

FCC Radio Test Report

FCC ID: QISCRO-LX3

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

Project No. : 1701C155A
Equipment : Smart Phone
Model Name : CRO-L03,CRO-L23
Applicant : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

Date of Receipt : Jan. 18, 2017
Date of Test : Jan. 18, 2017 ~ Feb. 27, 2017
Issued Date : Mar. 23, 2017
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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1701C155	Original Report.	Feb. 28, 2017
BTL-FCCP-1-1701C155A	Compared with the original report (BTL-FCCP-1-1701C155), the model CRO-L23 is added and differences please see the below table. According to the differences description below table, CRO-L23 shares the same test data of CRO-L03 of the same bands which does not affect the test results of the test report.	Mar. 23, 2017

Model	CRO-L03	CRO-L23
Brand	HUAWEI	HUAWEI
2G Frequency	GSM/GPRS/EDEG 850//1900	GSM/GPRS/EDEG 850//1900
3G Frequency	UMTS: B2/B5	UMTS: B2/B5
4G Frequency	FDD-LTE:B2/B4/B5/B7	FDD-LTE:B2/B4/B5/B7
Hardware version	The same	The same
Software version	The difference	The difference
SIM Card	Single (Hardware GPIO level is tested by software to identify odd and even cards.)	Double Hardware GPIO level is tested by software to identify odd and even cards. The dual-slot is added through the hardware, others are the same; The only difference between CRO-L03 and CRO-L23 is: CRO-L03 is single SIM point, and the CRO-L23 is double SIM points.
Dimensions	The same	The same
Appearance	The same	The same
main antenna	The same	The same
BT/Wi-Fi antenna	The same	The same
GPS antenna	The same	The same
PA(GSM)	The same	The same
PA(UMTS/FDD)	The same	The same

1. CERTIFICATION

Equipment : Smart Phone
Brand Name : HUAWEI
Model Name : CRO-L03,CRO-L23
Applicant : Huawei Technologies Co.,Ltd.
Manufacturer : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District Shenzhen China
Factory : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District Shenzhen China
Date of Test : Jan. 18, 2017 ~ Feb. 27, 2017
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-1-1701C155A) 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, Subpart C (15.247)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247 (a)(1)	Hopping Channel Separation	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247 (b)(1)	Peak Output Power	PASS	
15.247(d) 15.209	Radiated Spurious Emission	PASS	
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
15.247 (a)(1)(iii)	Dwell Time	PASS	
15.205	Restricted Bands	PASS	
15.203	Antenna Requirement	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 measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

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

C. Other Measurement:

Test Item	Uncertainty
Conducted Spurious Emission	2.67dB
Hopping Channel Separation	53.46MHz
Peak Output Power	0.95dB
Number of Hopping Frequency	53.46MHz
Temperature	0.08°C
Humidity	1.5%

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	Smart Phone	
Brand Name	HUAWEI	
Model Name	CRO-L03,CRO-L23	
Model Difference	Please refer to page 6.	
Output Power (Max.)	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps) $\pi/4$ -DQPSK(2Mbps)
	Bit Rate of Transmitter	8-DPSK(3Mbps)
	Output Power Max.	7.52 dBm(1Mbps) 6.95 dBm(3Mbps)
Power Source	#1 DC Voltage supplied from AC/DC adapter. #2 Battery Supplied.	
Power Rating	#1:AC 100–240V 50/60Hz DC 5V 1A #2:DC 3.82V 2200mAh	
HW Version	HL1CROM	
SW Version	CRO-L03:Cairo-L03C469B015 CRO-L23:Cairo-L23C469B022	

Note:

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

Item	Mfr/Brand	Model.
Battery	SCUD (FUJIAN) Electronics Co., Ltd	HB3742A0EZC+
	Shenzhen Desay Battery Tech Co., Ltd.	
USB Cable	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	CUBB01M-HC208-DH
	HONGLIN TECHNOLOGY CO.,LTD	130-26654
	Luxshare Precision Industry Co., Ltd.	L99U2013-CS-H
Earphone	Jiangxi Lianchuang Hongsheng Electronic Co.,LTD	MEMD1632B580C00
	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD	1311-3291-3.5mm-229
	MERRY ELECTRONICS CO., LTD.	EMC309-001
Adapter	HUIZHOU BYD ELECTRONIC CO., LTD.	HW-050100U01
	Shenzhen Huntkey Electric Co., Ltd.	
	DONG GUAN PHITEK ELECTRONICS CO., LTD.	

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	2.6

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible 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 Mode Note (1)

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

For Conducted Emission	
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode Note (1)

Note:

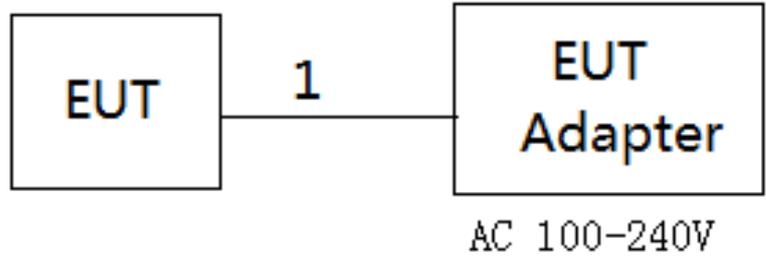
- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

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 FHSS

Test Software Version	N/A		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	7	7	7
Parameters(3Mbps)	7	7	7

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.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	USB 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

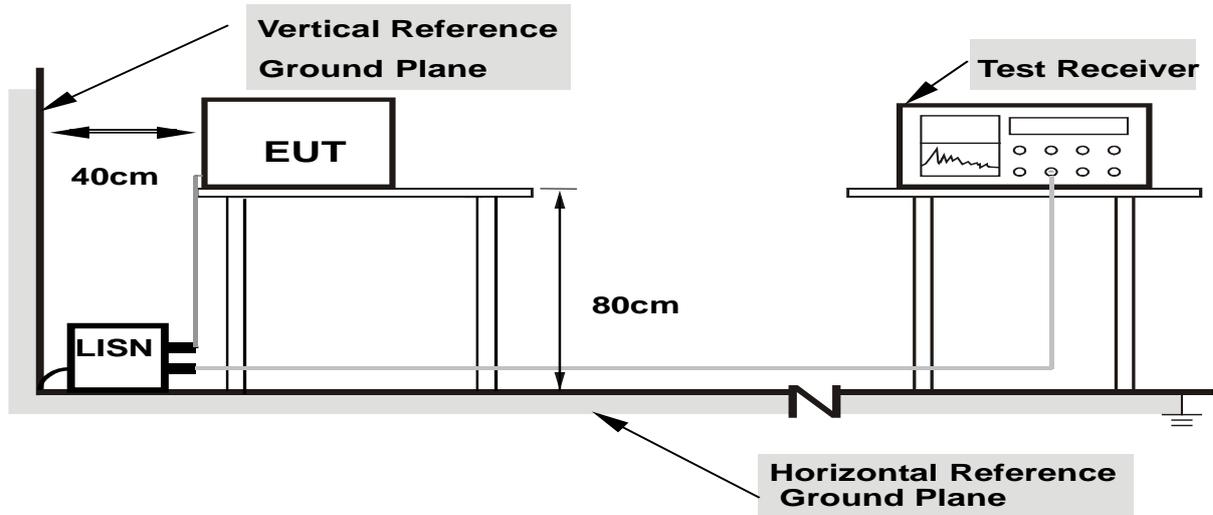
4.1.2 TEST PROCEDURE

- 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 equipment 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 configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

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.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz -1000MHz)

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.

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)	Band edge at 3m (dBµV/m)		Harmonic at 1.5m (dBµV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	80 (Note 5)	60(Note 5)

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C/RSS-247.
- (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

(5)

$$FS_{limit} = FS_{max} - 20 \log \left(\frac{d_{limit}}{d_{measure}} \right)$$

$$20 \log d_{limit}/d_{measure} = 20 \log 3/1.5 = 6 \text{dB.}$$

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

Spectrum 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

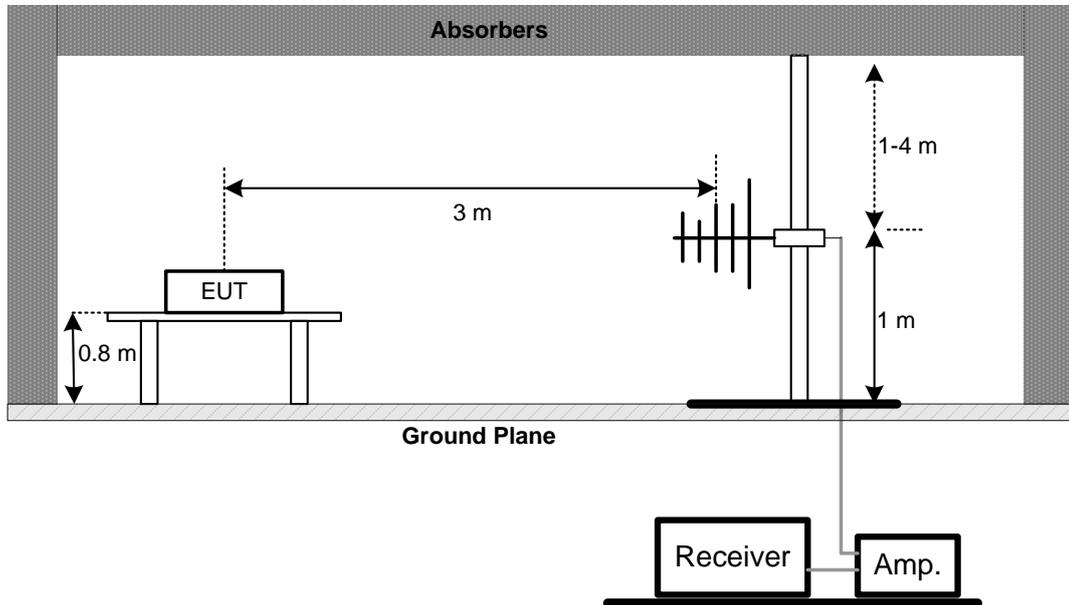
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m or 1.5m 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)
- c. 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.
- d. 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).
- e. 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.
- f. The initial step in collecting radiated 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.
- g. 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)
- h. 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)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

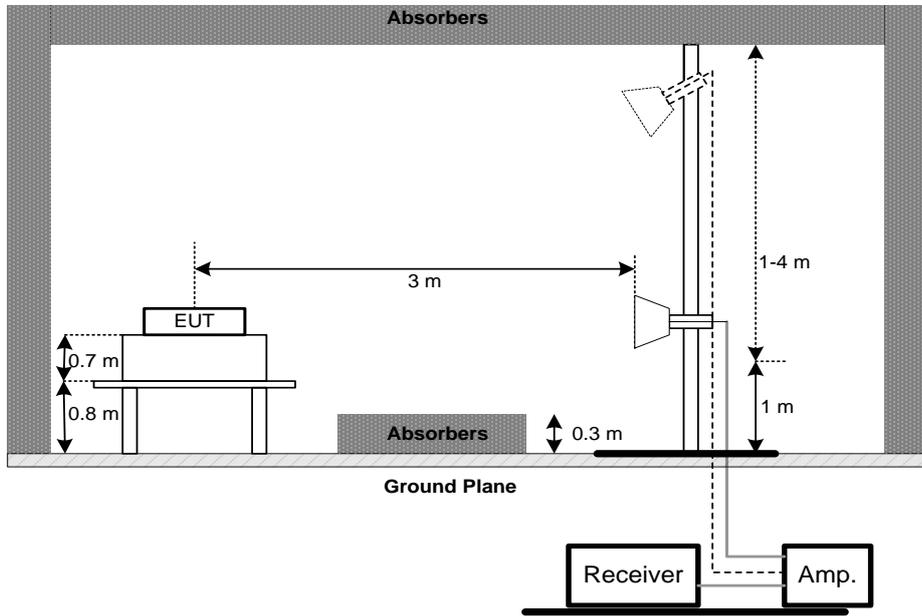
No deviation

4.2.4 TEST SETUP

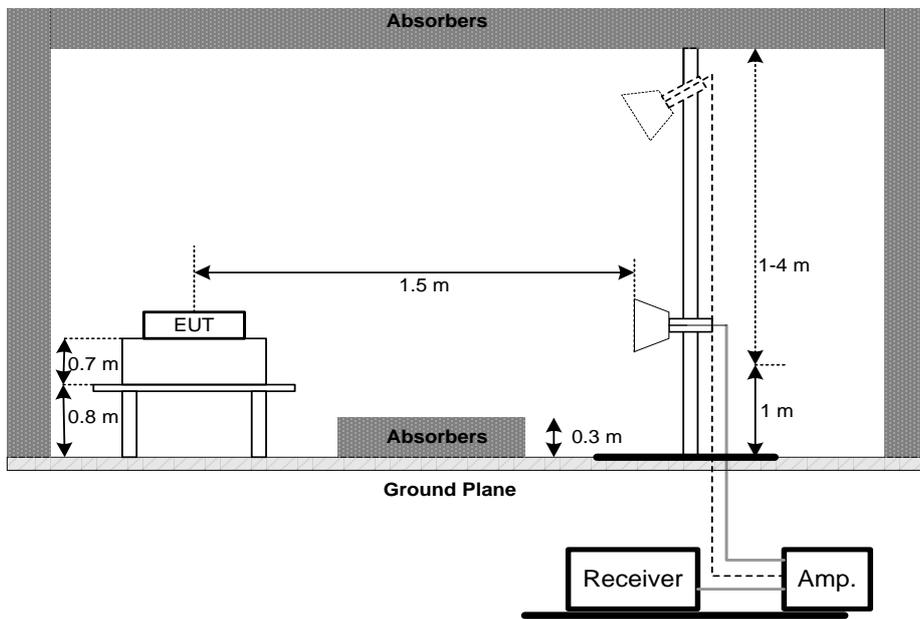
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



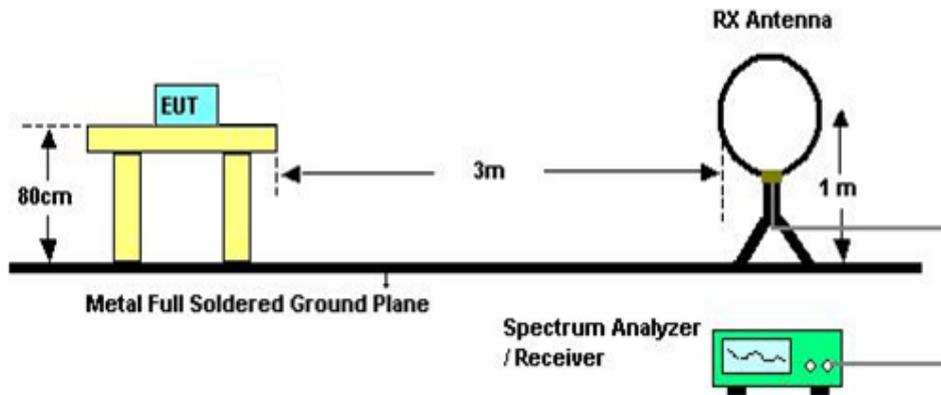
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz
 Band edge



Harmonic



(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. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

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. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

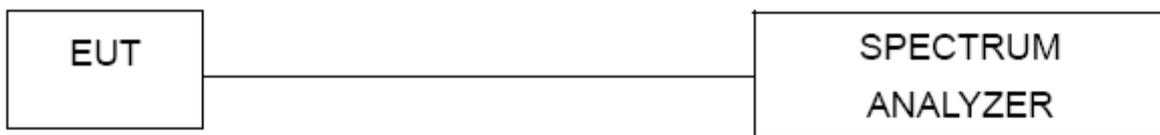
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- k. DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

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. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 KHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

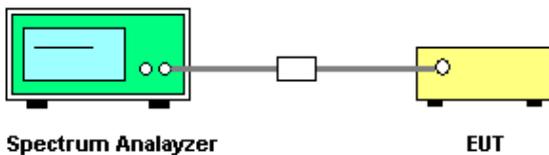
7.1.1 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels
 - Resolution (or IF) Bandwidth (RBW) \geq 1% of the span
 - Video (or Average) Bandwidth (VBW) \geq RBW
 - Sweep = Auto
 - Detector function = Peak
 - Trace = Max Hold

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT TEST CONDITIONS

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

7.1.5 TEST RESULTS

Please refer to the Attachment G

8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz (20dB Bandwidth) / 30 KHz (Channel Separation)
VBW	100 KHz (20dB Bandwidth) / 100 KHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

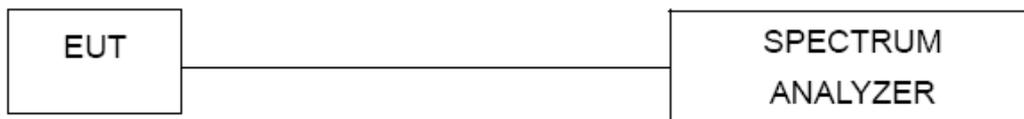
8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep Time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

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. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	1 Watt or 30dBm (hopping channel >75) 0.125Watt or 21dBm (hopping channel <75)	2400-2483.5	PASS

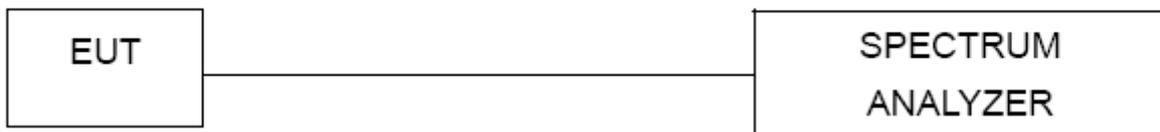
9.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 1MHz/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP



9.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

9.1.5 EUT TEST CONDITIONS

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

9.1.6 TEST RESULTS

Please refer to the Attachment I

10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 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.

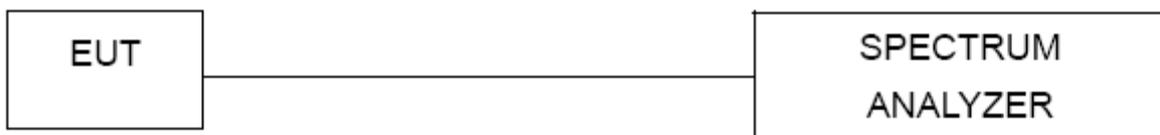
10.1.1 TEST PROCEDURE

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

10.1.2 DEVIATION FROM STANDARD

No deviation.

10.1.3 TEST SETUP



10.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

10.1.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

10.1.6 TEST RESULTS

Please refer to the Attachment J

11. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
2	LISN	EMCO	3816/2	52765	Mar. 27, 2017
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 27, 2017
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 27, 2017
5	Cable	emci	RG223(9KHz-30 MHz)(5m)	N/A	Mar. 09, 2018
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	Schwarzbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	Jun. 27, 2017
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Amplifier	Agilent	8449B	3008A02274	Mar. 09, 2018
9	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
10	Antenna	EM	EM-6876-1	230	Jul. 08, 2017
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 16, 2017
13	Controller	MF	MF-7802	MF780208416	N/A
14	Cable	emci	EMC104-SM-S M-12000(12m)	N/A	Jul. 06, 2017

Number of Hopping Channel					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Average Time of Occupancy					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

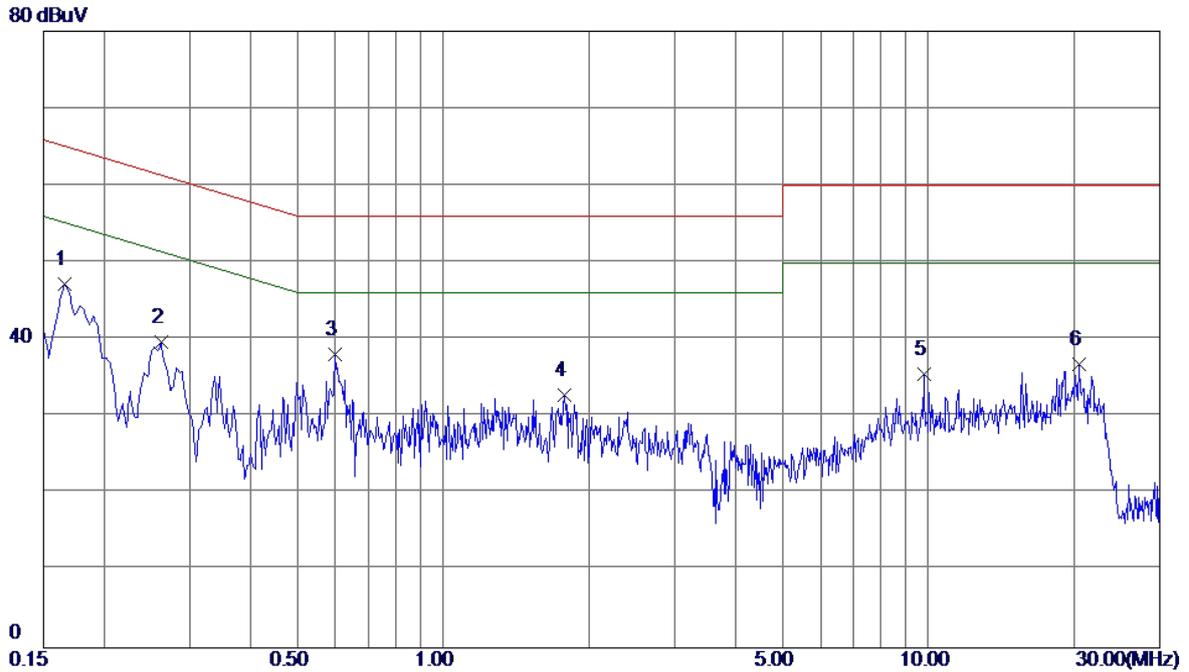
Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

Remark: "N/A" denotes no model name, serial no. or calibration specified.
 All calibration period of equipment list is one year.

ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode_Adapter: BYD

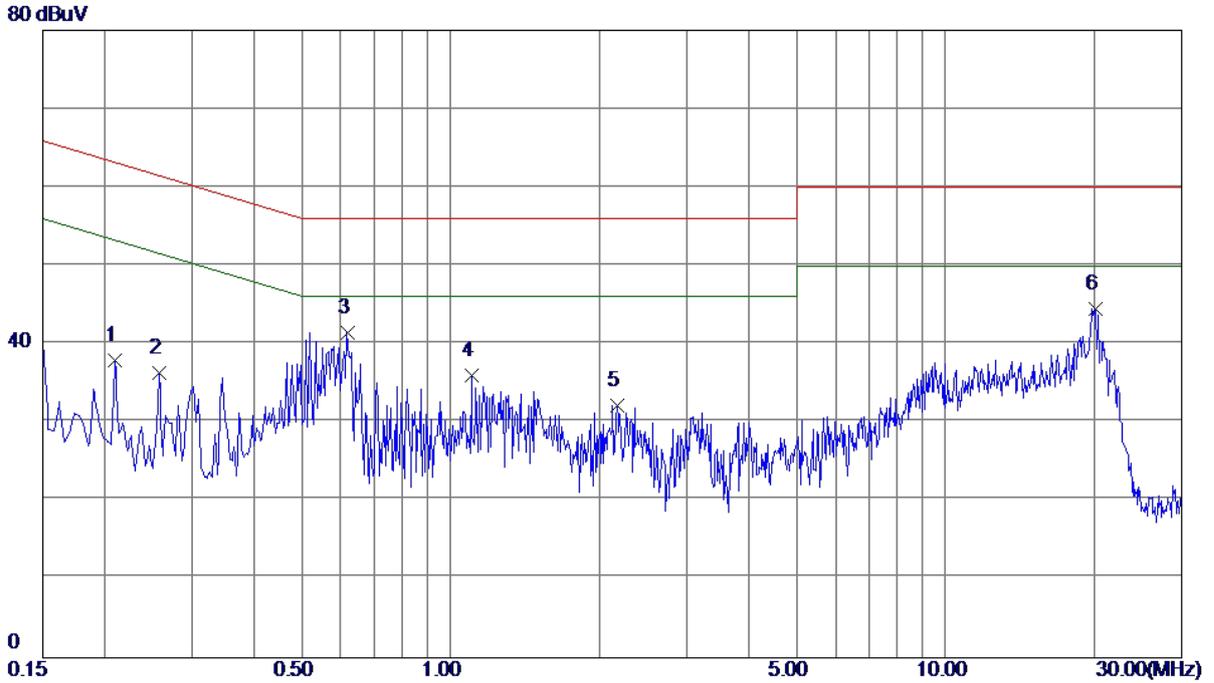
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1660	37.69	9.57	47.26	65.16	-17.90	Peak	
2	0.2620	30.15	9.57	39.72	61.37	-21.65	Peak	
3	0.5980	28.34	9.70	38.04	56.00	-17.96	Peak	
4	1.7780	22.80	9.99	32.79	56.00	-23.21	Peak	
5	9.7860	25.11	10.48	35.59	60.00	-24.41	Peak	
6	20.4260	26.00	10.80	36.80	60.00	-23.20	Peak	

Test Mode: TX Mode_ Adapter: BYD

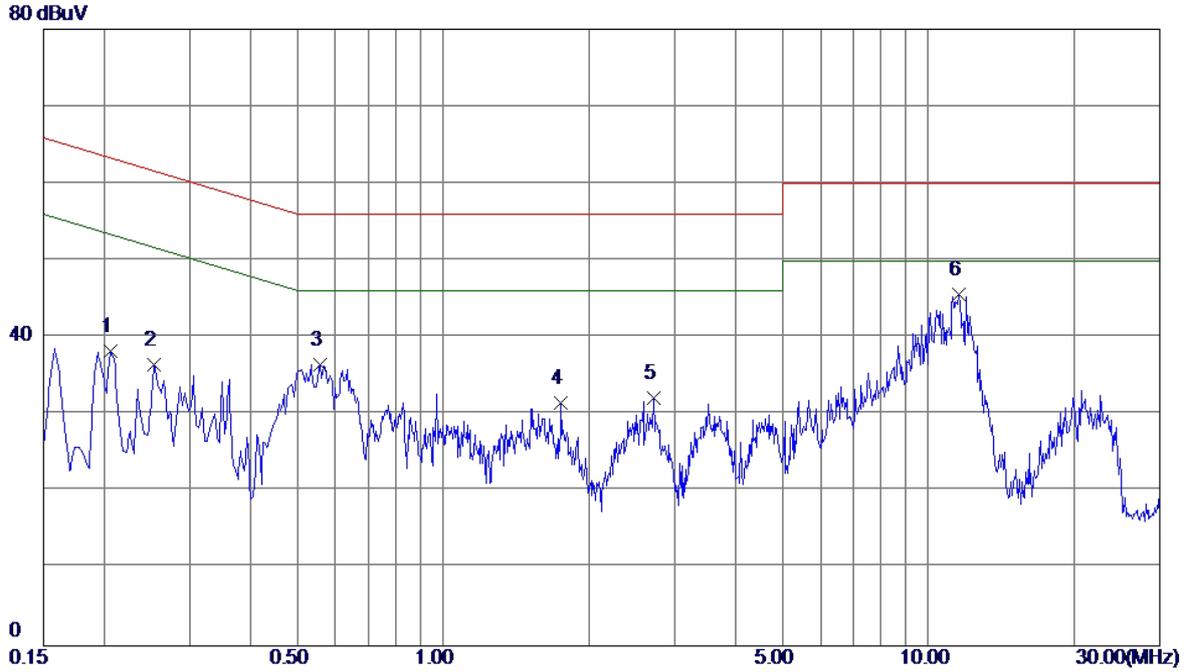
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2100	28.39	9.57	37.96	63.21	-25.25	Peak	
2	0.2580	26.75	9.57	36.32	61.50	-25.18	Peak	
3 *	0.6180	31.92	9.50	41.42	56.00	-14.58	Peak	
4	1.1019	26.26	9.75	36.01	56.00	-19.99	Peak	
5	2.1740	22.37	9.85	32.22	56.00	-23.78	Peak	
6	20.1259	33.62	10.90	44.52	60.00	-15.48	Peak	

Test Mode: TX Mode_ Adapter: PHITEK

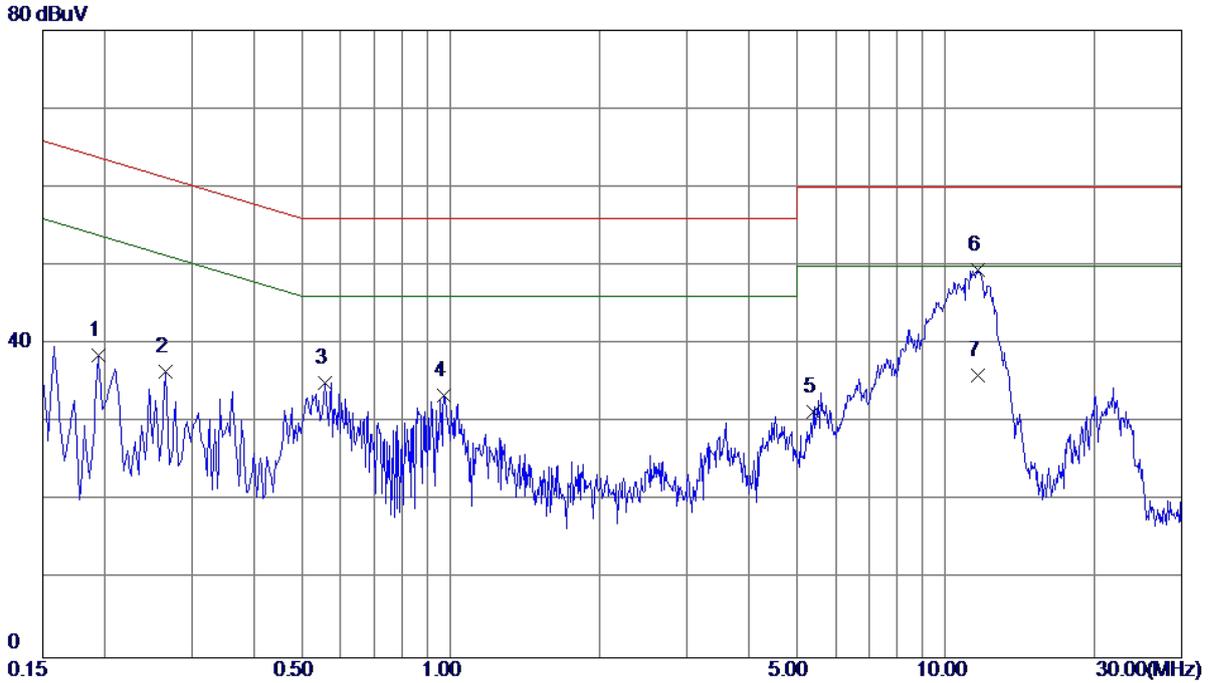
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2060	28.64	9.57	38.21	63.37	-25.16	Peak	
2	0.2540	26.98	9.57	36.55	61.63	-25.08	Peak	
3	0.5580	26.80	9.70	36.50	56.00	-19.50	Peak	
4	1.7500	21.55	9.99	31.54	56.00	-24.46	Peak	
5	2.7139	21.92	10.25	32.17	56.00	-23.83	Peak	
6 *	11.5860	35.11	10.56	45.67	60.00	-14.33	Peak	

Test Mode: TX Mode_Adapter: PHITEK

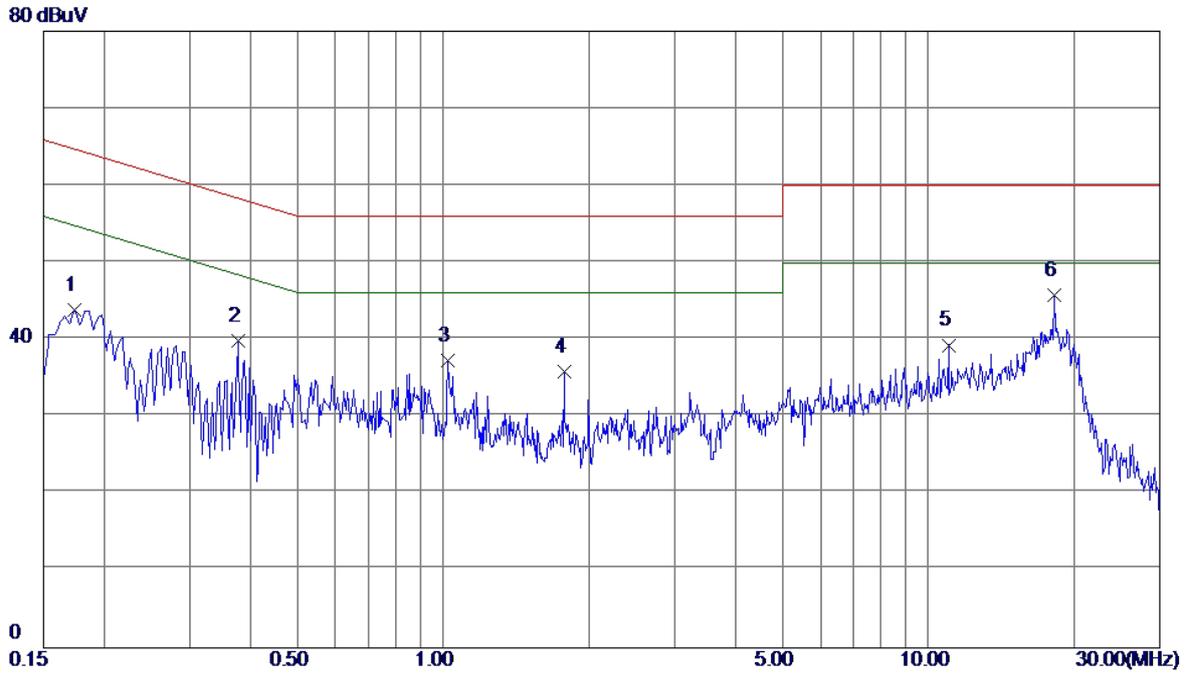
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1940	29.06	9.55	38.61	63.86	-25.25	Peak	
2	0.2660	26.95	9.57	36.52	61.24	-24.72	Peak	
3	0.5580	25.61	9.50	35.11	56.00	-20.89	Peak	
4	0.9700	23.66	9.74	33.40	56.00	-22.60	Peak	
5	5.3940	21.07	10.24	31.31	60.00	-28.69	Peak	
6 *	11.5940	38.79	10.62	49.41	60.00	-10.59	Peak	
7	11.5940	25.34	10.62	35.96	50.00	-14.04	AVG	

