

FCC Radio Test Report

FCC ID: QISHZ-W19

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

Project No. : 1603C029
Equipment : HUAWEI MateBook
Model Name : HZ-W19
Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

Date of Receipt : Mar. 02, 2016
Date of Test : Mar. 02, 2016 ~ Apr. 13, 2016
Issued Date : Apr. 14, 2016
Tested by : BTL Inc.

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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-1-1603C029	Original Issue.	Apr. 14, 2016

1. CERTIFICATION

Equipment : HUAWEI MateBook
Brand Name : HUAWEI
Model Name : HZ-W19
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 : FUTAIHUA INDUSTRY (SHENZHEN) Co., LTD
Address : Building 4,6,7,13 (Section I), Foxconn Guan Lan Technology Park B District,
Da ShuiKeng Community, Guan Lan Town, Baoan, Shenzhen 518110, P.R.
China
Date of Test : Mar. 02, 2016 ~ Apr. 13, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart C (15.247)/ ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1603C029) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): 47 CFR Part 15, Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(d) 15.209	Radiated Spurious Emission	PASS	
15.247(a)(1)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(1)(iii)	Dwell Time	PASS	
15.205	Restricted Bands	PASS	
15.203	Antenna Requirement	PASS	

Note:

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

2.1 TEST FACILITY

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

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

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

A. Conducted Measurement :

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

B. Radiated Measurement :

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	HUAWEI MateBook	
Brand Name	HUAWEI	
Model Name	HZ-W19	
Model Difference	N/A	
Product Description	Operation Frequency	2402~2480 MHz
	Modulation Technology	GFSK(1Mbps) $\pi/4$ -DQPSK(2Mbps)
	Bit Rate of Transmitter	8-DPSK(3Mbps)
	Output Power Max.	10.80 dBm(1Mbps) 10.47 dBm(3Mbps)
Power Source	#1 DC Voltage supplied from adapter. Brand/Model: HUAWEI / HW-59C200UHPQ1 #2 Supplied from battery.	
Power Rating	#1 I/P: 100-240V~50/60Hz 1.0A O/P: 5V --- 2A OR 9V --- 2A OR 12V --- 2A #2 DC 7.60V/4300mAh/32.7Wh	
HW Version	S1	
SW Version	HZ-09C001B002	

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.
USB-C Data Charger Cable	HUAWEI	N/A
USB-C to Micro-USB Cable	HUAWEI	N/A
Micro-USB to USB-A Adaptor	HUAWEI	N/A
Battery	Sunwoda Electronic Co., LTD	HB25B7N4EBC
	SCUD (FUJIAN) Electronics Co., Ltd	HB25B7N4EBC
	Harbin Coslight Power Co., Ltd.	HB25B7N4EBC
Portfolio Keyboard(Optional)	HUAWEI	AF20
MatePen(Optional)	HUAWEI	AF61

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	1

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:

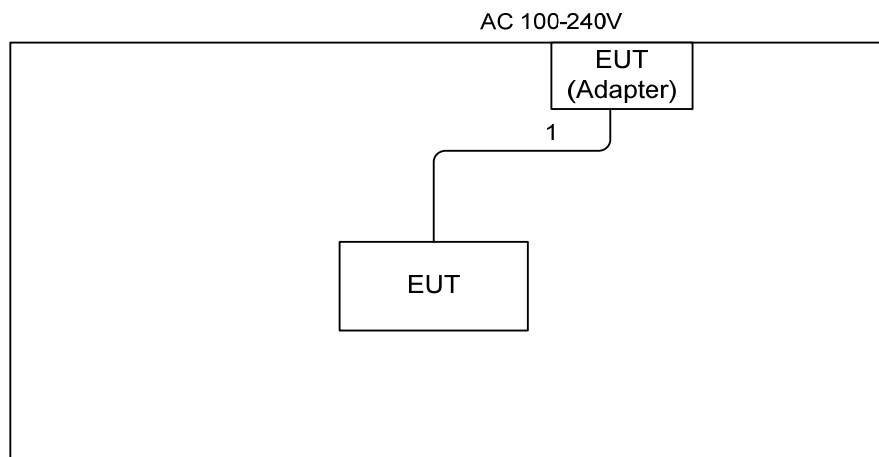
- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

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	Bule Tool		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	1	1	1
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	YES	NO	1.4m	Type C Cable

Note:

(1) For detachable type I/O cable should be specified the length in m in 『Length』 column.

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 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

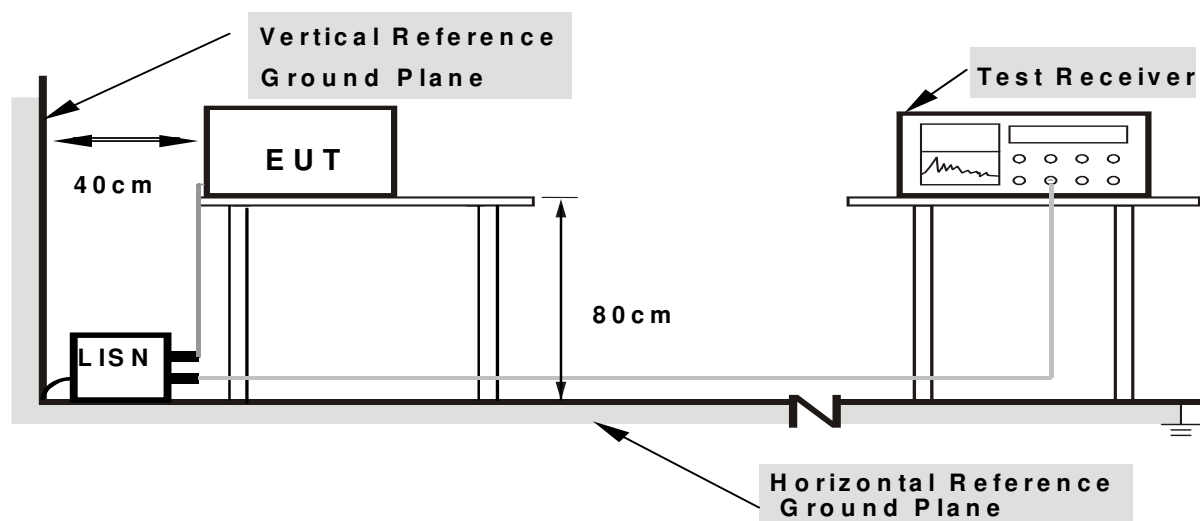
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

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

4.2 RADIATED EMISSION MEASUREMENT

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (emission in restricted band)	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

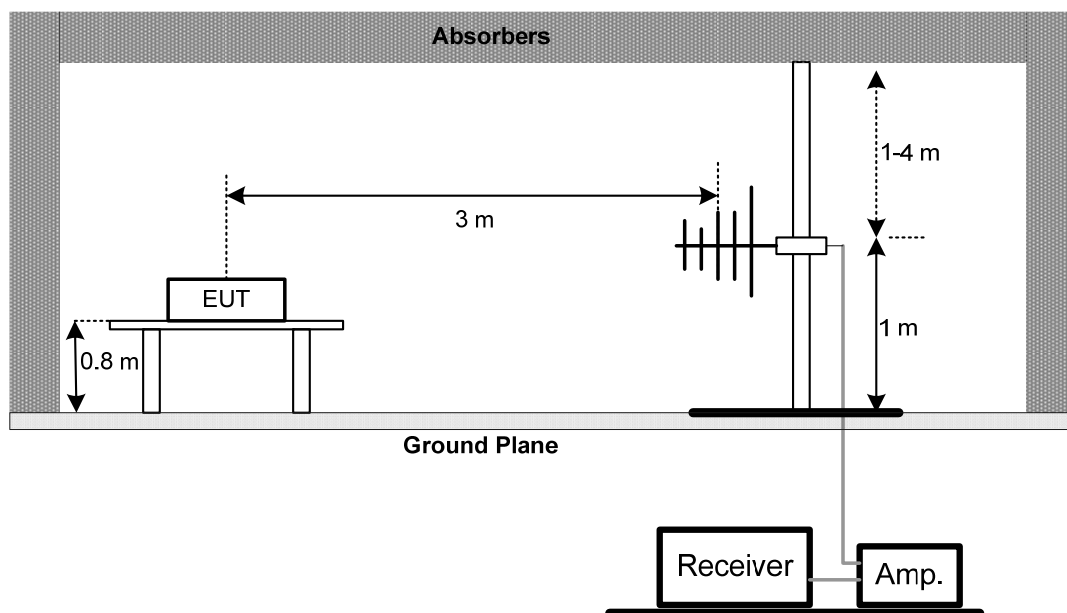
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, 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.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

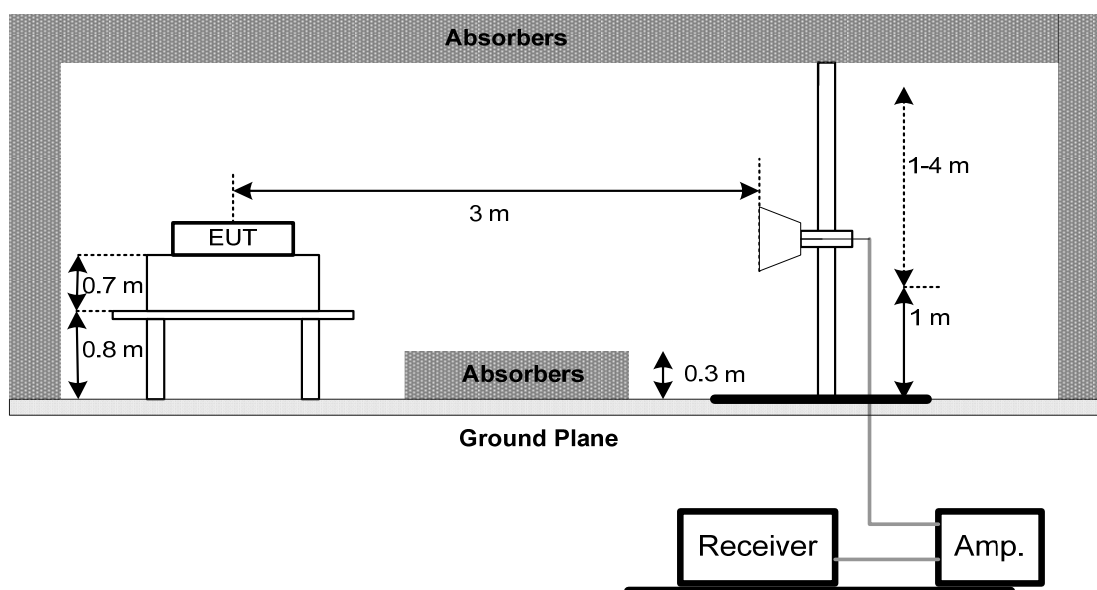
No deviation

4.2.4 TEST SETUP

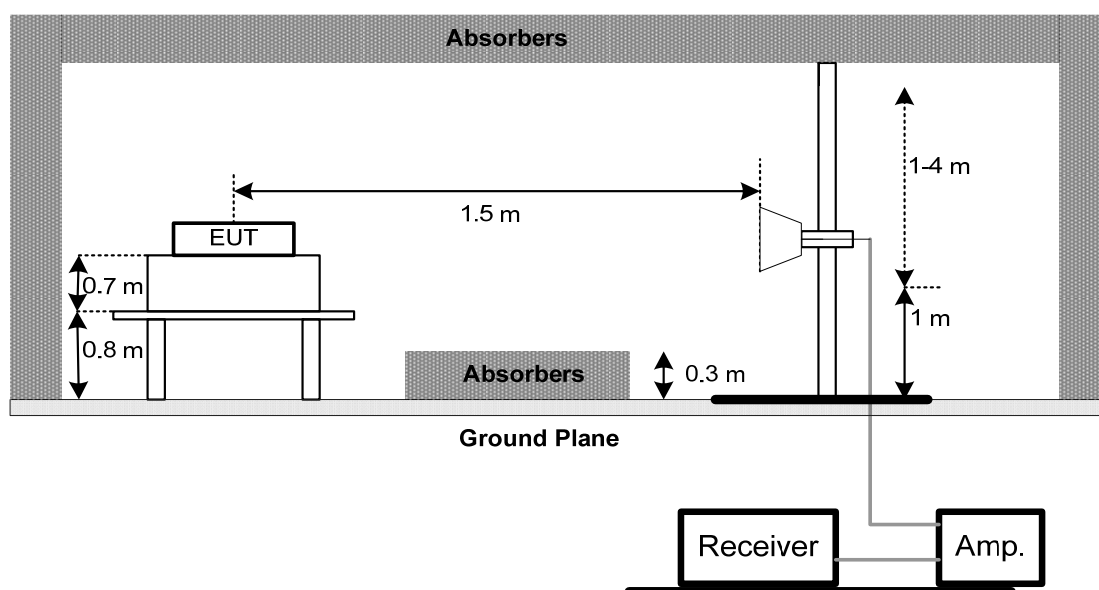
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



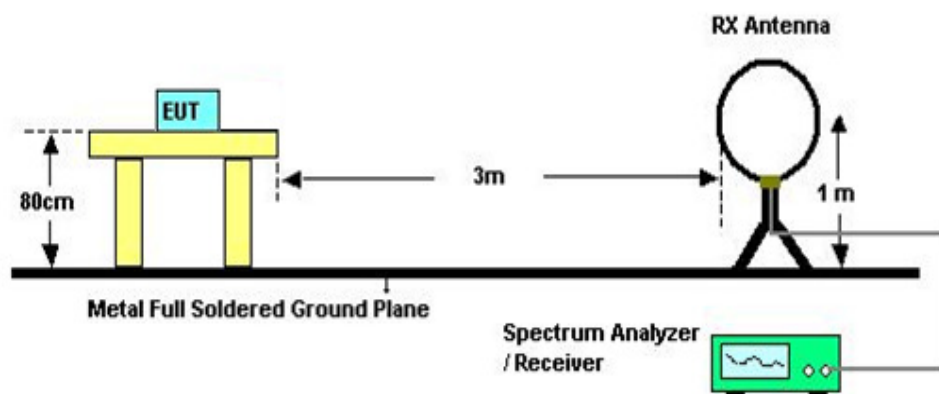
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz
Band edge



Harmonic



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT 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

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW=120KHz, Swp. Time = 0.3 sec./MHz.
- (2) 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.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (2) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (3) EUT Orthogonal Axis:
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (4) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (5) 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

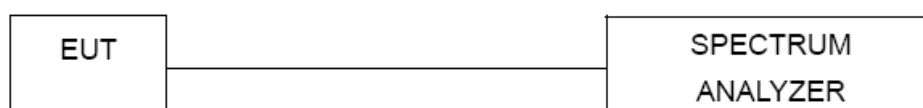
5.1.1 TEST PROCEDURE

- 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 Attachment E

6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

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

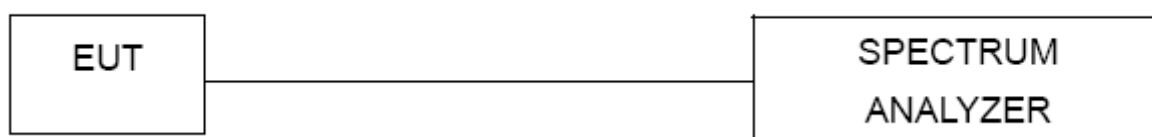
6.1.1 TEST PROCEDURE

- 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 Attachment F

7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

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

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

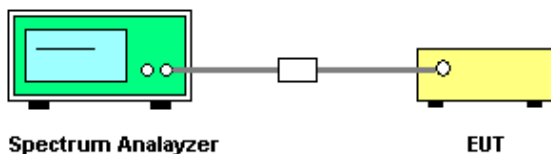
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT TEST CONDITIONS

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

7.1.5 TEST RESULTS

Please refer to the Attachment G

8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES

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

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

8.1.1 TEST PROCEDURE

- 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 Attachment H

9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

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

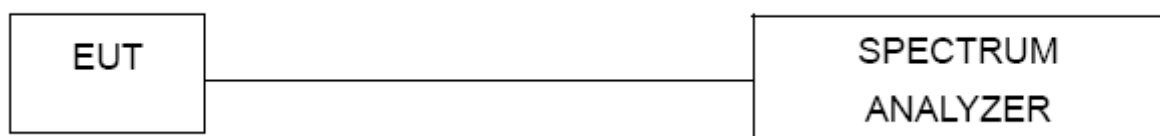
9.1.1 TEST PROCEDURE

- 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 Attachment I

10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

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

10.1.1 TEST PROCEDURE

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

10.1.2 DEVIATION FROM STANDARD

No deviation.

10.1.3 TEST SETUP



10.1.4 EUT OPERATION CONDITIONS

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

10.1.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

10.1.6 TEST RESULTS

Please refer to the Attachment J

11. MEASUREMENT INSTRUMENTS LIST

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

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 27, 2017
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz – 26.5GHz)	C-68	Jun. 28, 2016
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 27, 2017
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016

Number of Hopping Channel					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Average Time of Occupancy					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

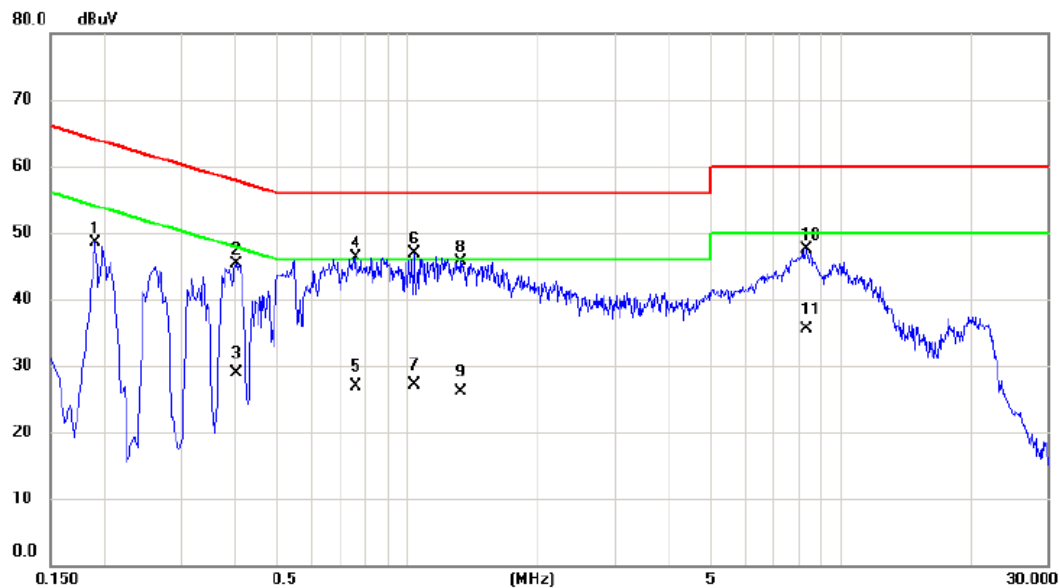
Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

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

ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX Mode(Adapter: BYD)

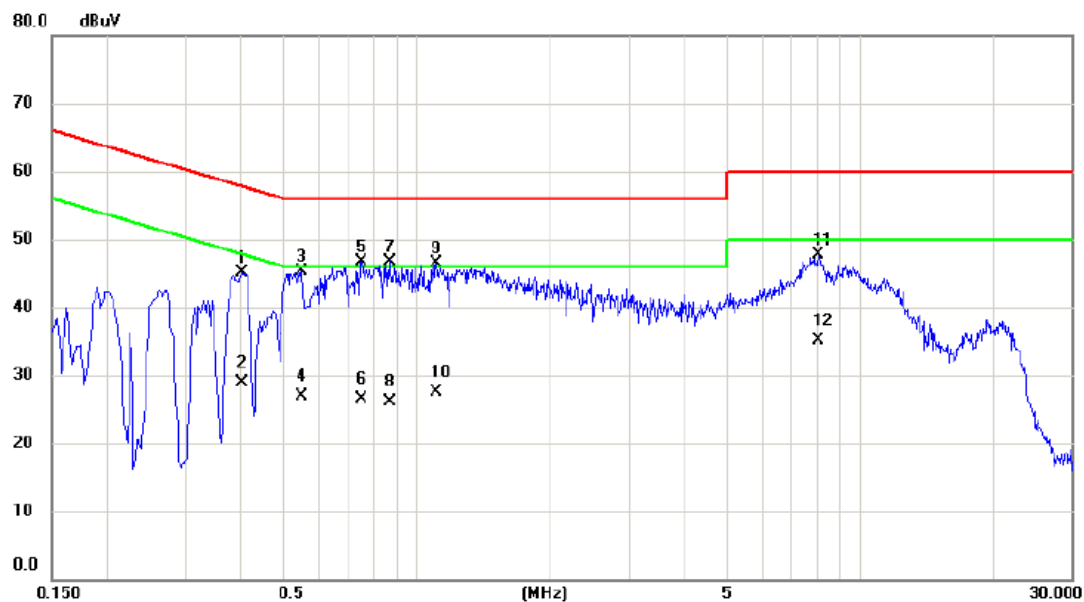
Line



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1900	39.06	9.48	48.54	64.04	-15.50	peak	
2	0.4020	35.72	9.52	45.24	57.81	-12.57	peak	
3	0.4020	19.46	9.52	28.98	47.81	-18.83	AVG	
4	0.7580	36.81	9.56	46.37	56.00	-9.63	peak	
5	0.7580	17.35	9.56	26.91	46.00	-19.09	AVG	
6 *	1.0340	37.29	9.58	46.87	56.00	-9.13	peak	
7	1.0340	17.47	9.58	27.05	46.00	-18.95	AVG	
8	1.3260	36.12	9.63	45.75	56.00	-10.25	peak	
9	1.3260	16.55	9.63	26.18	46.00	-19.82	AVG	
10	8.3300	37.60	9.85	47.45	60.00	-12.55	peak	
11	8.3300	25.66	9.85	35.51	50.00	-14.49	AVG	

Test Mode: TX Mode(Adapter: BYD)

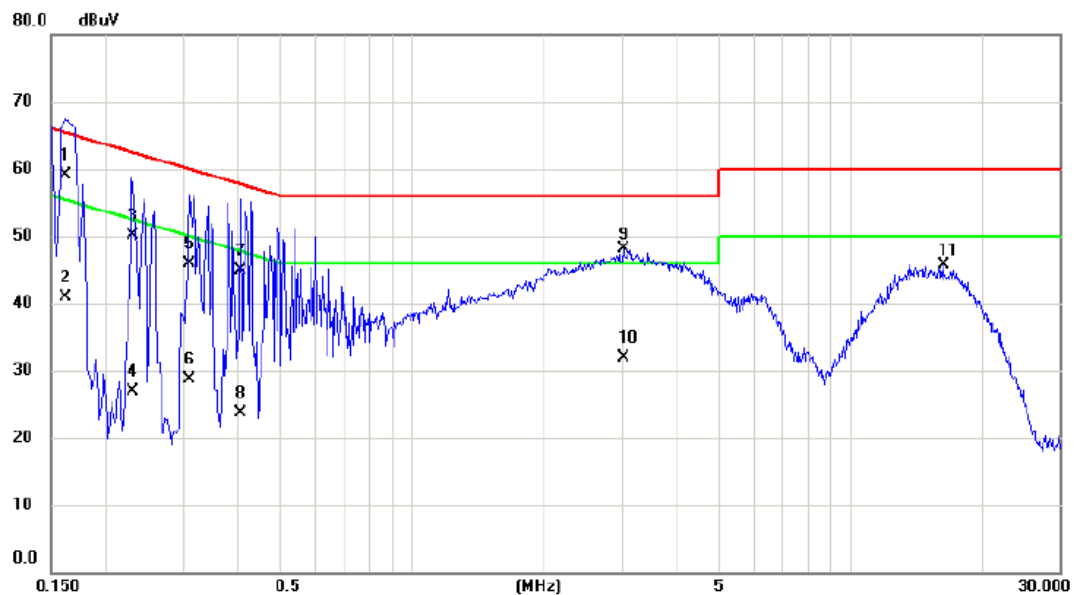
Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4020	35.44	9.67	45.11	57.81	-12.70	peak	
2		0.4020	19.27	9.67	28.94	47.81	-18.87	AVG	
3		0.5500	35.61	9.69	45.30	56.00	-10.70	peak	
4		0.5500	17.21	9.69	26.90	46.00	-19.10	AVG	
5		0.7500	36.97	9.76	46.73	56.00	-9.27	peak	
6		0.7500	16.83	9.76	26.59	46.00	-19.41	AVG	
7	*	0.8700	37.03	9.77	46.80	56.00	-9.20	peak	
8		0.8700	16.34	9.77	26.11	46.00	-19.89	AVG	
9		1.1060	36.65	9.80	46.45	56.00	-9.55	peak	
10		1.1060	17.65	9.80	27.45	46.00	-18.55	AVG	
11		8.0500	37.82	9.91	47.73	60.00	-12.27	peak	
12		8.0500	25.10	9.91	35.01	50.00	-14.99	AVG	

Test Mode: TX Mode(Adapter: SALCOMP)

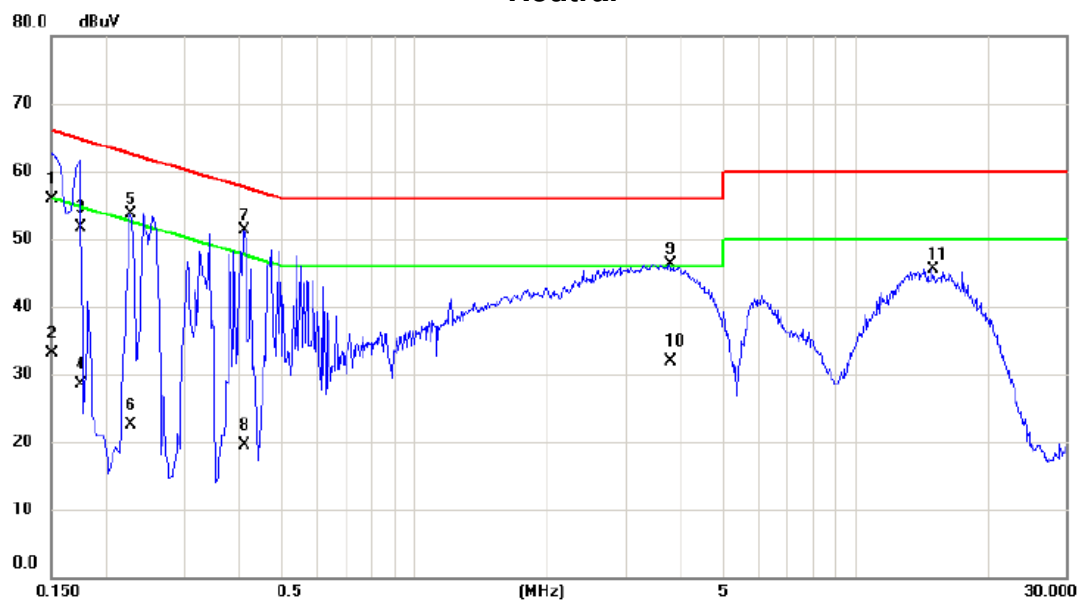
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1620	49.61	9.46	59.07	65.36	-6.29	QP	
2		0.1620	31.53	9.46	40.99	55.36	-14.37	AVG	
3		0.2300	40.54	9.50	50.04	62.45	-12.41	QP	
4		0.2300	17.50	9.50	27.00	52.45	-25.45	AVG	
5		0.3100	36.33	9.51	45.84	59.97	-14.13	QP	
6		0.3100	19.18	9.51	28.69	49.97	-21.28	AVG	
7		0.4060	35.37	9.52	44.89	57.73	-12.84	QP	
8		0.4060	14.15	9.52	23.67	47.73	-24.06	AVG	
9		3.0380	38.25	9.80	48.05	56.00	-7.95	peak	
10		3.0380	22.15	9.80	31.95	46.00	-14.05	AVG	
11		16.2620	35.84	9.93	45.77	60.00	-14.23	peak	

Test Mode: TX Mode(Adapter: SALCOMP)

Neutral

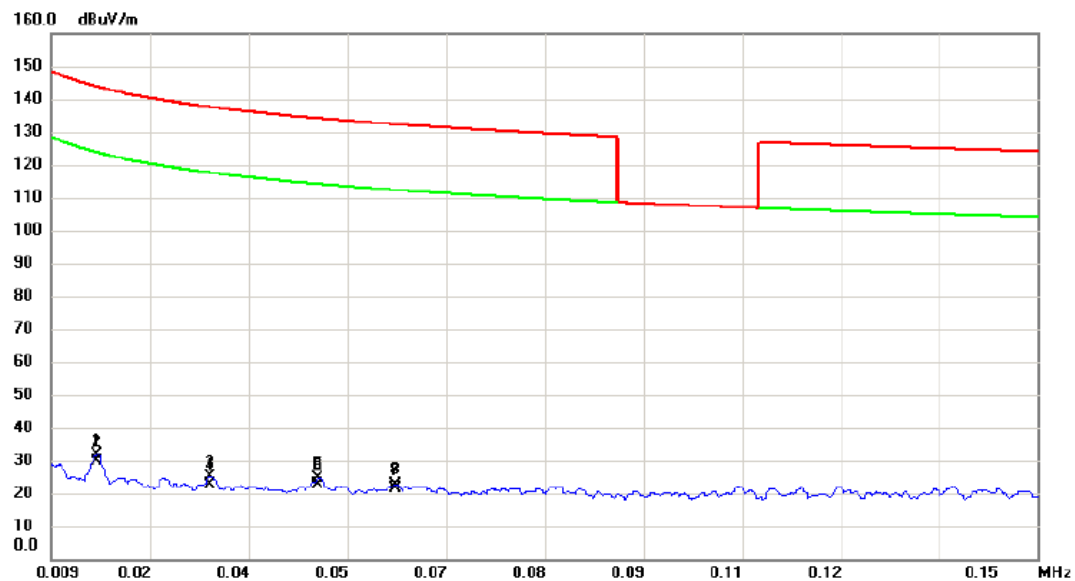


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	46.34	9.47	55.81	66.00	-10.19	QP	
2		0.1500	23.66	9.47	33.13	56.00	-22.87	AVG	
3		0.1740	42.19	9.46	51.65	64.77	-13.12	QP	
4		0.1740	18.97	9.46	28.43	54.77	-26.34	AVG	
5		0.2260	44.24	9.50	53.74	62.60	-8.86	peak	
6		0.2260	13.00	9.50	22.50	52.60	-30.10	AVG	
7	*	0.4100	41.85	9.52	51.37	57.65	-6.28	peak	
8		0.4100	10.04	9.52	19.56	47.65	-28.09	AVG	
9		3.7940	36.43	9.87	46.30	56.00	-9.70	peak	
10		3.7940	21.94	9.87	31.81	46.00	-14.19	AVG	
11		14.9820	35.64	9.92	45.56	60.00	-14.44	peak	

