

FCC Radio Test Report

FCC ID: QISCMR-AL19

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

Project No. : 1712C036
Equipment : Tablet
Model Name : CMR-AL19
Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

Date of Receipt : Dec, 02, 2017
Date of Test : Dec, 02, 2017 ~ Jan, 17, 2018
Issued Date : Jan, 18, 2018
Tested by : BTL Inc.

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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-1-1712C036	Original Issue.	Jan, 18, 2018

1. CERTIFICATION

Equipment : Tablet
Brand Name : HUAWEI
Model Name : CMR-AL19
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 : Dec, 02, 2017 ~ Jan, 17, 2018
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-1-1712C036) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test result 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: 854385

BTL's designation number for FCC: CN5020

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	Tablet	
Brand Name	HUAWEI	
Model Name	CMR-AL19	
Model Difference	N/A	
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.	8.94 dBm(1Mbps) 9.59 dBm(3Mbps)
Power Source	#1 Supplied from AC/DC adapter. #2 Battery Supplied.	
Power Rating	#1 Input: 100V~240V AC and 50/60 Hz,0.5A Output: 5V ---2A OR 9V ---2A #2 ---3.82V 7350mAh	
Hardware Version	SH1CMRONLM	
Software Version	CMR-AL19 8.0.1.3(SP1C331)	

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	HB2994I8ECW
	Sunwoda Electronic Co., LTD.	HB2994I8ECW
	Huizhou Desay Battery Co., Ltd	HB2994I8ECW
USB Cable	HONGLIN TECHNOLOGY CO.,LTD	130-26988
	Luxshare Precision Industry Co., Ltd	L99UC001-CS-H
	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	CUDU01B-HC288-EH
	foxlink cheng uei precision industry Co., Ltd	6691-10YZ-0183
USB Type-C to 3.5 mm headset jack adapter cable	FOSTER ELECTRIC CO. (HONG KONG) LTD	620891
	Boluo County Quancheng Electronic Co.,Ltd.	6001-7001-TC-294
	Jiangxi Lianchuang Hongsheng Electronic Co.,LTD	HWTYPEC3R5009AW
	MERRY ELECTRONICS CO., LTD.	L99UD002-CS-H
Adapter	Salcomp (Shenzhen) Co., Ltd.	HW-059200UHQ
	HUIZHOU BYD ELECTRONIC CO.,LTD	

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	-0.5

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX 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:

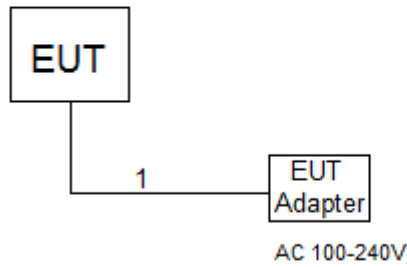
- (1) The measurements are performed at the high, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

3.3 TABLE OF PARAMETERS OF TEST 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	BluetoothRfTest_APK_7.0		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	N/A	N/A	N/A
Parameters(3Mbps)	N/A	N/A	N/A

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	DC 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 (dB μ V)	
	Quasi-peak	Average \square
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

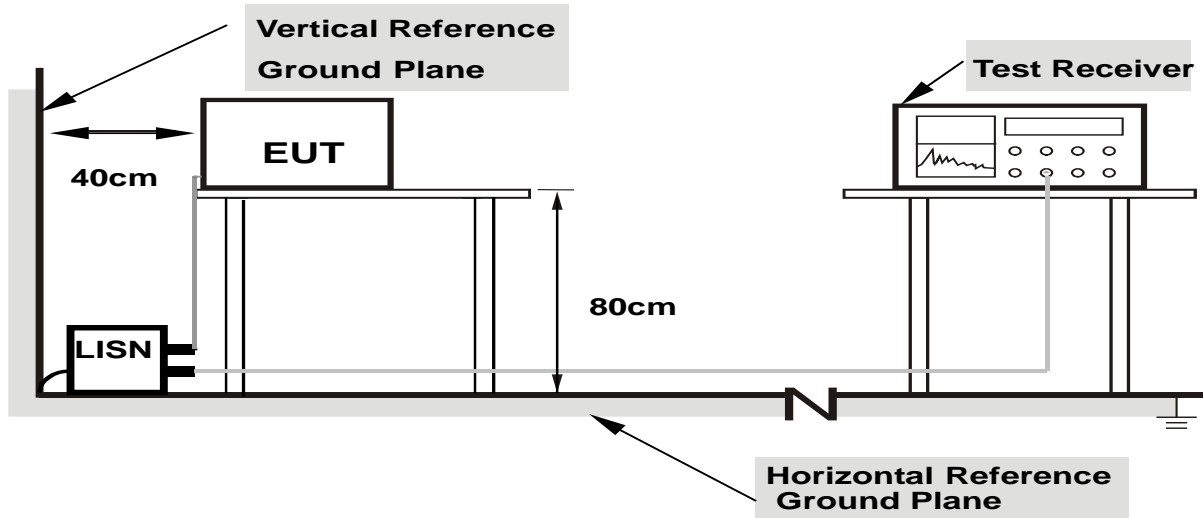
4.1.2 TEST PROCEDURE

- 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

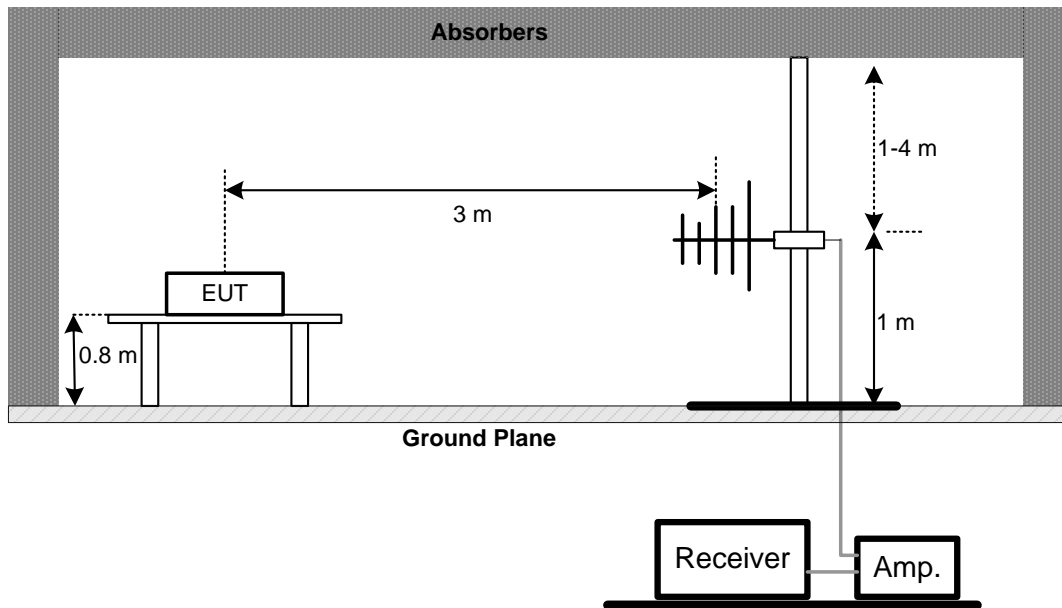
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

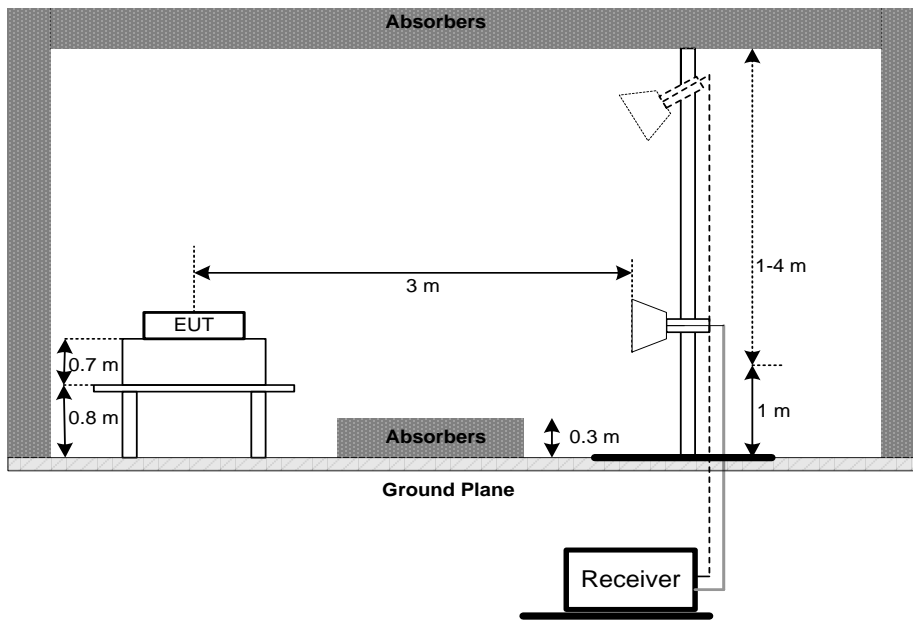
No deviation

4.2.4 TEST SETUP

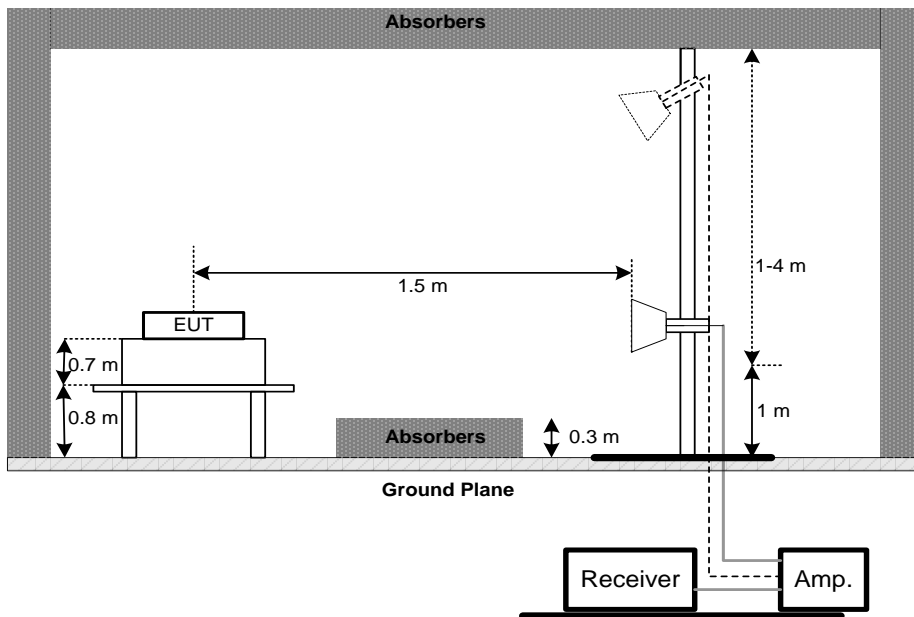
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



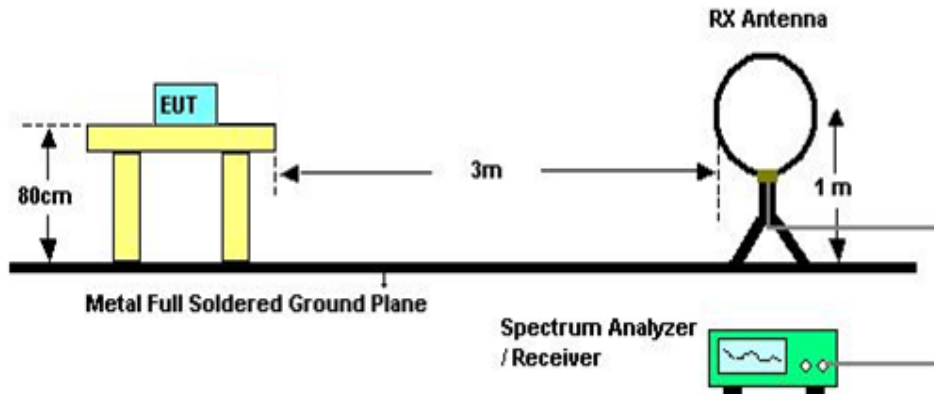
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz
Band edge



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 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

- 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 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

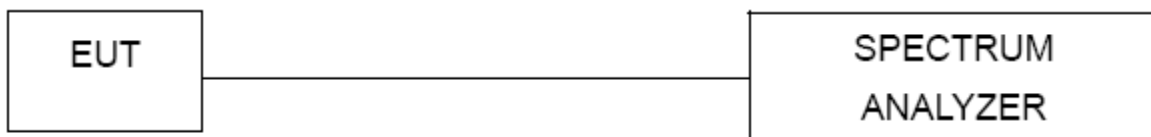
6.1.1 TEST PROCEDURE

- 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 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

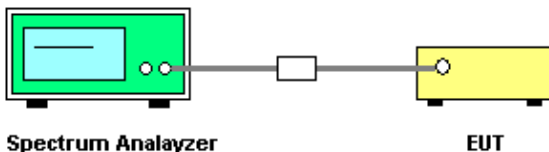
7.1.1 TEST PROCEDURE

- 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 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

- 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 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

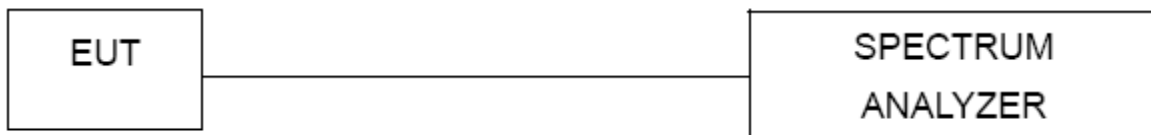
9.1.1 TEST PROCEDURE

- 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 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

- 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 Appendix J

11. MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
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. 19, 2018

Radiated Emission 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. 19, 2018
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
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	Antenna	EM	EM-6876-1	230	Mar. 06, 2018

Radiated Emission 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	Aug. 20, 2018
6	Antenna	EM	EM-6876-1	230	Mar. 06, 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	Aug. 20, 2018

Average Time of Occupancy					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

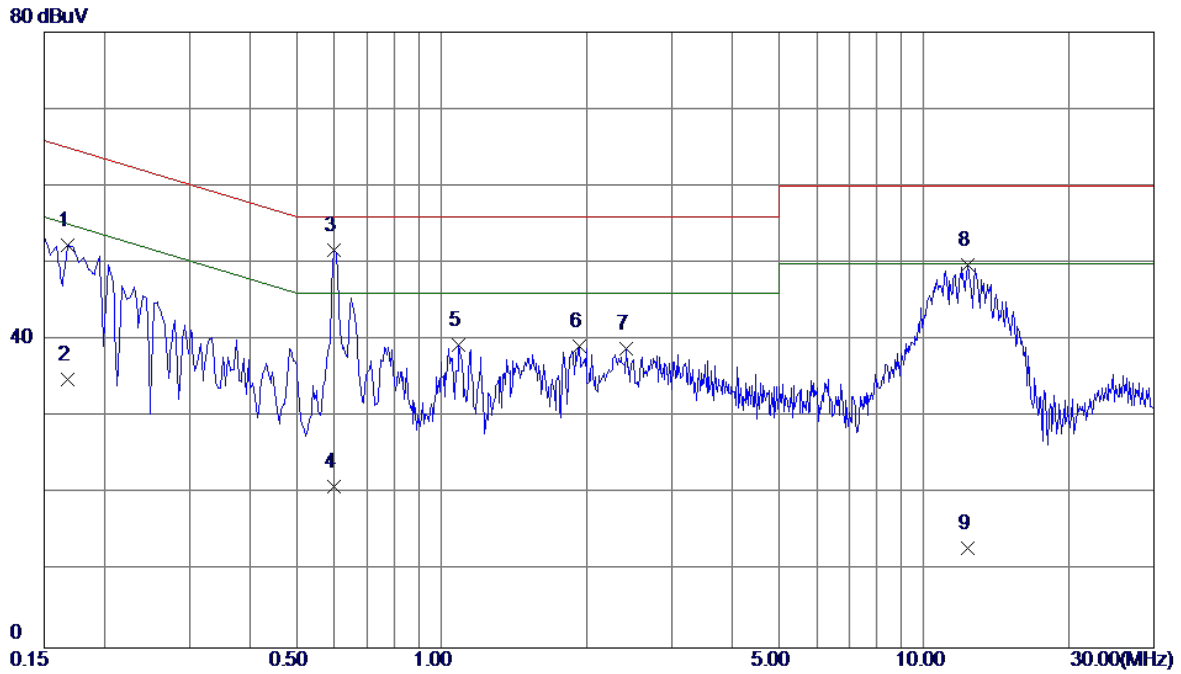
Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

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: BYD

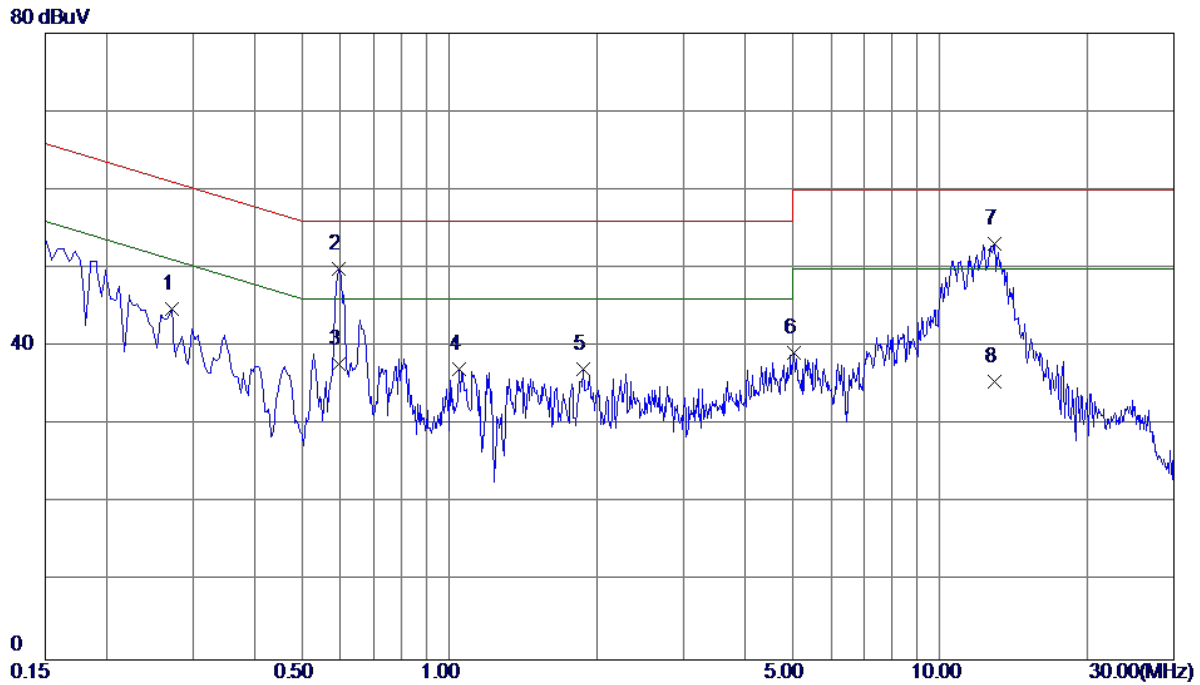
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1680	42.55	9.78	52.33	65.06	-12.73	Peak	
2	0.1680	25.10	9.78	34.88	55.06	-20.18	AVG	
3 *	0.6000	41.82	9.81	51.63	56.00	-4.37	Peak	
4	0.6000	11.20	9.81	21.01	46.00	-24.99	AVG	
5	1.0859	29.51	9.85	39.36	56.00	-16.64	Peak	
6	1.9320	29.29	9.92	39.21	56.00	-16.79	Peak	
7	2.4180	28.96	9.96	38.92	56.00	-17.08	Peak	
8	12.3315	39.33	10.45	49.78	60.00	-10.22	Peak	
9	12.3315	2.50	10.45	12.95	50.00	-37.05	AVG	

Test Mode: TX Mode_Adapter: BYD

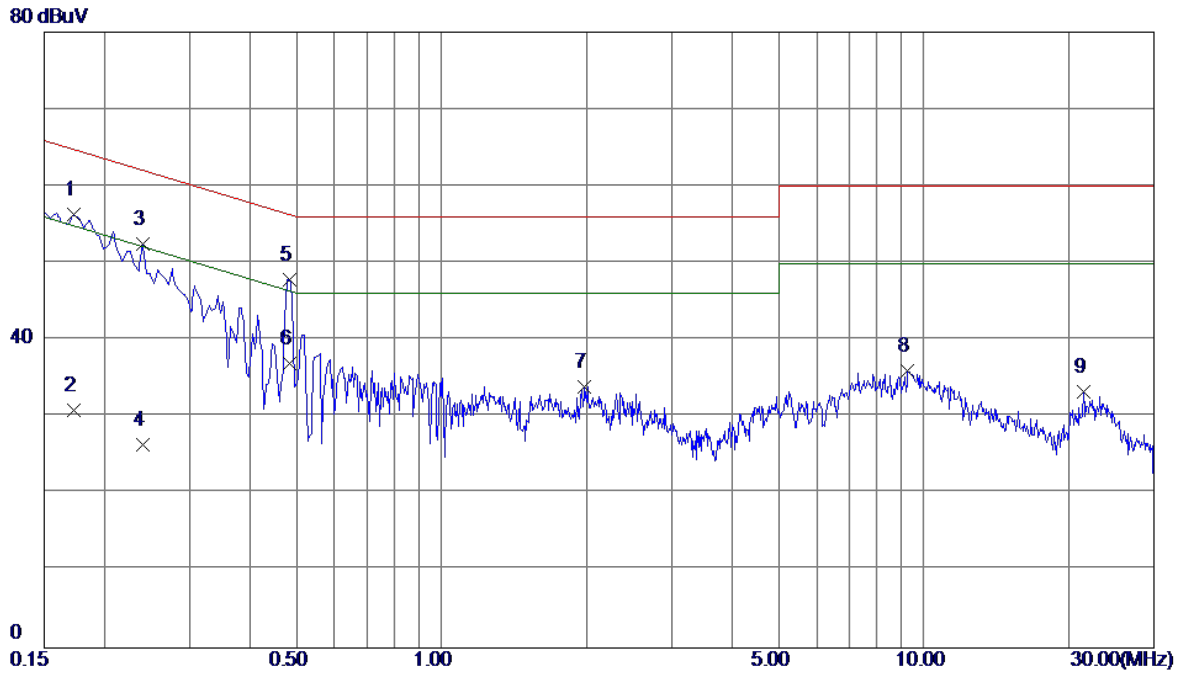
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2714	35.16	9.67	44.83	61.07	-16.24	Peak	
2 *	0.5955	40.18	9.71	49.89	56.00	-6.11	Peak	
3	0.5955	28.00	9.71	37.71	46.00	-8.29	AVG	
4	1.0455	27.39	9.75	37.14	56.00	-18.86	Peak	
5	1.8780	27.27	9.83	37.10	56.00	-18.90	Peak	
6	5.0324	29.18	10.01	39.19	60.00	-20.81	Peak	
7	12.8940	42.67	10.48	53.15	60.00	-6.85	Peak	
8	12.8940	25.09	10.48	35.57	50.00	-14.43	AVG	

Test Mode: TX Mode_Adapter: Salcomp

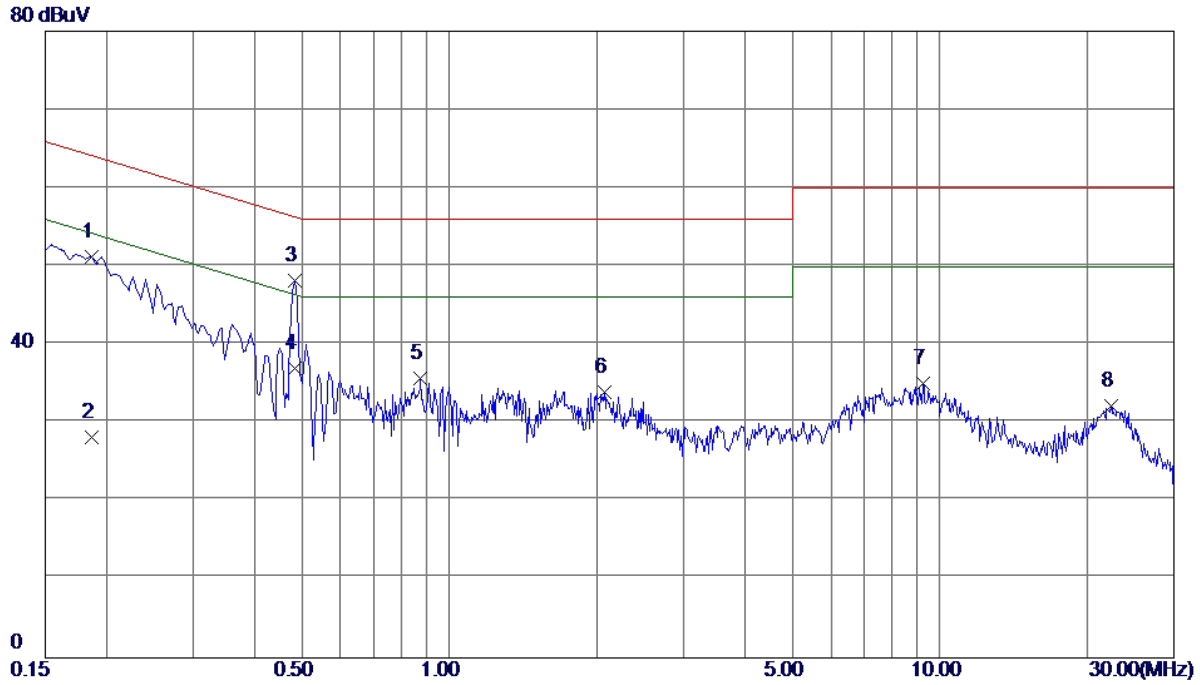
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1725	46.49	9.78	56.27	64.84	-8.57	Peak	
2	0.1725	21.10	9.78	30.88	54.84	-23.96	AVG	
3	0.2400	42.74	9.76	52.50	62.10	-9.60	Peak	
4	0.2400	16.60	9.76	26.36	52.10	-25.74	AVG	
5 *	0.4830	38.06	9.80	47.86	56.29	-8.43	Peak	
6	0.4830	27.20	9.80	37.00	46.29	-9.29	AVG	
7	1.9815	24.07	9.92	33.99	56.00	-22.01	Peak	
8	9.2670	25.76	10.29	36.05	60.00	-23.95	Peak	
9	21.4845	22.54	10.69	33.23	60.00	-26.77	Peak	

Test Mode: TX Mode_Adapter: Salcomp

Neutral

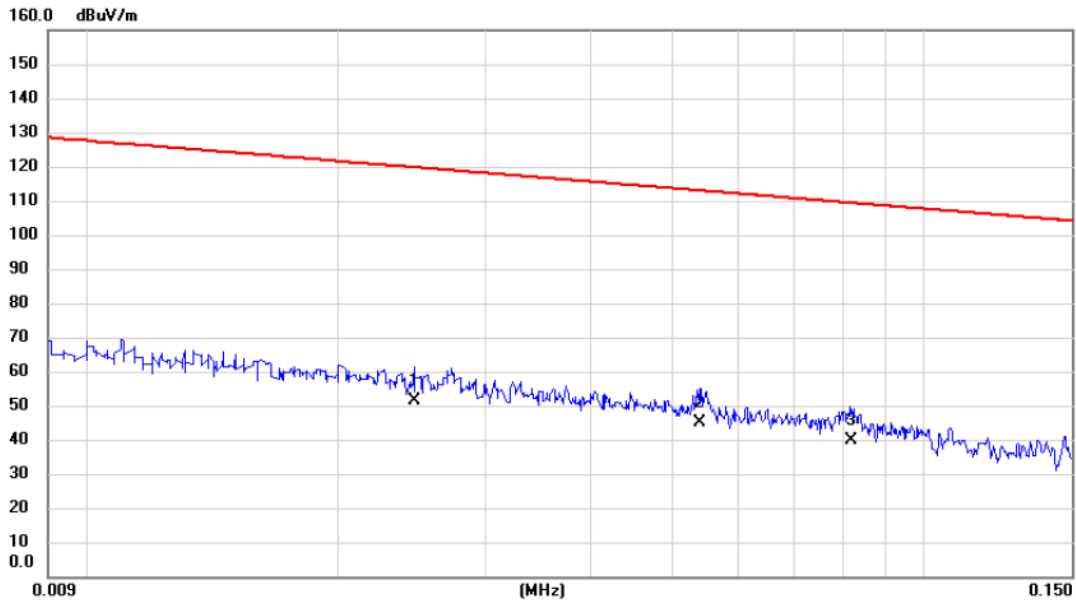


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1860	41.58	9.69	51.27	64.21	-12.94	Peak	
2	0.1860	18.50	9.69	28.19	54.21	-26.02	AVG	
3 *	0.4830	38.48	9.70	48.18	56.29	-8.11	Peak	
4	0.4830	27.20	9.70	36.90	46.29	-9.39	AVG	
5	0.8745	25.96	9.73	35.69	56.00	-20.31	Peak	
6	2.0670	24.02	9.85	33.87	56.00	-22.13	Peak	
7	9.2265	24.85	10.23	35.08	60.00	-24.92	Peak	
8	22.3395	21.37	10.84	32.21	60.00	-27.79	Peak	

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

Test Mode: TX Mode _Adapter: BYD

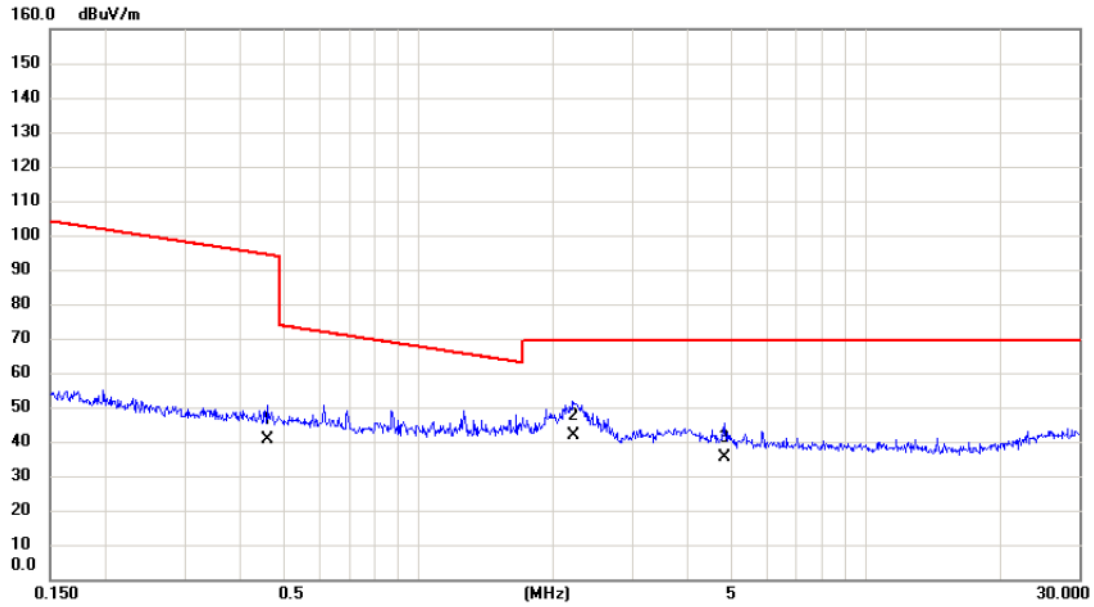
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0246	31.82	19.48	51.30	119.79	-68.49	AVG	
2	*	0.0540	26.18	18.64	44.82	112.96	-68.14	AVG	
3		0.0817	21.62	18.07	39.69	109.36	-69.67	AVG	

Test Mode: TX Mode_ Adapter: BYD

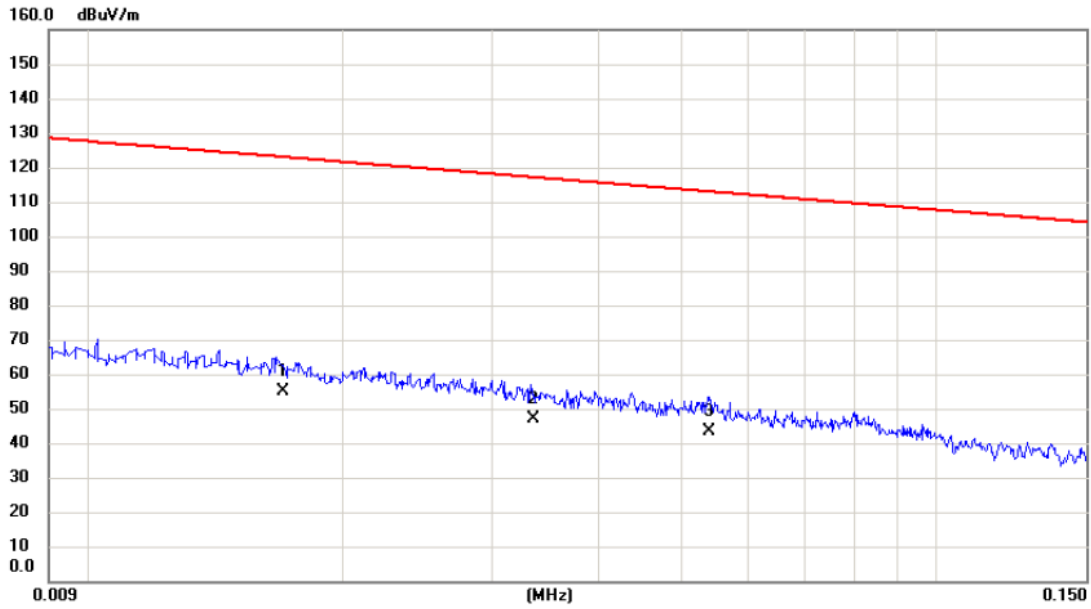
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4588	24.03	16.50	40.53	94.37	-53.84	AVG	
2	*	2.2132	26.19	15.45	41.64	69.54	-27.90	QP	
3		4.8224	20.85	14.48	35.33	69.54	-34.21	QP	

