

FCC Radio Test Report

FCC ID: RWO-RZ0902386

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

Project No. : 1803C063
Equipment : Notebook
Test Model : RZ09-02386
Series Model : RZ09-02385
Applicant : Razer Inc.
Address : 201 3rd Street, Suite 900, San Francisco, CA
94103, USA

Date of Receipt : Mar. 08, 2018
Date of Test : Mar. 09, 2018 ~ Apr. 02, 2018
Issued Date : May 21, 2018
Tested by : BTL Inc.

Testing Engineer : Welly Zhou
(Welly Zhou)

Technical Manager : Shawn Xiao
(Shawn Xiao)

Authorized Signatory : Steven Lu
(Steven Lu)

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1803C063	Original Issue.	May 11, 2018
MDG1805037	Updated Peak Output Power of limit.	May 21, 2018

1. CERTIFICATION

Equipment : Notebook
Brand Name : RAZER
Test Model : RZ09-02386
Series Model : RZ09-02385
Applicant : Razer Inc.
Manufacturer : Razer Inc.
Address : 201 3rd Street, Suite 900, San Francisco,CA 94103,USA
Factory : BYD Precision Manufacture Co.,Ltd.
Address : No.3001, Baohe Road, Baolong industrial, Longgang Street , Longgang Zone, Shenzhen
Date of Test : Mar. 09, 2018 ~ Apr. 02, 2018
Test Sample : Engineering Sample NO. D180301983 for conducted, D180302153 for radiated.
Standard(s) : FCC Part15, Subpart C (15.247)

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-1-1803C063) 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 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	N/A	
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

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$.

The BTL measurement uncertainty as below table:

A. 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	Notebook	
Brand Name	RAZER	
Test Model	RZ09-02386	
Series Model	RZ09-02385	
Model Difference	Please refer to note 2.	
Hardware Version	C1_MB	
Firmware Version	Windows 10	
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.	4.40 dBm(1Mbps) 3.73 dBm(3Mbps)
Power Source	DC voltage supplied from AC/DC adapter.	
Power Rating	Please refer to note 2.	

Note:

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

Model	RZ09-02386	RZ09-02385
Graphics Card	N17E-G2 MAX-Q	N17E-G1 MAX-Q
Adapter	RC30-024801	#1 RC30-024801 #2 RC30-0238
Power Rating	I/P:AC100-240V, 3.6V 50/60Hz O/P:DC 19.5V, 11.8A	#1 I/P: AC100-240V, 3.6V 50/60Hz O/P: DC 19.5V, 11.8A #2 I/P: AC 100-240V, 2.5A 50/60Hz O/P: DC 19.5V/10.26A

2. Channel List:

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

3 Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
2	Molex	N/A	Internal	N/A	3.06

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:

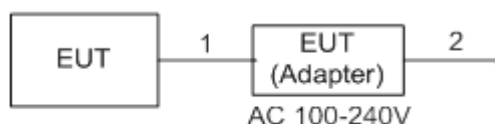
- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

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	DRTU		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	4	4	4
Parameters(3Mbps)	1	1	1

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	2m	DC Cable
2	NO	NO	1m	AC 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

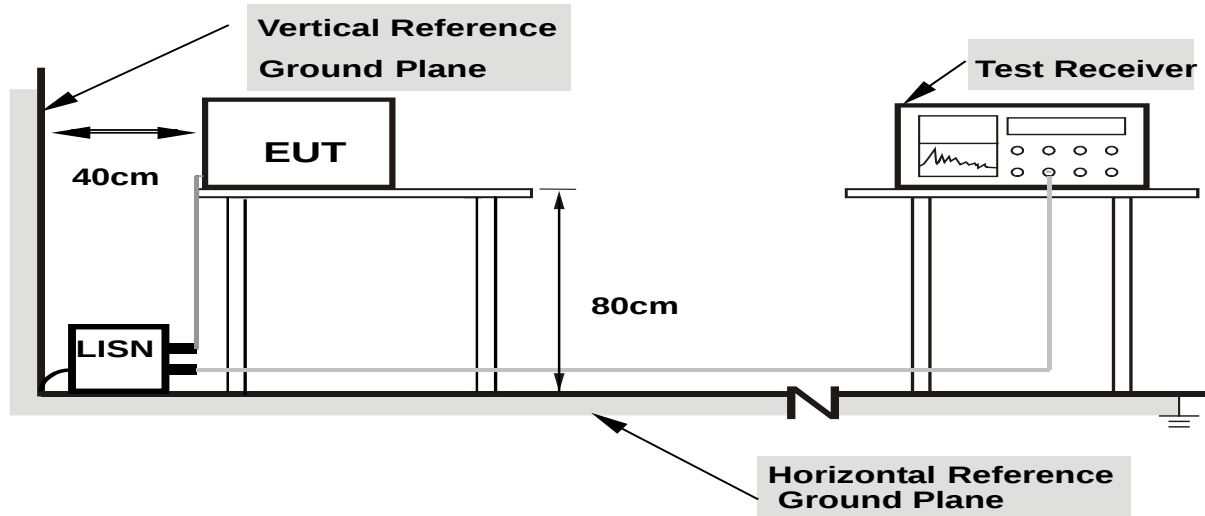
4.1.2 TEST PROCEDURE

- 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: N/A

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

Notes:

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

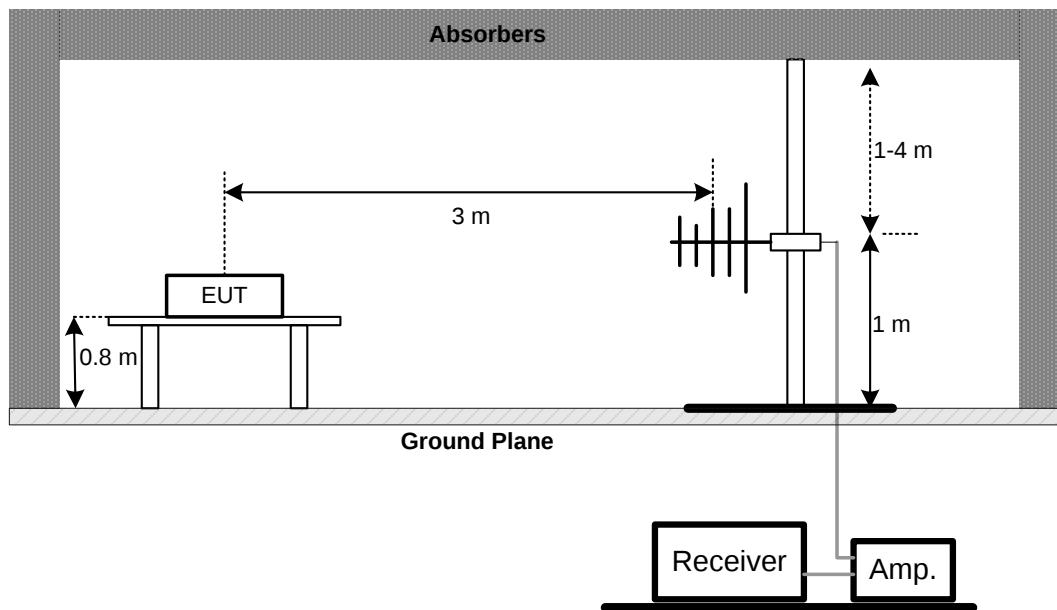
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

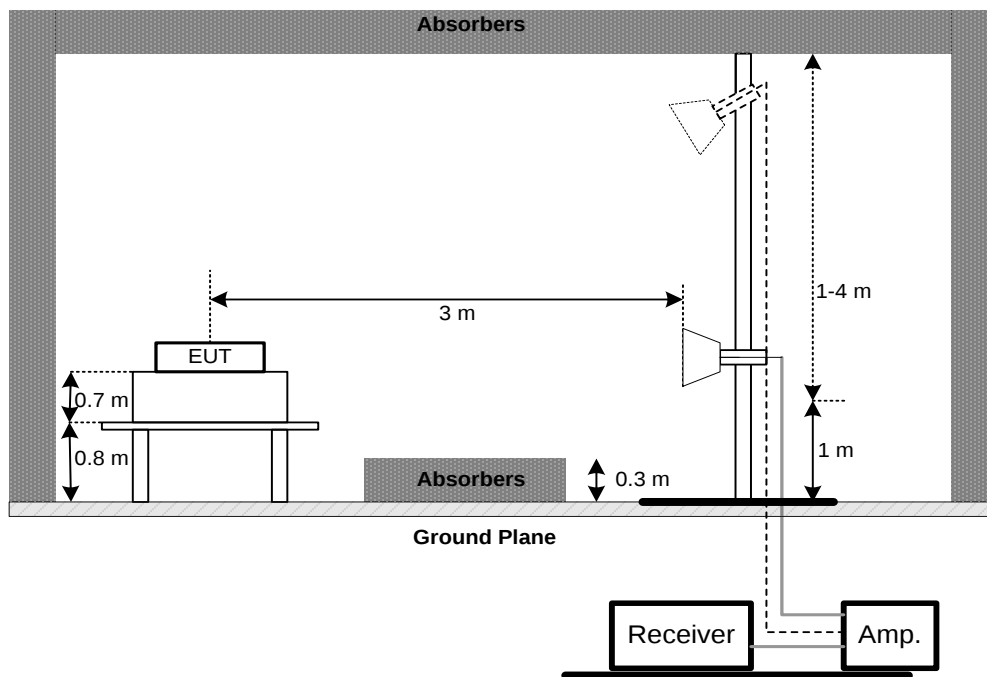
No deviation

4.2.4 TEST SETUP

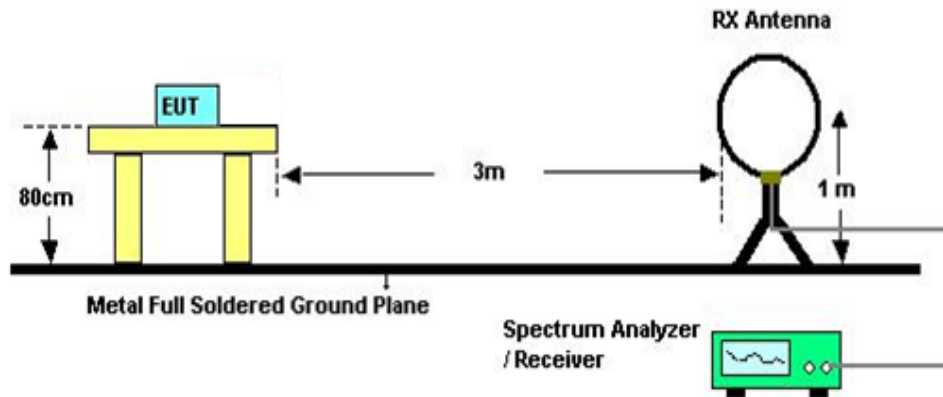
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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

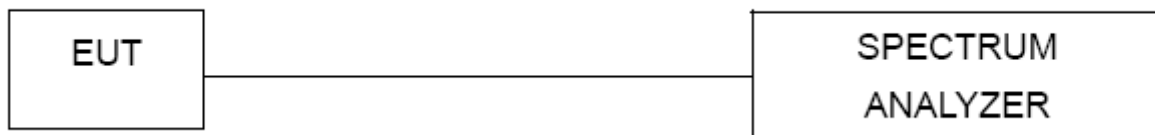
6.1.1 TEST PROCEDURE

- 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

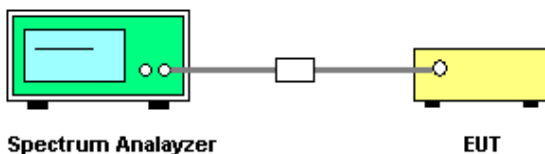
7.1.1 TEST PROCEDURE

- 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

- 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.

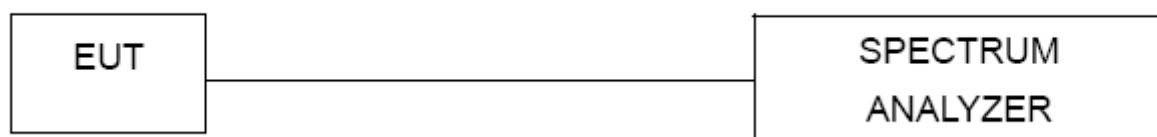
10.1.1 TEST PROCEDURE

- 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. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
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 Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
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	Feb. 07, 2019

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. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
9	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

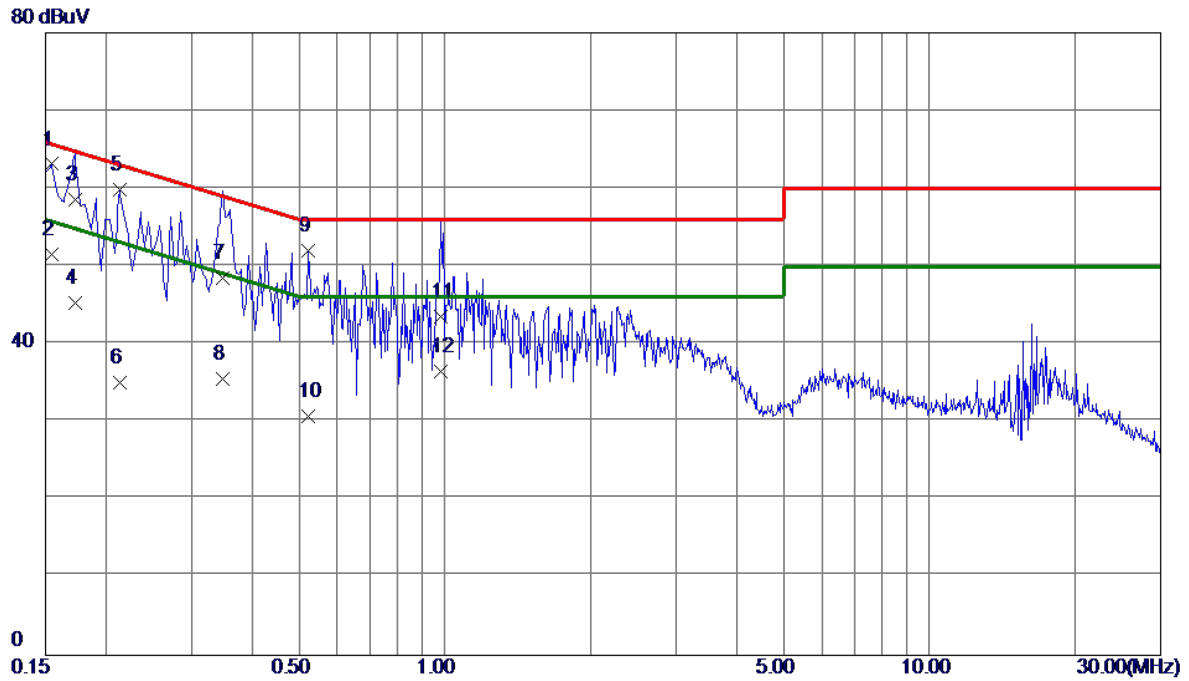
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link_Adapter: RC30-024801

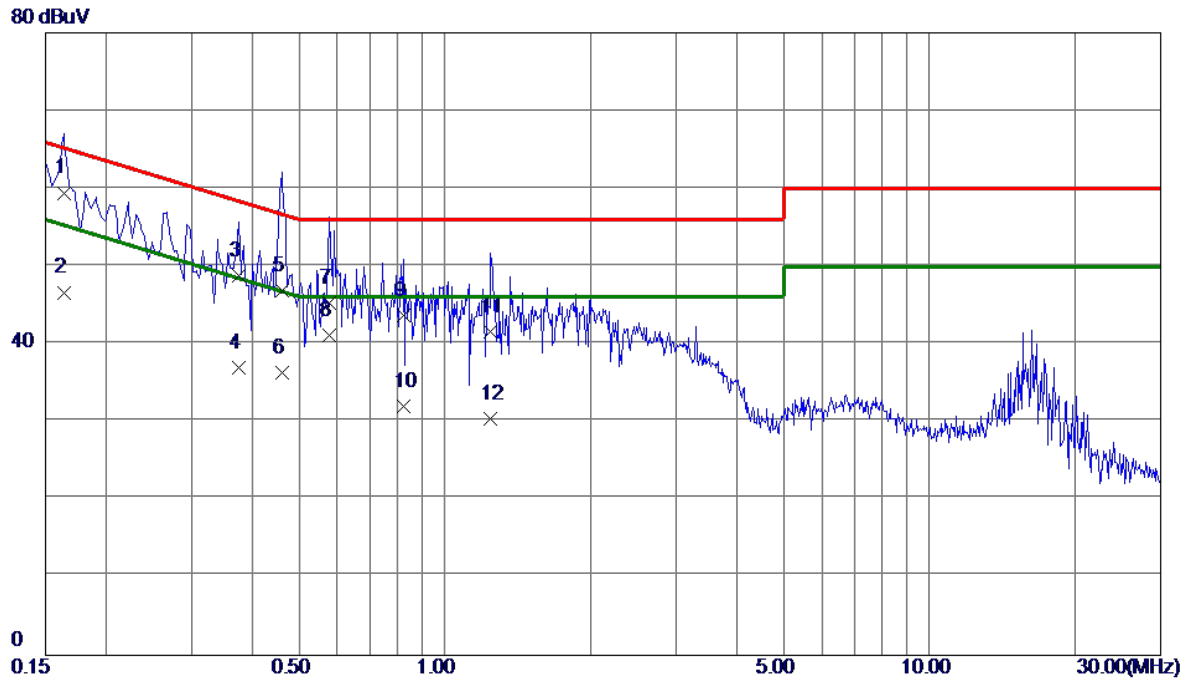
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1545	53.37	9.75	63.12	65.75	-2.63	QP	
2	0.1545	41.70	9.75	51.45	55.75	-4.30	AVG	
3	0.1725	48.80	9.74	58.54	64.84	-6.30	QP	
4	0.1725	35.60	9.74	45.34	54.84	-9.50	AVG	
5	0.2130	50.07	9.72	59.79	63.09	-3.30	QP	
6	0.2130	25.30	9.72	35.02	53.09	-18.07	AVG	
7	0.3480	38.80	9.75	48.55	59.01	-10.46	QP	
8	0.3480	25.80	9.75	35.55	49.01	-13.46	AVG	
9	0.5235	42.20	9.76	51.96	56.00	-4.04	QP	
10	0.5235	20.90	9.76	30.66	46.00	-15.34	AVG	
11	0.9825	33.80	9.77	43.57	56.00	-12.43	QP	
12	0.9825	26.70	9.77	36.47	46.00	-9.53	AVG	

Test Mode : Normal Link_Adapter: RC30-024801

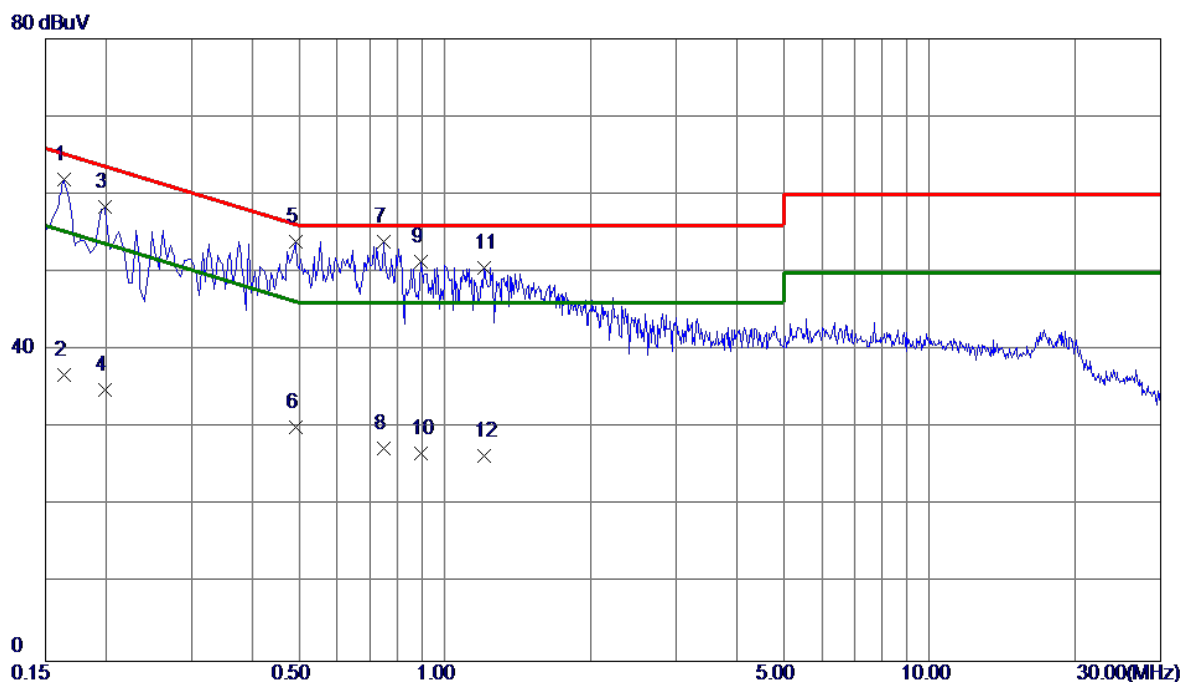
Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	49.80	9.64	59.44	65.28	-5.84	QP	
2	0.1635	37.00	9.64	46.64	55.28	-8.64	AVG	
3	0.3750	39.10	9.65	48.75	58.39	-9.64	QP	
4	0.3750	27.30	9.65	36.95	48.39	-11.44	AVG	
5	0.4605	37.30	9.65	46.95	56.68	-9.73	QP	
6	0.4605	26.70	9.65	36.35	46.68	-10.33	AVG	
7	0.5775	35.60	9.66	45.26	56.00	-10.74	QP	
8 *	0.5775	31.40	9.66	41.06	46.00	-4.94	AVG	
9	0.8205	34.10	9.66	43.76	56.00	-12.24	QP	
10	0.8205	22.40	9.66	32.06	46.00	-13.94	AVG	
11	1.2435	31.90	9.68	41.58	56.00	-14.42	QP	
12	1.2435	20.70	9.68	30.38	46.00	-15.62	AVG	

Test Mode : Normal Link_Adapter: RC30-0238

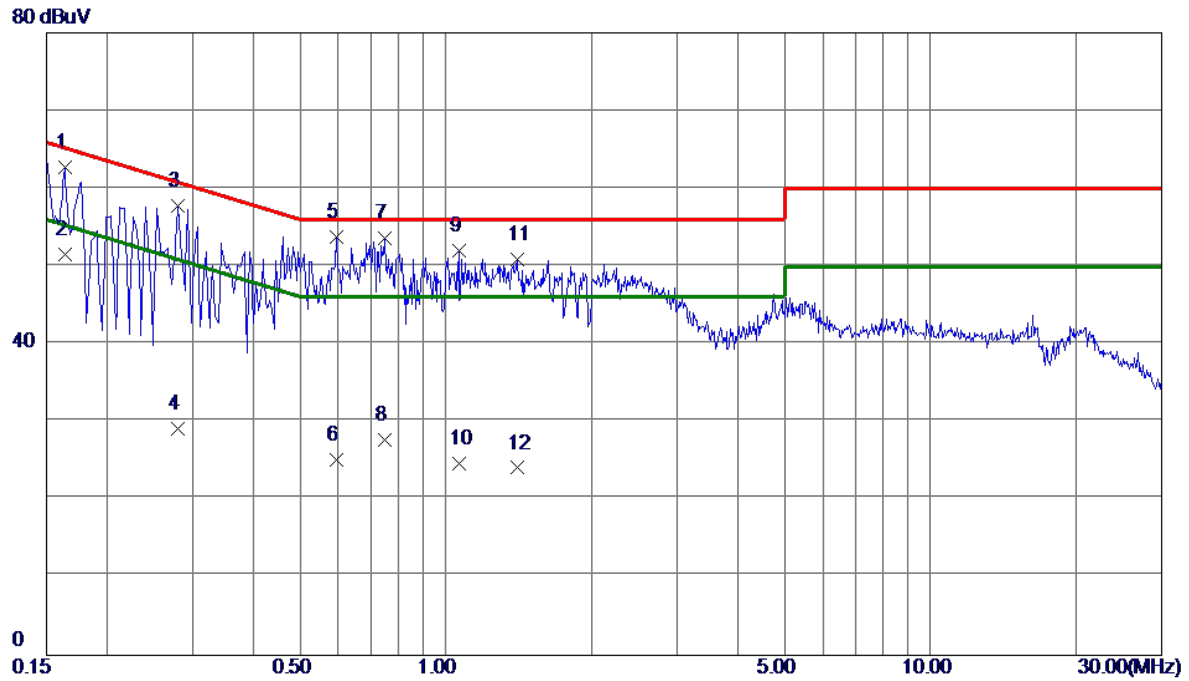
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	52.14	9.78	61.92	65.28	-3.36	Peak	
2	0.1635	26.99	9.78	36.77	55.28	-18.51	AVG	
3	0.1995	48.60	9.76	58.36	63.63	-5.27	Peak	
4	0.1995	25.10	9.76	34.86	53.63	-18.77	AVG	
5	0.4920	44.23	9.72	53.95	56.13	-2.18	Peak	
6	0.4920	20.40	9.72	30.12	46.13	-16.01	AVG	
7 *	0.7483	44.11	9.81	53.92	56.00	-2.08	Peak	
8	0.7483	17.51	9.81	27.32	46.00	-18.68	AVG	
9	0.8924	41.54	9.85	51.39	56.00	-4.61	Peak	
10	0.8924	16.90	9.85	26.75	46.00	-19.25	AVG	
11	1.2074	40.72	9.87	50.59	56.00	-5.41	Peak	
12	1.2074	16.60	9.87	26.47	46.00	-19.53	AVG	

Test Mode : Normal Link_Adapter: RC30-0238

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1635	53.06	9.67	62.73	65.28	-2.55	Peak	
2	0.1635	41.80	9.67	51.47	55.28	-3.81	AVG	
3	0.2805	48.05	9.65	57.70	60.80	-3.10	Peak	
4	0.2805	19.40	9.65	29.05	50.80	-21.75	AVG	
5 *	0.5954	44.12	9.66	53.78	56.00	-2.22	Peak	
6	0.5954	15.50	9.66	25.16	46.00	-20.84	AVG	
7	0.7481	43.83	9.71	53.54	56.00	-2.46	Peak	
8	0.7483	17.91	9.71	27.62	46.00	-18.38	AVG	
9	1.0634	42.28	9.75	52.03	56.00	-3.97	Peak	
10	1.0634	14.90	9.75	24.65	46.00	-21.35	AVG	
11	1.4010	41.09	9.77	50.86	56.00	-5.14	Peak	
12	1.4010	14.31	9.77	24.08	46.00	-21.92	AVG	

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

Test Mode:	TX B MODE CHANNEL 01_Adapter: RC30-024801
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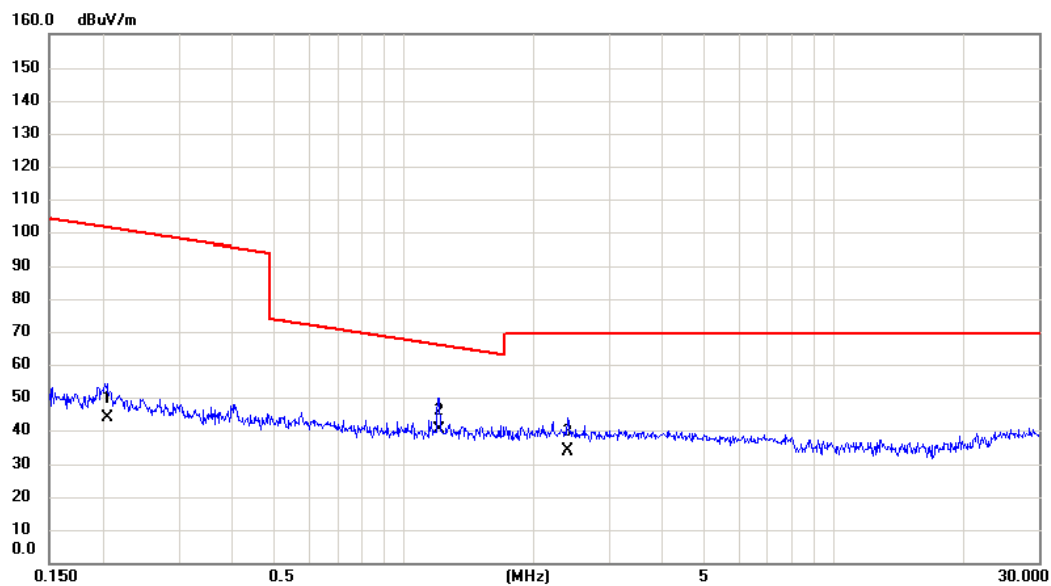
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0128	51.86	20.54	72.40	125.46	-53.06	AVG	
2		0.0323	54.23	19.23	73.46	117.42	-43.96	AVG	
3	*	0.0368	60.28	19.10	79.38	116.29	-36.91	AVG	

Test Mode:	TX B MODE CHANNEL 01_Adapter: RC30-024801
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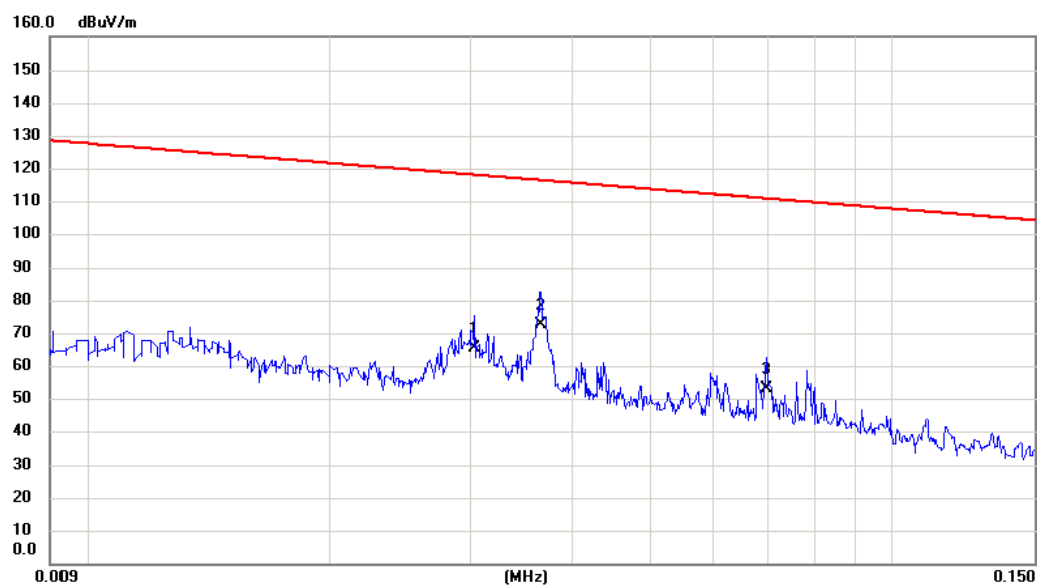
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2040	27.26	16.74	44.00	101.41	-57.41	AVG	
2	*	1.2098	24.33	15.72	40.05	65.95	-25.90	QP	
3		2.3962	18.62	15.28	33.90	69.54	-35.64	QP	

Test Mode:	TX B MODE CHANNEL 01_Adapter: RC30-024801
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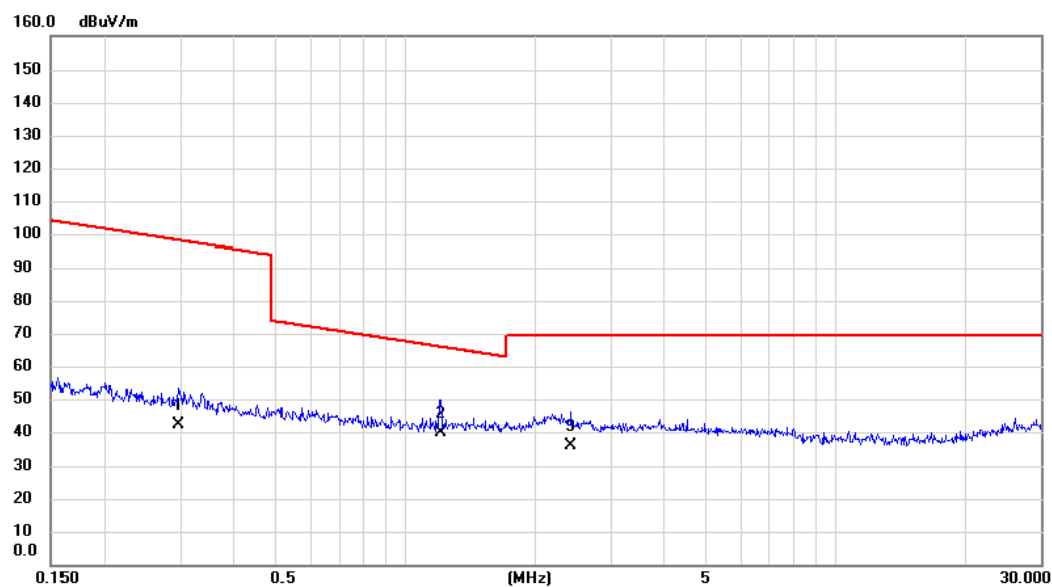
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0303	45.96	19.29	65.25	117.98	-52.73	AVG	
2	*	0.0366	53.32	19.10	72.42	116.34	-43.92	AVG	
3		0.0697	34.59	18.31	52.90	110.74	-57.84	AVG	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-024801

