

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

SPECTA Mini RC

MODEL NUMBER: GL32

REPORT NUMBER: 4791156651.1-1-RF-1

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FCC ID: 2BCHV-GL3223

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	February 2, 2024	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	/	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C > when <Simple Acceptance> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS.....	6
2. TEST METHODOLOGY.....	7
3. FACILITIES AND ACCREDITATION.....	7
4. CALIBRATION AND UNCERTAINTY	8
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>8</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>8</i>
5. EQUIPMENT UNDER TEST	9
5.1. <i>DESCRIPTION OF EUT</i>	<i>9</i>
5.2. <i>MAXIMUM OUTPUT POWER.....</i>	<i>9</i>
5.3. <i>CHANNEL LIST</i>	<i>9</i>
5.4. <i>TEST CHANNEL CONFIGURATION.....</i>	<i>11</i>
5.5. <i>THE WORSE CASE POWER SETTING PARAMETER</i>	<i>12</i>
5.6. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>12</i>
5.7. <i>THE WORSE CASE CONFIGURATIONS.....</i>	<i>12</i>
5.8. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>13</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED.....	14
7. ANTENNA PORT TEST RESULTS	16
7.1. <i>CONDUCTED OUTPUT POWER</i>	<i>16</i>
7.2. <i>6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH.....</i>	<i>17</i>
7.3. <i>POWER SPECTRAL DENSITY</i>	<i>19</i>
7.4. <i>CONDUCTED BAND EDGE AND SPURIOUS EMISSION.....</i>	<i>20</i>
7.5. <i>DUTY CYCLE</i>	<i>22</i>
8. RADIATED TEST RESULTS.....	23
8.1. <i>RESTRICTED BANDEdge</i>	<i>31</i>
8.2. <i>SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)</i>	<i>55</i>
8.3. <i>SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)</i>	<i>61</i>
8.4. <i>SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ).....</i>	<i>96</i>
8.5. <i>SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)</i>	<i>99</i>
8.6. <i>SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)</i>	<i>101</i>
9. ANTENNA REQUIREMENT	103
10. AC POWER LINE CONDUCTED EMISSION	104
11. TEST DATA.....	107
11.1. <i>APPENDIX A: DTS BANDWIDTH.....</i>	<i>107</i>

11.1.1.	Test Result.....	107
11.1.2.	Test Graphs	108
11.2.	<i>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH</i>	114
11.2.1.	Test Result.....	114
11.2.2.	Test Graphs	115
11.3.	<i>APPENDIX C: MAXIMUM CONDUCTED AVERAGE OUTPUT POWER</i>	121
11.3.1.	Test Result.....	121
11.4.	<i>APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY</i>	122
11.4.1.	Test Result.....	122
11.4.2.	Test Graphs	123
11.5.	<i>APPENDIX E: BAND EDGE MEASUREMENTS</i>	129
11.5.1.	Test Result.....	129
11.5.2.	Test Graphs	130
11.6.	<i>APPENDIX F: CONDUCTED SPURIOUS EMISSION</i>	134
11.6.1.	Test Result.....	134
11.6.2.	Test Graphs	135
11.7.	<i>APPENDIX G: DUTY CYCLE</i>	150
11.7.1.	Test Result.....	150
11.7.2.	Test Graphs	151

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: COGITO TECH COMPANY LIMITED
Address: 21/F Tai Yau Building, 181 Johnston Road, Wanchai Hong Kong

Manufacturer Information

Company Name: COGITO TECH COMPANY LIMITED
Address: 21/F Tai Yau Building, 181 Johnston Road, Wanchai Hong Kong

EUT Information

EUT Name: SPECTA Mini RC
Model: GL32
Brand: SPECTA
Sample Received Date: January 15, 2024
Sample Status: Normal
Sample ID: 6847974
Date of Tested: January 29, 2024 to February 1, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

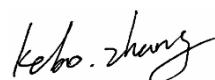
Prepared By:



Denny Huang

Senior Project Engineer

Checked By:



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Approved By:



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Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2 and ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.</p> <p>Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p>
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	SPECTA Mini RC
Model	GL32
Ratings	Input: DC 5 V, 2 A Battery: DC 3.6 V, 18.72 Wh

Radio Technology	SRD 2.4G
Operation Frequency	2.4GHz 1.4 MHz Bandwidth (2407.5 MHz ~ 2465.5 MHz) 2.4GHz 1.4 MHz Bandwidth (CA Mode) (2409.12 MHz ~ 2467.12 MHz) 2.4GHz 3 MHz Bandwidth (2417.5 MHz ~ 2456.5 MHz) 2.4GHz 10 MHz Bandwidth (2405.5 MHz ~ 2476.5 MHz) 2.4GHz 20 MHz Bandwidth (2410.5 MHz ~ 2472.5 MHz)
Modulation	OFDM (QPSK, 16QAM, 64QAM)

5.2. MAXIMUM OUTPUT POWER

SRD 2.4GHz	Frequency (MHz)	Channel Number	Maximum Conducted Average Output Power (dBm)
1.4 MHz Mode	2407.5 MHz ~ 2465.5 MHz	1-30[30]	22.67
1.4 MHz CA Mode	2409.12 MHz ~ 2467.12 MHz	1-30[30]	22.87
3 MHz Mode	2417.5 MHz ~ 2456.5 MHz	1-14[14]	22.94
10 MHz Mode	2405.5 MHz ~ 2476.5 MHz	1-72[72]	13.02
20 MHz Mode	2410.5 MHz ~ 2472.5 MHz	1-63[63]	13.00

5.3. CHANNEL LIST

2.4GHz 1.4 MHz Bandwidth (2407.5 MHz ~ 2465.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2407.5	9	2423.5	17	2439.5	25	2455.5
2	2409.5	10	2425.5	18	2441.5	26	2457.5
3	2411.5	11	2427.5	19	2443.5	27	2459.5
4	2413.5	12	2429.5	20	2445.5	28	2461.5
5	2415.5	13	2431.5	21	2447.5	29	2463.5
6	2417.5	14	2433.5	22	2449.5	30	2465.5
7	2419.5	15	2435.5	23	2451.5	/	/
8	2421.5	16	2437.5	24	2453.5	/	/

2.4GHz 1.4 MHz Bandwidth CA Mode (2409.12 MHz ~ 2467.12 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2409.12	9	2425.12	17	2441.12	25	2457.12
2	2411.12	10	2427.12	18	2443.12	26	2459.12
3	2413.12	11	2429.12	19	2445.12	27	2461.12
4	2415.12	12	2431.12	20	2447.12	28	2463.12
5	2417.12	13	2433.12	21	2449.12	29	2465.12
6	2419.12	14	2435.12	22	2451.12	30	2467.12
7	2421.12	15	2437.12	23	2453.12	/	/
8	2423.12	16	2439.12	24	2455.12	/	/

2.4GHz 3 MHz Bandwidth Mode (2417.5 MHz ~ 2456.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2417.5	5	2432.5	9	2441.5	13	2453.5
2	2420.5	6	2429.5	10	2444.5	14	2456.5
3	2423.5	7	2435.5	11	2447.5	/	/
4	2426.5	8	2438.5	12	2450.5	/	/

2.4GHz 10 MHz Bandwidth (2405.5 MHz ~ 2476.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405.5	18	2424.5	37	2443.5	56	2462.5
2	2406.5	19	2425.5	38	2444.5	57	2463.5
3	2407.5	20	2426.5	39	2445.5	58	2464.5
4	2408.5	21	2427.5	40	2446.5	59	2465.5
5	2409.5	22	2428.5	41	2447.5	60	2466.5
6	2410.5	23	2429.5	42	2448.5	61	2467.5
7	2411.5	24	2430.5	43	2449.5	62	2466.5
8	2412.5	25	2431.5	44	2450.5	63	2467.5
9	2413.5	26	2432.5	45	2451.5	64	2468.5
10	2414.5	27	2433.5	46	2452.5	65	2469.5
11	2415.5	28	2434.5	47	2453.5	66	2470.5
12	2416.5	29	2435.5	48	2454.5	67	2471.5
13	2417.5	30	2436.5	49	2455.5	68	2472.5
14	2418.5	31	2437.5	50	2456.5	69	2473.5
15	2419.5	32	2438.5	51	2457.5	70	2474.5
16	2420.5	33	2439.5	52	2458.5	71	2475.5
17	2421.5	34	2440.5	53	2459.5	72	2476.5
18	2422.5	35	2441.5	54	2460.5	/	/
17	2423.5	36	2442.5	55	2461.5	/	/

2.4GHz 20 MHz Bandwidth (2410.5 MHz ~ 2472.5 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410.5	17	2426.5	33	2442.5	49	2458.5
2	2411.5	18	2427.5	34	2443.5	50	2459.5
3	2412.5	19	2428.5	35	2444.5	51	2460.5
4	2413.5	20	2429.5	36	2445.5	52	2461.5
5	2414.5	21	2430.5	37	2446.5	53	2462.5
6	2415.5	22	2431.5	38	2447.5	54	2463.5
7	2416.5	23	2432.5	39	2448.5	55	2464.5
8	2417.5	24	2433.5	40	2449.5	56	2465.5
9	2418.5	25	2434.5	41	2450.5	57	2466.5
10	2419.5	26	2435.5	42	2451.5	58	2467.5
11	2420.5	27	2436.5	43	2452.5	59	2468.5
12	2421.5	28	2437.5	44	2453.5	60	2469.5
13	2422.5	29	2438.5	45	2454.5	61	2470.5
14	2423.5	30	2439.5	46	2455.5	62	2471.5
15	2424.5	31	2440.5	47	2456.5	63	2472.5
16	2425.5	32	2441.5	48	2457.5	/	/

5.4. TEST CHANNEL CONFIGURATION

SRD 2.4GHz	Test Channel Number	Frequency
1.4 MHz Mode	CH 1(Low Channel), CH 16(MID Channel), CH 30(High Channel)	2407.5 MHz, 2437.5 MHz, 2465.5 MHz
1.4 MHz CA Mode	CH 1(Low Channel), CH 15(MID Channel), CH 34(High Channel)	2409.12 MHz, 2437.12 MHz, 2467.12 MHz
3 MHz Mode	CH 1(Low Channel), CH 8(MID Channel), CH 14(High Channel)	2417.5 MHz, 2438.5 MHz, 2456.5 MHz
10 MHz Mode	CH 1(Low Channel), CH 34(MID Channel), CH 70, CH 71, CH 72(High Channel)	2405.5 MHz, 2440.5 MHz, 2474.5 MHz, 2475.5 MHz, 2476.5 MHz
20 MHz Mode	CH 1(Low Channel), CH 32(MID Channel), CH 63(High Channel)	2410.5 MHz, 2441.5 MHz, 2472.5 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5 MHz Band				
Test Software		SdrConsole		
Mode	Transmit Antenna Number	Test Software setting value		
		NCB: 1.4 MHz/1.4 MHz CA/3 MHz/10 MHz/20 MHz		
		Low Channel	MID Channel	High Channel
1.4 MHz Mode	1	0	-2	-1
1.4 MHz Mode CA	1	0	-2	0
3 MHz Mode	1	2	2	2
10 MHz Mode	1	24	6	41
20 MHz Mode	1	35	6	69

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	2400 ~ 2483.5	Integral Antenna	3

Test Mode	Transmit and Receive Mode	Description
1.4 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
1.4 MHz CA Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
3 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
10 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.
20 MHz Mode	<input checked="" type="checkbox"/> 1TX, 2RX	ANT 1 can be used as transmitting antenna. ANT 1 & 2 can be used as receiving antenna.

