

FCC Radio Test Report

FCC ID: KA2IR825G1

This report concerns (check one): ☒Original Grant ☐Class I Change ☐Class II Change

Project No. : 1607C226
Equipment : AC1200 Wi-Fi Gigabit Router
Model Name : DIR-825
Applicant : D-Link Corporation
Address : 17595 Mt. Herrmann, Fountain Valley, California
United States

Date of Receipt : Jul. 21, 2016
Date of Test : Jul. 21, 2016 ~ Aug. 23, 2016
Issued Date : Aug. 24, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1607C226	Original Issue.	Aug. 24, 2016

1. CERTIFICATION

Equipment : AC1200 Wi-Fi Gigabit Router
Brand Name : D-Link
Model Name : DIR-825
Applicant : D-Link Corporation
Manufacturer : D-Link Corporation
Address : 17595 Mt. Herrmann, Fountain Valley, California United States
Factory : 1. Taicang T&W Electronics Co., Ltd.
2. Shenzhen Gongjin Electronics Co., Ltd.
Address : 1. Jiangnan Road 89, Loudong Street , Taicang ,Jiangsu, 215412,P.R.China
2. No 2&3 Buildings, Mingwei Factory Area, Songgang Road West, No. A Building, 1#Songgang Road Songgang Sub-District, Shenzhen, Guangdong, 518105,P.R.China
Date of Test : Jul. 21, 2016 ~ Aug. 23, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1607C226) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Wi-Fi Gigabit Router	
Brand Name	D-Link	
Model Name	DIR-825	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 27.17dBm 802.11g: 28.39dBm 802.11n(20MHz): 29.04dBm 802.11n(40MHz): 29.17dBm
Power Source	DC voltage supplied from AC/DC adapter. Brand / Model: D-Link / MU18A2120150-A1	
Power Rating	I/P: 100-240V~ 50/60Hz 0.5A O/P: 12V --- 1.5A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Channel List:

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Dongguan City Xinsheng Electronics Co., Ltd	8000000008581341	Dipole	N/A	5
2	Dongguan City Xinsheng Electronics Co., Ltd	8000000008601341	Dipole	N/A	5

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=5.

4.

Operating Mode	1TX	2TX
TX Mode		
802.11b	V (ANT 1)	-
802.11g	V (ANT 1)	-
802.11n (20MHz)	-	V (ANT 1+ANT 2)
802.11n (40MHz)	-	V (ANT 1+ANT 2)

ANT 1 for 1TX was found to be the worst case and recorded

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 5	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

For Band Edge Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

6dB Spectrum Bandwidth	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Maximum Conducted Output Power	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Power Spectral Density	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

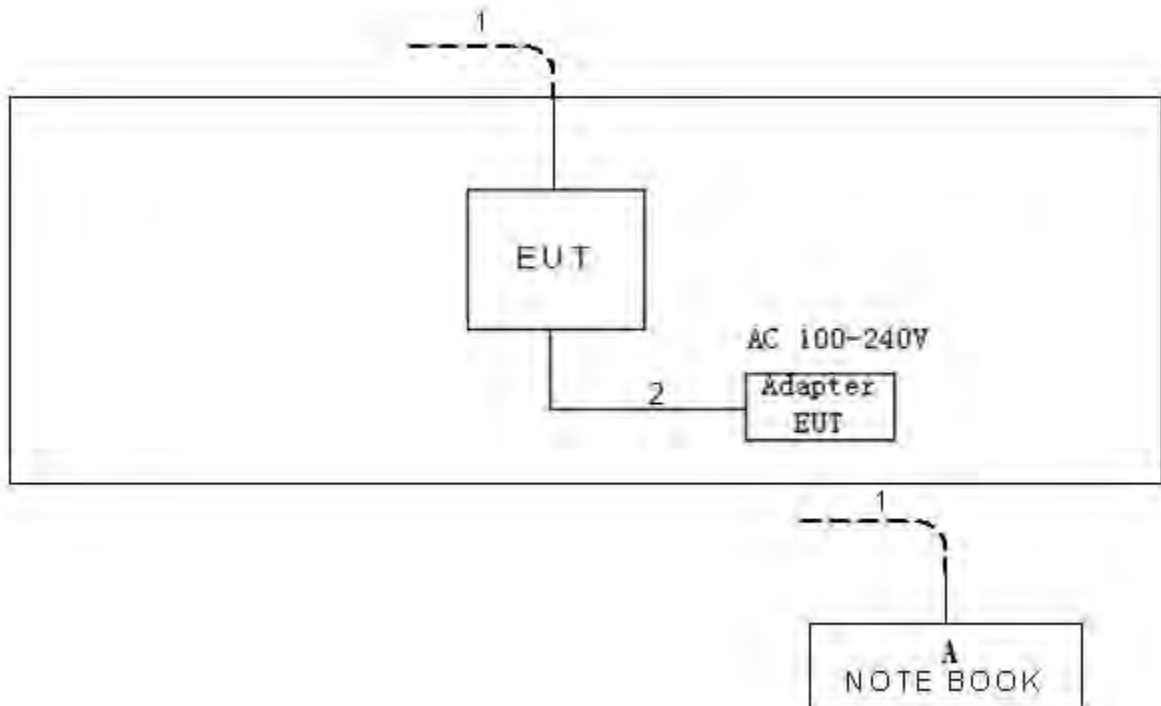
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	N/A		
Frequency (MHz)	2412	2437	2462
802.11b	52	59	54
802.11g	49	63	48
802.11n (20MHz)	44	47	43
Frequency	2422	2437	2452
802.11n (40MHz)	41	50	41

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	NOTEBOOK	Dell	DCSM 745	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 Cable
2	NO	NO	1.5m	Power Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

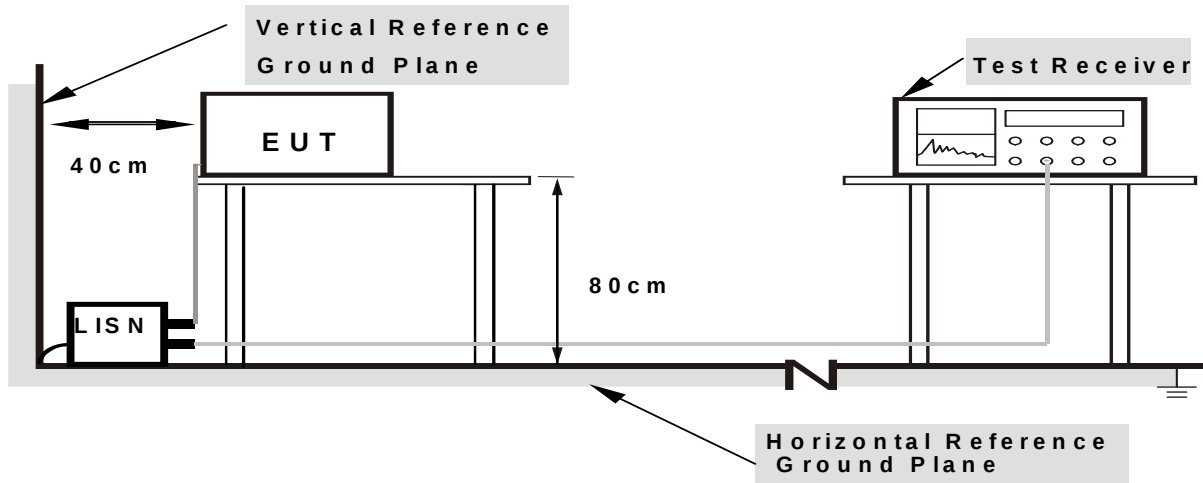
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

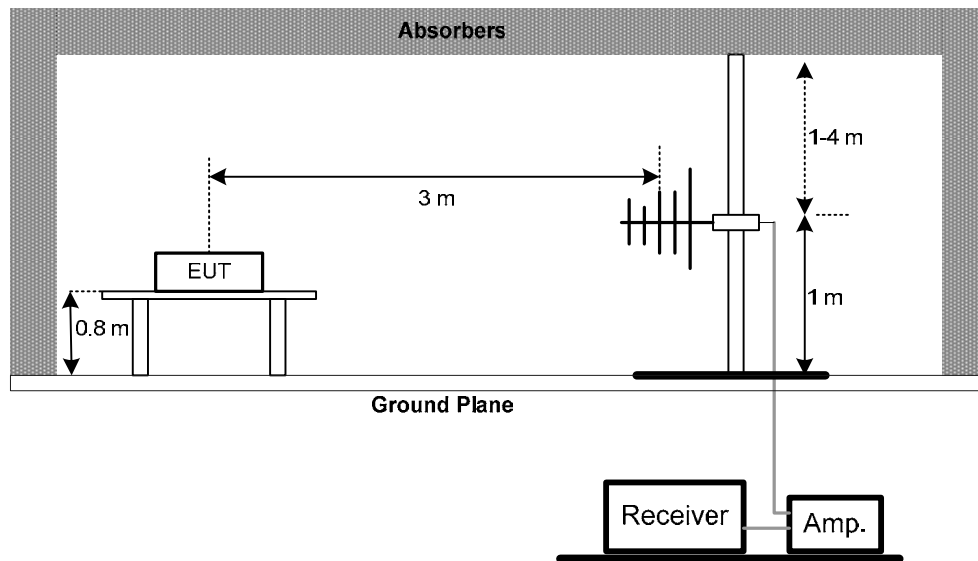
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

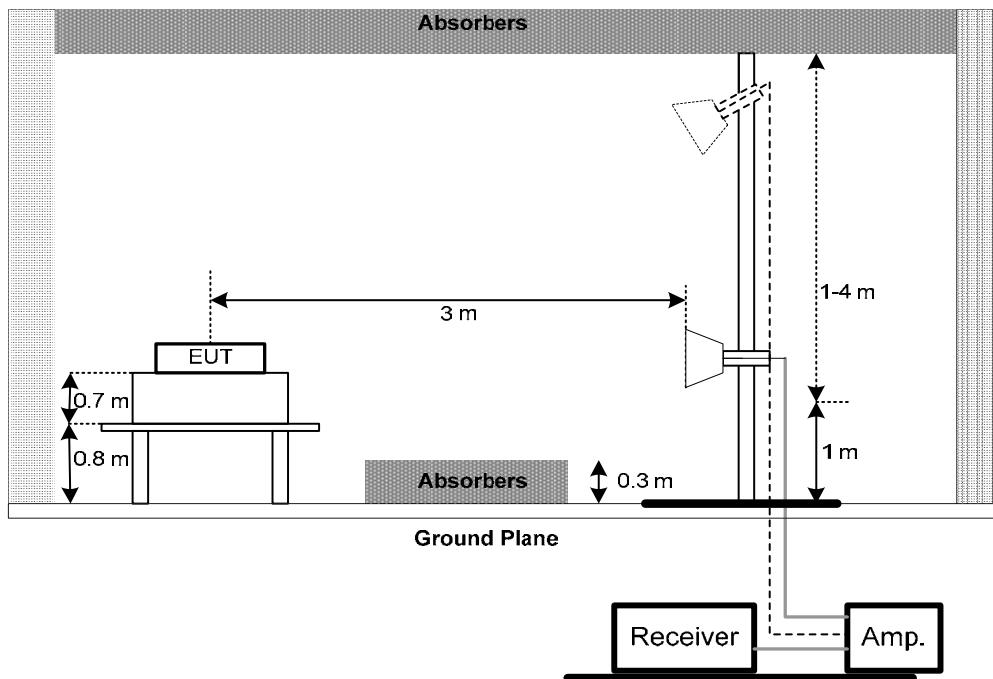
No deviation

4.2.4 TEST SETUP

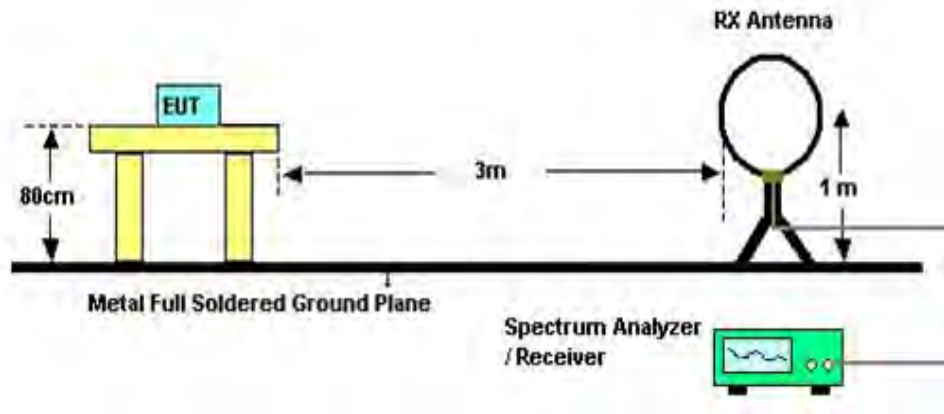
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r05 and FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 26, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz-26.5GHz)	C-68	Jun. 26, 2017
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Oct. 26, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Oct. 26, 2016

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

10. EUT TEST PHOTO

Conducted Measurement Photos



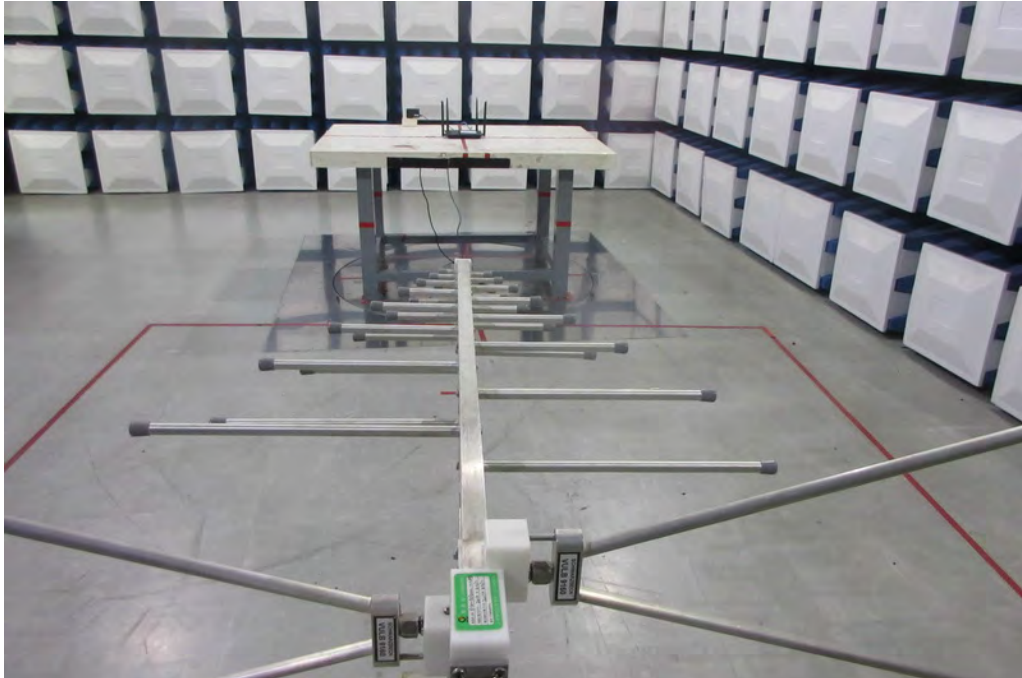
Radiated Measurement Photos

9KHz to 30MHz



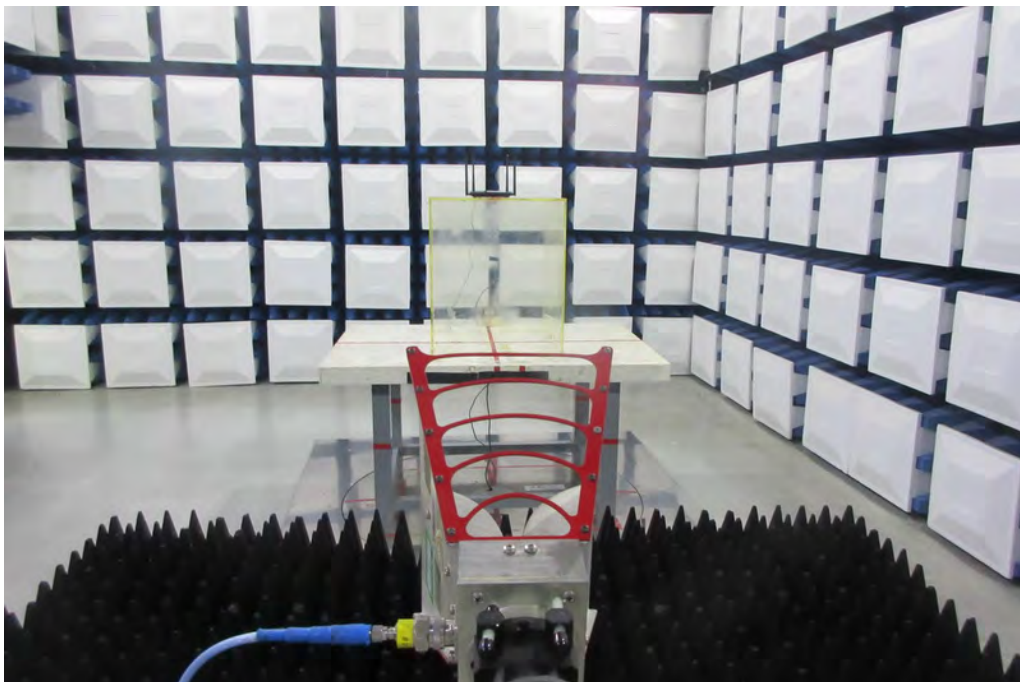
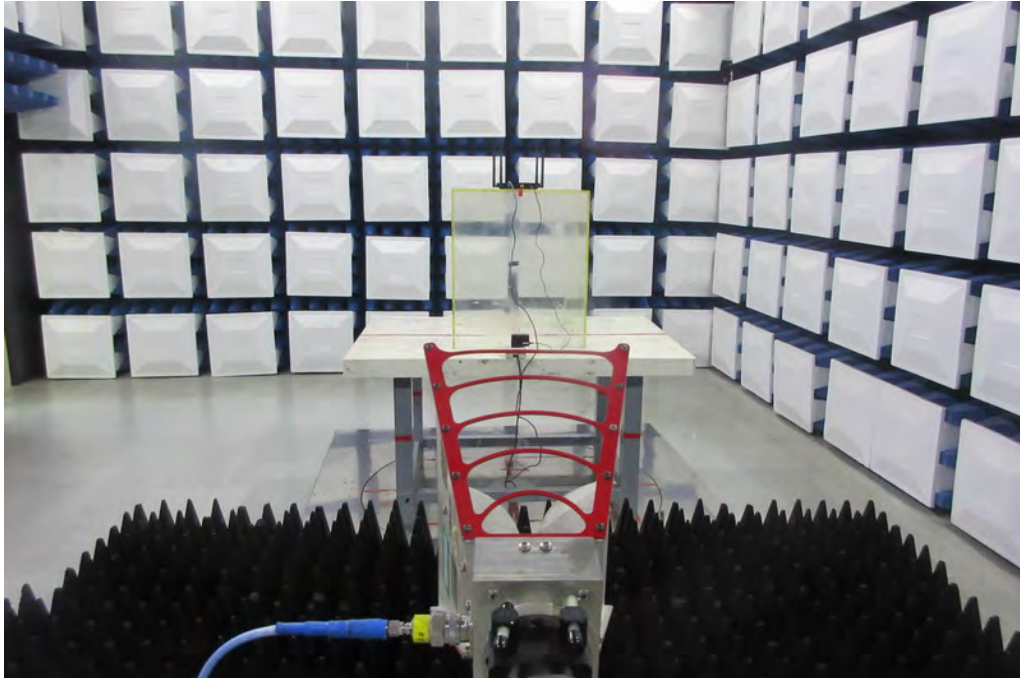
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

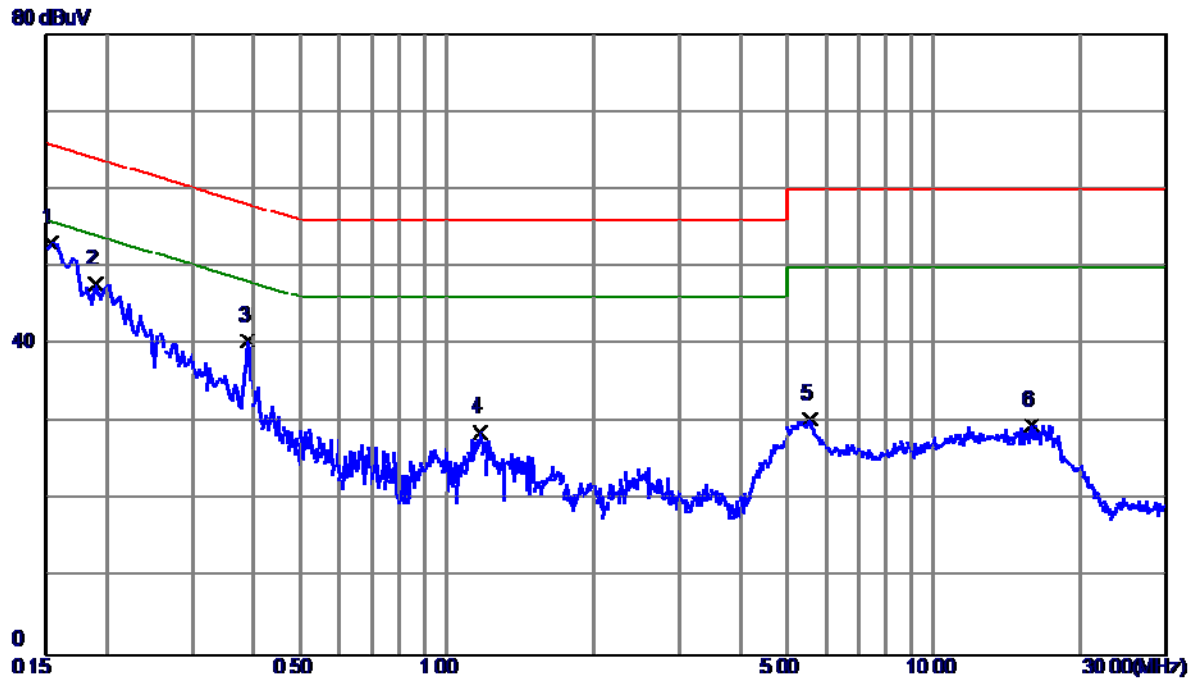
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX Mode

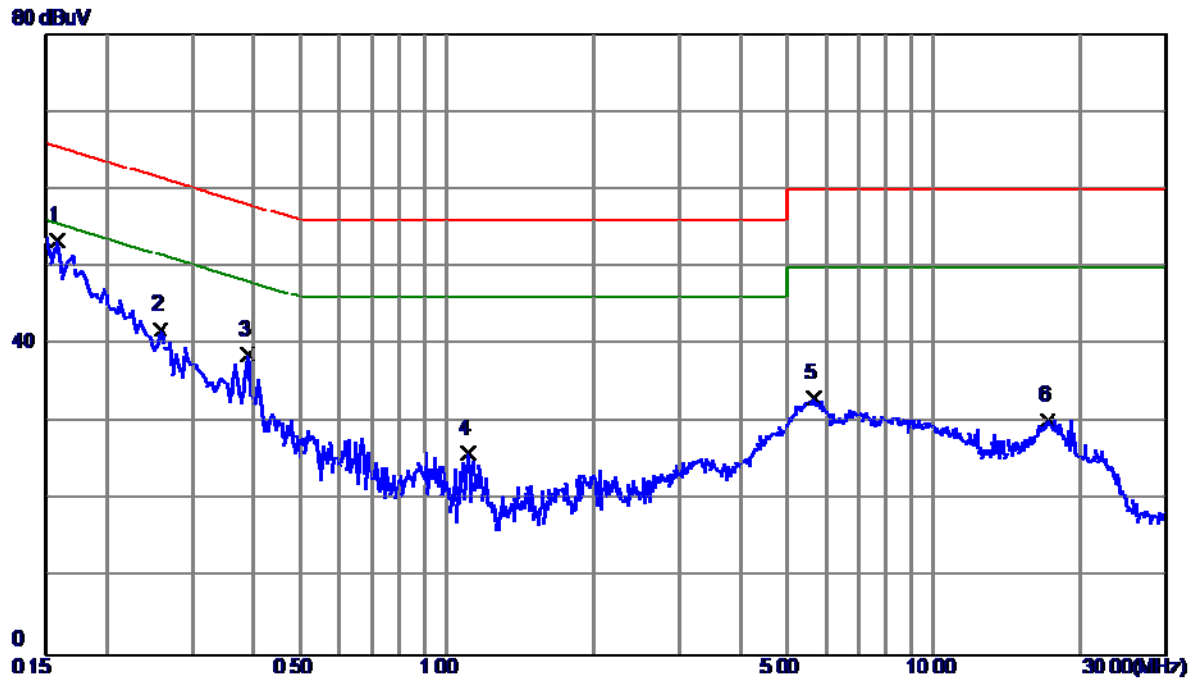
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1539	43.66	9.52	53.18	65.79	-12.61	Peak	
2	0.1900	38.38	9.53	47.91	64.04	-16.13	Peak	
3	0.3899	30.92	9.54	40.46	58.07	-17.61	Peak	
4	1.1700	18.96	9.76	28.72	56.00	-27.28	Peak	
5	5.5700	20.36	10.04	30.40	60.00	-29.60	Peak	
6	15.9220	19.26	10.37	29.63	60.00	-30.37	Peak	

Test Mode : TX Mode

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1580	43.89	9.48	53.37	65.57	-12.20	Peak	
2	0.2580	32.42	9.53	41.95	61.50	-19.55	Peak	
3	0.3899	29.33	9.46	38.79	58.07	-19.28	Peak	
4	1.1060	16.34	9.66	26.00	56.00	-30.00	Peak	
5	5.6700	23.11	9.98	33.09	60.00	-26.91	Peak	
6	17.1860	19.88	10.42	30.30	60.00	-29.70	Peak	

ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX B MODE CHANNEL 01
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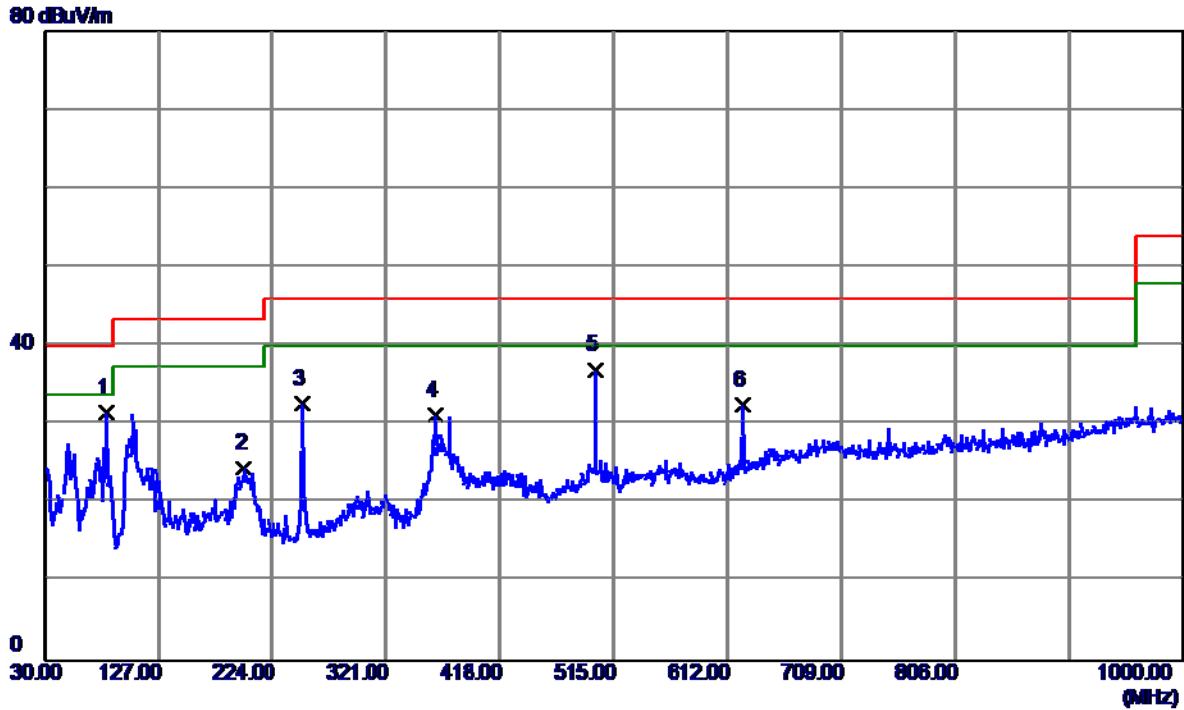
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0091	0°	13.41	24.9903	38.4003	128.4234	-90.0231	AVG
0.0091	0°	14.28	24.9903	39.2703	148.4234	-109.1531	PEAK
0.0284	0°	6.73	23.7680	30.4980	118.5379	-88.0399	AVG
0.0284	0°	8.12	23.7680	31.8880	138.5379	-106.6499	PEAK
0.0368	0°	3.17	23.2360	26.4060	116.2873	-89.8813	AVG
0.0368	0°	5.58	23.2360	28.8160	136.2873	-107.4713	PEAK
0.0583	0°	1.16	22.2340	23.3940	112.2909	-88.8969	AVG
0.0583	0°	2.53	22.2340	24.7640	132.2909	-107.5269	PEAK
0.5095	0°	19.36	19.8304	39.1904	73.4613	-34.2709	QP
1.9523	0°	23.71	19.5048	43.2148	69.5400	-26.3252	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0124	90°	13.16	24.3000	37.4600	125.7358	-88.2758	AVG
0.0124	90°	14.89	24.3000	39.1900	145.7358	-106.5458	PEAK
0.0268	90°	7.28	23.8693	31.1493	119.0415	-87.8922	AVG
0.0268	90°	8.94	23.8693	32.8093	139.0415	-106.2322	PEAK
0.0434	90°	5.23	22.8180	28.0480	114.8544	-86.8064	AVG
0.0434	90°	6.19	22.8180	29.0080	134.8544	-105.8464	PEAK
0.0583	90°	1.54	22.2340	23.7740	112.2909	-88.5169	AVG
0.0583	90°	2.86	22.2340	25.0940	132.2909	-107.1969	PEAK
0.6217	90°	22.17	20.1894	42.3594	71.7326	-29.3732	QP
2.0547	90°	24.56	19.4672	44.0272	69.5400	-25.5128	QP

ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX B MODE CHANNEL 01

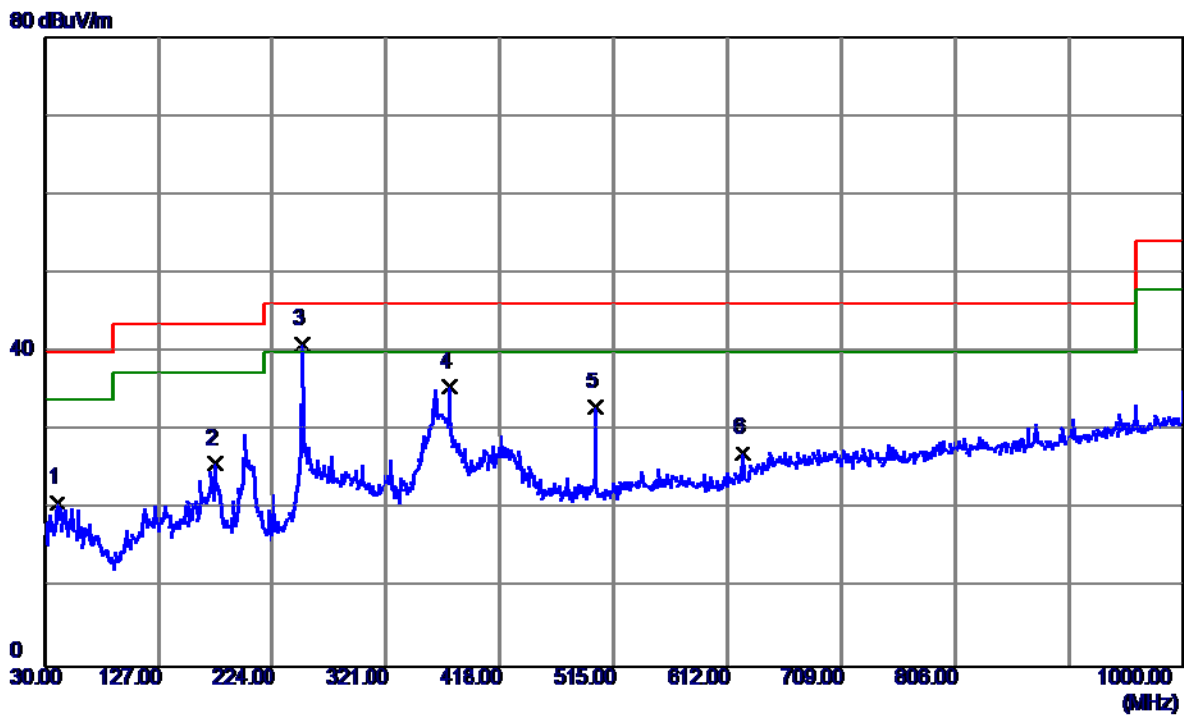
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	82.3800	48.06	-16.51	31.55	40.00	-8.45	Peak	
2	199.7500	38.18	-13.63	24.55	43.50	-18.95	Peak	
3	250.1900	46.01	-13.33	32.68	46.00	-13.32	Peak	
4	362.7100	41.01	-9.86	31.15	46.00	-14.85	Peak	
5	499.9650	44.57	-7.65	36.92	46.00	-9.08	Peak	
6	625.0949	35.67	-3.25	32.42	46.00	-13.58	Peak	

Test Mode: TX B MODE CHANNEL 01

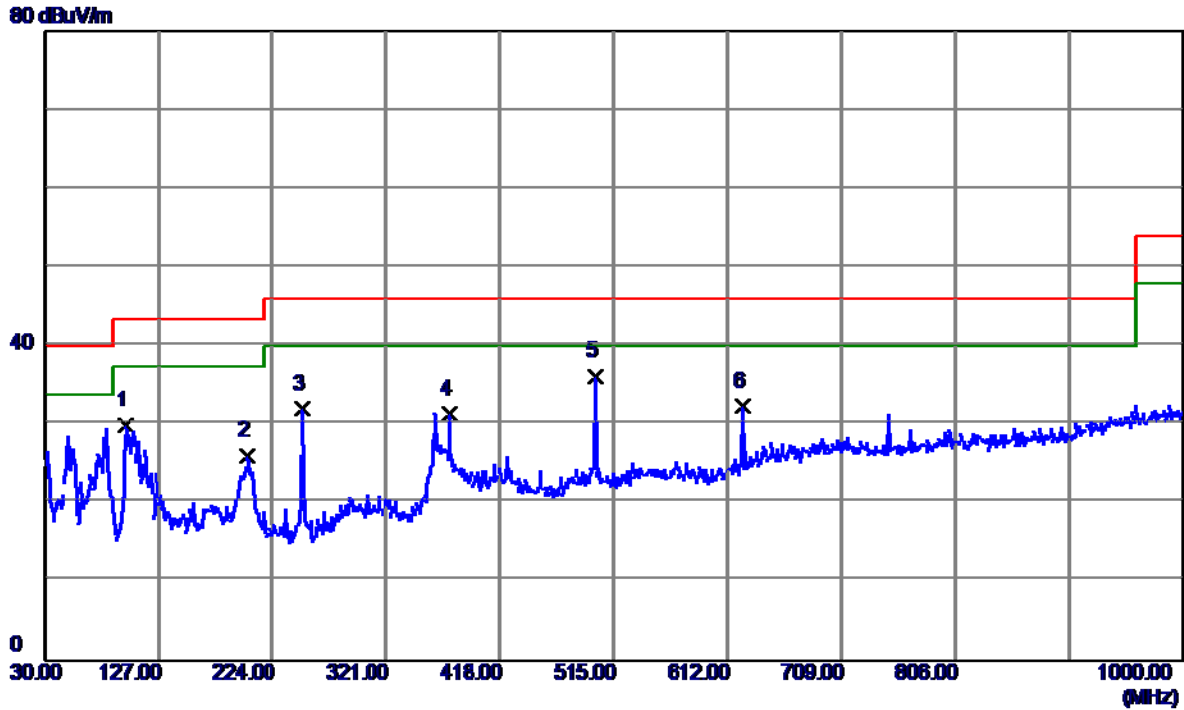
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	40.6699	33.22	-12.38	20.84	40.00	-19.16	Peak	
2	175.0150	37.24	-11.43	25.81	43.50	-17.69	Peak	
3 *	250.1900	54.35	-13.33	41.02	46.00	-4.98	Peak	
4	374.8350	44.47	-9.00	35.47	46.00	-10.53	Peak	
5	499.9650	40.64	-7.65	32.99	46.00	-13.01	Peak	
6	625.0949	30.37	-3.25	27.12	46.00	-18.88	Peak	

Test Mode: TX B MODE CHANNEL 06

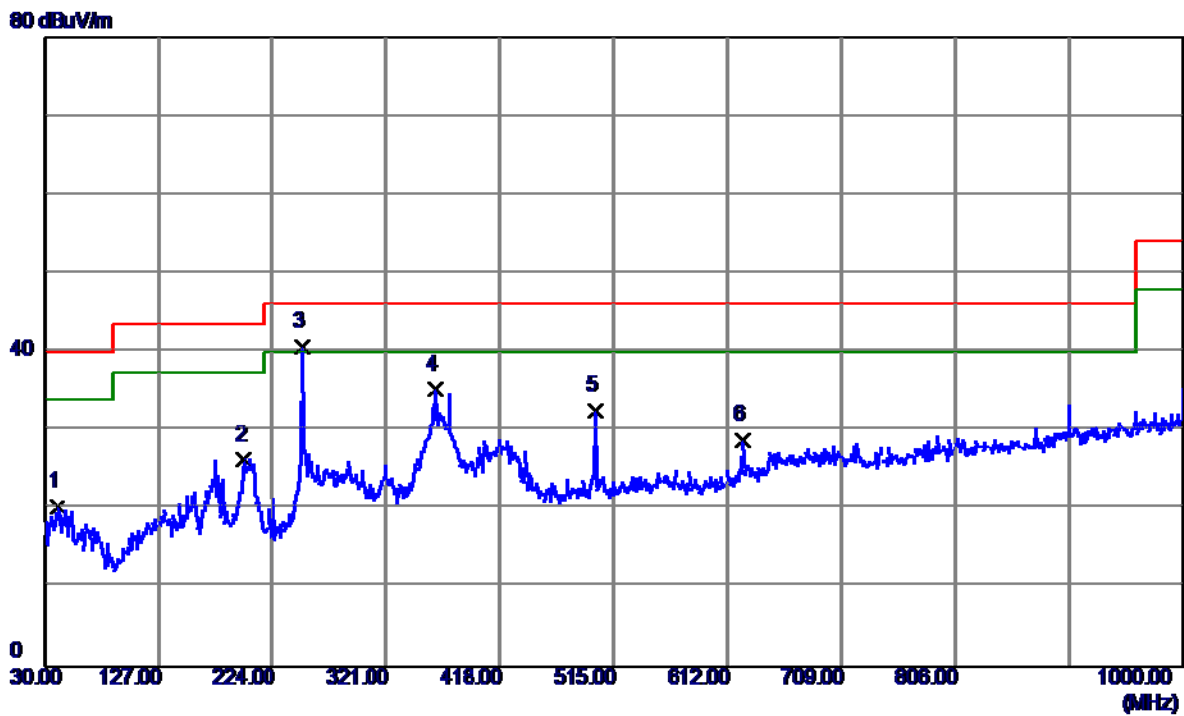
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	99.3550	44.74	-14.75	29.99	43.50	-13.51	Peak	
2	202.6600	39.82	-13.76	26.06	43.50	-17.44	Peak	
3	250.1900	45.34	-13.33	32.01	46.00	-13.99	Peak	
4	374.8350	40.40	-9.00	31.40	46.00	-14.60	Peak	
5 *	499.9650	43.82	-7.65	36.17	46.00	-9.83	Peak	
6	625.0949	35.57	-3.25	32.32	46.00	-13.68	Peak	

Test Mode: TX B MODE CHANNEL 06

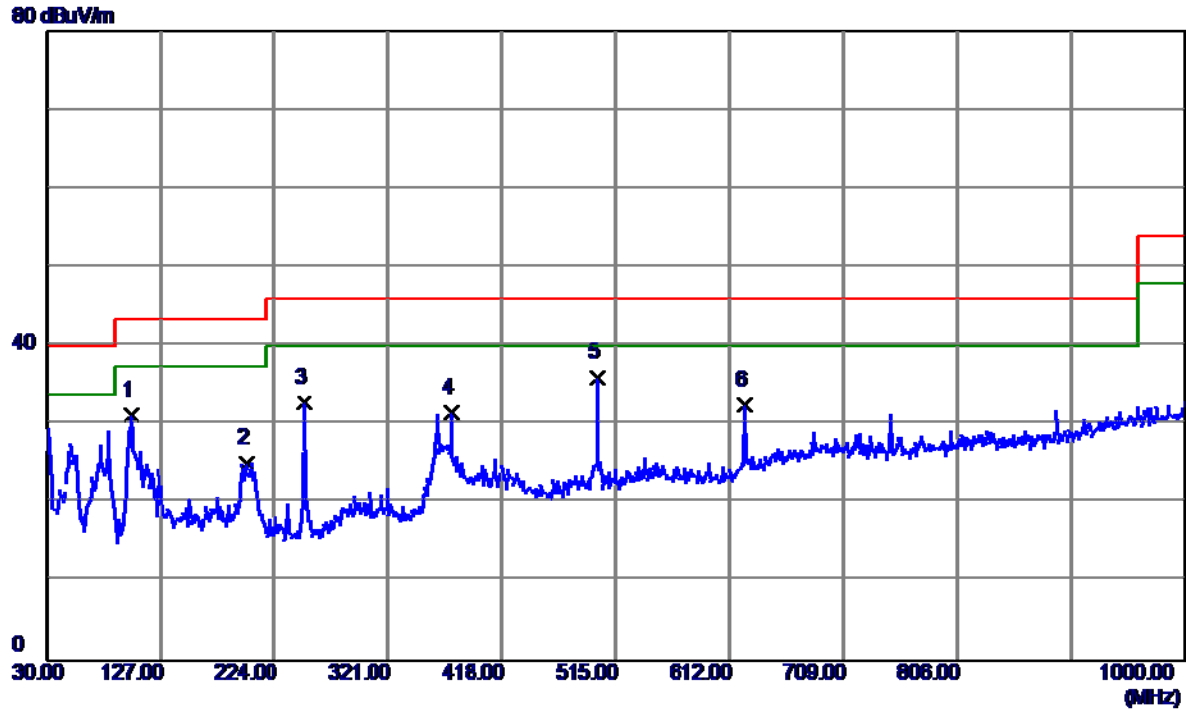
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	41.1550	32.58	-12.28	20.30	40.00	-19.70	Peak	
2	199.7500	39.85	-13.63	26.22	43.50	-17.28	Peak	
3 *	250.1900	53.95	-13.33	40.62	46.00	-5.38	Peak	
4	362.7100	45.03	-9.86	35.17	46.00	-10.83	Peak	
5	499.9650	40.18	-7.65	32.53	46.00	-13.47	Peak	
6	625.0949	32.12	-3.25	28.87	46.00	-17.13	Peak	

Test Mode: TX B MODE CHANNEL 11

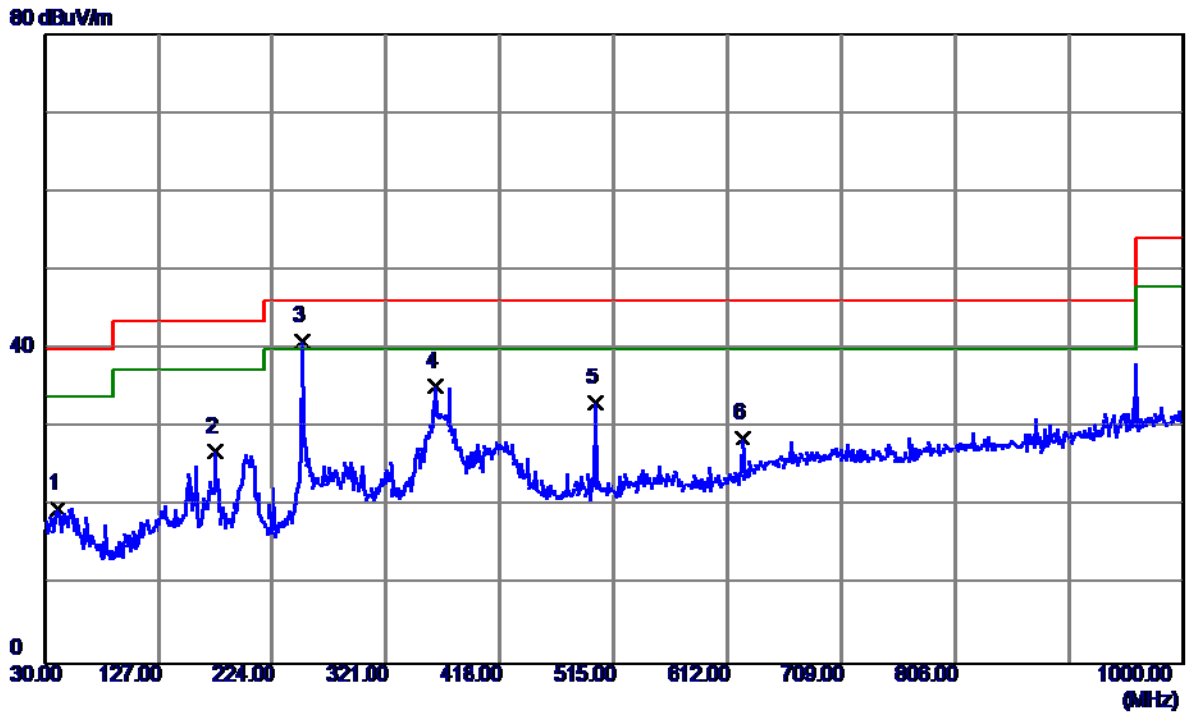
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	102.2650	45.54	-14.38	31.16	43.50	-12.34	Peak	
2	200.2350	38.74	-13.65	25.09	43.50	-18.41	Peak	
3	250.1900	46.15	-13.33	32.82	46.00	-13.18	Peak	
4	374.8350	40.54	-9.00	31.54	46.00	-14.46	Peak	
5 *	499.9650	43.66	-7.65	36.01	46.00	-9.99	Peak	
6	625.0949	35.69	-3.25	32.44	46.00	-13.56	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

