

FCC Radio Test Report

FCC ID: QISBG2-U03

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

Project No. : 1707C204
Equipment : HUAWEI MediaPad T3 7
Model Name : BG2-U03
Applicant : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

Date of Receipt : Jul. 24, 2017
Date of Test : Jul. 24, 2017 ~ Aug. 09, 2017
Issued Date : Aug. 10, 2017
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1707C204	Original Issue.	Aug. 10, 2017

1. CERTIFICATION

Equipment : HUAWEI MediaPad T3 7
Brand Name : HUAWEI
Model Name : BG2-U03
Applicant : Huawei Technologies Co.,Ltd.
Manufacturer : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District Shenzhen China
Date of Test : Jul. 24, 2017 ~ Aug. 09, 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-1-1707C204) 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).

Test results included in this report is only for the Bluetooth EDR part.

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℃
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	HUAWEI MediaPad T3 7	
Brand Name	HUAWEI	
Model Name	BG2-U03	
Model Difference	N/A	
Power Source	#1 DC voltage supplied from AC/DC adapter. #2 Supplied from battery. #3 Supplied from USB port.	
Power Rating	#1 Input: 100-240V~50/60Hz 0.2A Output: 5V---1A #2 DC 3.7V #3 EUT I/P: DC 5V	
HW Version	Bg2-3G V1.0	
SW Version	BG2-U03C331B015	
Output Power (Max.)	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps) π/4-DQPSK(2Mbps)
	Bit Rate of Transmitter	8-DPSK(3Mbps)
	Output Power Max.	8.71 dBm(1Mbps) 10.90 dBm(3Mbps)

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT contains following accessory devices

Item	Mfr/Brand	Model.
Adapter	HUIZHOU BYD ELECTRONIC CO.,LTD	HW-050100U01
	SHENZHEN HUNTKEY ELECTRIC CO.,LTD	
	DONGGUAN PHITEK ELECTRONICS CO.,LTD	
USB Cable	HONGLIN TECHNOLOGY CO.,LTD	130-26654
	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	CUBB01M-HC208-DH
	Luxshare Precision Industry Co., Ltd	L99U2013-CS-H
Battery	Harbin Coslight Power Co., Ltd	HB3G1
	SCUD (FUJIAN) Electronics Co., Ltd	HB3G1
	Sunwoda Electronic Co., LTD	HB4269B6EAW

3. 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		

4. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	0.31

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:

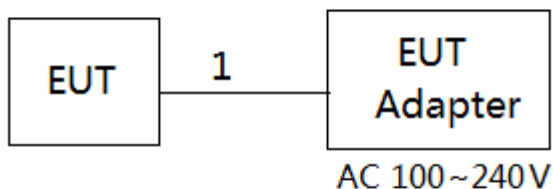
- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

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	NA		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	33	33	33
Parameters(3Mbps)	33	33	33

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

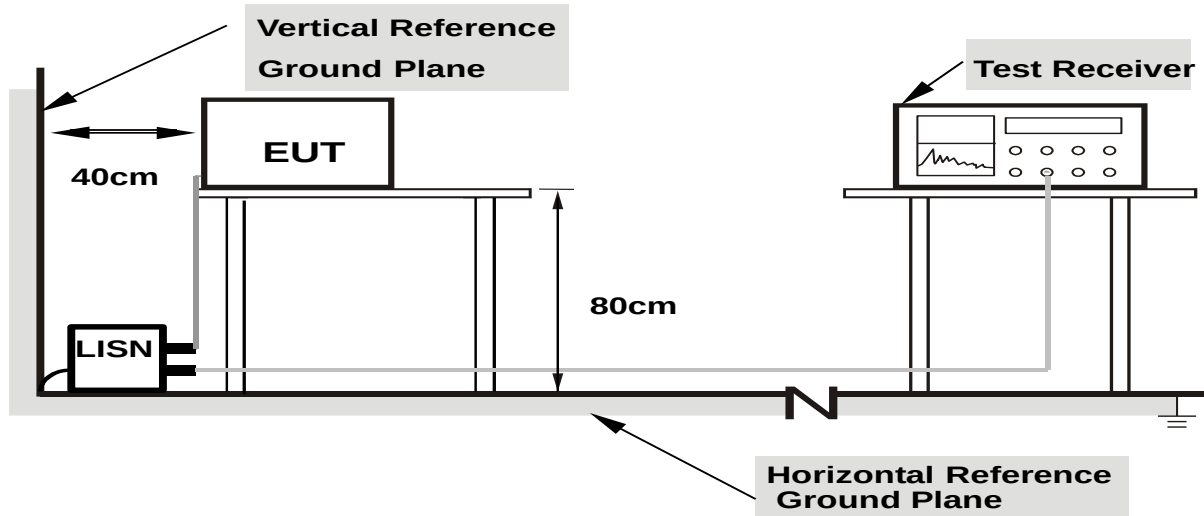
4.1.2 TEST PROCEDURE

- 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 Appendix 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.
- (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)

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

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

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

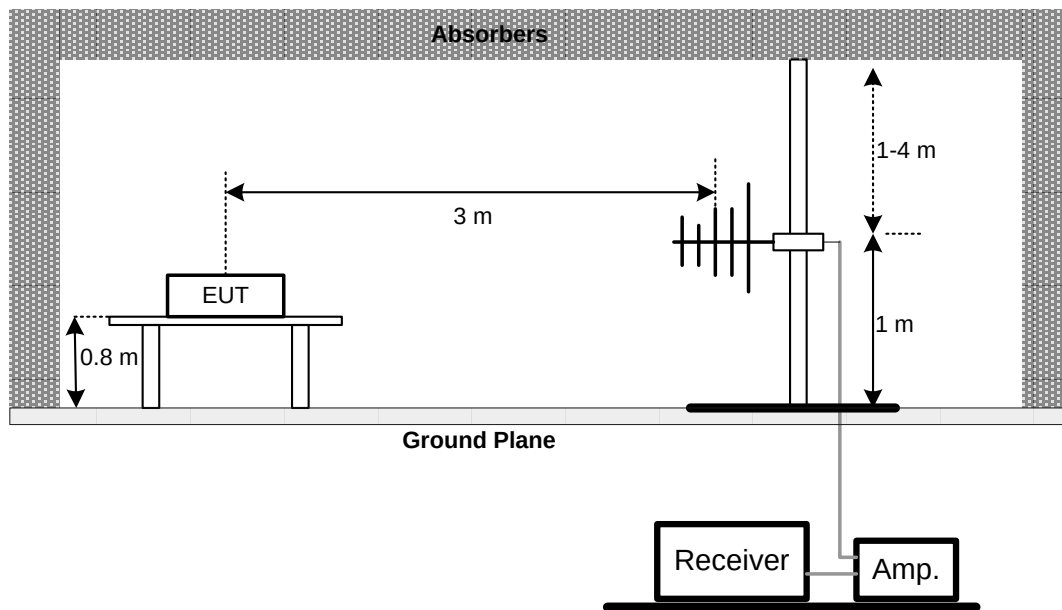
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- 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 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.
- 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

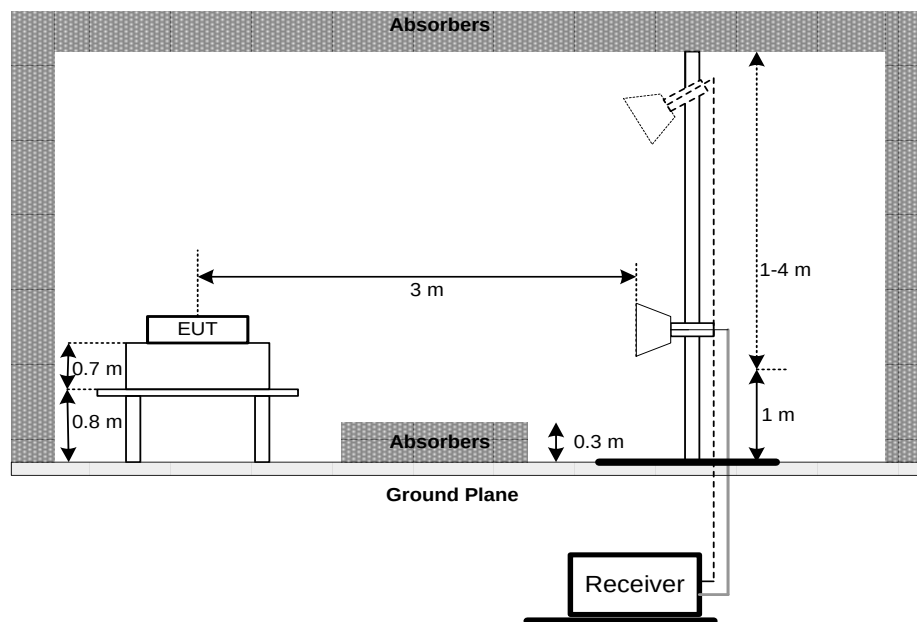
No deviation

4.2.4 TEST SETUP

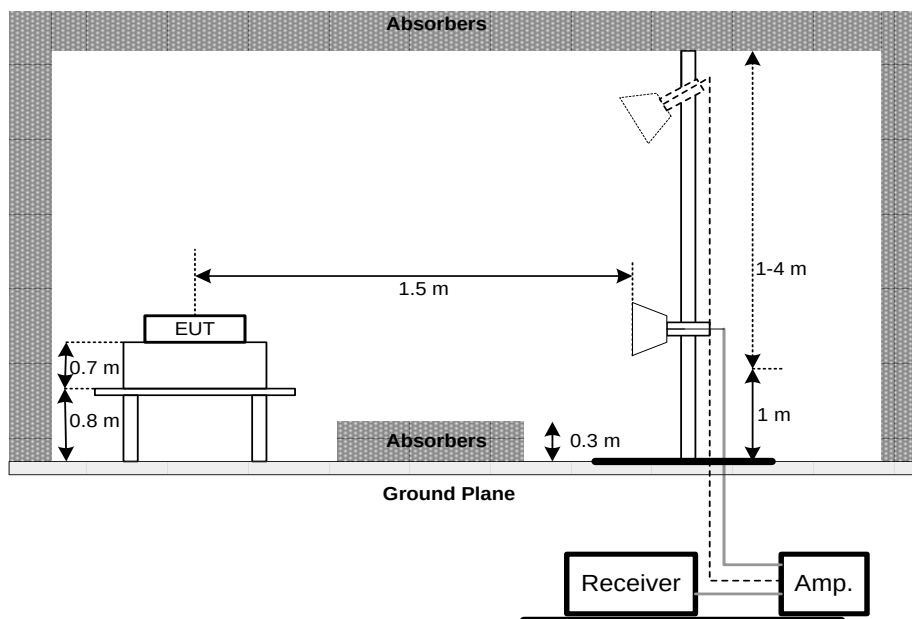
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



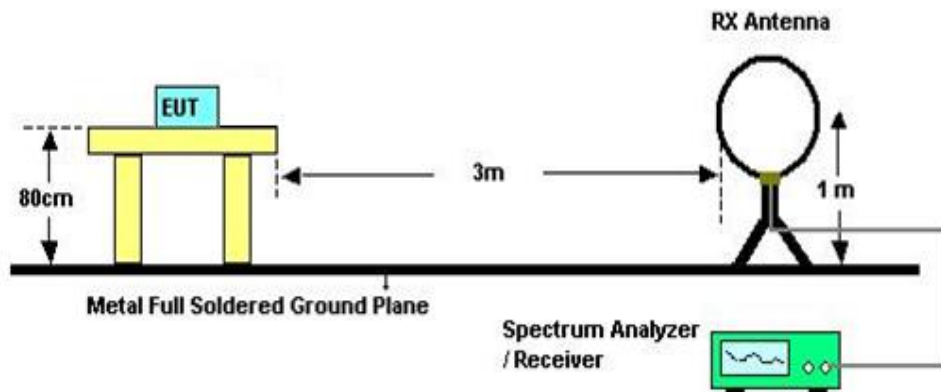
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz
Band edge



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 Appendix 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 1000MHZ)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix 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

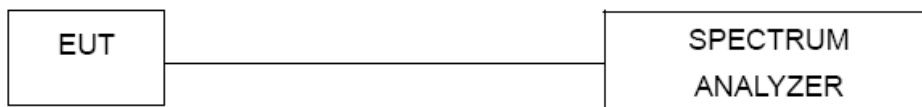
5.1.1 TEST PROCEDURE

- 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=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 Appendix 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

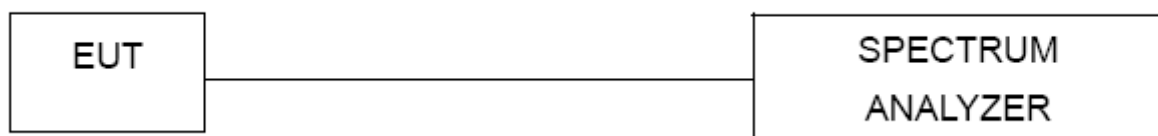
6.1.1 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- 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.
- 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.
- 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 Appendix 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

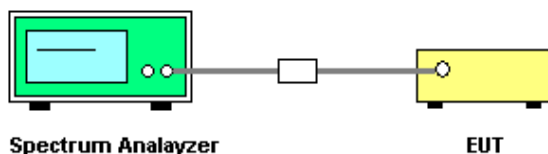
7.1.1 TEST PROCEDURE

- The EUT must have its hopping function enabled
- 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 Appendix 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

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- 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 Appendix 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

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- 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 Appendix 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

- 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=100KHz, Sweep time = Auto.
- 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 Appendix 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. 26, 2018
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 20, 2017

Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018
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	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 06, 2017

Radiated Emission Measurement - Above 1GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018
5	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017
6	Antenna	EM	EM-6876-1	230	Jul. 07, 2018
7	Controller	CT	SC100	N/A	N/A
8	Controller	MF	MF-7802	MF780208416	N/A
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

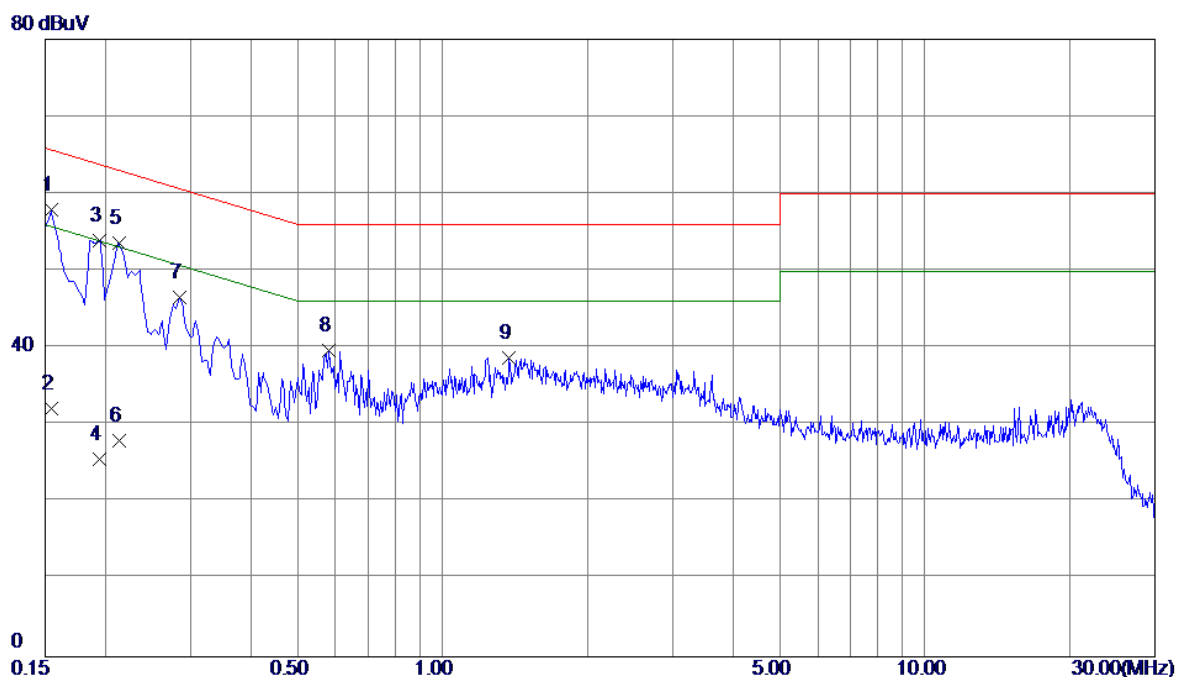
Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017

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

APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode_Adapter: HUNTKEY

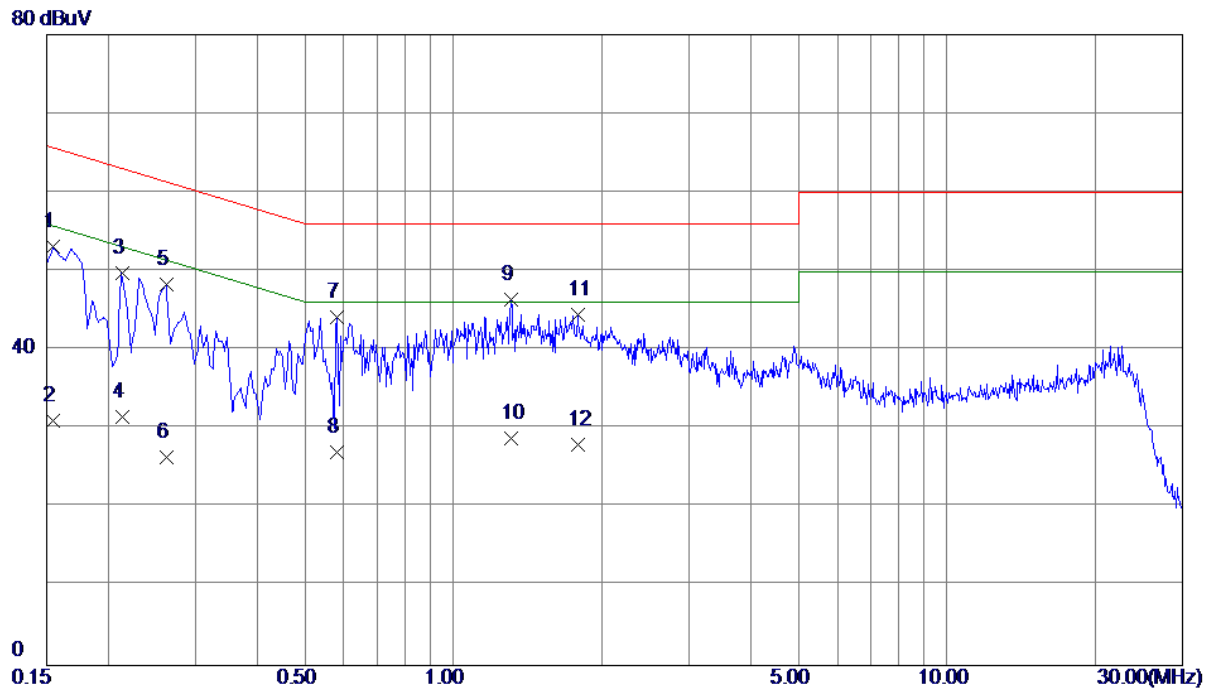
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	48.11	9.79	57.90	65.75	-7.85	Peak	
2	0.1545	22.40	9.79	32.19	55.75	-23.56	AVG	
3	0.1949	44.15	9.76	53.91	63.83	-9.92	Peak	
4	0.1949	15.90	9.76	25.66	53.83	-28.17	AVG	
5	0.2130	43.85	9.76	53.61	63.09	-9.48	Peak	
6	0.2130	18.20	9.76	27.96	53.09	-25.13	AVG	
7	0.2850	36.87	9.76	46.63	60.67	-14.04	Peak	
8	0.5820	29.95	9.81	39.76	56.00	-16.24	Peak	
9	1.3740	28.77	9.89	38.66	56.00	-17.34	Peak	

Test Mode: TX Mode_Adapter: HUNTKEY

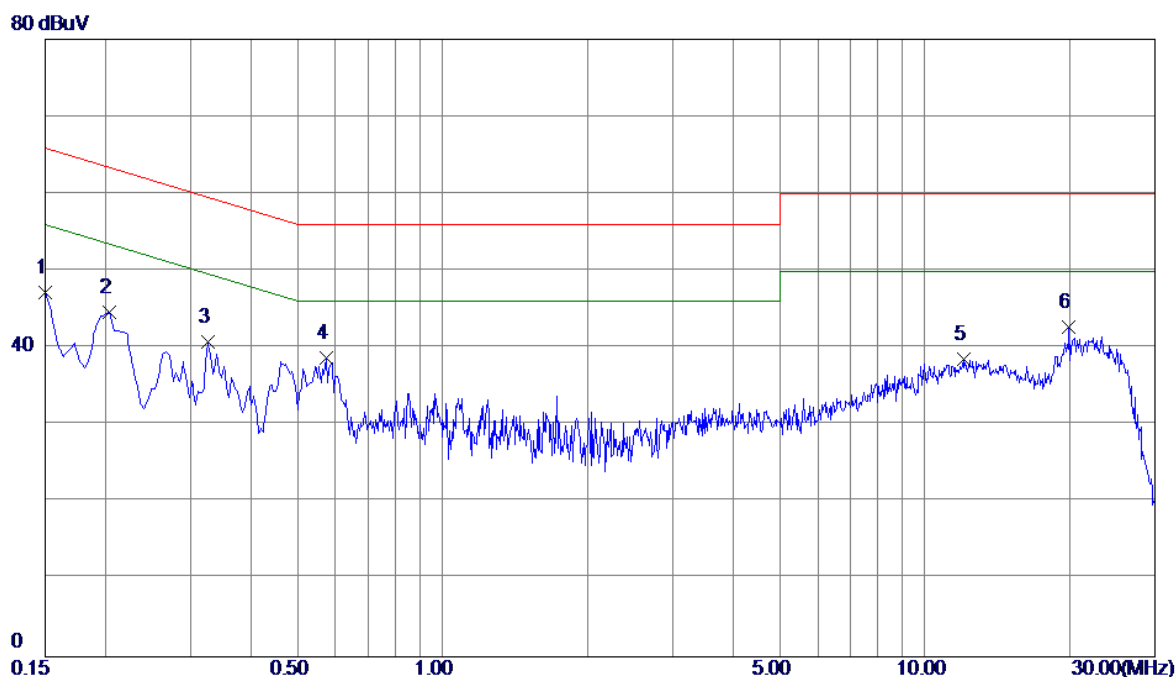
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	43.45	9.68	53.13	65.75	-12.62	Peak	
2	0.1545	21.40	9.68	31.08	55.75	-24.67	AVG	
3	0.2130	40.00	9.69	49.69	63.09	-13.40	Peak	
4	0.2130	21.79	9.69	31.48	53.09	-21.61	AVG	
5	0.2625	38.65	9.67	48.32	61.35	-13.03	Peak	
6	0.2625	16.70	9.67	26.37	51.35	-24.98	AVG	
7	0.5820	34.52	9.71	44.23	56.00	-11.77	Peak	
8	0.5820	17.30	9.71	27.01	46.00	-18.99	AVG	
9 *	1.3065	36.70	9.76	46.46	56.00	-9.54	Peak	
10	1.3065	19.10	9.76	28.86	46.00	-17.14	AVG	
11	1.7880	34.63	9.82	44.45	56.00	-11.55	Peak	
12	1.7880	18.21	9.82	28.03	46.00	-17.97	AVG	

Test Mode: TX Mode_Adapter: BYD

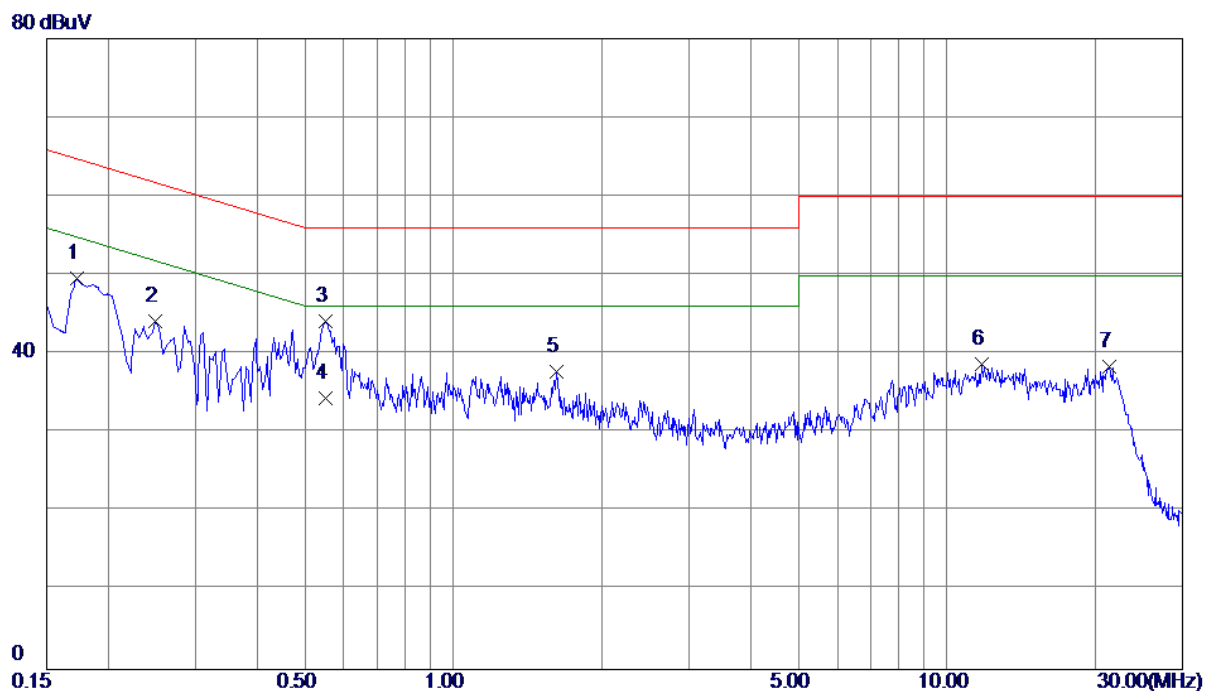
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	37.40	9.79	47.19	66.00	-18.81	Peak	
2	0.2040	34.88	9.76	44.64	63.45	-18.81	Peak	
3	0.3255	30.96	9.77	40.73	59.57	-18.84	Peak	
4 *	0.5730	28.96	9.81	38.77	56.00	-17.23	Peak	
5	12.0570	28.17	10.44	38.61	60.00	-21.39	Peak	
6	19.8645	32.12	10.65	42.77	60.00	-17.23	Peak	

Test Mode: TX Mode_Adapter: BYD

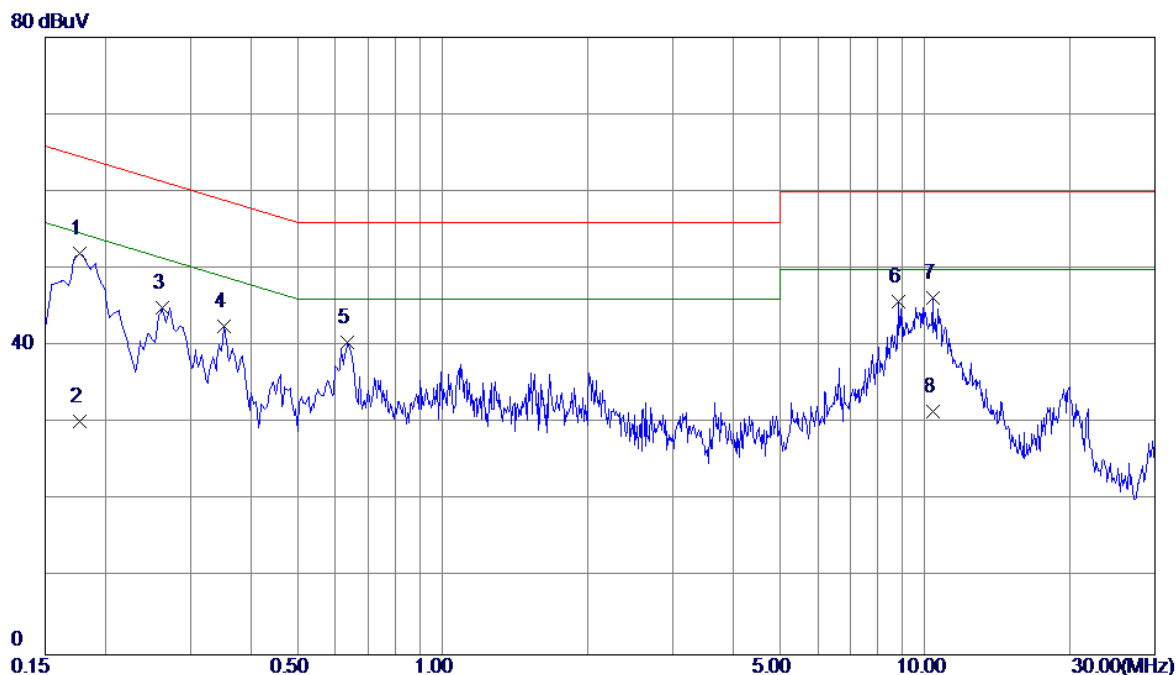
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1725	39.90	9.68	49.58	64.84	-15.26	Peak	
2	0.2490	34.45	9.67	44.12	61.79	-17.67	Peak	
3	0.5505	34.46	9.70	44.16	56.00	-11.84	Peak	
4 *	0.5505	24.71	9.70	34.41	46.00	-11.59	AVG	
5	1.6215	28.02	9.80	37.82	56.00	-18.18	Peak	
6	11.7555	28.26	10.40	38.66	60.00	-21.34	Peak	
7	21.3090	27.60	10.80	38.40	60.00	-21.60	Peak	

Test Mode: TX Mode_Adapter: PHITEK

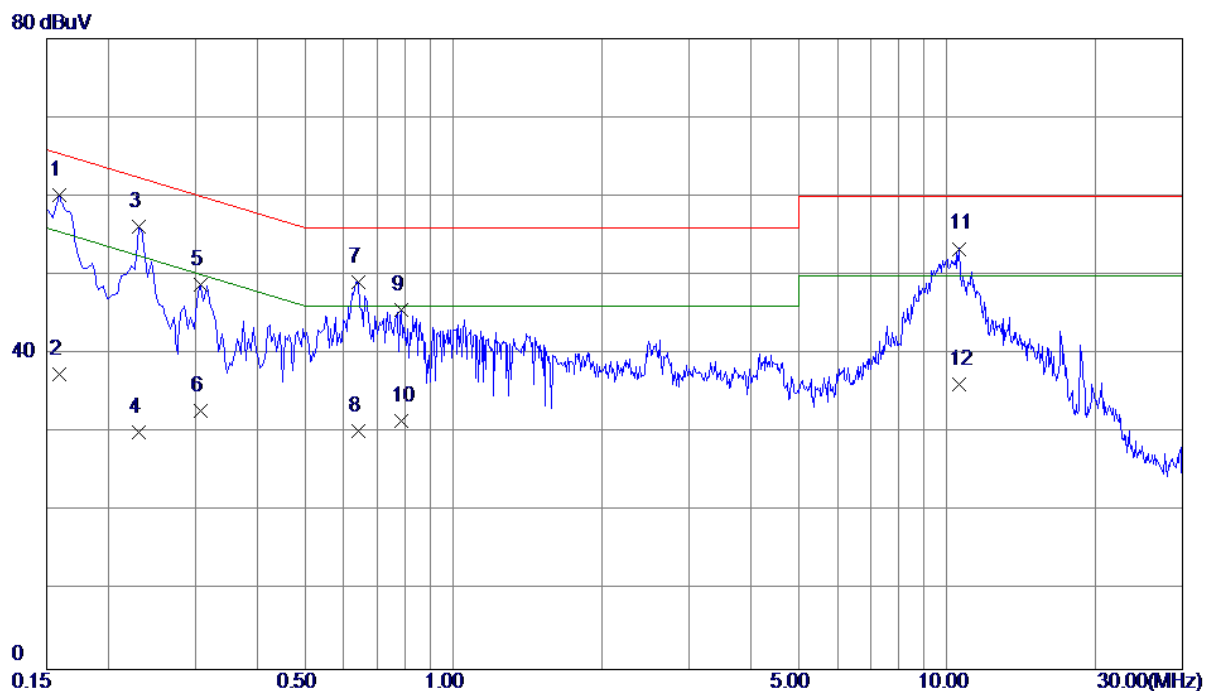
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1770	42.23	9.78	52.01	64.63	-12.62	Peak	
2	0.1770	20.40	9.78	30.18	54.63	-24.45	AVG	
3	0.2625	35.18	9.76	44.94	61.35	-16.41	Peak	
4	0.3525	32.70	9.79	42.49	58.90	-16.41	Peak	
5	0.6360	30.64	9.81	40.45	56.00	-15.55	Peak	
6	8.8170	35.52	10.26	45.78	60.00	-14.22	Peak	
7	10.3920	35.87	10.34	46.21	60.00	-13.79	Peak	
8	10.3920	21.20	10.34	31.54	50.00	-18.46	AVG	

Test Mode: TX Mode_Adapter: PHITEK

Neutral

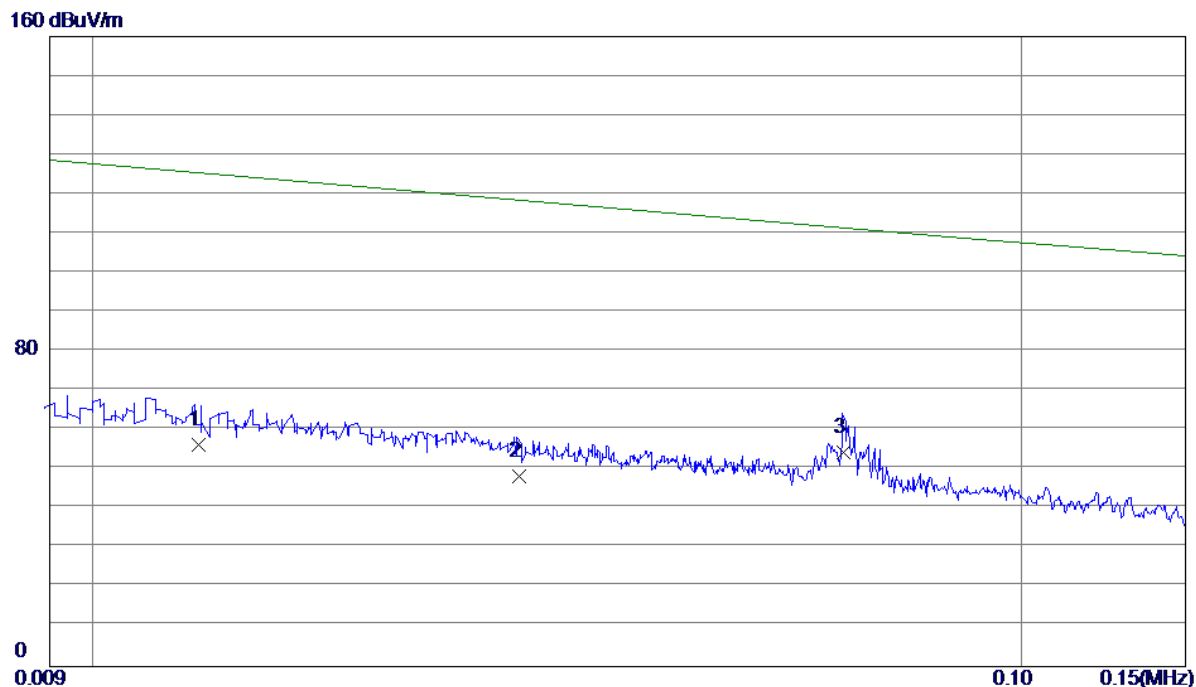


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1590	50.48	9.68	60.16	65.52	-5.36	Peak	
2	0.1590	27.80	9.68	37.48	55.52	-18.04	AVG	
3	0.2310	46.53	9.68	56.21	62.41	-6.20	Peak	
4	0.2310	20.40	9.68	30.08	52.41	-22.33	AVG	
5	0.3075	39.19	9.68	48.87	60.04	-11.17	Peak	
6	0.3075	23.12	9.68	32.80	50.04	-17.24	AVG	
7	0.6405	39.38	9.71	49.09	56.00	-6.91	Peak	
8	0.6405	20.50	9.71	30.21	46.00	-15.79	AVG	
9	0.7845	35.90	9.72	45.62	56.00	-10.38	Peak	
10	0.7845	21.80	9.72	31.52	46.00	-14.48	AVG	
11	10.6125	43.05	10.31	53.36	60.00	-6.64	Peak	
12	10.6125	25.90	10.31	36.21	50.00	-13.79	AVG	

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

Test Mode: TX Mode_Adapter: HUNTKEY

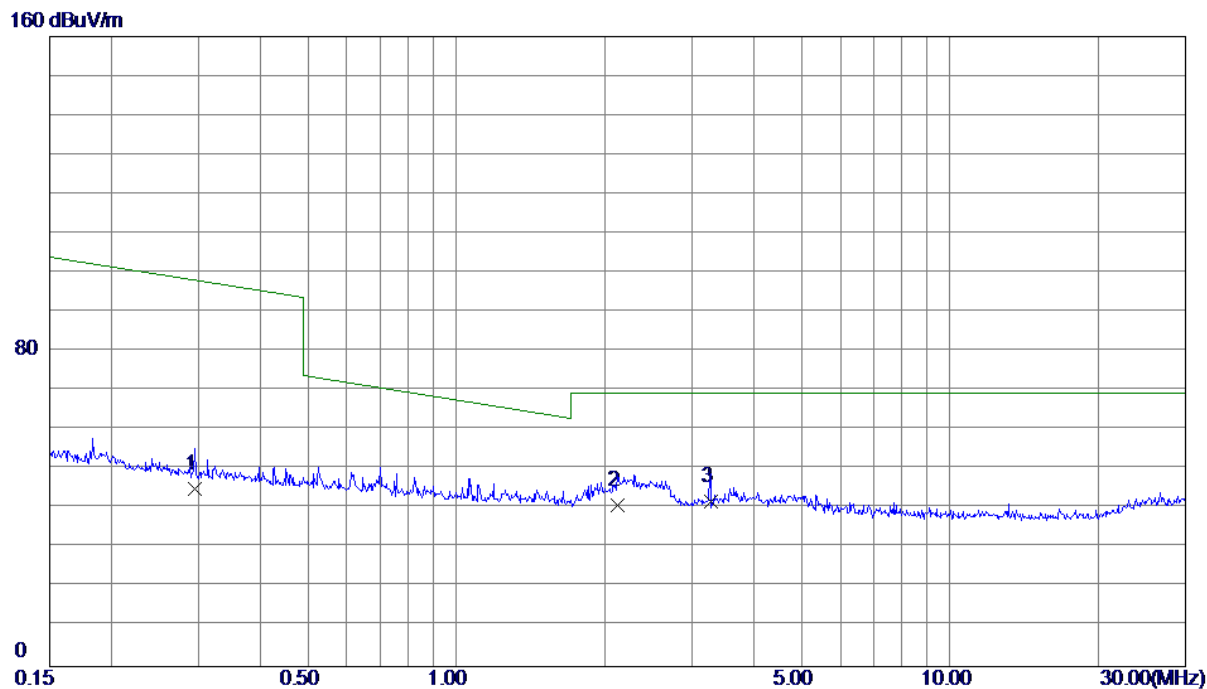
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0130	35.88	20.53	56.41	127.51	-71.10	AVG	
2	0.0288	28.97	19.36	48.33	123.61	-75.28	AVG	
3 *	0.0643	35.88	18.44	54.32	114.84	-60.52	AVG	