Note: 1. The value of the antenna gain was declared by customer.

2. 2.4GHz and 5.8GHz radio doesn't support simultaneous transmission.

5.7. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst case Data Rates declared by the customer:

SRD 2.4G-1.4 MHz Mode/QPSK
 SRD 2.4G-1.4 MHz CA Mode/QPSK
 SRD 2.4G-3 MHz Mode/QPSK
 SRD 2.4G-10 MHz Mode/QPSK
 SRD 2.4G-20 MHz Mode/QPSK

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	/
2	Adapter Power	/	QC18-US	Input: AC 100 ~ 240 V, 50/60 Hz, 0.3 A Output: DC 5 V, 3 A

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	Type C	Unshielded	1.0	/

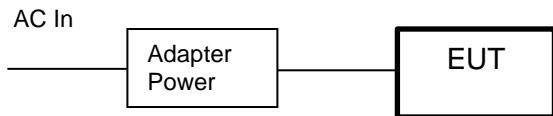
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a laptop.

SETUP DIAGRAM FOR TESTS



6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Mar.31,2023	Mar.30,2024
Vector Signal Generator	R&S	SMBV100A	261637	Oct.12, 2023	Oct.11, 2024
Signal Generator	R&S	SMB100A	178553	Oct.12, 2023	Oct.11, 2024
Signal Analyzer	R&S	FSV40	101118	Oct.12, 2023	Oct.11, 2024
Software					
Description	Manufacturer	Name		Version	
For R&S TS 8997 Test System	Rohde & Schwarz	EMC 32		10.60.10	
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.25, 2023	Sep.24, 2024
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.12, 2023	Oct.11, 2024
DC power supply	Keysight	E3642A	MY55159130	Oct.12, 2023	Oct.11, 2024
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.12, 2023	Oct.11, 2024
Attenuator	Aglient	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024
RF Control Unit	Tonsend	JS0806-2	23B80620666	April 18, 2023	April 17, 2024
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		V3.2.22	

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Oct.13, 2023	Oct.12, 2024
Two-Line V-Network	R&S	ENV216	101983	Oct.13, 2023	Oct.12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.13, 2023	Oct.12, 2024
Software					
Description		Manufacturer		Name	Version
Test Software for Conducted Emissions		Farad		EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.12, 2023	Oct.11, 2024
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024
Software					
Description		Manufacturer		Name	Version
Test Software for Radiated Emissions		Farad		EZ-EMC	Ver. UL-3A1

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

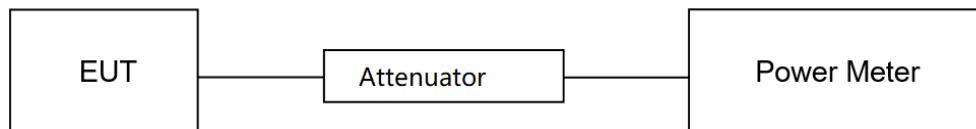
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

The test result in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 °C	Relative Humidity	64.5%
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

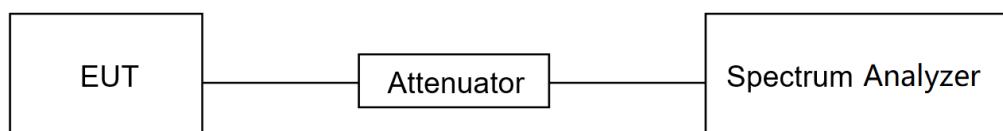
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

- Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 °C	Relative Humidity	64.5%
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.5.

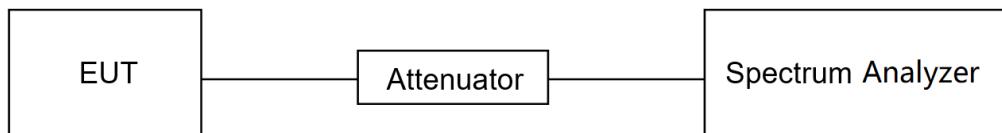
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{OBW}$ bandwidth
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 °C	Relative Humidity	64.5%
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

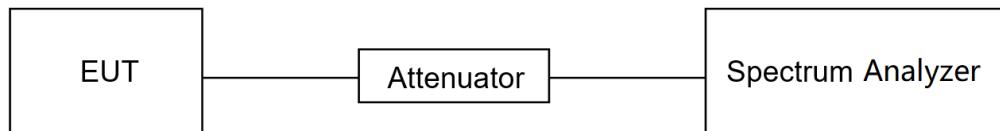
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times$ RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times$ RBW
measurement points	\geq span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP**TEST ENVIRONMENT**

Temperature	23.4 °C	Relative Humidity	64.5%
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

TEST RESULTS

Please refer to section "Test Data" - Appendix E&F

7.5. DUTY CYCLE

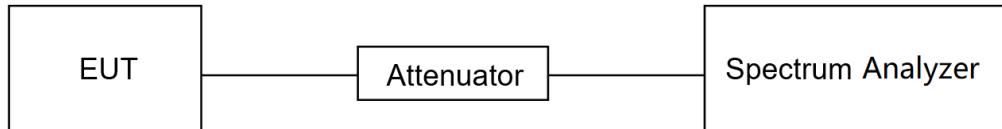
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 °C	Relative Humidity	64.5%
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 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

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dB_{UV}/m, which is equivalent to $Y-51.5 = Z$ dB_{UA}/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

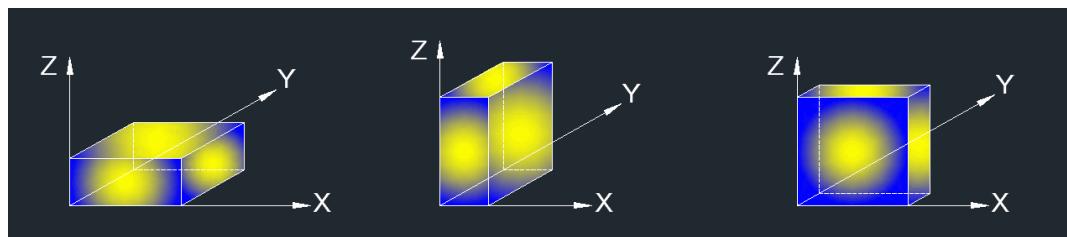
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

For Restricted Bandedge:**Note:**

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: $VBW=1/Ton$, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):**Note:**

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. $dBuA/m = dBuV/m - 20\log_{10}[120\pi] = dBuV/m - 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):**Note:**

1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):**Note:**

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/Ton$, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

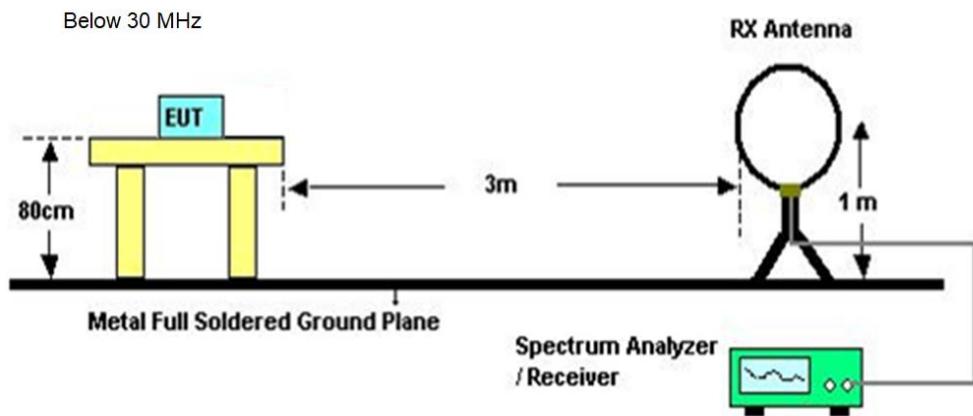
Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

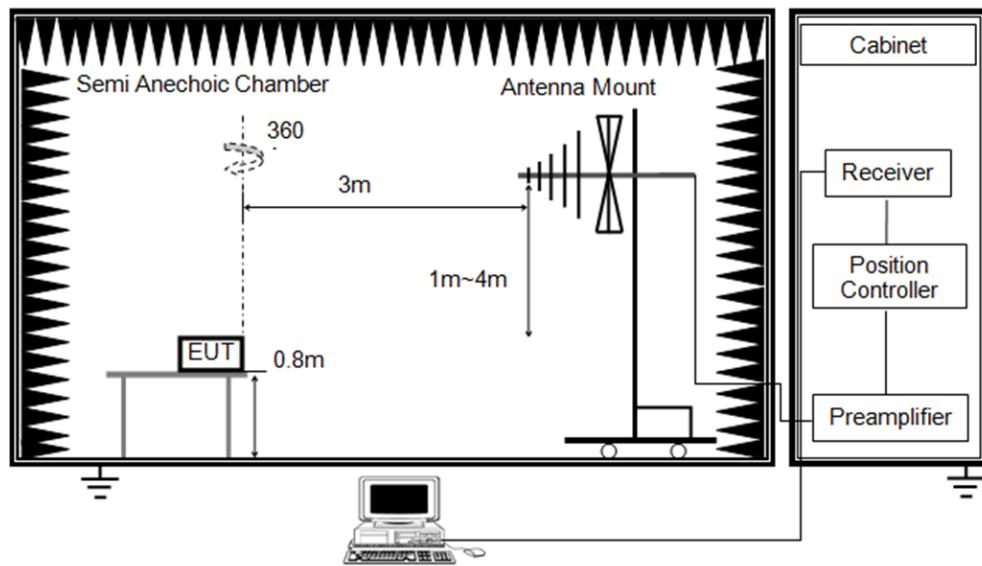
For Radiate Spurious emission:

Pre-scan had been done for the antenna manipulated through typical positions and lengths, only the worst data was recorded in the report.