Test Mode: TX Mode _ Adapter: BYD

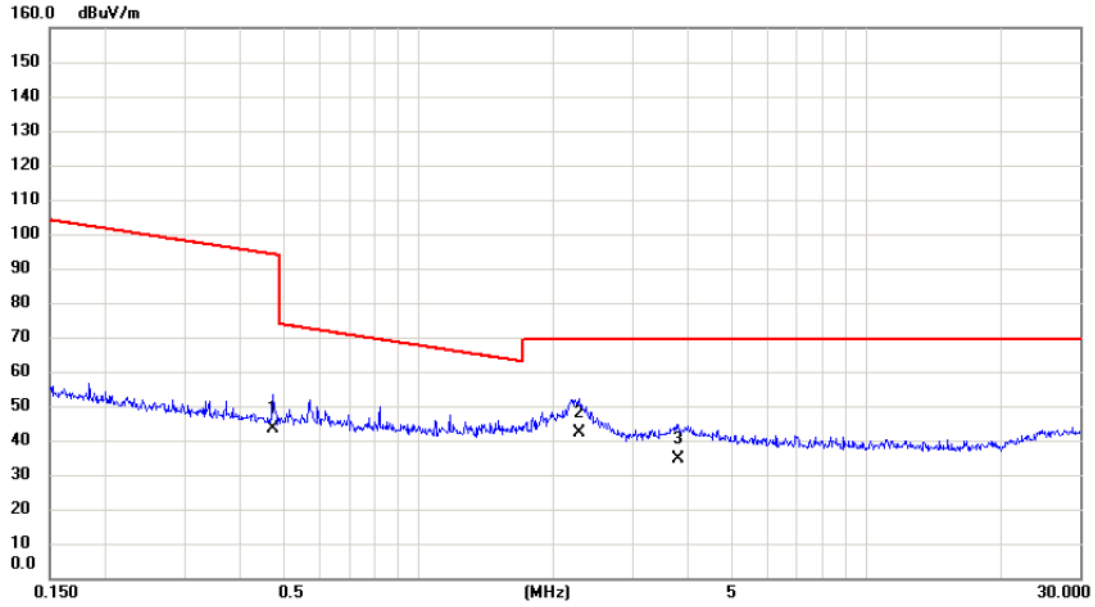
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0170	35.08	20.01	55.09	123.00	-67.91	AVG	
2		0.0335	27.94	19.22	47.16	117.10	-69.94	AVG	
3		0.0540	24.70	18.64	43.34	112.96	-69.62	AVG	

Test Mode: TX Mode_ Adapter: BYD

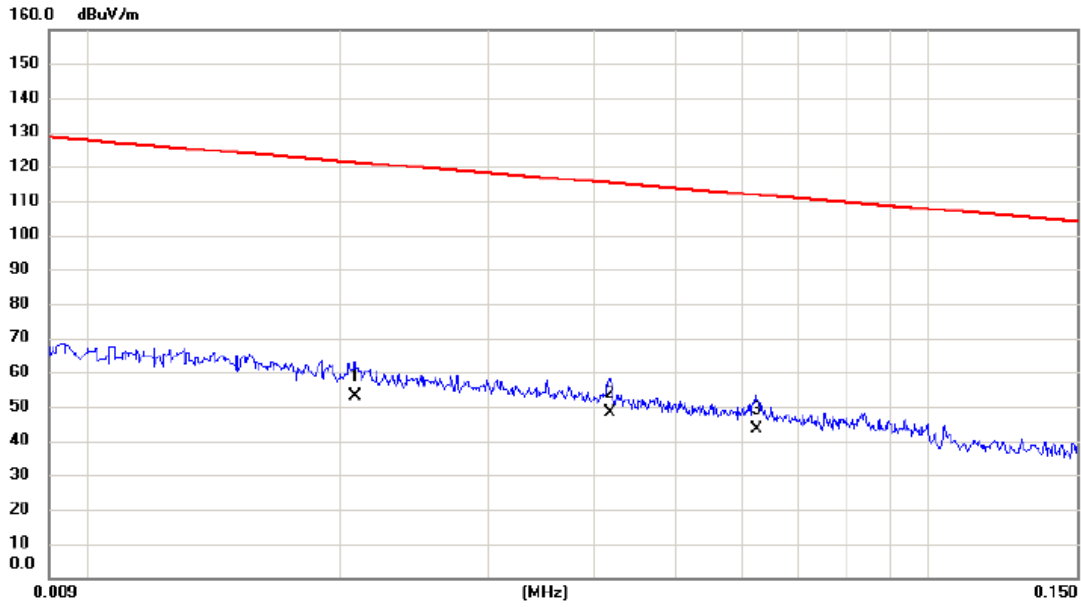
Ant 90°



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.4736	26.77	16.49	43.26	94.10	-50.84	AVG	
2 *	2.2847	26.60	15.43	42.03	69.54	-27.51	QP	
3	3.7994	19.57	15.01	34.58	69.54	-34.96	QP	

Test Mode: TX Mode _ Adapter: Salcomp

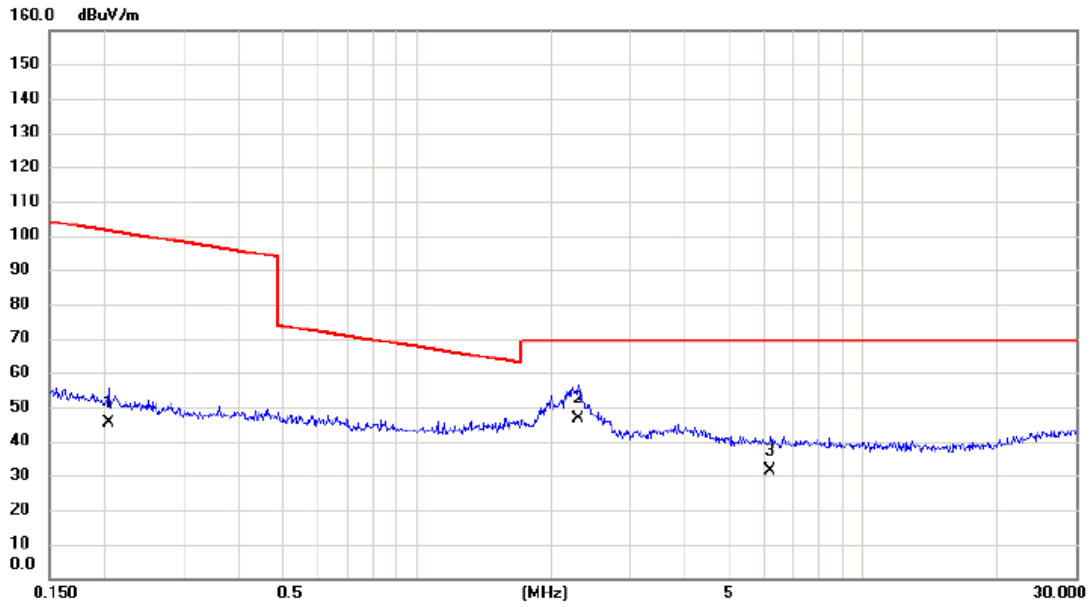
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0208	33.46	19.60	53.06	121.24	-68.18	AVG	
2	*	0.0418	29.27	18.97	48.24	115.18	-66.94	AVG	
3		0.0624	24.90	18.48	43.38	111.70	-68.32	AVG	

Test Mode: TX Mode _ Adapter: Salcomp

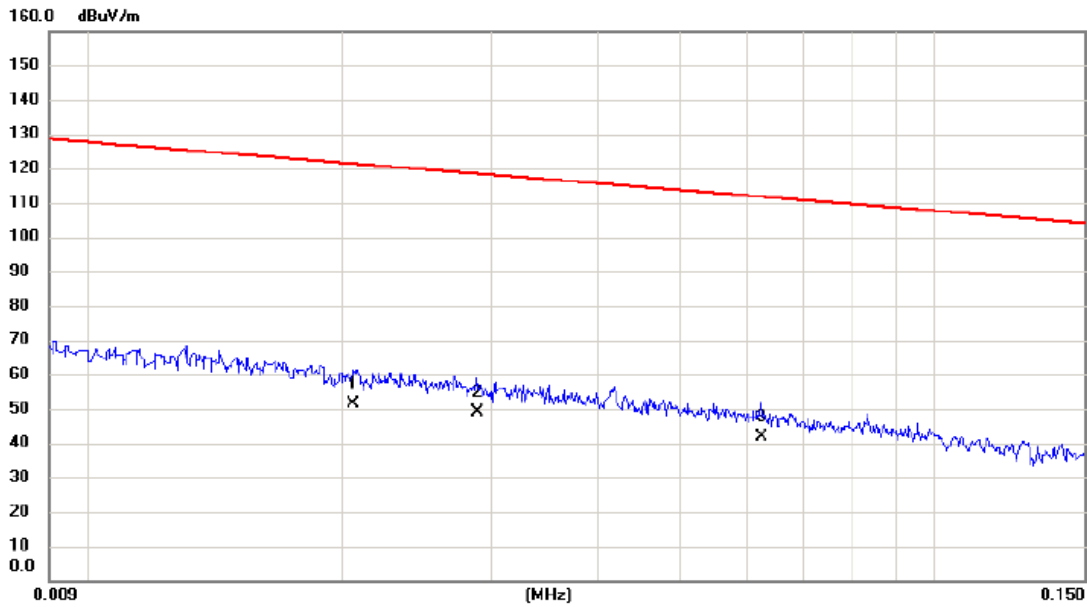
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2040	28.66	16.79	45.45	101.41	-55.96	AVG	
2	*	2.2968	30.99	15.43	46.42	69.54	-23.12	QP	
3		6.1860	17.36	14.22	31.58	69.54	-37.96	QP	

Test Mode: TX Mode _ Adapter: Salcomp

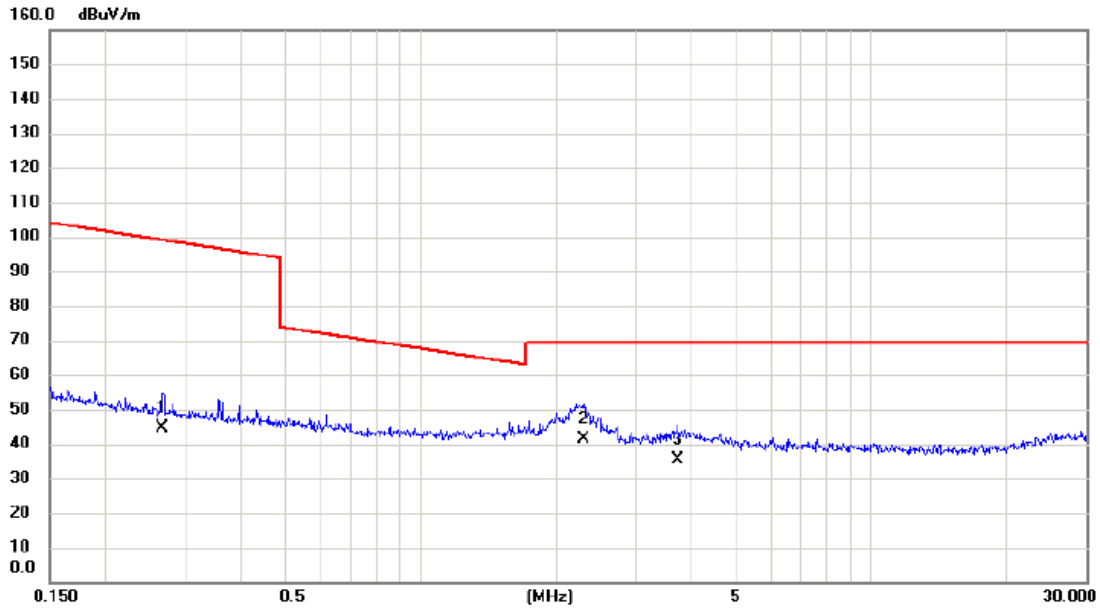
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0206	31.94	19.60	51.54	121.33	-69.79	AVG	
2	*	0.0288	29.49	19.36	48.85	118.42	-69.57	AVG	
3		0.0624	23.34	18.48	41.82	111.70	-69.88	AVG	

Test Mode: TX Mode _ Adapter: Salcomp

Ant 90°

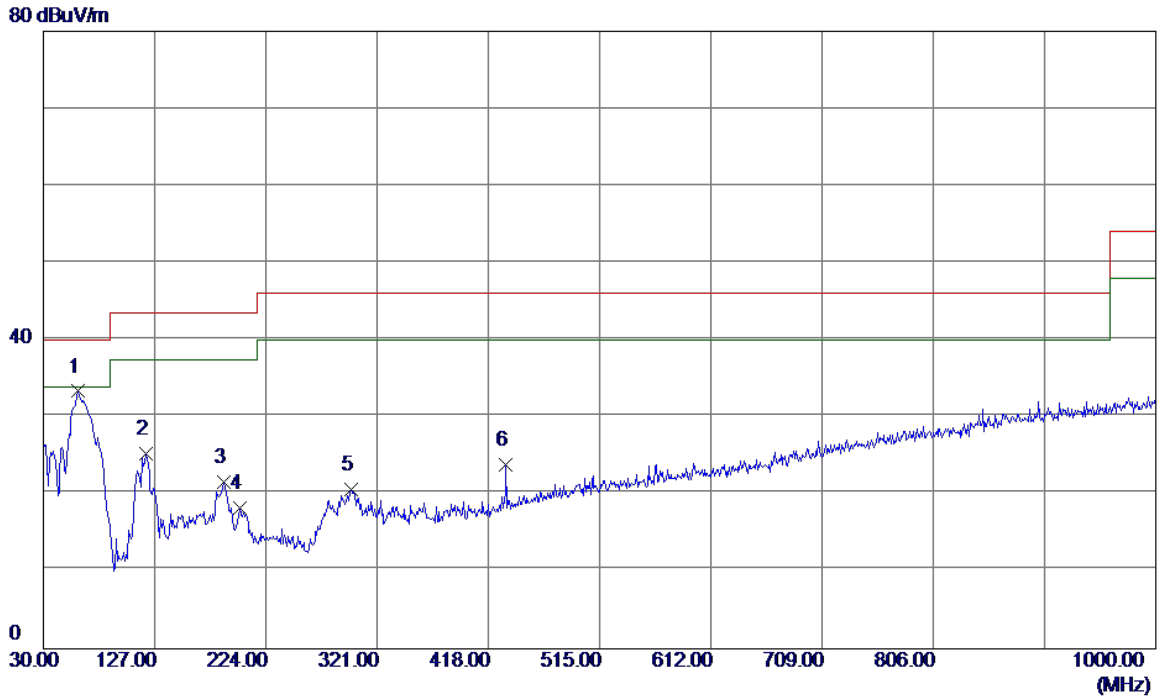


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2672	28.05	16.65	44.70	99.07	-54.37	AVG	
2	*	2.2968	25.92	15.43	41.35	69.54	-28.19	QP	
3		3.7198	20.20	15.02	35.22	69.54	-34.32	QP	

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

Test Mode: TX 2402MHz _CH00_1Mbps_ Adapter: BYD

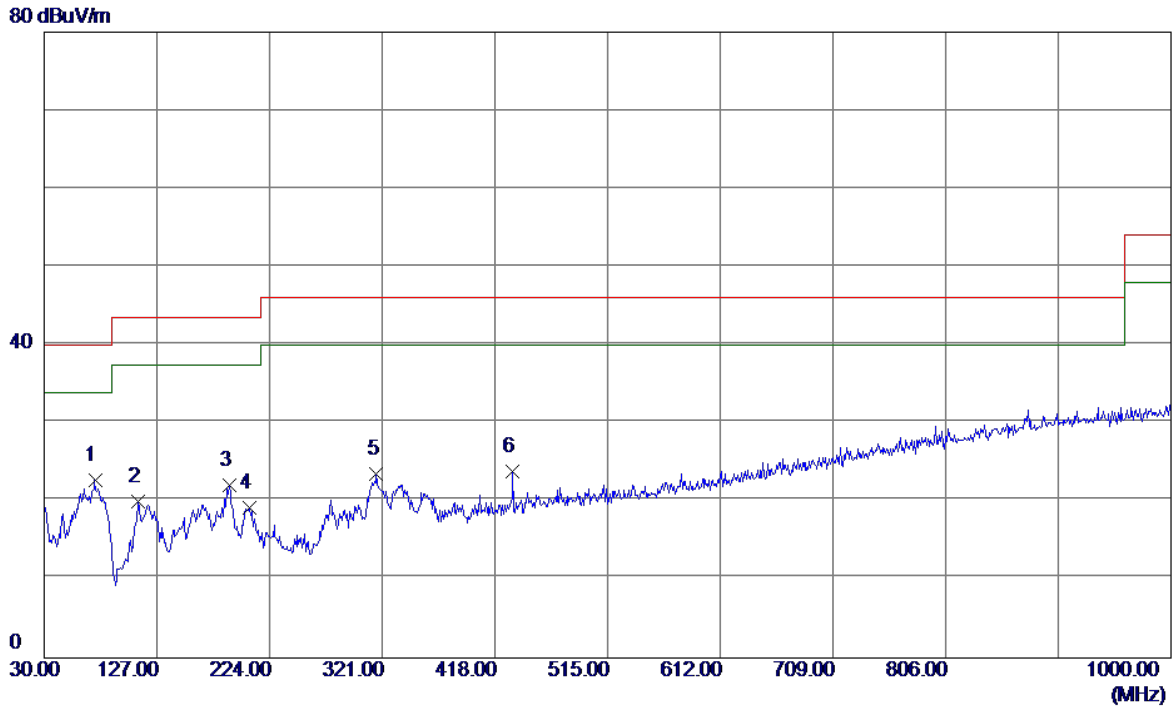
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	60.0700	47.68	-14.32	33.36	40.00	-6.64	Peak	
2	119.2400	40.67	-15.46	25.21	43.50	-18.29	Peak	
3	187.1400	34.25	-12.61	21.64	43.50	-21.86	Peak	
4	201.6900	32.02	-13.79	18.23	43.50	-25.27	Peak	
5	298.6900	33.59	-13.01	20.58	46.00	-25.42	Peak	
6	433.5200	34.27	-10.41	23.86	46.00	-22.14	Peak	

Test Mode: TX 2402MHz _CH00_1Mbps_ Adapter: BYD

Horizontal

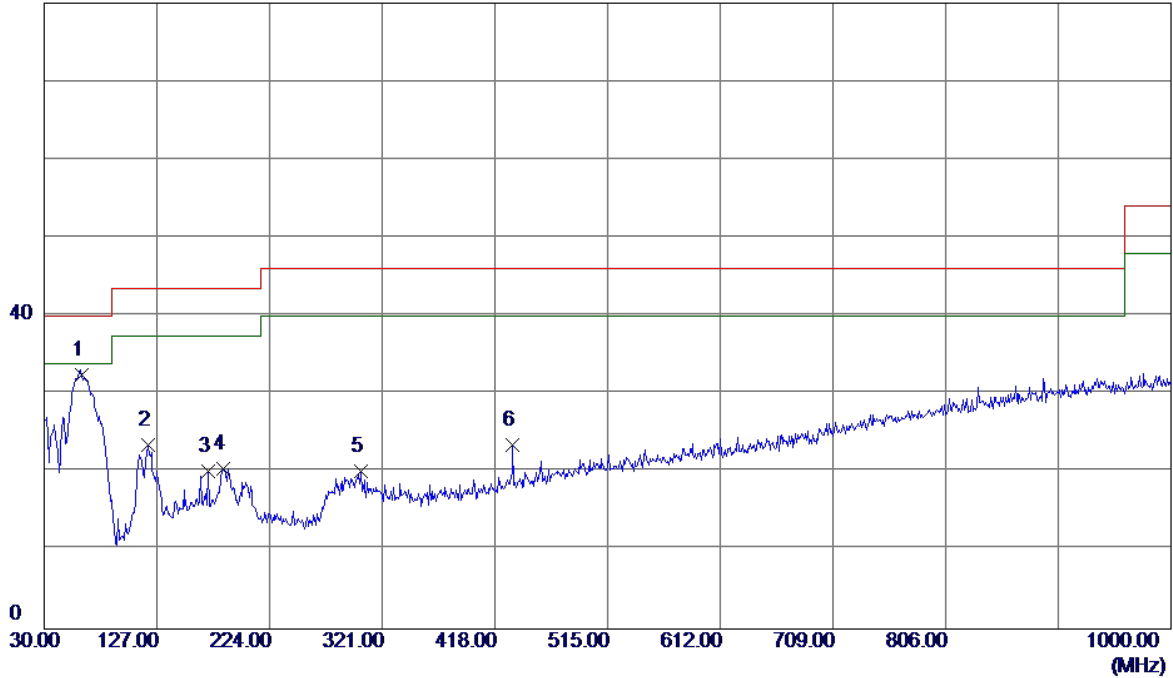


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	73.6500	39.68	-16.93	22.75	40.00	-17.25	Peak	
2	110.5100	36.09	-16.15	19.94	43.50	-23.56	Peak	
3	189.0800	34.79	-12.77	22.02	43.50	-21.48	Peak	
4	206.5399	33.08	-13.90	19.18	43.50	-24.32	Peak	
5	316.1500	36.12	-12.55	23.57	46.00	-22.43	Peak	
6	433.5200	34.18	-10.41	23.77	46.00	-22.23	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps_ Adapter: BYD

Vertical

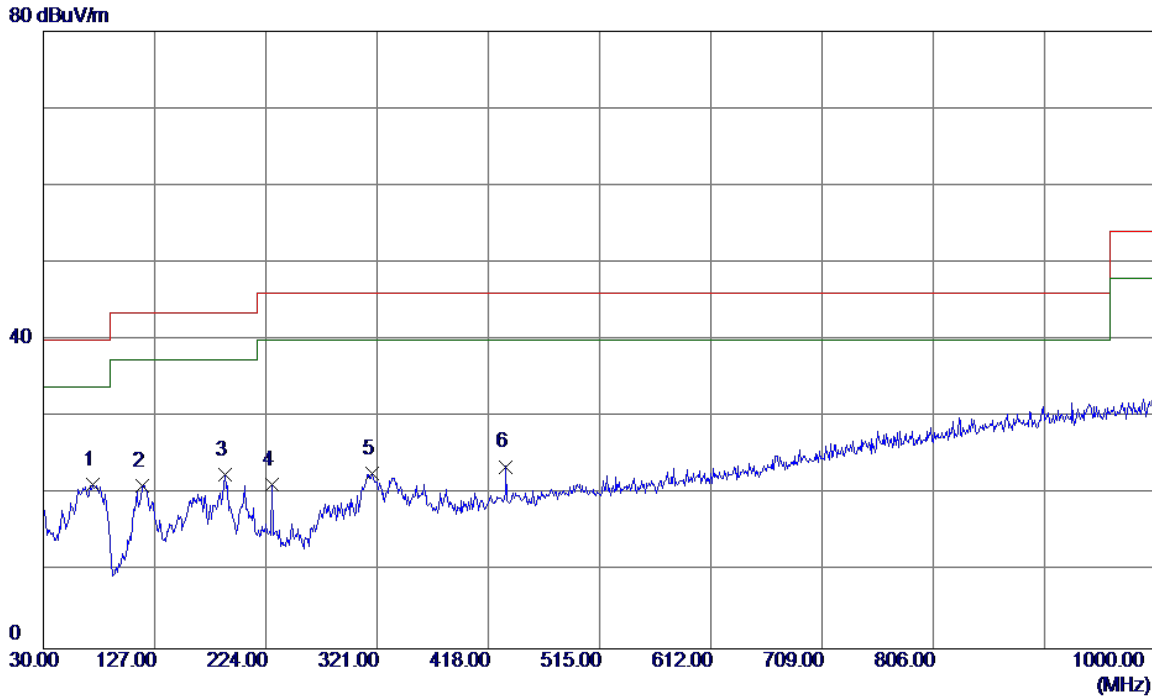
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	62.0100	47.16	-14.65	32.51	40.00	-7.49	Peak	
2	119.2400	38.99	-15.46	23.53	43.50	-19.97	Peak	
3	171.6200	32.47	-12.29	20.18	43.50	-23.32	Peak	
4	184.2300	32.83	-12.38	20.45	43.50	-23.05	Peak	
5	302.5700	32.92	-12.78	20.14	46.00	-25.86	Peak	
6	433.5200	33.95	-10.41	23.54	46.00	-22.46	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps_ Adapter: BYD

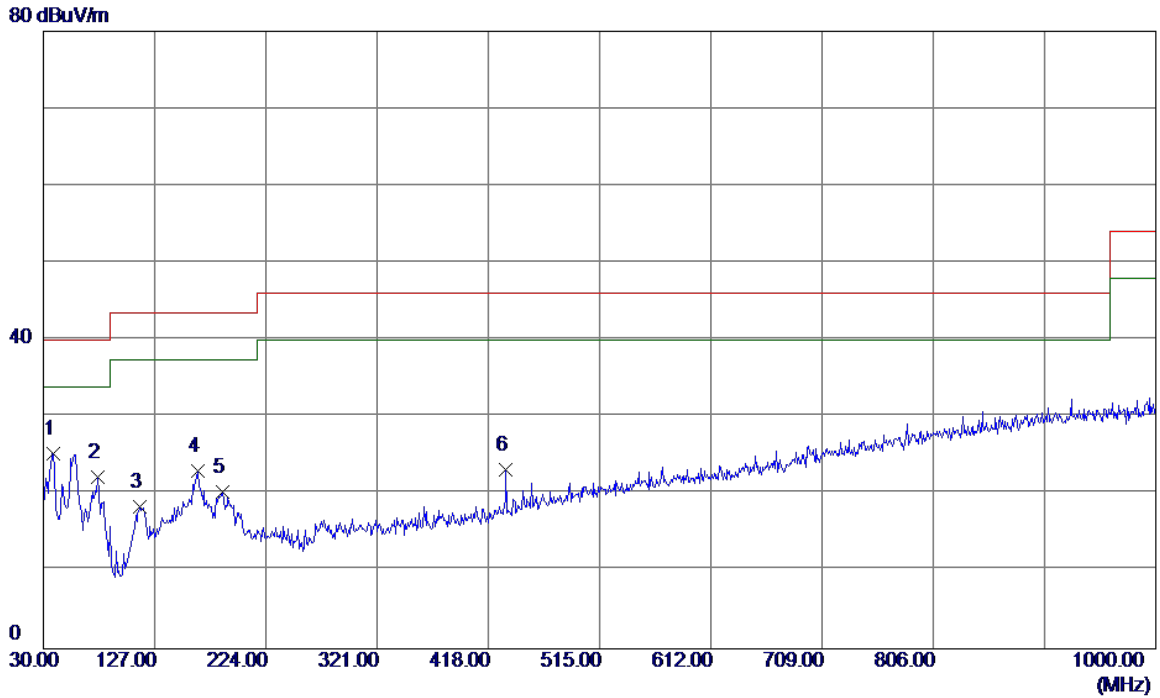
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	72.6800	38.03	-16.82	21.21	40.00	-18.79	Peak	
2	116.3300	36.86	-15.69	21.17	43.50	-22.33	Peak	
3	188.1100	35.30	-12.69	22.61	43.50	-20.89	Peak	
4	229.8200	35.43	-14.13	21.30	46.00	-24.70	Peak	
5	317.1200	35.32	-12.53	22.79	46.00	-23.21	Peak	
6	433.5200	34.01	-10.41	23.60	46.00	-22.40	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps _ Adapter: Salcomp

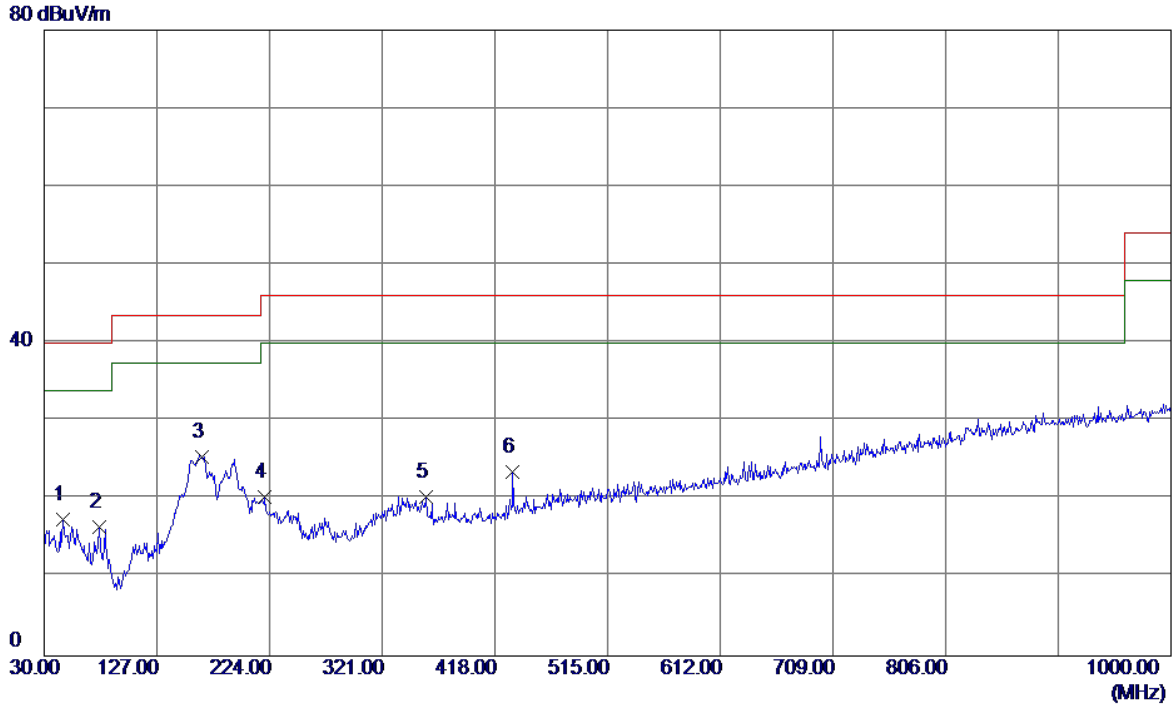
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	38.7300	39.44	-14.16	25.28	40.00	-14.72	Peak	
2	77.5300	39.98	-17.67	22.31	40.00	-17.69	Peak	
3	114.3900	34.28	-15.84	18.44	43.50	-25.06	Peak	
4	164.8300	35.62	-12.64	22.98	43.50	-20.52	Peak	
5	186.1700	32.83	-12.54	20.29	43.50	-23.21	Peak	
6	433.5200	33.57	-10.41	23.16	46.00	-22.84	Peak	

Test Mode: TX 2402MHz_CH00_1Mbps _ Adapter: Salcomp

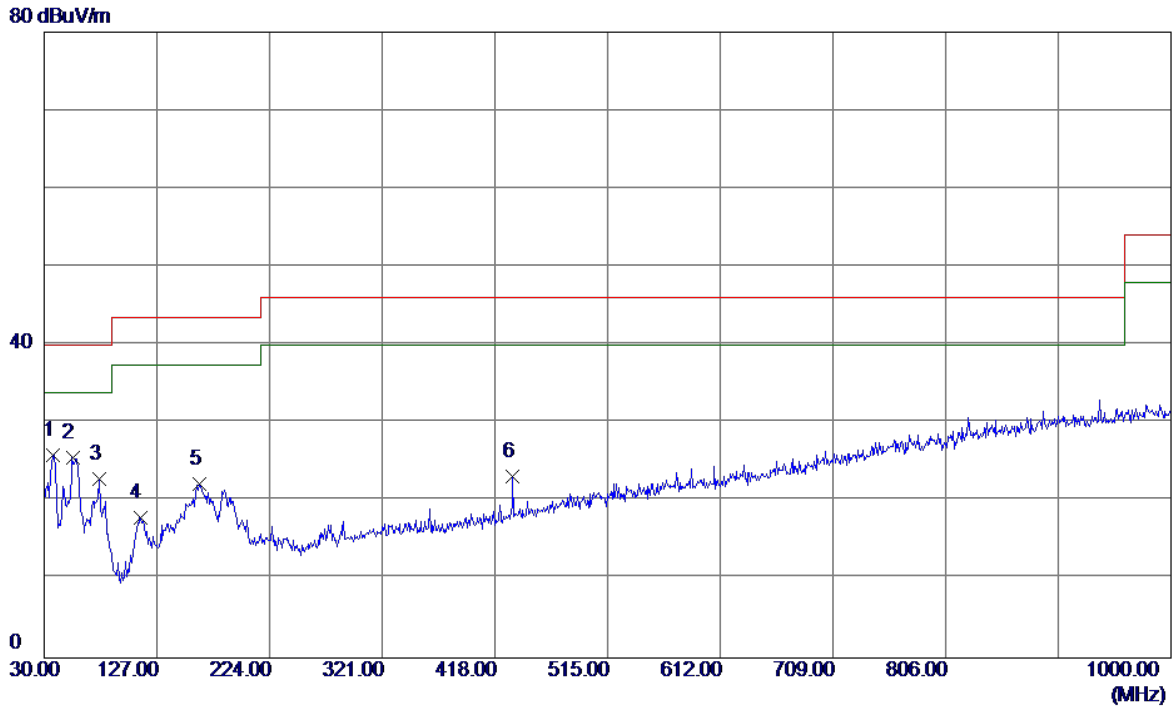
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	46.4900	30.49	-12.98	17.51	40.00	-22.49	Peak	
2	77.5300	34.17	-17.67	16.50	40.00	-23.50	Peak	
3 *	165.8000	38.04	-12.58	25.46	43.50	-18.04	Peak	
4	220.1200	34.16	-13.91	20.25	46.00	-25.75	Peak	
5	358.8299	32.21	-11.85	20.36	46.00	-25.64	Peak	
6	433.5200	33.89	-10.41	23.48	46.00	-22.52	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps _ Adapter: Salcomp

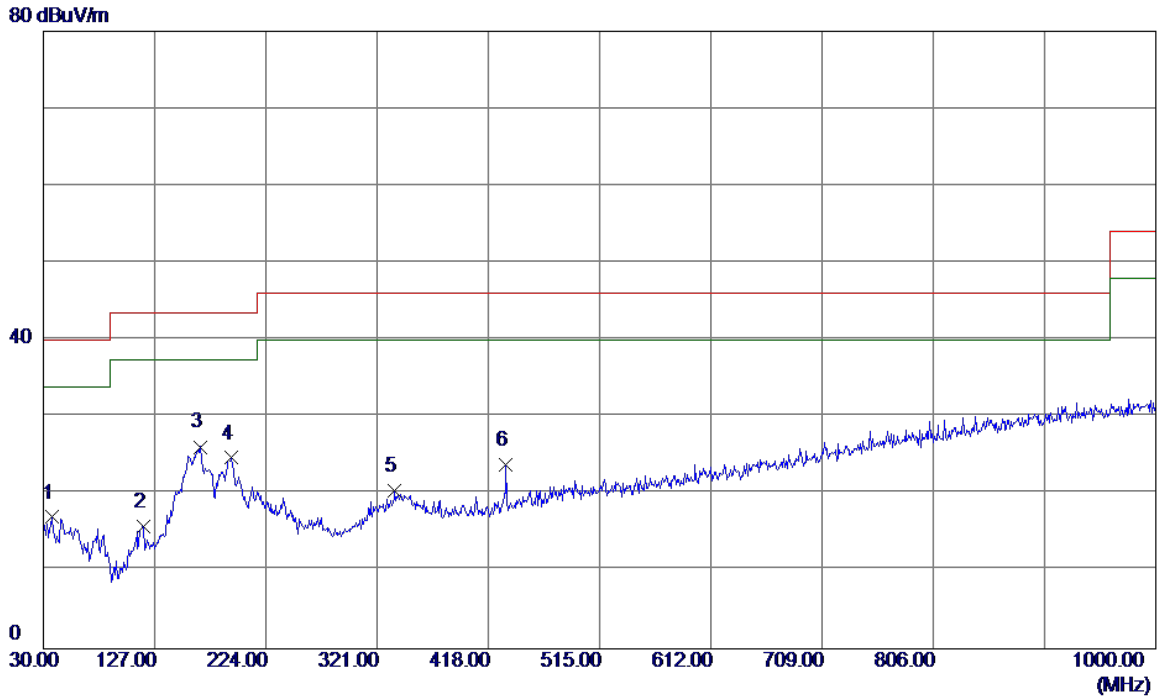
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	37.7599	40.26	-14.30	25.96	40.00	-14.04	Peak	
2	54.2500	39.61	-13.95	25.66	40.00	-14.34	Peak	
3	77.5300	40.49	-17.67	22.82	40.00	-17.18	Peak	
4	112.4500	33.94	-16.00	17.94	43.50	-25.56	Peak	
5	163.8600	35.01	-12.70	22.31	43.50	-21.19	Peak	
6	433.5200	33.60	-10.41	23.19	46.00	-22.81	Peak	

