

FCC Radio Test Report

FCC ID: V7TSP6V1

This report concerns: Original Grant

Project No. : 1906C015B
Equipment : Smart Wi-Fi Plug Mini
Brand Name : Tenda
Test Model : SP6
Series Model : N/A
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
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Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Receipt : Nov. 11, 2019
Date of Test : Nov. 11, 2019 ~ Nov. 17, 2019
Issued Date : Nov. 27, 2019
Report Version : R00
Test Sample : Engineering Sample No.: DG20191111129.
Standard(s) : FCC Part15, Subpart C (15.247)
 ANSI C63.10-2013
 KDB 558074 D01 15.247 Meas Guidance v05r02

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

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Declaration

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

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.	Nov. 27, 2019

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical 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	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note 2

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

1.1 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

1.2 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. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

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	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18 ~ 26.5 GHz	-	3.62
		26.5 ~ 40 GHz	-	4.00

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	53%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Laughing Zhang
Radiated Emissions-30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Sheldon
Radiated Emissions-Above 1000 MHz	24°C	68%	AC 120V/60Hz	Sheldon
Bandwidth	24.6°C	58%	AC 120V/60Hz	Jonas Chen
Maximum output power	24.6°C	58%	AC 120V/60Hz	Laughing Zhang
Conducted Spurious Emissions	24.6°C	58%	AC 120V/60Hz	Jonas Chen
Power Spectral Density	24.6°C	58%	AC 120V/60Hz	Jonas Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Wi-Fi Plug Mini
Brand Name	Tenda
Test Model	SP6
Series Model	N/A
Model Difference(s)	N/A
Power Source	AC Mains.
Power Rating	I/P: 100-120V~ 60Hz 15A (0.1A, product only) O/P: 15A Maximum load
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps
Maximum Output Power	IEEE 802.11b: 26.79 dBm (0.4775 W) IEEE 802.11g: 28.04 dBm (0.6368 W) IEEE 802.11n (HT20): 28.04 dBm (0.6368 W) IEEE 802.11n (HT40): 27.96 dBm (0.6252 W)

Note:

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

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03 - CH09 for IEEE 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

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

2.2 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 B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09
Mode 5	TX G Mode Channel 06

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 5	TX G Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 5	TX G Mode Channel 06

Radiated emissions test- Above 1GHz	
Final Test Mode:	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

Conducted test	
Final Test Mode:	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N-20 MHz Mode Channel 01/06/11
Mode 4	TX N-40 MHz Mode Channel 03/06/09

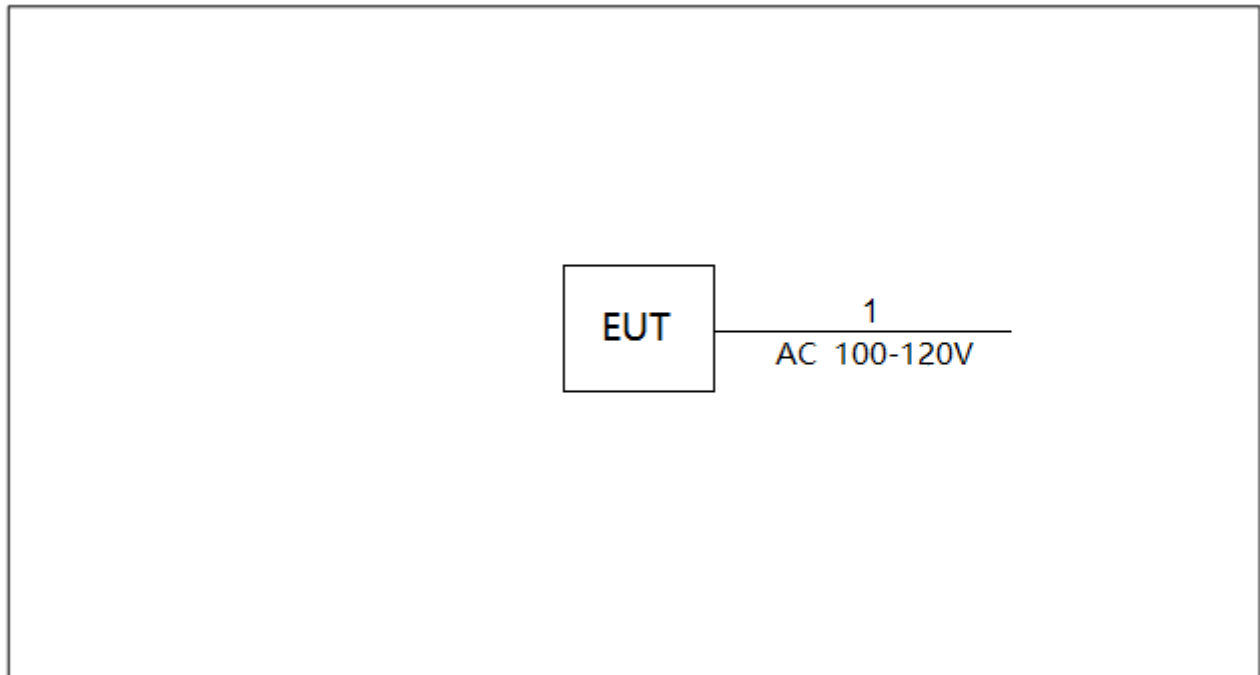
NOTE:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) For radiated emission below 1 GHz test, the IEEE 802.11g Channel 06 is found to be the worst case and recorded.
- (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.

2.3 PARAMETERS OF TEST SOFTWARE

Test Software	UI_mptool_1v15		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	51	53	50
IEEE 802.11g	51	63	48
IEEE 802.11n (HT20)	50	63	47
Frequency (MHz)	2422	2437	2452
IEEE 802.11n (HT40)	48	53	45

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	AC Cable	NO	NO	1.5m

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The 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

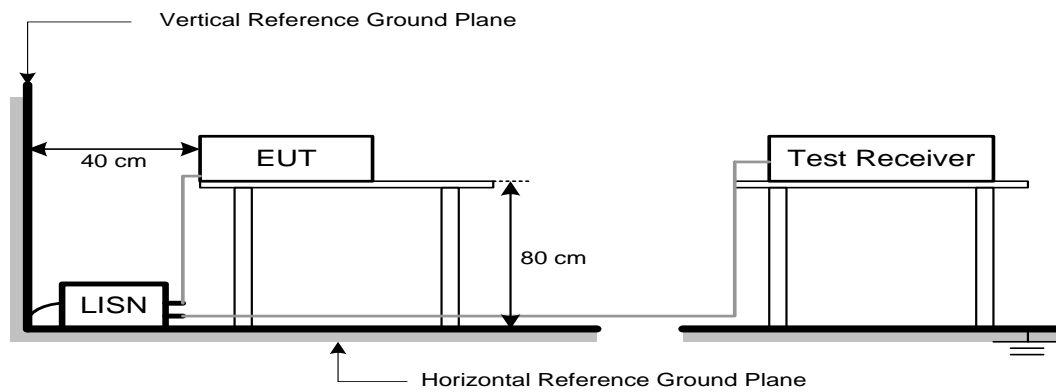
3.2 TEST PROCEDURE

- 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.

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS TEST

4.1 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)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 1/T for Average

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

4.2 TEST PROCEDURE

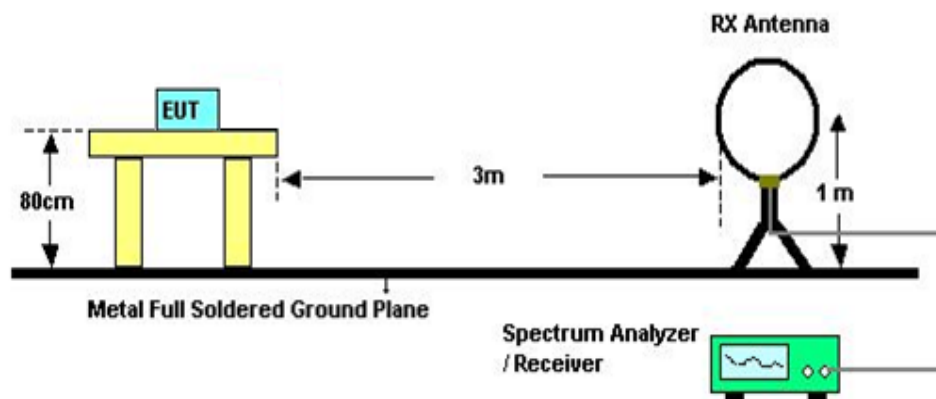
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance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

4.3 DEVIATION FROM TEST STANDARD

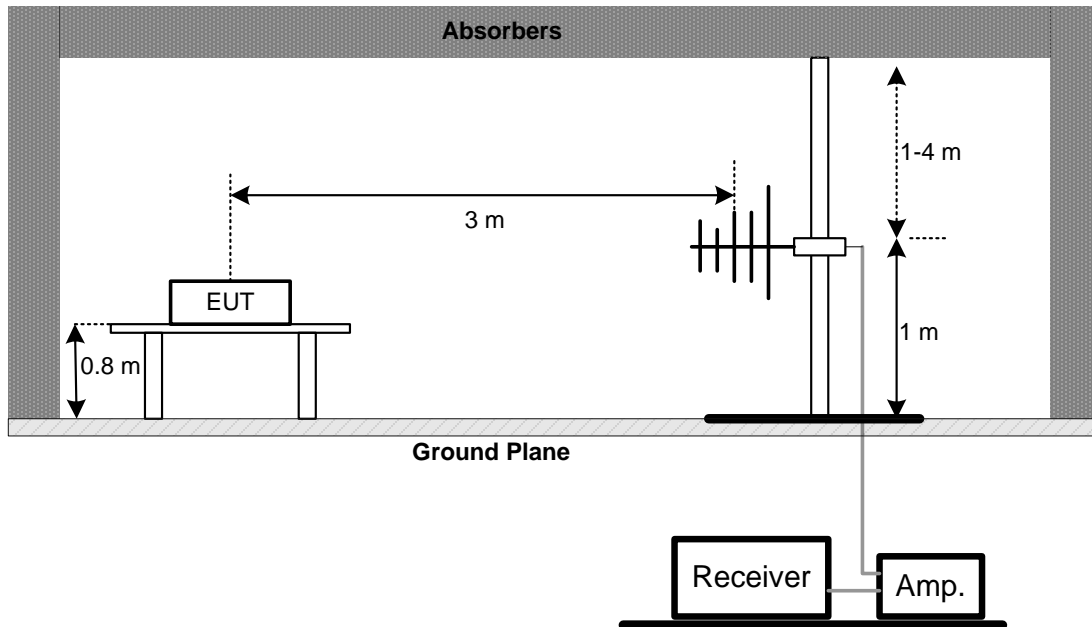
No deviation

4.4 TEST SETUP

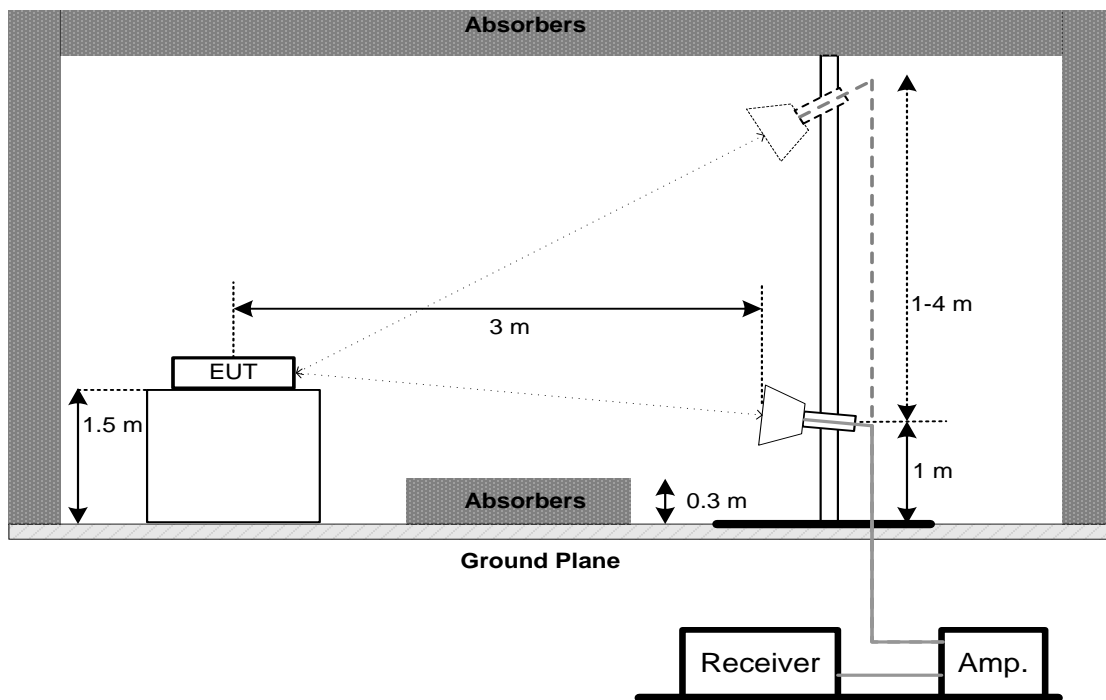
9 kHz-30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 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.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 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.

5. BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

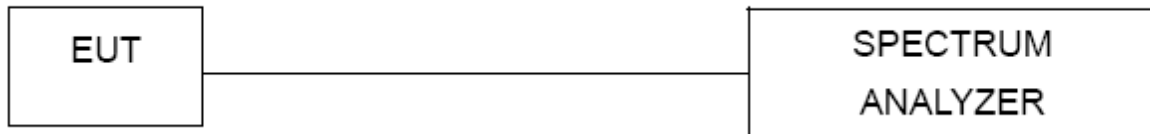
5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- For 6 dB Bandwidth : RBW= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.
For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms.
For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz, VBW=3 MHz, Sweep time = 2.5 ms.
- The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm

6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.1.3 of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 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.

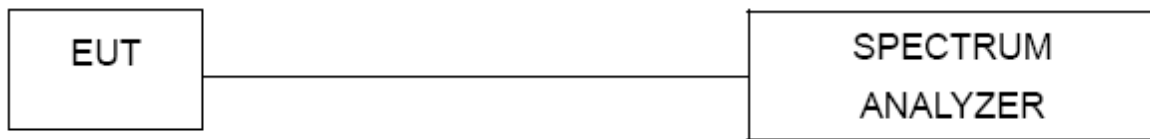
7.2 TEST PROCEDURE

- 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=300 kHz, Sweep time = Auto.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart C (15.247)		
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

8.2 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=3 kHz, VBW=10 kHz, Sweep time = Auto.
- The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. 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	TWO-LINE V-NETWORK	R&S	ENV216	101447	May. 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 10, 2020
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	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	May 31, 2020
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, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 24, 2020
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. 23, 2020
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. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Antenna Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020

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

"**" calibration period of equipment list is three year.

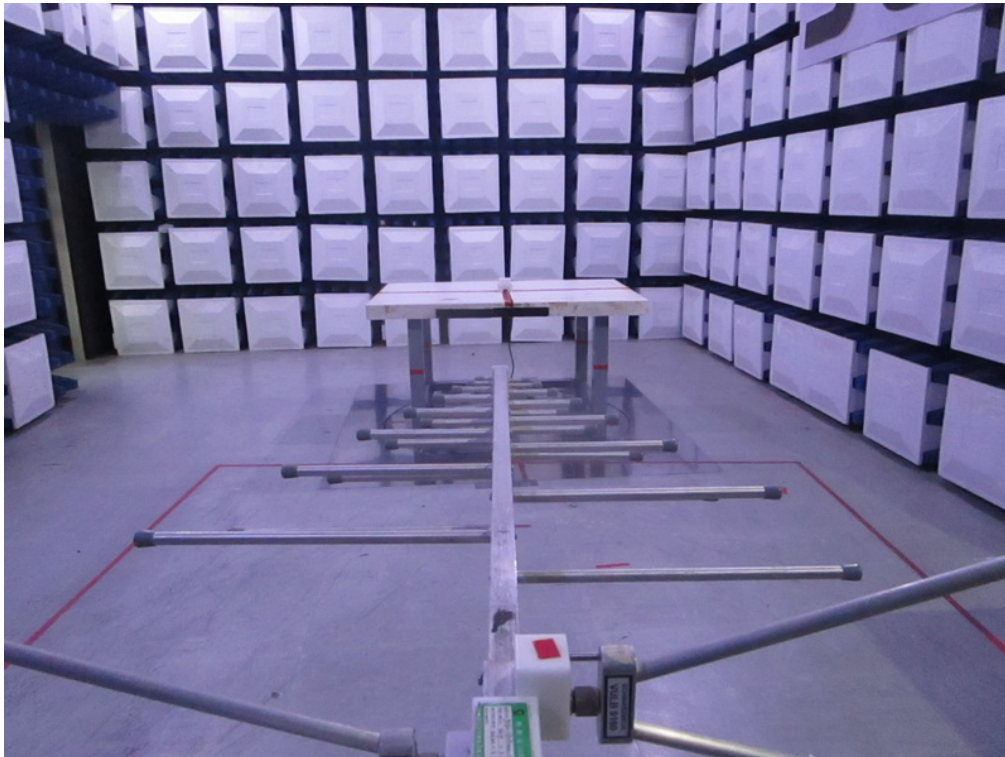
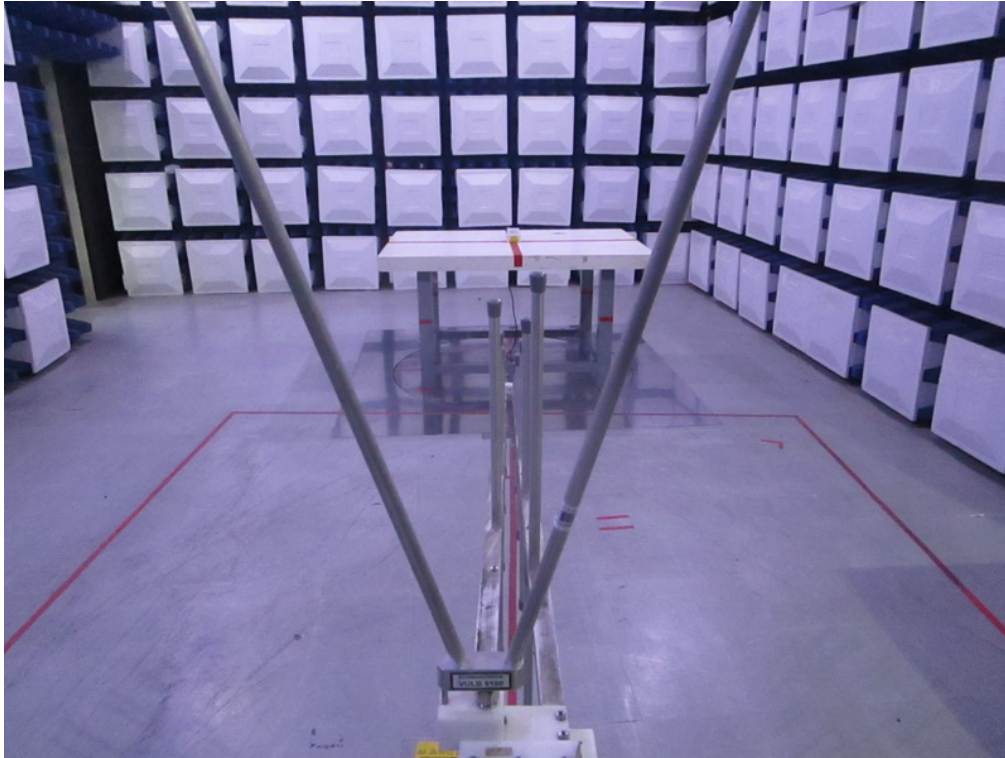
Except * item, all calibration period of equipment list is one year.

10. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

Radiated Emissions Test Photos**9 kHz to 30 MHz**

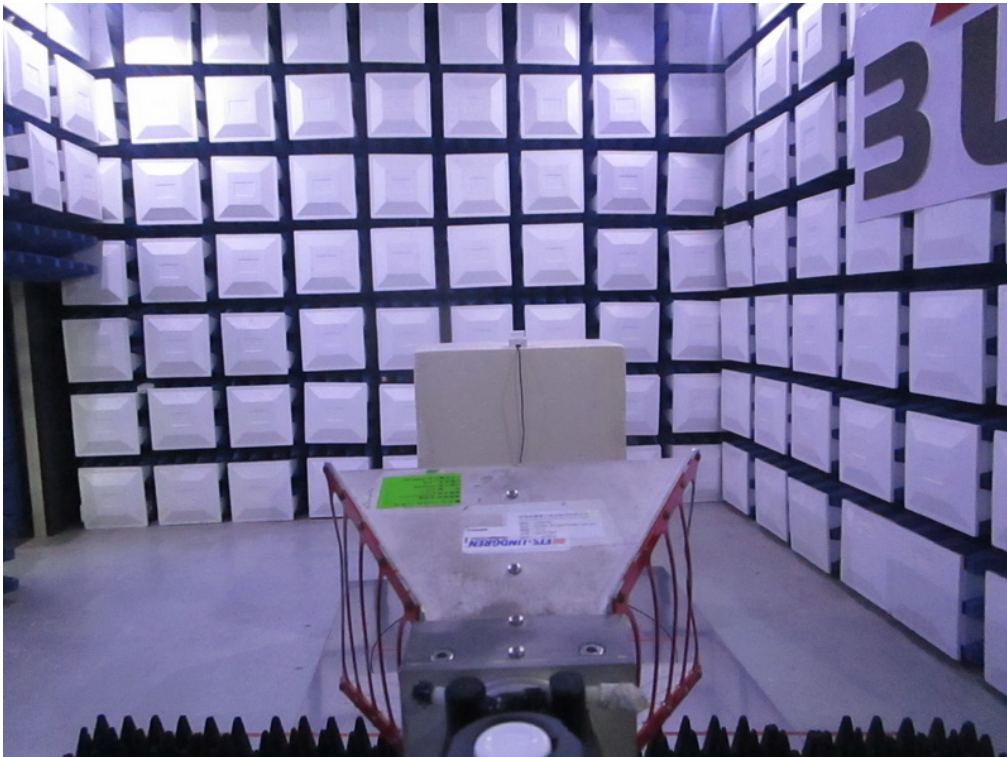
Radiated Emissions Test Photos

30 MHz to 1 GHz



Radiated Emissions Test Photos

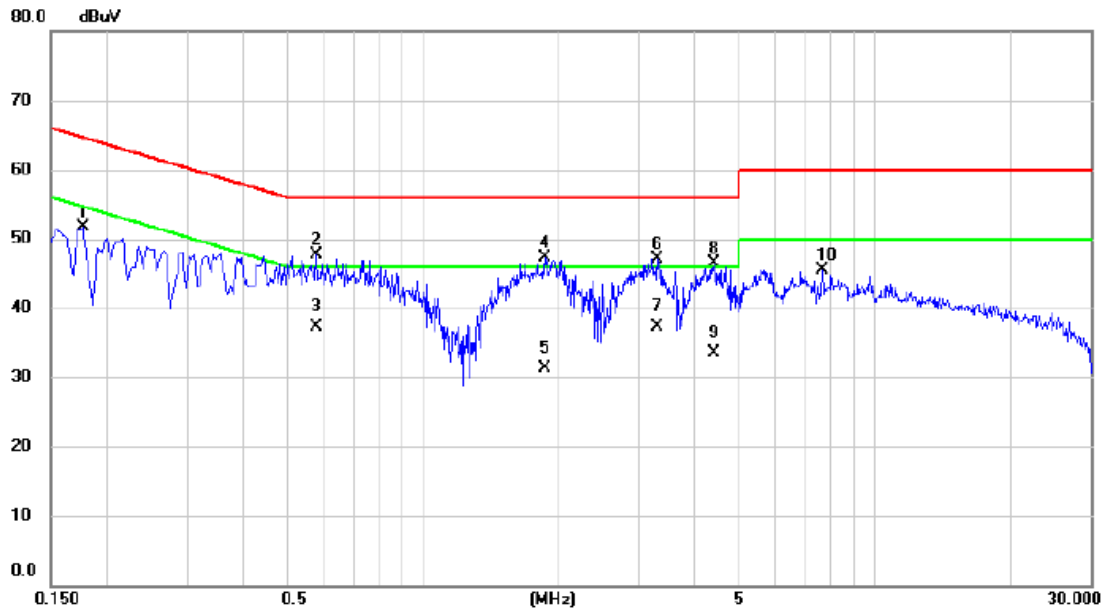
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode: TX G Mode Channel 06

Line



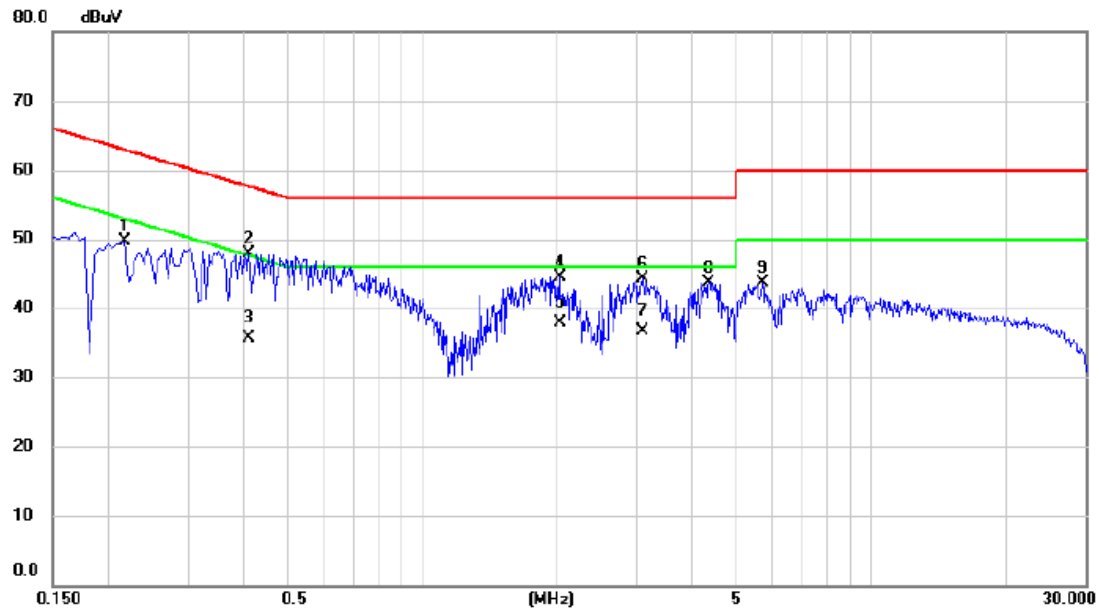
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.177	41.81	9.82	51.63	64.63	-13.00	peak	
2	*	0.582	37.73	9.89	47.62	56.00	-8.38	peak	
3		0.582	27.32	9.89	37.21	46.00	-8.79	AVG	
4		1.865	37.32	9.99	47.31	56.00	-8.69	peak	
5		1.865	21.22	9.99	31.21	46.00	-14.79	AVG	
6		3.296	37.10	10.08	47.18	56.00	-8.82	peak	
7		3.296	27.15	10.08	37.23	46.00	-8.77	AVG	
8		4.407	36.25	10.16	46.41	56.00	-9.59	peak	
9		4.407	23.32	10.16	33.48	46.00	-12.52	AVG	
10		7.620	35.05	10.37	45.42	60.00	-14.58	peak	

REMARKS:

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

Test Mode: TX G Mode Channel 06

Neutral



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.217	39.84	9.91	49.75	62.91	-13.16	peak	
2	0.411	37.98	10.01	47.99	57.63	-9.64	peak	
3	0.411	25.69	10.01	35.70	47.63	-11.93	AVG	
4	2.022	34.33	10.19	44.52	56.00	-11.48	peak	
5 *	2.022	27.62	10.19	37.81	46.00	-8.19	AVG	
6	3.093	34.03	10.25	44.28	56.00	-11.72	peak	
7	3.093	26.39	10.25	36.64	46.00	-9.36	AVG	
8	4.357	33.29	10.34	43.63	56.00	-12.37	peak	
9	5.716	33.17	10.46	43.63	60.00	-16.37	peak	

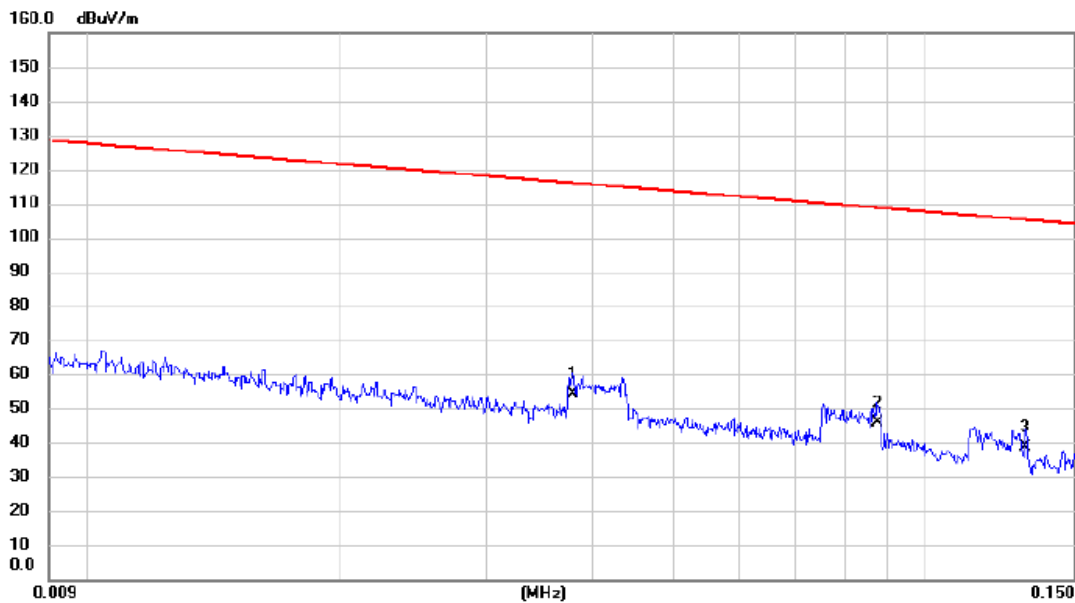
REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX G Mode Channel 06

Ant 0°



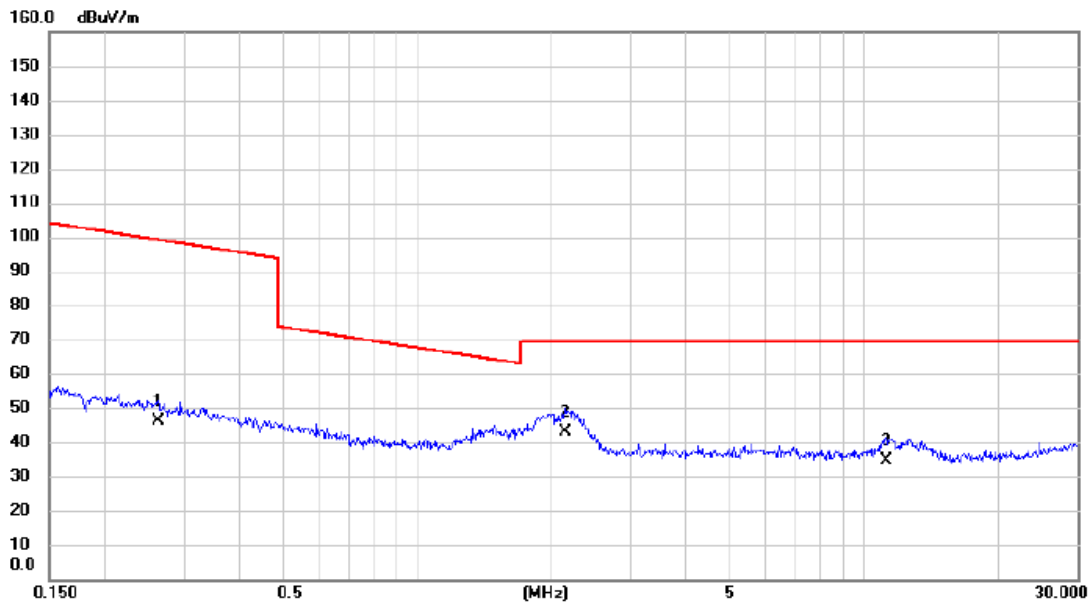
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0380	40.25	13.89	54.14	116.01	-61.87	AVG	
2		0.0874	32.15	13.54	45.69	108.77	-63.08	AVG	
3		0.1314	25.14	13.55	38.69	105.24	-66.55	AVG	

REMARKS:

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

Test Mode: TX G Mode Channel 06

Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2630	32.65	13.63	46.28	99.21	-52.93	AVG	
2	*	2.1440	31.47	11.73	43.20	69.54	-26.34	QP	
3		11.1977	22.95	11.62	34.57	69.54	-34.97	QP	

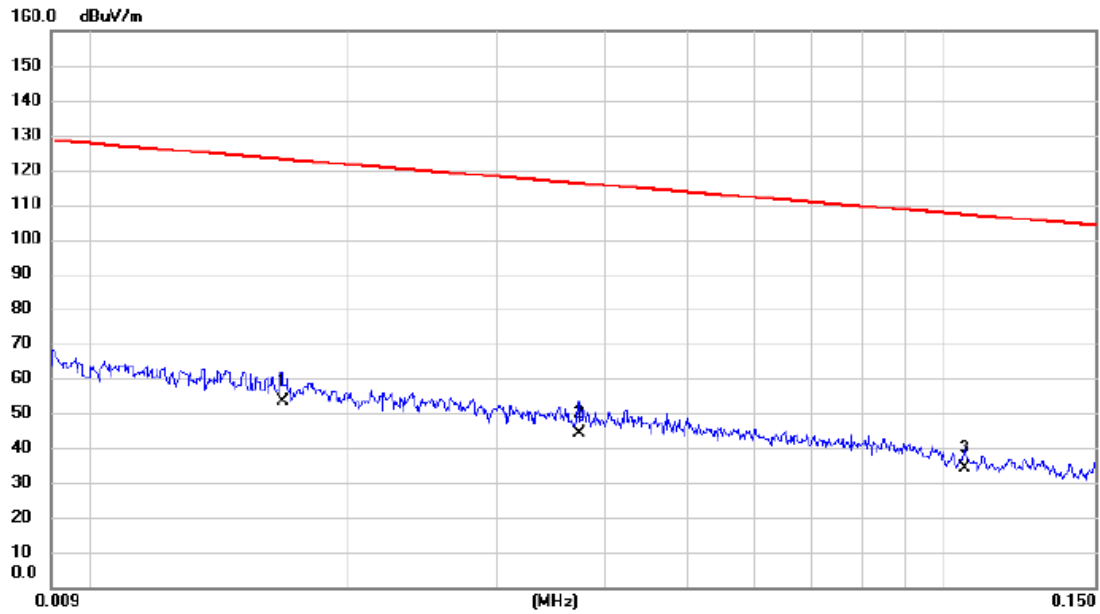
REMARKS:

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

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

Test Mode: TX G Mode Channel 06

Ant 90°



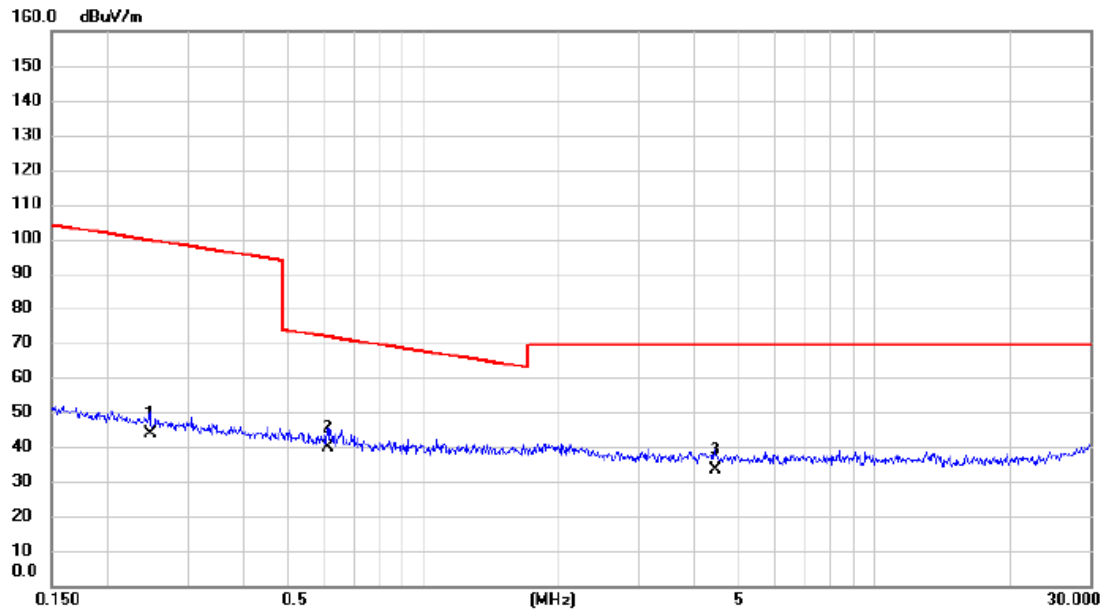
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0168	38.64	14.78	53.42	123.10	-69.68	AVG	
2		0.0374	30.45	13.89	44.34	116.15	-71.81	AVG	
3		0.1055	20.74	13.54	34.28	107.14	-72.86	AVG	

REMARKS:

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

Test Mode: TX G Mode Channel 06

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2481	30.31	13.66	43.97	99.71	-55.74	AVG	
2	*	0.6140	26.85	12.84	39.69	71.84	-32.15	QP	
3		4.4305	22.46	10.91	33.37	69.54	-36.17	QP	

REMARKS:

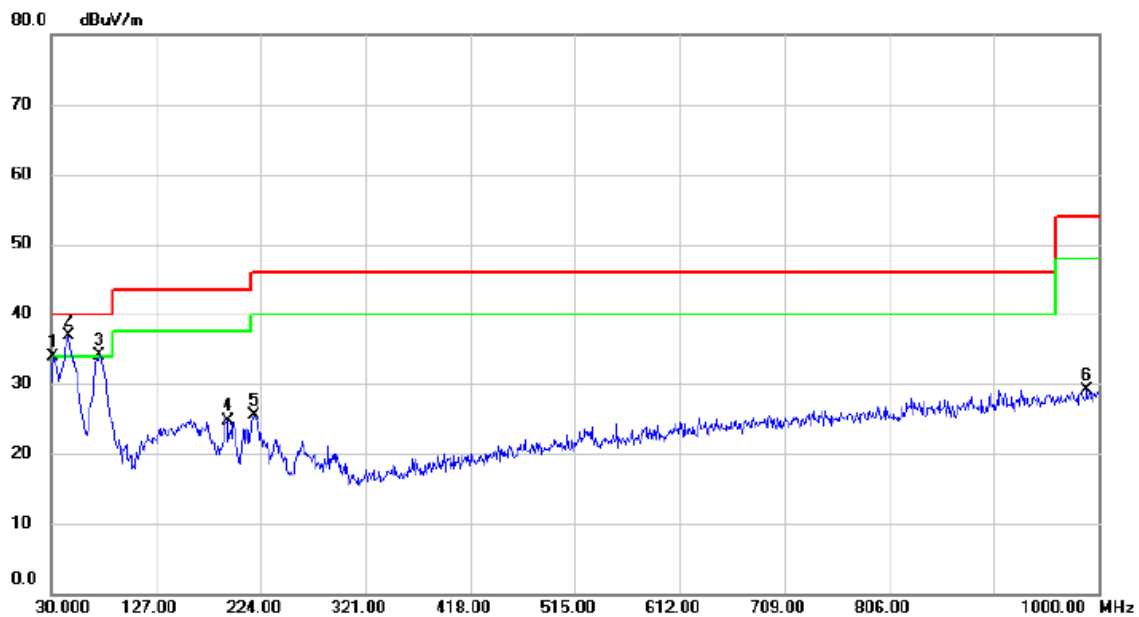
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode: TX G Mode Channel 06

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		31.940	48.76	-14.81	33.95	40.00	-6.05	peak	
2	*	46.490	51.28	-14.30	36.98	40.00	-3.02	peak	
3	!	74.620	51.21	-17.11	34.10	40.00	-5.90	peak	
4		192.960	39.47	-14.74	24.73	43.50	-18.77	peak	
5		218.180	40.31	-14.87	25.44	46.00	-20.56	peak	
6		989.330	29.14	-0.03	29.11	54.00	-24.89	peak	

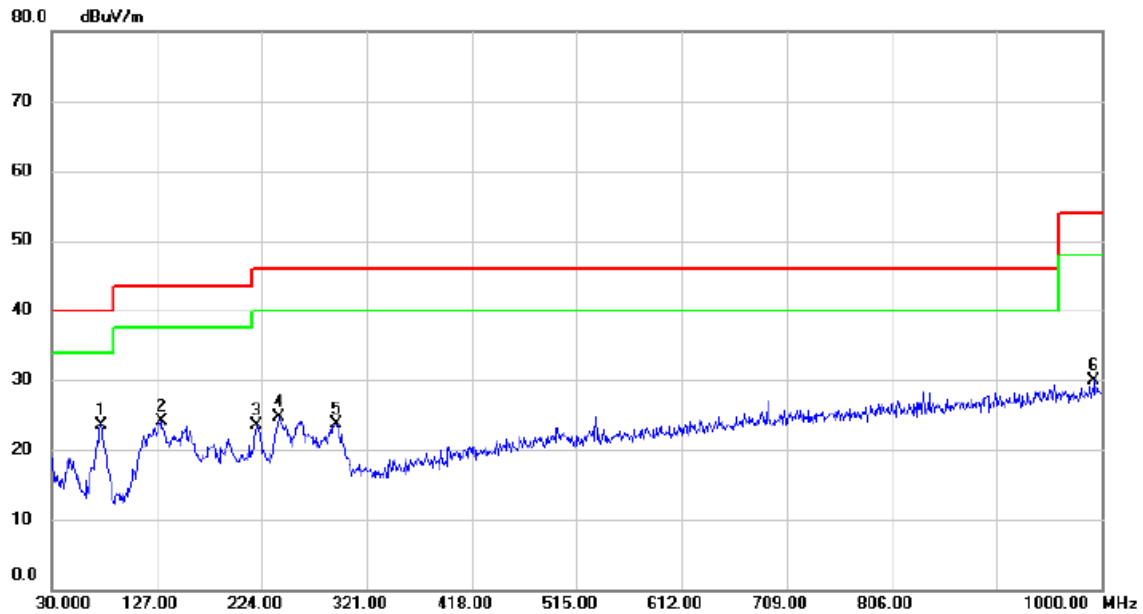
REMARKS:

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

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

Test Mode: TX G Mode Channel 06

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	75.590	40.88	-17.30	23.58	40.00	-16.42	peak	
2		130.880	37.14	-13.09	24.05	43.50	-19.45	peak	
3		219.150	38.25	-14.79	23.46	46.00	-22.54	peak	
4		239.520	38.73	-14.08	24.65	46.00	-21.35	peak	
5		292.870	35.68	-11.89	23.79	46.00	-22.21	peak	
6		993.210	29.90	0.02	29.92	54.00	-24.08	peak	

REMARKS:

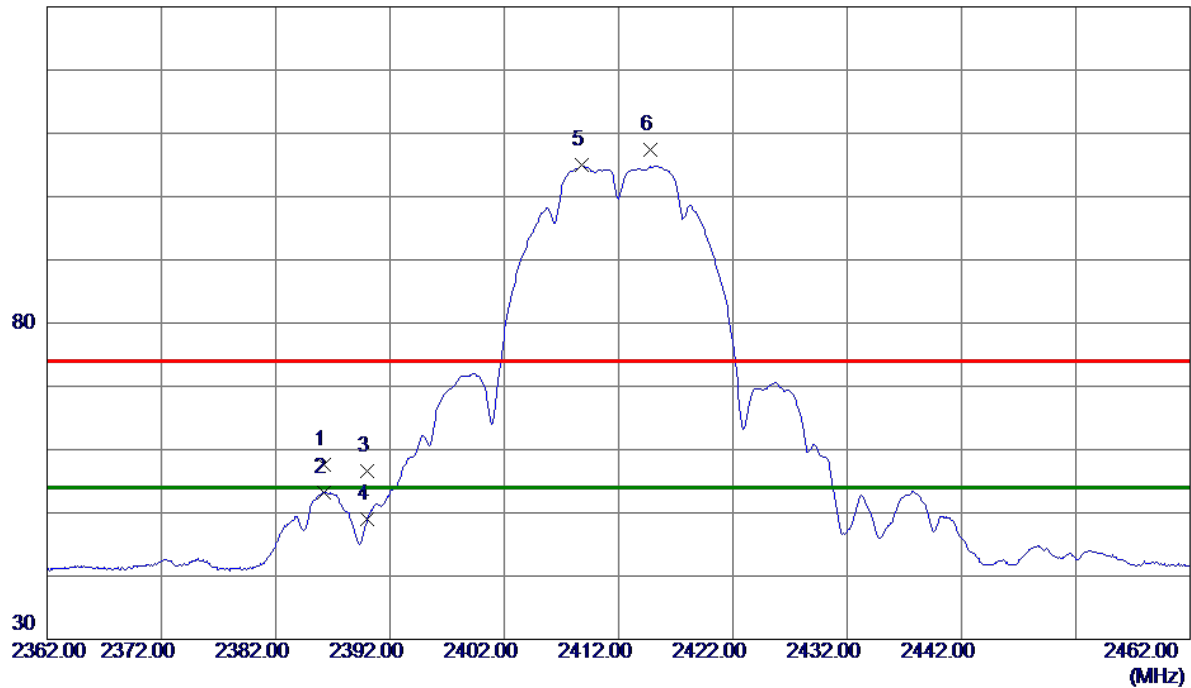
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode: TX B Mode 2412 MHz

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	2386.2500	51.01	6.54	57.55	74.00	-16.45	Peak	
2	2386.2500	46.73	6.54	53.27	54.00	-0.73	AVG	
3	2390.0000	50.13	6.53	56.66	74.00	-17.34	Peak	
4	2390.0000	42.56	6.53	49.09	54.00	-4.91	AVG	
5 *	2408.7500	98.40	6.51	104.91	54.00	50.91	AVG	No Limit
6	2414.8000	100.88	6.50	107.38	74.00	33.38	Peak	No Limit

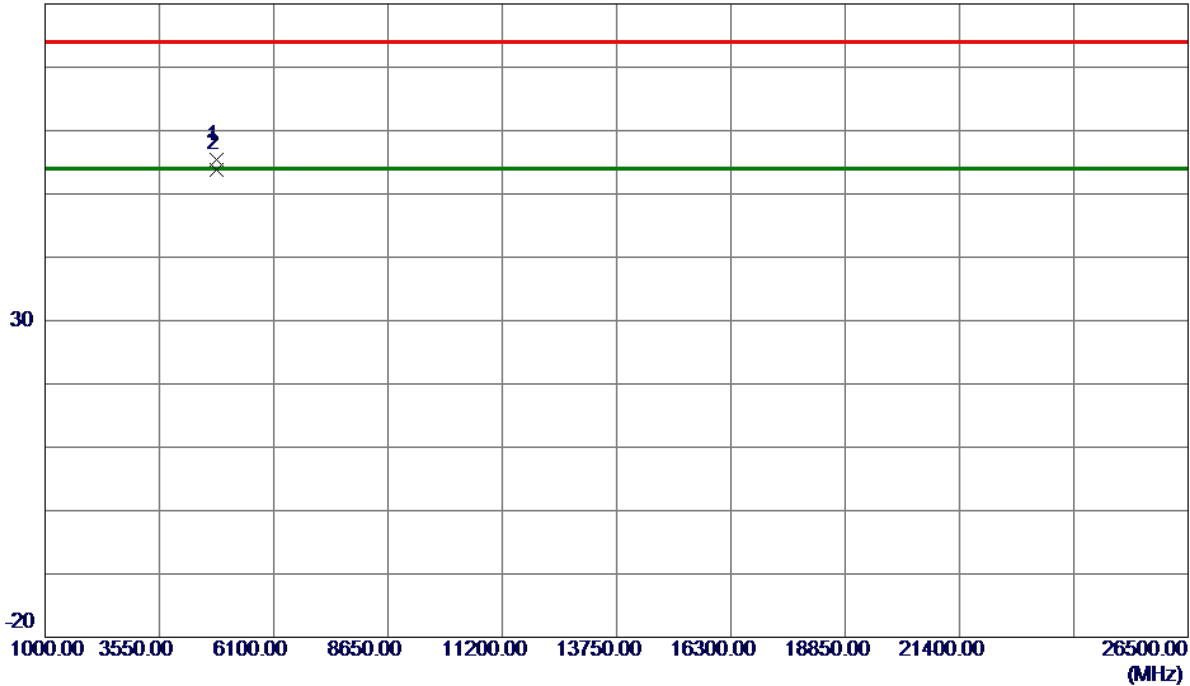
REMARKS:

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

Test Mode:	TX B Mode 2412 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0080	51.90	3.43	55.33	74.00	-18.67	Peak	
2 *	4824.0299	50.47	3.43	53.90	54.00	-0.10	AVG	

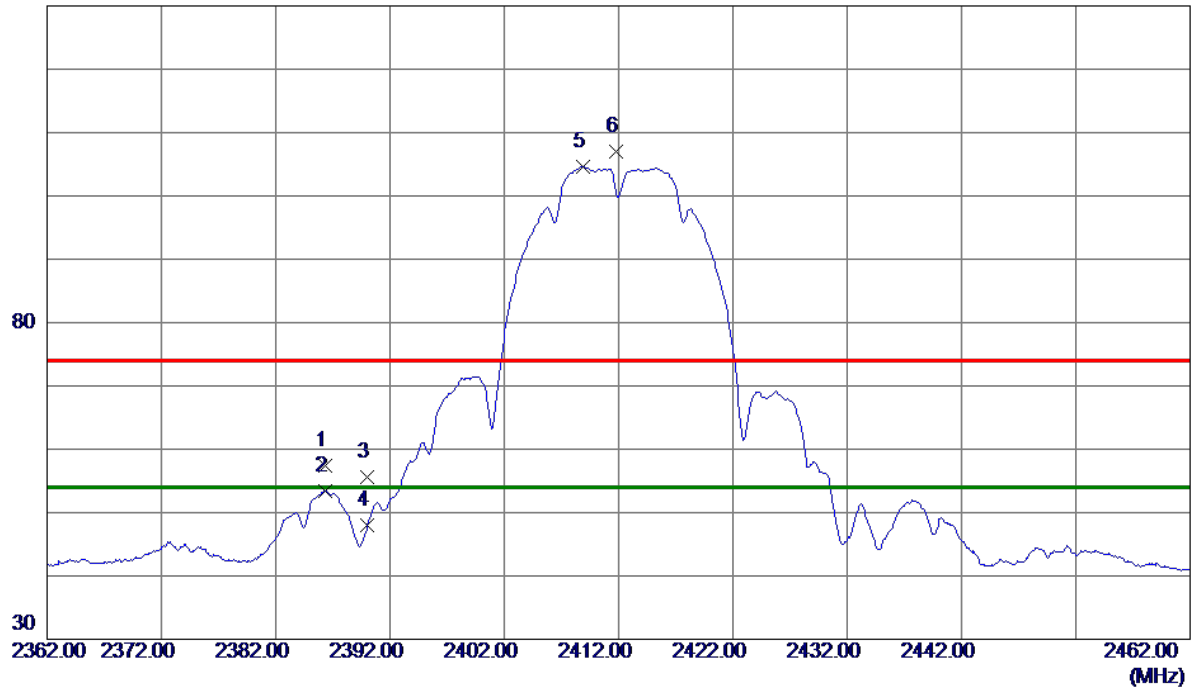
REMARKS:

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

Test Mode: TX B Mode 2412 MHz

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	2386.3500	50.84	6.54	57.38	74.00	-16.62	Peak	
2	2386.3500	46.93	6.54	53.47	54.00	-0.53	AVG	
3	2390.0000	49.02	6.53	55.55	74.00	-18.45	Peak	
4	2390.0000	41.49	6.53	48.02	54.00	-5.98	AVG	
5 *	2408.8500	98.14	6.51	104.65	54.00	50.65	AVG	No Limit
6	2411.8000	100.47	6.51	106.98	74.00	32.98	Peak	No Limit

REMARKS:

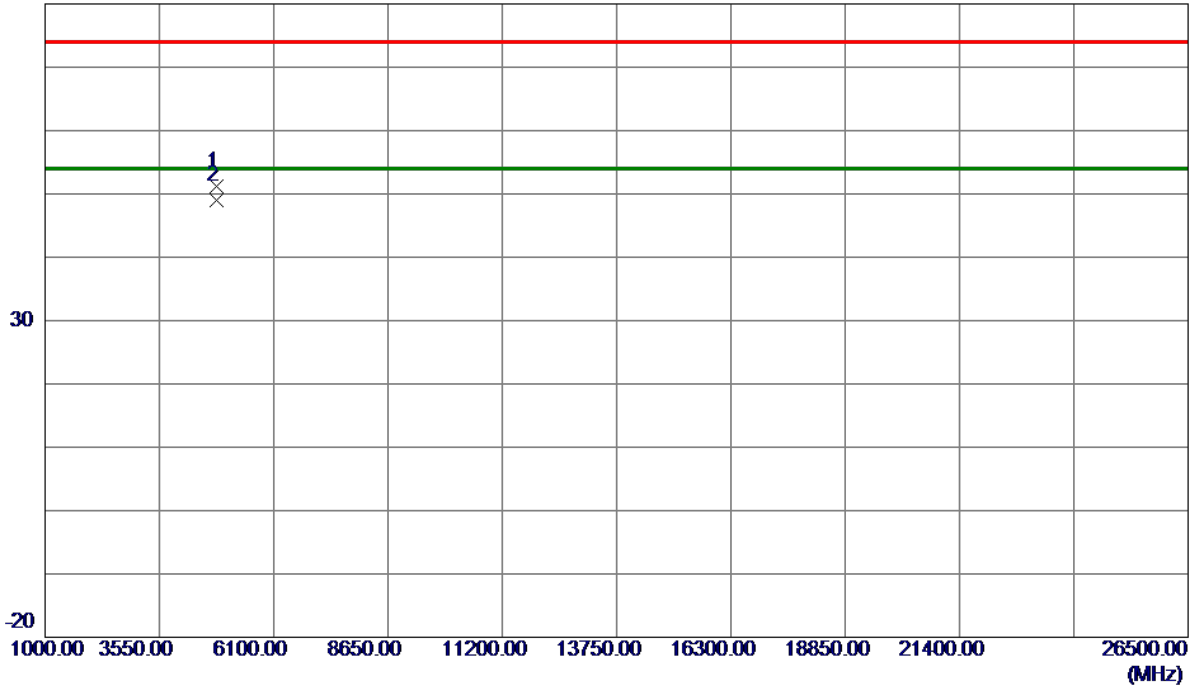
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2412 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0059	47.86	3.43	51.29	74.00	-22.71	Peak	
2 *	4824.0099	45.58	3.43	49.01	54.00	-4.99	AVG	