Test Mode: TX Mode_Adapter: Huntkey

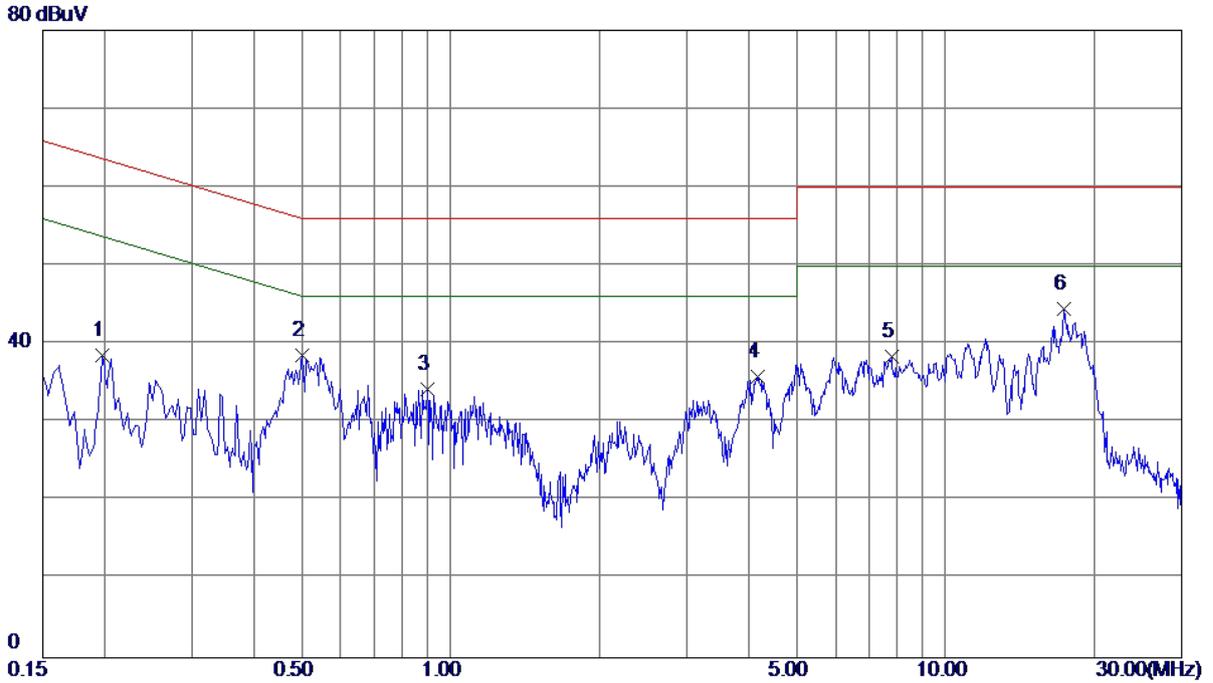
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1740	34.30	9.57	43.87	64.77	-20.90	Peak	
2	0.3780	30.30	9.58	39.88	58.32	-18.44	Peak	
3	1.0220	27.48	9.84	37.32	56.00	-18.68	Peak	
4	1.7740	25.80	9.99	35.79	56.00	-20.21	Peak	
5	11.0180	28.75	10.53	39.28	60.00	-20.72	Peak	
6 *	18.1420	35.01	10.76	45.77	60.00	-14.23	Peak	

Test Mode: TX Mode _ Adapter: Huntkey

Neutral

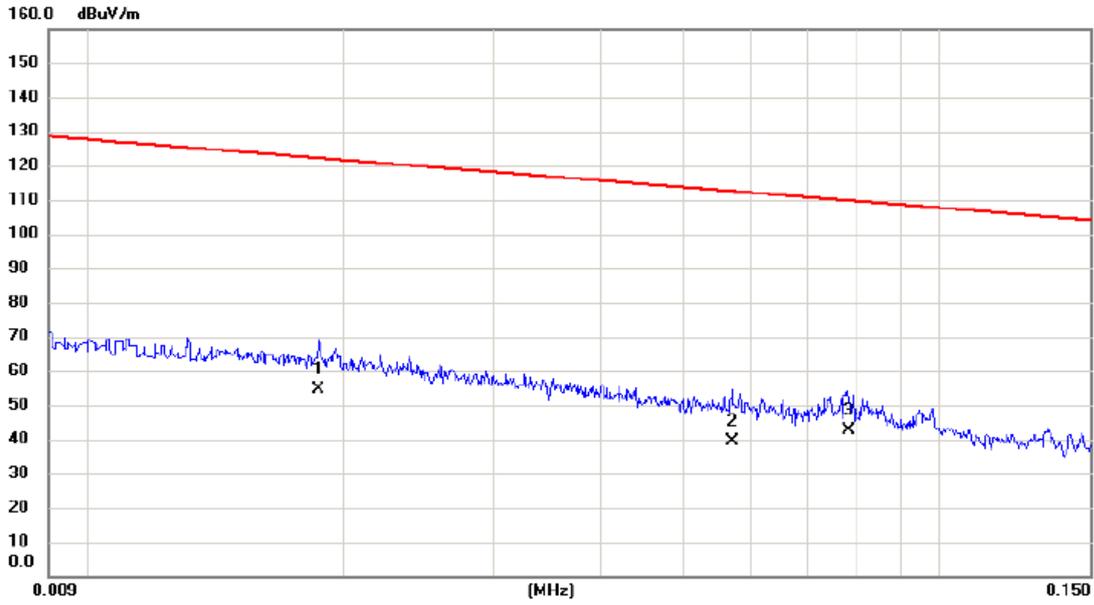


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1980	28.98	9.56	38.54	63.69	-25.15	Peak	
2	0.5020	29.05	9.49	38.54	56.00	-17.46	Peak	
3	0.8980	24.48	9.73	34.21	56.00	-21.79	Peak	
4	4.1860	25.70	10.12	35.82	56.00	-20.18	Peak	
5	7.7900	28.03	10.30	38.33	60.00	-21.67	Peak	
6 *	17.3779	33.63	10.79	44.42	60.00	-15.58	Peak	

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

Test Mode: TX Mode_ Adapter: BYD

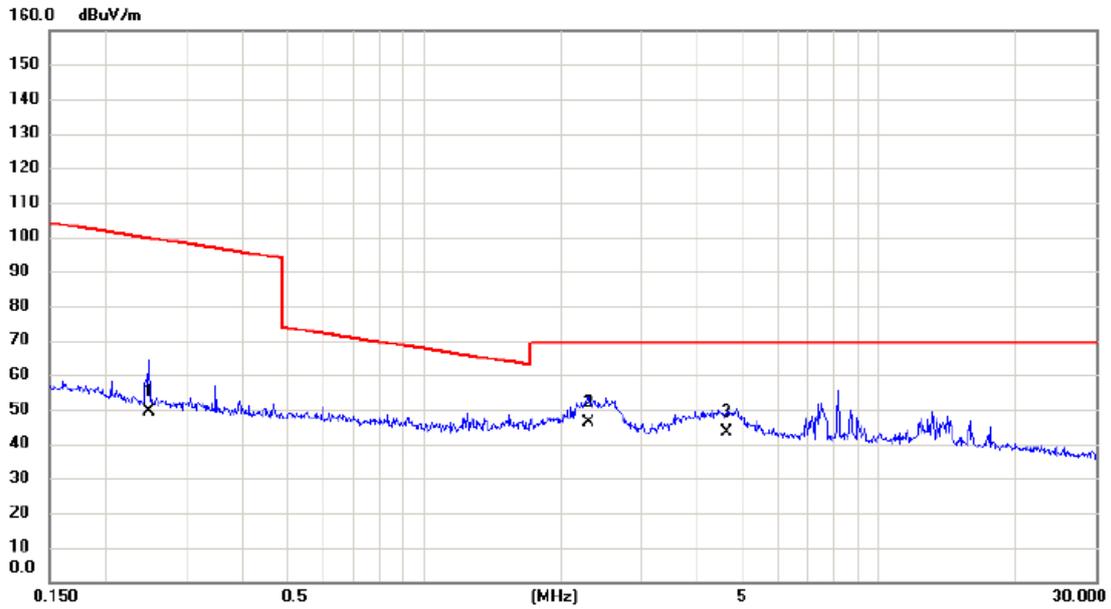
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0187	31.10	23.60	54.70	122.17	-67.47	AVG	
2		0.0570	19.50	19.75	39.25	112.49	-73.24	AVG	
3	*	0.0781	23.20	19.39	42.59	109.75	-67.16	AVG	

Test Mode: TX Mode_ Adapter: BYD

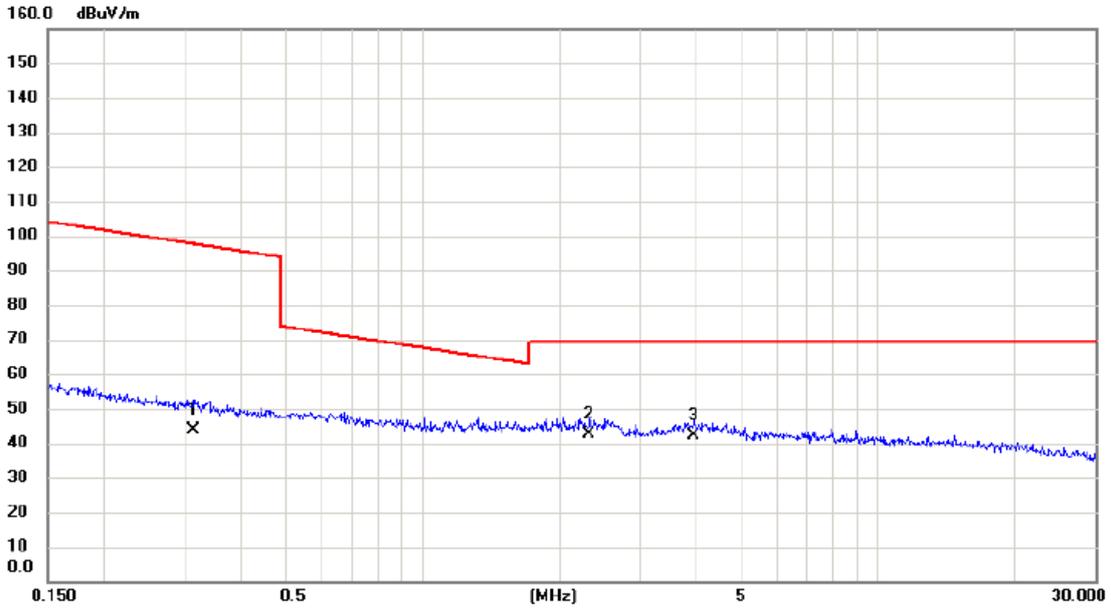
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2481	30.80	18.65	49.45	99.71	-50.26	AVG	
2	*	2.2968	28.70	17.52	46.22	69.54	-23.32	QP	
3		4.6223	25.90	17.46	43.36	69.54	-26.18	QP	

Test Mode: TX Mode_ Adapter: BYD

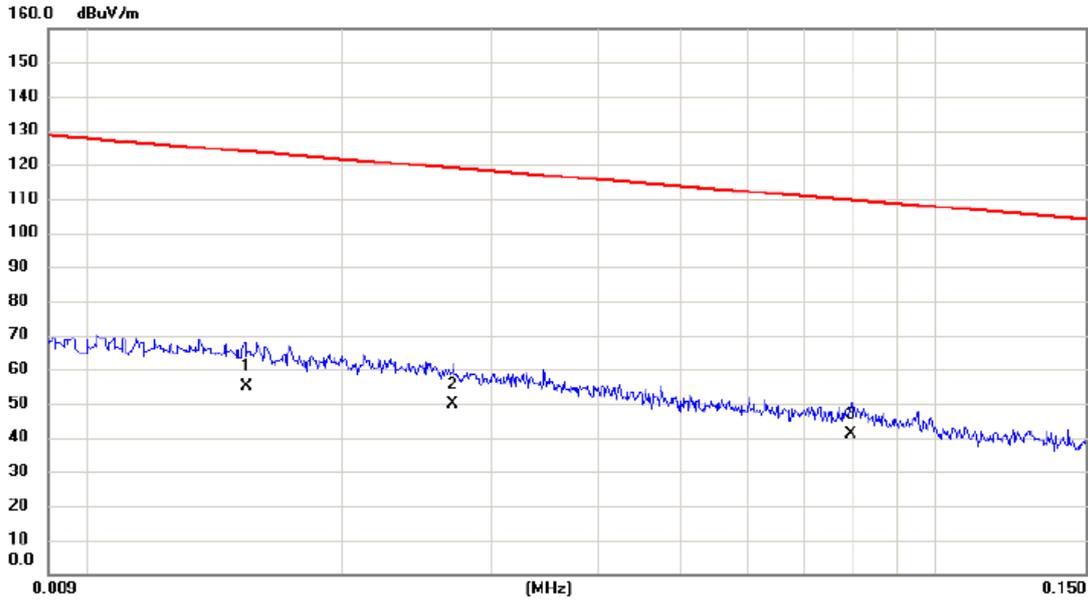
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3133	25.33	18.57	43.90	97.69	-53.79	AVG	
2	*	2.3213	25.12	17.49	42.61	69.54	-26.93	QP	
3		3.9430	23.45	18.63	42.08	69.54	-27.46	QP	

Test Mode: TX Mode_ Adapter: BYD

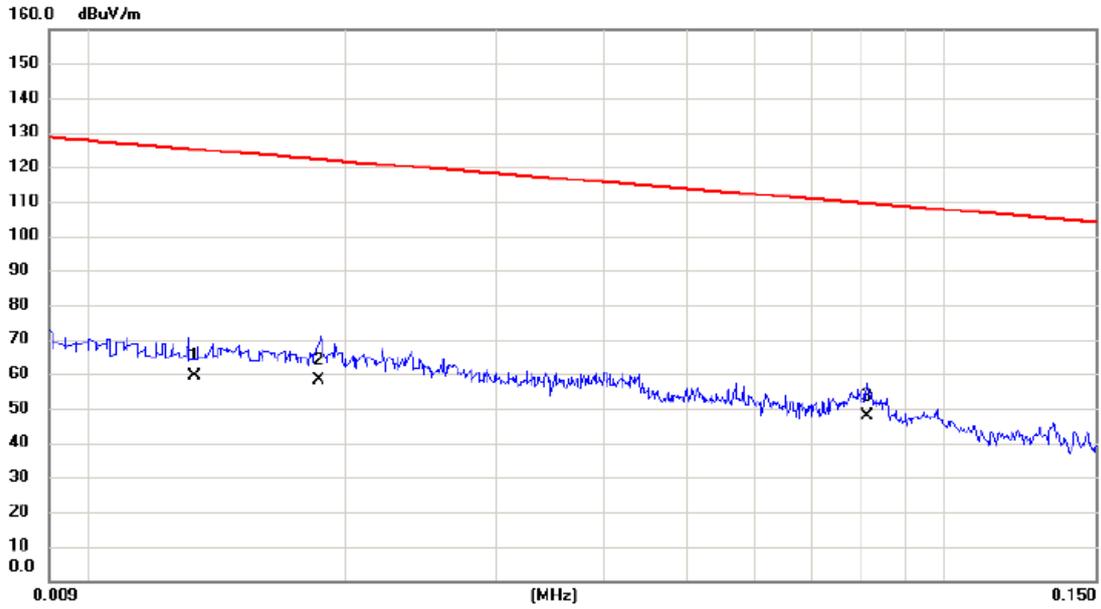
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0154	31.05	23.80	54.85	123.85	-69.00	AVG	
2		0.0270	27.14	22.66	49.80	118.98	-69.18	AVG	
3	*	0.0793	21.75	19.34	41.09	109.62	-68.53	AVG	

Test Mode: TX Mode_ Adapter: PHITEK

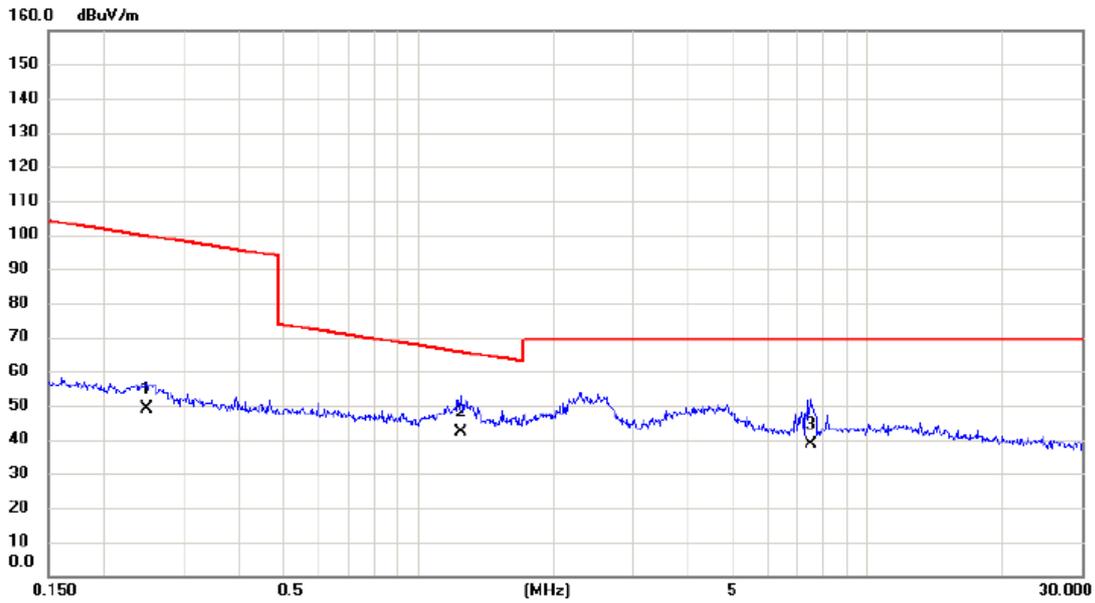
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.0133	35.49	23.92	59.41	125.13	-65.72	AVG	
2		0.0186	34.66	23.60	58.26	122.21	-63.95	AVG	
3	*	0.0812	28.36	19.26	47.62	109.41	-61.79	AVG	

Test Mode: TX Mode_ Adapter: PHITEK

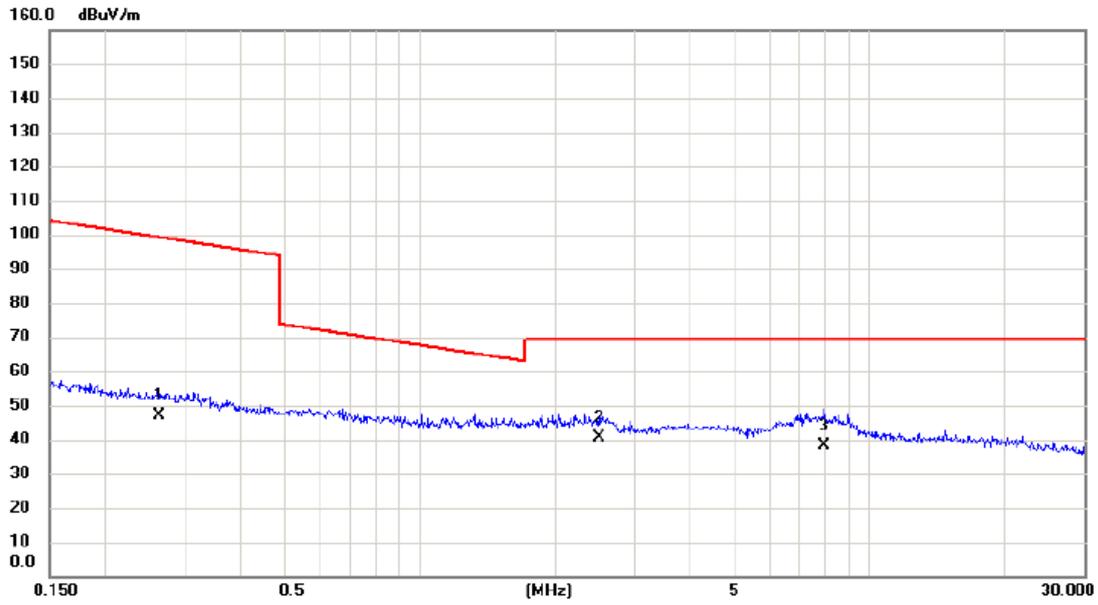
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2482	30.31	18.65	48.96	99.71	-50.75	AVG	
2	*	1.2465	24.63	17.74	42.37	65.69	-23.32	QP	
3		7.4853	22.49	16.26	38.75	69.54	-30.79	QP	

Test Mode: TX Mode_ Adapter: PHITEK

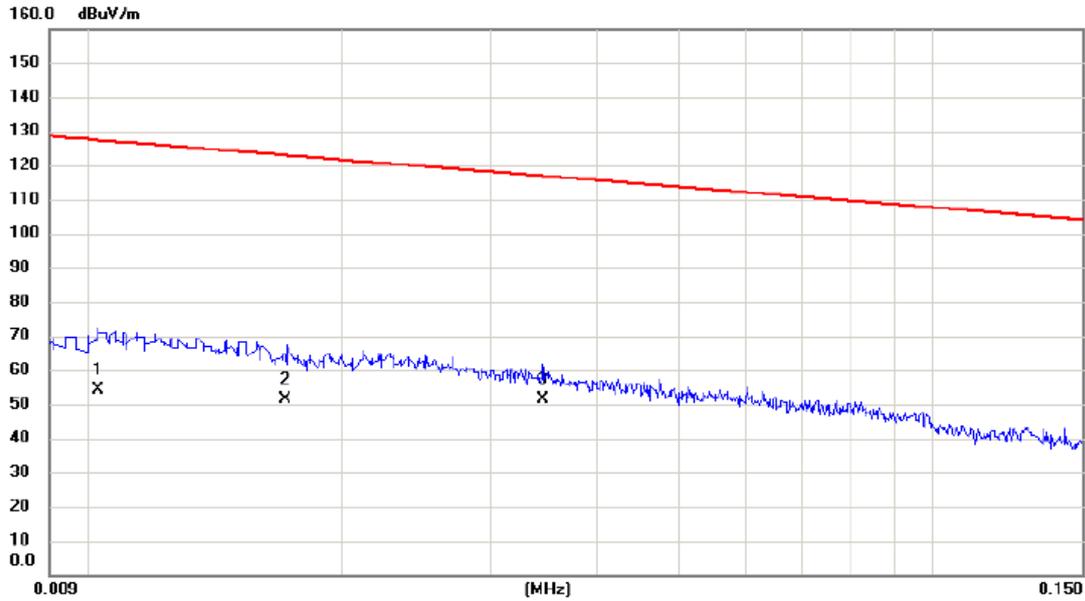
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2635	28.32	18.63	46.95	99.19	-52.24	AVG	
2	*	2.5128	23.44	17.25	40.69	69.54	-28.85	QP	
3		7.9372	22.16	16.19	38.35	69.54	-31.19	QP	

Test Mode: TX Mode_ Adapter: PHITEK

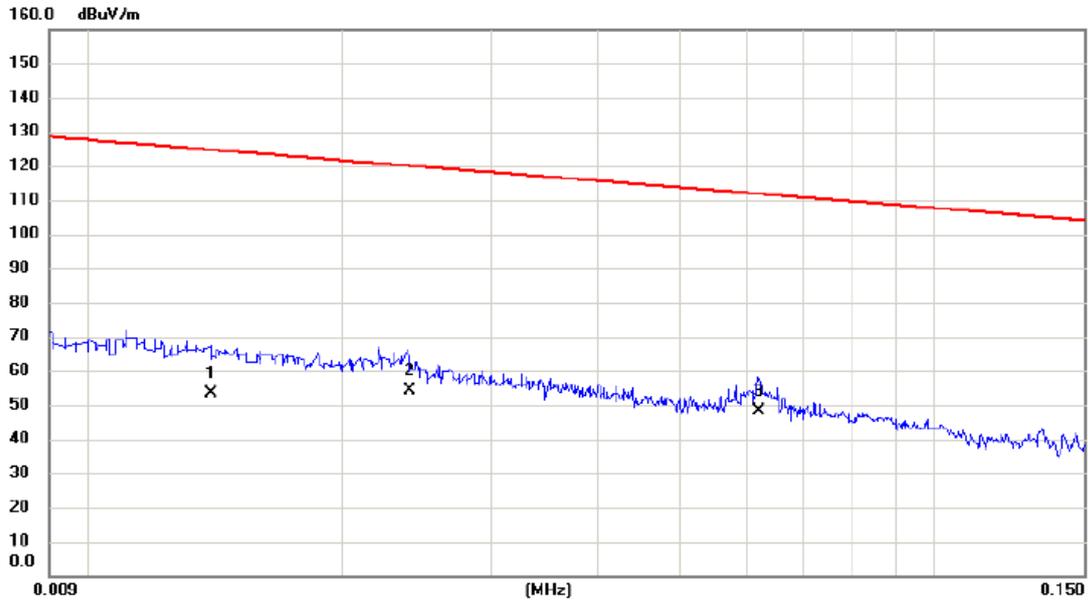
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.0103	30.28	24.10	54.38	127.35	-72.97	AVG	
2		0.0171	27.56	23.69	51.25	122.94	-71.69	AVG	
3	*	0.0346	29.71	21.72	51.43	116.82	-65.39	AVG	

Test Mode: TX Mode_ Adapter: Huntkey

Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0140	29.34	23.88	53.22	124.68	-71.46	AVG	
2		0.0240	31.28	23.03	54.31	120.00	-65.69	AVG	
3	*	0.0620	28.66	19.69	48.35	111.76	-63.41	AVG	

Test Mode: TX Mode_ Adapter: Huntkey

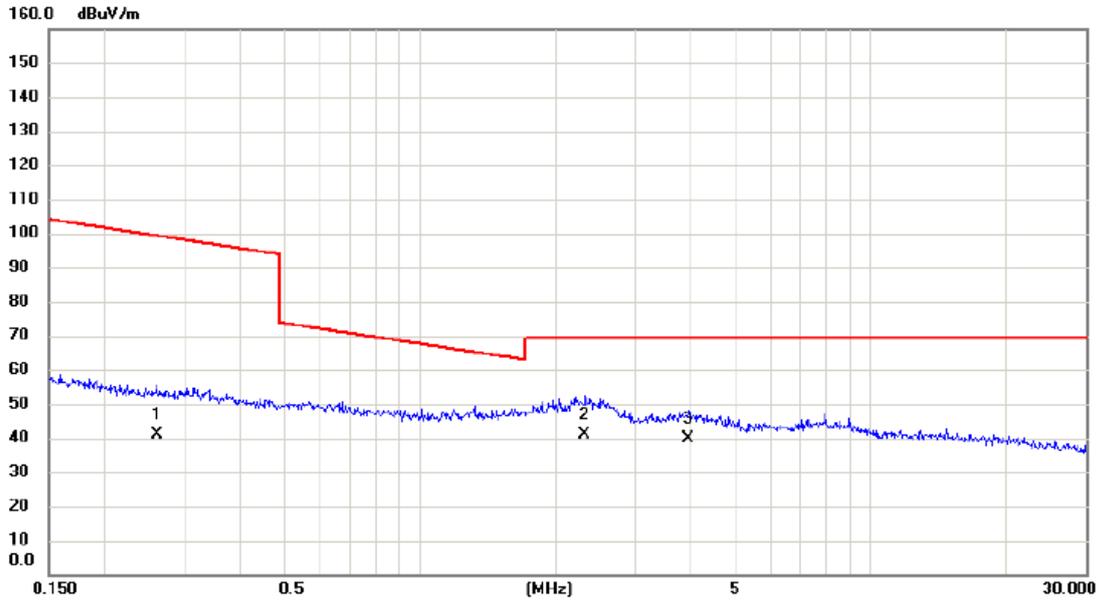
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3461	25.66	18.54	44.20	96.82	-52.62	AVG	
2	7.4860	21.38	16.26	37.64	69.54	-31.90	QP	
3 *	15.8868	23.17	15.54	38.71	69.54	-30.83	QP	

Test Mode: TX Mode_ Adapter: Huntkey

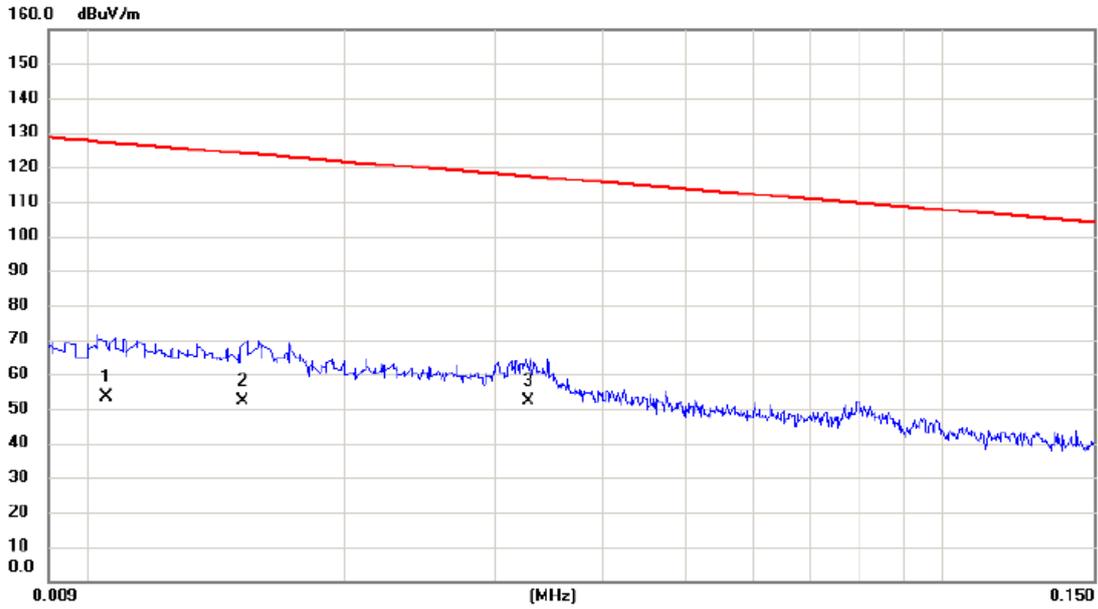
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2611	22.47	18.64	41.11	99.27	-58.16	AVG	
2	*	2.3226	23.64	17.49	41.13	69.54	-28.41	QP	
3		3.9427	21.13	18.63	39.76	69.54	-29.78	QP	

Test Mode: TX Mode_ Adapter: Huntkey

Ant 90°

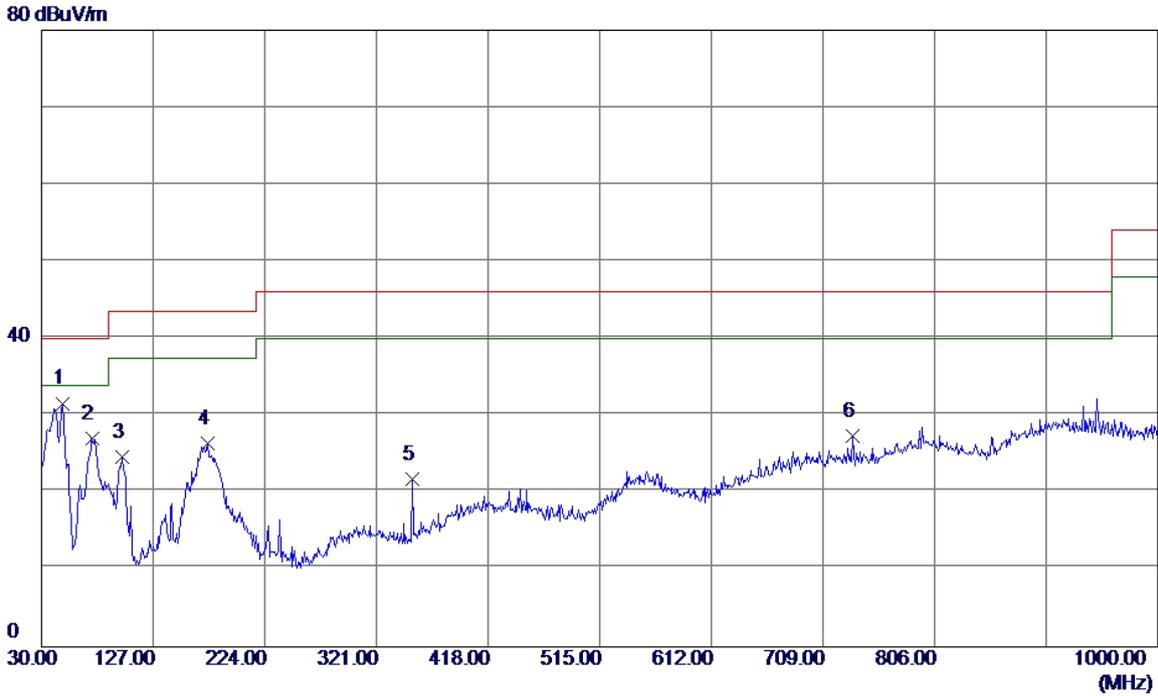


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0105	29.25	24.09	53.34	127.18	-73.84	AVG	
2		0.0152	28.36	23.81	52.17	123.97	-71.80	AVG	
3	*	0.0328	30.26	21.94	52.20	117.29	-65.09	AVG	

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

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: BYD

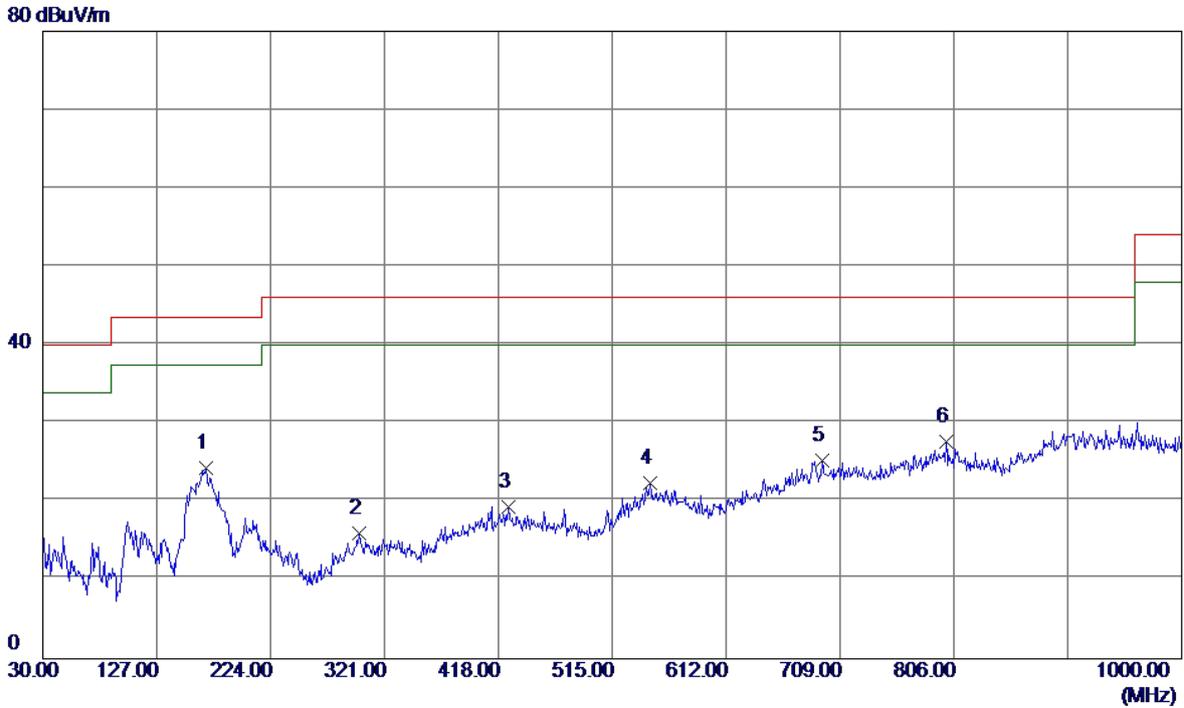
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	48.4300	44.71	-13.11	31.60	40.00	-8.40	Peak	
2	73.6500	43.55	-16.57	26.98	40.00	-13.02	Peak	
3	99.8399	40.13	-15.52	24.61	43.50	-18.89	Peak	
4	174.5300	38.97	-12.51	26.46	43.50	-17.04	Peak	
5	352.0400	32.85	-11.08	21.77	46.00	-24.23	Peak	
6	735.1900	29.34	-2.01	27.33	46.00	-18.67	Peak	