Test Mode: TX 2480MHz_CH78_1Mbps _ Adapter: Salcomp

Horizontal

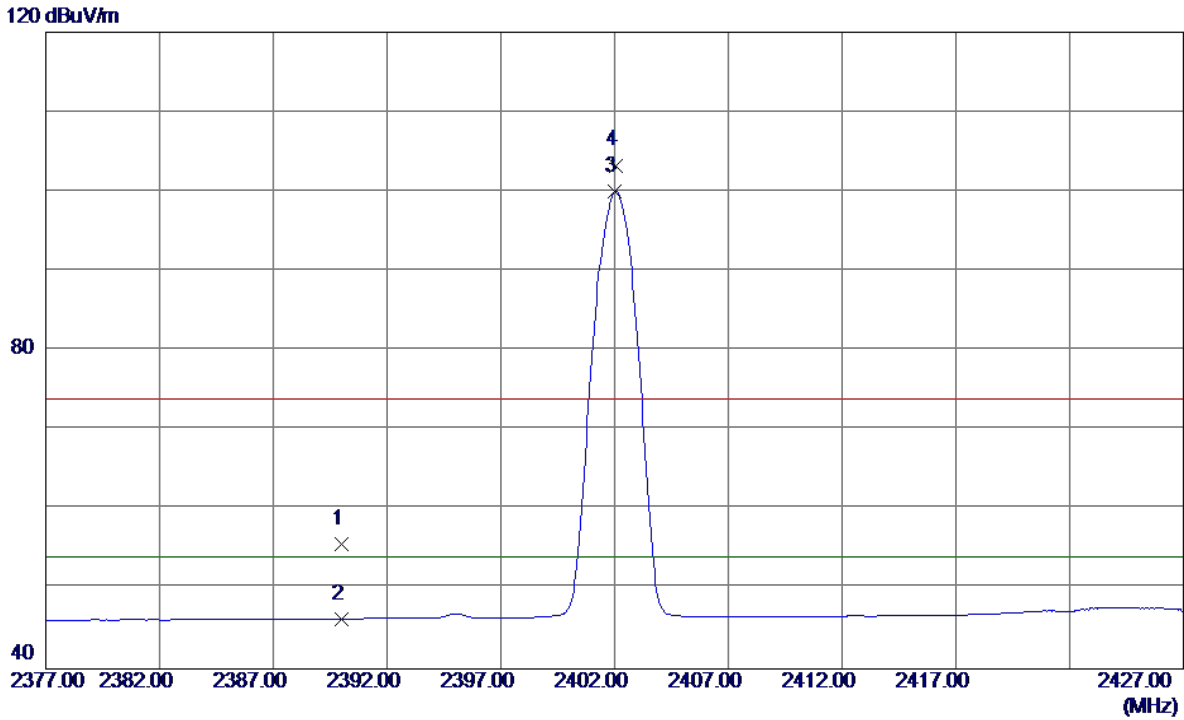


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	37.7599	31.34	-14.30	17.04	40.00	-22.96	Peak	
2	117.3000	31.41	-15.61	15.80	43.50	-27.70	Peak	
3 *	166.7700	38.69	-12.53	26.16	43.50	-17.34	Peak	
4	193.9299	37.92	-13.20	24.72	43.50	-18.78	Peak	
5	336.5200	32.74	-12.19	20.55	46.00	-25.45	Peak	
6	433.5200	34.30	-10.41	23.89	46.00	-22.11	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz _CH00_1Mbps

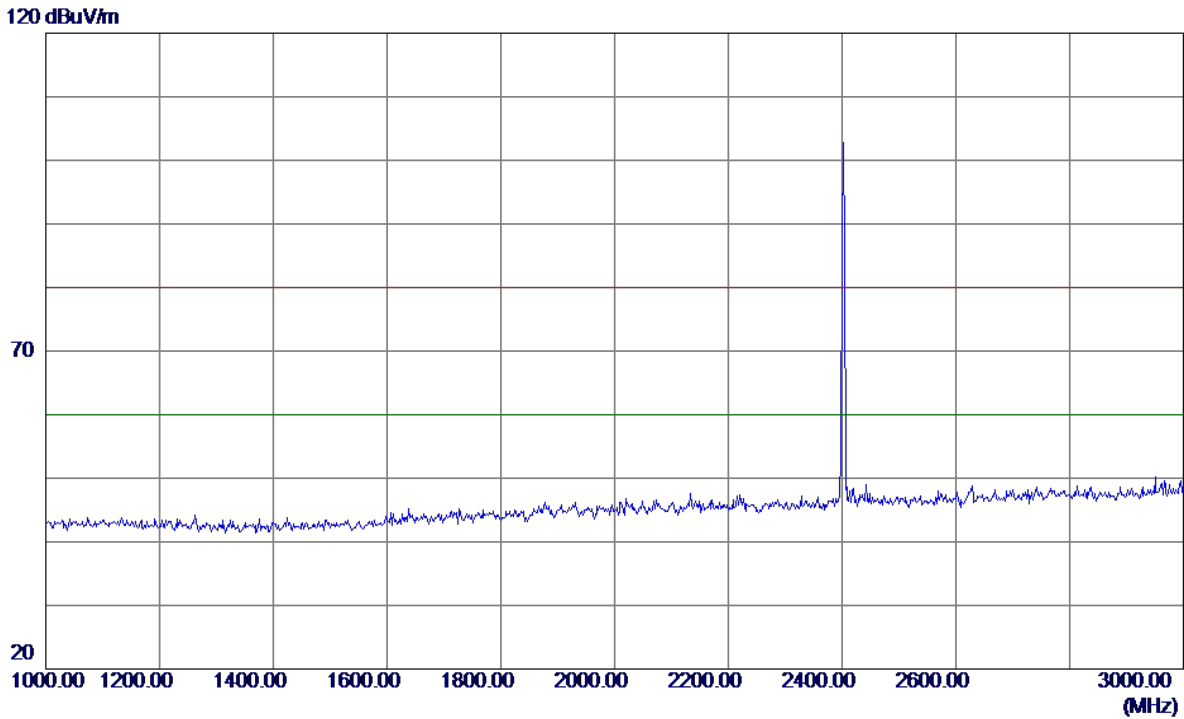
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	22.65	33.06	55.71	74.00	-18.29	Peak	
2	2390.0000	13.23	33.06	46.29	54.00	-7.71	AVG	
3 *	2402.0000	66.96	33.10	100.06	54.00	46.06	AVG	No Limit
4	2402.0500	70.18	33.10	103.28	74.00	29.28	Peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

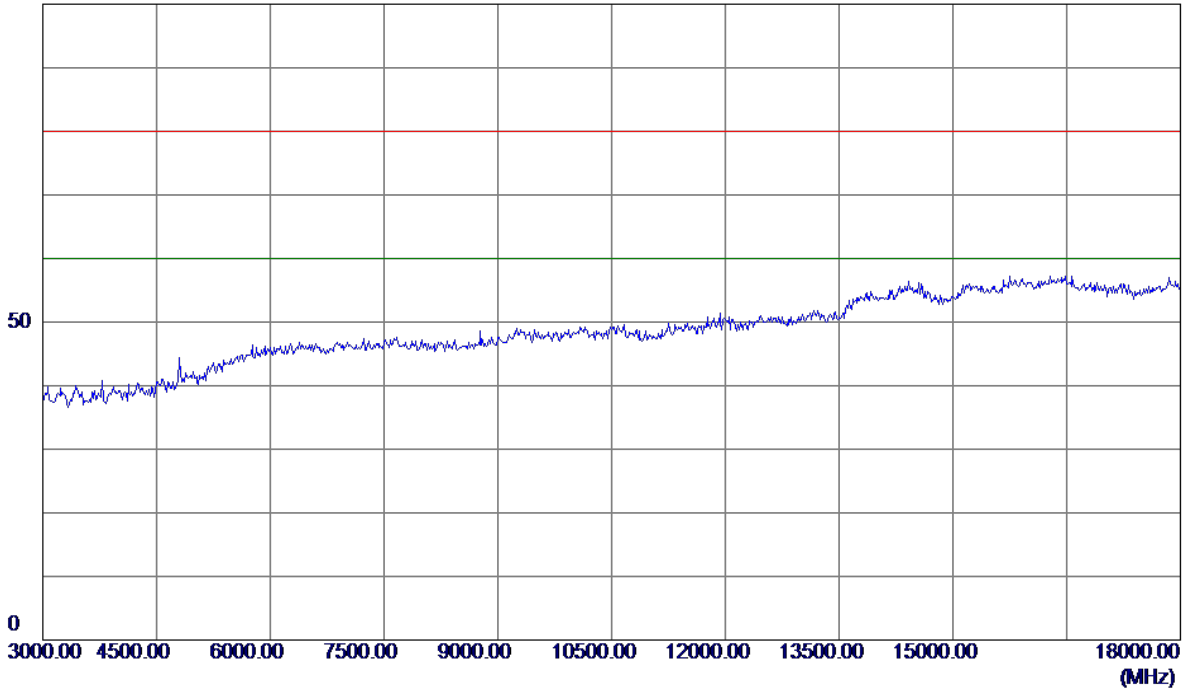


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

100 dBuV/m

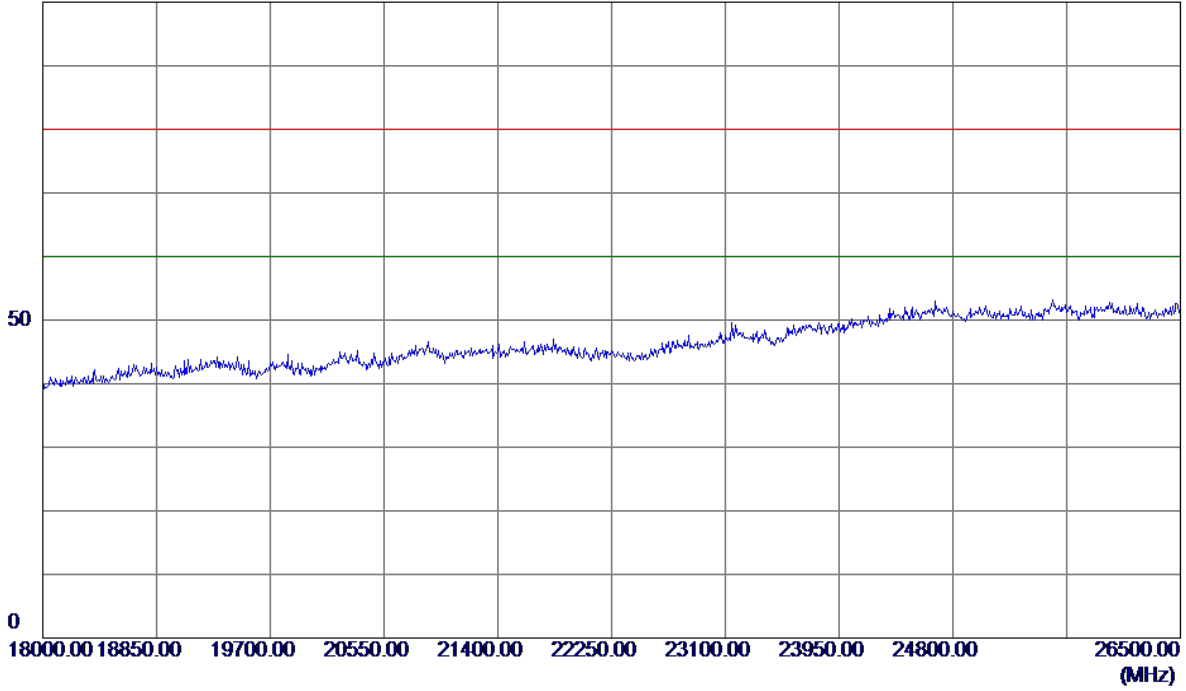


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

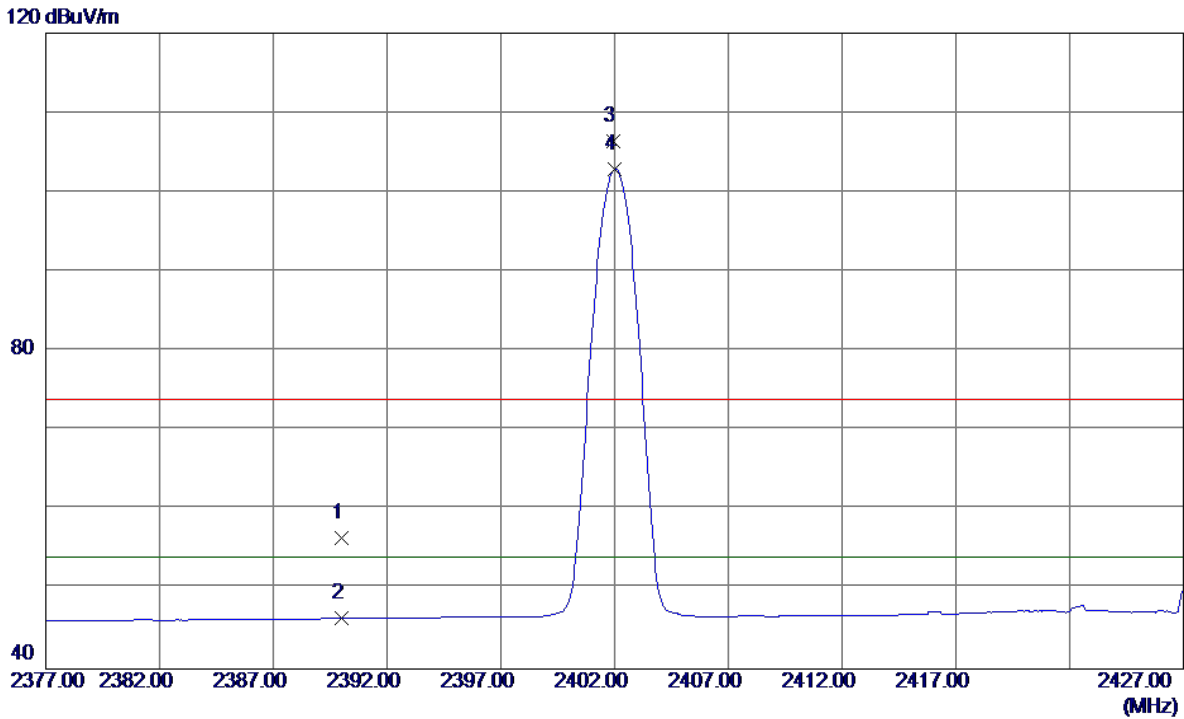
100 dBuV/m



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_1Mbps

Horizontal

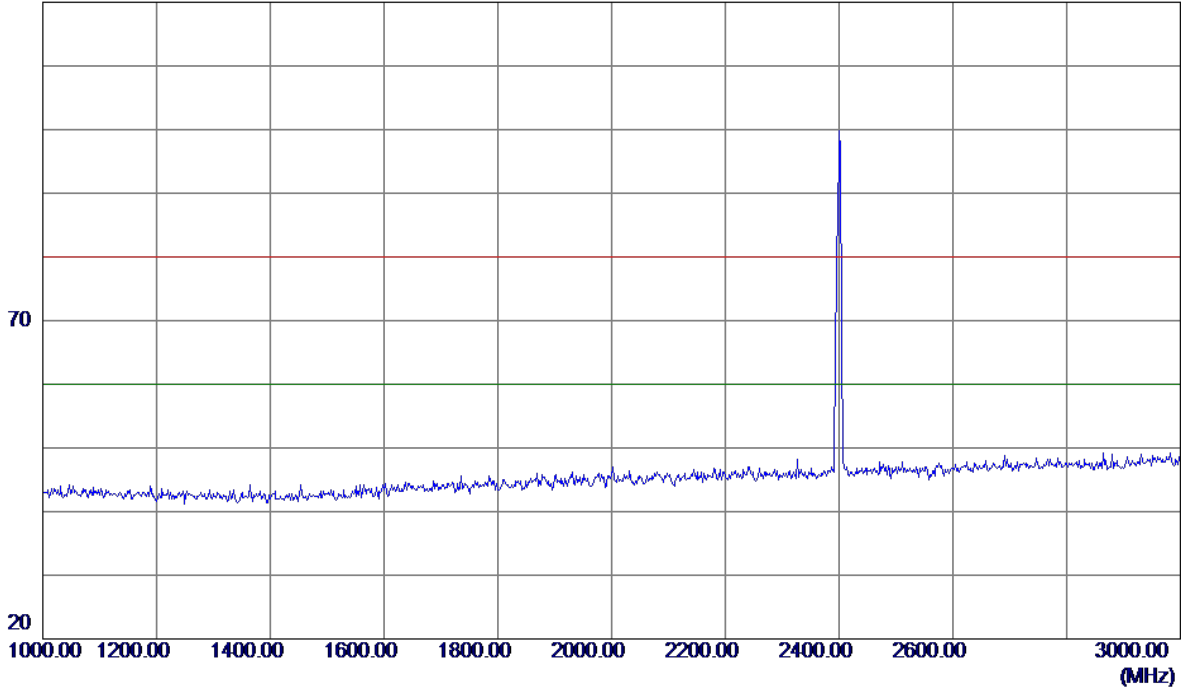


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.37	33.06	56.43	74.00	-17.57	Peak	
2	2390.0000	13.28	33.06	46.34	54.00	-7.66	AVG	
3	2401.9500	73.23	33.10	106.33	74.00	32.33	Peak	No Limit
4 *	2402.0000	69.78	33.10	102.88	54.00	48.88	AVG	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

120 dBuV/m

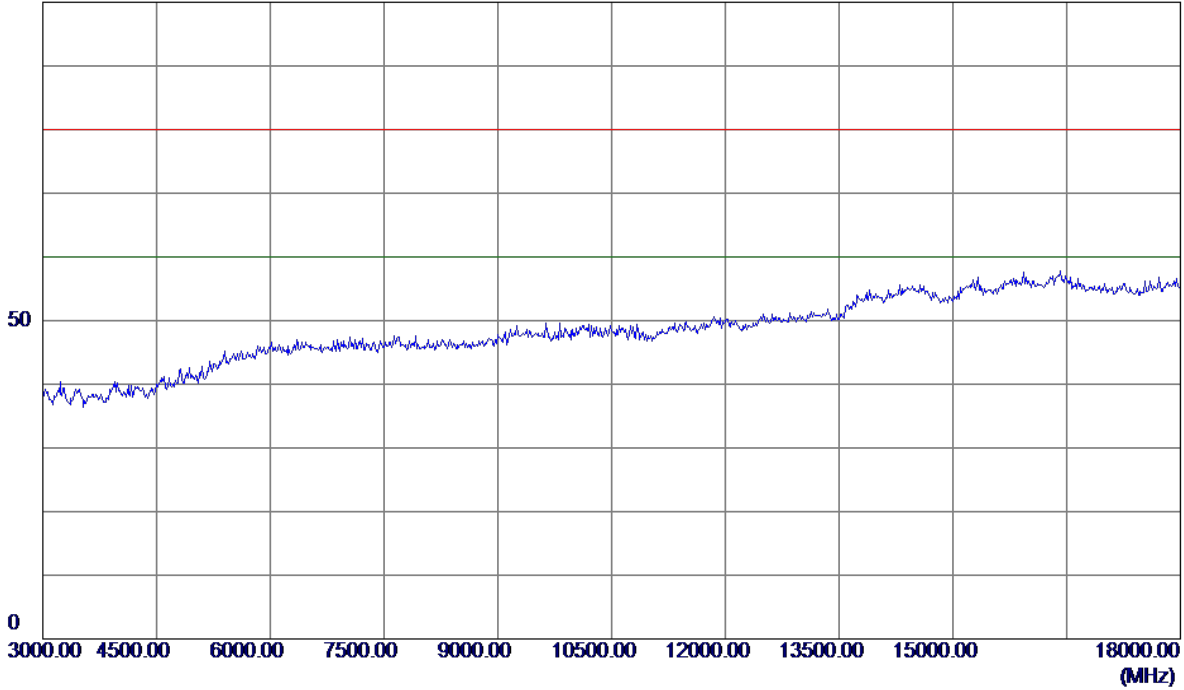


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
	2402	~110	0	~110	70	~40		

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

100 dBuV/m

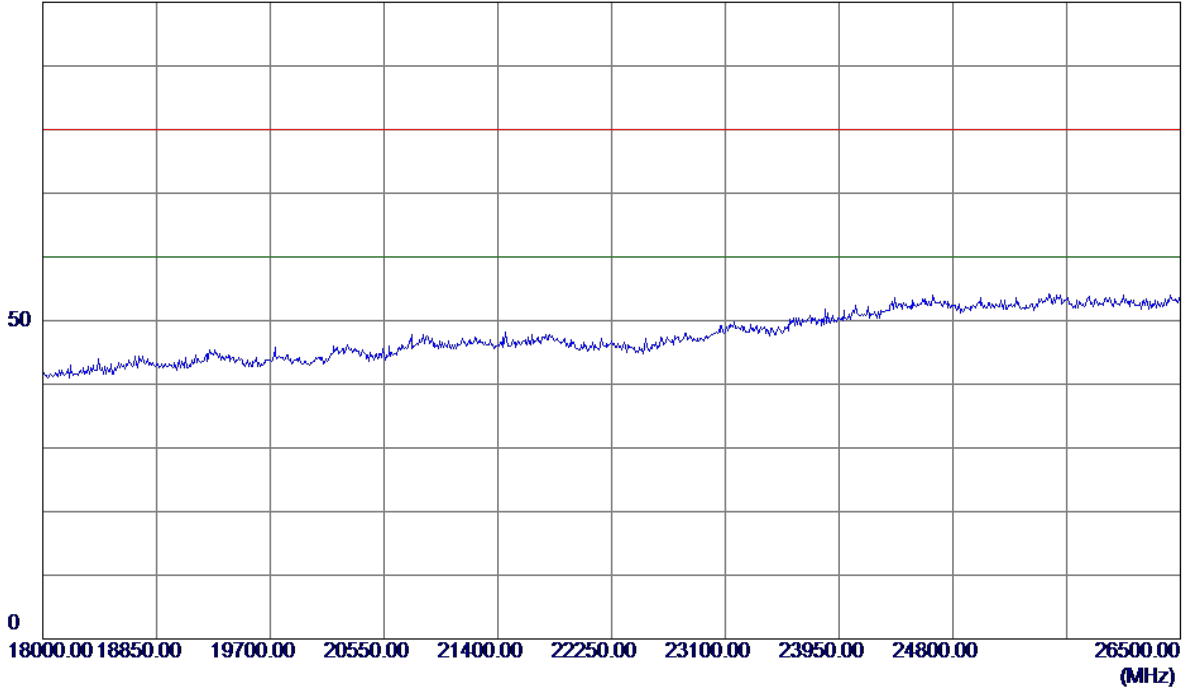


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal

100 dBuV/m

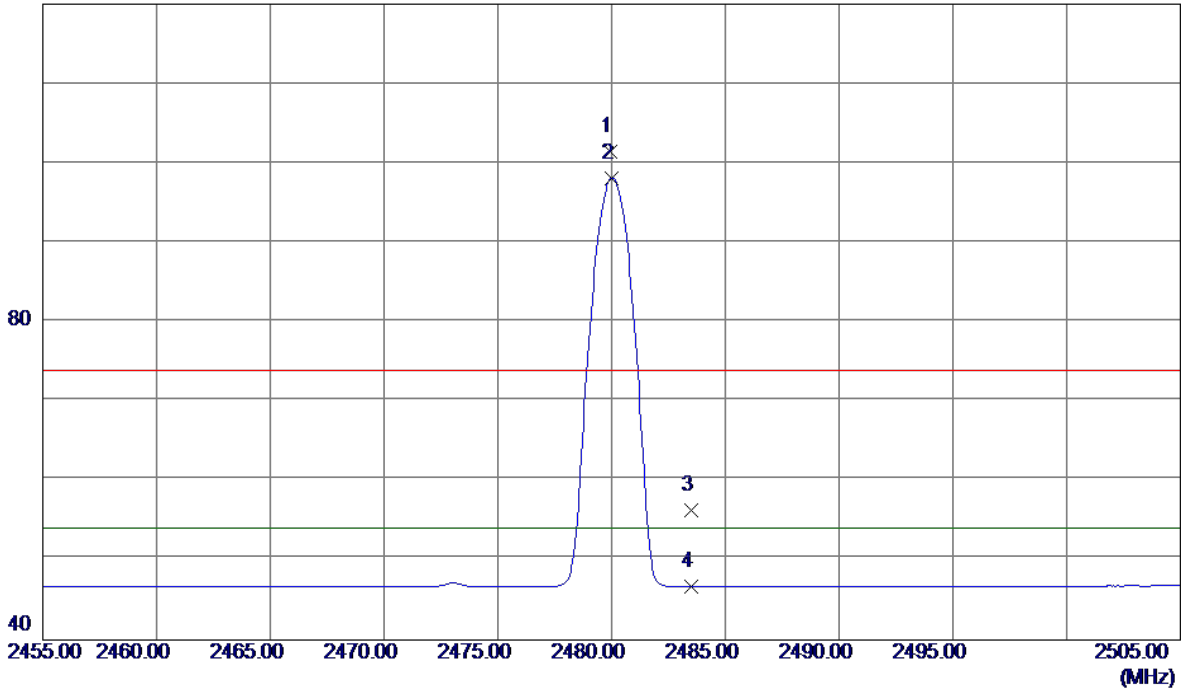


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

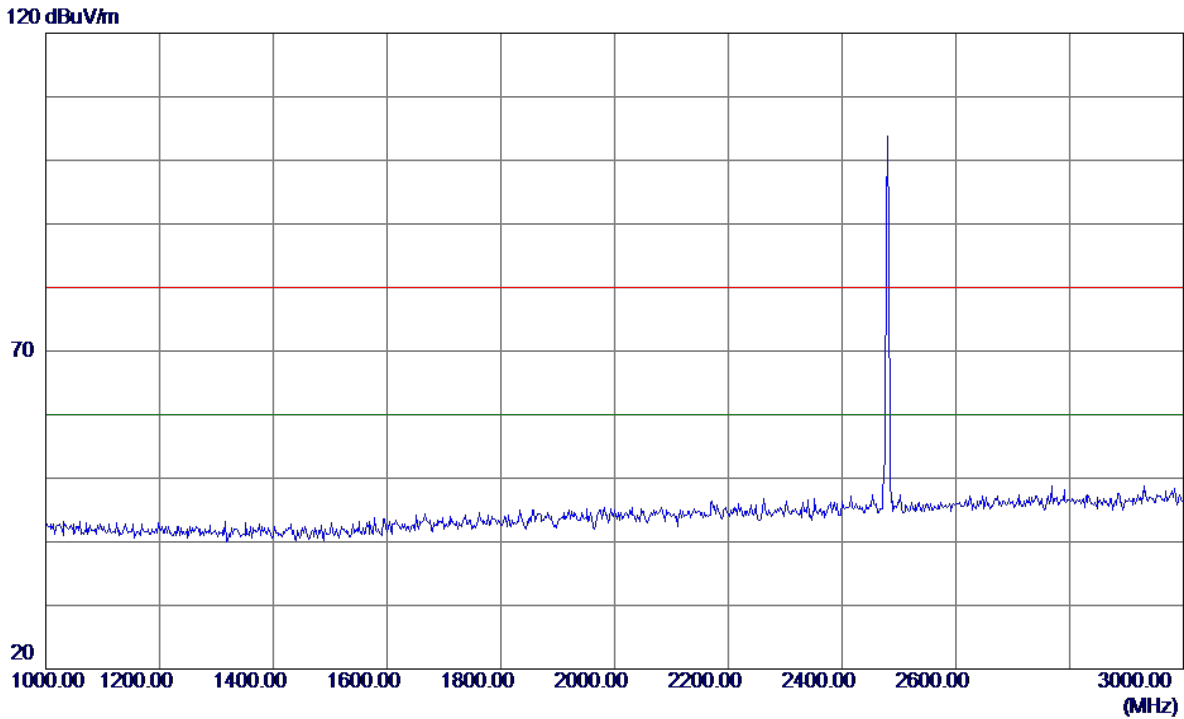
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9500	68.07	33.39	101.46	74.00	27.46	Peak	No Limit
2 *	2480.0000	64.77	33.39	98.16	54.00	44.16	AVG	No Limit
3	2483.5000	22.93	33.41	56.34	74.00	-17.66	Peak	
4	2483.5000	13.29	33.41	46.70	54.00	-7.30	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

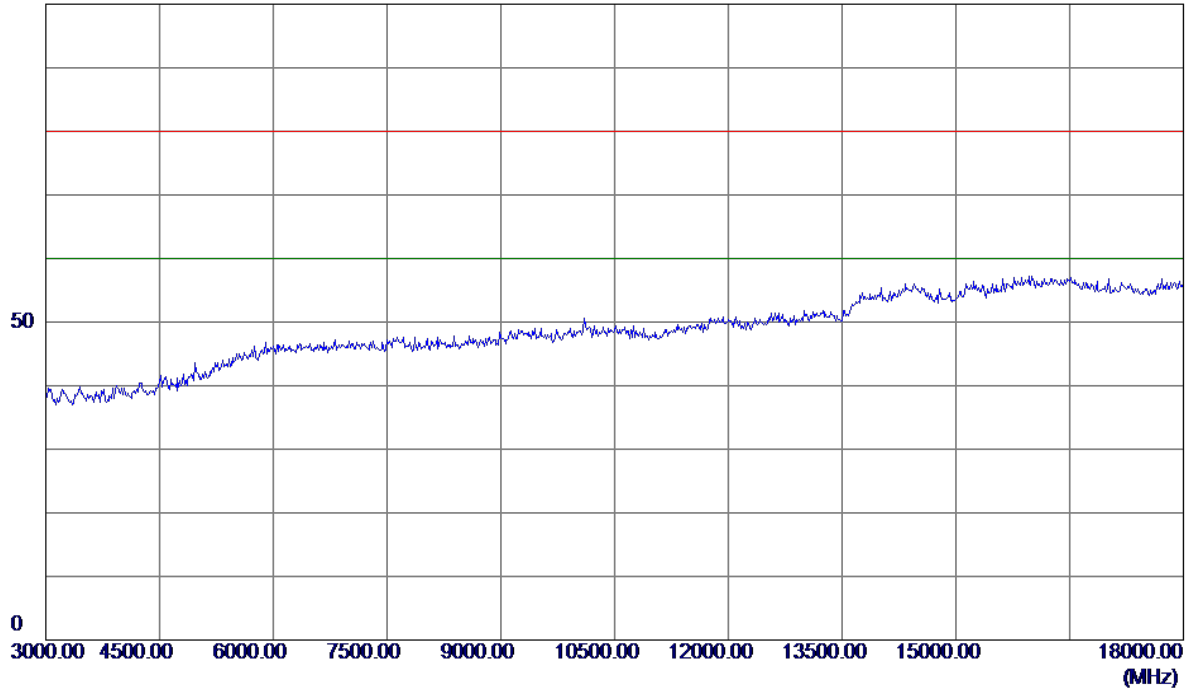


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

100 dBuV/m

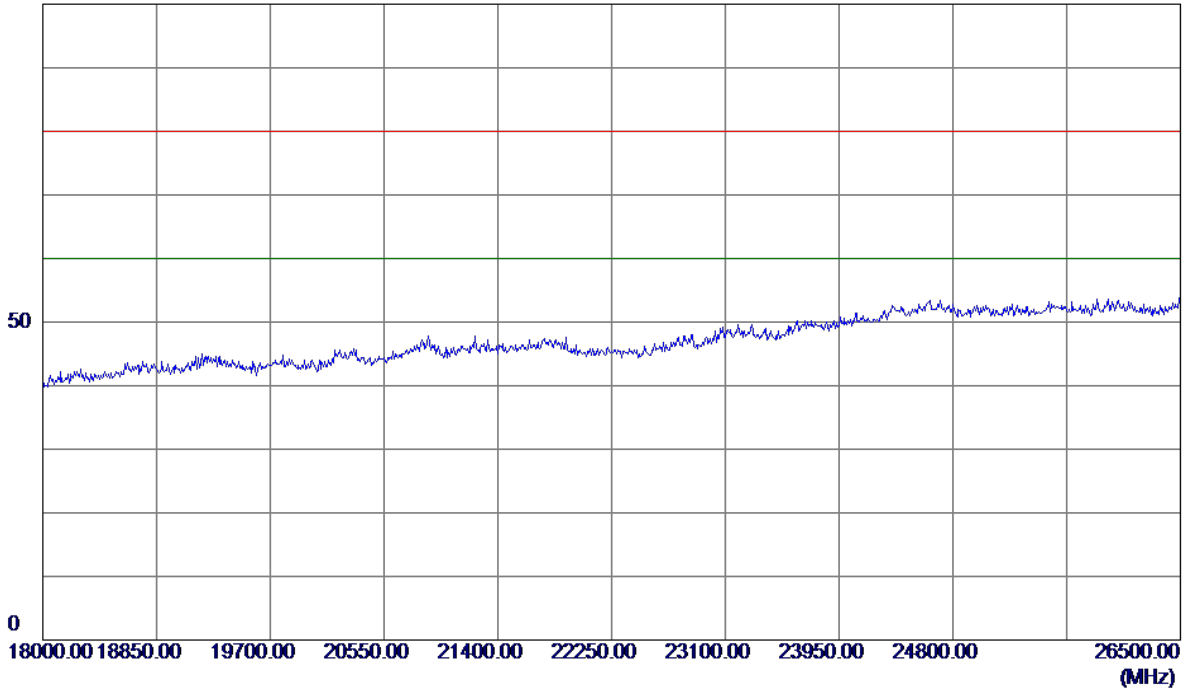


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

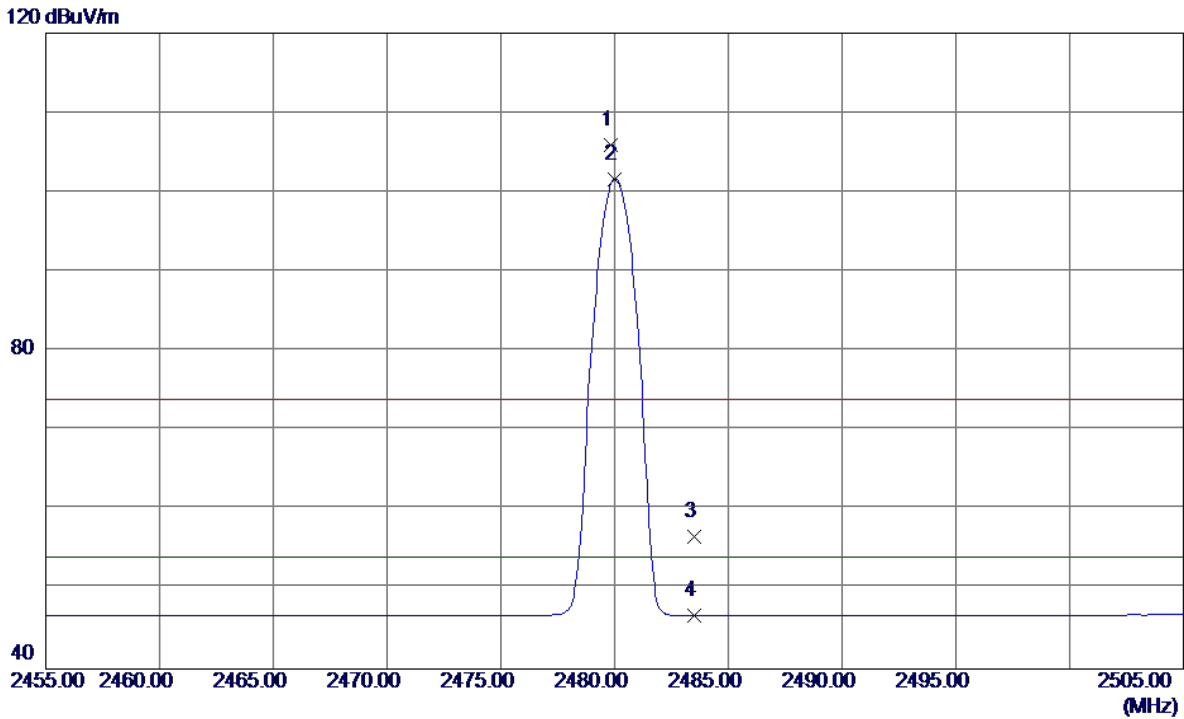
100 dBuV/m



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

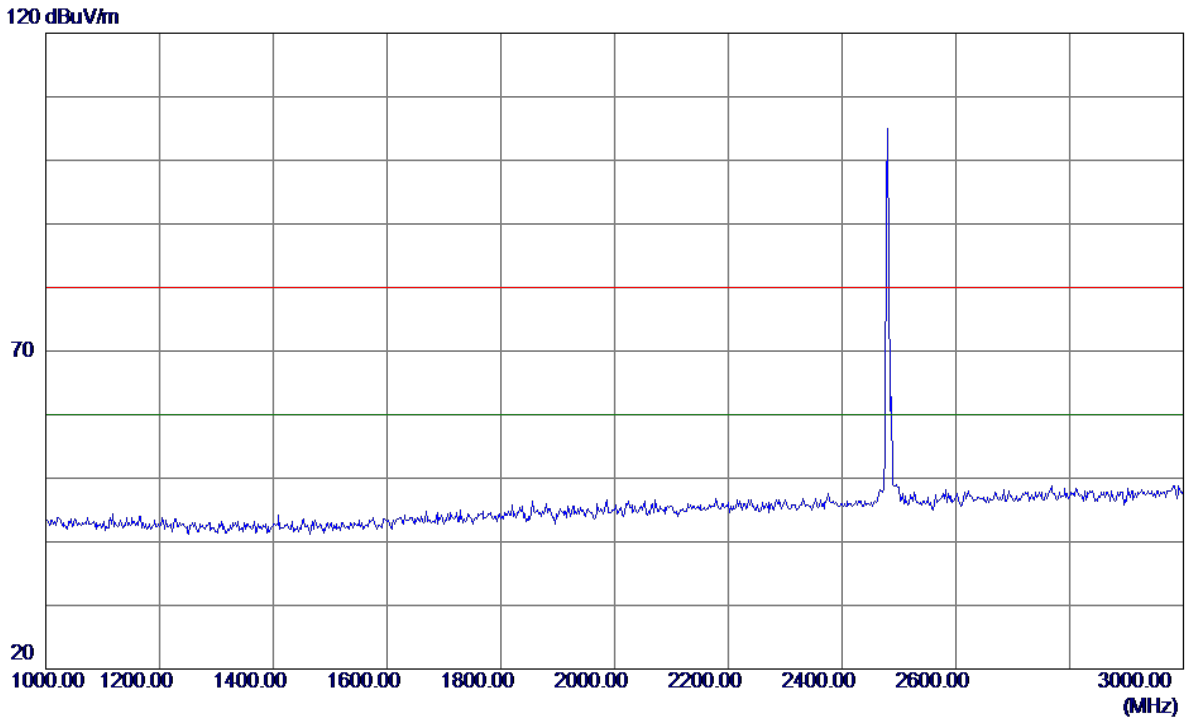
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	72.56	33.39	105.95	74.00	31.95	Peak	No Limit
2 *	2480.0000	68.23	33.39	101.62	54.00	47.62	AVG	No Limit
3	2483.5000	23.30	33.41	56.71	74.00	-17.29	Peak	
4	2483.5000	13.28	33.41	46.69	54.00	-7.31	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