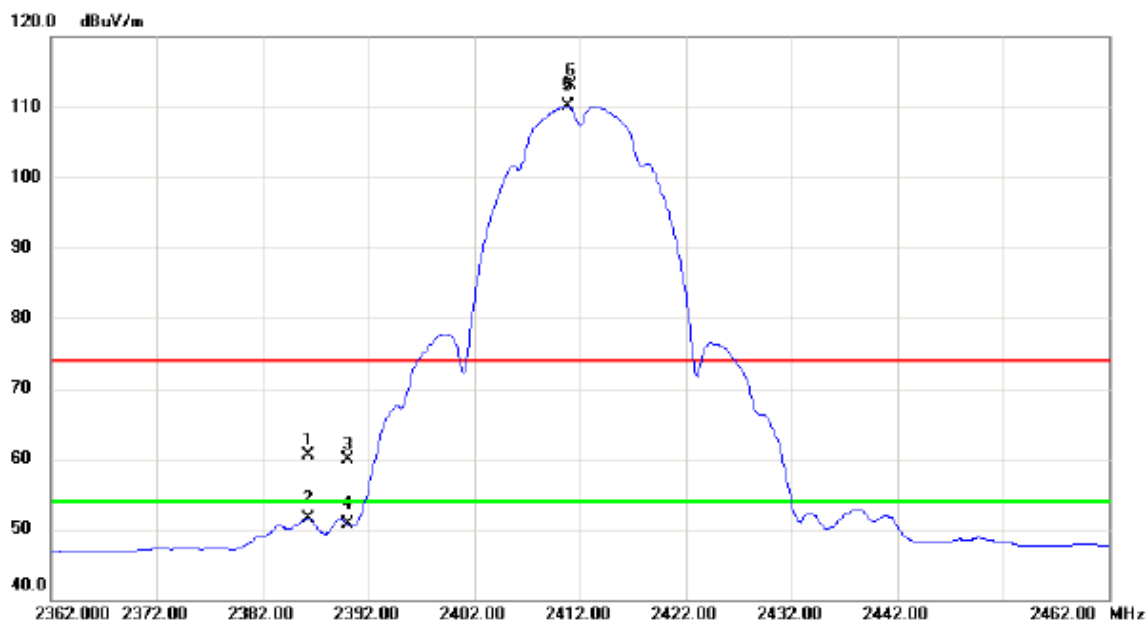


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	40.6699	32.10	-12.38	19.72	40.00	-20.28	Peak	
2	175.0150	38.34	-11.43	26.91	43.50	-16.59	Peak	
3 *	250.1900	54.24	-13.33	40.91	46.00	-5.09	Peak	
4	362.7100	45.09	-9.86	35.23	46.00	-10.77	Peak	
5	499.9650	40.82	-7.65	33.17	46.00	-12.83	Peak	
6	625.0949	31.89	-3.25	28.64	46.00	-17.36	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

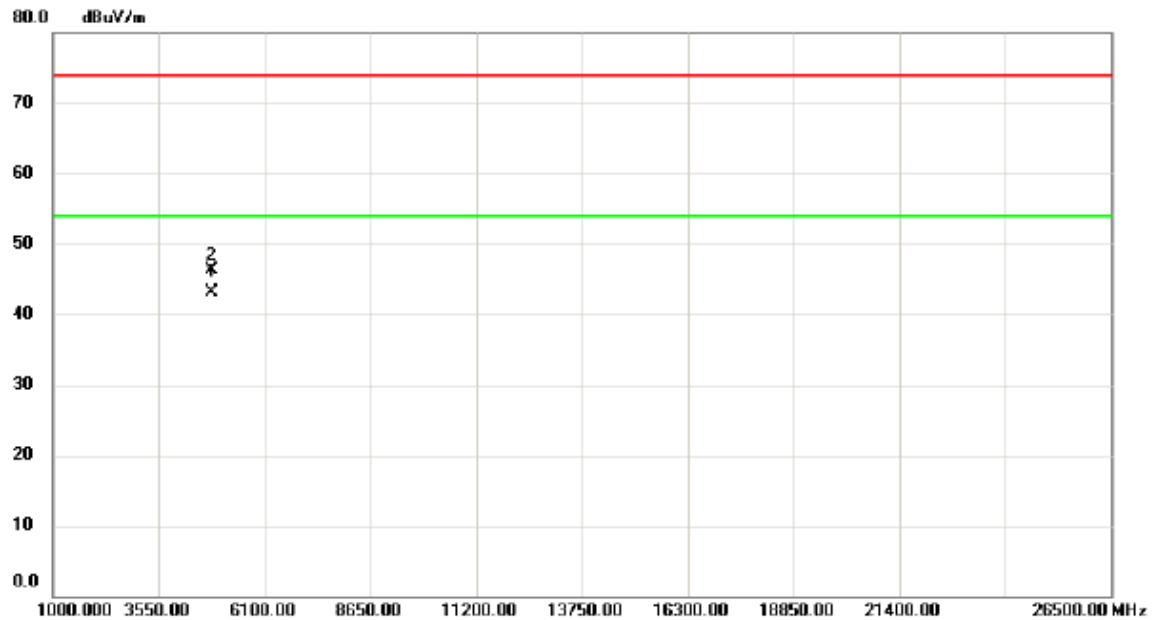
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2386.300	27.54	33.00	60.54	74.00	-13.46	peak	
2		2386.300	18.55	33.00	51.55	54.00	-2.45	AVG	
3		2390.000	26.85	33.01	59.86	74.00	-14.14	peak	
4		2390.000	17.67	33.01	50.68	54.00	-3.32	AVG	
5	*	2410.900	77.11	33.09	110.20	54.00	56.20	AVG	No Limit
6	X	2411.100	80.02	33.10	113.12	74.00	39.12	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

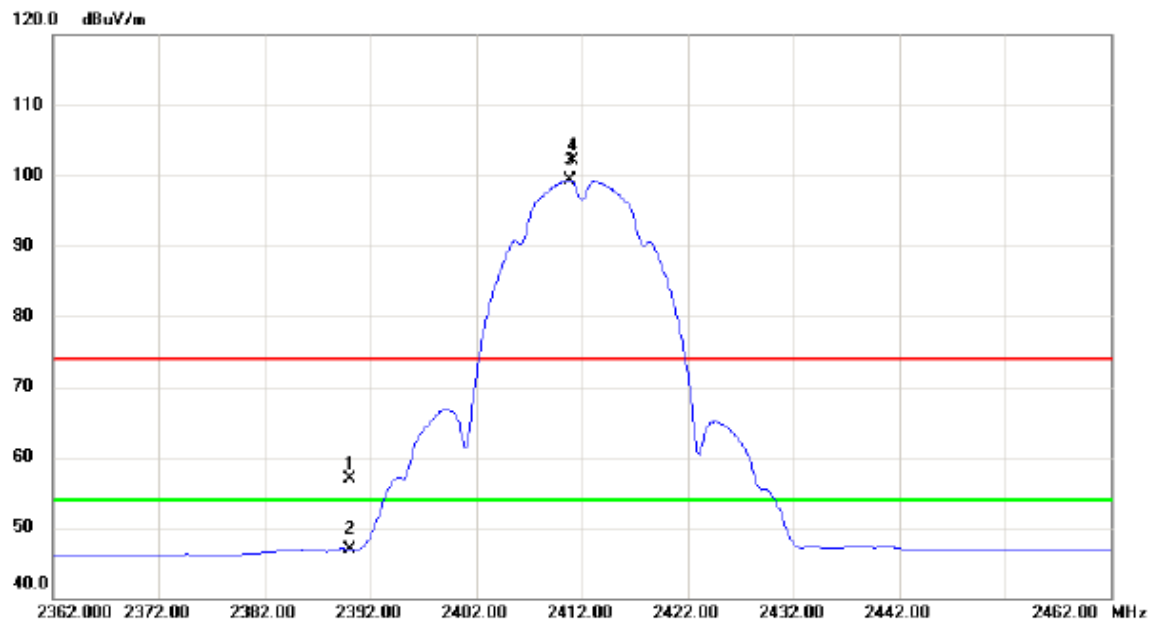
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4823.910	38.25	4.85	43.10	54.00	-10.90	AVG	
2		4823.930	41.51	4.85	46.36	74.00	-27.64	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

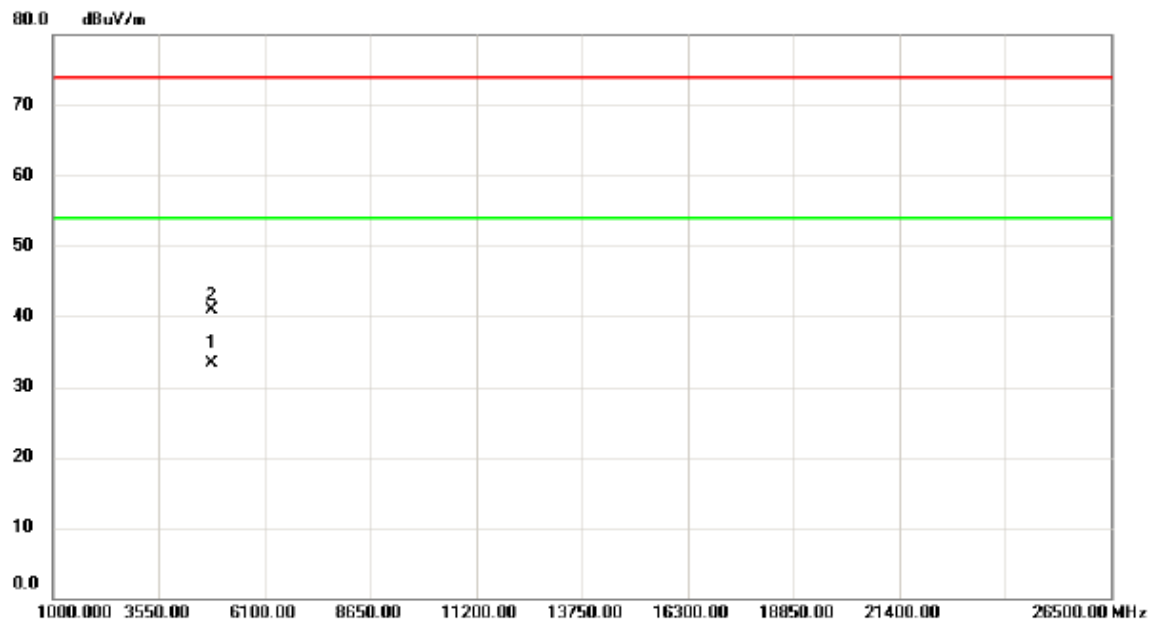
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.93	33.01	56.94	74.00	-17.06	peak	
2		2390.000	13.89	33.01	46.90	54.00	-7.10	AVG	
3	*	2410.800	66.30	33.09	99.39	54.00	45.39	AVG	No Limit
4	X	2411.100	69.10	33.10	102.20	74.00	28.20	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

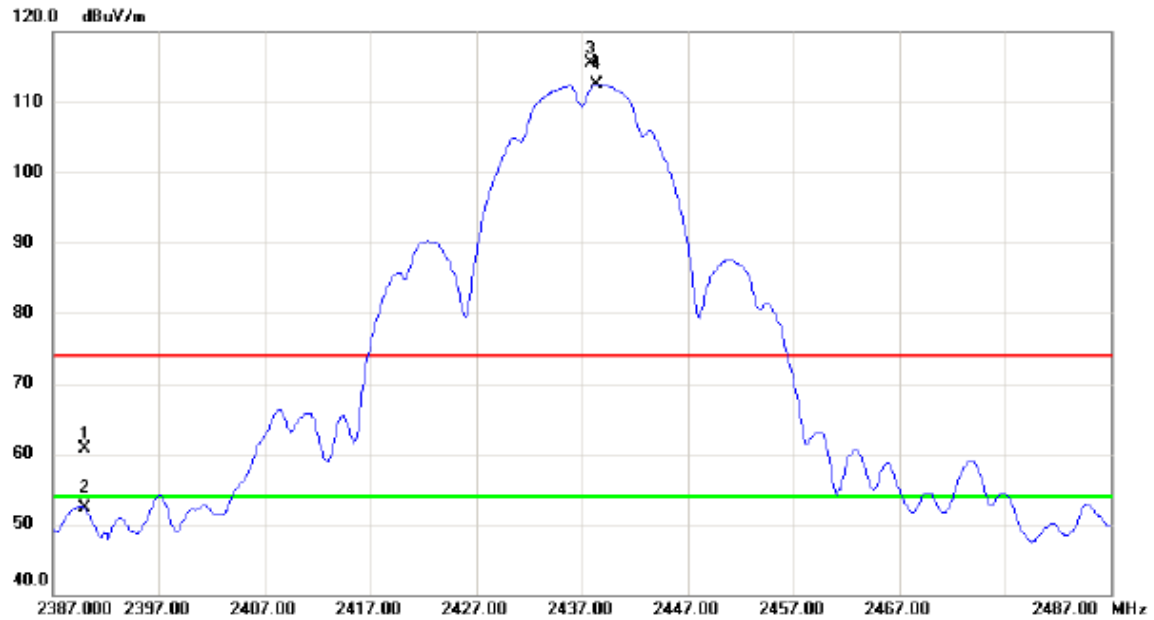
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4823.910	28.54	4.85	33.39	54.00	-20.61	AVG	
2		4823.970	36.00	4.85	40.85	74.00	-33.15	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

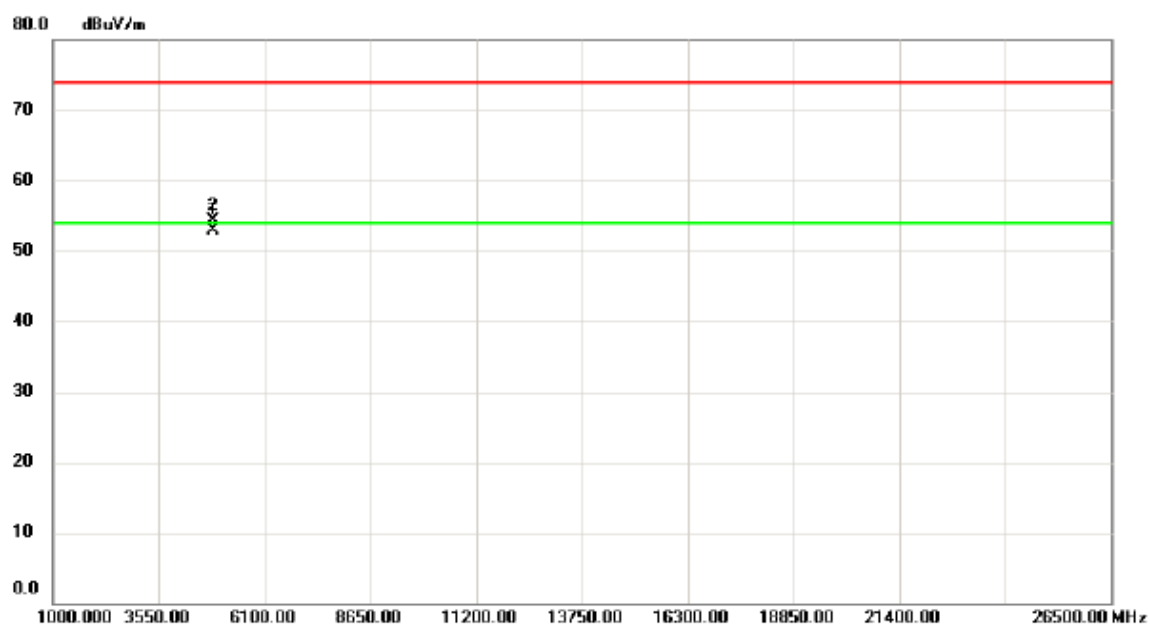
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	27.78	33.01	60.79	74.00	-13.21	peak	
2		2390.000	19.24	33.01	52.25	54.00	-1.75	AVG	
3	X	2437.900	82.26	33.21	115.47	74.00	41.47	peak	No Limit
4	*	2438.400	79.30	33.21	112.51	54.00	58.51	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

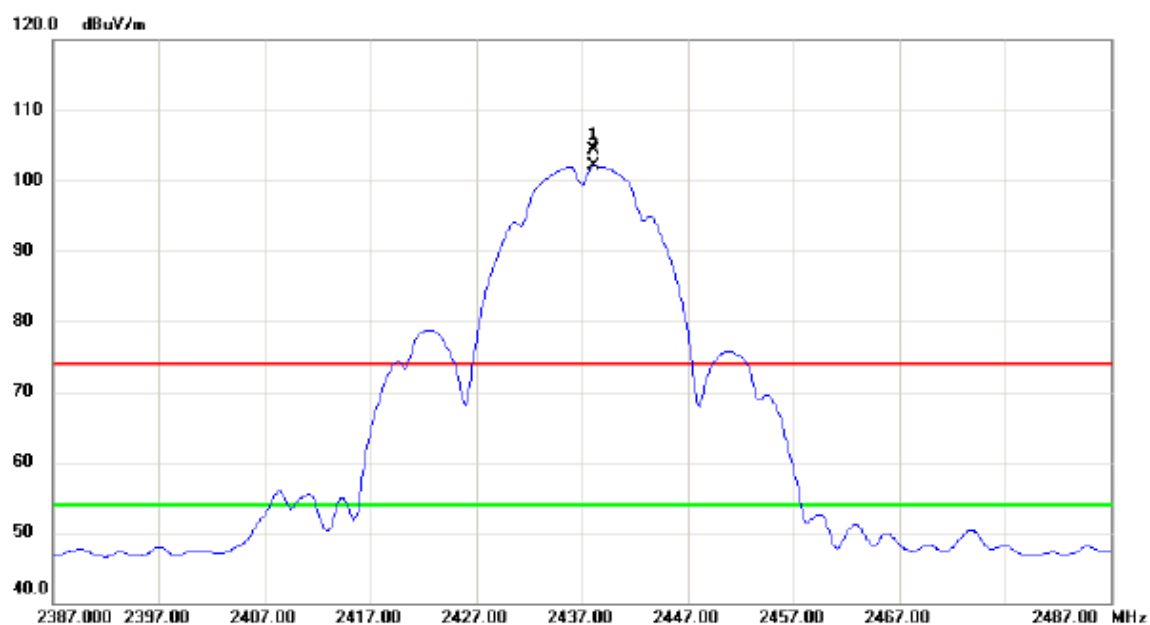
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4873.910	47.86	5.06	52.92	54.00	-1.08	AVG	
2		4873.920	49.21	5.06	54.27	74.00	-19.73	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

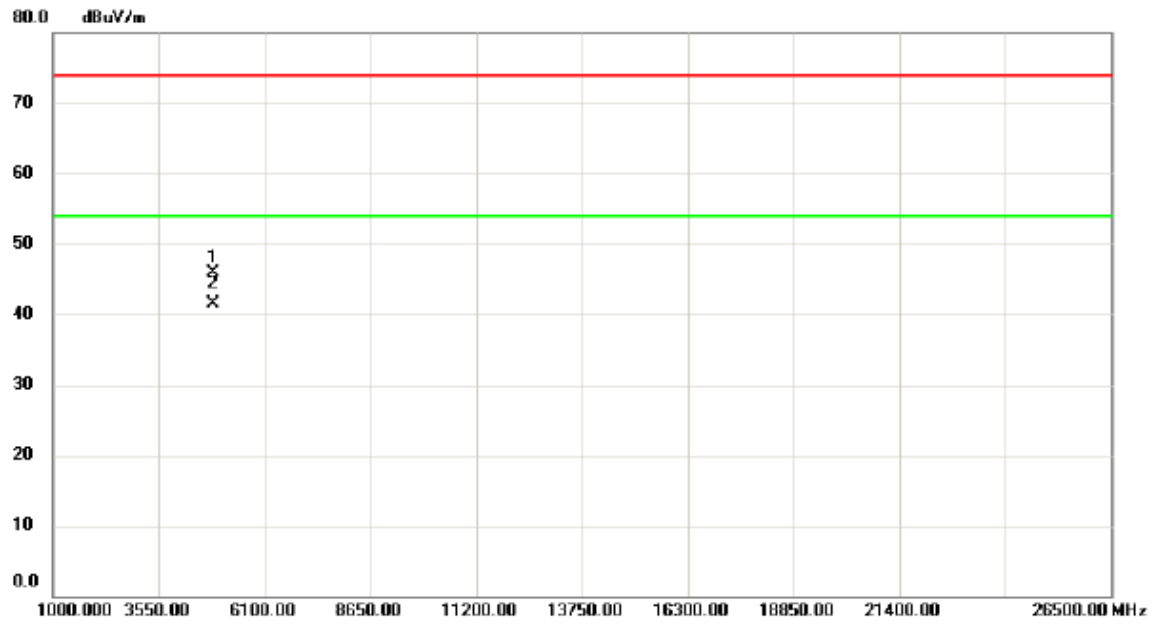
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2438.200	71.04	33.21	104.25	74.00	30.25	peak	No Limit
2	*	2438.200	68.93	33.21	102.14	54.00	48.14	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

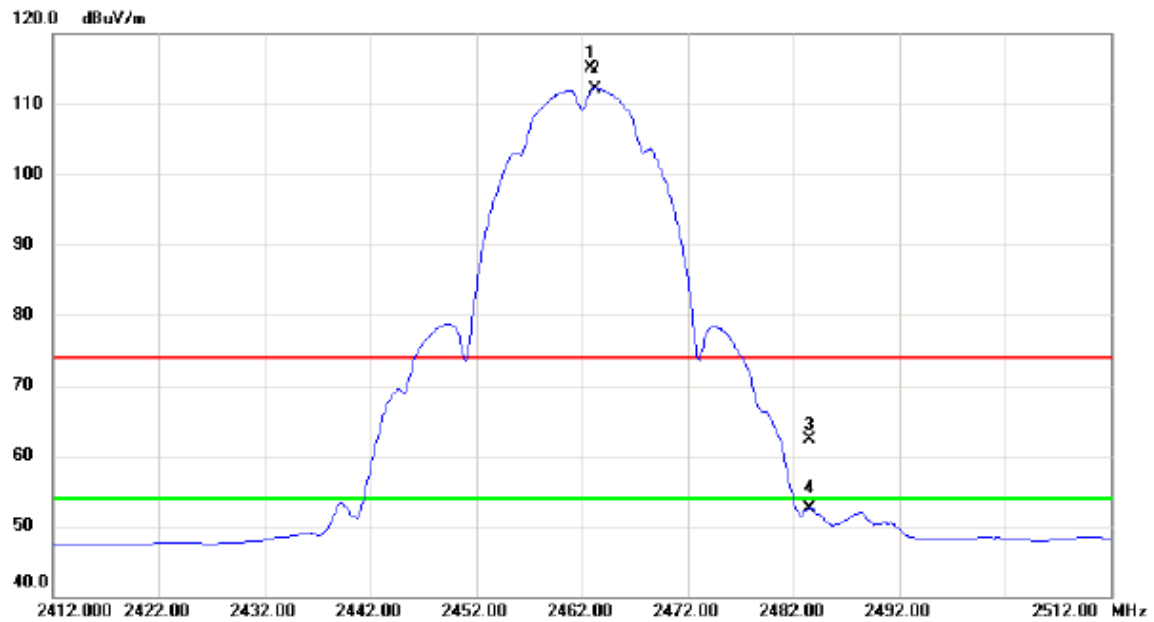
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.770	40.87	5.06	45.93	74.00	-28.07	peak	
2	*	4873.920	36.43	5.06	41.49	54.00	-12.51	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

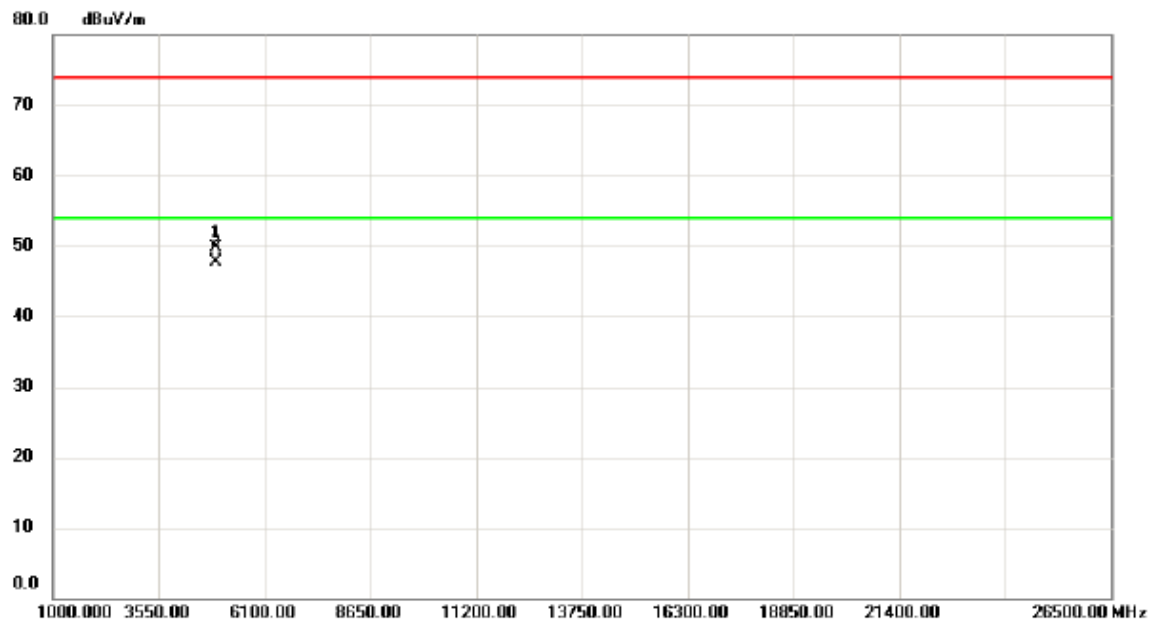
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.900	81.82	33.31	115.13	74.00	41.13	peak	No Limit
2	*	2463.300	78.89	33.31	112.20	54.00	58.20	AVG	No Limit
3		2483.500	28.88	33.40	62.28	74.00	-11.72	peak	
4		2483.500	19.05	33.40	52.45	54.00	-1.55	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

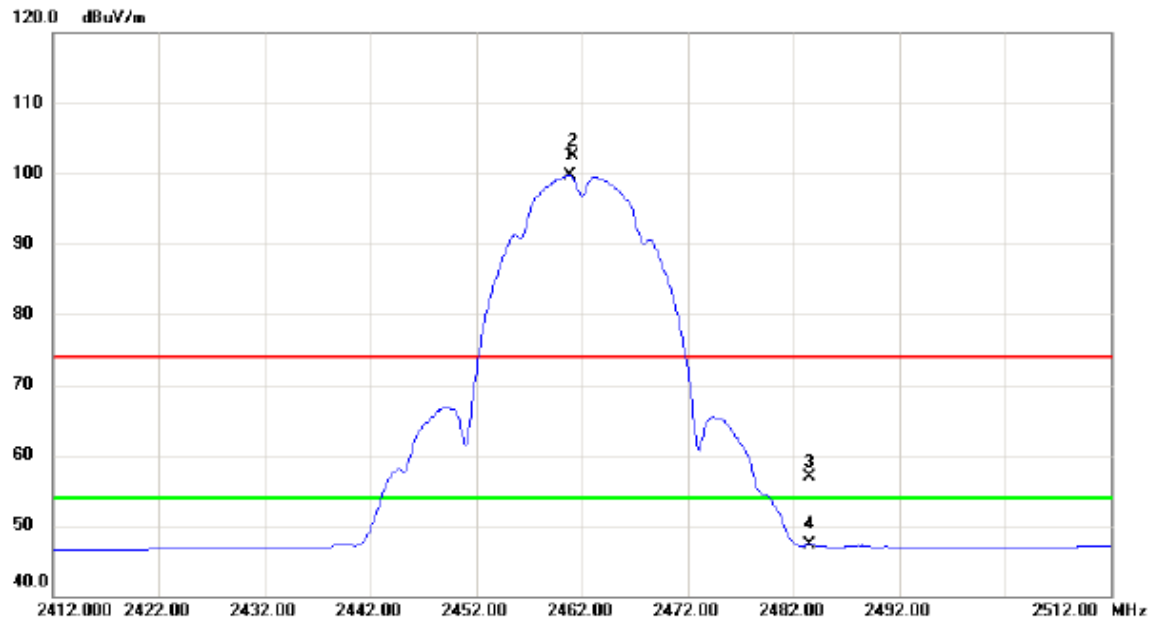
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.850	44.51	5.27	49.78	74.00	-24.22	peak	
2	*	4923.920	42.44	5.27	47.71	54.00	-6.29	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

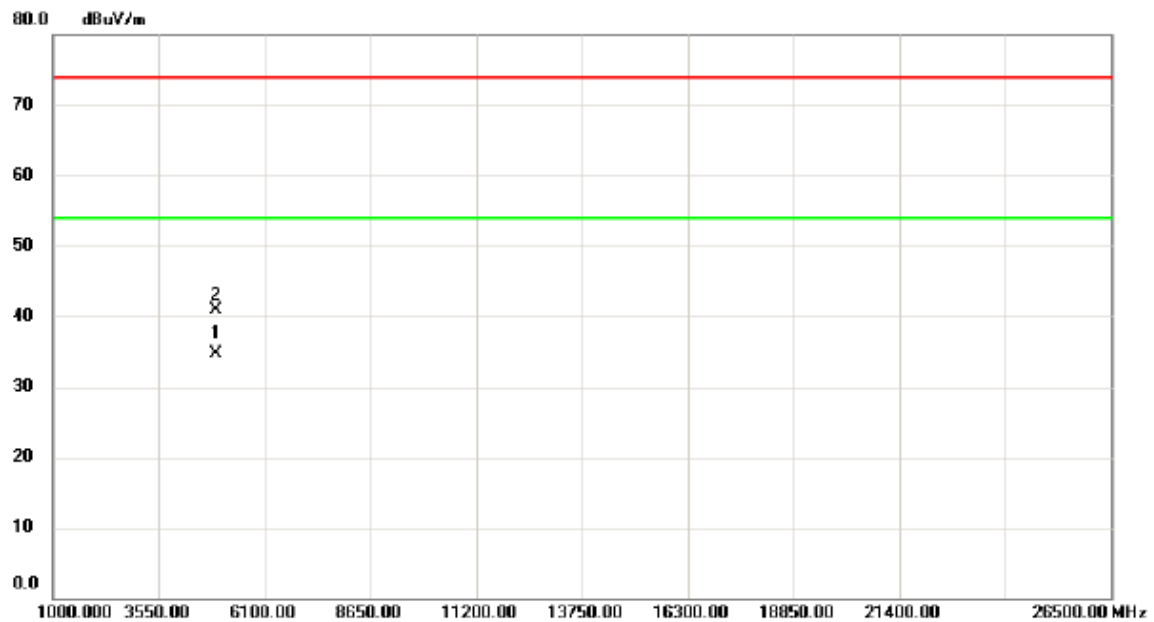
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2460.800	66.41	33.30	99.71	54.00	45.71	AVG	No Limit
2	X	2461.100	69.22	33.31	102.53	74.00	28.53	peak	No Limit
3		2483.500	23.54	33.40	56.94	74.00	-17.06	peak	
4		2483.500	13.85	33.40	47.25	54.00	-6.75	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

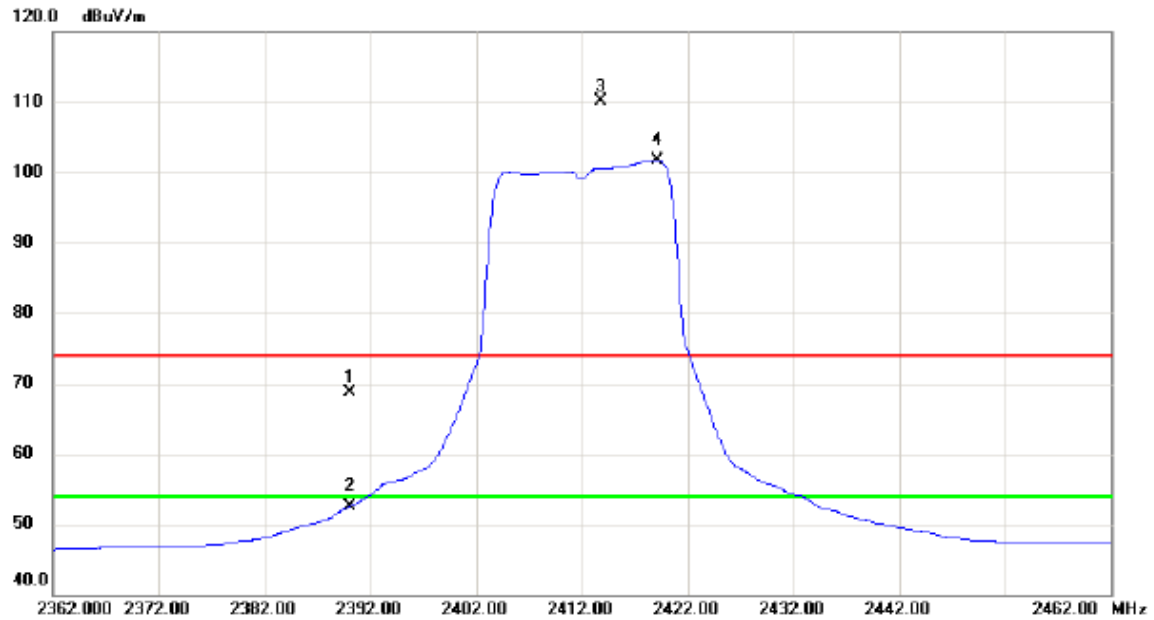
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4923.920	29.34	5.27	34.61	54.00	-19.39	AVG	
2		4923.990	35.72	5.27	40.99	74.00	-33.01	peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

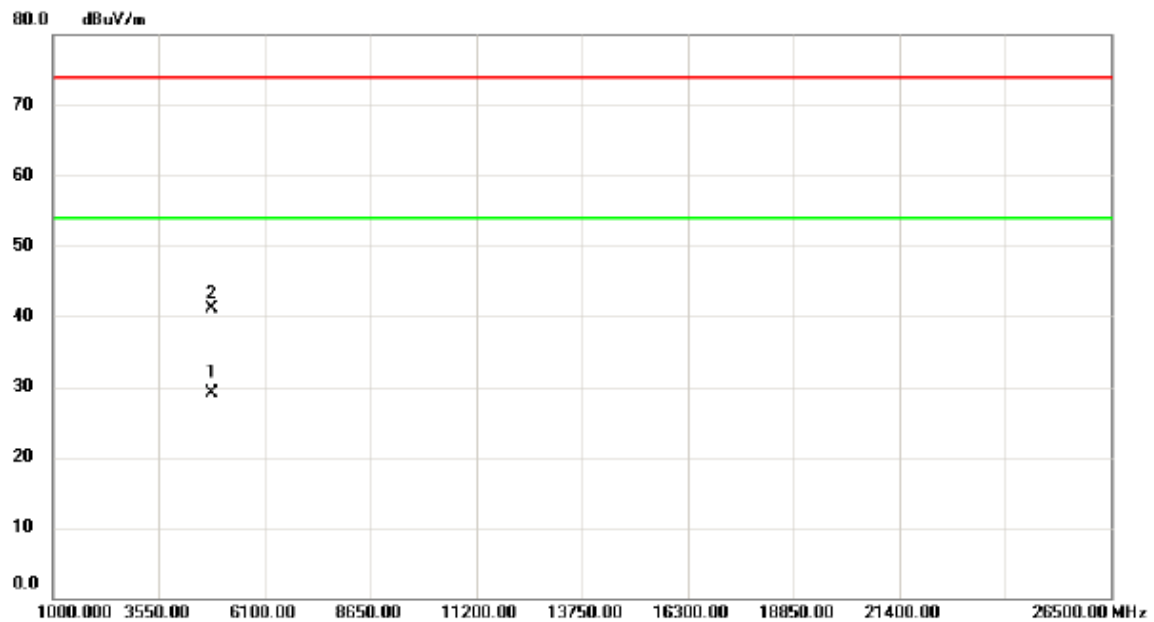
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	35.63	33.01	68.64	74.00	-5.36	peak	
2		2390.000	19.48	33.01	52.49	54.00	-1.51	AVG	
3	X	2413.800	76.95	33.11	110.06	74.00	36.06	peak	No Limit
4	*	2419.100	68.53	33.13	101.66	54.00	47.66	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

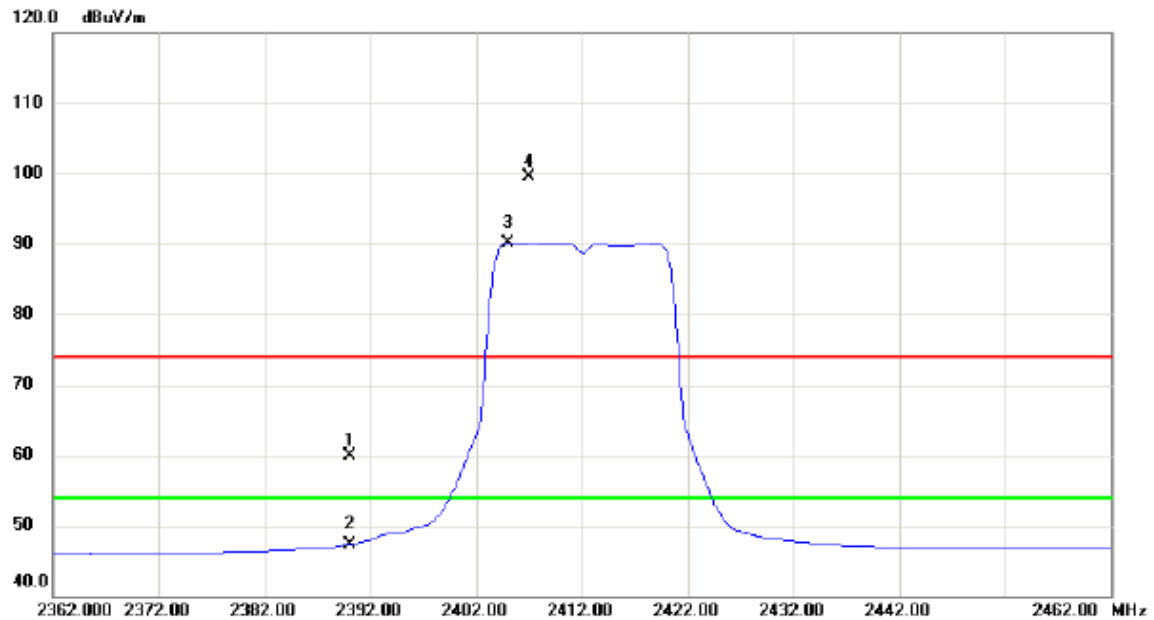
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4823.950	24.16	4.85	29.01	54.00	-24.99	AVG	
2		4824.150	36.17	4.85	41.02	74.00	-32.98	peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

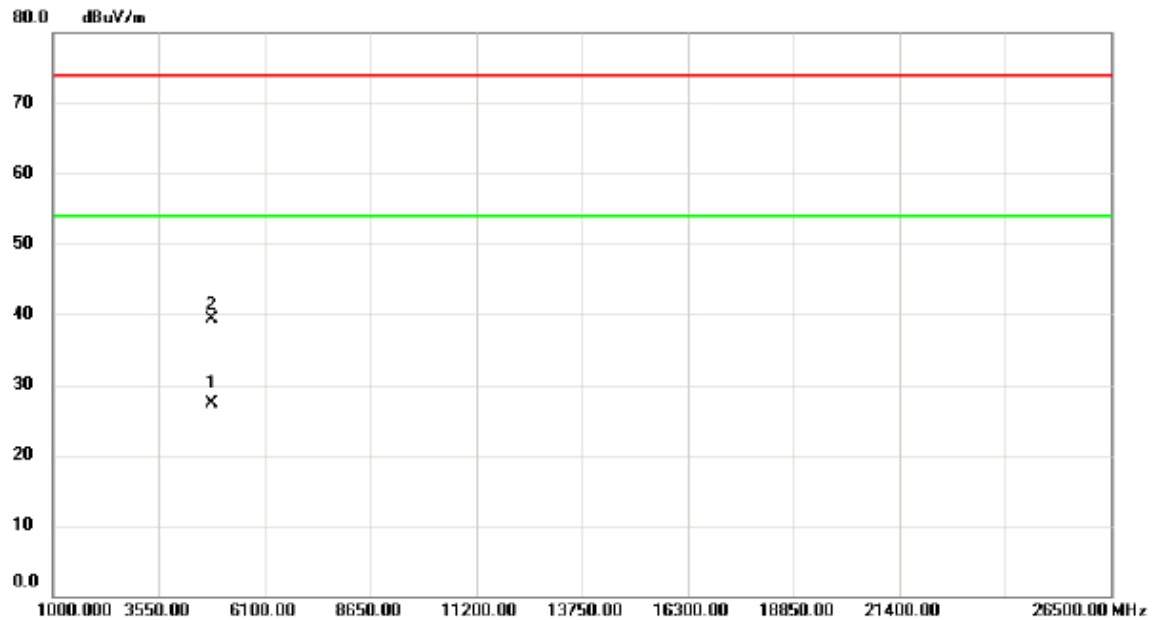
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.95	33.01	59.96	74.00	-14.04	peak	
2		2390.000	14.37	33.01	47.38	54.00	-6.62	AVG	
3	*	2405.000	57.11	33.08	90.19	54.00	36.19	AVG	No Limit
4	X	2407.000	66.39	33.08	99.47	74.00	25.47	peak	No Limit

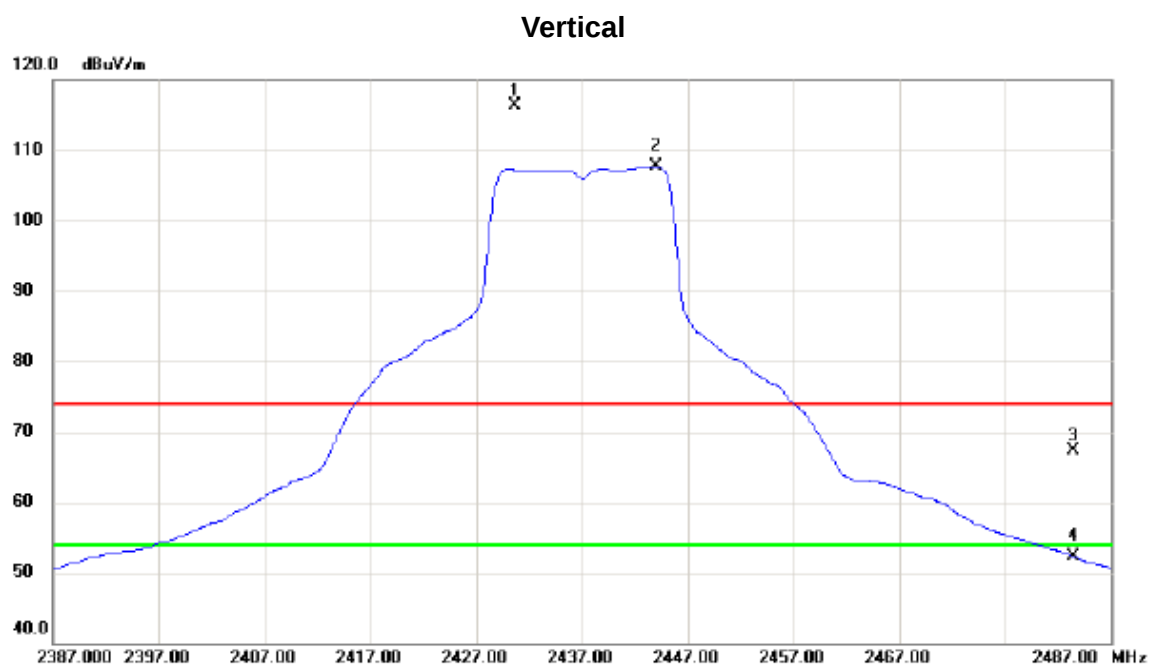
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4823.102	22.55	4.85	27.40	54.00	-26.60	AVG	
2		4823.601	34.55	4.85	39.40	74.00	-34.60	peak	