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2971	25.69	16.62	42.31	98.15	-55.84	AVG	
2	*	1.2098	24.19	15.81	40.00	65.95	-25.95	QP	
3		2.4218	20.36	15.39	35.75	69.54	-33.79	QP	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

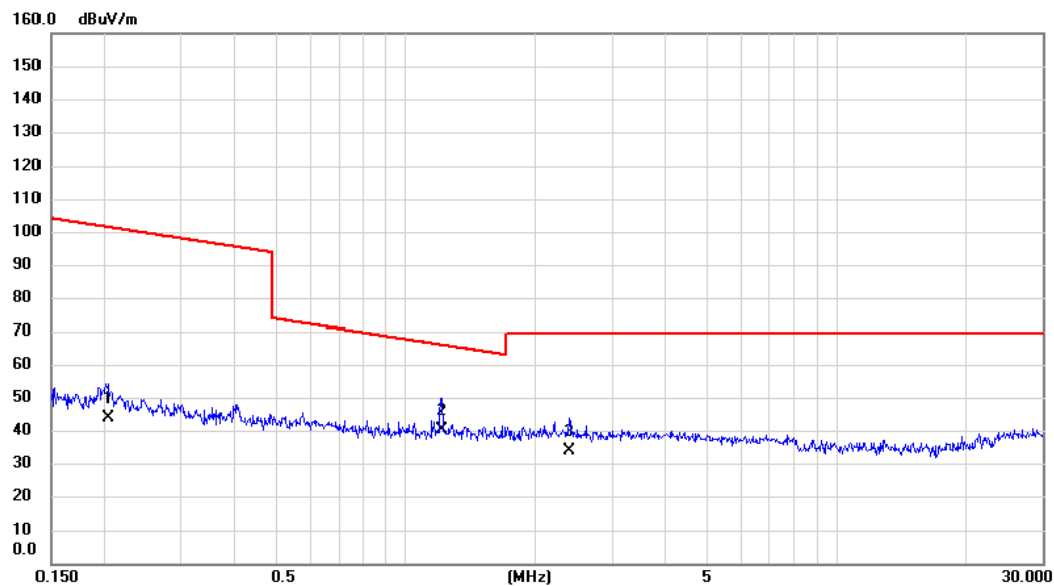
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0128	51.86	20.54	72.40	125.46	-53.06	AVG	
2		0.0323	54.23	19.23	73.46	117.42	-43.96	AVG	
3	*	0.0368	60.28	19.10	79.38	116.29	-36.91	AVG	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

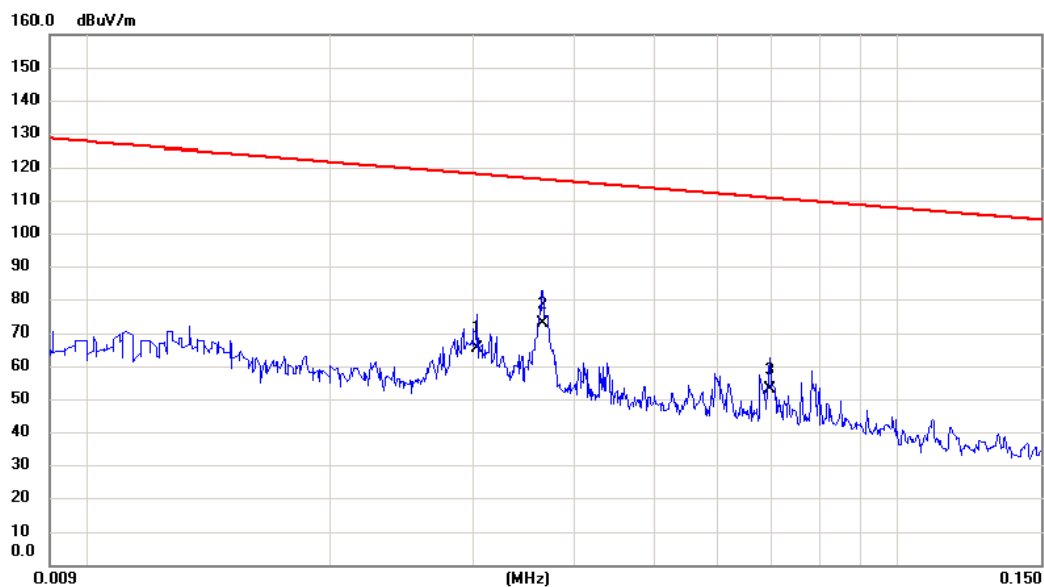
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2040	27.26	16.74	44.00	101.41	-57.41	AVG	
2	*	1.2098	24.33	15.72	40.05	65.95	-25.90	QP	
3		2.3962	18.62	15.28	33.90	69.54	-35.64	QP	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

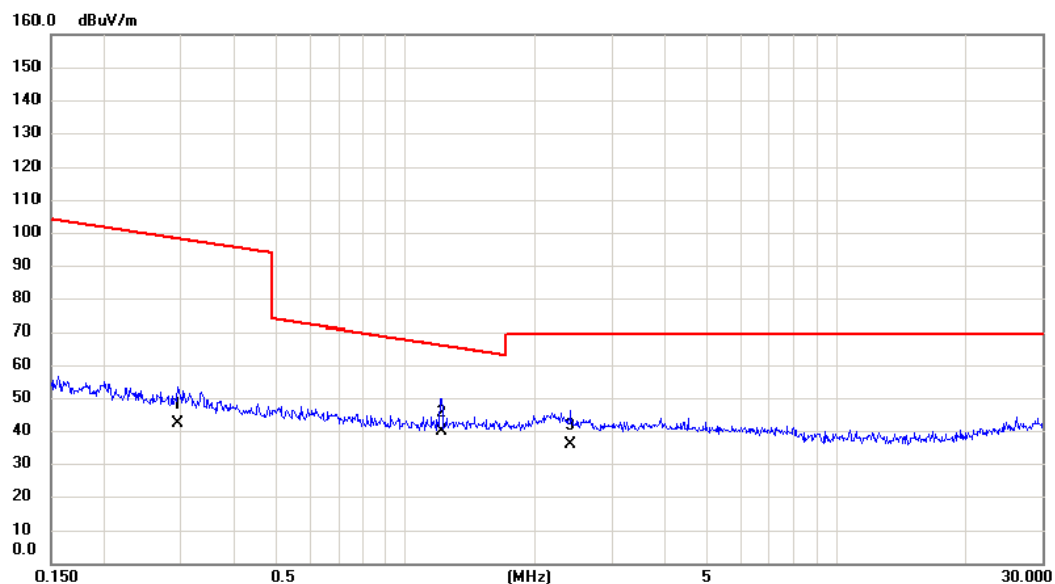
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0303	45.96	19.29	65.25	117.98	-52.73	AVG	
2	*	0.0366	53.32	19.10	72.42	116.34	-43.92	AVG	
3		0.0697	34.59	18.31	52.90	110.74	-57.84	AVG	

Test Mode: TX B MODE CHANNEL 01_Adapter: RC30-0238

Ant 90°

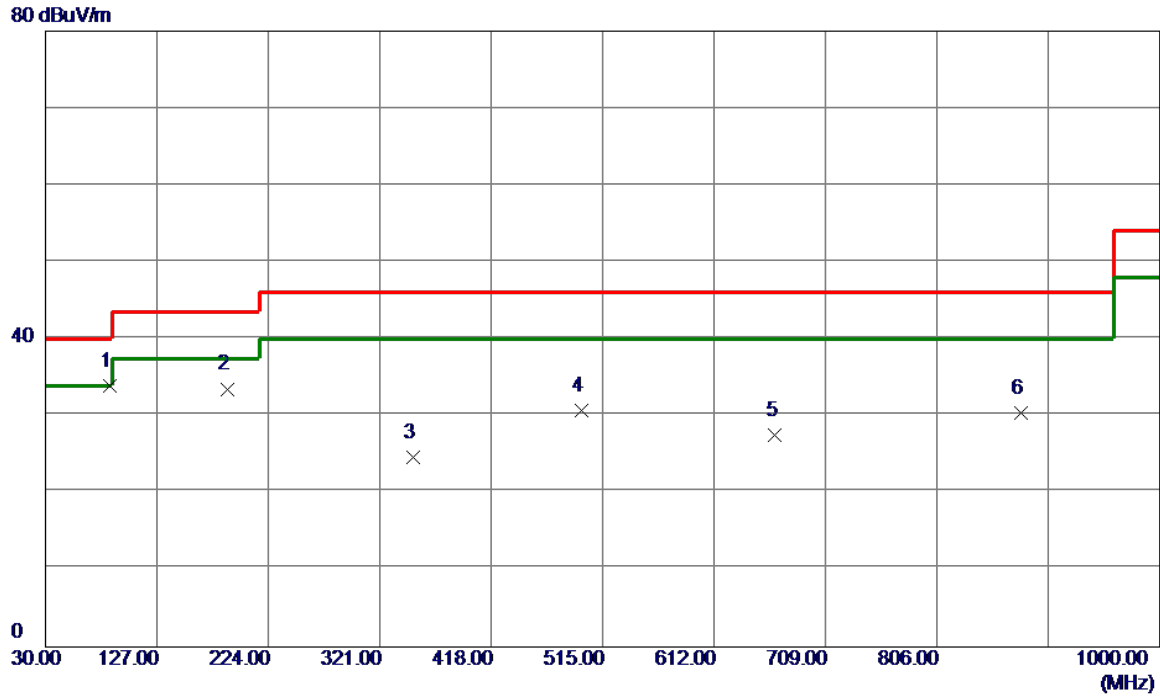


No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2971	25.69	16.62	42.31	98.15	-55.84	AVG	
2	*	1.2098	24.19	15.81	40.00	65.95	-25.95	QP	
3		2.4218	20.36	15.39	35.75	69.54	-33.79	QP	

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

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: RC30-024801

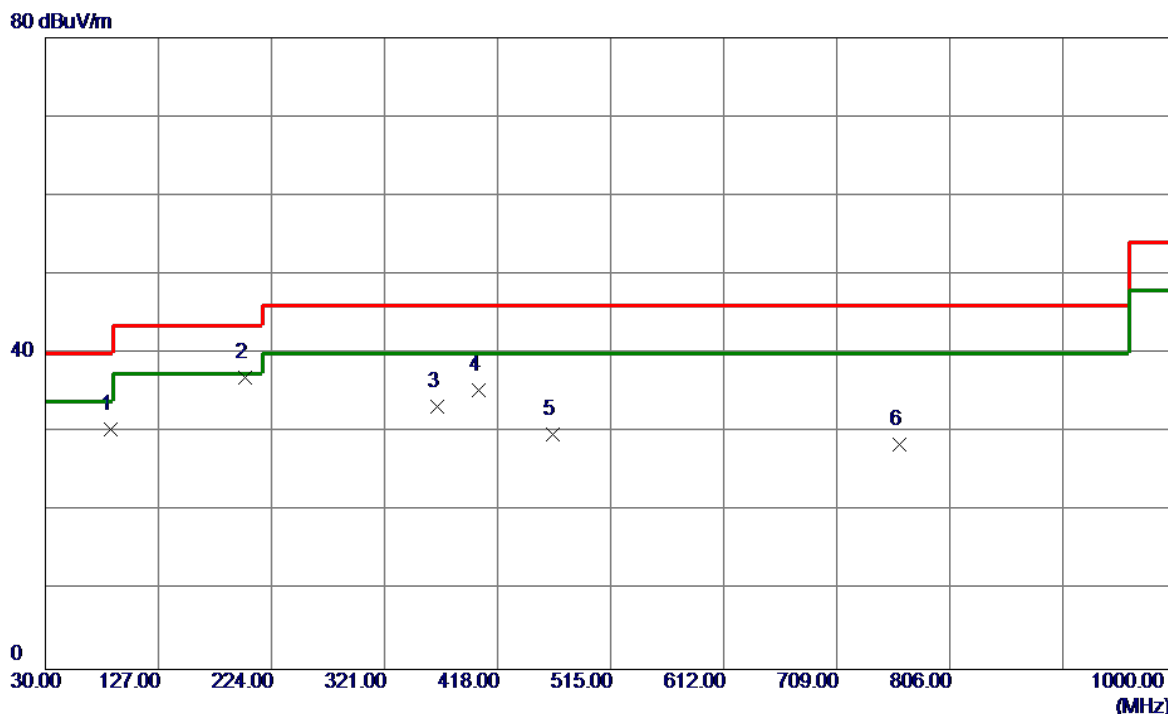
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	86.2600	52.31	-18.46	33.85	40.00	-6.15	Peak	
2	188.1100	46.21	-12.69	33.52	43.50	-9.98	Peak	
3	350.1000	36.58	-11.95	24.63	46.00	-21.37	Peak	
4	496.5700	39.47	-8.80	30.67	46.00	-15.33	Peak	
5	665.3500	32.57	-5.00	27.57	46.00	-18.43	Peak	
6	879.7200	29.82	0.61	30.43	46.00	-15.57	Peak	

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: RC30-024801

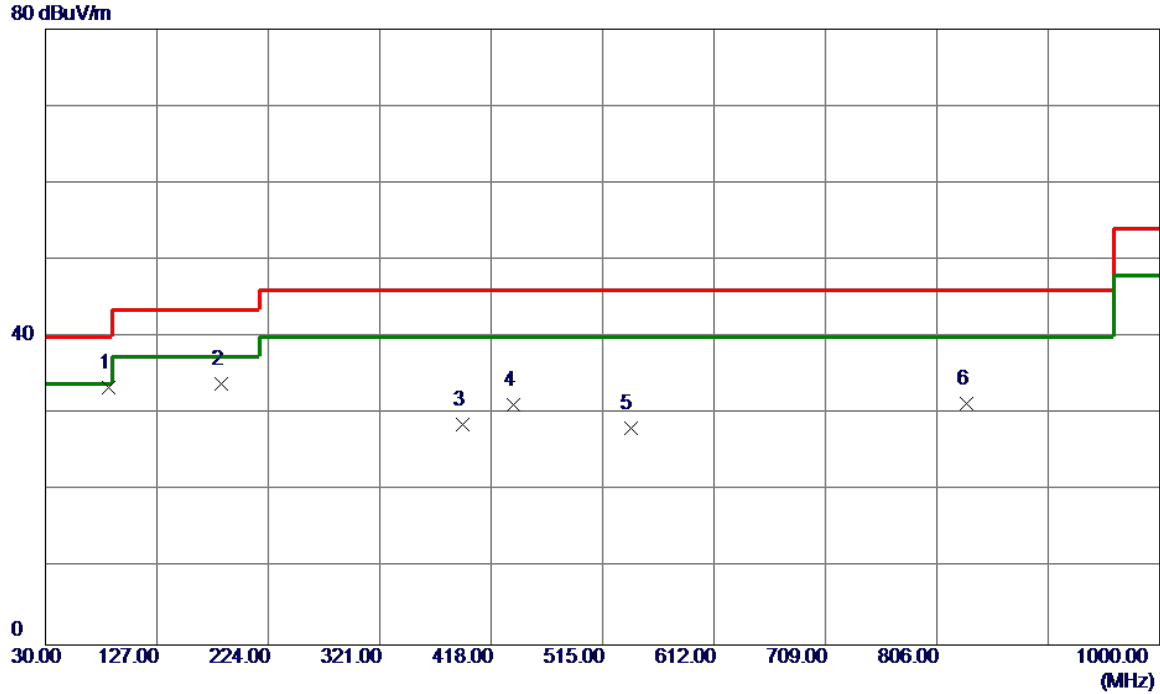
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	86.2600	48.86	-18.46	30.40	40.00	-9.60	Peak	
2 *	201.6900	50.77	-13.79	36.98	43.50	-6.52	Peak	
3	366.5900	45.07	-11.76	33.31	46.00	-12.69	Peak	
4	401.5100	46.74	-11.32	35.42	46.00	-10.58	Peak	
5	465.5300	39.33	-9.56	29.77	46.00	-16.23	Peak	
6	763.3200	30.66	-2.16	28.50	46.00	-17.50	Peak	

Test Mode: TX 2441MHz _CH39_1Mbps_Adapter: RC30-024801

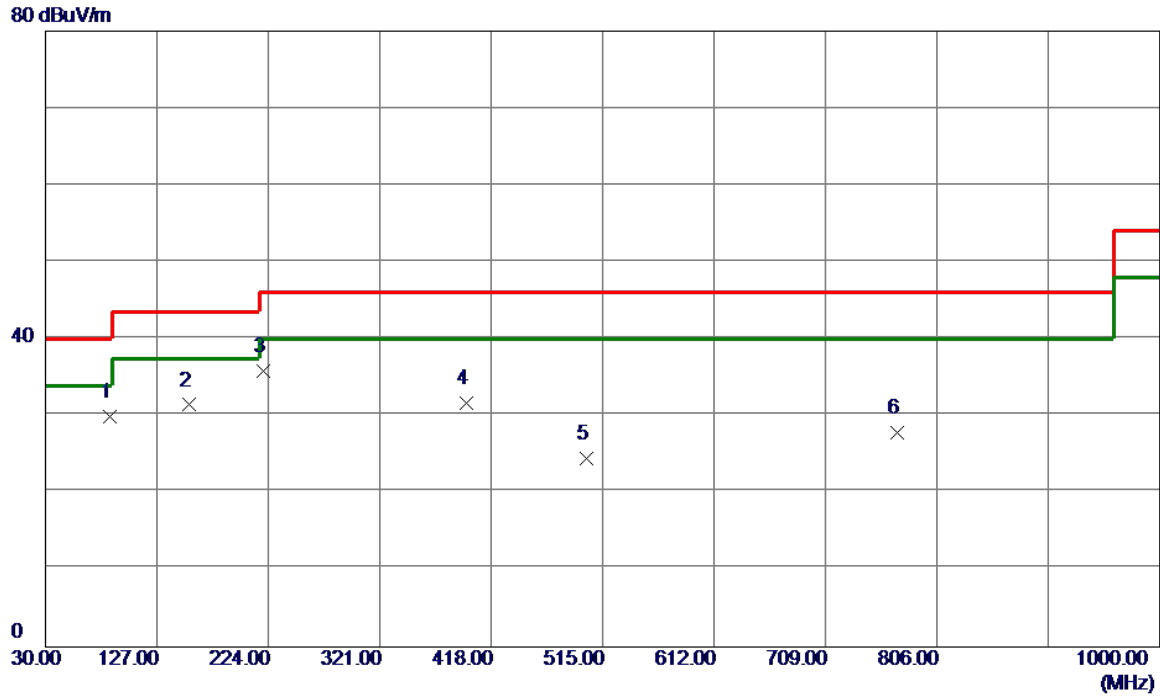
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	85.2900	51.88	-18.41	33.47	40.00	-6.53	Peak	
2	183.2600	46.19	-12.30	33.89	43.50	-9.61	Peak	
3	392.7800	40.02	-11.45	28.57	46.00	-17.43	Peak	
4	437.4000	41.46	-10.30	31.16	46.00	-14.84	Peak	
5	539.2500	36.15	-7.93	28.22	46.00	-17.78	Peak	
6	832.1900	31.90	-0.48	31.42	46.00	-14.58	Peak	

Test Mode: TX 2441MHz _CH39_1Mbps_Adapter: RC30-024801

Horizontal

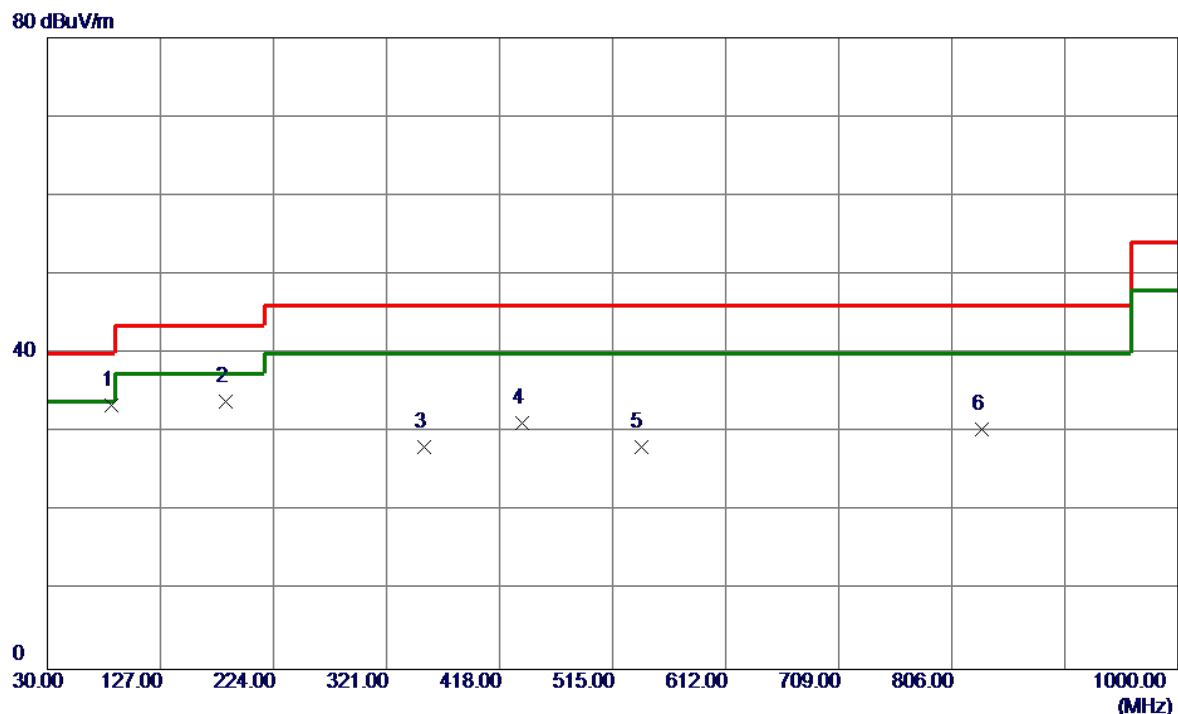


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	86.2600	48.35	-18.46	29.89	40.00	-10.11	Peak	
2	155.1300	44.66	-13.22	31.44	43.50	-12.06	Peak	
3	220.1200	49.70	-13.91	35.79	46.00	-10.21	Peak	
4	396.6600	43.04	-11.40	31.64	46.00	-14.36	Peak	
5	501.4200	33.20	-8.69	24.51	46.00	-21.49	Peak	
6	771.0800	29.76	-1.99	27.77	46.00	-18.23	Peak	

Test Mode:

TX 2480MHz _CH78_1Mbps_Adapter: RC30-024801

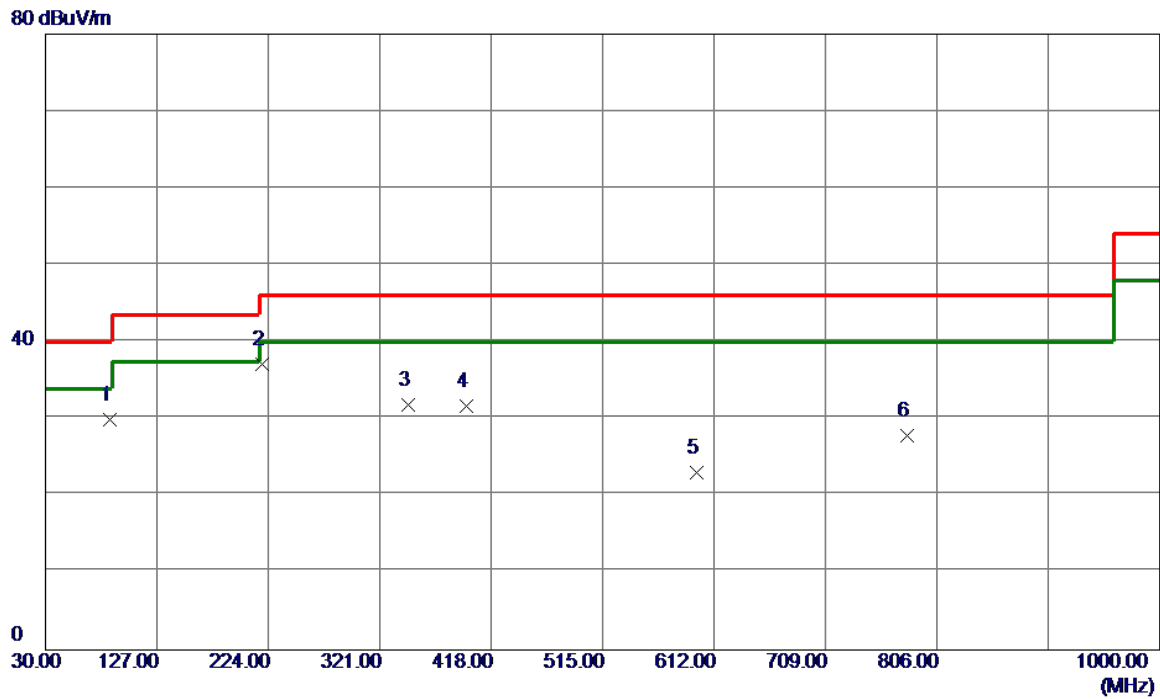
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	85.2900	51.88	-18.41	33.47	40.00	-6.53	Peak	
2	183.2600	46.19	-12.30	33.89	43.50	-9.61	Peak	
3	353.0100	40.09	-11.92	28.17	46.00	-17.83	Peak	
4	437.4000	41.46	-10.30	31.16	46.00	-14.84	Peak	
5	539.2500	36.15	-7.93	28.22	46.00	-17.78	Peak	
6	832.1900	30.90	-0.48	30.42	46.00	-15.58	Peak	

Test Mode: TX 2480MHz _CH78_1Mbps_Adapter: RC30-024801

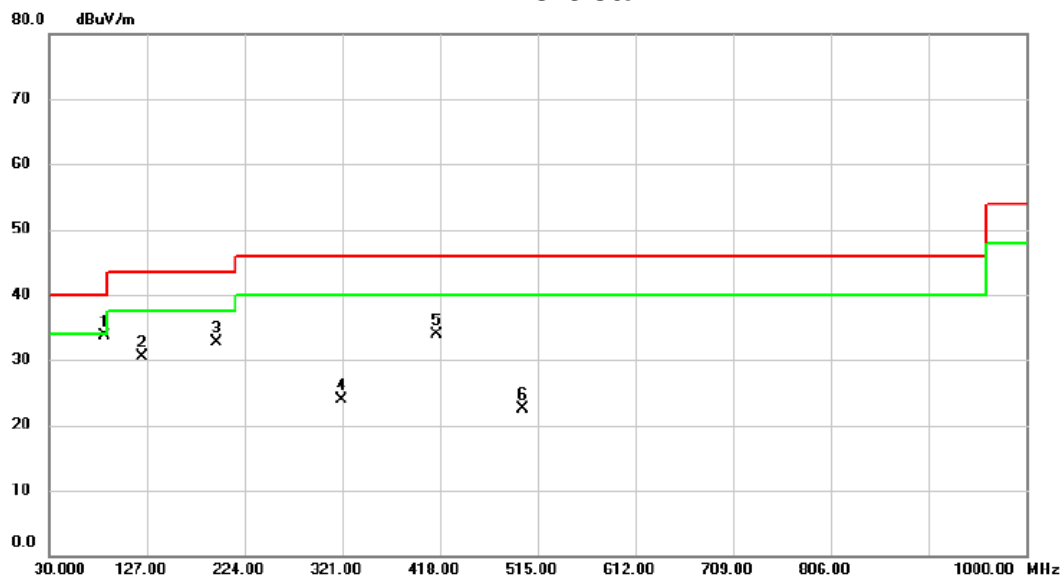
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	86.2600	48.35	-18.46	29.89	40.00	-10.11	Peak	
2 *	218.1800	51.07	-13.92	37.15	46.00	-8.85	Peak	
3	346.2200	43.80	-12.02	31.78	46.00	-14.22	Peak	
4	396.6600	43.04	-11.40	31.64	46.00	-14.36	Peak	
5	596.4800	29.50	-6.51	22.99	46.00	-23.01	Peak	
6	779.8100	29.63	-1.80	27.83	46.00	-18.17	Peak	

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: RC30-0238

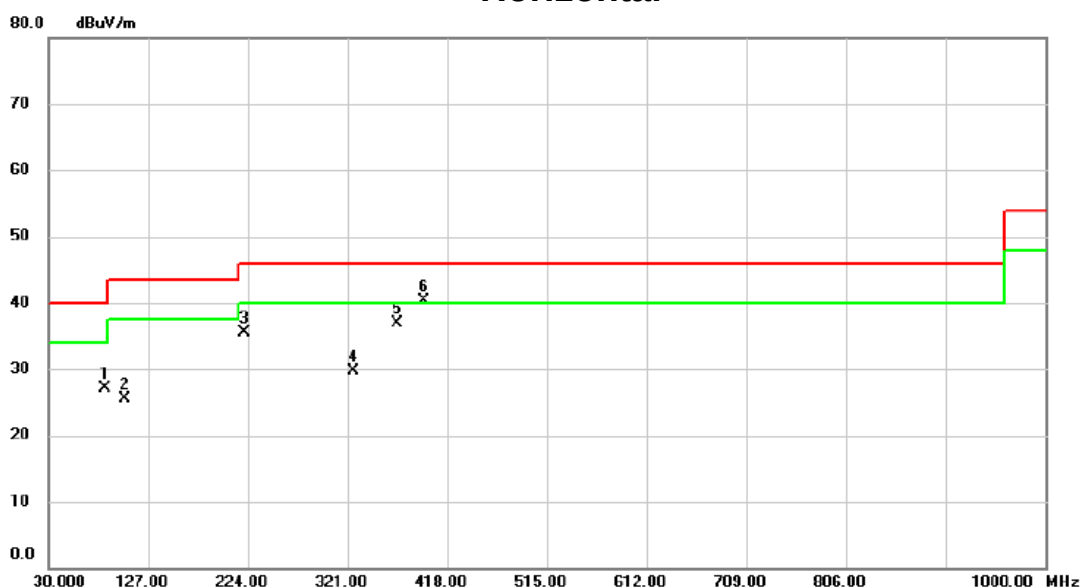
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	85.290	52.20	-18.42	33.78	40.00	-6.22	peak	
2		122.150	45.65	-15.24	30.41	43.50	-13.09	peak	
3		195.870	46.02	-13.38	32.64	43.50	-10.86	peak	
4		320.030	36.44	-12.48	23.96	46.00	-22.04	peak	
5		414.120	44.96	-10.97	33.99	46.00	-12.01	peak	
6		499.480	31.15	-8.73	22.42	46.00	-23.58	peak	

Test Mode: TX 2402MHz _CH00_1Mbps_Adapter: RC30-0238

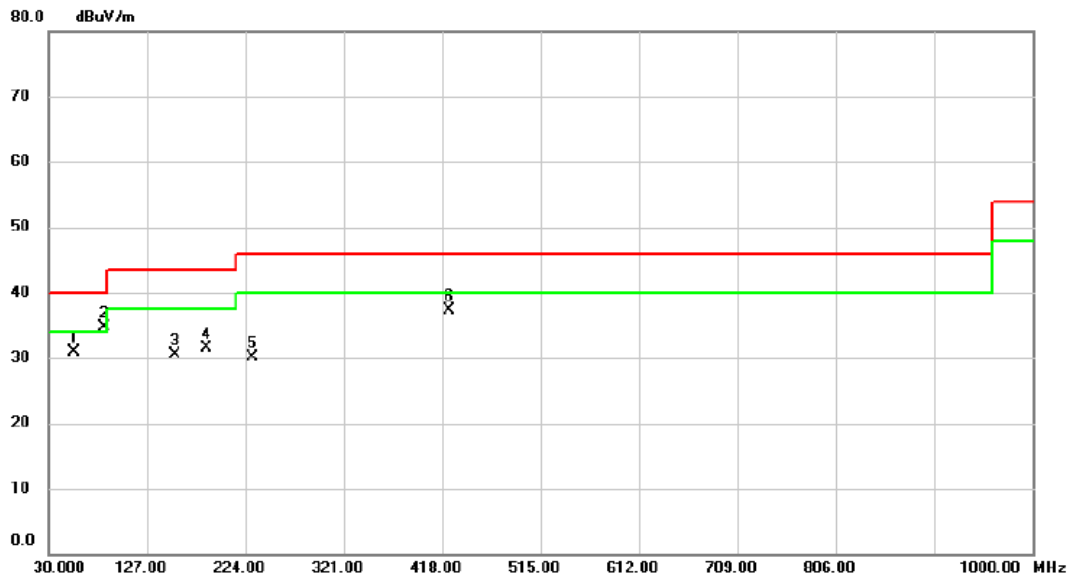
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		85.290	45.50	-18.42	27.08	40.00	-12.92	peak	
2		103.720	42.43	-17.00	25.43	43.50	-18.07	peak	
3		220.120	49.40	-13.90	35.50	46.00	-10.50	peak	
4		326.820	42.14	-12.36	29.78	46.00	-16.22	peak	
5		369.500	48.67	-11.72	36.95	46.00	-9.05	peak	
6	*	395.690	51.64	-11.41	40.23	46.00	-5.77	peak	