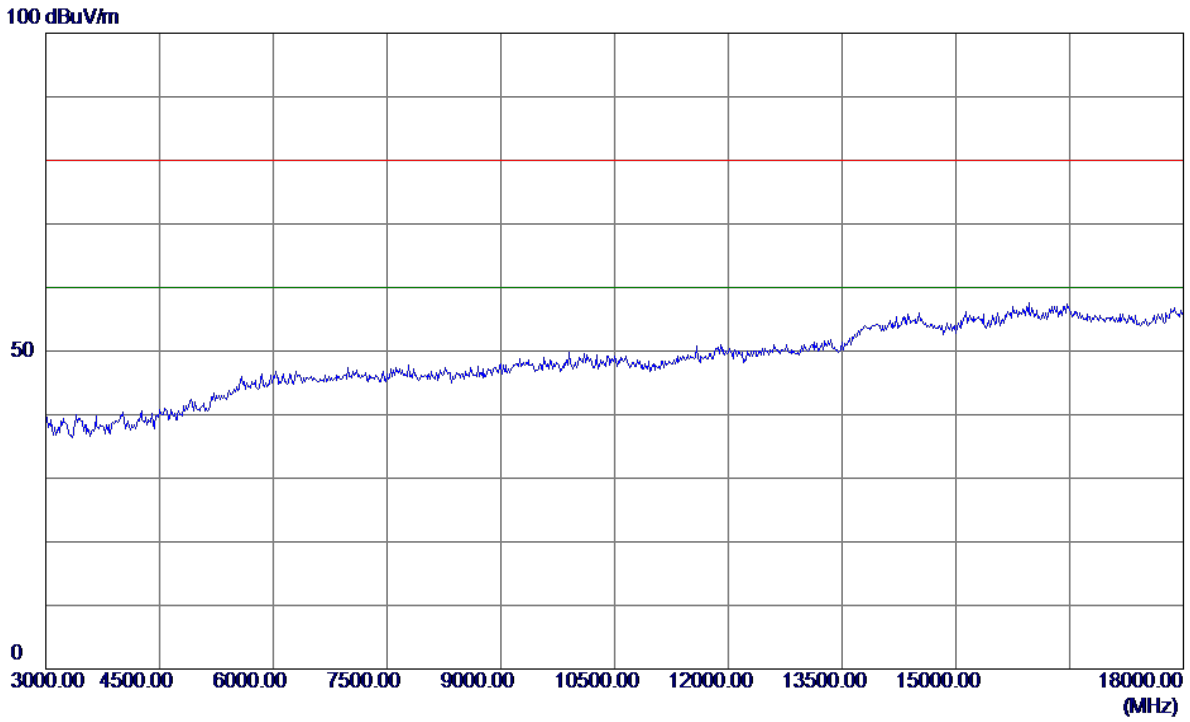
Horizontal



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

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

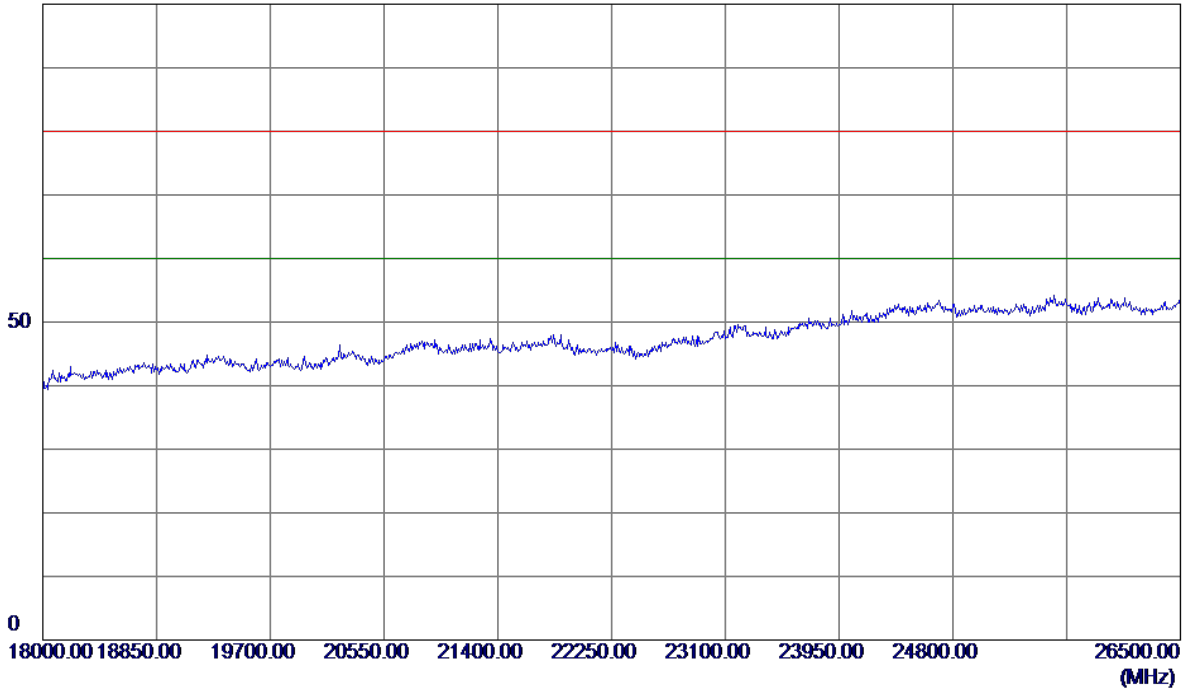


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

100 dBuV/m

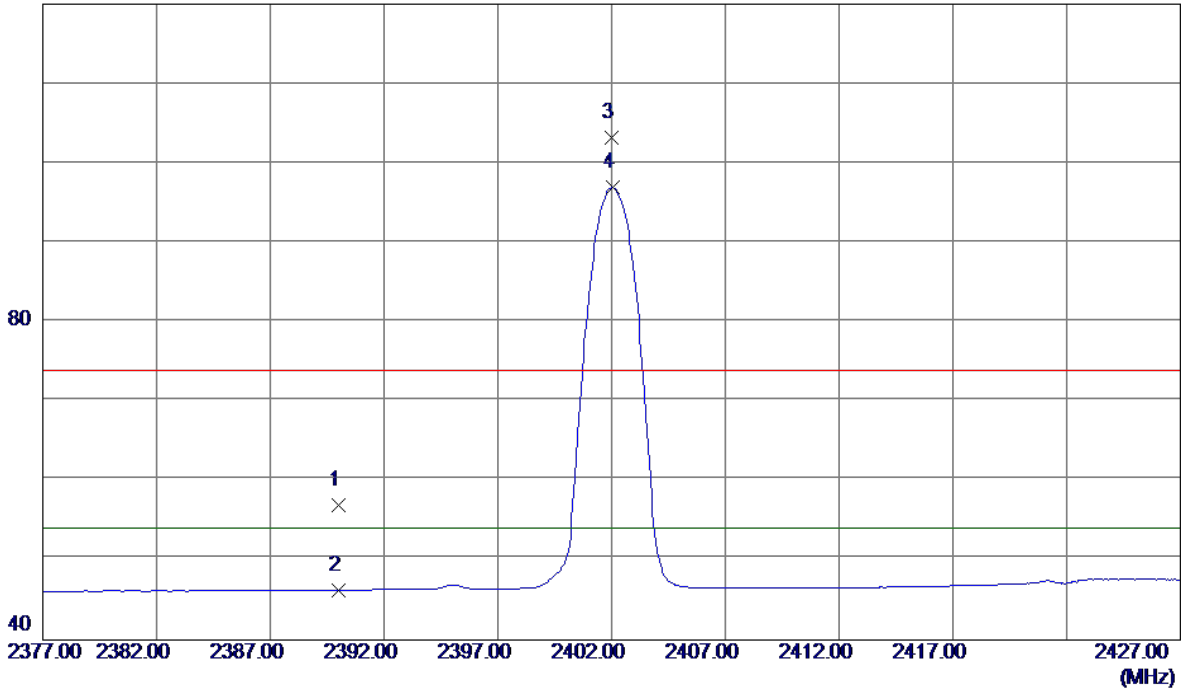


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

120 dBuV/m

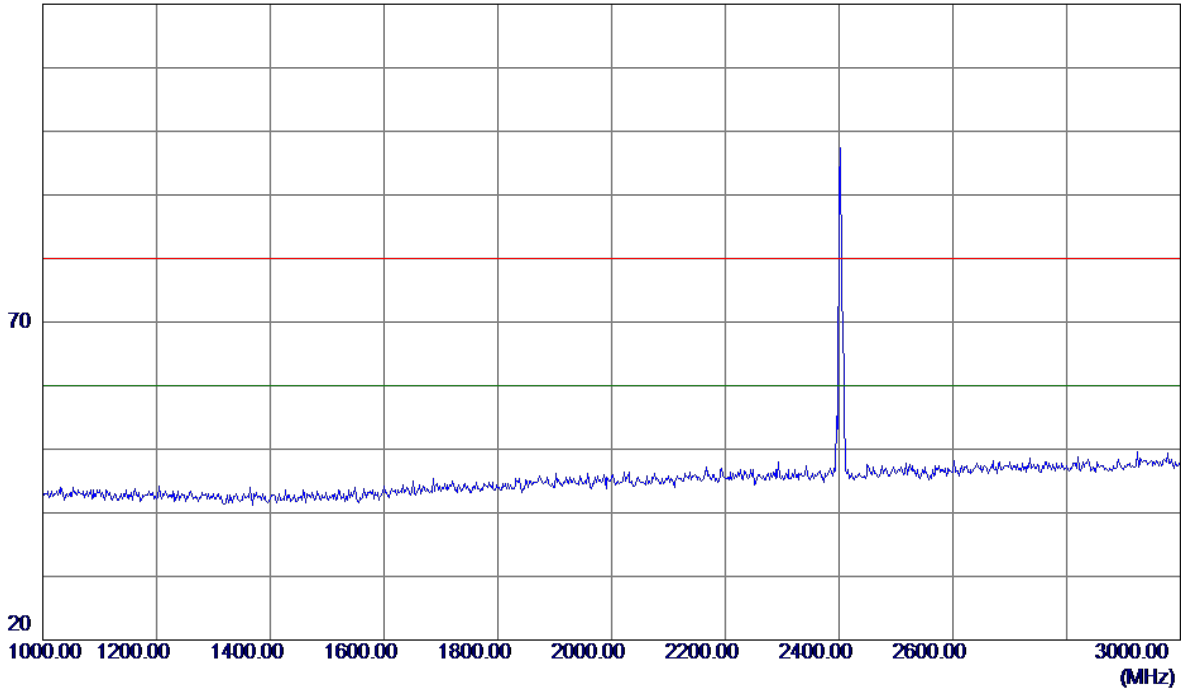


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.85	33.06	56.91	74.00	-17.09	Peak	
2	2390.0000	13.23	33.06	46.29	54.00	-7.71	AVG	
3	2402.0000	70.12	33.10	103.22	74.00	29.22	Peak	No Limit
4 *	2402.0500	63.79	33.10	96.89	54.00	42.89	AVG	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

120 dBuV/m

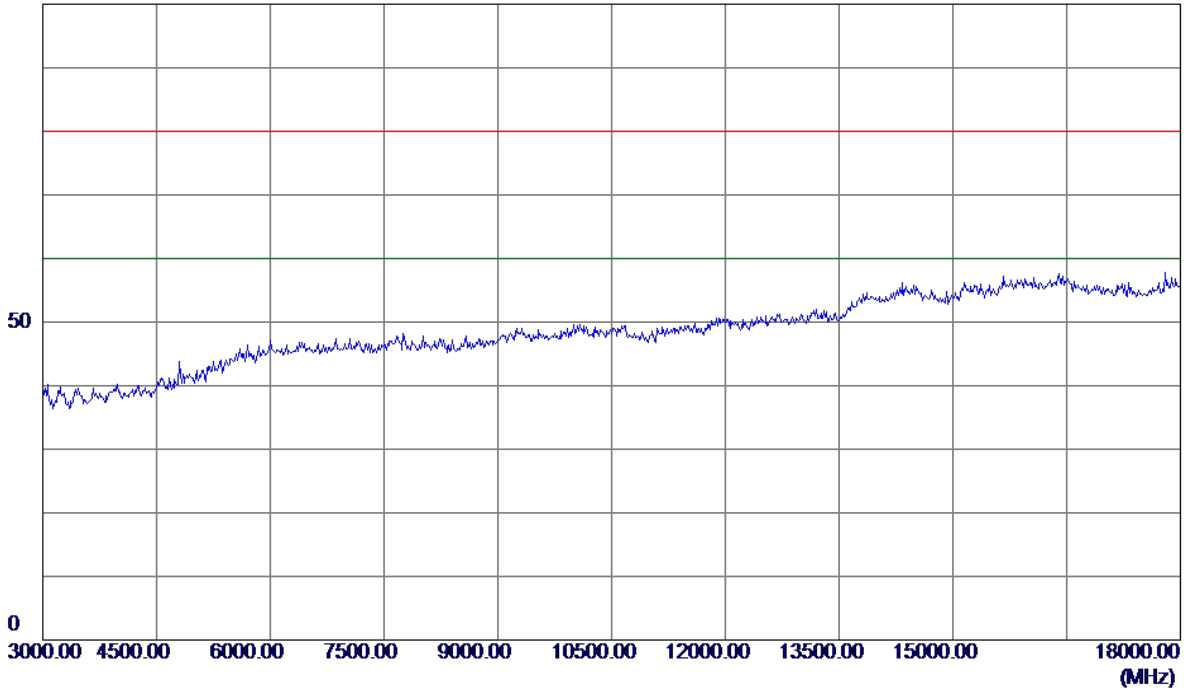


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment

Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

100 dBuV/m

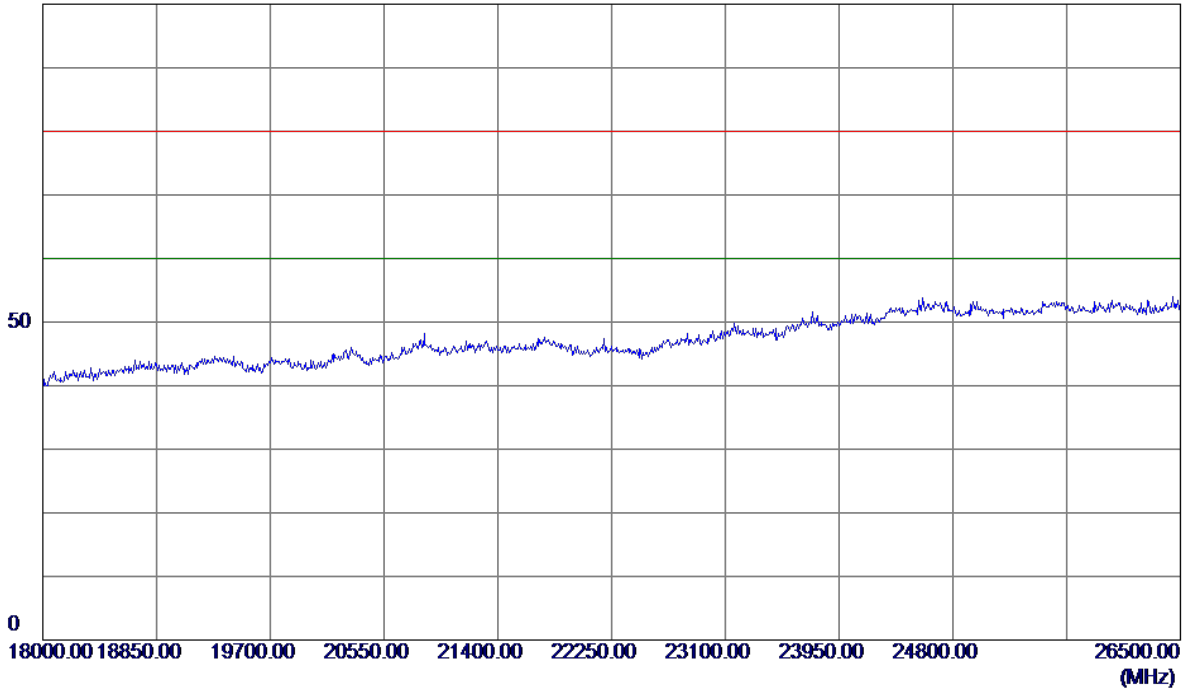


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

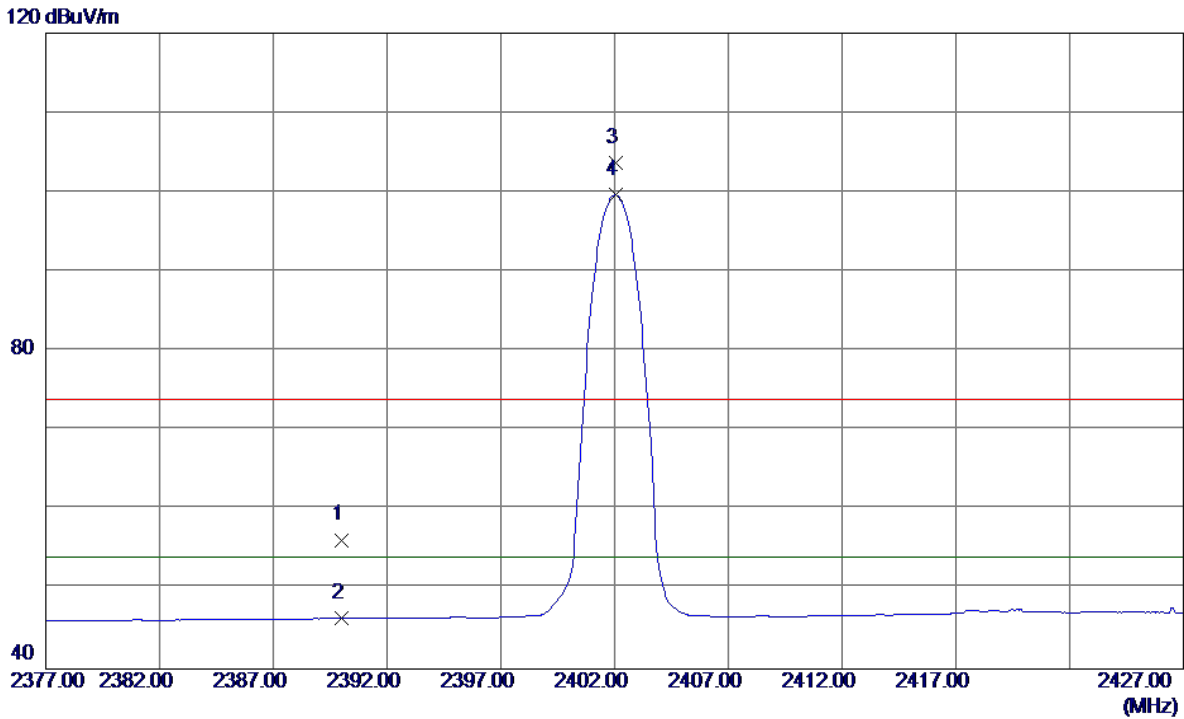
100 dBuV/m



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

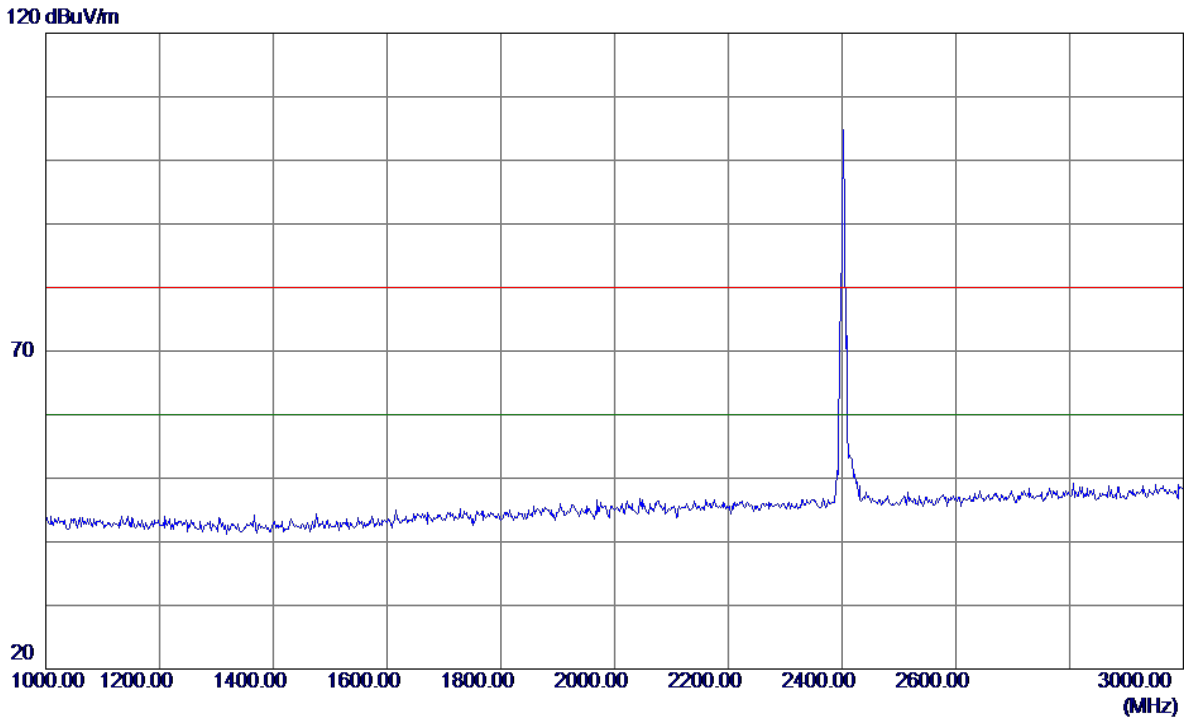
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	23.18	33.06	56.24	74.00	-17.76	Peak	
2	2390.0000	13.27	33.06	46.33	54.00	-7.67	AVG	
3	2402.0500	70.58	33.10	103.68	74.00	29.68	Peak	No Limit
4 *	2402.0500	66.52	33.10	99.62	54.00	45.62	AVG	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

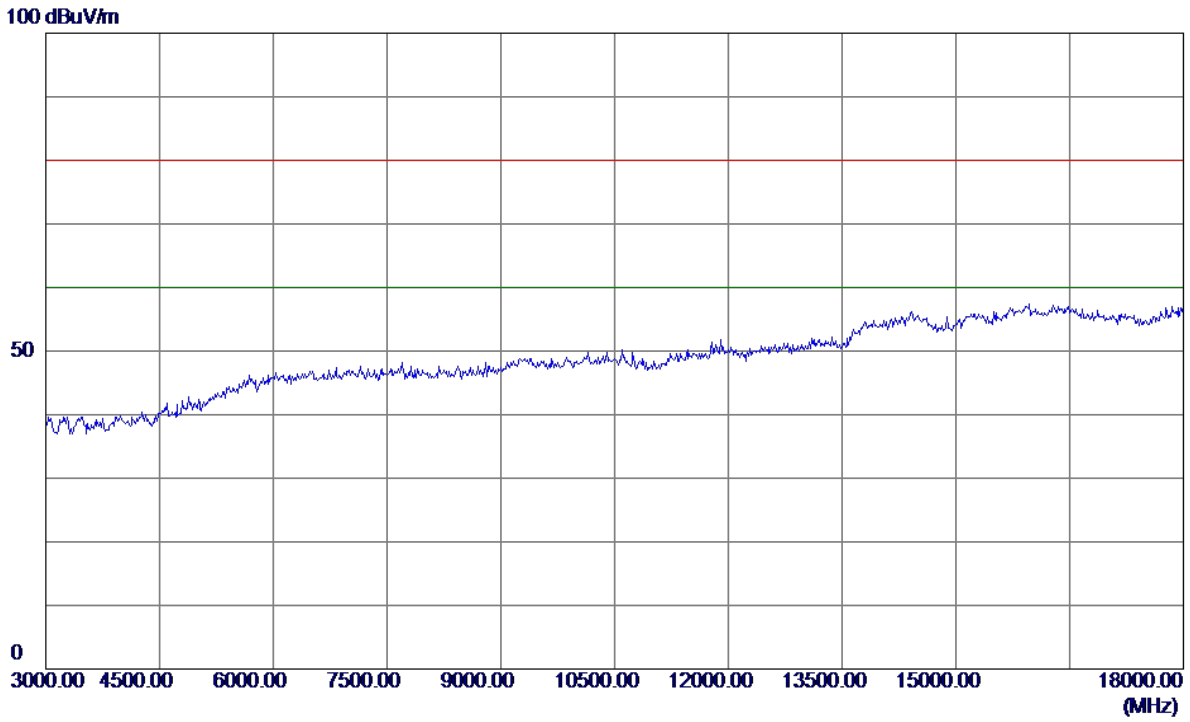
Horizontal



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

Horizontal

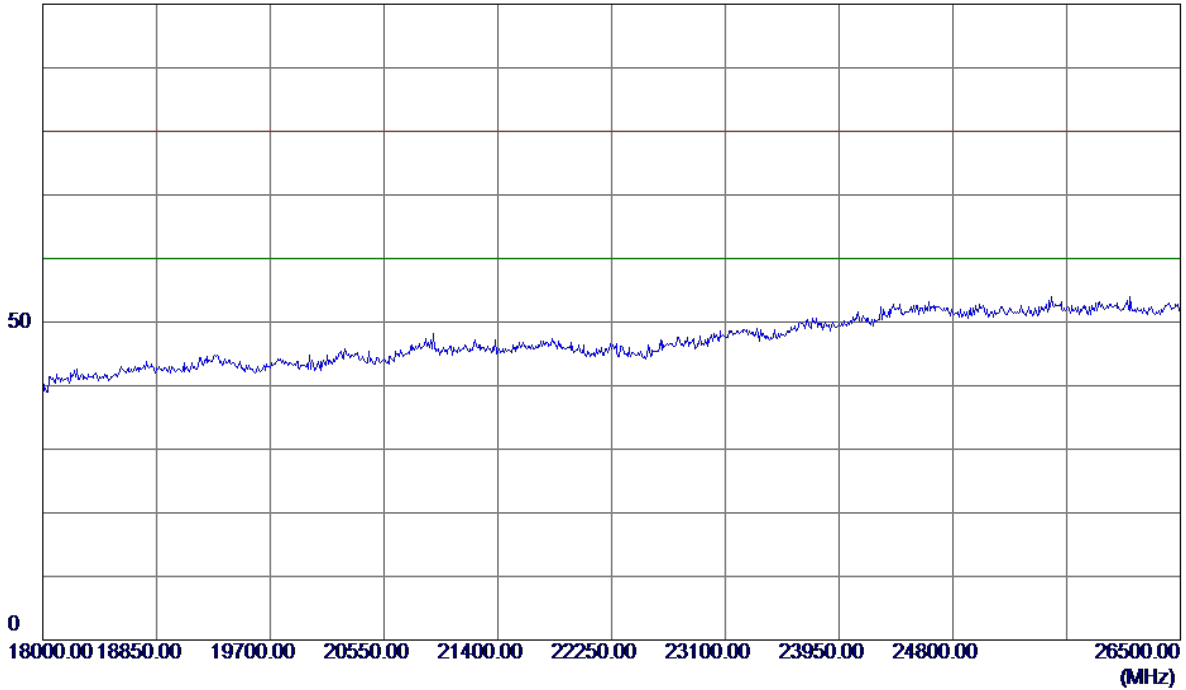


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal

100 dBuV/m

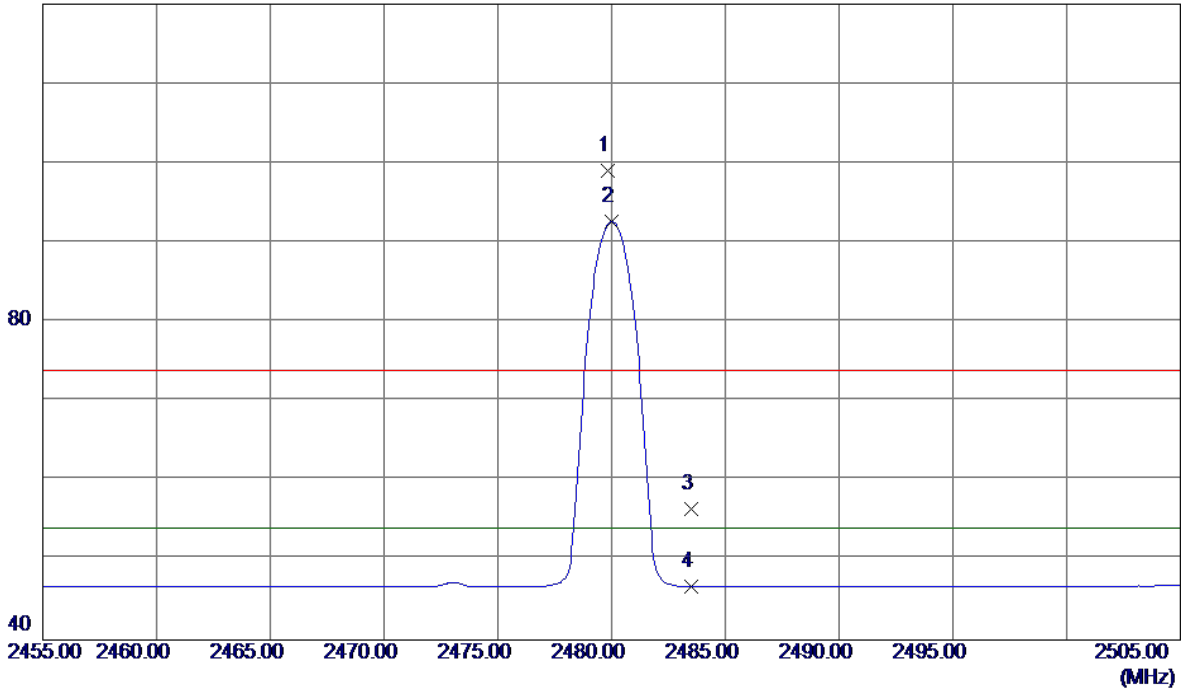


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

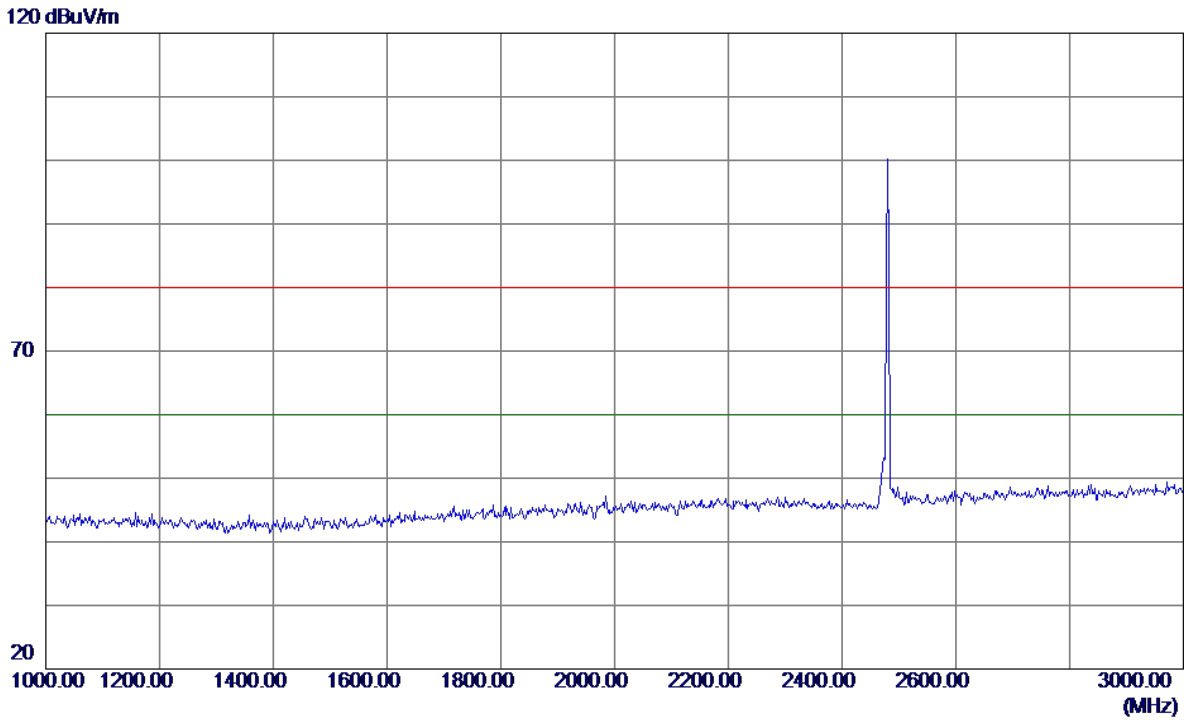
120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	65.67	33.39	99.06	74.00	25.06	Peak	No Limit
2 *	2480.0000	59.21	33.39	92.60	54.00	38.60	AVG	No Limit
3	2483.5000	23.09	33.41	56.50	74.00	-17.50	Peak	
4	2483.5000	13.29	33.41	46.70	54.00	-7.30	AVG	