Test Mode: TX Mode_Adapter: HUNTKEY

Ant 0°

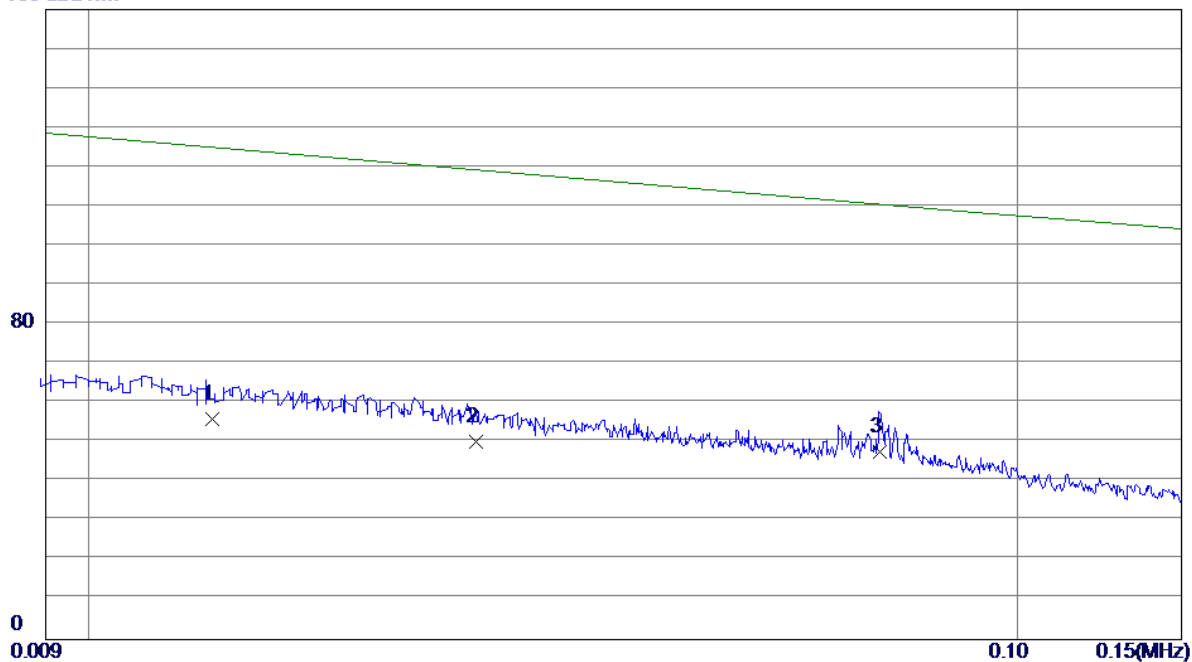


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2955	28.57	16.62	45.19	100.44	-55.25	AVG	
2	2.1213	25.50	15.48	40.98	69.54	-28.56	QP	
3 *	3.2756	26.68	15.15	41.83	69.54	-27.71	QP	

Test Mode: TX Mode_Adapter: HUNTKEY

Ant 90°

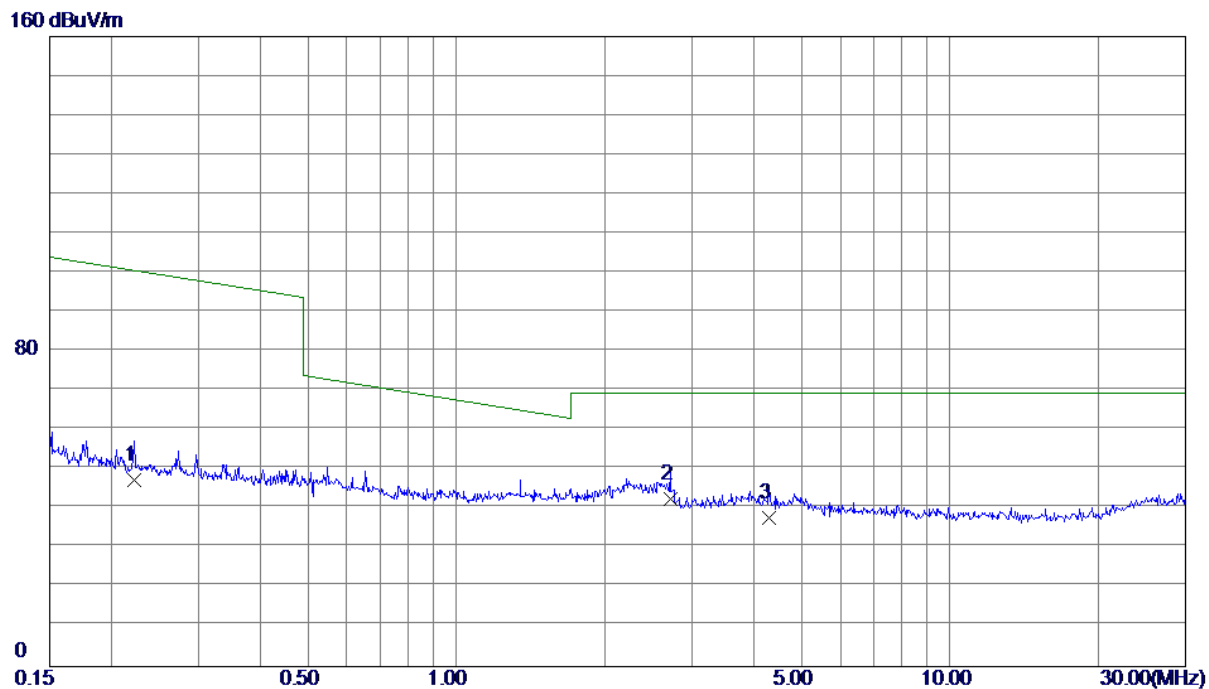
160 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0136	35.47	20.45	55.92	127.36	-71.44	AVG	
2	0.0261	30.85	19.44	50.29	124.27	-73.98	AVG	
3 *	0.0711	29.49	18.30	47.79	113.16	-65.37	AVG	

Test Mode: TX Mode_Adapter: HUNTKEY

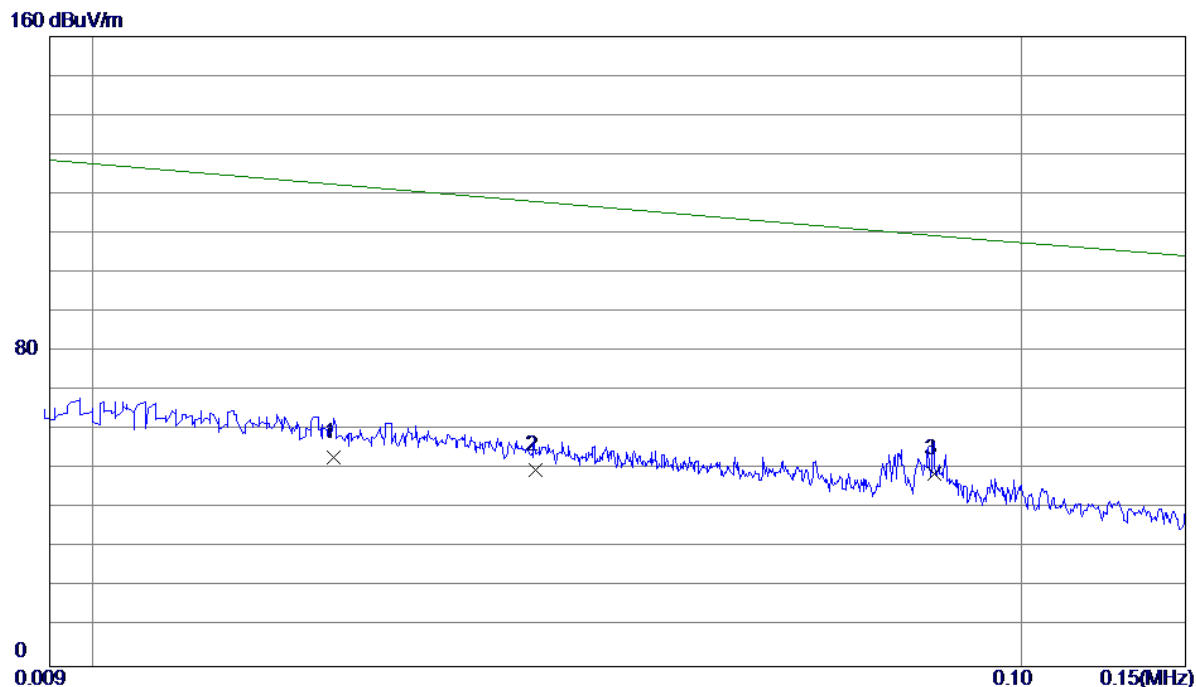
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2220	30.49	16.74	47.23	102.95	-55.72	AVG	
2 *	2.7212	27.13	15.31	42.44	69.54	-27.10	QP	
3	4.2918	22.89	14.78	37.67	69.54	-31.87	QP	

Test Mode: TX Mode_Adapter: BYD

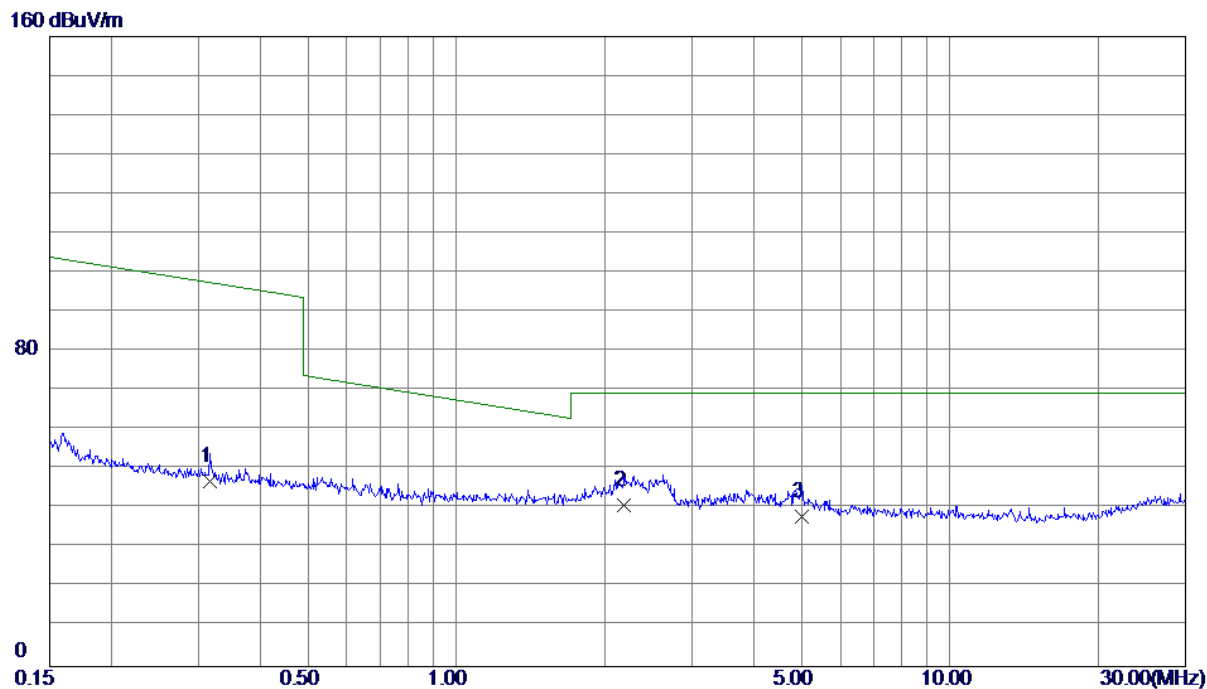
Ant 0°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0182	33.22	19.85	53.07	126.22	-73.15	AVG	
2	0.0300	30.49	19.32	49.81	123.31	-73.50	AVG	
3 *	0.0805	30.75	18.09	48.84	110.84	-62.00	AVG	

Test Mode: TX Mode_Adapter: BYD

Ant 0°

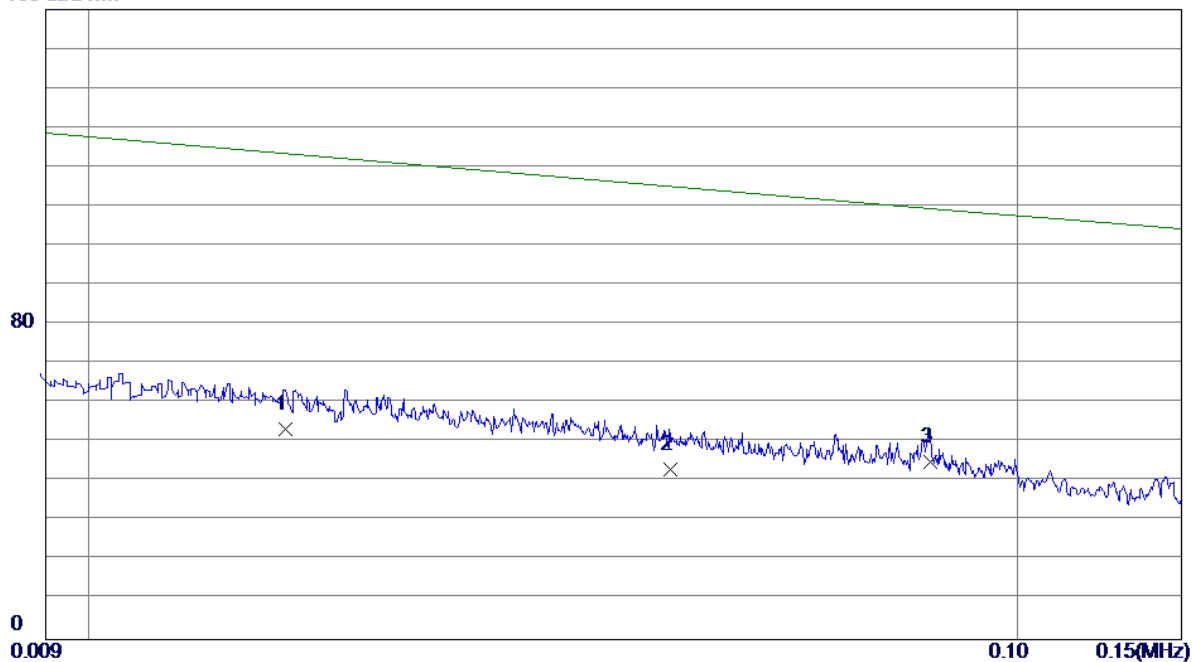


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.3166	30.36	16.61	46.97	99.72	-52.75	AVG	
2 *	2.1898	25.51	15.46	40.97	69.54	-28.57	QP	
3	5.0046	23.68	14.37	38.05	69.54	-31.49	QP	

Test Mode: TX Mode_Adapter: BYD

Ant 90°

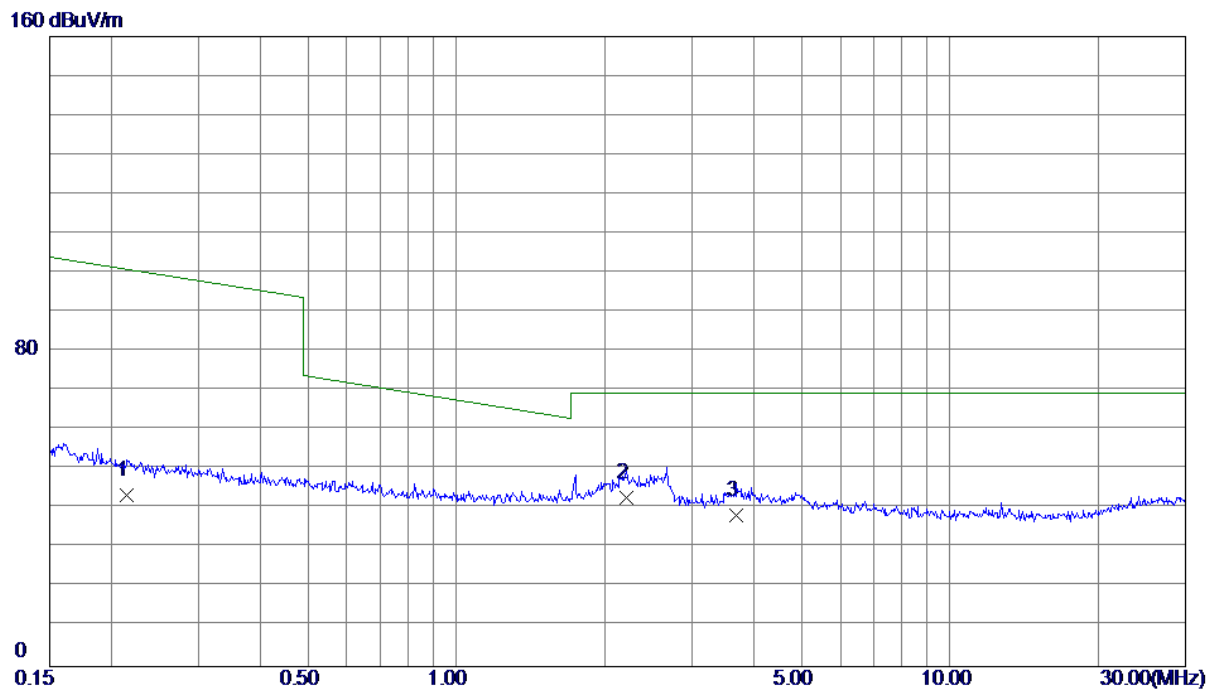
160 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0163	33.32	20.10	53.42	126.69	-73.27	AVG	
2	0.0423	24.36	18.95	43.31	120.27	-76.96	AVG	
3 *	0.0805	26.98	18.09	45.07	110.84	-65.77	AVG	

Test Mode: TX Mode_Adapter: BYD

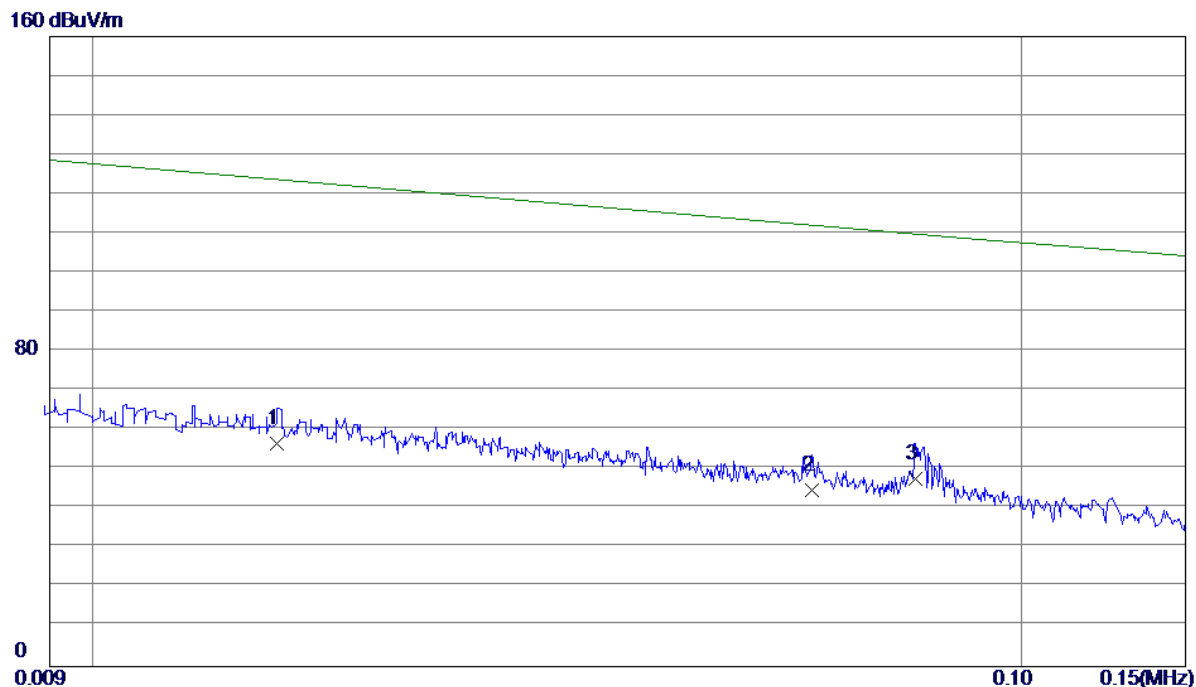
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2151	26.64	16.76	43.40	103.19	-59.79	AVG	
2 *	2.2132	27.34	15.45	42.79	69.54	-26.75	QP	
3	3.7001	23.31	15.03	38.34	69.54	-31.20	QP	

Test Mode: TX Mode_Adapter: PHITEK

Ant 0°

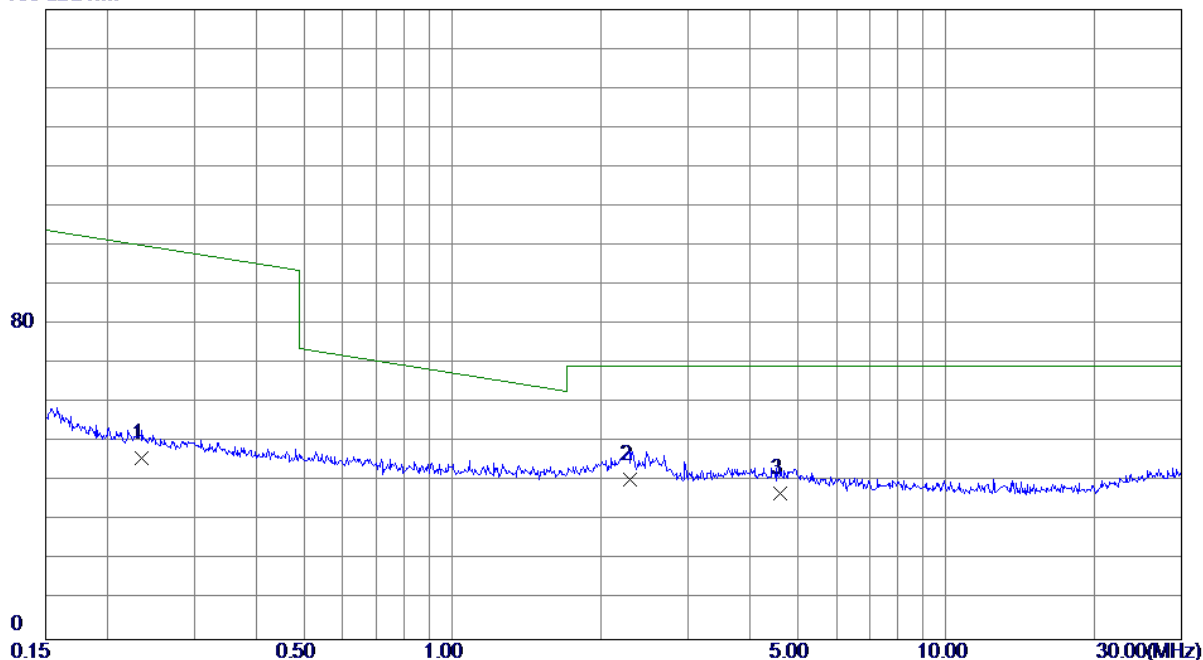


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0158	36.51	20.17	56.68	126.82	-70.14	AVG	
2	0.0594	26.33	18.54	44.87	116.05	-71.18	AVG	
3 *	0.0768	29.35	18.18	47.53	111.75	-64.22	AVG	

Test Mode: TX Mode_Adapter: PHITEK

Ant 0°

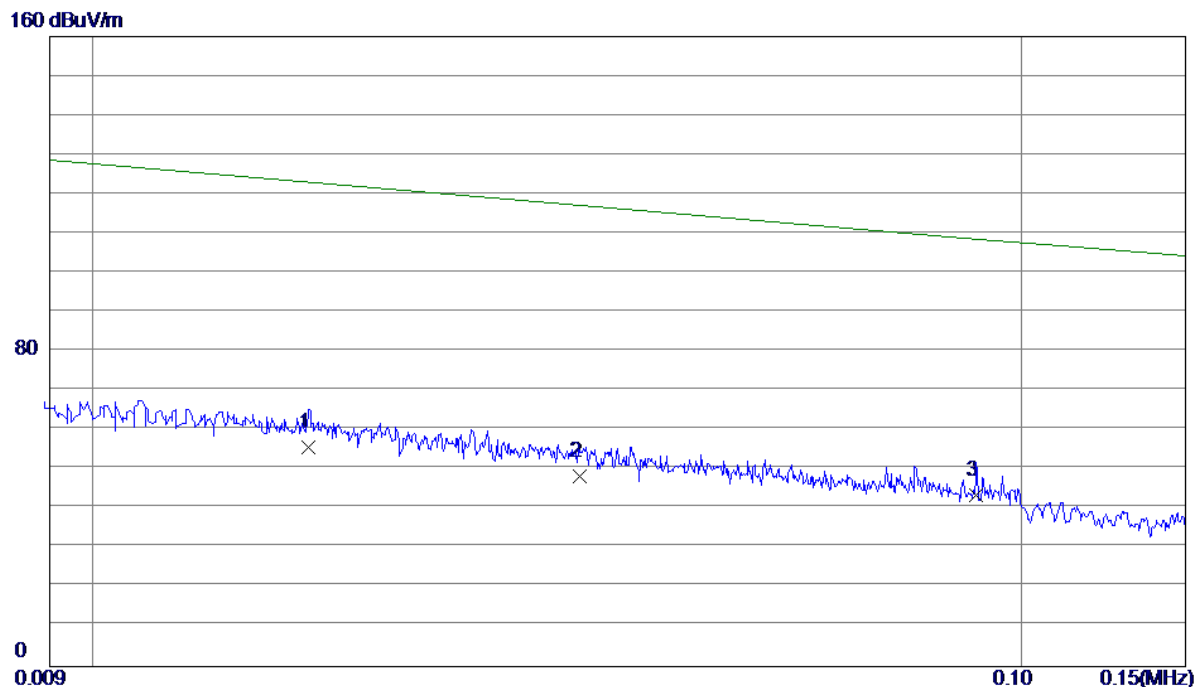
160 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2353	29.45	16.70	46.15	102.50	-56.35	AVG	
2 *	2.2847	25.31	15.43	40.74	69.54	-28.80	QP	
3	4.6223	22.41	14.59	37.00	69.54	-32.54	QP	

Test Mode: TX Mode_Adapter: PHITEK

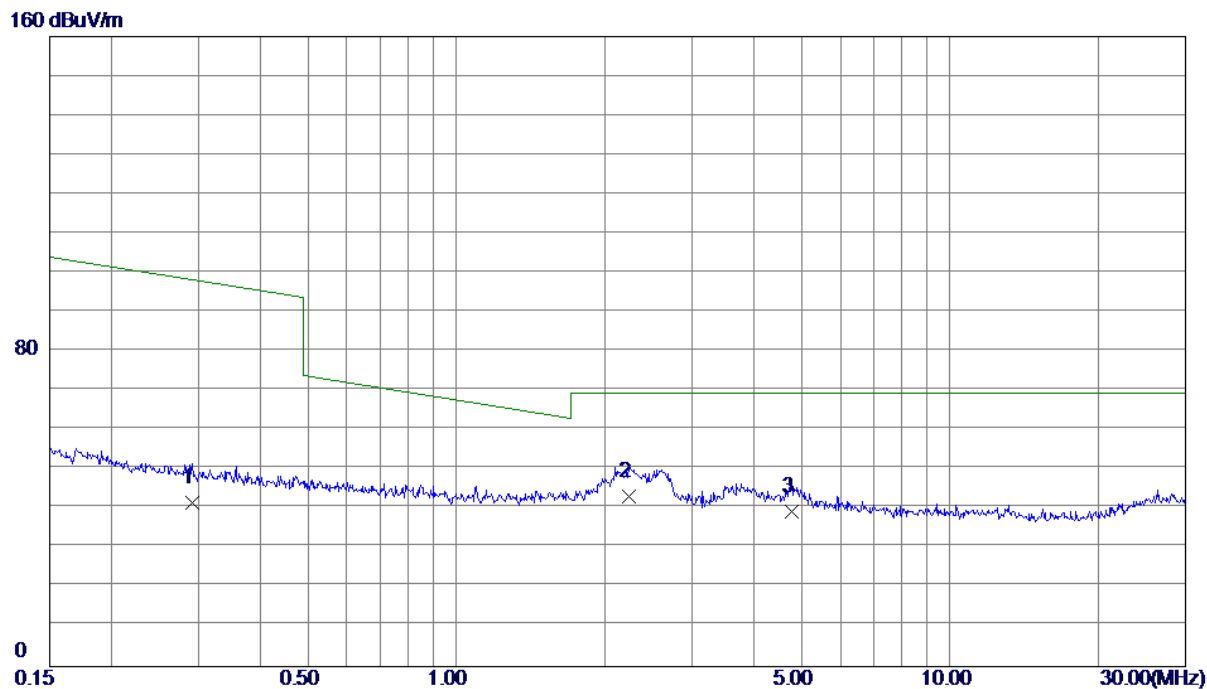
Ant 90°



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0171	35.64	20.00	55.64	126.50	-70.86	AVG	
2	0.0335	29.12	19.22	48.34	122.45	-74.11	AVG	
3 *	0.0894	25.68	17.88	43.56	108.64	-65.08	AVG	

Test Mode: TX Mode_Adapter: PHITEK

Ant 90°



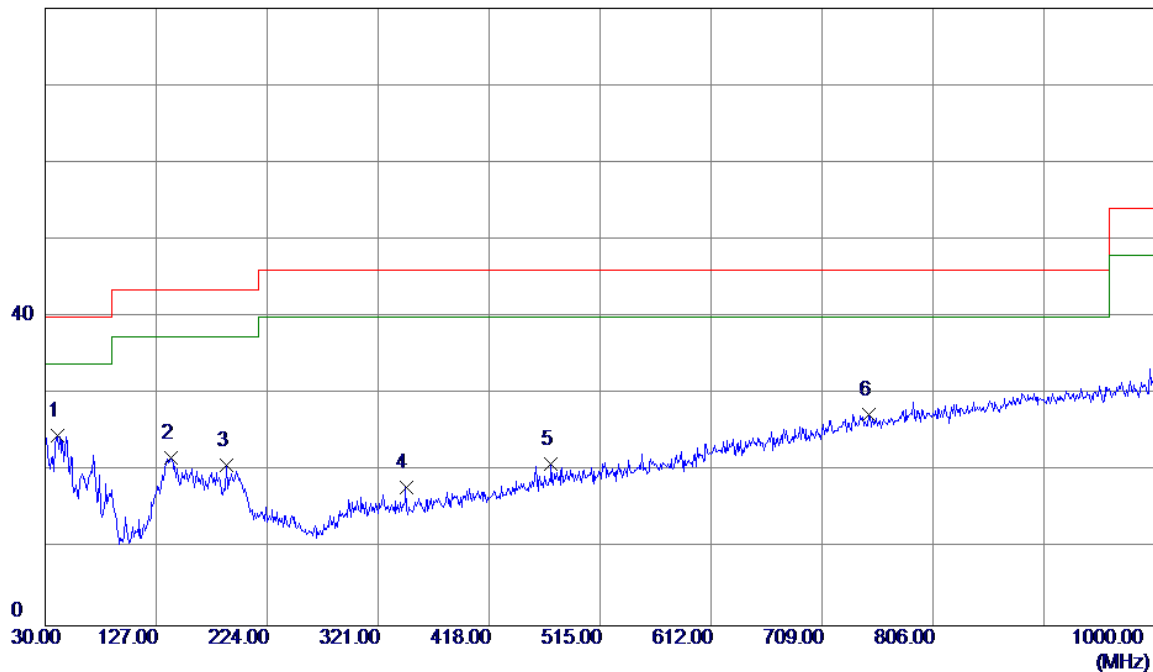
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2924	24.98	16.62	41.60	100.55	-58.95	AVG	
2 *	2.2367	27.68	15.44	43.12	69.54	-26.42	QP	
3	4.7716	24.96	14.50	39.46	69.54	-30.08	QP	

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

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: HUNTKEY

Vertical

80 dBuV/m

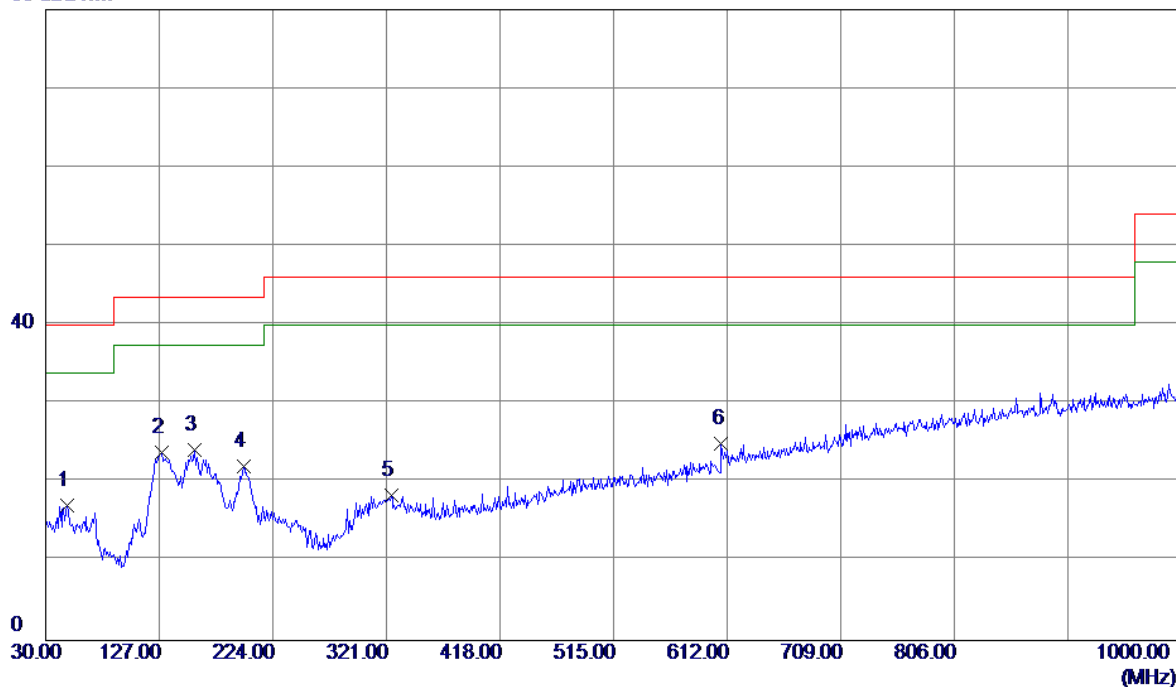


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	40.6699	38.47	-13.85	24.62	40.00	-15.38	Peak	
2	139.6100	35.95	-14.24	21.71	43.50	-21.79	Peak	
3	188.1100	33.53	-12.69	20.84	43.50	-22.66	Peak	
4	345.2500	29.95	-12.04	17.91	46.00	-28.09	Peak	
5	472.3200	30.35	-9.40	20.95	46.00	-25.05	Peak	
6	749.7400	29.88	-2.45	27.43	46.00	-18.57	Peak	

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: HUNTKEY

Horizontal

80 dBuV/m

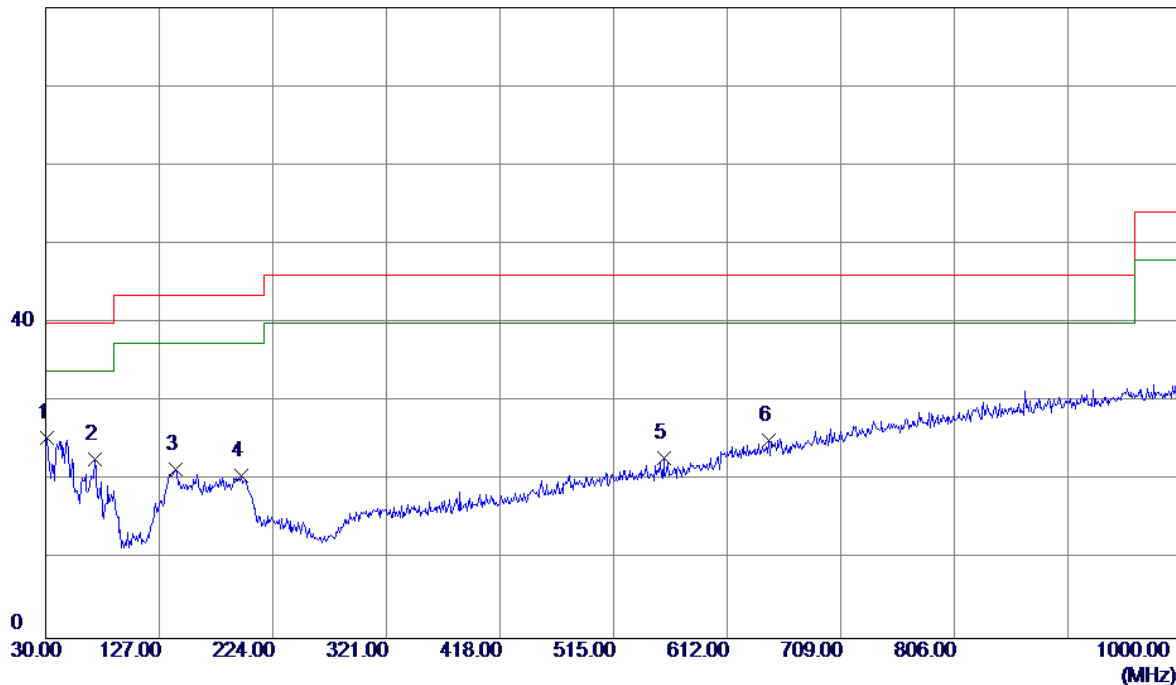


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	48.4300	30.36	-13.28	17.08	40.00	-22.92	Peak	
2	128.9400	38.60	-14.78	23.82	43.50	-19.68	Peak	
3 *	157.0700	37.26	-13.10	24.16	43.50	-19.34	Peak	
4	198.7800	35.69	-13.64	22.05	43.50	-21.45	Peak	
5	324.8800	30.82	-12.39	18.43	46.00	-27.57	Peak	
6	607.1500	31.17	-6.28	24.89	46.00	-21.11	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps _Adapter: HUNTKEY

Vertical

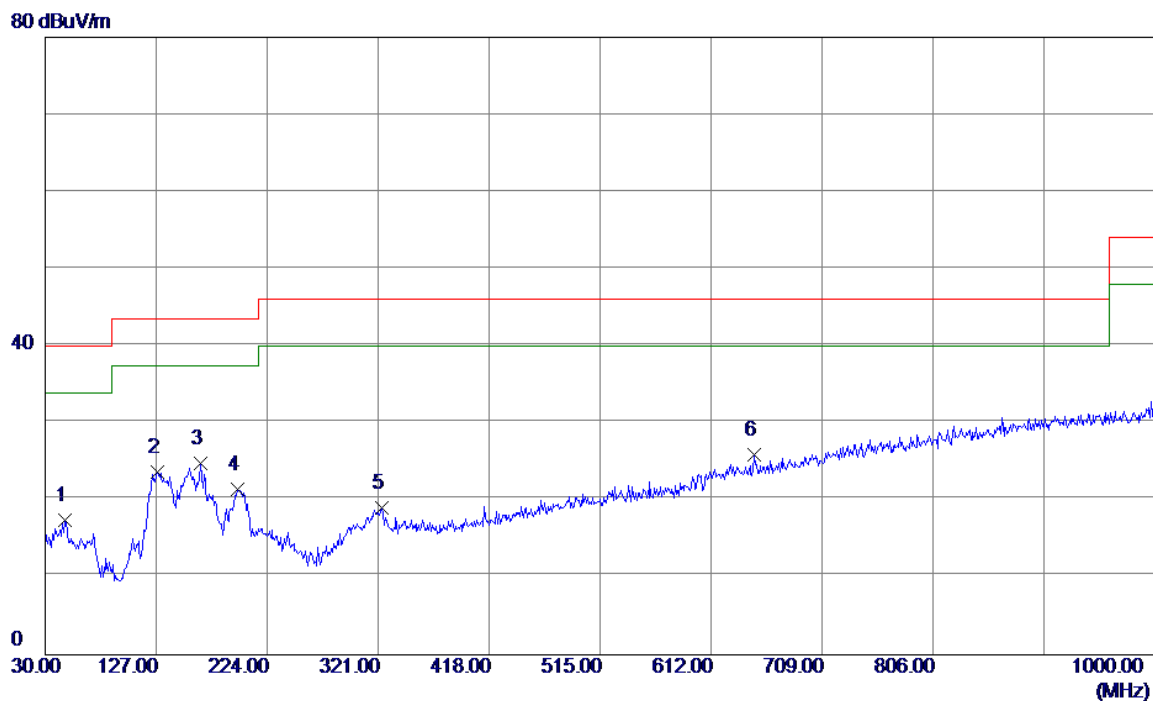
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	30.9700	40.51	-15.14	25.37	40.00	-14.63	Peak	
2	71.7100	39.41	-16.71	22.70	40.00	-17.30	Peak	
3	140.5800	35.64	-14.18	21.46	43.50	-22.04	Peak	
4	196.8400	34.03	-13.46	20.57	43.50	-22.93	Peak	
5	557.6800	30.35	-7.52	22.83	46.00	-23.17	Peak	
6	647.8900	30.62	-5.51	25.11	46.00	-20.89	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps _Adapter: HUNTKEY