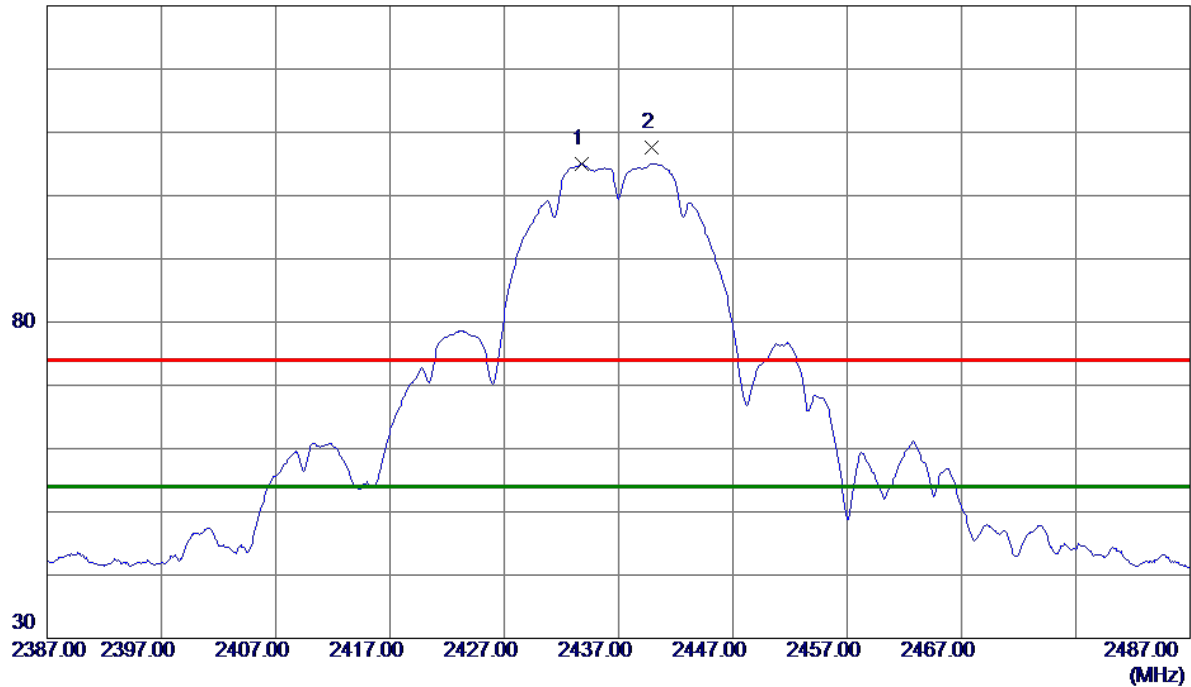
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

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 *	2433.8000	98.60	6.48	105.08	54.00	51.08	AVG	No Limit
2	2439.8500	101.09	6.47	107.56	74.00	33.56	Peak	No Limit

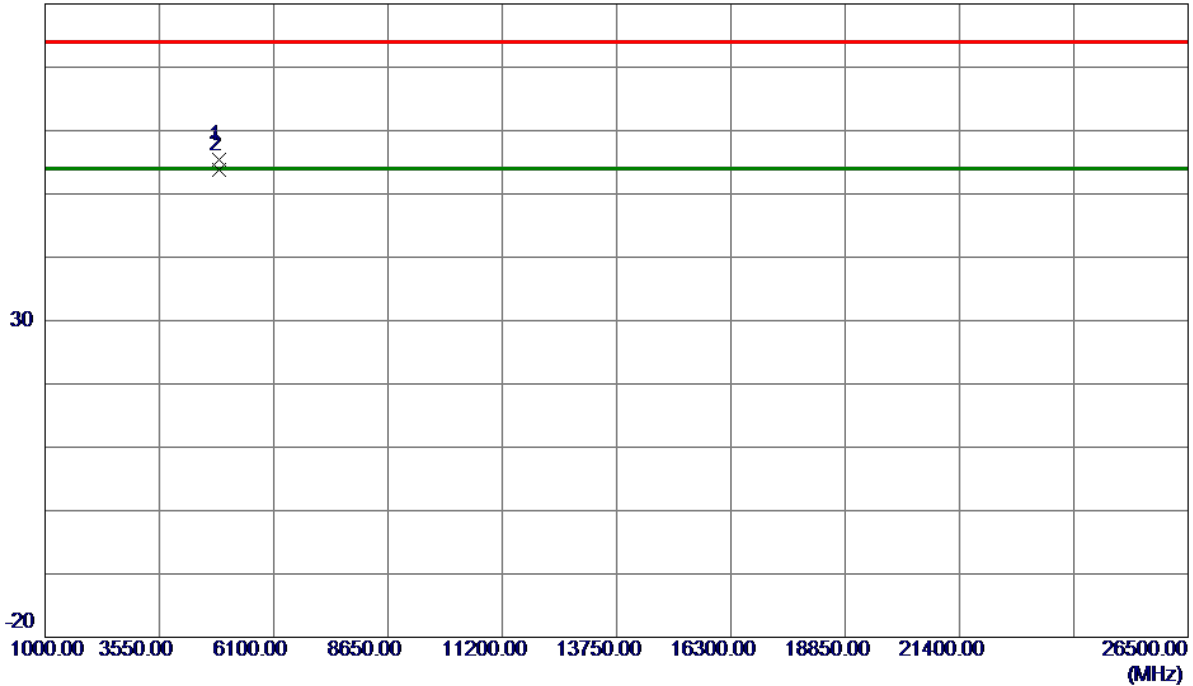
REMARKS:

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

Test Mode:	TX B Mode 2437 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9760	51.78	3.58	55.36	74.00	-18.64	Peak	
2 *	4874.0130	50.29	3.58	53.87	54.00	-0.13	AVG	

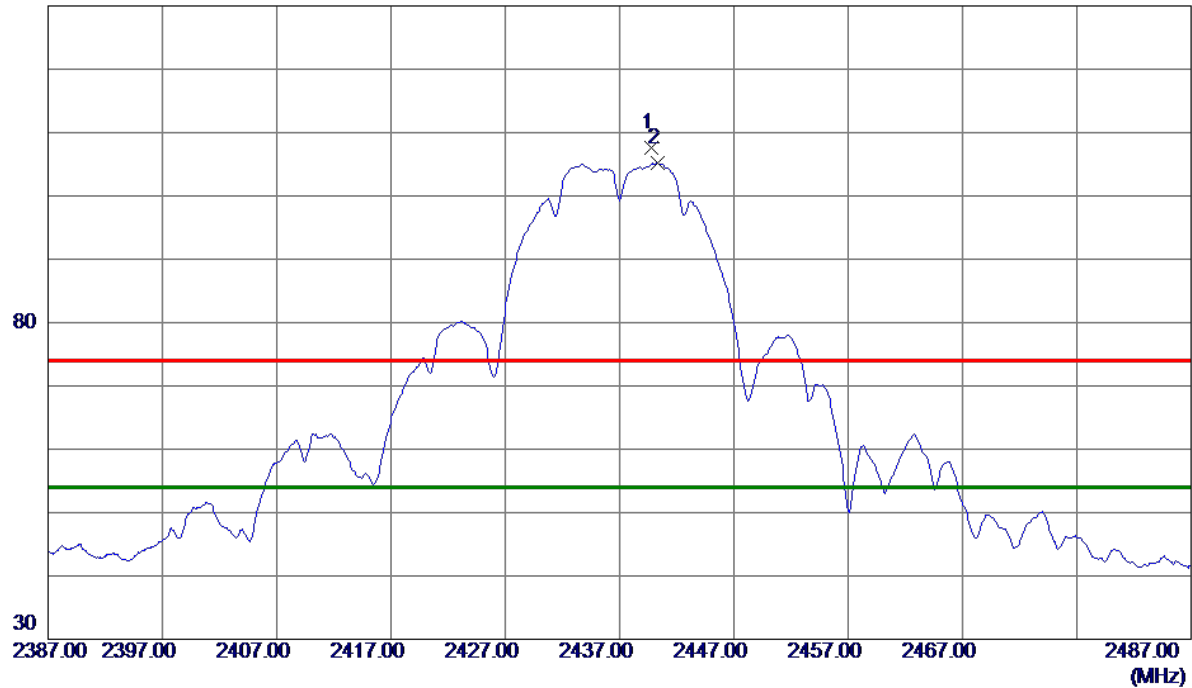
REMARKS:

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

Test Mode: TX B Mode 2437 MHz

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	2439.8000	101.14	6.47	107.61	74.00	33.61	Peak	No Limit
2 *	2440.3000	98.67	6.47	105.14	54.00	51.14	AVG	No Limit

REMARKS:

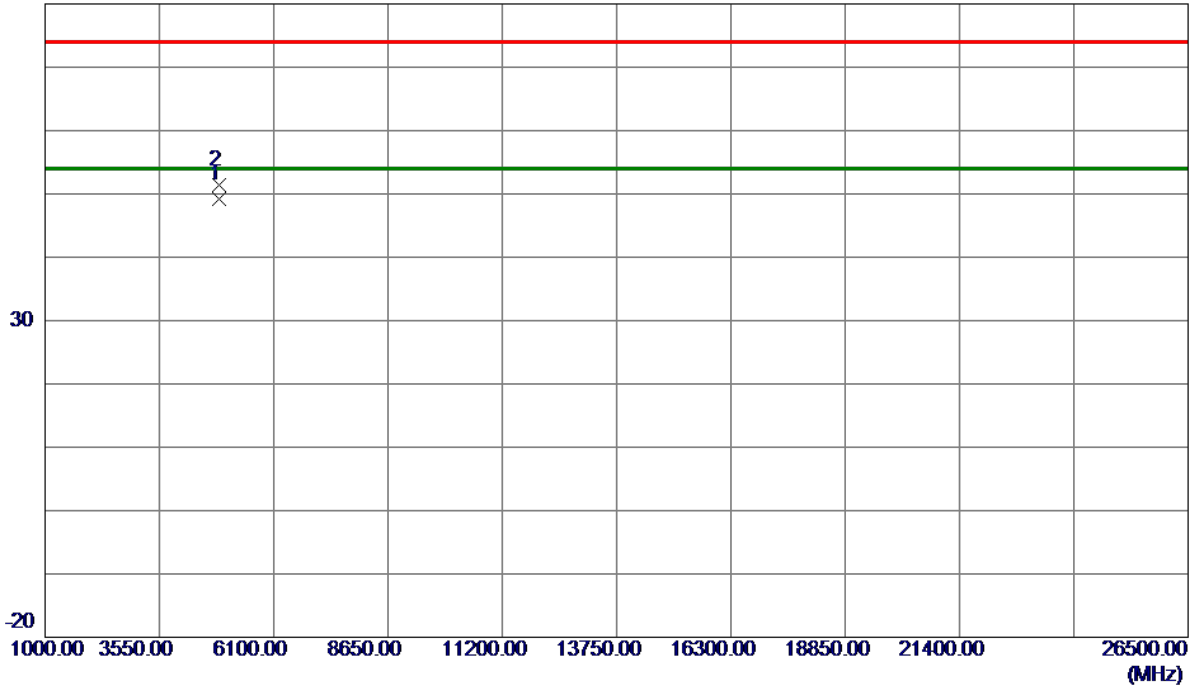
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2437 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0050	45.58	3.58	49.16	54.00	-4.84	AVG	
2	4874.0930	47.79	3.58	51.37	74.00	-22.63	Peak	

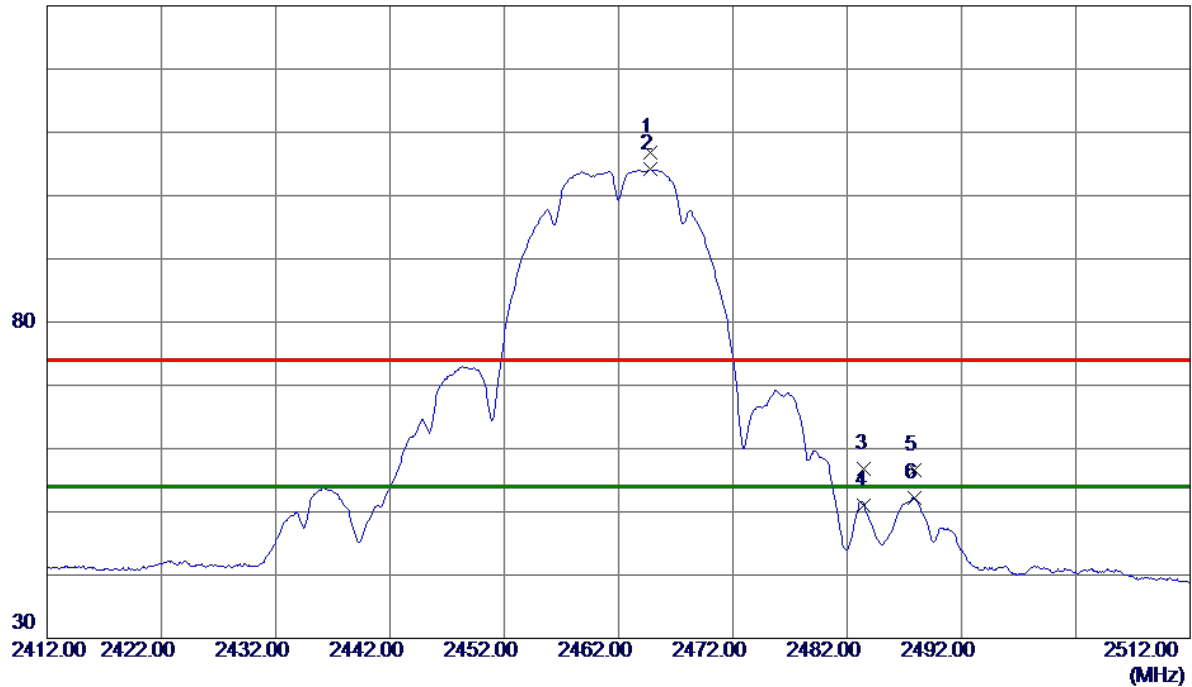
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

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	2464.8000	100.26	6.45	106.71	74.00	32.71	Peak	No Limit
2 *	2464.8000	97.71	6.45	104.16	54.00	50.16	AVG	No Limit
3	2483.5000	50.34	6.42	56.76	74.00	-17.24	Peak	
4	2483.5000	44.55	6.42	50.97	54.00	-3.03	AVG	
5	2487.8500	50.16	6.42	56.58	74.00	-17.42	Peak	
6	2487.8500	45.83	6.42	52.25	54.00	-1.75	AVG	

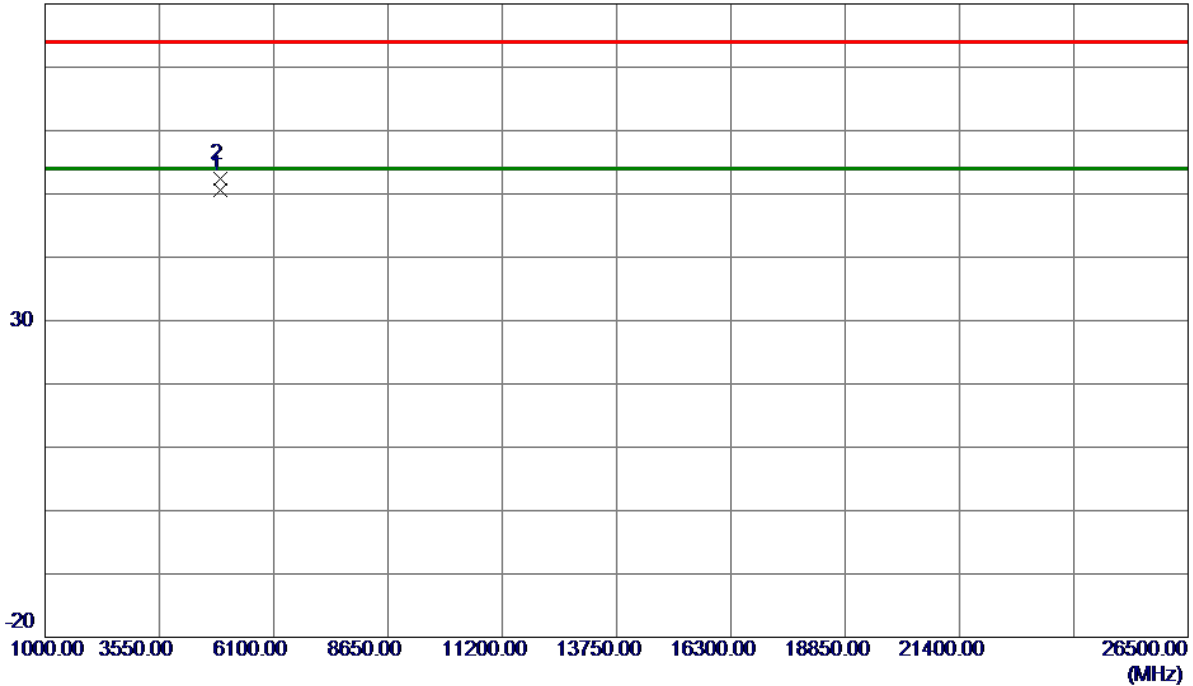
REMARKS:

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

Test Mode:	TX B Mode 2462 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9940	46.87	3.73	50.60	54.00	-3.40	AVG	
2	4924.0290	48.75	3.73	52.48	74.00	-21.52	Peak	

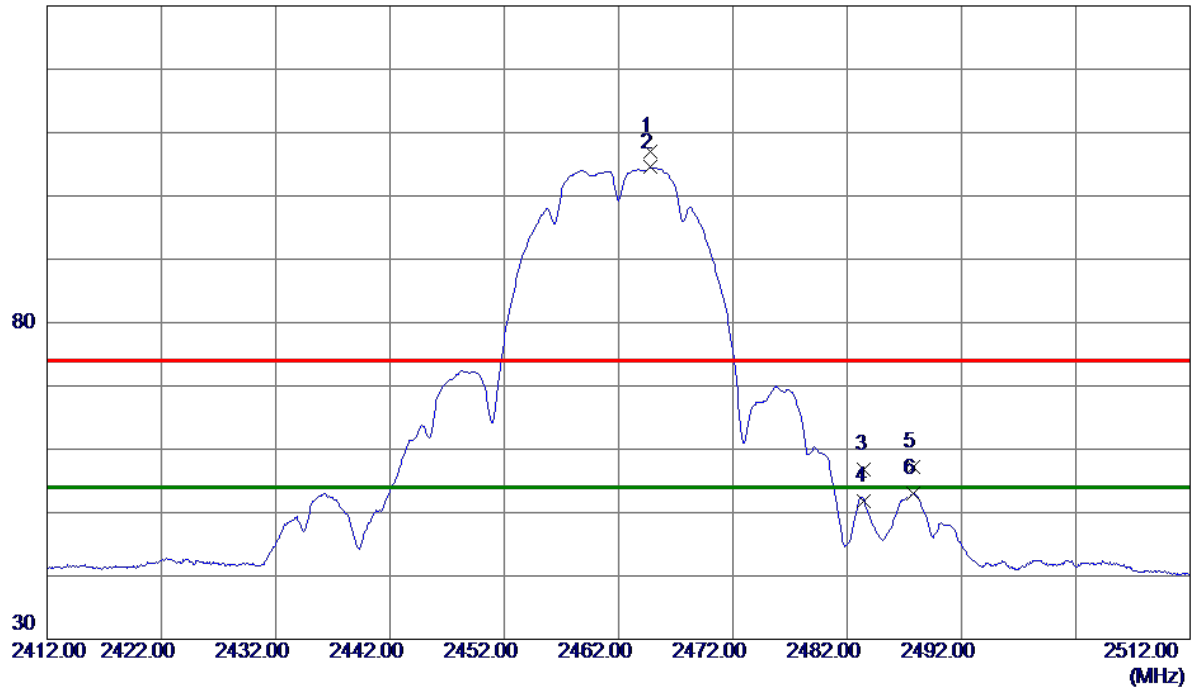
REMARKS:

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

Test Mode: TX B Mode 2462 MHz

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	2464.8000	100.61	6.45	107.06	74.00	33.06	Peak	No Limit
2 *	2464.8000	98.05	6.45	104.50	54.00	50.50	AVG	No Limit
3	2483.5000	50.31	6.42	56.73	74.00	-17.27	Peak	
4	2483.5000	45.33	6.42	51.75	54.00	-2.25	AVG	
5	2487.7500	50.71	6.42	57.13	74.00	-16.87	Peak	
6	2487.7500	46.66	6.42	53.08	54.00	-0.92	AVG	

REMARKS:

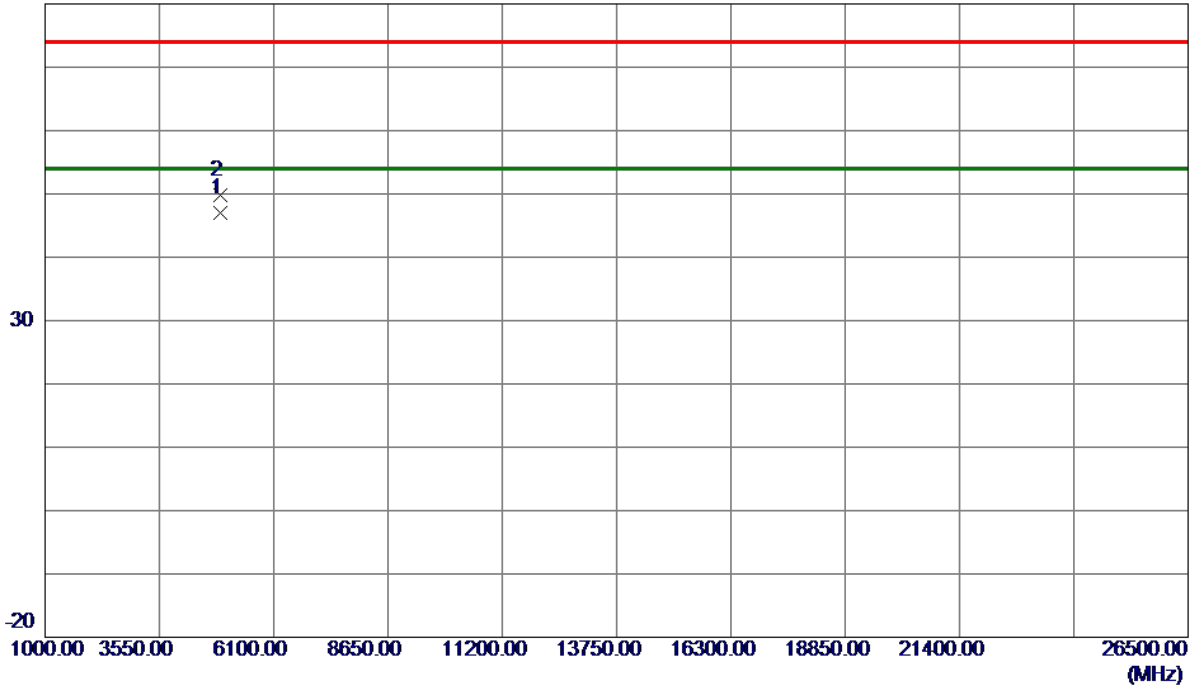
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX B Mode 2462 MHz
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Horizontal

80 dBuV/m



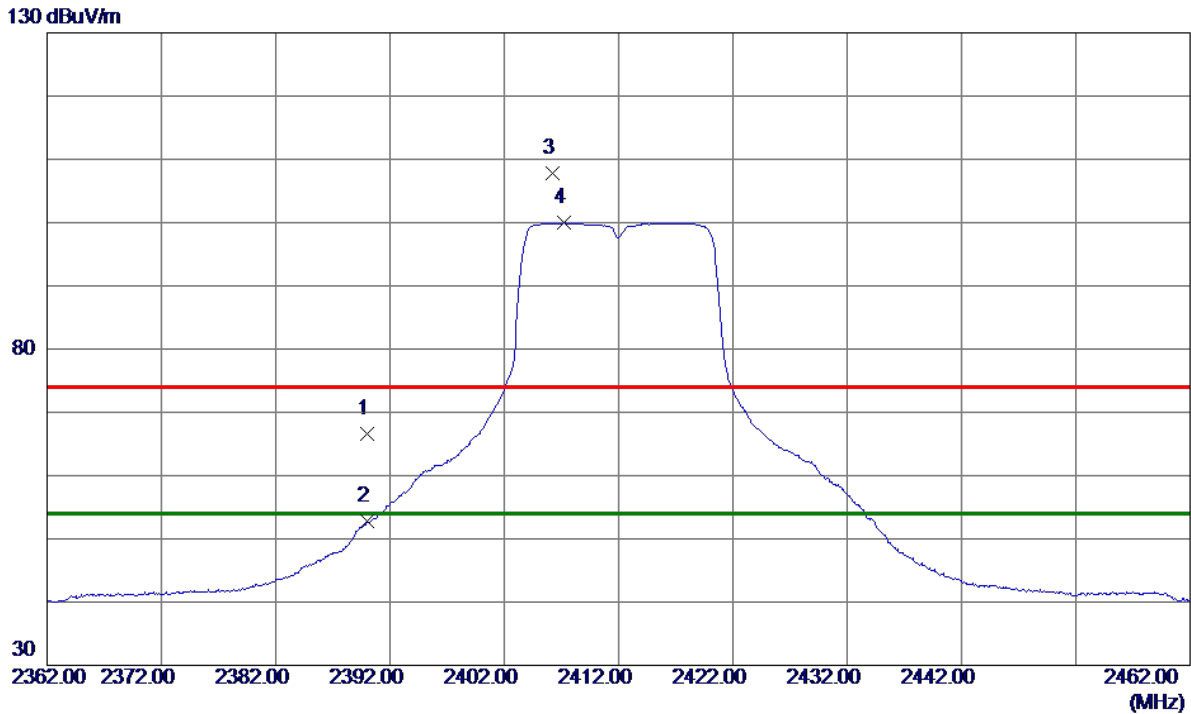
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9760	43.28	3.73	47.01	54.00	-6.99	AVG	
2	4923.9840	46.01	3.73	49.74	74.00	-24.26	Peak	

REMARKS:

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

Test Mode: TX G Mode 2412 MHz

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	60.11	6.53	66.64	74.00	-7.36	Peak	
2	2390.0000	46.28	6.53	52.81	54.00	-1.19	AVG	
3	2406.2500	101.32	6.51	107.83	74.00	33.83	Peak	No Limit
4 *	2407.2000	93.43	6.51	99.94	54.00	45.94	AVG	No Limit