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

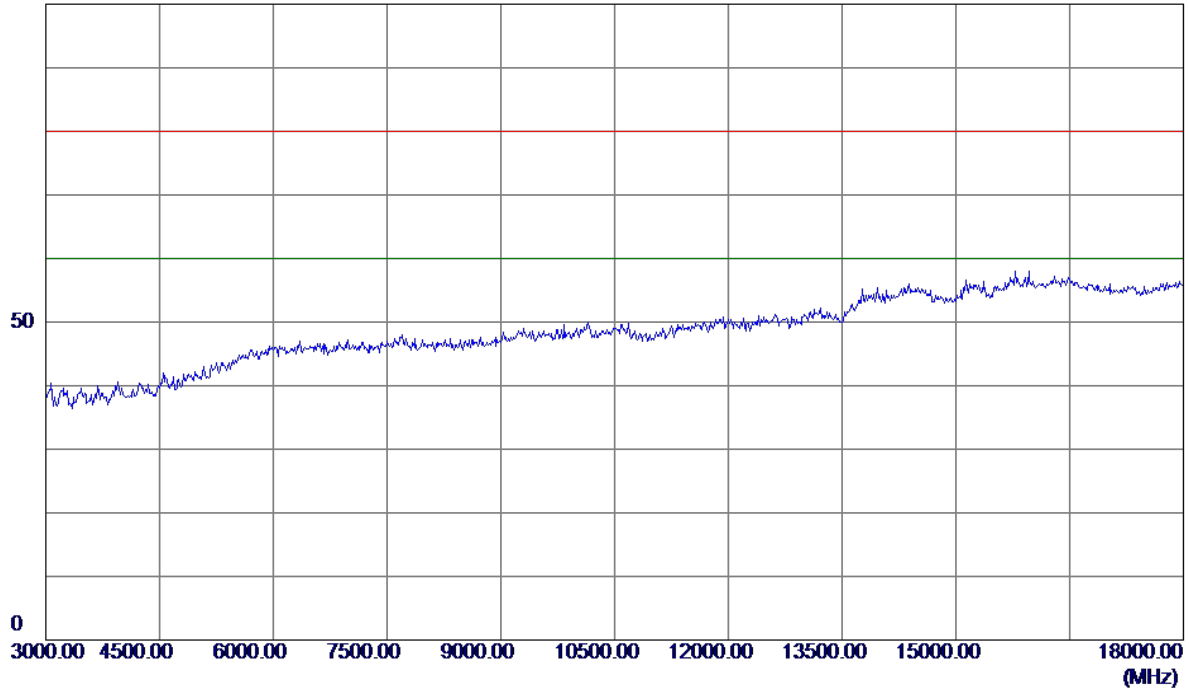


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

100 dBuV/m

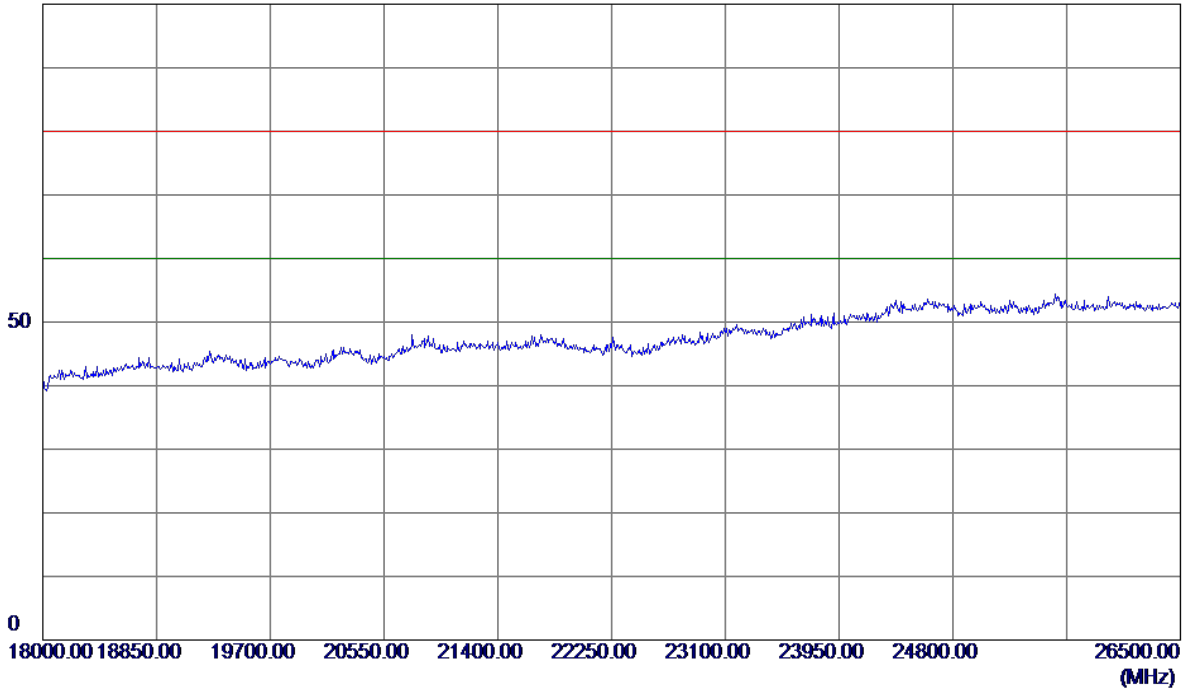


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

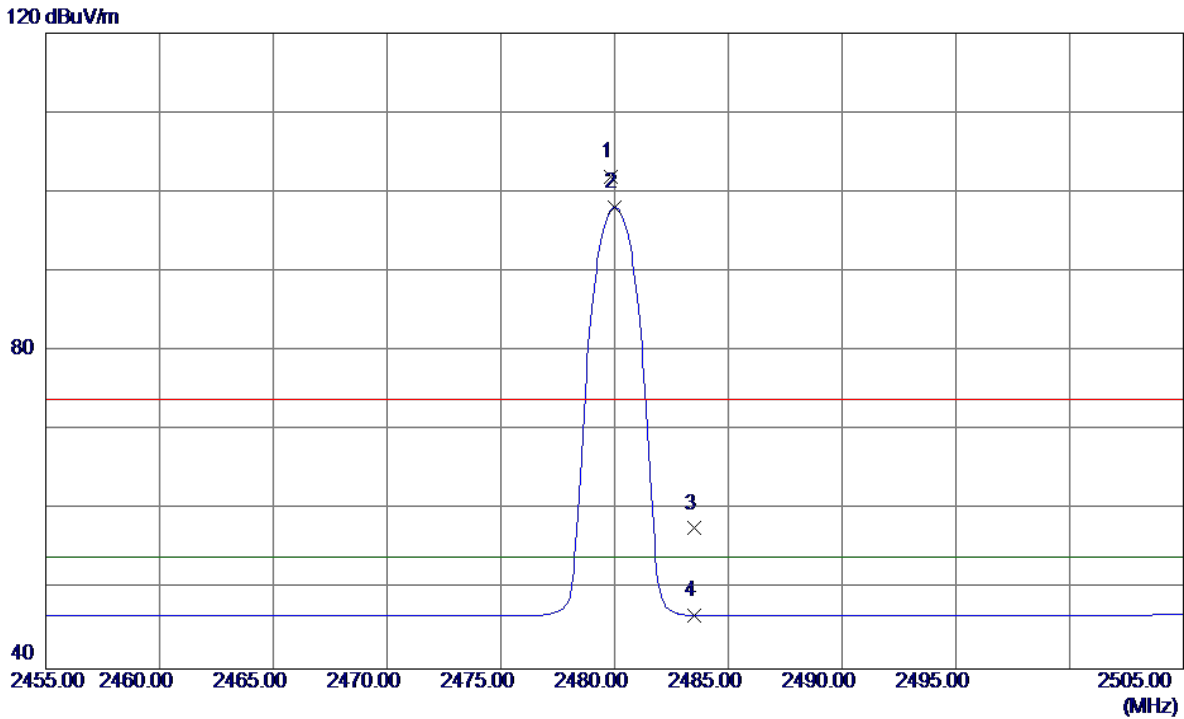
100 dBuV/m



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

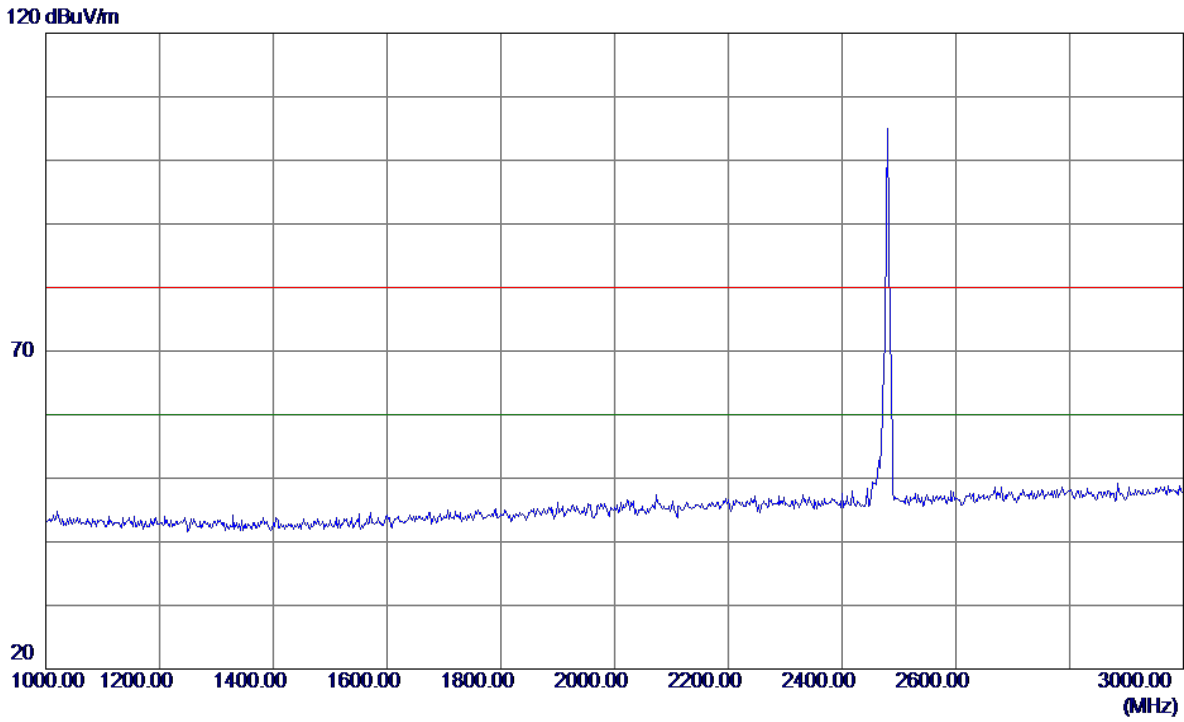
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	68.56	33.39	101.95	74.00	27.95	Peak	No Limit
2 *	2480.0000	64.66	33.39	98.05	54.00	44.05	AVG	No Limit
3	2483.5000	24.27	33.41	57.68	74.00	-16.32	Peak	
4	2483.5000	13.29	33.41	46.70	54.00	-7.30	AVG	

Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

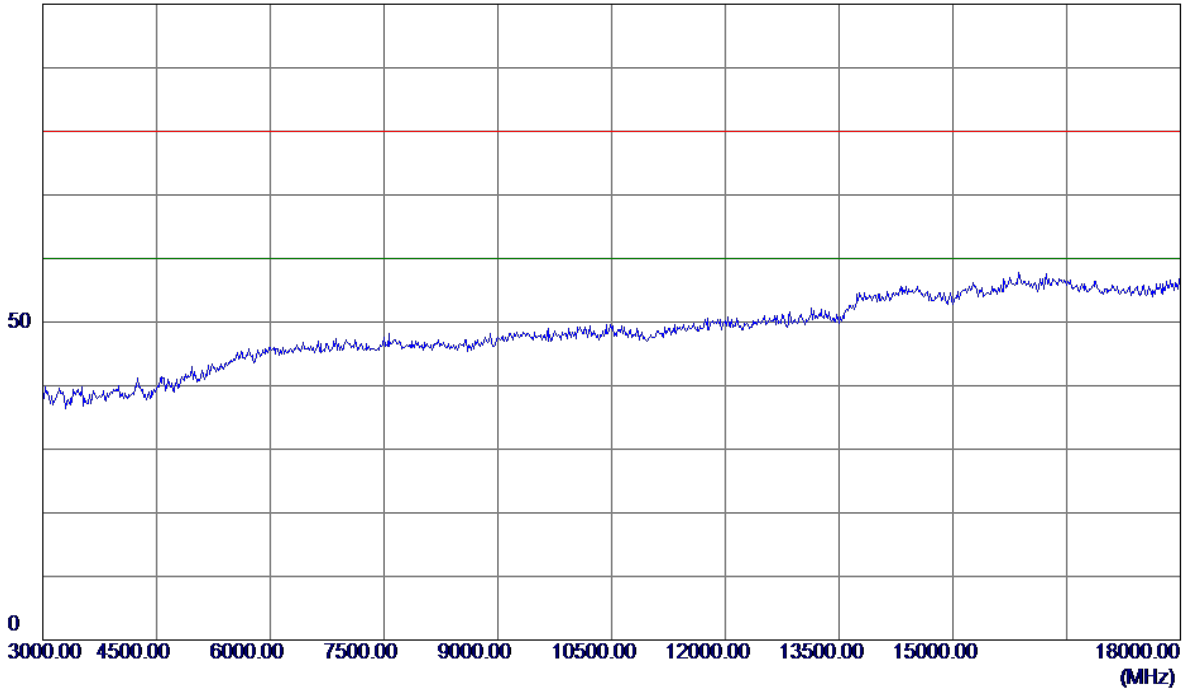


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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Test Mode : TX 2480MHz _CH78_3Mbps

Horizontal

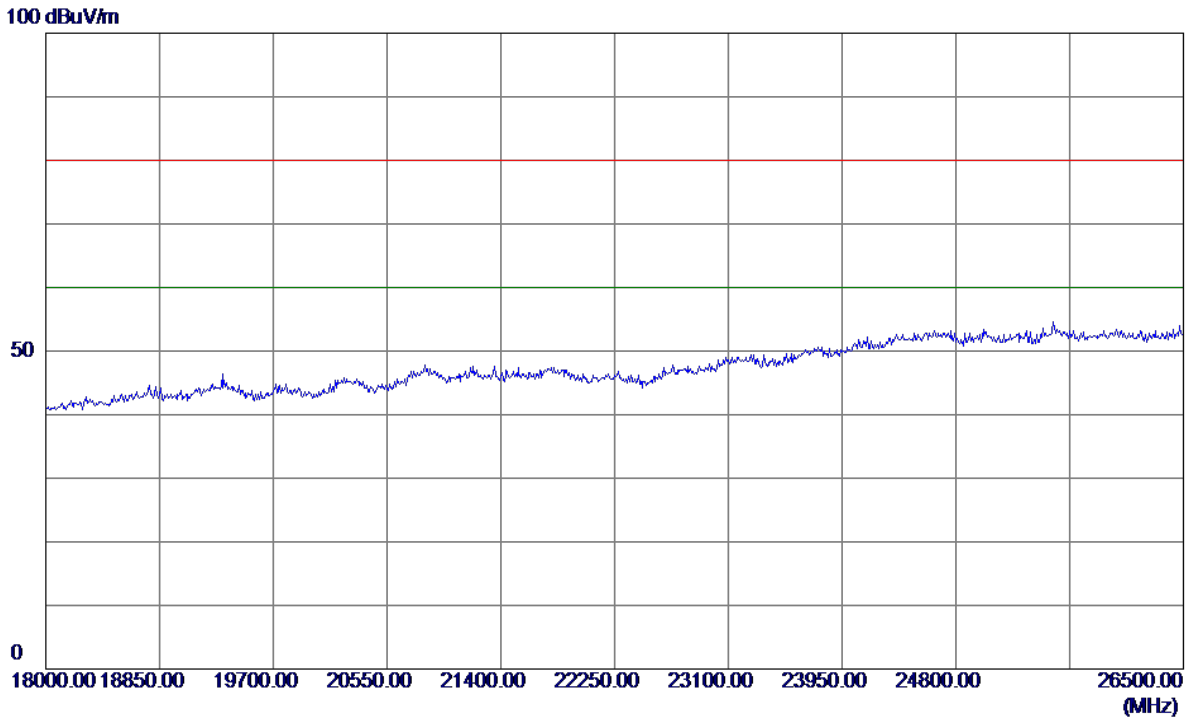
100 dBuV/m



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 2480MHz _CH78_3Mbps

Horizontal

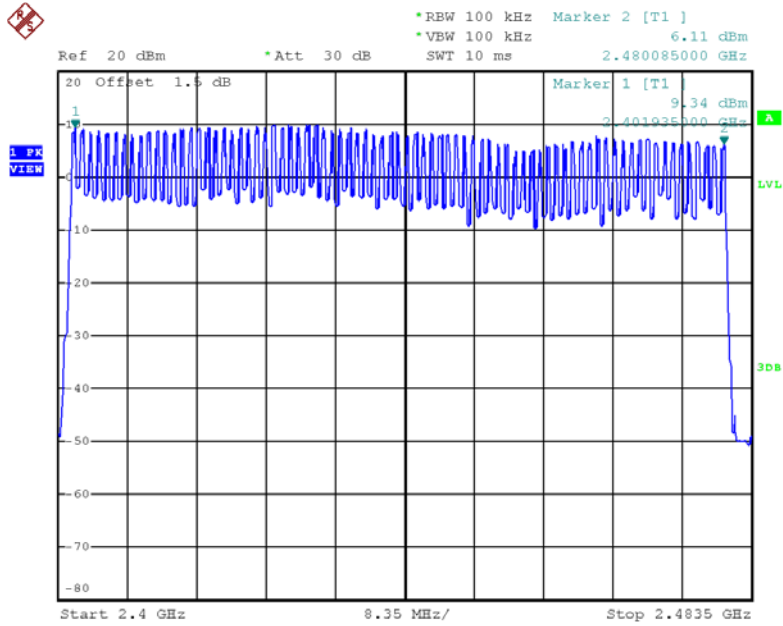


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
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APPENDIX E - NUMBER OF HOPPING CHANNEL

Test Mode Hopping Mode_1Mbps

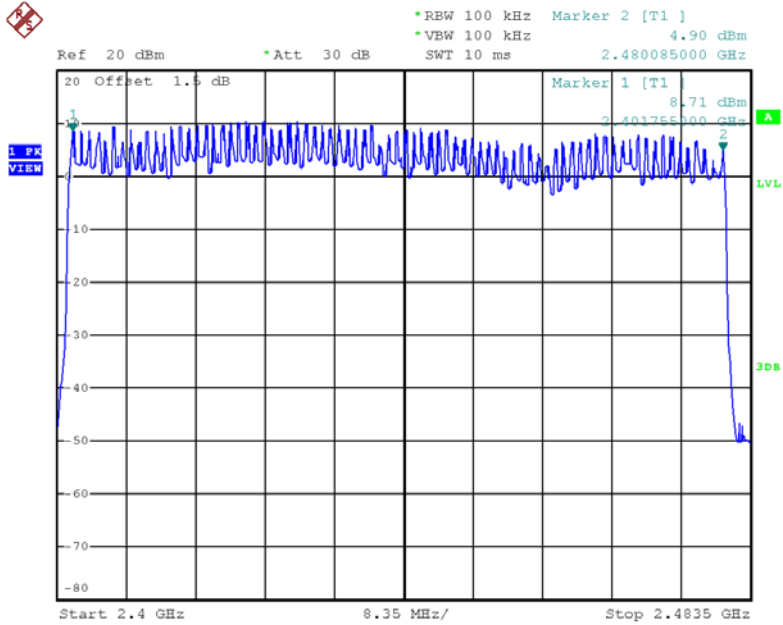
Number of Hopping Channel 79



Date: 18.DEC.2017 10:18:55

Test Mode Hopping Mode_3Mbps

Number of Hopping Channel 79



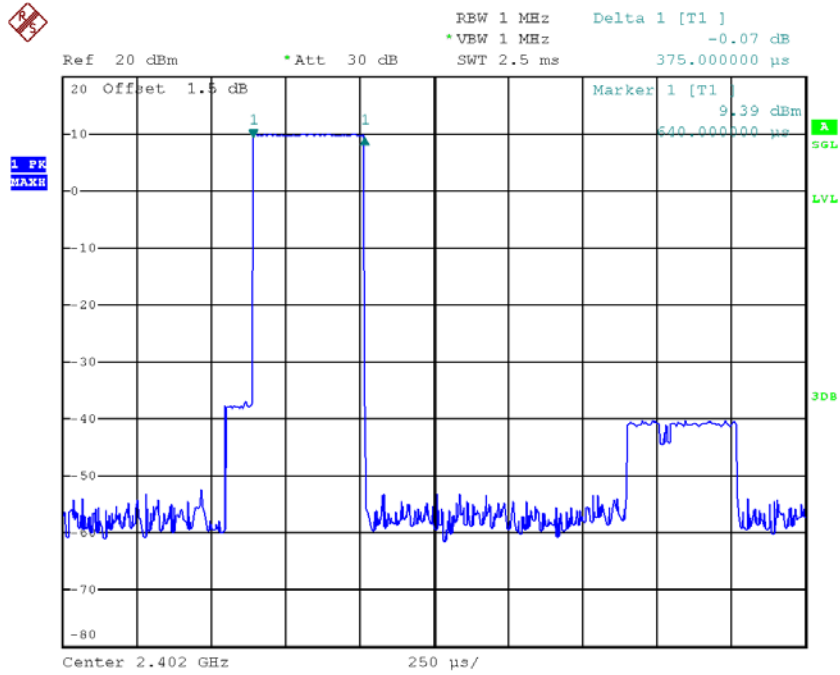
Date: 18.DEC.2017 10:47:18

APPENDIX F - AVERAGE TIME OF OCCUPANCY

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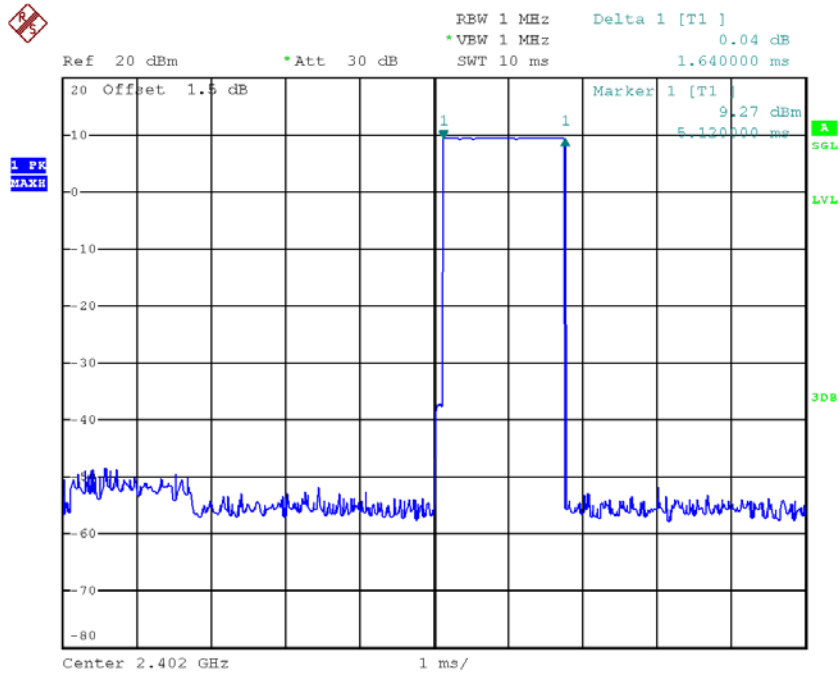
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3750	0.1200	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6200	0.2592	0.4000	Pass
DH1	2441	0.3750	0.1200	0.4000	Pass
DH5	2480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