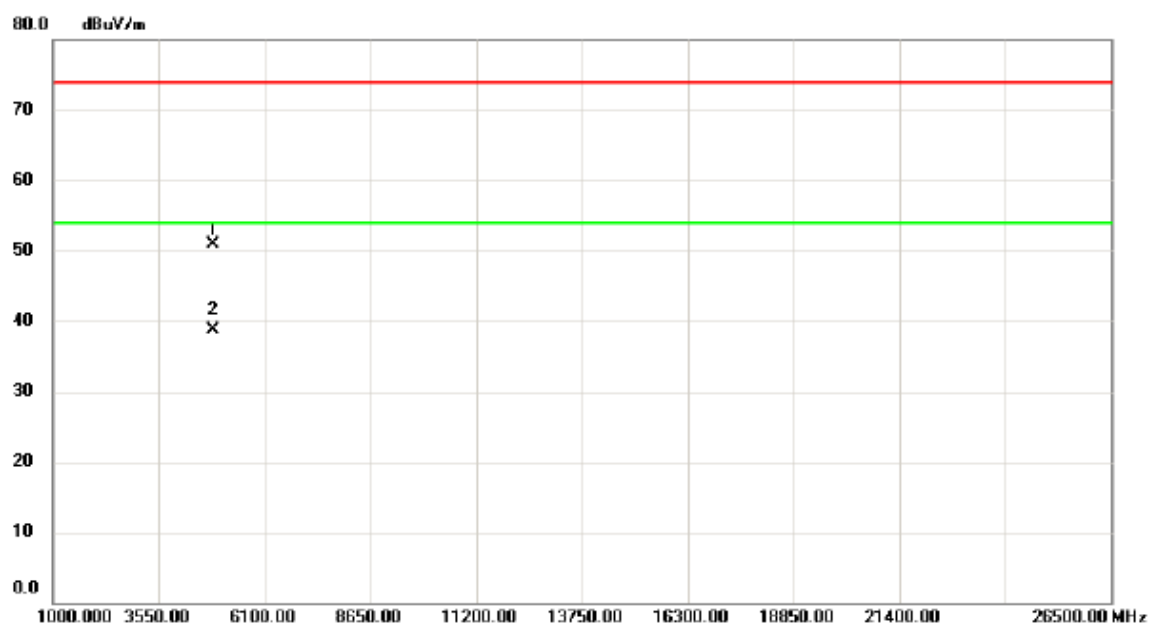
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2430.700	83.22	33.18	116.40	74.00	42.40	peak	No Limit
2	*	2444.000	74.42	33.24	107.66	54.00	53.66	AVG	No Limit
3		2483.500	33.99	33.40	67.39	74.00	-6.61	peak	
4		2483.500	18.84	33.40	52.24	54.00	-1.76	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

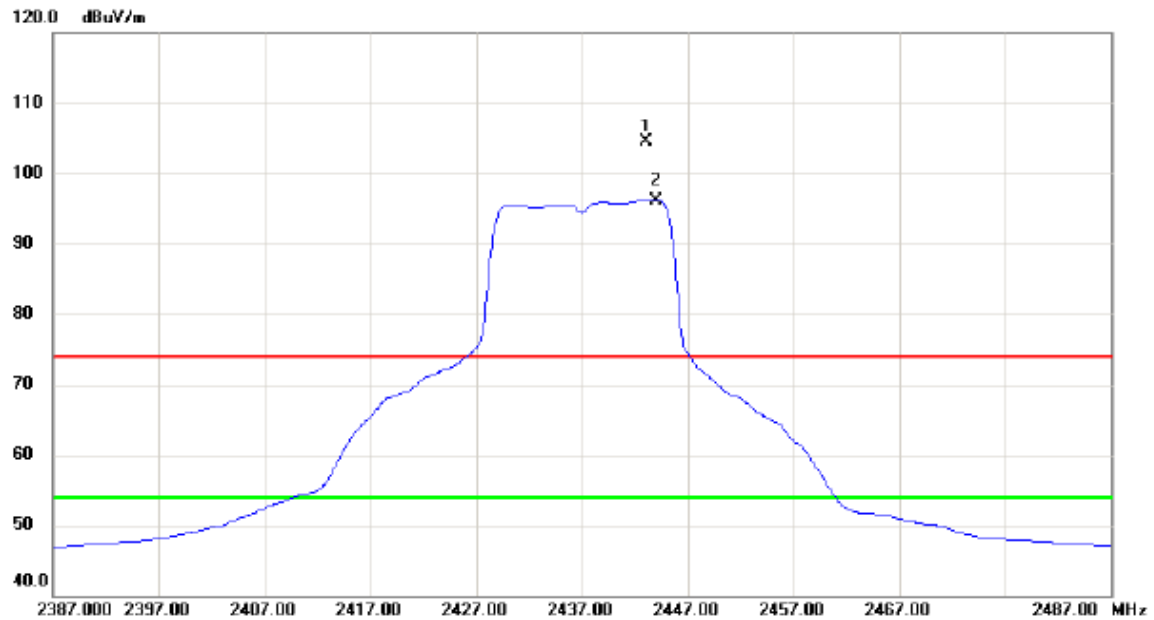
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.650	45.87	5.06	50.93	74.00	-23.07	peak	
2	*	4874.950	33.58	5.06	38.64	54.00	-15.36	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

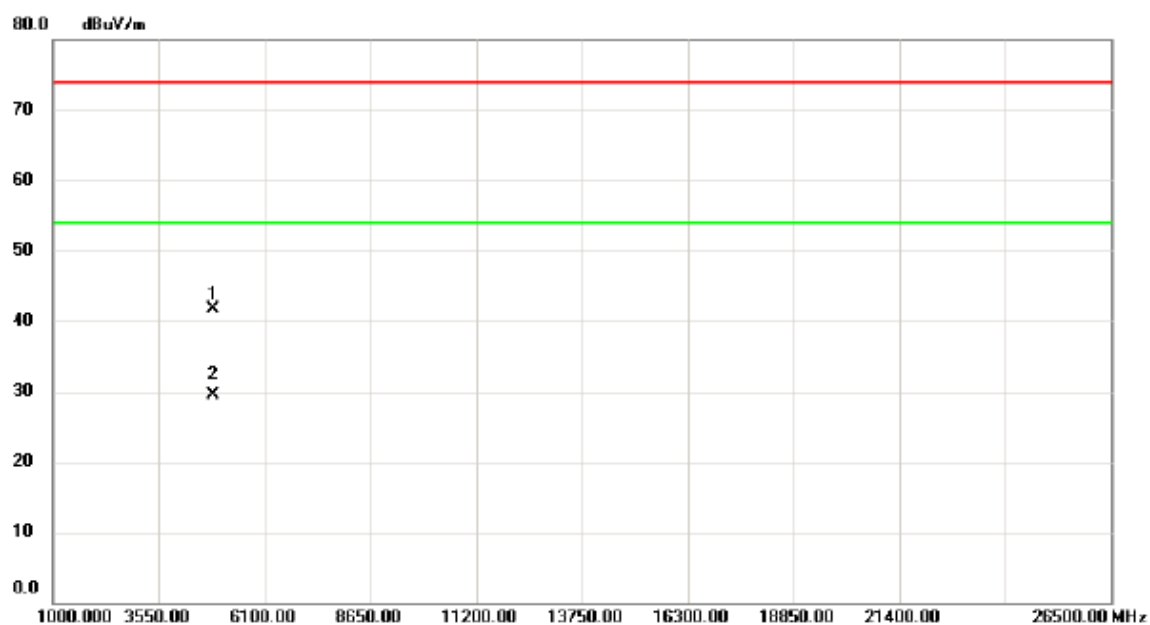
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2443.100	71.22	33.23	104.45	74.00	30.45	peak	No Limit
2	*	2444.000	62.92	33.24	96.16	54.00	42.16	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

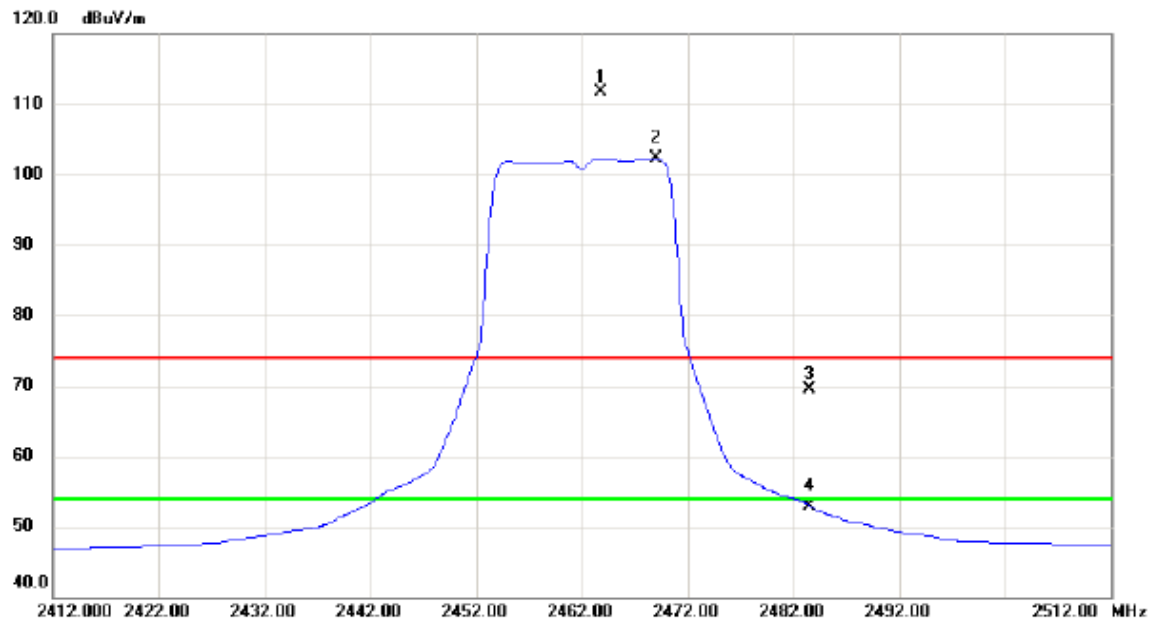
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.519	36.66	5.06	41.72	74.00	-32.28	peak	
2	*	4873.900	24.38	5.06	29.44	54.00	-24.56	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

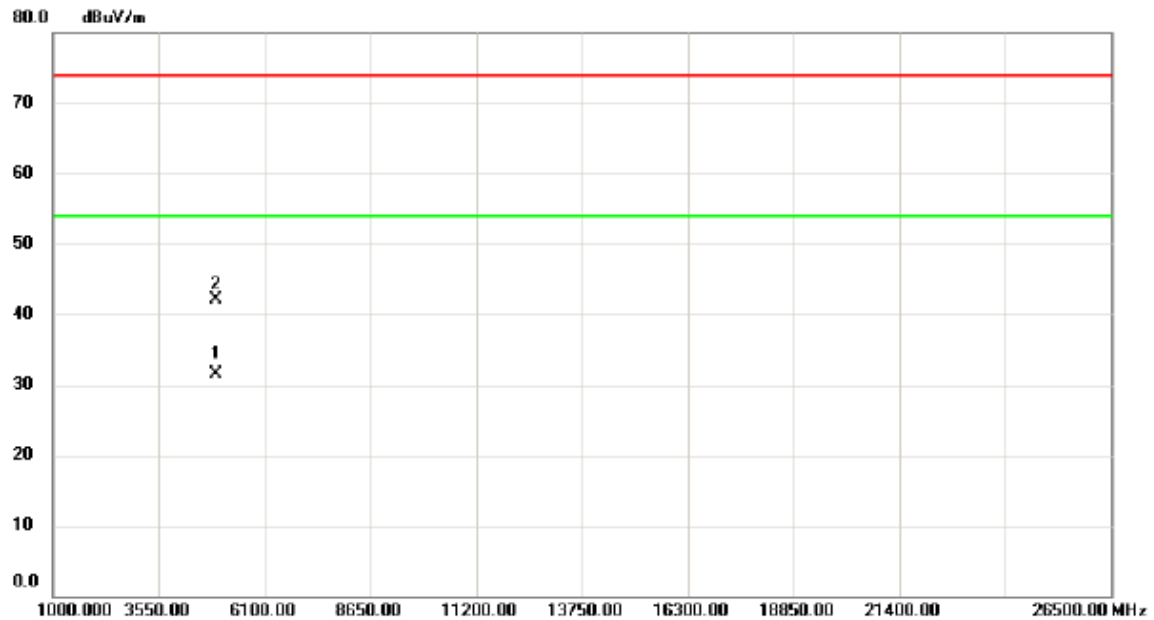
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2463.800	78.42	33.31	111.73	74.00	37.73	peak	No Limit
2	*	2469.000	68.88	33.34	102.22	54.00	48.22	AVG	No Limit
3		2483.500	36.19	33.40	69.59	74.00	-4.41	peak	
4		2483.500	19.52	33.40	52.92	54.00	-1.08	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

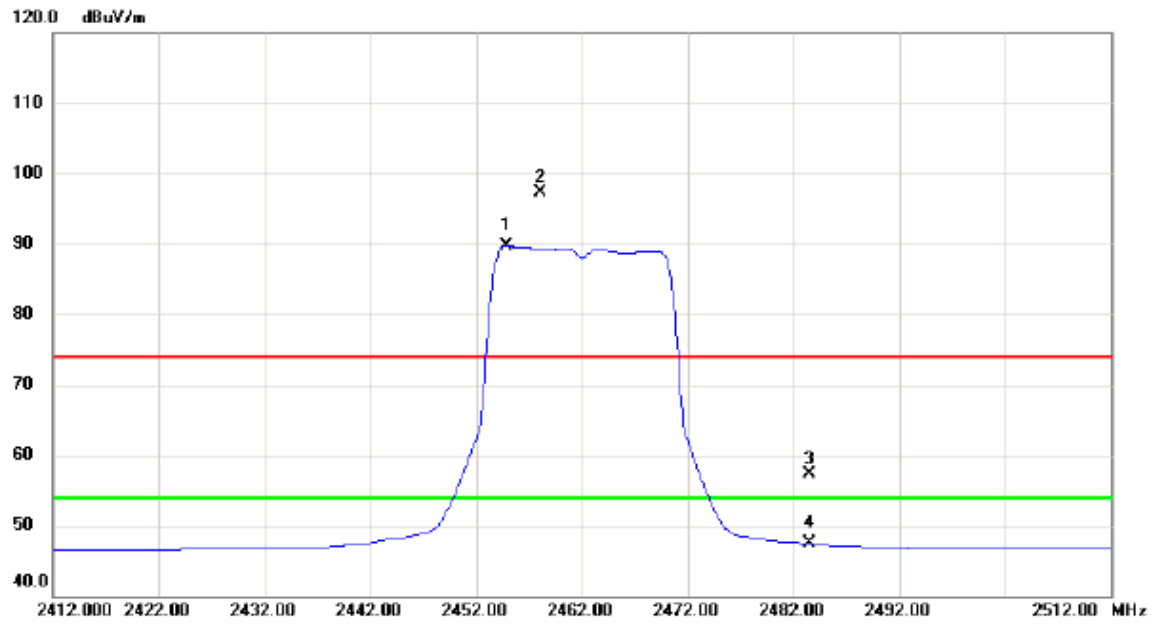
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4923.930	26.18	5.27	31.45	54.00	-22.55	AVG	
2		4924.570	36.88	5.27	42.15	74.00	-31.85	peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

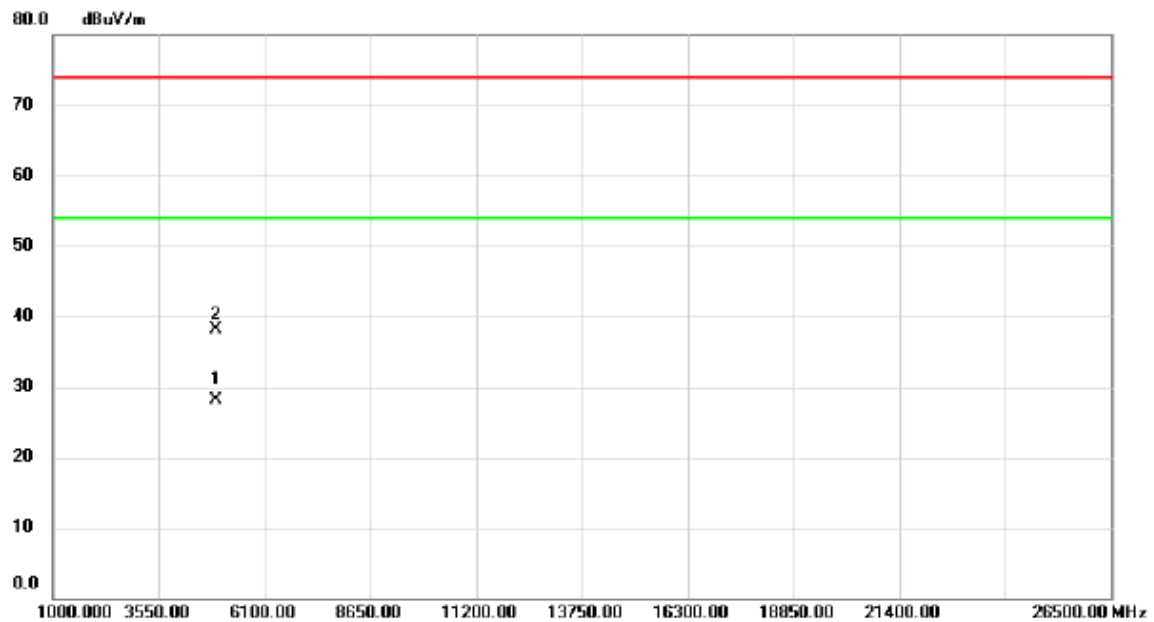
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2454.900	56.40	33.29	89.69	54.00	35.69	AVG	No Limit
2	X	2458.100	63.92	33.30	97.22	74.00	23.22	peak	No Limit
3		2483.500	23.87	33.40	57.27	74.00	-16.73	peak	
4		2483.500	14.09	33.40	47.49	54.00	-6.51	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

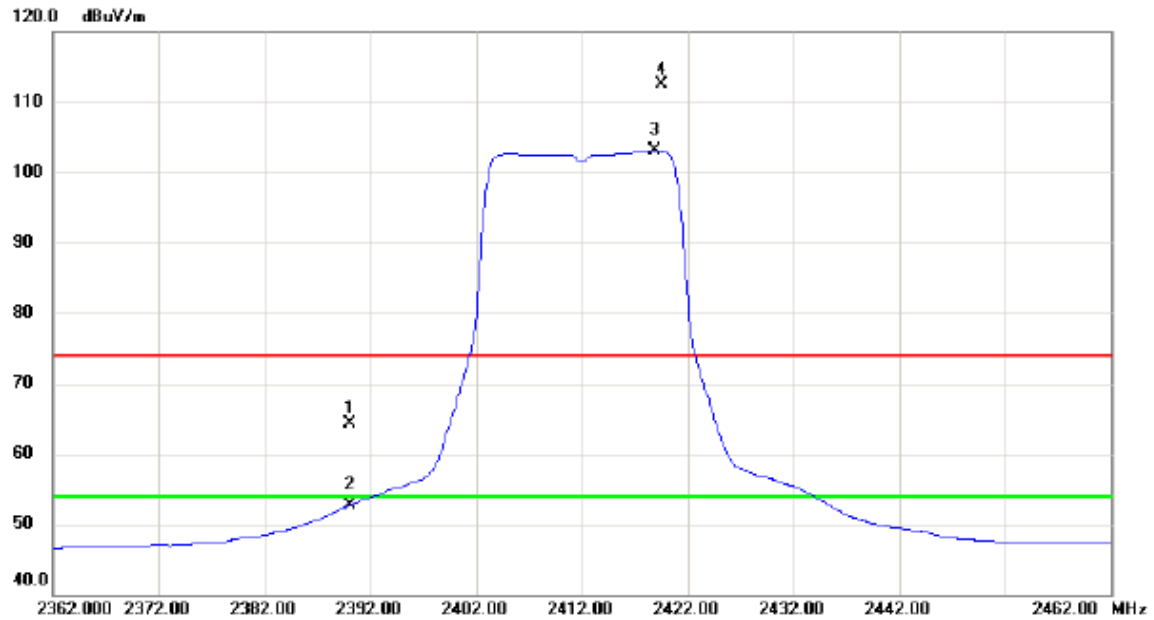
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4922.902	22.89	5.27	28.16	54.00	-25.84	AVG	
2		4924.150	32.75	5.27	38.02	74.00	-35.98	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

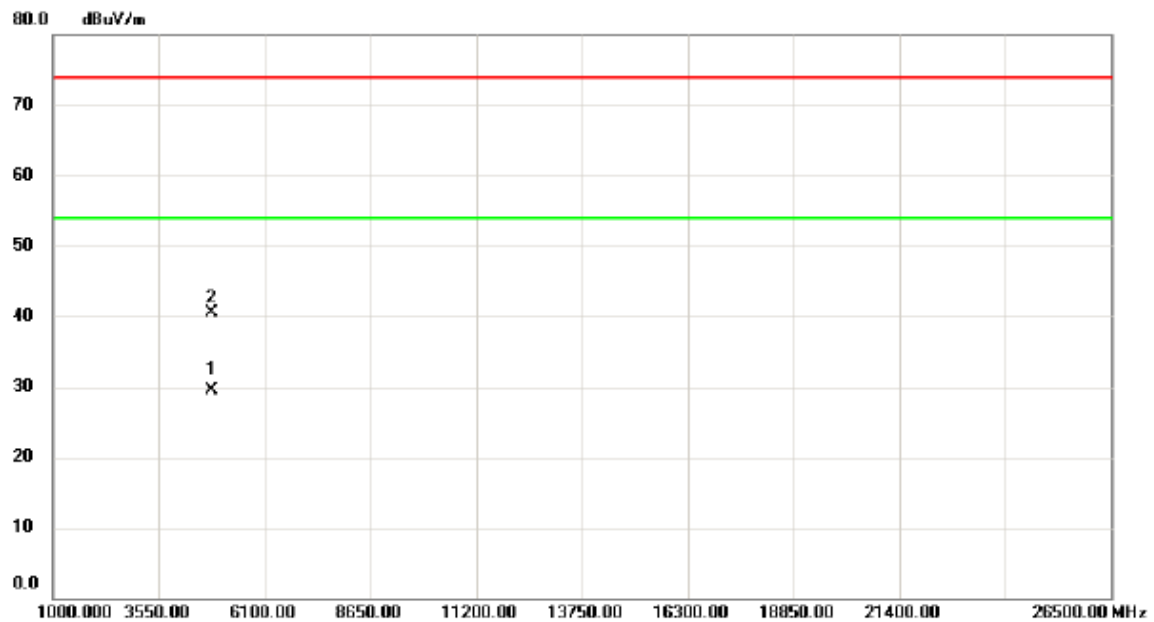
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	31.29	33.01	64.30	74.00	-9.70	peak	
2		2390.000	19.71	33.01	52.72	54.00	-1.28	AVG	
3	*	2418.900	69.94	33.13	103.07	54.00	49.07	AVG	No Limit
4	X	2419.500	79.29	33.13	112.42	74.00	38.42	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

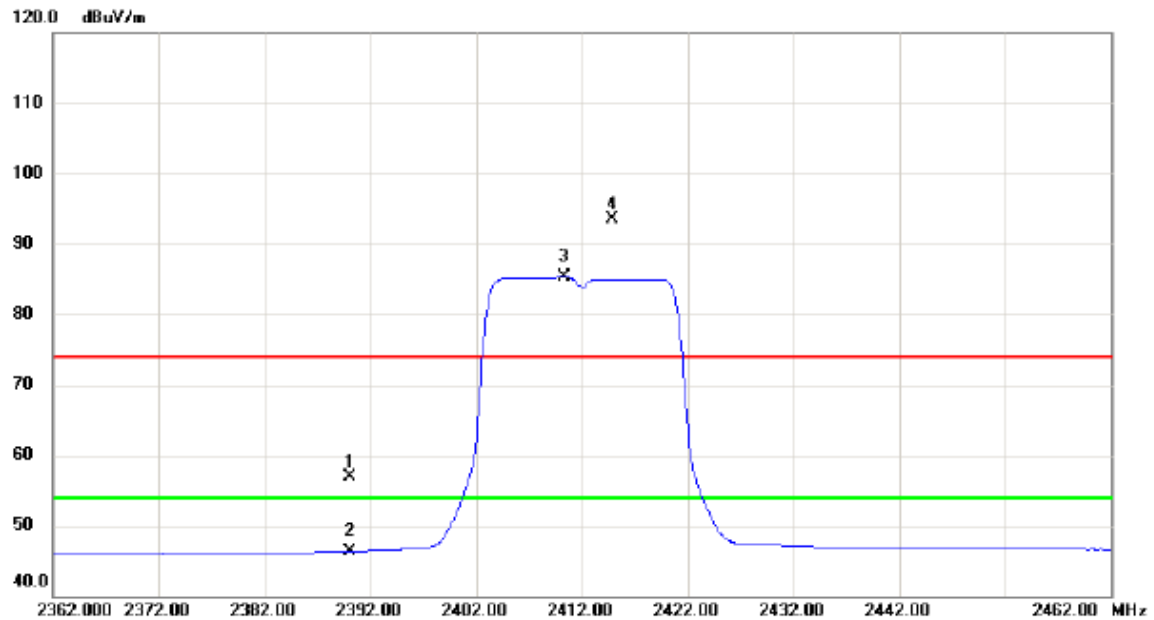
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4824.850	24.72	4.85	29.57	54.00	-24.43	AVG	
2		4823.600	35.65	4.85	40.50	74.00	-33.50	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

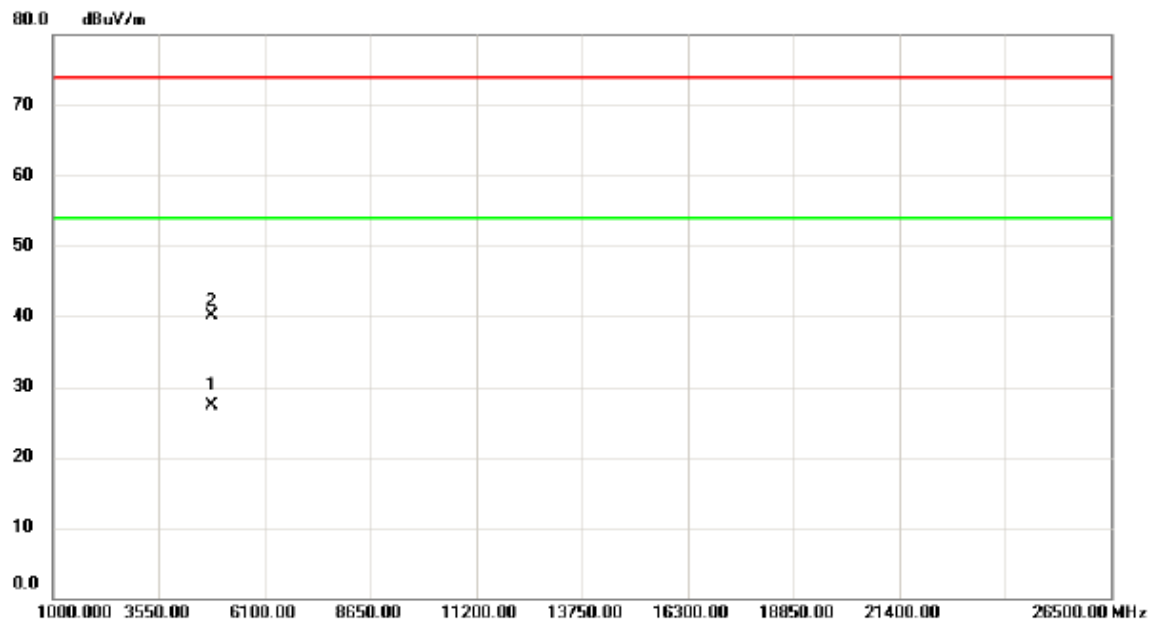
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.88	33.01	56.89	74.00	-17.11	peak	
2		2390.000	13.31	33.01	46.32	54.00	-7.68	AVG	
3	*	2410.300	52.13	33.09	85.22	54.00	31.22	AVG	No Limit
4	X	2414.900	60.48	33.12	93.60	74.00	19.60	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2412MHz

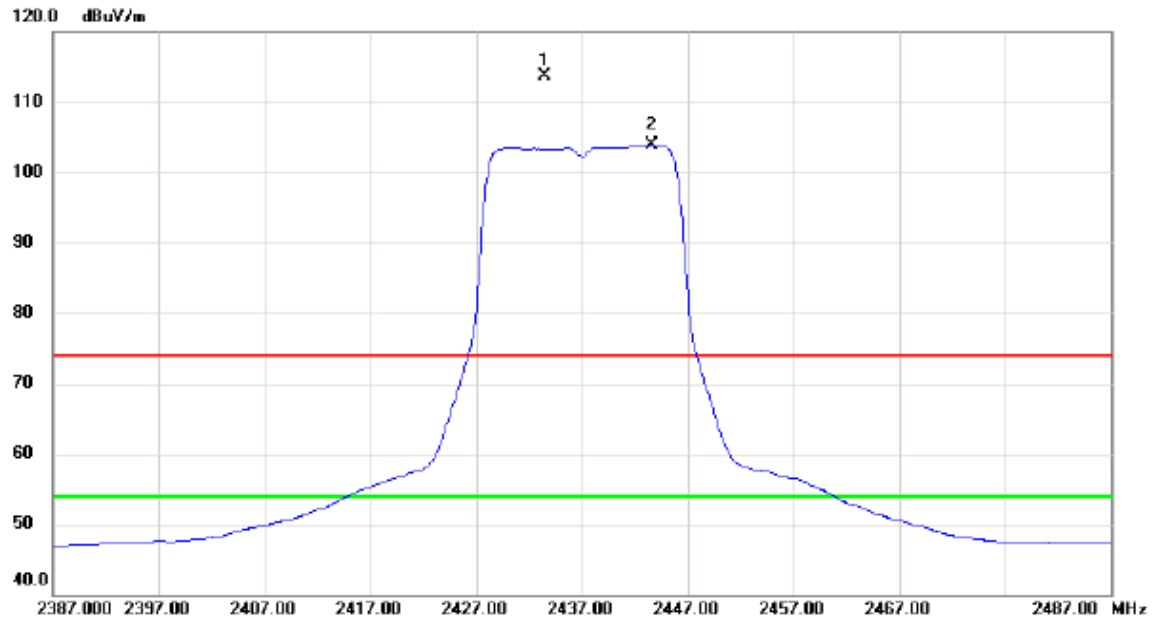
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4823.550	22.54	4.85	27.39	54.00	-26.61	AVG	
2		4824.050	35.32	4.85	40.17	74.00	-33.83	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

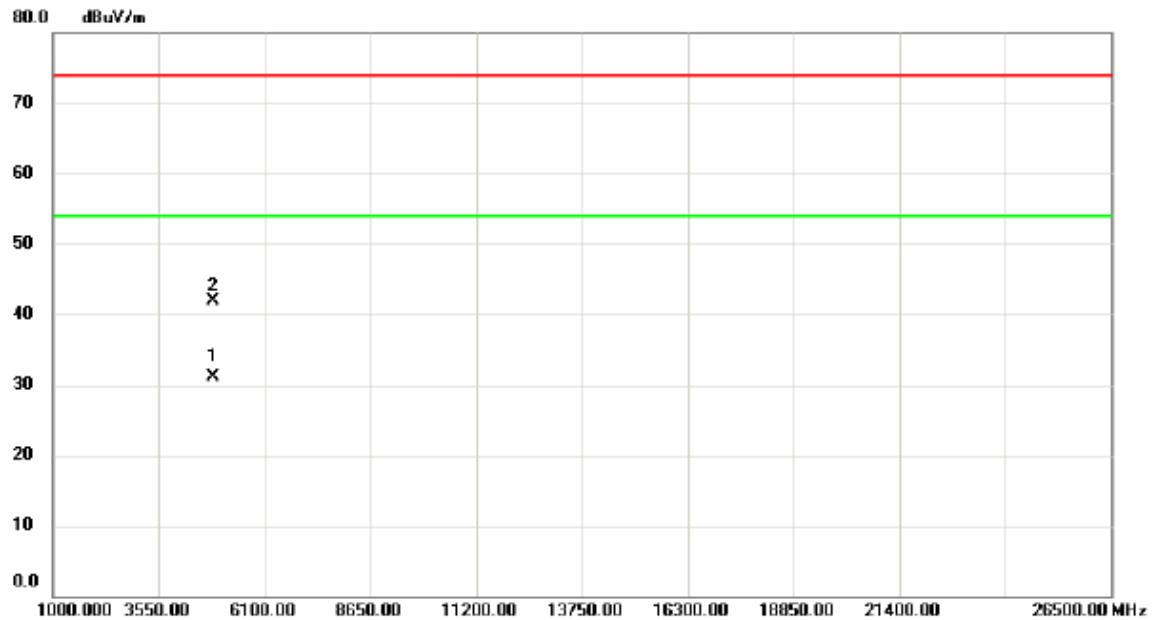
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2433.500	80.42	33.19	113.61	74.00	39.61	peak	No Limit
2	*	2443.600	70.58	33.23	103.81	54.00	49.81	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

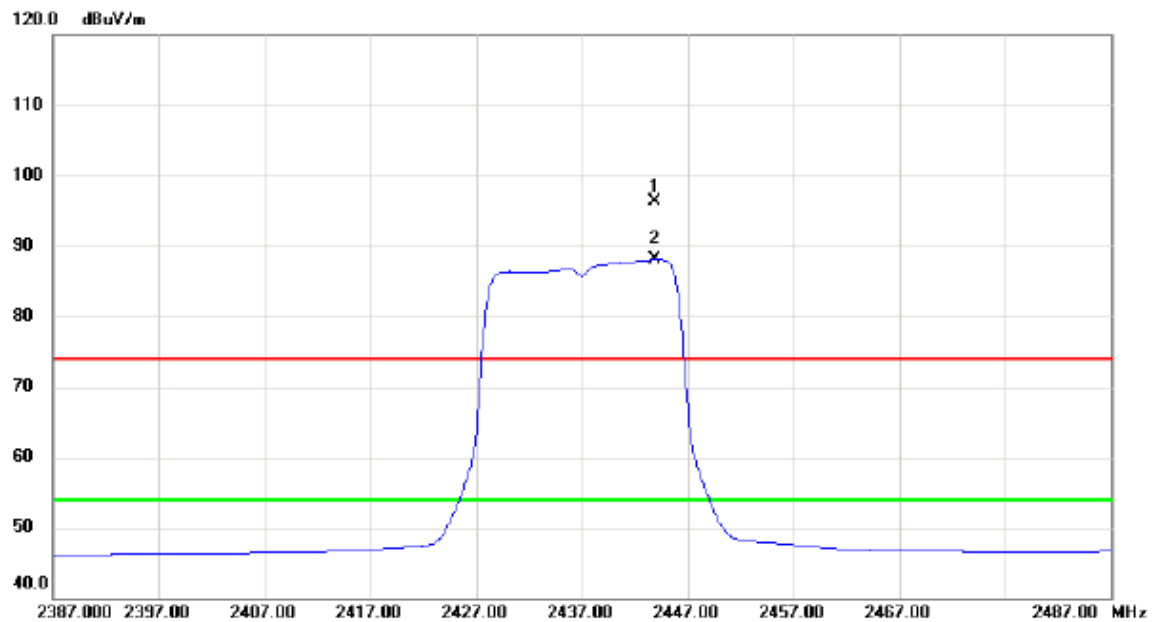
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4873.000	26.09	5.06	31.15	54.00	-22.85	AVG	
2		4874.750	36.90	5.06	41.96	74.00	-32.04	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

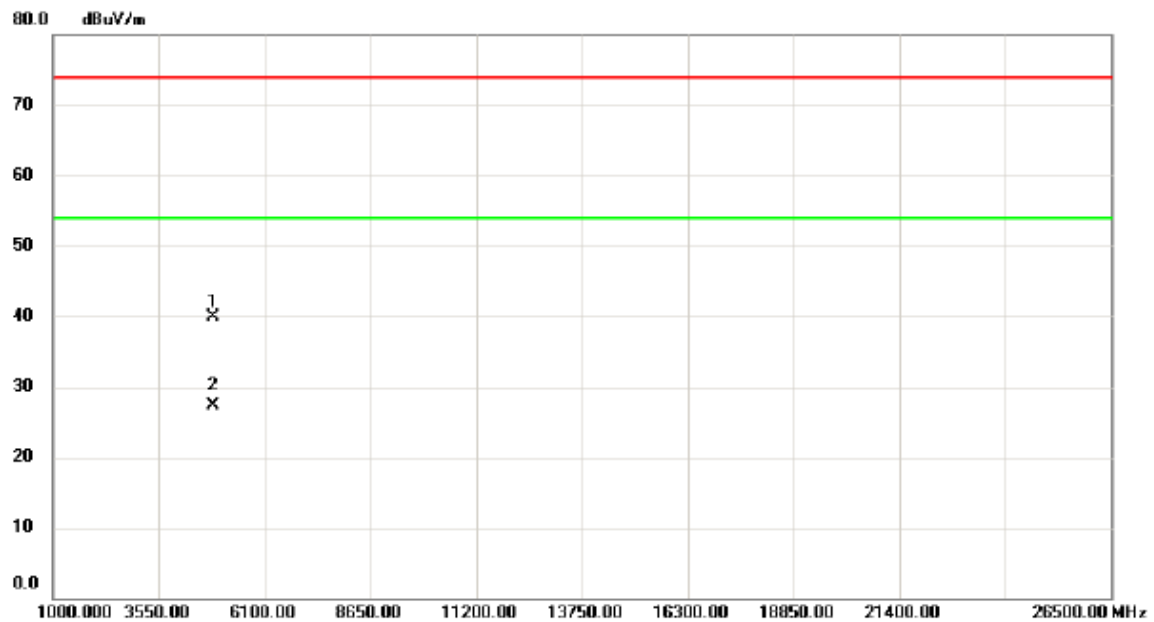
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2443.900	62.97	33.24	96.21	74.00	22.21	peak	No Limit
2	*	2443.900	54.84	33.24	88.08	54.00	34.08	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2437MHz

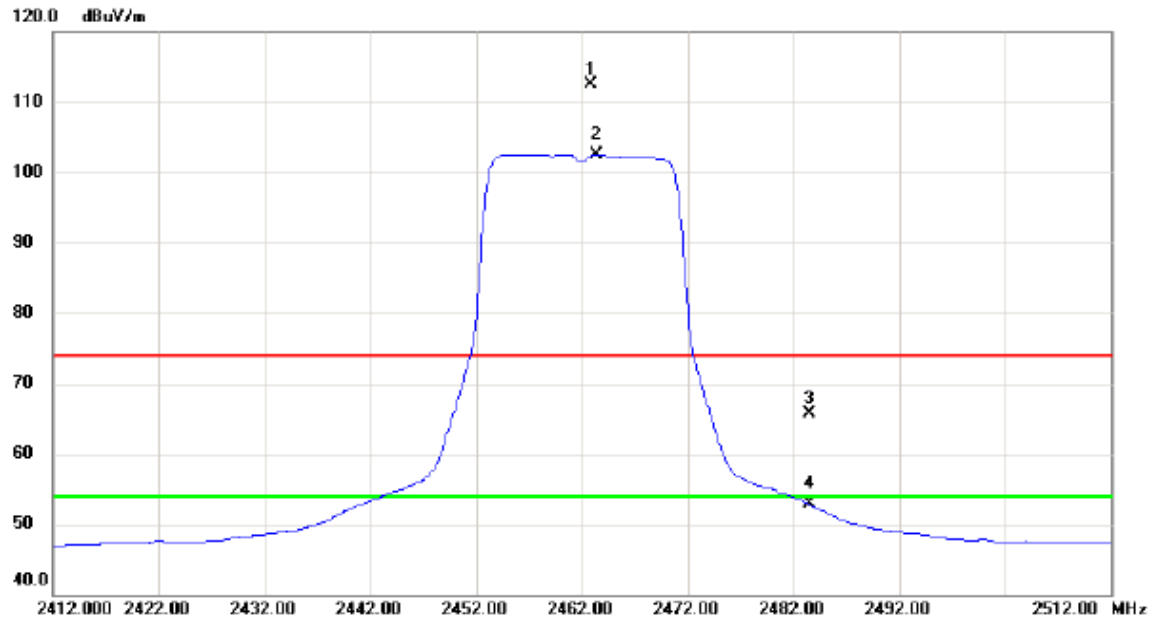
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.413	34.84	5.06	39.90	74.00	-34.10	peak	
2	*	4874.399	22.33	5.06	27.39	54.00	-26.61	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

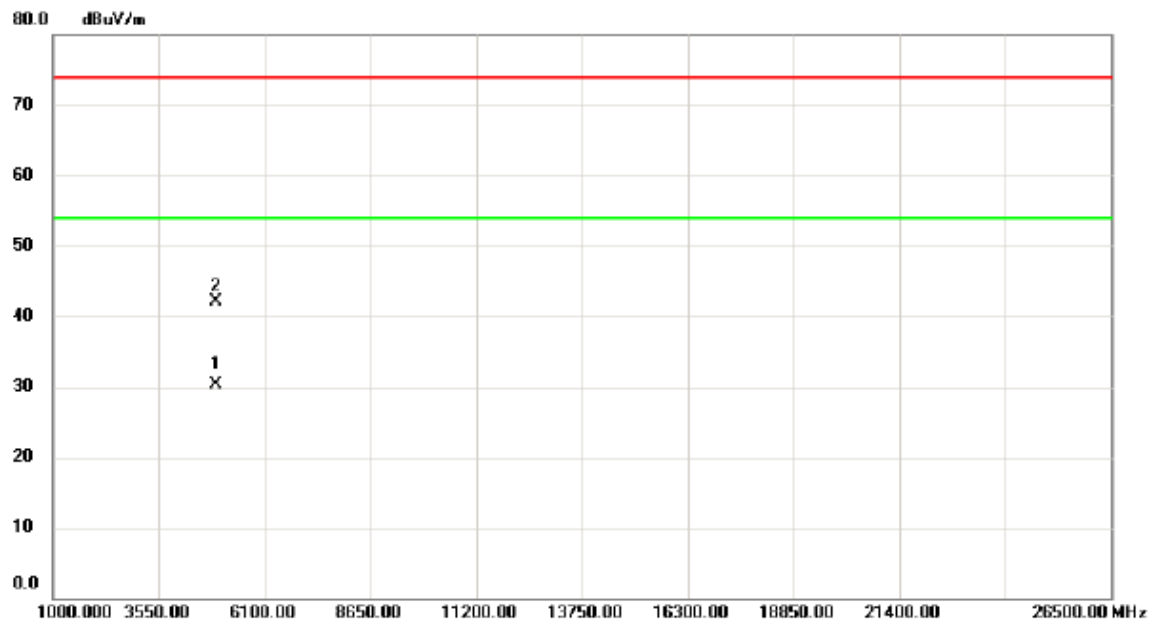
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.800	79.28	33.31	112.59	74.00	38.59	peak	No Limit
2	*	2463.400	69.23	33.31	102.54	54.00	48.54	AVG	No Limit
3		2483.500	32.33	33.40	65.73	74.00	-8.27	peak	
4		2483.500	19.45	33.40	52.85	54.00	-1.15	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

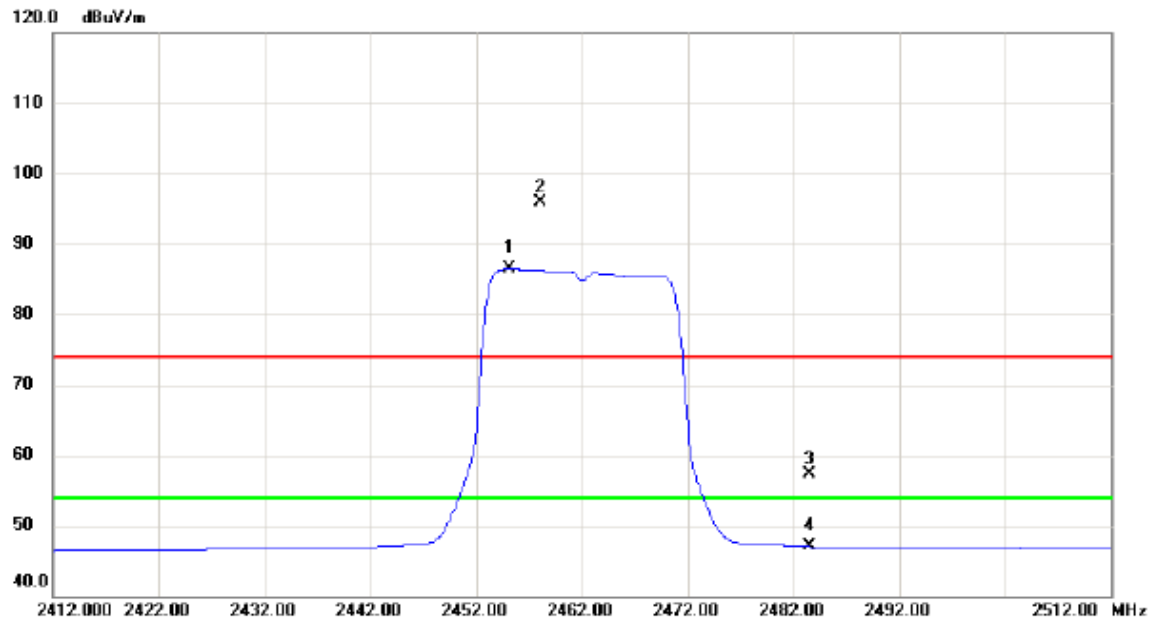
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4922.950	25.05	5.27	30.32	54.00	-23.68	AVG	
2		4924.000	36.79	5.27	42.06	74.00	-31.94	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

