

FCC Radio Test Report

FCC ID: QISBAH2-W19A

This report concerns: Original Grant

Project No. : 1904C015
Equipment : Tablet
Test Model : BAH2-W19
Series Model : N/A
Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China

Date of Receipt : Apr. 03, 2019
Date of Test : Apr. 08, 2019 ~ Apr. 23, 2019
Issued Date : Apr. 24, 2019
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Certificate #5123.02

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Limitation

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

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Apr. 24, 2019

1. GENERAL SUMMARY

Equipment : Tablet
Brand Name : HUAWEI
Test Model : BAH2-W19
Series Model : N/A
Applicant : Huawei Technologies Co., Ltd.
Manufacturer : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, China
Date of Test : Apr. 08, 2019 ~ Apr. 23, 2019
Test Sample : Engineering Sample No.: D190403498
Standard(s) : FCC Part15, Subpart C (15.247)
ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance

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-1-1904C015) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

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

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.247)				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	N/A	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emission	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247 (a)(1)(iii)	Number of Hopping Frequency	APPENDIX E	PASS	-----
15.247 (a)(1)(iii)	Average Time Of Occupancy	APPENDIX F	PASS	-----
15.247(a)(1)	Hopping Channel Separation	APPENDIX G	PASS	-----
15.247(a)(1)	Bandwidth	APPENDIX H	PASS	-----
15.247(a)(1)	Maximum Output Power	APPENDIX I	PASS	-----
15.247(d)	Conducted Spurious Emission	APPENDIX J	PASS	-----
15.203	Antenna Requirement	-----	PASS	-----

Note:

- (1) "N/A" denotes test is not applicable in this test report
- (2) BAH2-W19 has two storage scenarios: 3GB+32GB and 4GB+64GB.
All rest test items are conducted only for 4GB+64GB except RSE test. RSE test is done both for 4GB+64GB and 3GB+32GB. For the RSE of 3GB+32GB only the worst case is evaluated and recorded in the 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 Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. Radiated emissions test:

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

B. Other Measurement:

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet
Brand Name	HUAWEI
Test Model	BAH2-W19
Series Model	N/A
Model Difference(s)	Please refer to note 3.
Software Version	BAH2-W19 8.0.0.135(C605)
Hardware Version	SH0BAH2LM
Power Source	1# DC voltage supplied from AC/DC adapter. 2# Supplied from battery. 3# Supplied from USB port.
Power Rating	1# I/P: 100-240V ~50/60Hz, 0.5A O/P: 5V $\overline{=}$ 2A OR 9V $\overline{=}$ 2A 2# DC 3.82V, 7350mAh 3# DC 5V
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Bit Rate of Transmitter	1/2/3Mbps
Output Power Max.	9.89 dBm (0.0097 W) For 1Mbps 10.70 dBm (0.0117 W) For 3Mbps

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- This product has the mode of BT AFH, which was considered during testing, but this mode is not the worst case mode, and this report only shows the worst case mode.
- BAH2-W19 has two storage scenarios, with different memory. EMCP Storage Capacity is 3GB+32GB, LPDDR3+EMMC separation Scheme storage capacity is 4GB+64GB. The two storage mode of peripheral circuit has slight change, but does not affect product performance. The differences about storage scenarios are showed in following table. Other parts of the Tablet are the same, including the appearance, the antenna, Chipset, Bluetooth mode, Wifi mode, Adapter, Battery, Mainboard, Software and so on.

Model	BAH2-W19	
Storage Scenarios	EMCP	LPDDR3+eMMC
Storage Capacity	3GB+32GB	4GB+64GB

4. 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		

5. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	0

6. The EUT contains following accessory devices:

Items	Brand	Factory	Model Name	Description
Adapter	HUAWEI	Salcomp (Shenzhen) Co., Ltd.	HW-090200UH0	I/P: 100-240V ~50/60Hz, 0.5A O/P: 5V  2A OR 9V  2A
		HENZHEN HUNTKEY ELECTRONICS CO., LTD.		
		BYD ELECTRONIC CO.,LTD.		
Li-ion Battery	HUAWEI	SCUD (Fujian) Electronics Co., Ltd.	HB2994I8ECW	Rated capacity: 7350mAh Nominal Voltage:  +3.82V Charging Voltage:  +4.40V
		SUNWODA Electronic Co., Ltd		
		Huizhou Desay Battery Co., Ltd		
USB Cable	-	HUIZHOU DEHONG TECHNOLOGY CO.,LTD.	330-50507	Signal Cable 5V~12V/3A USB2.0 USB-A to USB-C Charge Data Cable,1.0m,USB-C (24AWG+30AWG*2C+ 24AWG+2*28AWG Drain)*3.1mm,USB-A
		NingBo Broad Telecommunication Co.,Ltd.	CUDU01B-HC295-EH	
		HONGFUJIN PRECISION INDUSTRIAL(SHEN ZHEN).LTD	WA0020	
		Dongguan Mingji Electronics Technology Group Co.,Ltd	L99UC131-CS-H	
		Freeport Resources Enterprises (Jiangxi) Co.,Ltd	18-93C2CHO-001HF	
		LUXSHARE Precision Industry Co., Ltd.	203-1572-0	
HUAWEI Smart Dock for MediaPad M5 lite (10.1-inch)	HUAWEI	-	C-Bach2-Cradle	DC 9V,2A max

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode
Mode 2	TX Mode Channel 39 _3Mbps

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 2	TX Mode Channel 39 _3Mbps

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 2	TX Mode Channel 39 _3Mbps

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode

Note:

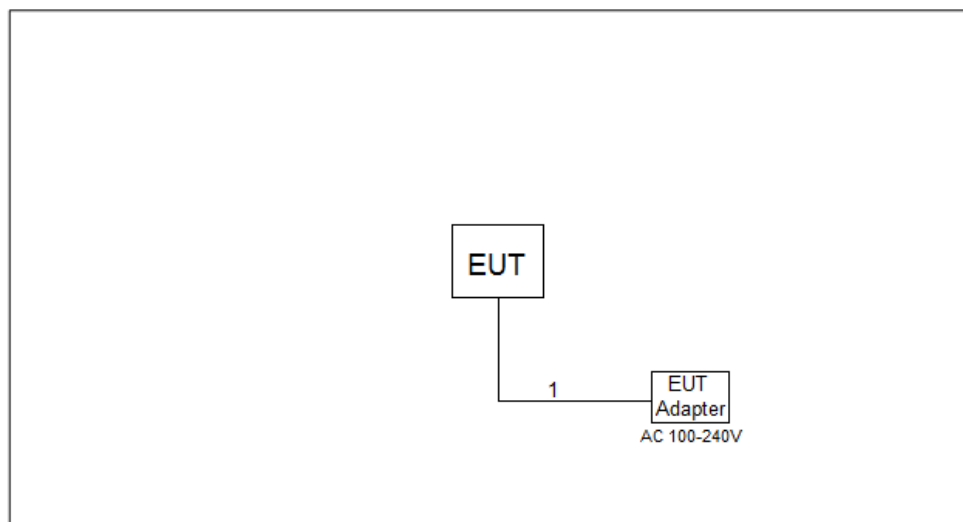
- (1) Radiated Emissions of middle channel is performed and Band edge of high and low channels are performed.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Maximum Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.
- (3) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

3.3 PARAMETERS OF TEST SOFTWARE

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	BT RF Auth1.0		
Frequency (MHz)	2402	2441	2480
Parameters(1Mbps)	N/A	N/A	N/A
Parameters(3Mbps)	N/A	N/A	N/A

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1m	DC Cable

4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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

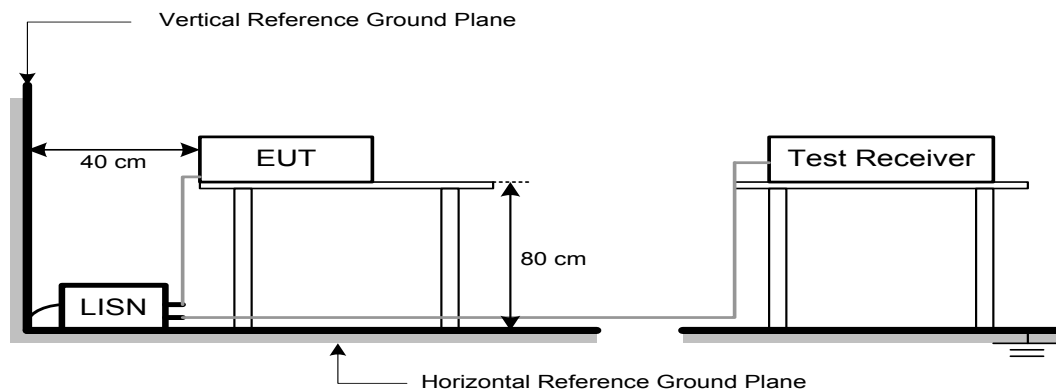
4.2 TEST PROCEDURE

- 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.

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP



4.5 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 data or hopping on mode.

4.6 EUT TEST CONDITIONS

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

4.7 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 150 kHz to 30 MHz.

5. RADIATED EMISSION TEST

5.1 LIMIT

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.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

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

Note:

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

(5)

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	RBW 1 MHz VBW 3 MHz peak detector for Pk value RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector

5.2 TEST PROCEDURE

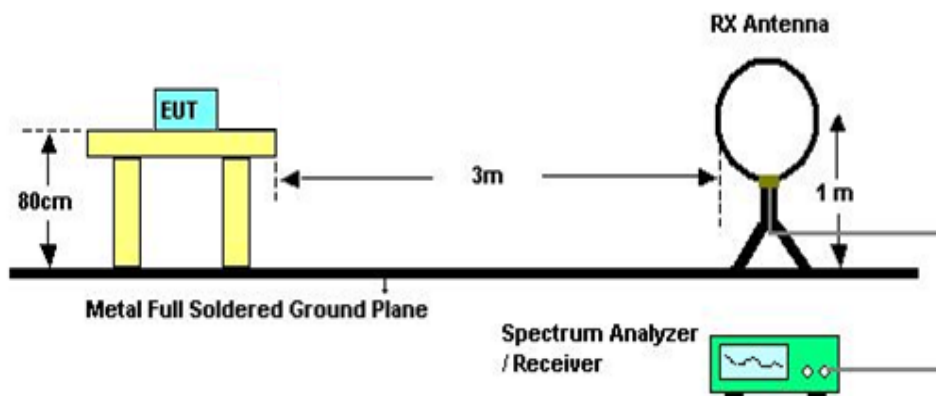
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.3 DEVIATION FROM TEST STANDARD

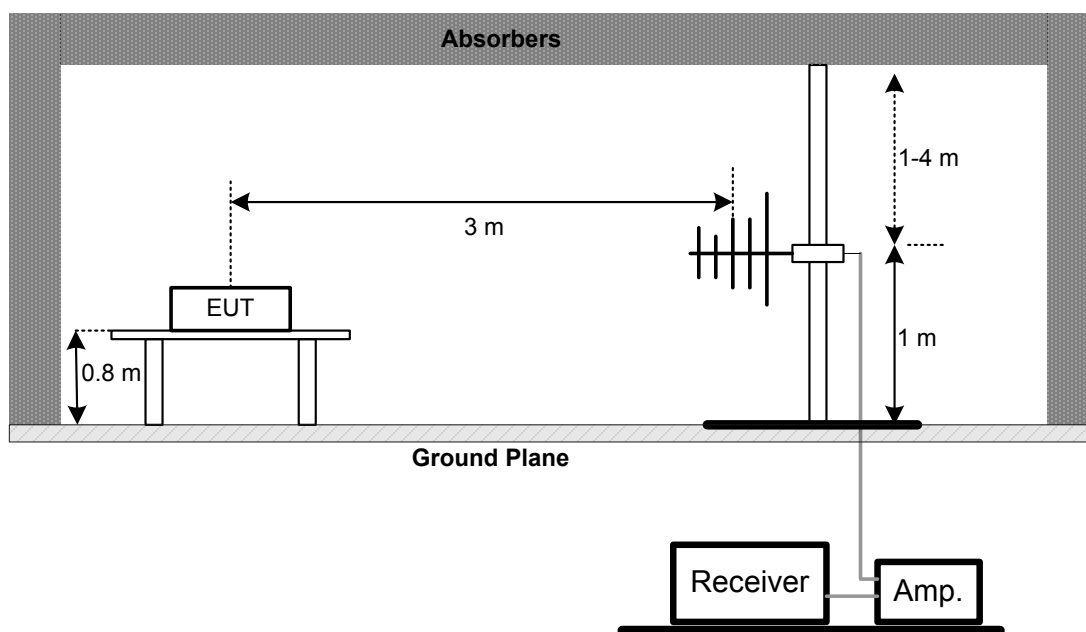
No deviation

5.4 TEST SETUP

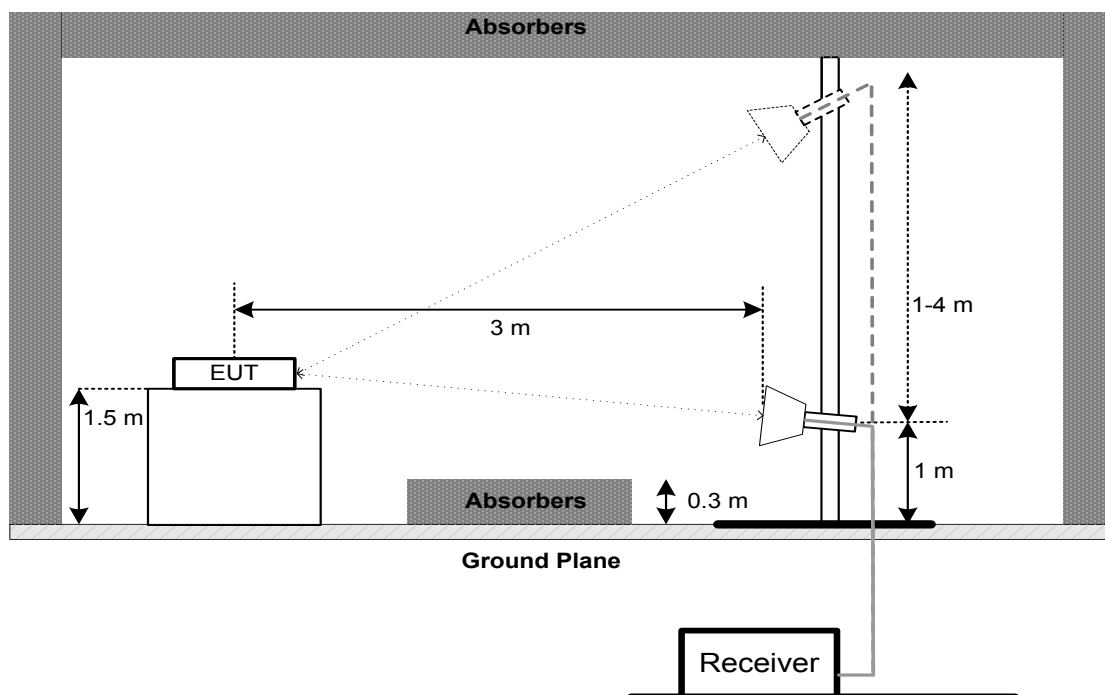
9 kHz-30 MHz



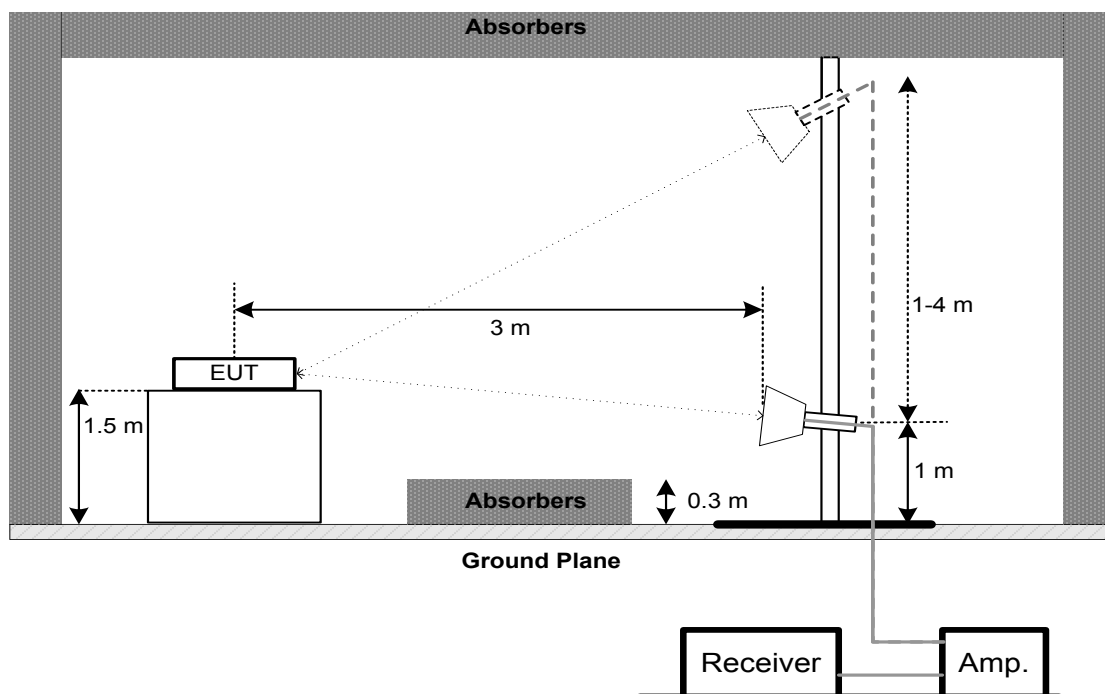
30 MHz to 1 GHz



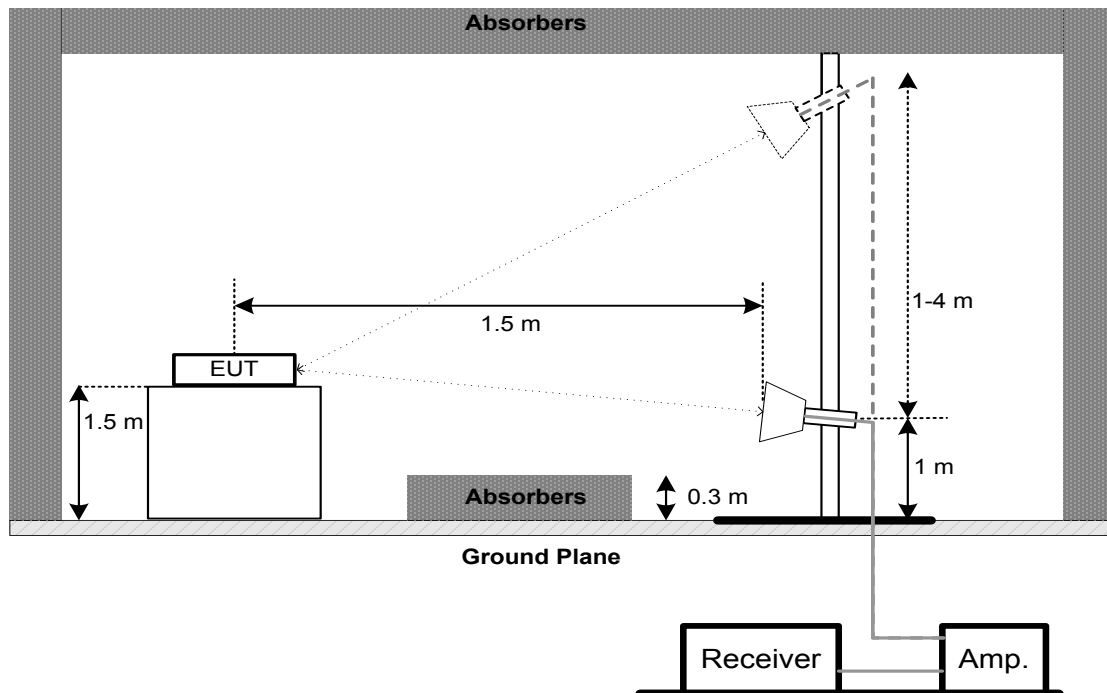
Band edge



Harmonic (1 GHz to 18 GHz)



Harmonic (Above 18 GHz)



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 68% Test Voltage: AC 120V/60Hz

5.7 TEST RESULTS - 9 kHz TO 30 MHz

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.
- (3) For radiated emissions below 1GHz, all adapters had been pre-tested and in this report only recorded the worst case (Salcomp).

5.8 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

Remark:

- (1) For radiated emissions below 1GHz, all adapters had been pre-tested and in this report only recorded the worst case (Salcomp).

5.9 TEST RESULTS - ABOVE 1000 MHz

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.

