

Test Report No. 7191046193-EEC12/01
dated 27 Nov 2012

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**FORMAL REPORT ON TESTING IN ACCORDANCE WITH
47 CFR FCC Parts 15B & C : 2011
OF A
COMPACT STEREO SYSTEM
[Model : SC-HC58]
[FCC ID : ACJ-11NR1301]**

TEST FACILITY TÜV SÜD PSB Pte Ltd,
Electrical & Electronics Centre (EEC), Product Services,
No. 1 Science Park Drive, Singapore 118221

FCC REG. NO. 99142 (3m and 10m Semi-Anechoic Chamber, Science Park)

IND. CANADA REG. NO. 2932I-1 (3m and 10m Semi-Anechoic Chamber, Science Park)

PREPARED FOR Panasonic AVC Networks Singapore
202 Bedok South Avenue 1
Singapore 469332
Tel : +65 6240 1891 Fax : +65 6245 8804

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PREPARED BY

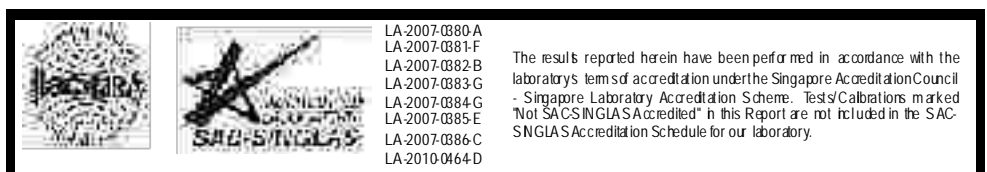
Quek Keng Huat
Higher Associate Engineer

APPROVED BY

Lim Cher Hwee
Assistant Vice President



Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221



Phone : + 65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223

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TEST SUMMARY

The product was tested in accordance with the customer's specifications.

Test Results Summary

Test Standard	Description	Pass / Fail
47 CFR FCC Part 15: 2011		
15.107(a), 15.207	Conducted Emissions	Pass
15.109(a), 15.205, 15.209	Radiated Emissions (Spurious Emissions inclusive Restricted Bands Requirement)	Pass
15.247(a)(2)	Spectrum Bandwidth (6dB Bandwidth Measurement)	Pass
15.247(b)(3)	Maximum Peak Power	Pass
15.247(d)	RF Conducted Spurious Emissions (Non-Restricted Bands)	Pass
15.247(d)	RF Conducted Spurious Emissions (Restricted Bands)	Pass
15.247(d)	Band Edge Compliance (Conducted)	Pass
15.247(d)	Band Edge Compliance (Radiated)	Pass
15.247(e)	Peak Power Spectral Density	Pass
1.1310	Maximum Permissible Exposure	Refer to page 380 for details



TEST SUMMARY

Notes

1. The channels as listed below, under the different configurations were tested for 802.11b WLAN.

Transmit Channel	Frequency (GHz)	Modulation	Data Rate
Channel 1 (Lower Channel)	2.412	DBPSK	1Mbps
Channel 6 (Middle Channel)	2.437	DBPSK	1Mbps
Channel 11 (Upper Channel)	2.462	DBPSK	1Mbps
Channel 1 (Lower Channel)	2.412	DQPSK	2Mbps
Channel 6 (Middle Channel)	2.437	DQPSK	2Mbps
Channel 11 (Upper Channel)	2.462	DQPSK	2Mbps
Channel 1 (Lower Channel)	2.412	CCK	11Mbps
Channel 6 (Middle Channel)	2.437	CCK	11Mbps
Channel 11 (Upper Channel)	2.462	CCK	11Mbps

2. The channels as listed below, under the different configurations were tested for 802.11g WLAN.

Transmit Channel	Frequency (GHz)	Modulation	Data Rate
Channel 1 (Lower Channel)	2.412	BP SK	9Mbps
Channel 6 (Middle Channel)	2.437	BP SK	9Mbps
Channel 11 (Upper Channel)	2.462	BP SK	9Mbps
Channel 1 (Lower Channel)	2.412	QPSK	18Mbps
Channel 6 (Middle Channel)	2.437	QPSK	18Mbps
Channel 11 (Upper Channel)	2.462	QPSK	18Mbps
Channel 1 (Lower Channel)	2.412	16QAM	36Mbps
Channel 6 (Middle Channel)	2.437	16QAM	36Mbps
Channel 11 (Upper Channel)	2.462	16QAM	36Mbps
Channel 1 (Lower Channel)	2.412	64QAM	54Mbps
Channel 6 (Middle Channel)	2.437	64QAM	54Mbps
Channel 11 (Upper Channel)	2.462	64QAM	54Mbps

3. The EUT is a Class B device when in non-transmitting state and meets the 47 CFR FCC Part 15B Class B requirements.
4. All test measurement procedures are according to ANSI C63.4: 2003 and KDB 558074 D01 DTS Measurement Guidance V02.
5. The maximum measured RF power of the Equipment Under Test is 16.99dBm.
6. The EUT comes with 802.11b/g WLAN (Airplay) and Bluetooth wireless functionality. But at any one time, only one wireless functionality can be turned on and not concurrently.
7. The measurement results for Bluetooth is documented in 7191046193-03.



TEST SUMMARY

Modifications

No modifications were made.





PRODUCT DESCRIPTION

Description : The Equipment Under Test (EUT) is a **COMPACT STEREO SYSTEM**

Applicant : Panasonic AVC Networks Singapore
202, Bedok South Avenue 1
Singapore 469332

Manufacturer : Panasonic Corporation
1-15 Matsuo-cho, Kadoma-shi,
Osaka 571-8504

Factor (ies) : Panasonic AVC Networks Johor Malaysia Sdn. Bhd.
IE PLO 460, Jalan Bandar,
81700 Pasir Gudang, Johor, Malaysia

Model Number : SC-HC58

FCC ID : ACJ-11NR1301

Serial Number : Nil

Microprocessor : MN101E F16KXW / ZXW Panasonic Semiconductor Devices Asia

Operating/ Transmitting Frequency : AM 520kHz-1630kHz
FM 87.5MHz-108MHz

Bluetooth
2.402GHz Low Channel
2.441GHz Mid Channel
2.480GHz High Channel

WLAN (Airplay)
2.412GHz - 2.462GHz

Clock / Oscillator Frequency : 128kHz (FM/AM), 16MHz (BT) & 24MHz

Modulation : DBPSK, DQPSK, CCK, BPSK, 16QAM, 64QAM

Antenna Gain : 2.0 dBi

Port / Connectors : Refer to manufacturer's User Manual

Rated Input Power : 120V ac 60Hz 38W

Accessories : Remote Control
FM/AM Antenna
AC Cord
AA size batteries



SUPPORTING EQUIPMENT DESCRIPTION

Equipment Description (Including Brand Name)	Model, Serial & FCC ID Number	Cable Description (List Length, Type & Purpose)
Fujitsu Lifebook Laptop	M/N: SH560 S/N: R0400172 FCC ID: DoC	1.80m unshielded power cable
Fujitsu Power Adapter	M/N: SEC100P3-19.0 S/N: 10301801D FCC ID: Nil	1.80m unshielded power cable
Dlink Wireless Router	M/N: DIR-655 S/N: F37H6B601146 FCC ID: KA21R655B1 IC ID: 4216A-IR655B1	1.80m unshielded power cable
Dlink Adapter	M/N: CG2412-E S/N: LF2R00112103067 FCC ID: DoC	1.80m unshielded power cable



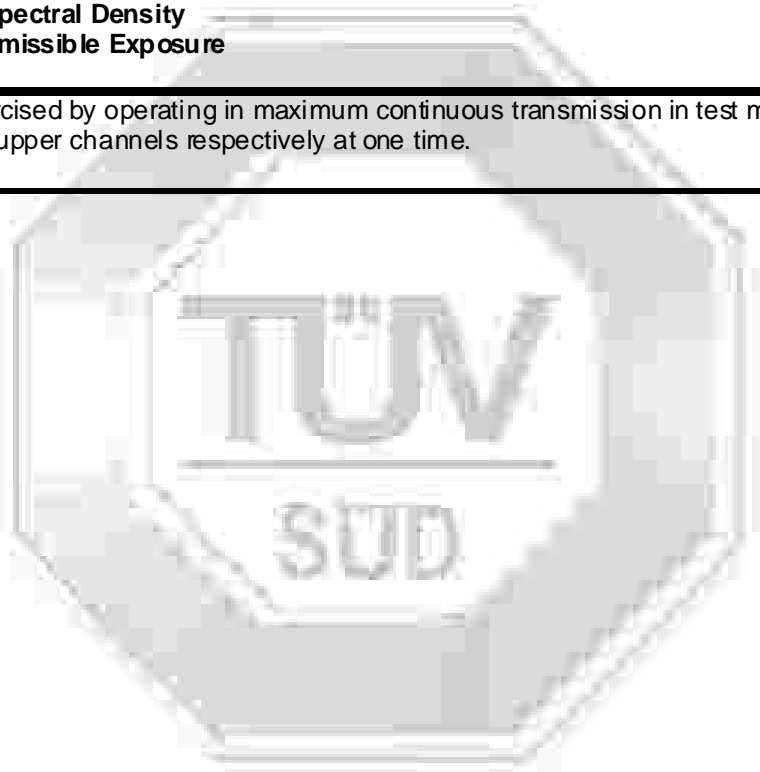


EUT OPERATING CONDITIONS

47 CFR FCC Part 15

1. Conducted Emissions
2. Radiated Emissions (Spurious Emissions inclusive Restricted Bands Requirement)
3. Spectrum Bandwidth (6dB Bandwidth Measurement)
4. Maximum Peak Power
5. RF Conducted Spurious Emissions Emission (Non-Restricted Bands)
6. RF Conducted Spurious Emissions Emission (Restricted Bands)
7. Band Edge Compliance (Conducted)
8. Band Edge Compliance (Radiated)
9. Peak Power Spectral Density
10. Maximum Permissible Exposure

The EUT was exercised by operating in maximum continuous transmission in test mode, i.e transmitting at lower, middle and upper channels respectively at one time.





CONDUCTED EMISSION TEST

47 CFR FCC Parts 15.107(a) and 15.207 Conducted Emission Limits

Frequency Range (MHz)	Limit Values (dBµV)	
	Quasi-peak (Q-P)	Average (AV)
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5.0	56	46
5.0 - 30.0	60	50

* Decreasing linearly with the logarithm of the frequency

47 CFR FCC Parts 15.107(a) and 15.207 Conducted Emission Test Instrumentation

Instrument	Model	S/No	Cal Due Date
R&S Test Receiver (9kHz-7GHz) - ESI3	ESIB7	100015	25 Jul 2013
Agilent EMC Analyzer-SA7	E7403A	US41160167	28 May 2013
R&S LISN - LISN1 (for supporting)	ESH2-Z5	862060/017	27 Sep 2013
EMCO LISN (for supporting) - LISN6	3825/2	9309-2127	Output monitored





CONDUCTED EMISSION TEST

47 CFR FCC Parts 15.107(a) and 15.207 Conducted Emission Test Setup

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.
2. The power supply for the EUT was fed through a 50 μ 750 μ H EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipment were powered separately from another LISN.

47 CFR FCC Parts 15.107(a) and 15.207 Conducted Emission Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 9kHz. Both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line.

Sample Calculation Example

At 20 MHz	Q-P limit = 60.0 dB μ V
Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.2 dB	
Q-P reading obtained directly from EMI Receiver = 40.0 dB μ V (Calibrated for system losses)	
Therefore, Q-P margin = 60.0 - 40.0 = 20.0	i.e. 20.0 dB below Q-P limit

CONDUCTED EMISSION TEST



Conducted Emissions Test Setup (Front View)



Conducted Emissions Test Setup (Rear View)



CONDUCTED EMISSION TEST

47 CFR FCC Parts 15.107(a) and 15.207 Conducted Emission Results

Test Input Power	110V 60Hz	Temperature	15°C
Line Under Test	AC Mains	Relative Humidity	53%
Test Mode	Airplay Mode	Atmospheric Pressure	1030mbar
Antenna	1 (Worst Antenna)	Tested By	Lim Kay Tak

Frequency (MHz)	Q-P Value (dBuV)	Q-P Limit (dBuV)	Q-P Margin (dB)	AV Value (dBuV)	AV Limit (dBuV)	AV Margin (dB)	Line	Channel
0.1950	52.1	63.8	11.7	38.0	53.8	15.8	Live	6
0.2482	46.3	61.8	15.5	34.4	51.8	17.4	Neutral	6
0.3833	28.9	58.2	29.3	27.0	48.2	21.2	Live	6
0.4633	33.7	56.6	22.9	19.1	46.6	27.5	Neutral	6
0.6591	26.2	56.0	29.8	11.8	46.0	34.2	Live	6
12.6783	43.5	60.0	16.5	30.3	50.0	19.7	Neutral	6

Notes

- All possible modes of operation were investigated from 150kHz to 30MHz. Only the worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
- A "positive" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency. Conversely, a "negative" margin indicates a FAIL.
- EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings:
9kHz - 30MHz
RBW: 9kHz VBW: 30kHz
- Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2, in the range 9kHz – 30MHz is ±2.2dB.



RADIATED EMISSION TEST

47 CFR FCC Part 15.205 Restricted Bands

MHz		MHz		MHz		GHz	
0.090	- 0.110	16.42	- 16.423	399.9	- 410	4.5	- 5.15
0.495	- 0.505	16.69475	- 16.69525	608	- 614	5.35	- 5.46
2.1735	- 2.1905	16.80425	- 16.80475	960	- 1240	7.25	- 7.75
4.125	- 4.128	25.5	- 25.67	1300	- 1427	8.025	- 8.5
4.17725	- 4.17775	37.5	- 38.25	1435	- 1626.5	9.0	- 9.2
4.20725	- 4.20775	73	- 74.6	1645.5	- 1646.5	9.3	- 9.5
6.215	- 6.218	74.8	- 75.2	1660	- 1710	10.6	- 12.7
6.26775	- 6.26825	108	- 121.94	1718.8	- 1722.2	13.25	- 13.4
6.31175	- 6.31225	123	- 138	2200	- 2300	14.47	- 14.5
8.291	- 8.294	149.9	- 150.05	2310	- 2390	15.35	- 16.2
8.362	- 8.366	156.52475	- 156.52525	2483.5	- 2500	17.7	- 21.4
8.37625	- 8.38675	156.7	- 156.9	2690	- 2900	22.01	- 23.12
8.41425	- 8.41475	162.0125	- 167.17	3260	- 3267	23.6	- 24.0
12.29	- 12.293	167.72	- 173.2	3332	- 3339	31.2	- 31.8
12.51975	- 12.52025	240	- 285	3345.8	- 3358	36.43	- 36.5
12.57675	- 12.57725	322	- 335.4	3600	- 4400		Above 38.6
13.36	- 13.41						

47 CFR FCC Parts 15.109(a) and 15.209 Radiated Emission Limits

Frequency Range (MHz)	Quasi-Peak Limit Values (dBµV/m) @ 3m
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960	54.0*

* A bove 1GHz, average detector was used. A peak limit of 20dB above the average limit does apply.

47 CFR FCC Parts 15.109(a) and 15.209 Radiated Emission Test Instrumentation

Instrument	Model	S/No	Cal Due Date
R&S Test Receiver – ESI1	ESI40	100010	05 Jun 2013
Schaffner Bilog Antenna – (30MHz-2GHz) BL3 (Ref)	CBL6112B	2549	19 Jan 2013
EMCO Horn Antenna (1GHz-18GHz) – H14 (Ref)	3115	0003-6087	12 Jul 2013
ETS Horn Antenna (18GHz-40GHz) (Ref)	3116	0004-2474	17 Jul 2013
Tesq Preamplifier (9kHz-1GHz)	LNA6901	72267	22 Jun 2013
Agilent Preamplifier (1GHz-26.5GHz) (PA18)	8449D	3008A02305	07 Oct 2013
Micro-tronics Bandstop filter	BRM50701-02	007	13 Aug 2013
EMCO Loop Antenna	6502	00134413	31 May 2013



RADIATED EMISSION TEST

47 CFR FCC Parts 15.109(a) and 15.209 Radiated Emission Test Setup

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.

47 CFR FCC Parts 15.109(a) and 15.209 Radiated Emission Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A prescan was carried out to pick the worst emission frequencies from the EUT. For EUT which is a portable device, the prescan was carried out by rotating the EUT through three orthogonal axes to determine which altitude and equipment arrangement produces such emissions.
3. The test was carried out at the selected frequency points obtained from the prescan in step 2. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
 - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
4. A Quasi-peak measurement was made for that frequency point if it was less than or equal to 1GHz. For frequency point that above 1GHz, both Peak and Average measurements were carried out.
5. Steps 3 and 4 were repeated for the next frequency point, until all selected frequency points were measured.
6. The frequency range covered was from 30MHz to 10th harmonics of the EUT fundamental frequency, using the Bi-log antenna for frequencies from 30MHz up to 1GHz, and the Horn antenna above 1GHz.

Sample Calculation Example

At 300 MHz	Q-P limit (Class B) = 46.0 dB μ V/m
Log-periodic antenna factor & cable loss at 300 MHz = 18.5 dB	
Q-P reading obtained directly from EMI Receiver = 40.0 dB μ V/m (Calibrated level including antenna factors & cable losses)	
Therefore, Q-P margin = 46.0 - 40.0 = 6.0	i.e. 6.0 dB below Q-P limit

RADIATED EMISSION TEST



Radiated Emissions Test Setup (Front View)



Radiated Emissions Test Setup (Rear View)



RADIATED EMISSION TEST

47 CFR FCC Parts 15.109(a), 15.205 and 15.209 Radiated Emission Results

Test Input Power	110V 60Hz	Temperature	24°C
Test Distance	3m	Relative Humidity	60%
Test Mode	Airplay Mode	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein, Lim Kay Tak

Spurious Emissions ranging from 9kHz – 30MHz

Frequency (MHz)	Q-P Value (dBµV/m)	Q-P Limit (dBµV/m)	Q-P Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
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Spurious Emissions ranging from 30MHz – 1GHz

Frequency (MHz)	Q-P Value (dBµV/m)	Q-P Limit (dBµV/m)	Q-P Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
183.4580	32.6	43.5	10.9	107	29	32.6	6
280.3900	32.7	46.0	13.3	108	323	32.7	6
335.9880	38.8	46.0	7.2	101	1	38.8	6
479.9970	35.3	46.0	10.7	102	232	35.3	6
654.7810	36.1	46.0	9.9	99	330	36.1	6
745.0860	38.7	46.0	7.3	99	24	38.7	6

Spurious Emissions above 1GHz – 25GHz

Freq (GHz)	Peak Value (dBµV/m)	Peak Limit (dBµV/m)	Peak Margin (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Ch
1.2420	40.7	74.0	33.3	27.6	54.0	26.4	100	188	H	1
2.1364	46.8	74.0	27.2	33.0	54.0	21.0	136	21	H	1
2.9200	49.3	74.0	24.7	35.7	54.0	18.3	100	0	V	1
5.0925	56.0	74.0	18.0	42.9	54.0	11.1	241	7	H	1
5.3337	54.5	74.0	19.5	41.1	54.0	12.9	332	359	V	1
5.5782	57.6	74.0	16.4	44.0	54.0	10.0	130	0	V	1

Spurious Emissions above 1GHz – 25GHz

Freq (GHz)	Peak Value (dBµV/m)	Peak Limit (dBµV/m)	Peak Margin (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Ch
2.0117	47.1	74.0	26.9	32.5	54.0	21.5	100	72	V	7
2.9092	49.5	74.0	24.5	35.9	54.0	18.1	102	199	H	7
3.8677	50.2	74.0	23.8	35.9	54.0	18.1	120	45	V	7
4.8683	61.6	74.0	12.4	38.3	54.0	15.7	312	0	V	7
5.8818	56.3	74.0	17.7	43.1	54.0	10.9	100	359	H	7
6.9486	61.2	74.0	12.8	47.4	54.0	6.6	161	3	H	7



RADIATED EMISSION TEST

47 CFR FCC Parts 15.109(a), 15.205 and 15.209 Radiated Emission Results

Test Input Power	110V 60Hz	Temperature	24°C
Test Distance	3m	Relative Humidity	60%
Test Mode	Airplay Mode	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein, Lim Kay Tak

Spurious Emissions above 1GHz – 25GHz

Freq (GHz)	Peak Value (dBµV/m)	Peak Limit (dBµV/m)	Peak Margin (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Ch
1.6776	42.6	74.0	31.4	28.5	54.0	25.5	230	30	V	11
2.9062	49.1	74.0	24.9	35.9	54.0	18.1	100	0	H	11
4.0450	50.4	74.0	23.6	35.9	54.0	18.1	127	0	V	11
5.0883	57.0	74.0	17.0	43.0	54.0	11.0	100	248	V	11
5.5679	58.1	74.0	15.9	44.3	54.0	9.7	320	177	H	11
6.9477	61.2	74.0	12.8	47.2	54.0	6.8	100	7	V	11

Notes

- All possible modes of operation were investigated. Only the worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
- “-” indicates no emissions were found and shows compliance to the limits.
- Quasi-peak measurement was used for frequency measurement up to 1GHz. Average and peak measurements were used for emissions above 1GHz. The average measurement was done by averaging over a complete cycle of the pulse train, including the blanking interval as the pulse train duration does not exceed 0.1 second.
- A "positive" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency. Conversely, a "negative" margin indicates a FAIL.
- EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings:
30MHz - 1GHz
 RBW: 120kHz VBW: 1MHz
>1GHz
 RBW: 1MHz VBW: 1MHz
- The upper frequency of radiated emission investigations was according to requirements stated in Section 15.33(a) for intentional radiators & Section 15.33(b) for unintentional radiators.
- The channel in the table refers to the transmit channel of the EUT.
- Radiated Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2, in the range 30MHz – 25GHz is ±4.0dB.



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

47 CFR FCC Part 15.247(a)(2) Spectrum Bandwidth (6dB Bandwidth Measurement) Limits

The EUT shows compliance to the requirements of this section, which states that the minimum bandwidth of the EUT employing digital modulation techniques shall be at least 500kHz.

47 CFR FCC Part 15.247(a)(2) Spectrum Bandwidth (6dB Bandwidth Measurement) Test Instrumentation

Instrument	Model	S/No	Cal Due Date
Agilent Spectrum Analyzer	E4440A	MY45304764	20 Jun 2013

47 CFR FCC Part 15.247(a)(2) Spectrum Bandwidth (6dB Bandwidth Measurement) Test Setup

1. The EUT and supporting equipment were set up as shown in the setup photo.
2. The power supply for the EUT was connected to a filtered mains.
3. The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
4. The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to the following:
RBW = 1% - 5% of emission bandwidth (EBW)
VBW = 3 times RBW
5. All other supporting equipment were powered separately from another filtered mains.

47 CFR FCC Part 15.247(a)(2) Spectrum Bandwidth (6dB Bandwidth Measurement) Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode at lower channel with specified modulation and data rate.
2. The center frequency of the spectrum analyser was set to the transmitting frequency with the frequency span wide enough to capture the 6dB bandwidth of the transmitting frequency.
3. The spectrum analyser was set to max hold to capture the transmitting frequency. The signal capturing was continuous until no further changes were observed.
4. The peak of the transmitting frequency was detected with the marker peak function of the spectrum analyser. The frequencies below the 6dB peak frequency at lower (f_L) and upper (f_H) sides of the transmitting frequency were marked and measured by using the marker-delta function of the spectrum analyser.
5. The 6dB bandwidth of the transmitting frequency is the frequency difference between the marked lower and upper frequencies, $|f_H - f_L|$.
6. Repeat steps 1 to 5 with all possible modulations and data rates.
7. The steps 2 to 6 were repeated with the transmitting frequency was set to middle and upper channel respectively.

SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST



Spectrum Bandwidth (6dB Bandwidth Measurement) Test Setup





SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

47 CFR FCC Part 15.247(a)(2) Spectrum Bandwidth (6dB Bandwidth Measurement) Results

Test Input Power	110V 60Hz	Temperature	21°C
Attached Plots	1 – 21 (6dB Bandwidth)	Relative Humidity	56%
Antenna	1	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein

Antenna 1

Channel	Channel Frequency (GHz)	6dB Bandwidth (MHz)	Modulation @ Data Rate
1 (<i>bwerch</i>)	2.412	12.750	DBPSK @ 1Mbps
		12.880	DQPSK @ 2Mbps
		12.750	CCK @ 11Mbps
		16.750	BP SK @ 9Mbps
		16.750	QPSK @ 18Mbps
		16.750	16QAM @ 36Mbps
		16.750	64QAM @ 54Mbps
6 (<i>mid ch</i>)	2.437	12.880	DBPSK @ 1Mbps
		13.120	DQPSK @ 2Mbps
		12.750	CCK @ 11Mbps
		16.500	BP SK @ 9Mbps
		16.750	QPSK @ 18Mbps
		16.750	16QAM @ 36Mbps
11 (<i>upper ch</i>)	2.462	16.750	64QAM @ 54Mbps
		12.620	DBPSK @ 1Mbps
		13.120	DQPSK @ 2Mbps
		13.380	CCK @ 11Mbps
		16.750	BP SK @ 9Mbps
		16.750	QPSK @ 18Mbps
		16.750	16QAM @ 36Mbps
	16.620	64QAM @ 54Mbps	



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

47 CFR FCC Part 15.247(a)(2) Spectrum Bandwidth (6dB Bandwidth Measurement) Results

Test Input Power	110V 60Hz	Temperature	24°C
Attached Plots	22 – 42 (6dB Bandwidth)	Relative Humidity	60%
Antenna	2	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein

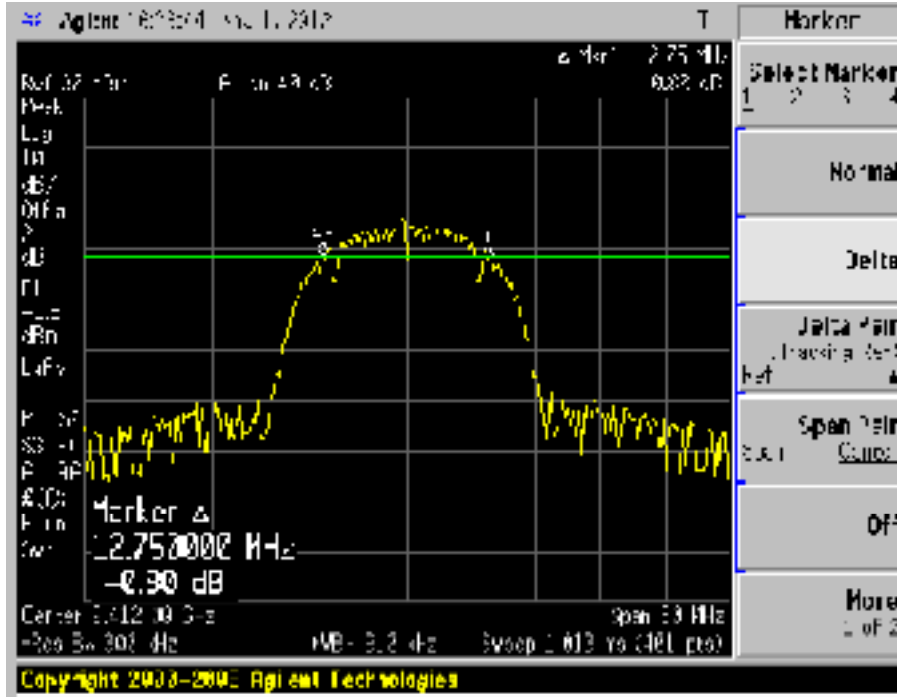
Antenna 2

Channel	Channel Frequency (GHz)	6dB Bandwidth (MHz)	Modulation @ Data Rate
1 (<i>bwerch</i>)	2.412	12.620	DBPSK @ 1Mbps
		12.750	DQPSK @ 2Mbps
		12.750	CCK @ 11Mbps
		16.620	BP SK @ 9Mbps
		16.500	QPSK @ 18Mbps
		16.620	16QAM @ 36Mbps
		16.750	64QAM @ 54Mbps
6 (<i>mid ch</i>)	2.437	13.000	DBPSK @ 1Mbps
		12.750	DQPSK @ 2Mbps
		12.750	CCK @ 11Mbps
		16.500	BP SK @ 9Mbps
		16.500	QPSK @ 18Mbps
		16.620	16QAM @ 36Mbps
		16.620	64QAM @ 54Mbps
11 (<i>upper ch</i>)	2.462	13.000	DBPSK @ 1Mbps
		12.750	DQPSK @ 2Mbps
		12.750	CCK @ 11Mbps
		16.750	BP SK @ 9Mbps
		16.750	QPSK @ 18Mbps
		16.750	16QAM @ 36Mbps
		16.750	64QAM @ 54Mbps

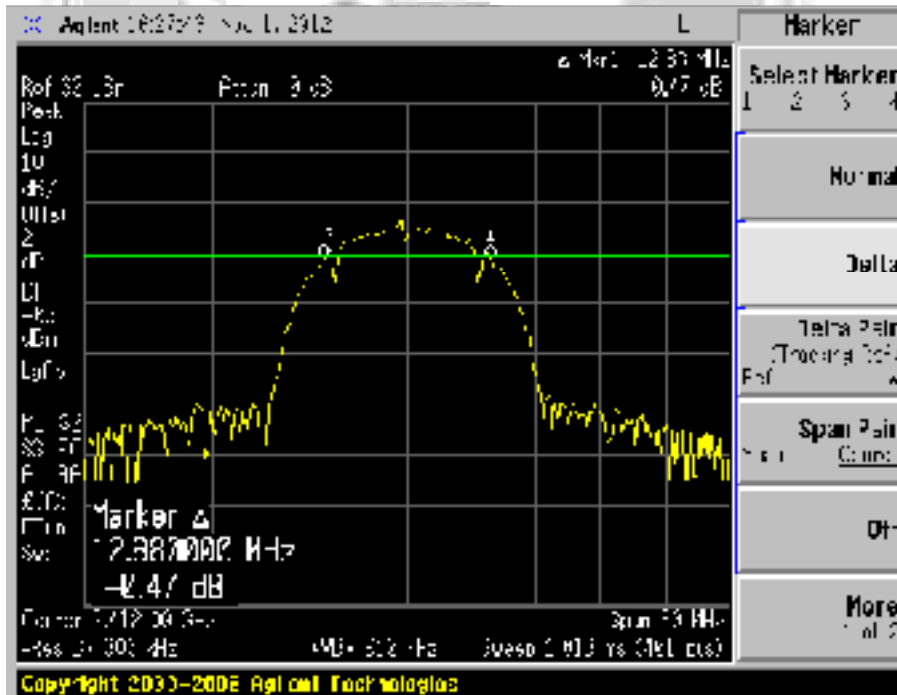


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 1 - Channel 1 (lower ch) @ DBPSK 1Mbps

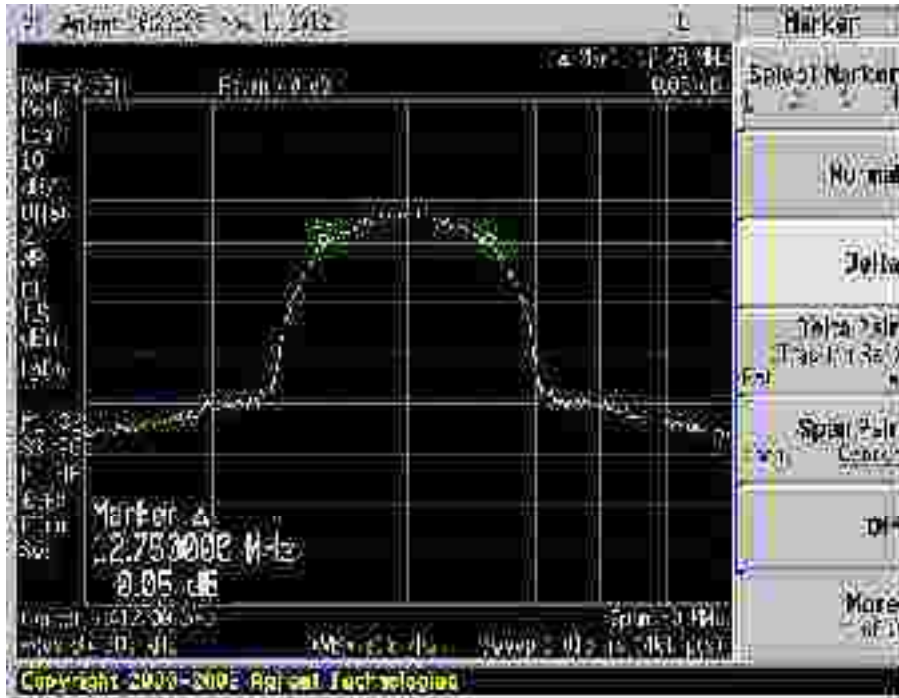


Plot 2 - Channel 1 (lower ch) @ DQPSK 2Mbps

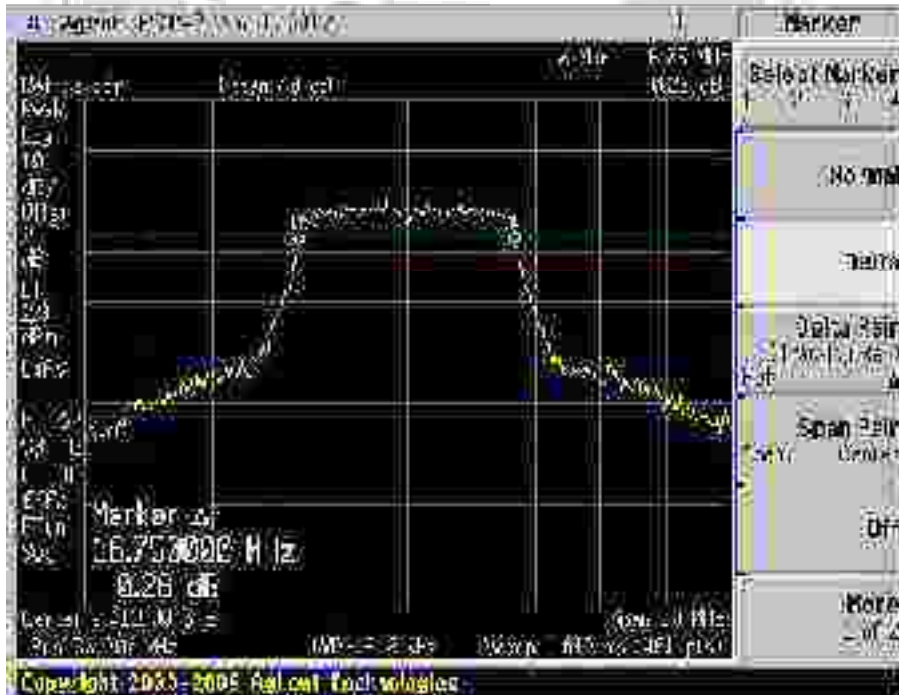


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 3 - Channel 1 (*lower ch*) @CCK 11Mbps

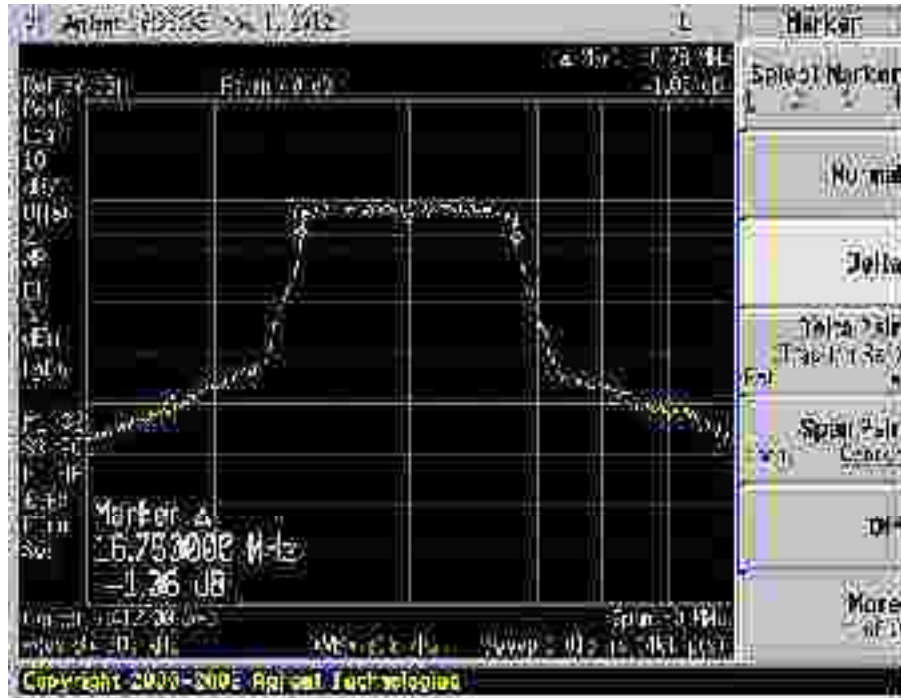


Plot 4 - Channel 1 (*lower ch*) @BPSK 9Mbps

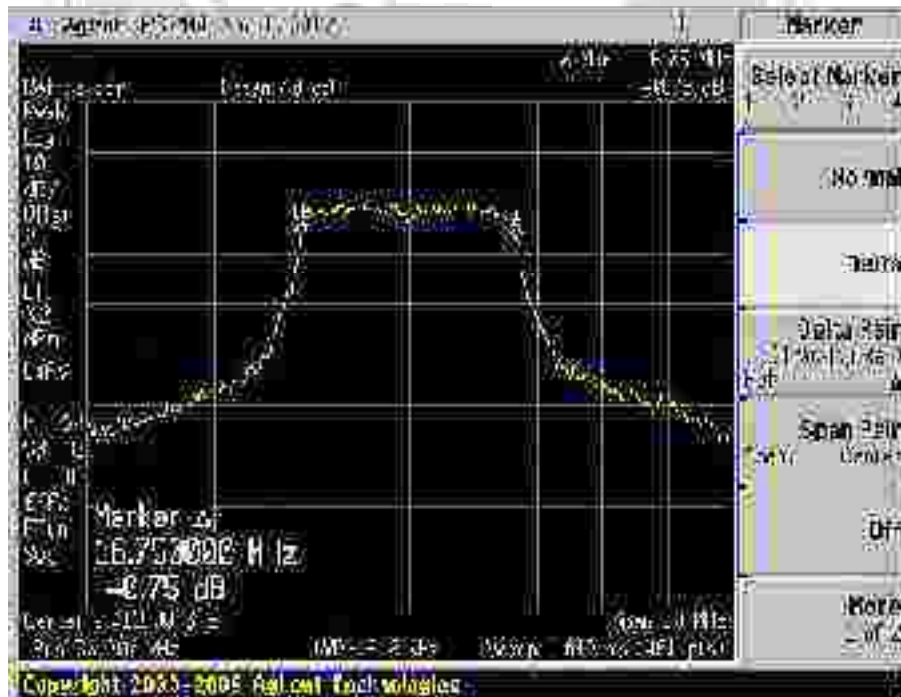


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 5 - Channel 1 (lower ch) @ QPSK 18Mbps

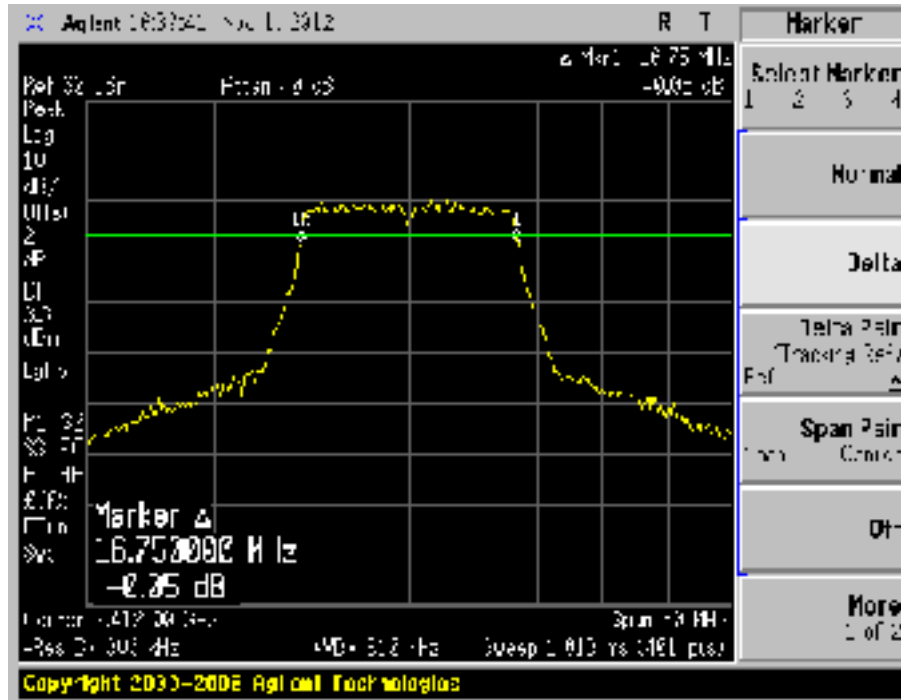


Plot 6 - Channel 1 (lower ch) @ 16QAM 18Mbps



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



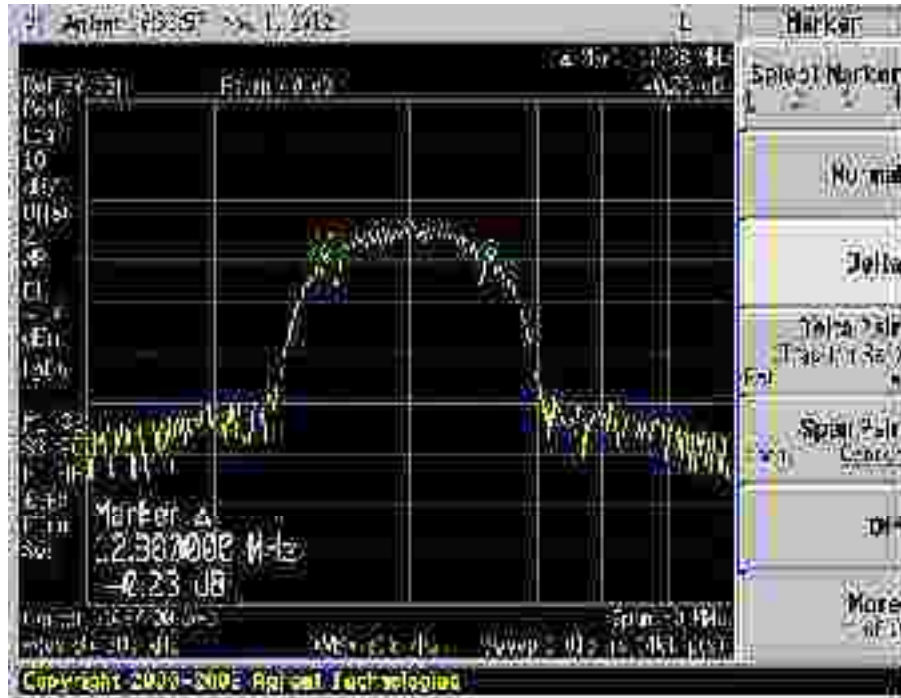
Plot 7 - Channel 1 (lower ch) @ 64QAM 54Mbps



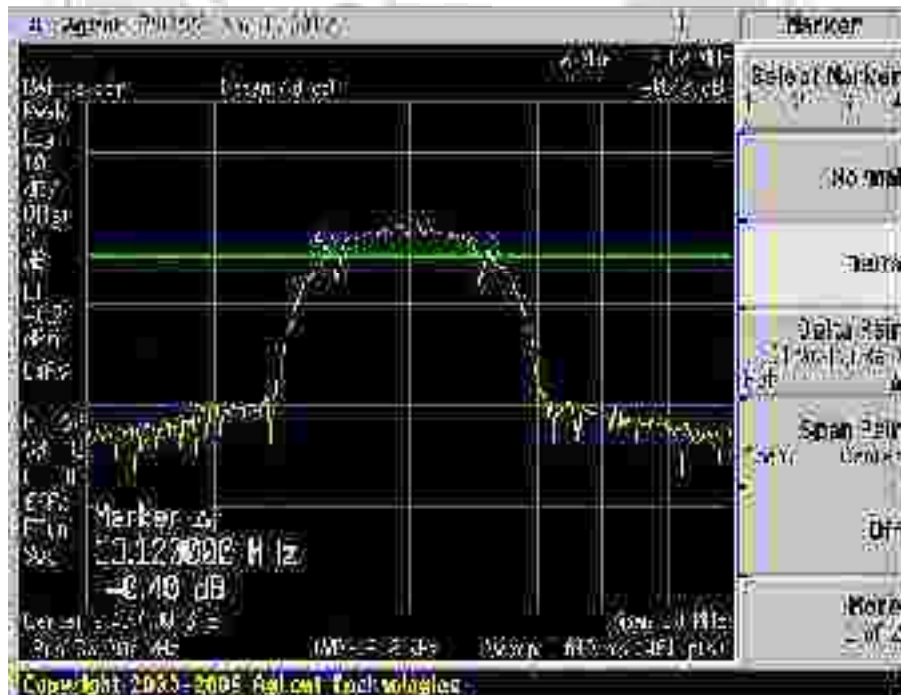


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 8 - Channel 6 (middle ch) @ DQPSK 1Mbps

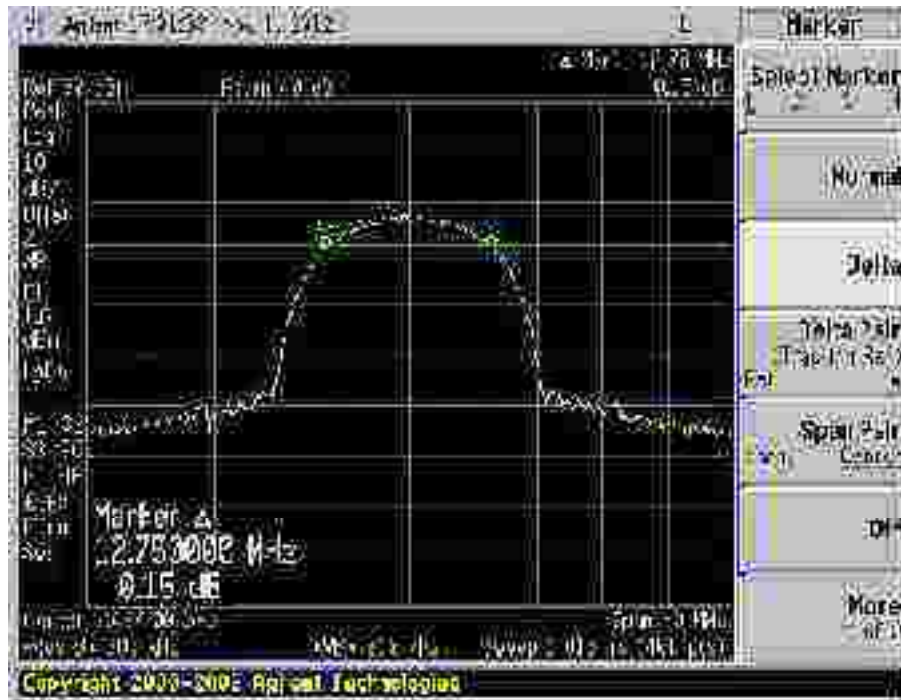


Plot 9 - Channel 6 (middle ch) @ DQPSK 2Mbps

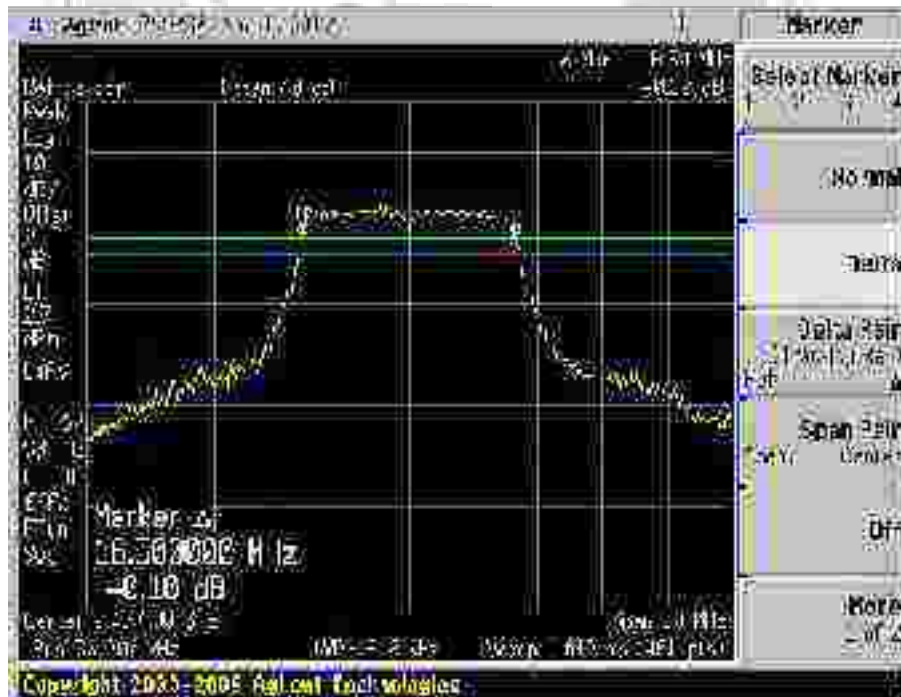


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 10 - Channel 6 (middle ch) @ CCK 11Mbps

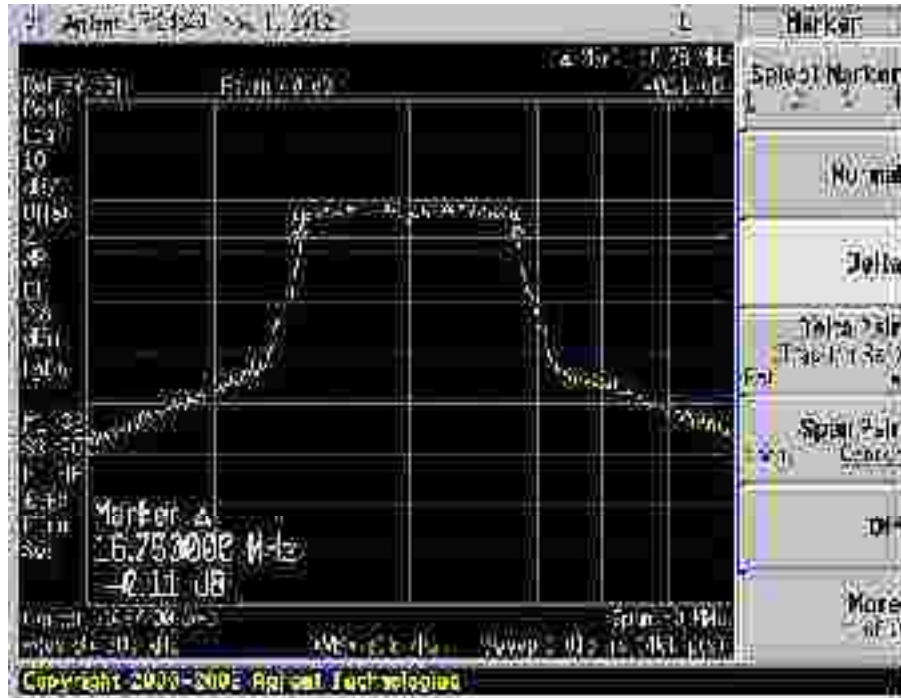


Plot 11 - Channel 6 (middle ch) @ BPSK 9Mbps

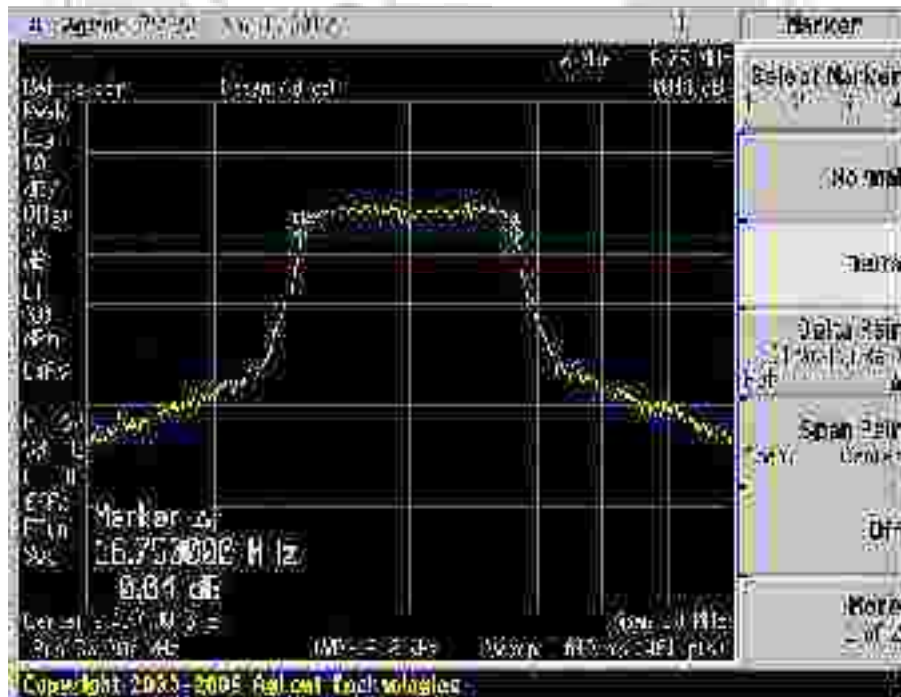


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 12 - Channel 6 (middle ch) @ QPSK 18Mbps

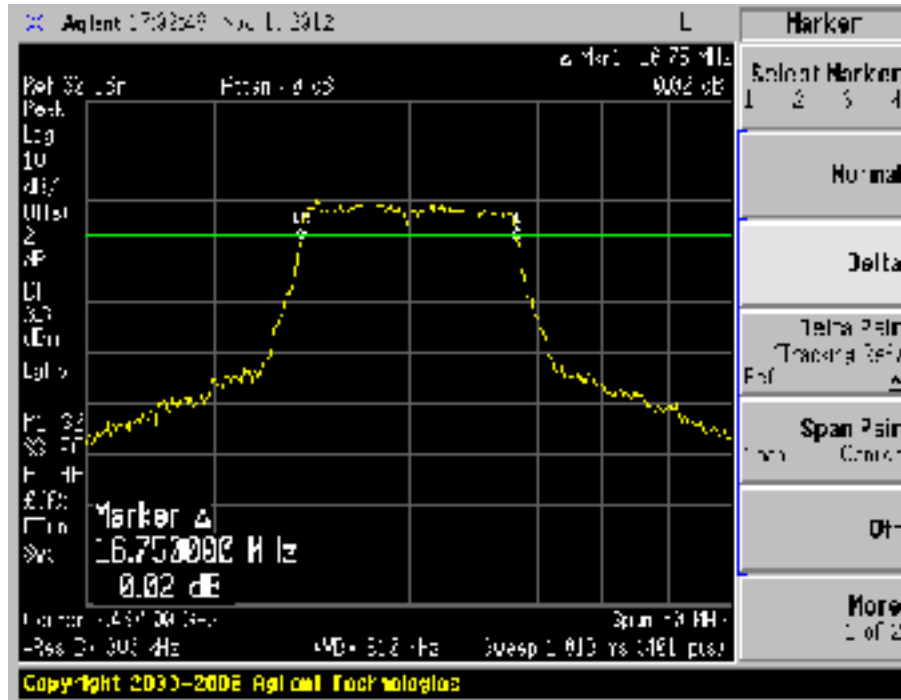


Plot 13 - Channel 6 (middle ch) @ 16QAM 36Mbps



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



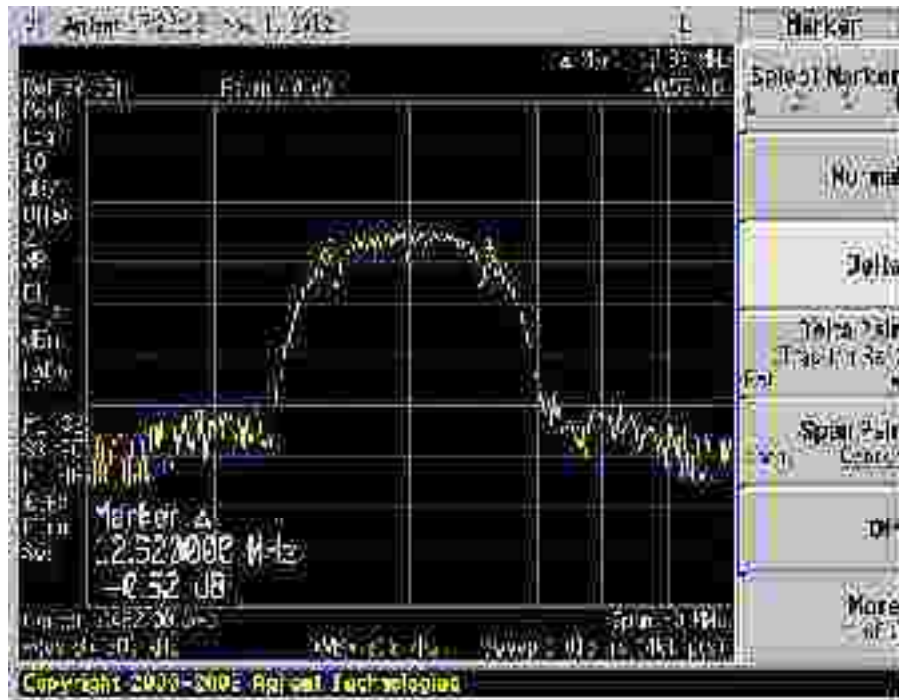
Plot 14 - Channel 6 (middle ch) @ 64QAM 54Mbps



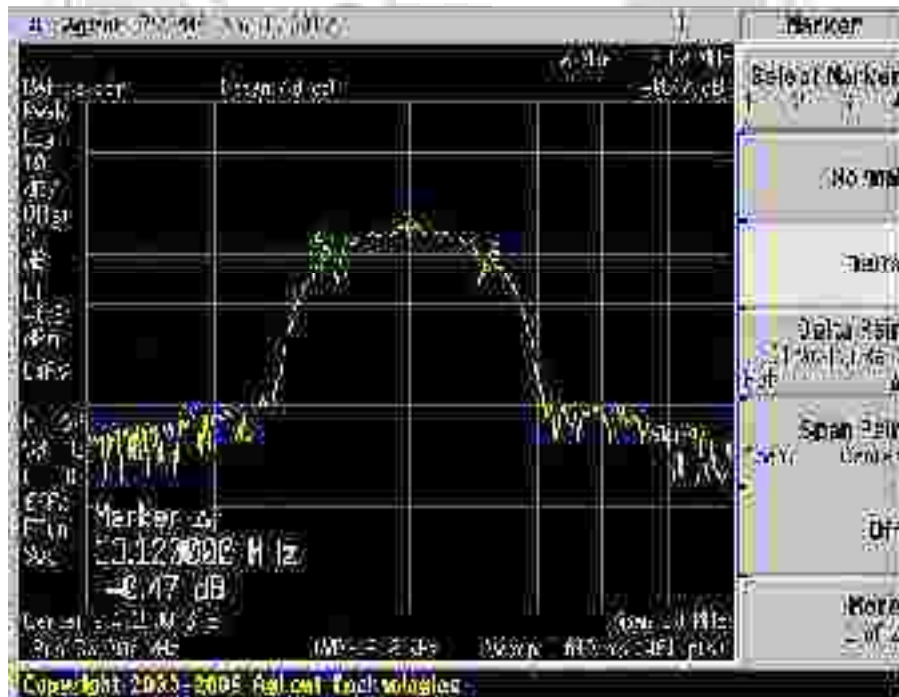


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 15 - Channel 11 (*upper ch*) @ DBPSK 1Mbps

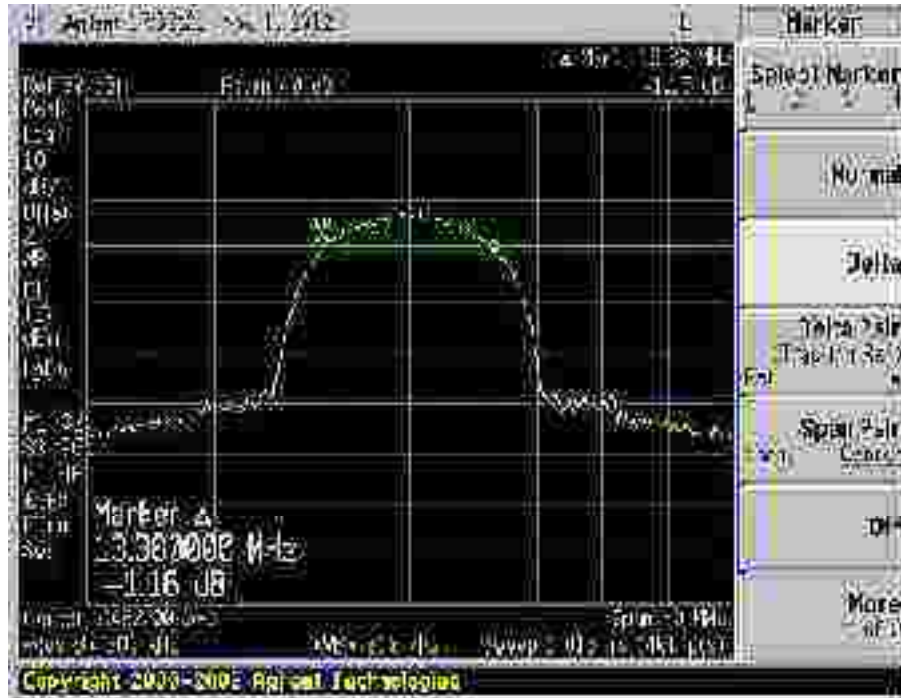


Plot 16 - Channel 11 (*upper ch*) @ DQPSK 2Mbps



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 17 - Channel 11 (upper ch) @ CCK 11Mbps

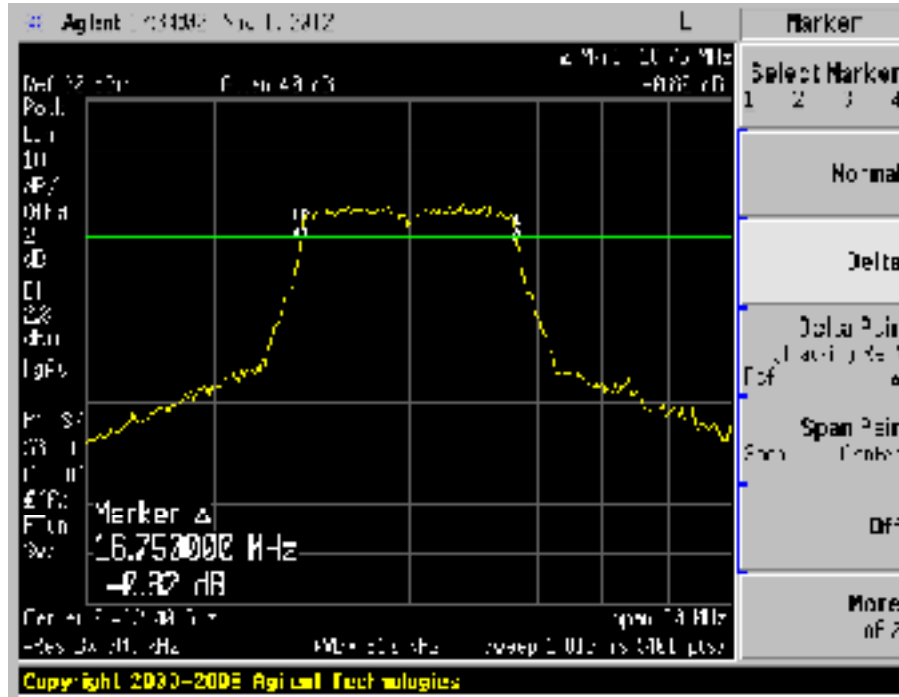


Plot 18 - Channel 11 (upper ch) @ BPSK 9Mbps

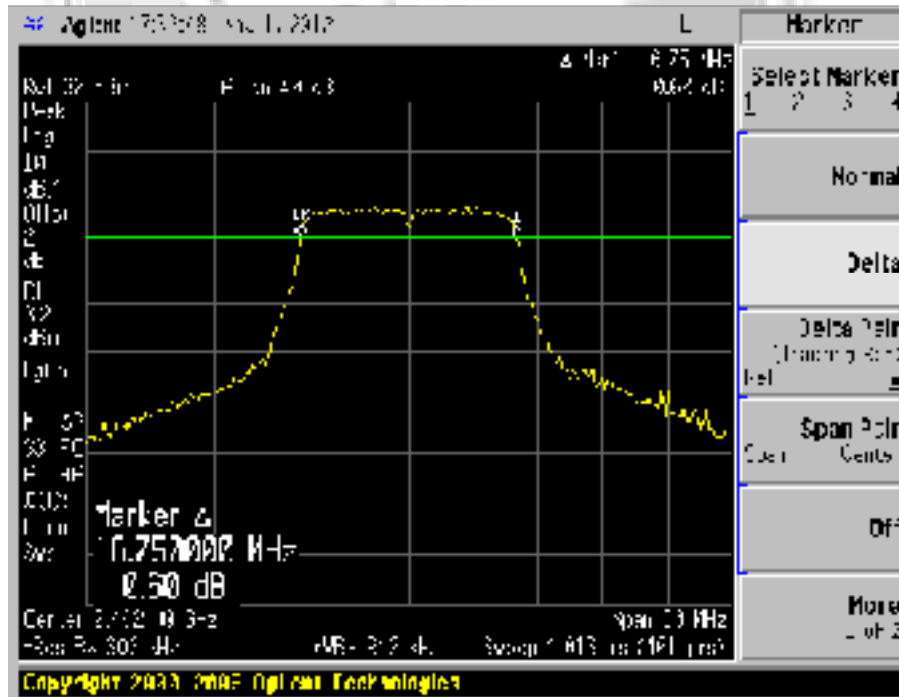


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)



Plot 19 - Channel 11 (upper ch) @ QPSK 18Mbps

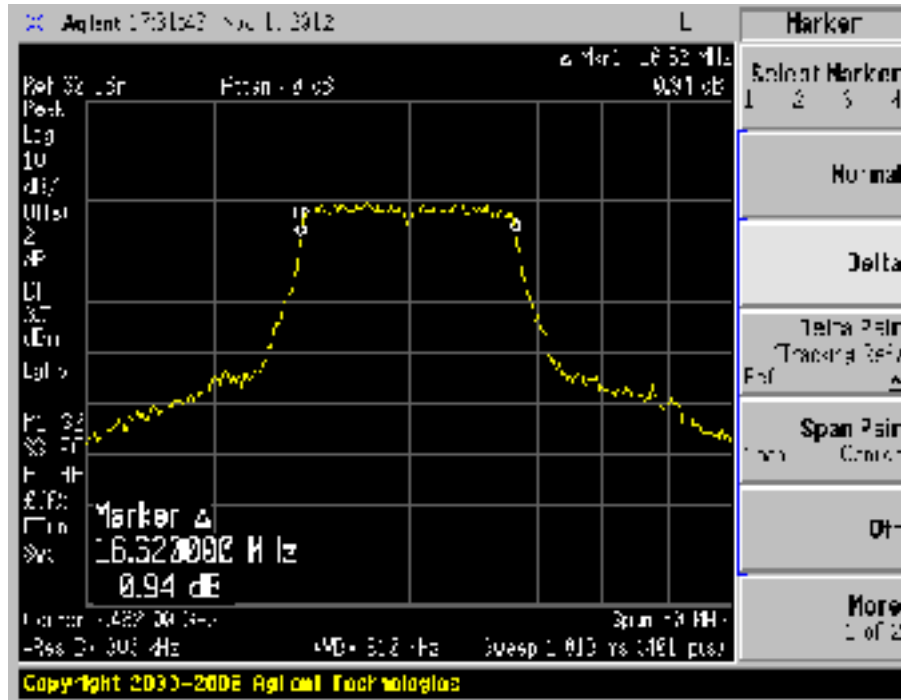


Plot 20 - Channel 11 (upper ch) @ 16QAM 36Mbps



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 1)

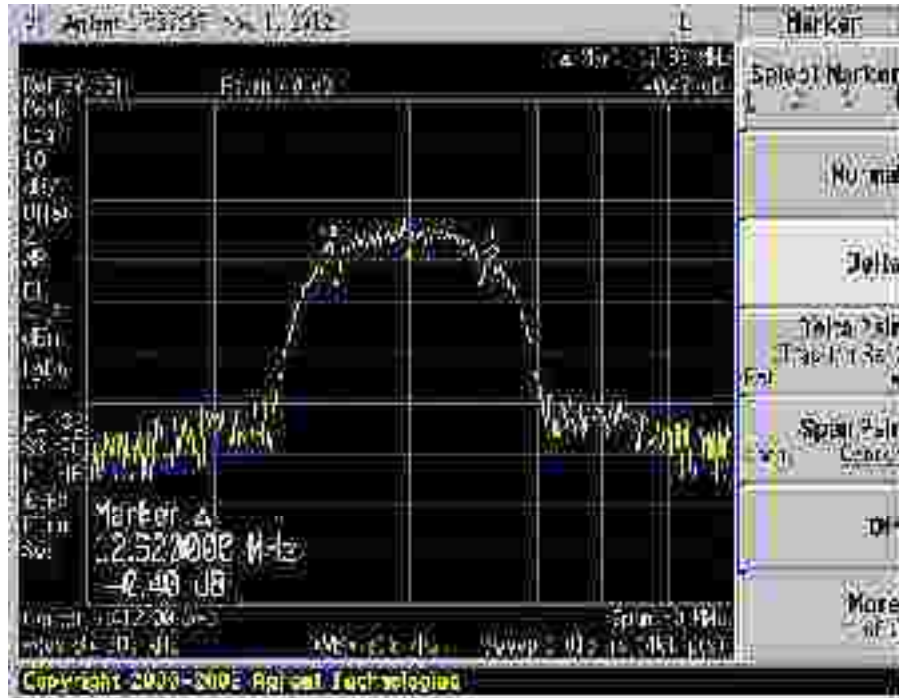


Plot 21 - Channel 11 (upper ch) @ 64QAM 54Mbps

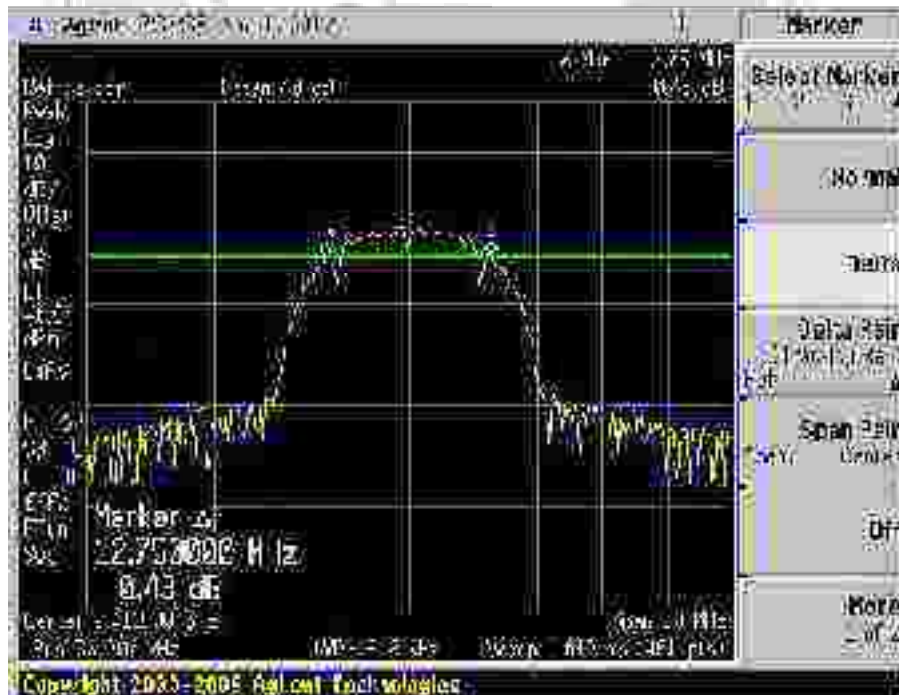


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 22 - Channel 1 (lower ch) @ DBPSK 1Mbps

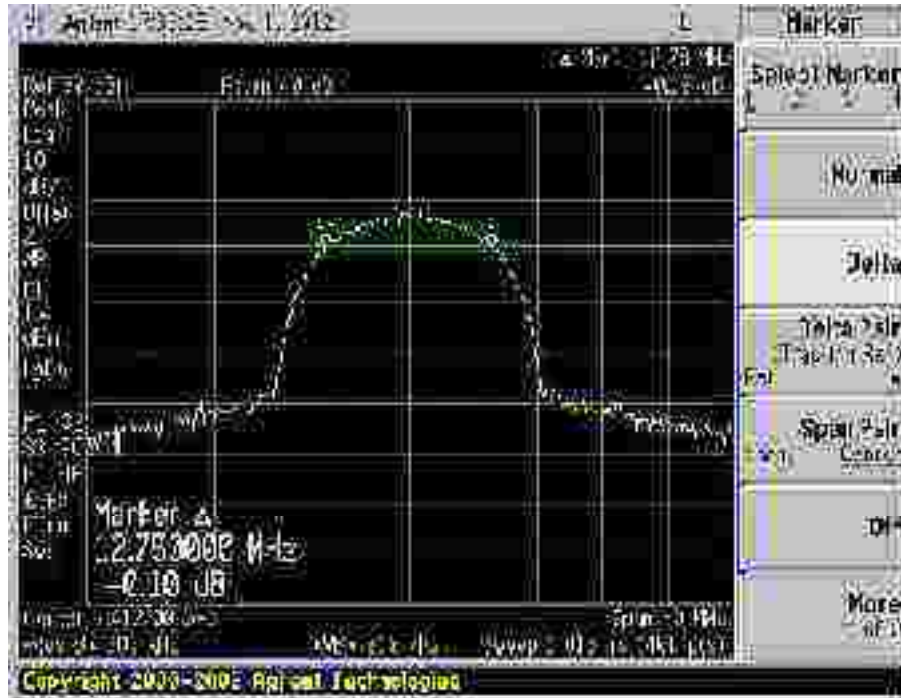


Plot 23 - Channel 1 (lower ch) @ DQPSK 2Mbps

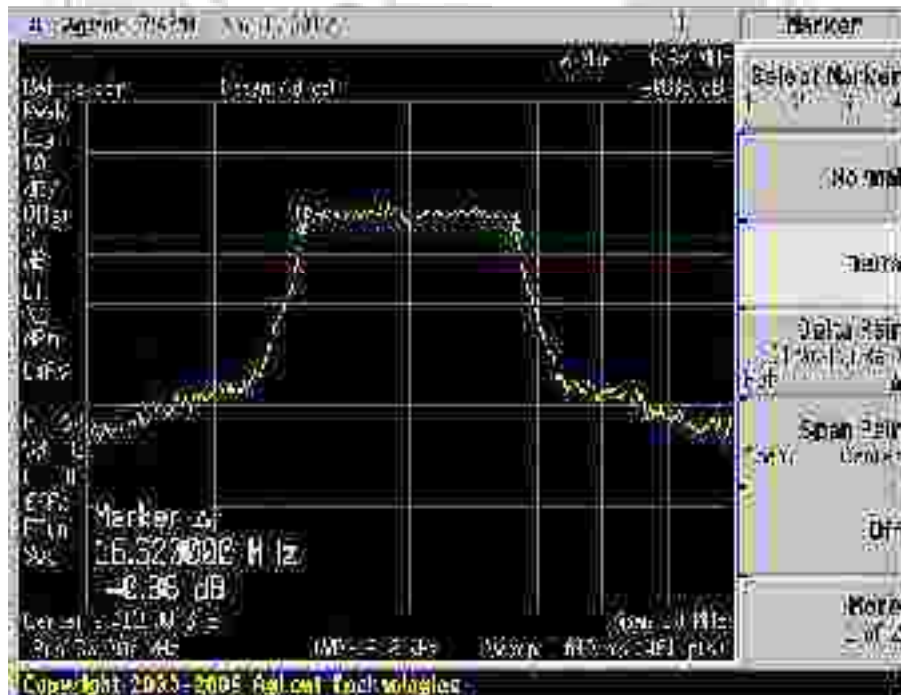


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 24 - Channel 1 (lower ch) @ CCK 11Mbps

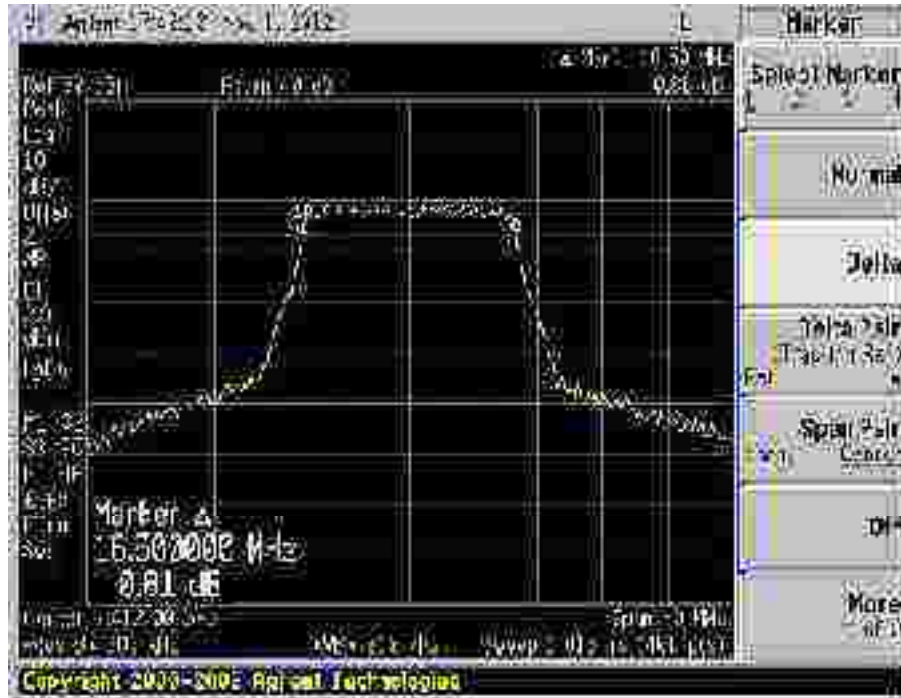


Plot 25 - Channel 1 (lower ch) @ BPSK 9Mbps

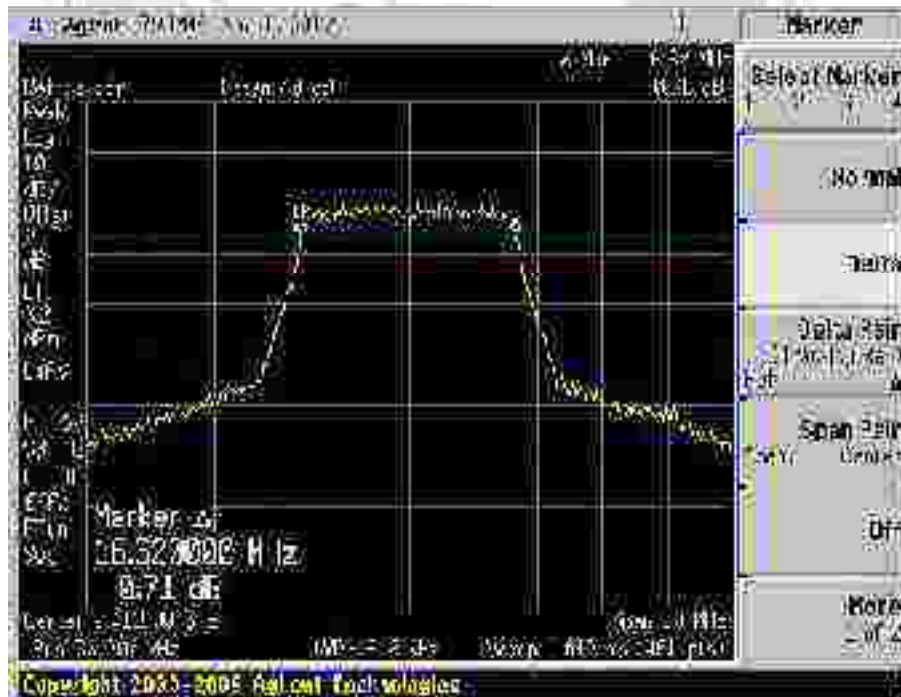


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 26 - Channel 1 (lower ch) @ QPSK 18Mbps

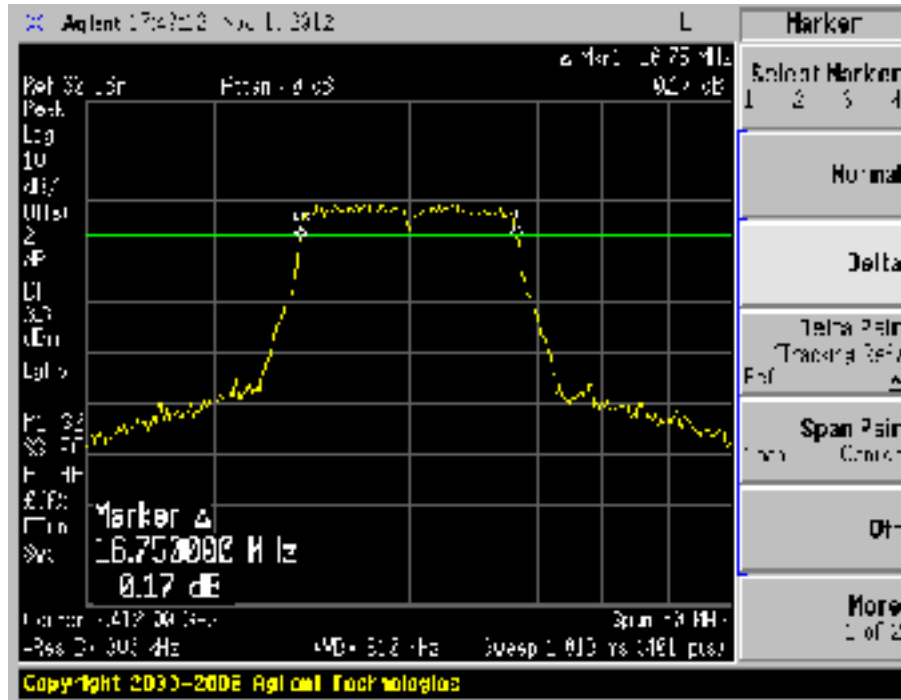


Plot 27 - Channel 1 (lower ch) @ 16QAM 18Mbps

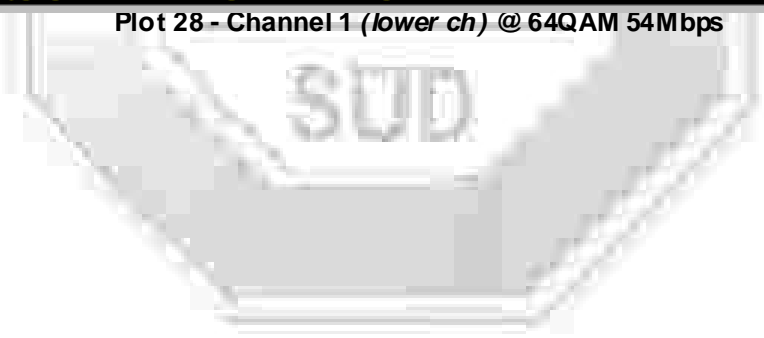


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



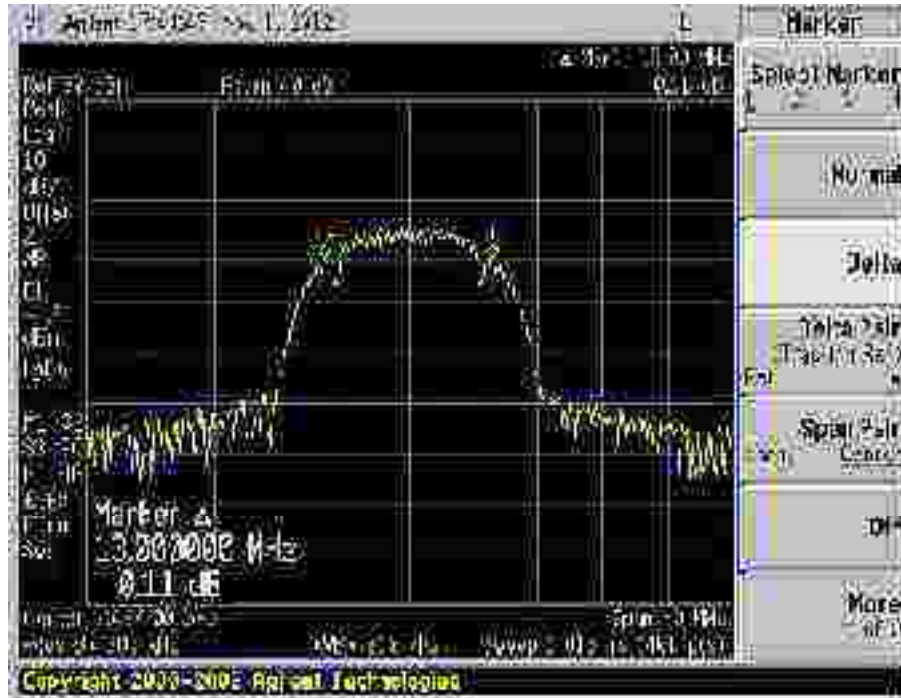
Plot 28 - Channel 1 (lower ch) @ 64QAM 54Mbps



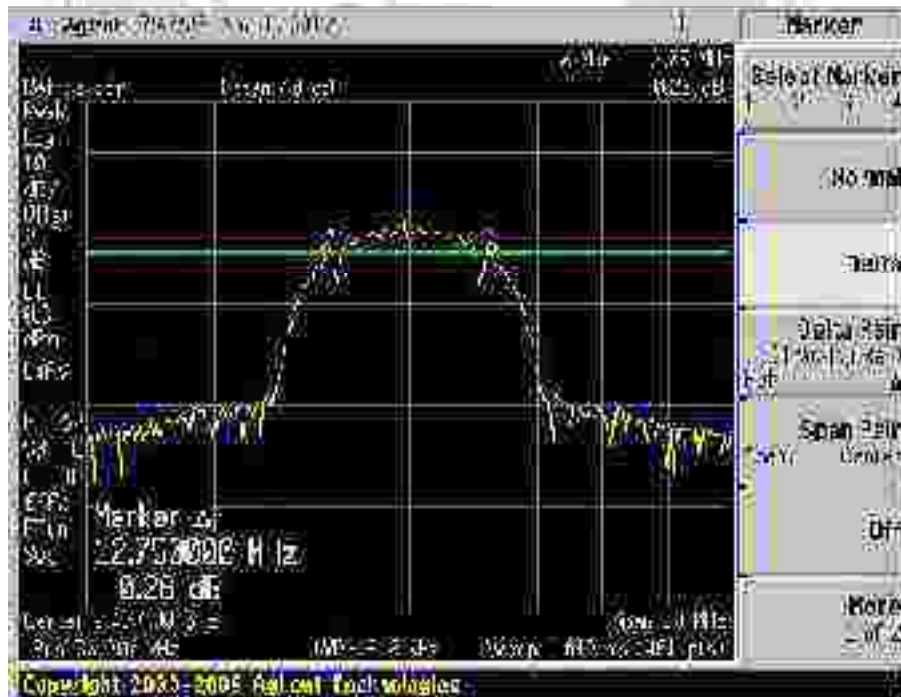


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 29 - Channel 6 (*middle ch*) @DQPSK 1Mbps

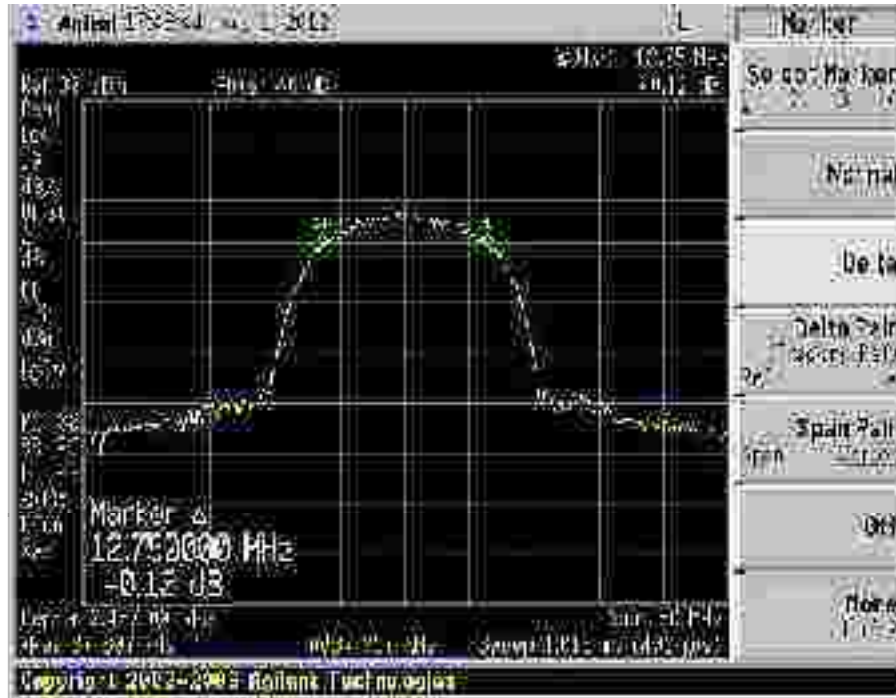


Plot 30 - Channel 6 (*middle ch*) @DQPSK 2Mbps

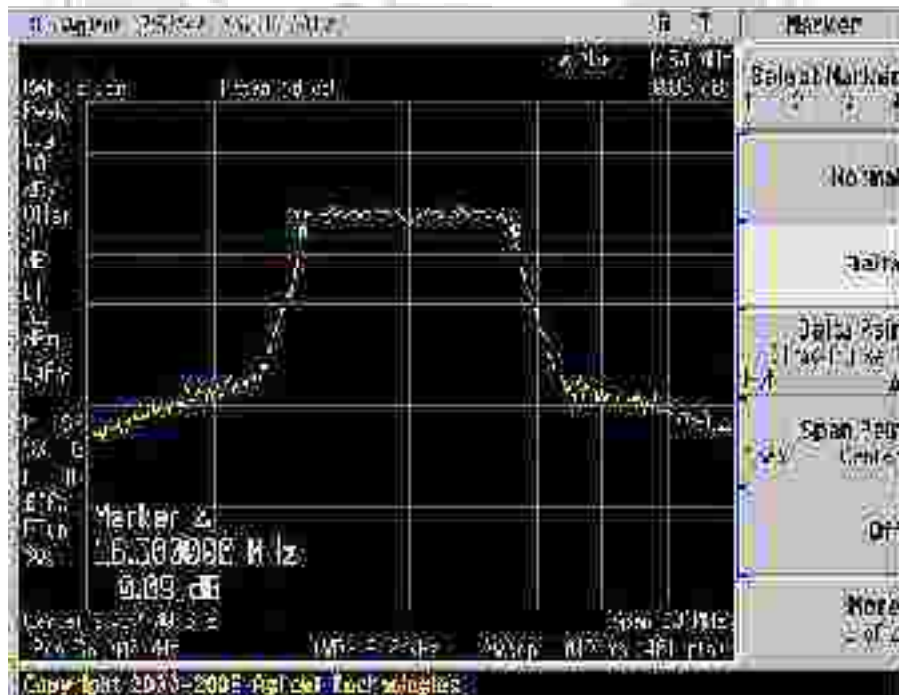


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 31 - Channel 6 (middle ch) @ CCK 11Mbps

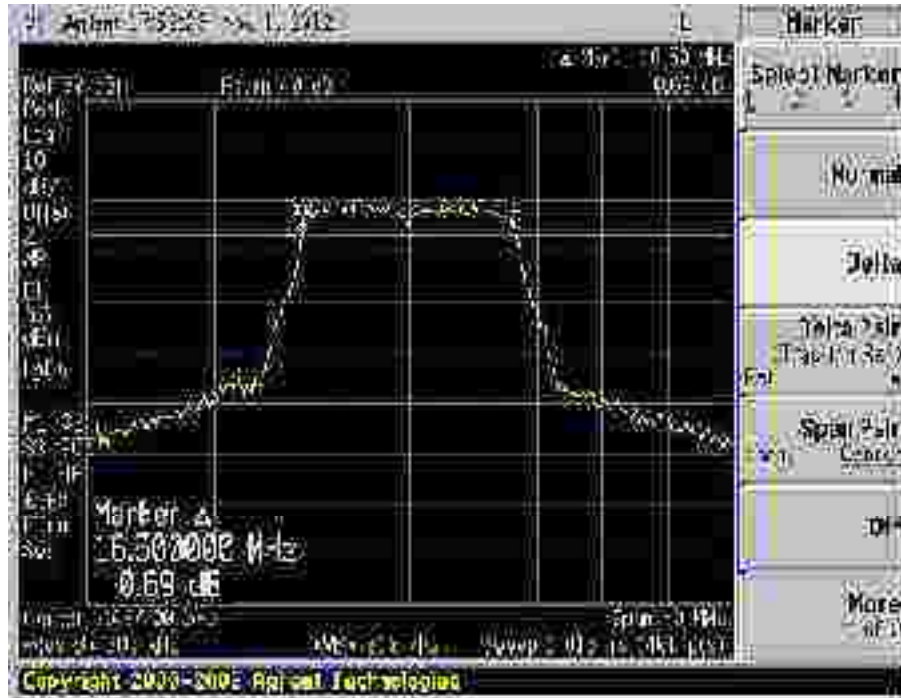


Plot 32 - Channel 6 (middle ch) @ BPSK 9Mbps

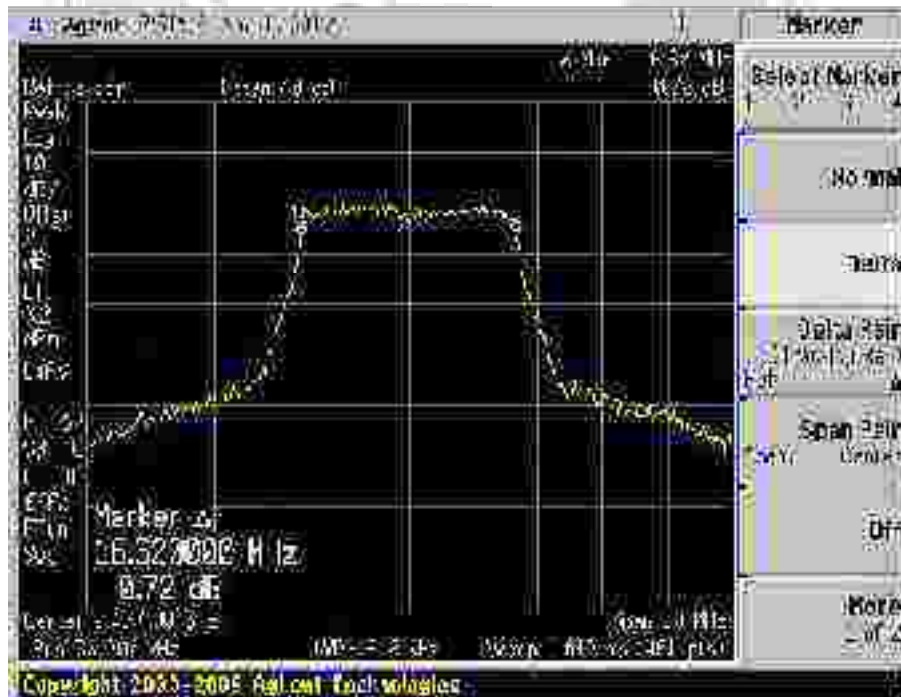


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 33 - Channel 6 (*middle ch*) @ QPSK 18Mbps

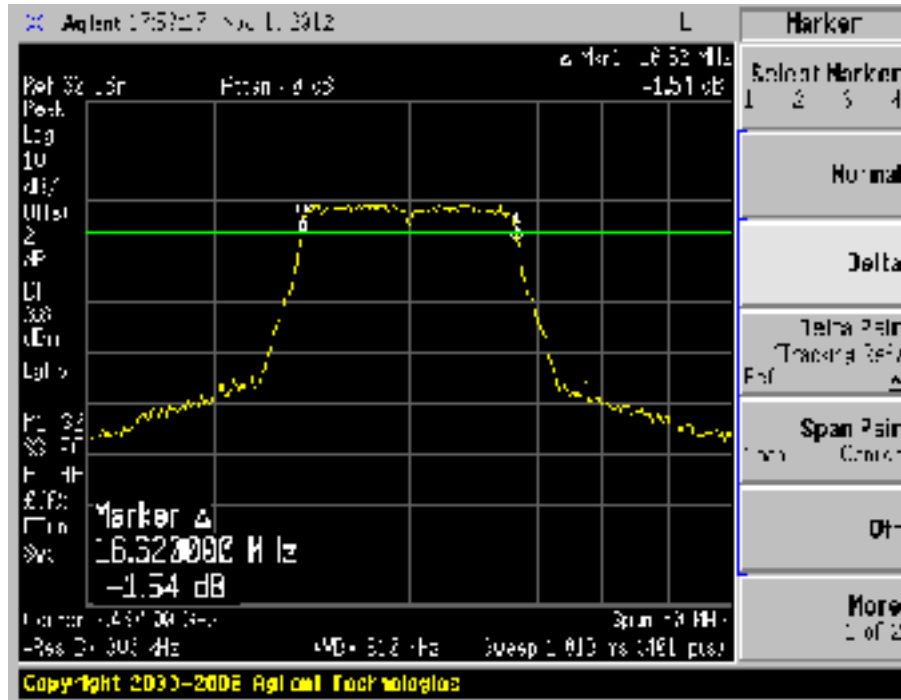


Plot 34 - Channel 6 (*middle ch*) @ 16QAM 36Mbps



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)

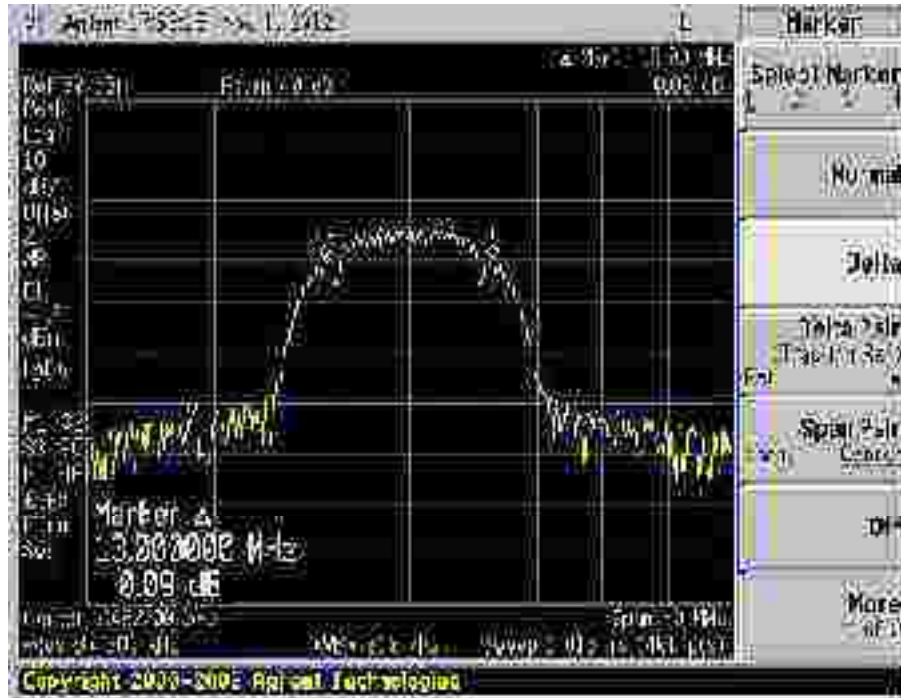


Plot 35 - Channel 6 (middle ch) @ 64QAM 54Mbps

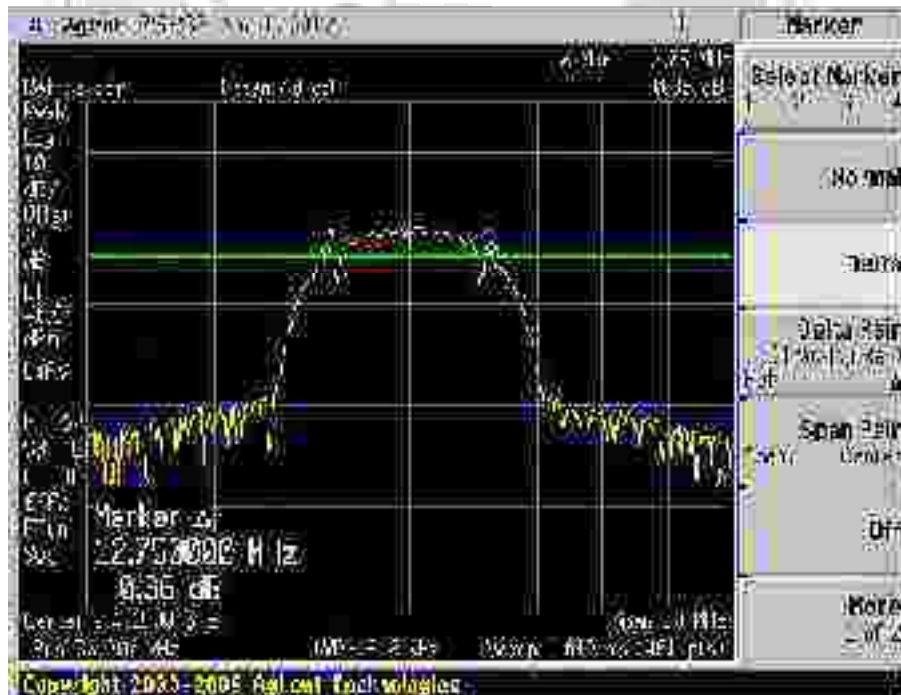


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 36 - Channel 11 (*upper ch*) @ DBPSK 1Mbps

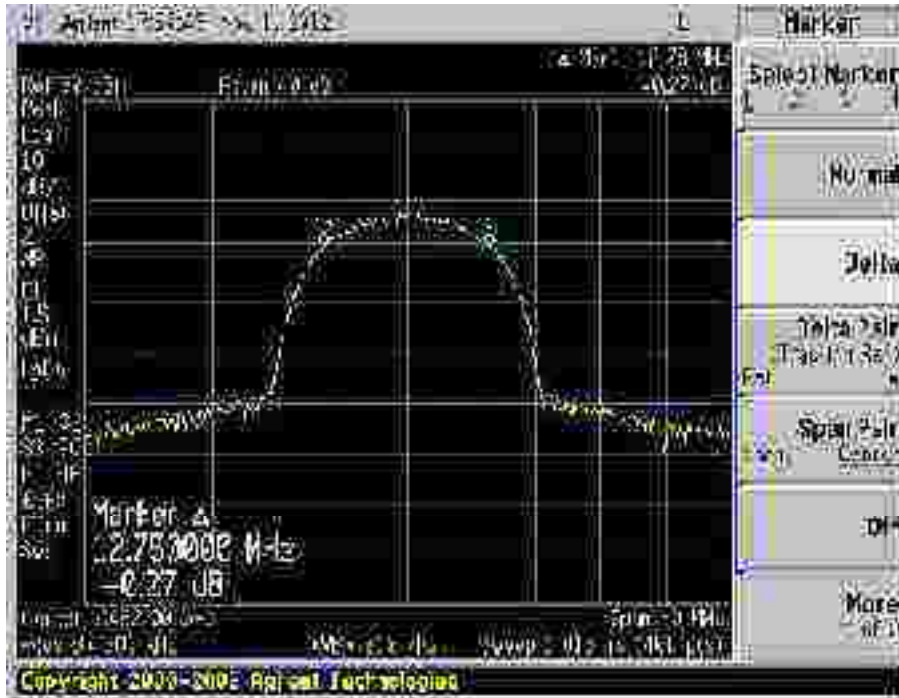


Plot 37 - Channel 11 (*upper ch*) @ DQPSK 2Mbps

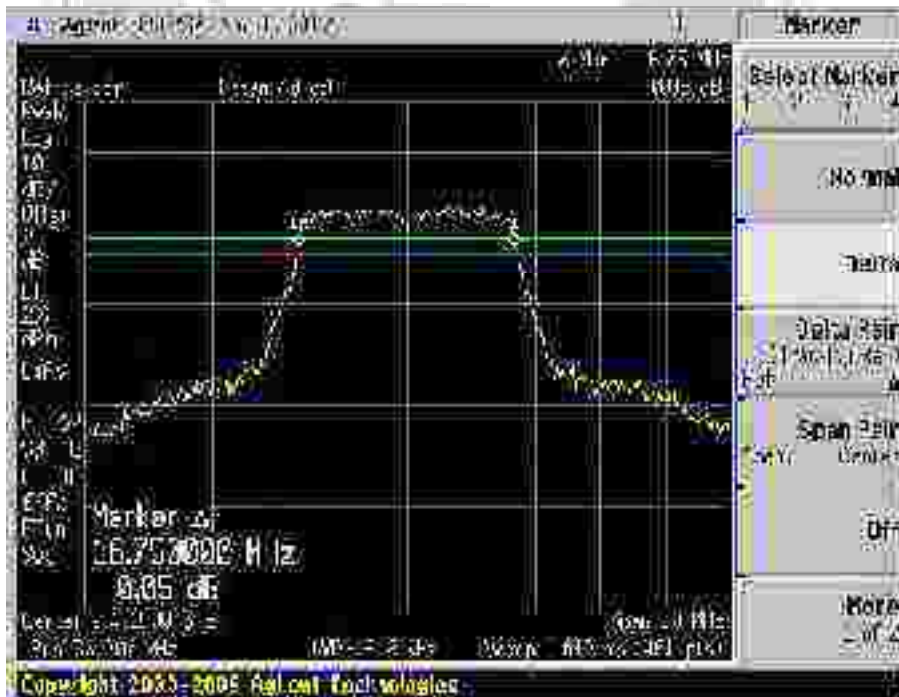


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 38 - Channel 11 (upper ch) @ CCK 11Mbps

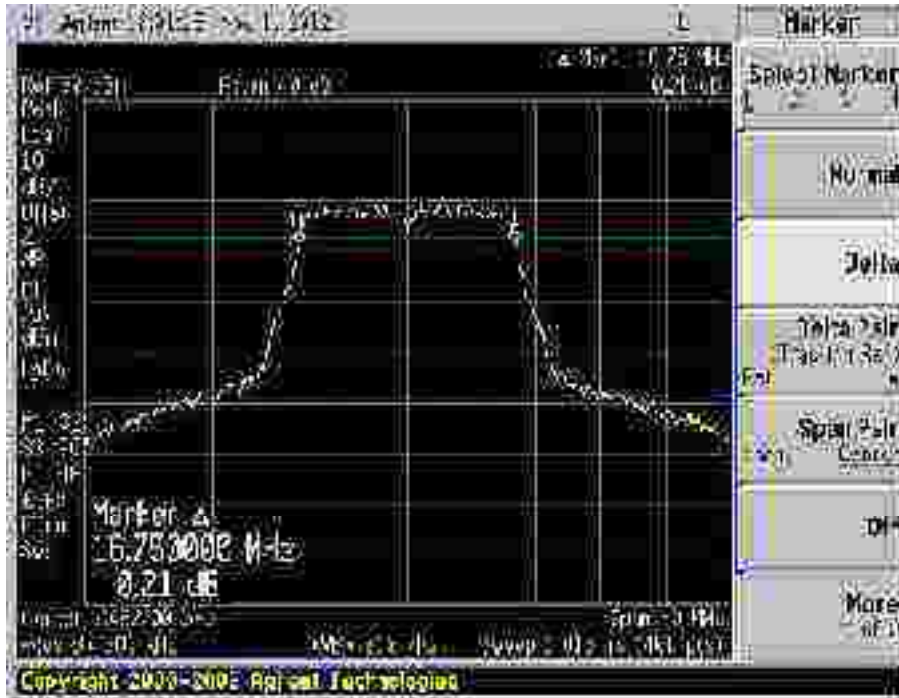


Plot 39 - Channel 11 (upper ch) @ BPSK 9Mbps

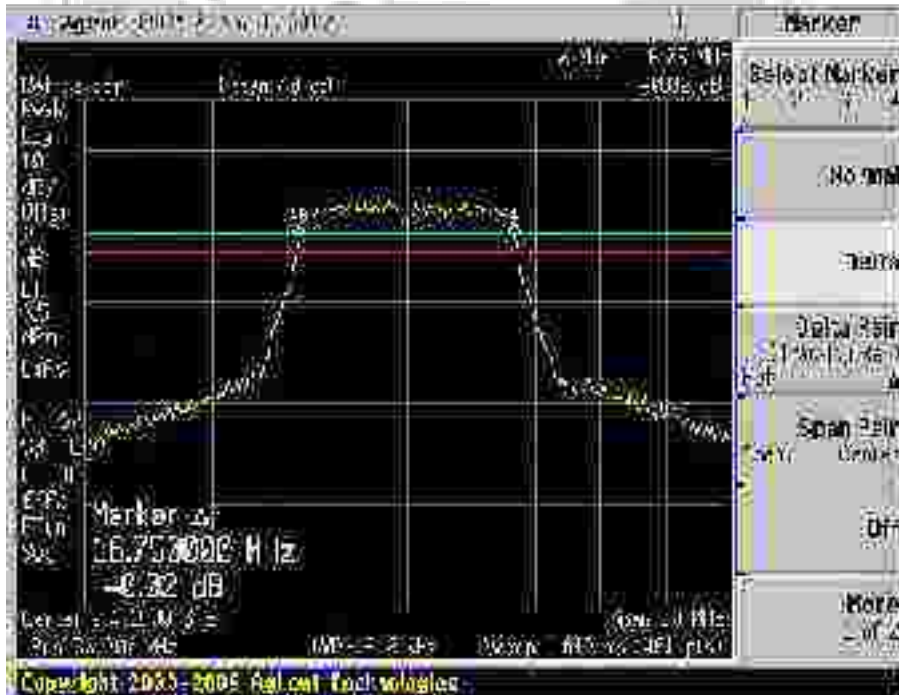


SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 40 - Channel 11 (*upper ch*) @ QPSK 18Mbps

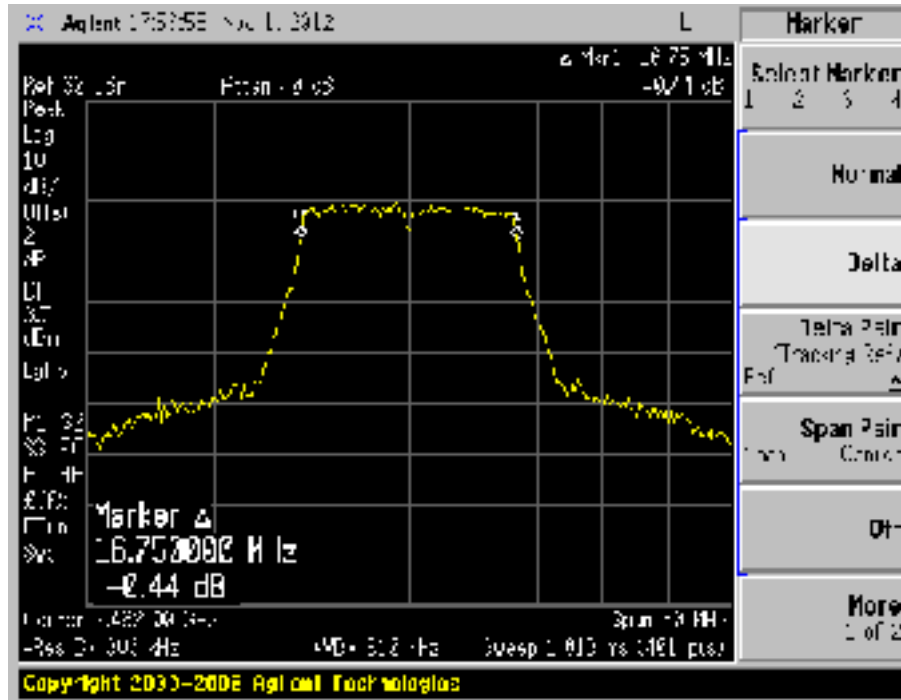


Plot 41 - Channel 11 (*upper ch*) @ 16QAM 36Mbps



SPECTRUM BANDWIDTH (6dB BANDWIDTH MEASUREMENT) TEST

Spectrum Bandwidth (6dB Bandwidth Measurement) Plots (Antenna 2)



Plot 42 - Channel 11 (upper ch) @ 64QAM 54Mbps





MAXIMUM PEAK POWER TEST

47 CFR FCC Part 15.247(b)(3) Maximum Peak Power Limits

The EUT shows compliance to the requirements of this section, which states the maximum peak power of the EUT employing digital modulation shall not exceed 1W (30dBm).

47 CFR FCC Part 15.247(b)(3) Maximum Peak Power Test Instrumentation

Instrument	Model	S/No	Cal Due Date
Boonton RF Power Meter	4532	72901	20 Jun 2013
Boonton Power Sensor	56218-S/1	1417	20 Jun 2013

47 CFR FCC Part 15.247(b)(3) Maximum Peak Power Test Setup

1. The EUT and supporting equipment were set up as shown in the setup photo.
2. The power supply for the EUT was connected to a filtered mains.
3. The RF antenna connector was connected to the power meter.
4. All other supporting equipment were powered separately from another filtered mains.

47 CFR FCC Part 15.247(b)(3) Maximum Peak Power Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode at lower channel with specified modulation and data rate.
2. The maximum peak power of the transmitting frequency was detected and recorded.
3. Repeat steps 1 to 2 with all possible modulations and data rates.
4. The steps 2 to 3 were repeated with the transmitting frequency was set to middle and upper respectively.

MAXIMUM PEAK POWER TEST



Maximum Peak Power Test Setup





MAXIMUM PEAK POWER TEST

47 CFR FCC Part 15.247(b)(3) Maximum Peak Power Results

Test Input Power	110V 60Hz	Temperature	24°C
Antenna Gain	2.0 dBi	Relative Humidity	60%
Antenna	1	Atmospheric Pressure	1030mbar
		Tested By	Kyaw SoeHein

Channel	Channel Frequency (GHz)	Maximum Peak Power (W)	Limit (W)	Modulation @ Data Rate
1	2.412	0.0286	1.0	DBPSK @ 1Mbps
		0.0280	1.0	DQPSK @ 2Mbps
		0.0271	1.0	CCK @ 11Mbps
		0.0318	1.0	BP SK @ 9Mbps
		0.0448	1.0	BP SK @ 18Mbps
		0.0459	1.0	16QAM @ 36Mbps
		0.0489	1.0	64QAM @ 54Mbps
6	2.437	0.0267	1.0	DBPSK @ 1Mbps
		0.0264	1.0	DQPSK @ 2Mbps
		0.0256	1.0	CCK @ 11Mbps
		0.0295	1.0	BP SK @ 9Mbps
		0.0298	1.0	BP SK @ 18Mbps
		0.0411	1.0	16QAM @ 36Mbps
		0.0460	1.0	64QAM @ 54Mbps
11	2.462	0.0244	1.0	DBPSK @ 1Mbps
		0.0239	1.0	DQPSK @ 2Mbps
		0.0234	1.0	CCK @ 11Mbps
		0.0275	1.0	BP SK @ 9Mbps
		0.0381	1.0	BP SK @ 18Mbps
		0.0398	1.0	16QAM @ 36Mbps
		0.0414	1.0	64QAM @ 54Mbps



MAXIMUM PEAK POWER TEST

47 CFR FCC Part 15.247(b)(3) Maximum Peak Power Results

Test Input Power	110V 60Hz	Temperature	24°C
Antenna Gain	2.0 dBi	Relative Humidity	60%
Antenna	2	Atmospheric Pressure	1030mbar
		Tested By	Kyaw SoeHein

Channel	Channel Frequency (GHz)	Maximum Peak Power (W)	Limit (W)	Modulation @ Data Rate
1	2.412	0.0249	1.0	DBPSK @ 1Mbps
		0.0247	1.0	DQPSK @ 2Mbps
		0.0244	1.0	CCK @ 11Mbps
		0.0334	1.0	BP SK @ 9Mbps
		0.0453	1.0	BP SK @ 18Mbps
		0.0469	1.0	16QAM @ 36Mbps
		0.0500	1.0	64QAM @ 54Mbps
6	2.437	0.0237	1.0	DBPSK @ 1Mbps
		0.0235	1.0	DQPSK @ 2Mbps
		0.0231	1.0	CCK @ 11Mbps
		0.0292	1.0	BP SK @ 9Mbps
		0.0409	1.0	BP SK @ 18Mbps
		0.0427	1.0	16QAM @ 36Mbps
		0.0451	1.0	64QAM @ 54Mbps
11	2.462	0.0215	1.0	DBPSK @ 1Mbps
		0.0214	1.0	DQPSK @ 2Mbps
		0.0210	1.0	CCK @ 11Mbps
		0.0264	1.0	BP SK @ 9Mbps
		0.0361	1.0	BP SK @ 18Mbps
		0.0383	1.0	16QAM @ 36Mbps
		0.0390	1.0	64QAM @ 54Mbps

Notes

1. Nil.



RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Non-Restricted Bands) Limits

The EUT shows compliance to the requirements of this section, which states in any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator (EUT) is operating, the radio frequency power that is produced by the EUT shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Non-Restricted Bands) Test Instrumentation

Instrument	Model	S/No	Cal Due Date
Agilent Spectrum Analyzer	E4440A	MY45304764	20 Jun 2013

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Non-Restricted Bands) Test Setup

1. The EUT and supporting equipment were set up as shown in the setup photo.
2. The power supply for the EUT was connected to a filtered mains.
3. The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
4. The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 100kHz and 300kHz.
5. All other supporting equipment were powered separately from another filtered mains.

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Non-Restricted Bands) Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode, with the transmitting frequency was set to lower channel with specified modulation and data rate.
2. The start and stop frequencies of the spectrum analyser were set to 30MHz and 10GHz.
3. The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected.
4. The steps 2 to 3 were repeated with frequency span was set from 10GHz to 25GHz.
5. Repeat steps 1 to 4 with all possible modulations and data rates.
6. The steps 2 to 5 were repeated with the transmitting frequency was set to middle and upper channel respectively.

RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST



RF Conducted Spurious Emissions (Non-Restricted Bands) Test Setup

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Non-Restricted Bands) Results

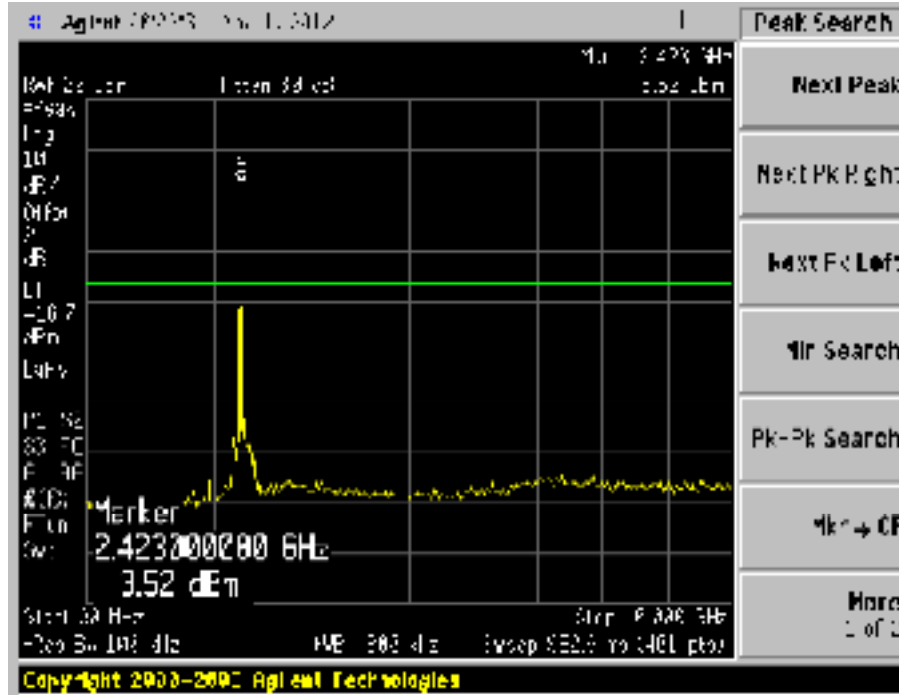
Test Input Power	110V 60Hz	Temperature	24°C
Attached Plots	43 – 84 (Antenna 1)	Relative Humidity	60%
	85 – 126 (Antenna 2)	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein

All spurious signals found were below the specified limit. Please refer to the attached plots.

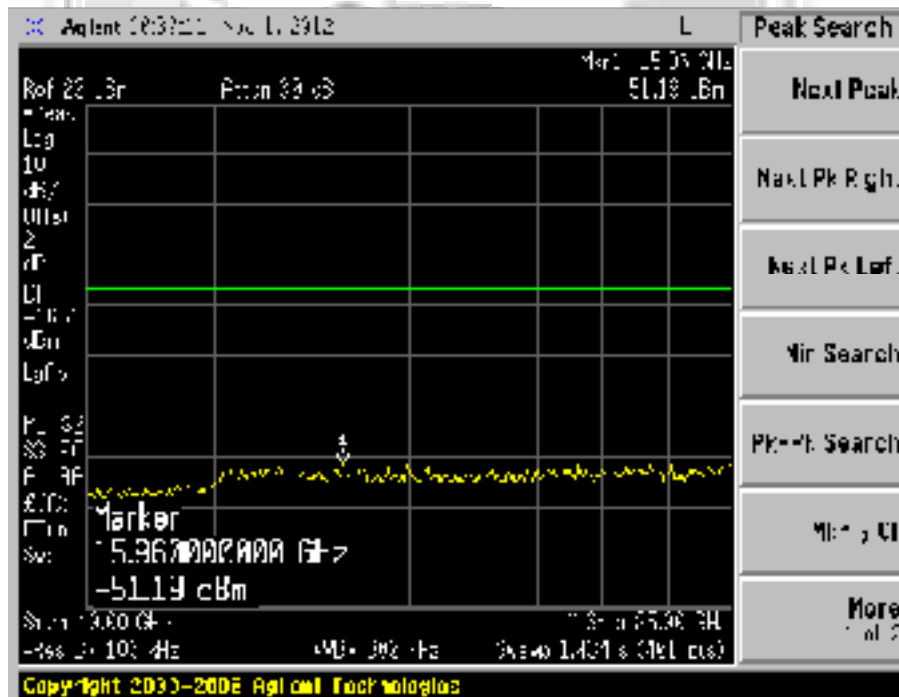


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 43 – Channel 1 (lower ch) @DBPSK 1Mbps

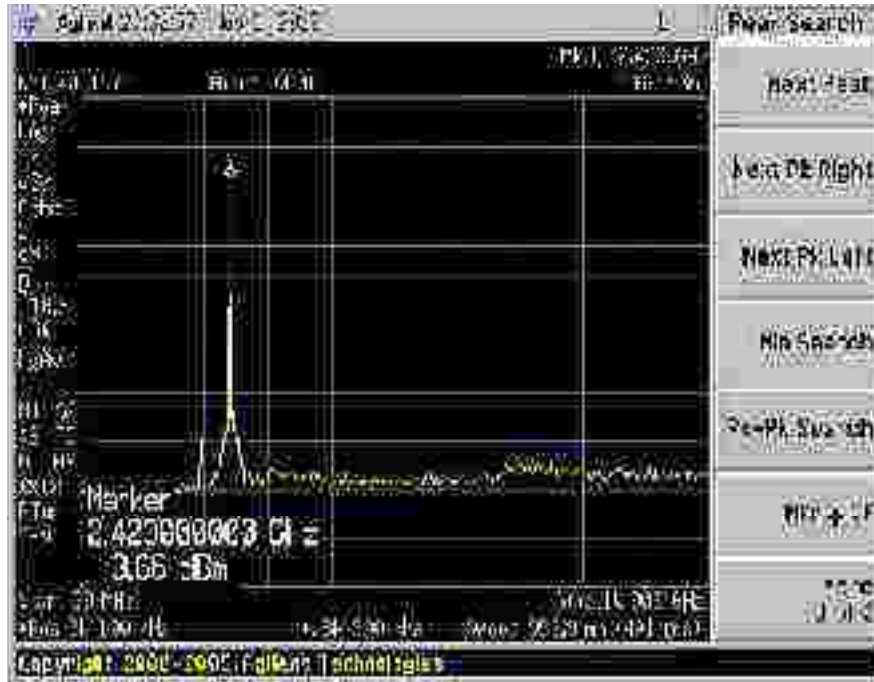


Plot 44 – Channel 1 (lower ch) @DBPSK 1Mbps

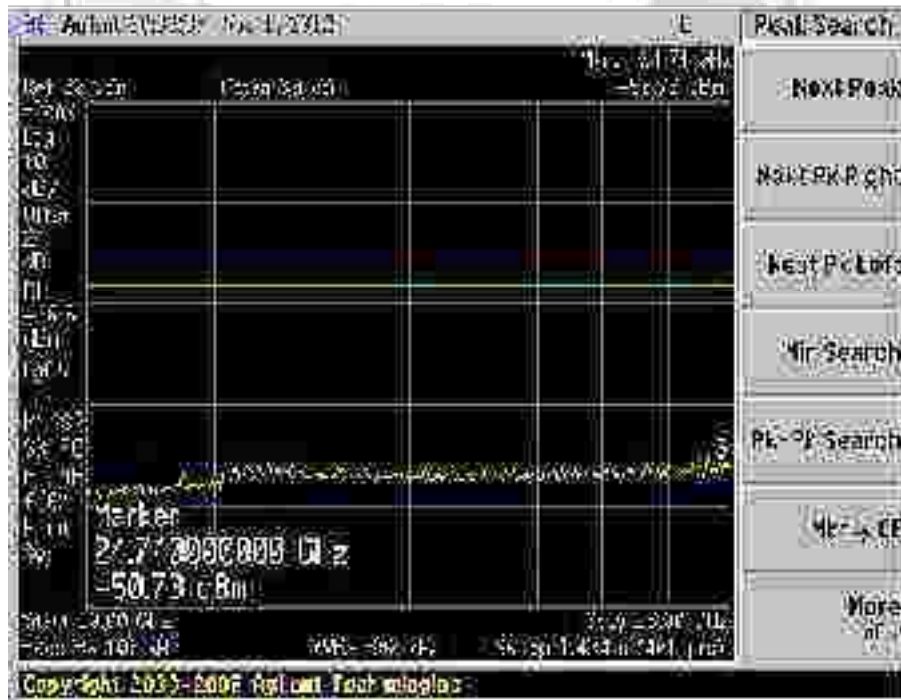


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 45 – Channel 1 (lower ch) @ DQPSK 2Mbps

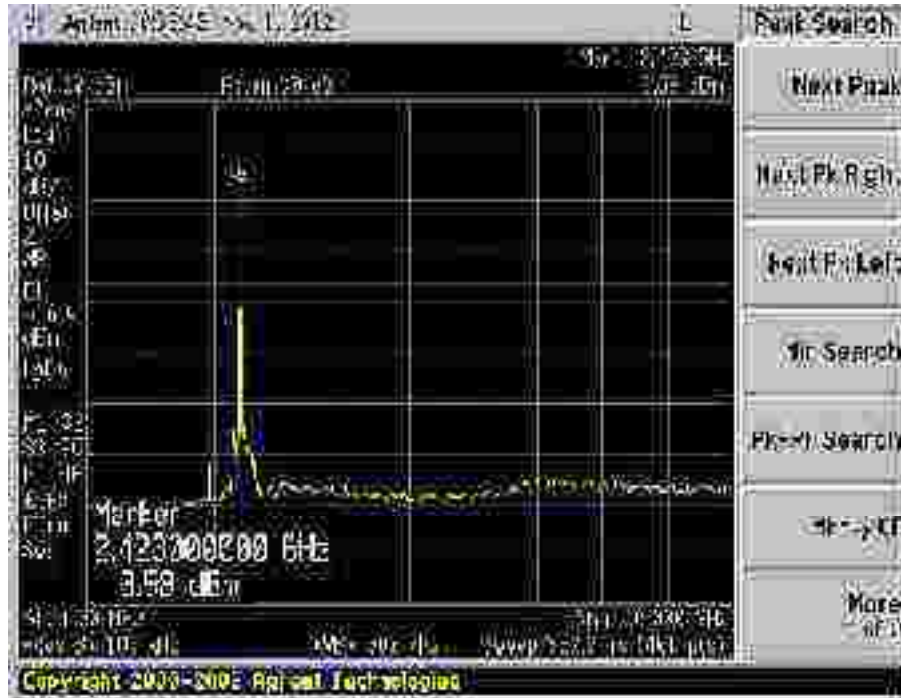


Plot 46 – Channel 1 (lower ch) @ DQPSK 2Mbps

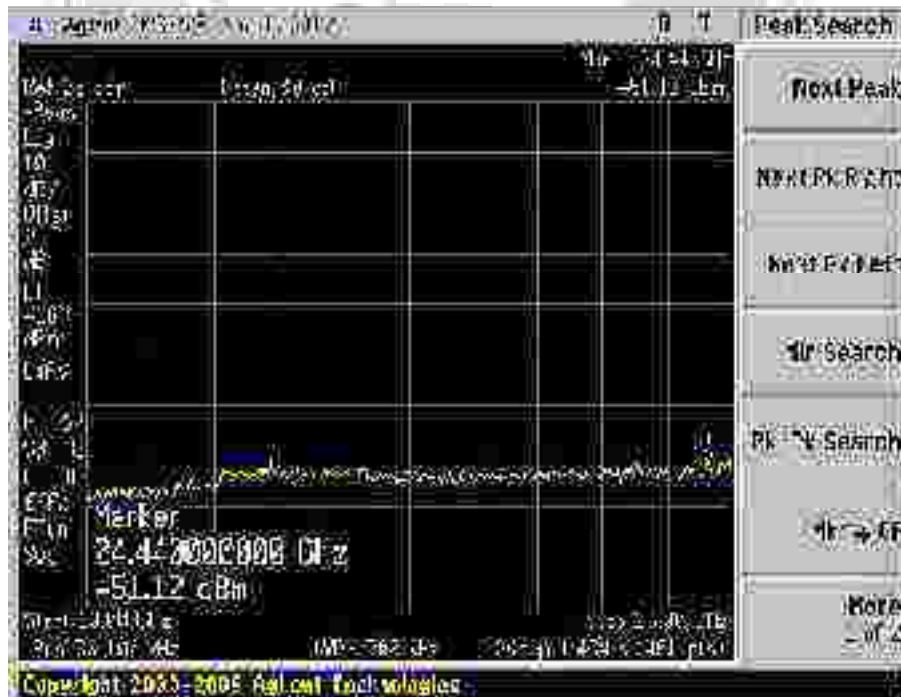


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 47 – Channel 1 (lower ch) @ CCK 11Mbps

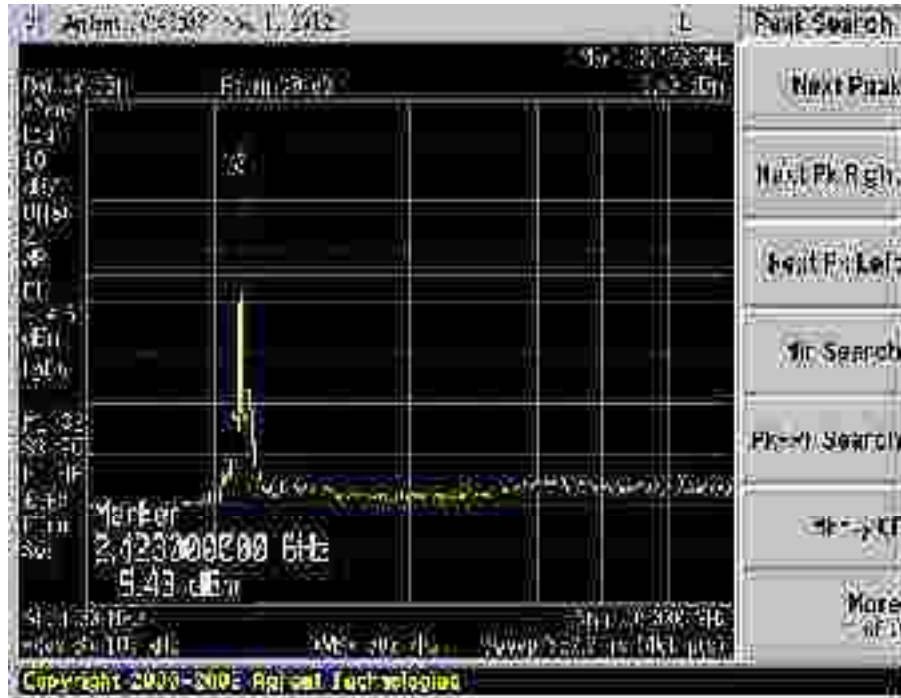


Plot 48 – Channel 1 (lower ch) @ CCK 11Mbps

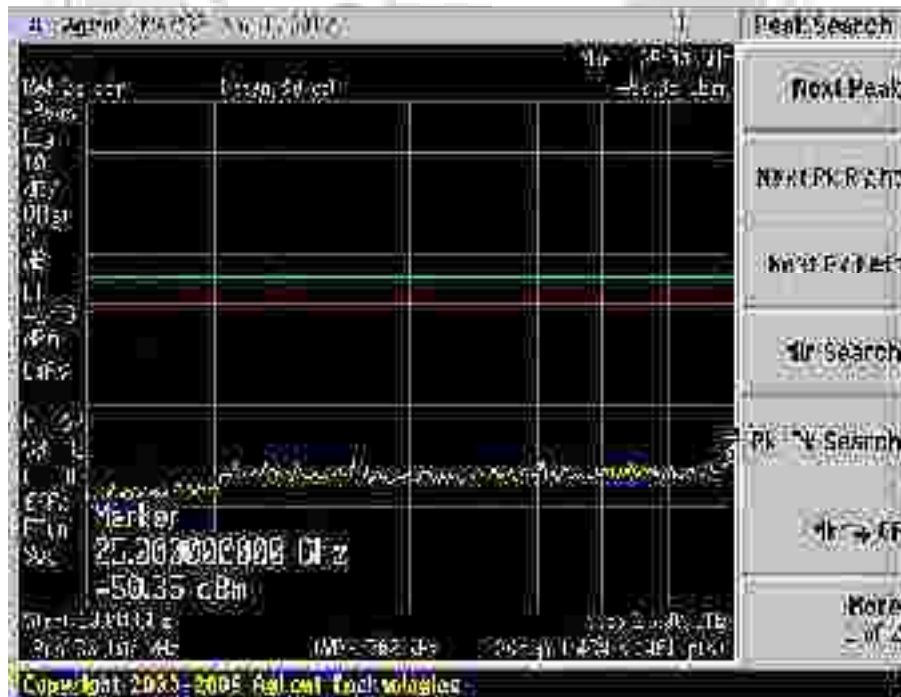


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 49 – Channel 1 (lower ch) @ BPSK 9Mbps

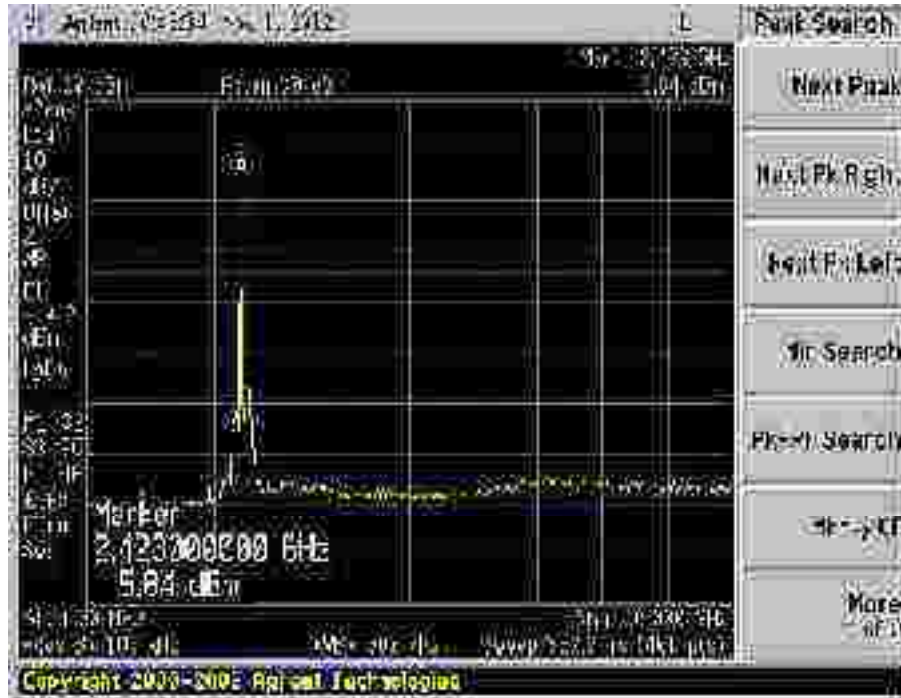


Plot 50 – Channel 1 (lower ch) @ BPSK 9Mbps

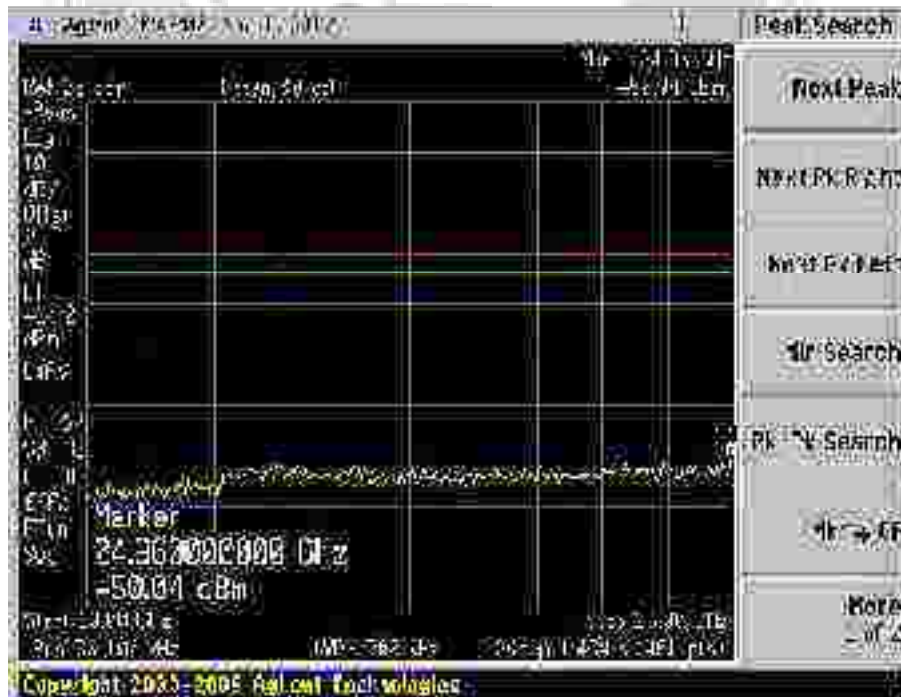


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 51 – Channel 1 (lower ch) @QPSK 18Mbps

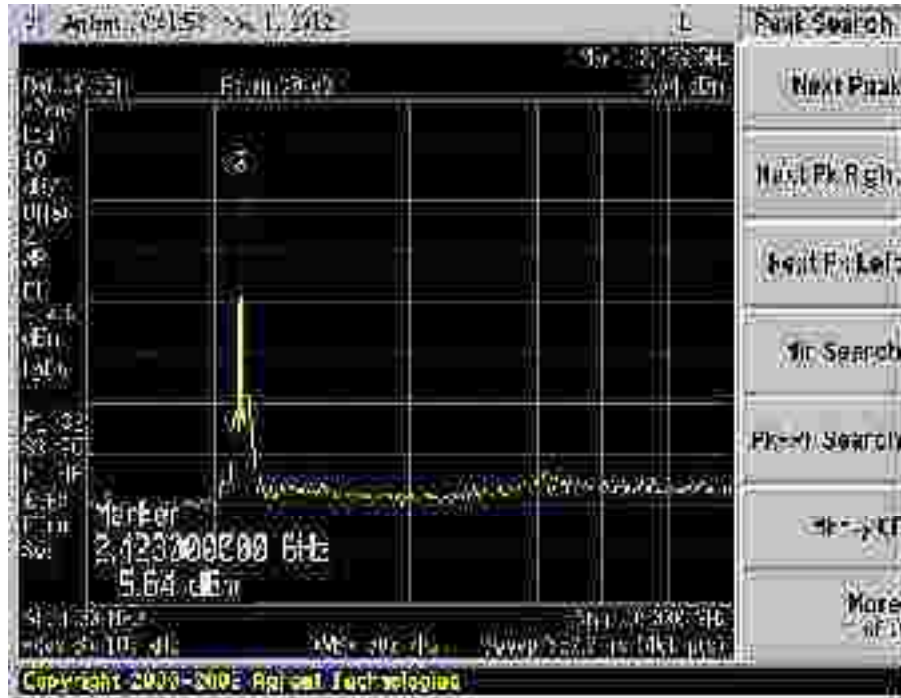


Plot 52 – Channel 1 (lower ch) @QPSK 18Mbps

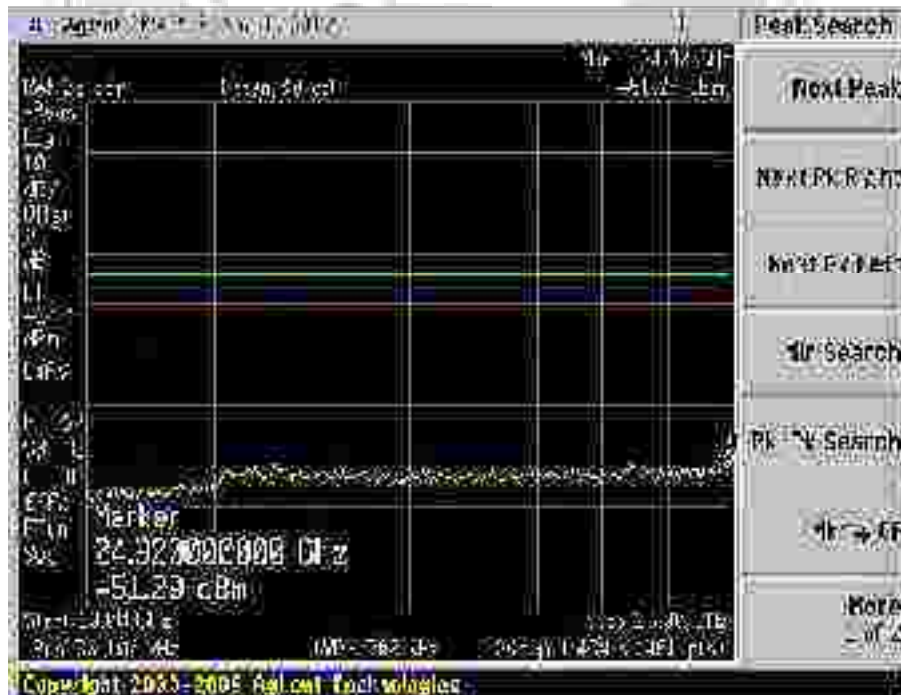


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 53 – Channel 1 (lower ch) @16QAM 36Mbps

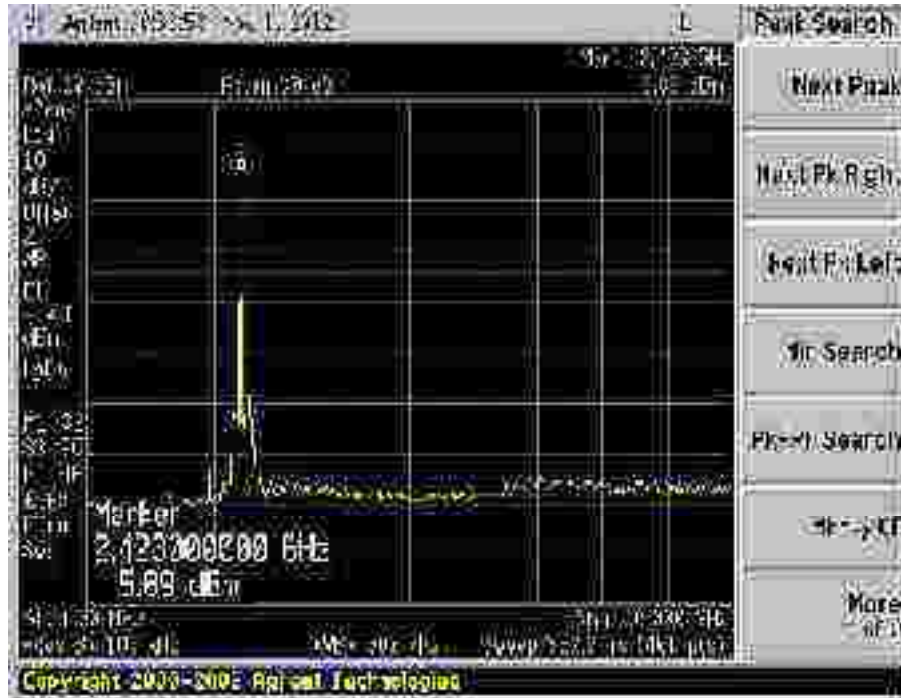


Plot 54 – Channel 1 (lower ch) @16QAM 36Mbps

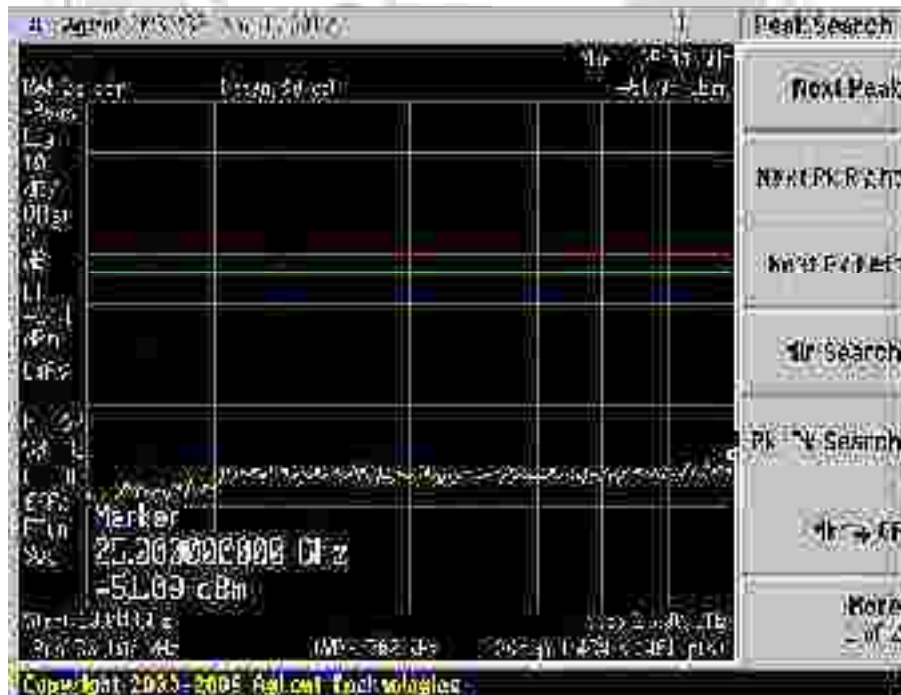


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 55 – Channel 1 (lower ch) @ 64QAM 54Mbps

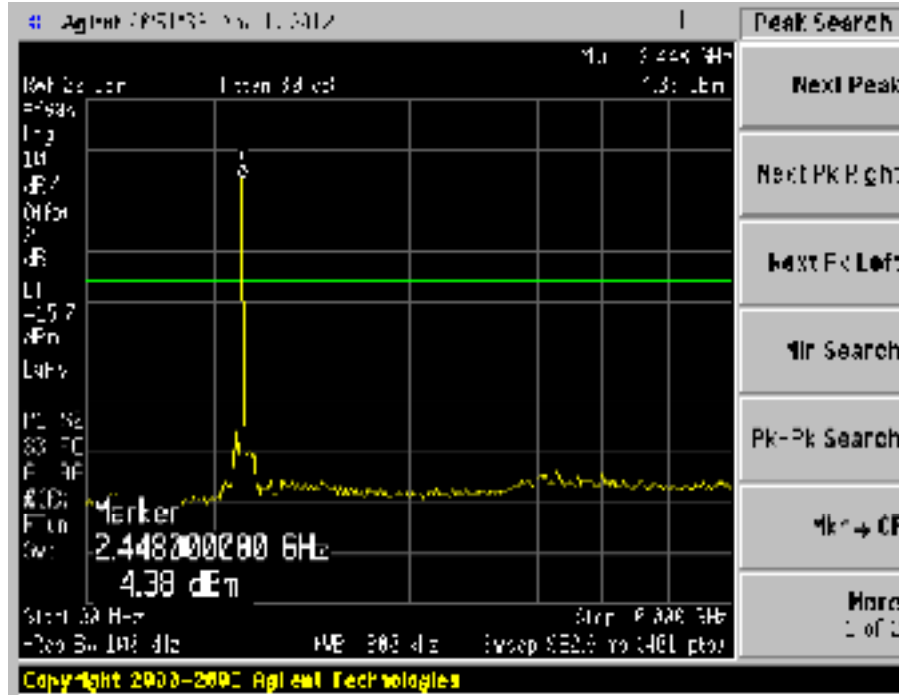


Plot 56 – Channel 1 (lower ch) @ 64QAM 54Mbps

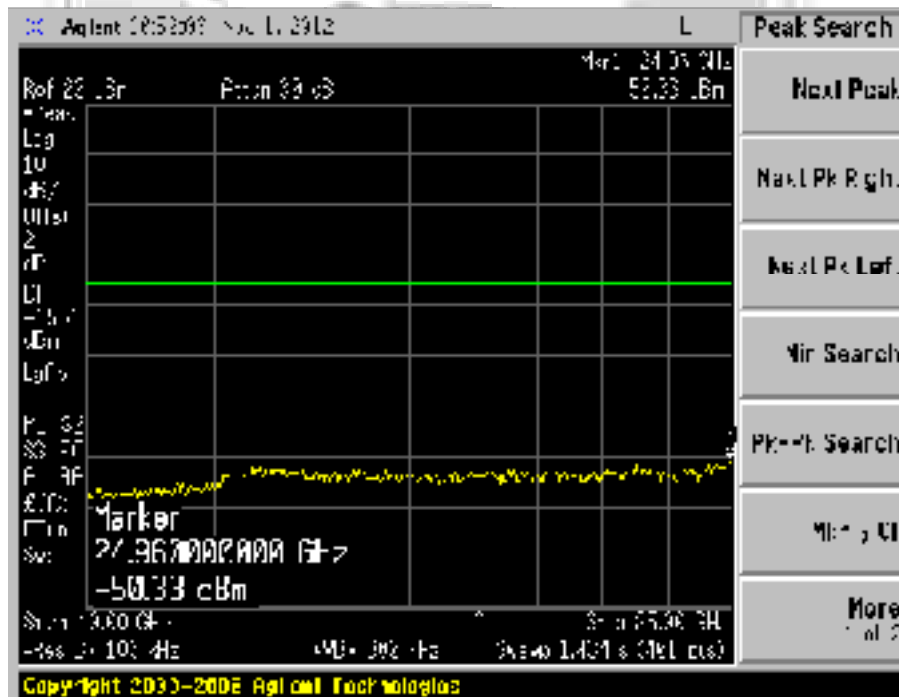


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 57 – Channel 6 (middle ch) @ DBPSK 1Mbps

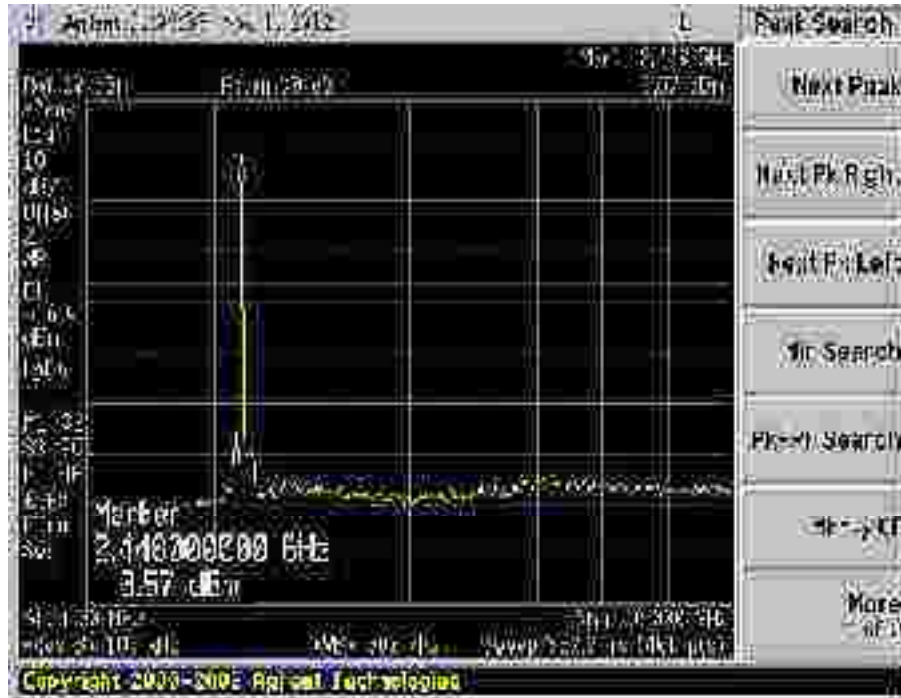


Plot 58 – Channel 6 (middle ch) @ DBPSK 1Mbps

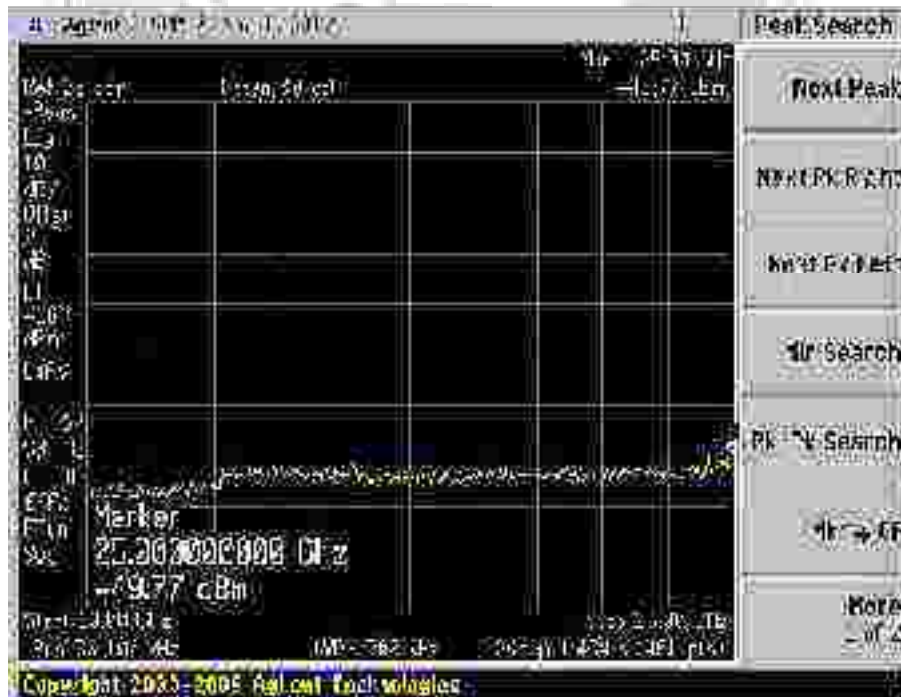


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 59 – Channel 6 (middle ch) @ DQPSK 2Mbps

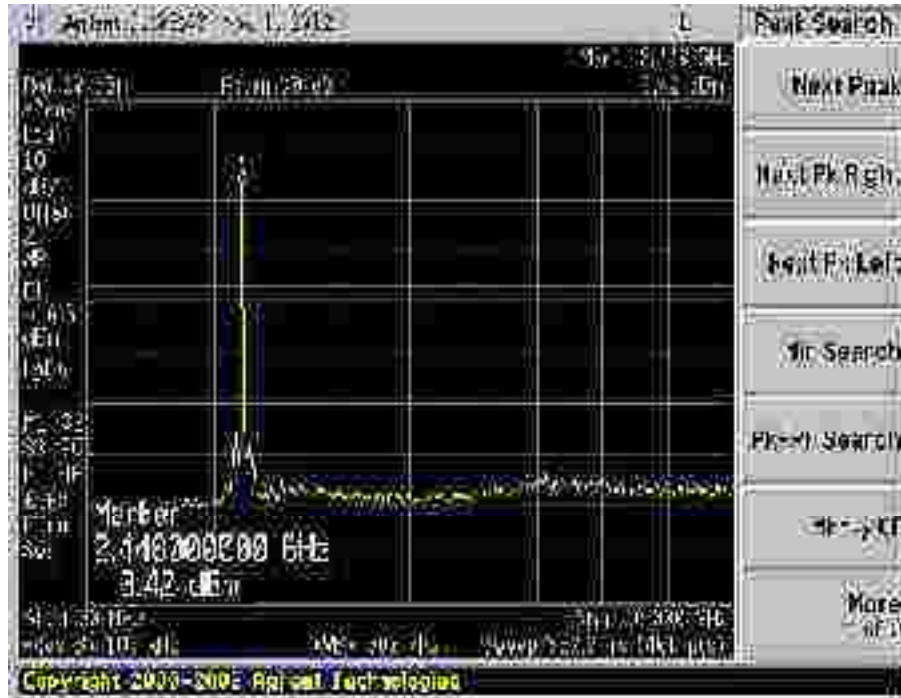


Plot 60 – Channel 6 (middle ch) @ DQPSK 2Mbps

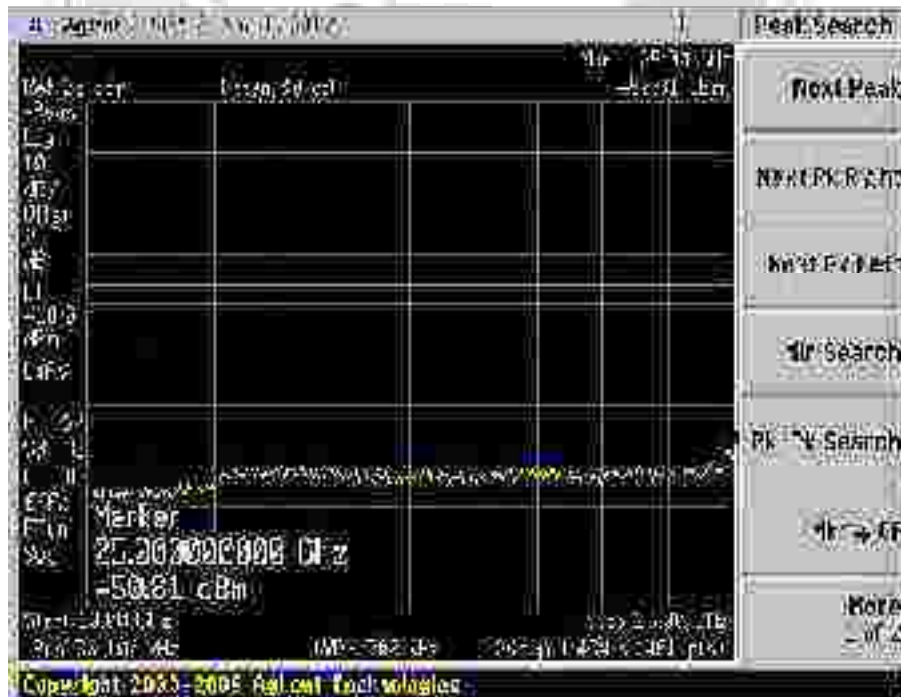


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 61 – Channel 6 (middle ch) @ CCK 11Mbps