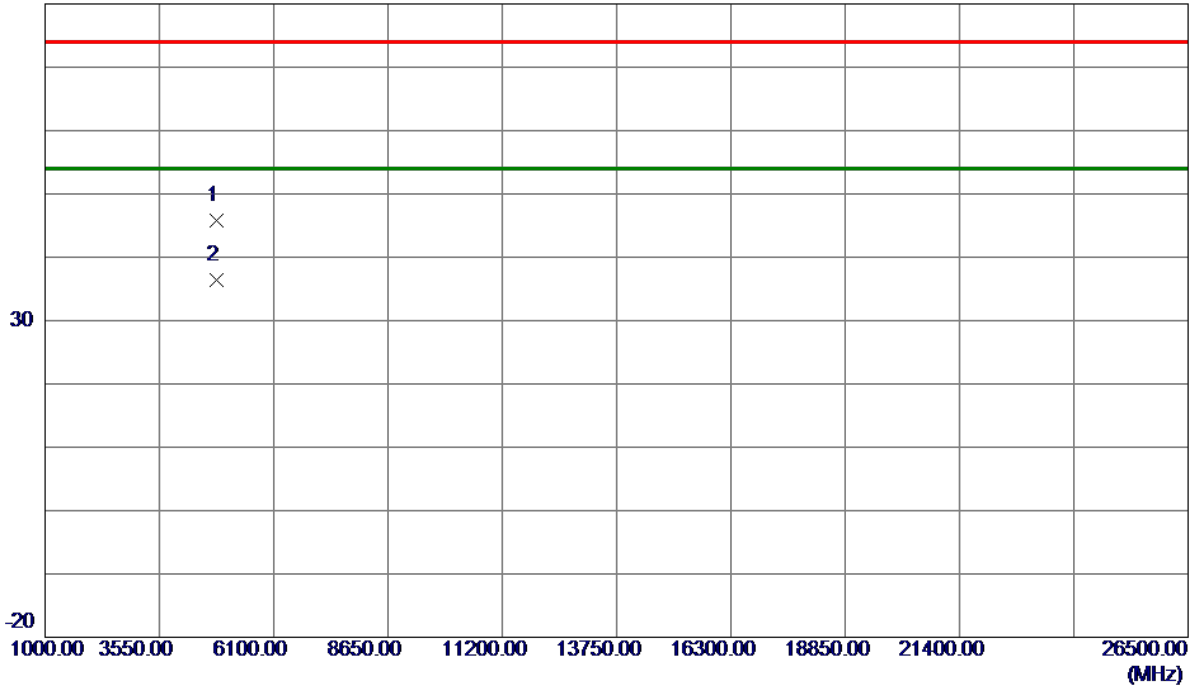
REMARKS:

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

Test Mode:	TX G Mode 2412 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.0750	42.36	3.42	45.78	74.00	-28.22	Peak	
2 *	4823.9750	32.91	3.43	36.34	54.00	-17.66	AVG	

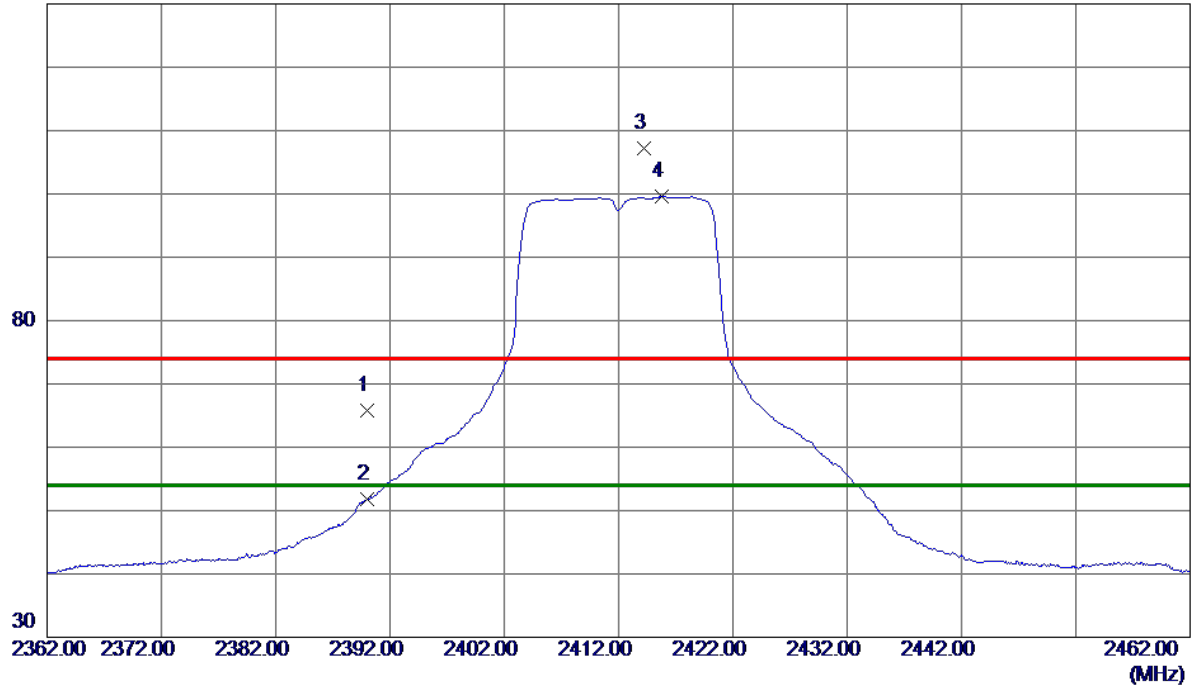
REMARKS:

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

Test Mode: TX G Mode 2412 MHz

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	59.19	6.53	65.72	74.00	-8.28	Peak	
2	2390.0000	45.23	6.53	51.76	54.00	-2.24	AVG	
3	2414.2500	100.68	6.50	107.18	74.00	33.18	Peak	No Limit
4 *	2415.7500	93.06	6.50	99.56	54.00	45.56	AVG	No Limit

REMARKS:

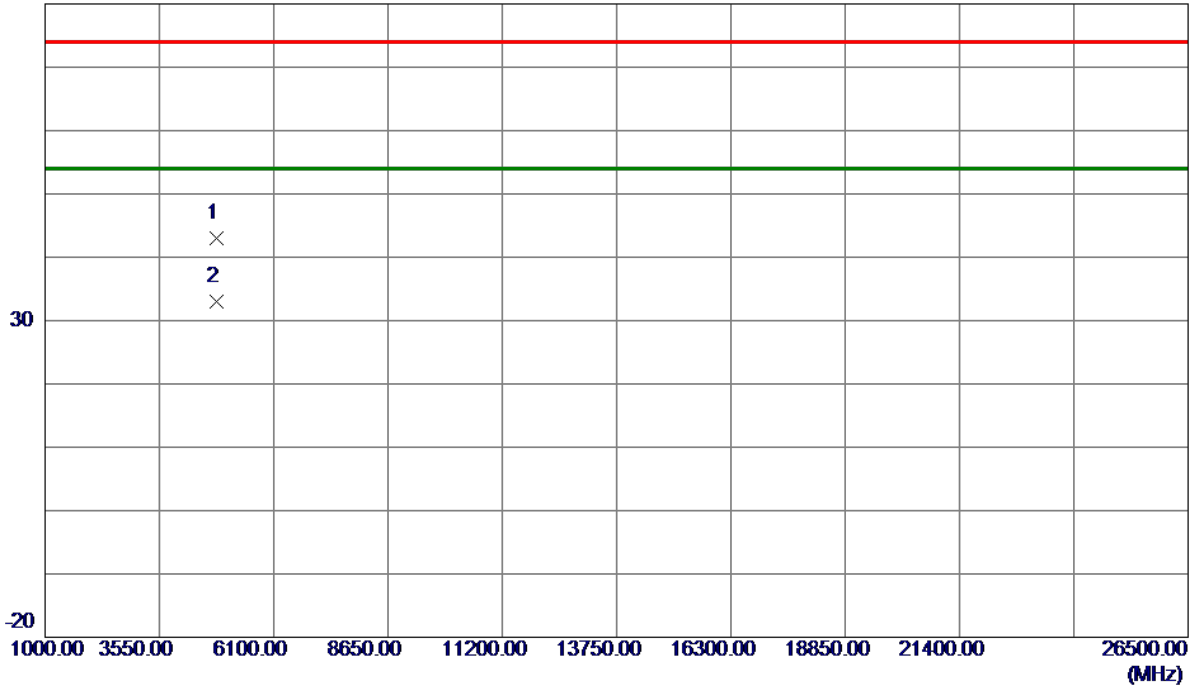
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX G Mode 2412 MHz
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Horizontal

80 dBuV/m



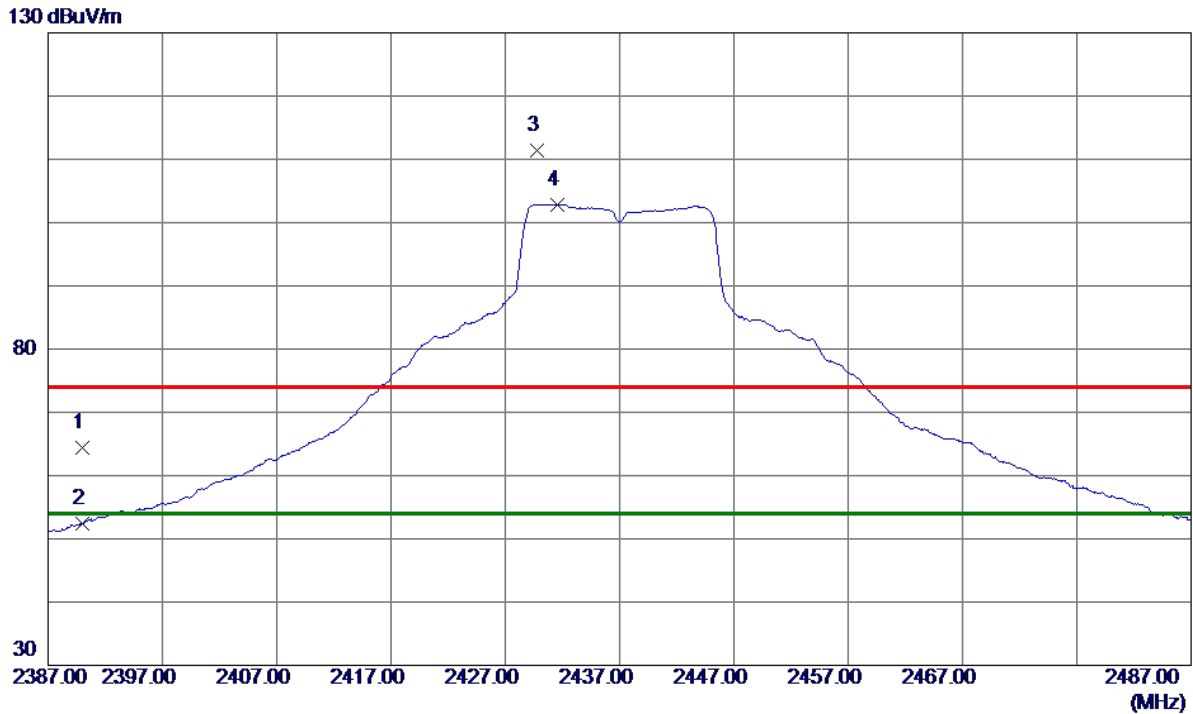
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9000	39.56	3.43	42.99	74.00	-31.01	Peak	
2 *	4823.9500	29.62	3.43	33.05	54.00	-20.95	AVG	

REMARKS:

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

Test Mode: TX G Mode 2437 MHz

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	57.80	6.53	64.33	74.00	-9.67	Peak	
2	2390.0000	45.86	6.53	52.39	54.00	-1.61	AVG	
3	2429.7500	104.82	6.49	111.31	74.00	37.31	Peak	No Limit
4 *	2431.6000	96.39	6.48	102.87	54.00	48.87	AVG	No Limit

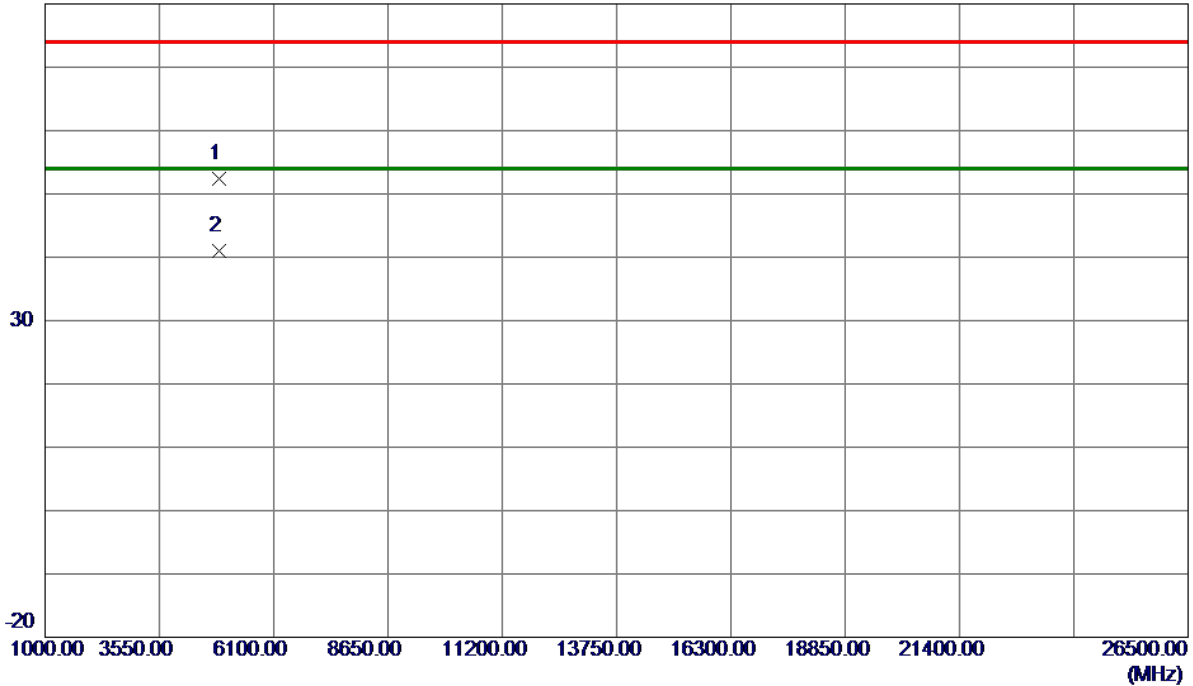
REMARKS:

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

Test Mode:	TX G Mode 2437 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.7000	48.82	3.57	52.39	74.00	-21.61	Peak	
2 *	4873.9750	37.47	3.58	41.05	54.00	-12.95	AVG	

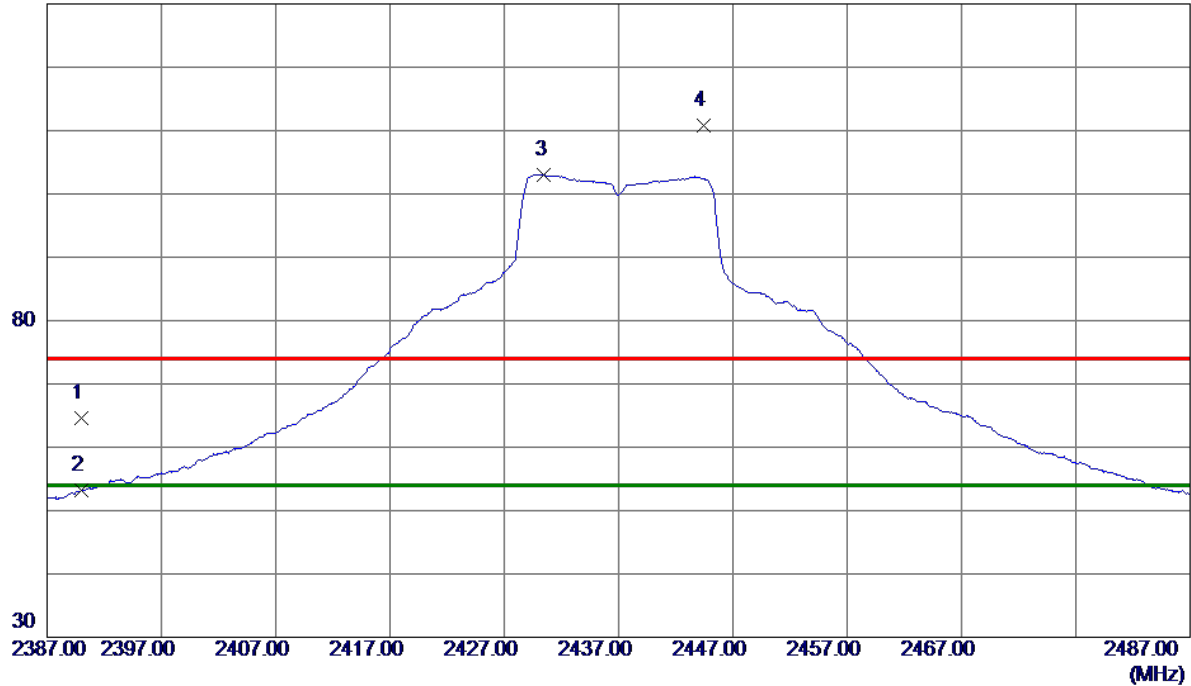
REMARKS:

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

Test Mode: TX G Mode 2437 MHz

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	58.00	6.53	64.53	74.00	-9.47	Peak	
2	2390.0000	46.61	6.53	53.14	54.00	-0.86	AVG	
3 *	2430.5000	96.55	6.48	103.03	54.00	49.03	AVG	No Limit
4	2444.4000	104.39	6.47	110.86	74.00	36.86	Peak	No Limit

REMARKS:

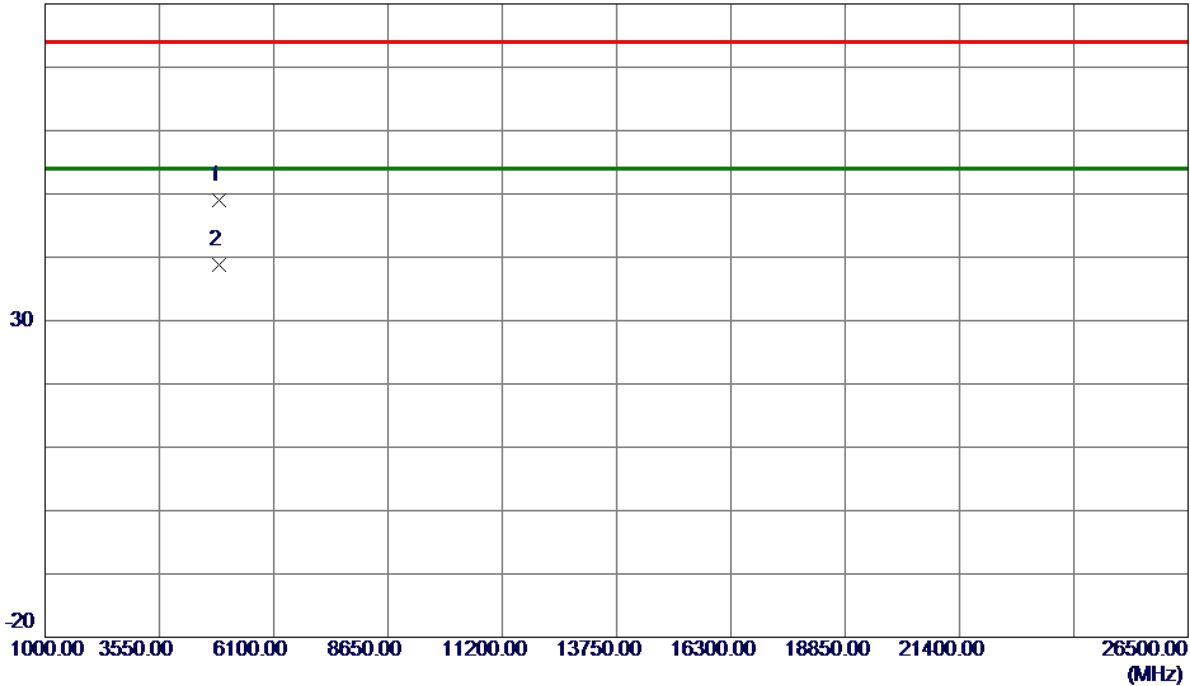
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX G Mode 2437 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.5500	45.35	3.57	48.92	74.00	-25.08	Peak	
2 *	4873.9500	35.15	3.58	38.73	54.00	-15.27	AVG	

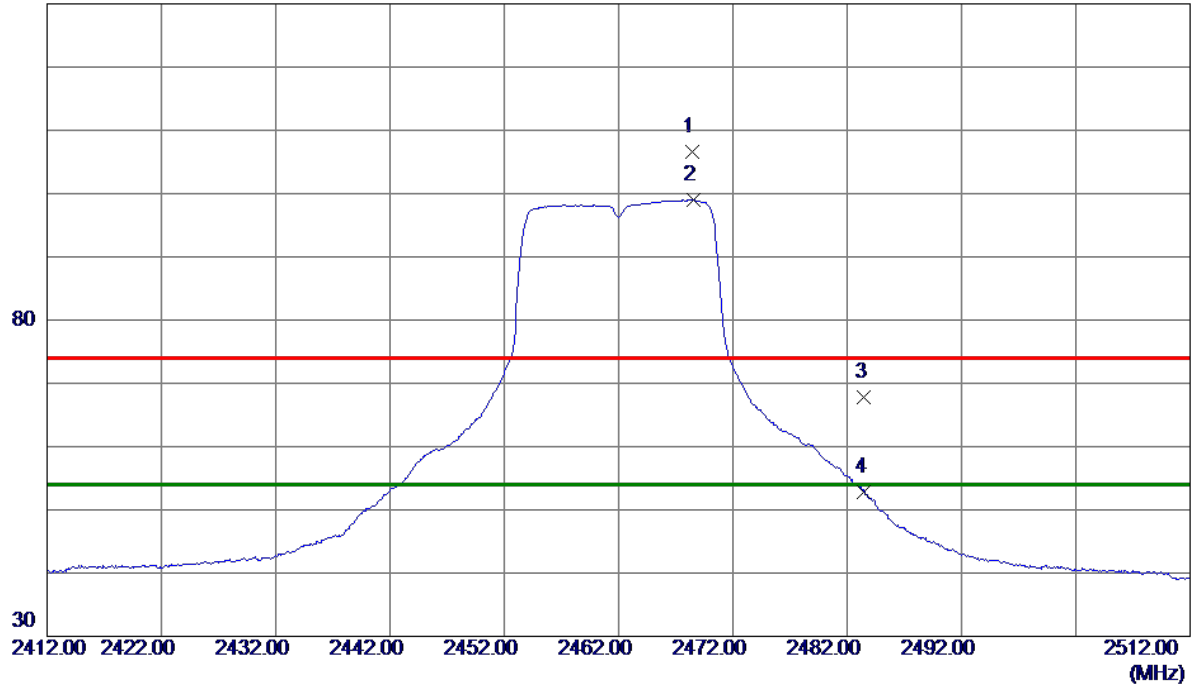
REMARKS:

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

Test Mode: TX G Mode 2462 MHz

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	2468.4000	100.16	6.44	106.60	74.00	32.60	Peak	No Limit
2 *	2468.5500	92.66	6.44	99.10	54.00	45.10	AVG	No Limit
3	2483.5000	61.45	6.42	67.87	74.00	-6.13	Peak	
4	2483.5000	46.39	6.42	52.81	54.00	-1.19	AVG	

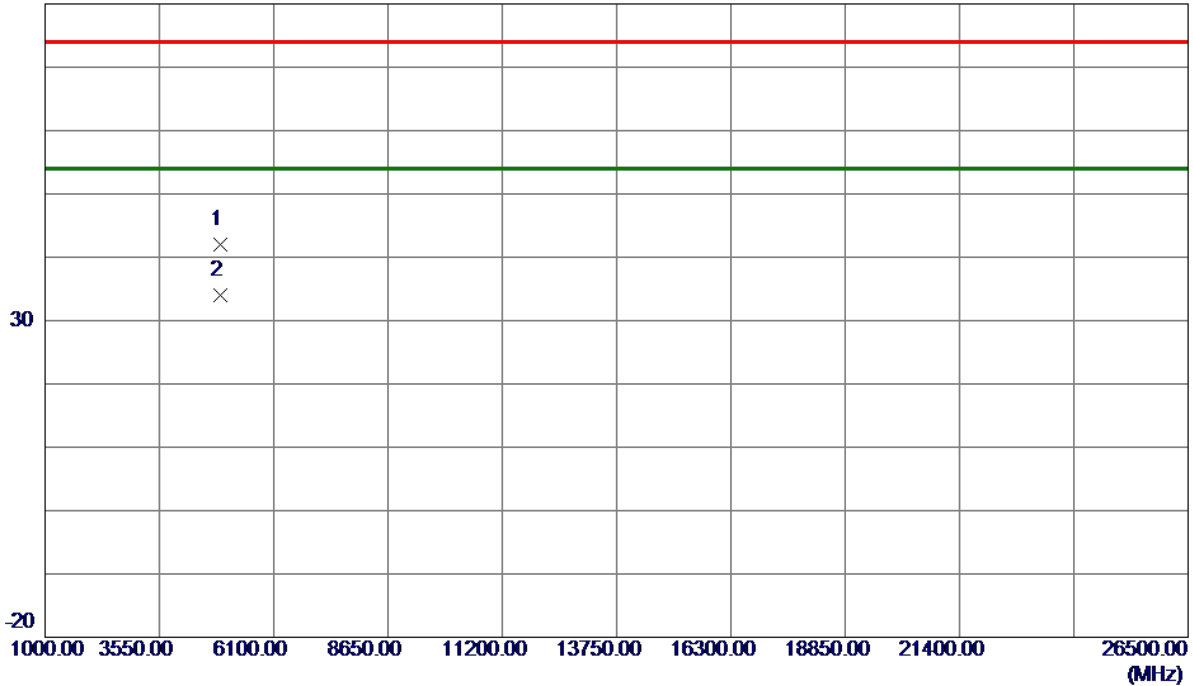
REMARKS:

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

Test Mode:	TX G Mode 2462 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9000	38.19	3.73	41.92	74.00	-32.08	Peak	
2 *	4924.0250	30.29	3.73	34.02	54.00	-19.98	AVG	

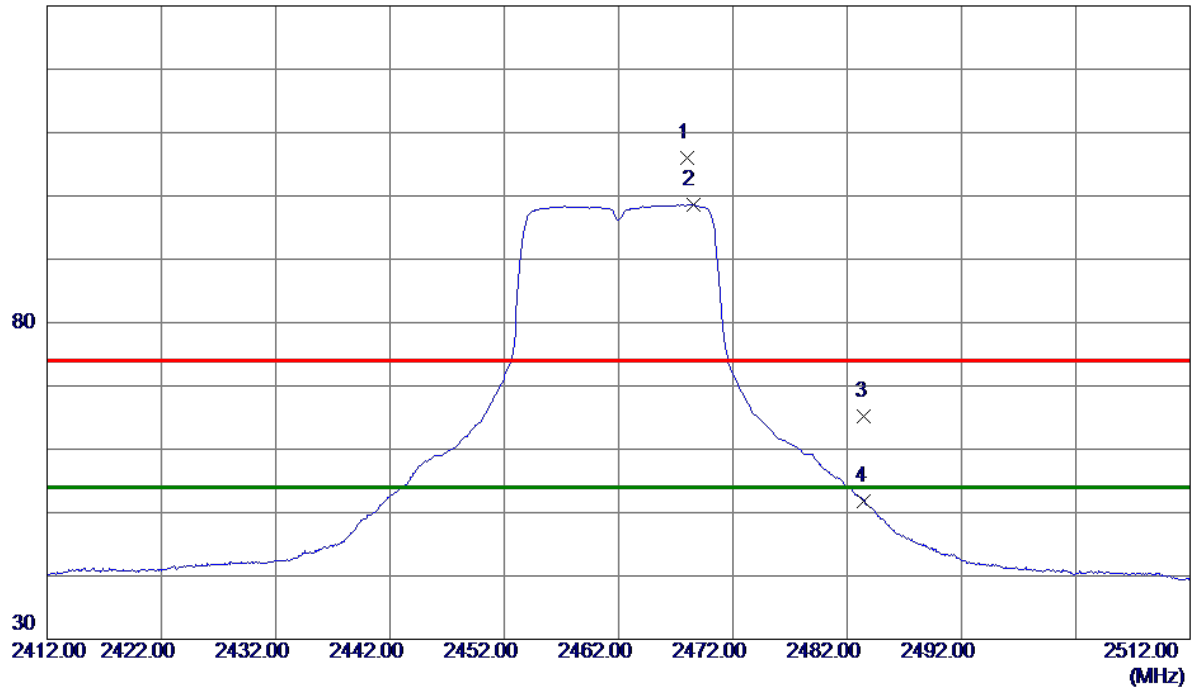
REMARKS:

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

Test Mode: TX G Mode 2462 MHz

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	2468.0000	99.62	6.44	106.06	74.00	32.06	Peak	No Limit
2 *	2468.5000	92.24	6.44	98.68	54.00	44.68	AVG	No Limit
3	2483.5000	58.86	6.42	65.28	74.00	-8.72	Peak	
4	2483.5000	45.31	6.42	51.73	54.00	-2.27	AVG	

REMARKS:

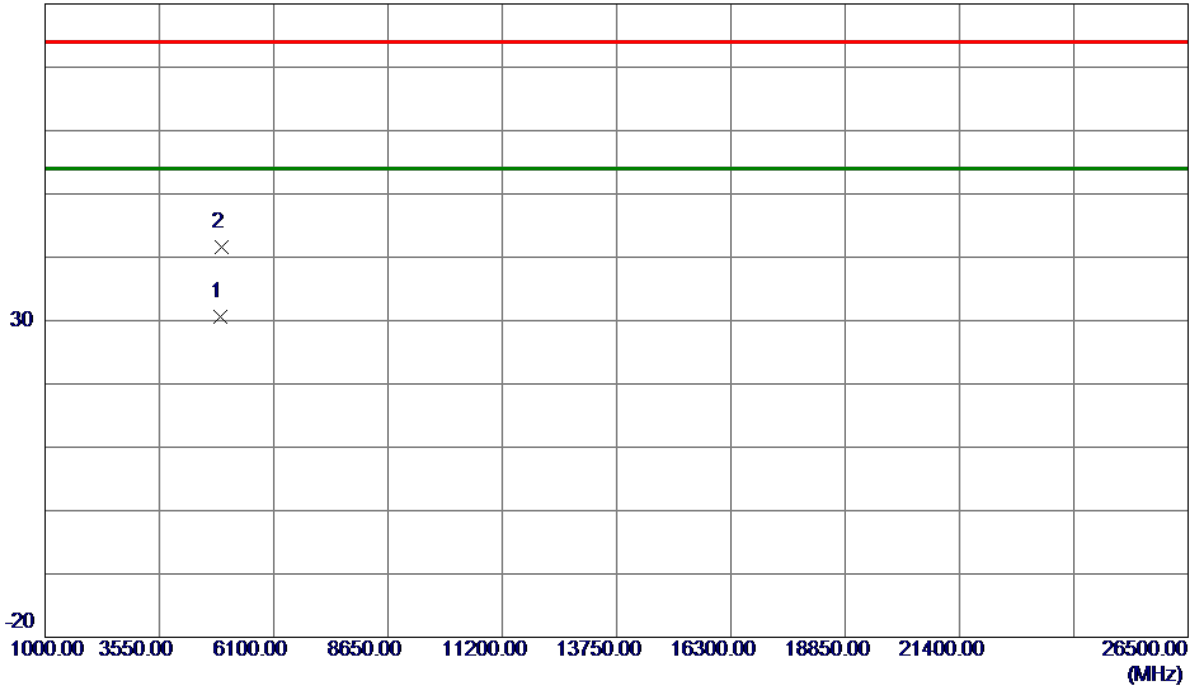
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX G Mode 2462 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0750	26.95	3.73	30.68	54.00	-23.32	AVG	
2	4933.1500	37.84	3.76	41.60	74.00	-32.40	Peak	

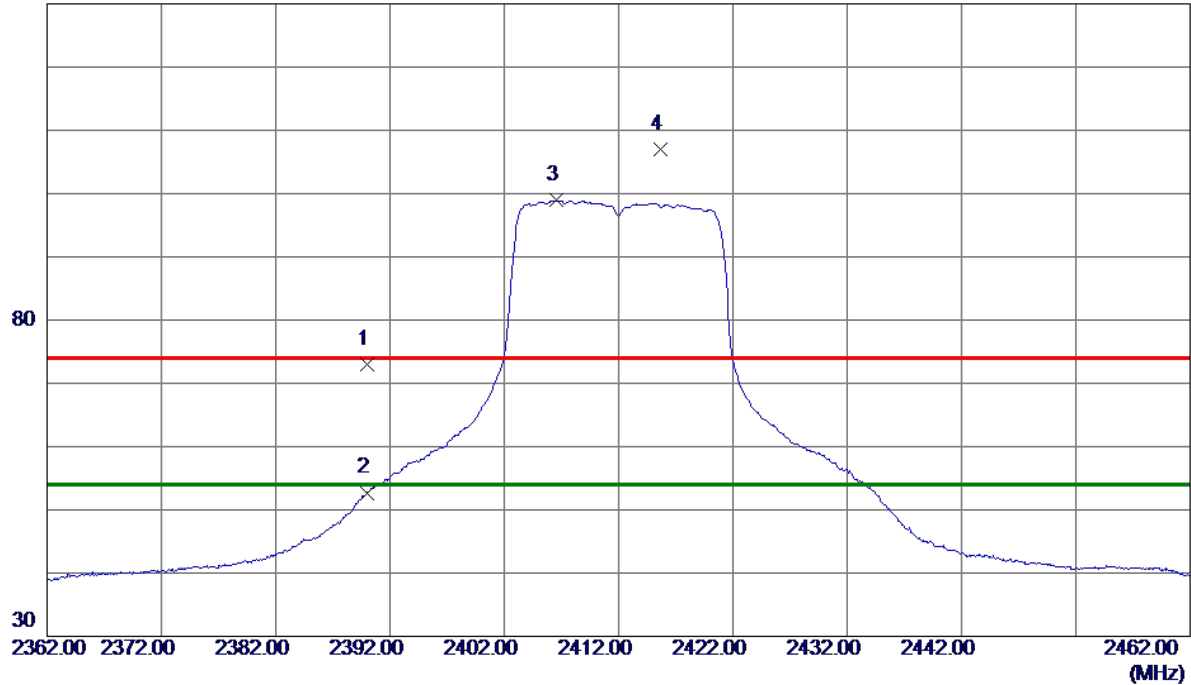
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

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	66.49	6.53	73.02	74.00	-0.98	Peak	
2	2390.0000	46.17	6.53	52.70	54.00	-1.30	AVG	
3 *	2406.6000	92.40	6.51	98.91	54.00	44.91	AVG	No Limit
4	2415.7000	100.48	6.50	106.98	74.00	32.98	Peak	No Limit

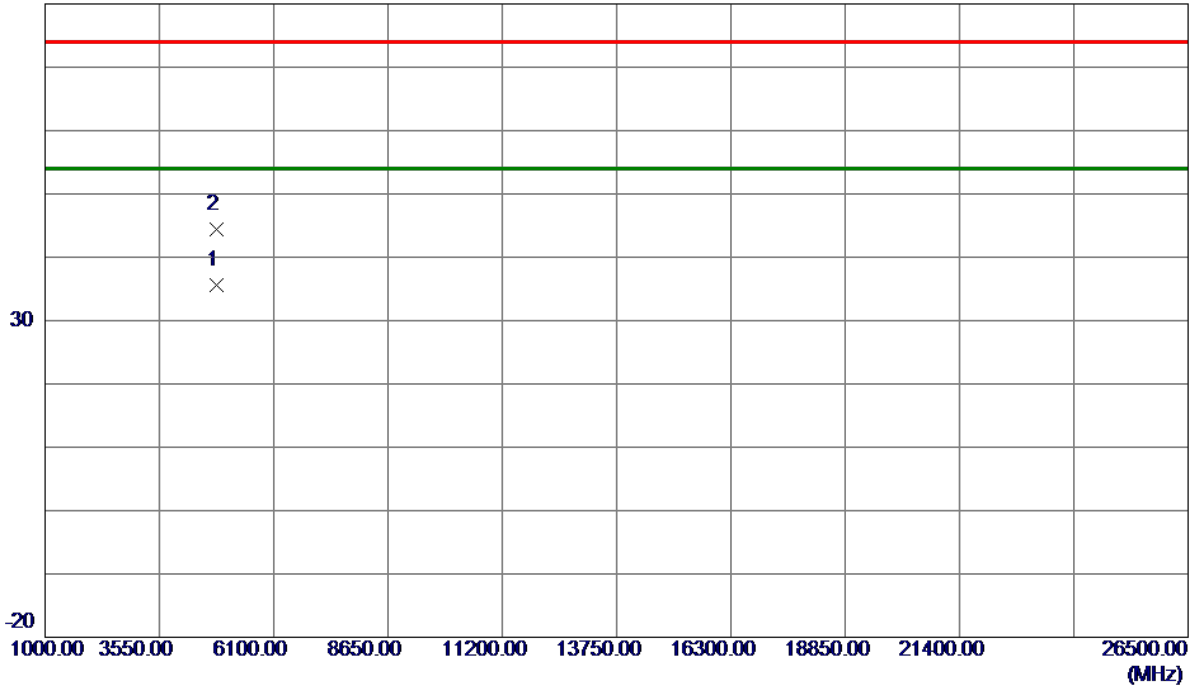
REMARKS:

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

Test Mode:	TX N-20M Mode 2412 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9750	32.13	3.43	35.56	54.00	-18.44	AVG	
2	4824.7750	41.03	3.43	44.46	74.00	-29.54	Peak	

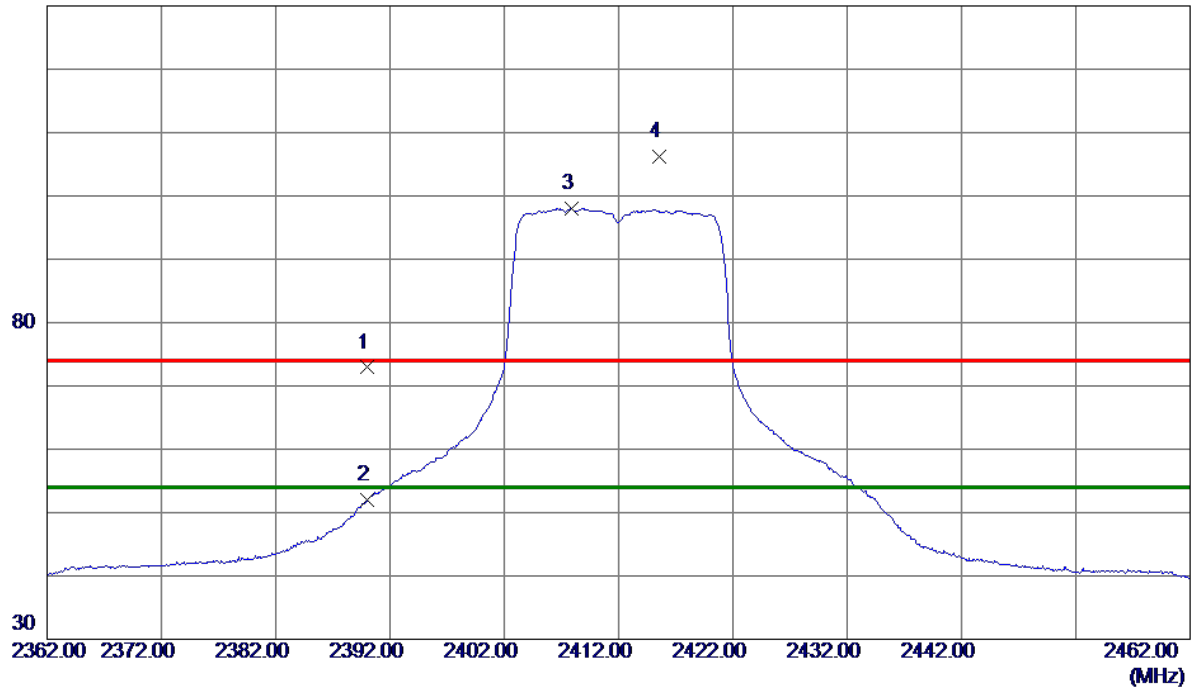
REMARKS:

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

Test Mode: TX N-20M Mode 2412 MHz

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	66.37	6.53	72.90	74.00	-1.10	Peak	
2	2390.0000	45.54	6.53	52.07	54.00	-1.93	AVG	
3 *	2407.8500	91.44	6.51	97.95	54.00	43.95	AVG	No Limit
4	2415.6000	99.71	6.50	106.21	74.00	32.21	Peak	No Limit

REMARKS:

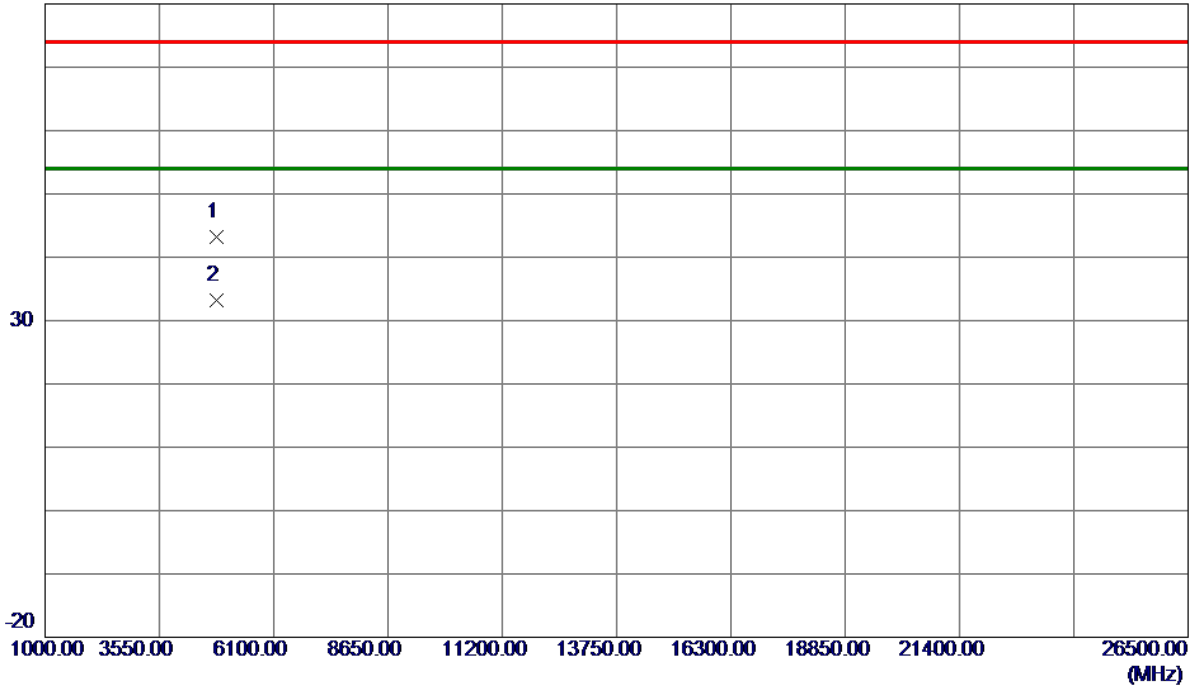
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2412 MHz
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Horizontal

80 dBuV/m



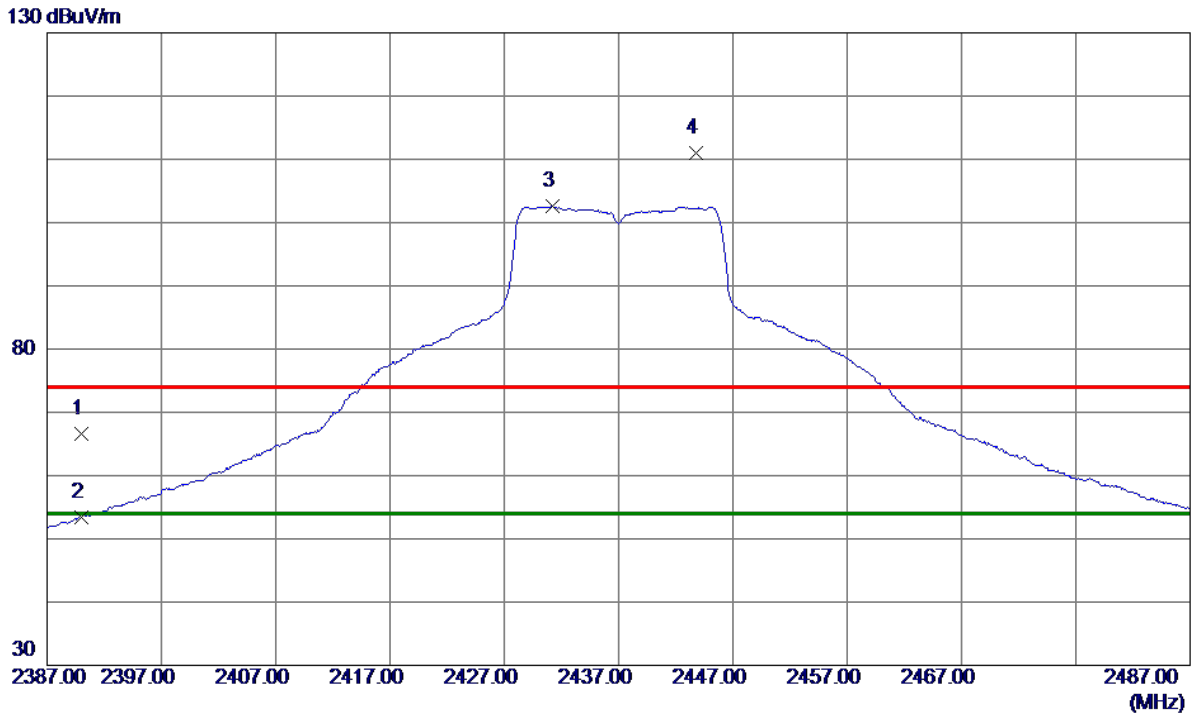
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4820.1500	39.71	3.42	43.13	74.00	-30.87	Peak	
2 *	4823.9250	29.68	3.43	33.11	54.00	-20.89	AVG	

REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

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	60.07	6.53	66.60	74.00	-7.40	Peak	
2	2390.0000	46.90	6.53	53.43	54.00	-0.57	AVG	
3 *	2431.2000	96.06	6.48	102.54	54.00	48.54	AVG	No Limit
4	2443.7500	104.55	6.47	111.02	74.00	37.02	Peak	No Limit

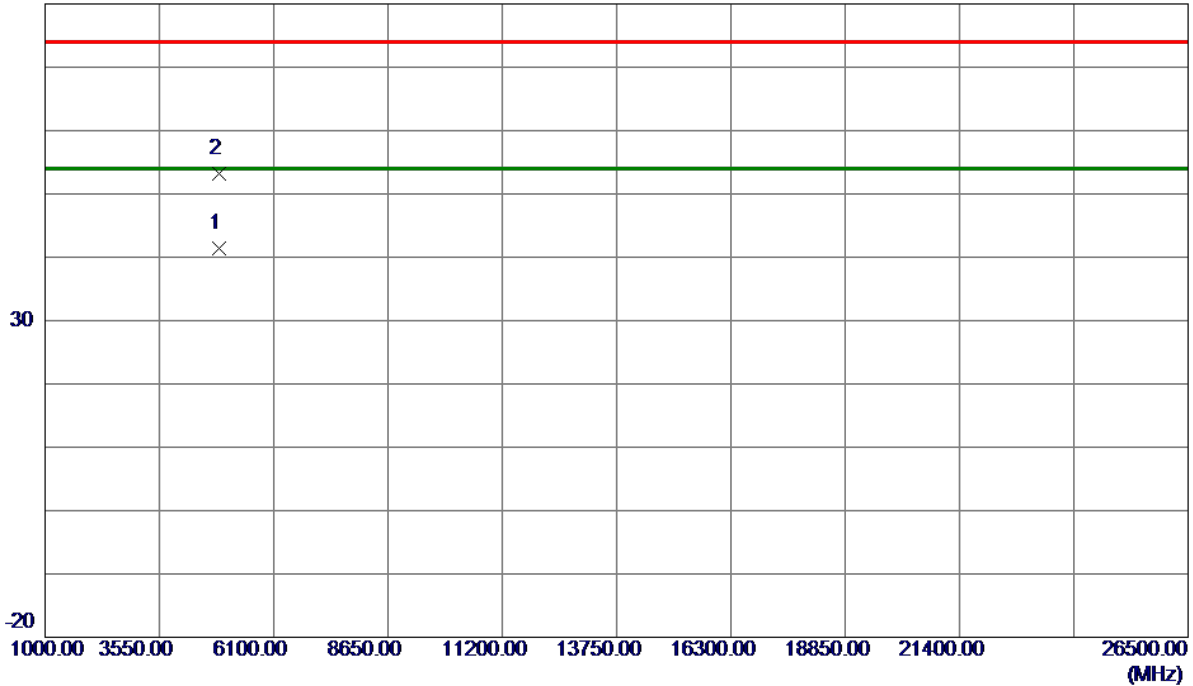
REMARKS:

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

Test Mode:	TX N-20M Mode 2437 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.0750	37.91	3.58	41.49	54.00	-12.51	AVG	
2	4874.4500	49.55	3.58	53.13	74.00	-20.87	Peak	

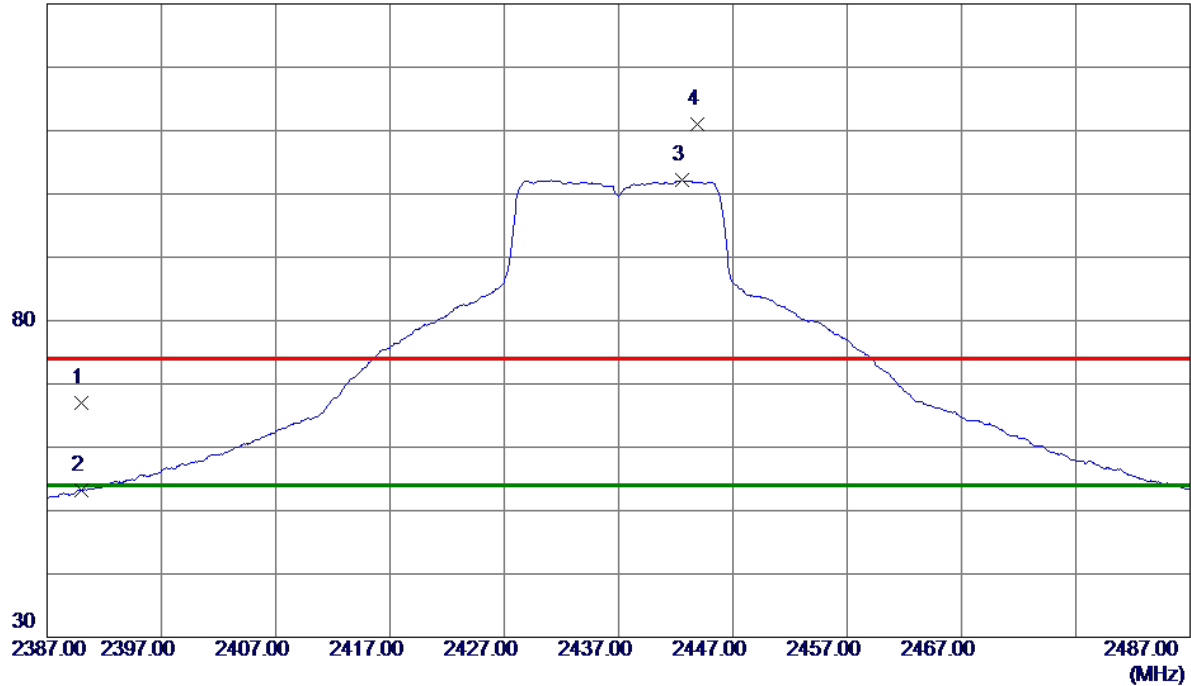
REMARKS:

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

Test Mode: TX N-20M Mode 2437 MHz

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	60.45	6.53	66.98	74.00	-7.02	Peak	
2	2390.0000	46.73	6.53	53.26	54.00	-0.74	AVG	
3 *	2442.5500	95.68	6.47	102.15	54.00	48.15	AVG	No Limit
4	2443.9000	104.48	6.47	110.95	74.00	36.95	Peak	No Limit

REMARKS:

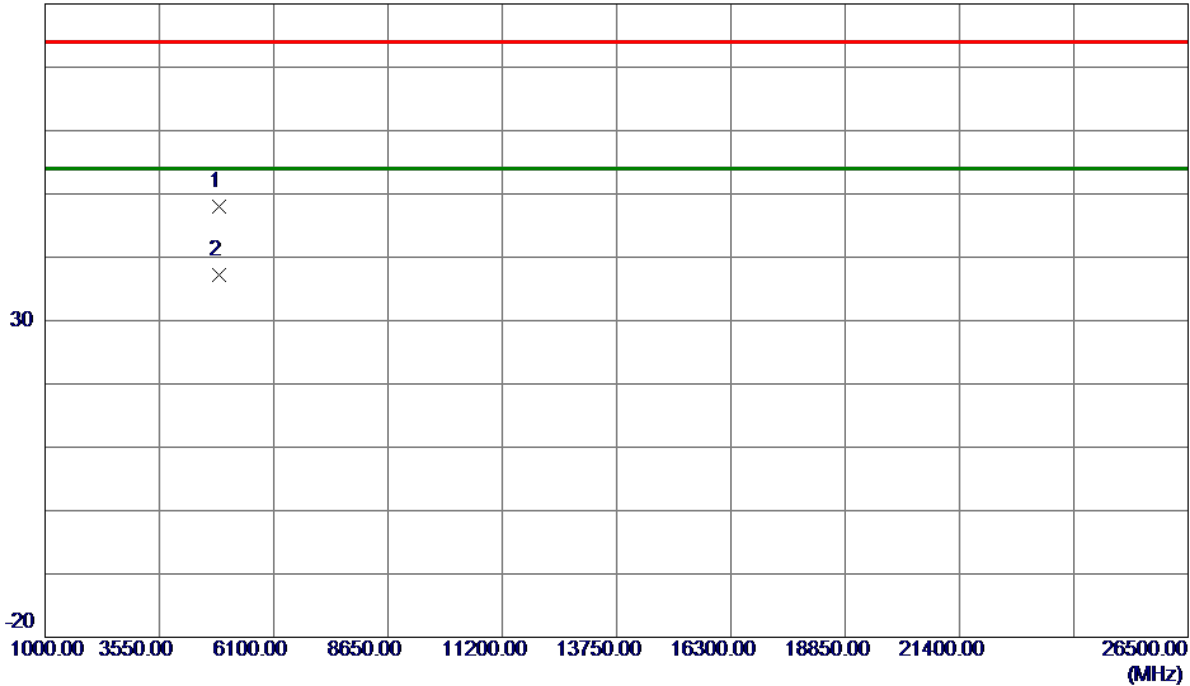
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2437 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.7250	44.38	3.57	47.95	74.00	-26.05	Peak	
2 *	4873.9000	33.67	3.58	37.25	54.00	-16.75	AVG	