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

Test Mode: TX Mode(Adapter: BYD)

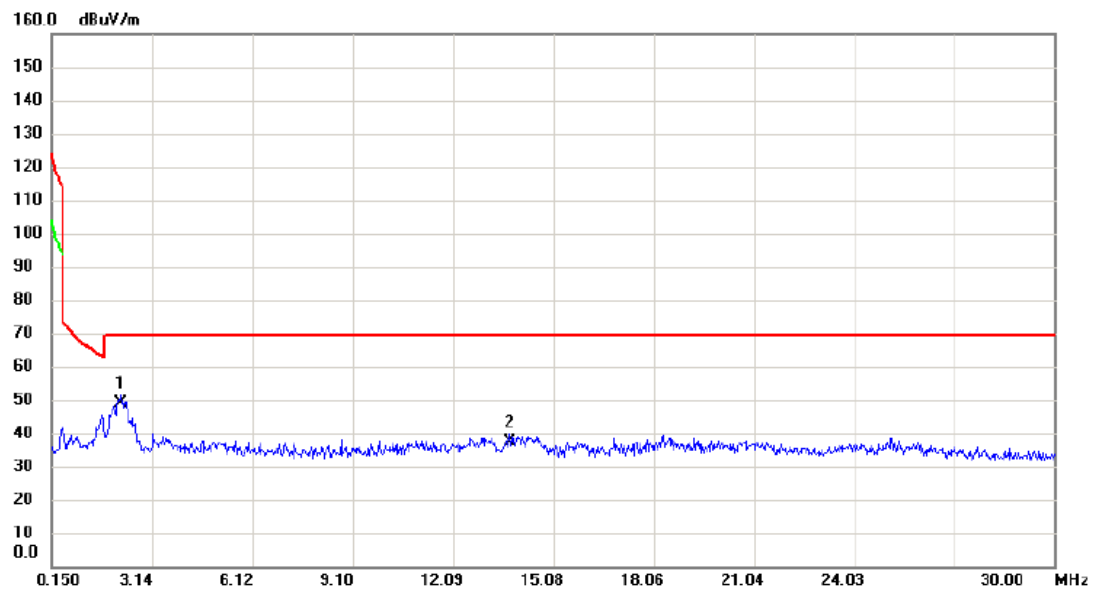
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0155	10.26	21.40	31.66	143.80	-112.14	peak	
2		0.0155	8.60	21.40	30.00	123.80	-93.80	AVG	
3		0.0316	3.70	21.44	25.14	137.61	-112.47	peak	
4		0.0316	1.30	21.44	22.74	117.61	-94.87	AVG	
5		0.0471	3.08	21.59	24.67	134.14	-109.47	peak	
6		0.0471	1.20	21.59	22.79	114.14	-91.35	AVG	
7		0.0582	1.30	21.43	22.73	132.31	-109.58	peak	
8	*	0.0582	0.11	21.43	21.54	112.31	-90.77	AVG	

Test Mode:	TX Mode(Adapter: BYD)
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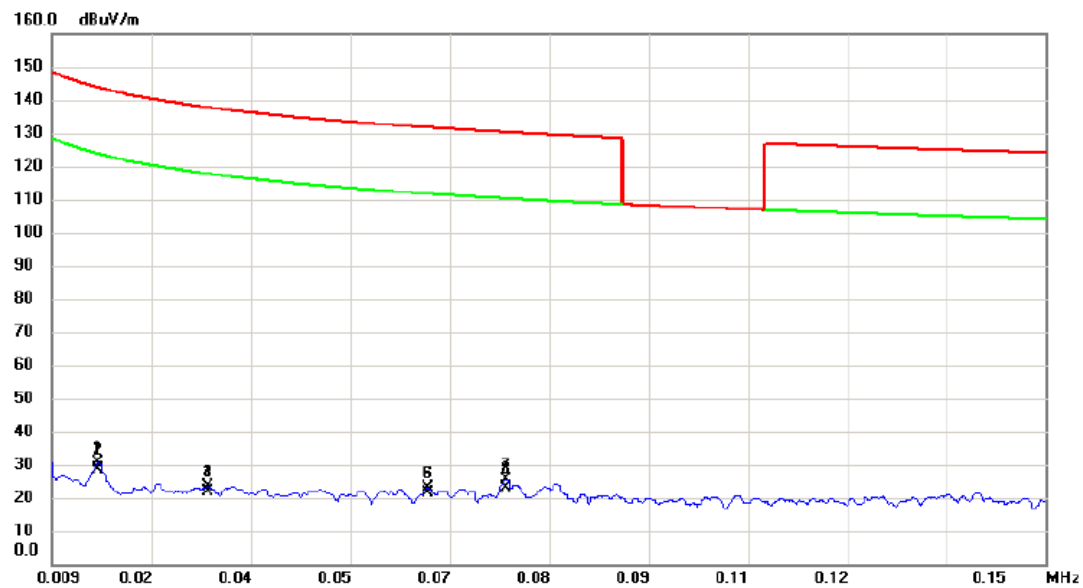
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2.2096	27.26	21.71	48.97	69.54	-20.57	QP	
2		13.7913	15.20	22.34	37.54	69.54	-32.00	QP	

Test Mode: TX Mode(Adapter: BYD)

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0154	9.02	21.40	30.42	143.85	-113.43	peak	
2		0.0154	7.10	21.40	28.50	123.85	-95.35	AVG	
3		0.0310	2.00	21.43	23.43	137.78	-114.35	peak	
4		0.0310	0.25	21.43	21.68	117.78	-96.10	AVG	
5		0.0623	1.63	21.33	22.96	131.72	-108.76	peak	
6		0.0623	0.20	21.33	21.53	111.72	-90.19	AVG	
7		0.0734	4.47	21.07	25.54	130.29	-104.75	peak	
8	*	0.0734	2.10	21.07	23.17	110.29	-87.12	AVG	

Test Mode:	TX Mode(Adapter: BYD)
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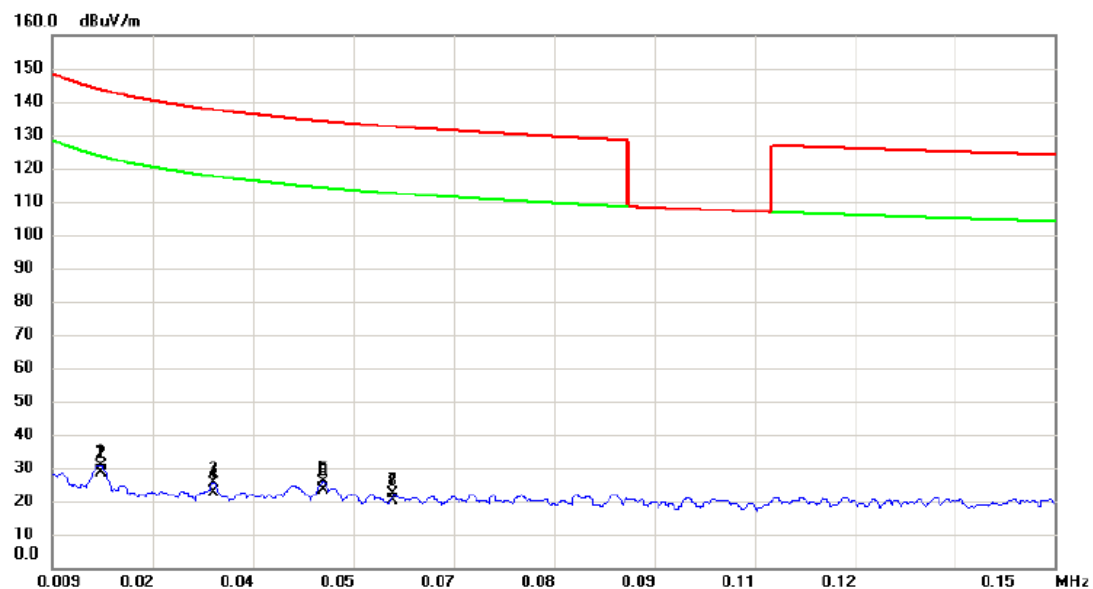
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
		MHz	Level	Factor	ment			
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2.2991	35.10	21.76	56.86	69.54	-12.68	QP
2	*	5.1350	37.56	21.66	59.22	69.54	-10.32	QP

Test Mode: TX Mode(Adapter: SALCOMP)

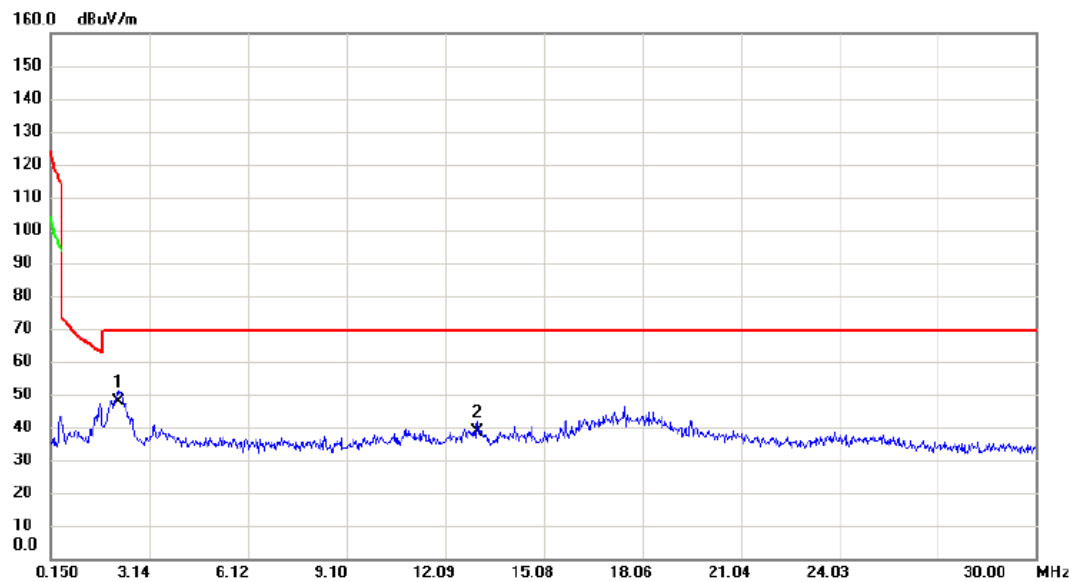
Ant 0°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.0158	9.39	21.40	30.79	143.63	-112.84	peak	
2		0.0158	7.20	21.40	28.60	123.63	-95.03	AVG	
3		0.0316	3.90	21.44	25.34	137.61	-112.27	peak	
4		0.0316	1.10	21.44	22.54	117.61	-95.07	AVG	
5		0.0471	4.09	21.59	25.68	134.14	-108.46	peak	
6	*	0.0471	2.01	21.59	23.60	114.14	-90.54	AVG	
7		0.0568	0.61	21.47	22.08	132.52	-110.44	peak	
8		0.0568	-1.14	21.47	20.33	112.52	-92.19	AVG	

Test Mode:	TX Mode(Adapter: SALCOMP)
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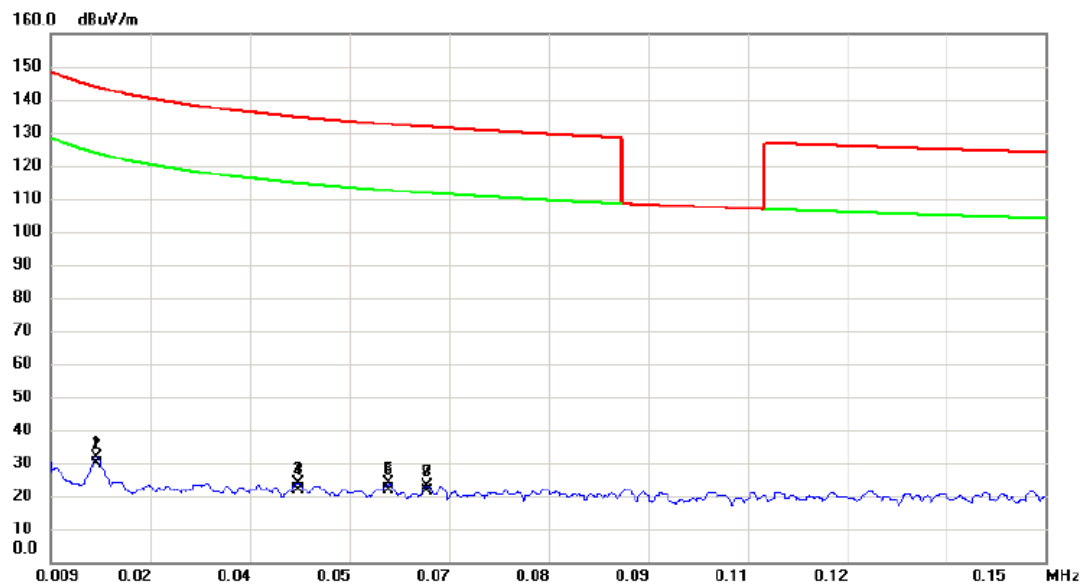
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2.1798	26.10	21.70	47.80	69.54	-21.74	QP	
2		13.0750	16.32	22.18	38.50	69.54	-31.04	QP	

Test Mode: TX Mode(Adapter: SALCOMP)

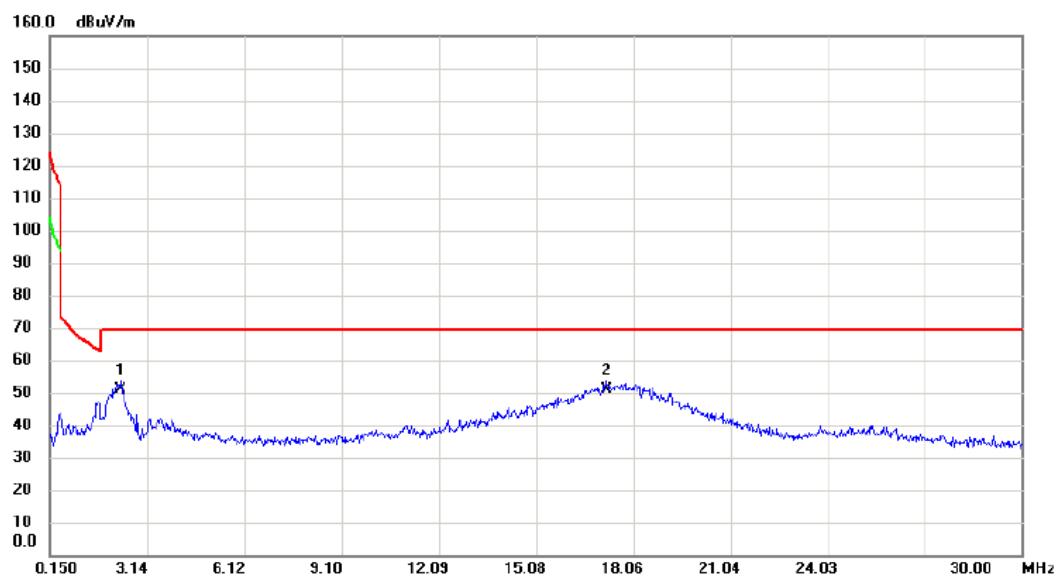
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0154	10.26	21.40	31.66	143.85	-112.19	peak	
2		0.0154	8.42	21.40	29.82	123.85	-94.03	AVG	
3		0.0440	2.24	21.56	23.80	134.74	-110.94	peak	
4		0.0440	0.28	21.56	21.84	114.74	-92.90	AVG	
5		0.0568	2.40	21.47	23.87	132.52	-108.65	peak	
6		0.0568	0.30	21.47	21.77	112.52	-90.75	AVG	
7		0.0623	1.56	21.33	22.89	131.72	-108.83	peak	
8	*	0.0623	0.14	21.33	21.47	111.72	-90.25	AVG	

Test Mode:	TX Mode(Adapter: SALCOMP)
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Ant 90°

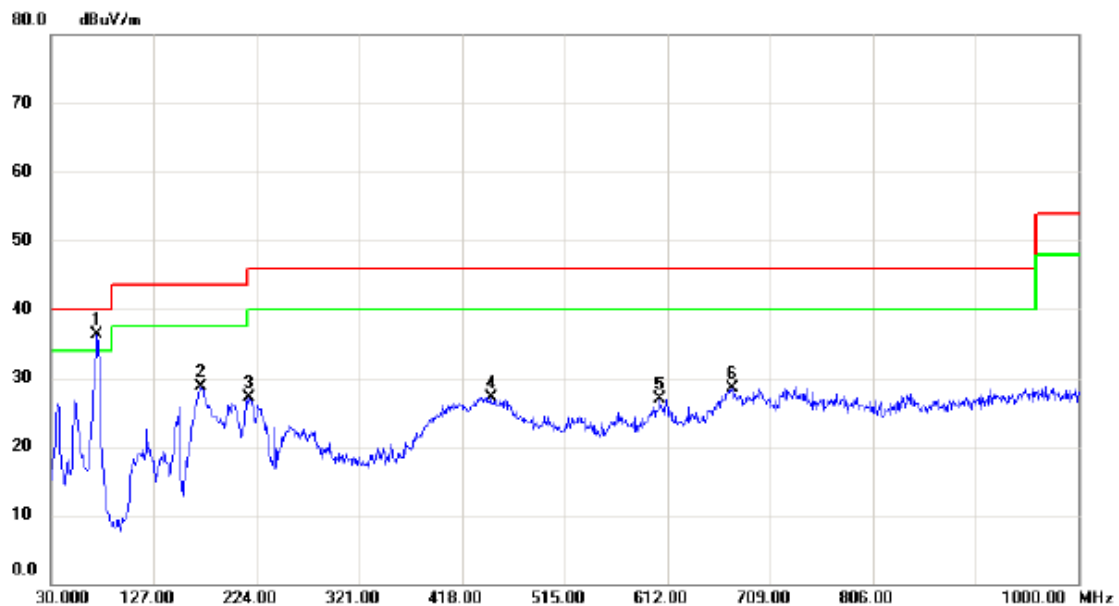


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2.3290	29.36	21.77	51.13	69.54	-18.41	QP	
2		17.2540	28.45	22.52	50.97	69.54	-18.57	QP	

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

Test Mode: TX 2402MHz _CH00_1Mbps(Adapter: BYD)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	73.6500	52.10	-15.87	36.23	40.00	-3.77	peak	
2		171.6200	42.16	-13.38	28.78	43.50	-14.72	peak	
3		217.2100	42.76	-15.65	27.11	46.00	-18.89	peak	
4		445.1600	34.97	-7.88	27.09	46.00	-18.91	peak	
5		605.2100	32.10	-5.13	26.97	46.00	-19.03	peak	
6		673.1100	32.62	-4.07	28.55	46.00	-17.45	peak	

Test Mode: TX 2402MHz _CH00_1Mbps(Adapter: BYD)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		73.6500	40.00	-15.87	24.13	40.00	-15.87	peak	
2		167.7400	40.78	-13.11	27.67	43.50	-15.83	peak	
3	*	275.4100	45.65	-12.14	33.51	46.00	-12.49	peak	
4		434.4900	39.71	-8.20	31.51	46.00	-14.49	peak	
5		693.4800	34.47	-3.86	30.61	46.00	-15.39	peak	
6		766.2300	32.94	-1.89	31.05	46.00	-14.95	peak	

Test Mode: TX 2480MHz _CH78_1Mbps (Adapter: BYD)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	73.6500	51.44	-15.87	35.57	40.00	-4.43	peak	
2		169.6800	42.13	-13.22	28.91	43.50	-14.59	peak	
3		217.2100	43.70	-15.65	28.05	46.00	-17.95	peak	
4		440.3100	35.40	-8.01	27.39	46.00	-18.61	peak	
5		599.3900	31.50	-5.24	26.26	46.00	-19.74	peak	
6		699.3000	32.64	-3.79	28.85	46.00	-17.15	peak	

Test Mode: TX 2480MHz _CH78_1Mbps (Adapter: BYD)

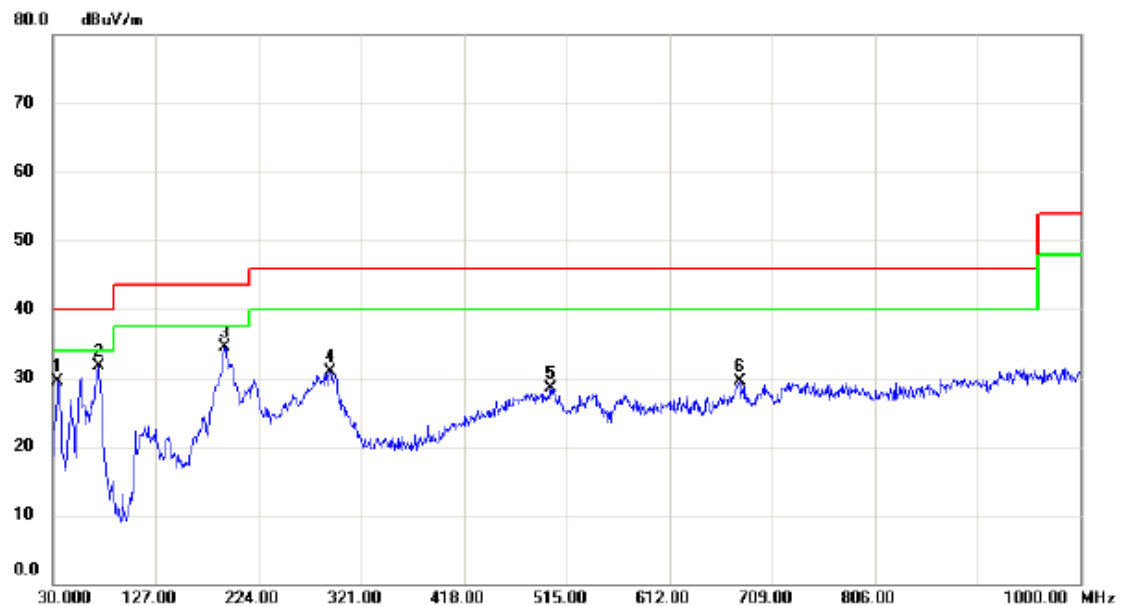
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		73.6500	40.94	-15.87	25.07	40.00	-14.93	peak	
2		168.7100	40.84	-13.16	27.68	43.50	-15.82	peak	
3	*	273.4700	45.33	-12.24	33.09	46.00	-12.91	peak	
4		393.7500	41.45	-9.35	32.10	46.00	-13.90	peak	
5		673.1100	34.23	-4.07	30.16	46.00	-15.84	peak	
6		767.2000	33.11	-1.89	31.22	46.00	-14.78	peak	

Test Mode: TX 2402MHz_CH00_1Mbps (Adapter: SALCOMP)

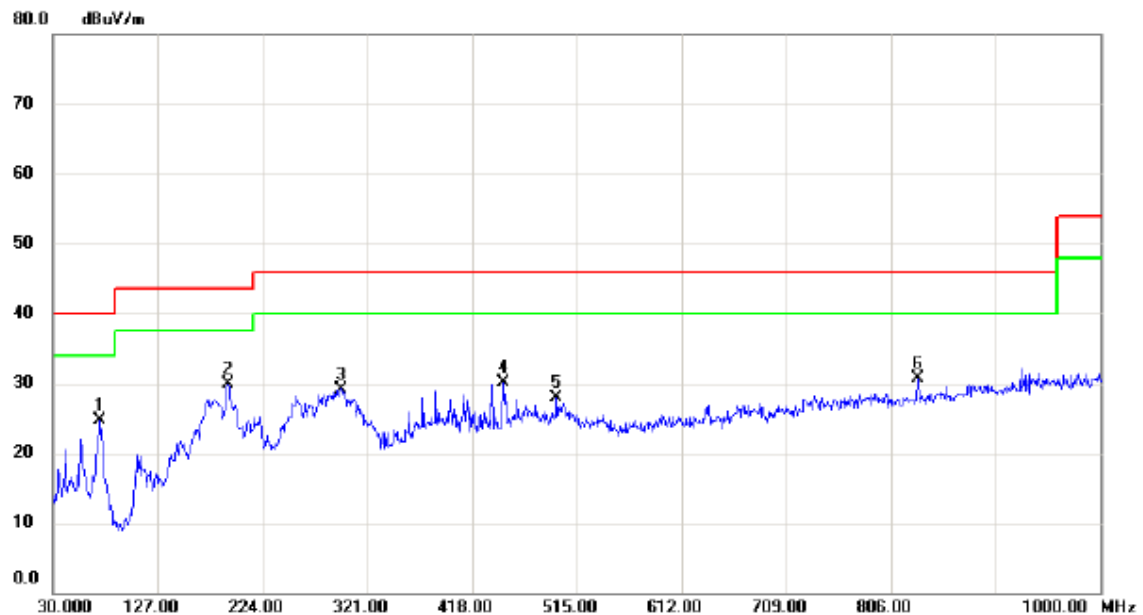
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		34.8500	44.10	-14.57	29.53	40.00	-10.47	peak	
2	*	72.6800	47.31	-15.67	31.64	40.00	-8.36	peak	
3		191.9900	49.53	-15.03	34.50	43.50	-9.00	peak	
4		291.9000	42.44	-11.59	30.85	46.00	-15.15	peak	
5		499.4800	35.64	-7.17	28.47	46.00	-17.53	peak	
6		677.9600	33.61	-4.02	29.59	46.00	-16.41	peak	

Test Mode: TX 2402MHz_CH00_1Mbps (Adapter: SALCOMP)

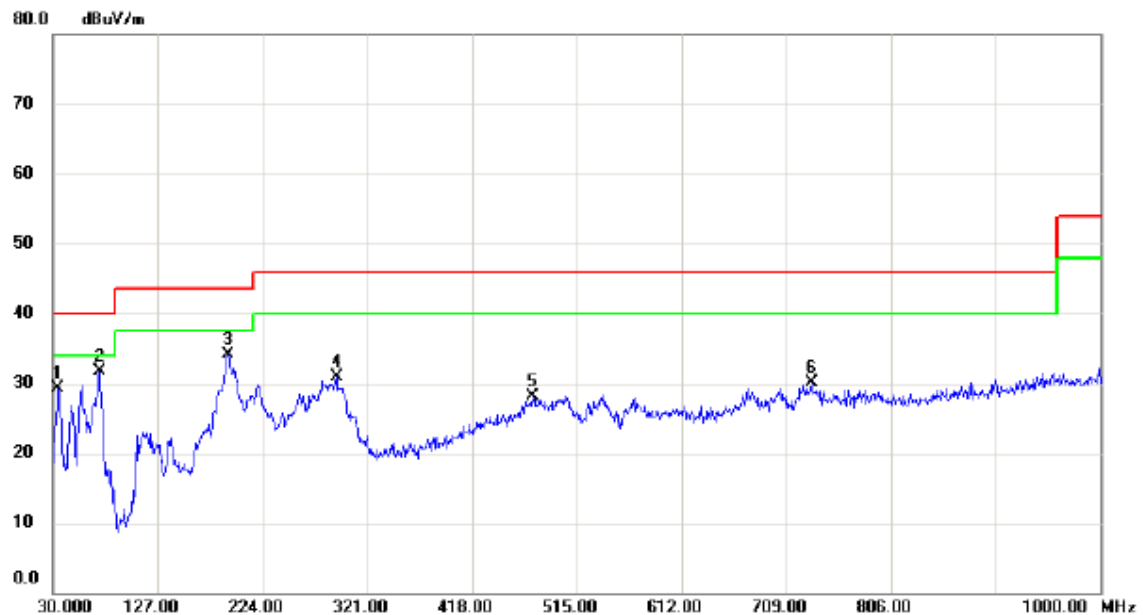
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		73.6500	40.56	-15.87	24.69	40.00	-15.31	peak	
2	*	191.9900	44.91	-15.03	29.88	43.50	-13.62	peak	
3		296.7500	40.65	-11.45	29.20	46.00	-16.80	peak	
4		447.1000	37.89	-7.82	30.07	46.00	-15.93	peak	
5		496.5700	35.11	-7.19	27.92	46.00	-18.08	peak	
6		831.2200	31.84	-1.14	30.70	46.00	-15.30	peak	

Test Mode: TX 2480MHz_CH78_1Mbps (Adapter: SALCOMP)