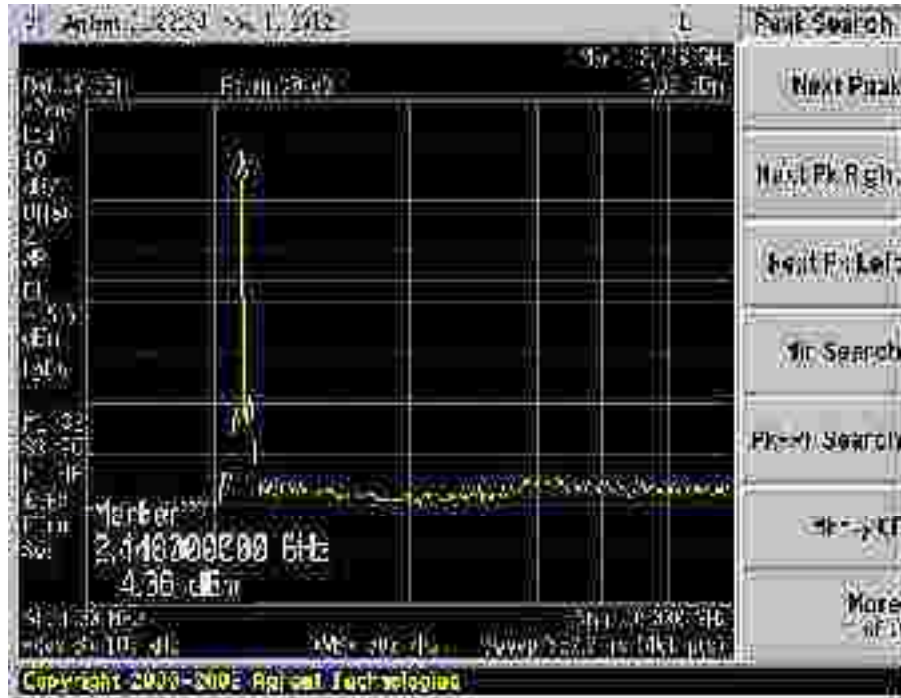


Plot 62 – Channel 6 (middle ch) @ CCK 11Mbps

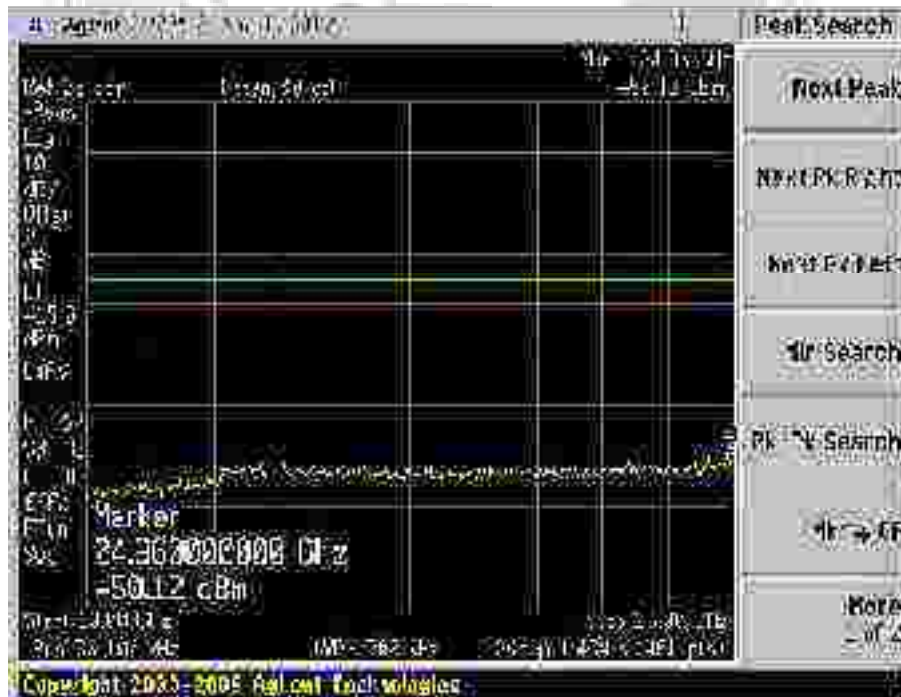


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 63 – Channel 6 (middle ch) @ BP SK 9Mbps

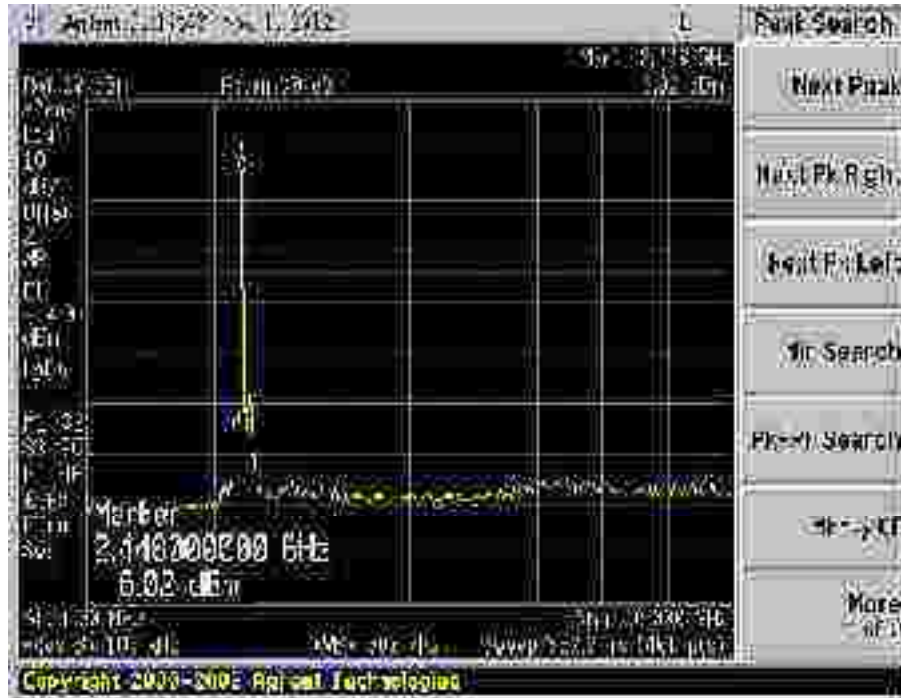


Plot 64 – Channel 6 (middle ch) @ BP SK 9Mbps

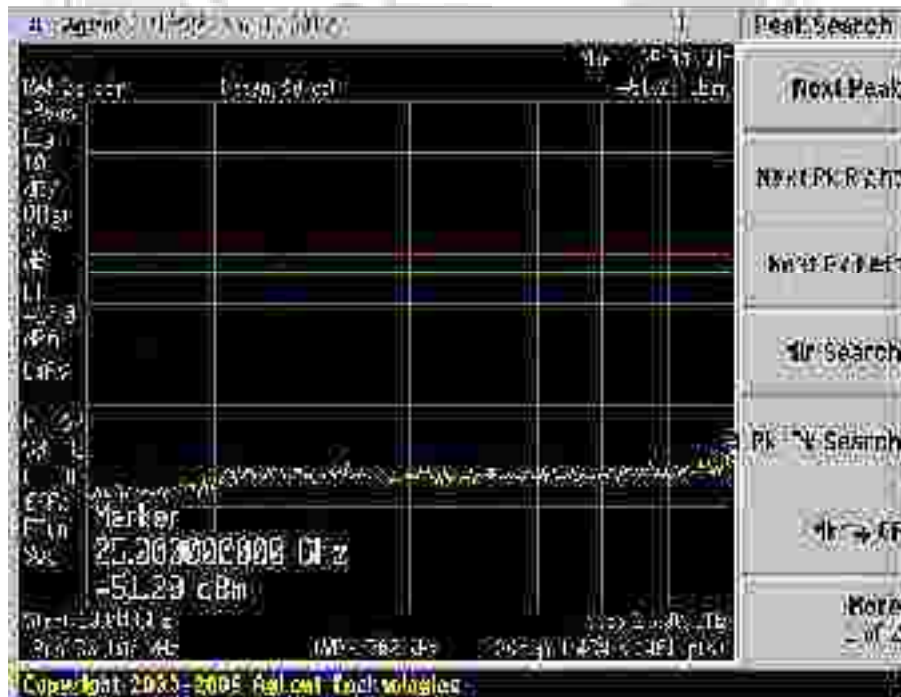


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 65 – Channel 6 (middle ch) @ QPSK 18Mbps

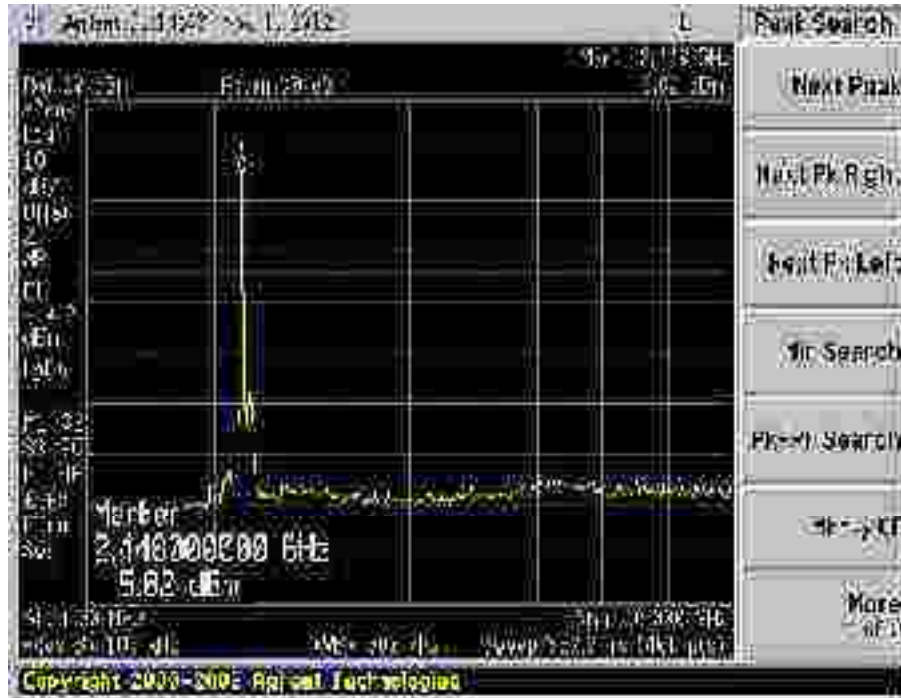


Plot 66 – Channel 6 (middle ch) @ QPSK 18Mbps

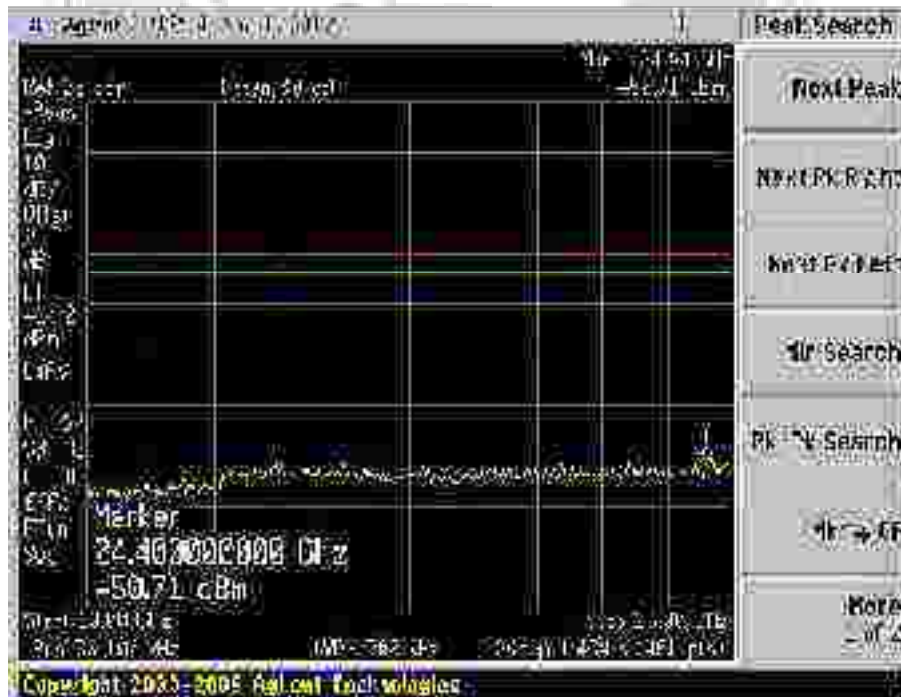


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 67 – Channel 6 (middle ch) @16QAM 36Mbps

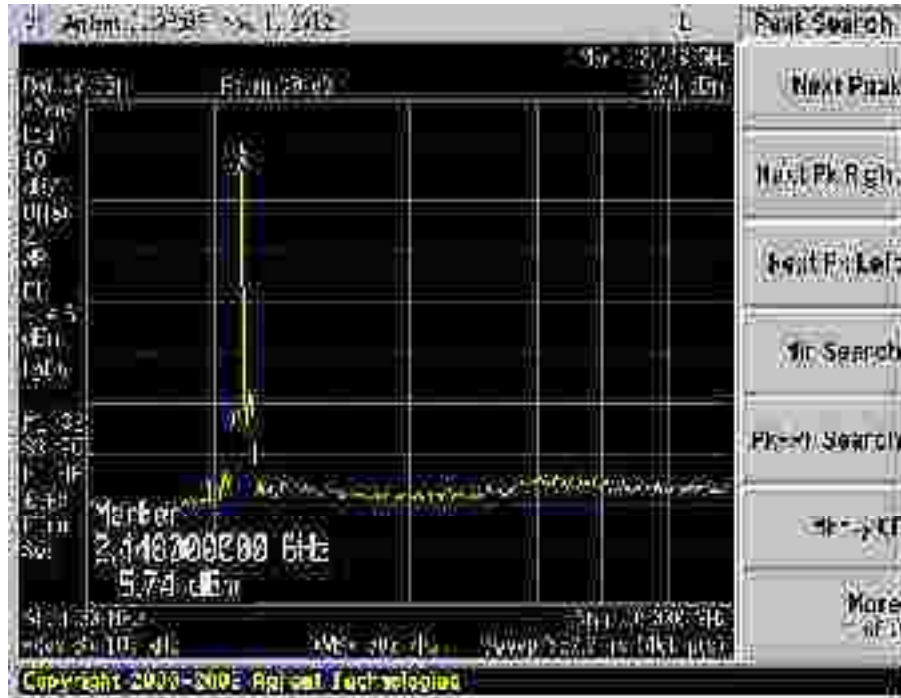


Plot 68 – Channel 6 (middle ch) @16QAM 36Mbps

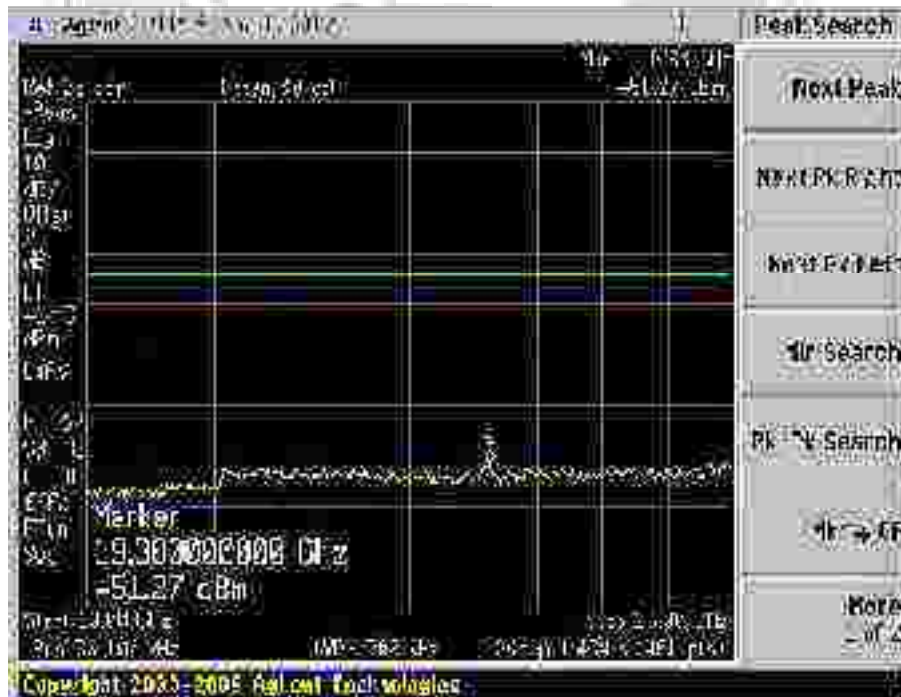


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 69 – Channel 6 (middle ch) @64QAM 54Mbps

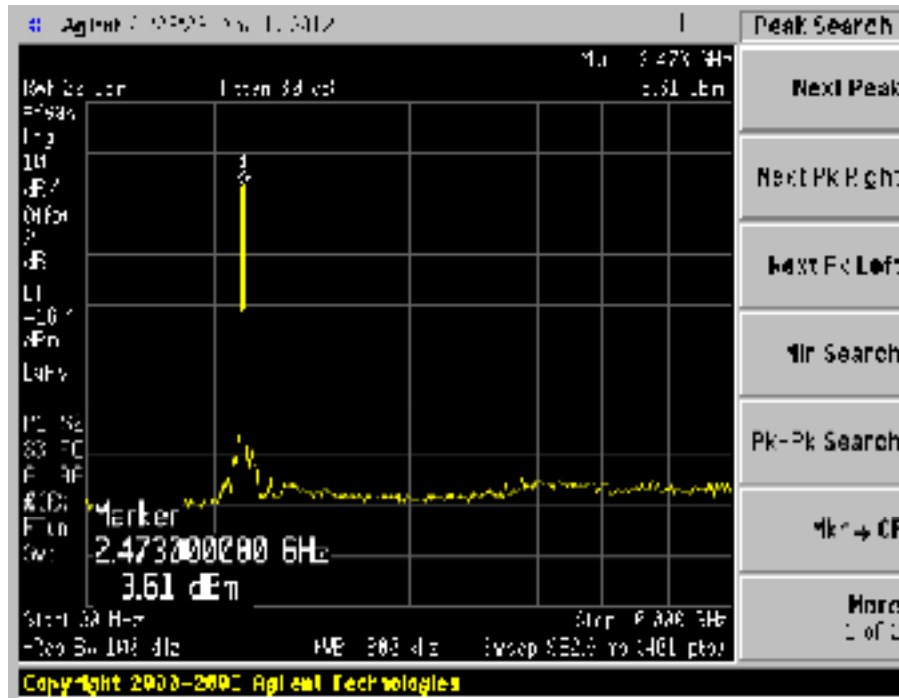


Plot 70 – Channel 6 (middle ch) @64QAM 54Mbps

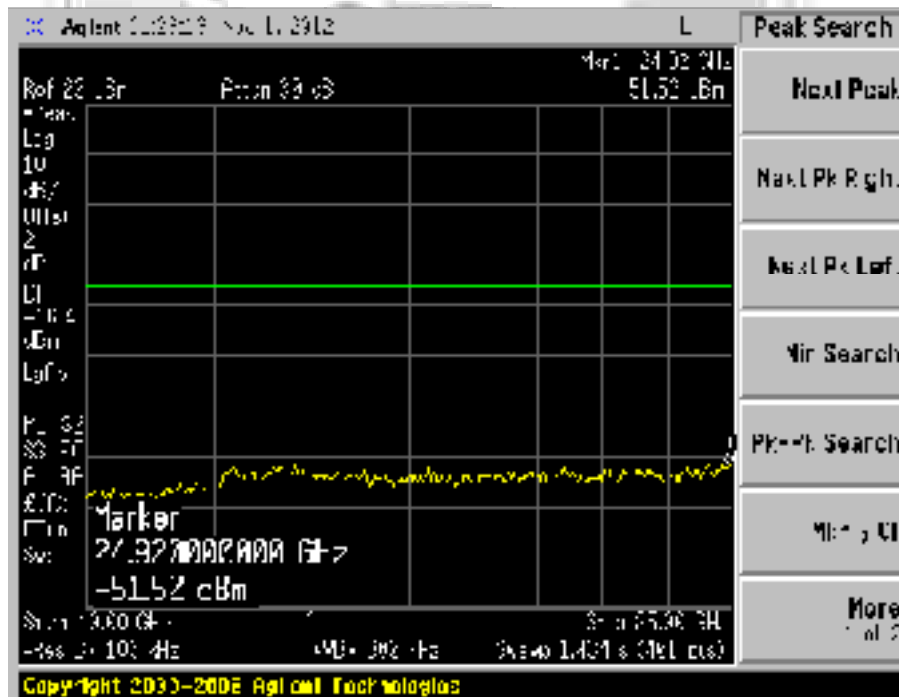


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 71 – Channel 11 (upper ch) @ DBPSK 1Mbps

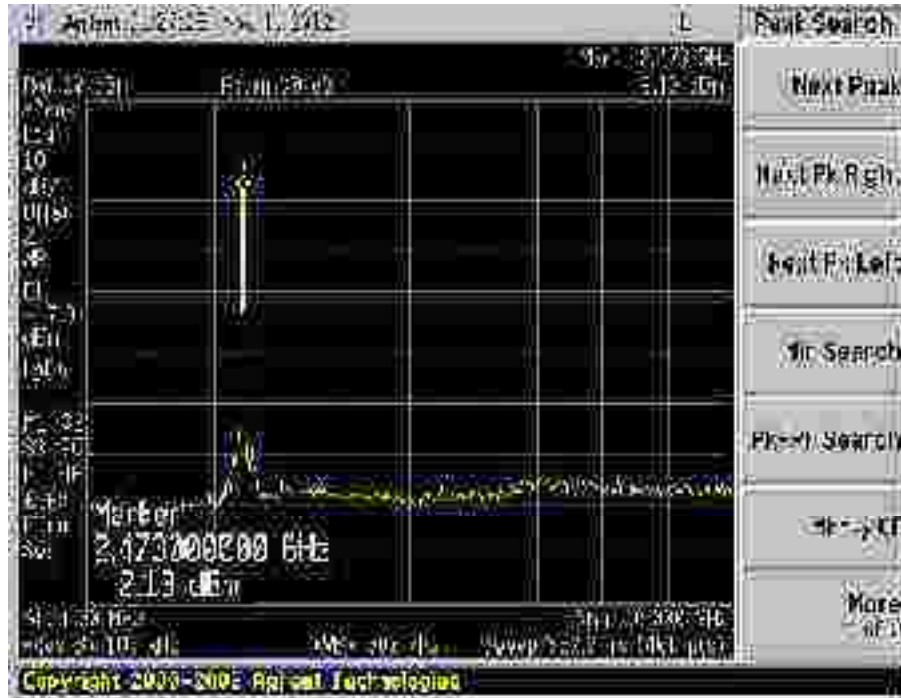


Plot 72 – Channel 11 (upper ch) @ DBPSK 1Mbps

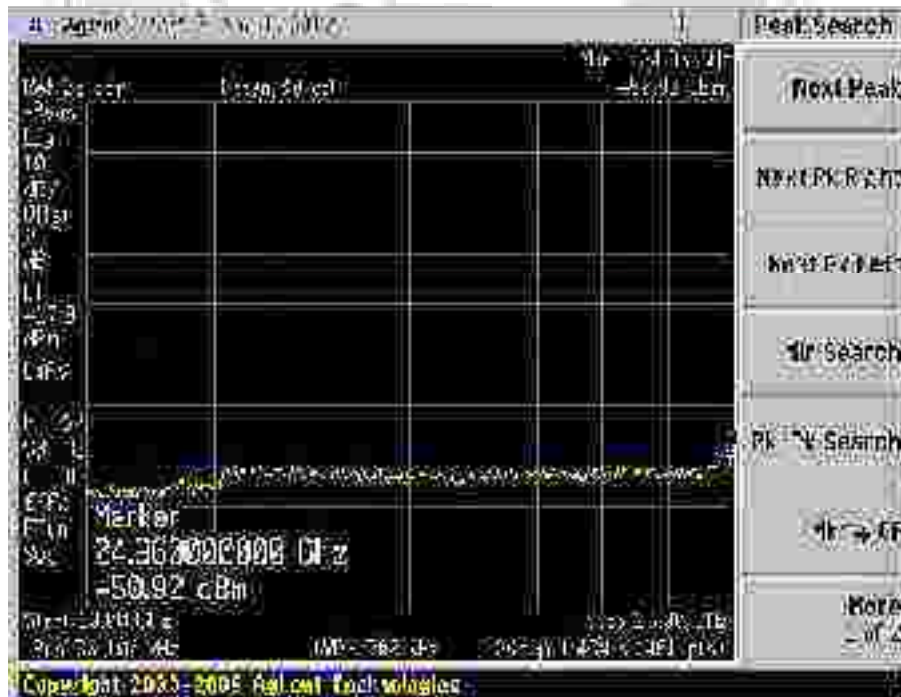


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 73 – Channel 11 (*upper ch*) @ DQPSK 2Mbps

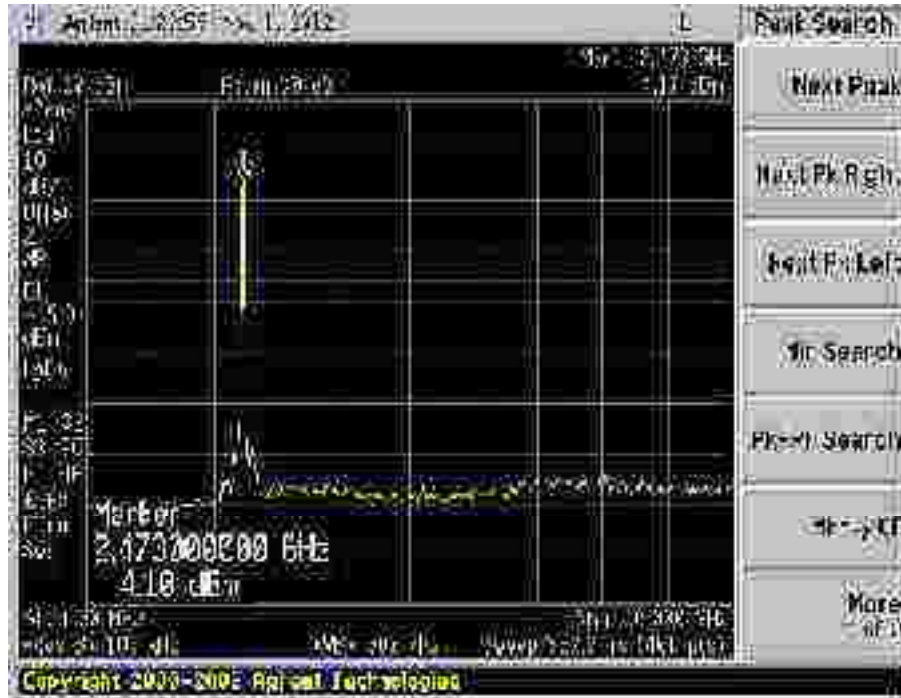


Plot 74 – Channel 11 (*upper ch*) @ DQPSK 2Mbps

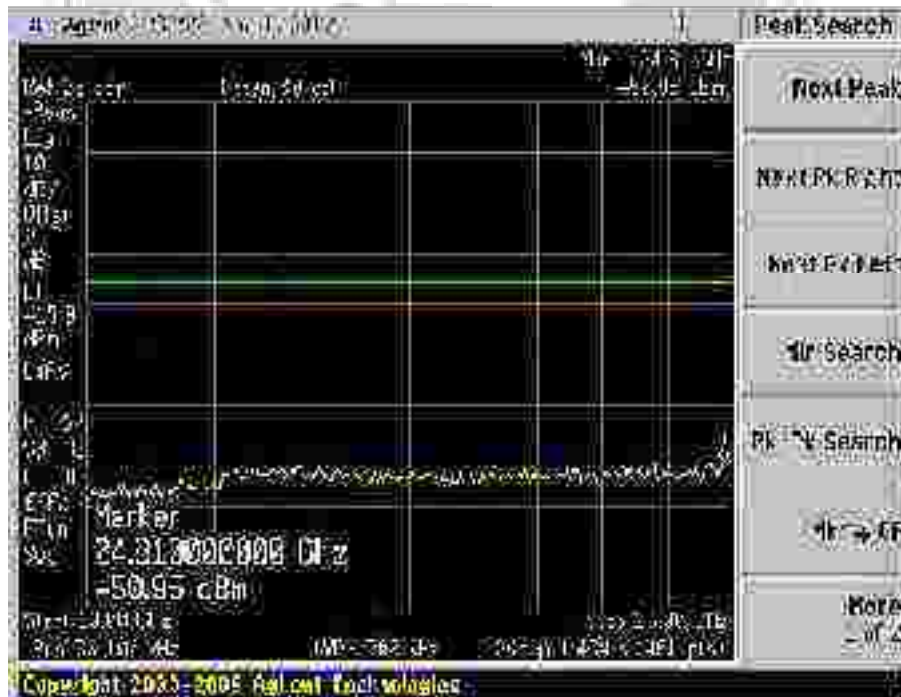


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 75 – Channel 11 (upper ch) @ CCK 11Mbps

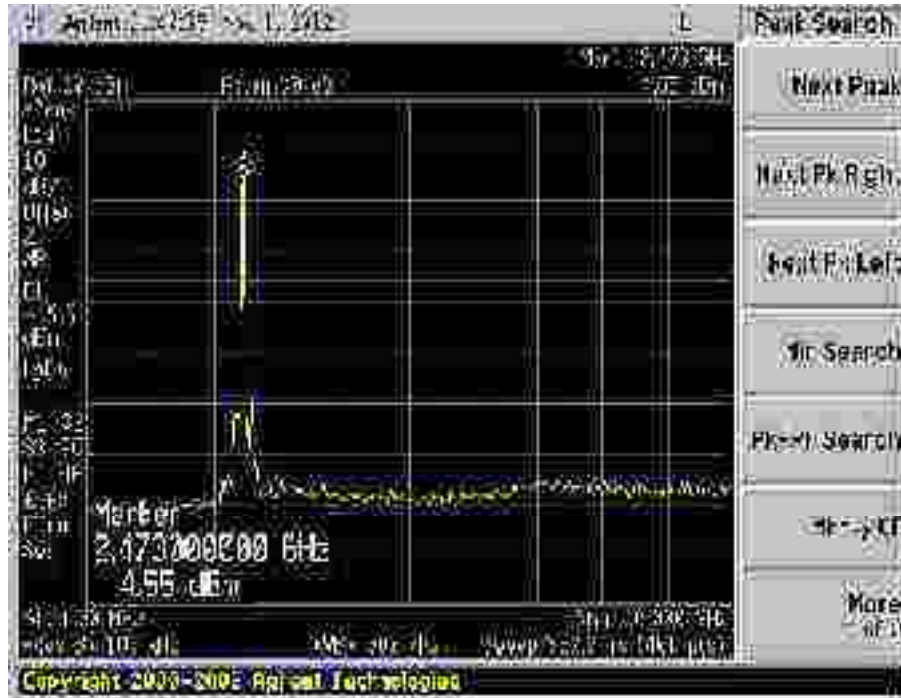


Plot 76 – Channel 11 (upper ch) @ CCK 11Mbps

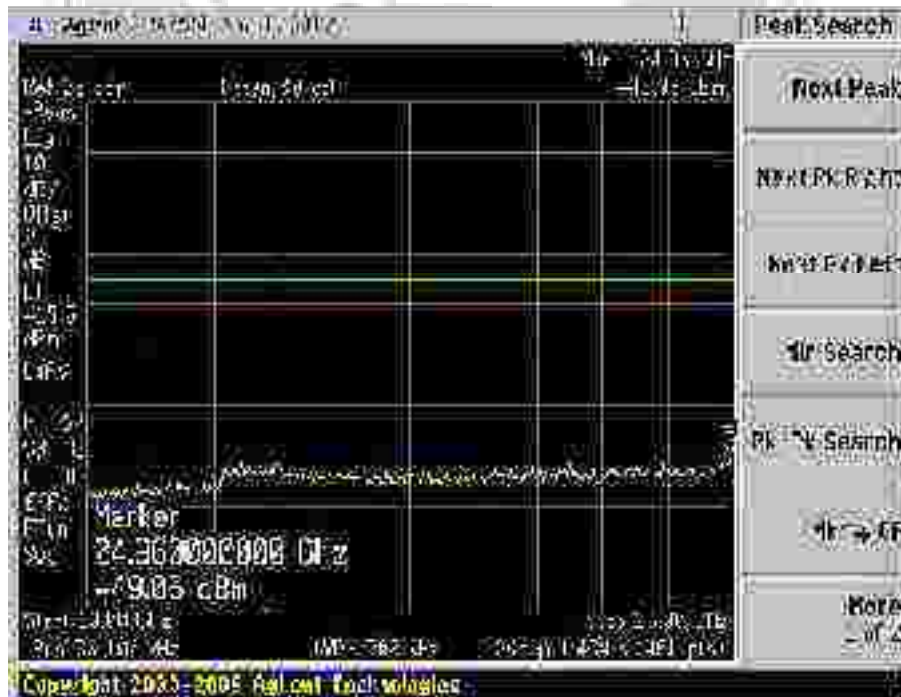


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 77 – Channel 11 (upper ch) @ BPSK 9Mbps

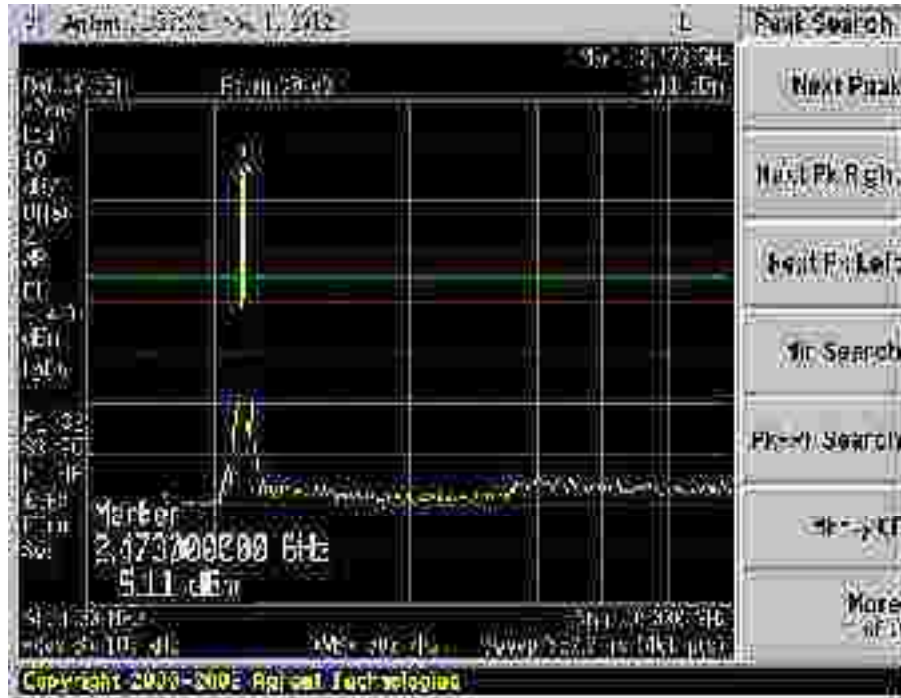


Plot 78 – Channel 11 (upper ch) @ BPSK 9Mbps

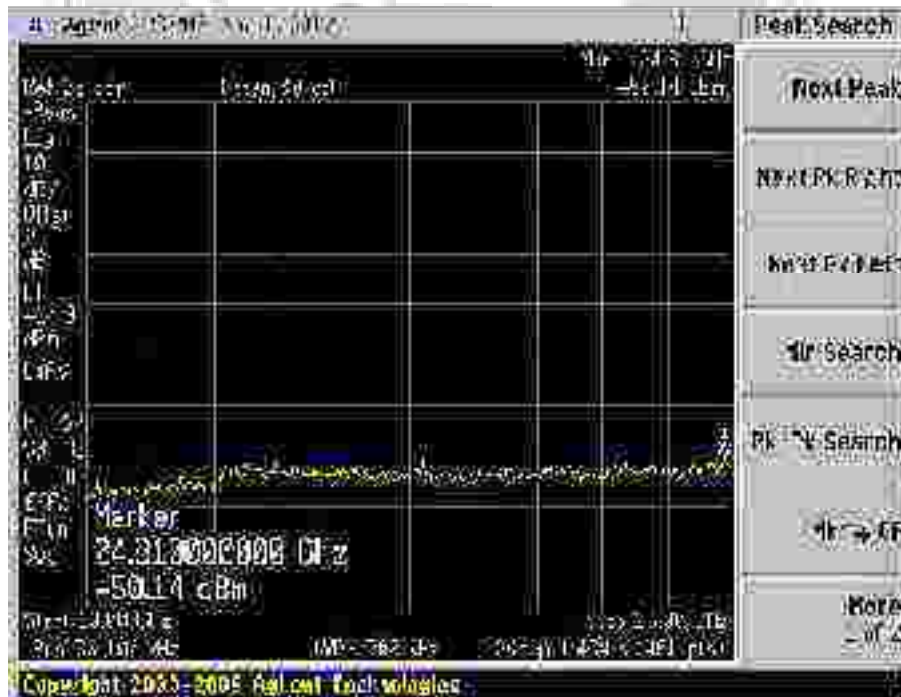


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot79 – Channel 11 (upper ch) @ QPSK 18Mbps

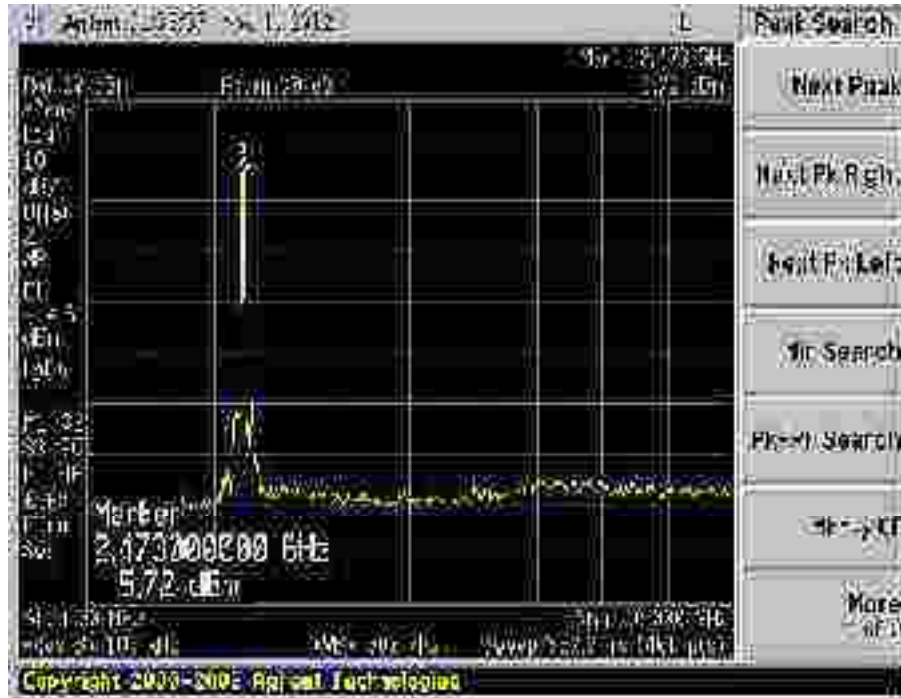


Plot80 – Channel 11 (upper ch) @ QPSK 18Mbps

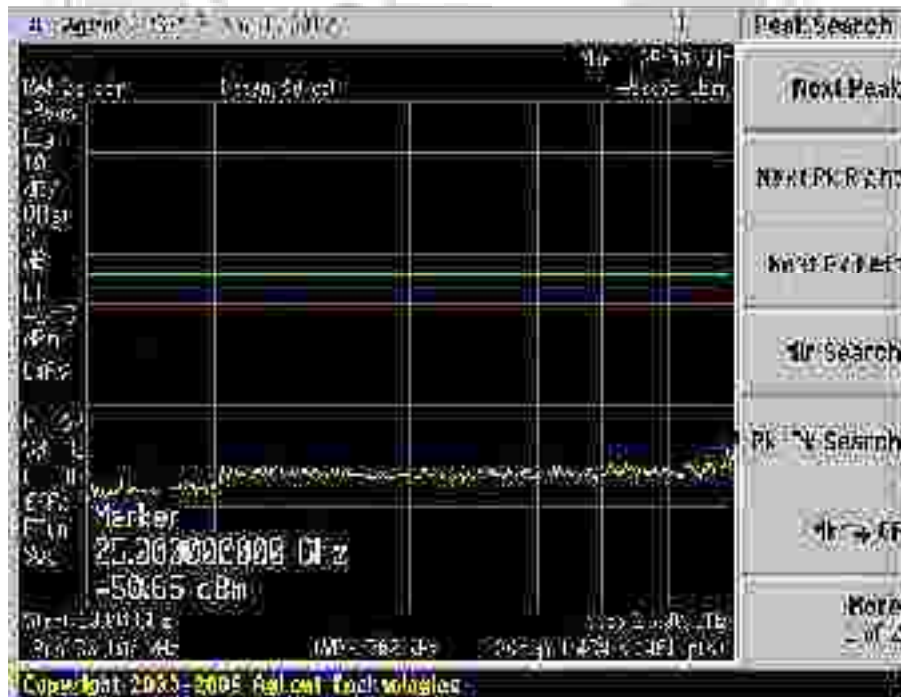


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 81 – Channel 11 (upper ch) @ 16QAM 36Mbps

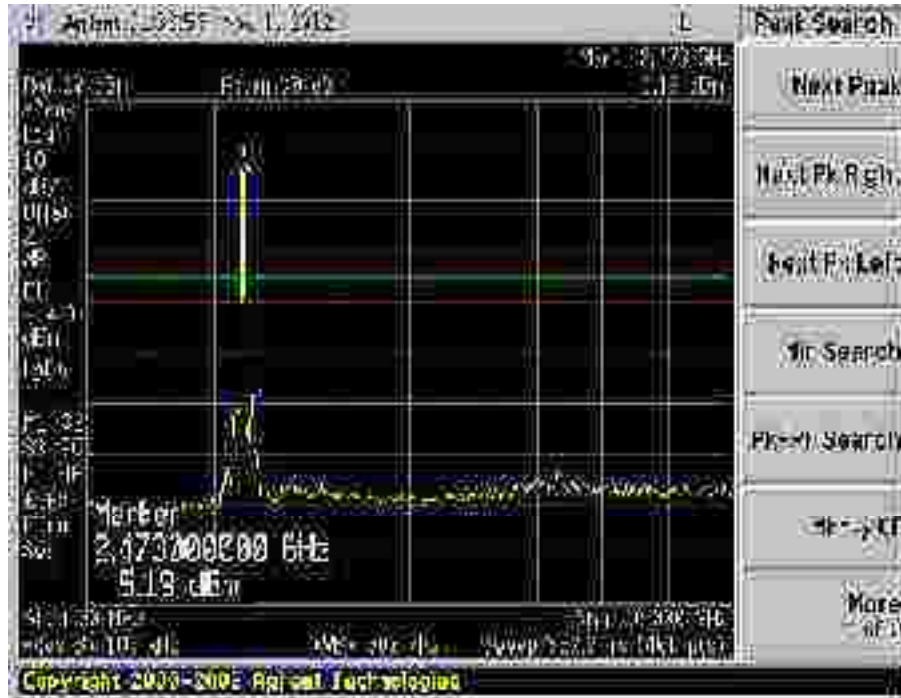


Plot 82 – Channel 11 (upper ch) @ 16QAM 36Mbps

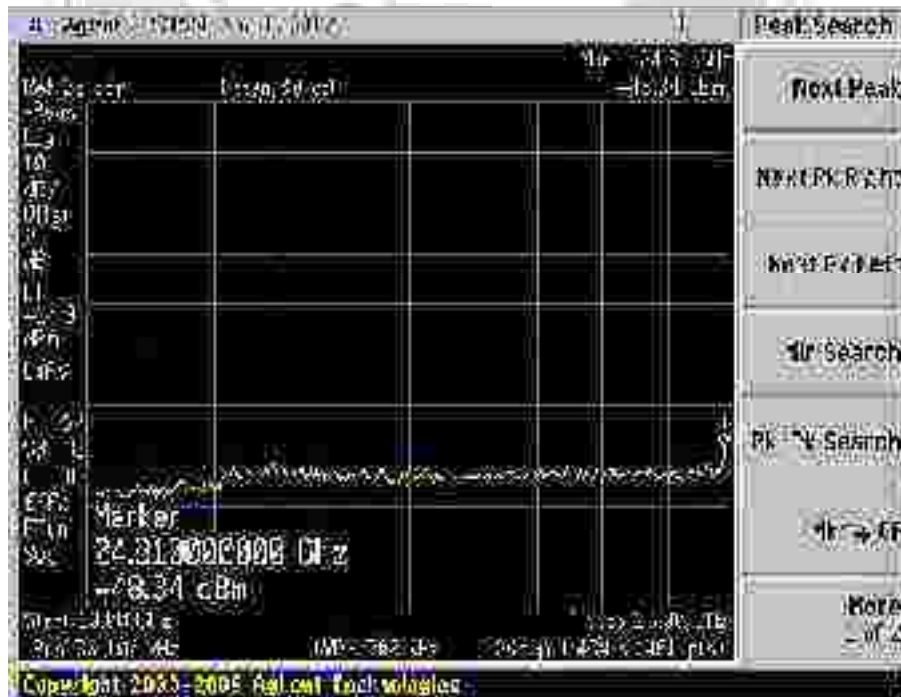


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 1)



Plot 83 – Channel 11 (upper ch) @ 64QAM 54Mbps

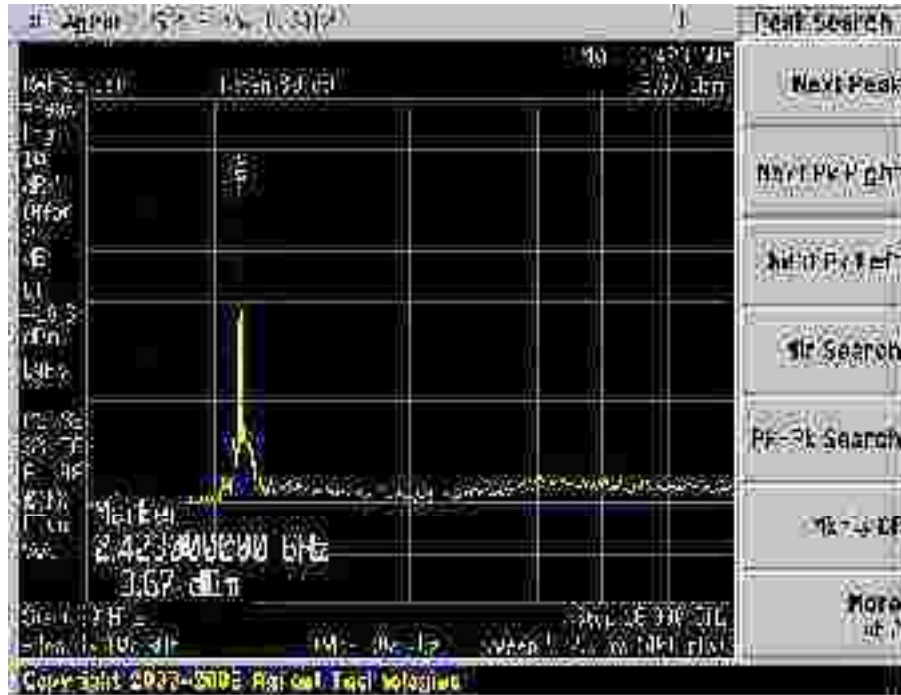


Plot 84 – Channel 11 (upper ch) @ 64QAM 54Mbps

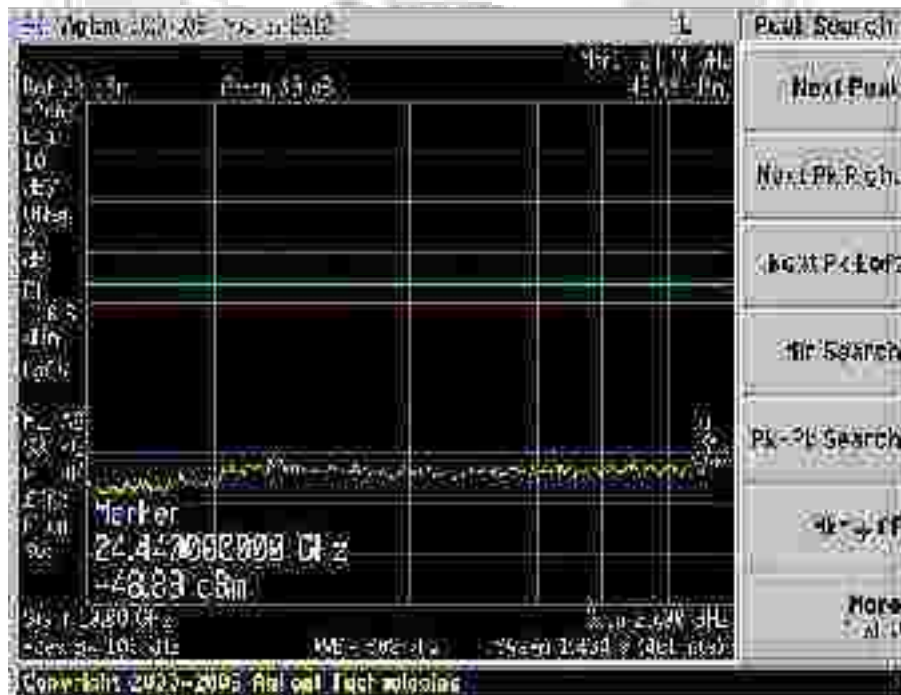


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 85 – Channel 1 (lower ch) @DBPSK 1Mbps

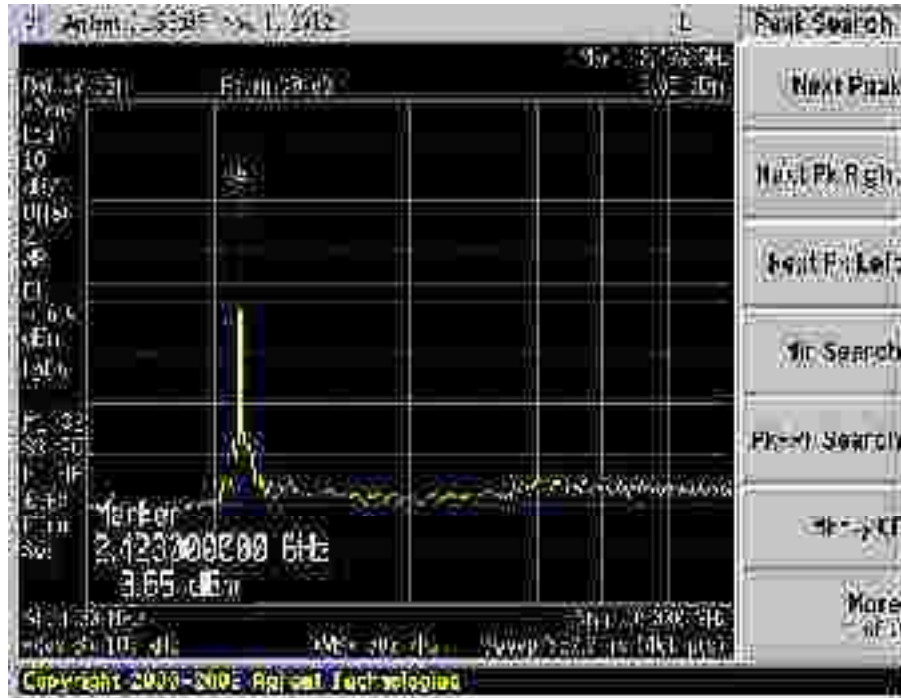


Plot 86 – Channel 1 (lower ch) @DBPSK 1Mbps

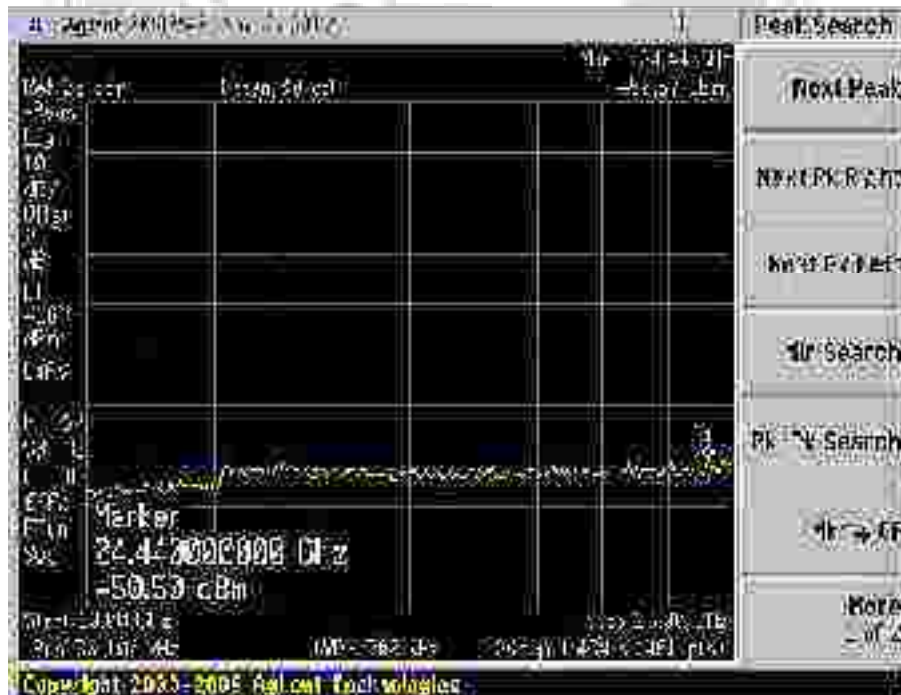


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 87 – Channel 1 (lower ch) @DQPSK 2Mbps

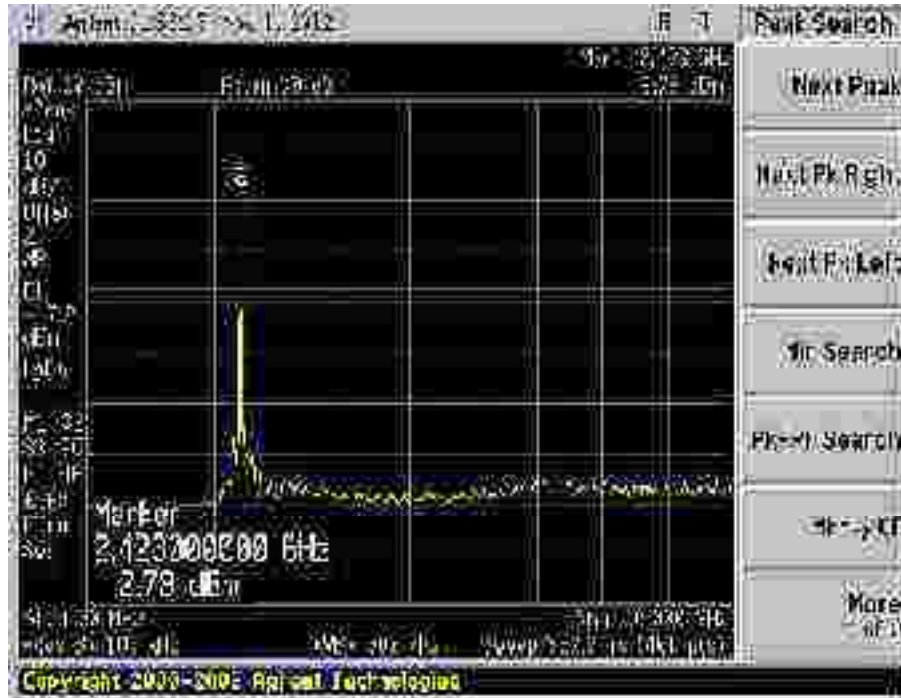


Plot 88 – Channel 1 (lower ch) @DQPSK 2Mbps

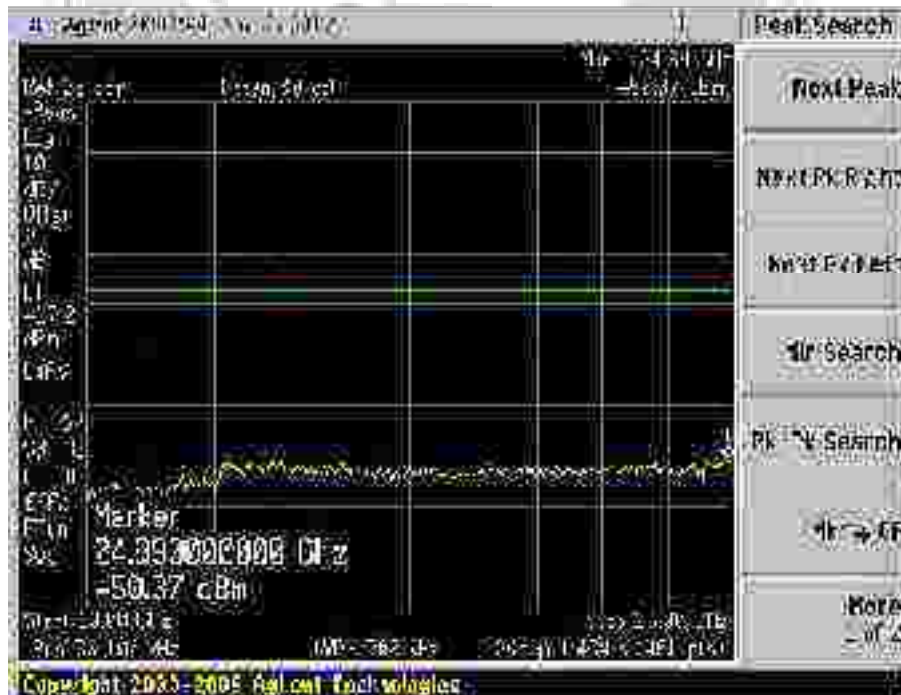


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 89 – Channel 1 (lower ch) @ CCK 11Mbps

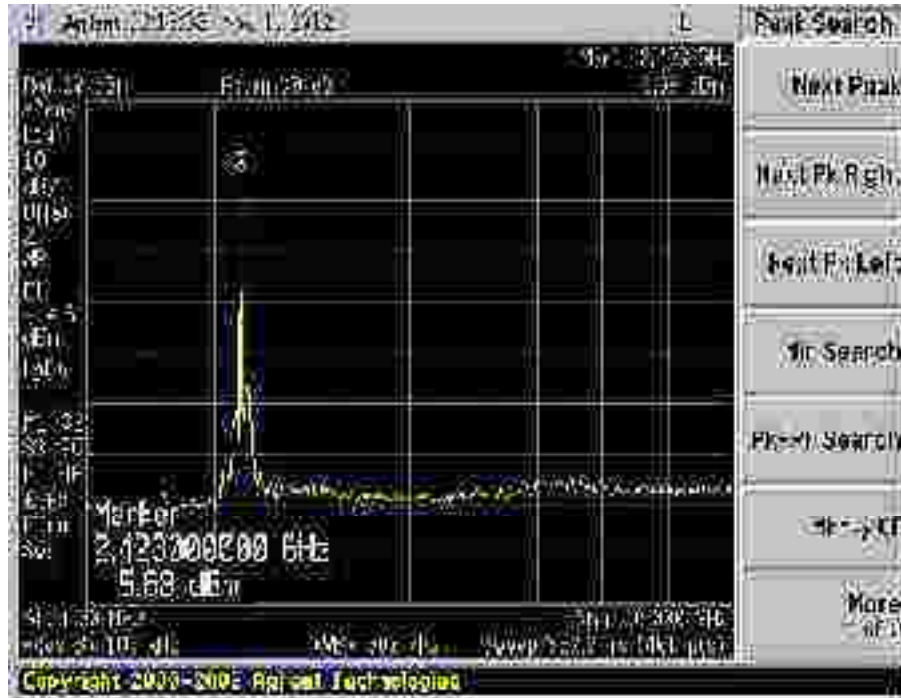


Plot 90 – Channel 1 (lower ch) @ CCK 11Mbps

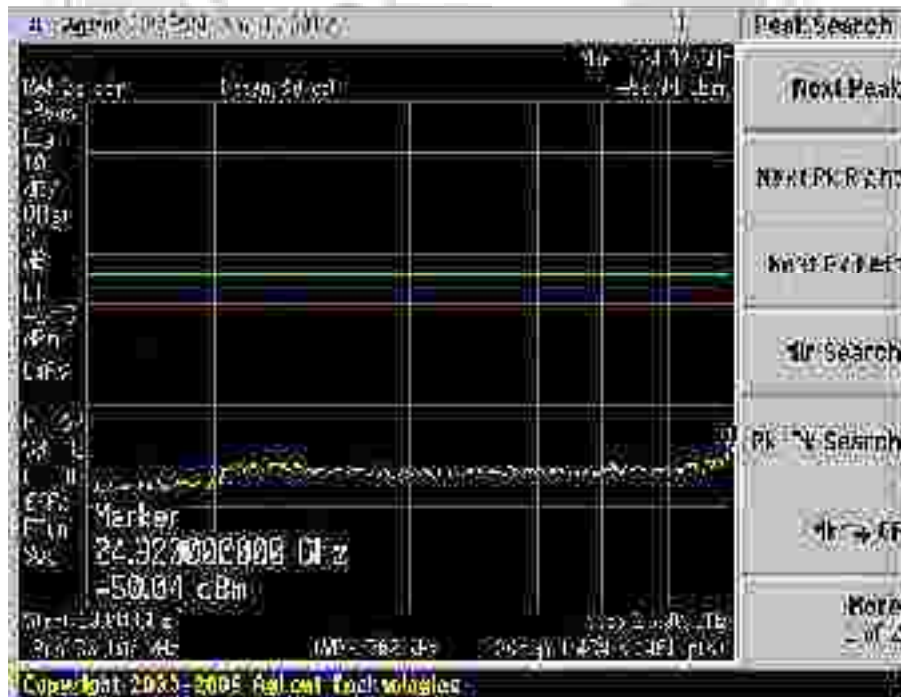


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 91 – Channel 1 (lower ch) @ BPSK 9Mbps

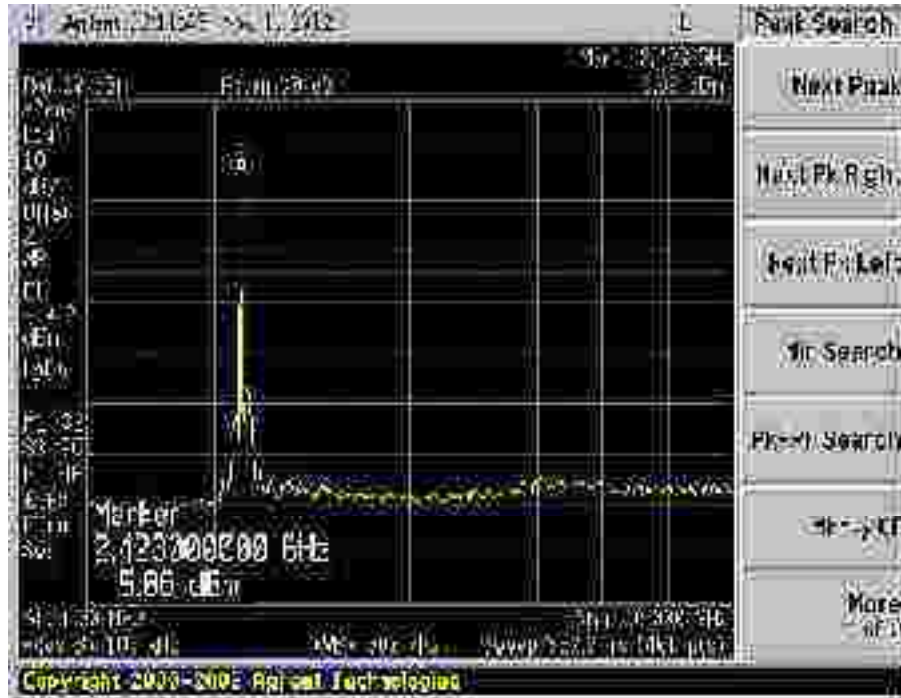


Plot 92 – Channel 1 (lower ch) @ BPSK 9Mbps

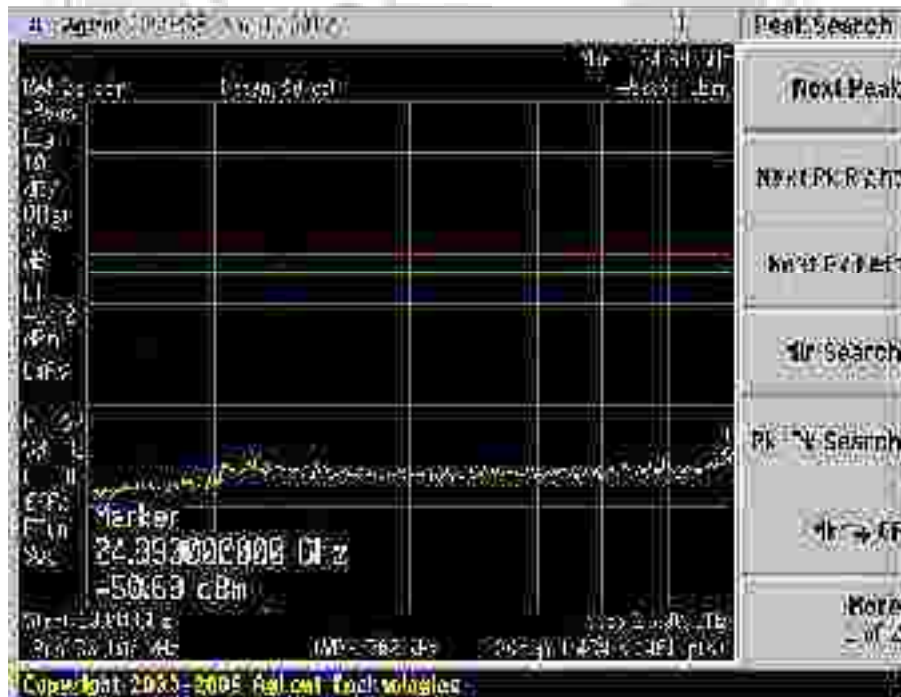


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 93 – Channel 1 (lower ch) @QPSK 18Mbps

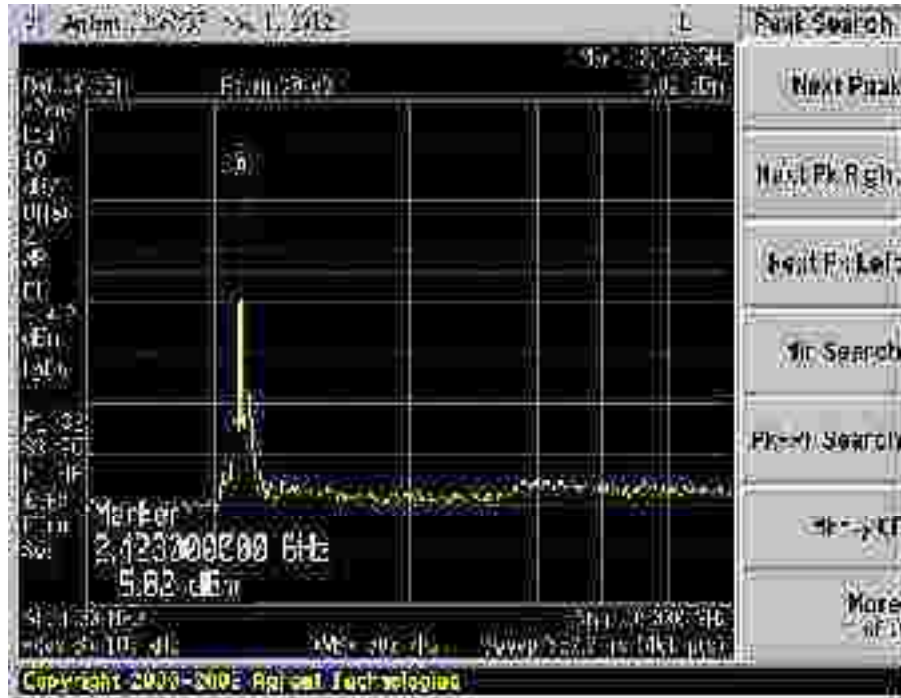


Plot 94 – Channel 1 (lower ch) @QPSK 18Mbps

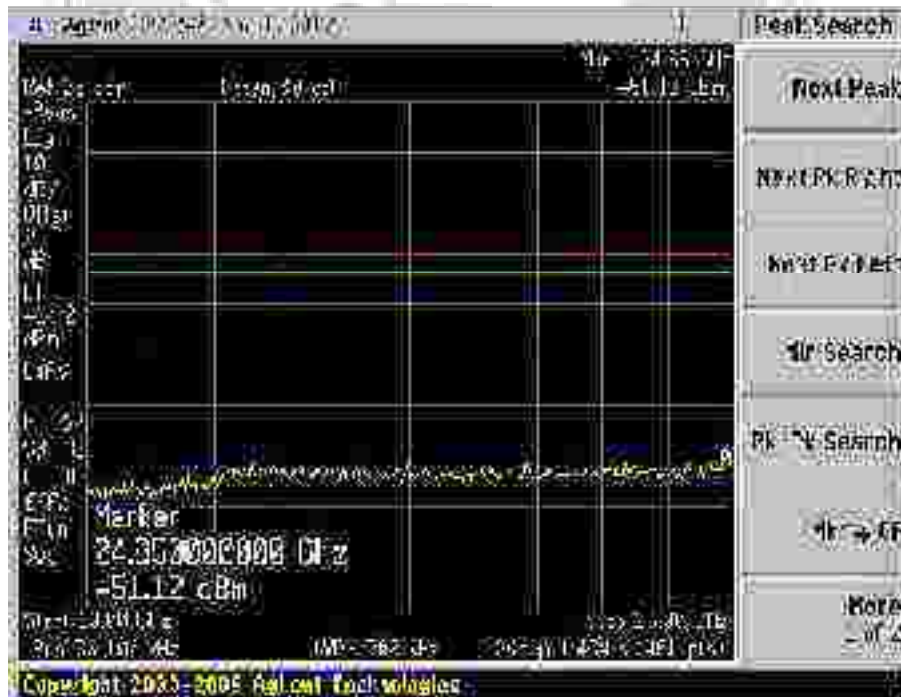


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 95 – Channel 1 (lower ch) @ 16QAM 36Mbps

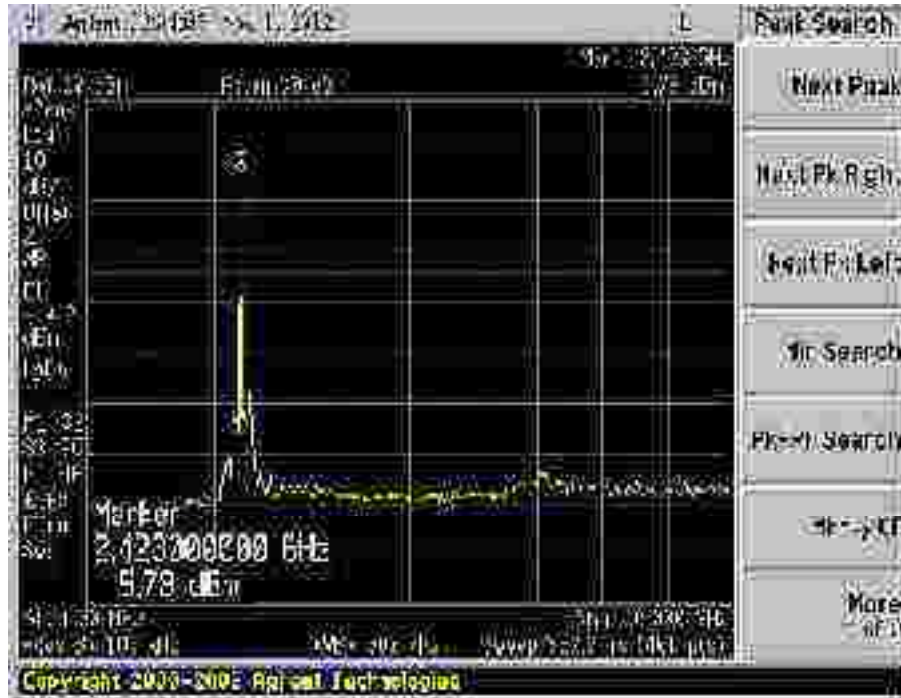


Plot 96 – Channel 1 (lower ch) @ 16QAM 36Mbps

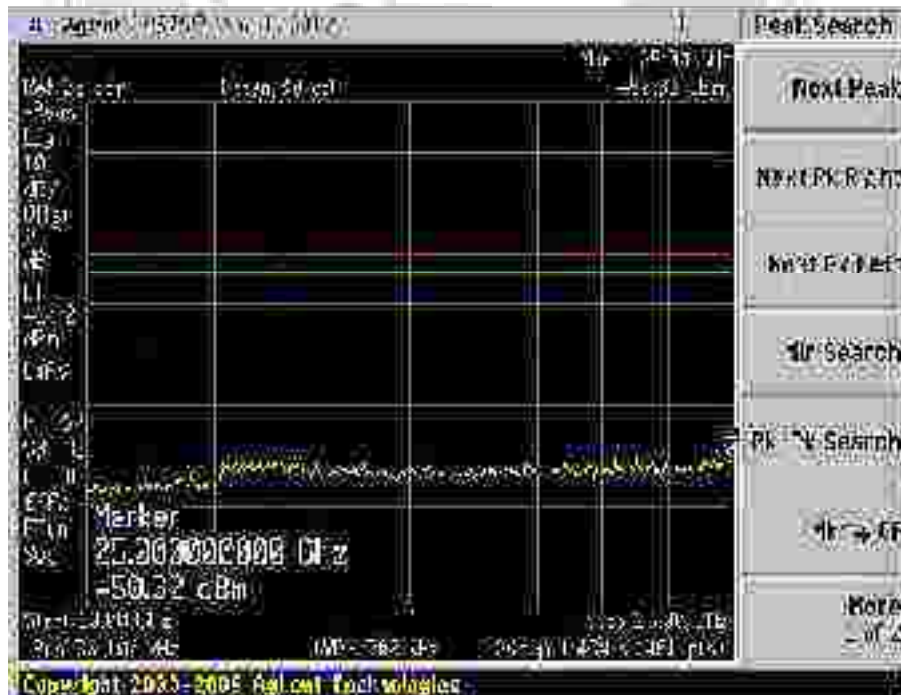


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 97 – Channel 1 (lower ch) @ 64QAM 54Mbps

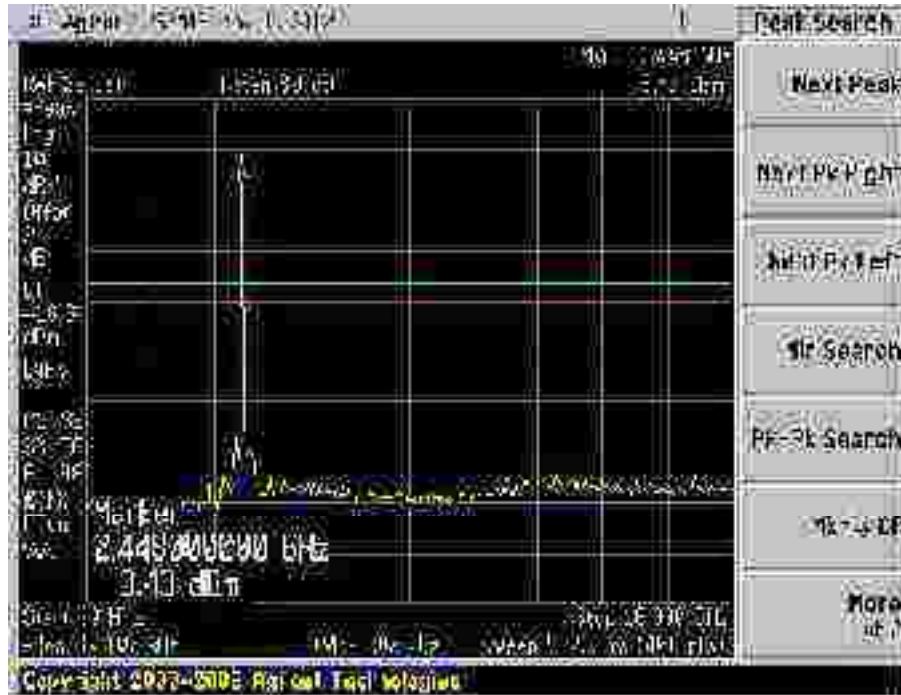


Plot 98 – Channel 1 (lower ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 99 – Channel 6 (middle ch) @ DBPSK 1Mbps

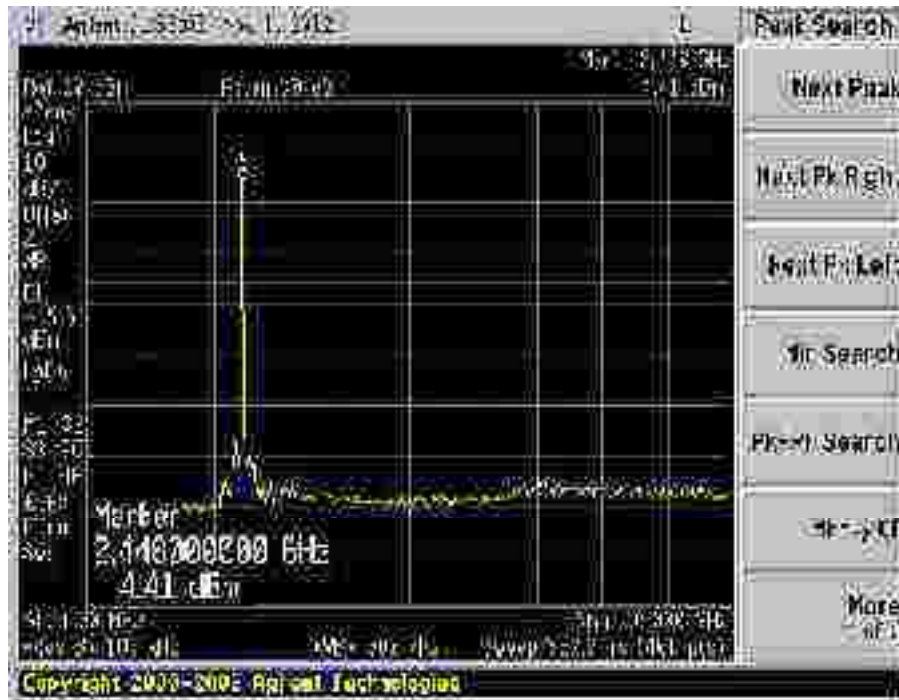


Plot 100 – Channel 6 (middle ch) @ DBPSK 1Mbps

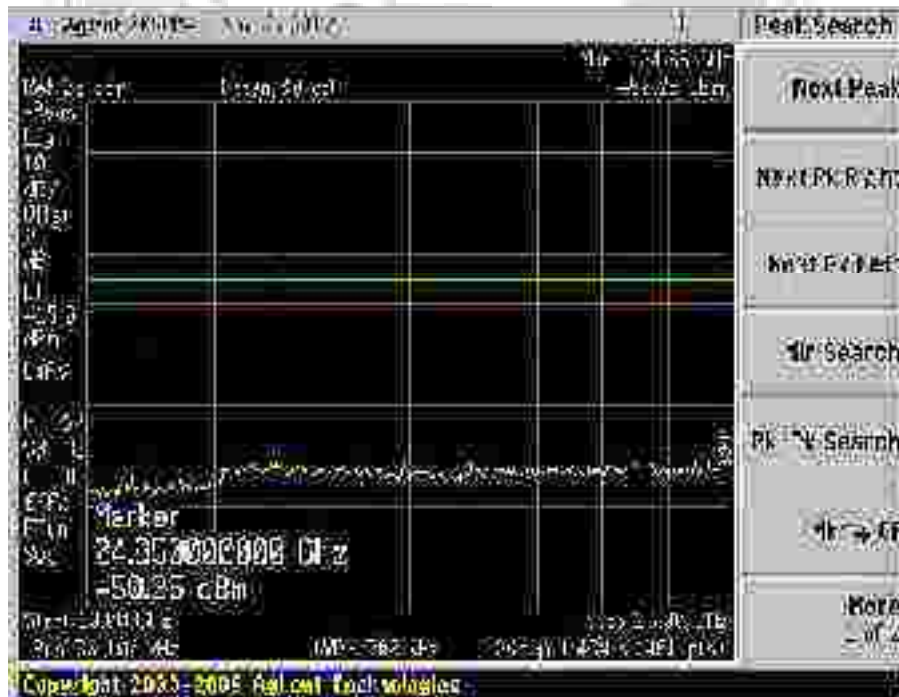


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 101 – Channel 6 (middle ch) @ DQPSK 2Mbps

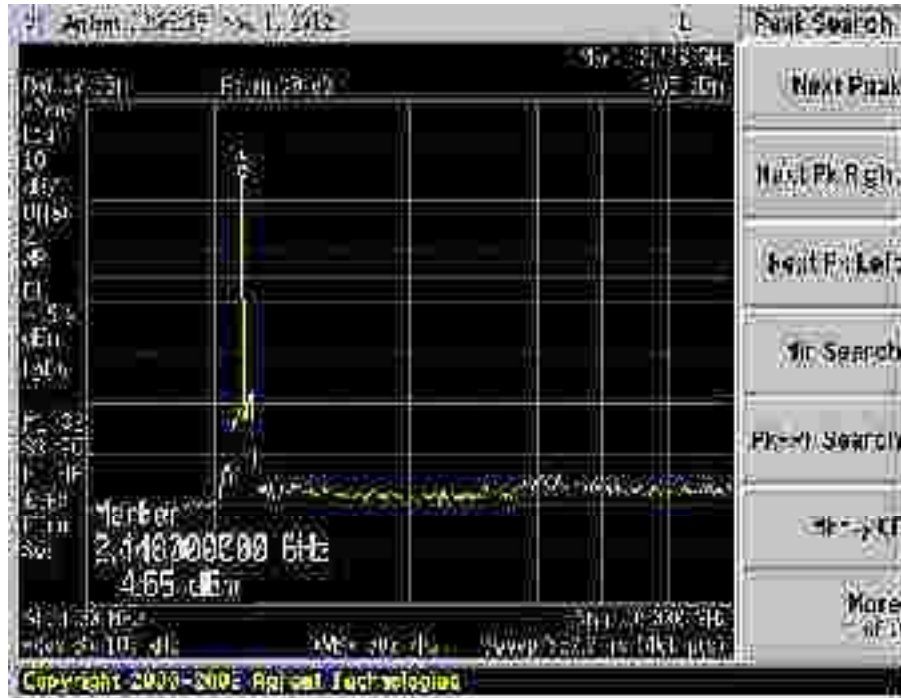


Plot 102 – Channel 6 (middle ch) @ DQPSK 2Mbps

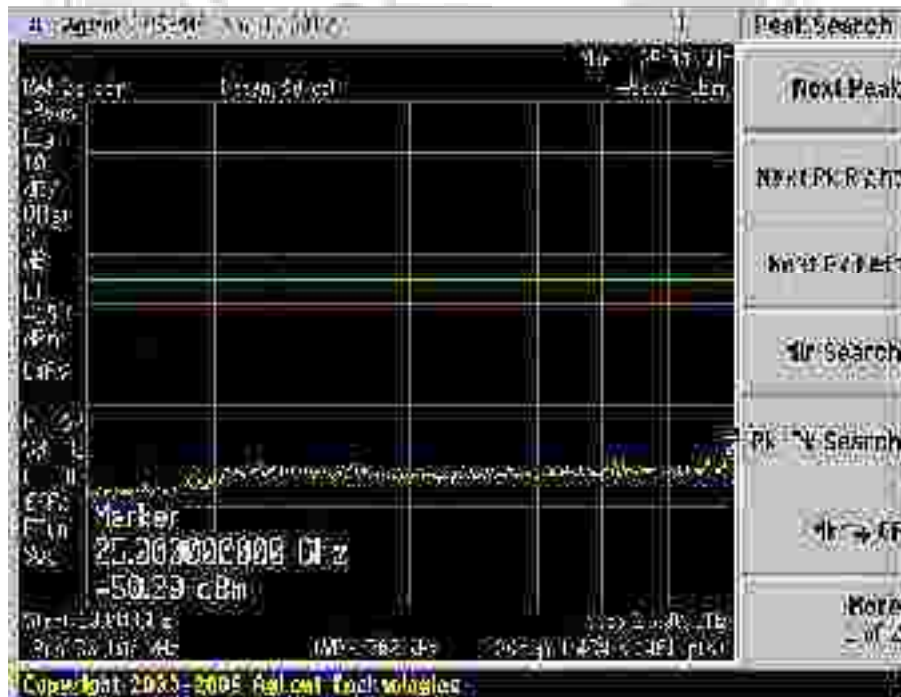


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 103 – Channel 6 (middle ch) @ CCK 11Mbps

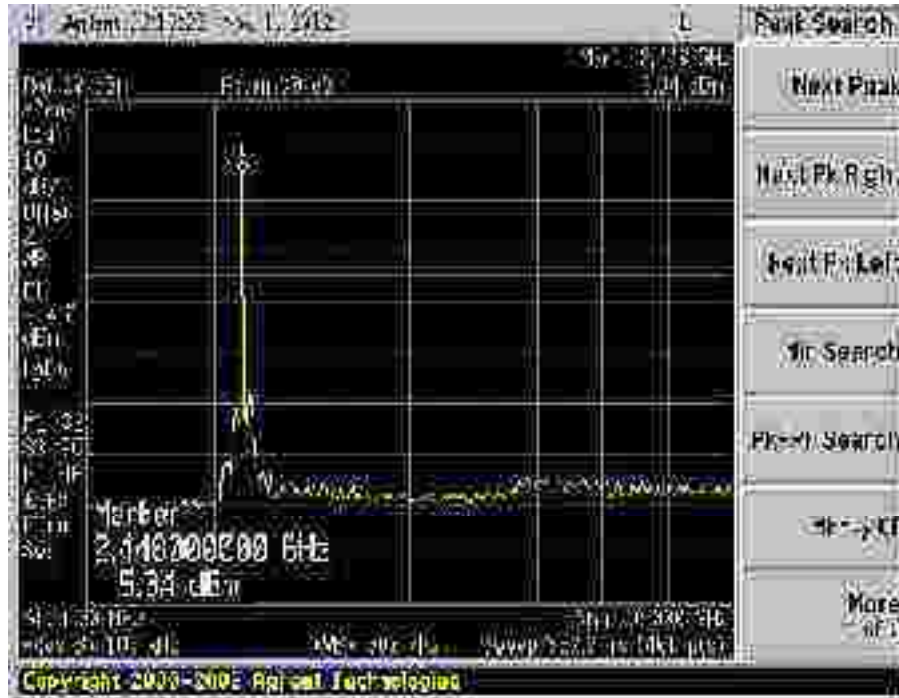


Plot 104 – Channel 6 (middle ch) @ CCK 11Mbps

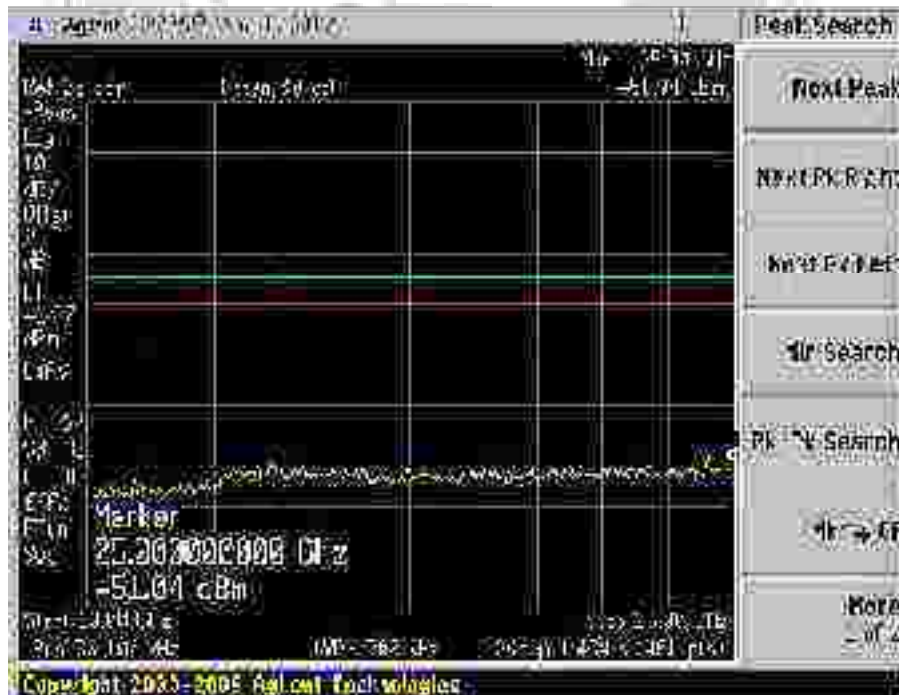


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 105 – Channel 6 (*middle ch*) @ BPSK 9Mbps

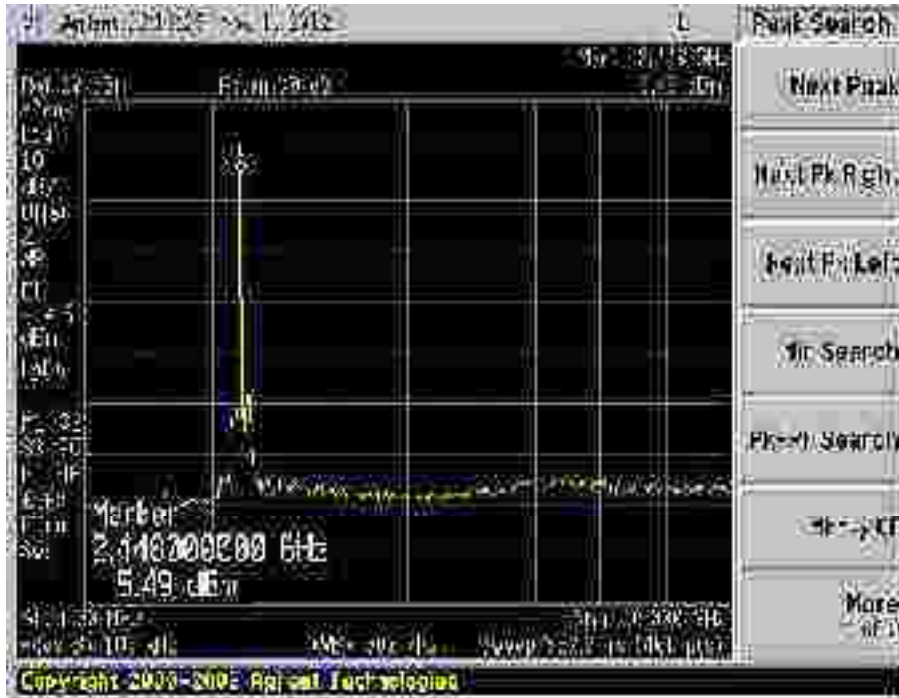


Plot 106 – Channel 6 (*middle ch*) @ BPSK 9Mbps

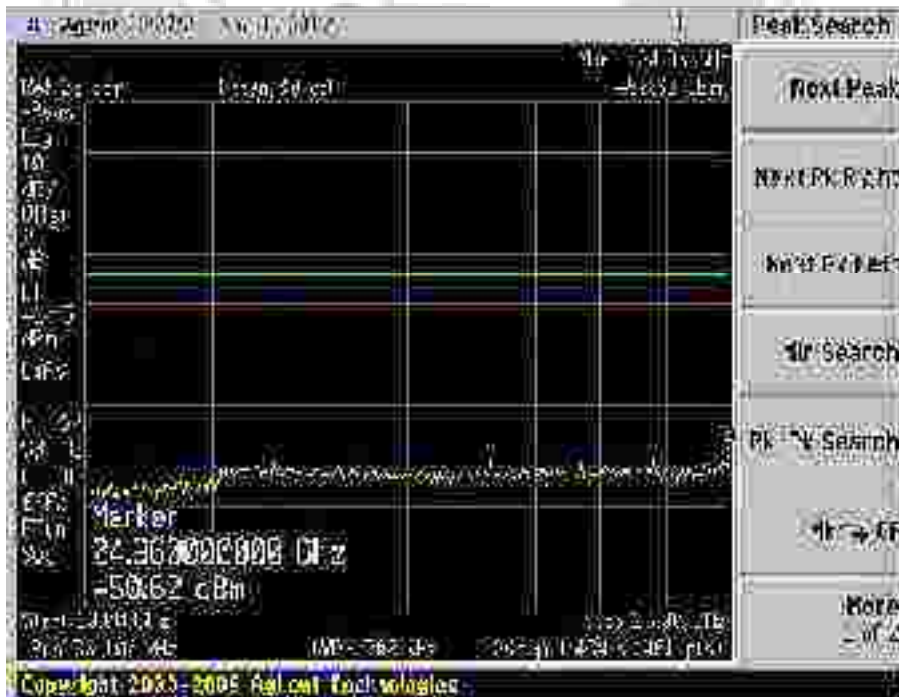


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 107 – Channel 6 (middle ch) @ QPSK 18Mbps

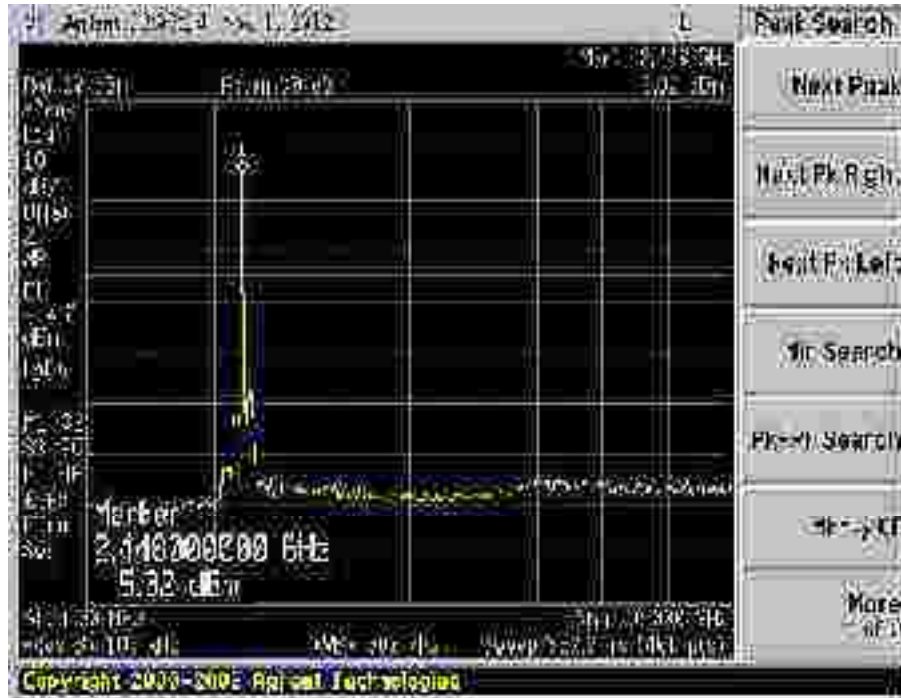


Plot 108 – Channel 6 (middle ch) @ QPSK 18Mbps

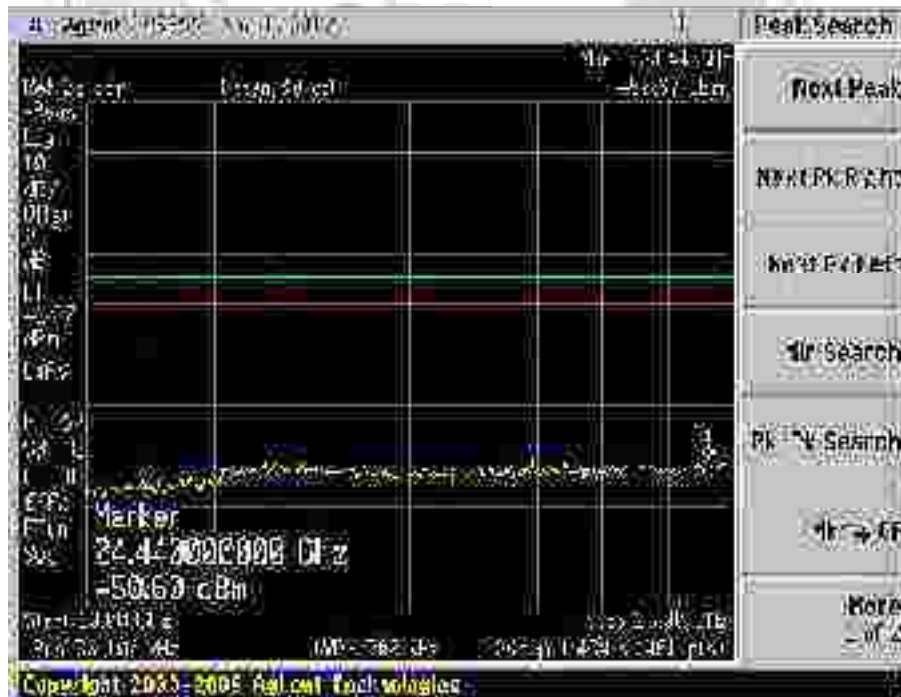


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 109 – Channel 6 (*middle ch*) @ 16QAM 36Mbps

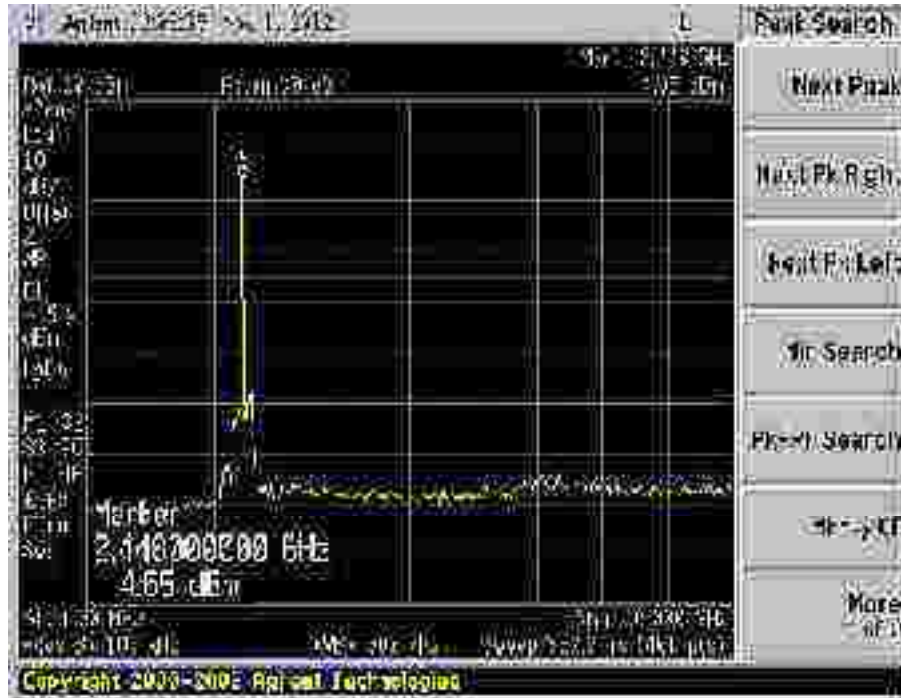


Plot 110 – Channel 6 (*middle ch*) @ 16QAM 36Mbps

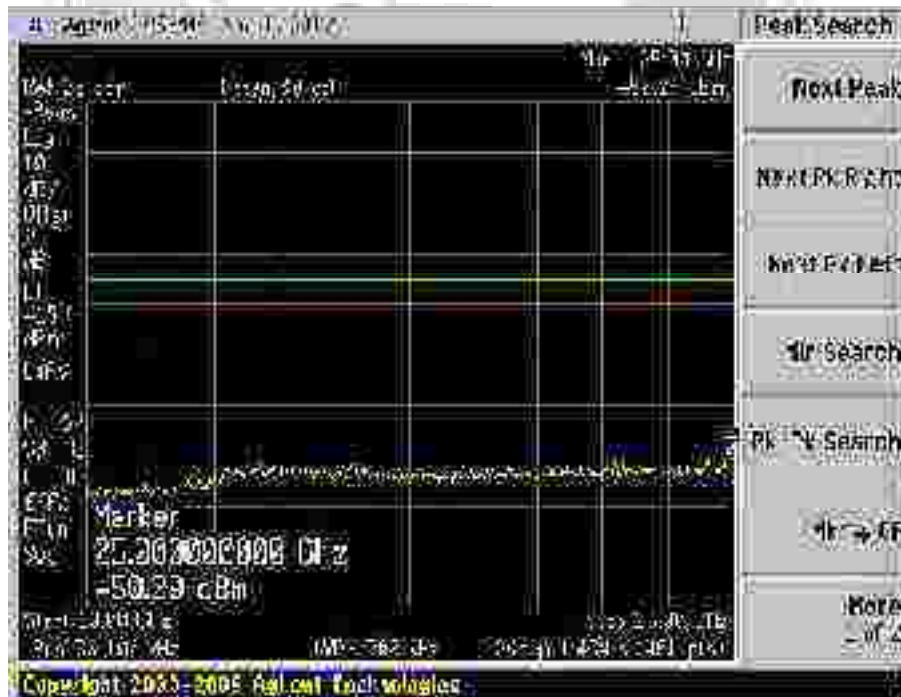


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 111 – Channel 6 (middle ch) @ 64QAM 54Mbps

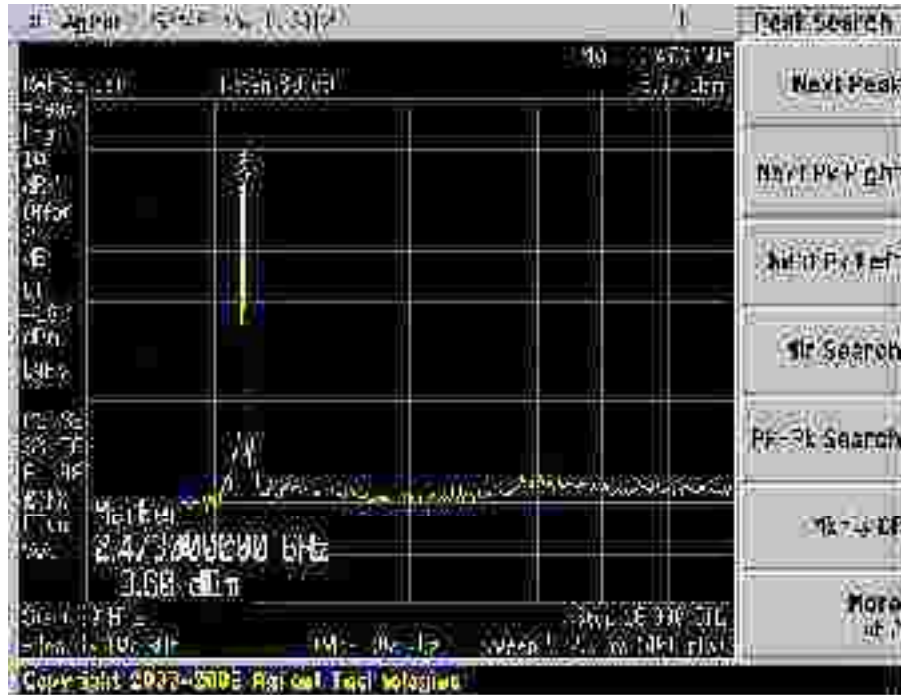


Plot 112 – Channel 6 (middle ch) @ 64QAM 54Mbps

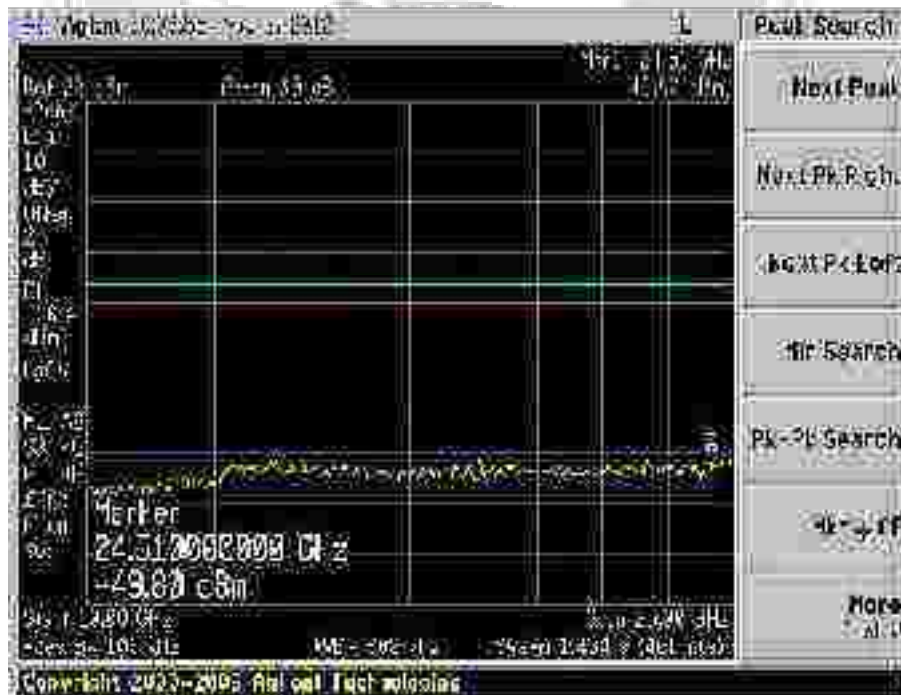


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 113 – Channel 11 (upper ch) @ DBPSK 1Mbps

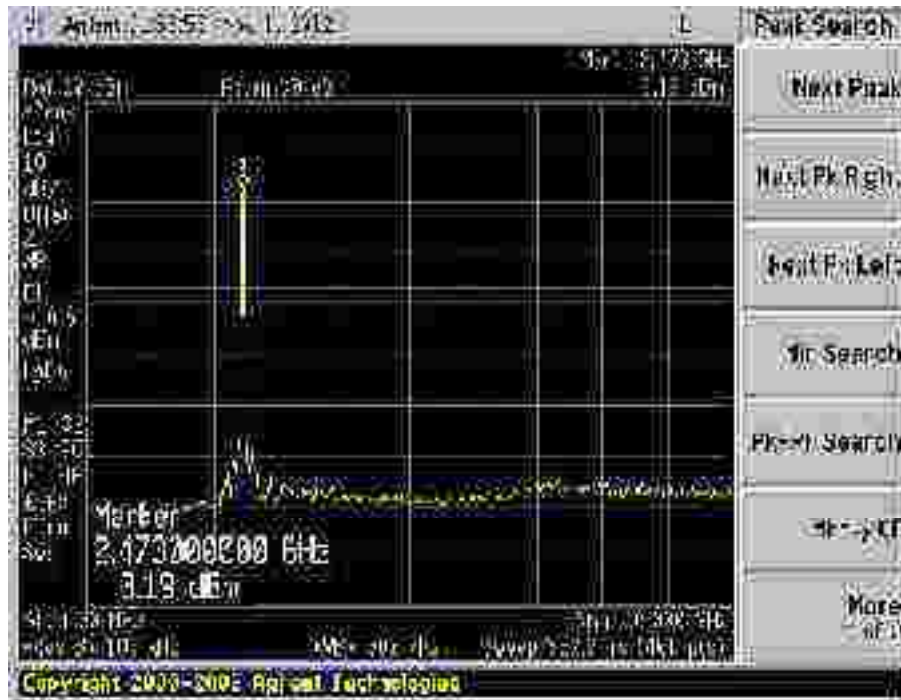


Plot 114 – Channel 11 (upper ch) @ DBPSK 1Mbps

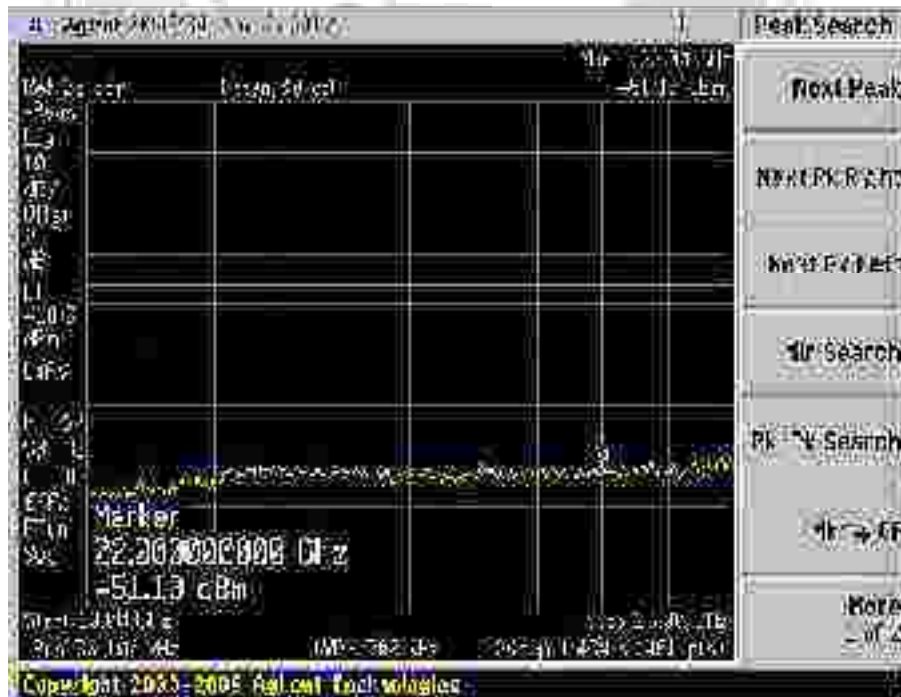


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 115 – Channel 11 (upper ch) @ DQPSK 2Mbps

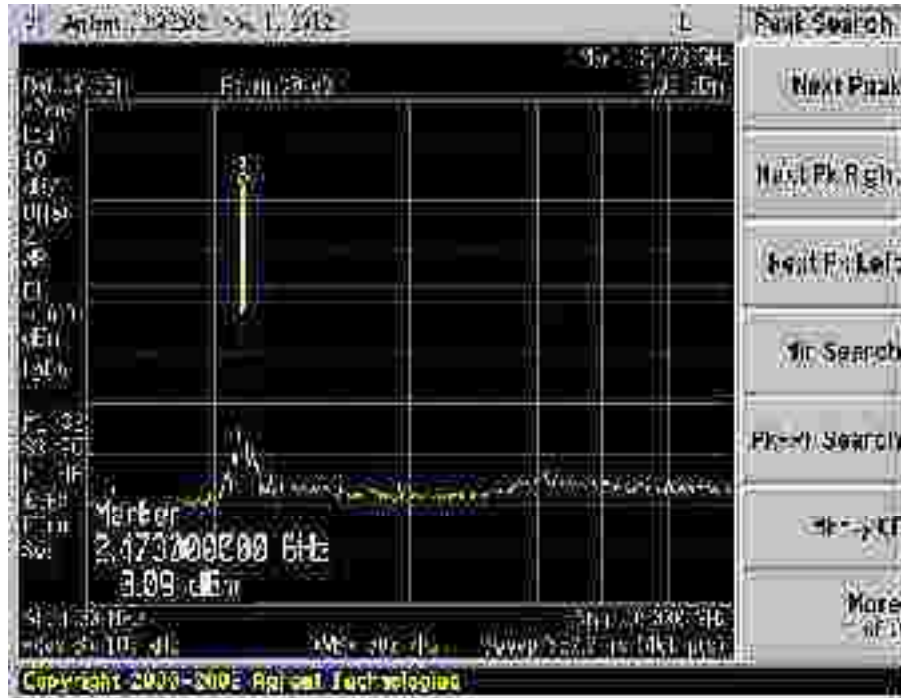


Plot 116 – Channel 11 (upper ch) @ DQPSK 2Mbps

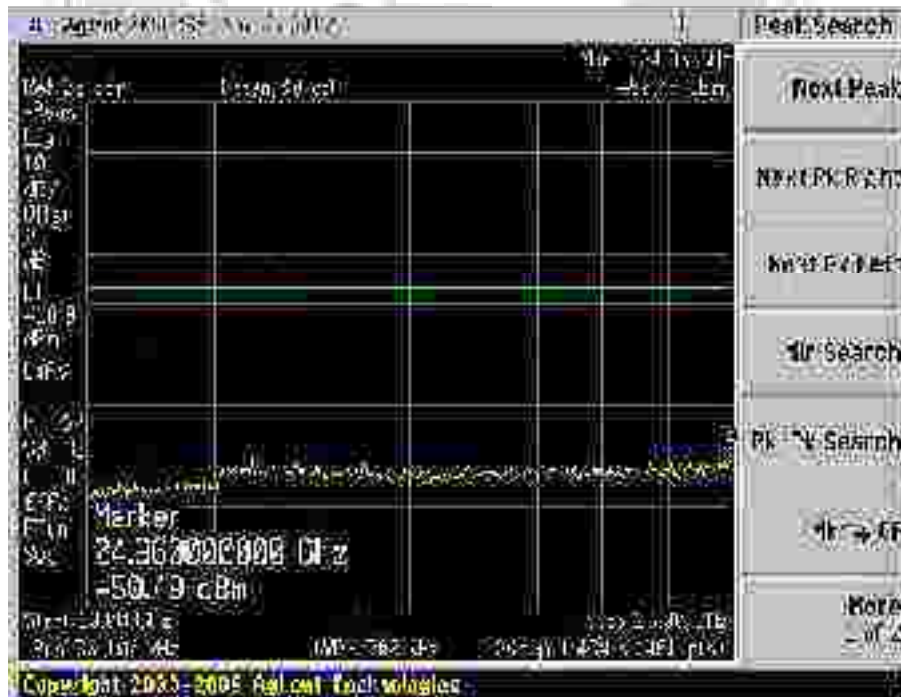


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 117 – Channel 11 (upper ch) @ CCK 11Mbps

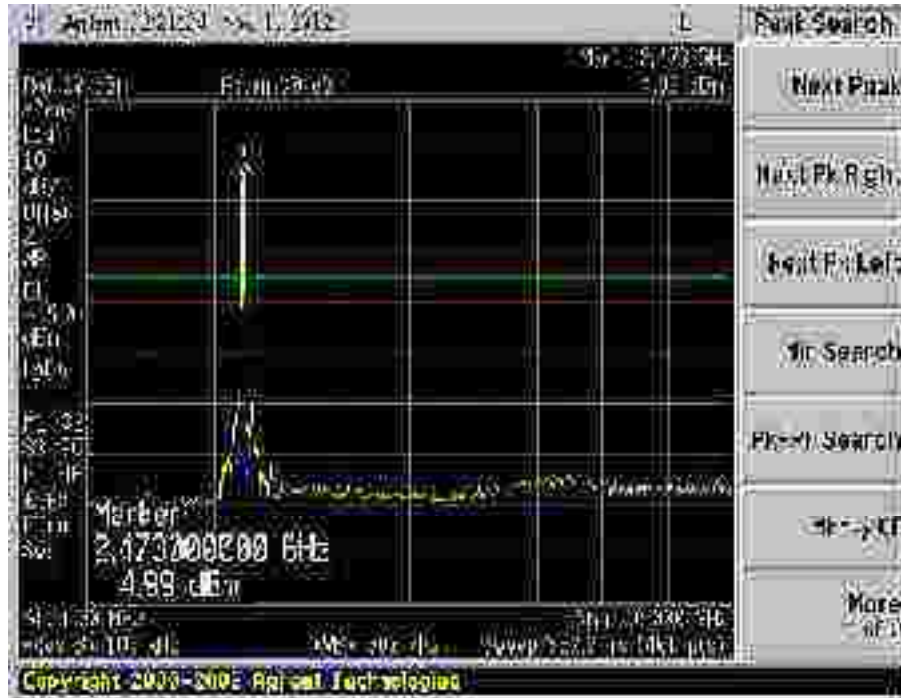


Plot 118 – Channel 11 (upper ch) @ CCK 11Mbps

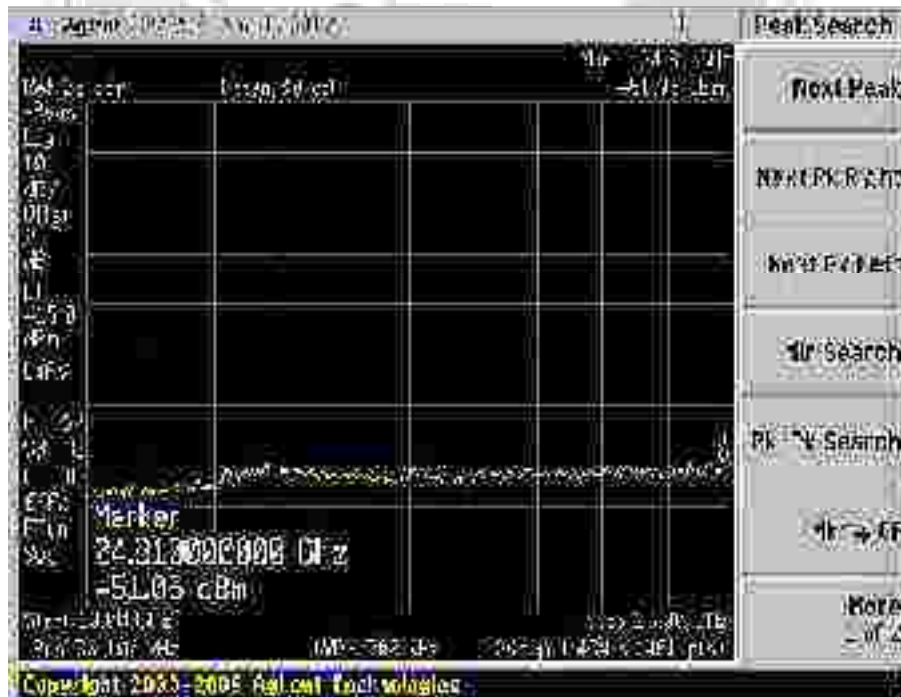


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 119 – Channel 11 (upper ch) @ BPSK 9Mbps

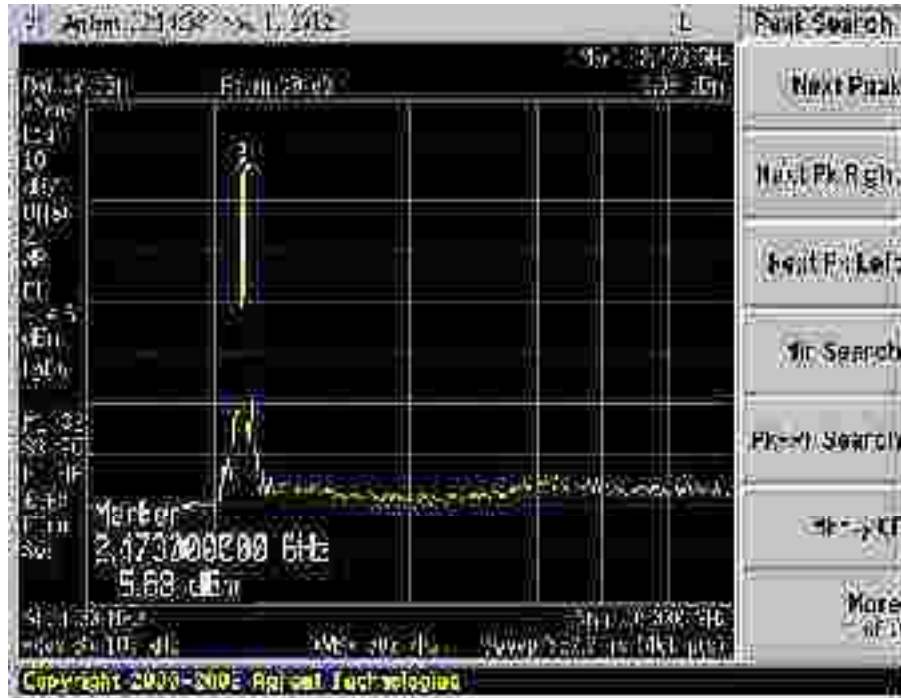


Plot 120 – Channel 11 (upper ch) @ BPSK 9Mbps

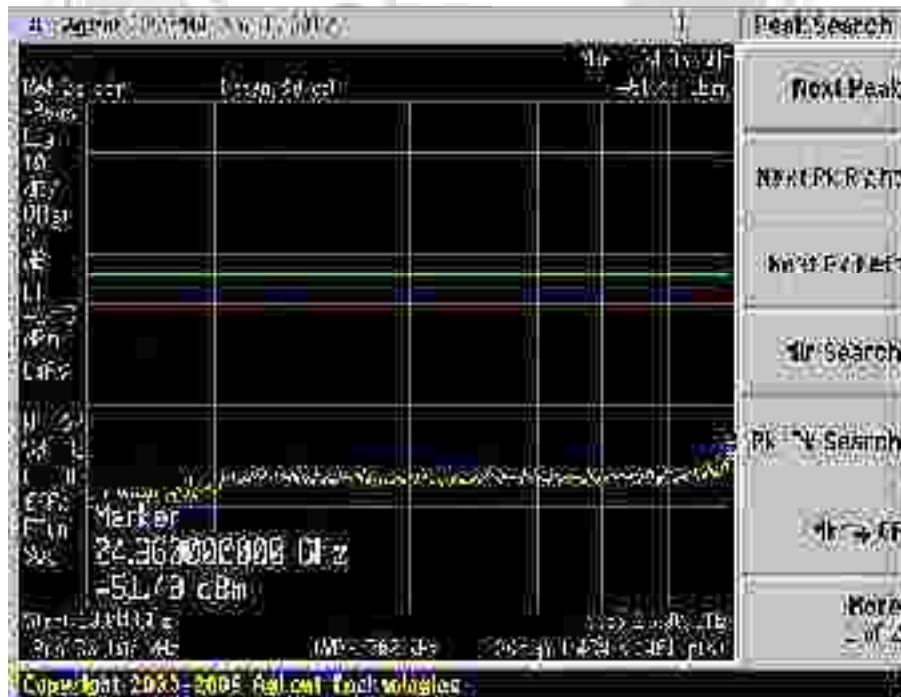


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 121 – Channel 11 (upper ch) @ QPSK 18Mbps

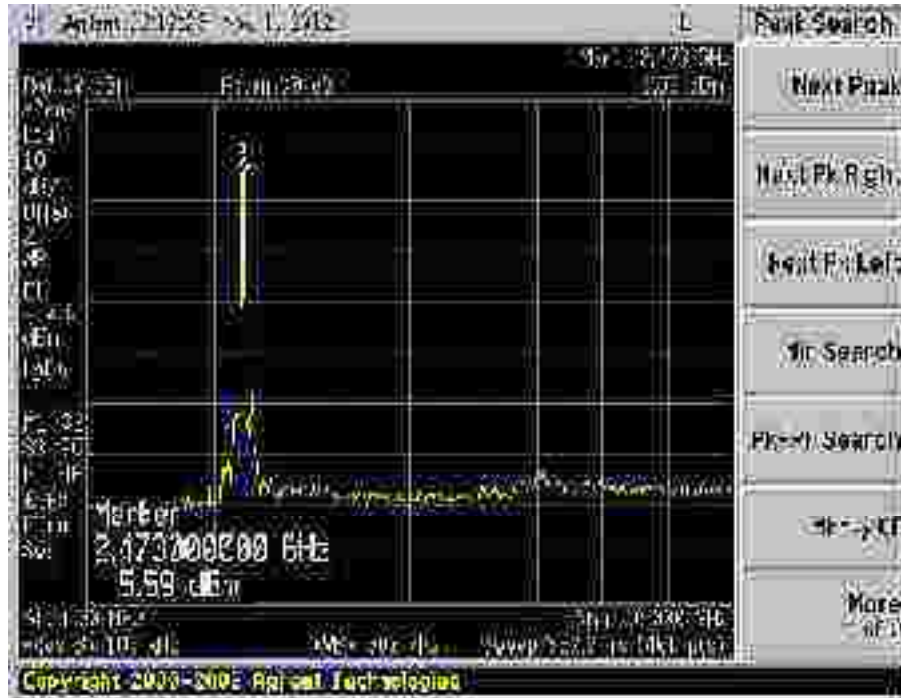


Plot 122 – Channel 11 (upper ch) @ QPSK 18Mbps

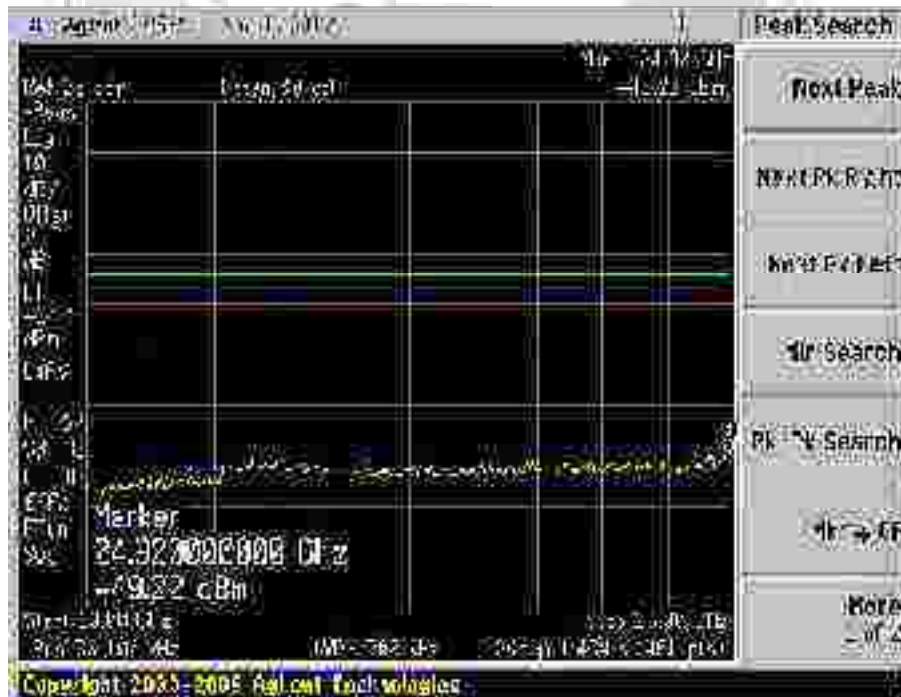


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 123 – Channel 11 (upper ch) @ 16QAM 36Mbps

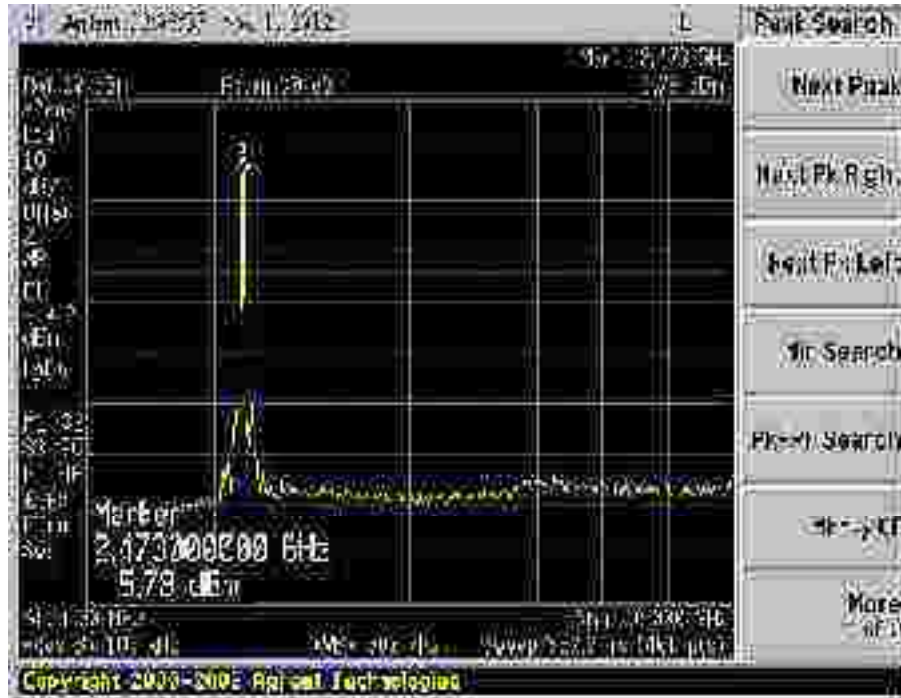


Plot 124 – Channel 11 (upper ch) @ 16QAM 36Mbps

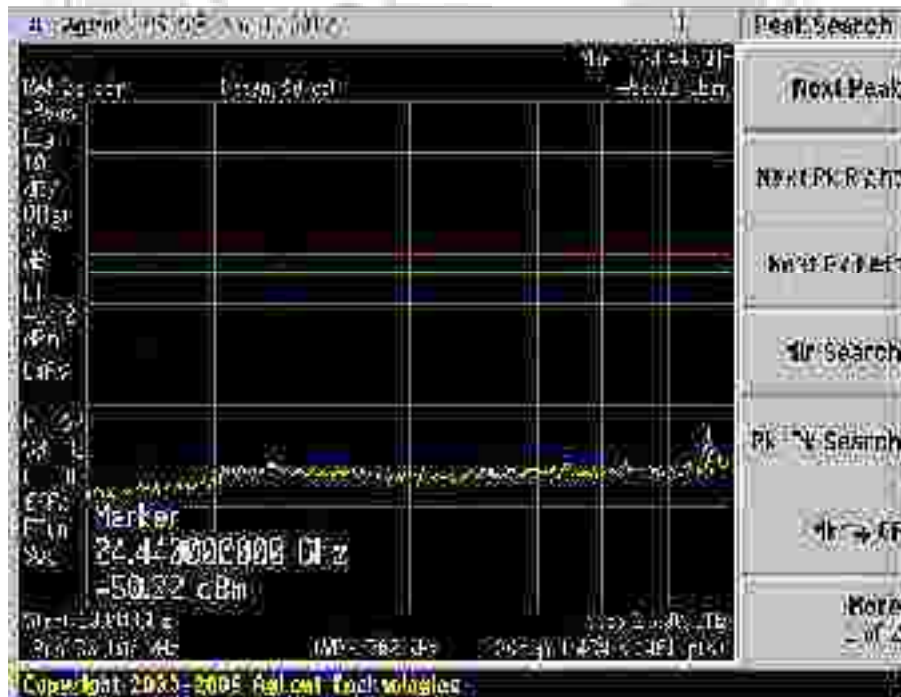


RF CONDUCTED SPURIOUS EMISSIONS (NON-RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Non-Restricted Bands) Plots (Antenna 2)



Plot 125 – Channel 11 (upper ch) @ 64QAM 54Mbps



Plot 126 – Channel 11 (upper ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

47 CFR FCC Part 15.205 Restricted Bands

MHz		MHz		MHz		GHz	
0.090	- 0.110	16.42	- 16.423	399.9	- 410	4.5	- 5.15
0.495	- 0.505	16.69475	- 16.69525	608	- 614	5.35	- 5.46
2.1735	- 2.1905	16.80425	- 16.80475	960	- 1240	7.25	- 7.75
4.125	- 4.128	25.5	- 25.67	1300	- 1427	8.025	- 8.5
4.17725	- 4.17775	37.5	- 38.25	1435	- 1626.5	9.0	- 9.2
4.20725	- 4.20775	73	- 74.6	1645.5	- 1646.5	9.3	- 9.5
6.215	- 6.218	74.8	- 75.2	1660	- 1710	10.6	- 12.7
6.26775	- 6.26825	108	- 121.94	1718.8	- 1722.2	13.25	- 13.4
6.31175	- 6.31225	123	- 138	2200	- 2300	14.47	- 14.5
8.291	- 8.294	149.9	- 150.05	2310	- 2390	15.35	- 16.2
8.362	- 8.366	156.52475	- 156.52525	2483.5	- 2500	17.7	- 21.4
8.37625	- 8.38675	156.7	- 156.9	2690	- 2900	22.01	- 23.12
8.41425	- 8.41475	162.0125	- 167.17	3260	- 3267	23.6	- 24.0
12.29	- 12.293	167.72	- 173.2	3332	- 3339	31.2	- 31.8
12.51975	- 12.52025	240	- 285	3345.8	- 3358	36.43	- 36.5
12.57675	- 12.57725	322	- 335.4	3600	- 4400	Above 38.6	
13.36	- 13.41						

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Restricted Bands) Limits

The EUT shows compliance to the requirements of this section, which states that emissions which fall in the restricted bands must comply with the radiated emission limits specified in the table below:

Frequency Range (MHz)	EIRP (dBm)	Radiated Emissions (dB µV/m)
0.009 – 0.490	-6.7 – (-41.4) **	67.6 – 20logF* @ 300m **
0.490 – 1.705	-41.4 – (-52.3) **	87.6 – 20logF* @ 30m **
1.705 – 30	-45.7	29.5 @ 30m
30 - 88	-55.2	40.0 @ 3m
88 - 216	-51.7	43.5 @ 3m
216 - 960	-49.2	46.0 @ 3m
>960	-41.2 ***	54.0 @ 3m ***

* F is frequency in kHz.
** Decreasing linearly with the logarithm of the frequency.
*** Above 1GHz, a peak limit of 20dB above the average limit does apply.

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Restricted Bands) Test Instrumentation

Instrument	Model	S/No	Cal Due Date
Agilent Spectrum Analyzer	E4440A	MY45304764	20 Jun 2013



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Restricted Bands) Test Setup

1. The EUT and supporting equipment were set up as shown in the setup photo.
2. The power supply for the EUT was connected to a filtered mains.
3. The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
4. The resolution bandwidth (RBW) of the spectrum analyser was set to the following settings. The video bandwidth (VBW) was set to at least three times of the RBW.

Frequency (MHz)	RBW (kHz)
0.009 – 0.150	0.2
0.150 – 30.0	9.0
30.0 - 1000	100.0
> 1000	1000.0

5. The detector of the spectrum analyser was set to peak detection mode.
6. All other supporting equipment were powered separately from another filtered mains.

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Restricted Bands) Test Method

1. Measurement in the range 9kHz – 1000MHz
 - 1.1 The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode, with the transmitting frequency was set to lower channel with specified modulation and data rate.
 - 1.2 The start and stop frequencies of the spectrum analyser were set according to the supported RBW.
 - 1.3 The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected.
 - 1.4 No further measurement was required if all the captured emissions complied to the limits. Else, the spectrum analyser was set to zoom to the captured emission with the detector of the spectrum analyser was set to quasi-peak. The emission level of the captured frequency was measured.
 - 1.5 The step 1.4 was repeated until all the captured emissions which exceeding the limits were measured.
 - 1.6 Repeat steps 1.1 to 1.5 with all possible modulations and data rates.
 - 1.7 The steps 1.2 to 1.6 were repeated with the transmitting frequency was set to middle and upper channel respectively.
2. Measurement above 1000MHz
 - 2.1 The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode, with the transmitting frequency was set to lower channel with specified modulation and data rate..
 - 2.2 The start and stop frequencies of the spectrum analyser were set according to the supported frequency band of the set RBW with the number of points in a sweep was set to equal or greater than 2 times of the ratio of span over RBW.
 - 2.3 The detector of the spectrum analyser was set to power average (RMS) mode with the sweep time was set to equal or greater than 10 times of the product of number of measurement points in a sweep and transmission symbol time.
 - 2.4 The spectrum analyser was then allowed to capture any spurious emissions within a single sweep. The peak marker function of the spectrum analyser was used to locate the highest power level.
 - 2.5 The steps 2.2 to 2.4 were repeated until all the required frequency bands were measured.
 - 2.6 Repeat steps 2.1 to 2.5 with all possible modulations and data rates.
 - 2.7 The steps 2.2 to 2.6 were repeated with the transmitting frequency was set to middle and upper channel respectively.
 - 2.8 The measurements were repeated with the detector of the spectrum analyser was set to peak detecting mode. The sweep time was set to auto coupler.



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST



RF Conducted Spurious Emissions (Restricted Bands) Test Setup

47 CFR FCC Part 15.247(d) RF Conducted Spurious Emissions (Restricted Bands) Results

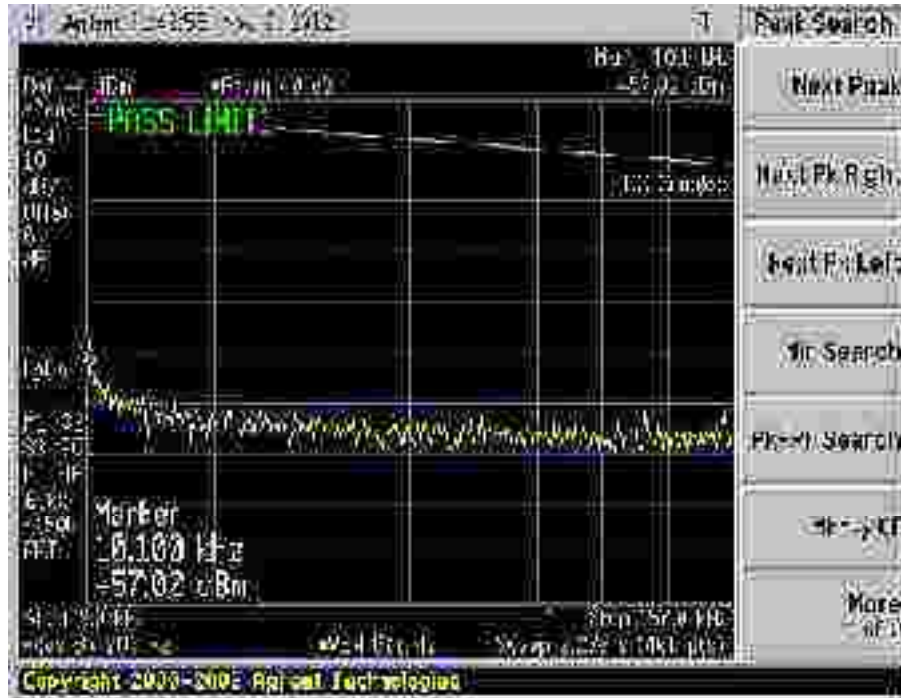
Test Input Power	110V 60Hz	Temperature	24°C
Attached Plots	127 – 335 (Antenna 1)	Relative Humidity	60%
	336 – 548 (Antenna 2)	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein

All spurious signals found were below the specified limit. Please refer to the attached plots.