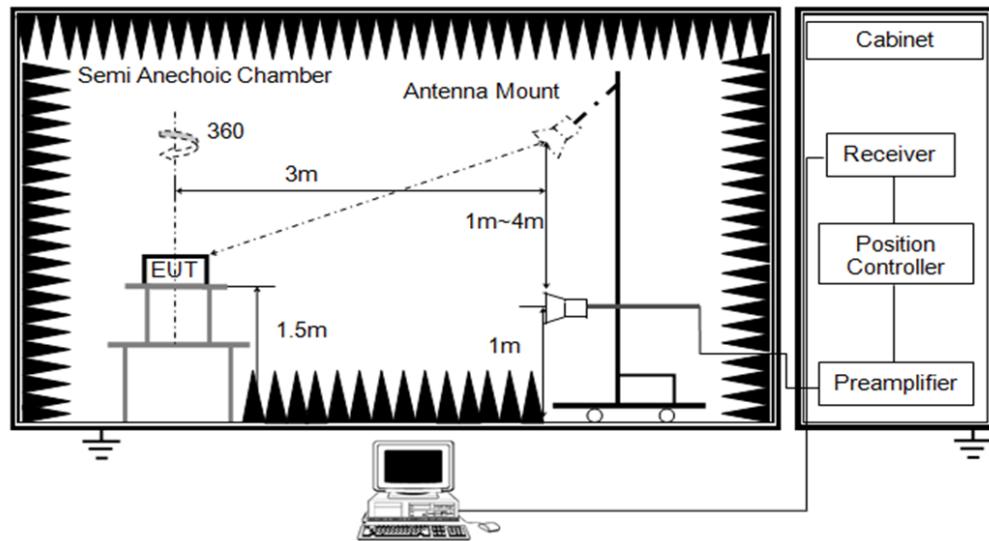
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



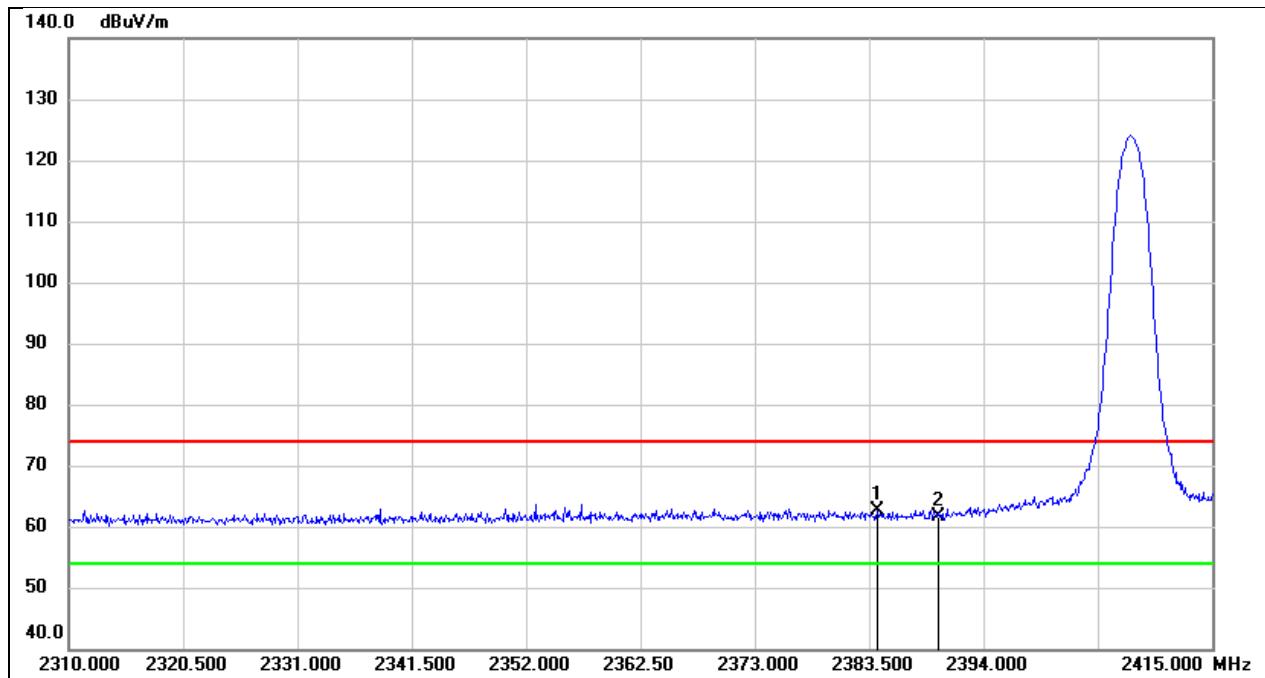
TEST ENVIRONMENT

Temperature	25.8 °C	Relative Humidity	56%
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 V

TEST RESULTS

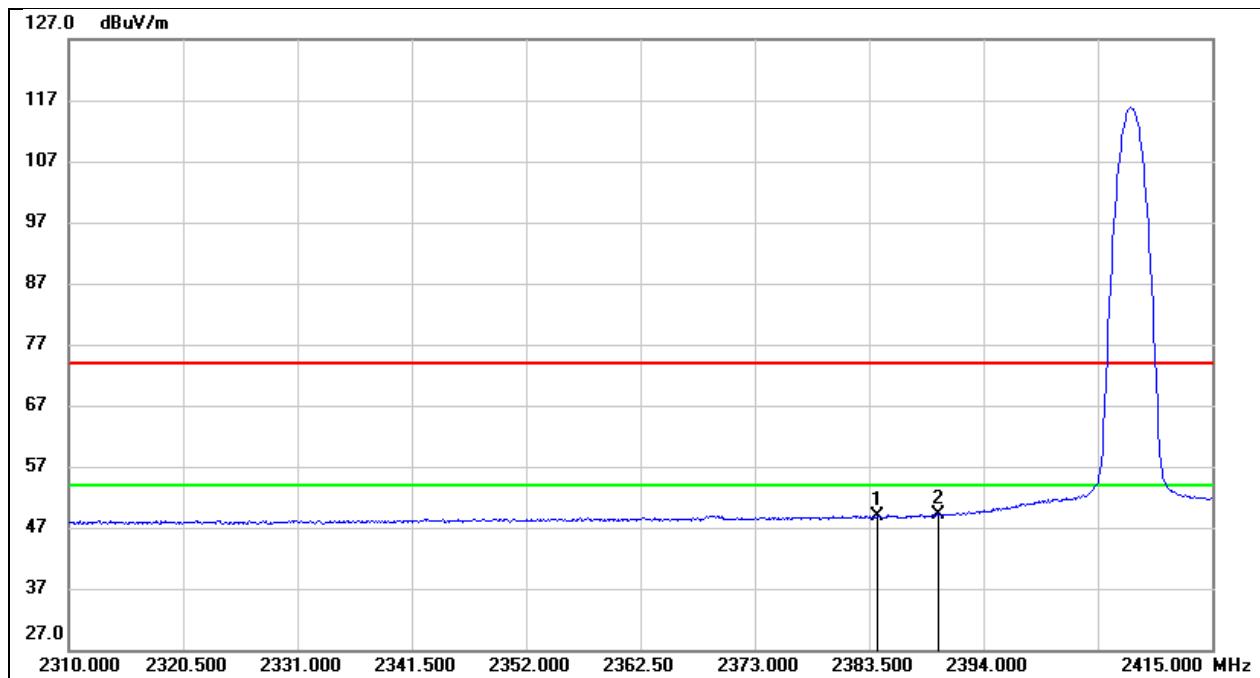
8.1. RESTRICTED BANDEDGE

Test Mode:	SRD 1.4MHz PK	Frequency(MHz):	2407.5
Polarity:	Vertical	Test Voltage:	DC 5 V



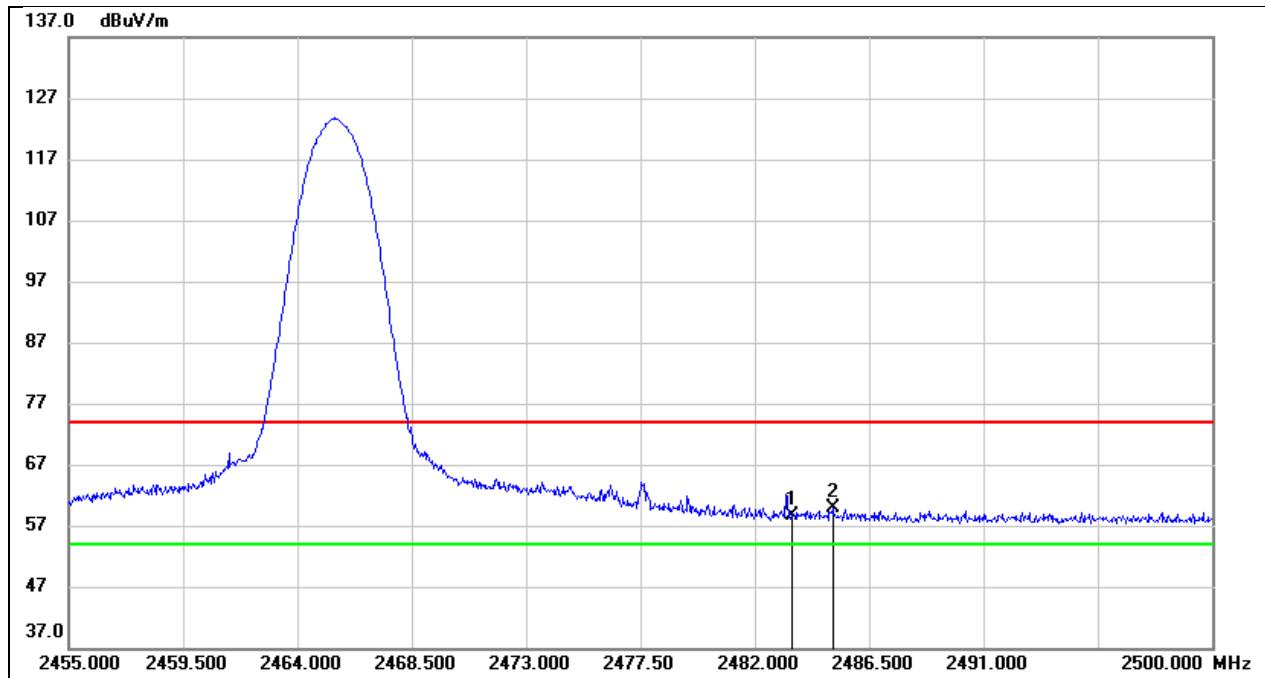
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.235	30.43	32.14	62.57	74.00	-11.43	peak
2	2390.000	29.47	32.16	61.63	74.00	-12.37	peak

Test Mode:	SRD 1.4MHz AV	Frequency(MHz):	2407.5
Polarity:	Vertical	Test Voltage:	DC 5 V



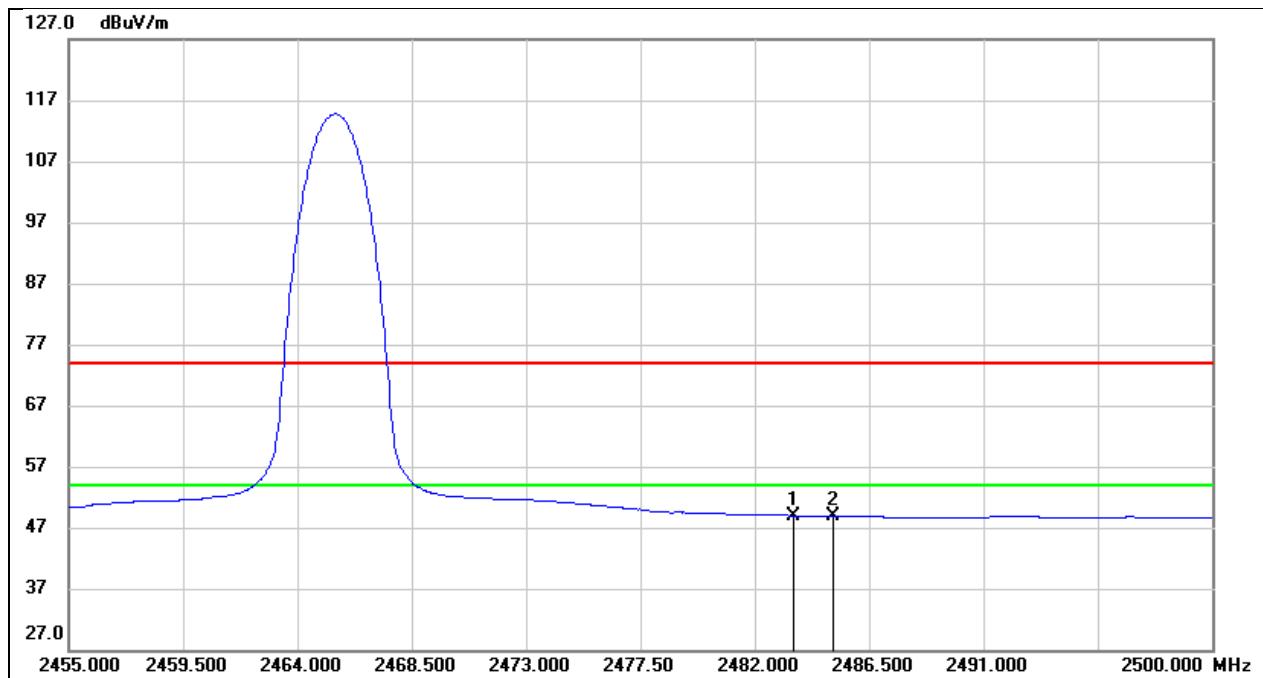
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.235	16.66	32.14	48.80	54.00	-5.20	AVG
2	2390.000	16.91	32.16	49.07	54.00	-4.93	AVG