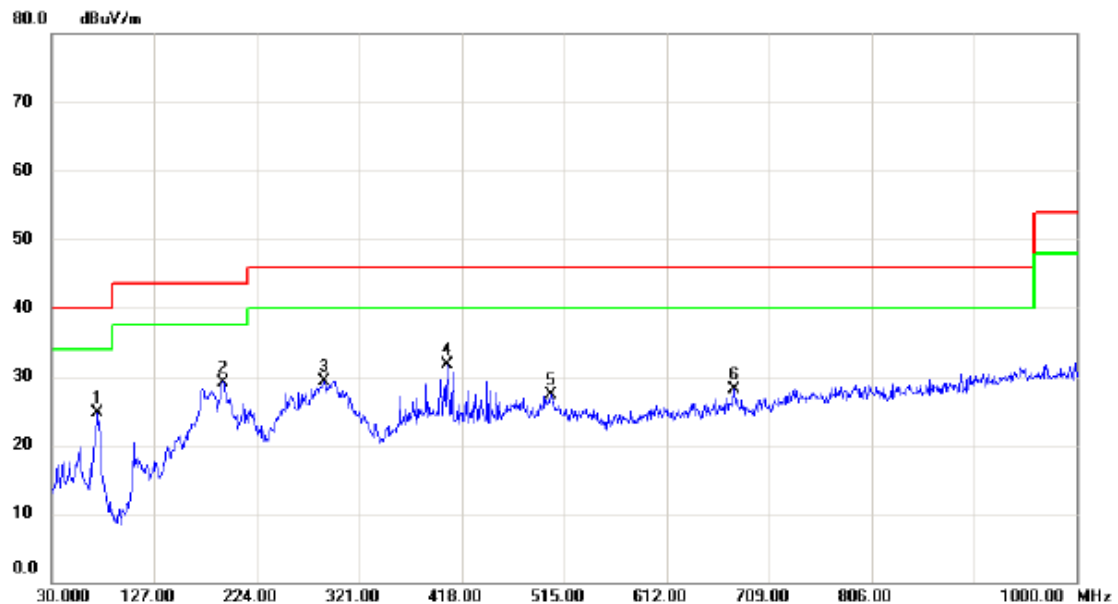
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		34.8500	43.84	-14.57	29.27	40.00	-10.73	peak	
2	*	72.6800	47.44	-15.67	31.77	40.00	-8.23	peak	
3		191.9900	49.16	-15.03	34.13	43.50	-9.37	peak	
4		292.8700	42.41	-11.55	30.86	46.00	-15.14	peak	
5		474.2600	35.56	-7.46	28.10	46.00	-17.90	peak	
6		733.2500	32.69	-2.60	30.09	46.00	-15.91	peak	

Test Mode: TX 2480MHz_CH78_1Mbps (Adapter: SALCOMP)

Horizontal

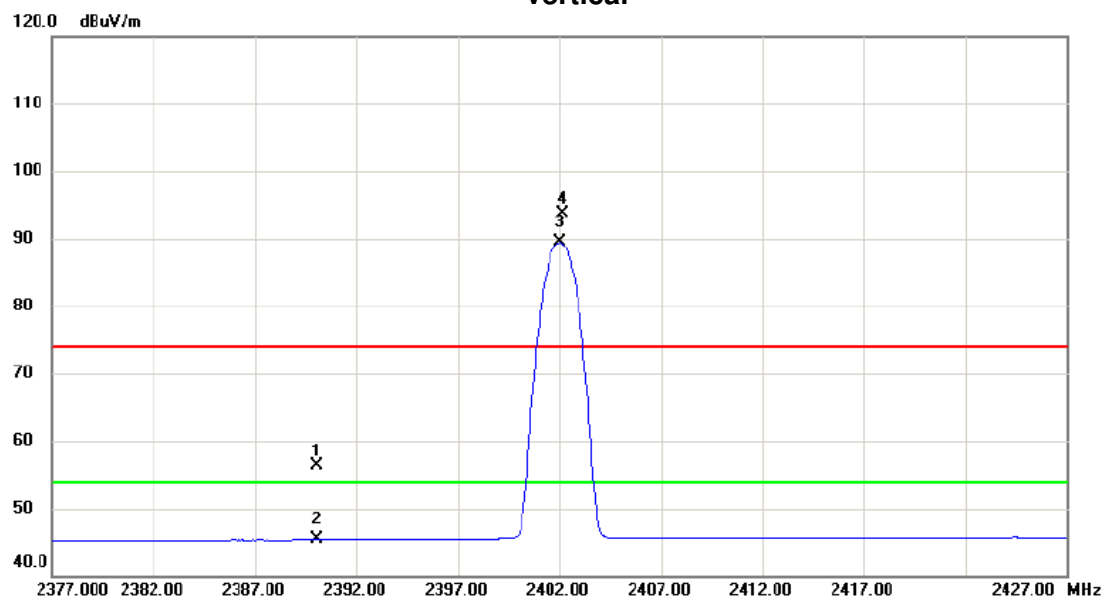


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		73.6500	40.66	-15.87	24.79	40.00	-15.21	peak	
2		191.9900	44.23	-15.03	29.20	43.50	-14.30	peak	
3		288.0200	41.04	-11.70	29.34	46.00	-16.66	peak	
4	*	404.4200	40.79	-9.07	31.72	46.00	-14.28	peak	
5		502.3900	34.38	-7.13	27.25	46.00	-18.75	peak	
6		676.0200	32.13	-4.04	28.09	46.00	-17.91	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Test Mode : TX 2402MHz _CH00_1Mbps

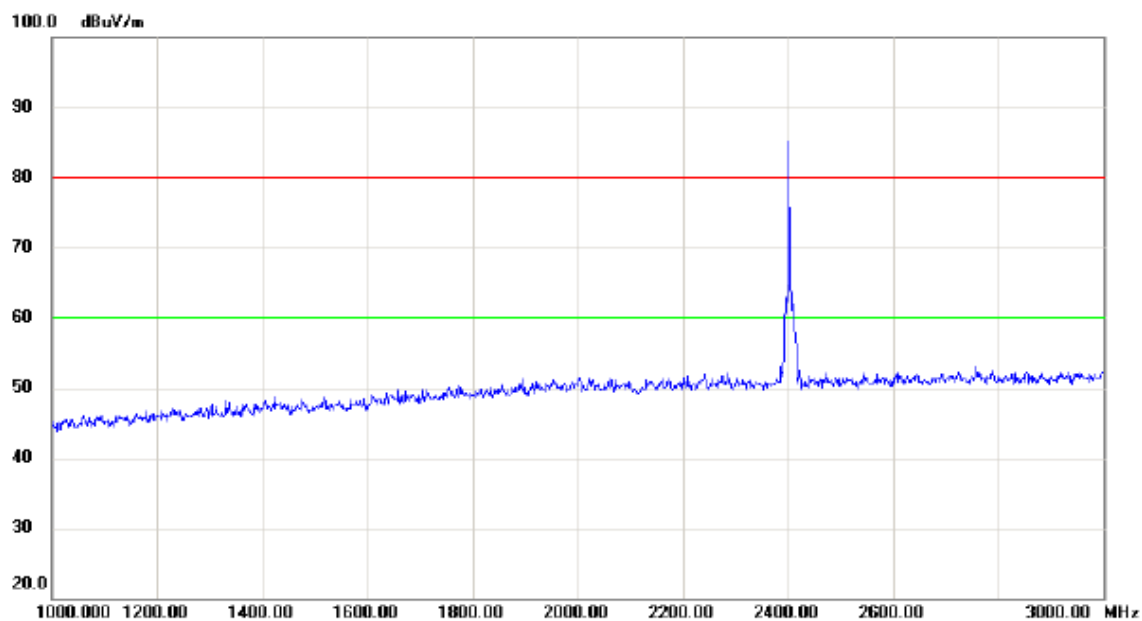
Vertical



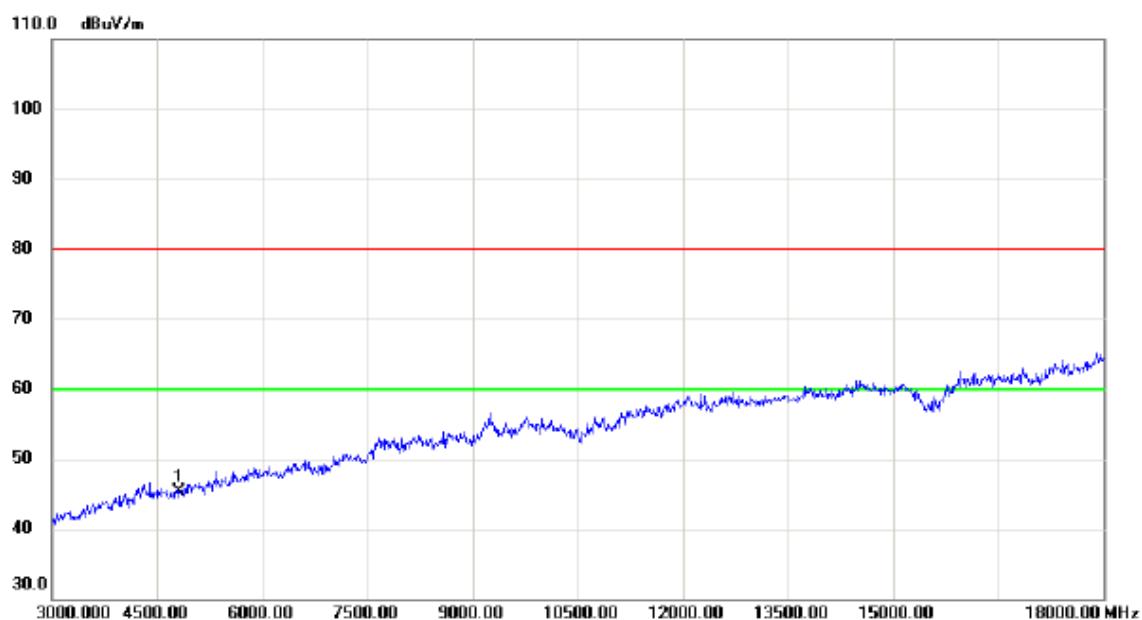
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.57	32.68	56.25	74.00	-17.75	peak	
2		2390.000	12.74	32.68	45.42	54.00	-8.58	AVG	
3	*	2402.000	56.73	32.69	89.42	54.00	35.42	AVG	No Limit
4	X	2402.150	61.01	32.69	93.70	74.00	19.70	peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Vertical



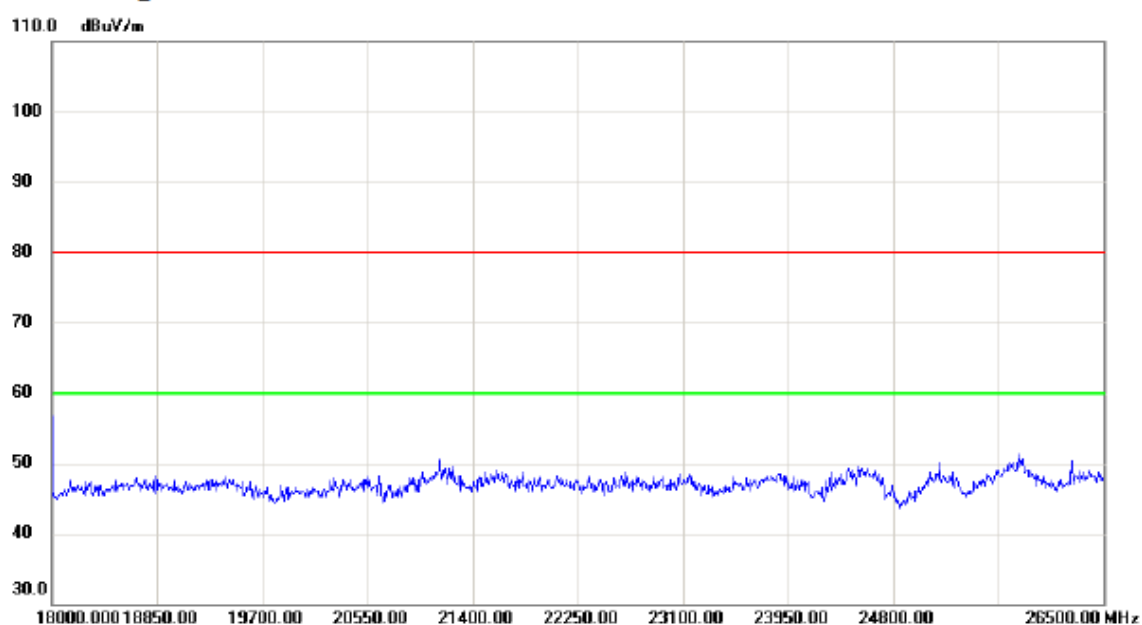
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	4804.000	39.42	5.81	45.23	80.00	-34.77	peak	

Test Mode :	TX 2402MHz_CH00_1Mbps
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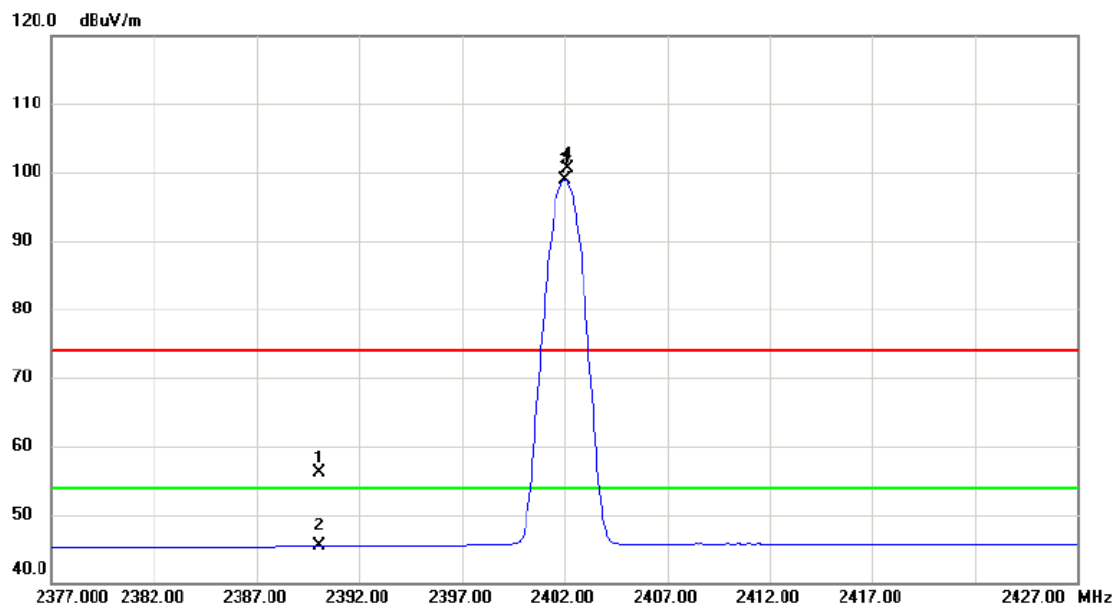
Vertical



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

Test Mode : TX 2402MHz _CH00_1Mbps

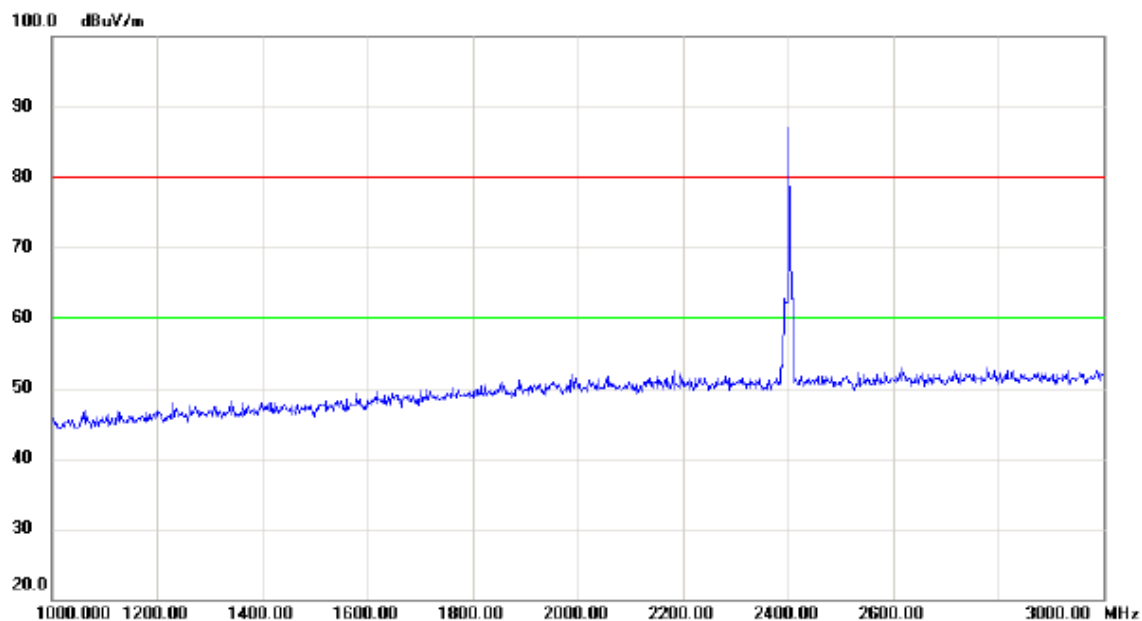
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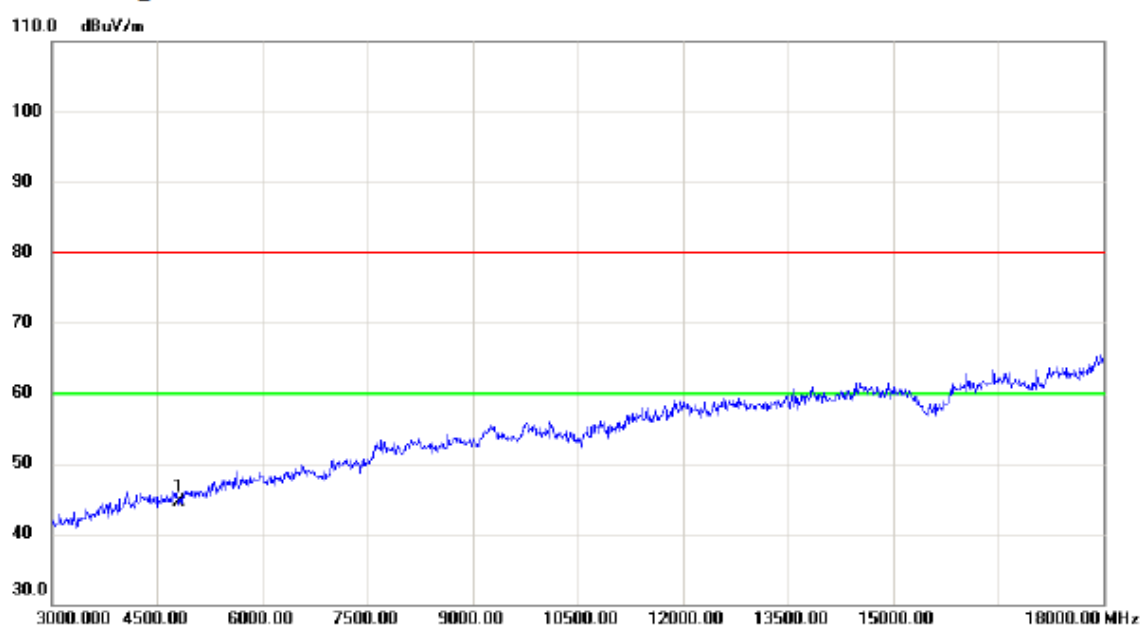
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.50	32.68	56.18	74.00	-17.82	peak	
2		2390.000	12.74	32.68	45.42	54.00	-8.58	AVG	
3	*	2402.000	66.27	32.69	98.96	54.00	44.96	AVG	No Limit
4	X	2402.150	67.85	32.69	100.54	74.00	26.54	peak	No Limit

Test Mode : TX 2402MHz _CH00_1Mbps

Horizontal



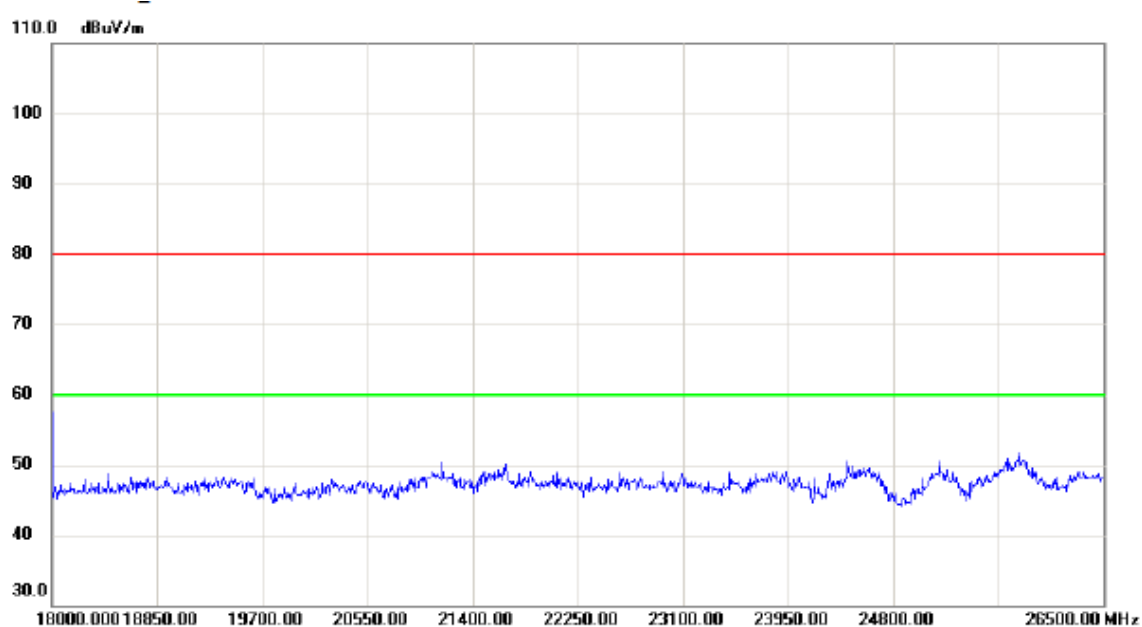
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4804.000	38.75	5.81	44.56	80.00	-35.44	peak	

Test Mode :	TX 2402MHz _CH00_1Mbps
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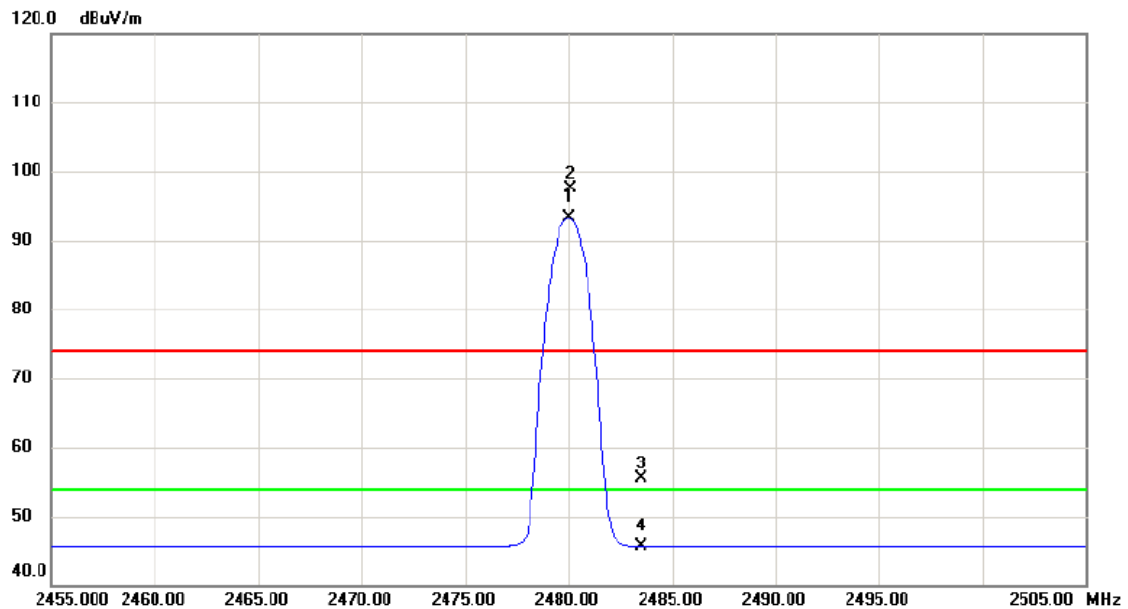
Horizontal



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

Test Mode : TX 2480MHz _CH78_1Mbps

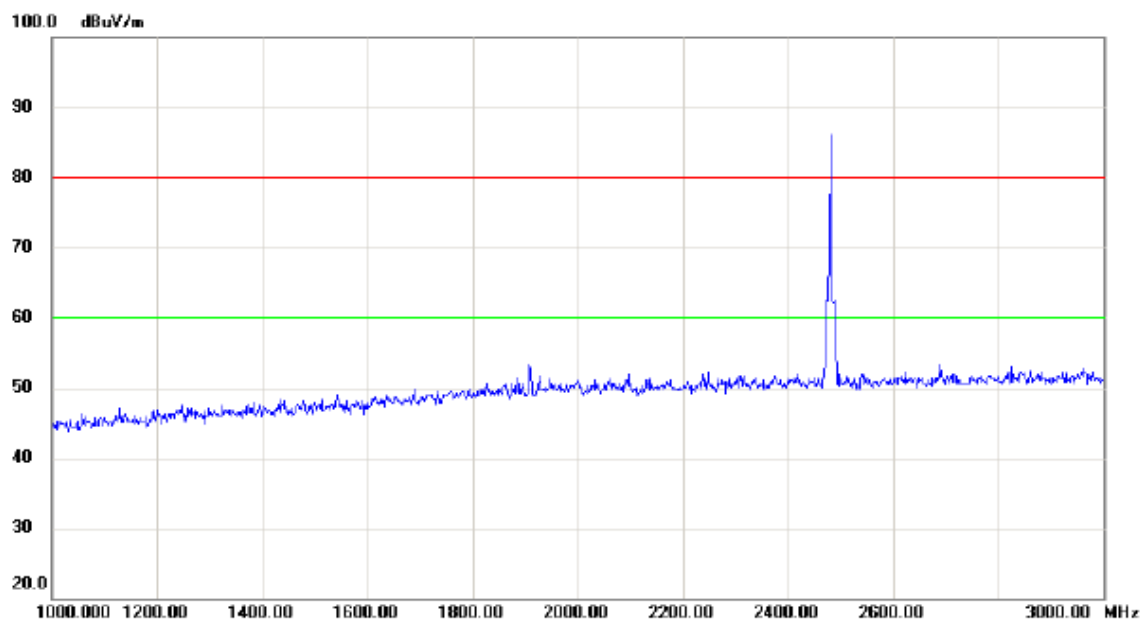
Vertical



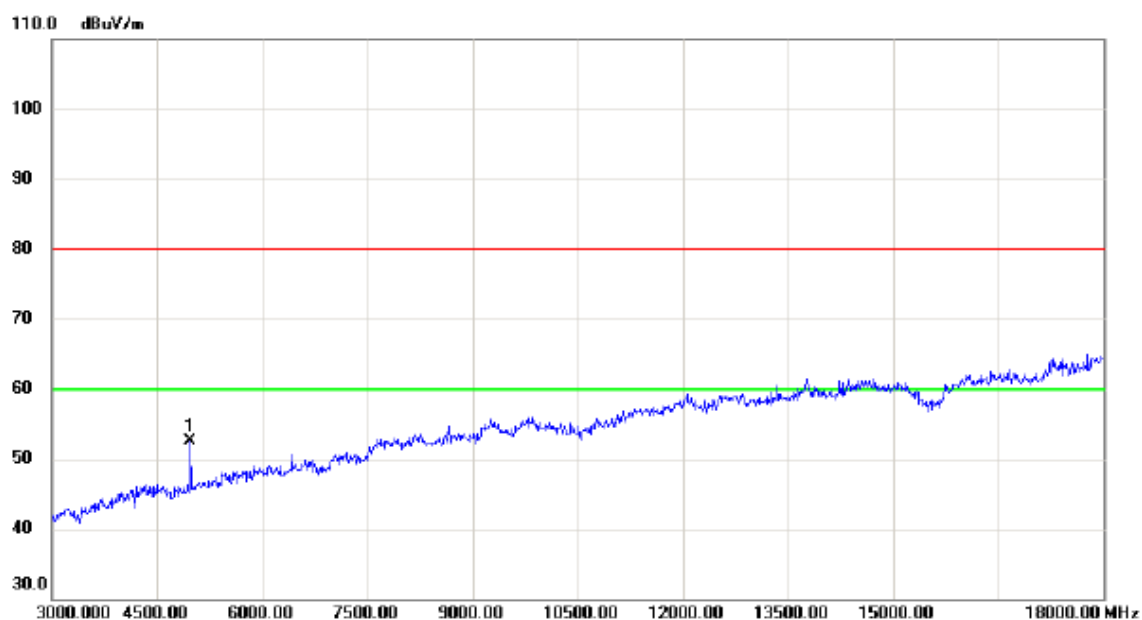
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2480.000	60.41	32.80	93.21	54.00	39.21	AVG	No Limit
2	X	2480.100	64.66	32.80	97.46	74.00	23.46	peak	No Limit
3		2483.500	22.79	32.81	55.60	74.00	-18.40	peak	
4		2483.500	12.85	32.81	45.66	54.00	-8.34	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Vertical