Horizontal

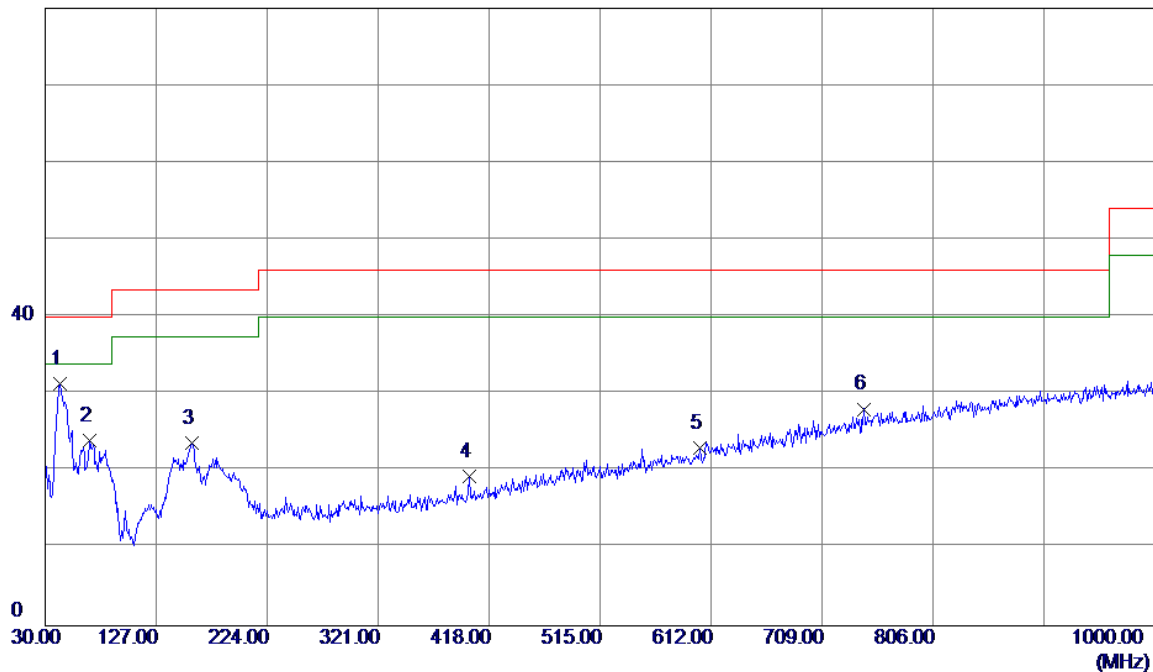


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	47.4600	30.58	-13.12	17.46	40.00	-22.54	Peak	
2	127.9700	38.49	-14.85	23.64	43.50	-19.86	Peak	
3 *	165.8000	37.46	-12.58	24.88	43.50	-18.62	Peak	
4	197.8100	34.93	-13.55	21.38	43.50	-22.12	Peak	
5	323.9100	31.52	-12.41	19.11	46.00	-26.89	Peak	
6	649.8300	31.33	-5.48	25.85	46.00	-20.15	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: BYD

Vertical

80 dBuV/m

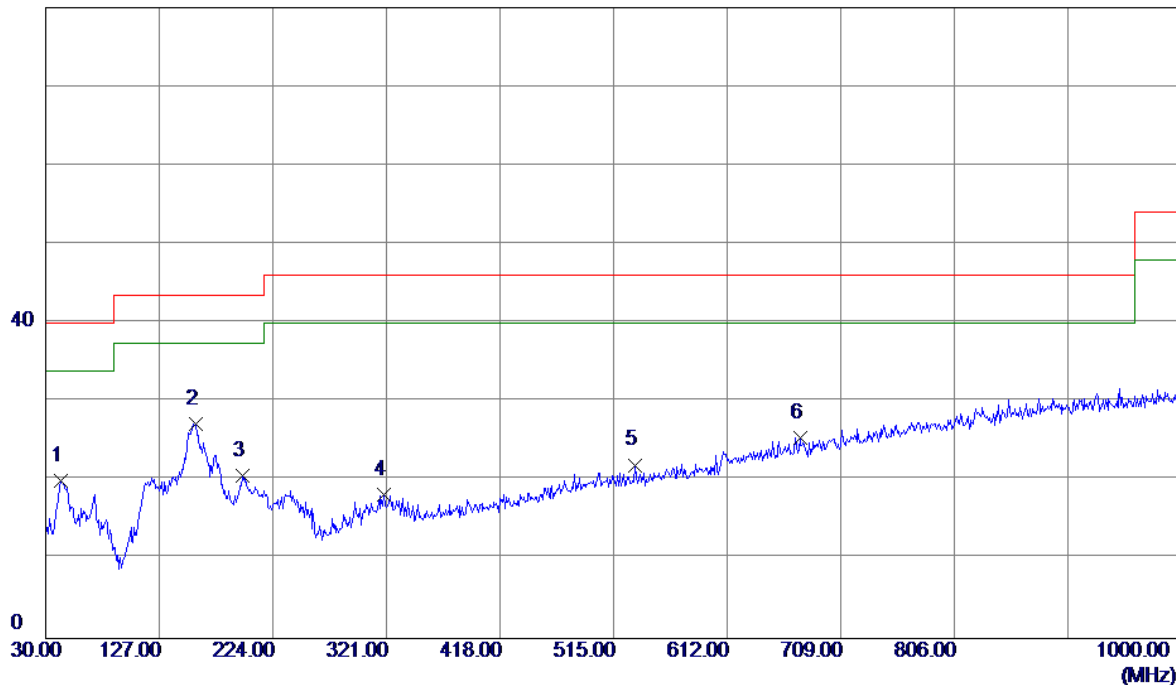


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	44.94	-13.60	31.34	40.00	-8.66	Peak	
2	68.8000	40.27	-16.20	24.07	40.00	-15.93	Peak	
3	158.0399	36.79	-13.05	23.74	43.50	-19.76	Peak	
4	400.5400	30.64	-11.34	19.30	46.00	-26.70	Peak	
5	602.3000	29.47	-6.38	23.09	46.00	-22.91	Peak	
6	745.8600	30.65	-2.57	28.08	46.00	-17.92	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: BYD

Horizontal

80 dBuV/m

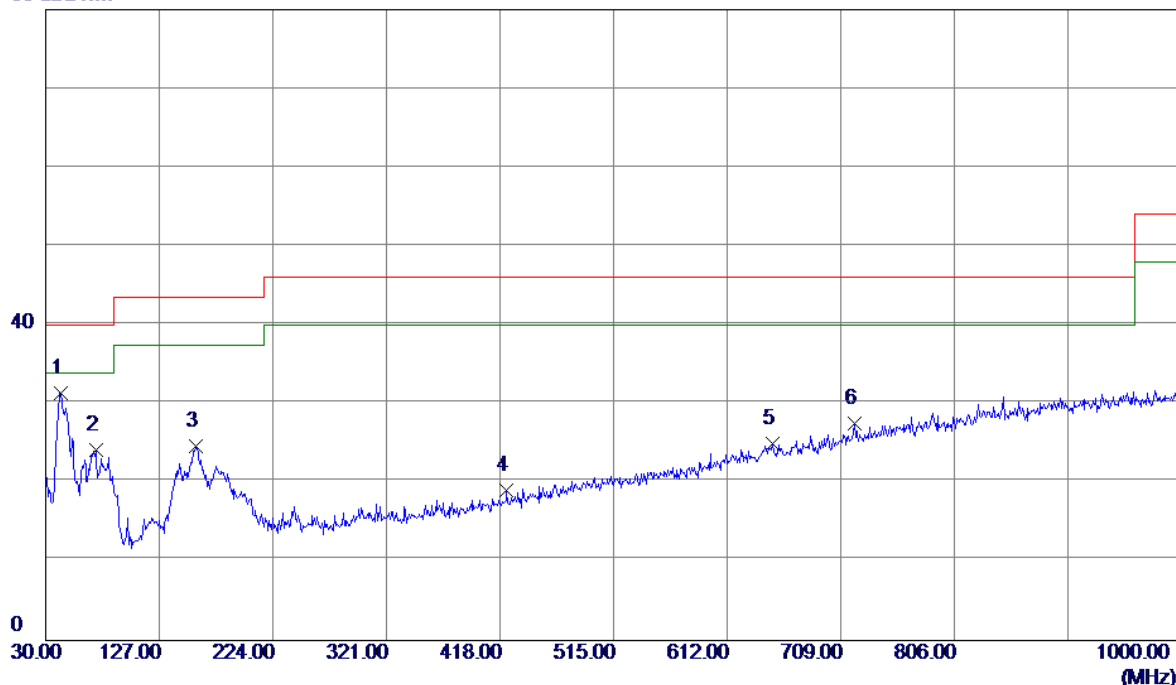


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	42.6100	33.58	-13.60	19.98	40.00	-20.02	Peak	
2 *	158.0399	40.21	-13.05	27.16	43.50	-16.34	Peak	
3	197.8100	34.16	-13.55	20.61	43.50	-22.89	Peak	
4	319.0600	30.68	-12.50	18.18	46.00	-27.82	Peak	
5	533.4300	30.05	-8.05	22.00	46.00	-24.00	Peak	
6	674.0800	30.21	-4.74	25.47	46.00	-20.53	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps_Adapter: BYD

Vertical

80 dBuV/m

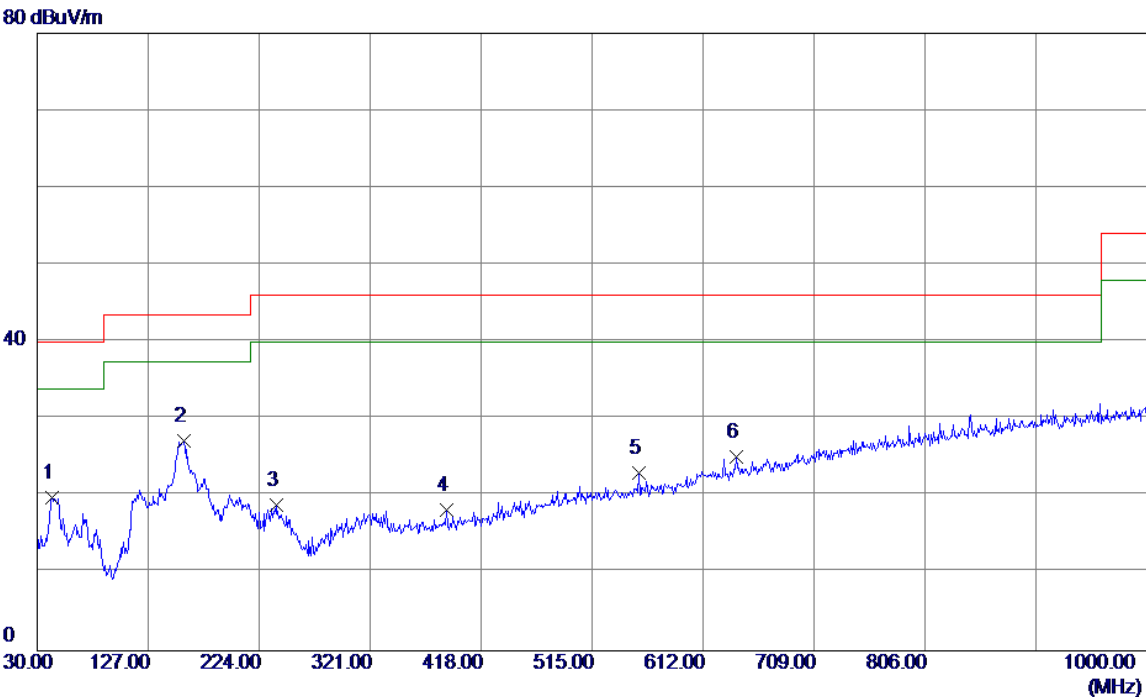


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	45.02	-13.60	31.42	40.00	-8.58	Peak	
2	72.6800	40.94	-16.82	24.12	40.00	-15.88	Peak	
3	158.0399	37.72	-13.05	24.67	43.50	-18.83	Peak	
4	423.8200	29.71	-10.68	19.03	46.00	-26.97	Peak	
5	650.8000	30.48	-5.45	25.03	46.00	-20.97	Peak	
6	720.6400	30.91	-3.32	27.59	46.00	-18.41	Peak	

Test Mode:

TX 2480MHz_CH78_1Mbps_Adapter: BYD

Horizontal

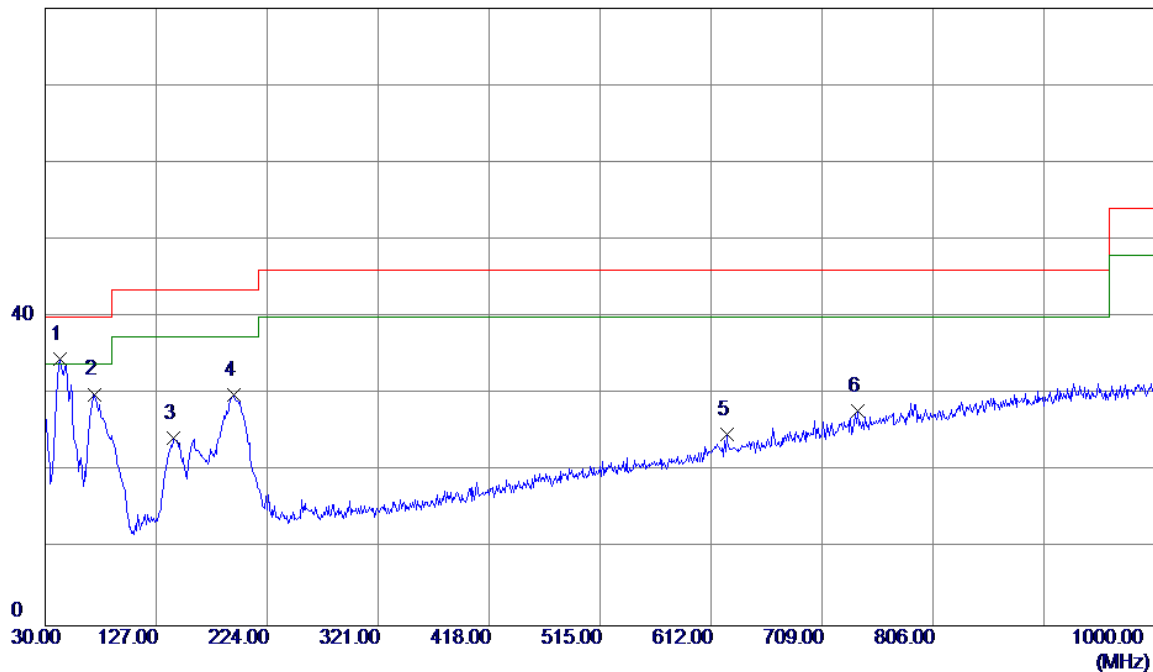


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	42.6100	33.47	-13.60	19.87	40.00	-20.13	Peak	
2 *	158.0399	40.22	-13.05	27.17	43.50	-16.33	Peak	
3	238.5500	33.26	-14.33	18.93	46.00	-27.07	Peak	
4	387.9300	29.67	-11.50	18.17	46.00	-27.83	Peak	
5	555.7400	30.60	-7.57	23.03	46.00	-22.97	Peak	
6	641.1000	30.83	-5.64	25.19	46.00	-20.81	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: PHITEK

Vertical

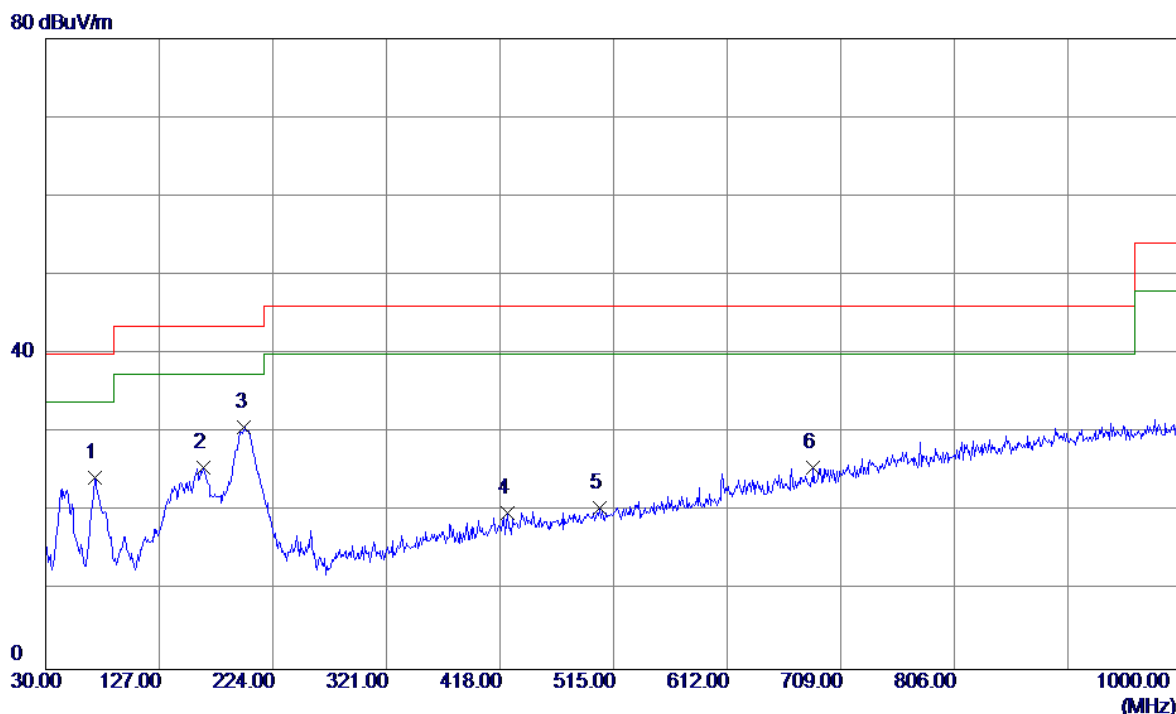
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	48.15	-13.60	34.55	40.00	-5.45	Peak	
2	72.6800	46.82	-16.82	30.00	40.00	-10.00	Peak	
3	142.5200	38.33	-14.04	24.29	43.50	-19.21	Peak	
4	194.9000	43.20	-13.29	29.91	43.50	-13.59	Peak	
5	625.5800	30.75	-5.94	24.81	46.00	-21.19	Peak	
6	740.0400	30.51	-2.74	27.77	46.00	-18.23	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps_Adapter: PHITEK

Horizontal

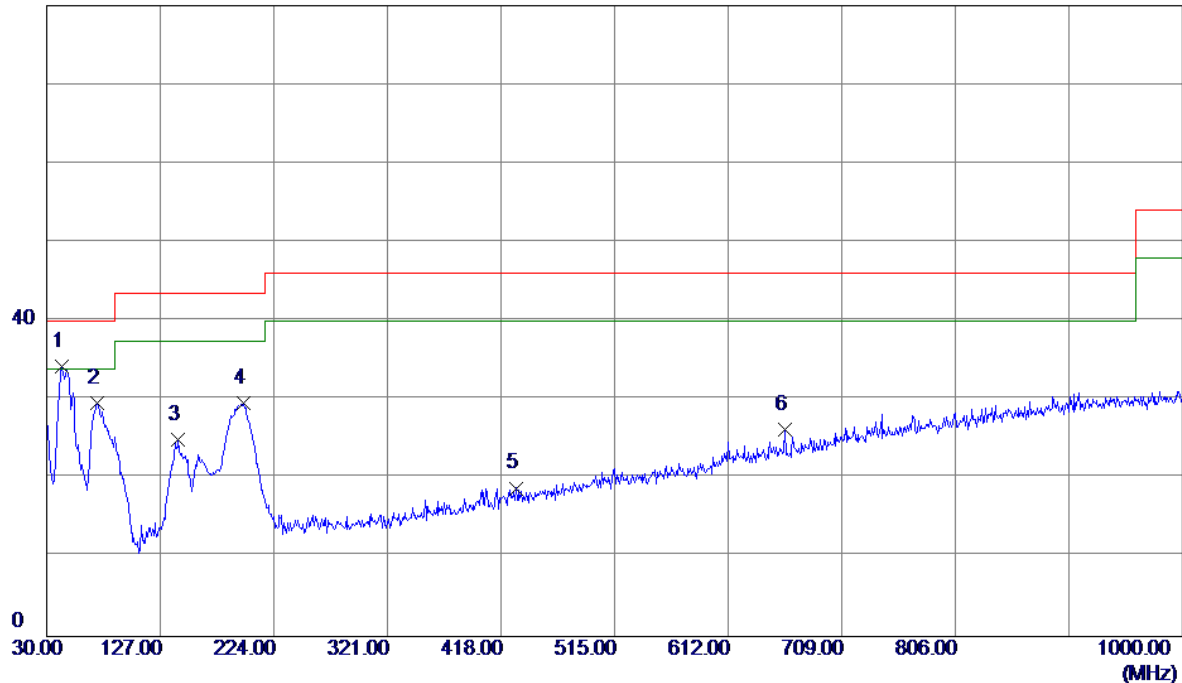


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	71.7100	41.03	-16.71	24.32	40.00	-15.68	Peak	
2	164.8300	38.22	-12.64	25.58	43.50	-17.92	Peak	
3 *	199.7500	44.52	-13.73	30.79	43.50	-12.71	Peak	
4	424.7900	30.47	-10.66	19.81	46.00	-26.19	Peak	
5	503.3600	29.20	-8.65	20.55	46.00	-25.45	Peak	
6	685.7199	29.97	-4.38	25.59	46.00	-20.41	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps_Adapter: PHITEK

Vertical

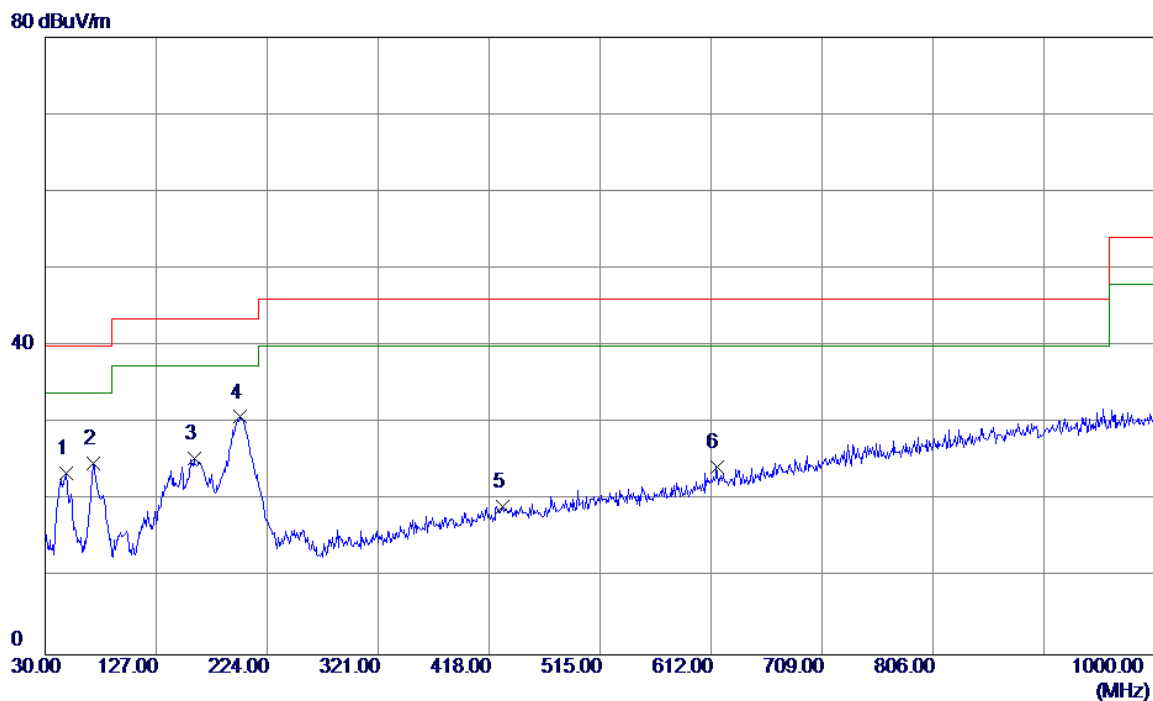
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	47.88	-13.60	34.28	40.00	-5.72	Peak	
2	72.6800	46.44	-16.82	29.62	40.00	-10.38	Peak	
3	142.5200	39.04	-14.04	25.00	43.50	-18.50	Peak	
4	197.8100	43.15	-13.55	29.60	43.50	-13.90	Peak	
5	430.6100	29.29	-10.49	18.80	46.00	-27.20	Peak	
6	660.5000	31.34	-5.15	26.19	46.00	-19.81	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps_Adapter: PHITEK

Horizontal

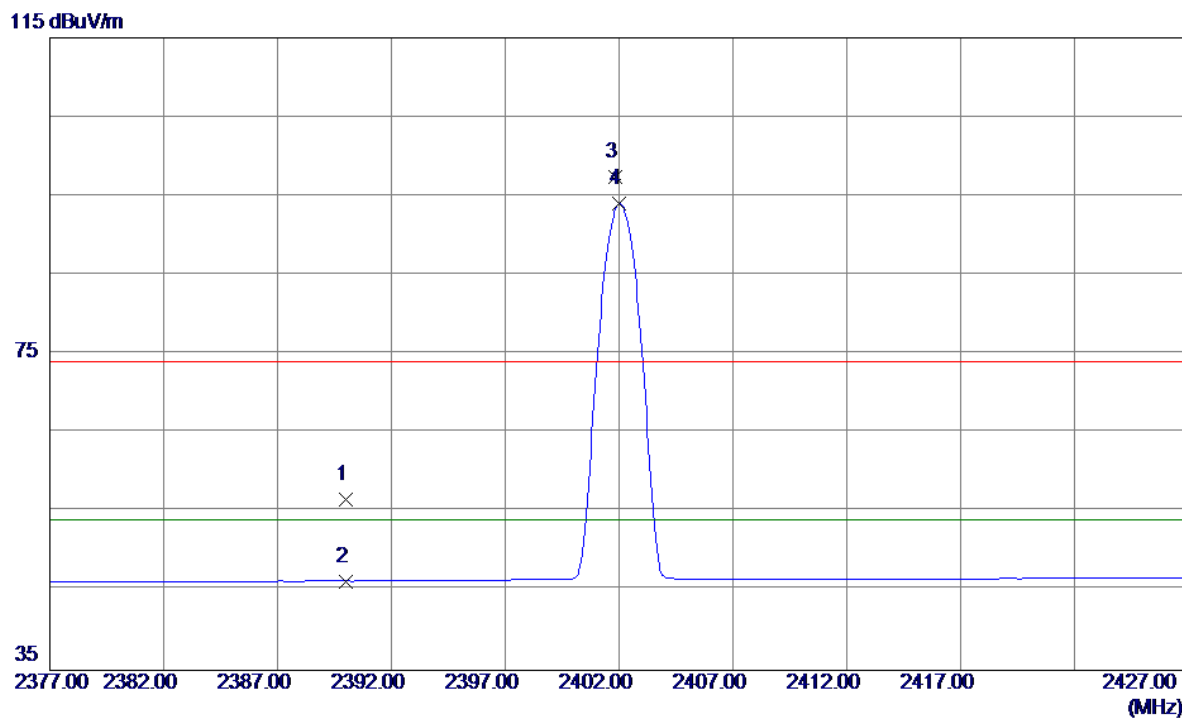


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	48.4300	36.79	-13.28	23.51	40.00	-16.49	Peak	
2	71.7100	41.46	-16.71	24.75	40.00	-15.25	Peak	
3	159.9800	38.30	-12.93	25.37	43.50	-18.13	Peak	
4 *	200.7200	44.57	-13.77	30.80	43.50	-12.70	Peak	
5	429.6400	29.76	-10.52	19.24	46.00	-26.76	Peak	
6	616.8500	30.38	-6.10	24.28	46.00	-21.72	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode :	TX 2402MHz _CH00_1Mbps
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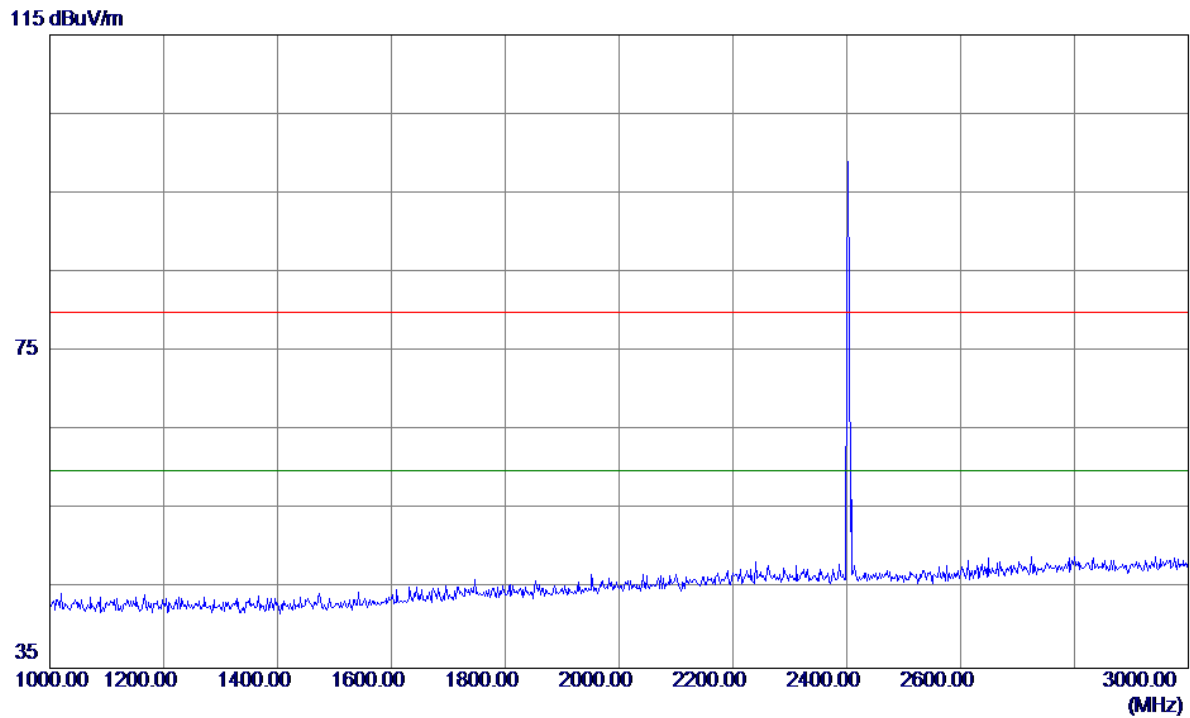
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.56	33.06	56.62	74.00	-17.38	Peak	
2	2390.0000	13.20	33.06	46.26	54.00	-7.74	AVG	
3	2401.8500	64.30	33.10	97.40	74.00	23.40	Peak	No Limit
4 *	2402.0000	60.88	33.10	93.98	54.00	39.98	AVG	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

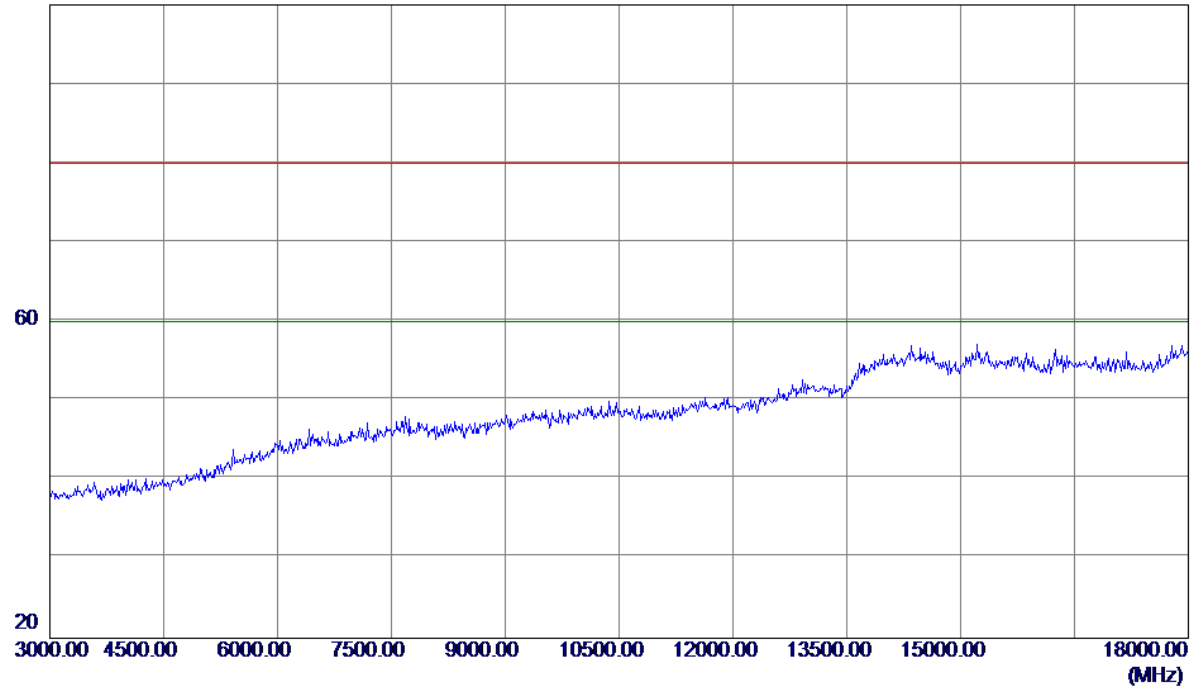


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

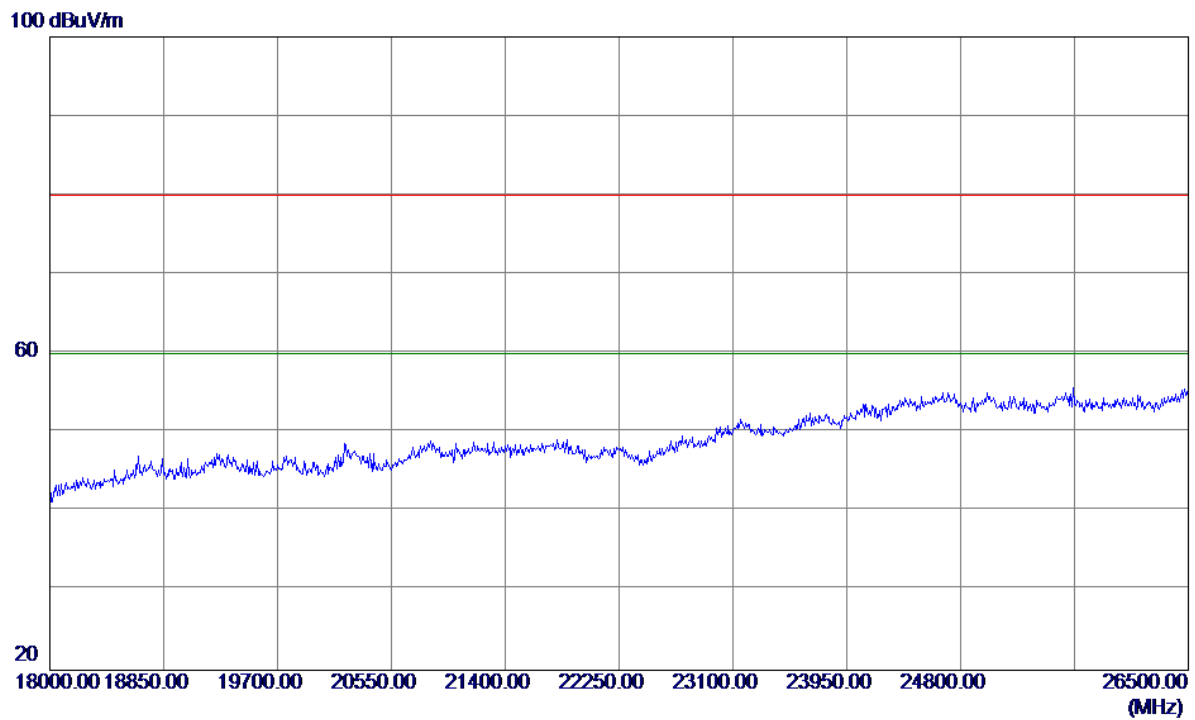
100 dBuV/m



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

Test Mode : TX 2402MHz _CH00_1Mbps

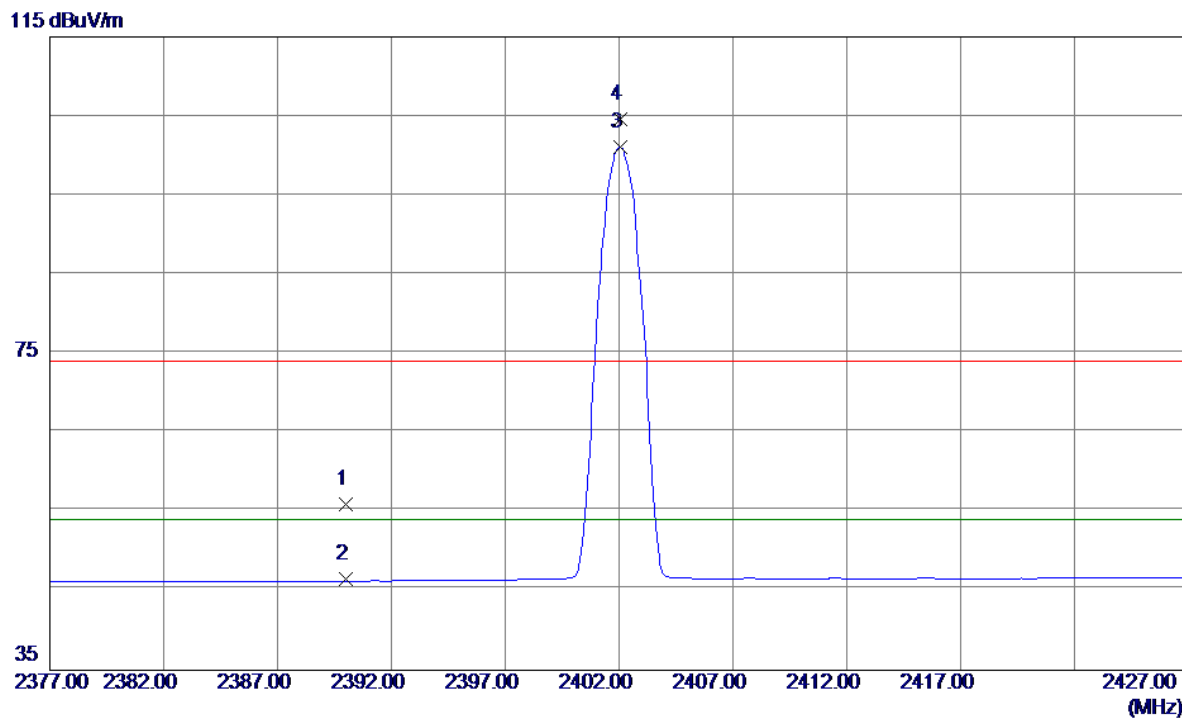
Vertical



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

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

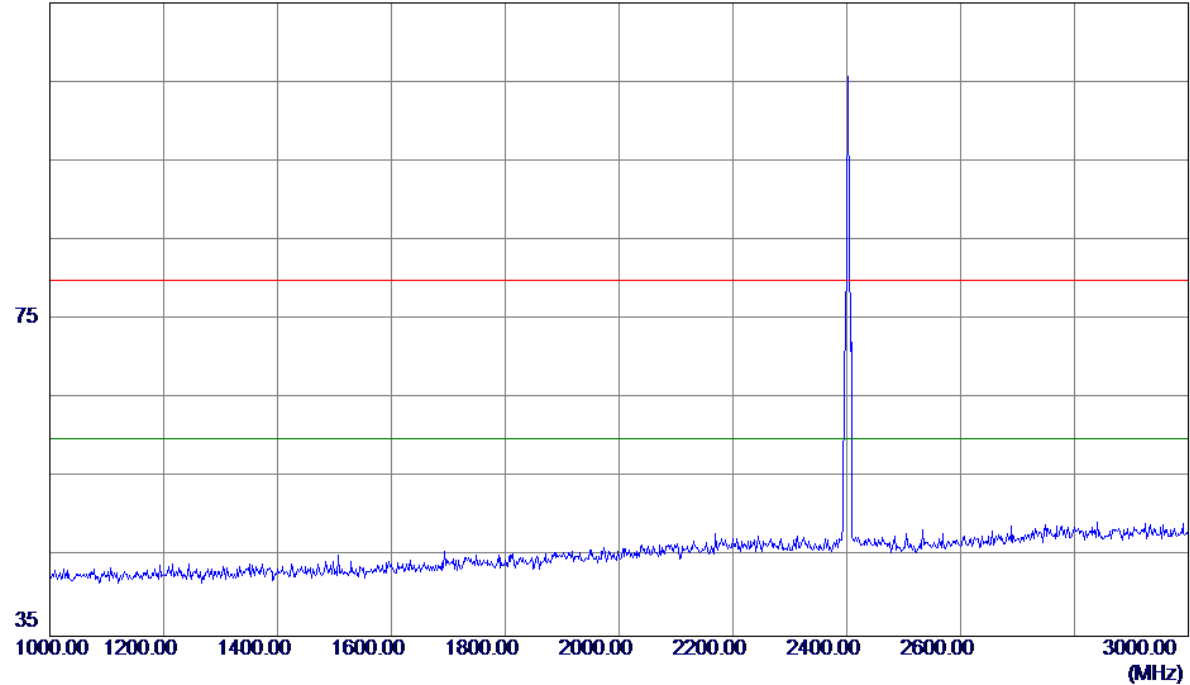


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.83	33.06	55.89	74.00	-18.11	Peak	
2	2390.0000	13.49	33.06	46.55	54.00	-7.45	AVG	
3 *	2402.0500	67.92	33.10	101.02	54.00	47.02	AVG	No Limit
4	2402.0780	71.52	33.10	104.62	74.00	30.62	Peak	No Limit