Test Mode:	SRD 1.4MHz PK	Frequency(MHz):	2465.5
Polarity:	Vertical	Test Voltage:	DC 5 V



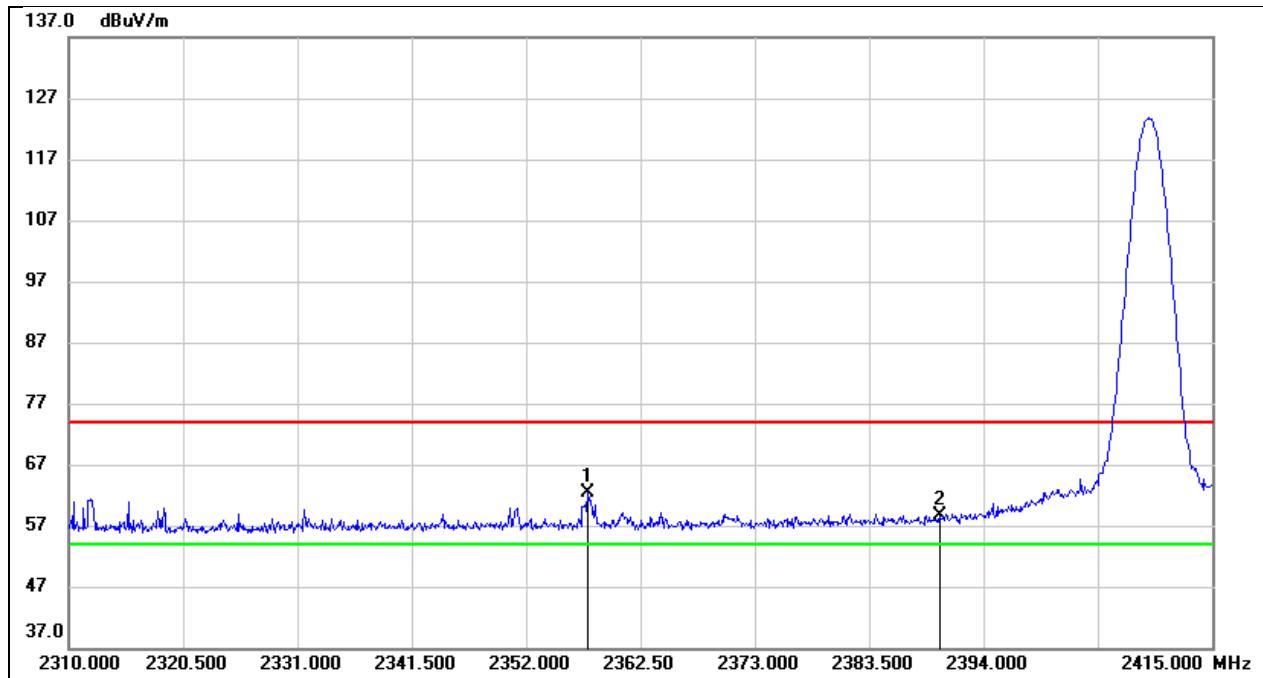
No.	Frequency (MHz)	Reading (dB _{uV})	Correct (dB/m)	Result (dB _{uV/m})	Limit (dB _{uV/m})	Margin (dB)	Remark
1	2483.500	26.18	32.44	58.62	74.00	-15.38	peak
2	2485.060	27.41	32.44	59.85	74.00	-14.15	peak

Test Mode:	SRD 1.4MHz AV	Frequency(MHz):	2465.5
Polarity:	Vertical	Test Voltage:	DC 5 V



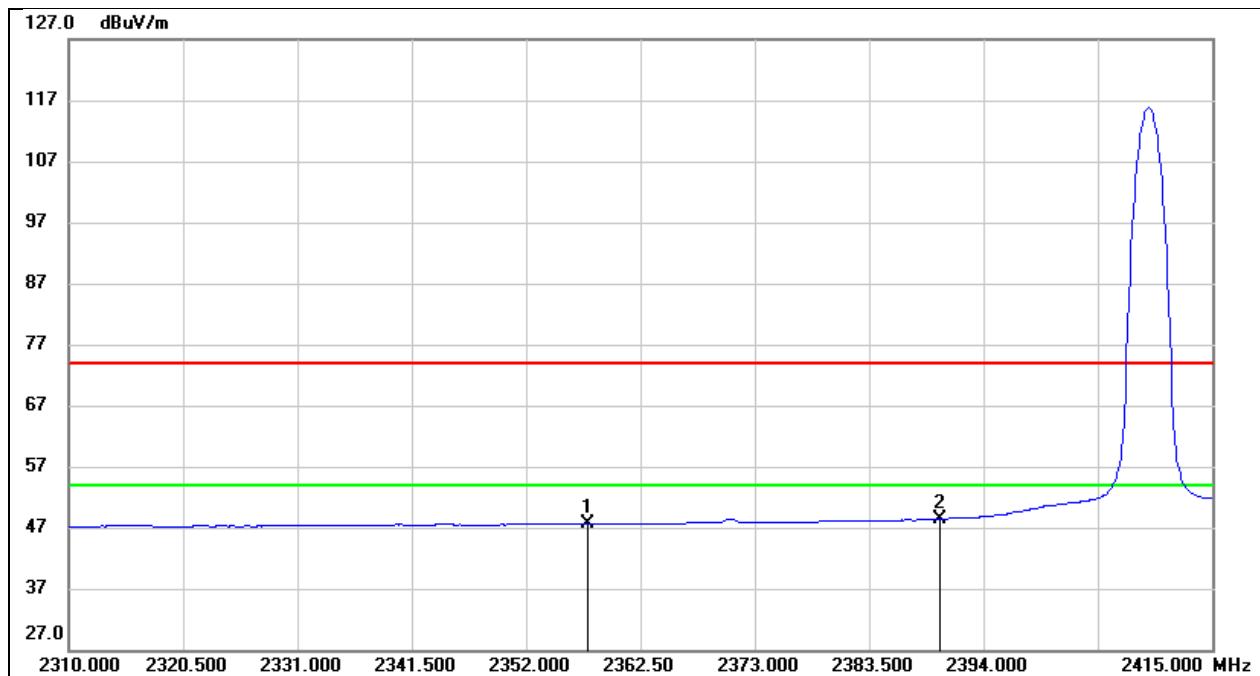
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.56	32.44	49.00	54.00	-5.00	AVG
2	2485.060	16.40	32.44	48.84	54.00	-5.16	AVG

Test Mode:	SRD 1.4MHz CA PK	Frequency(MHz):	2409.12
Polarity:	Vertical	Test Voltage:	DC 5 V



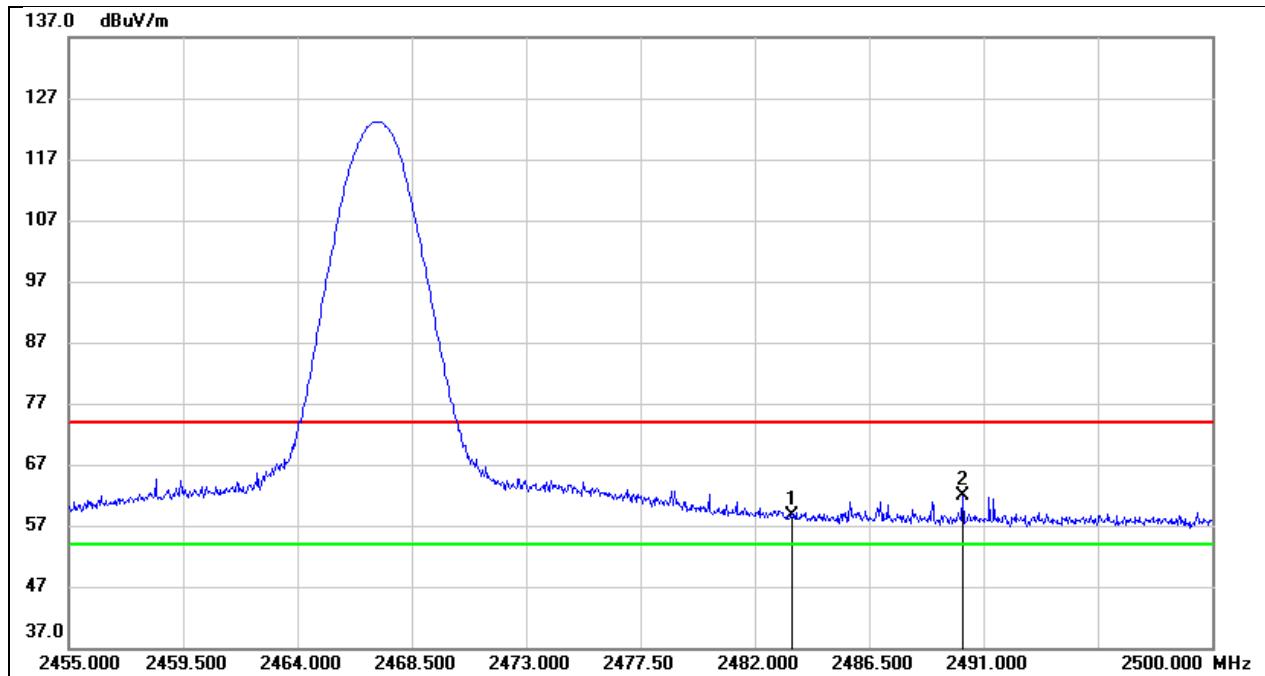
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2357.670	30.33	32.06	62.39	74.00	-11.61	peak
2	2390.000	26.38	32.16	58.54	74.00	-15.46	peak

Test Mode:	SRD 1.4MHz CA AV	Frequency(MHz):	2409.12
Polarity:	Vertical	Test Voltage:	DC 5 V