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: BYD

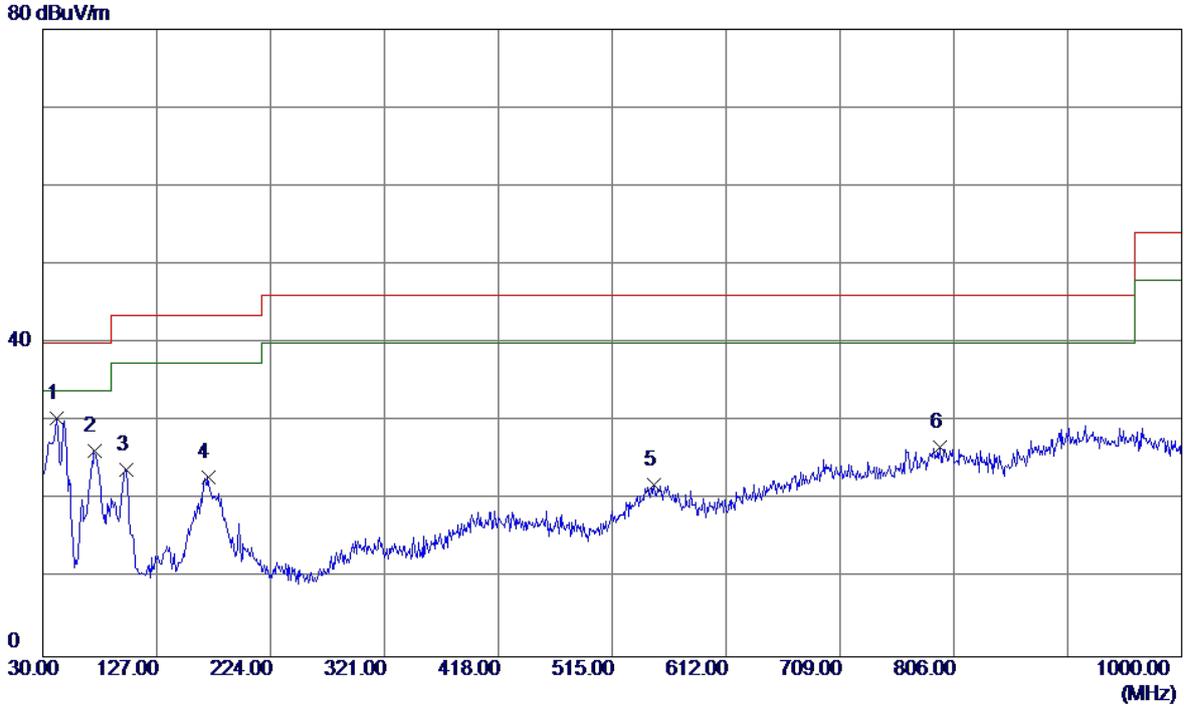
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	168.7100	36.51	-12.23	24.28	43.50	-19.22	Peak	
2	299.6600	26.15	-10.20	15.95	46.00	-30.05	Peak	
3	426.7300	27.25	-7.90	19.35	46.00	-26.65	Peak	
4	547.0100	27.25	-4.85	22.40	46.00	-23.60	Peak	
5	693.4800	27.61	-2.37	25.24	46.00	-20.76	Peak	
6 *	799.2100	27.43	0.22	27.65	46.00	-18.35	Peak	

Test Mode: TX 2480MHz _CH78_ 1Mbps_Adapter: BYD

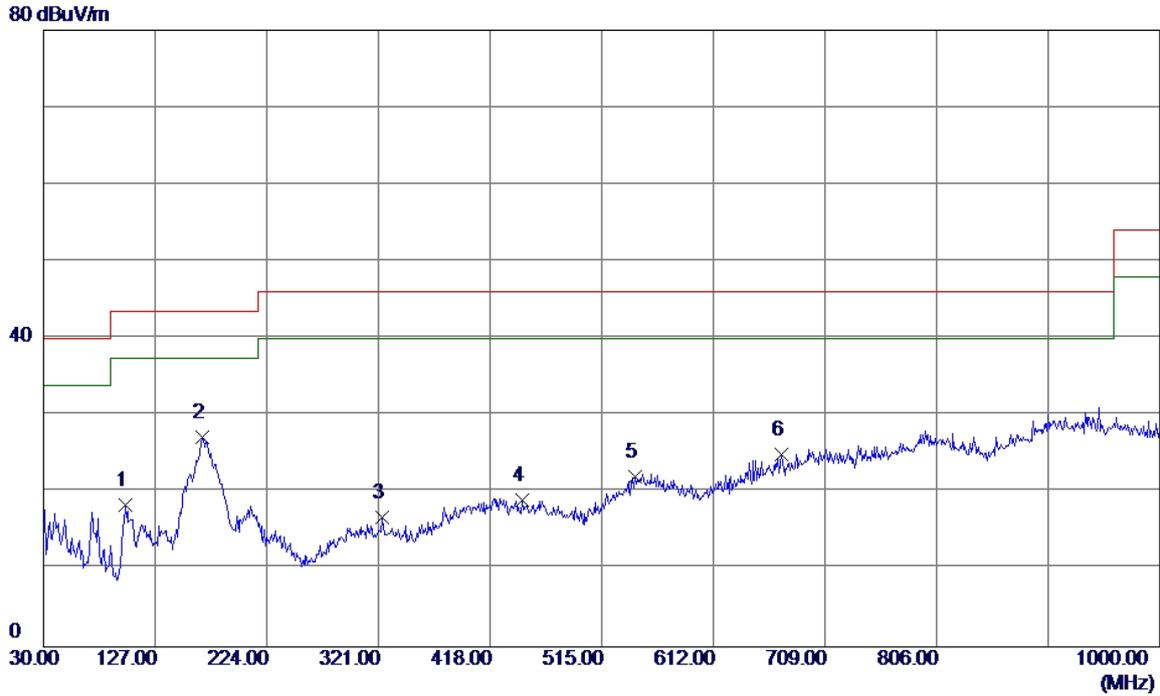
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	41.6400	44.00	-13.57	30.43	40.00	-9.57	Peak	
2	73.6500	42.79	-16.57	26.22	40.00	-13.78	Peak	
3	100.8100	39.26	-15.40	23.86	43.50	-19.64	Peak	
4	170.6500	35.17	-12.28	22.89	43.50	-20.61	Peak	
5	550.8900	26.53	-4.58	21.95	46.00	-24.05	Peak	
6	794.3600	26.78	0.01	26.79	46.00	-19.21	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps_Adapter: BYD

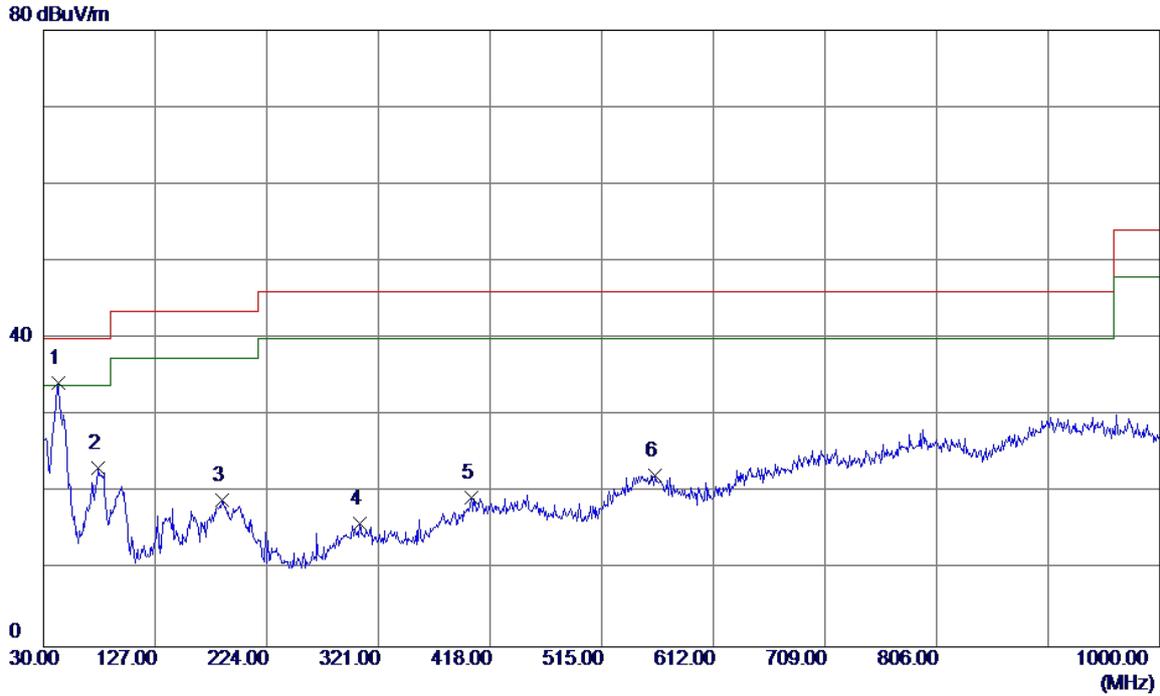
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	100.8100	33.74	-15.40	18.34	43.50	-25.16	Peak	
2 *	167.7400	39.49	-12.22	27.27	43.50	-16.23	Peak	
3	323.9100	27.54	-10.67	16.87	46.00	-29.13	Peak	
4	446.1300	26.96	-7.98	18.98	46.00	-27.02	Peak	
5	544.1000	27.22	-5.15	22.07	46.00	-23.93	Peak	
6	671.1700	28.26	-3.30	24.96	46.00	-21.04	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: PHITEK

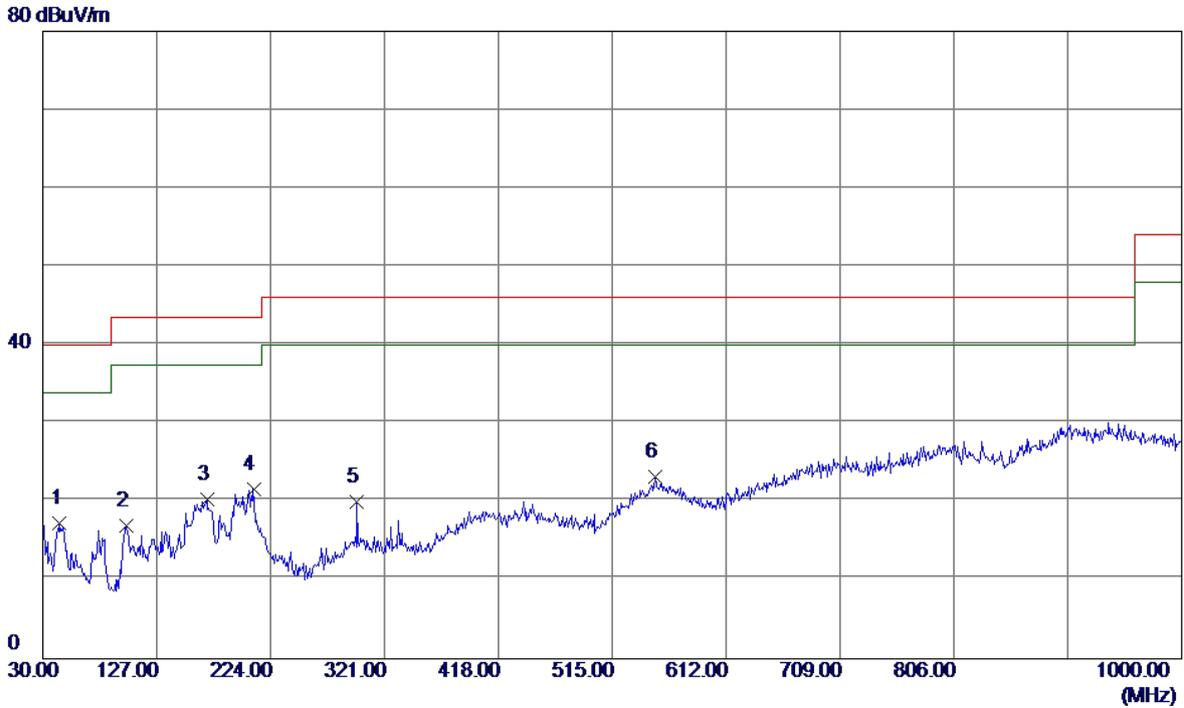
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	47.65	-13.36	34.29	40.00	-5.71	Peak	
2	77.5300	39.50	-16.31	23.19	40.00	-16.81	Peak	
3	185.2000	32.49	-13.41	19.08	43.50	-24.42	Peak	
4	304.5100	26.25	-10.26	15.99	46.00	-30.01	Peak	
5	401.5100	27.19	-7.79	19.40	46.00	-26.60	Peak	
6	561.5600	27.34	-5.12	22.22	46.00	-23.78	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: PHITEK

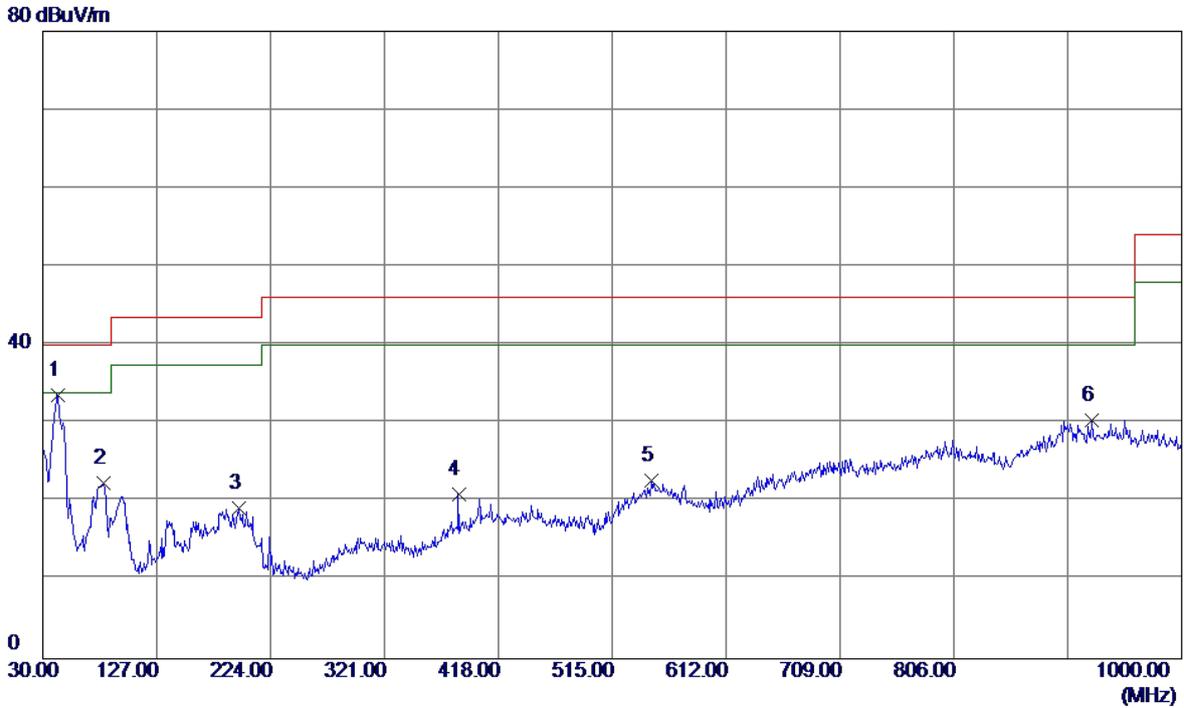
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	44.5500	30.19	-12.90	17.29	40.00	-22.71	Peak	
2	100.8100	32.29	-15.40	16.89	43.50	-26.61	Peak	
3	169.6799	32.63	-12.24	20.39	43.50	-23.11	Peak	
4 *	209.4500	36.27	-14.63	21.64	43.50	-21.86	Peak	
5	297.7200	30.37	-10.41	19.96	46.00	-26.04	Peak	
6	551.8600	27.80	-4.63	23.17	46.00	-22.83	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps_Adapter: PHITEK

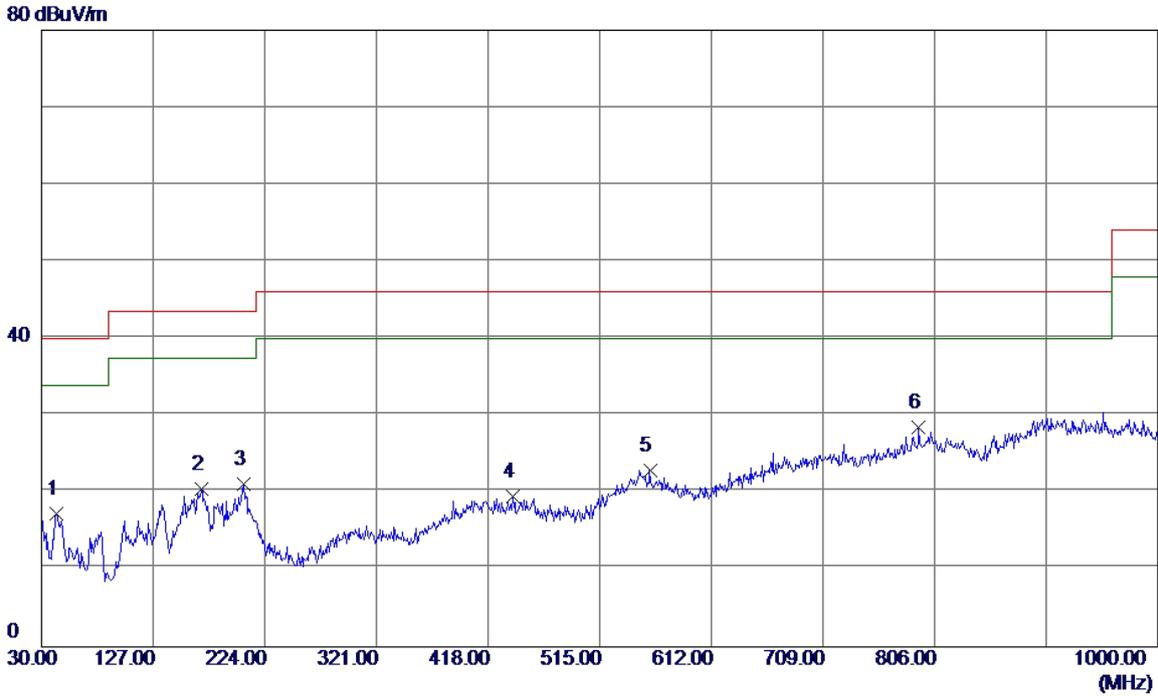
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	46.96	-13.36	33.60	40.00	-6.40	Peak	
2	81.4100	38.85	-16.43	22.42	40.00	-17.58	Peak	
3	196.8400	33.43	-14.27	19.16	43.50	-24.34	Peak	
4	384.0500	29.78	-8.88	20.90	46.00	-25.10	Peak	
5	547.9800	27.54	-4.75	22.79	46.00	-23.21	Peak	
6	923.3700	27.91	2.55	30.46	46.00	-15.54	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps_Adapter: PHITEK

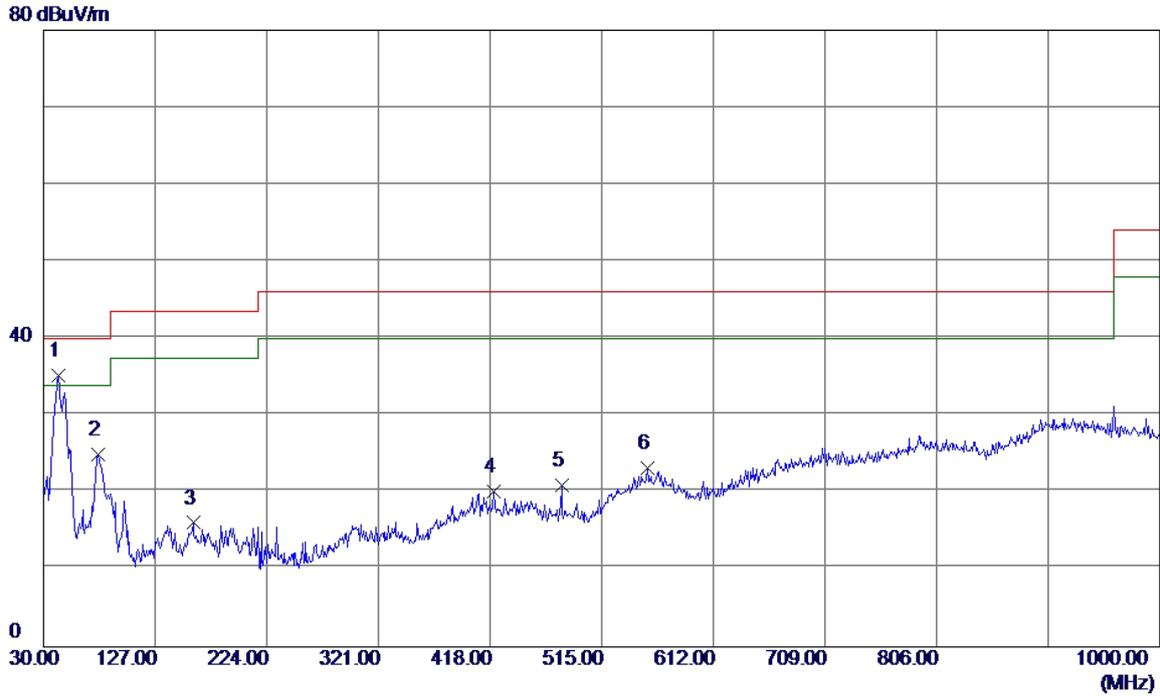
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	42.6100	30.68	-13.36	17.32	40.00	-22.68	Peak	
2	168.7100	32.70	-12.23	20.47	43.50	-23.03	Peak	
3	205.5700	35.65	-14.55	21.10	43.50	-22.40	Peak	
4	439.3400	27.49	-7.95	19.54	46.00	-26.46	Peak	
5	558.6500	27.91	-4.98	22.93	46.00	-23.07	Peak	
6 *	792.4200	28.51	-0.08	28.43	46.00	-17.57	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: Huntkey

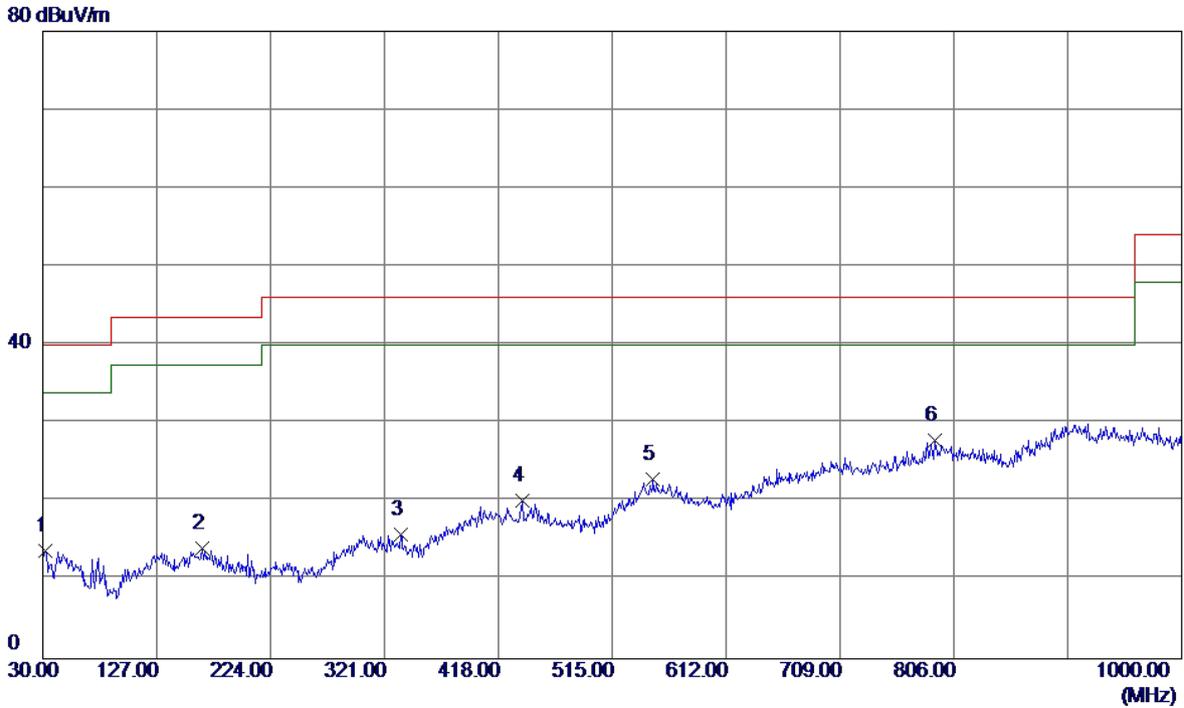
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	48.58	-13.36	35.22	40.00	-4.78	Peak	
2	77.5300	41.26	-16.31	24.95	40.00	-15.05	Peak	
3	159.9800	28.23	-12.15	16.08	43.50	-27.42	Peak	
4	420.9100	27.99	-7.87	20.12	46.00	-25.88	Peak	
5	480.0800	30.06	-9.03	21.03	46.00	-24.97	Peak	
6	554.7700	27.93	-4.78	23.15	46.00	-22.85	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: Huntkey

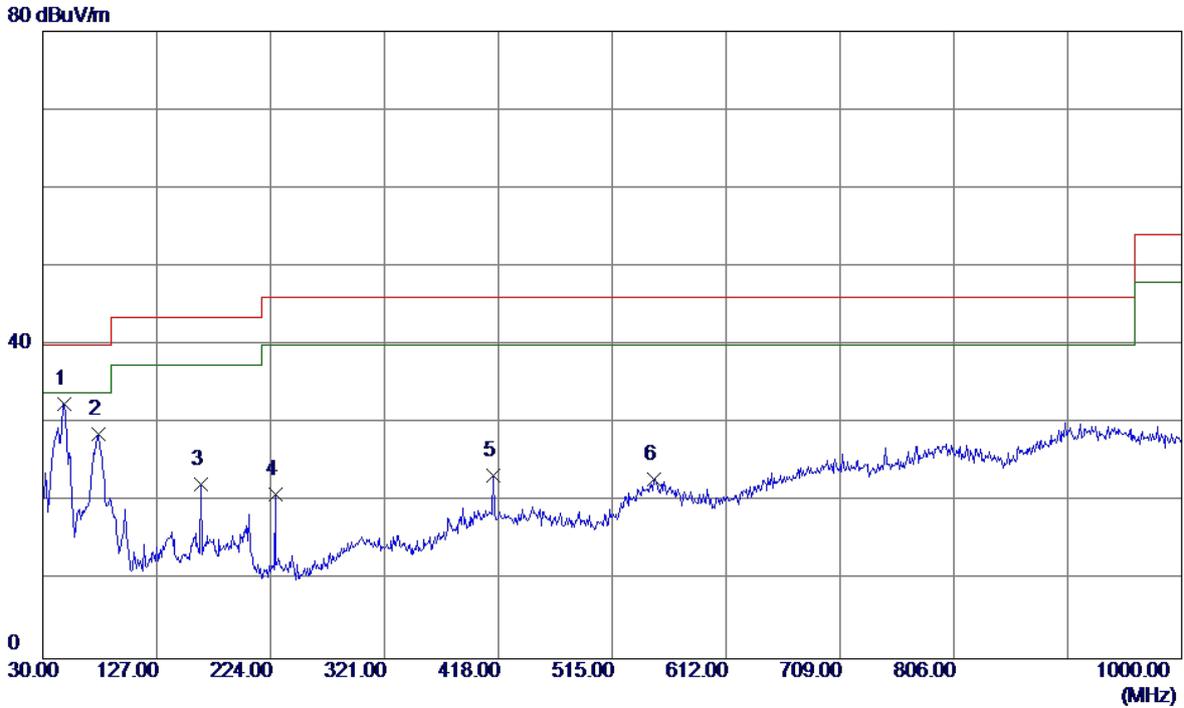
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	31.9400	27.91	-14.20	13.71	40.00	-26.29	Peak	
2	165.8000	26.33	-12.20	14.13	43.50	-29.37	Peak	
3	334.5799	26.70	-10.89	15.81	46.00	-30.19	Peak	
4	438.3700	28.16	-7.95	20.21	46.00	-25.79	Peak	
5	549.9200	27.40	-4.55	22.85	46.00	-23.15	Peak	
6 *	789.5100	27.99	-0.21	27.78	46.00	-18.22	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps_Adapter: Huntkey

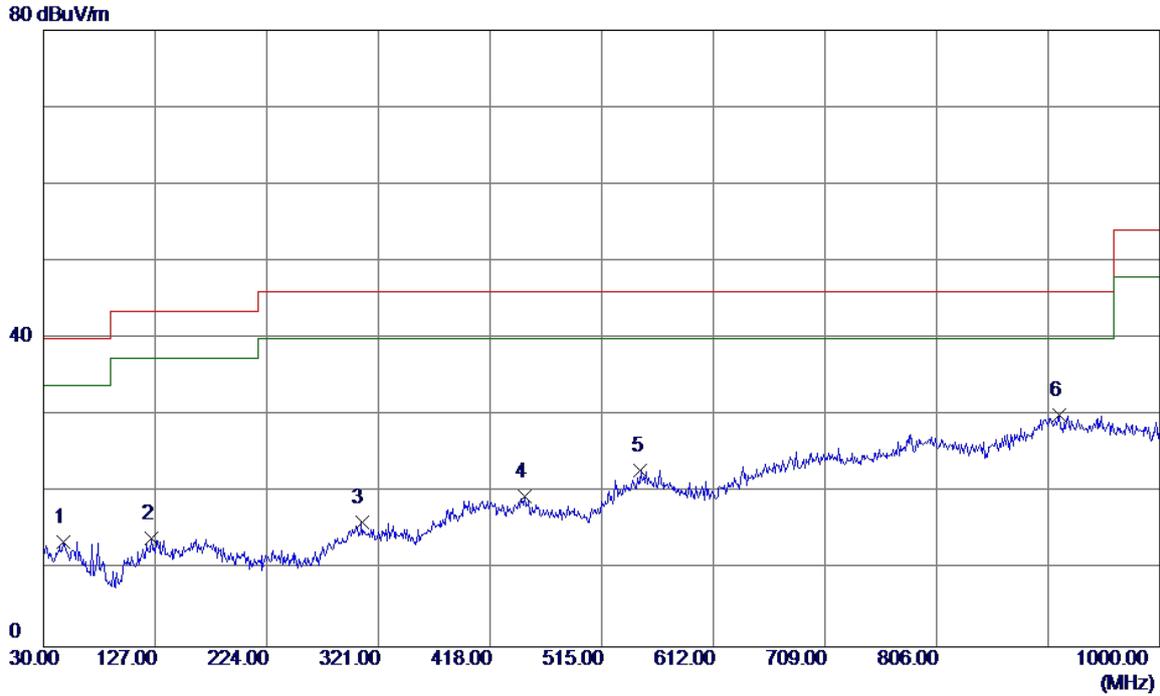
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	48.4300	45.58	-13.11	32.47	40.00	-7.53	Peak	
2	77.5300	45.02	-16.31	28.71	40.00	-11.29	Peak	
3	164.8300	34.44	-12.19	22.25	43.50	-21.25	Peak	
4	227.8800	34.52	-13.56	20.96	46.00	-25.04	Peak	
5	414.1200	31.13	-7.84	23.29	46.00	-22.71	Peak	
6	550.8900	27.51	-4.58	22.93	46.00	-23.07	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps_Adapter: Huntkey

Horizontal



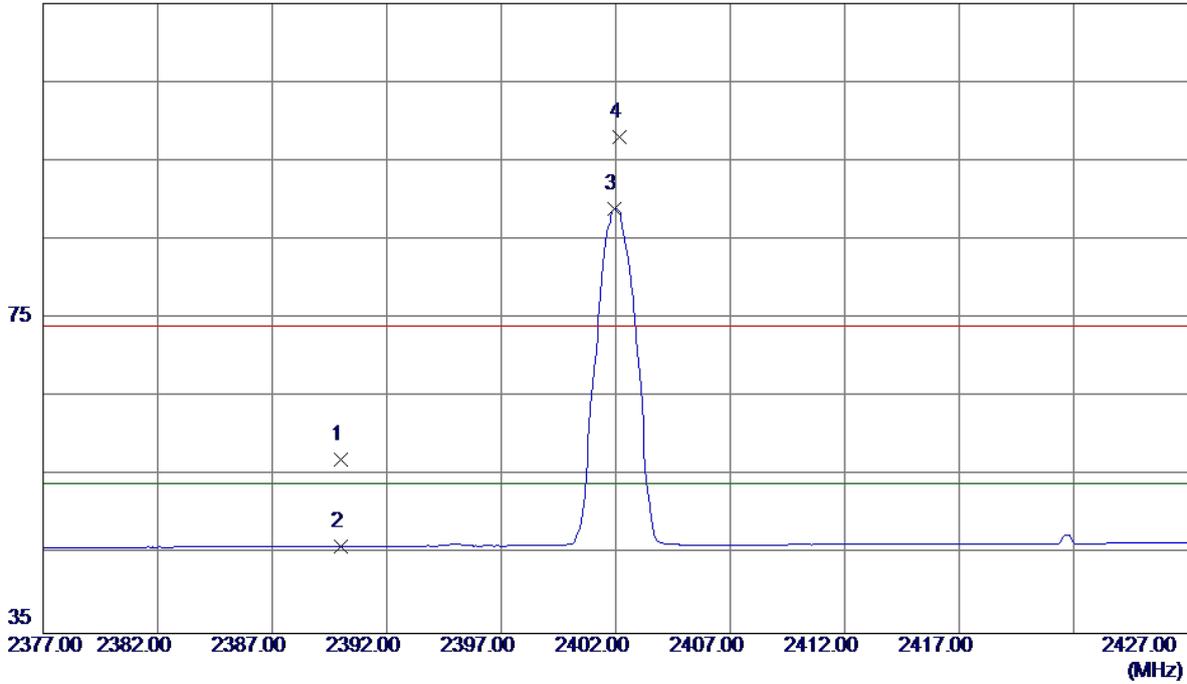
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	47.4600	26.54	-12.87	13.67	40.00	-26.33	Peak	
2	124.0900	27.06	-13.01	14.05	43.50	-29.45	Peak	
3	306.4500	26.47	-10.30	16.17	46.00	-29.83	Peak	
4	448.0700	27.44	-7.99	19.45	46.00	-26.55	Peak	
5	548.9500	27.61	-4.65	22.96	46.00	-23.04	Peak	
6 *	912.7000	27.55	2.59	30.14	46.00	-15.86	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