Test Mode :	TX 2402MHz _CH00_1Mbps
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Horizontal

115 dBuV/m

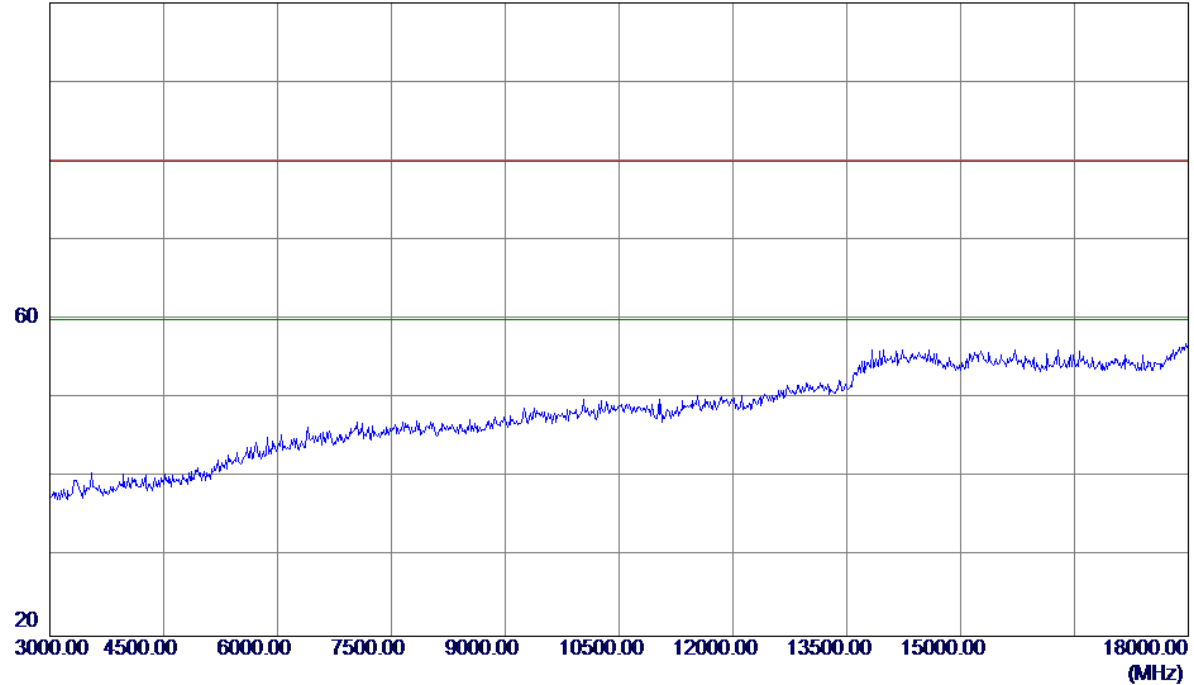


No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode :	TX 2402MHz _CH00_1Mbps
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Horizontal

100 dBuV/m

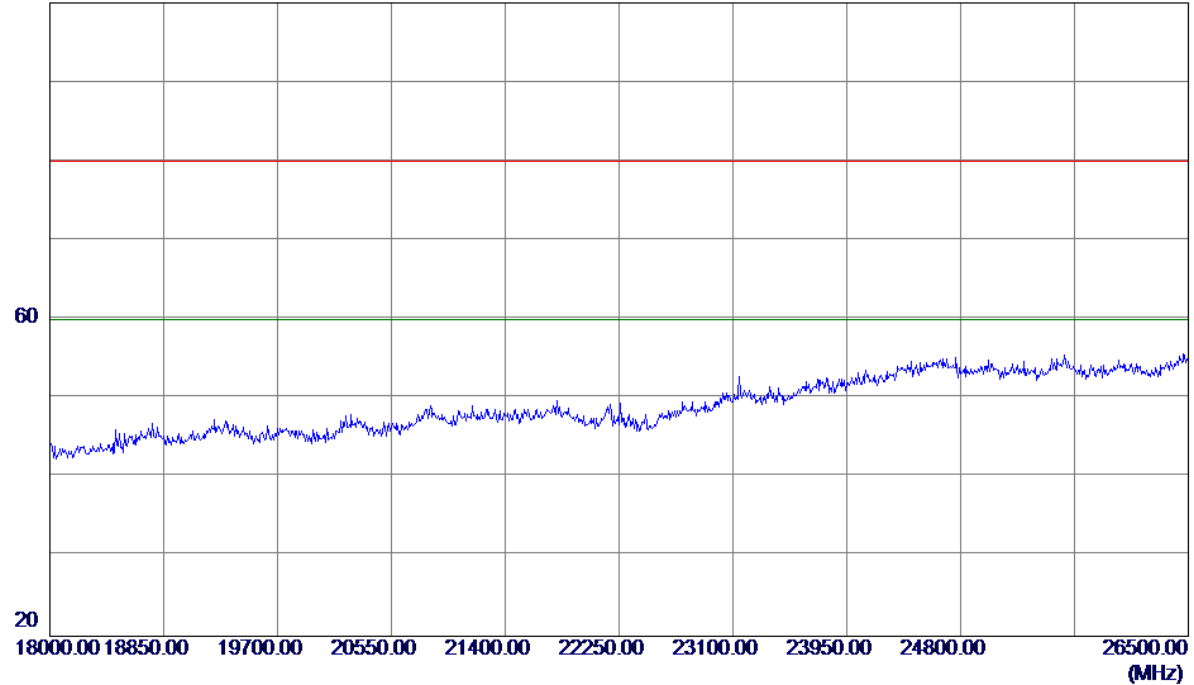


No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

100 dBuV/m

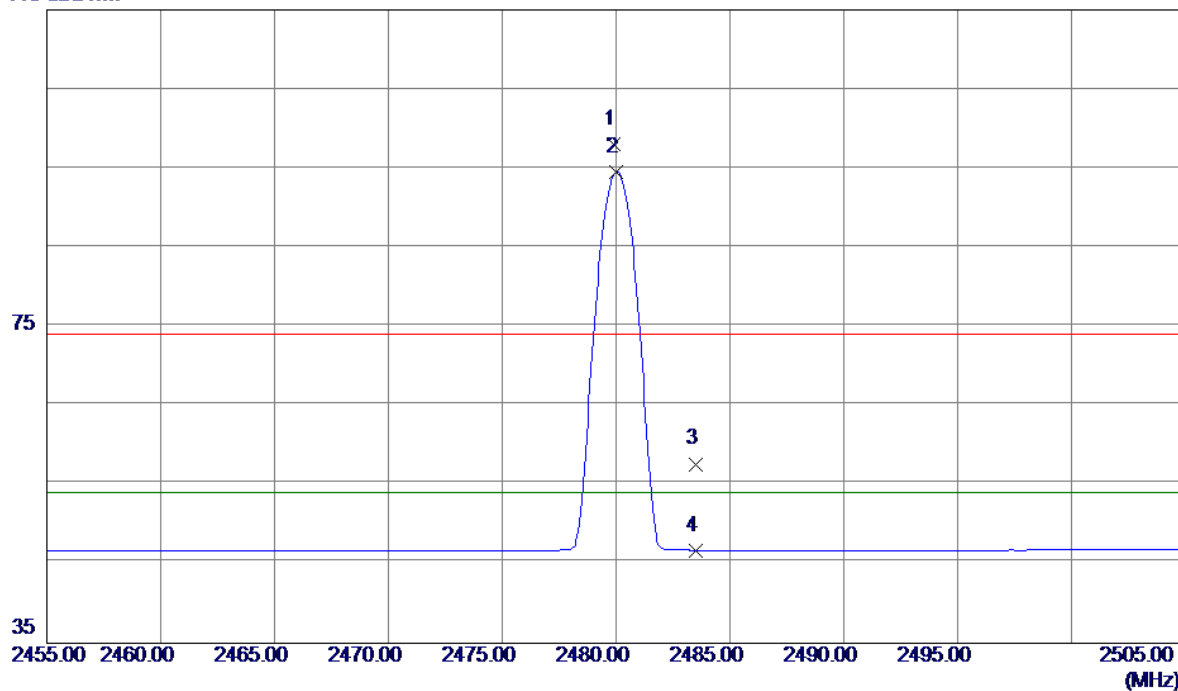


No.	Freq.	Reading	Correct	Measure	Limit	Margin		
	MHz	Level	Factor	ment			Detector	Comment
		dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

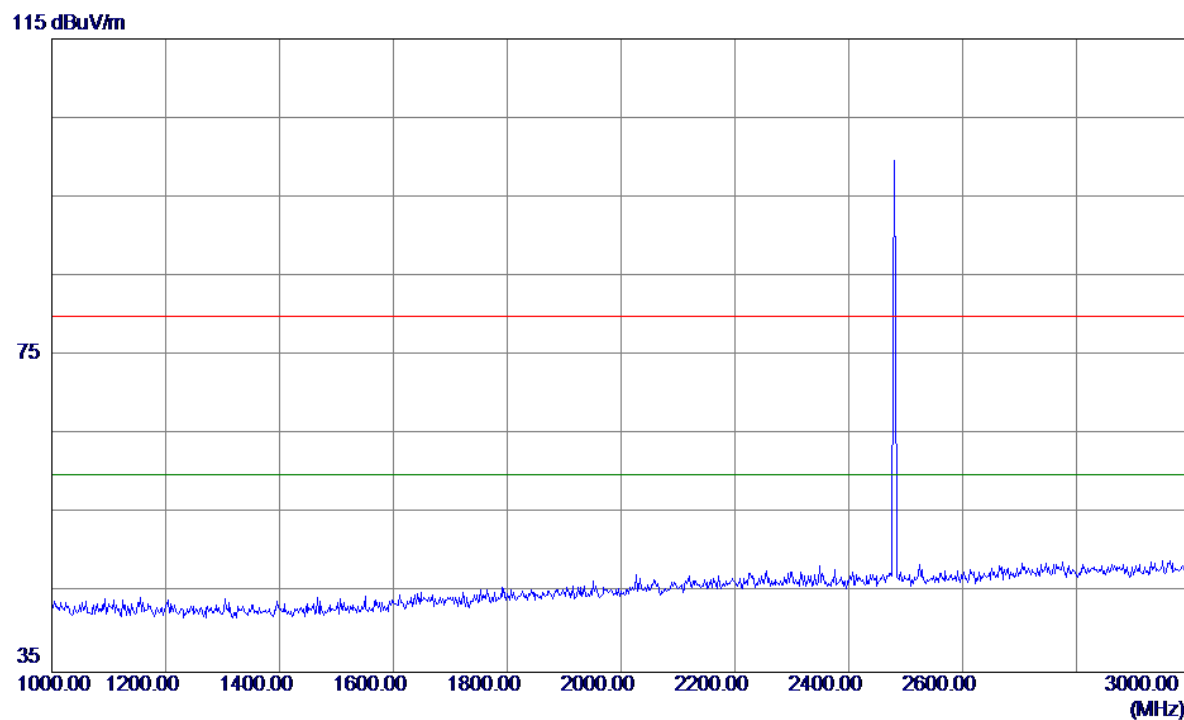
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9000	64.66	33.39	98.05	74.00	24.05	Peak	No Limit
2 *	2480.0000	61.12	33.39	94.51	54.00	40.51	AVG	No Limit
3	2483.5000	24.23	33.41	57.64	74.00	-16.36	Peak	
4	2483.5000	13.35	33.41	46.76	54.00	-7.24	AVG	

Test Mode : TX 2480MHz _CH78 _1Mbps

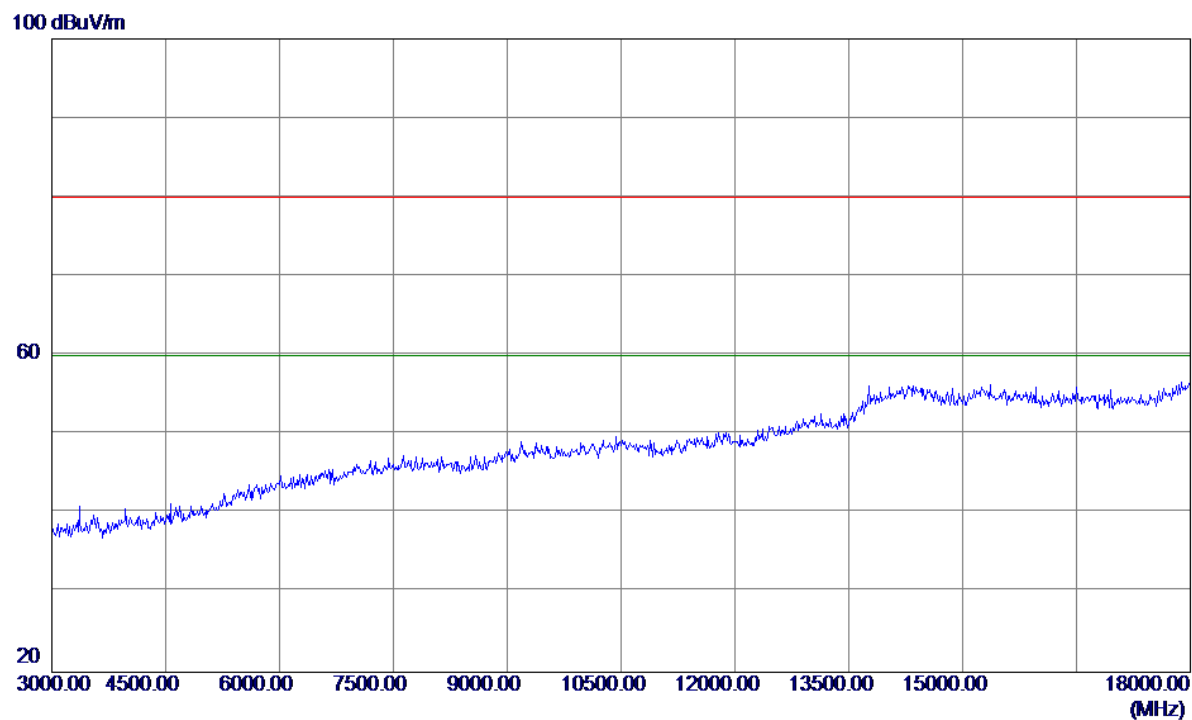
Vertical



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

Test Mode : TX 2480MHz _CH78 _1Mbps

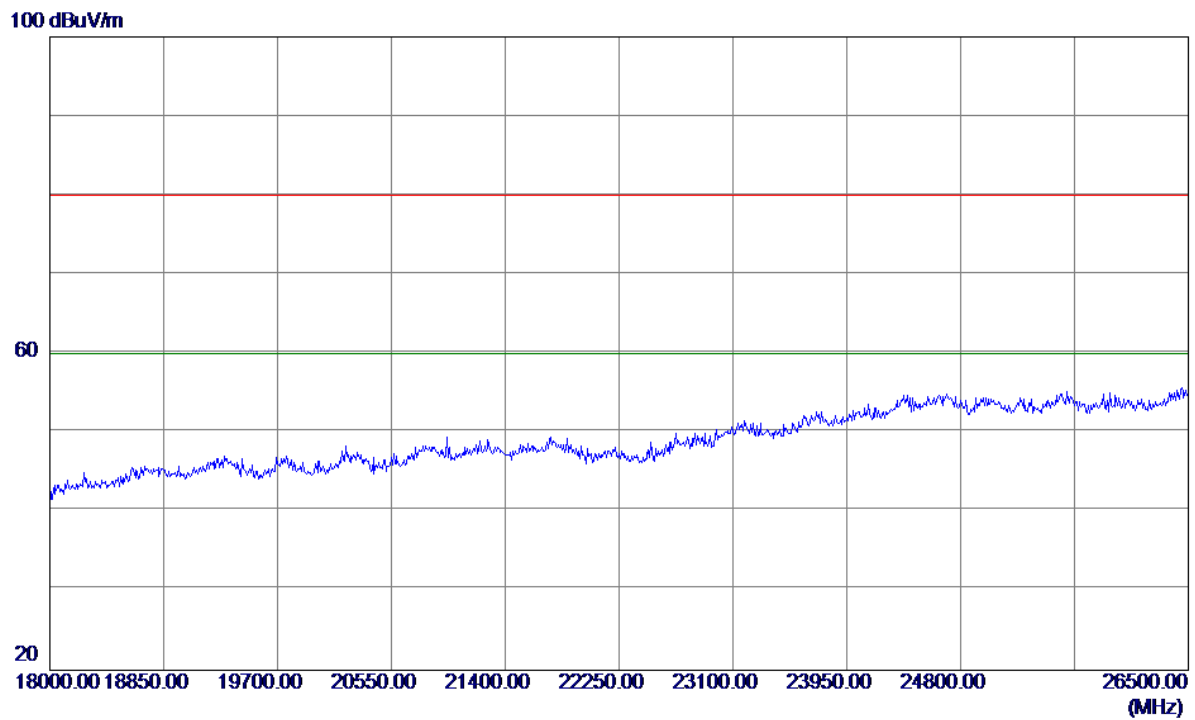
Vertical



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

Test Mode : TX 2480MHz _CH78_1Mbps

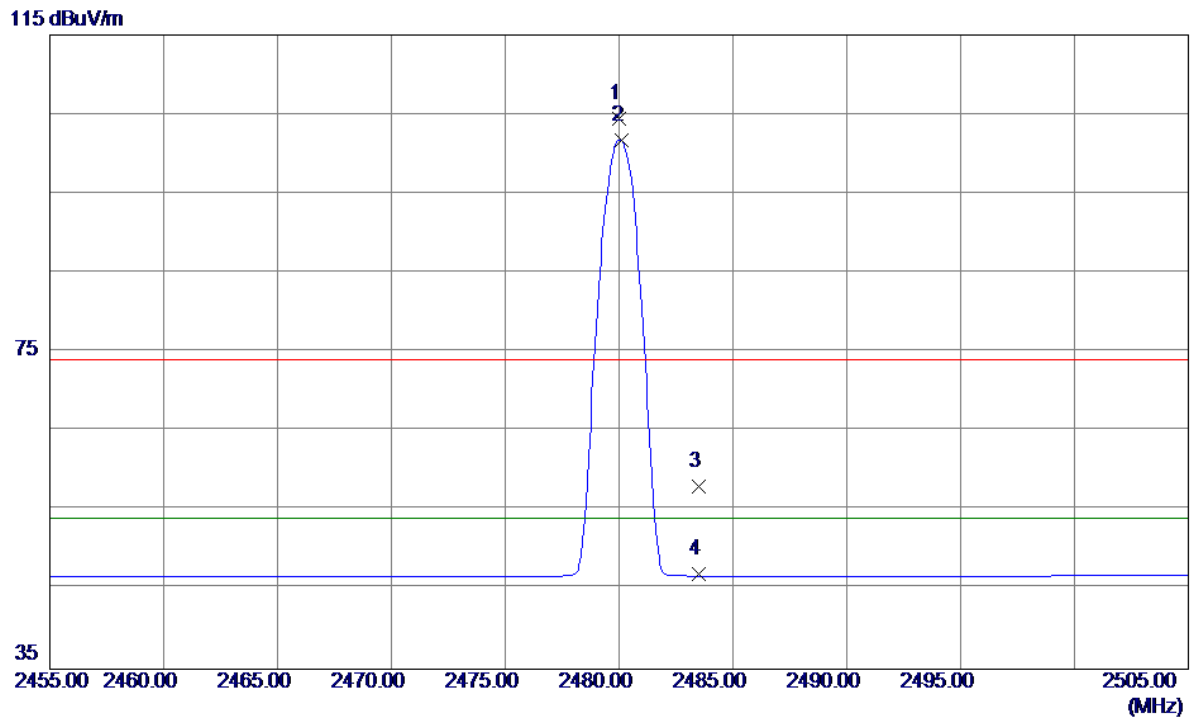
Vertical



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

Test Mode : TX 2480MHz _CH78_1Mbps

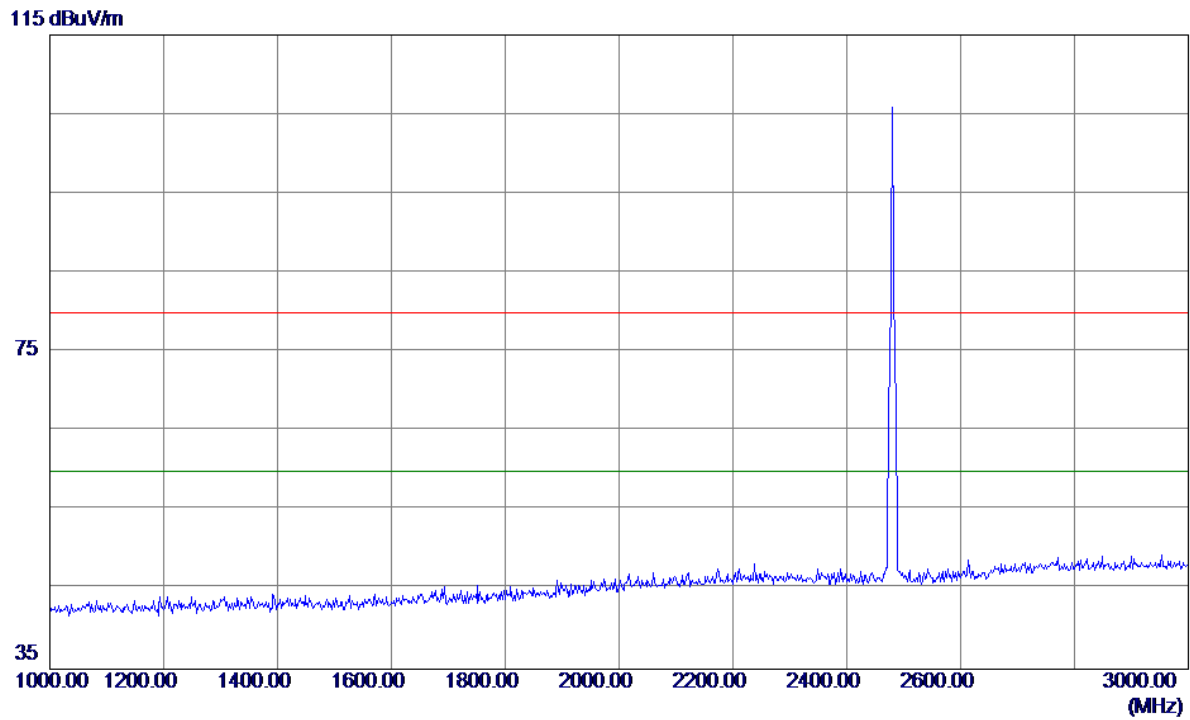
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	71.06	33.39	104.45	74.00	30.45	Peak	No Limit
2 *	2480.1060	68.37	33.40	101.77	54.00	47.77	AVG	No Limit
3	2483.5000	24.67	33.41	58.08	74.00	-15.92	Peak	
4	2483.5000	13.66	33.41	47.07	54.00	-6.93	AVG	

Test Mode :	TX 2480MHz _CH78 _1Mbps
-------------	-------------------------

Horizontal

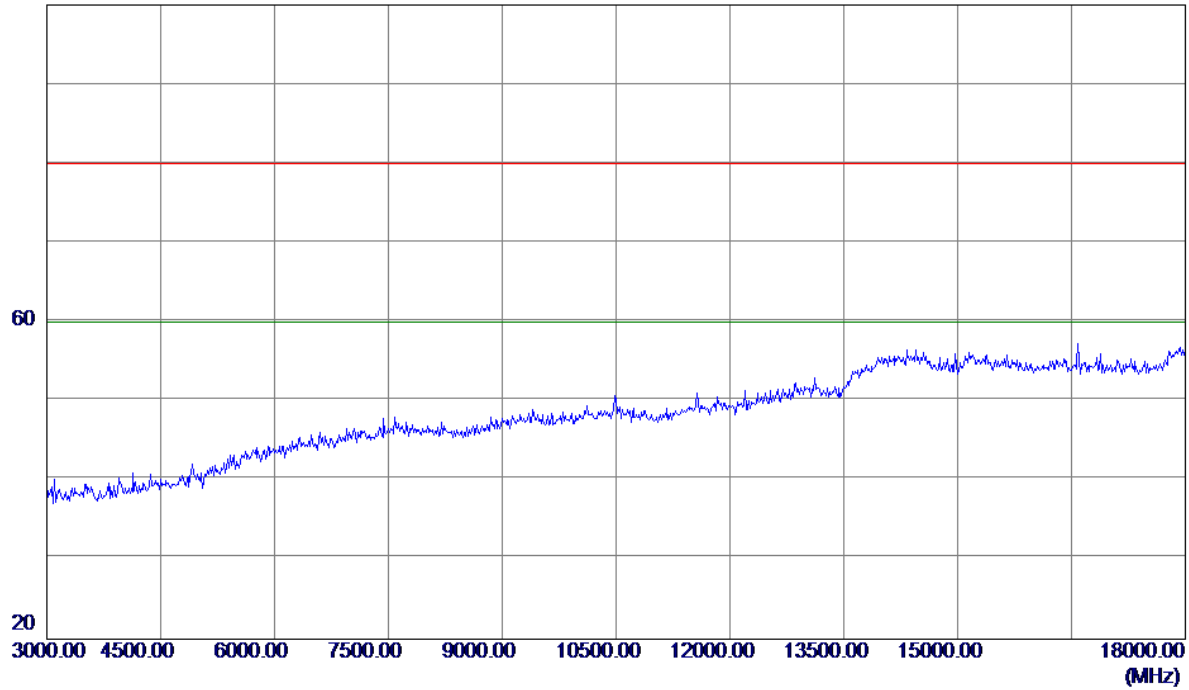


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode :	TX 2480MHz _CH78 _1Mbps
-------------	-------------------------

Horizontal

100 dBuV/m

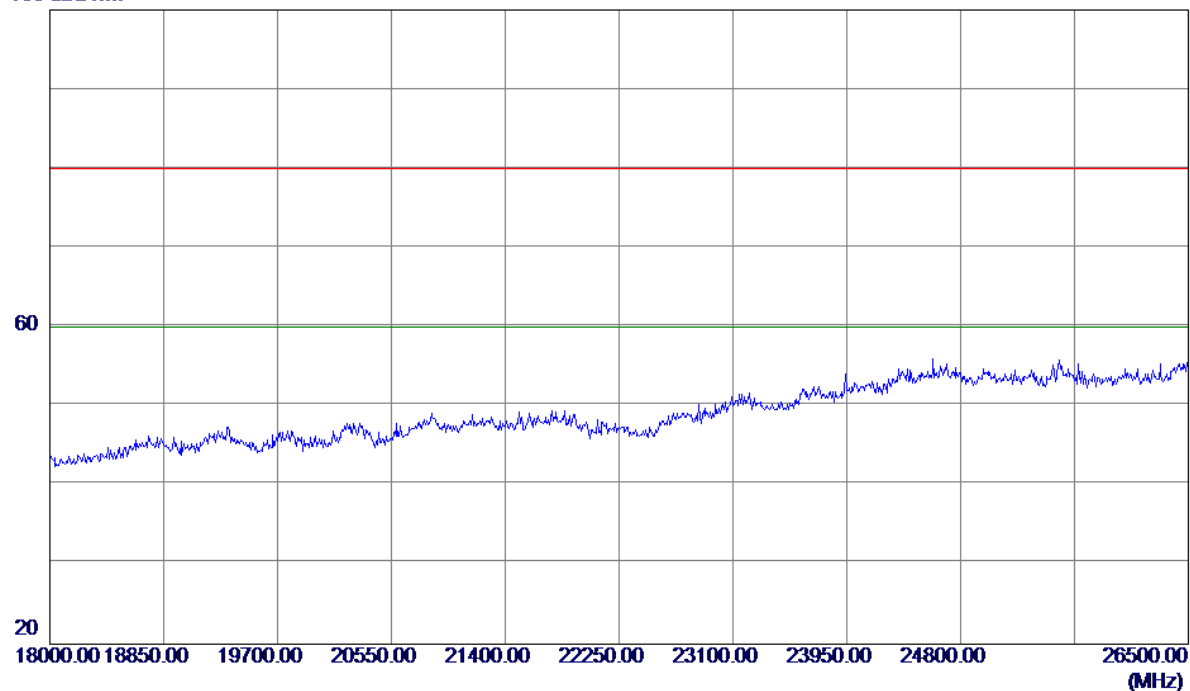


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

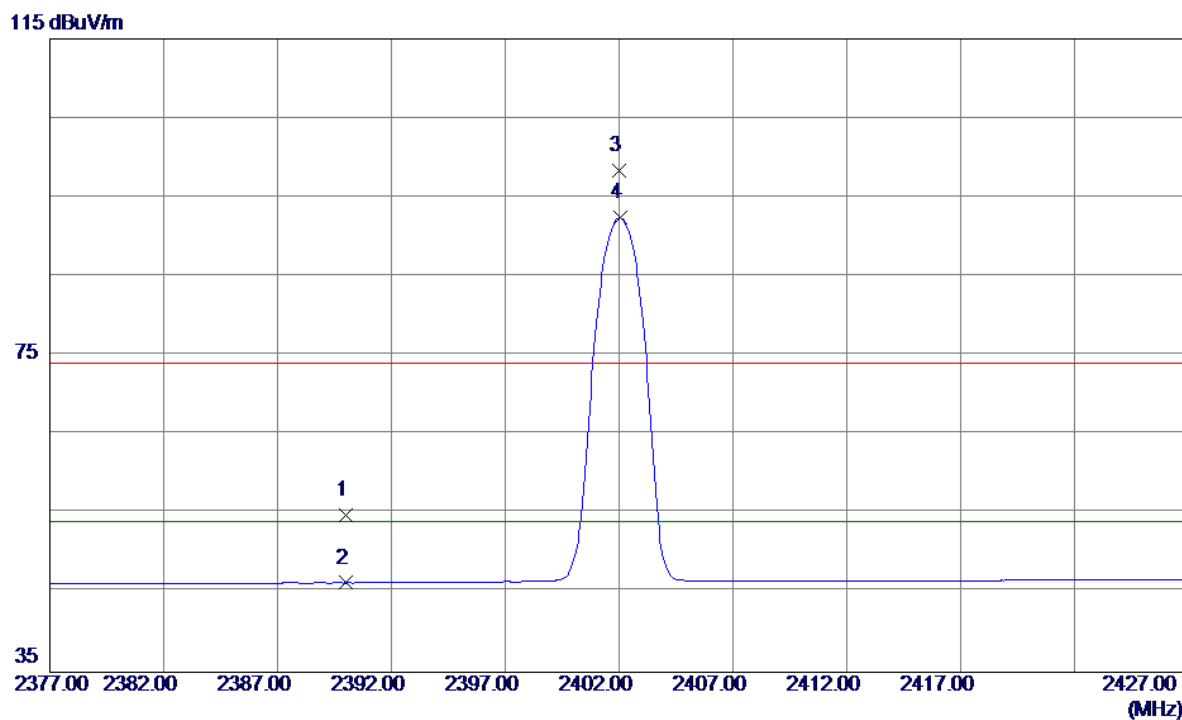
100 dBuV/m



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

Test Mode : TX 2402MHz _CH00_3Mbps

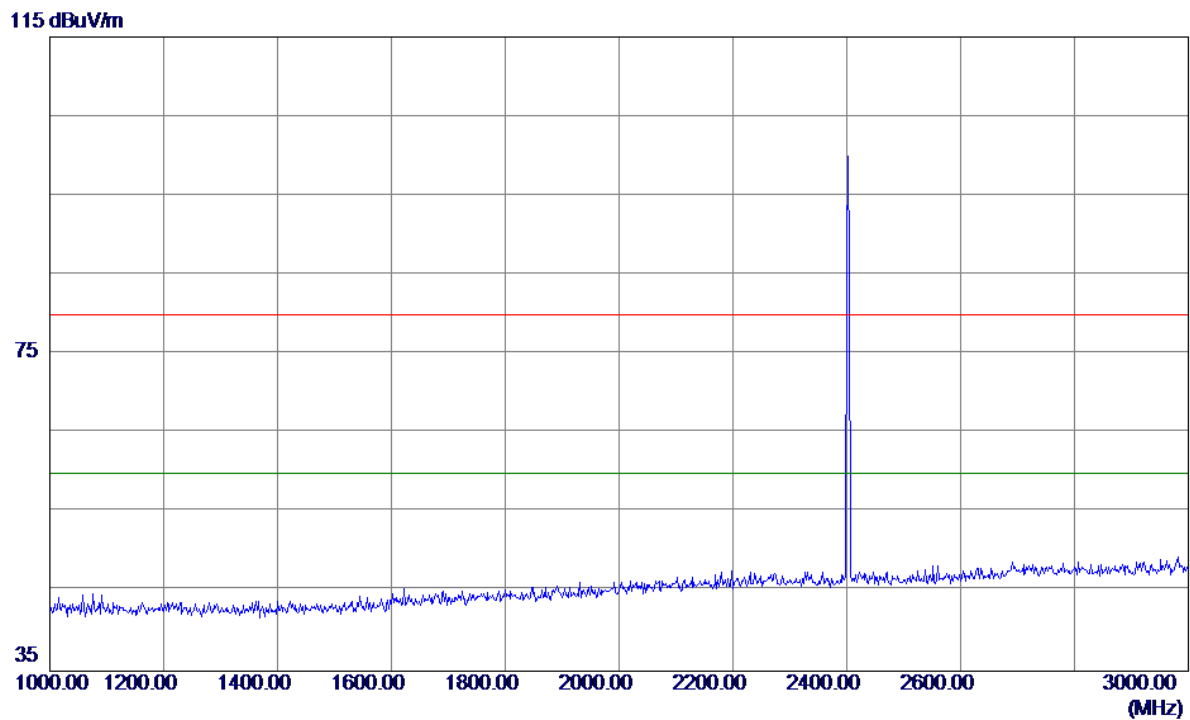
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	21.75	33.06	54.81	74.00	-19.19	Peak	
2	2390.0000	13.22	33.06	46.28	54.00	-7.72	AVG	
3	2402.0000	65.30	33.10	98.40	74.00	24.40	Peak	No Limit
4 *	2402.0500	59.27	33.10	92.37	54.00	38.37	AVG	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