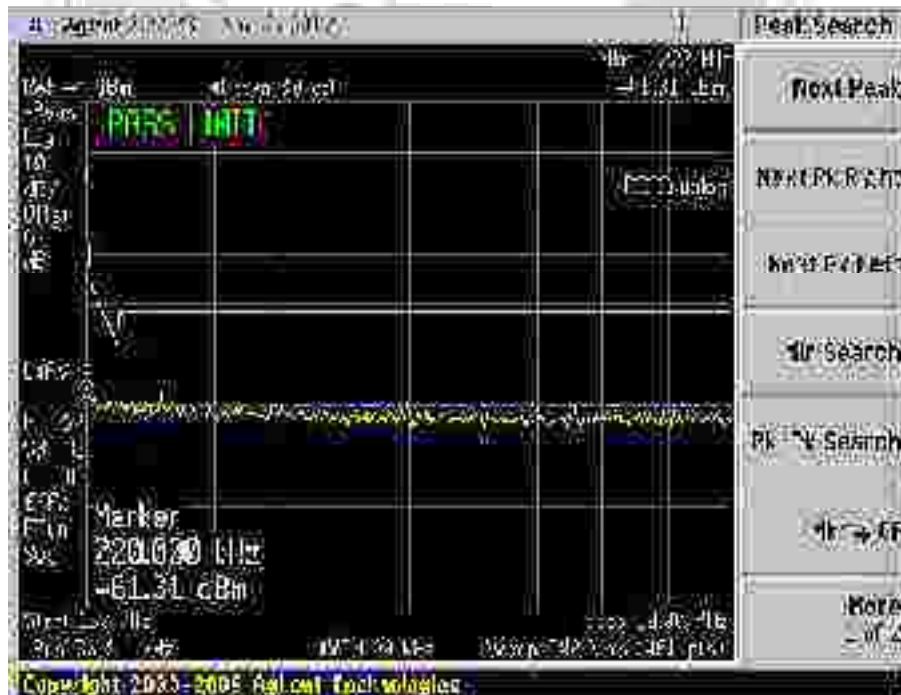


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 127 – Channel 1 (*lower ch*) @DBPSK 1Mbps

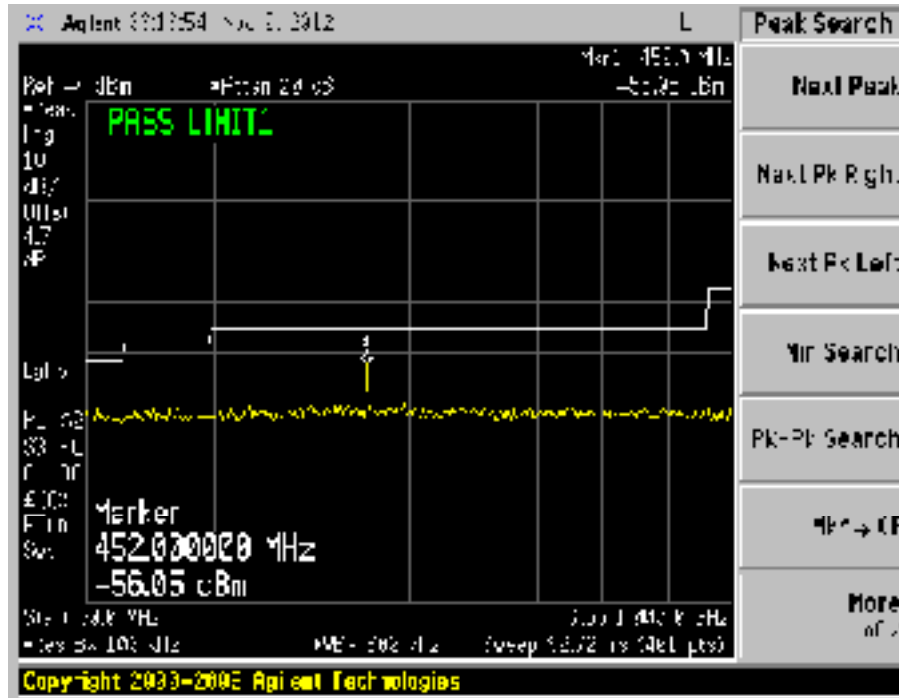


Plot 128 – Channel 1 (*lower ch*) @DBPSK 1Mbps

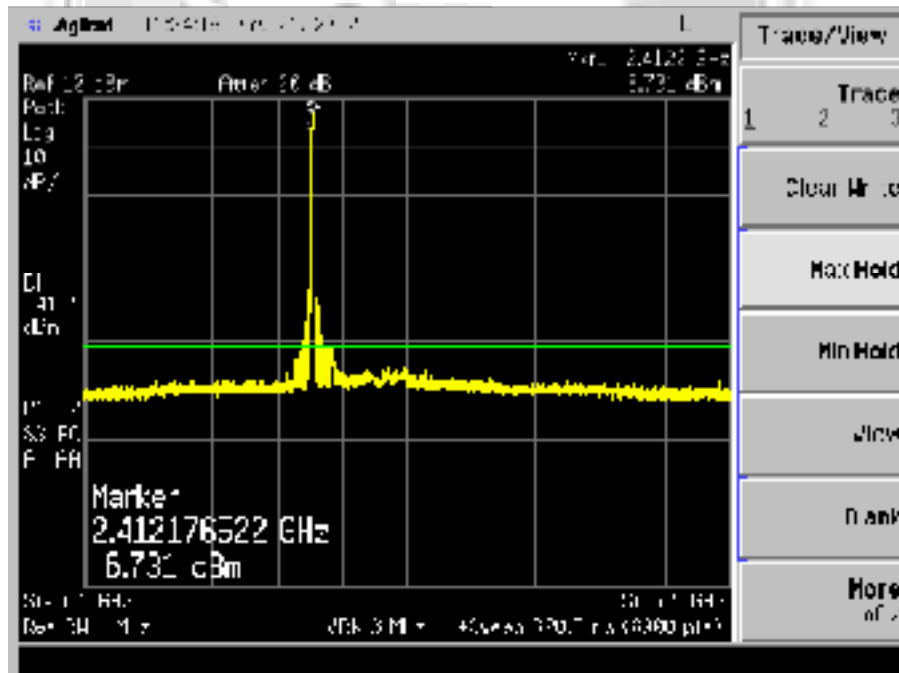


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 129 – Channel 1 (lower ch) @DBPSK 1Mbps

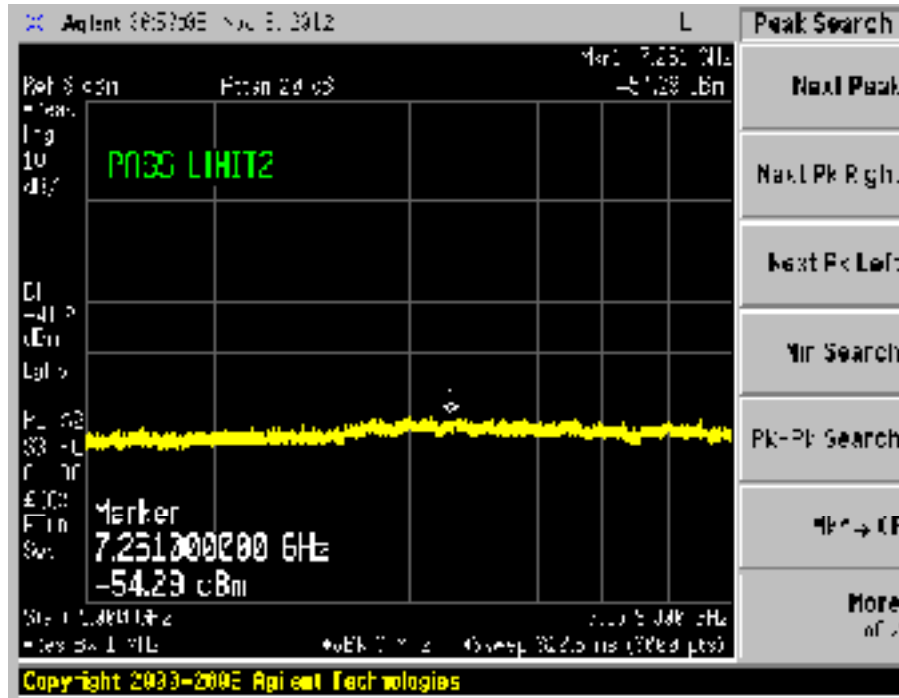


Plot 130 – Channel 1 (lower ch) @DBPSK 1Mbps

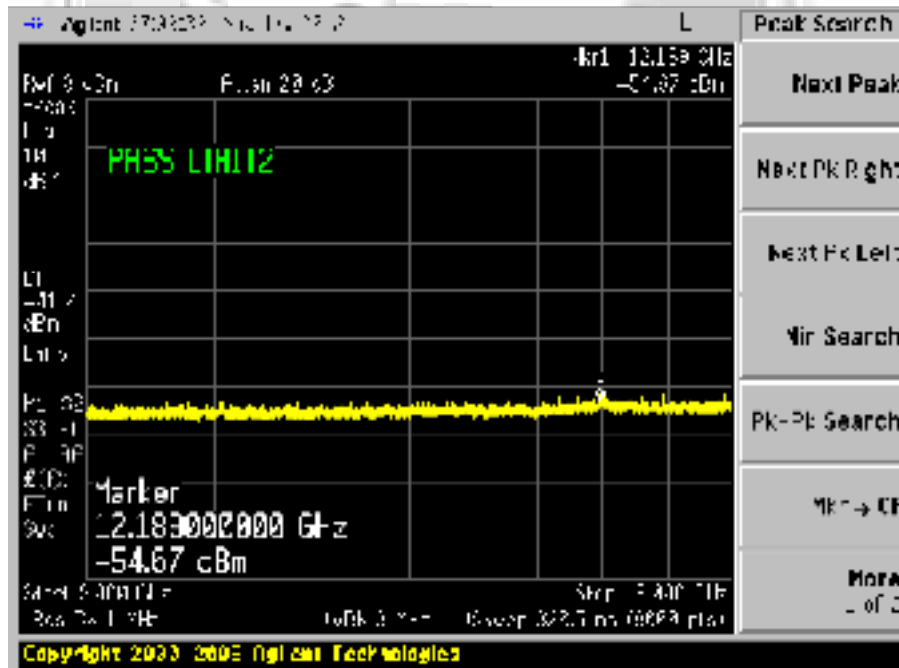


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 131 – Channel 1 (lower ch) @DBPSK 1Mbps

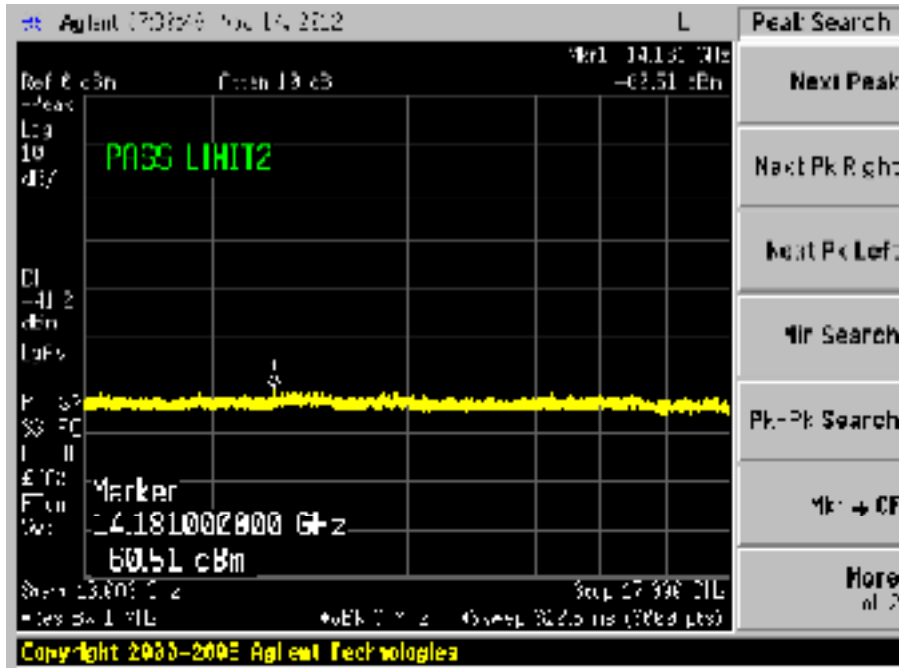


Plot 132 – Channel 1 (lower ch) @DBPSK 1Mbps

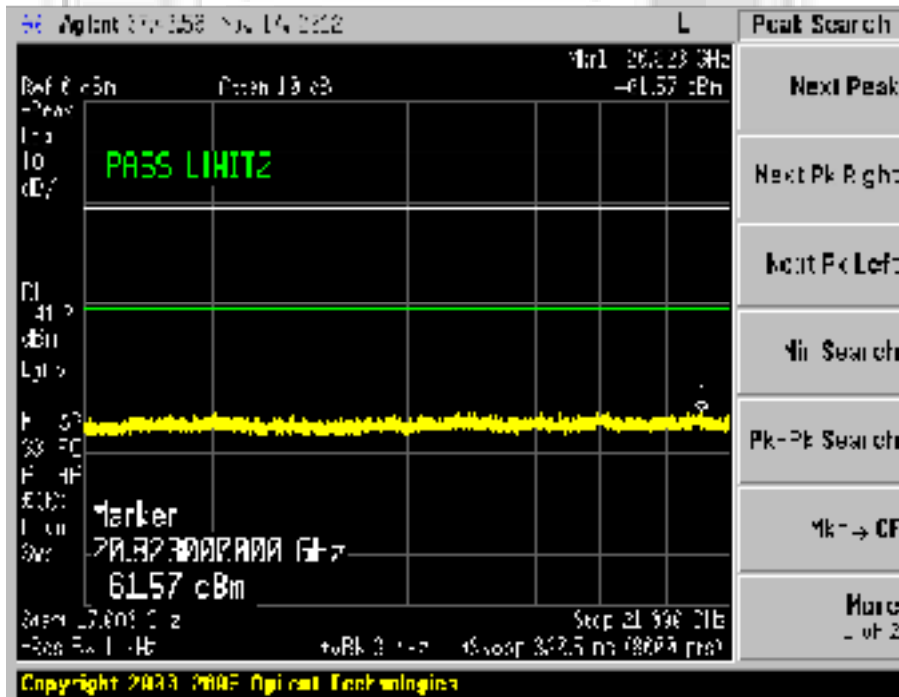


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 133 – Channel 1 (lower ch) @DBPSK 1Mbps

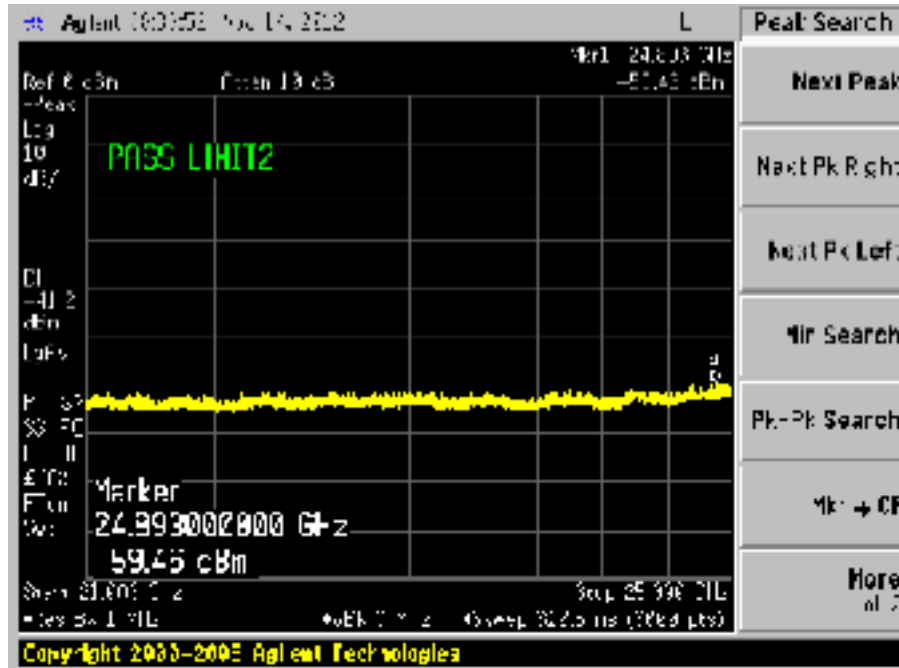


Plot 134 – Channel 1 (lower ch) @DBPSK 1Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 135 – Channel 1 (lower ch) @ DBPSK 1Mbps



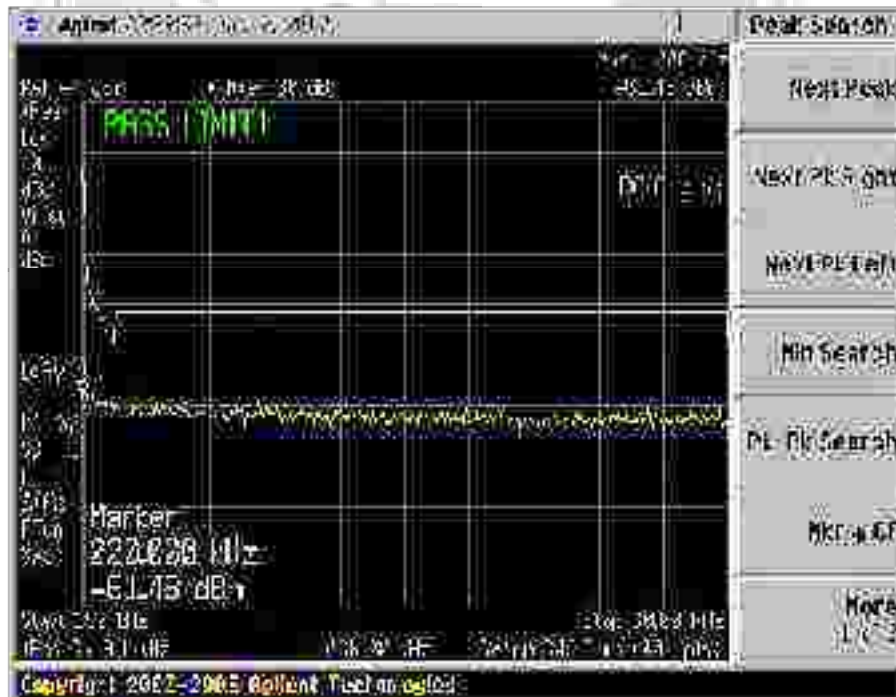


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 136 – Channel 1 (lower ch) @ DQPSK 2Mbps

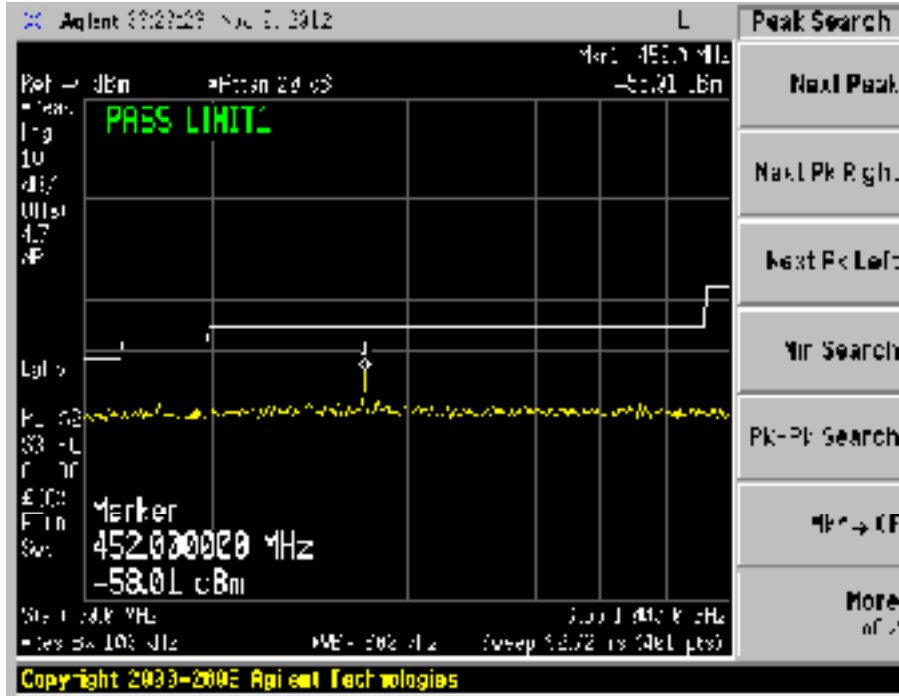


Plot 137 – Channel 1 (lower ch) @ DQPSK 2Mbps

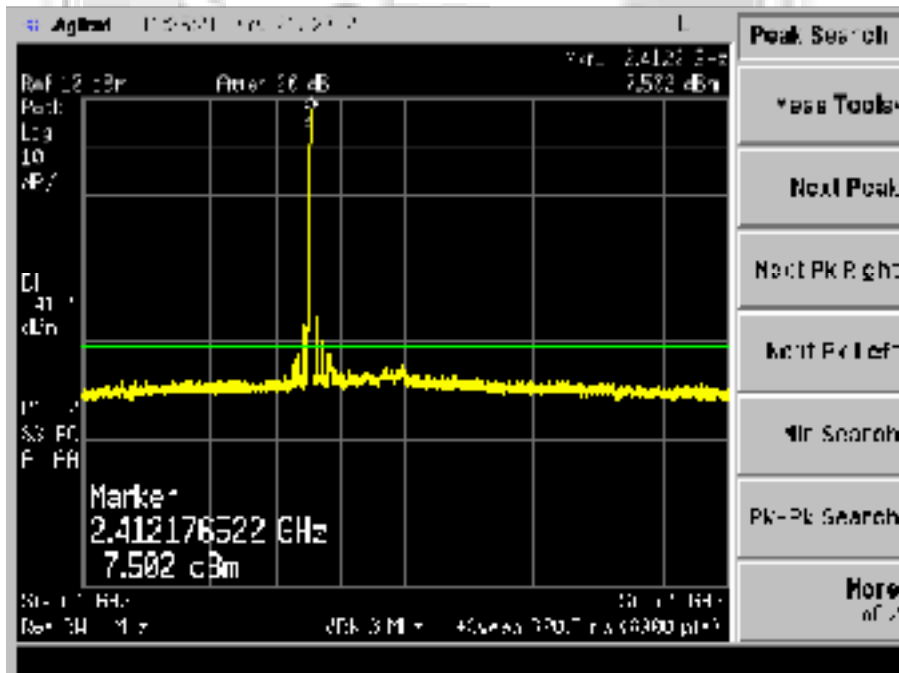


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 138 – Channel 1 (lower ch) @ DQPSK 2Mbps

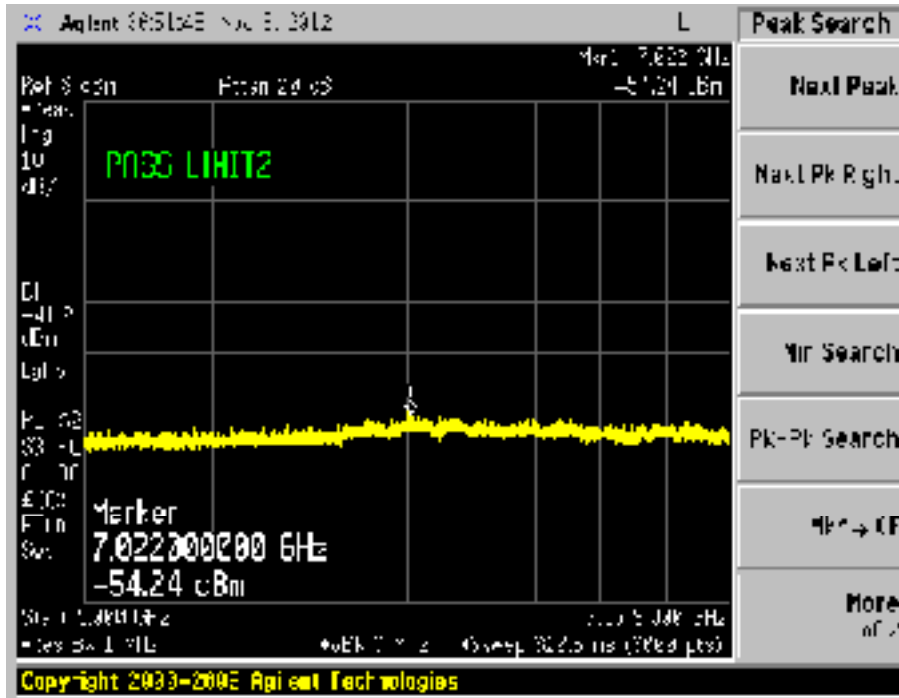


Plot 139 – Channel 1 (lower ch) @ DQPSK 2Mbps

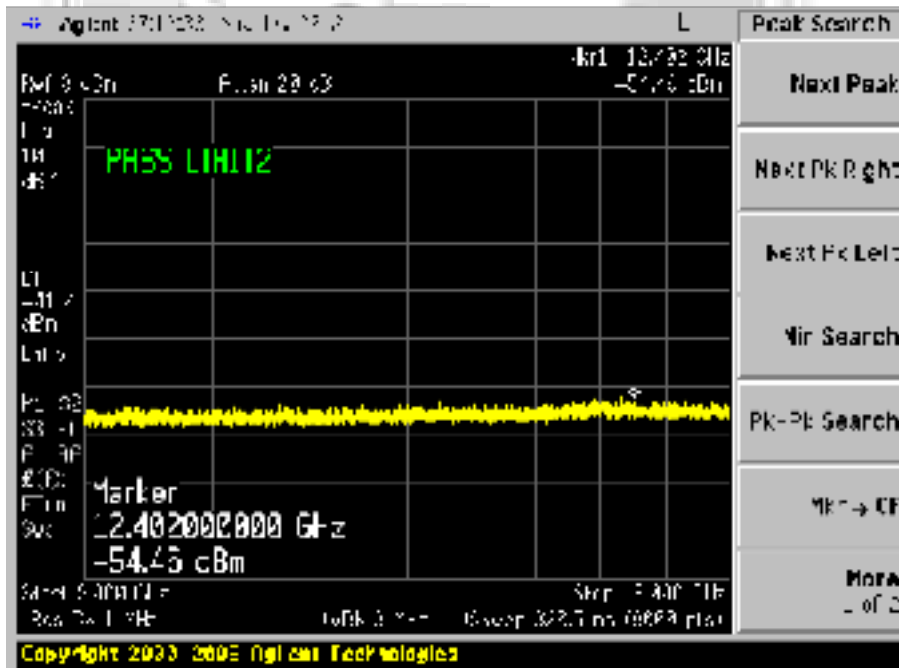


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 140 – Channel 1 (lower ch) @DQPSK 2Mbps

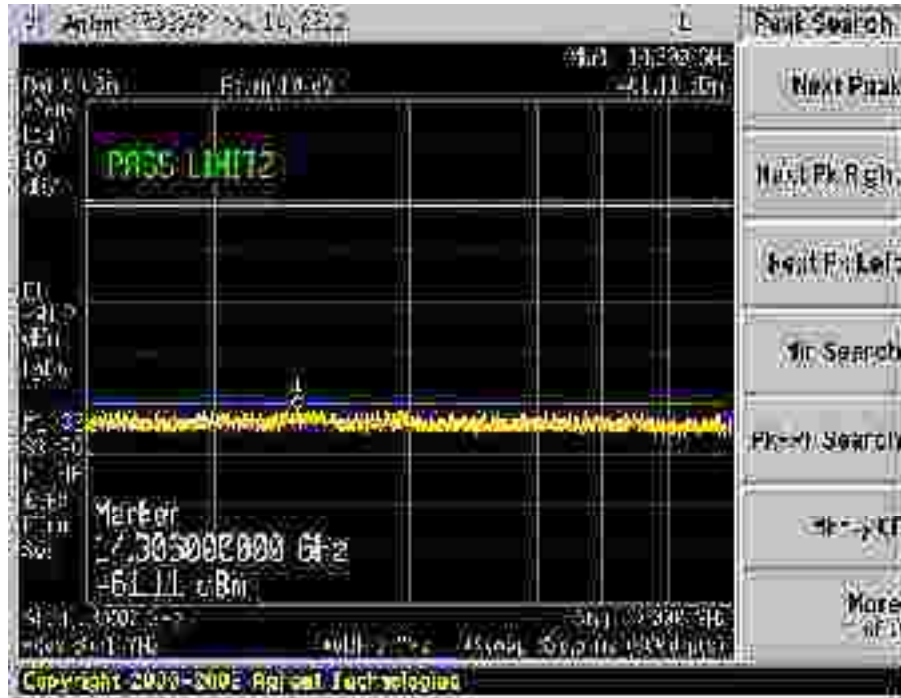


Plot 141 – Channel 1 (lower ch) @DQPSK 2Mbps

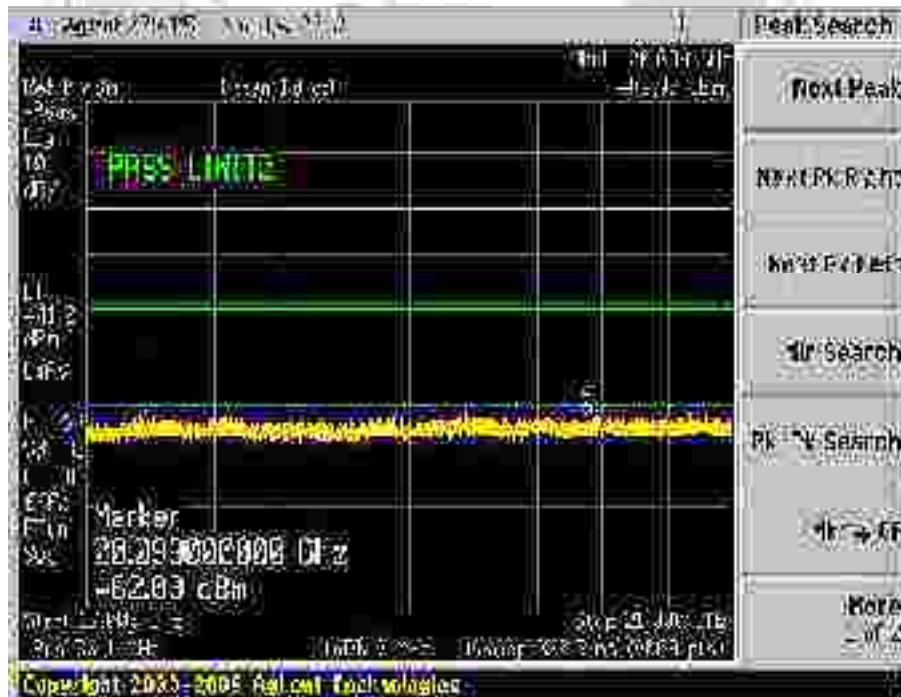


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 142 – Channel 1 (lower ch) @ DQPSK 2Mbps

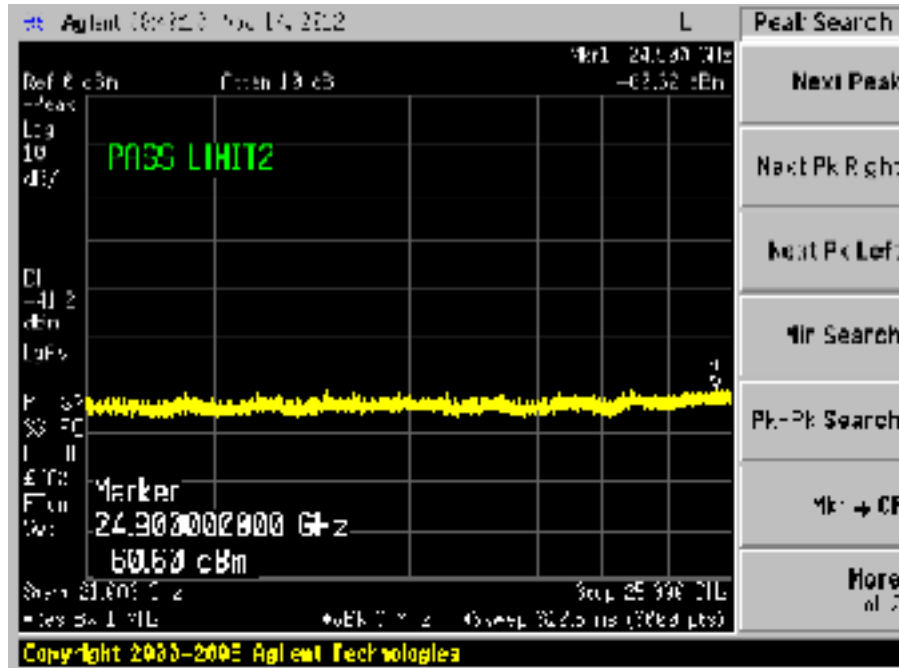


Plot 143 – Channel 1 (lower ch) @ DQPSK 2Mbps

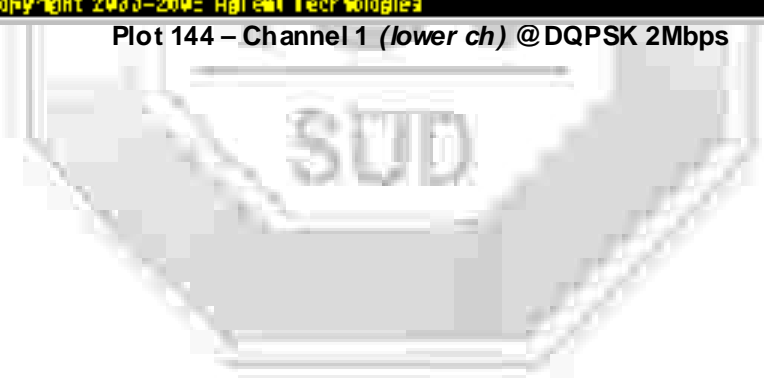


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



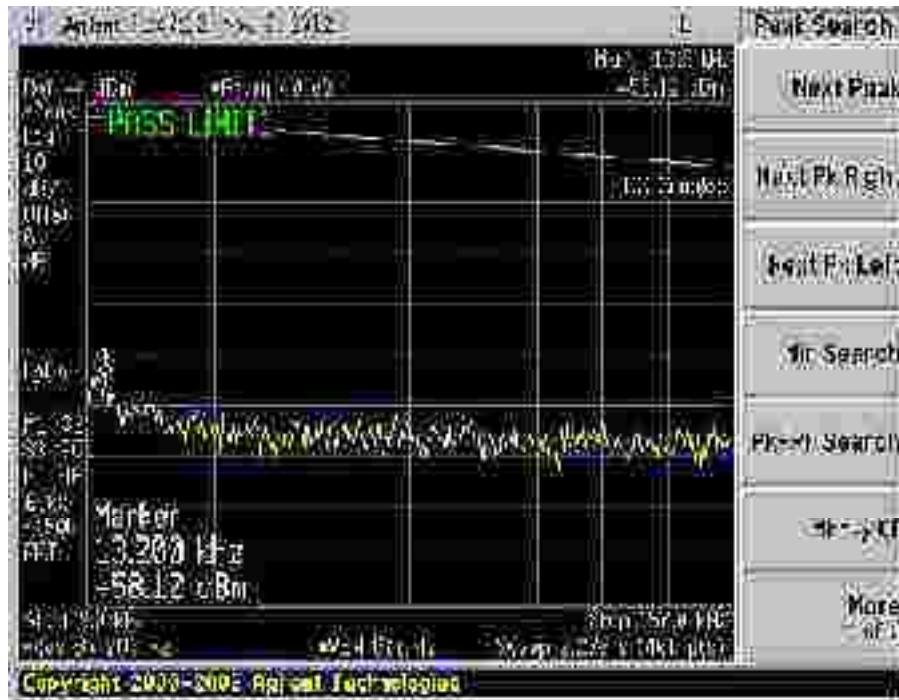
Plot 144 – Channel 1 (lower ch) @ DQPSK 2Mbps



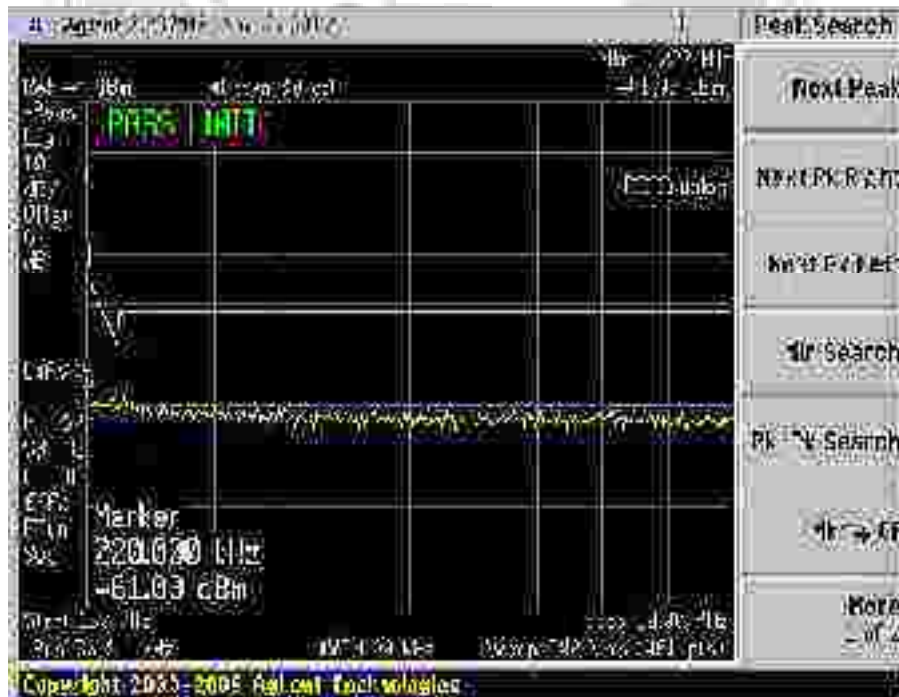


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 145 – Channel 1 (lower ch) @ CCK 11Mbps

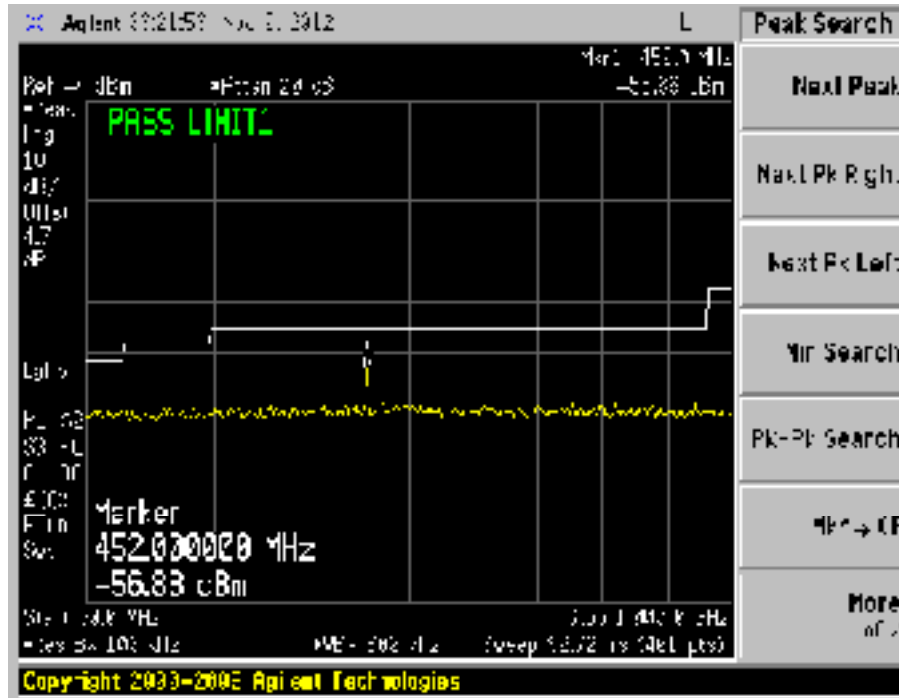


Plot 146 – Channel 1 (lower ch) @ CCK 11Mbps

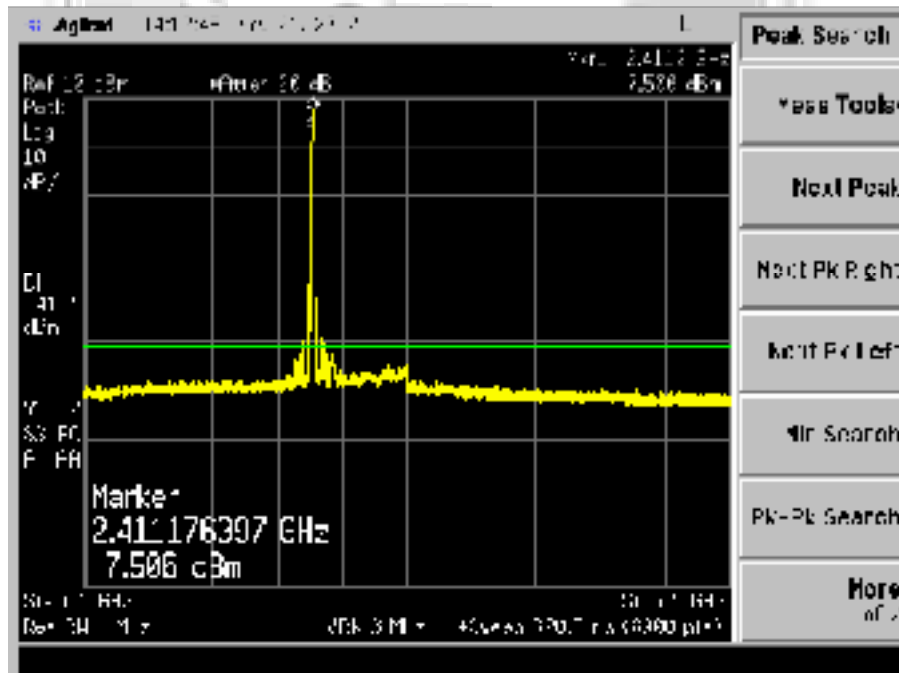


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 147 – Channel 1 (lower ch) @ CCK 11Mbps

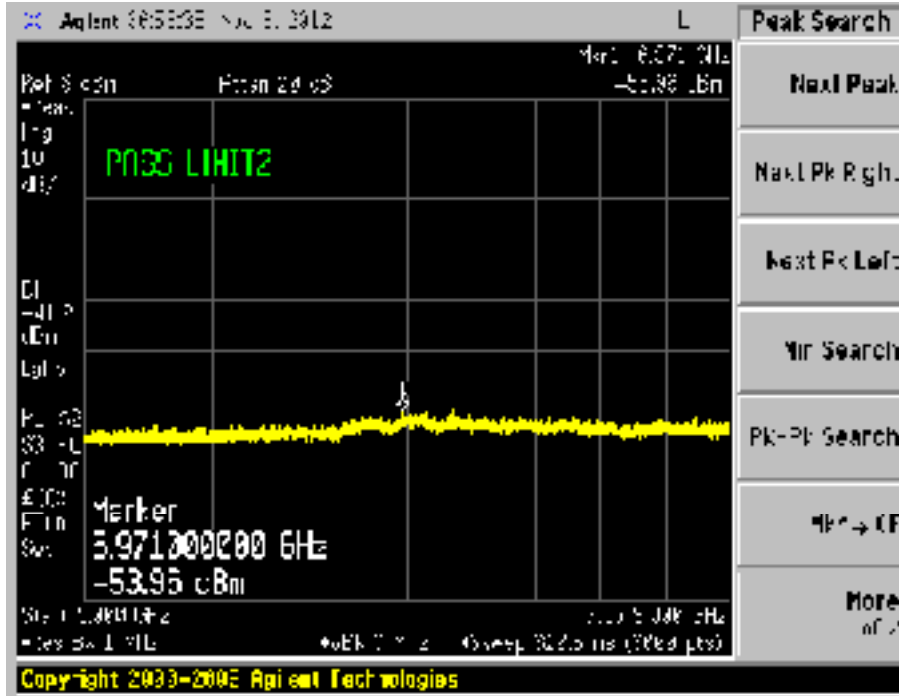


Plot 148 – Channel 1 (lower ch) @ CCK 11Mbps

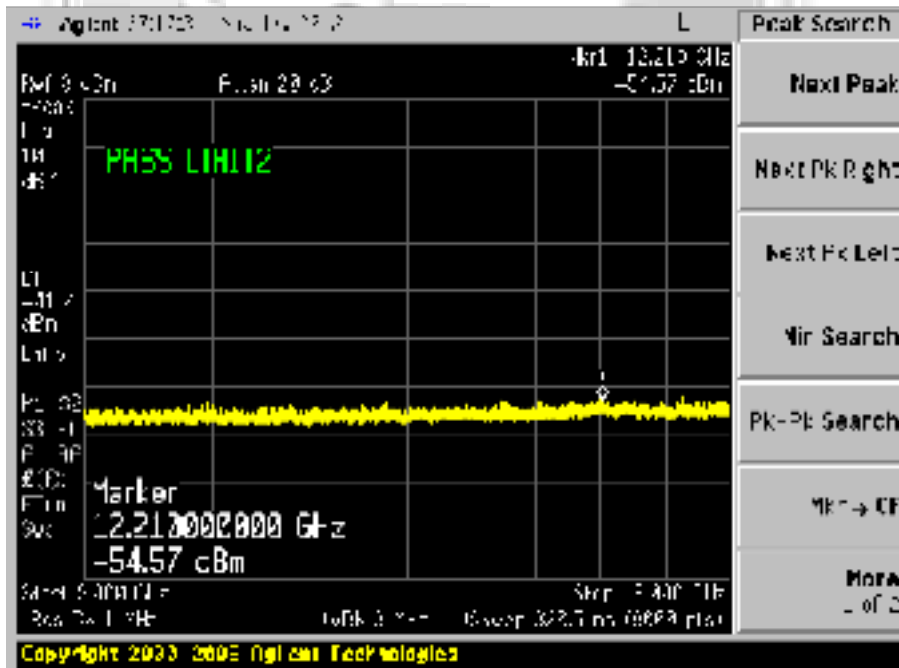


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 149 – Channel 1 (lower ch) @ CCK 11Mbps

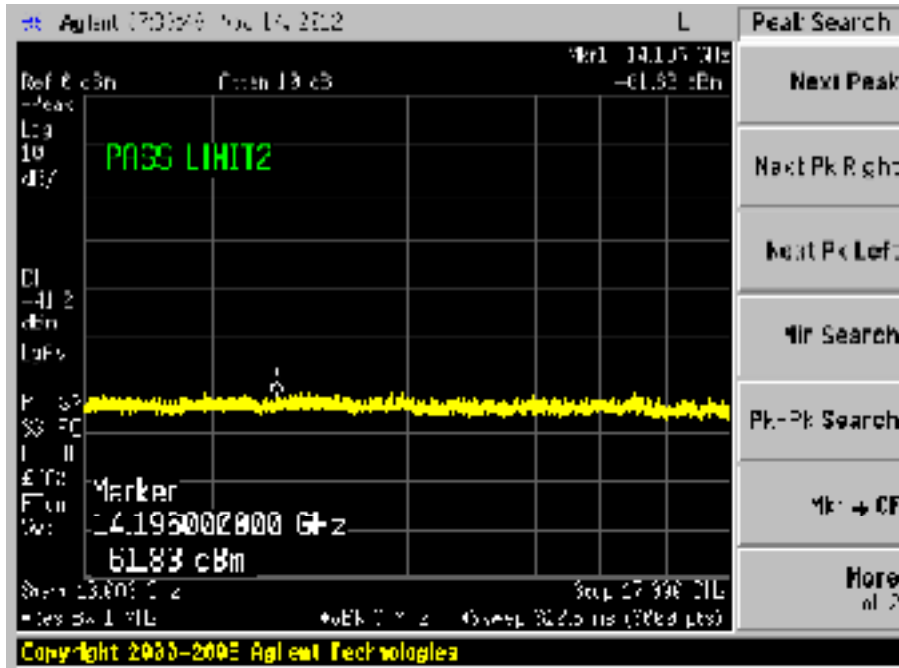


Plot 150 – Channel 1 (lower ch) @ CCK 11Mbps

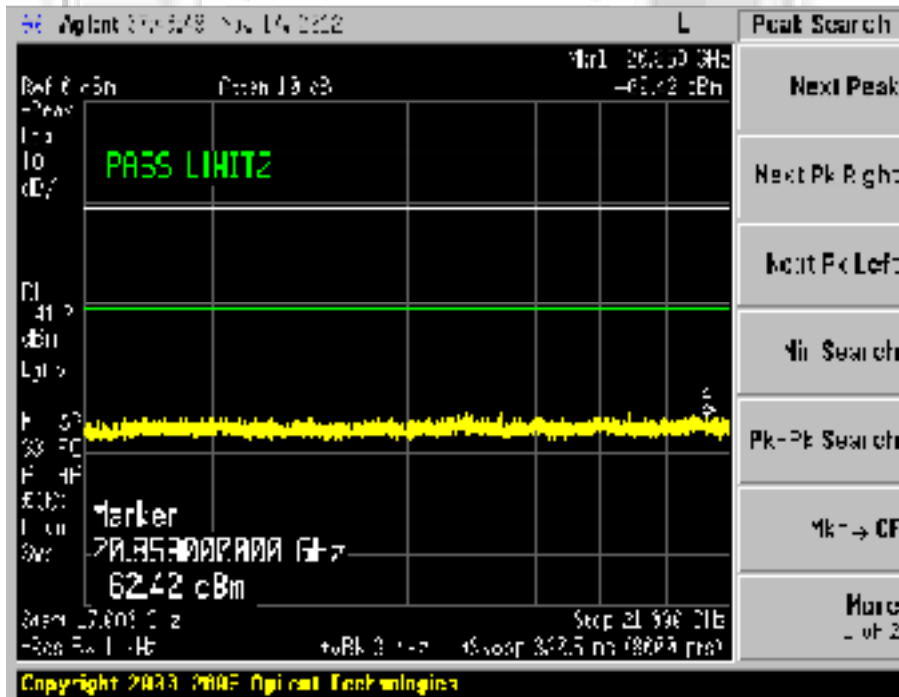


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 151 – Channel 1 (lower ch) @ CCK 11Mbps

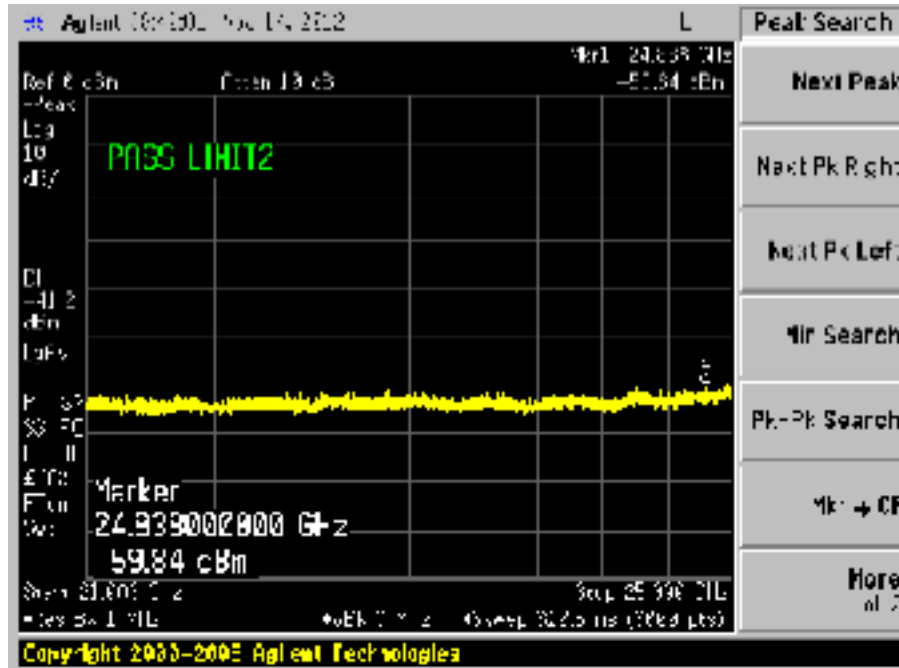


Plot 152 – Channel 1 (lower ch) @ CCK 11Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



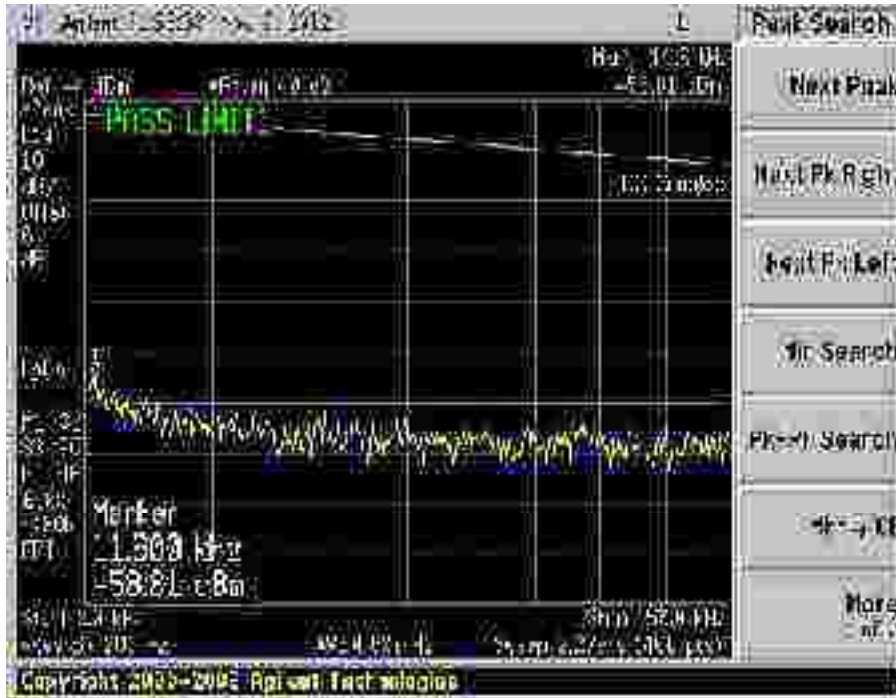
Plot 153 – Channel 1 (lower ch) @ CCK 11Mbps



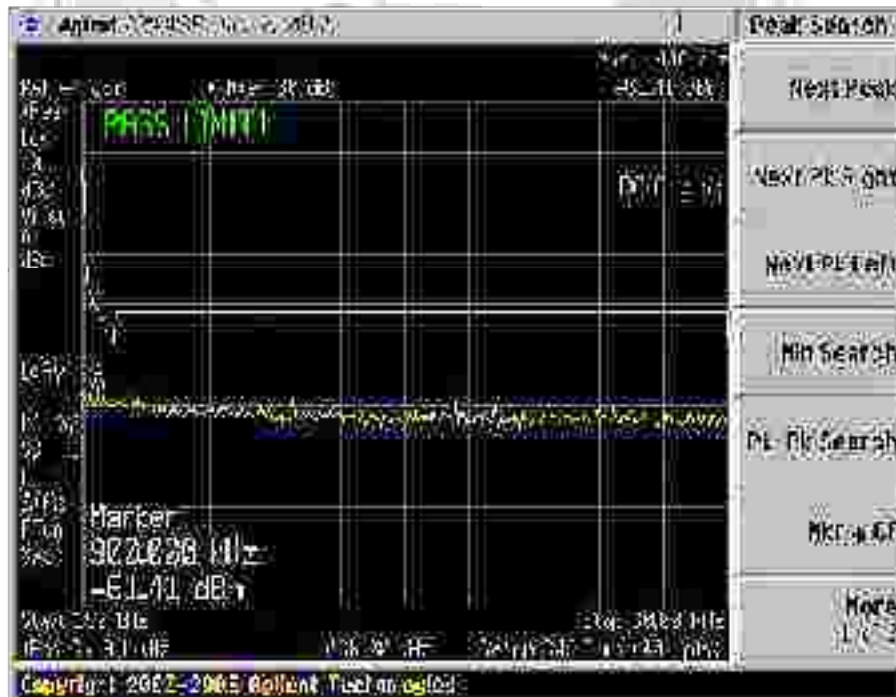


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 154– Channel 1 (lower ch) @ BPSK 9Mbps

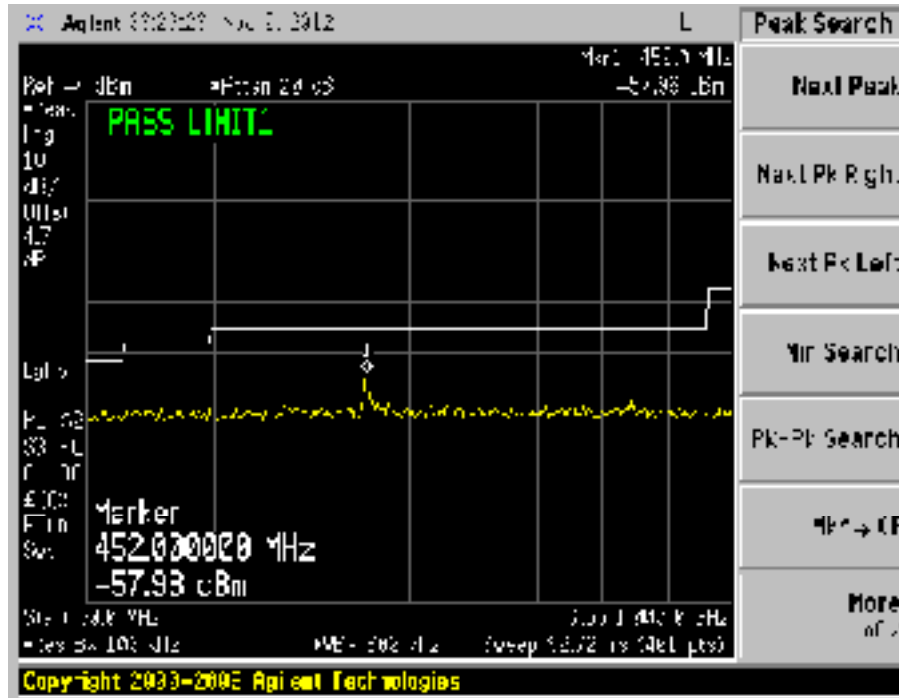


Plot 155– Channel 1 (lower ch) @ BPSK 9Mbps

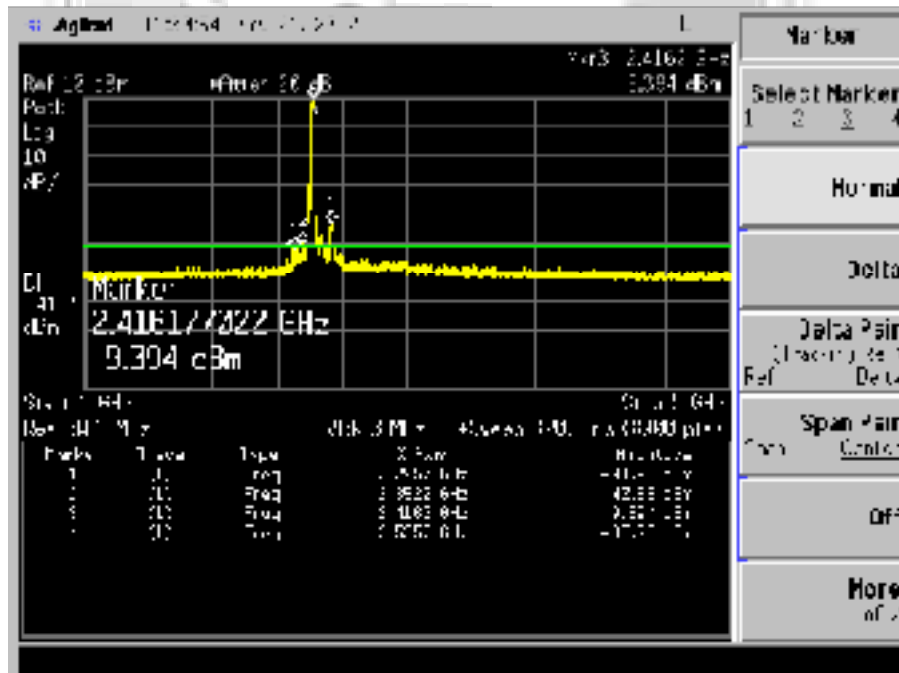


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 156 – Channel 1 (lower ch) @ BPSK 9Mbps



Plot 157 – Channel 1 (lower ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 158 – Channel 1 (lower ch) @ BPSK 9Mbps

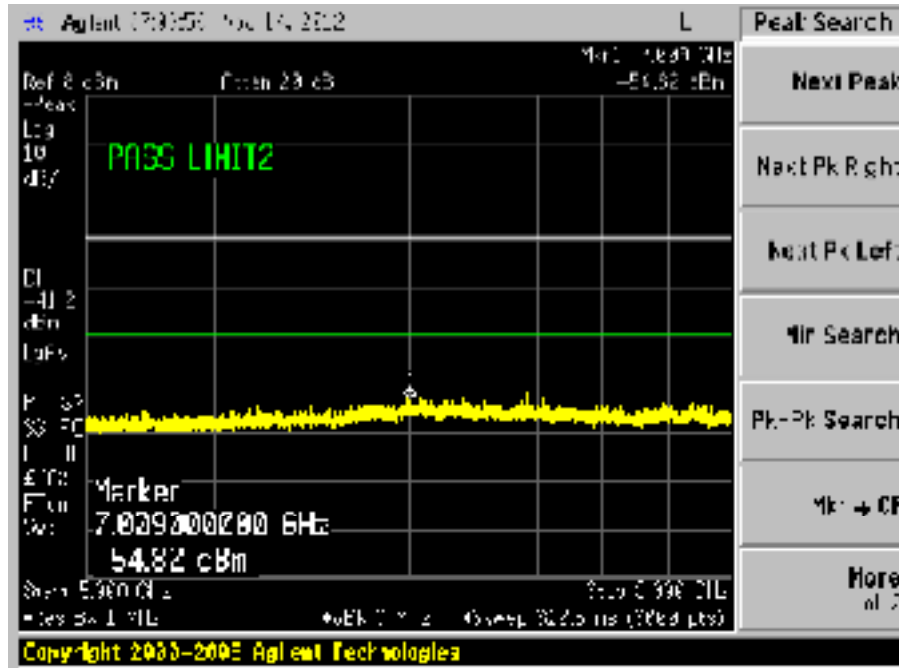


Plot 159 – Channel 1 (lower ch) @ BPSK 9Mbps

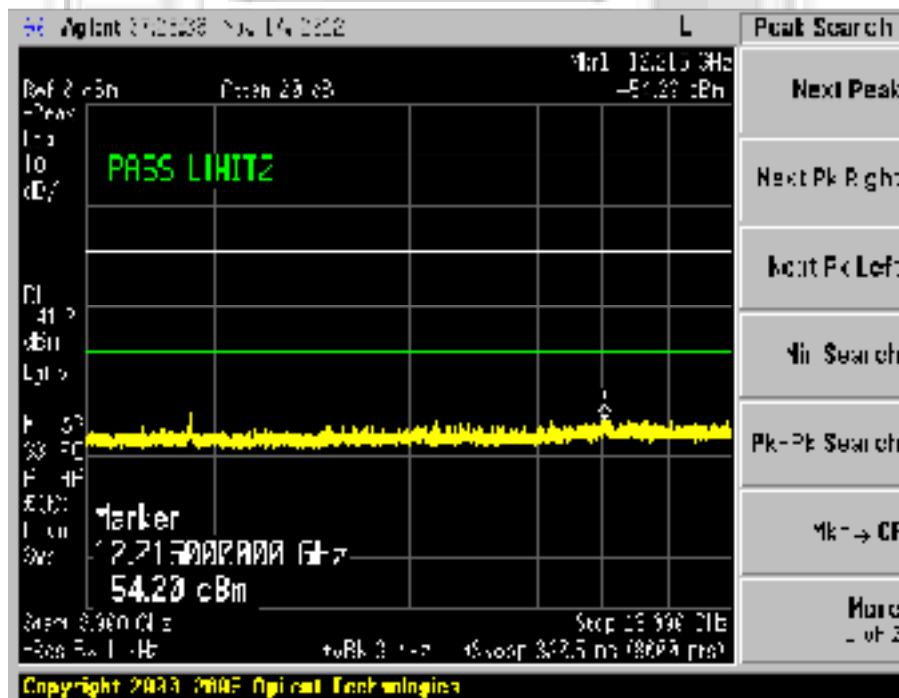


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 160 – Channel 1 (lower ch) @ BPSK 9Mbps

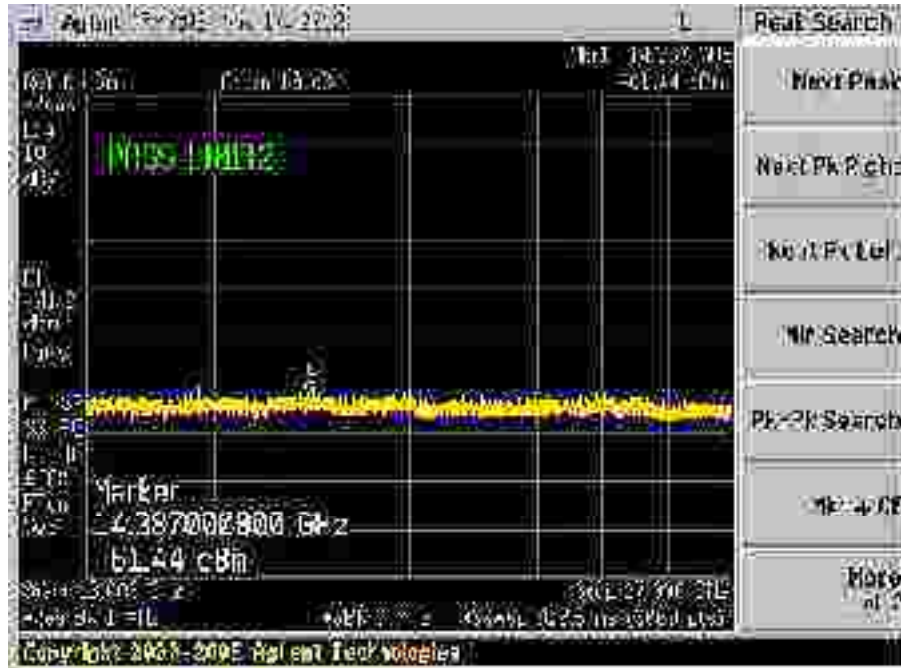


Plot 161 – Channel 1 (lower ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 162 – Channel 1 (lower ch) @ BPSK 9Mbps

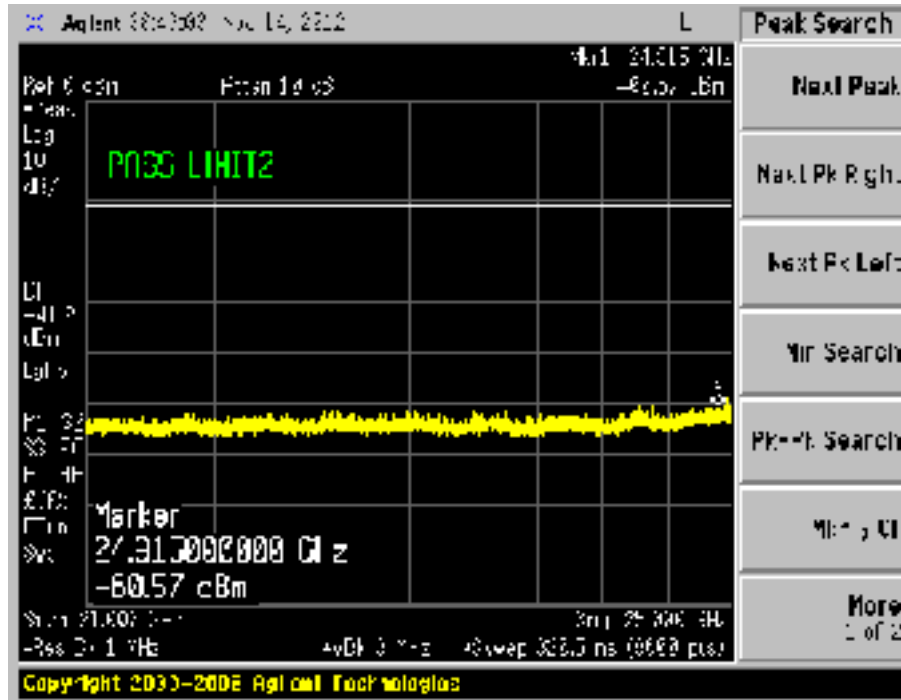


Plot 163 – Channel 1 (lower ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



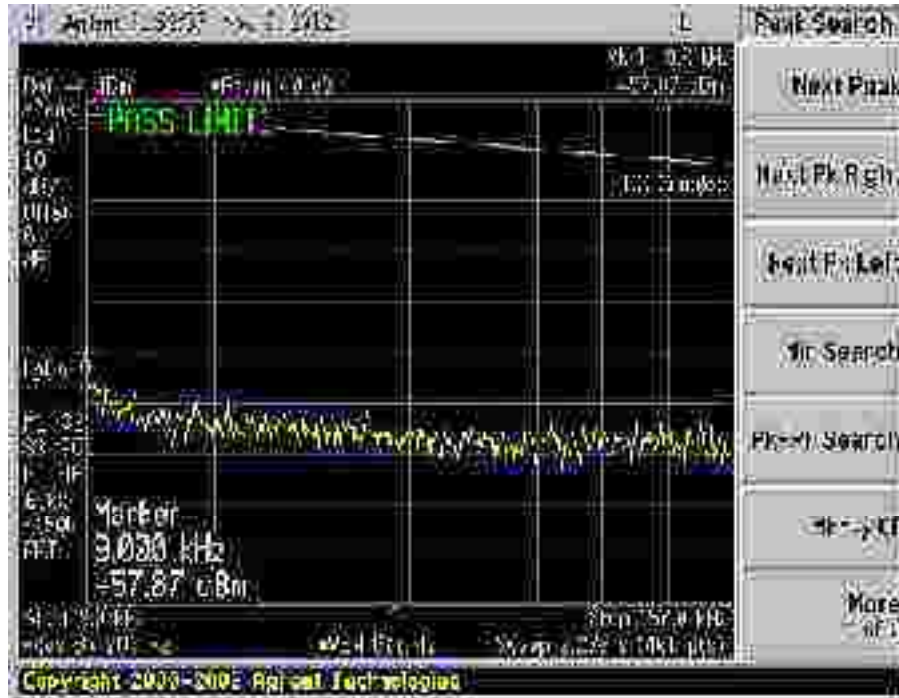
Plot 164 – Channel 1 (lower ch) @ BPSK 9Mbps



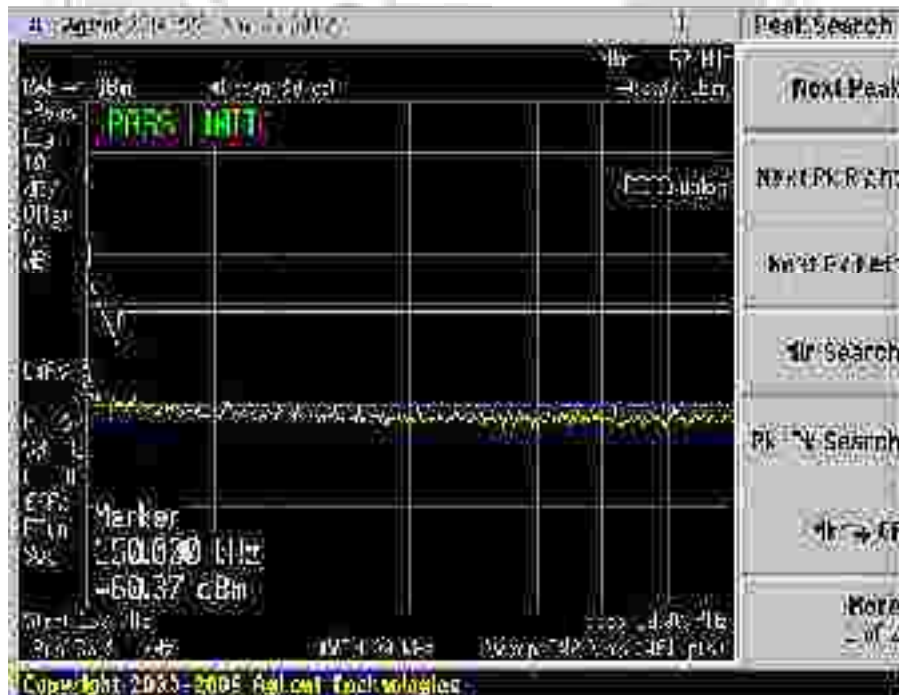


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 165 – Channel 1 (lower ch) @ QPSK 18Mbps

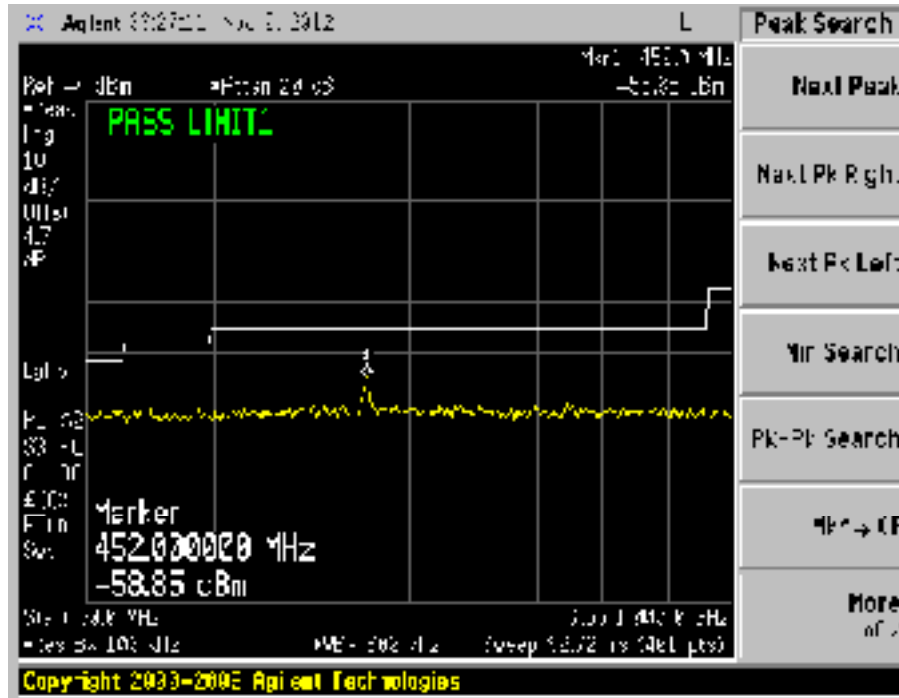


Plot 166 – Channel 1 (lower ch) @ QPSK 18Mbps

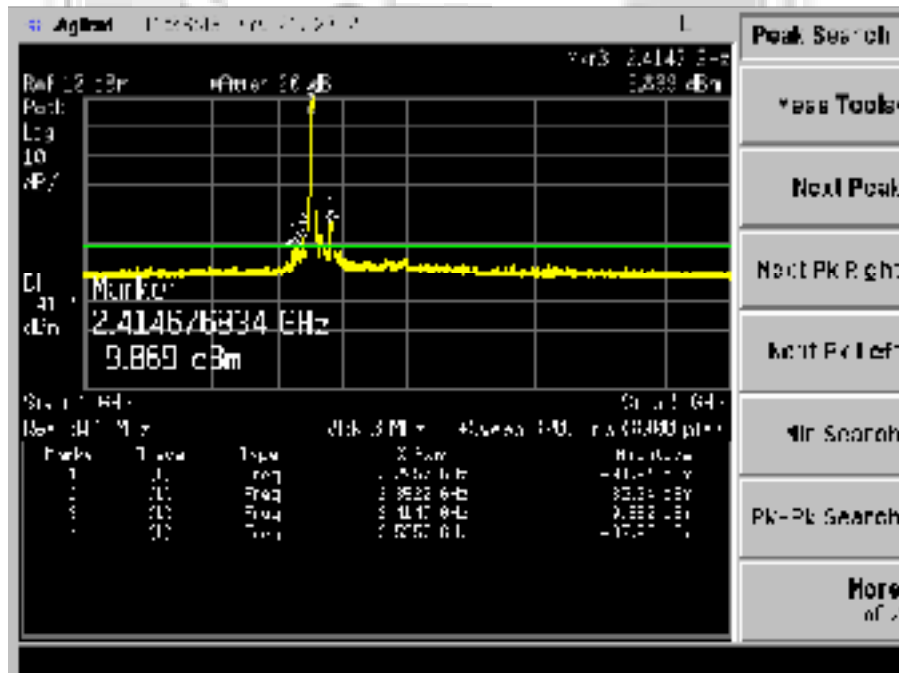


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 167 – Channel 1 (lower ch) @ QPSK 18Mbps

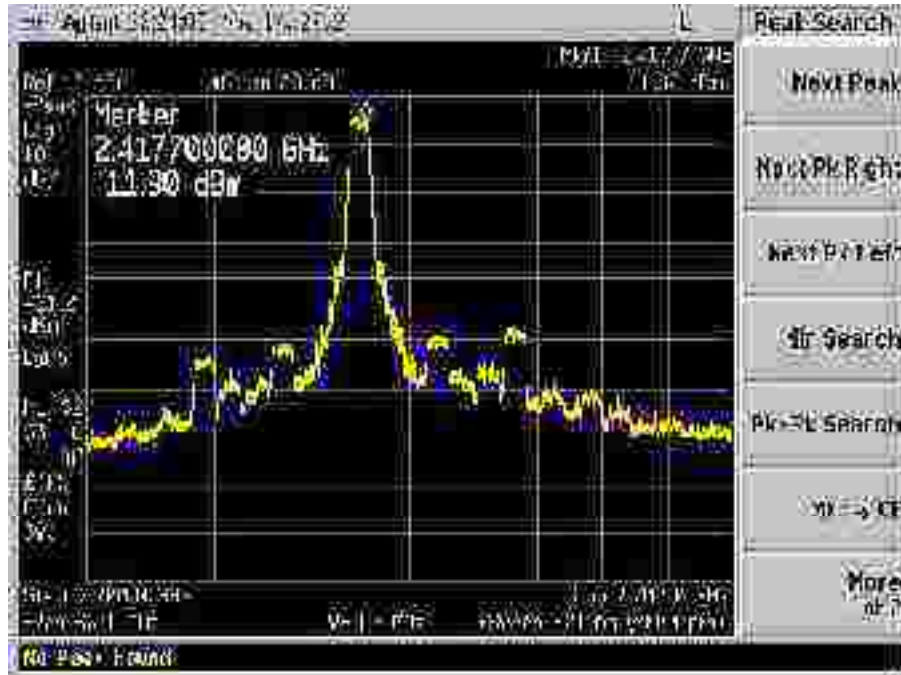


Plot 168 – Channel 1 (lower ch) @ QPSK 18Mbps

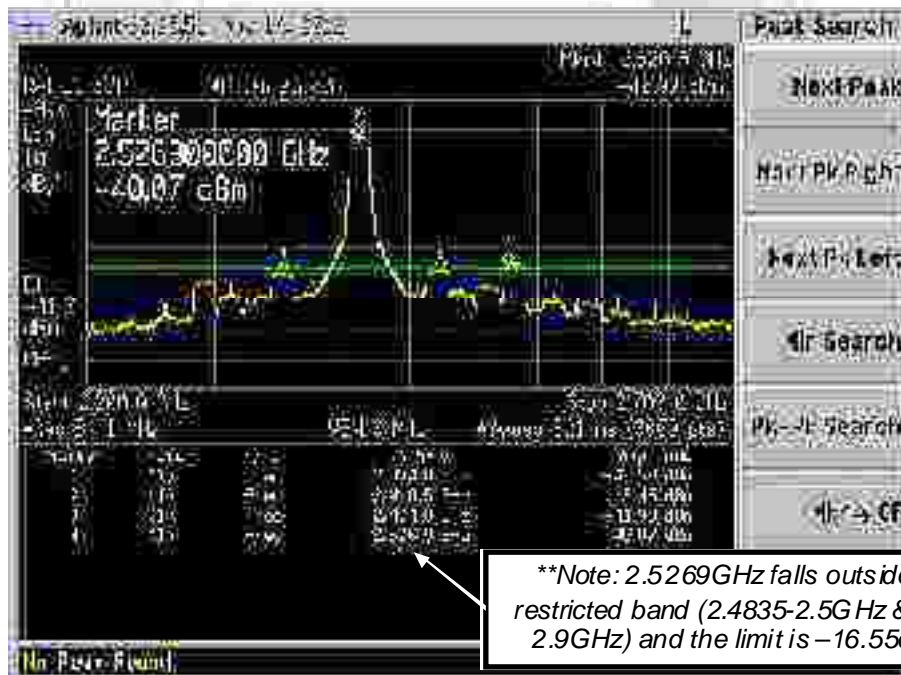


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 169 – Channel 1 (lower ch) @ QPSK 18Mbps

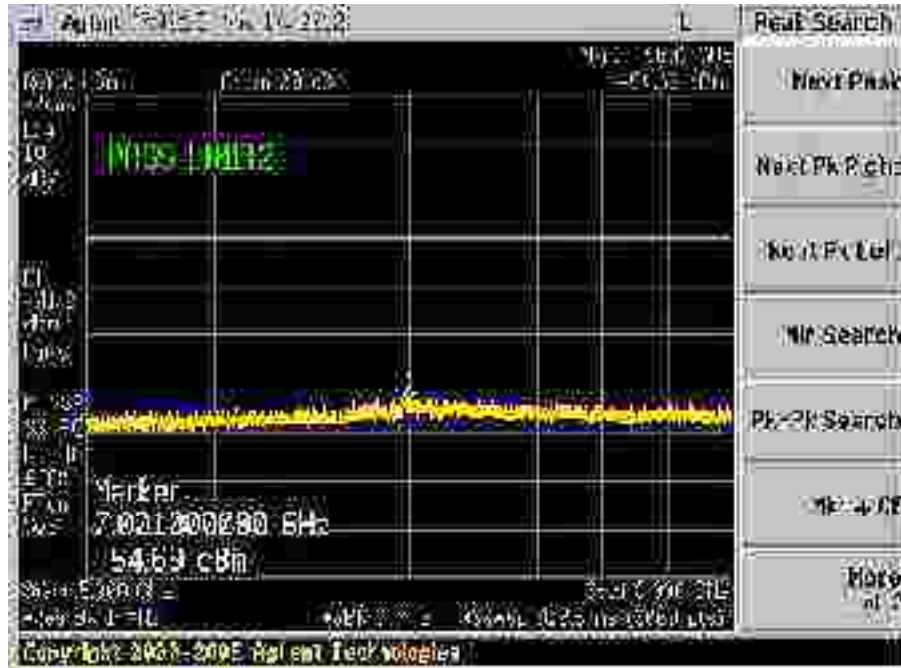


Plot 170 – Channel 1 (lower ch) @ QPSK 18Mbps

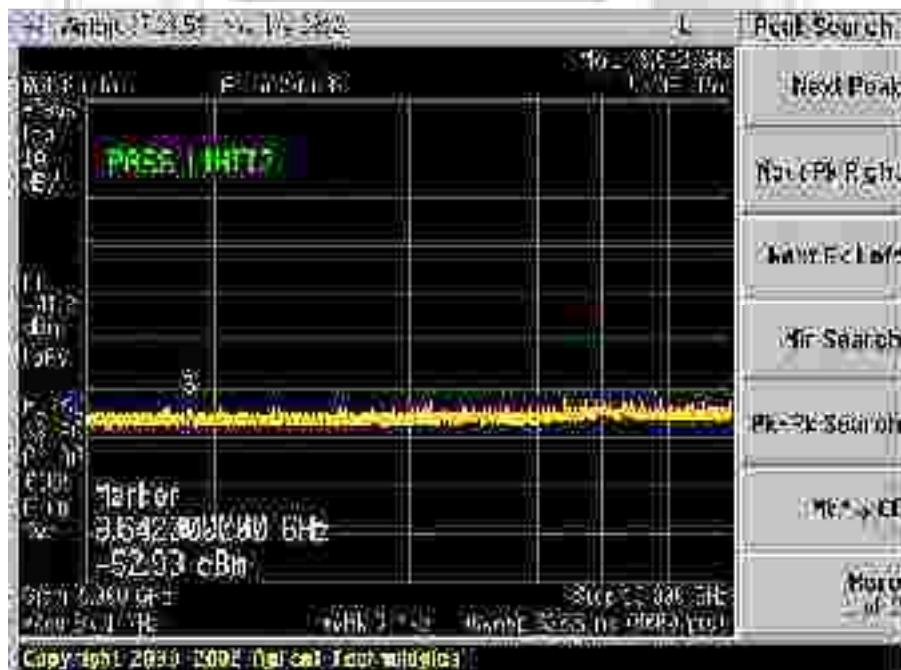


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 171 – Channel 1 (lower ch) @ QPSK 18Mbps

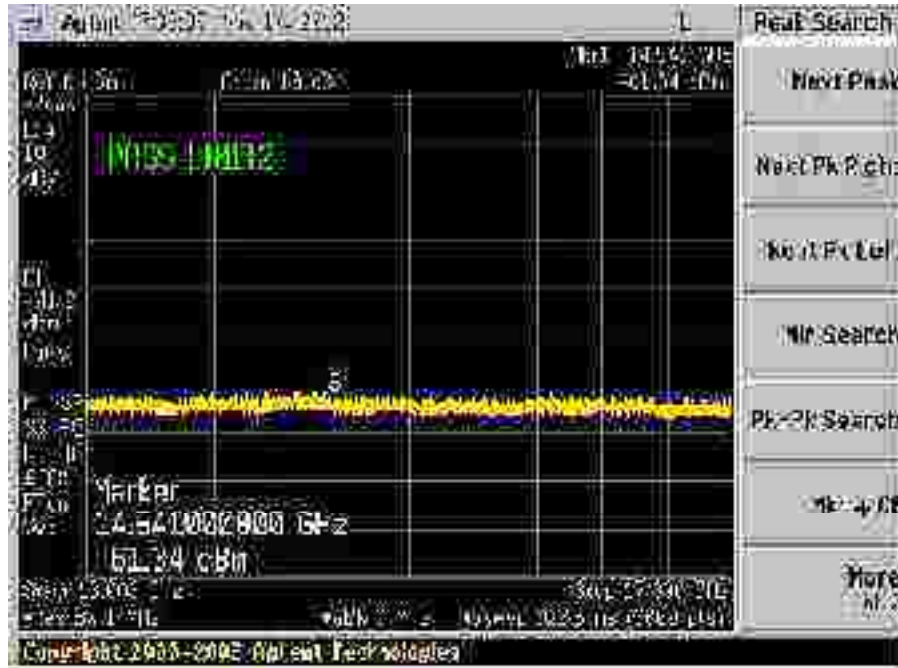


Plot 172 – Channel 1 (lower ch) @ QPSK 18Mbps

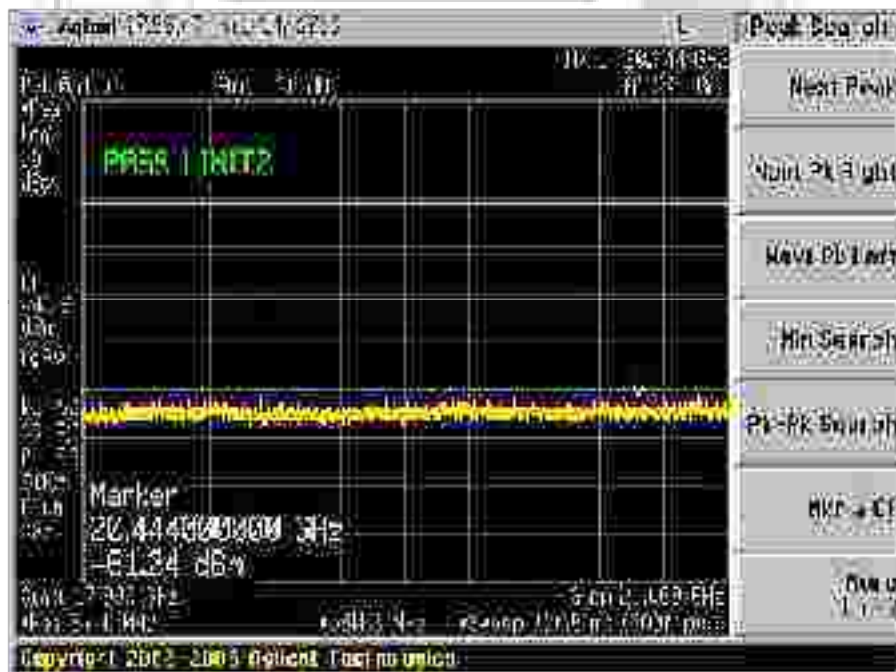


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 173 – Channel 1 (*lower ch*) @ QPSK 18Mbps

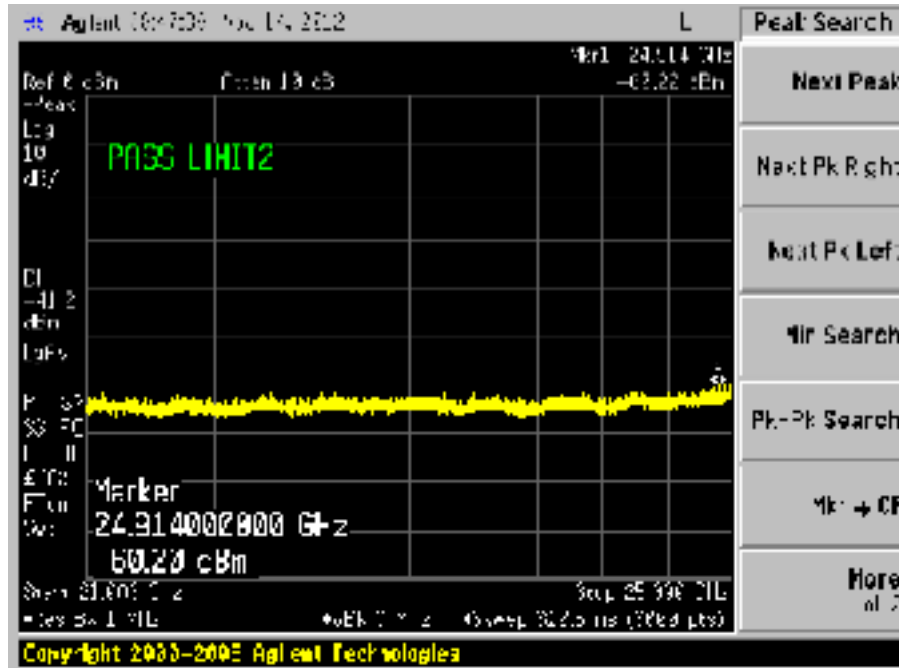


Plot 174 – Channel 1 (*lower ch*) @ QPSK 18Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



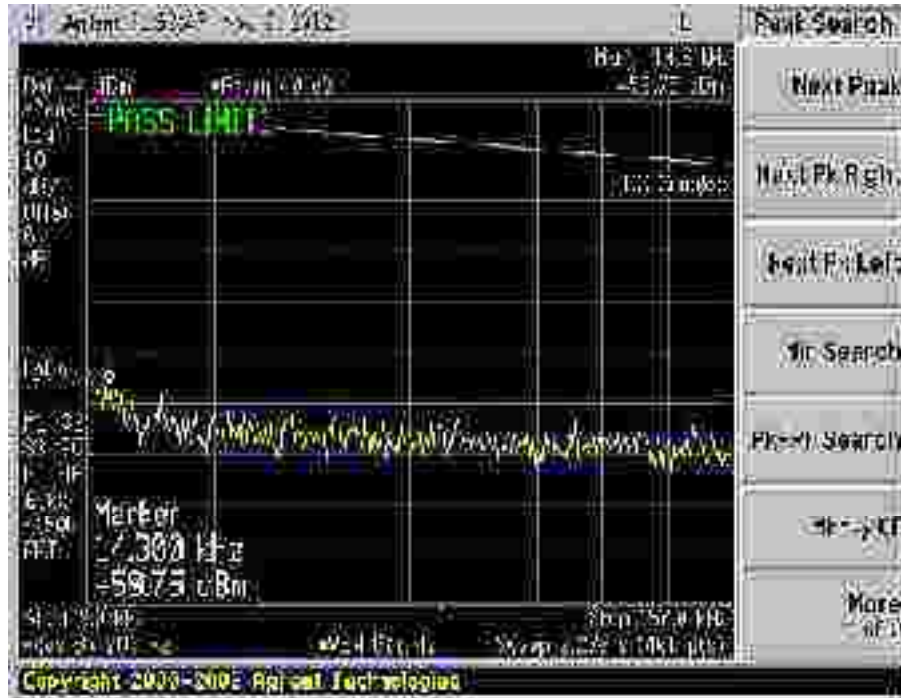
Plot 175 – Channel 1 (lower ch) @ QPSK 18Mbps



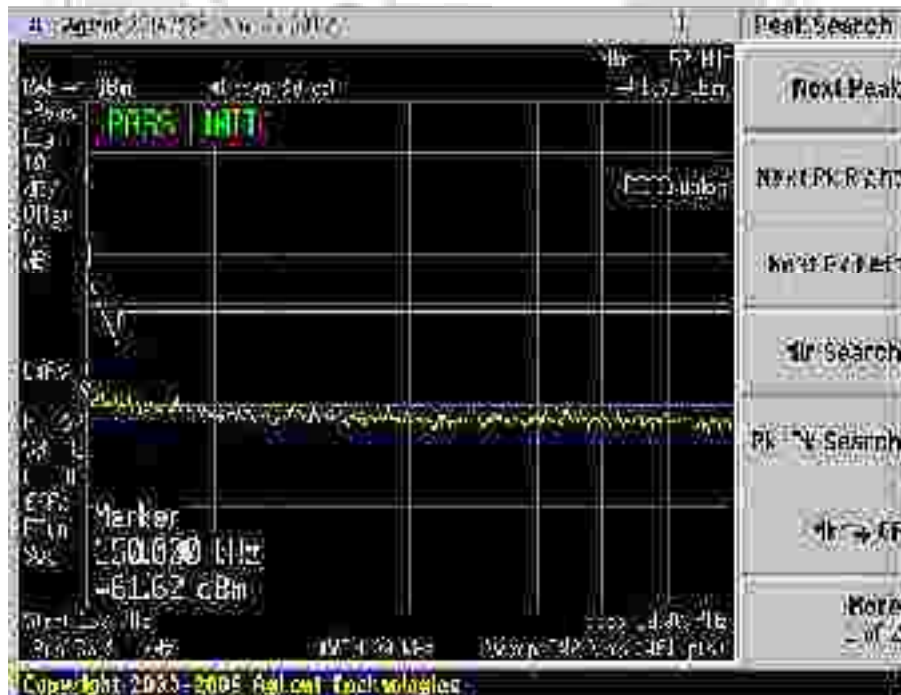


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 176 – Channel 1 (lower ch) @16QAM 36Mbps

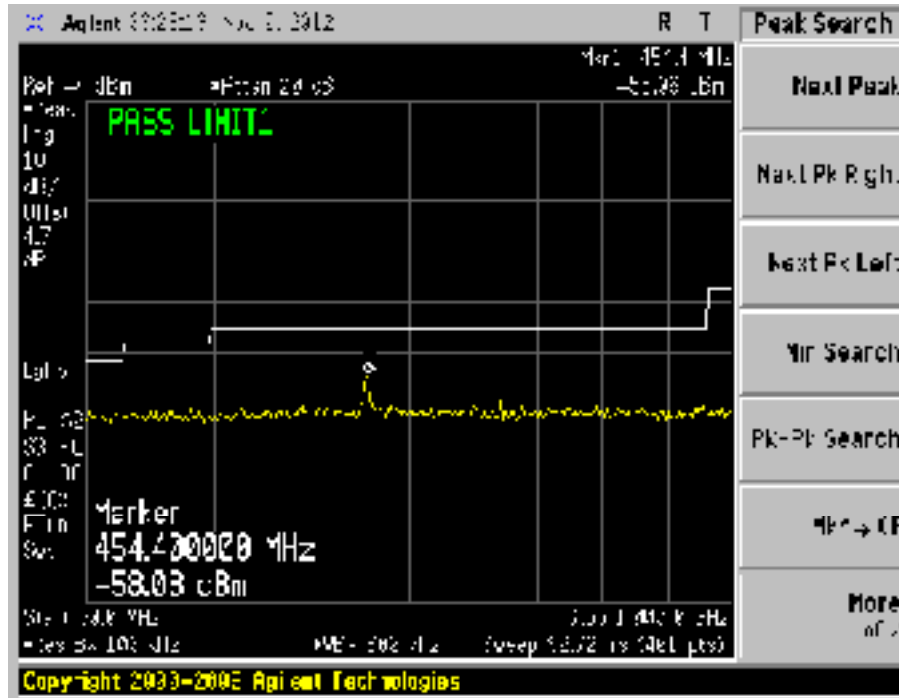


Plot 177 – Channel 1 (lower ch) @16QAM 36Mbps

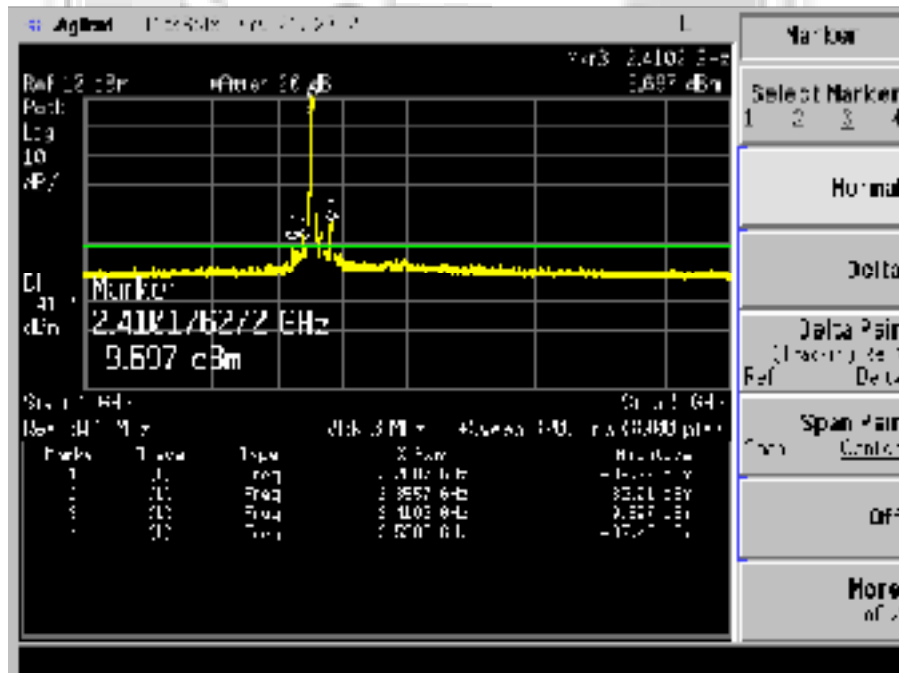


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 178 – Channel 1 (lower ch) @16QAM 36Mbps

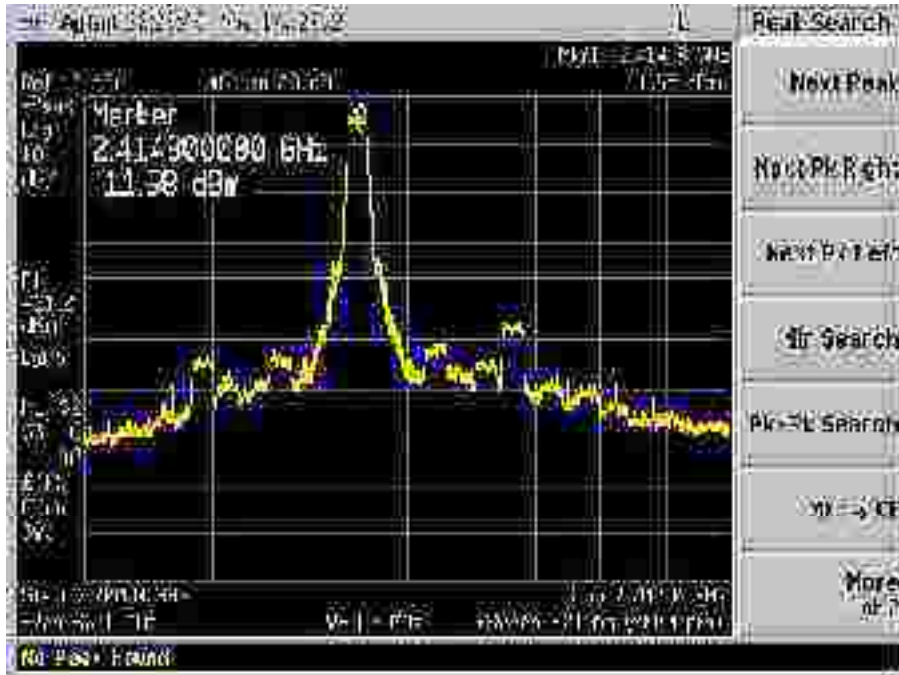


Plot 179 – Channel 1 (lower ch) @16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 180 – Channel 1 (lower ch) @16QAM 36Mbps

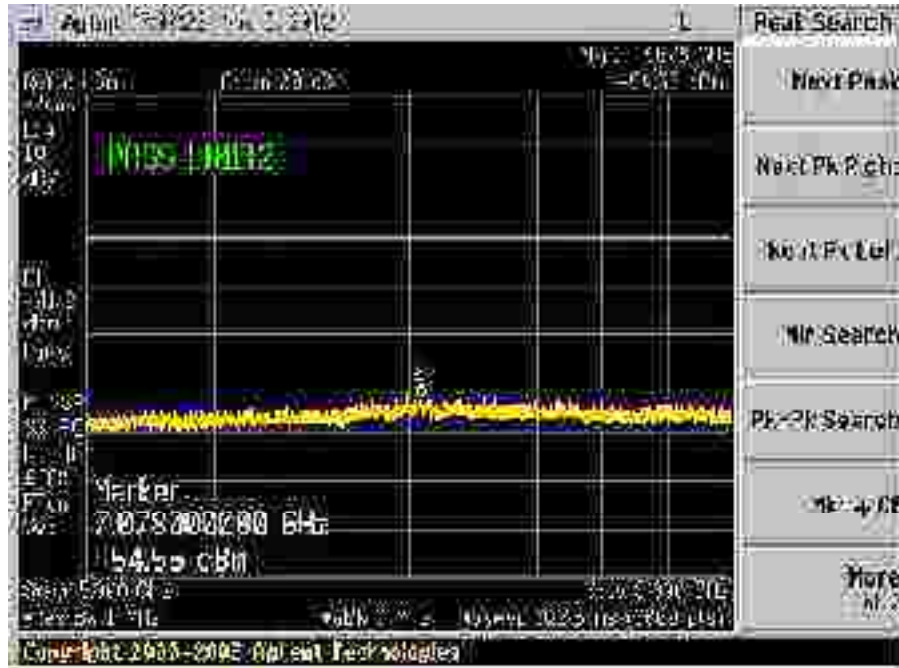


Plot 181 – Channel 1 (lower ch) @16QAM 36Mbps

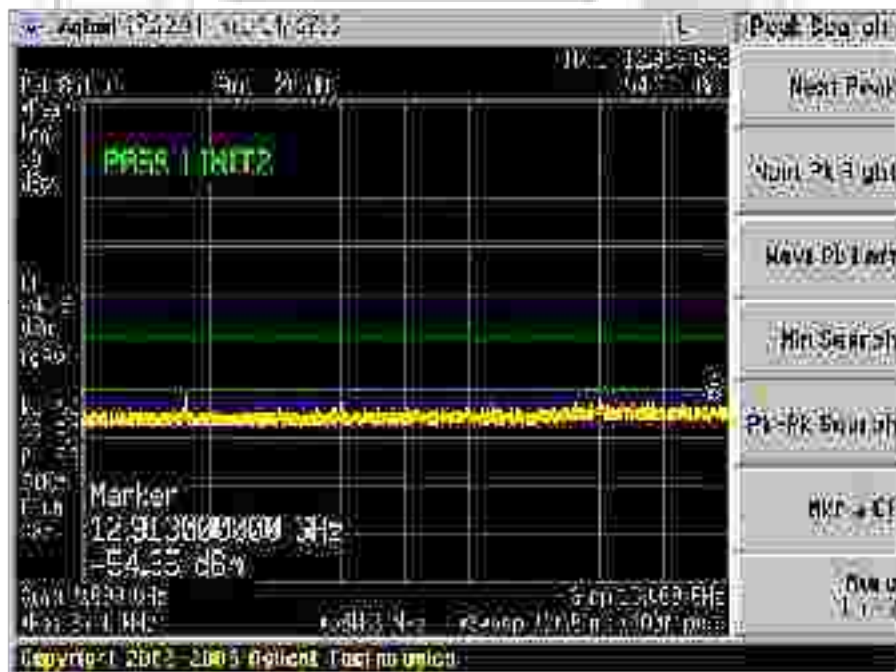


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 182 – Channel 1 (lower ch) @16QAM 36Mbps

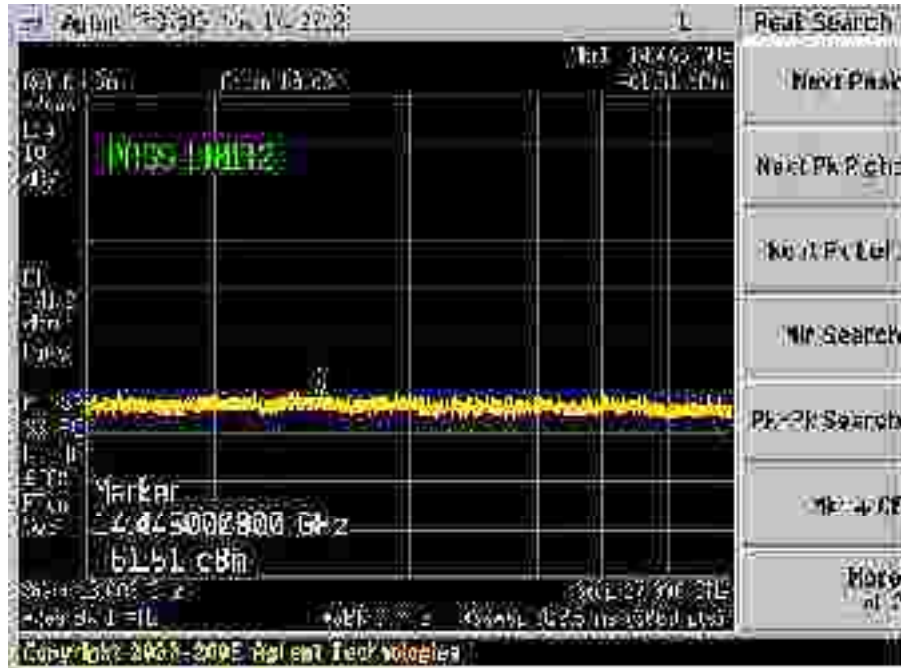


Plot 183 – Channel 1 (lower ch) @16QAM 36Mbps

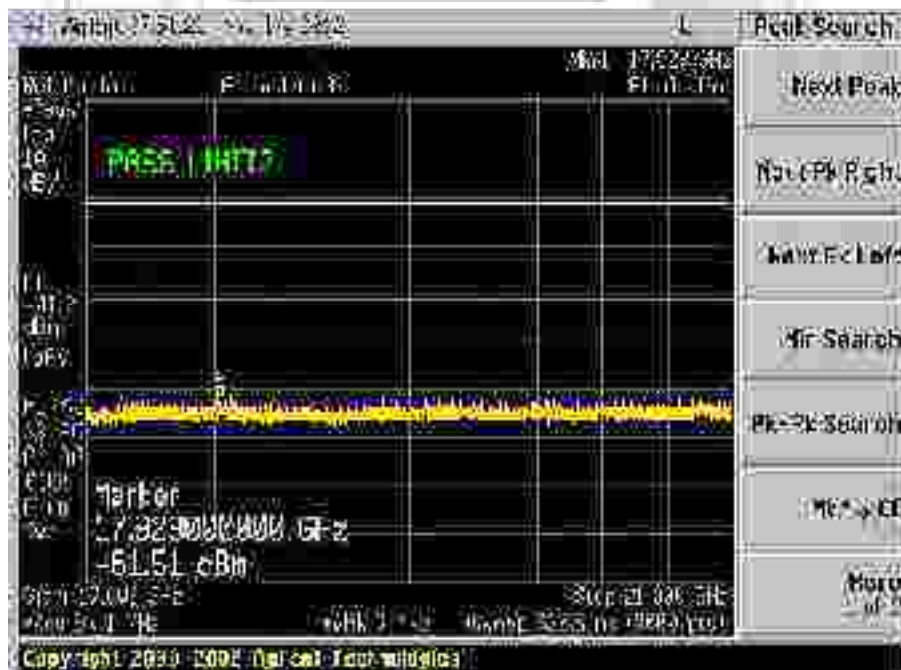


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 184 – Channel 1 (lower ch) @16QAM 36Mbps

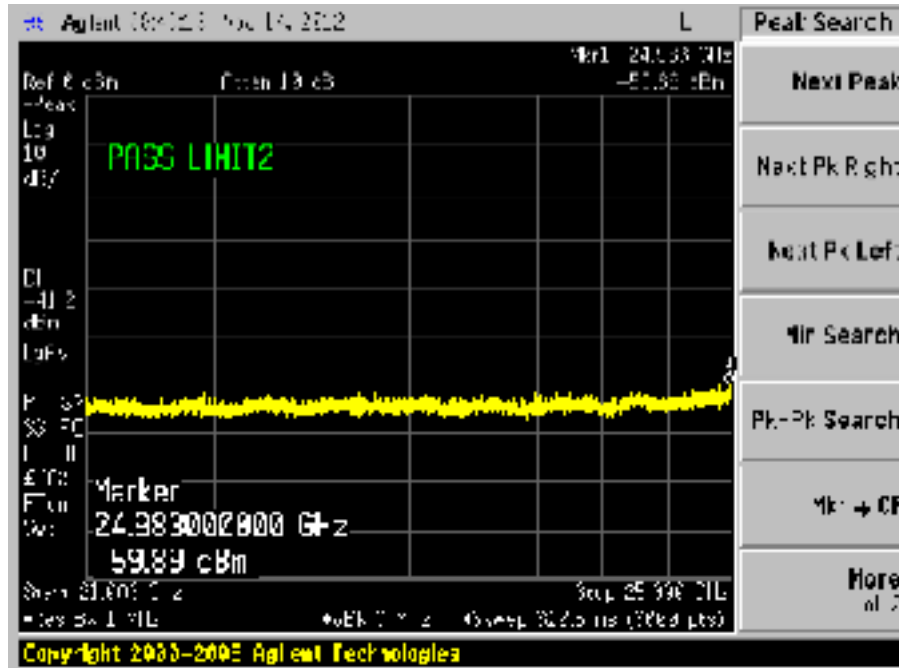


Plot 185 – Channel 1 (lower ch) @16QAM 36Mbps

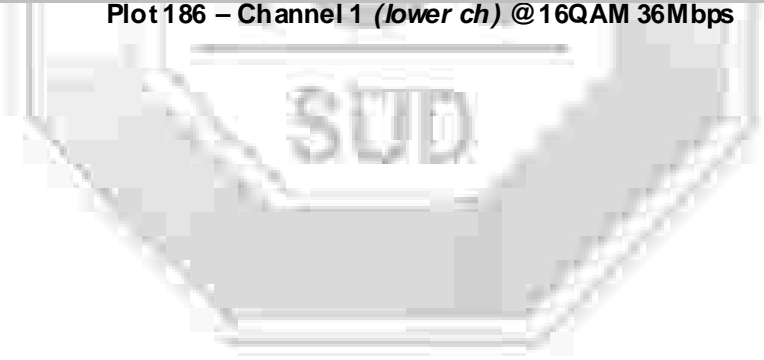


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



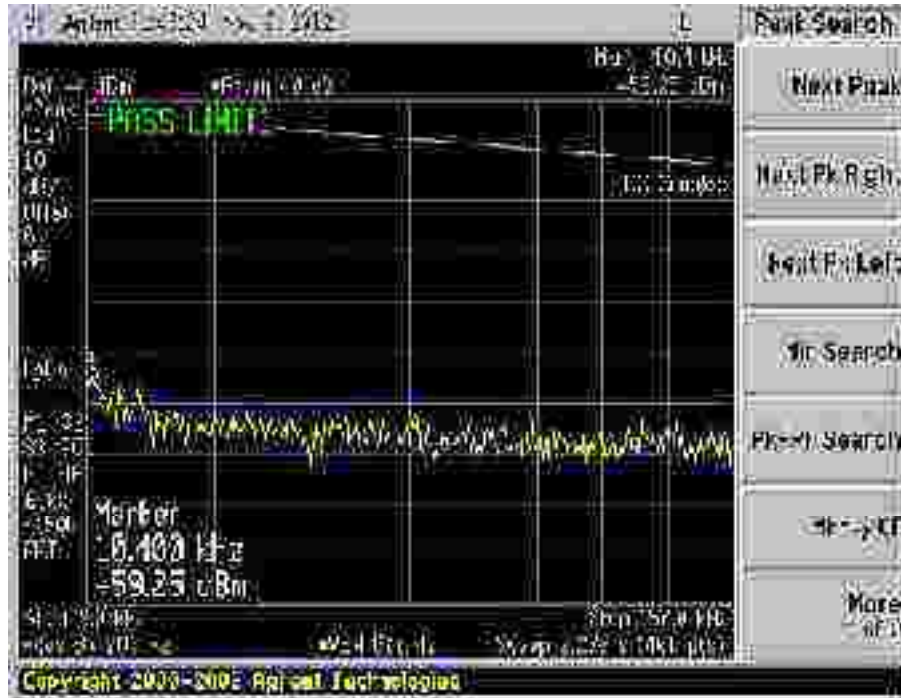
Plot 186 – Channel 1 (lower ch) @16QAM 36Mbps



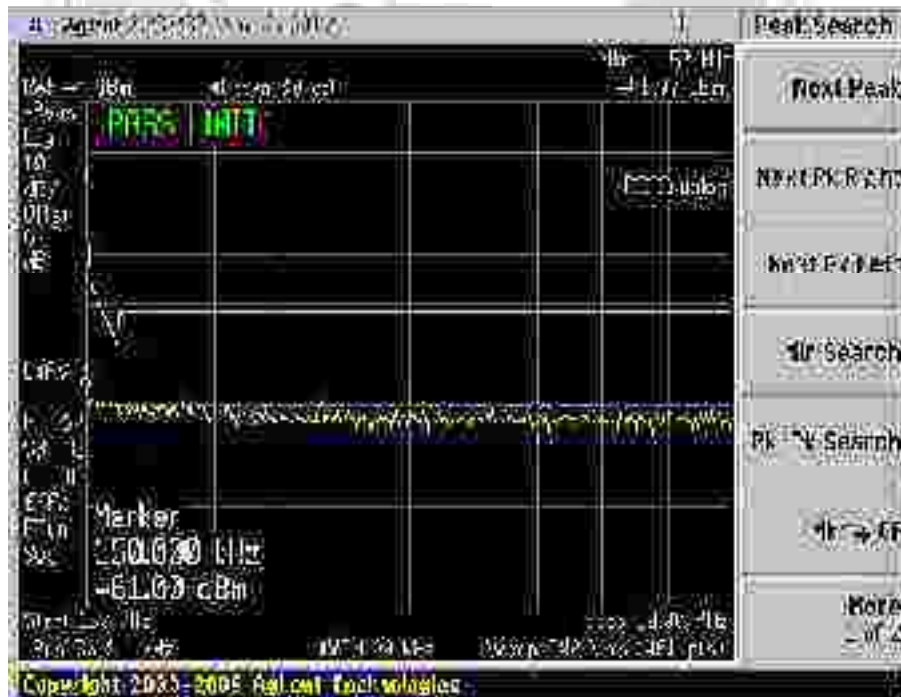


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 187 – Channel 1 (lower ch) @64QAM 54Mbps

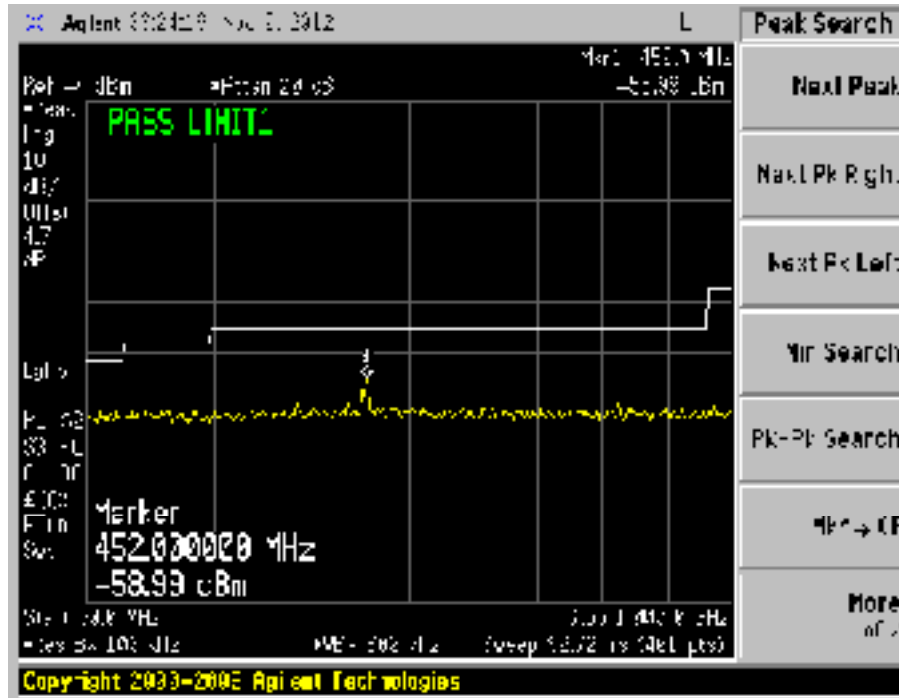


Plot 188 – Channel 1 (lower ch) @64QAM 54Mbps

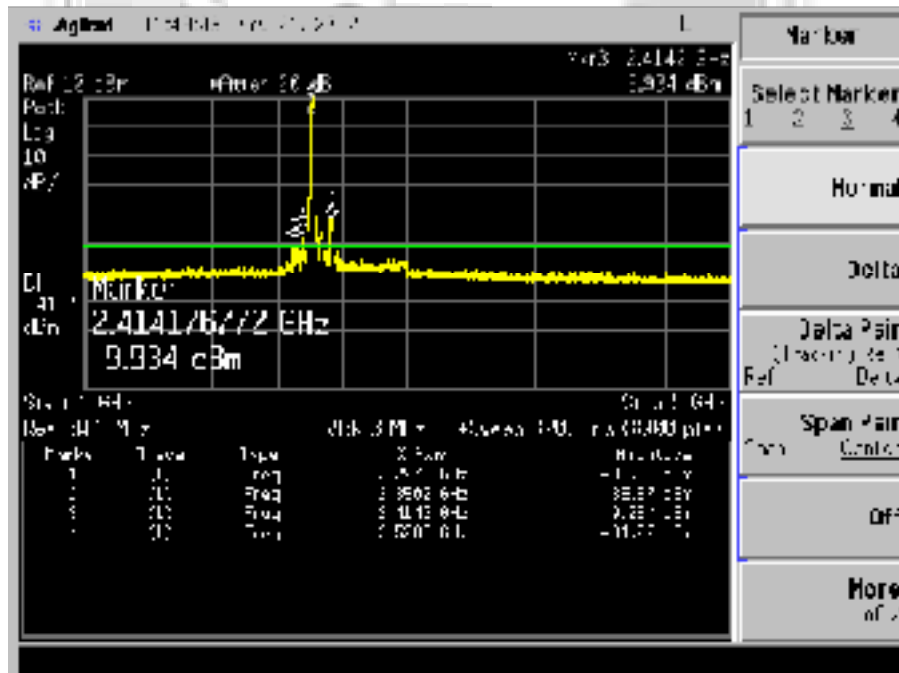


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 189 – Channel 1 (lower ch) @64QAM 54Mbps

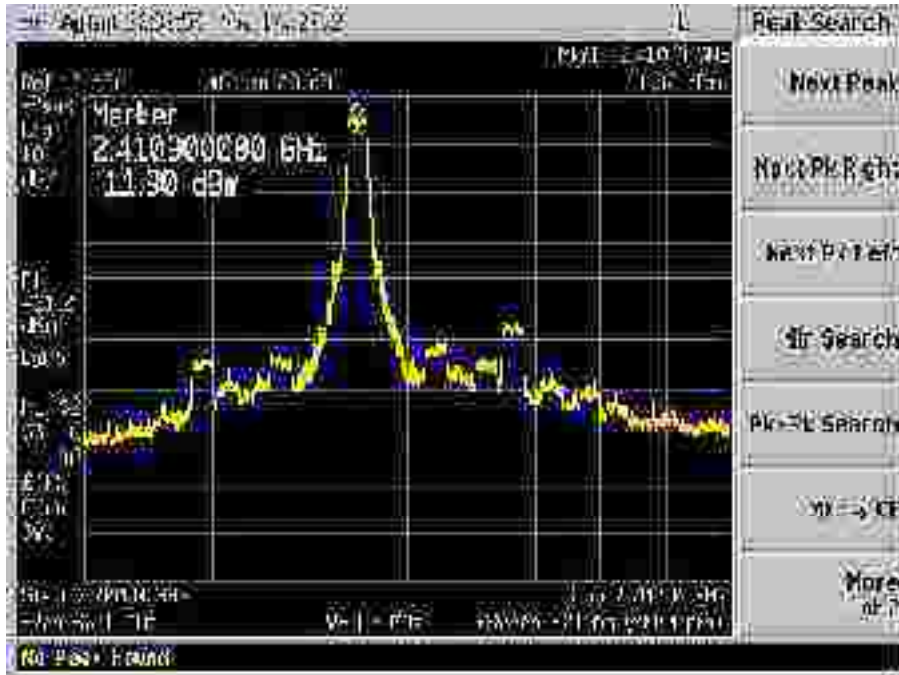


Plot 190 – Channel 1 (lower ch) @64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 191 – Channel 1 (lower ch) @64QAM 54Mbps

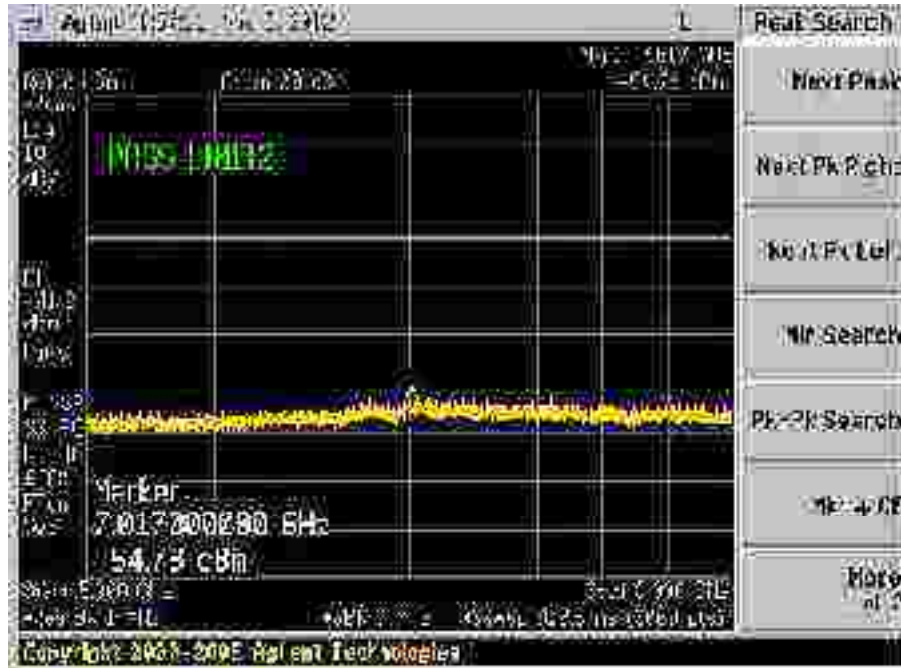


Plot 192 – Channel 1 (lower ch) @64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 193 – Channel 1 (lower ch) @64QAM 54Mbps

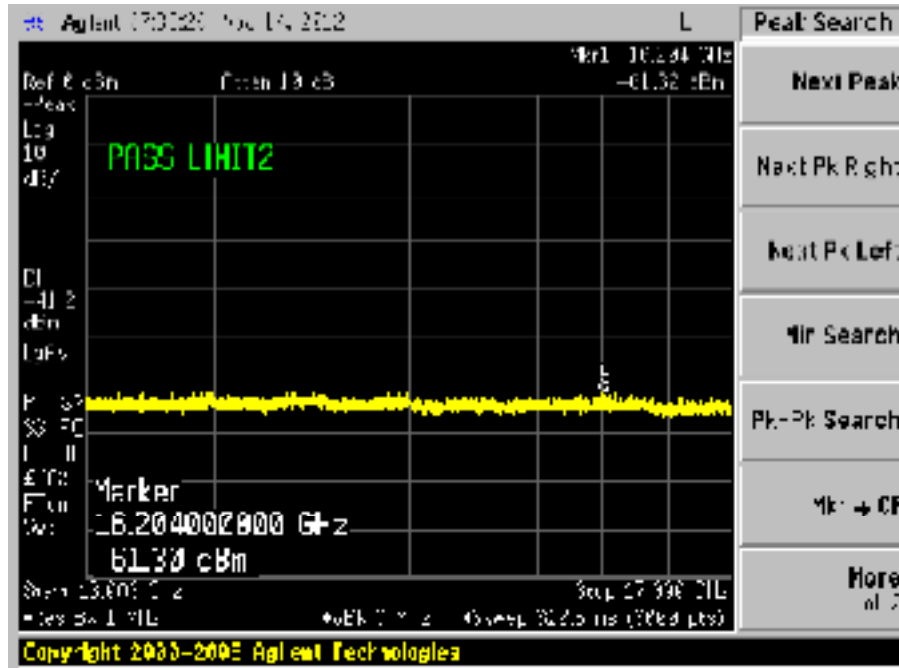


Plot 194 – Channel 1 (lower ch) @64QAM 54Mbps

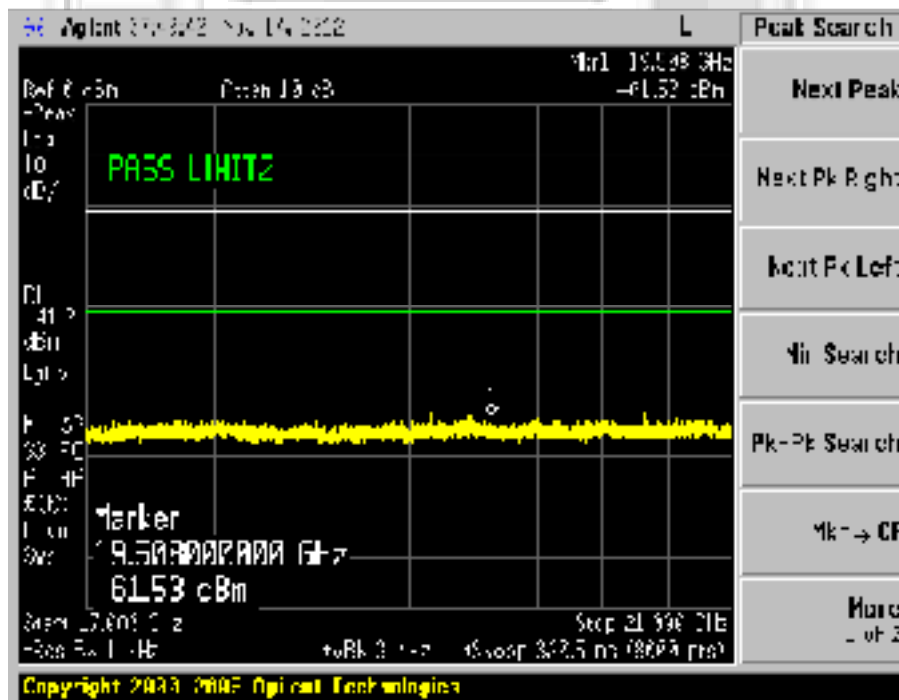


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 195 – Channel 1 (lower ch) @64QAM 54Mbps

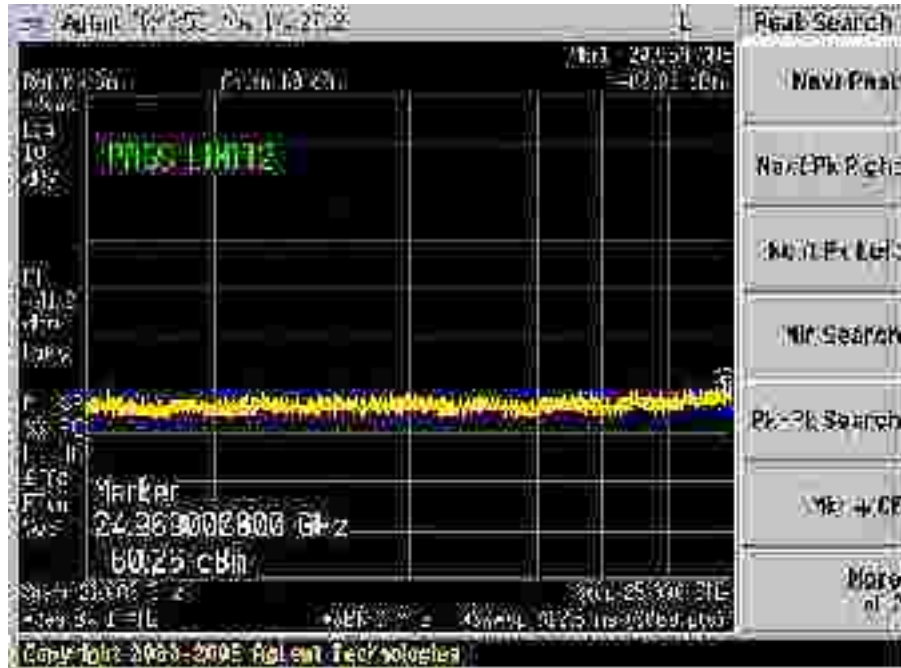


Plot 196 – Channel 1 (lower ch) @64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 197 – Channel 1 (lower ch) @ 64QAM 54Mbps



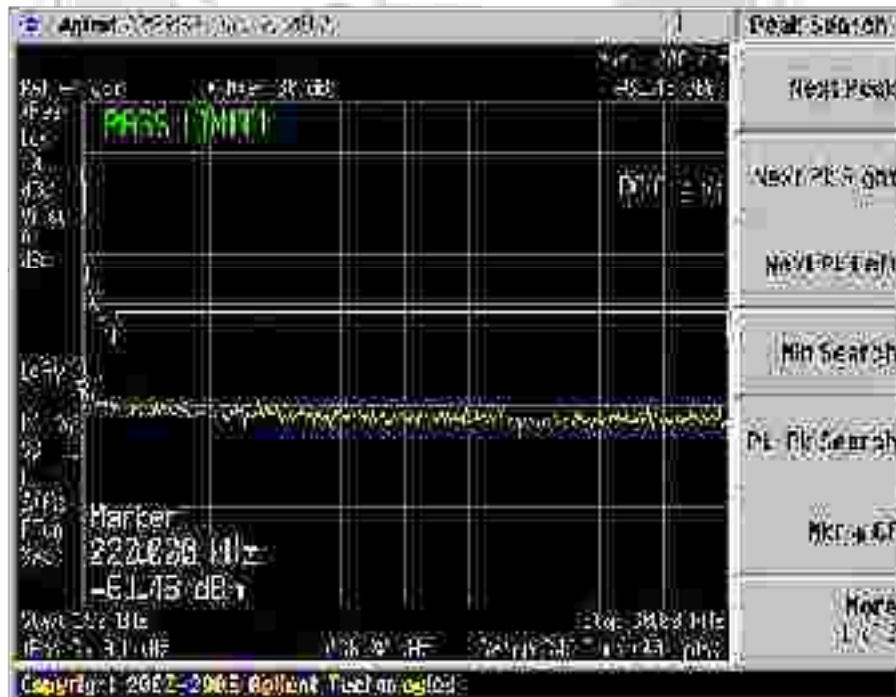


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 198 – Channel 6 (middle ch) @ DBPSK 1Mbps

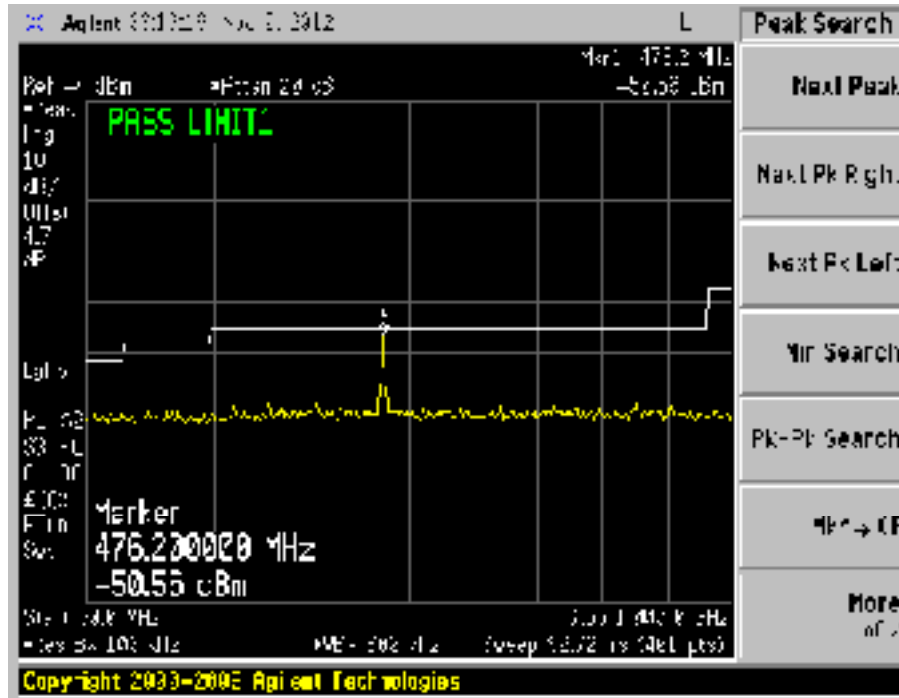


Plot 199 – Channel 6 (middle ch) @ DBPSK 1Mbps

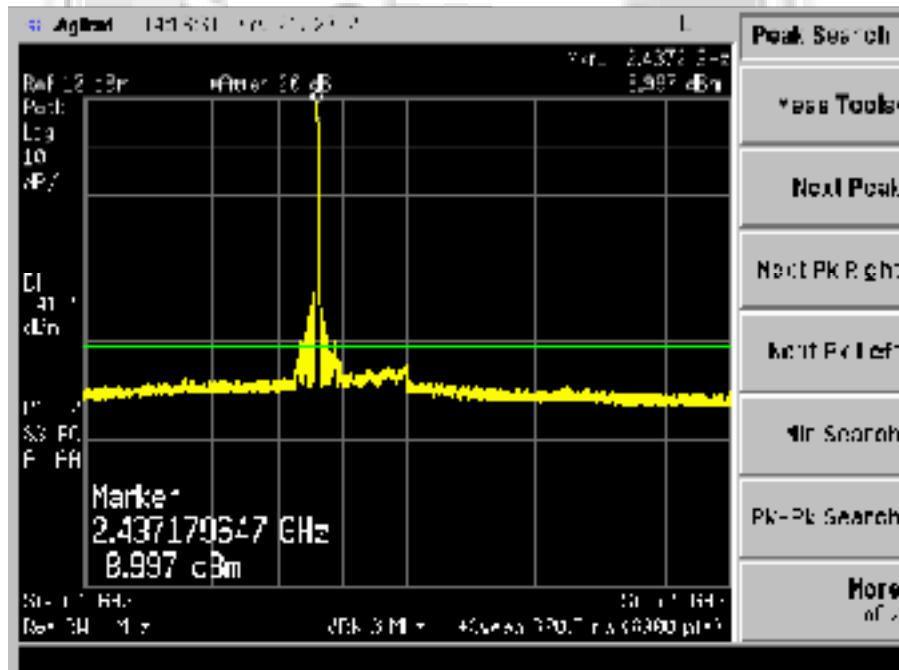


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 200 – Channel 6 (middle ch) @ DBPSK 1Mbps

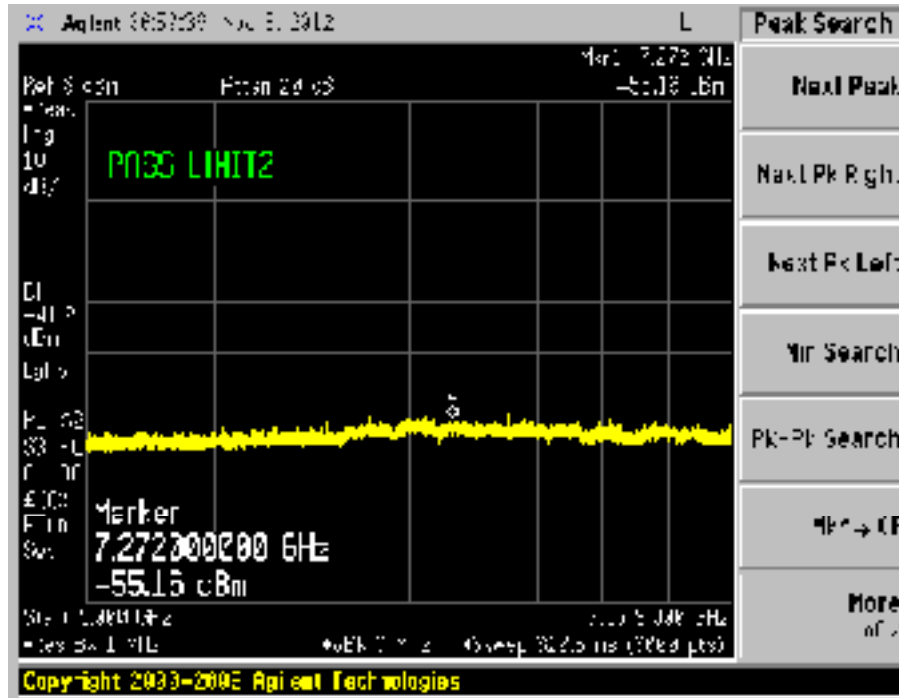


Plot 201 – Channel 6 (middle ch) @ DBPSK 1Mbps

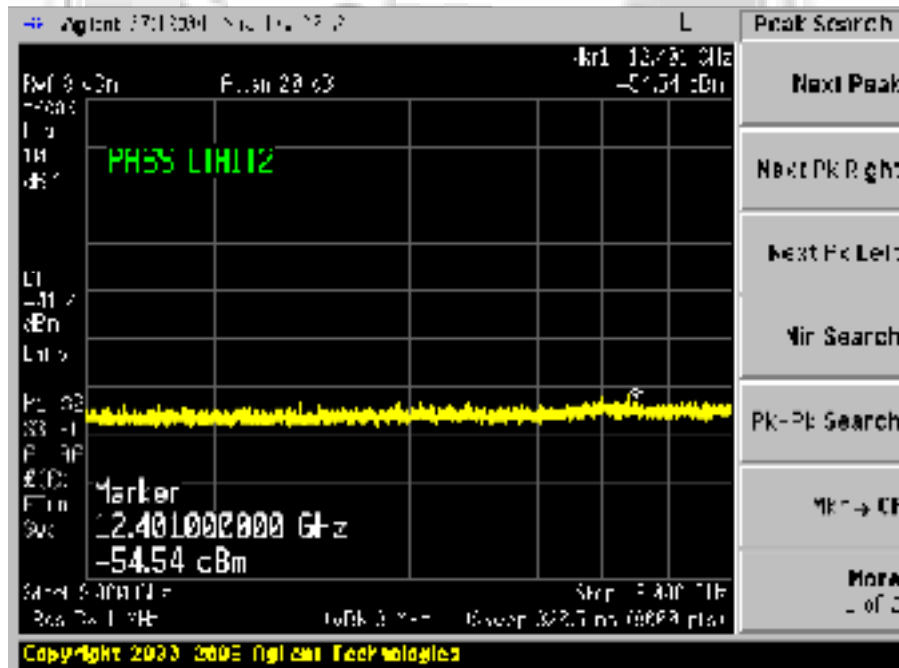


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 202 – Channel 6 (middle ch) @ DBPSK 1Mbps

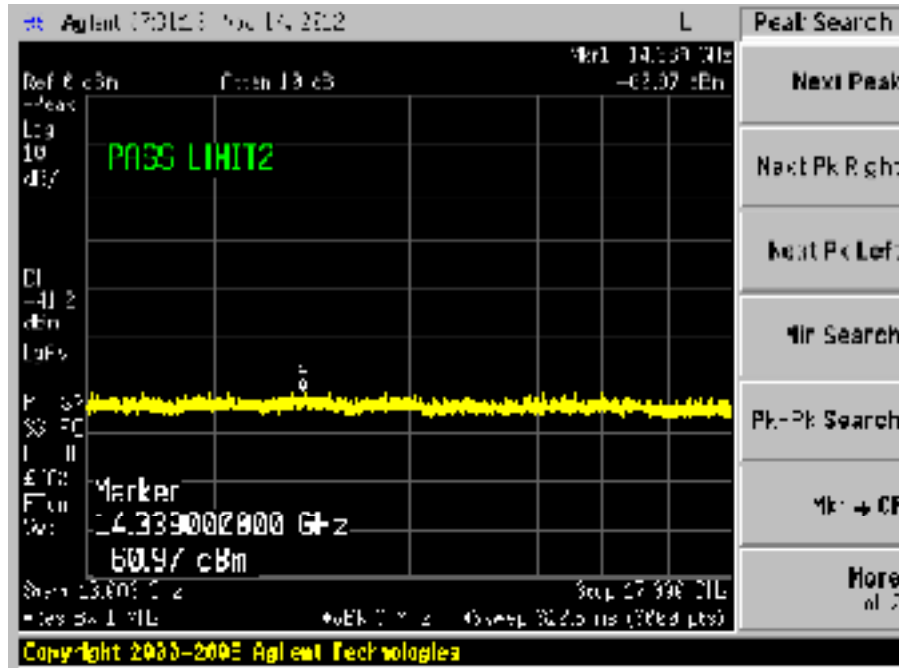


Plot 203 – Channel 6 (middle ch) @ DBPSK 1Mbps

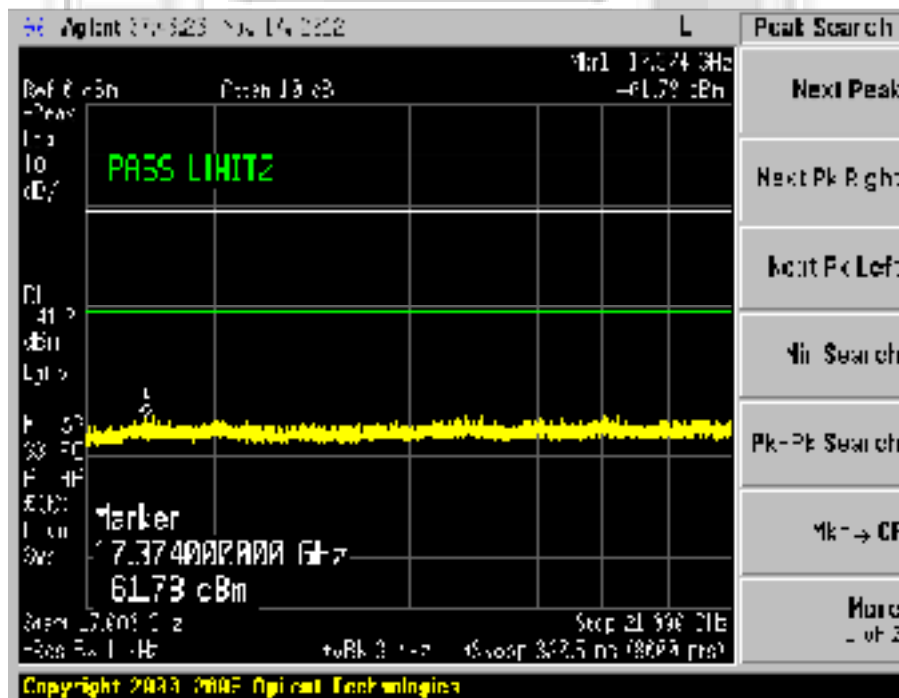


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 204 – Channel 6 (middle ch) @ DBPSK 1Mbps

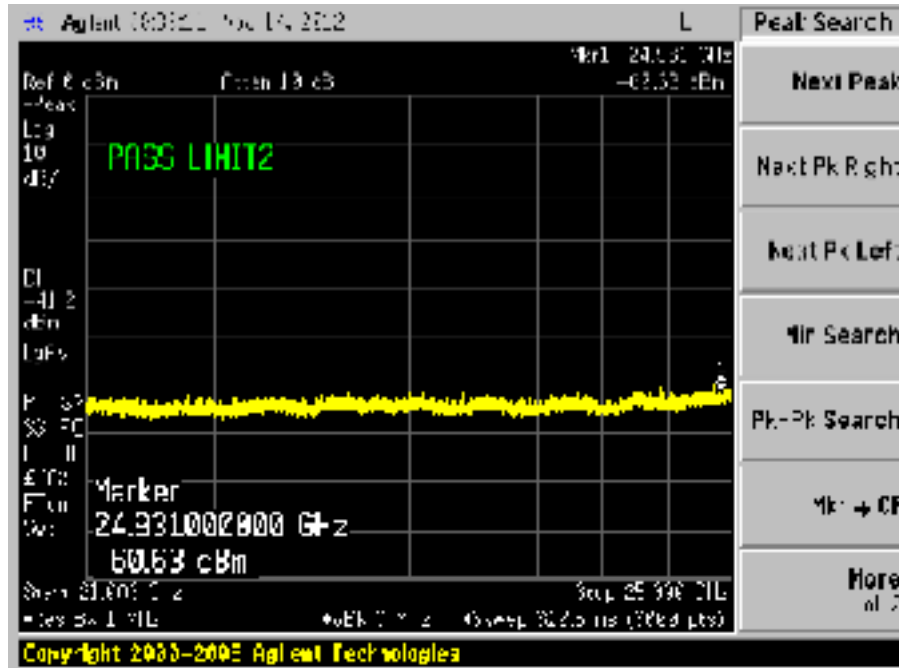


Plot 205 – Channel 6 (middle ch) @ DBPSK 1Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



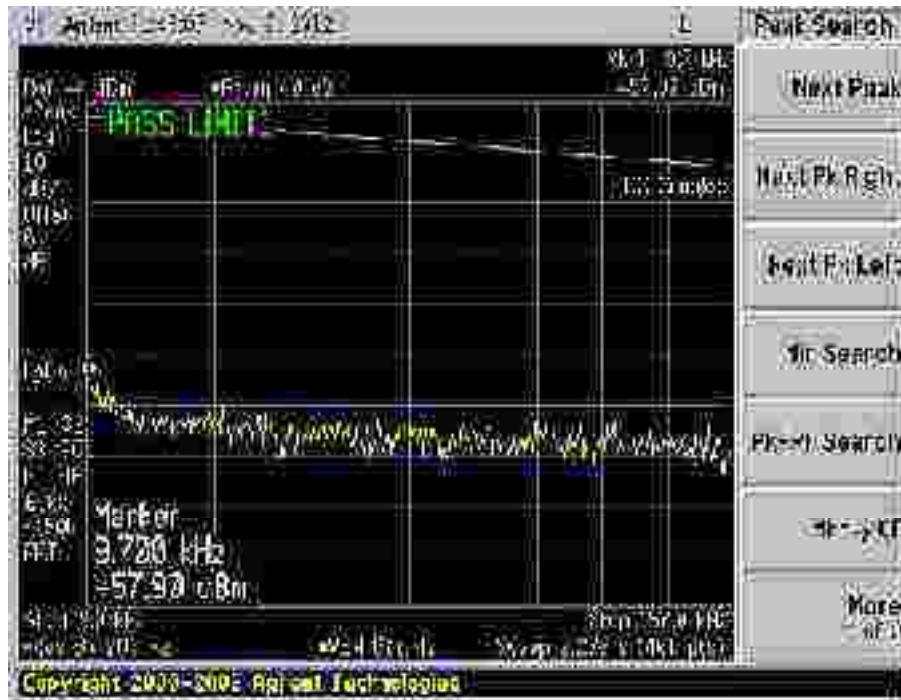
Plot 206 – Channel 6 (middle ch) @ DBPSK 1Mbps



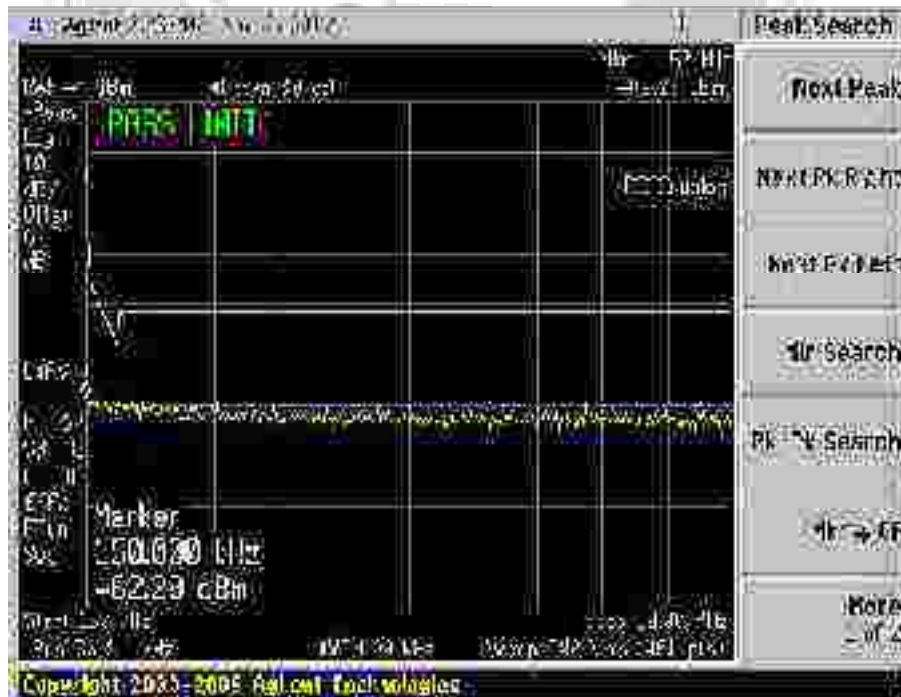


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 207 – Channel 6 (middle ch) @ DQPSK 2Mbps

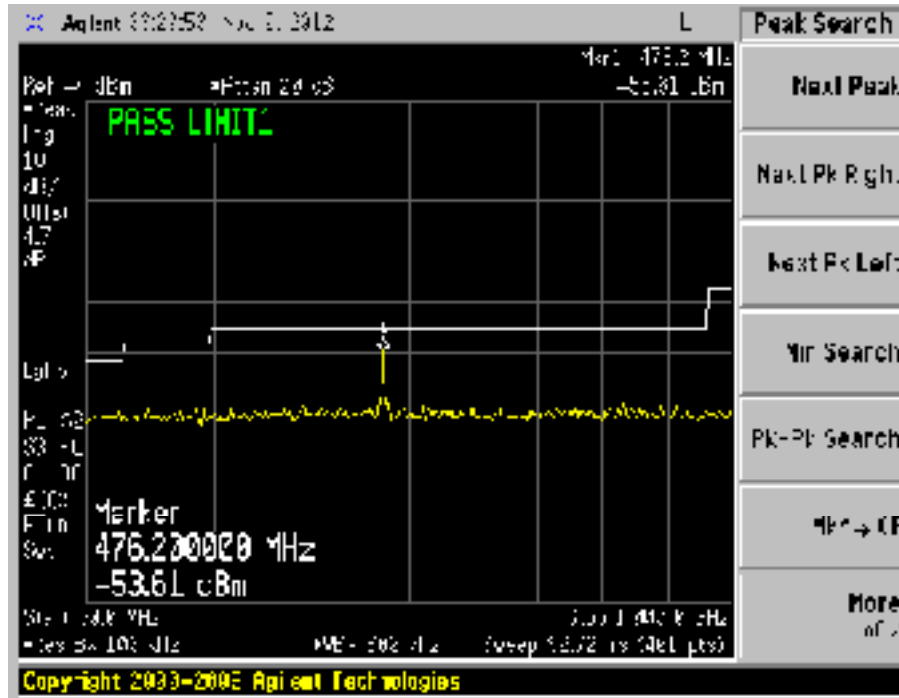


Plot 208 – Channel 6 (middle ch) @ DQPSK 2Mbps

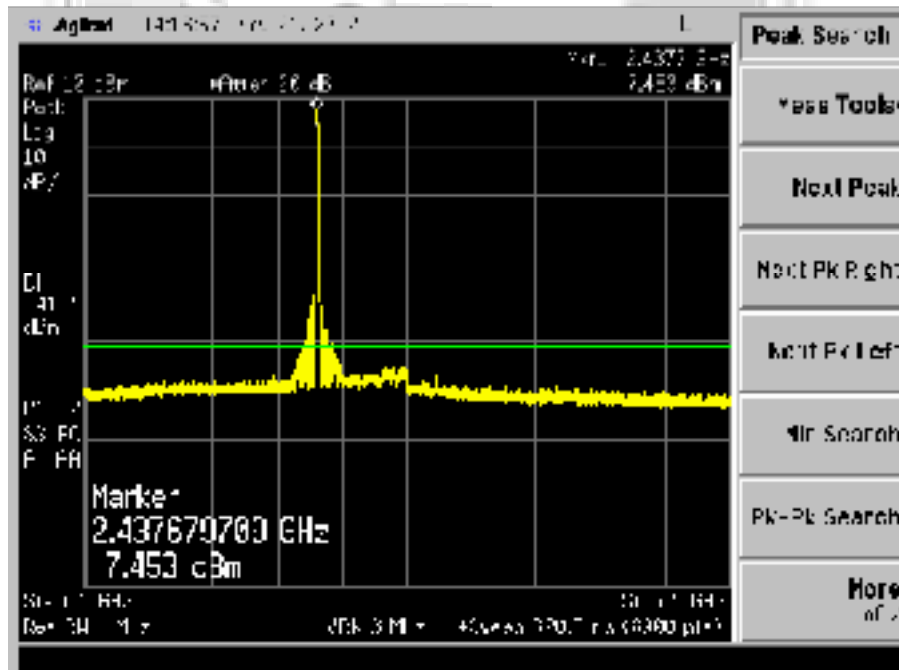


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 209 – Channel 6 (middle ch) @ DQPSK 2Mbps

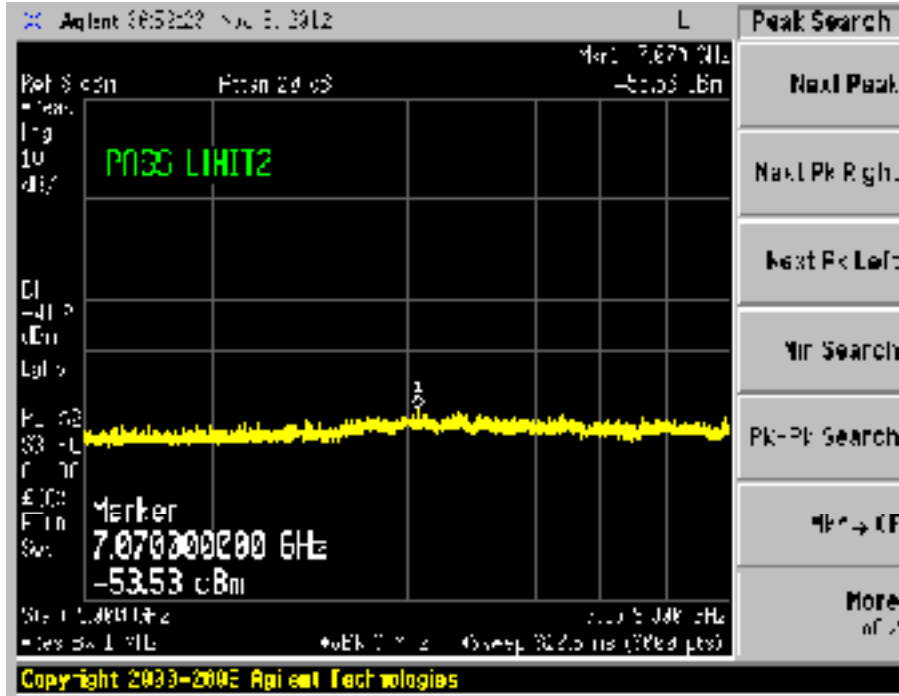


Plot 210 – Channel 6 (middle ch) @ DQPSK 2Mbps

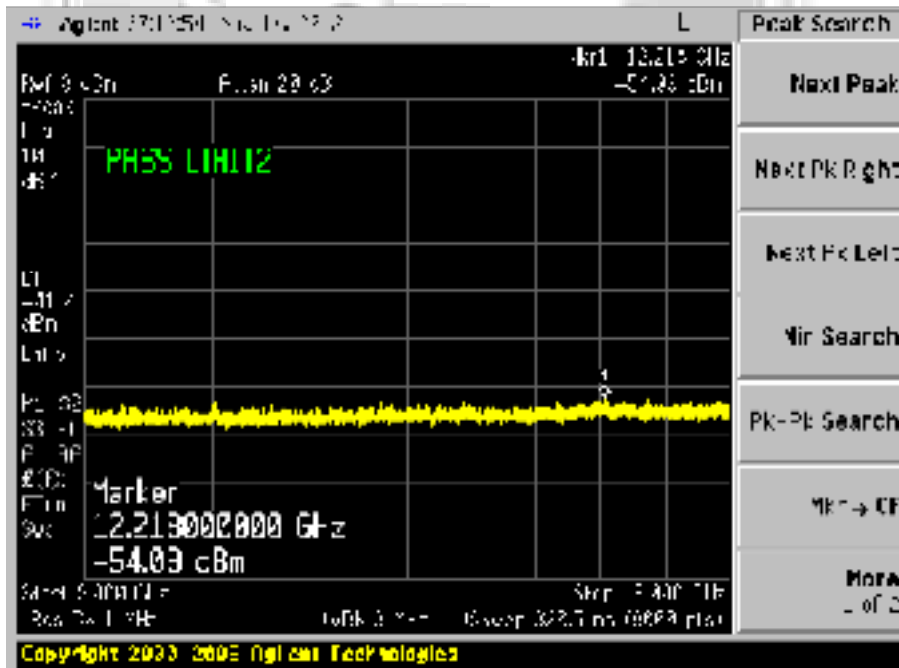


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 211 – Channel 6 (middle ch) @ DQPSK 2Mbps

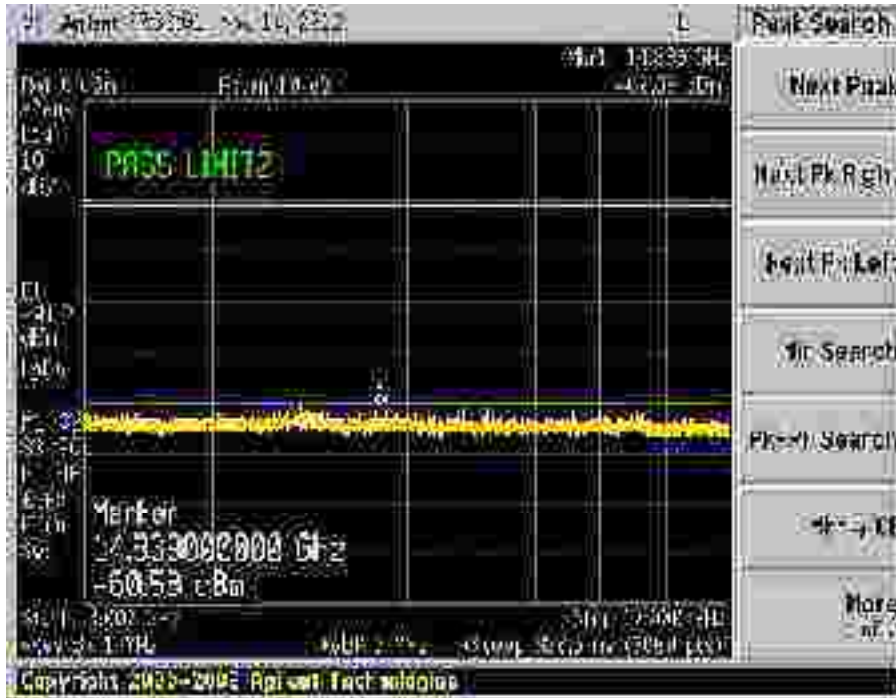


Plot 212 – Channel 6 (middle ch) @ DQPSK 2Mbps

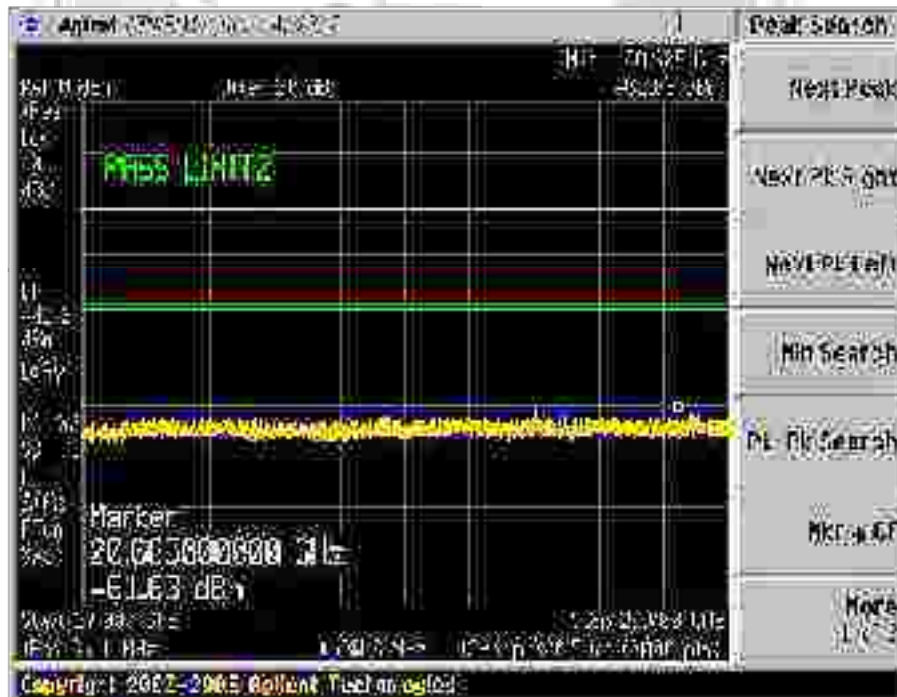


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 213 – Channel 6 (middle ch) @ DQPSK 2Mbps

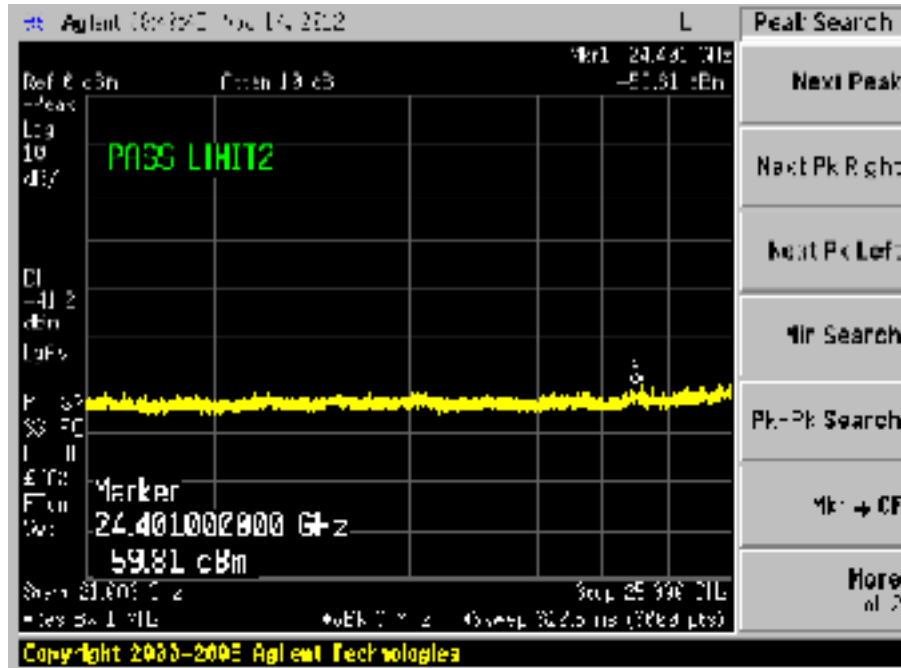


Plot 214 – Channel 6 (middle ch) @ DQPSK 2Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 215 – Channel 6 (middle ch) @ DQPSK 2Mbps



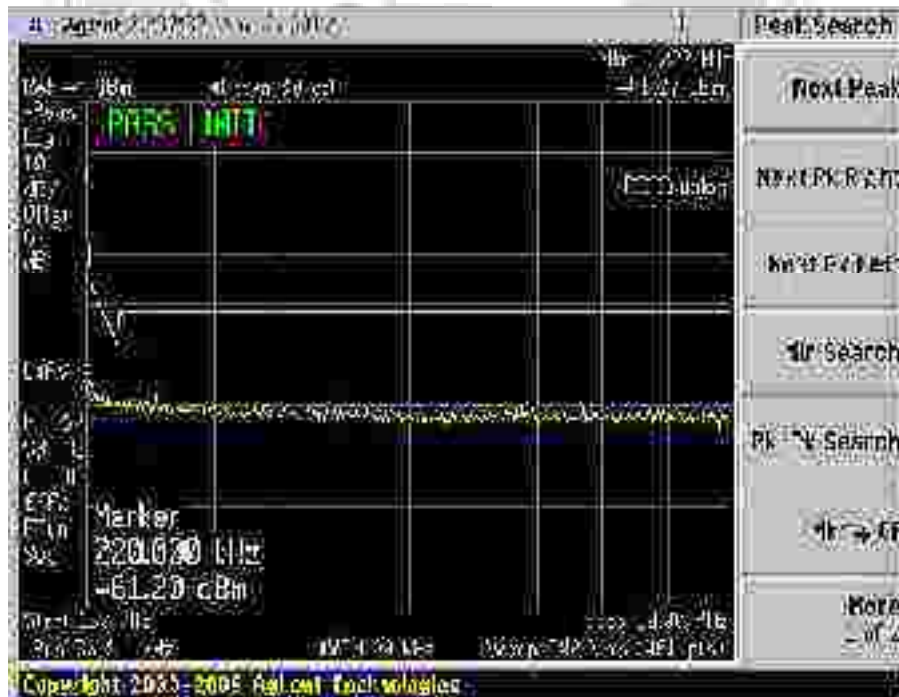


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 216 – Channel 6 (middle ch) @ CCK 11Mbps

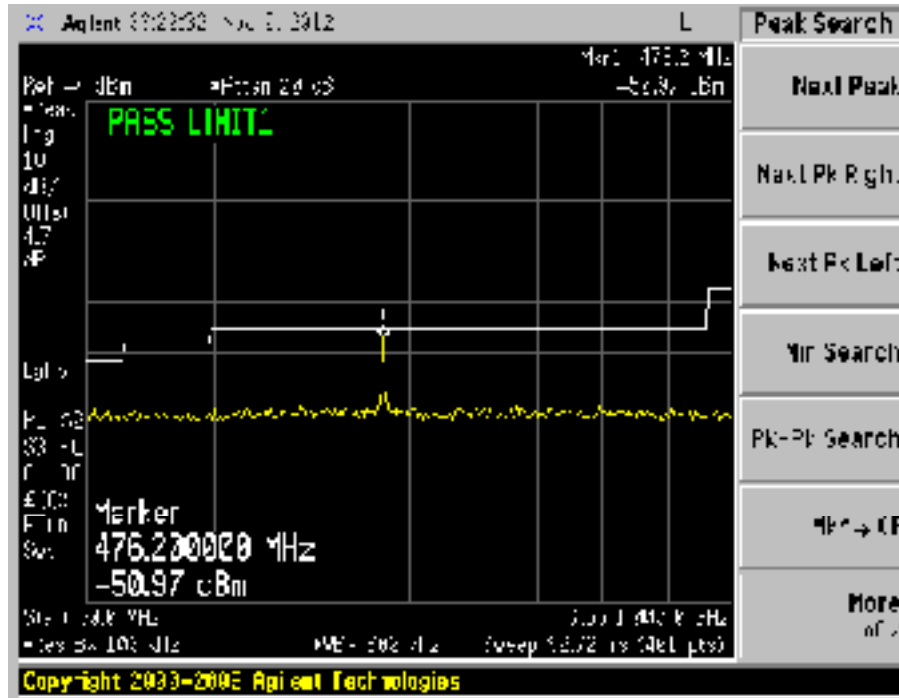


Plot 217 – Channel 6 (middle ch) @ CCK 11Mbps

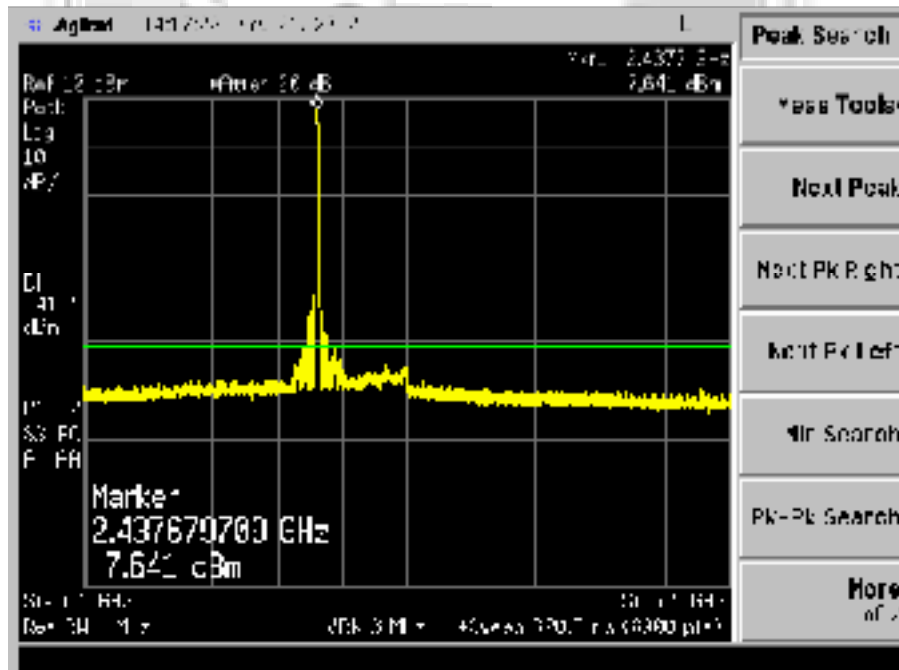


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 218 – Channel 6 (middle ch) @ CCK 11Mbps

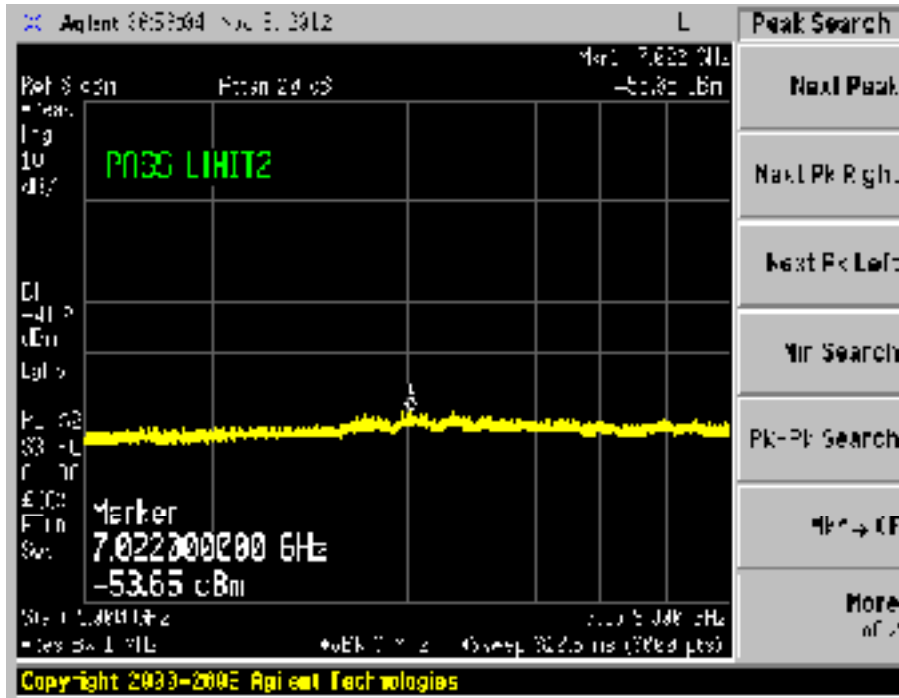


Plot 219 – Channel 6 (middle ch) @ CCK 11Mbps

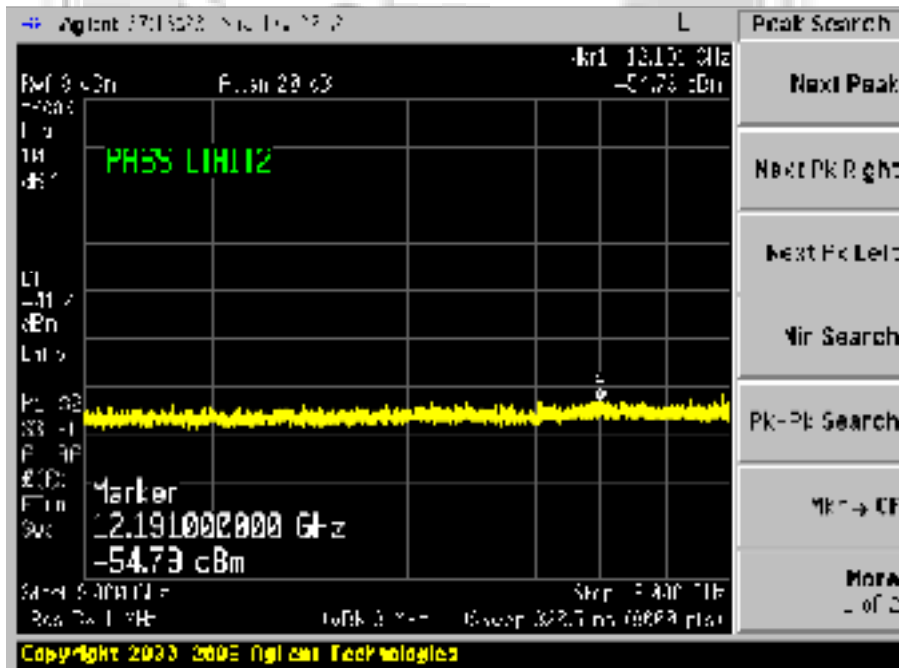


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 220 – Channel 6 (middle ch) @ CCK 11Mbps

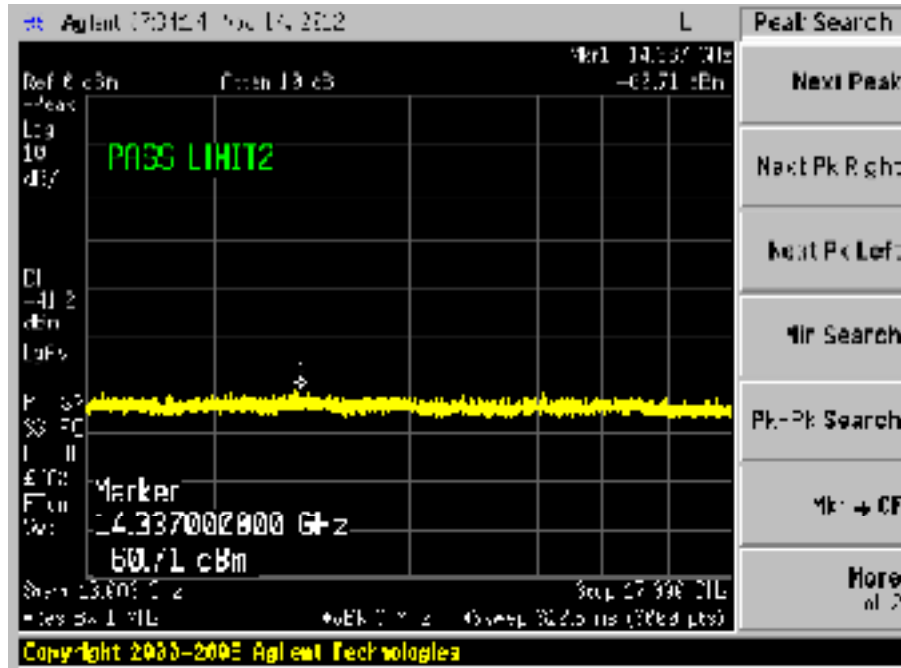


Plot 221 – Channel 6 (middle ch) @ CCK 11Mbps

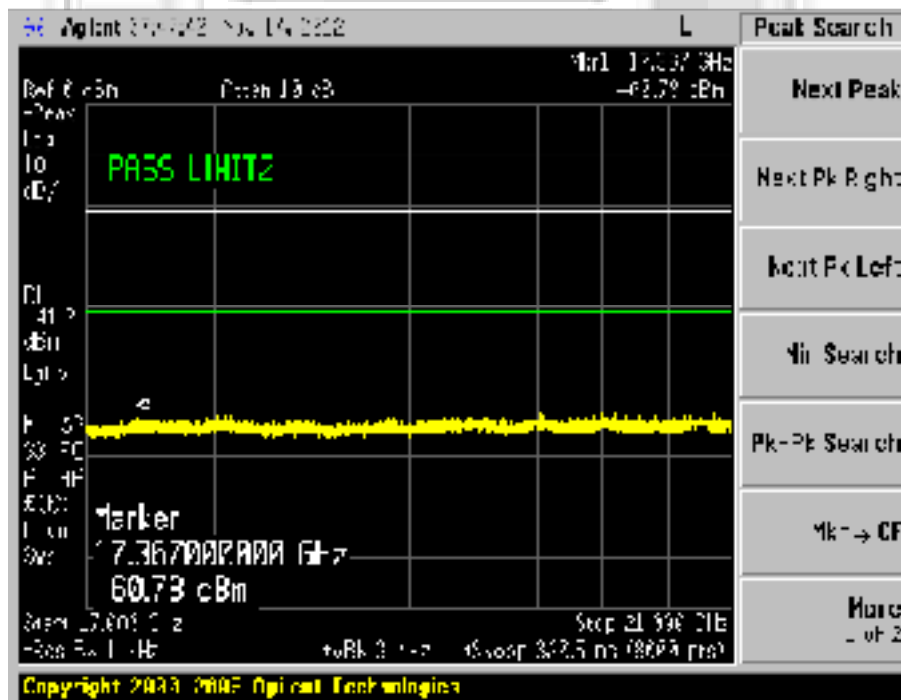


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 222 – Channel 6 (middle ch) @ CCK 11Mbps

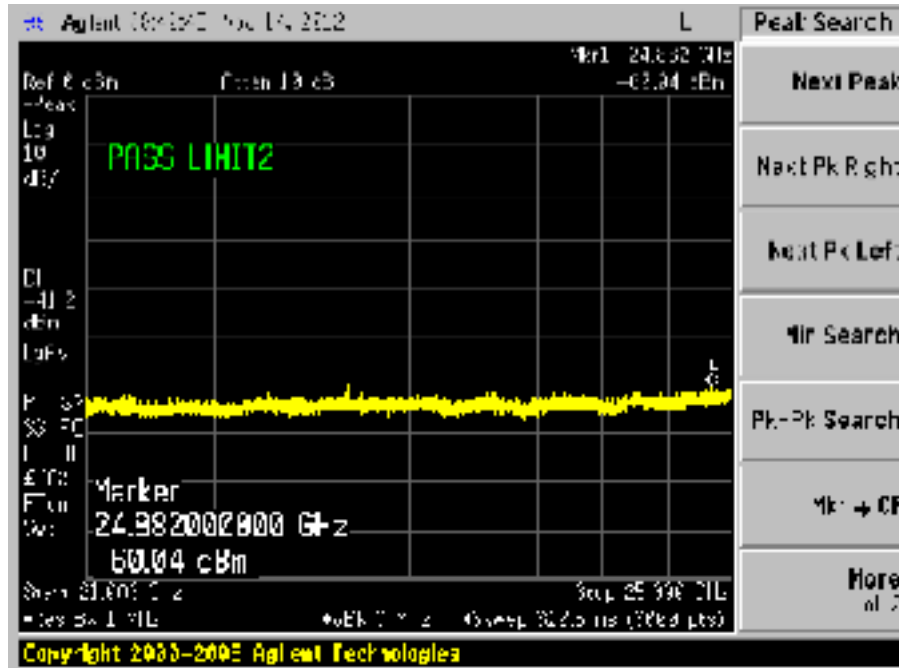


Plot 223 – Channel 6 (middle ch) @ CCK 11Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