115 dBuV/m

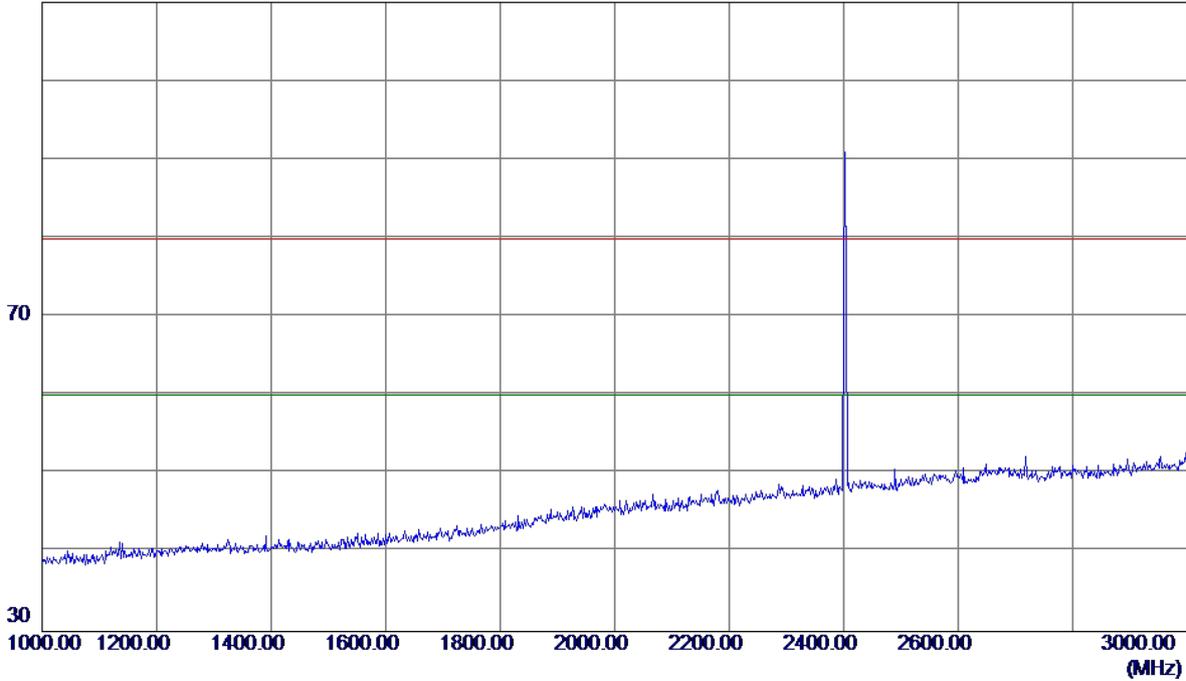


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	24.04	33.01	57.05	74.00	-16.95	Peak	
2	2390.0000	13.04	33.01	46.05	54.00	-7.95	AVG	
3 *	2401.9500	55.89	33.06	88.95	54.00	34.95	AVG	No Limit
4	2402.1500	64.97	33.06	98.03	74.00	24.03	Peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

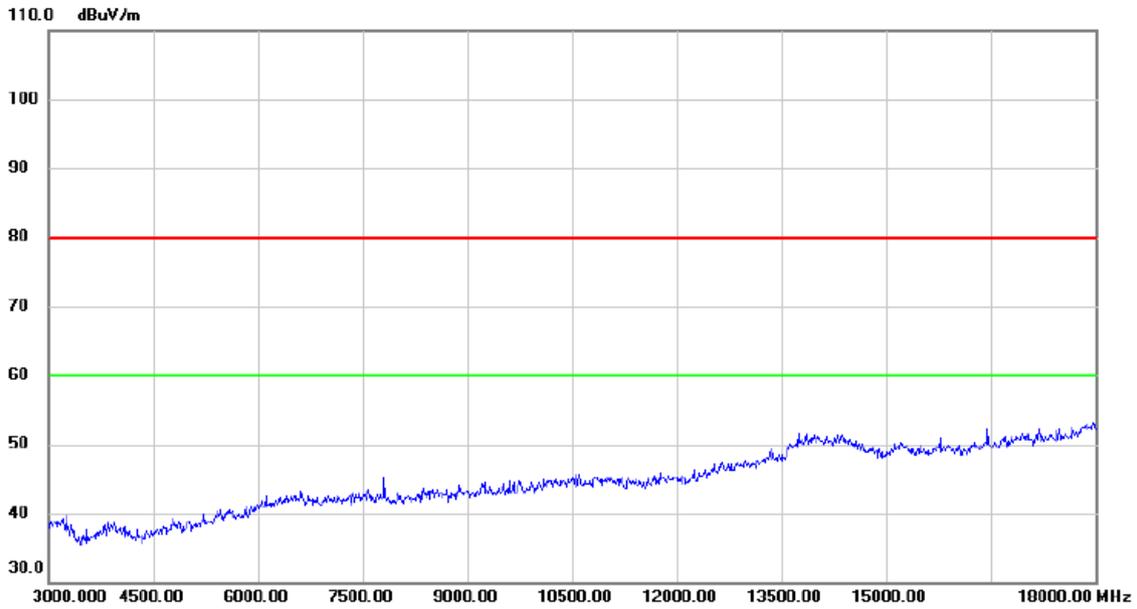
110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2402MHz_CH00_1Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

110 dBuV/m

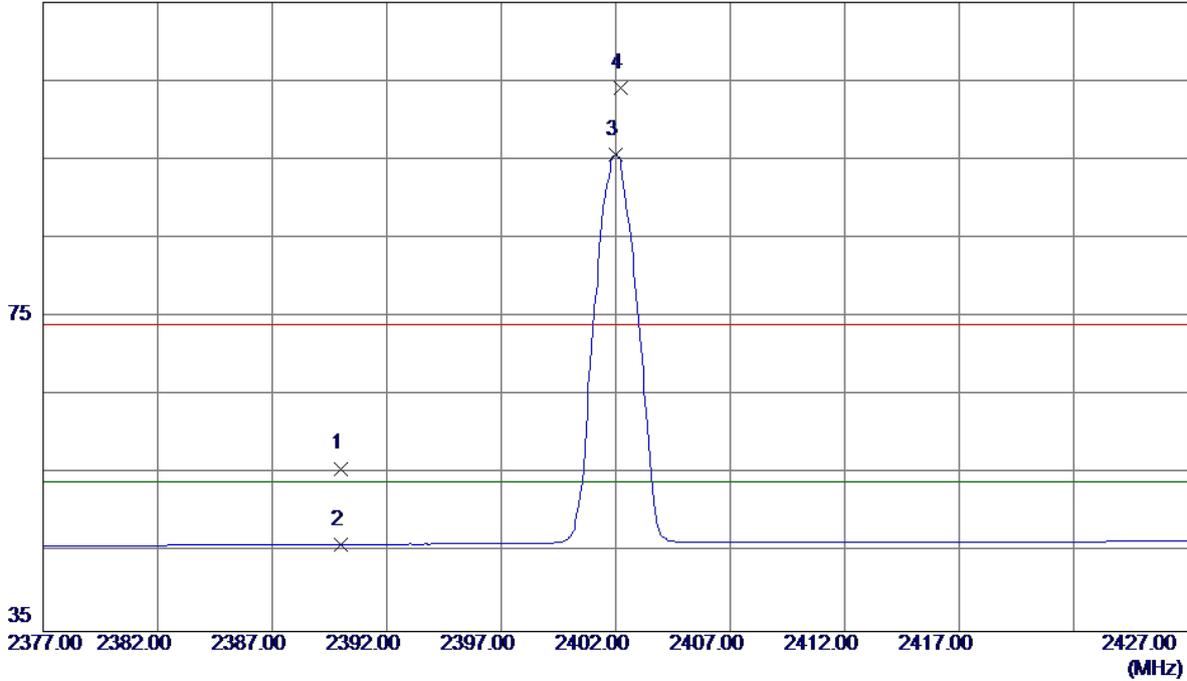


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

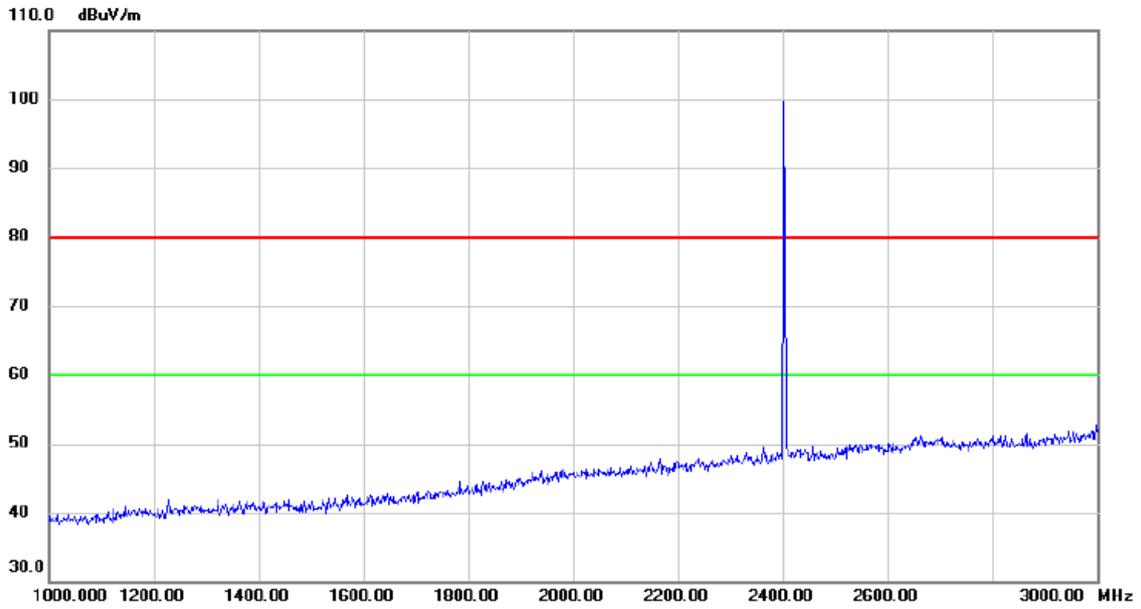
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.71	33.01	55.72	74.00	-18.28	Peak	
2	2390.0000	13.03	33.01	46.04	54.00	-7.96	AVG	
3 *	2402.0000	62.60	33.06	95.66	54.00	41.66	AVG	No Limit
4	2402.2000	71.11	33.06	104.17	74.00	30.17	Peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

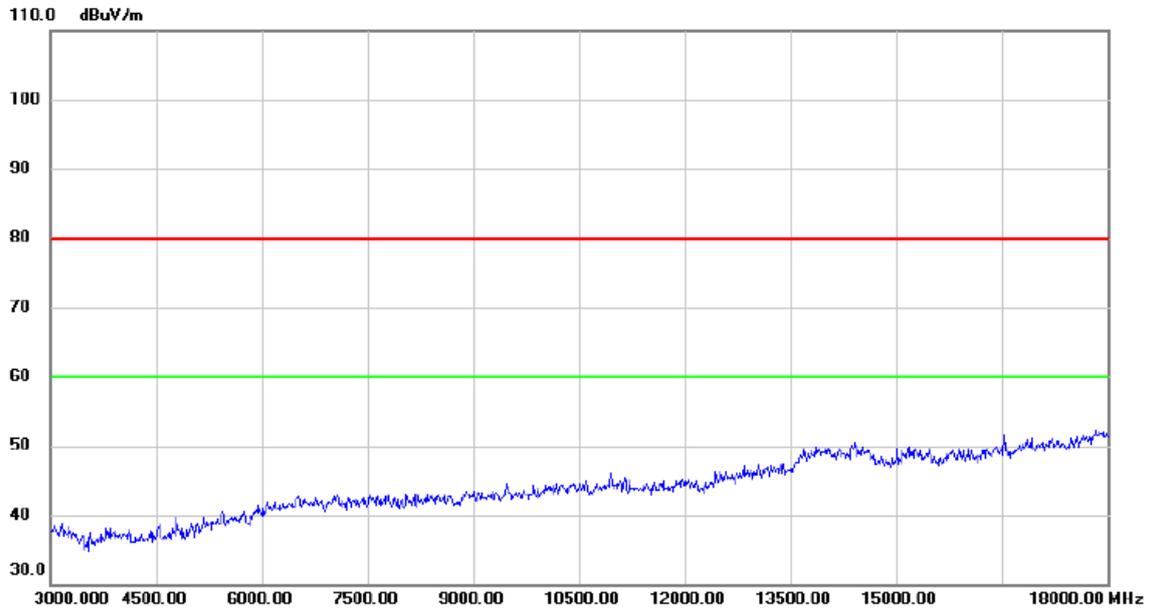
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
		2402	100		100	80	20		

Test Mode : TX 2402MHz _CH00_1Mbps

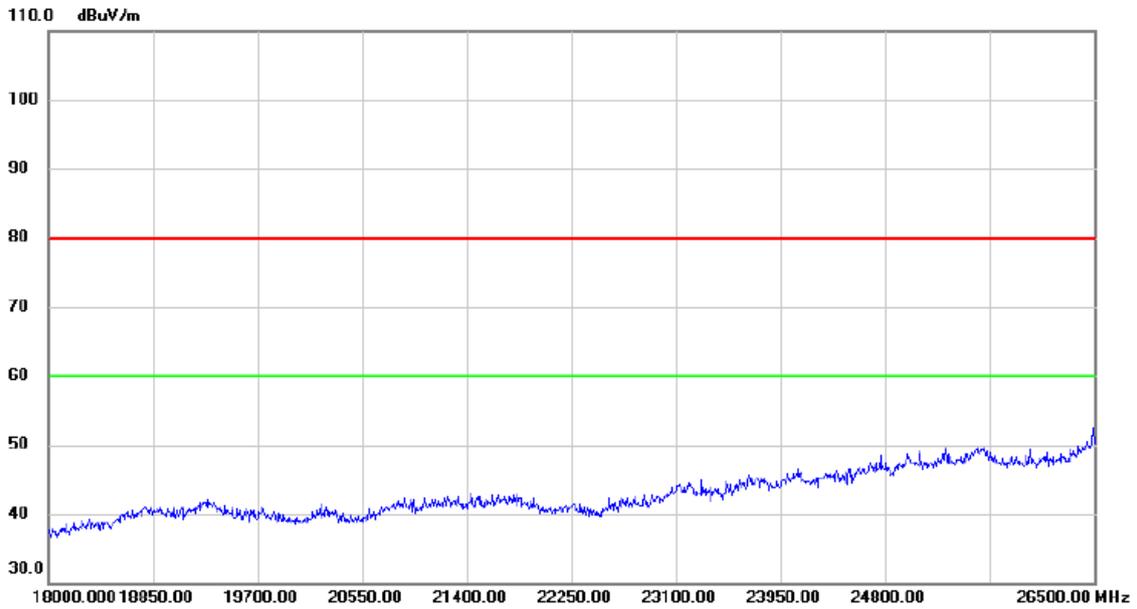
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

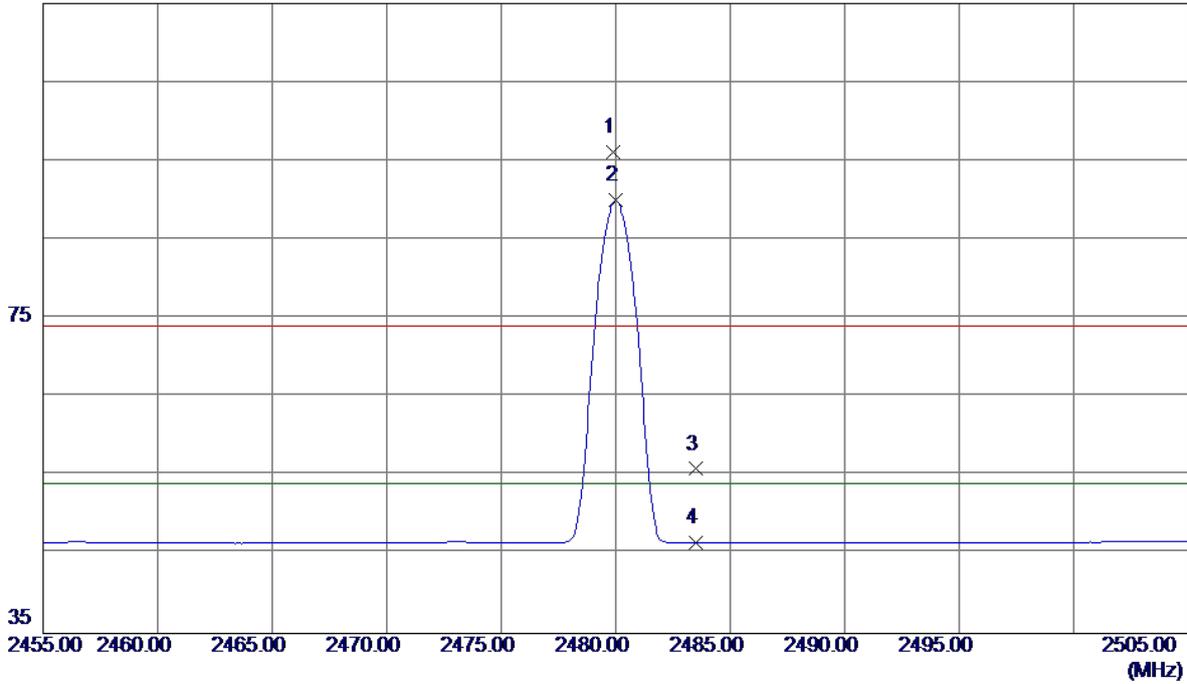


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

115 dBuV/m

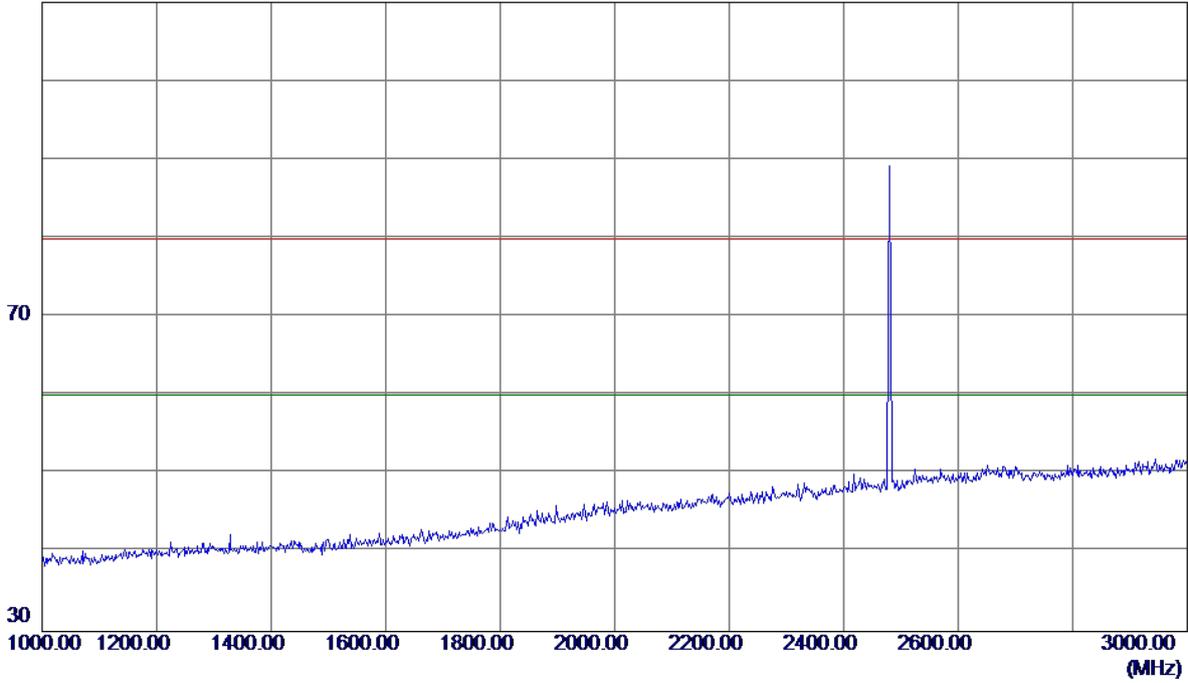


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9000	62.74	33.39	96.13	74.00	22.13	Peak	No Limit
2 *	2480.0000	56.65	33.39	90.04	54.00	36.04	AVG	No Limit
3	2483.5000	22.48	33.40	55.88	74.00	-18.12	Peak	
4	2483.5000	13.08	33.40	46.48	54.00	-7.52	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

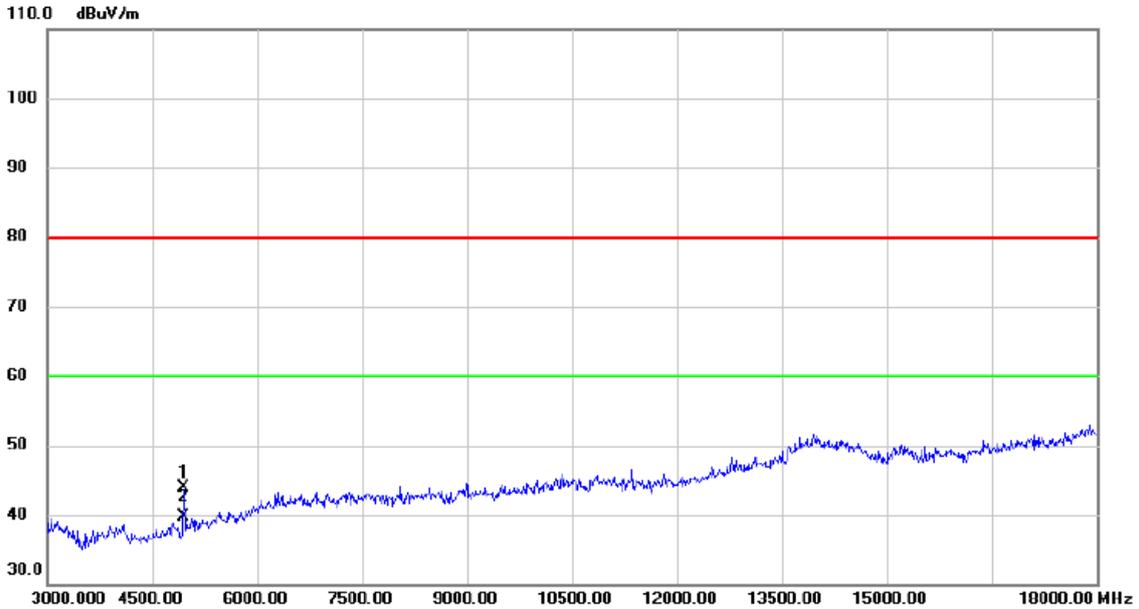
110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4945.760	38.45	5.37	43.82	80.00	-36.18	peak	
2	*	4946.000	34.31	5.37	39.68	60.00	-20.32	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

110 dBuV/m

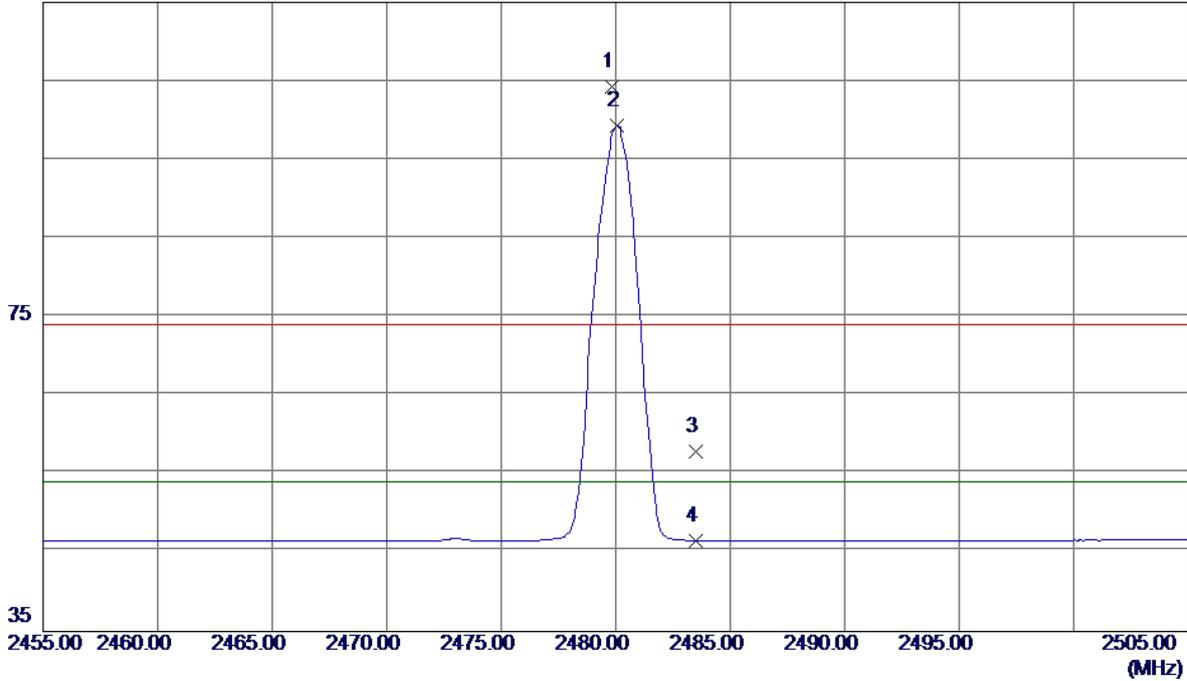


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

115 dBuV/m

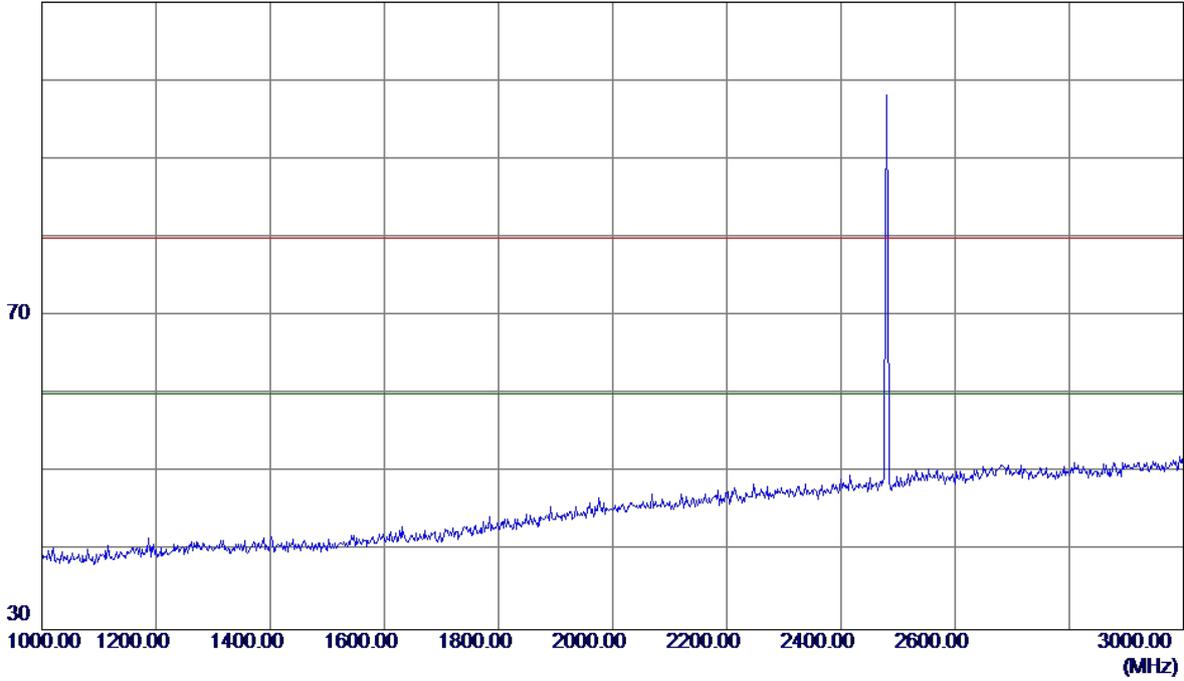


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	70.85	33.39	104.24	74.00	30.24	Peak	No Limit
2 *	2480.0500	66.00	33.39	99.39	54.00	45.39	AVG	No Limit
3	2483.5000	24.51	33.40	57.91	74.00	-16.09	Peak	
4	2483.5000	13.16	33.40	46.56	54.00	-7.44	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

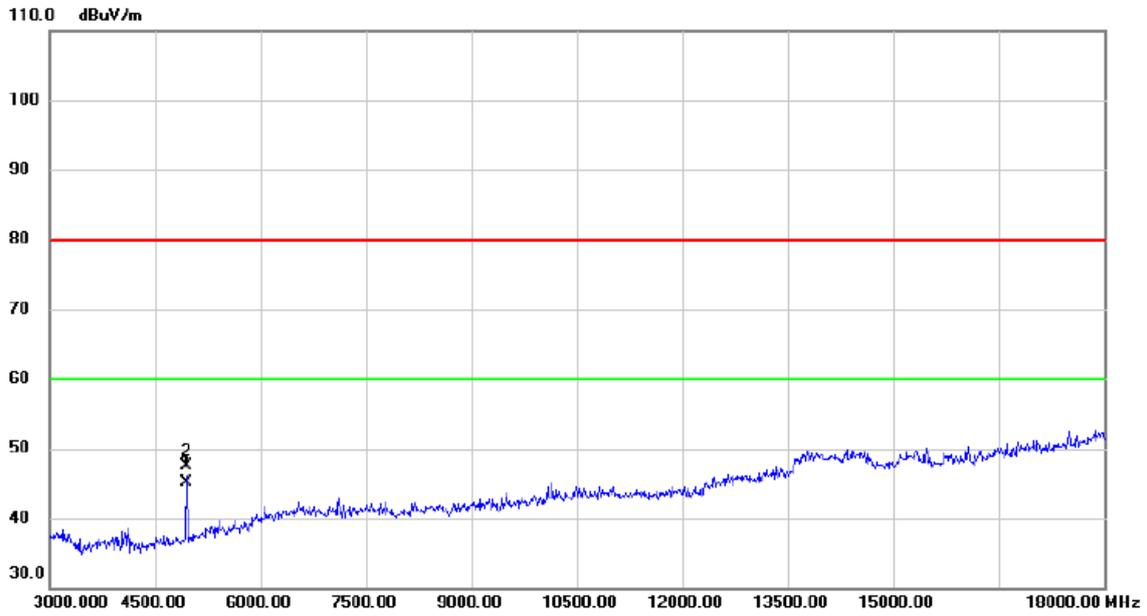
110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

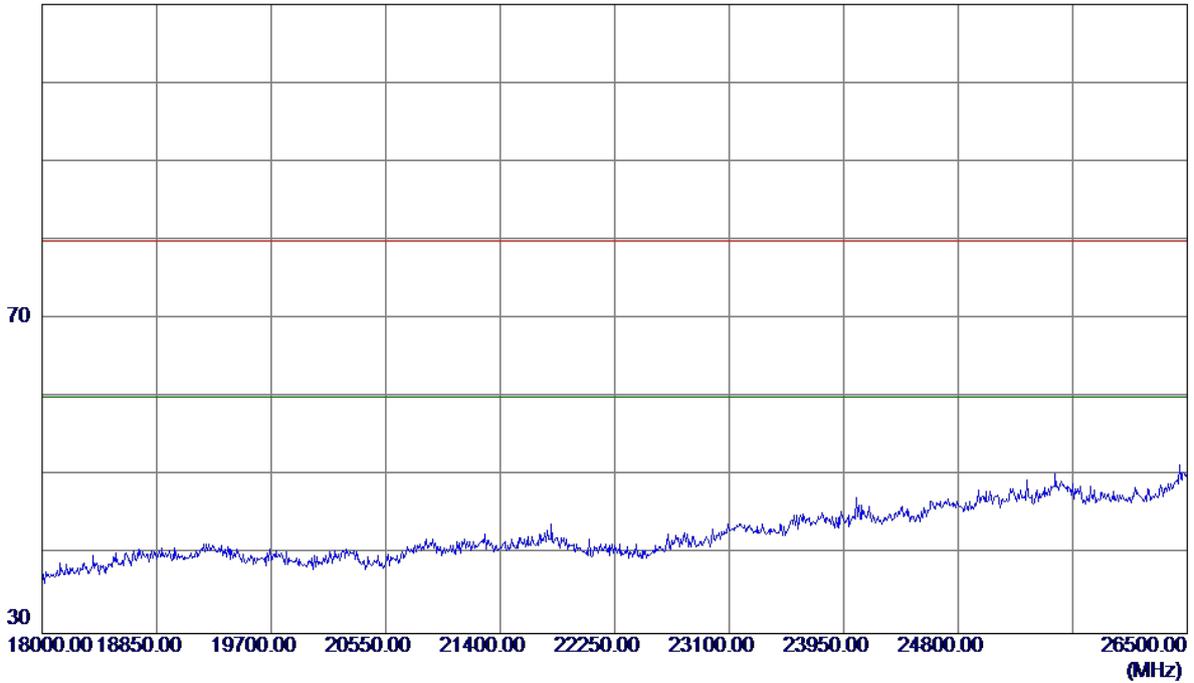


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4946.000	39.68	5.37	45.05	60.00	-14.95	AVG	
2		4946.030	42.13	5.37	47.50	80.00	-32.50	peak	