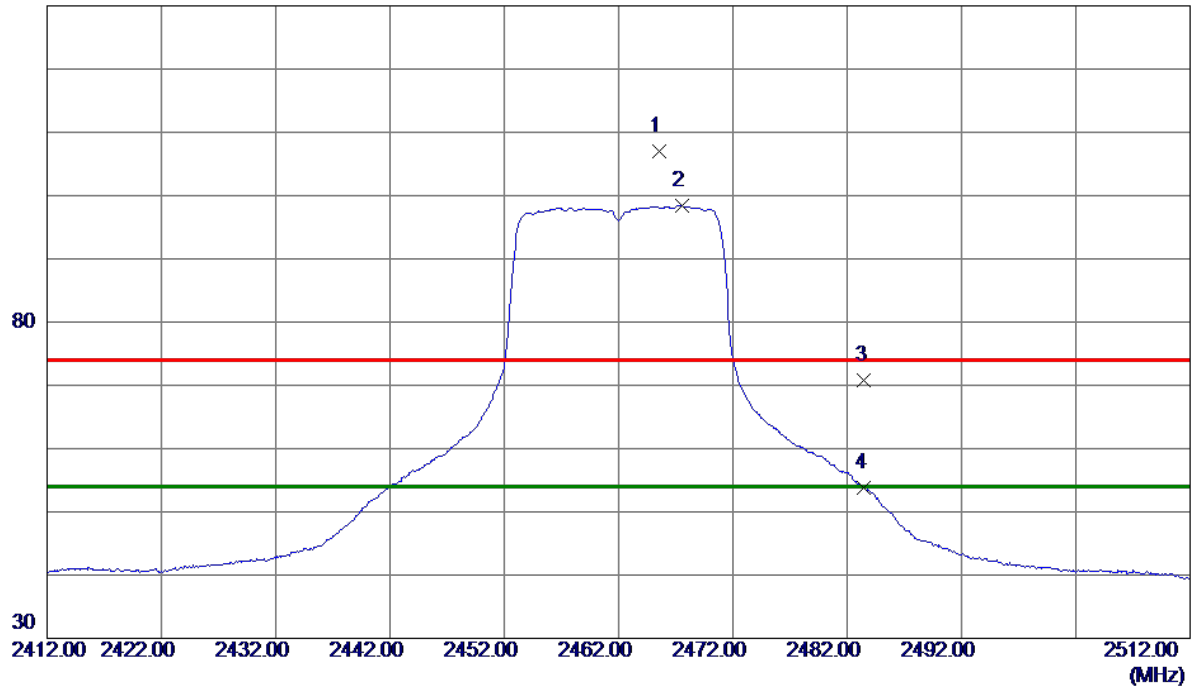
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

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	2465.6000	100.46	6.44	106.90	74.00	32.90	Peak	No Limit
2 *	2467.5500	91.97	6.44	98.41	54.00	44.41	AVG	No Limit
3	2483.5000	64.34	6.42	70.76	74.00	-3.24	Peak	
4	2483.5000	47.41	6.42	53.83	54.00	-0.17	AVG	

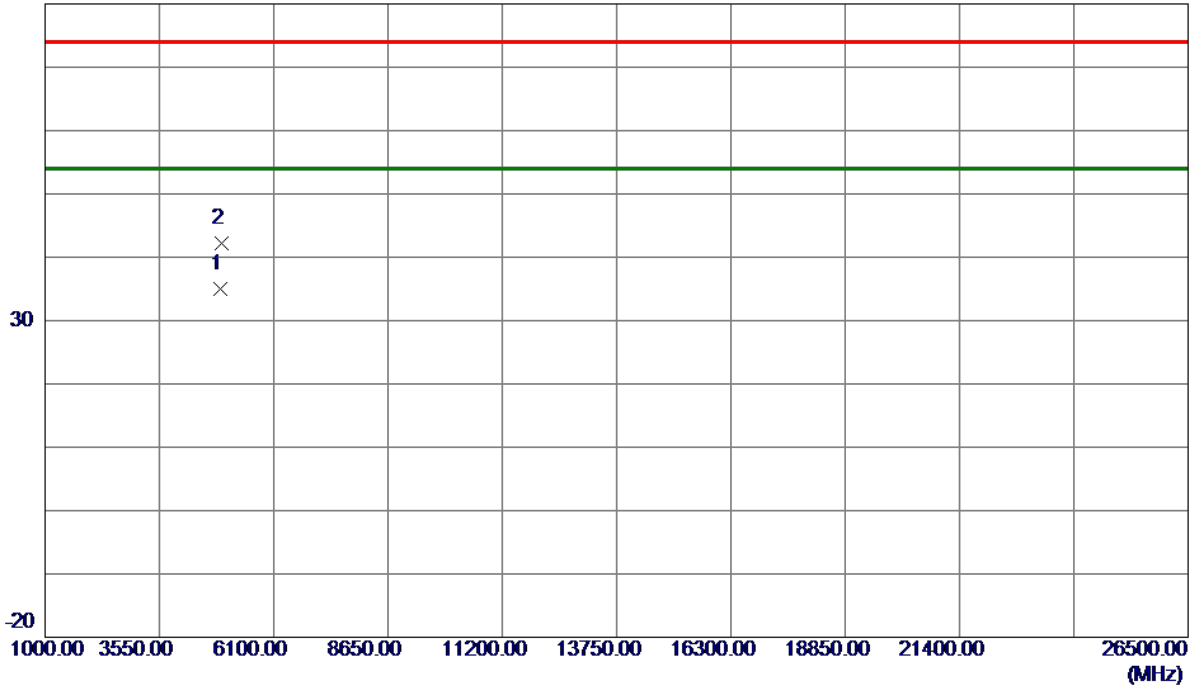
REMARKS:

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

Test Mode:	TX N-20M Mode 2462 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0500	31.27	3.73	35.00	54.00	-19.00	AVG	
2	4929.2500	38.40	3.75	42.15	74.00	-31.85	Peak	

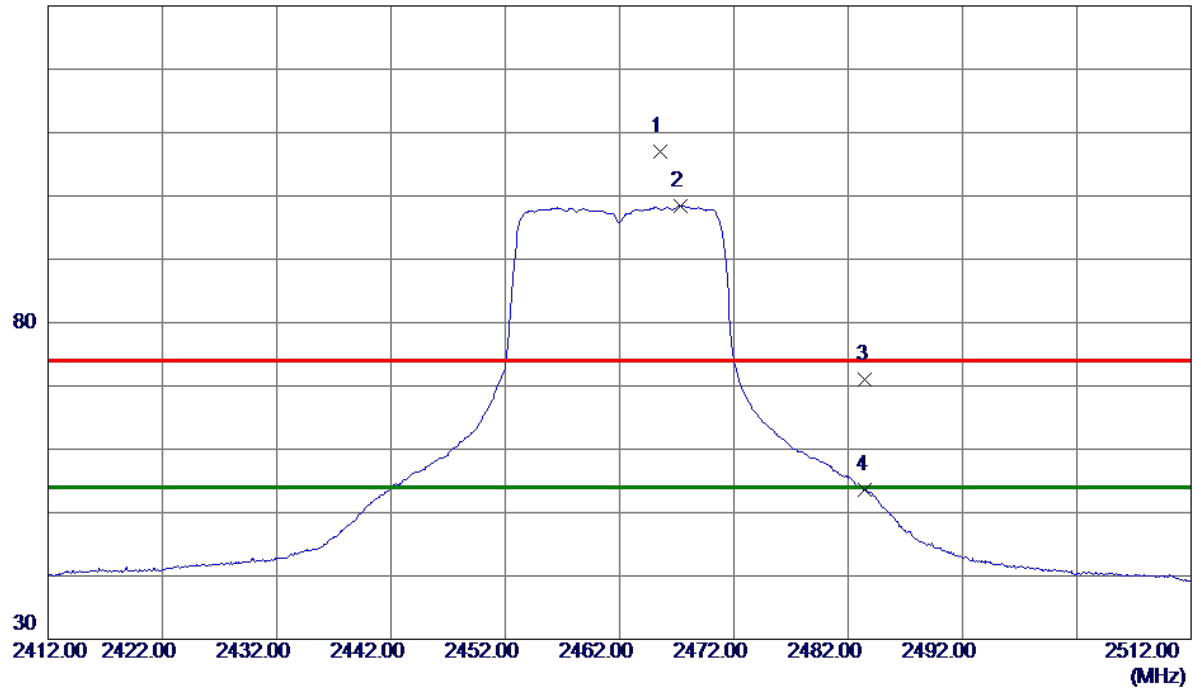
REMARKS:

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

Test Mode: TX N-20M Mode 2462 MHz

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	2465.5500	100.46	6.44	106.90	74.00	32.90	Peak	No Limit
2 *	2467.3000	91.98	6.44	98.42	54.00	44.42	AVG	No Limit
3	2483.5000	64.67	6.42	71.09	74.00	-2.91	Peak	
4	2483.5000	47.11	6.42	53.53	54.00	-0.47	AVG	

REMARKS:

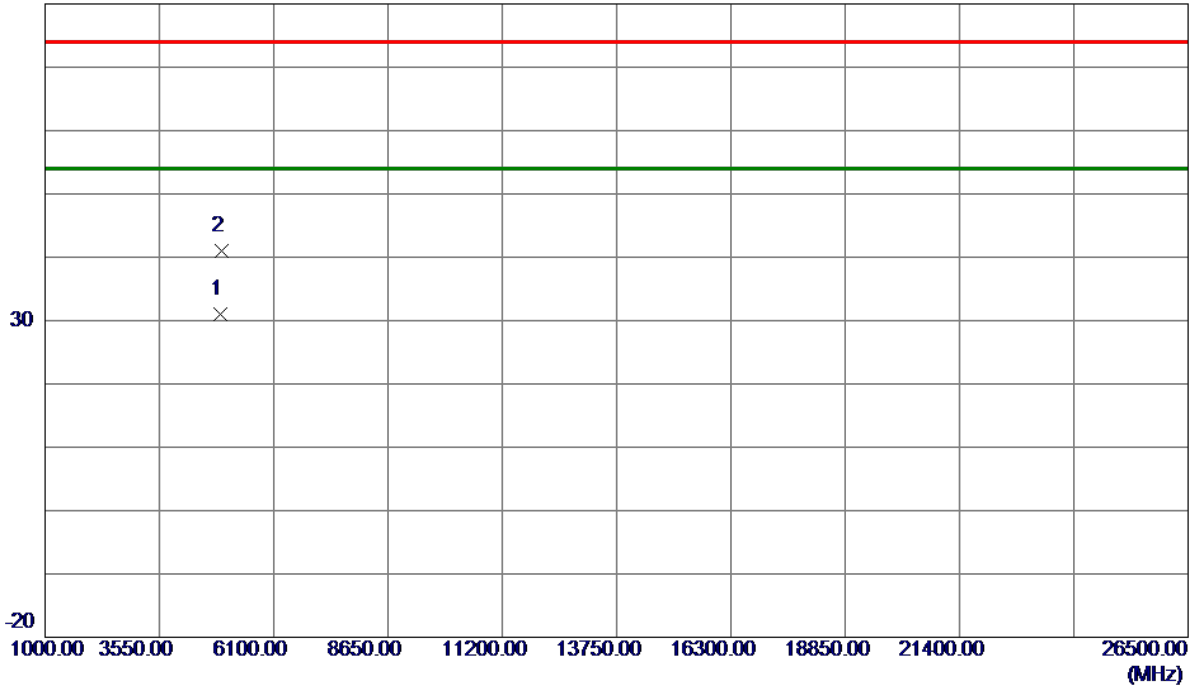
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-20M Mode 2462 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.0000	27.25	3.73	30.98	54.00	-23.02	AVG	
2	4929.3750	37.23	3.75	40.98	74.00	-33.02	Peak	

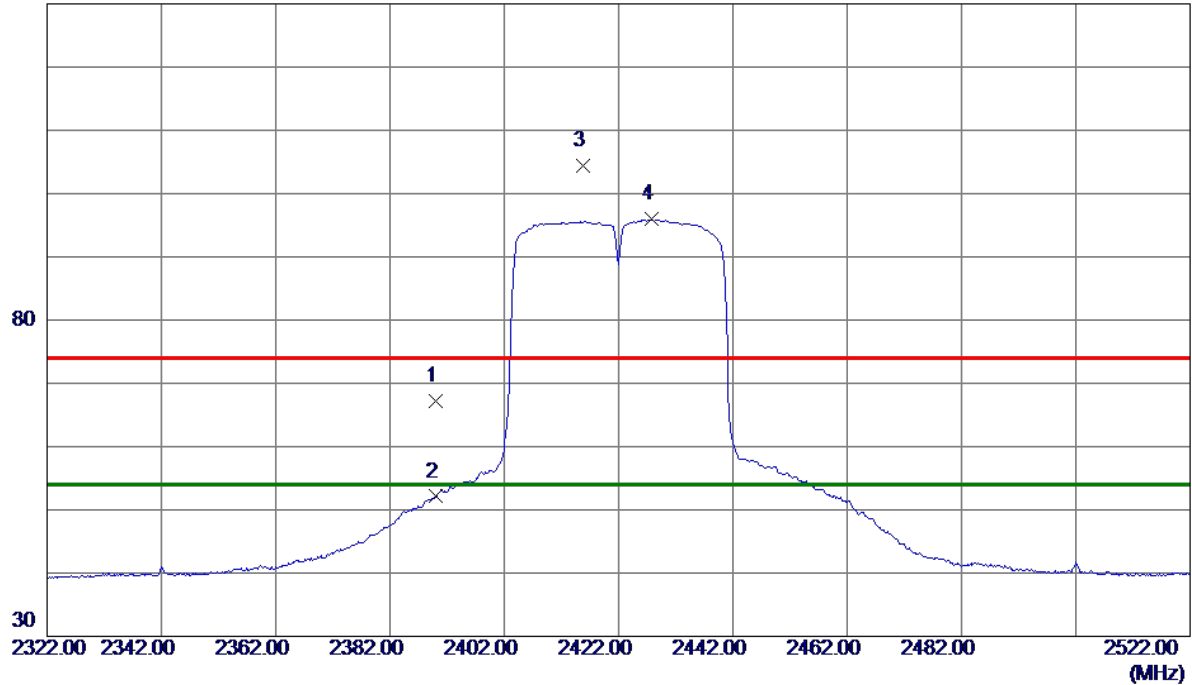
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

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	60.75	6.53	67.28	74.00	-6.72	Peak	
2	2390.0000	45.57	6.53	52.10	54.00	-1.90	AVG	
3	2415.7000	97.91	6.50	104.41	74.00	30.41	Peak	No Limit
4 *	2427.8000	89.41	6.49	95.90	54.00	41.90	AVG	No Limit

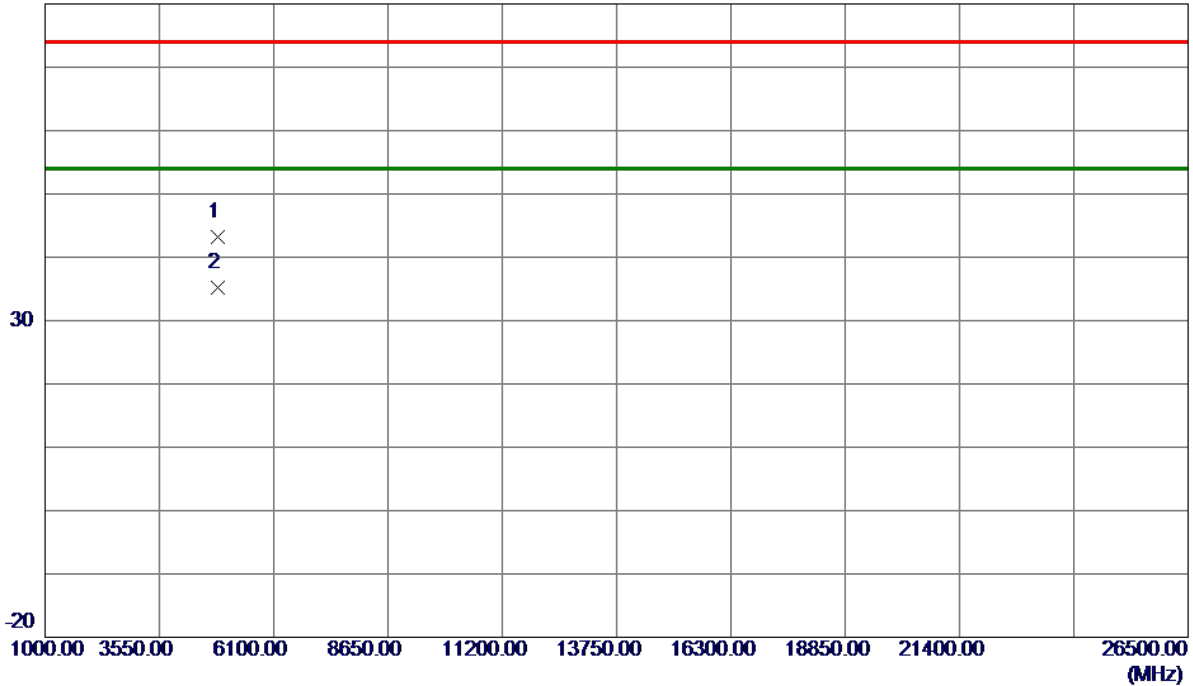
REMARKS:

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

Test Mode:	TX N-40M Mode 2422MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.0500	39.74	3.49	43.23	74.00	-30.77	Peak	
2 *	4844.1000	31.64	3.49	35.13	54.00	-18.87	AVG	

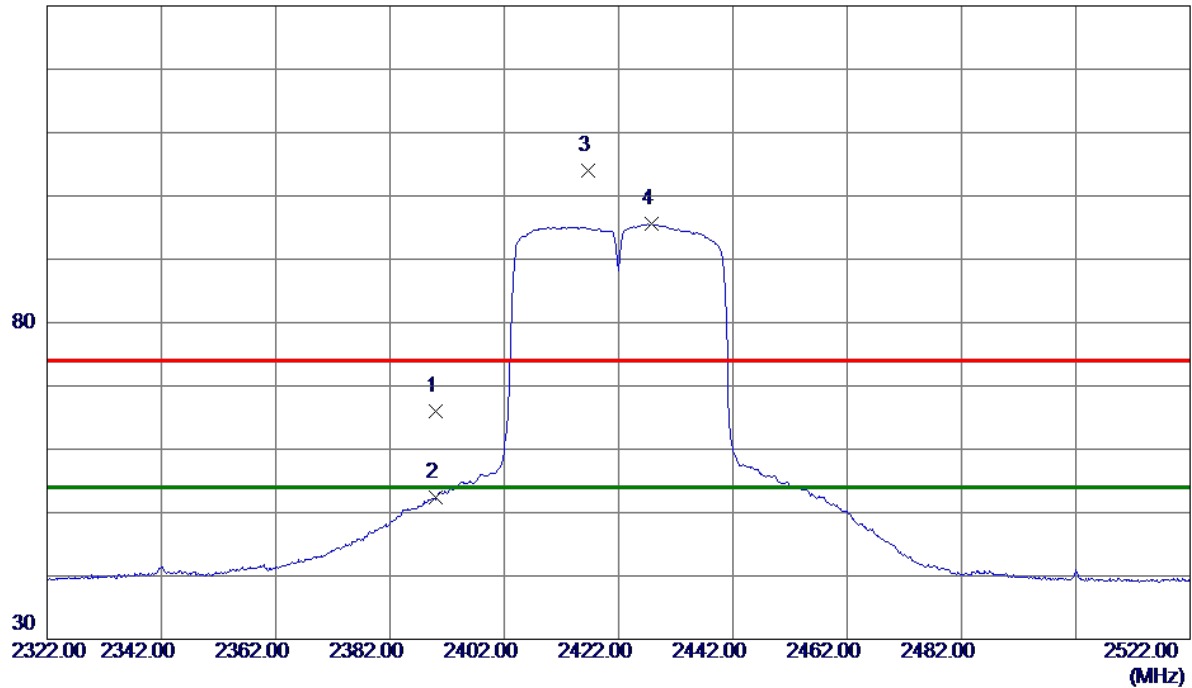
REMARKS:

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

Test Mode: TX N-40M Mode 2422MHz

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	59.44	6.53	65.97	74.00	-8.03	Peak	
2	2390.0000	45.89	6.53	52.42	54.00	-1.58	AVG	
3	2416.7000	97.57	6.50	104.07	74.00	30.07	Peak	No Limit
4 *	2427.8000	89.08	6.49	95.57	54.00	41.57	AVG	No Limit

REMARKS:

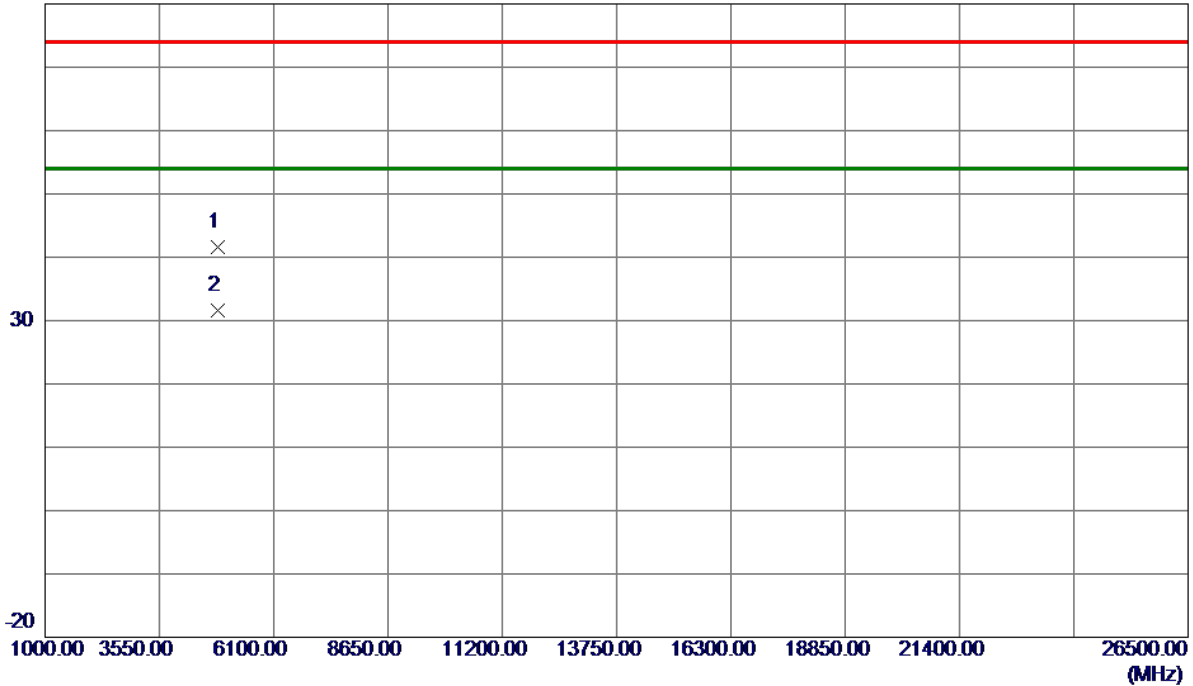
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-40M Mode 2422MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.2000	38.14	3.49	41.63	74.00	-32.37	Peak	
2 *	4844.2000	28.10	3.49	31.59	54.00	-22.41	AVG	

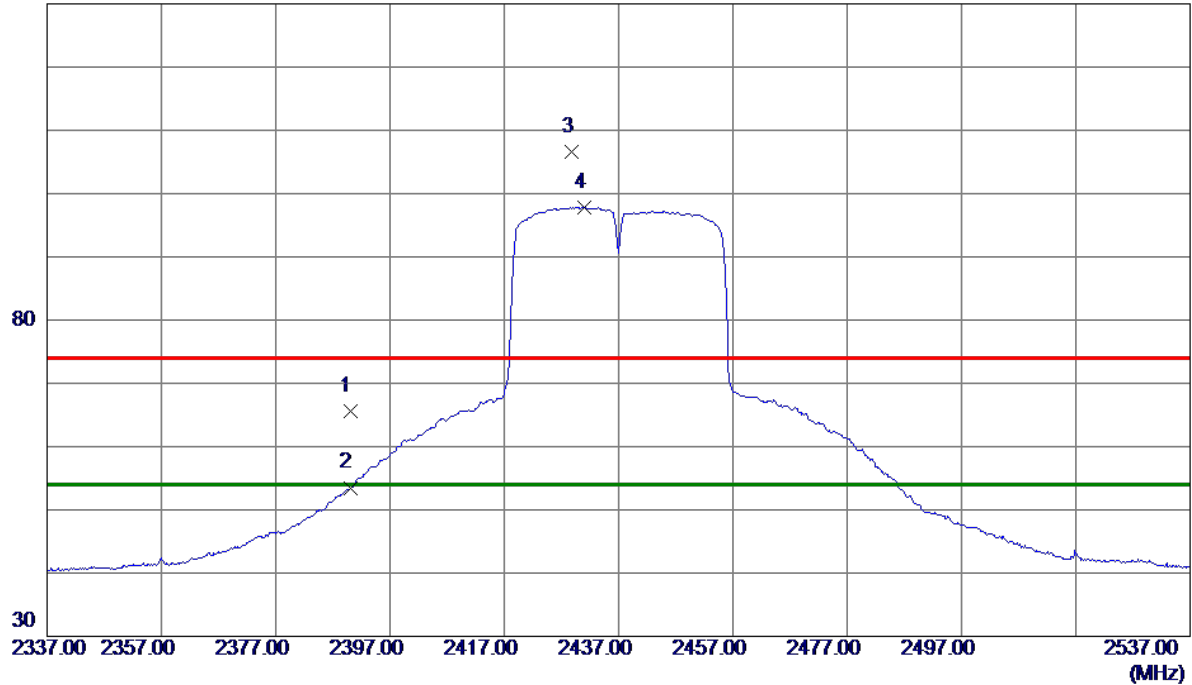
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

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	59.01	6.53	65.54	74.00	-8.46	Peak	
2	2390.0000	46.97	6.53	53.50	54.00	-0.50	AVG	
3	2428.7000	100.11	6.49	106.60	74.00	32.60	Peak	No Limit
4 *	2431.0000	91.34	6.48	97.82	54.00	43.82	AVG	No Limit