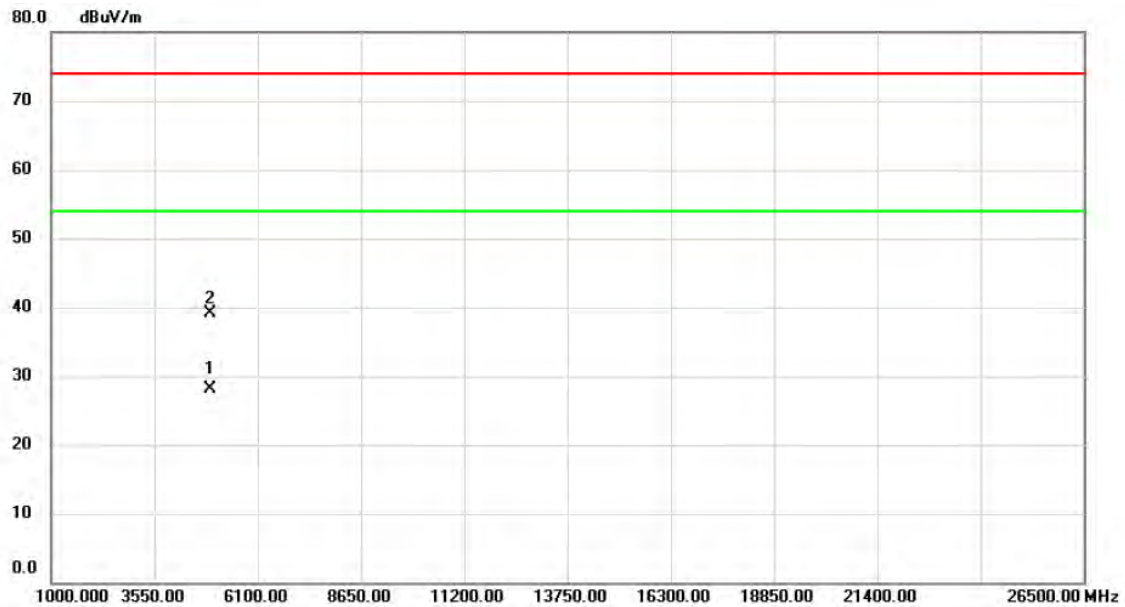
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2455.200	53.17	33.29	86.46	54.00	32.46	AVG	No Limit
2	X	2458.100	62.53	33.30	95.83	74.00	21.83	peak	No Limit
3		2483.500	23.80	33.40	57.20	74.00	-16.80	peak	
4		2483.500	13.62	33.40	47.02	54.00	-6.98	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2462MHz

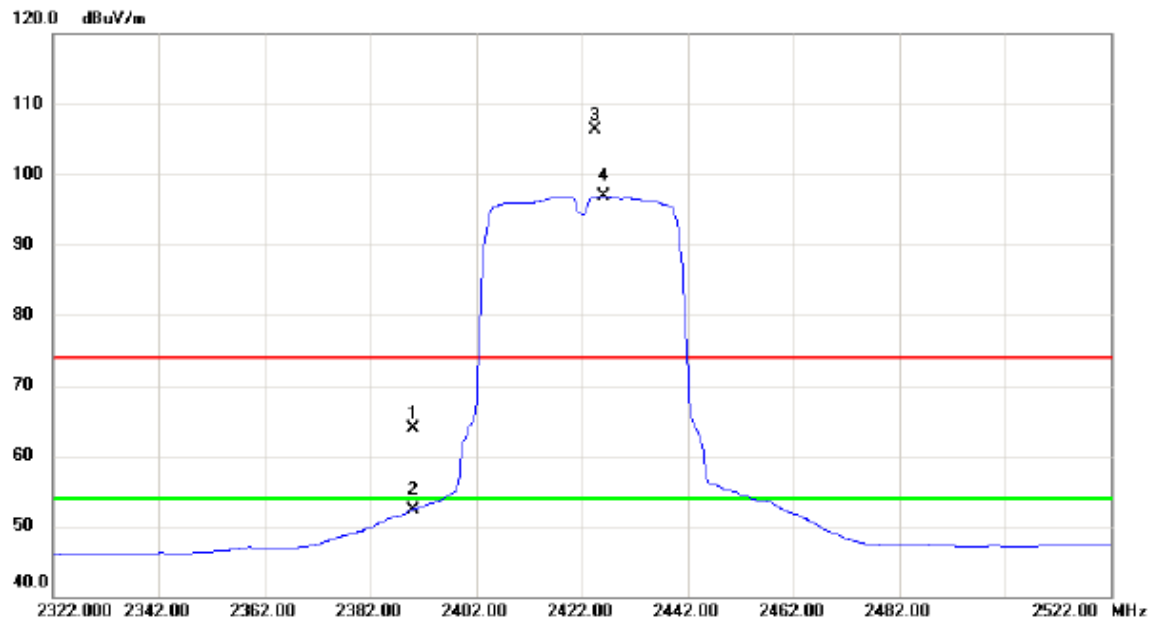
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4922.453	22.89	5.27	28.16	54.00	-25.84	AVG	
2		4923.102	33.87	5.27	39.14	74.00	-34.86	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

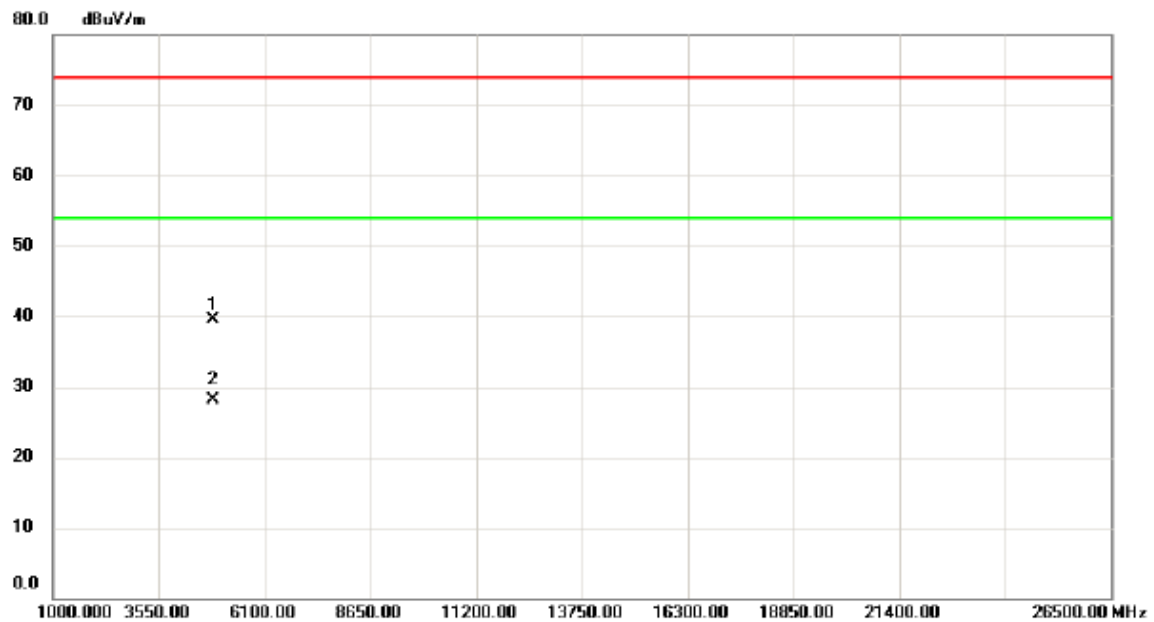
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	30.97	33.01	63.98	74.00	-10.02	peak	
2		2390.000	19.35	33.01	52.36	54.00	-1.64	AVG	
3	X	2424.600	73.15	33.16	106.31	74.00	32.31	peak	No Limit
4	*	2426.200	63.77	33.16	96.93	54.00	42.93	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

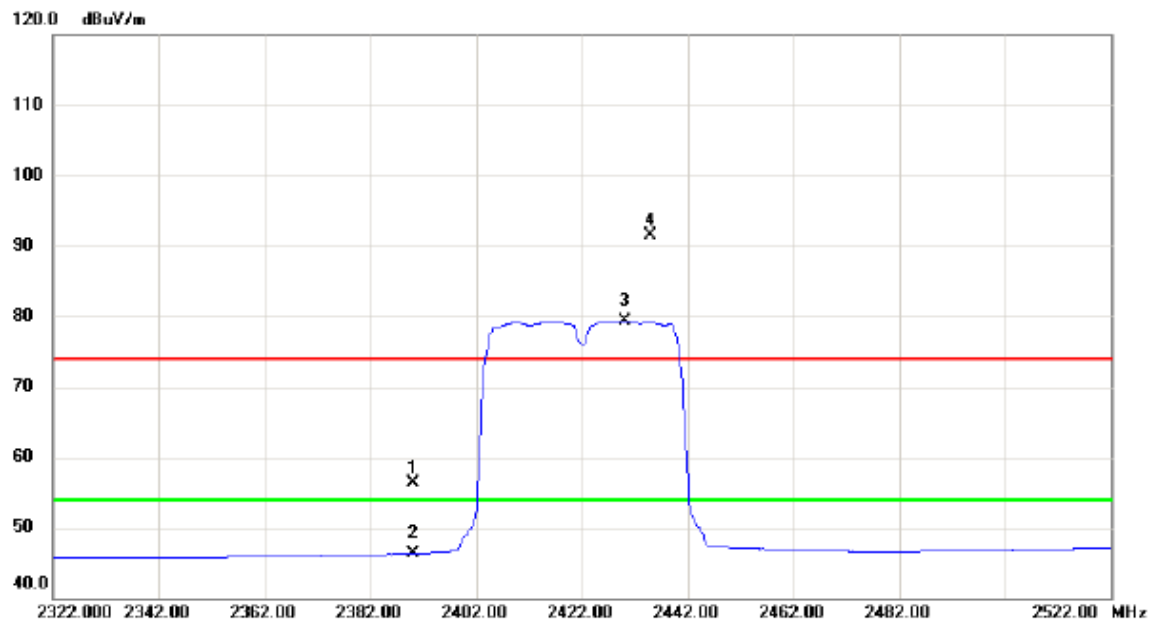
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4842.750	34.63	4.94	39.57	74.00	-34.43	peak	
2	*	4843.950	23.17	4.94	28.11	54.00	-25.89	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

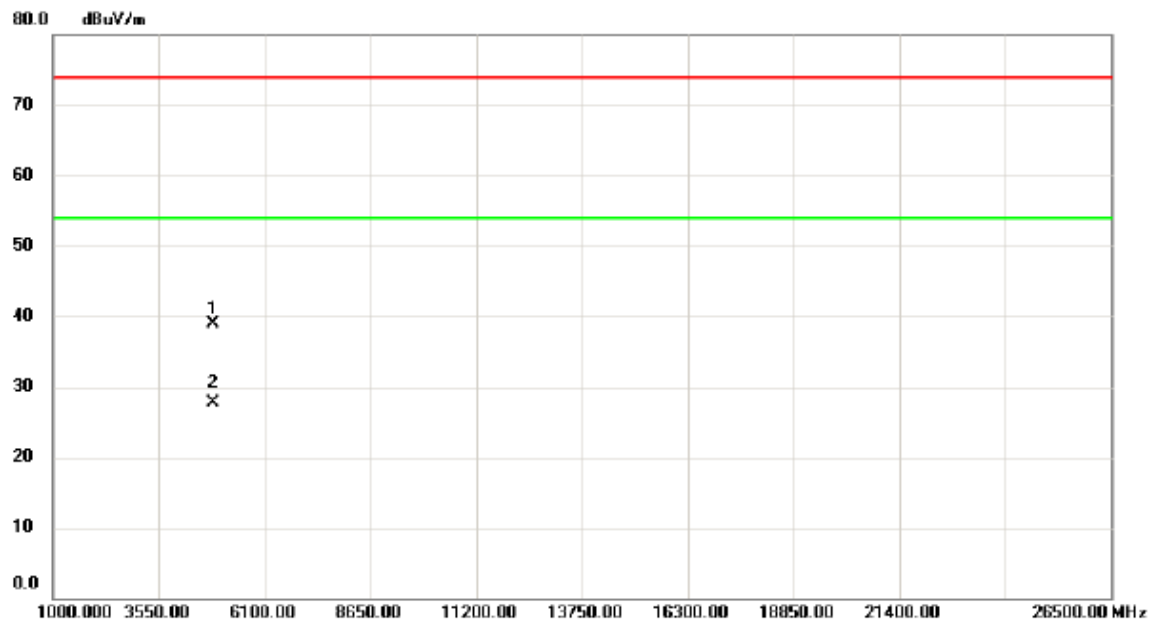
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.33	33.01	56.34	74.00	-17.66	peak	
2		2390.000	13.29	33.01	46.30	54.00	-7.70	AVG	
3	*	2430.200	46.14	33.18	79.32	54.00	25.32	AVG	No Limit
4	X	2435.000	58.39	33.20	91.59	74.00	17.59	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

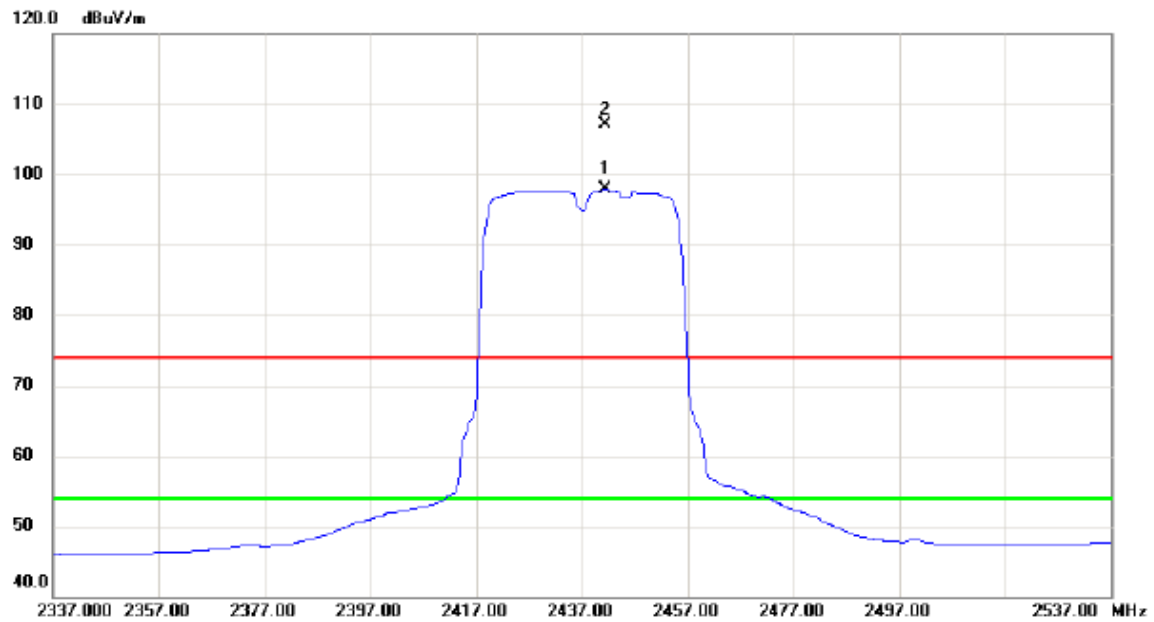
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4843.800	33.97	4.94	38.91	74.00	-35.09	peak	
2	*	4844.150	22.68	4.94	27.62	54.00	-26.38	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

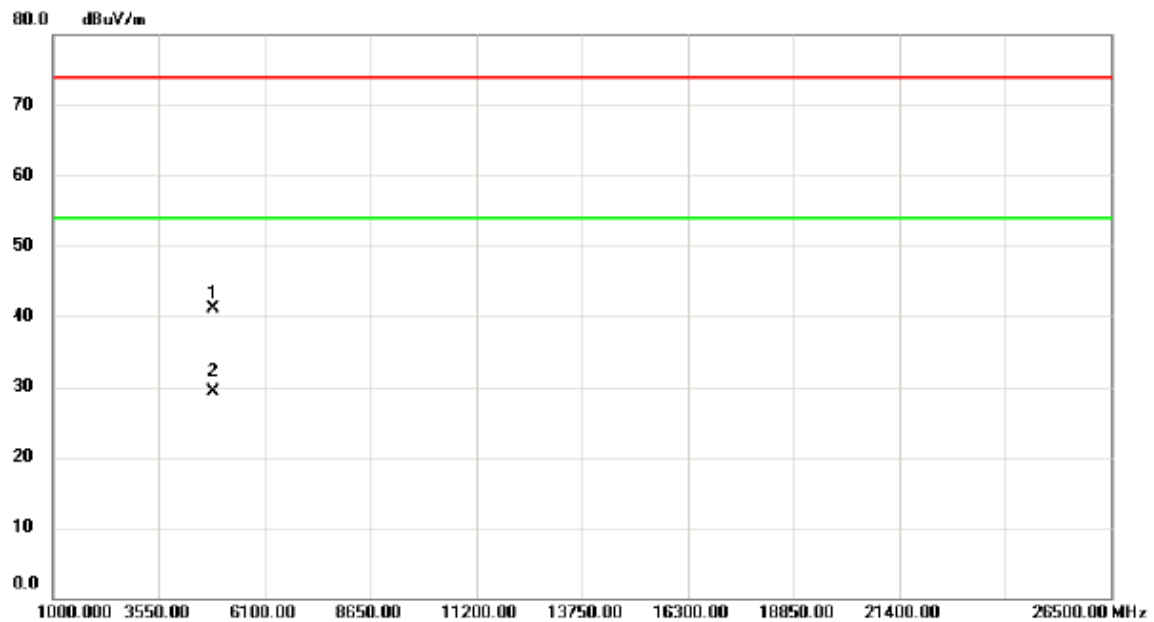
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2441.400	64.61	33.22	97.83	54.00	43.83	AVG	No Limit
2	X	2441.400	73.95	33.22	107.17	74.00	33.17	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

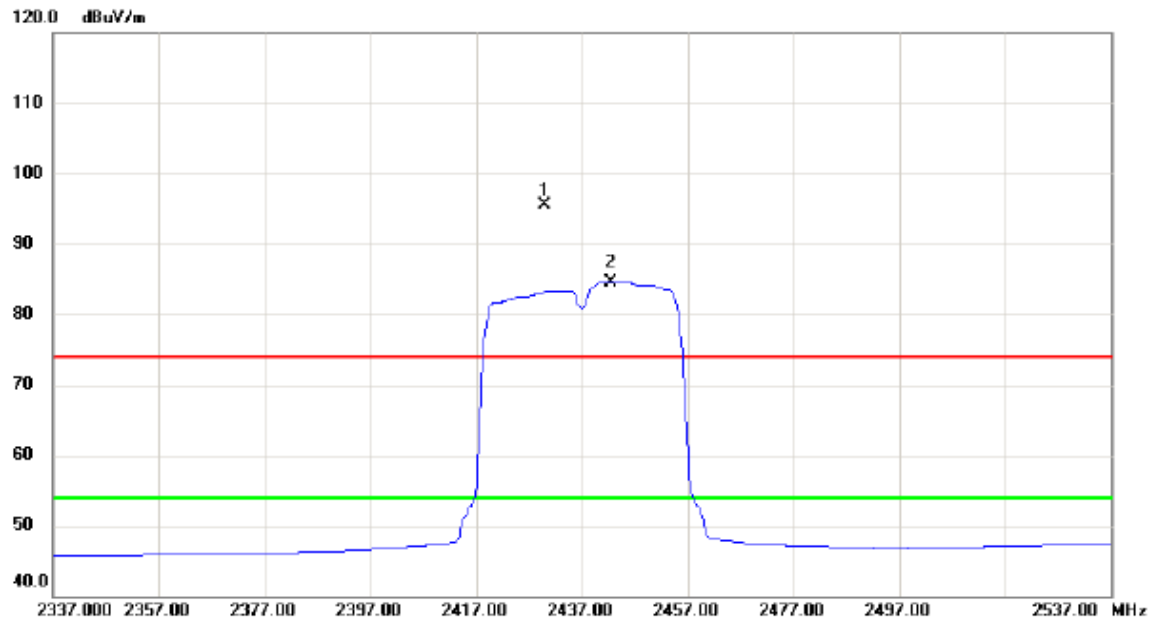
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4872.550	35.97	5.06	41.03	74.00	-32.97	peak	
2	*	4873.150	24.26	5.06	29.32	54.00	-24.68	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

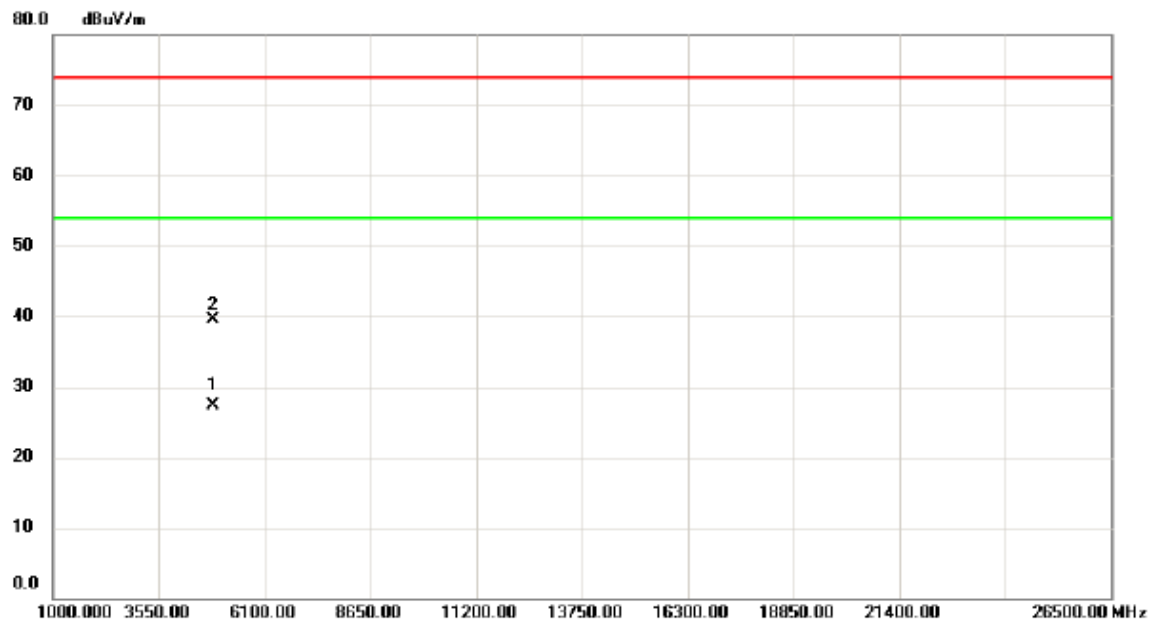
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2430.000	62.32	33.18	95.50	74.00	21.50	peak	No Limit
2	*	2442.600	51.36	33.23	84.59	54.00	30.59	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

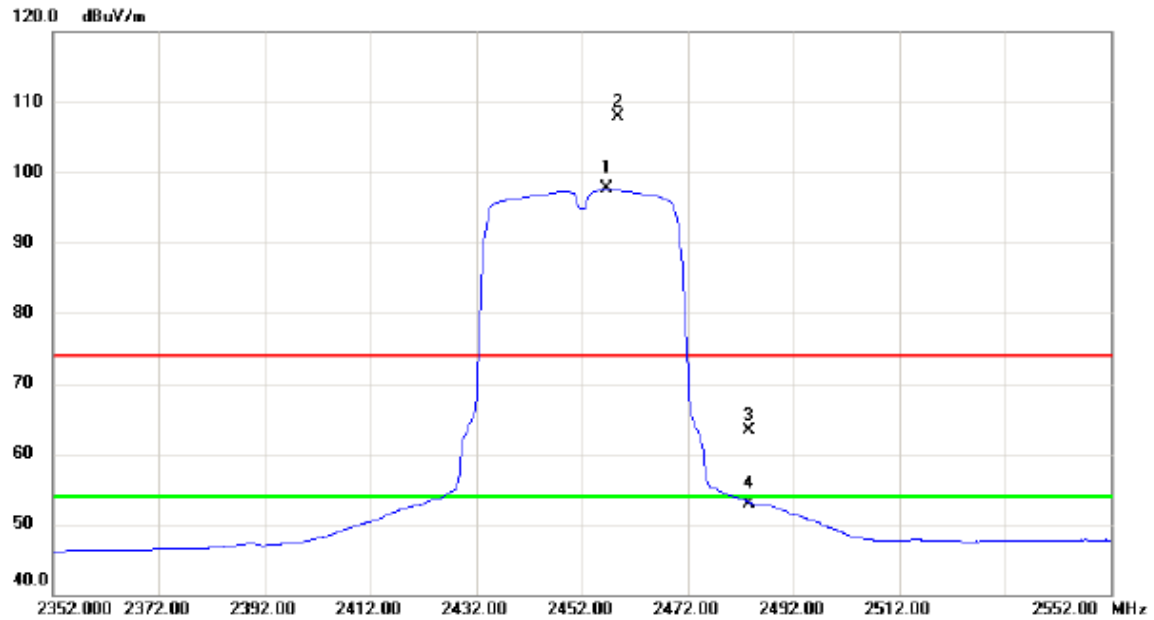
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4874.050	22.31	5.06	27.37	54.00	-26.63	AVG	
2		4873.300	34.52	5.06	39.58	74.00	-34.42	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

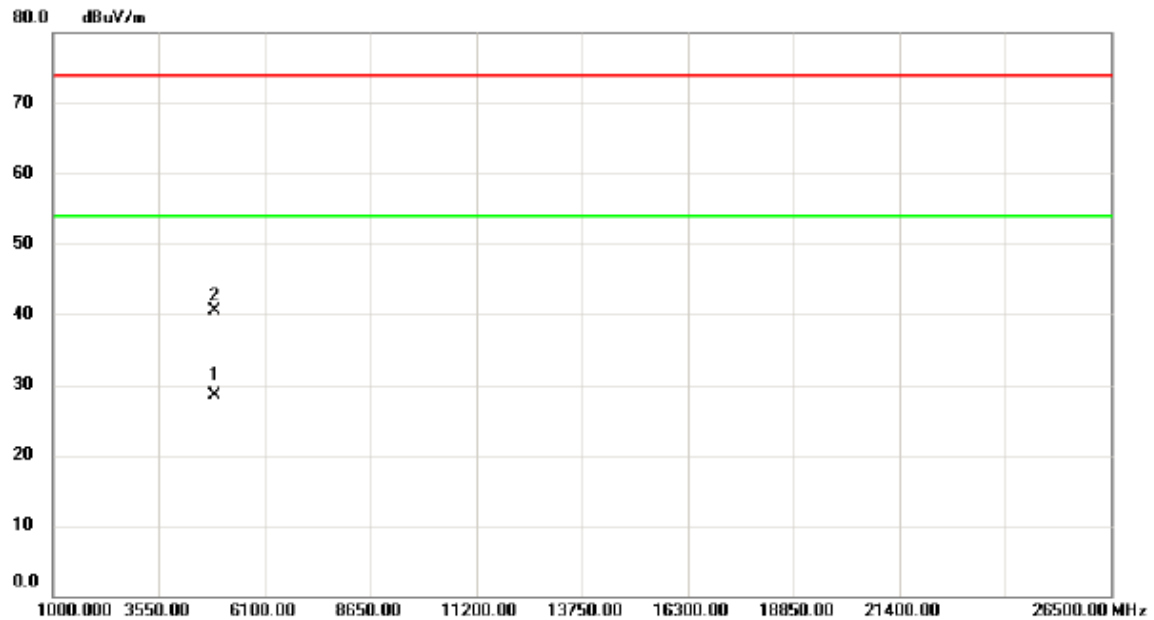
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.600	64.35	33.29	97.64	54.00	43.64	AVG	No Limit
2	X	2458.800	74.67	33.30	107.97	74.00	33.97	peak	No Limit
3		2483.500	29.90	33.40	63.30	74.00	-10.70	peak	
4		2483.500	19.55	33.40	52.95	54.00	-1.05	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

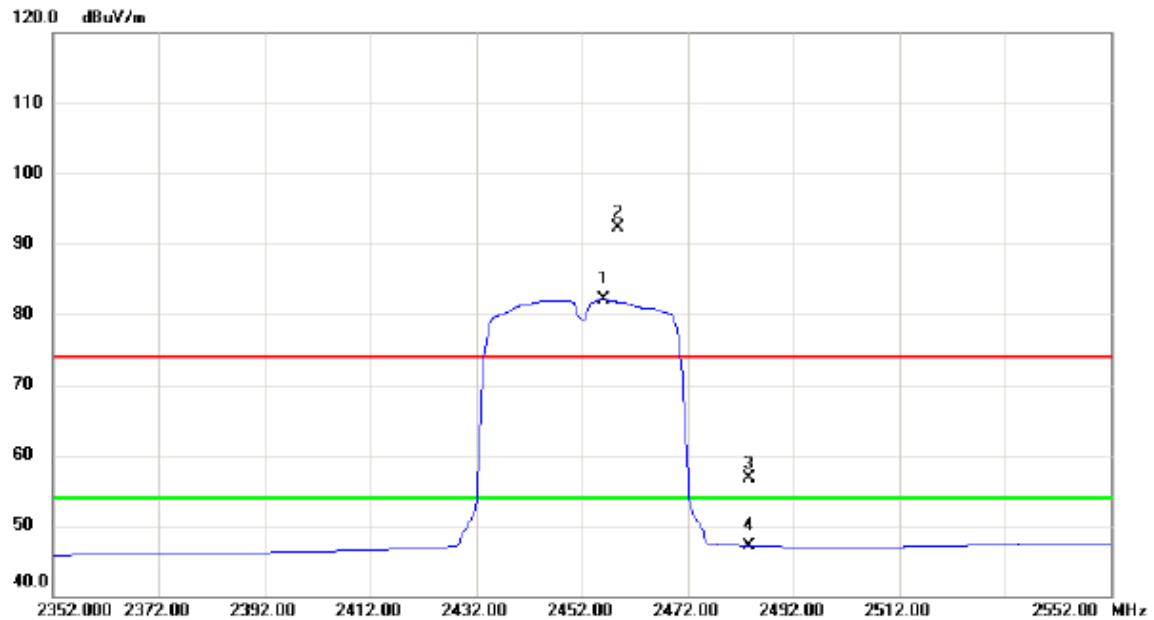
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4904.350	23.34	5.19	28.53	54.00	-25.47	AVG	
2		4904.260	35.30	5.19	40.49	74.00	-33.51	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

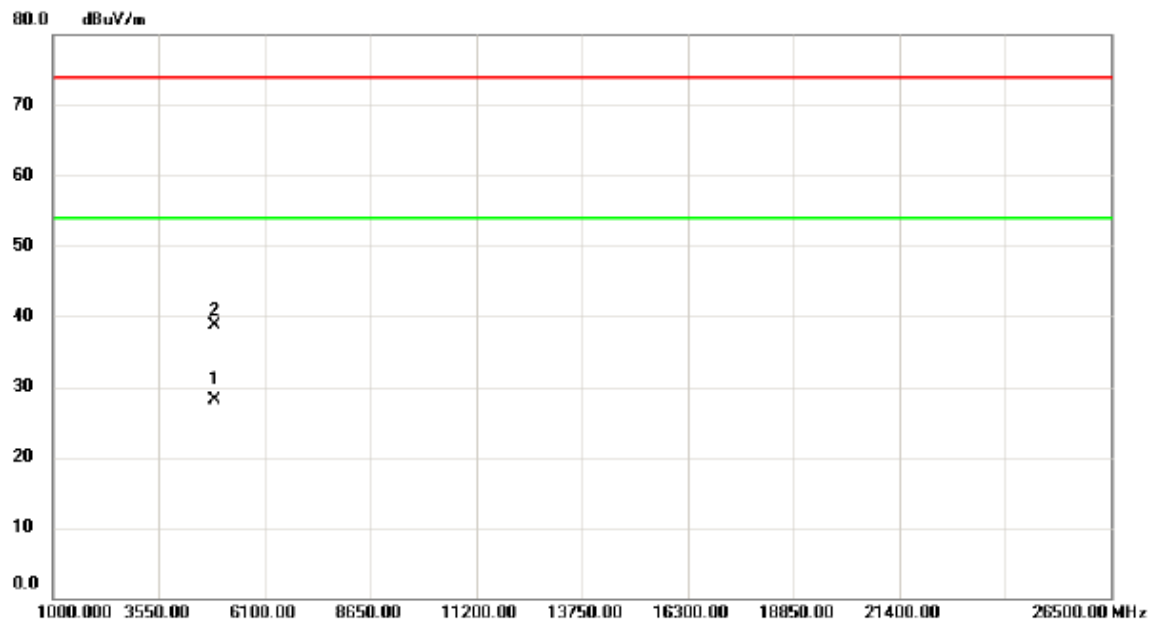
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.200	48.76	33.29	82.05	54.00	28.05	AVG	No Limit
2	X	2458.800	59.05	33.30	92.35	74.00	18.35	peak	No Limit
3		2483.500	23.35	33.40	56.75	74.00	-17.25	peak	
4		2483.500	13.76	33.40	47.16	54.00	-6.84	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2452MHz

Horizontal



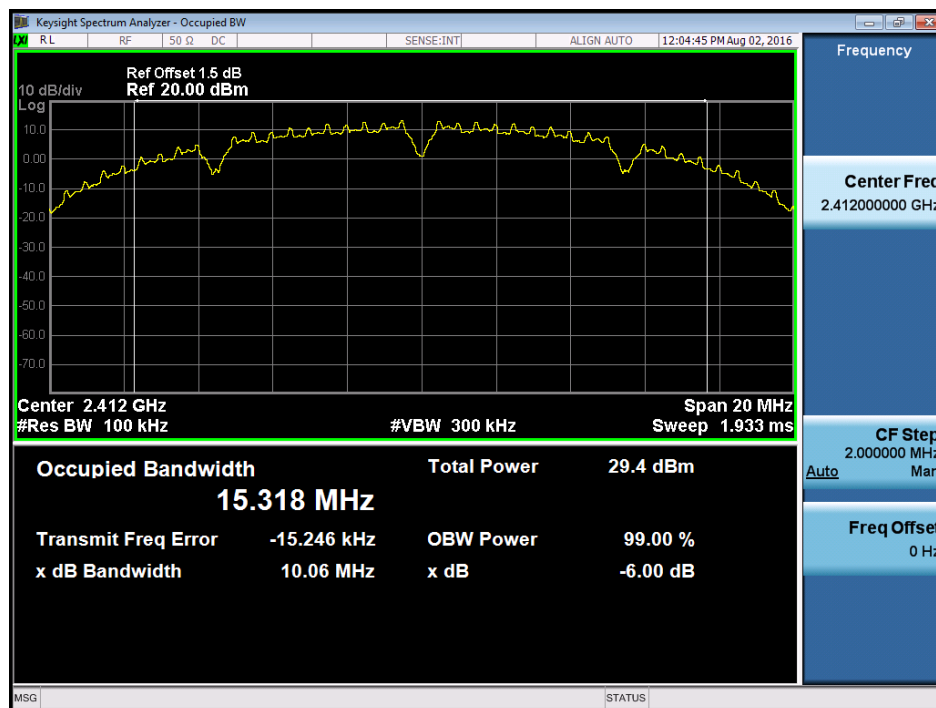
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4903.650	22.83	5.19	28.02	54.00	-25.98	AVG	
2		4904.250	33.46	5.19	38.65	74.00	-35.35	peak	

ATTACHMENT E - BANDWIDTH

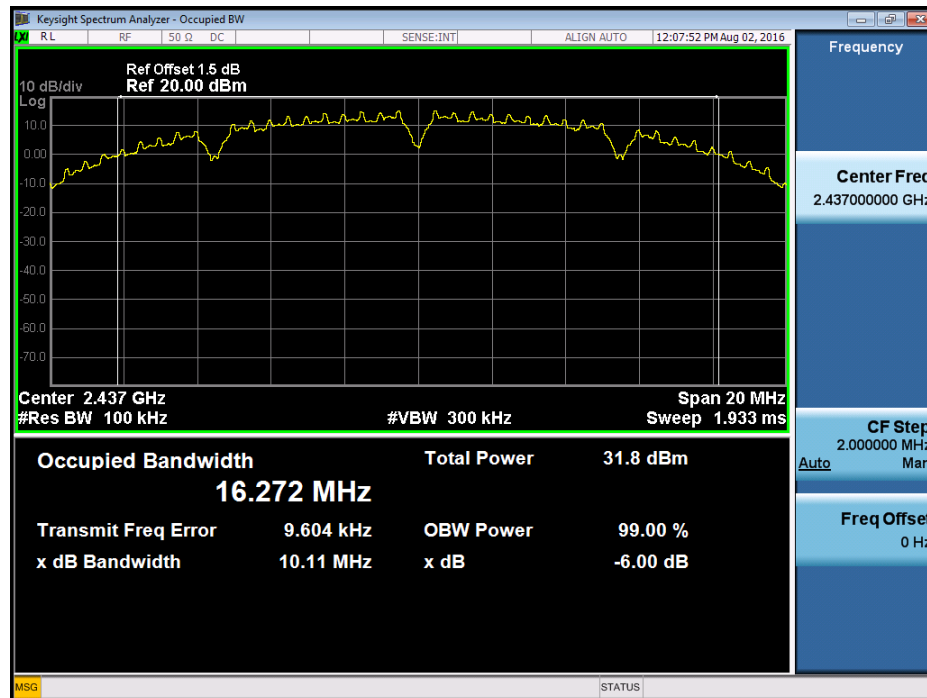
Test Mode : TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.06	15.32	500	Complies
2437	10.11	16.27	500	Complies
2462	10.06	15.38	500	Complies

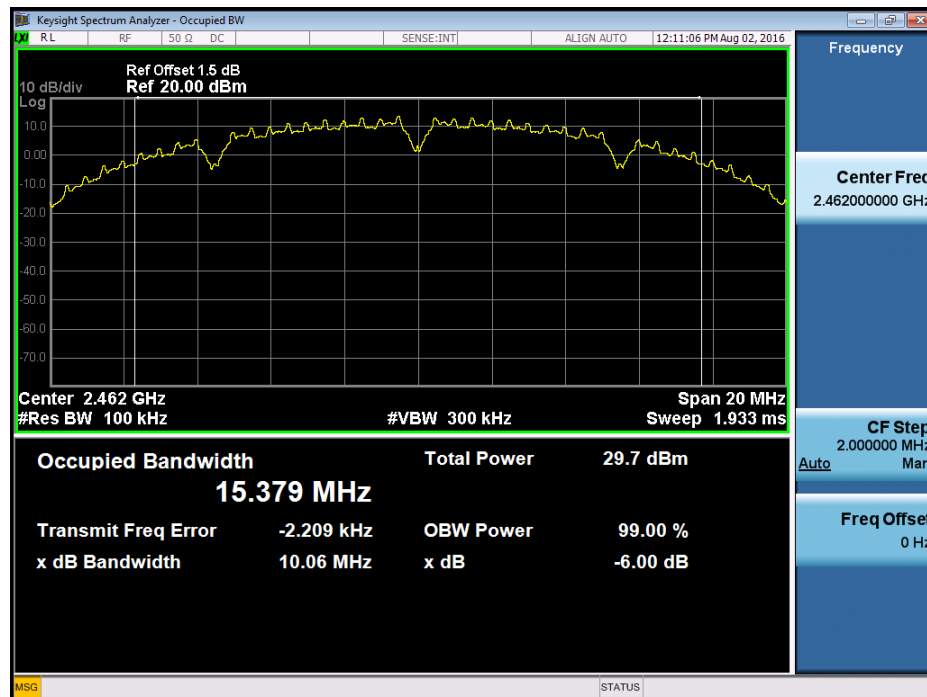
TX CH01



TX CH06



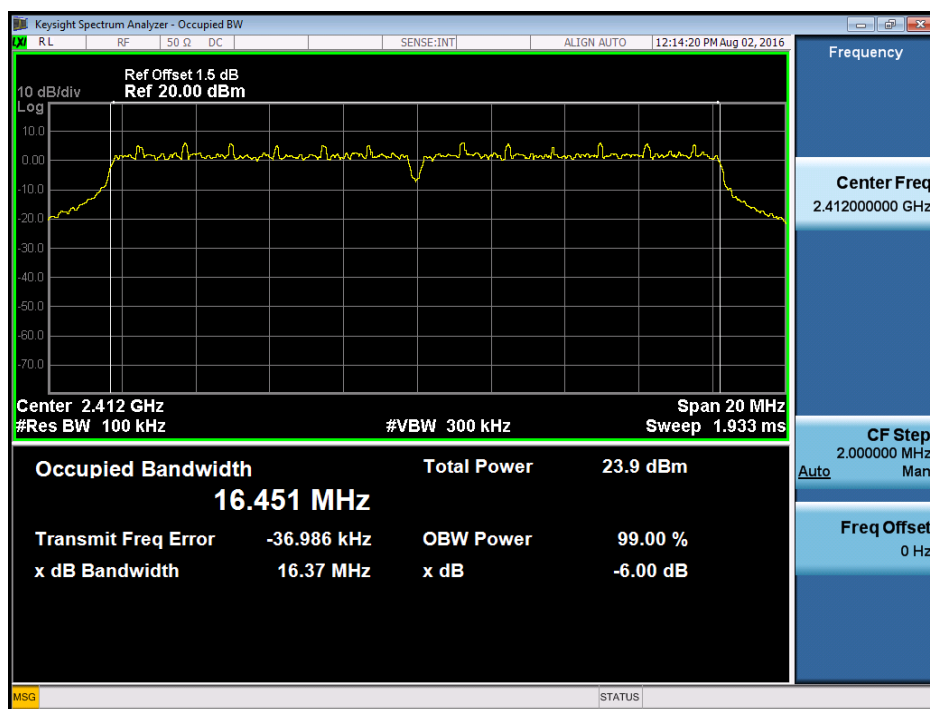
TX CH11



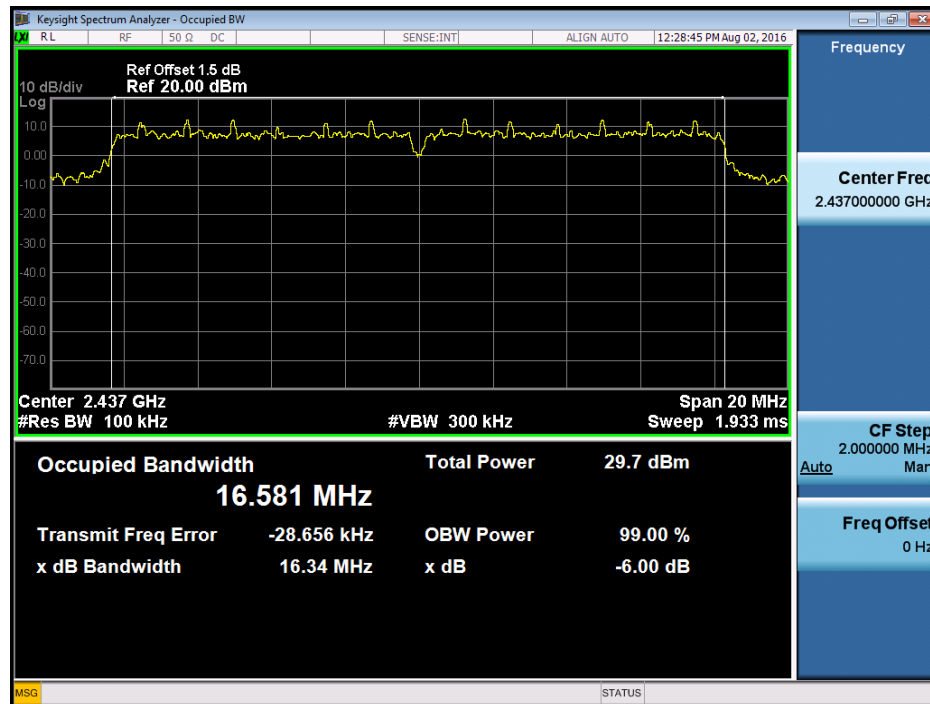
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.37	16.45	500	Complies
2437	16.34	16.58	500	Complies
2462	16.37	16.45	500	Complies