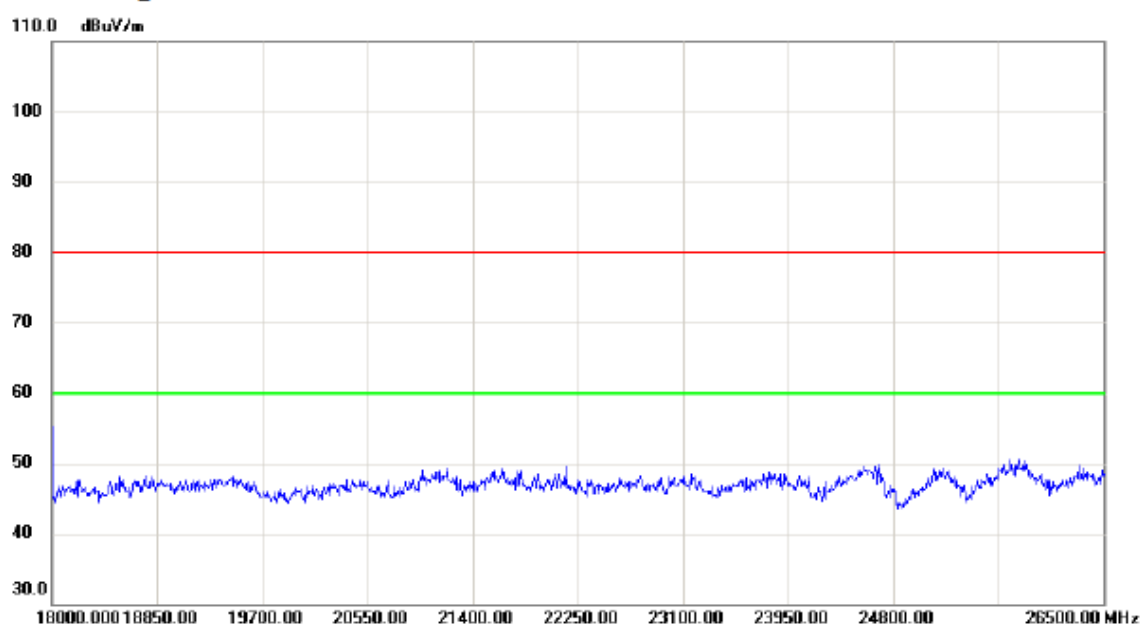
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4960.000	46.37	6.23	52.60	80.00	-27.40	peak	

Test Mode :	TX 2480MHz _CH78_1Mbps
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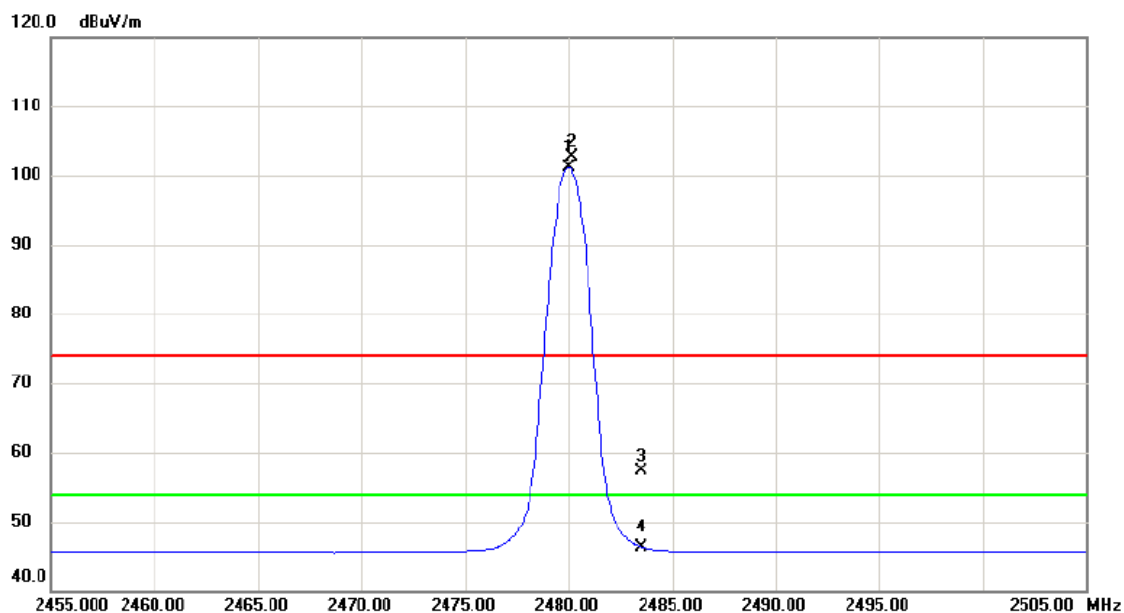
Vertical



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

Test Mode : TX 2480MHz _CH78_1Mbps

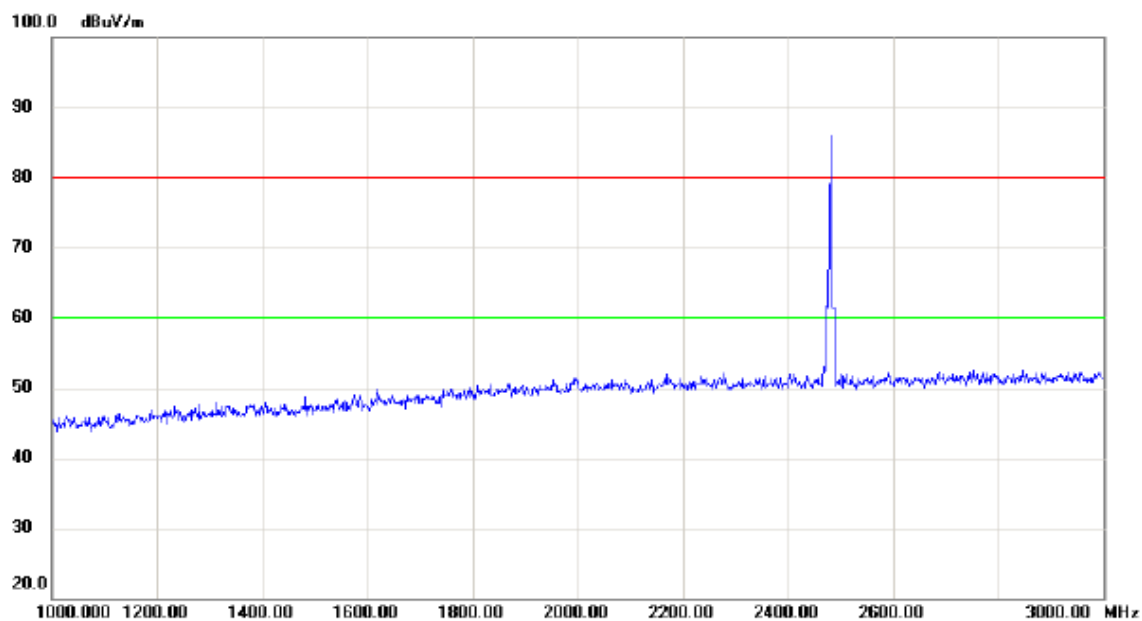
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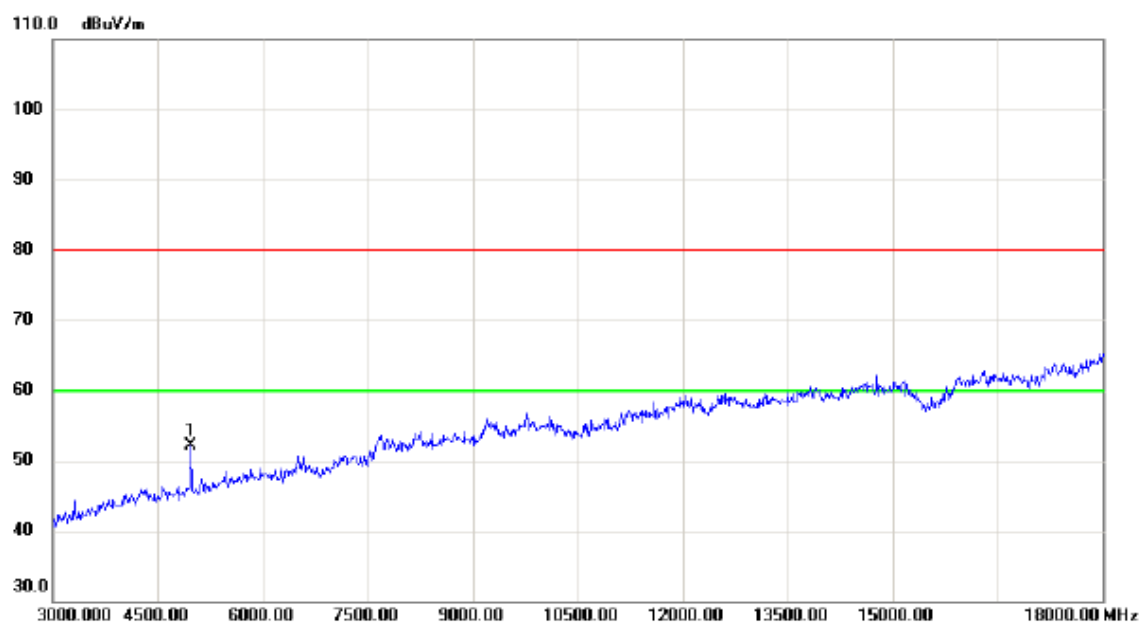
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2480.000	68.35	32.80	101.15	54.00	47.15	AVG	No Limit
2	X	2480.150	69.83	32.80	102.63	74.00	28.63	peak	No Limit
3		2483.500	24.56	32.81	57.37	74.00	-16.63	peak	
4		2483.500	13.59	32.81	46.40	54.00	-7.60	AVG	

Test Mode : TX 2480MHz _CH78_1Mbps

Horizontal



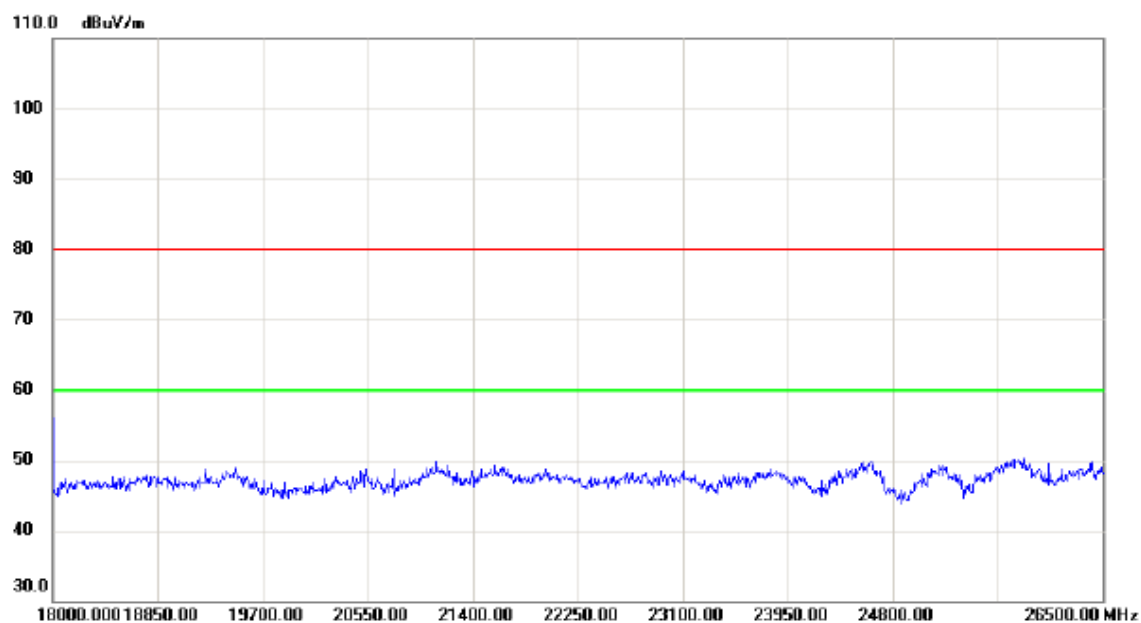
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		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4960.000	45.82	6.23	52.05	80.00	-27.95	peak	

Test Mode :	TX 2480MHz _CH78_1Mbps
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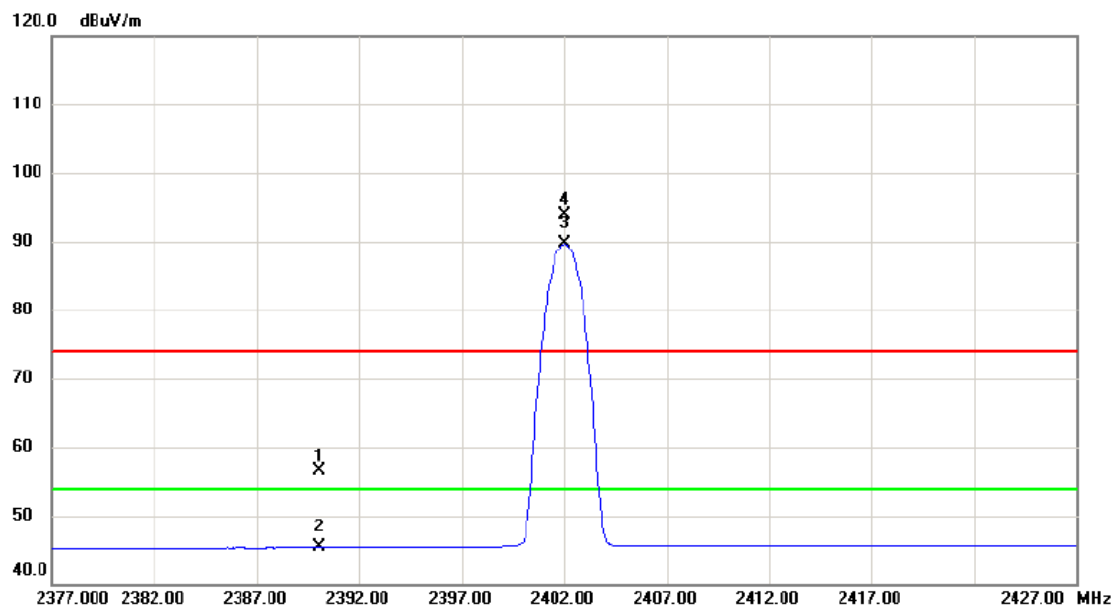
Horizontal



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

Test Mode : TX 2402MHz _CH00_3Mbps

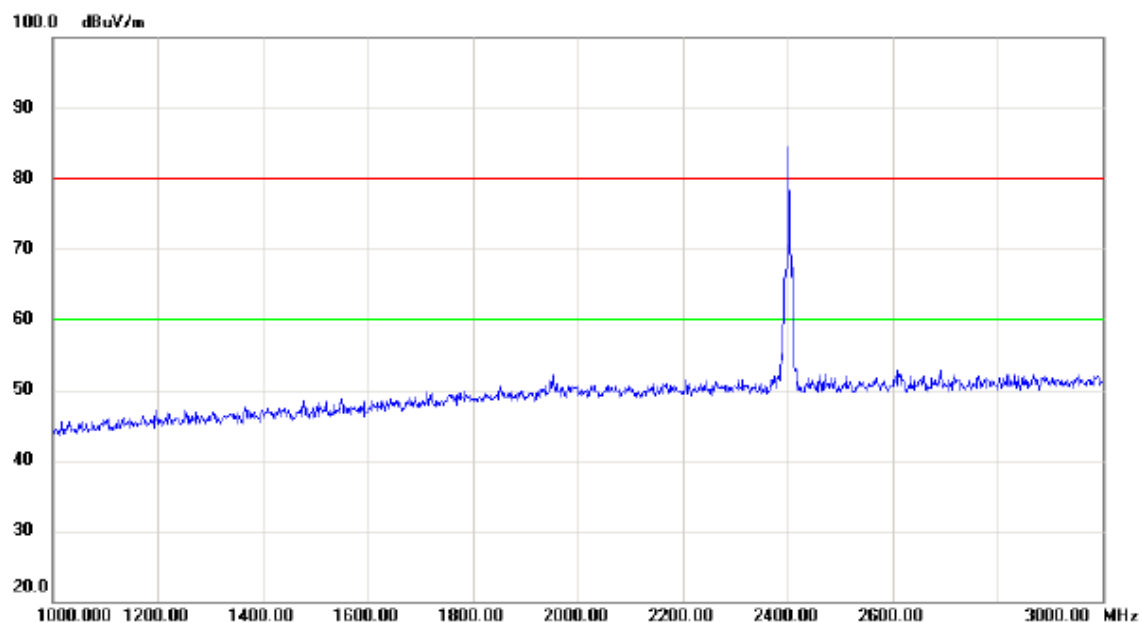
Vertical



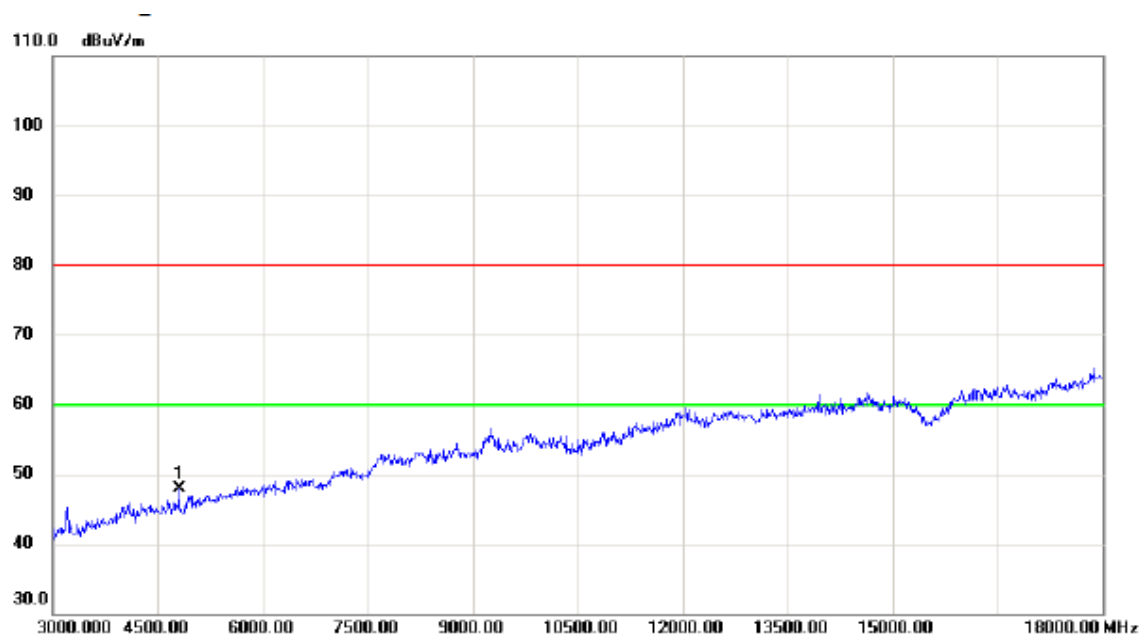
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	23.73	32.68	56.41	74.00	-17.59	peak	
2		2390.000	12.74	32.68	45.42	54.00	-8.58	AVG	
3	*	2402.000	56.94	32.69	89.63	54.00	35.63	AVG	No Limit
4	X	2402.050	61.13	32.69	93.82	74.00	19.82	peak	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

Vertical



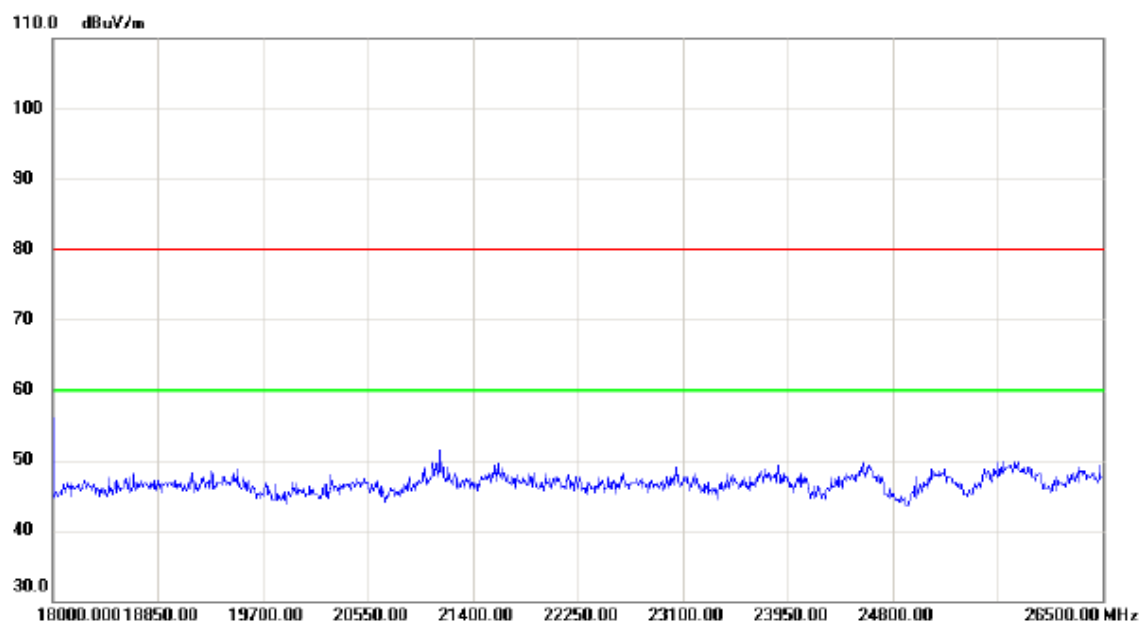
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4800.000	42.02	5.80	47.82	80.00	-32.18	peak	

Test Mode :	TX 2402MHz _CH00_3Mbps
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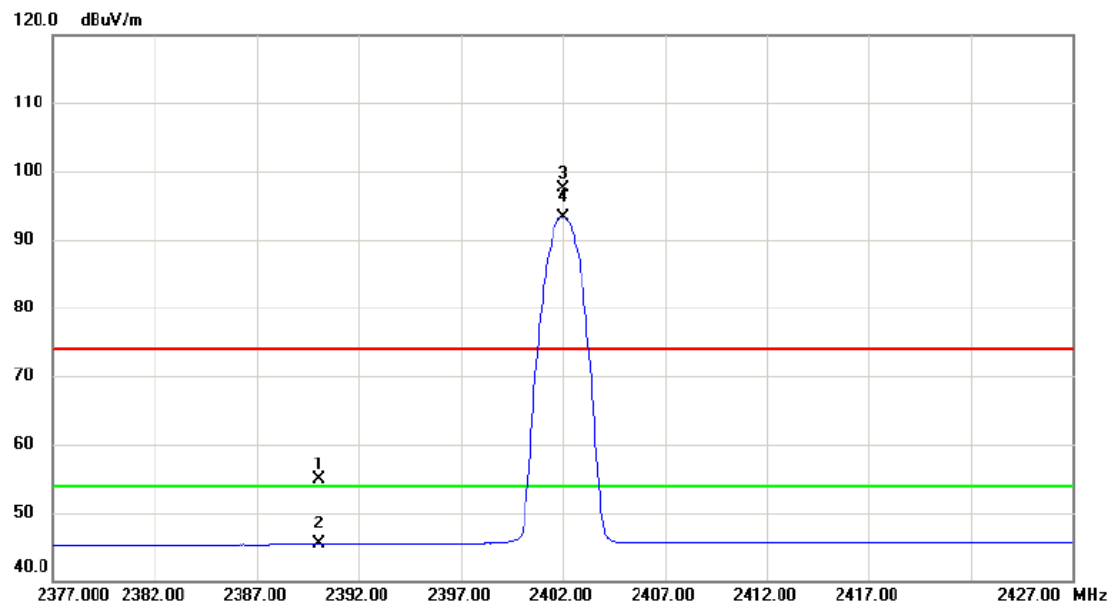
Vertical



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

Test Mode : TX 2402MHz _CH00_3Mbps

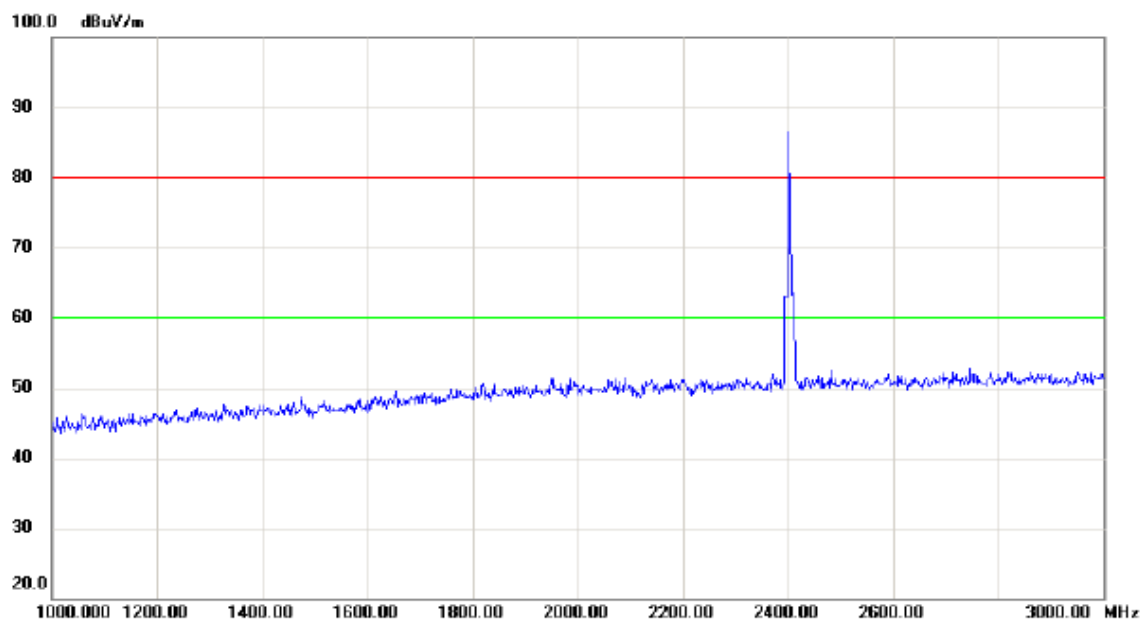
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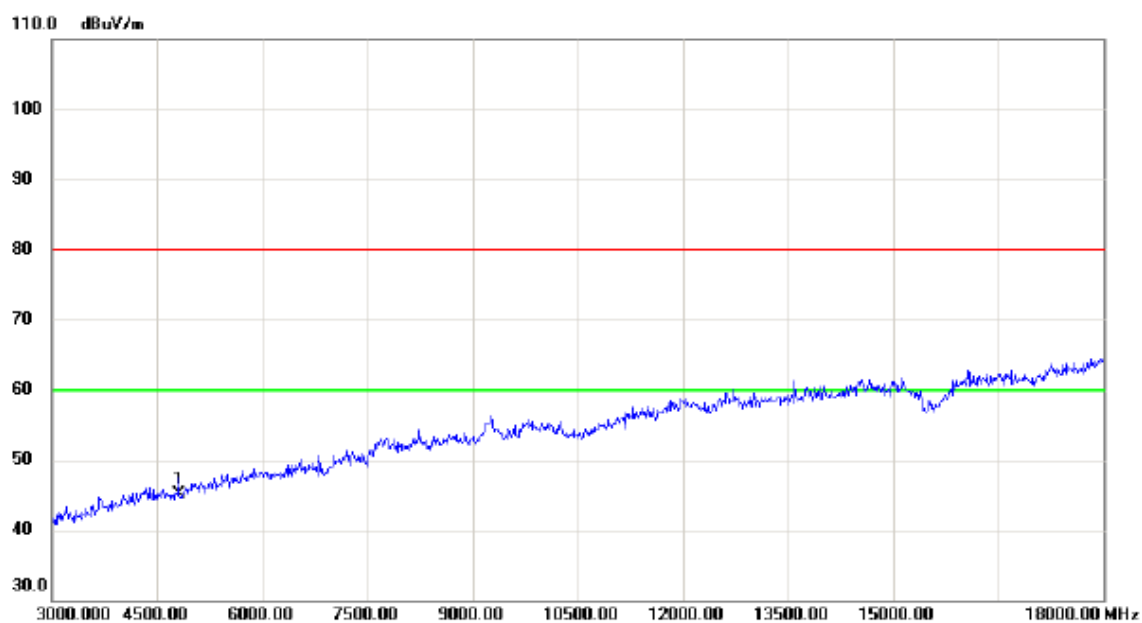
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	22.13	32.68	54.81	74.00	-19.19	peak	
2		2390.000	12.74	32.68	45.42	54.00	-8.58	AVG	
3	X	2402.000	64.87	32.69	97.56	74.00	23.56	peak	No Limit
4	*	2402.000	60.65	32.69	93.34	54.00	39.34	AVG	No Limit

Test Mode : TX 2402MHz _CH00_3Mbps

Horizontal



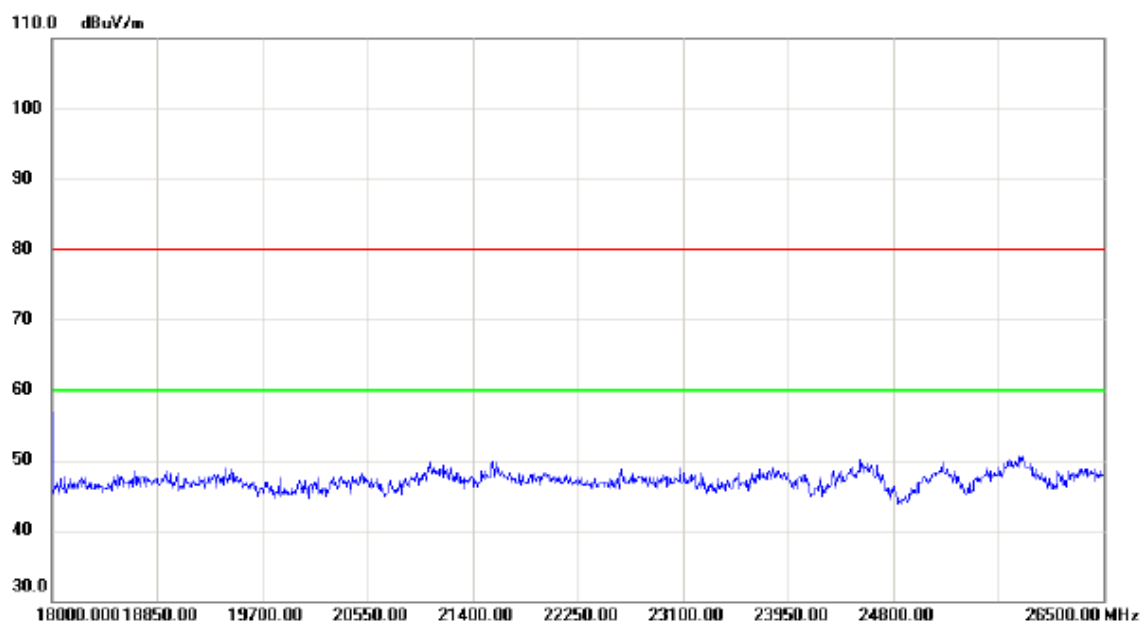
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4804.000	39.30	5.81	45.11	80.00	-34.89	peak	