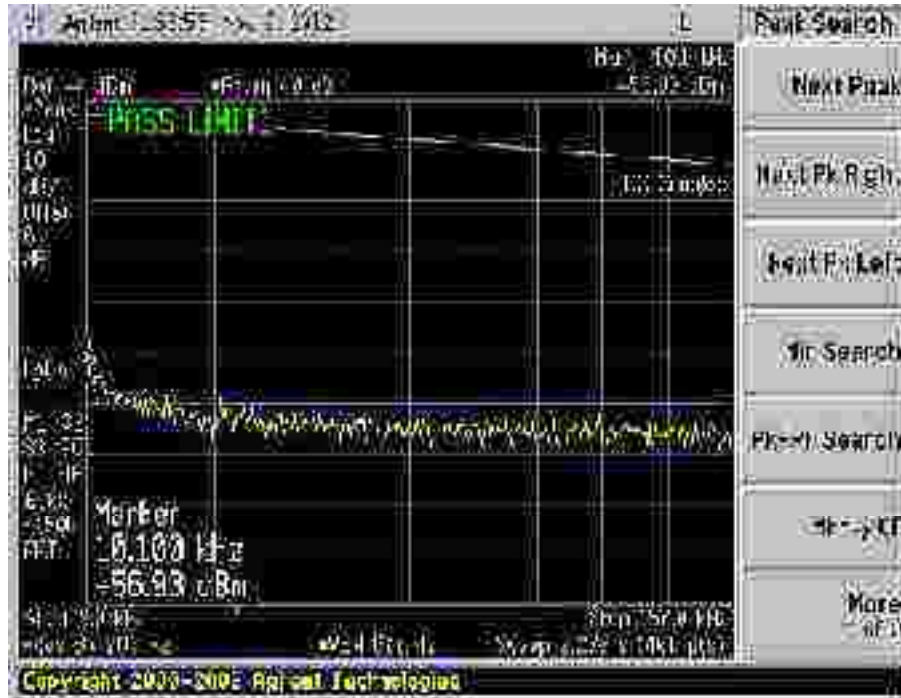
Plot 224 – Channel 6 (middle ch) @ CCK 11Mbps



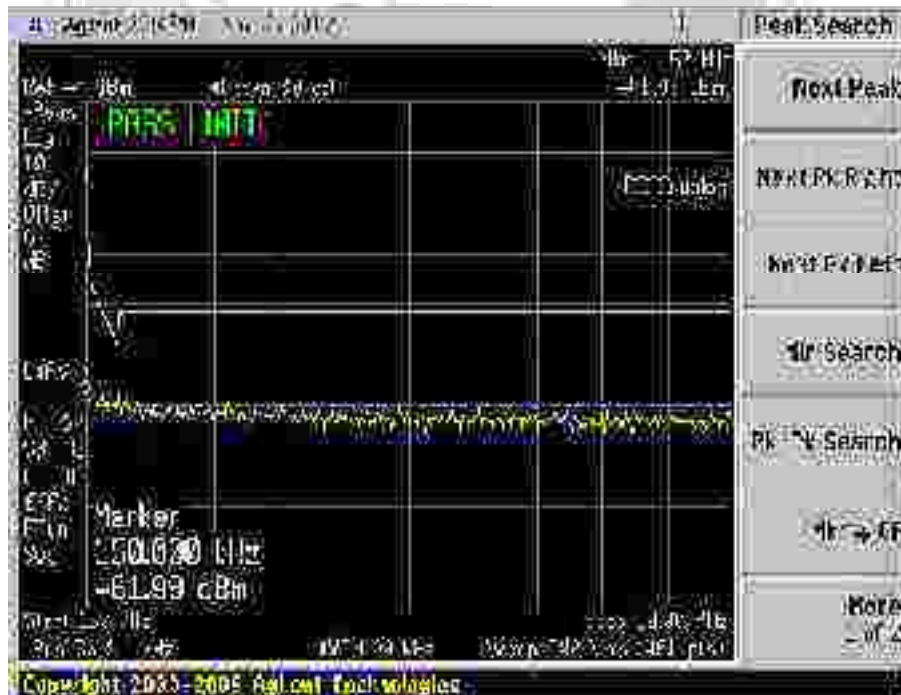


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 225 – Channel 6 (middle ch) @ BPSK 9Mbps

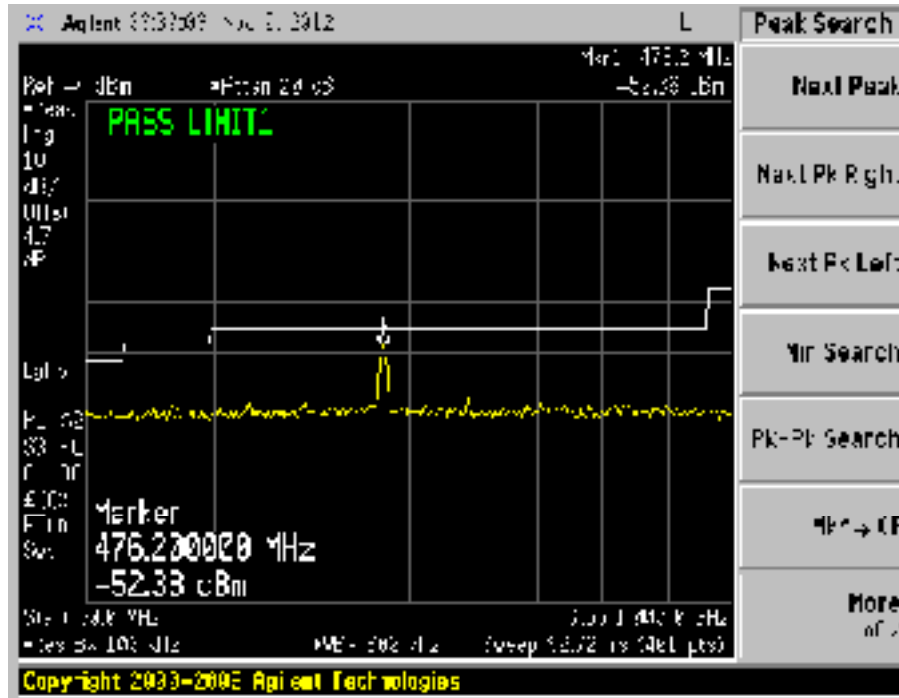


Plot 226 – Channel 6 (middle ch) @ BPSK 9Mbps

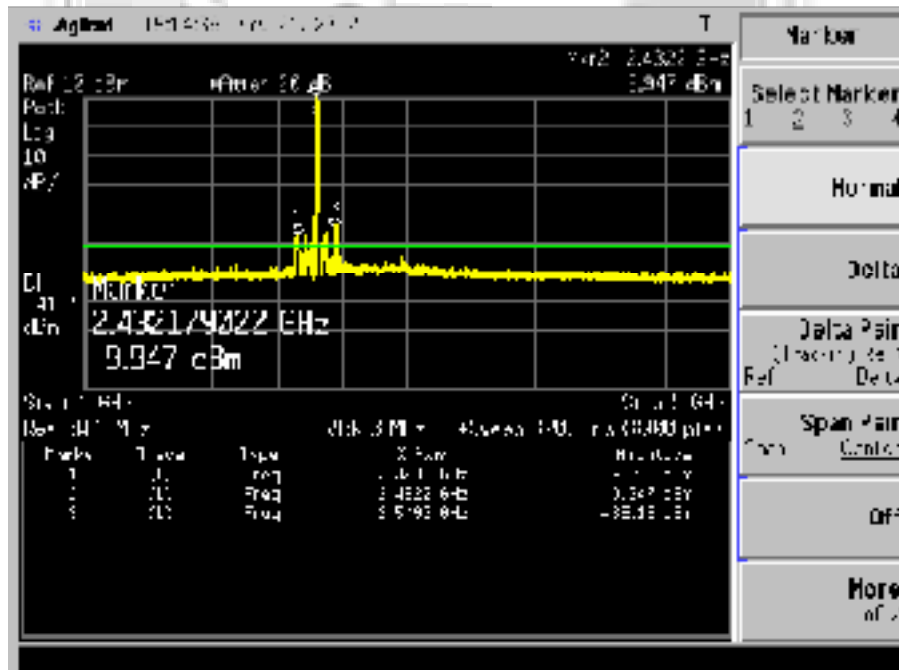


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 227 – Channel 6 (middle ch) @ BPSK 9Mbps

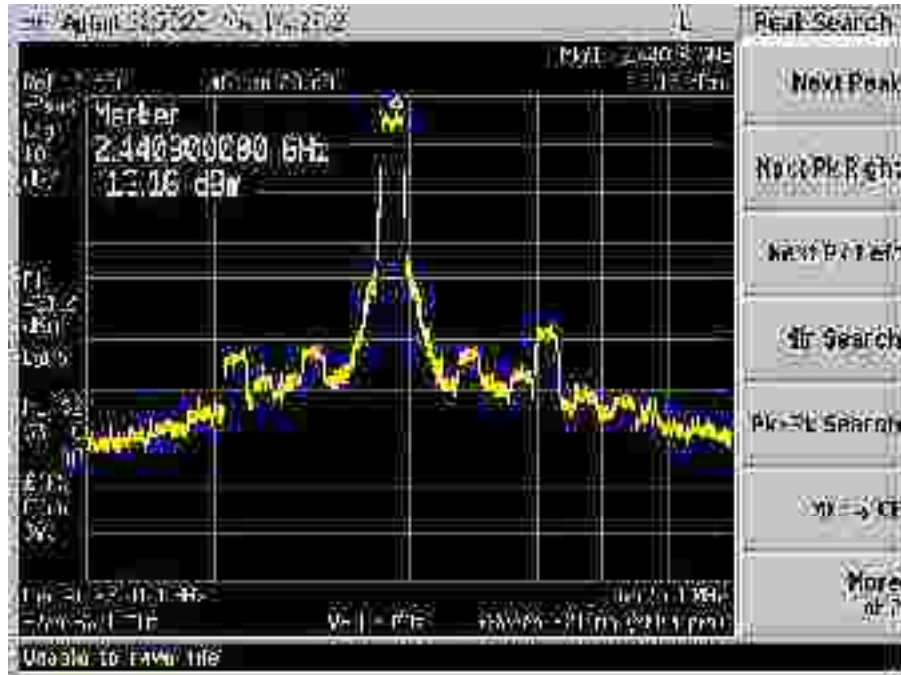


Plot 228 – Channel 6 (middle ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 229 – Channel 6 (middle ch) @ BPSK 9Mbps

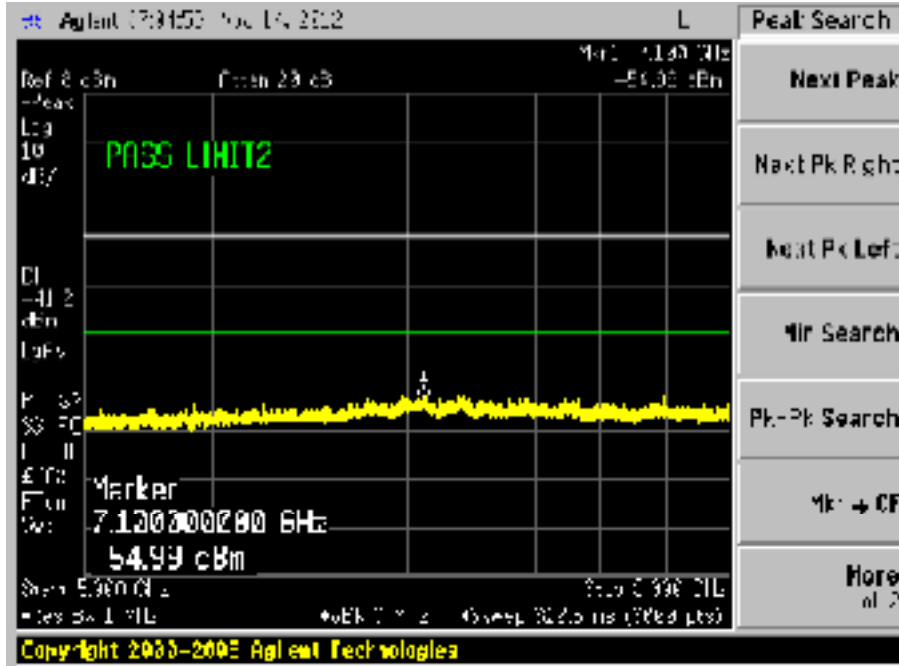


Plot 230 – Channel 6 (middle ch) @ BPSK 9Mbps

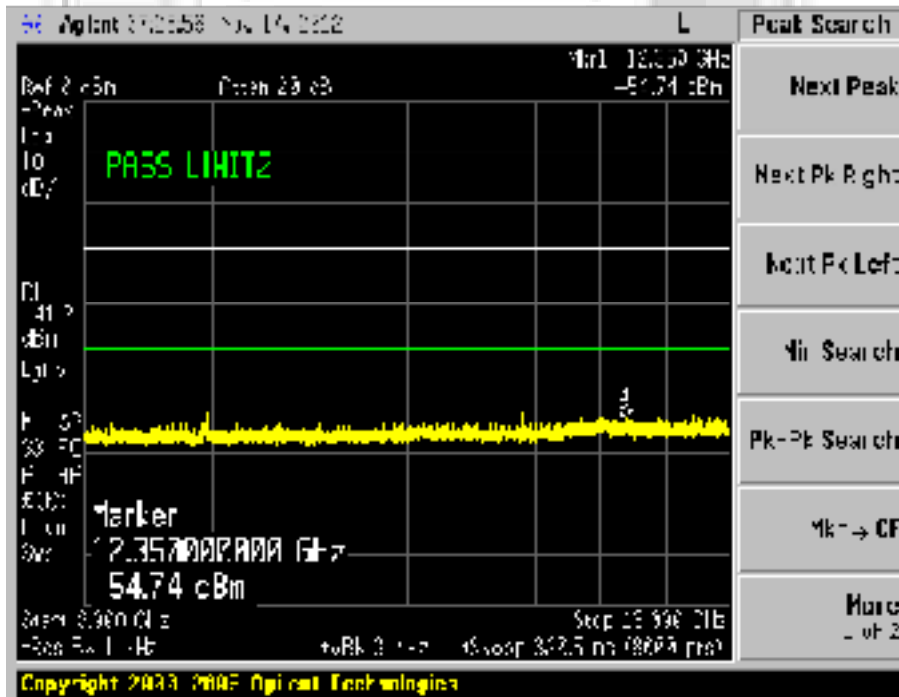


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 231 – Channel 6 (middle ch) @ BPSK 9Mbps

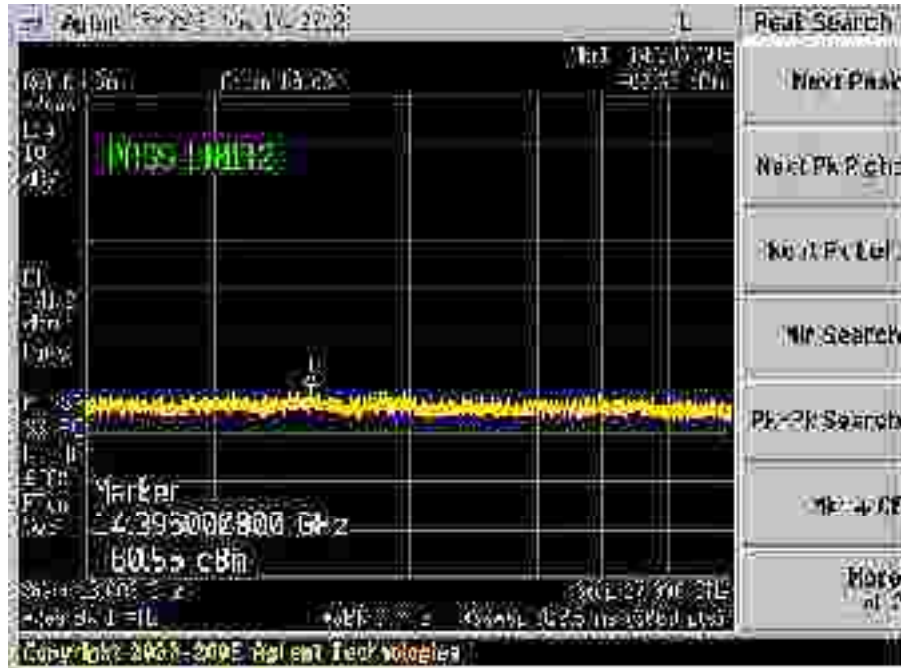


Plot 232 – Channel 6 (middle ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 233 – Channel 6 (middle ch) @ BPSK 9Mbps

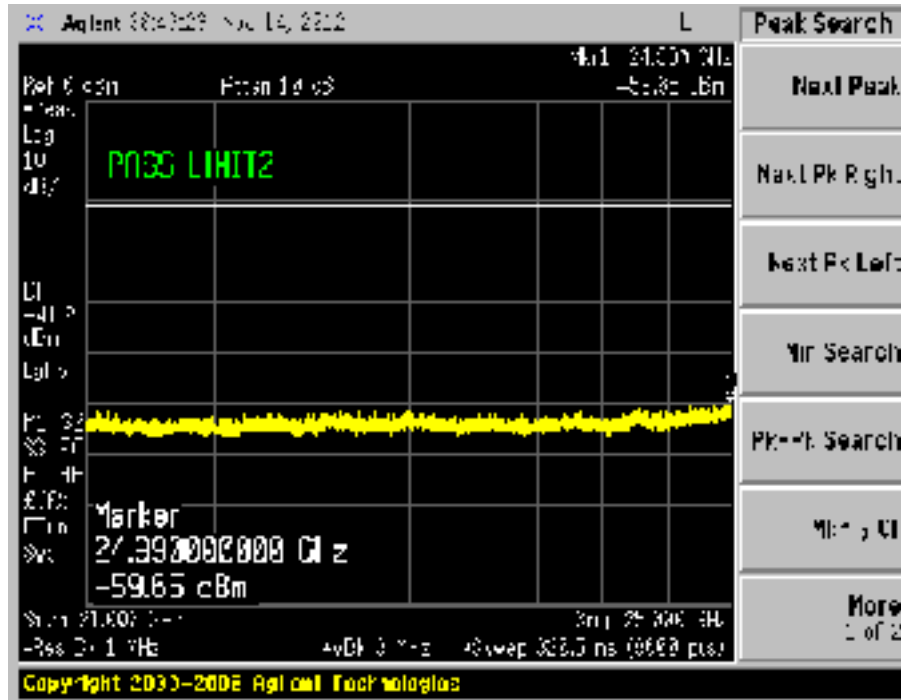


Plot 234 – Channel 6 (middle ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



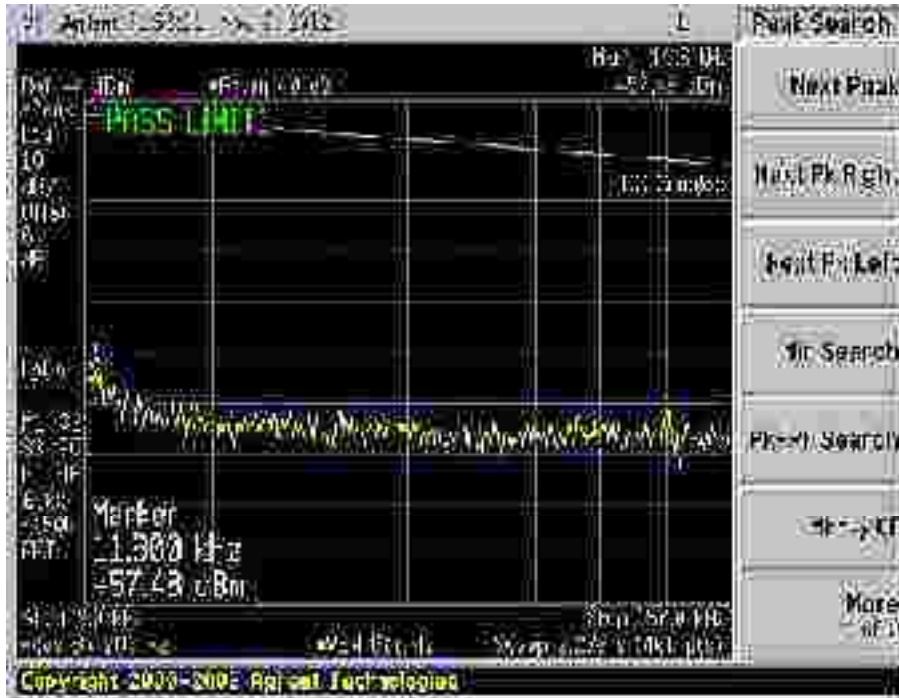
Plot 235 – Channel 6 (middle ch) @ BPSK 9Mbps



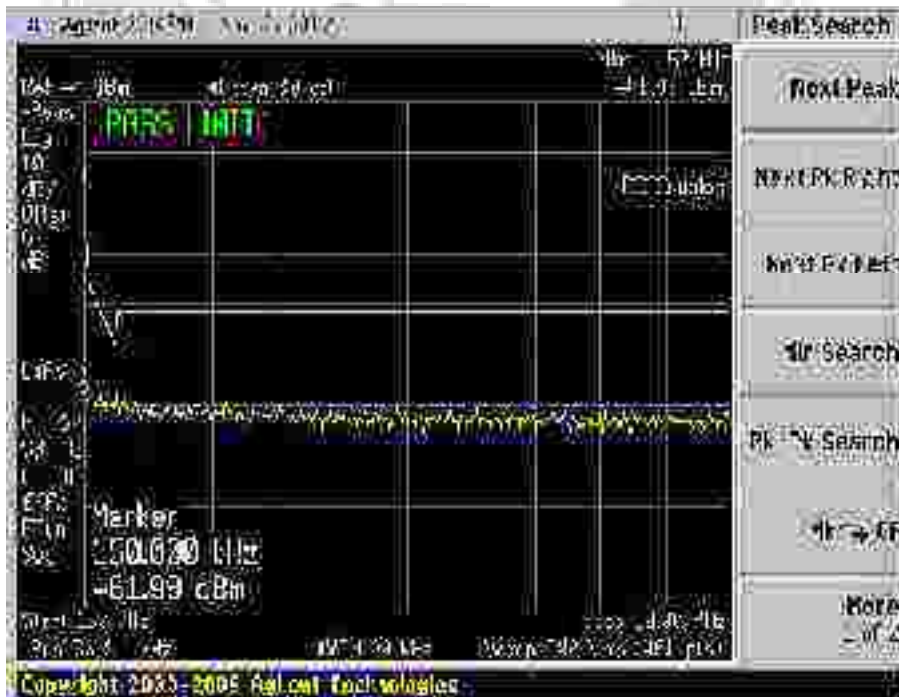


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 236 – Channel 6 (middle ch) @ QPSK 18Mbps

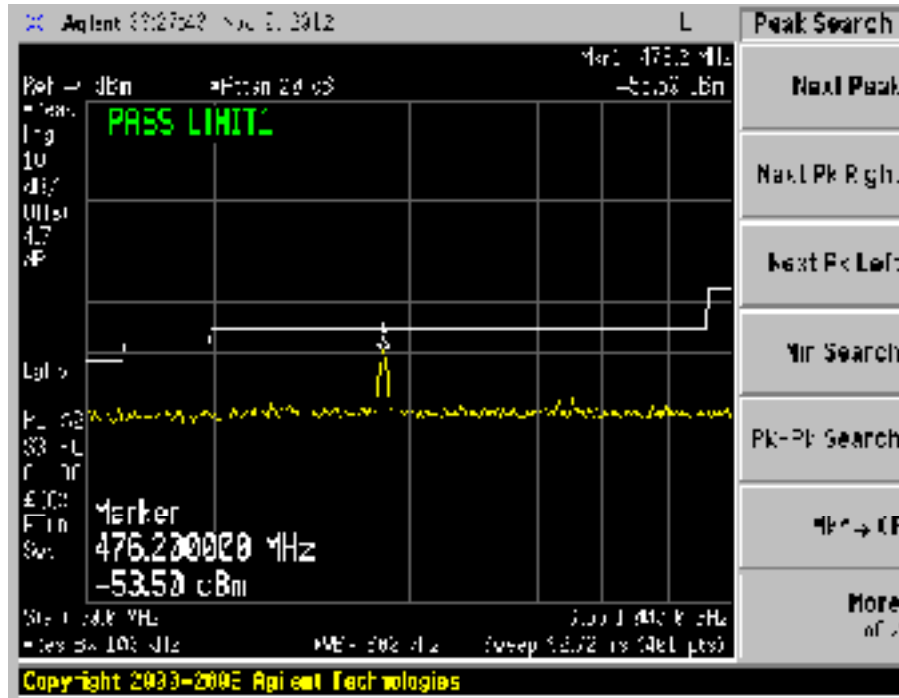


Plot 237 – Channel 6 (middle ch) @ QPSK 18Mbps

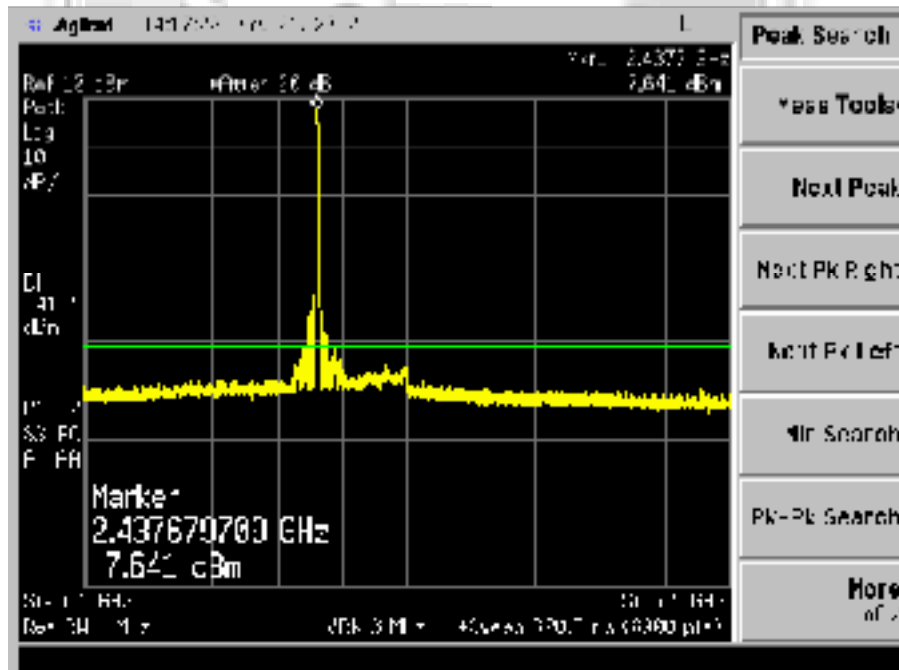


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 238 – Channel 6 (middle ch) @ QPSK 18Mbps

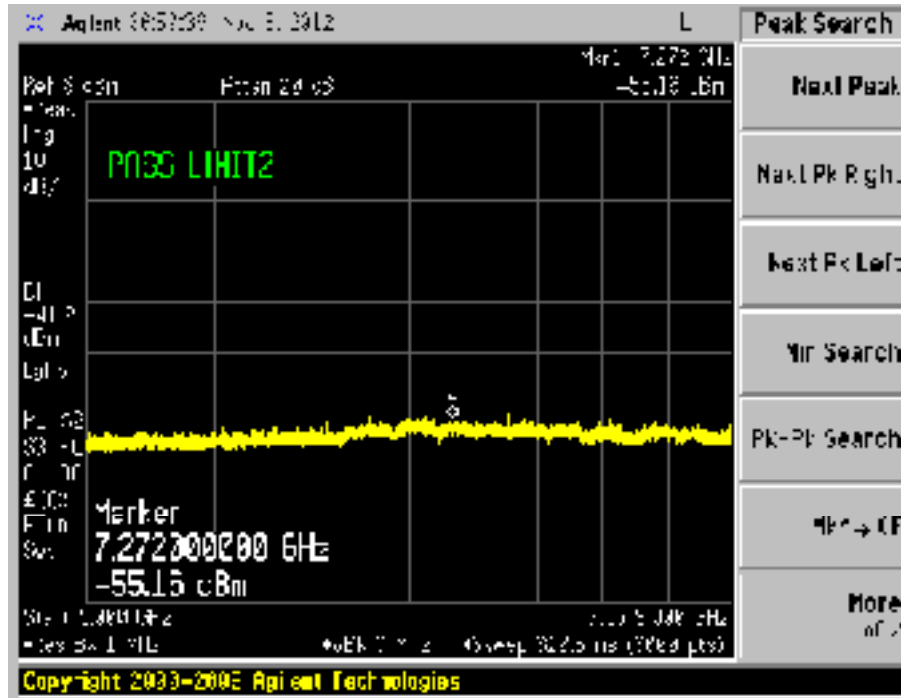


Plot 239 – Channel 6 (middle ch) @ QPSK 18Mbps

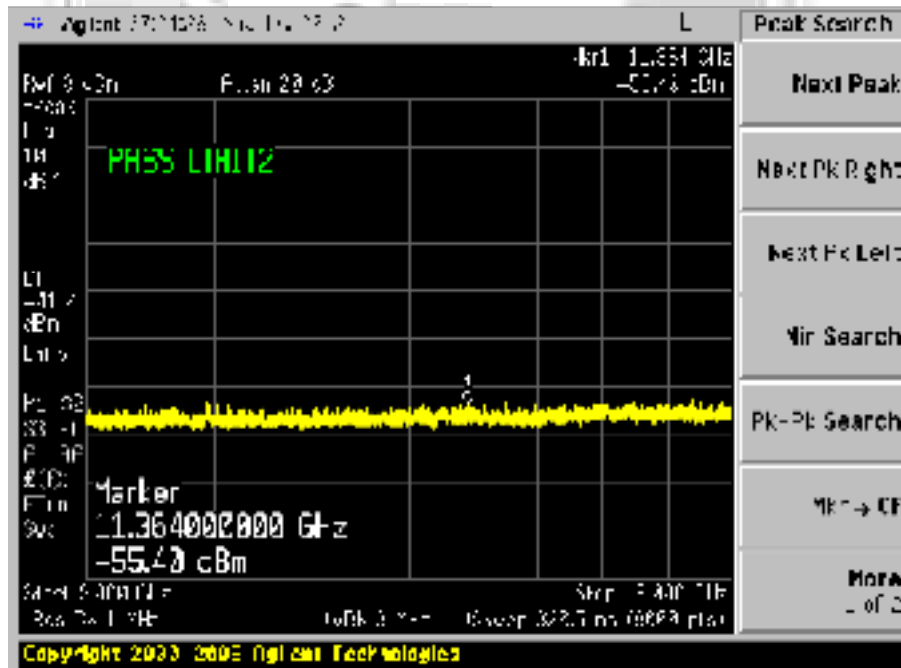


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 240 – Channel 6 (middle ch) @ QPSK 18Mbps

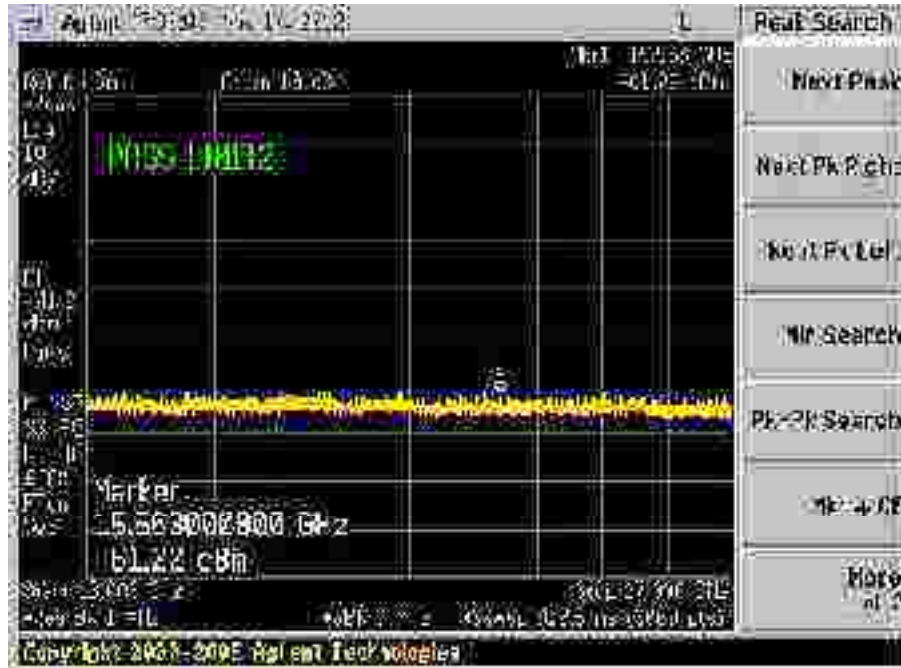


Plot 241 – Channel 6 (middle ch) @ QPSK 18Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 242 – Channel 6 (middle ch) @ QPSK 18Mbps

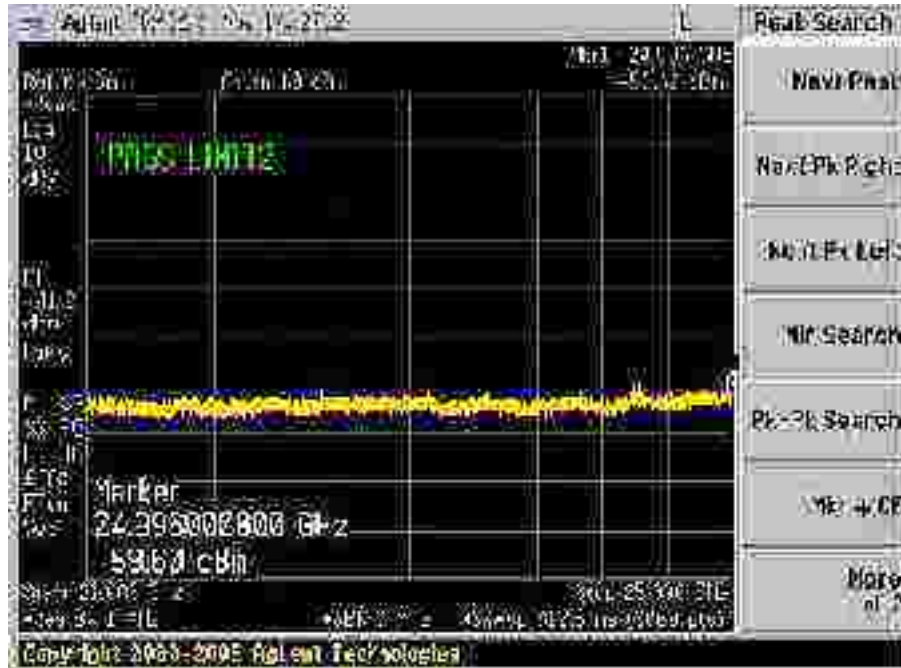


Plot 243 – Channel 6 (middle ch) @ QPSK 18Mbps

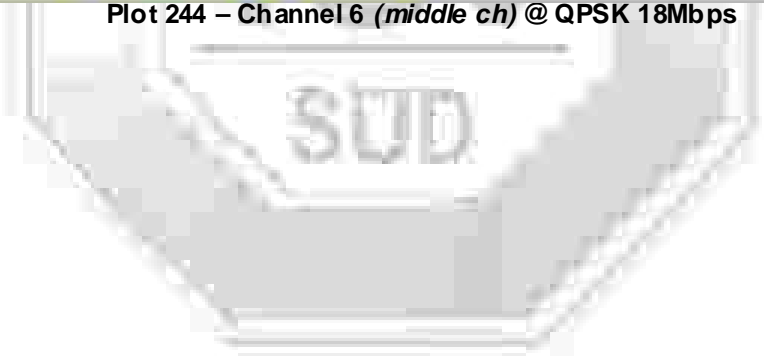


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 244 – Channel 6 (*middle ch*) @ QPSK 18Mbps



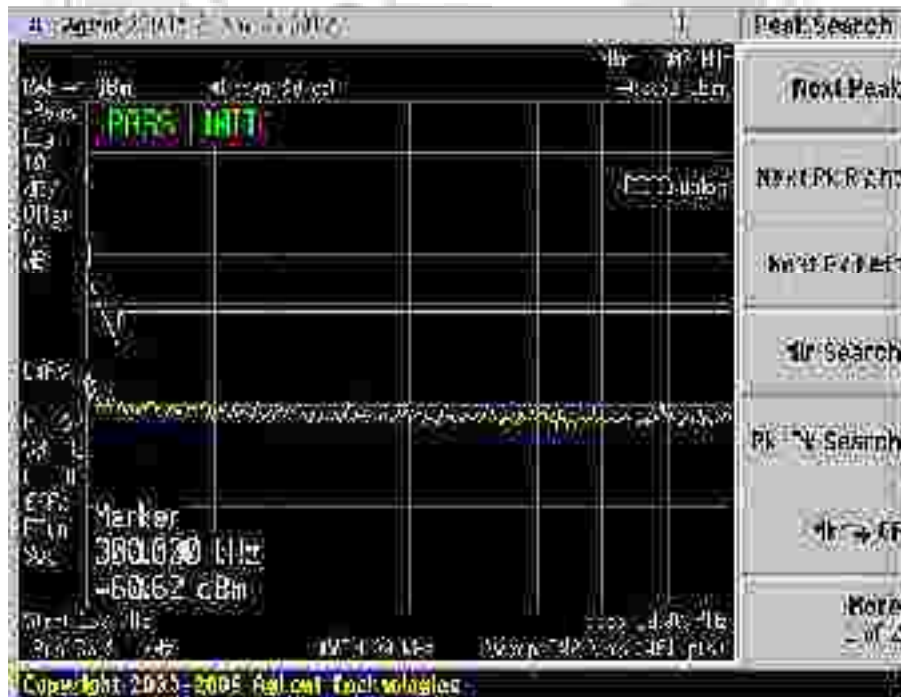


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 245 – Channel 6 (middle ch) @ 16QAM 36Mbps

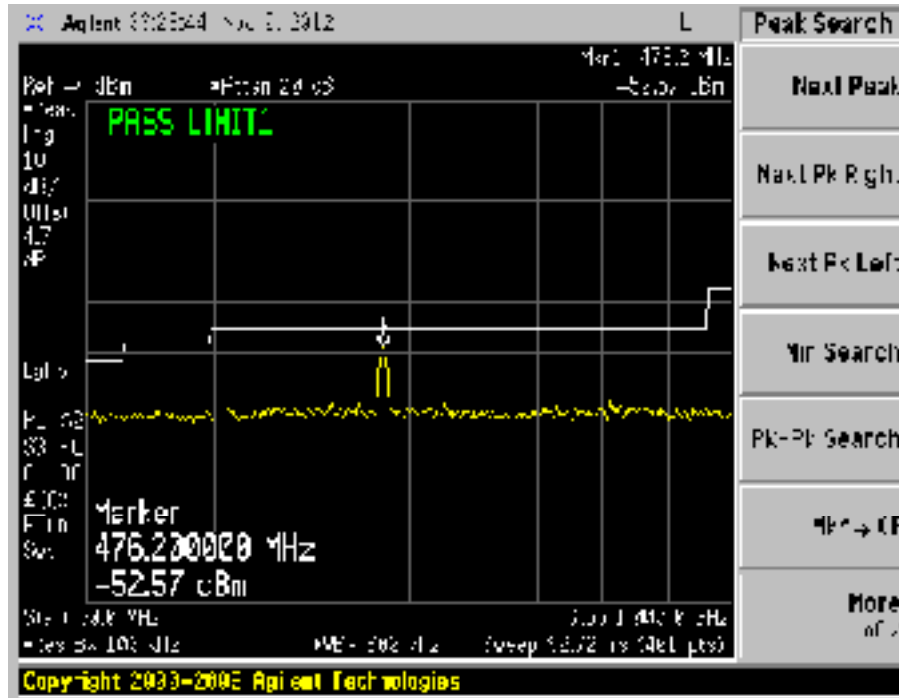


Plot 246 – Channel 6 (middle ch) @ 16QAM 36Mbps

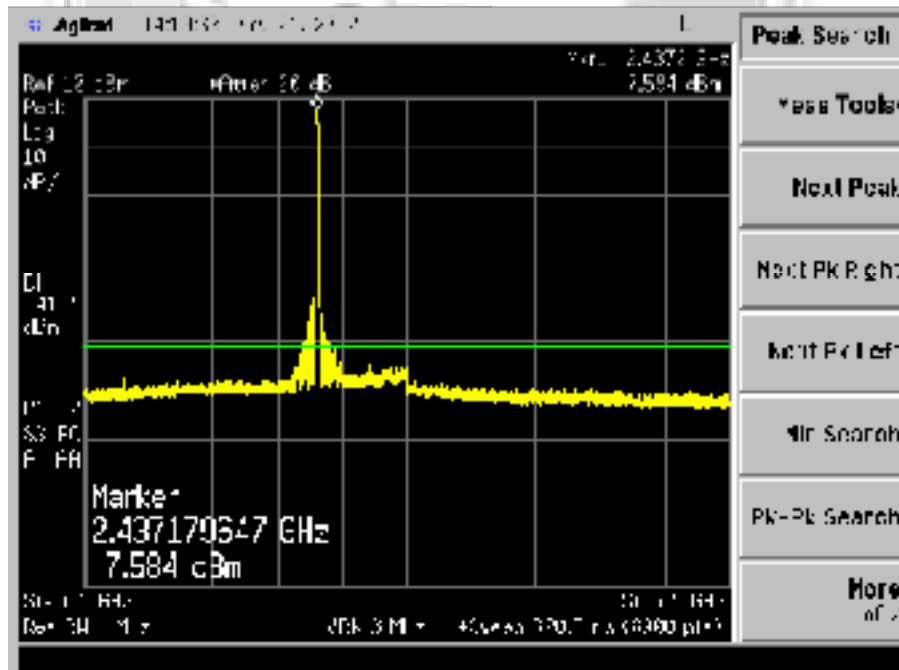


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 247 – Channel 6 (middle ch) @ 16QAM 36Mbps

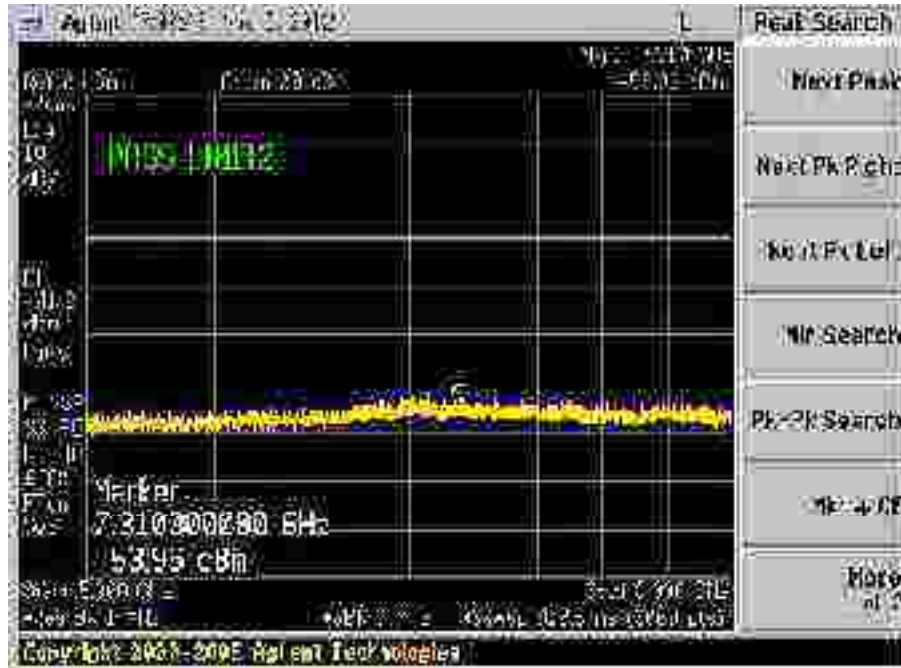


Plot 248 – Channel 6 (middle ch) @ 16QAM 36Mbps

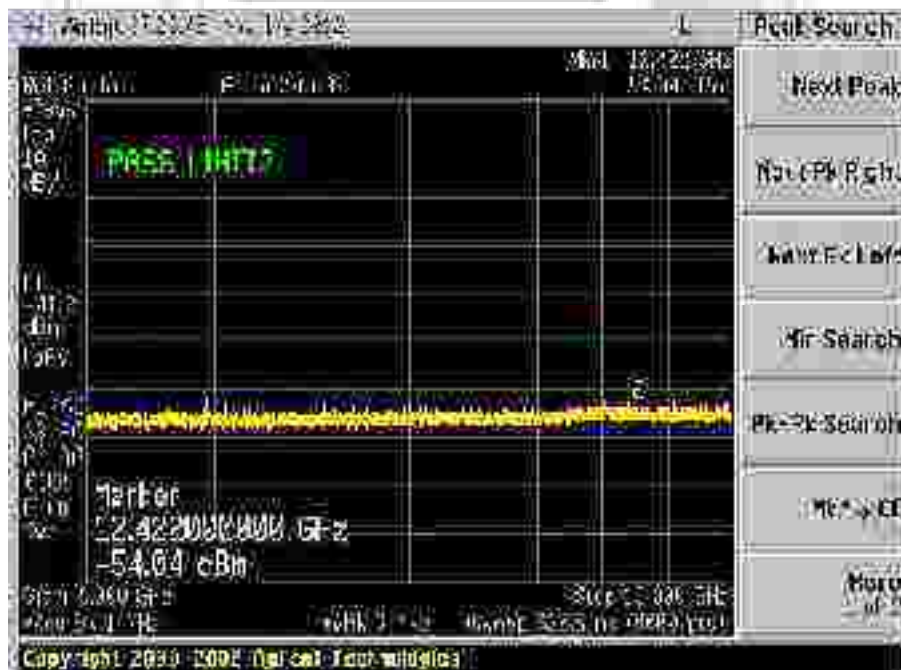


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 249 – Channel 6 (*middle ch*) @ 16QAM 36Mbps

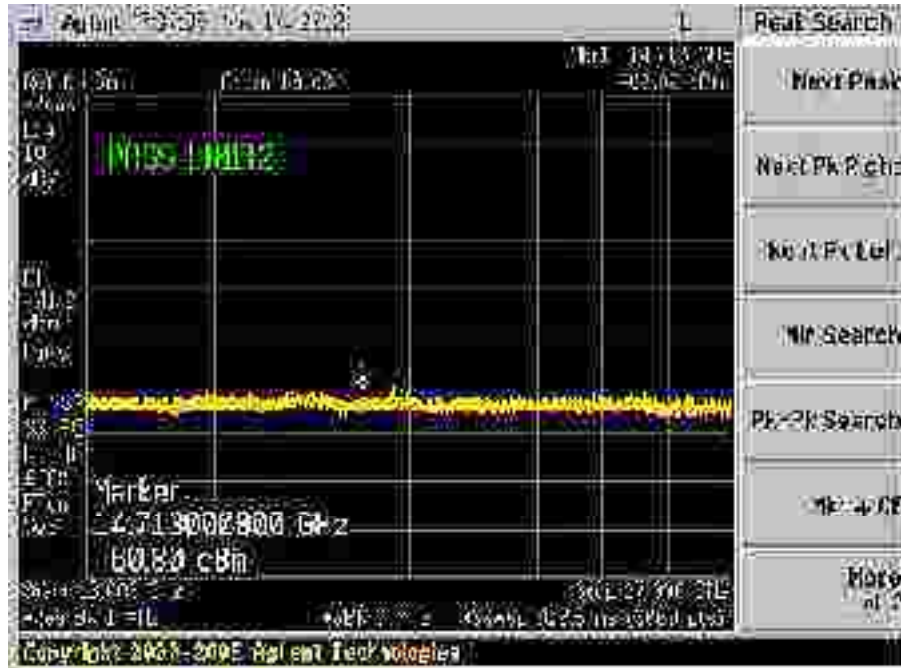


Plot 250 – Channel 6 (*middle ch*) @ 16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 251 – Channel 6 (middle ch) @ 16QAM 36Mbps

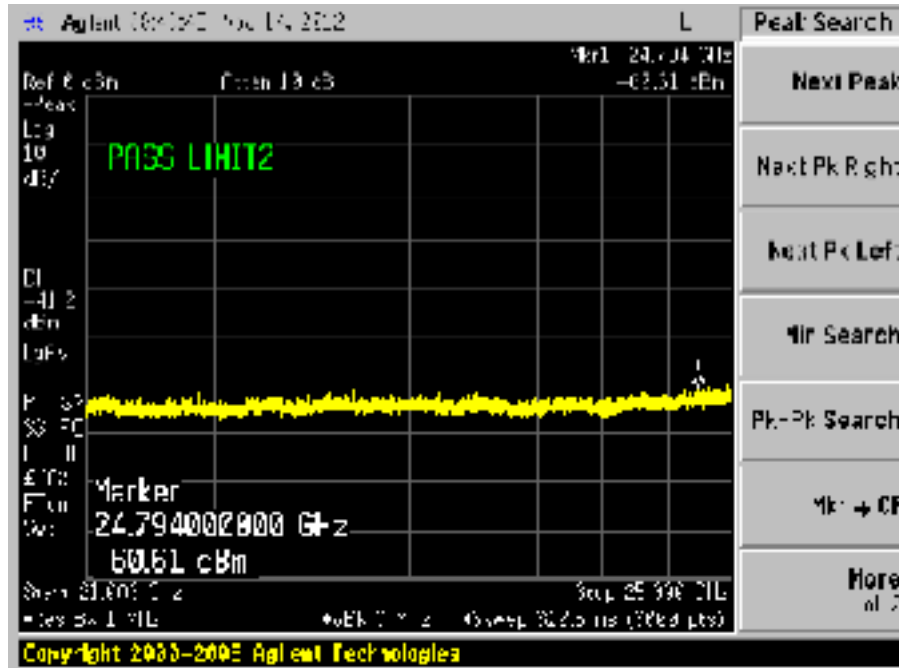


Plot 252 – Channel 6 (middle ch) @ 16QAM 36Mbps

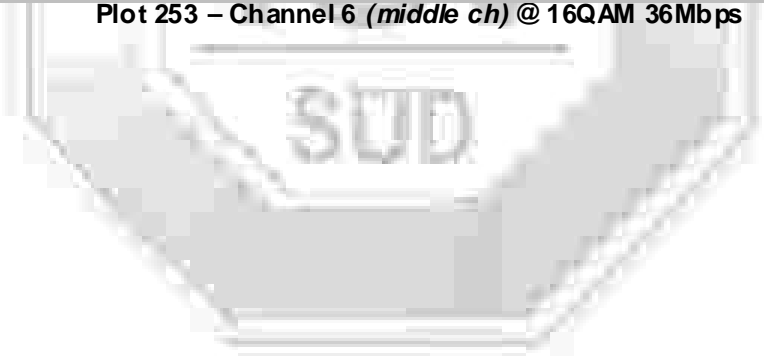


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 253 – Channel 6 (middle ch) @ 16QAM 36Mbps



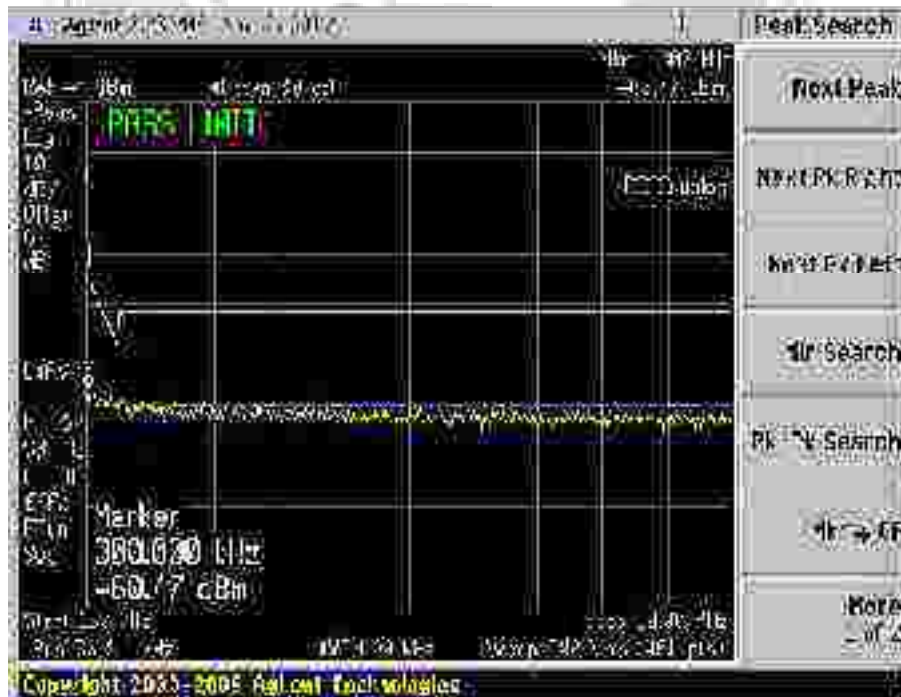


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 254 – Channel 6 (middle ch) @ 64QAM 54Mbps

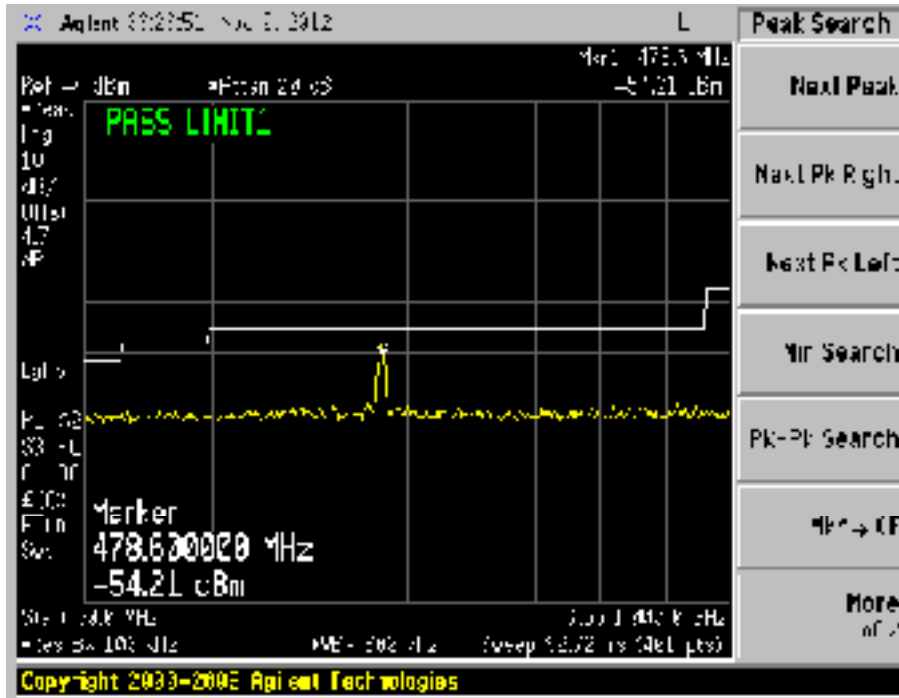


Plot 255 – Channel 6 (middle ch) @ 64QAM 54Mbps

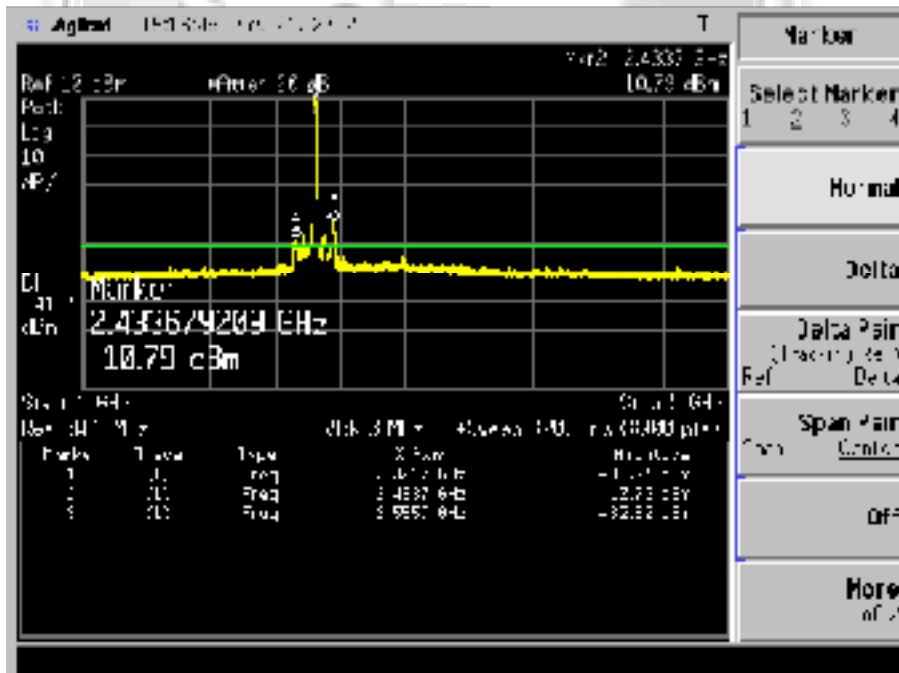


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 256 – Channel 6 (middle ch) @ 64QAM 54Mbps

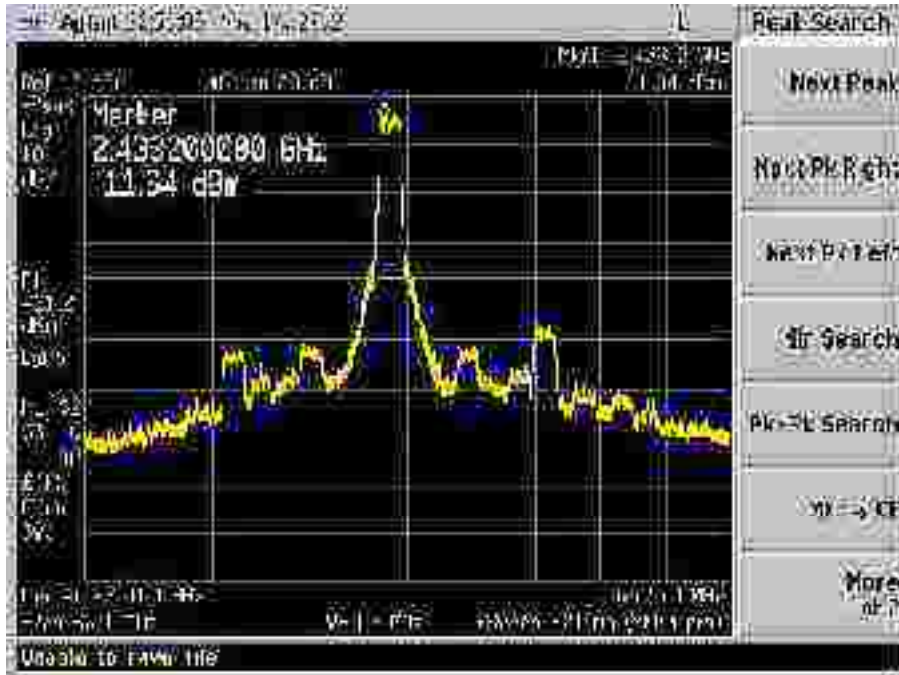


Plot 257 – Channel 6 (middle ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 258 – Channel 6 (middle ch) @ 64QAM 54Mbps

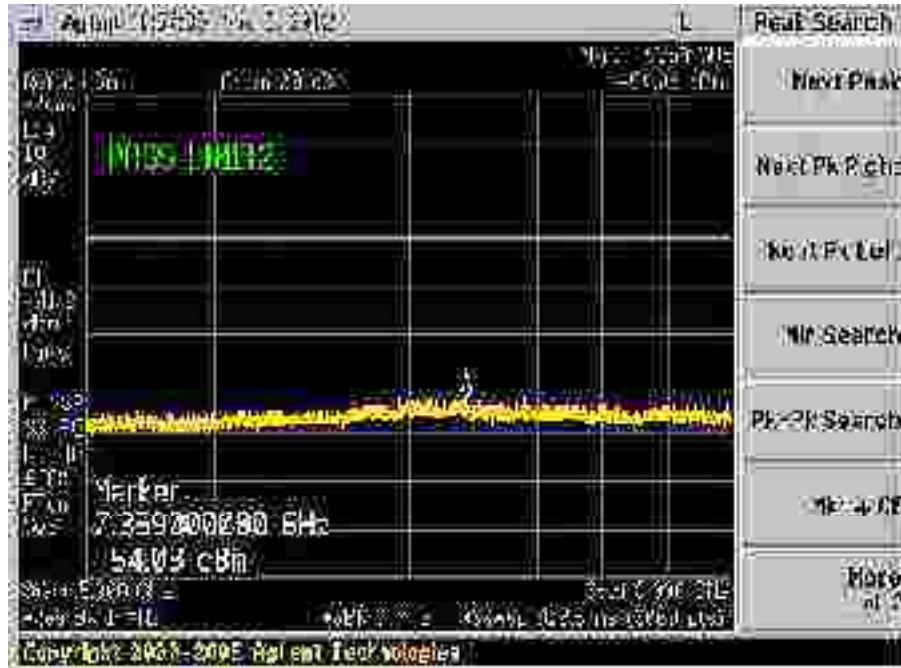


Plot 259 – Channel 6 (middle ch) @ 64QAM 54Mbps

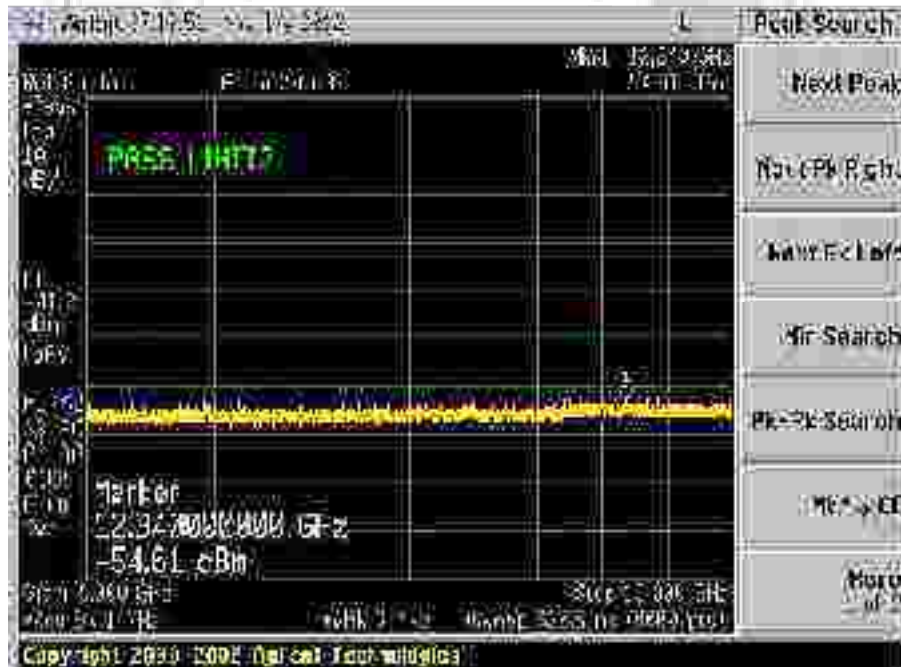


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 260 – Channel 6 (*middle ch*) @ 64QAM 54Mbps

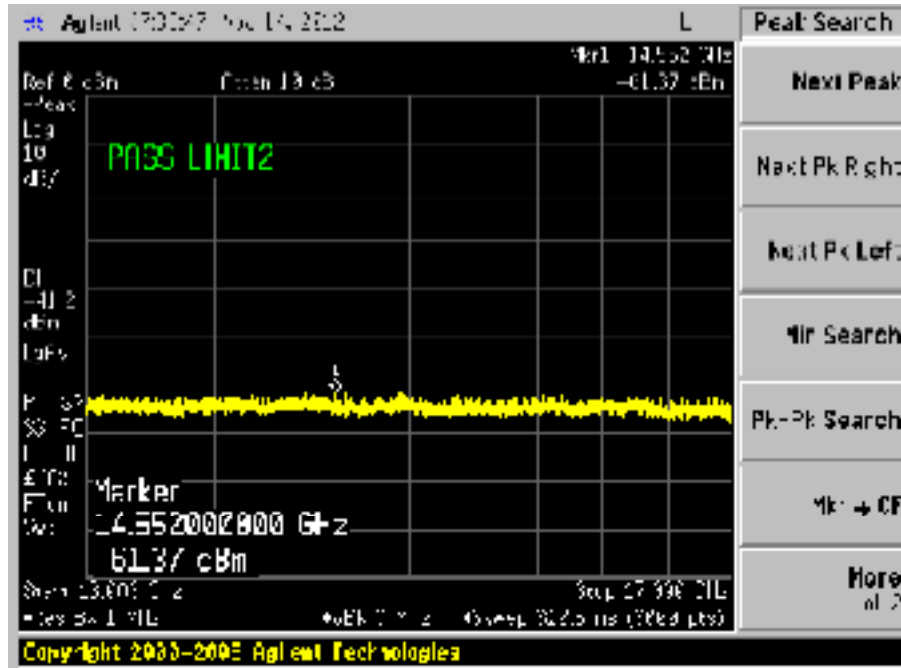


Plot 261 – Channel 6 (*middle ch*) @ 64QAM 54Mbps

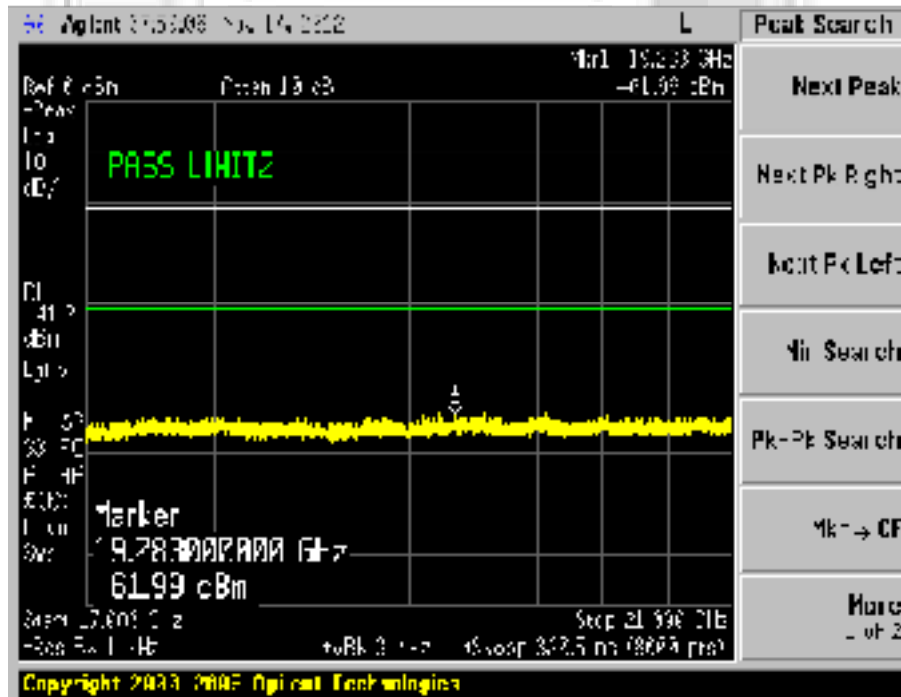


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 262 – Channel 6 (middle ch) @ 64QAM 54Mbps

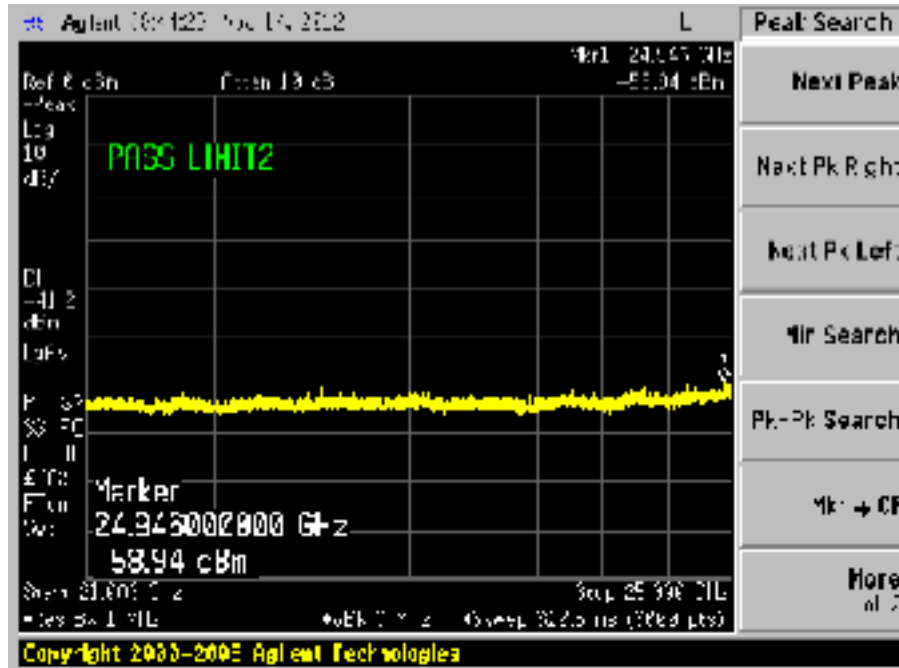


Plot 263 – Channel 6 (middle ch) @ 64QAM 54Mbps

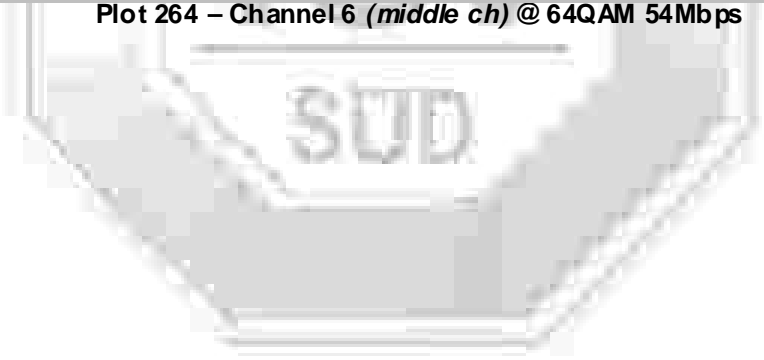


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



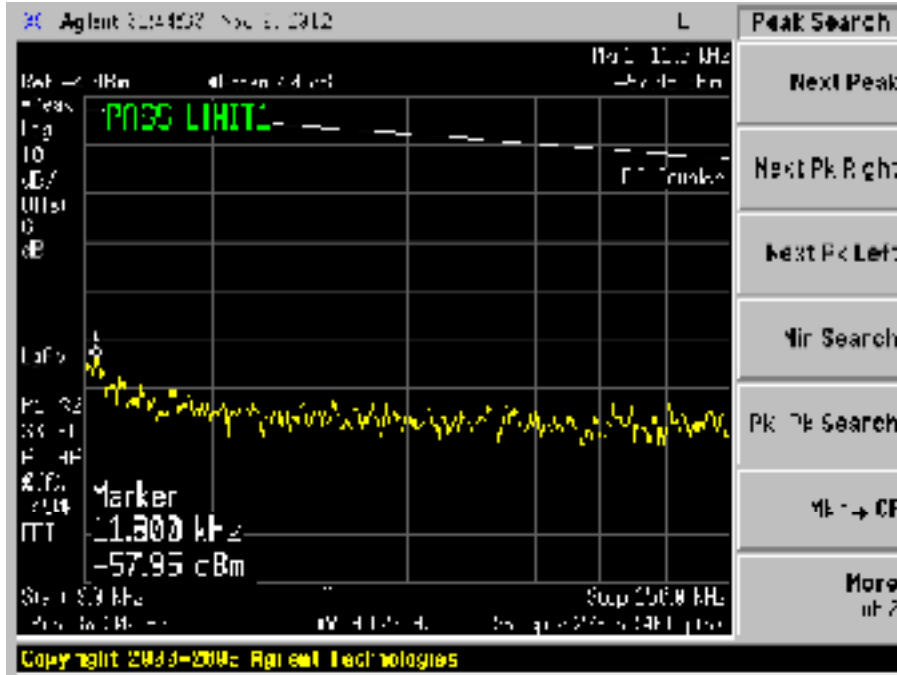
Plot 264 – Channel 6 (middle ch) @ 64QAM 54Mbps



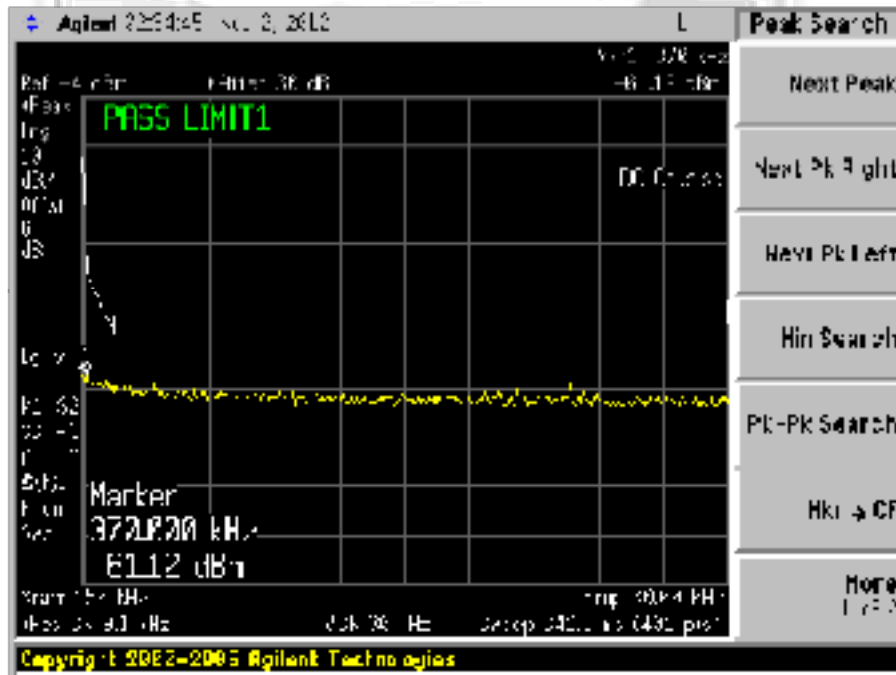


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 265 – Channel 11 (upper ch) @ DBPSK 1Mbps

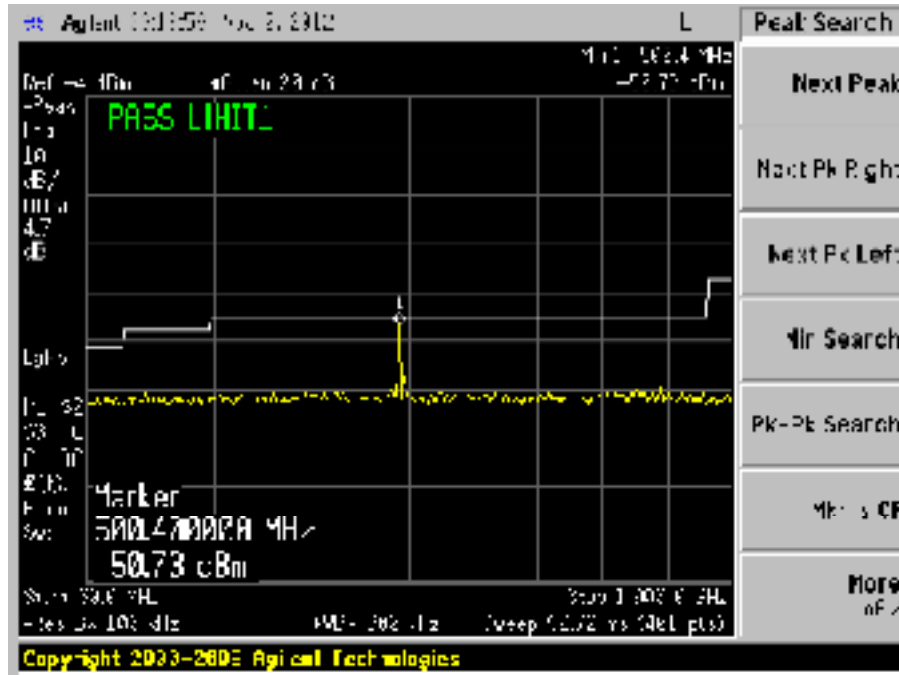


Plot 266 – Channel 11 (upper ch) @ DBPSK 1Mbps

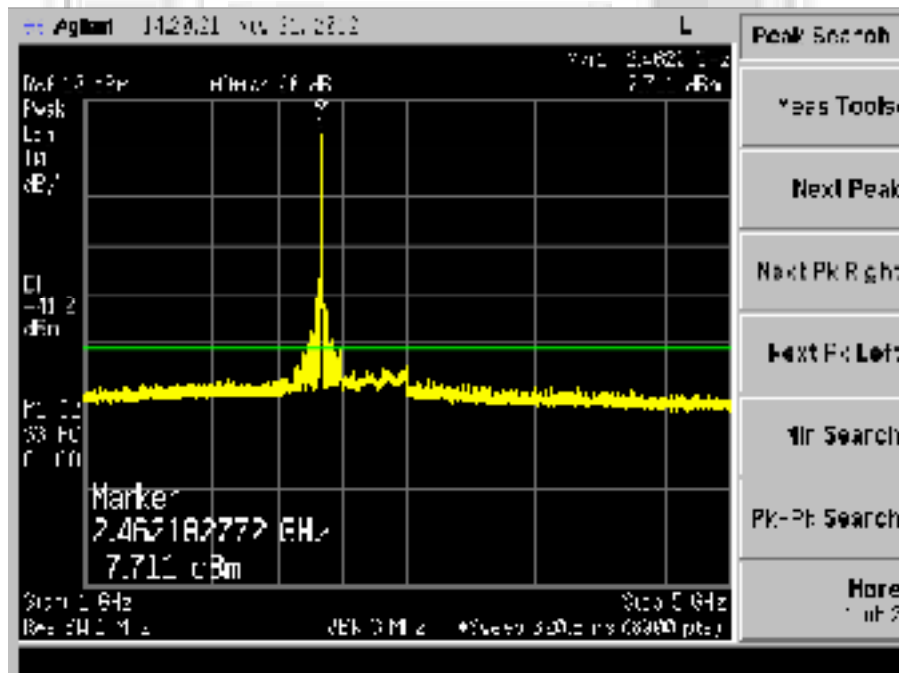


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 267 – Channel 11 (upper ch) @ DBPSK 1Mbps

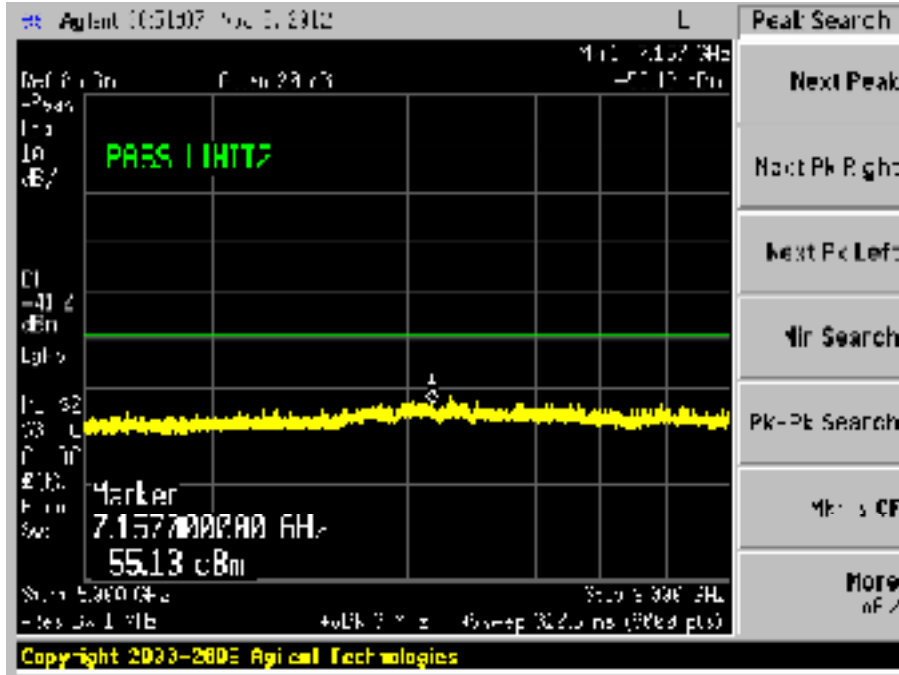


Plot 268 – Channel 11 (upper ch) @ DBPSK 1Mbps

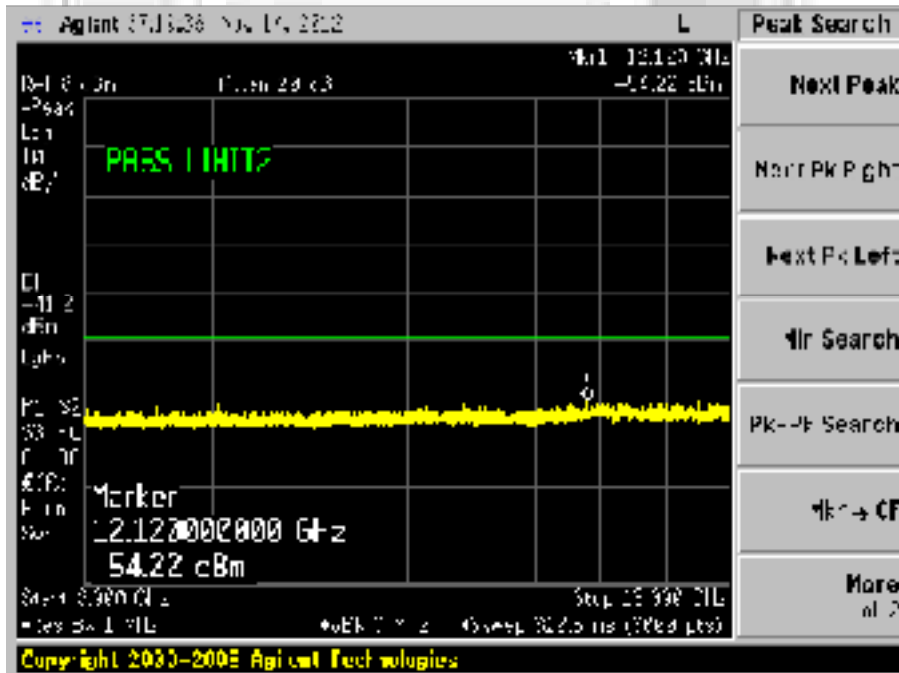


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 269 – Channel 11 (upper ch) @ DBPSK 1Mbps

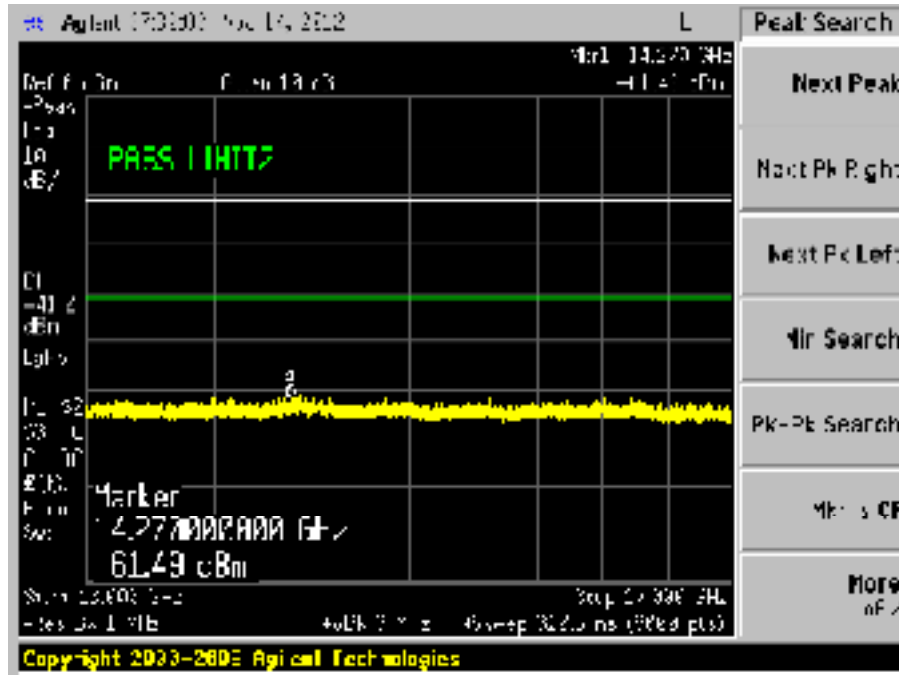


Plot 270 – Channel 11 (upper ch) @ DBPSK 1Mbps

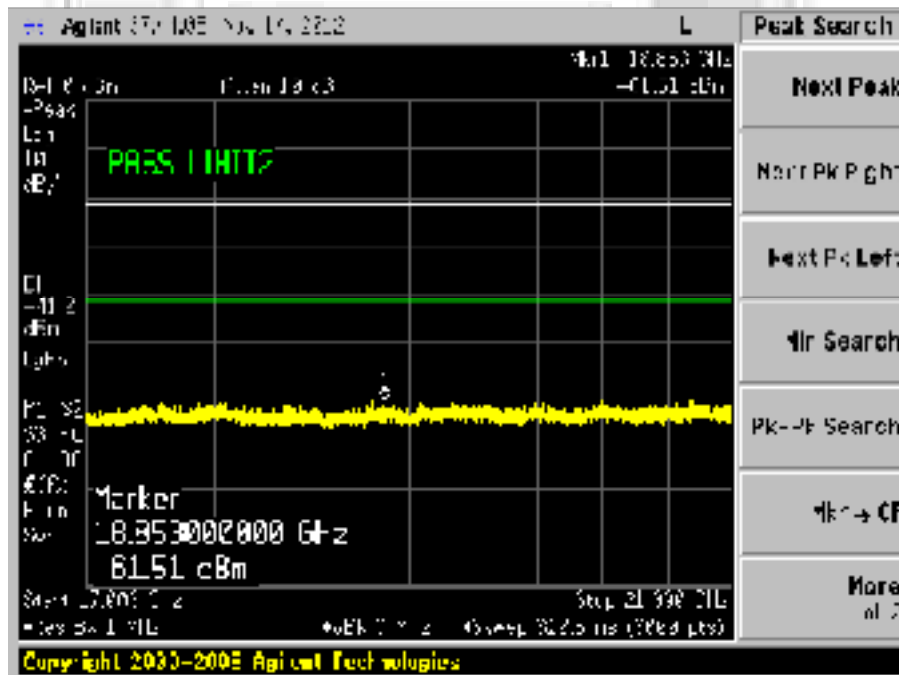


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 271 – Channel 11 (upper ch) @ DBPSK 1Mbps

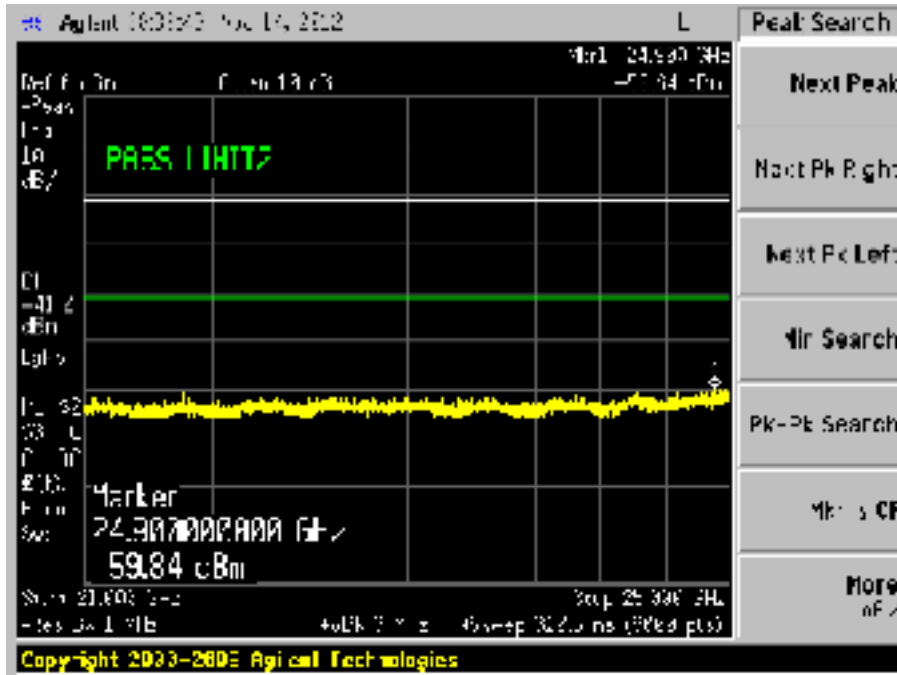


Plot 272 – Channel 11 (upper ch) @ DBPSK 1Mbps

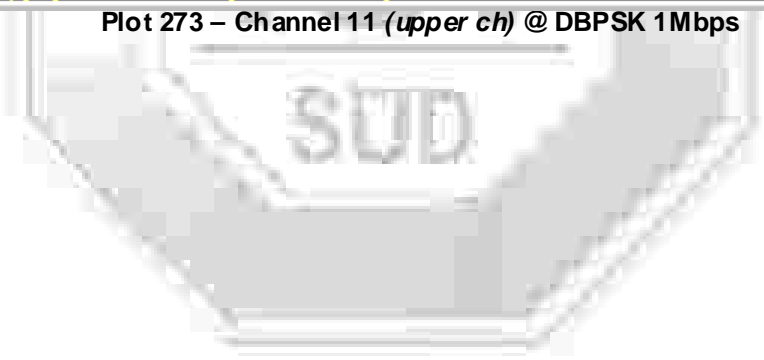


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



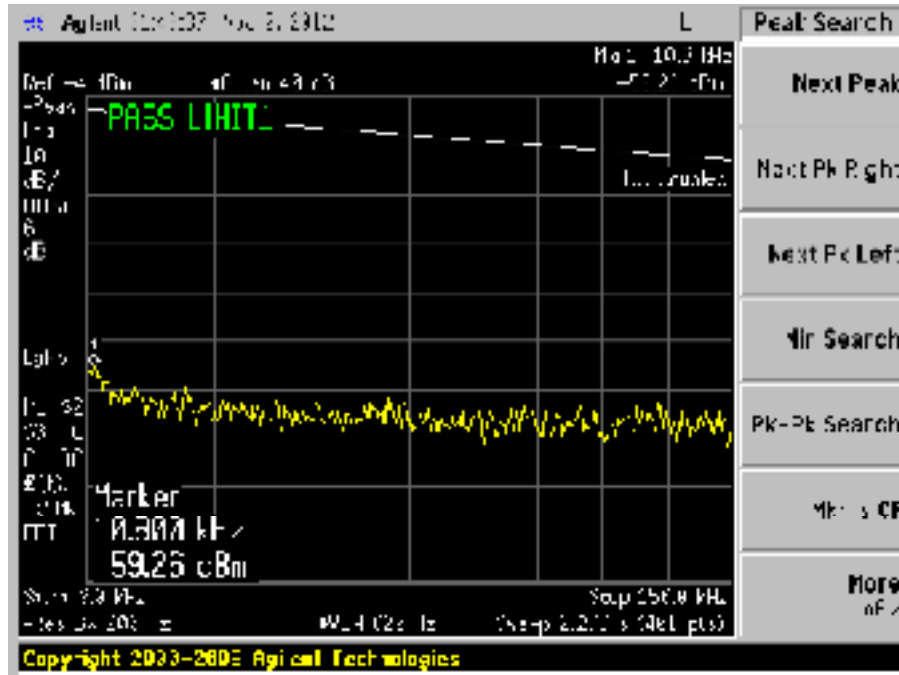
Plot 273 – Channel 11 (upper ch) @ DBPSK 1Mbps



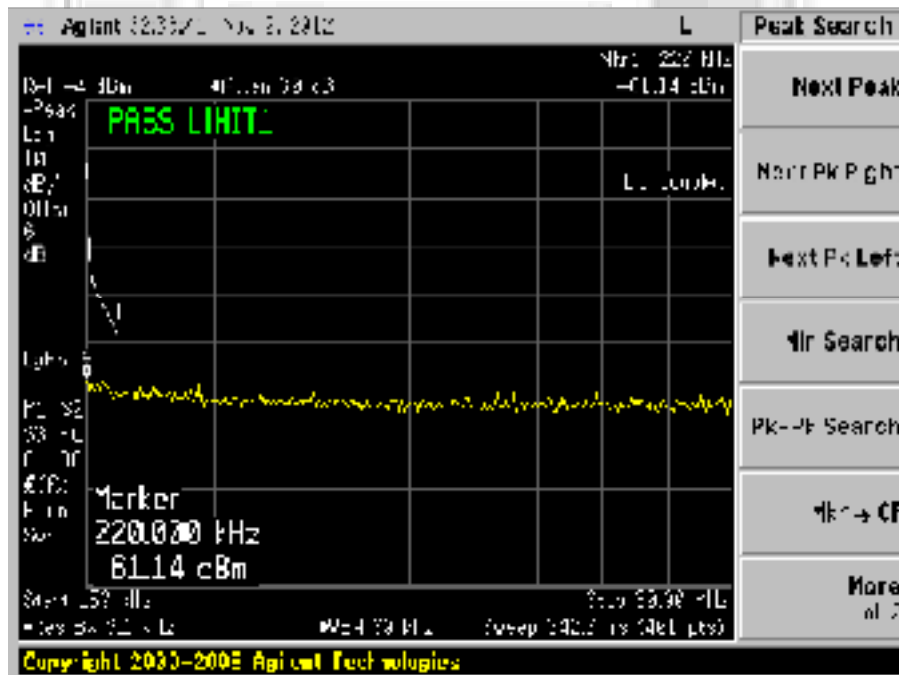


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 274 – Channel 11 (upper ch) @ DQPSK 2Mbps

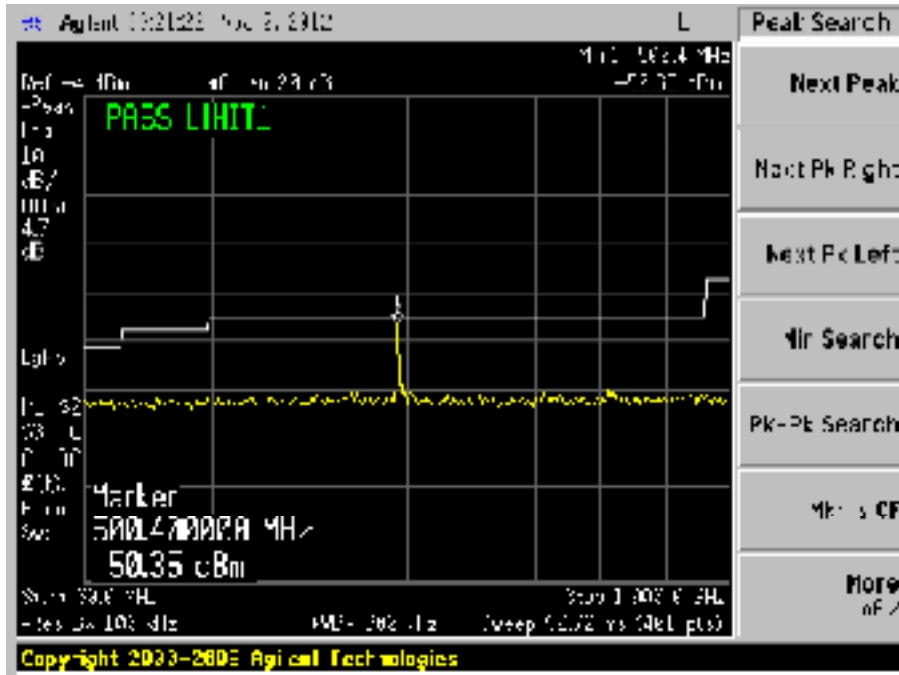


Plot 275 – Channel 11 (upper ch) @ DQPSK 2Mbps

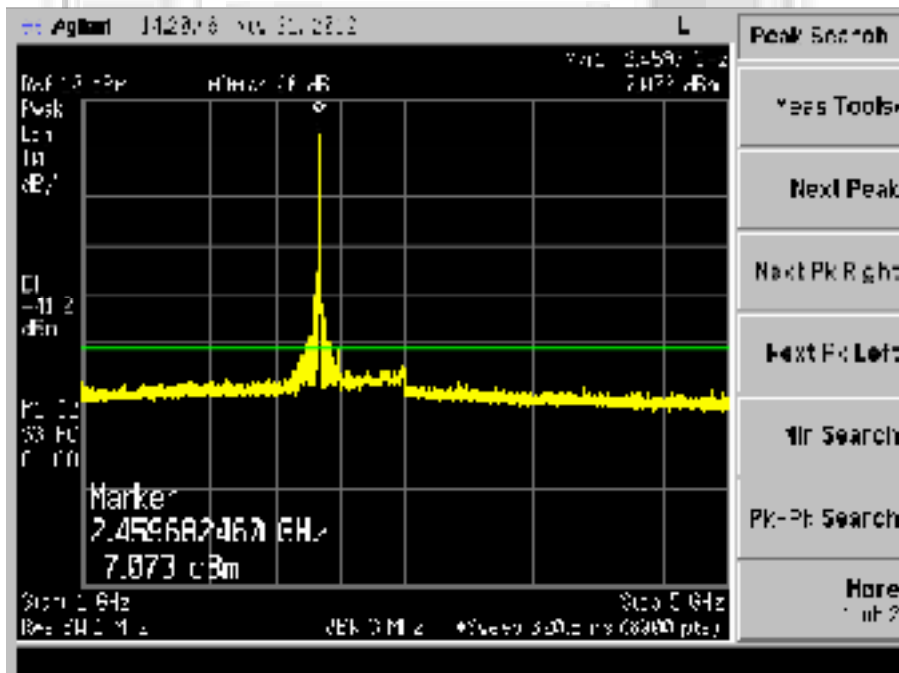


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 276 – Channel 11 (upper ch) @ DQPSK 2Mbps

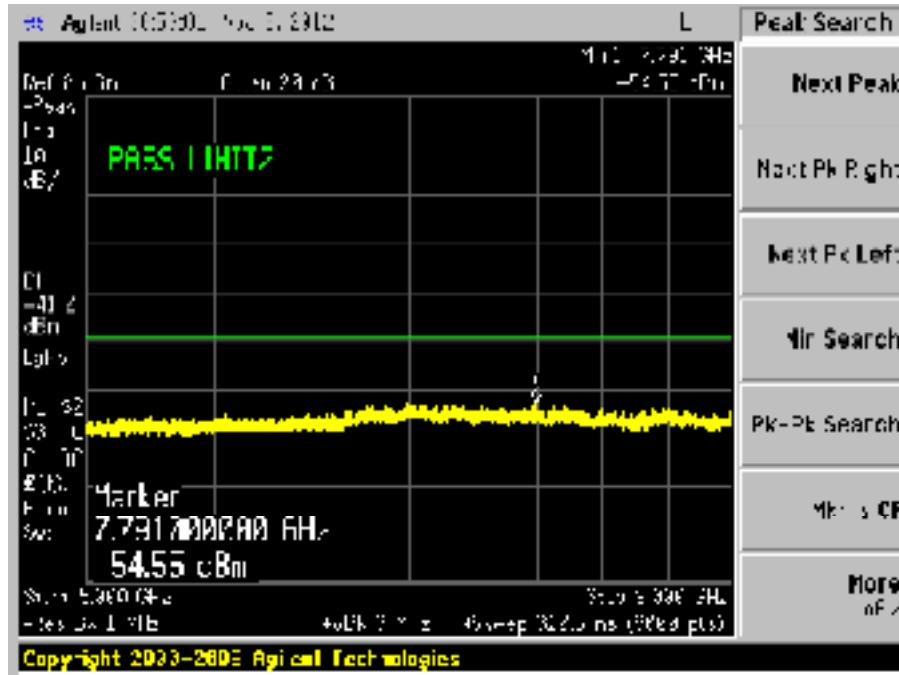


Plot 277 – Channel 11 (upper ch) @ DQPSK 2Mbps

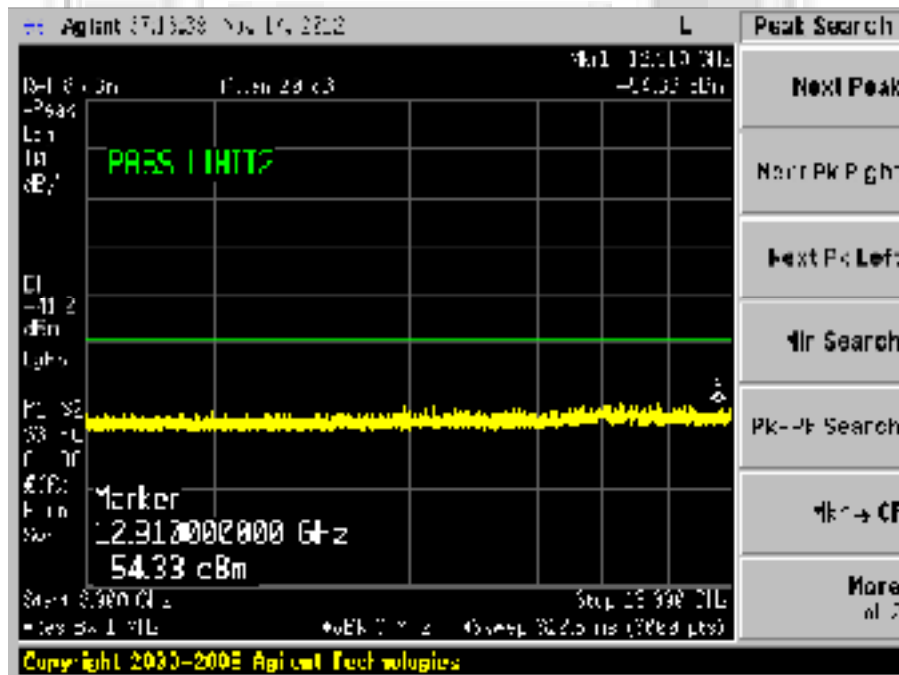


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 278 – Channel 11 (upper ch) @ DQPSK 2Mbps

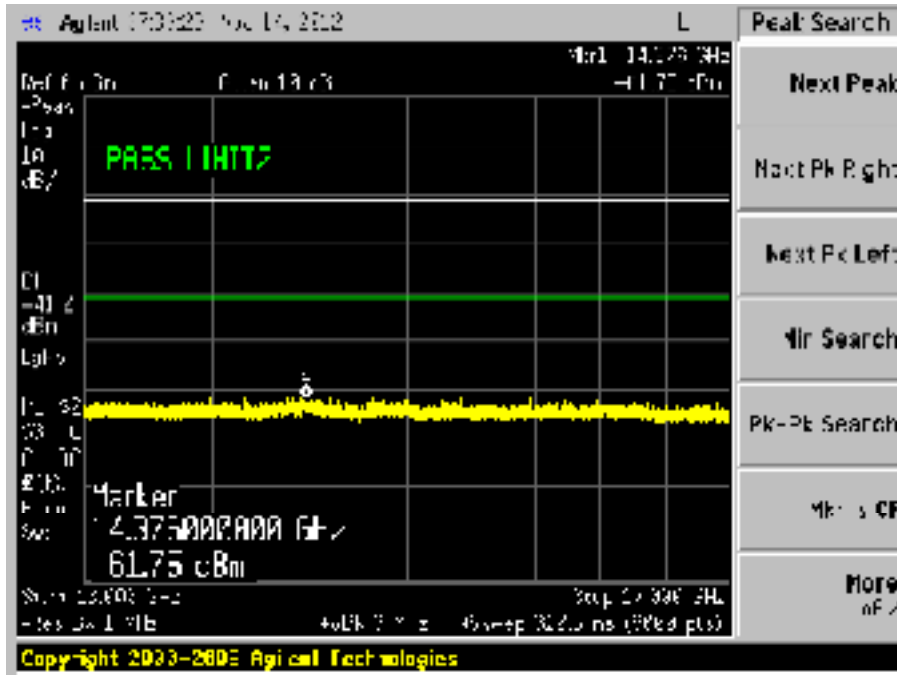


Plot 279 – Channel 11 (upper ch) @ DQPSK 2Mbps

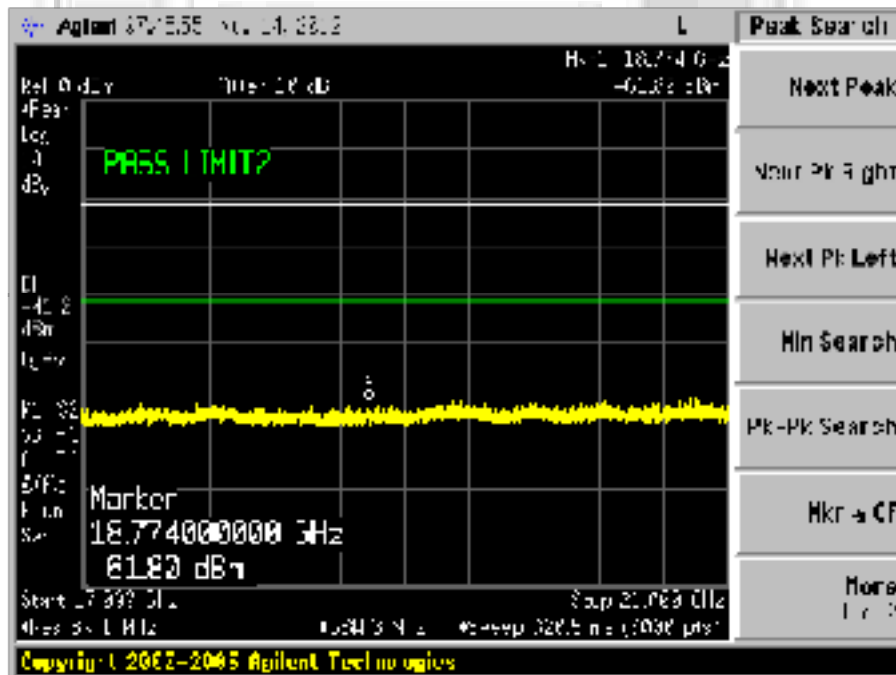


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 280 – Channel 11 (upper ch) @ CCK 2Mbps

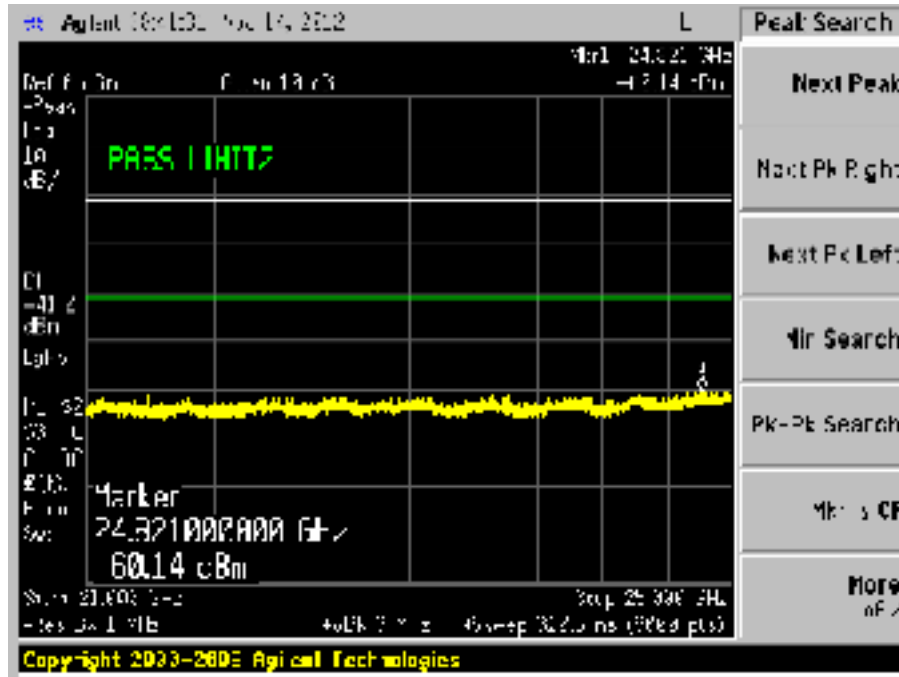


Plot 281 – Channel 11 (upper ch) @ CCK 2Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



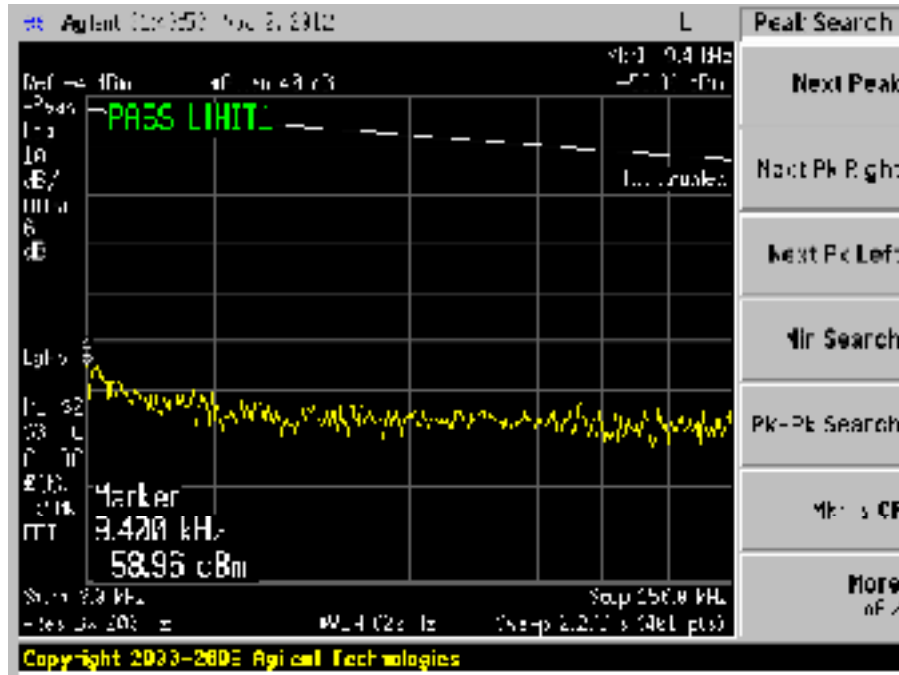
Plot 282 – Channel 11 (upper ch) @ CCK 2Mbps



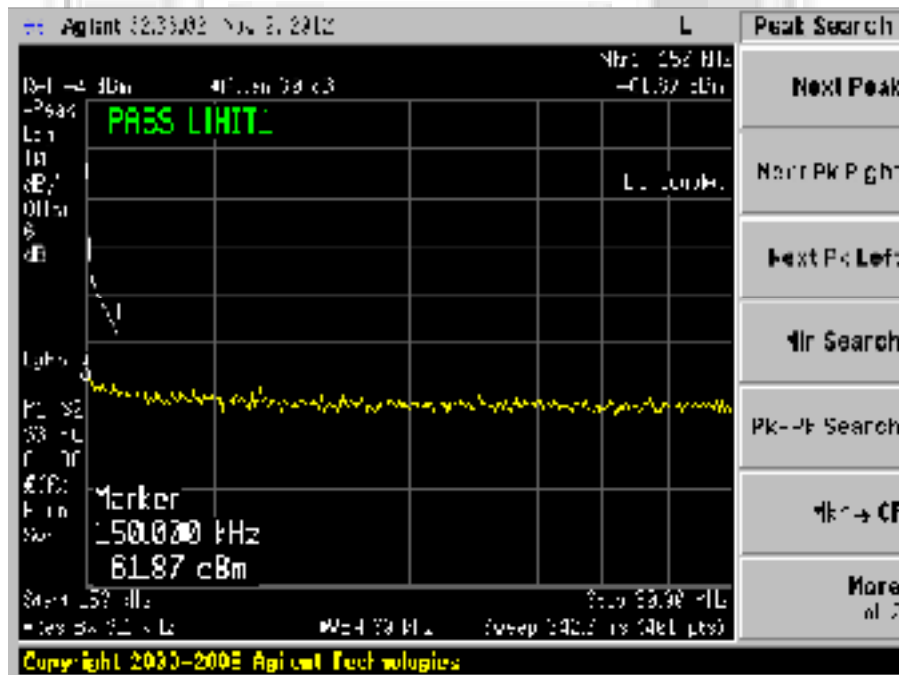


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 283 – Channel 11 (upper ch) @ CCK 11Mbps

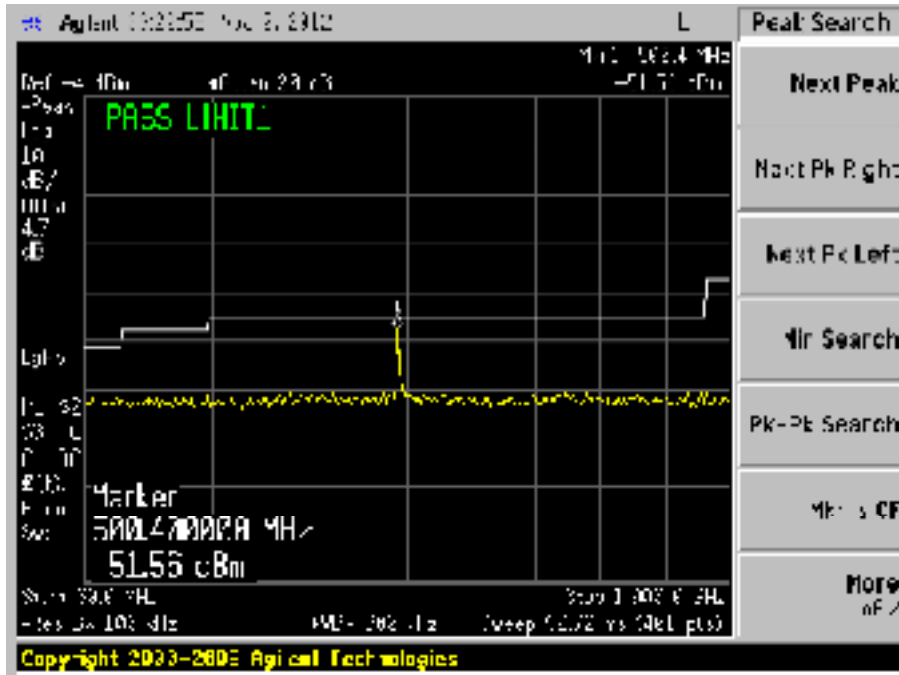


Plot 284 – Channel 11 (upper ch) @ CCK 11Mbps

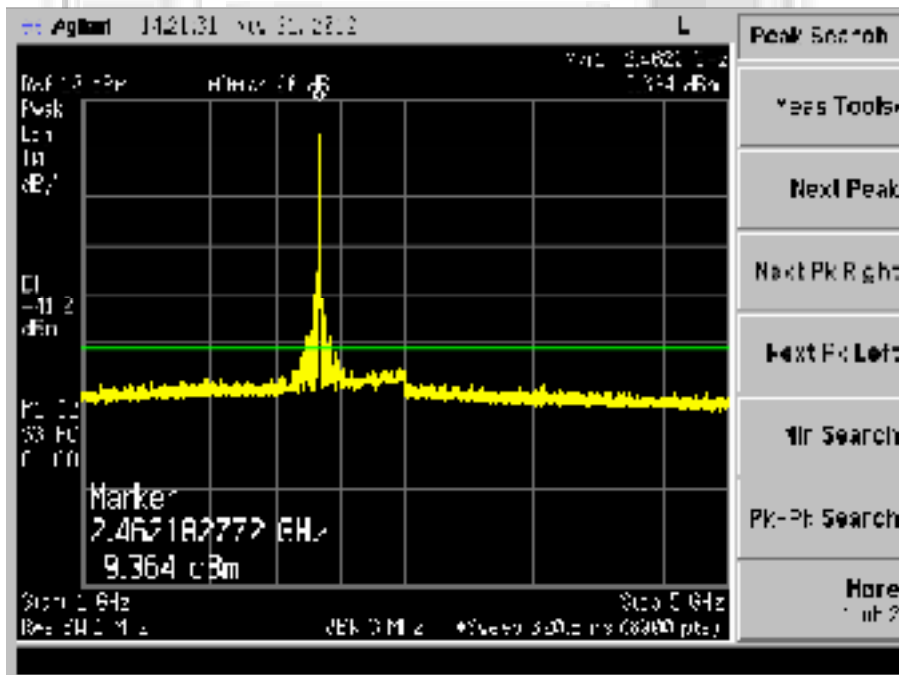


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 285 – Channel 11 (upper ch) @ CCK 11Mbps

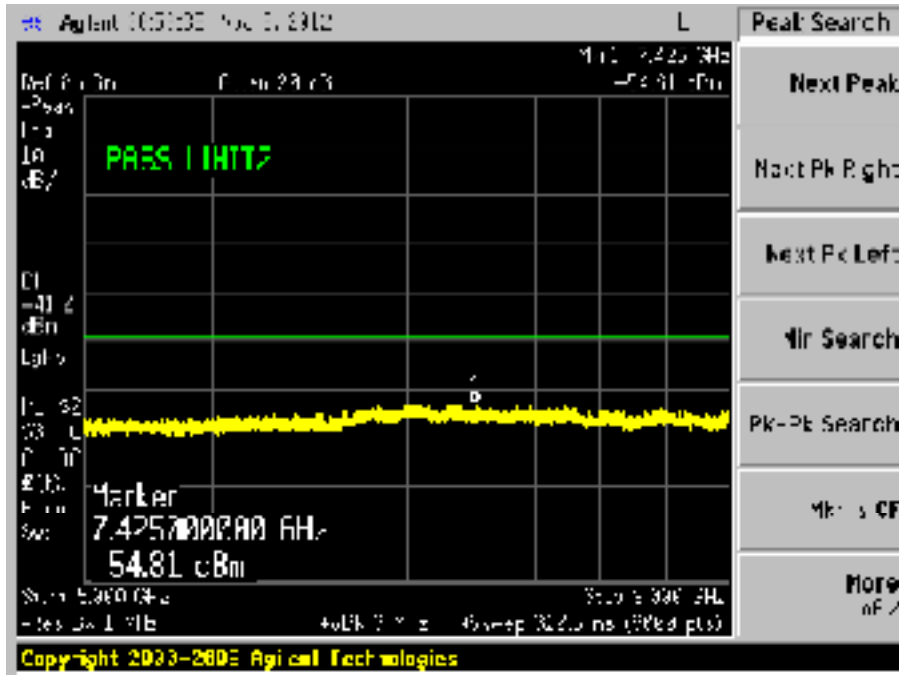


Plot 286 – Channel 11 (upper ch) @ CCK 11Mbps

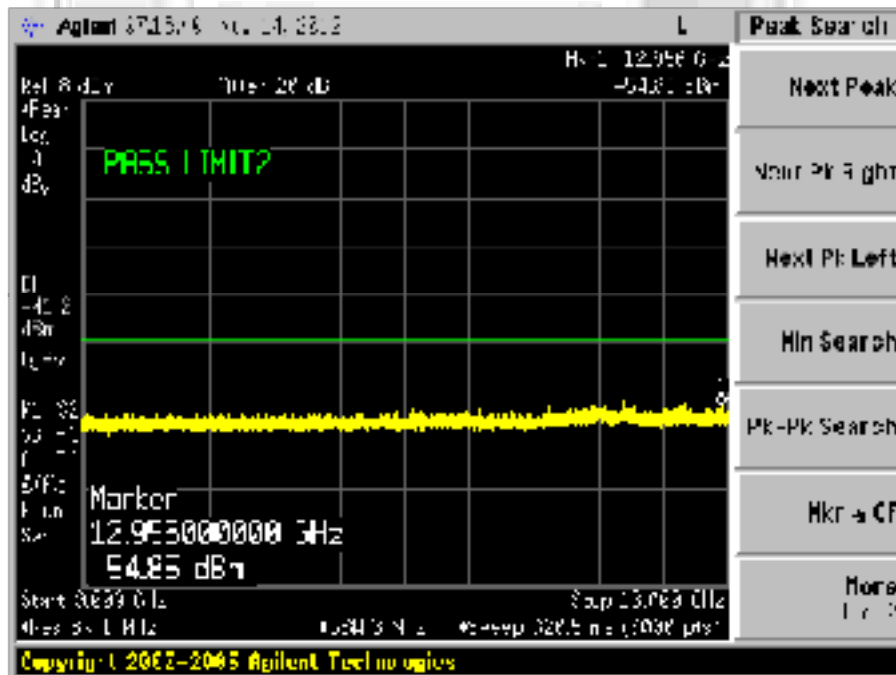


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 287 – Channel 11 (upper ch) @ CCK 11Mbps

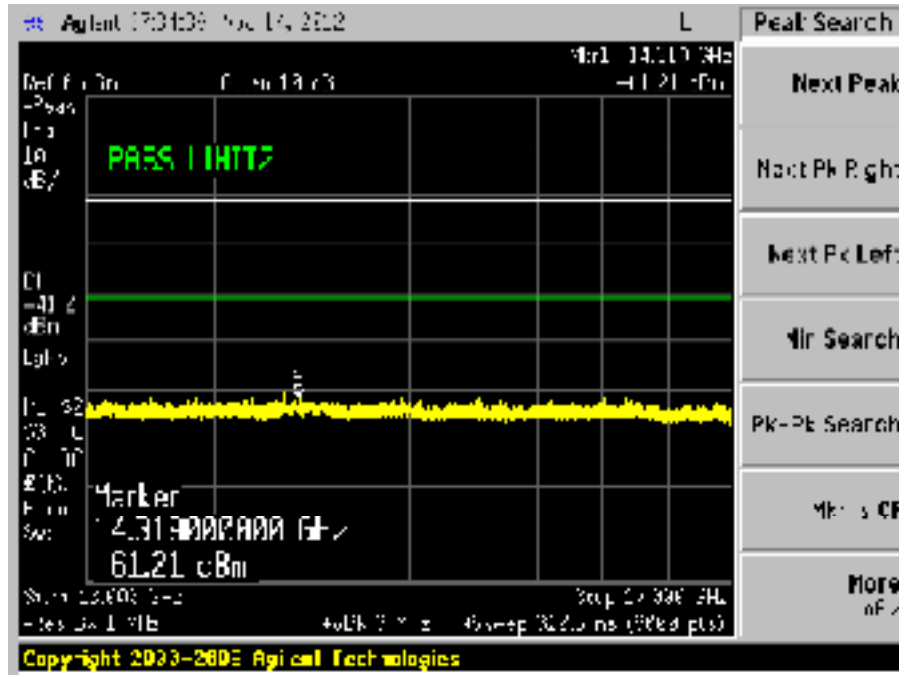


Plot 288 – Channel 11 (upper ch) @ CCK 11Mbps

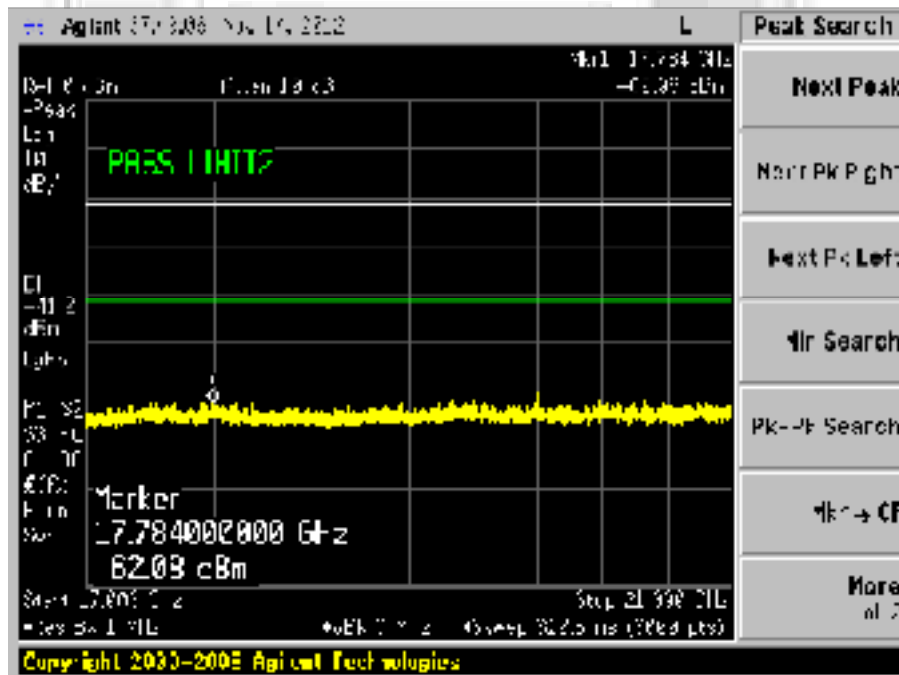


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 289 – Channel 11 (upper ch) @ CCK 11Mbps

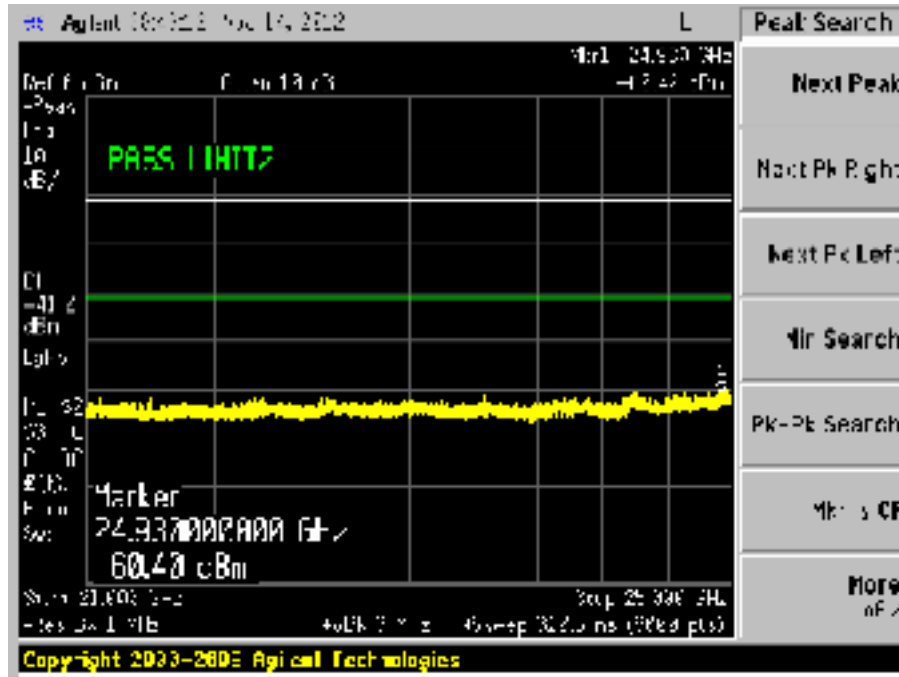


Plot 290 – Channel 11 (upper ch) @ CCK 11Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



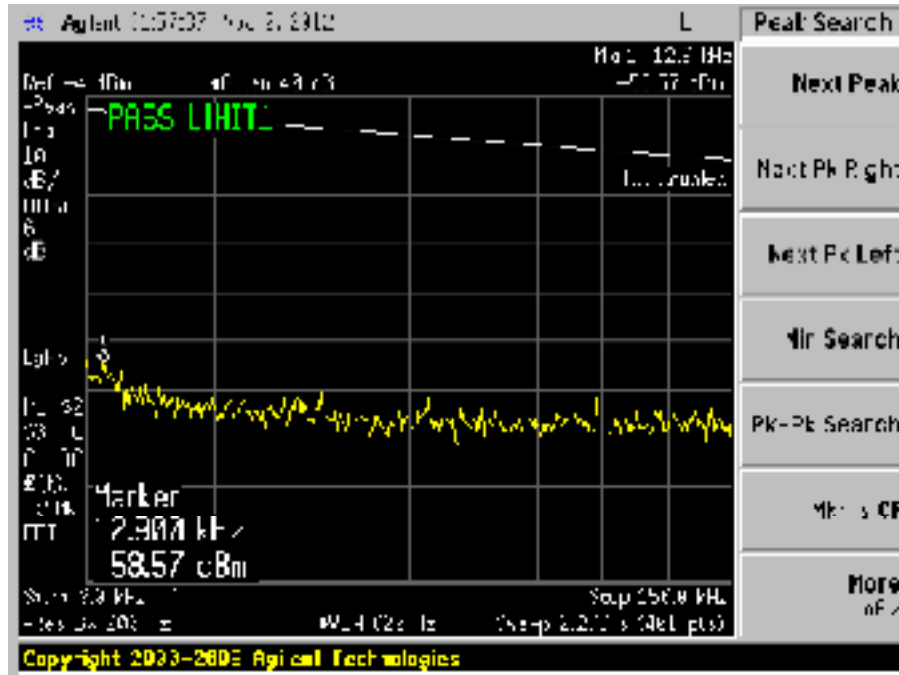
Plot 291 – Channel 11 (upper ch) @ CCK 11Mbps



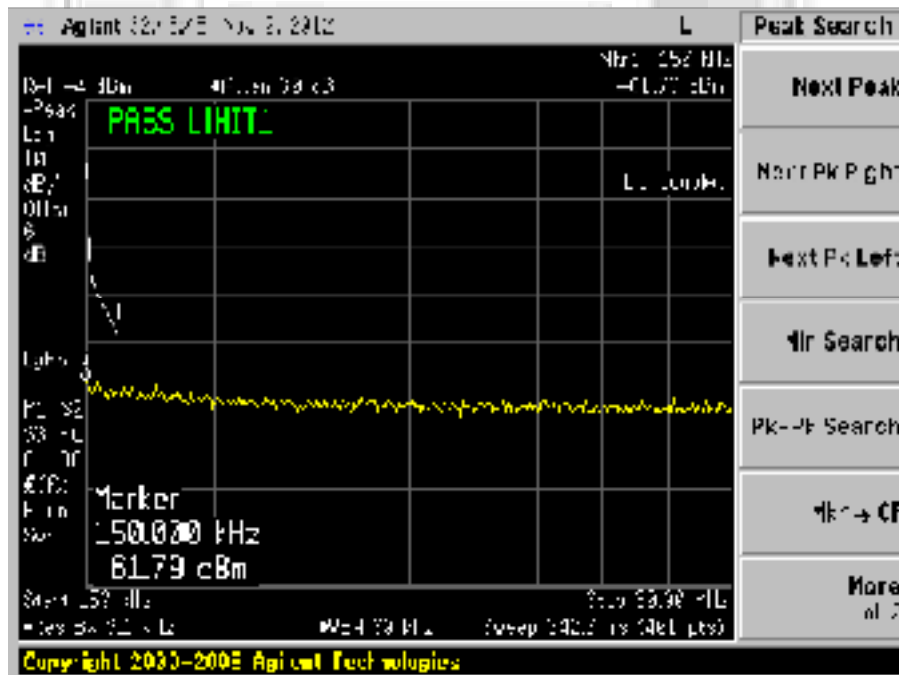


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 292 – Channel 11 (upper ch) @ BPSK 9Mbps

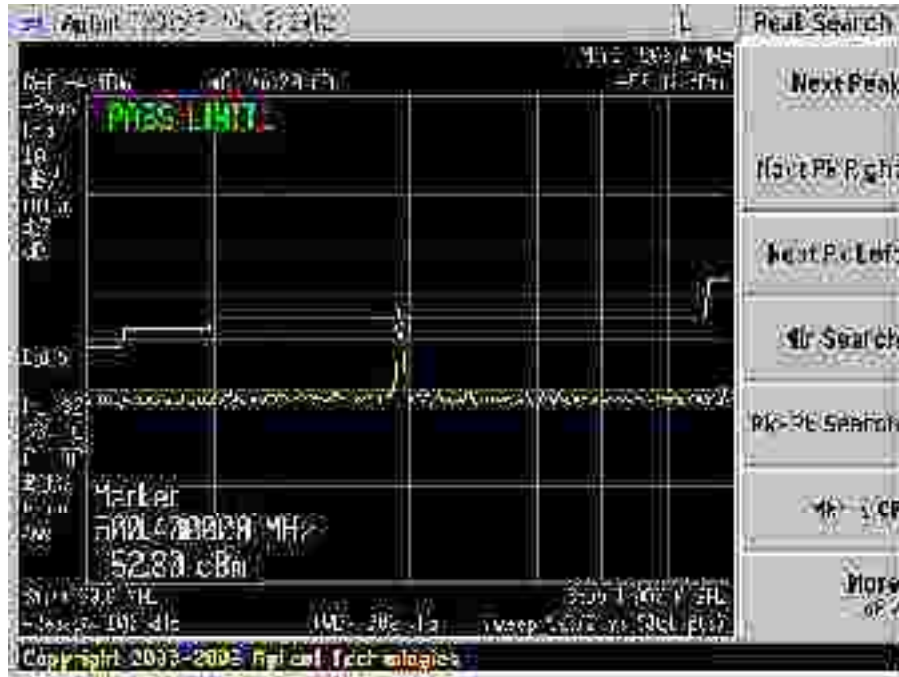


Plot 293 – Channel 11 (upper ch) @ BPSK 9Mbps

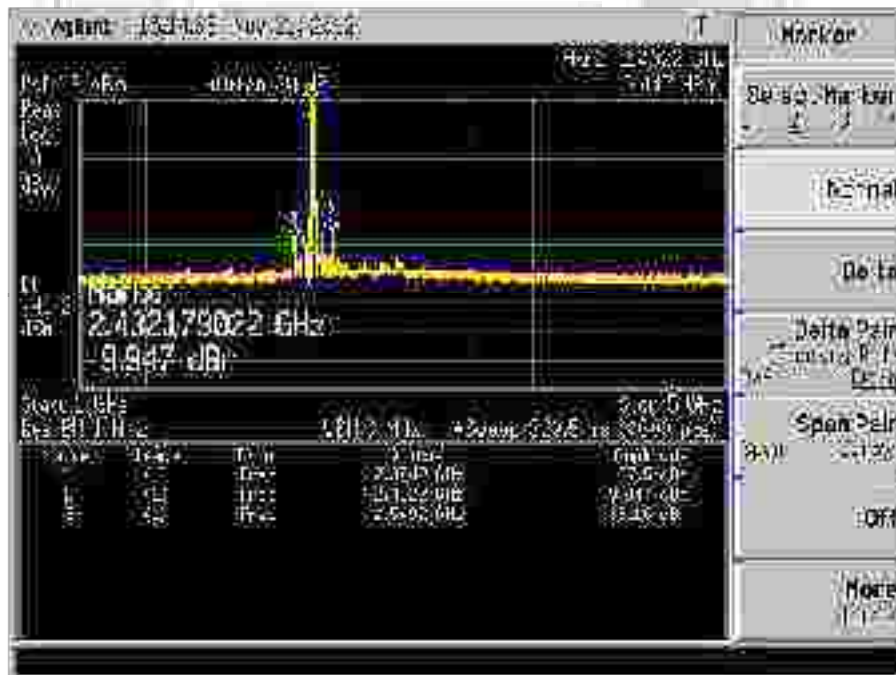


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 294 – Channel 11 (upper ch) @ BPSK 9Mbps



Plot 295 – Channel 11 (upper ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 296 – Channel 11 (upper ch) @ BPSK 9Mbps

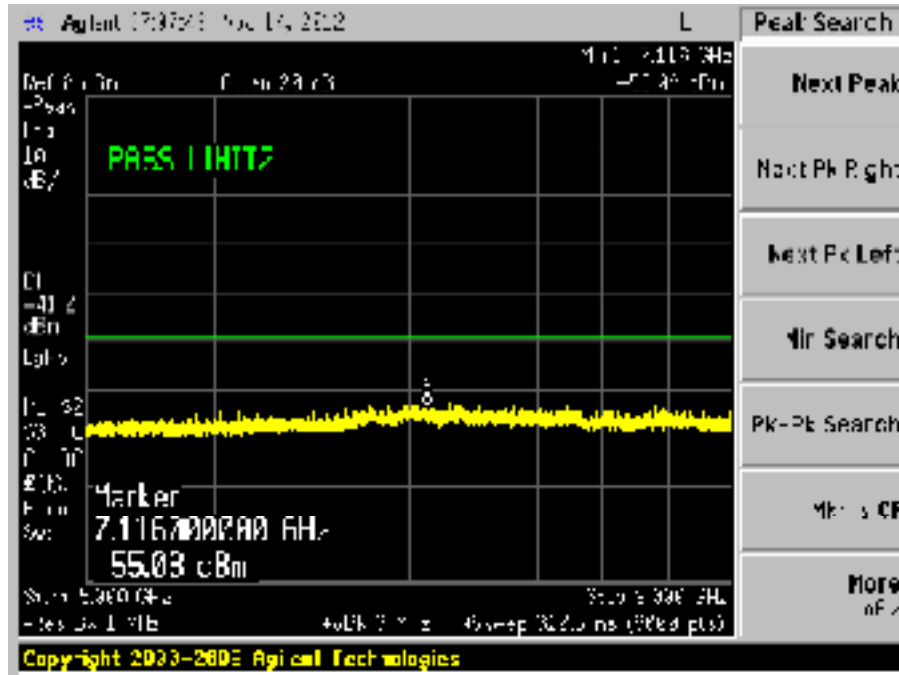


Plot 297 – Channel 11 (upper ch) @ BPSK 9Mbps

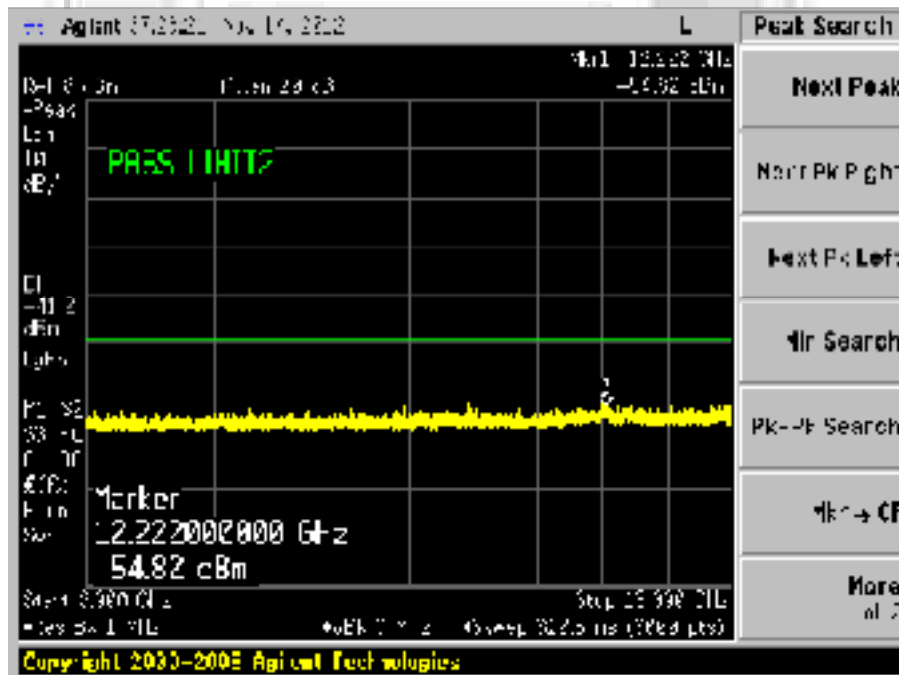


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 298 – Channel 11 (upper ch) @ BPSK 9Mbps

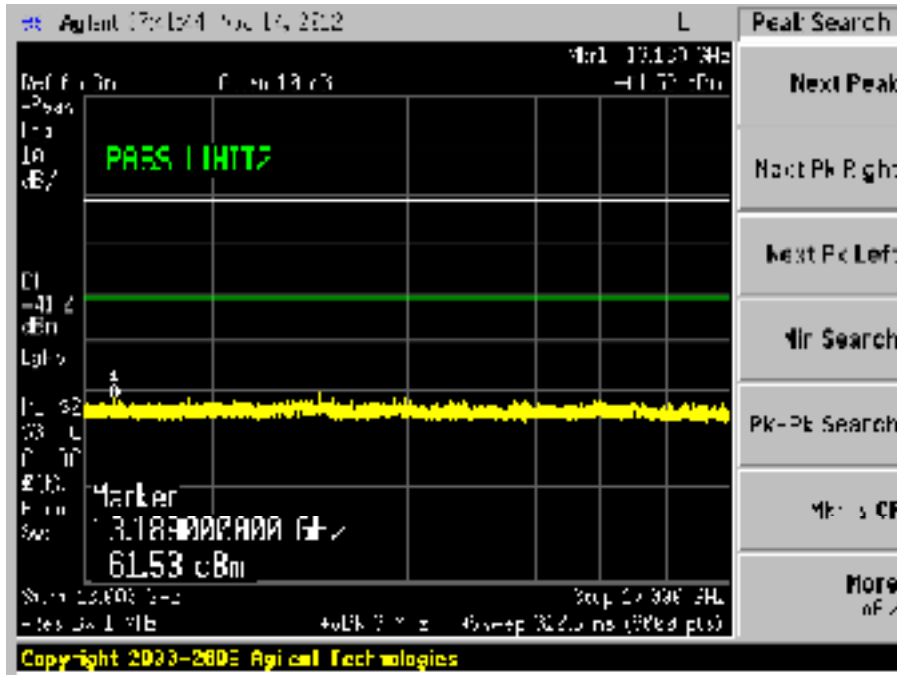


Plot 299 – Channel 11 (upper ch) @ BPSK 9Mbps

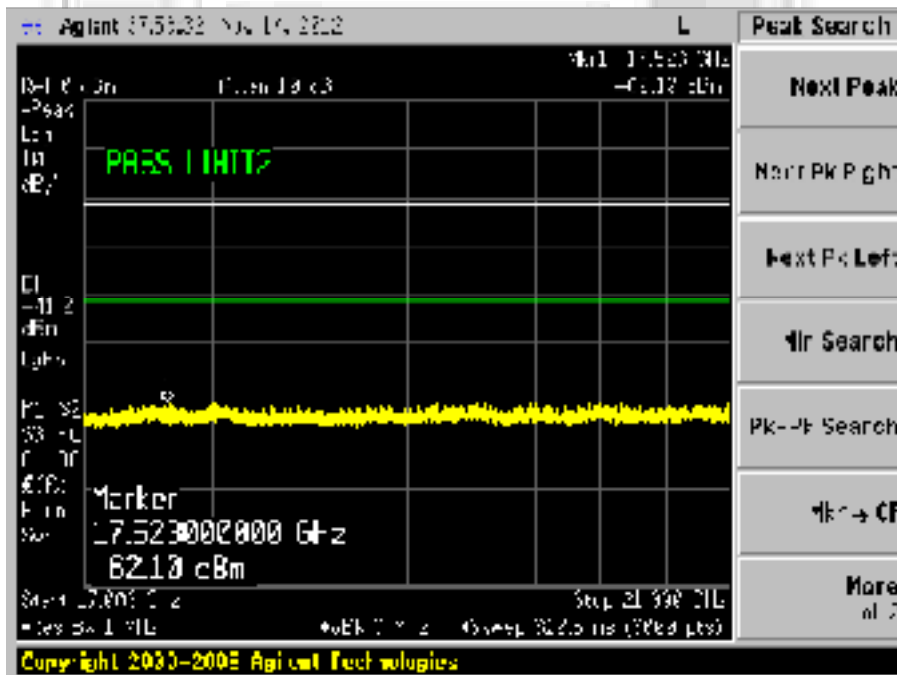


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 300 – Channel 11 (upper ch) @ BPSK 9Mbps

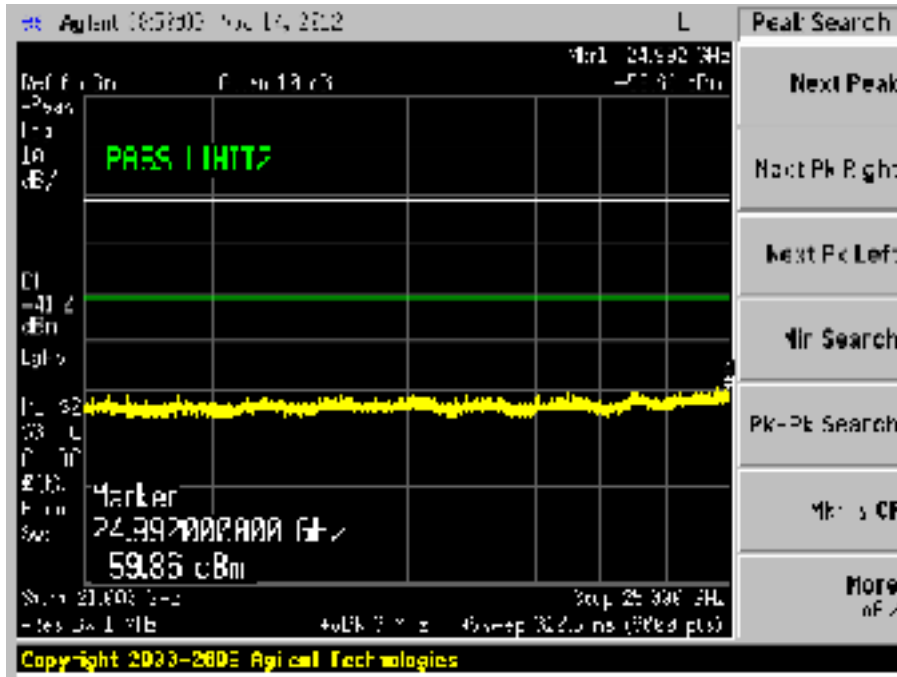


Plot 301 – Channel 11 (upper ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



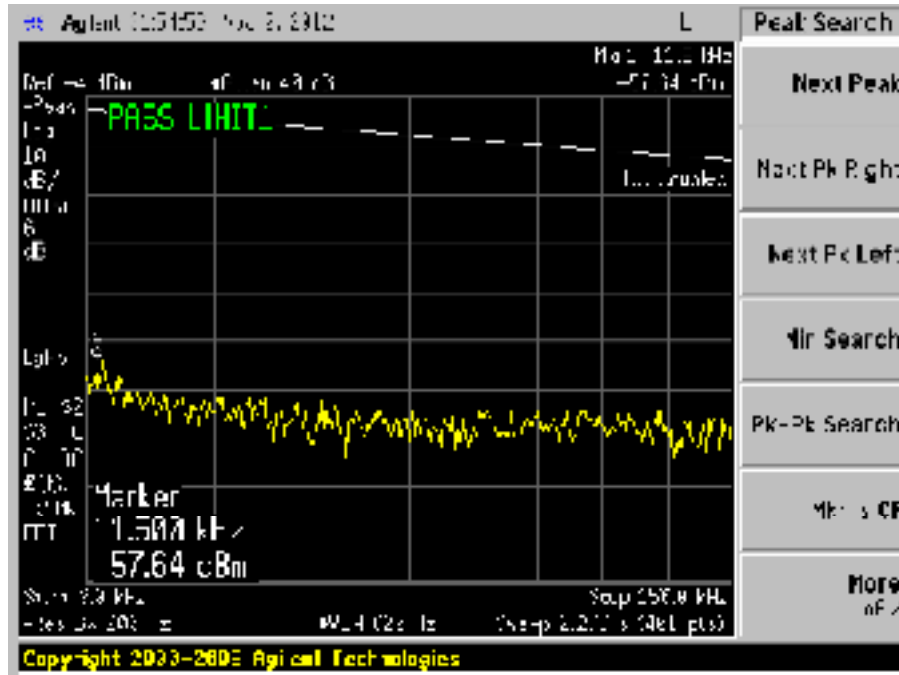
Plot302 – Channel 11 (upper ch) @ BPSK 9Mbps



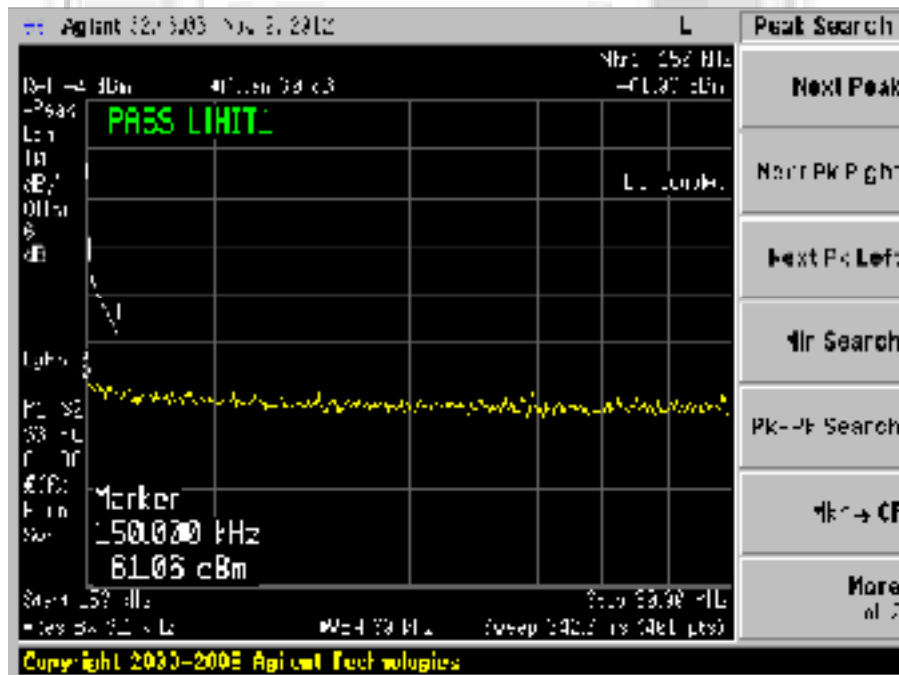


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 303 – Channel 11 (upper ch) @ QPSK 18Mbps



Plot 304 – Channel 11 (upper ch) @ QPSK 18Mbps

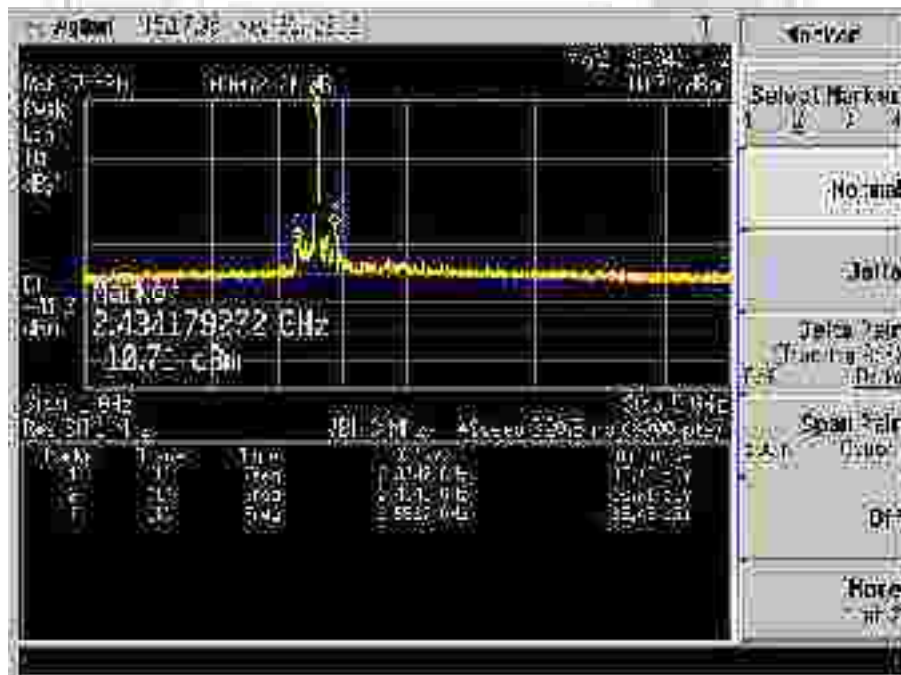


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 305 – Channel 11 (upper ch) @ QPSK 18Mbps



Plot 306 – Channel 11 (upper ch) @ QPSK 18Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 307 – Channel 11 (upper ch) @ QPSK 18Mbps

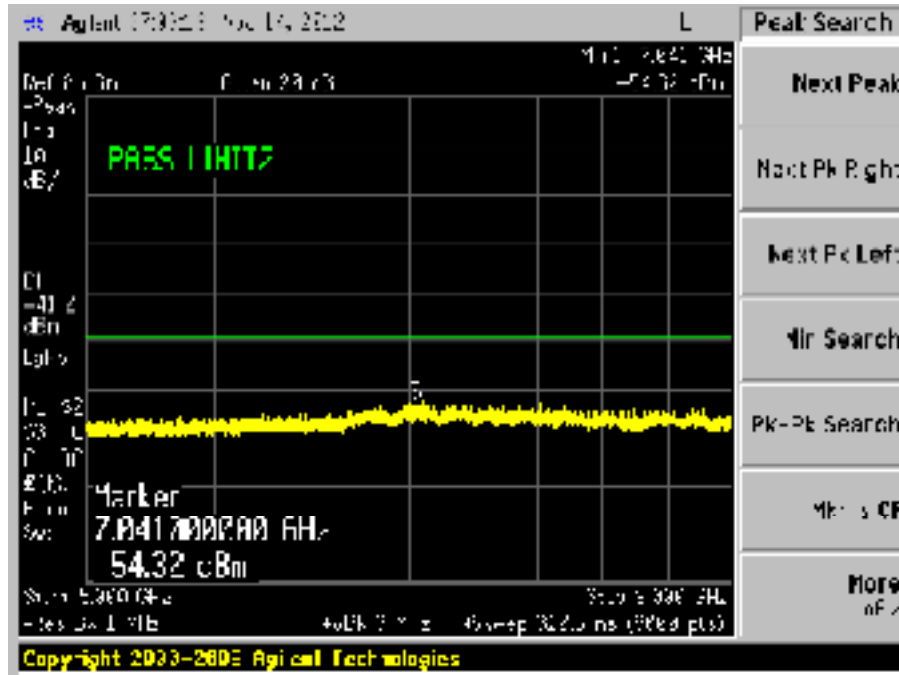


Plot 308 – Channel 11 (upper ch) @ QPSK 18Mbps

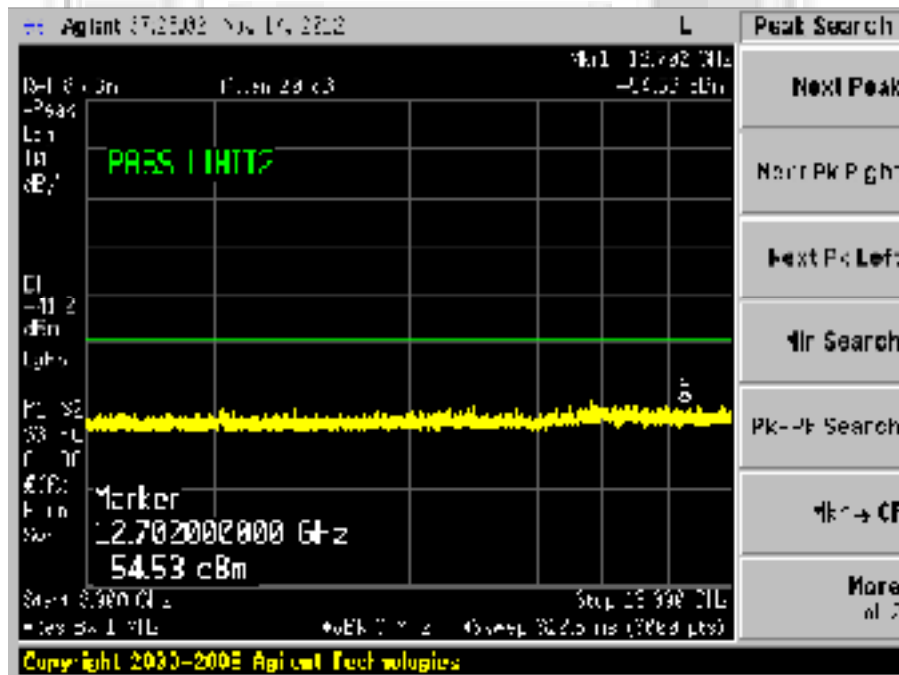


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 309 – Channel 11 (upper ch) @ QPSK 18Mbps

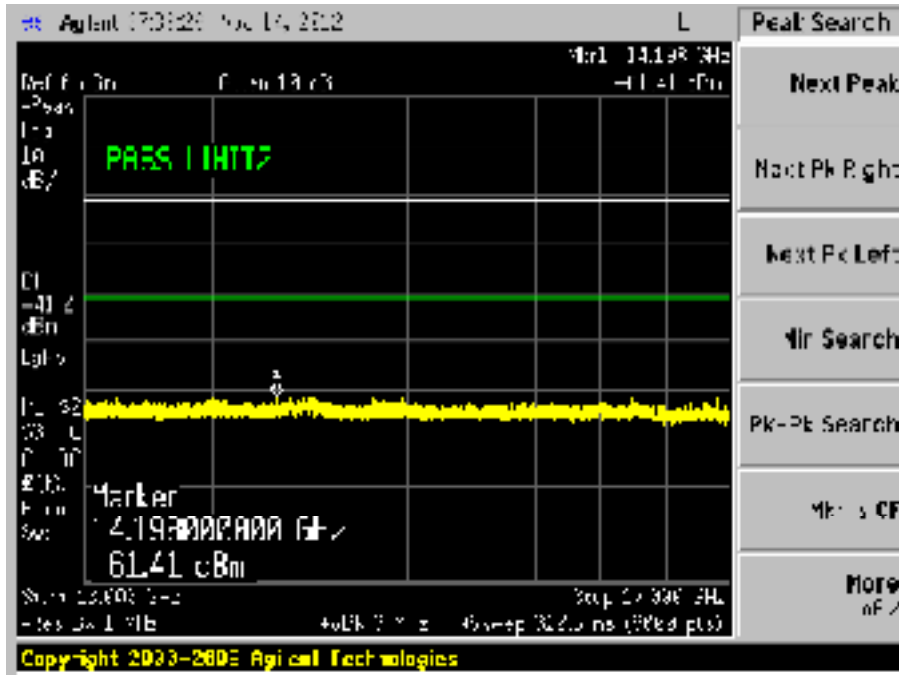


Plot 310 – Channel 11 (upper ch) @ QPSK 18Mbps

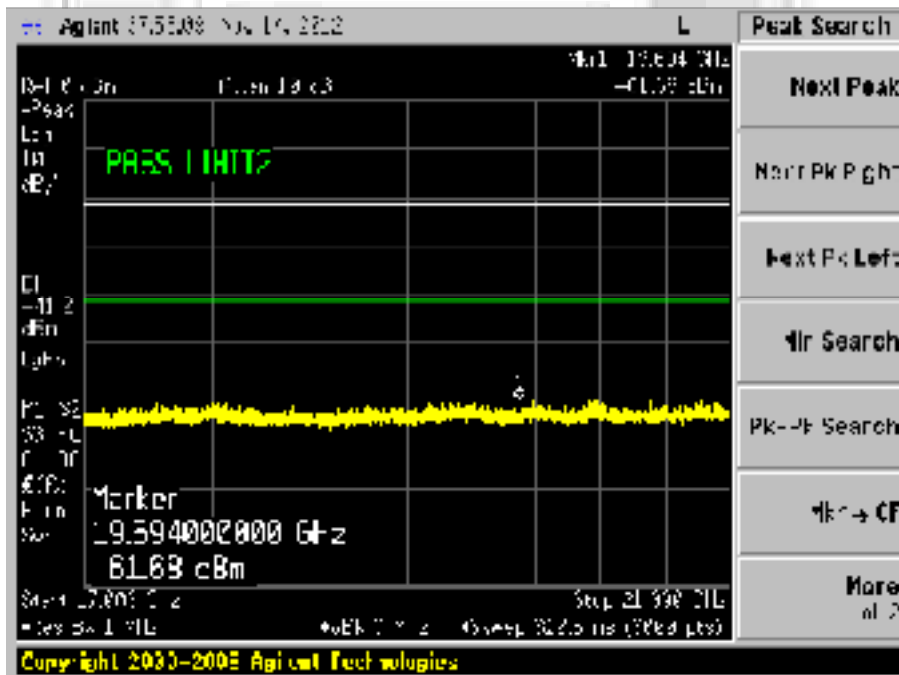


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 311 – Channel 11 (upper ch) @ QPSK 18Mbps