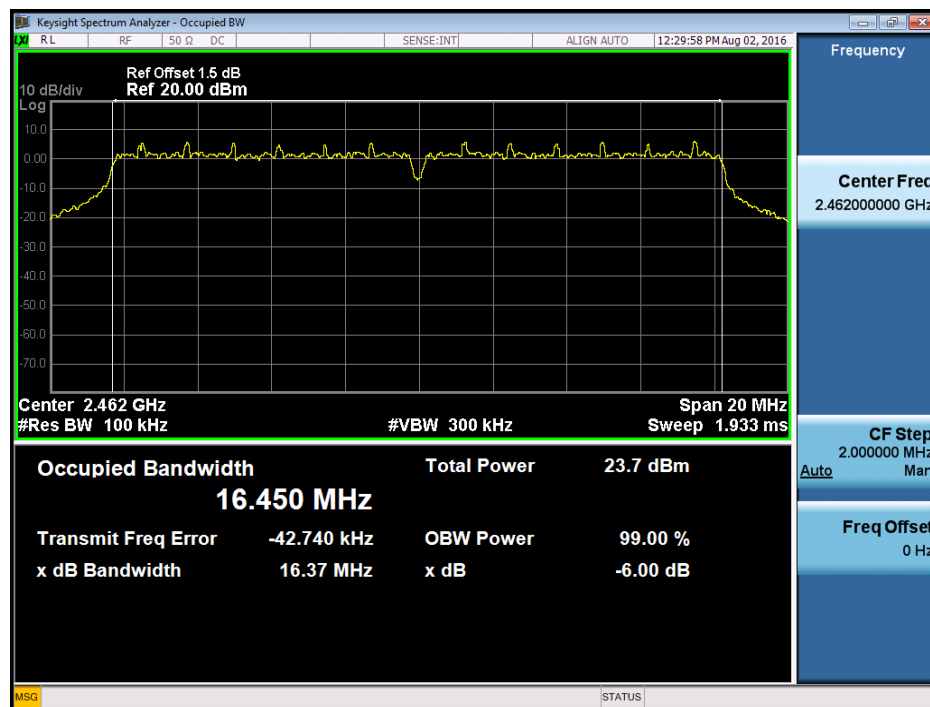
TX CH01



TX CH06



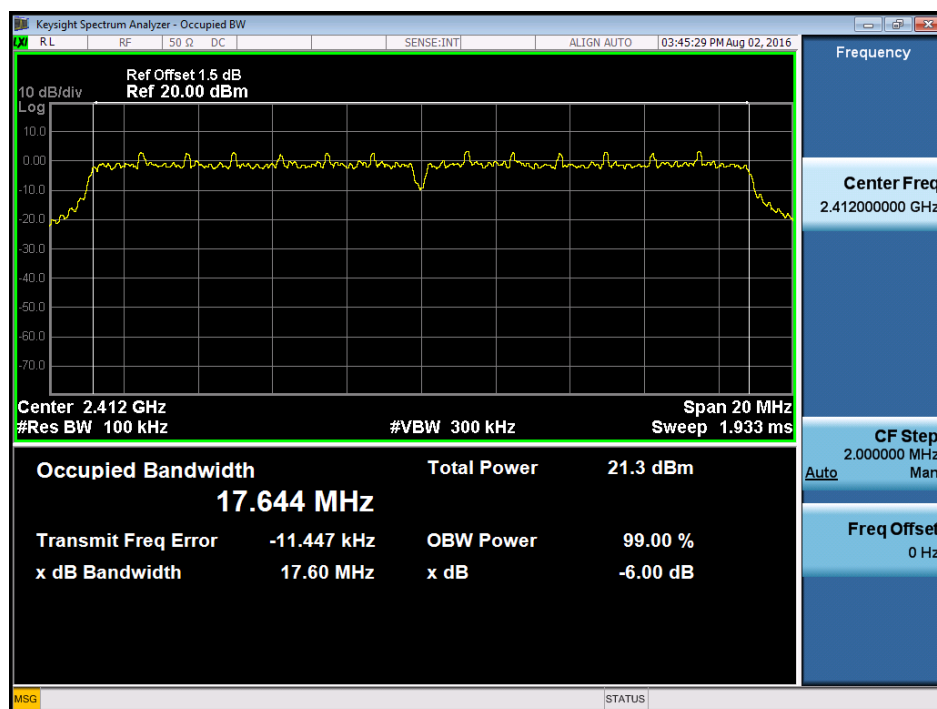
TX CH11



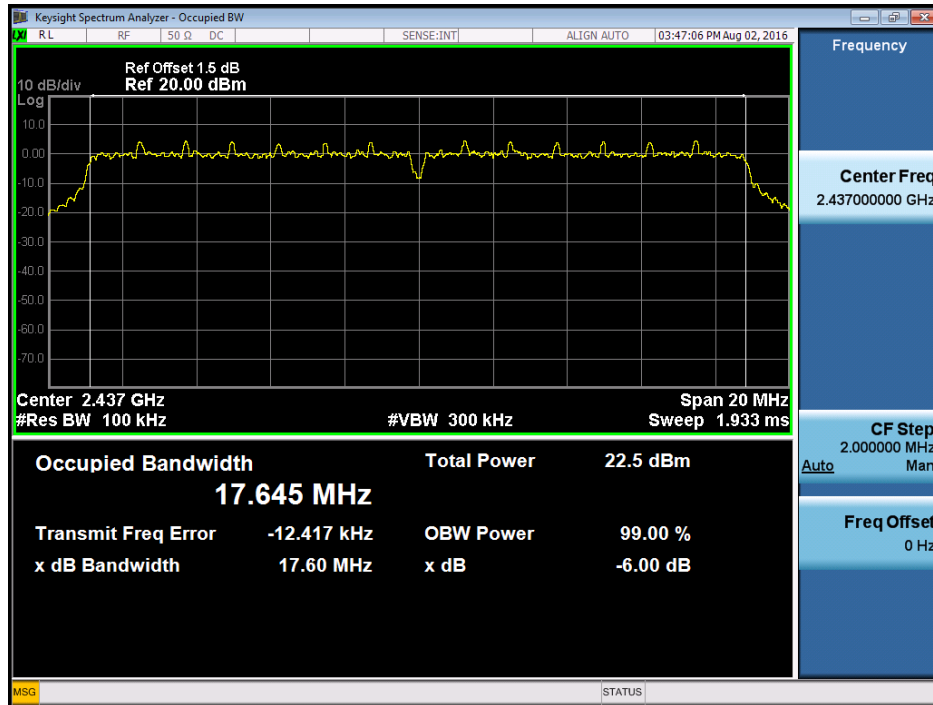
Test Mode : TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.60	17.64	500	Complies
2437	17.60	17.64	500	Complies
2462	17.59	17.64	500	Complies

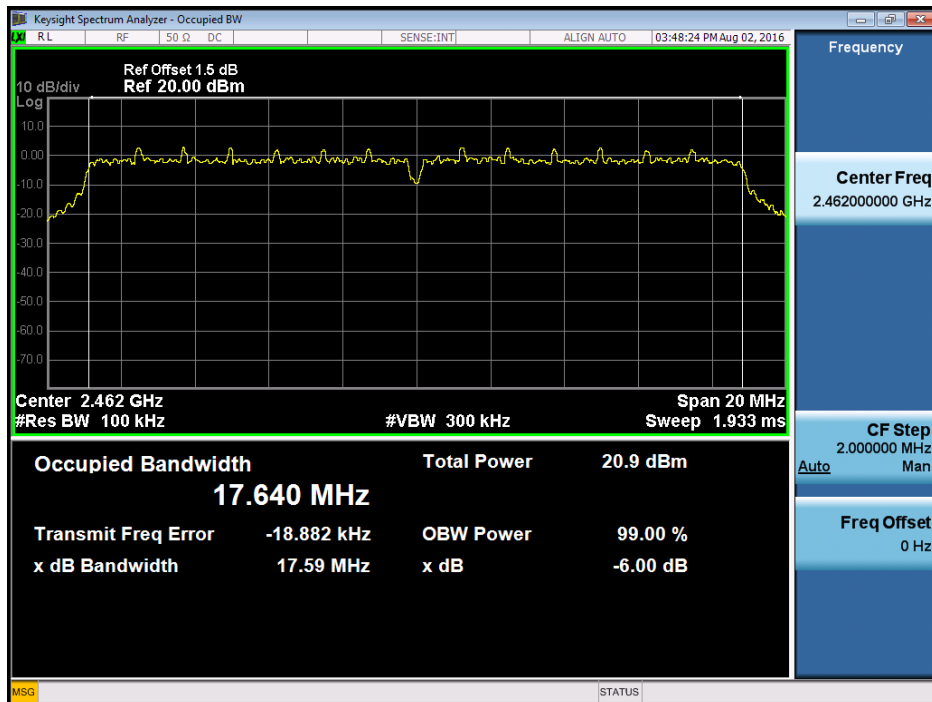
TX CH01



TX CH06



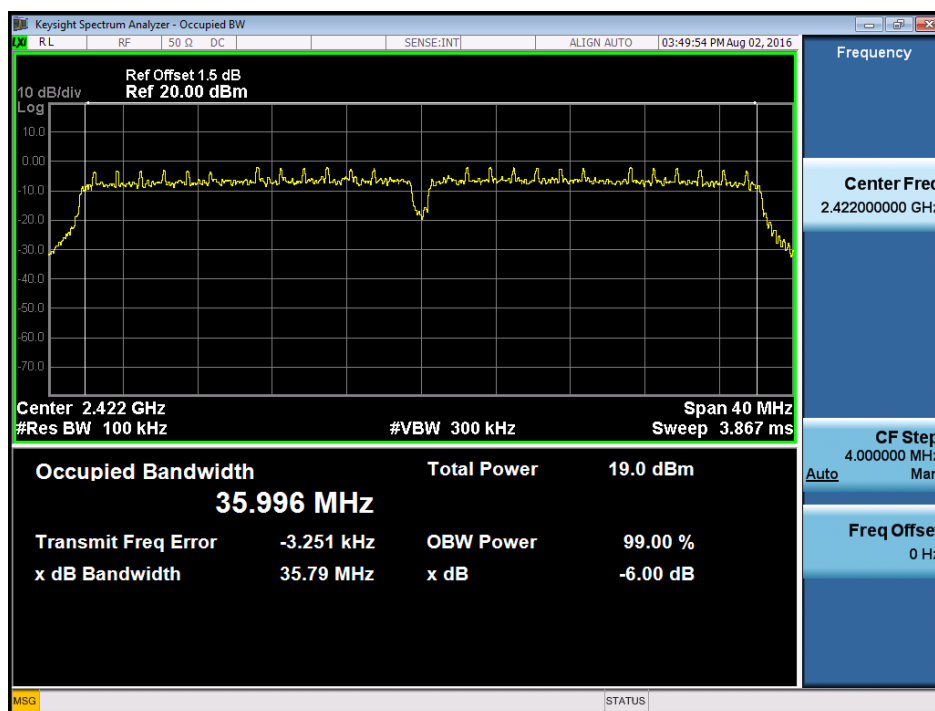
TX CH11



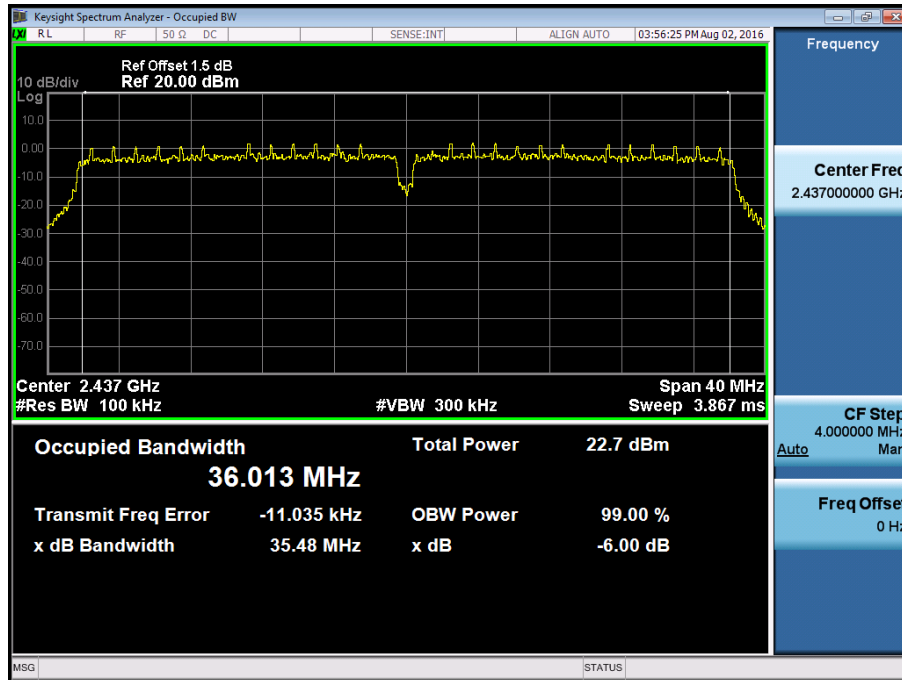
Test Mode : TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.79	35.99	500	Complies
2437	35.48	36.01	500	Complies
2452	35.75	35.99	500	Complies

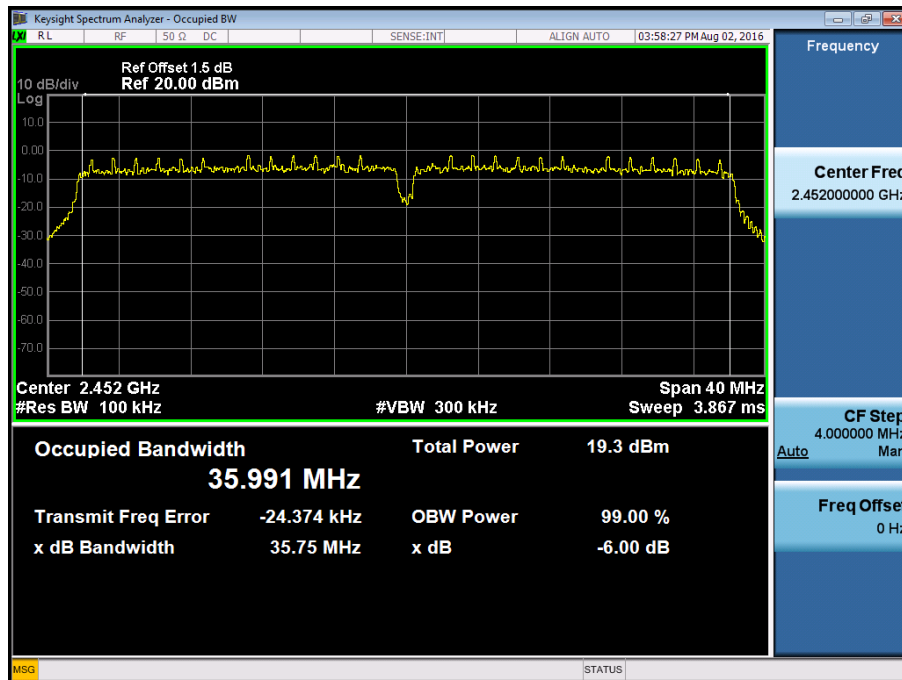
TX CH03



TX CH06



TX CH09



ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	25.11	0.32	30.00	1.00	Complies
2437	27.17	0.52	30.00	1.00	Complies
2462	26.26	0.42	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	26.77	0.48	30.00	1.00	Complies
2437	28.39	0.69	30.00	1.00	Complies
2462	26.91	0.49	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.88	0.31	30.00	1.00	Complies
2437	26.04	0.40	30.00	1.00	Complies
2462	24.16	0.26	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.92	0.31	30.00	1.00	Complies
2437	26.02	0.40	30.00	1.00	Complies
2462	24.21	0.26	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	27.91	0.62	30.00	1.00	Complies
2437	29.04	0.80	30.00	1.00	Complies
2462	27.20	0.52	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.74	0.15	30.00	1.00	Complies
2437	26.08	0.41	30.00	1.00	Complies
2452	21.91	0.16	30.00	1.00	Complies

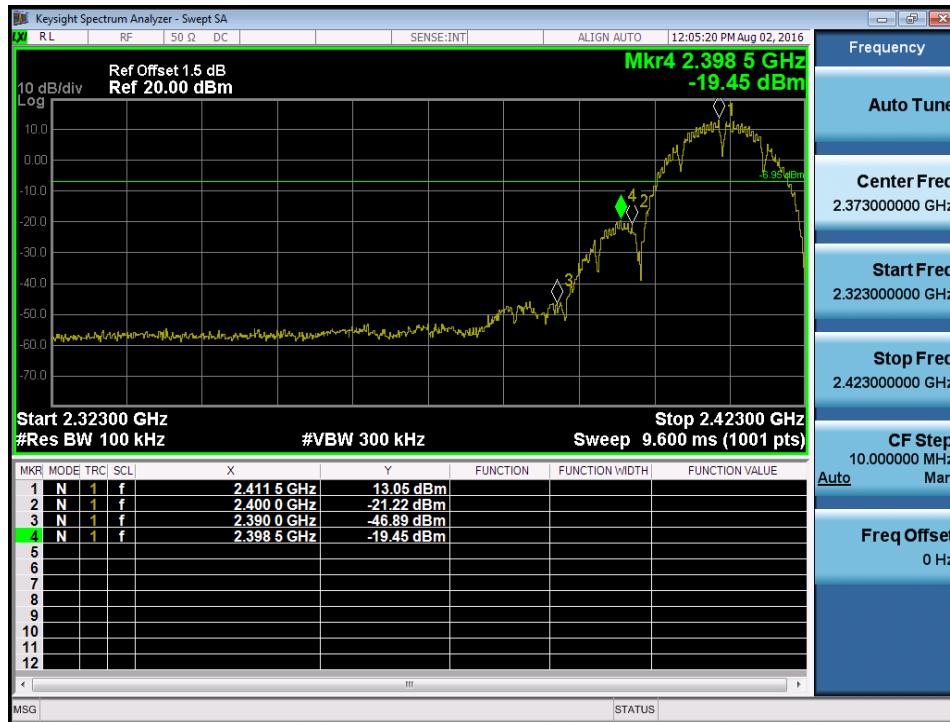
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.49	0.18	30.00	1.00	Complies
2437	26.23	0.42	30.00	1.00	Complies
2452	22.41	0.17	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	25.14	0.33	30.00	1.00	Complies
2437	29.17	0.83	30.00	1.00	Complies
2452	25.18	0.33	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

Test Mode : TX B Mode

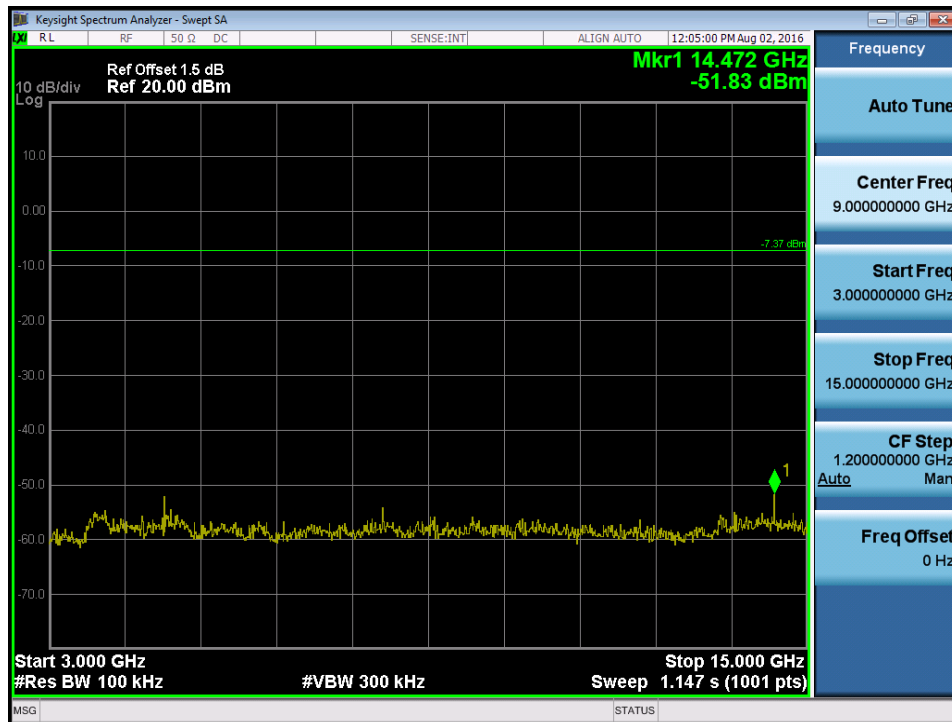
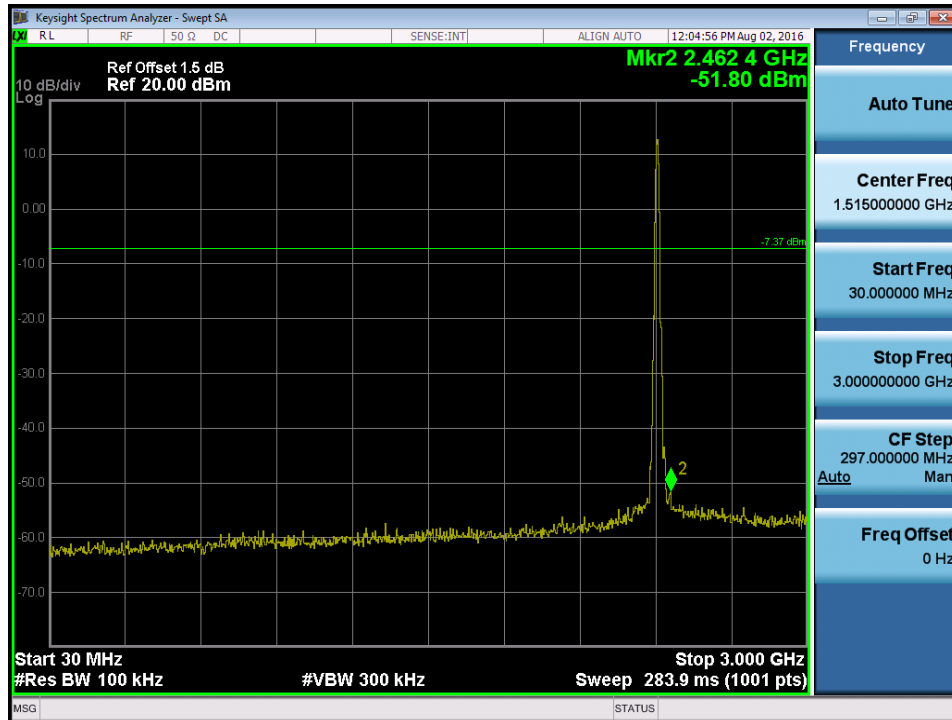
TX B mode CH01

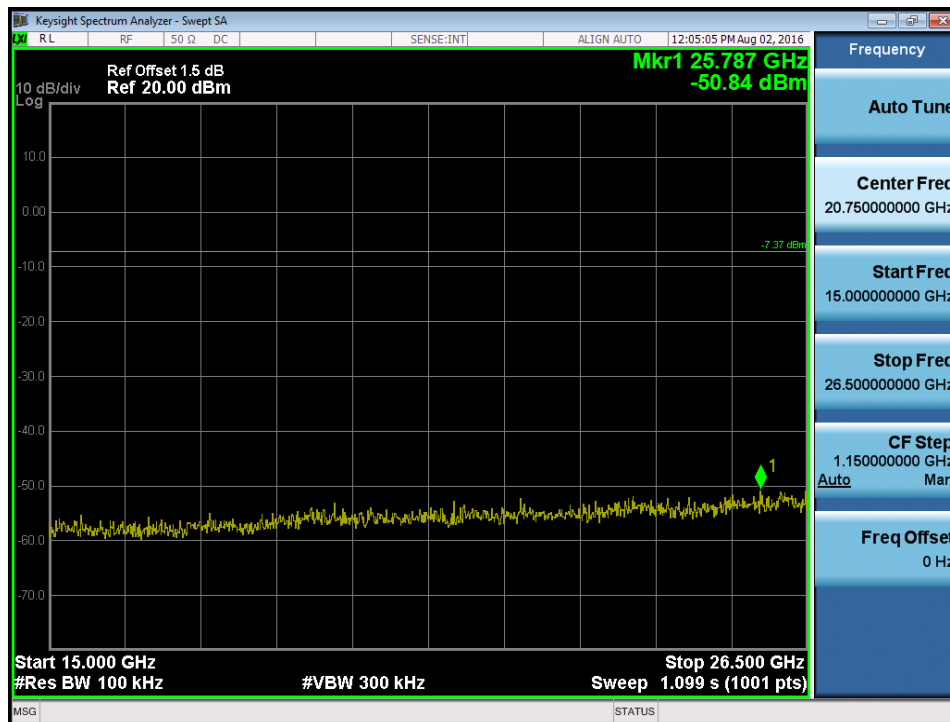


TX B mode CH11

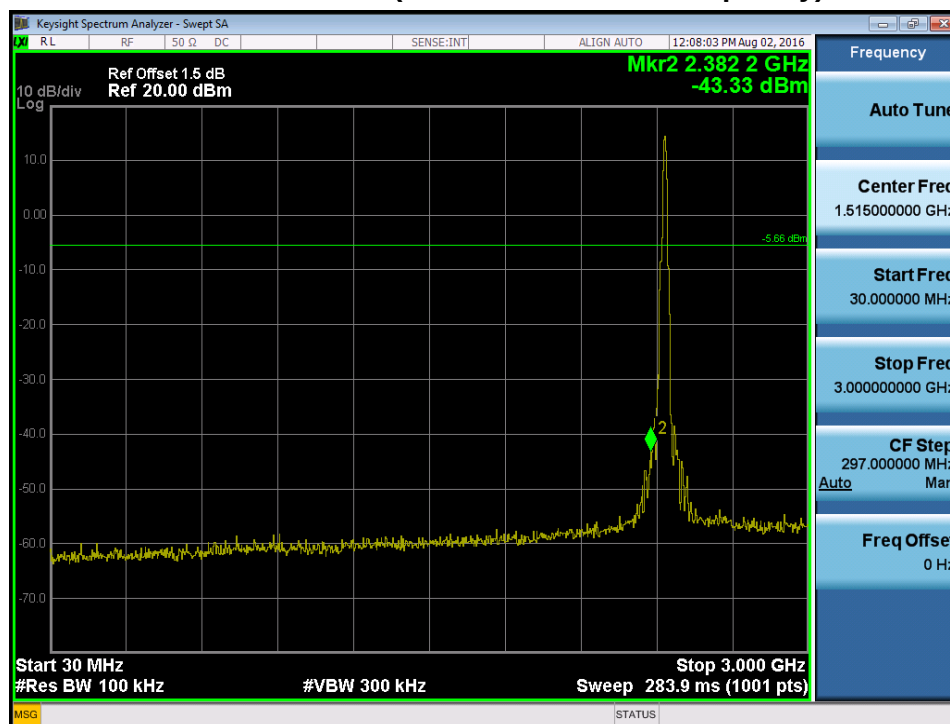


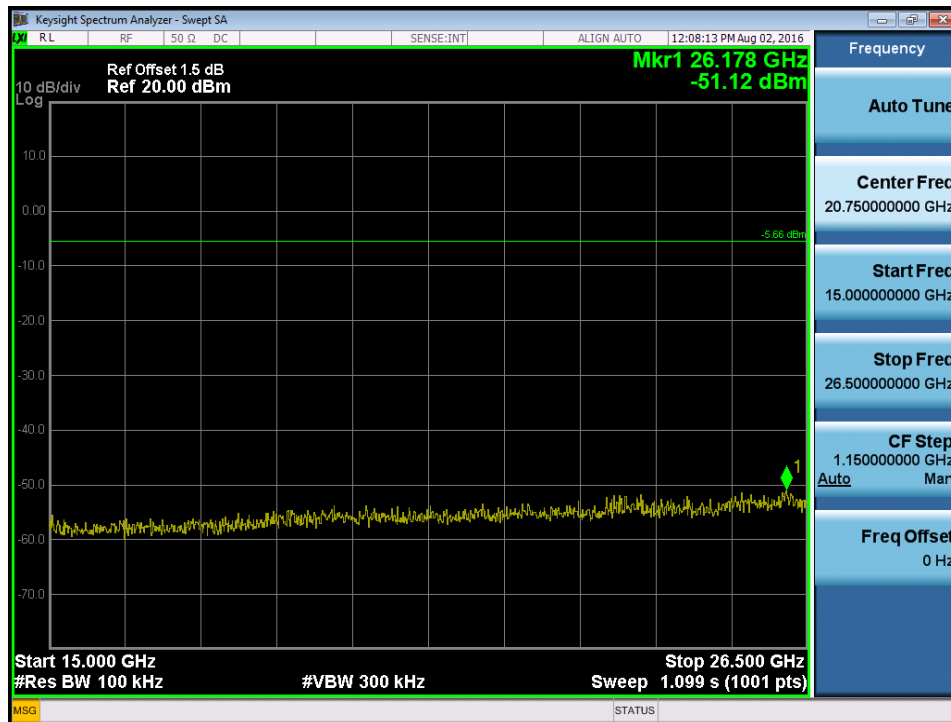
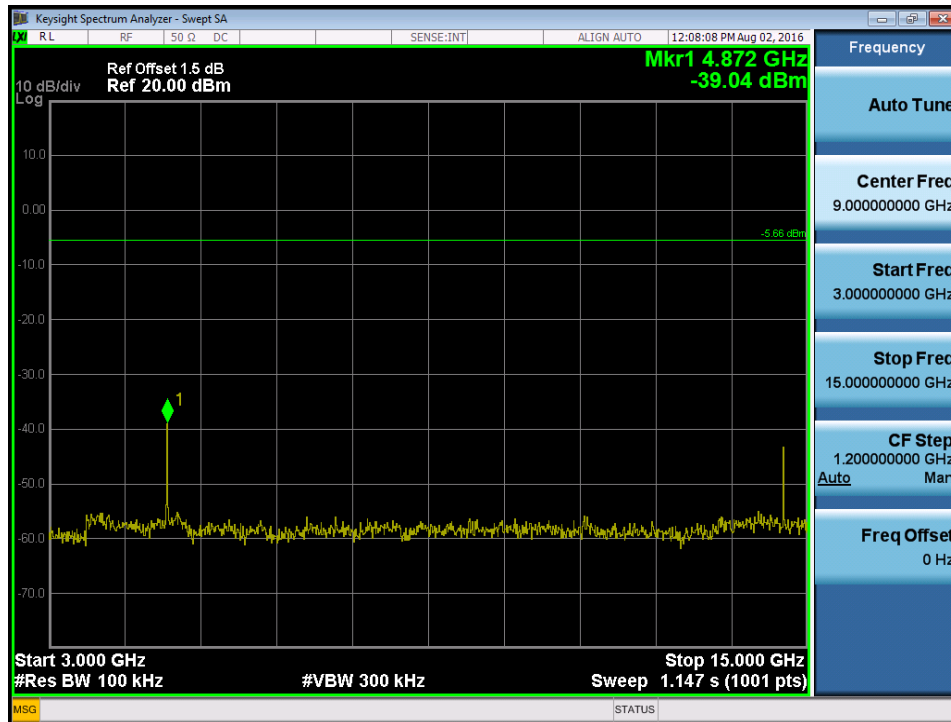
TX B mode CH01 (10 Harmonic of the frequency)



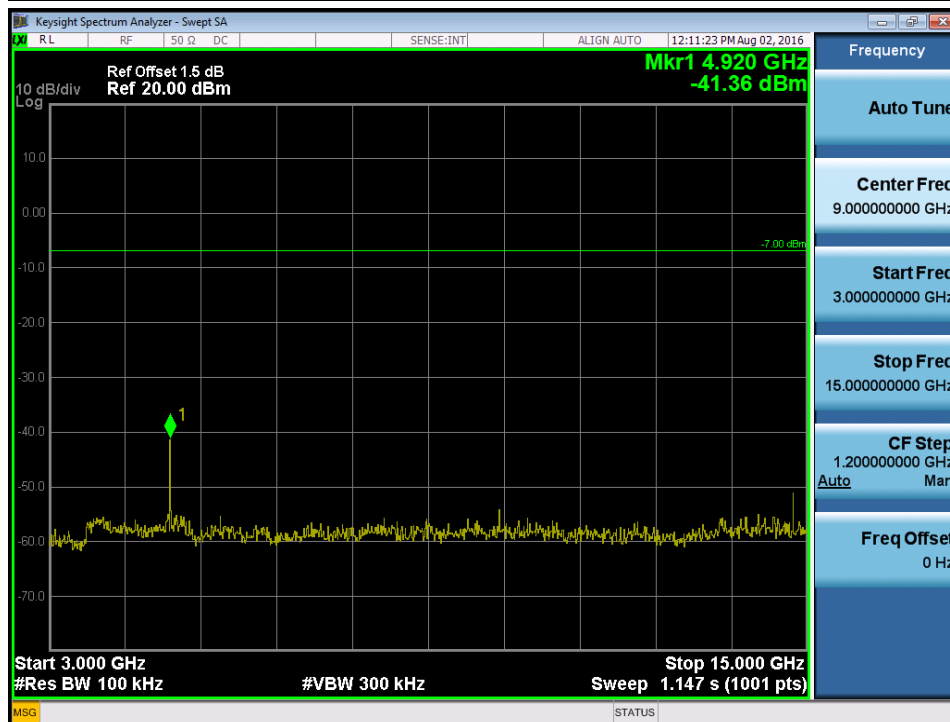
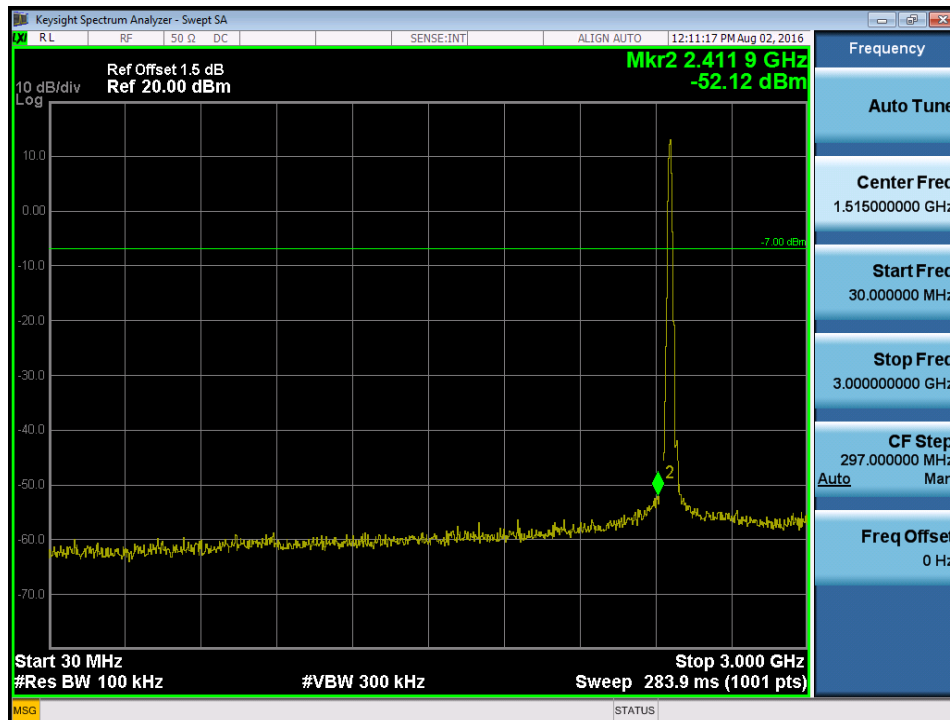


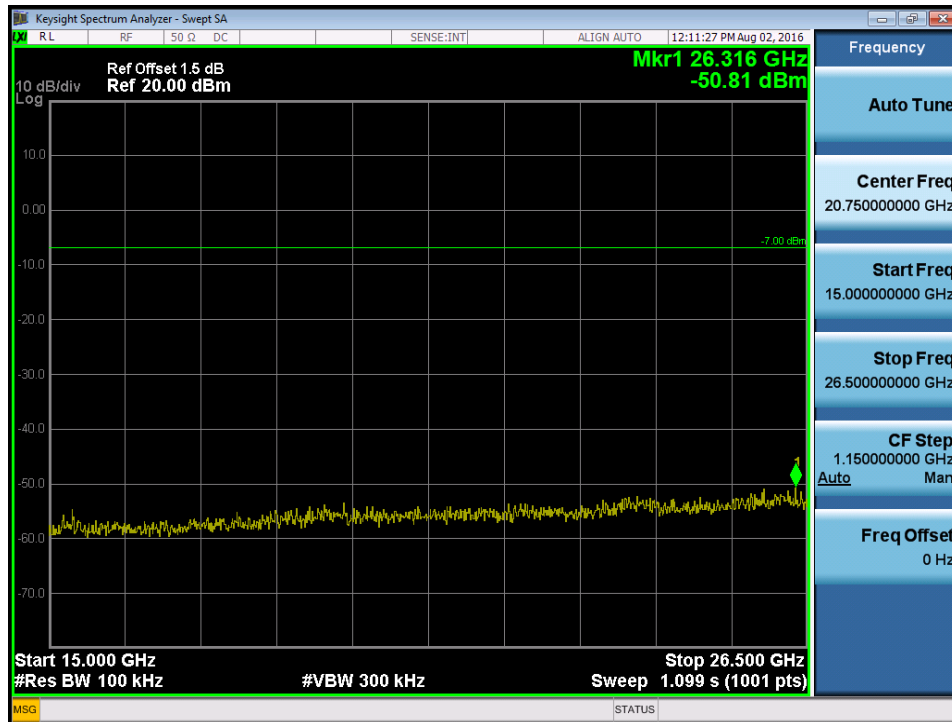
TX B mode CH06 (10 Harmonic of the frequency)





TX B mode CH11 (10 Harmonic of the frequency)





Test Mode : TX G Mode

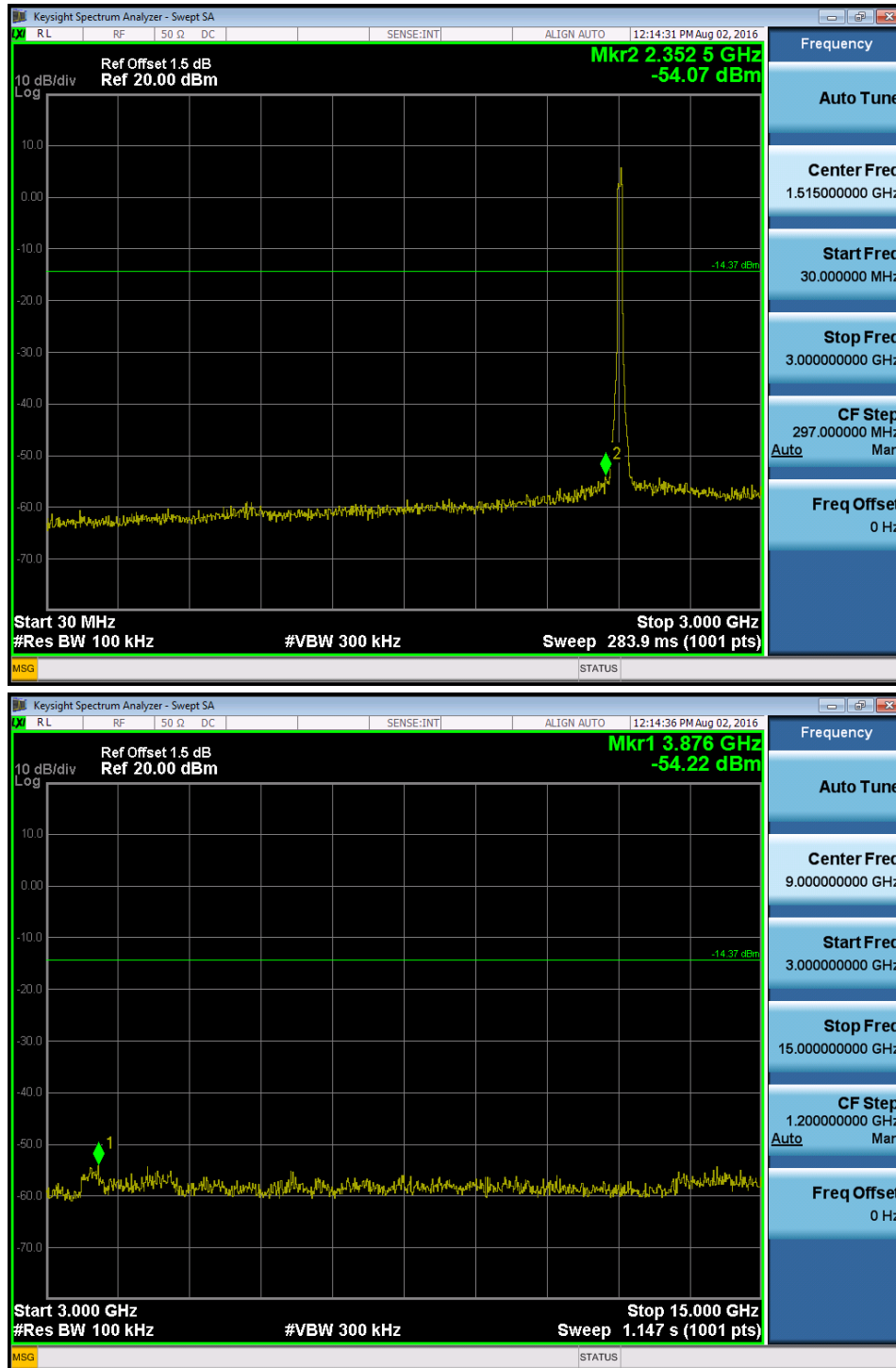
TX G mode CH01

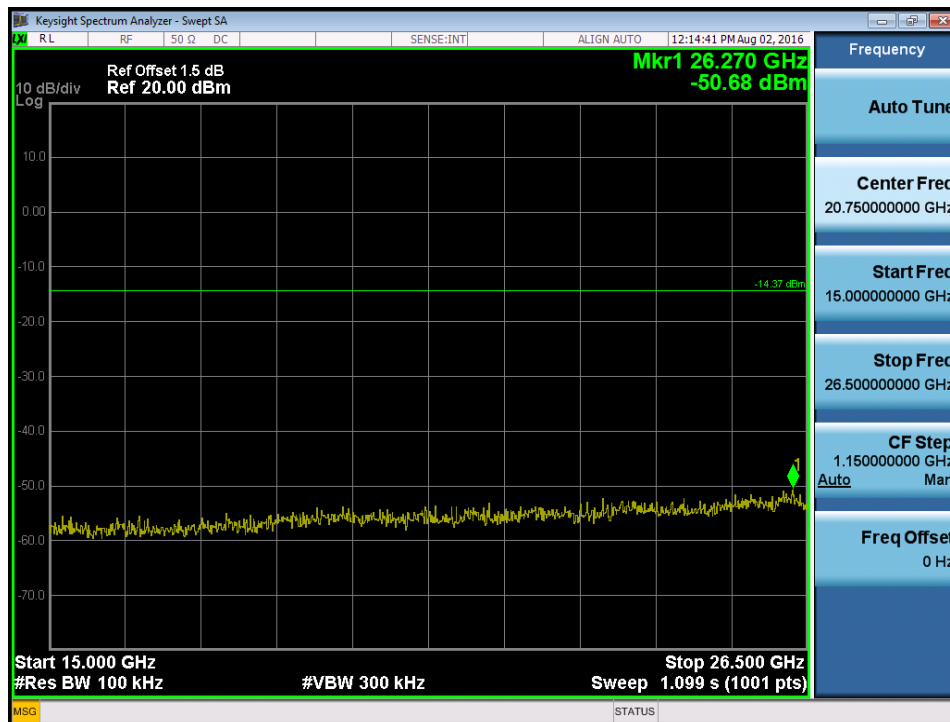


TX G mode CH11

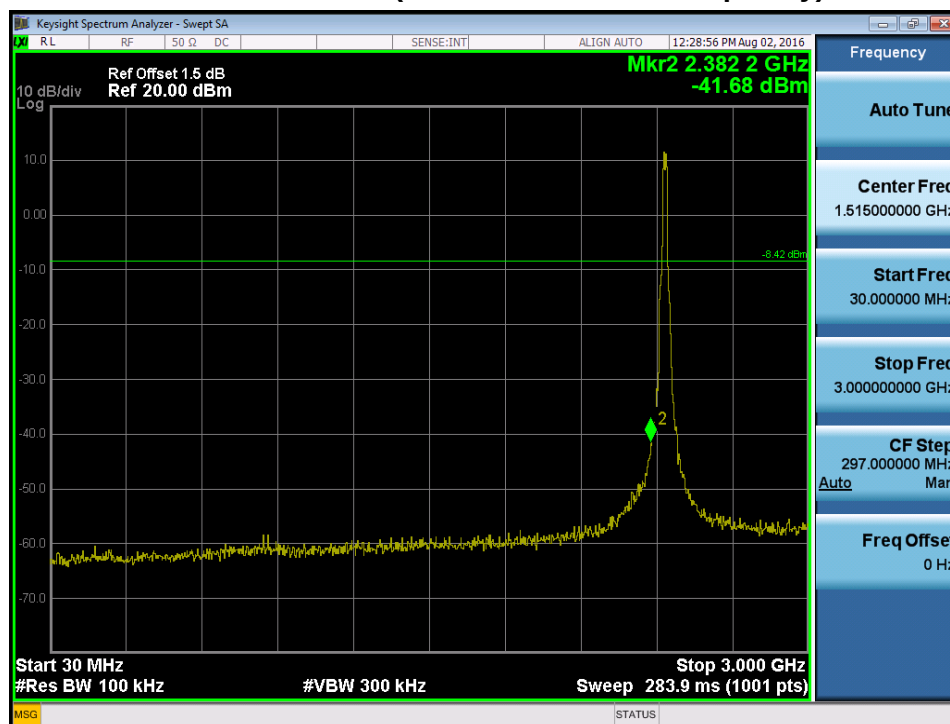


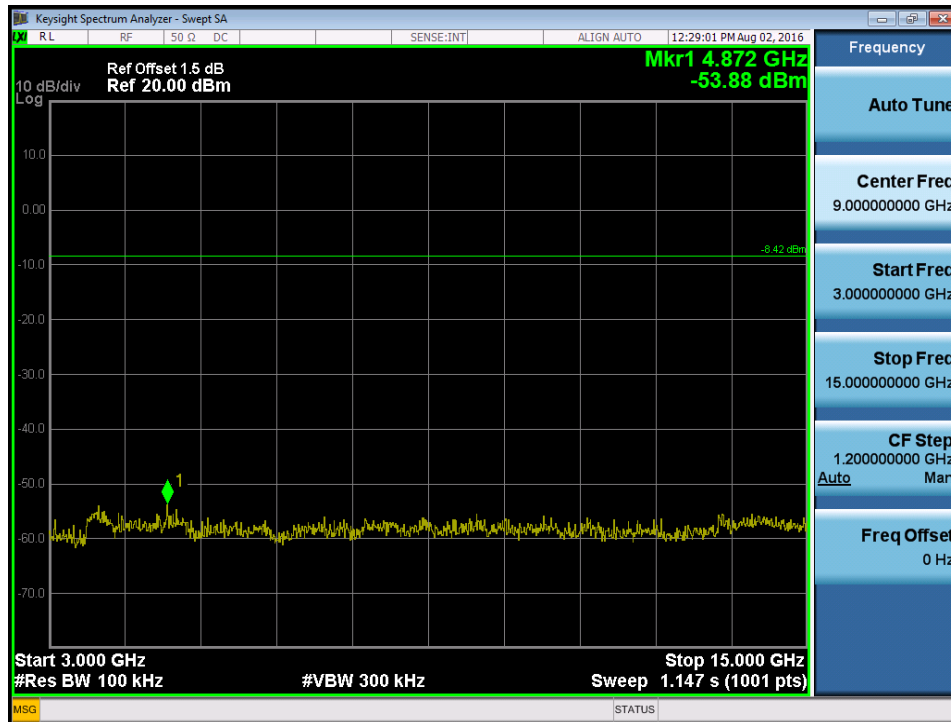
TX G mode CH01 (10 Harmonic of the frequency)