Test Mode: TX 2441MHz _CH39_1Mbps_Adapter: RC30-0238

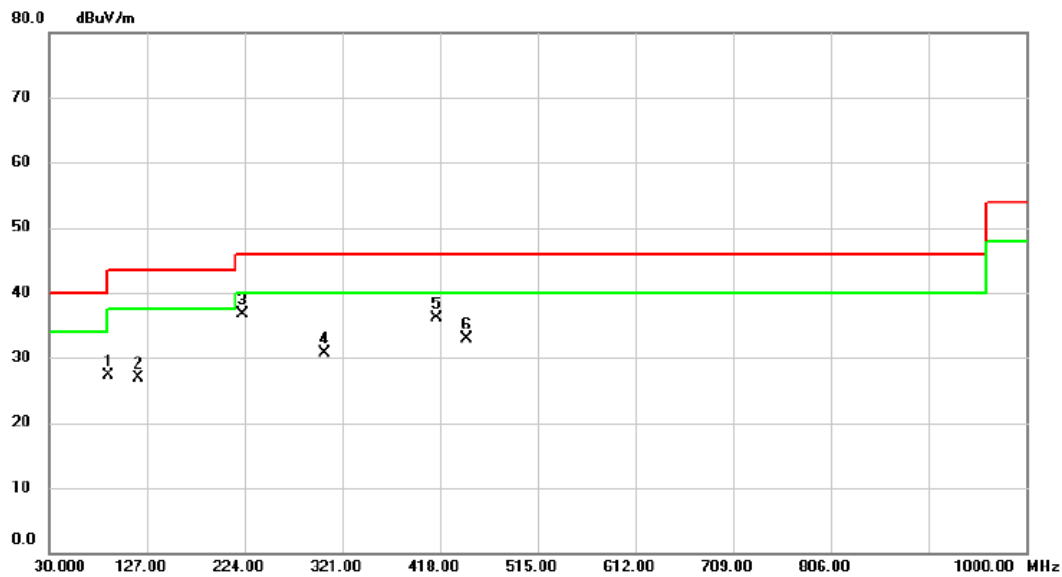
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	55.220	44.77	-13.94	30.83	40.00	-9.17	peak	
2 *	85.290	53.05	-18.42	34.63	40.00	-5.37	peak	
3	155.130	43.76	-13.21	30.55	43.50	-12.95	peak	
4	186.170	43.99	-12.54	31.45	43.50	-12.05	peak	
5	230.790	44.16	-14.14	30.02	46.00	-15.98	peak	
6	424.790	47.94	-10.66	37.28	46.00	-8.72	peak	

Test Mode: TX 2441MHz _CH39_1Mbps_Adapter: RC30-0238

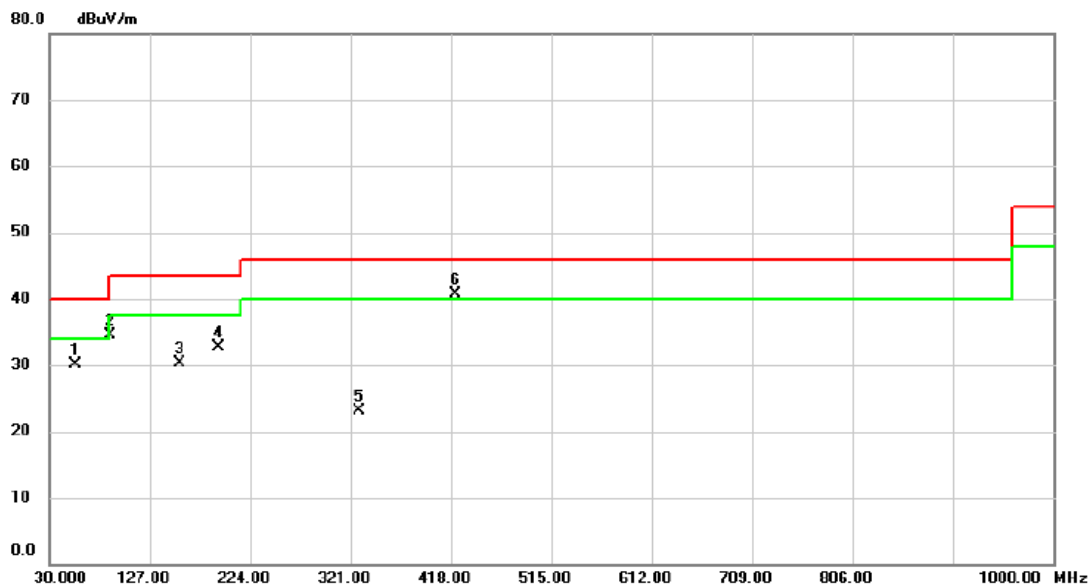
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	88.200	45.80	-18.56	27.24	43.50	-16.26	peak	
2	118.270	42.42	-15.53	26.89	43.50	-16.61	peak	
3 *	222.060	50.69	-13.95	36.74	46.00	-9.26	peak	
4	303.540	43.41	-12.77	30.64	46.00	-15.36	peak	
5	415.090	47.03	-10.93	36.10	46.00	-9.90	peak	
6	444.190	42.99	-10.10	32.89	46.00	-13.11	peak	

Test Mode: TX 2480MHz _CH78_1Mbps_Adapter: RC30-0238

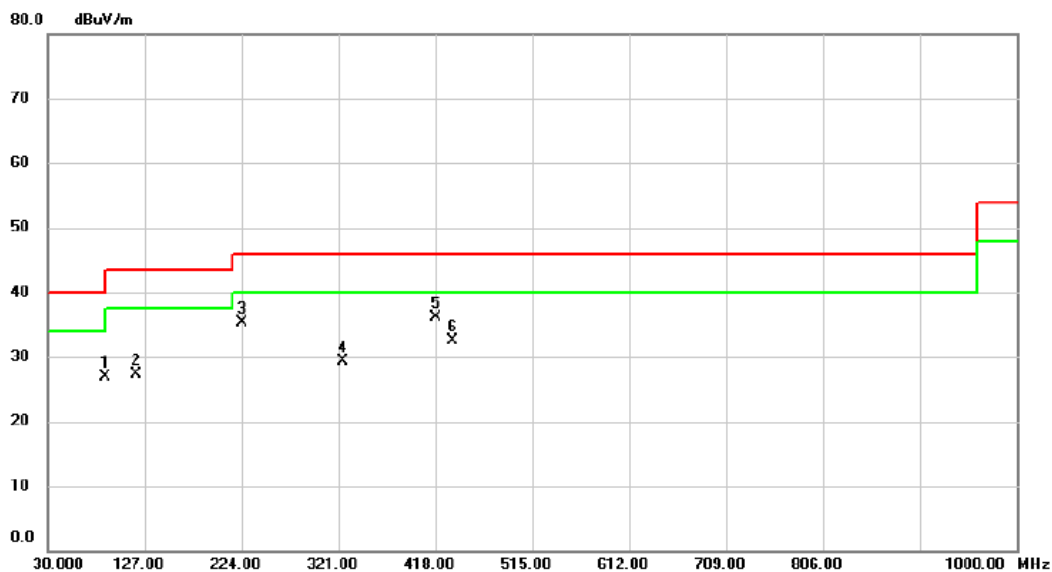
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		55.220	43.96	-13.94	30.02	40.00	-9.98	peak	
2		88.200	53.01	-18.56	34.45	43.50	-9.05	peak	
3		156.100	43.54	-13.16	30.38	43.50	-13.12	peak	
4		192.960	45.82	-13.12	32.70	43.50	-10.80	peak	
5		329.730	35.36	-12.31	23.05	46.00	-22.95	peak	
6	*	421.880	51.42	-10.74	40.68	46.00	-5.32	peak	

Test Mode: TX 2480MHz _CH78_1Mbps_Adapter: RC30-0238

Horizontal



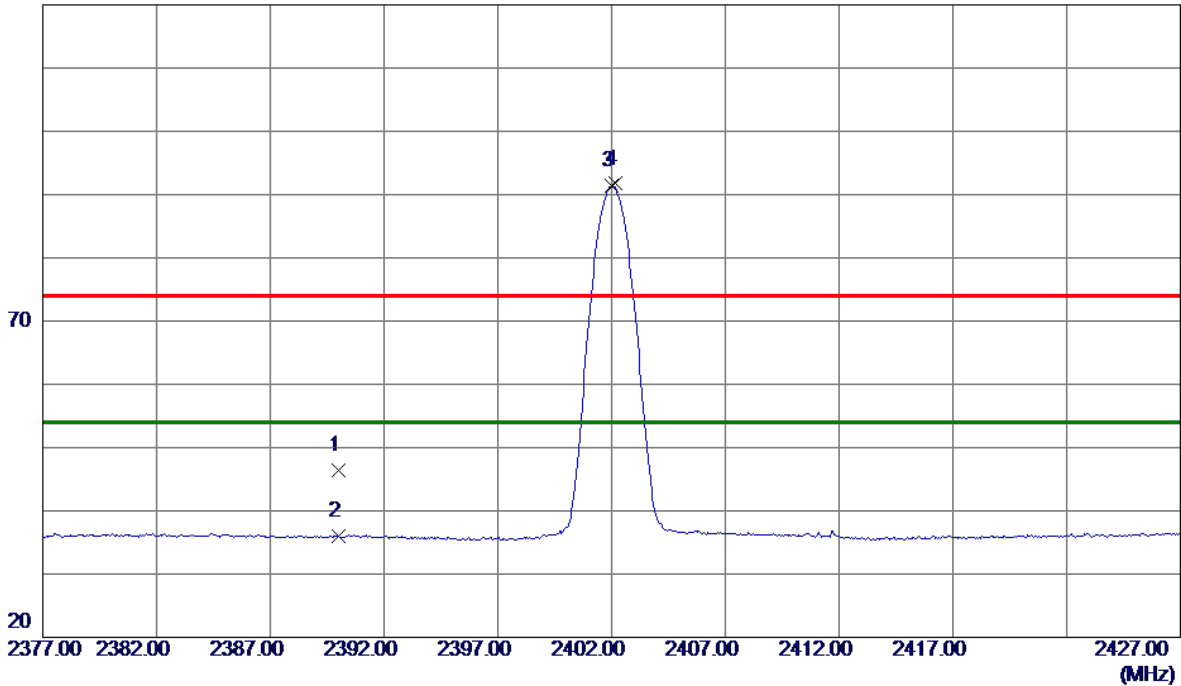
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		87.230	45.33	-18.51	26.82	40.00	-13.18	peak	
2		118.270	42.89	-15.53	27.36	43.50	-16.14	peak	
3		224.970	49.23	-14.02	35.21	46.00	-10.79	peak	
4		325.850	41.60	-12.37	29.23	46.00	-16.77	peak	
5	*	418.000	46.90	-10.85	36.05	46.00	-9.95	peak	
6		435.460	42.90	-10.36	32.54	46.00	-13.46	peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical

120 dBuV/m

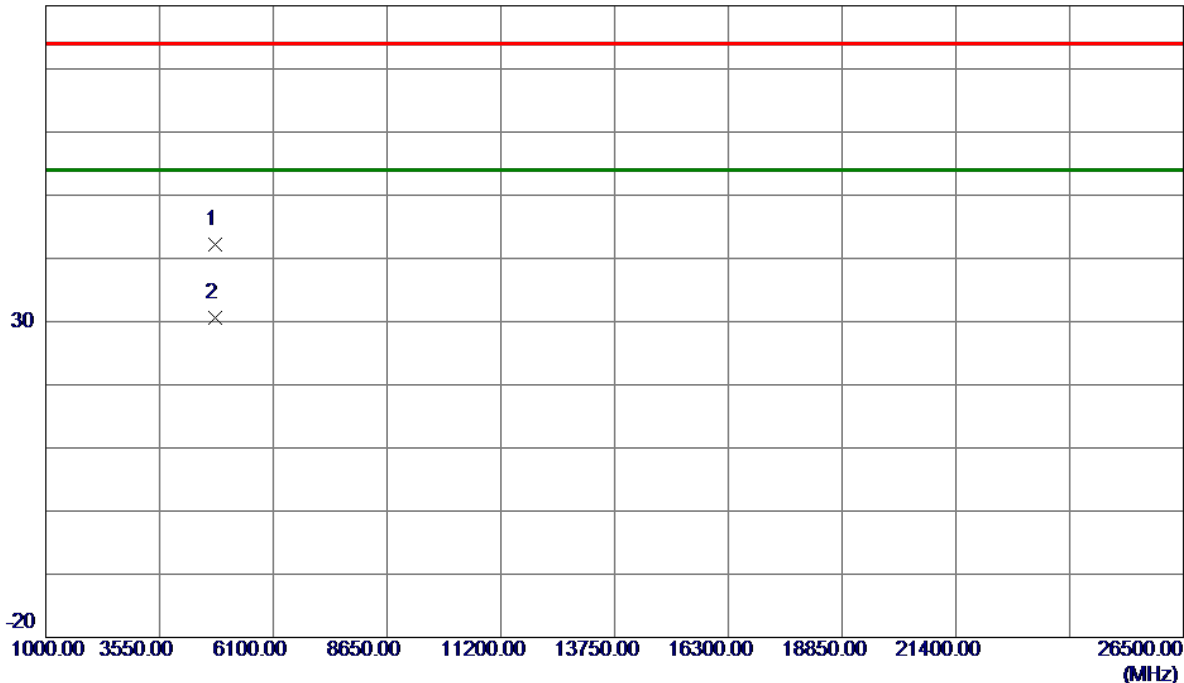


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	37.34	9.14	46.48	74.00	-27.52	Peak	
2	2390.0000	26.86	9.14	36.00	54.00	-18.00	AVG	
3 *	2402.0000	82.19	9.18	91.37	54.00	37.37	AVG	No Limit
4	2402.1500	82.52	9.18	91.70	74.00	17.70	Peak	No Limit

Test Mode :	TX 2402MHz _CH00_1Mbps
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Vertical

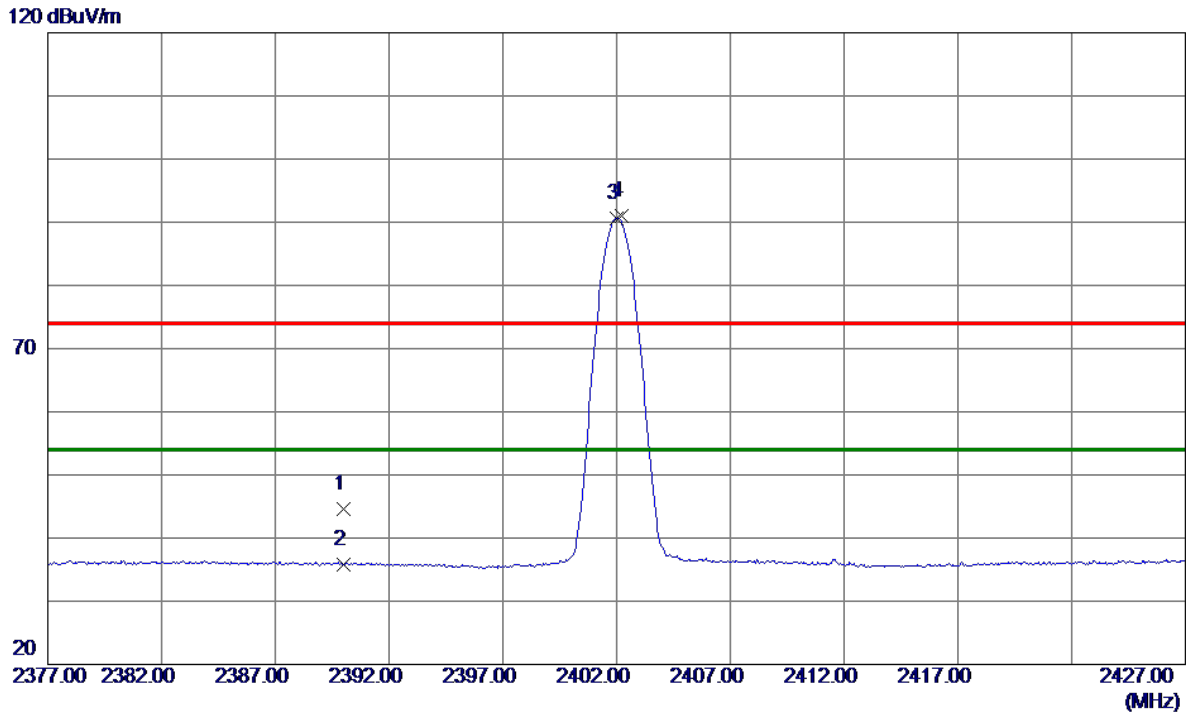
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4802.2799	35.58	6.58	42.16	74.00	-31.84	Peak	
2 *	4804.3400	23.99	6.59	30.58	54.00	-23.42	AVG	

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	35.47	9.14	44.61	74.00	-29.39	Peak	
2	2390.0000	26.60	9.14	35.74	54.00	-18.26	AVG	
3 *	2402.0000	81.50	9.18	90.68	54.00	36.68	AVG	No Limit
4	2402.2000	81.79	9.18	90.97	74.00	16.97	Peak	No Limit

Test Mode :	TX 2402MHz _CH00_1Mbps
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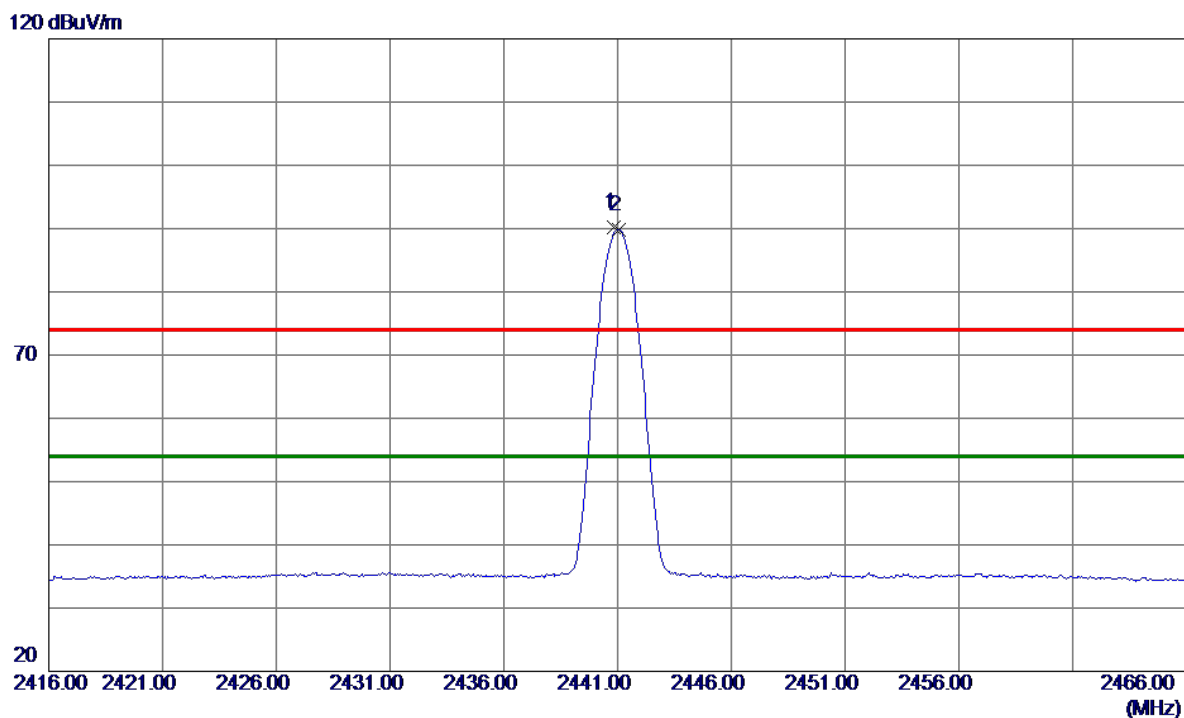
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4804.8200	23.52	6.59	30.11	54.00	-23.89	AVG	
2	4808.5800	34.74	6.60	41.34	74.00	-32.66	Peak	

Test Mode : TX 2441MHz _CH39_1Mbps

Vertical

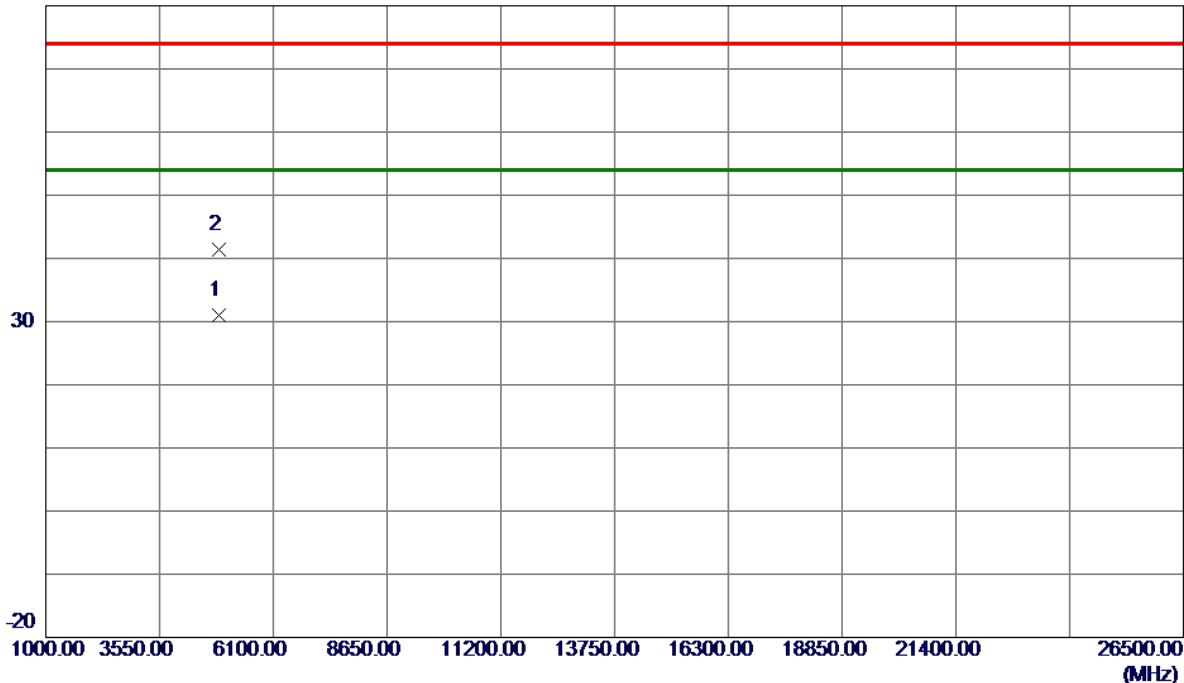


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2440.8500	80.82	9.33	90.15	74.00	16.15	Peak	No Limit
2 *	2441.0500	80.51	9.33	89.84	54.00	35.84	AVG	No Limit

Test Mode :	TX 2441MHz _CH39_ 1Mbps
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Vertical

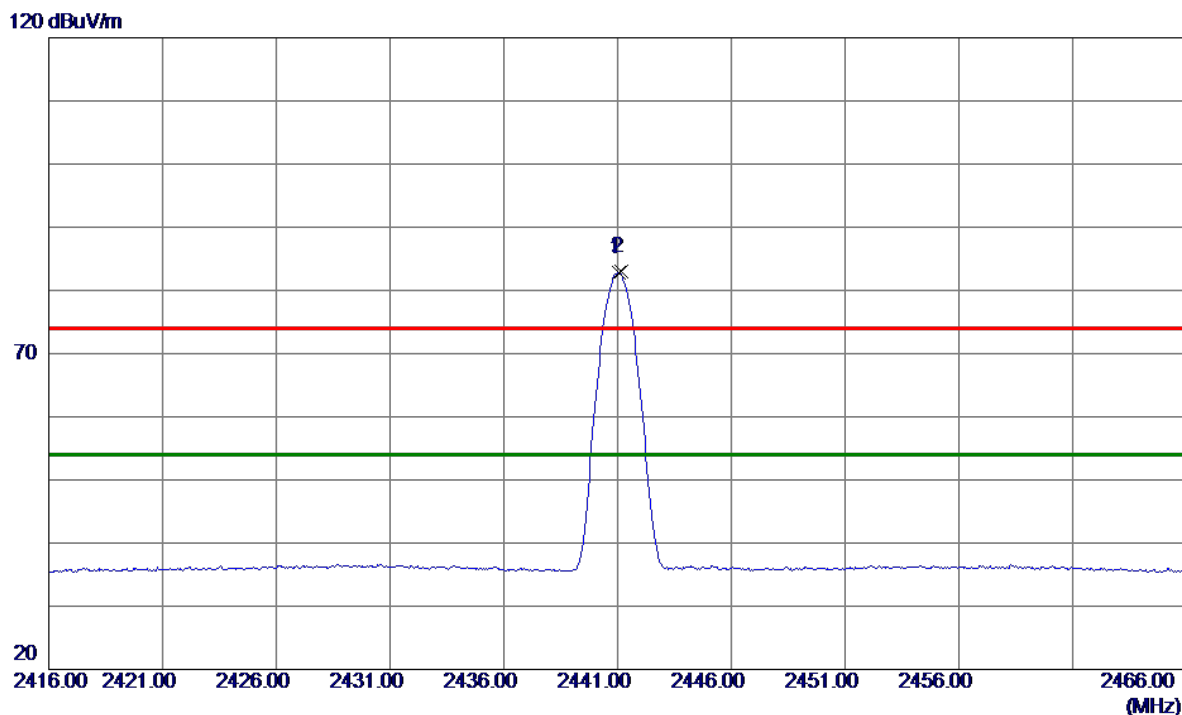
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4888.0400	24.14	6.89	31.03	54.00	-22.97	AVG	
2	4891.7000	34.56	6.90	41.46	74.00	-32.54	Peak	

Test Mode : TX 2441MHz _CH39_1Mbps

Horizontal

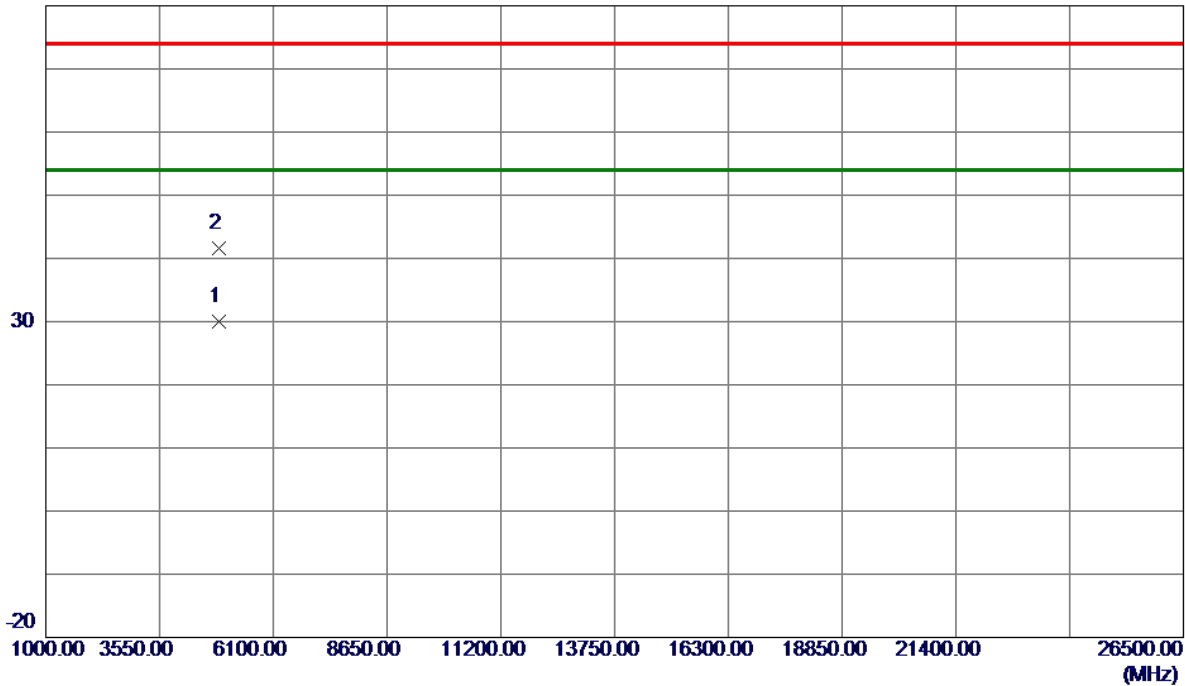


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2441.0500	73.42	9.33	82.75	54.00	28.75	AVG	No Limit
2	2441.1500	73.74	9.33	83.07	74.00	9.07	Peak	No Limit

Test Mode :	TX 2441MHz _CH39_ 1Mbps
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Horizontal

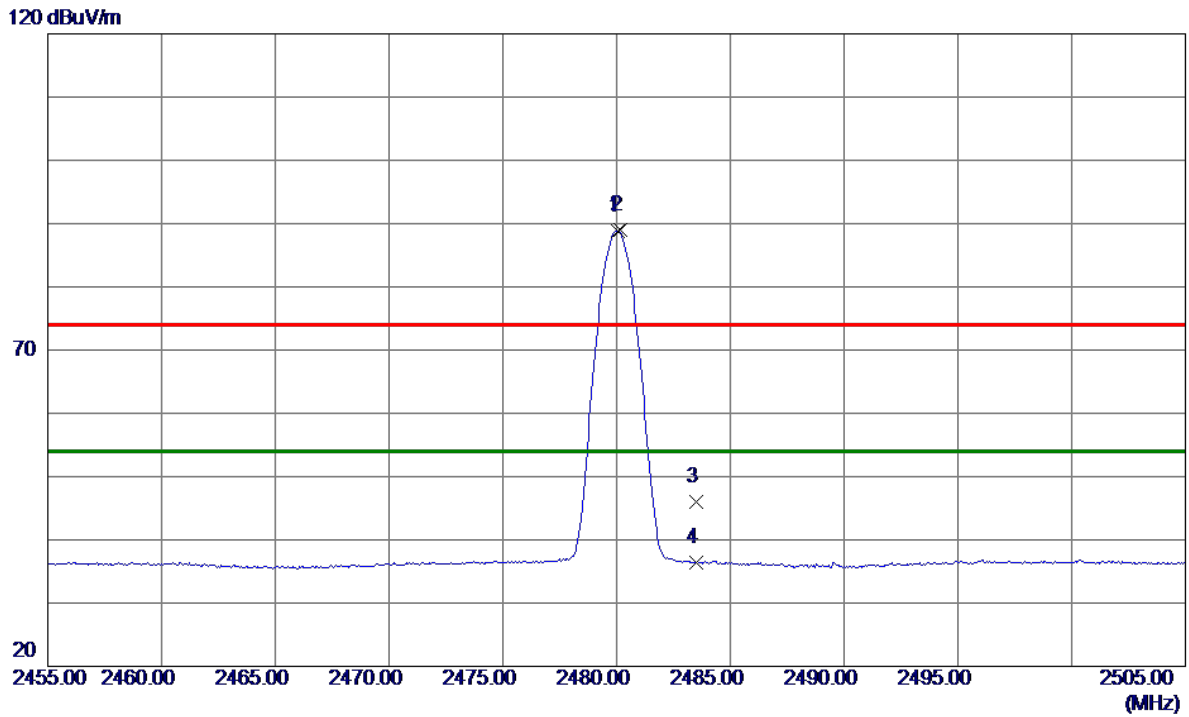
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4880.0600	23.16	6.86	30.02	54.00	-23.98	AVG	
2	4890.2000	34.68	6.90	41.58	74.00	-32.42	Peak	