6. NUMBER OF HOPPING FREQUENCY

6.1 LIMIT

FCC Part15, Subpart C (15.247)	
Section	Test Item
15.247(a)(1)(iii)	Number of Hopping Frequency

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

6.2 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=100 kHz, VBW=100 kHz, Sweep time = Auto.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 EUT TEST CONDITIONS

Temperature: 25.9°C Relative Humidity: 57.4% Test Voltage: AC 120V/60Hz

6.7 TEST RESULTS

Please refer to the APPENDIX E

7. AVERAGE TIME OF OCCUPANCY

7.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(1)(iii)	Average Time of Occupancy	0.4sec

7.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz
- 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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 EUT TEST CONDITIONS

Temperature: 25.9°C Relative Humidity: 57.4% Test Voltage: AC 120V/60Hz

7.7 TEST RESULTS

Please refer to the APPENDIX F

8. HOPPING CHANNEL SEPARATION MEASUREMENT

8.1 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, provided the systems operate with an output power no greater than 125 mW.

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

8.2 TEST PROCEDURE

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

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 EUT TEST CONDITIONS

Temperature: 25.9°C Relative Humidity: 57.4% Test Voltage: AC 120V/60Hz

8.7 TEST RESULTS

Please refer to the APPENDIX G

9. BANDWIDTH TEST

9.1 LIMIT

FCC Part15, Subpart C (15.247)	
Section	Test Item
15.247(a)(1)	Bandwidth

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

9.2 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= 30 kHz, VBW=100 kHz, Sweep Time = Auto.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

9.6 EUT TEST CONDITIONS

Temperature: 25.9°C Relative Humidity: 57.4% Test Voltage: AC 120V/60Hz

9.7 TEST RESULTS

Please refer to the APPENDIX H

10. MAXIMUM OUTPUT POWER

10.1 LIMIT

FCC Part15 , Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(1)	Maximum Output Power	0.125Watt or 21dBm

Note: Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

10.2 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= 1 MHz/3 MHz, VBW= 1 MHz/3 MHz, Sweep time = Auto.

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 TEST SETUP



10.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

10.6 EUT TEST CONDITIONS

Temperature: 25.9°C Relative Humidity: 57.4% Test Voltage: AC 120V/60Hz

10.7 TEST RESULTS

Please refer to the APPENDIX I

11. CONDUCTED SPURIOUS EMISSION

11.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

11.2 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= 100 kHz, VBW=100 kHz, Sweep time = Auto.

11.3 DEVIATION FROM STANDARD

No deviation.

11.4 TEST SETUP



11.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

11.6 EUT TEST CONDITIONS

Temperature: 25.9°C Relative Humidity: 57.4% Test Voltage: AC 120V/60Hz

11.7 TEST RESULTS

Please refer to the APPENDIX J

12. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
4	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Mar. 10, 2020
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Cable	N/A	RG223	12m	Mar. 12, 2020

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 25, 2019
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

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Number of Hopping Frequency

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Average Time of Occupancy

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Hopping Channel Separation Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Bandwidth

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Maximum Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Antenna Conducted Spurious Emission

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

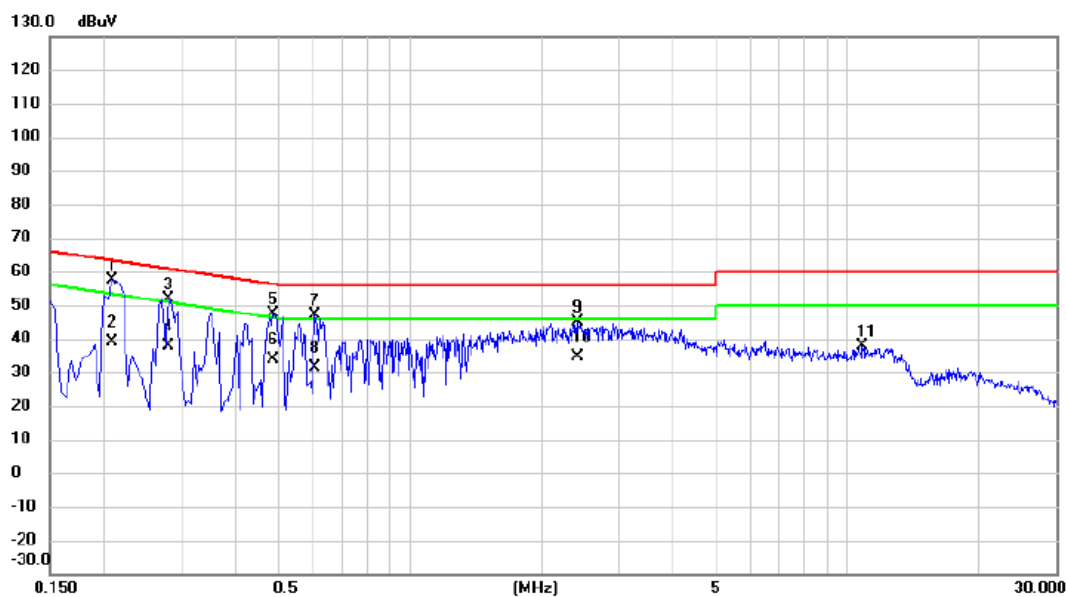
Remark "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX Mode Channel 39_3Mbps

Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.208	47.12	10.48	57.60	63.26	-5.66	peak	
2		0.208	28.70	10.48	39.18	53.26	-14.08	AVG	
3		0.281	41.52	10.48	52.00	60.80	-8.80	peak	
4		0.281	27.20	10.48	37.68	50.80	-13.12	AVG	
5		0.487	36.77	10.50	47.27	56.21	-8.94	peak	
6		0.487	23.30	10.50	33.80	46.21	-12.41	AVG	
7		0.605	36.50	10.52	47.02	56.00	-8.98	peak	
8		0.605	20.70	10.52	31.22	46.00	-14.78	AVG	
9		2.418	34.33	10.66	44.99	56.00	-11.01	peak	
10		2.418	24.12	10.66	34.78	46.00	-11.22	AVG	
11		10.802	26.80	10.94	37.74	60.00	-22.26	peak	

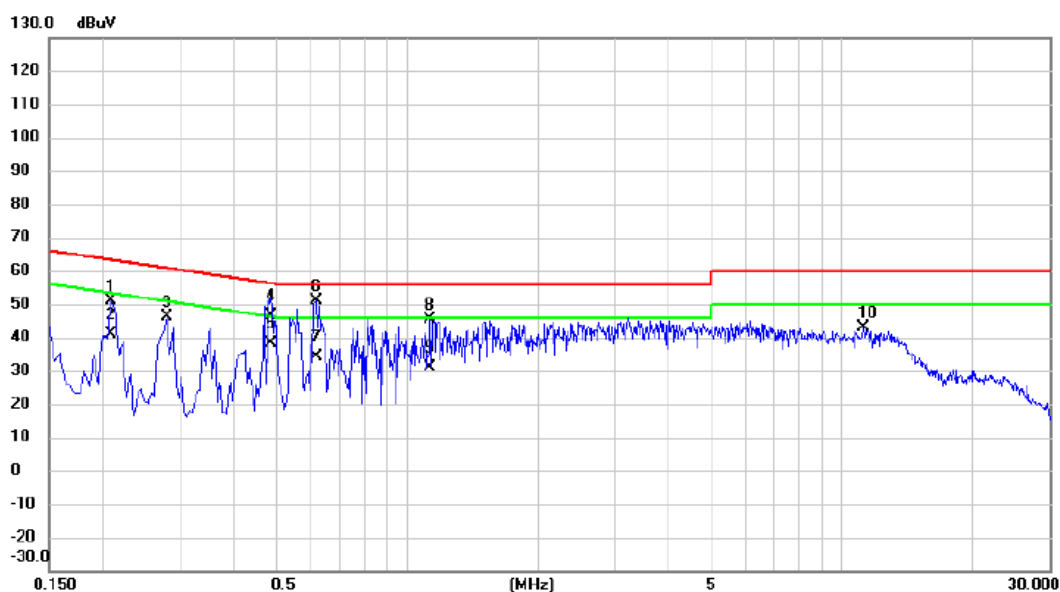
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.208	40.74	10.45	51.19	63.26	-12.07	peak	
2		0.208	30.66	10.45	41.11	53.26	-12.15	AVG	
3		0.281	35.60	10.46	46.06	60.80	-14.74	peak	
4		0.487	36.20	10.49	46.69	56.21	-9.52	QP	
5		0.487	27.80	10.49	38.29	46.21	-7.92	AVG	
6	*	0.618	40.46	10.49	50.95	56.00	-5.05	peak	
7		0.618	23.90	10.49	34.39	46.00	-11.61	AVG	
8		1.131	34.80	10.52	45.32	56.00	-10.68	peak	
9		1.131	20.40	10.52	30.92	46.00	-15.08	AVG	
10		11.202	32.15	10.92	43.07	60.00	-16.93	peak	

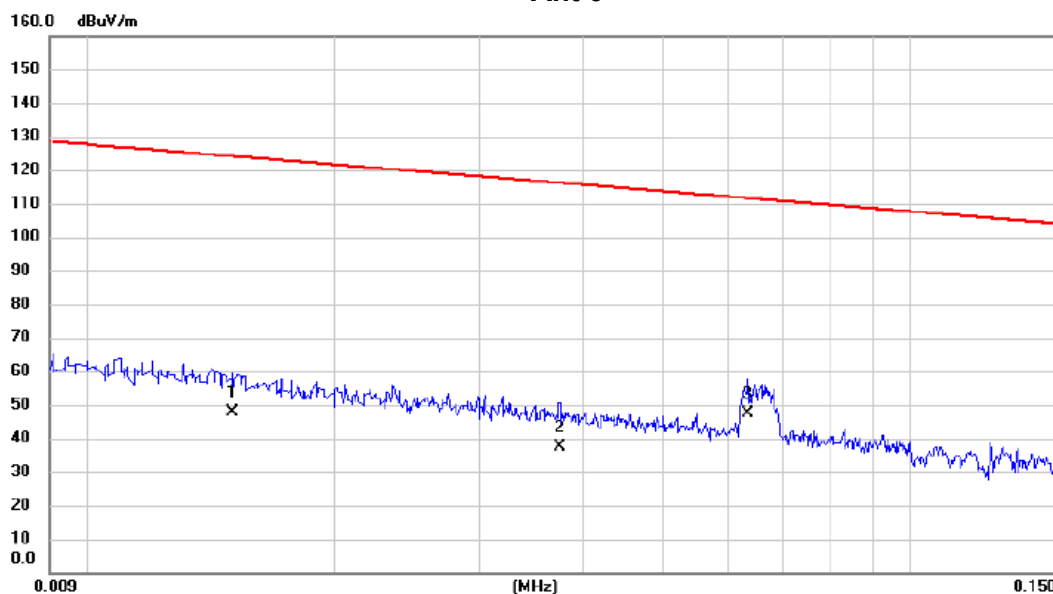
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION - 9 KHZ-30 MHZ

Test Mode: TX Mode Channel 39 _3Mbps (4GB+64GB)

Ant 0°



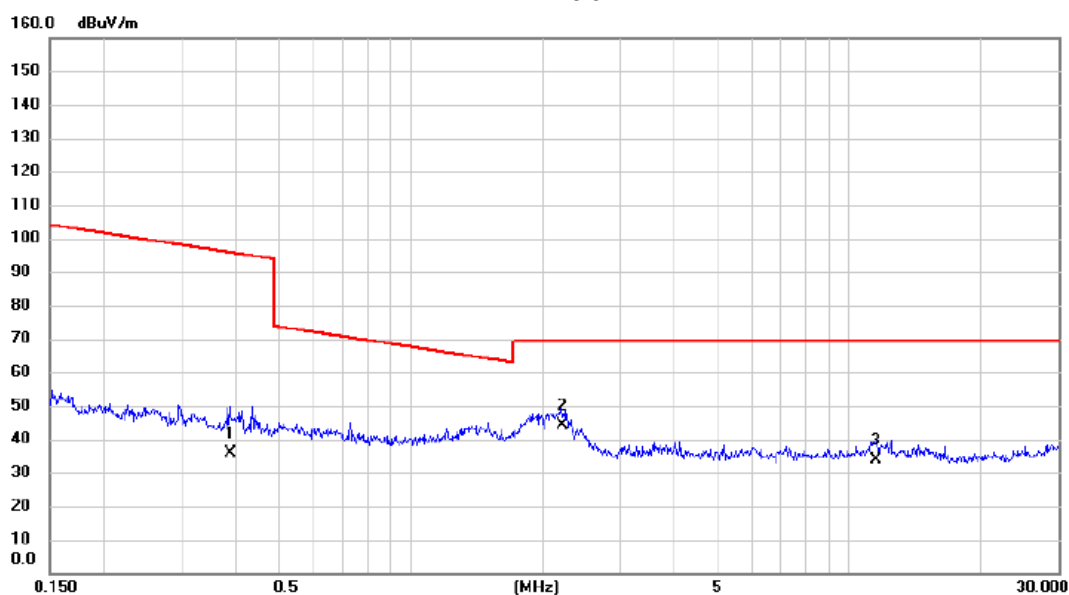
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0150	32.60	15.32	47.92	124.08	-76.16	AVG	
2		0.0375	23.40	13.89	37.29	116.12	-78.83	AVG	
3	*	0.0635	33.80	13.71	47.51	111.55	-64.04	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (4GB+64GB)

Ant 0°



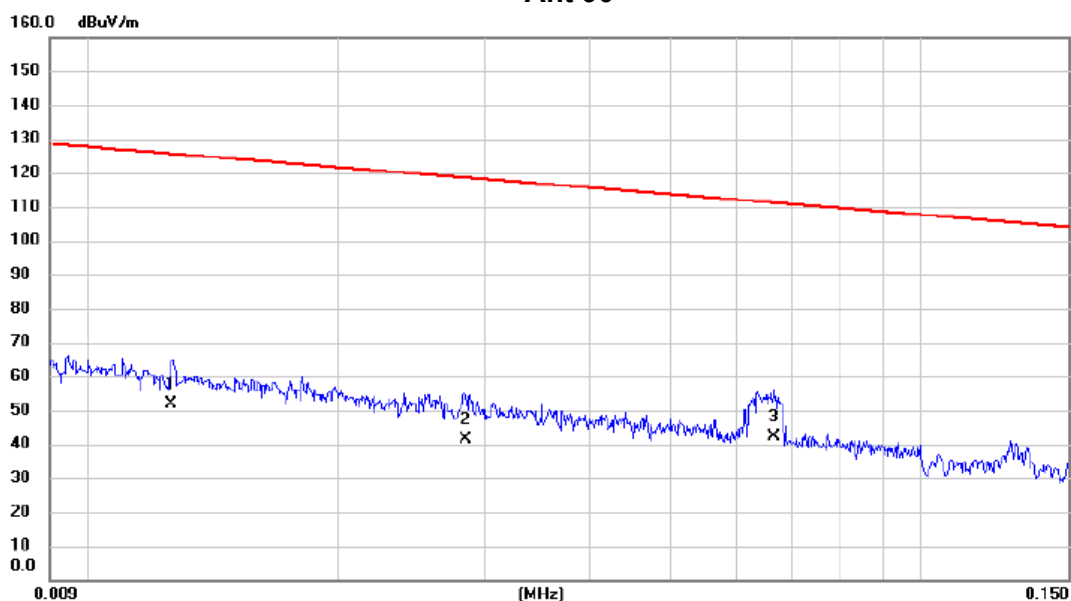
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3871	22.40	13.33	35.73	95.85	-60.12	AVG	
2	*	2.2132	32.70	11.69	44.39	69.54	-25.15	QP	
3		11.5594	22.00	11.61	33.61	69.54	-35.93	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (4GB+64GB)

Ant 90°



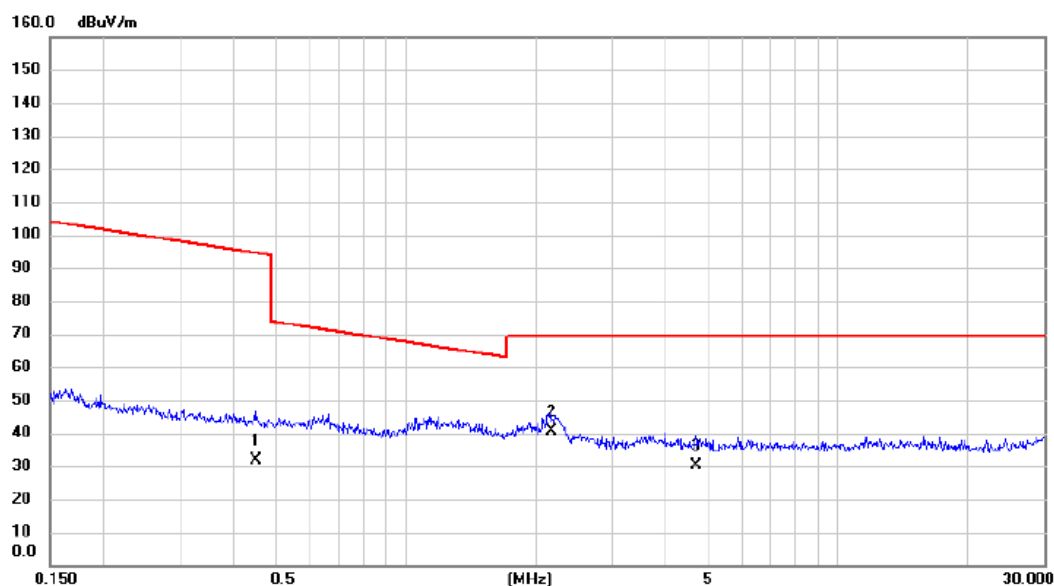
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0126	35.67	16.04	51.71	125.60	-73.89	AVG	
2		0.0284	27.60	13.85	41.45	118.54	-77.09	AVG	
3	*	0.0667	28.70	13.66	42.36	111.12	-68.76	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (4GB+64GB)

Ant 90°

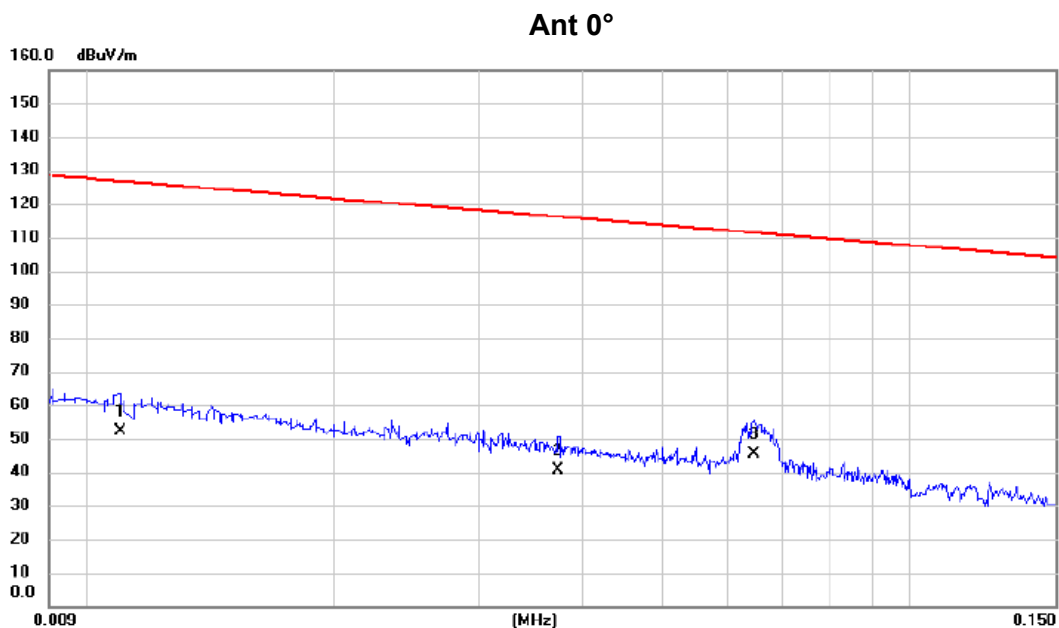


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4492	18.60	13.18	31.78	94.56	-62.78	AVG	
2	*	2.1668	29.00	11.72	40.72	69.54	-28.82	QP	
3		4.6964	19.30	10.89	30.19	69.54	-39.35	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (3GB+32GB)