Test Mode :	TX 2402MHz _CH00_3Mbps
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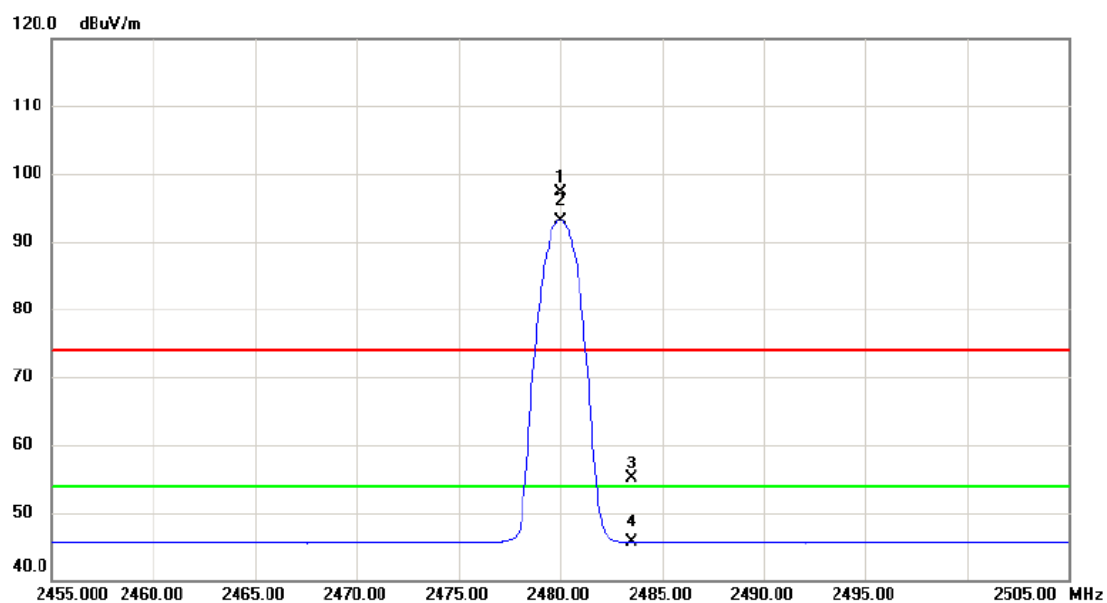
Horizontal



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

Test Mode : TX 2480MHz _CH78_3Mbps

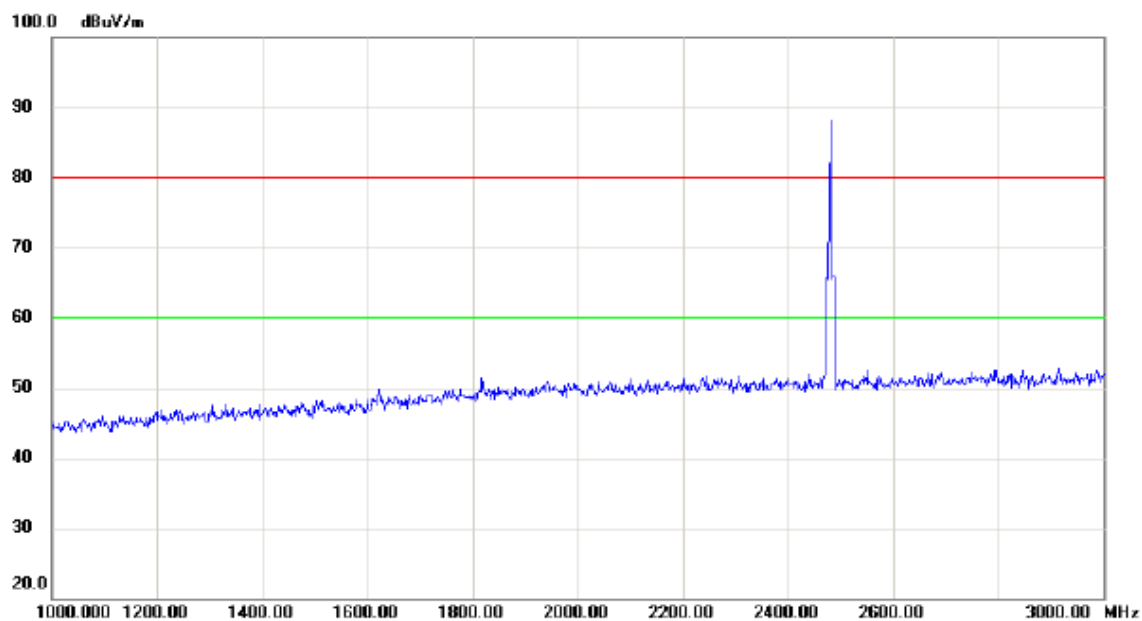
Vertical



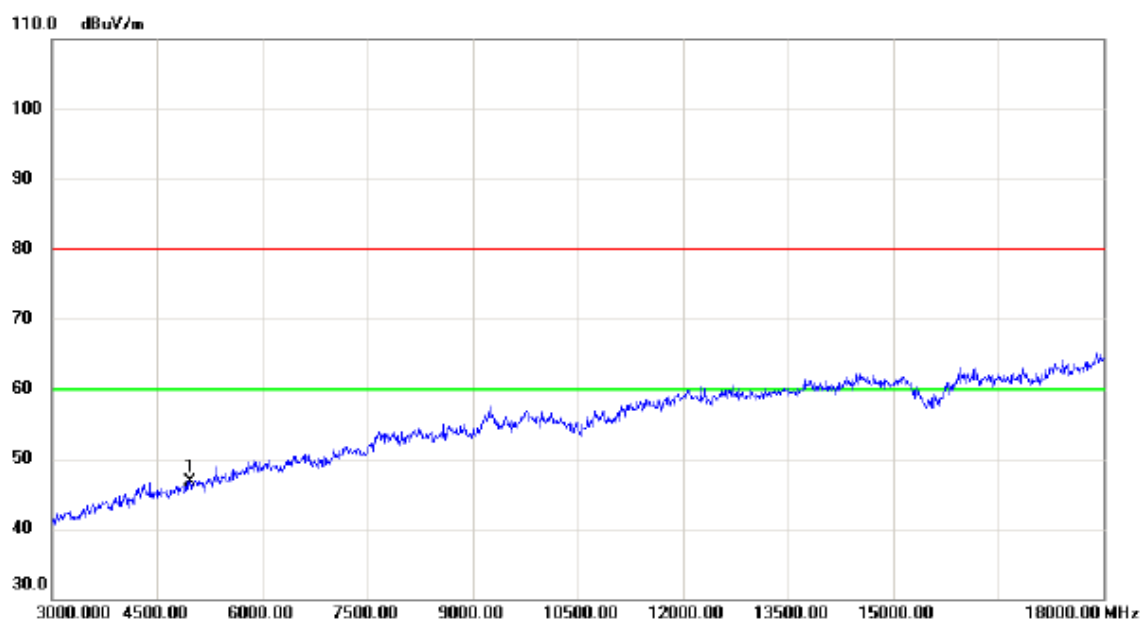
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2480.000	64.49	32.80	97.29	74.00	23.29	peak	No Limit
2	*	2480.000	60.34	32.80	93.14	54.00	39.14	AVG	No Limit
3		2483.500	22.28	32.81	55.09	74.00	-18.91	peak	
4		2483.500	12.85	32.81	45.66	54.00	-8.34	AVG	

Test Mode : TX 2480MHz _CH78_3Mbps

Vertical



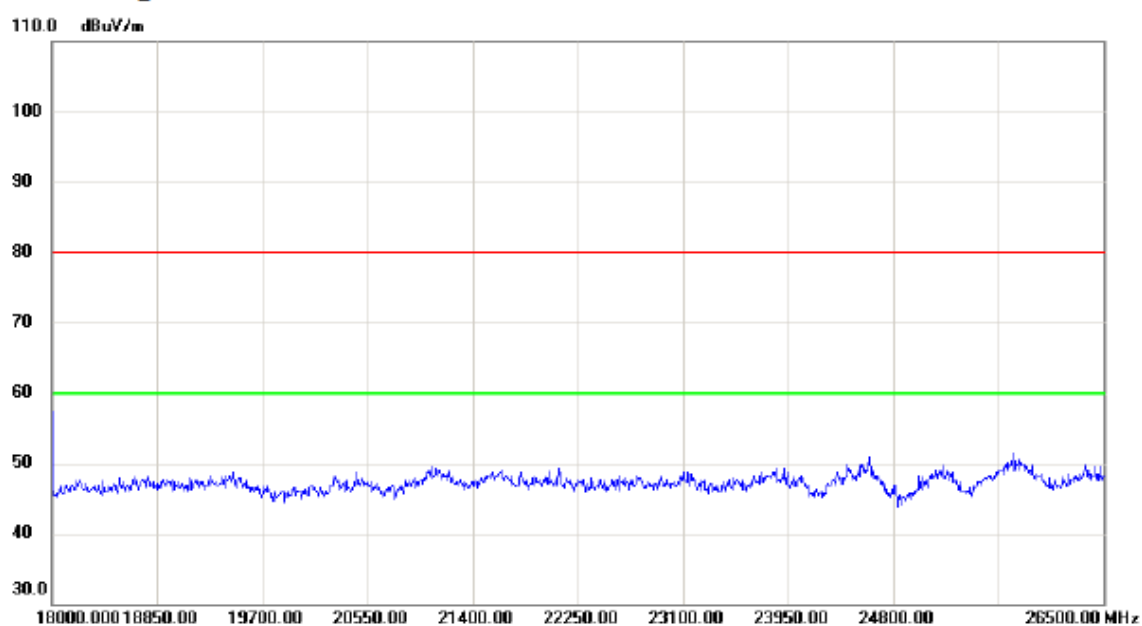
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4960.000	40.57	6.23	46.80	80.00	-33.20	peak	

Test Mode :	TX 2480MHz _CH78_3Mbps
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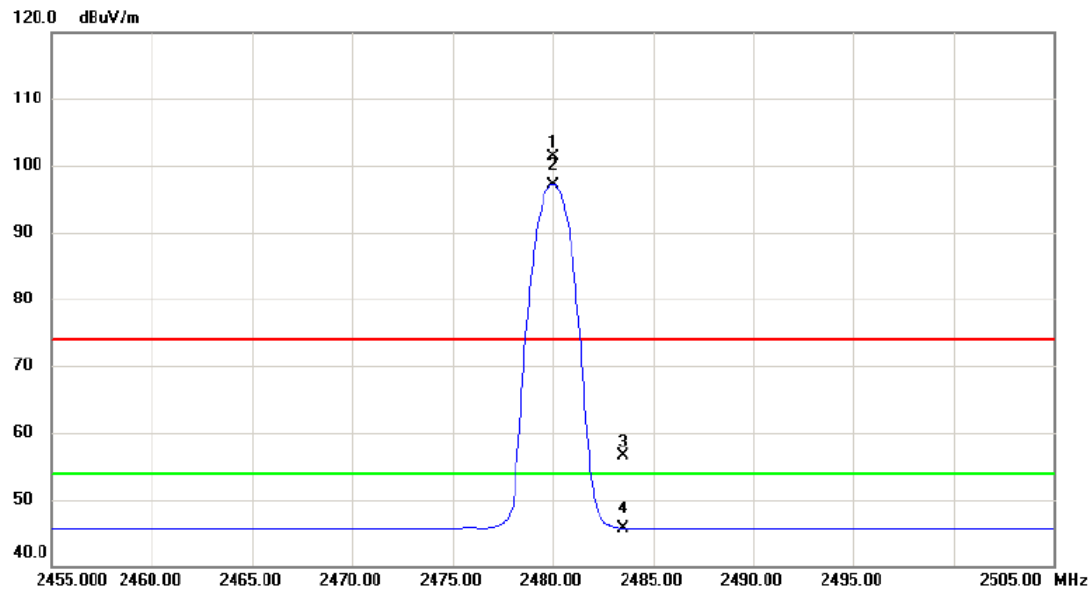
Vertical



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

Test Mode : TX 2480MHz _CH78_3Mbps

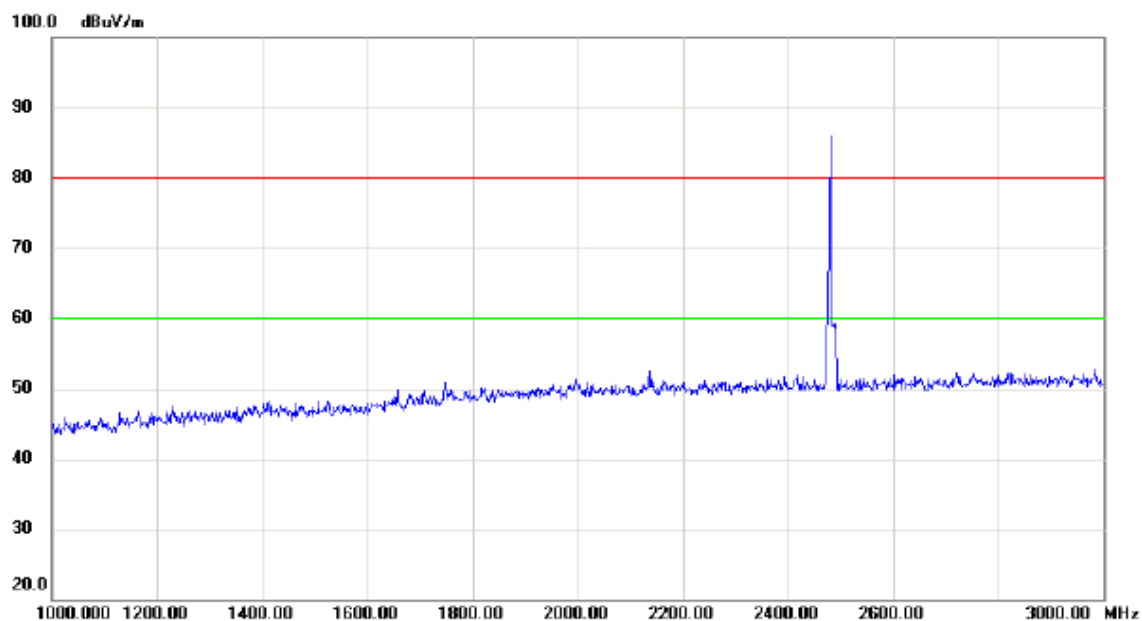
Horizontal



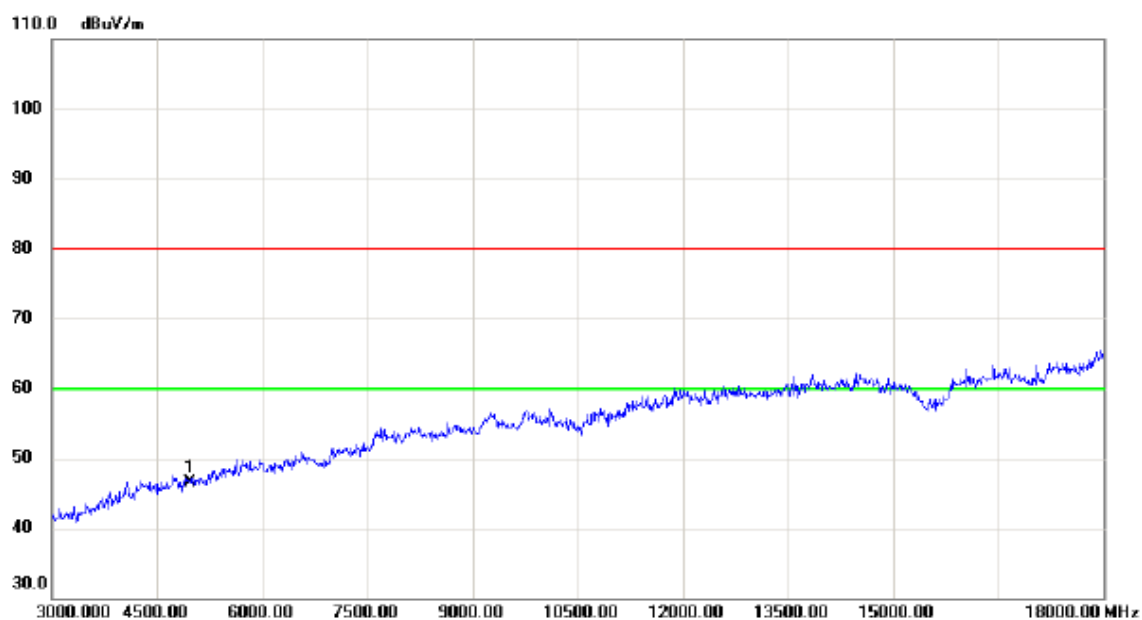
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2480.000	68.55	32.80	101.35	74.00	27.35	peak	No Limit
2	*	2480.000	64.37	32.80	97.17	54.00	43.17	AVG	No Limit
3		2483.500	23.64	32.81	56.45	74.00	-17.55	peak	
4		2483.500	12.94	32.81	45.75	54.00	-8.25	AVG	

Test Mode : TX 2480MHz_CH78_3Mbps

Horizontal



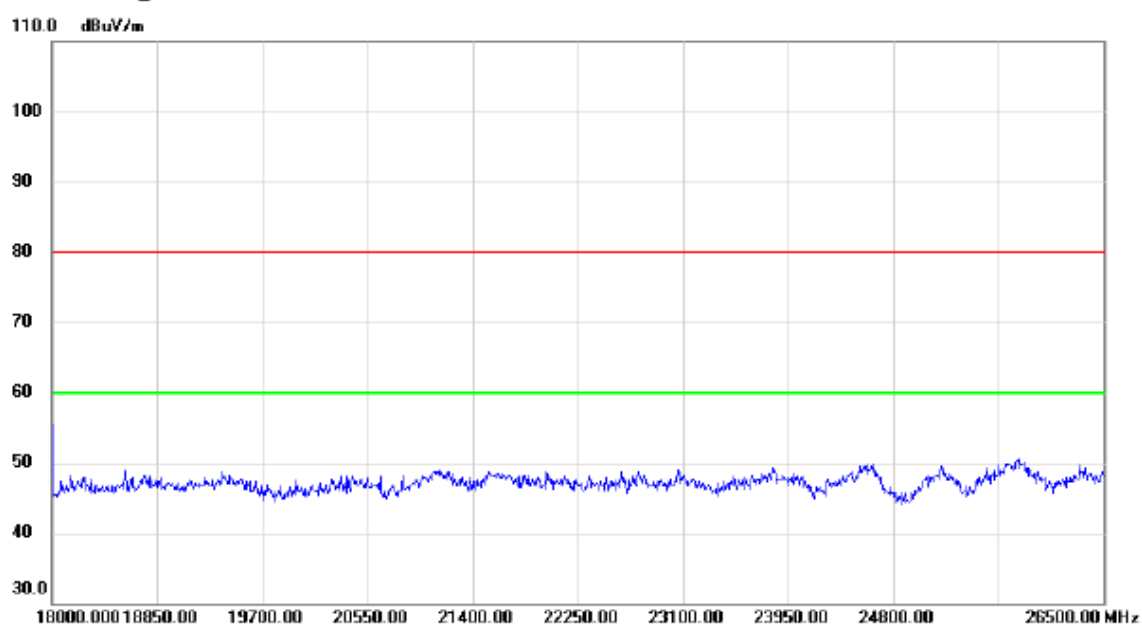
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4960.000	40.31	6.23	46.54	80.00	-33.46	peak	

Test Mode :	TX 2480MHz _CH78_3Mbps
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Horizontal

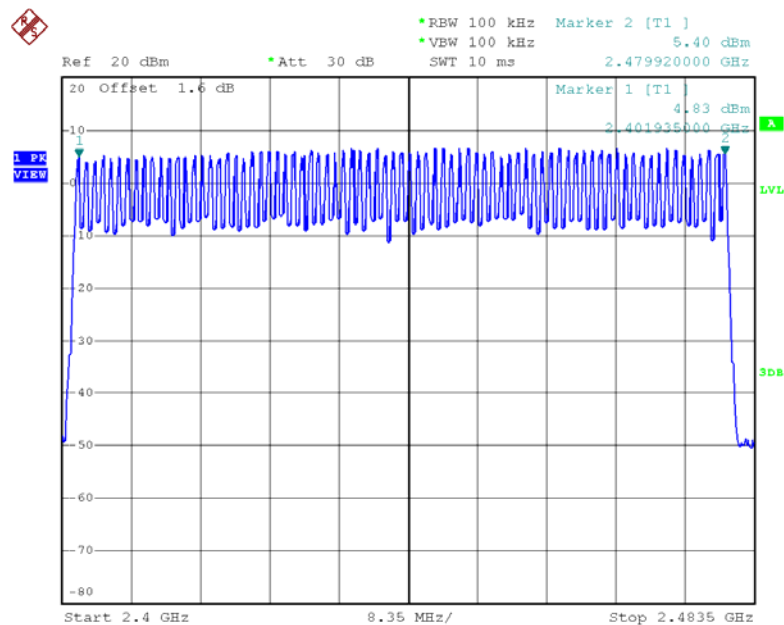


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment

ATTACHMENT E - NUMBER OF HOPPING CHANNEL

Test Mode	Hopping Mode_1Mbps
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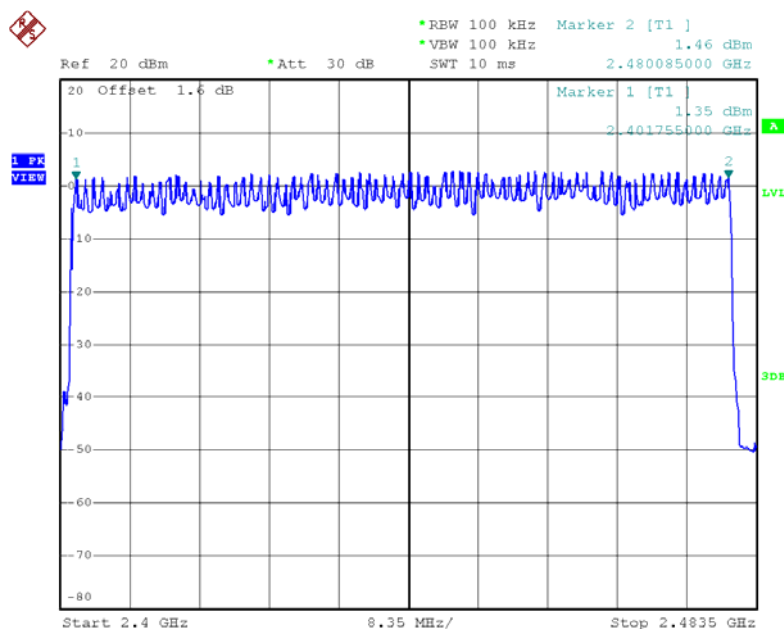
Number of Hopping Channel	79
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Date: 19.MAR.2016 15:45:10

Test Mode	Hopping Mode_3Mbps
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Number of Hopping Channel	79
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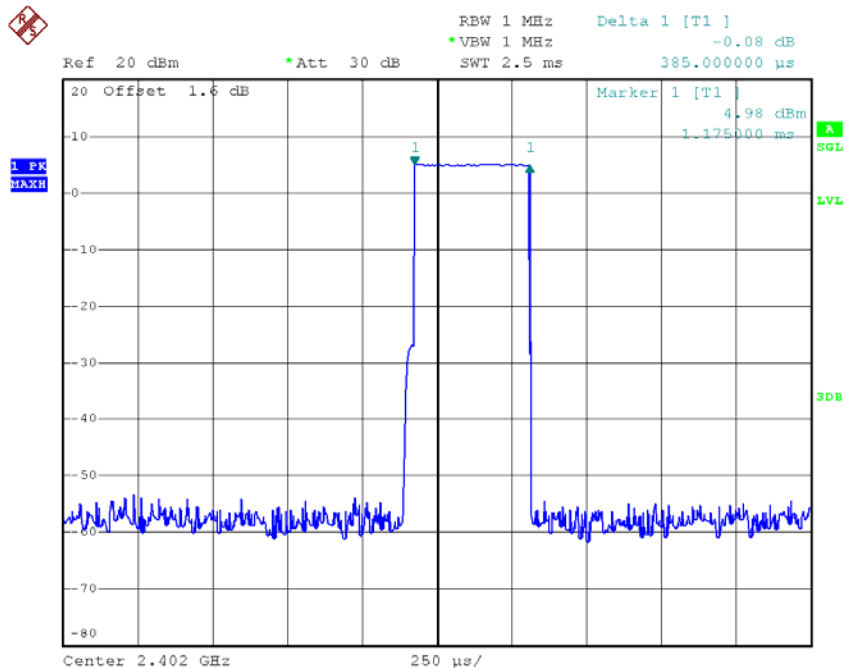
Date: 19.MAR.2016 16:03:45

ATTACHMENT F - AVERAGE TIME OF OCCUPANCY

Test Mode :	TX Mode_1Mbps
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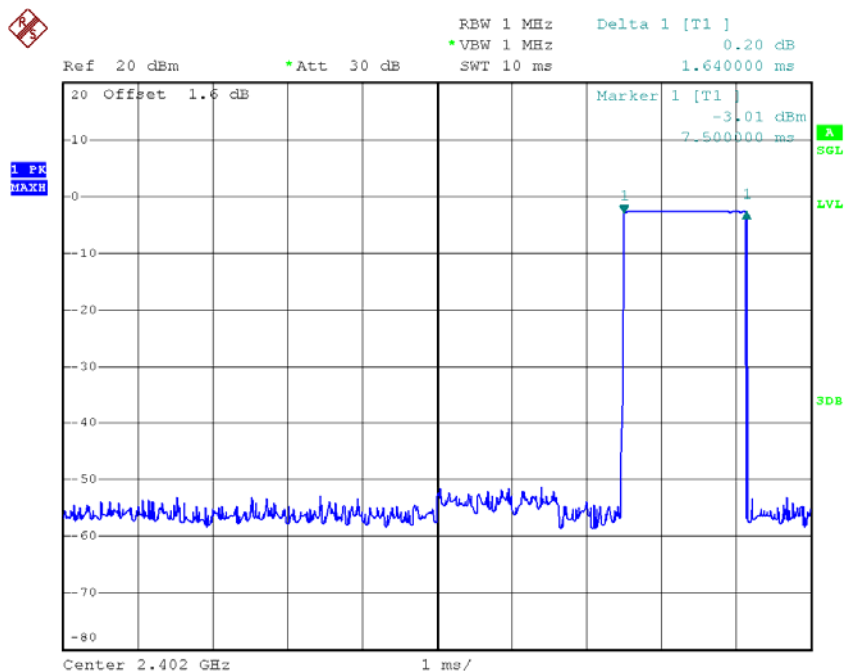
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.9200	0.3115	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3850	0.1232	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3850	0.1232	0.4000	Pass
DH5	2480	2.8800	0.3072	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH1	2480	0.3850	0.1232	0.4000	Pass