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical

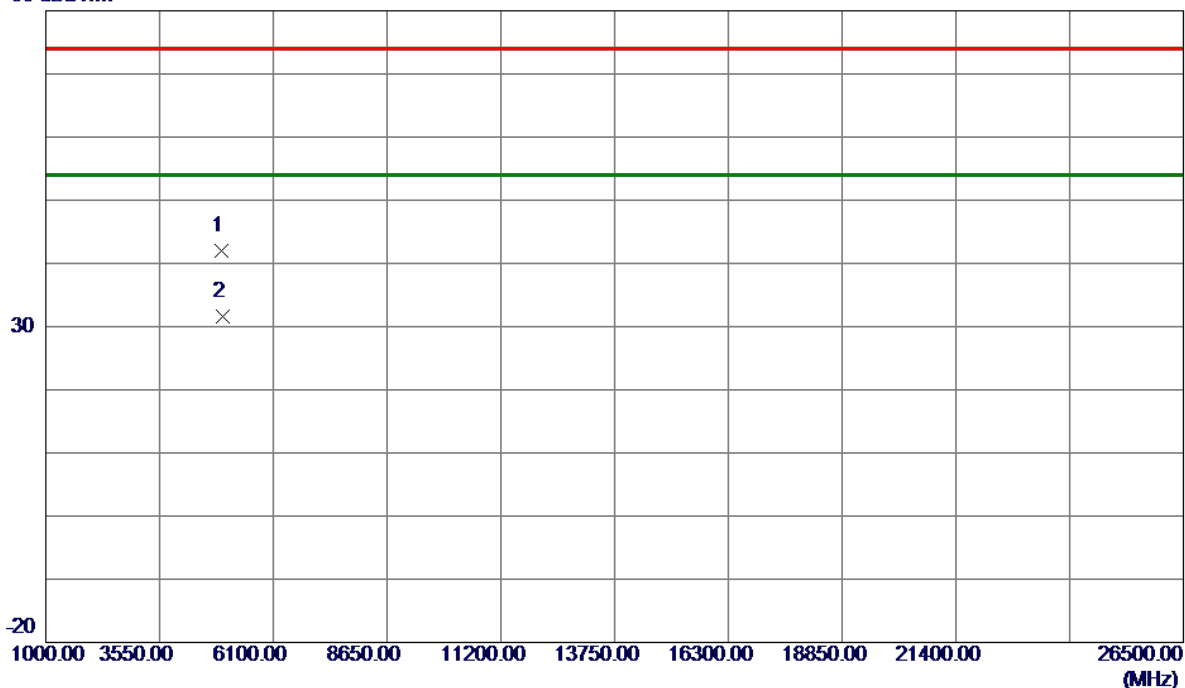


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2480.0500	79.32	9.47	88.79	54.00	34.79	AVG	No Limit
2	2480.1500	79.60	9.47	89.07	74.00	15.07	Peak	No Limit
3	2483.5000	36.57	9.48	46.05	74.00	-27.95	Peak	
4	2483.5000	26.94	9.48	36.42	54.00	-17.58	AVG	

Test Mode :	TX 2480MHz _CH78_ 1Mbps
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Vertical

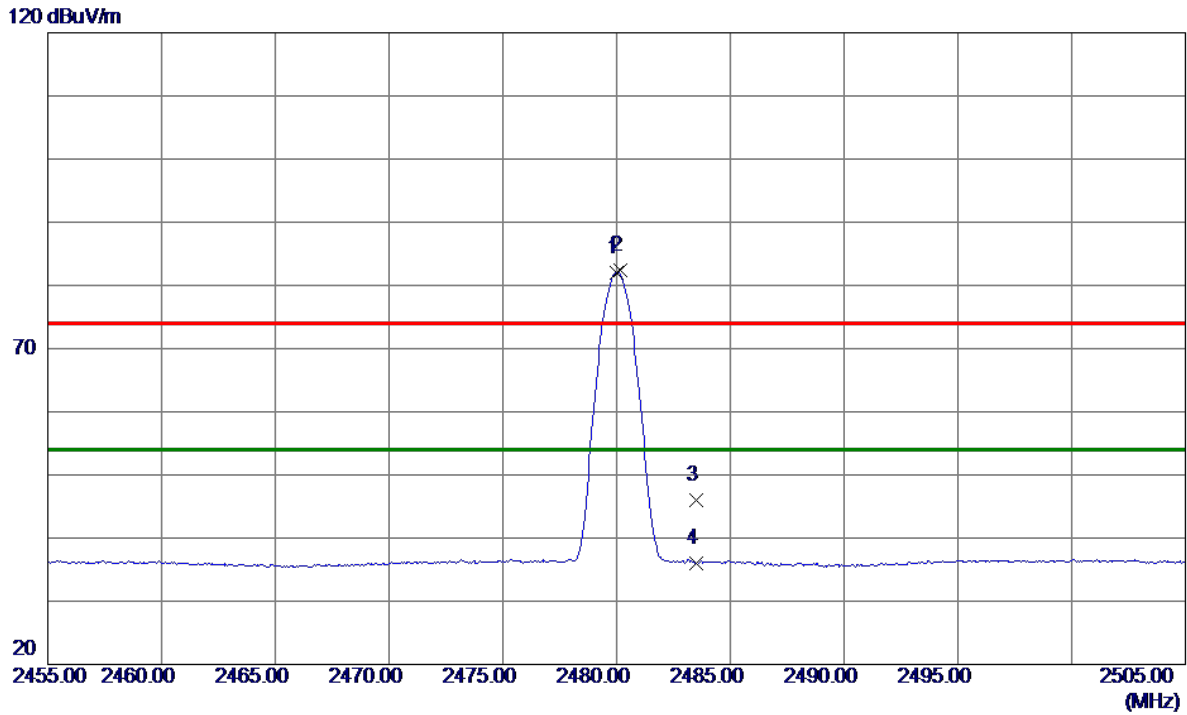
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4951.1600	34.89	7.11	42.00	74.00	-32.00	Peak	
2 *	4963.1200	24.36	7.16	31.52	54.00	-22.48	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

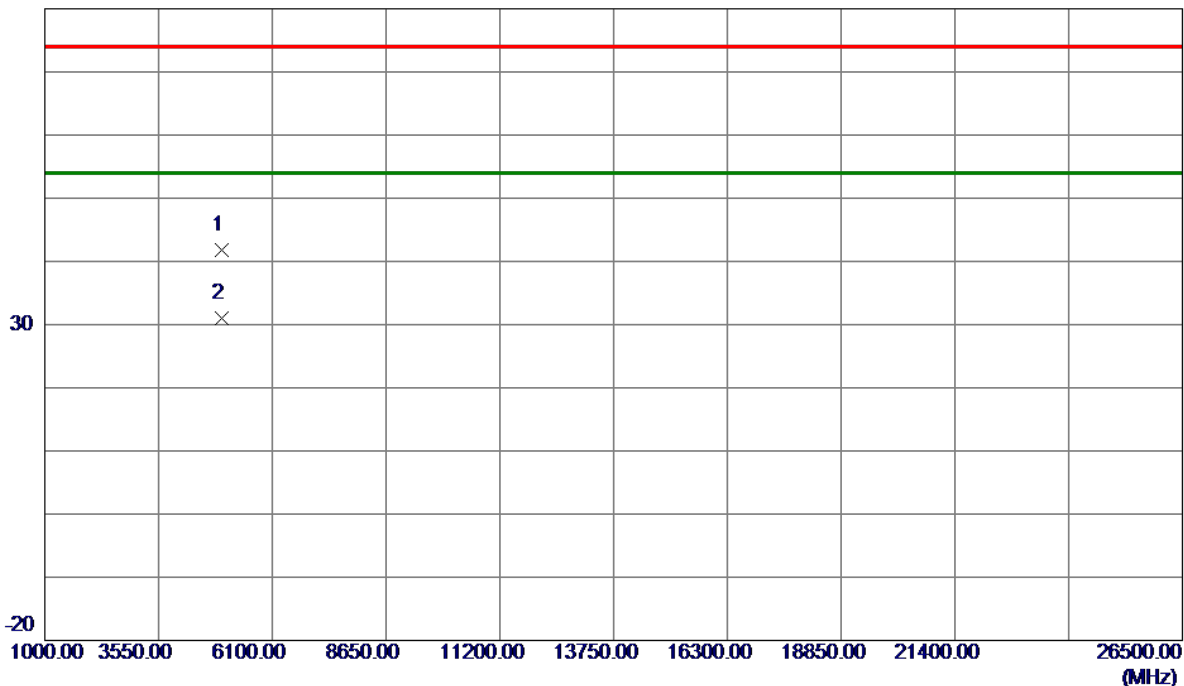


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2480.0000	72.54	9.47	82.01	54.00	28.01	AVG	No Limit
2	2480.1500	72.87	9.47	82.34	74.00	8.34	Peak	No Limit
3	2483.5000	36.52	9.48	46.00	74.00	-28.00	Peak	
4	2483.5000	26.49	9.48	35.97	54.00	-18.03	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal

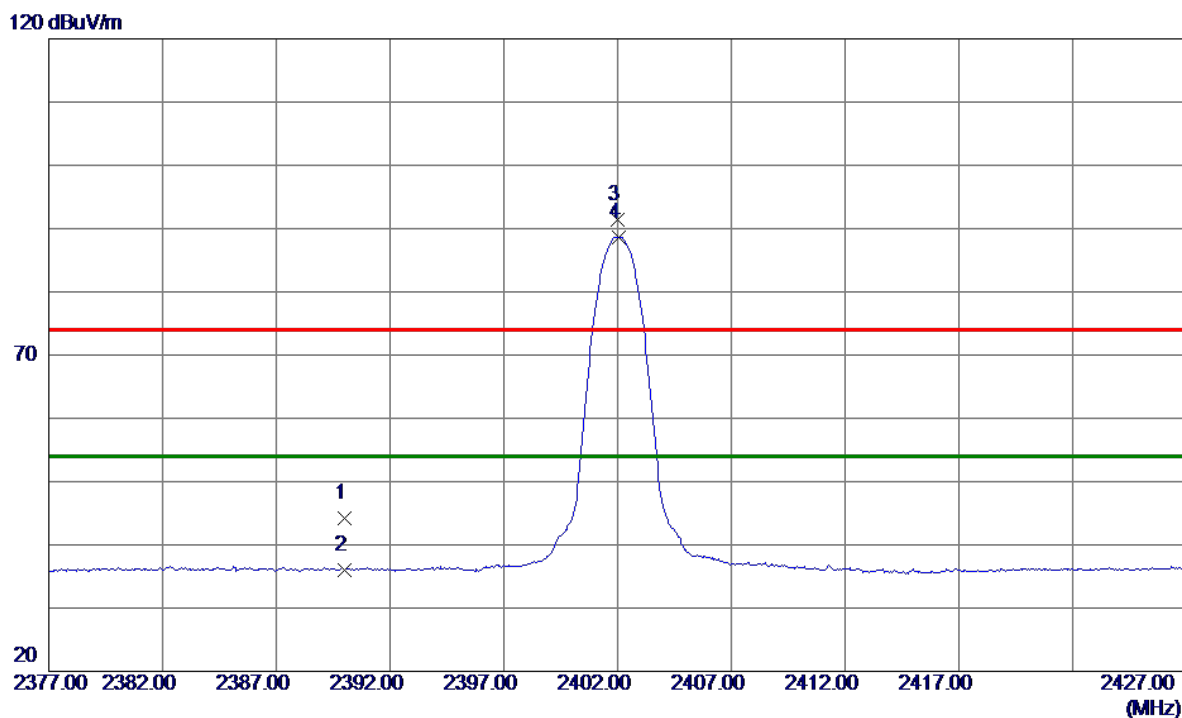
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4958.6200	34.62	7.14	41.76	74.00	-32.24	Peak	
2 *	4962.2000	23.77	7.15	30.92	54.00	-23.08	AVG	

Test Mode : TX 2402MHz _CH00_3Mbps

Vertical

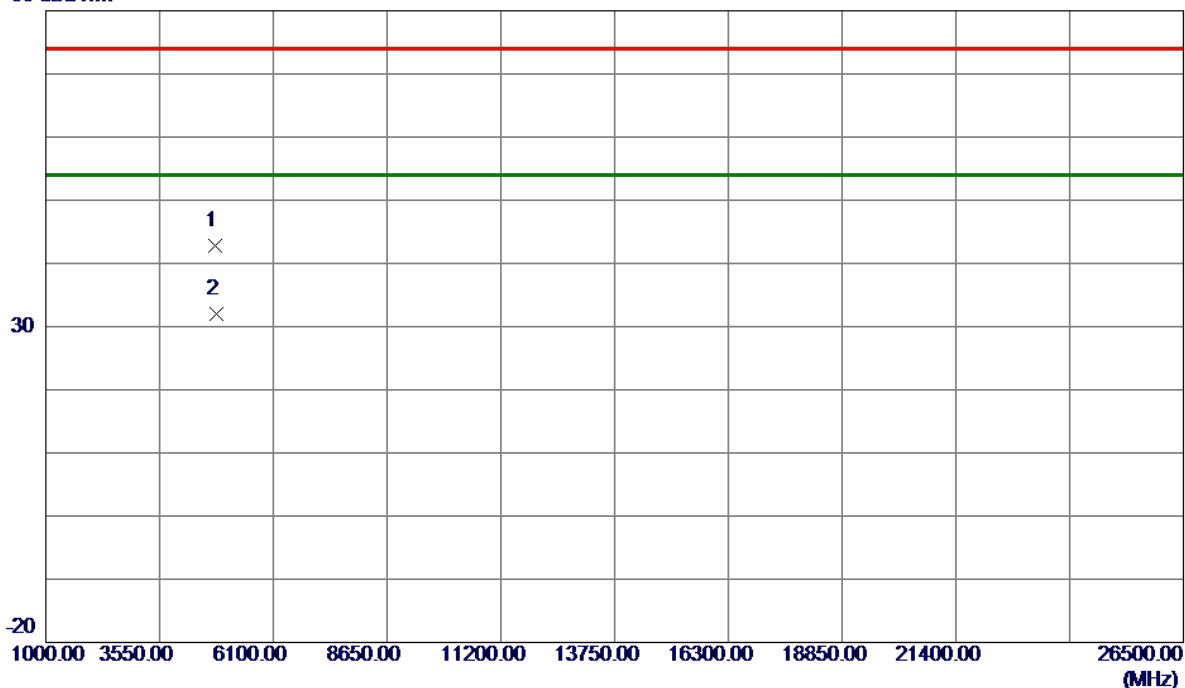


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.01	9.14	44.15	74.00	-29.85	Peak	
2	2390.0000	26.84	9.14	35.98	54.00	-18.02	AVG	
3	2402.0000	82.31	9.18	91.49	74.00	17.49	Peak	No Limit
4 *	2402.0500	79.51	9.18	88.69	54.00	34.69	AVG	No Limit

Test Mode :	TX 2402MHz _CH00_ 3Mbps
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Vertical

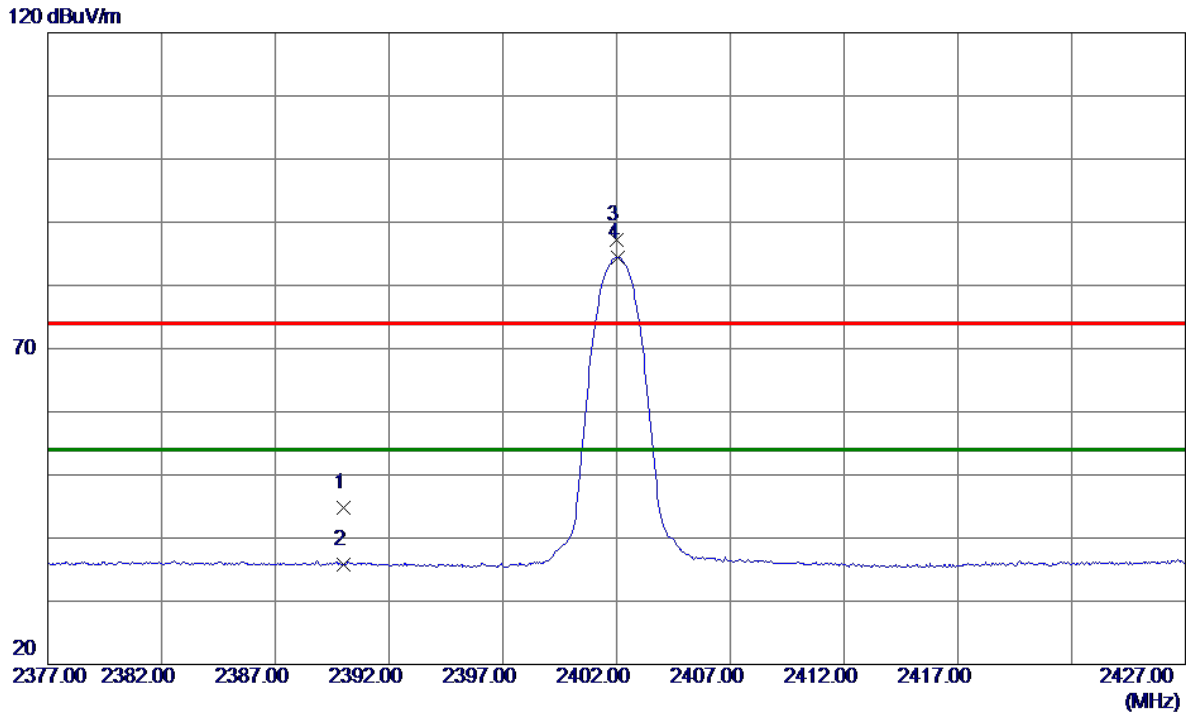
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4799.6600	36.30	6.57	42.87	74.00	-31.13	Peak	
2 *	4813.1000	25.29	6.62	31.91	54.00	-22.09	AVG	

Test Mode : TX 2402MHz _CH00_ 3Mbps

Horizontal

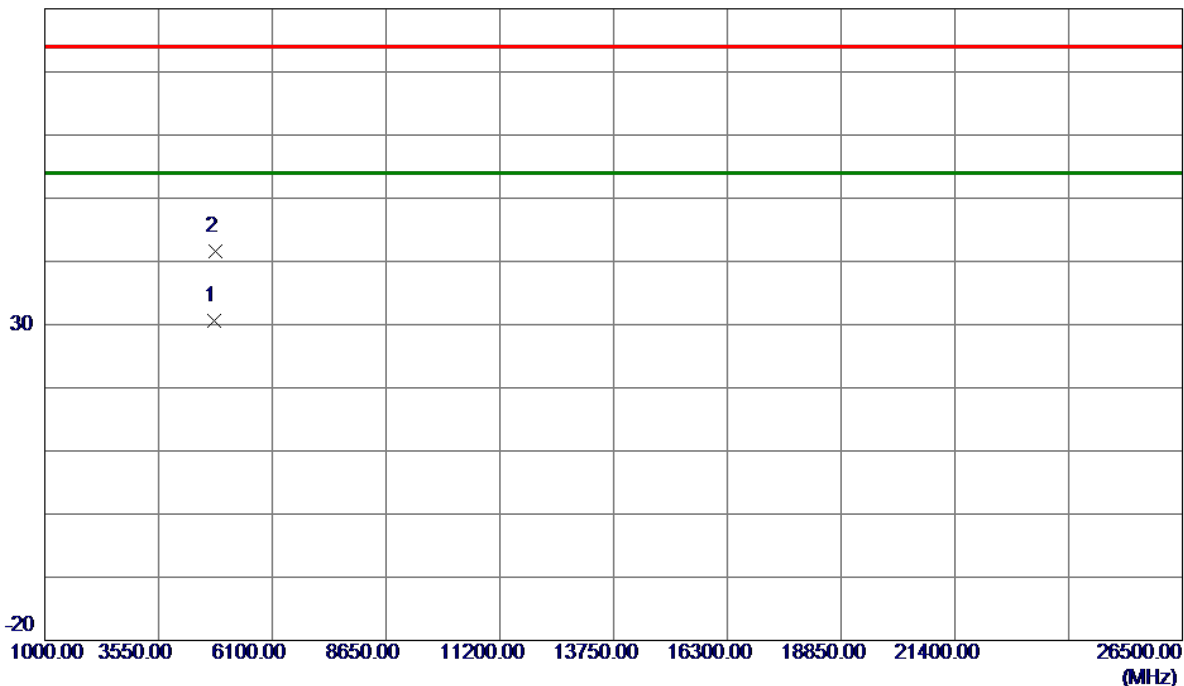


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.71	9.14	44.85	74.00	-29.15	Peak	
2	2390.0000	26.59	9.14	35.73	54.00	-18.27	AVG	
3	2402.0000	78.04	9.18	87.22	74.00	13.22	Peak	No Limit
4 *	2402.0500	75.23	9.18	84.41	54.00	30.41	AVG	No Limit

Test Mode :	TX 2402MHz _CH00_ 3Mbps
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Horizontal

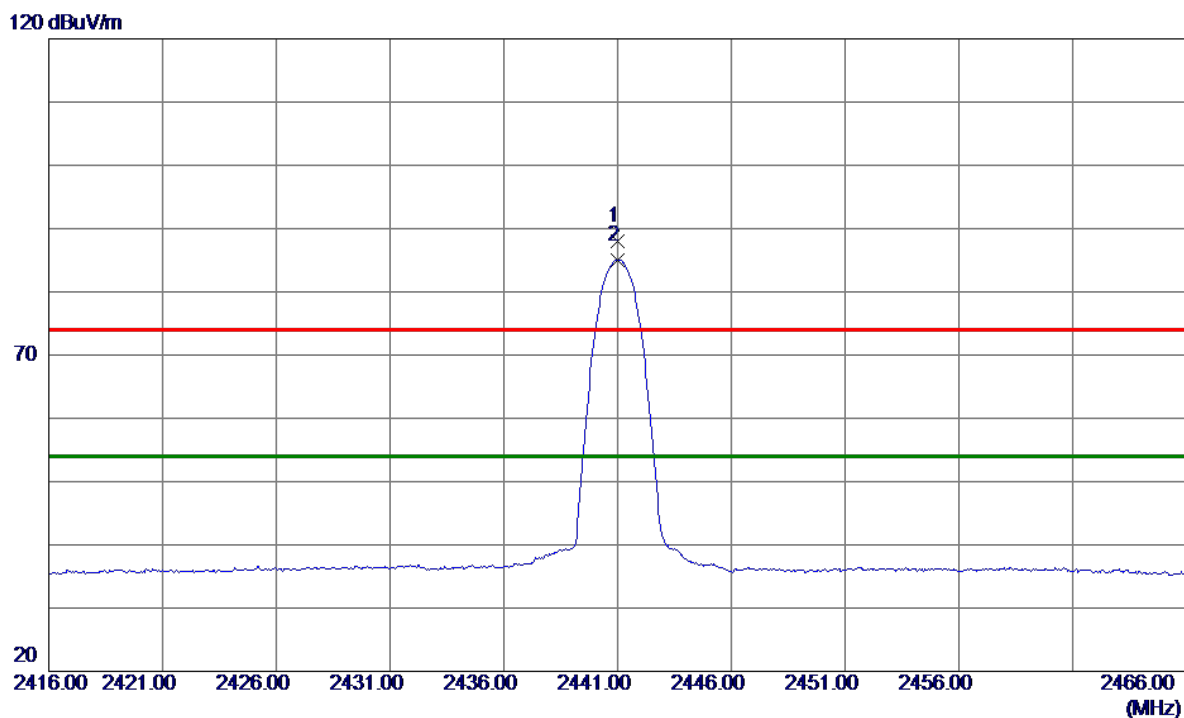
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4801.0400	23.93	6.58	30.51	54.00	-23.49	AVG	
2	4810.9000	34.93	6.61	41.54	74.00	-32.46	Peak	

Test Mode : TX 2441MHz _CH39_3Mbps

Vertical

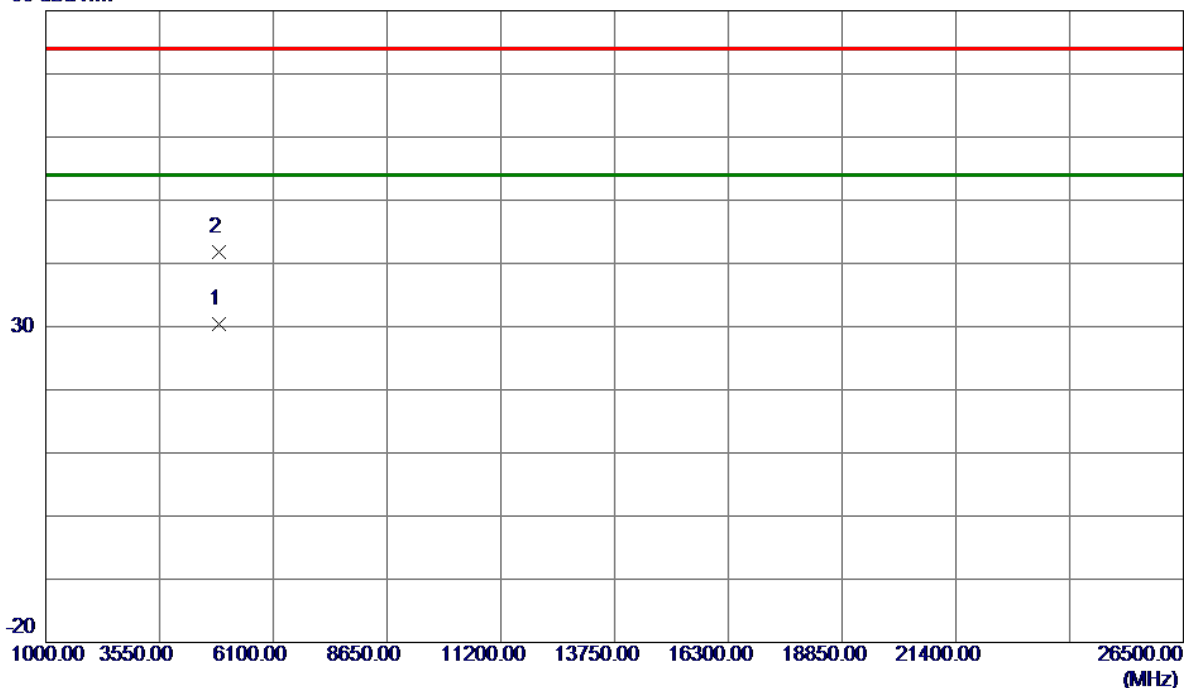


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2441.0000	78.59	9.33	87.92	74.00	13.92	Peak	No Limit
2 *	2441.0000	75.70	9.33	85.03	54.00	31.03	AVG	No Limit

Test Mode :	TX 2441MHz _CH39_ 3Mbps
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Vertical

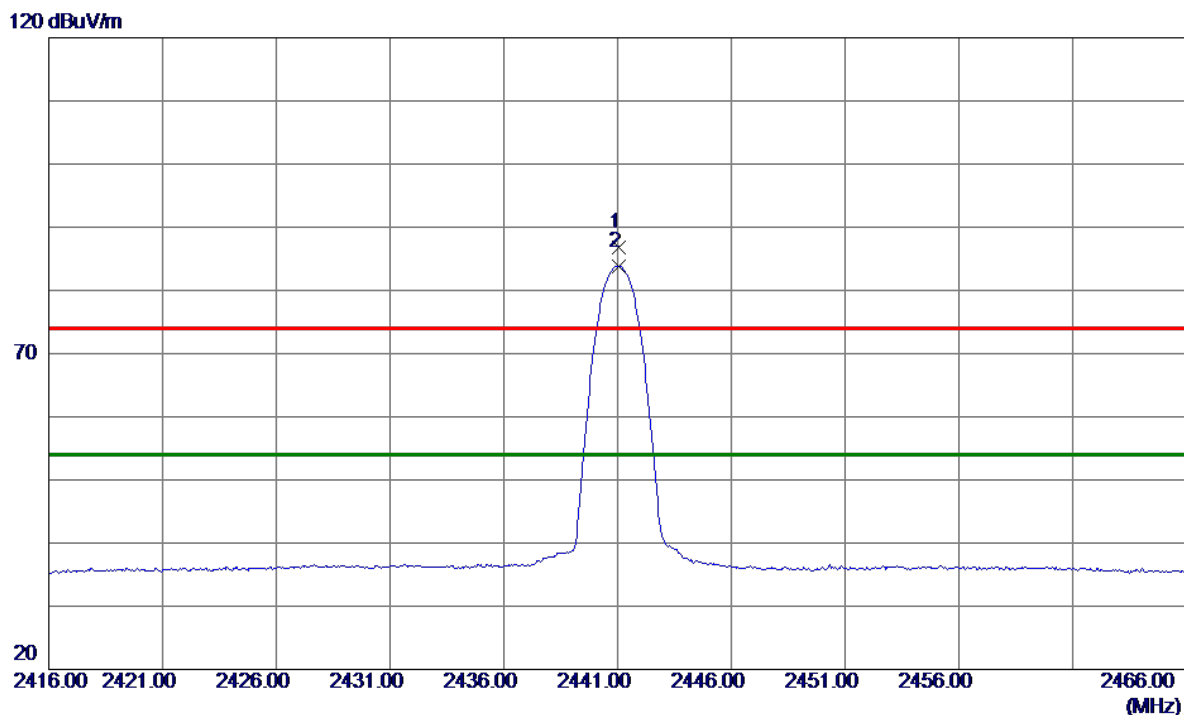
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4879.1600	23.48	6.86	30.34	54.00	-23.66	AVG	
2	4886.9400	34.95	6.88	41.83	74.00	-32.17	Peak	

Test Mode :	TX 2441MHz _CH39_ 3Mbps
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Horizontal

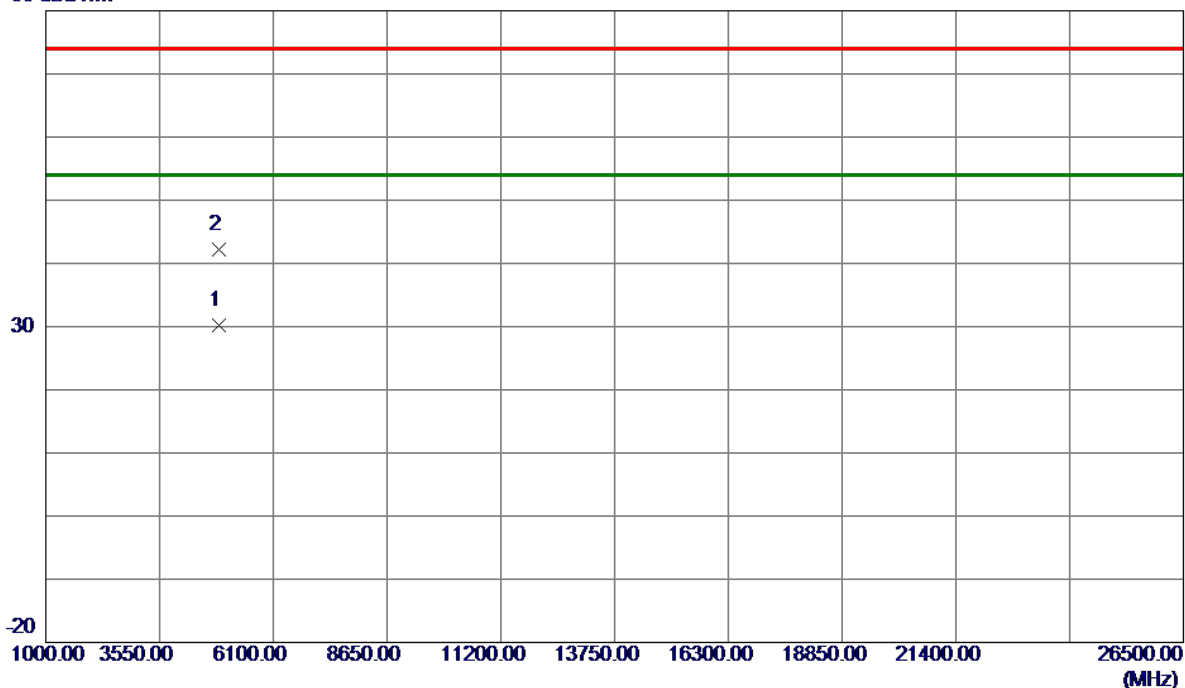


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2441.0500	77.39	9.33	86.72	74.00	12.72	Peak	No Limit
2 *	2441.0500	74.52	9.33	83.85	54.00	29.85	AVG	No Limit

Test Mode :	TX 2441MHz _CH39_ 3Mbps
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Horizontal