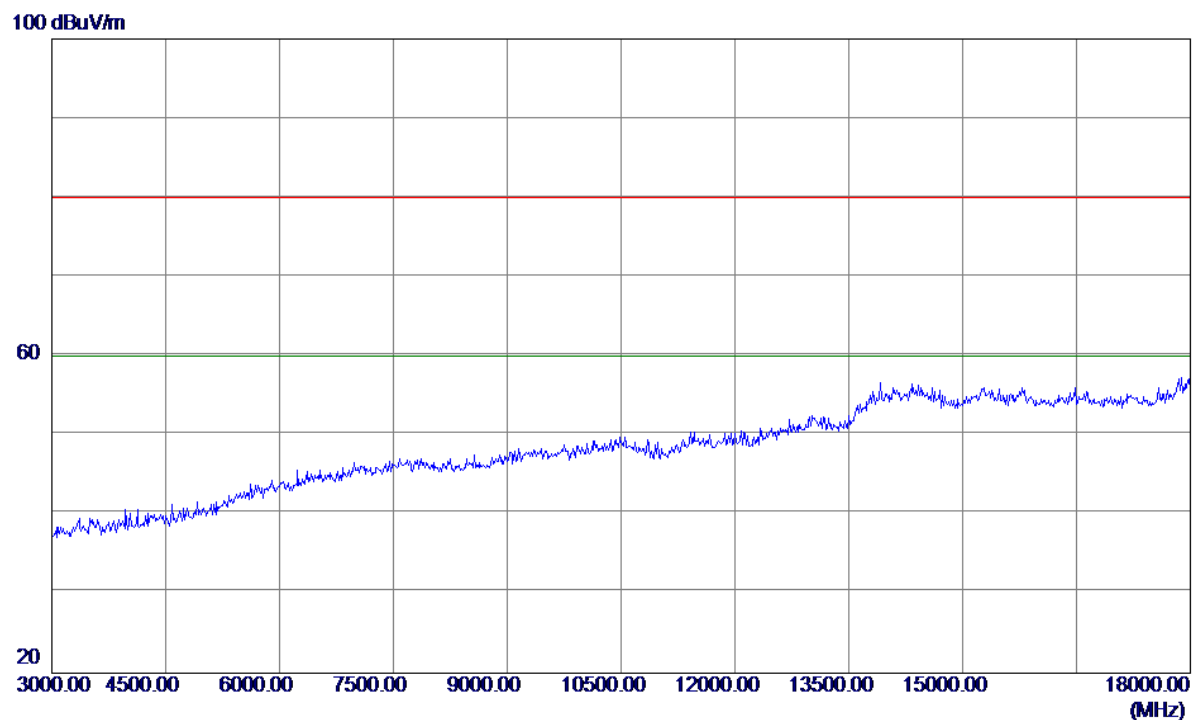
Vertical



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

Test Mode :	TX 2402MHz _CH00_3Mbps
-------------	------------------------

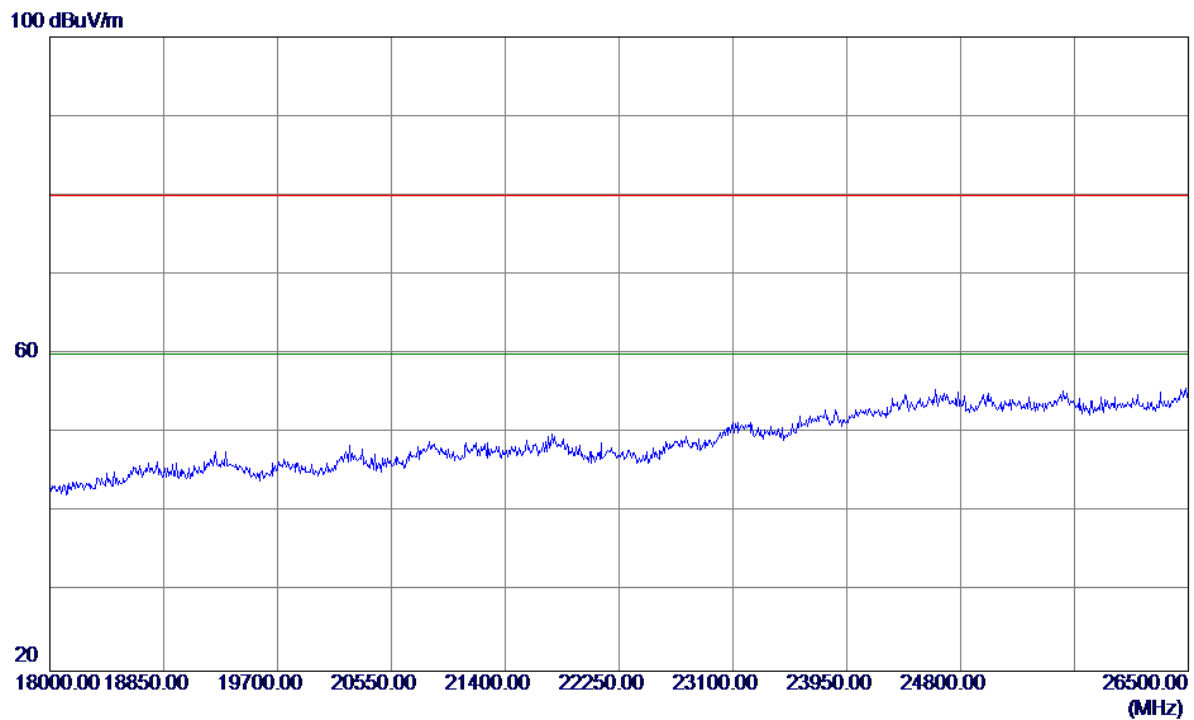
Vertical



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

Test Mode :	TX 2402MHz _CH00_3Mbps
-------------	------------------------

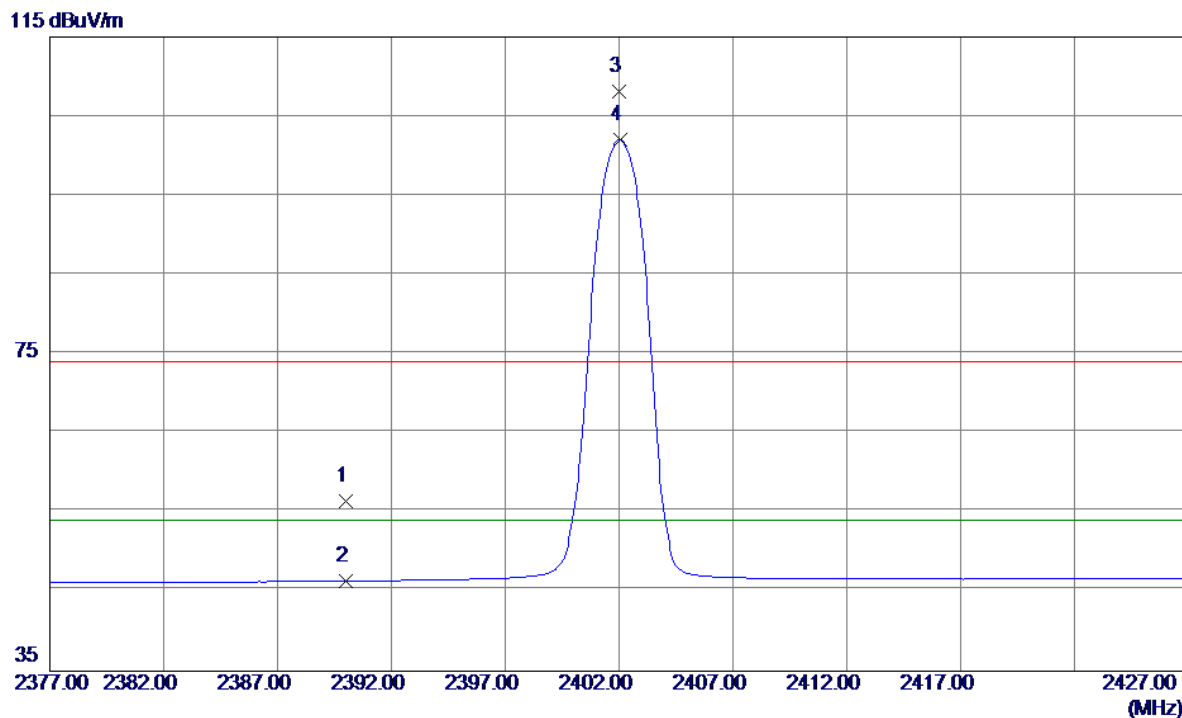
Vertical



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

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal

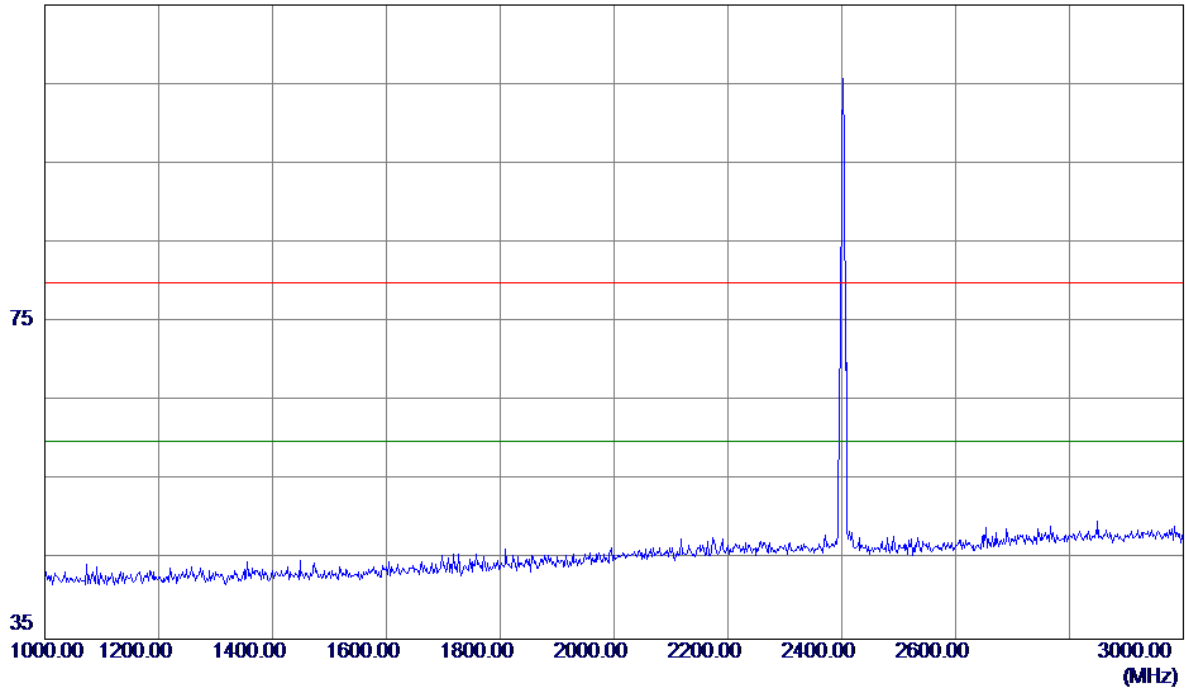


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.41	33.06	56.47	74.00	-17.53	Peak	
2	2390.0000	13.27	33.06	46.33	54.00	-7.67	AVG	
3	2402.0000	74.97	33.10	108.07	74.00	34.07	Peak	No Limit
4 *	2402.0500	68.95	33.10	102.05	54.00	48.05	AVG	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal

115 dBuV/m

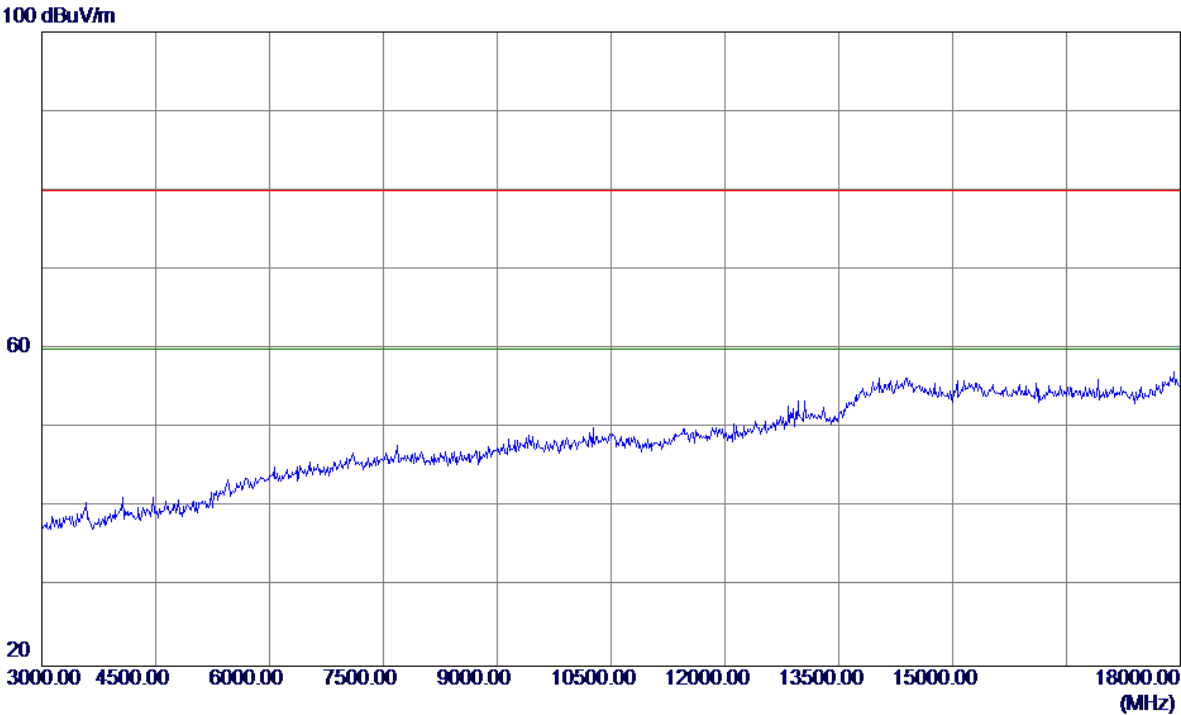


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode :

TX 2402MHz _CH00_3Mbps

Horizontal

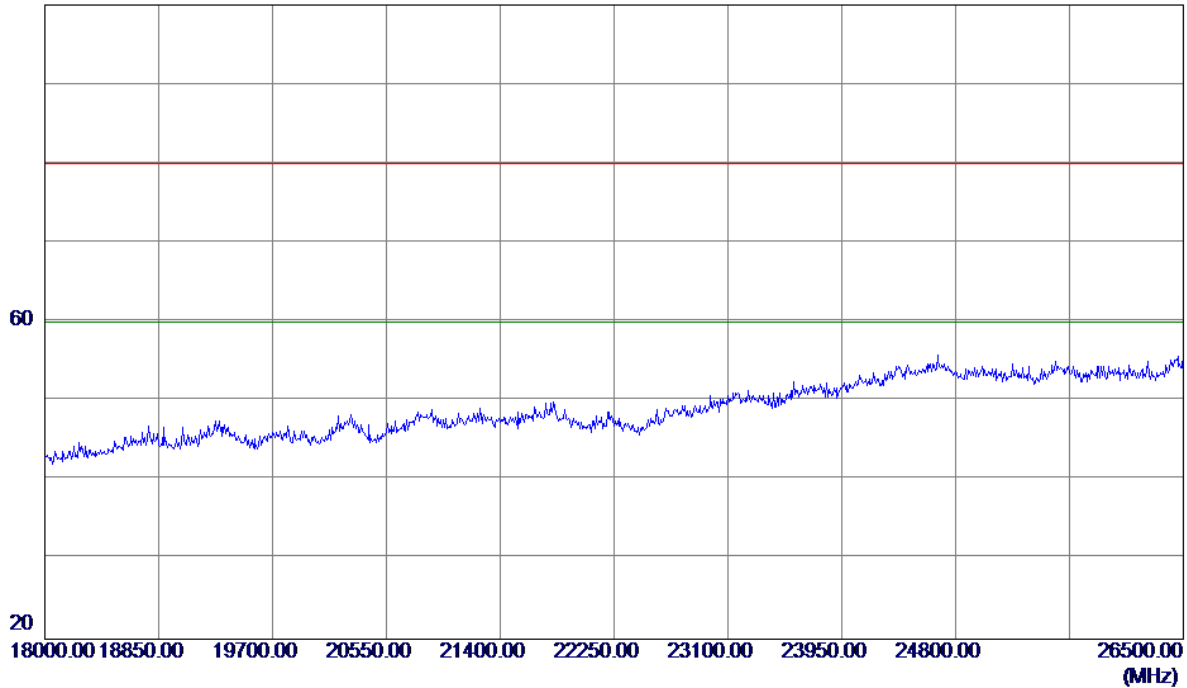


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal

100 dBuV/m

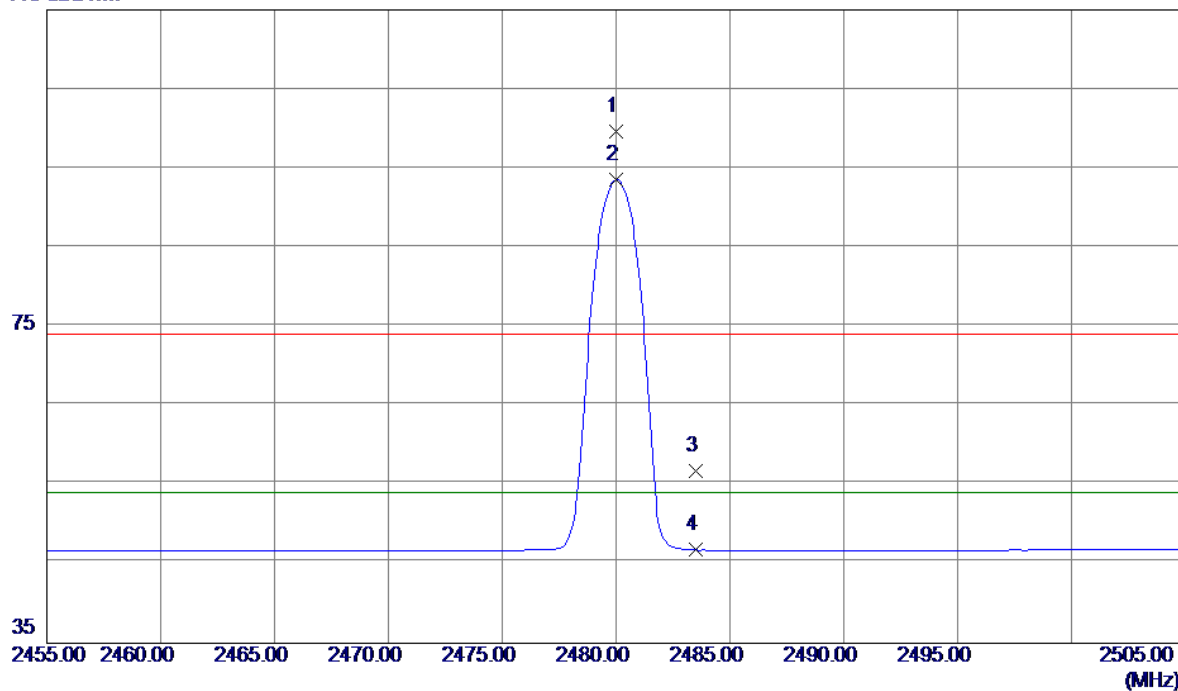


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

115 dBuV/m

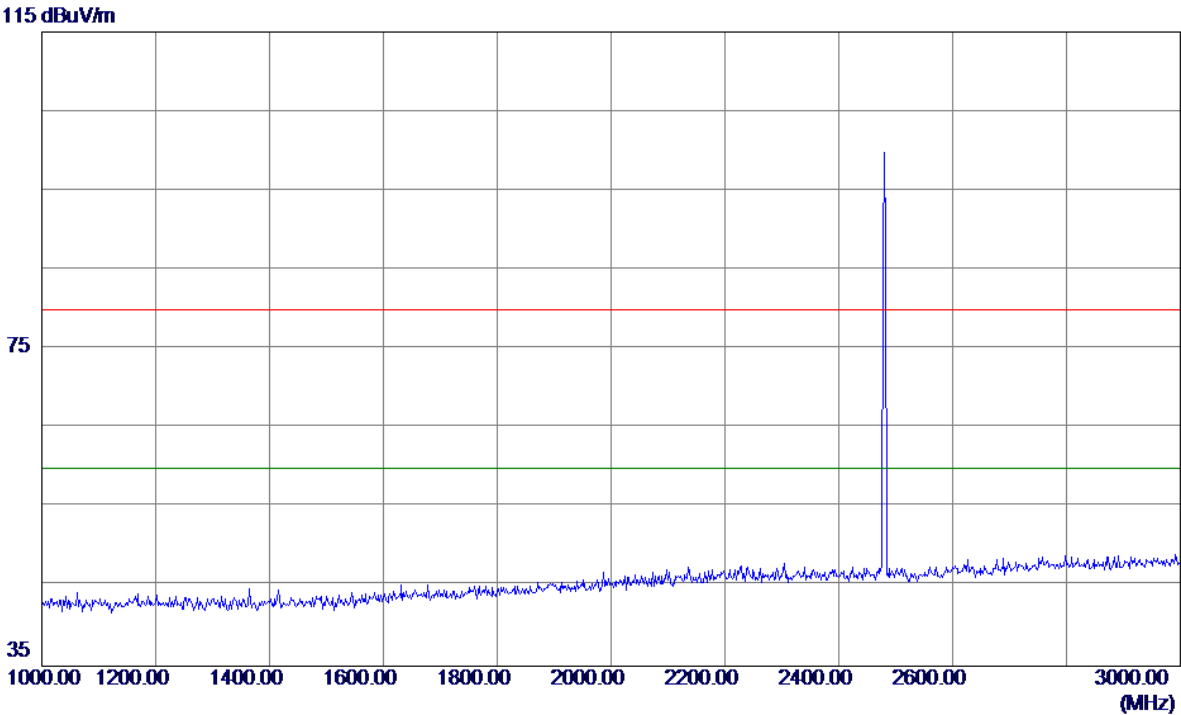


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	66.25	33.39	99.64	74.00	25.64	Peak	No Limit
2 *	2480.0000	60.13	33.39	93.52	54.00	39.52	AVG	No Limit
3	2483.5000	23.36	33.41	56.77	74.00	-17.23	Peak	
4	2483.5000	13.36	33.41	46.77	54.00	-7.23	AVG	

Test Mode :

TX 2480MHz _CH78_3Mbps

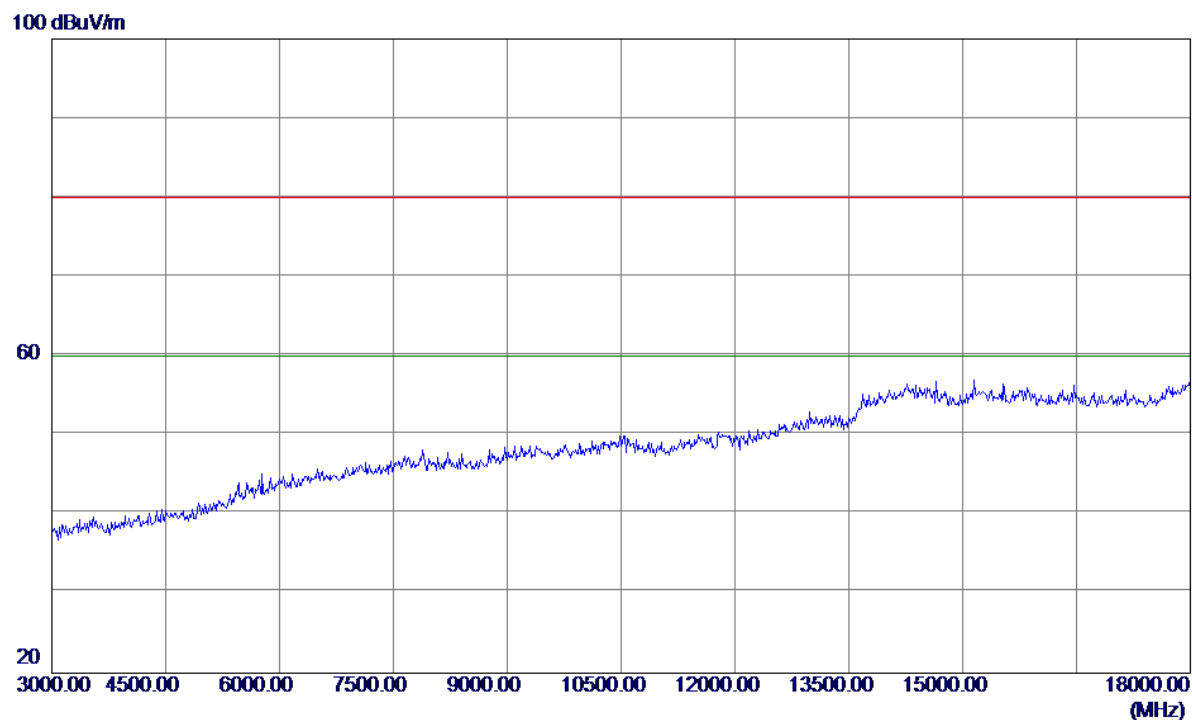
Vertical



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

Test Mode : TX 2480MHz _CH78 _3Mbps

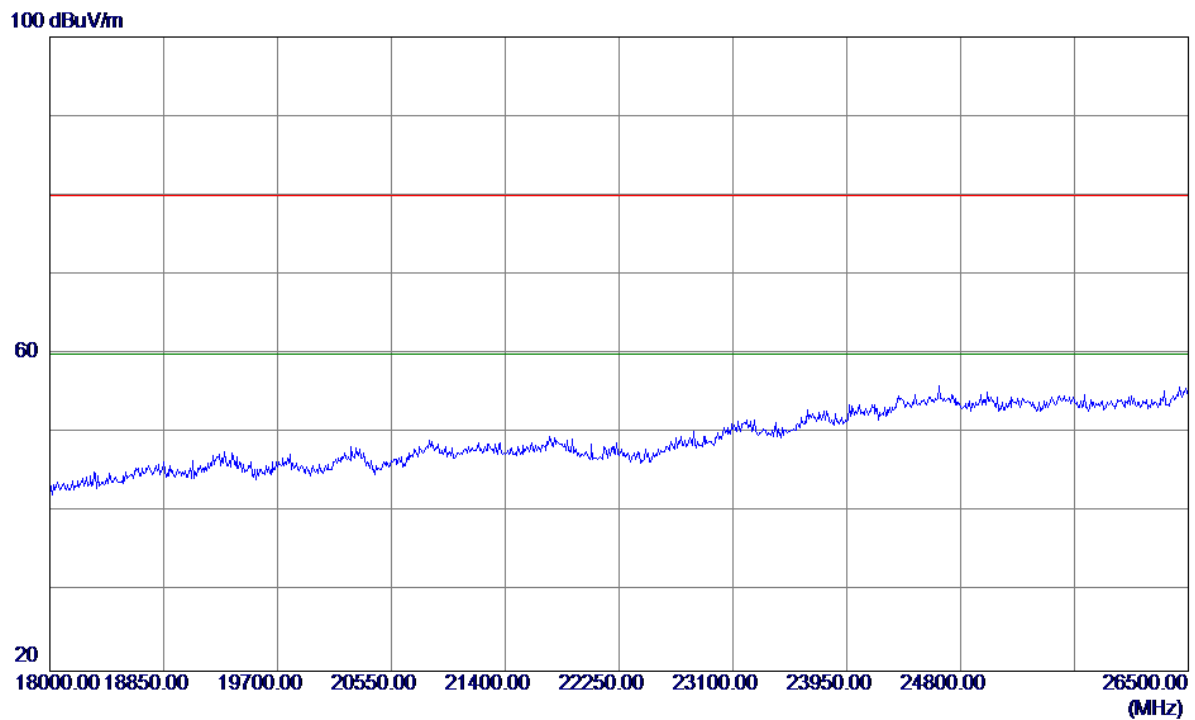
Vertical



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

Test Mode : TX 2480MHz _CH78_3Mbps

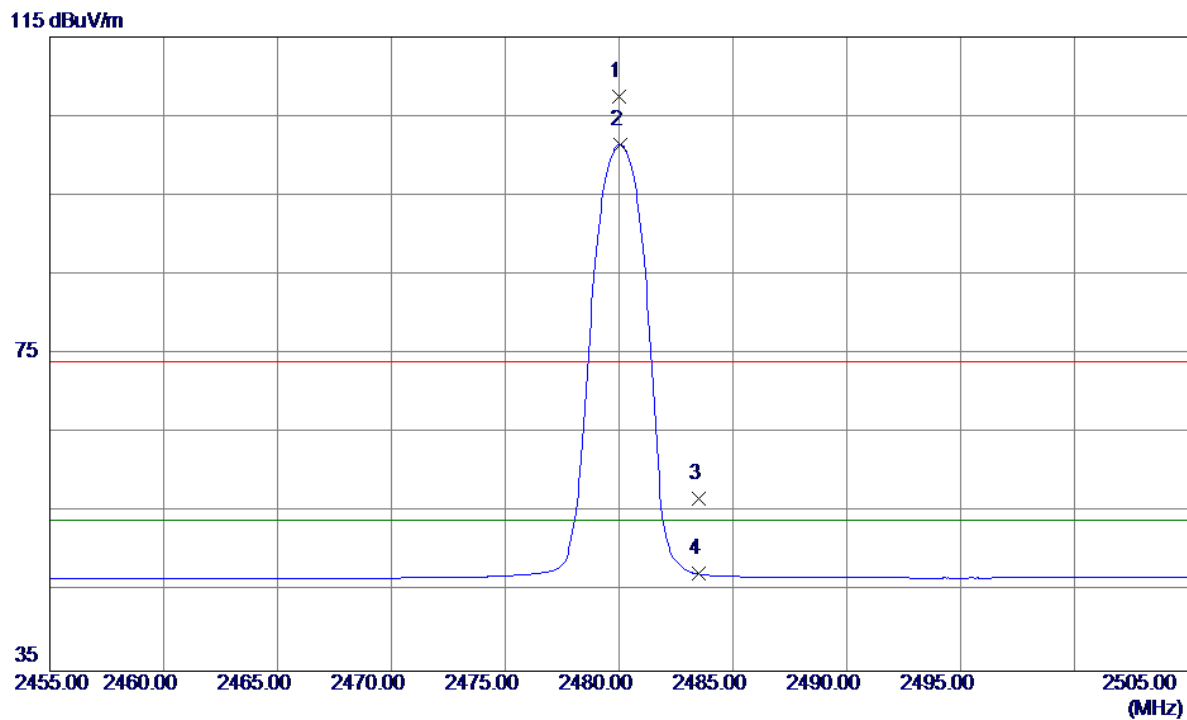
Vertical



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

Test Mode : TX 2480MHz _CH78_3Mbps

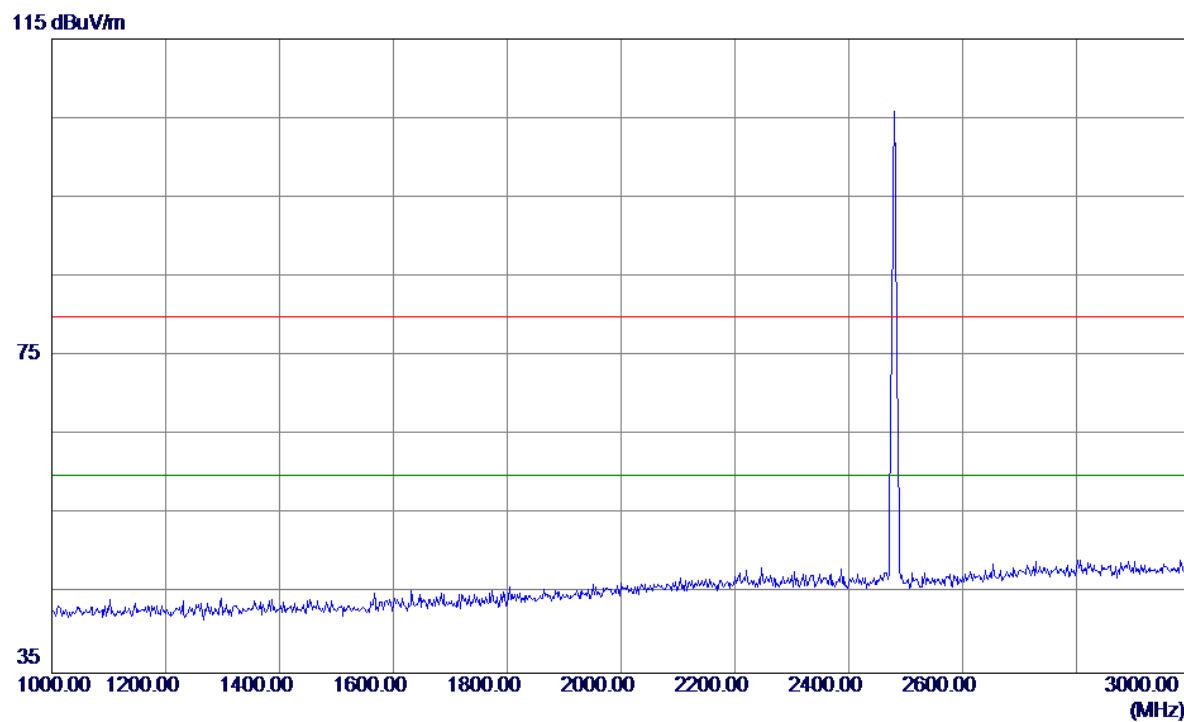
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	74.11	33.39	107.50	74.00	33.50	Peak	No Limit
2 *	2480.0500	68.04	33.39	101.43	54.00	47.43	AVG	No Limit
3	2483.5000	23.36	33.41	56.77	74.00	-17.23	Peak	
4	2483.5000	13.84	33.41	47.25	54.00	-6.75	AVG	

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

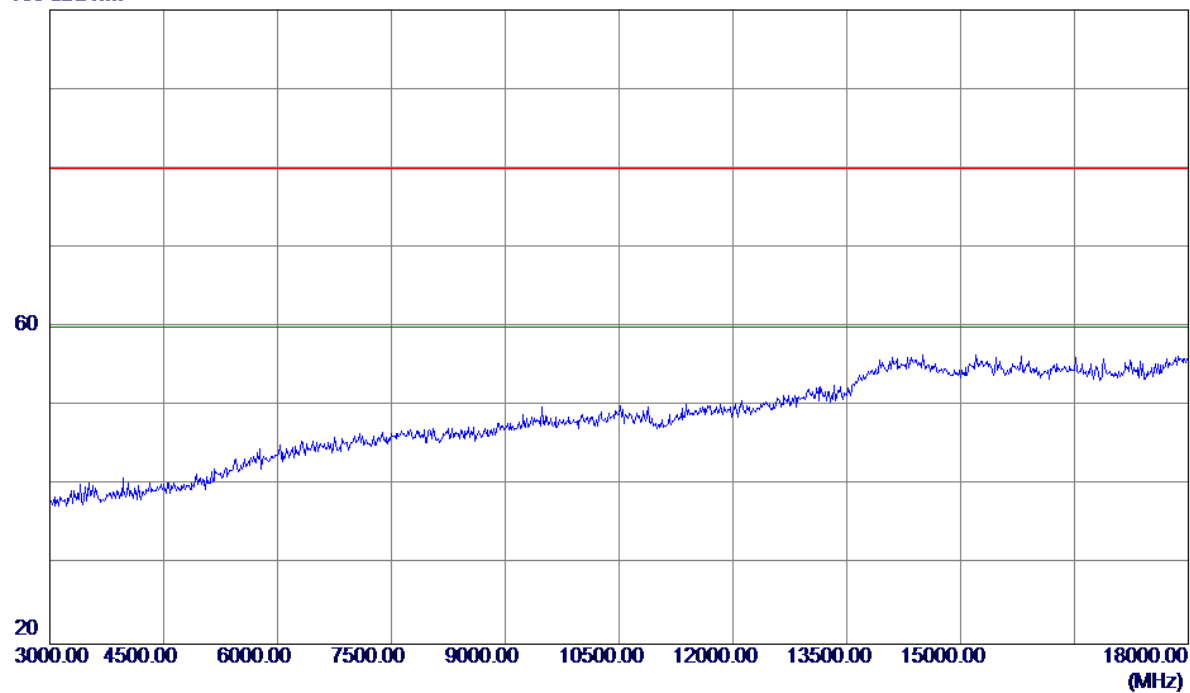


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
	MHz	Level	Factor	ment				
		dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode :	TX 2480MHz _CH78 _3Mbps
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Horizontal

100 dBuV/m

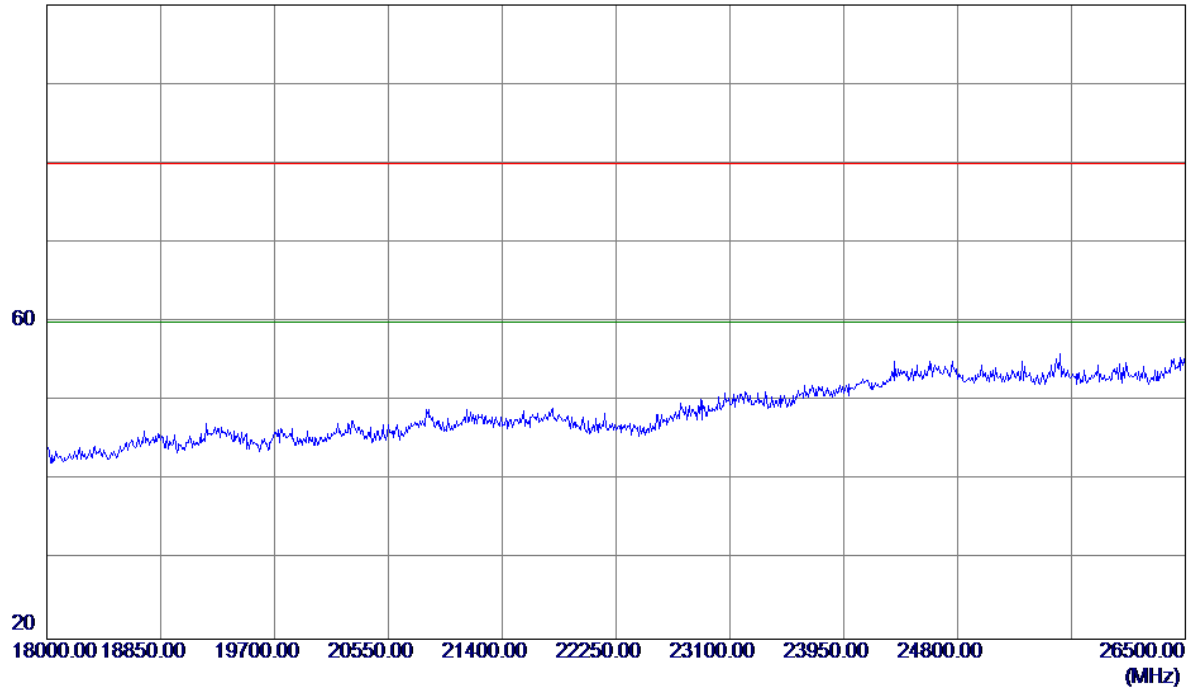


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		

Test Mode :	TX 2480MHz _CH78_3Mbps
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Horizontal