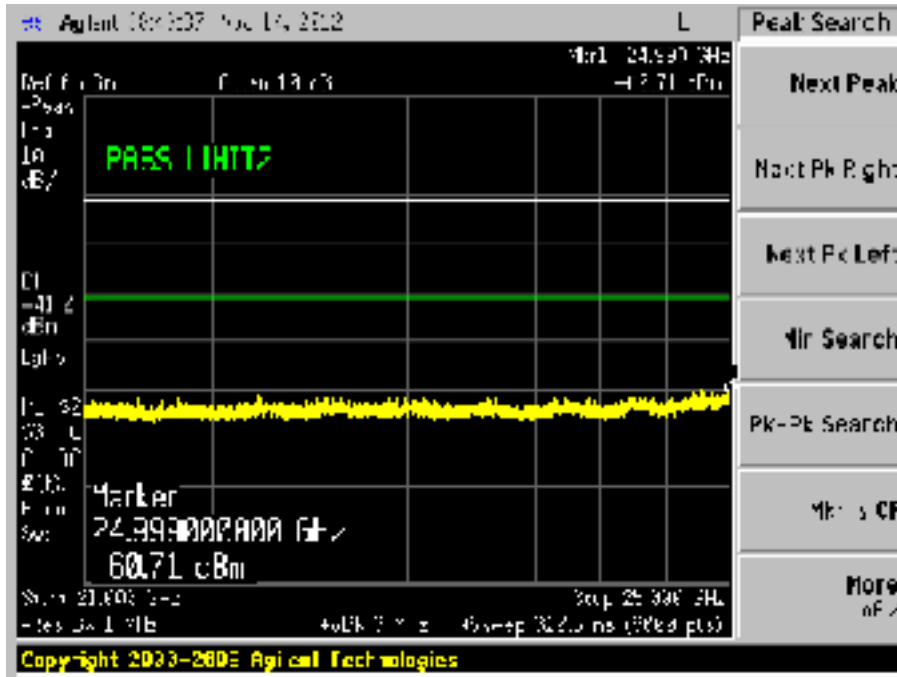


Plot 312 – Channel 11 (upper ch) @ QPSK 18Mbps

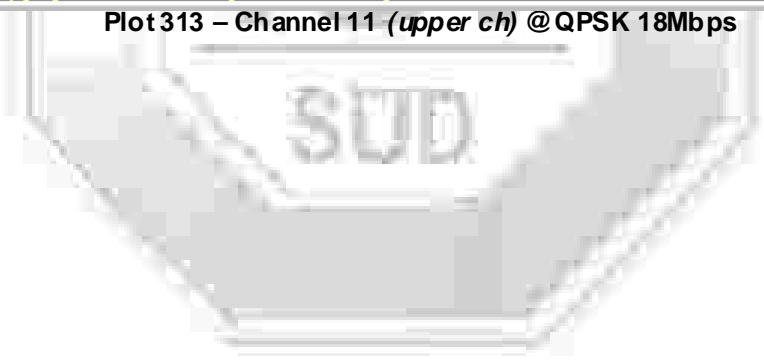


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



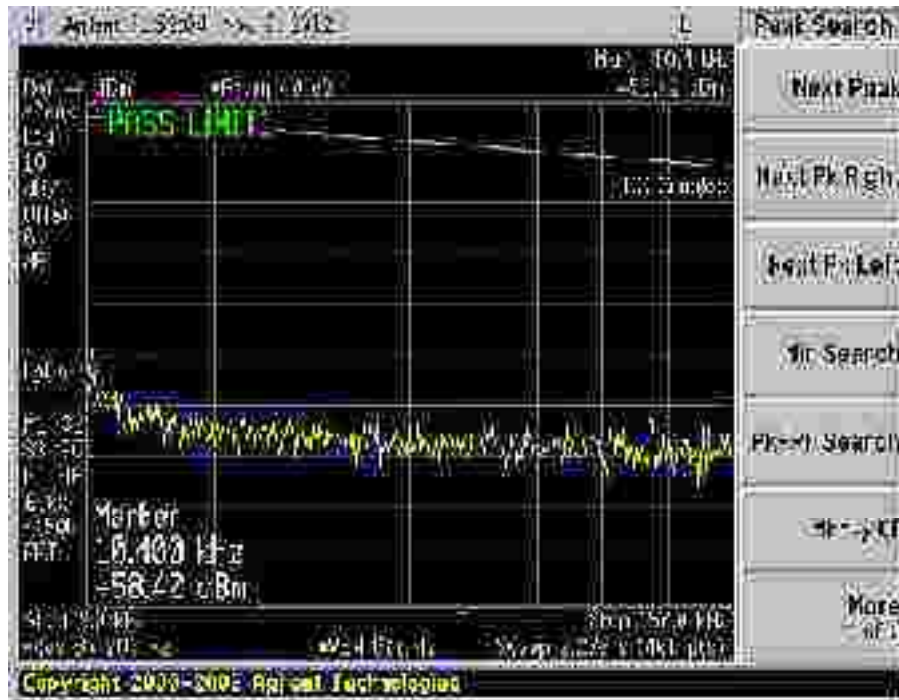
Plot313 – Channel 11 (upper ch) @ QPSK 18Mbps



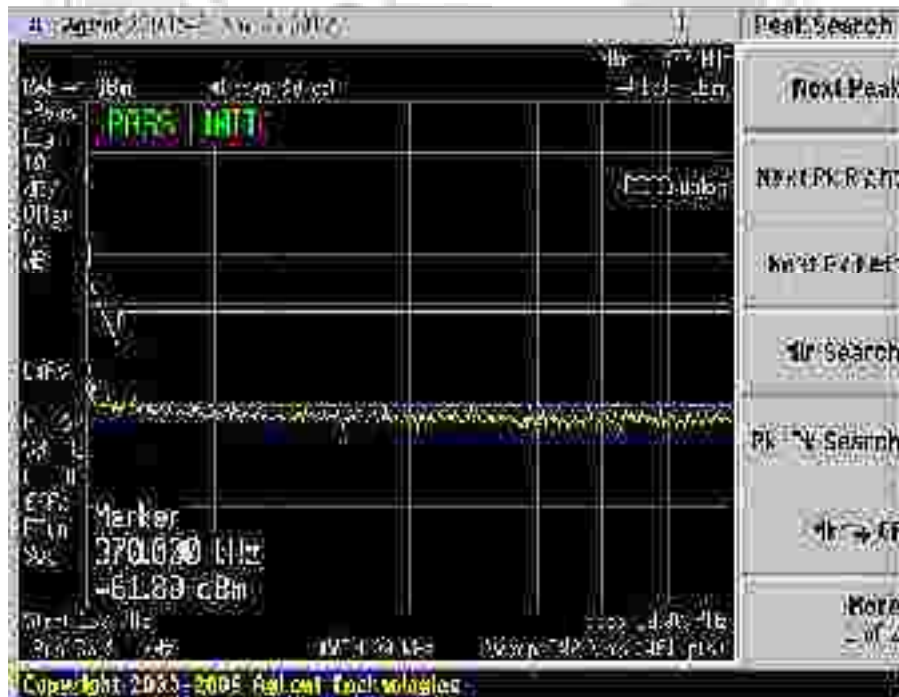


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 314 – Channel 11 (upper ch) @ 16QAM 36Mbps

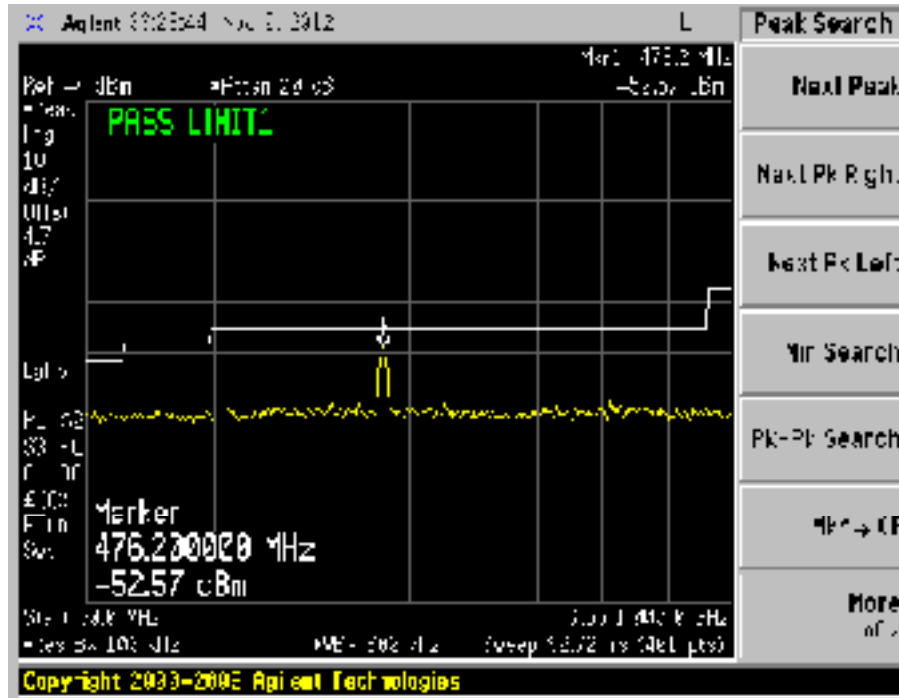


Plot 315 – Channel 11 (upper ch) @ 16QAM 36Mbps

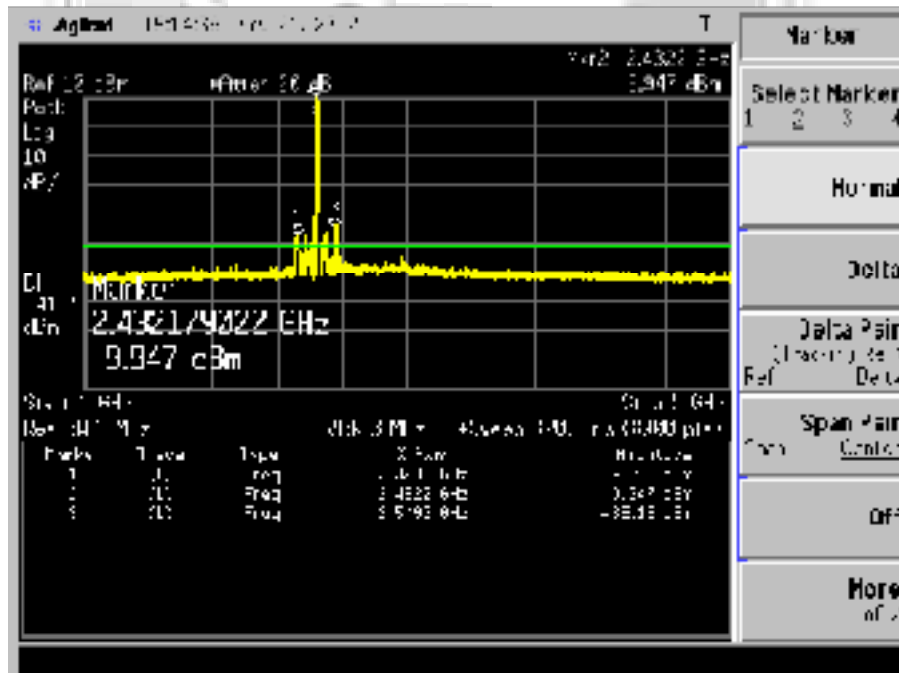


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 316 – Channel 11 (upper ch) @ 16QAM 36Mbps

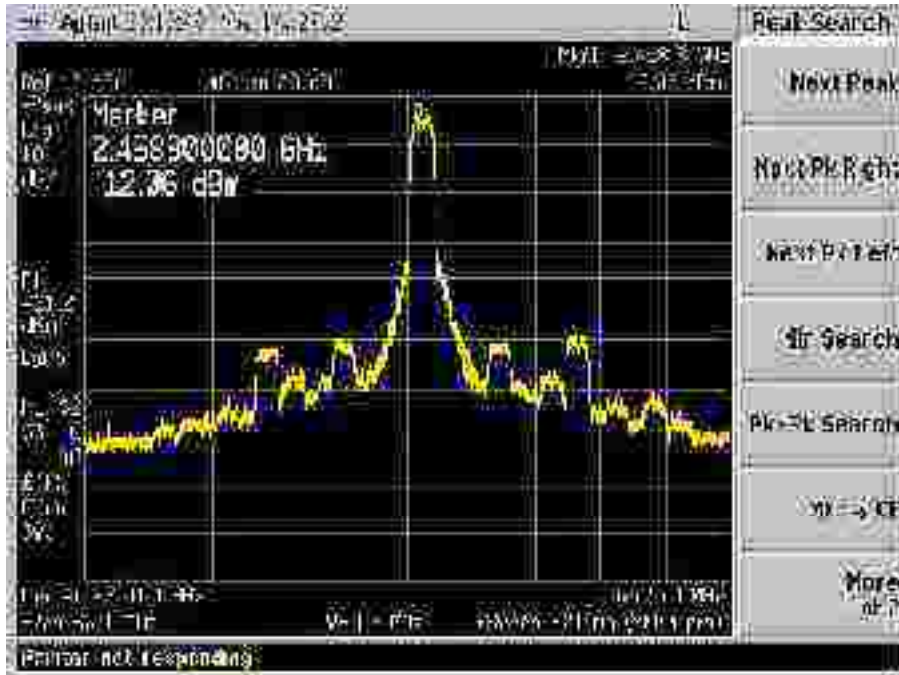


Plot 317 – Channel 11 (upper ch) @ 16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 318 – Channel 11 (upper ch) @ 16QAM 36Mbps

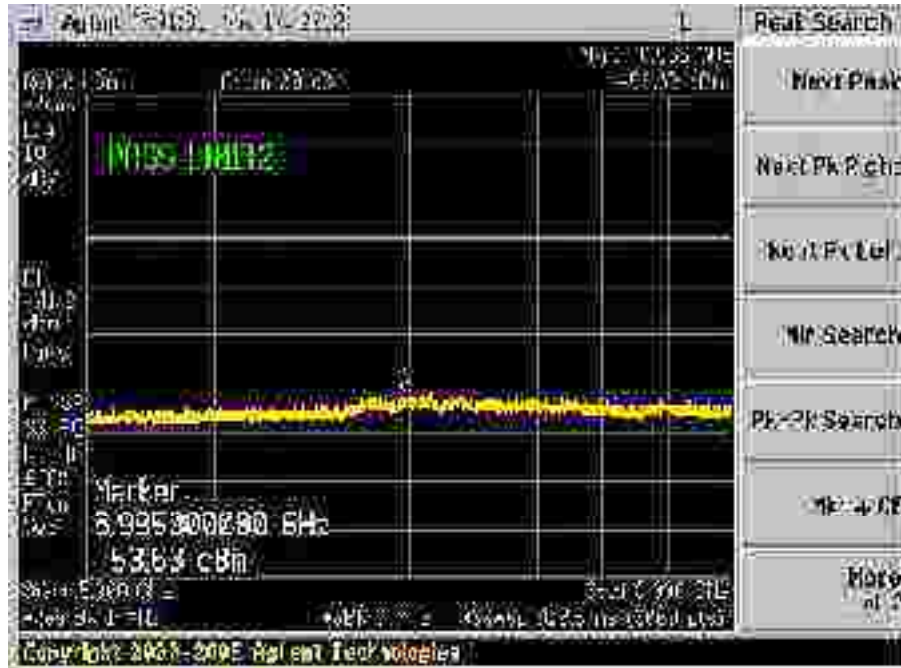


Plot 319 – Channel 11 (upper ch) @ 16QAM 36Mbps

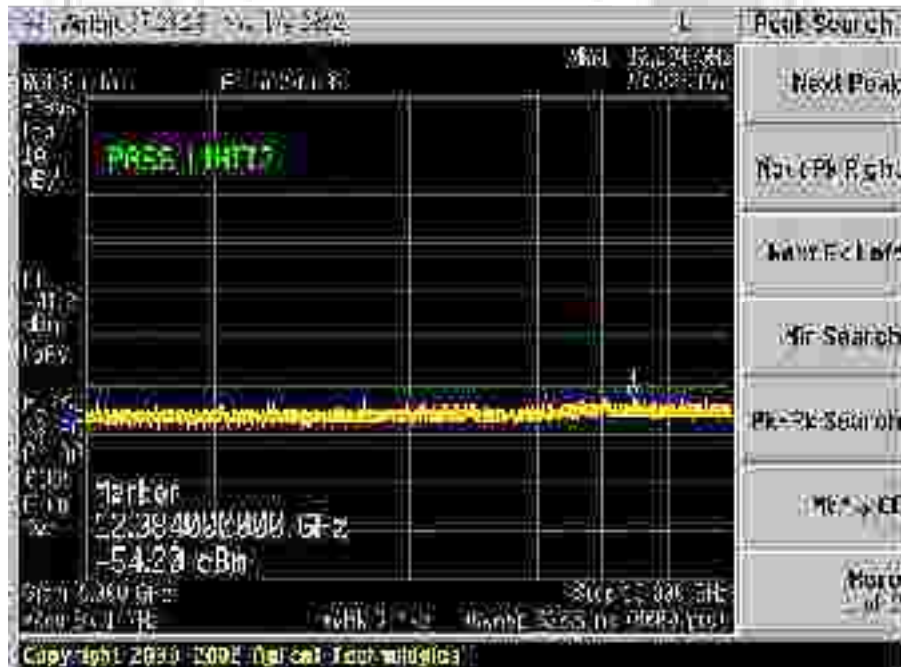


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 320 – Channel 11 (upper ch) @ 16QAM 36Mbps

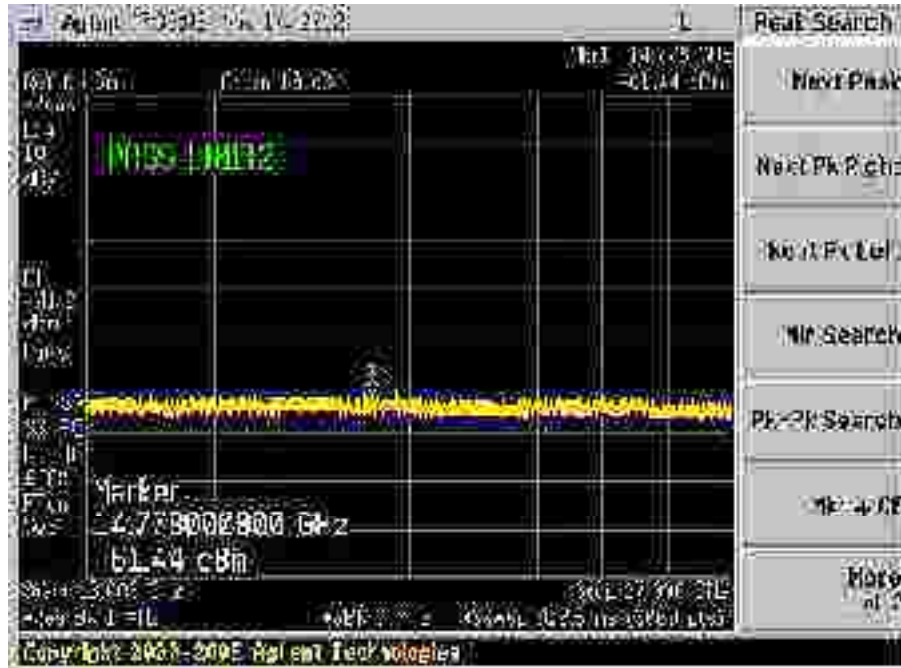


Plot 321 – Channel 11 (upper ch) @ 16QAM 36Mbps

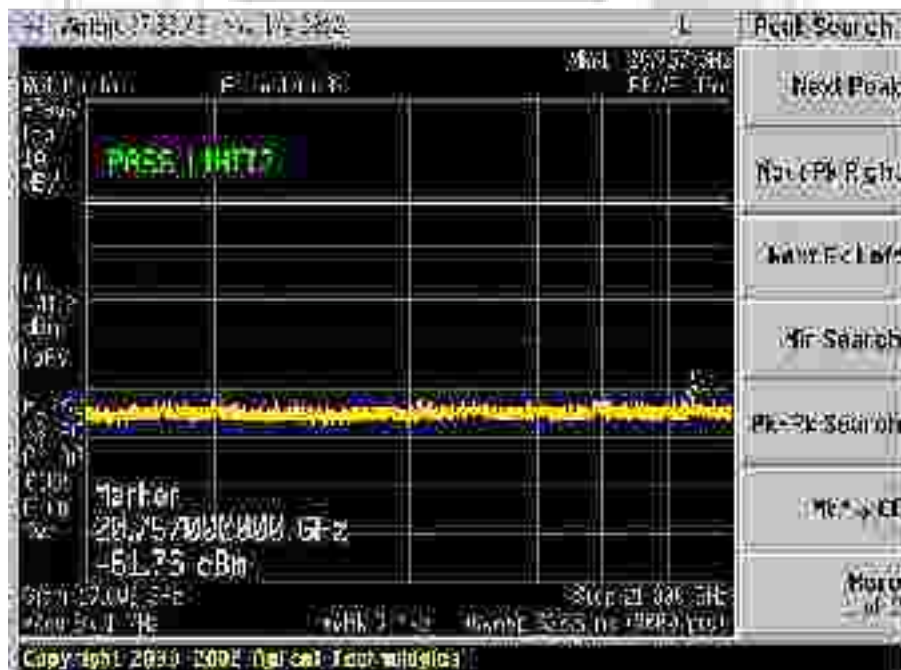


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 322 – Channel 11 (upper ch) @ 16QAM 36Mbps

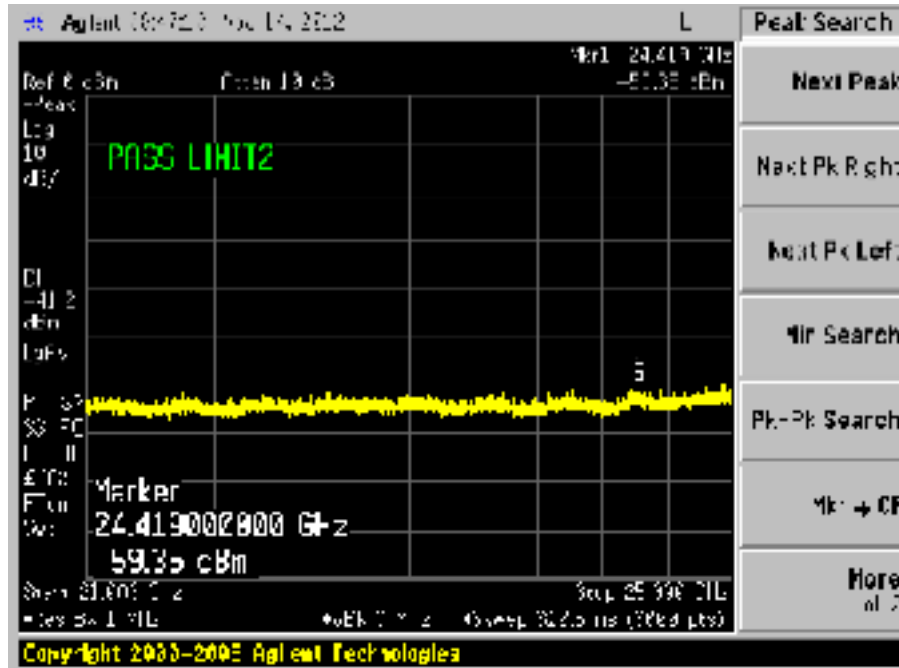


Plot 323 – Channel 11 (upper ch) @ 16QAM 36Mbps

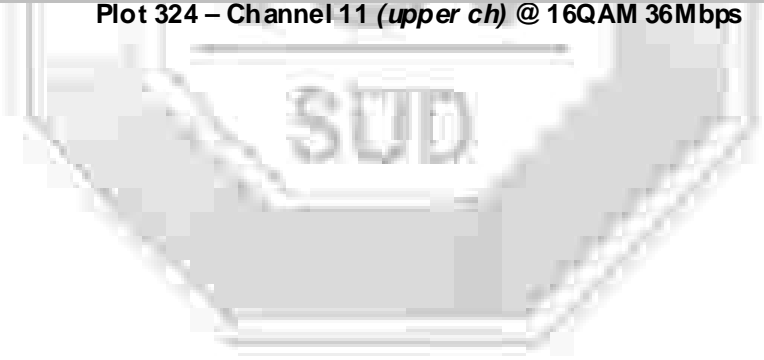


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



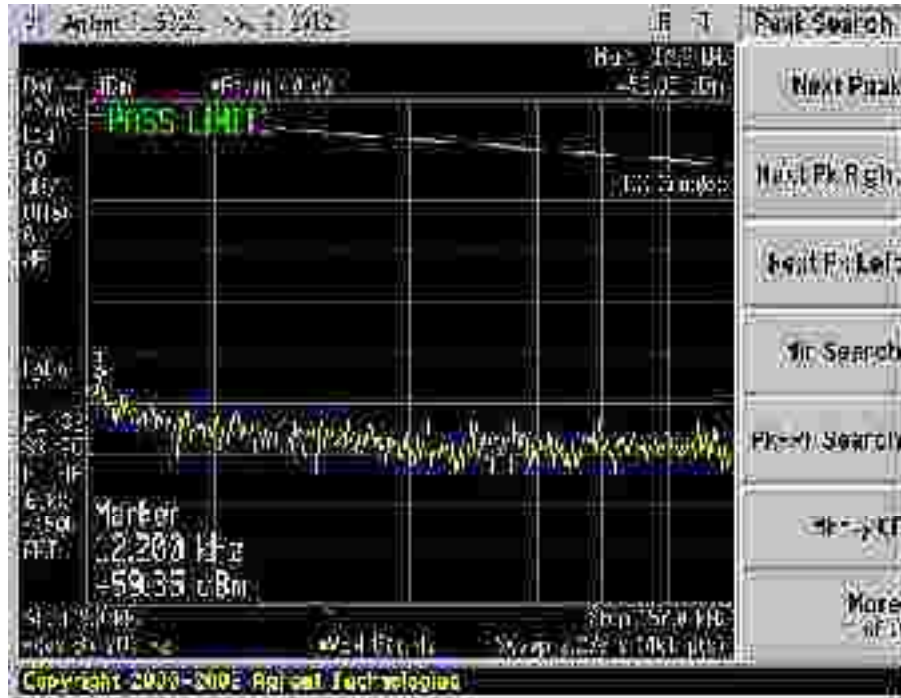
Plot 324 – Channel 11 (upper ch) @ 16QAM 36Mbps



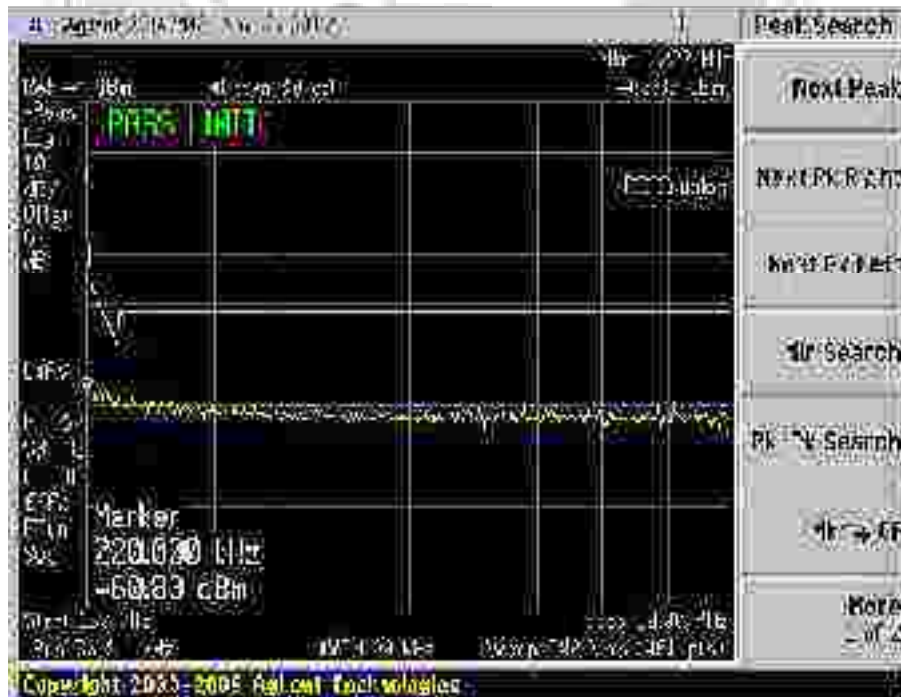


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 325 – Channel 11 (upper ch) @ 64QAM 54Mbps

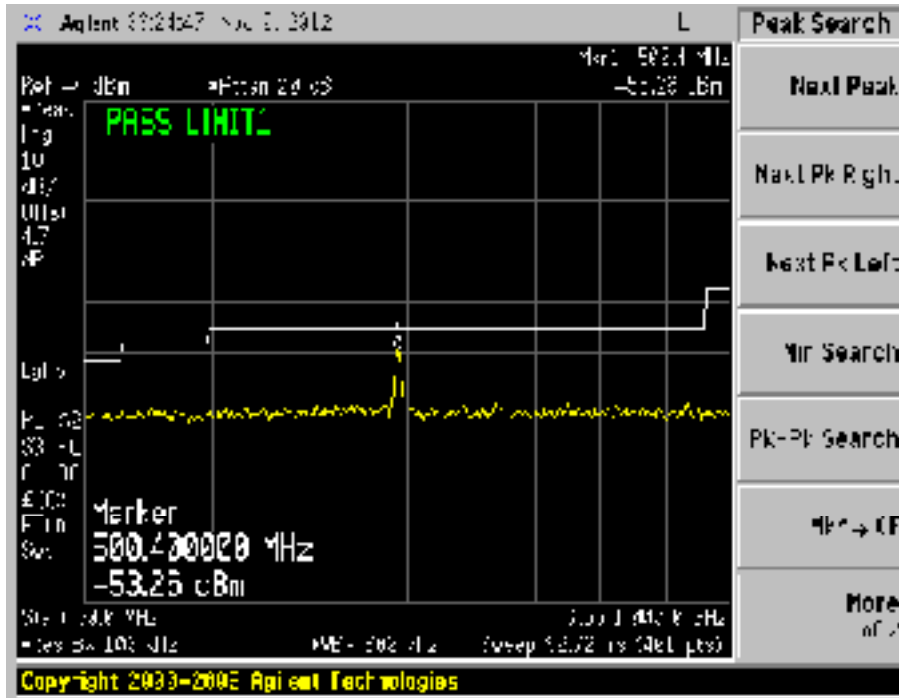


Plot 326 – Channel 11 (upper ch) @ 64QAM 54Mbps

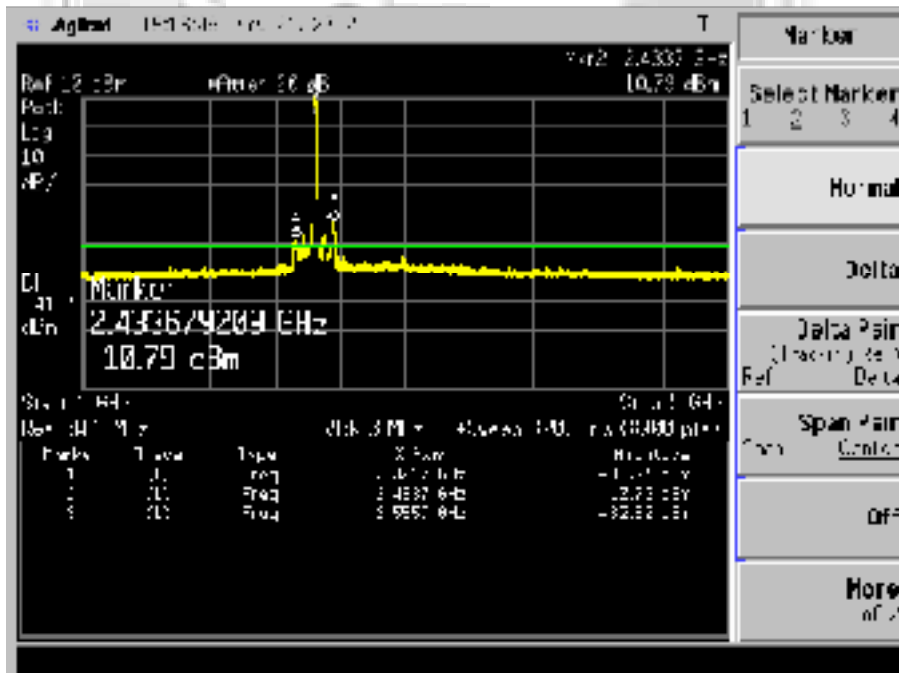


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 327 – Channel 11 (upper ch) @ 64QAM 54Mbps



Plot 328 – Channel 11 (upper ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 1)



Plot 329 – Channel 11 (upper ch) @ 64QAM 54Mbps

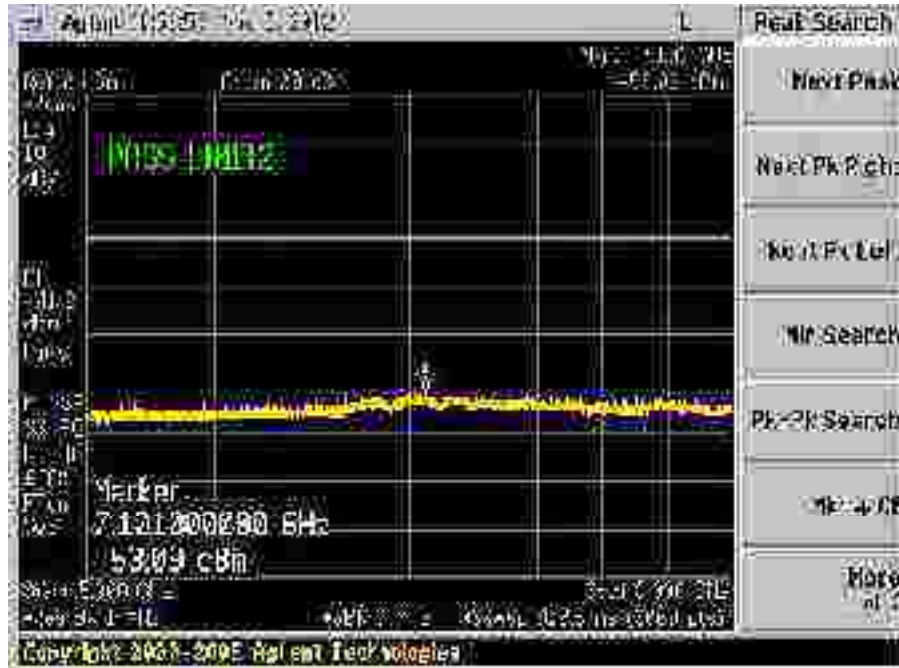


Plot 330 – Channel 11 (upper ch) @ 64QAM 54Mbps

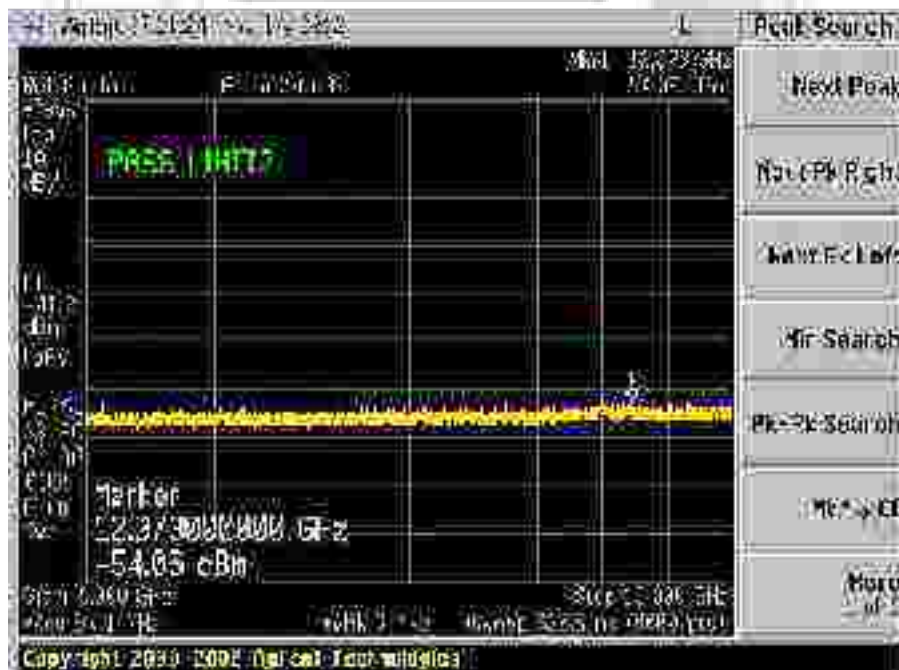


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 331 – Channel 11 (upper ch) @ 64QAM 54Mbps

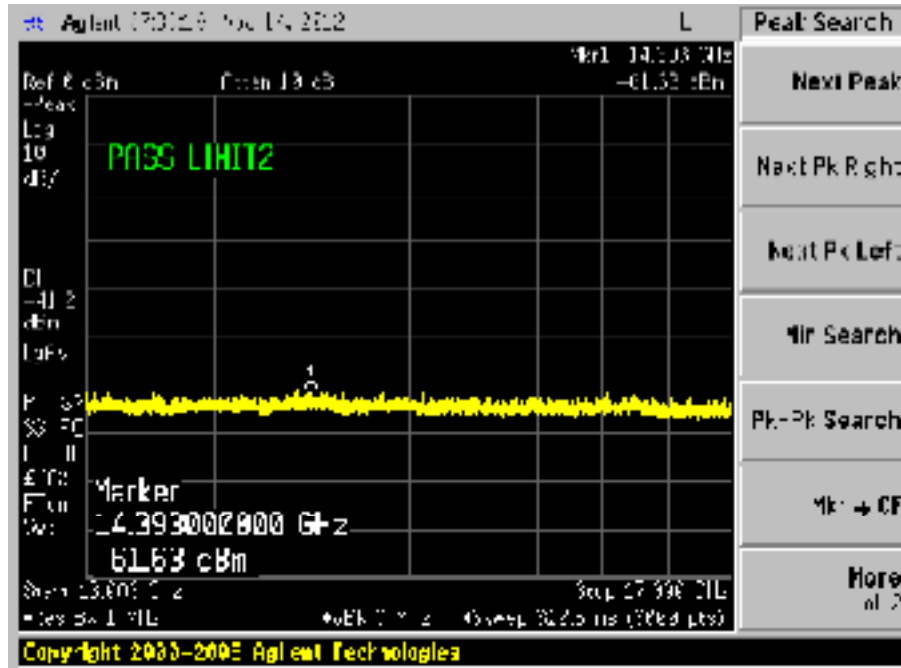


Plot 332 – Channel 11 (upper ch) @ 64QAM 54Mbps

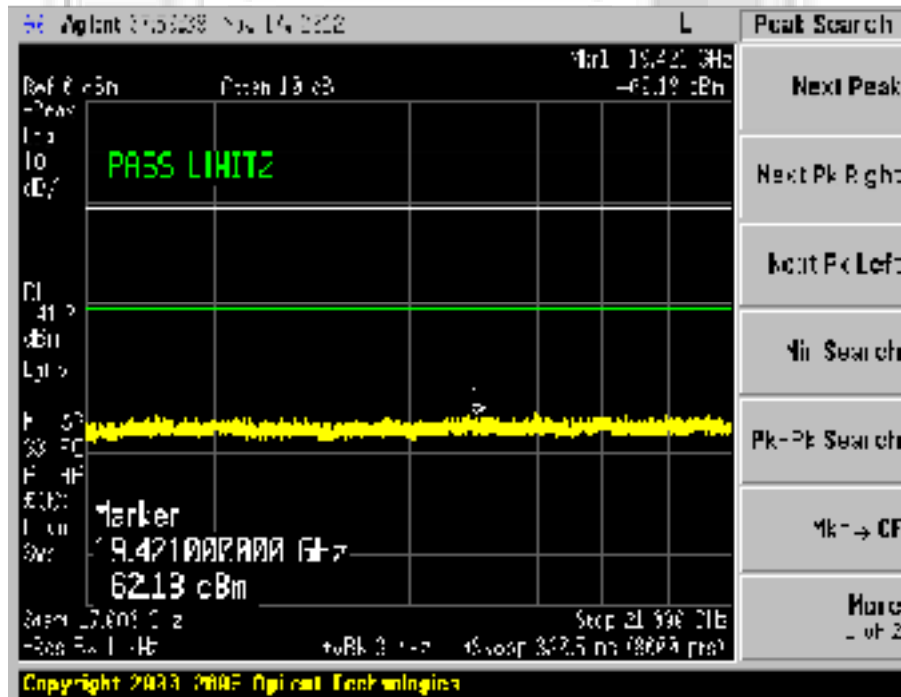


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)



Plot 333 – Channel 11 (upper ch) @ 64QAM 54Mbps

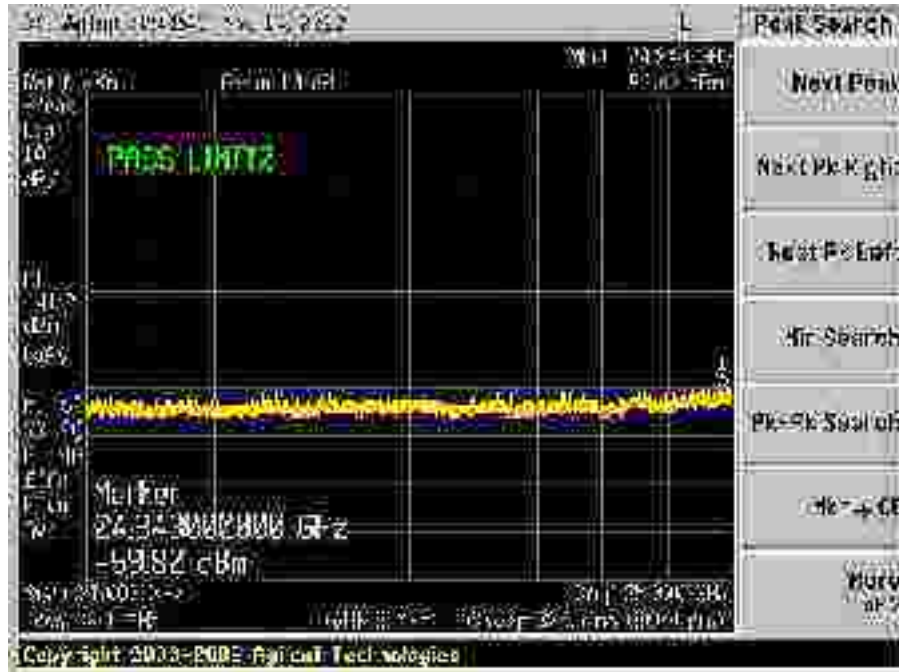


Plot 334 – Channel 11 (upper ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 1)

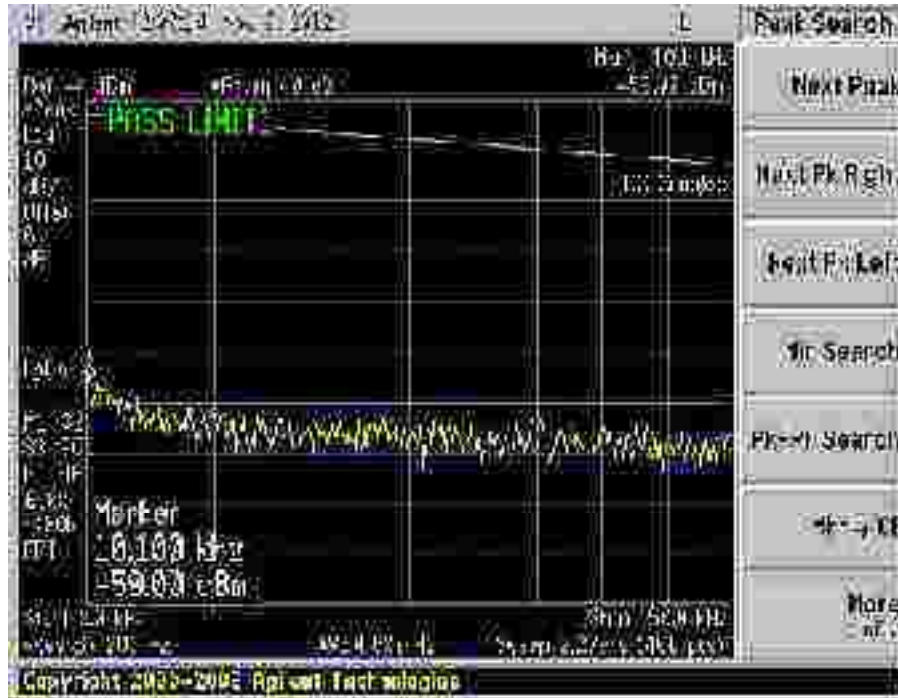


Plot 335 – Channel 11 (upper ch) @ 64QAM 54Mbps

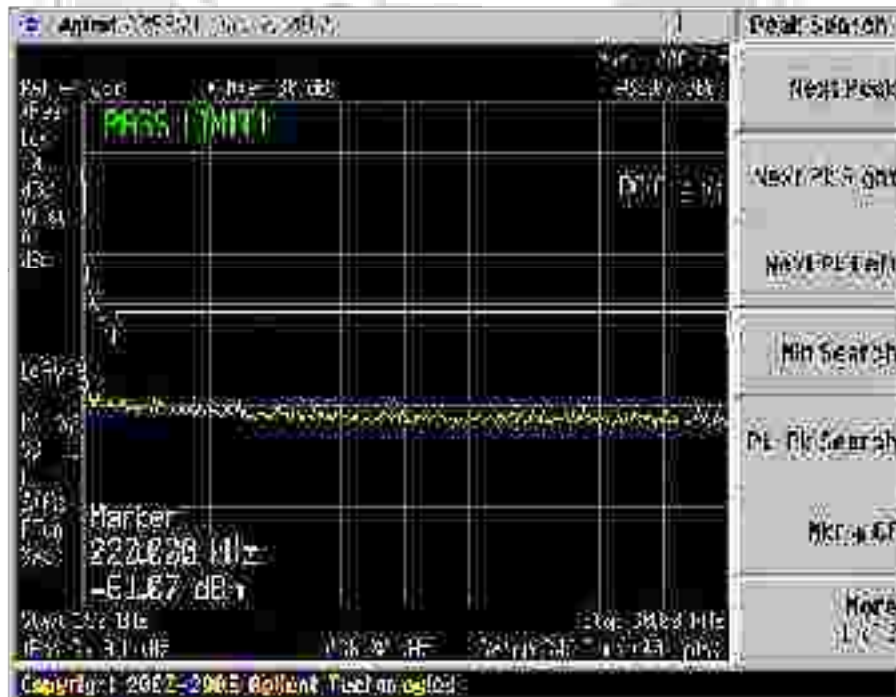


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 336 – Channel 1 (lower ch) @DBPSK 1Mbps

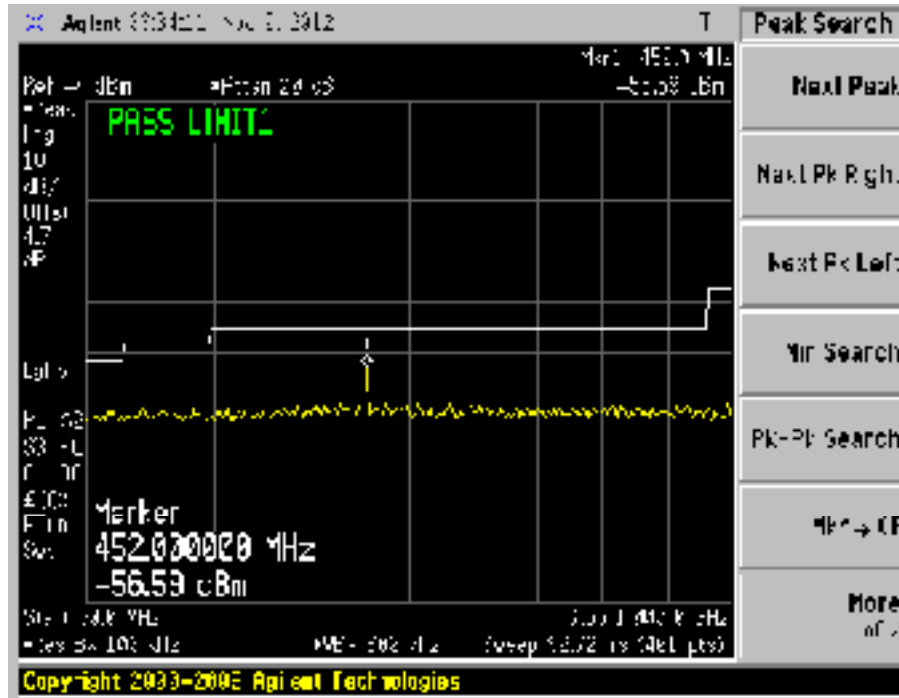


Plot 337 – Channel 1 (lower ch) @DBPSK 1Mbps

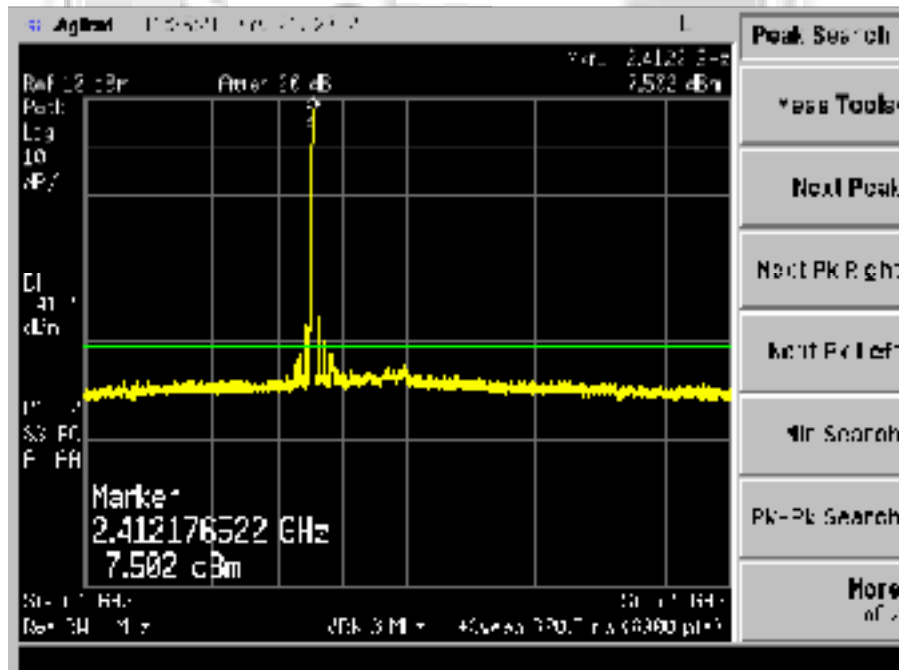


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 338 – Channel 1 (lower ch) @DBPSK 1Mbps

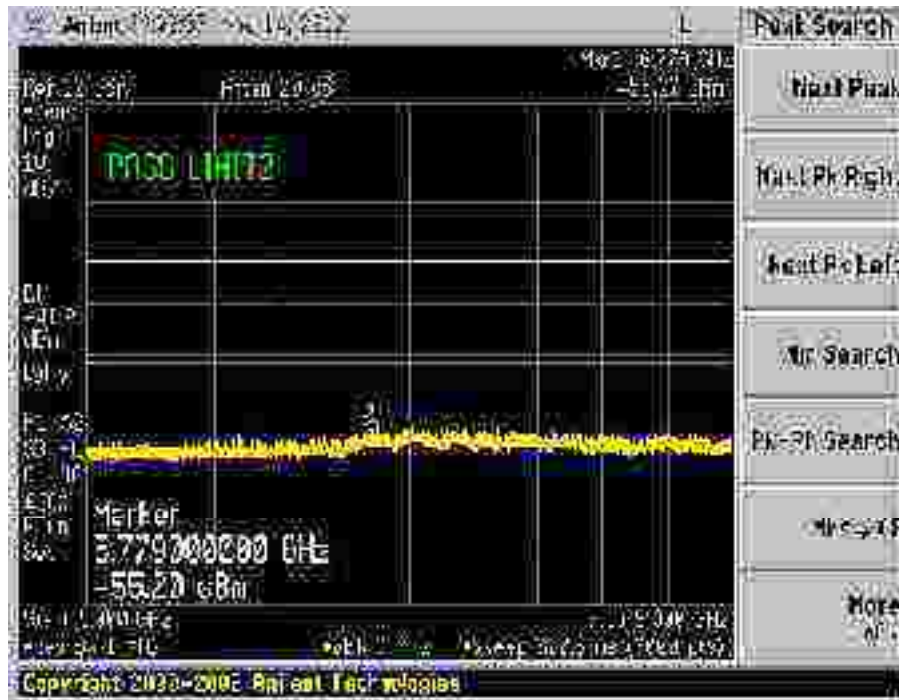


Plot 339 – Channel 1 (lower ch) @DBPSK 1Mbps

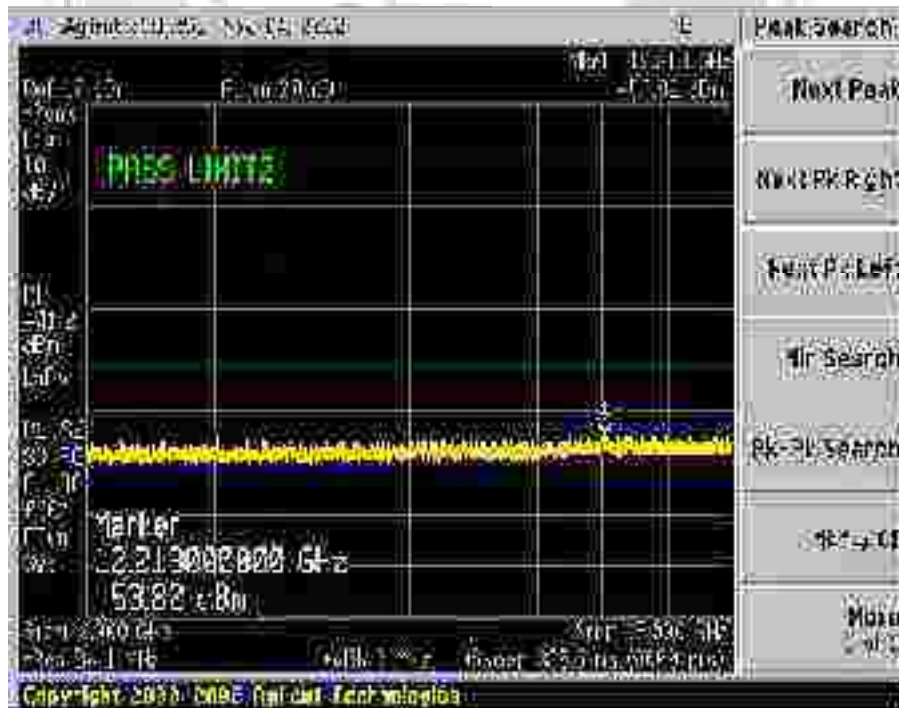


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 340 – Channel 1 (*lower ch*) @DBPSK 1Mbps

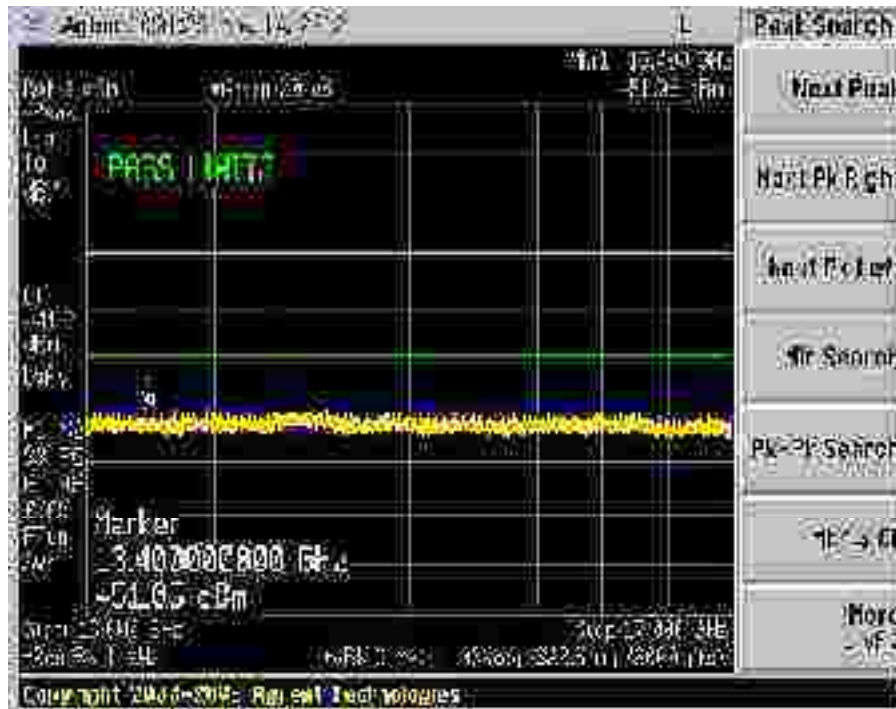


Plot 341 – Channel 1 (*lower ch*) @DBPSK 1Mbps

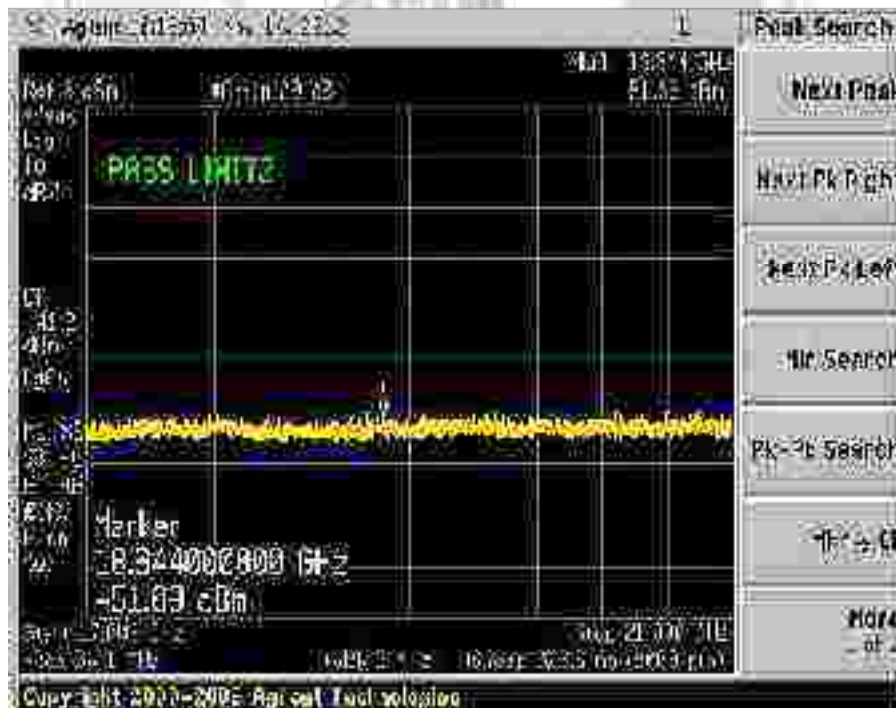


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 342 – Channel 1 (lower ch) @DBPSK 1Mbps

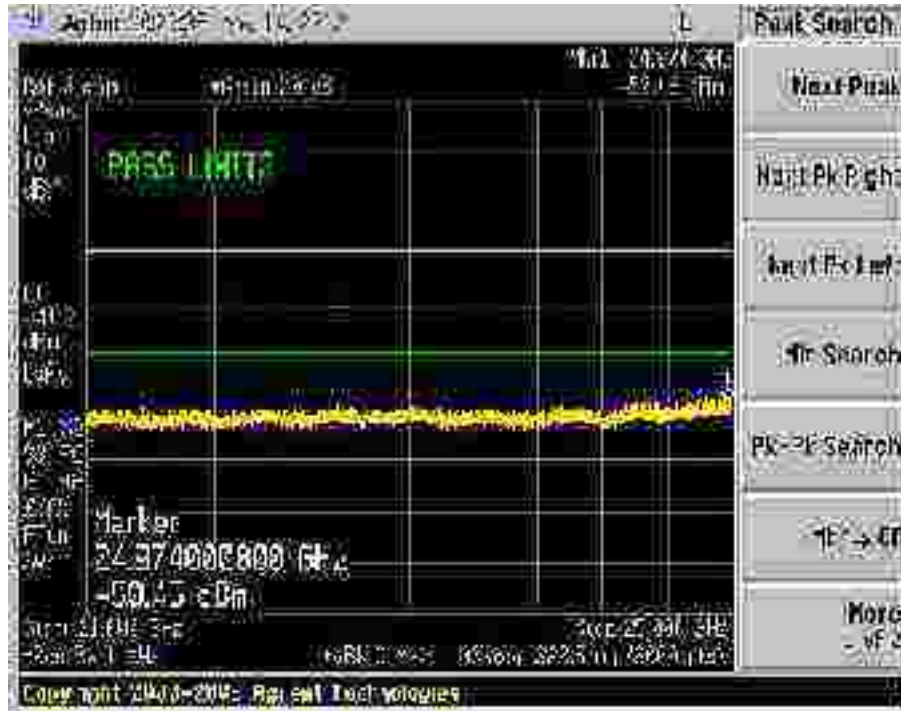


Plot 343 – Channel 1 (lower ch) @DBPSK 1Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)

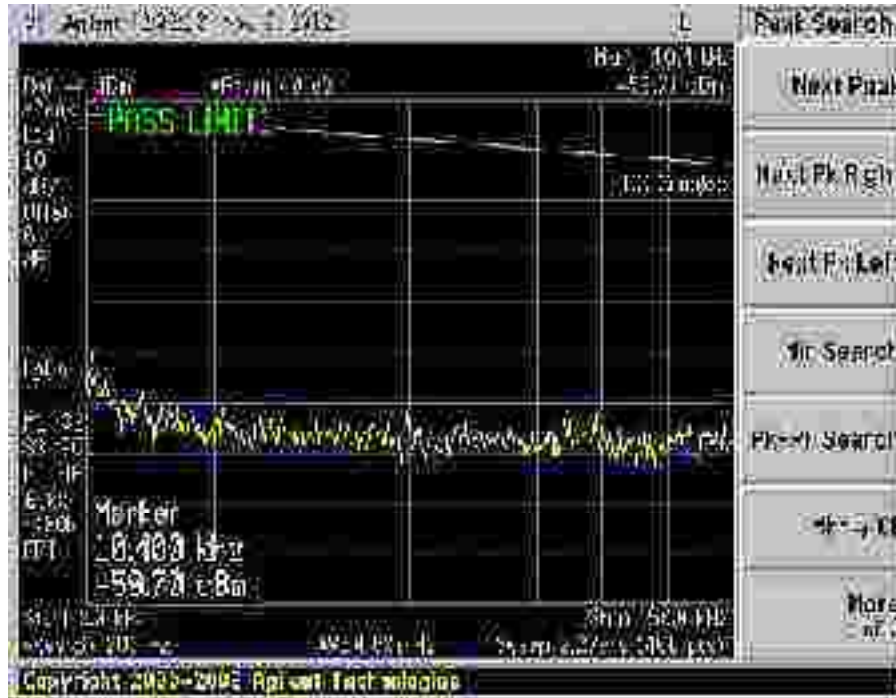


Plot 344 – Channel 1 (lower ch) @ DBPSK 1Mbps

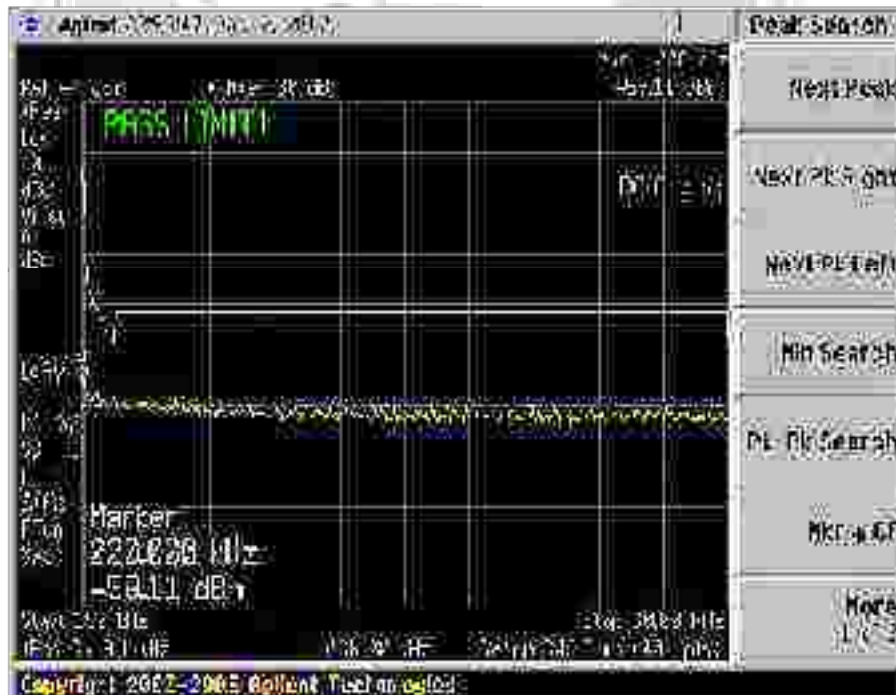


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 345 – Channel 1 (lower ch) @ DQPSK 2Mbps

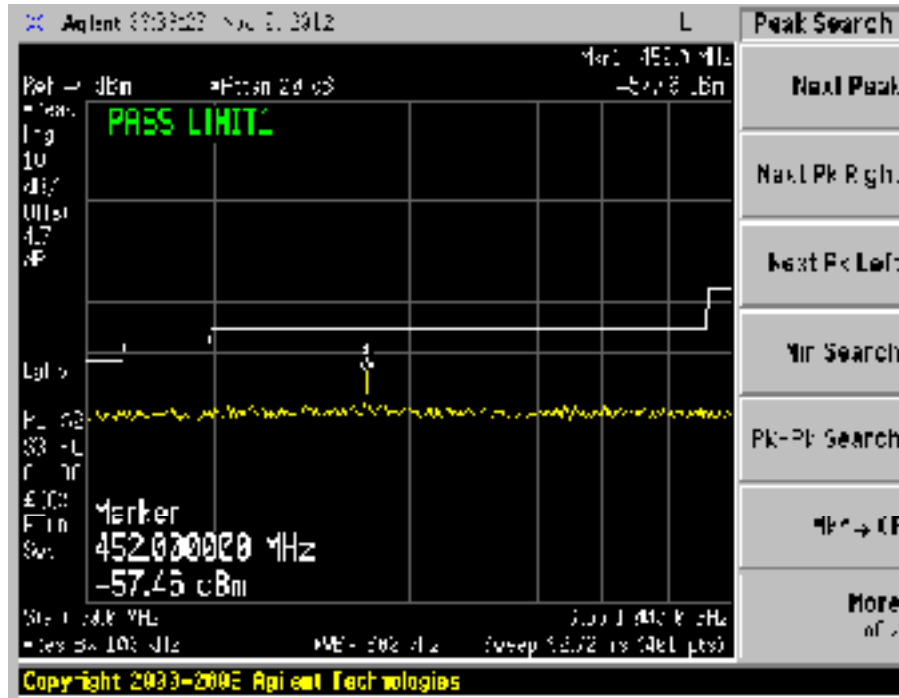


Plot 346 – Channel 1 (lower ch) @ DQPSK 2Mbps

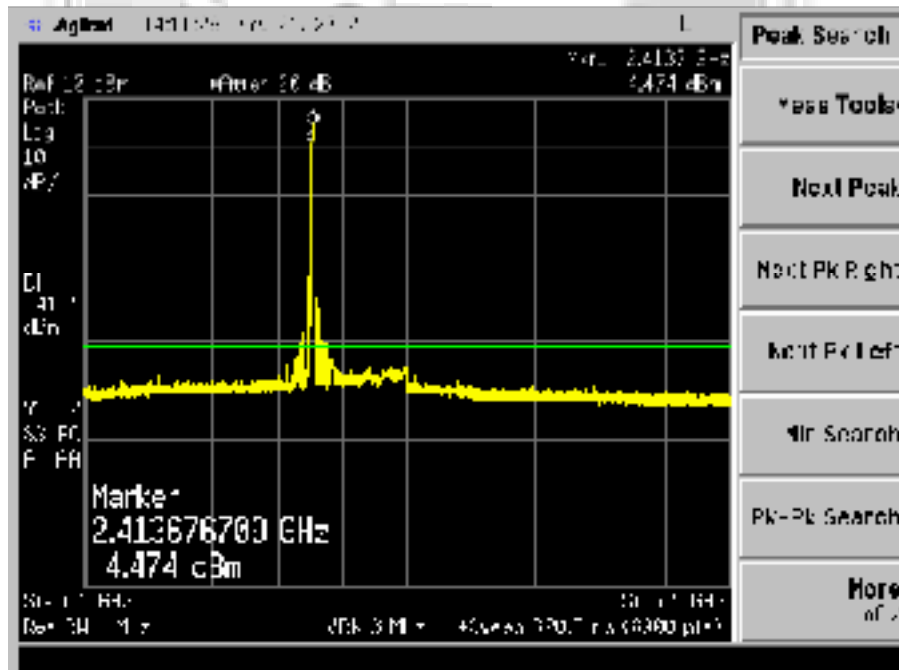


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 347 – Channel 1 (lower ch) @ DQPSK 2Mbps

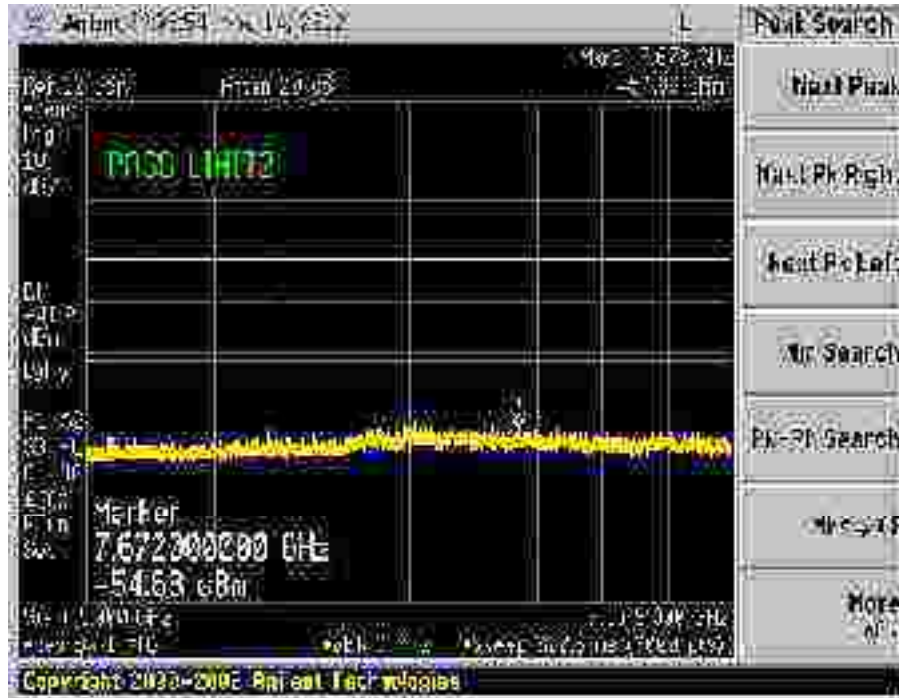


Plot 348 – Channel 1 (lower ch) @ DQPSK 2Mbps

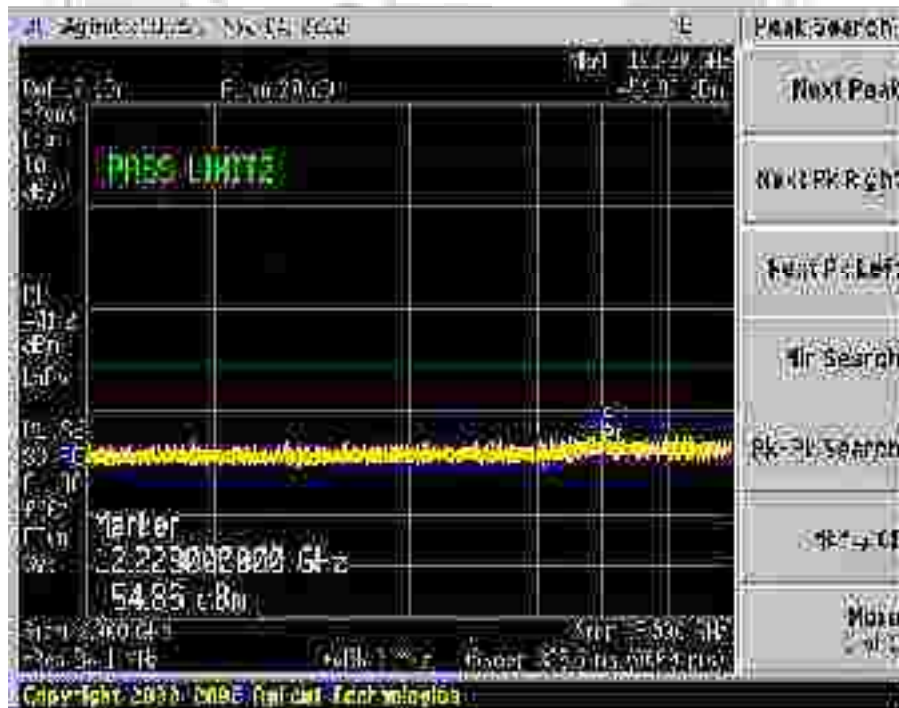


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 349 – Channel 1 (lower ch) @ DQPSK 2Mbps

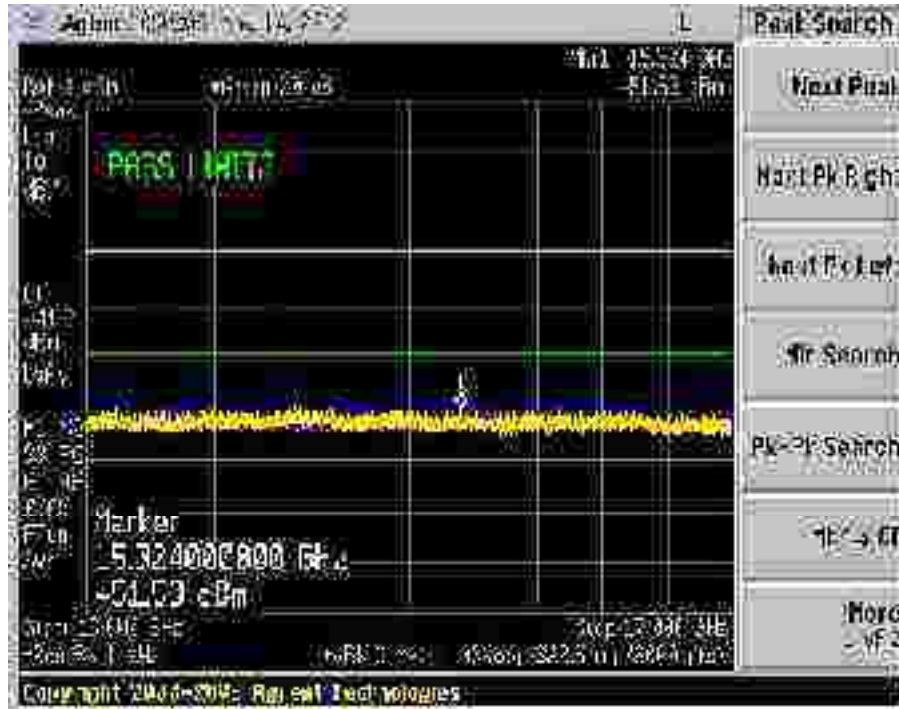


Plot 350 – Channel 1 (lower ch) @ DQPSK 2Mbps

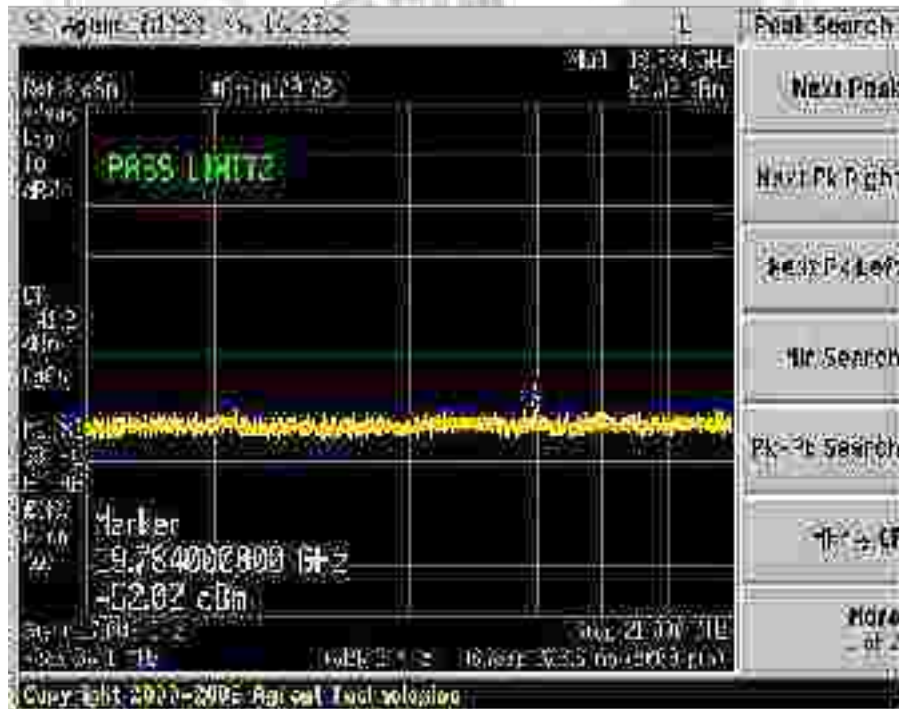


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 351 – Channel 1 (lower ch) @ DQPSK 2Mbps

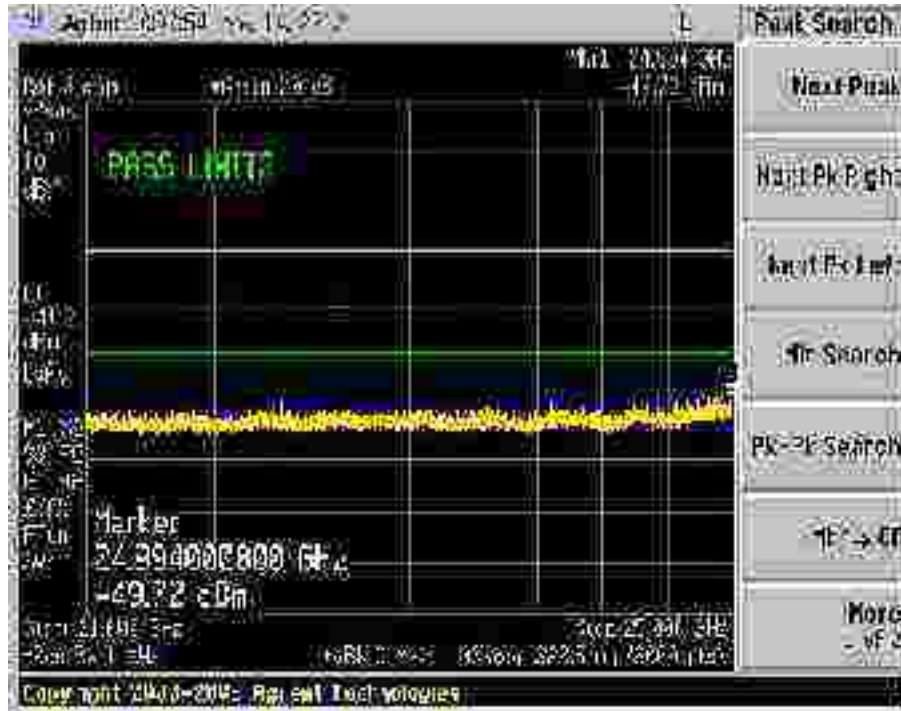


Plot 352 – Channel 1 (lower ch) @ DQPSK 2Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)

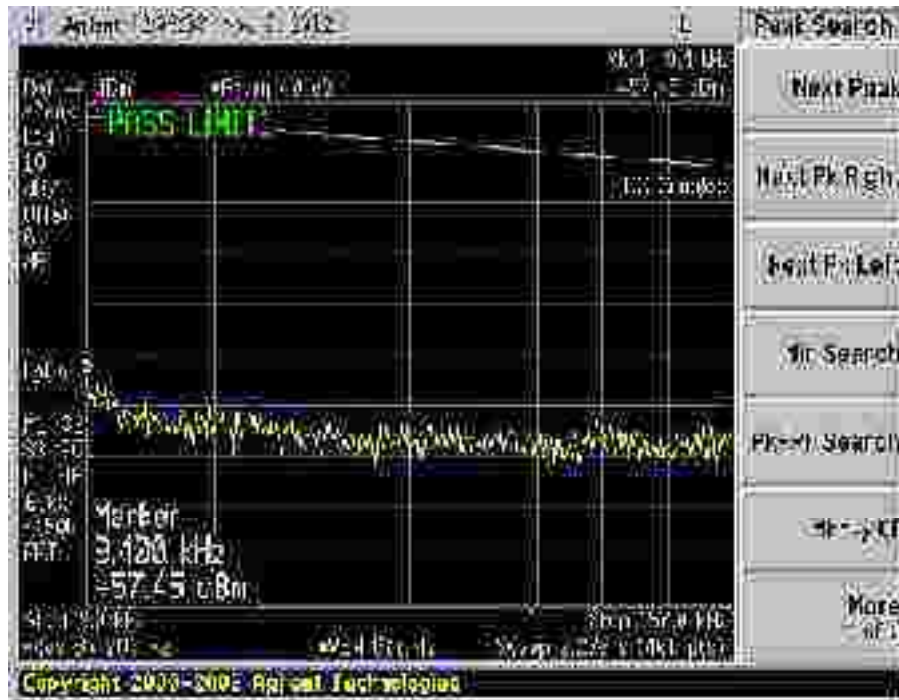


Plot 353 – Channel 1 (lower ch) @ DQPSK 2Mbps

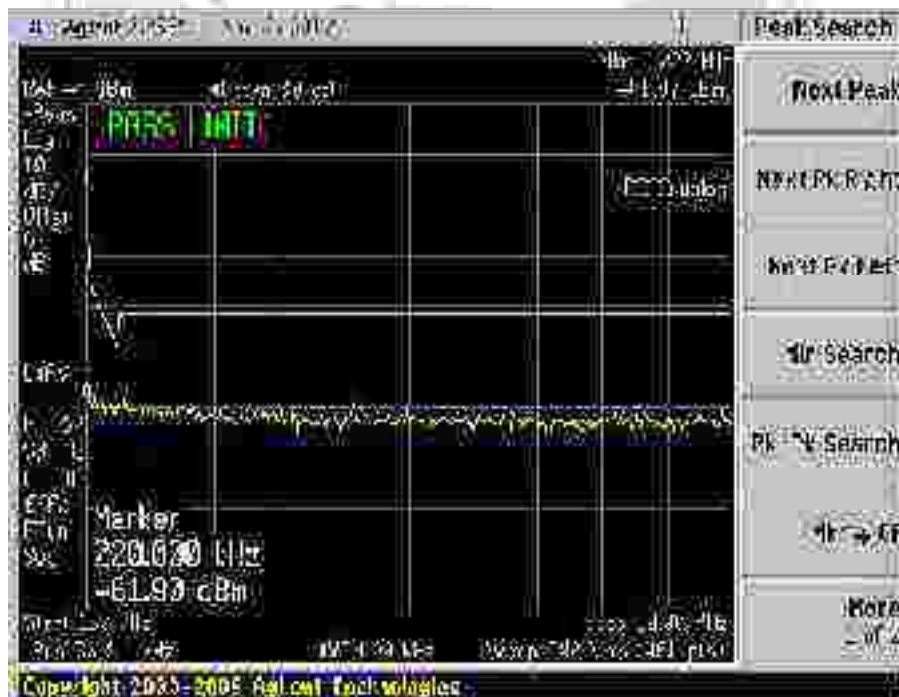


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 354 – Channel 1 (lower ch) @ CCK 11Mbps

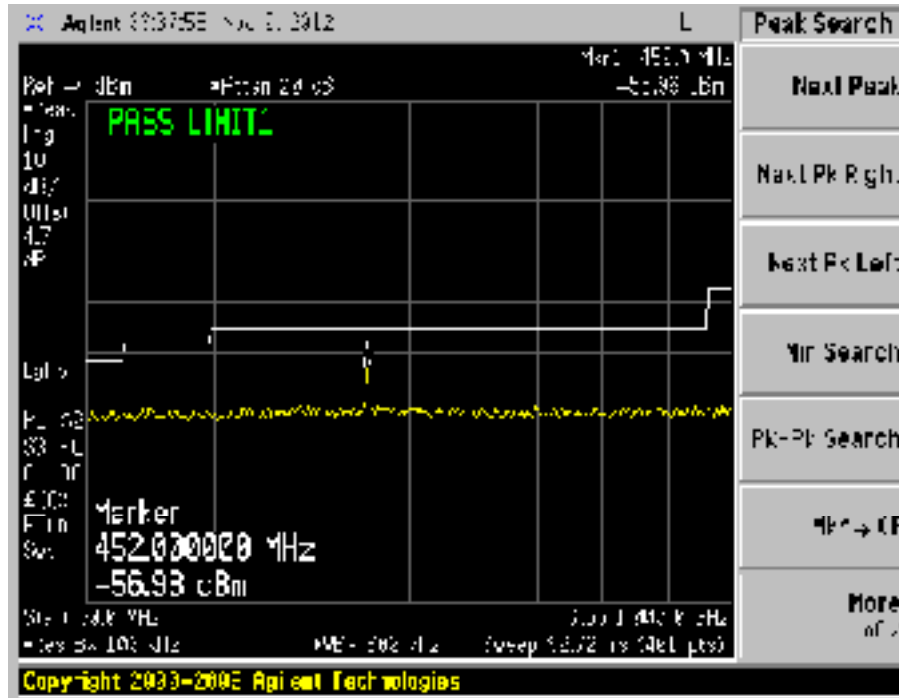


Plot 355 – Channel 1 (lower ch) @ CCK 11Mbps

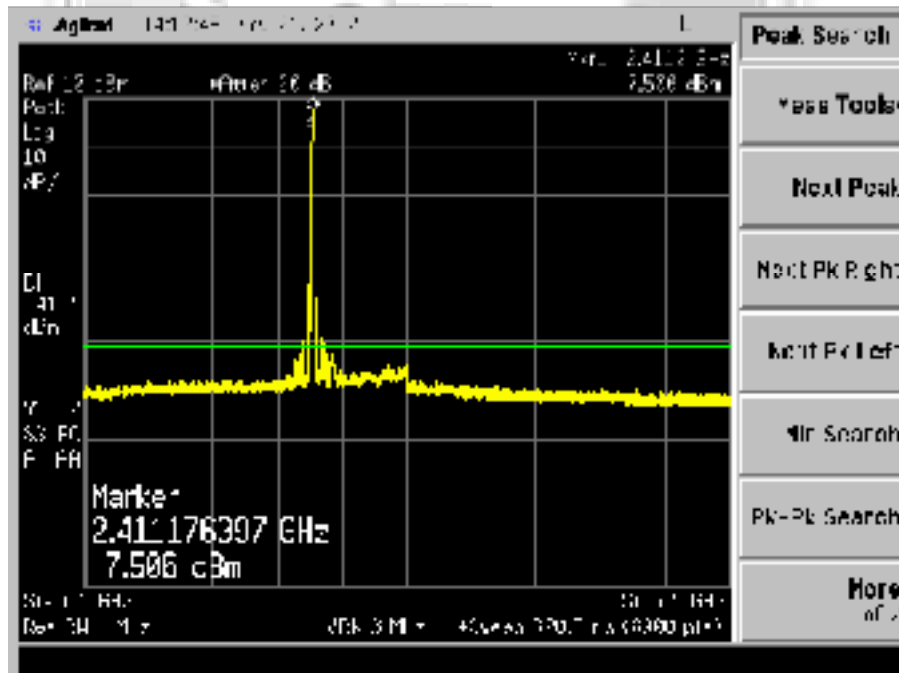


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 356 – Channel 1 (lower ch) @ CCK 11Mbps

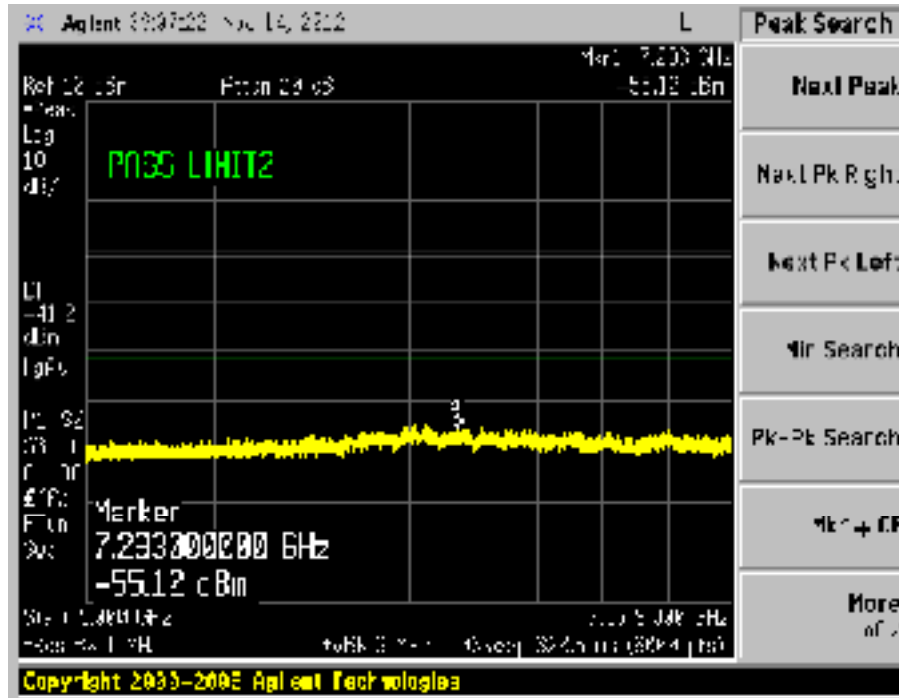


Plot 357 – Channel 1 (lower ch) @ CCK 11Mbps

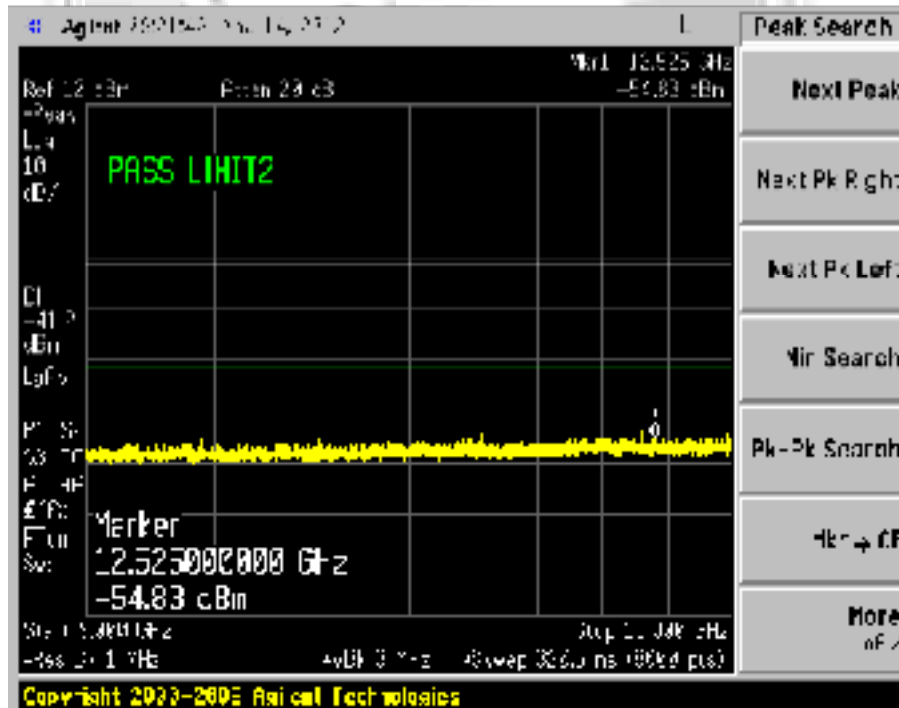


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 358 – Channel 1 (lower ch) @ CCK 11Mbps

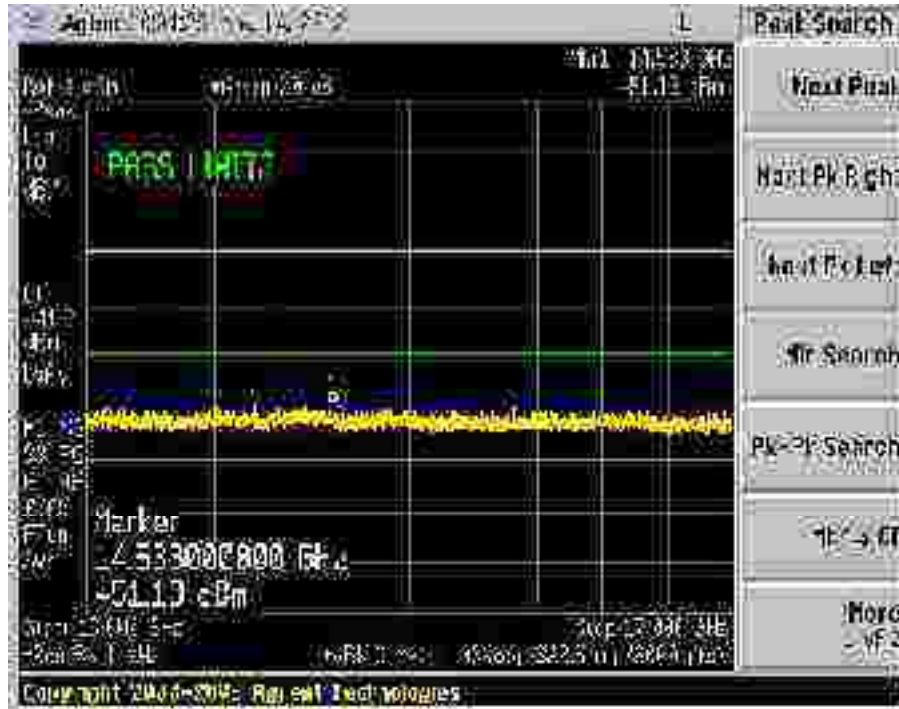


Plot 359 – Channel 1 (lower ch) @ CCK 11Mbps

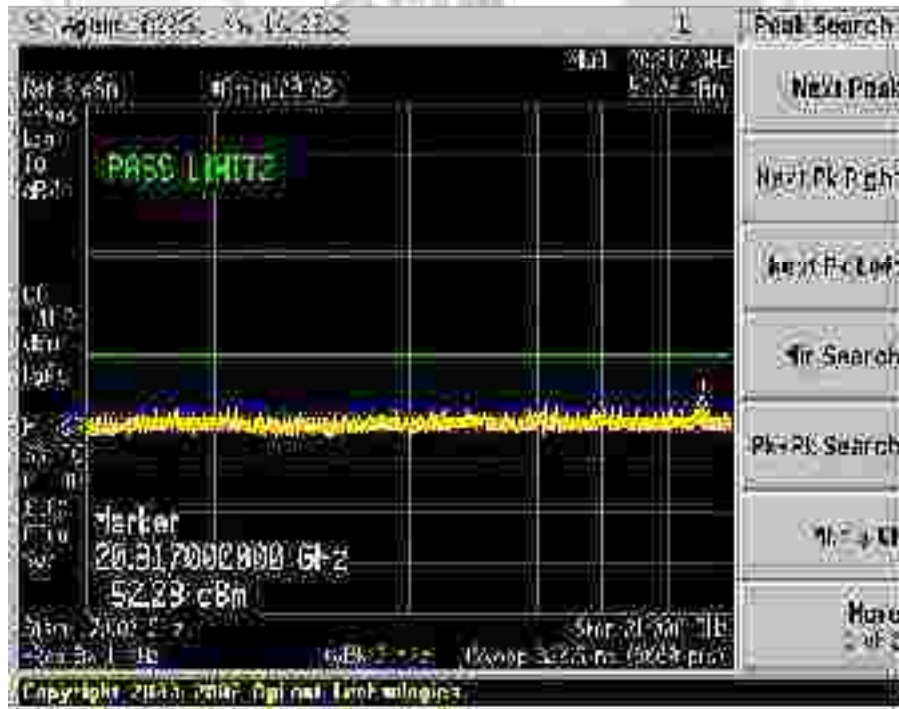


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 360 – Channel 1 (lower ch) @ CCK 11Mbps

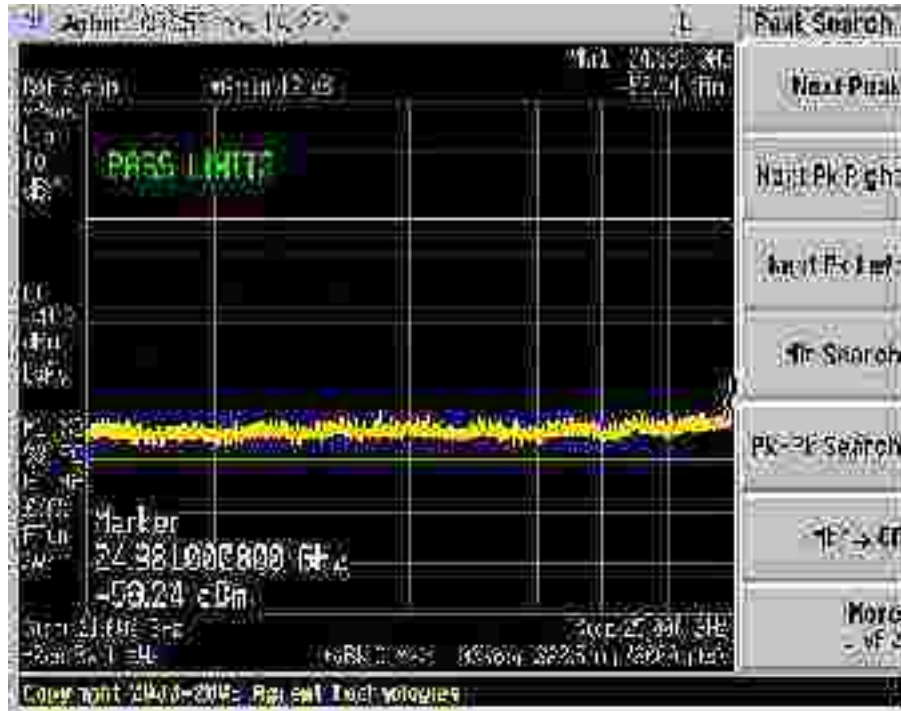


Plot 361 – Channel 1 (lower ch) @ CCK 11Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)

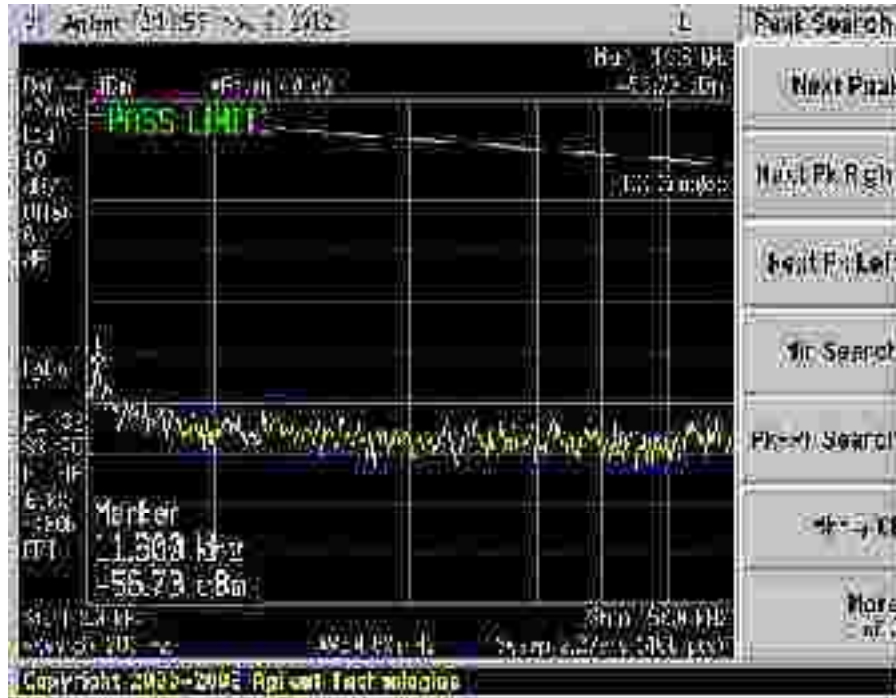


Plot 362 – Channel 1 (lower ch) @ CCK 11Mbps

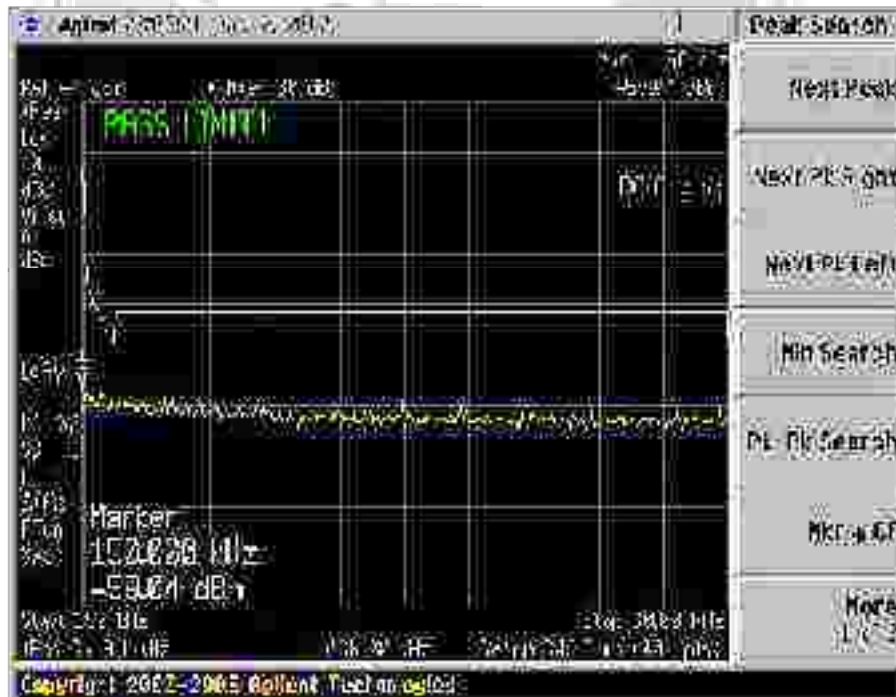


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 363– Channel 1 (lower ch) @ BPSK 9Mbps

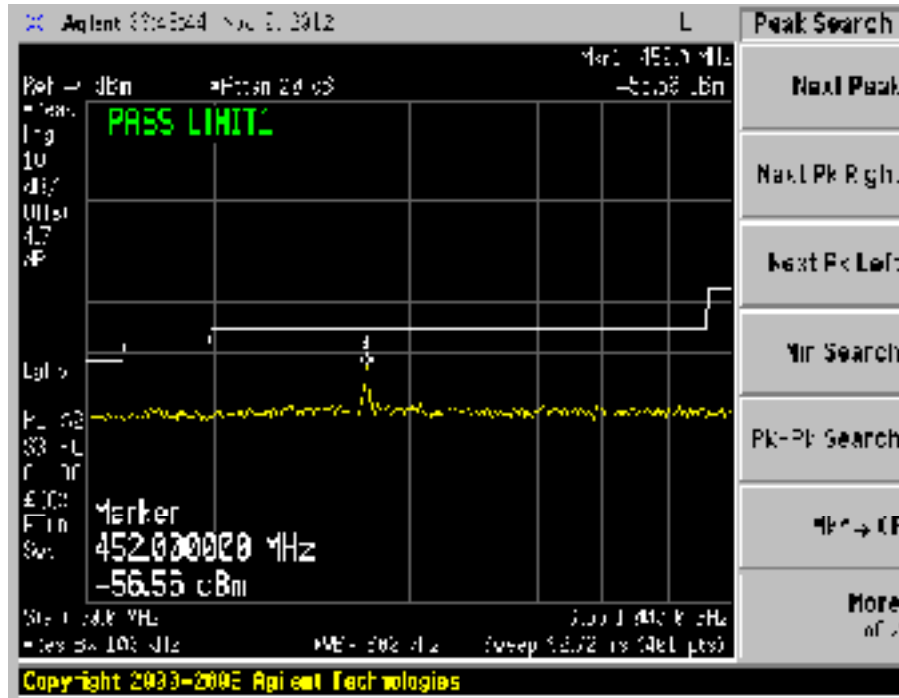


Plot 364– Channel 1 (lower ch) @ BPSK 9Mbps

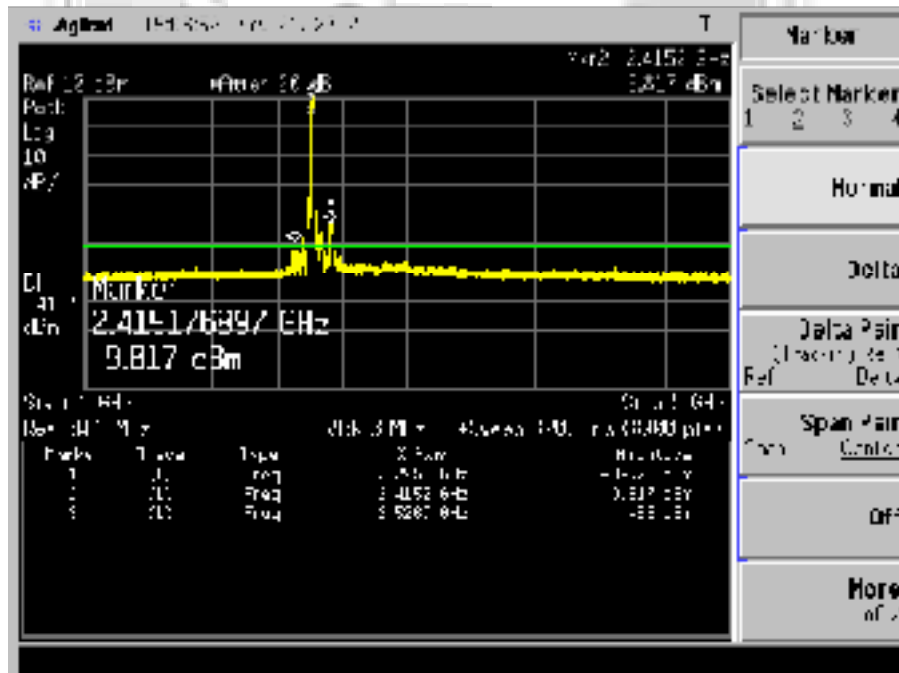


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 365– Channel 1 (lower ch) @ BPSK 9Mbps

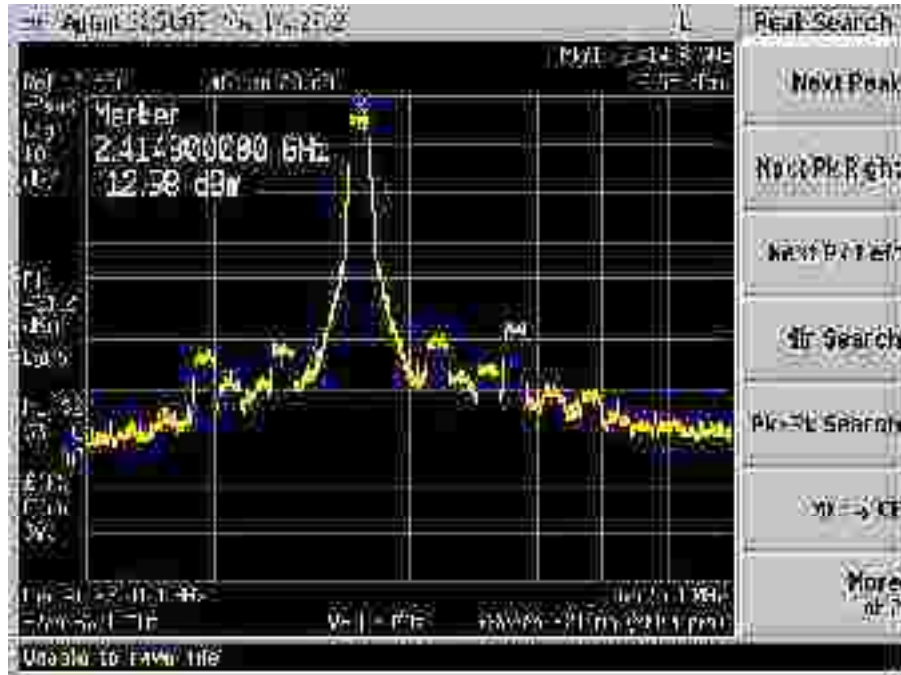


Plot 366– Channel 1 (lower ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 367 – Channel 1 (lower ch) @ BPSK 9Mbps

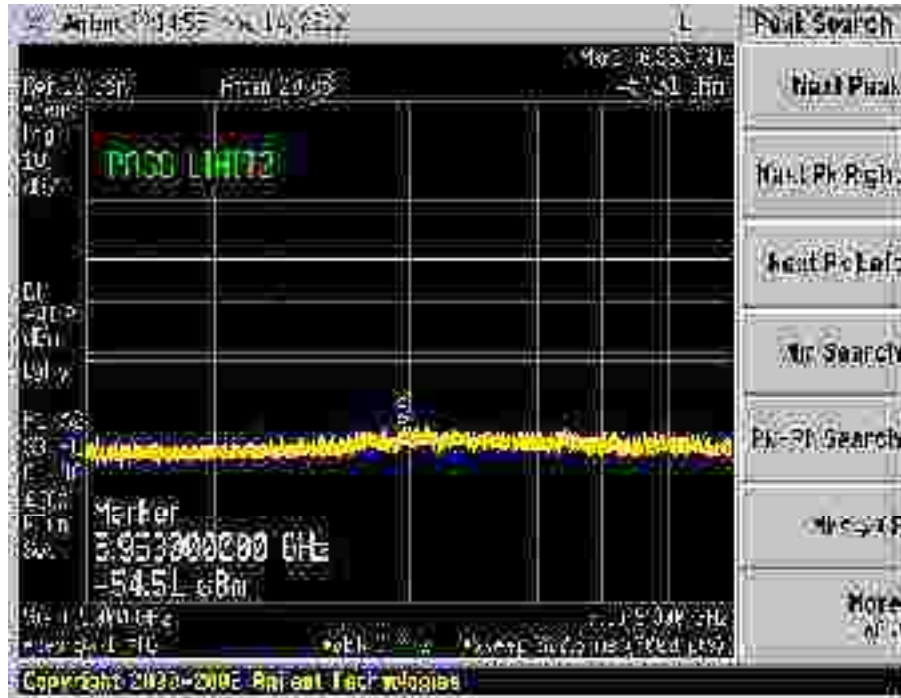


Plot 368 – Channel 1 (lower ch) @ BPSK 9Mbps

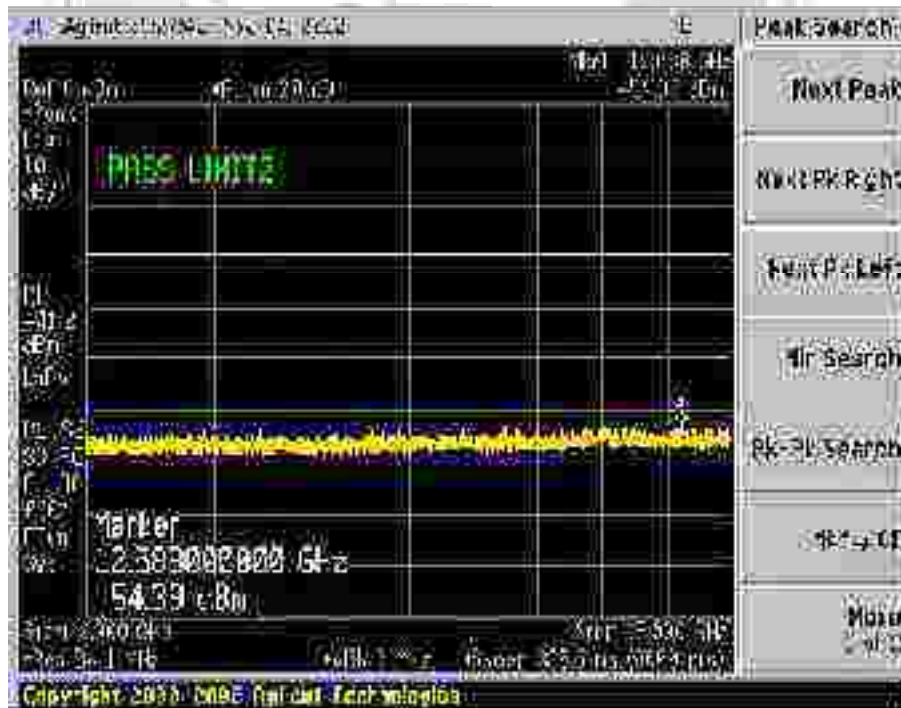


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 369 – Channel 1 (lower ch) @ BPSK 9Mbps

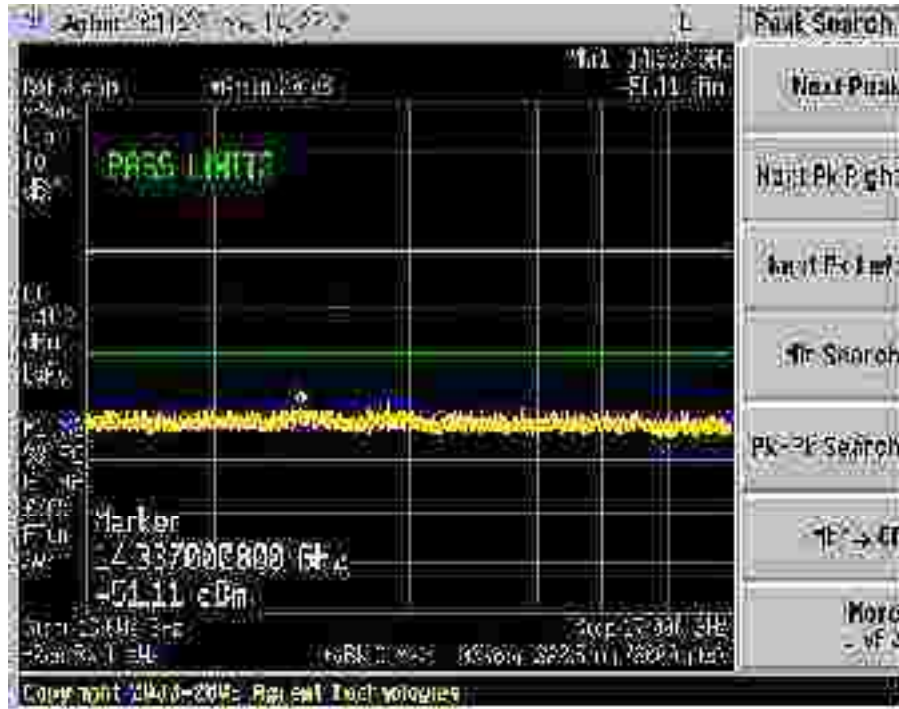


Plot 370 – Channel 1 (lower ch) @ BPSK 9Mbps

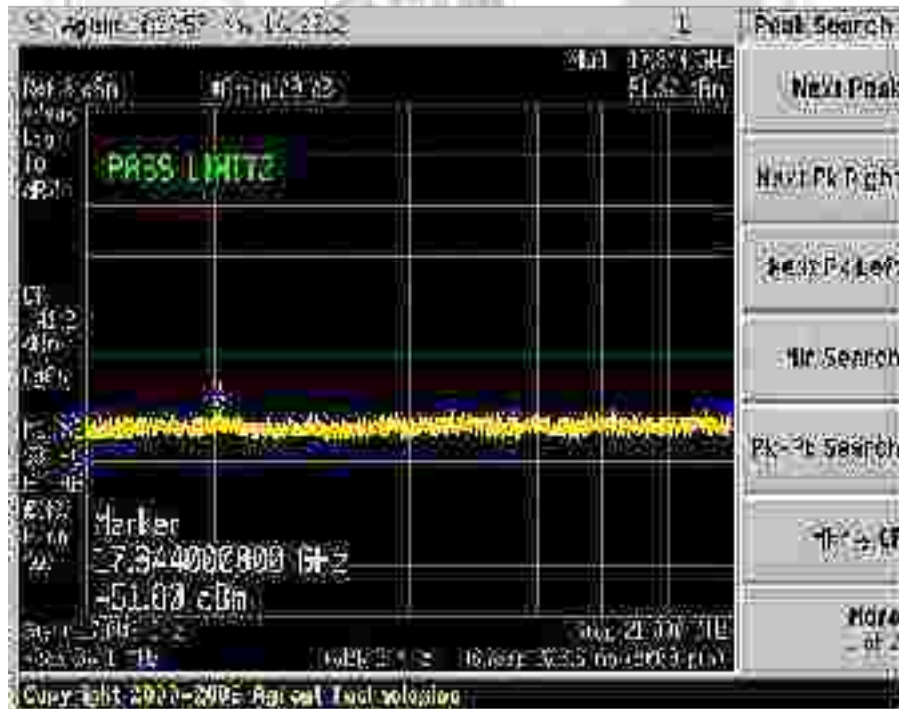


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 371 – Channel 1 (lower ch) @ BPSK 9Mbps

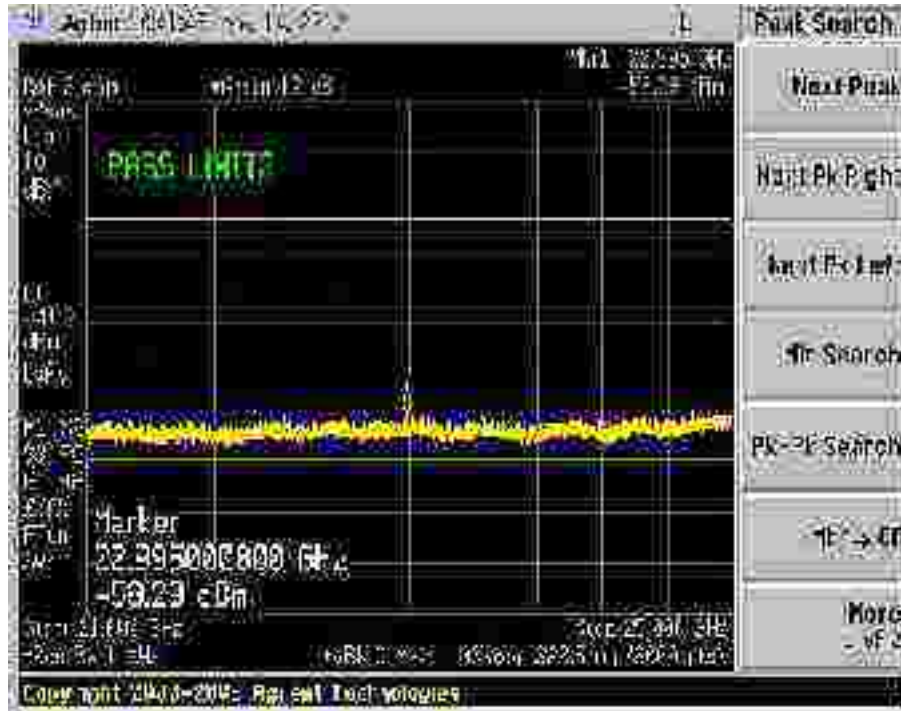


Plot 372 – Channel 1 (lower ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)

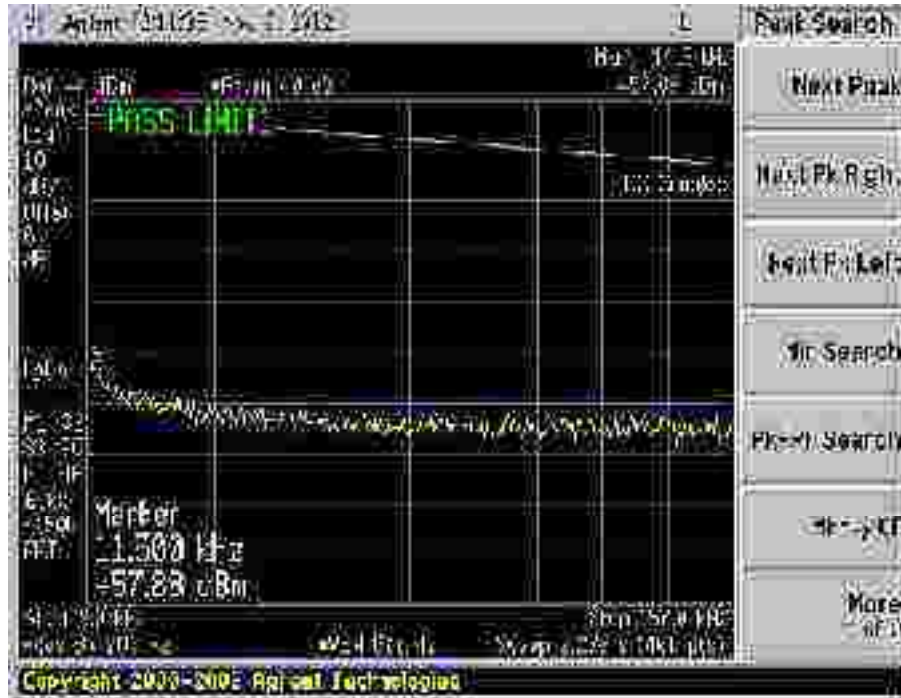


Plot 373 – Channel 1 (lower ch) @ BPSK 9Mbps

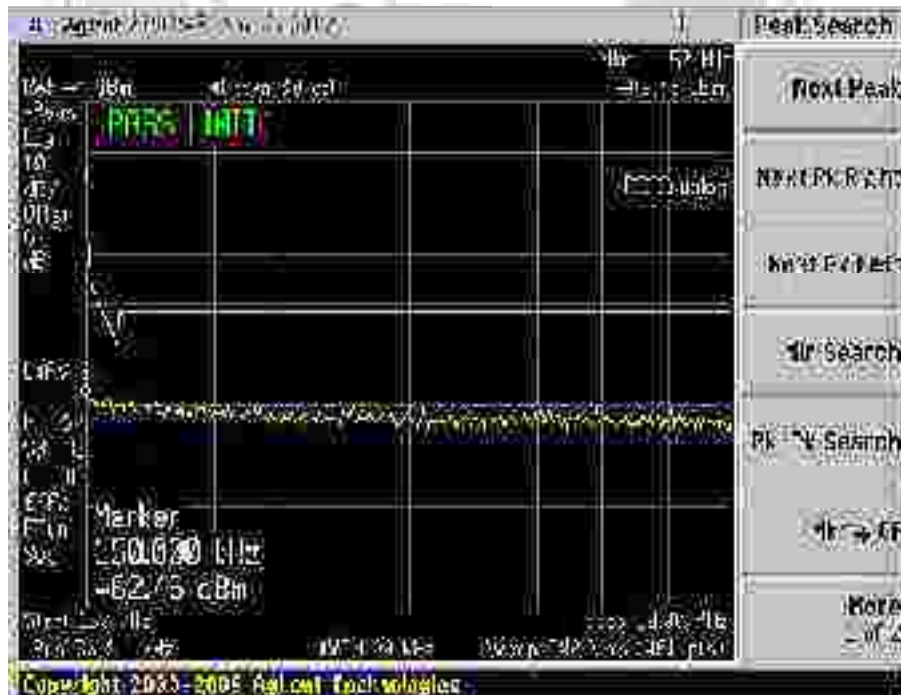


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 374 – Channel 1 (lower ch) @ QPSK 18Mbps

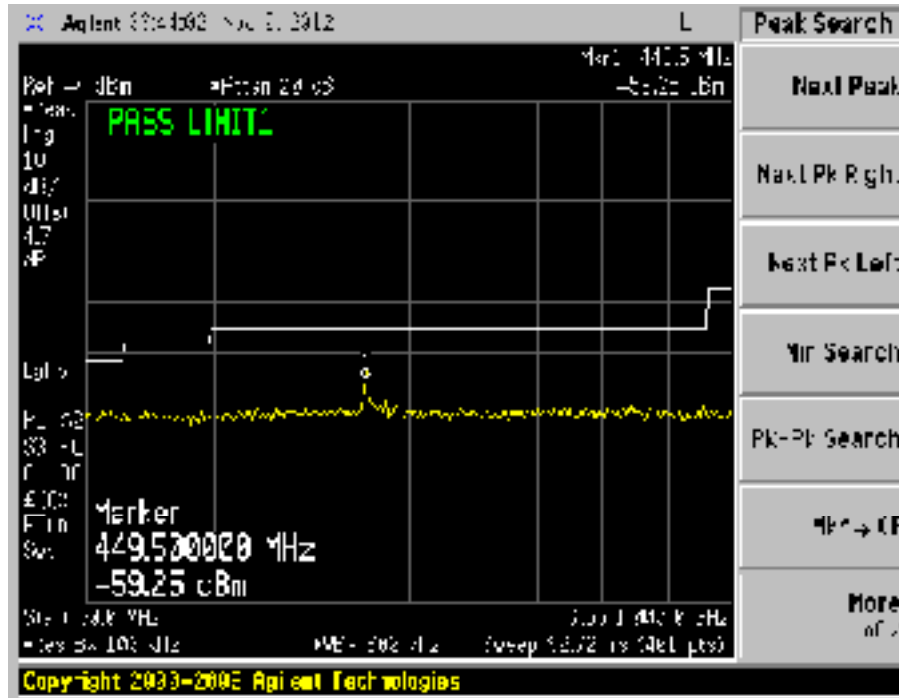


Plot 375 – Channel 1 (lower ch) @ QPSK 18Mbps

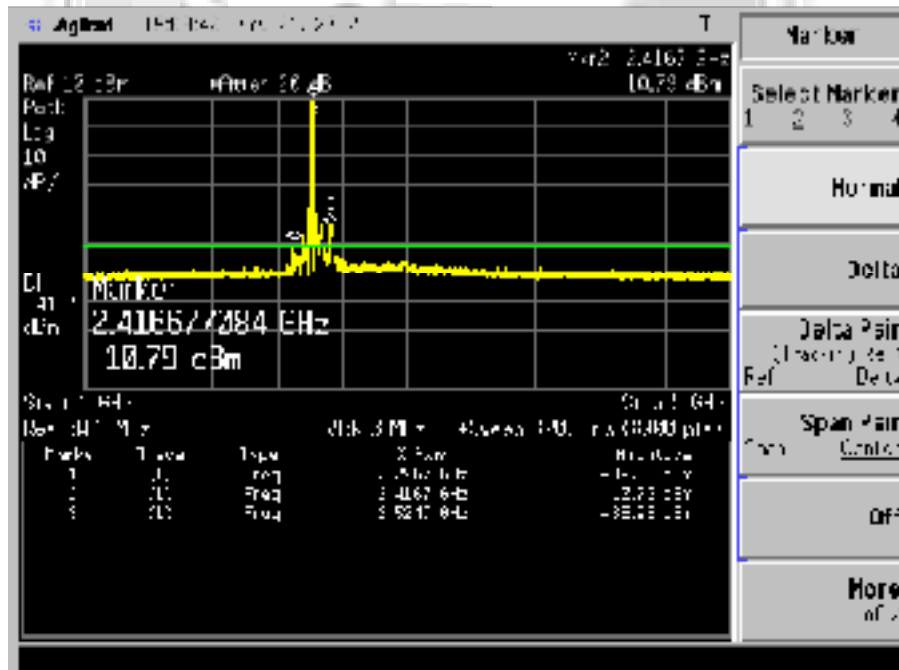


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 376 – Channel 1 (lower ch) @ QPSK 18Mbps

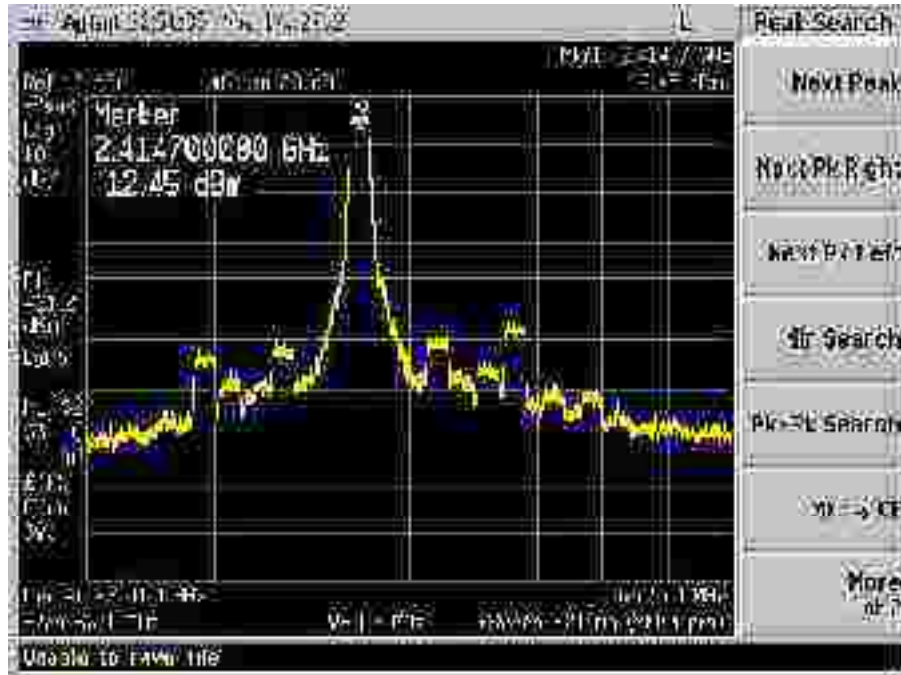


Plot 377 – Channel 1 (lower ch) @ QPSK 18Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 378– Channel 1 (lower ch) @ QPSK 18Mbps



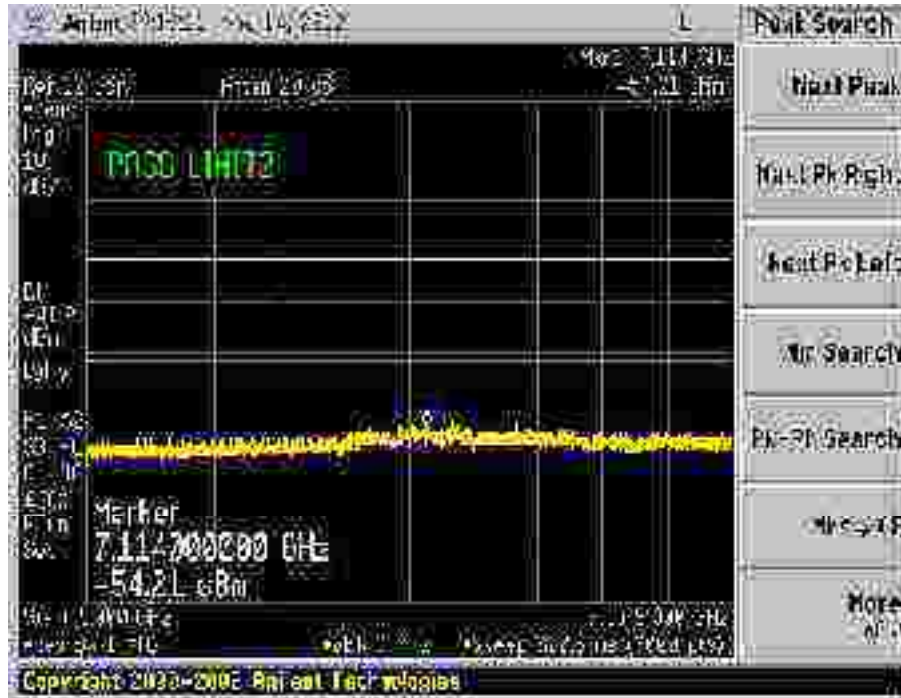
Plot 379– Channel 1 (lower ch) @ QPSK 18Mbps

****Note: 2.5202GHz falls outside the restricted band (2.4835-2.5GHz & 2.69-2.9GHz) and the limit is -16.06dBm.**

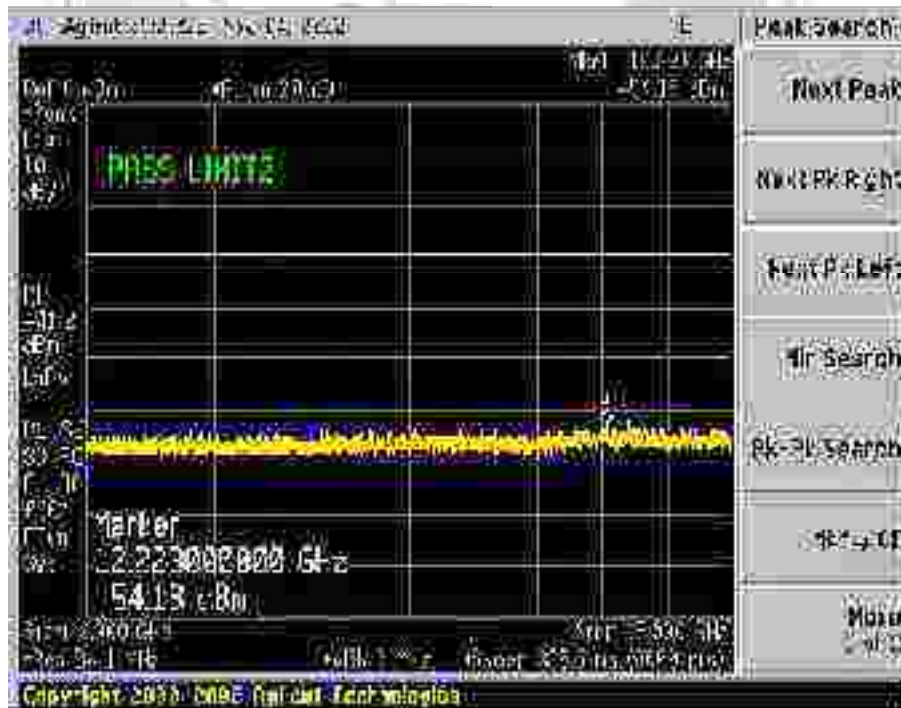


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 380 – Channel 1 (lower ch) @ QPSK 18Mbps

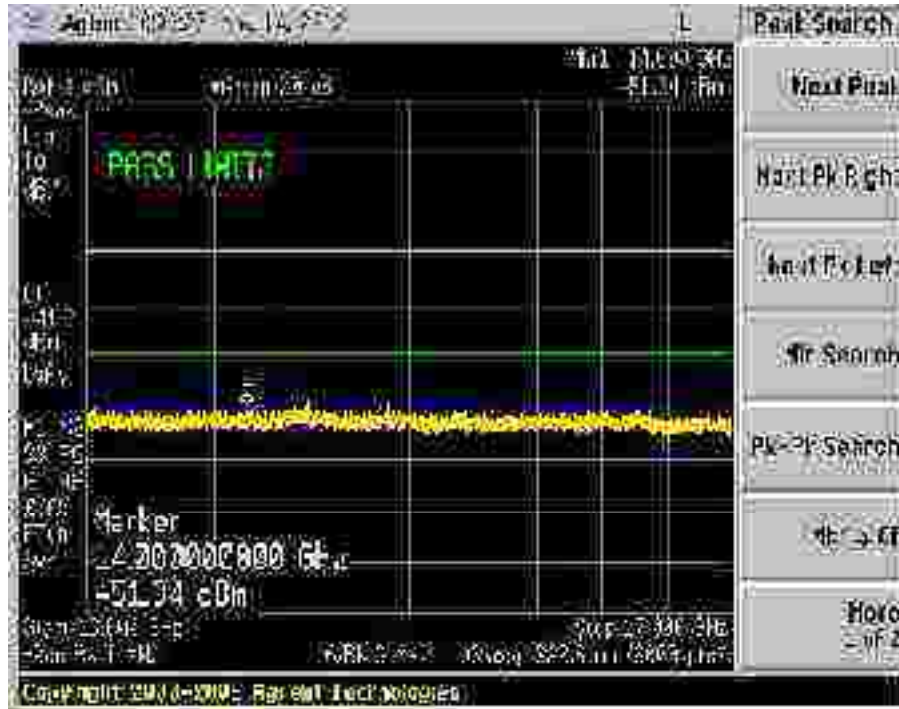


Plot 381 – Channel 1 (lower ch) @ QPSK 18Mbps

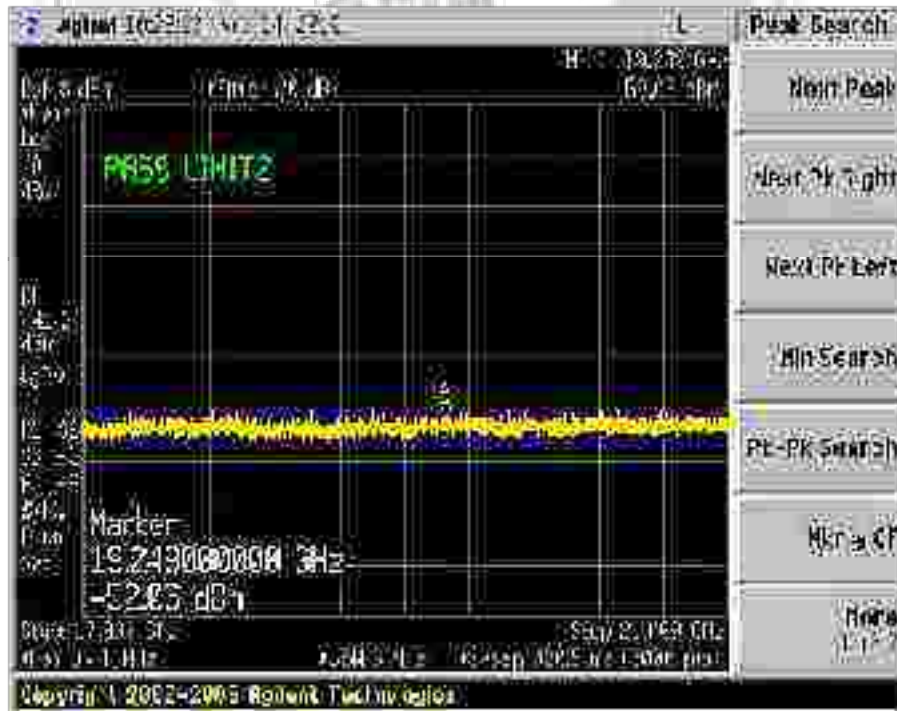


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 382 – Channel 1 (lower ch) @ QPSK 18Mbps

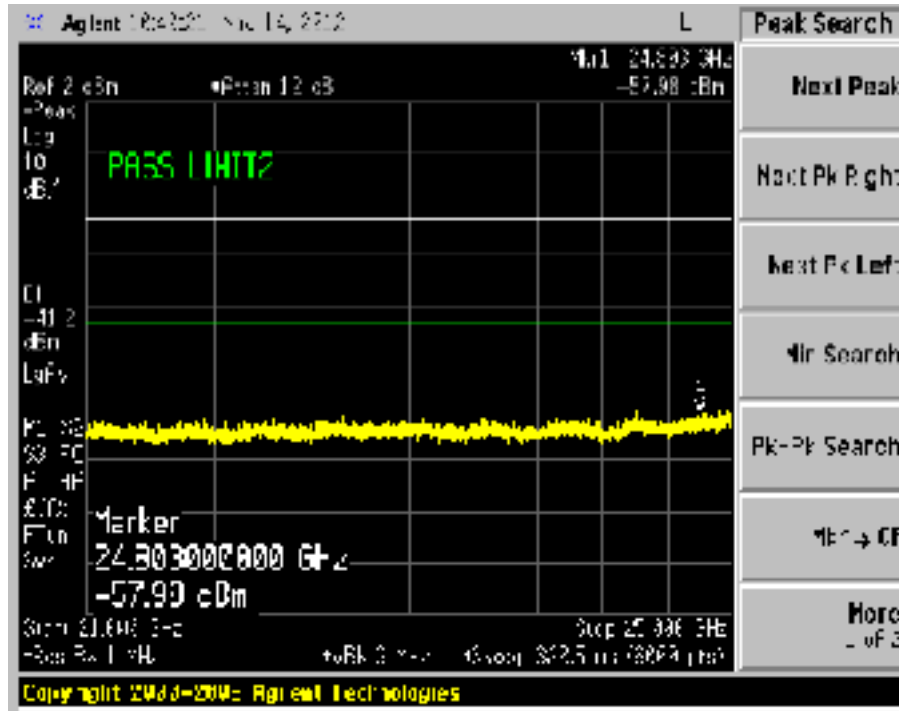


Plot 383 – Channel 1 (lower ch) @ QPSK 18Mbps

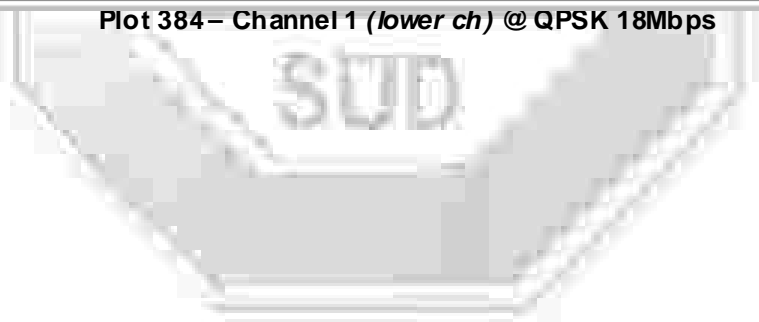


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



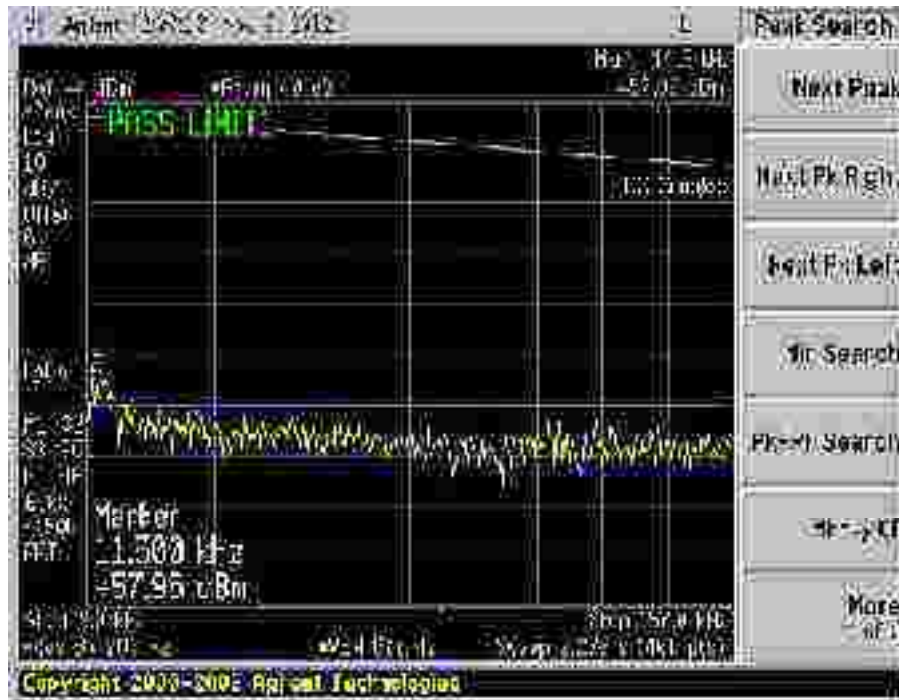
Plot 384 – Channel 1 (lower ch) @ QPSK 18Mbps



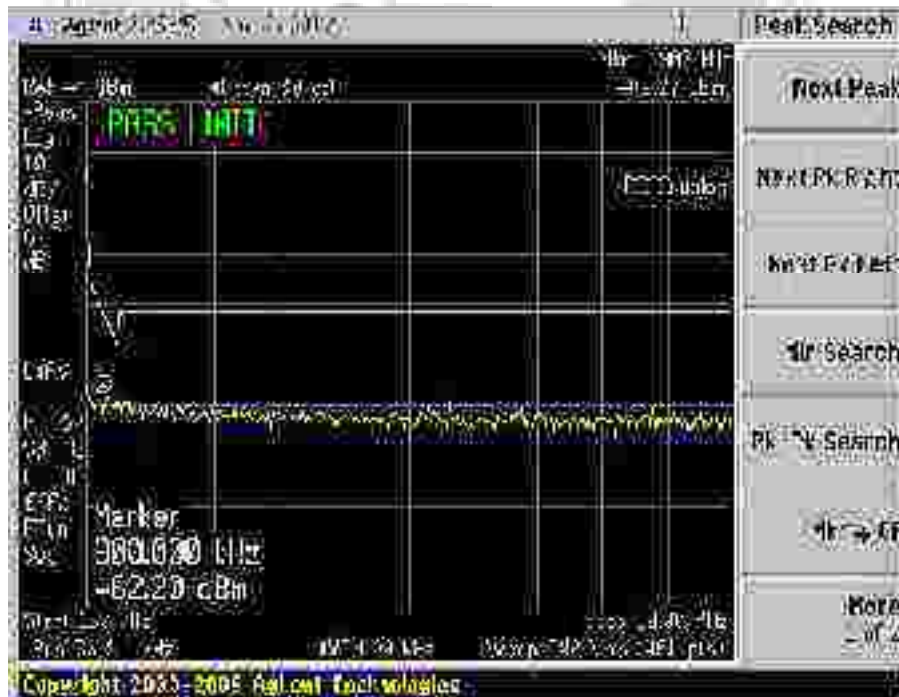


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 385 – Channel 1 (lower ch) @ 16QAM 36Mbps

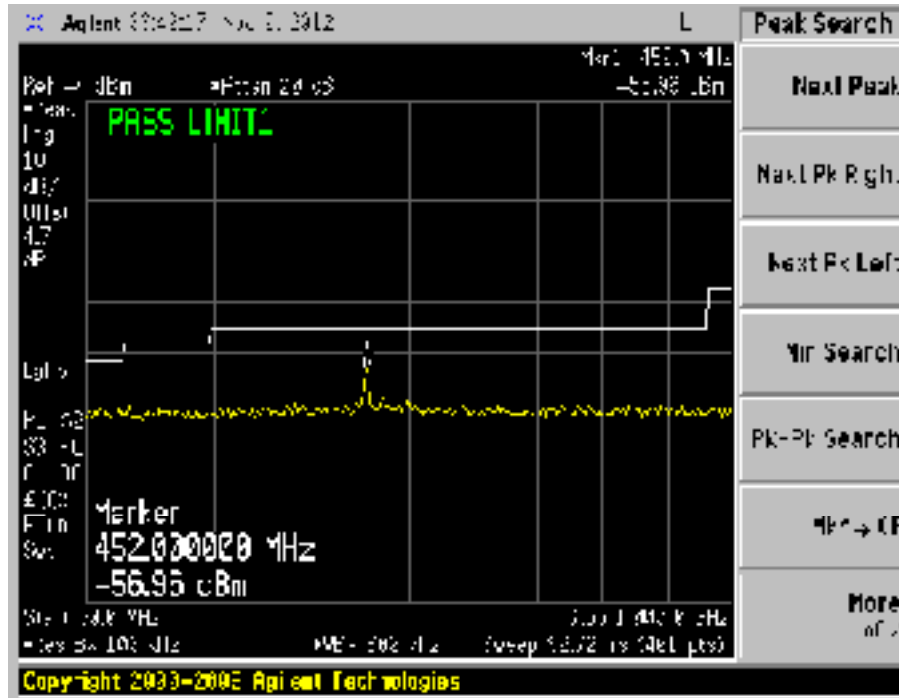


Plot 386 – Channel 1 (lower ch) @ 16QAM 36Mbps

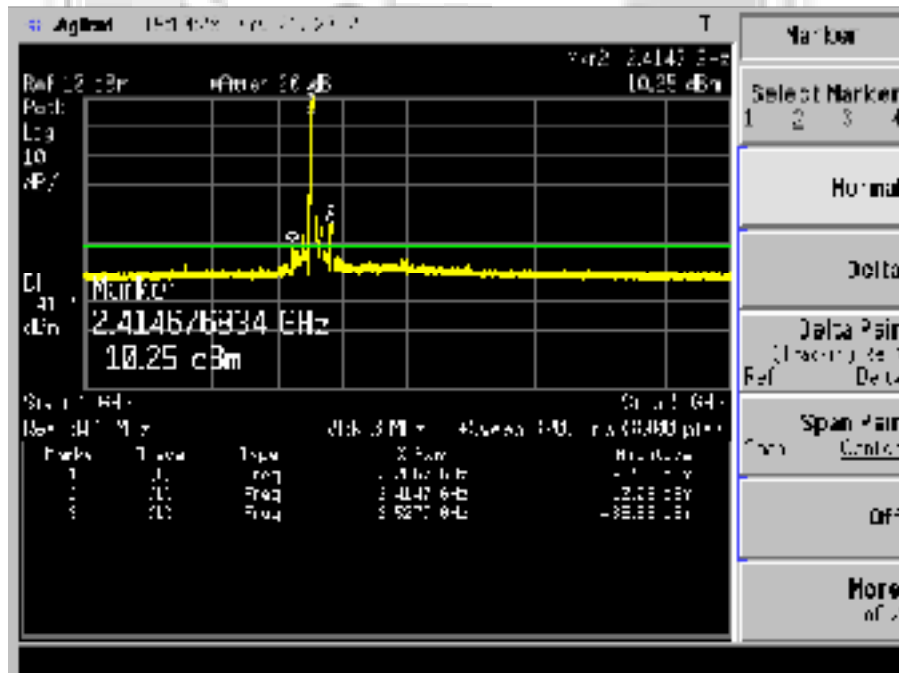


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 387 – Channel 1 (lower ch) @16QAM 36Mbps

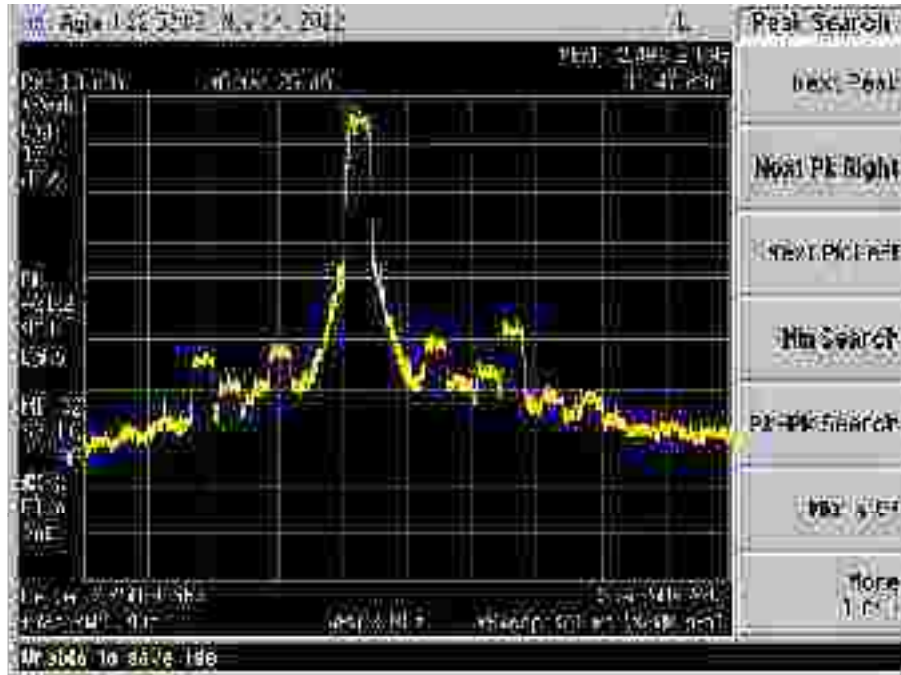


Plot 388 – Channel 1 (lower ch) @16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 389 – Channel 1 (lower ch) @16QAM 36Mbps

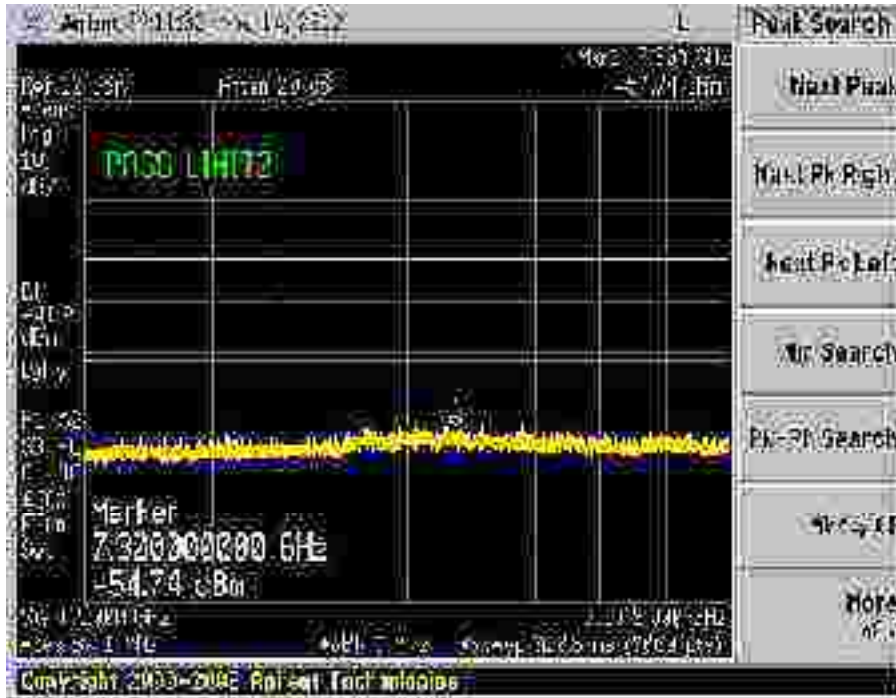


Plot 390 – Channel 1 (lower ch) @16QAM 36Mbps

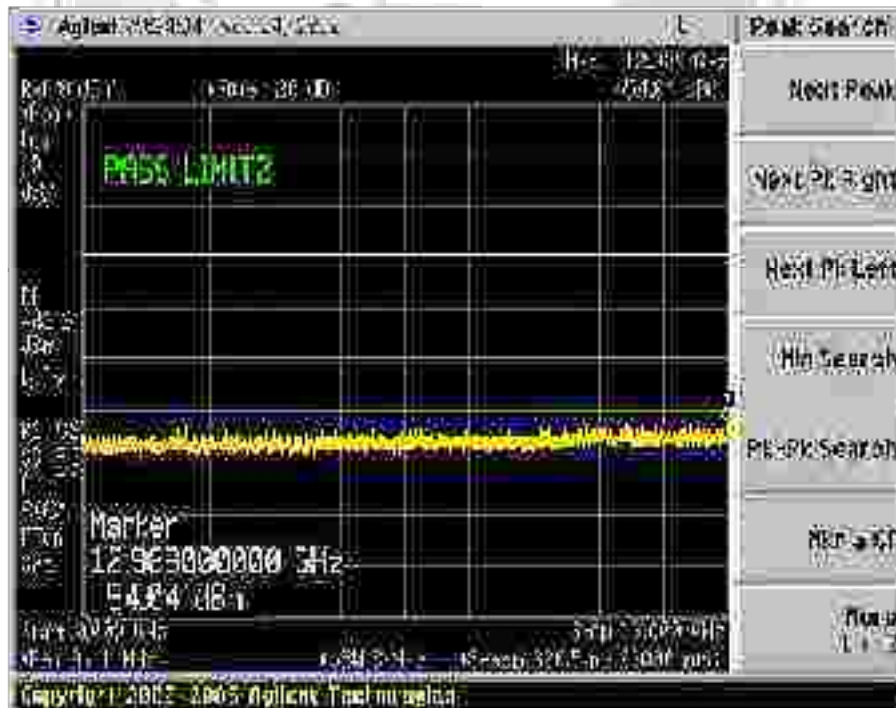


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 391 – Channel 1 (lower ch) @ 16QAM 36Mbps

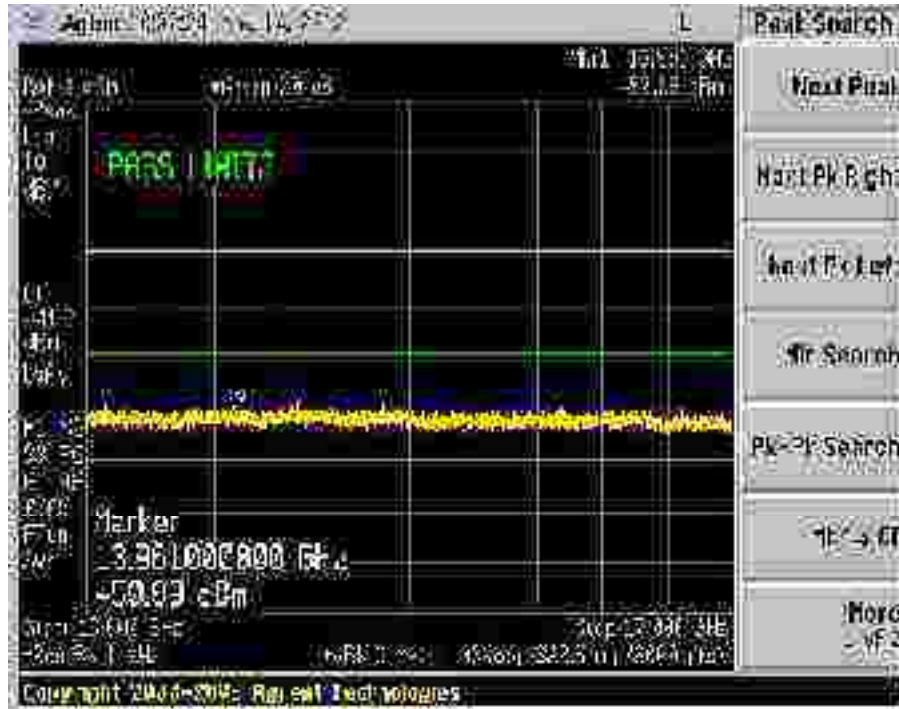


Plot 392 – Channel 1 (lower ch) @ 16QAM 36Mbps

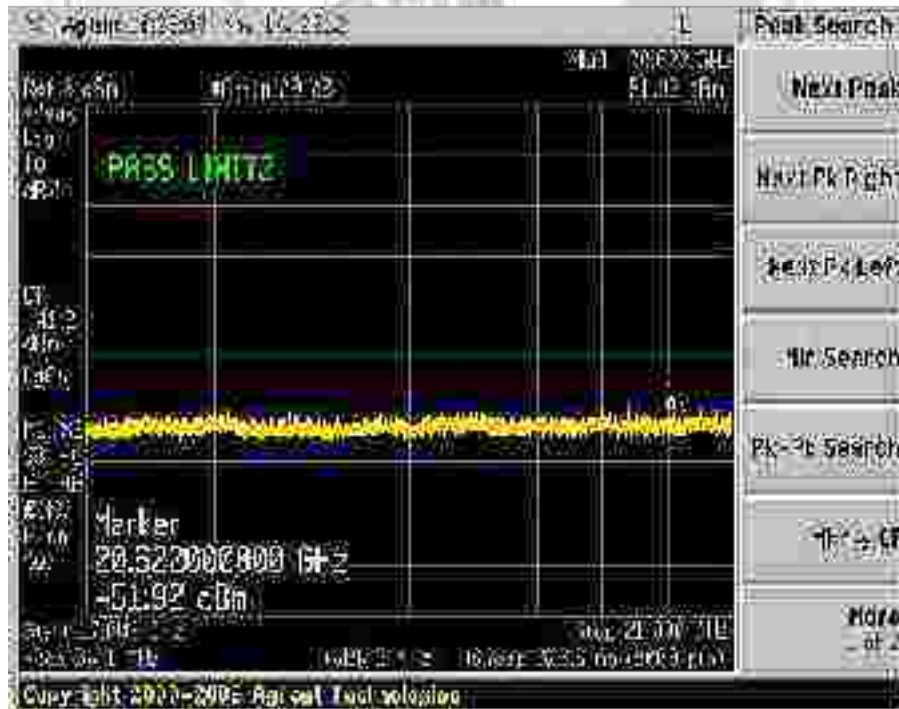


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 393 – Channel 1 (lower ch) @16QAM 36Mbps