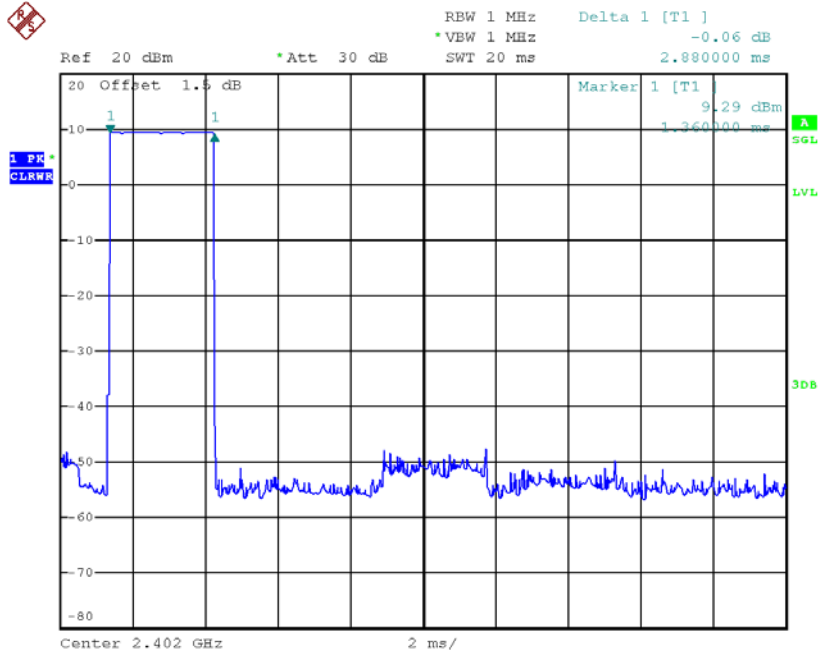
Date: 18.DEC.2017 10:05:06

CH00-DH3



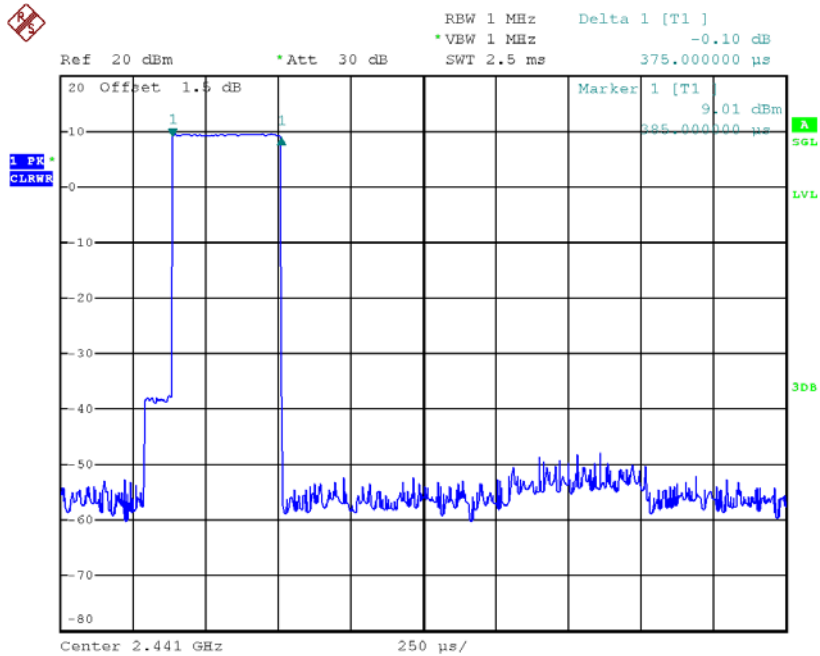
Date: 18.DEC.2017 10:20:27

CH00-DH5



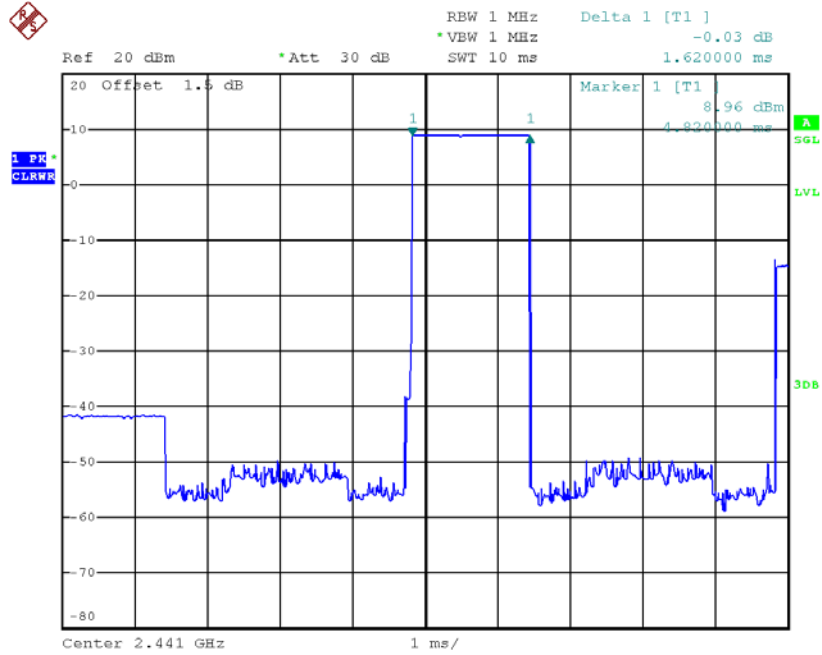
Date: 18.DEC.2017 10:21:20

CH39-DH1



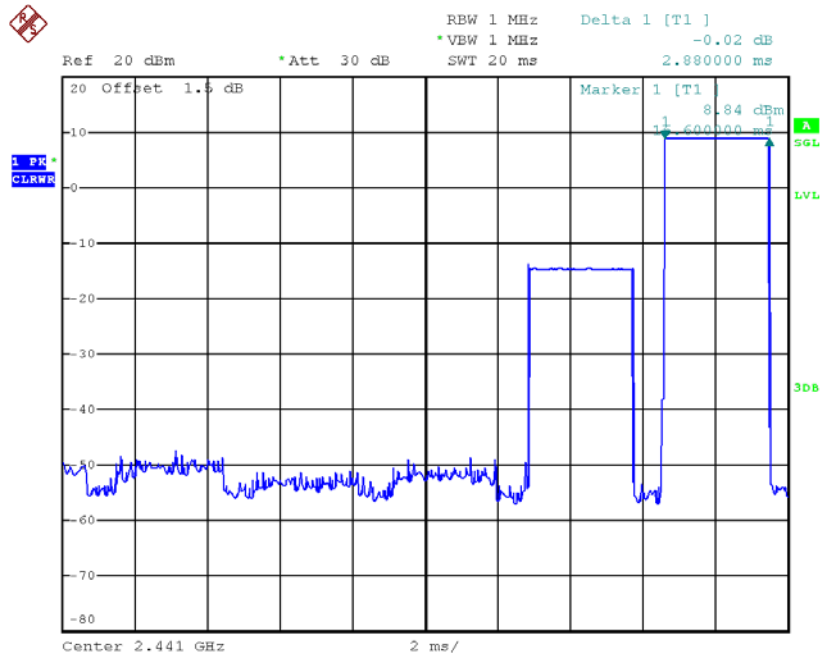
Date: 18.DEC.2017 10:05:11

CH39-DH3



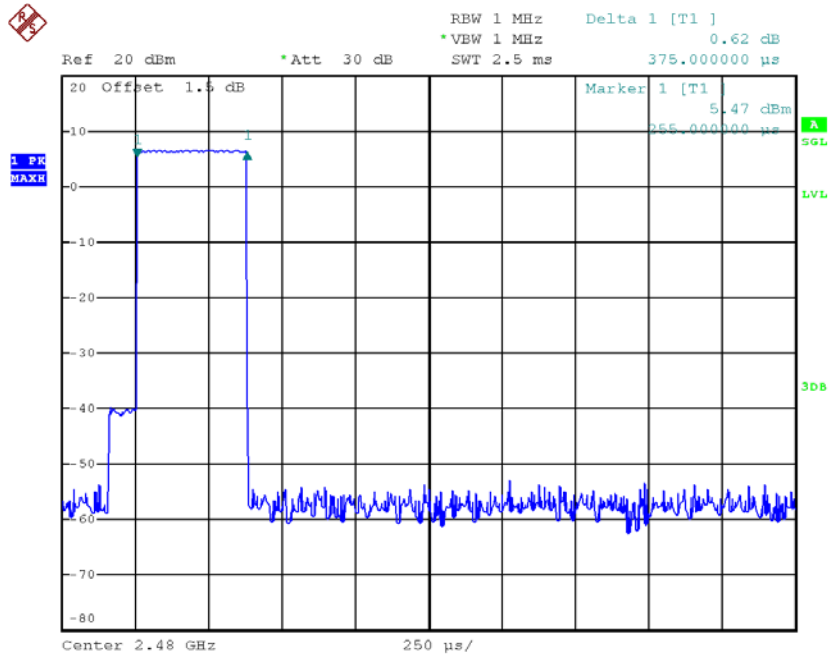
Date: 18.DEC.2017 10:20:45

CH39-DH5



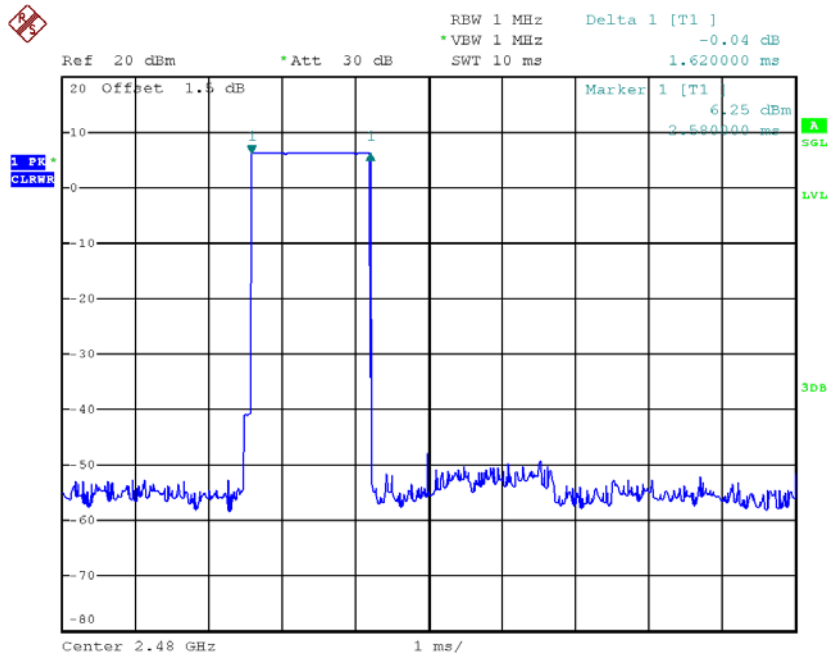
Date: 18.DEC.2017 10:21:25

CH78-DH1



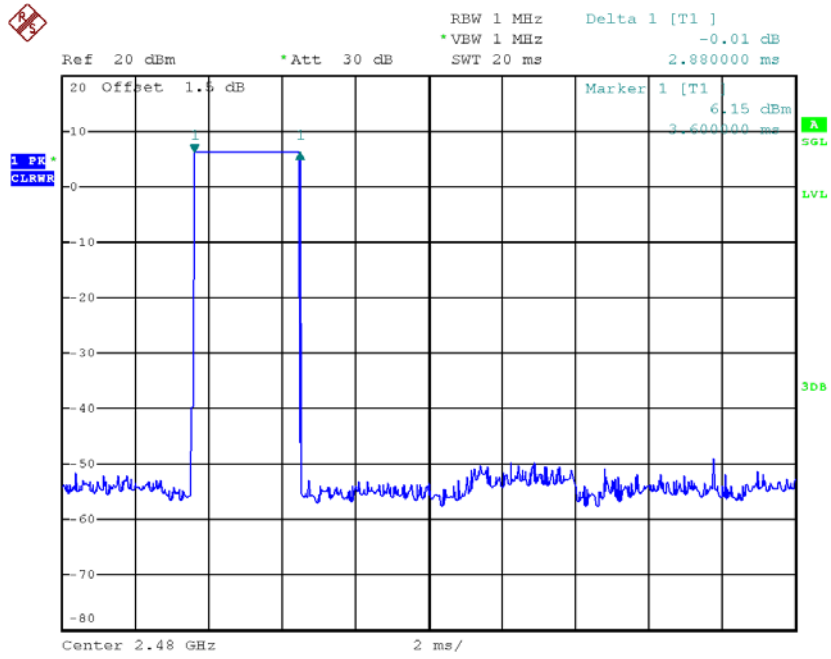
Date: 18.DEC.2017 10:11:19

CH78-DH3



Date: 18.DEC.2017 10:21:04

CH78-DH5

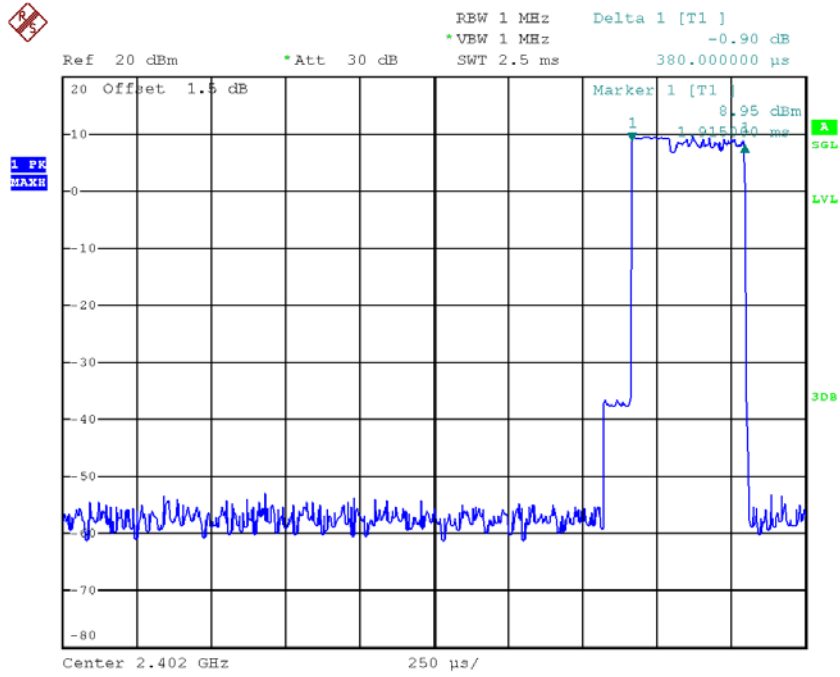


Date: 18.DEC.2017 10:21:30

Test Mode :	TX Mode_3Mbps
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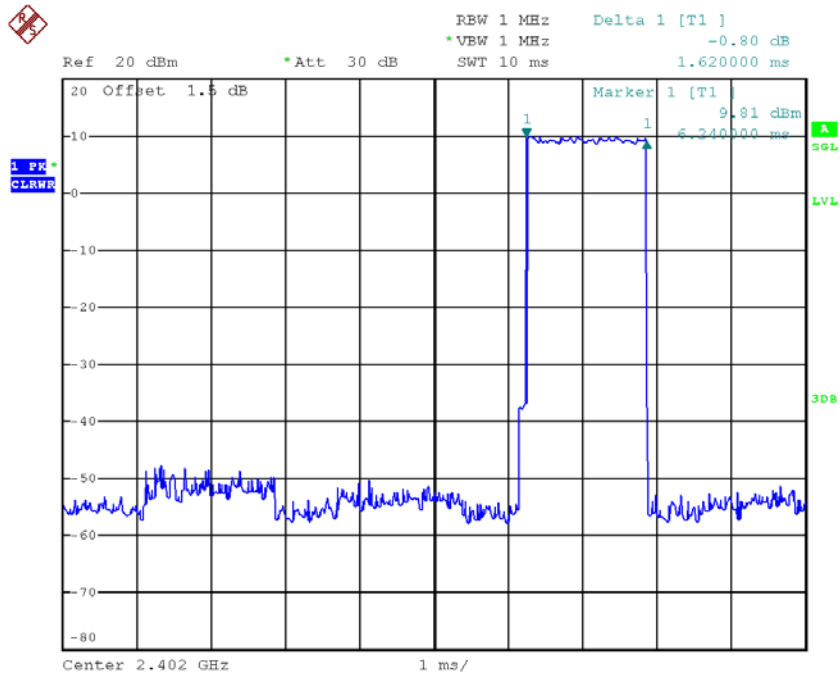
Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6200	0.2592	0.4000	Pass
DH1	2402	0.3800	0.1216	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3800	0.1216	0.4000	Pass
DH5	2480	2.8800	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



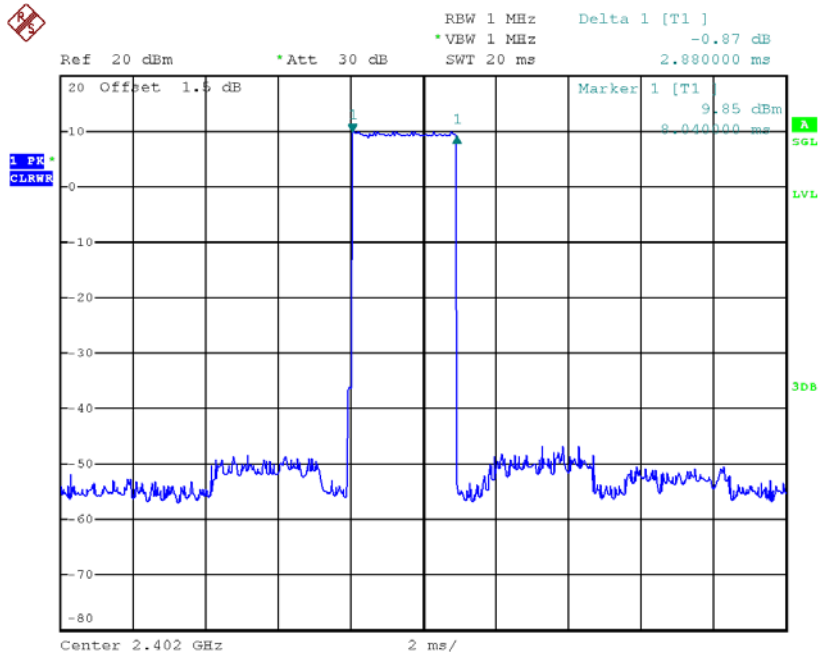
Date: 18.DEC.2017 10:28:17

CH00-DH3



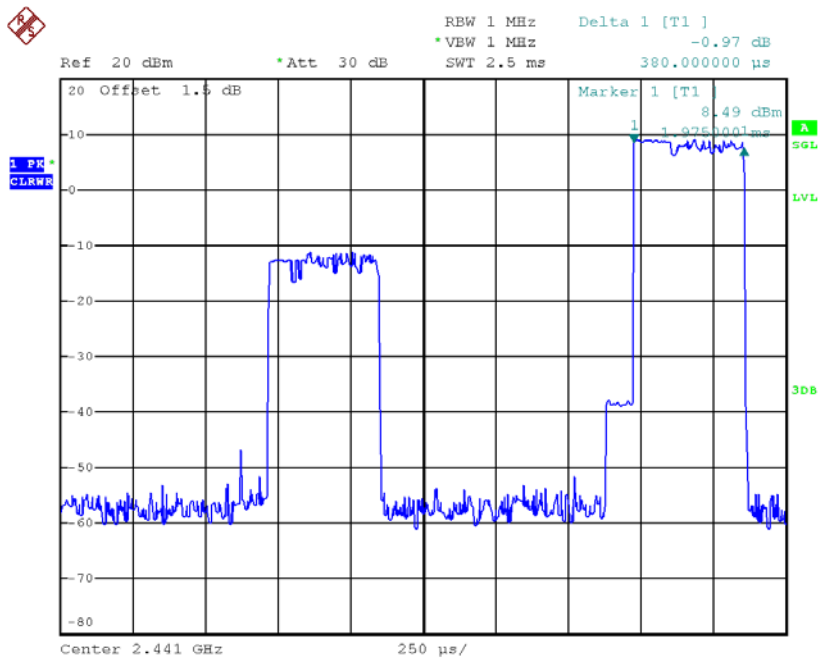
Date: 18.DEC.2017 10:49:15

CH00-DH5



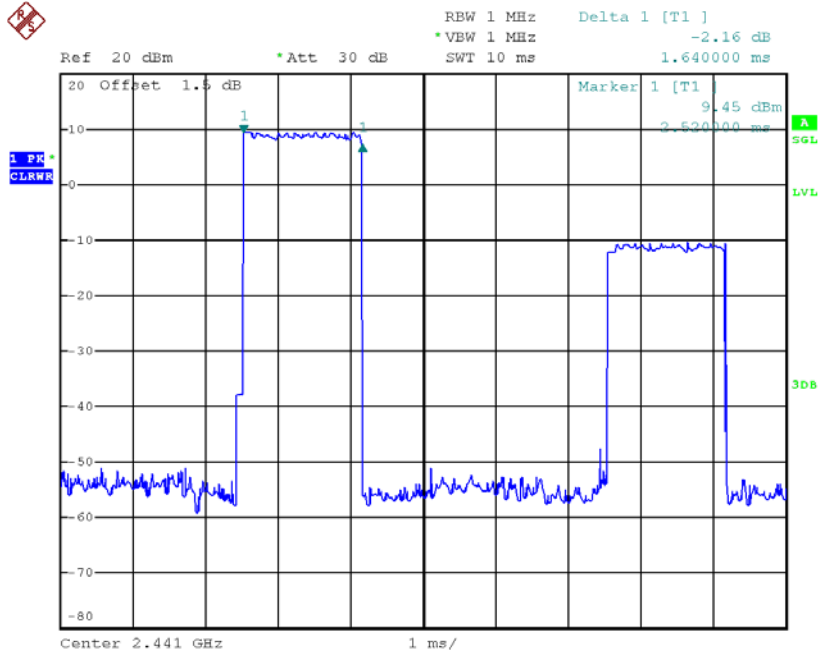
Date: 18.DEC.2017 10:51:32

CH39-DH1



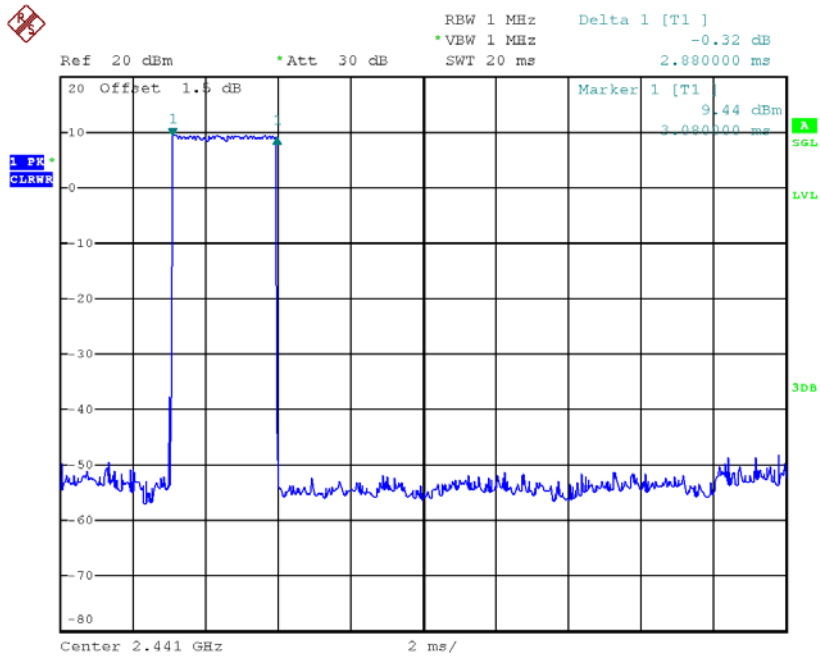
Date: 18.DEC.2017 10:29:49

CH39-DH3



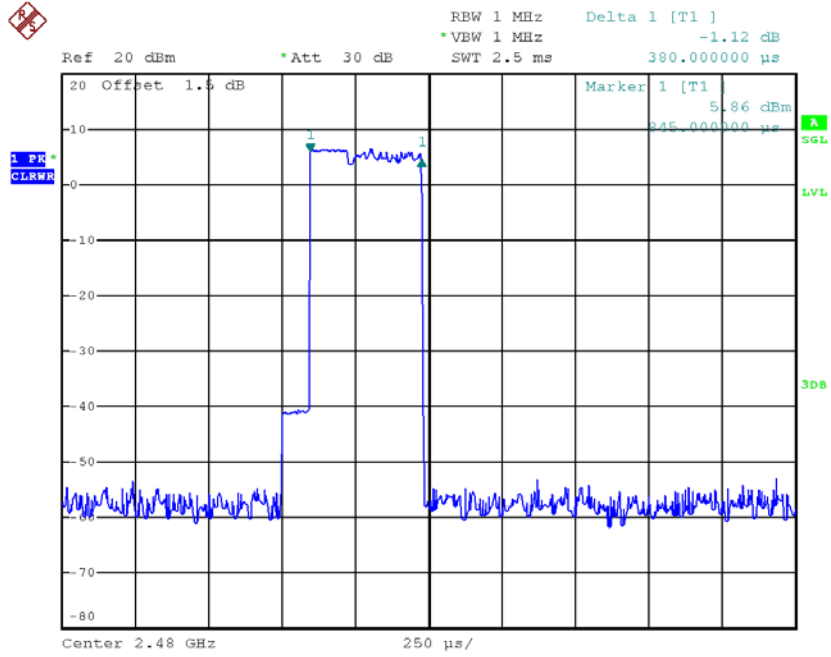
Date: 18.DEC.2017 10:49:22

CH39-DH5



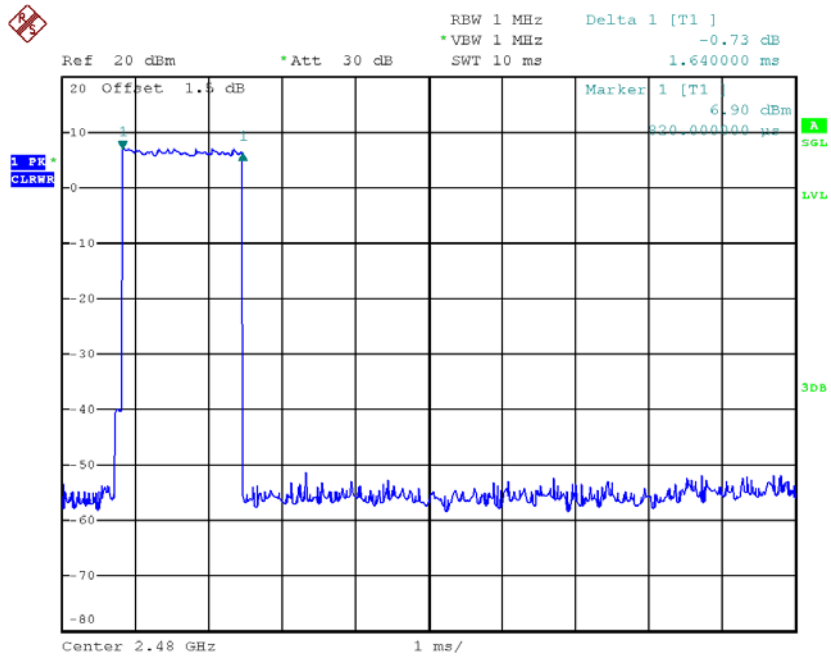
Date: 18.DEC.2017 10:50:48

CH78-DH1



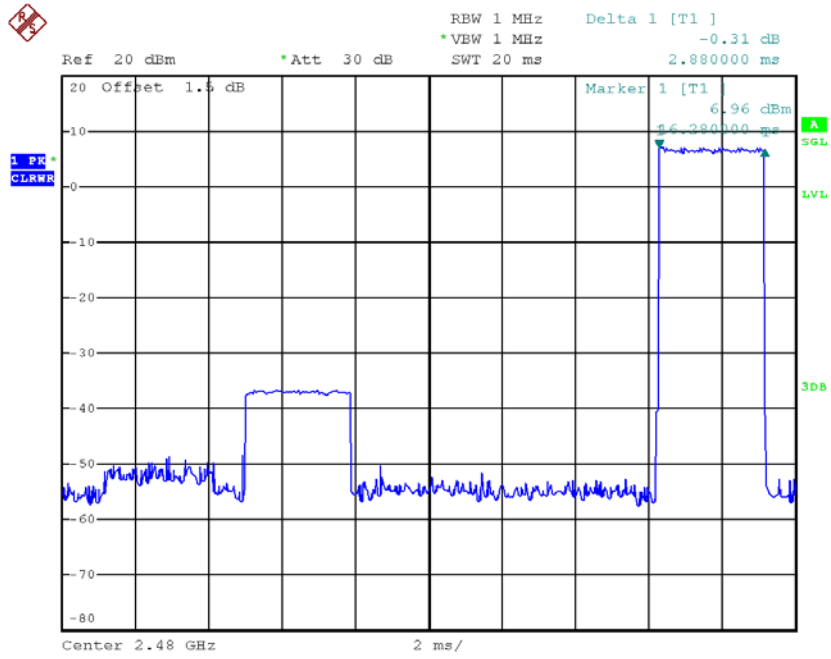
Date: 18.DEC.2017 10:30:03

CH78-DH3



Date: 18.DEC.2017 10:50:32

CH78-DH5

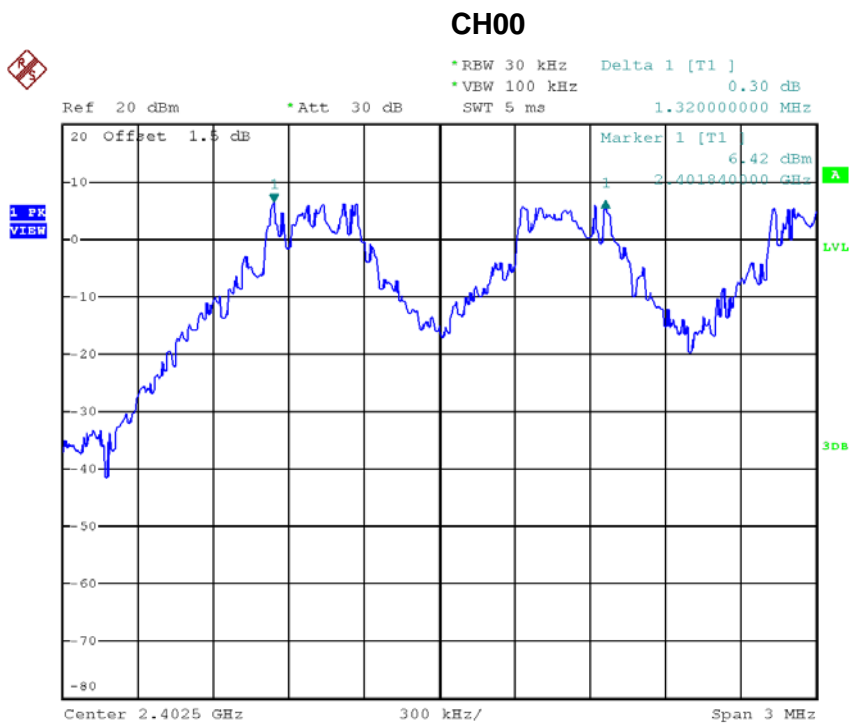


Date: 18.DEC.2017 10:51:11

APPENDIX G - HOPPING CHANNEL SEPARATION MEASUREMENT

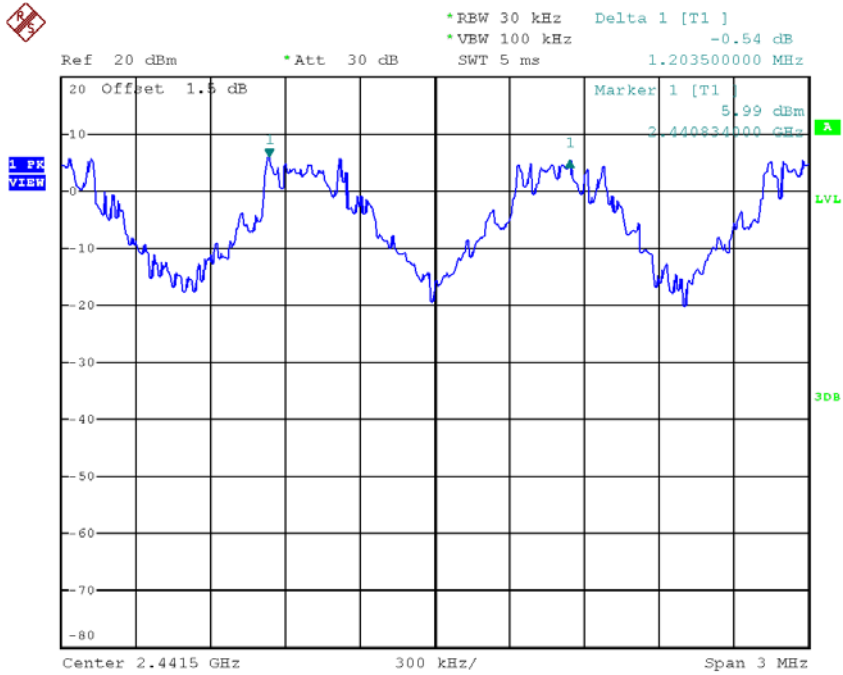
Test Mode : Hopping on _1Mbps

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.320	0.639	Pass
2441	1.204	0.639	Pass
2480	1.185	0.644	Pass



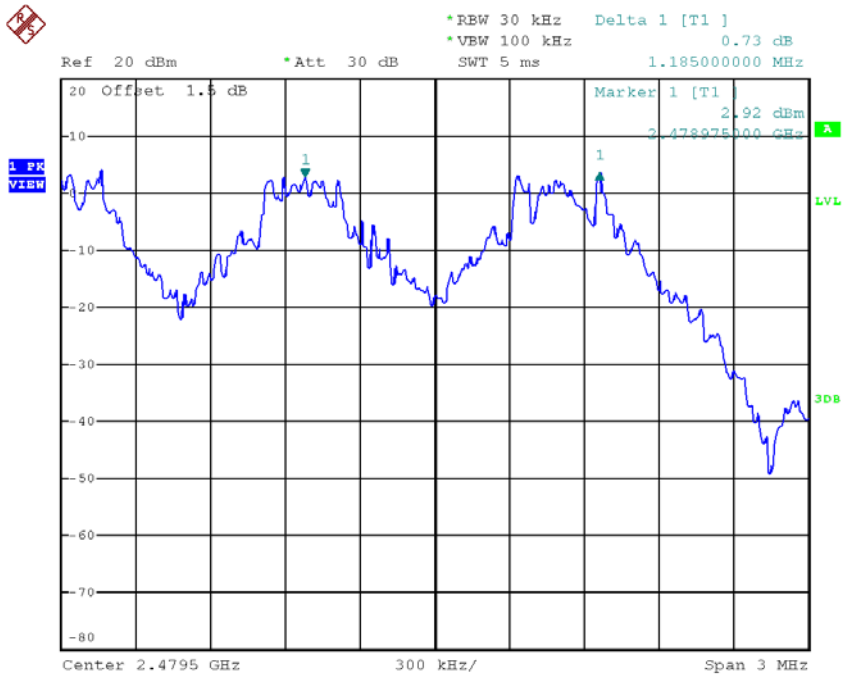
Date: 18.DEC.2017 10:12:25

CH39



Date: 18.DEC.2017 10:16:01

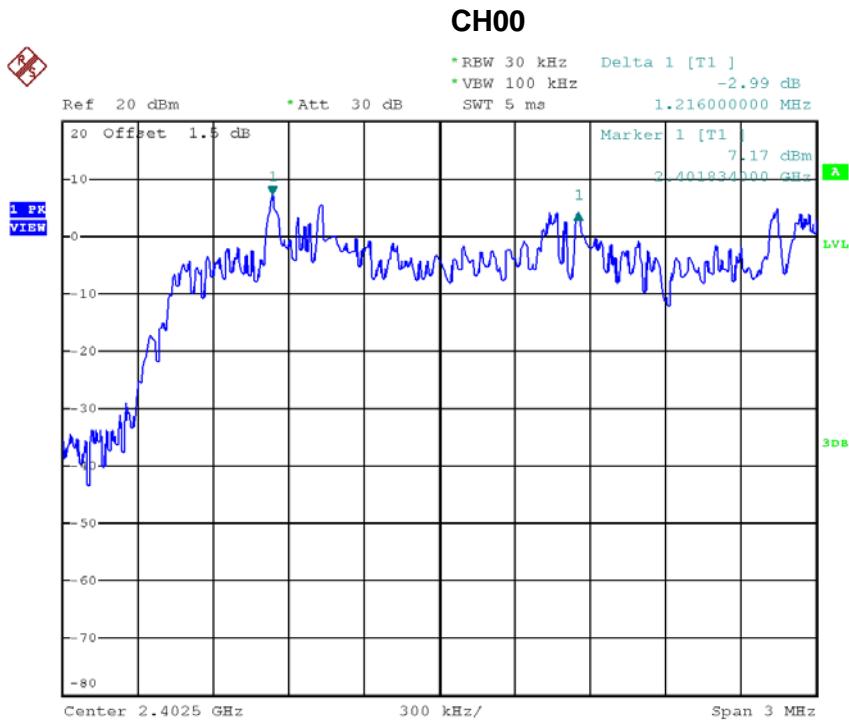
CH78



Date: 18.DEC.2017 10:17:07

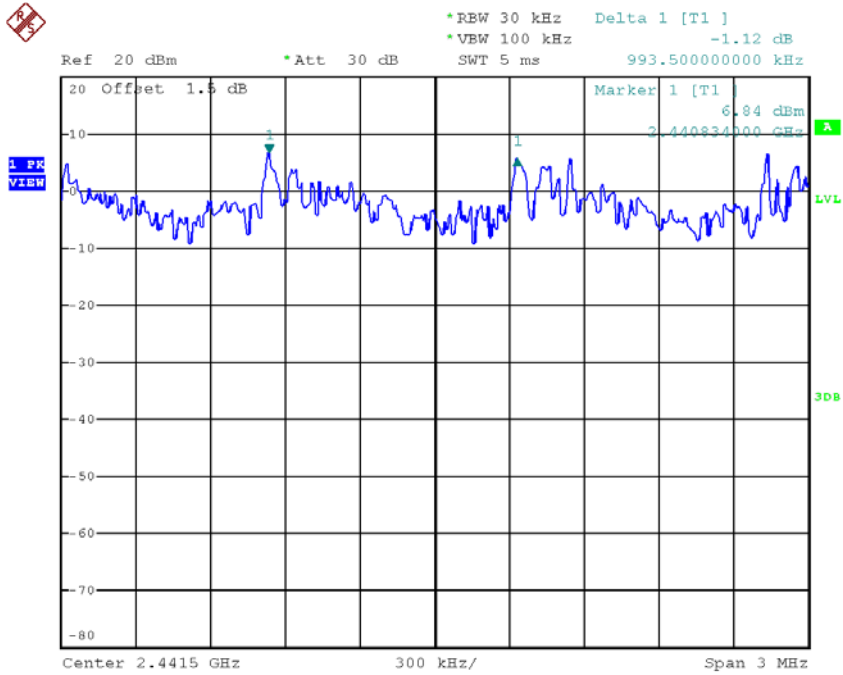
Test Mode : Hopping on _3Mbps

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.216	0.857	Pass
2441	0.994	0.871	Pass
2480	1.204	0.877	Pass



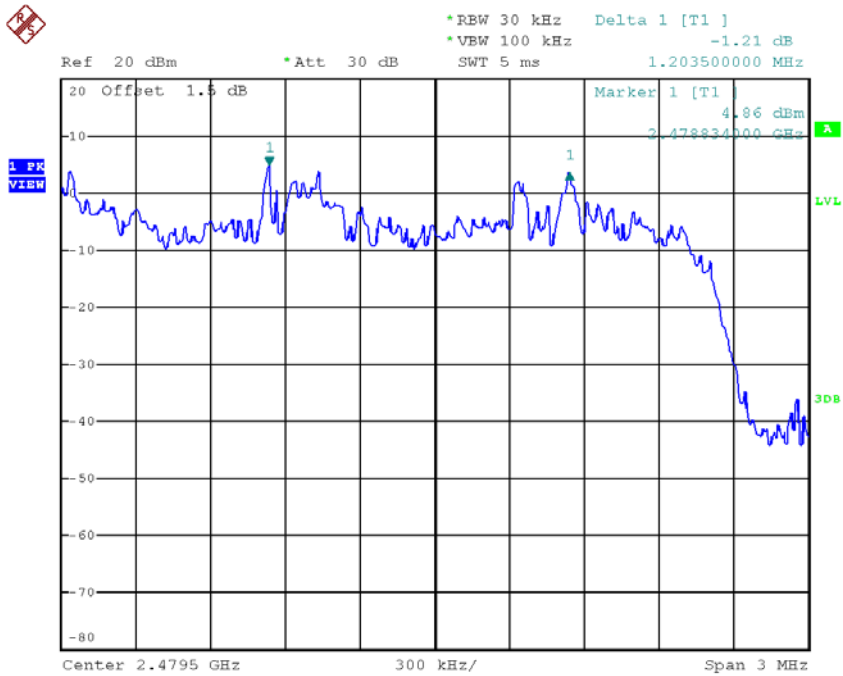
Date: 18.DEC.2017 10:37:56

CH39



Date: 18.DEC.2017 10:42:28

CH78

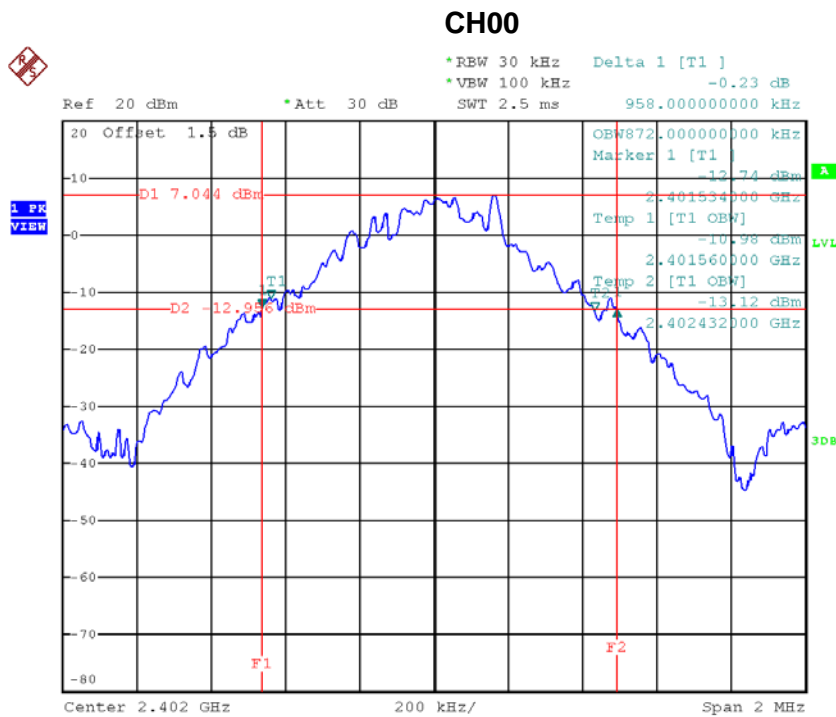


Date: 18.DEC.2017 10:45:31

APPENDIX H - BANDWIDTH

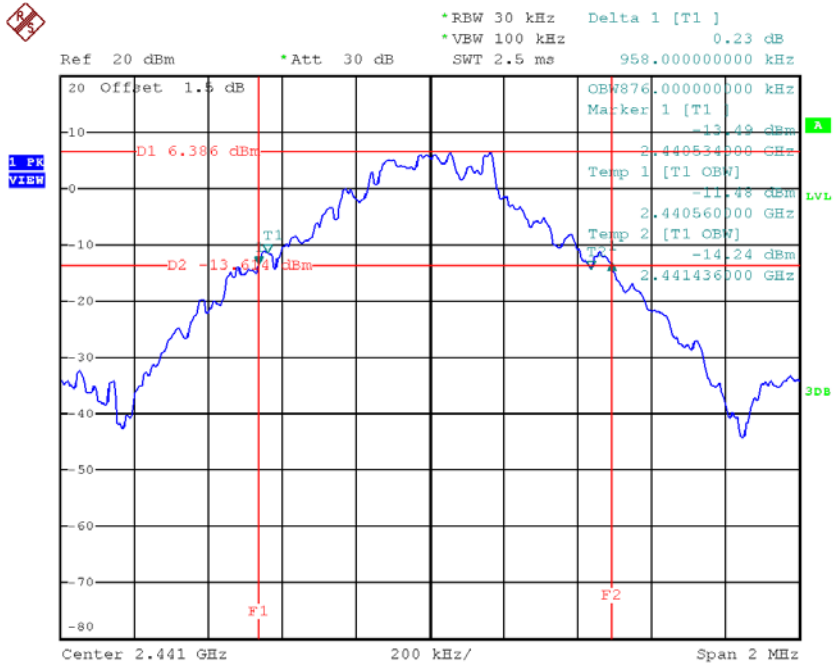
Test Mode : TX Mode _1Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.958	0.872	Pass
2441	0.958	0.876	Pass
2480	0.966	0.876	Pass