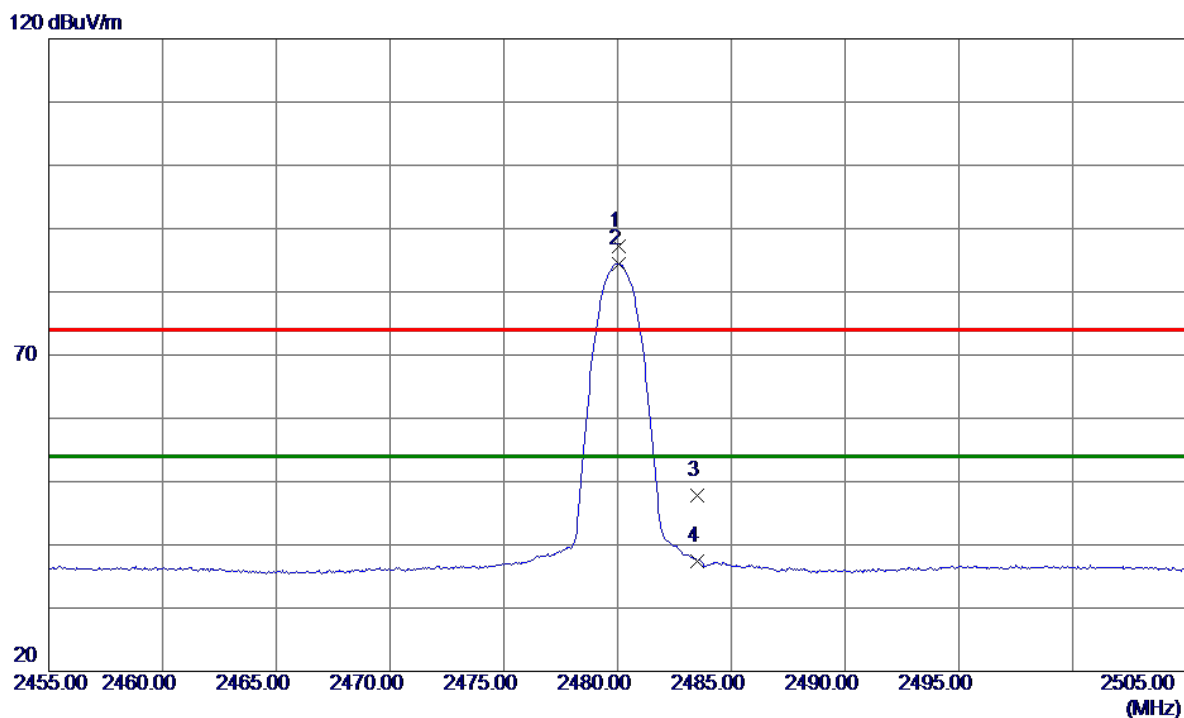
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4881.0200	23.35	6.86	30.21	54.00	-23.79	AVG	
2	4889.3600	35.39	6.89	42.28	74.00	-31.72	Peak	

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical

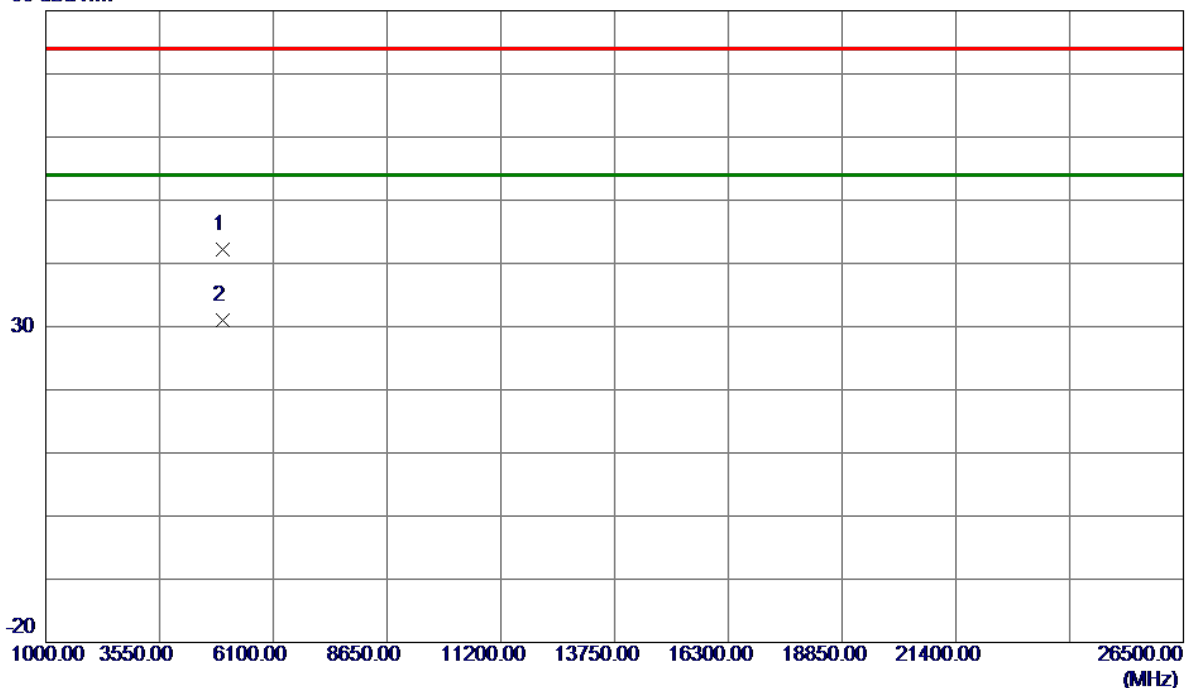


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0500	77.73	9.47	87.20	74.00	13.20	Peak	No Limit
2 *	2480.0500	74.93	9.47	84.40	54.00	30.40	AVG	No Limit
3	2483.5000	38.37	9.48	47.85	74.00	-26.15	Peak	
4	2483.5000	27.90	9.48	37.38	54.00	-16.62	AVG	

Test Mode :	TX 2480MHz _CH78_ 3Mbps
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Vertical

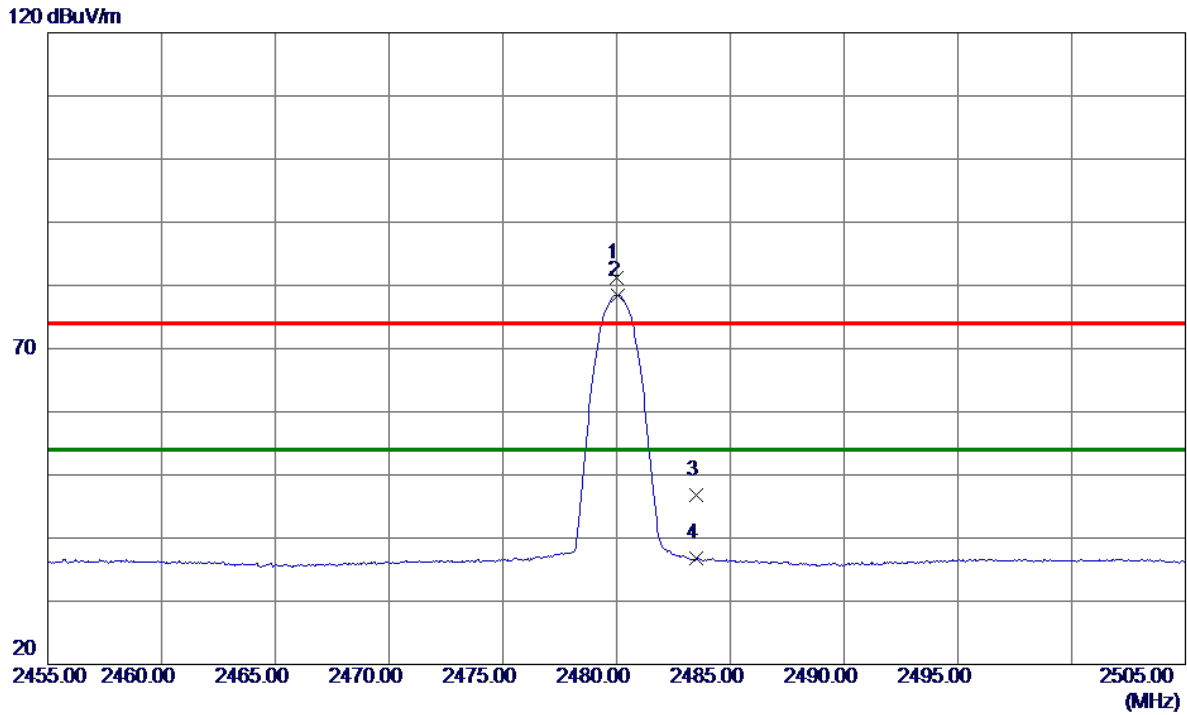
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4960.5600	35.01	7.15	42.16	74.00	-31.84	Peak	
2 *	4961.0400	23.83	7.15	30.98	54.00	-23.02	AVG	

Test Mode : TX 2480MHz _CH78_ 3Mbps

Horizontal

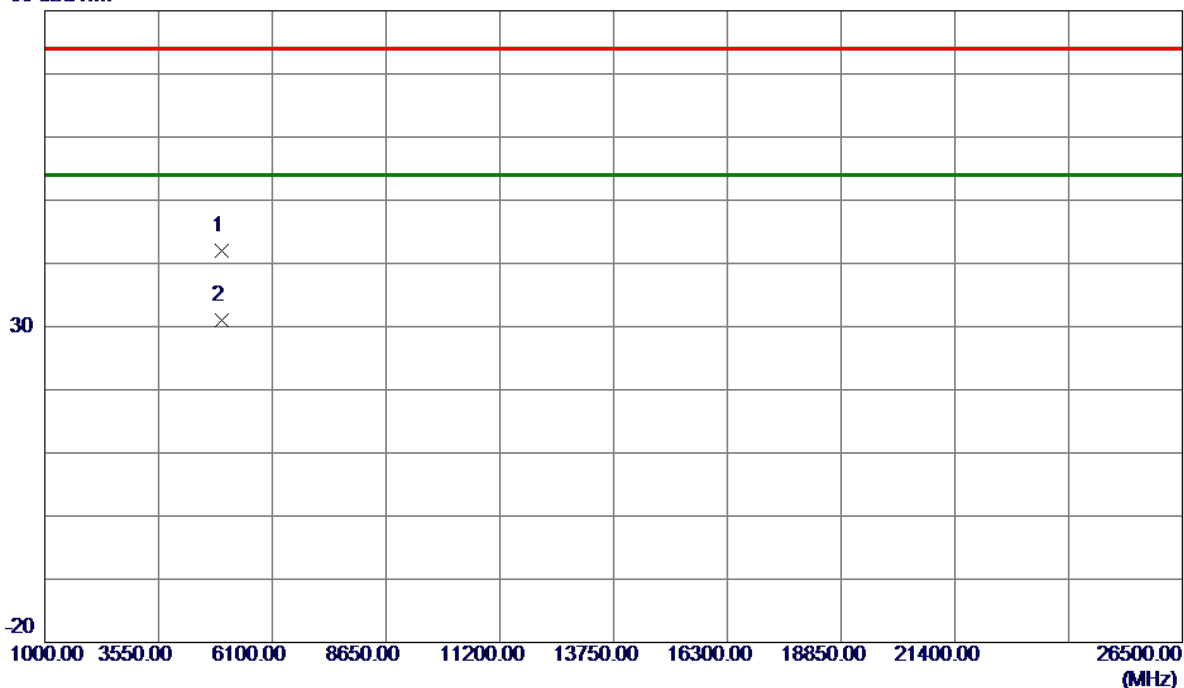


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	71.81	9.47	81.28	74.00	7.28	Peak	No Limit
2 *	2480.0500	68.93	9.47	78.40	54.00	24.40	AVG	No Limit
3	2483.5000	37.28	9.48	46.76	74.00	-27.24	Peak	
4	2483.5000	27.26	9.48	36.74	54.00	-17.26	AVG	

Test Mode :	TX 2480MHz _CH78_ 3Mbps
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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	4958.0200	34.85	7.14	41.99	74.00	-32.01	Peak	
2 *	4961.5600	23.87	7.15	31.02	54.00	-22.98	AVG	

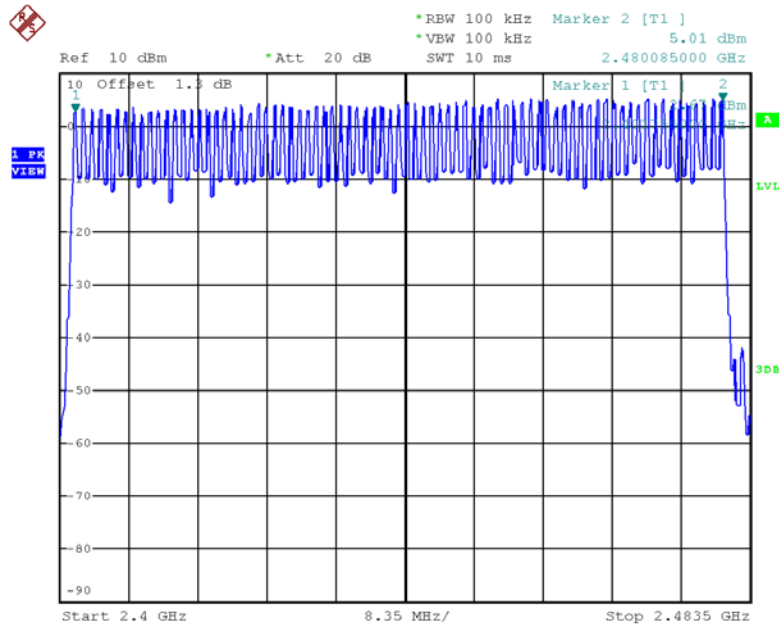
APPENDIX E - NUMBER OF HOPPING CHANNEL

Test Mode

Hopping Mode_1Mbps

Number of Hopping Channel

79



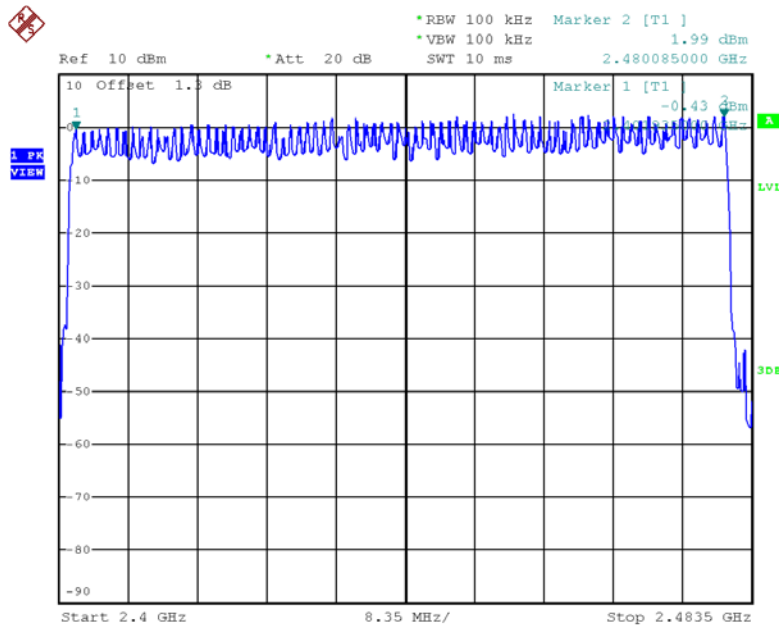
Date: 16.MAR.2018 11:44:17

Test Mode

Hopping Mode_3Mbps

Number of Hopping Channel

79



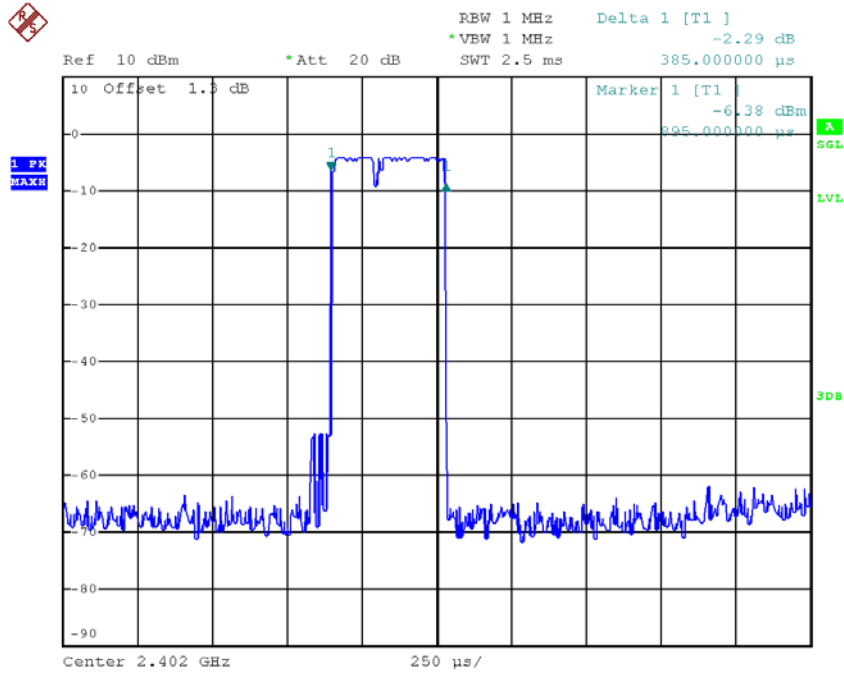
Date: 16.MAR.2018 12:05:31

APPENDIX F - AVERAGE TIME OF OCCUPANCY

Test Mode :	TX Mode_1Mbps
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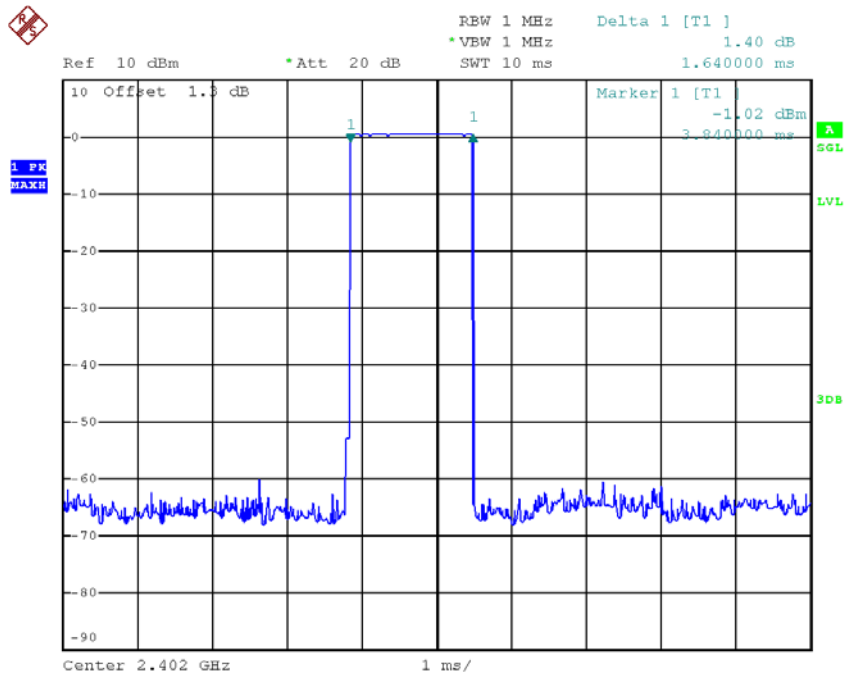
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3850	0.1232	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3800	0.1216	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6600	0.2656	0.4000	Pass
DH1	2480	0.3800	0.1216	0.4000	Pass

CH00-DH1



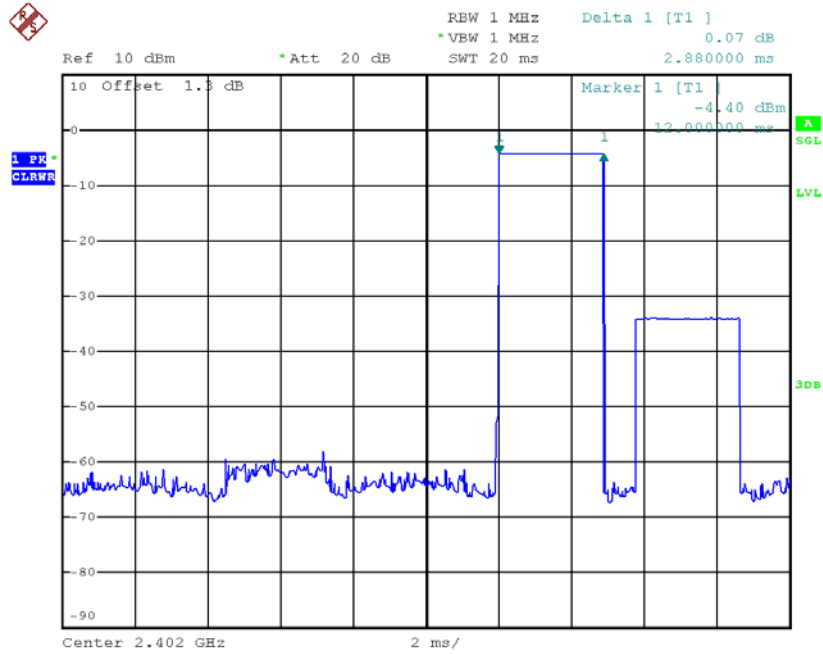
Date: 16.MAR.2018 11:45:38

CH00-DH3



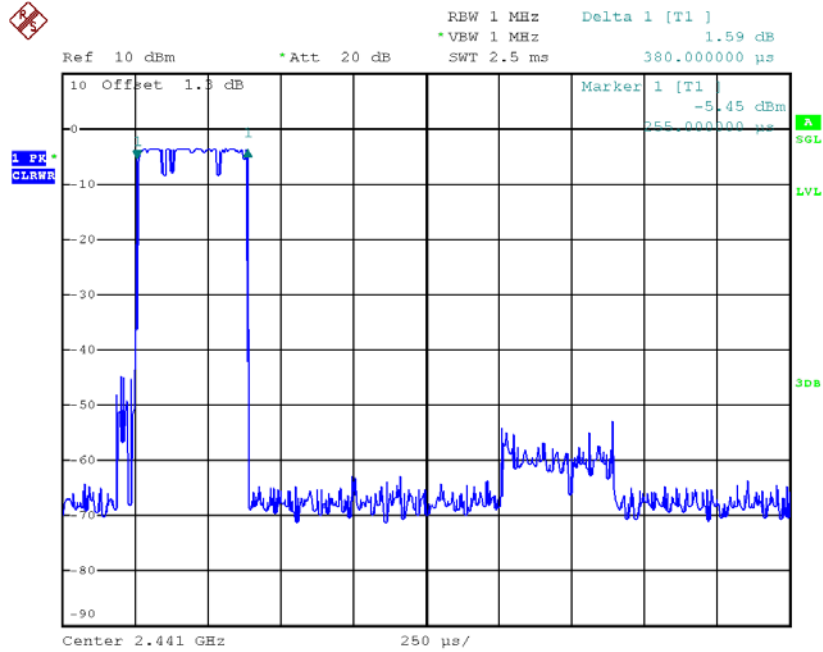
Date: 16.MAR.2018 11:49:15

CH00-DH5



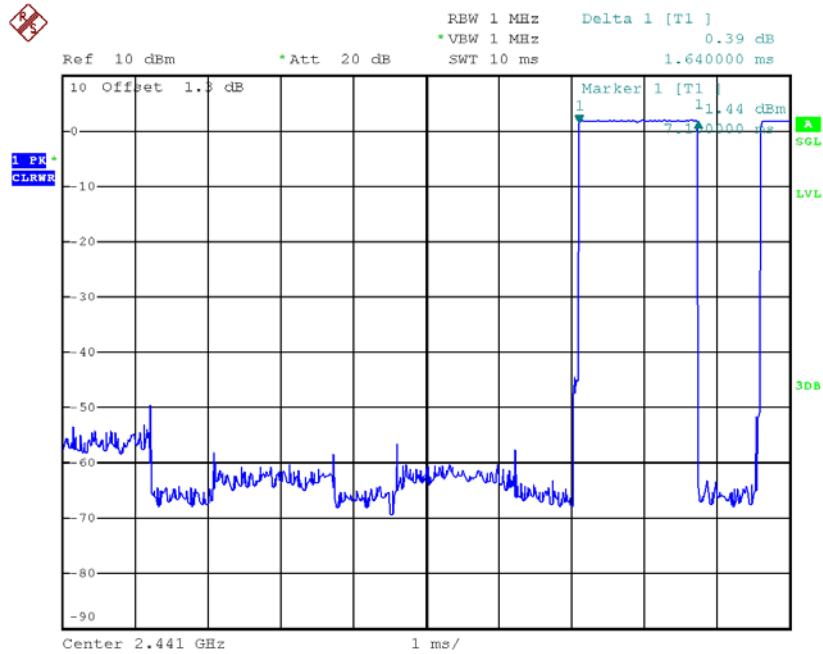
Date: 16.MAR.2018 11:49:56

CH39-DH1



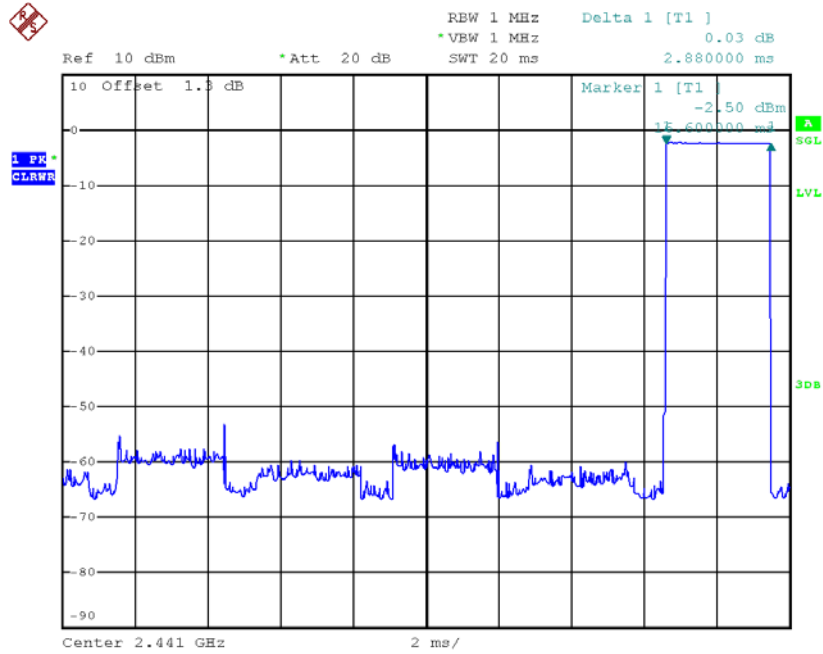
Date: 16.MAR.2018 11:46:00

CH39-DH3



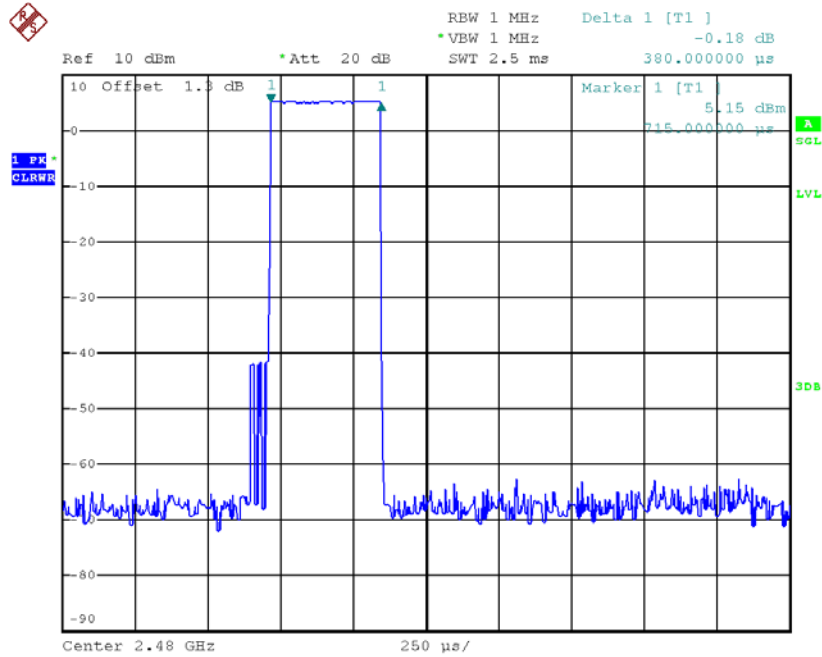
Date: 16.MAR.2018 11:49:36

CH39-DH5



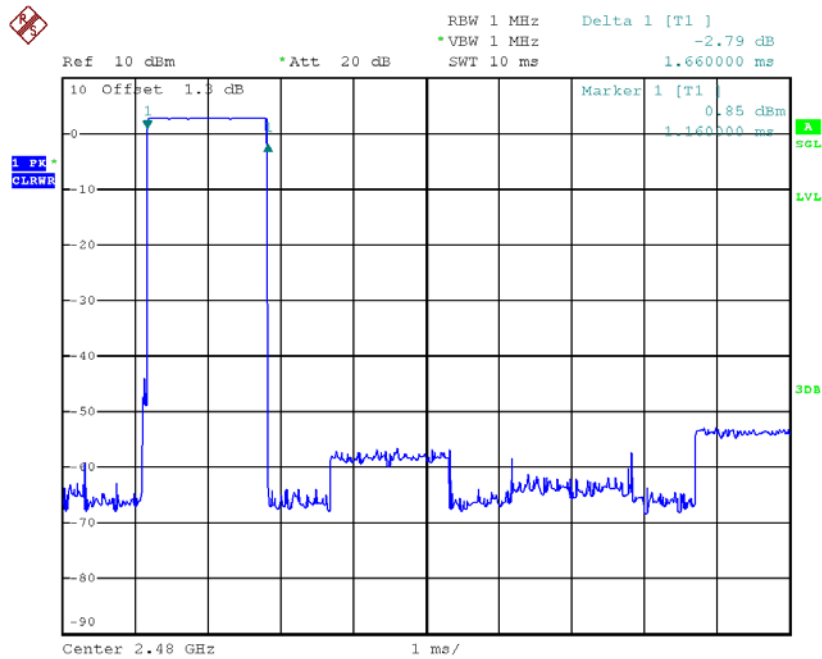
Date: 16.MAR.2018 11:50:01

CH78-DH1



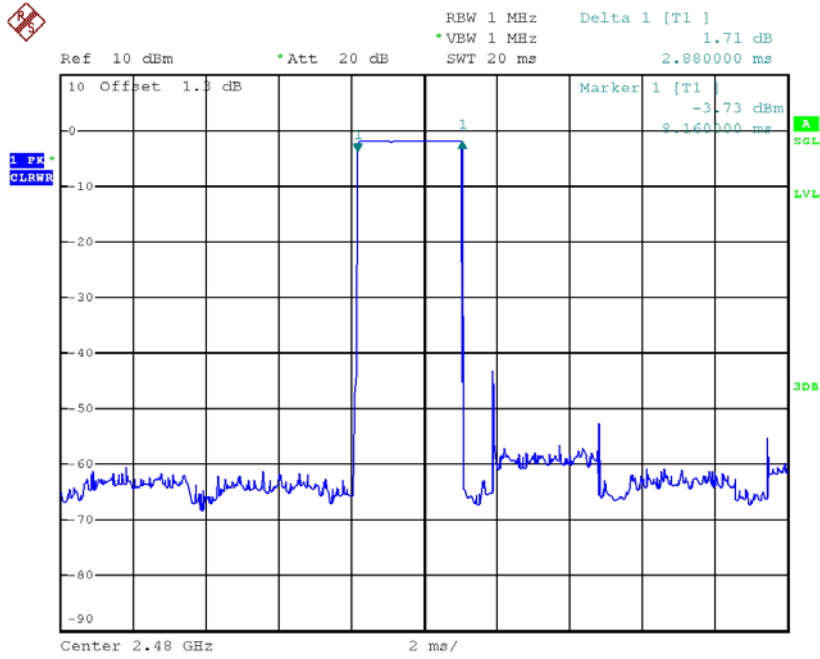
Date: 16.MAR.2018 11:46:20

CH78-DH3



Date: 16.MAR.2018 11:49:40

CH78-DH5

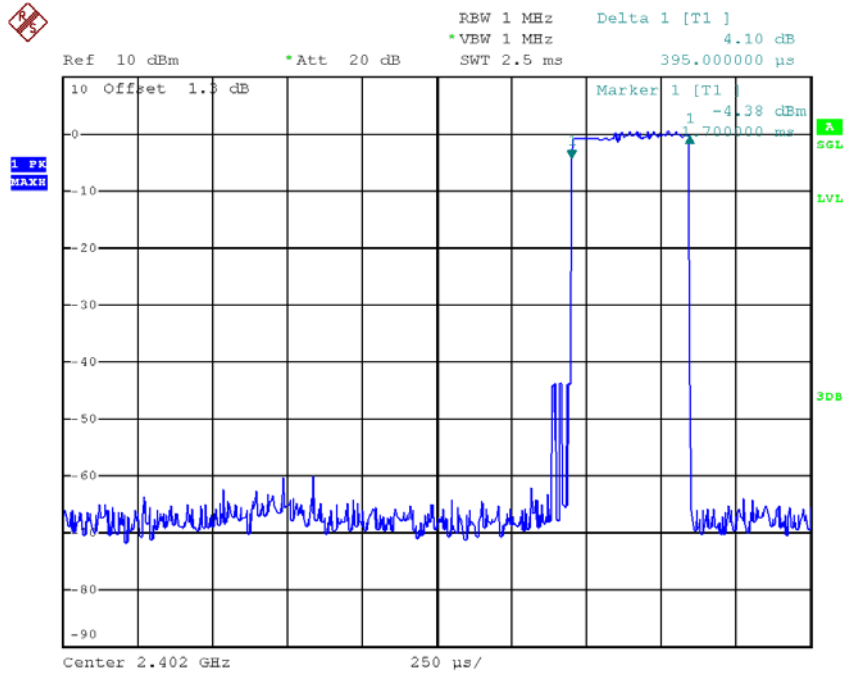


Date: 16.MAR.2018 11:50:04

Test Mode :	TX Mode_3Mbps
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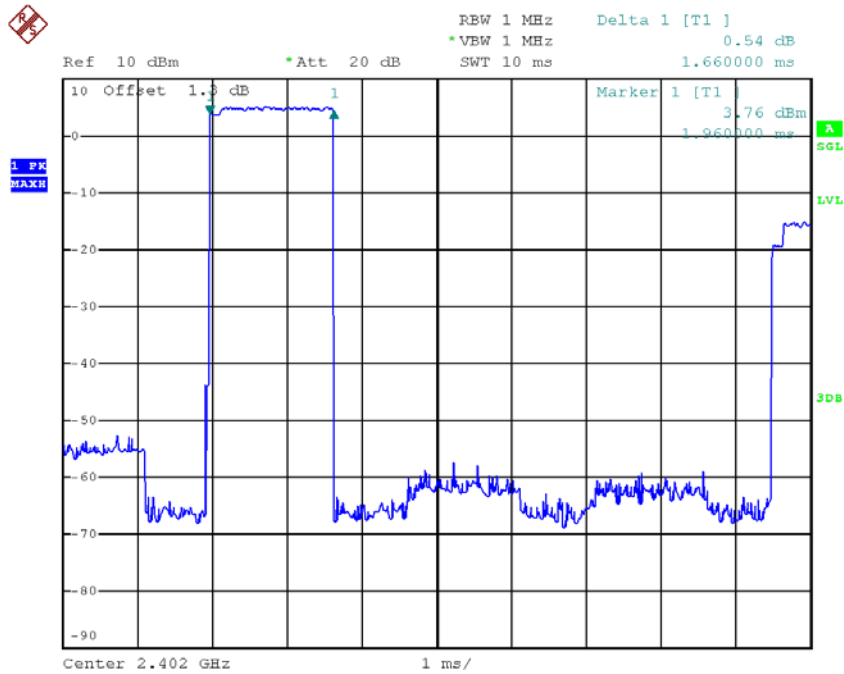
Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.9200	0.3115	0.4000	Pass
DH3	2402	1.6600	0.2656	0.4000	Pass
DH1	2402	0.3950	0.1264	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6600	0.2656	0.4000	Pass
DH1	2441	0.3900	0.1248	0.4000	Pass
DH5	2480	2.9200	0.3115	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH1	2480	0.3900	0.1248	0.4000	Pass