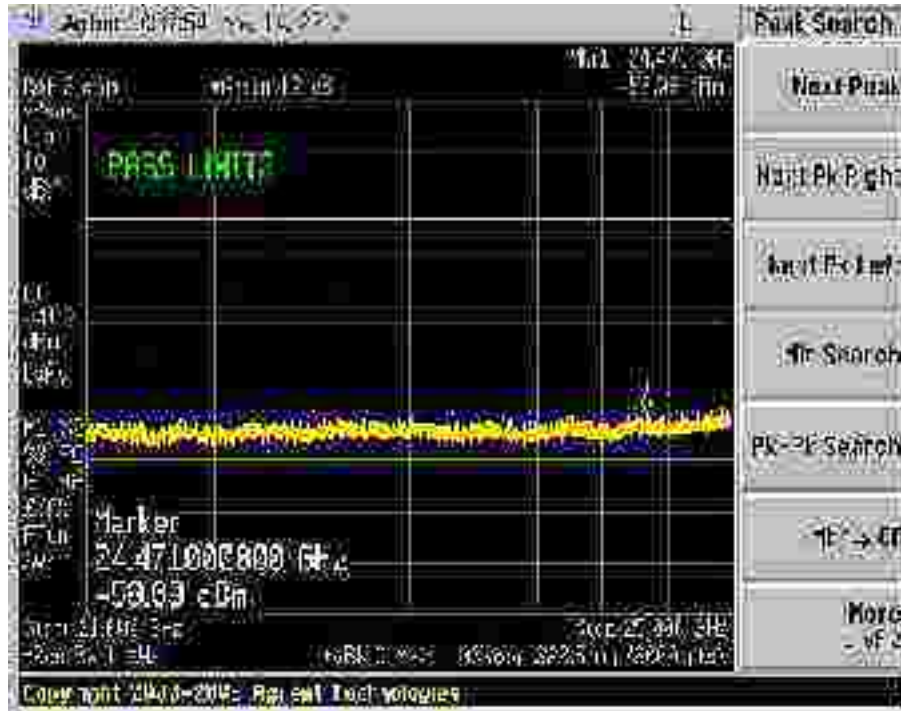


Plot 394 – Channel 1 (lower ch) @16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 395 – Channel 1 (lower ch) @16QAM 36Mbps



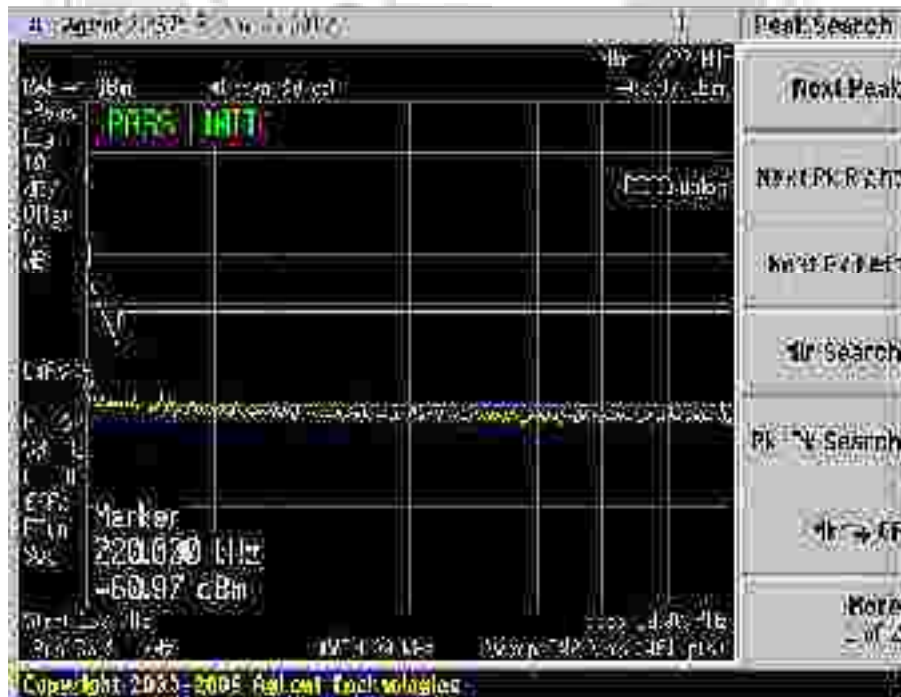


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 396 – Channel 1 (lower ch) @64QAM 54Mbps

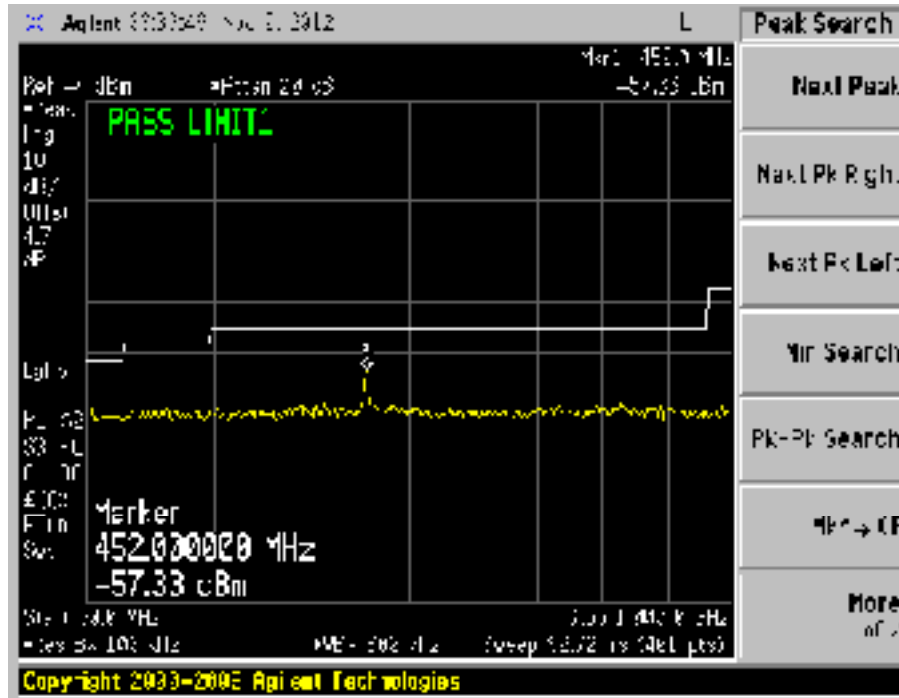


Plot 397 – Channel 1 (lower ch) @64QAM 54Mbps

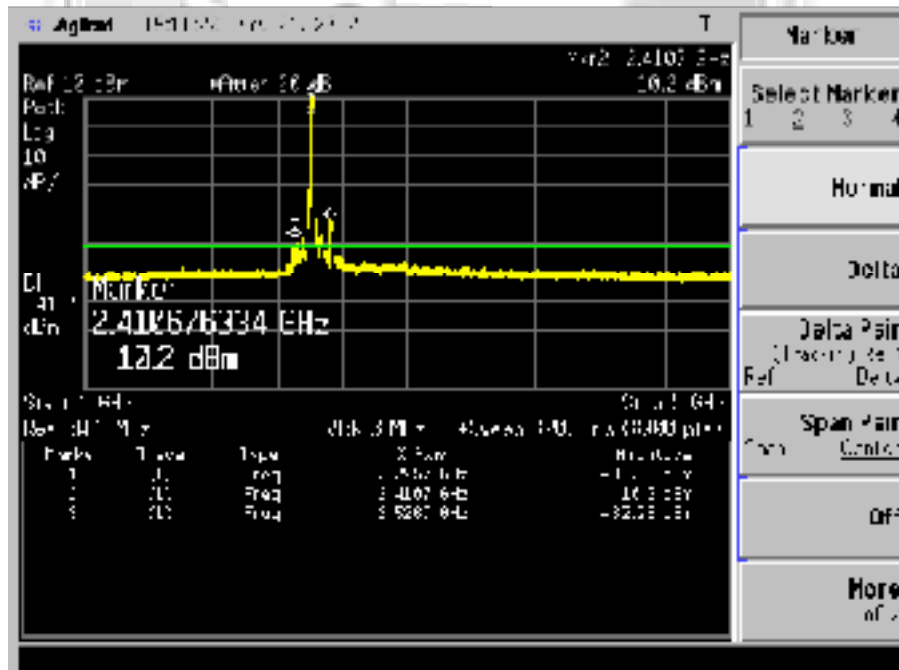


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 398 – Channel 1 (lower ch) @64QAM 54Mbps

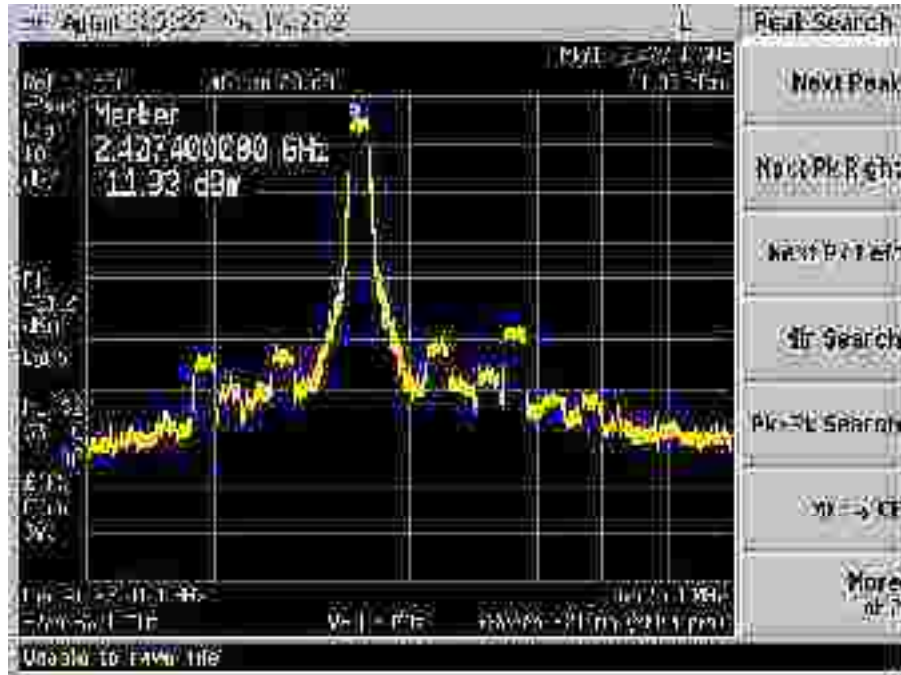


Plot 399 – Channel 1 (lower ch) @64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 400 – Channel 1 (lower ch) @64QAM 54Mbps

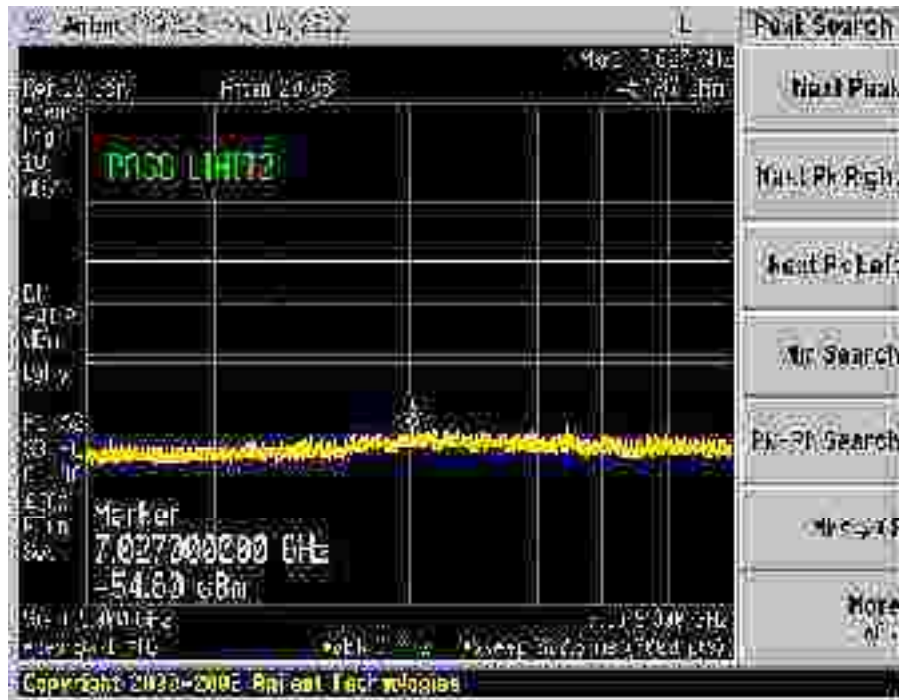


Plot 401 – Channel 1 (lower ch) @64QAM 54Mbps

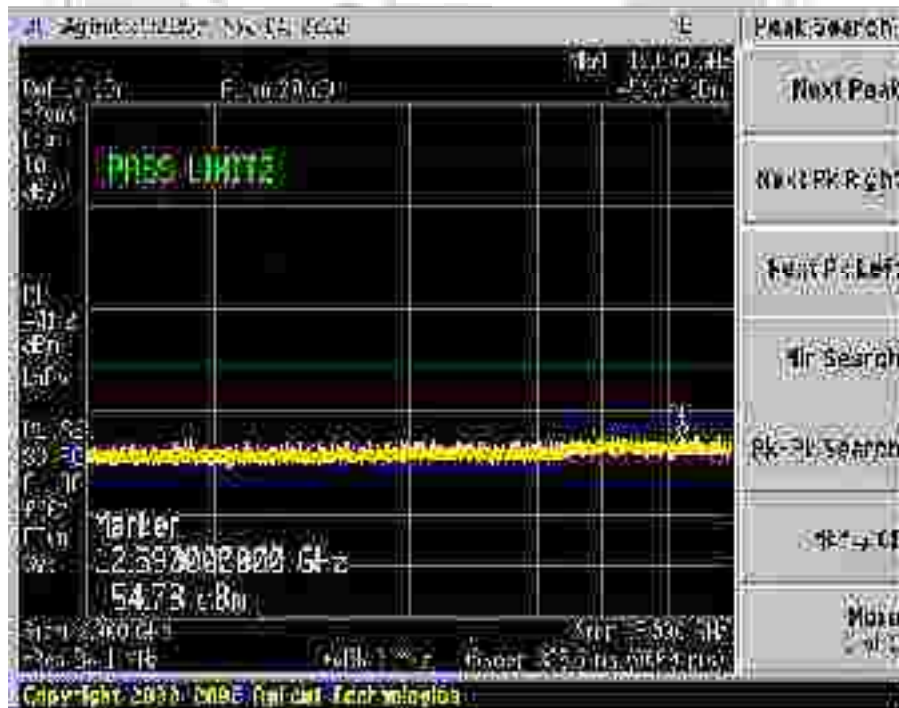


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 402 – Channel 1 (lower ch) @64QAM 54Mbps

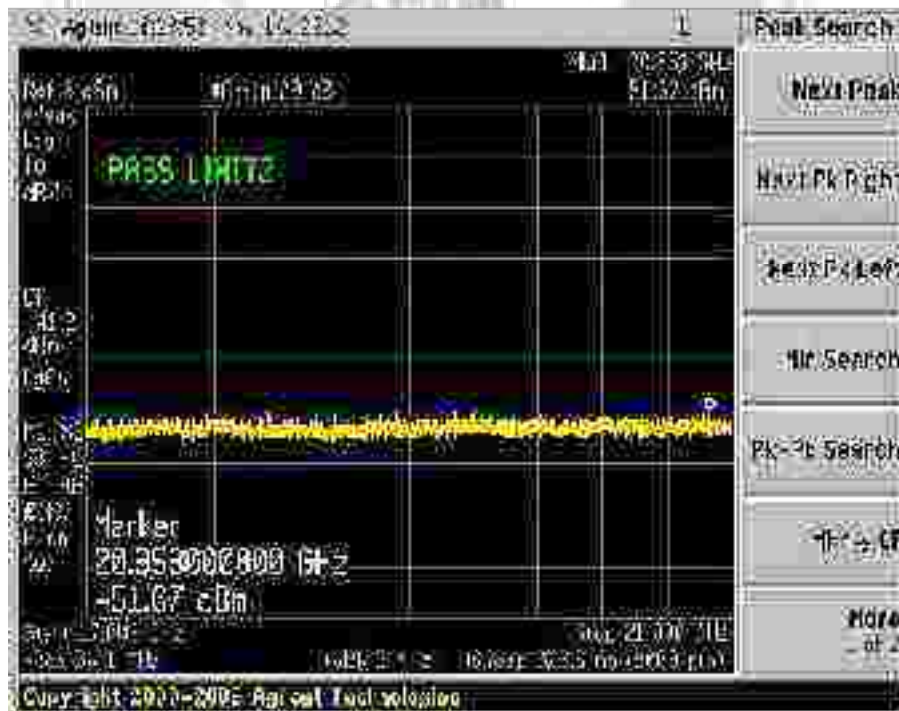
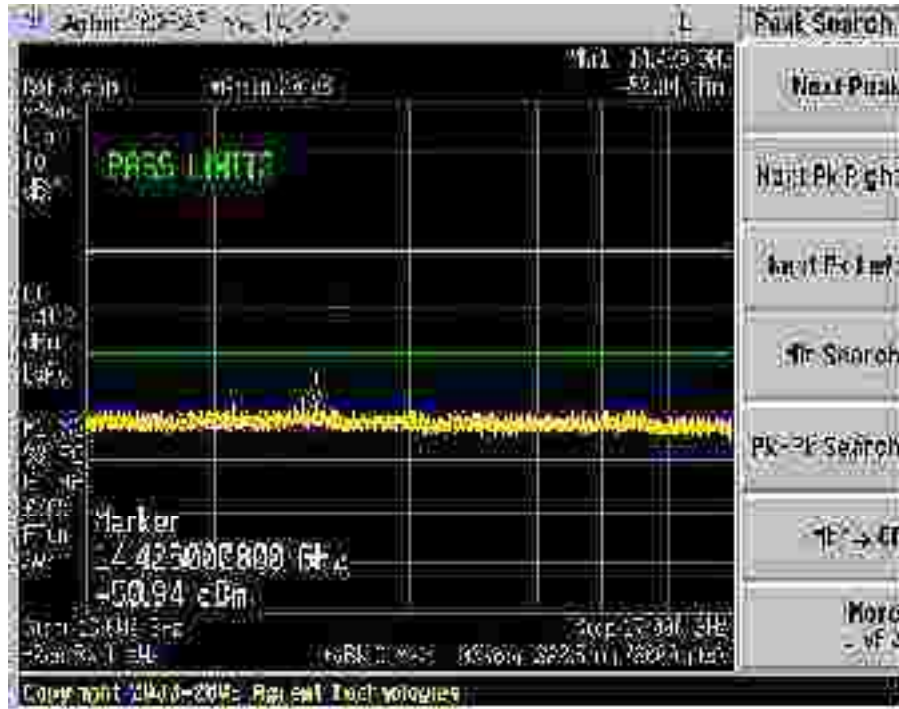


Plot 403 – Channel 1 (lower ch) @64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

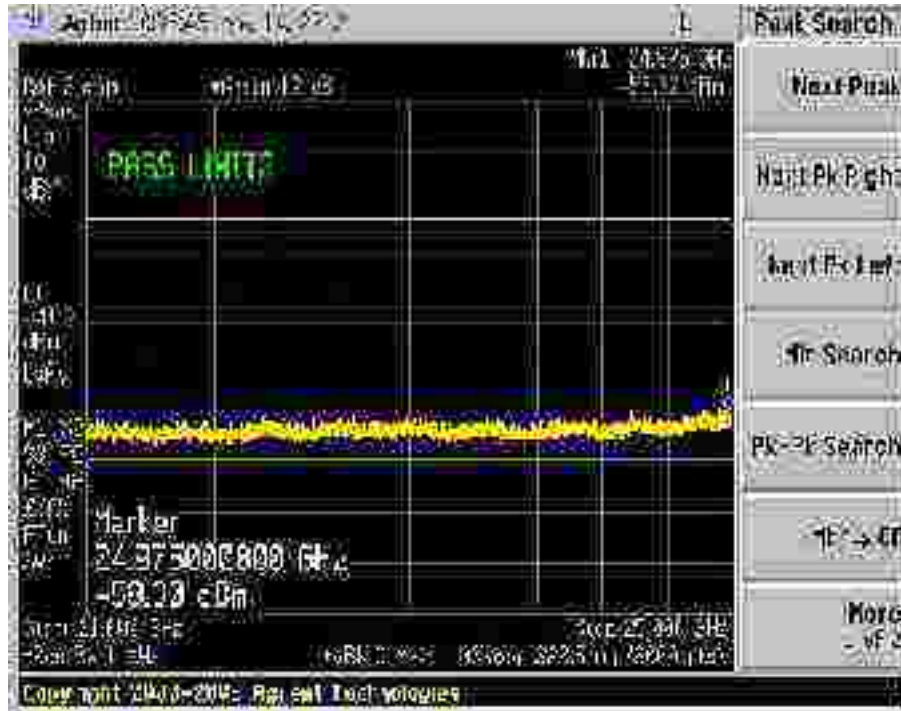
RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



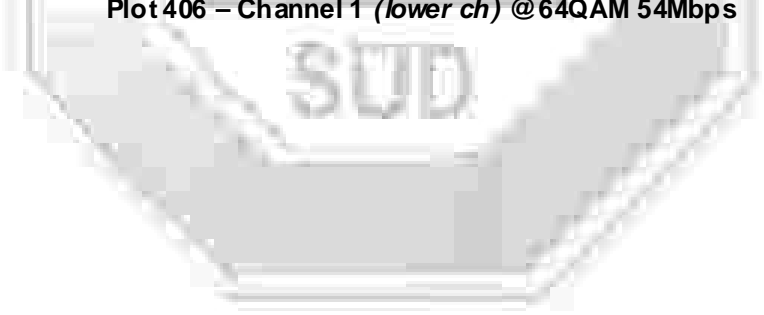


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



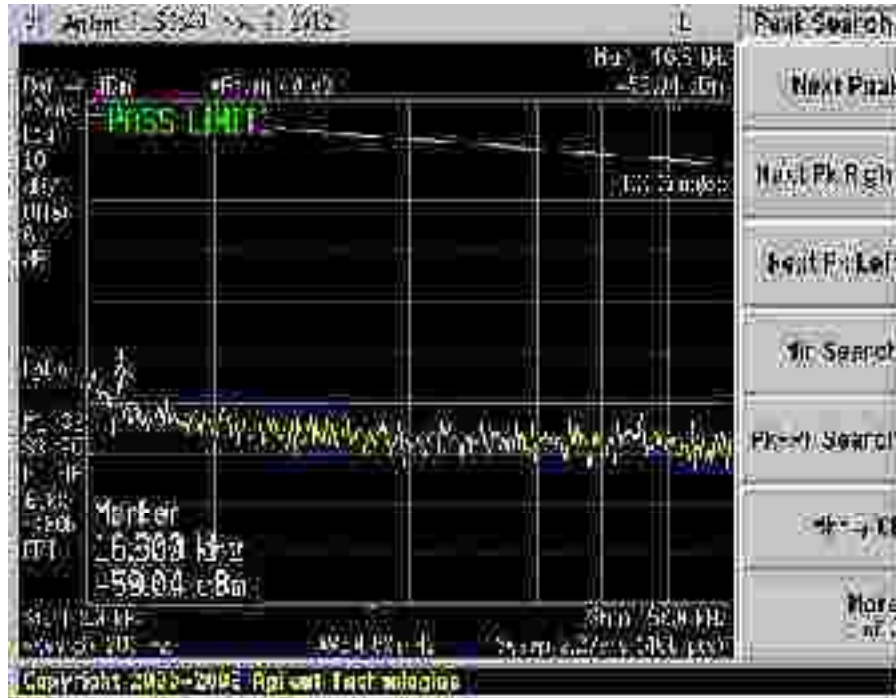
Plot 406 – Channel 1 (lower ch) @64QAM 54Mbps



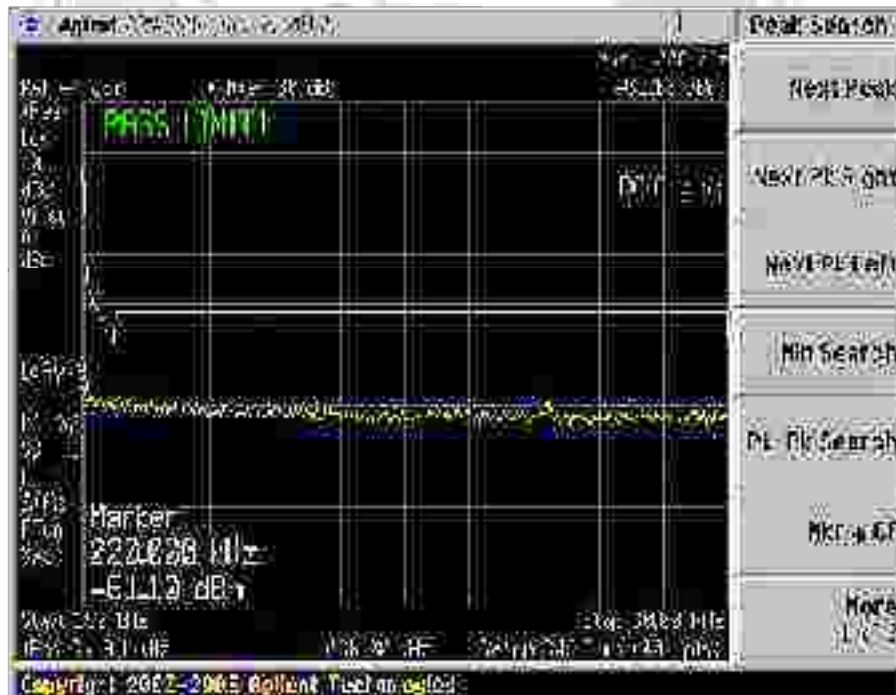


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 407 – Channel 6 (middle ch) @ DBPSK 1Mbps

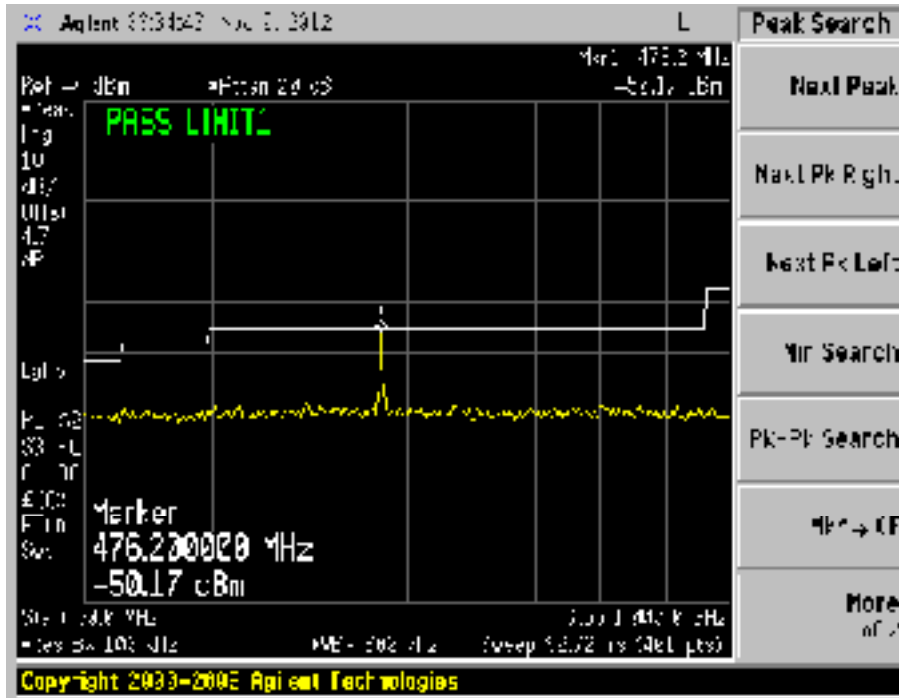


Plot 408 – Channel 6 (middle ch) @ DBPSK 1Mbps

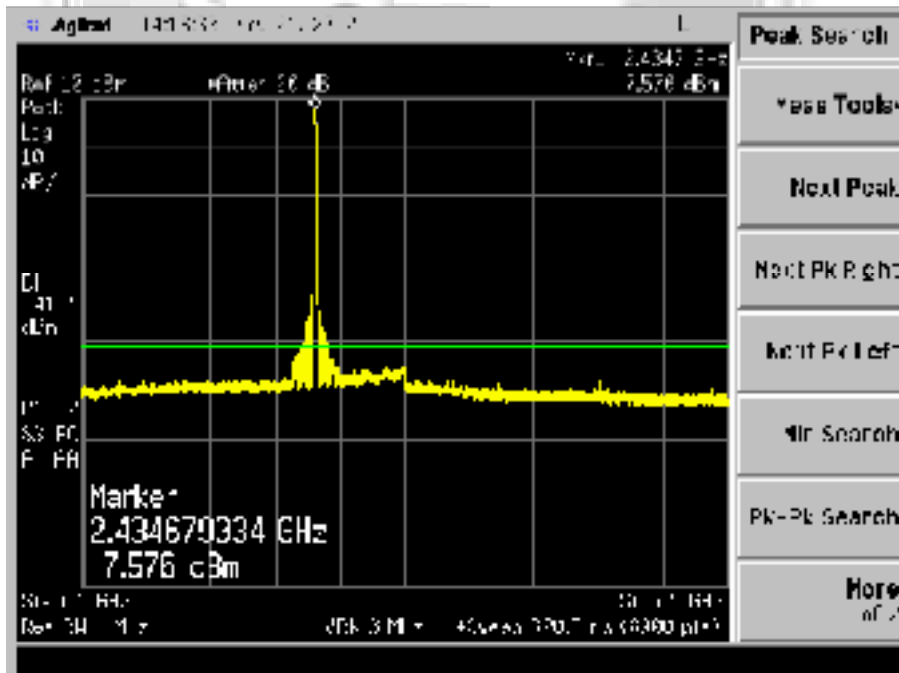


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 409 – Channel 6 (middle ch) @ DBPSK 1Mbps

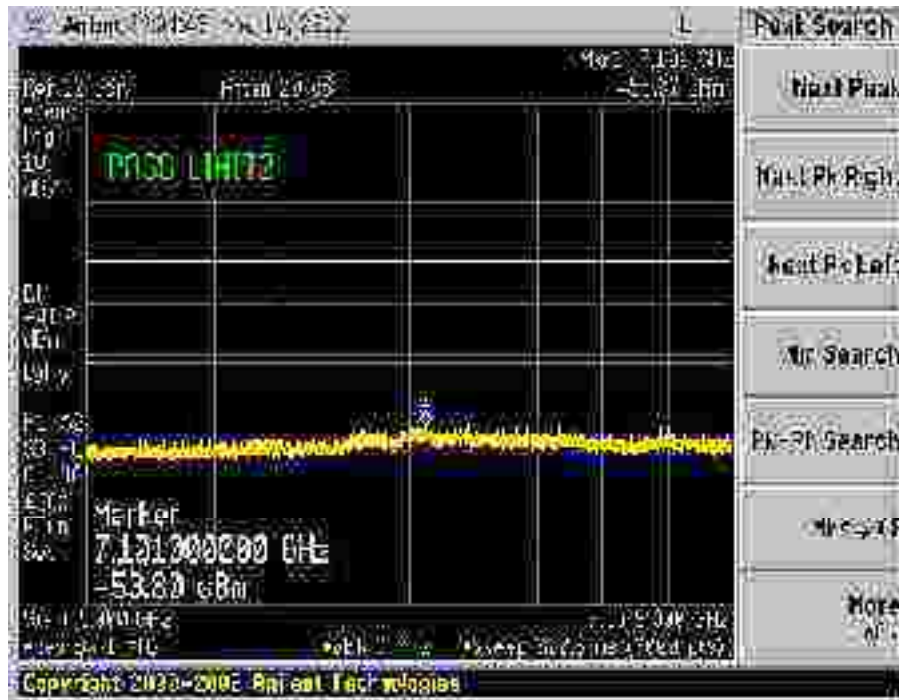


Plot 410 – Channel 6 (middle ch) @ DBPSK 1Mbps

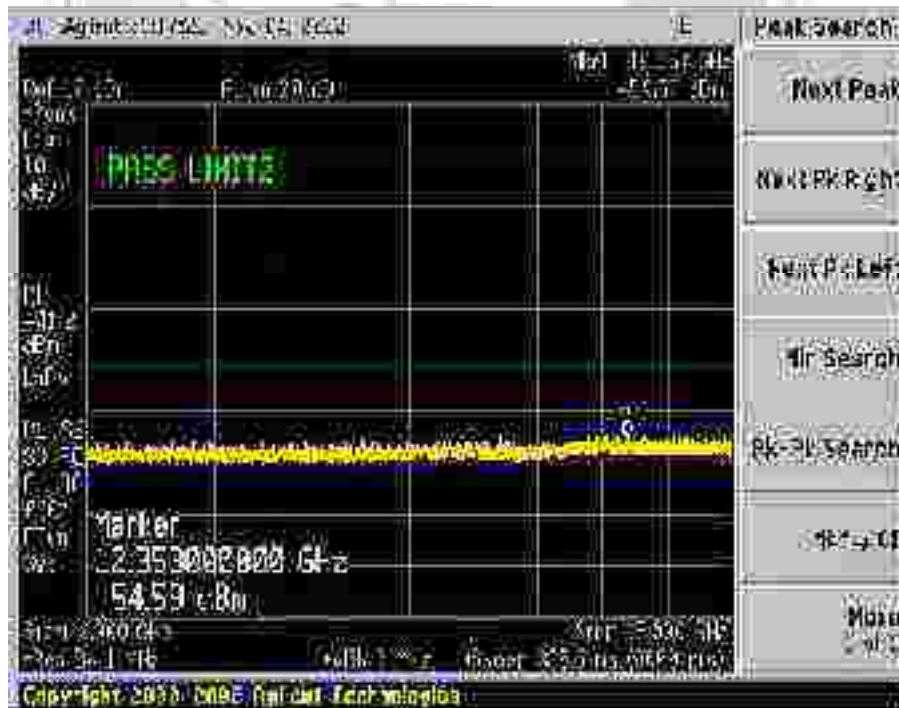


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 411 – Channel 6 (middle ch) @ DBPSK 1Mbps

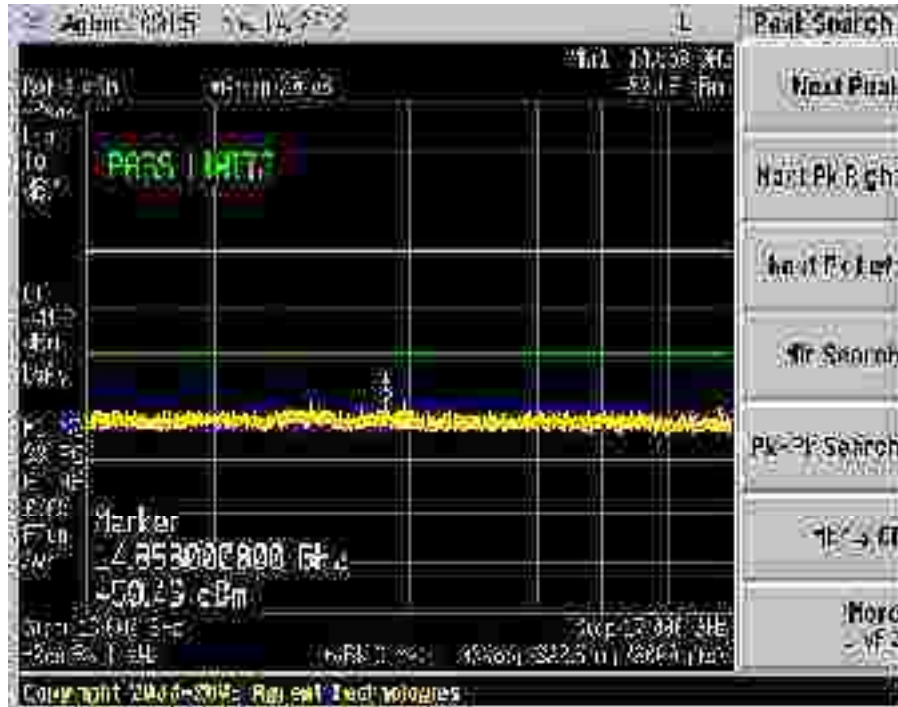


Plot 412 – Channel 6 (middle ch) @ DBPSK 1Mbps

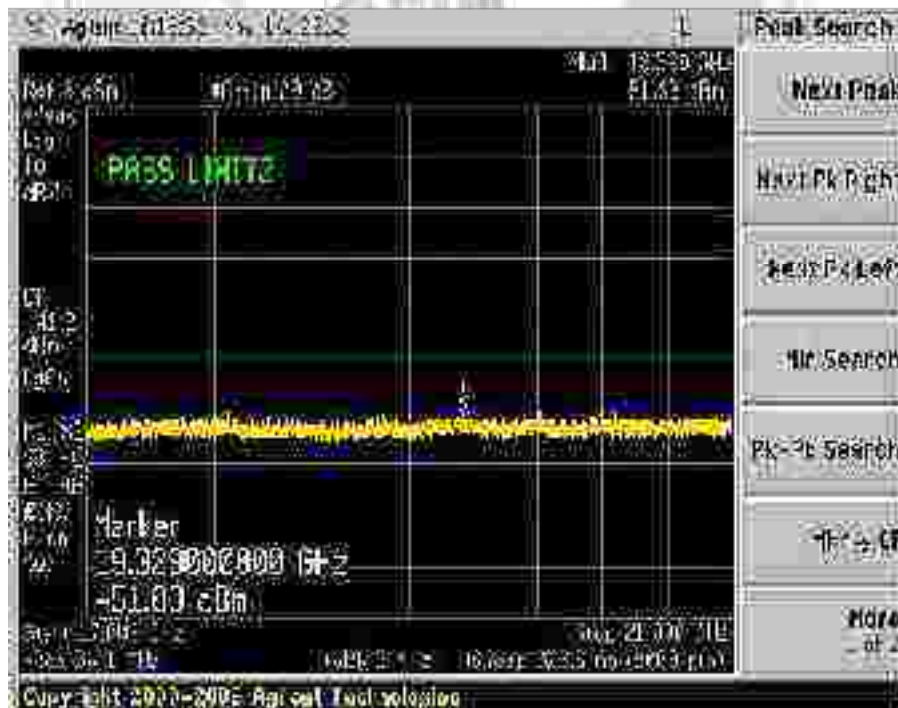


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 413 – Channel 6 (middle ch) @ DBPSK 1Mbps

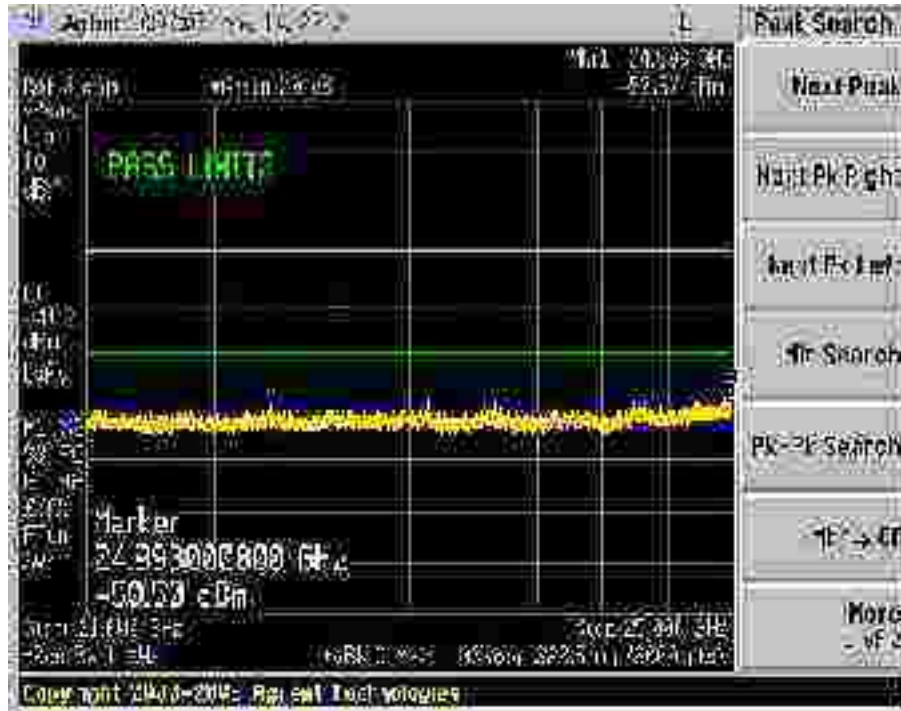


Plot 414 – Channel 6 (middle ch) @ DBPSK 1Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



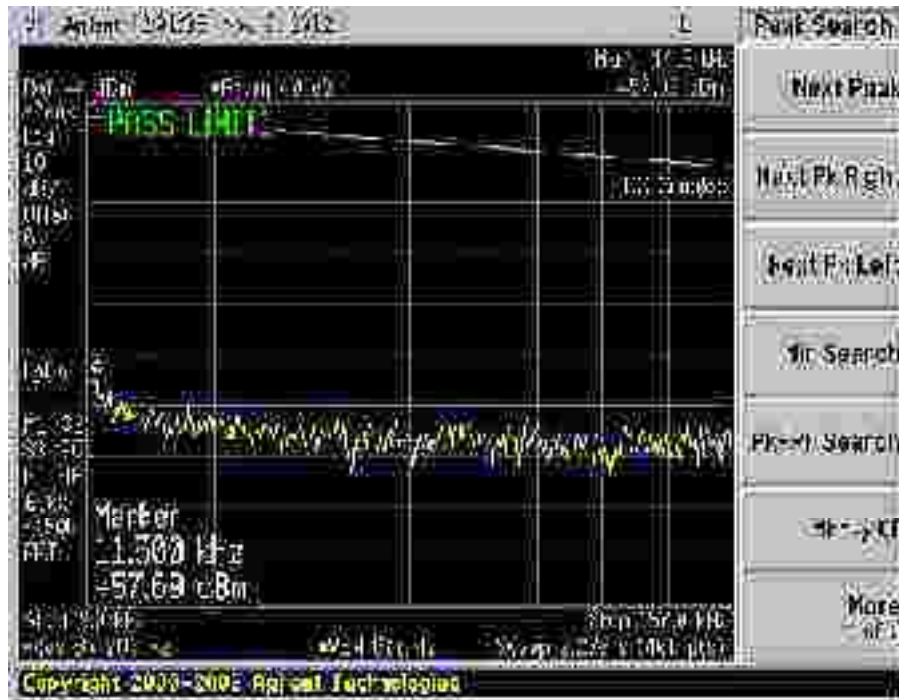
Plot 415 – Channel 6 (*middle ch*) @ DBPSK 1Mbps



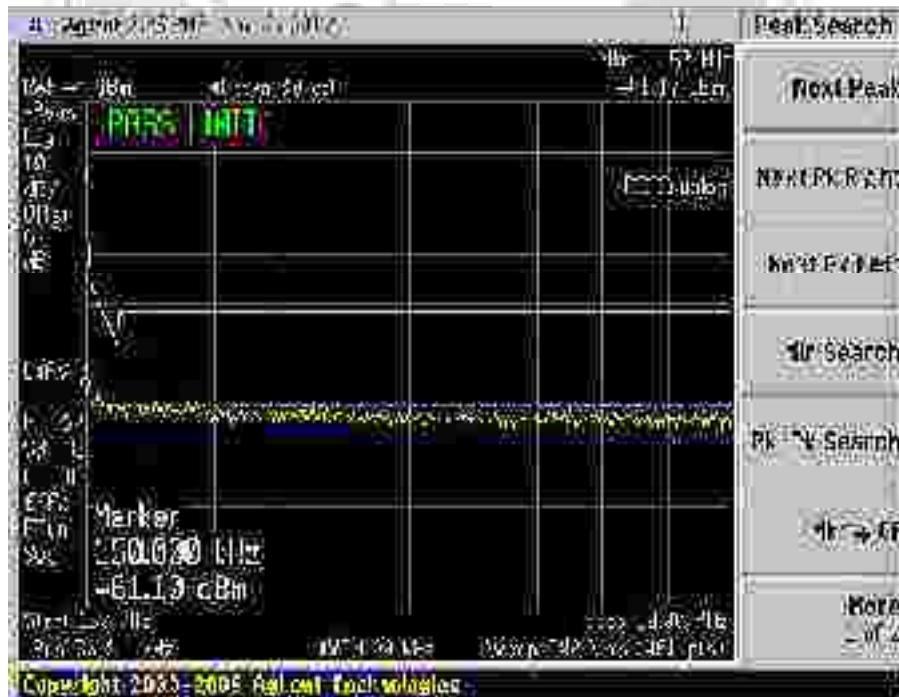


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 416 – Channel 6 (middle ch) @ DQPSK 2Mbps

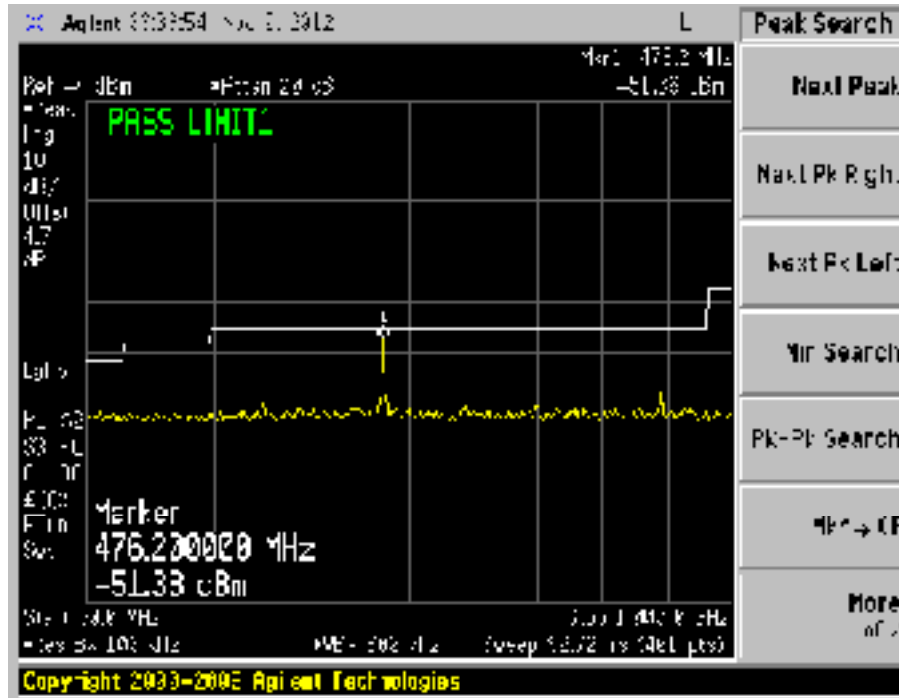


Plot 417 – Channel 6 (middle ch) @ DQPSK 2Mbps

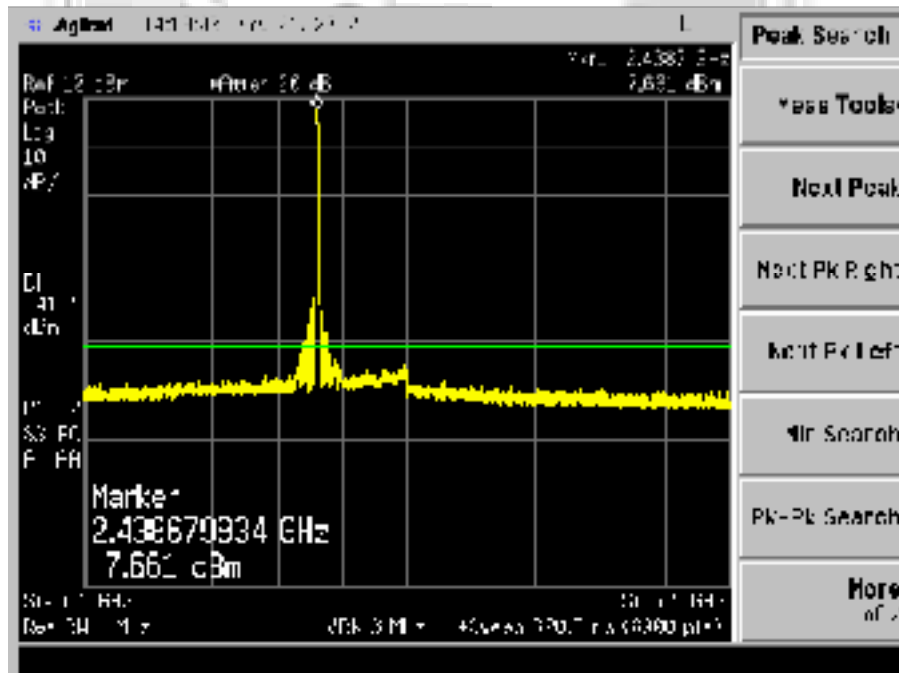


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 418 – Channel 6 (middle ch) @ DQPSK 2Mbps

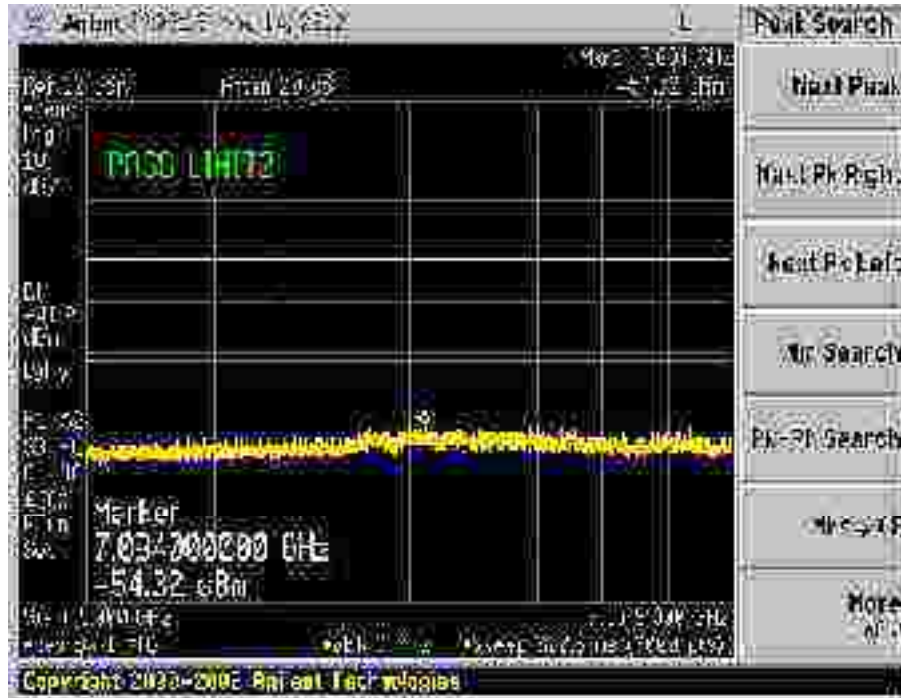


Plot 419 – Channel 6 (middle ch) @ DQPSK 2Mbps

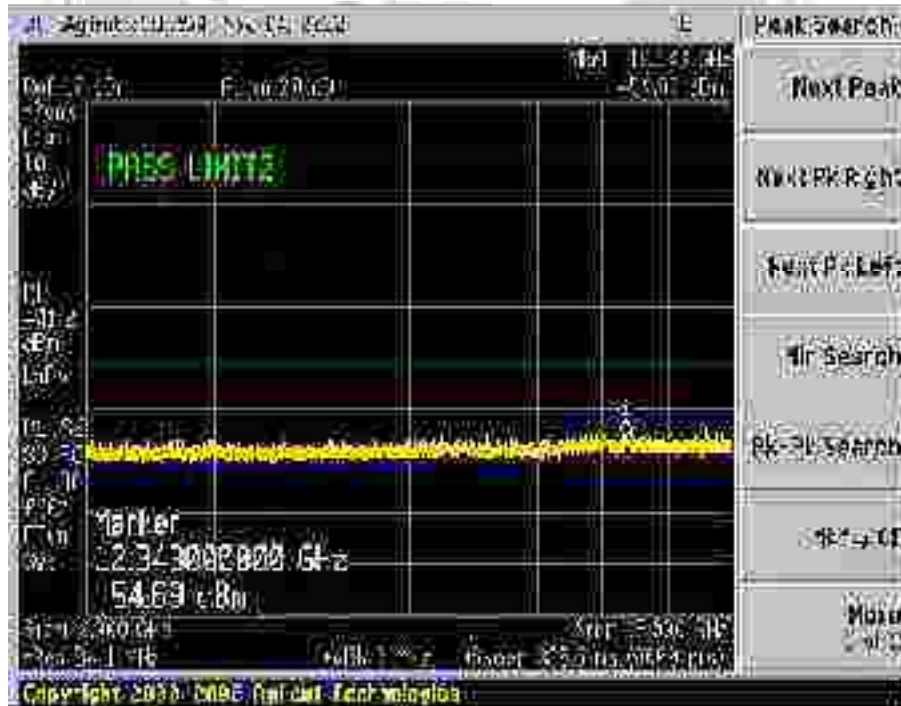


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 420 – Channel 6 (middle ch) @ DQPSK 2Mbps

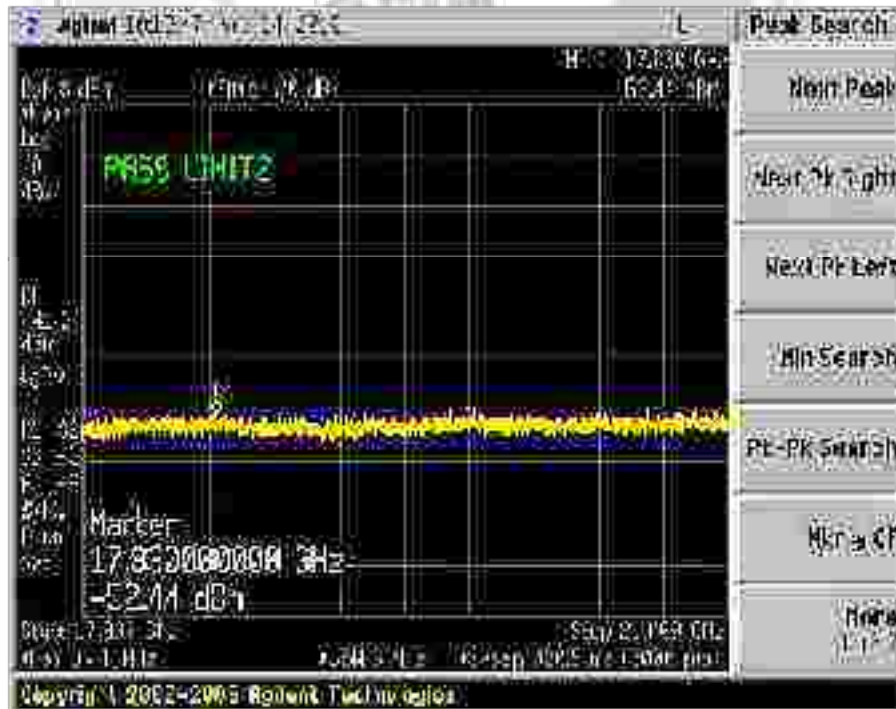
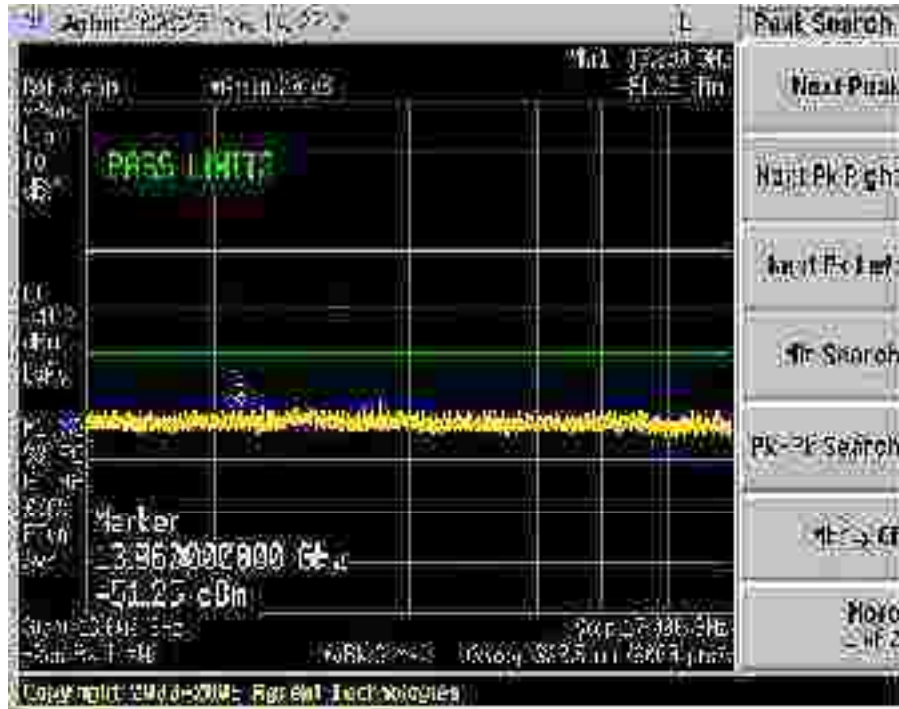


Plot 421 – Channel 6 (middle ch) @ DQPSK 2Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

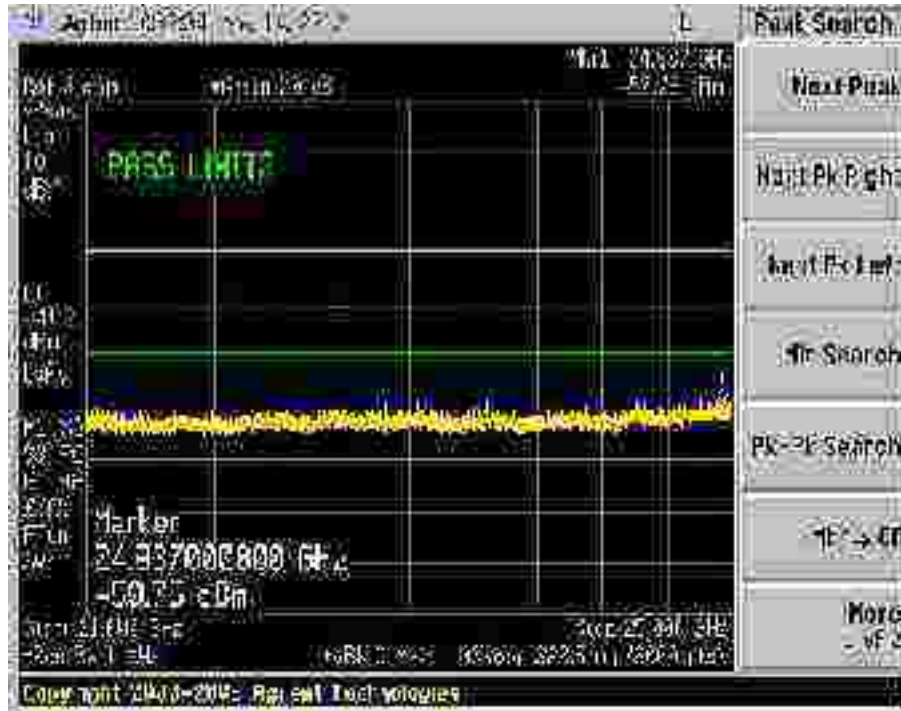
RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)





RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



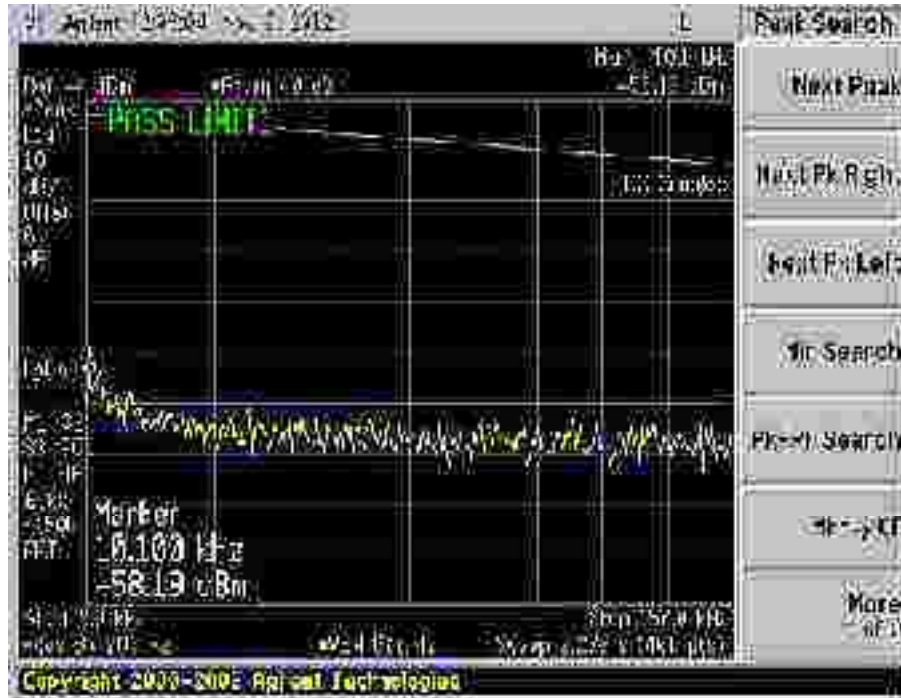
Plot 424 – Channel 6 (*middle ch*) @ DQPSK 2Mbps



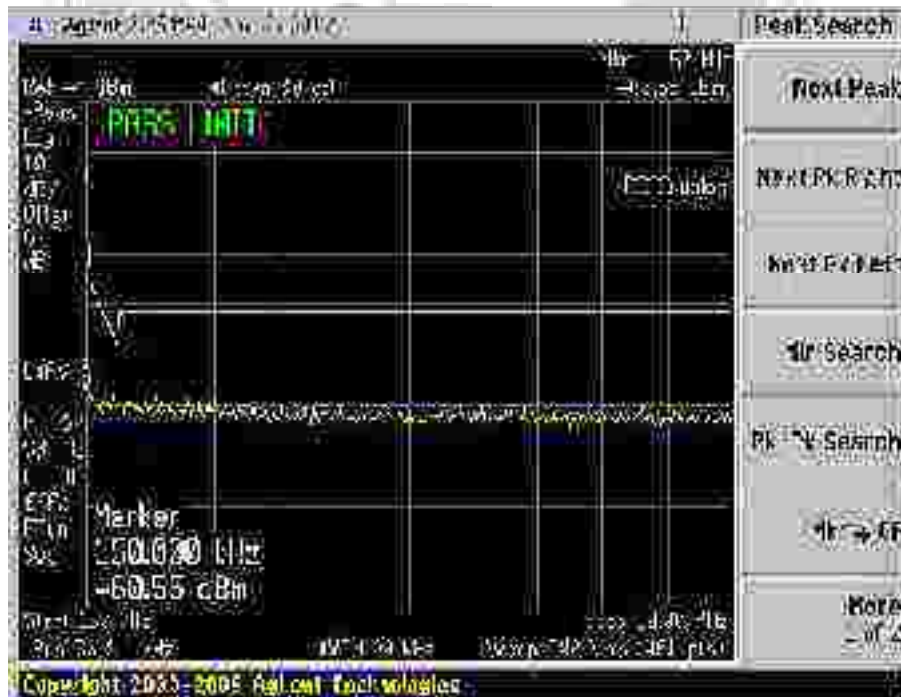


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 425 – Channel 6 (middle ch) @ CCK 11Mbps

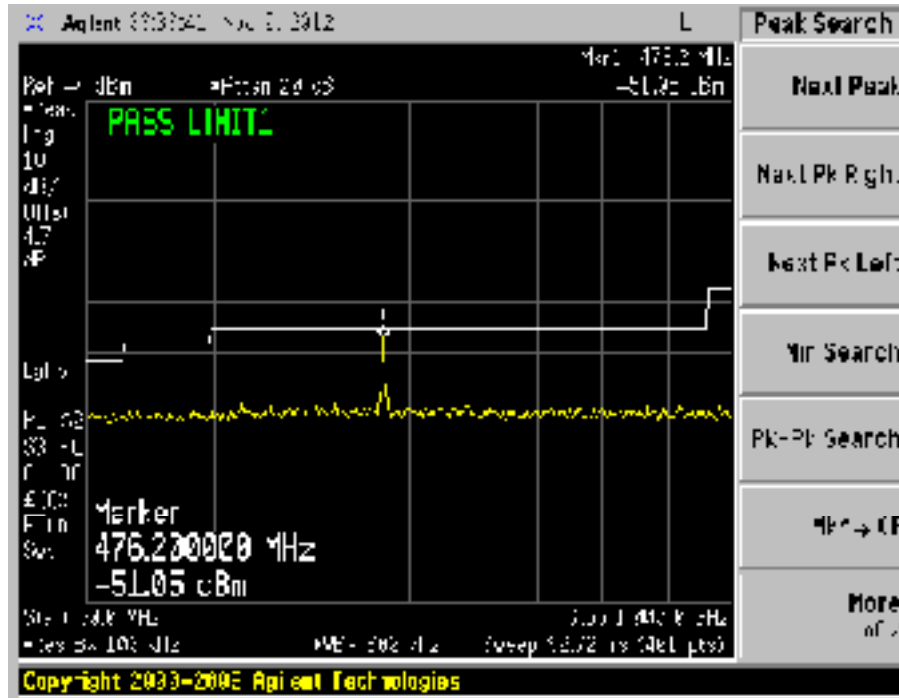


Plot 426 – Channel 6 (middle ch) @ CCK 11Mbps

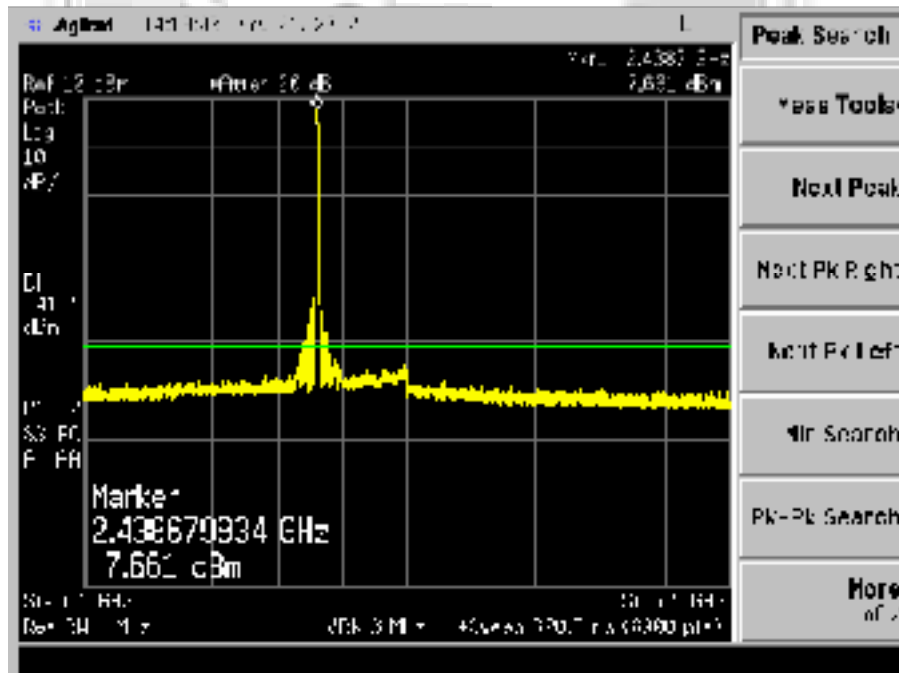


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 427 – Channel 6 (middle ch) @ CCK 11Mbps

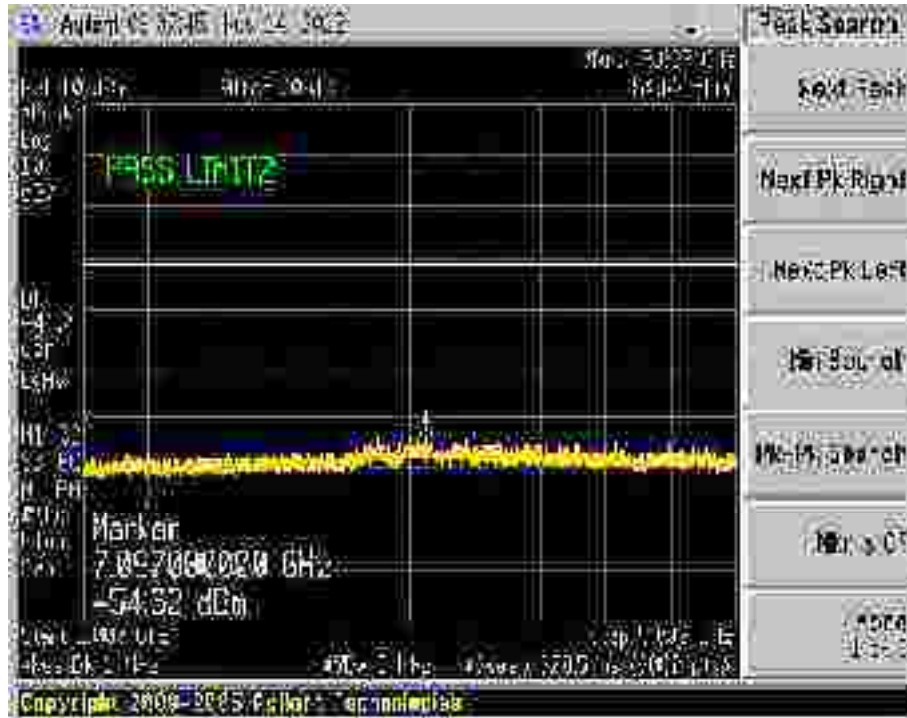


Plot 428 – Channel 6 (middle ch) @ CCK 11Mbps

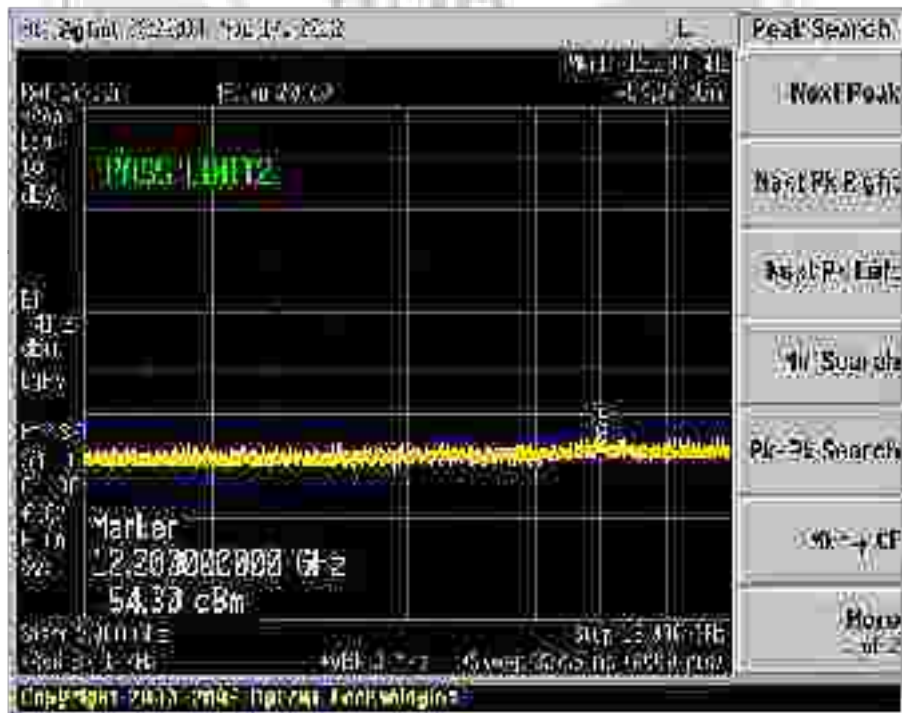


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 429 – Channel 6 (middle ch) @ CCK 11Mbps

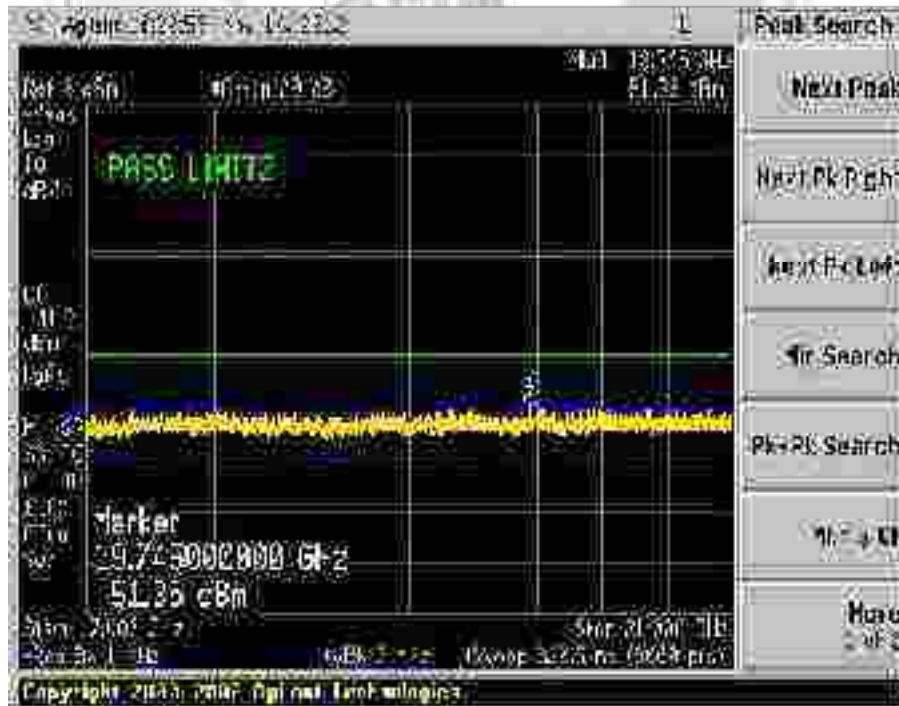
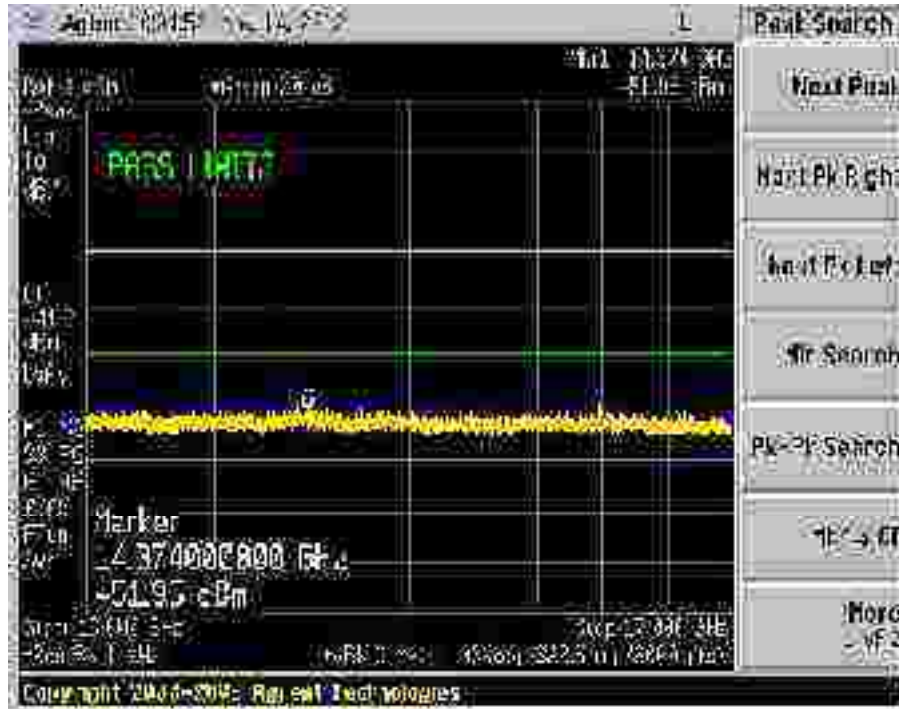


Plot 430 – Channel 6 (middle ch) @ CCK 11Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

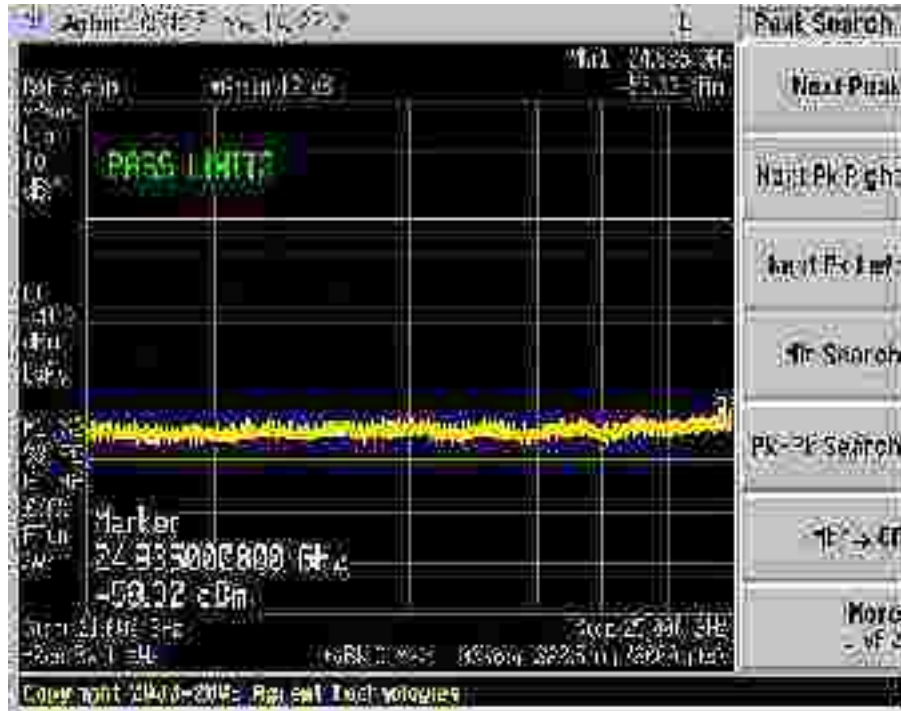
RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



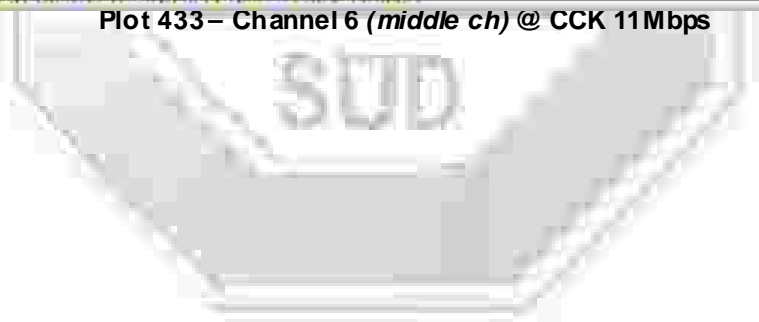


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



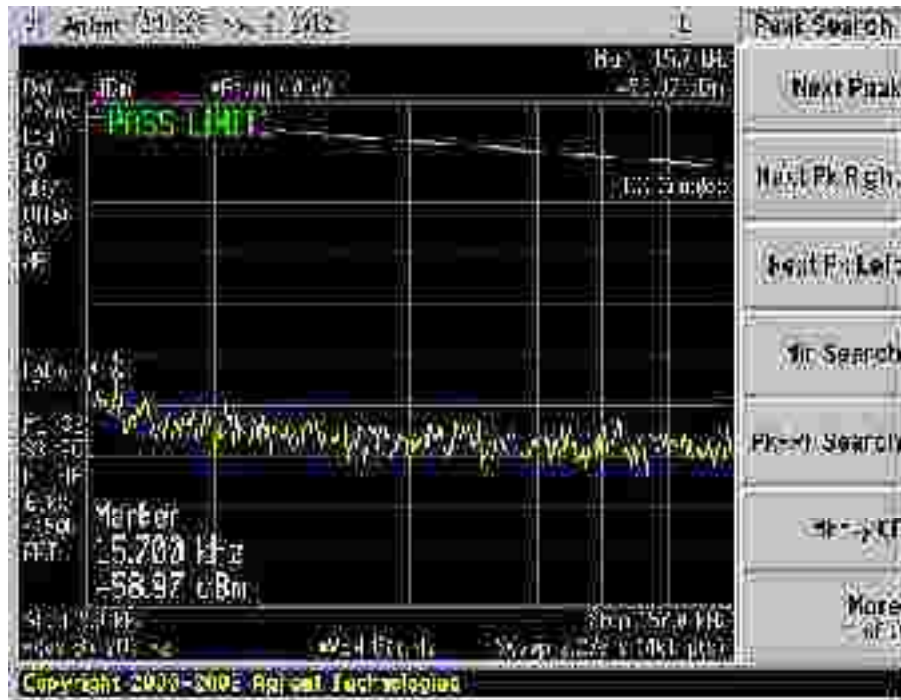
Plot 433 – Channel 6 (middle ch) @ CCK 11Mbps



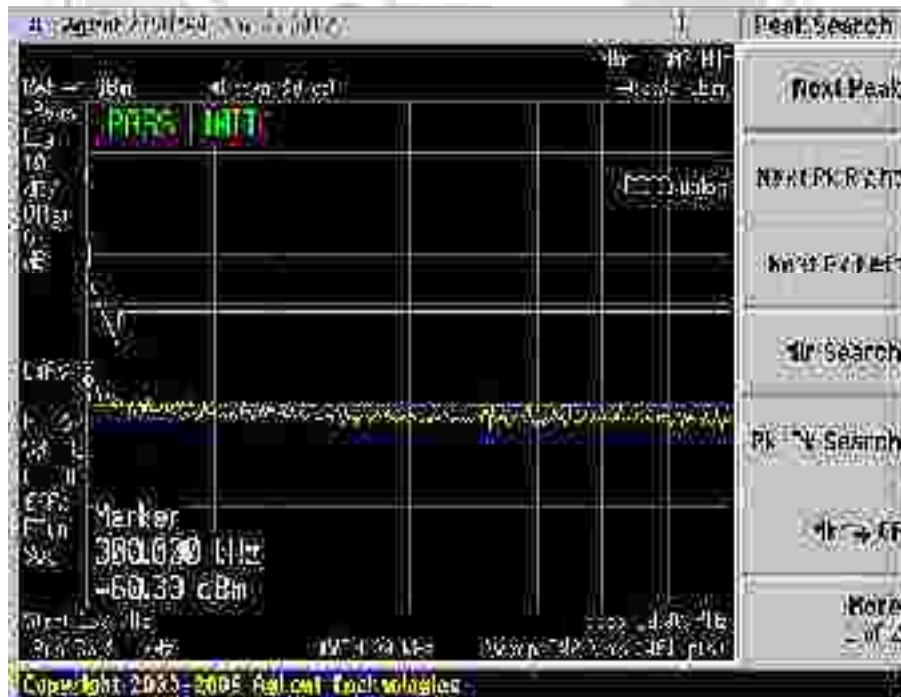


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 434 – Channel 6 (middle ch) @ BPSK 9Mbps

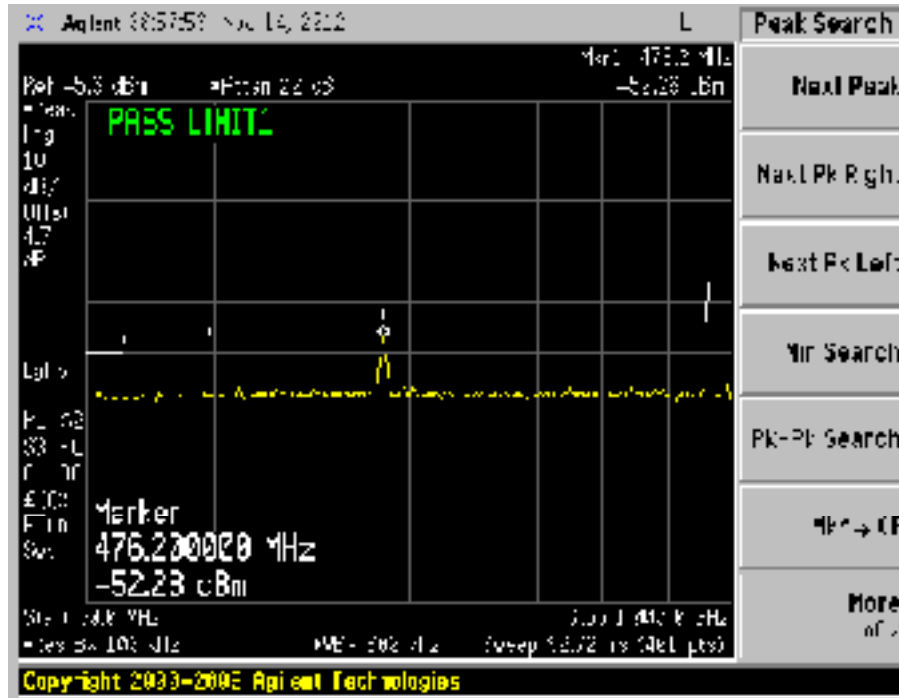


Plot 435 – Channel 6 (middle ch) @ BPSK 9Mbps

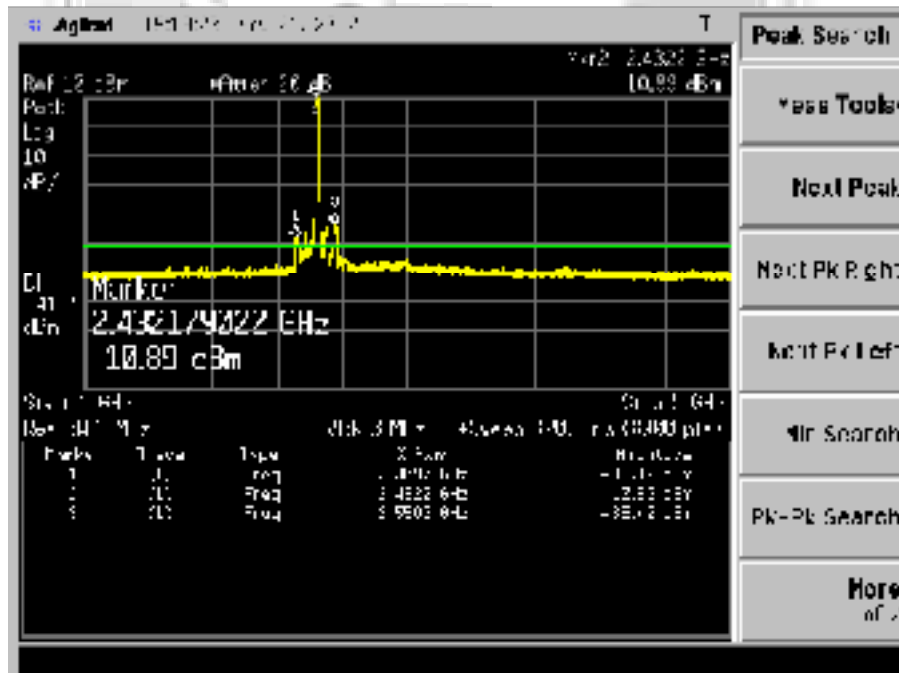


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 436 – Channel 6 (middle ch) @ BPSK 9Mbps

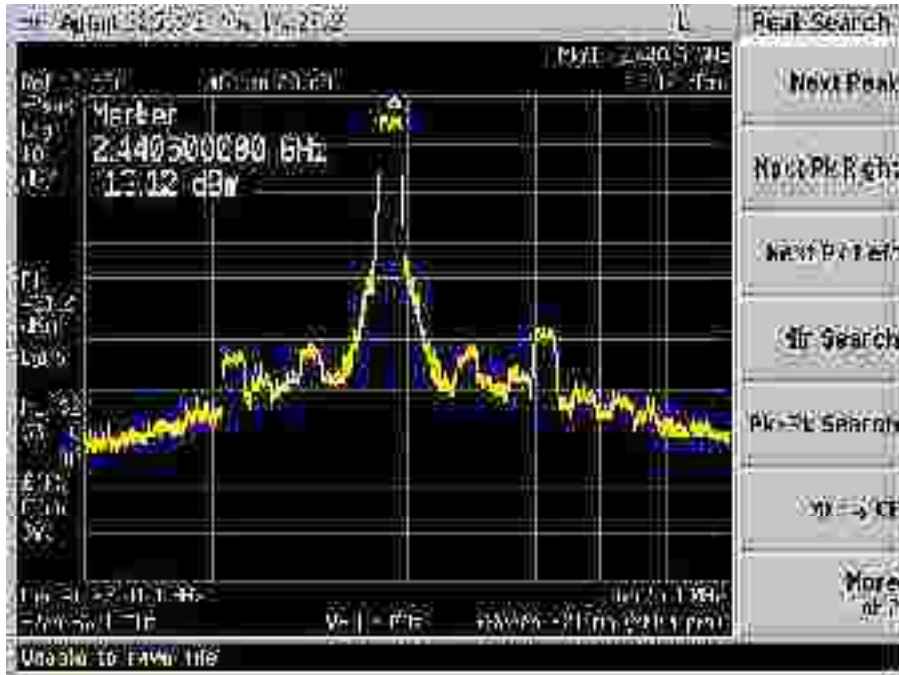


Plot 437 – Channel 6 (middle ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 438– Channel 6 (middle ch) @ BPSK 9Mbps

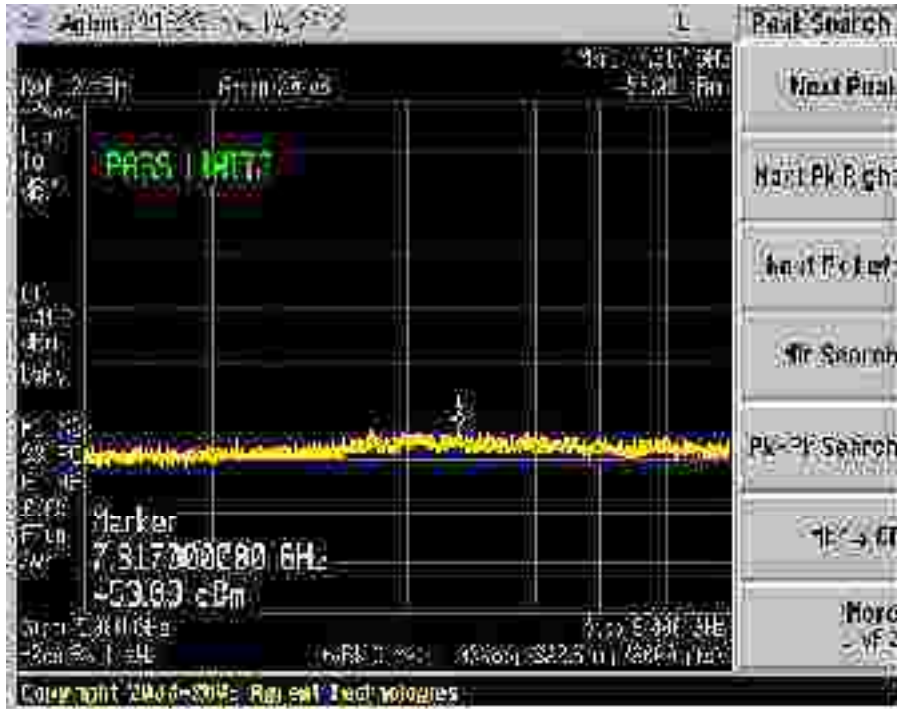


Plot 439– Channel 6 (middle ch) @ BPSK 9Mbps

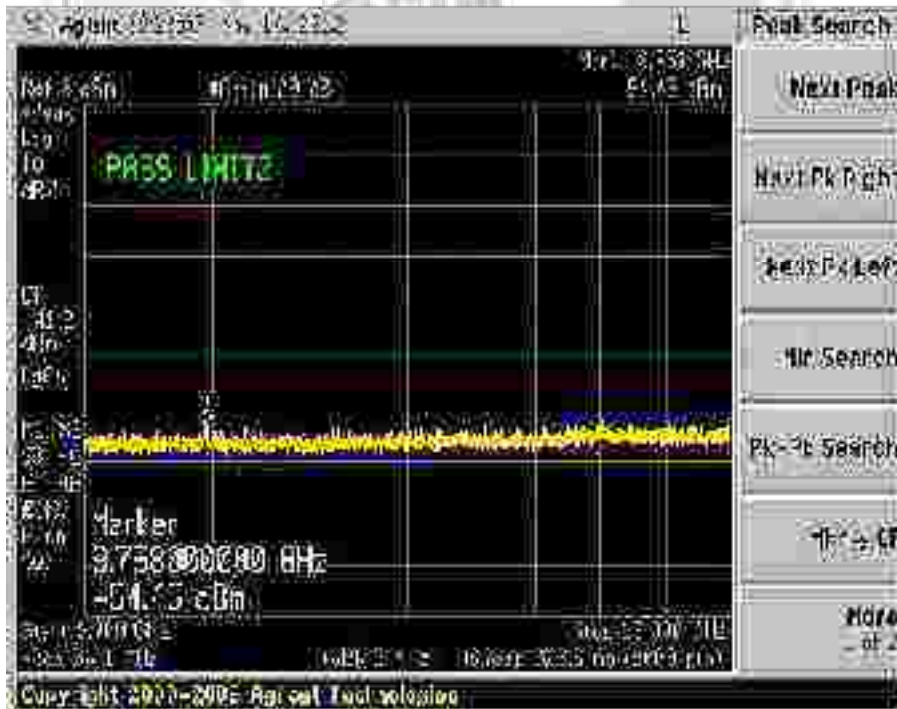


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 440 – Channel 6 (middle ch) @ BPSK 9Mbps

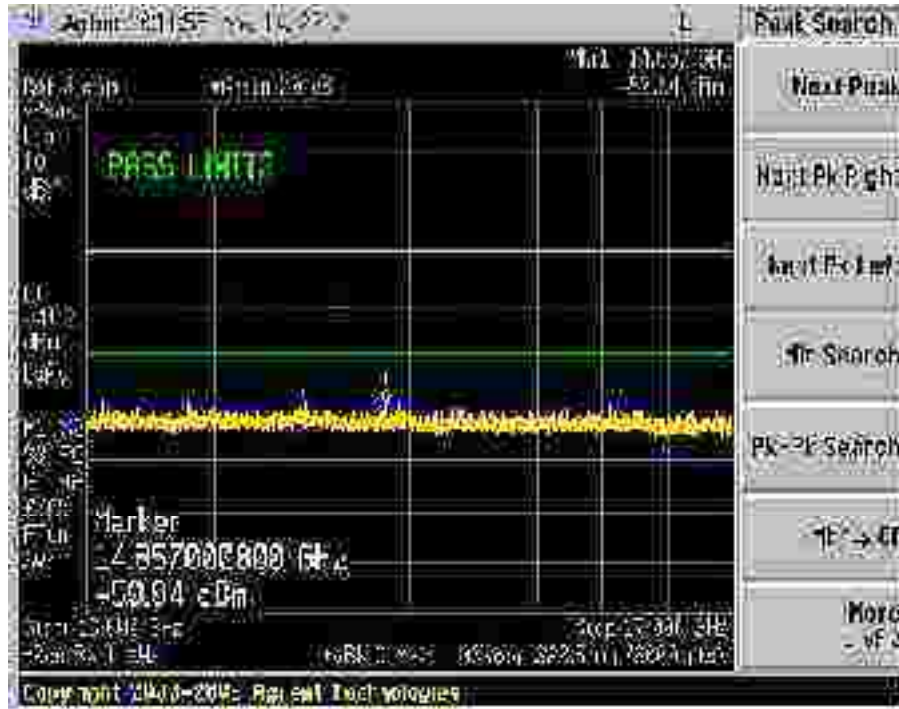


Plot 441 – Channel 6 (middle ch) @ BPSK 9Mbps

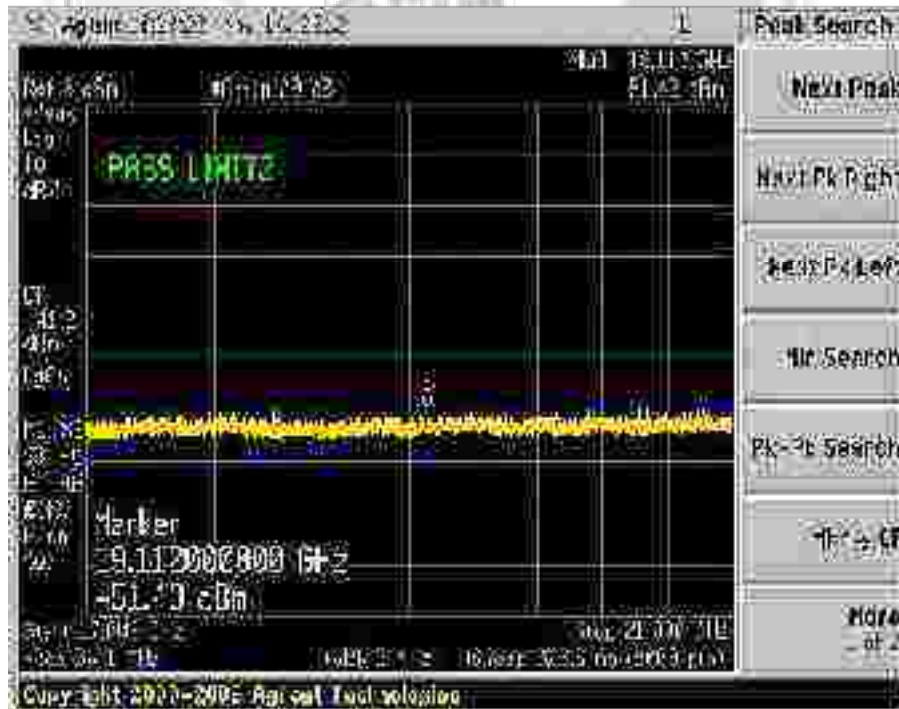


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 442 – Channel 6 (middle ch) @ BPSK 9Mbps

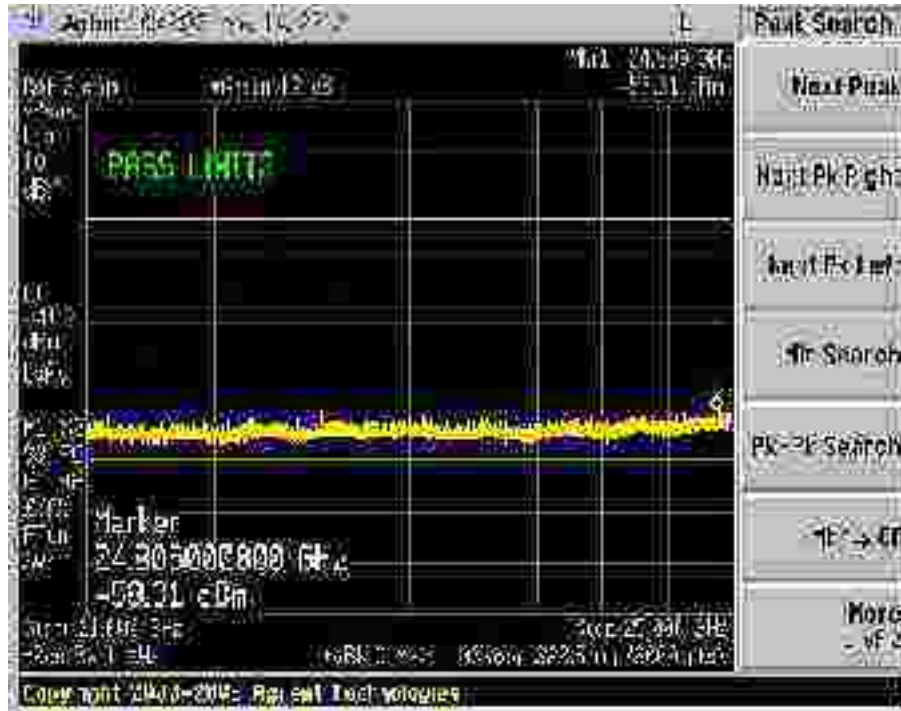


Plot 443 – Channel 6 (middle ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



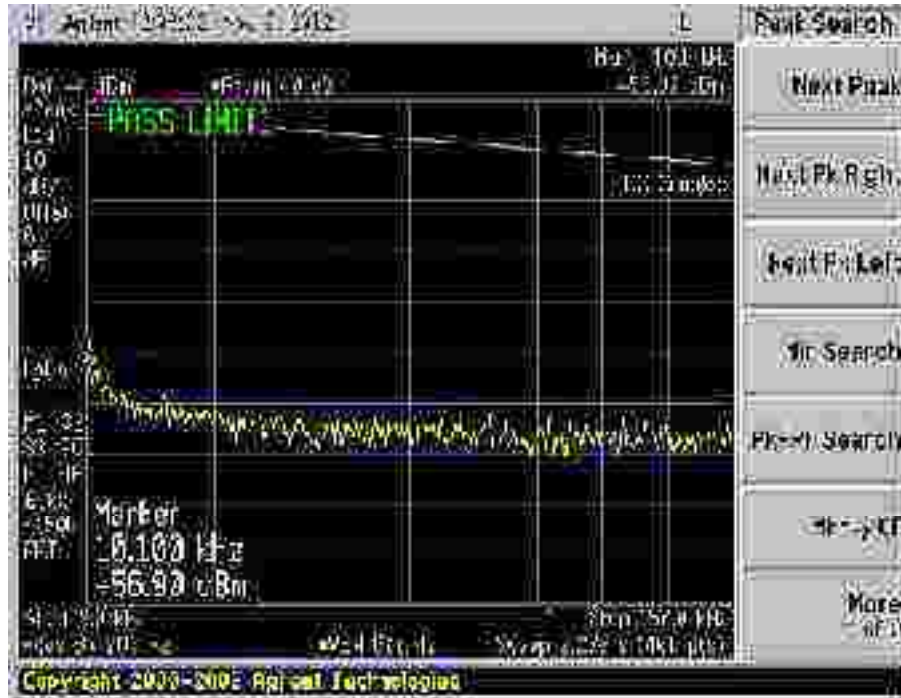
Plot 444 – Channel 6 (middle ch) @ BPSK 9Mbps



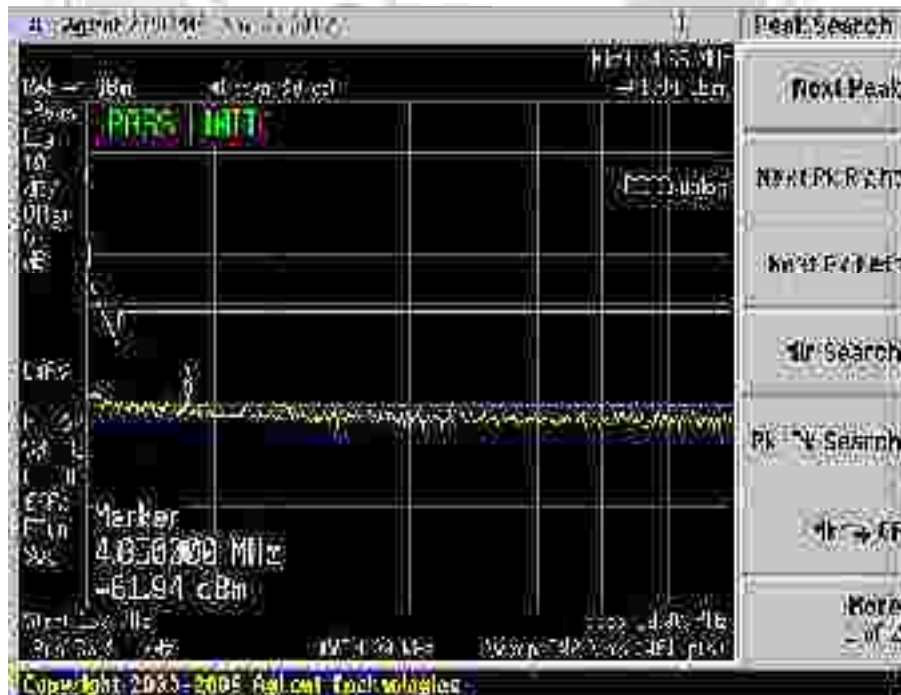


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 445 – Channel 6 (middle ch) @ QPSK 18Mbps

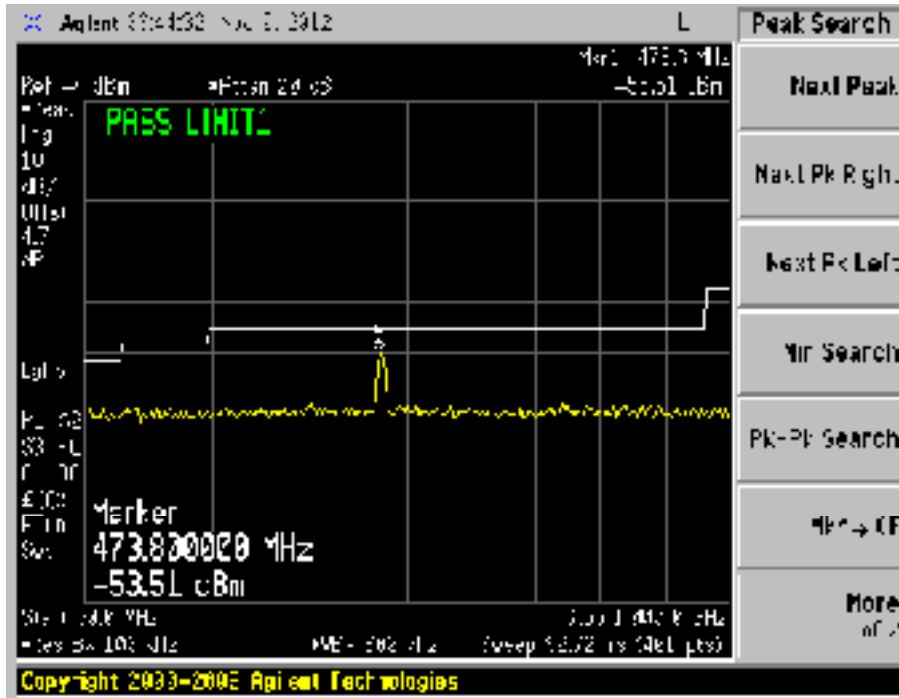


Plot 446 – Channel 6 (middle ch) @ QPSK 18Mbps

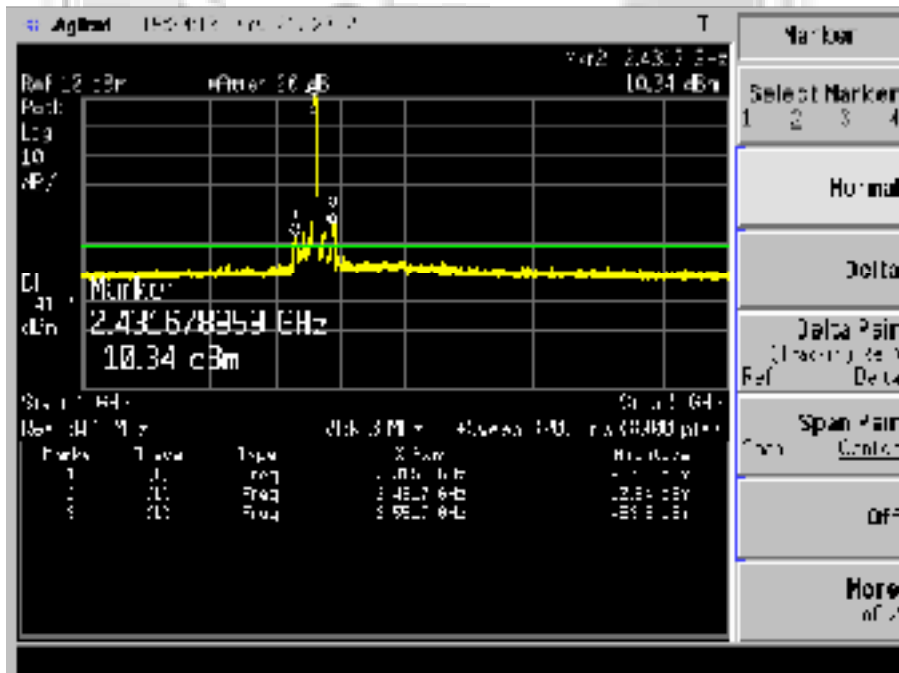


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 447 – Channel 6 (middle ch) @ QPSK 18Mbps

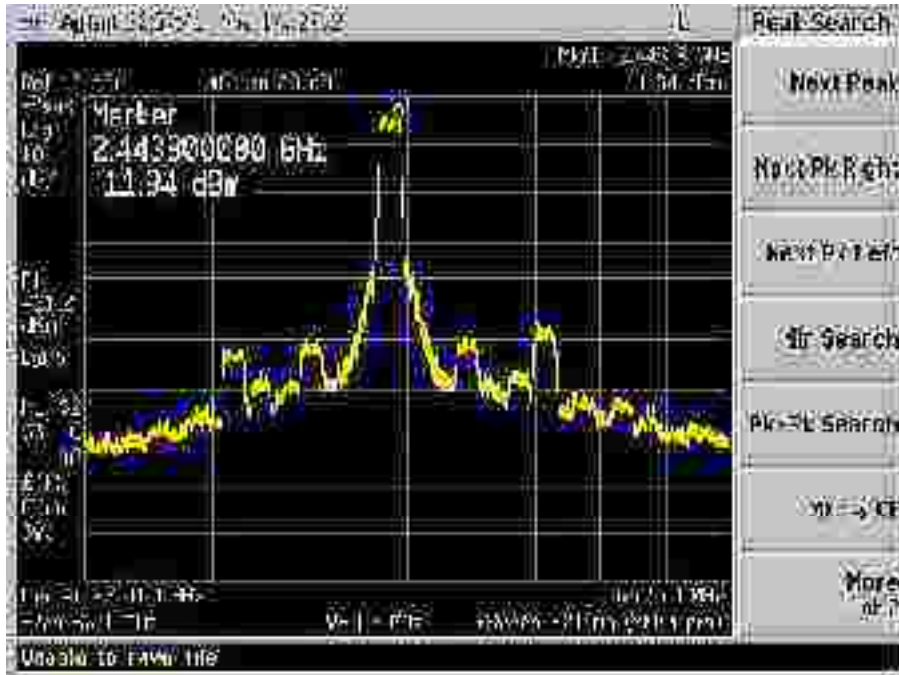


Plot 448 – Channel 6 (middle ch) @ QPSK 18Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 449 – Channel 6 (*middle ch*) @ QPSK 18Mbps

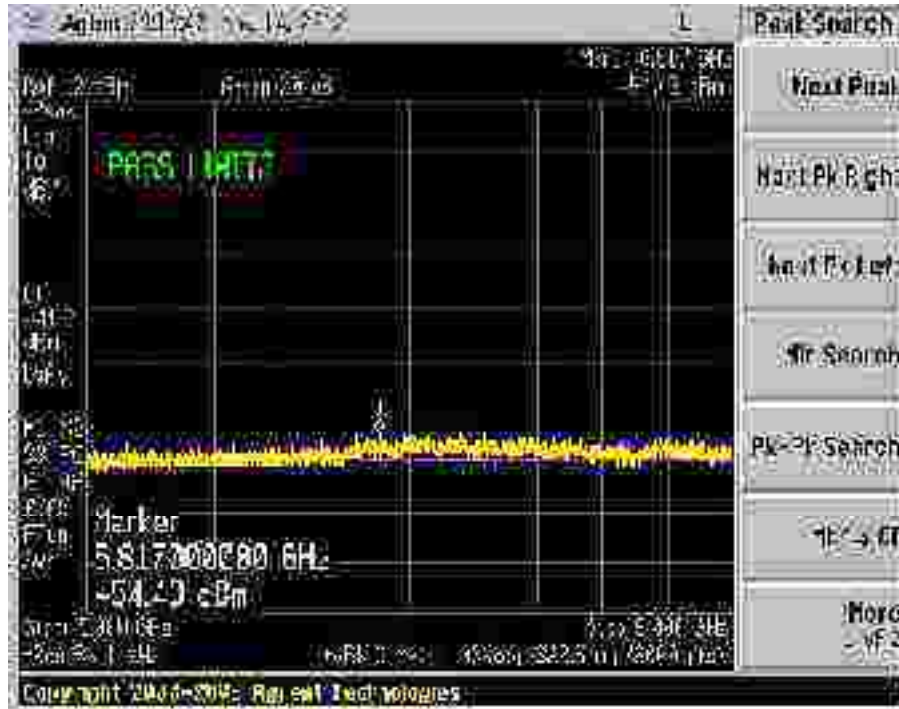


Plot 450 – Channel 6 (*middle ch*) @ QPSK 18Mbps

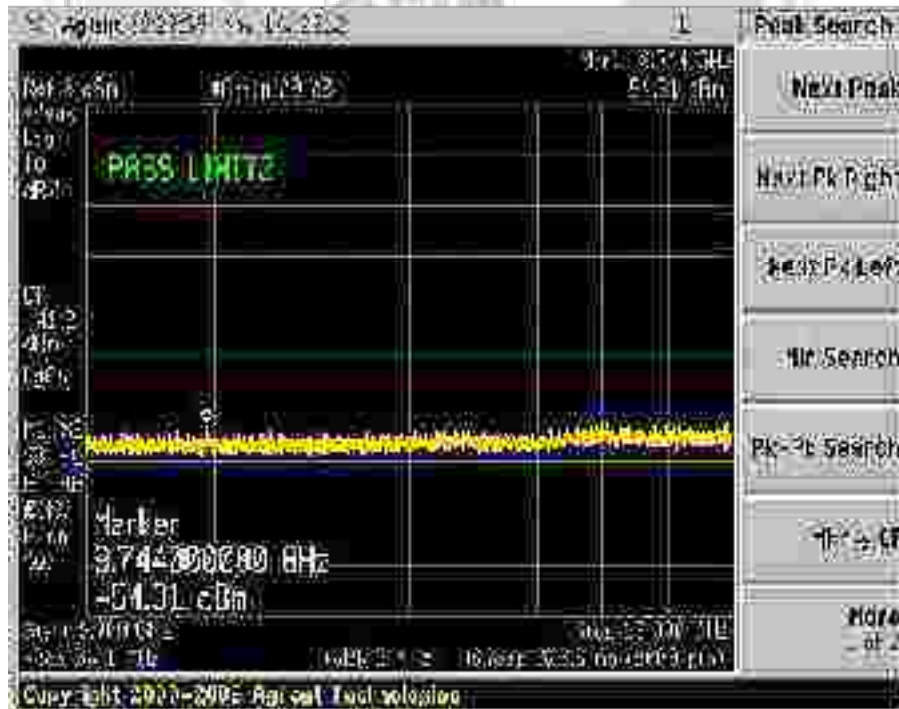


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 451 – Channel 6 (middle ch) @ QPSK 18Mbps

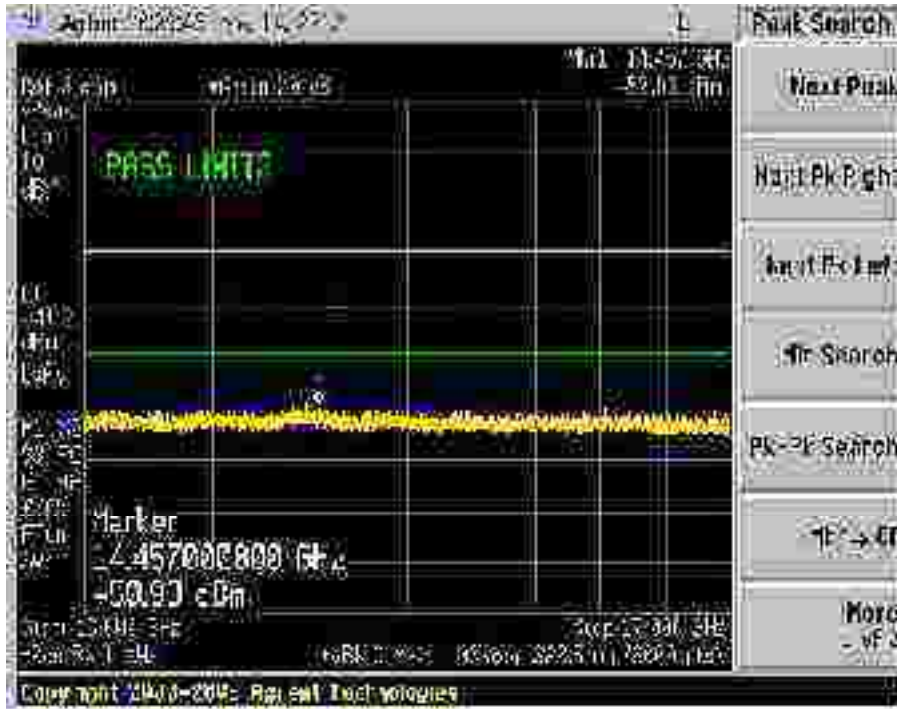


Plot 452 – Channel 6 (middle ch) @ QPSK 18Mbps

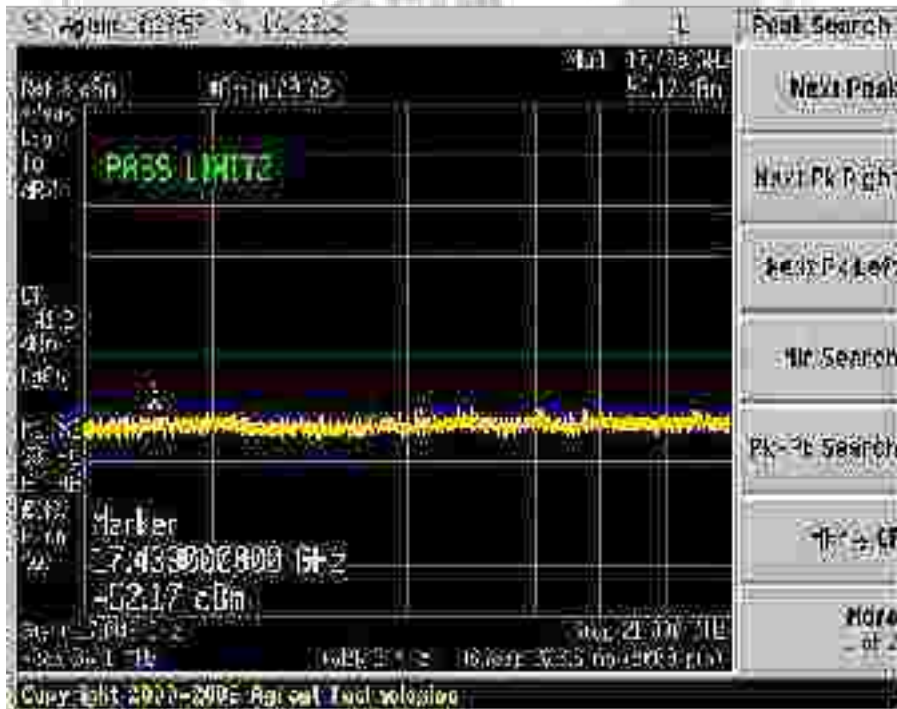


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 453 – Channel 6 (middle ch) @ QPSK 18Mbps

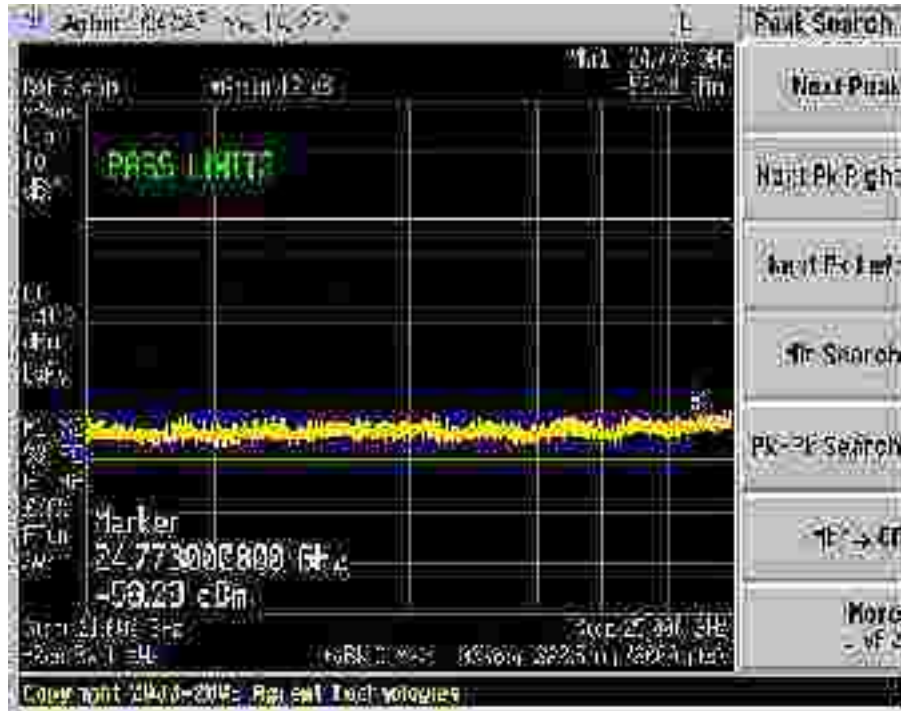


Plot 454 – Channel 6 (middle ch) @ QPSK 18Mbps

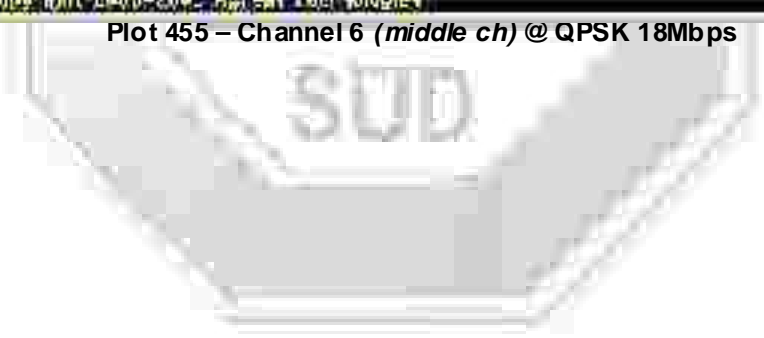


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 455 – Channel 6 (middle ch) @ QPSK 18Mbps



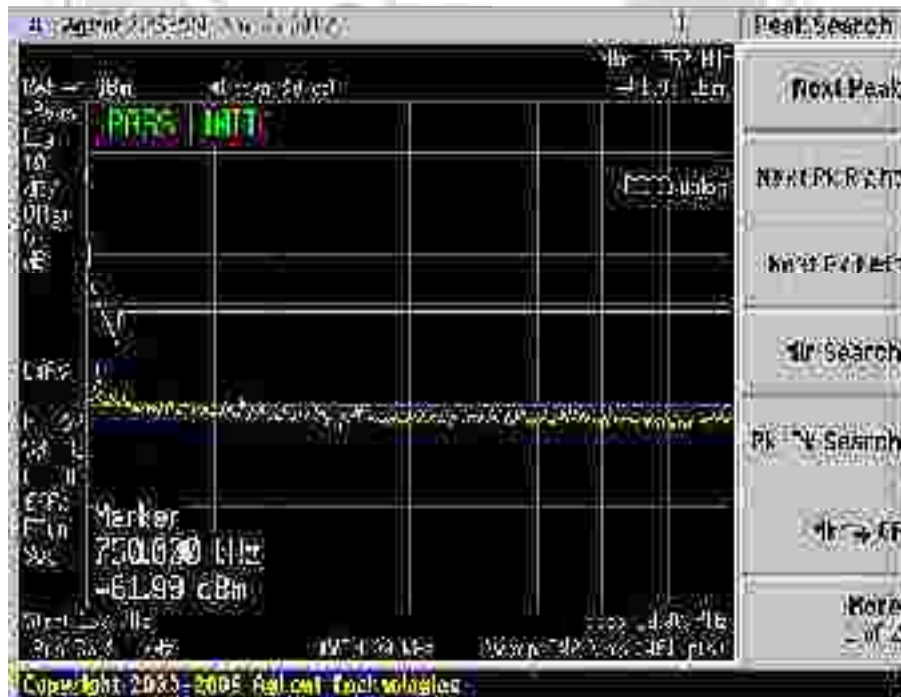


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 456 – Channel 6 (middle ch) @ 16QAM 36Mbps

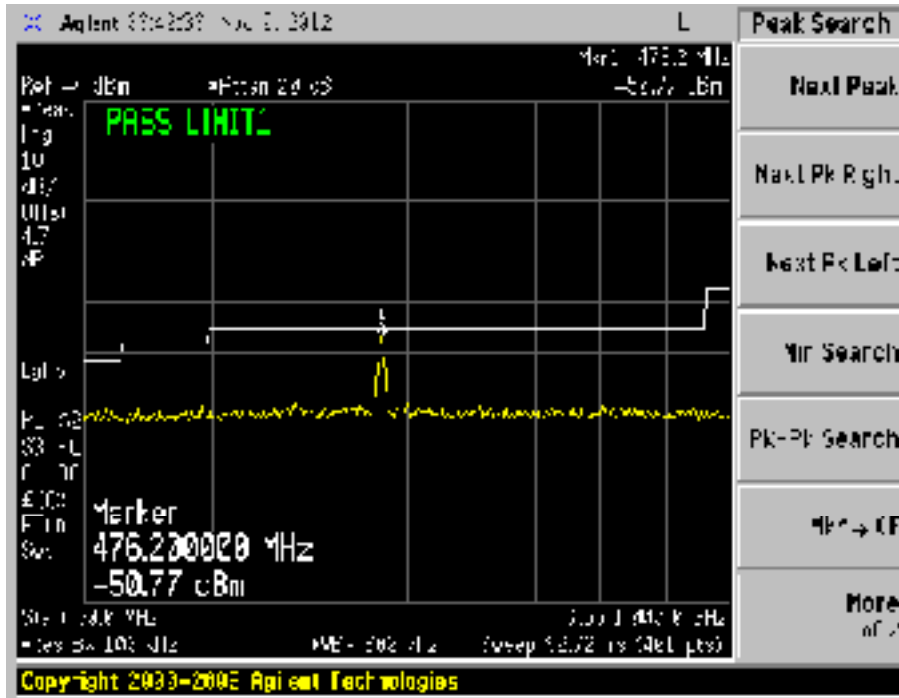


Plot 457 – Channel 6 (middle ch) @ 16QAM 36Mbps

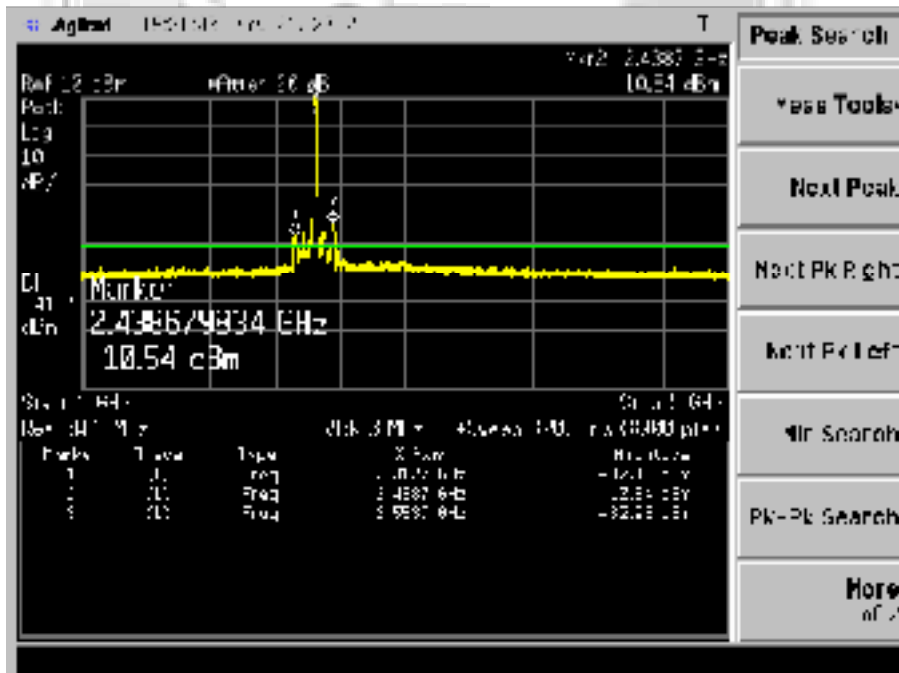


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 458 – Channel 6 (middle ch) @ 16QAM 36Mbps



Plot 459 – Channel 6 (middle ch) @ 16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 460 – Channel 6 (middle ch) @ 16QAM 36Mbps

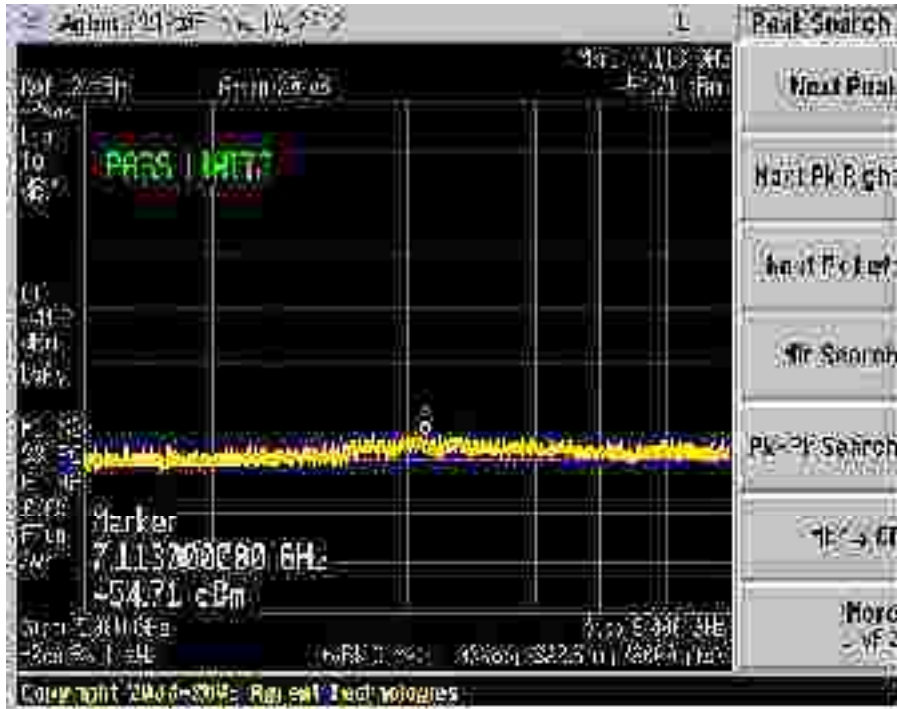


Plot 461 – Channel 6 (middle ch) @ 16QAM 36Mbps

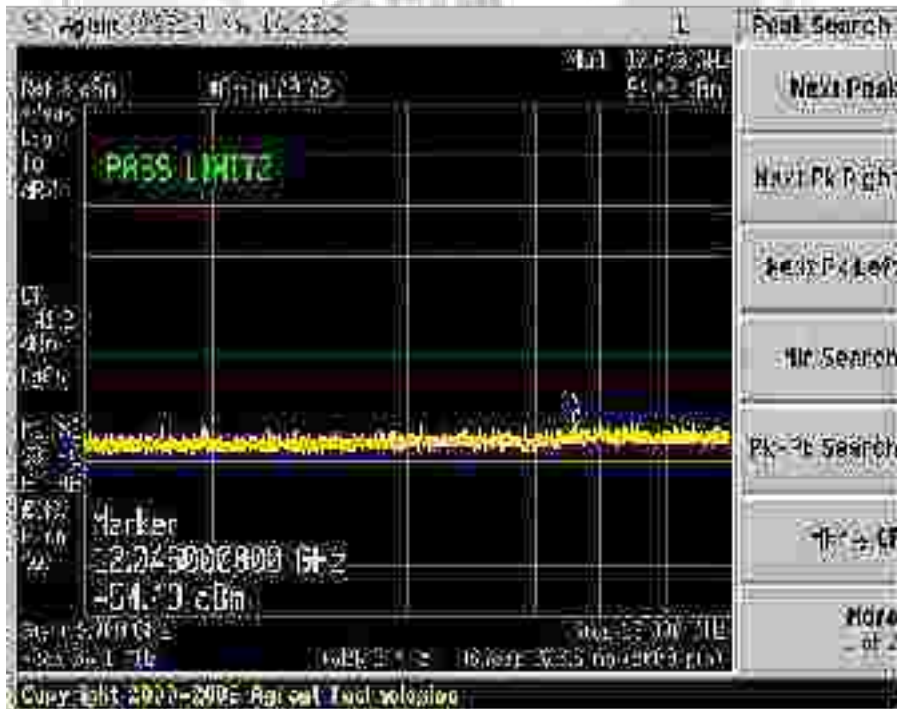


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 462 – Channel 6 (middle ch) @ 16QAM 36Mbps

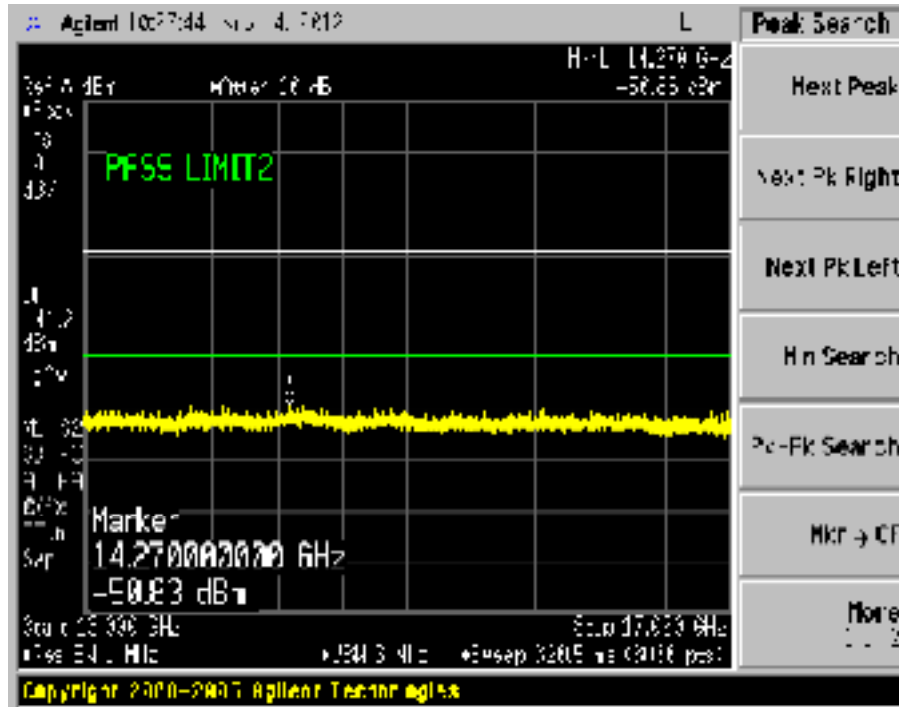


Plot 463 – Channel 6 (middle ch) @ 16QAM 36Mbps

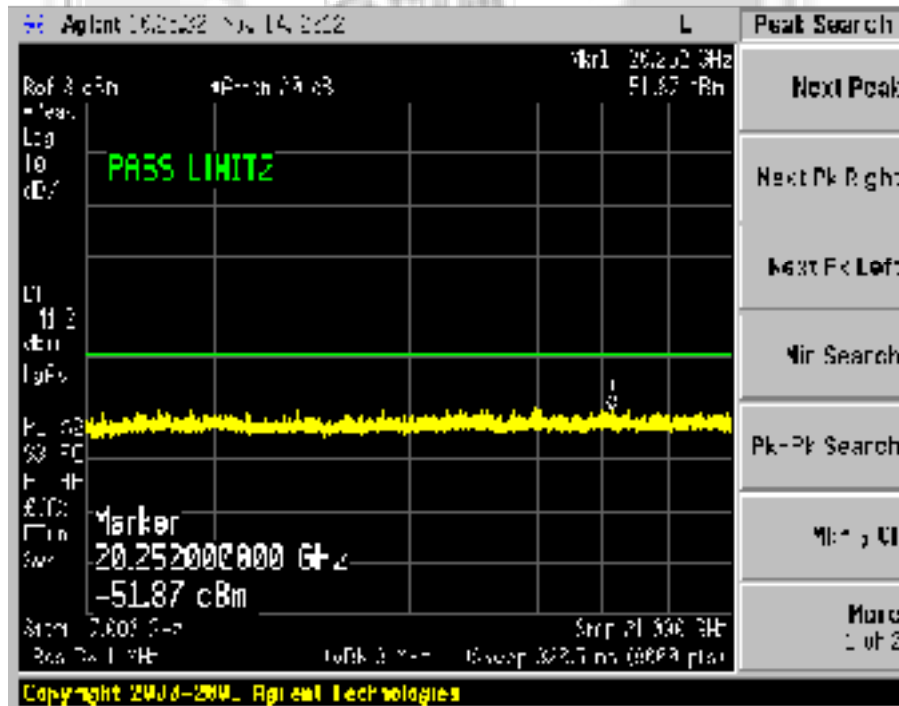


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 464 – Channel 6 (middle ch) @ 16QAM 36Mbps

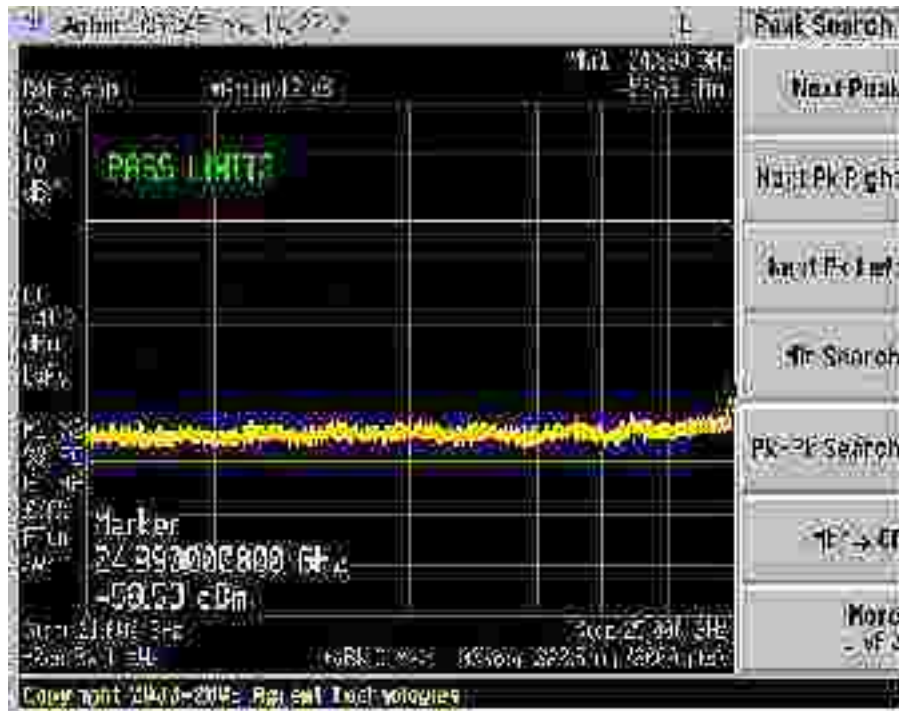


Plot 465 – Channel 6 (middle ch) @ 16QAM 36Mbps

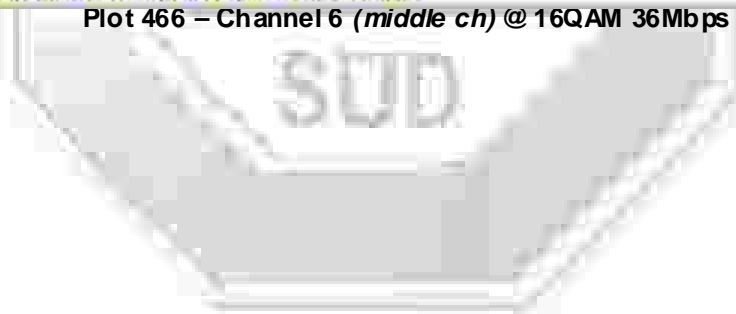


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



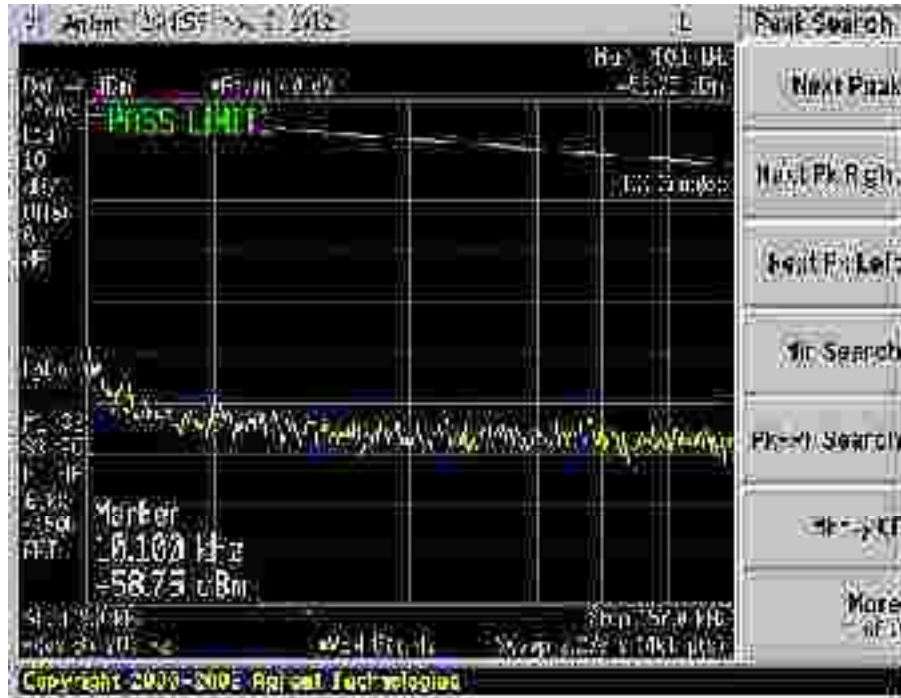
Plot 466 – Channel 6 (middle ch) @ 16QAM 36Mbps



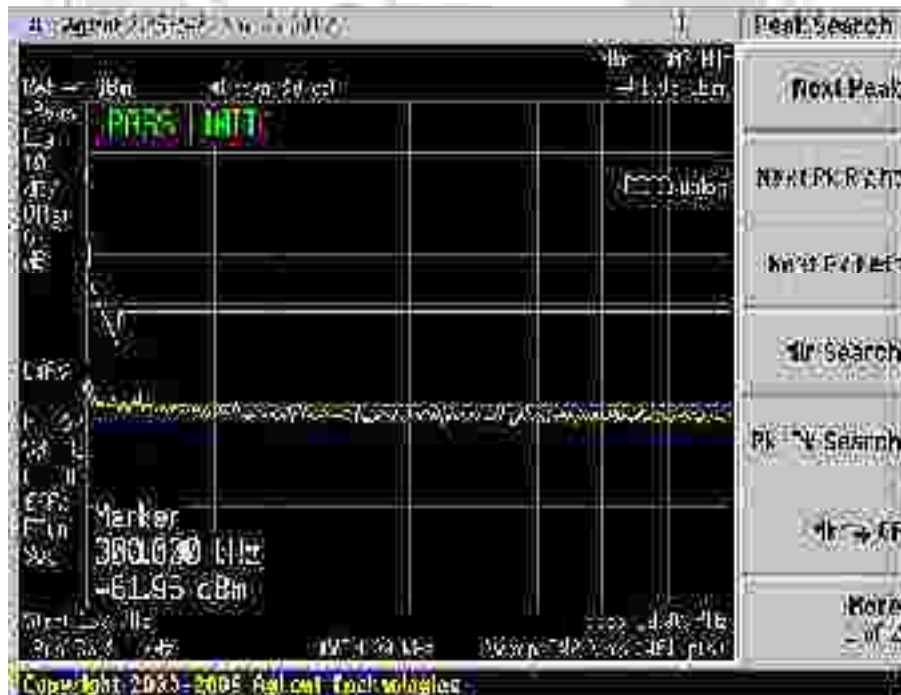


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 467 – Channel 6 (middle ch) @ 64QAM 54Mbps

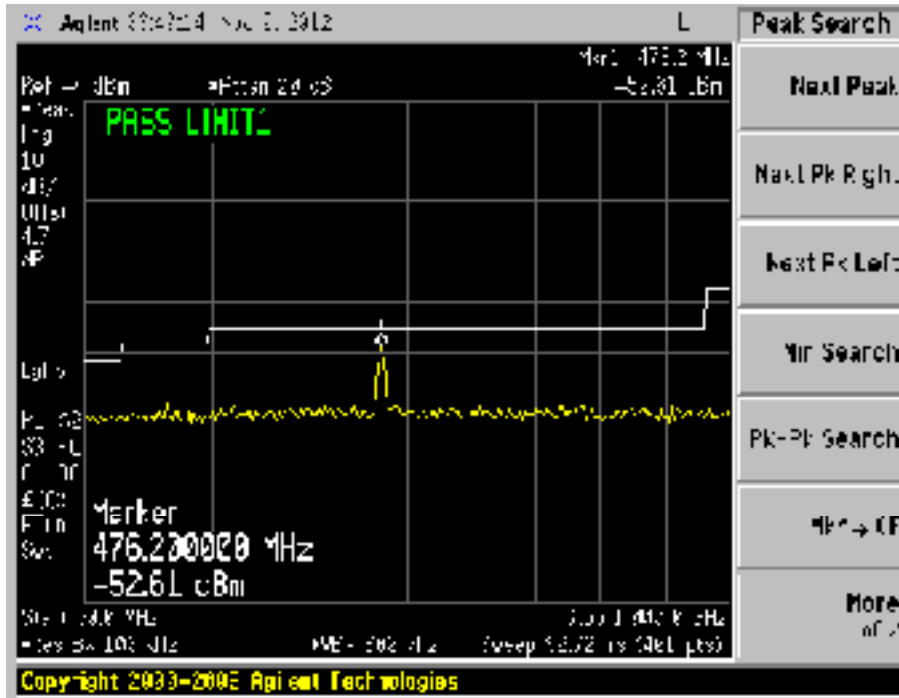


Plot 468 – Channel 6 (middle ch) @ 64QAM 54Mbps

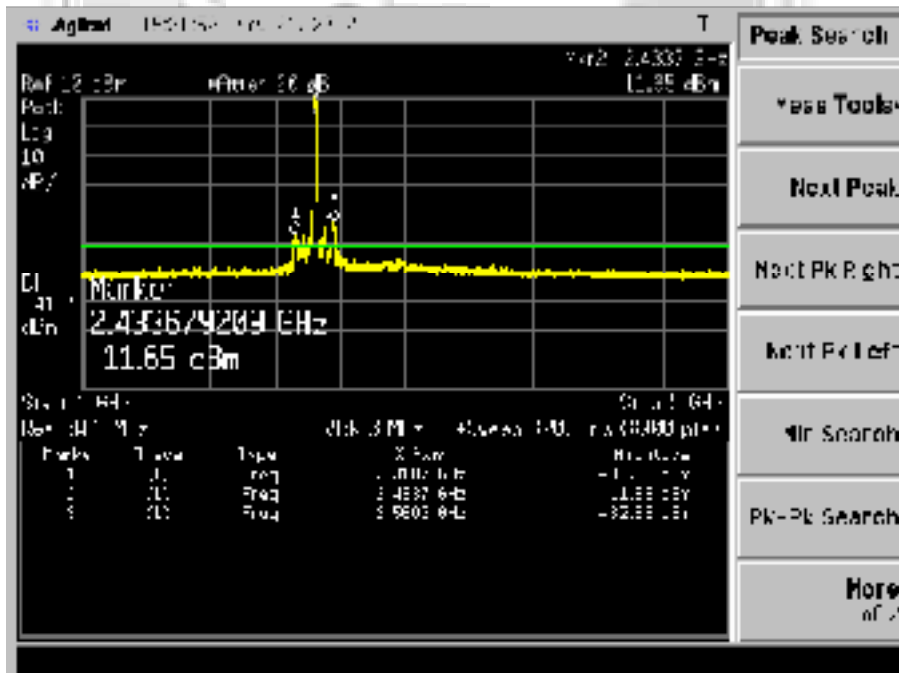


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 469 – Channel 6 (middle ch) @ 64QAM 54Mbps



Plot 470 – Channel 6 (middle ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 471 – Channel 6 (middle ch) @ 64QAM 54Mbps

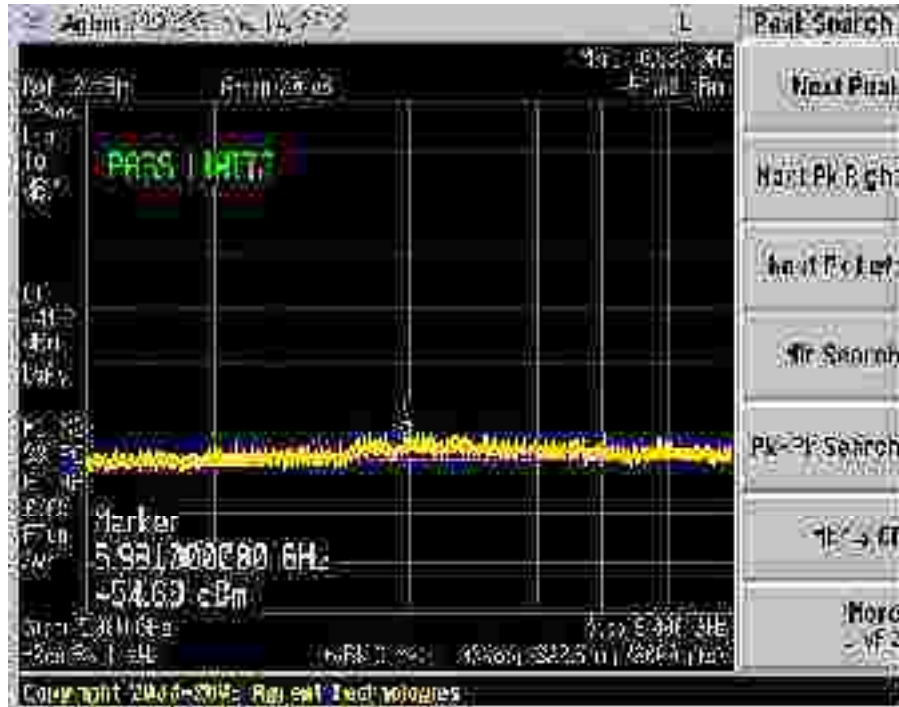


Plot 472 – Channel 6 (middle ch) @ 64QAM 54Mbps

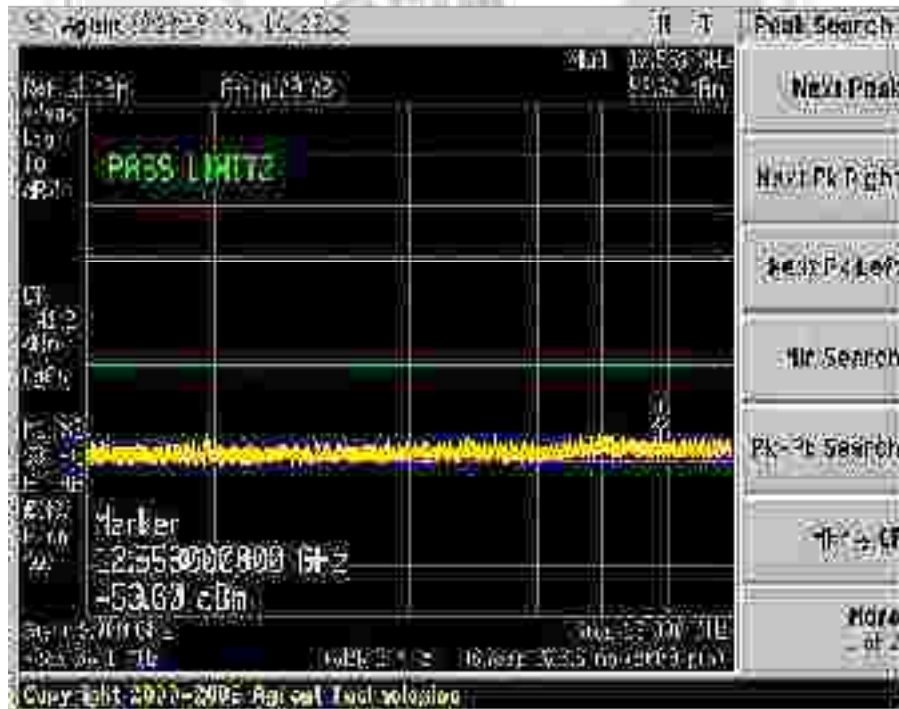


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 473 – Channel 6 (middle ch) @ 64QAM 54Mbps

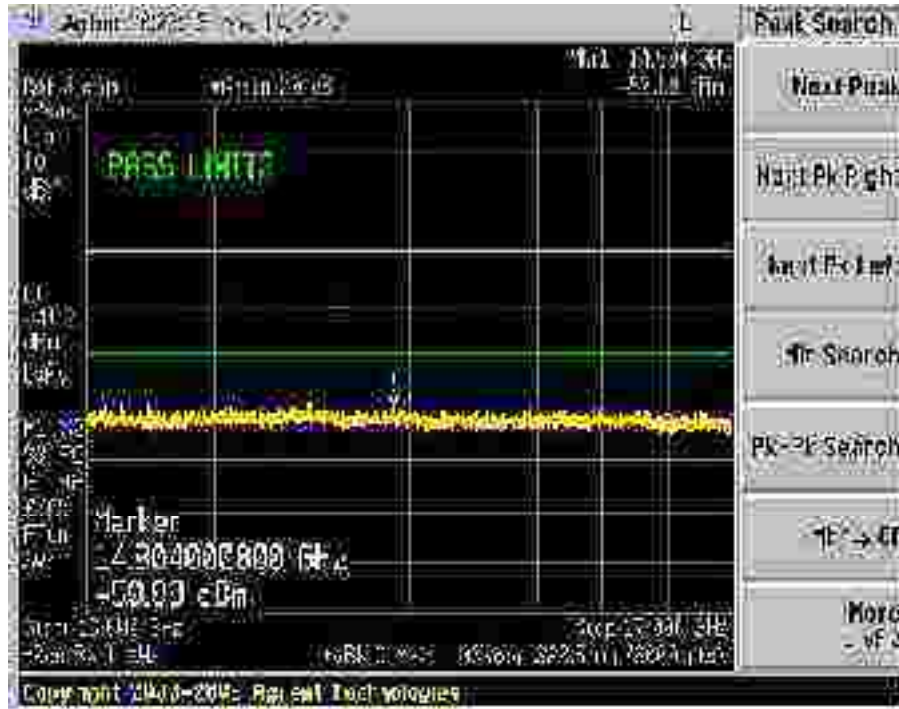


Plot 474 – Channel 6 (middle ch) @ 64QAM 54Mbps

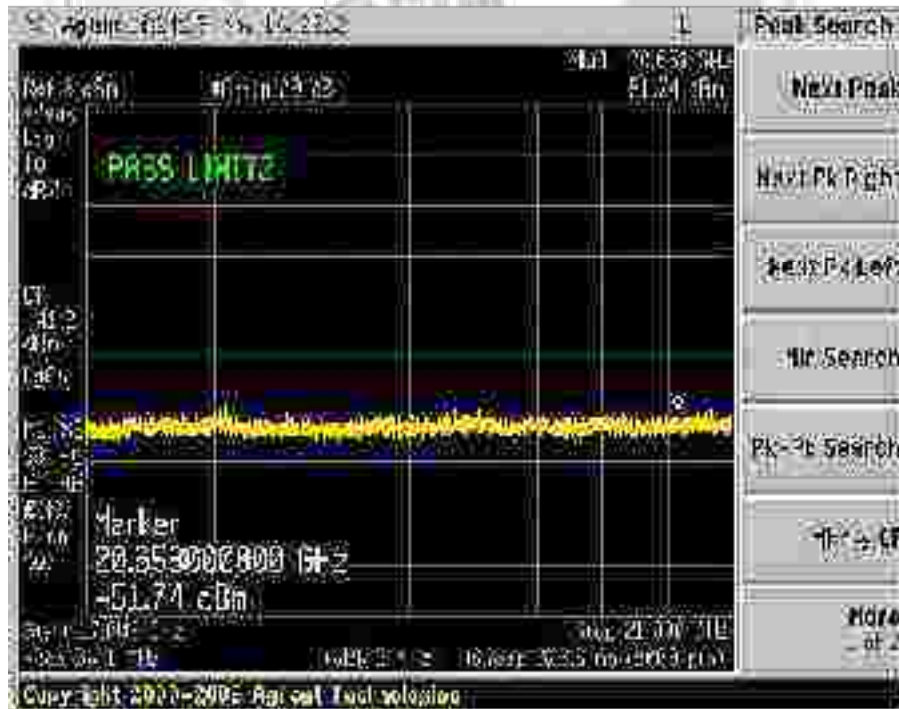


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 475 – Channel 6 (middle ch) @ 64QAM 54Mbps

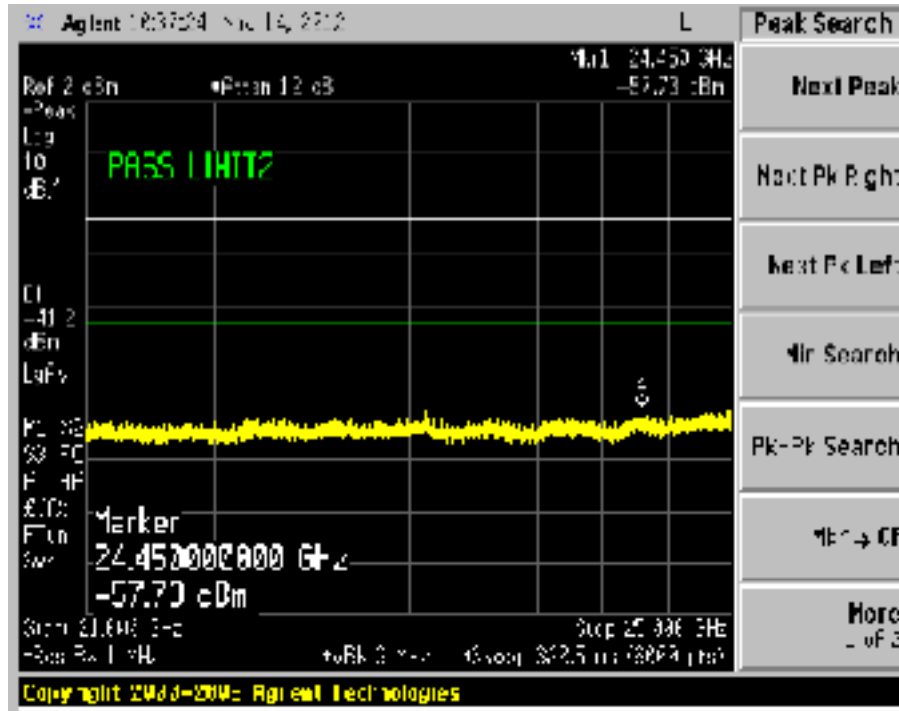


Plot 476 – Channel 6 (middle ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