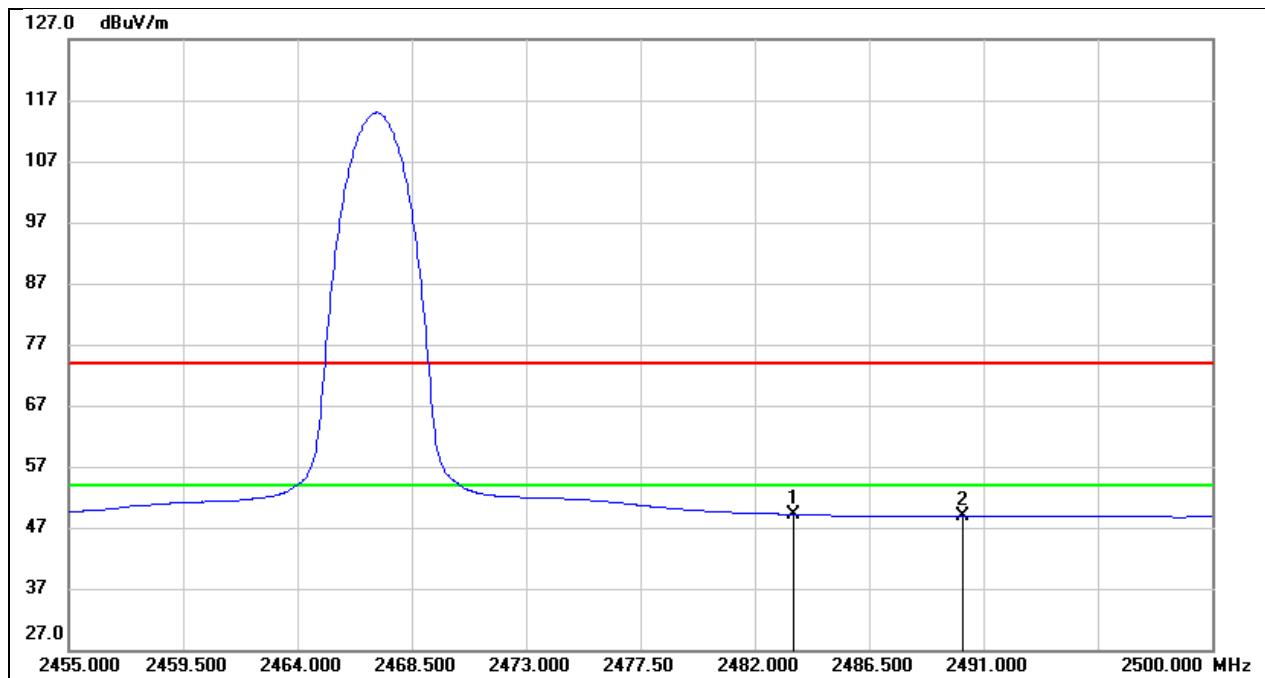
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2357.670	15.61	32.06	47.67	54.00	-6.33	AVG
2	2390.000	16.27	32.16	48.43	54.00	-5.57	AVG

Test Mode:	SRD 1.4MHz CA PK	Frequency(MHz):	2467.12
Polarity:	Vertical	Test Voltage:	DC 5 V



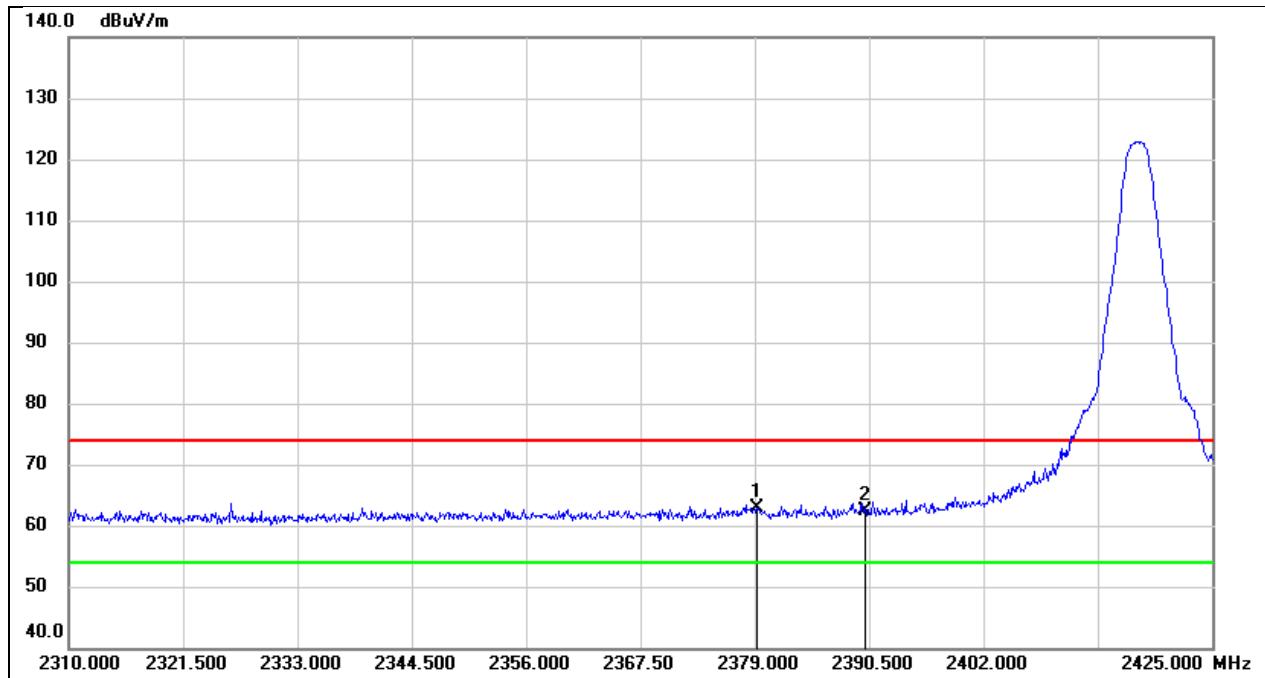
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	26.08	32.44	58.52	74.00	-15.48	peak
2	2490.190	29.45	32.46	61.91	74.00	-12.09	peak

Test Mode:	SRD 1.4MHz CA AV	Frequency(MHz):	2467.12
Polarity:	Vertical	Test Voltage:	DC 5 V



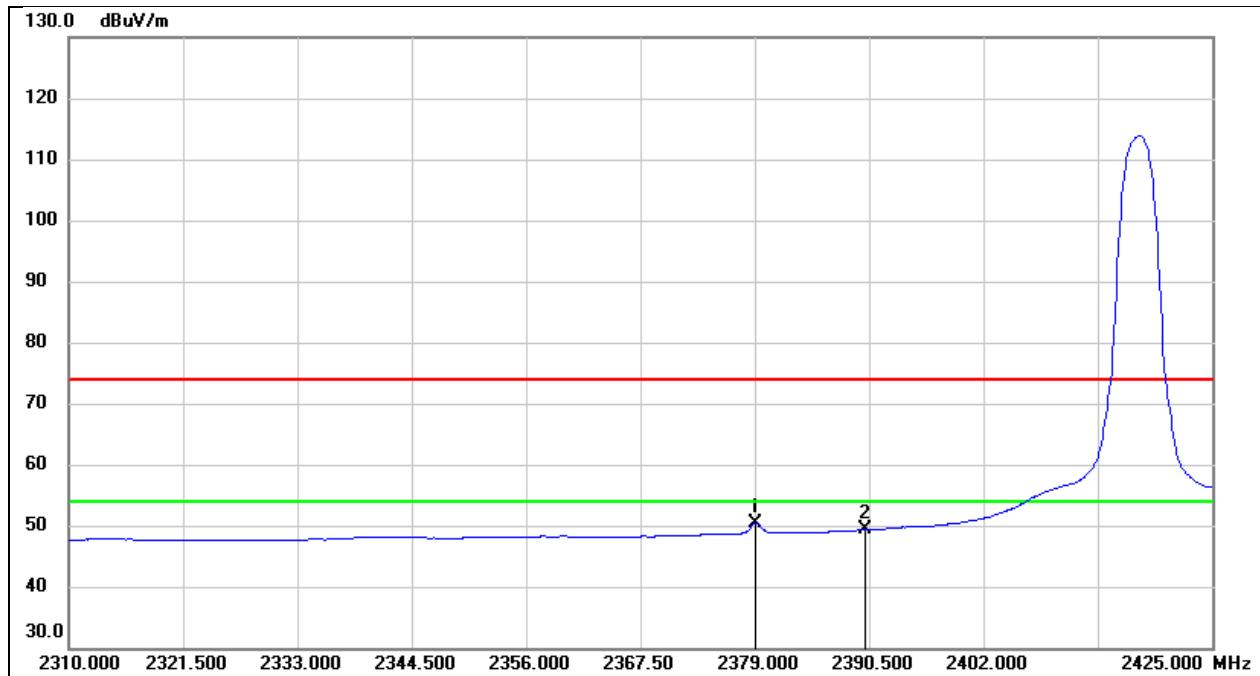
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.67	32.44	49.11	54.00	-4.89	AVG
2	2490.190	16.37	32.46	48.83	54.00	-5.17	AVG

Test Mode:	SRD 3MHz PK	Frequency(MHz):	2417.5
Polarity:	Vertical	Test Voltage:	DC 5 V



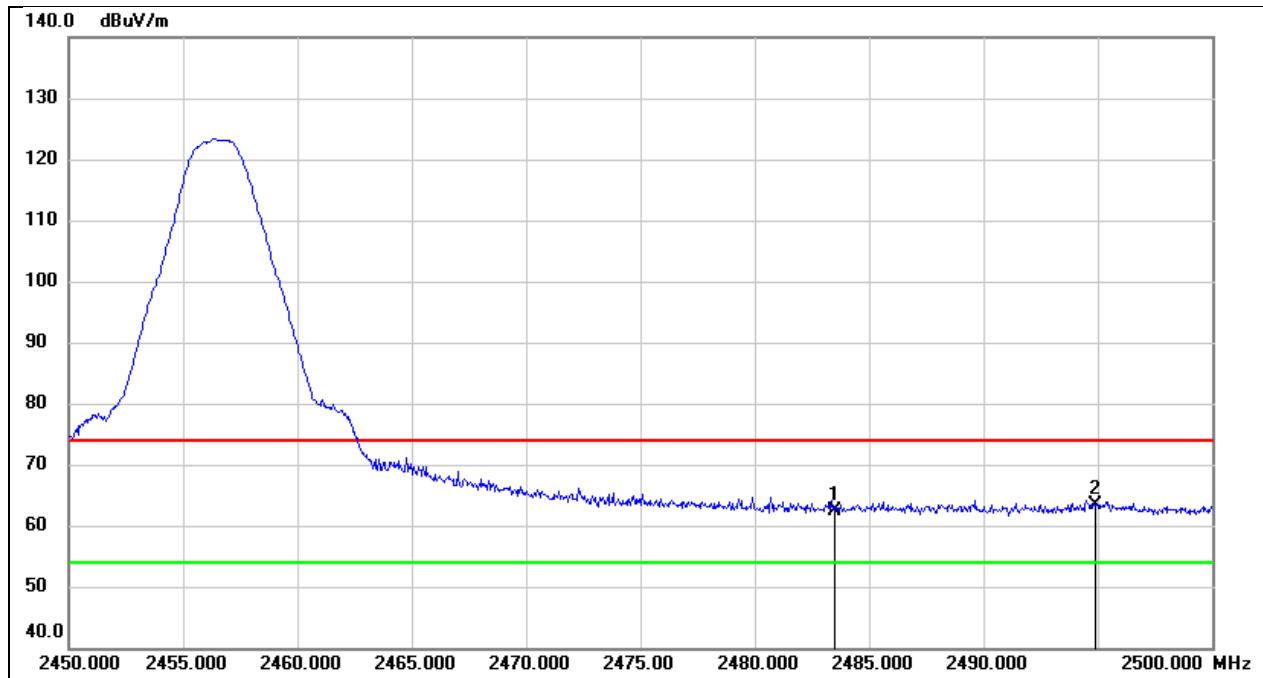
No.	Frequency (MHz)	Reading (dB _{uV})	Correct (dB/m)	Result (dB _{uV/m})	Limit (dB _{uV/m})	Margin (dB)	Remark
1	2379.115	30.65	32.13	62.78	74.00	-11.22	peak
2	2390.000	30.17	32.16	62.33	74.00	-11.67	peak