CH00-DH1



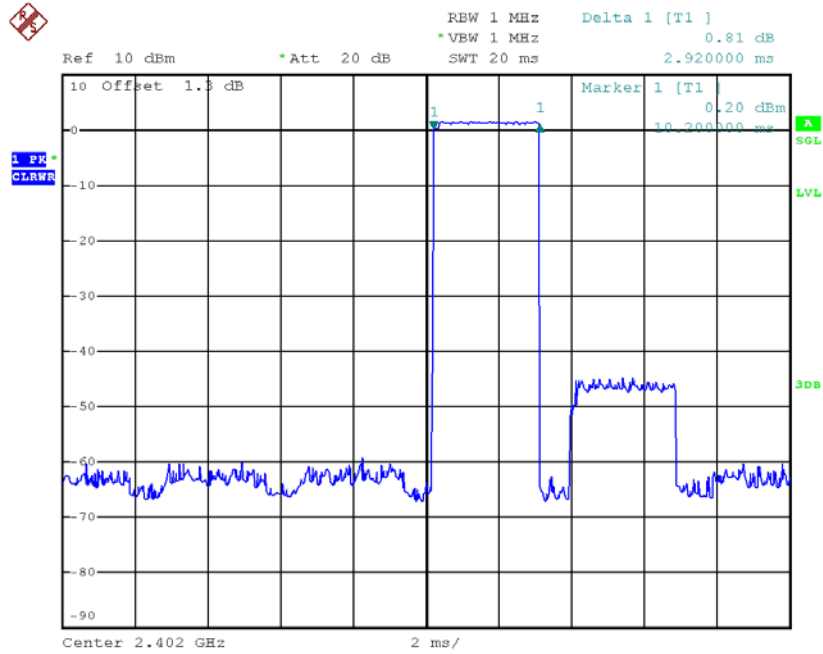
Date: 16.MAR.2018 12:00:08

CH00-DH3



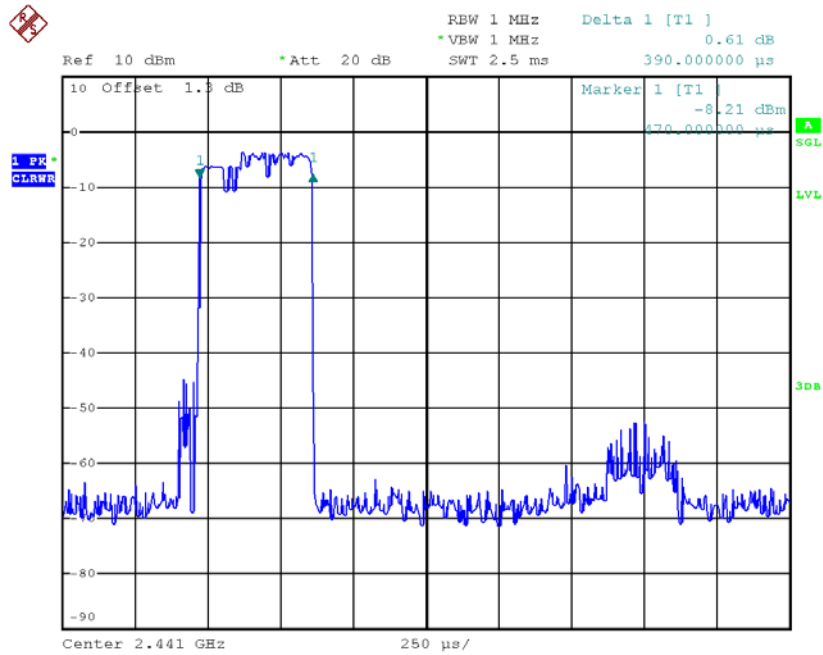
Date: 16.MAR.2018 13:34:59

CH00-DH5



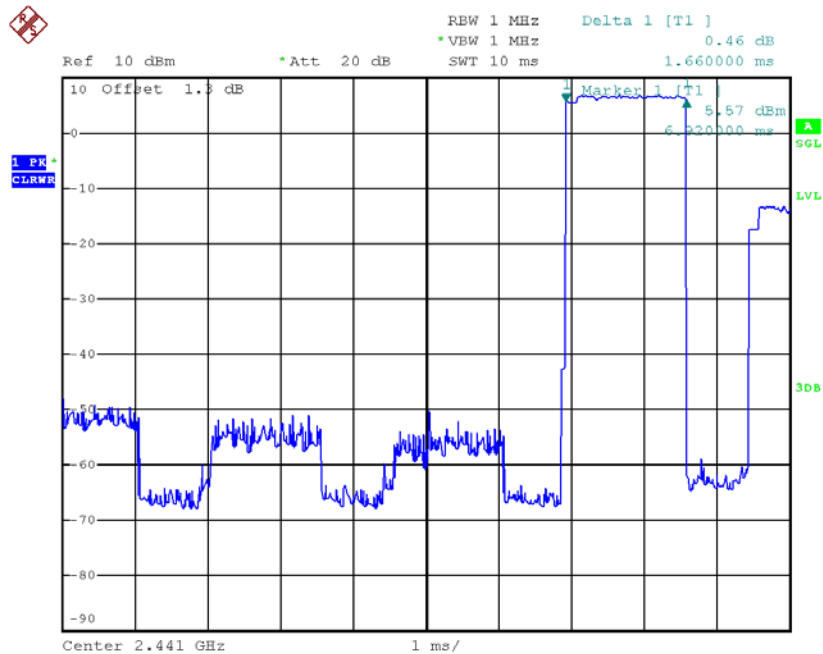
Date: 16.MAR.2018 13:36:18

CH39-DH1



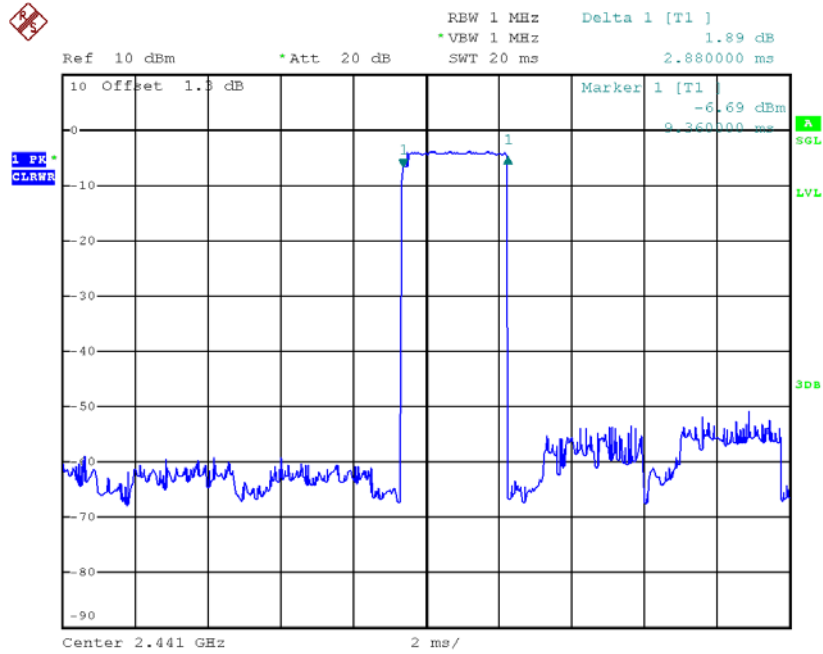
Date: 16.MAR.2018 12:00:29

CH39-DH3



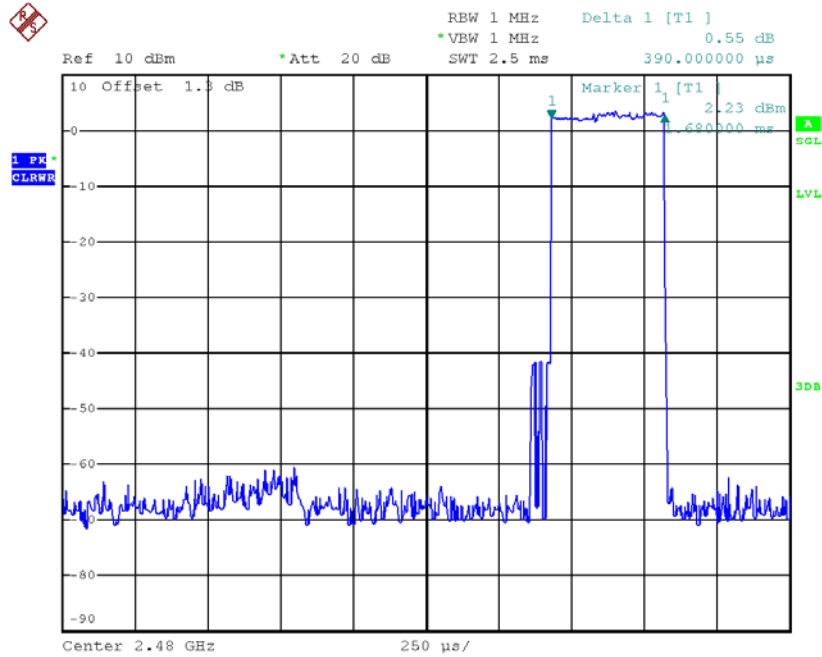
Date: 16.MAR.2018 13:35:20

CH39-DH5



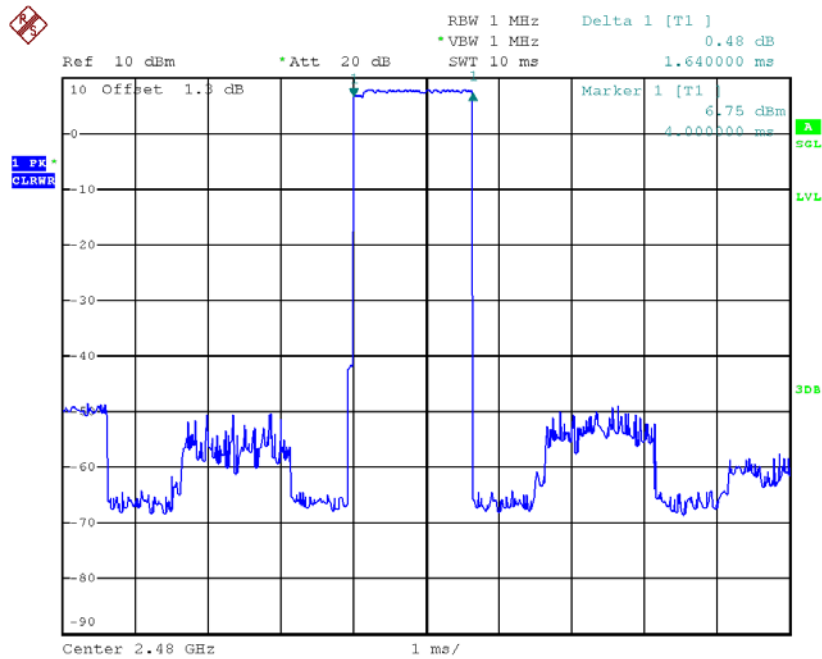
Date: 16.MAR.2018 13:36:21

CH78-DH1



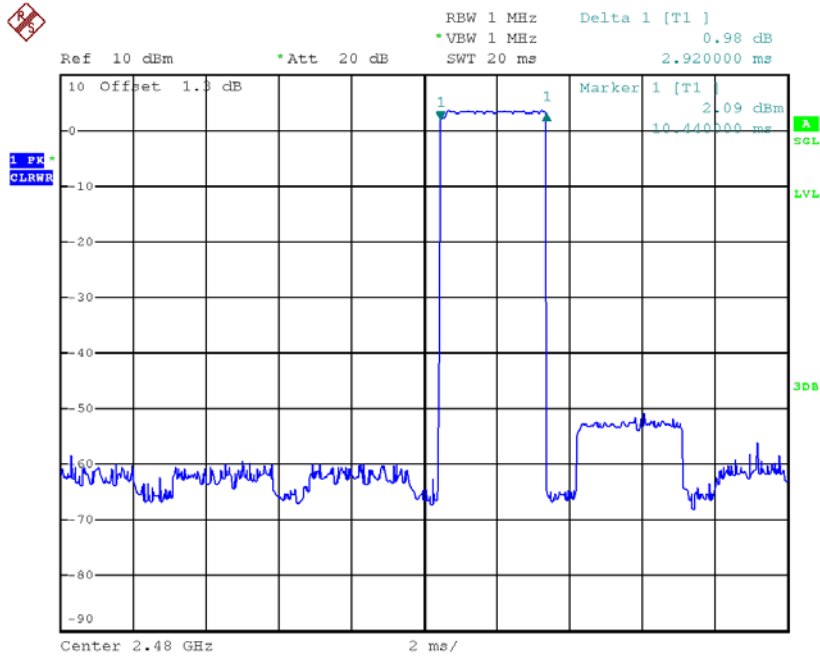
Date: 16.MAR.2018 12:00:32

CH78-DH3



Date: 16.MAR.2018 13:35:25

CH78-DH5

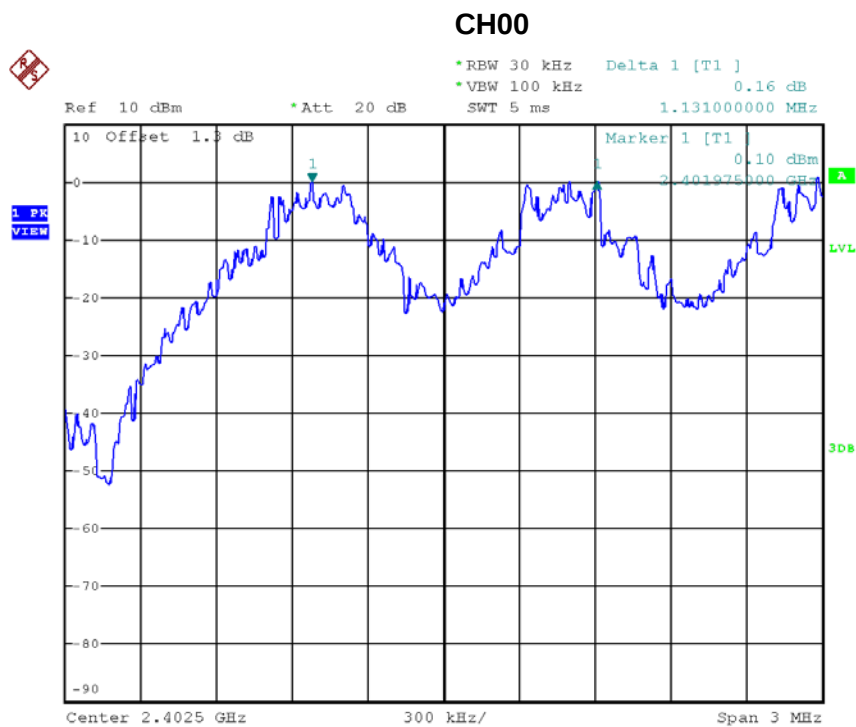


Date: 16.MAR.2018 13:36:24

APPENDIX G - HOPPING CHANNEL SEPARATION MEASUREMENT

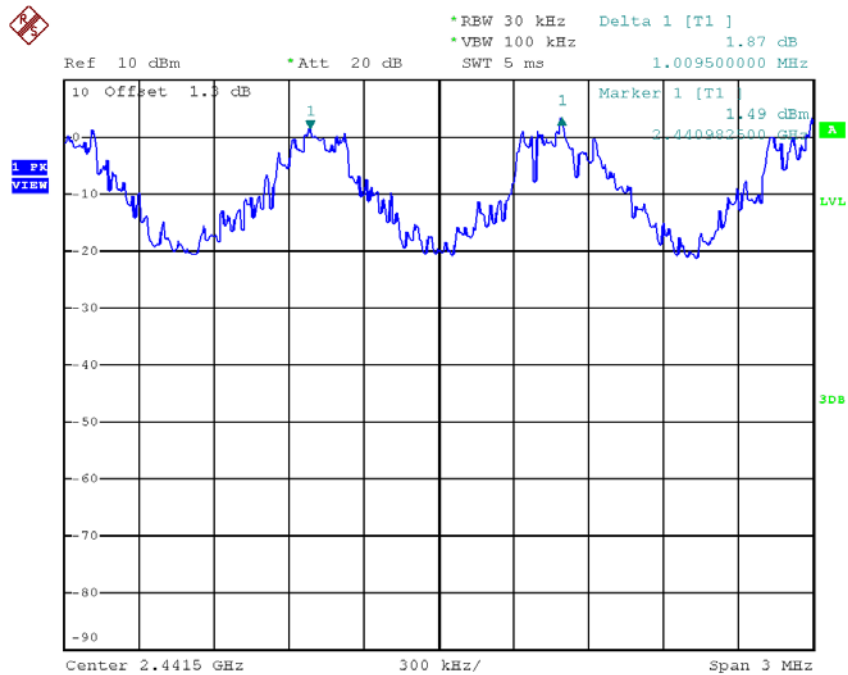
Test Mode :	Hopping on _1Mbps
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Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.131	0.579	Pass
2441	1.010	0.573	Pass
2480	1.112	0.588	Pass



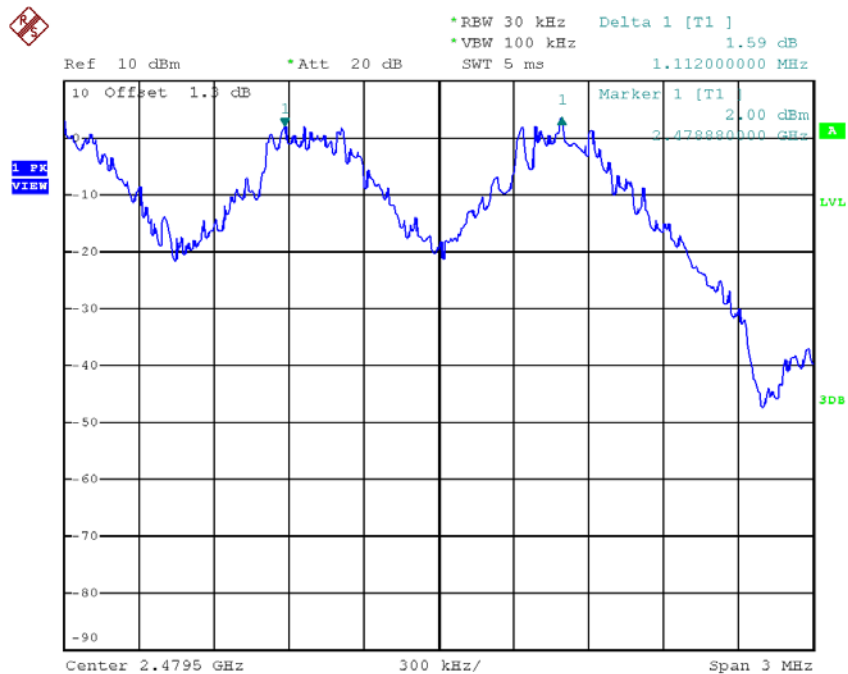
Date: 16.MAR.2018 11:40:15

CH39



Date: 16.MAR.2018 11:41:22

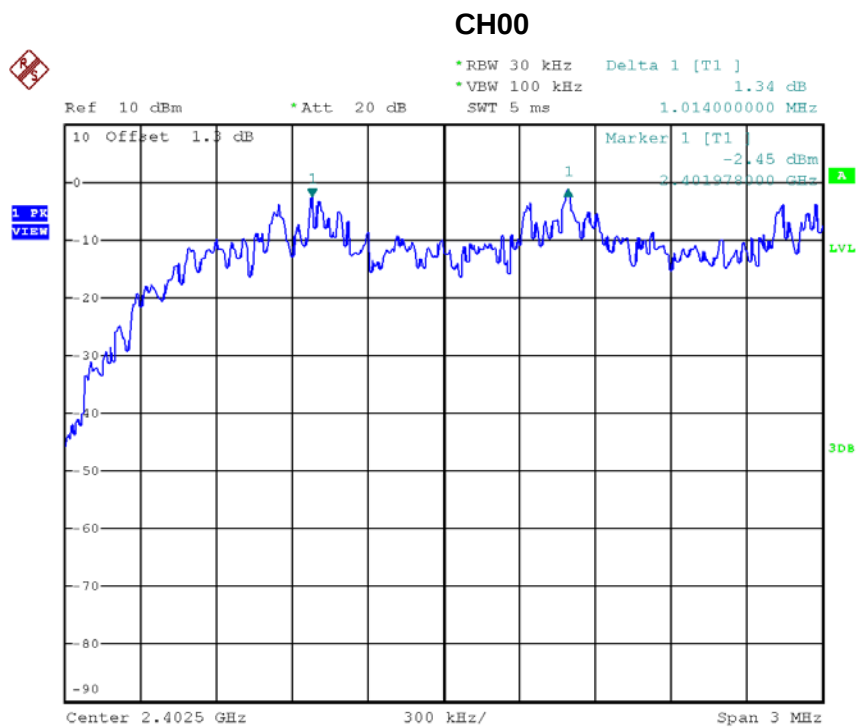
CH78



Date: 16.MAR.2018 11:42:29

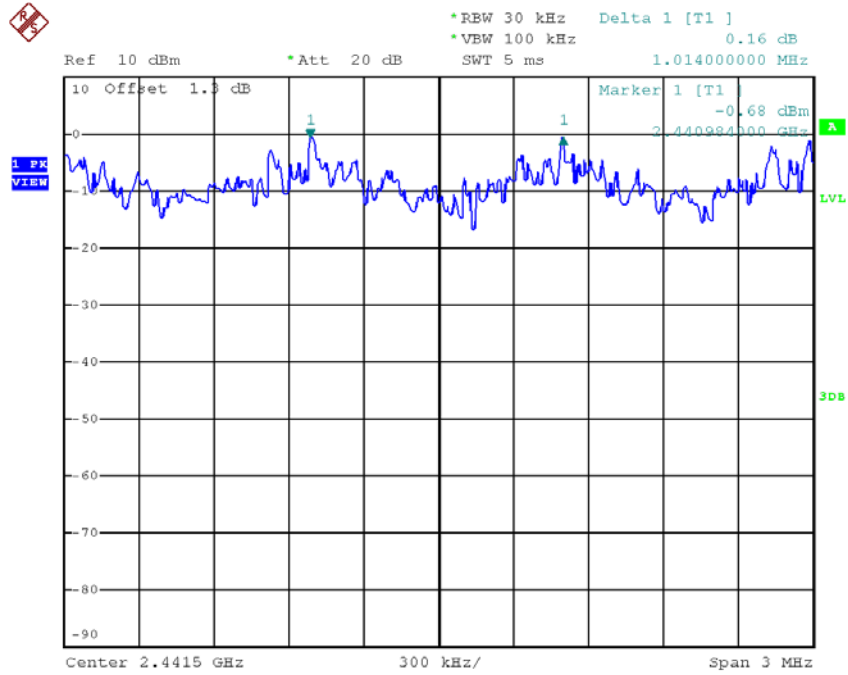
Test Mode :	Hopping on _3Mbps
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Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.014	0.952	Pass
2441	1.014	0.947	Pass
2480	0.990	0.937	Pass



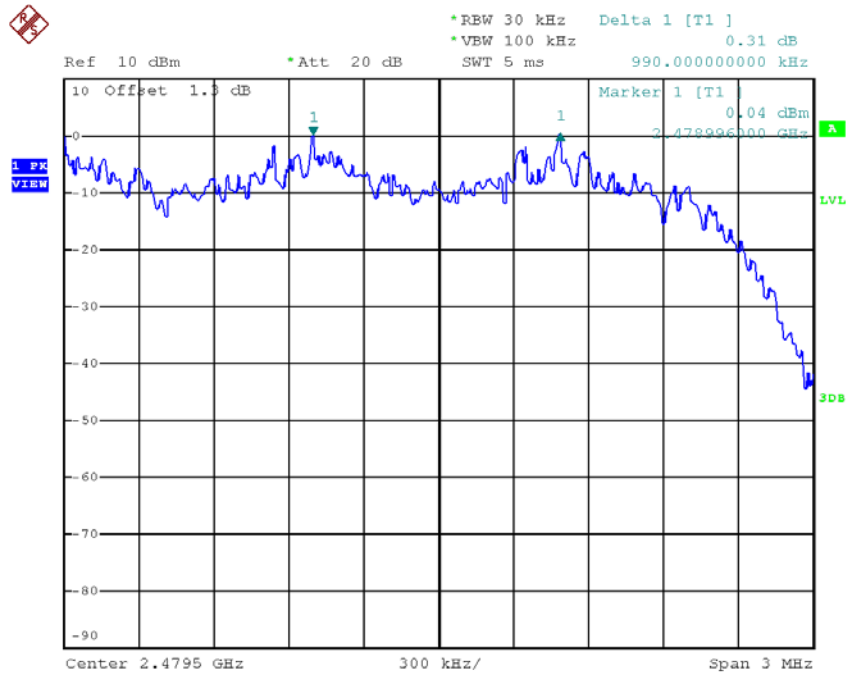
Date: 16.MAR.2018 12:01:37

CH39



Date: 16.MAR.2018 12:02:40

CH78

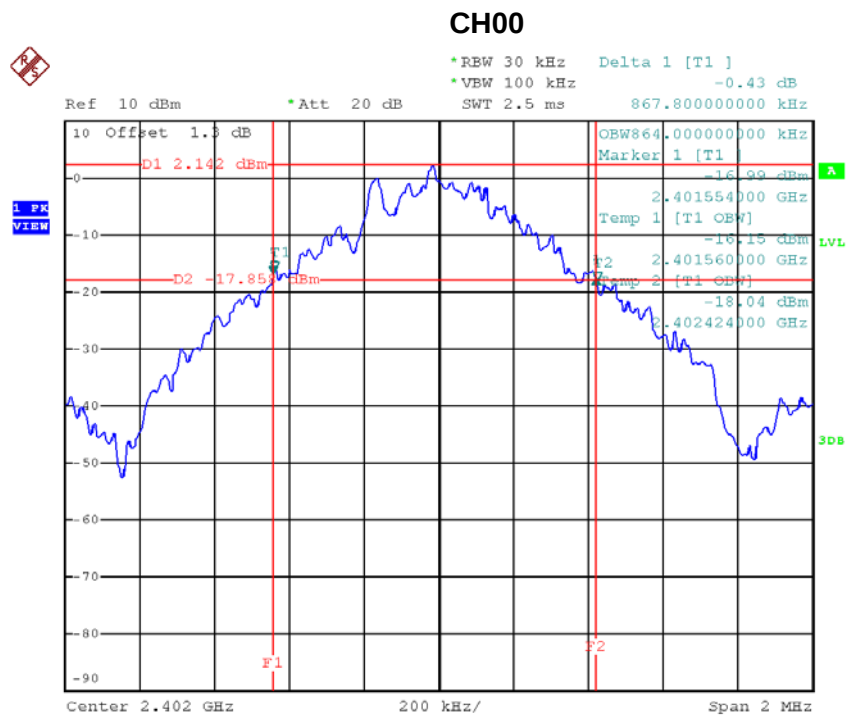


Date: 16.MAR.2018 12:03:44

APPENDIX H - BANDWIDTH

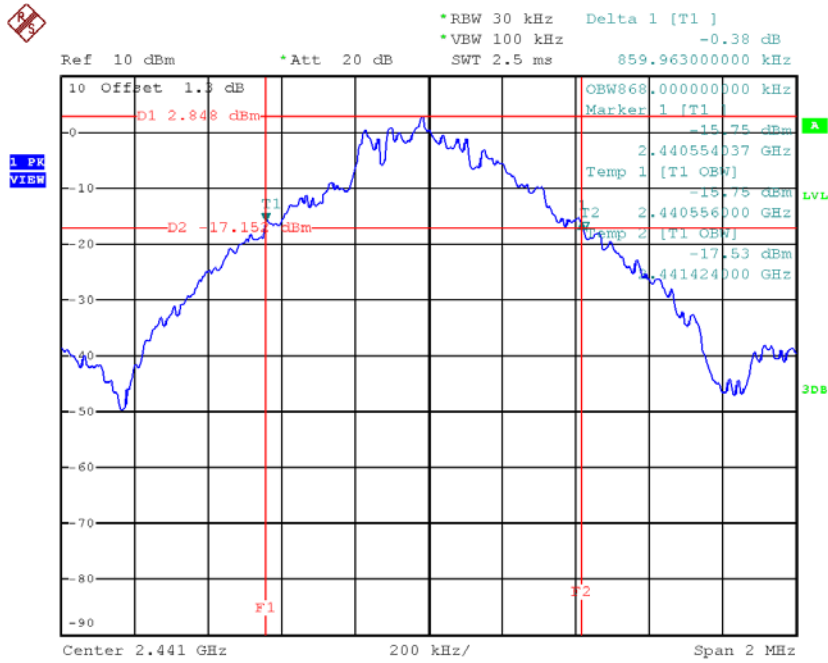
Test Mode : TX Mode _1Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.868	0.864	Pass
2441	0.860	0.868	Pass
2480	0.882	0.892	Pass