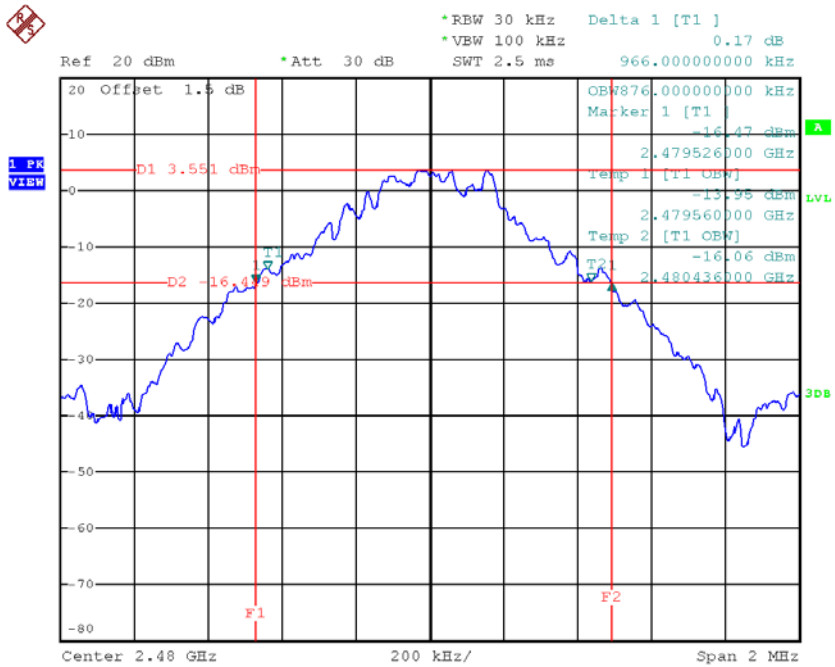
Date: 18.DEC.2017 09:58:06

CH39



Date: 18.DEC.2017 09:59:56

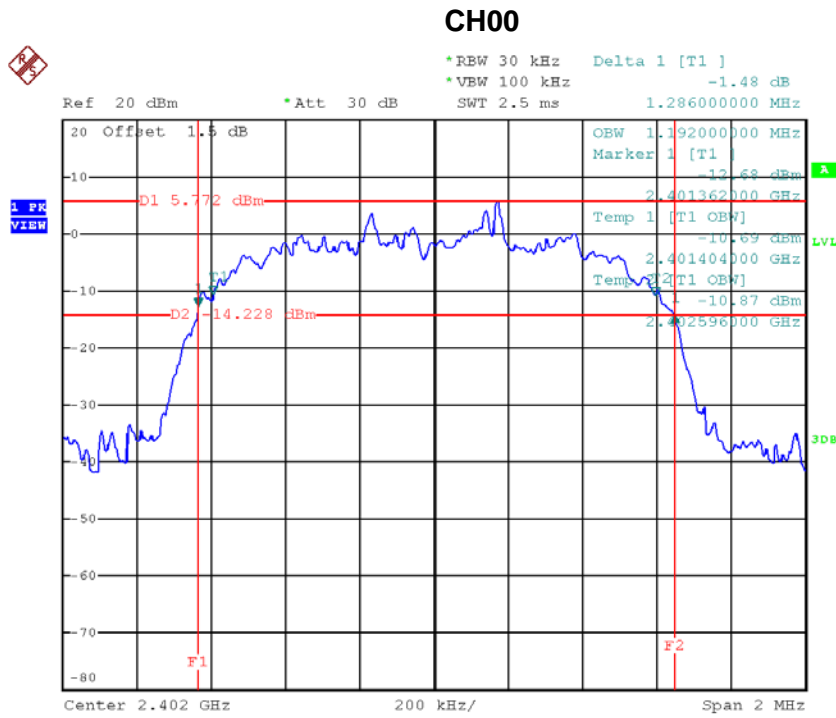
CH78



Date: 18.DEC.2017 10:02:05

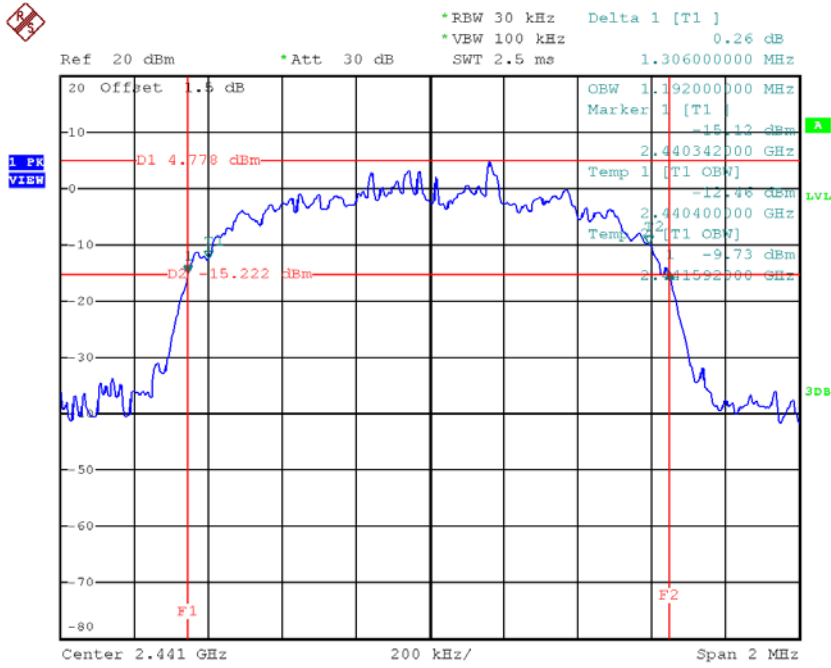
Test Mode : TX Mode _3Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.286	1.192	Pass
2441	1.306	1.192	Pass
2480	1.316	1.192	Pass



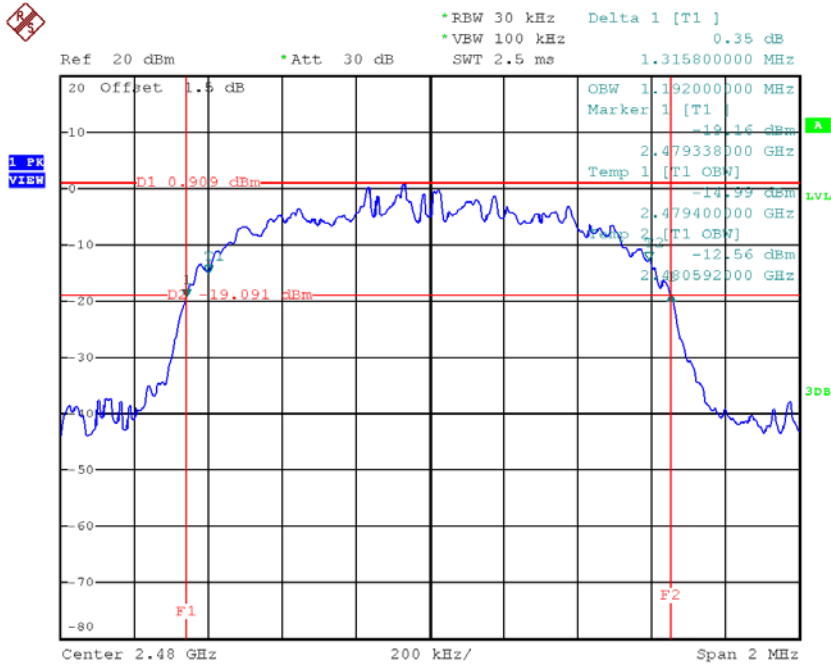
Date: 18.DEC.2017 10:24:18

CH39



Date: 18.DEC.2017 10:26:00

CH78

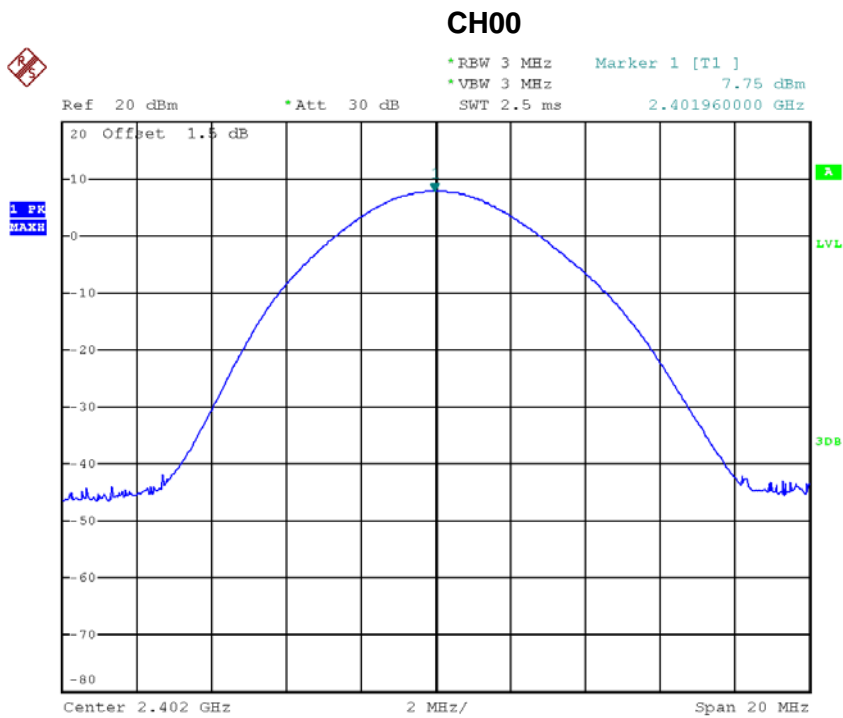


Date: 18.DEC.2017 10:26:41

APPENDIX I - PEAK OUTPUT POWER

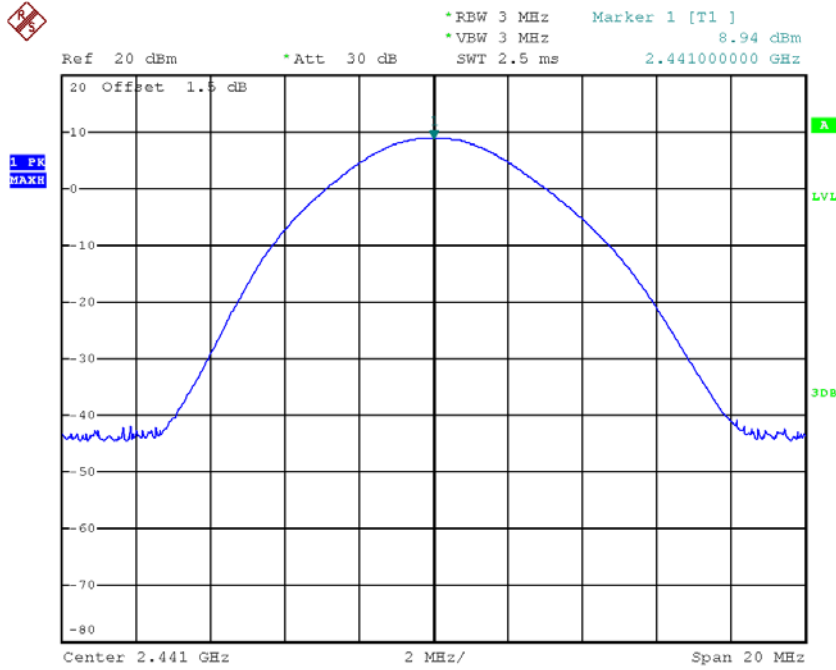
Test Mode : TX Mode _1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	7.75	0.0060	30.00	1.00	Pass
2441	8.94	0.0078	30.00	1.00	Pass
2480	7.54	0.0057	30.00	1.00	Pass



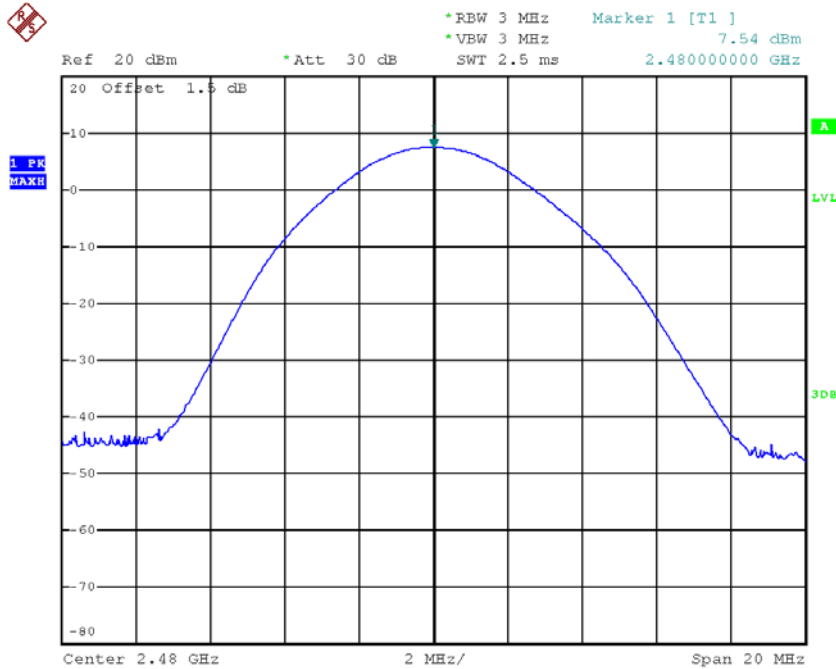
Date: 18.DEC.2017 15:14:32

CH39



Date: 18.DEC.2017 15:14:46

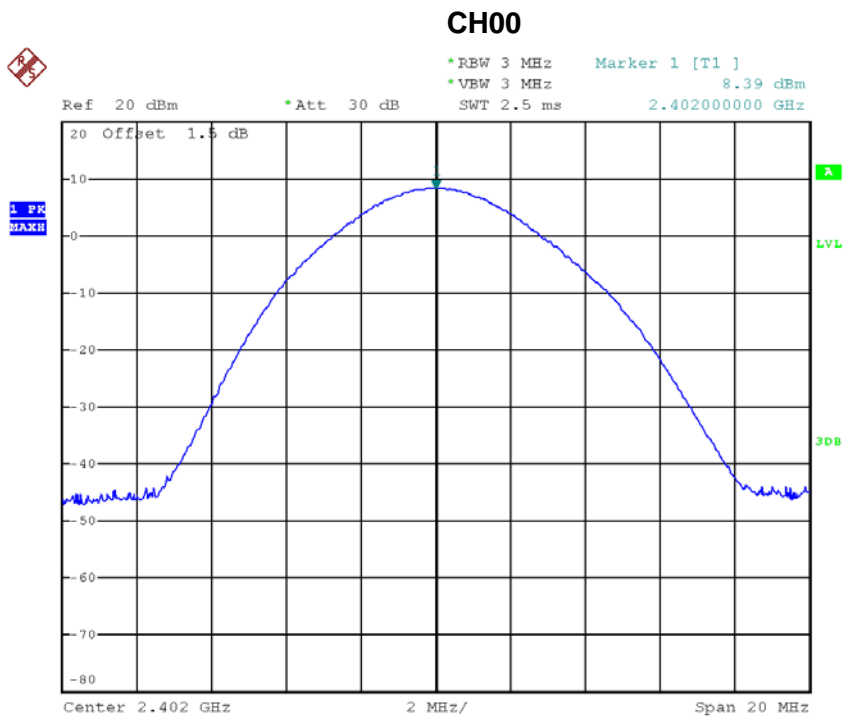
CH78



Date: 18.DEC.2017 15:15:05

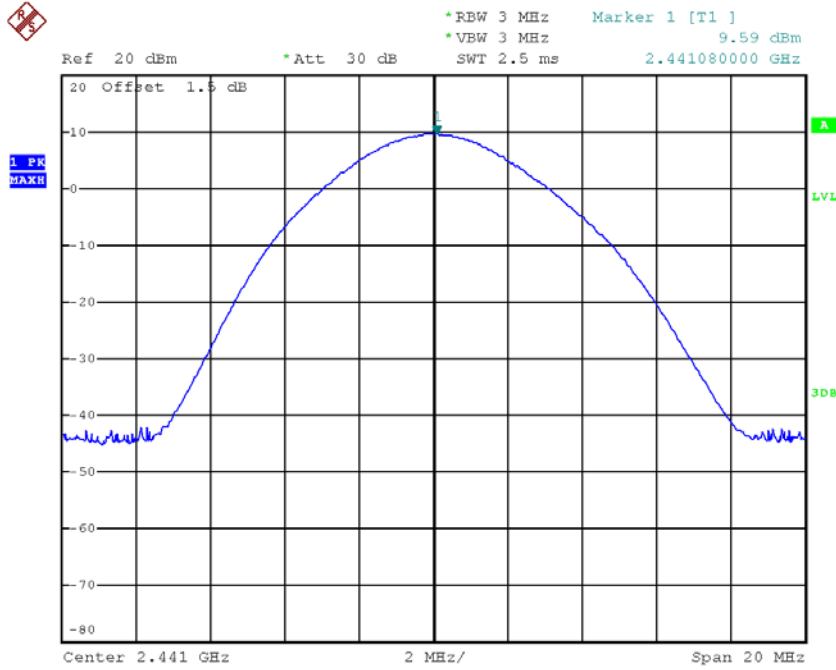
Test Mode : TX Mode _3Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	8.39	0.0069	21.00	0.125	Pass
2441	9.59	0.0091	21.00	0.125	Pass
2480	8.54	0.0071	21.00	0.125	Pass



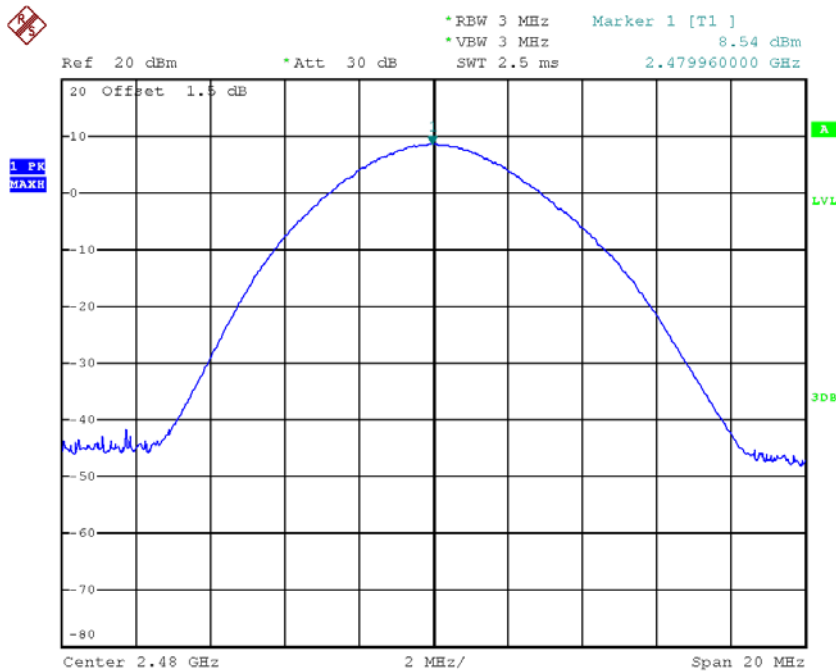
Date: 18.DEC.2017 15:15:33

CH39



Date: 18.DEC.2017 15:15:50

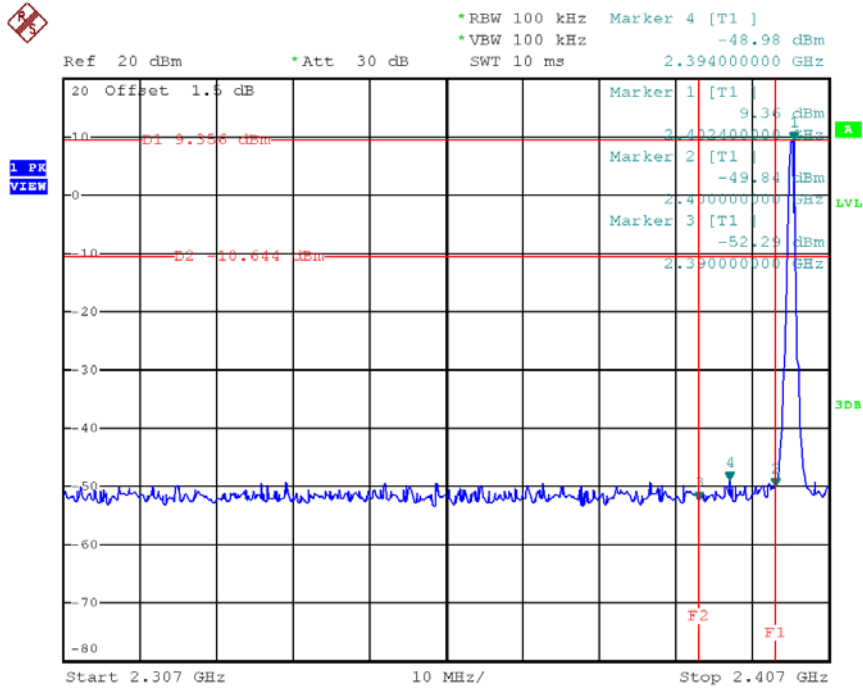
CH78



Date: 18.DEC.2017 15:16:18

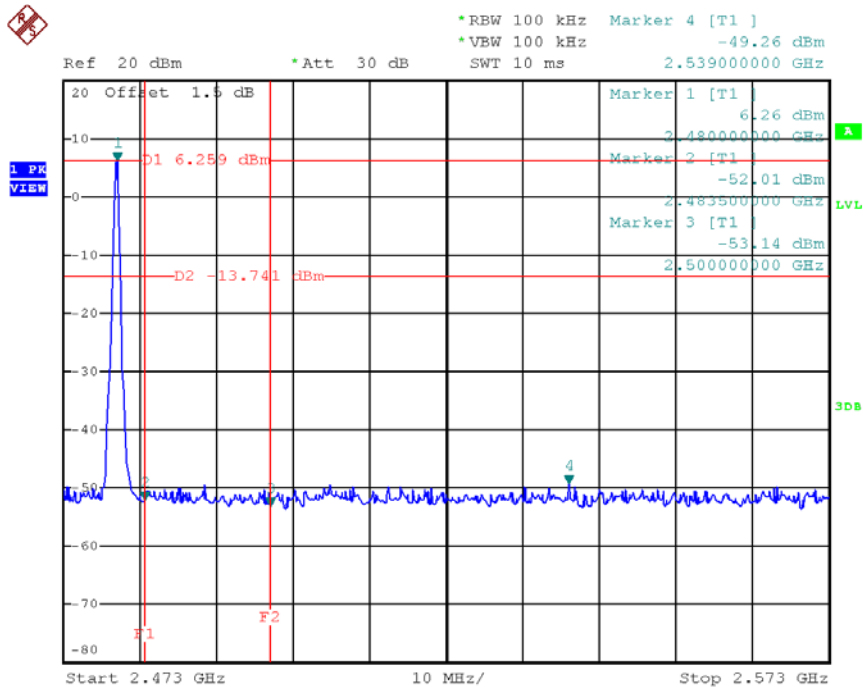
APPENDIX J - ANTENNA CONDUCTED SPURIOUS EMISSION

CH00 (Lower)_1Mbps



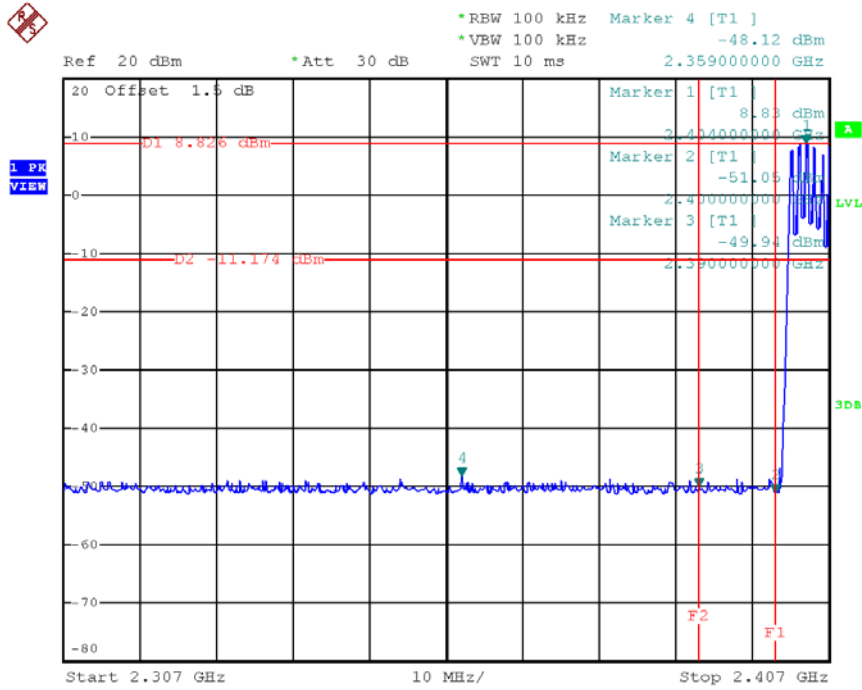
Date: 18.DEC.2017 09:57:42

CH78 (Upper)_1Mbps



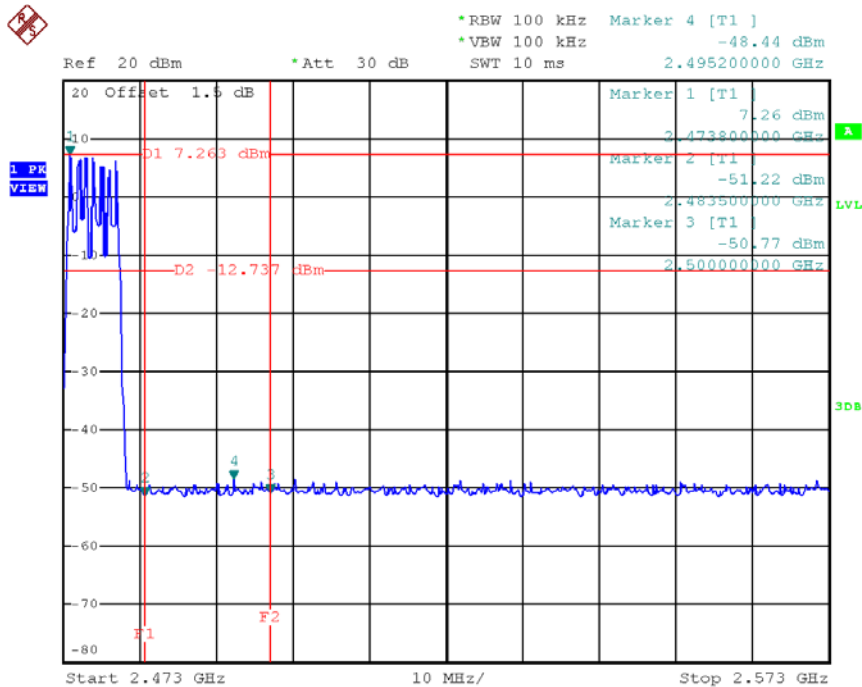
Date: 18.DEC.2017 10:01:42

CH00 Hopping on mode (Lower)_1Mbps



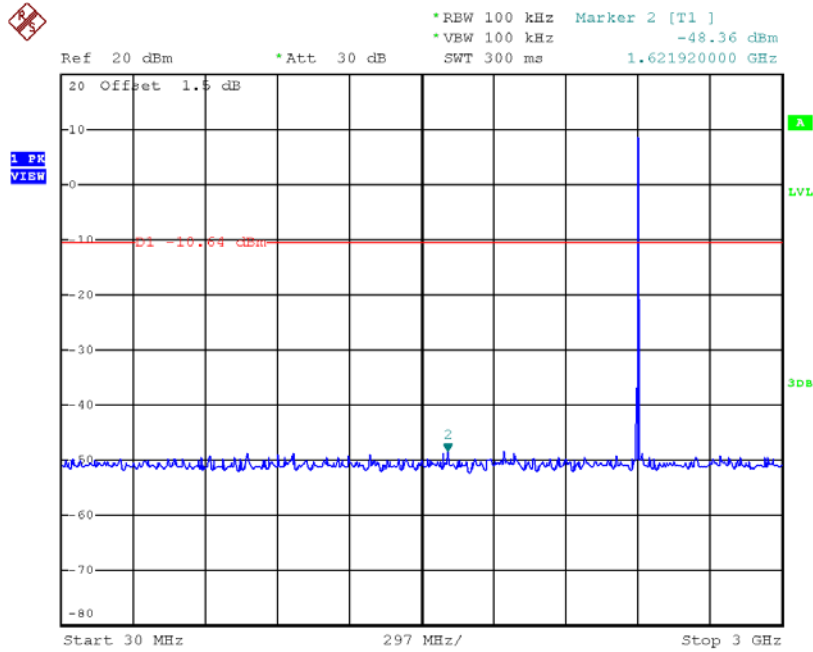
Date: 18.DEC.2017 10:19:29

CH78 Hopping on mode (Upper)_1Mbps

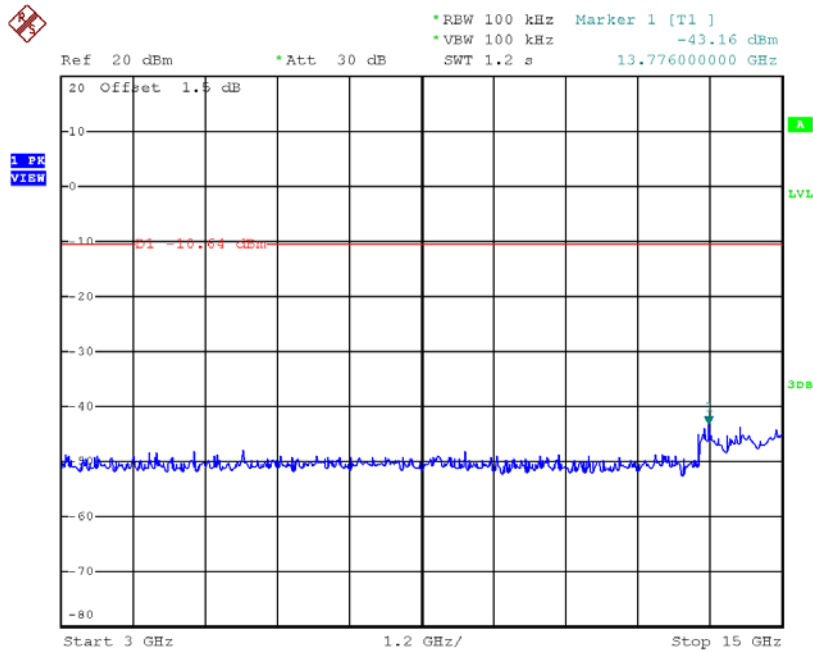


Date: 18.DEC.2017 10:20:04

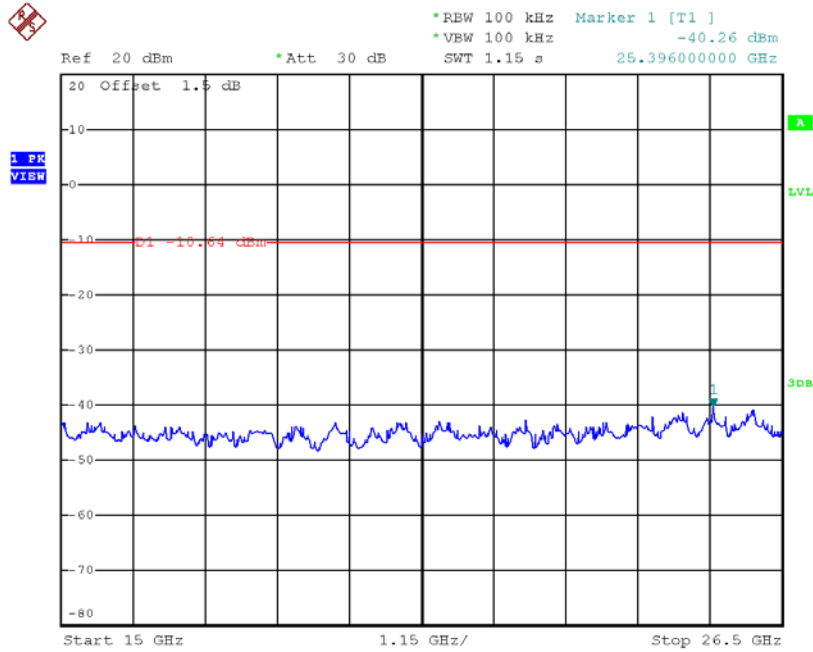
CH00 (10 Harmonic of the frequency) _1Mbps