100 dBuV/m



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

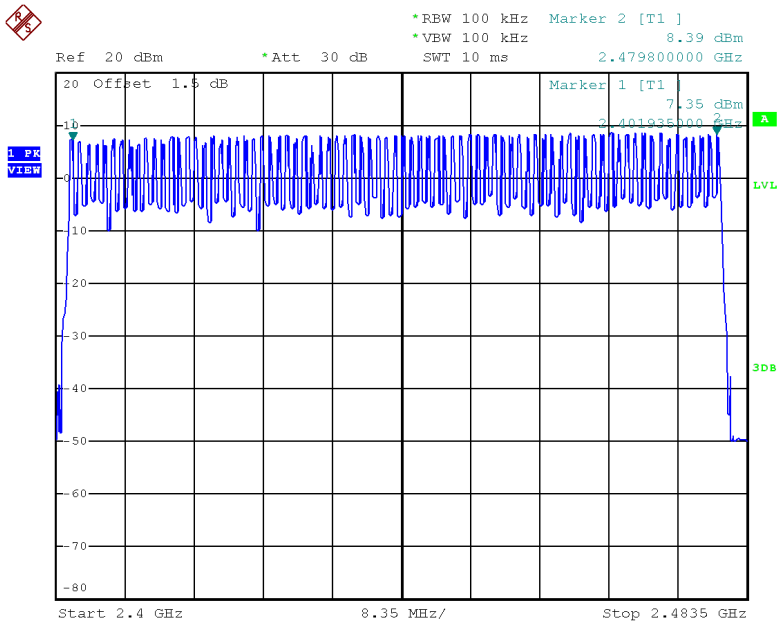
APPENDIX E - NUMBER OF HOPPING CHANNEL

Test Mode

Hopping Mode_1Mbps

Number of Hopping Channel

79



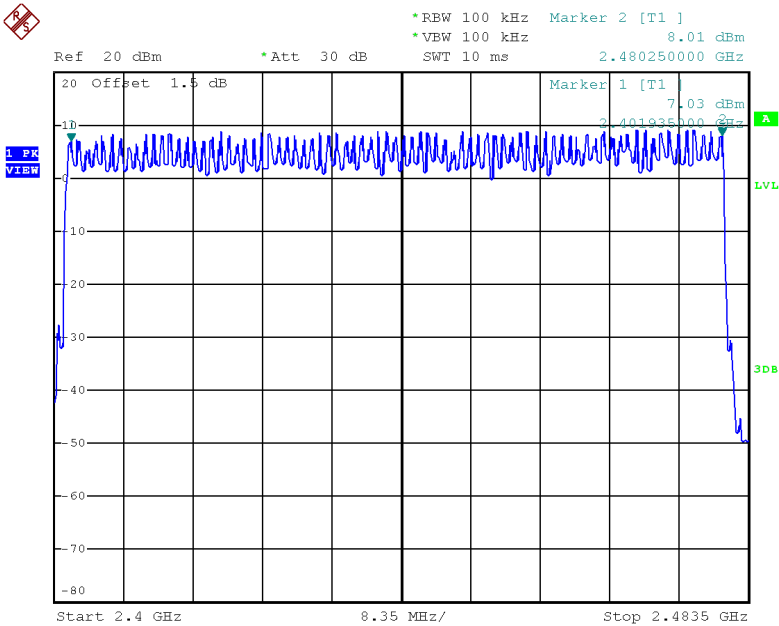
Date: 25.JUL.2017 15:42:38

Test Mode

Hopping Mode_3Mbps

Number of Hopping Channel

79



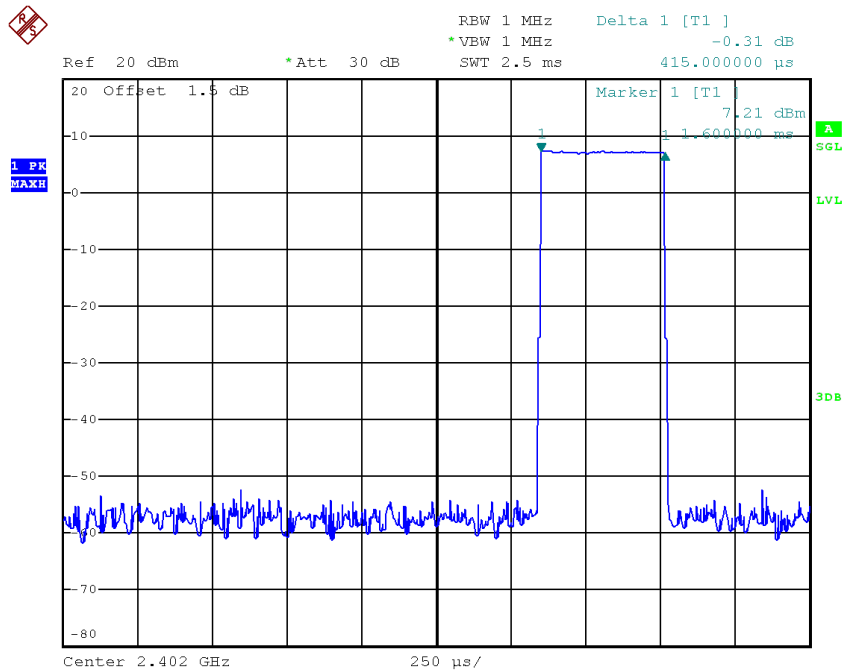
Date: 25.JUL.2017 16:00:31

APPENDIX F - AVERAGE TIME OF OCCUPANCY

Test Mode :	TX Mode_1Mbps
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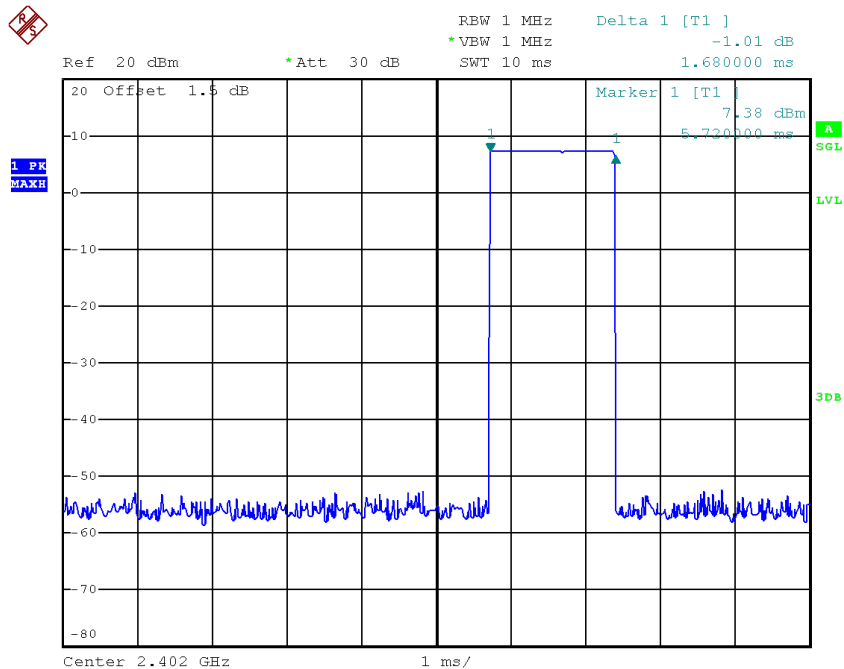
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.9200	0.3115	0.4000	Pass
DH3	2402	1.6800	0.2688	0.4000	Pass
DH1	2402	0.4150	0.1328	0.4000	Pass
DH5	2441	2.9200	0.3115	0.4000	Pass
DH3	2441	1.6800	0.2688	0.4000	Pass
DH1	2441	0.4150	0.1328	0.4000	Pass
DH5	2480	2.9200	0.3115	0.4000	Pass
DH3	2480	1.6600	0.2656	0.4000	Pass
DH1	2480	0.4150	0.1328	0.4000	Pass

CH00-DH1



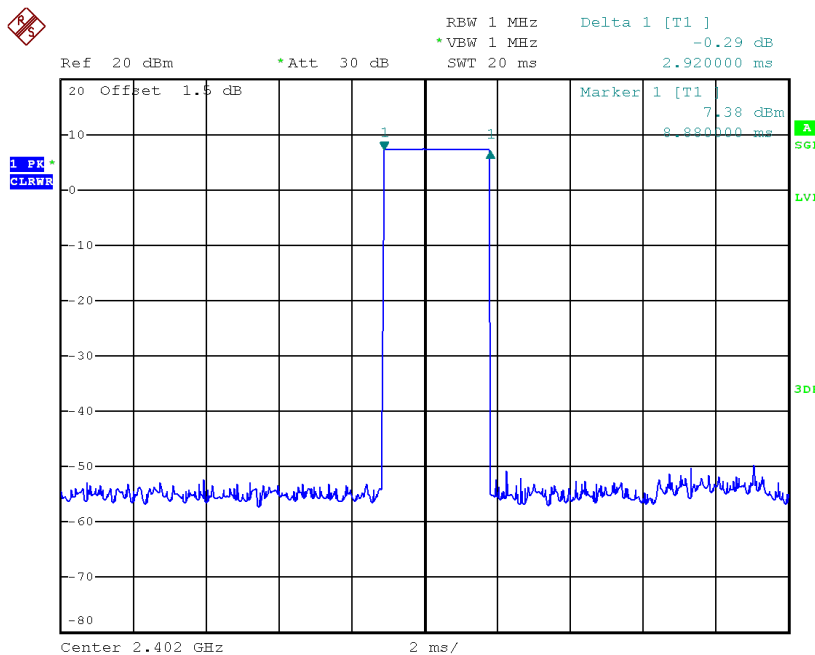
Date: 25.JUL.2017 15:34:16

CH00-DH3



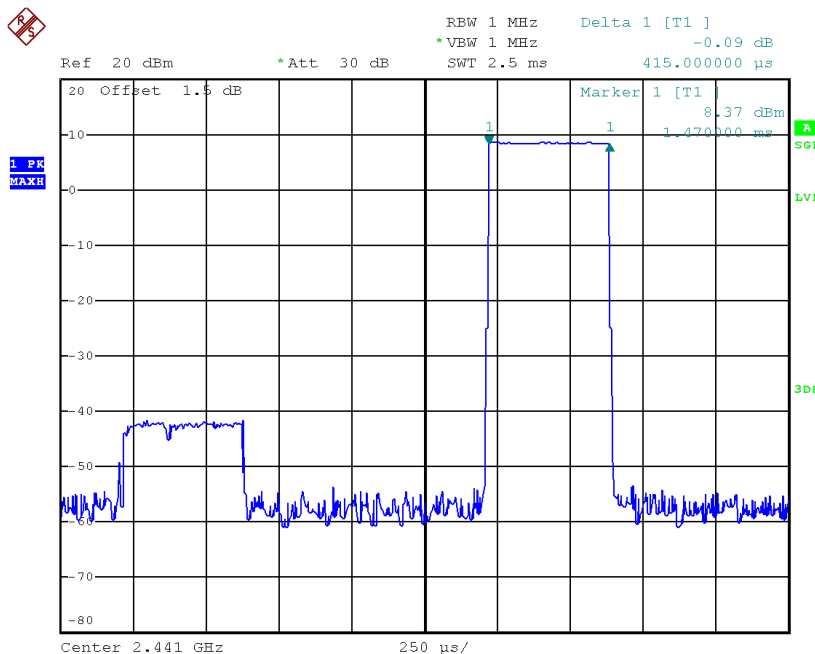
Date: 25.JUL.2017 15:46:26

CH00-DH5



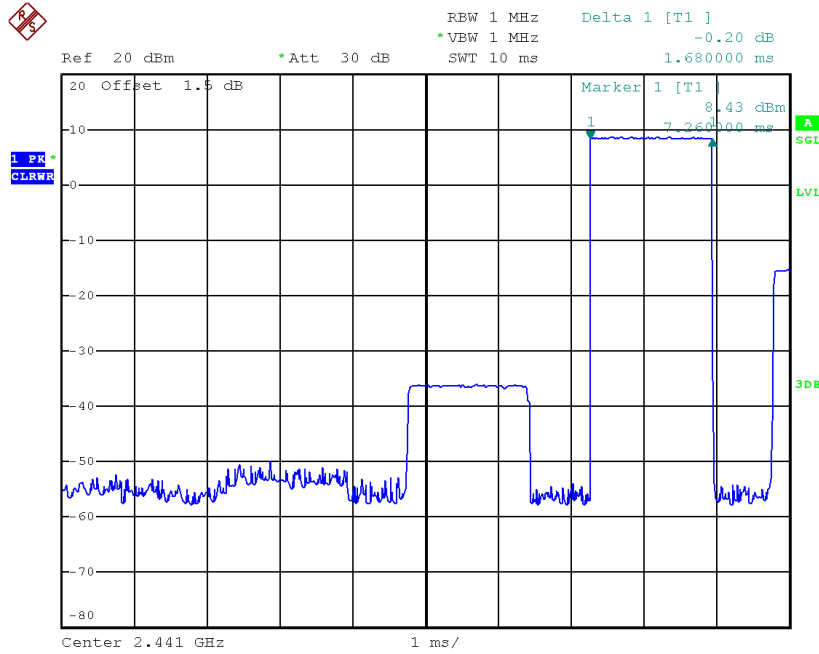
Date: 25.JUL.2017 15:48:12

CH39-DH1



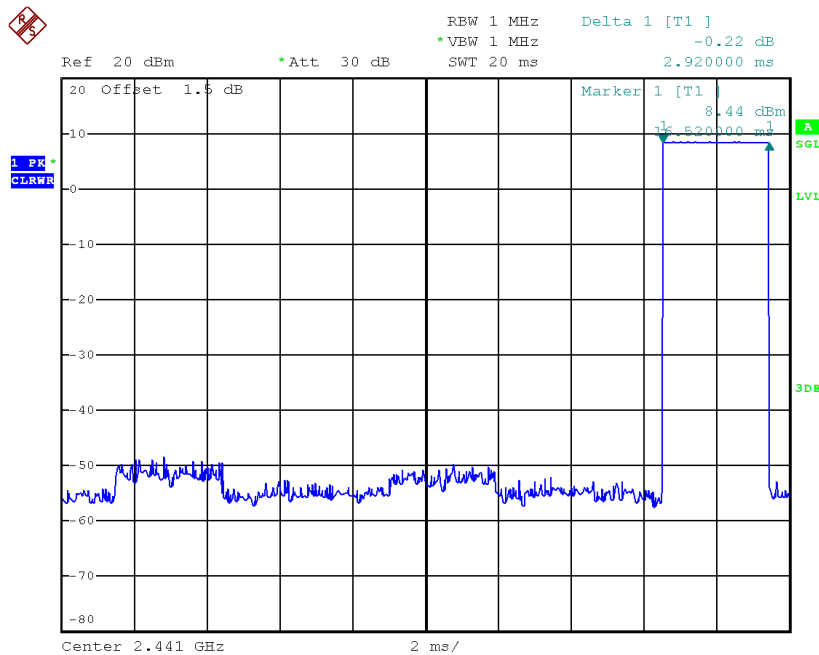
Date: 25.JUL.2017 15:36:27

CH39-DH3



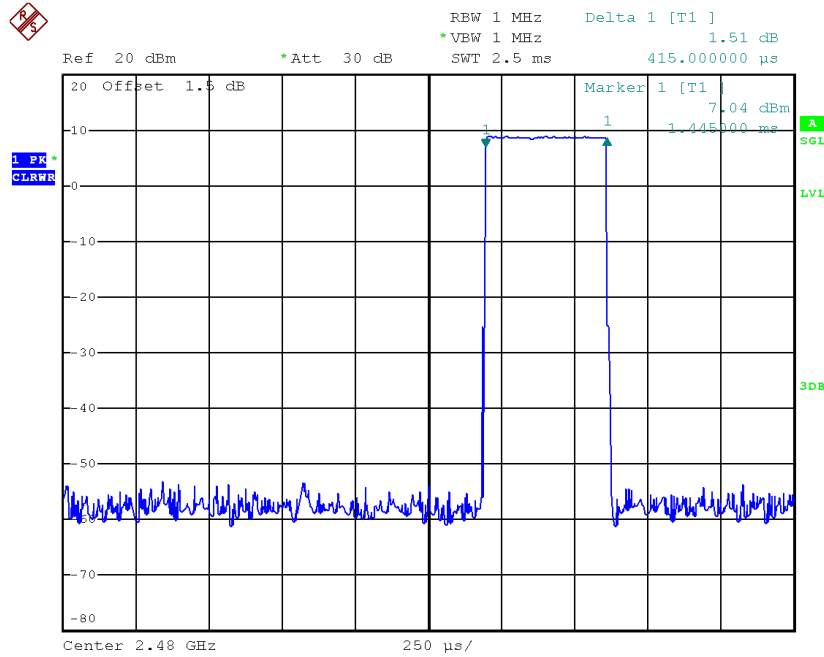
Date: 25.JUL.2017 15:46:45

CH39-DH5



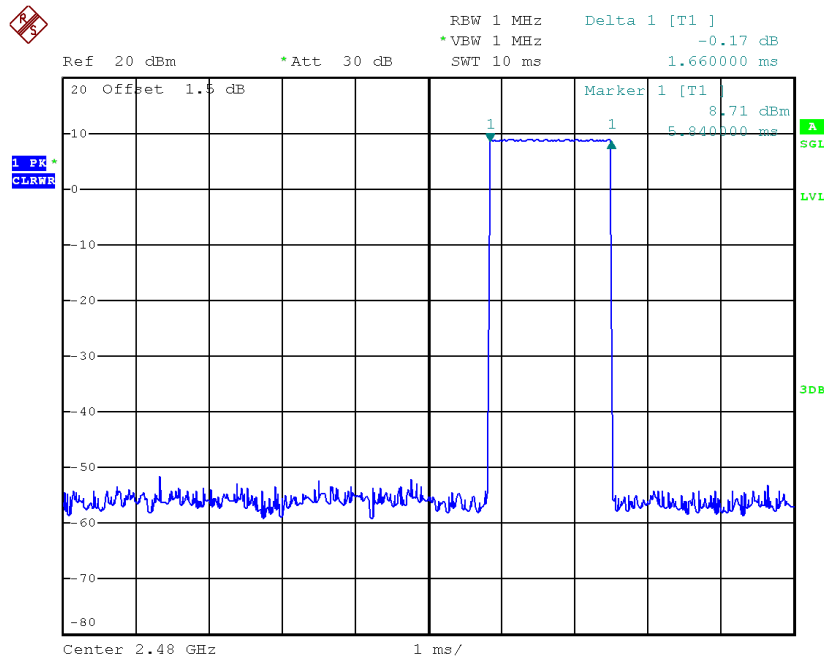
Date: 25.JUL.2017 15:48:39

CH78-DH1



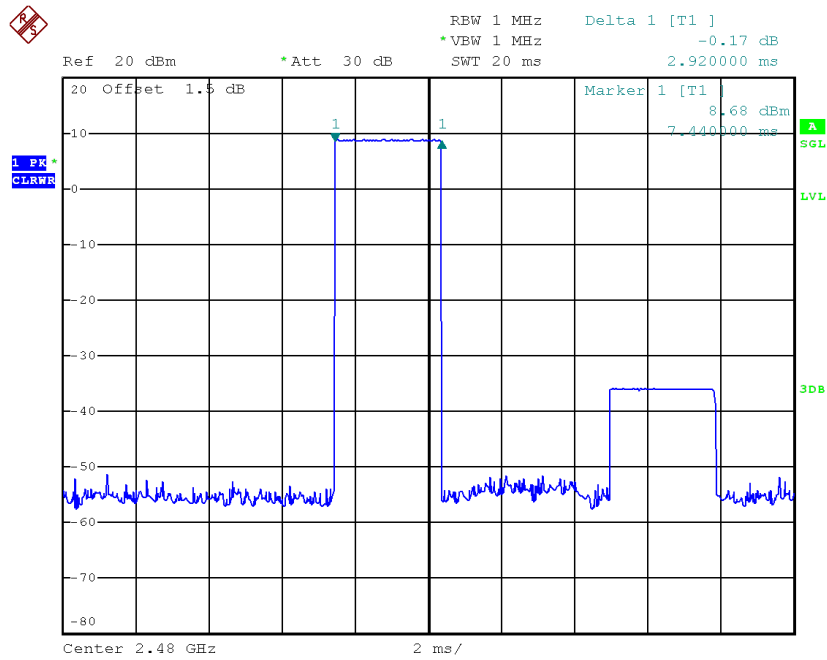
Date: 25.JUL.2017 15:36:33

CH78-DH3



Date: 25.JUL.2017 15:46:49

CH78-DH5

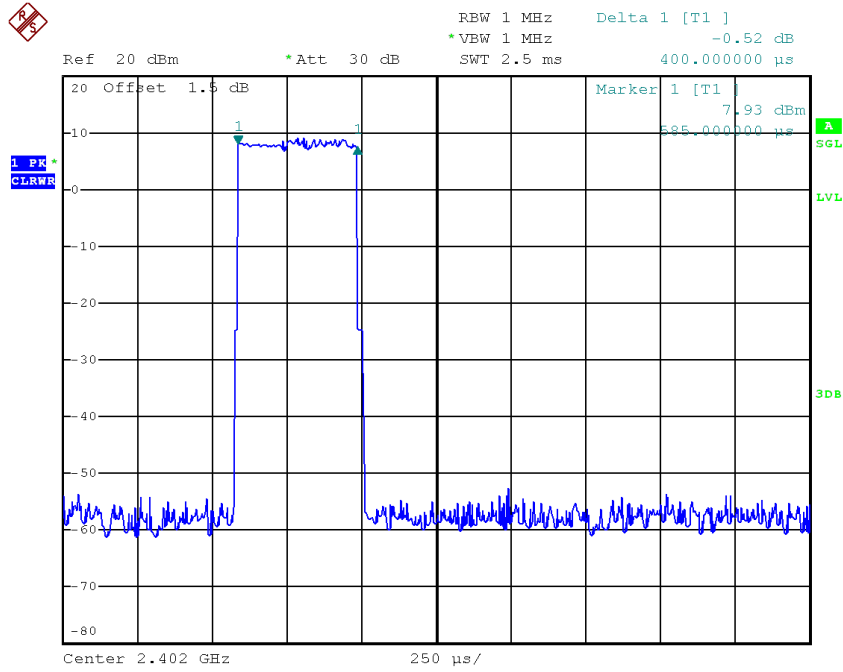


Date: 25.JUL.2017 15:48:44

Test Mode :	TX Mode_3Mbps
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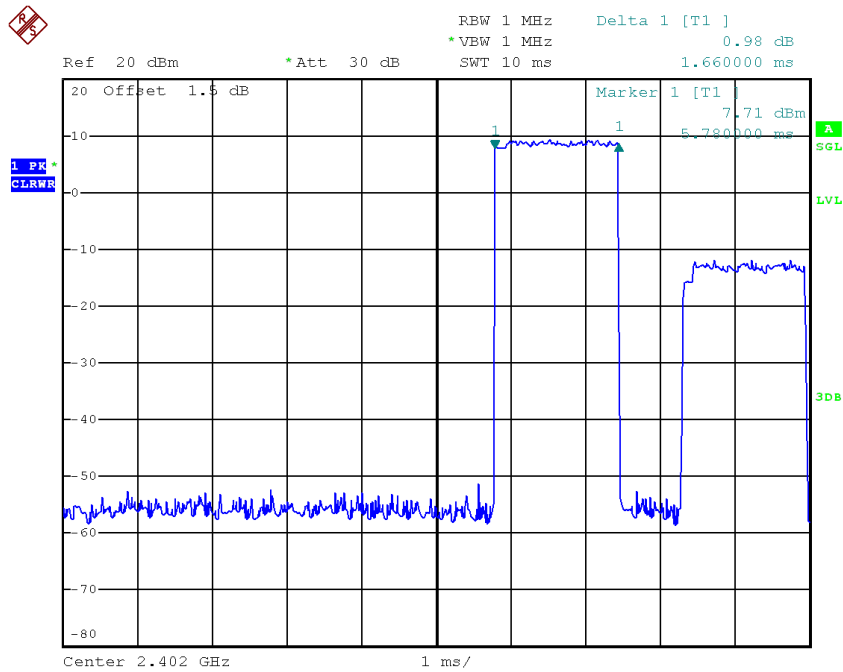
Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6600	0.2656	0.4000	Pass
DH1	2402	0.4000	0.1280	0.4000	Pass
DH5	2441	2.9200	0.3115	0.4000	Pass
DH3	2441	1.6600	0.2656	0.4000	Pass
DH1	2441	0.4000	0.1280	0.4000	Pass
DH5	2480	2.9200	0.3115	0.4000	Pass
DH3	2480	1.6600	0.2656	0.4000	Pass
DH1	2480	0.4000	0.1280	0.4000	Pass

CH00-DH1



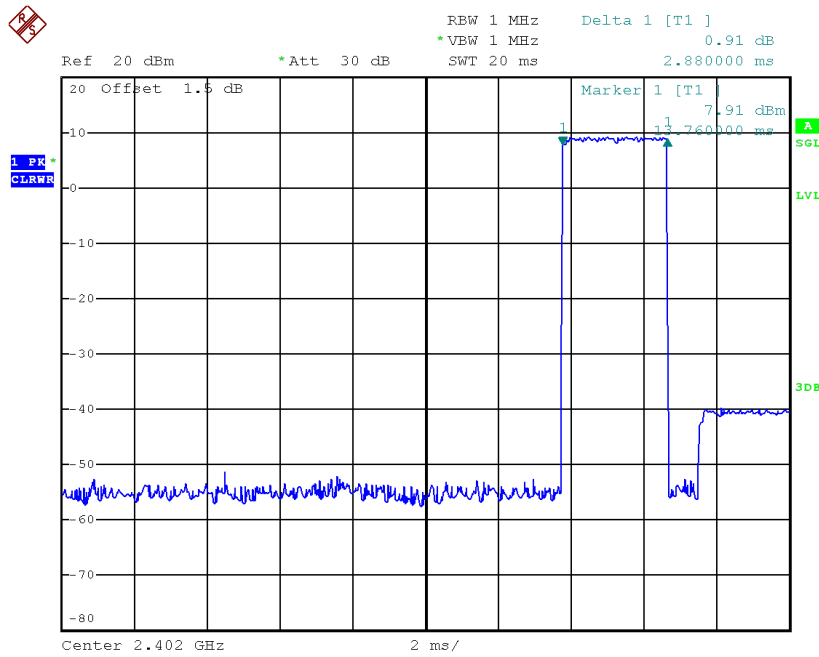
Date: 25.JUL.2017 16:27:05

CH00-DH3



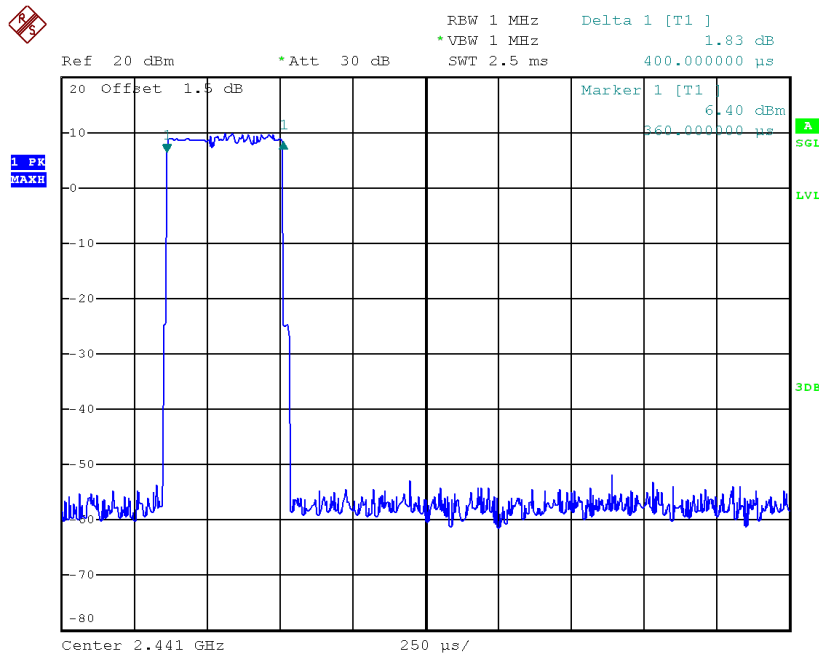
Date: 25.JUL.2017 16:32:37

CH00-DH5



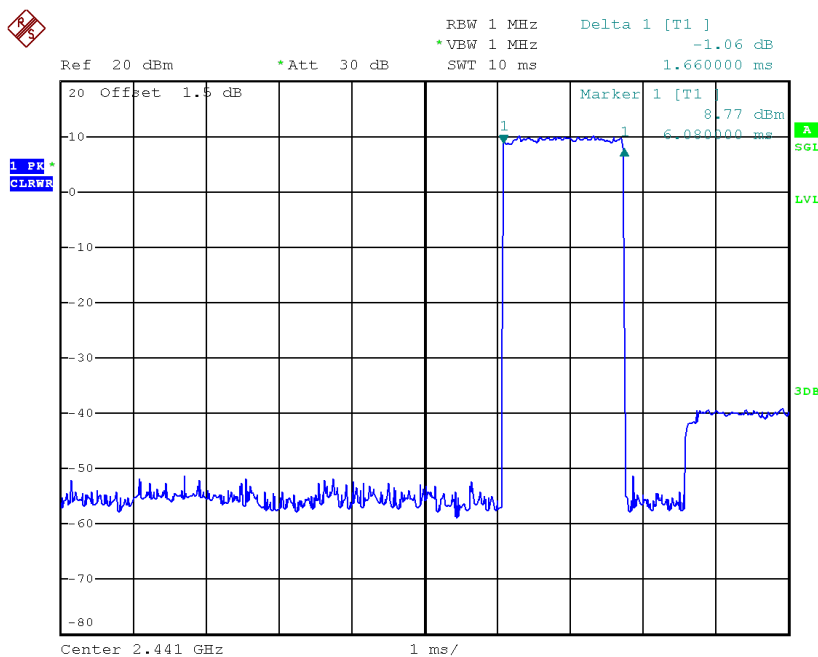
Date: 25.JUL.2017 16:35:24

CH39-DH1



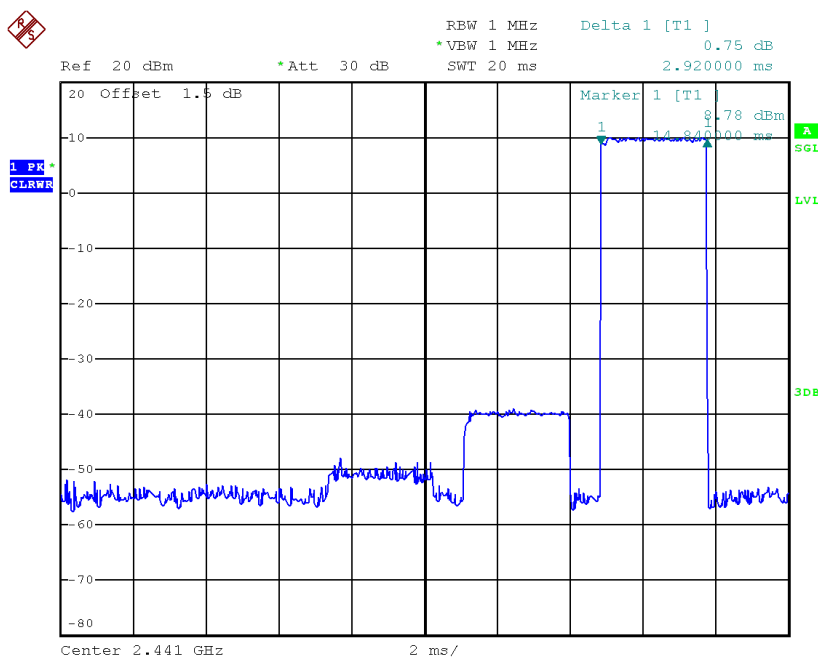
Date: 25.JUL.2017 16:28:08

CH39-DH3



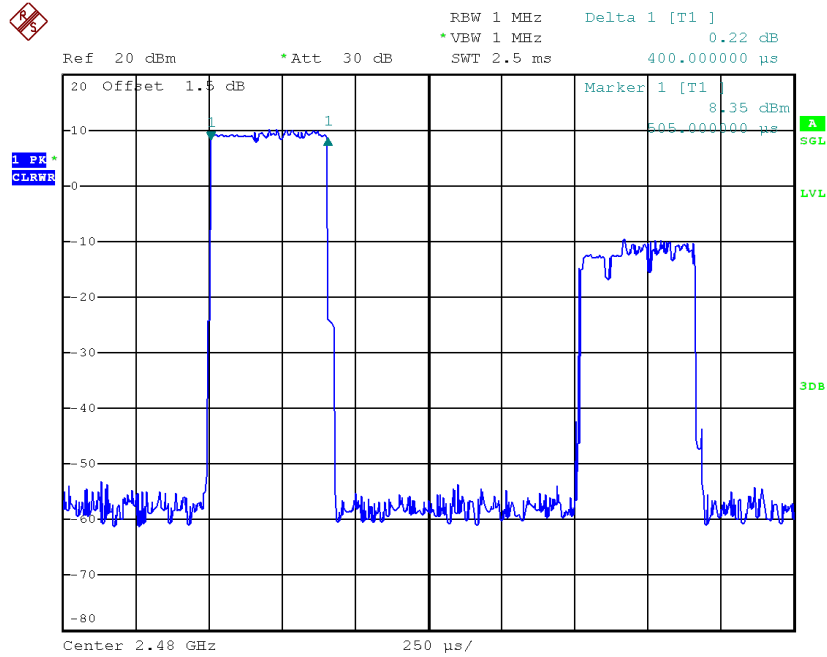
Date: 25.JUL.2017 16:33:03

CH39-DH5



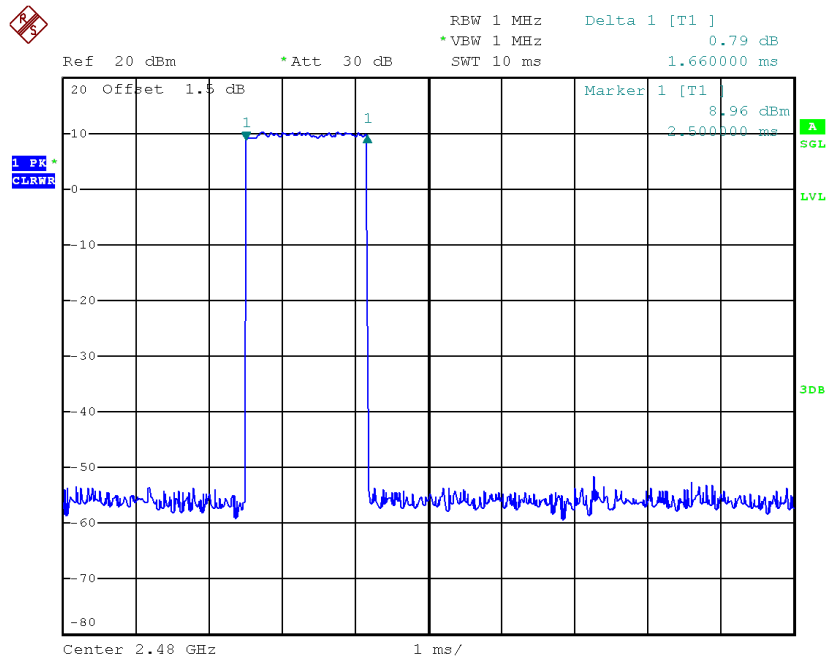
Date: 25.JUL.2017 16:34:37

CH78-DH1



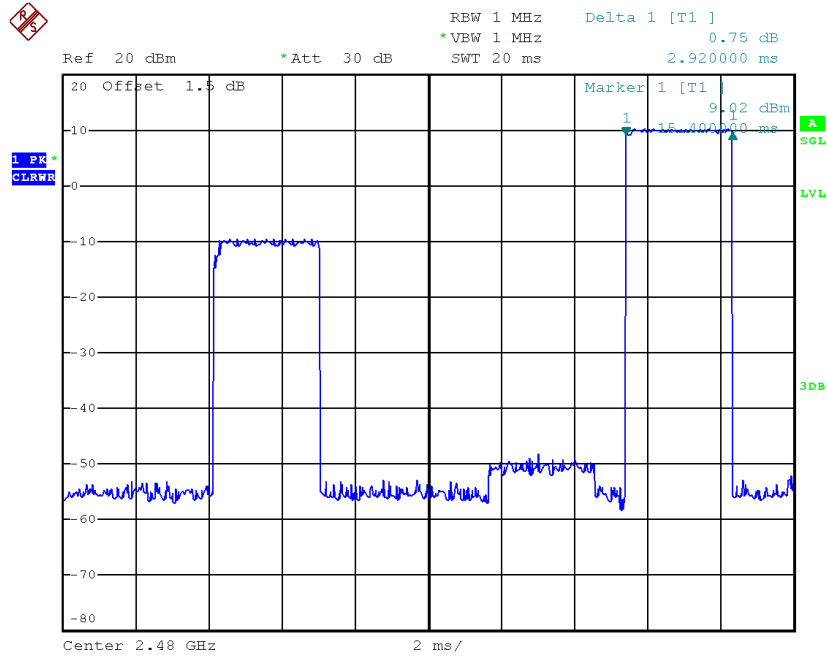
Date: 25.JUL.2017 16:31:59

CH78-DH3



Date: 25.JUL.2017 16:34:17

CH78-DH5

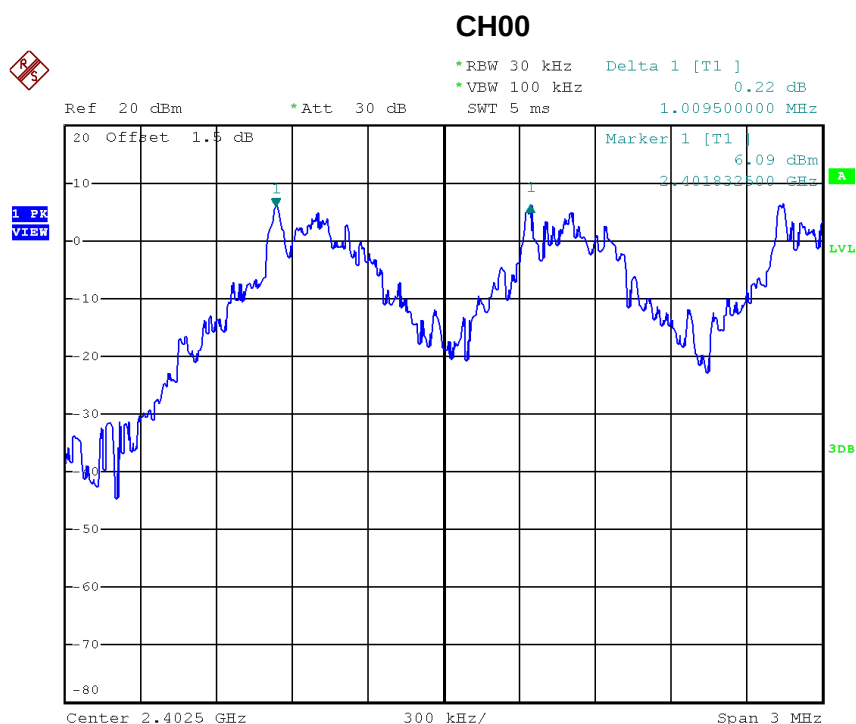


Date: 25.JUL.2017 16:35:06

APPENDIX G - HOPPING CHANNEL SEPARATION MEASUREMENT

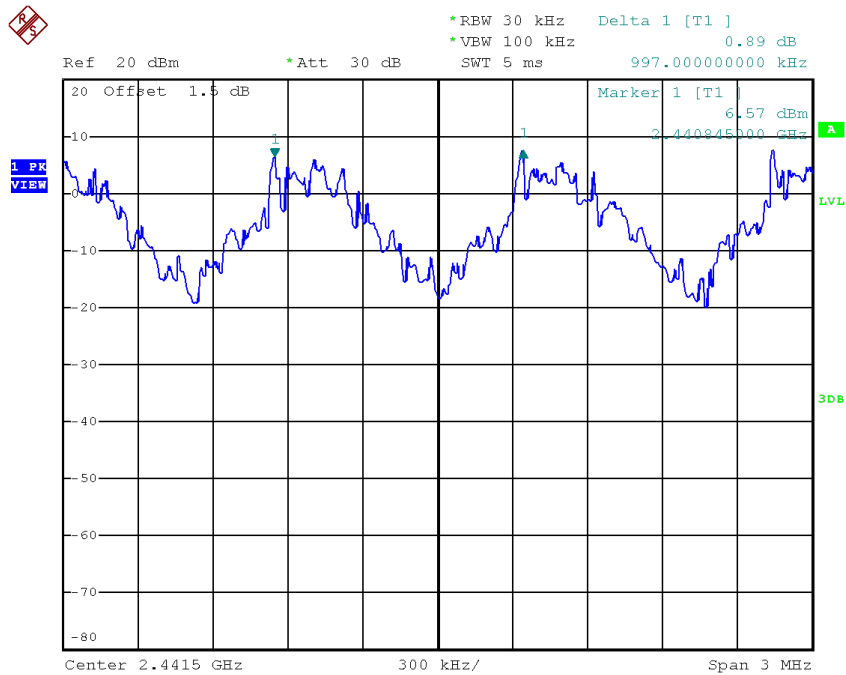
Test Mode :	Hopping on _1Mbps
-------------	-------------------

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.010	0.633	Pass
2441	0.997	0.628	Pass
2480	1.002	0.621	Pass