Test Mode:	SRD 3MHz AV	Frequency(MHz):	2417.5
Polarity:	Vertical	Test Voltage:	DC 5 V



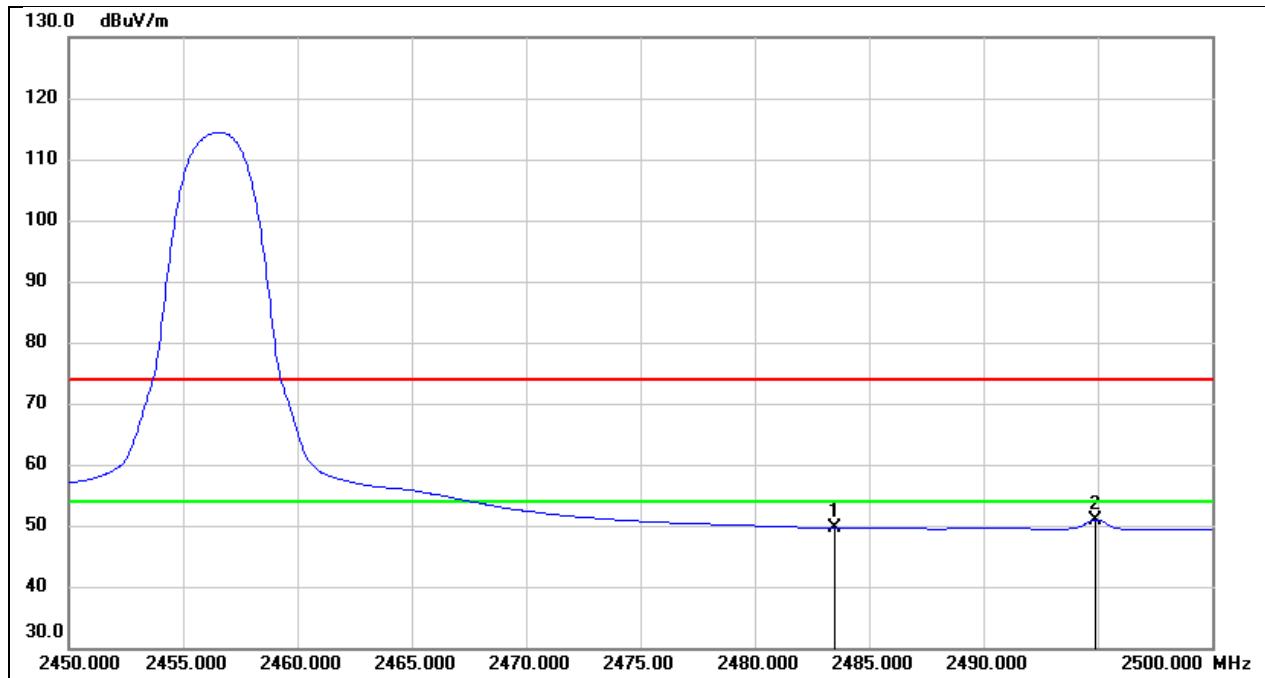
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2379.115	18.34	32.13	50.47	54.00	-3.53	AVG
2	2390.000	17.19	32.16	49.35	54.00	-4.65	AVG

Test Mode:	SRD 3MHz PK	Frequency(MHz):	2456.5
Polarity:	Vertical	Test Voltage:	DC 5 V



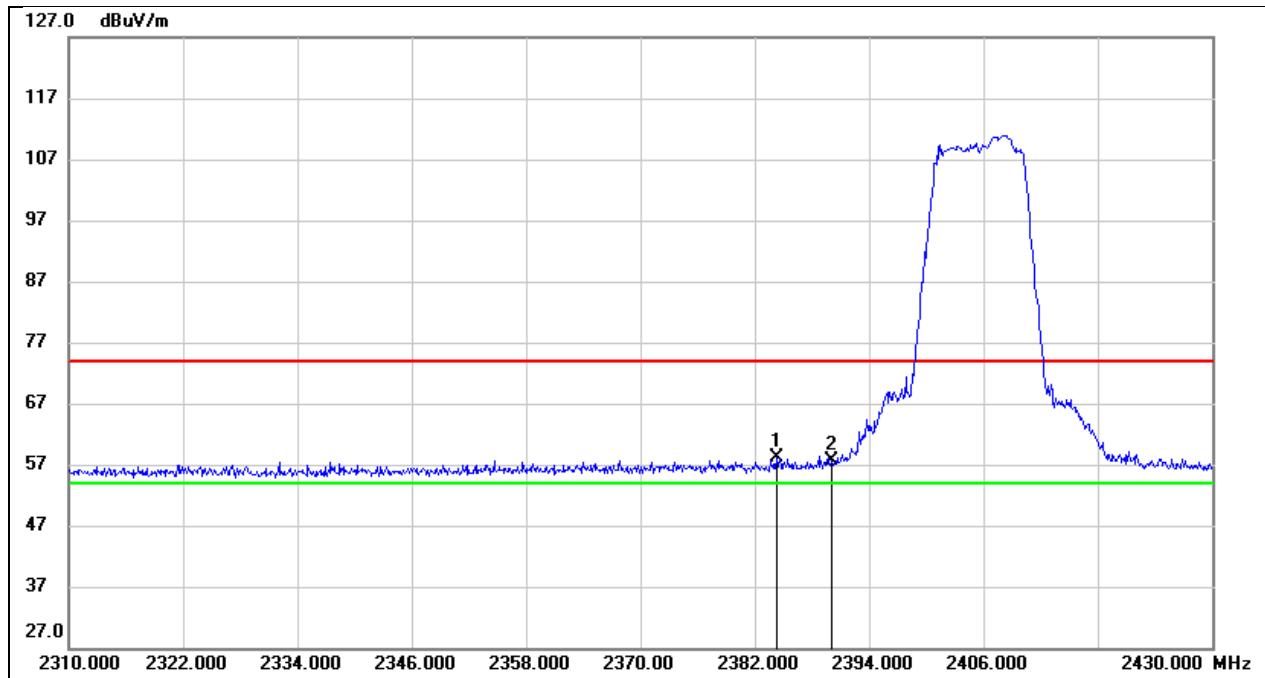
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	29.89	32.44	62.33	74.00	-11.67	peak
2	2494.900	30.88	32.48	63.36	74.00	-10.64	peak

Test Mode:	SRD 3MHz AV	Frequency(MHz):	2456.5
Polarity:	Vertical	Test Voltage:	DC 5 V



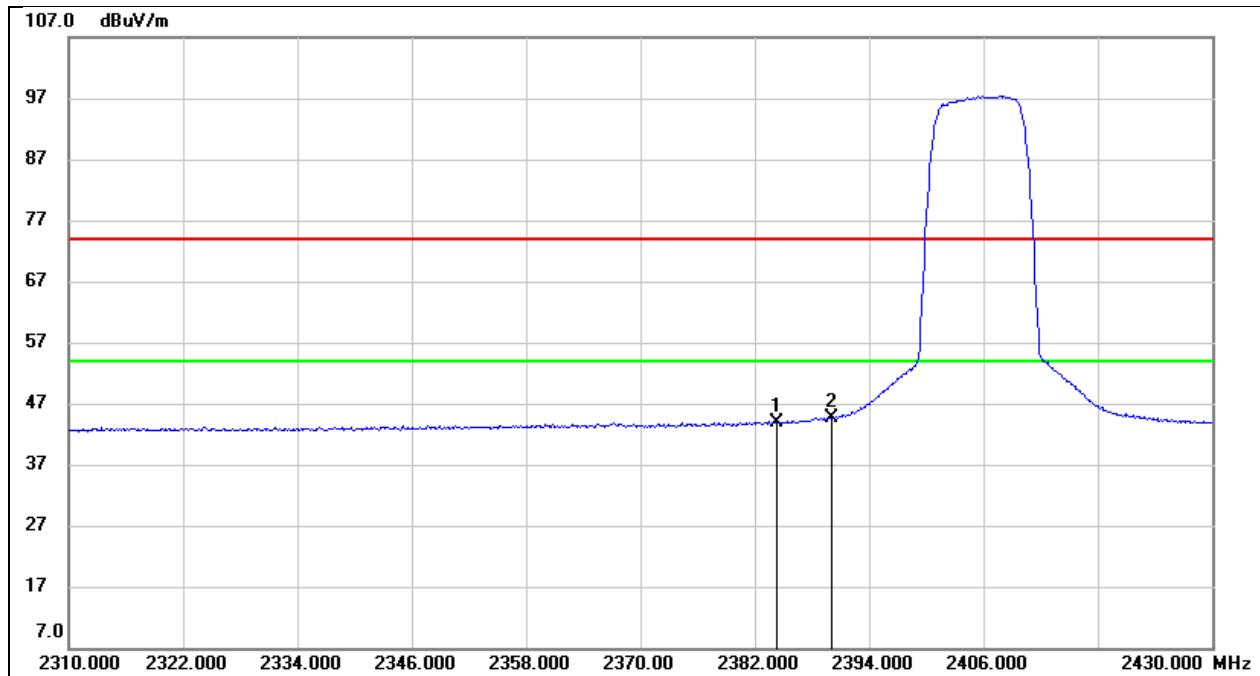
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	17.20	32.44	49.64	54.00	-4.36	AVG
2	2494.900	18.38	32.48	50.86	54.00	-3.14	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2405.5
Polarity:	Vertical	Test Voltage:	DC 5 V



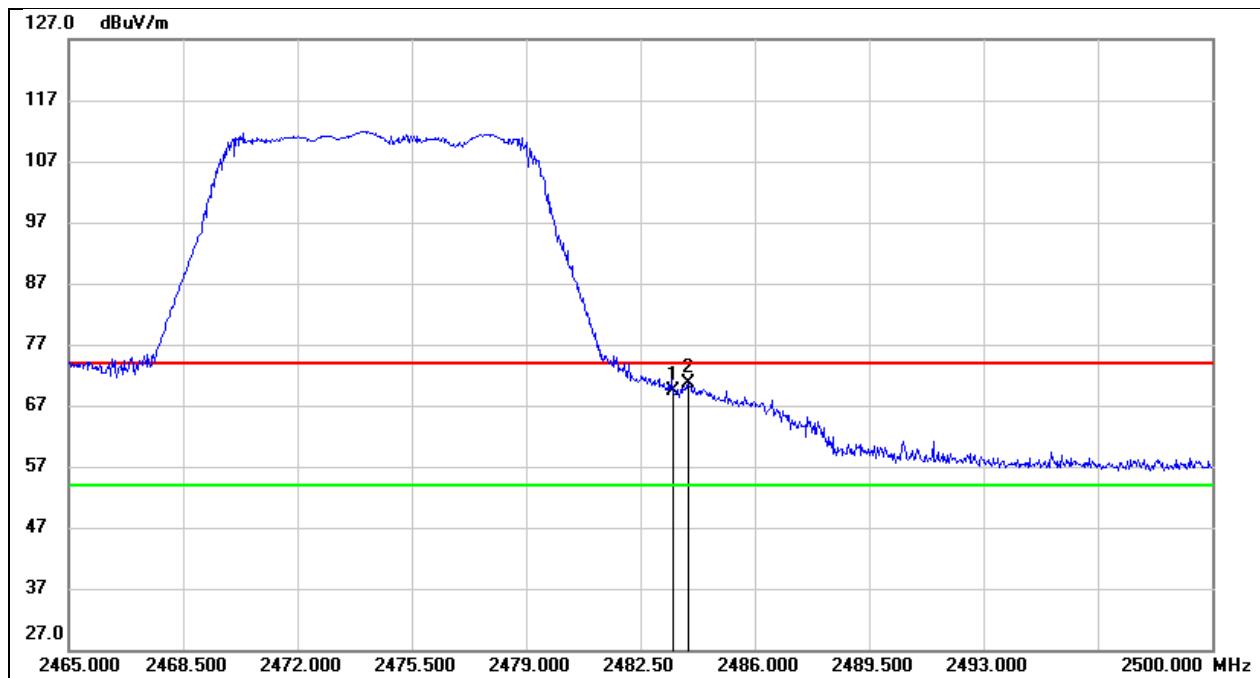
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.280	25.93	32.14	58.07	74.00	-15.93	peak
2	2390.000	25.50	32.16	57.66	74.00	-16.34	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2405.5
Polarity:	Vertical	Test Voltage:	DC 5 V