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

110 dBuV/m

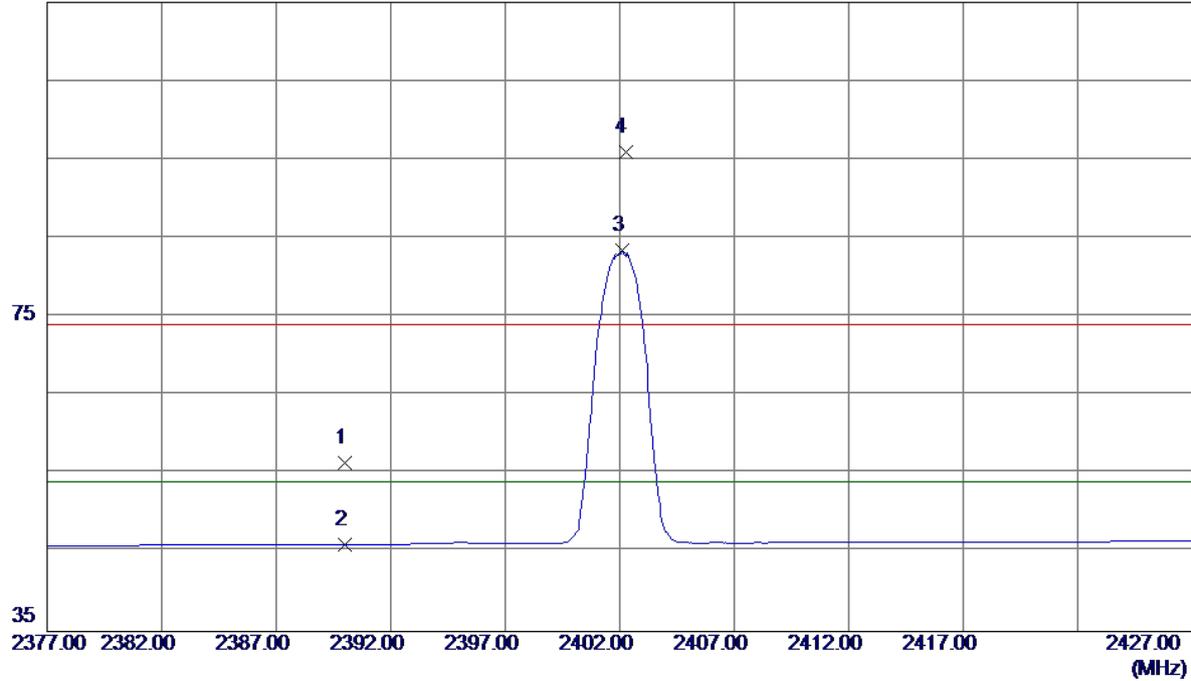


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

115 dBuV/m

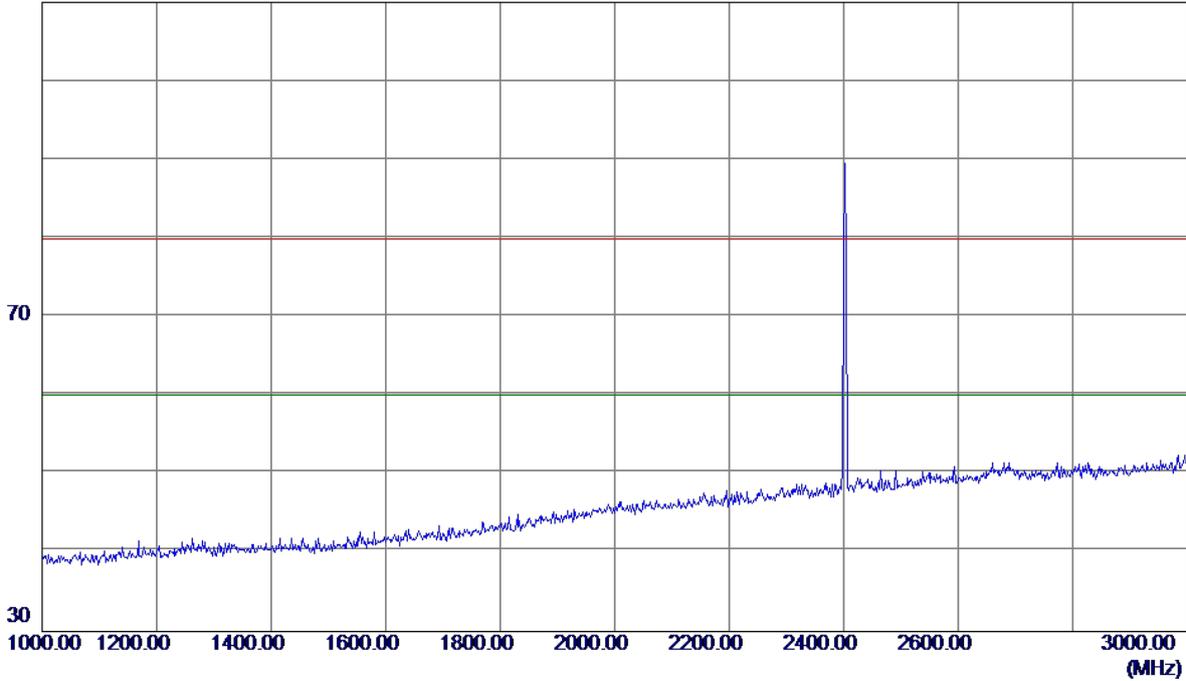


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.38	33.01	56.39	74.00	-17.61	Peak	
2	2390.0000	13.04	33.01	46.05	54.00	-7.95	AVG	
3 *	2402.1000	50.36	33.06	83.42	54.00	29.42	AVG	No Limit
4	2402.2500	62.84	33.06	95.90	74.00	21.90	Peak	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

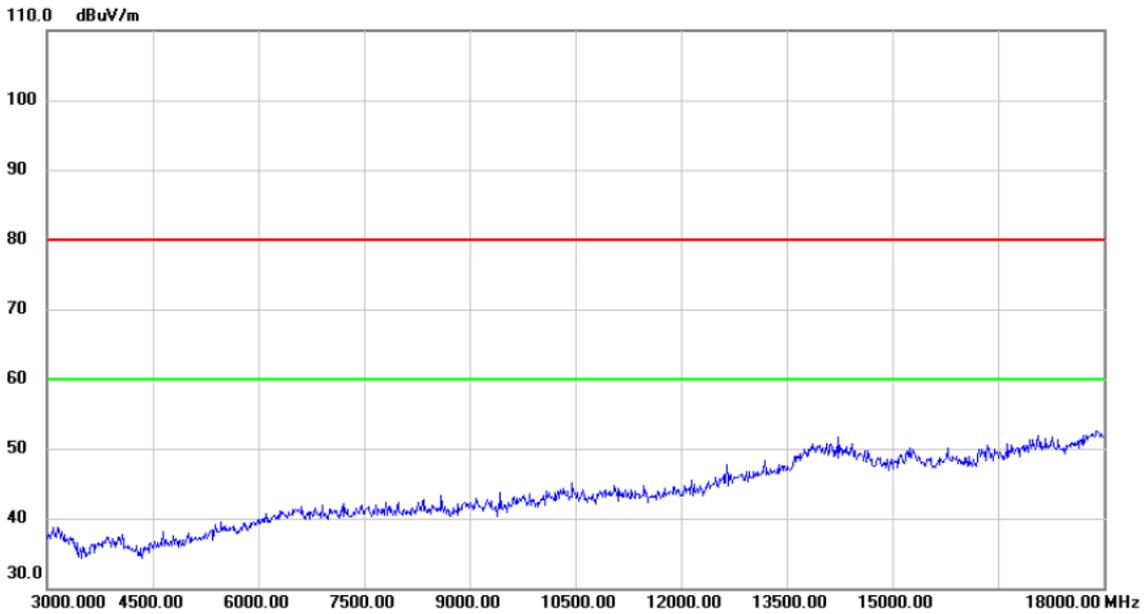
110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2402MHz _CH00_3Mbps

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2402MHz_CH00_3Mbps

Vertical

110 dBuV/m

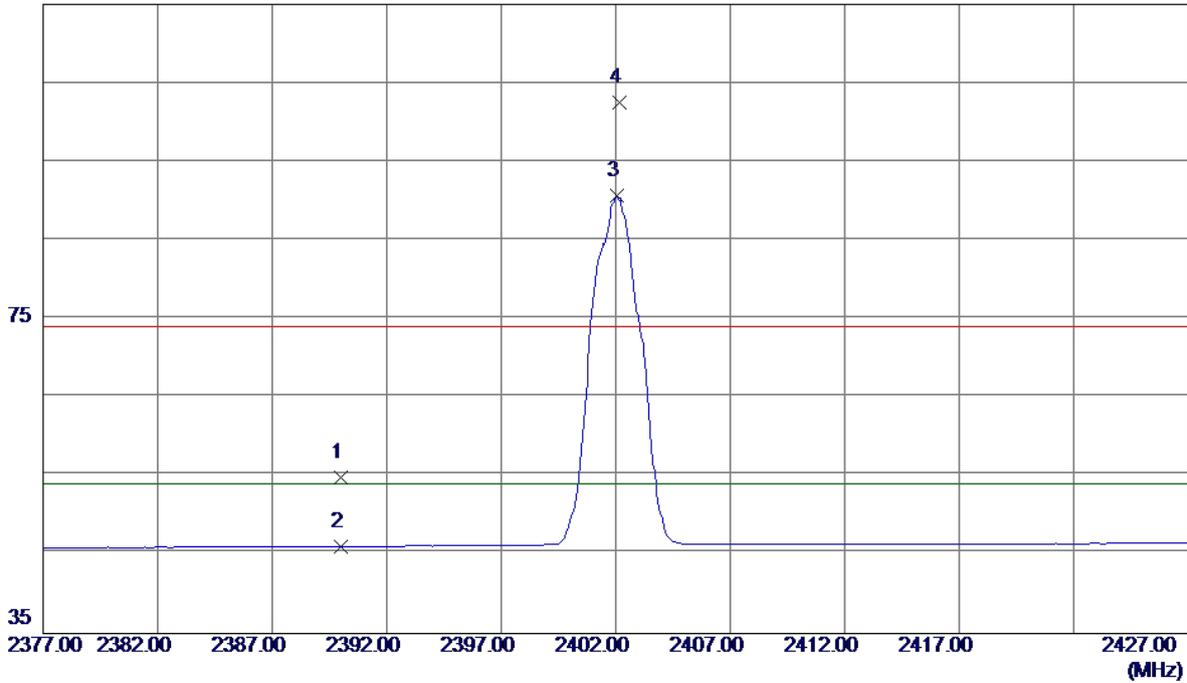


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal

115 dBuV/m

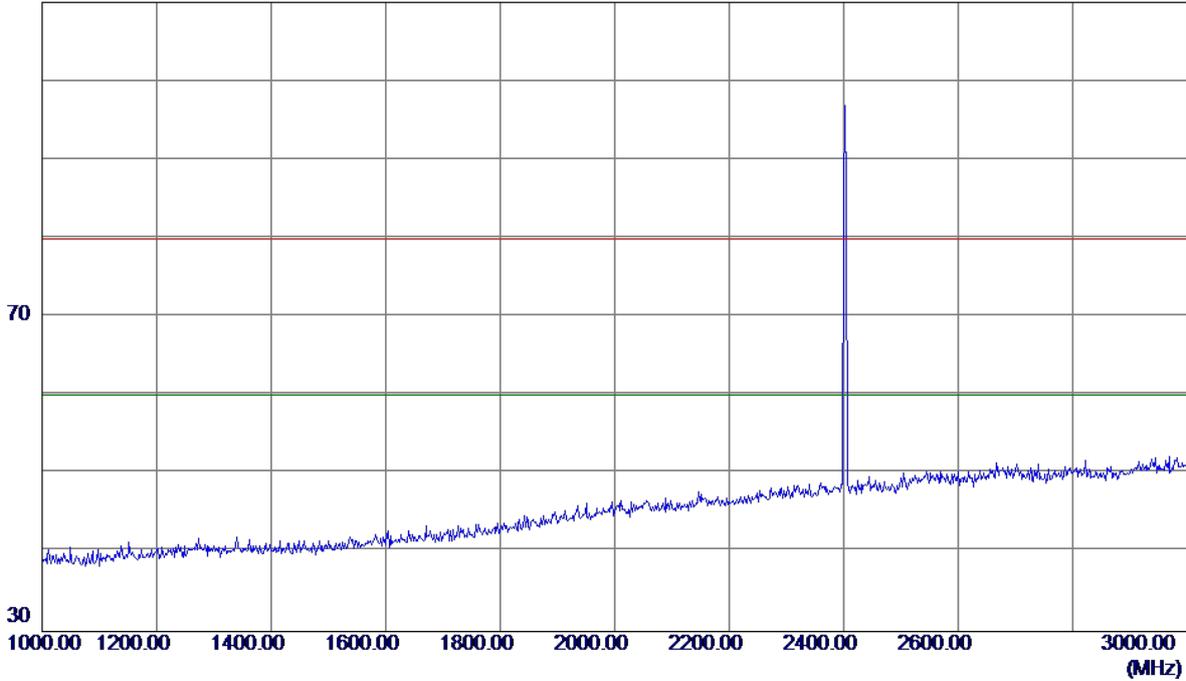


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	21.88	33.01	54.89	74.00	-19.11	Peak	
2	2390.0000	13.06	33.01	46.07	54.00	-7.93	AVG	
3 *	2402.0500	57.65	33.06	90.71	54.00	36.71	AVG	No Limit
4	2402.1500	69.53	33.06	102.59	74.00	28.59	Peak	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal

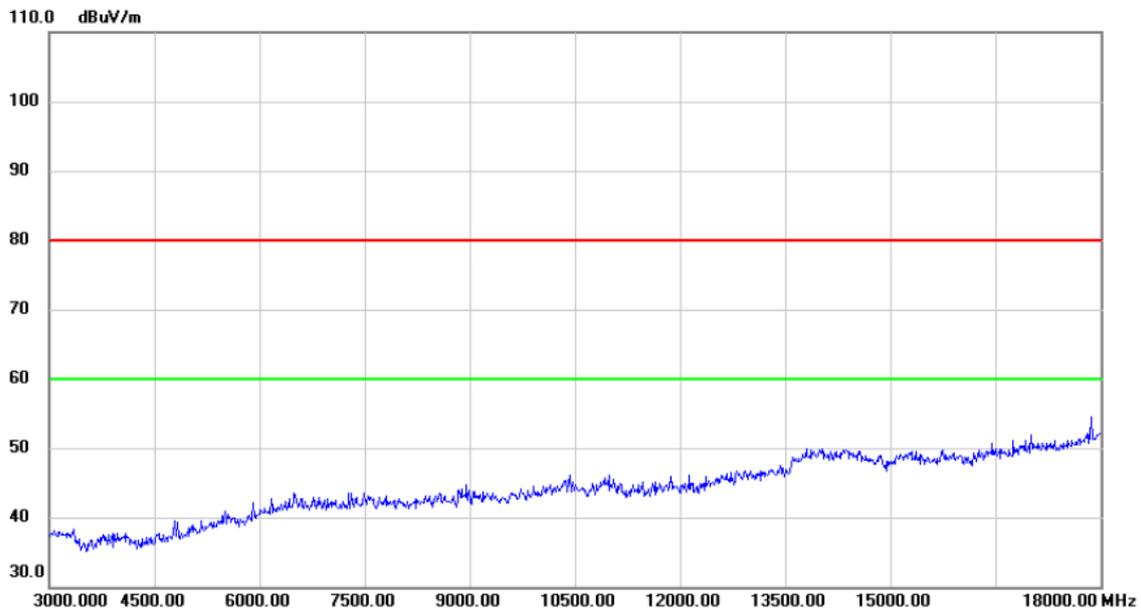
110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
	2402	110		110	80	30		

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz_CH00_3Mbps

Horizontal

110 dBuV/m

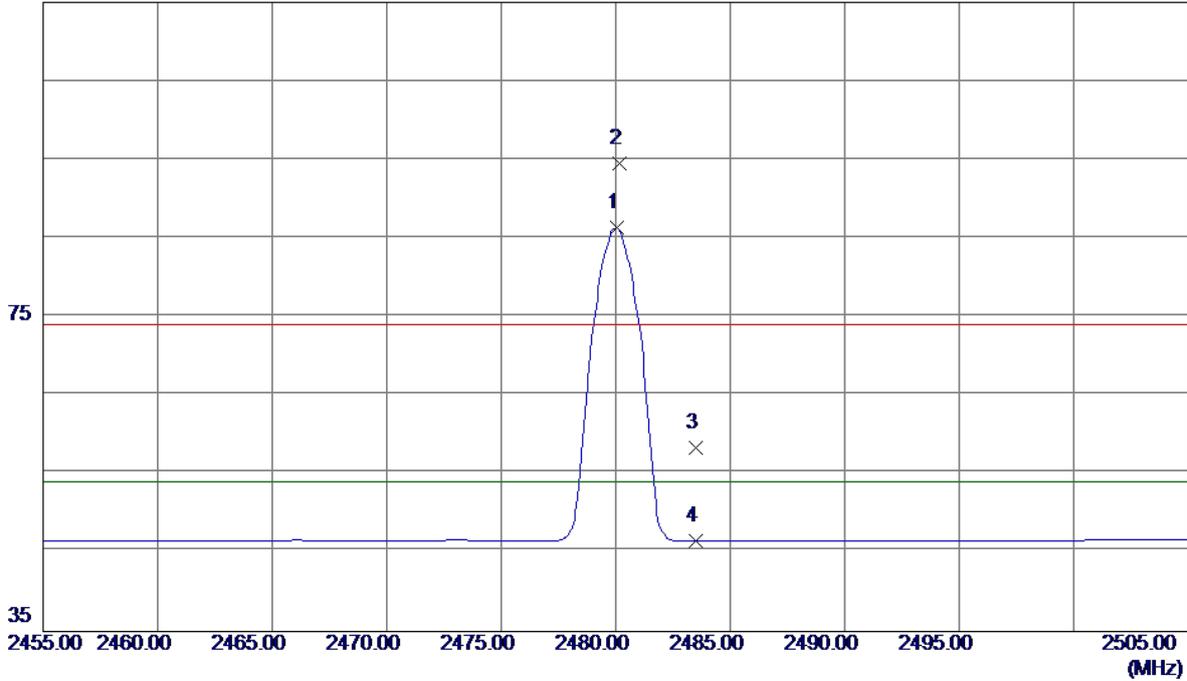


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

115 dBuV/m

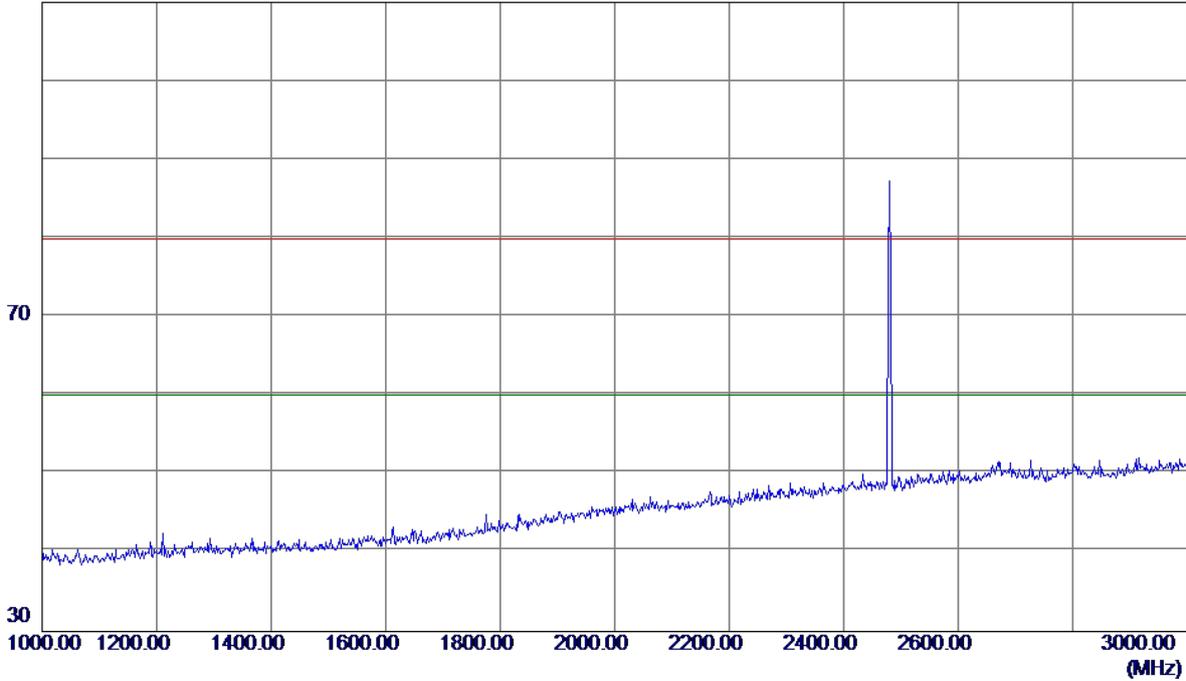


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2480.0500	52.91	33.39	86.30	54.00	32.30	AVG	No Limit
2	2480.1500	61.17	33.39	94.56	74.00	20.56	Peak	No Limit
3	2483.5000	24.91	33.40	58.31	74.00	-15.69	Peak	
4	2483.5000	13.09	33.40	46.49	54.00	-7.51	AVG	

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

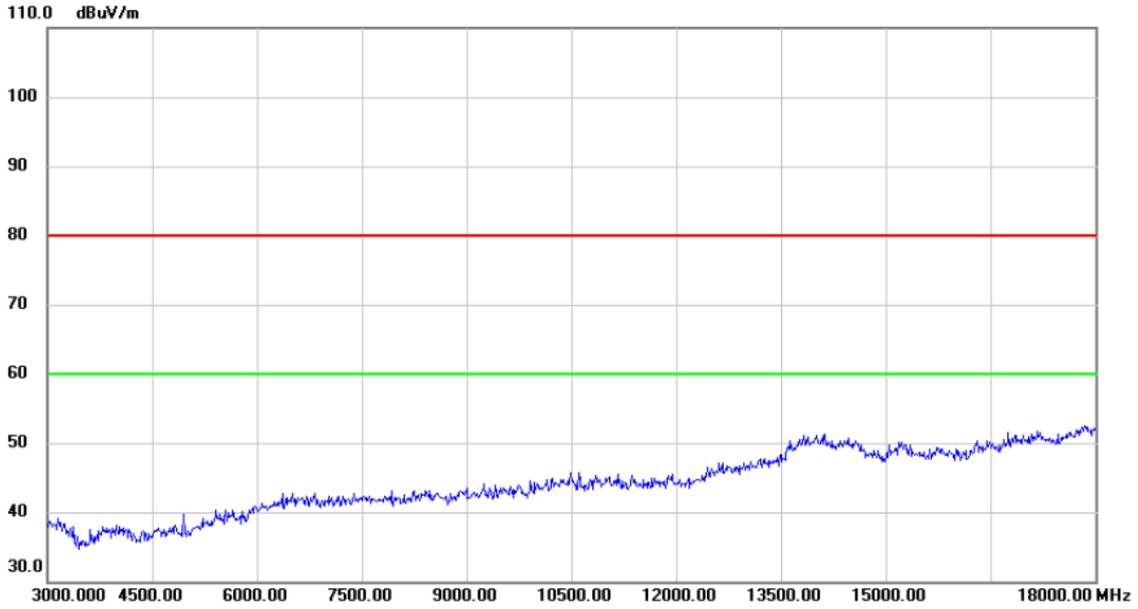
110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

110 dBuV/m

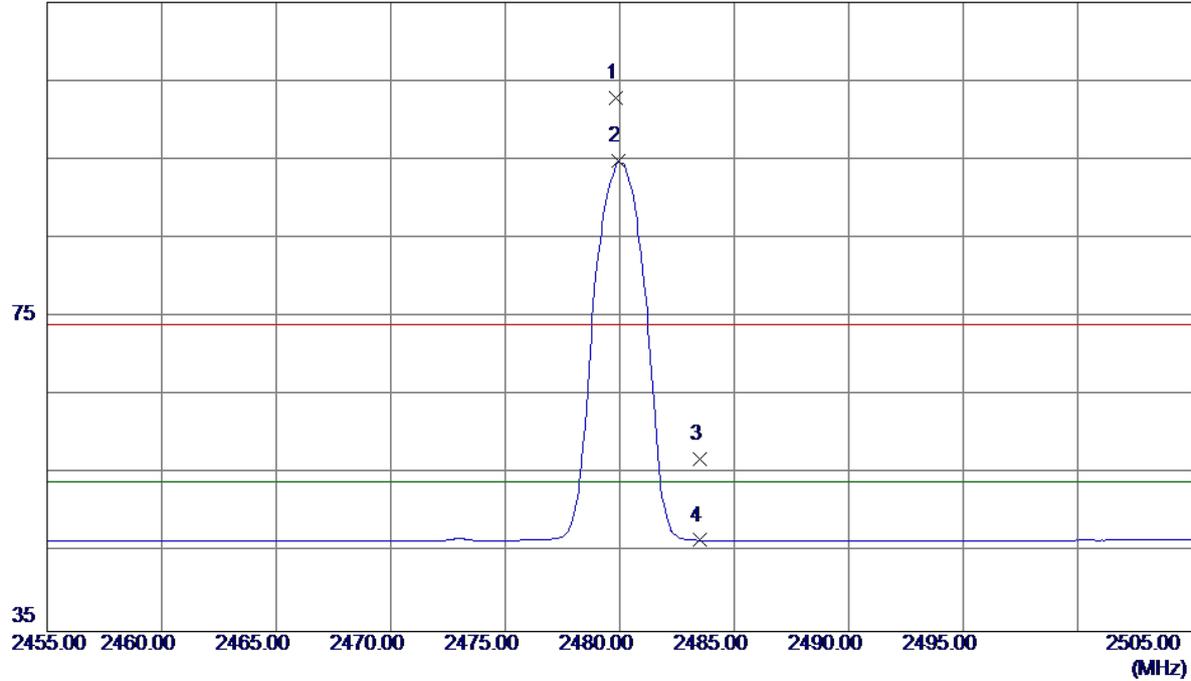


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

115 dBuV/m

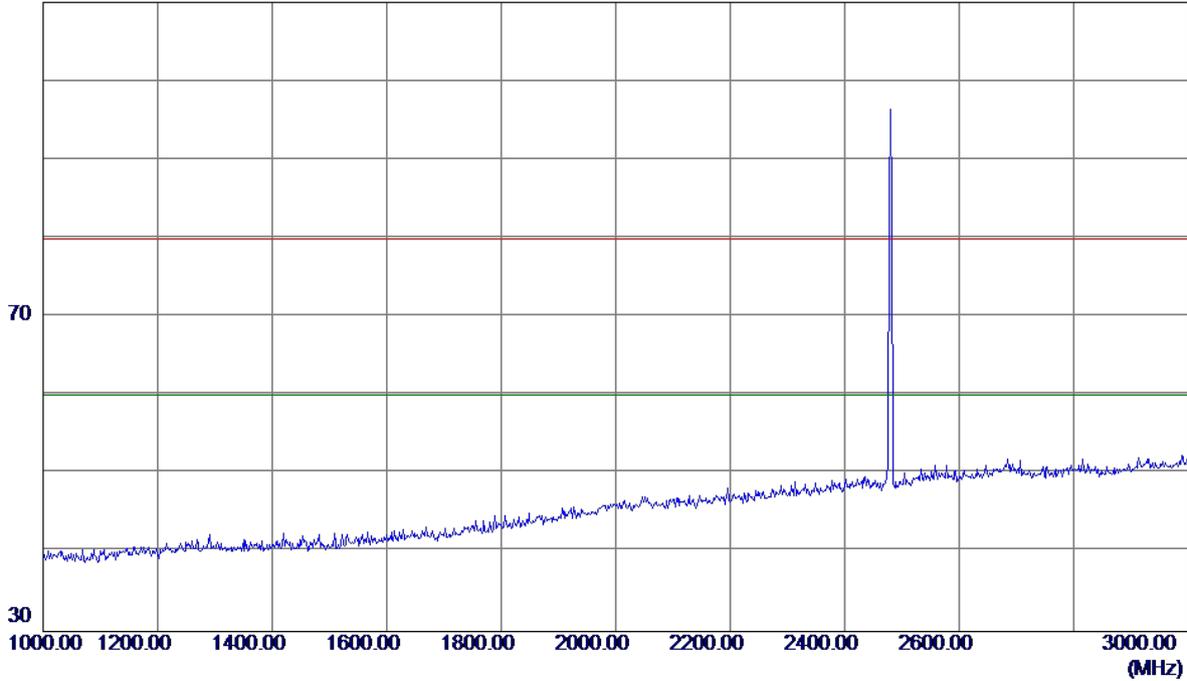


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	69.46	33.39	102.85	74.00	28.85	Peak	No Limit
2 *	2479.9500	61.46	33.39	94.85	54.00	40.85	AVG	No Limit
3	2483.5000	23.55	33.40	56.95	74.00	-17.05	Peak	
4	2483.5000	13.20	33.40	46.60	54.00	-7.40	AVG	

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

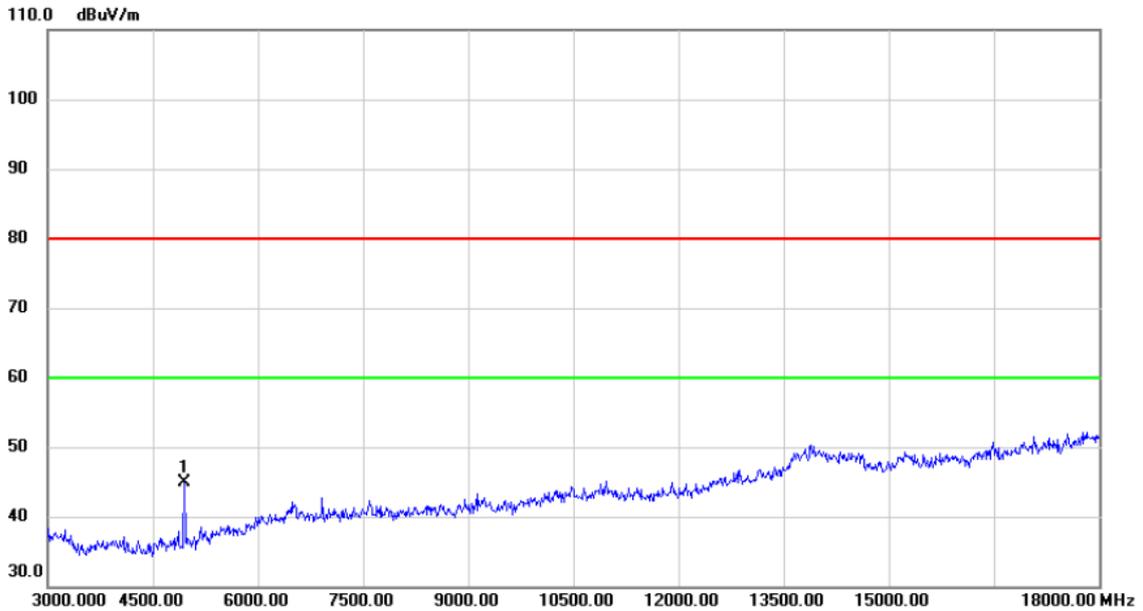
110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4950.000	39.54	5.39	44.93	80.00	-35.07	peak	

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

110 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4950.0000	39.54	5.39	44.93	80.00	-35.07	Peak	

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

110 dBuV/m

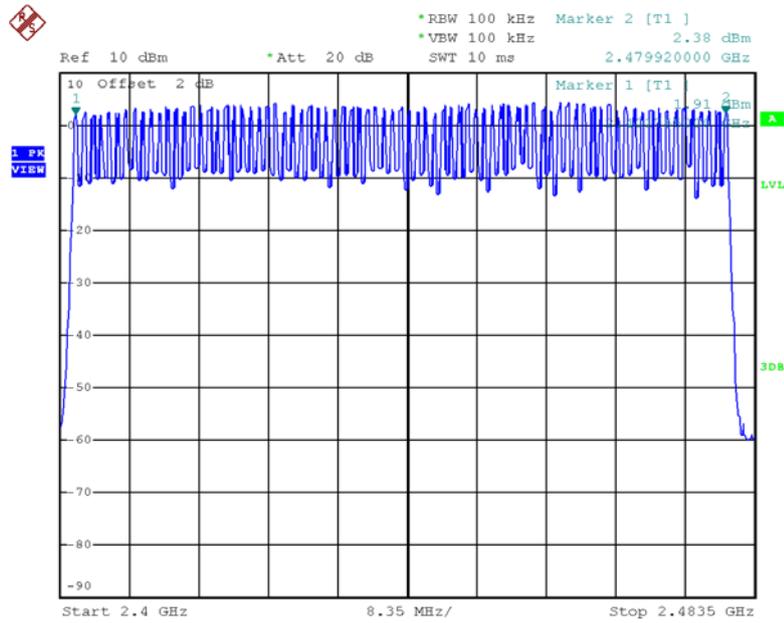


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

ATTACHMENT E - NUMBER OF HOPPING CHANNEL

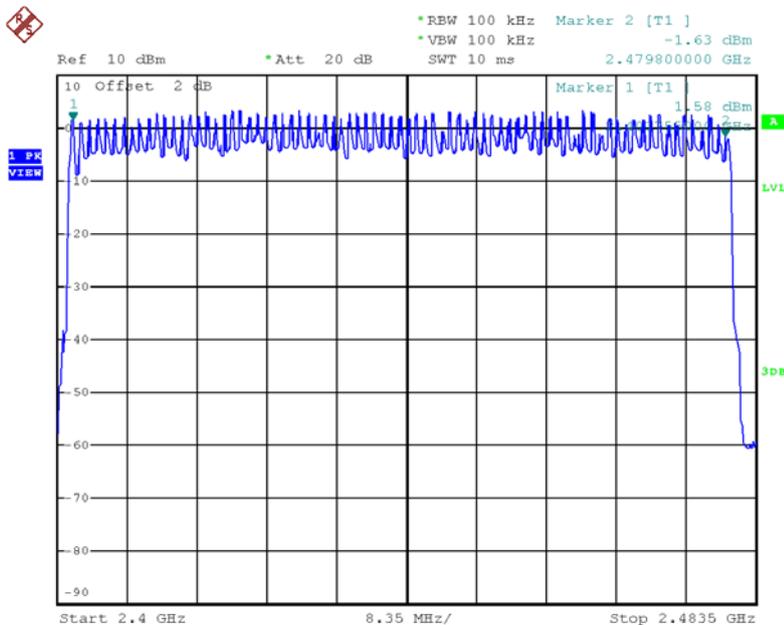
Test Mode **Hopping Mode_1Mbps**

Number of Hopping Channel 79



Test Mode **Hopping Mode_3Mbps**

Number of Hopping Channel 79

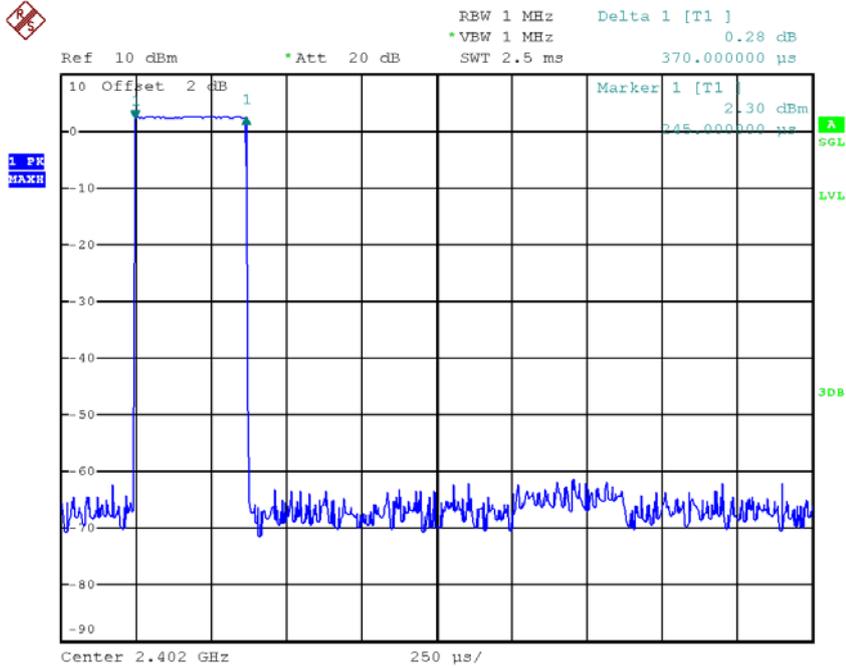


ATTACHMENT F - AVERAGE TIME OF OCCUPANCY

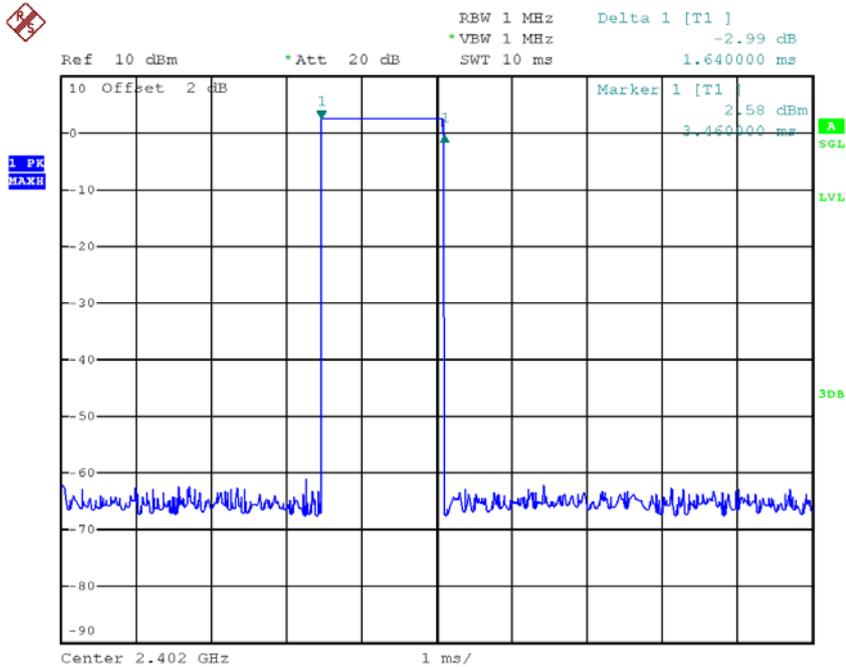
Test Mode :	TX Mode_1Mbps
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Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3700	0.1184	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6200	0.2592	0.4000	Pass
DH1	2441	0.3750	0.1200	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6200	0.2592	0.4000	Pass
DH1	2480	0.3750	0.1200	0.4000	Pass