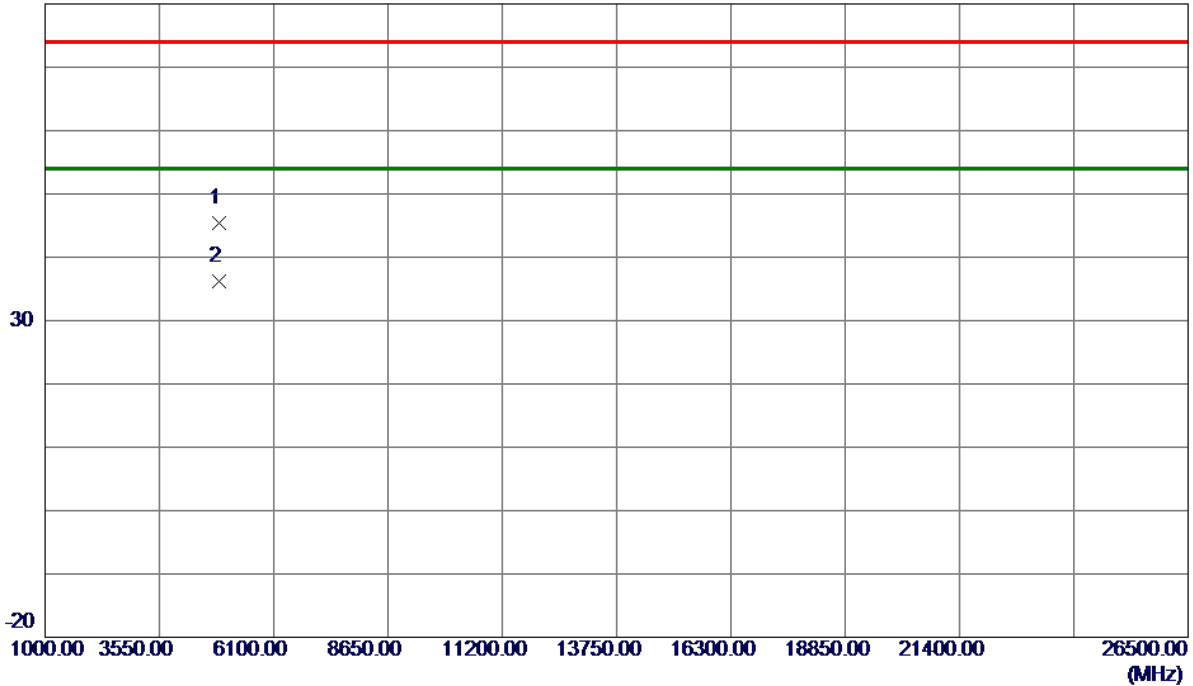
REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8000	41.77	3.58	45.35	74.00	-28.65	Peak	
2 *	4873.9000	32.57	3.58	36.15	54.00	-17.85	AVG	

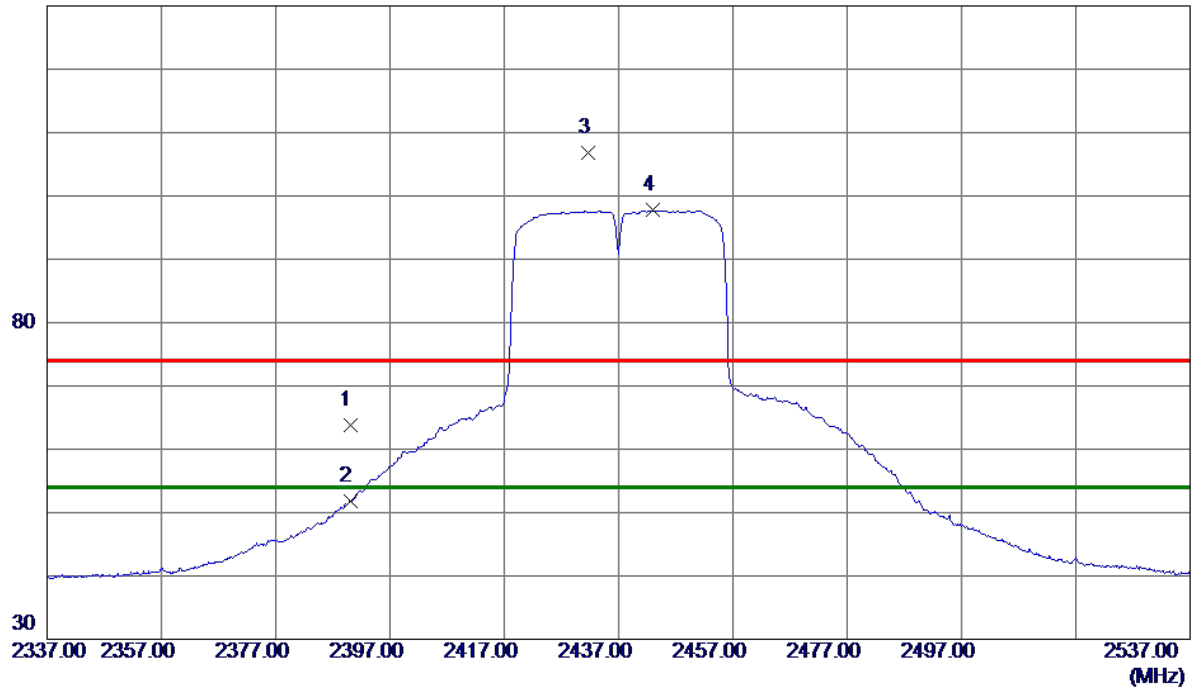
REMARKS:

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

Test Mode: TX N-40M Mode 2437 MHz

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	57.18	6.53	63.71	74.00	-10.29	Peak	
2	2390.0000	45.24	6.53	51.77	54.00	-2.23	AVG	
3	2431.7000	100.23	6.48	106.71	74.00	32.71	Peak	No Limit
4 *	2442.9000	91.25	6.47	97.72	54.00	43.72	AVG	No Limit

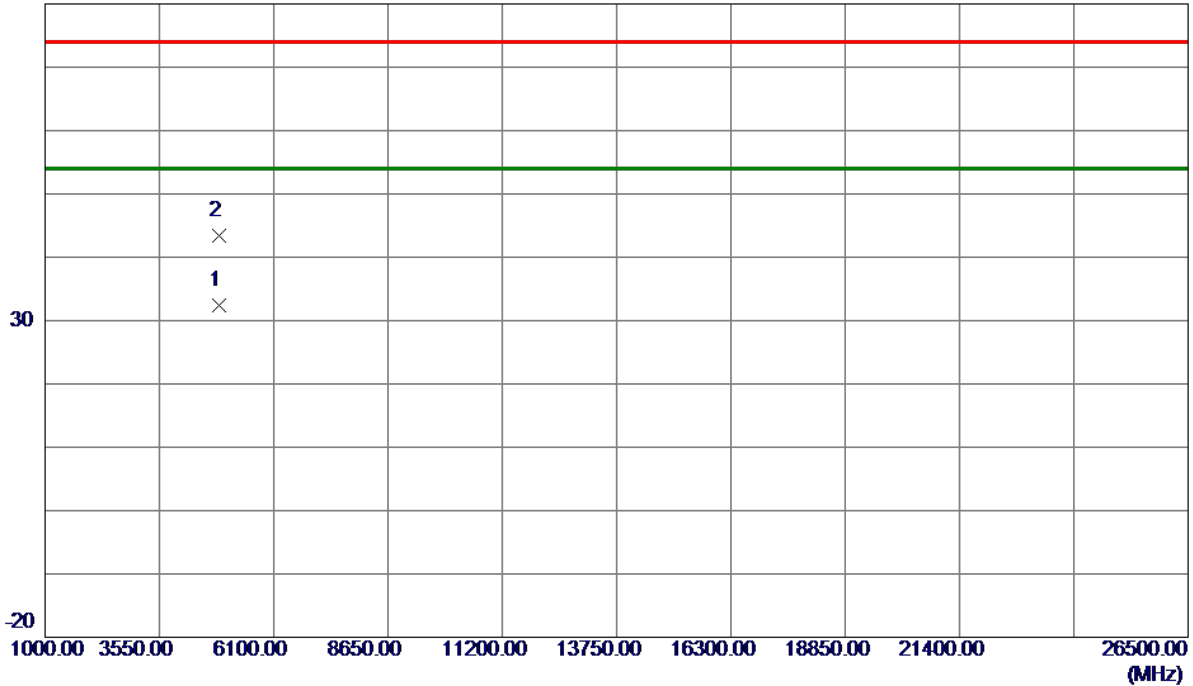
REMARKS:

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

Test Mode:	TX N-40M Mode 2437 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.1000	28.84	3.58	32.42	54.00	-21.58	AVG	
2	4874.2000	39.89	3.58	43.47	74.00	-30.53	Peak	

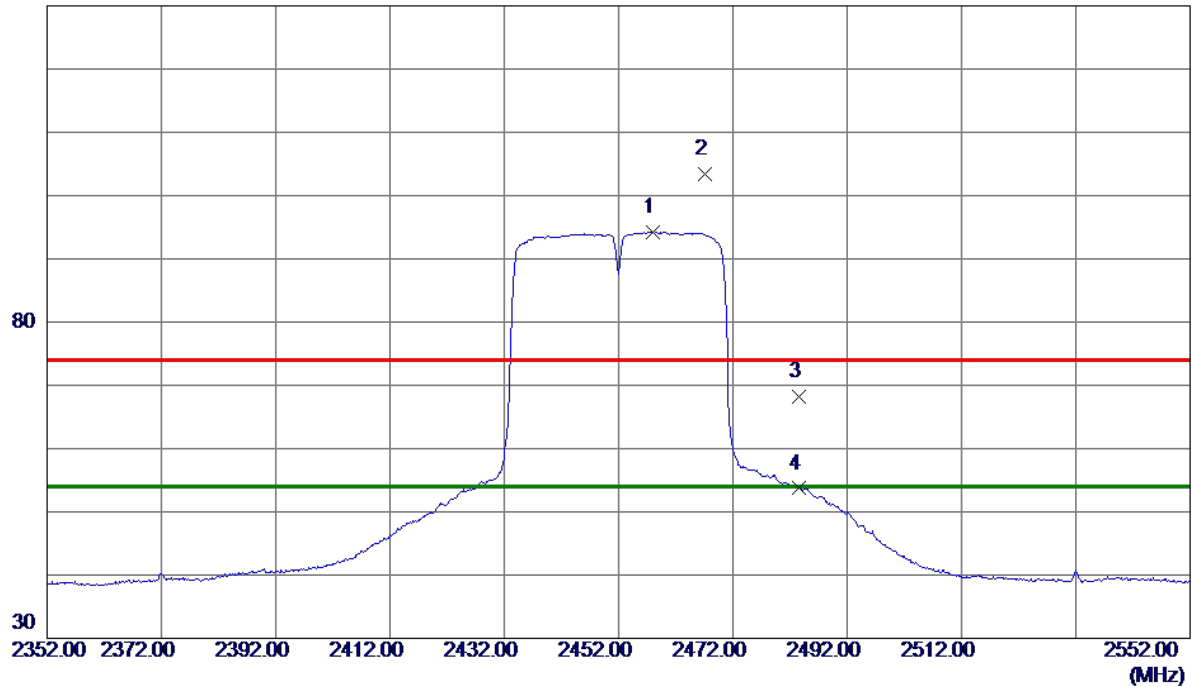
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

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 *	2457.9000	87.78	6.45	94.23	54.00	40.23	AVG	No Limit
2	2467.1000	96.88	6.44	103.32	74.00	29.32	Peak	No Limit
3	2483.5000	61.84	6.42	68.26	74.00	-5.74	Peak	
4	2483.5000	47.28	6.42	53.70	54.00	-0.30	AVG	

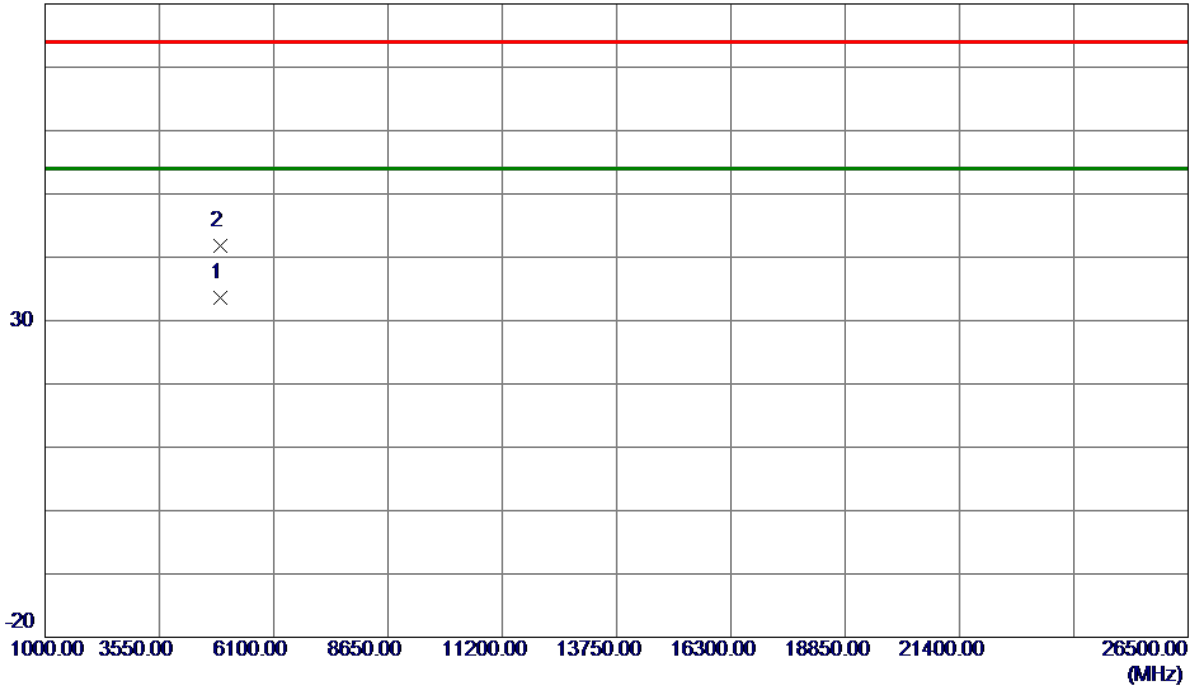
REMARKS:

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

Test Mode:	TX N-40M Mode 2452 MHz
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Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4903.8500	29.91	3.67	33.58	54.00	-20.42	AVG	
2	4904.7000	38.12	3.67	41.79	74.00	-32.21	Peak	

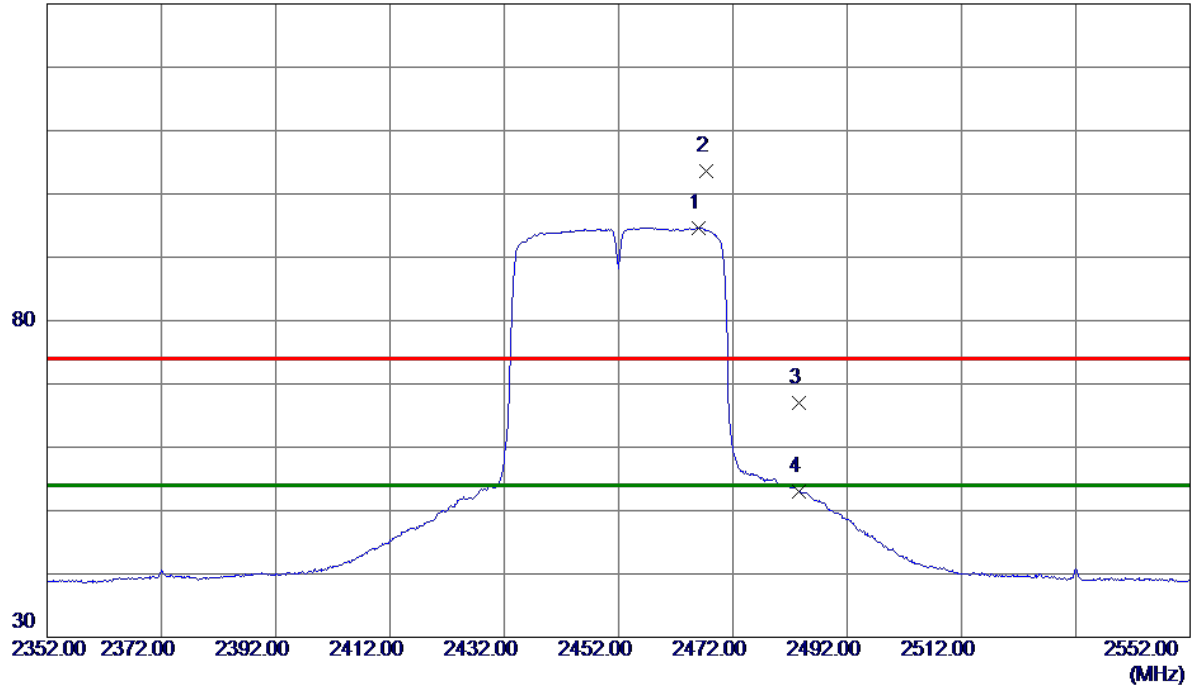
REMARKS:

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

Test Mode: TX N-40M Mode 2452 MHz

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 *	2466.1000	88.22	6.44	94.66	54.00	40.66	AVG	No Limit
2	2467.3000	97.25	6.44	103.69	74.00	29.69	Peak	No Limit
3	2483.5000	60.59	6.42	67.01	74.00	-6.99	Peak	
4	2483.5000	46.60	6.42	53.02	54.00	-0.98	AVG	

REMARKS:

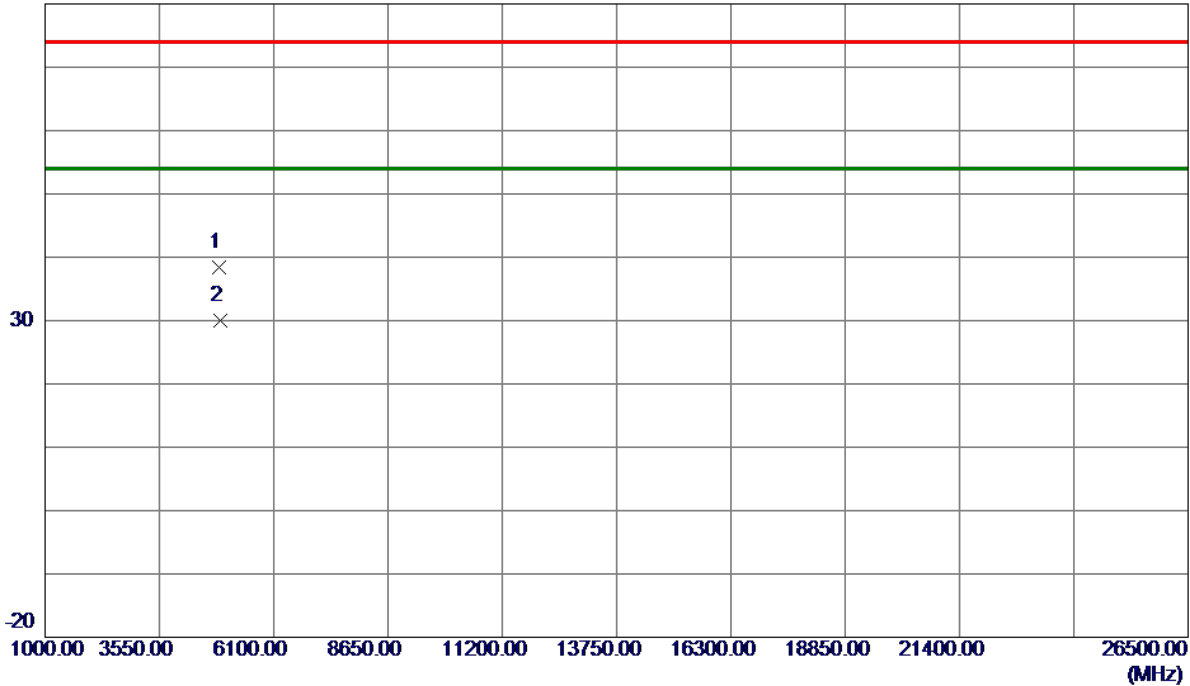
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode:	TX N-40M Mode 2452 MHz
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Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4890.6500	34.81	3.63	38.44	74.00	-35.56	Peak	
2 *	4904.0000	26.40	3.67	30.07	54.00	-23.93	AVG	

REMARKS:

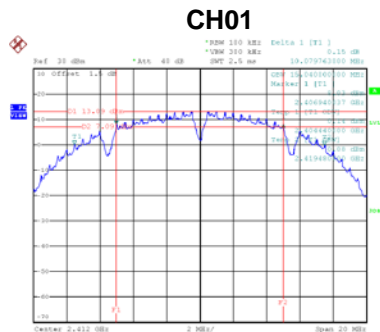
(1) Measurement Value = Reading Level + Correct Factor.

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

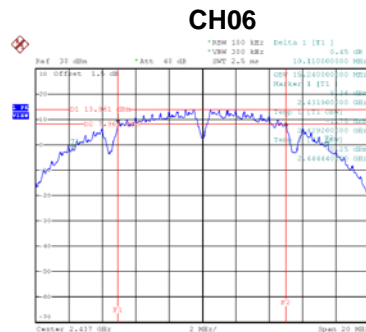
APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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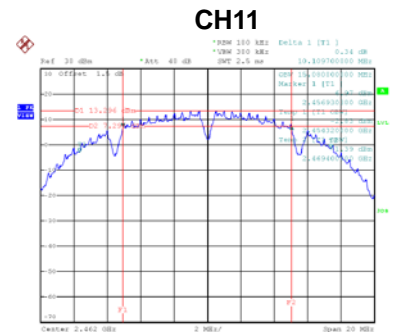
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	10.08	500	Complies
06	2437	10.11	500	Complies
11	2462	10.11	500	Complies



Date: 17 JUN 2019 11:28:29



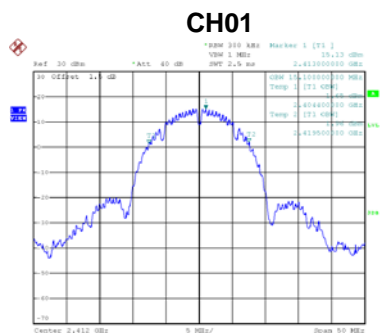
Date: 17 JUN 2019 11:29:54



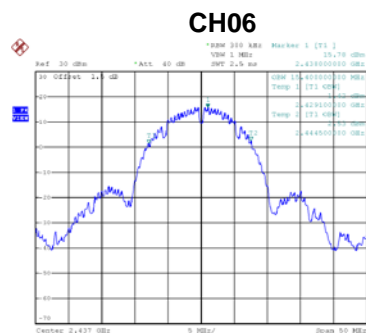
Date: 17 JUN 2019 11:31:19

Test Mode	TX B Mode
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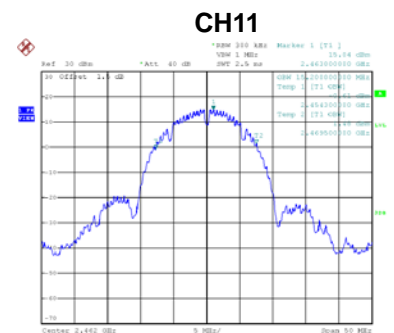
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	15.10	Complies
06	2437	15.40	Complies
11	2462	15.20	Complies



Date: 17 JUN 2019 11:10:22



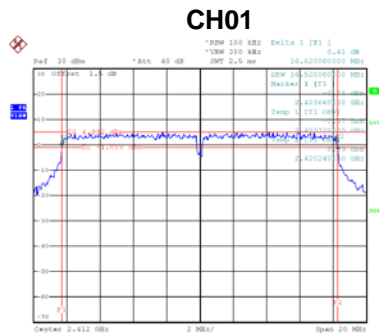
Date: 17 JUN 2019 11:11:14



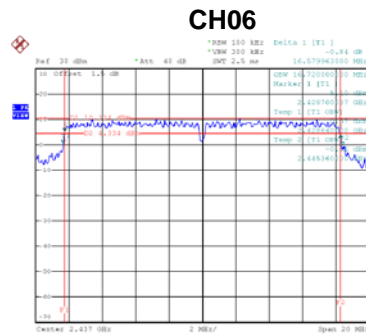
Date: 17 JUN 2019 11:12:09

Test Mode	TX G Mode
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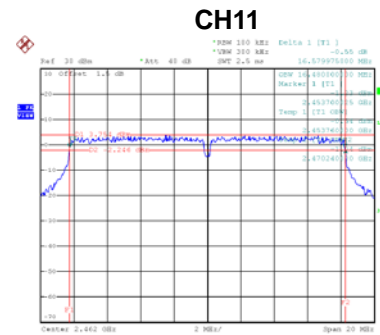
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
01	2412	16.62	500	Complies
06	2437	16.58	500	Complies
11	2462	16.58	500	Complies



Date: 17 JUN 2019 11:13:24



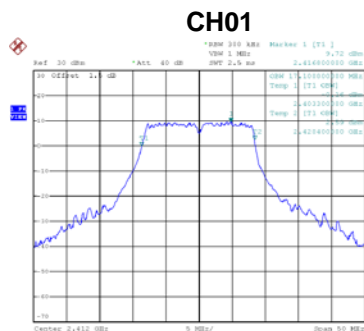
Date: 17 JUN 2019 11:13:40



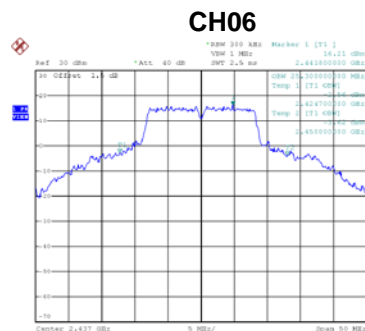
Date: 17 JUN 2019 11:13:16

Test Mode	TX G Mode
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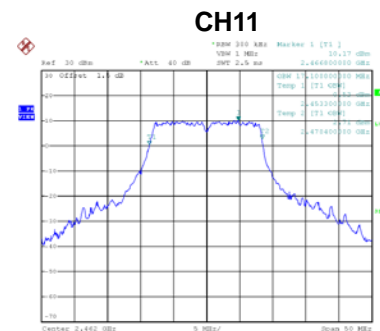
Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
01	2412	17.10	Complies
06	2437	25.30	Complies
11	2462	17.10	Complies



Date: 17 JUN 2019 11:16:12



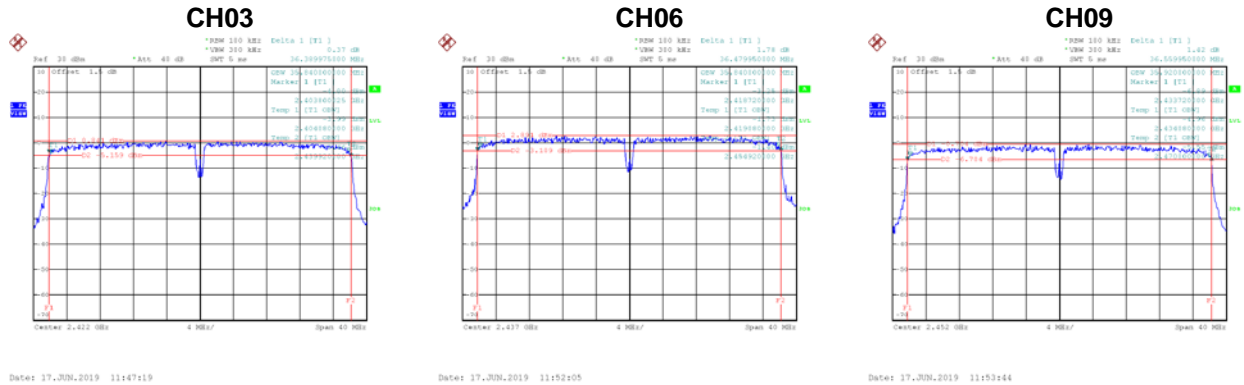
Date: 17 JUN 2019 11:15:13



Date: 17 JUN 2019 11:14:31

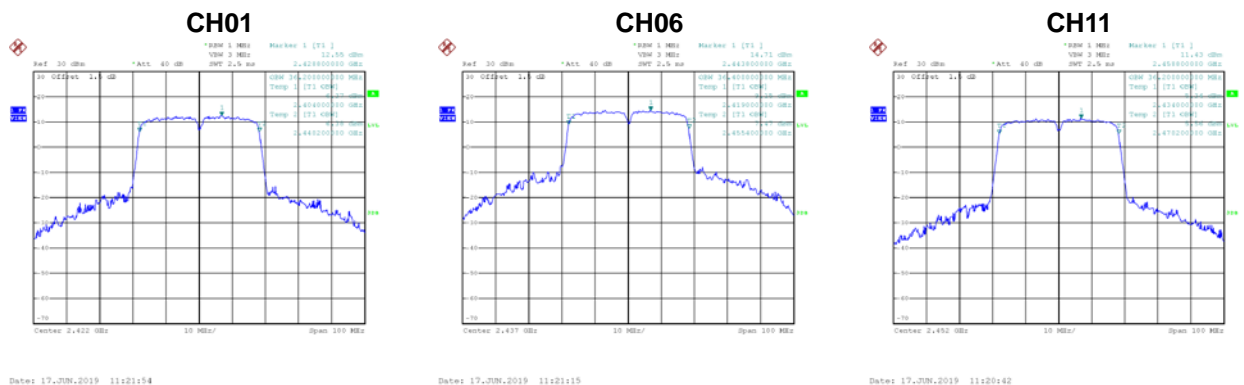
Test Mode	TX N-40M Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
03	2422	36.39	500	Complies
06	2437	36.48	500	Complies
09	2452	36.56	500	Complies