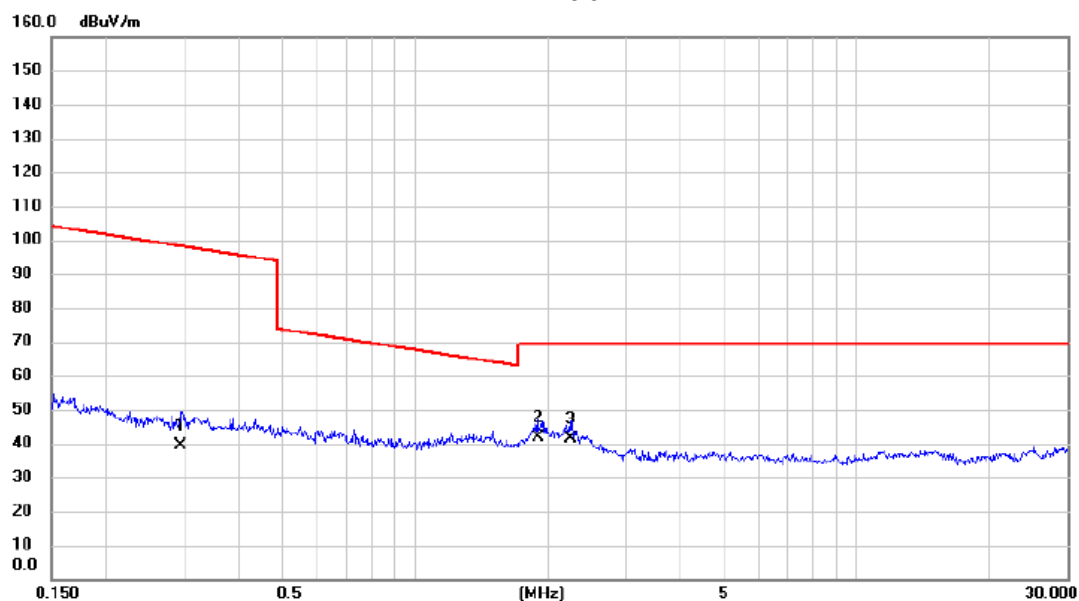
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.011	35.79	16.52	52.31	126.78	-74.47	AVG	
2		0.037	26.83	13.89	40.72	116.15	-75.43	AVG	
3	*	0.065	31.82	13.70	45.52	111.40	-65.88	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (3GB+32GB)

Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.295	26.01	13.55	39.56	98.19	-58.63	AVG	
2	*	1.898	30.02	11.88	41.90	69.54	-27.64	QP	
3		2.249	29.92	11.67	41.59	69.54	-27.95	QP	

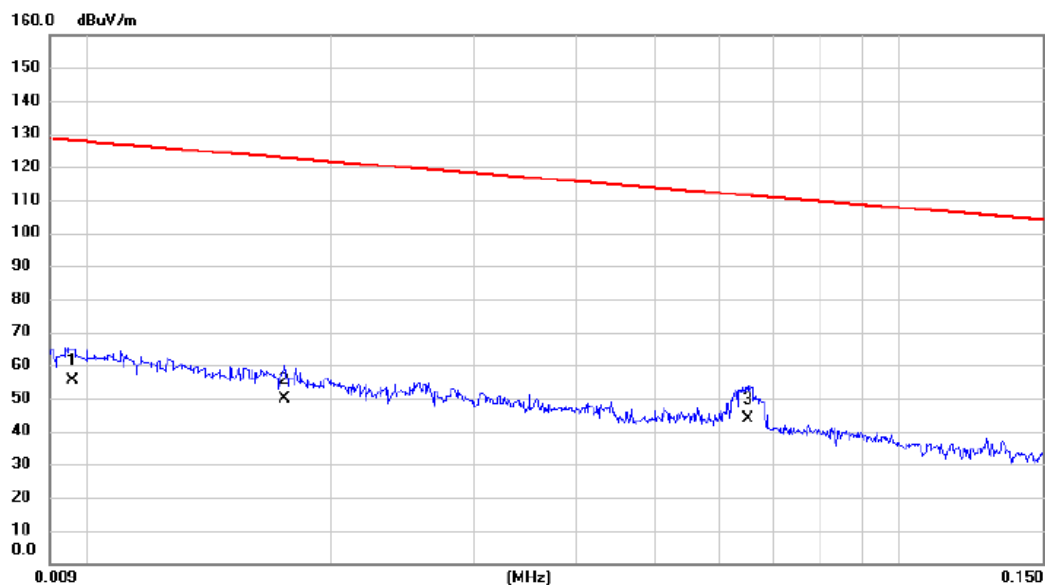
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (3GB+32GB)

Ant 90°



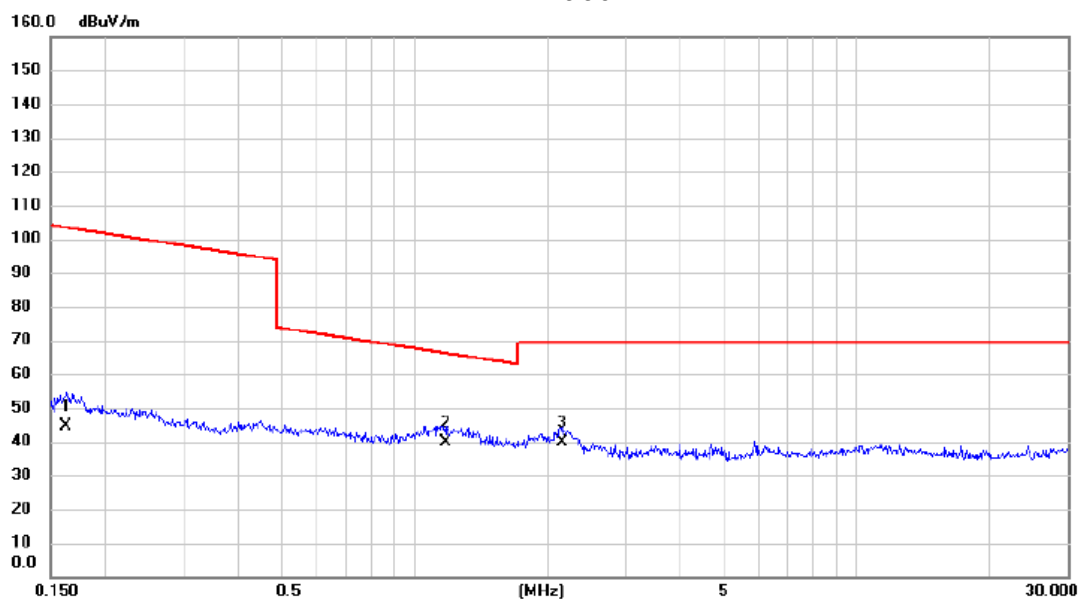
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.010	38.26	17.02	55.28	127.96	-72.68	AVG	
2		0.018	35.19	14.57	49.76	122.74	-72.98	AVG	
3	*	0.065	30.09	13.69	43.78	111.35	-67.57	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (3GB+32GB)

Ant 90°



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.163	30.93	13.57	44.50	103.35	-58.85	AVG	
2 *	1.172	27.38	12.38	39.76	66.23	-26.47	QP	
3	2.167	27.97	11.72	39.69	69.54	-29.85	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode: TX Mode Channel 39 _3Mbps (4GB+64GB)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		56.190	41.16	-15.07	26.09	40.00	-13.91	peak	
2		77.530	38.74	-18.49	20.25	40.00	-19.75	peak	
3		194.900	37.70	-14.75	22.95	43.50	-20.55	peak	
4		304.510	33.23	-10.43	22.80	46.00	-23.20	peak	
5		519.850	31.33	-7.31	24.02	46.00	-21.98	peak	
6 *		832.190	33.93	-1.54	32.39	46.00	-13.61	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (4GB+64GB)

Horizontal



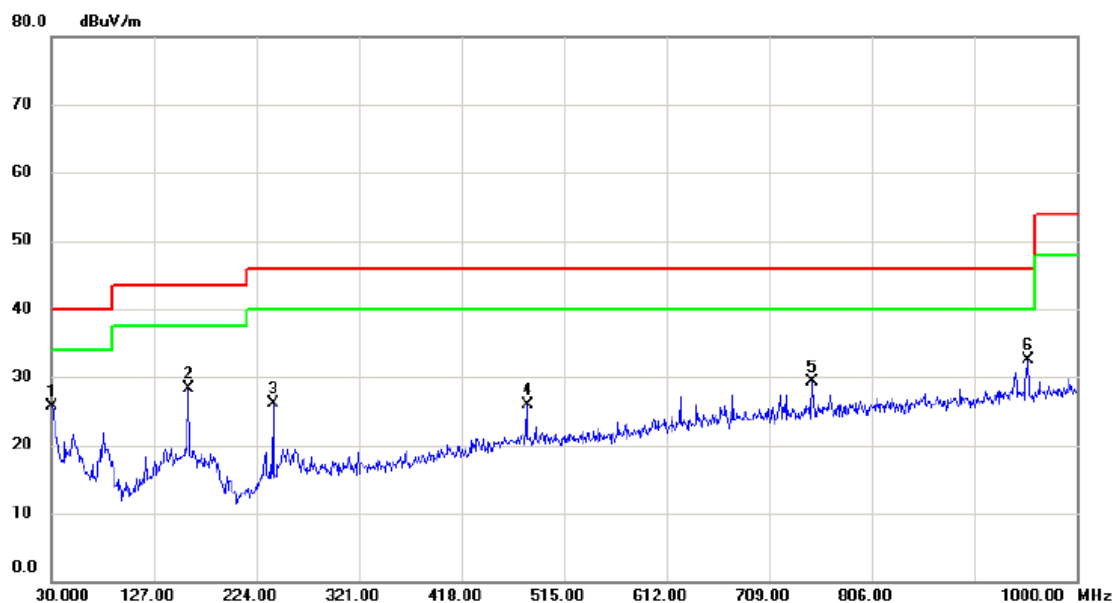
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	30.000	40.43	-14.97	25.46	40.00	-14.54	peak	
2		159.980	33.77	-10.60	23.17	43.50	-20.33	peak	
3		205.570	38.40	-15.22	23.18	43.50	-20.32	peak	
4		240.490	39.39	-14.66	24.73	46.00	-21.27	peak	
5		308.390	37.35	-10.49	26.86	46.00	-19.14	peak	
6		480.080	35.78	-8.08	27.70	46.00	-18.30	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (3GB+32GB)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.000	40.63	-15.02	25.61	40.00	-14.39	peak	
2		159.980	39.29	-11.07	28.22	43.50	-15.28	peak	
3		240.005	40.14	-14.06	26.08	46.00	-19.92	peak	
4		480.080	33.74	-7.91	25.83	46.00	-20.17	peak	
5		750.225	33.02	-3.67	29.35	46.00	-16.65	peak	
6	*	953.925	33.13	-0.65	32.48	46.00	-13.52	peak	

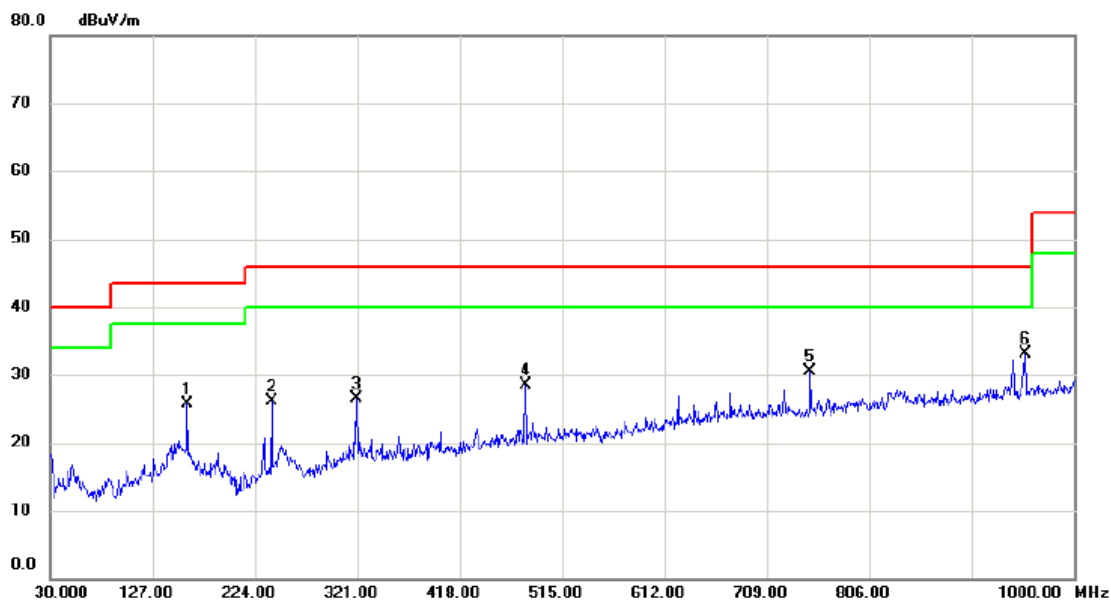
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX Mode Channel 39 _3Mbps (3GB+32GB)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		159.980	36.85	-11.07	25.78	43.50	-17.72	peak	
2		240.005	40.24	-14.06	26.18	46.00	-19.82	peak	
3		320.030	37.64	-11.22	26.42	46.00	-19.58	peak	
4		480.080	36.45	-7.91	28.54	46.00	-17.46	peak	
5		750.225	34.08	-3.67	30.41	46.00	-15.59	peak	
6	*	953.925	33.67	-0.65	33.02	46.00	-12.98	peak	

REMARKS:

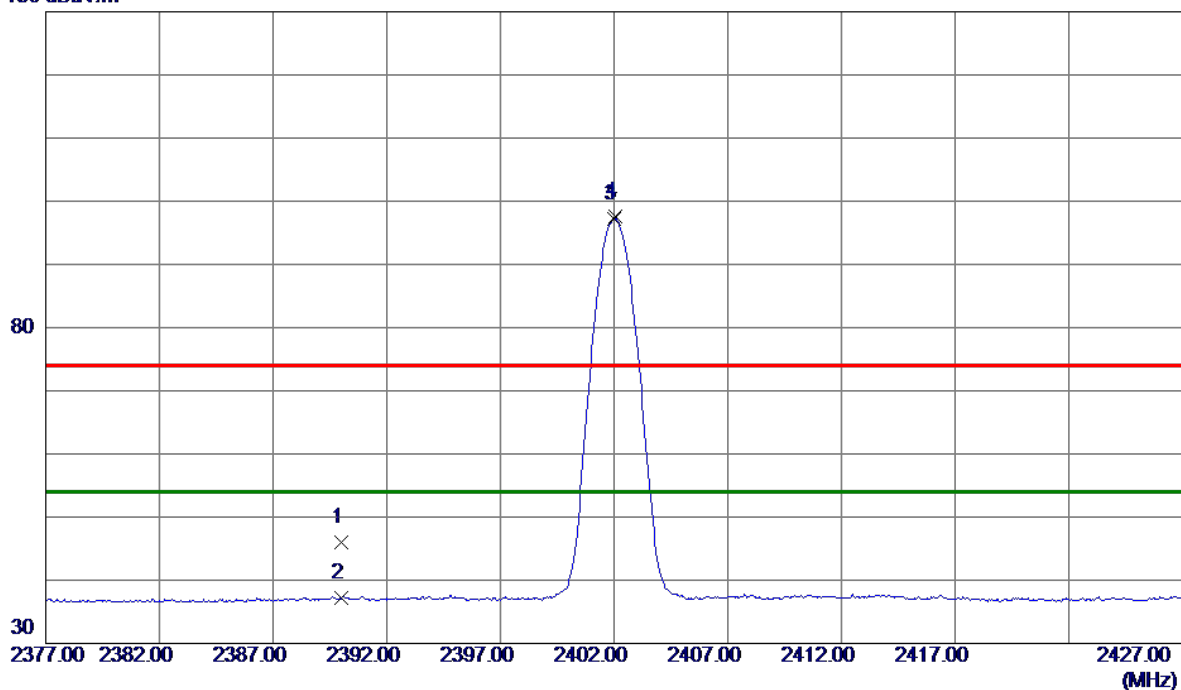
- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Mode: TX 2402 MHz _CH00_1Mbps (4GB+64GB)

Vertical

130 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	39.06	7.01	46.07	74.00	-27.93	Peak	
2	2390.0000	30.19	7.01	37.20	54.00	-16.80	AVG	
3 *	2402.0250	90.20	7.01	97.21	54.00	43.21	AVG	No Limit
4	2402.0750	90.67	7.01	97.68	74.00	23.68	Peak	No Limit

REMARKS:

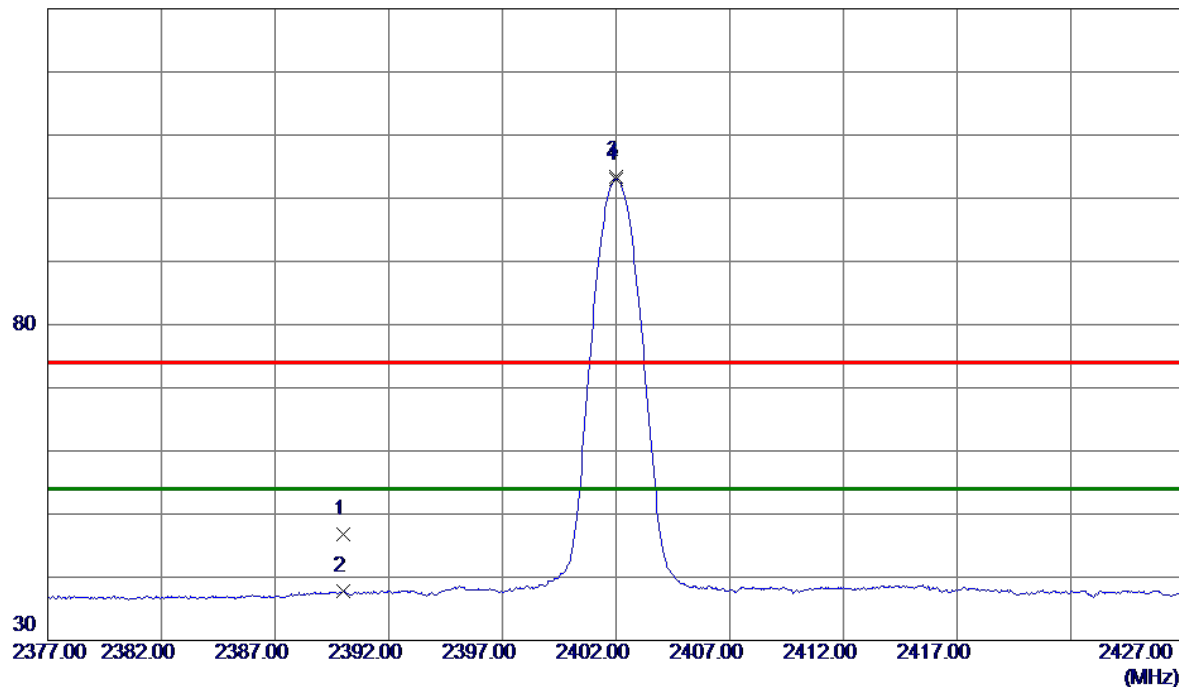
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2402 MHz _CH00_1Mbps (4GB+64GB)

Horizontal

130 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	39.84	7.01	46.85	74.00	-27.15	Peak	
2	2390.0000	30.71	7.01	37.72	54.00	-16.28	AVG	
3	2401.9750	96.49	7.01	103.50	74.00	29.50	Peak	No Limit
4 *	2402.0000	96.08	7.01	103.09	54.00	49.09	AVG	No Limit

REMARKS:

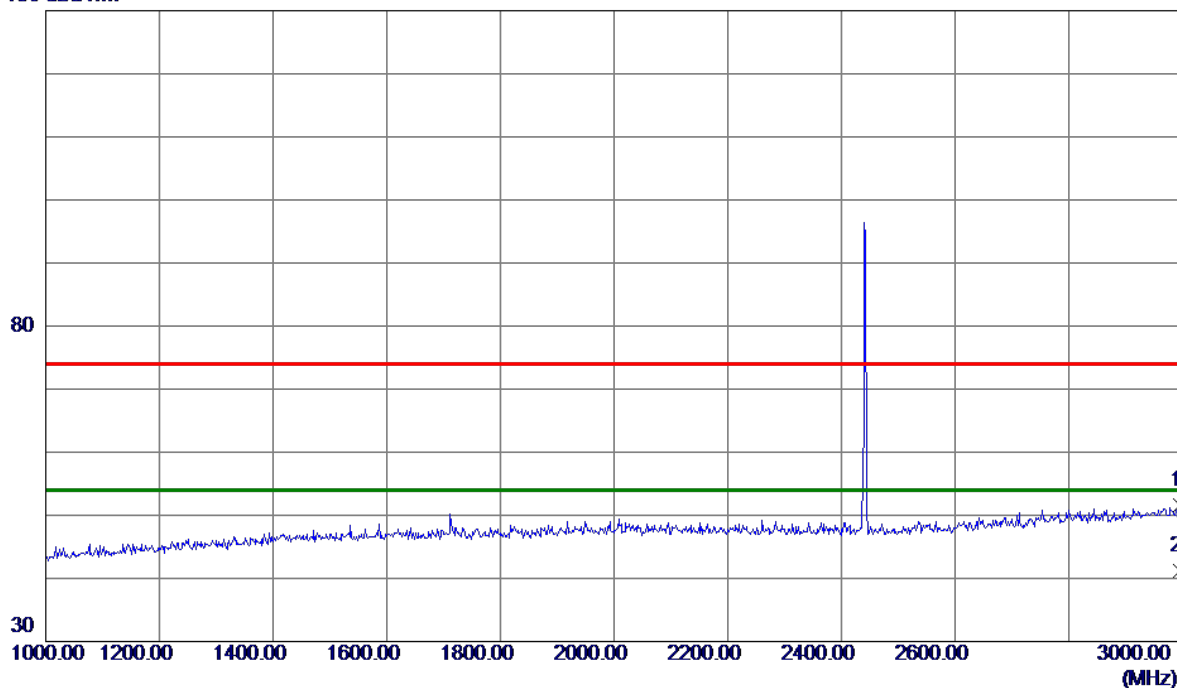
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 1Mbps (4GB+64GB)
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Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2995.0000	41.06	10.61	51.67	74.00	-22.33	Peak	
2 *	2995.0000	30.55	10.61	41.16	54.00	-12.84	AVG	