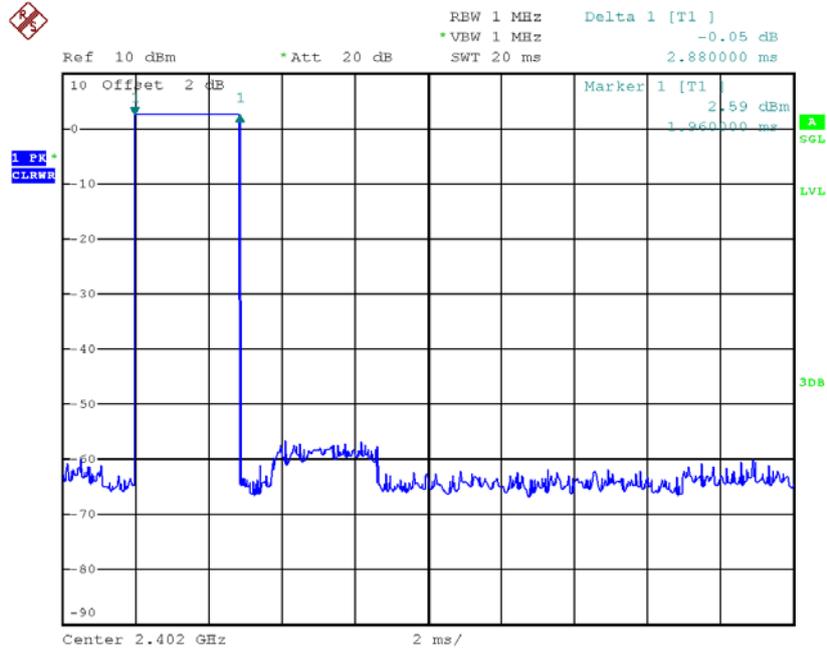
CH00-DH1



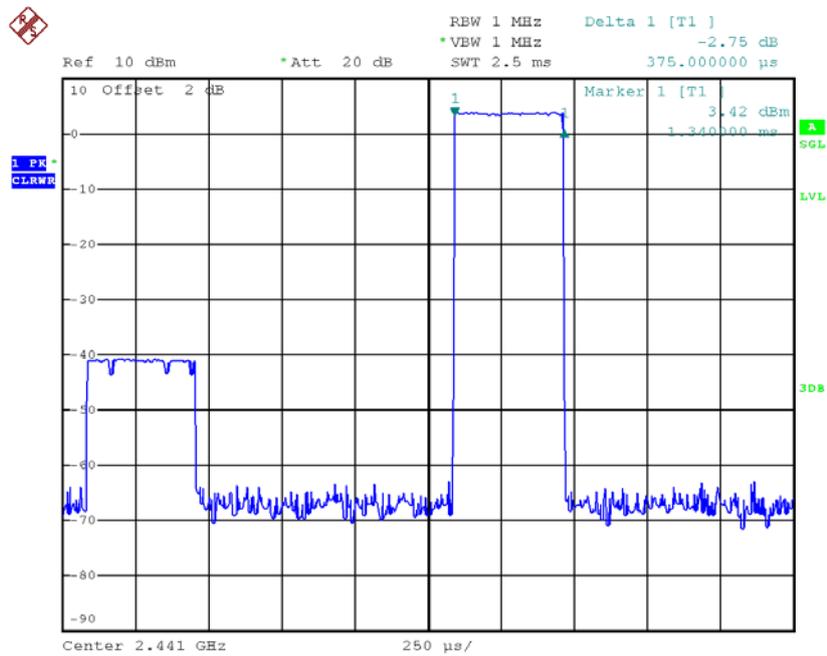
CH00-DH3



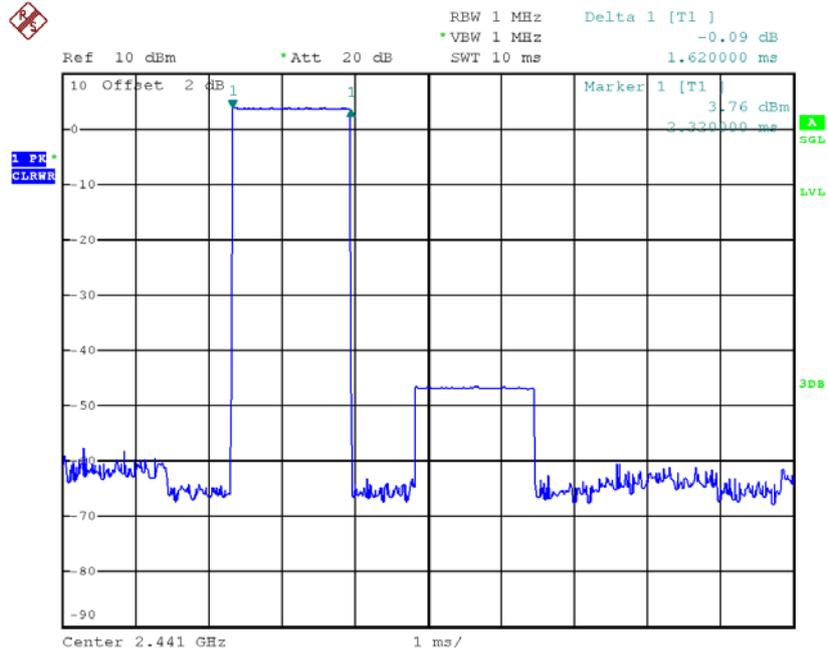
CH00-DH5



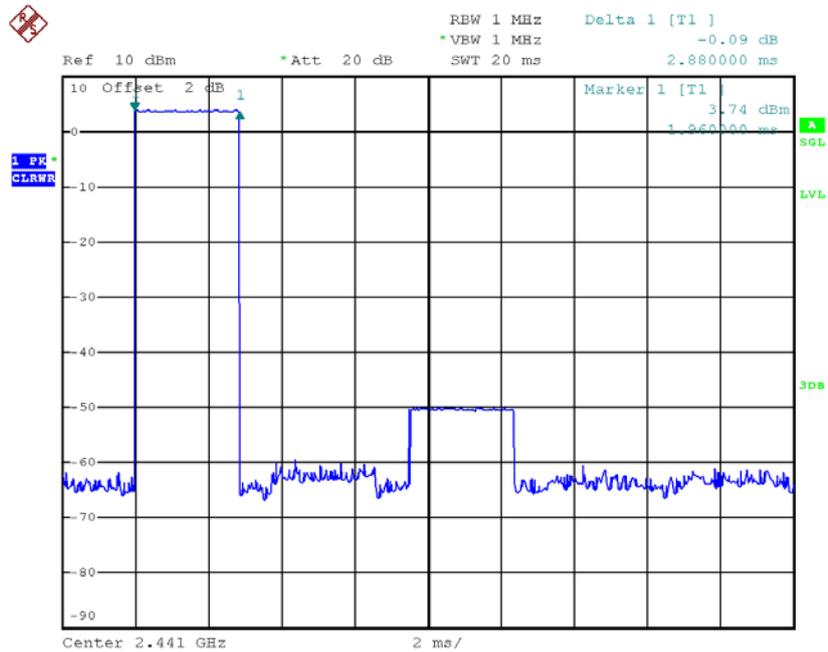
CH39-DH1



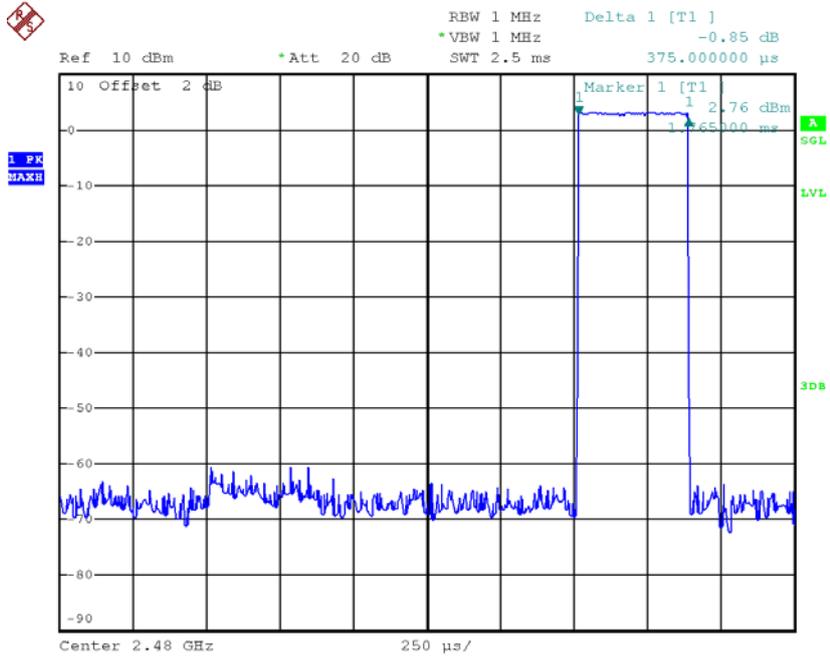
CH39-DH3



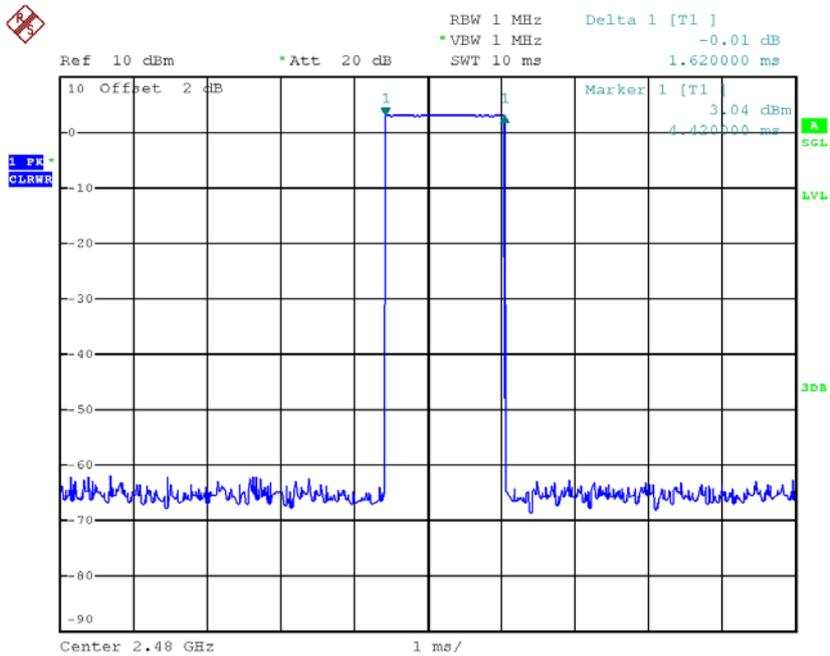
CH39-DH5



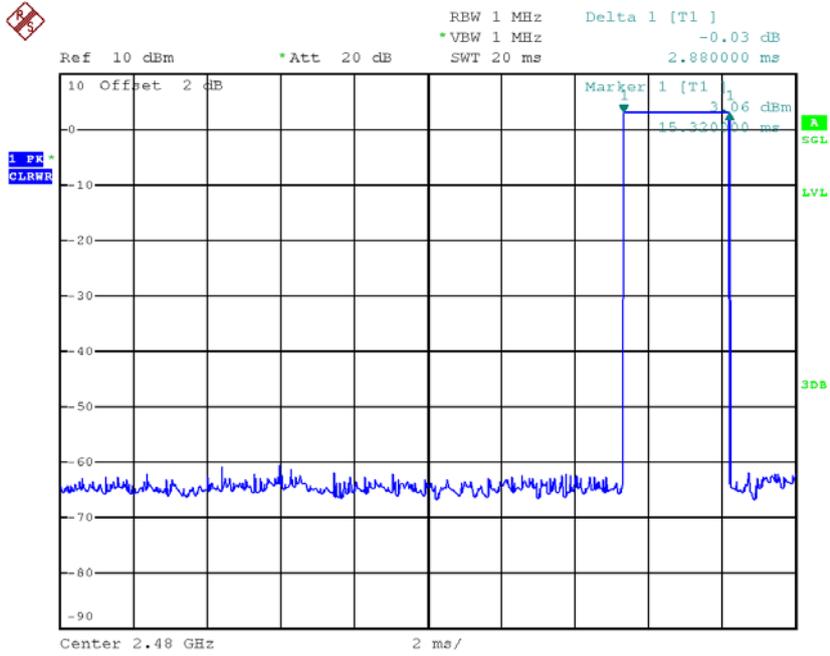
CH78-DH1



CH78-DH3



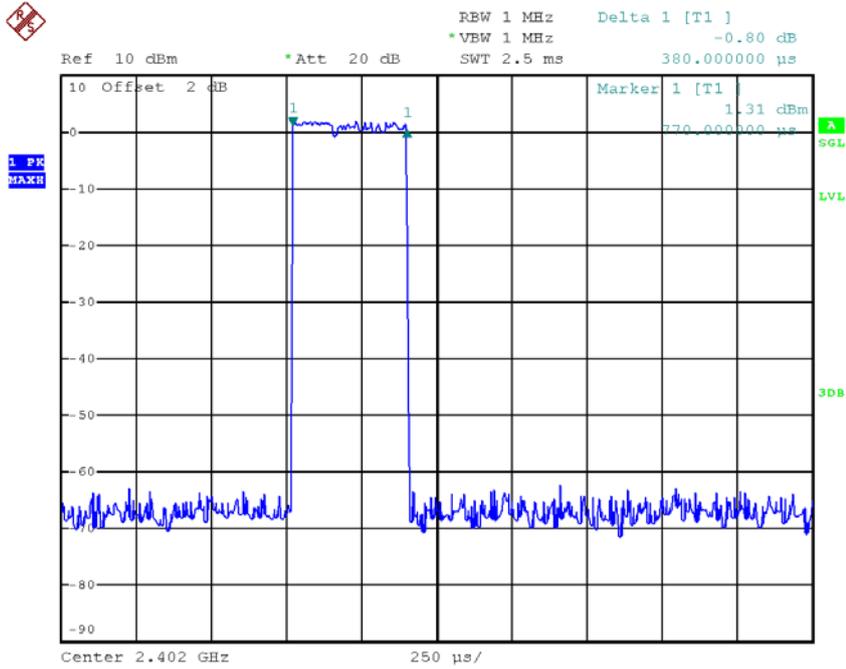
CH78-DH5



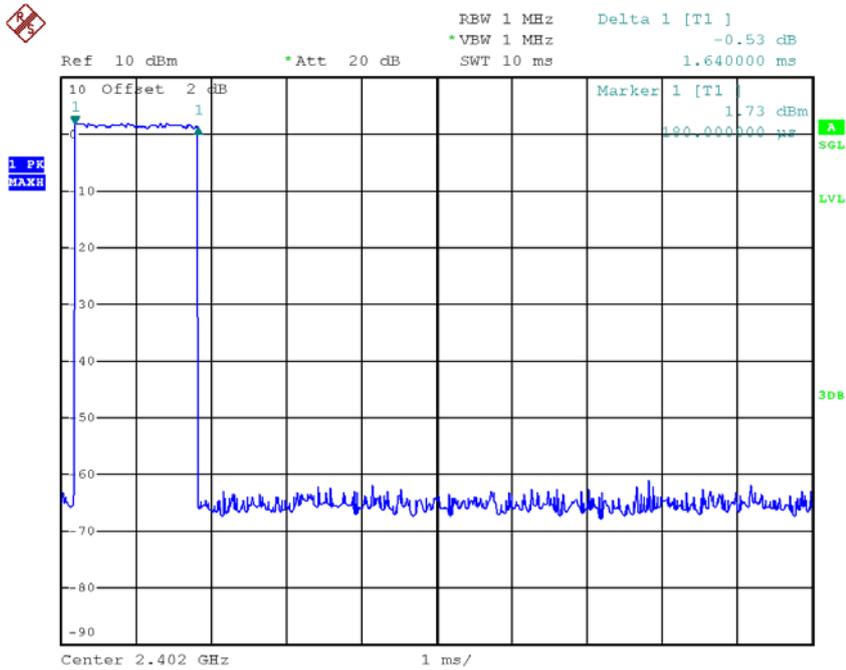
Test Mode :	TX Mode_3Mbps
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Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3800	0.1216	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3800	0.1216	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH1	2480	0.3800	0.1216	0.4000	Pass

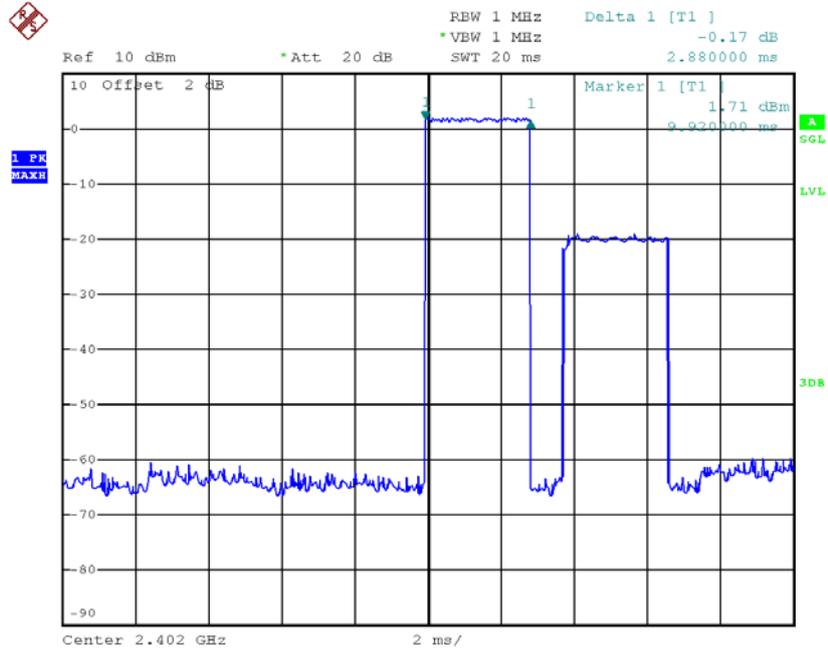
CH00-DH1



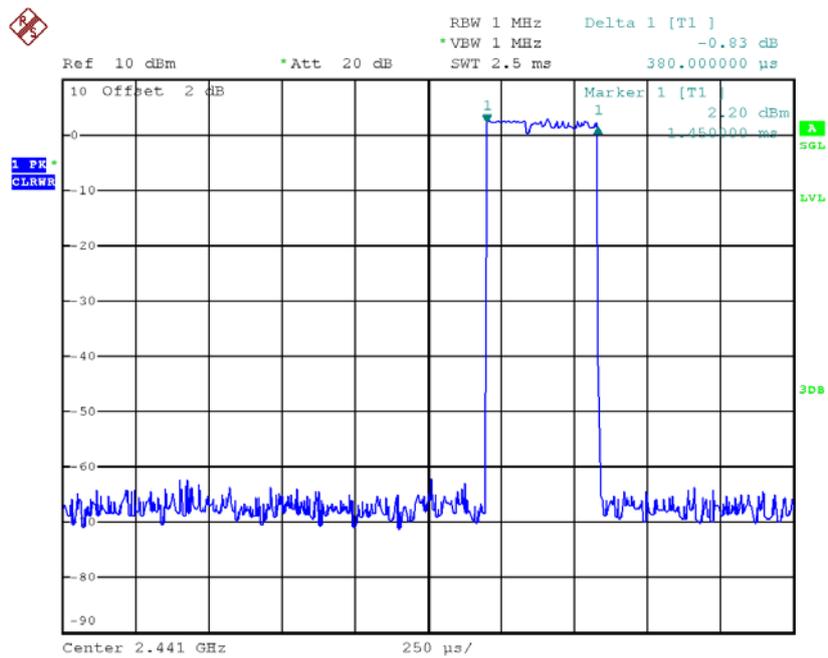
CH00-DH3



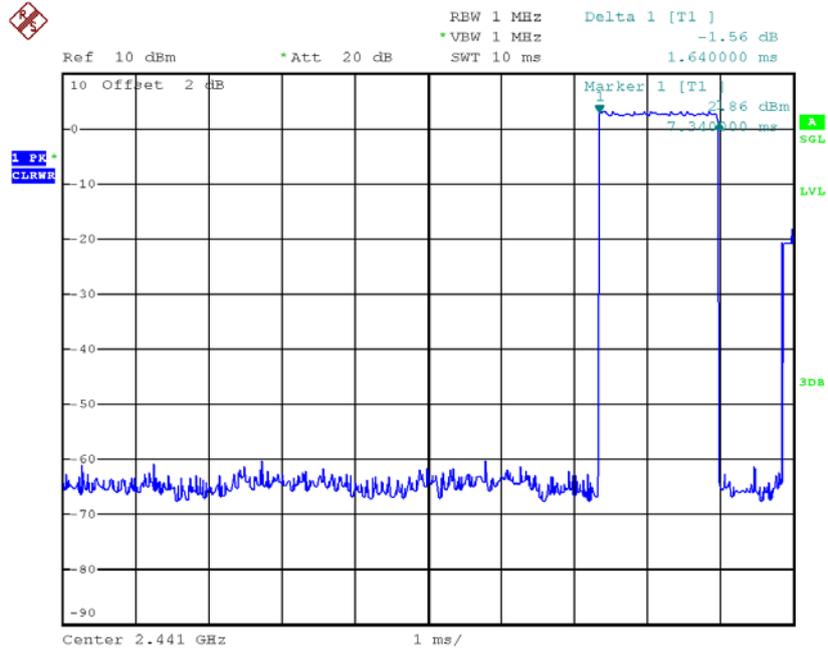
CH00-DH5



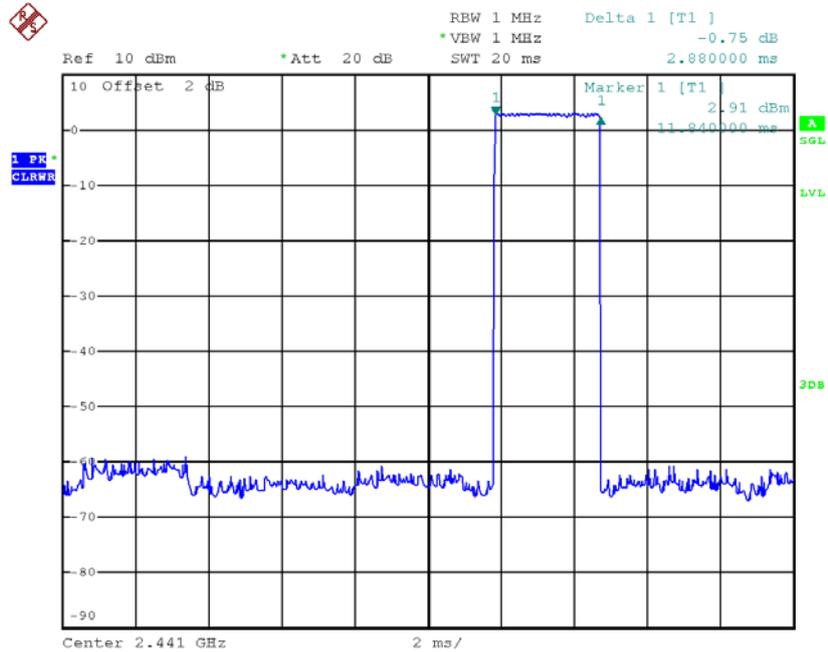
CH39-DH1



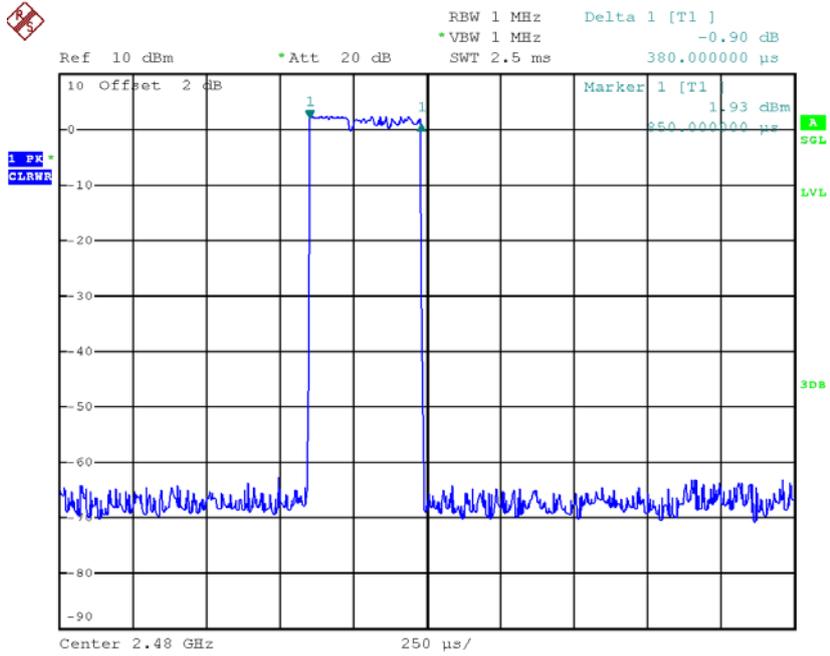
CH39-DH3



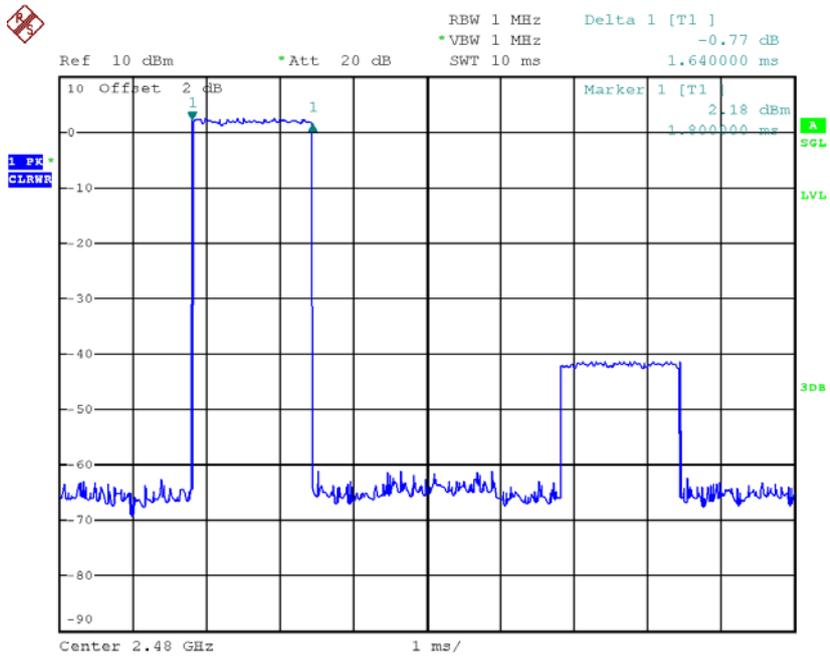
CH39-DH5



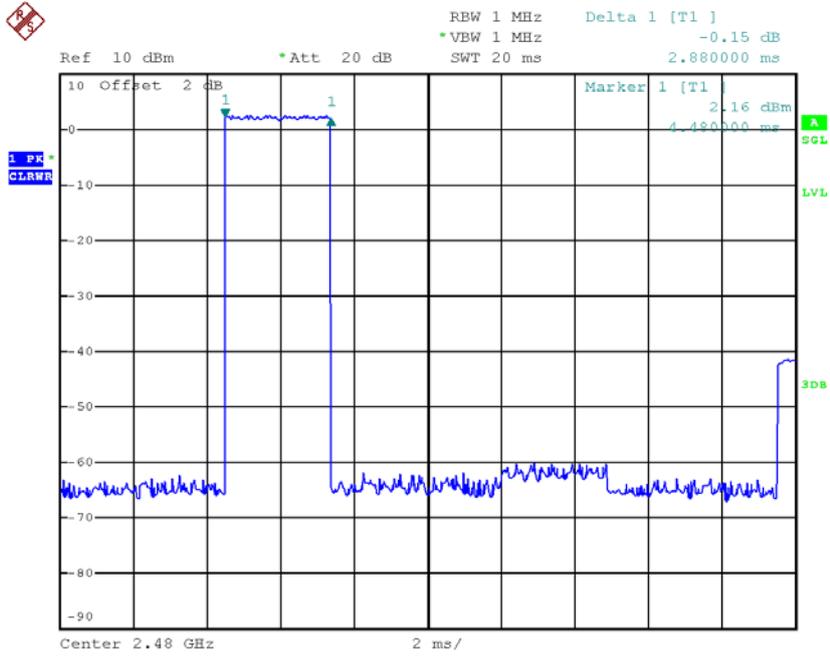
CH78-DH1



CH78-DH3



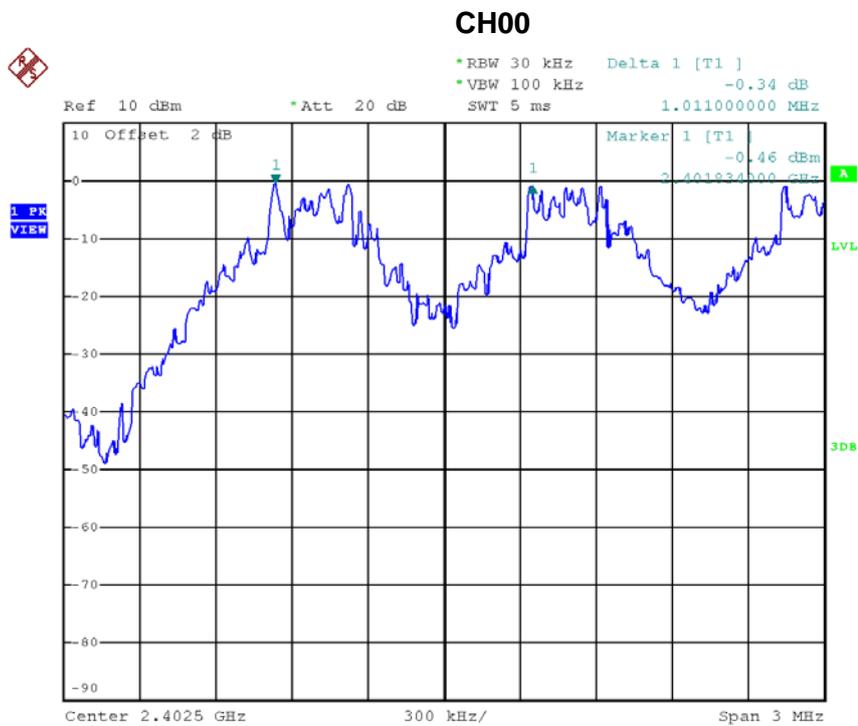
CH78-DH5



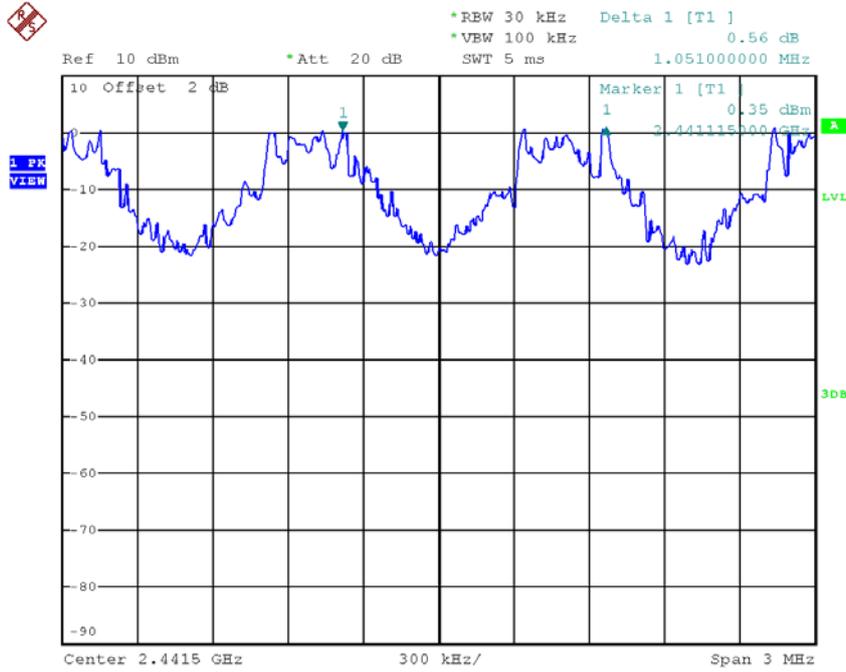
ATTACHMENT G - HOPPING CHANNEL SEPARATION MEASUREMENT

Test Mode : Hopping on _1Mbps

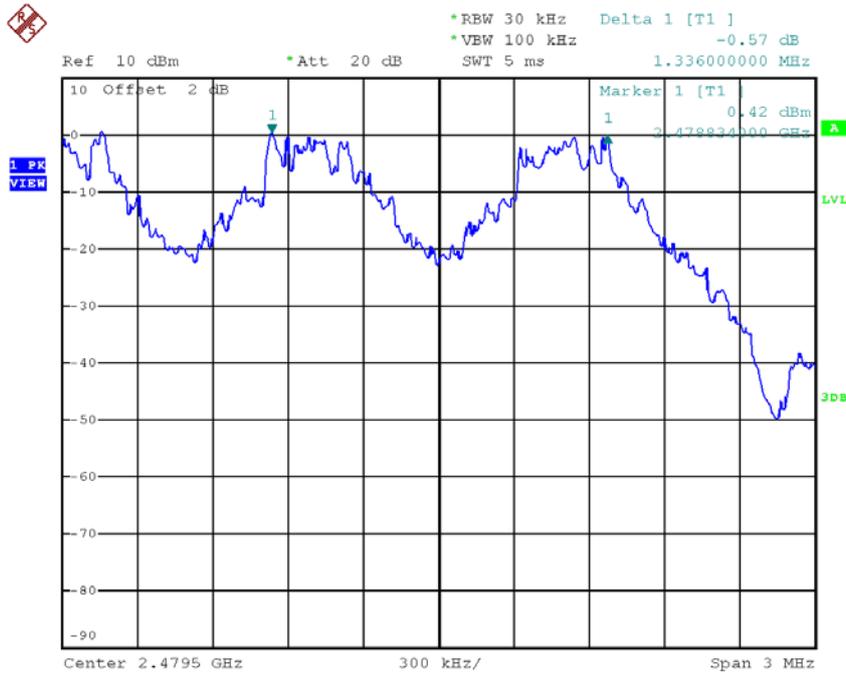
Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.011	0.689	Pass
2441	1.051	0.644	Pass
2480	1.336	0.672	Pass