Test Mode	TX N-40M Mode
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Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Result
03	2422	36.20	Complies
06	2437	36.40	Complies
09	2452	36.20	Complies



APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.16	0.4130	30.00	1.0000	Complies
06	2437	26.79	0.4775	30.00	1.0000	Complies
11	2462	26.14	0.4111	30.00	1.0000	Complies

Test Mode	TX G Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.48	0.5598	30.00	1.0000	Complies
06	2437	28.04	0.6368	30.00	1.0000	Complies
11	2462	27.03	0.5047	30.00	1.0000	Complies

Test Mode	TX N-20M Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	27.68	0.5861	30.00	1.0000	Complies
06	2437	28.04	0.6368	30.00	1.0000	Complies
11	2462	27.45	0.5559	30.00	1.0000	Complies

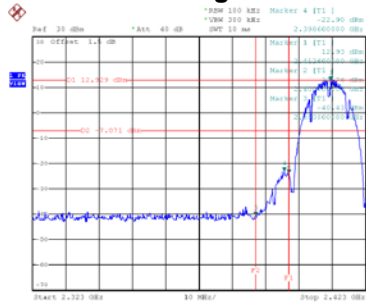
Test Mode	TX N-40M Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	24.47	0.2799	30.00	1.0000	Complies
06	2437	27.96	0.6252	30.00	1.0000	Complies
09	2452	27.03	0.5047	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

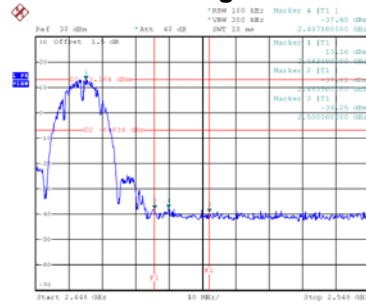
Test Mode TX B Mode

Bandedge-CH01



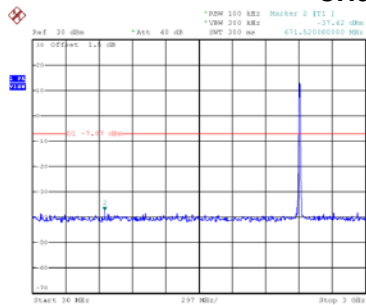
Date: 17 JUN 2019 11:28:36

Bandedge-CH11

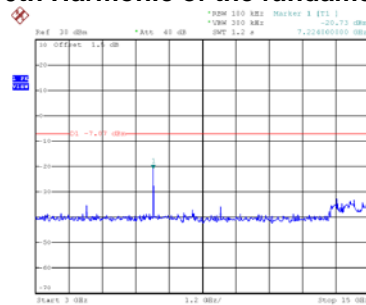


Date: 17 JUN 2019 11:31:27

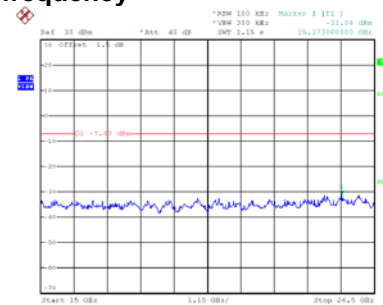
CH01 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:28:49

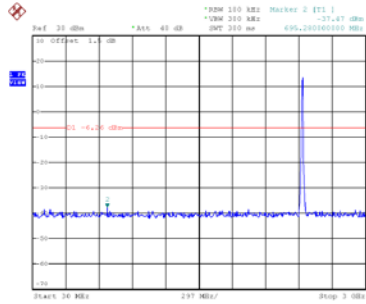


Date: 17 JUN 2019 11:28:56

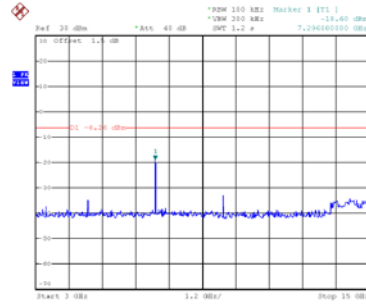


Date: 17 JUN 2019 11:29:02

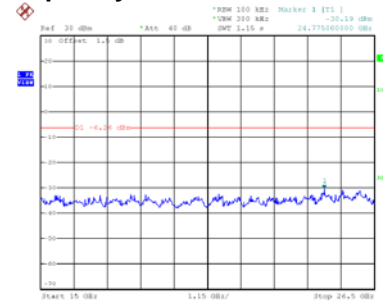
CH06 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:30:14

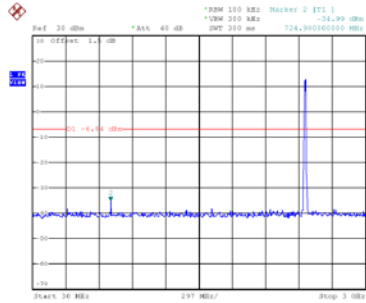


Date: 17 JUN 2019 11:30:21

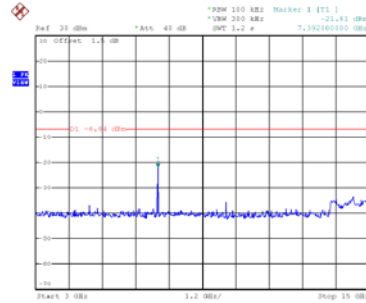


Date: 17 JUN 2019 11:30:28

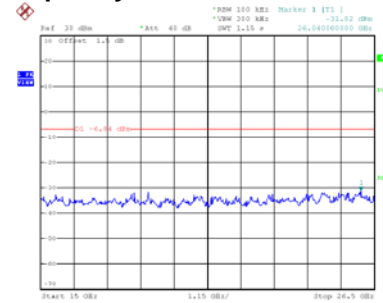
CH11 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:31:39



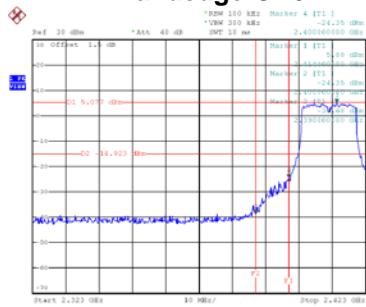
Date: 17 JUN 2019 11:31:46



Date: 17 JUN 2019 11:31:53

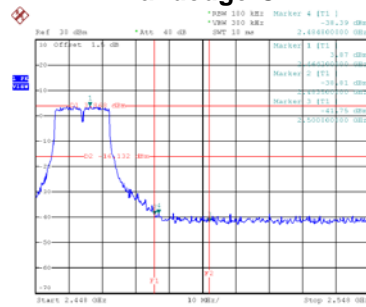
Test Mode TX G Mode

Bandedge-CH01



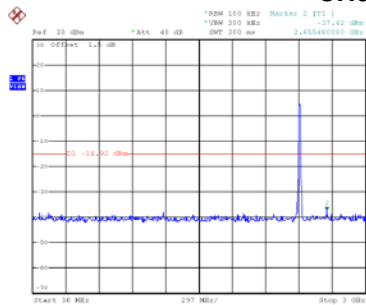
Date: 17 JUN 2019 11:32:51

Bandedge-CH11

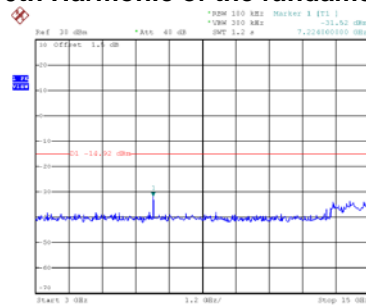


Date: 17 JUN 2019 11:32:52

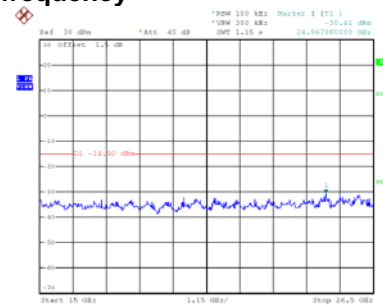
CH01 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:33:04

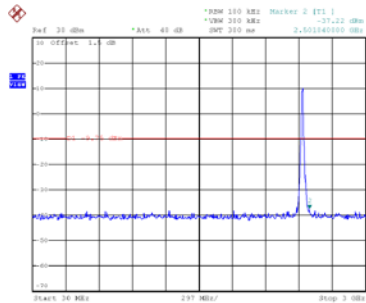


Date: 17 JUN 2019 11:33:11

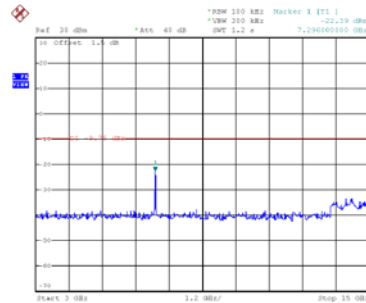


Date: 17 JUN 2019 11:33:17

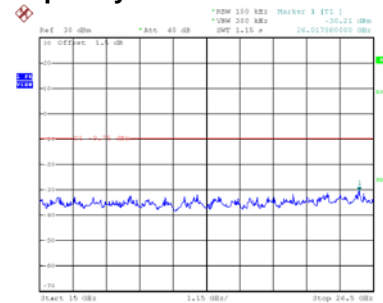
CH06 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:34:21

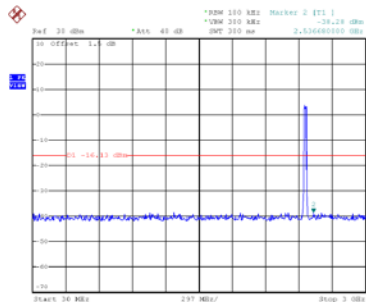


Date: 17 JUN 2019 11:34:28

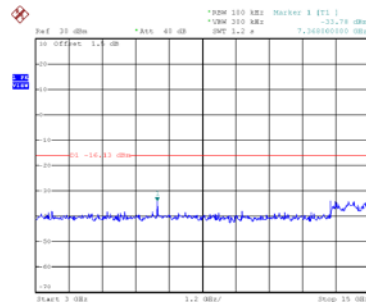


Date: 17 JUN 2019 11:34:35

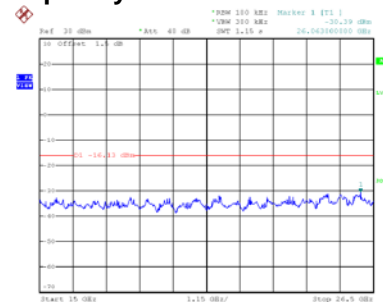
CH11 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:35:16



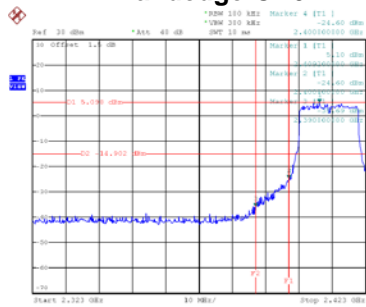
Date: 17 JUN 2019 11:35:43



Date: 17 JUN 2019 11:35:50

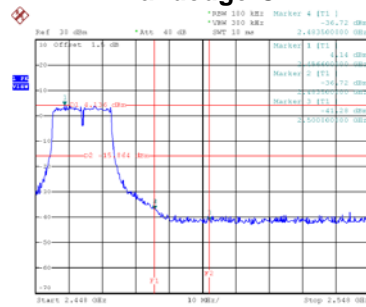
Test Mode TX N-20M Mode

Bandedge-CH01



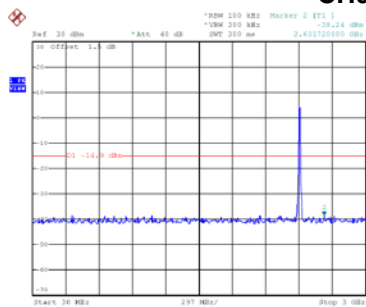
Date: 17 JUN 2019 11:39:29

Bandedge-CH11

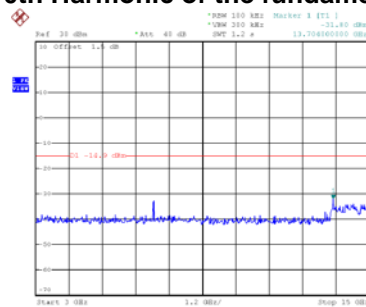


Date: 17 JUN 2019 11:45:26

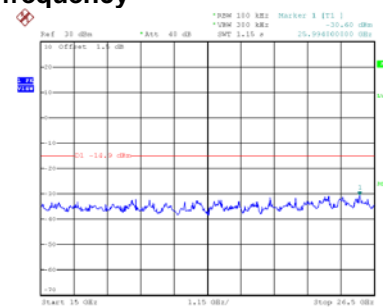
CH01 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:39:42

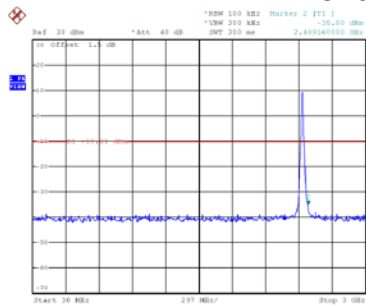


Date: 17 JUN 2019 11:39:49

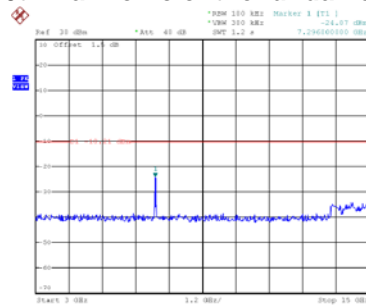


Date: 17 JUN 2019 11:39:55

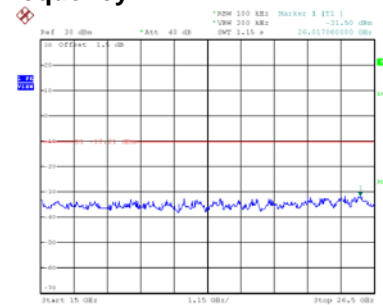
CH06 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:41:32

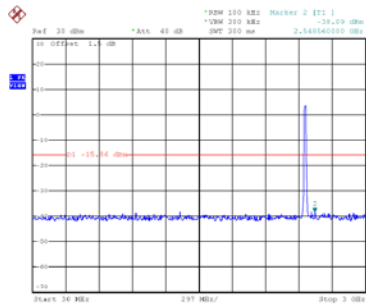


Date: 17 JUN 2019 11:41:39

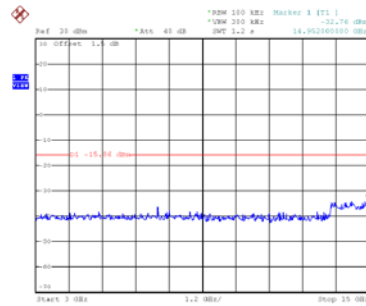


Date: 17 JUN 2019 11:41:45

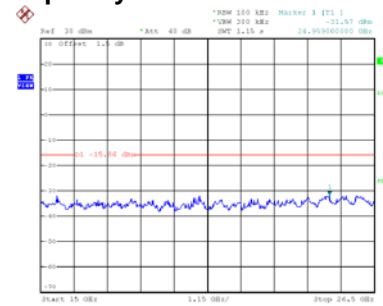
CH11 – 10th Harmonic of the fundamental frequency



Date: 17 JUN 2019 11:45:38



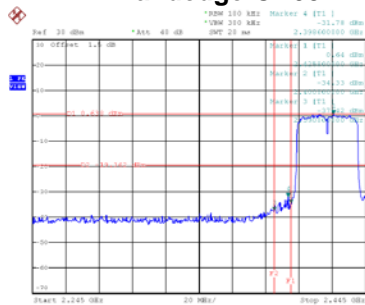
Date: 17 JUN 2019 11:45:45



Date: 17 JUN 2019 11:45:52

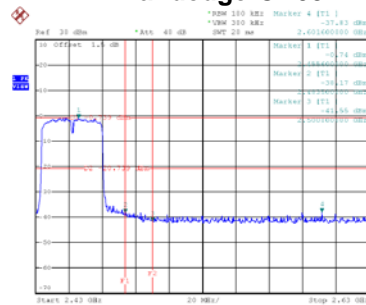
Test Mode TX N-40M Mode

Bandedge-CH03



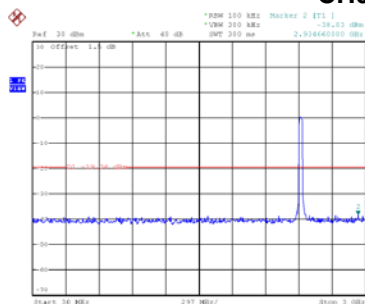
Date: 17.JUN.2019 11:47:27

Bandedge-CH09

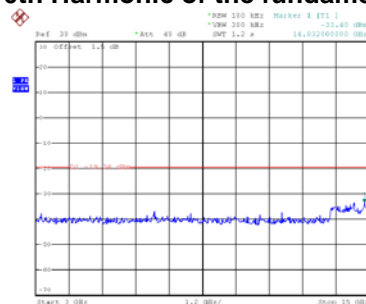


Date: 17.JUN.2019 11:53:52

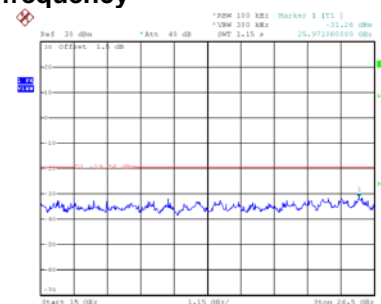
CH03 – 10th Harmonic of the fundamental frequency



Date: 17.JUN.2019 11:47:39

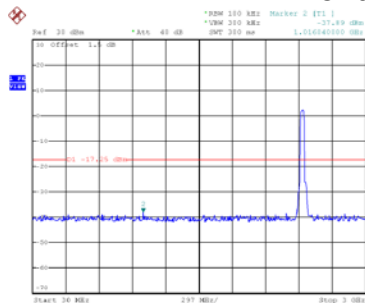


Date: 17.JUN.2019 11:47:56

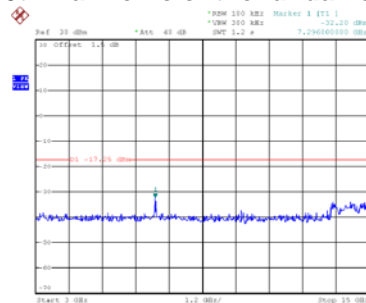


Date: 17.JUN.2019 11:47:53

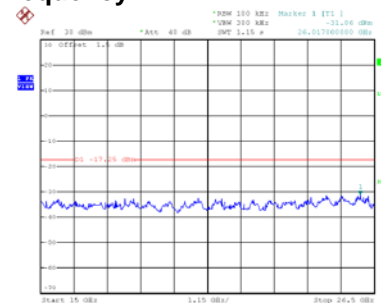
CH06 – 10th Harmonic of the fundamental frequency



Date: 17.JUN.2019 11:52:27

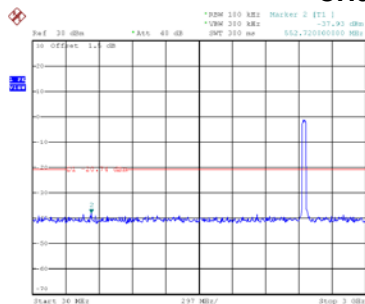


Date: 17.JUN.2019 11:52:35

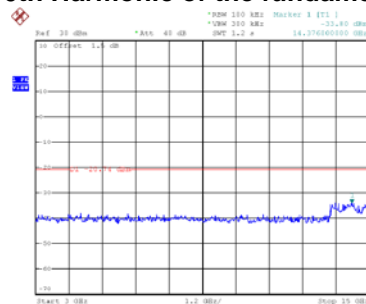


Date: 17.JUN.2019 11:52:42

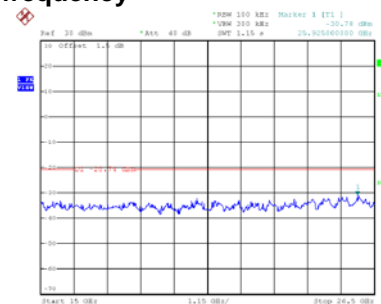
CH09 – 10th Harmonic of the fundamental frequency



Date: 17.JUN.2019 11:54:05



Date: 17.JUN.2019 11:54:13

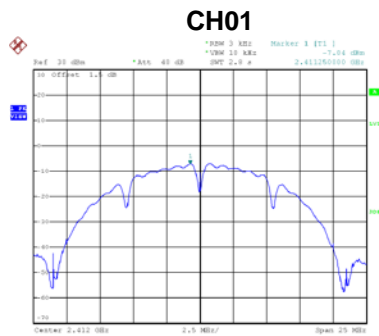


Date: 17.JUN.2019 11:54:21

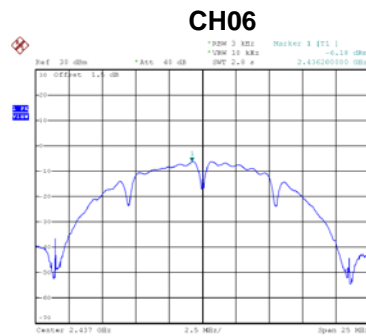
APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode
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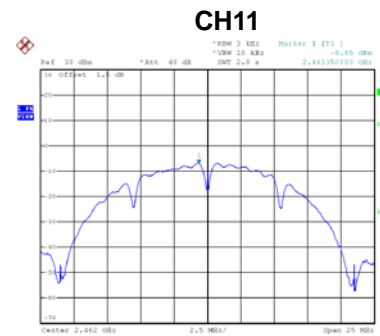
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.04	8	Complies
06	2437	-6.18	8	Complies
11	2462	-6.85	8	Complies



Date: 17 JUN 2019 11:29:11



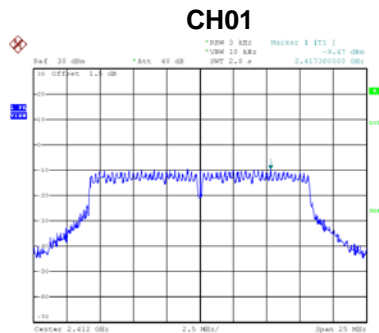
Date: 17 JUN 2019 11:29:17



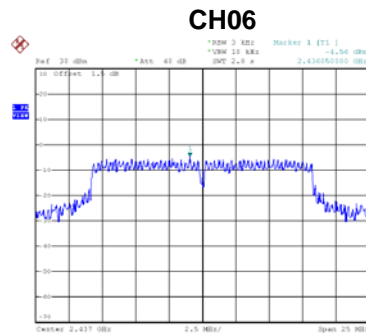
Date: 17 JUN 2019 11:29:01

Test Mode	TX G Mode
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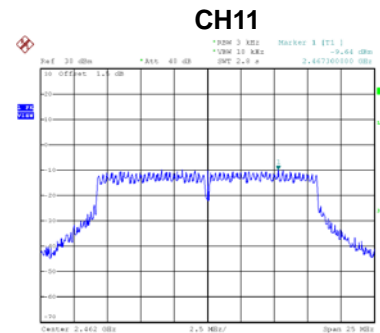
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.47	8	Complies
06	2437	-4.56	8	Complies
11	2462	-9.64	8	Complies



Date: 17 JUN 2019 11:32:26



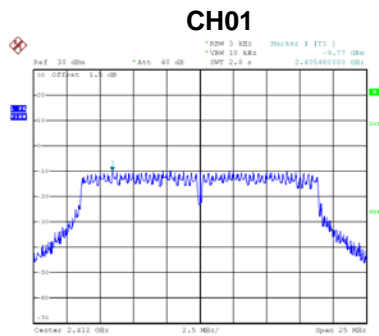
Date: 17 JUN 2019 11:32:43



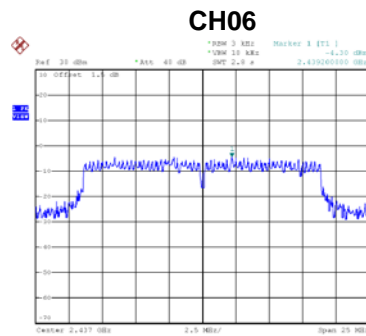
Date: 17 JUN 2019 11:32:53

Test Mode	TX N-20M Mode
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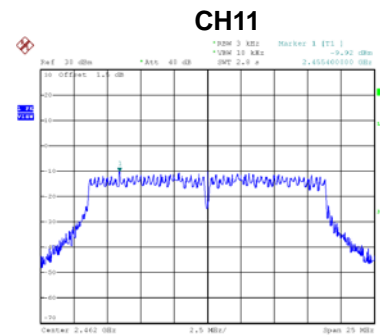
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.77	8	Complies
06	2437	-4.30	8	Complies
11	2462	-9.92	8	Complies



Date: 17 JUN 2019 11:40:04



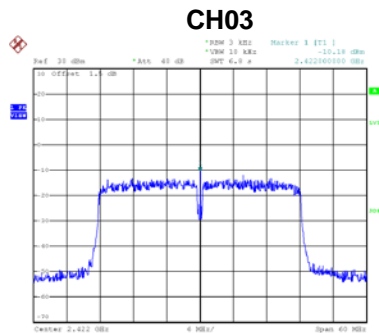
Date: 17 JUN 2019 11:41:54



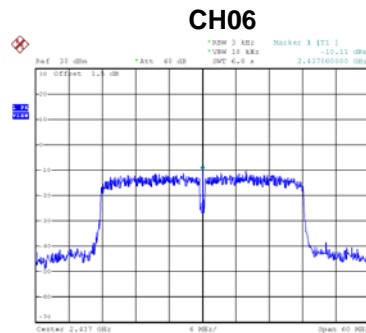
Date: 17 JUN 2019 11:46:01

Test Mode	TX N-40M Mode
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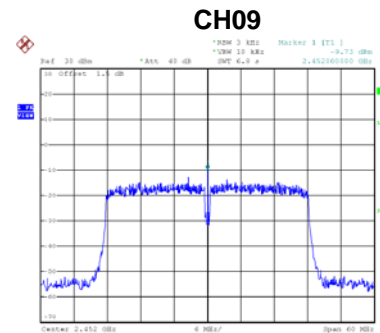
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
03	2422	-10.18	8	Complies
06	2437	-10.11	8	Complies
09	2452	-9.73	8	Complies



Date: 17 JUN 2019 11:50:15



Date: 17 JUN 2019 11:52:55



Date: 17 JUN 2019 11:54:33

End of Test Report