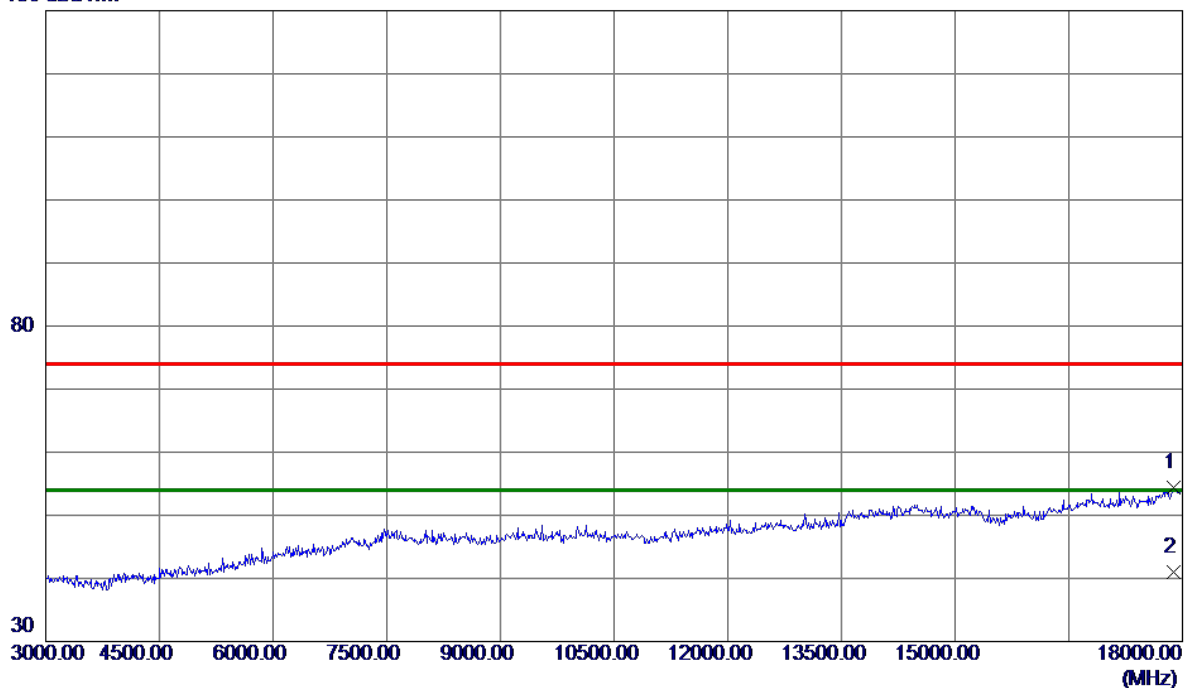
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 1Mbps (4GB+64GB)
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Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	17880.0000	32.08	22.27	54.35	74.00	-19.65	Peak	
2 *	17880.0000	18.67	22.27	40.94	54.00	-13.06	AVG	

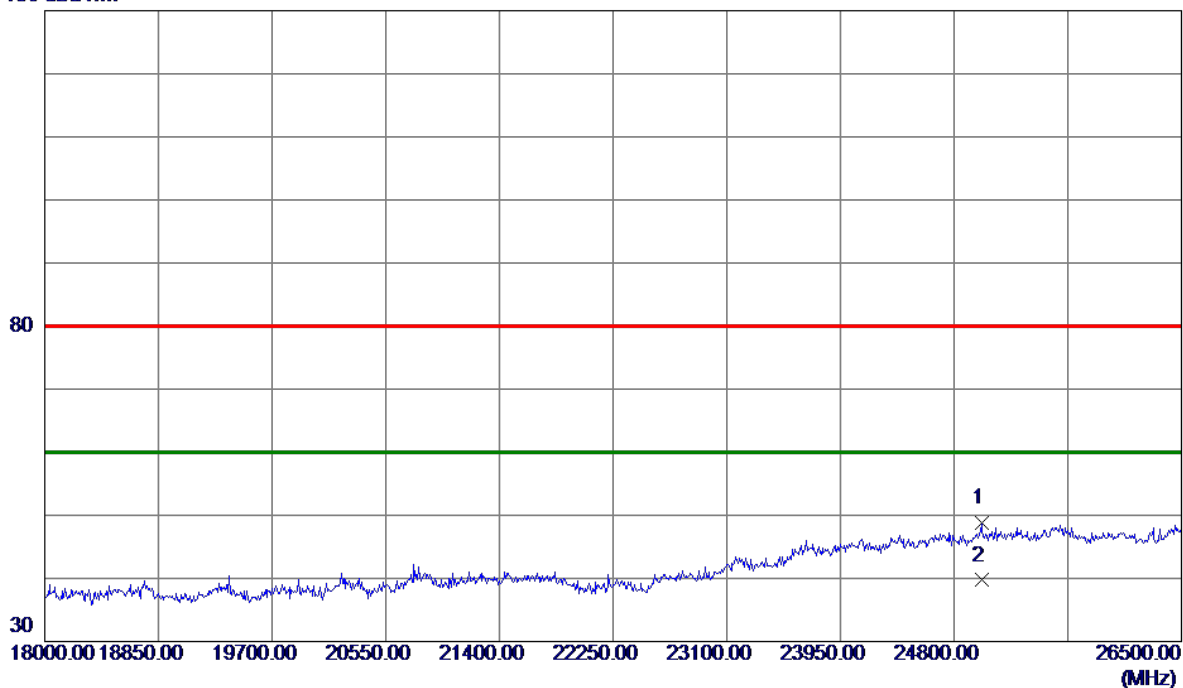
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 1Mbps (4GB+64GB)
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Vertical

130 dBuV/m



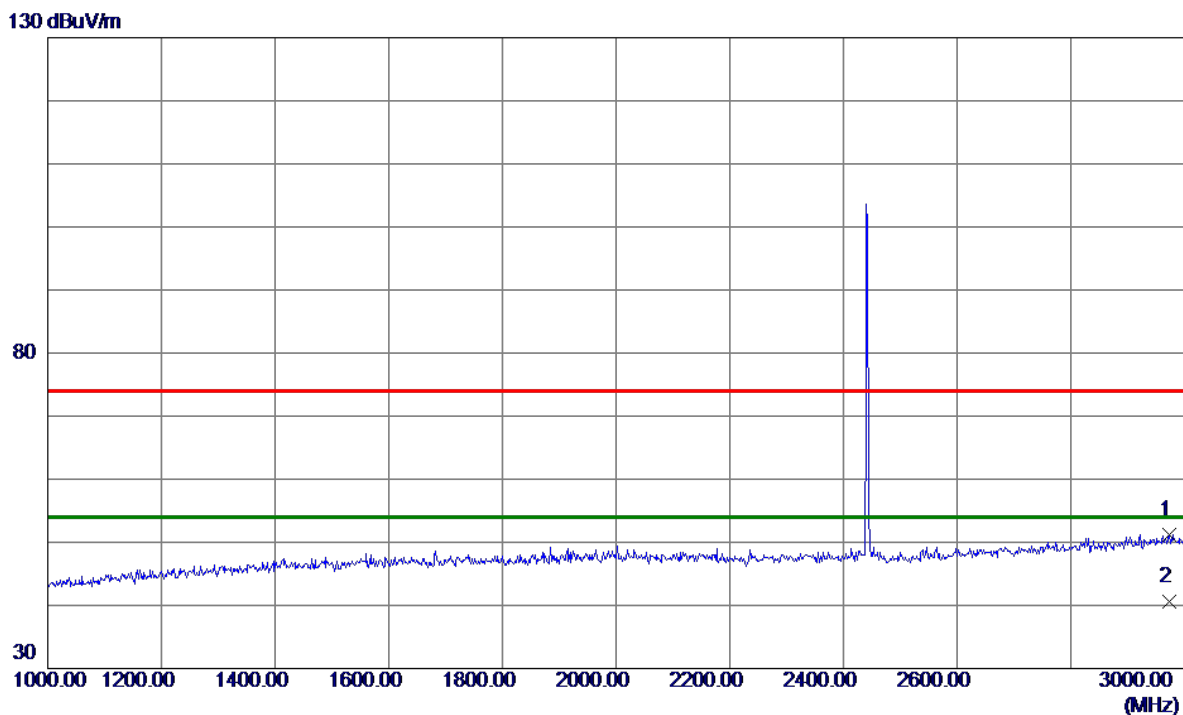
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	25008.2500	29.04	19.68	48.72	80.00	-31.28	Peak	
2 *	25008.2500	20.02	19.68	39.70	60.00	-20.30	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_1Mbps (4GB+64GB)
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Horizontal



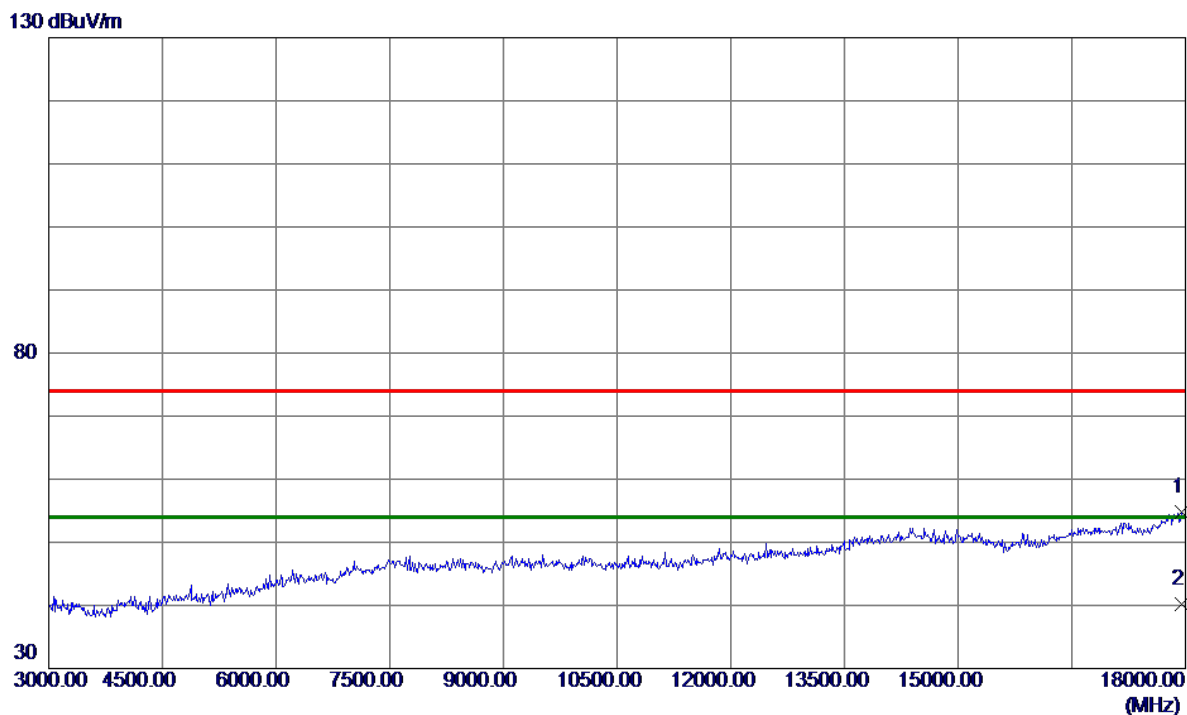
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2973.0000	40.82	10.45	51.27	74.00	-22.73	Peak	
2 *	2973.0000	30.12	10.45	40.57	54.00	-13.43	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 1Mbps (4GB+64GB)
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	17947.5000	32.29	22.50	54.79	74.00	-19.21	Peak	
2 *	17947.5000	17.64	22.50	40.14	54.00	-13.86	AVG	

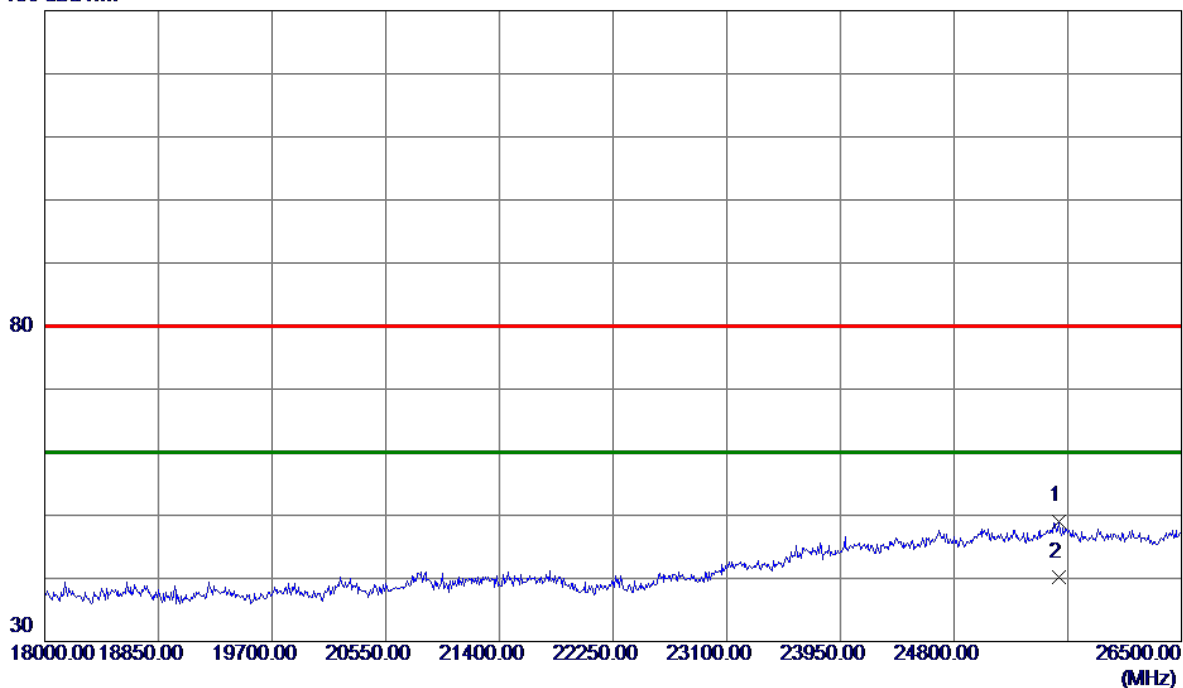
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 1Mbps (4GB+64GB)
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Horizontal

130 dBuV/m



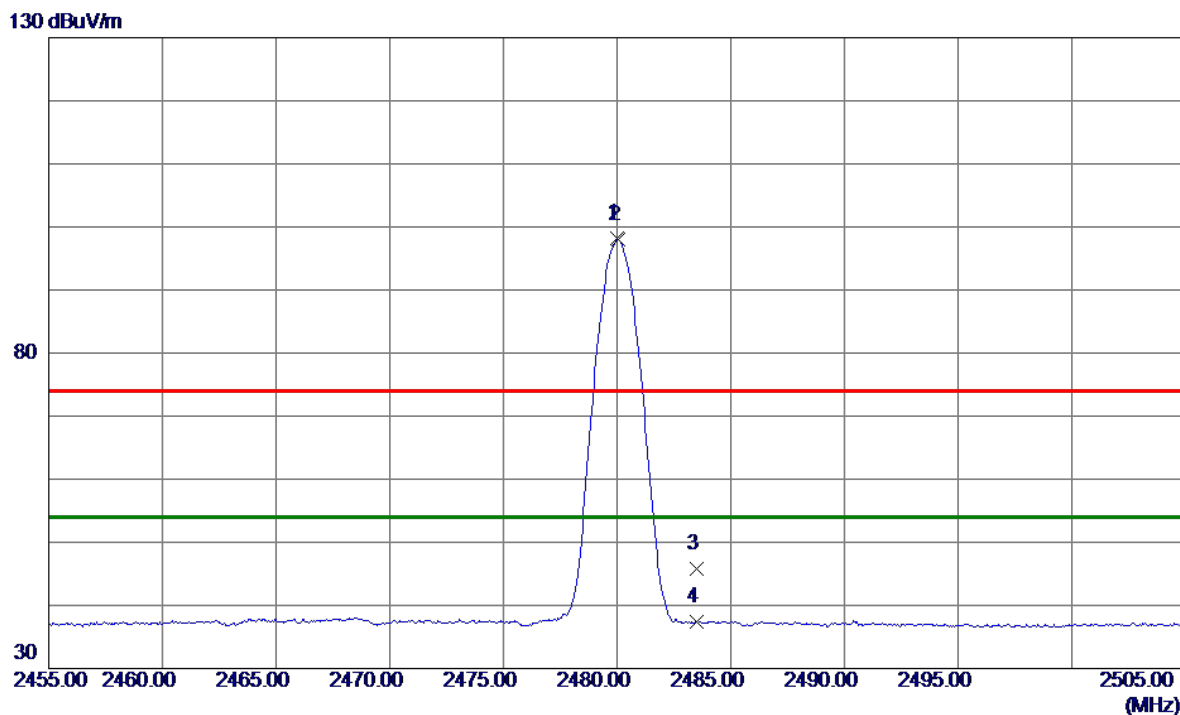
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	25582.0000	29.11	19.99	49.10	80.00	-30.90	Peak	
2 *	25582.0000	20.29	19.99	40.28	60.00	-19.72	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2480 MHz _CH78_1Mbps (4GB+64GB)

Vertical



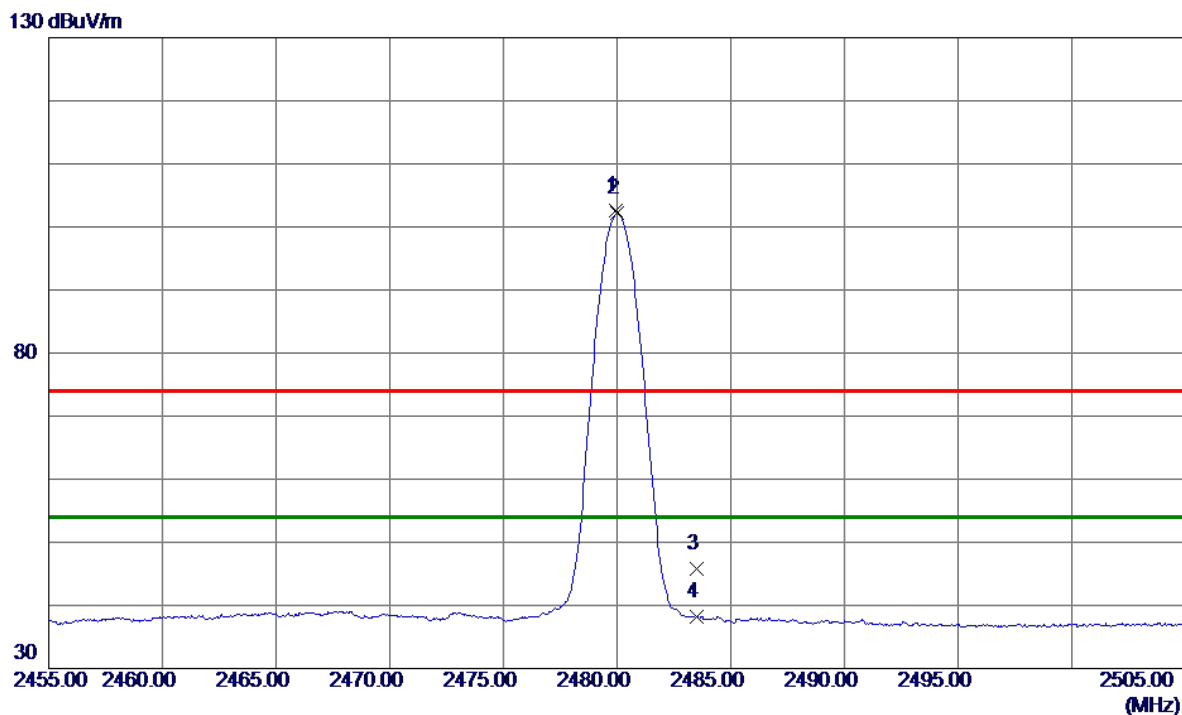
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0250	91.26	7.03	98.29	74.00	24.29	Peak	No Limit
2 *	2480.0500	90.89	7.03	97.92	54.00	43.92	AVG	No Limit
3	2483.5000	38.80	7.03	45.83	74.00	-28.17	Peak	
4	2483.5000	30.34	7.03	37.37	54.00	-16.63	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2480 MHz _CH78_ 1Mbps (4GB+64GB)