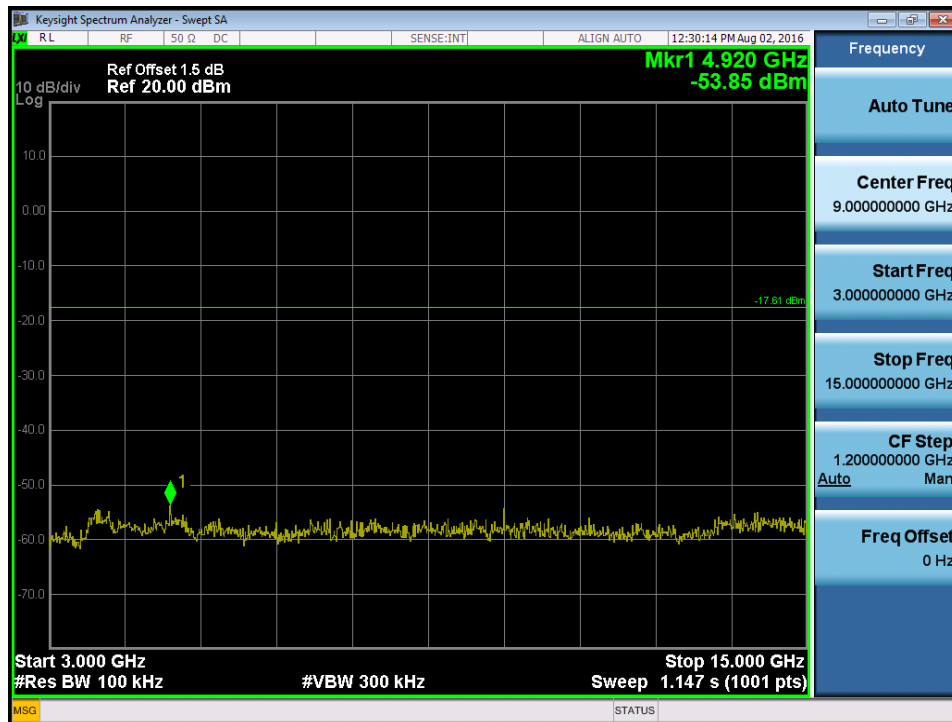
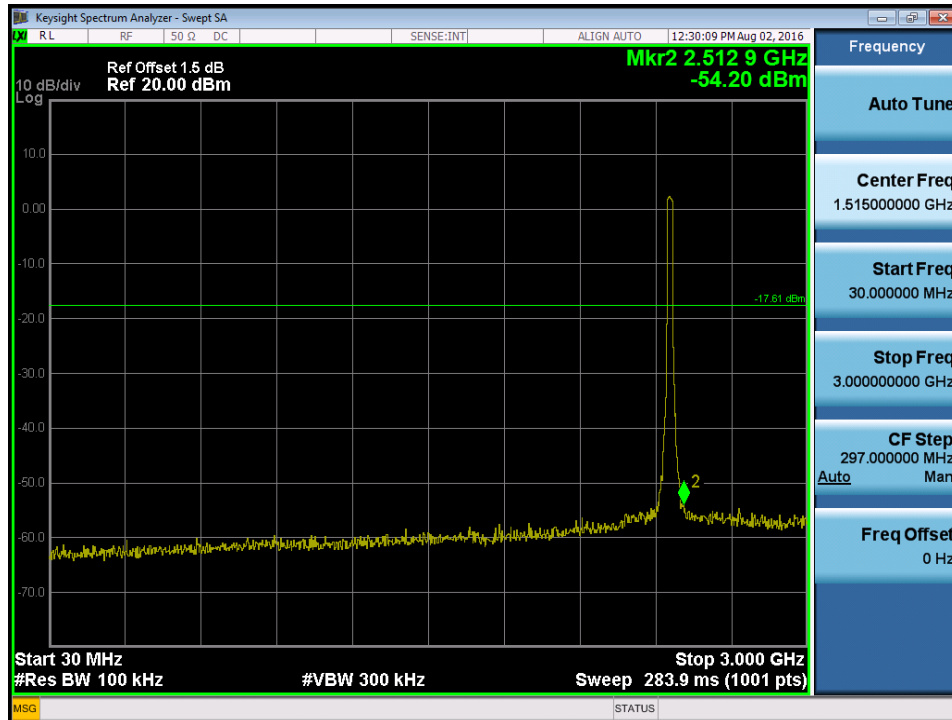


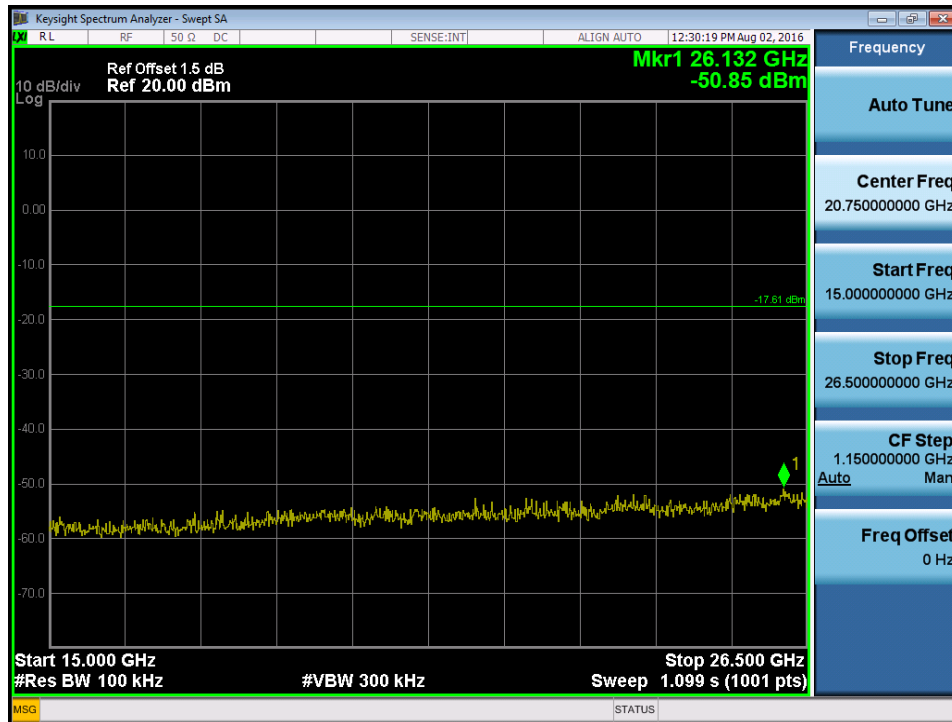
TX G mode CH06 (10 Harmonic of the frequency)





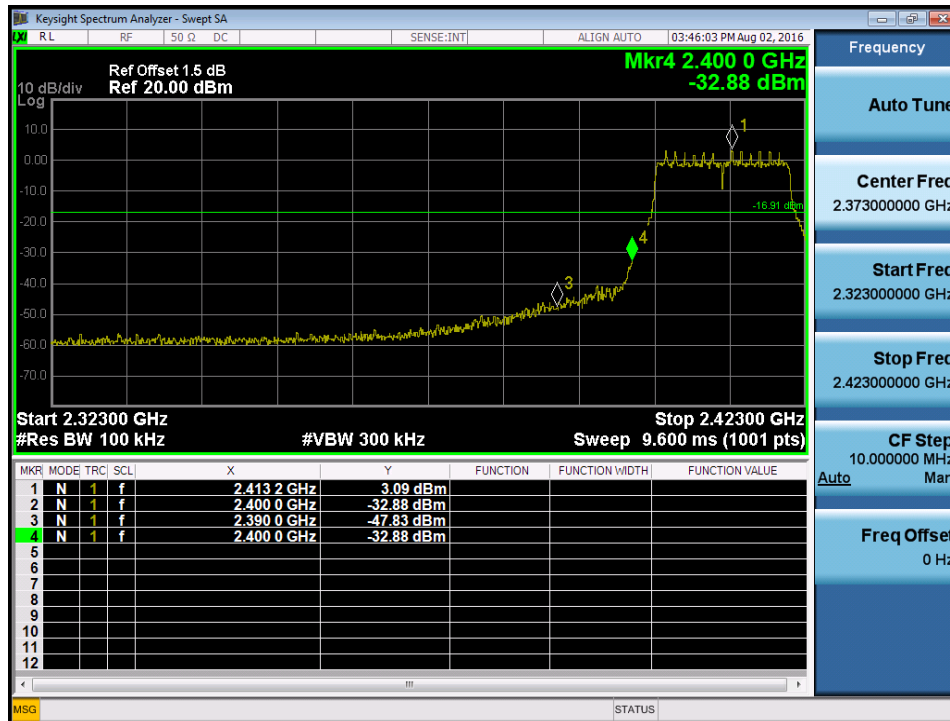
TX G mode CH11 (10 Harmonic of the frequency)



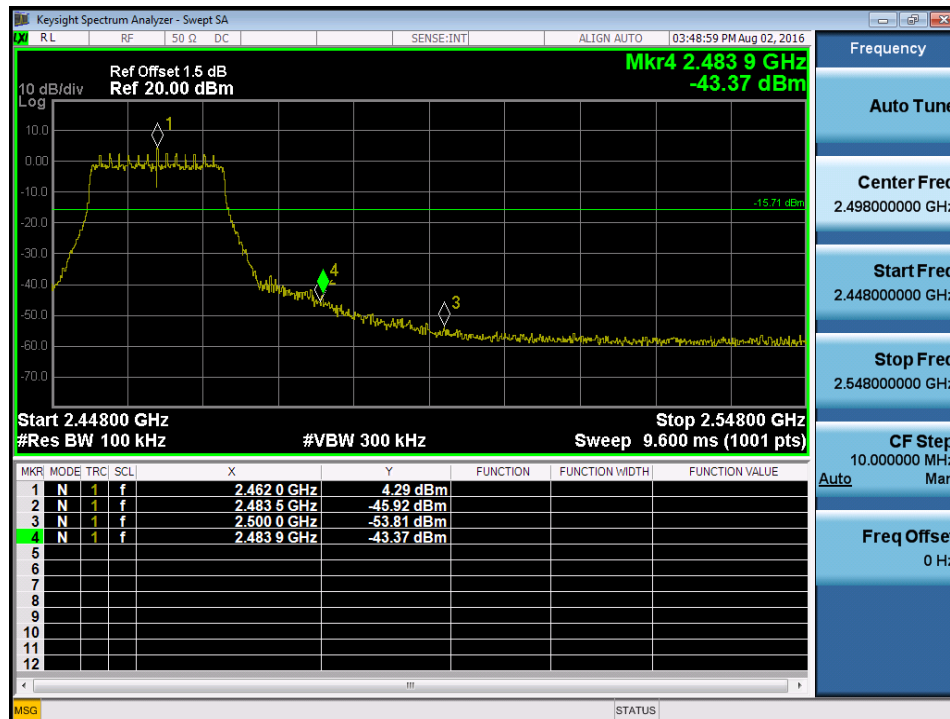


Test Mode : TX N-20M Mode_ANT 1

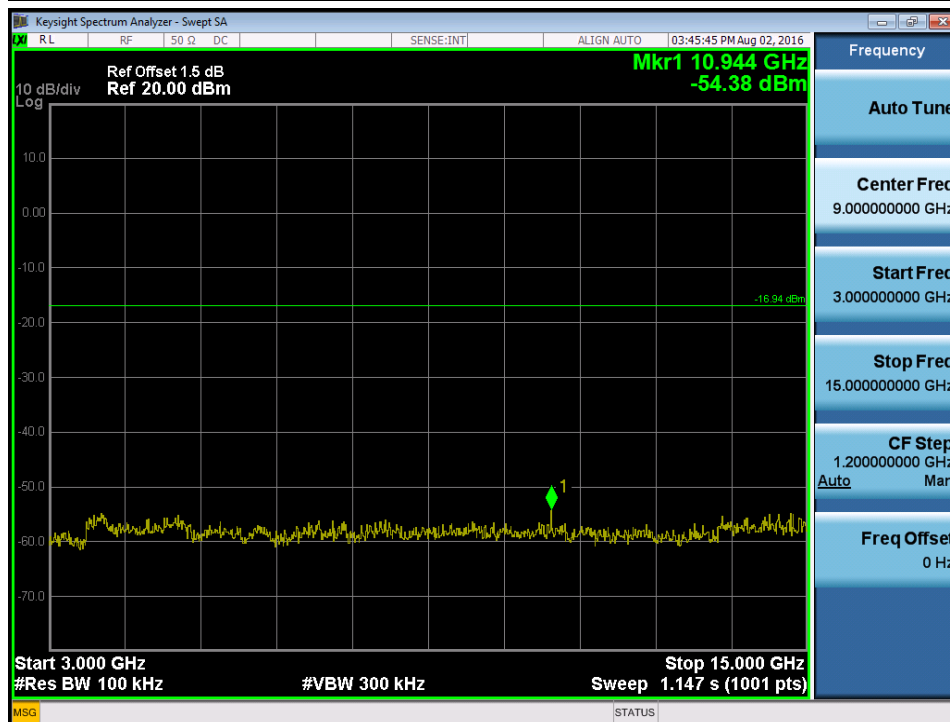
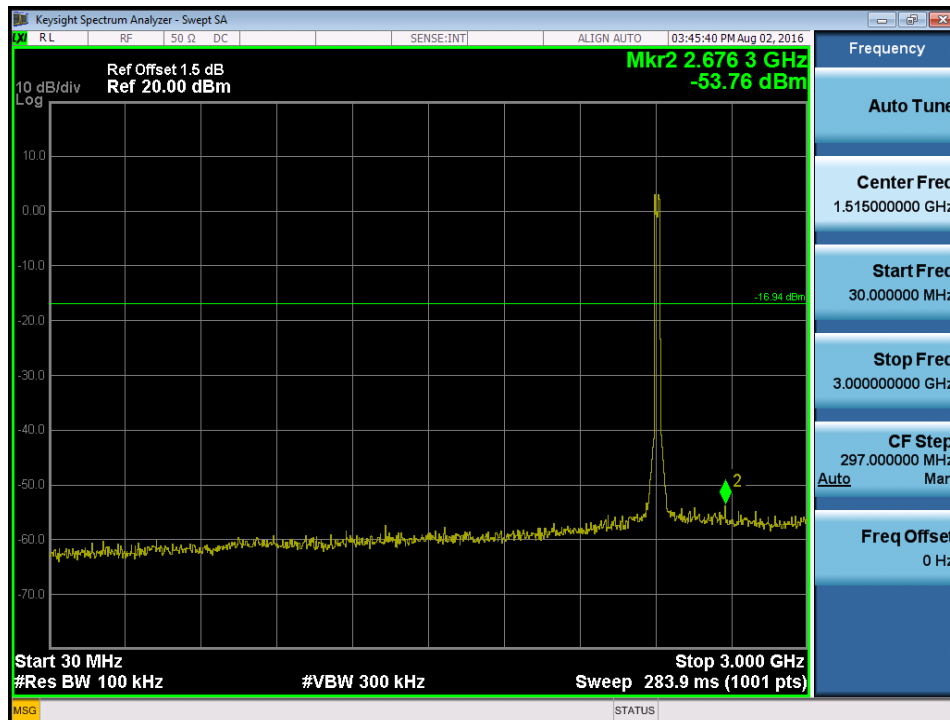
TX HT20 mode CH01

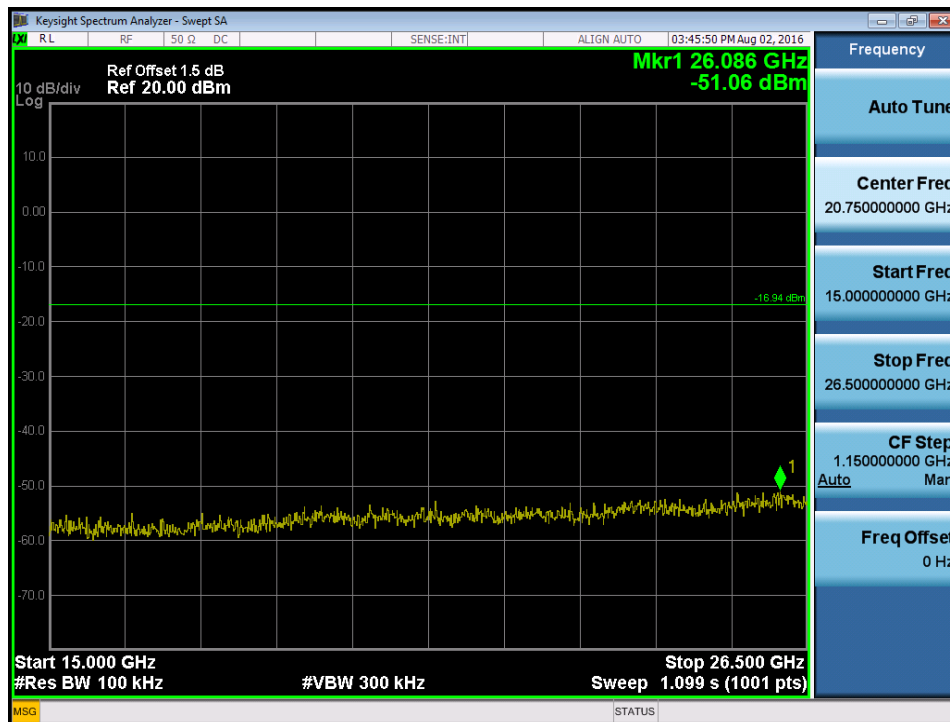


TX HT20 mode CH11

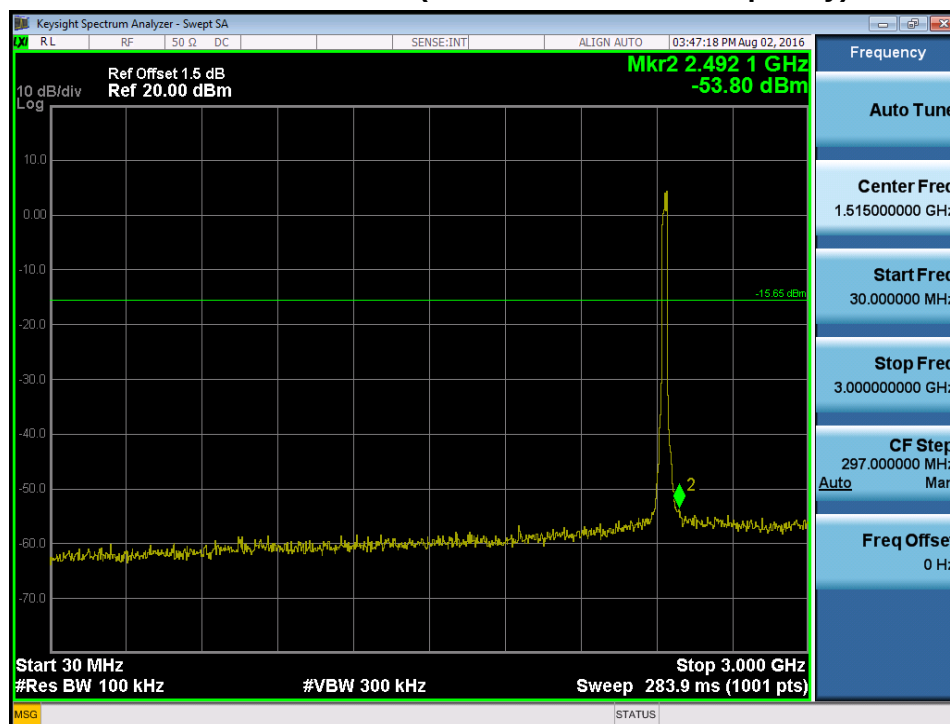


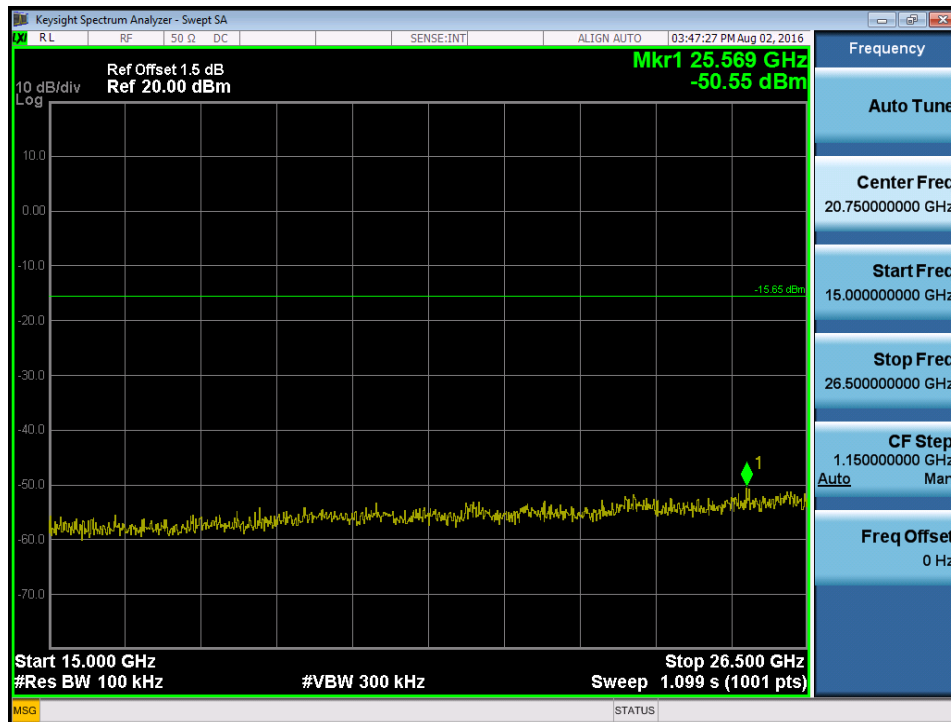
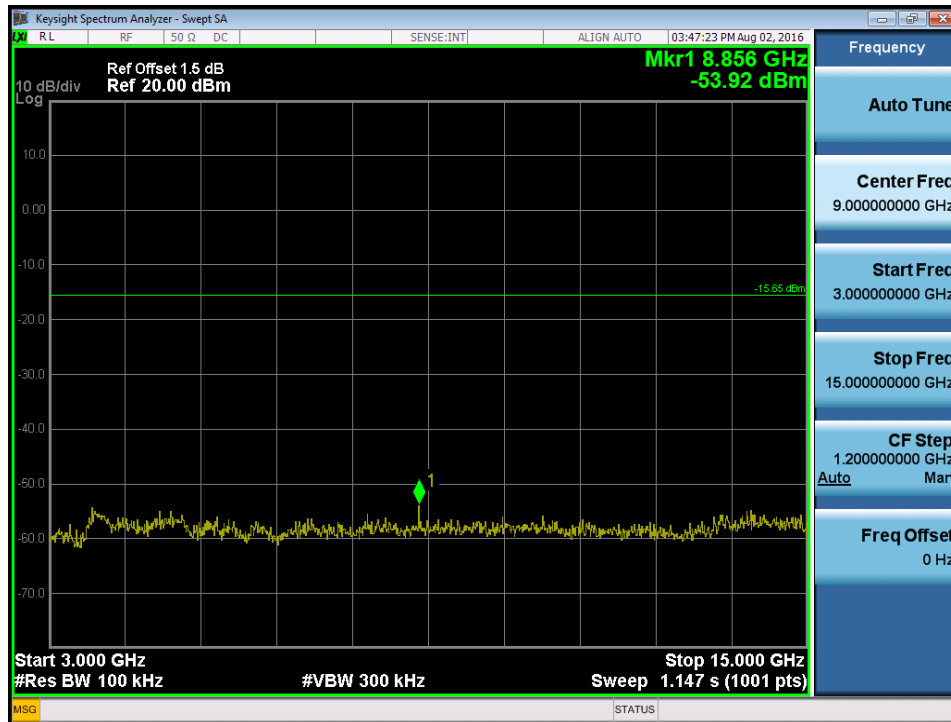
TX HT20 mode CH01 (10 Harmonic of the frequency)



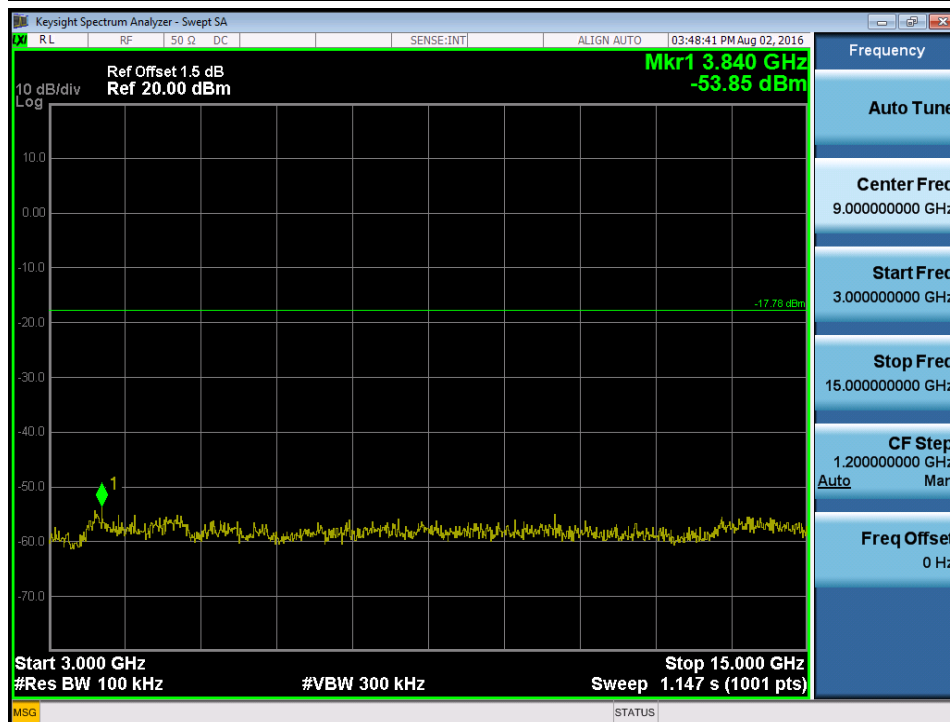
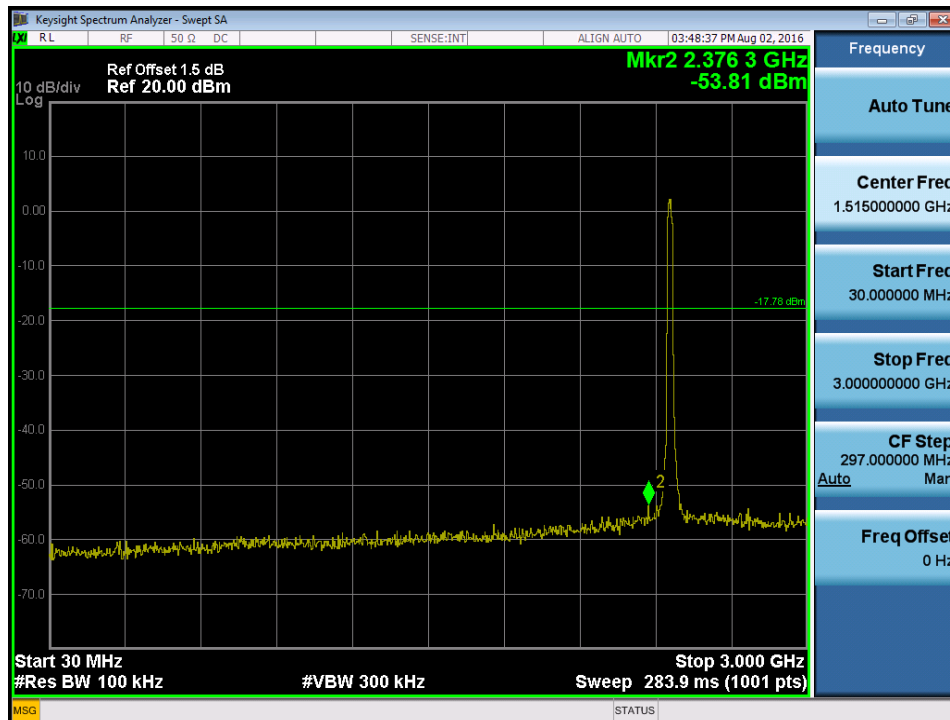


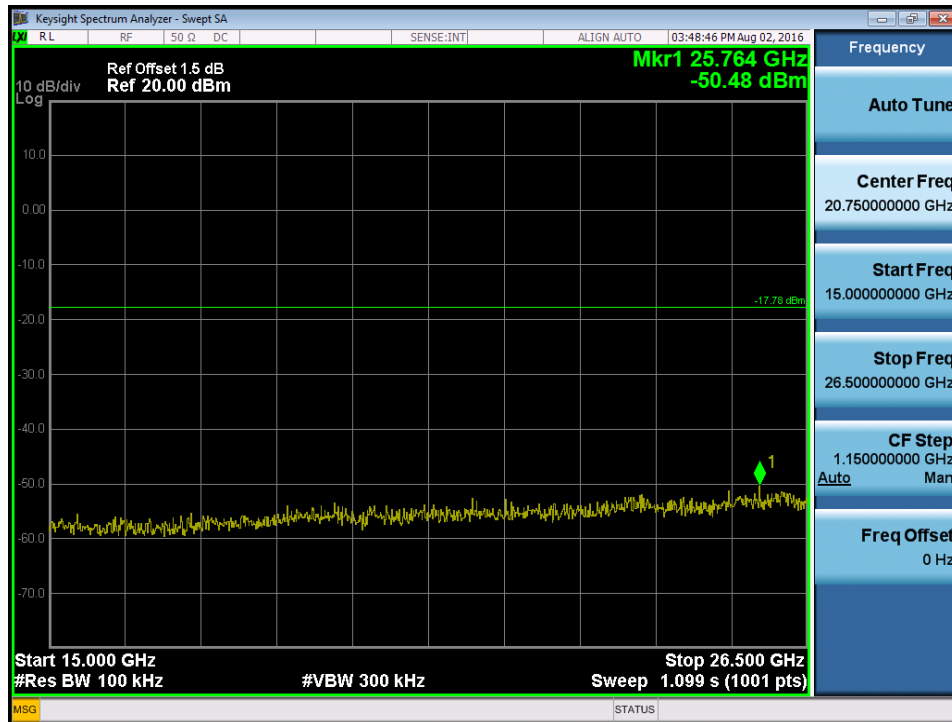
TX HT20 mode CH06 (10 Harmonic of the frequency)





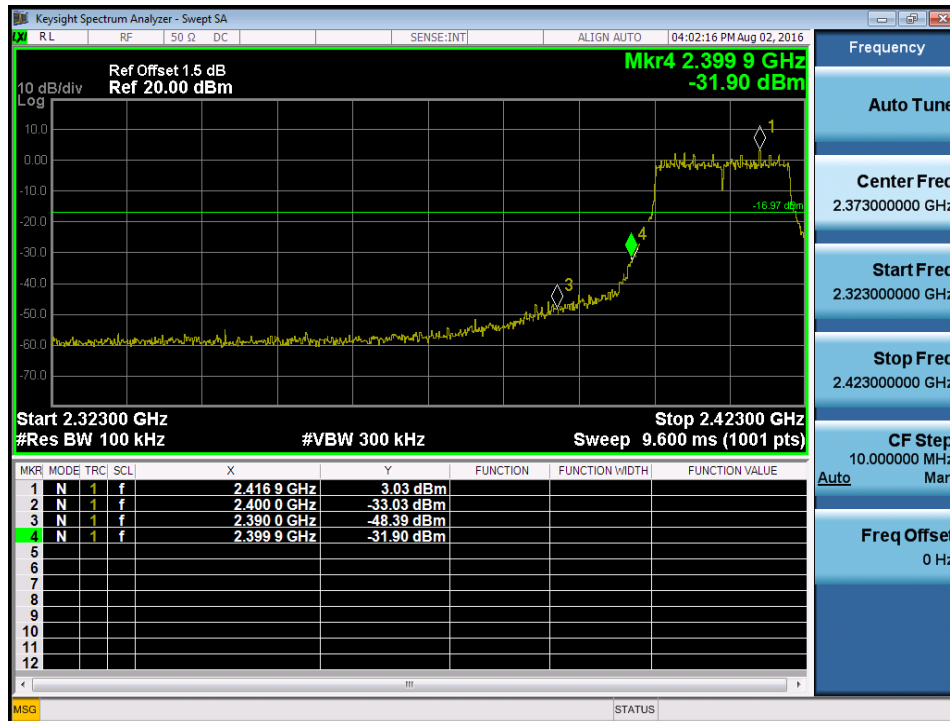
TX HT20 mode CH11 (10 Harmonic of the frequency)



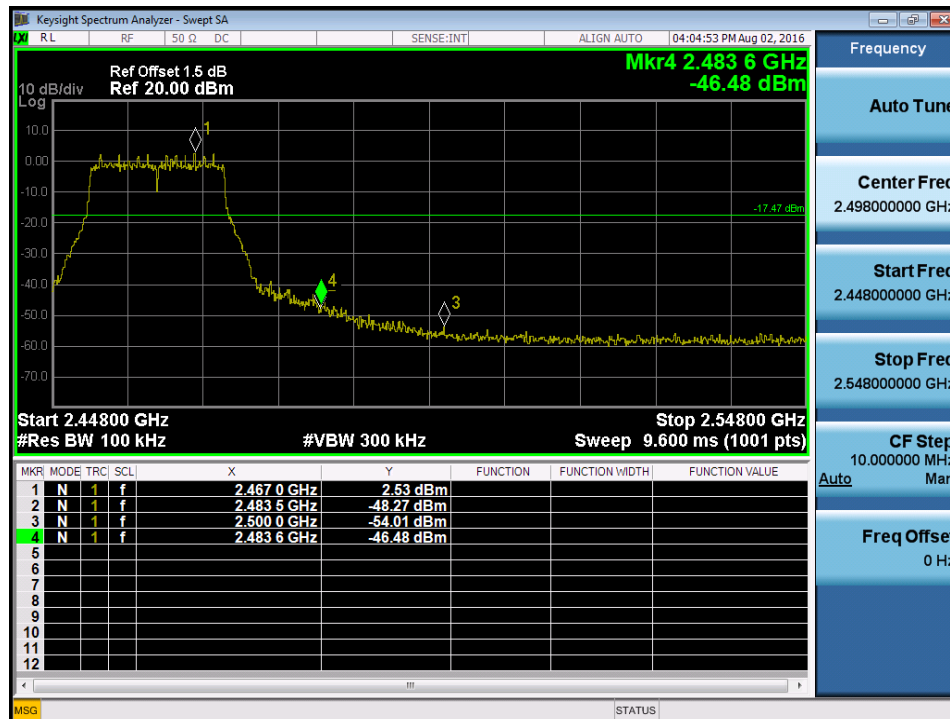


Test Mode : TX N-20M Mode_ANT 2

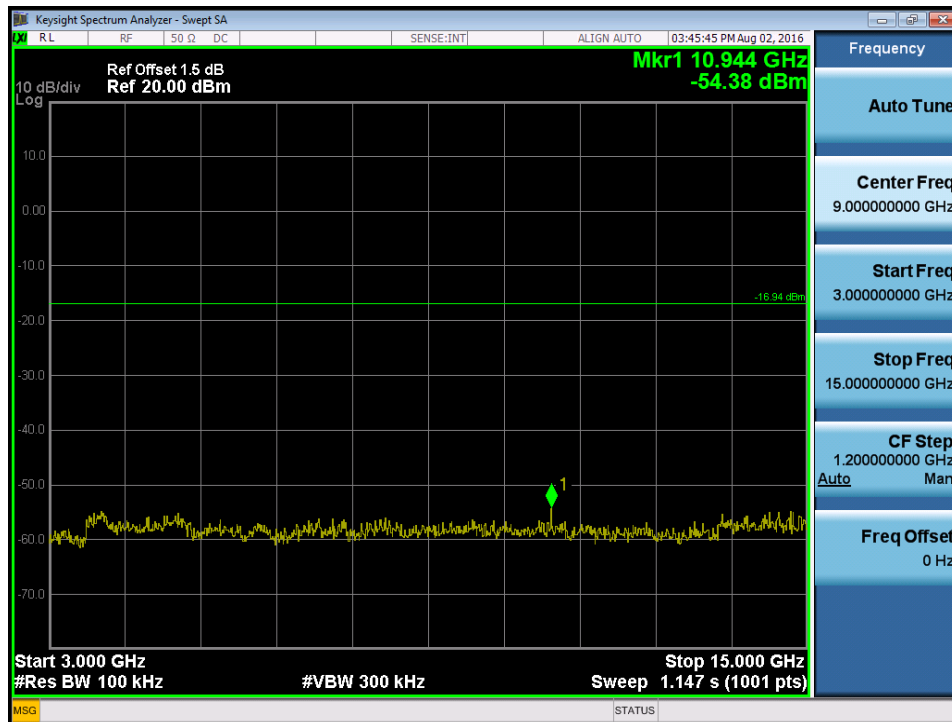
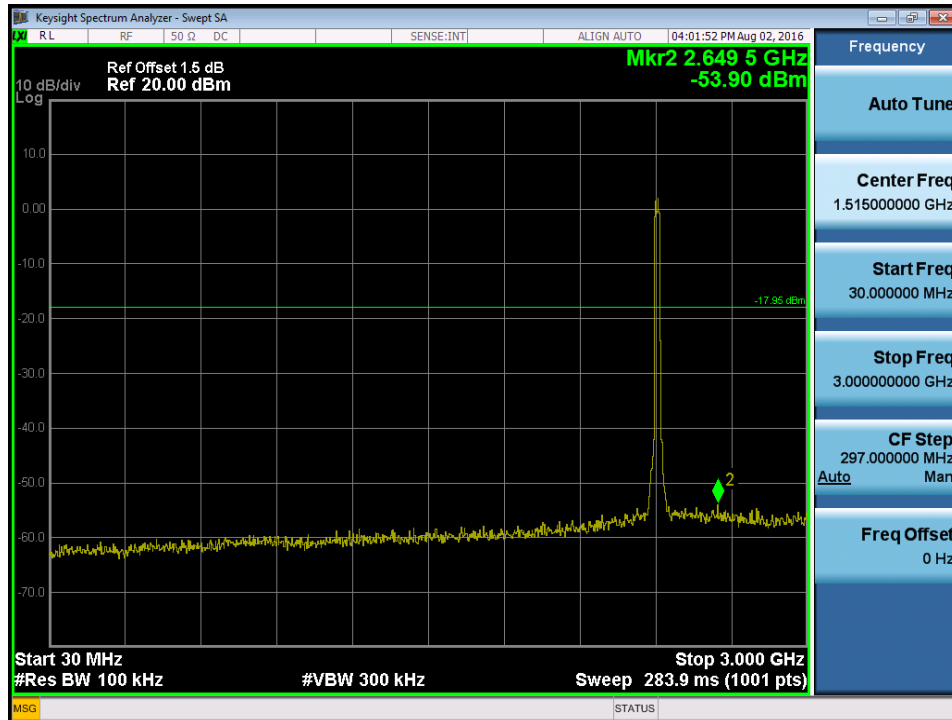
TX HT20 mode CH01

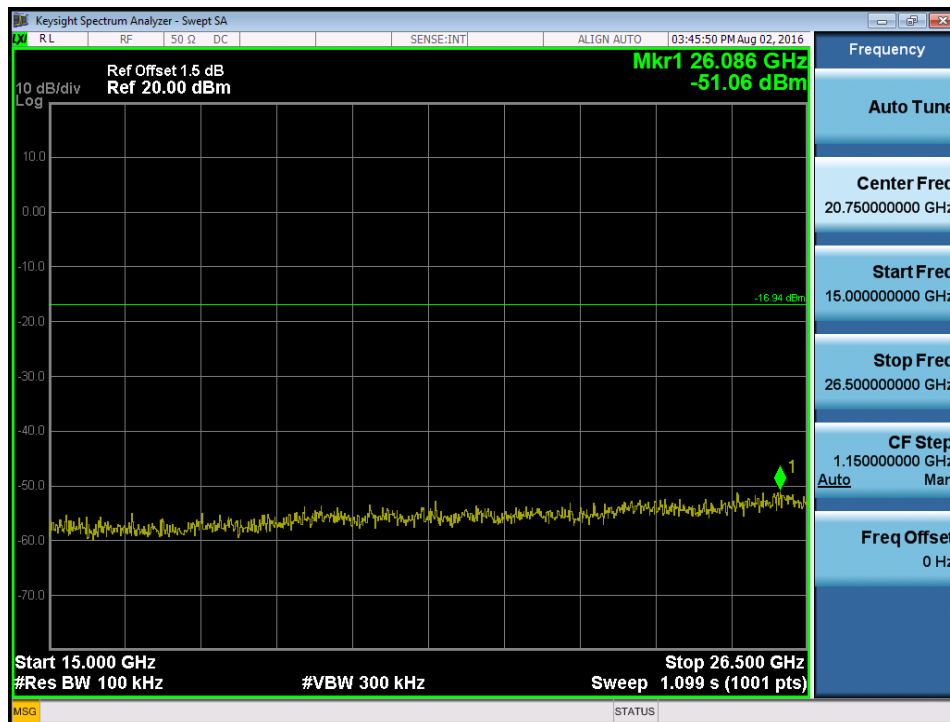


TX HT20 mode CH11

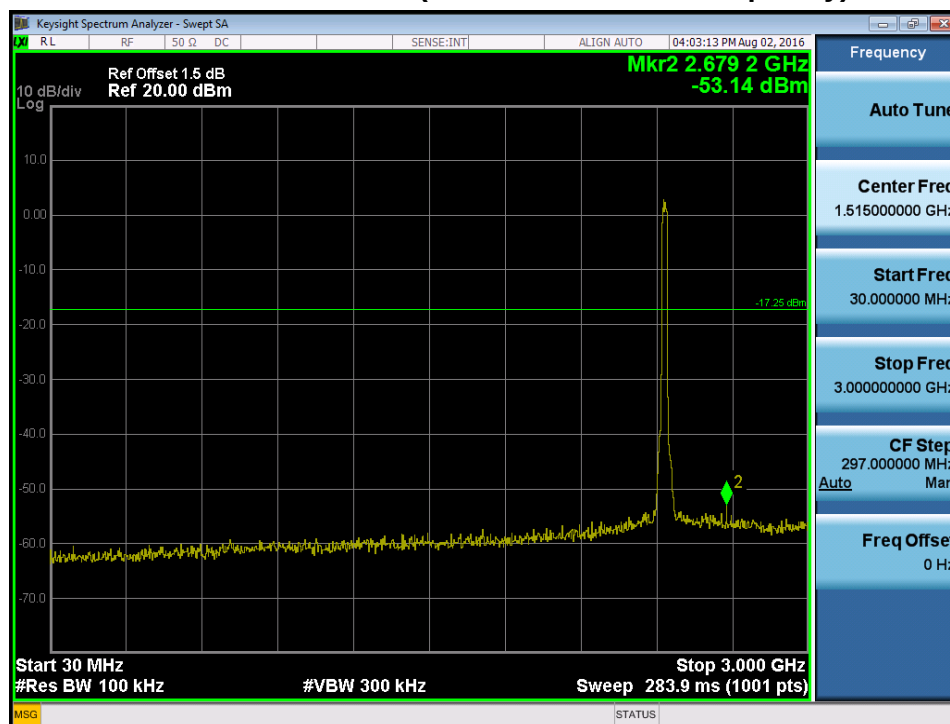


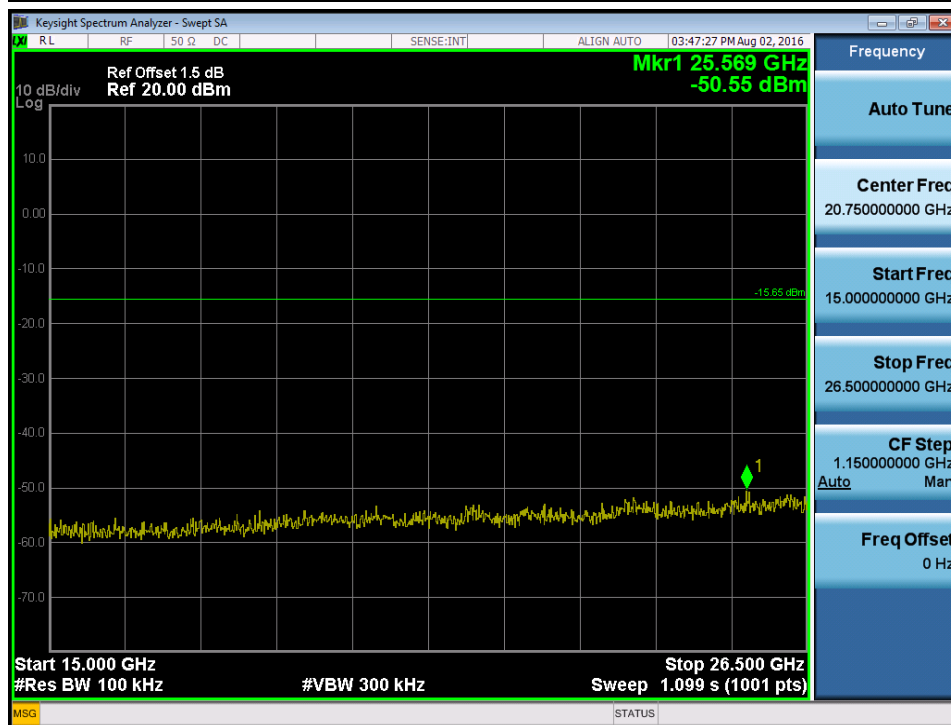
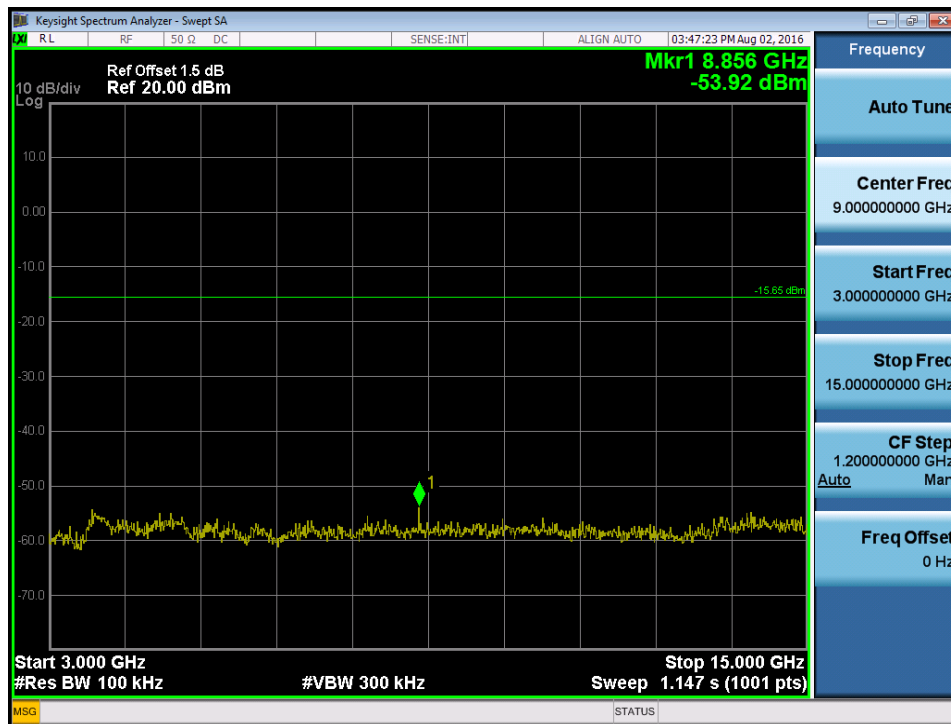
TX HT20 mode CH01 (10 Harmonic of the frequency)