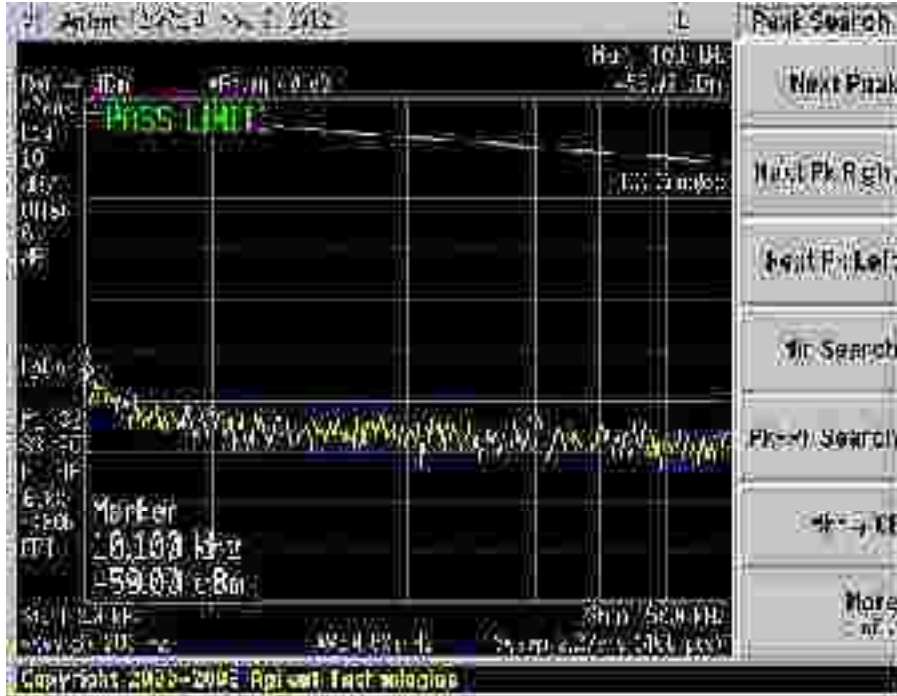
Plot 477 – Channel 6 (middle ch) @ 64QAM 54Mbps



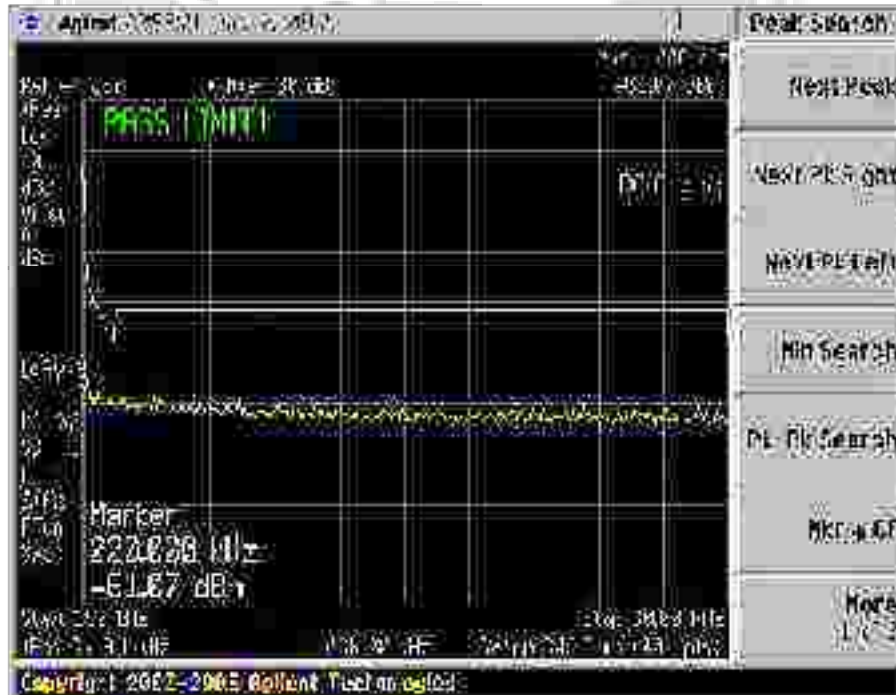


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 478 – Channel 11 (upper ch) @ DBPSK 1Mbps

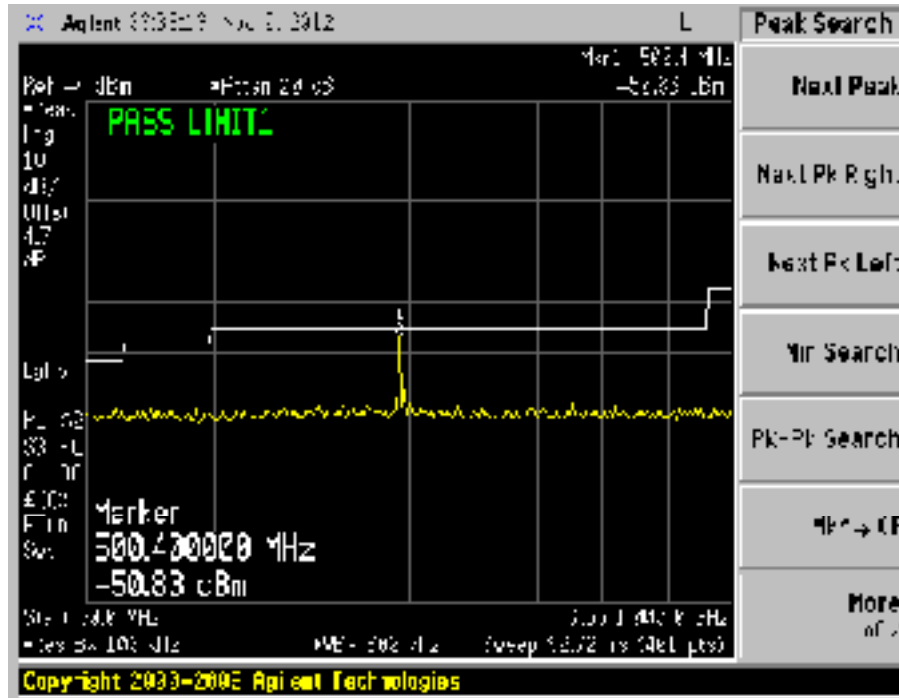


Plot 479 – Channel 11 (upper ch) @ DBPSK 1Mbps

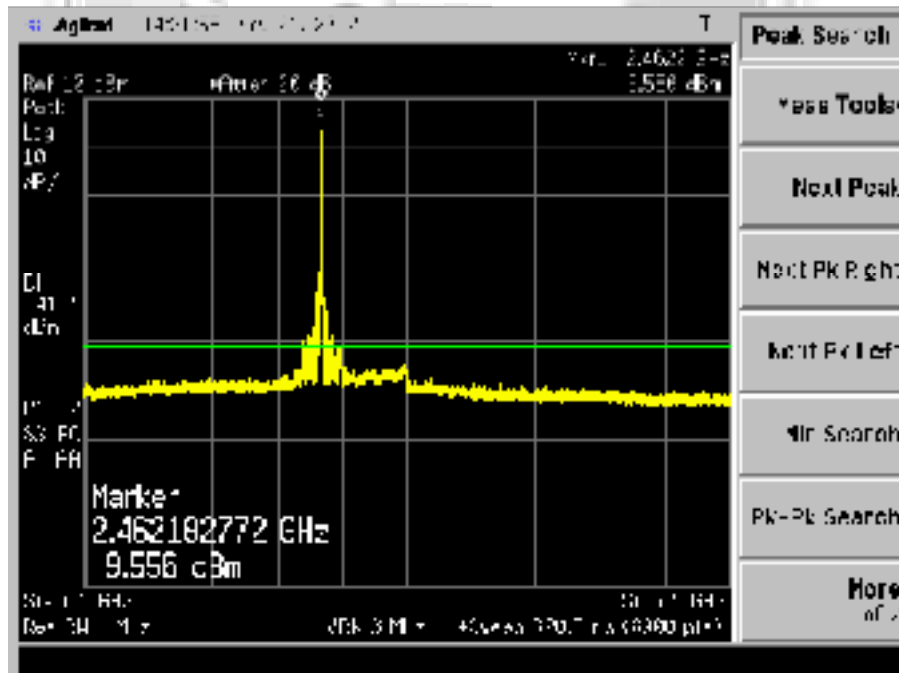


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 480 – Channel 11 (upper ch) @ DBPSK 1Mbps

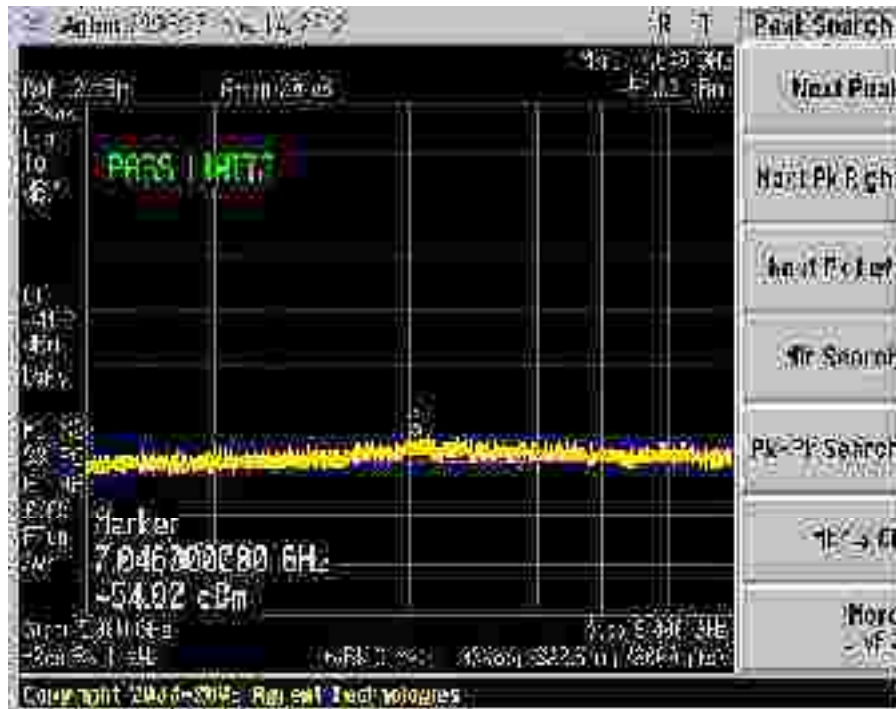


Plot 481 – Channel 11 (upper ch) @ DBPSK 1Mbps

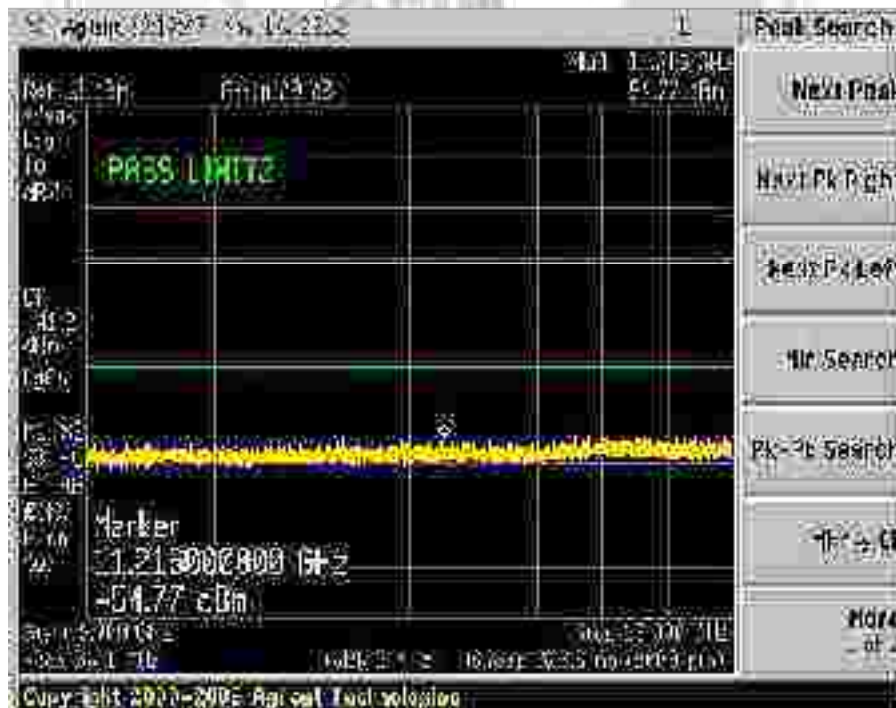


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 482 – Channel 11 (upper ch) @ DBPSK 1Mbps

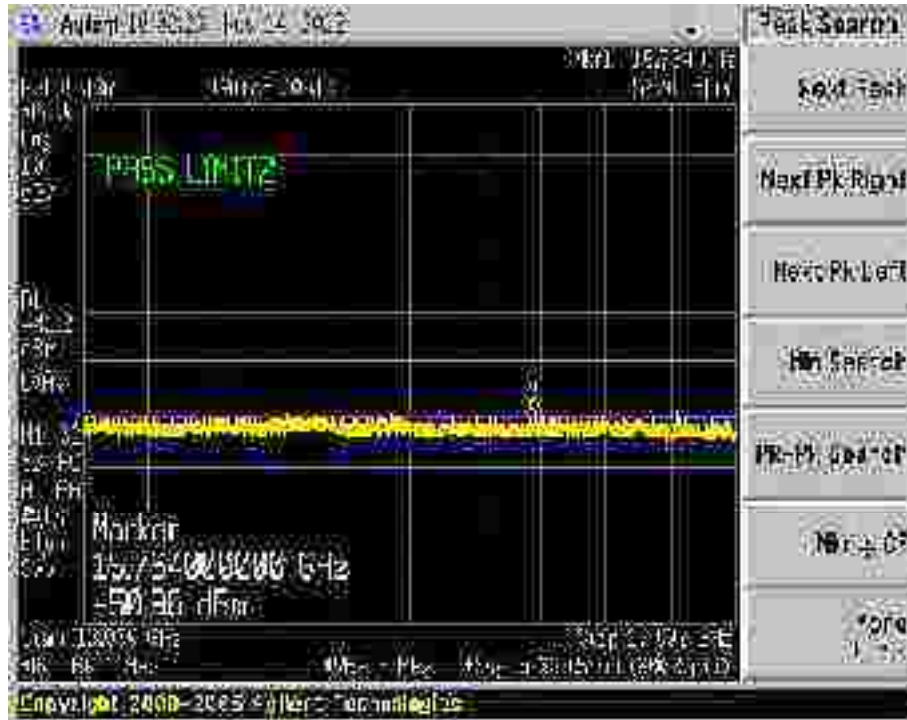


Plot 483 – Channel 11 (upper ch) @ DBPSK 1Mbps

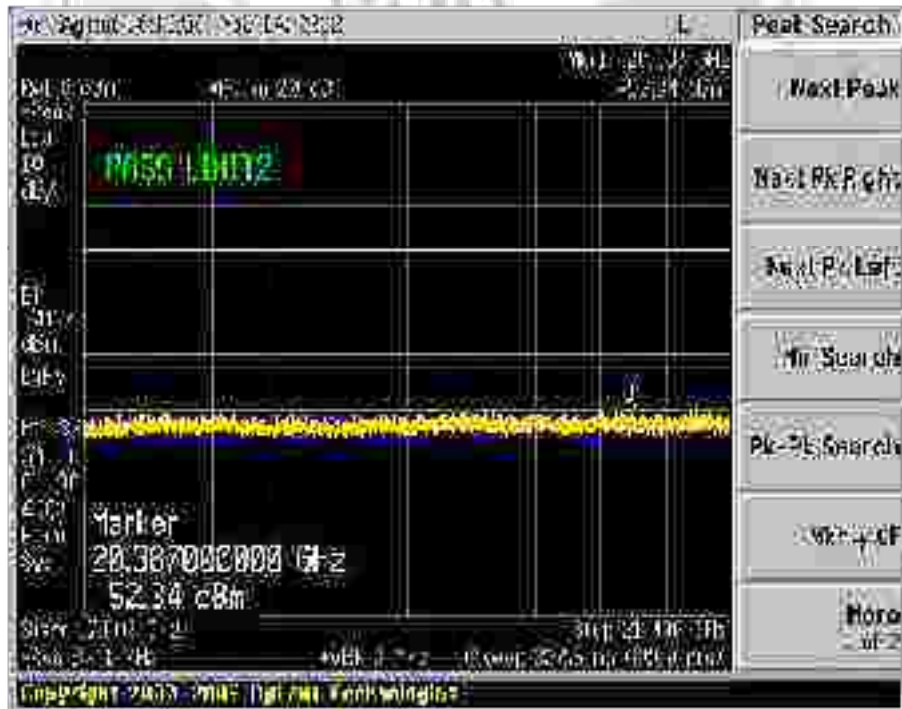


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 484 – Channel 11 (upper ch) @ DBPSK 1Mbps

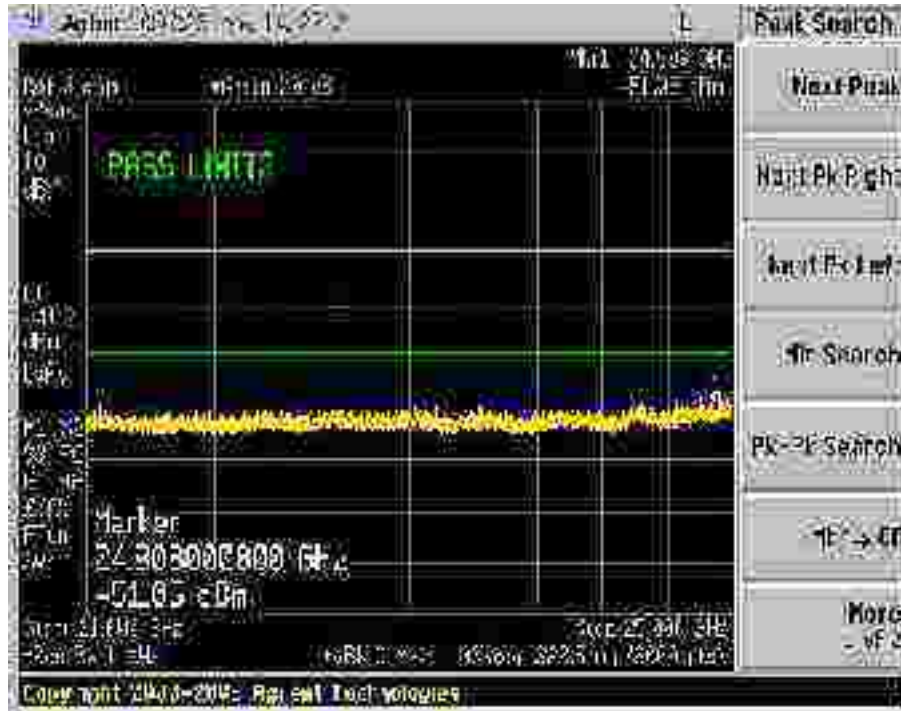


Plot 485 – Channel 11 (upper ch) @ DBPSK 1Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



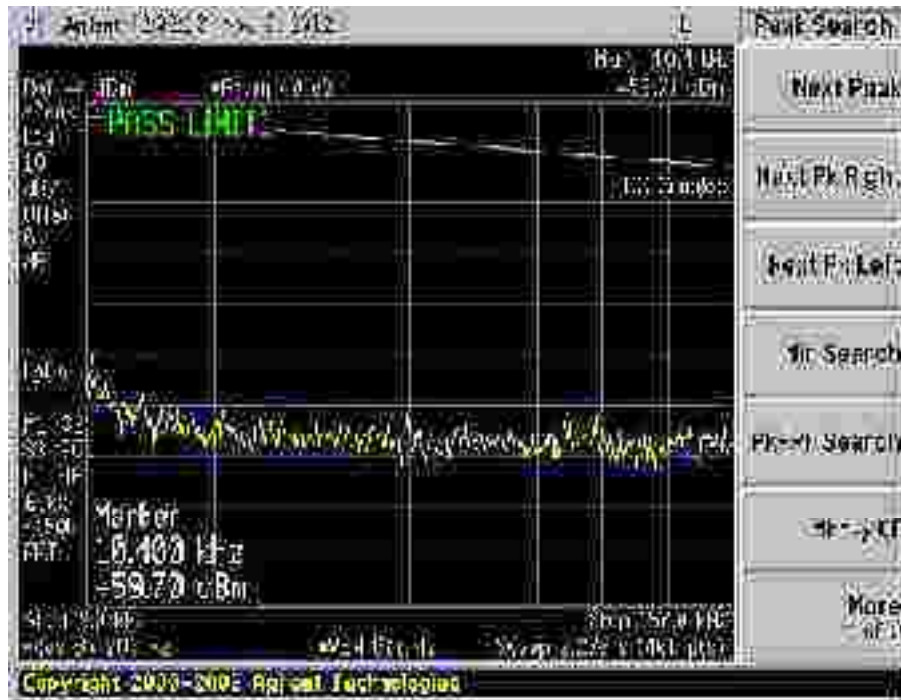
Plot 486 – Channel 11 (upper ch) @ DBPSK 1Mbps



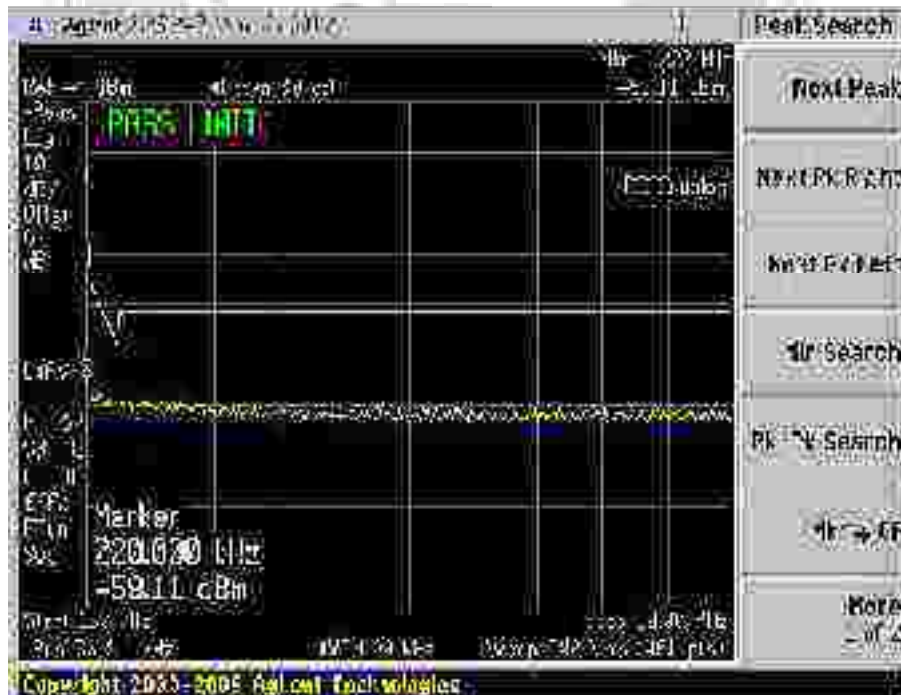


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 487 – Channel 11 (upper ch) @ DQPSK 2Mbps

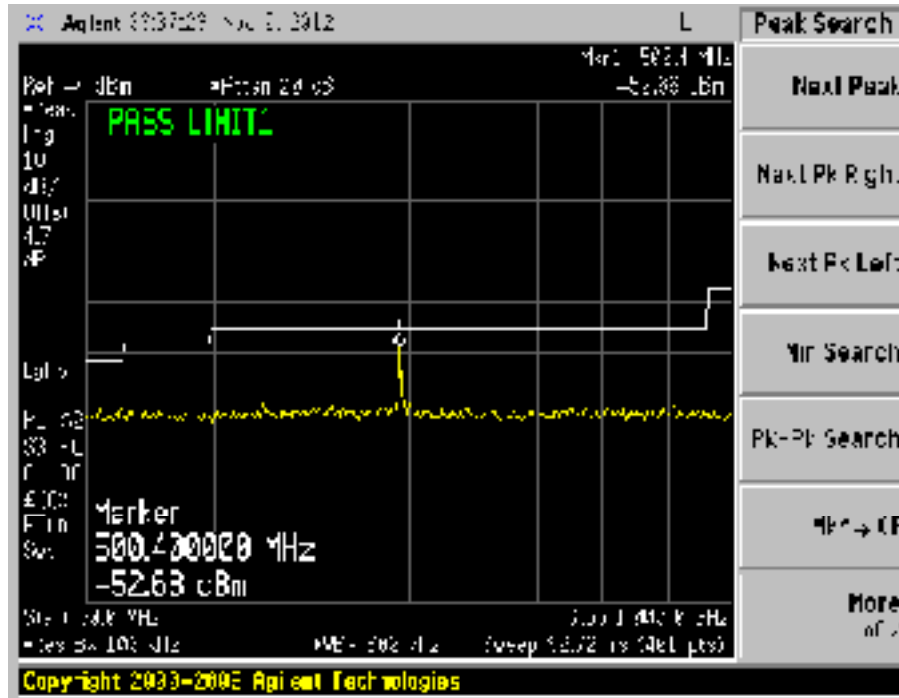


Plot 488 – Channel 11 (upper ch) @ DQPSK 2Mbps

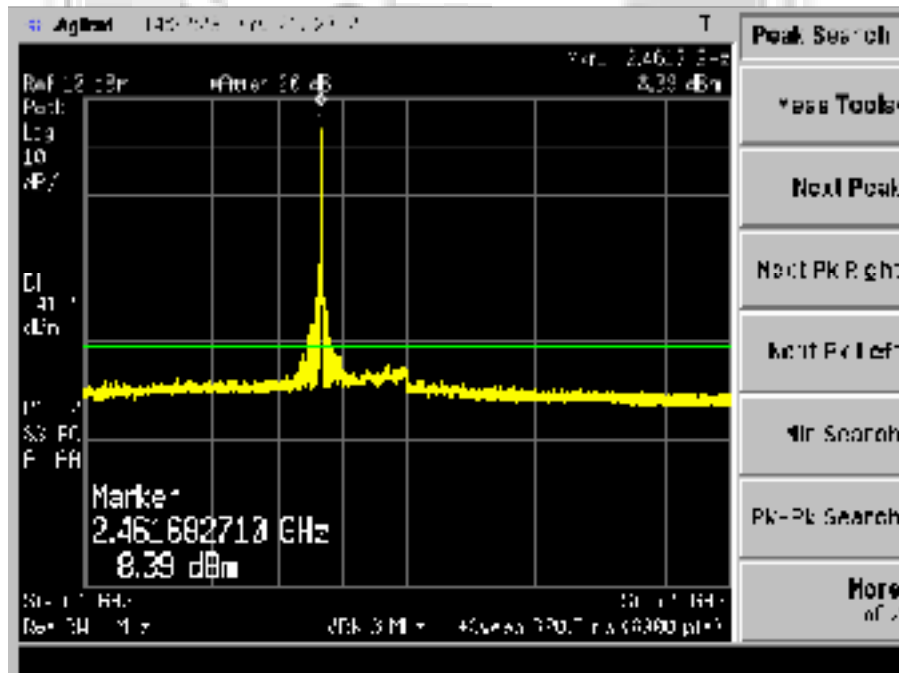


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 489 – Channel 11 (upper ch) @ DQPSK 2Mbps

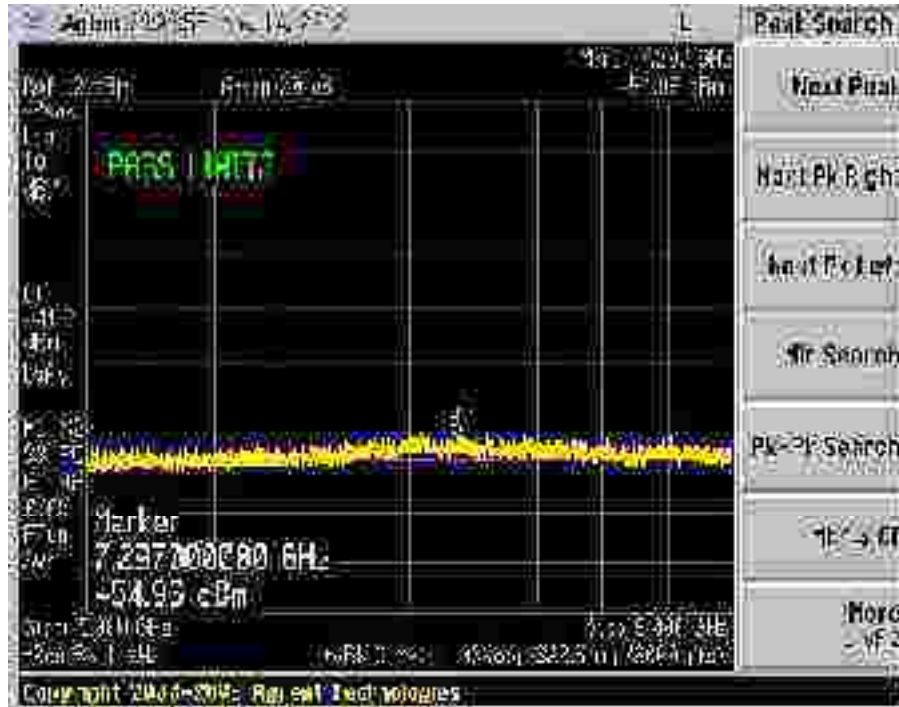


Plot 490 – Channel 11 (upper ch) @ DQPSK 2Mbps

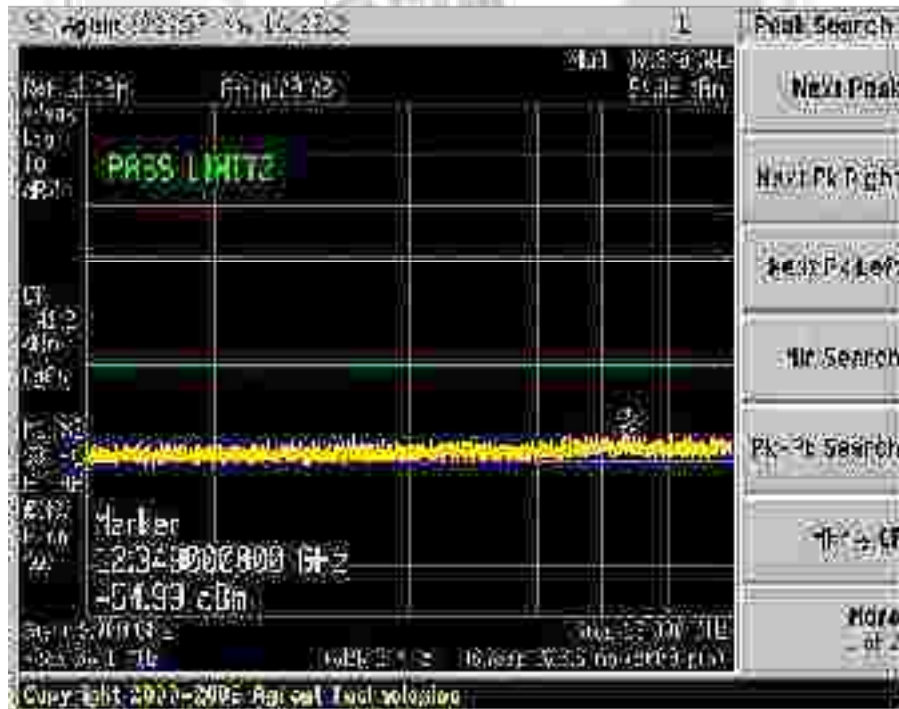


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 491 – Channel 11 (*upper ch*) @ DQPSK 2Mbps

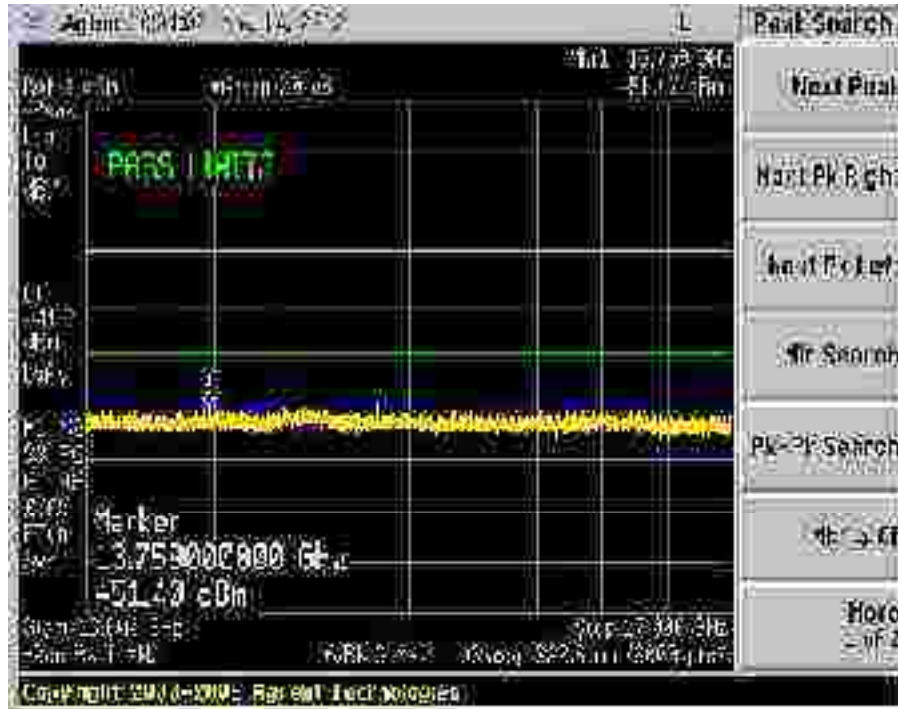


Plot 492 – Channel 11 (*upper ch*) @ DQPSK 2Mbps

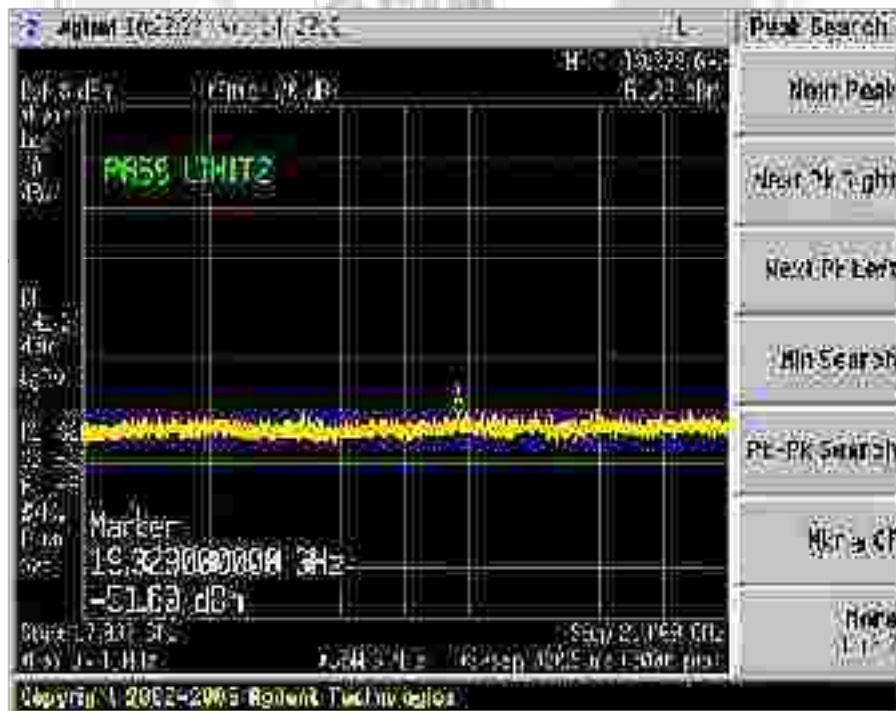


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 493 – Channel 11 (upper ch) @ CCK 2Mbps

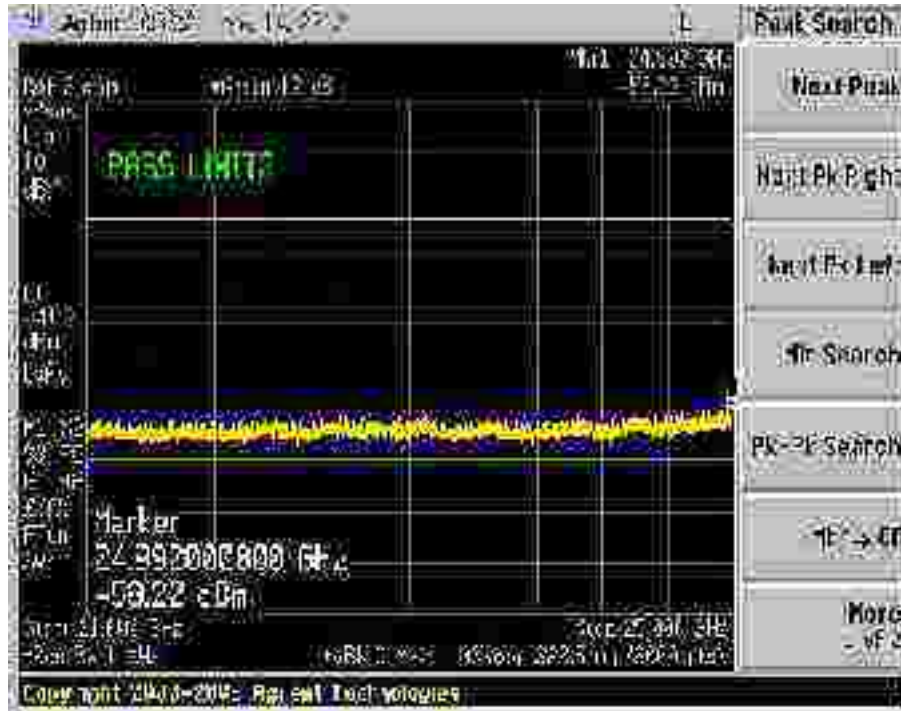


Plot 494 – Channel 11 (upper ch) @ CCK 2Mbps

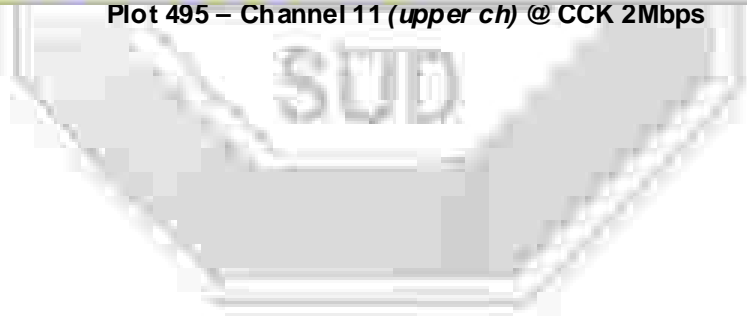


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



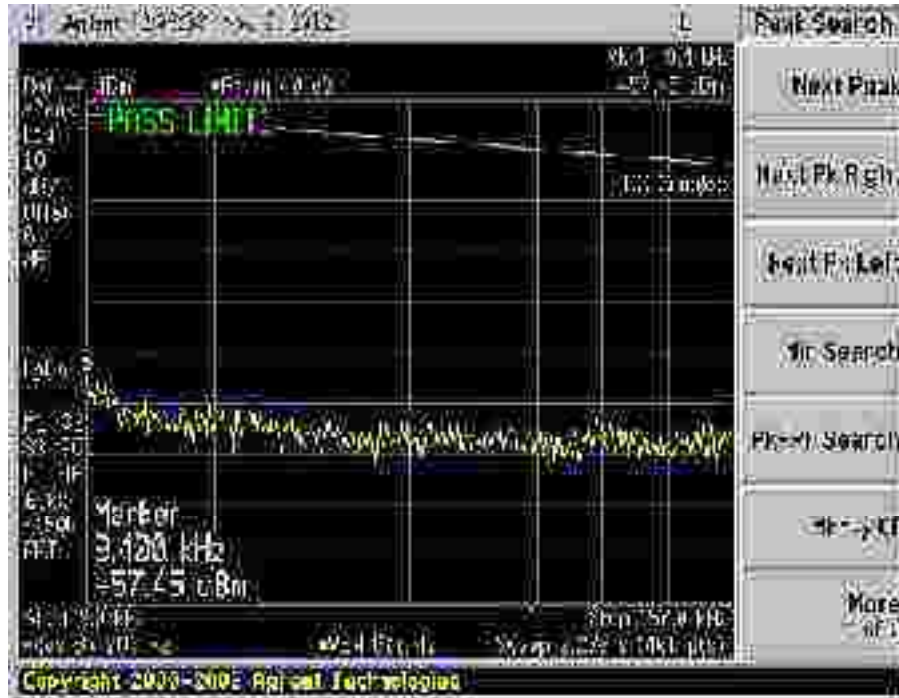
Plot 495 – Channel 11 (upper ch) @ CCK 2Mbps



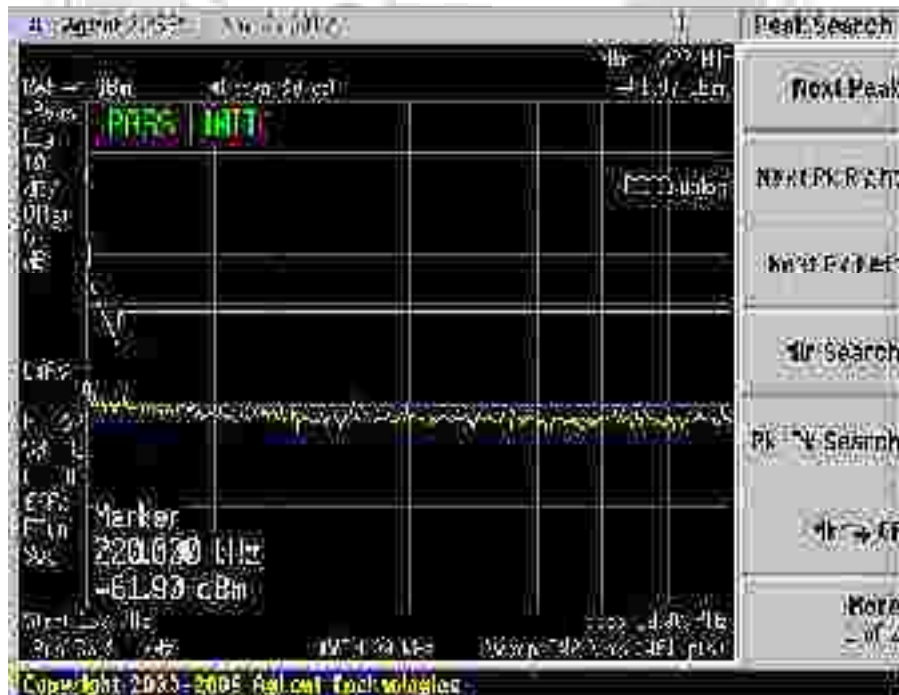


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 496 – Channel 11 (upper ch) @ CCK 11Mbps

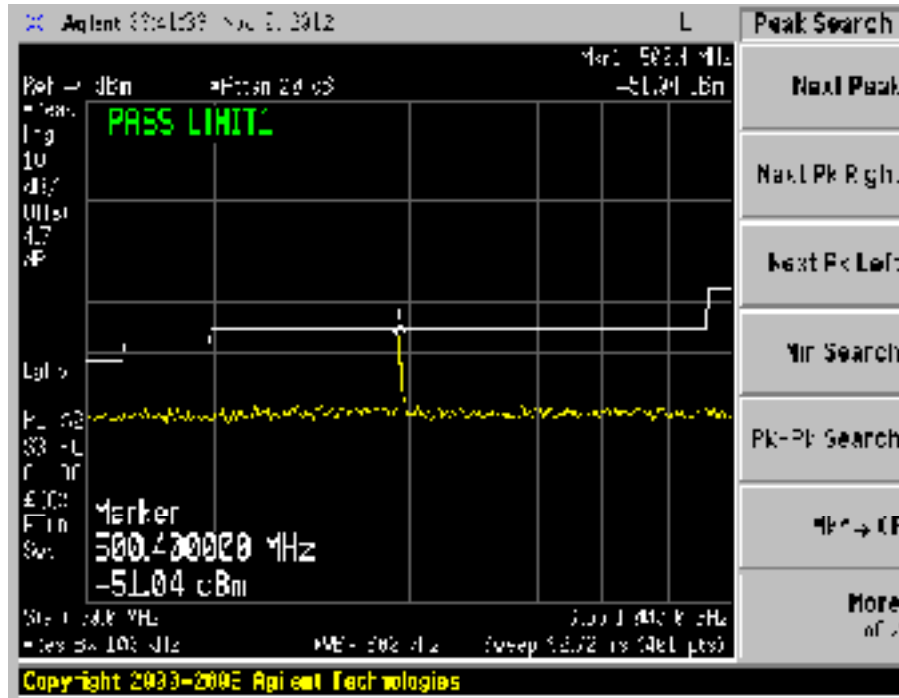


Plot 497 – Channel 11 (upper ch) @ CCK 11Mbps

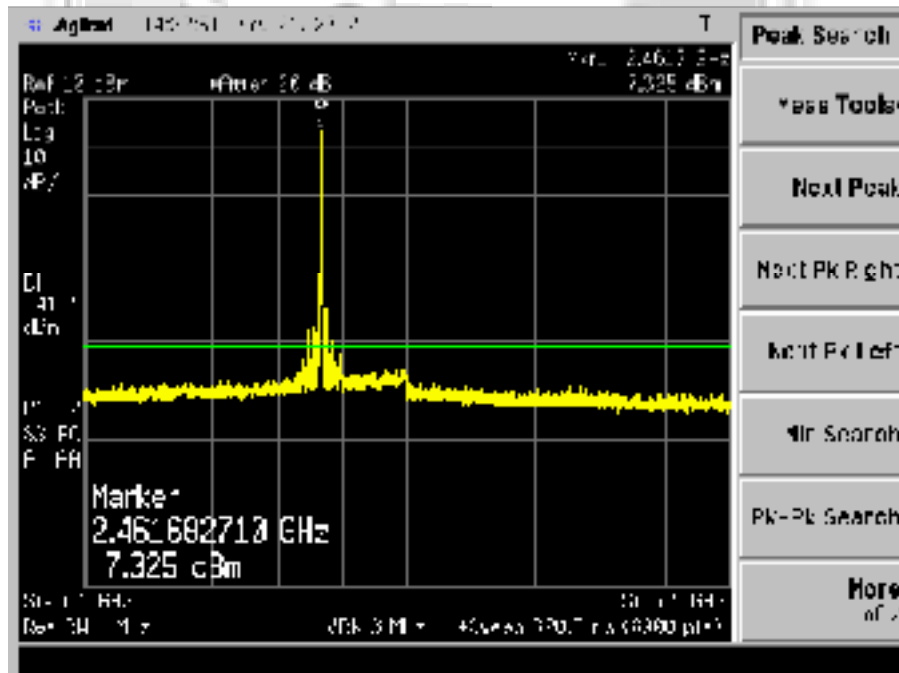


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 498 – Channel 11 (upper ch) @ CCK 11Mbps

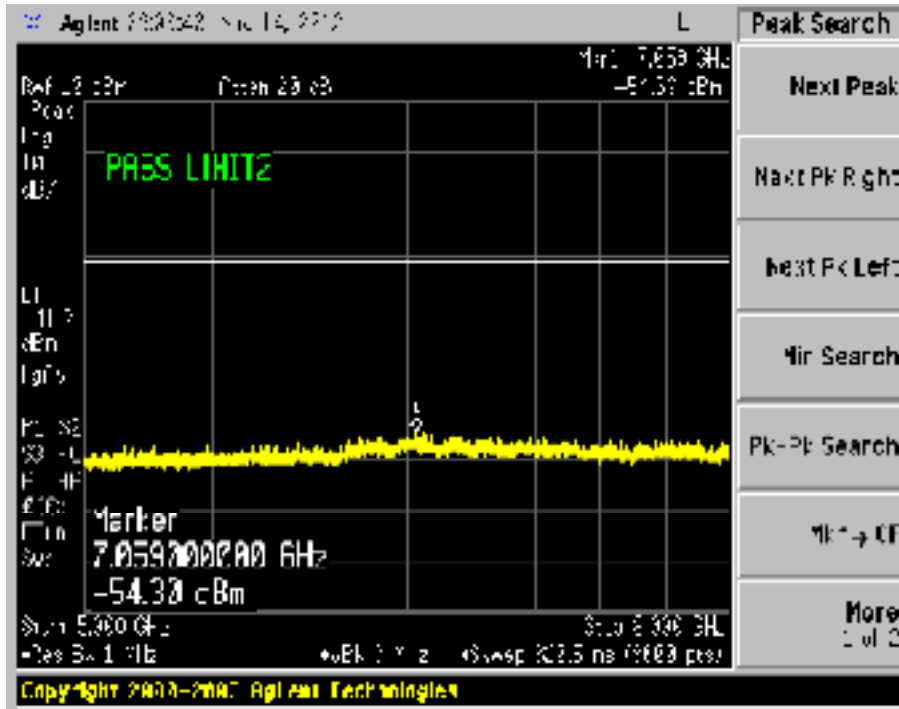


Plot 499 – Channel 11 (upper ch) @ CCK 11Mbps

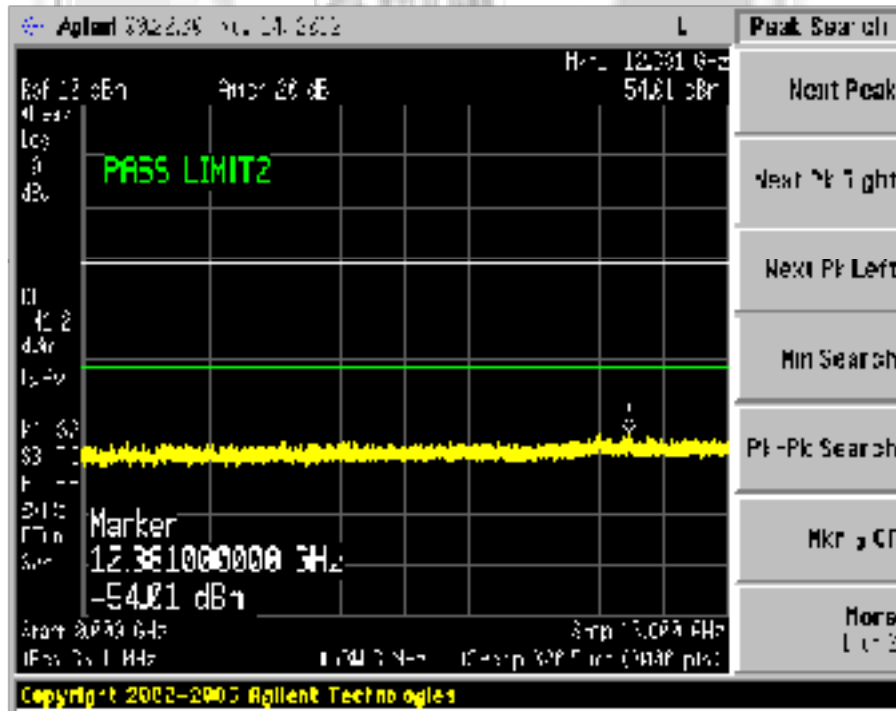


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 500 – Channel 11 (upper ch) @ CCK 11Mbps

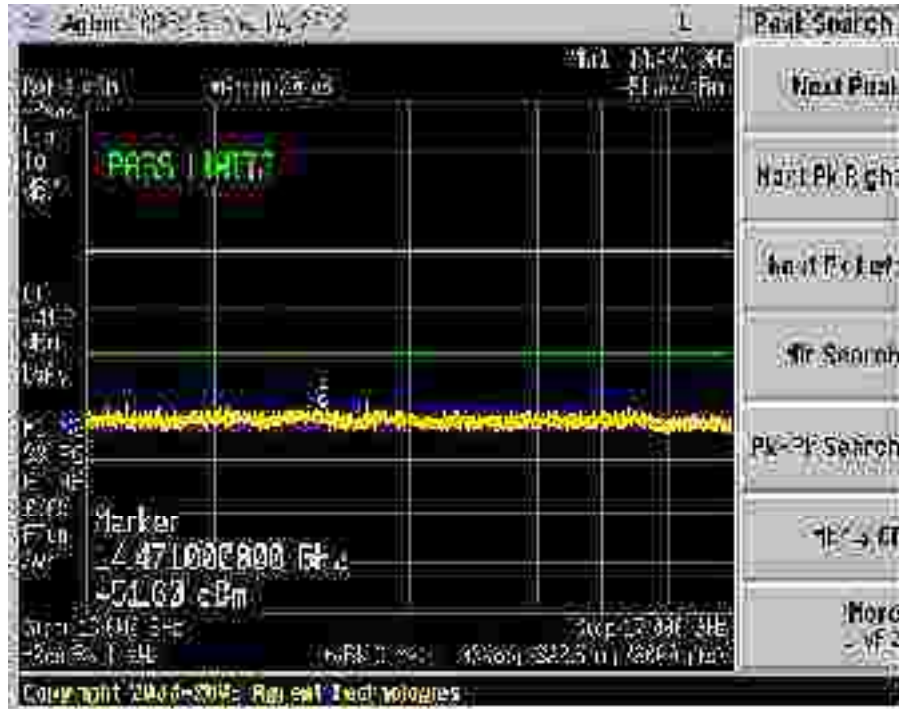


Plot 501 – Channel 11 (upper ch) @ CCK 11Mbps

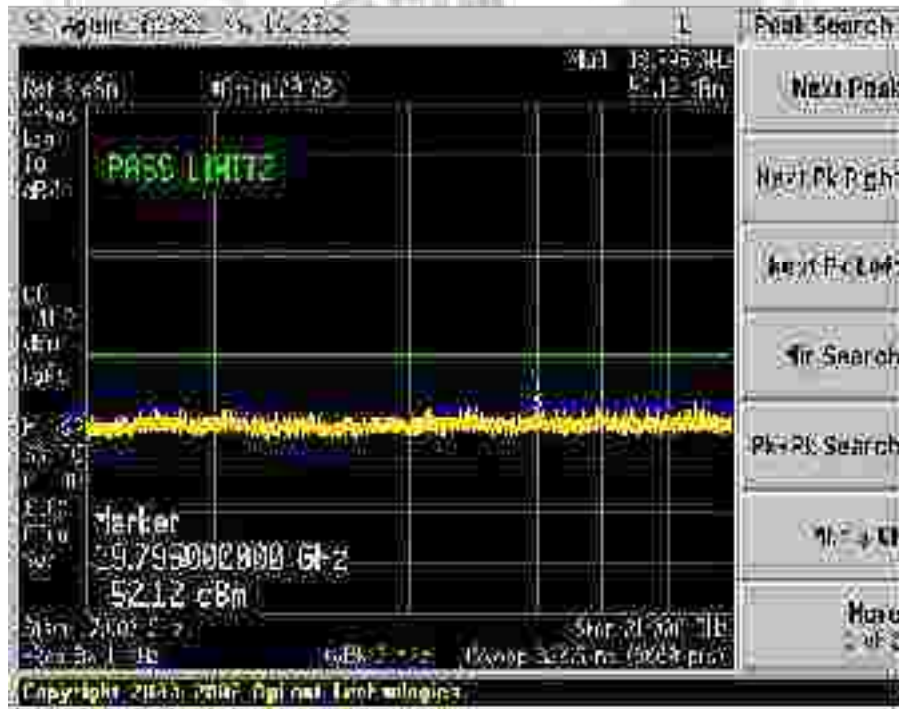


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 502 – Channel 11 (upper ch) @ CCK 11Mbps

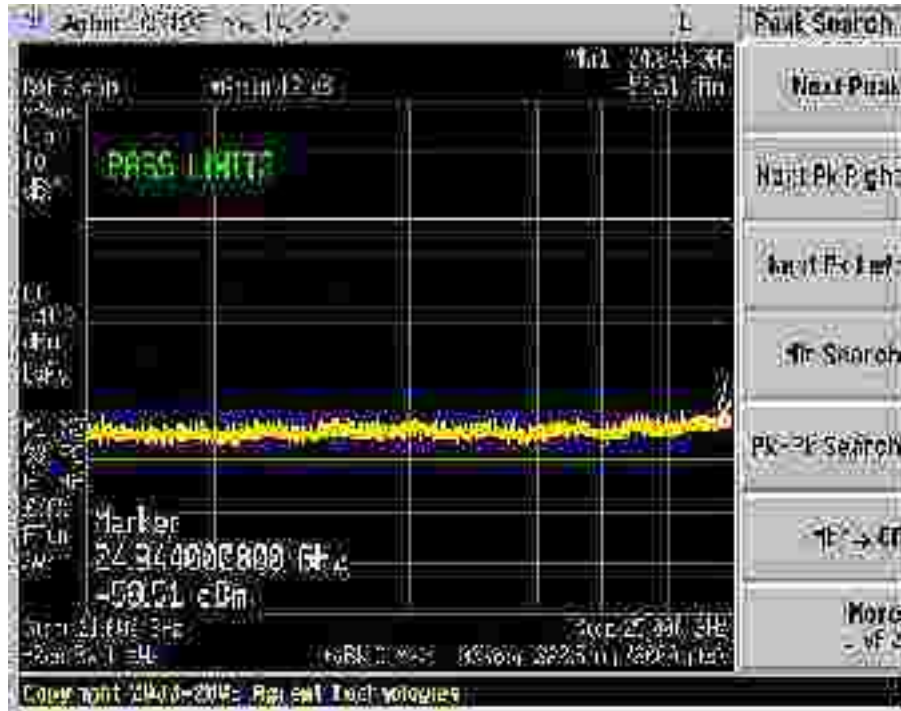


Plot 503 – Channel 11 (upper ch) @ CCK 11Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



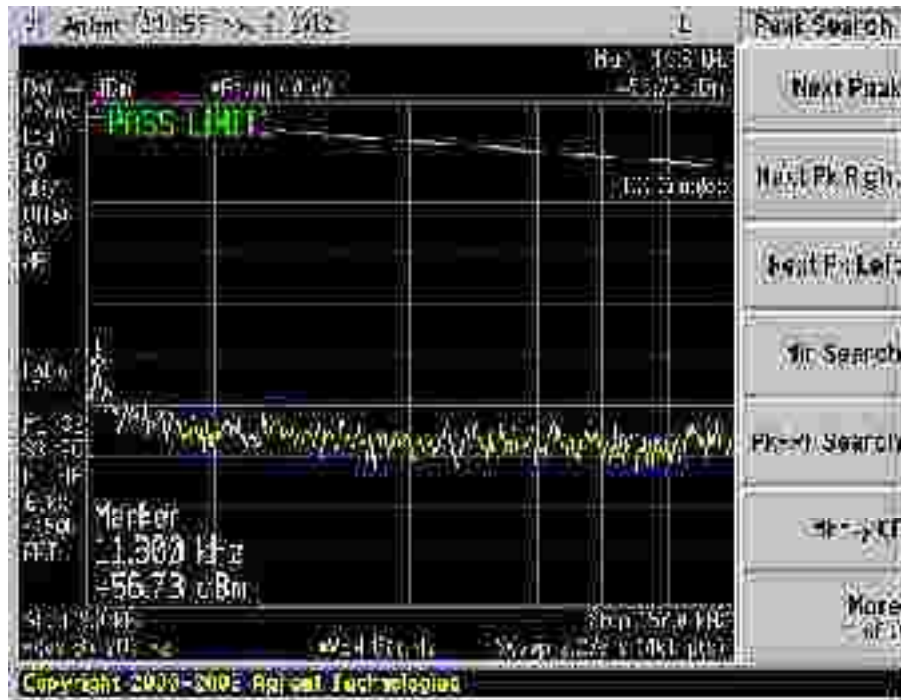
Plot 504 – Channel 11 (upper ch) @ CCK 11Mbps



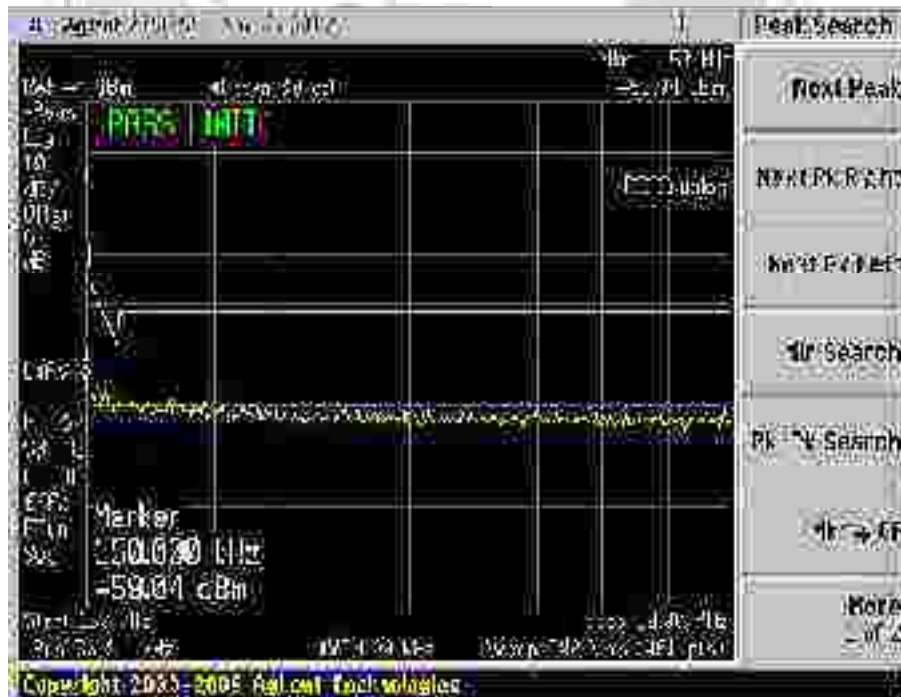


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 505 – Channel 11 (upper ch) @ BPSK 9Mbps

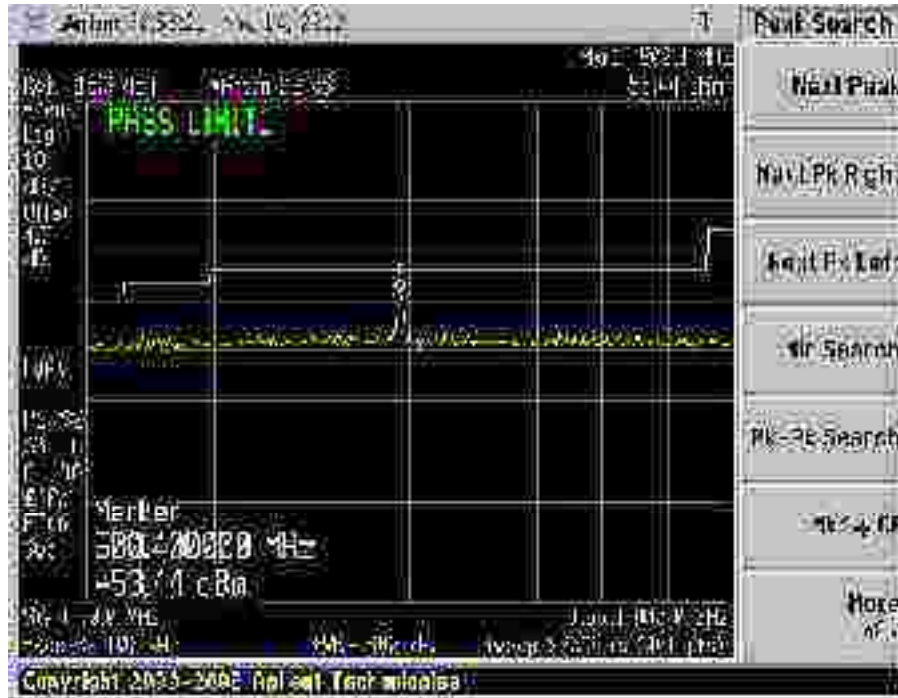


Plot 506 – Channel 11 (upper ch) @ BPSK 9Mbps

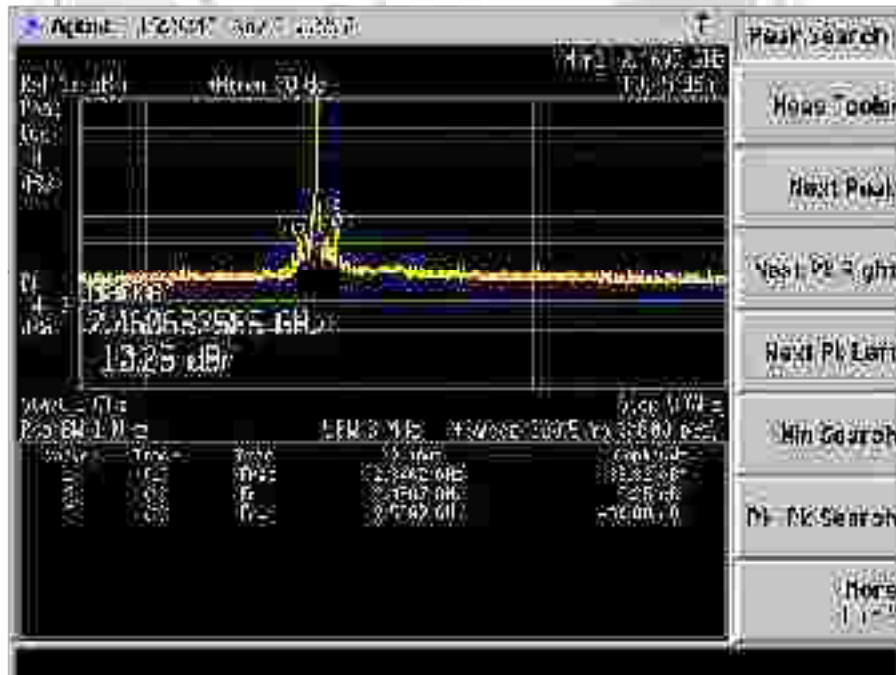


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 507 – Channel 11 (upper ch) @ BPSK 9Mbps



Plot 508 – Channel 11 (upper ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 509 – Channel 11 (upper ch) @ BPSK 9Mbps

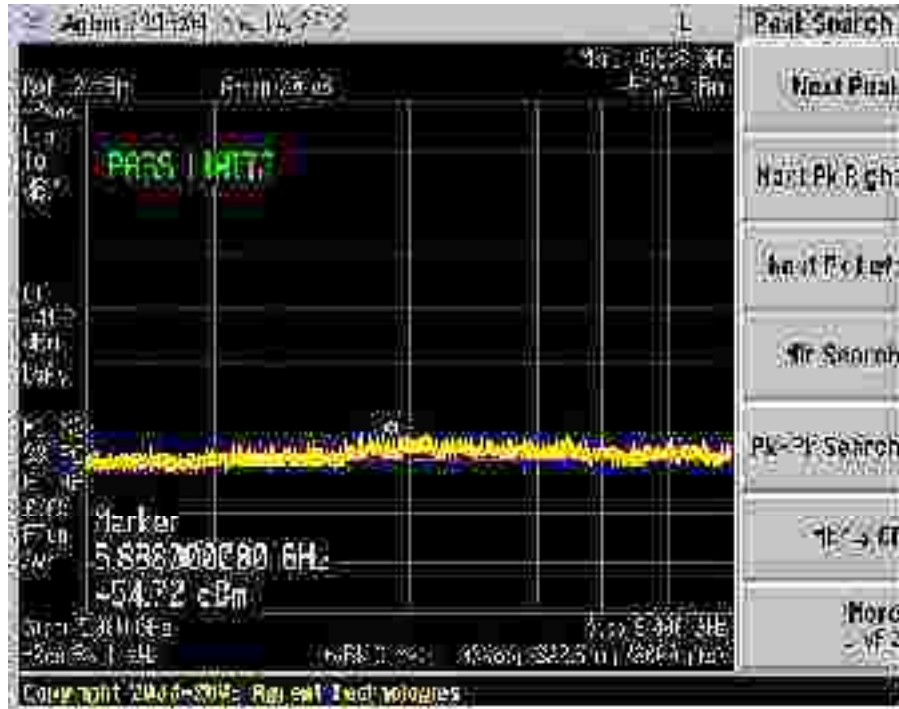


Plot 510 – Channel 11 (upper ch) @ BPSK 9Mbps

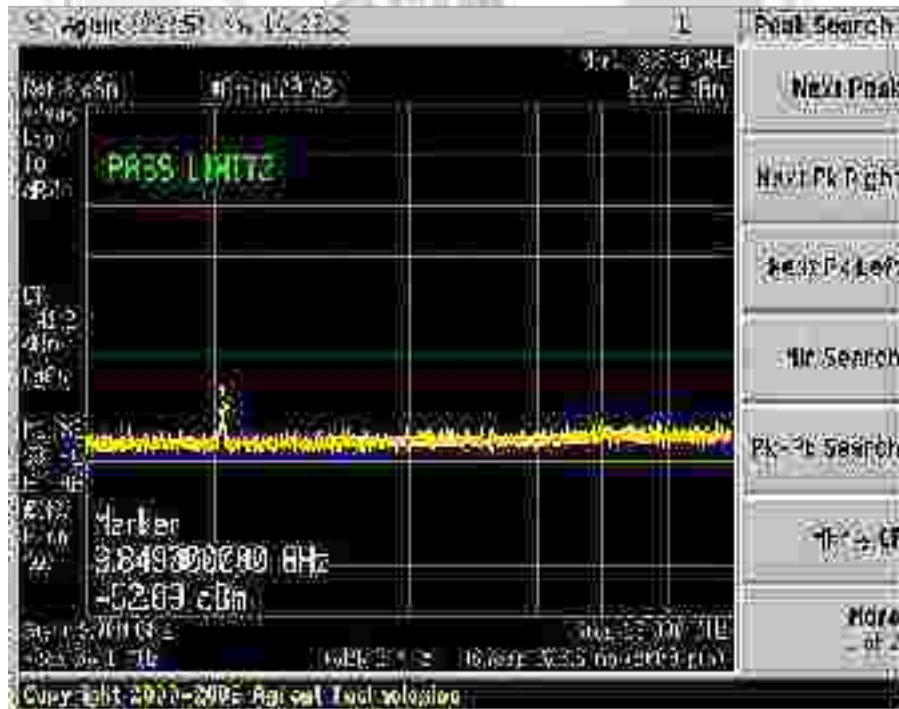


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot511 – Channel 11 (upper ch) @ BPSK 9Mbps

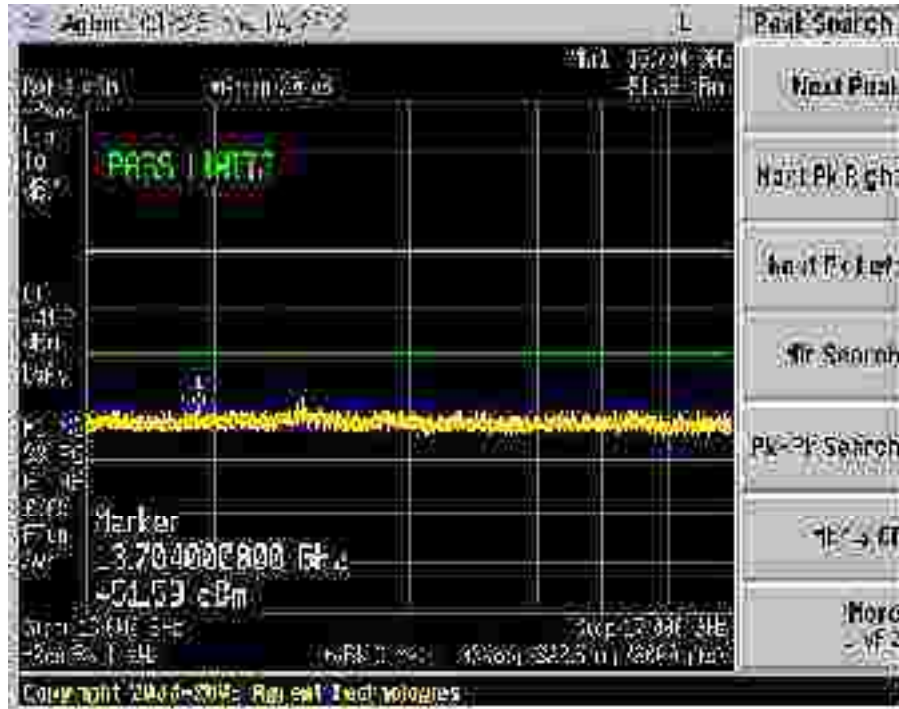


Plot512 – Channel 11 (upper ch) @ BPSK 9Mbps

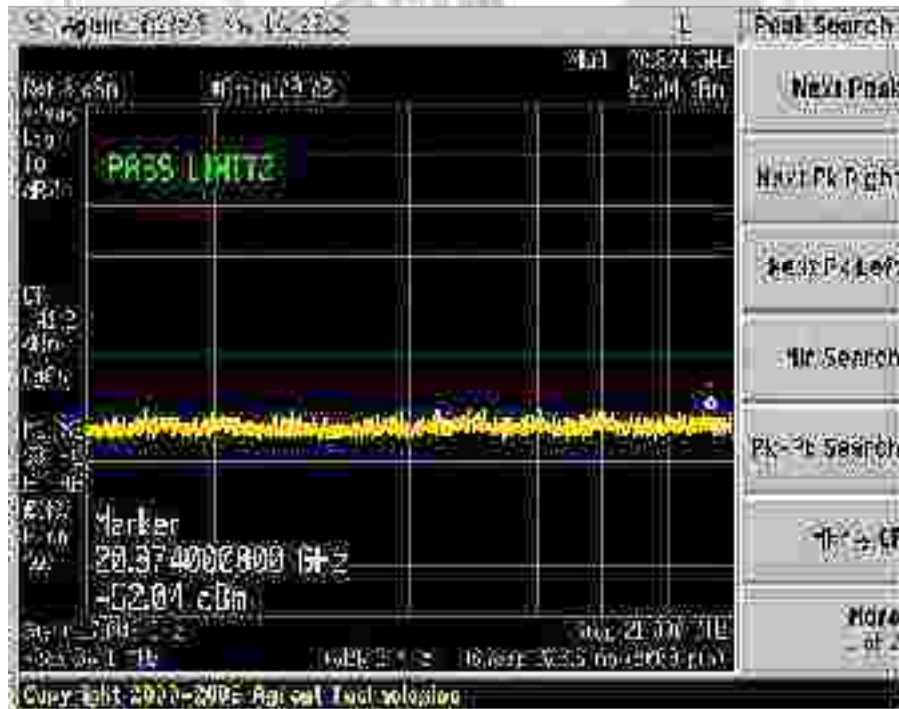


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot513 – Channel 11 (upper ch) @ BPSK 9Mbps

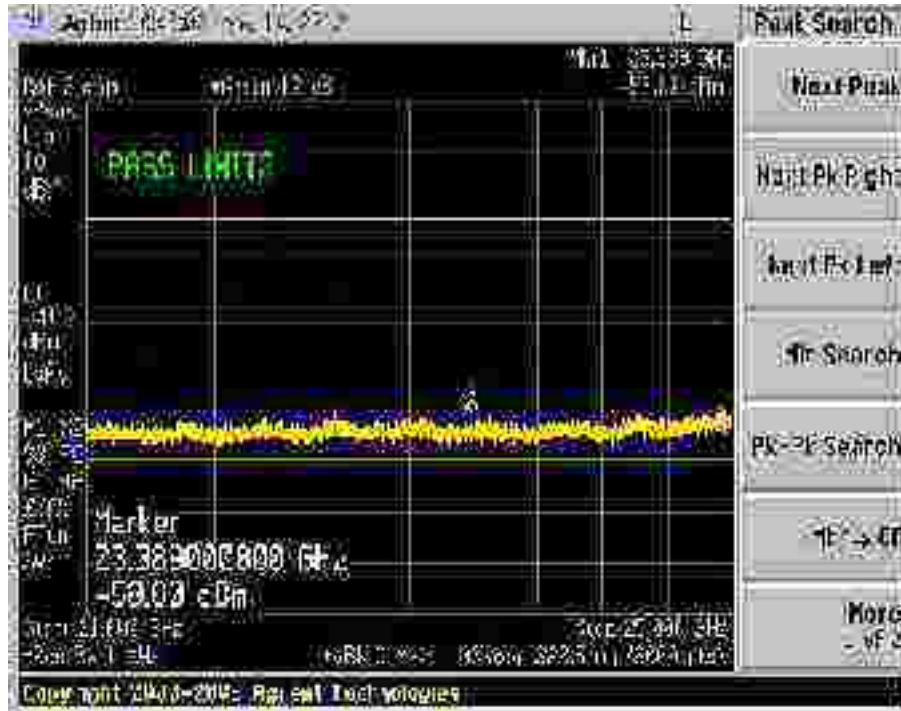


Plot514 – Channel 11 (upper ch) @ BPSK 9Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



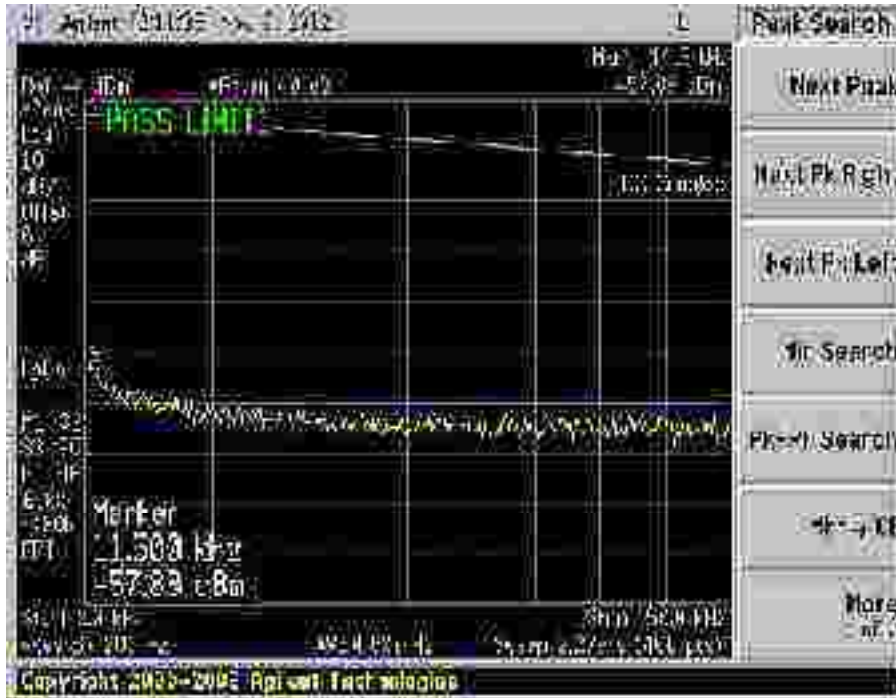
Plot 515 – Channel 11 (upper ch) @ BPSK 9Mbps



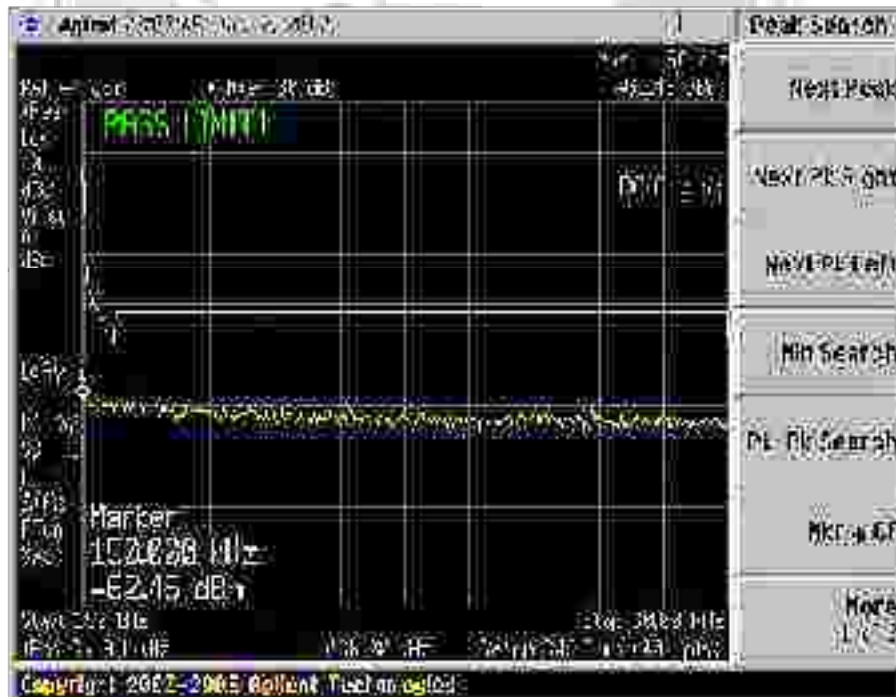


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 516 – Channel 11 (upper ch) @ QPSK 18Mbps

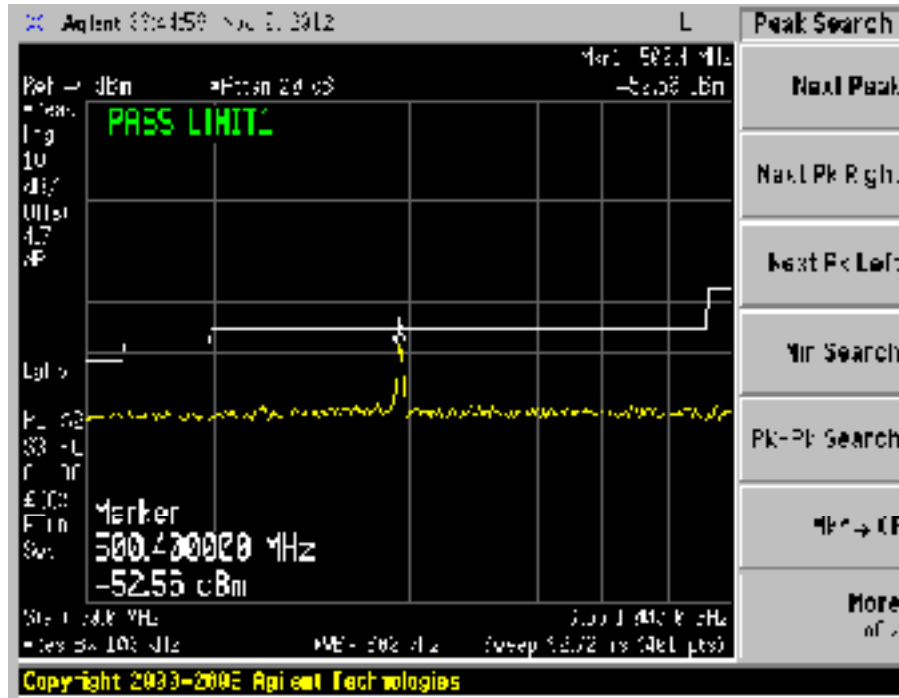


Plot 517 – Channel 11 (upper ch) @ QPSK 18Mbps

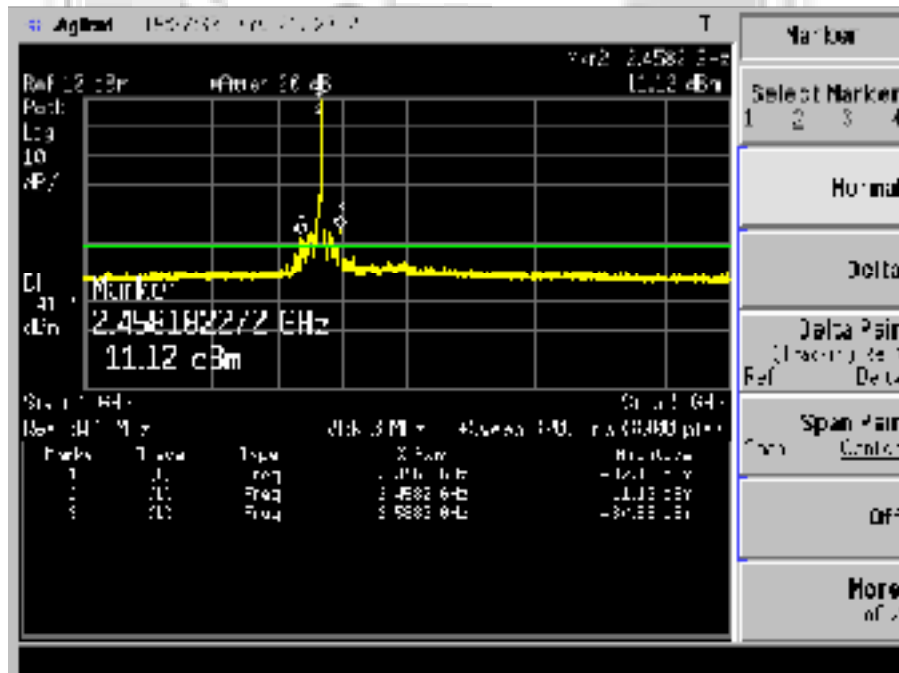


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 518 – Channel 11 (upper ch) @ QPSK 18Mbps



Plot 519 – Channel 11 (upper ch) @ QPSK 18Mbps

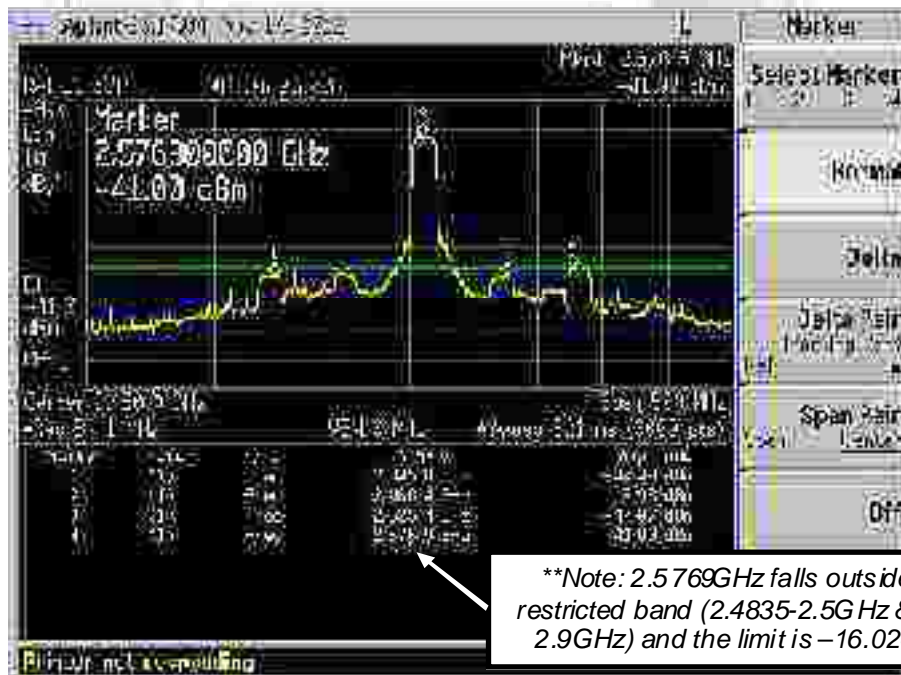


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 520 – Channel 11 (upper ch) @ QPSK 18Mbps

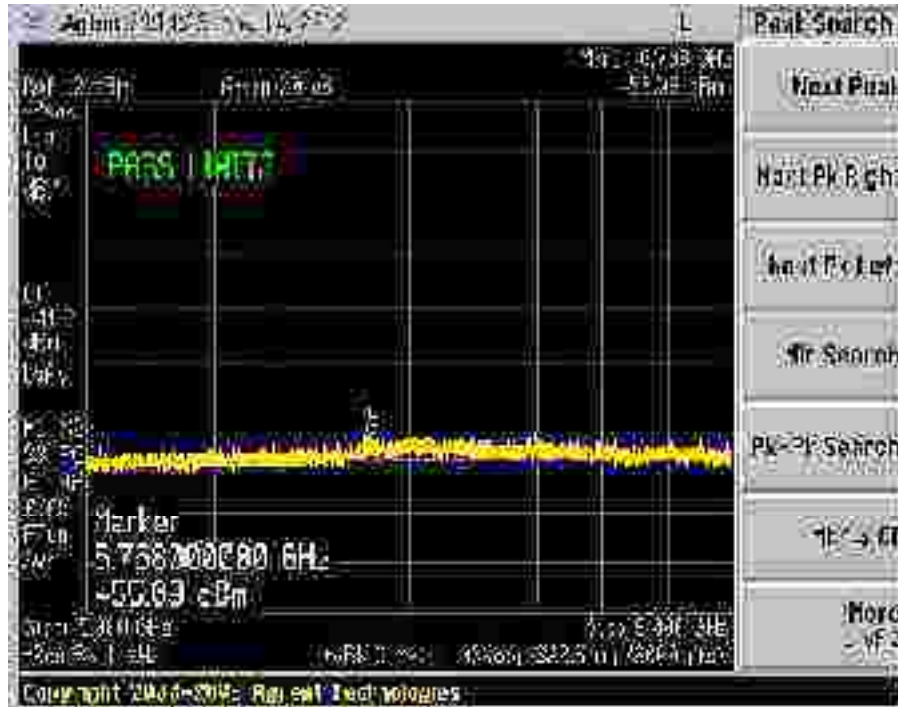


Plot 521 – Channel 11 (upper ch) @ QPSK 18Mbps

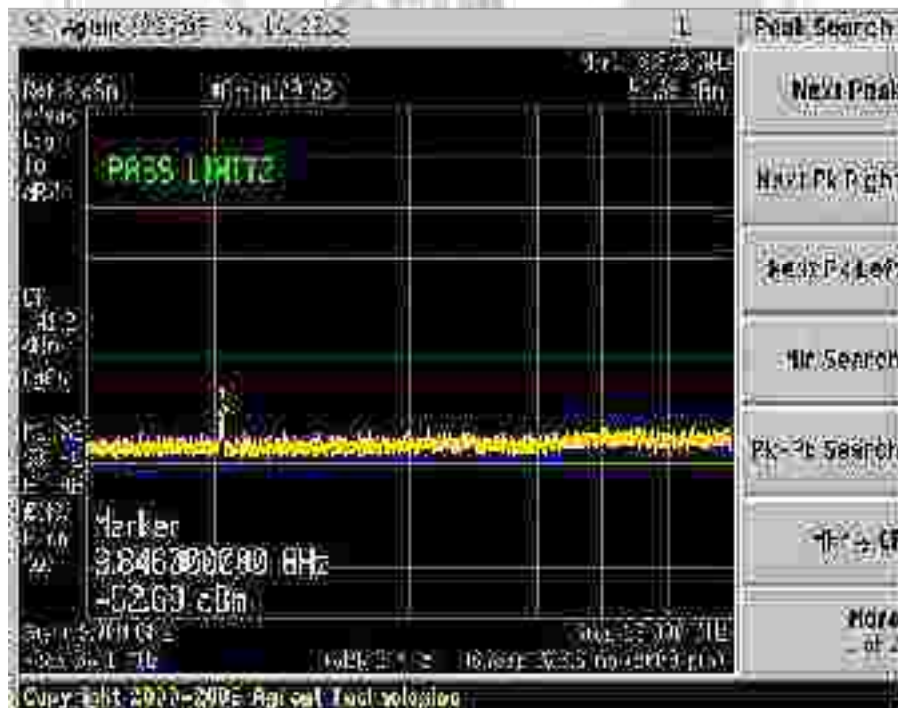


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 522 – Channel 11 (upper ch) @ QPSK 18Mbps

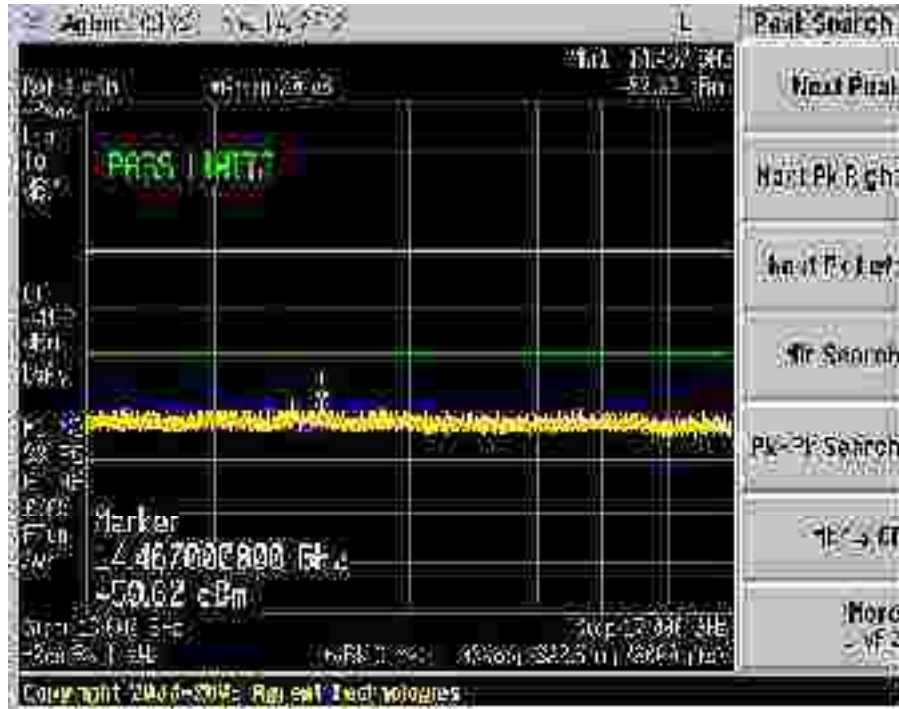


Plot 523 – Channel 11 (upper ch) @ QPSK 18Mbps

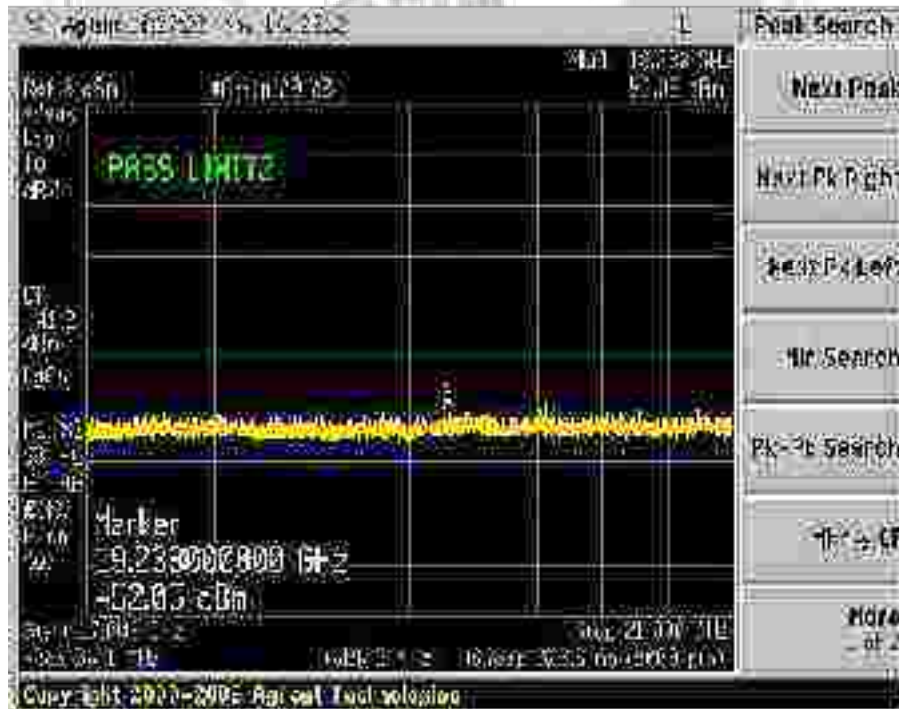


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 524 – Channel 11 (upper ch) @ QPSK 18Mbps

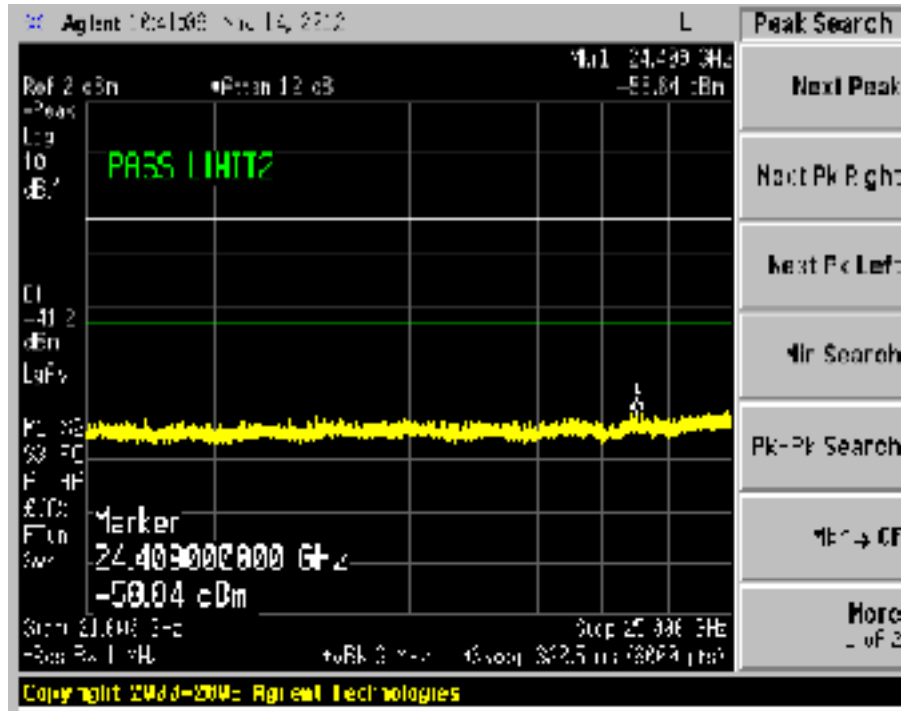


Plot 525 – Channel 11 (upper ch) @ QPSK 18Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



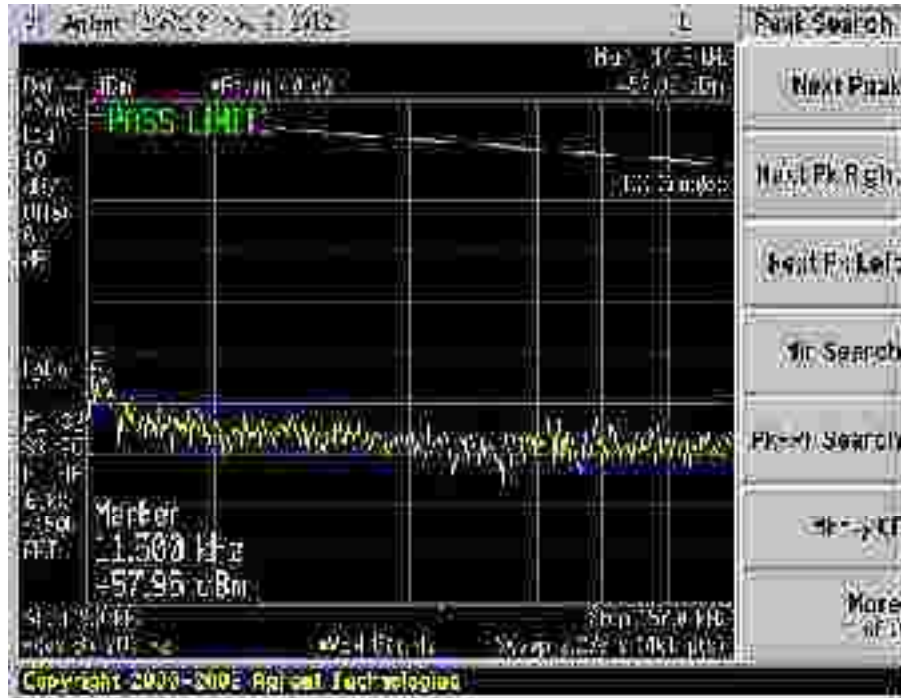
Plot 526 – Channel 11 (upper ch) @ QPSK 18Mbps



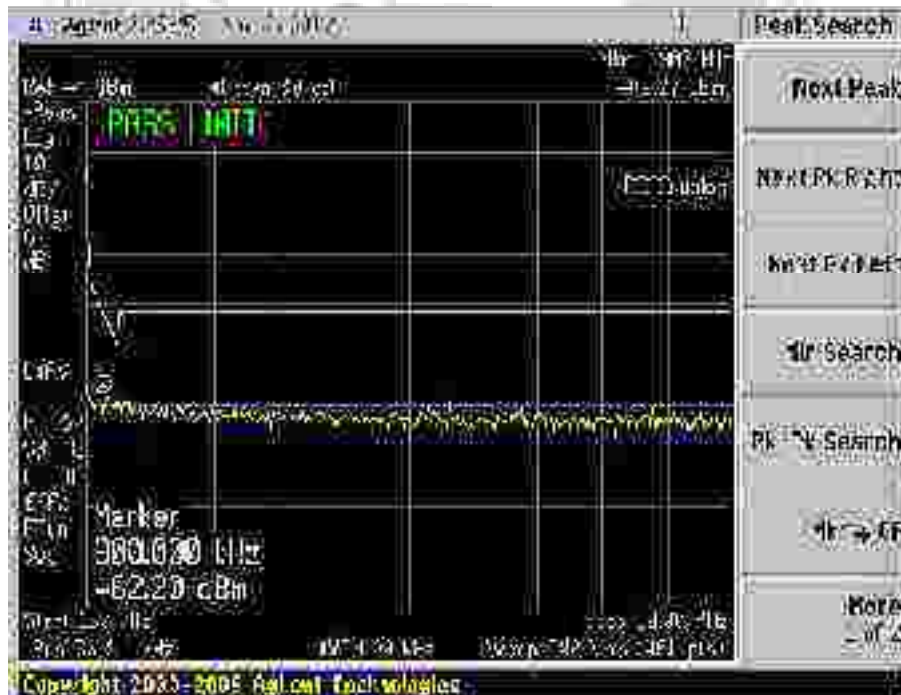


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 527 – Channel 11 (upper ch) @ 16QAM 36Mbps

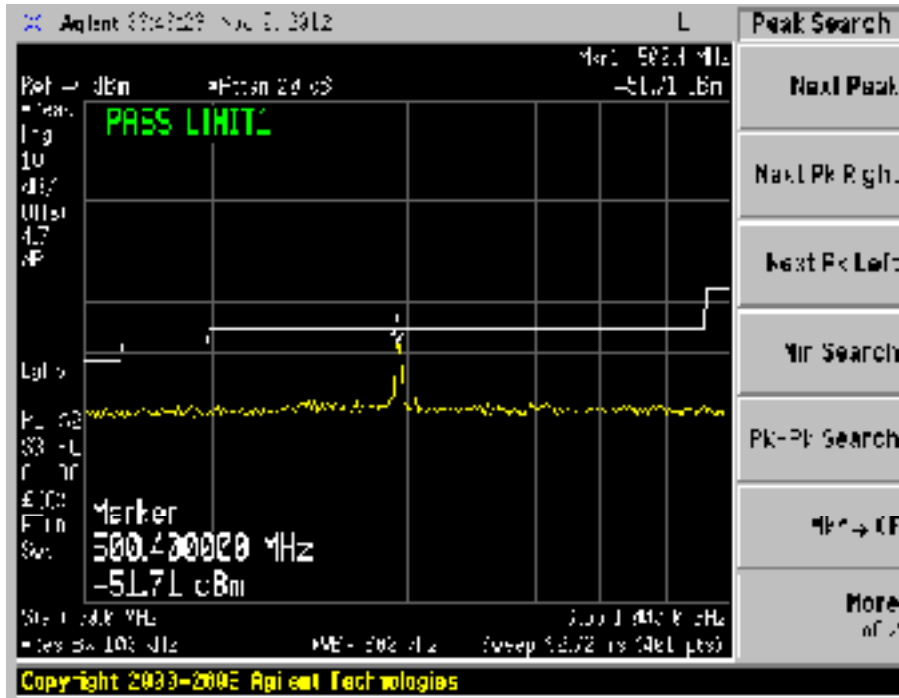


Plot 528 – Channel 11 (upper ch) @ 16QAM 36Mbps

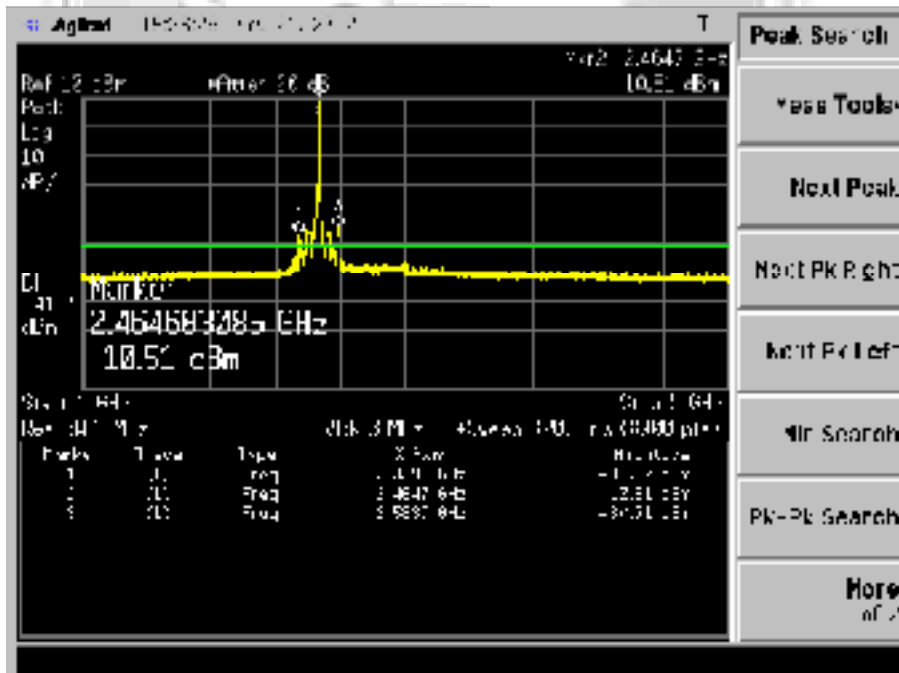


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 529 – Channel 11 (upper ch) @ 16QAM 36Mbps

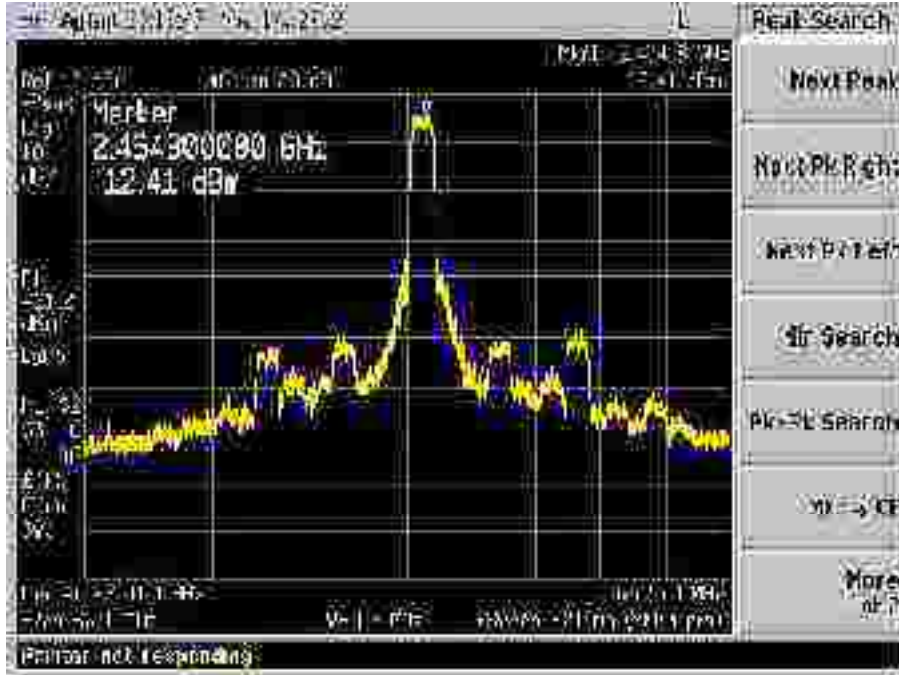


Plot 530 – Channel 11 (upper ch) @ 16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 531 – Channel 11 (upper ch) @ 16QAM 36Mbps

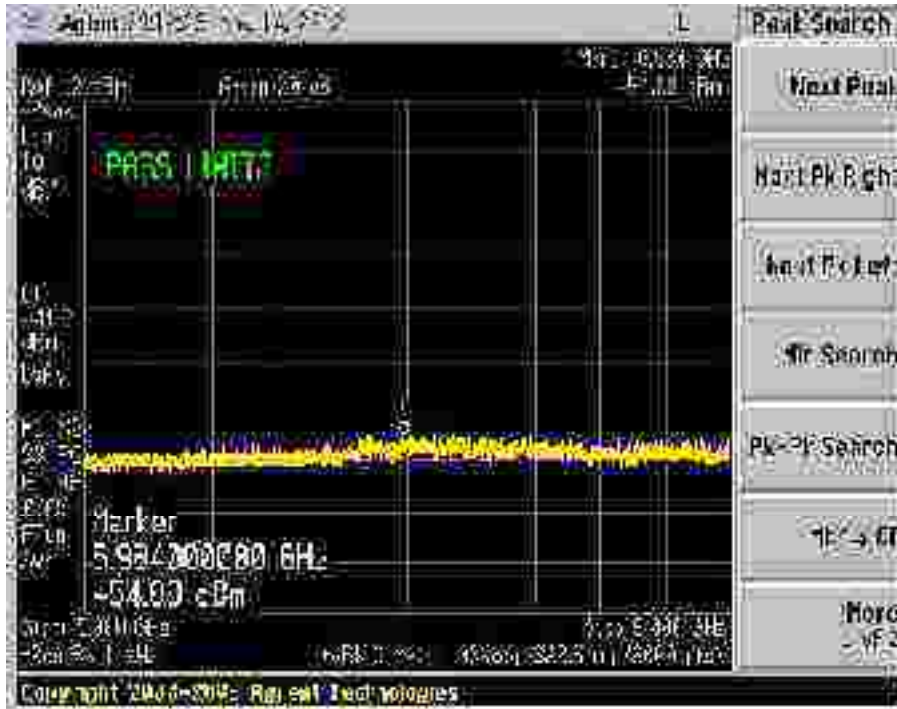


Plot 532 – Channel 11 (upper ch) @ 16QAM 36Mbps

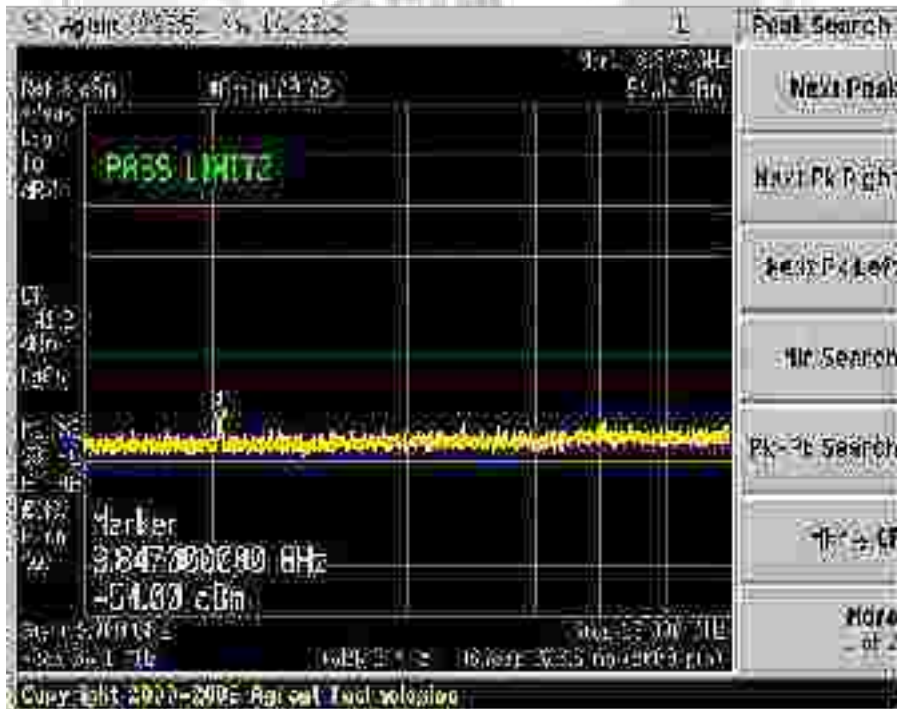


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 533 – Channel 11 (upper ch) @ 16QAM 36Mbps

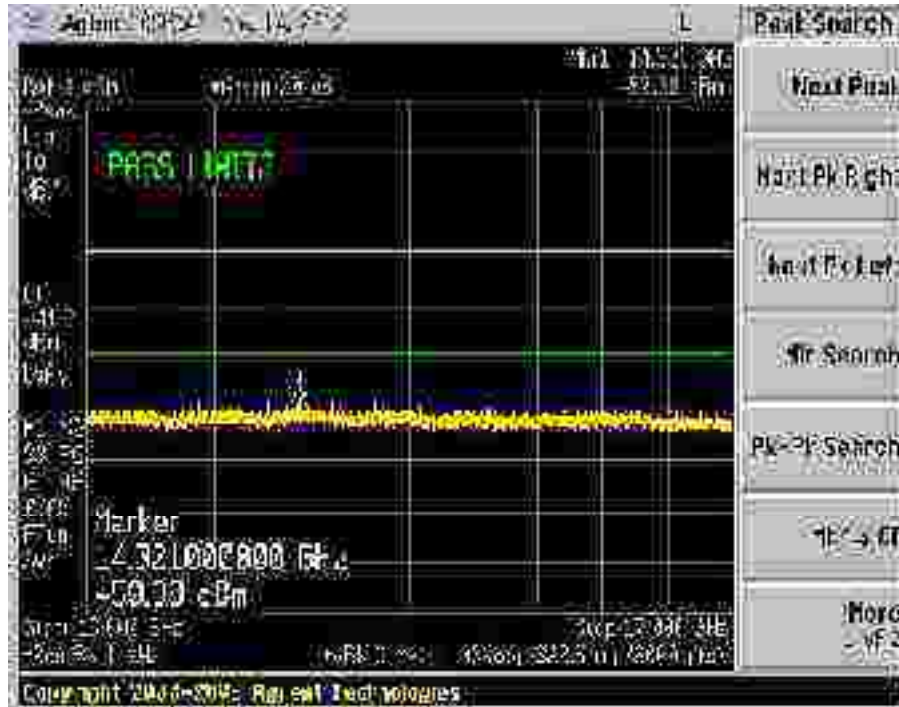


Plot 534 – Channel 11 (upper ch) @ 16QAM 36Mbps

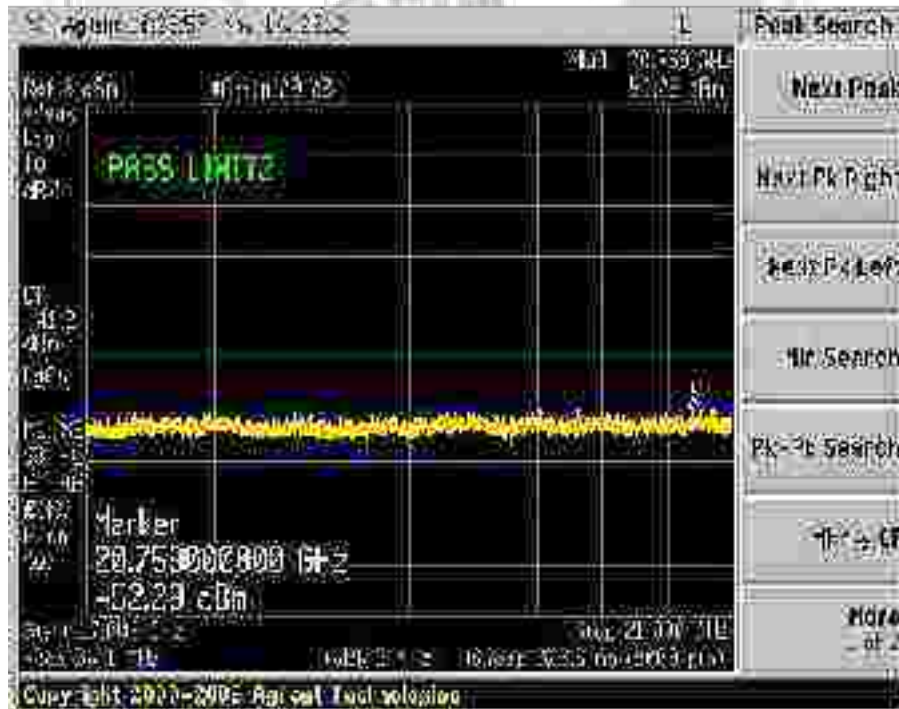


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 535 – Channel 11 (*upper ch*) @ 16QAM 36Mbps

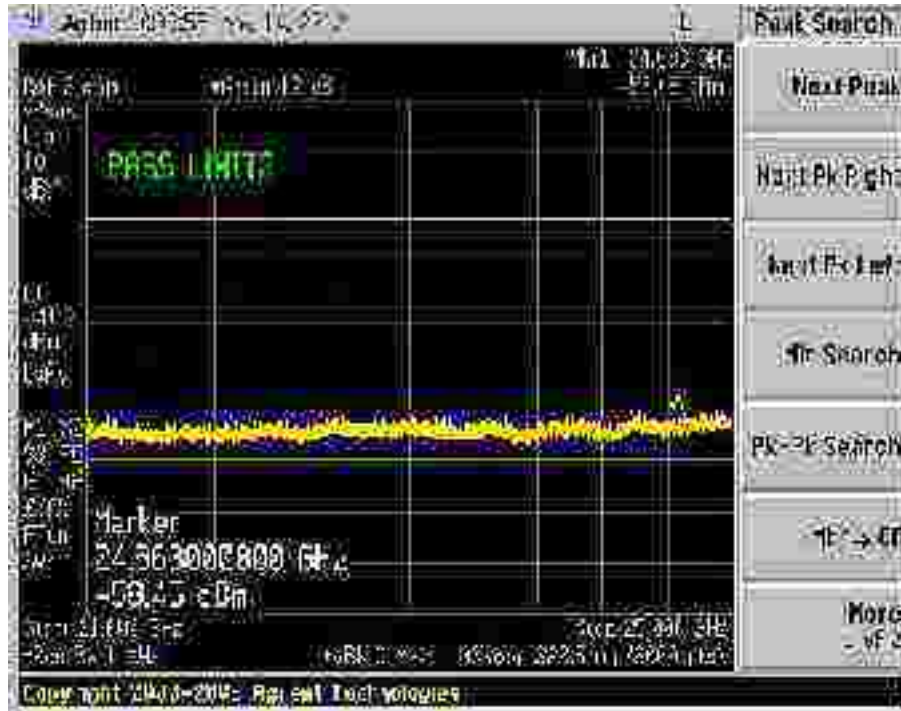


Plot 536 – Channel 11 (*upper ch*) @ 16QAM 36Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)

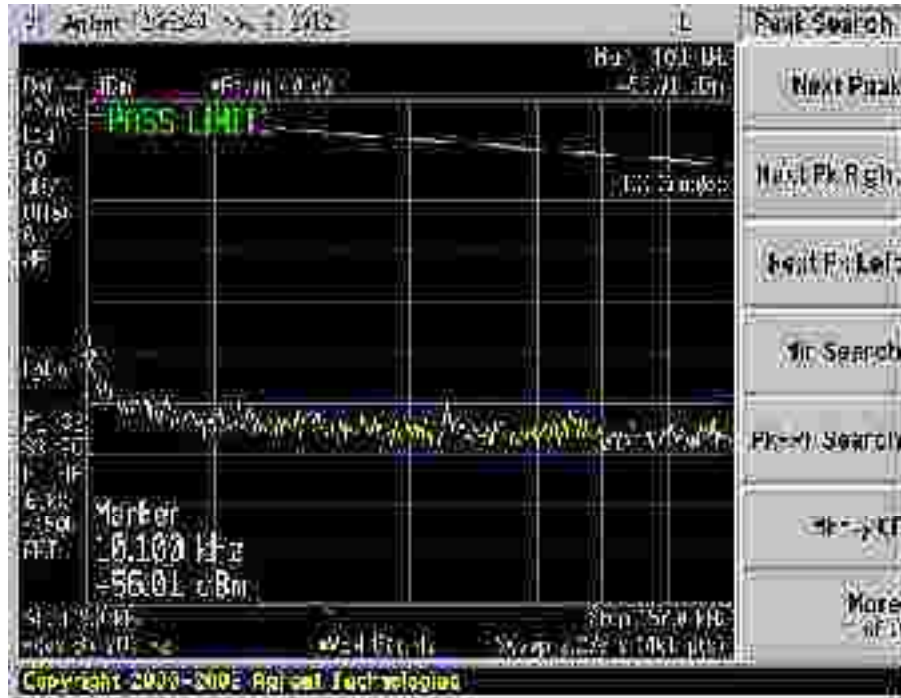


Plot 537 – Channel 11 (*upper ch*) @ 16QAM 36Mbps

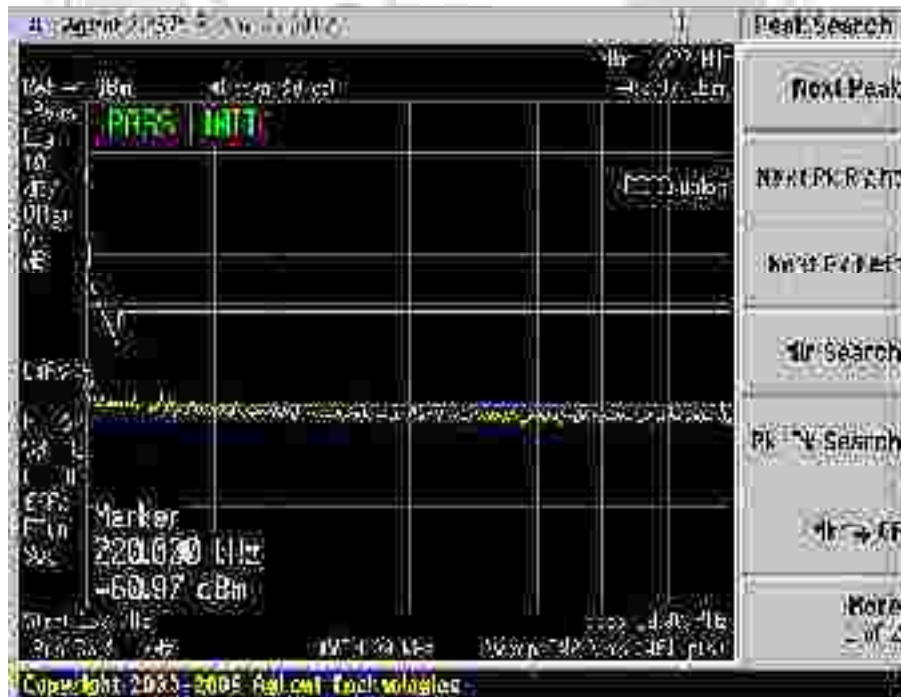


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 538 – Channel 11 (upper ch) @ 64QAM 54Mbps

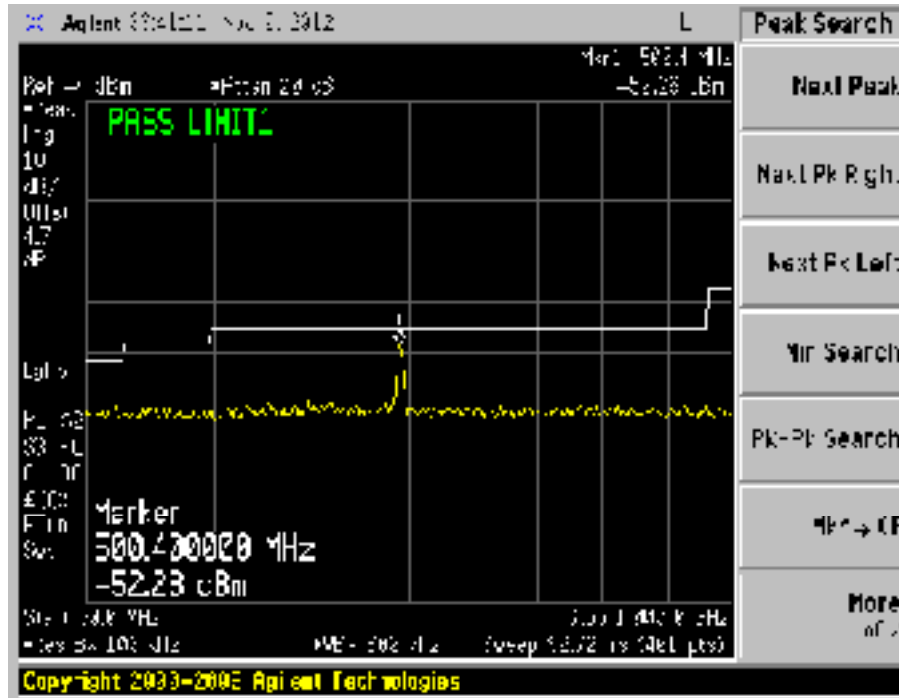


Plot 539 – Channel 11 (upper ch) @ 64QAM 54Mbps

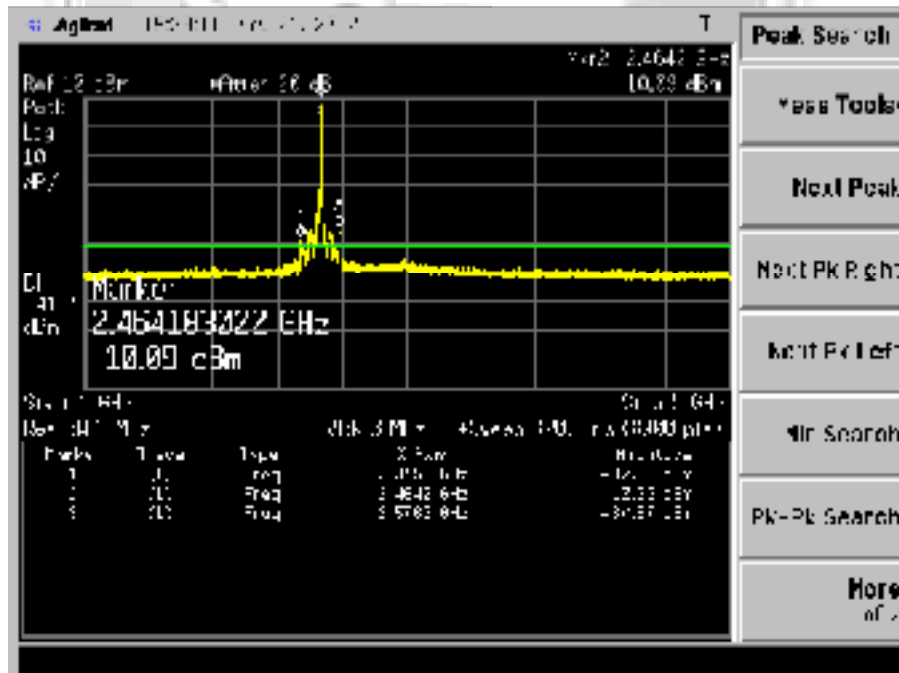


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 540 – Channel 11 (upper ch) @ 64QAM 54Mbps

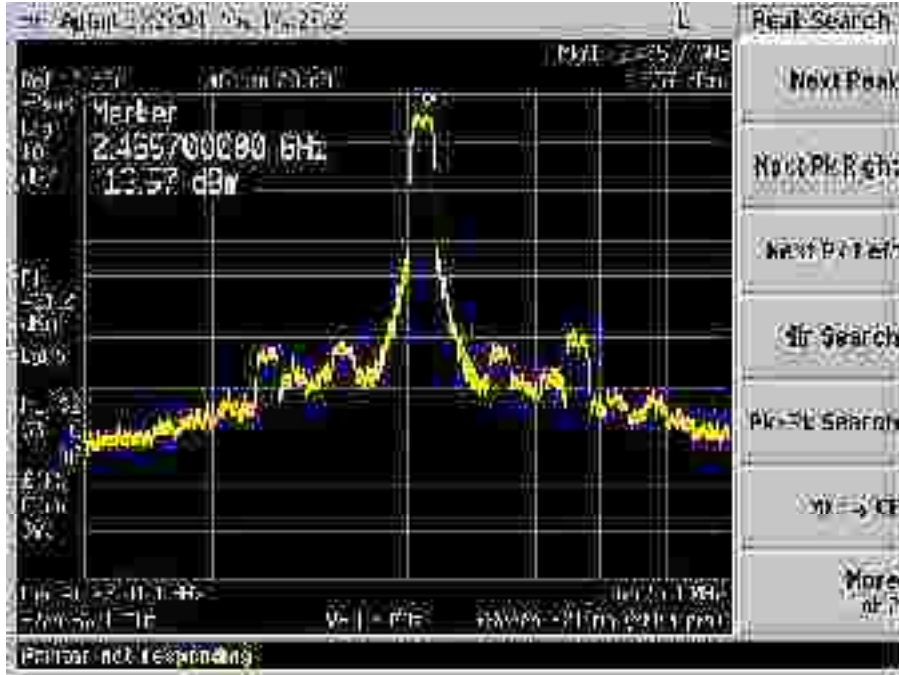


Plot 541 – Channel 11 (upper ch) @ 64QAM 54Mbps



RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak & Average (Antenna 2)



Plot 542 – Channel 11 (upper ch) @ 64QAM 54Mbps

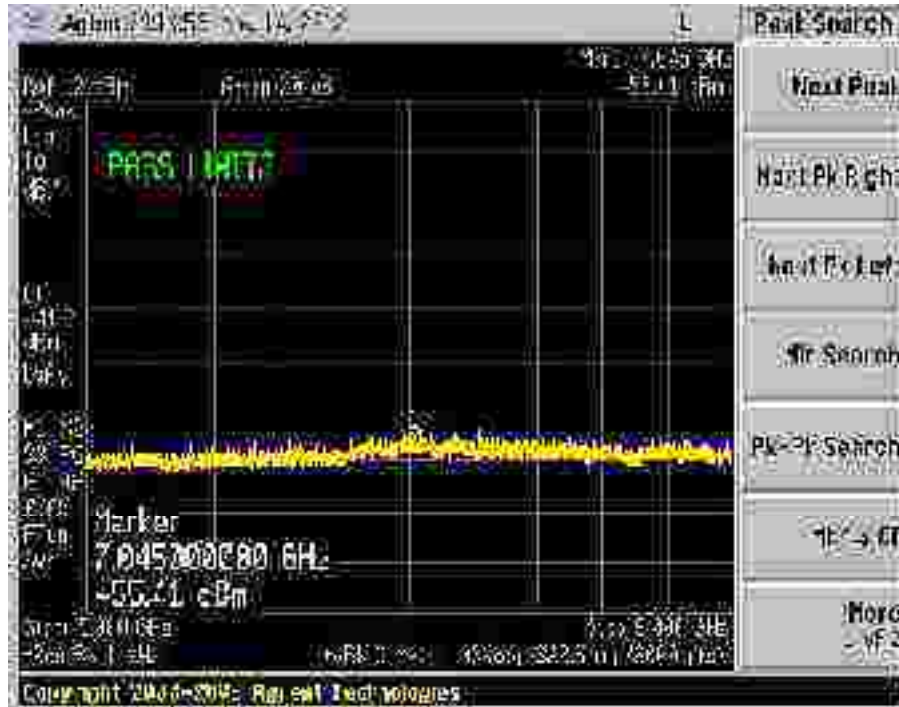


Plot 543 – Channel 11 (upper ch) @ 64QAM 54Mbps

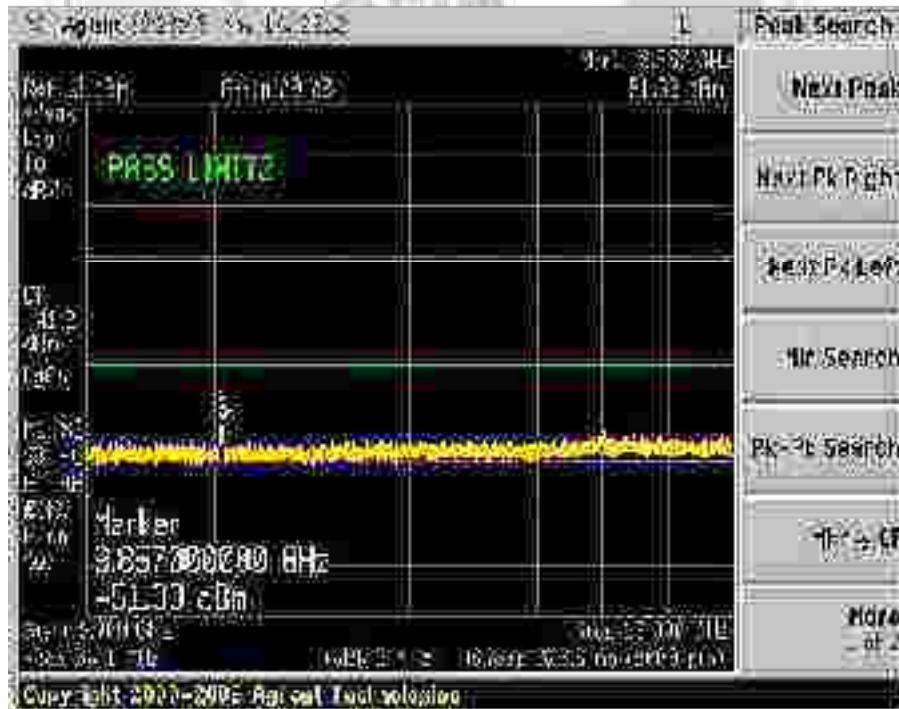


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 544 – Channel 11 (upper ch) @ 64QAM 54Mbps

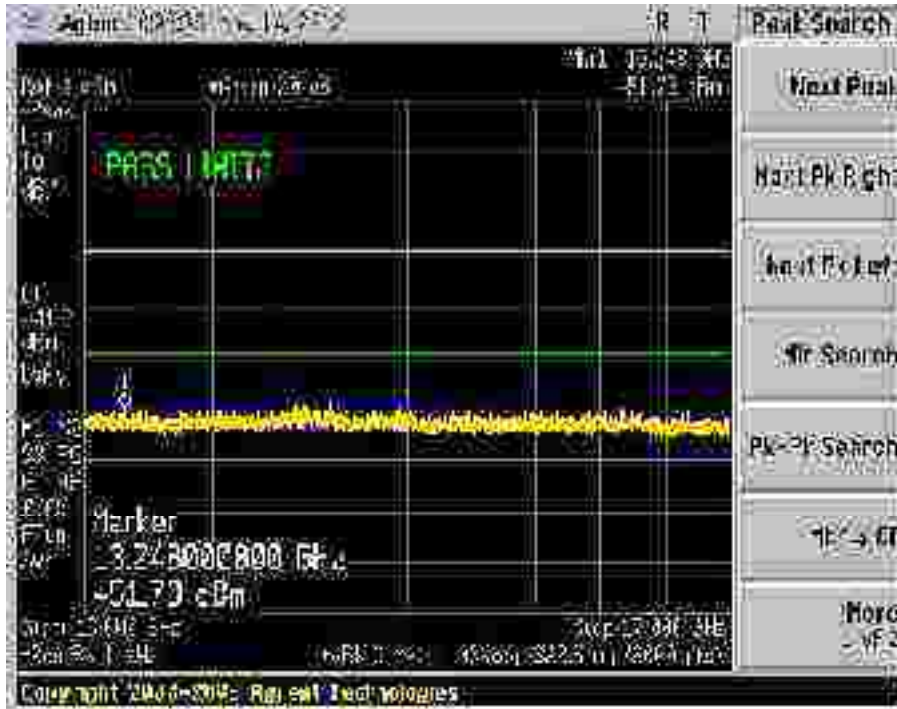


Plot 545 – Channel 11 (upper ch) @ 64QAM 54Mbps

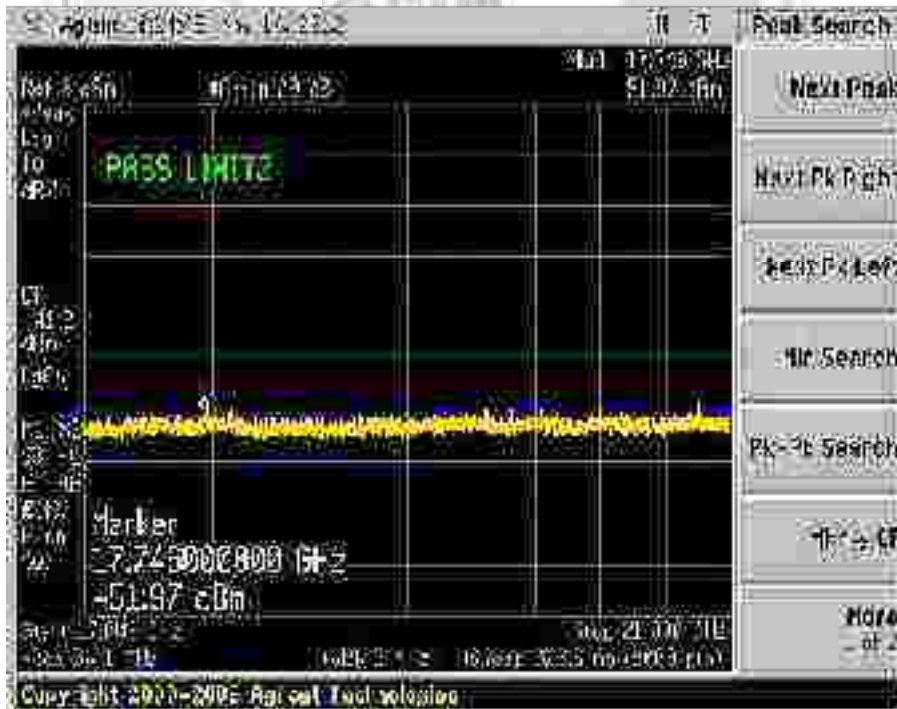


RF CONDUCTED SPURIOUS EMISSIONS (RESTRICTED BANDS) TEST

RF Conducted Spurious Emissions (Restricted) Plots – Peak (Antenna 2)



Plot 546 – Channel 11 (*upper ch*) @ 64QAM 54Mbps



Plot 547 – Channel 11 (*upper ch*) @ 64QAM 54Mbps



BAND EDGE COMPLIANCE (CONDUCTED) TEST

47 CFR FCC Part 15.247(d) Band Edge Compliance (Conducted) Limits

The EUT shows compliance to the requirements of this section, which states in any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator (EUT) is operating, the radio frequency power that is produced by the EUT shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

47 CFR FCC Part 15.247(d) Band Edge Compliance (Conducted) Test Instrumentation

Instrument	Model	S/No	Cal Due Date
Agilent Spectrum Analyzer	E4440A	MY45304764	20 Jun 2013

47 CFR FCC Part 15.247(d) Band Edge Compliance (Conducted) Test Setup

1. The EUT and supporting equipment were set up as shown in the setup photo.
2. The power supply for the EUT was connected to a filtered mains.
3. The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
4. The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 100kHz and 300kHz.
5. All other supporting equipment were powered separately from another filtered mains.

47 CFR FCC Part 15.247(d) Band Edge Compliance (Conducted) Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode with specified modulation and data rate.
2. The frequency span of the spectrum analyser was set to wide enough to capture the lower band edge of the transmission band, 2.400GHz and any spurious emissions at the band edge.
3. The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected.
4. Repeat steps 1 to 3 with all possible modulations and data rates.
5. The steps 2 to 4 were repeated with the frequency span of the spectrum analyser was set to wide enough to capture the upper band edge frequency of the transmission band, 2.4835GHz and the any spurious emissions at the band-edge.

BAND EDGE COMPLIANCE (CONDUCTED) TEST



Band Edge Compliance (Conducted) Test Setup

47 CFR FCC Part 15.247(d) Band Edge Compliance (Conducted) Results

Test Input Power	110V 60Hz	Temperature	24°C
Attached Plots	549 – 562 (Antenna 1) 563 – 576 (Antenna 2)	Relative Humidity	60%
		Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein

No significant signal was found and they were below the specified limit.



BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 549 – Lower Band Edge at 2.4000GHz @ DBPSK 1Mbps



Plot 550 – Lower Band Edge at 2.4000GHz @ DQPSK 2Mbps



BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 551 – Lower Band Edge at 2.4000GHz @ CCK 11Mbps



Plot 552 – Lower Band Edge at 2.4000GHz @ BPSK 9Mbps

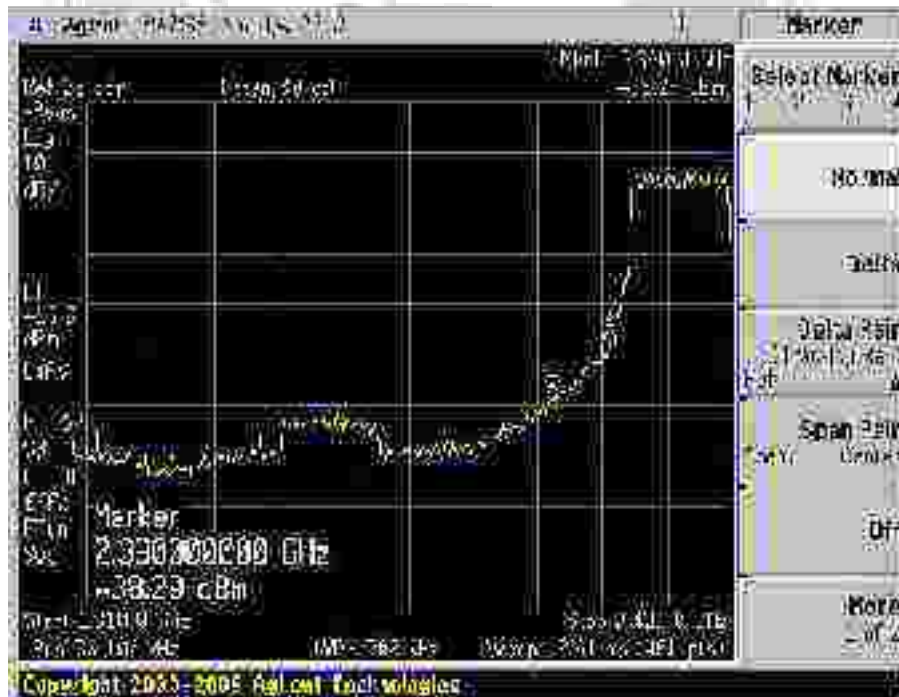


BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 553 – Lower Band Edge at 2.4000GHz @ QPSK18Mbps

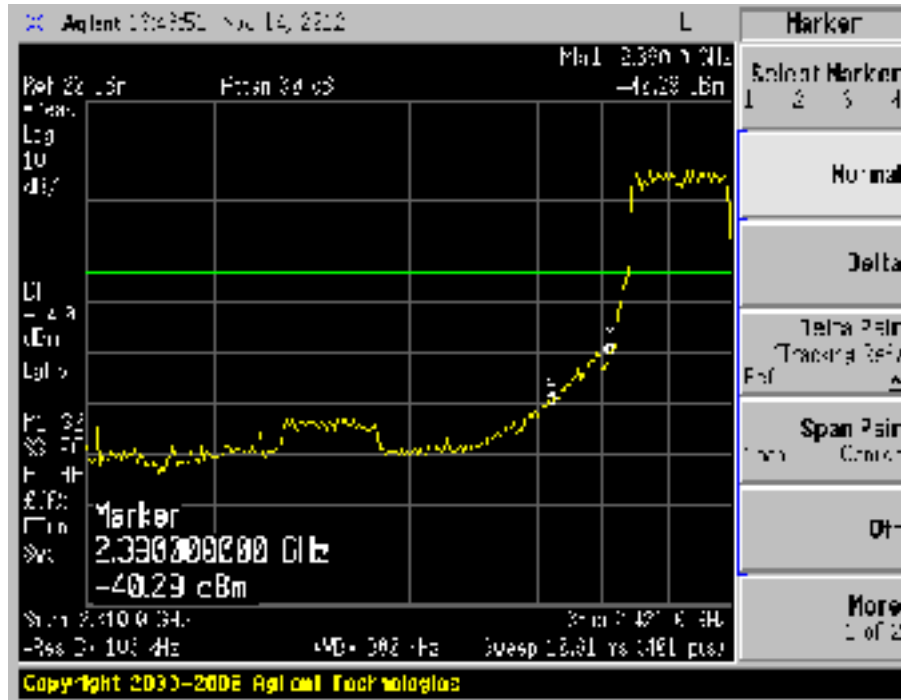


Plot 554 – Lower Band Edge at 2.4000GHz @ 16QAM 36Mbps



BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 555 – Lower Band Edge at 2.400GHz @ 64QAM 54Mbps





BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 556 – Upper Band Edge at 2.4835GHz @ DBPSK 1Mbps

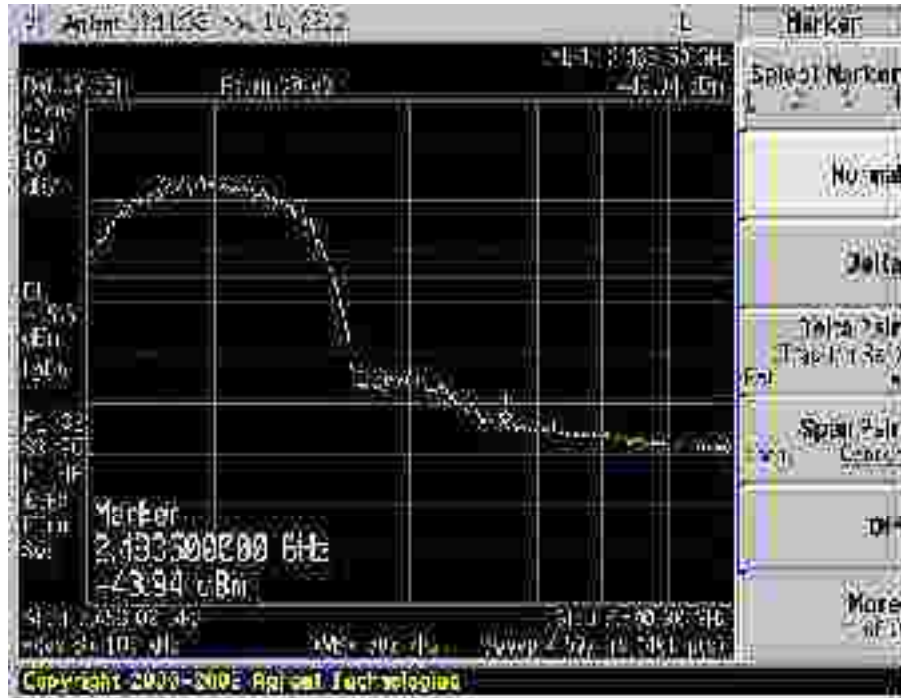


Plot 557 – Upper Band Edge at 2.4835GHz @ DQPSK 2Mbps

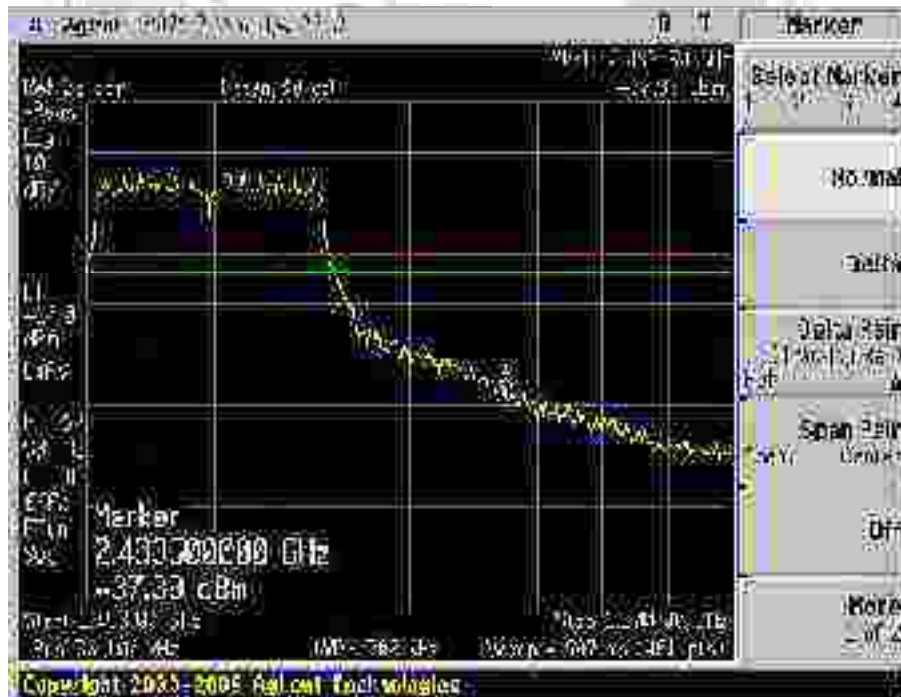


BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 558 – Upper Band Edge at 2.4835GHz @ CCK 11Mbps

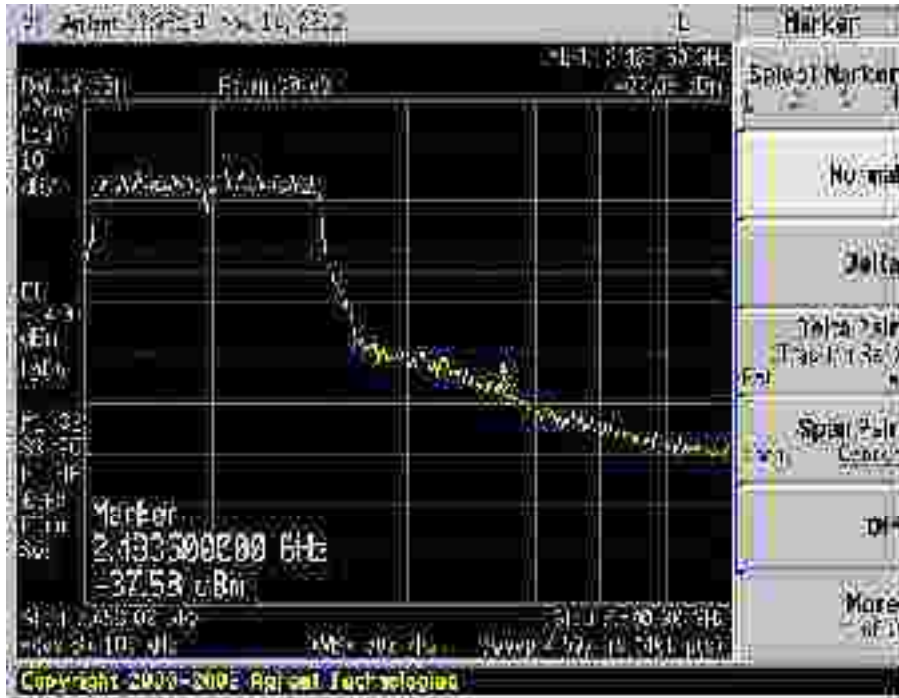


Plot 559 – Upper Band Edge at 2.4835GHz @ BPSK 9Mbps

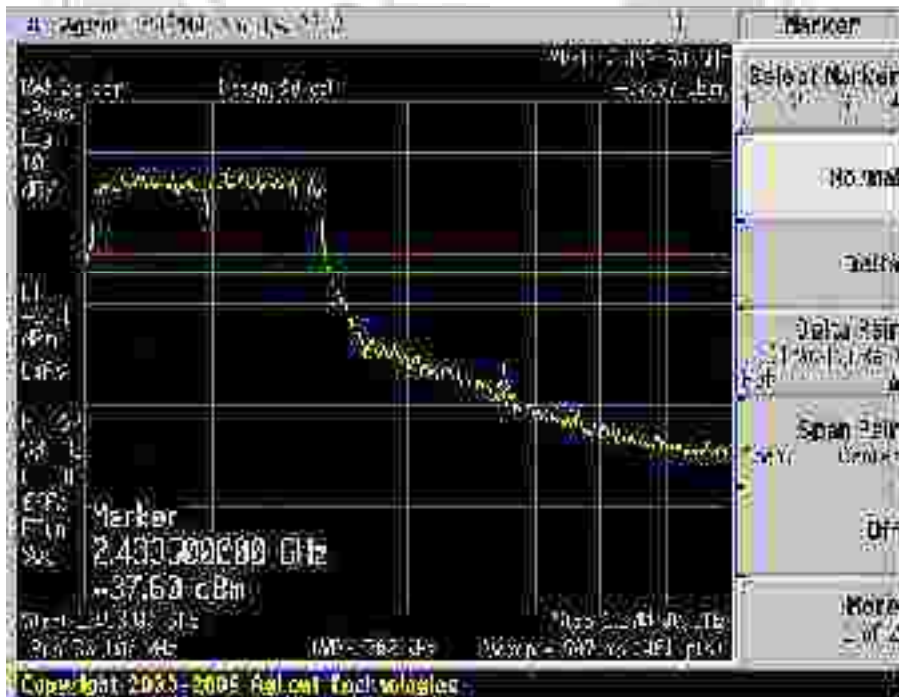


BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 560 – Upper Band Edge at 2.4835GHz @ QPSK 18Mbps

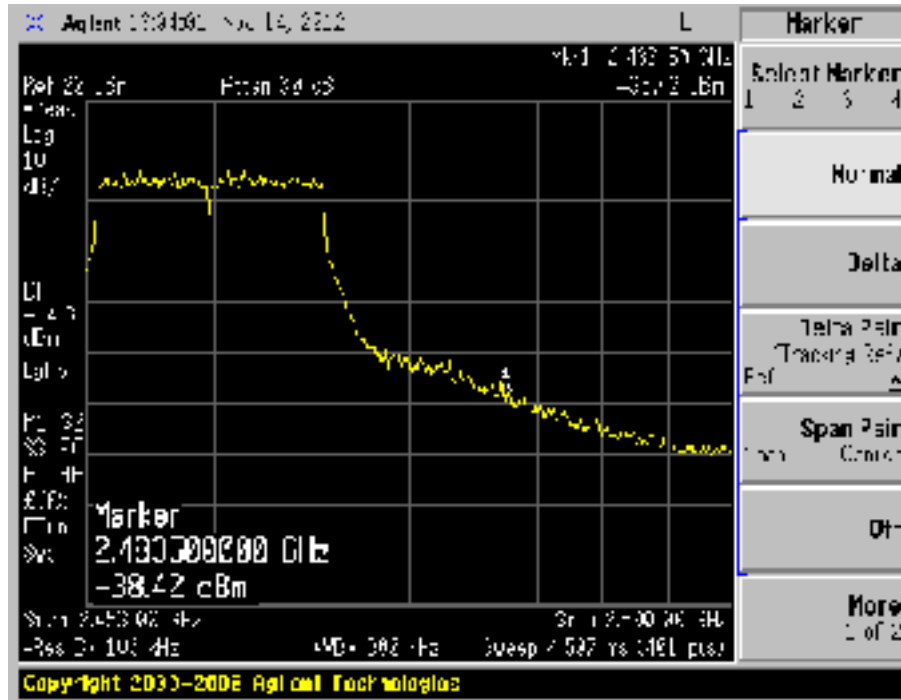


Plot 561 – Upper Band Edge at 2.4835GHz @ 16QAM 36Mbps



BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 1)



Plot 562 – Upper Band Edge at 2.4835GHz @ 64QAM 54Mbps



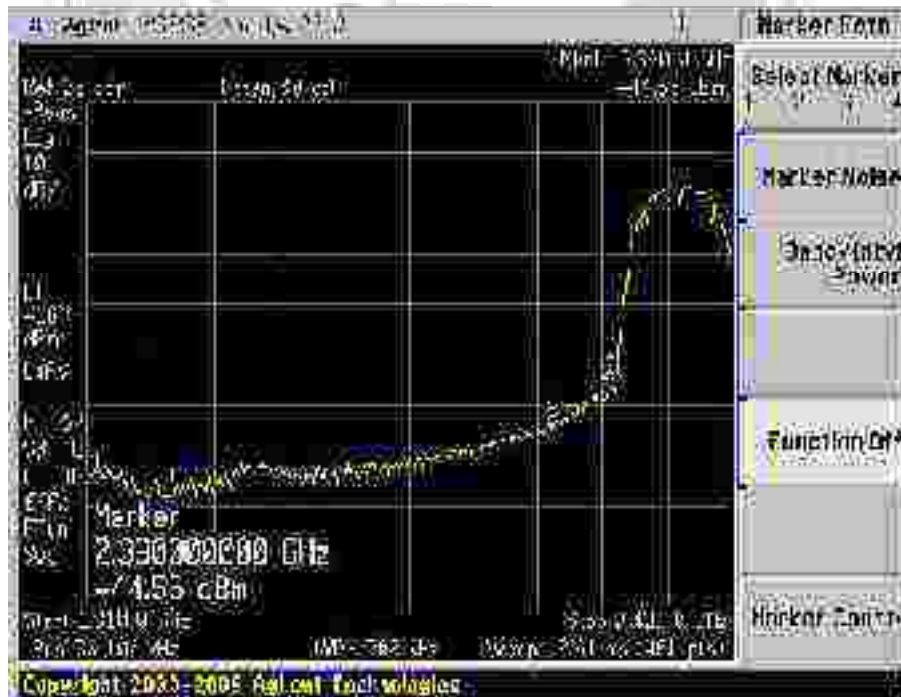


BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 2)



Plot 563 – Lower Band Edge at 2.4000GHz @ DBPSK 1Mbps



Plot 564 – Lower Band Edge at 2.4000GHz @ DQPSK 2Mbps



BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 2)



Plot 565 – Lower Band Edge at 2.4000GHz @ CCK 11Mbps



Plot 566 – Lower Band Edge at 2.4000GHz @ BPSK 9Mbps

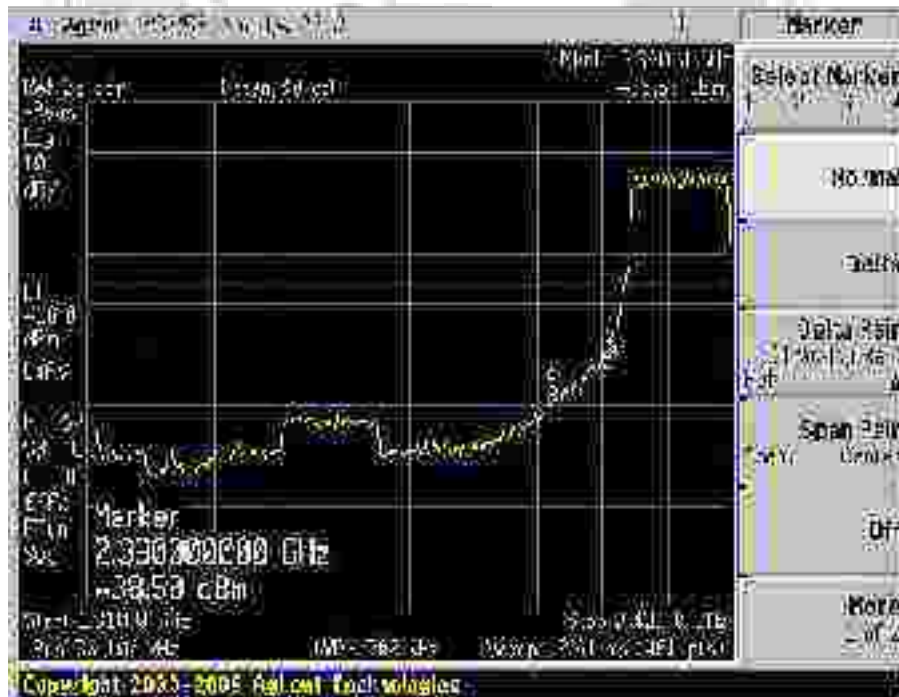


BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 2)



Plot 567 – Lower Band Edge at 2.4000GHz @ QPSK18Mbps



Plot 568 – Lower Band Edge at 2.4000GHz @ 16QAM 36Mbps



BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 2)



Plot 570 – Upper Band Edge at 2.4835GHz @ DBPSK 1Mbps

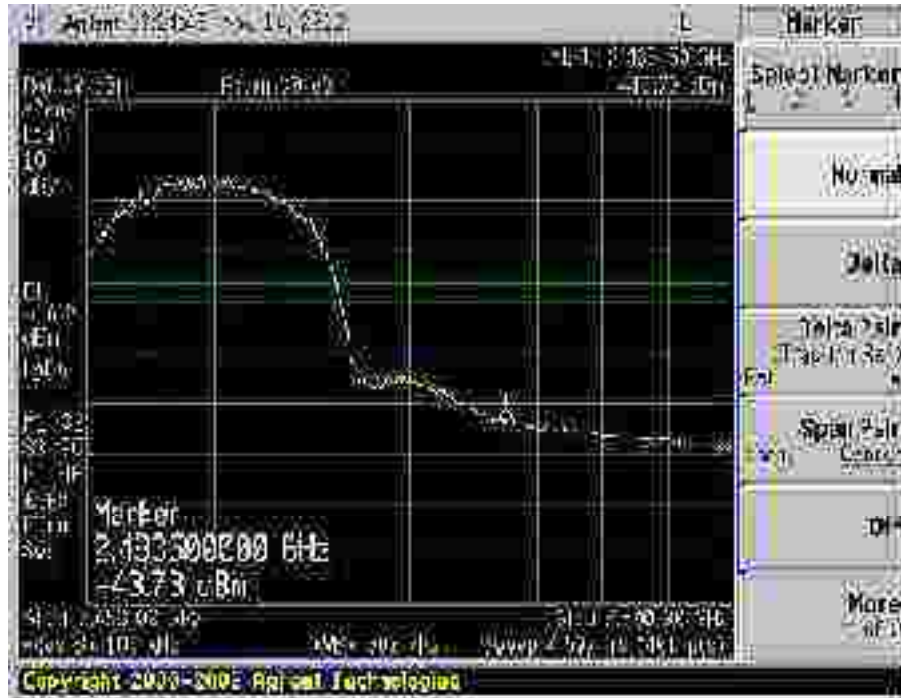


Plot 571 – Upper Band Edge at 2.4835GHz @ DQPSK 2Mbps

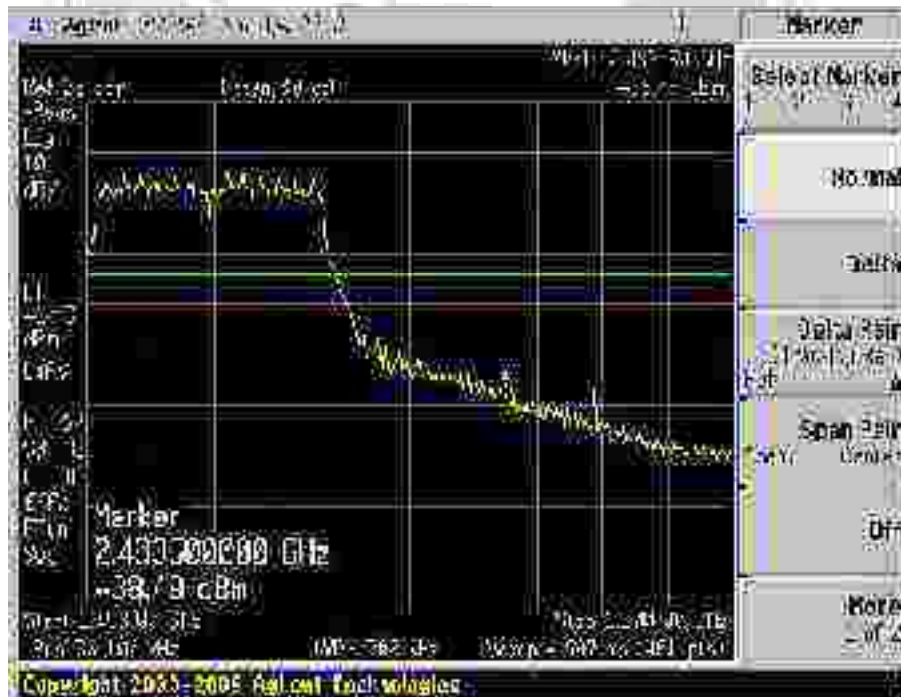


BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 2)



Plot 572 – Upper Band Edge at 2.4835GHz @ CCK 11Mbps

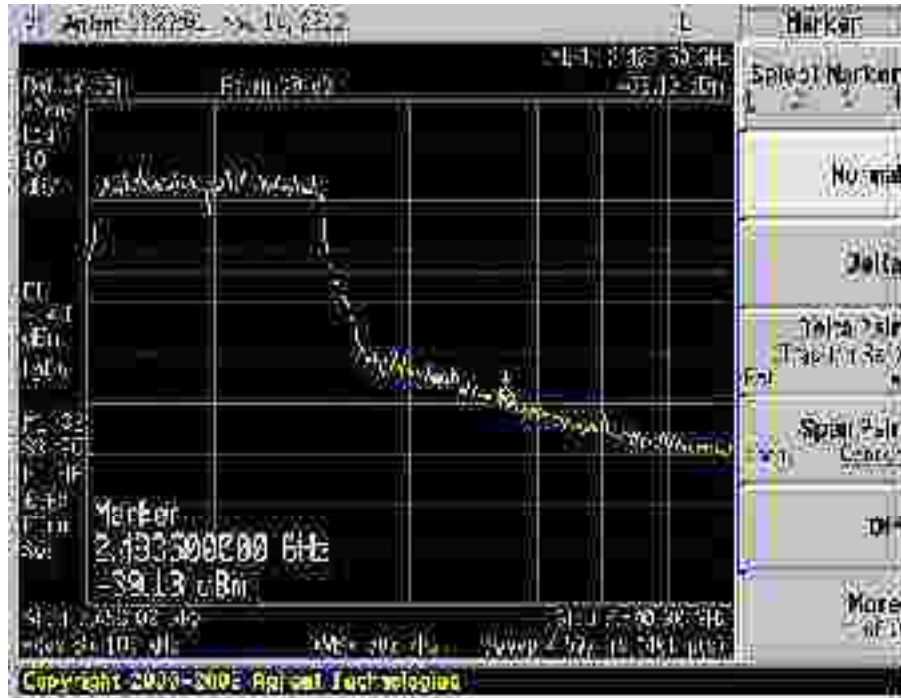


Plot 573 – Upper Band Edge at 2.4835GHz @ BPSK 9Mbps

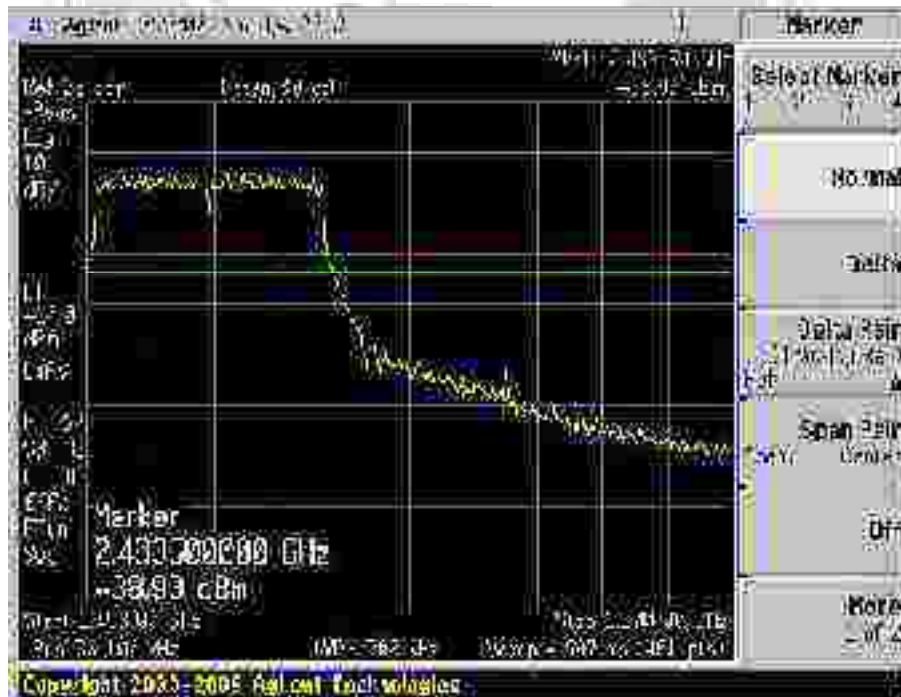


BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 2)



Plot 574 – Upper Band Edge at 2.4835GHz @ QPSK 18Mbps

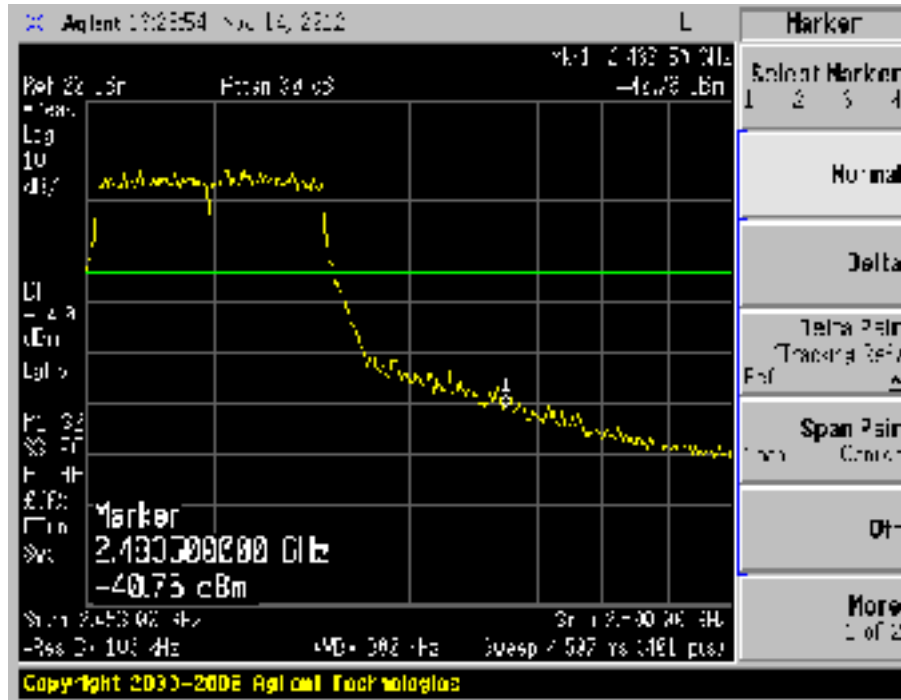


Plot 575 – Upper Band Edge at 2.4835GHz @ 16QAM 36Mbps



BAND EDGE COMPLIANCE (CONDUCTED) TEST

Band Edge Compliance (Conducted) Plots (Antenna 2)



Plot 576 – Upper Band Edge at 2.4835GHz @ 64QAM 54Mbps





BAND EDGE COMPLIANCE (RADIATED) TEST

47 CFR FCC Part 15.247(d) Band Edge Compliance (Radiated) Limits

The EUT shows compliance to the requirements of this section, which states in any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator (EUT) is operating, the radio frequency power that is produced by the EUT shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power. In addition, radiated emissions which fall in the restricted bands shall comply to the radiated emission limits specified in 15.209.