Date: 18.DEC.2017 09:58:19

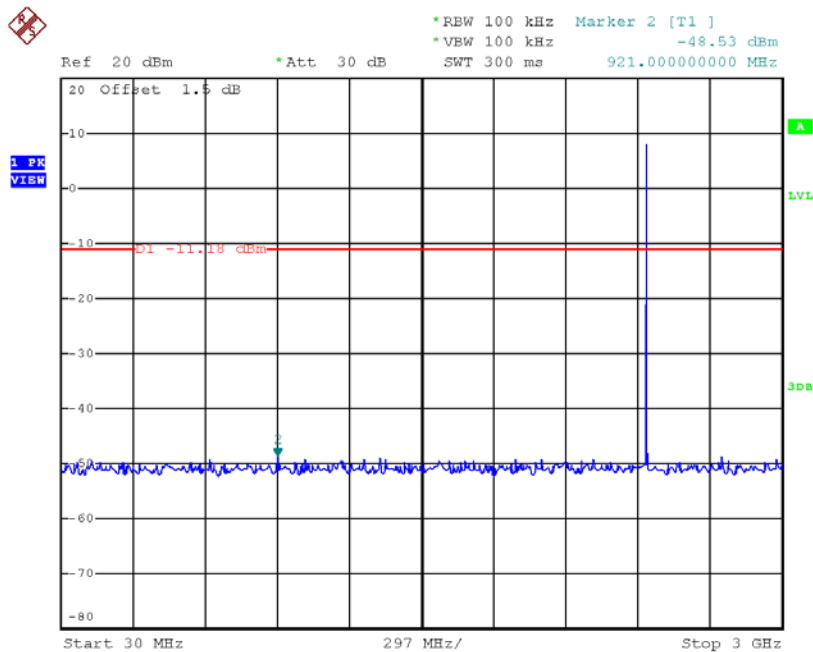


Date: 18.DEC.2017 09:58:27

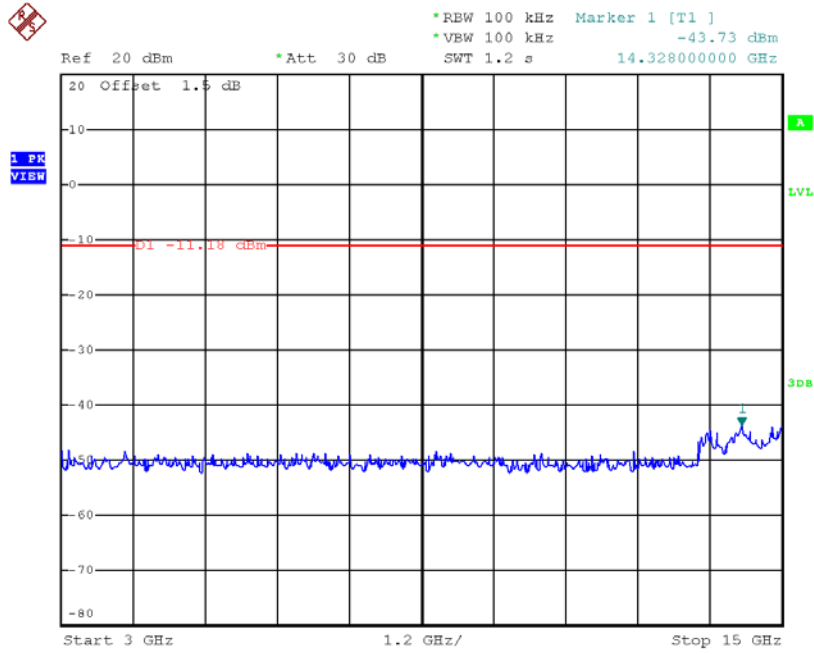


Date: 18.DEC.2017 09:58:35

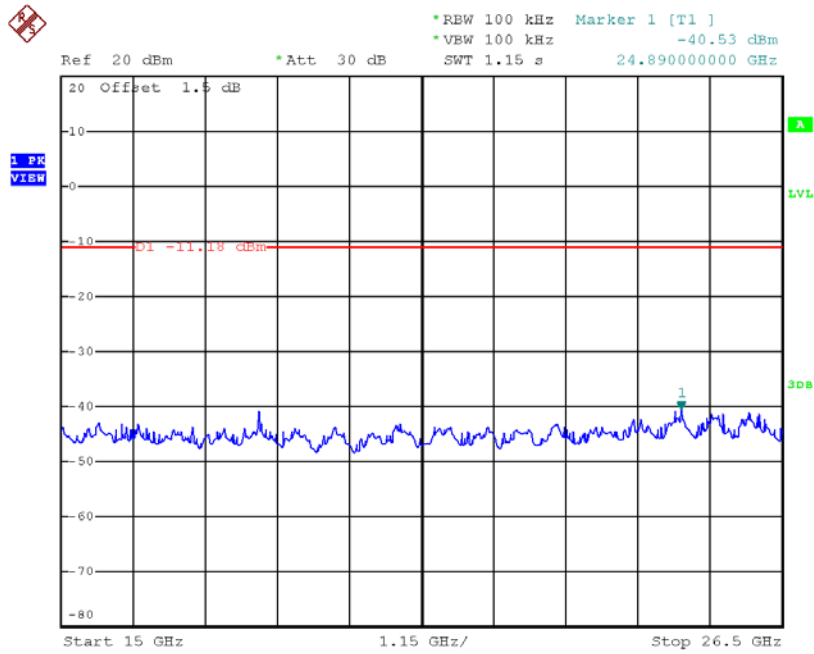
CH39 (10 Harmonic of the frequency) _1Mbps



Date: 18.DEC.2017 09:59:18

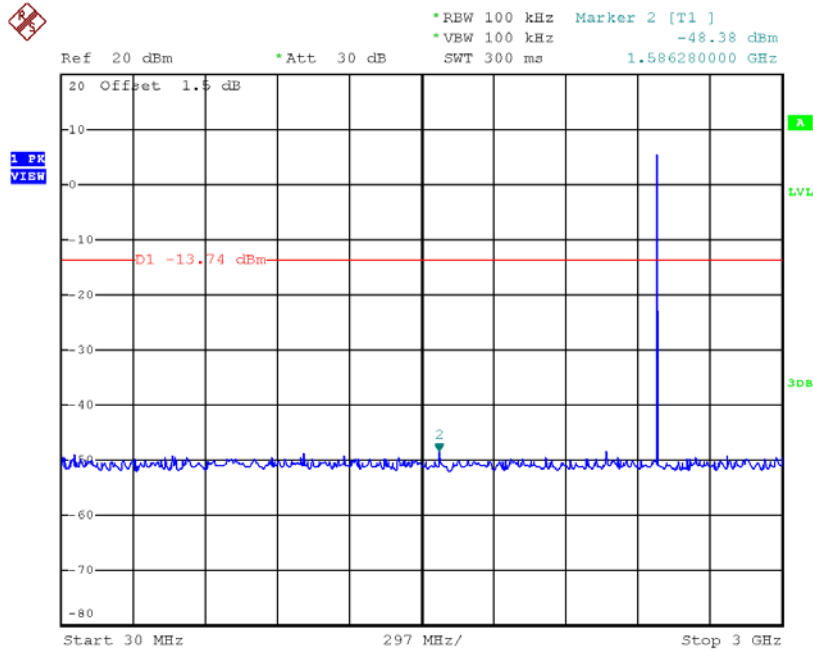


Date: 18.DEC.2017 09:59:26

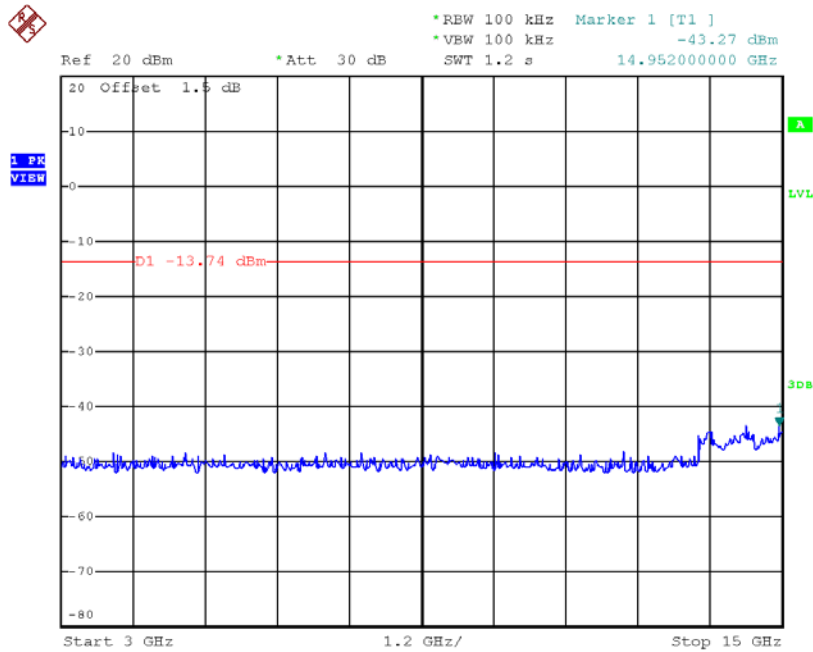


Date: 18.DEC.2017 09:59:34

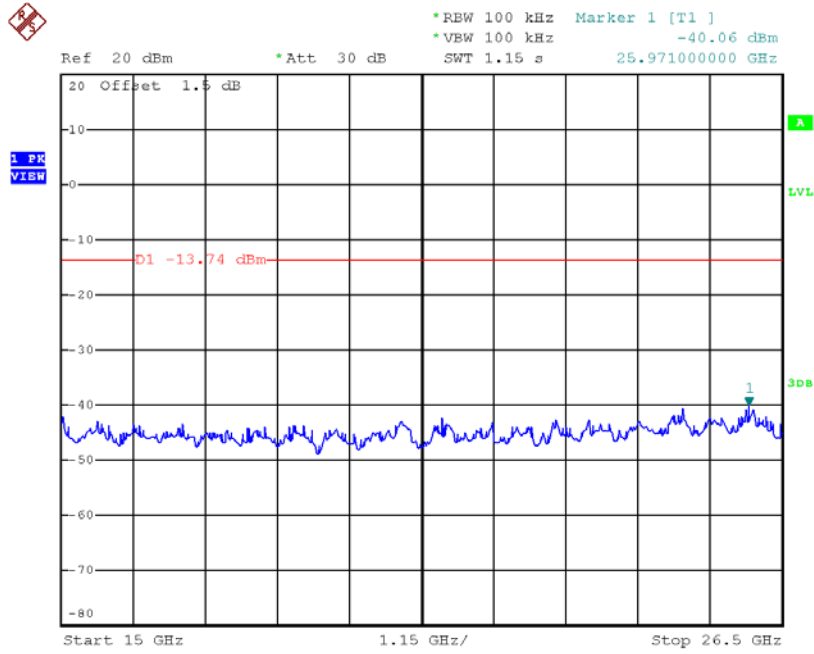
CH78 (10 Harmonic of the frequency) _1Mbps



Date: 18.DEC.2017 10:02:19

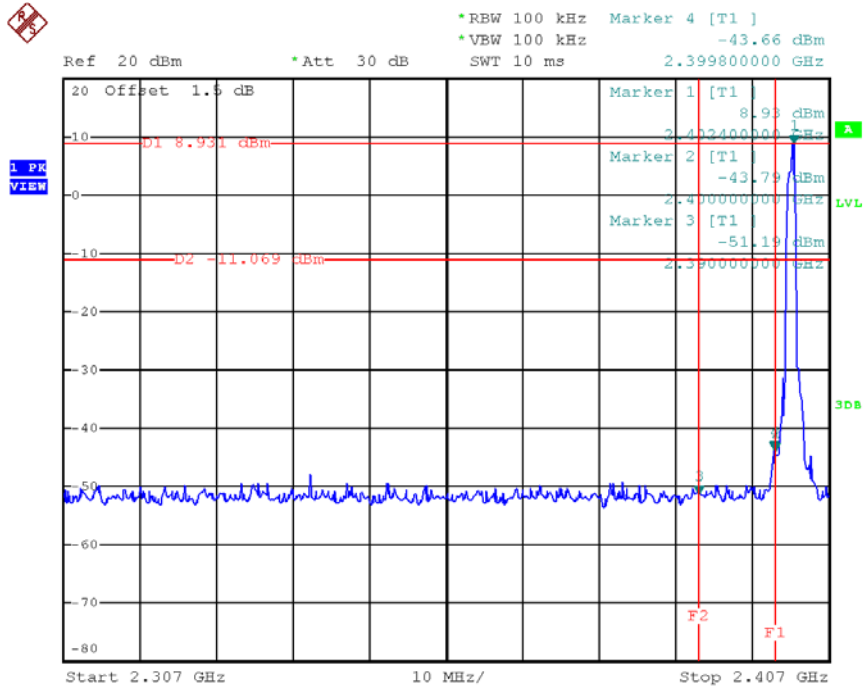


Date: 18.DEC.2017 10:02:27



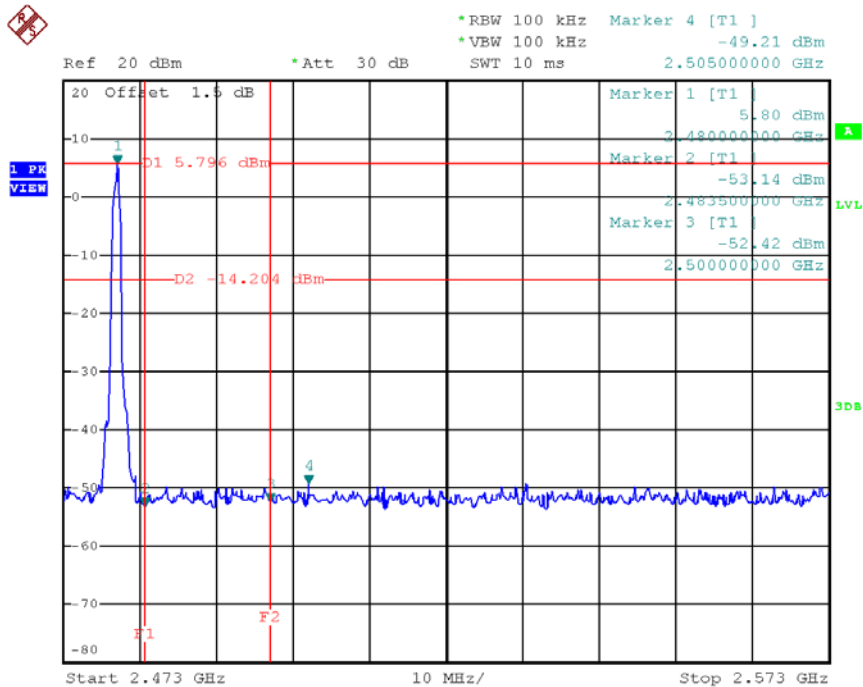
Date: 18.DEC.2017 10:02:34

CH00 (Lower) _3Mbps



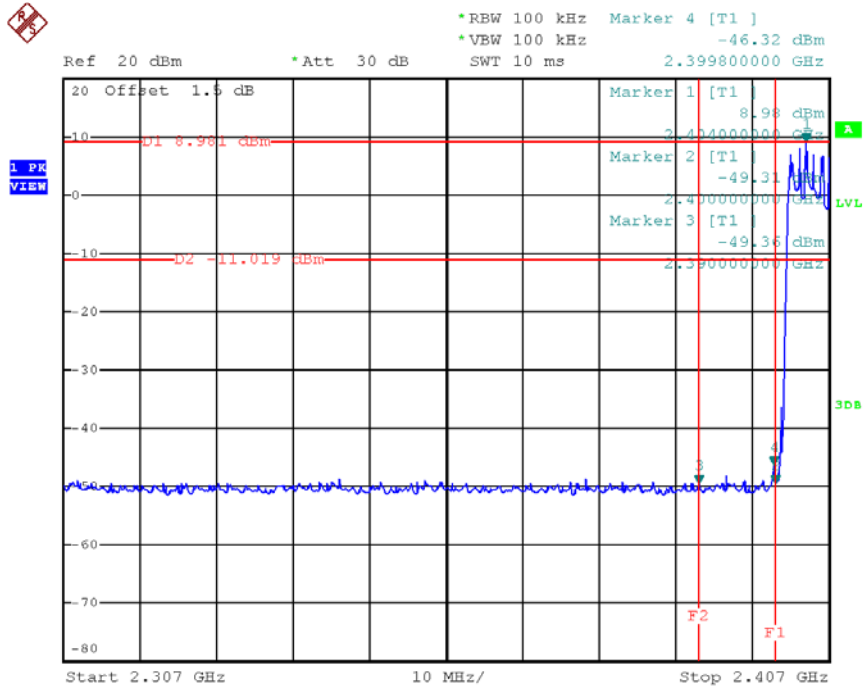
Date: 18.DEC.2017 10:24:00

CH78 (Upper) _3Mbps



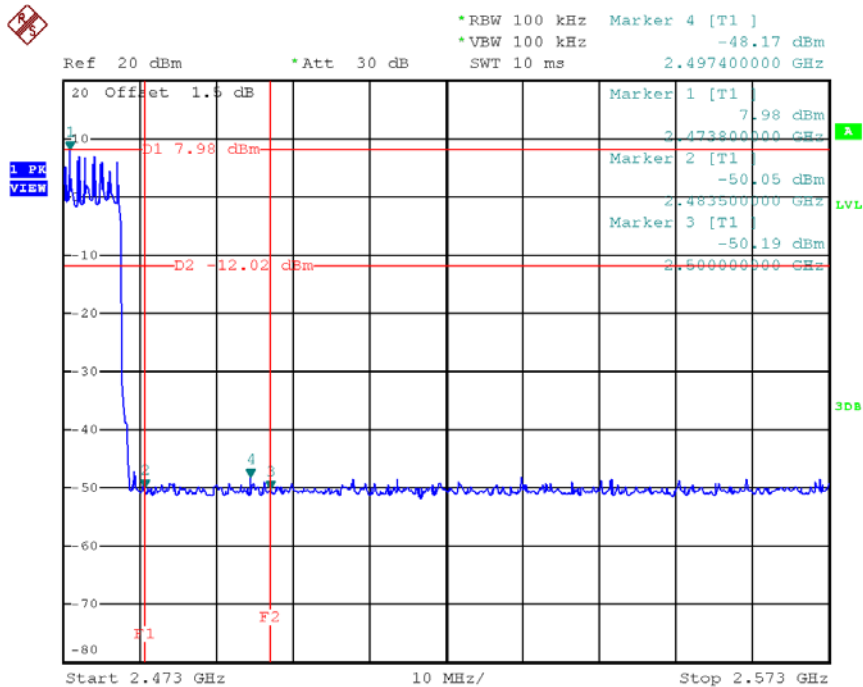
Date: 18.DEC.2017 10:26:23

CH00 Hopping on mode (Lower)_3Mbps



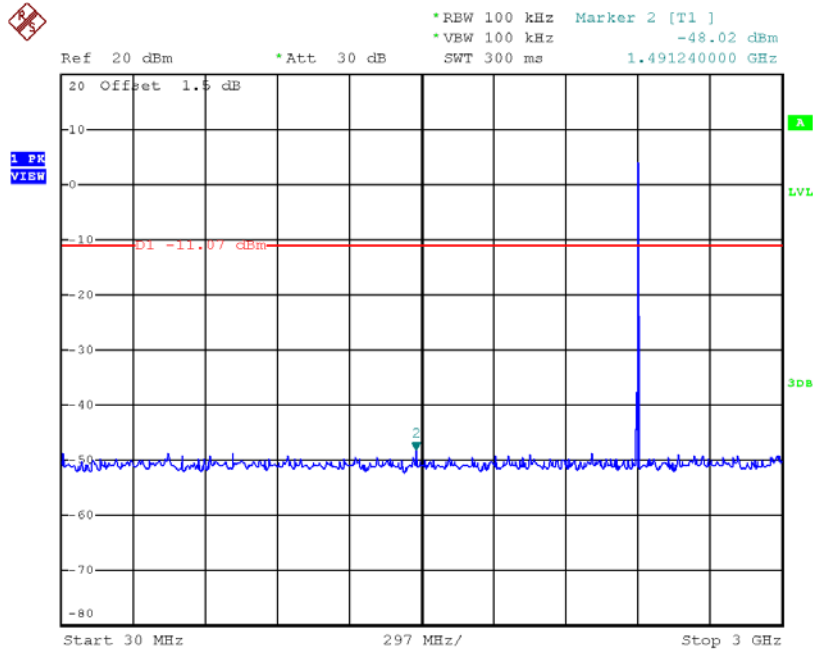
Date: 18.DEC.2017 10:47:52

CH78 Hopping on mode (Upper)_3Mbps

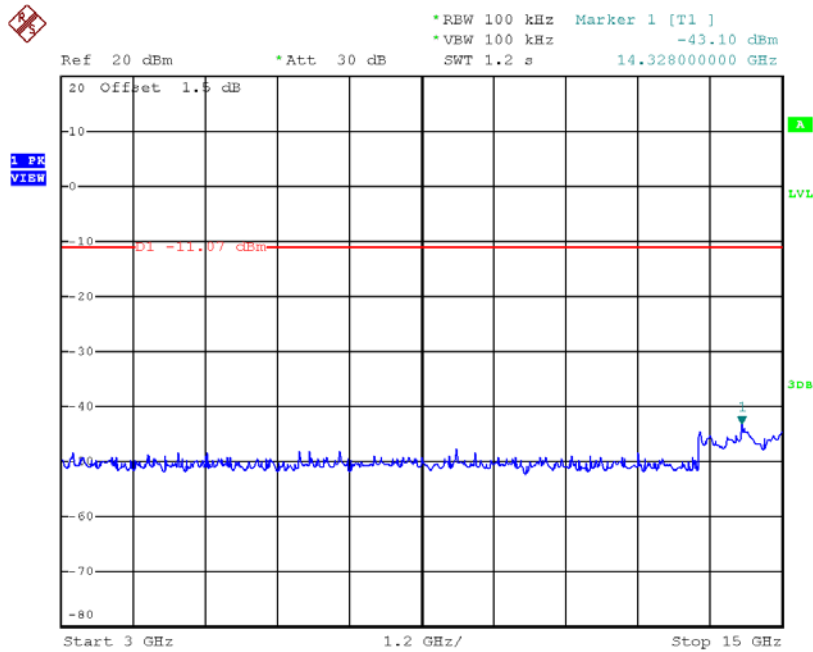


Date: 18.DEC.2017 10:48:27

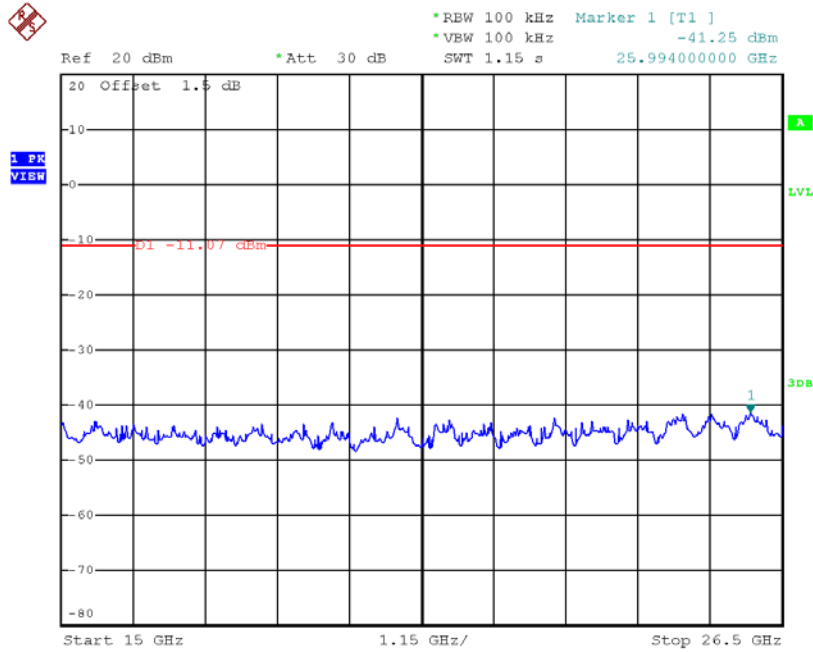
CH00 (10 Harmonic of the frequency) _3Mbps



Date: 18.DEC.2017 10:24:32

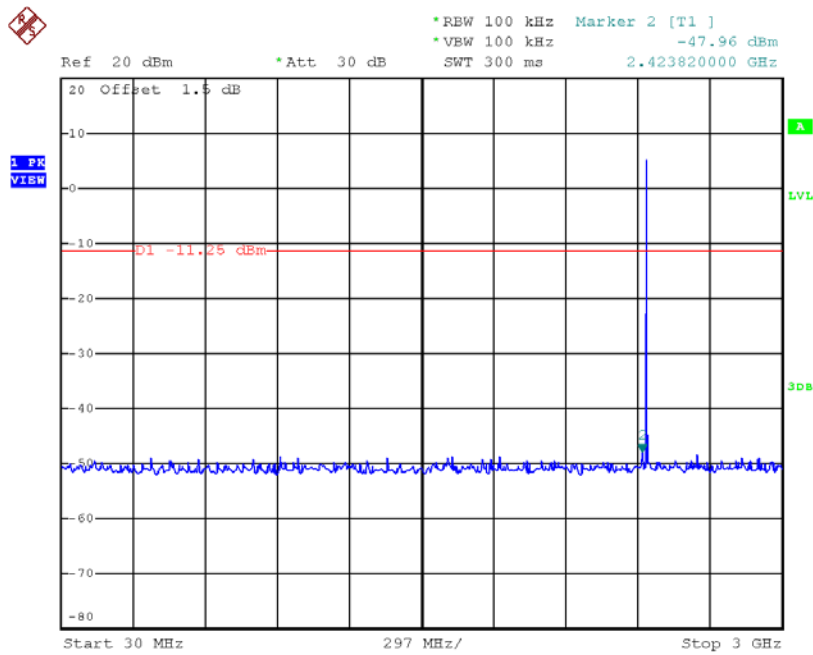


Date: 18.DEC.2017 10:24:40

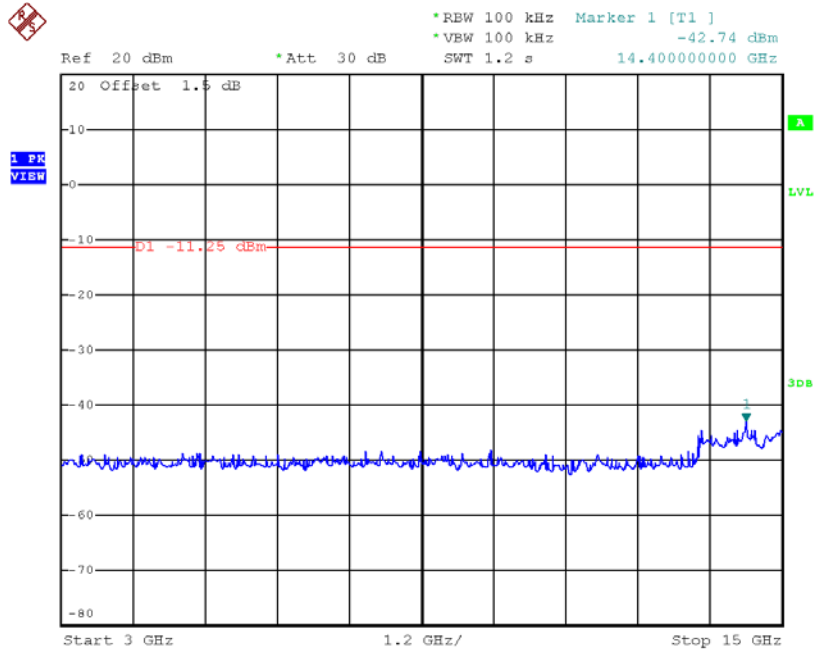


Date: 18.DEC.2017 10:24:47

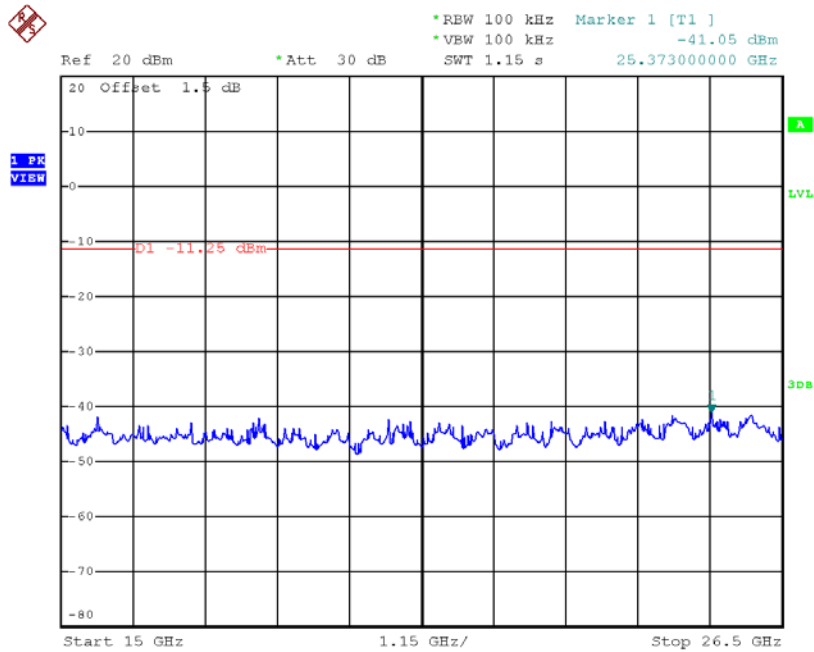
CH39 (10 Harmonic of the frequency) _3Mbps



Date: 18.DEC.2017 10:25:26

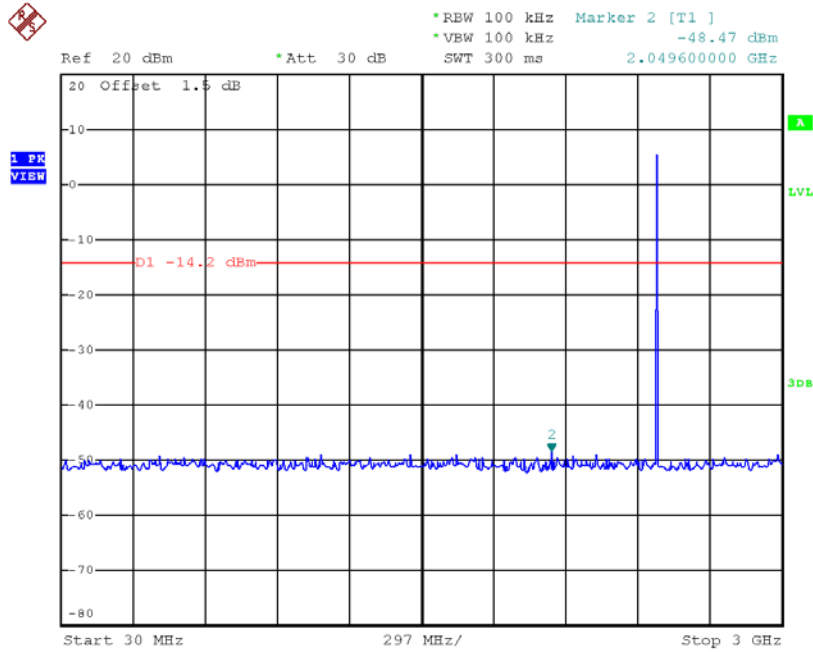


Date: 18.DEC.2017 10:25:33

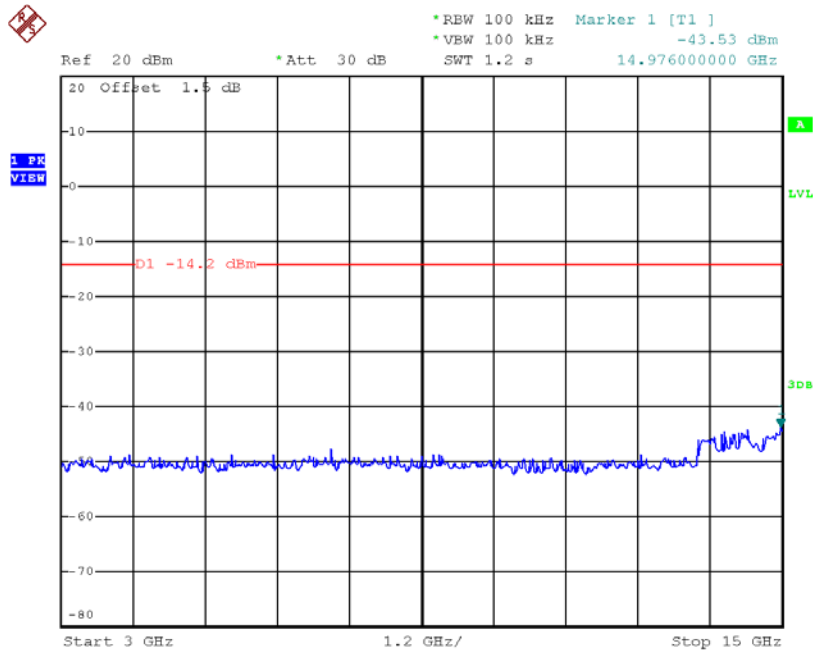


Date: 18.DEC.2017 10:25:41

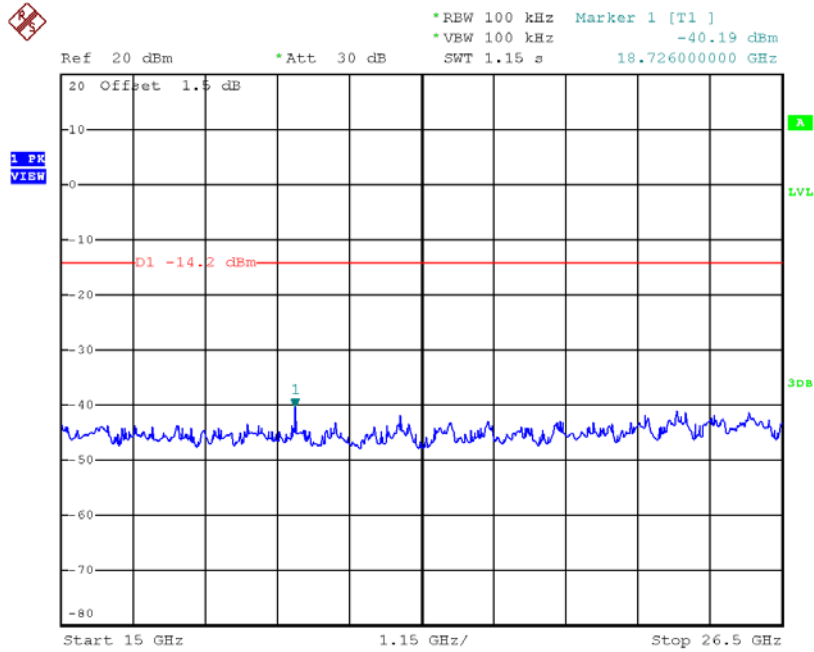
CH78 (10 Harmonic of the frequency) _3Mbps



Date: 18.DEC.2017 10:26:54



Date: 18.DEC.2017 10:27:02



Date: 18.DEC.2017 10:27:09