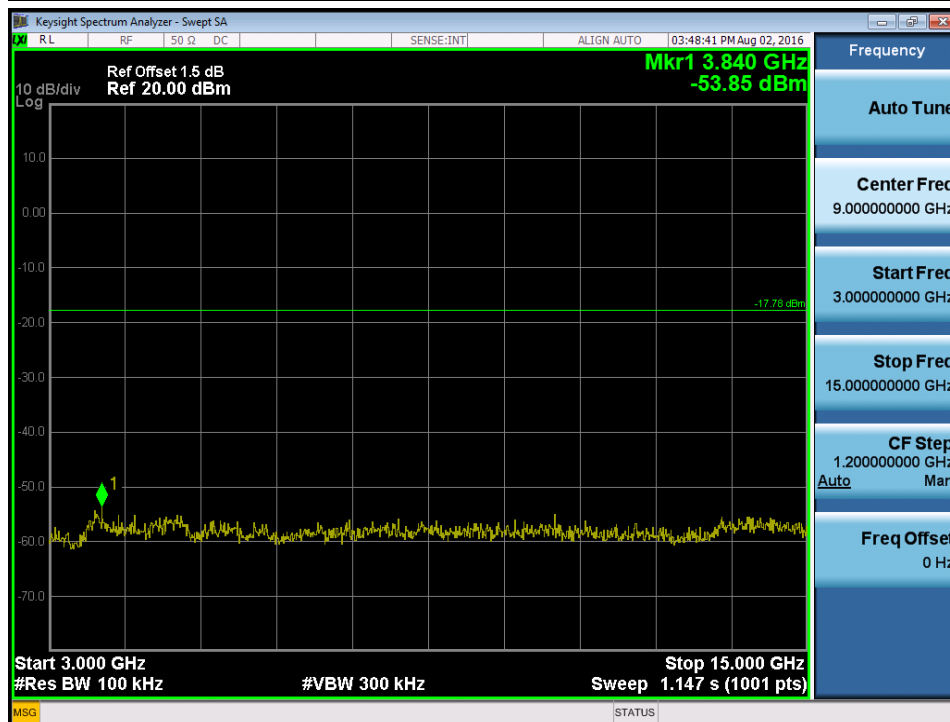
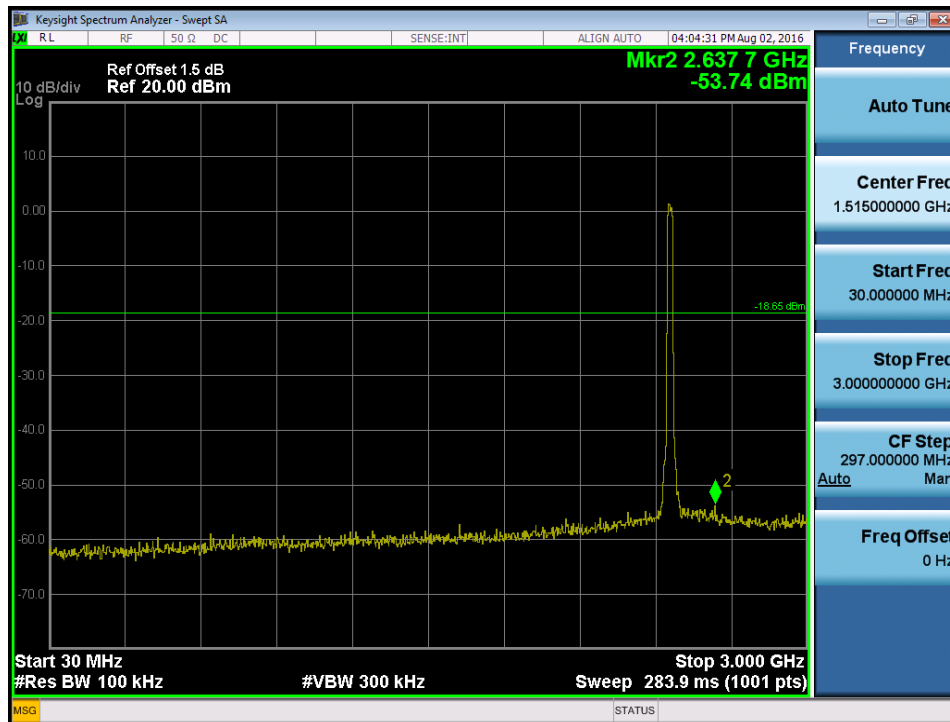


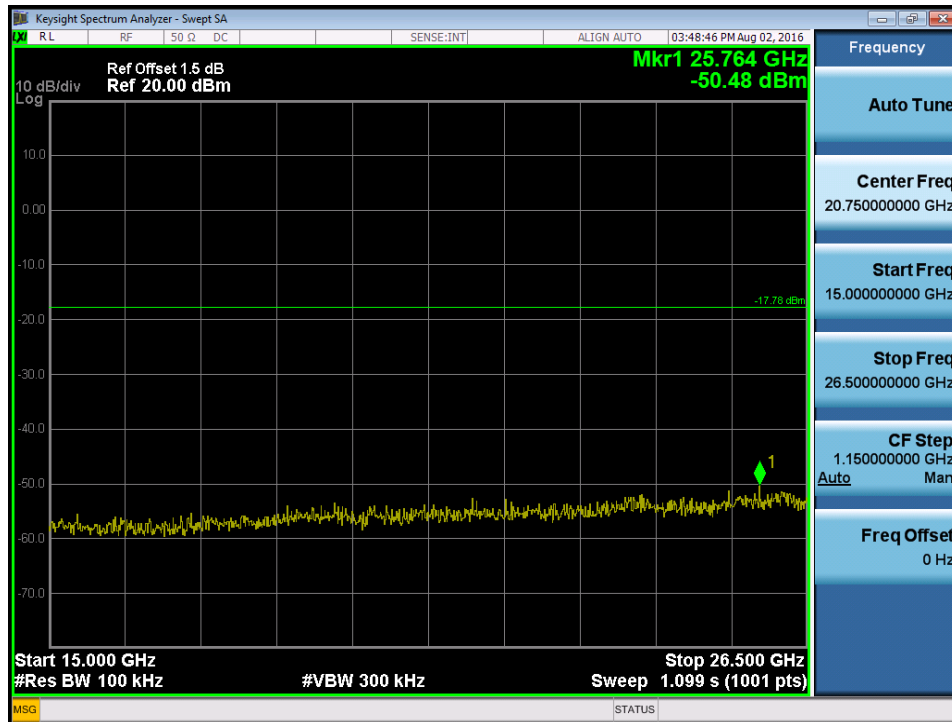
TX HT20 mode CH06 (10 Harmonic of the frequency)





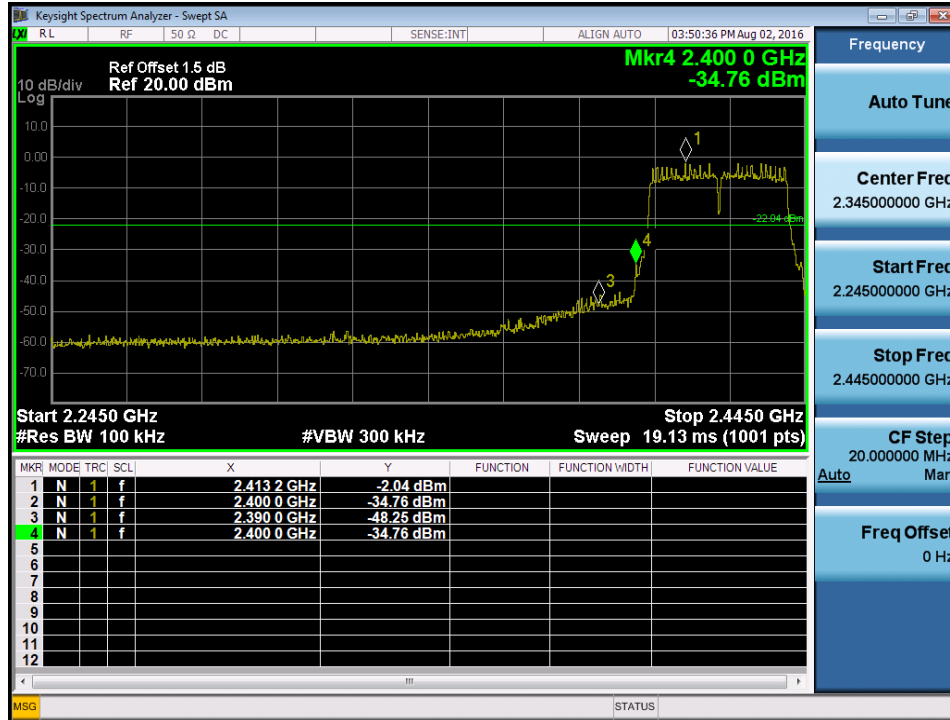
TX HT20 mode CH11 (10 Harmonic of the frequency)



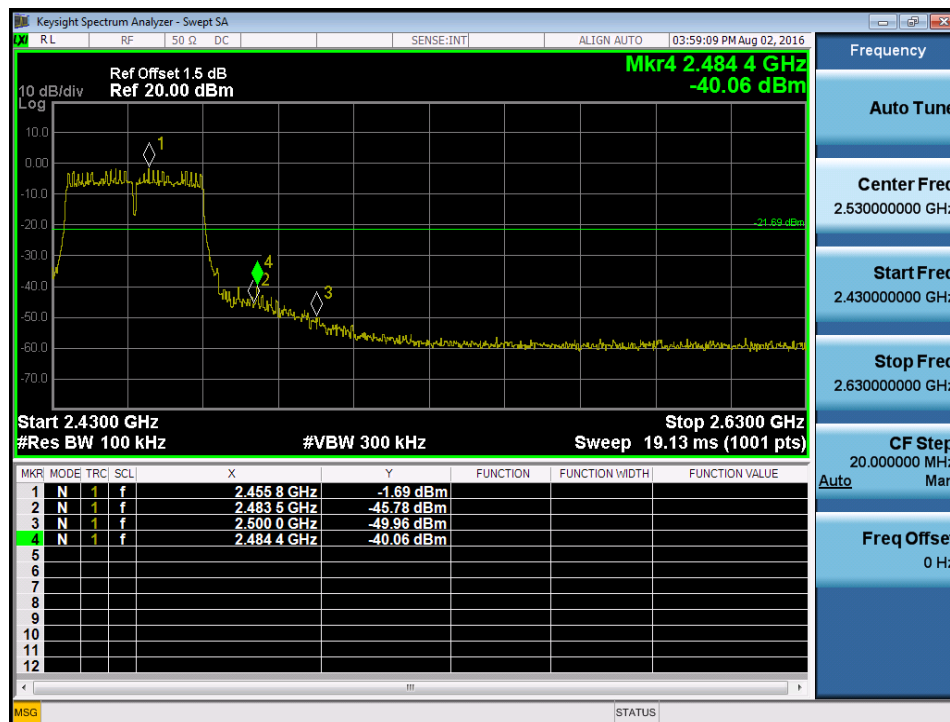


Test Mode : TX N-40M Mode_ANT 1

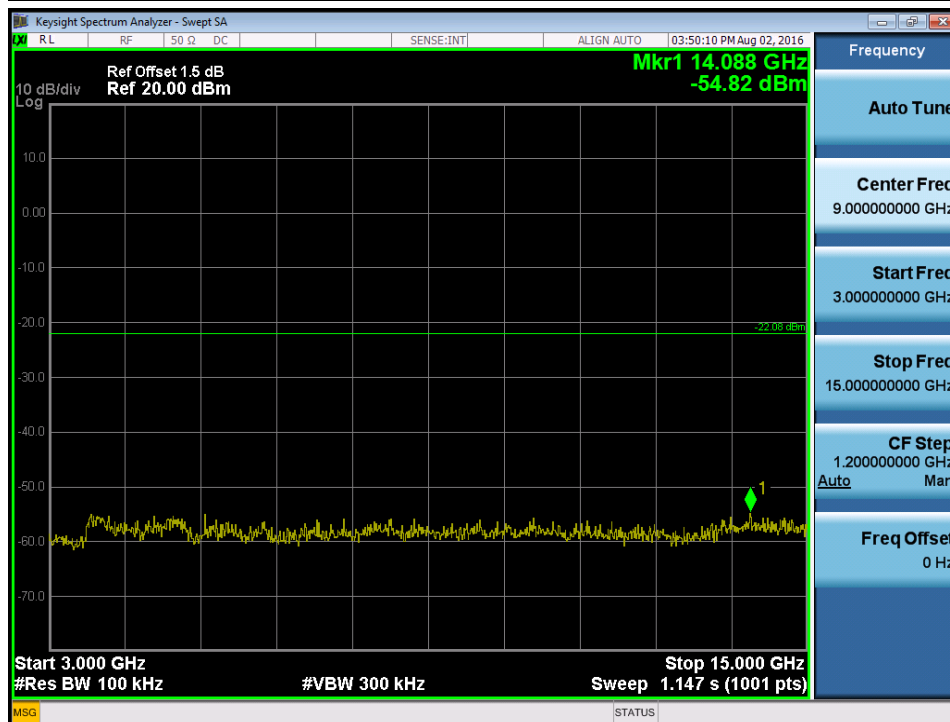
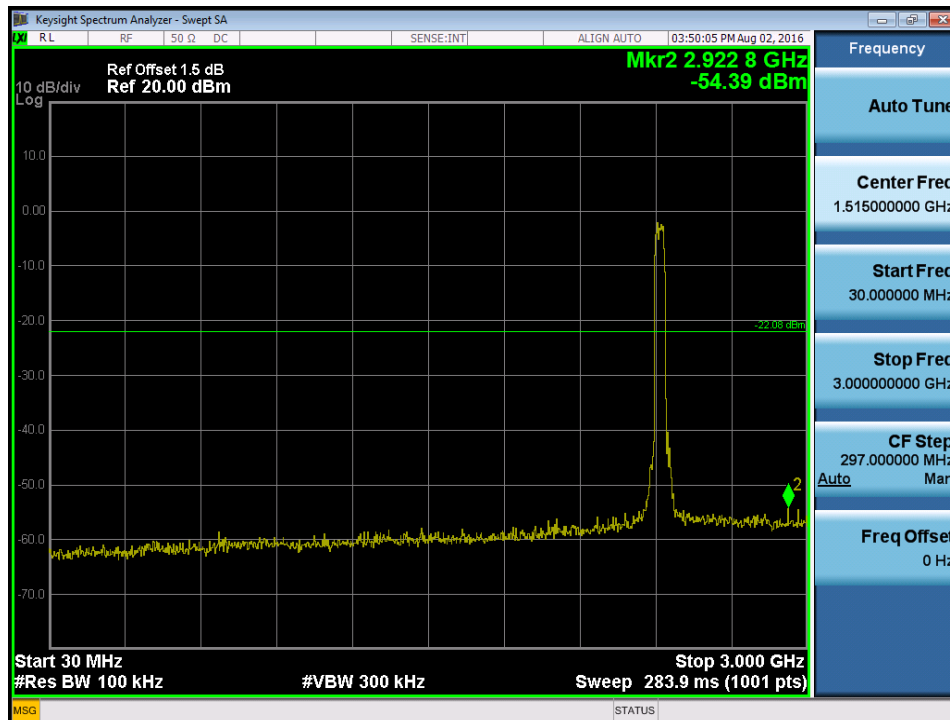
TX HT40 mode CH03

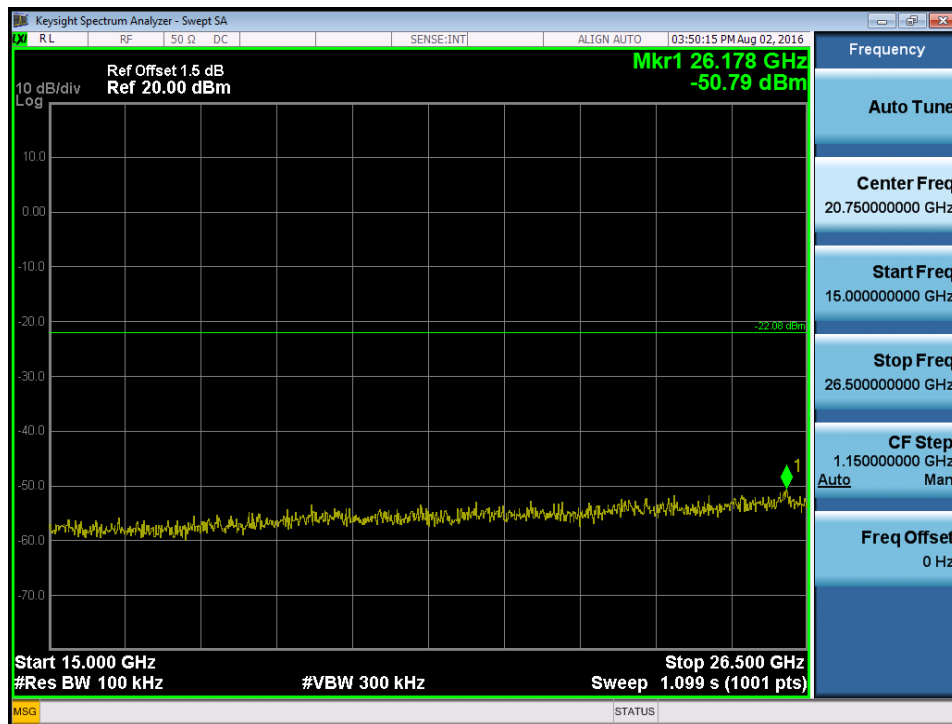


TX HT40 mode CH09

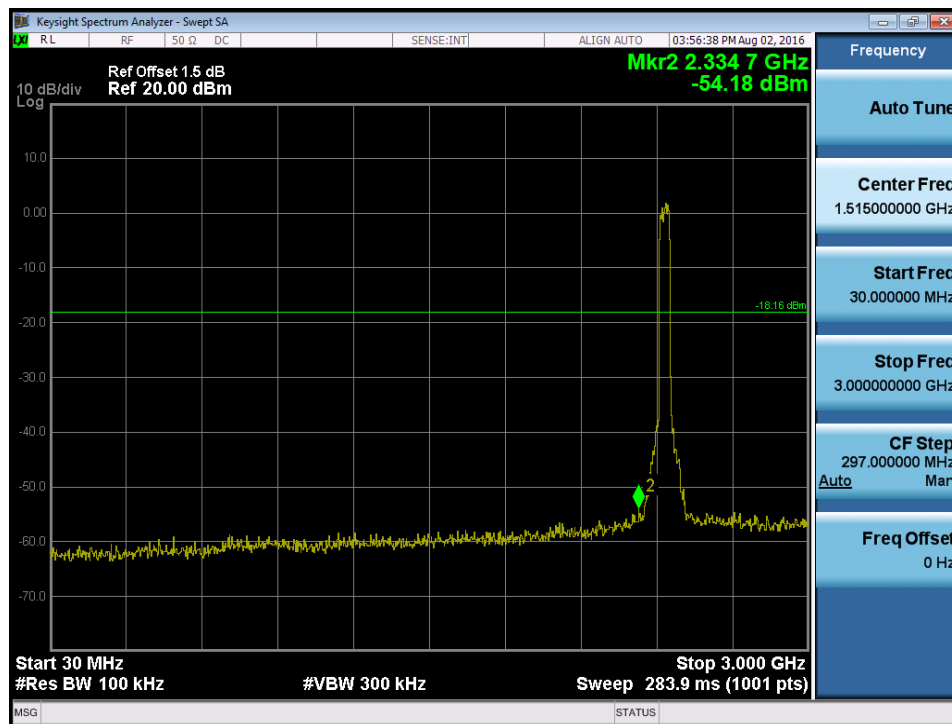


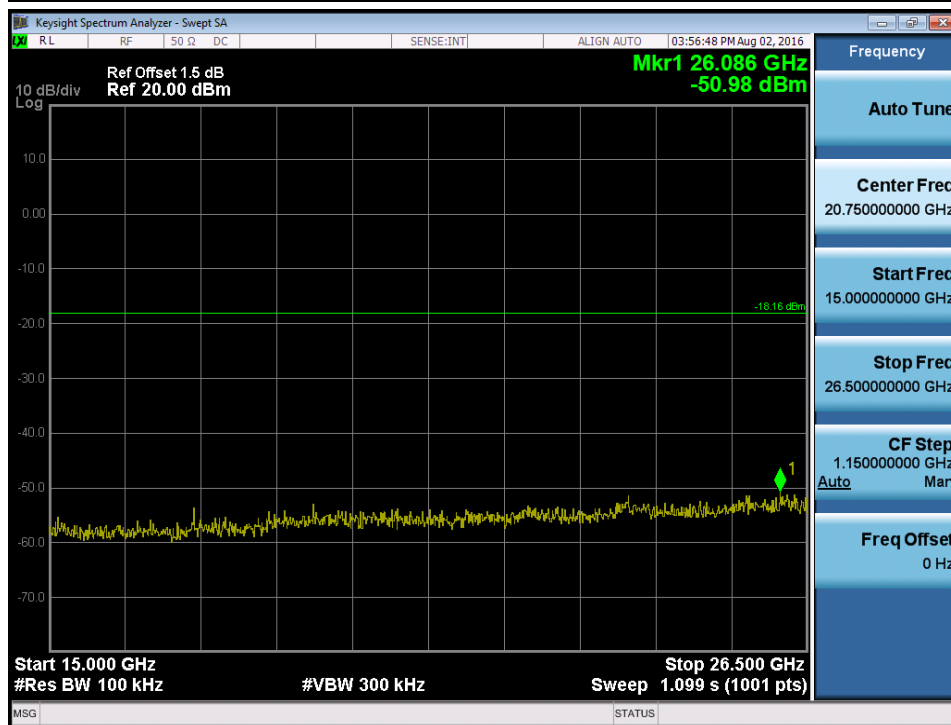
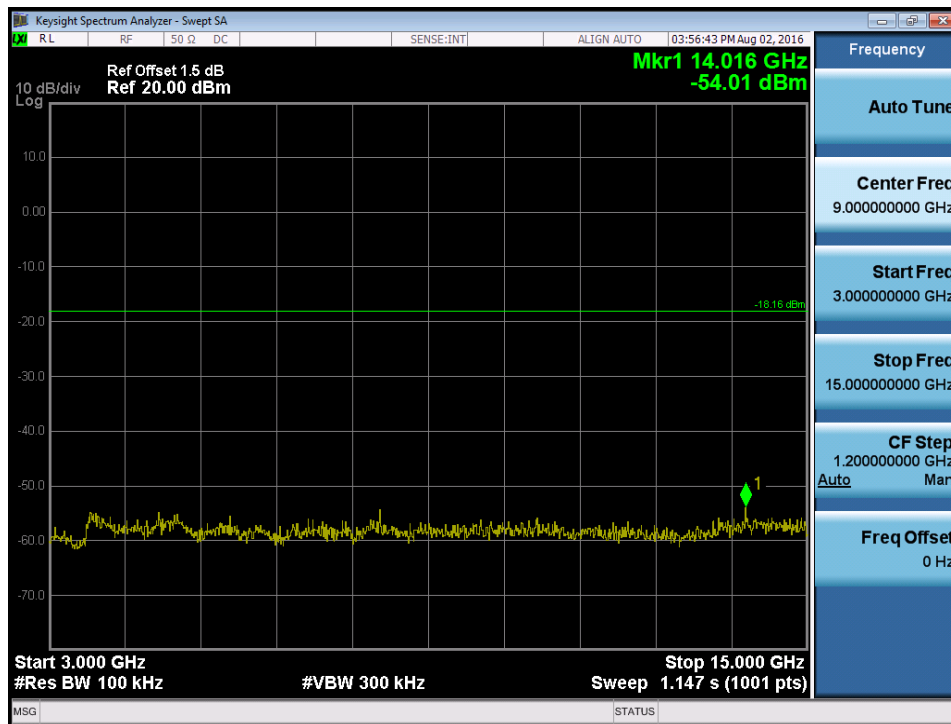
TX HT40 mode CH03 (10 Harmonic of the frequency)



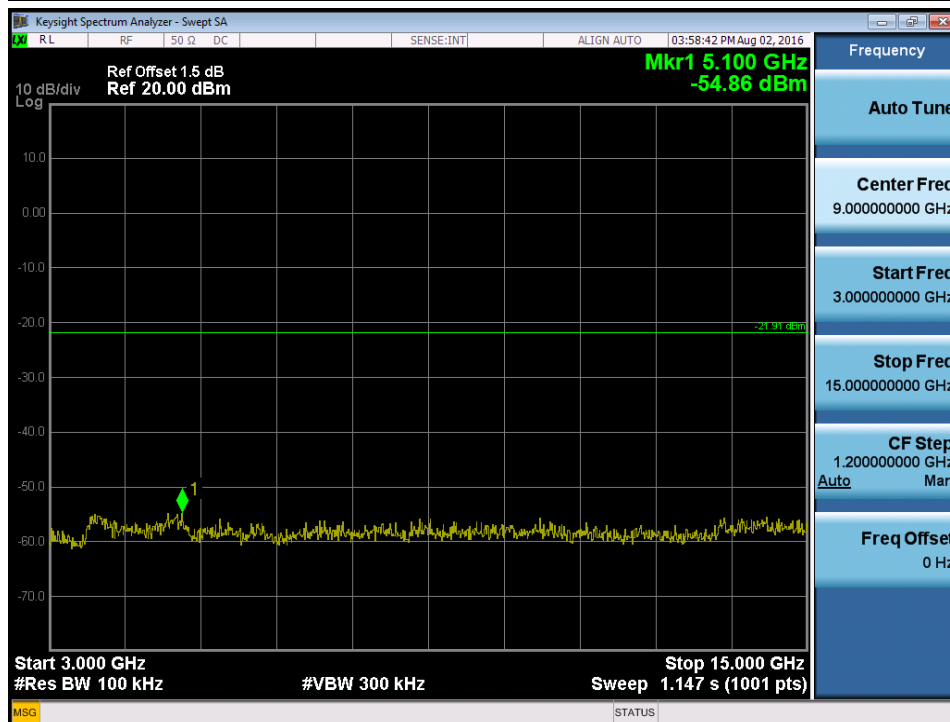
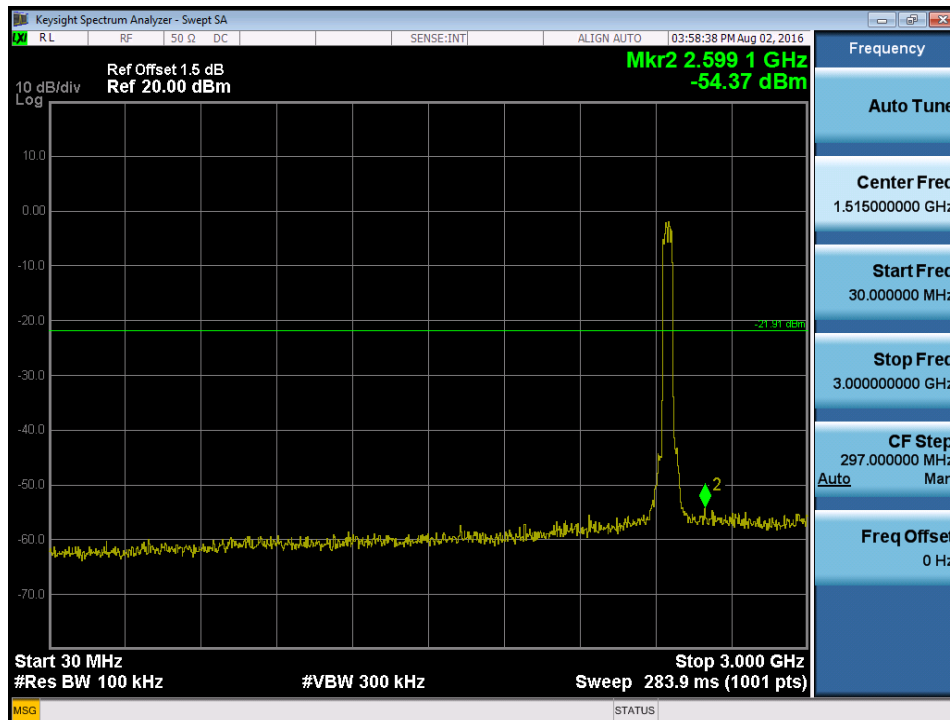


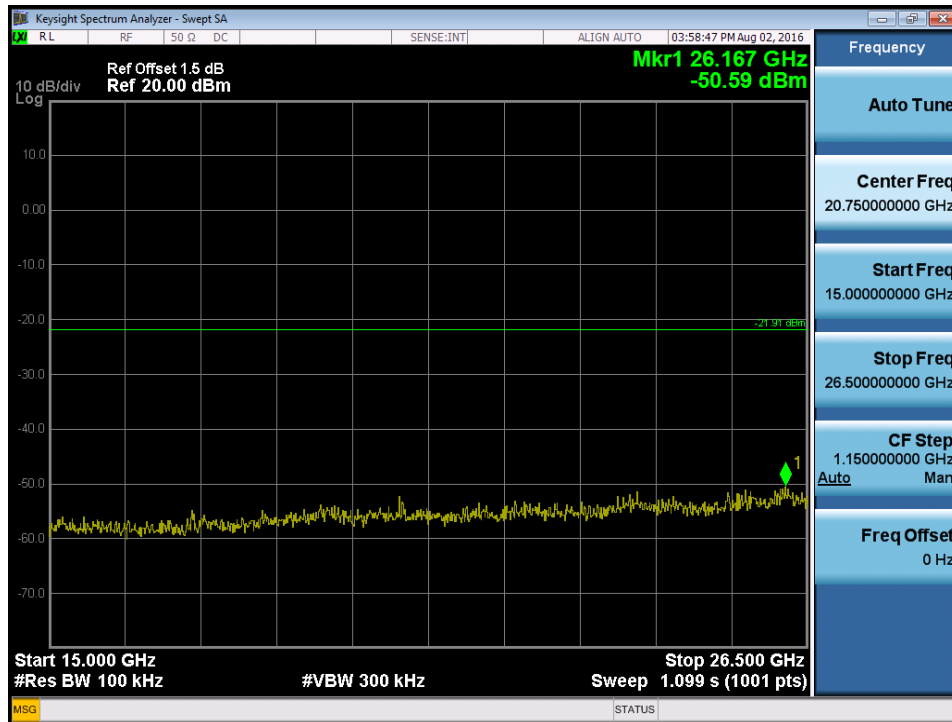
TX HT40 mode CH06 (10 Harmonic of the frequency)





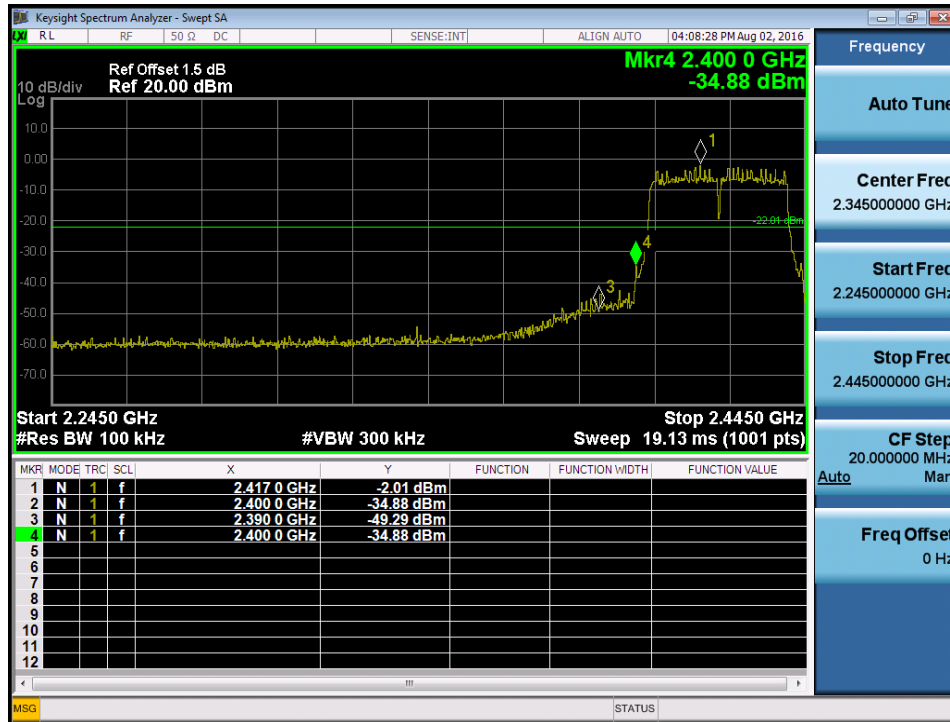
TX HT40 mode CH09 (10 Harmonic of the frequency)



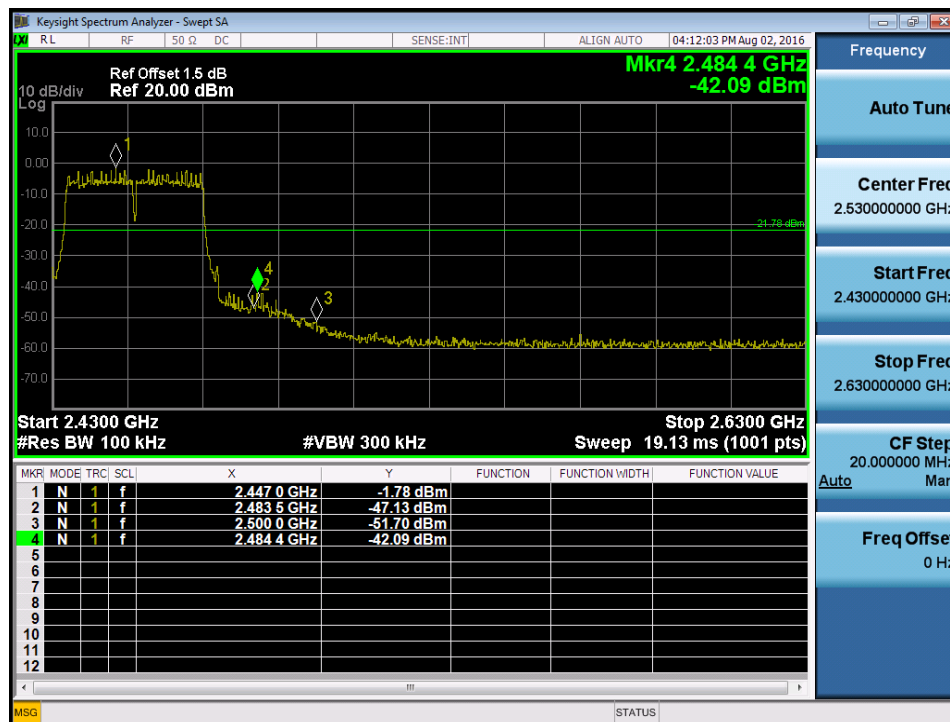


Test Mode : TX N-40M Mode_ANT 2

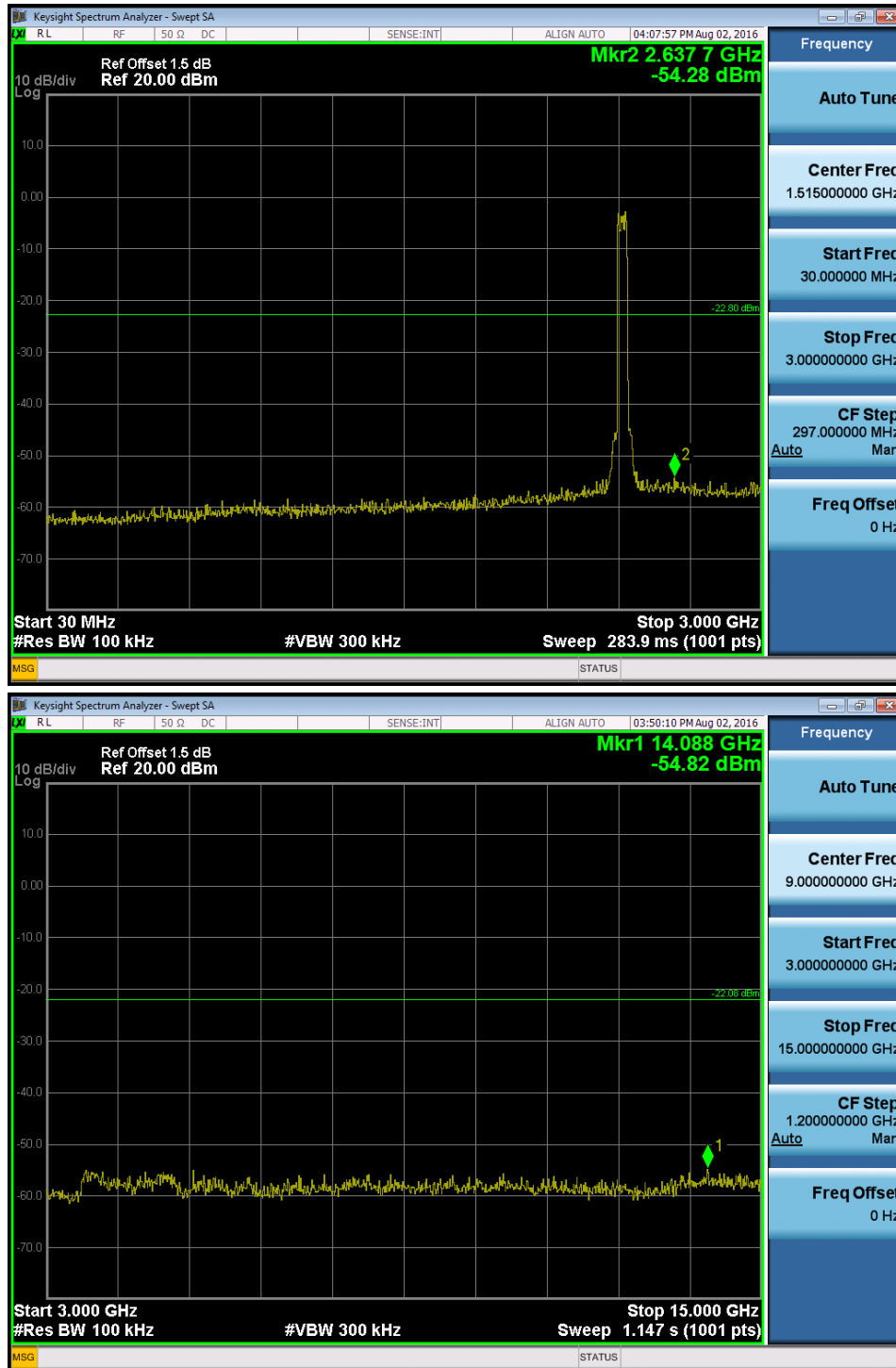
TX HT40 mode CH03

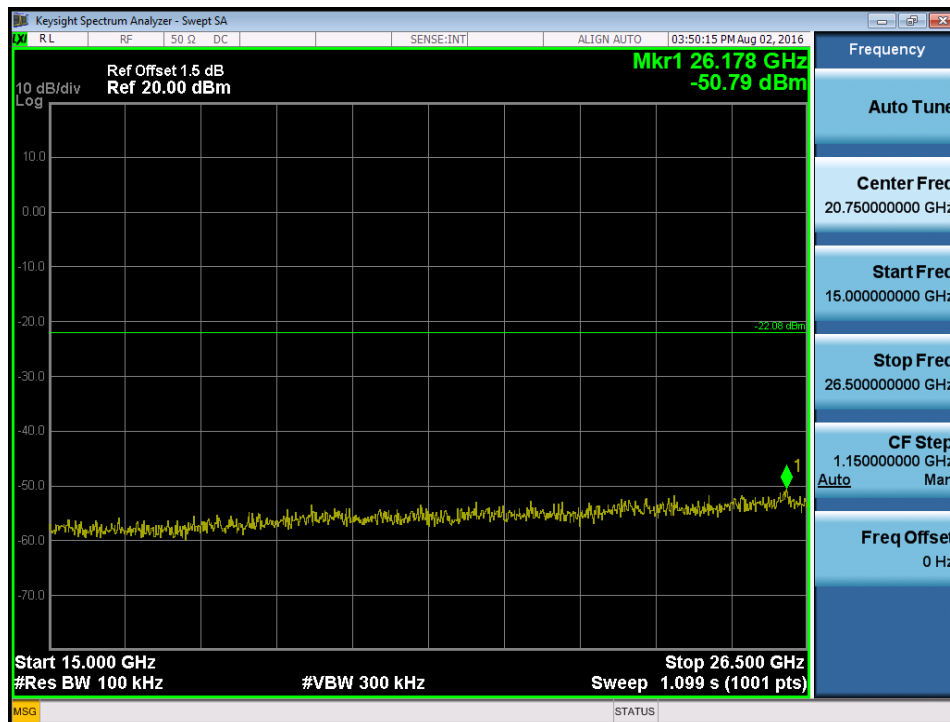


TX HT40 mode CH09

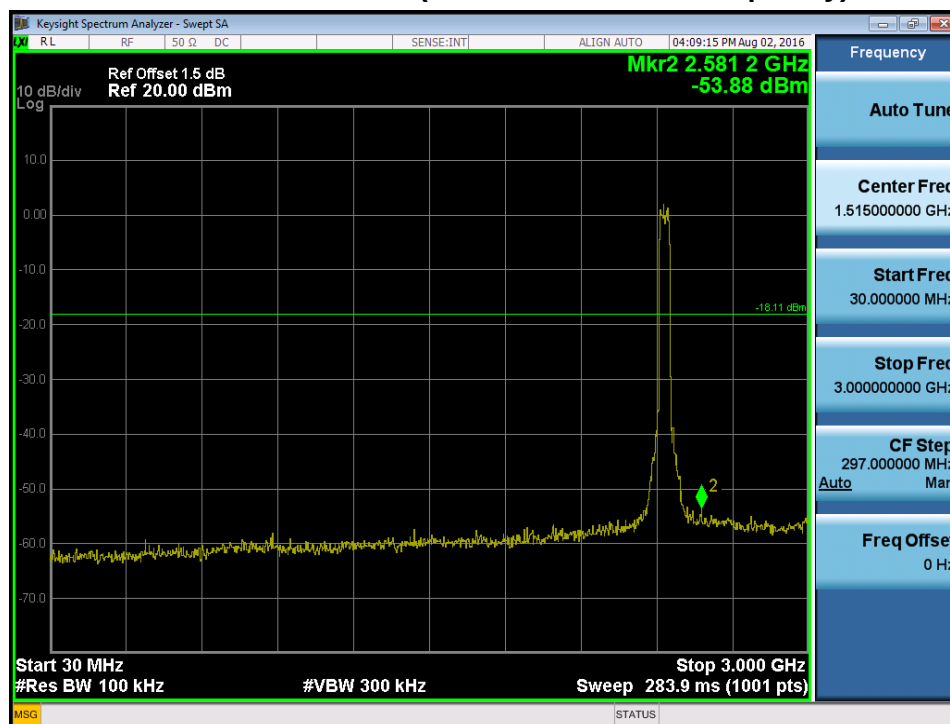


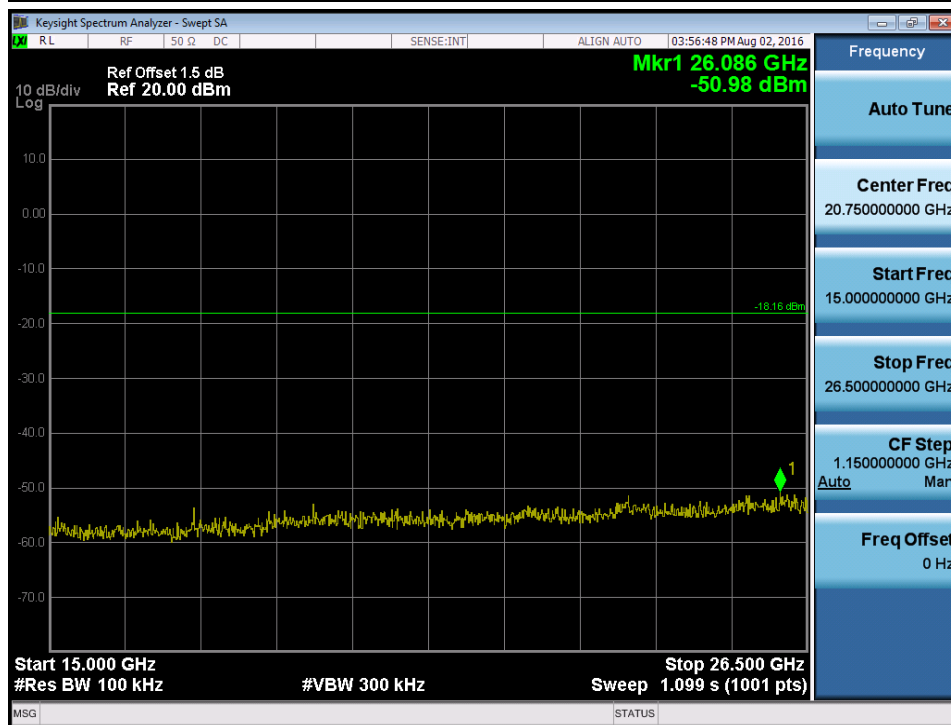
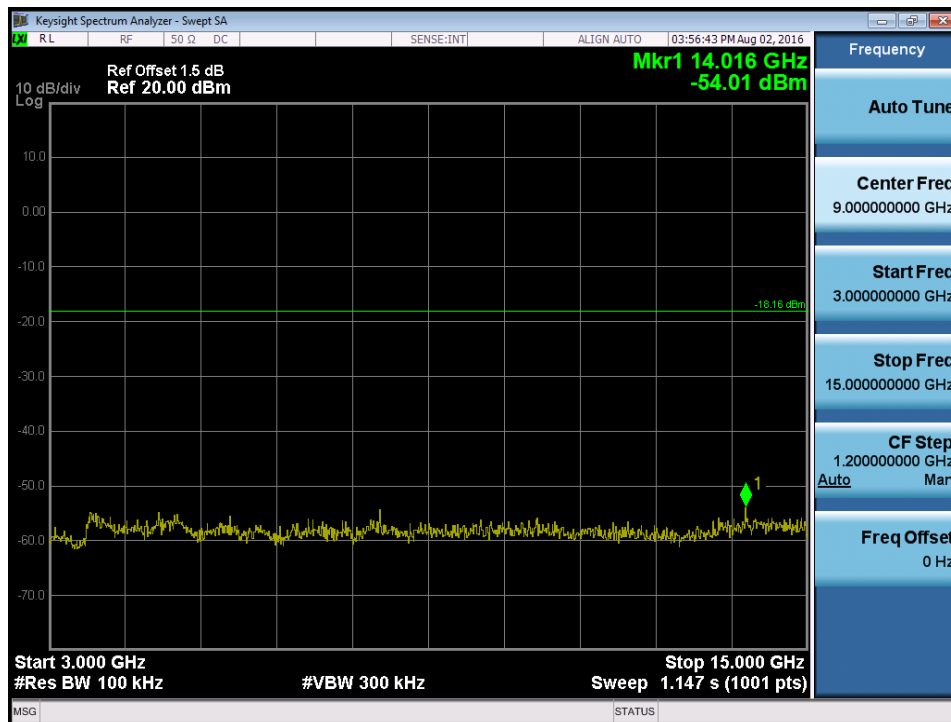
TX HT40 mode CH03 (10 Harmonic of the frequency)