CH00-DH1



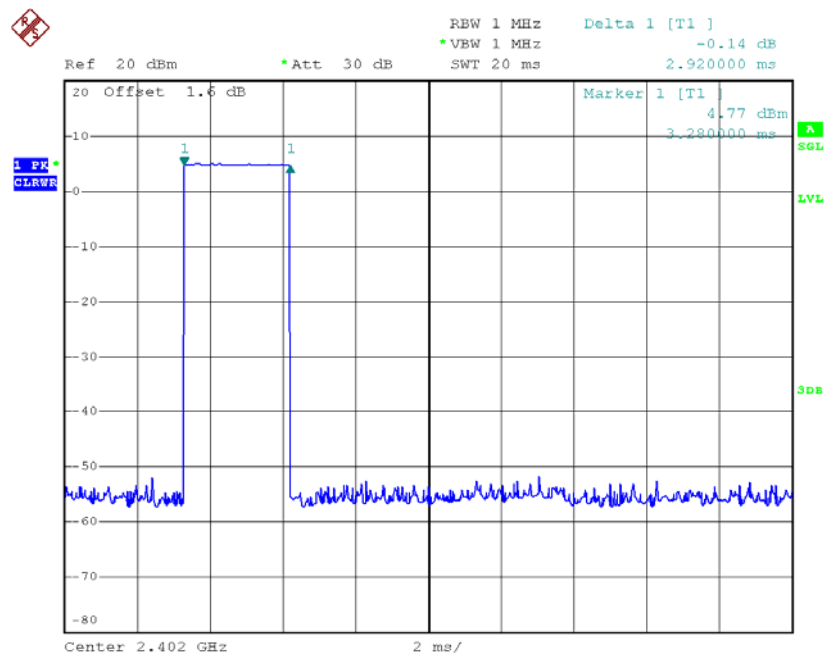
Date: 19.MAR.2016 15:39:42

CH00-DH3



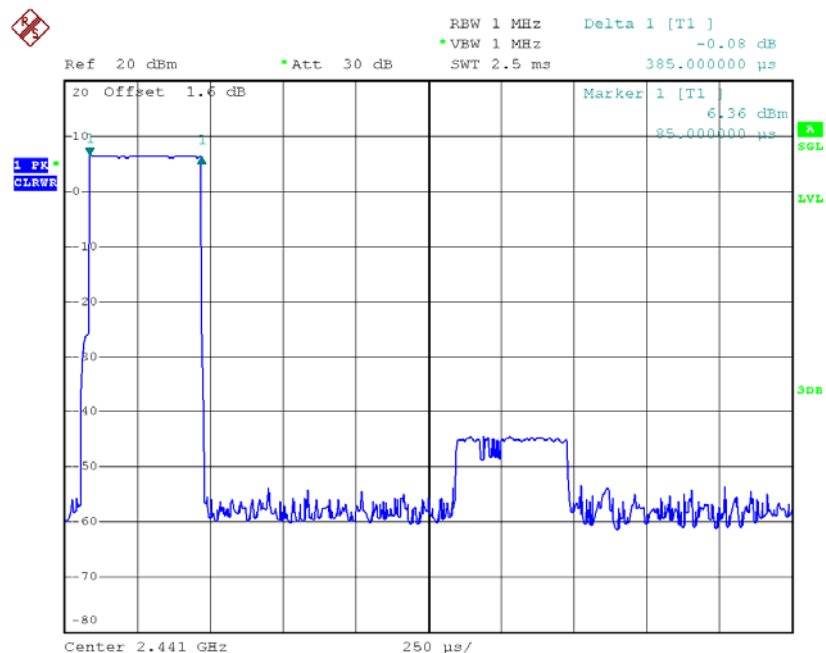
Date: 19.MAR.2016 15:47:34

CH00-DH5



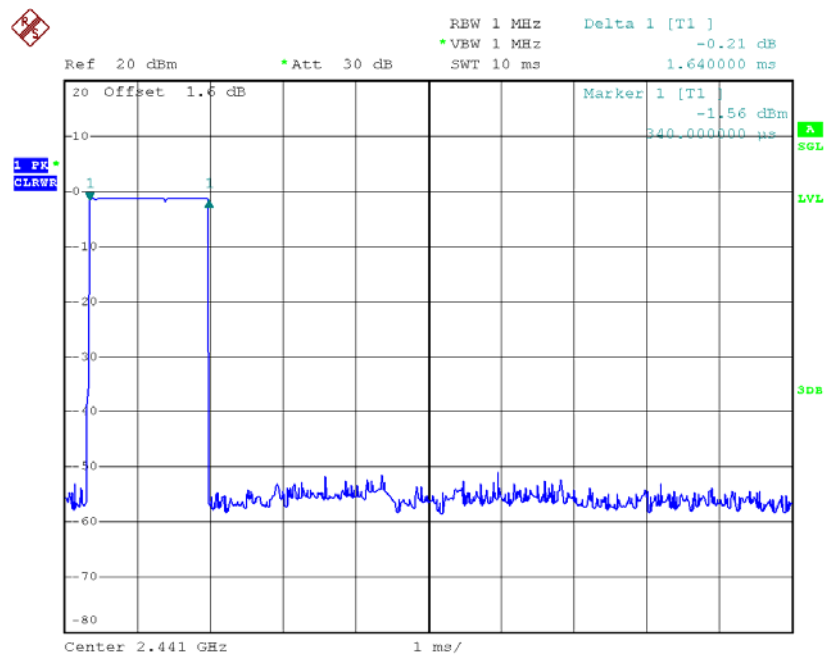
Date: 19.MAR.2016 15:48:21

CH39-DH1



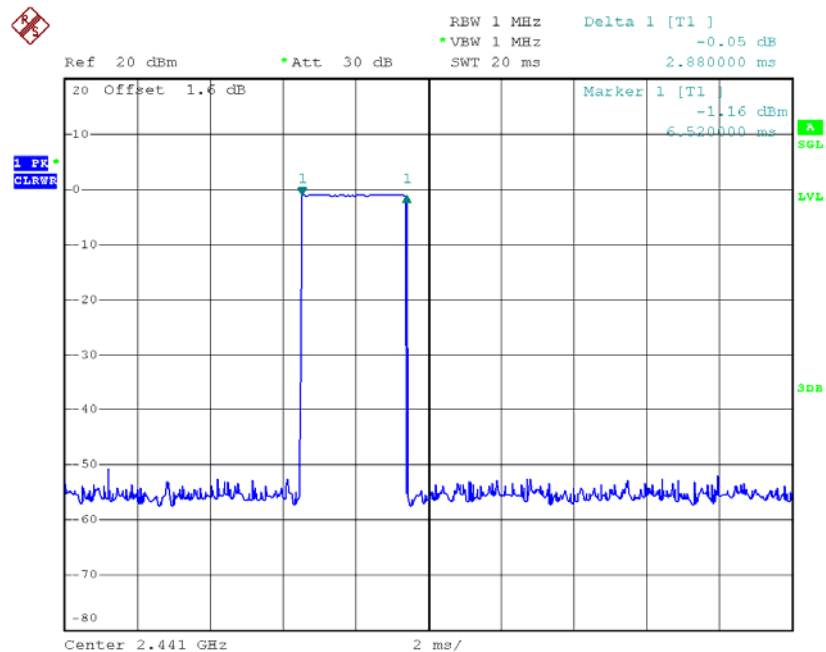
Date: 19.MAR.2016 15:39:47

CH39-DH3



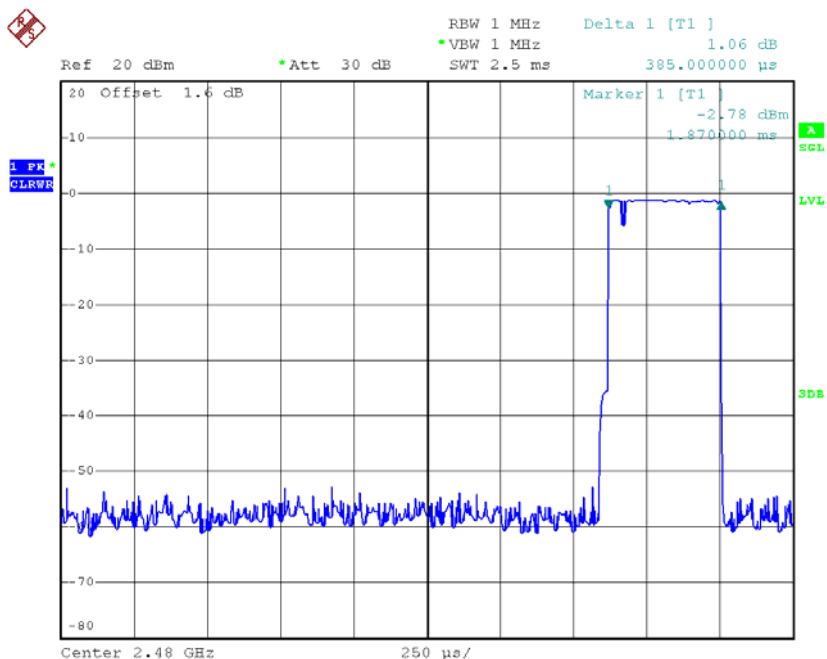
Date: 19.MAR.2016 15:47:38

CH39-DH5



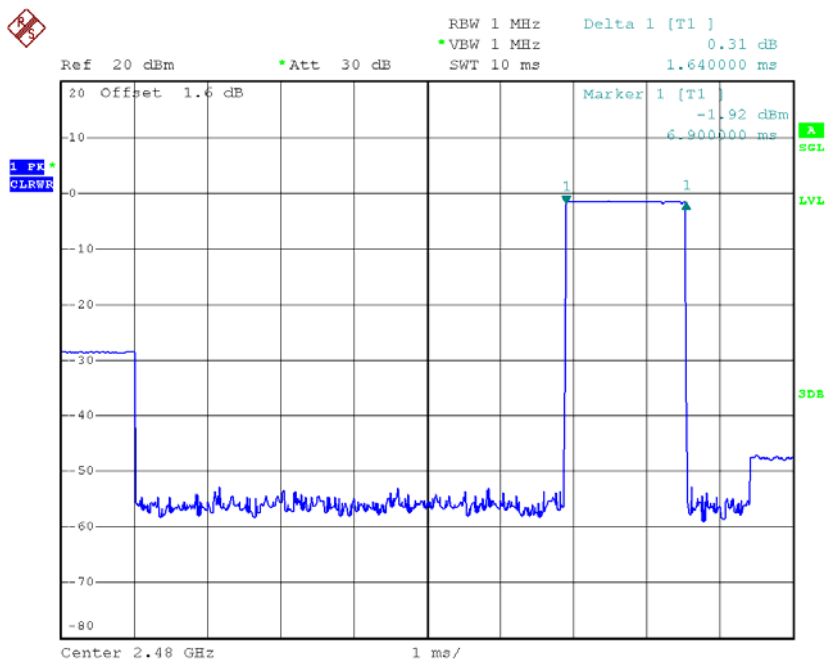
Date: 19.MAR.2016 15:48:26

CH78-DH1



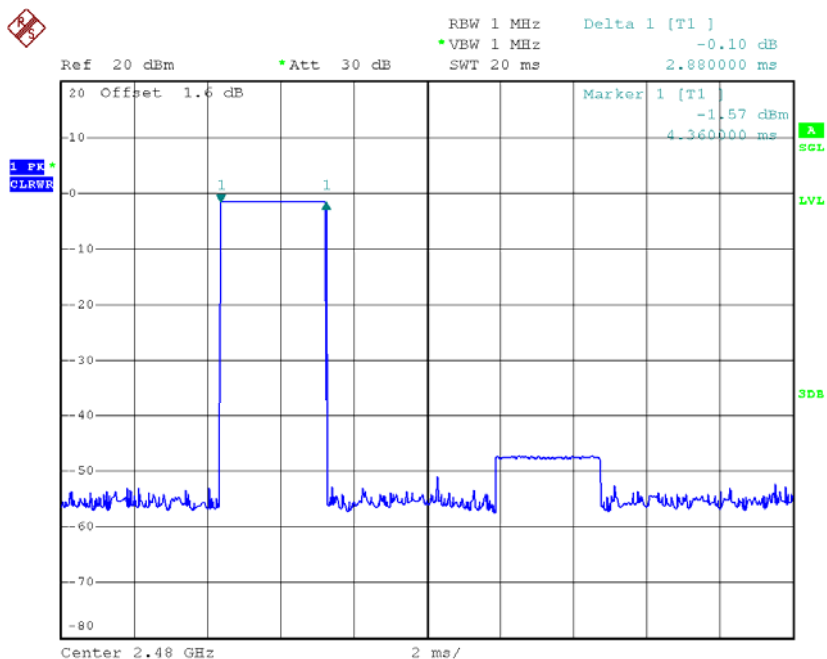
Date: 19.MAR.2016 15:40:00

CH78-DH3



Date: 19.MAR.2016 15:47:42

CH78-DH5

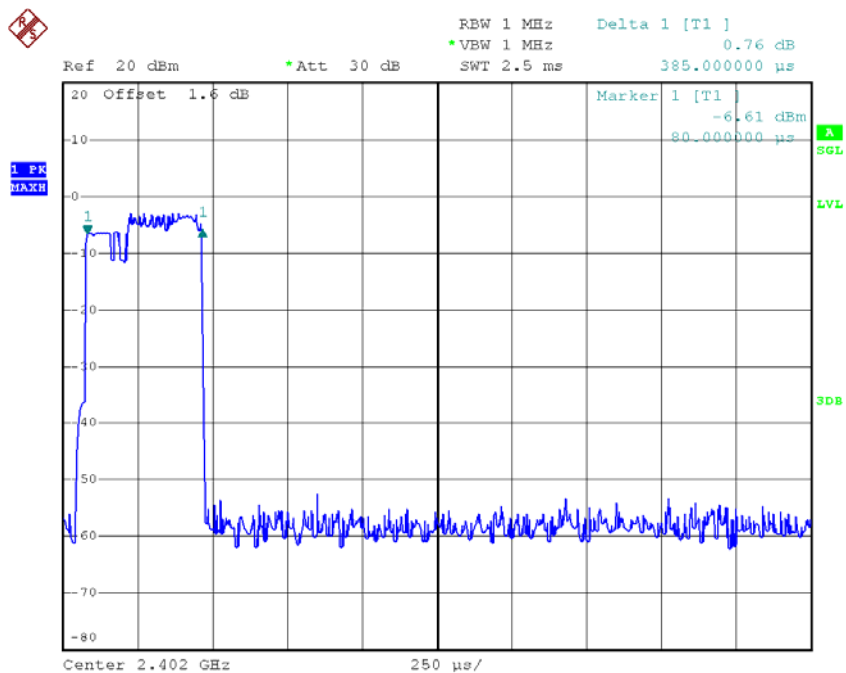


Date: 19.MAR.2016 15:48:30

Test Mode :	TX Mode_3Mbps
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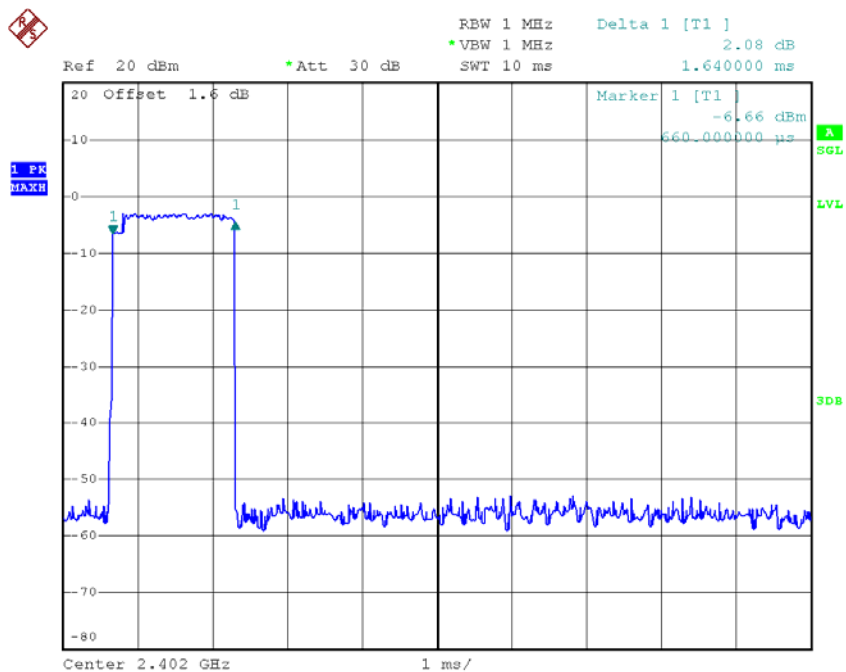
Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3850	0.1232	0.4000	Pass
DH5	2441	2.9200	0.3115	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3850	0.1232	0.4000	Pass
DH5	2480	2.9200	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



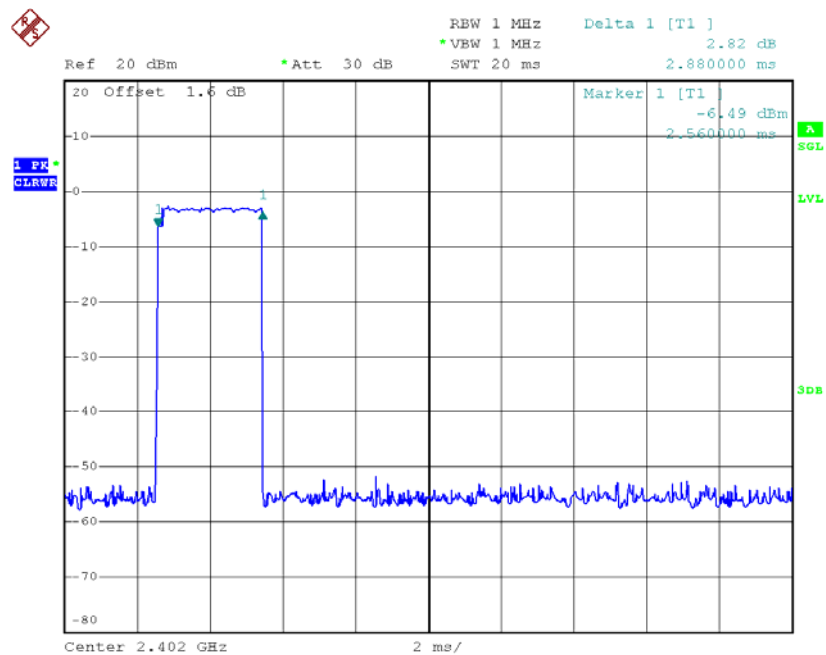
Date: 19.MAR.2016 15:58:24

CH00-DH3



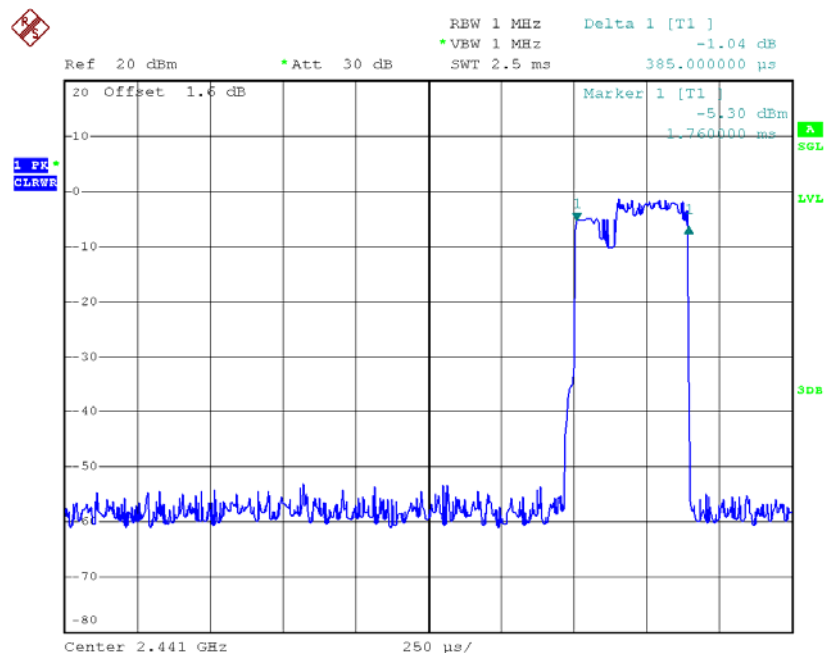
Date: 19.MAR.2016 16:05:37

CH00-DH5



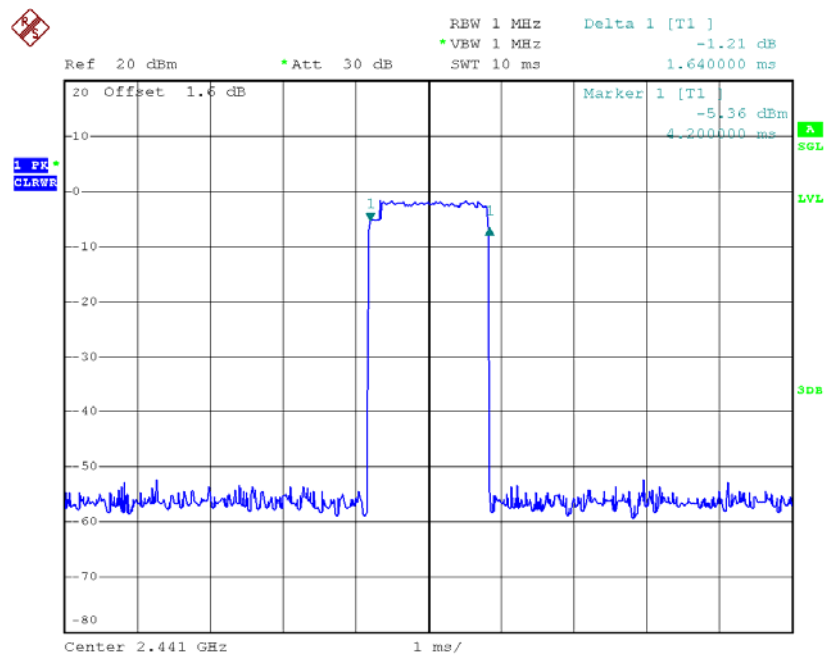
Date: 19.MAR.2016 16:08:25

CH39-DH1



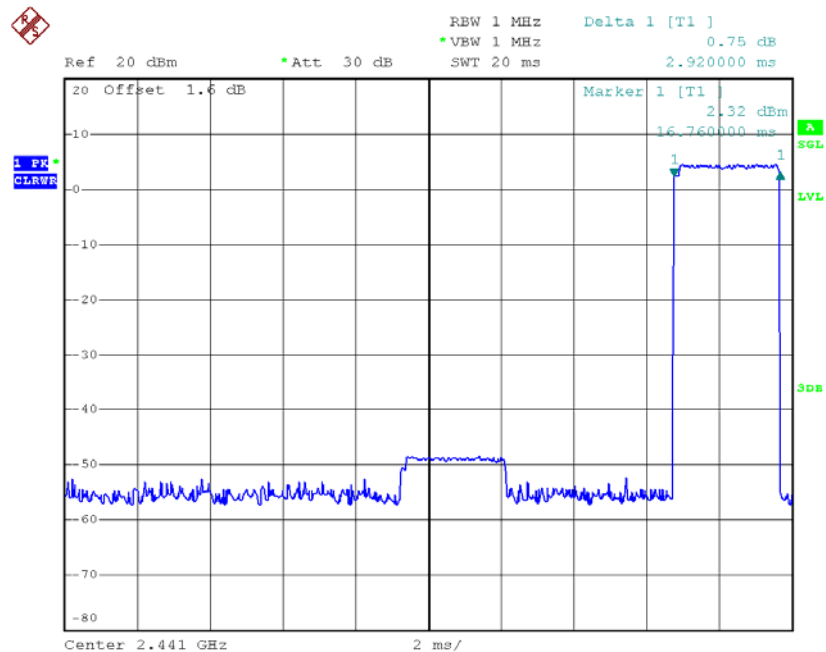
Date: 19.MAR.2016 15:58:29

CH39-DH3



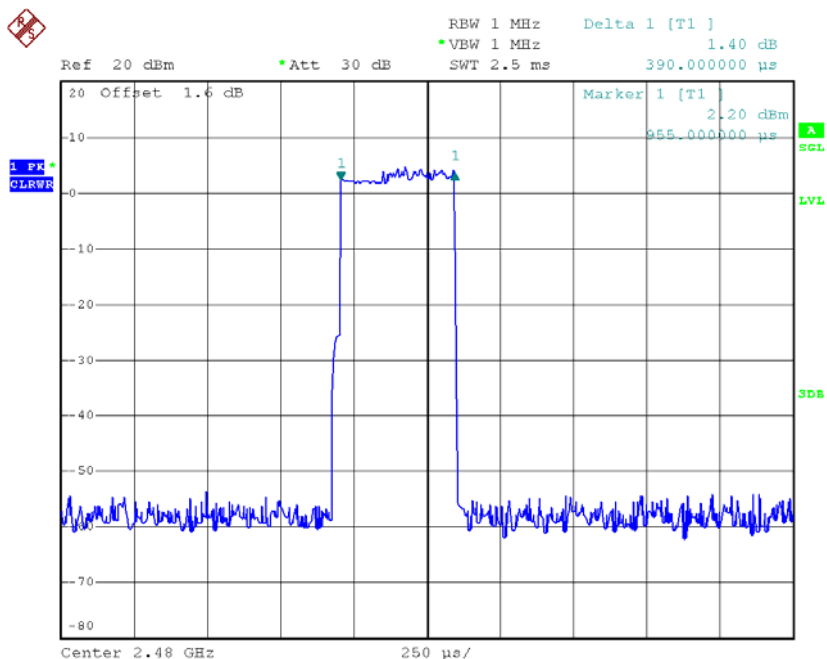
Date: 19.MAR.2016 16:05:42

CH39-DH5



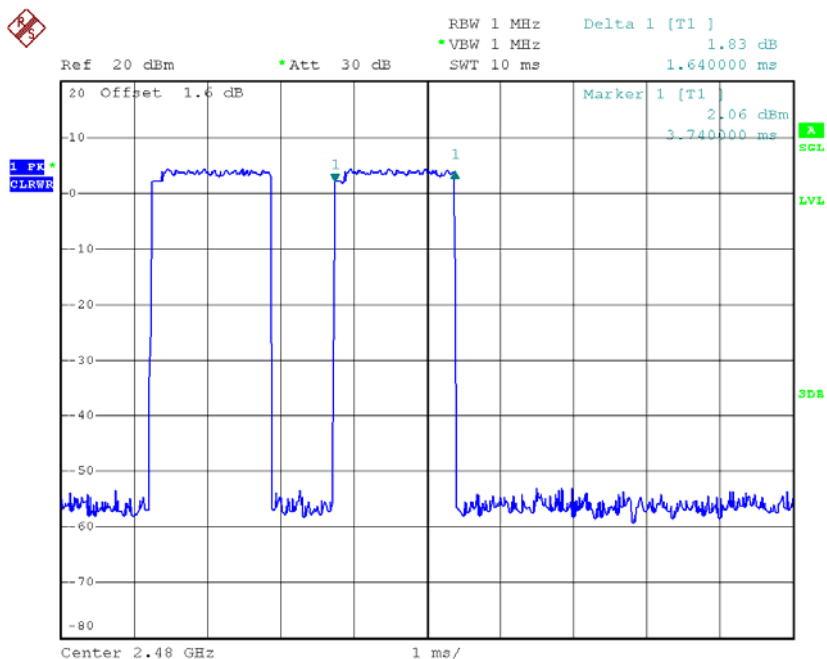
Date: 19.MAR.2016 16:08:33

CH78-DH1



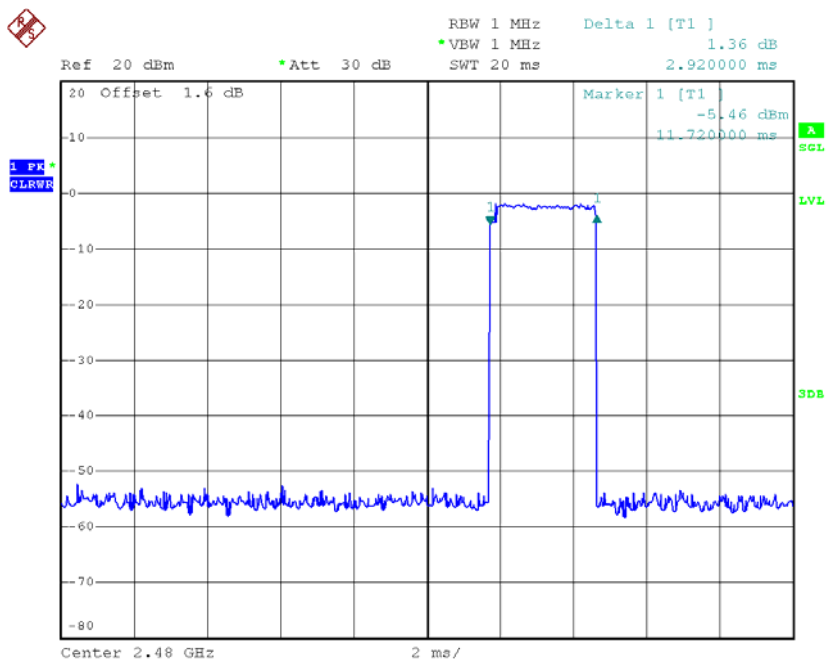
Date: 19.MAR.2016 15:58:35

CH78-DH3



Date: 19.MAR.2016 16:05:46

CH78-DH5

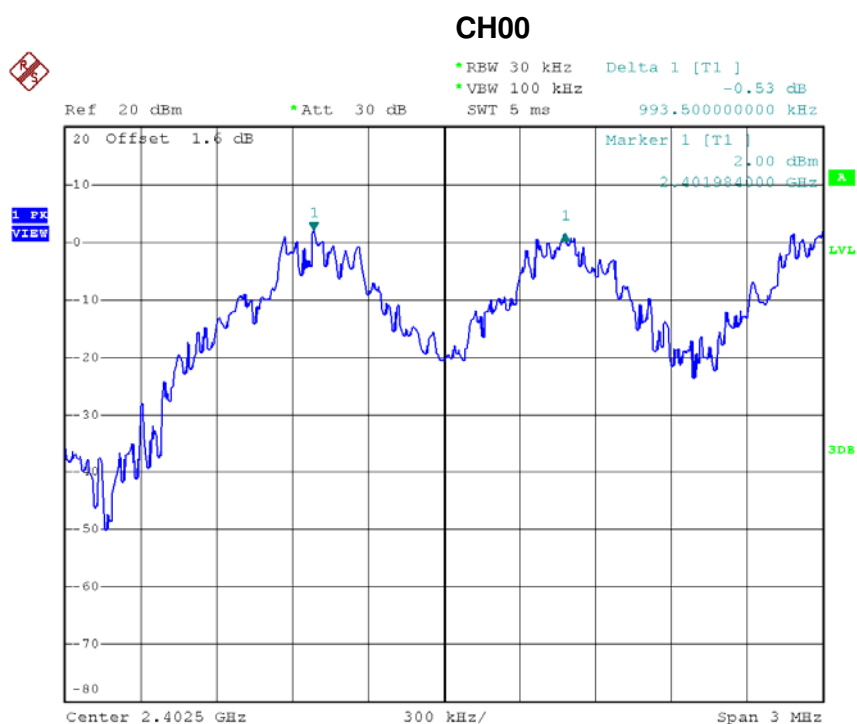


Date: 19.MAR.2016 16:08:37

ATTACHMENT G - HOPPING CHANNEL SEPARATION MEASUREMENT

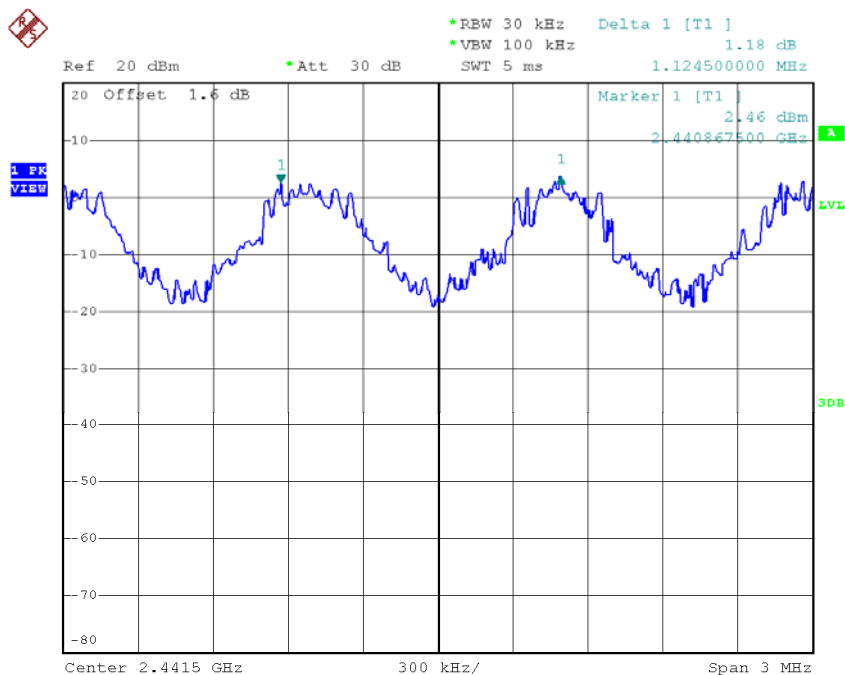
Test Mode :	Hopping on _1Mbps
-------------	-------------------