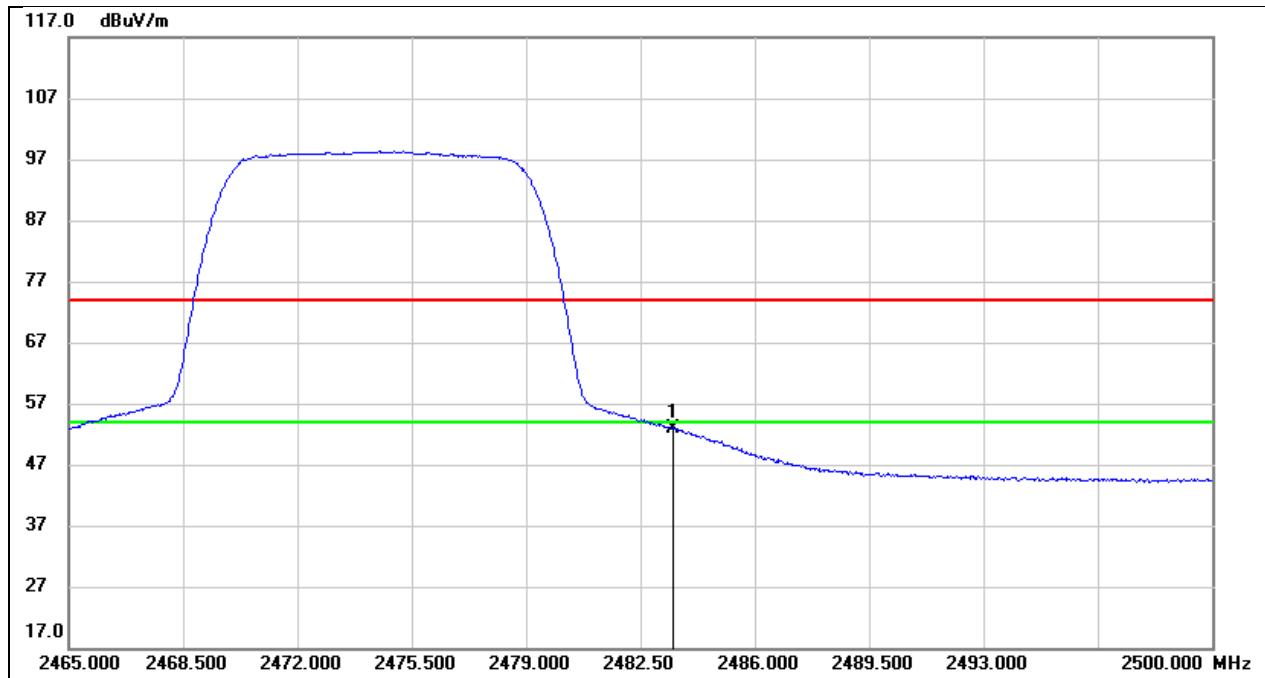
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.280	11.71	32.14	43.85	54.00	-10.15	AVG
2	2390.000	12.50	32.16	44.66	54.00	-9.34	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2474.5
Polarity:	Vertical	Test Voltage:	DC 5 V



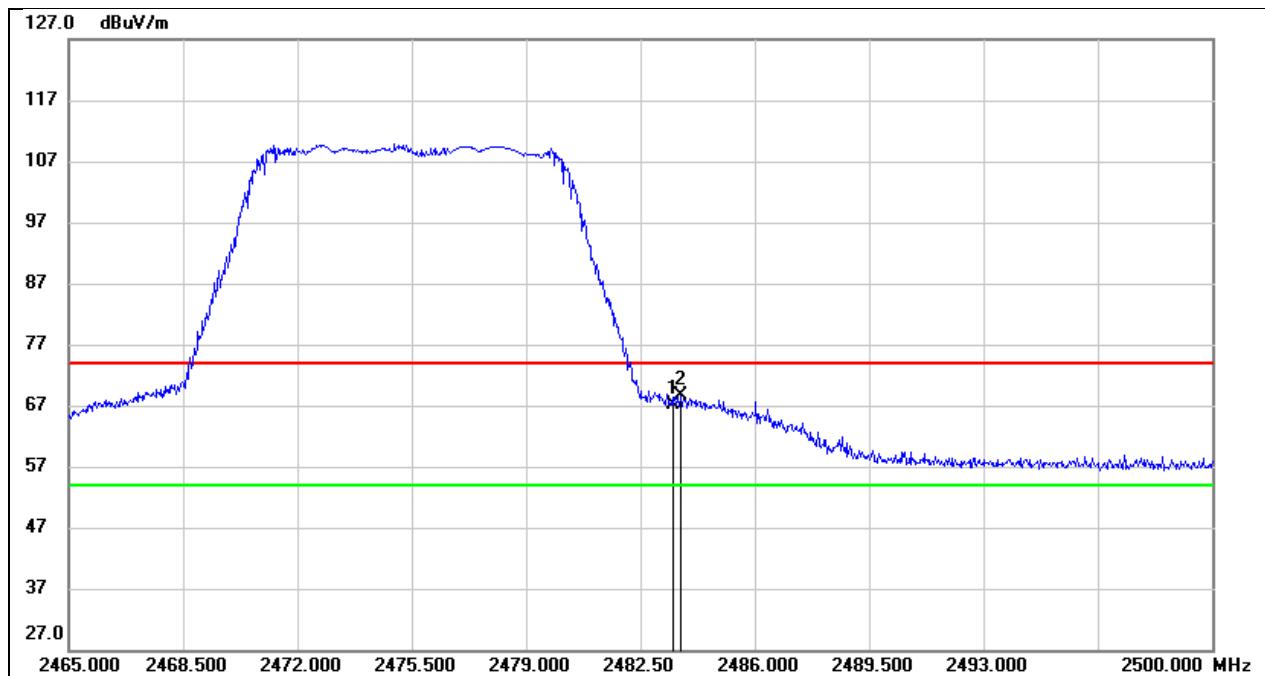
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.91	32.44	69.35	74.00	-4.65	peak
2	2483.970	38.11	32.44	70.55	74.00	-3.45	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2474.5
Polarity:	Vertical	Test Voltage:	DC 5 V



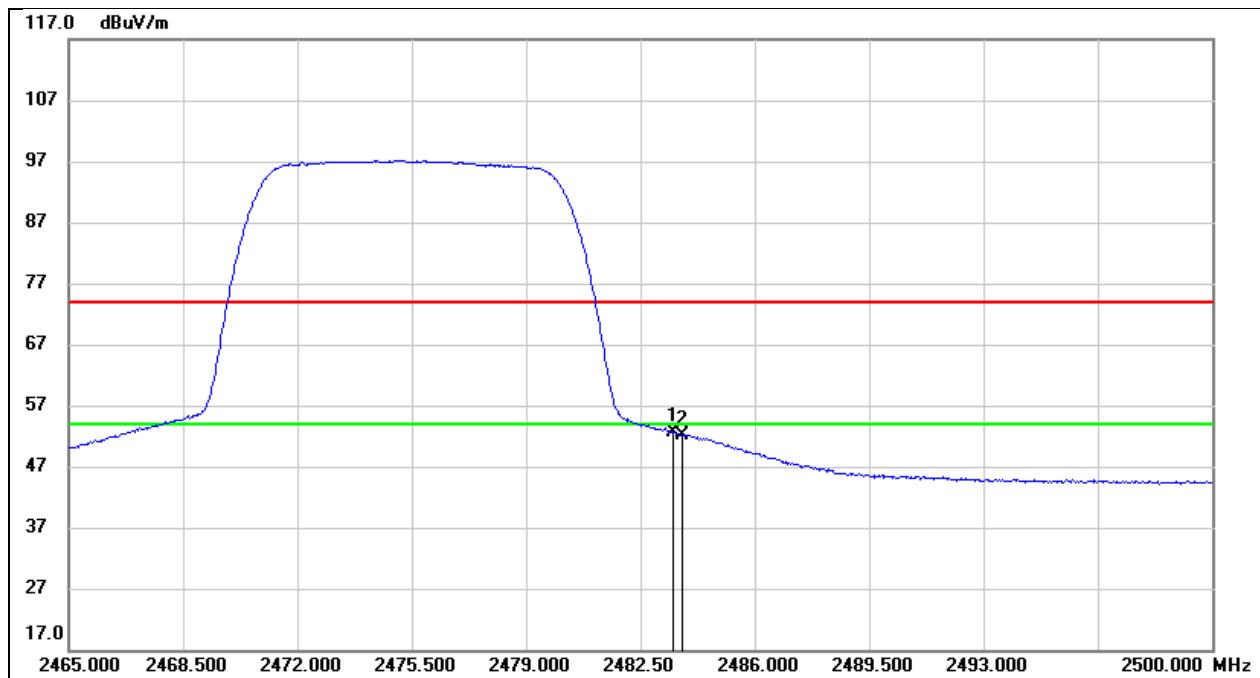
No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB/m)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Remark
1	2483.500	20.43	32.44	52.87	54.00	-1.13	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2475.5
Polarity:	Vertical	Test Voltage:	DC 5 V