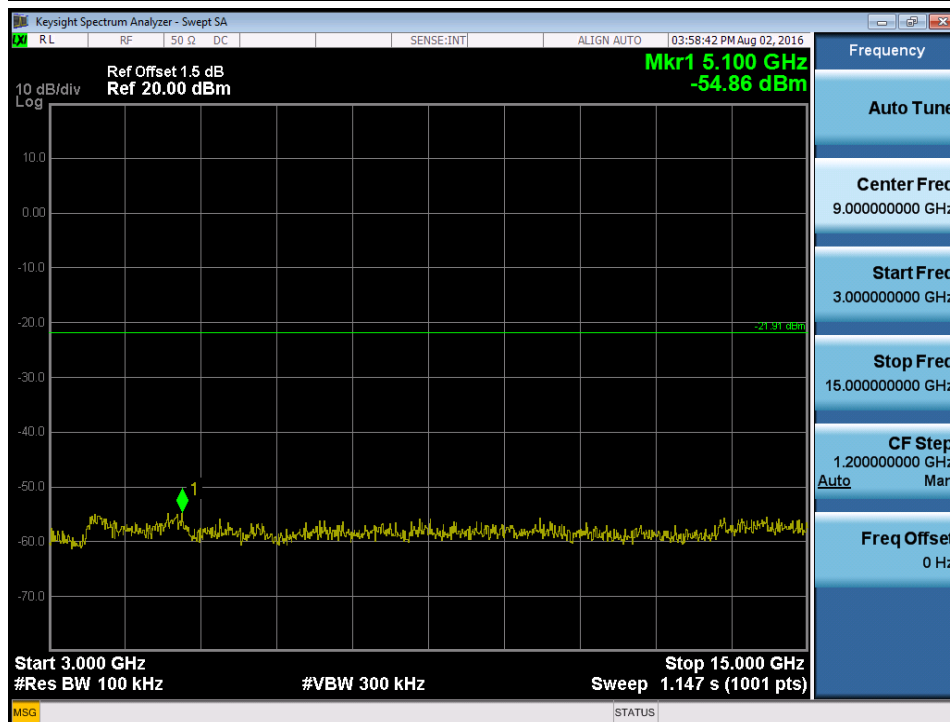
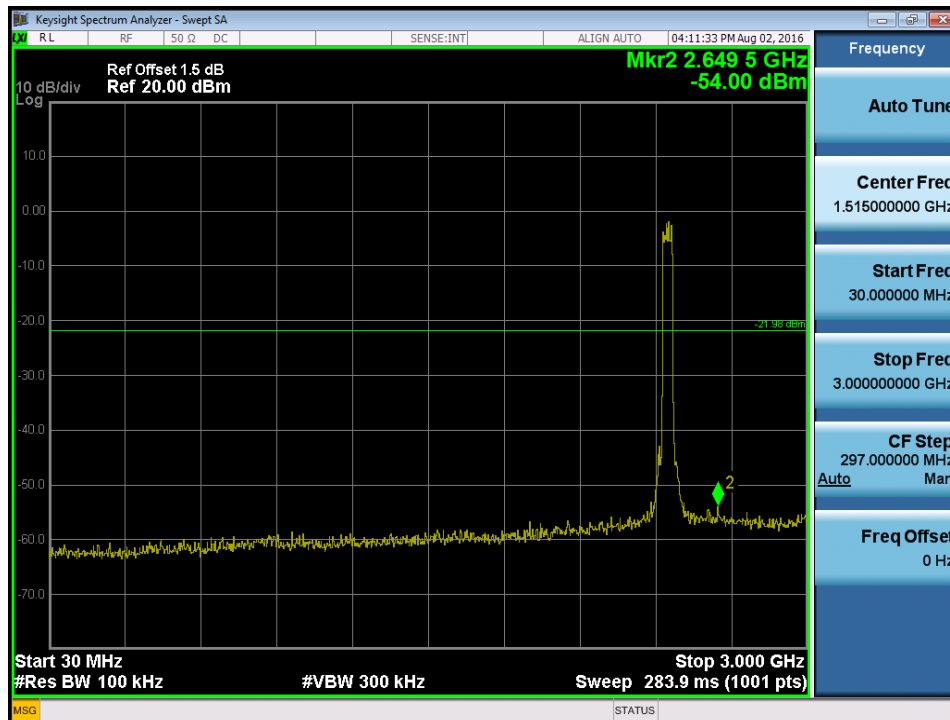


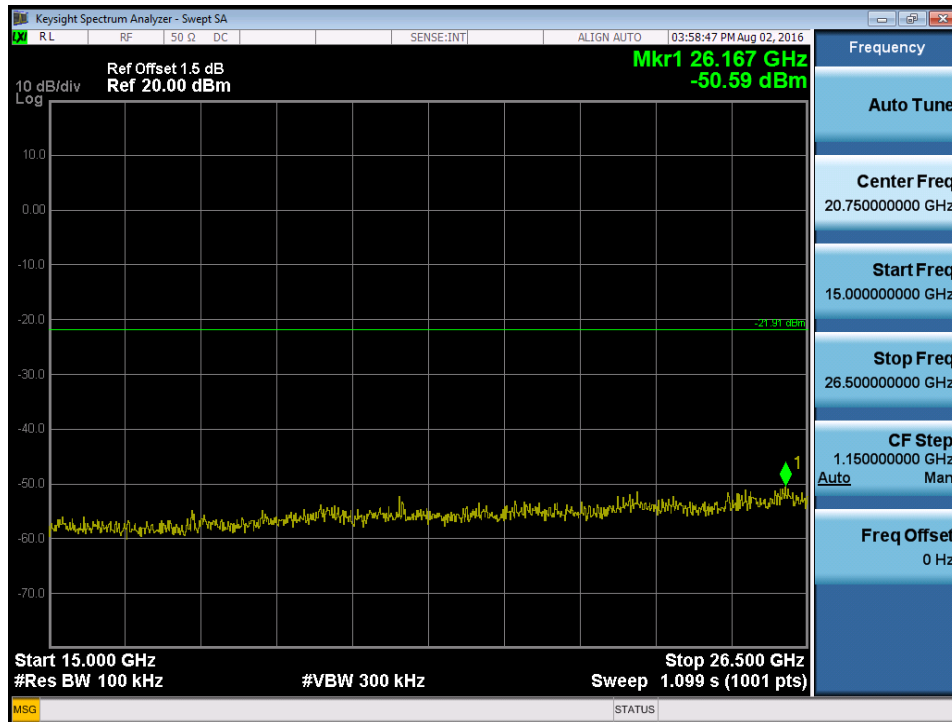
TX HT40 mode CH06 (10 Harmonic of the frequency)





TX HT40 mode CH09 (10 Harmonic of the frequency)



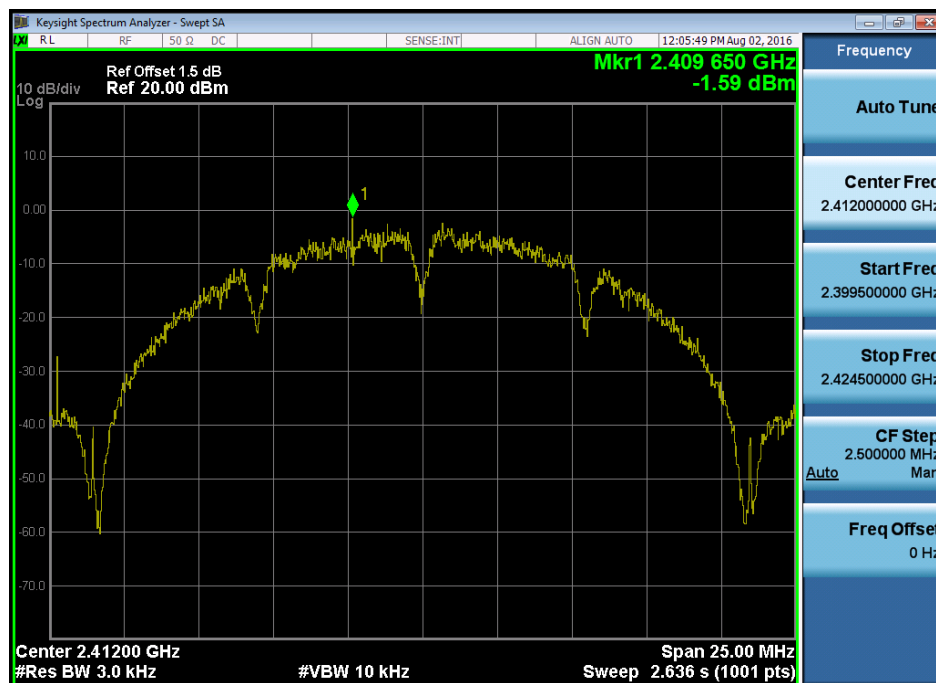


ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-1.59	0.6918	8.00	Complies
2437	-0.48	0.8954	8.00	Complies
2462	-2.21	0.6012	8.00	Complies

TX CH01



TX CH06



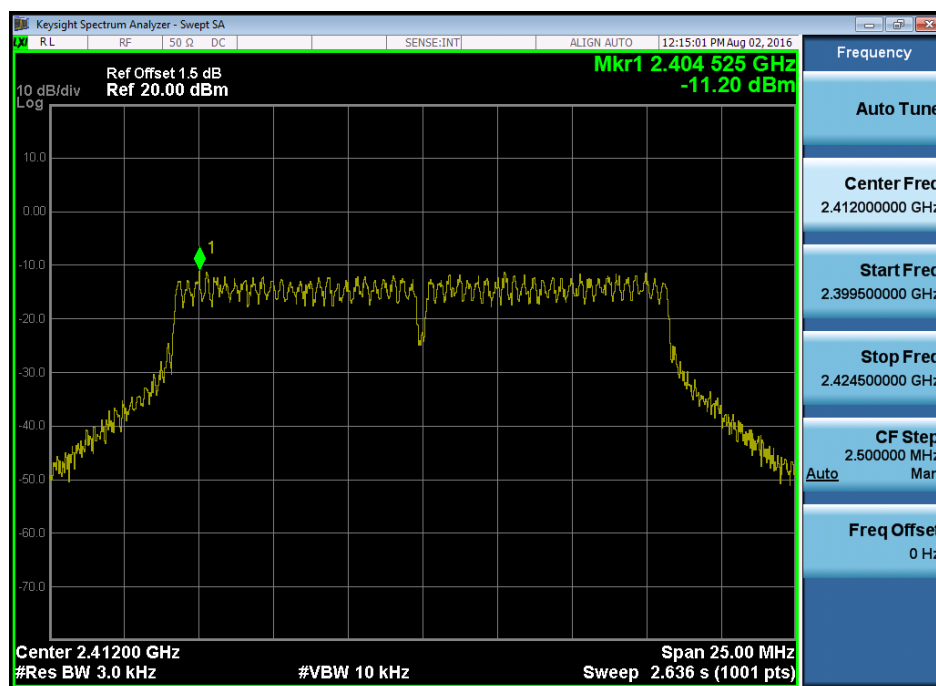
TX CH11



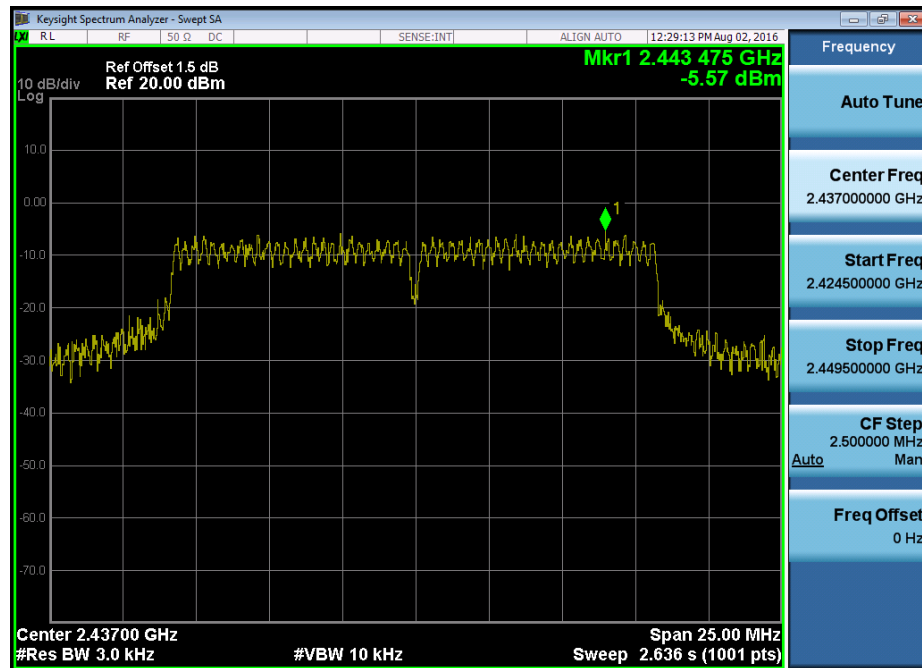
Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.20	0.0759	8.00	Complies
2437	-5.57	0.2773	8.00	Complies
2462	-11.22	0.0755	8.00	Complies

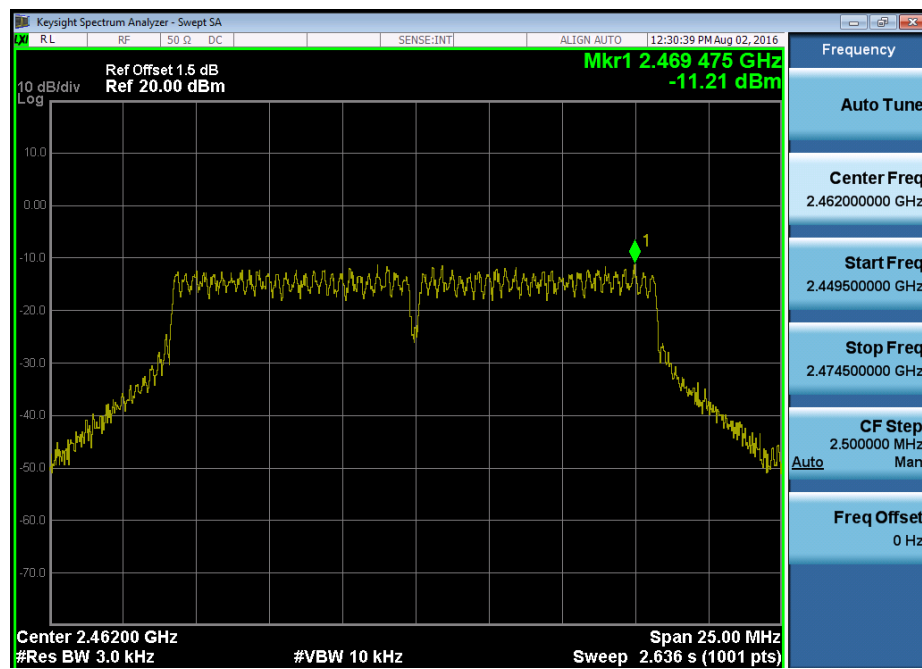
TX CH01



TX CH06



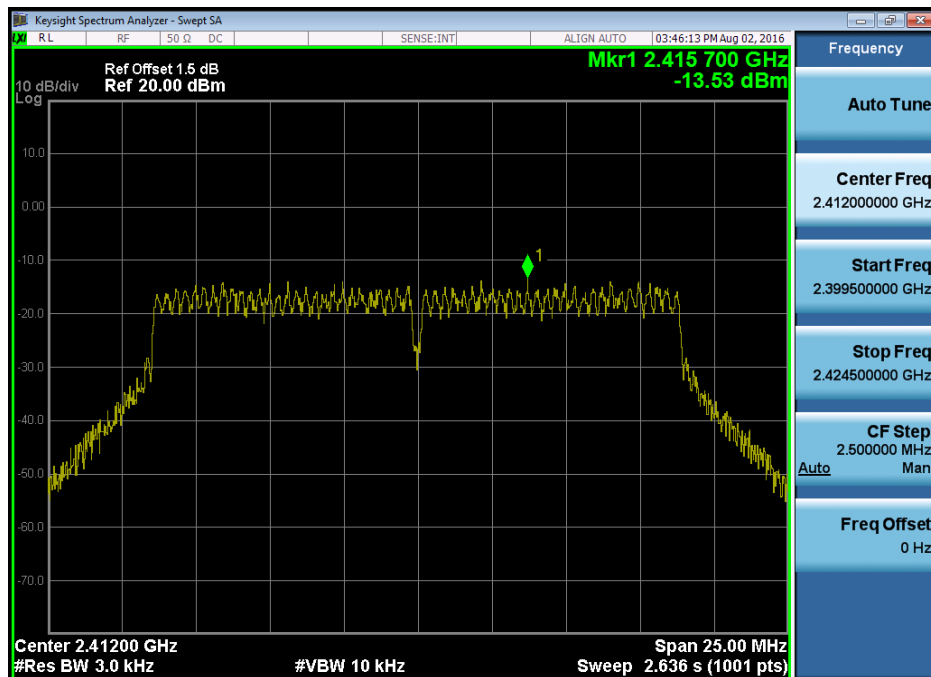
TX CH11



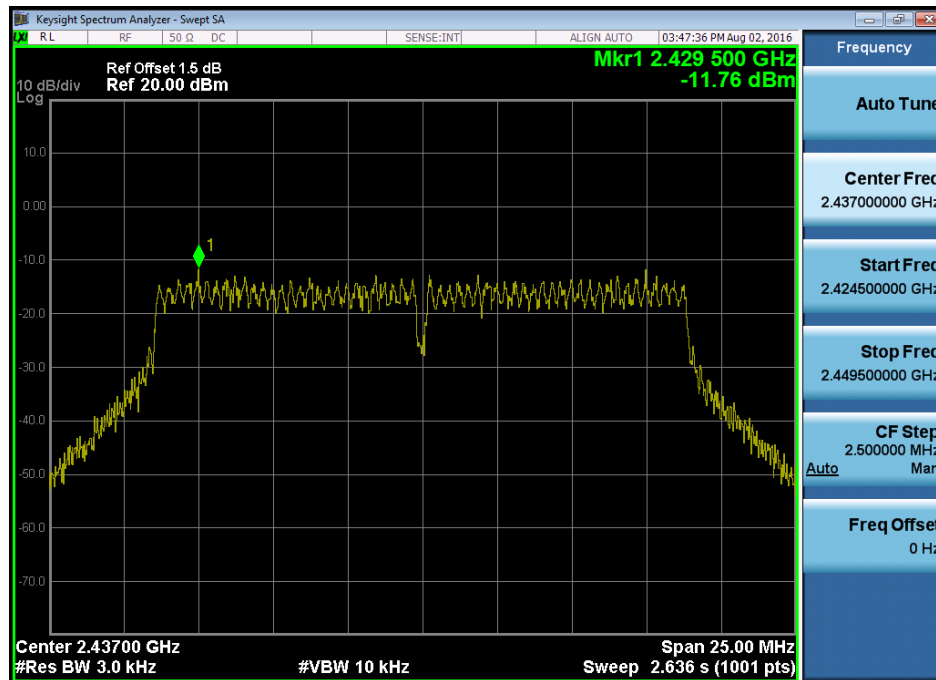
Test Mode : TX N-20M Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.53	0.0444	8.00	Complies
2437	-11.76	0.0667	8.00	Complies
2462	-13.31	0.0467	8.00	Complies

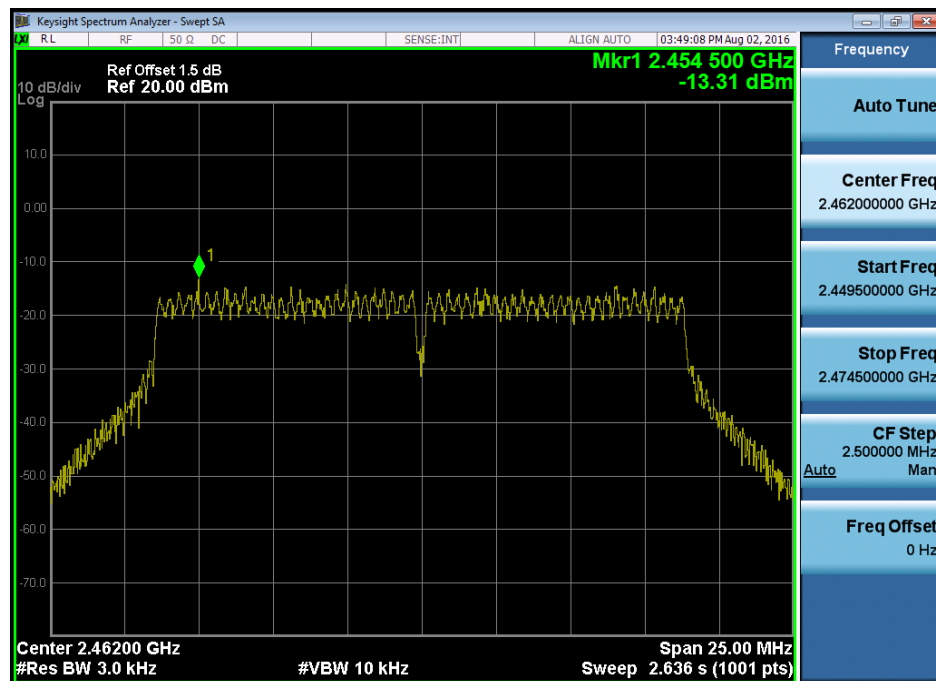
TX CH01



TX CH06



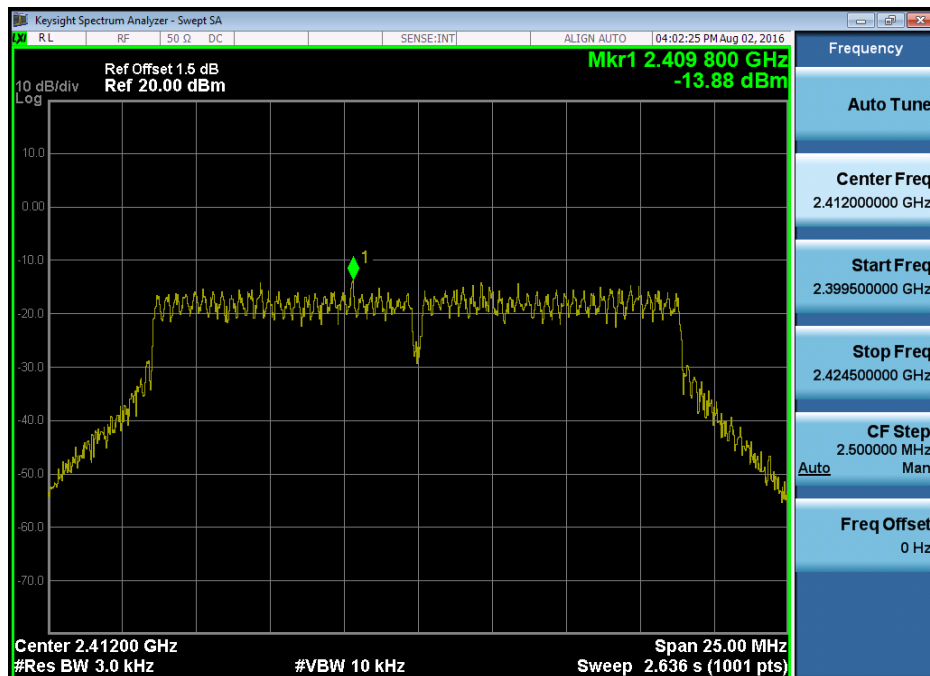
TX CH11



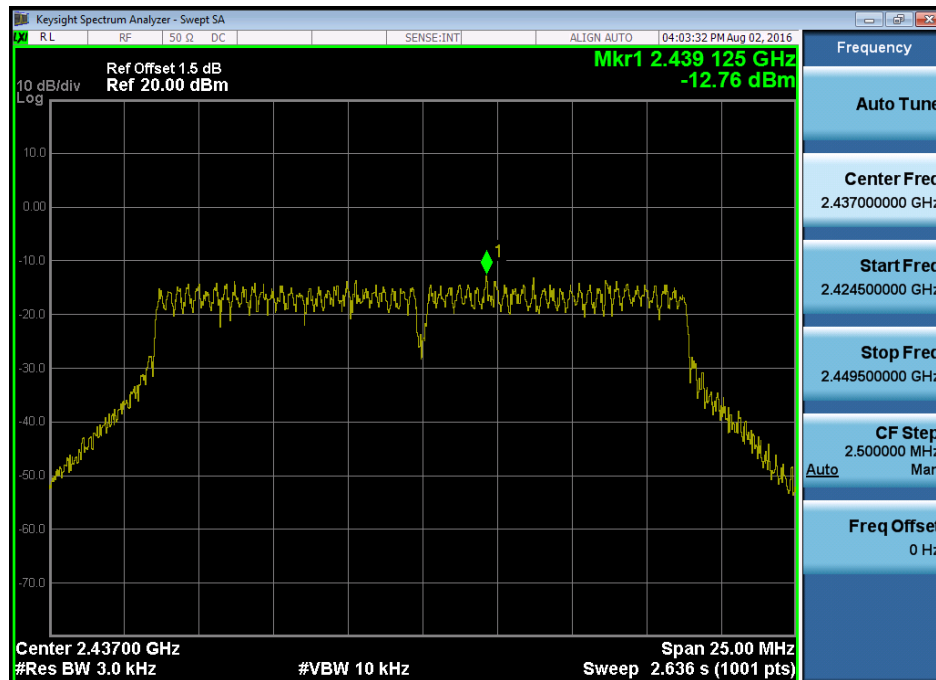
Test Mode : TX N-20M Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.88	0.0409	8.00	Complies
2437	-12.76	0.0530	8.00	Complies
2462	-14.01	0.0397	8.00	Complies

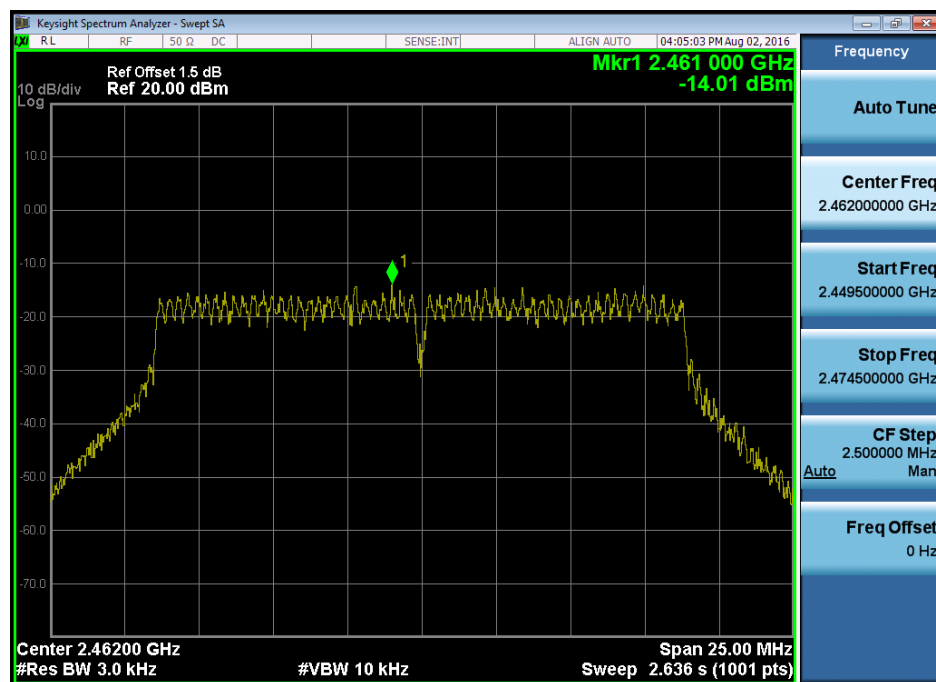
TX CH01



TX CH06



TX CH11



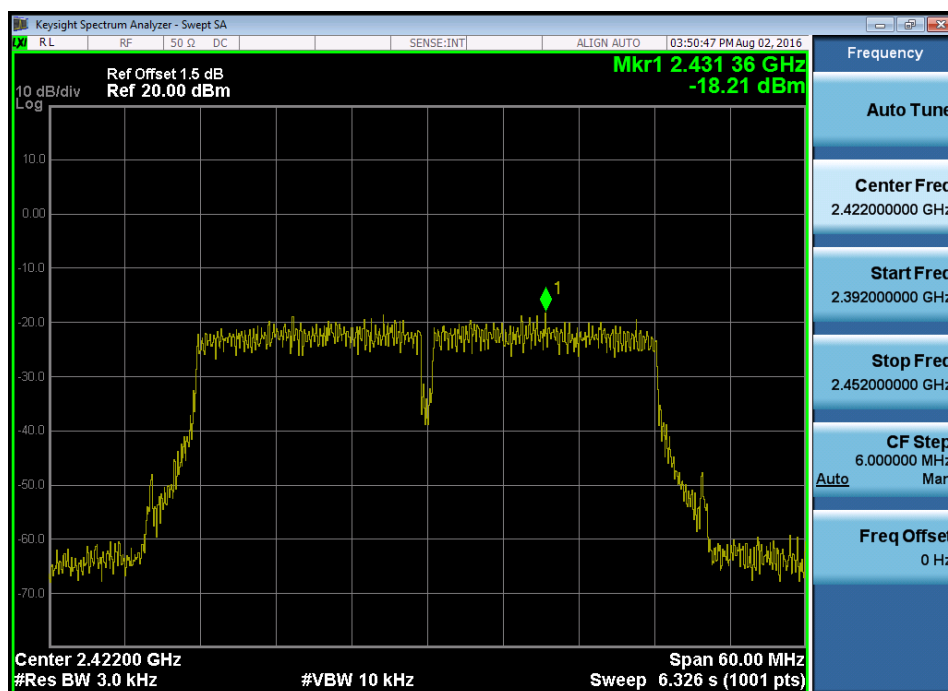
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.97	0.0800	8.00	Complies
2437	-9.21	0.1200	8.00	Complies
2462	-10.46	0.0900	8.00	Complies

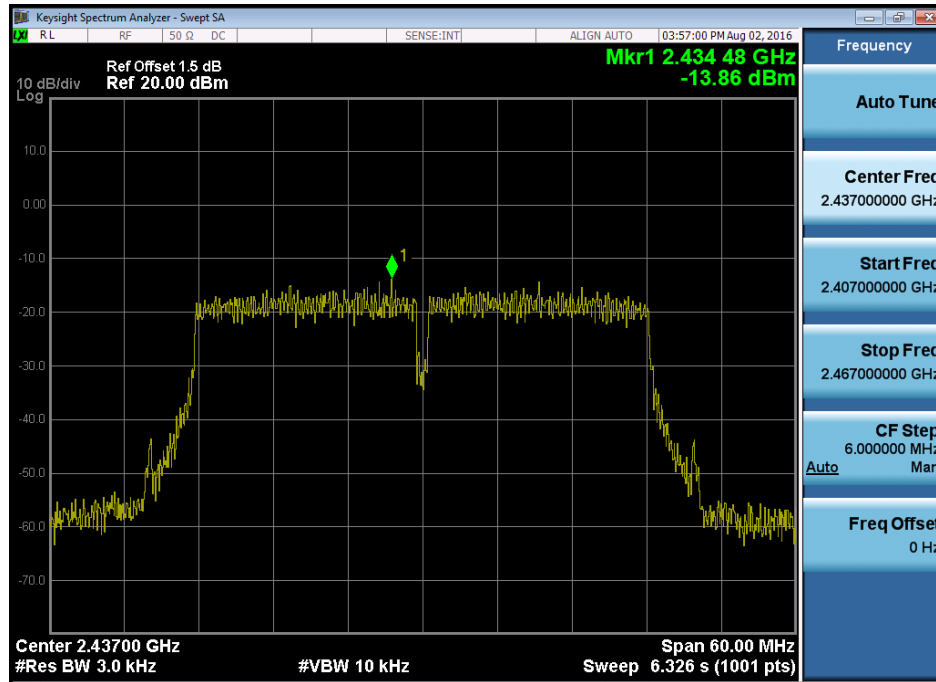
Test Mode : TX N-40M Mode_CH03/06/09_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.21	0.0151	8.00	Complies
2437	-13.86	0.0411	8.00	Complies
2452	-17.59	0.0174	8.00	Complies

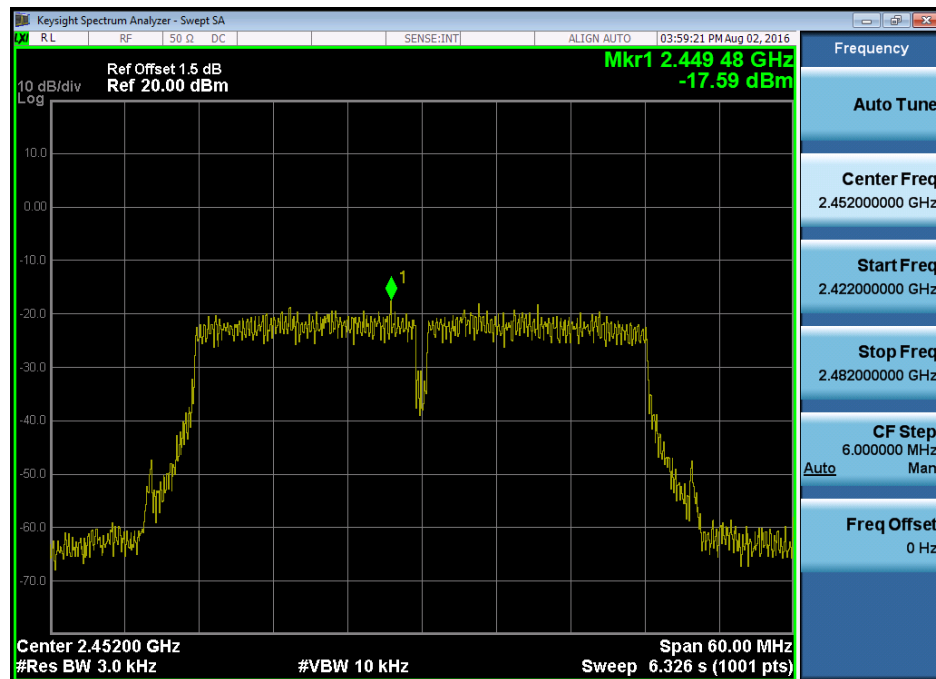
TX CH03



TX CH06



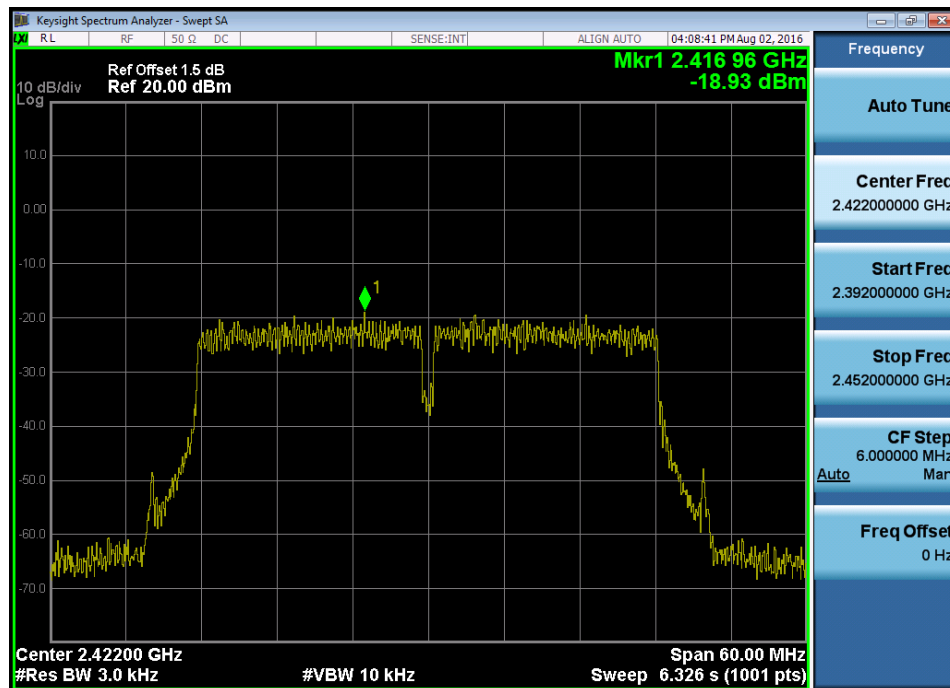
TX CH09



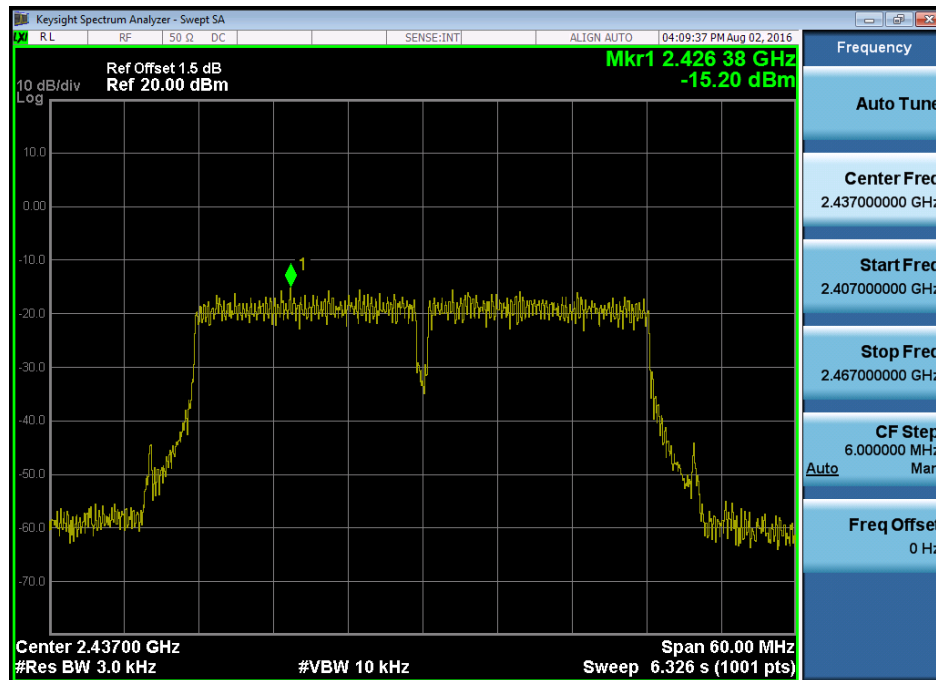
Test Mode : TX N-40M Mode_CH03/06/09_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.93	0.0128	8.00	Complies
2437	-15.21	0.0301	8.00	Complies
2452	-18.30	0.0148	8.00	Complies

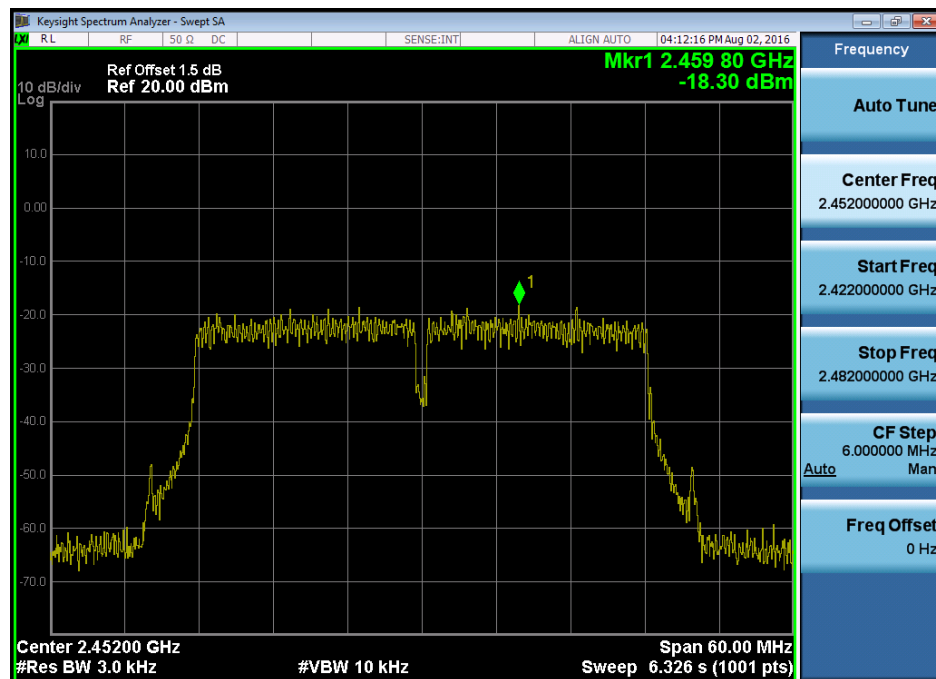
TX CH03



TX CH06



TX CH09



Test Mode : TX N-40M Mode_CH03/06/09_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.23	0.0300	8.00	Complies
2437	-11.55	0.0700	8.00	Complies
2452	-15.23	0.0300	8.00	Complies