Horizontal



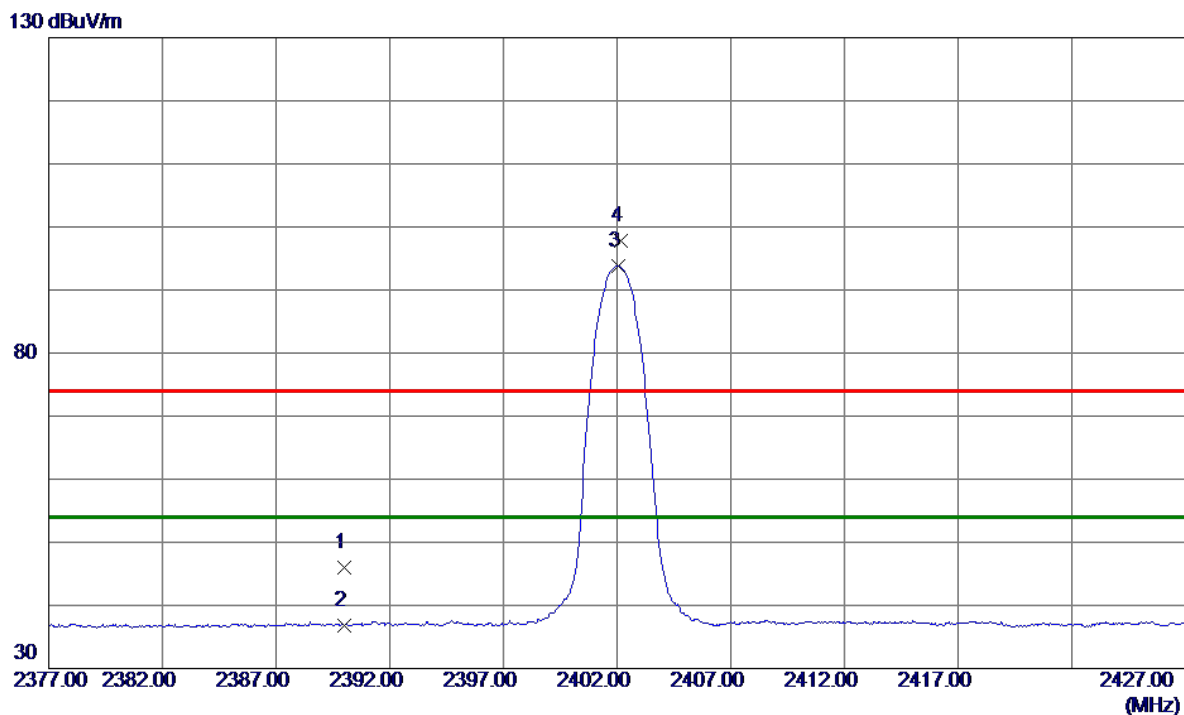
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.9500	95.48	7.03	102.51	74.00	28.51	Peak	No Limit
2 *	2480.0250	95.11	7.03	102.14	54.00	48.14	AVG	No Limit
3	2483.5000	38.80	7.03	45.83	74.00	-28.17	Peak	
4	2483.5000	31.08	7.03	38.11	54.00	-15.89	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2402 MHz _CH00_ 3Mbps (4GB+64GB)
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Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	39.02	7.01	46.03	74.00	-27.97	Peak	
2	2390.0000	29.82	7.01	36.83	54.00	-17.17	AVG	
3 *	2402.0500	86.86	7.01	93.87	54.00	39.87	AVG	No Limit
4	2402.1750	90.73	7.01	97.74	74.00	23.74	Peak	No Limit

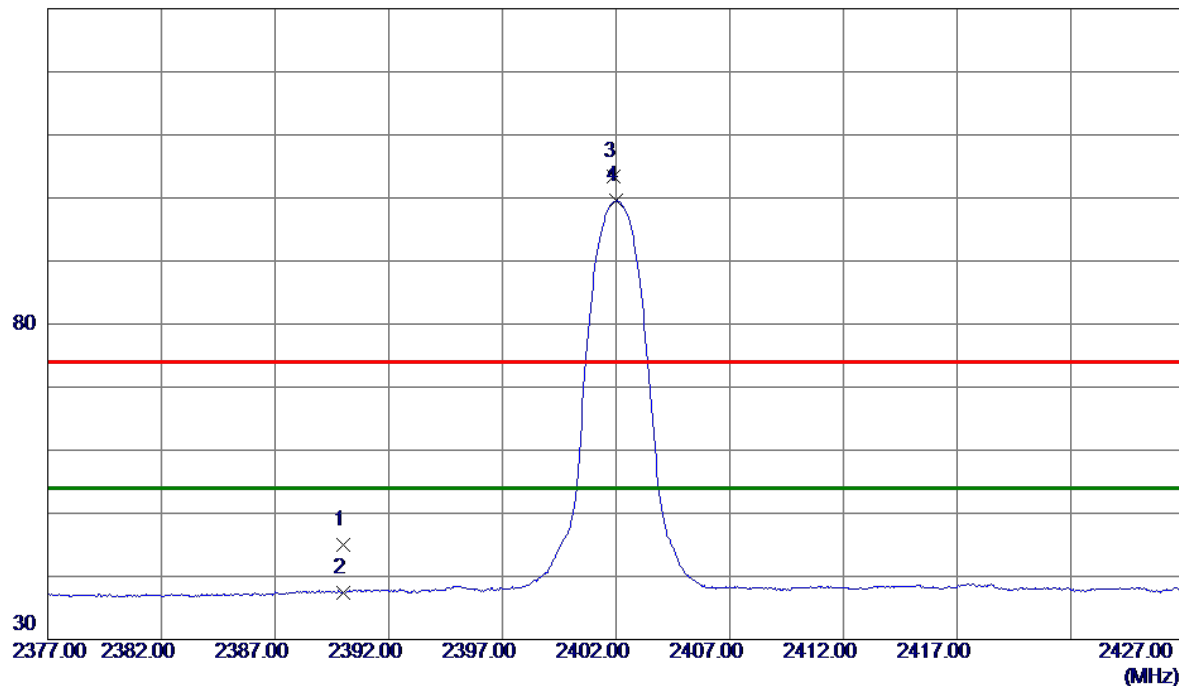
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2402 MHz _CH00_ 3Mbps (4GB+64GB)

Horizontal

130 dBuV/m



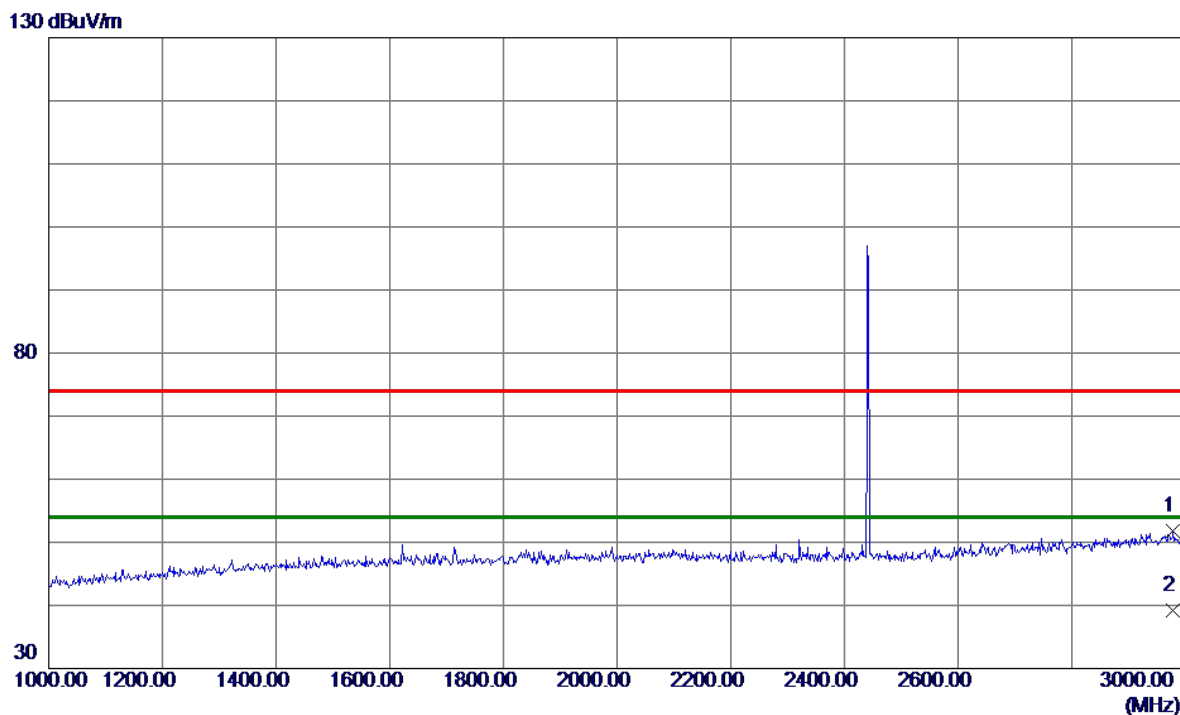
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	37.97	7.01	44.98	74.00	-29.02	Peak	
2	2390.0000	30.44	7.01	37.45	54.00	-16.55	AVG	
3	2401.8750	96.39	7.01	103.40	74.00	29.40	Peak	No Limit
4 *	2402.0250	92.51	7.01	99.52	54.00	45.52	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (4GB+64GB)
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2978.0000	41.33	10.49	51.82	74.00	-22.18	Peak	
2 *	2978.0000	28.65	10.49	39.14	54.00	-14.86	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (4GB+64GB)
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Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	18000.0000	32.66	22.67	55.33	74.00	-18.67	Peak	
2 *	18000.0000	18.20	22.67	40.87	54.00	-13.13	AVG	

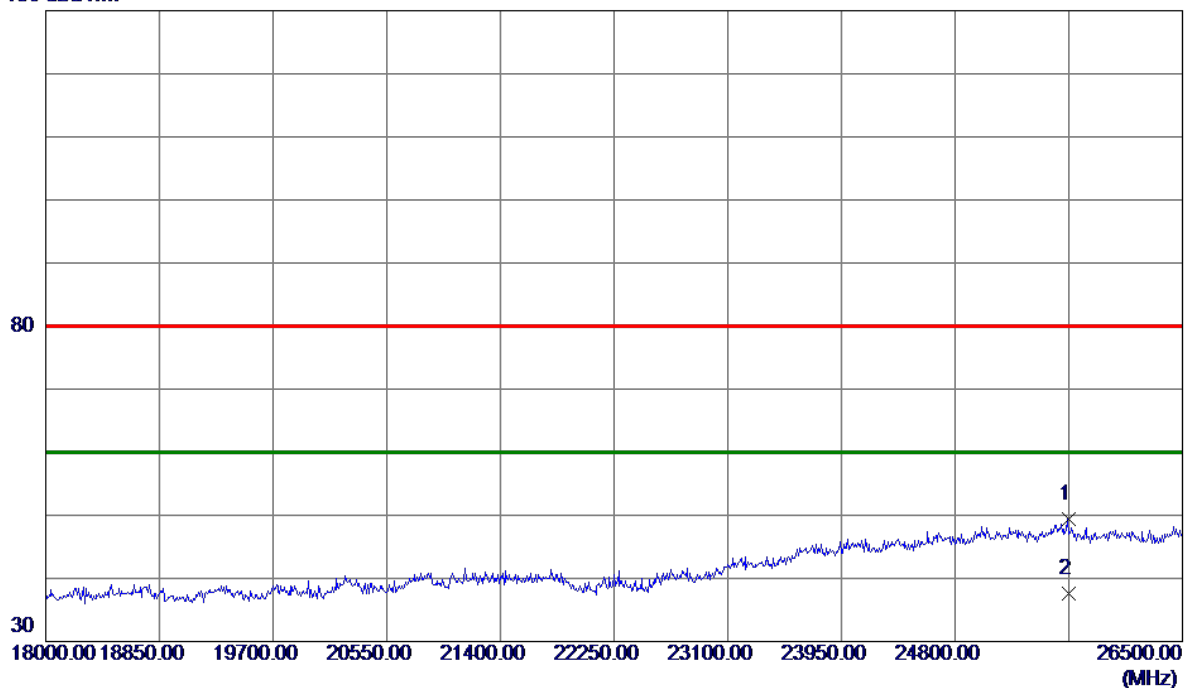
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (4GB+64GB)
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Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	25645.7500	29.47	19.93	49.40	80.00	-30.60	Peak	
2 *	25645.7500	17.74	19.93	37.67	60.00	-22.33	AVG	

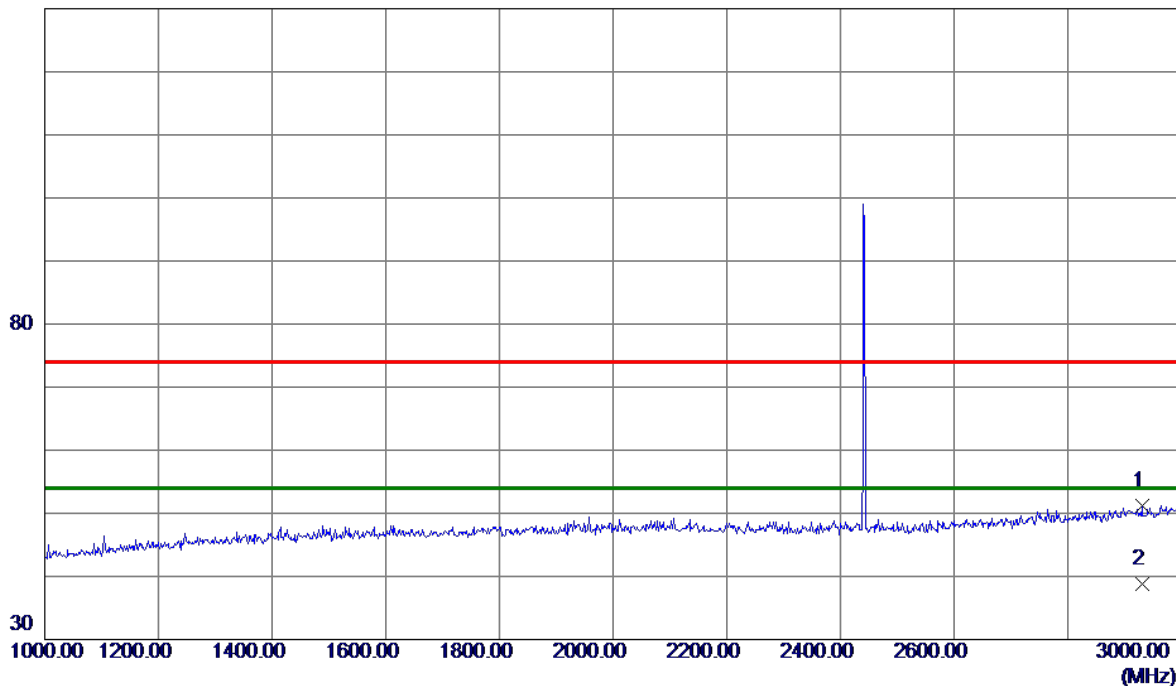
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2441 MHz _CH39_3Mbps (4GB+64GB)

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2931.0000	41.10	10.15	51.25	74.00	-22.75	Peak	
2 *	2931.0000	28.65	10.15	38.80	54.00	-15.20	AVG	

REMARKS:

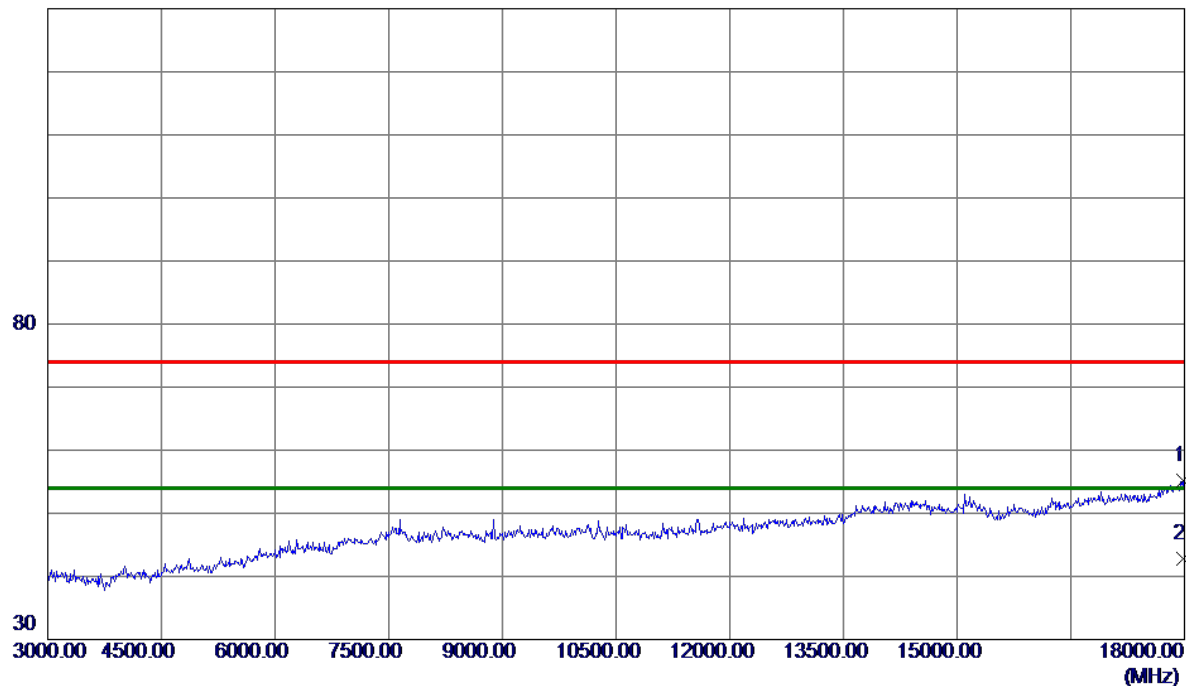
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (4GB+64GB)
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Horizontal

130 dBuV/m



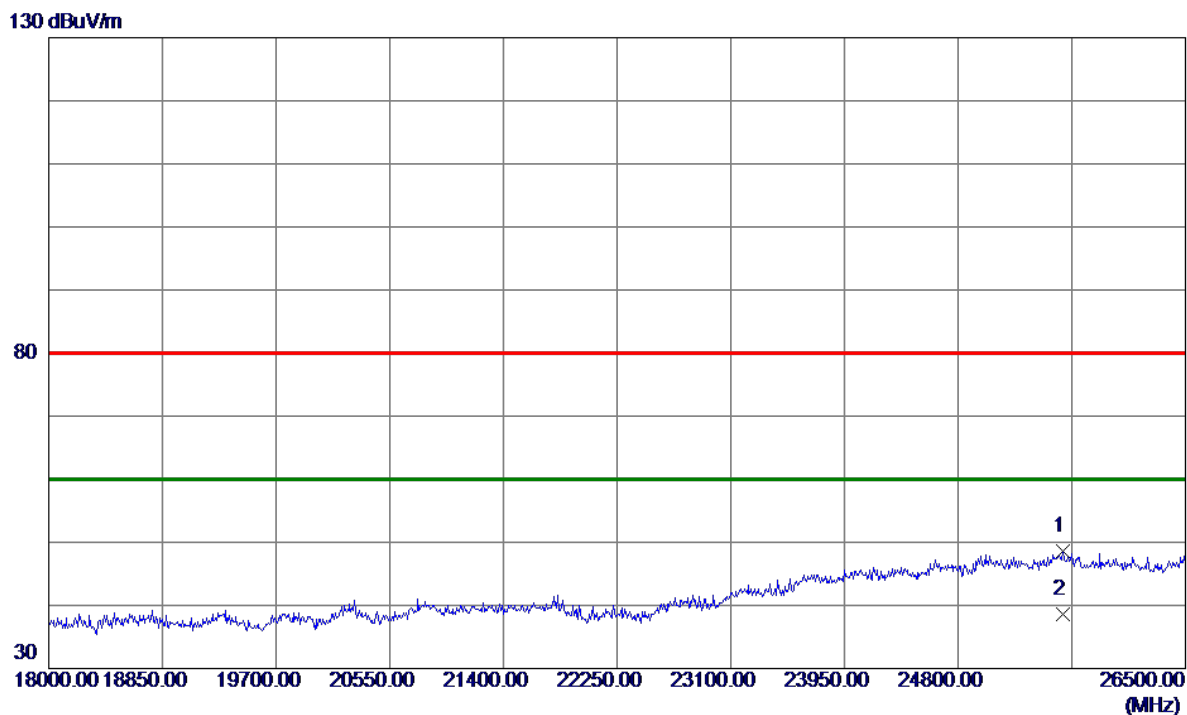
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	17977.5000	32.52	22.60	55.12	74.00	-18.88	Peak	
2 *	17977.5000	20.11	22.60	42.71	54.00	-11.29	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (4GB+64GB)
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Horizontal