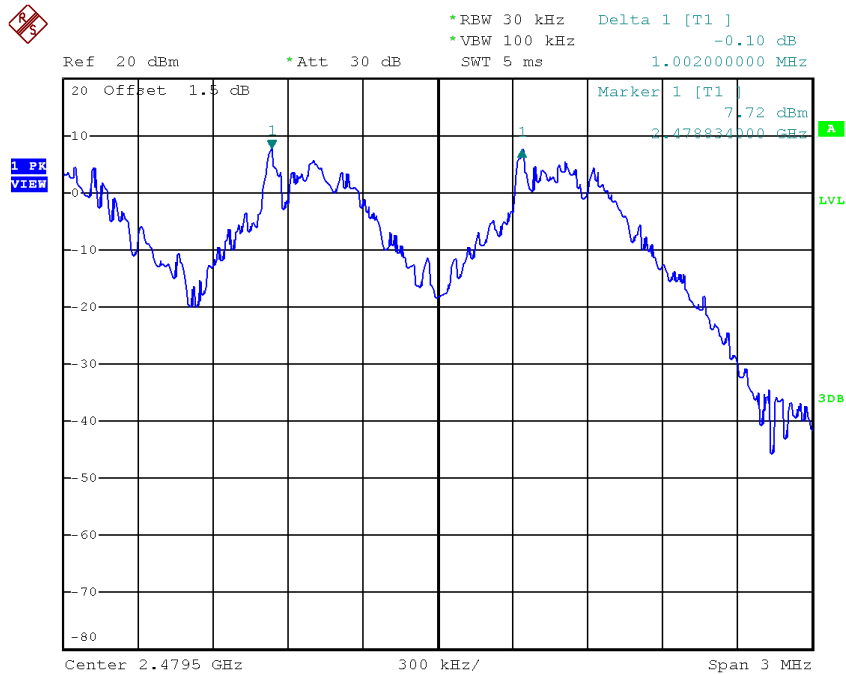
Date: 25.JUL.2017 15:37:40

CH39



Date: 25.JUL.2017 15:39:47

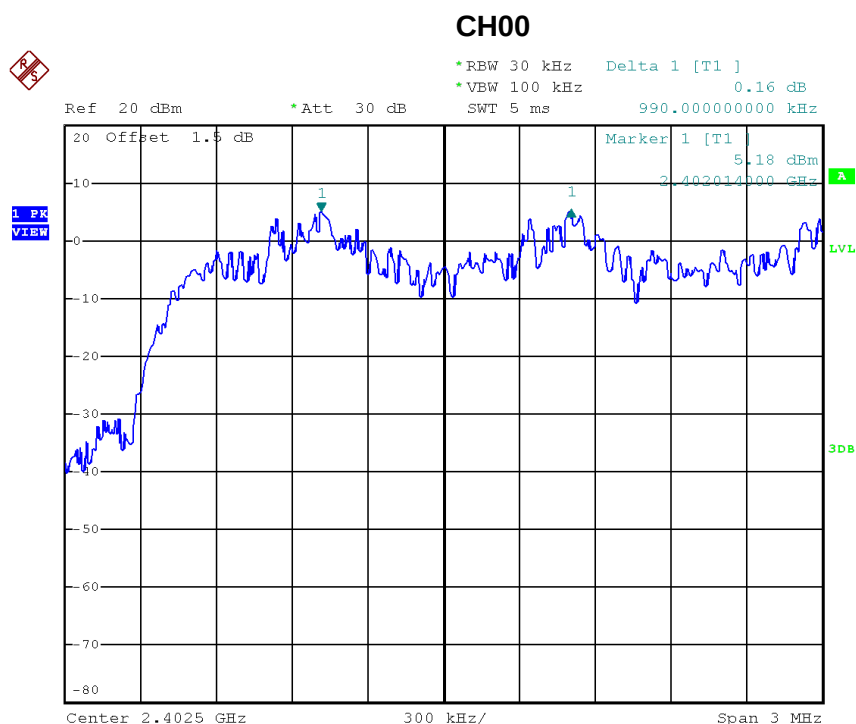
CH78



Date: 25.JUL.2017 15:40:51

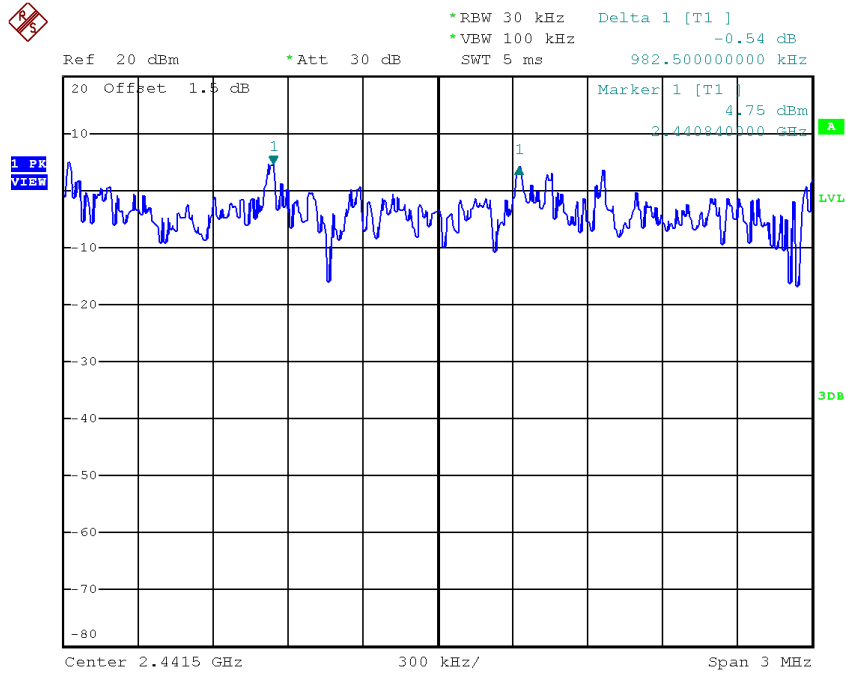
Test Mode :	Hopping on _3Mbps
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Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.990	0.881	Pass
2441	0.983	0.854	Pass
2480	1.014	0.871	Pass



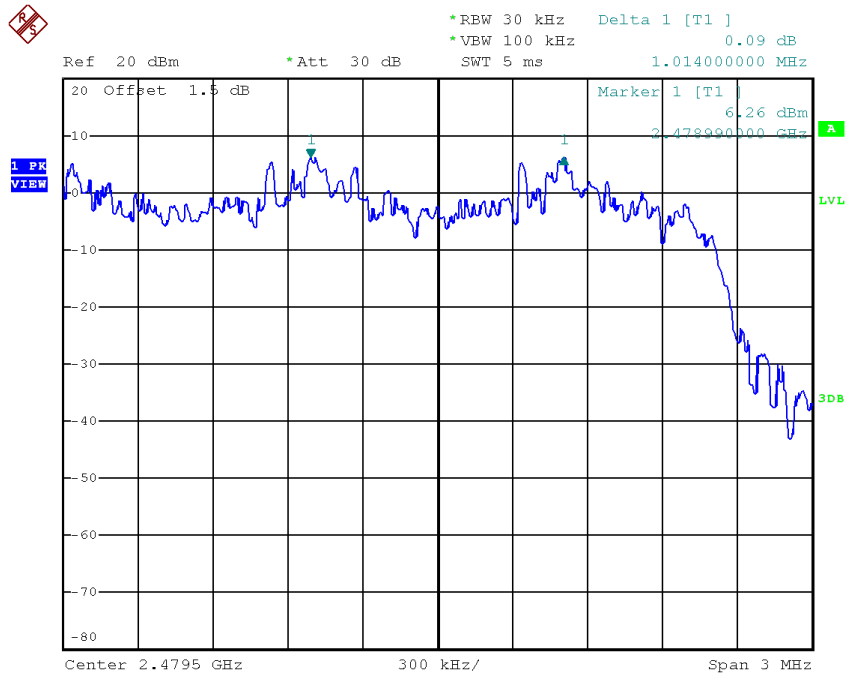
Date: 25.JUL.2017 15:56:32

CH39



Date: 25.JUL.2017 15:57:39

CH78

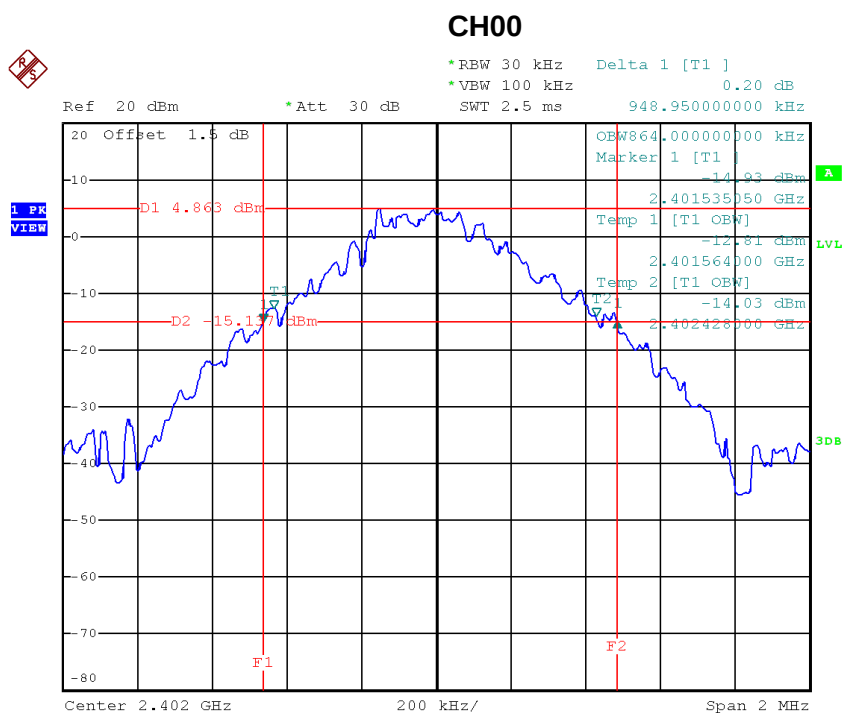


Date: 25.JUL.2017 15:58:43

APPENDIX H - BANDWIDTH

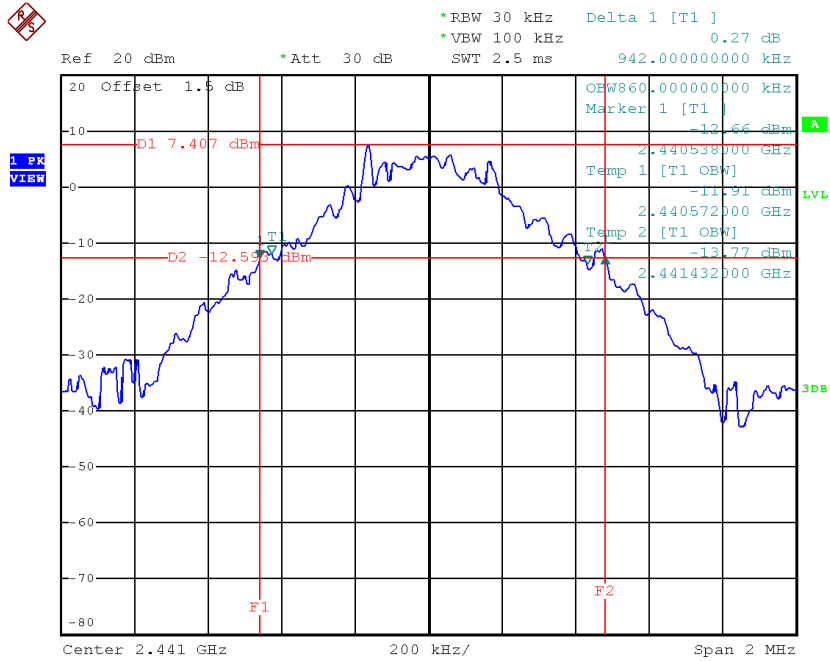
Test Mode : TX Mode _1Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.949	0.864	Pass
2441	0.942	0.860	Pass
2480	0.932	0.848	Pass



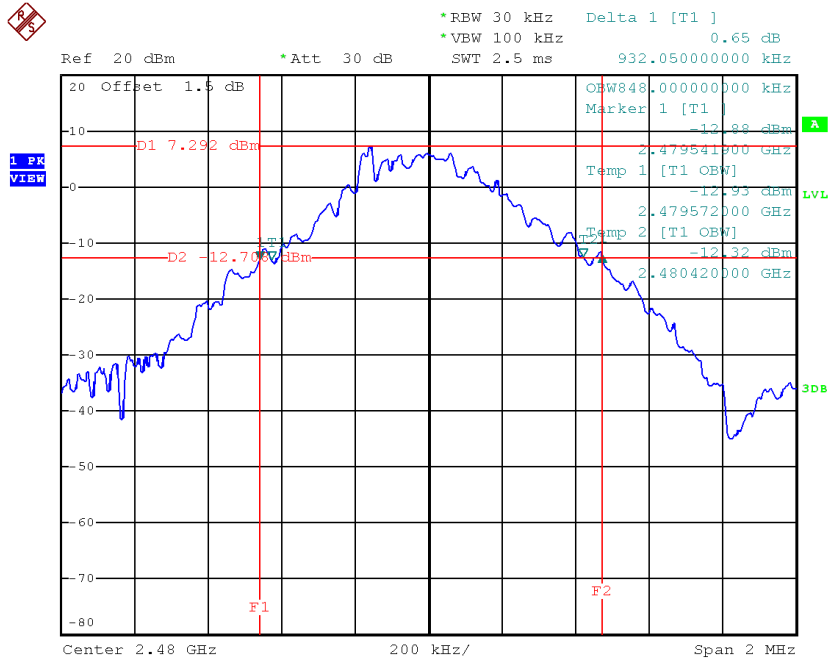
Date: 25.JUL.2017 15:29:34

CH39



Date: 25.JUL.2017 15:31:52

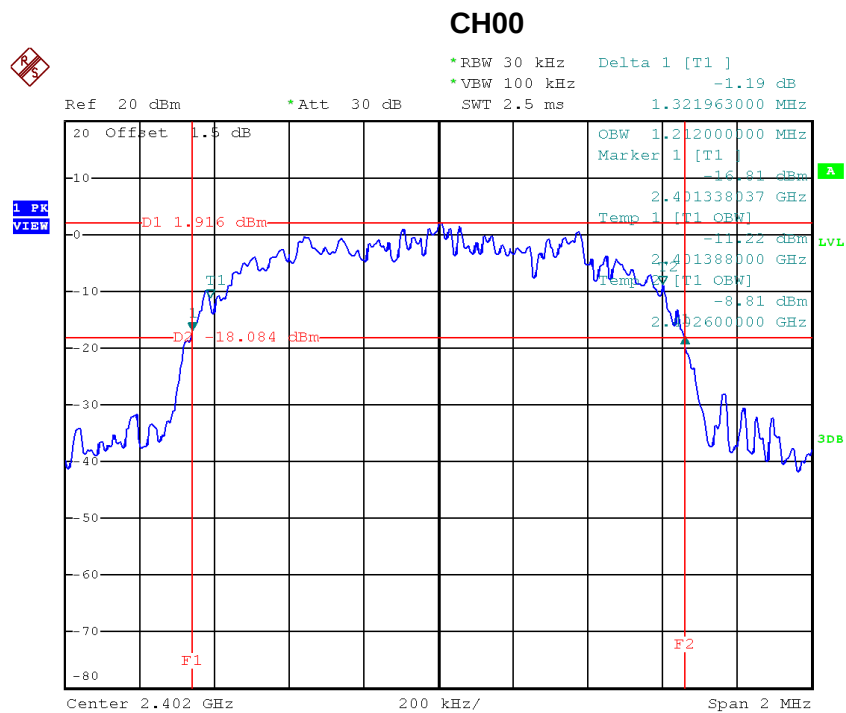
CH78



Date: 25.JUL.2017 15:32:40

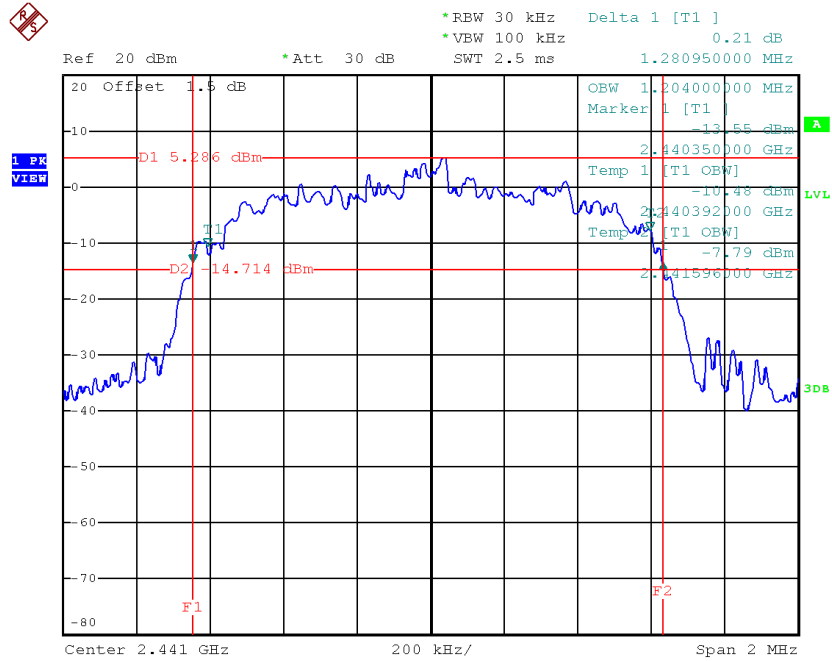
Test Mode :	TX Mode _3Mbps
-------------	----------------

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.322	1.212	Pass
2441	1.281	1.204	Pass
2480	1.306	1.192	Pass



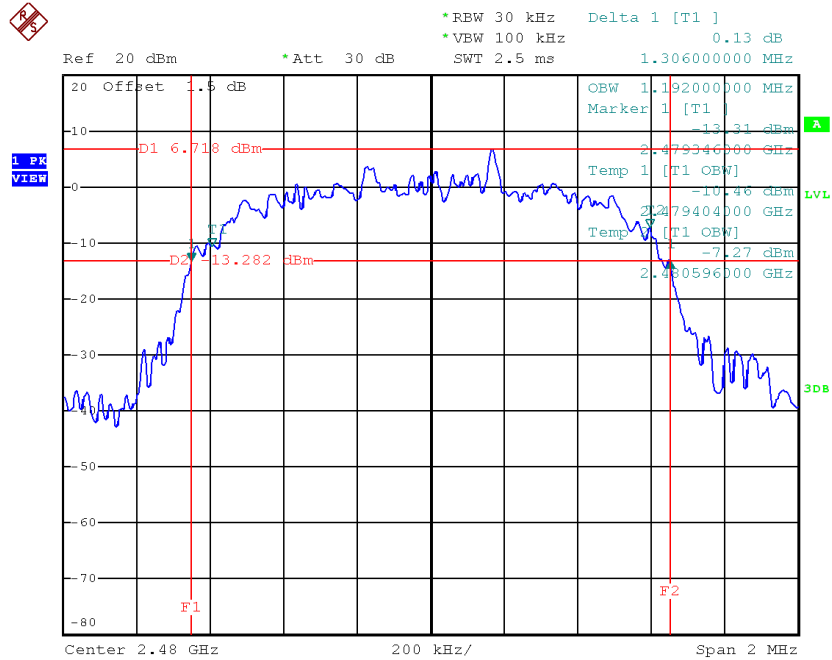
Date: 25.JUL.2017 15:49:53

CH39



Date: 25.JUL.2017 15:51:34

CH78

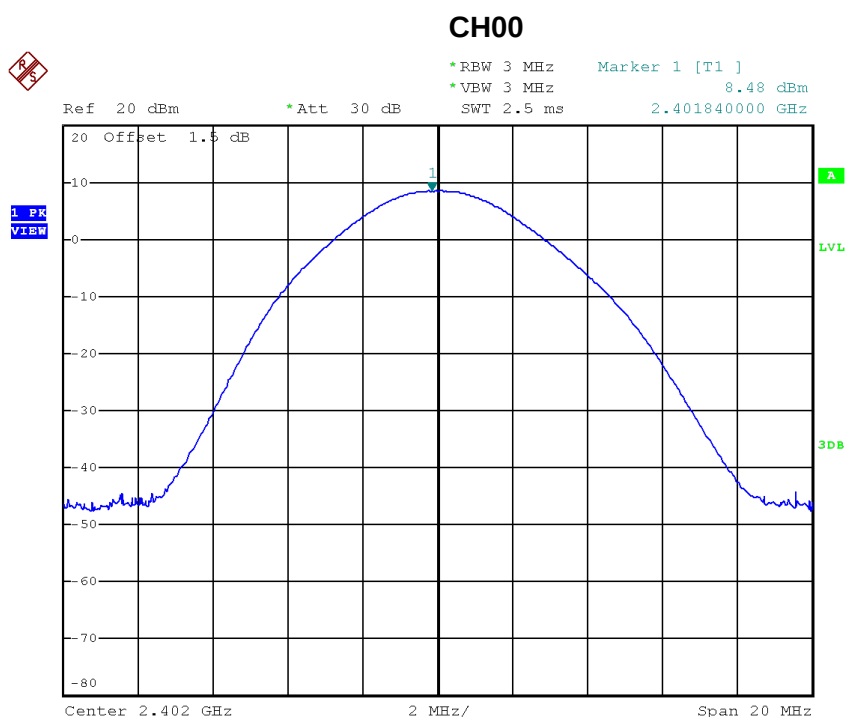


Date: 25.JUL.2017 15:52:18

APPENDIX I - PEAK OUTPUT POWER

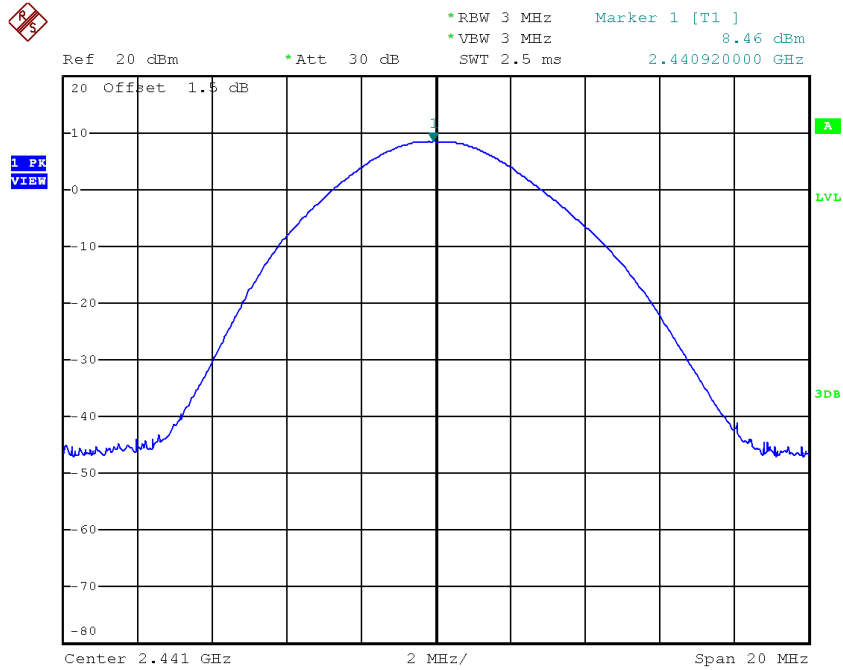
Test Mode :	TX Mode _1Mbps
-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	8.48	0.0070	30.00	1.00	Pass
2441	8.46	0.0070	30.00	1.00	Pass
2480	8.71	0.0074	30.00	1.00	Pass



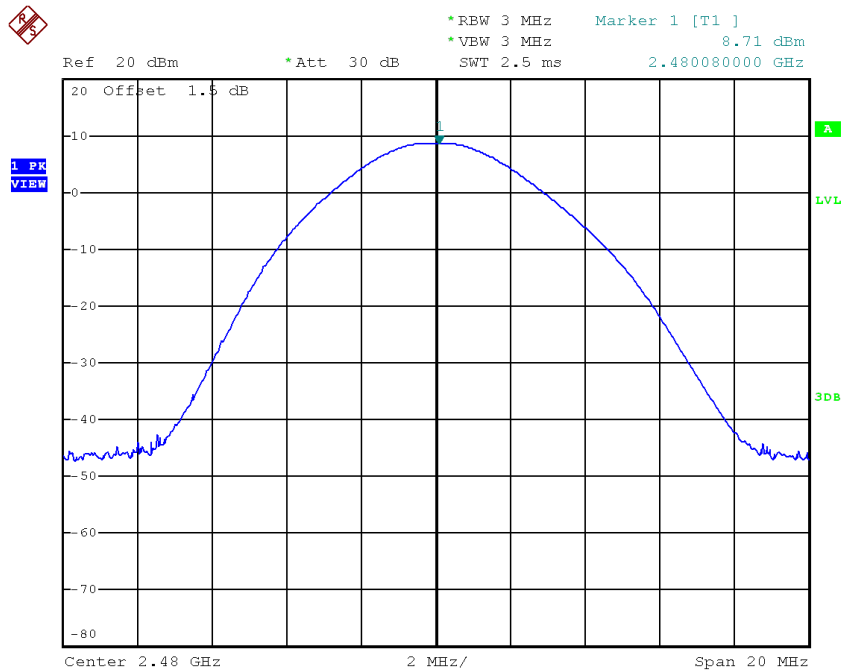
Date: 26.JUL.2017 09:47:23

CH39



Date: 25.JUL.2017 15:31:58

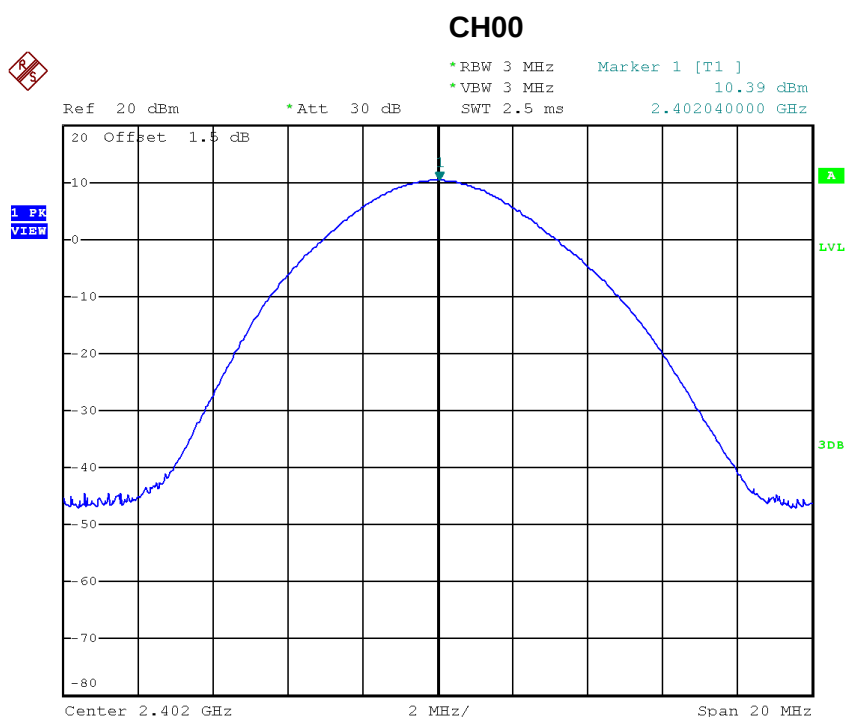
CH78



Date: 25.JUL.2017 15:33:16

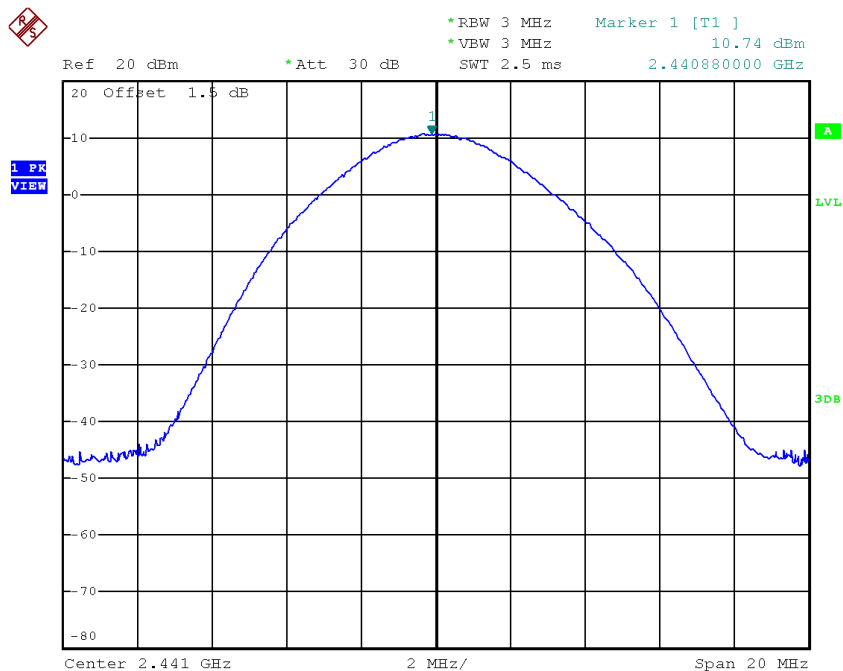
Test Mode :	TX Mode _3Mbps
-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	10.39	0.0109	30.00	1.00	Pass
2441	10.74	0.0119	30.00	1.00	Pass
2480	10.90	0.0123	30.00	1.00	Pass



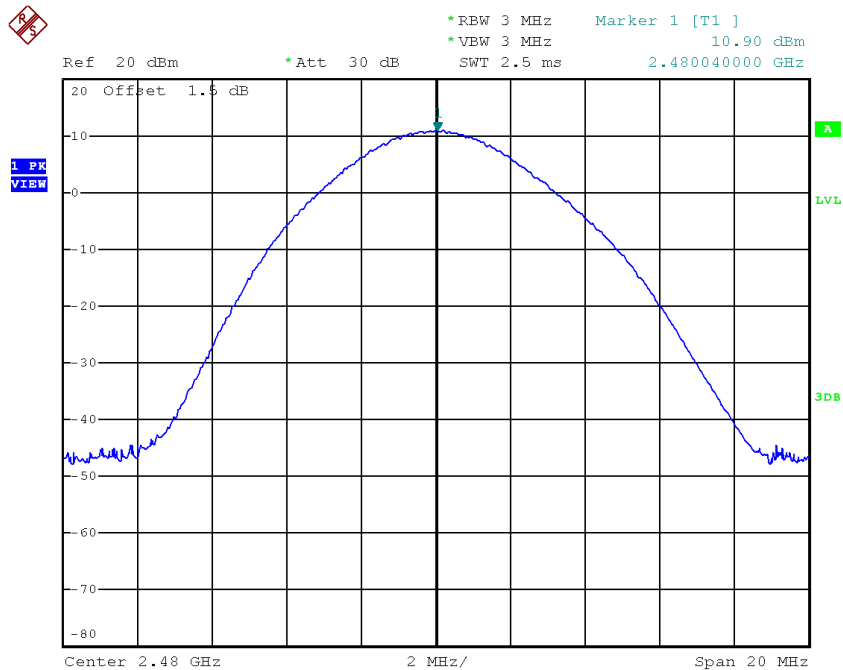
Date: 26.JUL.2017 09:48:19

CH39



Date: 25.JUL.2017 15:51:41

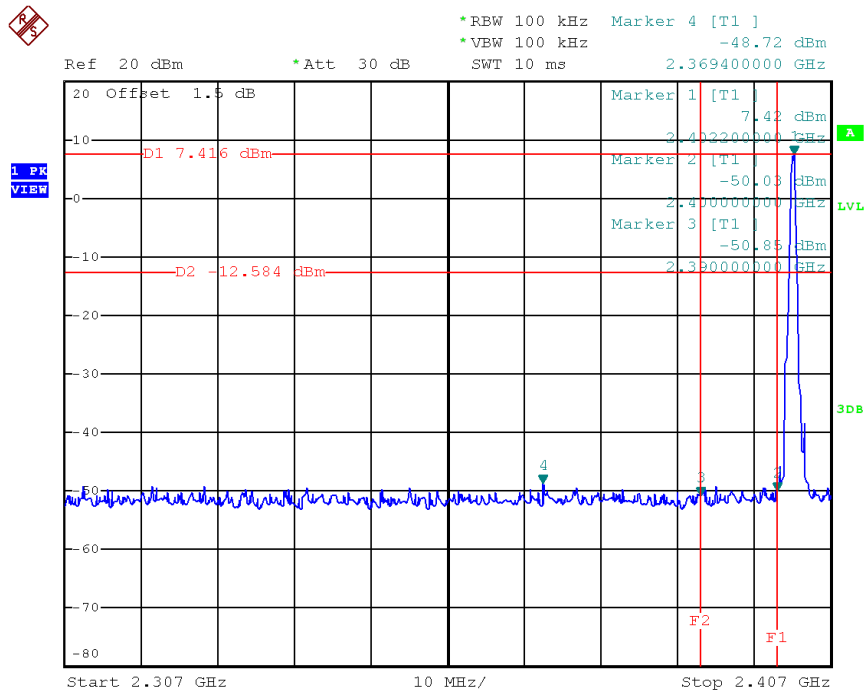
CH78



Date: 25.JUL.2017 15:52:54

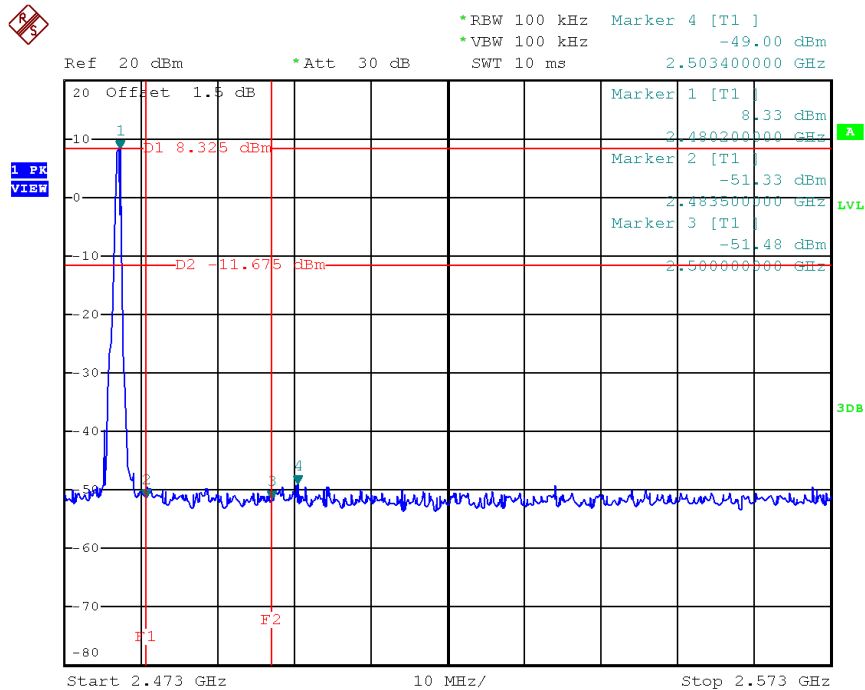
APPENDIX J - ANTENNA CONDUCTED SPURIOUS EMISSION

CH00 (Lower) _1Mbps



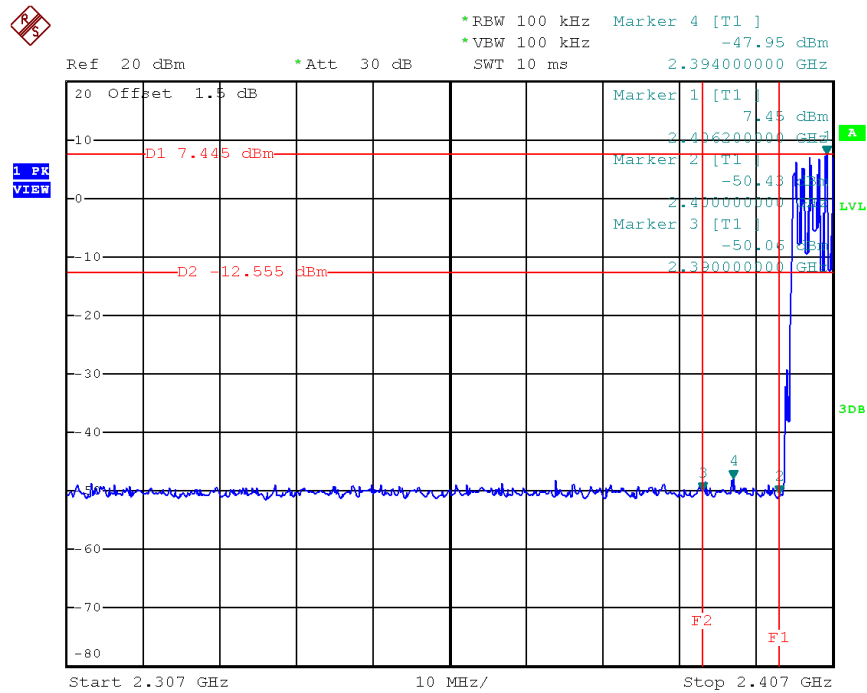
Date: 25.JUL.2017 15:29:10

CH78 (Upper) _1Mbps



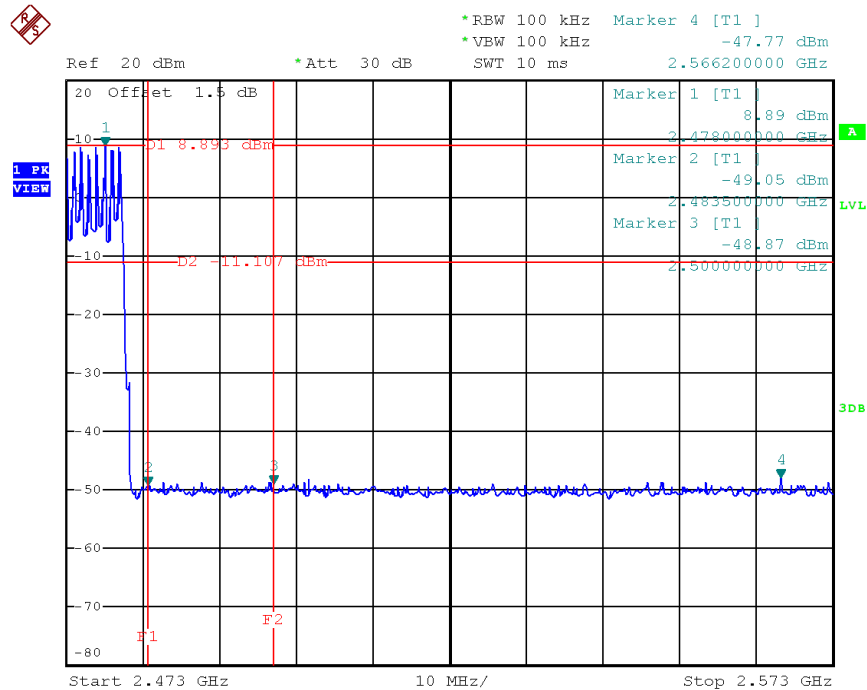
Date: 25.JUL.2017 15:32:16

CH00 Hopping on mode (Lower)_1Mbps



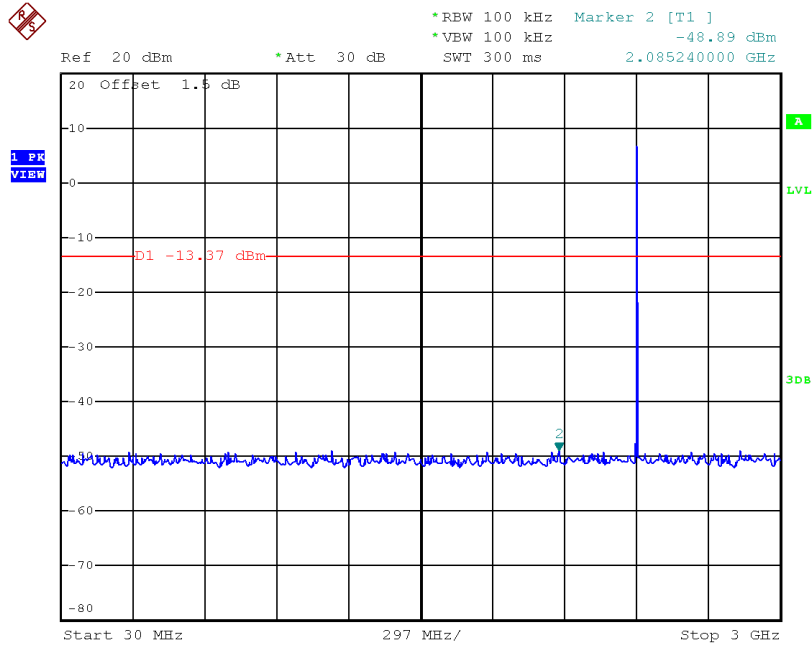
Date: 25.JUL.2017 15:43:13

CH78 Hopping on mode (Upper)_1Mbps

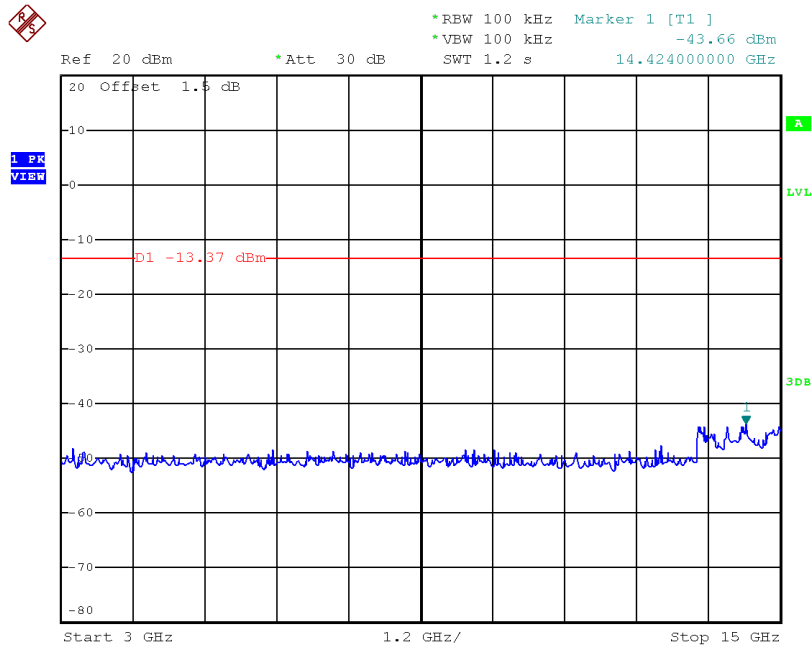


Date: 25.JUL.2017 15:45:56

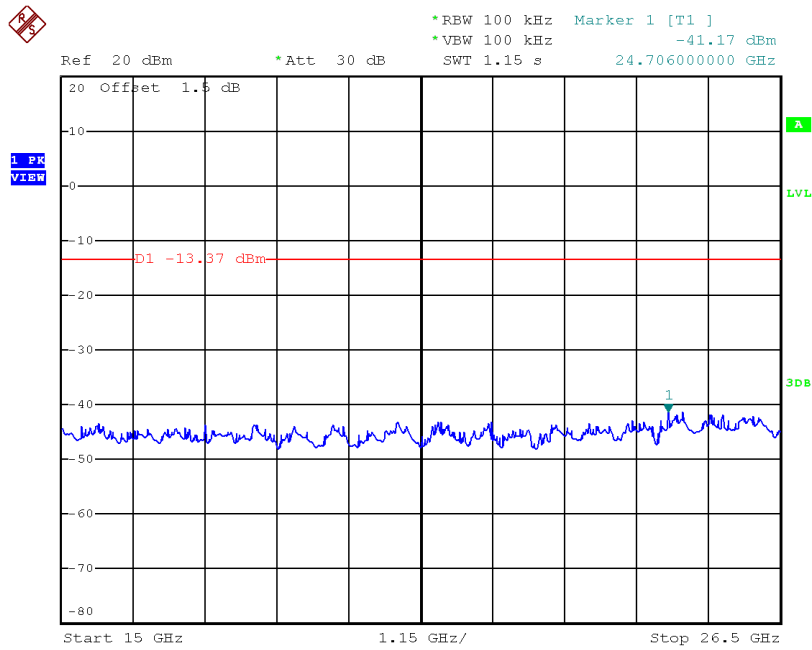
CH00 (10 Harmonic of the frequency) _1Mbps