CH39

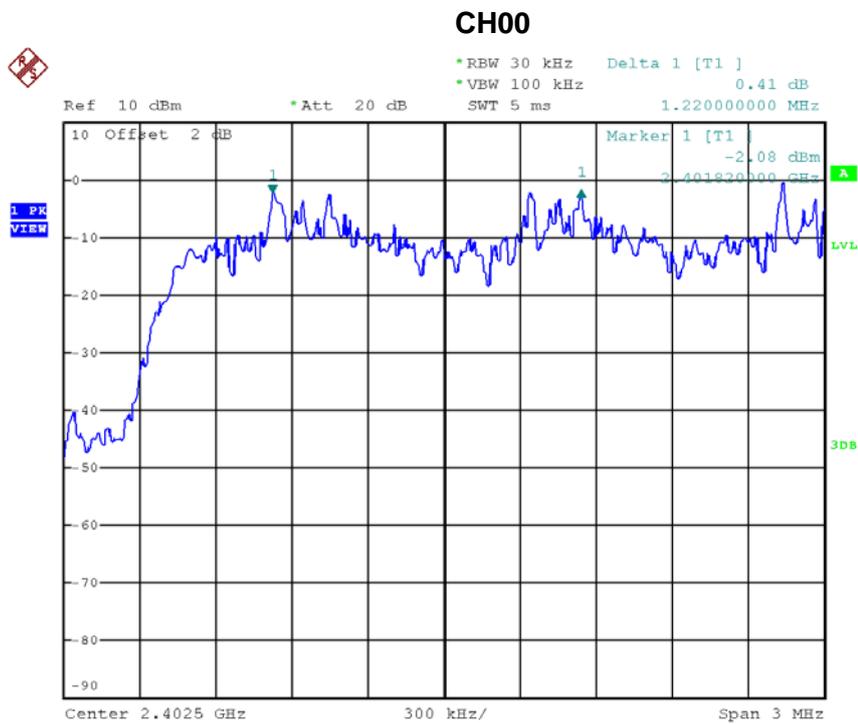


CH78

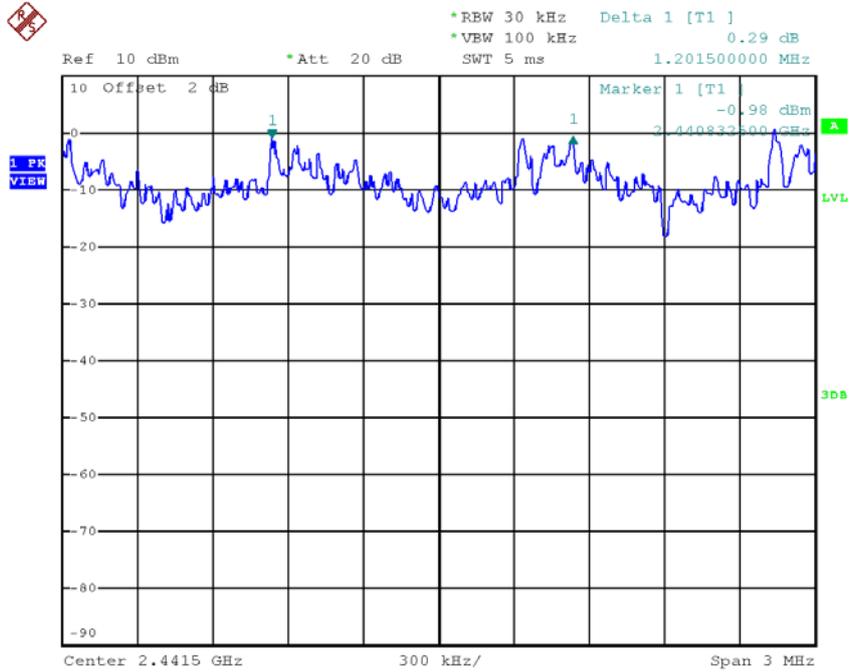


Test Mode : Hopping on _3Mbps

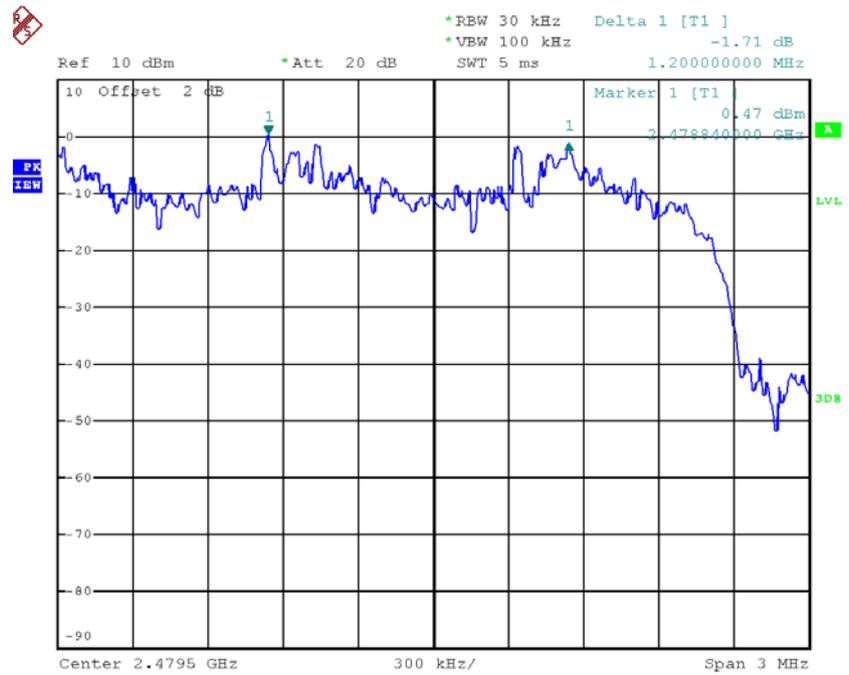
Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.220	0.863	Pass
2441	1.202	0.865	Pass
2480	1.200	0.859	Pass



CH39



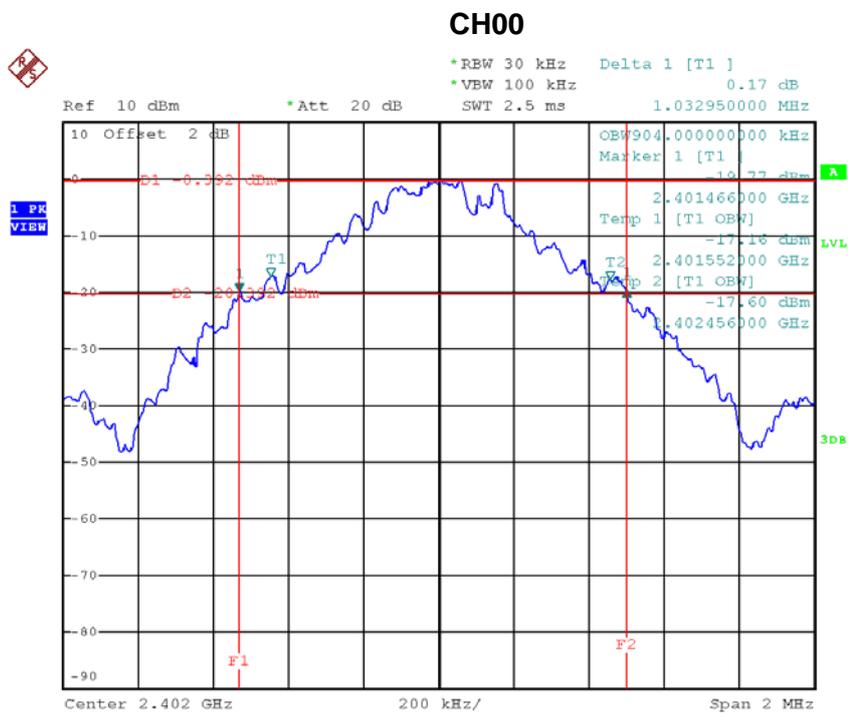
CH78



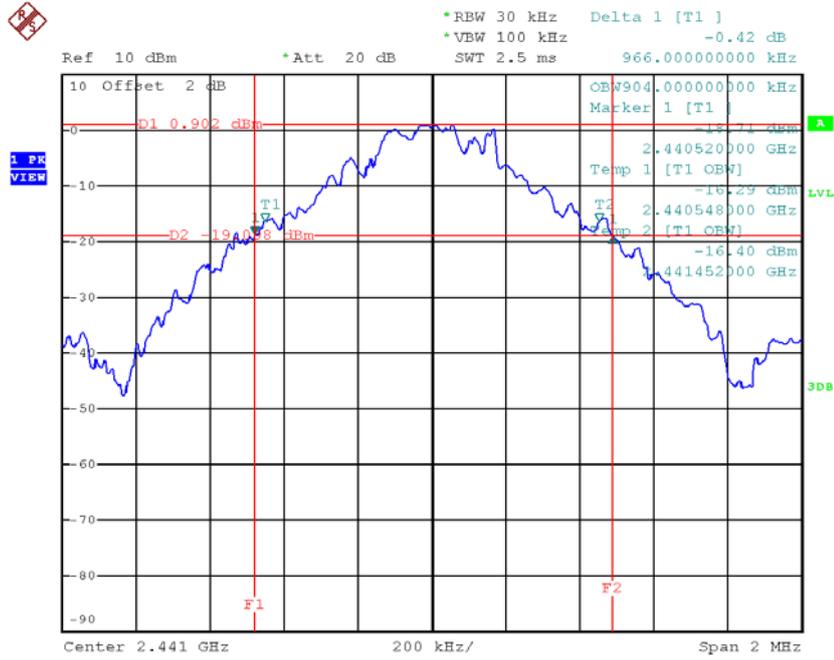
ATTACHMENT H - BANDWIDTH

Test Mode : TX Mode _1Mbps

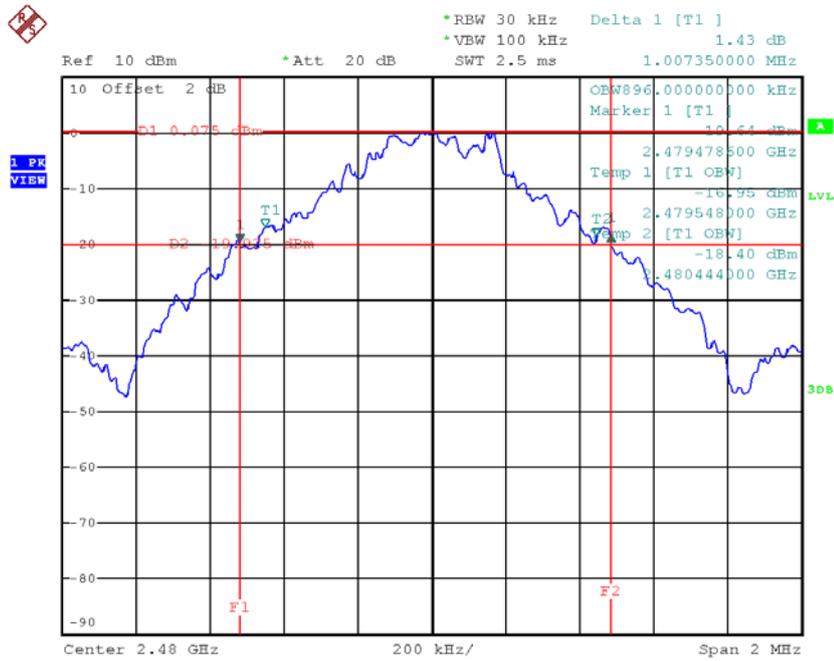
Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.033	0.904	Pass
2441	0.966	0.904	Pass
2480	1.007	0.896	Pass



CH39

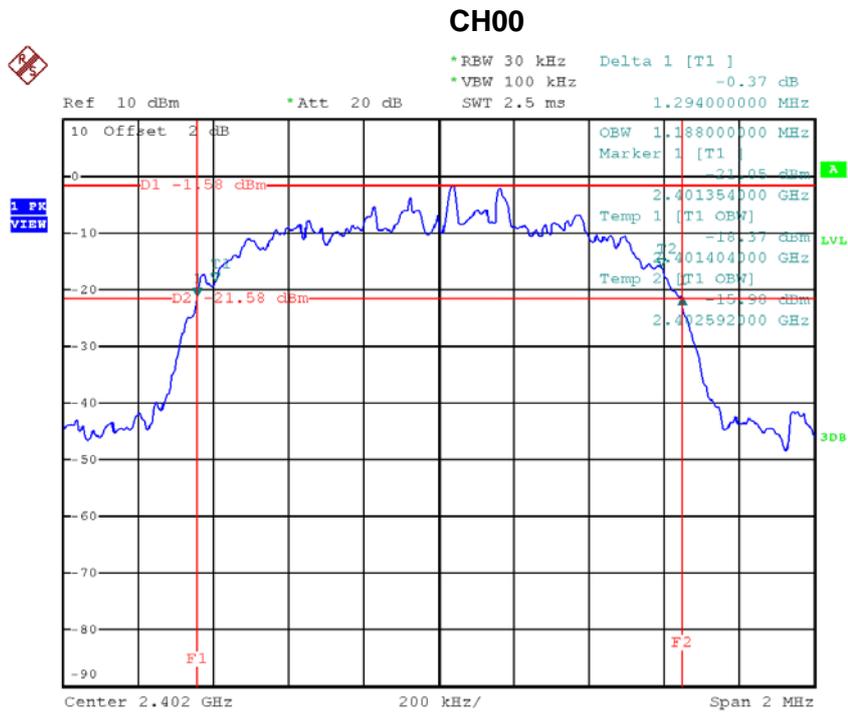


CH78

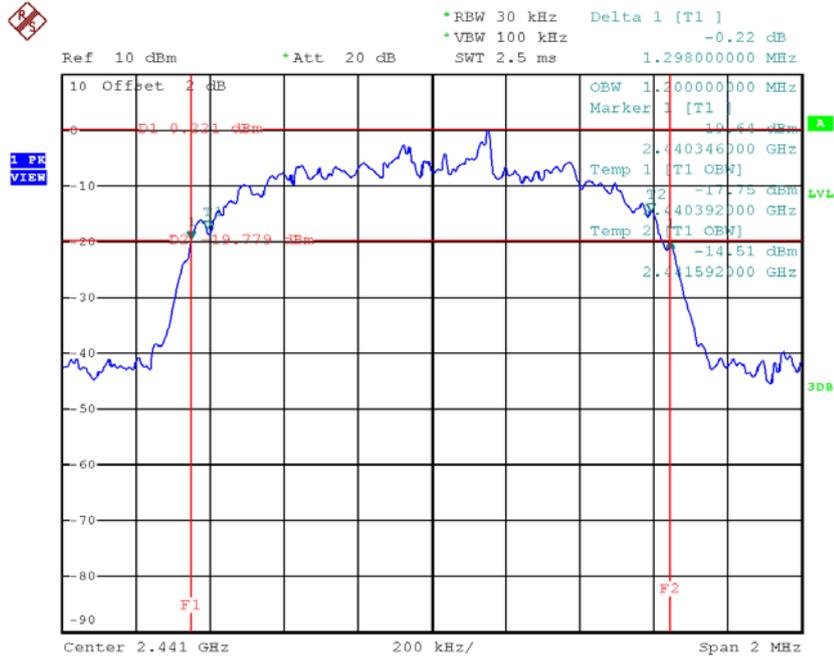


Test Mode : TX Mode _3Mbps

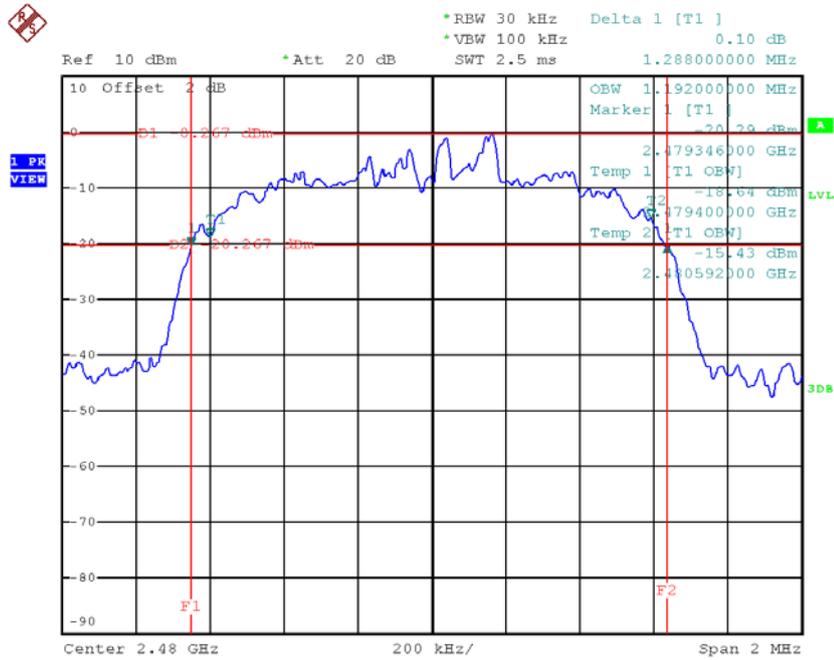
Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.294	1.188	Pass
2441	1.298	1.200	Pass
2480	1.288	1.192	Pass



CH39



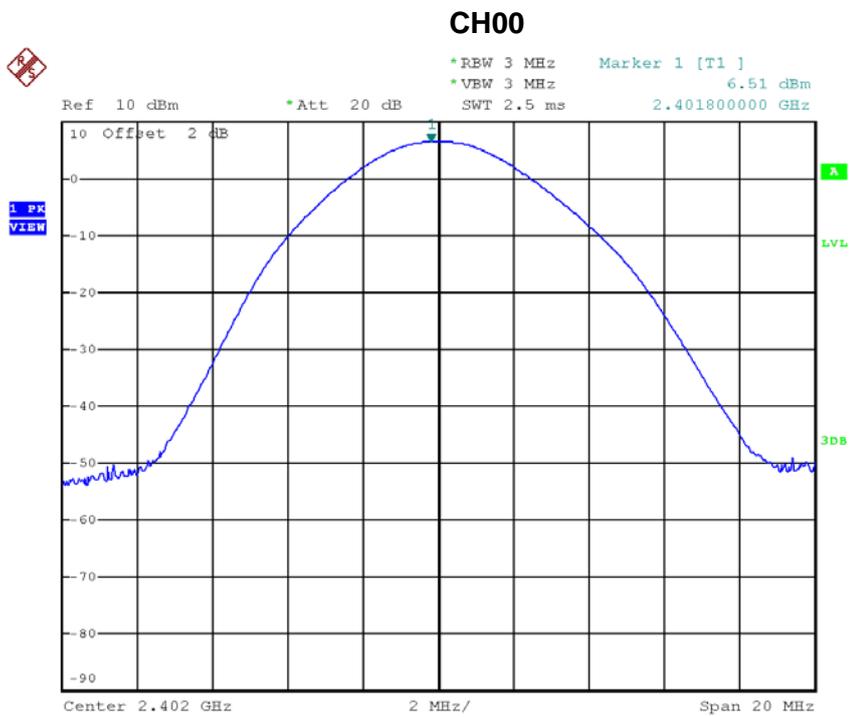
CH78



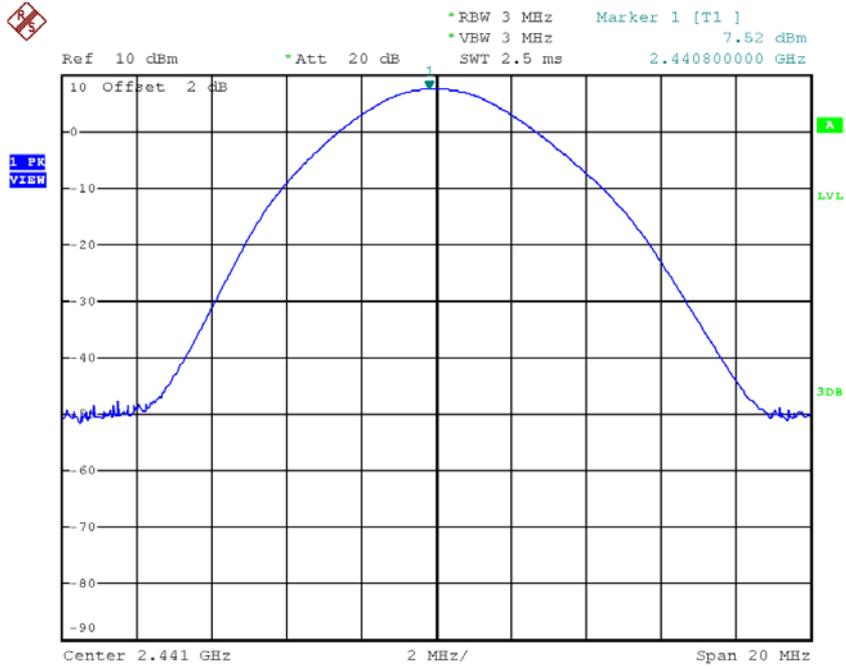
ATTACHMENT I - PEAK OUTPUT POWER

Test Mode : TX Mode _1Mbps

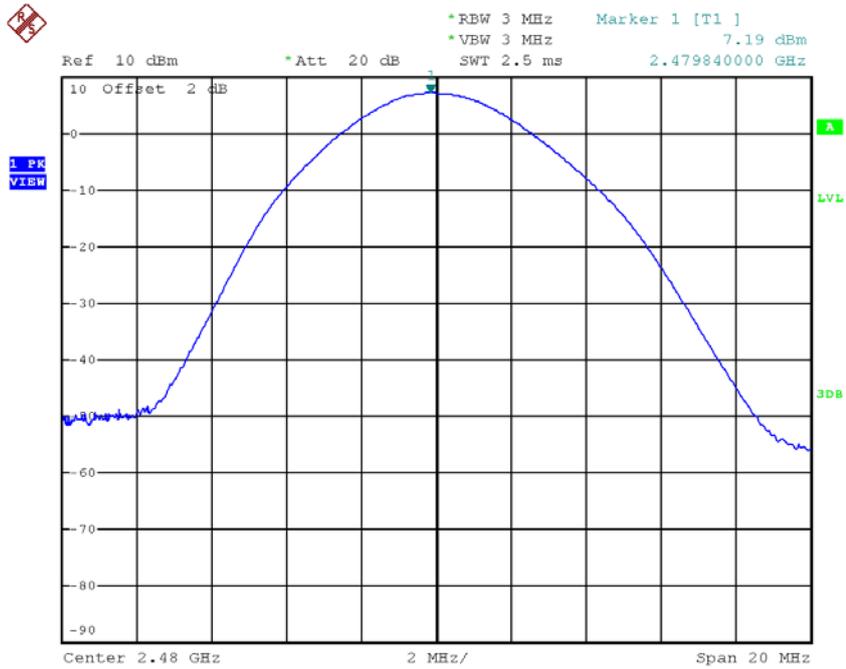
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	6.51	0.0045	30.00	1.00	Pass
2441	7.52	0.0056	30.00	1.00	Pass
2480	7.19	0.0052	30.00	1.00	Pass



CH39

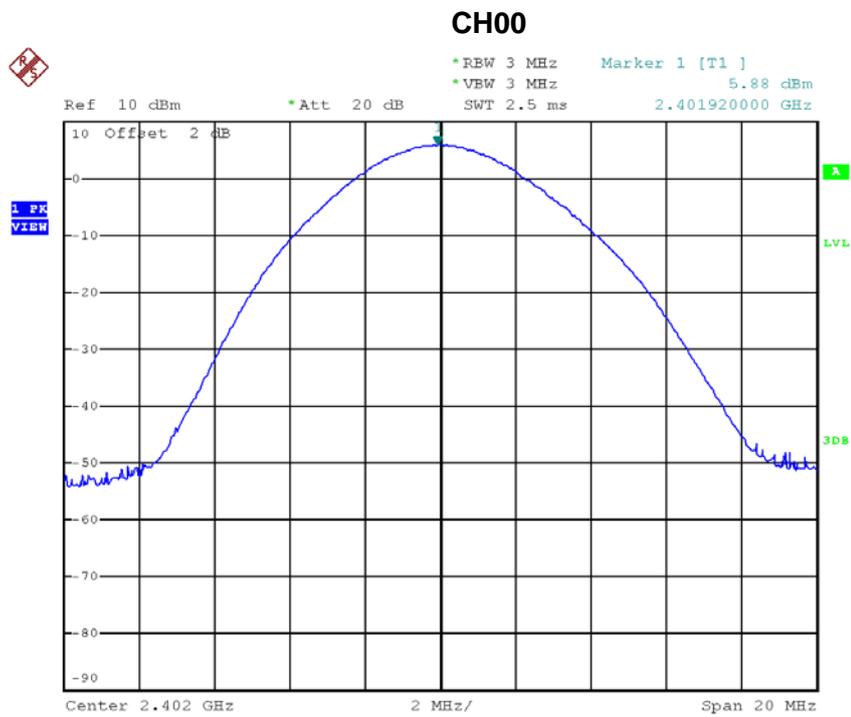


CH78

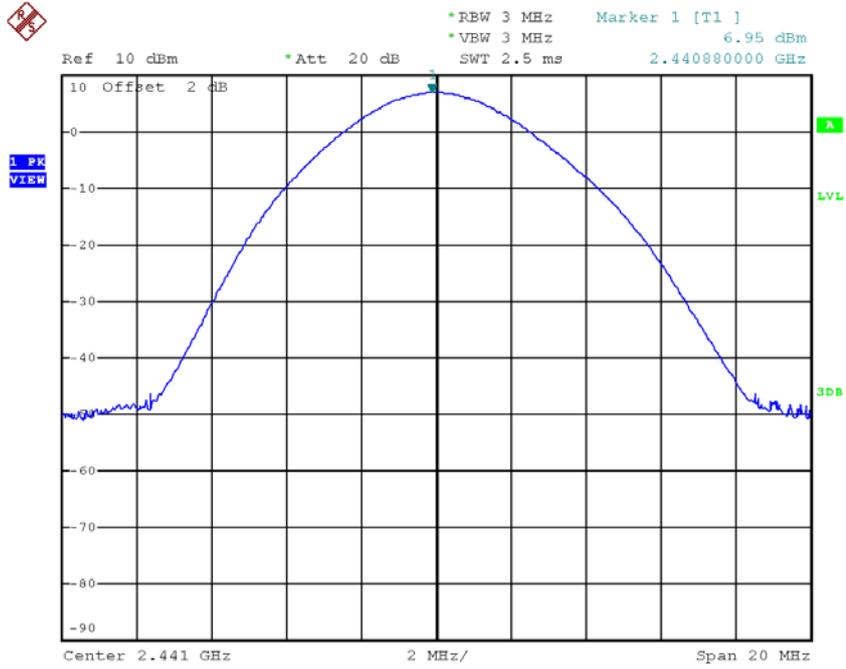


Test Mode : TX Mode _3Mbps

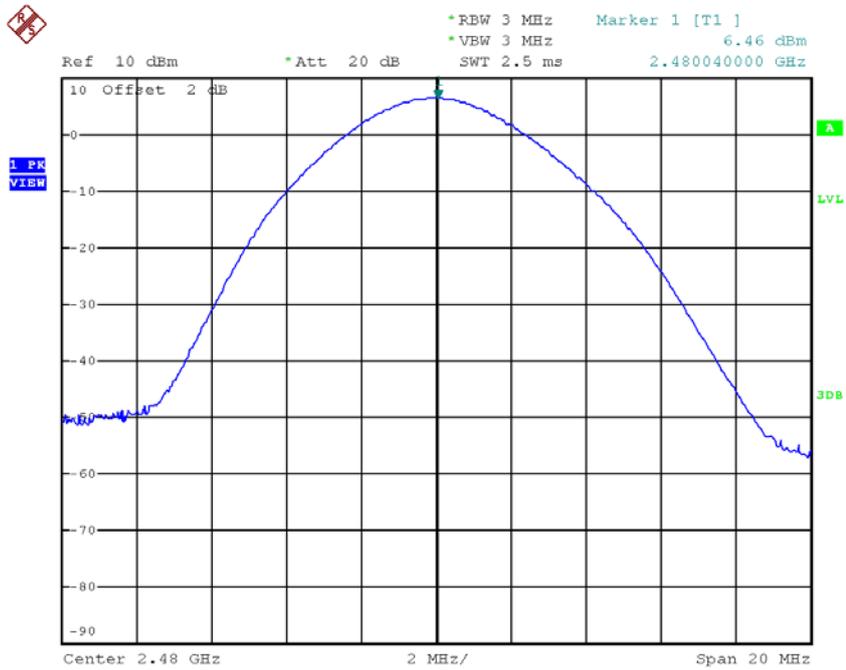
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	5.88	0.0039	30.00	1.00	Pass
2441	6.95	0.0050	30.00	1.00	Pass
2480	6.46	0.0044	30.00	1.00	Pass



CH39

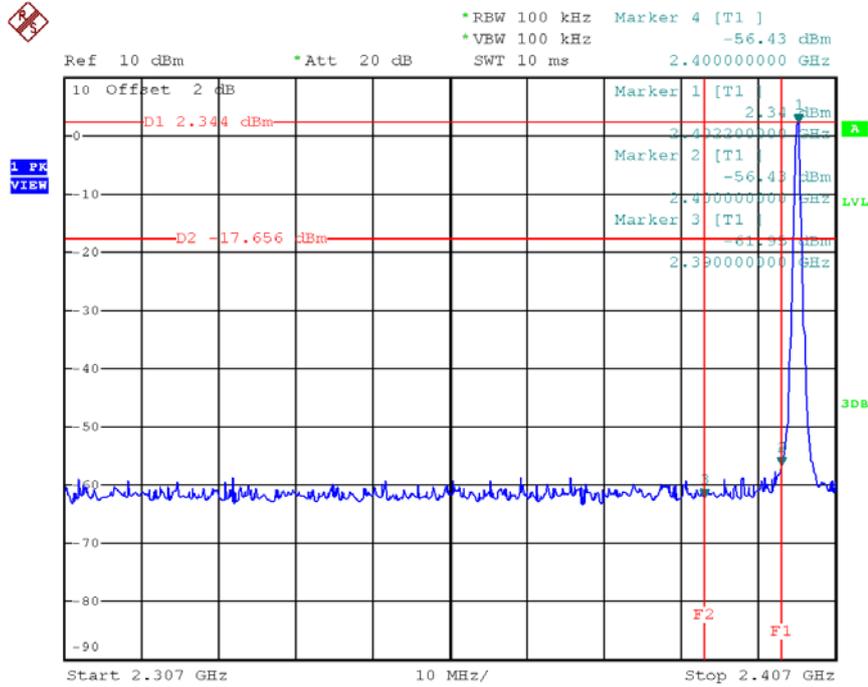


CH78

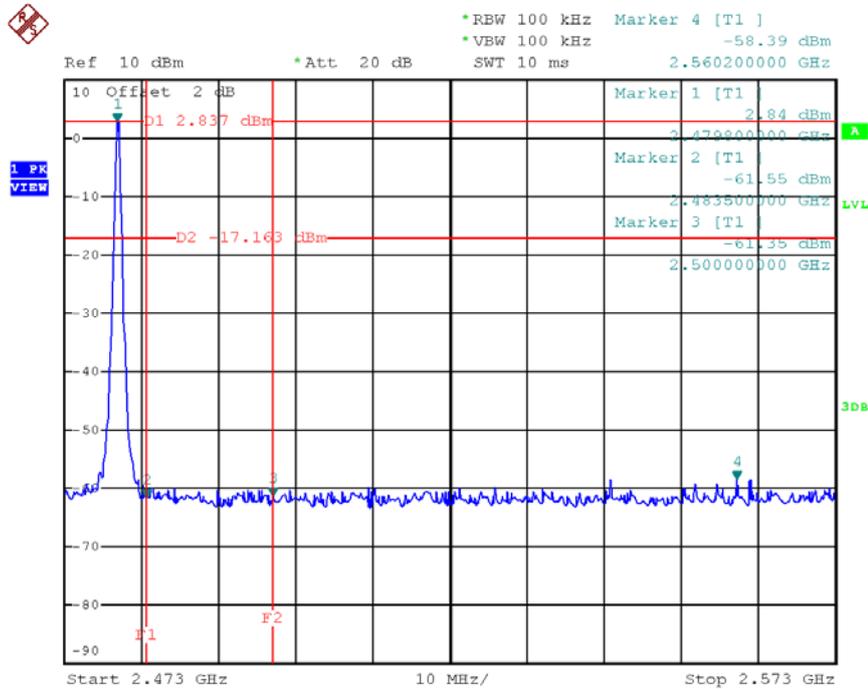


ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION

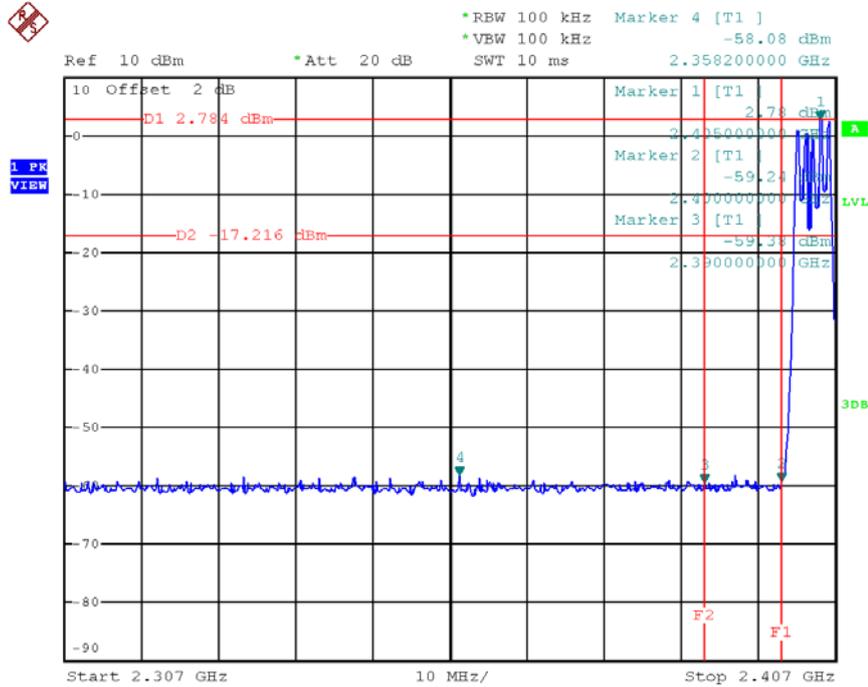
CH00 (Lower)_1Mbps



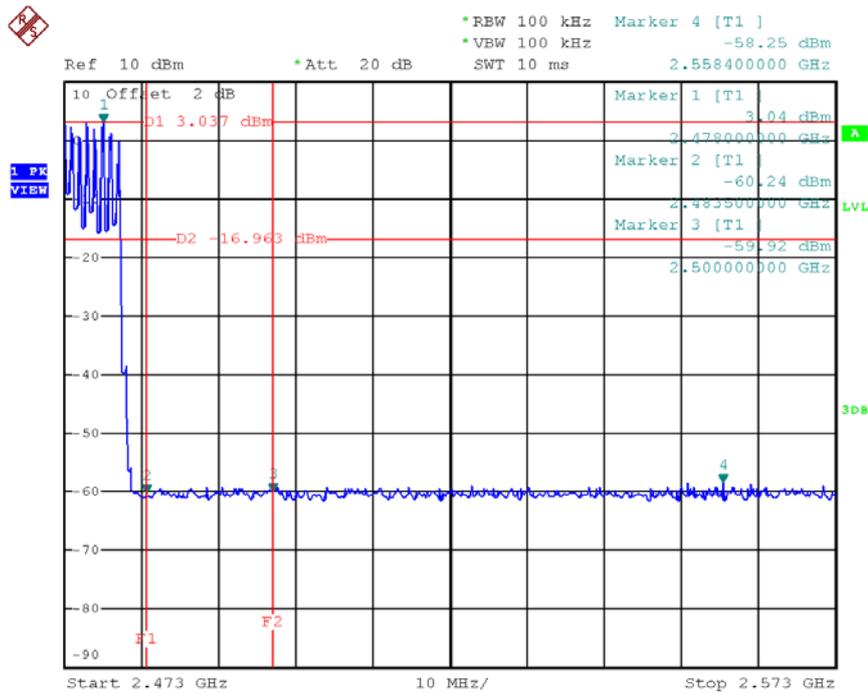
CH78 (Upper)_1Mbps



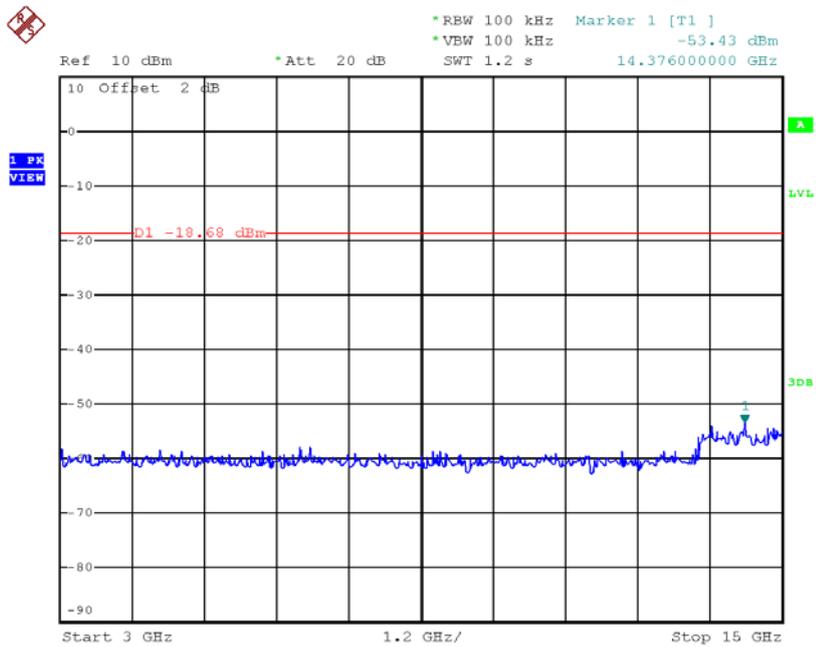
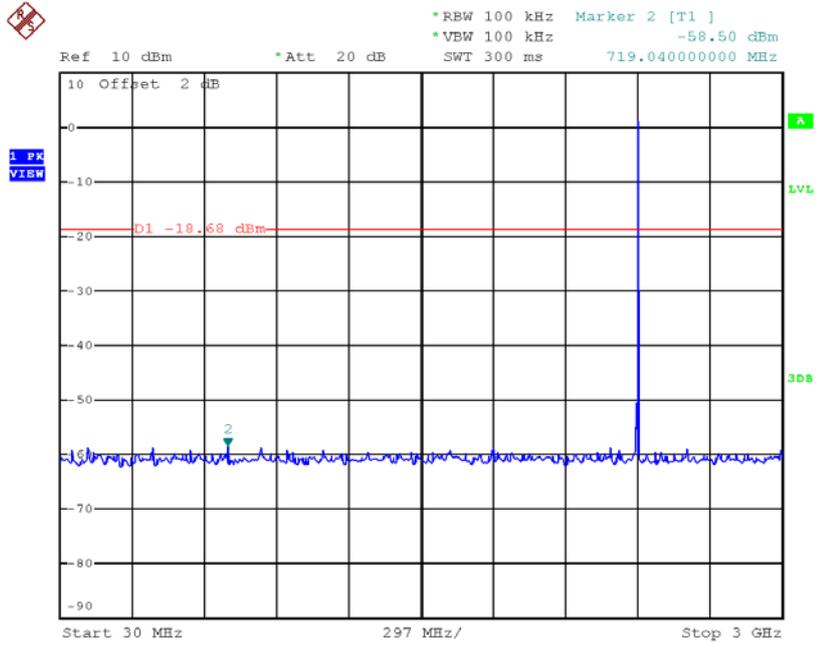
CH00 Hopping on mode (Lower)_1Mbps