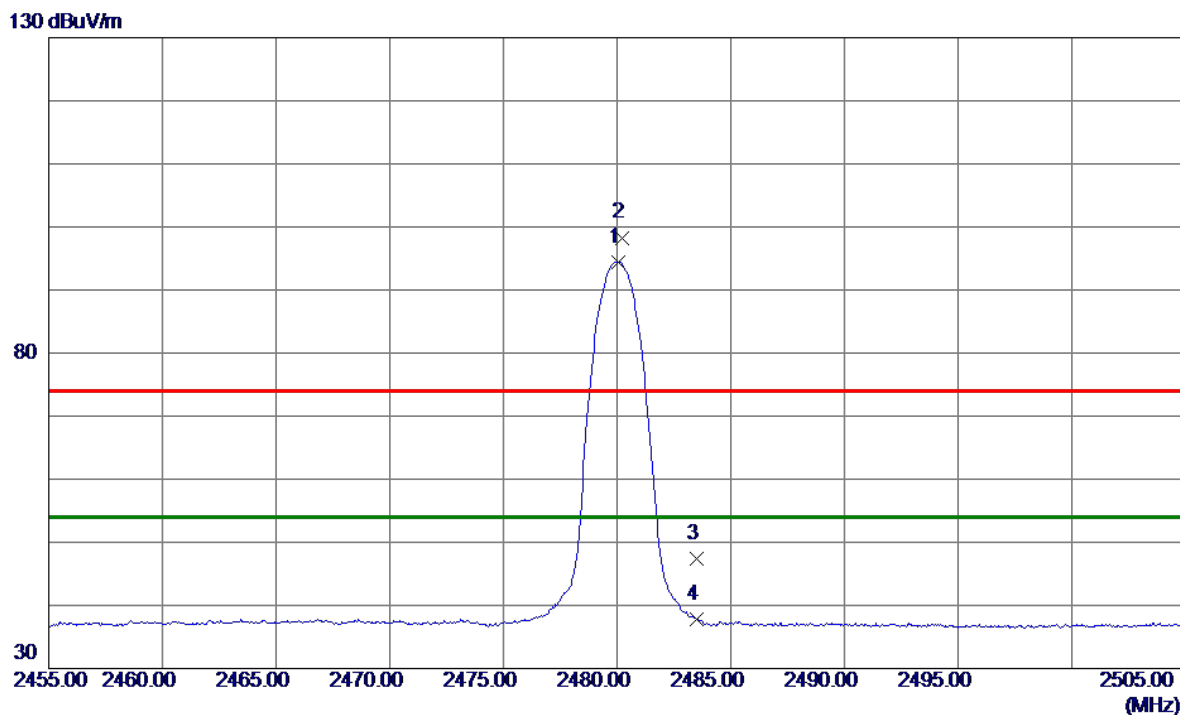
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	25582.0000	28.64	19.99	48.63	80.00	-31.37	Peak	
2 *	25582.0000	18.68	19.99	38.67	60.00	-21.33	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2480 MHz _CH78_ 3Mbps (4GB+64GB)
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2480.0750	87.43	7.03	94.46	54.00	40.46	AVG	No Limit
2	2480.2000	91.27	7.03	98.30	74.00	24.30	Peak	No Limit
3	2483.5000	40.40	7.03	47.43	74.00	-26.57	Peak	
4	2483.5000	30.80	7.03	37.83	54.00	-16.17	AVG	

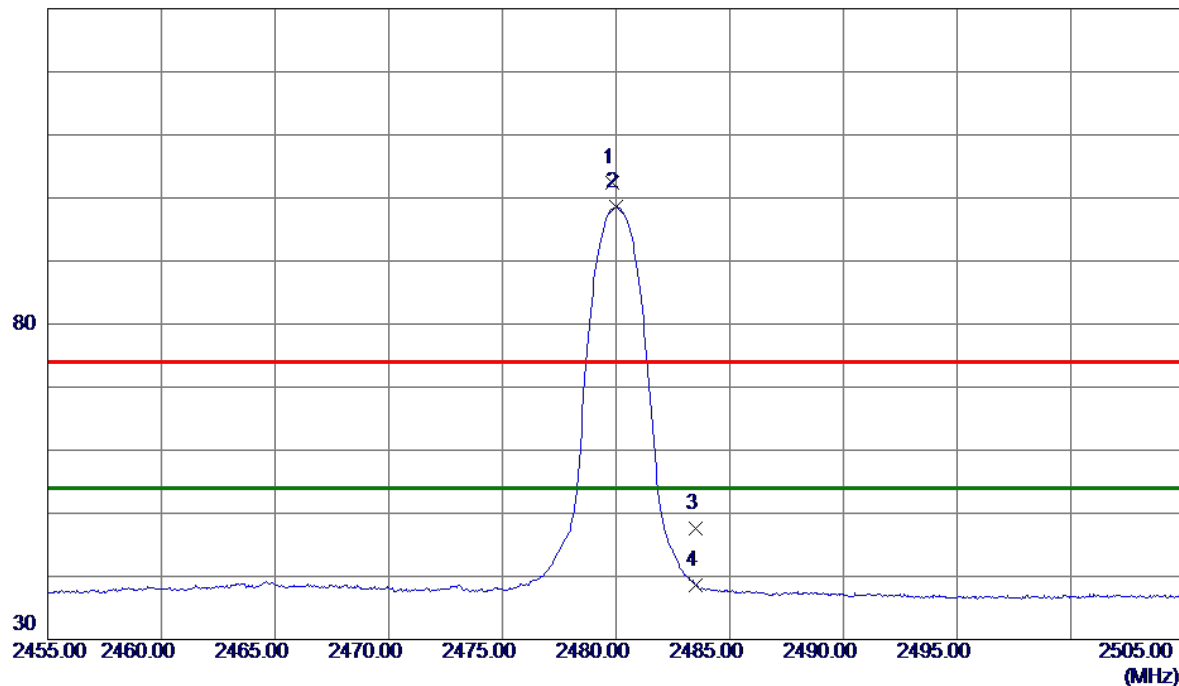
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2480 MHz _CH78_ 3Mbps (4GB+64GB)

Horizontal

130 dBuV/m



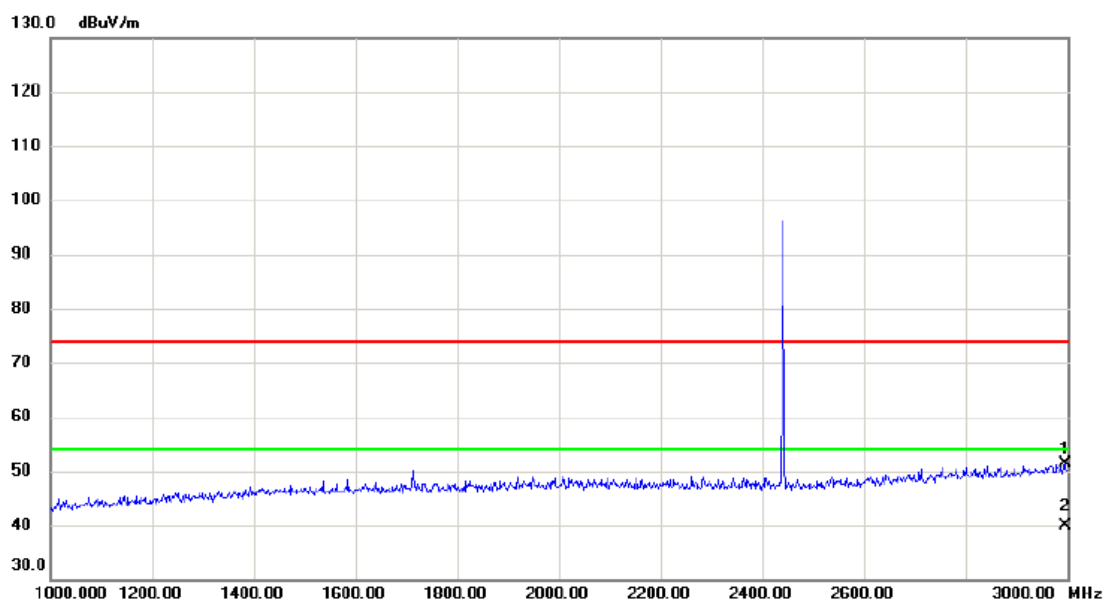
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.8500	95.46	7.03	102.49	74.00	28.49	Peak	No Limit
2 *	2479.9750	91.49	7.03	98.52	54.00	44.52	AVG	No Limit
3	2483.5000	40.57	7.03	47.60	74.00	-26.40	Peak	
4	2483.5000	31.62	7.03	38.65	54.00	-15.35	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2441 MHz _CH39_3Mbps (3GB+32GB)

Vertical



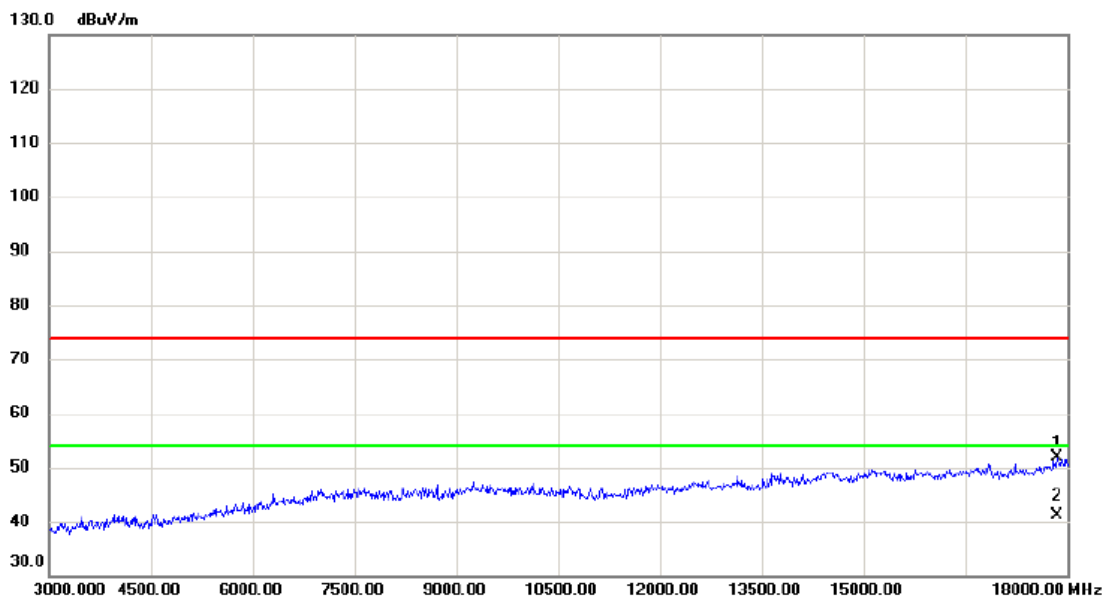
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2995.000	40.86	10.61	51.47	74.00	-22.53	peak	
2	*	2995.000	29.35	10.61	39.96	54.00	-14.04	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (3GB+32GB)
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Vertical



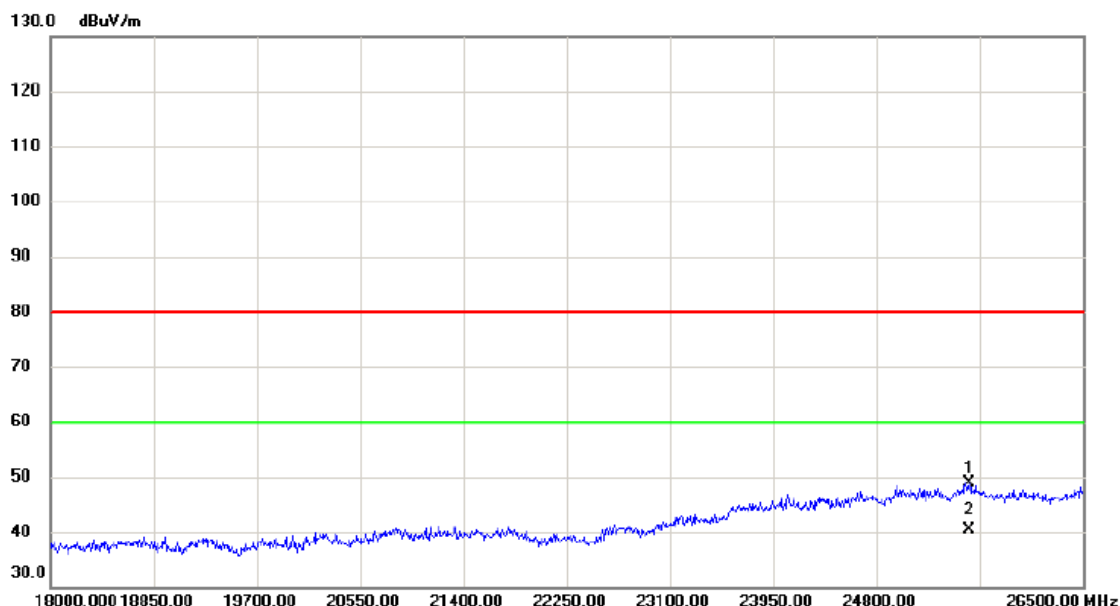
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		17857.500	32.90	19.00	51.90	74.00	-22.10	peak	
2	*	17857.500	22.08	19.00	41.08	54.00	-12.92	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (3GB+32GB)
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Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		25565.000	28.76	20.01	48.77	80.00	-31.23	peak	
2	*	25565.000	20.27	20.01	40.28	60.00	-19.72	AVG	

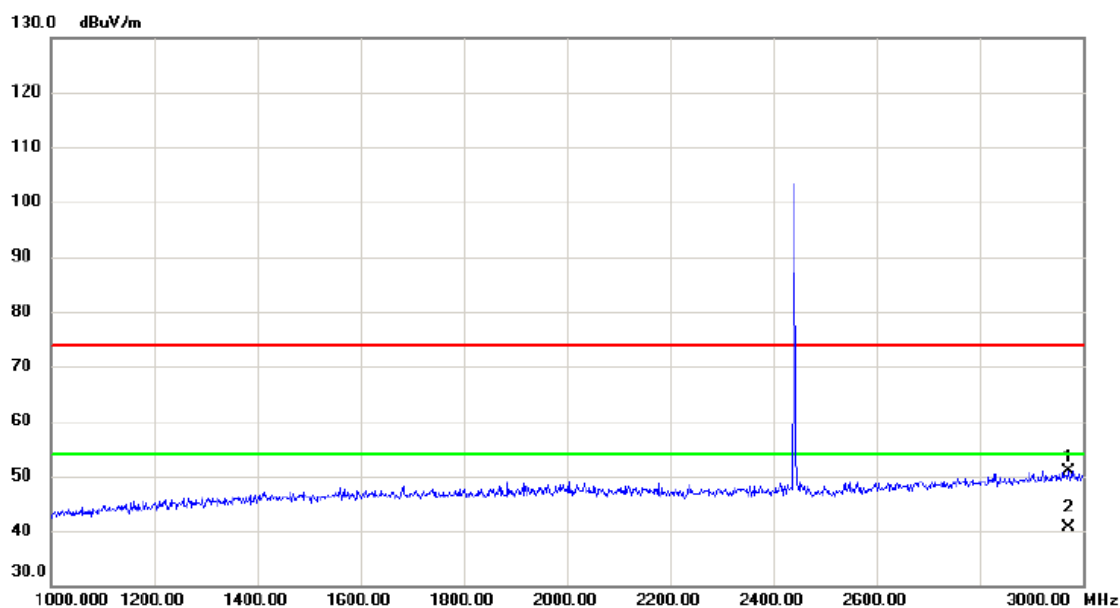
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2441 MHz _CH39_3Mbps (3GB+32GB)

Horizontal



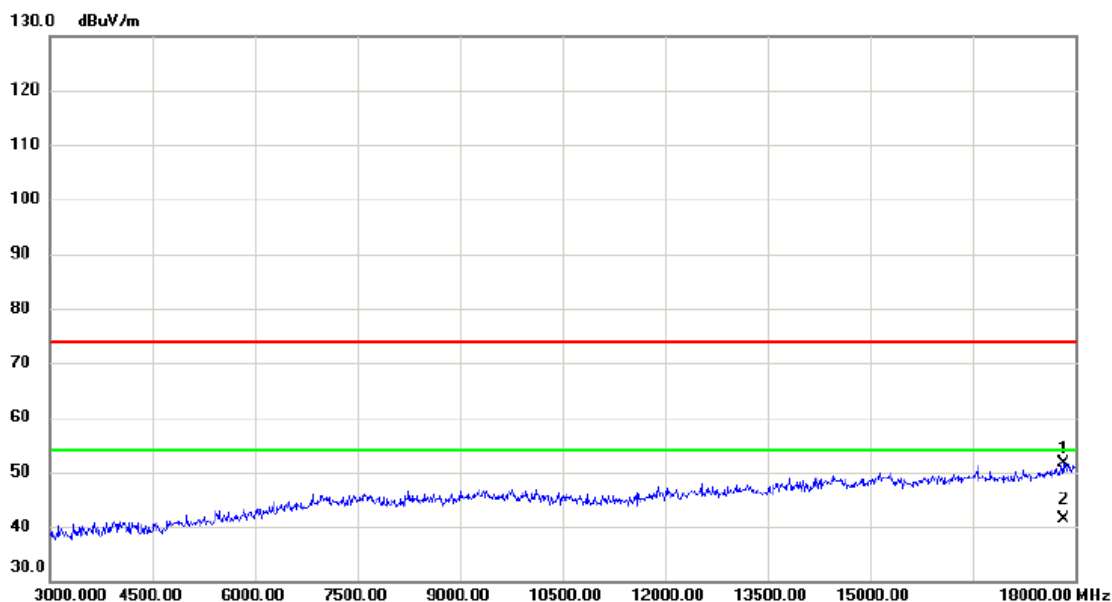
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2973.000	40.51	10.46	50.97	74.00	-23.03	peak	
2	*	2973.000	30.21	10.46	40.67	54.00	-13.33	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (3GB+32GB)
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Horizontal



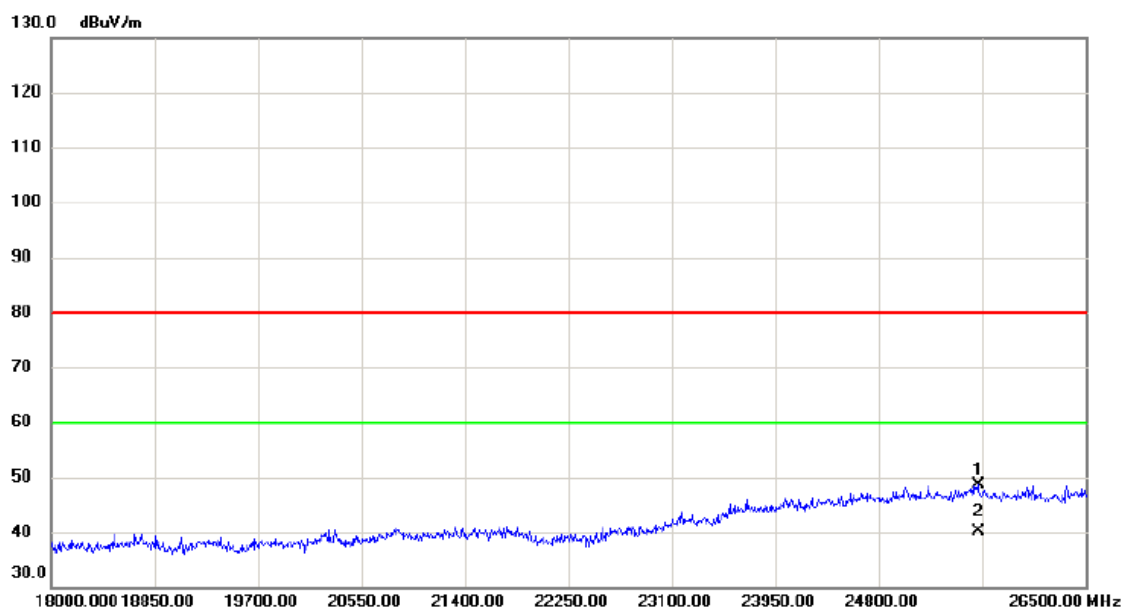
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		17820.000	32.70	18.91	51.61	74.00	-22.39	peak	
2	*	17820.000	22.56	18.91	41.47	54.00	-12.53	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode:	TX 2441 MHz _CH39_ 3Mbps (3GB+32GB)
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Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		25616.000	28.67	19.95	48.62	80.00	-31.38	peak	
2	*	25616.000	20.09	19.95	40.04	60.00	-19.96	AVG	