Date: 25.JUL.2017 15:29:48

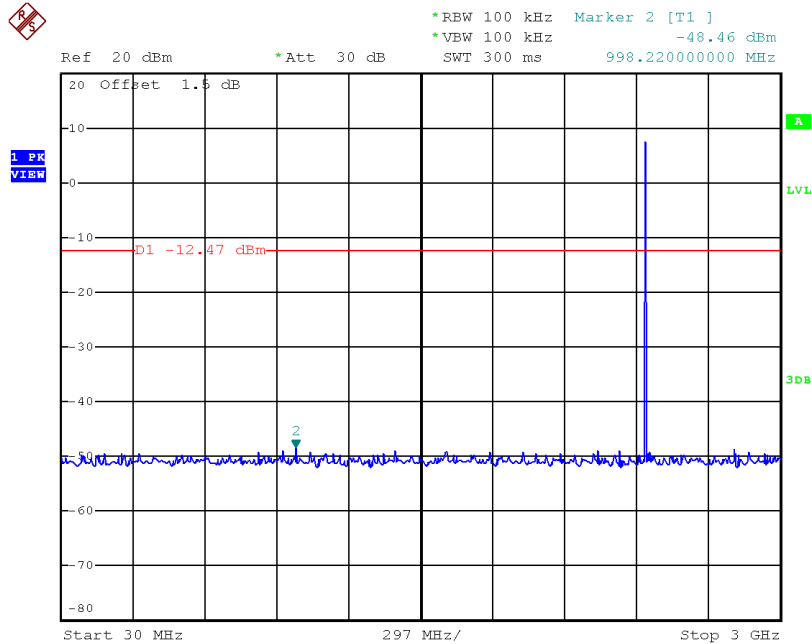


Date: 25.JUL.2017 15:29:56

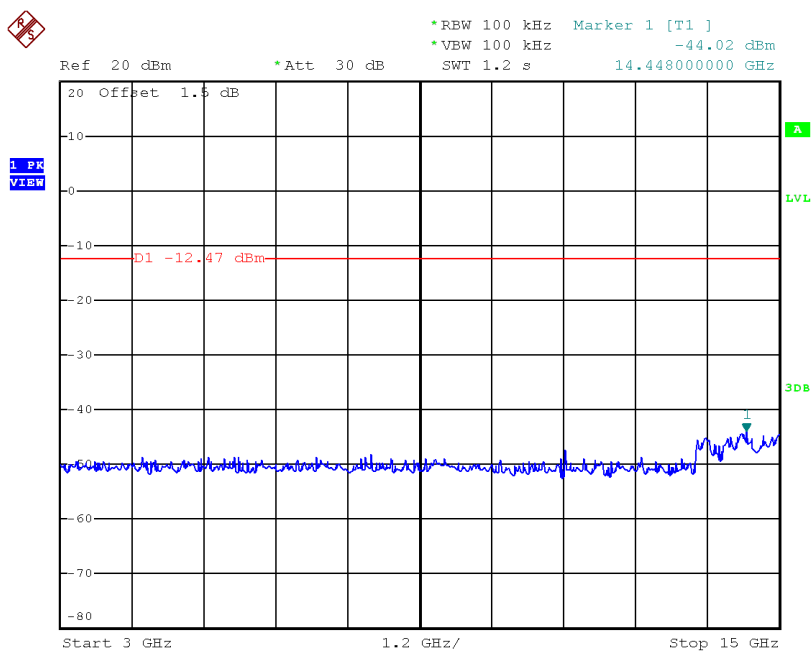


Date: 25.JUL.2017 15:30:04

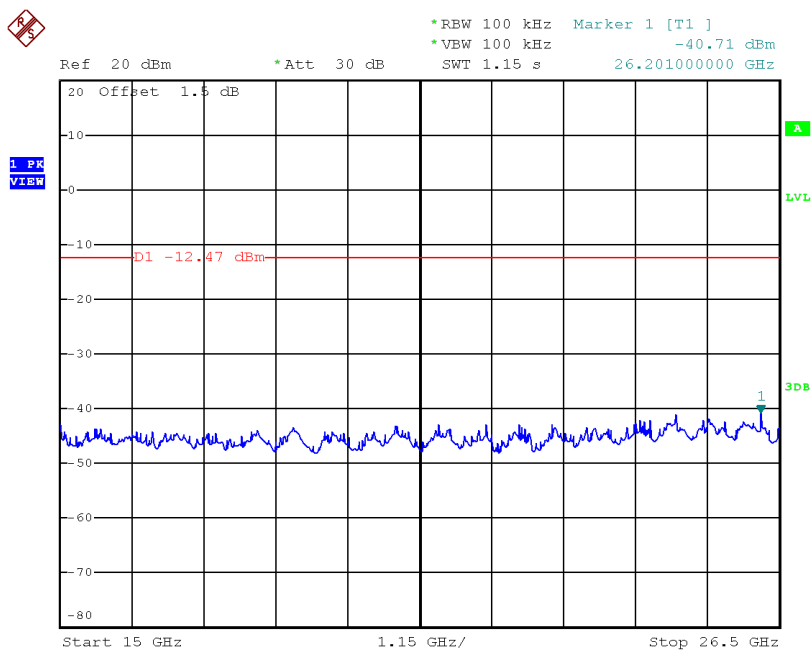
CH39 (10 Harmonic of the frequency) _1Mbps



Date: 25.JUL.2017 15:31:12

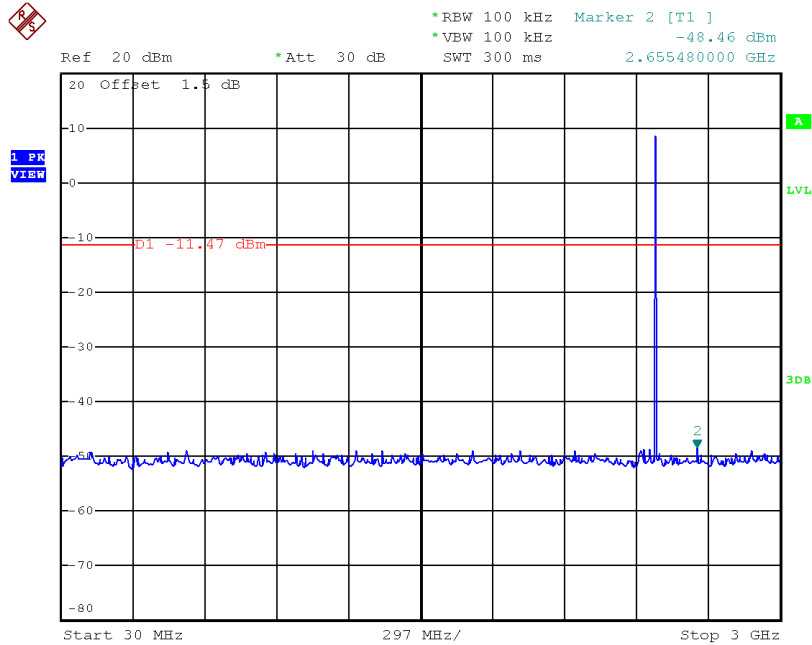


Date: 25.JUL.2017 15:31:20

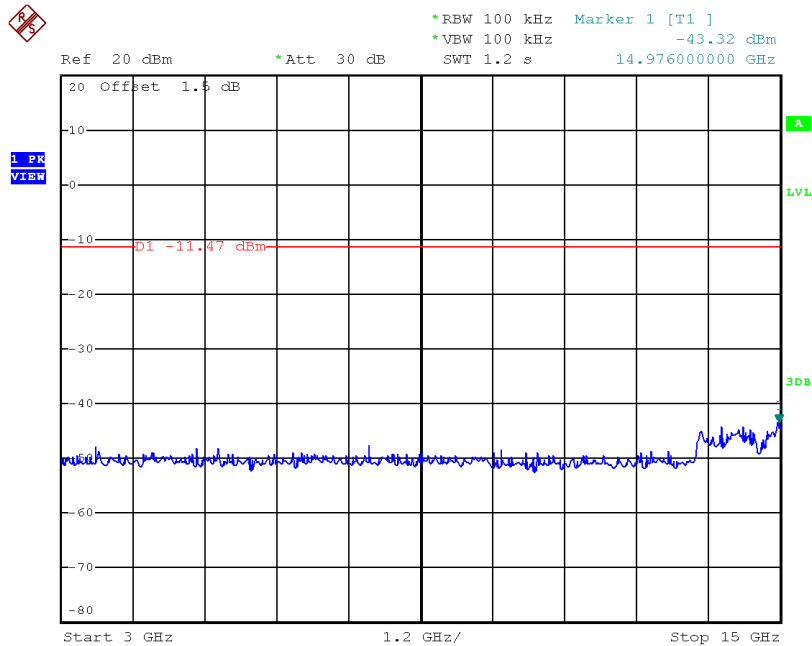


Date: 25.JUL.2017 15:31:28

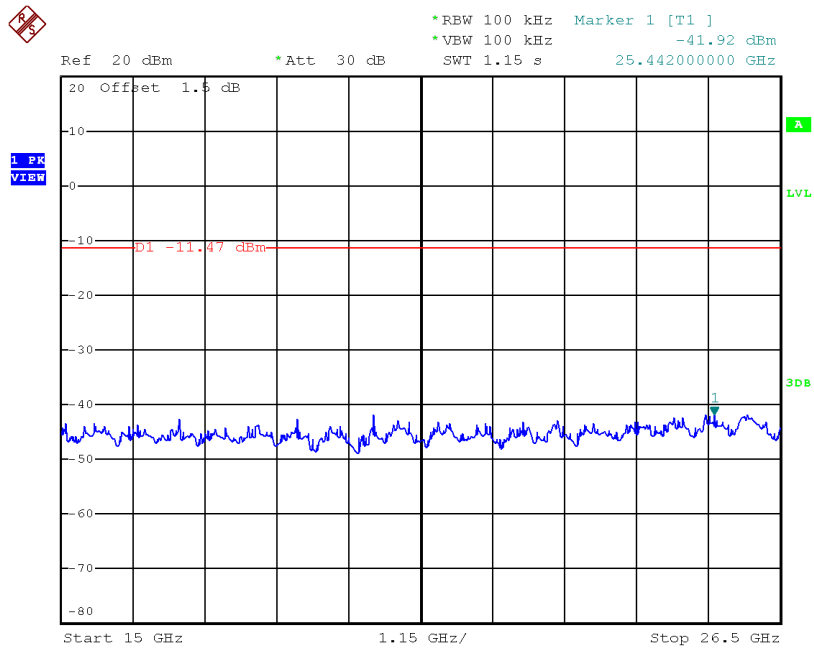
CH78 (10 Harmonic of the frequency) _1Mbps



Date: 25.JUL.2017 15:32:54

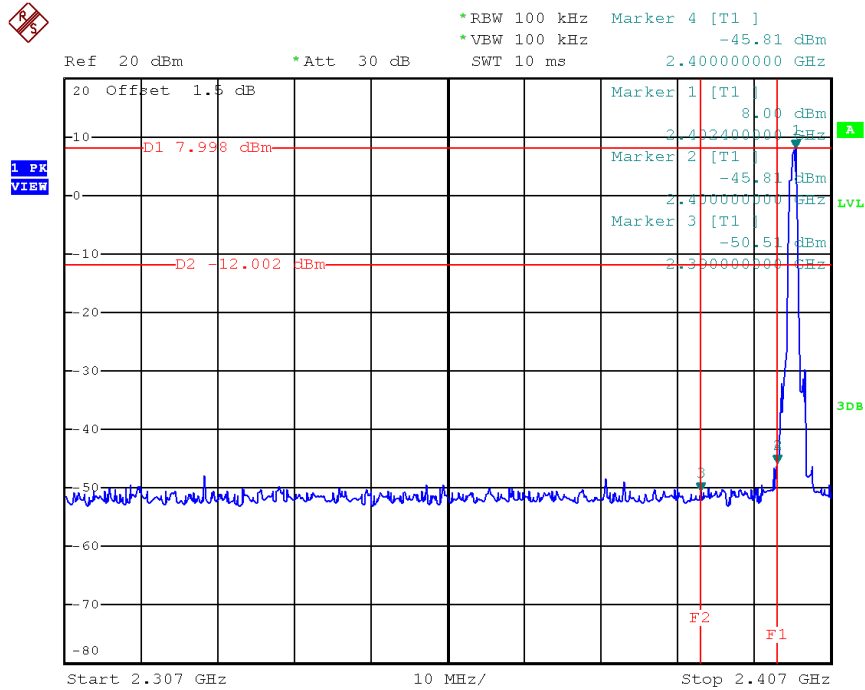


Date: 25.JUL.2017 15:33:02



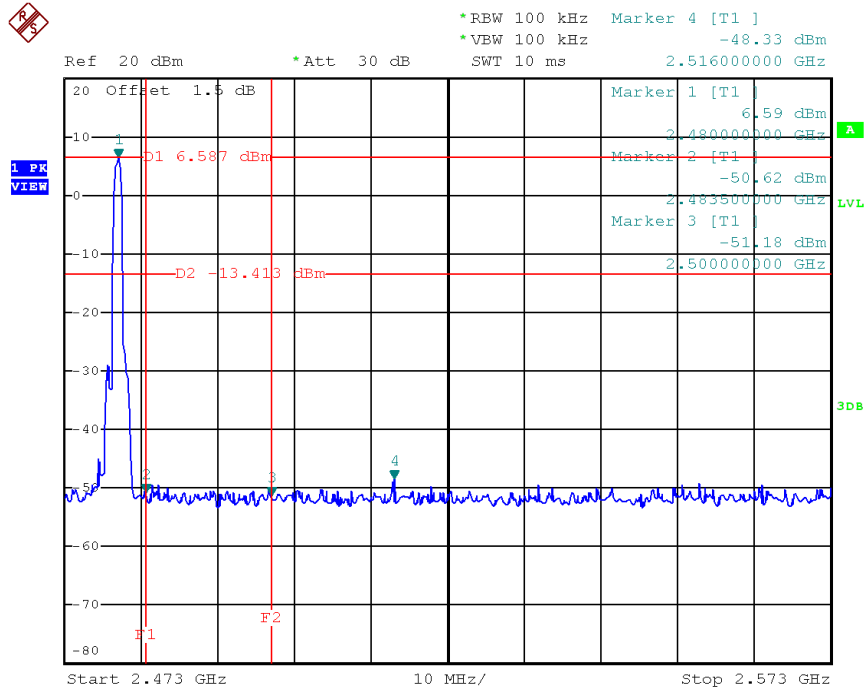
Date: 25.JUL.2017 15:33:10

CH00 (Lower) _3Mbps



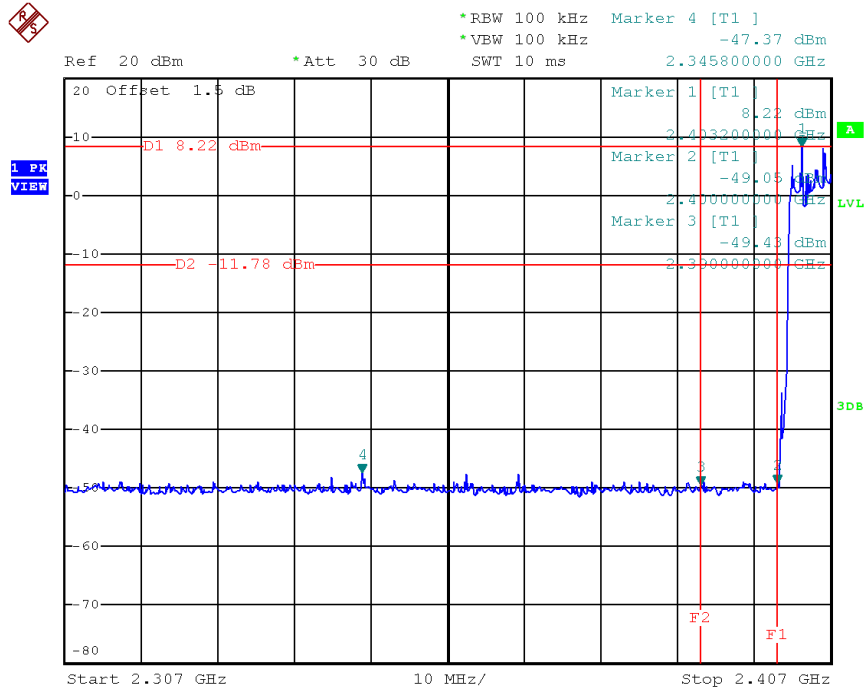
Date: 25.JUL.2017 15:49:35

CH78 (Upper) _3Mbps



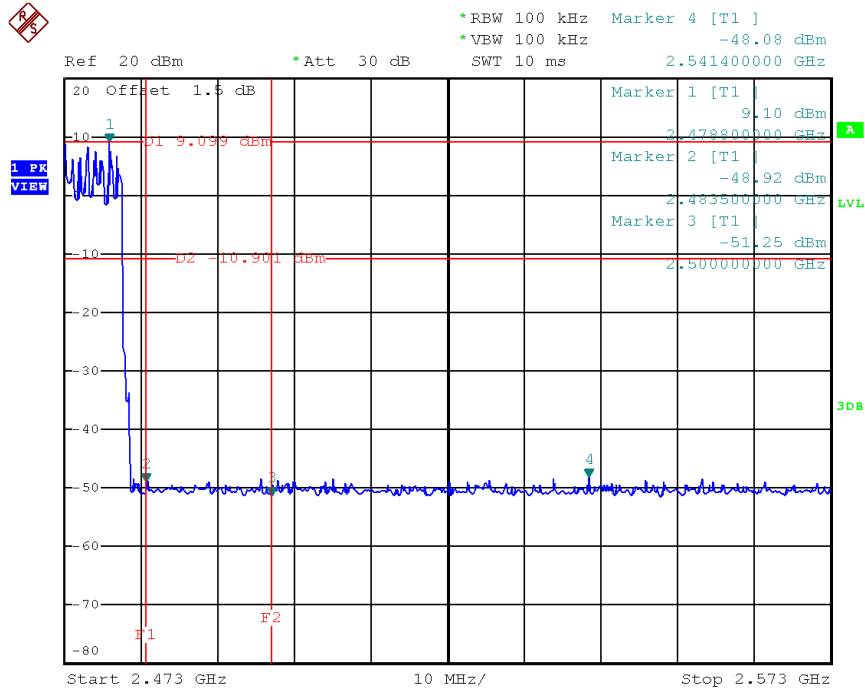
Date: 25.JUL.2017 15:51:59

CH00 Hopping on mode (Lower)_3Mbps



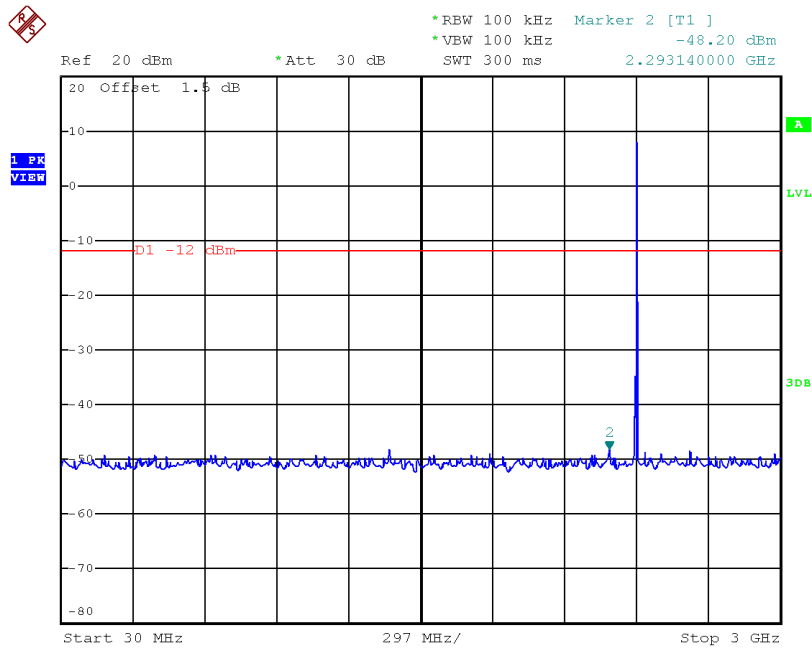
Date: 25.JUL.2017 16:01:05

CH78 Hopping on mode (Upper)_3Mbps

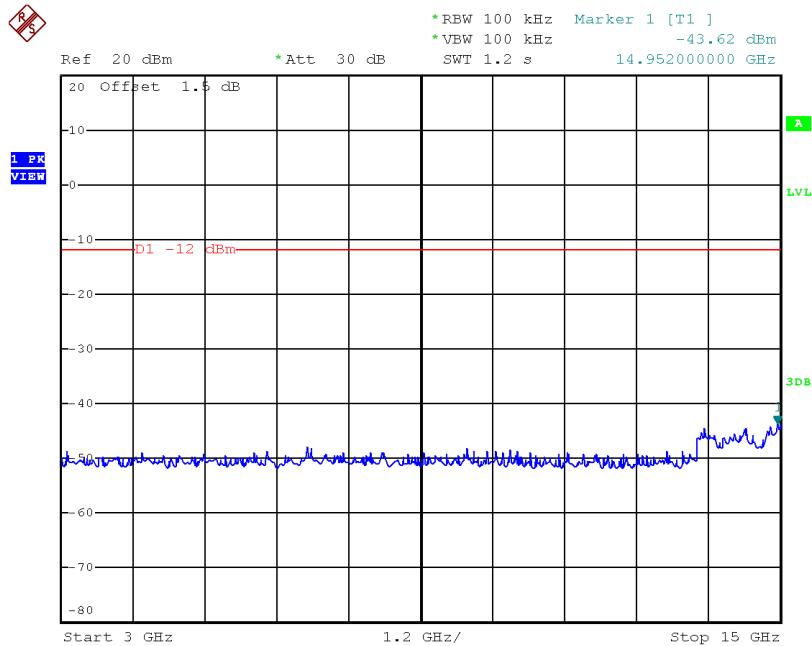


Date: 25.JUL.2017 16:01:40

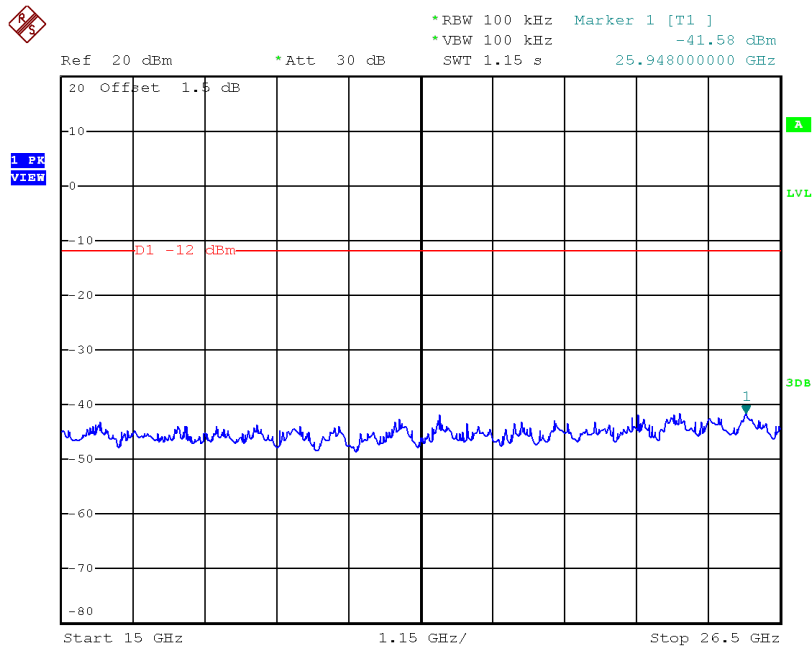
CH00 (10 Harmonic of the frequency) _3Mbps



Date: 25.JUL.2017 15:50:07

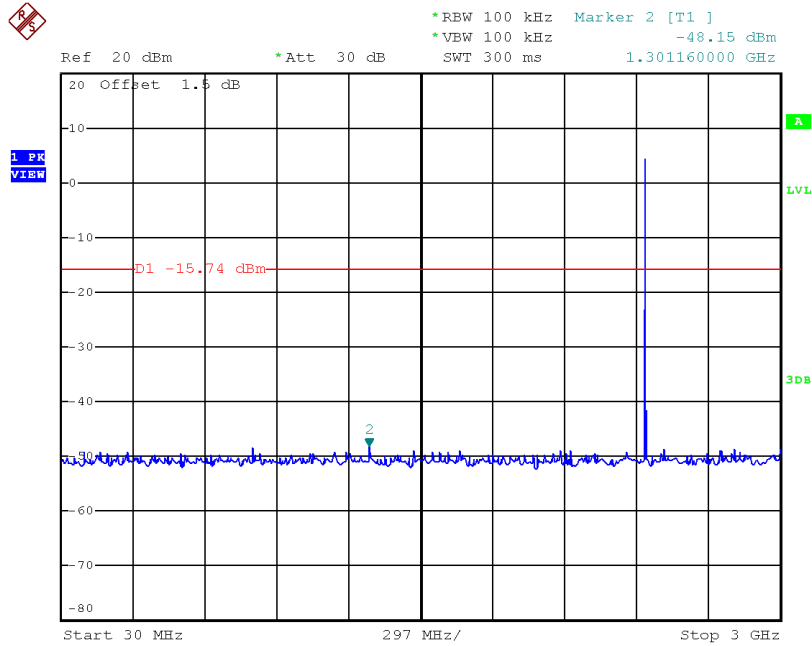


Date: 25.JUL.2017 15:50:14

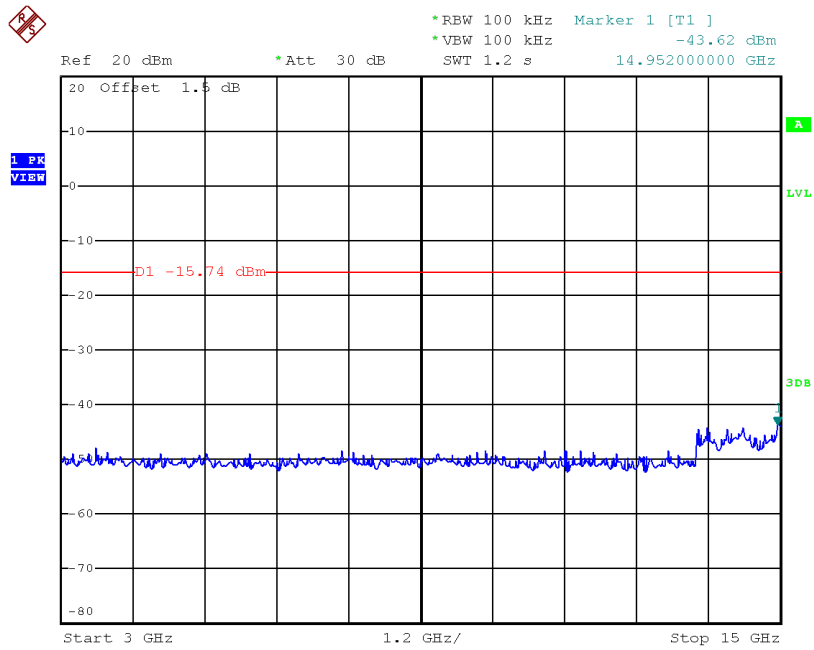


Date: 25.JUL.2017 15:50:22

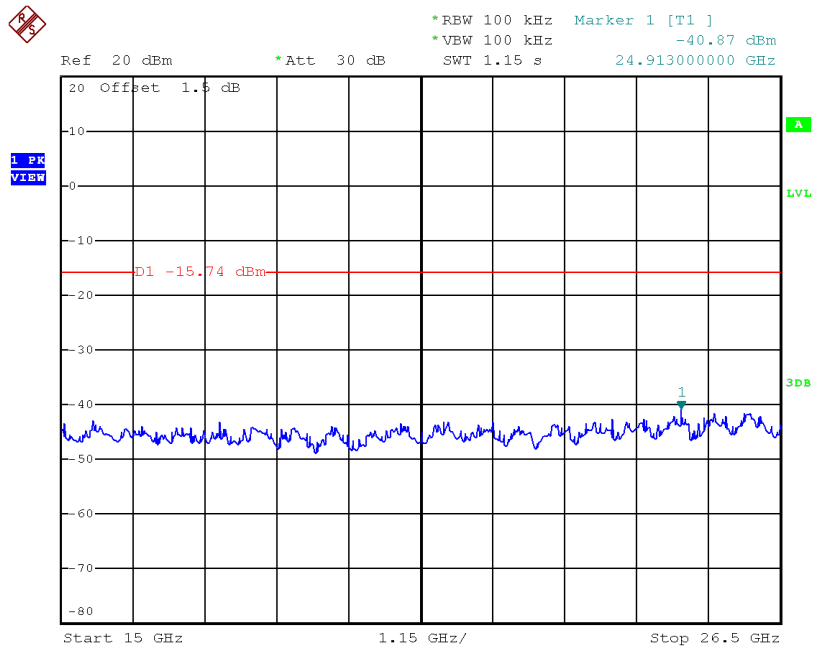
CH39 (10 Harmonic of the frequency) _3Mbps



Date: 25.JUL.2017 15:50:59

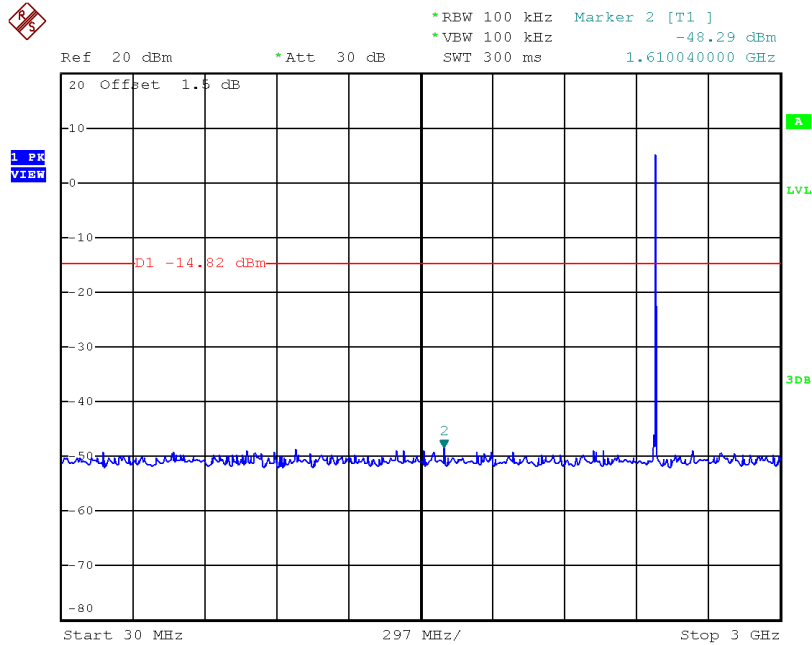


Date: 25.JUL.2017 15:51:07

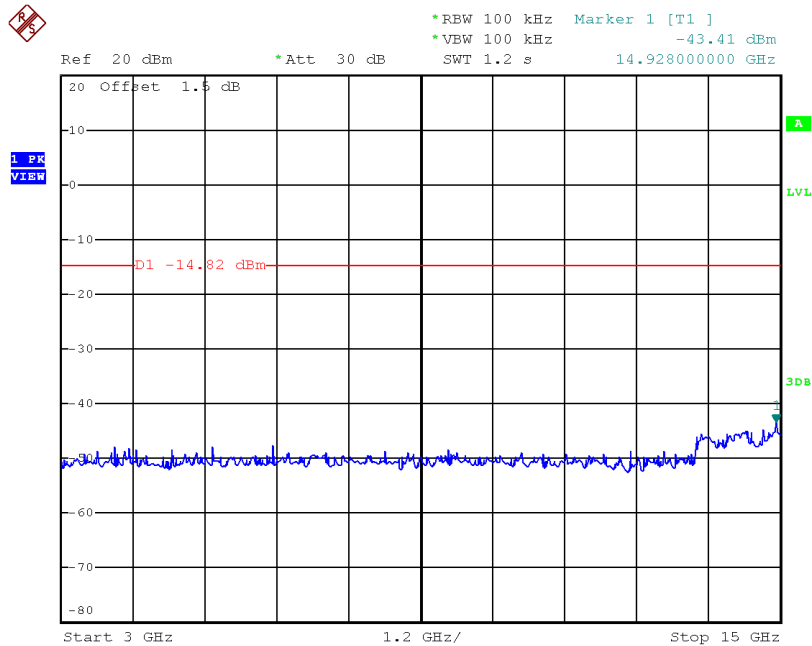


Date: 25.JUL.2017 15:51:15

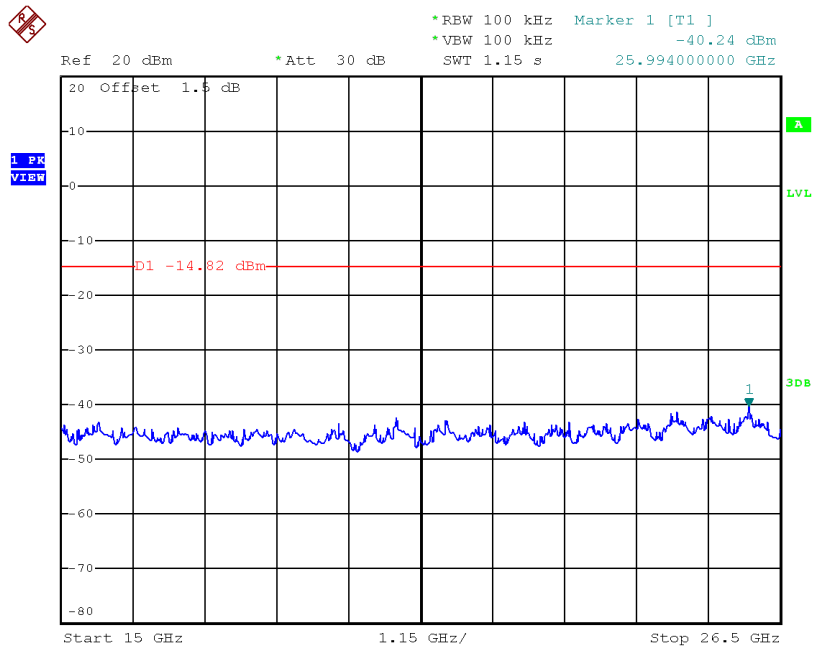
CH78 (10 Harmonic of the frequency) _3Mbps



Date: 25.JUL.2017 15:52:32



Date: 25.JUL.2017 15:52:39



Date: 25.JUL.2017 15:52:47