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.994	0.665	Pass
2441	1.125	0.677	Pass
2480	1.002	0.676	Pass



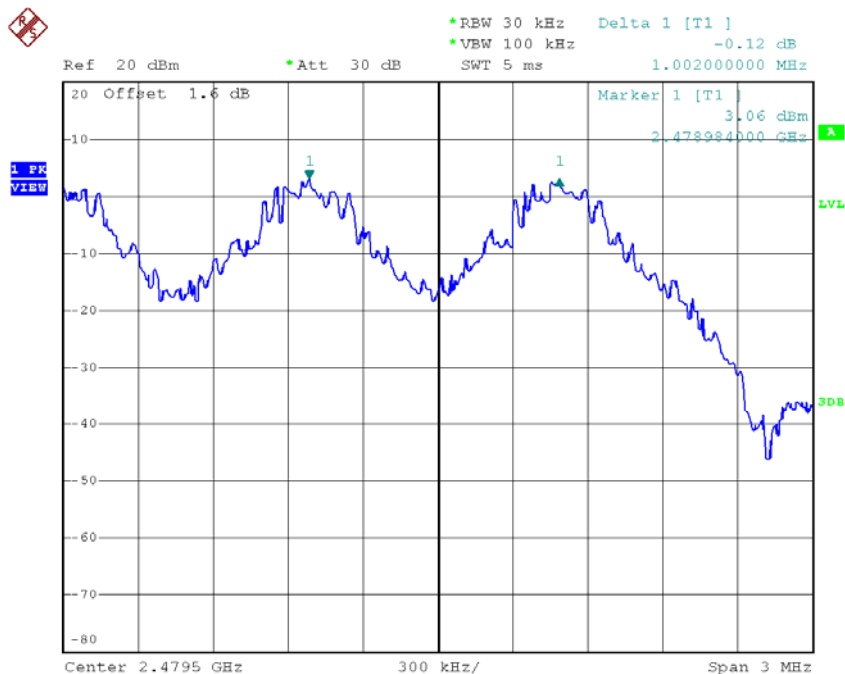
Date: 19.MAR.2016 15:41:10

CH39



Date: 19.MAR.2016 15:42:18

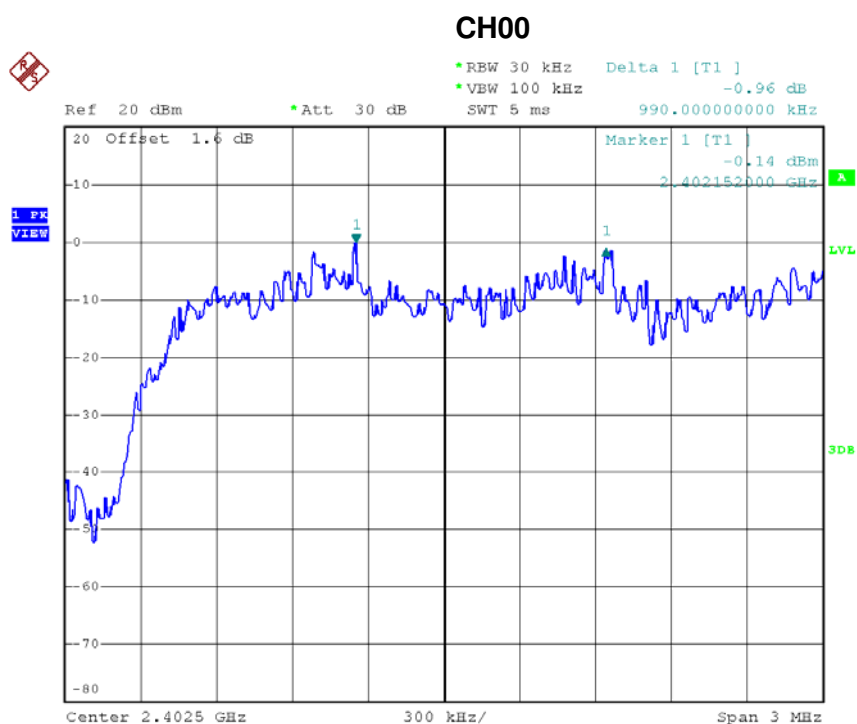
CH78



Date: 19.MAR.2016 15:43:22

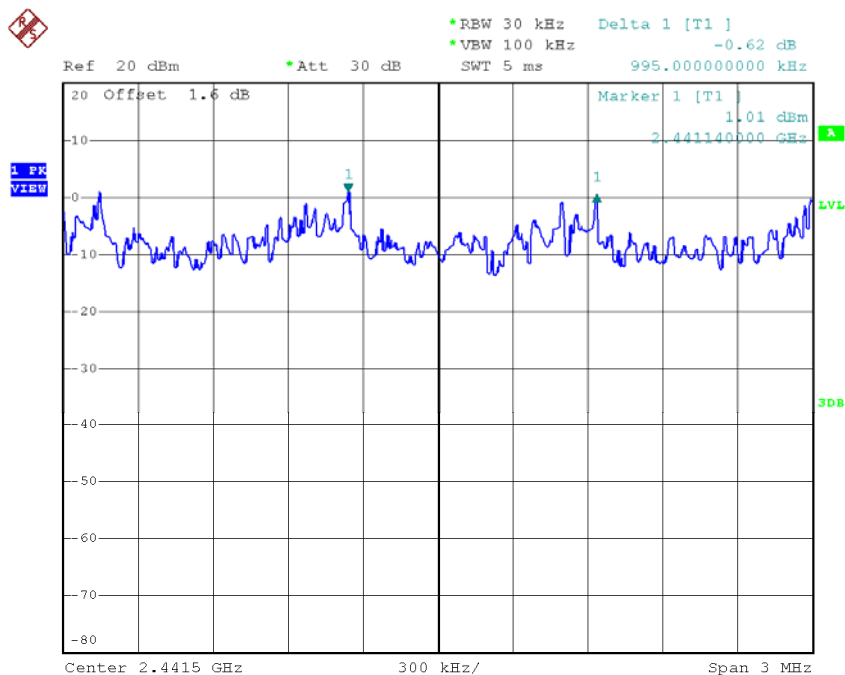
Test Mode :	Hopping on _3Mbps
-------------	-------------------

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.990	0.829	Pass
2441	0.995	0.836	Pass
2480	1.167	0.837	Pass



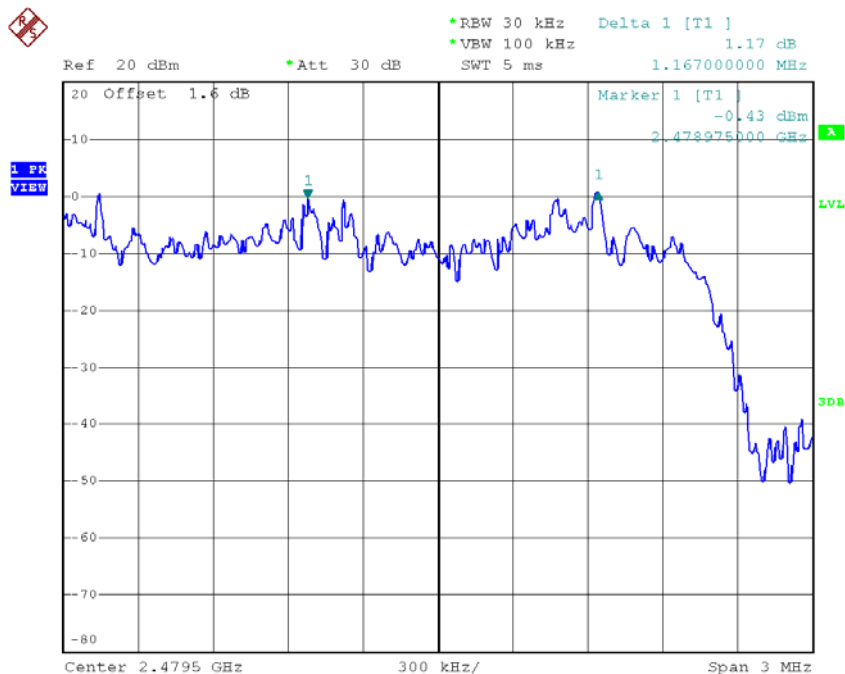
Date: 19.MAR.2016 15:59:41

CH39



Date: 19.MAR.2016 16:00:49

CH78

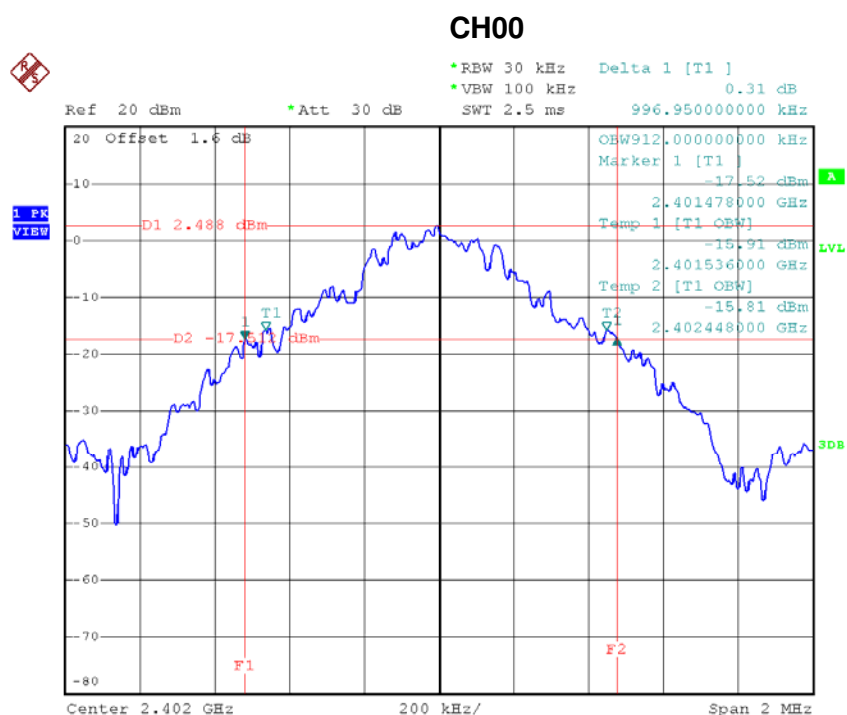


Date: 19.MAR.2016 16:01:56

ATTACHMENT H - BANDWIDTH

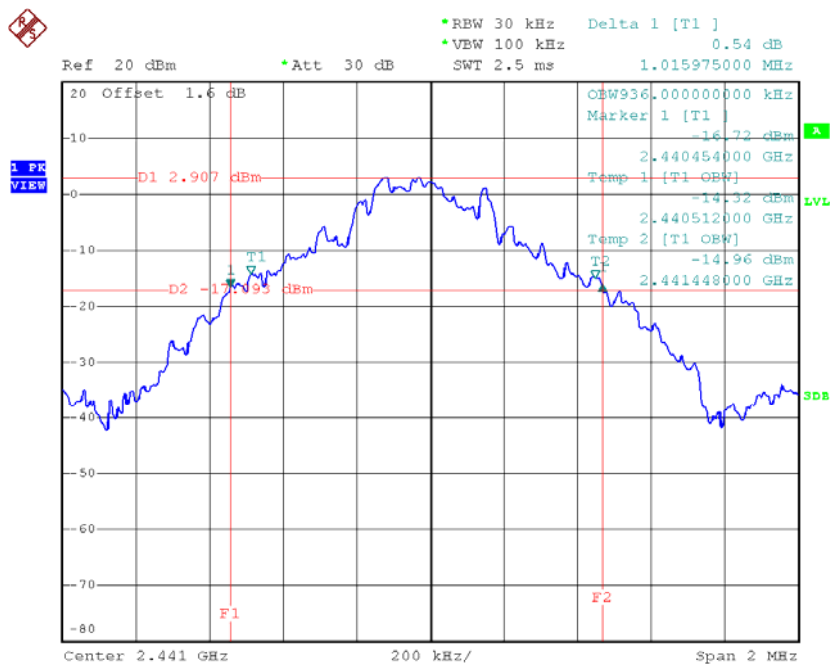
Test Mode :	TX Mode _1Mbps
-------------	----------------

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.997	0.912	Pass
2441	1.016	0.936	Pass
2480	1.014	0.932	Pass



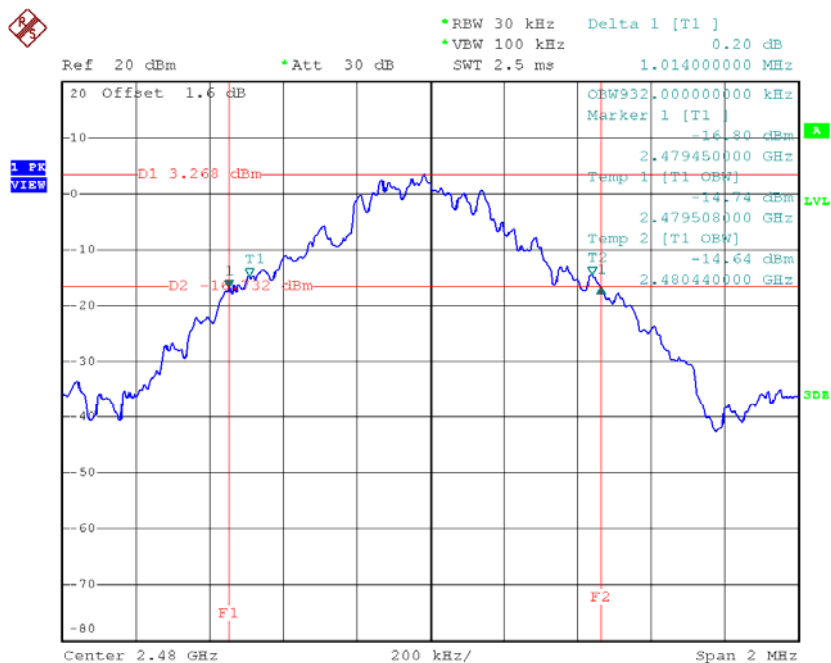
Date: 19.MAR.2016 15:34:48

CH39



Date: 19.MAR.2016 15:36:06

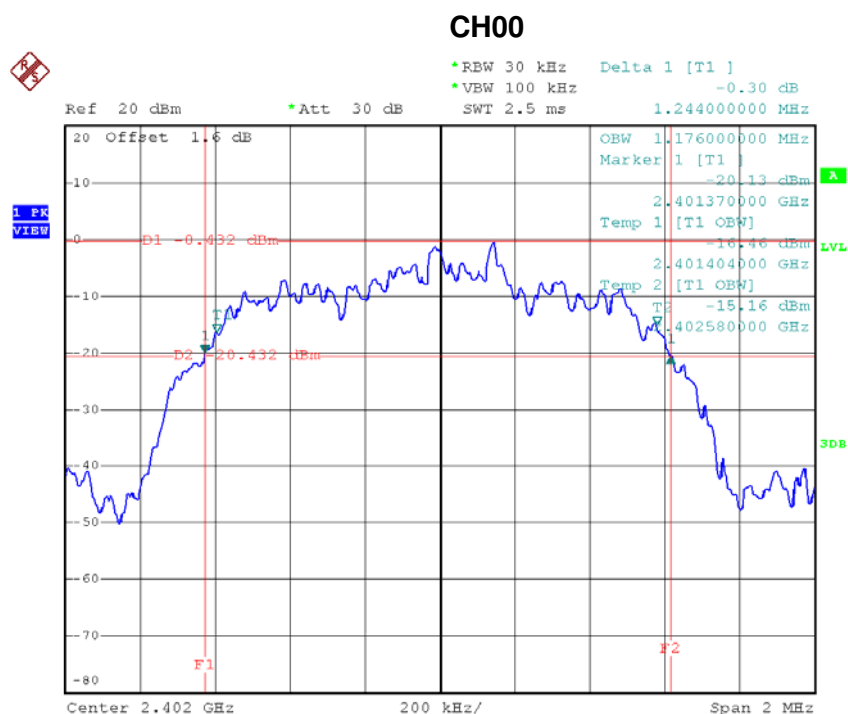
CH78



Date: 19.MAR.2016 15:37:05

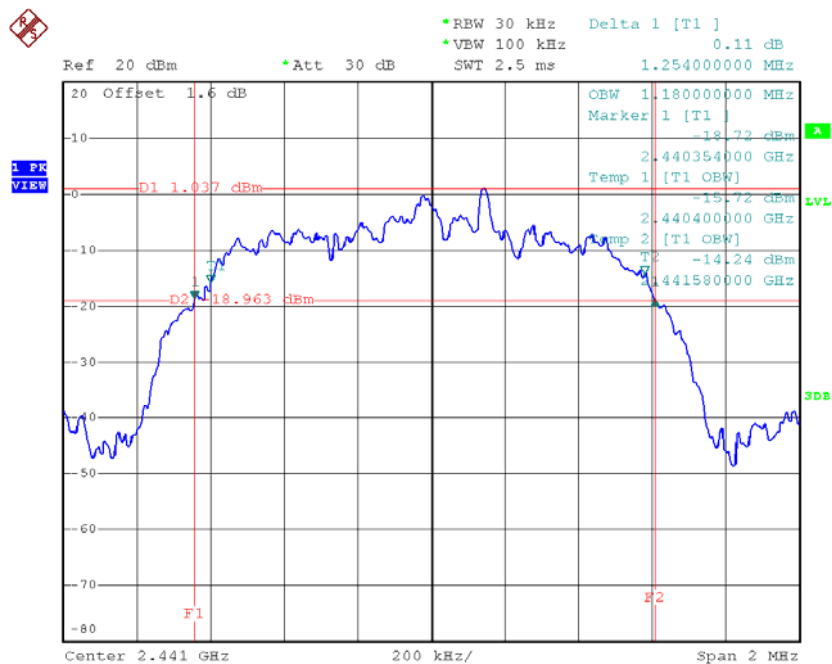
Test Mode :	TX Mode _3Mbps
-------------	----------------

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.244	1.176	Pass
2441	1.254	1.180	Pass
2480	1.255	1.168	Pass



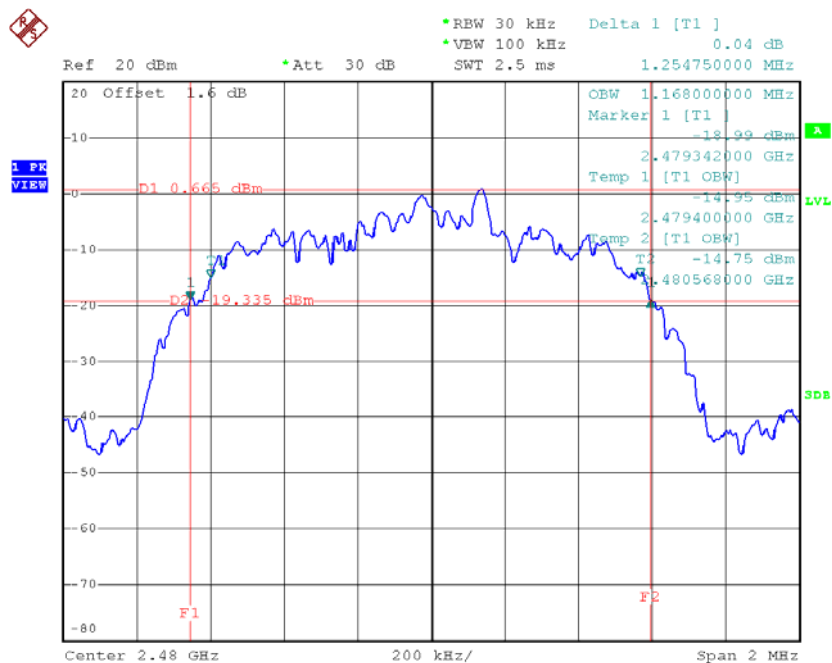
Date: 19.MAR.2016 15:55:18

CH39



Date: 19.MAR.2016 15:56:40

CH78

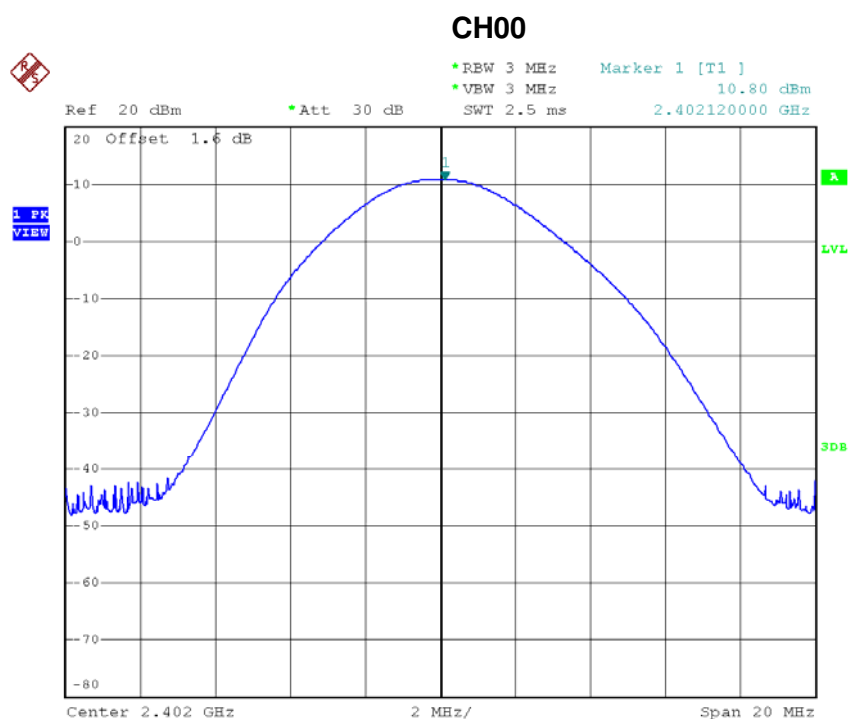


Date: 19.MAR.2016 15:57:29

ATTACHMENT I - PEAK OUTPUT POWER

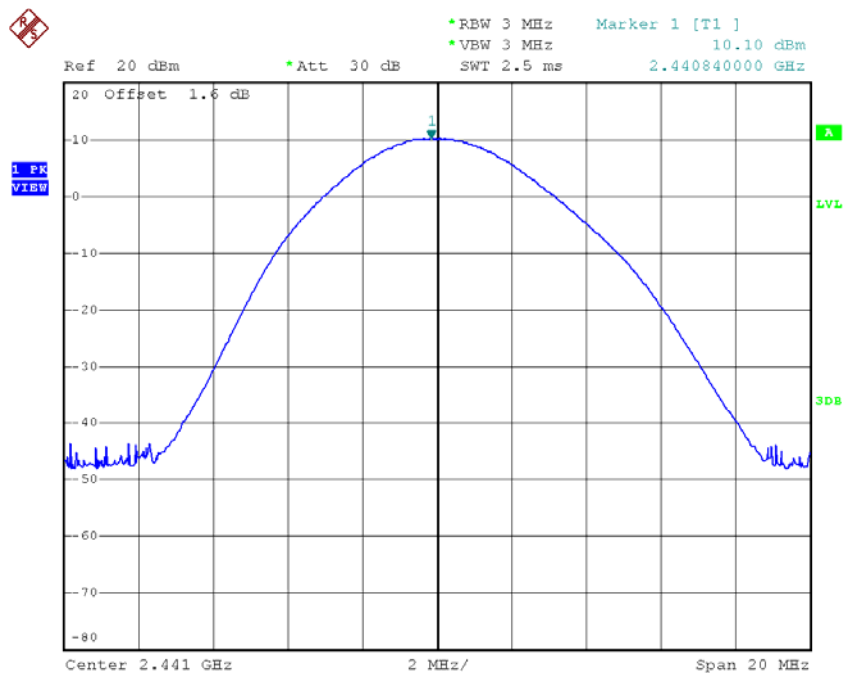
Test Mode :	TX Mode _1Mbps
-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	10.80	0.0120	30.00	1.00	Pass
2441	10.10	0.0102	30.00	1.00	Pass
2480	8.50	0.0071	30.00	1.00	Pass



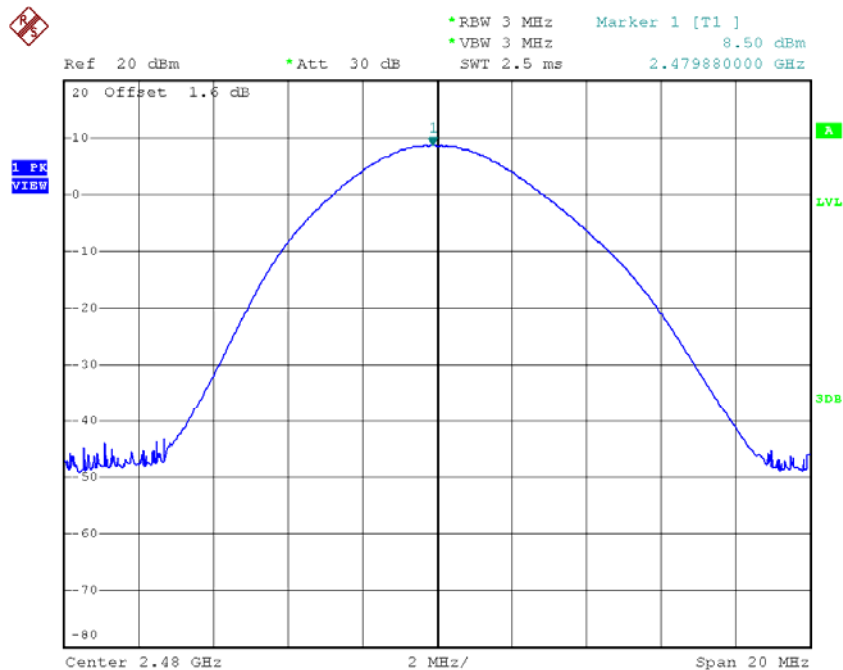
Date: 6.APR.2016 17:09:59

CH39



Date: 6.APR.2016 17:10:32

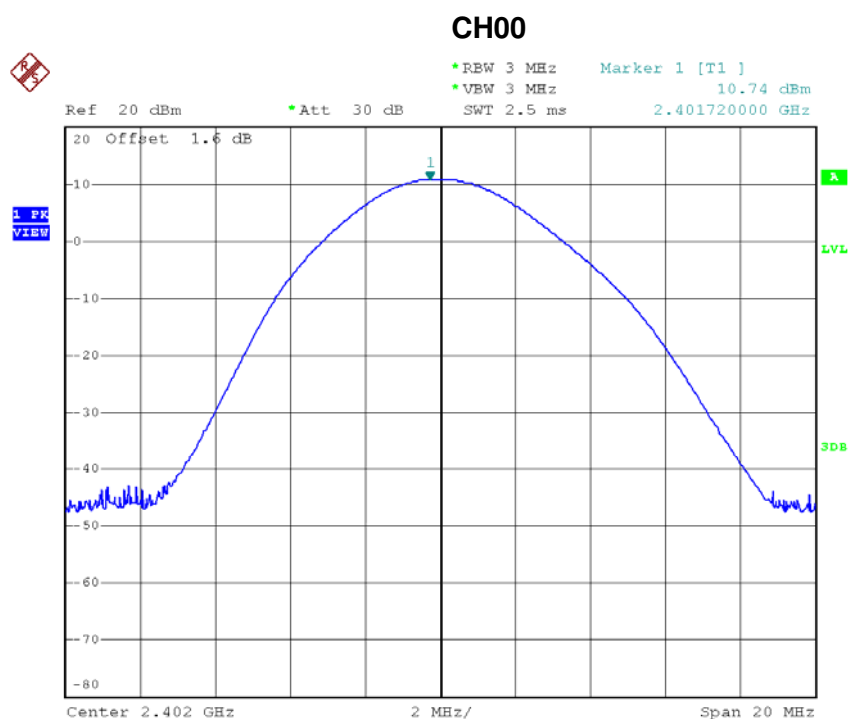
CH78



Date: 6.APR.2016 17:10:47

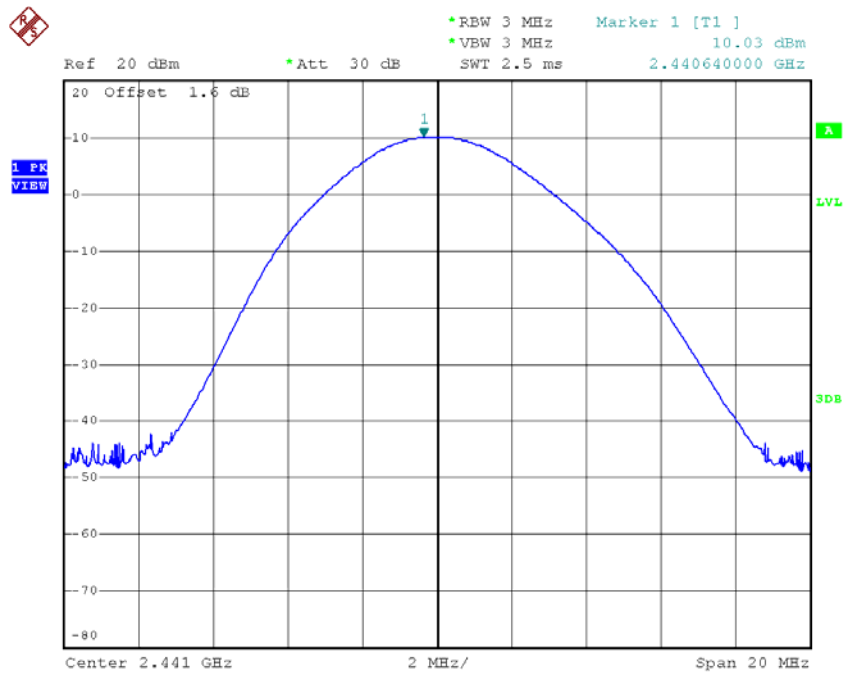
Test Mode :	TX Mode _3Mbps
-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	10.74	0.0119	30.00	1.00	Pass
2441	10.03	0.0101	30.00	1.00	Pass
2480	8.47	0.0070	30.00	1.00	Pass