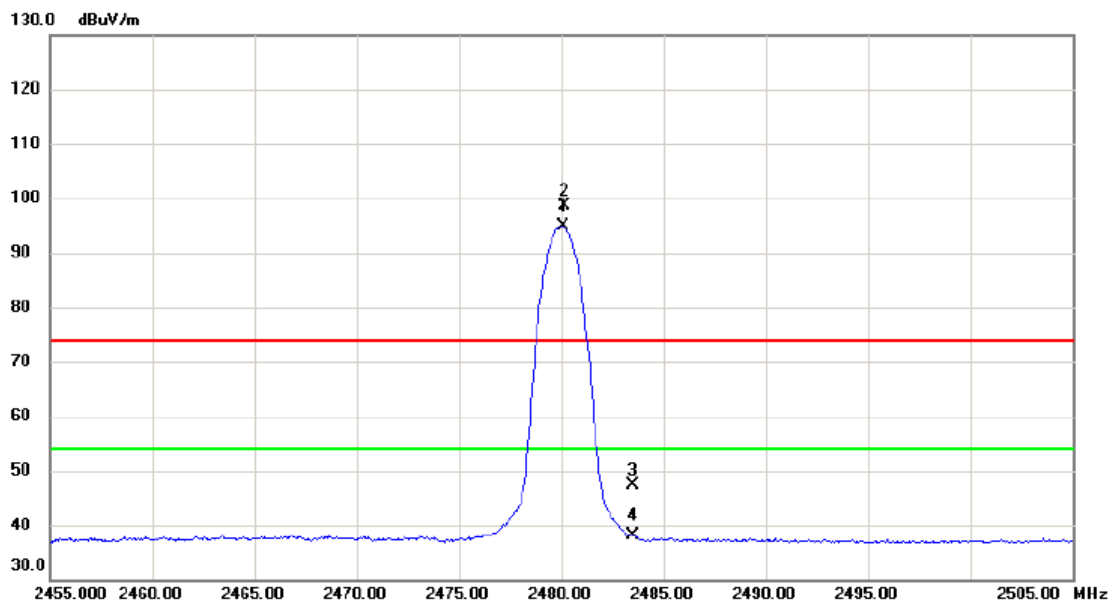
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2480 MHz _CH78_3Mbps (3GB+32GB)

Vertical



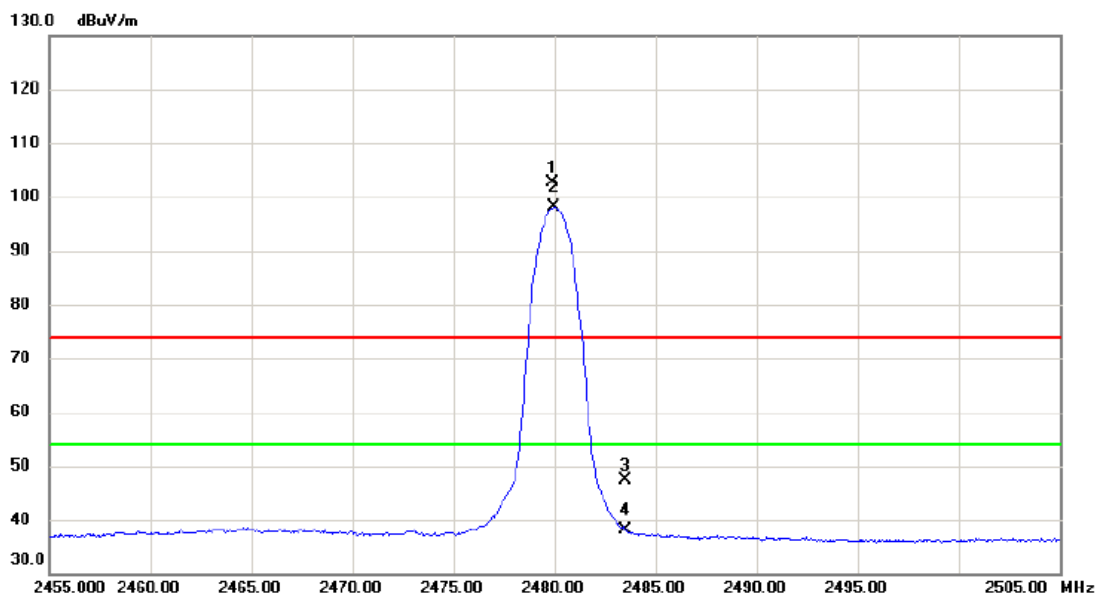
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2480.075	87.72	7.04	94.76	54.00	40.76	AVG	No Limit
2	X	2480.200	91.68	7.04	98.72	74.00	24.72	peak	No Limit
3		2483.500	40.25	7.03	47.28	74.00	-26.72	peak	
4		2483.500	31.10	7.03	38.13	54.00	-15.87	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX 2480 MHz _CH78_3Mbps (3GB+32GB)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2479.880	95.65	7.04	102.69	74.00	28.69	peak	No Limit
2	*	2479.975	90.98	7.04	98.02	54.00	44.02	AVG	No Limit
3		2483.500	40.25	7.03	47.28	74.00	-26.72	peak	
4		2483.500	31.12	7.03	38.15	54.00	-15.85	AVG	

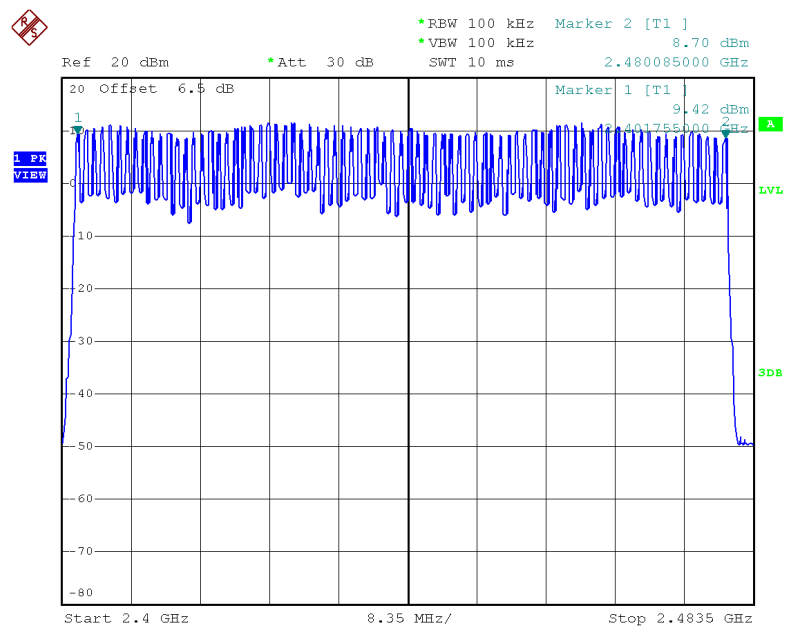
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

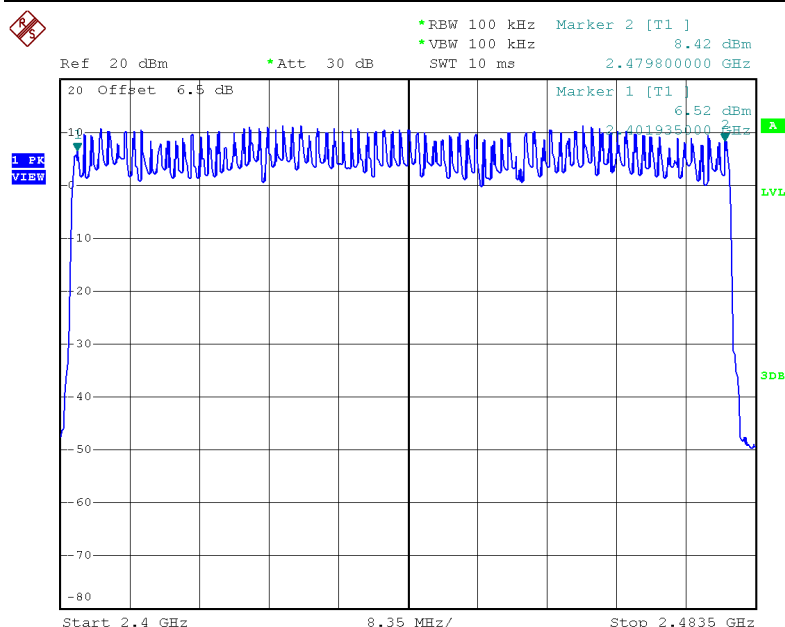
APPENDIX E - NUMBER OF HOPPING FREQUENCY

Test Mode	Hopping Mode_1Mbps
Number of Hopping Frequency	79



Date: 16.APR.2019 20:28:13

Test Mode	Hopping Mode_3Mbps
Number of Hopping Frequency	79



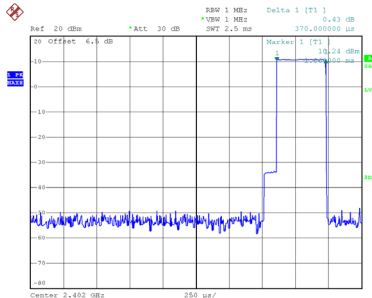
Date: 16.APR.2019 20:44:24

APPENDIX F - AVERAGE TIME OF OCCUPANCY

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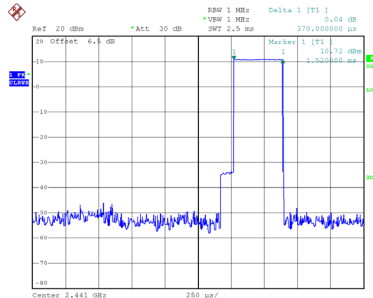
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6200	0.2592	0.4000	Pass
DH1	2402	0.3700	0.1184	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6200	0.2592	0.4000	Pass
DH1	2441	0.3700	0.1184	0.4000	Pass
DH5	2480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

CH00-DH1



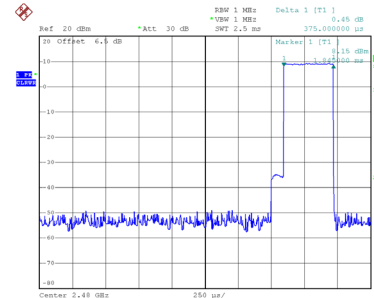
Date: 16.APR.2019 20:22:38

CH39-DH1



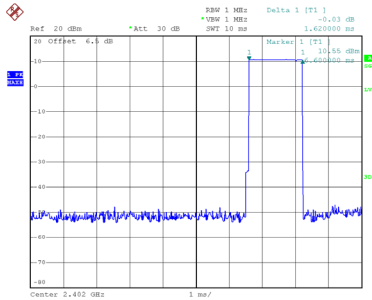
Date: 16.APR.2019 20:22:49

CH78-DH1



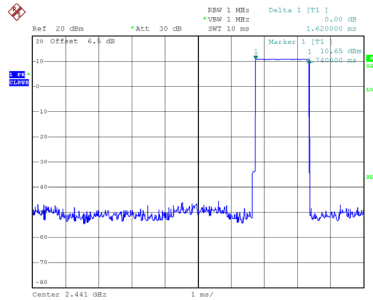
Date: 16.APR.2019 20:22:57

CH00-DH3



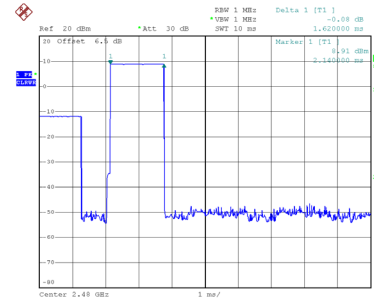
Date: 16.APR.2019 20:30:46

CH39-DH3



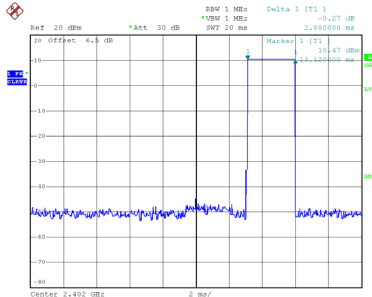
Date: 16.APR.2019 20:31:16

CH78-DH3



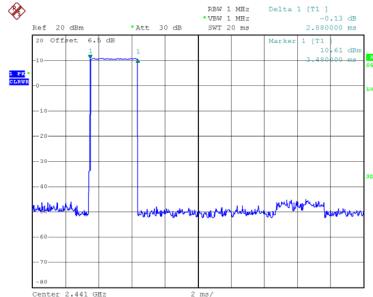
Date: 16.APR.2019 20:31:22

CH00-DH5



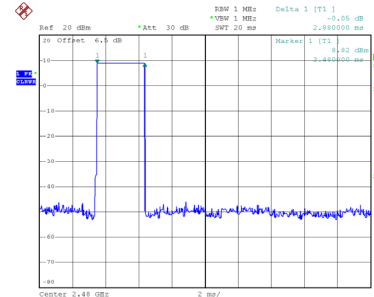
Date: 16.APR.2019 20:31:39

CH39-DH5



Date: 16.APR.2019 20:31:44

CH78-DH5

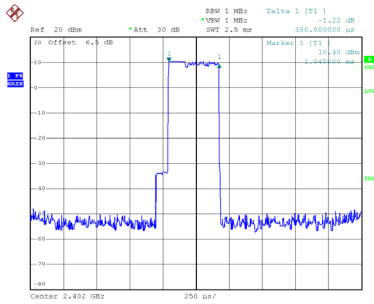


Date: 16.APR.2019 20:32:05

Test Mode:	TX Mode_3Mbps
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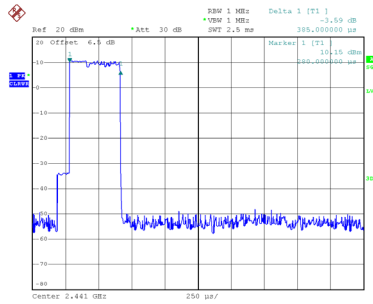
Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3800	0.1216	0.4000	Pass
DH5	2441	2.8800	0.3072	0.4000	Pass
DH3	2441	1.6200	0.2592	0.4000	Pass
DH1	2441	0.3850	0.1232	0.4000	Pass
DH5	2480	2.8800	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



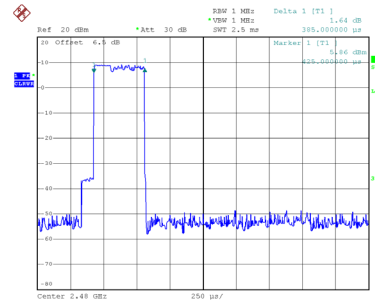
Date: 16.APR.2019 20:38:31

CH39-DH1



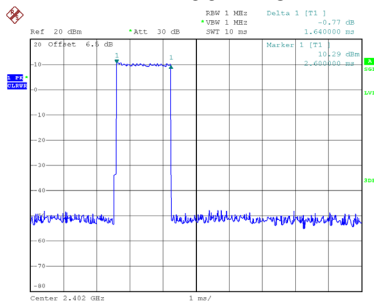
Date: 16.APR.2019 20:38:53

CH78-DH1



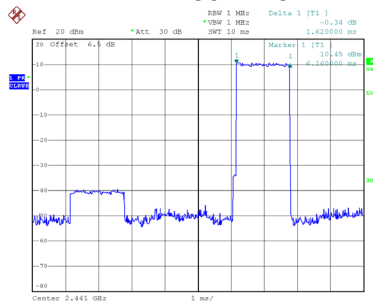
Date: 16.APR.2019 20:39:02

CH00-DH3



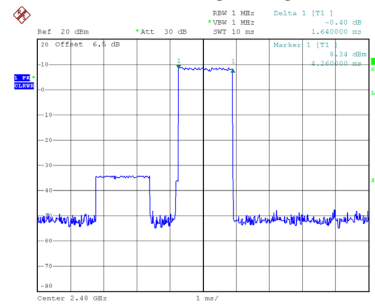
Date: 16.APR.2019 20:50:58

CH39-DH3



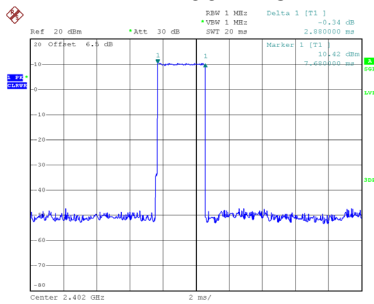
Date: 16.APR.2019 20:51:09

CH78-DH3



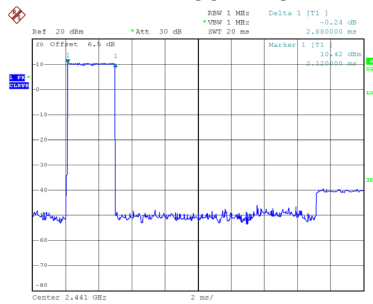
Date: 16.APR.2019 20:51:05

CH00-DH5



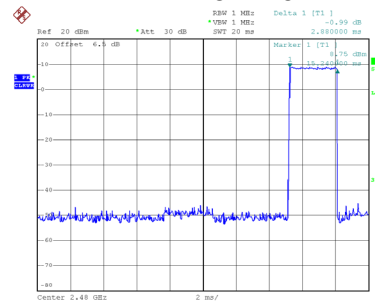
Date: 16.APR.2019 20:47:26

CH39-DH5



Date: 16.APR.2019 20:51:41

CH78-DH5

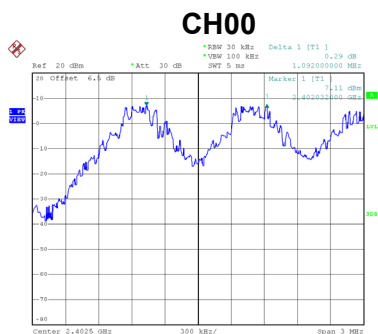


Date: 16.APR.2019 20:48:07

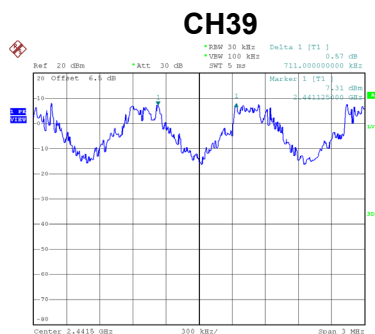
APPENDIX G - HOPPING CHANNEL SEPARATION MEASUREMENT

Test Mode: Hopping on _1Mbps

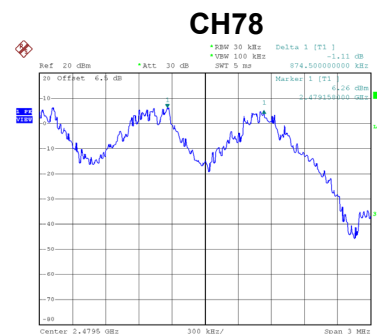
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.092	0.630	Pass
39	2441	0.711	0.635	Pass
78	2480	0.875	0.640	Pass



Date: 16.APR.2019 20:24:03



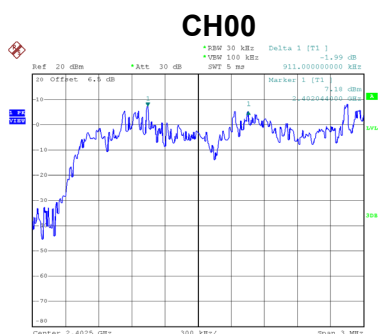
Date: 16.APR.2019 20:25:12



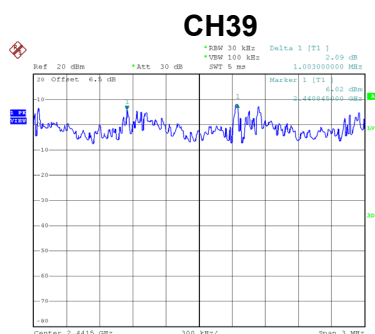
Date: 16.APR.2019 20:26:22

Test Mode: Hopping on _3Mbps

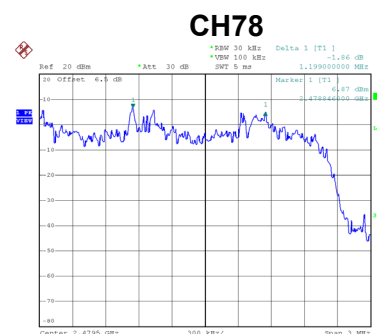
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	0.911	0.863	Pass
39	2441	1.003	0.857	Pass
78	2480	1.199	0.852	Pass