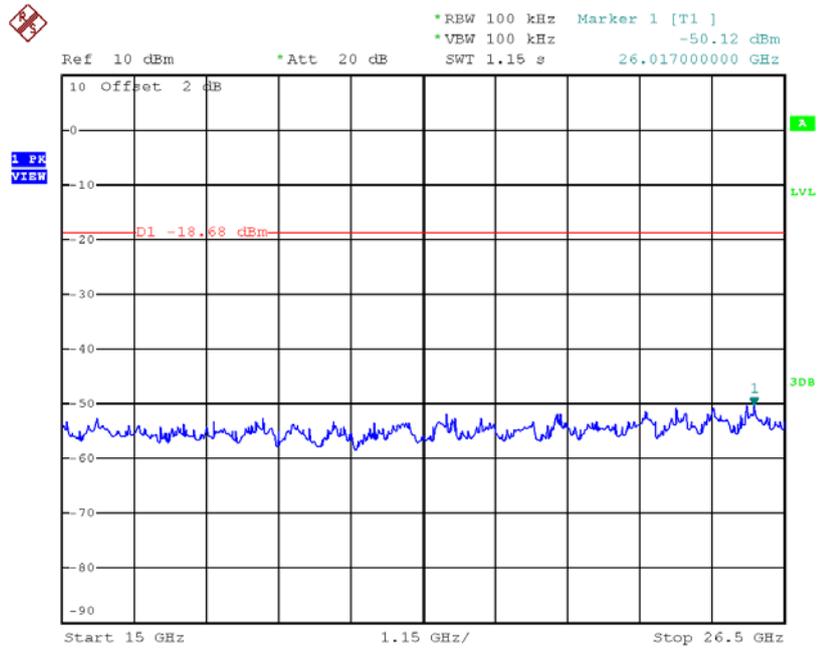


CH78 Hopping on mode (Upper)_1Mbps

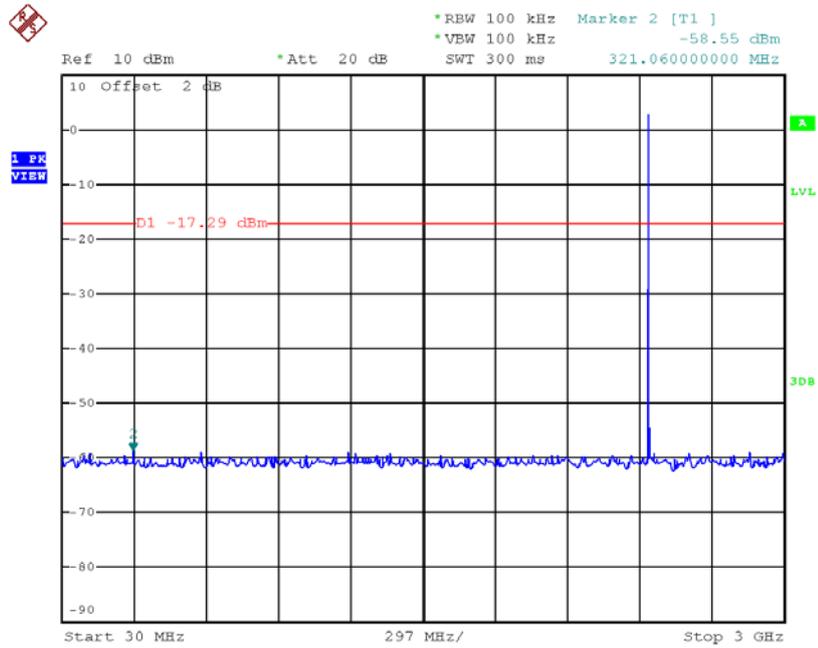


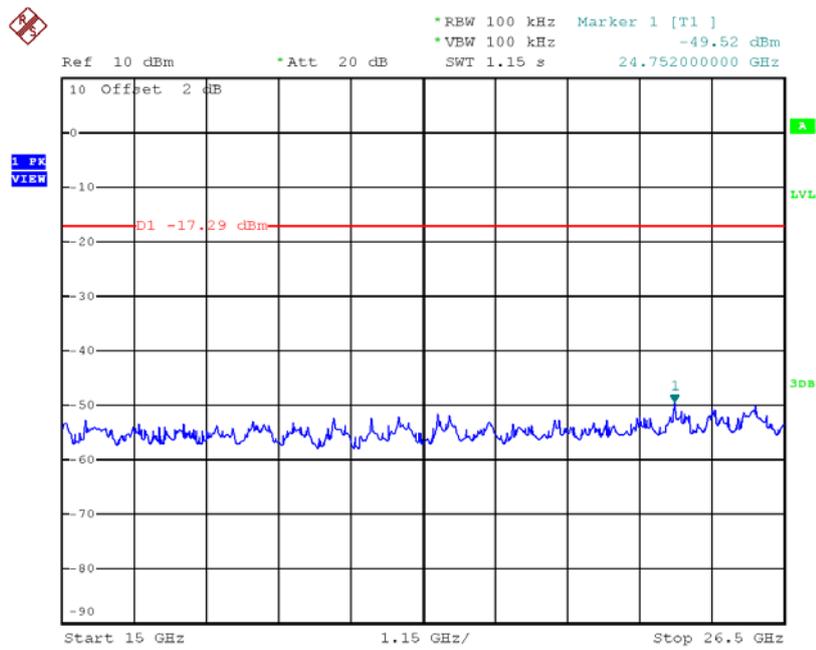
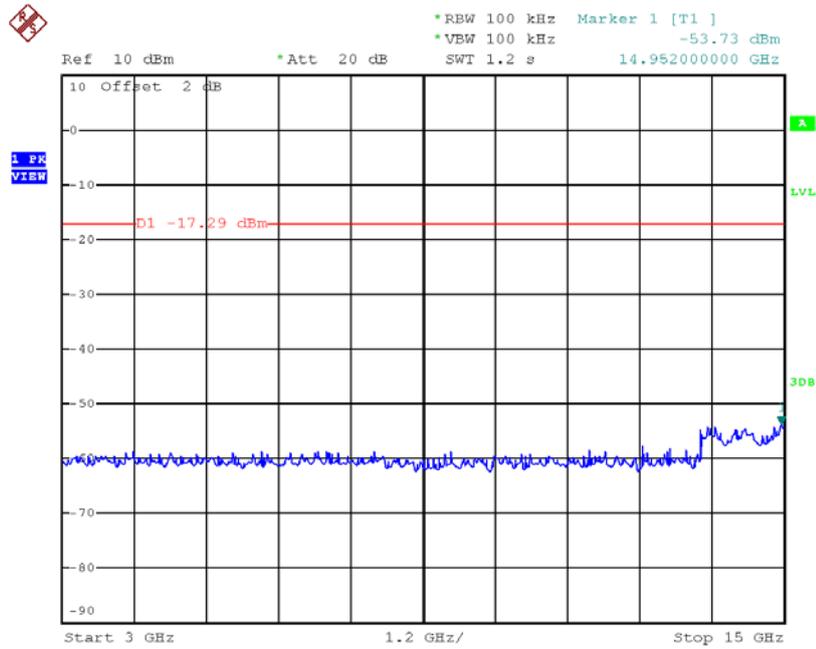
CH00 (10 Harmonic of the frequency) _1Mbps



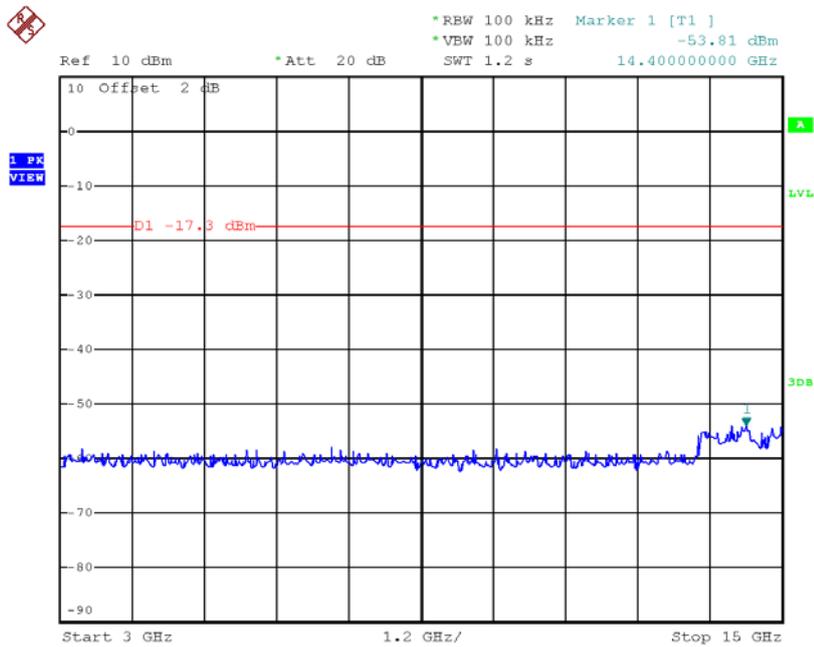
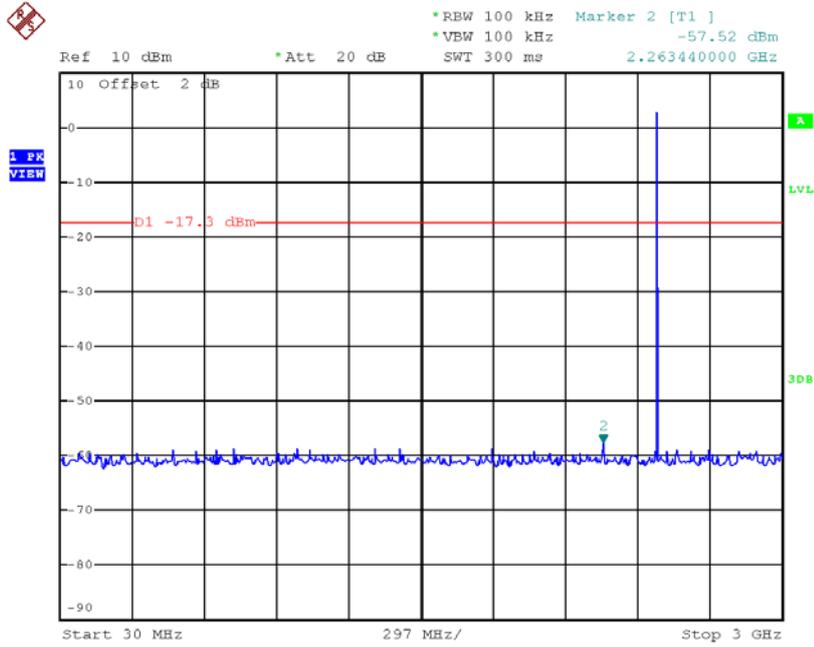


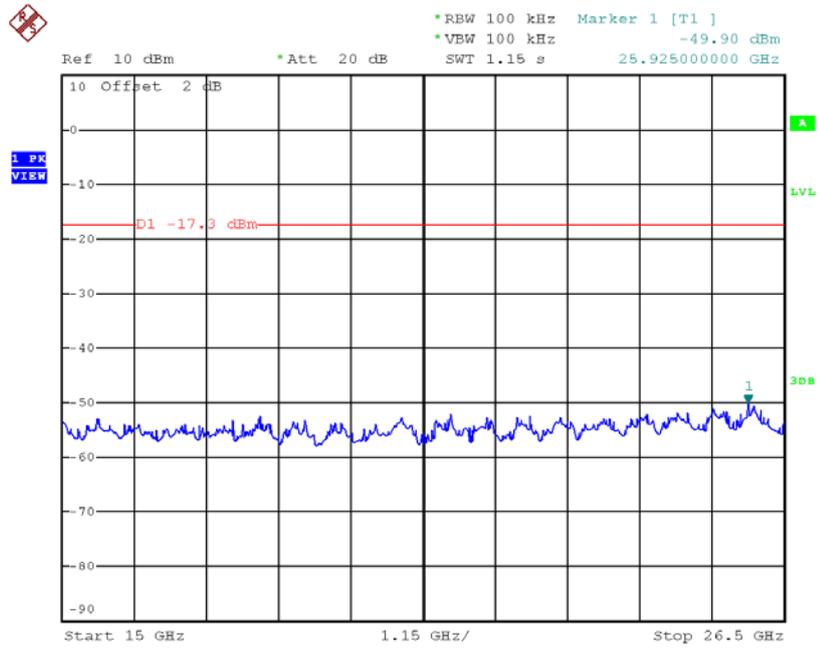
CH39 (10 Harmonic of the frequency) _1Mbps



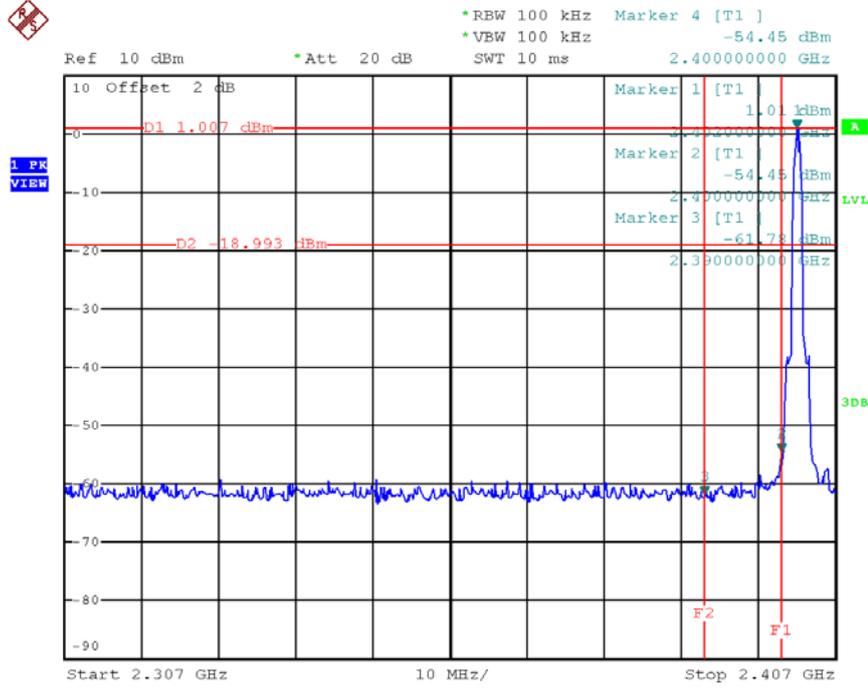


CH78 (10 Harmonic of the frequency) _1Mbps

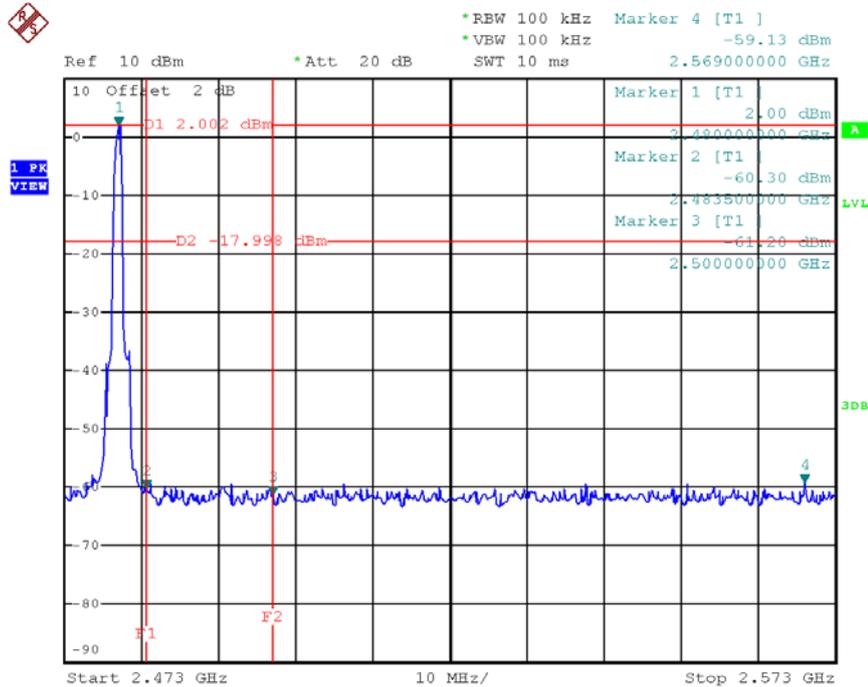




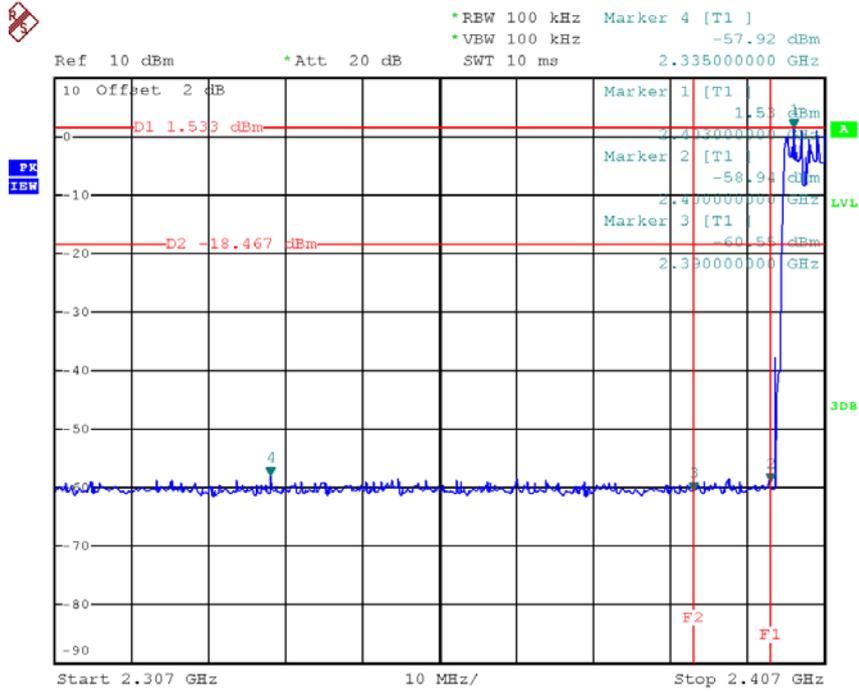
CH00 (Lower) _3Mbps



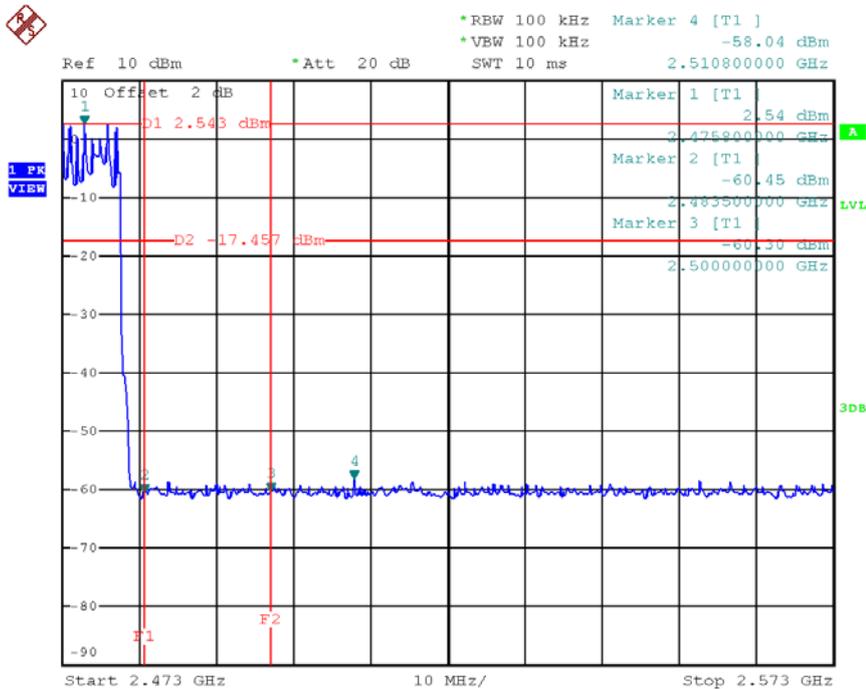
CH78 (Upper) _3Mbps



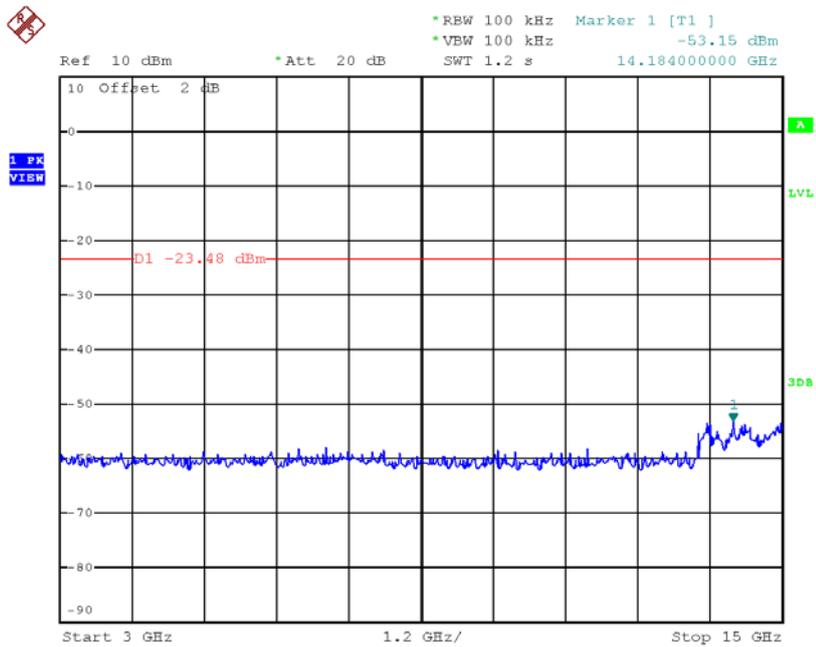
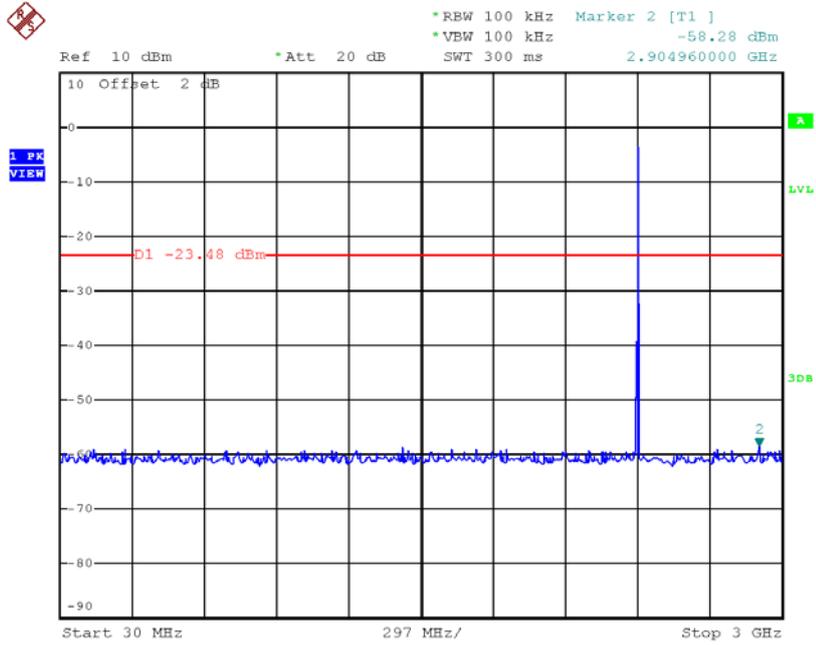
CH00 Hopping on mode (Lower) _3Mbps

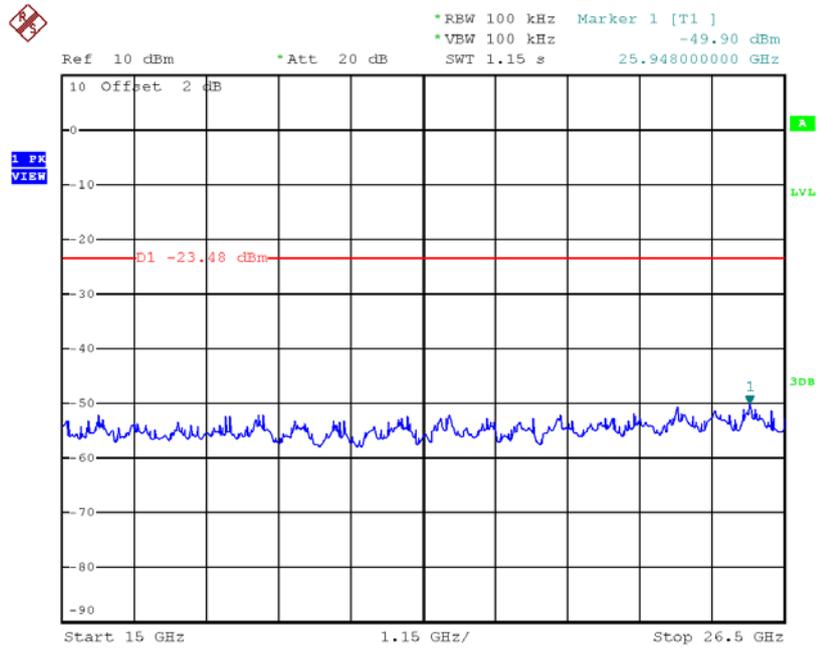


CH78 Hopping on mode (Upper) _3Mbps

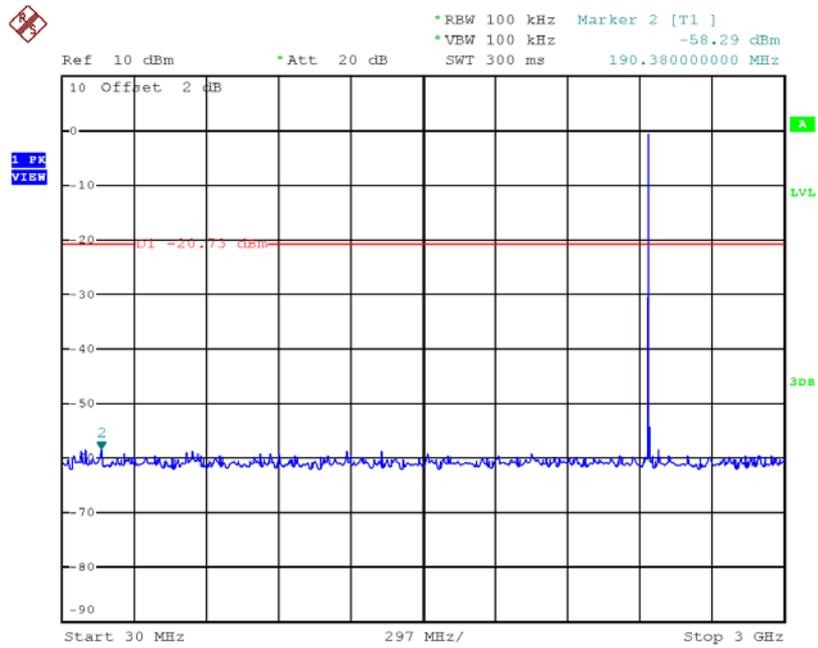


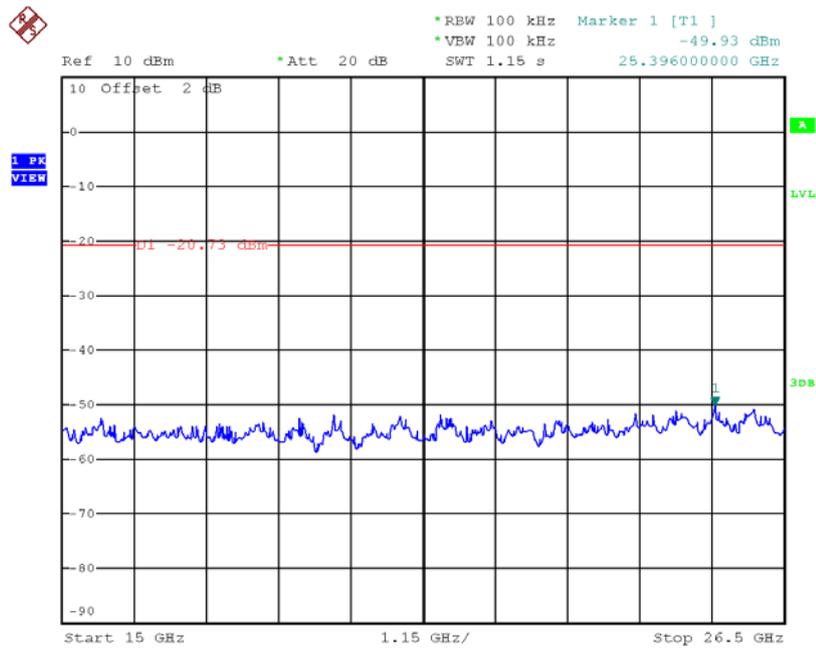
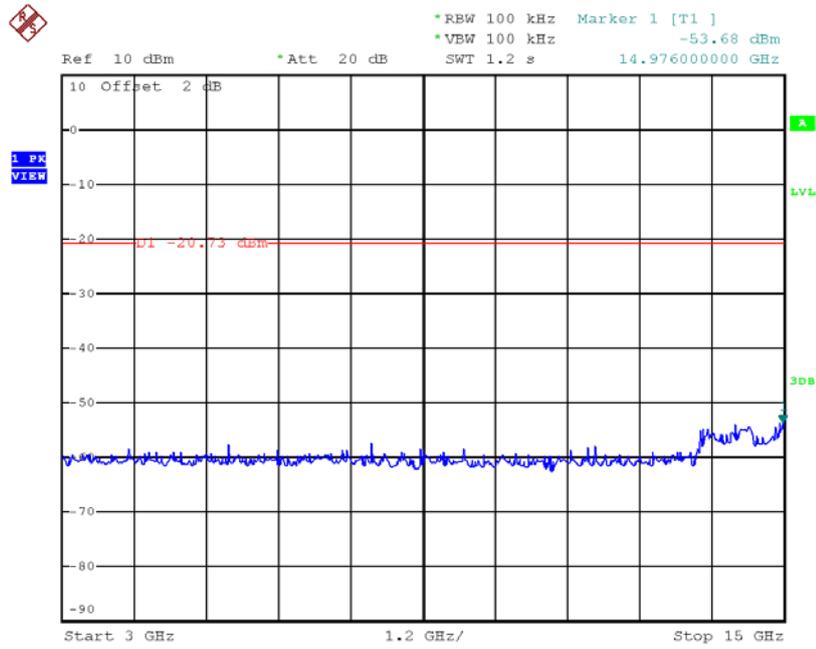
CH00 (10 Harmonic of the frequency) _3Mbps





CH39 (10 Harmonic of the frequency) _3Mbps





CH78 (10 Harmonic of the frequency) _3Mbps