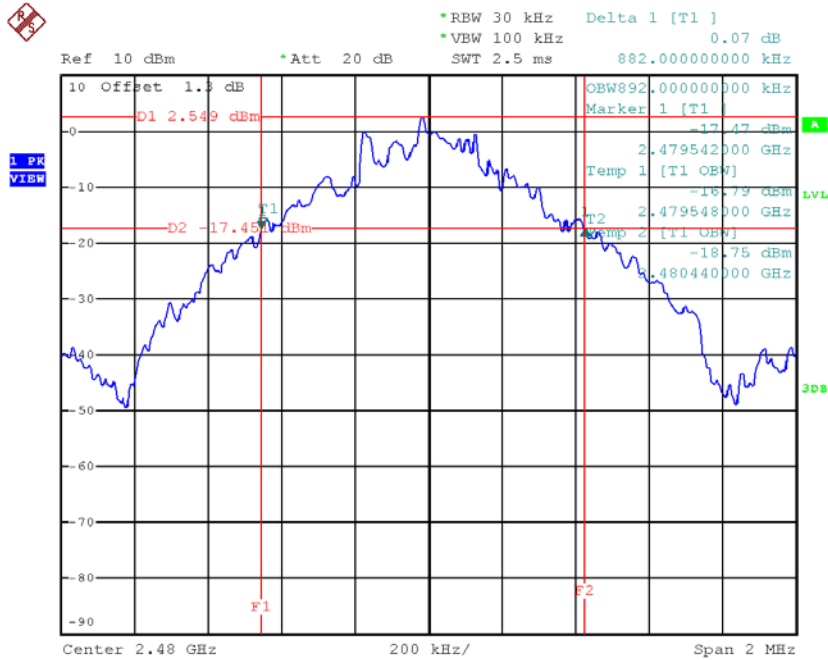
Date: 16.MAR.2018 11:32:39

CH39



Date: 16.MAR.2018 11:35:14

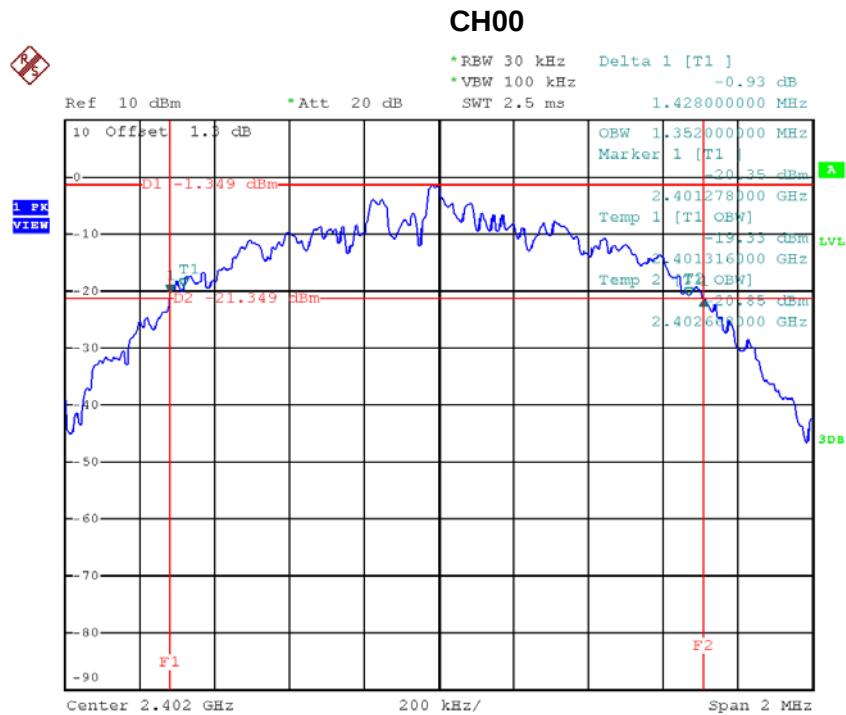
CH78



Date: 16.MAR.2018 11:37:10

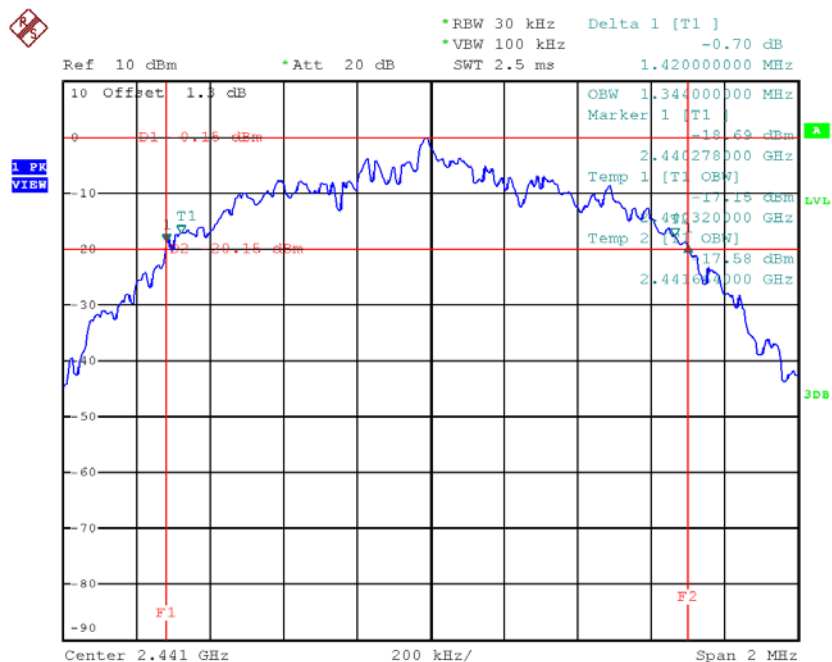
Test Mode :	TX Mode _3Mbps
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Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.428	1.352	Pass
2441	1.420	1.344	Pass
2480	1.406	1.344	Pass



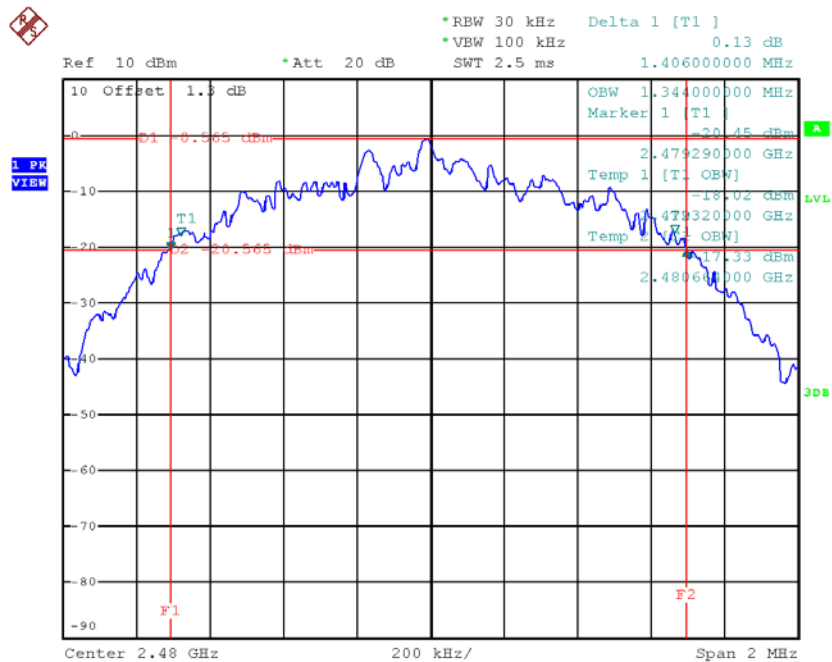
Date: 16.MAR.2018 11:56:40

CH39



Date: 16.MAR.2018 11:58:24

CH78

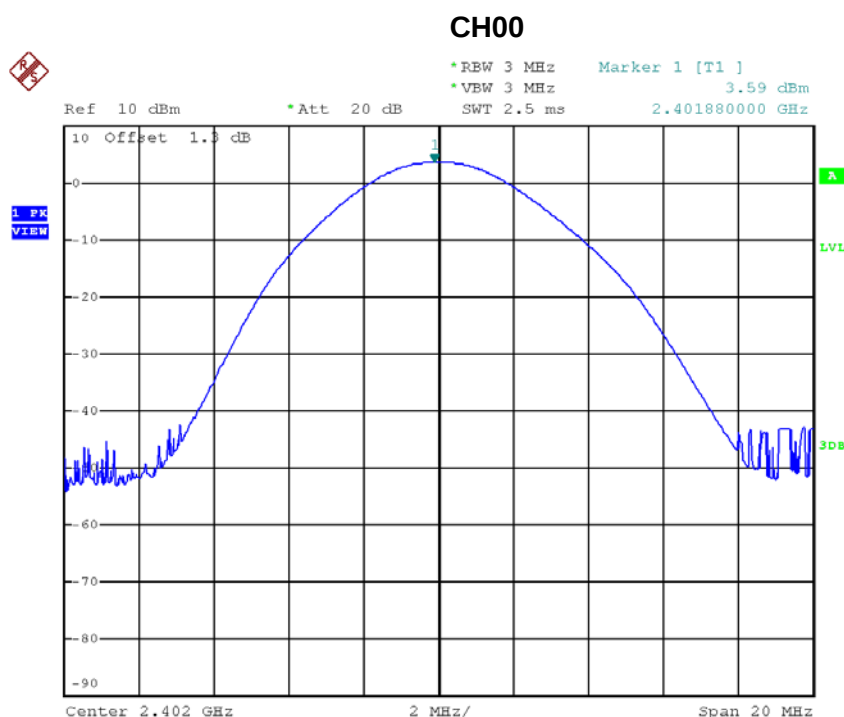


Date: 16.MAR.2018 11:59:21

APPENDIX I - PEAK OUTPUT POWER

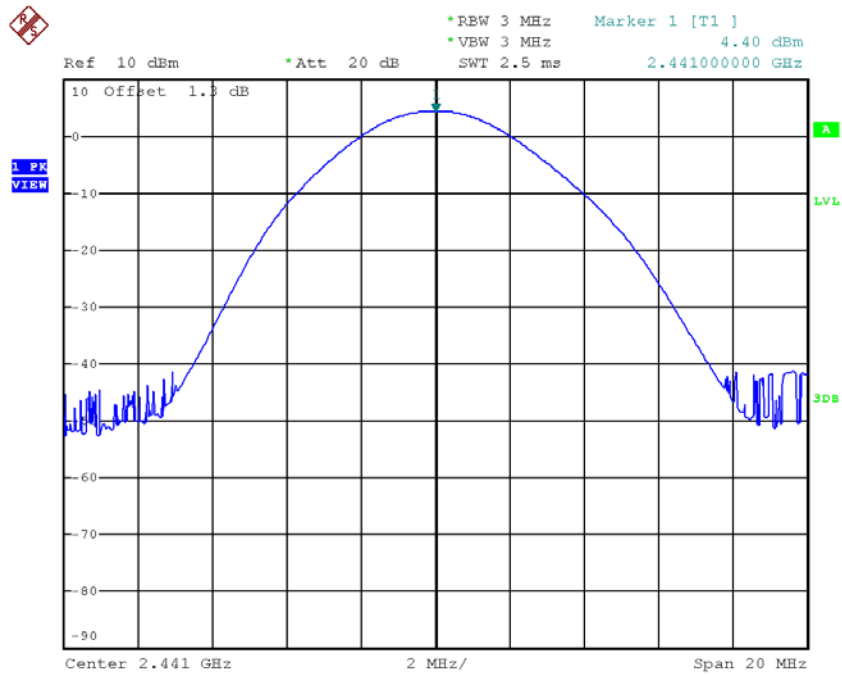
Test Mode : TX Mode _1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	3.59	0.0023	21.00	1.00	Pass
2441	4.40	0.0028	21.00	1.00	Pass
2480	4.07	0.0026	21.00	1.00	Pass



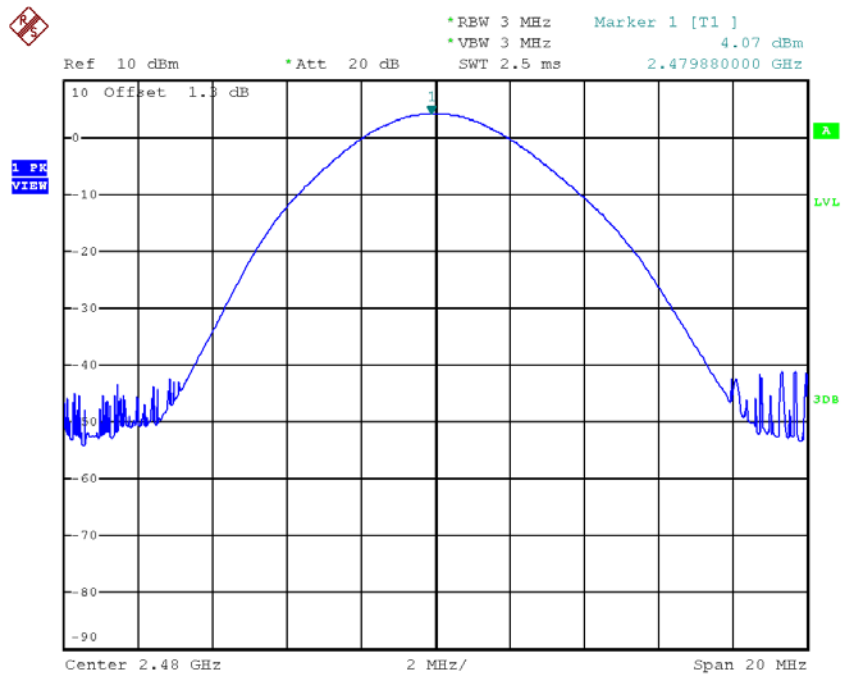
Date: 16.MAR.2018 11:20:35

CH39



Date: 16.MAR.2018 11:26:06

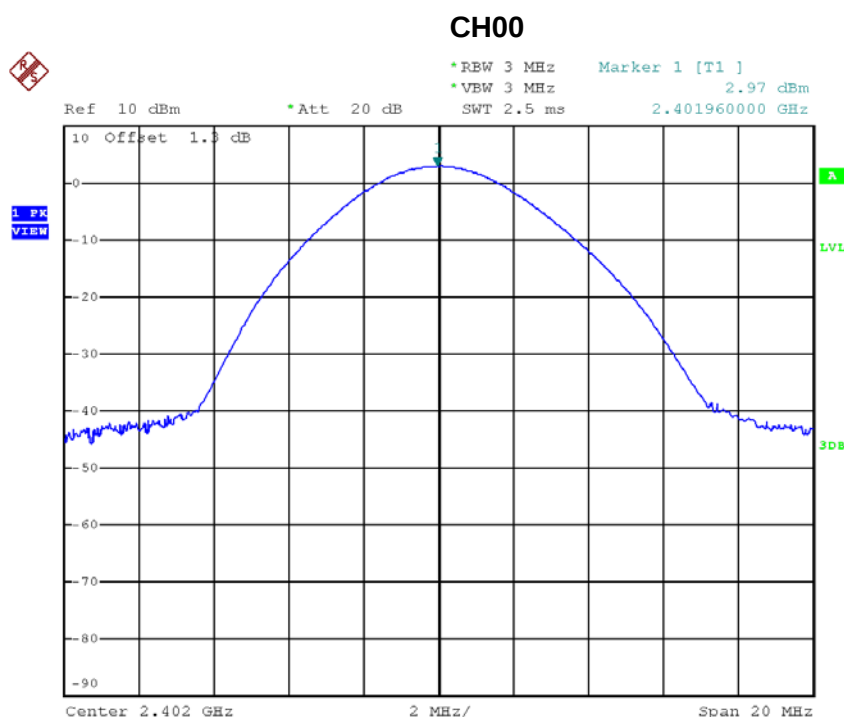
CH78



Date: 16.MAR.2018 11:25:10

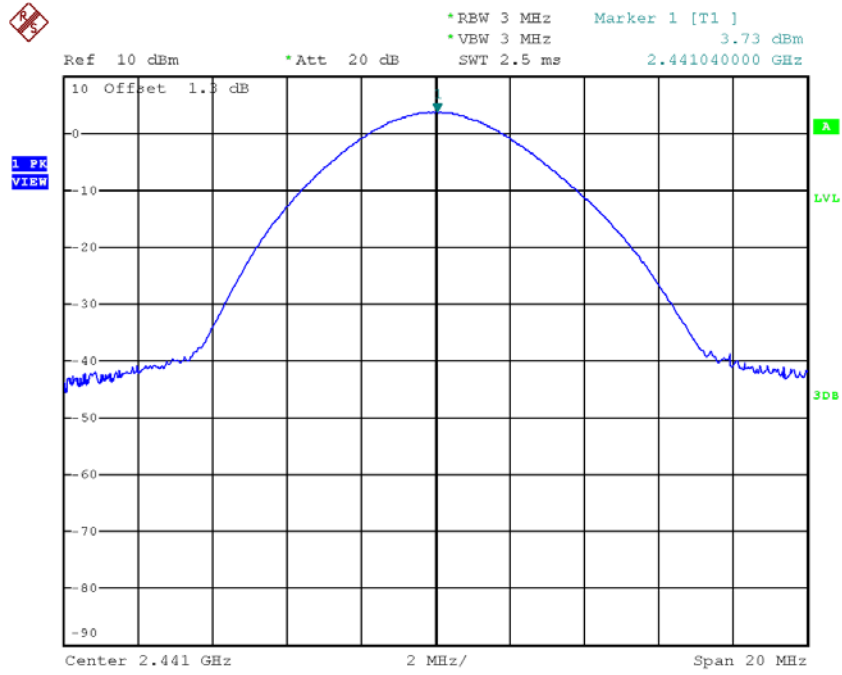
Test Mode : TX Mode _3Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	2.97	0.0020	21.00	1.00	Pass
2441	3.73	0.0024	21.00	1.00	Pass
2480	3.38	0.0022	21.00	1.00	Pass



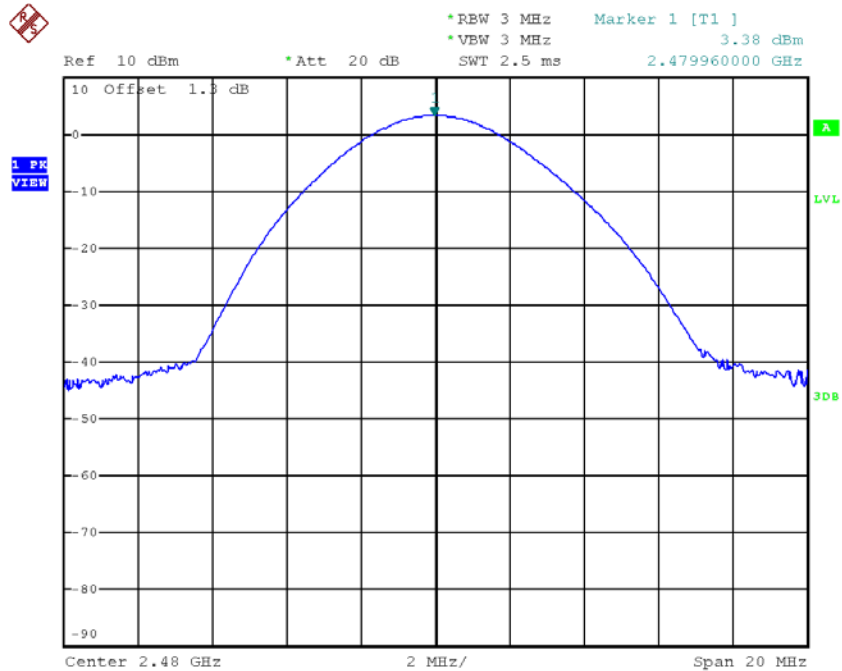
Date: 16.MAR.2018 11:54:24

CH39



Date: 16.MAR.2018 11:53:03

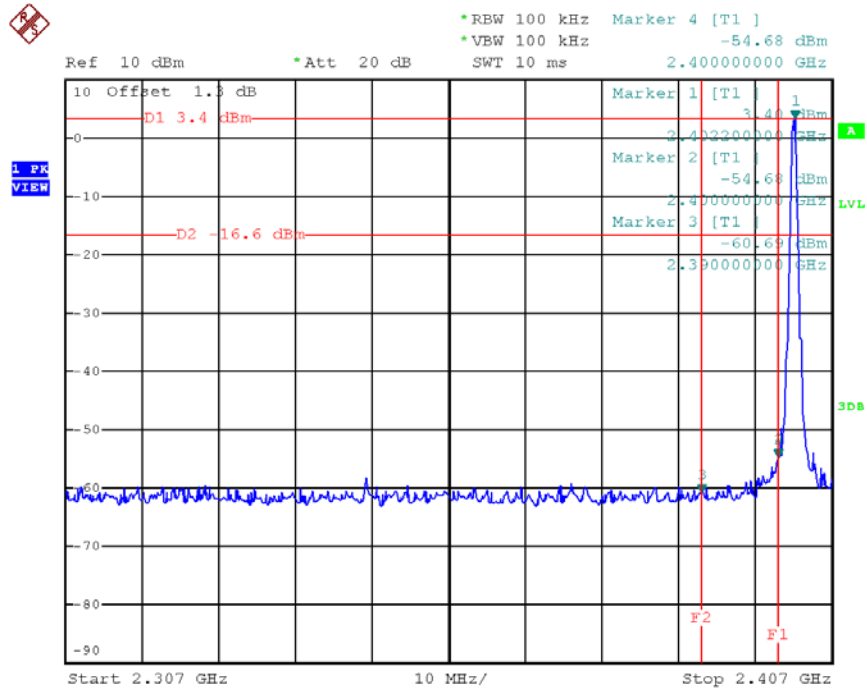
CH78



Date: 16.MAR.2018 11:53:22

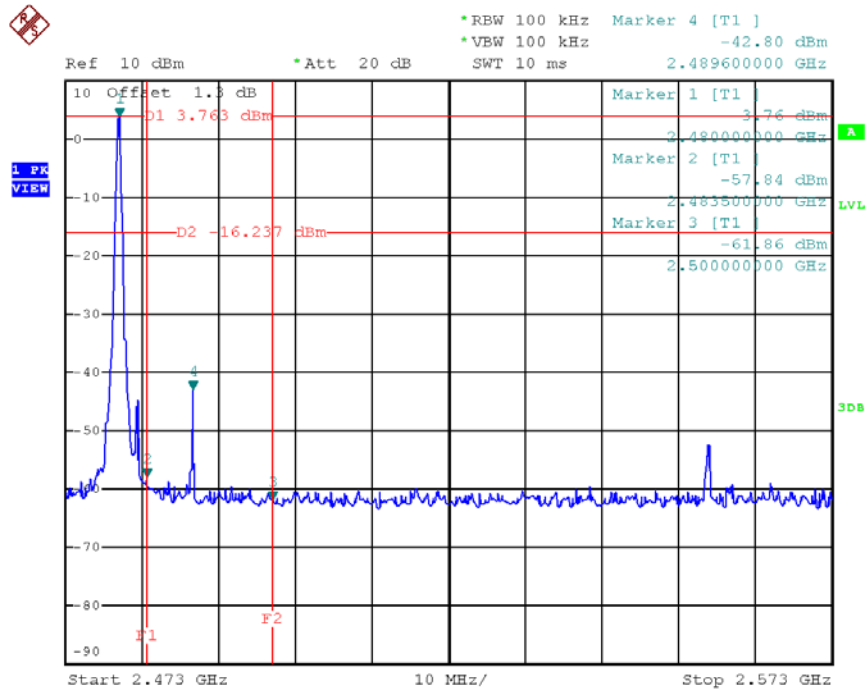
APPENDIX J - ANTENNA CONDUCTED SPURIOUS EMISSION

CH00 (Lower)_1Mbps



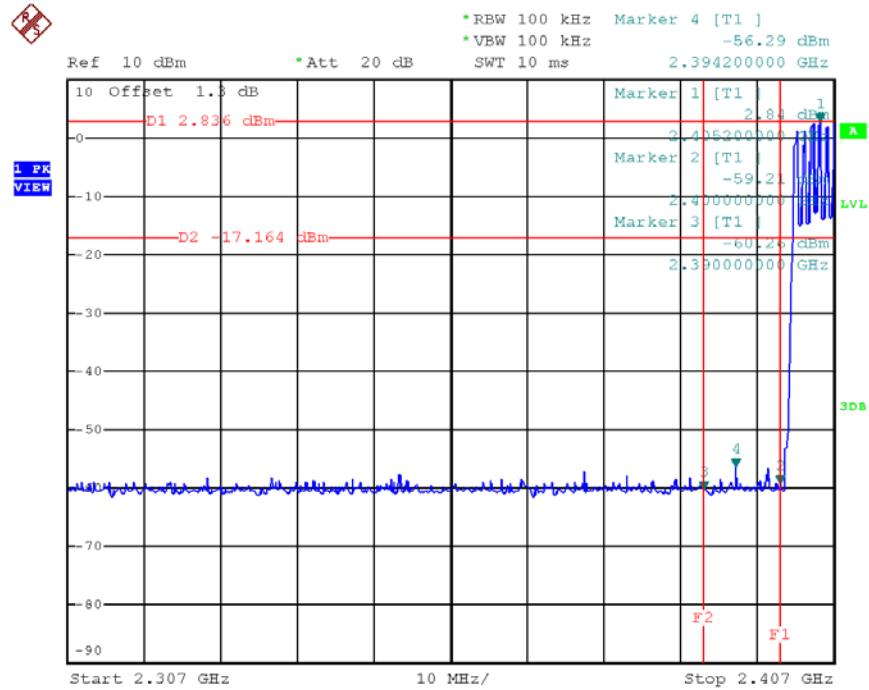
Date: 16.MAR.2018 11:32:04

CH78 (Upper)_1Mbps



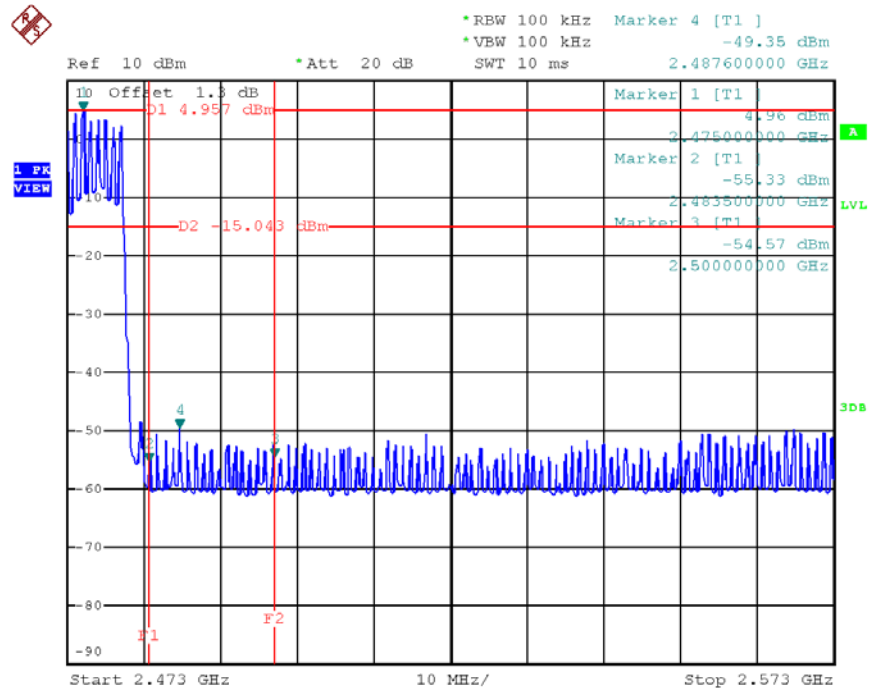
Date: 16.MAR.2018 11:36:35

CH00 Hopping on mode (Lower)_1Mbps



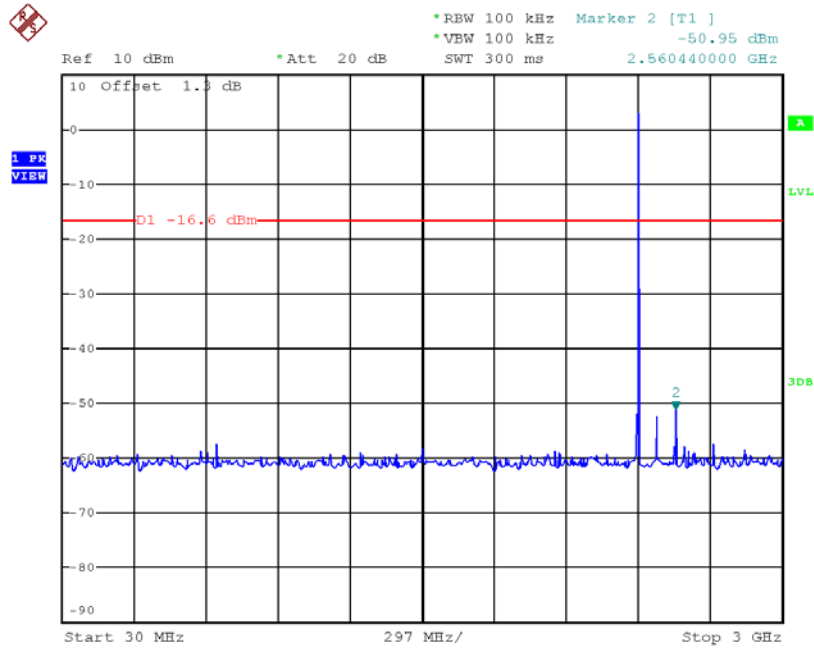
Date: 16.MAR.2018 11:44:51

CH78 Hopping on mode (Upper)_1Mbps

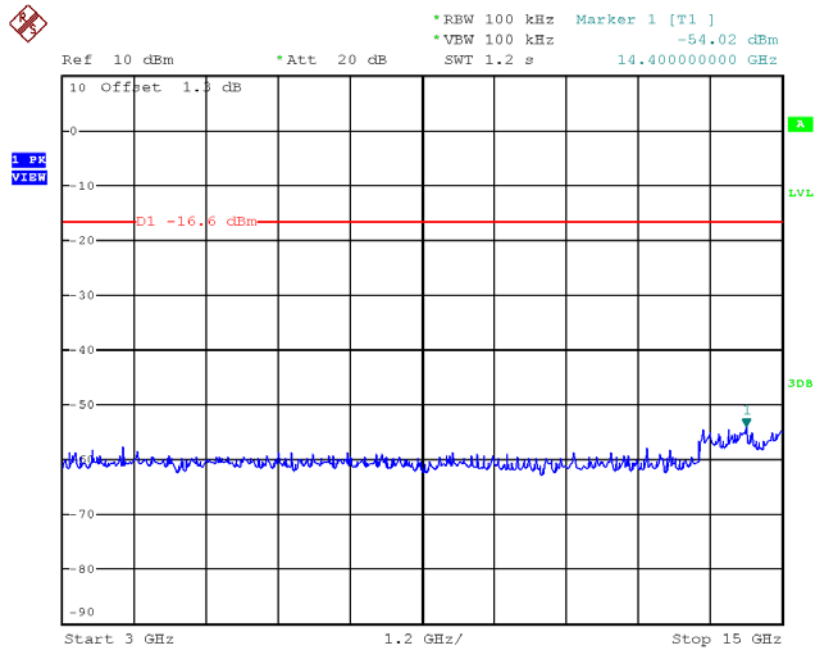


Date: 16.MAR.2018 11:45:29

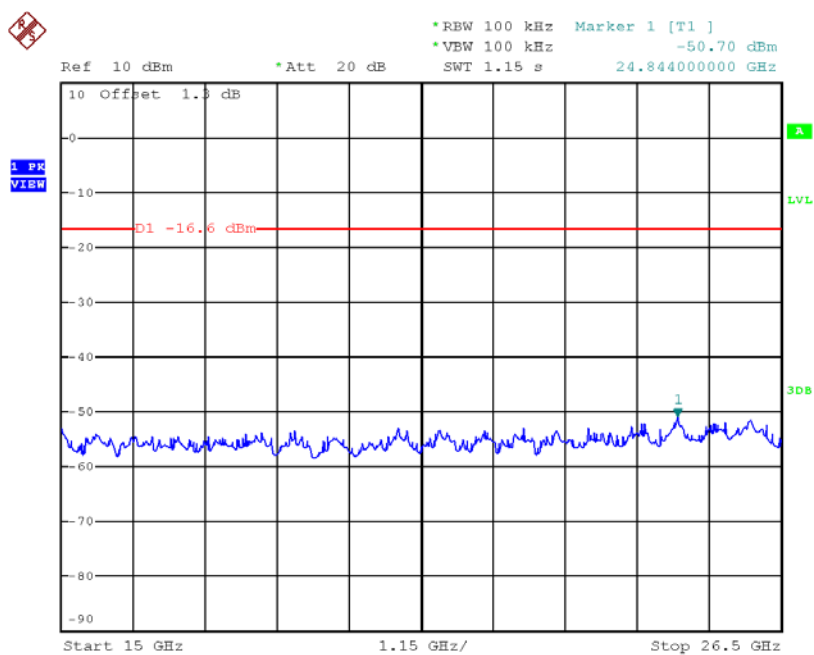
CH00 (10 Harmonic of the frequency) _1Mbps