Date: 16.APR.2019 20:40:14



Date: 16.APR.2019 20:41:23

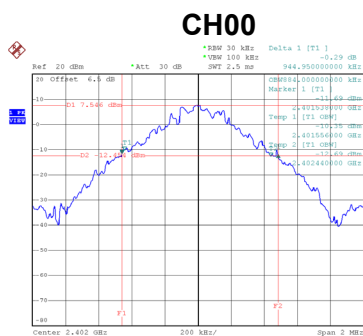


Date: 16.APR.2019 20:42:33

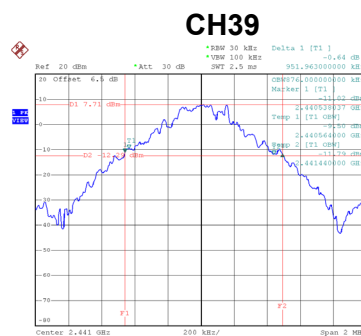
APPENDIX H - BANDWIDTH

Test Mode: TX Mode _1Mbps

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
00	2402	0.945	0.884
39	2441	0.952	0.876
78	2480	0.960	0.876



Date: 16.APR.2019 20:18:14



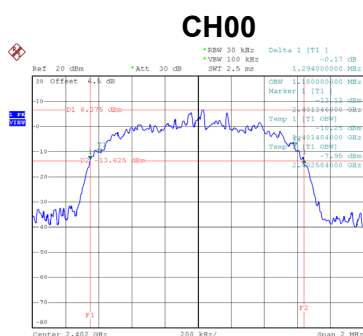
Date: 16.APR.2019 20:20:22



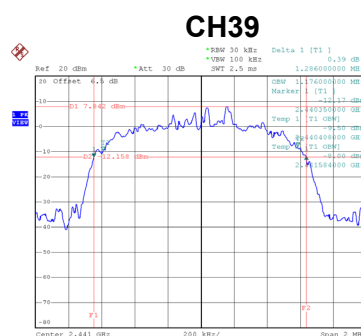
Date: 16.APR.2019 20:21:29

Test Mode: TX Mode _3Mbps

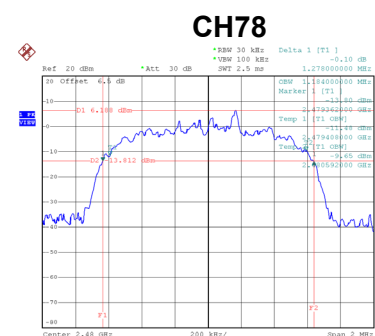
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
00	2402	1.294	1.180
39	2441	1.286	1.176
78	2480	1.278	1.184



Date: 16.APR.2019 20:34:11



Date: 16.APR.2019 20:36:23

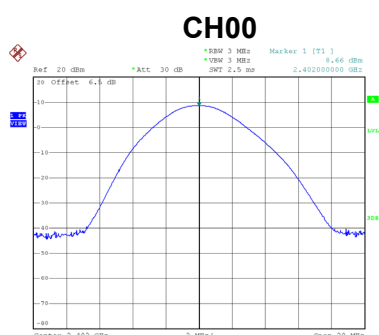


Date: 16.APR.2019 20:37:21

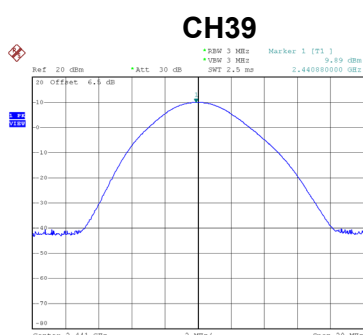
APPENDIX I - MAXIMUM OUTPUT POWER

Test Mode: TX Mode _1Mbps

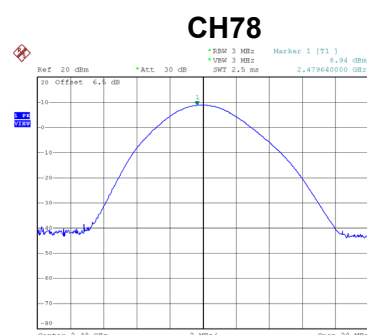
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	8.66	0.0073	21.00	0.125	Pass
39	2441	9.89	0.0097	21.00	0.125	Pass
78	2480	8.94	0.0078	21.00	0.125	Pass



Date: 18.APR.2019 10:49:25



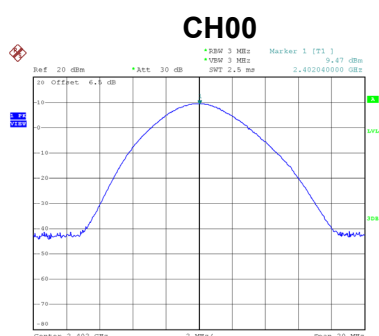
Date: 18.APR.2019 10:49:50



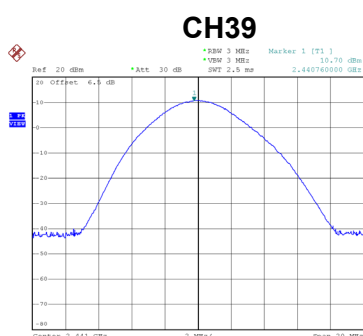
Date: 18.APR.2019 10:50:13

Test Mode: TX Mode _3Mbps

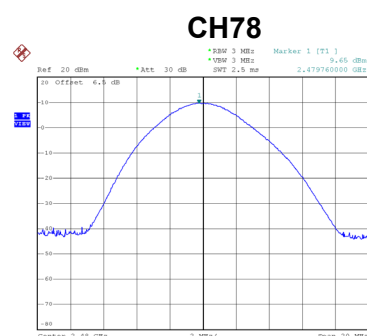
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	9.47	0.0089	21.00	0.125	Pass
39	2441	10.70	0.0117	21.00	0.125	Pass
78	2480	9.65	0.0092	21.00	0.125	Pass



Date: 18.APR.2019 10:51:00



Date: 18.APR.2019 10:51:20

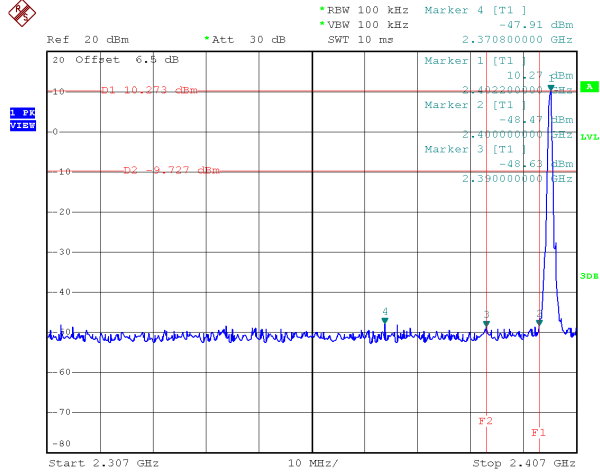


Date: 18.APR.2019 10:51:39

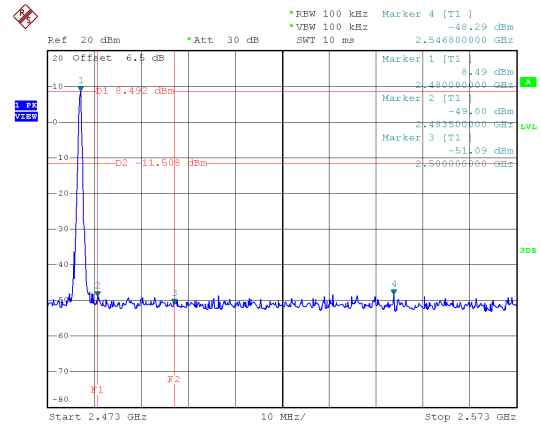
APPENDIX J - CONDUCTED SPURIOUS EMISSION

Test Mode : TX Mode _1Mbps

Bandedge- CH00 (Lower)



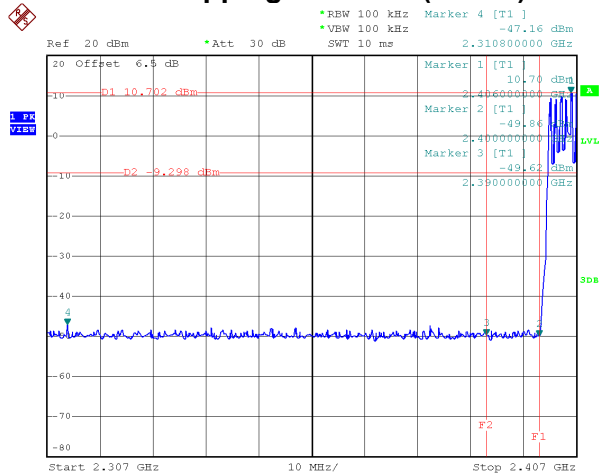
Bandedge CH78 (Upper)



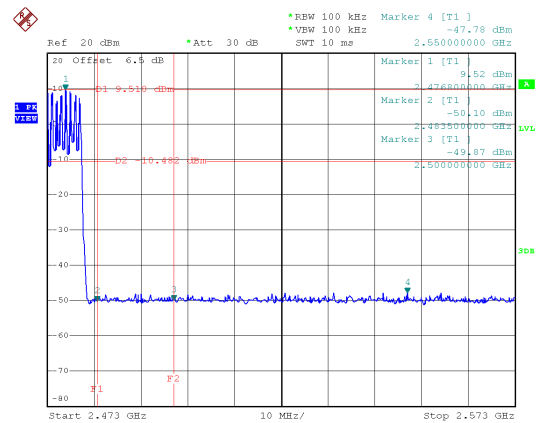
Date: 16.APR.2019 20:20:57

Date: 16.APR.2019 20:17:34

Hopping on mode (Lower)



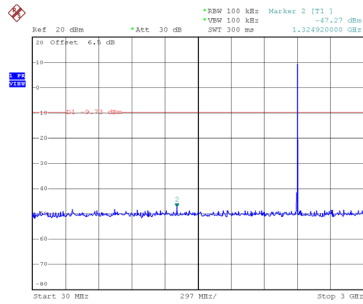
Hopping on mode (Upper)



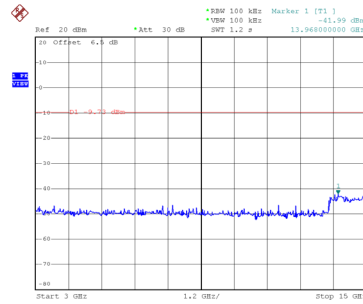
Date: 16.APR.2019 20:29:24

Date: 16.APR.2019 20:28:49

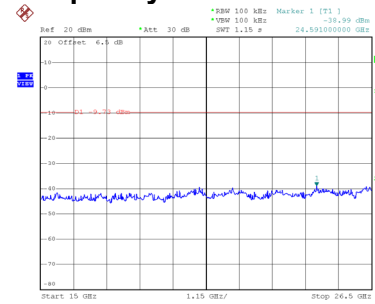
CH00 – 10th Harmonic of the fundamental frequency



Date: 16.APR.2019 20:18:28

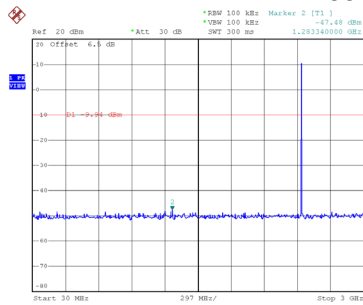


Date: 16.APR.2019 20:18:36

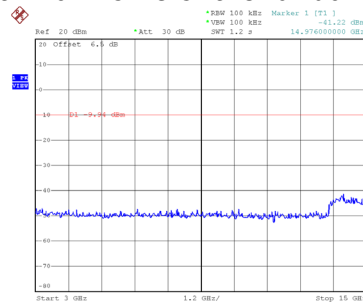


Date: 16.APR.2019 20:18:45

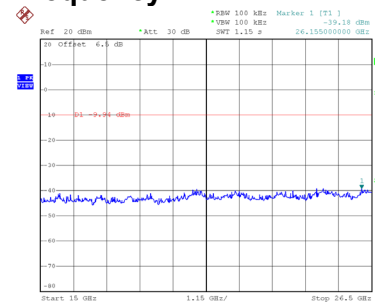
CH39 – 10th Harmonic of the fundamental frequency



Date: 16.APR.2019 20:19:30

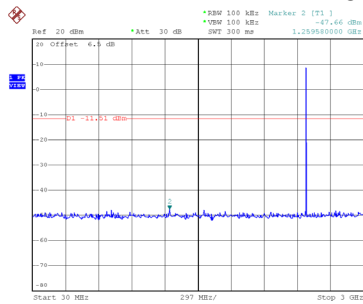


Date: 16.APR.2019 20:19:39

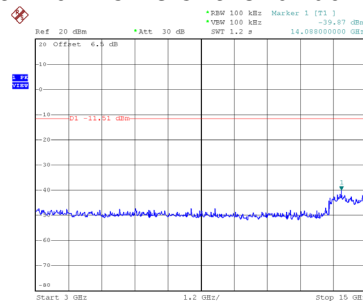


Date: 16.APR.2019 20:19:48

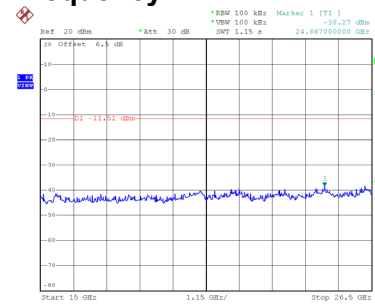
CH78 – 10th Harmonic of the fundamental frequency



Date: 16.APR.2019 20:21:43



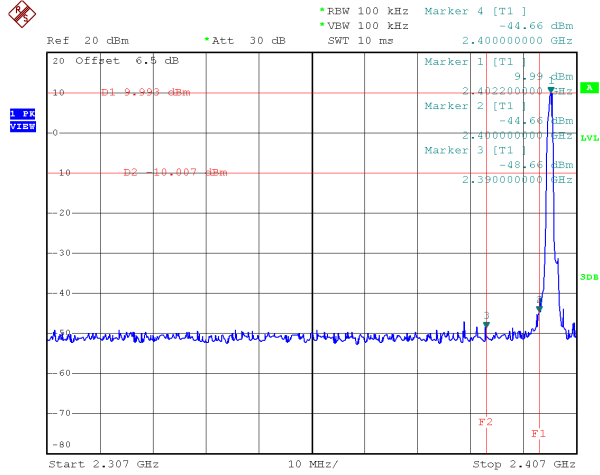
Date: 16.APR.2019 20:21:52



Date: 16.APR.2019 20:22:01

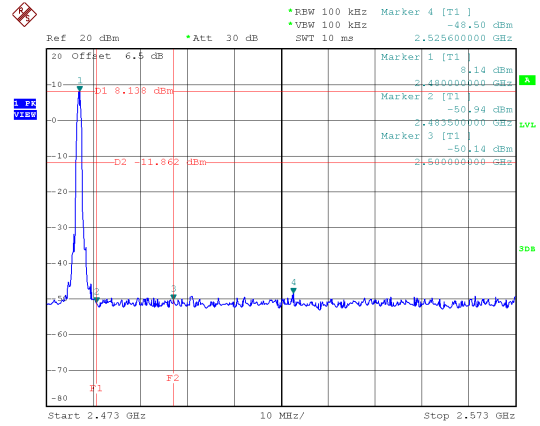
Test Mode : TX Mode _3Mbps

Bandedge- CH00 (Lower)



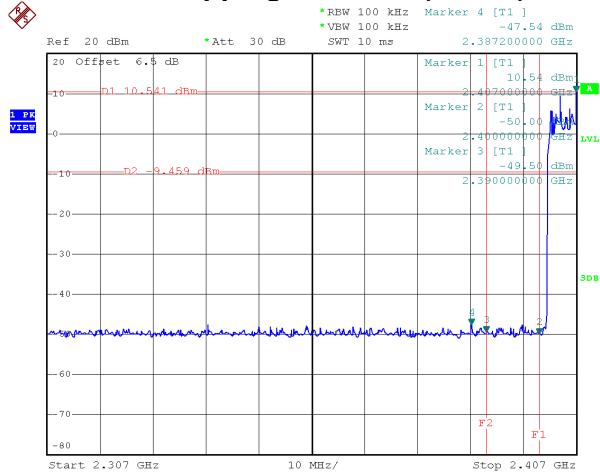
Date: 16.APR.2019 20:33:42

Bandedge CH78 (Upper)



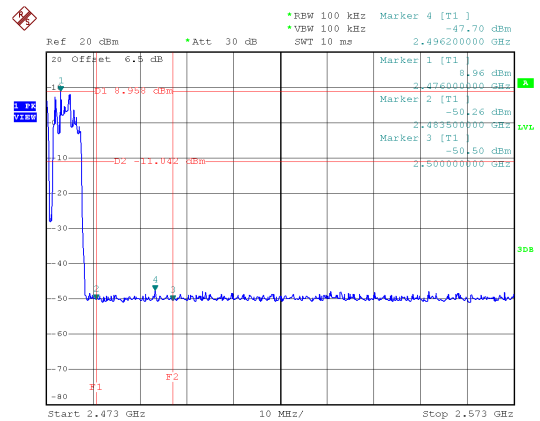
Date: 16.APR.2019 20:36:56

Hopping on mode (Lower)



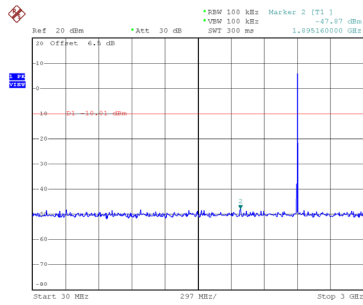
Date: 16.APR.2019 20:45:00

Hopping on mode (Upper)

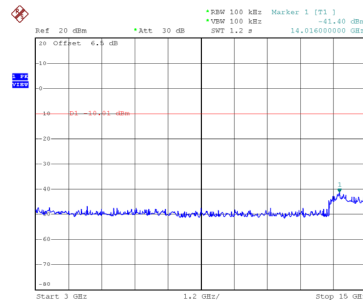


Date: 16.APR.2019 20:45:36

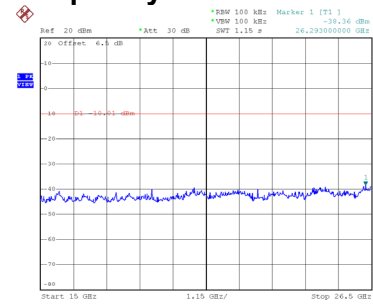
CH00 – 10th Harmonic of the fundamental frequency



Date: 16.APR.2019 20:34:25

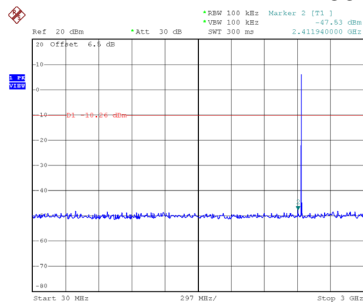


Date: 16.APR.2019 20:34:34

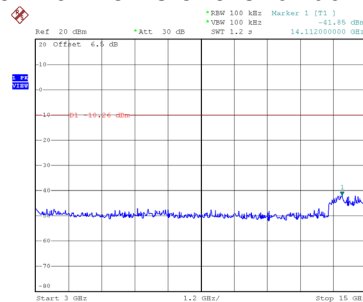


Date: 16.APR.2019 20:34:43

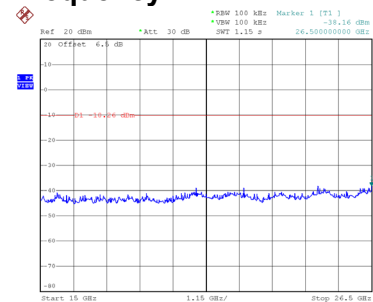
CH39 – 10th Harmonic of the fundamental frequency



Date: 16.APR.2019 20:35:38

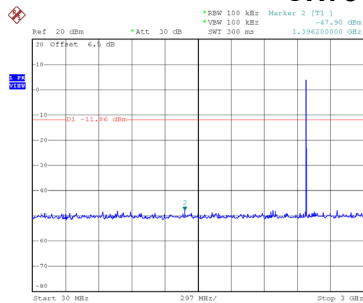


Date: 16.APR.2019 20:35:47

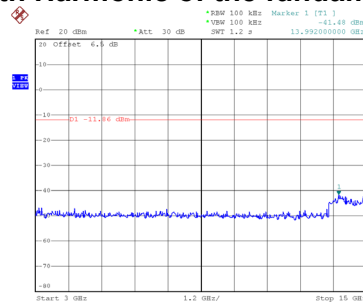


Date: 16.APR.2019 20:35:56

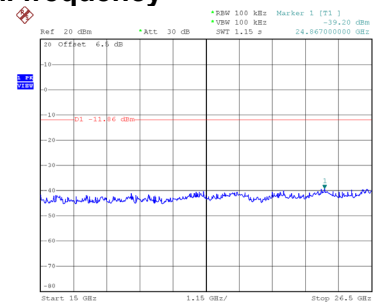
CH78 – 10th Harmonic of the fundamental frequency



Date: 16.APR.2019 20:37:35



Date: 16.APR.2019 20:37:44



Date: 16.APR.2019 20:37:52

End of Test Report