47 CFR FCC Part 15.247(d) Band Edge Compliance (Radiated) Test Instrumentation

Instrument	Model	S/No	Cal Due Date
R&S Test Receiver – ES11	ES140	100010	05 Jun 2013
EMCO Horn Antenna(1GHz-18GHz) – H14 (Ref)	3115	0003-6087	12 Jul 2013
Agilent Preamplifier(1GHz-26.5GHz) (PA18)	8449D	3008A02305	07 Oct 2013

47 CFR FCC Part 15.247(d) Band Edge Compliance (Radiated) Test Setup

1. The EUT and supporting equipment were set up as shown in the setup photo.
2. The power supply for the EUT was connected to a filtered mains.
3. The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 100kHz and 300kHz to show compliance of spurious at band edges are at least 20dB below the carriers. For restricted band spurious at band edges, peak and average measurement plots were taken using the following setting:
 - a. Peak Plot:
RBW = VBW = 1MHz
 - b. Average Plot
RBW = 1MHz, VBW = 10Hz
4. All other supporting equipment were powered separately from another filtered mains.

47 CFR FCC Part 15.247(d) Band Edge Compliance (Radiated) Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode with specified modulation and data rate.
2. The frequency span of the spectrum analyser was set to wide enough to capture the lower band edge of the transmission band, 2.400GHz and any spurious emissions at the band edge.
3. The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected.
4. Repeat steps 1 to 3 with all possible modulations and data rates.
5. The steps 2 to 4 were repeated with the frequency span of the spectrum analyser was set to wide enough to capture the upper band edge frequency of the transmission band, 2.4835GHz and the any spurious emissions at the band-edge.

BAND EDGE COMPLIANCE (RADIATED) TEST



Band Edge Compliance (Radiated) Test Setup

47 CFR FCC Part 15.247(d) Band Edge Compliance (Radiated) Results

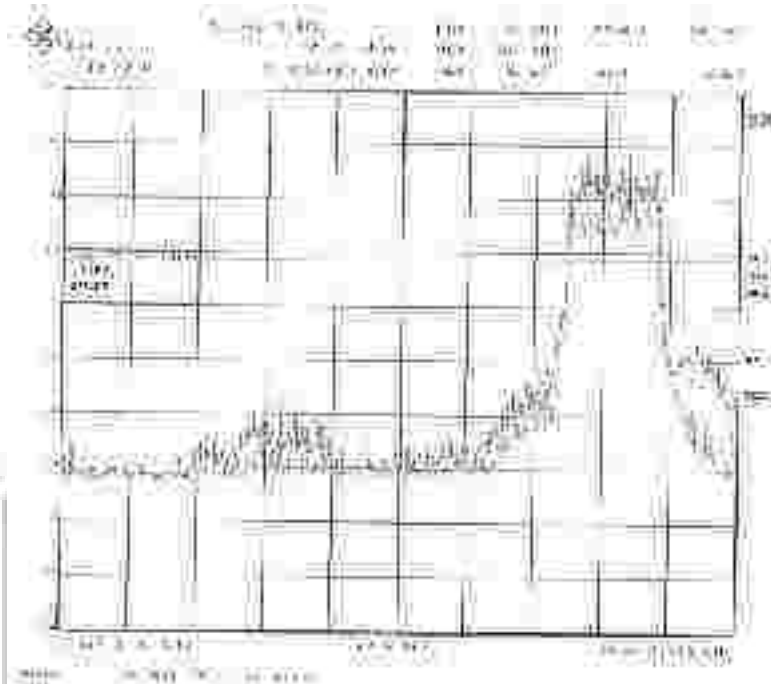
Test Input Power	110V 60Hz	Temperature	24°C
Attached Plots	577 - 582	Relative Humidity	60%
Antenna	1 (Worst Antenna)	Atmospheric Pressure	1030mbar
Modulation	64QAM 54Mbps (Worst)	Tested By	Lim Kay Tak

No significant signal was found and they were below the specified limit.

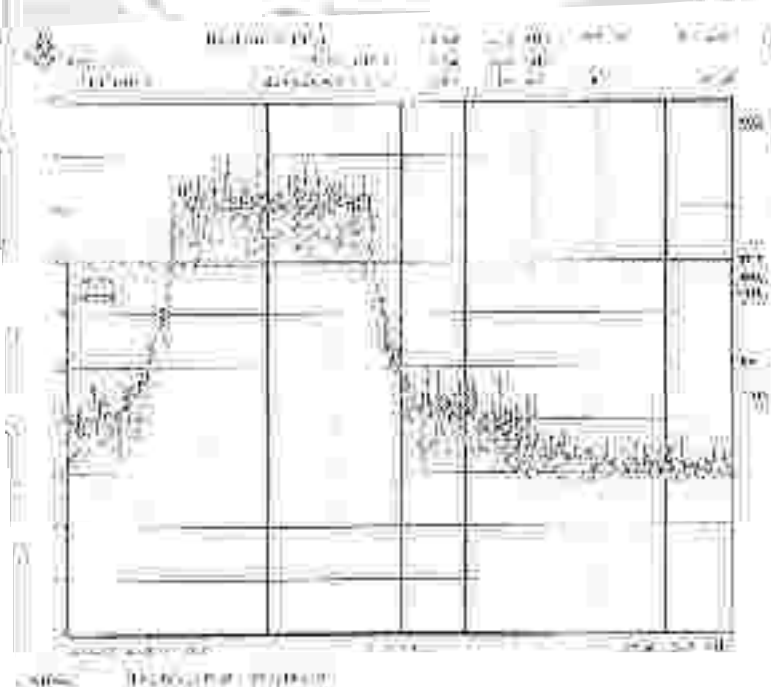


BAND EDGE COMPLIANCE (RADIATED) TEST

Band Edge Compliance (Radiated) Plots (20dB Delta from Carrier at Band Edge)



Plot 577 – Lower Band Edge at 2.4000GHz

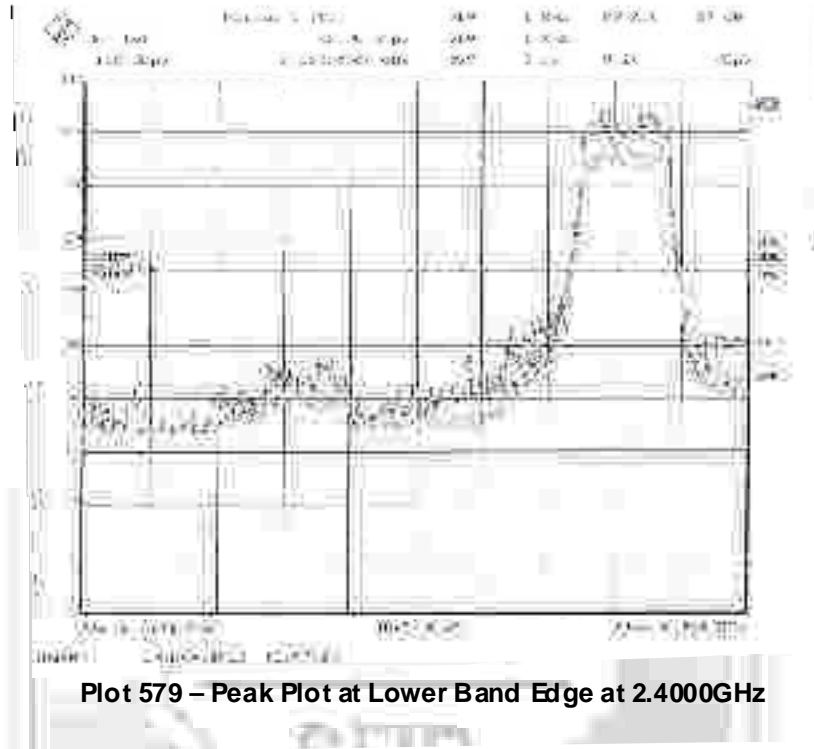


Plot 578 – Upper Band Edge at 2.4835GHz

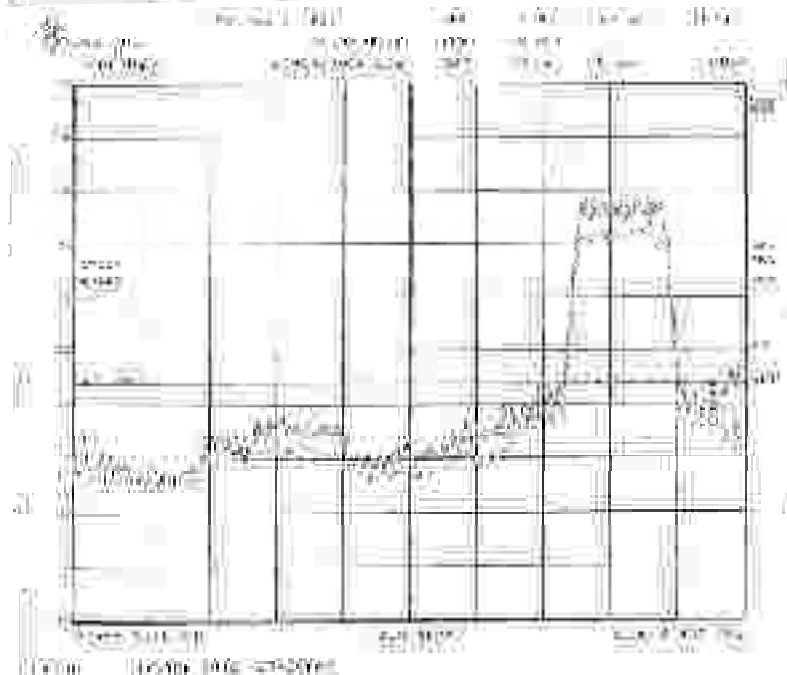


BAND EDGE COMPLIANCE (RADIATED) TEST

Band Edge Compliance (Radiated) Plots (Restricted Band)



Plot 579 – Peak Plot at Lower Band Edge at 2.4000GHz

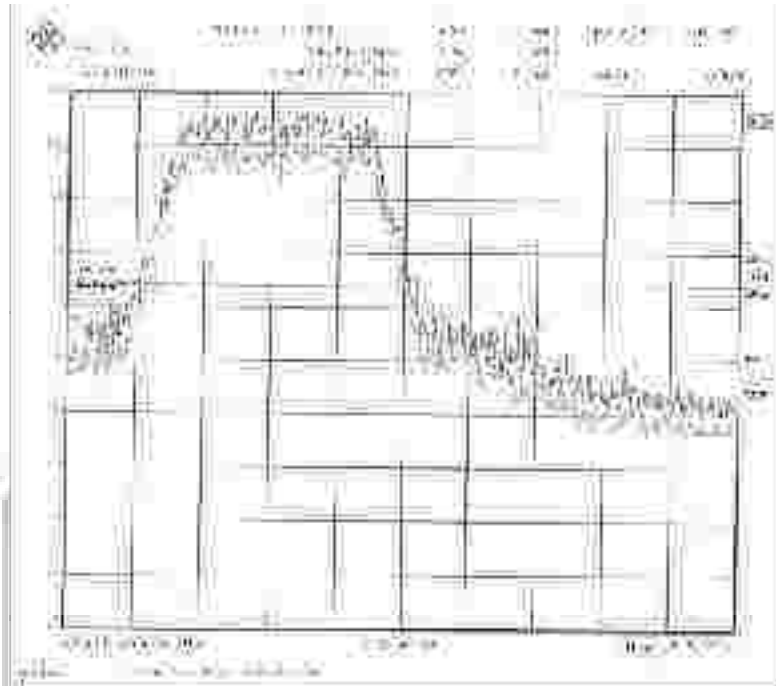


Plot 580 – Average Plot at Lower Band Edge at 2.4000GHz

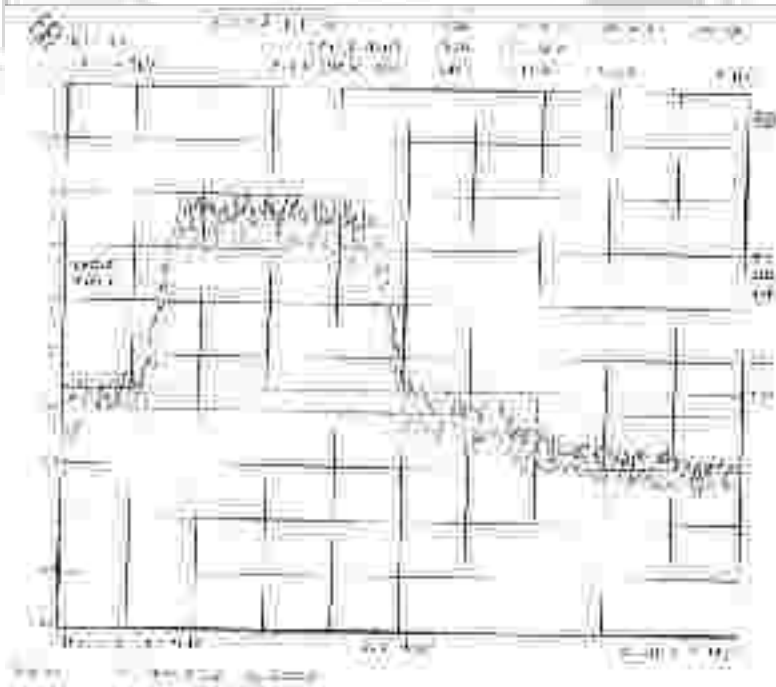


BAND EDGE COMPLIANCE (RADIATED) TEST

Band Edge Compliance (Radiated) Plots (Restricted Band)



Plot 581 – Peak Plot at Upper Band Edge at 2.4835GHz



Plot 582 – Average Plot at Upper Band Edge at 2.4835GHz



PEAK POWER SPECTRAL DENSITY TEST

47 CFR FCC Part 15.247(e) Peak Power Spectral Density Limits

The EUT shows compliance to the requirements of this section, which states the peak power spectral density conducted from the intentional radiator (EUT) to the antenna shall not be greater than 8dBm (6.3mW) in any 3kHz band during any time interval of continuous transmission.

47 CFR FCC Part 15.247(e) Peak Power Spectral Density Test Instrumentation

Instrument	Model	S/No	Cal Due Date
Agilent Spectrum Analyzer	E4440A	MY45304764	20 Jun 2013

47 CFR FCC Part 15.247(e) Peak Power Spectral Density Test Setup

1. The EUT and supporting equipment were set up as shown in the setup photo.
2. The power supply for the EUT was connected to a filtered mains.
3. The RF antenna connector was connected to the spectrum via a low-loss coaxial cable.
4. The resolution bandwidth (RBW), video bandwidth (VBW) and span of the spectrum analyser were set to the following:
RBW = 100kHz
VBW = 300kHz
Span = 5% to 30% greater than EBW
Sweep time = auto couple
5. All other supporting equipment were powered separately from another filtered mains.

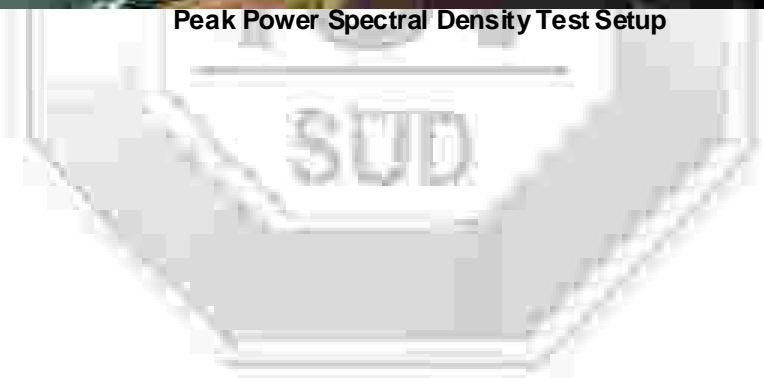
47 CFR FCC Part 15.247(e) Peak Power Spectral Density Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode at lower channel with specified modulation and data rate.
2. The peak of the transmitting frequency was detected with the marker peak function of the spectrum analyser.
3. The detected power level was scaled to an equivalent 3kHz by adding a bandwidth correction factor (BWCF) of $10 \log(3\text{kHz} / 100\text{kHz})$; ie -15.2dB.
4. The peak power density of the transmitting frequency was plotted and recorded.
5. Repeat steps 1 to 4 with all possible modulations and data rates.
6. The steps 2 to 5 were repeated with the transmitting frequency was set to middle and upper channel respectively.

PEAK POWER SPECTRAL DENSITY TEST



Peak Power Spectral Density Test Setup





PEAK POWER SPECTRAL DENSITY TEST

47 CFR FCC Part 15.247(e) Peak Power Spectral Density Results

Test Input Power	110V 60Hz	Temperature	24°C
Attached Plots	583 – 603	Relative Humidity	60%
	1	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein

Channel	Channel Frequency (GHz)	Peak Power Spectral Density (mW)	Limit (mW)	Modulation @ Data Rate
1	2.412	0.0879	6.3	DBPSK @ 1Mbps
		0.2415	6.3	DQPSK @ 2Mbps
		0.1091	6.3	CCK @ 11Mbps
		0.1276	6.3	BP SK @ 9Mbps
		0.1493	6.3	BP SK @ 18Mbps
		0.1250	6.3	16QAM @ 36Mbps
		0.1352	6.3	64QAM @ 54Mbps
7	2.437	0.1107	6.3	DBPSK @ 1Mbps
		0.2924	6.3	DQPSK @ 2Mbps
		0.0746	6.3	CCK @ 11Mbps
		0.1439	6.3	BP SK @ 9Mbps
		0.1312	6.3	BP SK @ 18Mbps
		0.1791	6.3	16QAM @ 36Mbps
		0.1358	6.3	64QAM @ 54Mbps
11	2.462	0.0914	6.3	DBPSK @ 1Mbps
		0.1242	6.3	DQPSK @ 2Mbps
		0.1130	6.3	CCK @ 11Mbps
		0.1393	6.3	BP SK @ 9Mbps
		0.1439	6.3	BP SK @ 18Mbps
		0.1315	6.3	16QAM @ 36Mbps
		0.1175	6.3	64QAM @ 54Mbps



PEAK POWER SPECTRAL DENSITY TEST

47 CFR FCC Part 15.247(e) Peak Power Spectral Density Results

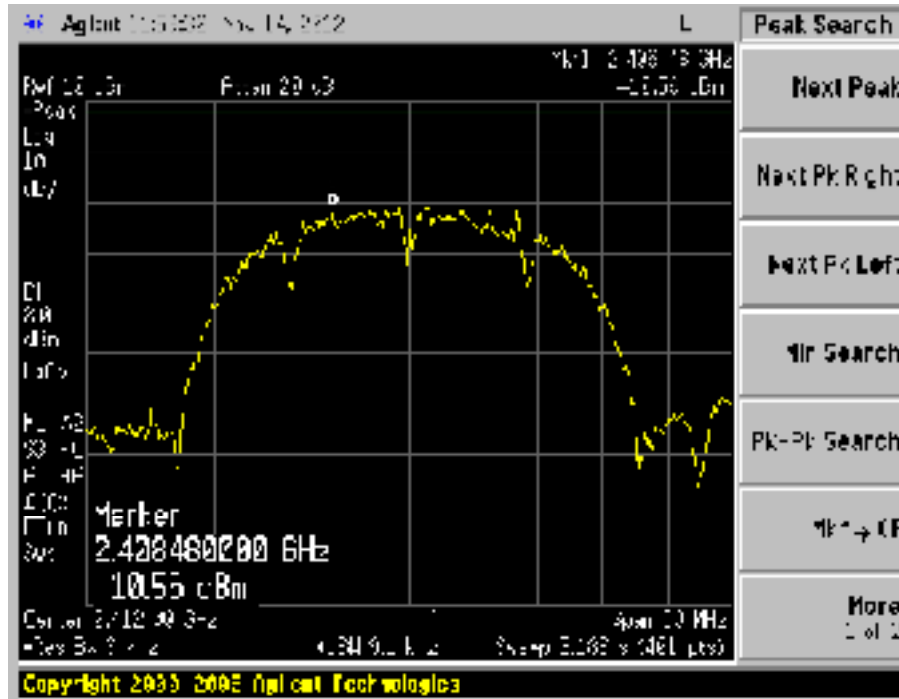
Test Input Power	110V 60Hz	Temperature	24° C
Attached Plots	604 – 624	Relative Humidity	60%
Antenna	2	Atmospheric Pressure	1030mbar
		Tested By	Kyaw Soe Hein

Channel	Channel Frequency (GHz)	Peak Power Spectral Density (mW)	Limit (mW)	Modulation @ Data Rate
1	2.412	0.1552	6.3	DBPSK @ 1Mbps
		0.1510	6.3	DQPSK @ 2Mbps
		0.1324	6.3	CCK @ 11Mbps
		0.1222	6.3	BP SK @ 9Mbps
		0.1256	6.3	BP SK @ 18Mbps
		0.1600	6.3	16QAM @ 36Mbps
		0.1422	6.3	64QAM @ 54Mbps
7	2.437	0.1919	6.3	DBPSK @ 1Mbps
		0.1233	6.3	DQPSK @ 2Mbps
		0.0966	6.3	CCK @ 11Mbps
		0.2393	6.3	BP SK @ 9Mbps
		0.1531	6.3	BP SK @ 18Mbps
		0.1194	6.3	16QAM @ 36Mbps
		0.1069	6.3	64QAM @ 54Mbps
11	2.462	0.1122	6.3	DBPSK @ 1Mbps
		0.0957	6.3	DQPSK @ 2Mbps
		0.1127	6.3	CCK @ 11Mbps
		0.1409	6.3	BP SK @ 9Mbps
		0.1340	6.3	BP SK @ 18Mbps
		0.1483	6.3	16QAM @ 36Mbps
		0.1349	6.3	64QAM @ 54Mbps

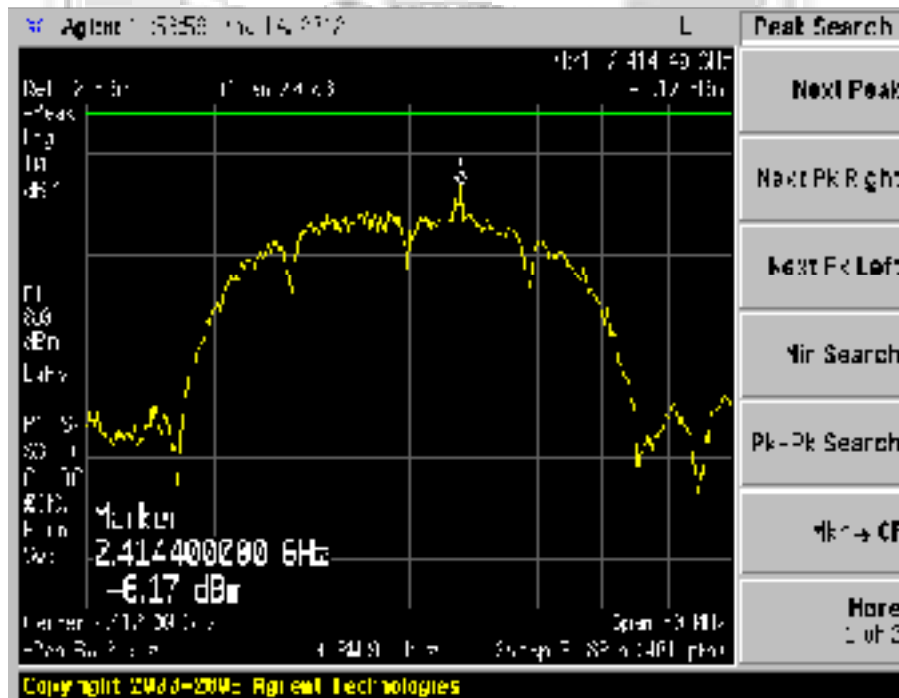


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 583 – Channel 1 (lower ch) @DBPSK 1Mbps

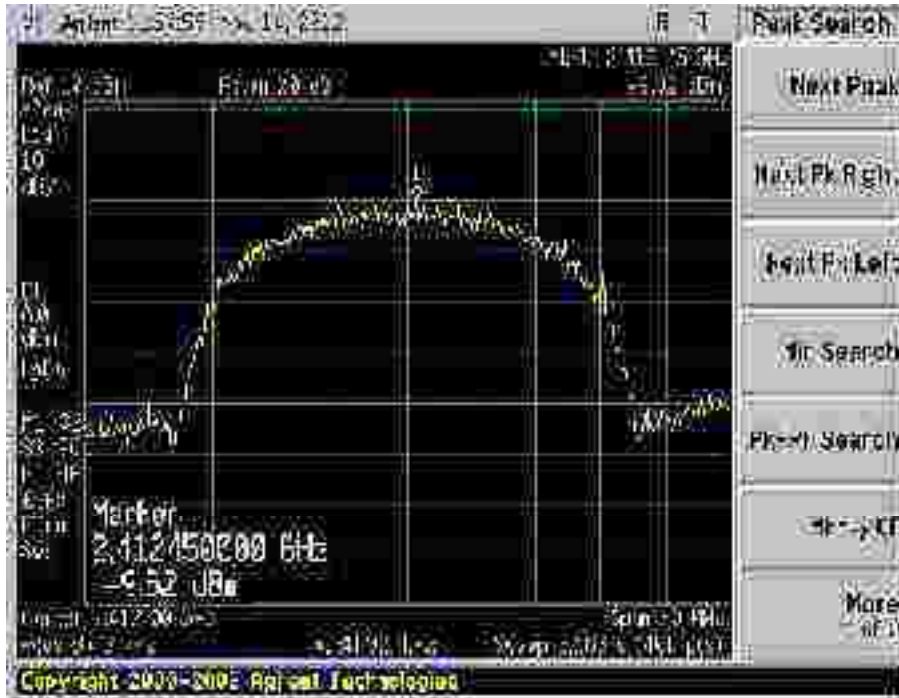


Plot 584 – Channel 1 (lower ch) @DQPSK 2Mbps

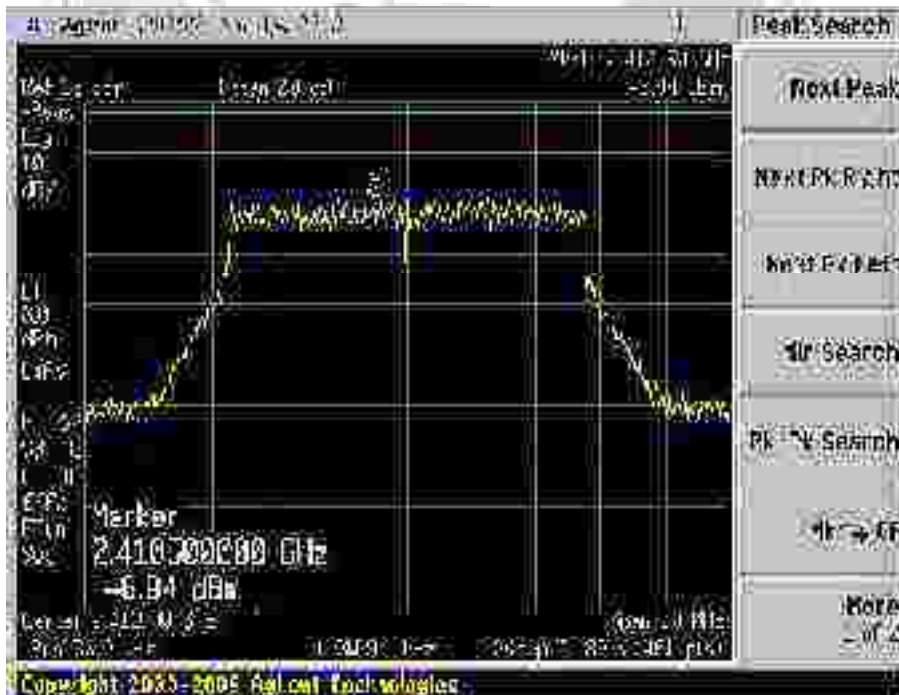


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 585 – Channel 1 (lower ch) @ CCK 11Mbps

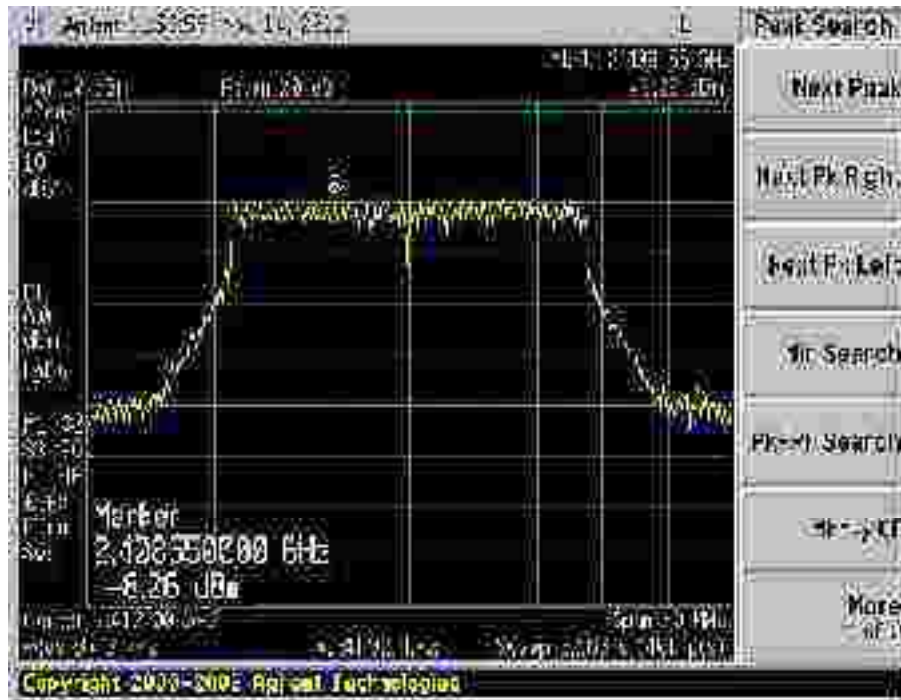


Plot 586 – Channel 1 (lower ch) @ BPSK 9Mbps

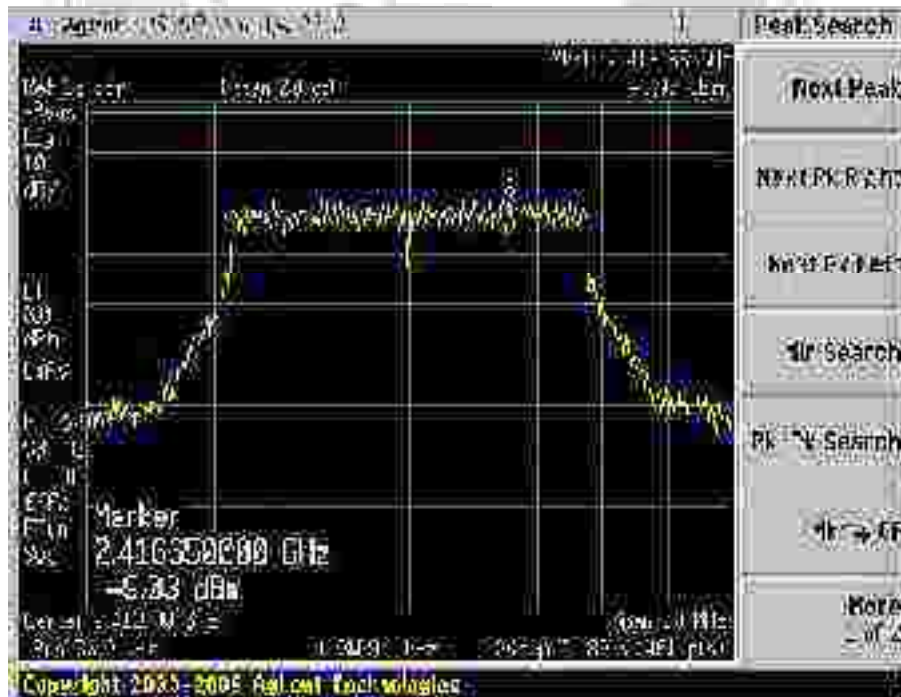


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 587 – Channel 1 (lower ch) @ QPSK 18Mbps

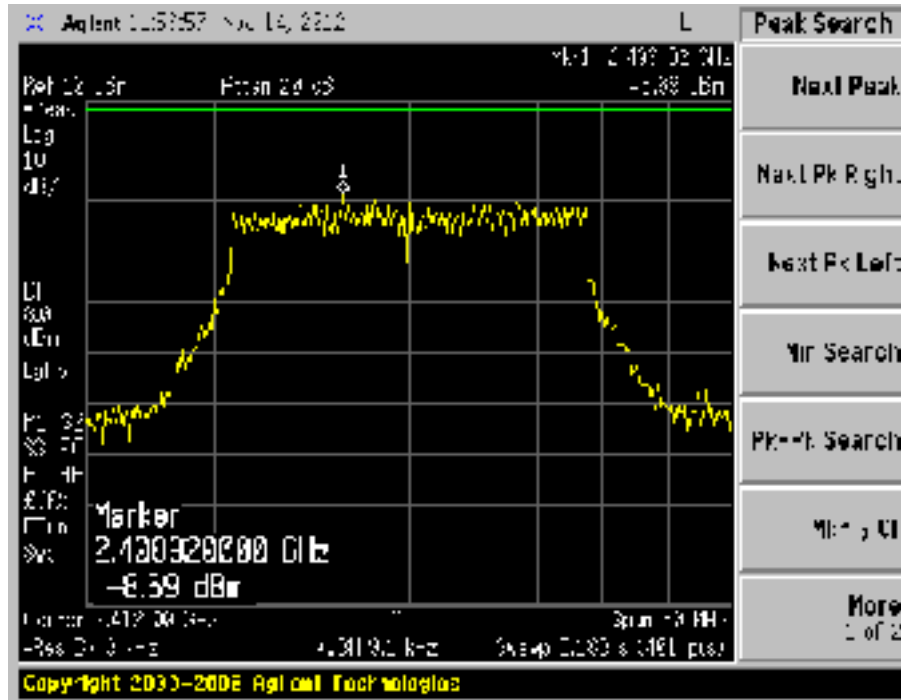


Plot 588 – Channel 1 (lower ch) @ 16QAM 36Mbps



PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



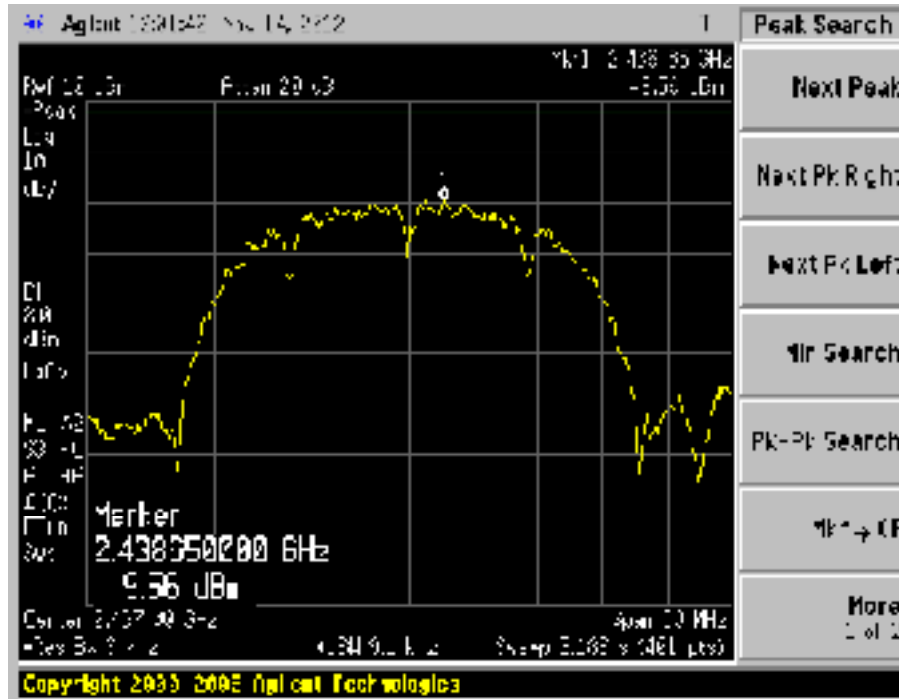
Plot 589 – Channel 1 (lower ch) @64QAM 54Mbps



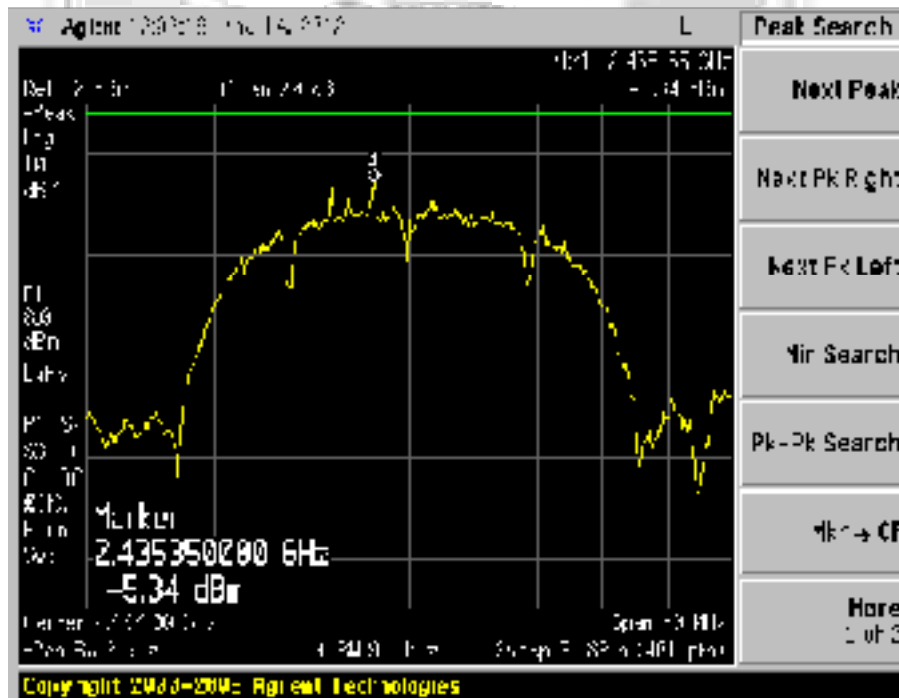


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 590 – Channel 6 (middle ch) @ DBPSK 1Mbps

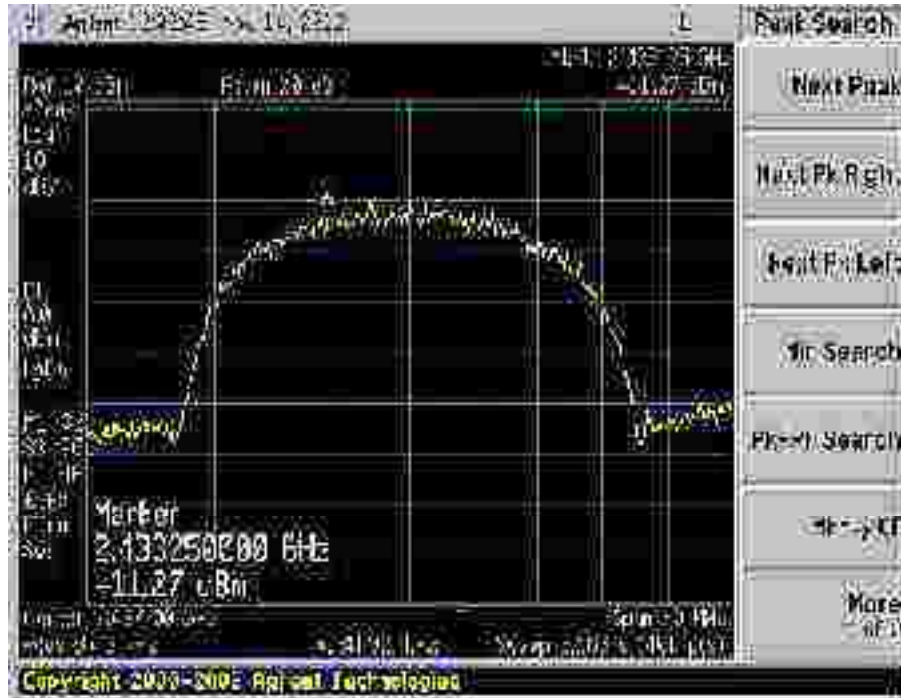


Plot 591 – Channel 6 (middle ch) @ DQPSK 2Mbps

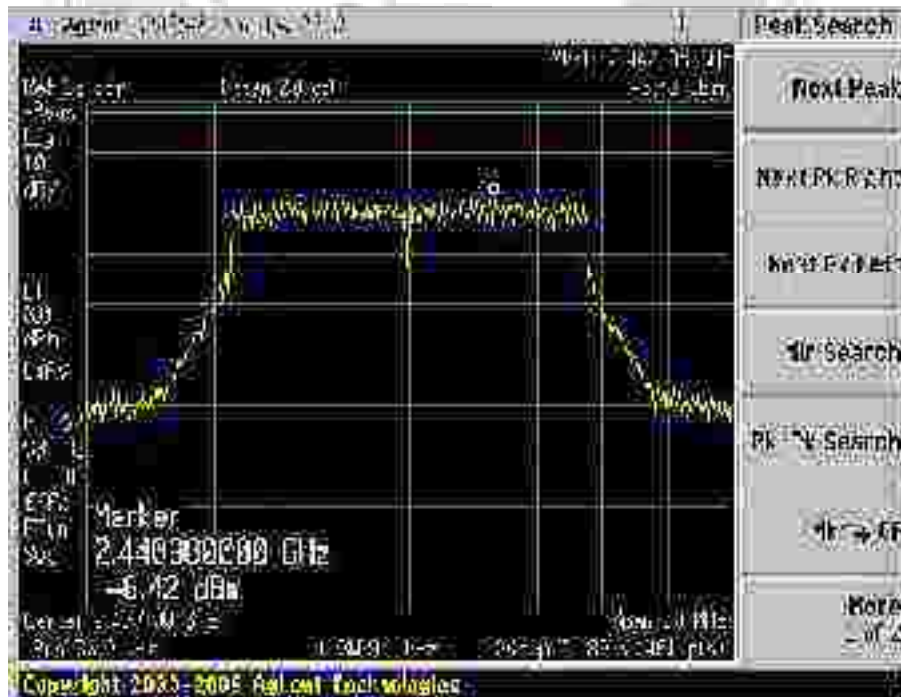


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 592 – Channel 6 (middle ch) @ CCK 11Mbps

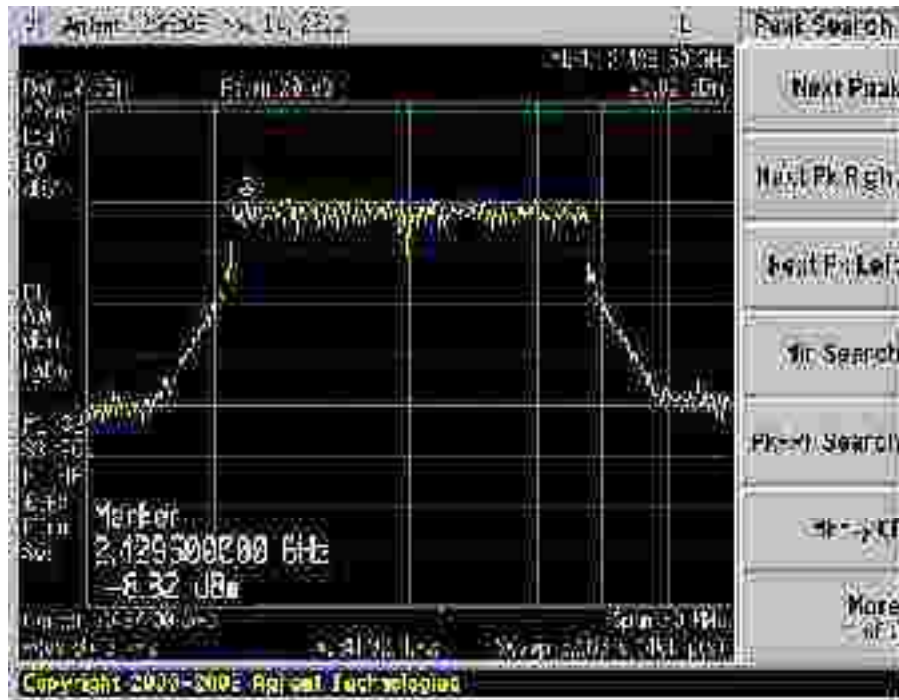


Plot 593 – Channel 6 (middle ch) @ BPSK 9Mbps

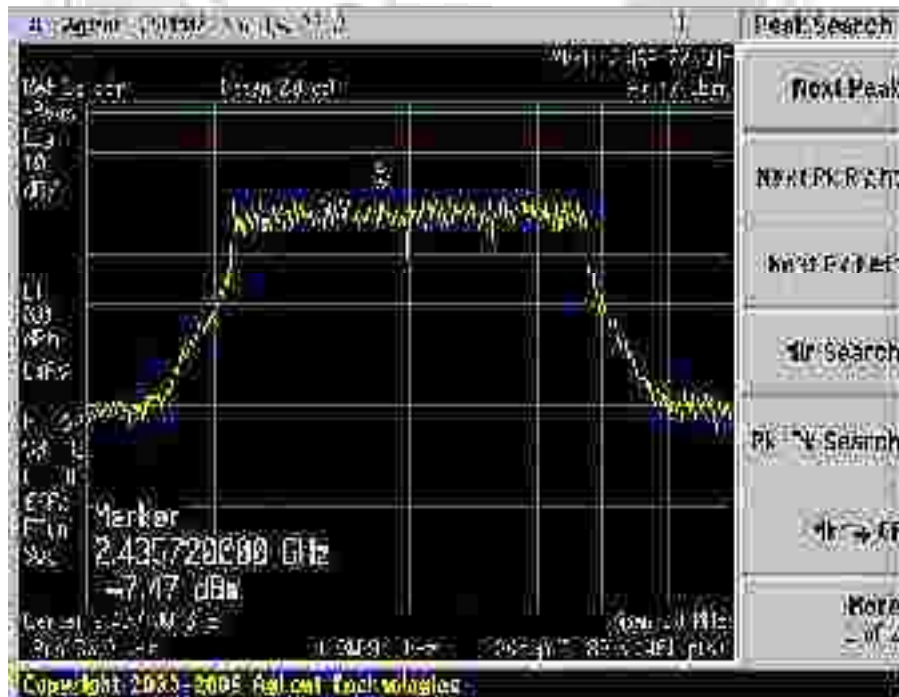


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 594 – Channel 6 (middle ch) @ QPSK 18Mbps

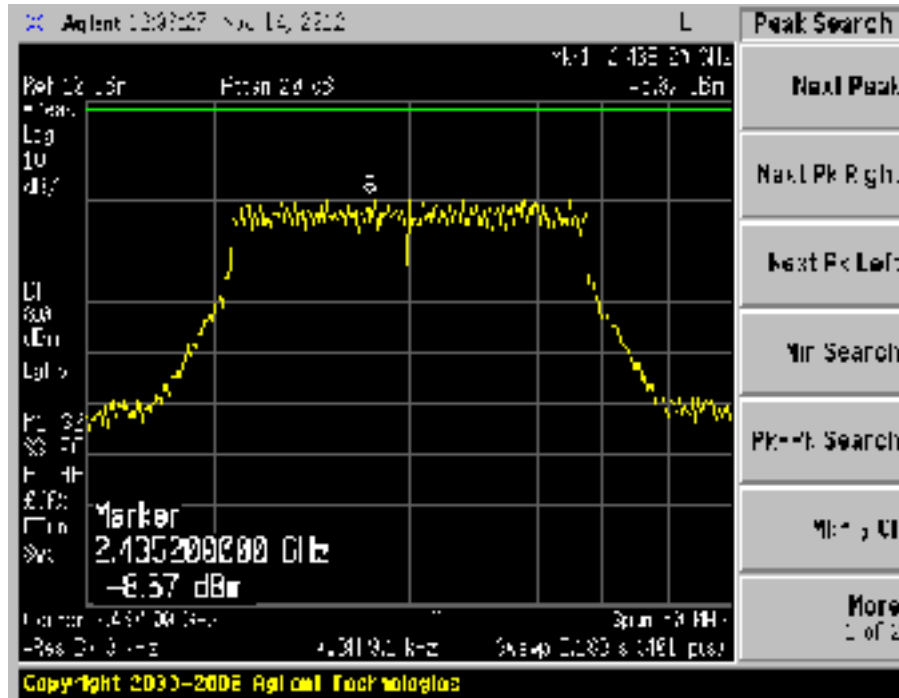


Plot 595 – Channel 6 (middle ch) @ 16QAM 36Mbps



PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



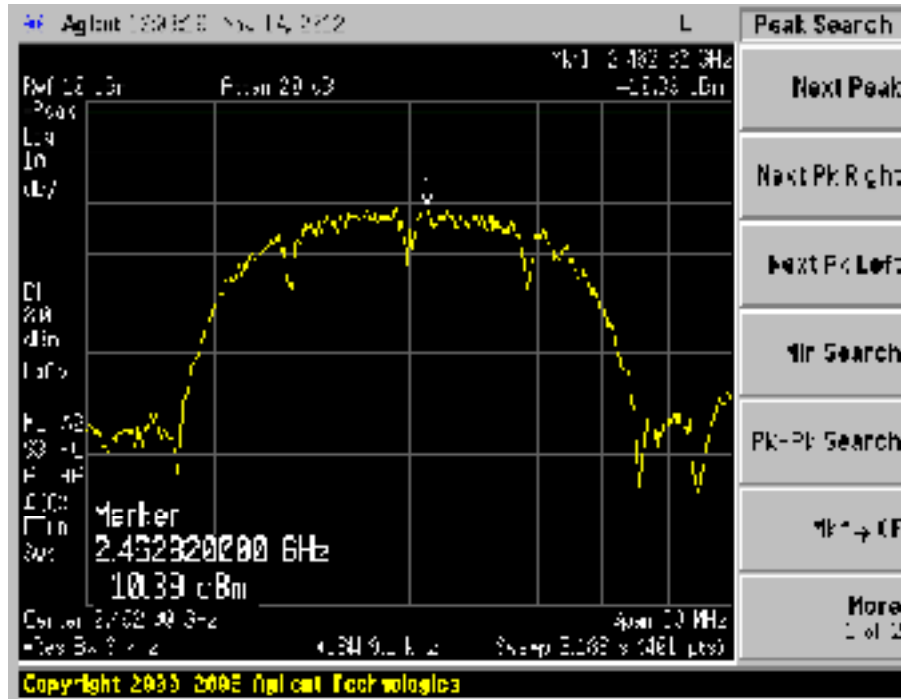
Plot 596 – Channel 6 (*middle ch*) @ 64QAM 54Mbps



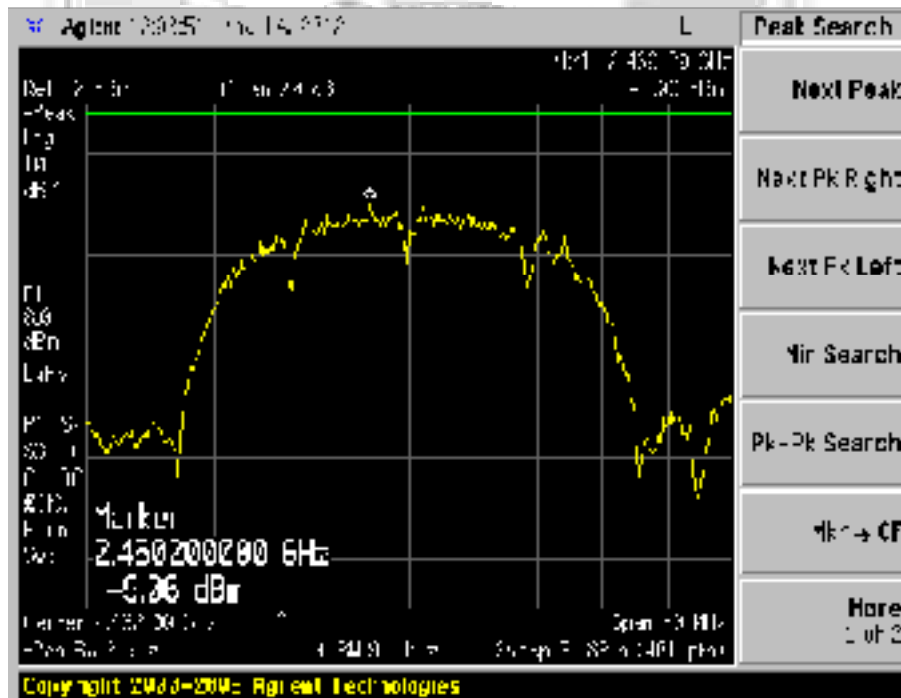


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 597 – Channel 11 (upper ch) @ DBPSK 1Mbps

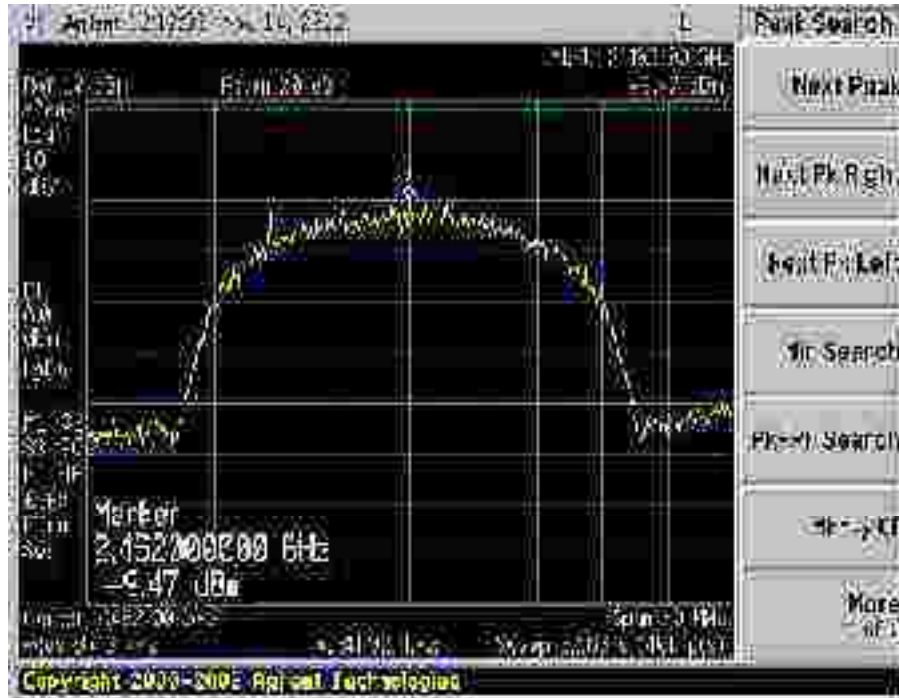


Plot 598 – Channel 11 (upper ch) @ DQPSK 2Mbps

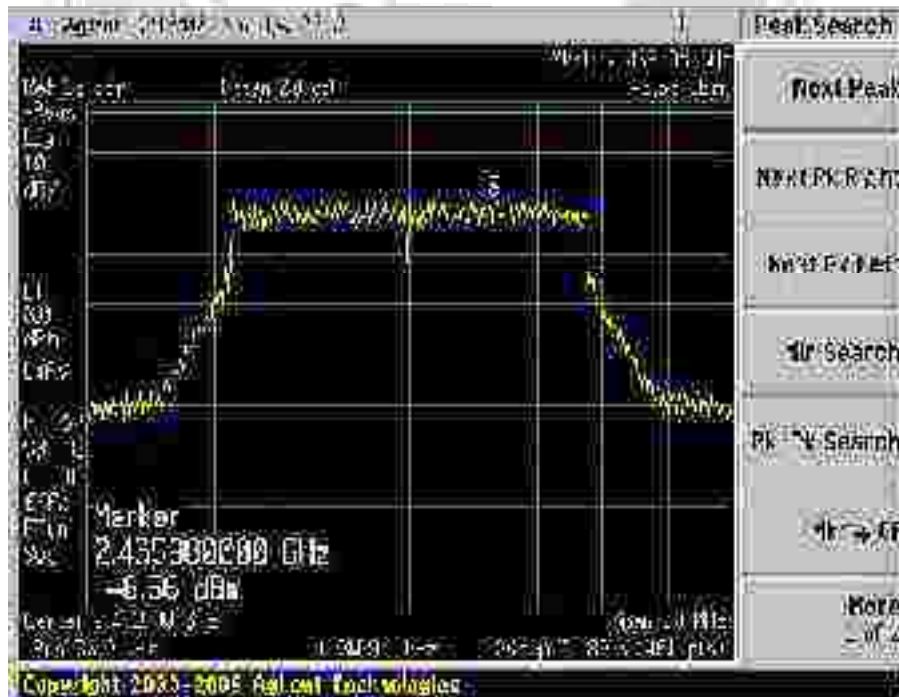


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 599 – Channel 11 (upper ch) @ CCK 11Mbps

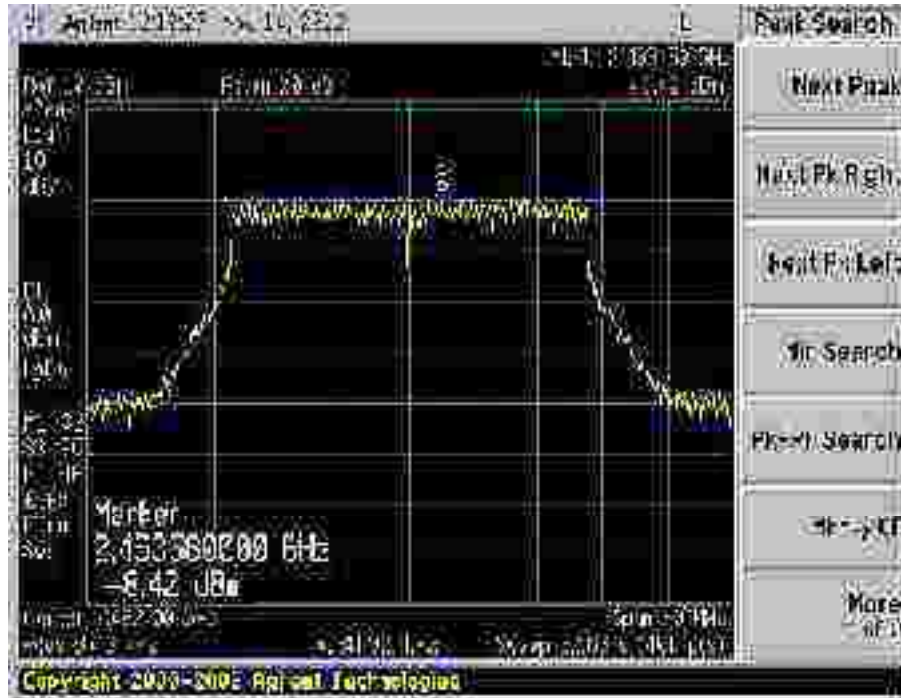


Plot 600 – Channel 11 (upper ch) @ BPSK 9Mbps

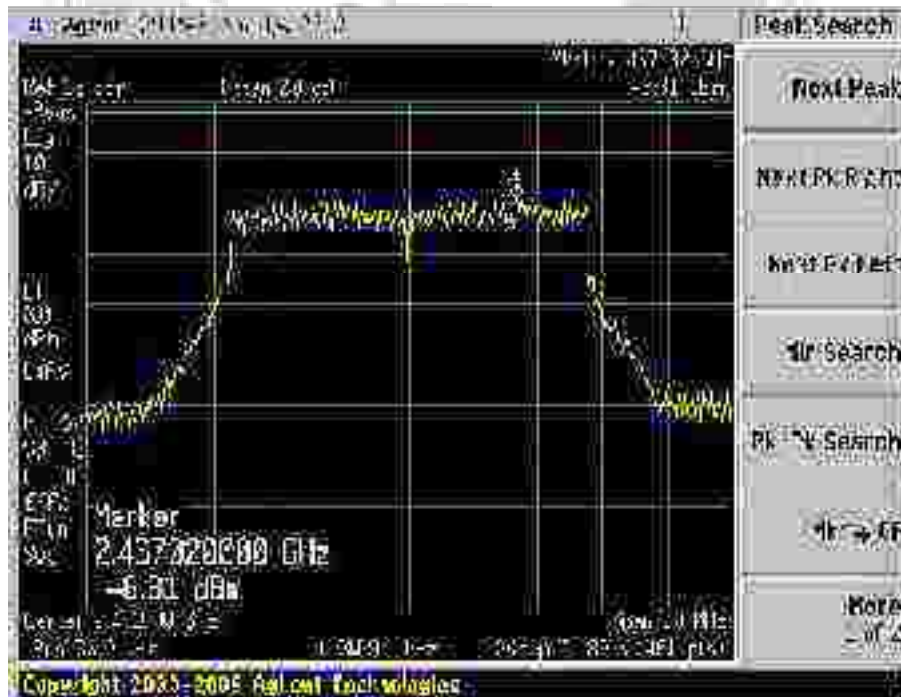


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



Plot 601 – Channel 11 (upper ch) @ QPSK 18Mbps

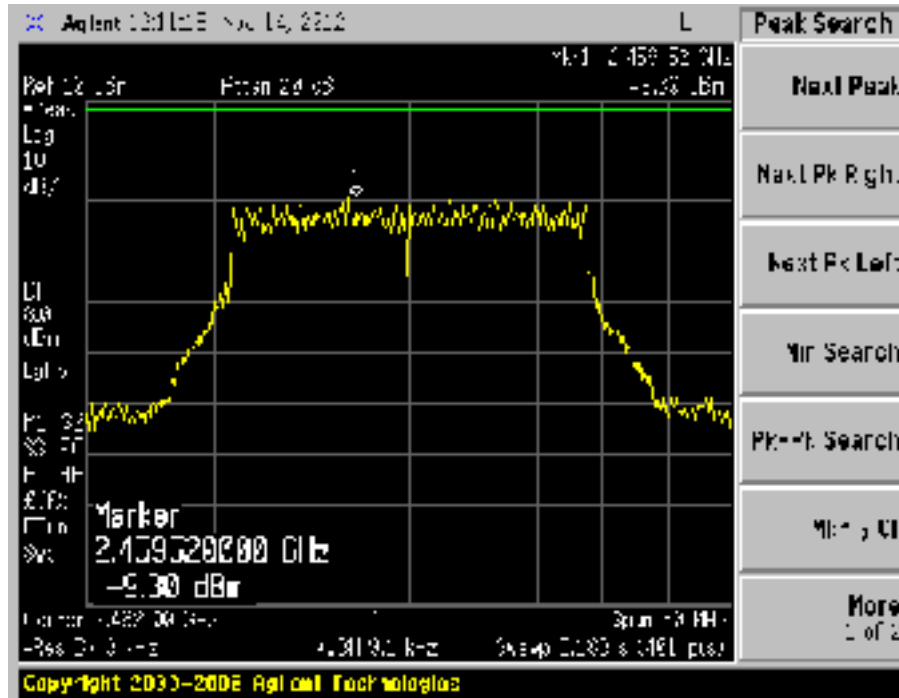


Plot 602 – Channel 11 (upper ch) @ 16QAM 36Mbps



PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 1)



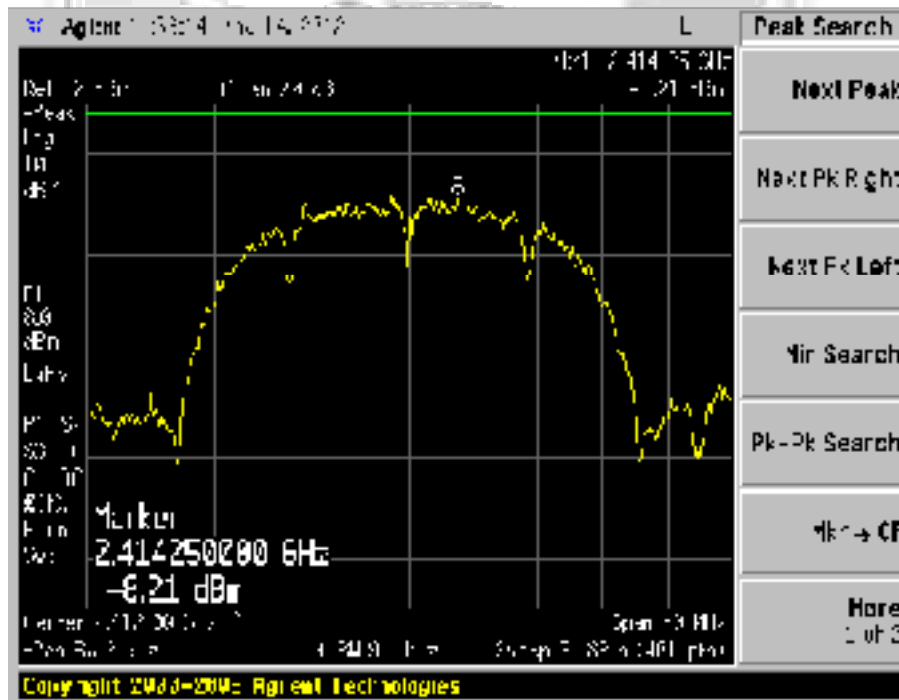
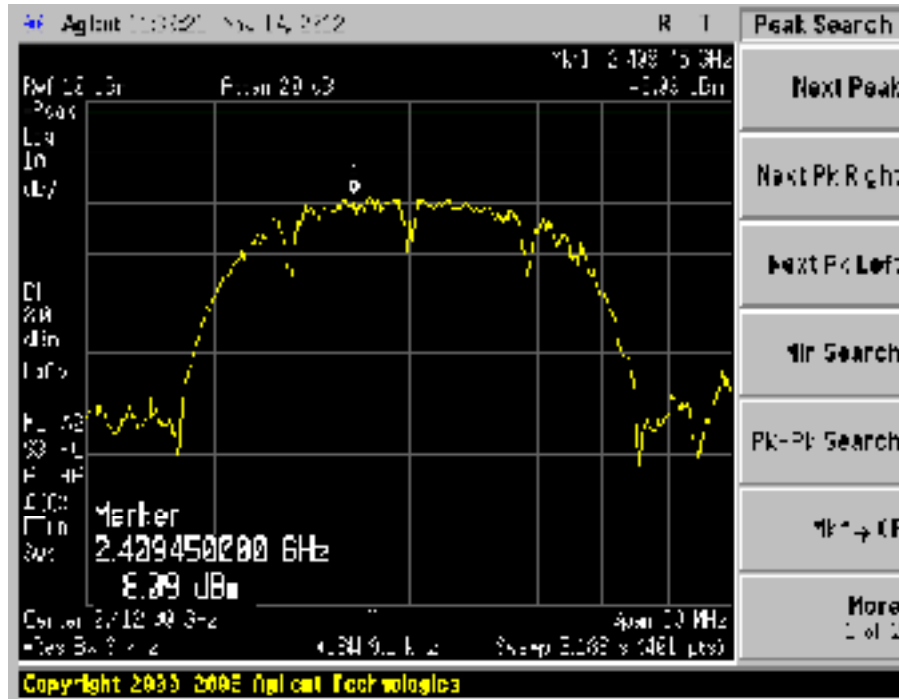
Plot 603 – Channel 11 (upper ch) @ 64QAM 54Mbps





PEAK POWER SPECTRAL DENSITY TEST

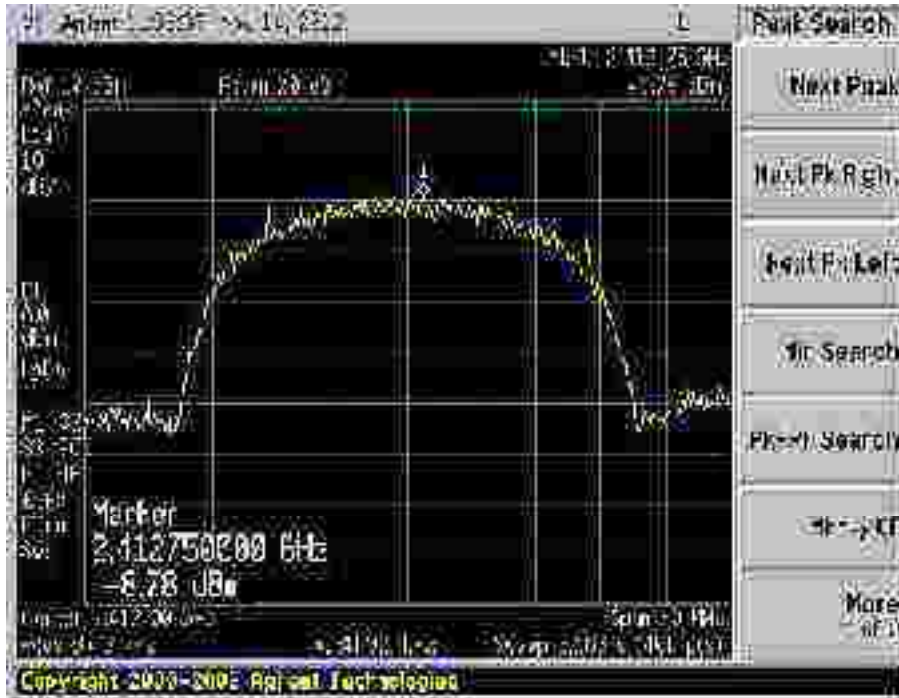
Peak Power Spectral Density Plots (Antenna 2)



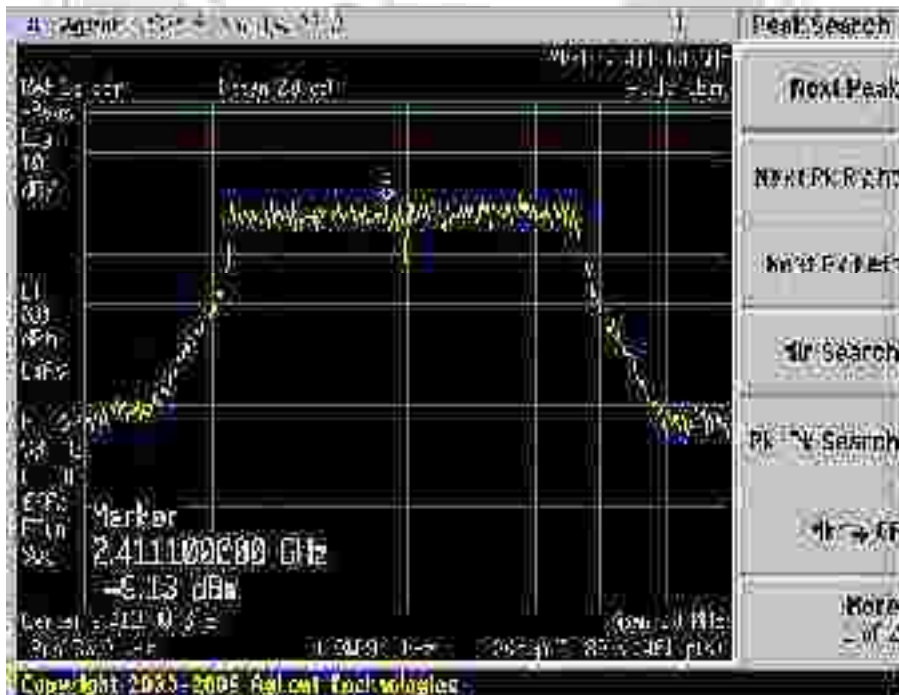


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 606 – Channel 1 (lower ch) @ CCK 11Mbps



Plot 607 – Channel 1 (lower ch) @ BPSK 9Mbps

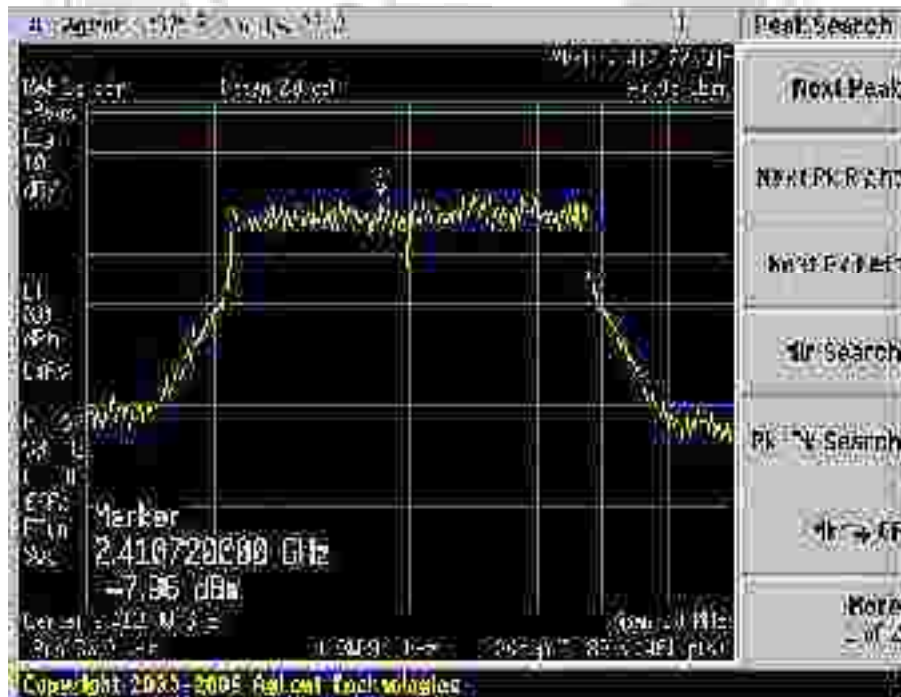


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 608 – Channel 1 (lower ch) @ QPSK 18Mbps

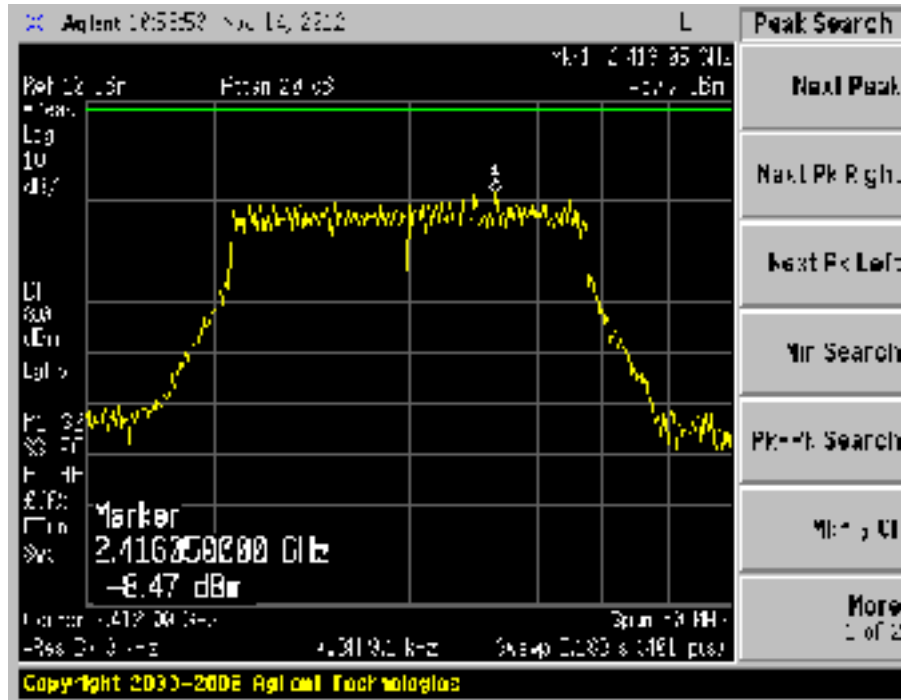


Plot 609 – Channel 1 (lower ch) @ 16QAM 36Mbps

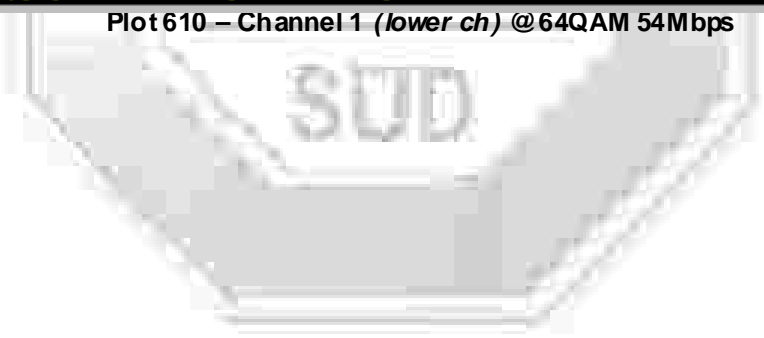


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



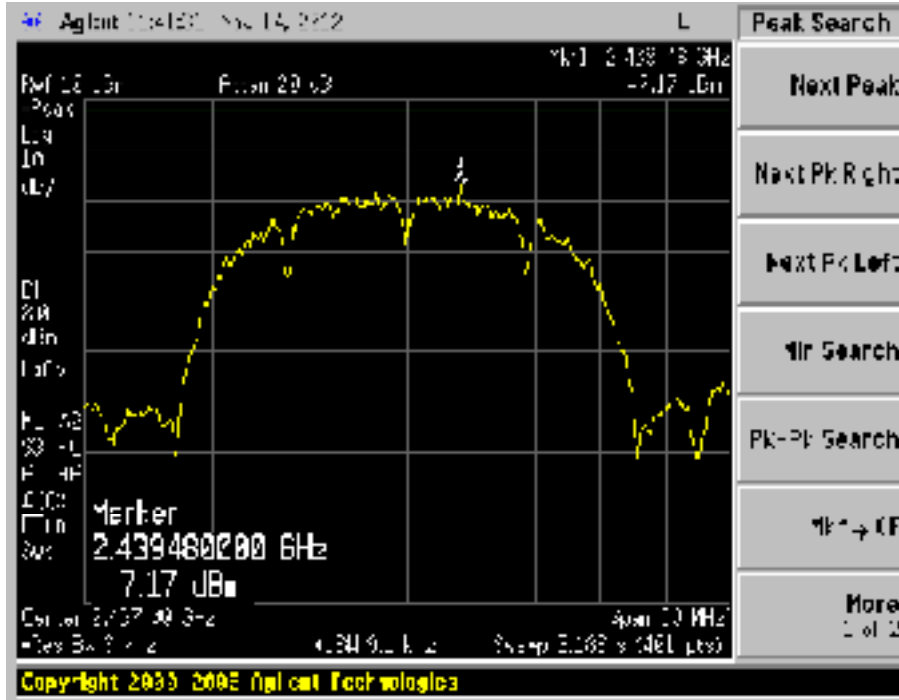
Plot 610 – Channel 1 (lower ch) @64QAM 54Mbps



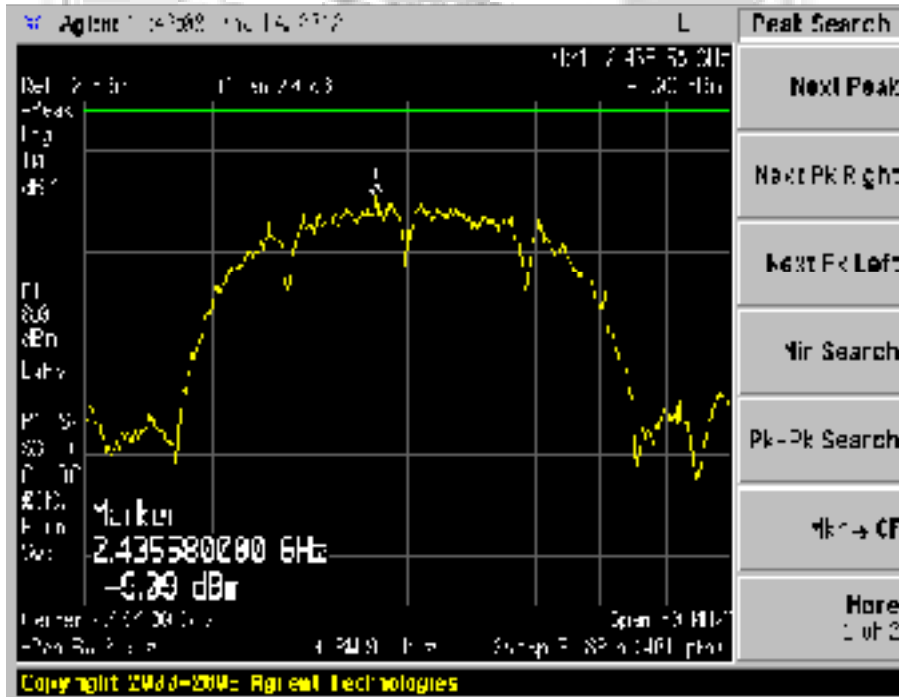


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 611 – Channel 6 (middle ch) @ DBPSK 1Mbps

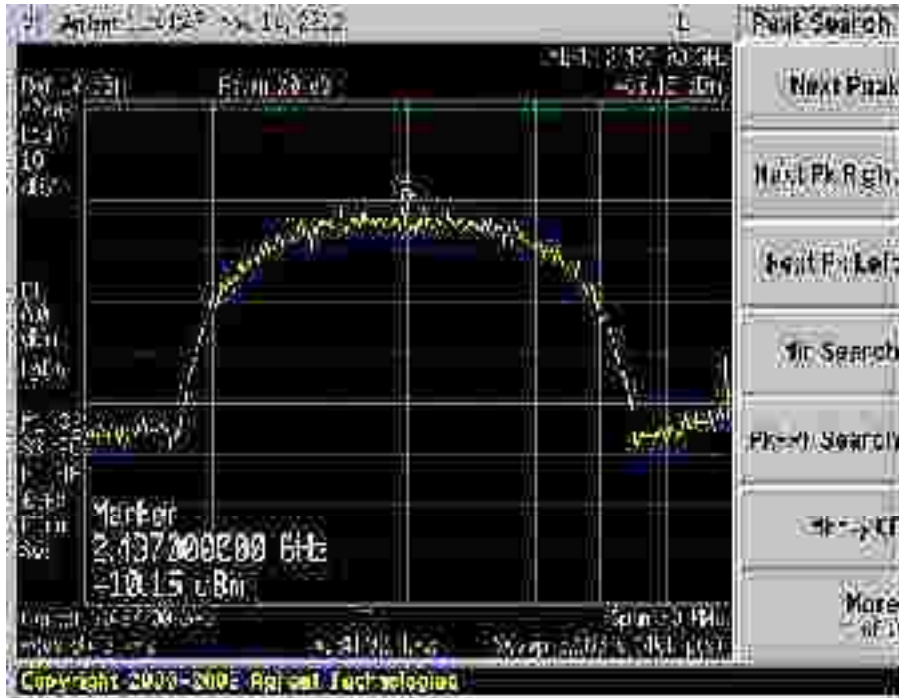


Plot 612 – Channel 6 (middle ch) @ DQPSK 2Mbps

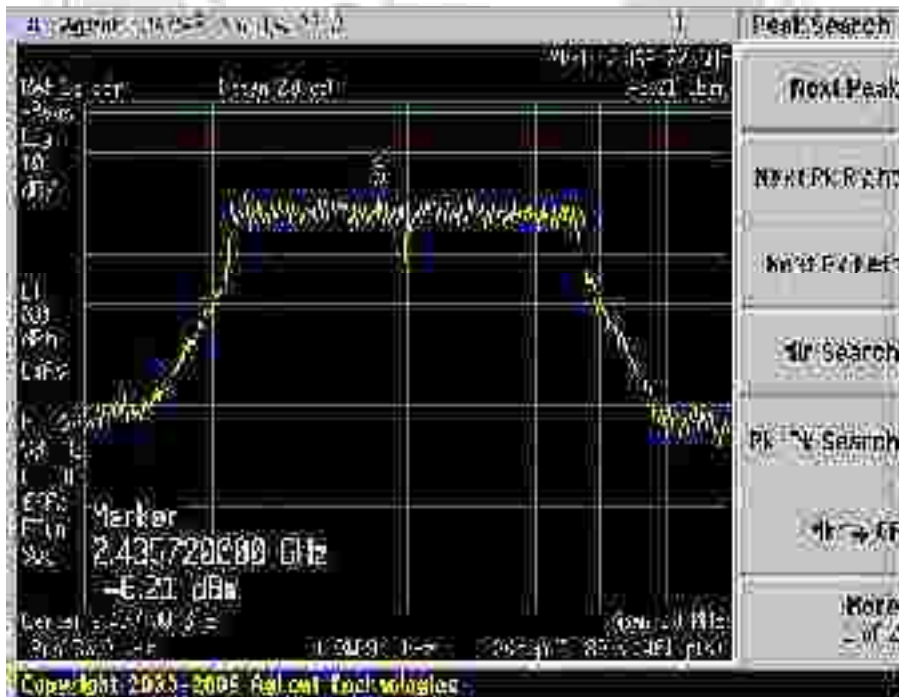


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



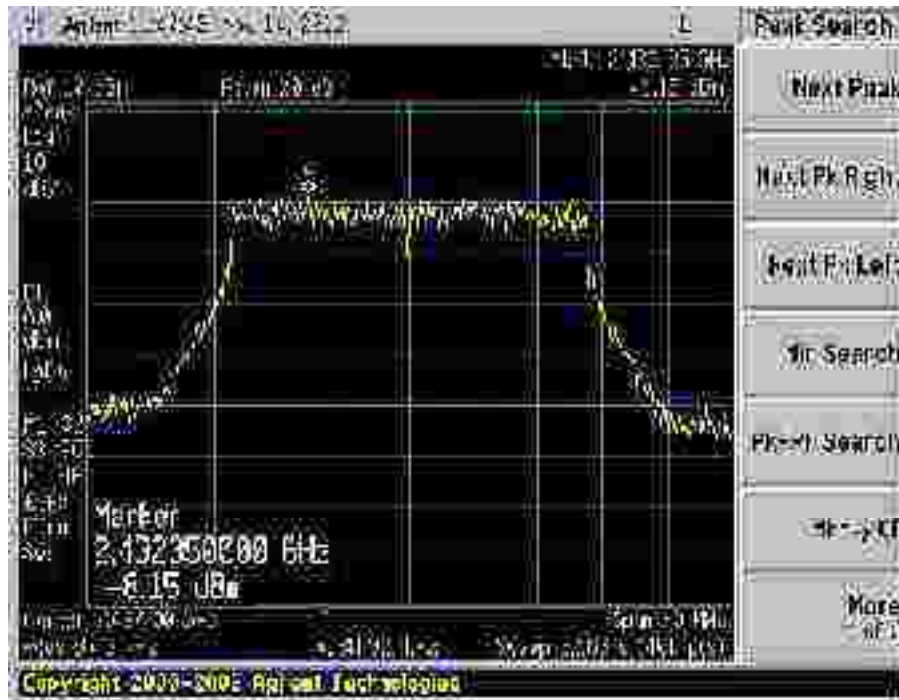
Plot 613 – Channel 6 (middle ch) @ CCK 11Mbps



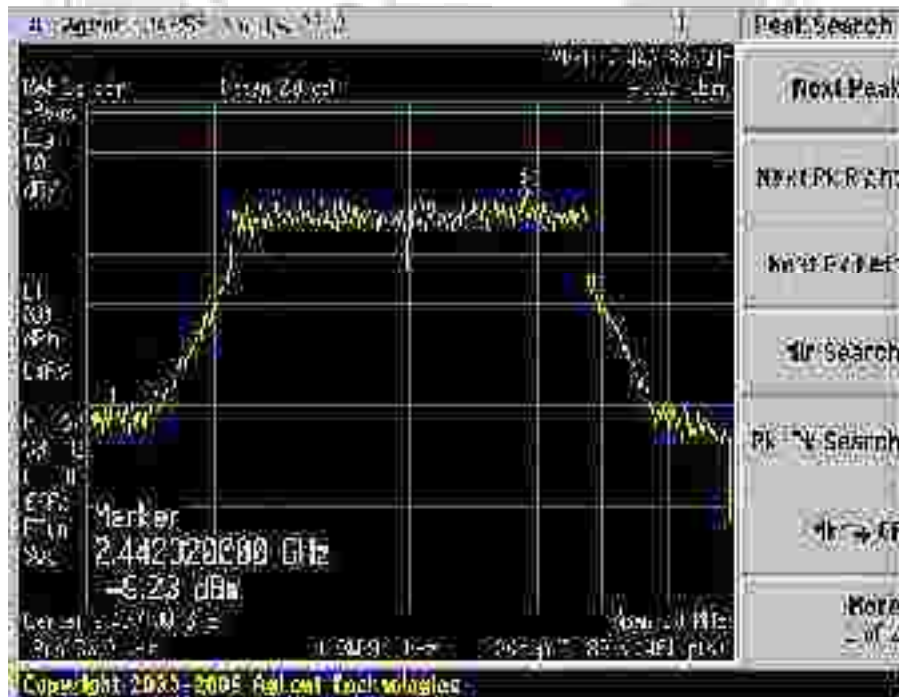
Plot 614 – Channel 6 (middle ch) @ BPSK 9Mbps

PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 615 – Channel 6 (middle ch) @ QPSK 18Mbps

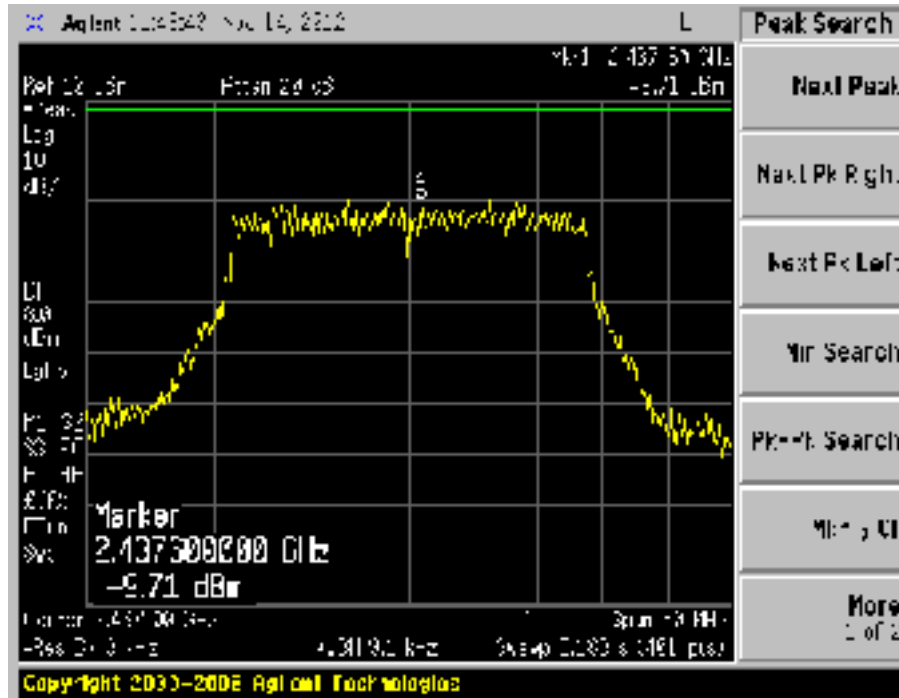


Plot 616 – Channel 6 (middle ch) @ 16QAM 36Mbps



PEAK POWER SPECTRAL DENSITY TEST

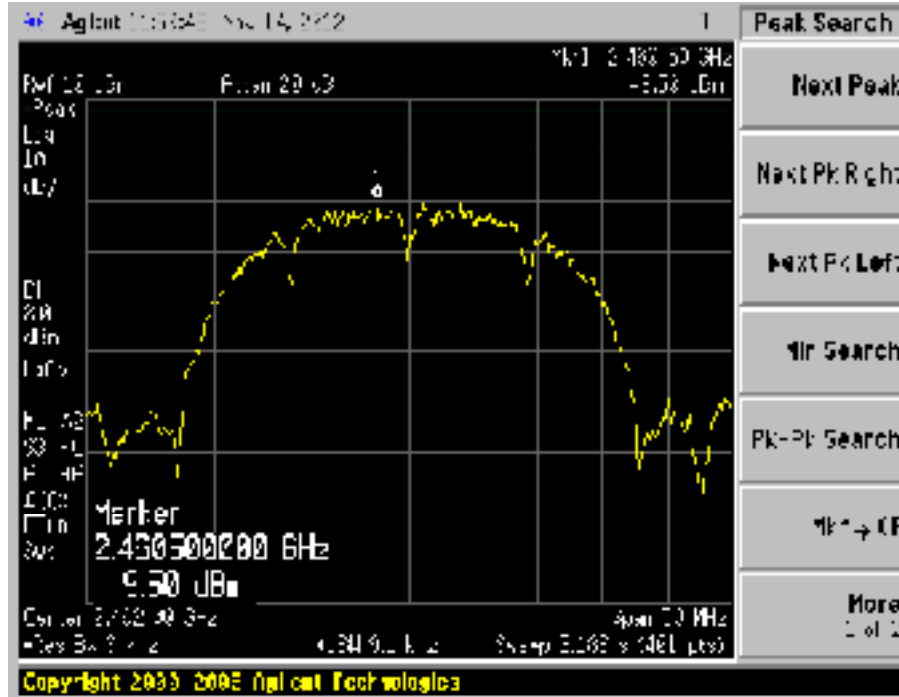
Peak Power Spectral Density Plots (Antenna 2)



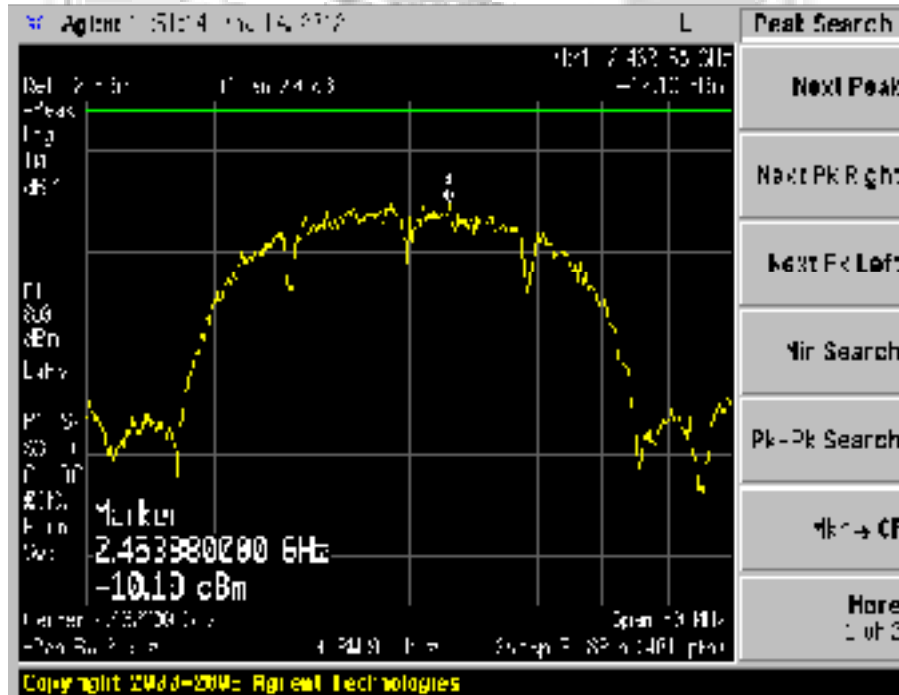


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 618 – Channel 11 (upper ch) @ DBPSK 1Mbps



Plot 619 – Channel 11 (upper ch) @ DQPSK 2Mbps

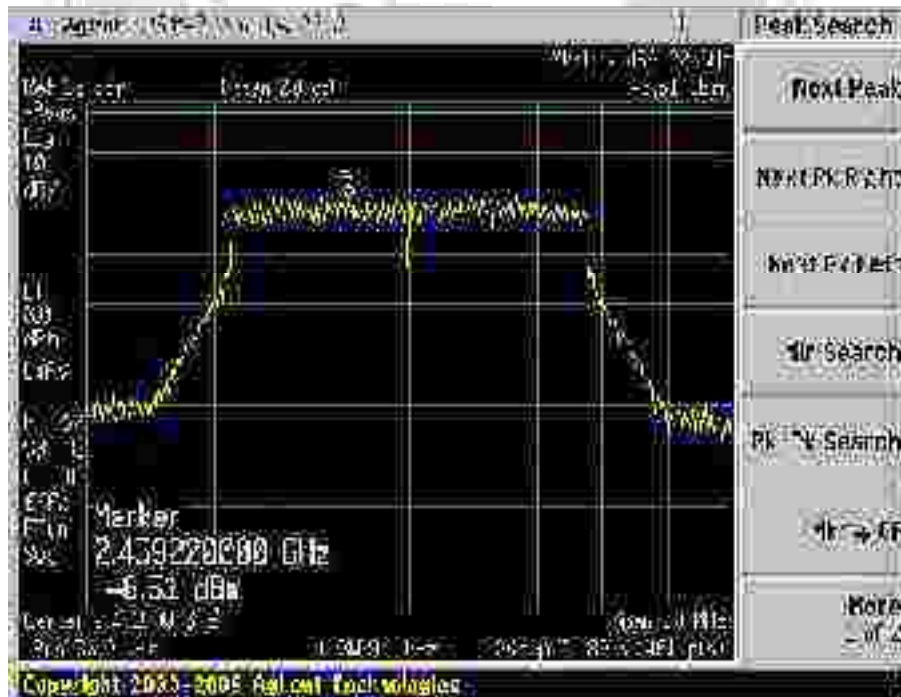


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 620 – Channel 11 (upper ch) @ CCK 11Mbps

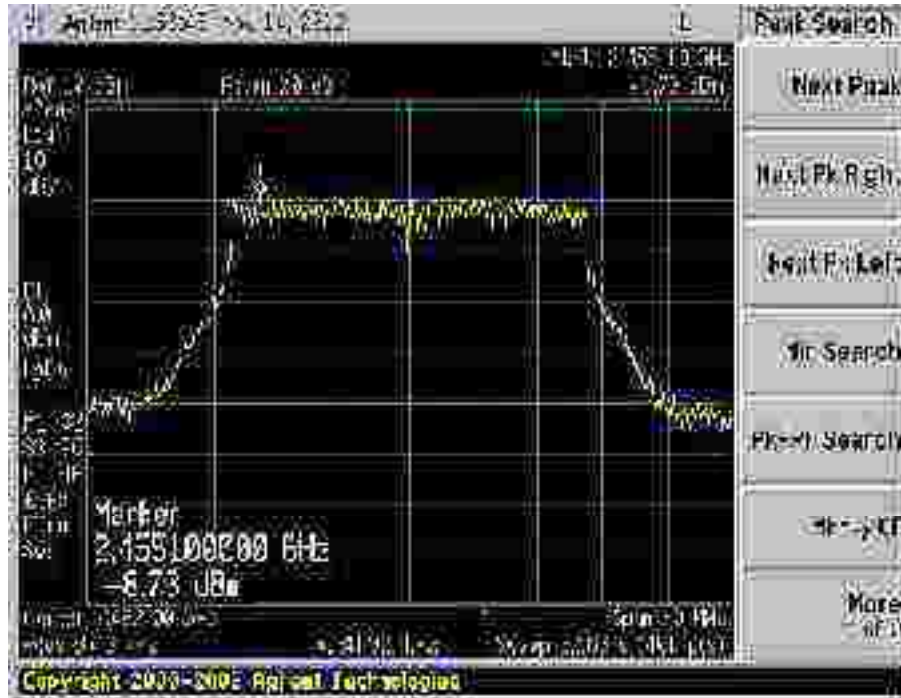


Plot 621 – Channel 11 (upper ch) @ BPSK 9Mbps

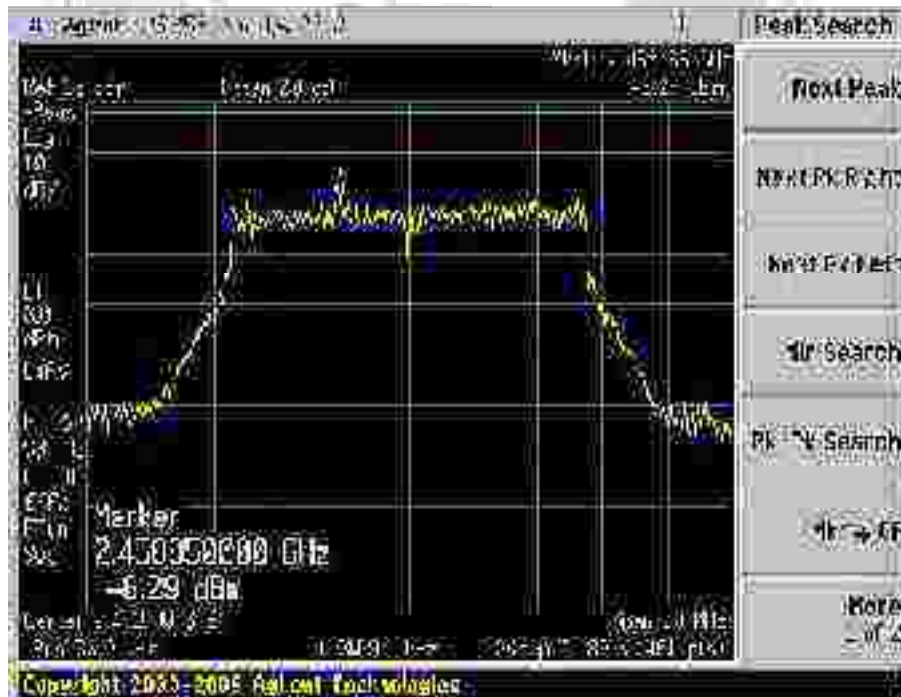


PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 622 – Channel 11 (upper ch) @ QPSK 18Mbps

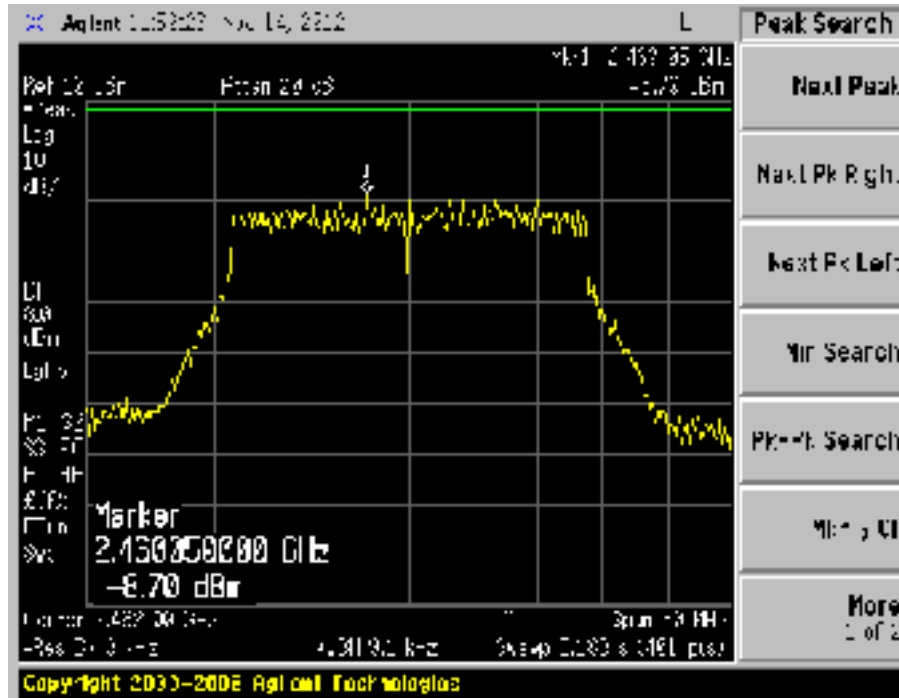


Plot 623 – Channel 11 (upper ch) @ 16QAM 36Mbps



PEAK POWER SPECTRAL DENSITY TEST

Peak Power Spectral Density Plots (Antenna 2)



Plot 624 – Channel 11 (upper ch) @ 64QAM 54Mbps



MAXIMUM PERMISSIBLE EXPOSURE (MPE) TEST

47 CFR FCC Part 1.1310 Maximum Permissible Exposure (MPE) Limits

The EUT shows compliance to the requirements of this section, which states the MPE limits for general population/ uncontrolled exposure are as shown below.

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (min)
0.3 - 1.34	614	1.63	100 ^{Note 2}	30
1.34 - 30	824 / f	2.19 / f	180 / f ² ^{Note 2}	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	-	-	f / 1500	30
1500 - 100000	-	-	1.0	30
Notes				
1. f = frequency in MHz				
2. Plane wave equivalent power density				

47 CFR FCC Part 1.1310 Maximum Permissible Exposure Computation

The power density at 20cm distance was computed from the following formula:

$$S = \frac{(30GP)}{(377d^2)}$$

where

- S = Power density in W/m²
- P = 0.0500W
- d = Test distance at 0.2m
- G = Numerical isotropic gain, 1.59 (2.0dBi)

Substituting the relevant parameters into the formula:

$$S = \frac{[(30GP)}{377d^2]}$$

$$= 0.1576W/m^2$$

$$= 0.0158mW/cm^2$$

■ The power density of the EUT at 20cm distance is 0.0158mW/cm² based on the above computation and found to be lower than the power density limit of 1.0mW/cm².

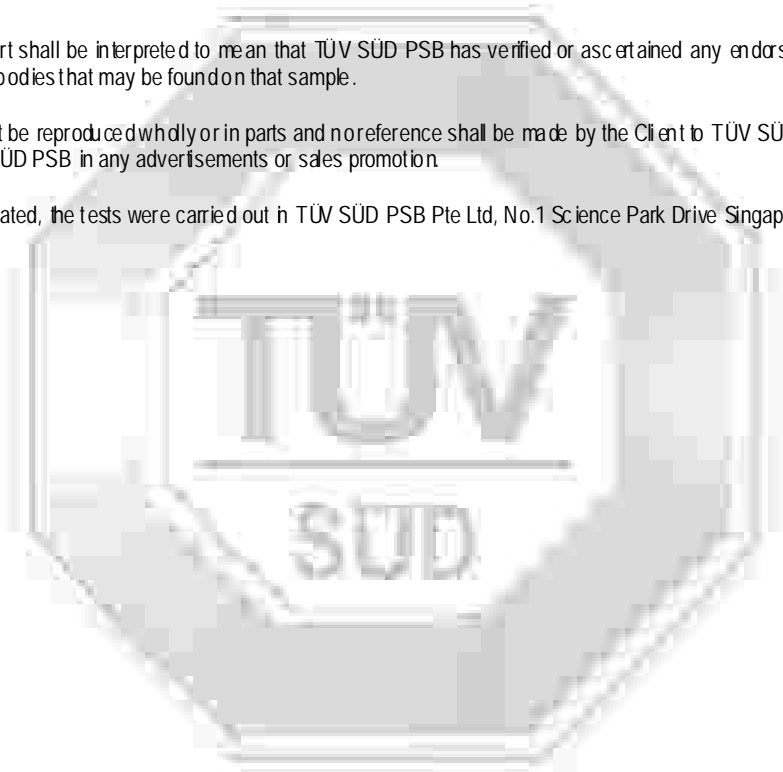
Test Report No. 7191046193-EEC12/01
dated 27 Nov 2012



Please note that this Report is issued under the following terms :

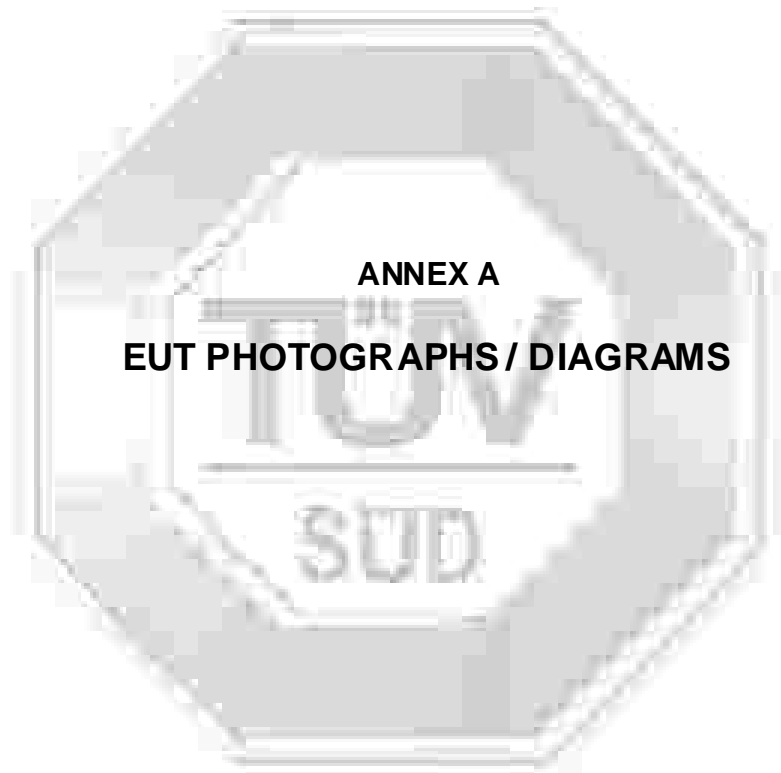
1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
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5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011





ANNEX A EUT PHOTOGRAPHS / DIAGRAMS



ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



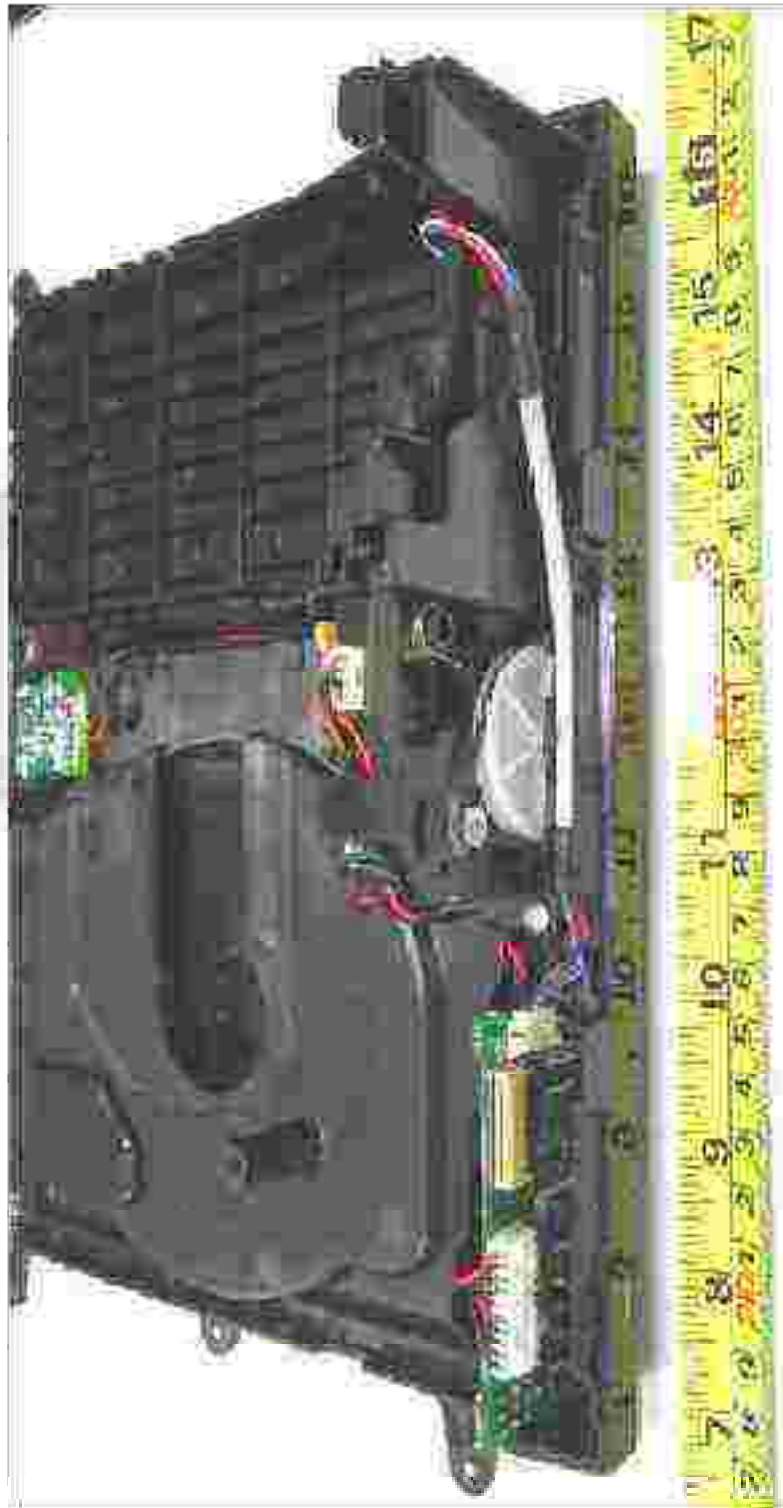
Front View



Rear View

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



EUT Internal Top View (Front Panel)

/ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



EUT Internal Bottom View

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

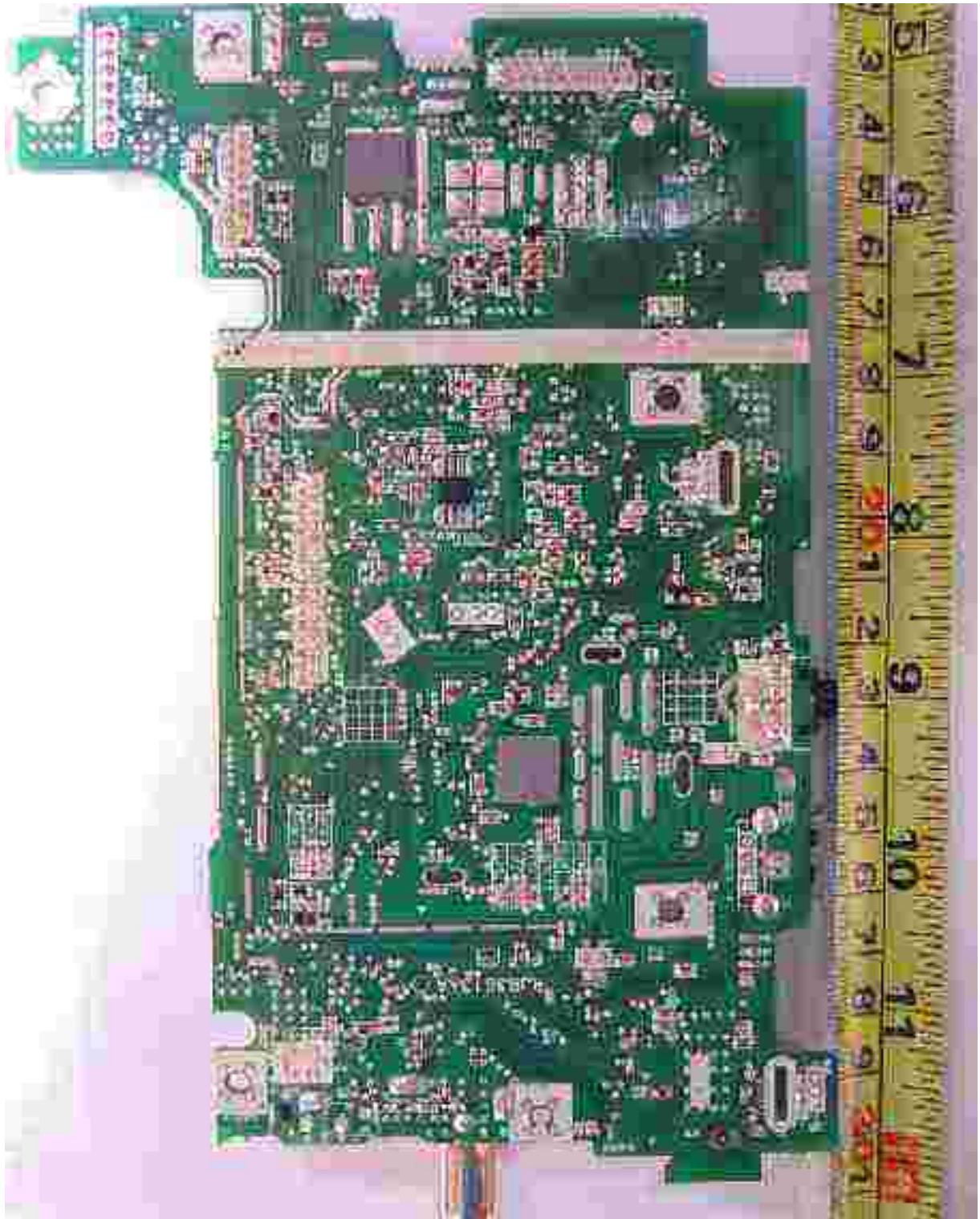
EUT PHOTOGRAPHS



Main-Board PCB Component Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

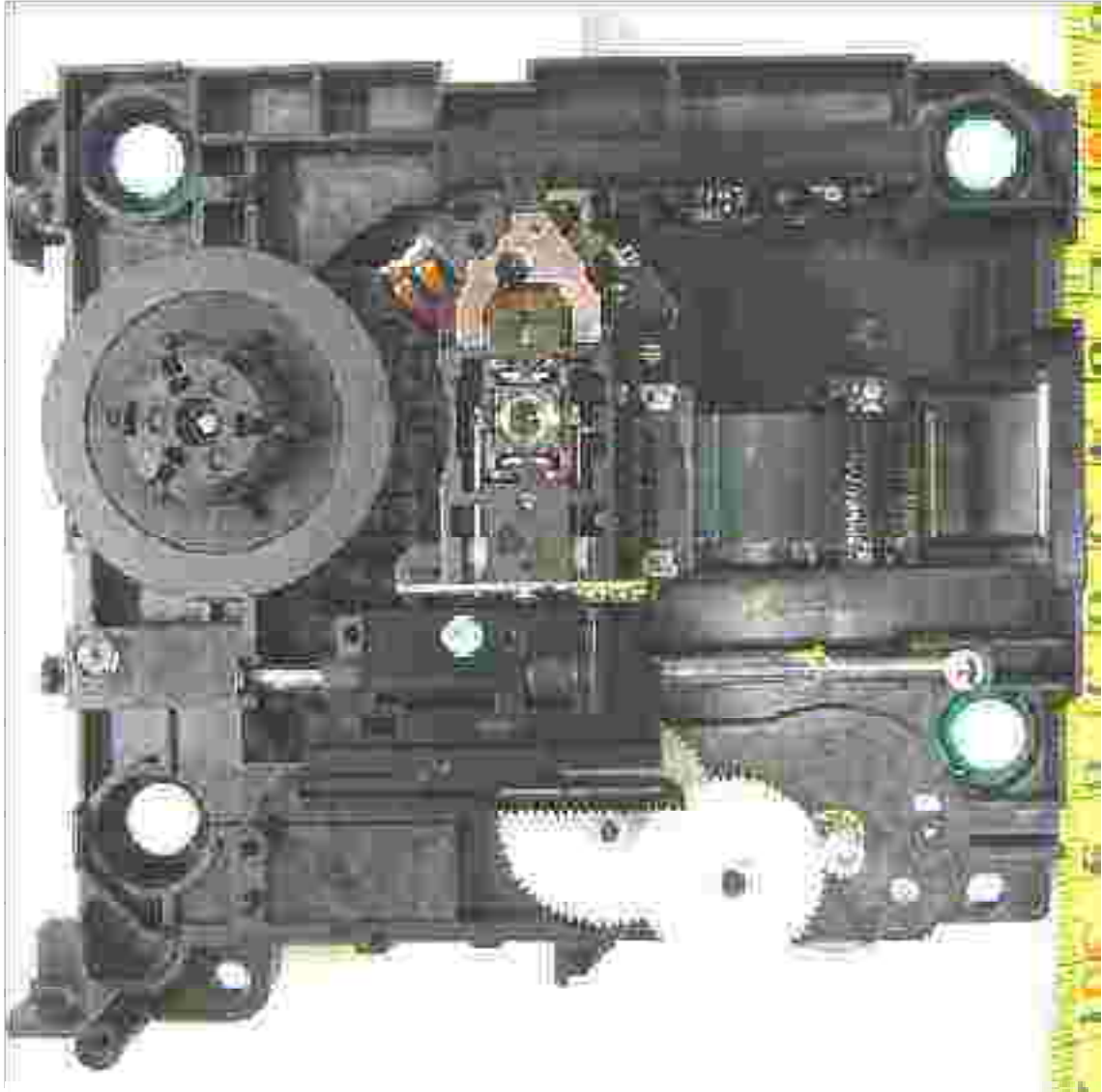
EUT PHOTOGRAPHS



Main-Board PCB Trace Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

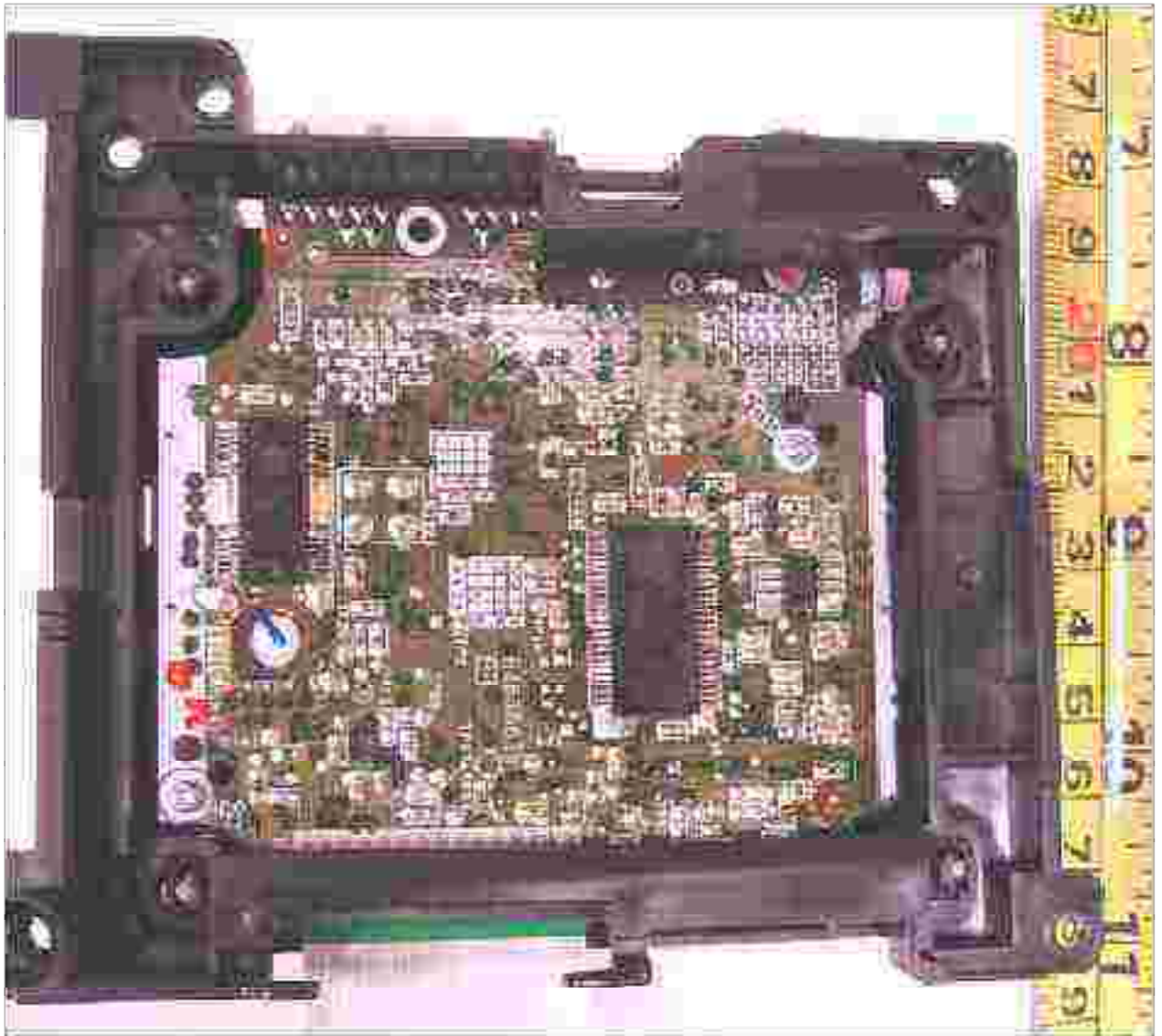
EUT PHOTOGRAPHS



Mega-Board PCB Component Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

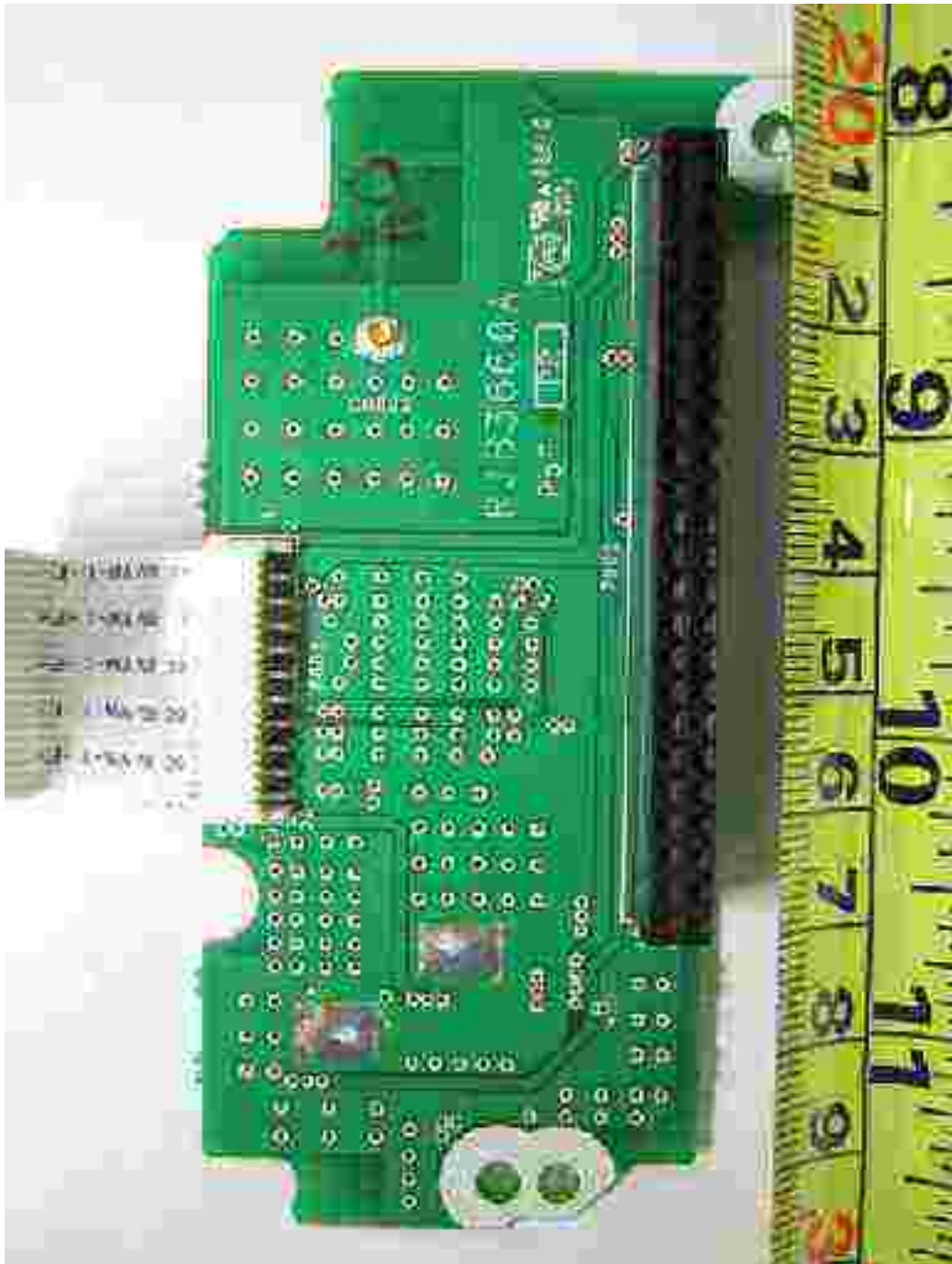
EUT PHOTOGRAPHS



Mega-Board PCB Trace Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

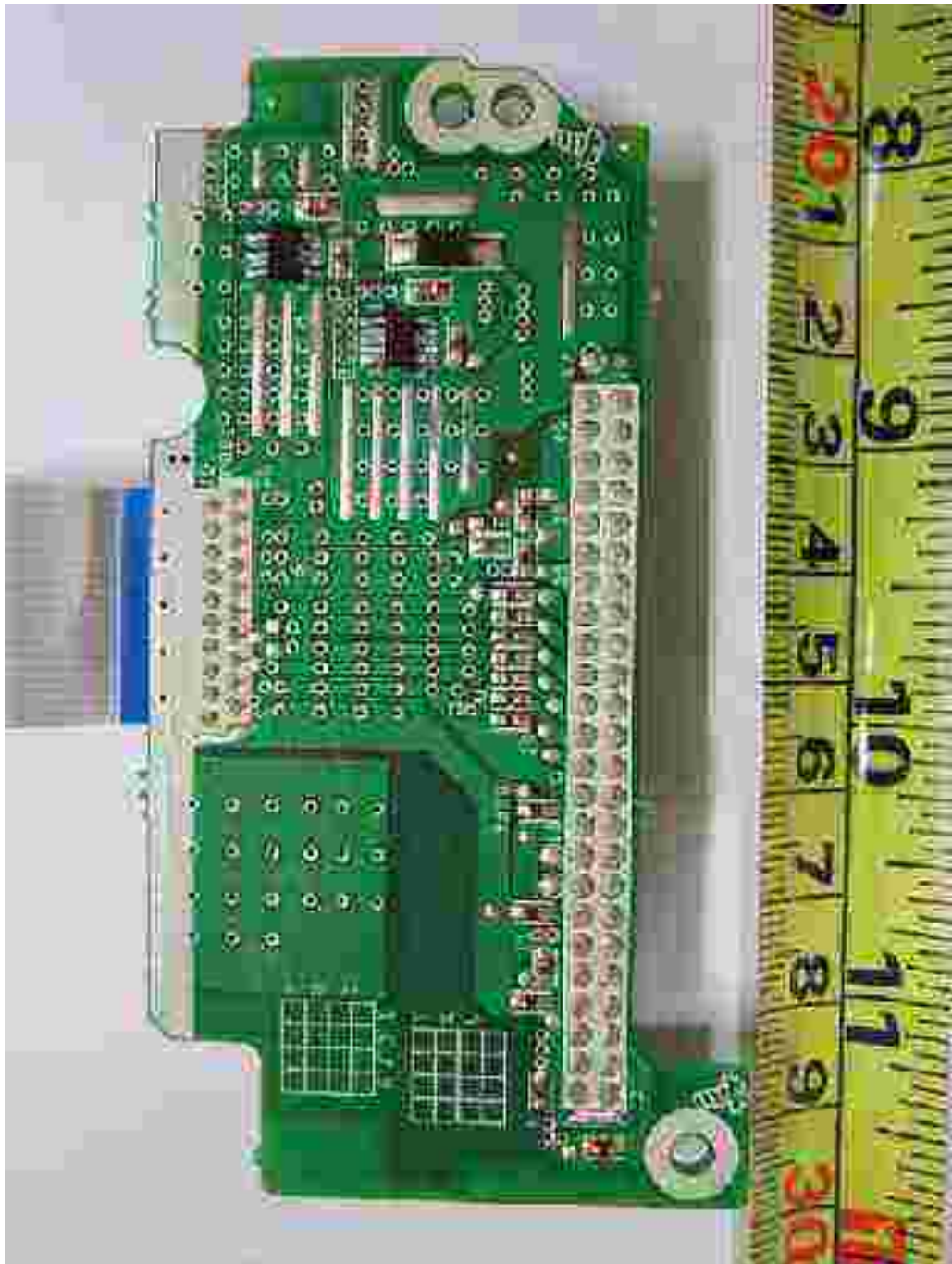
EUT PHOTOGRAPHS



Bridge Board PCB Component Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



Bridge Board PCB Trace Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



Air Play Board & External Antennal Board PCB Trace Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

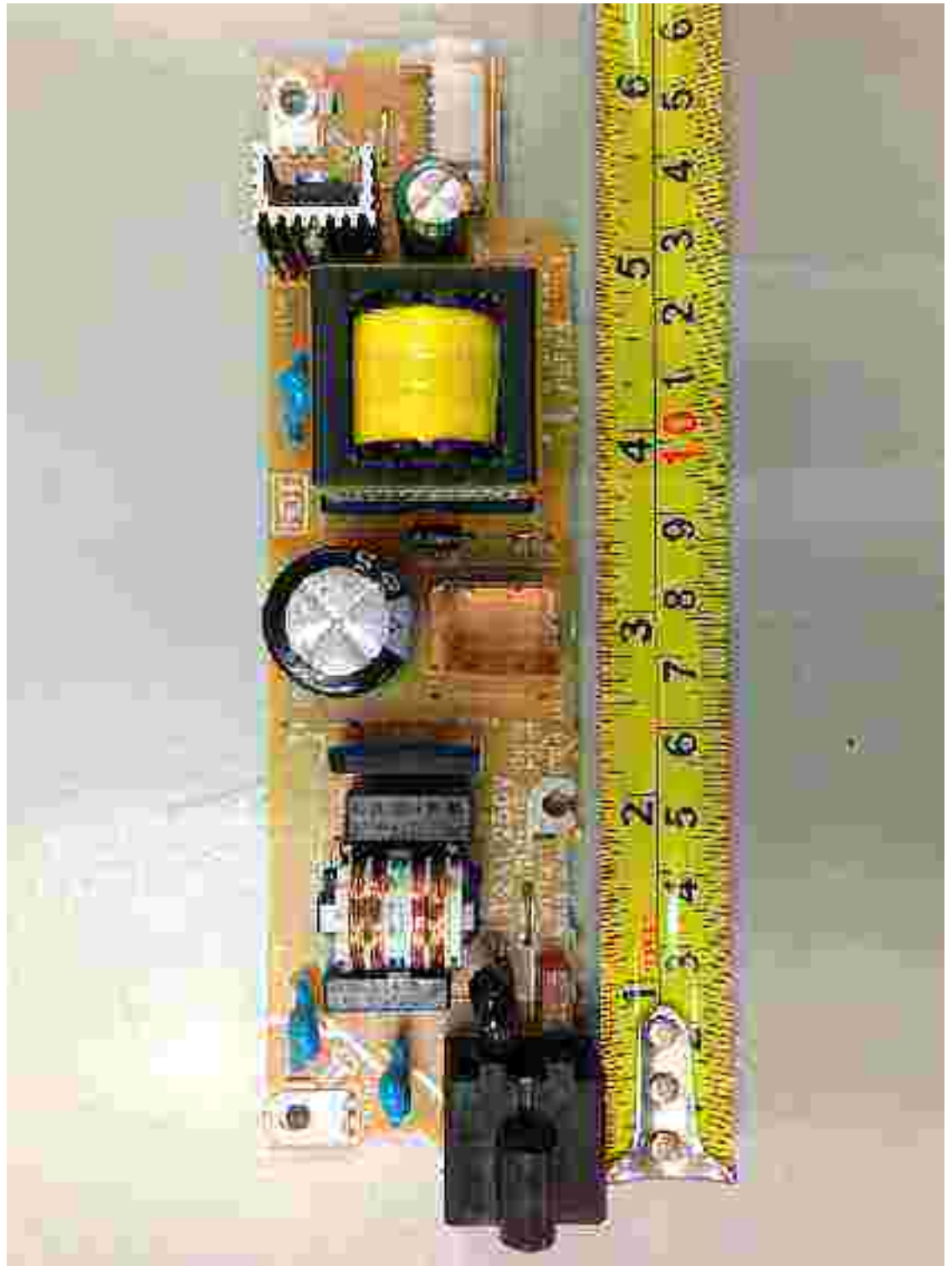
EUT PHOTOGRAPHS



AirPlay Board & External Antenna Board

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

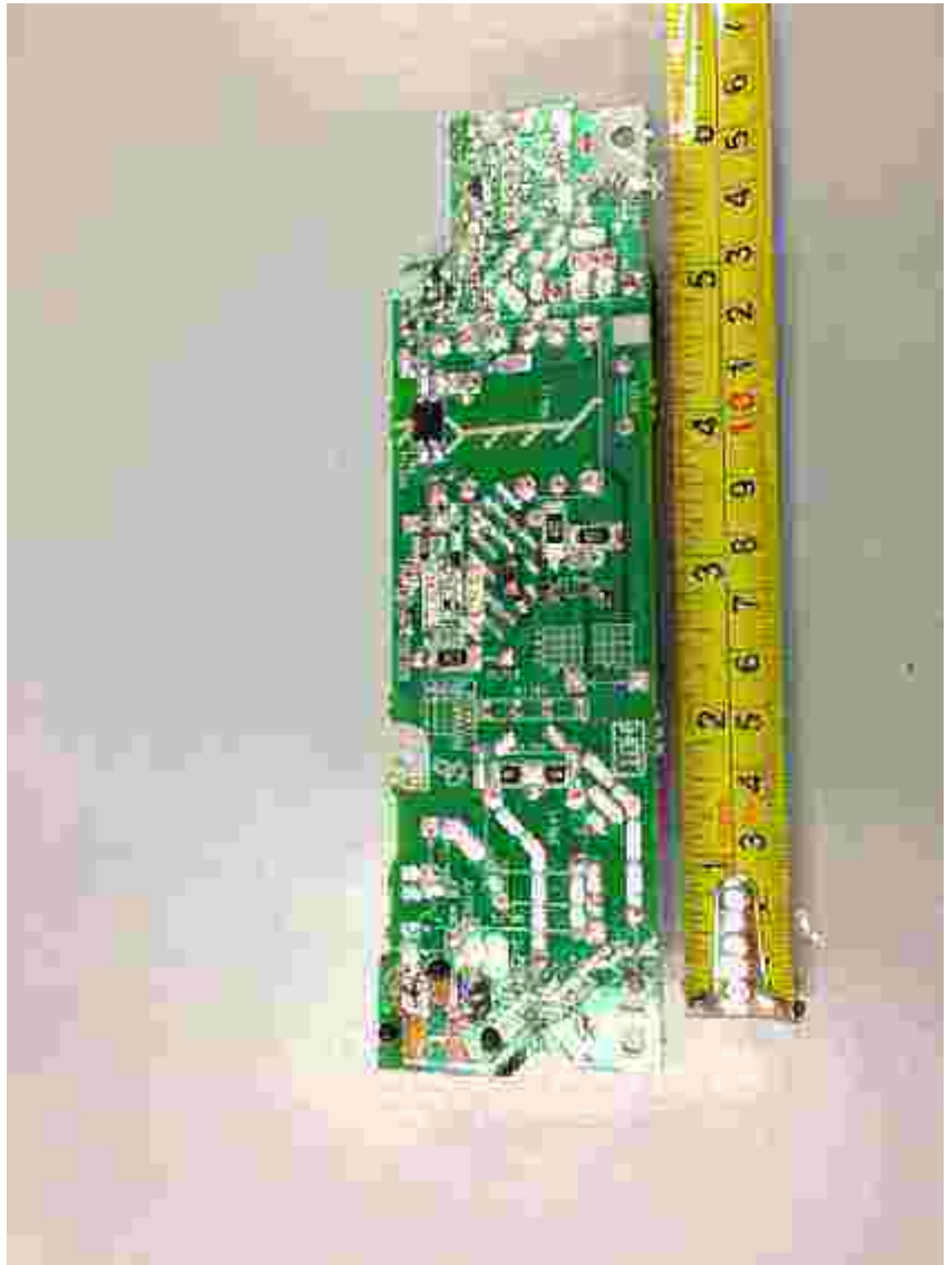
EUT PHOTOGRAPHS



Power Supply Board PCB Component Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



Power Supply Board PCB Trace Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



Front Panel LCD Board PCB Component Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



Front Panel LCD Board PCB Trace Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



IR Board PCB Component Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



IR Board PCB Trace Side

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

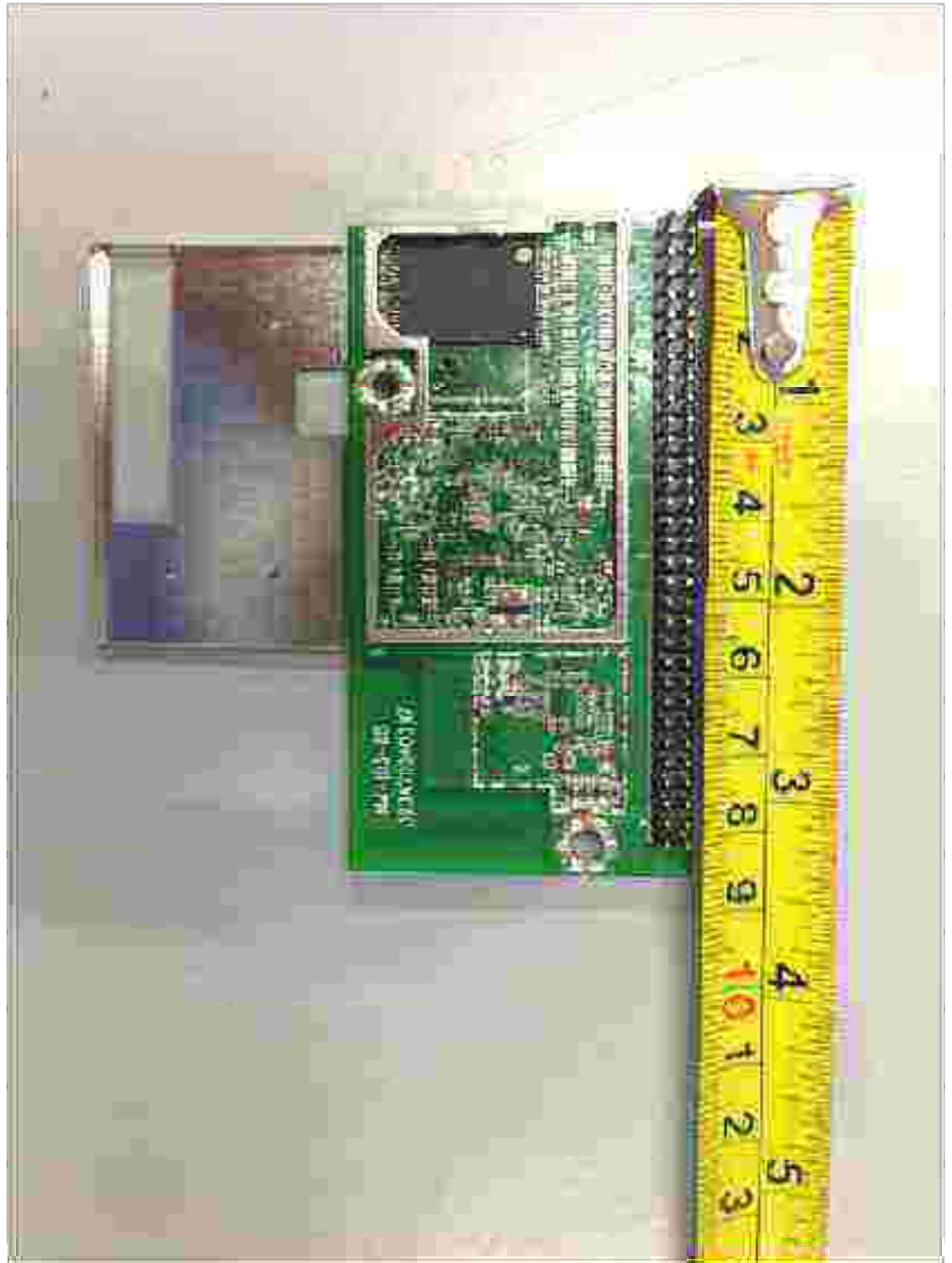
EUT PHOTOGRAPHS



Airplay RF Module Circuit with RF Shield Removed Component View

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

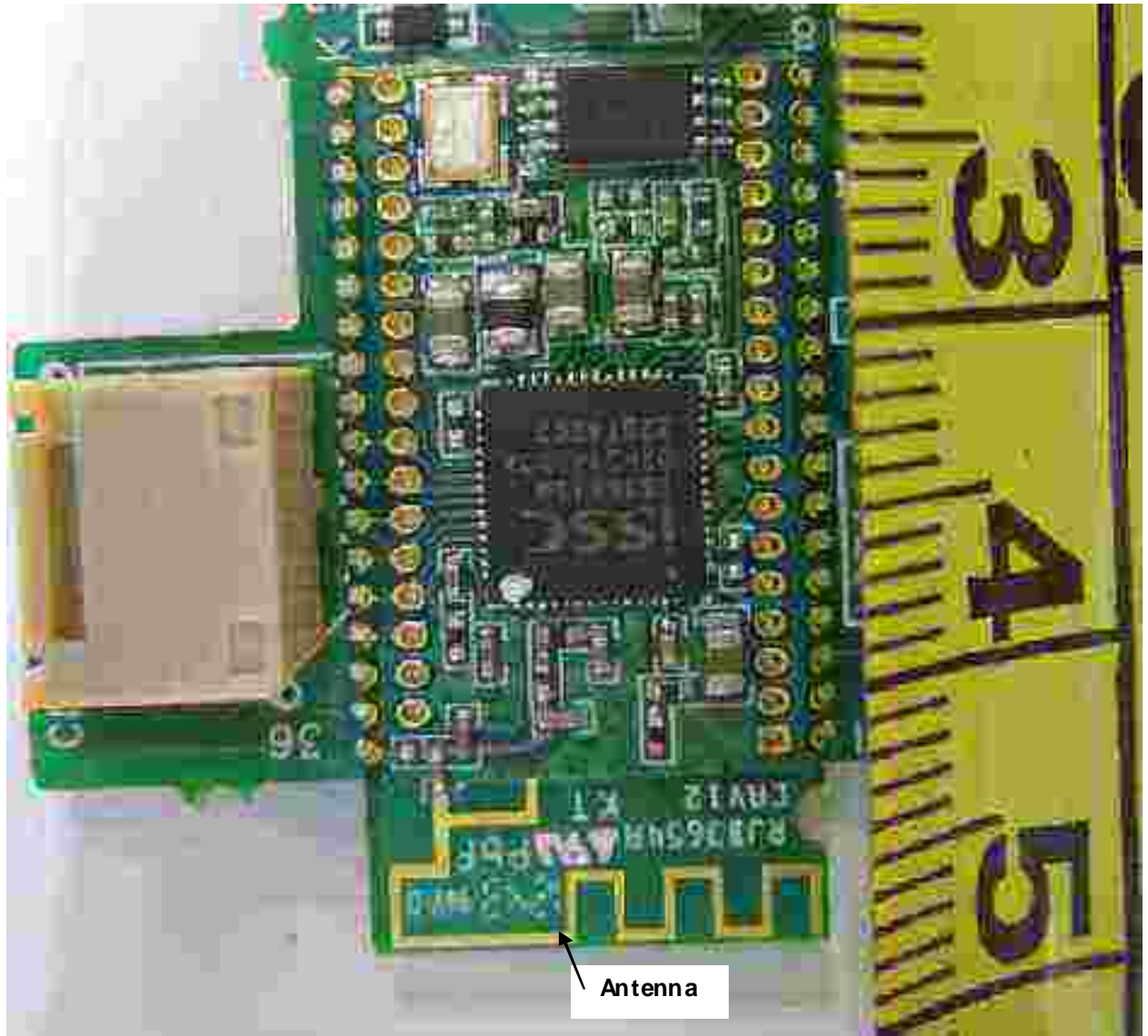
EUT PHOTOGRAPHS



Airplay RF Module Circuit with RF Shield Removed Trace View

ANNEX A EUT PHOTOGRAPHS / DIAGRAMS

EUT PHOTOGRAPHS



Bluetooth RF Module Circuit with RF Shield Removed



ANNEX B USER MANUAL TECHNICAL DESCRIPTION BLOCK & CIRCUIT DIAGRAMS





ANNEX C FCC LABEL & POSITION





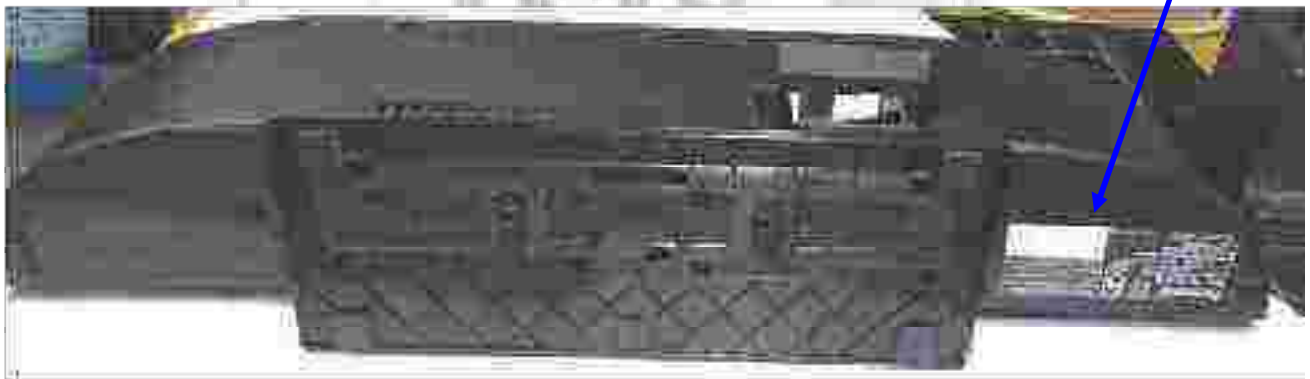
ANNEX C FCC LABEL & POSITION

Labelling requirements per Section 2.925 & 15.19

The label shown will be permanently affixed at a conspicuous location on the device and be readily visible to the user at the time of purchase.



Sample Label



Physical Location of FCC Label on EUT