Date: 16.MAR.2018 11:32:52

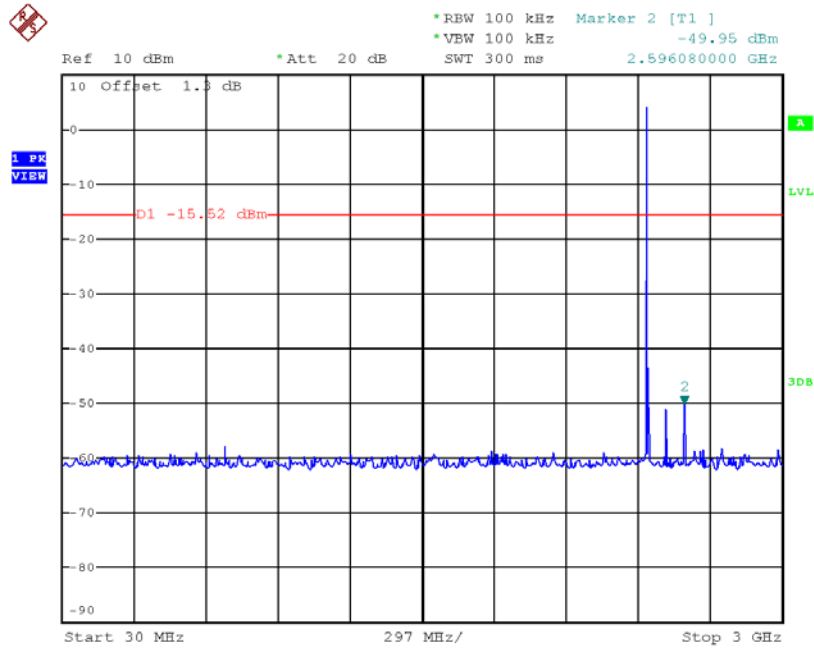


Date: 16.MAR.2018 11:32:59

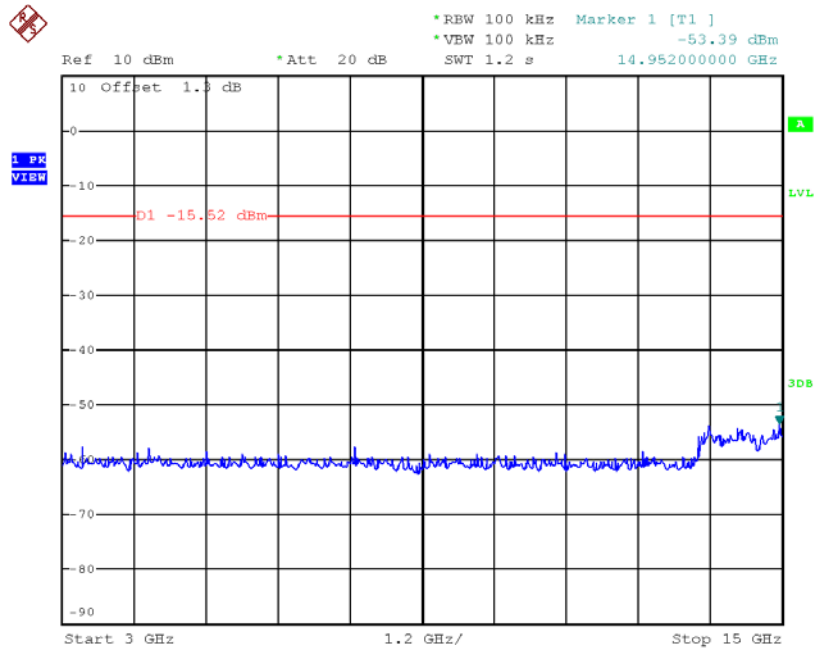


Date: 16.MAR.2018 11:33:05

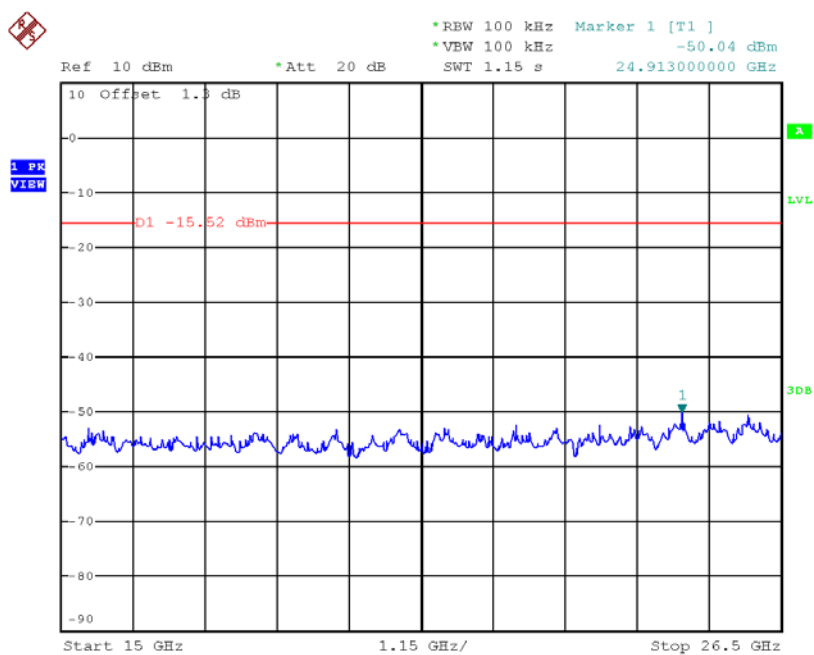
CH39 (10 Harmonic of the frequency) _1Mbps



Date: 16.MAR.2018 11:34:21

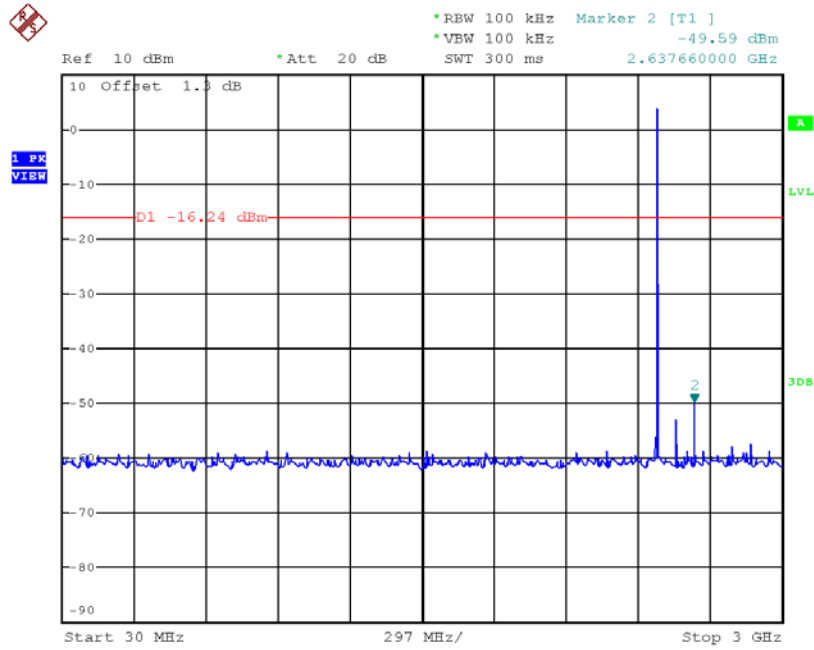


Date: 16.MAR.2018 11:34:27

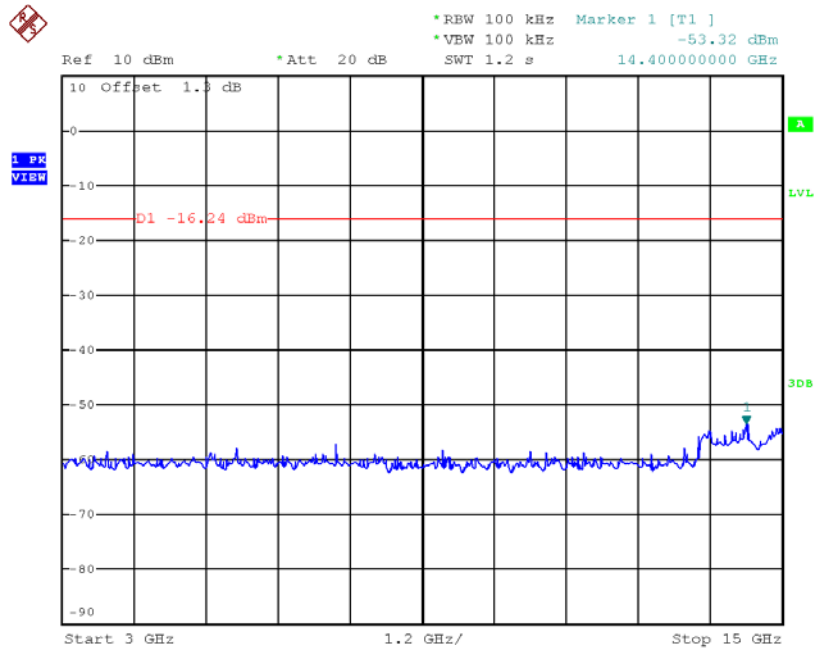


Date: 16.MAR.2018 11:34:34

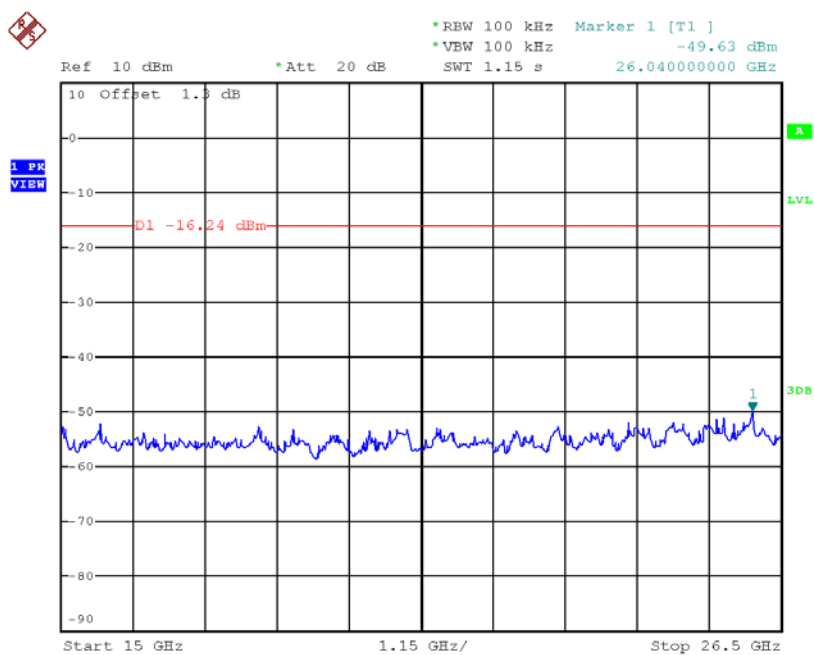
CH78 (10 Harmonic of the frequency) _1Mbps



Date: 16.MAR.2018 11:37:22

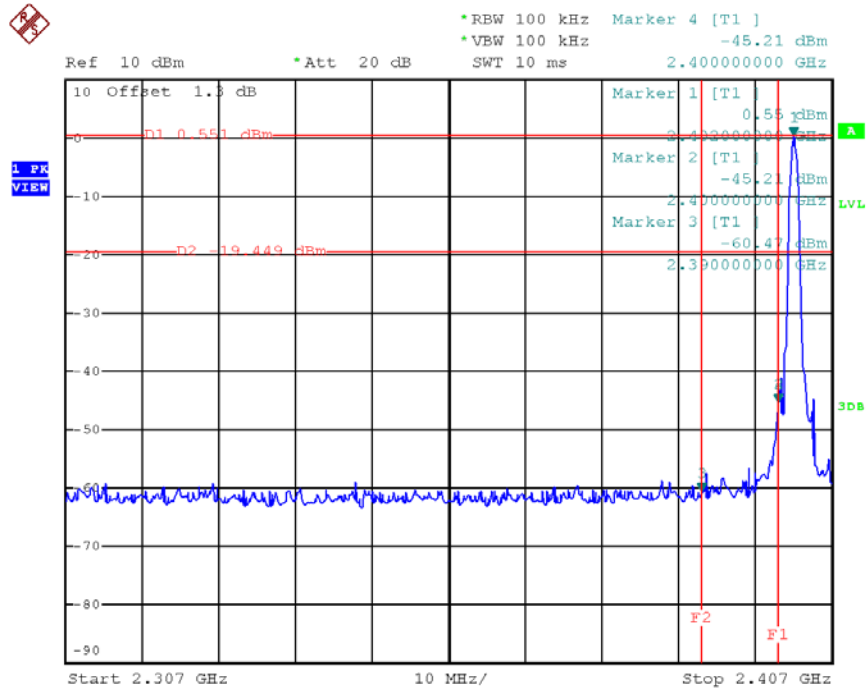


Date: 16.MAR.2018 11:37:29



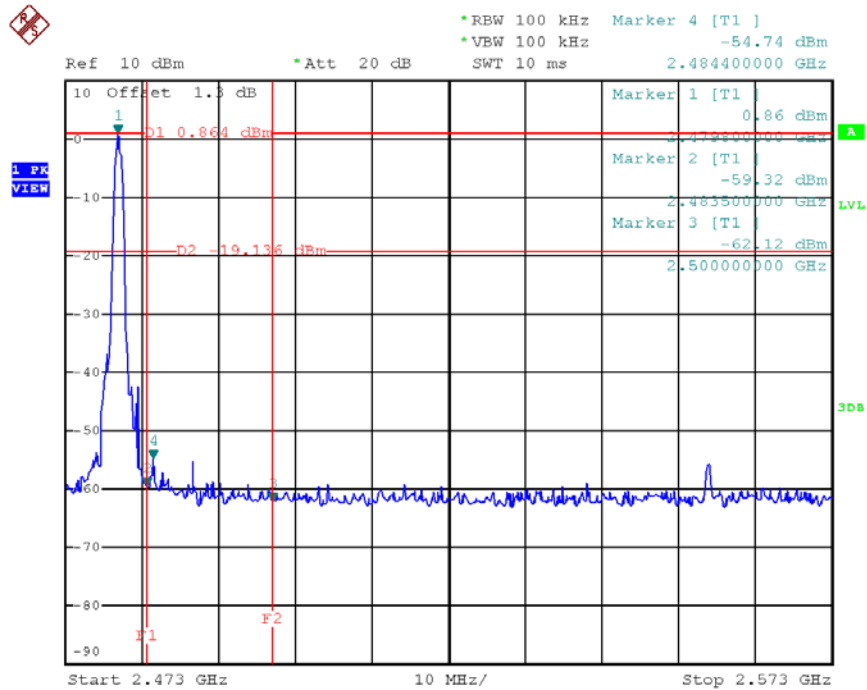
Date: 16.MAR.2018 11:37:36

CH00 (Lower) _3Mbps



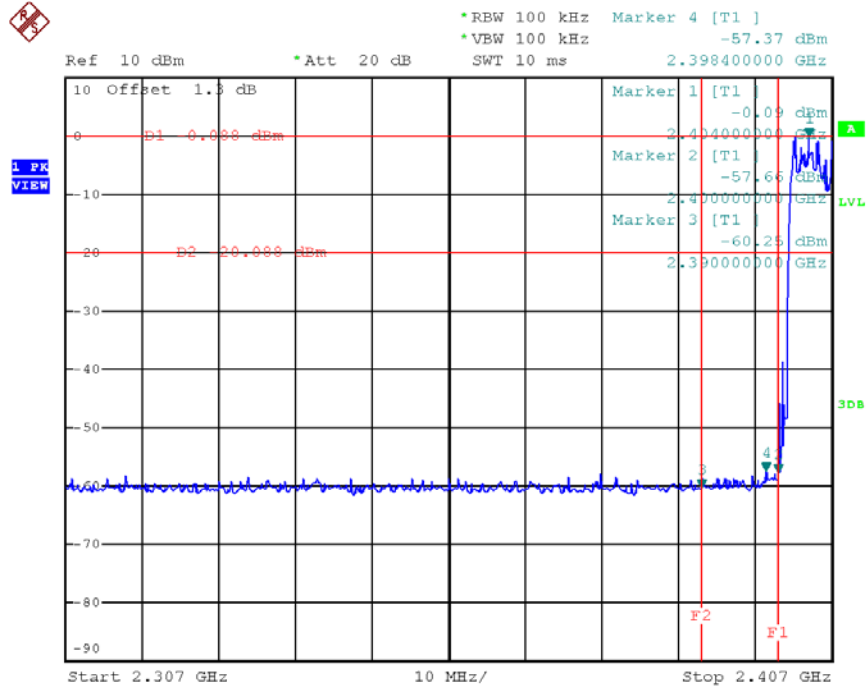
Date: 16.MAR.2018 11:56:20

CH78 (Upper) _3Mbps



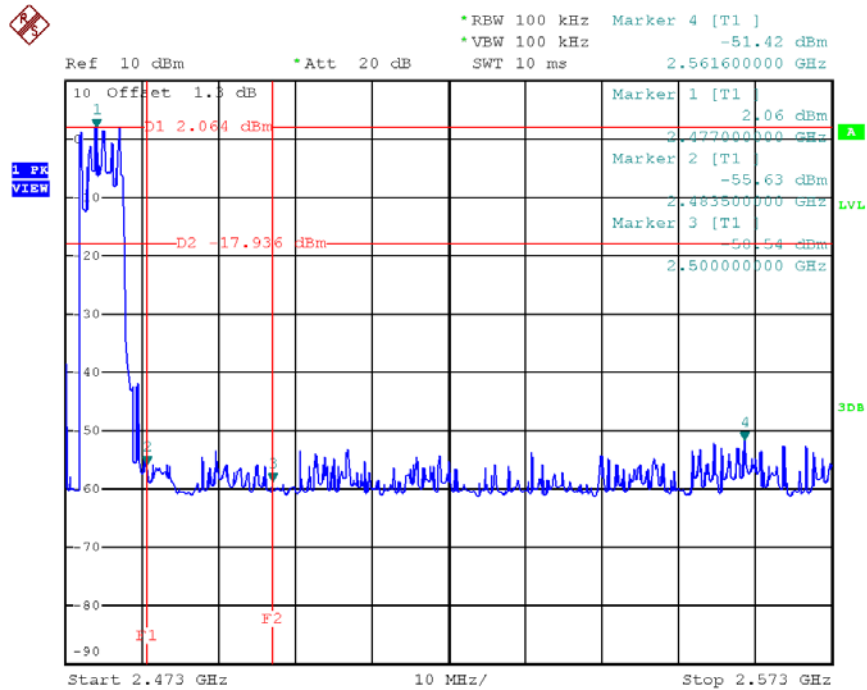
Date: 16.MAR.2018 11:59:01

CH00 Hopping on mode (Lower)_3Mbps



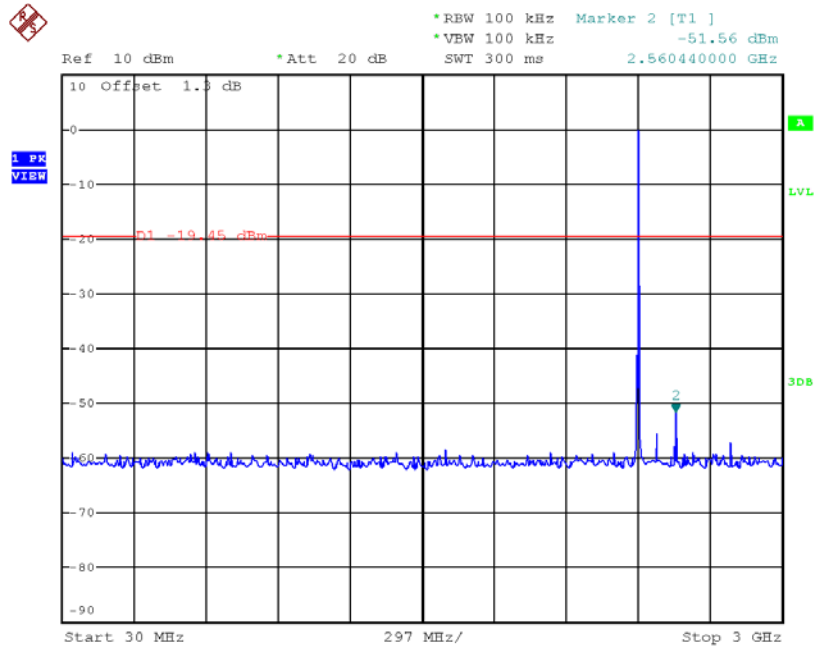
Date: 16.MAR.2018 12:06:22

CH78 Hopping on mode (Upper)_3Mbps

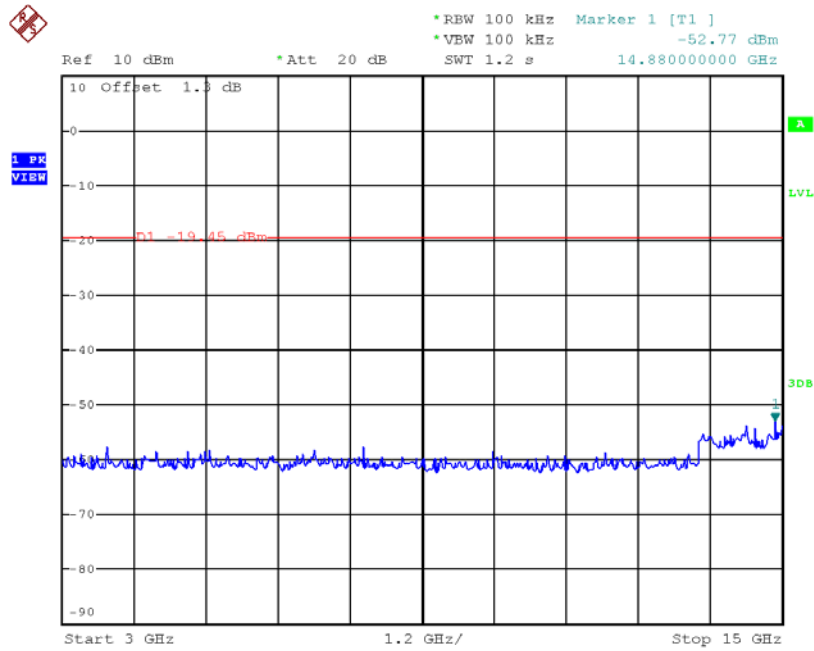


Date: 16.MAR.2018 12:07:14

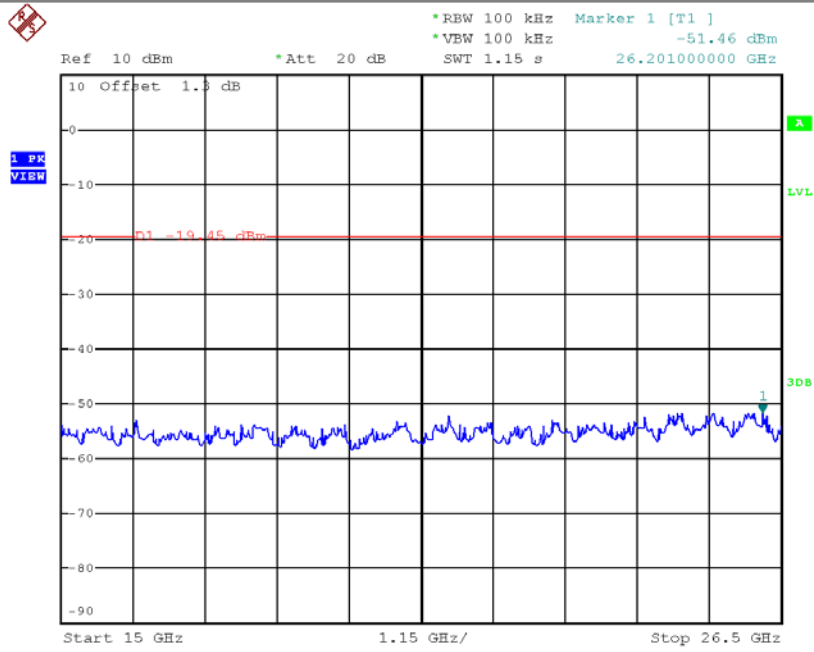
CH00 (10 Harmonic of the frequency) _3Mbps



Date: 16.MAR.2018 11:56:53

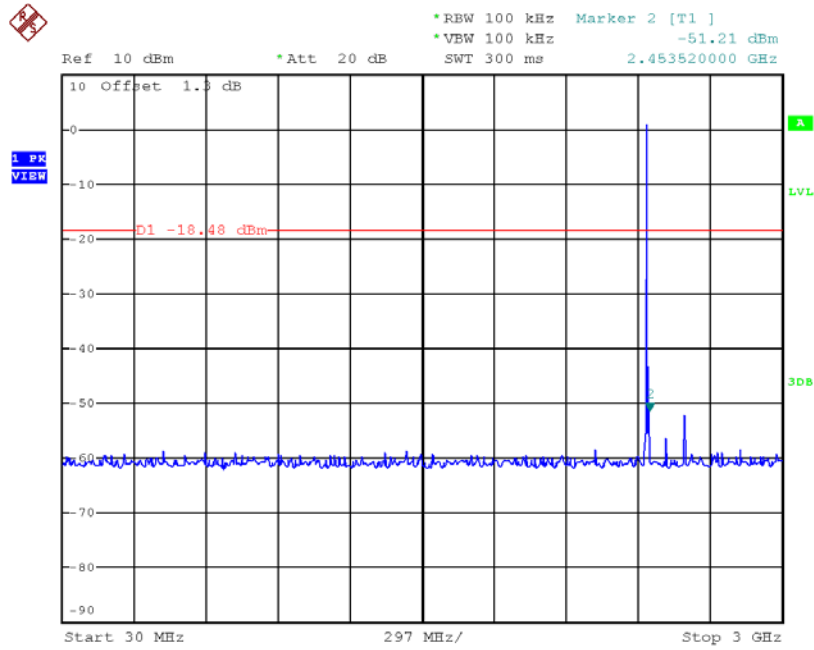


Date: 16.MAR.2018 11:57:00

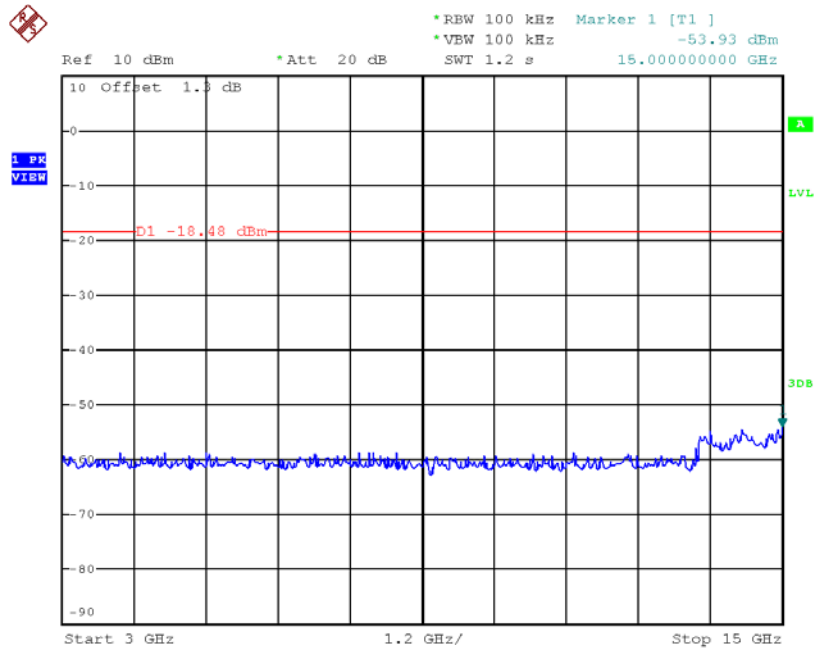


Date: 16.MAR.2018 11:57:06

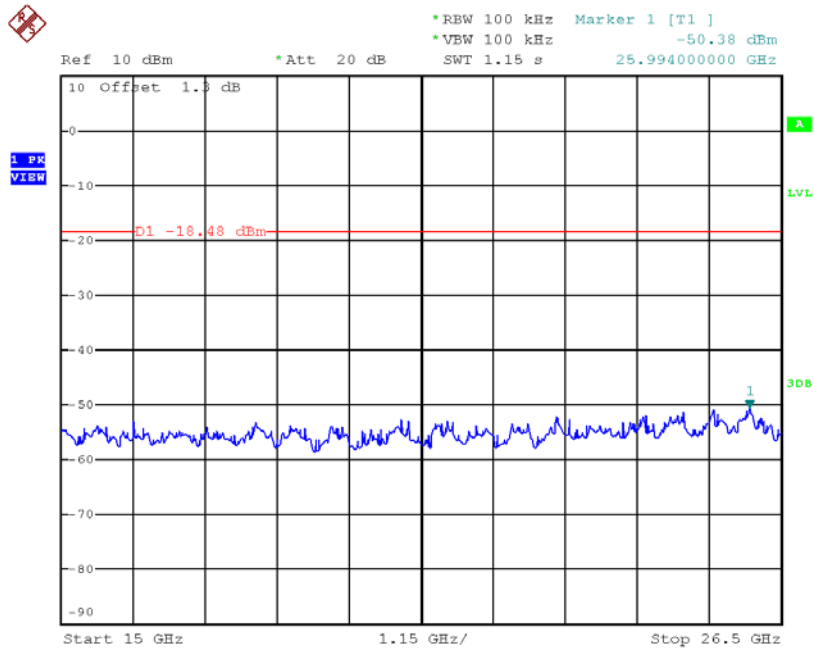
CH39 (10 Harmonic of the frequency) _3Mbps



Date: 16.MAR.2018 11:57:47

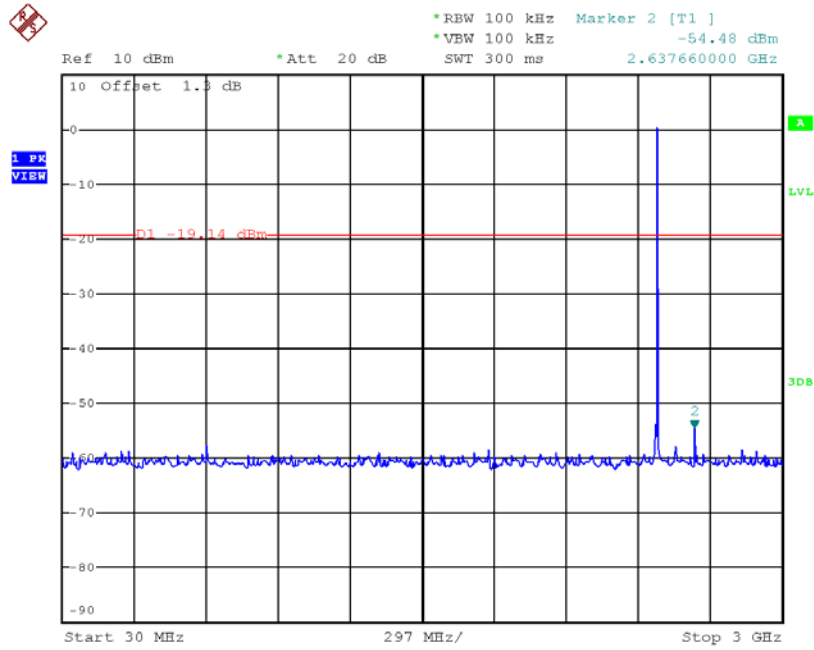


Date: 16.MAR.2018 11:57:54

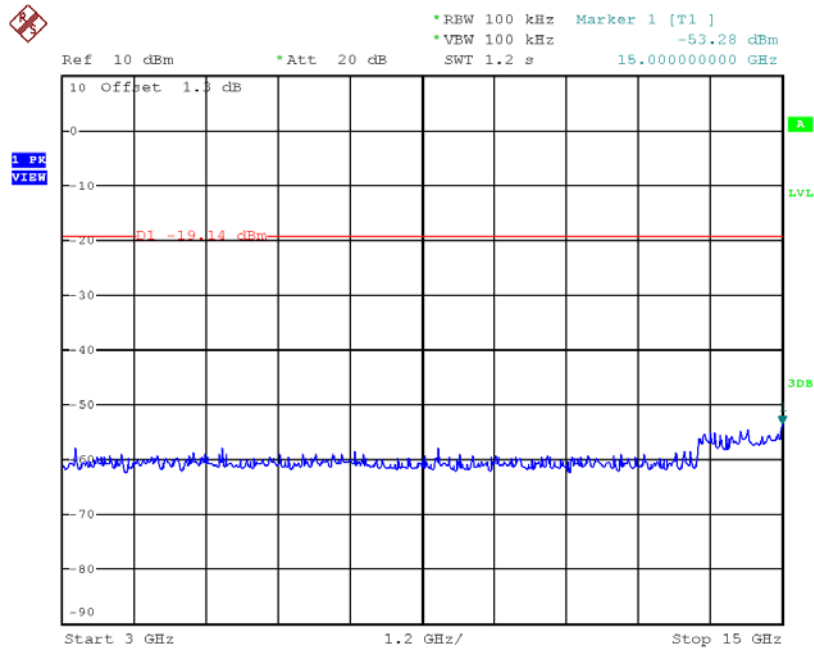


Date: 16.MAR.2018 11:58:01

CH78 (10 Harmonic of the frequency) _3Mbps



Date: 16.MAR.2018 11:59:37



Date: 16.MAR.2018 11:59:44