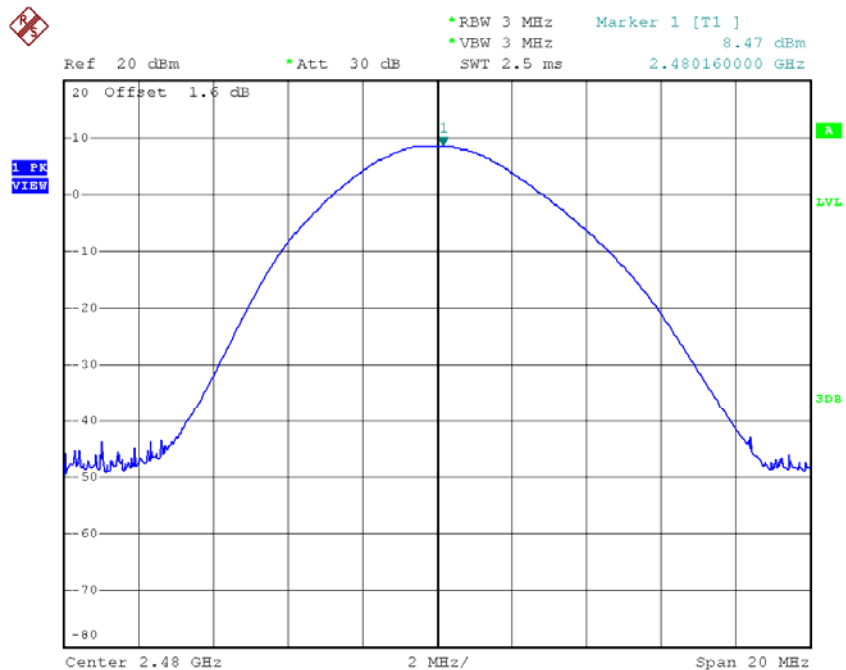
Date: 6.APR.2016 17:13:16

CH39



Date: 6.APR.2016 17:13:33

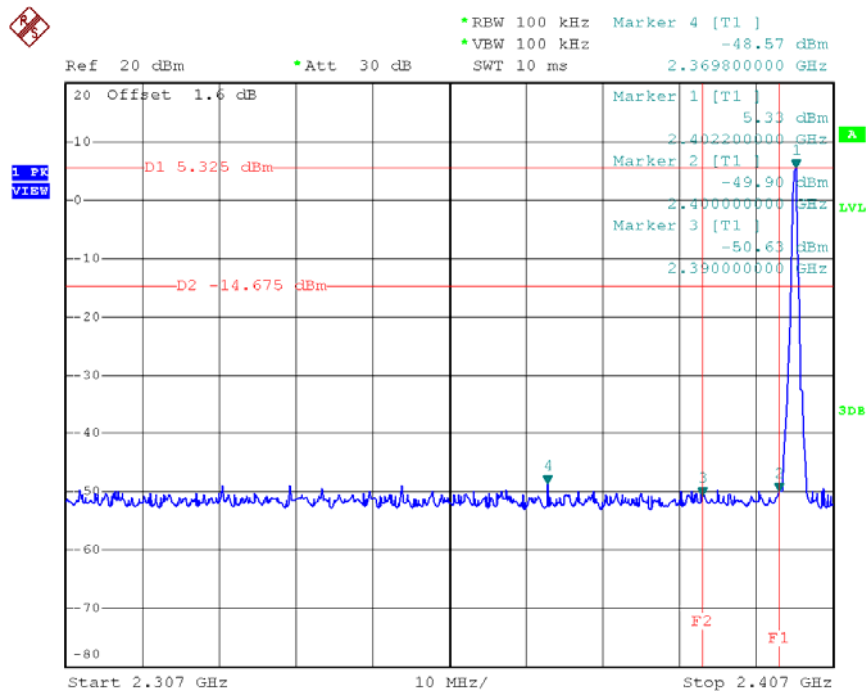
CH78



Date: 6.APR.2016 17:13:49

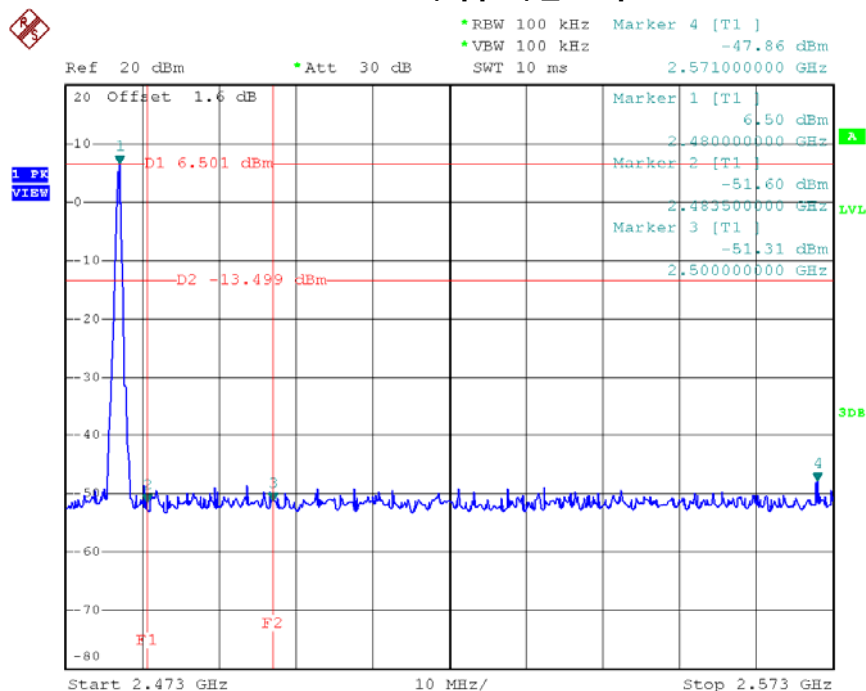
ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION

CH00 (Lower)_1Mbps



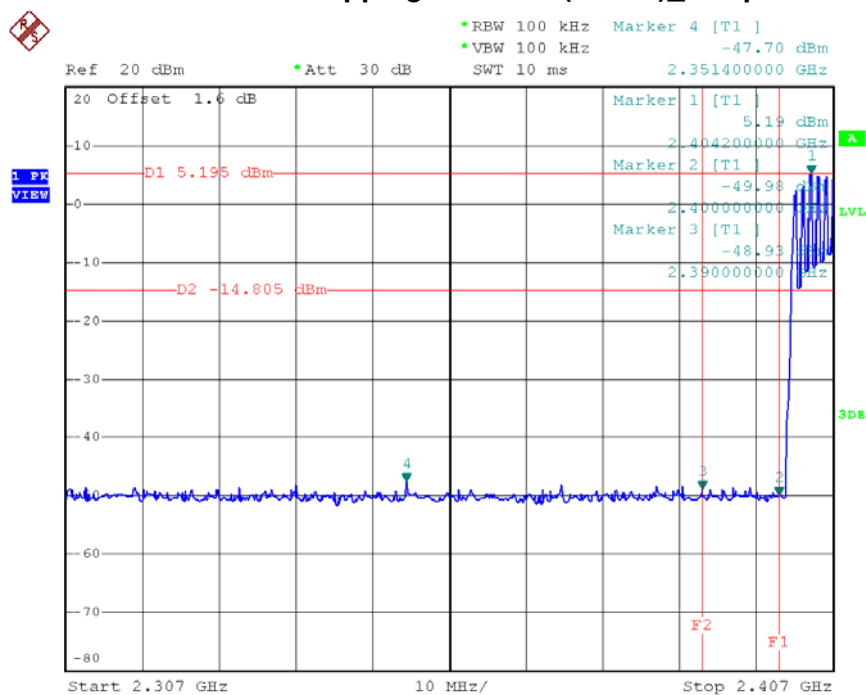
Date: 19.MAR.2016 15:34:22

CH78 (Upper)_1Mbps



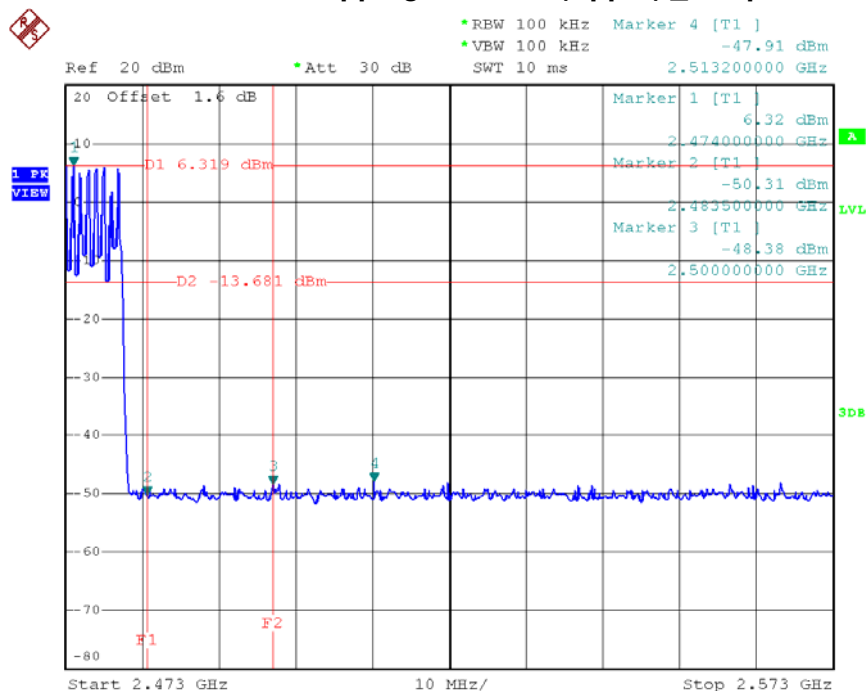
Date: 19.MAR.2016 15:36:40

CH00 Hopping on mode (Lower)_1Mbps



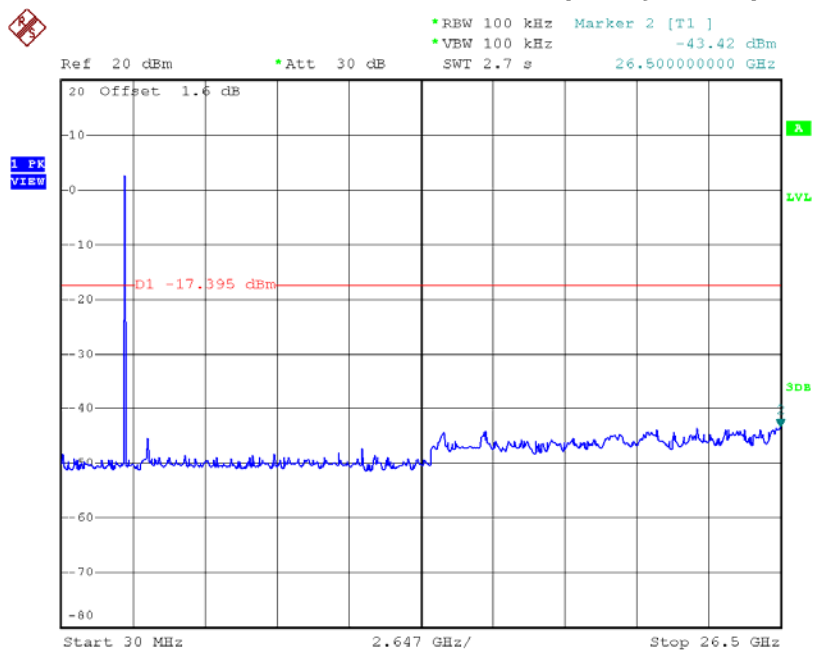
Date: 19.MAR.2016 15:45:46

CH78 Hopping on mode (Upper)_1Mbps



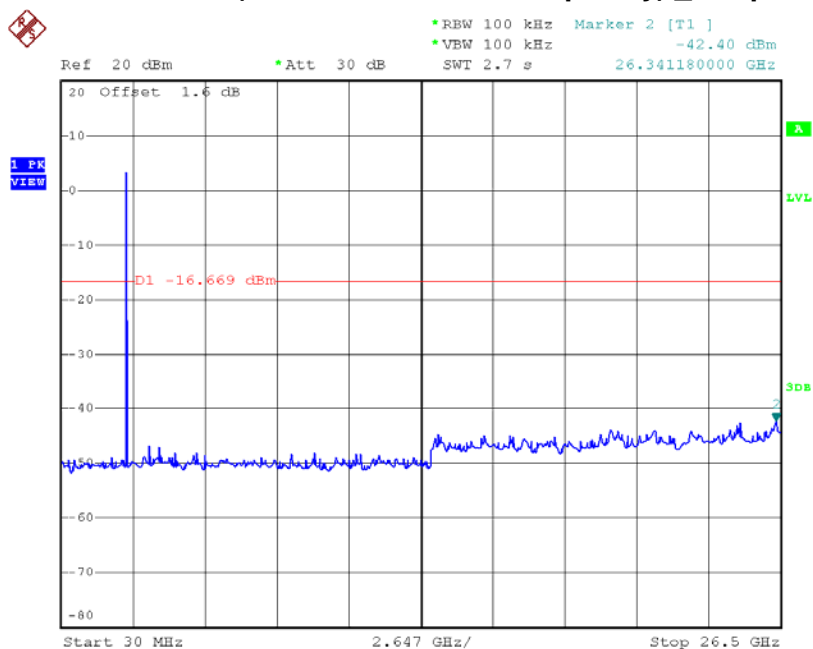
Date: 19.MAR.2016 15:46:20

CH00 (10 Harmonic of the frequency) _1Mbps



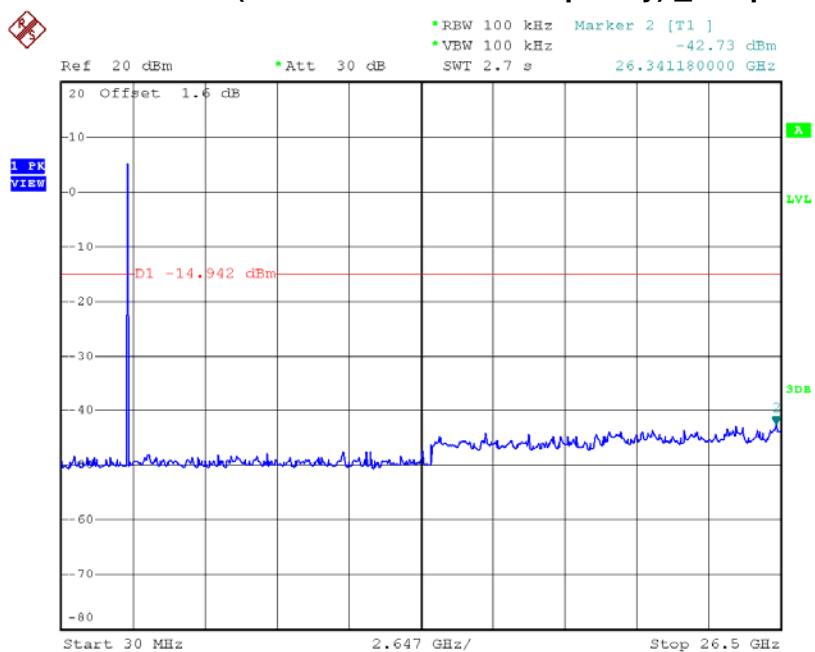
Date: 19.MAR.2016 15:35:02

CH39 (10 Harmonic of the frequency) _1Mbps



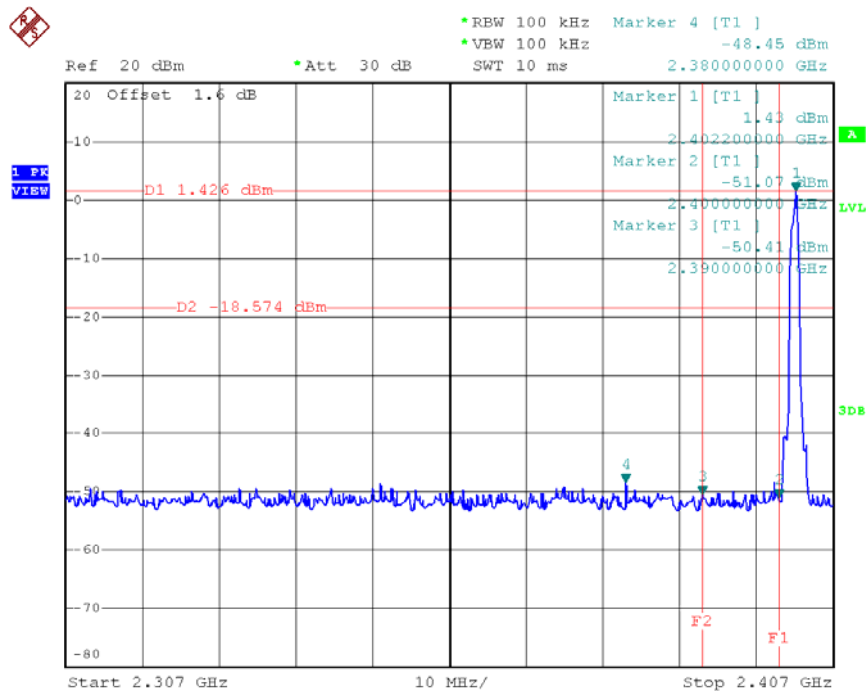
Date: 19.MAR.2016 15:35:40

CH78 (10 Harmonic of the frequency) _1Mbps



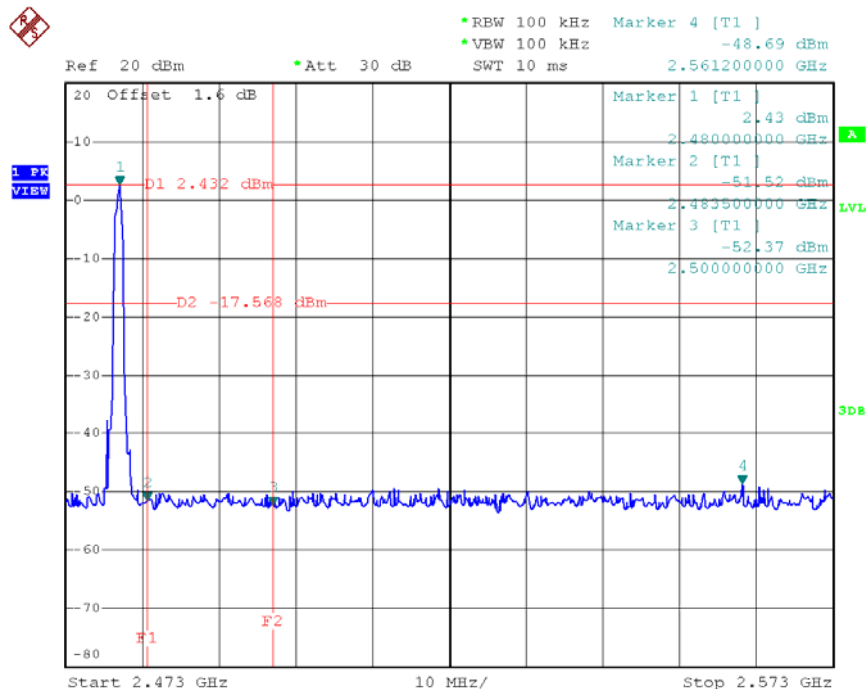
Date: 19.MAR.2016 15:37:39

CH00 (Lower) _3Mbps



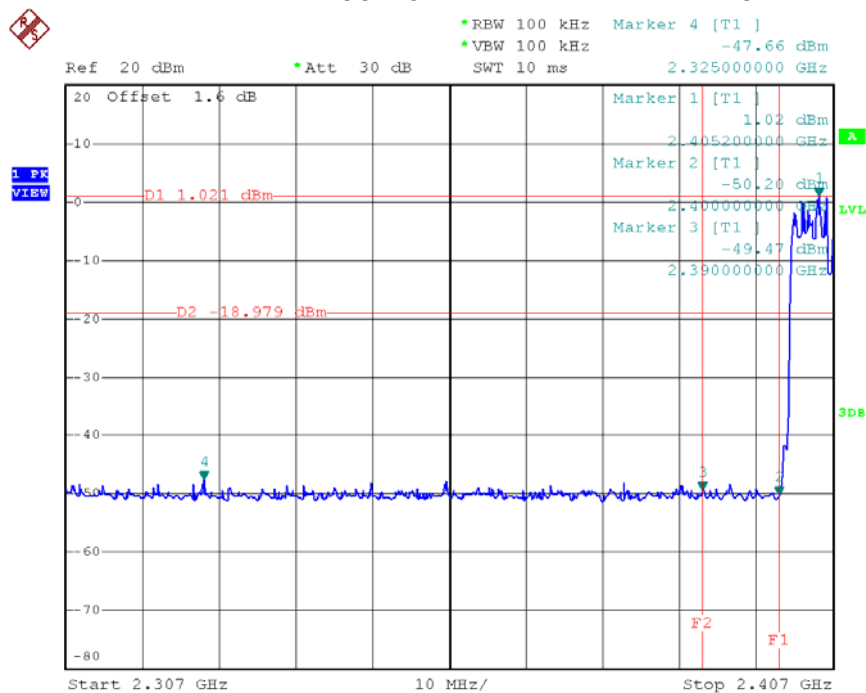
Date: 19.MAR.2016 15:54:56

CH78 (Upper) _3Mbps



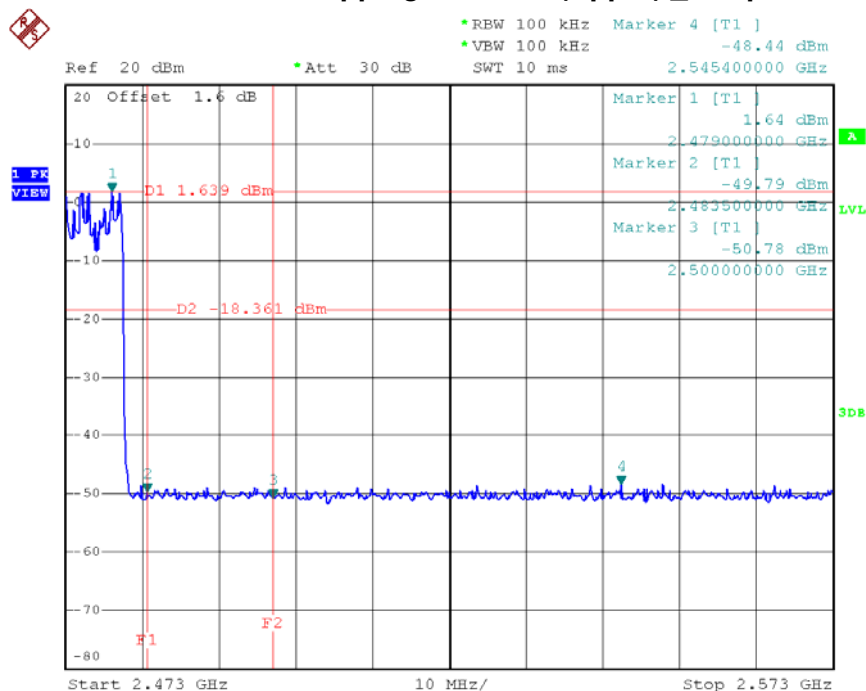
Date: 19.MAR.2016 15:57:09

CH00 Hopping on mode (Lower)_3Mbps



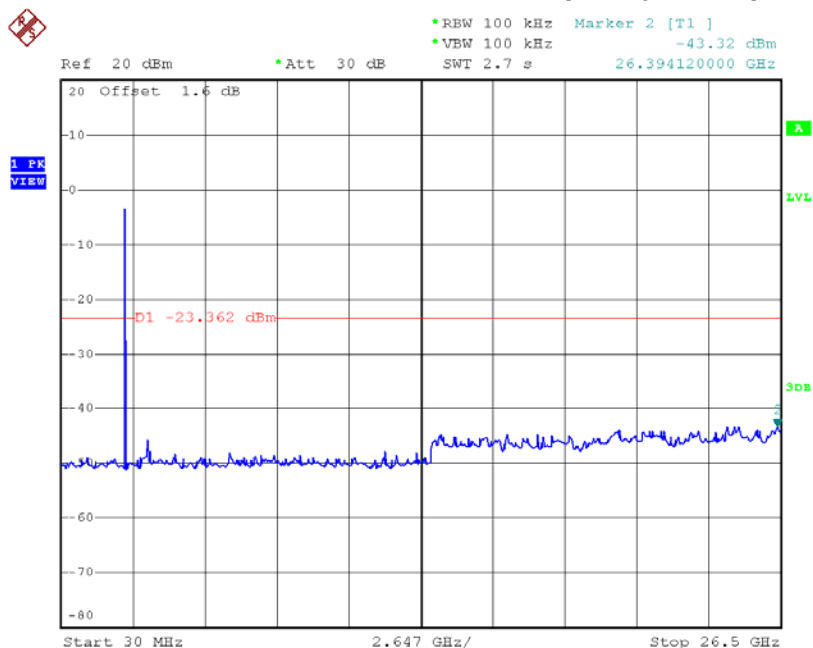
Date: 19.MAR.2016 16:04:20

CH78 Hopping on mode (Upper) _3Mbps



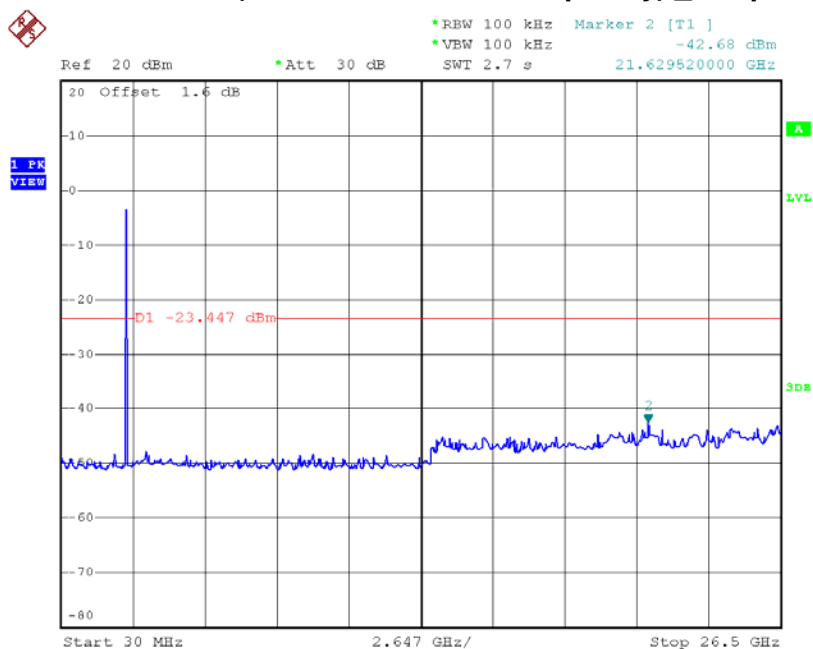
Date: 19.MAR.2016 16:04:55

CH00 (10 Harmonic of the frequency) _3Mbps



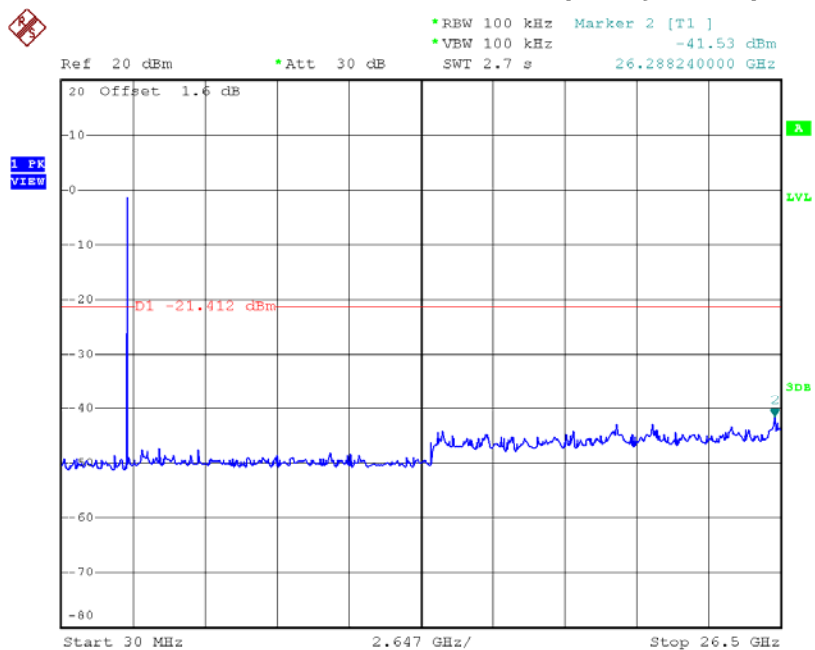
Date: 19.MAR.2016 15:55:38

CH39 (10 Harmonic of the frequency) _3Mbps



Date: 19.MAR.2016 15:56:19

CH78 (10 Harmonic of the frequency) _3Mbps



Date: 19.MAR.2016 15:57:50