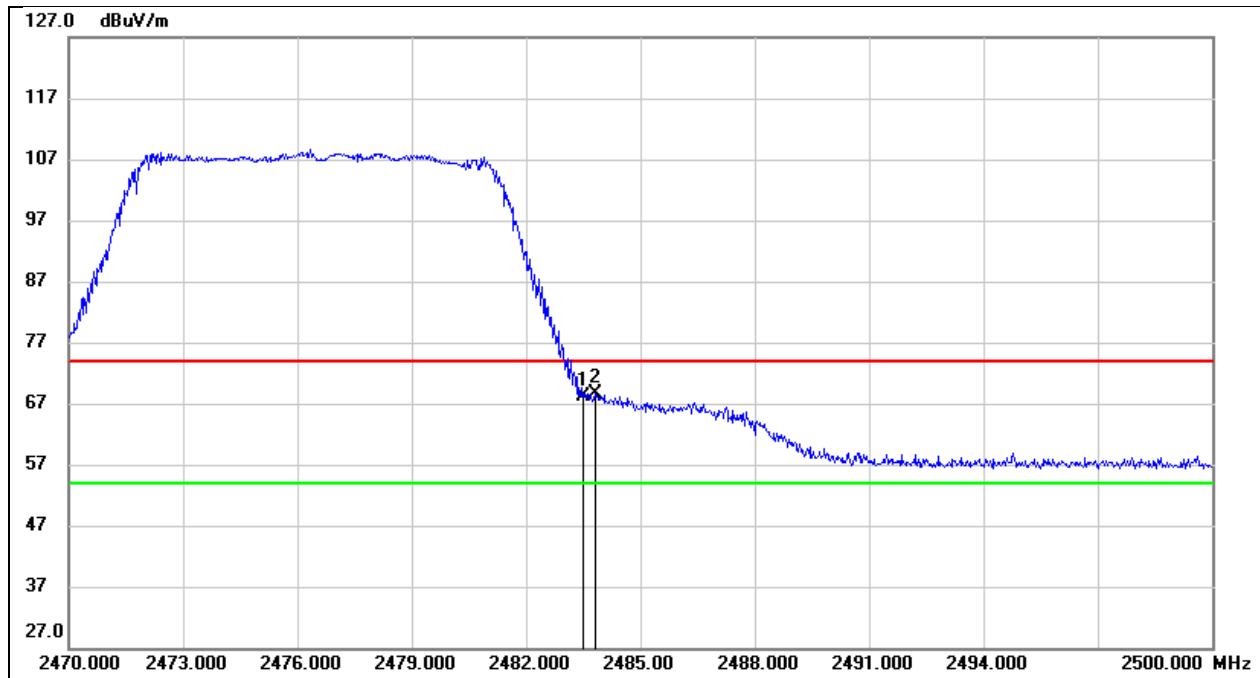
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	34.57	32.44	67.01	74.00	-6.99	peak
2	2483.725	36.15	32.44	68.59	74.00	-5.41	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2475.5
Polarity:	Vertical	Test Voltage:	DC 5 V



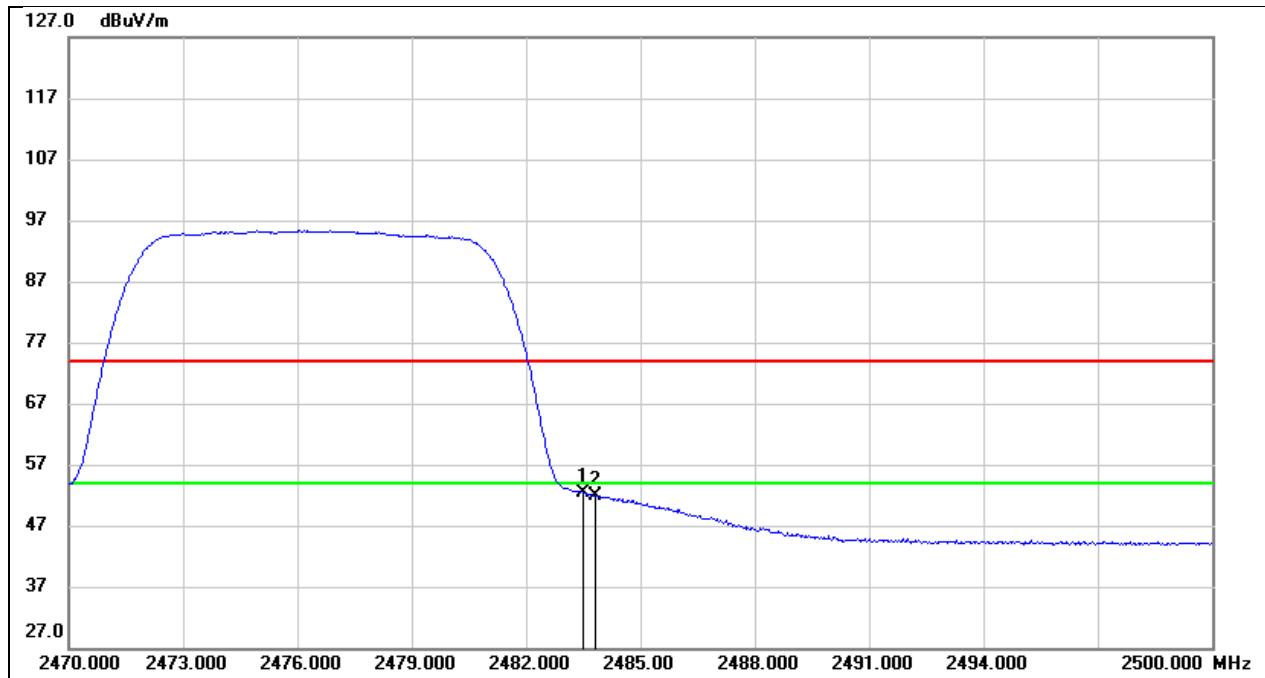
No.	Frequency (MHz)	Reading (dB _{UV})	Correct (dB/m)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Remark
1	2483.500	20.18	32.44	52.62	54.00	-1.38	AVG
2	2483.725	19.77	32.44	52.21	54.00	-1.79	AVG

Test Mode:	SRD 10MHz PK	Frequency(MHz):	2476.5
Polarity:	Vertical	Test Voltage:	DC 5 V



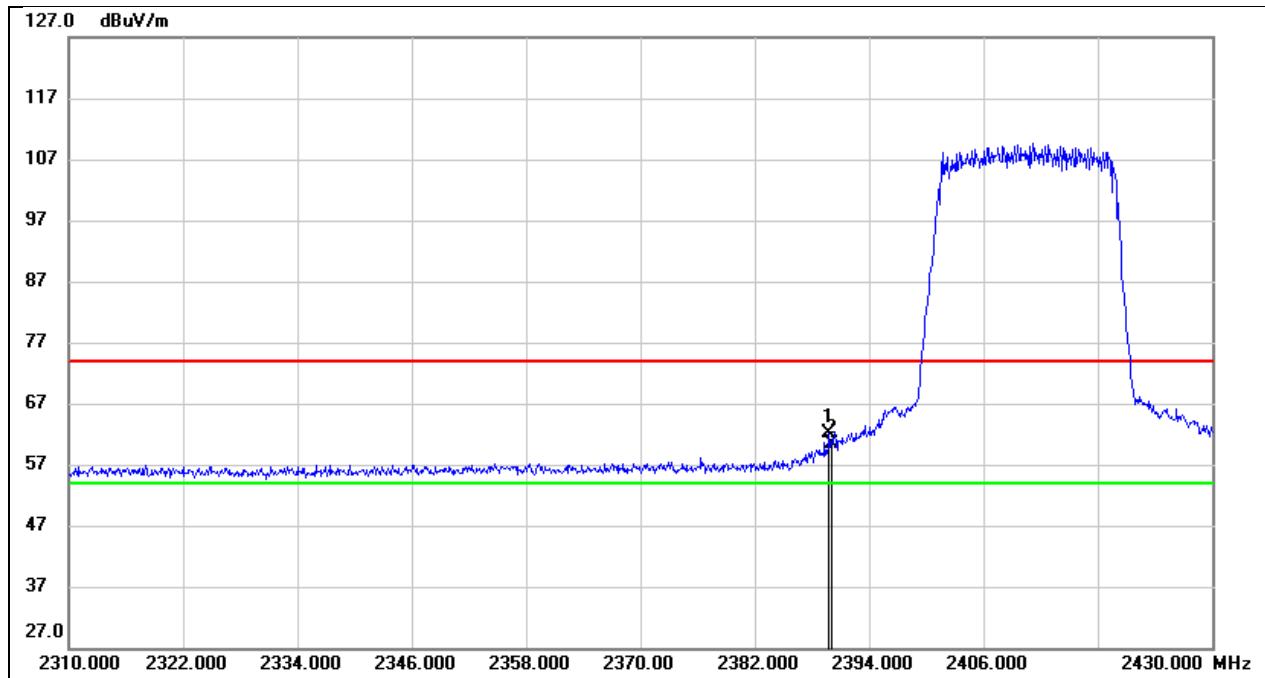
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	35.60	32.44	68.04	74.00	-5.96	peak
2	2483.800	36.27	32.44	68.71	74.00	-5.29	peak

Test Mode:	SRD 10MHz AV	Frequency(MHz):	2476.5
Polarity:	Vertical	Test Voltage:	DC 5 V



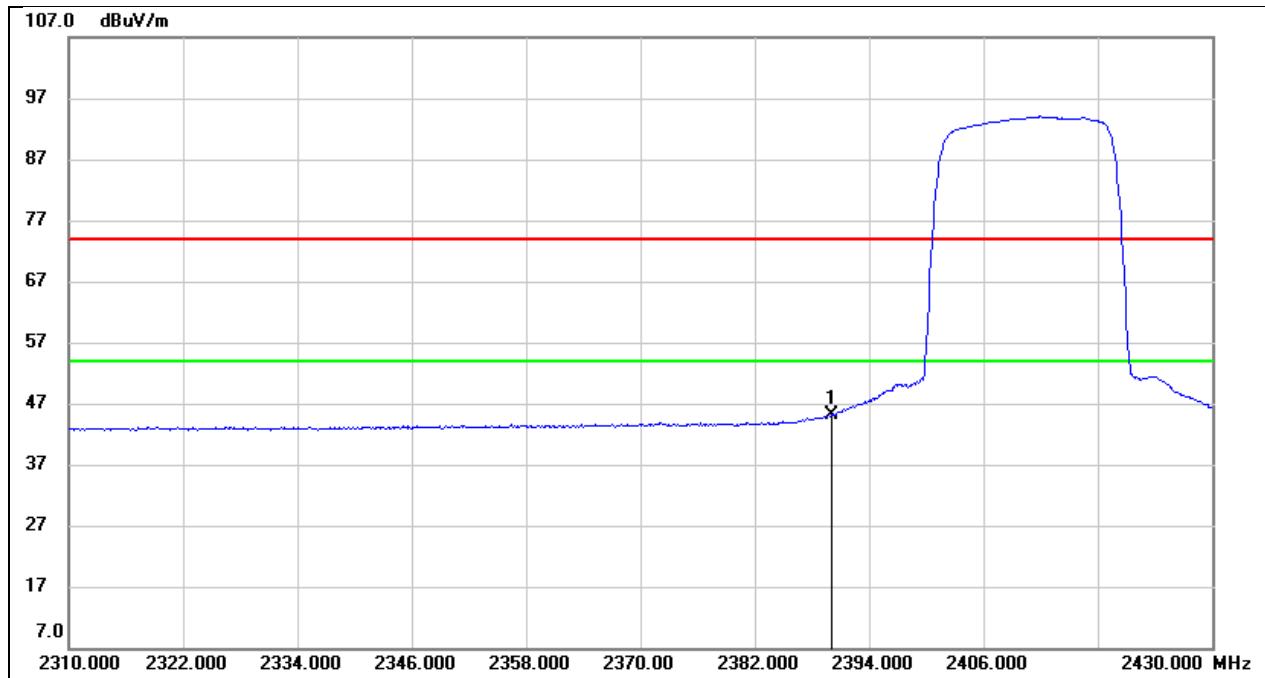
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.95	32.44	52.39	54.00	-1.61	AVG
2	2483.800	19.42	32.44	51.86	54.00	-2.14	AVG

Test Mode:	SRD 20MHz PK	Frequency(MHz):	2410.5
Polarity:	Vertical	Test Voltage:	DC 5 V



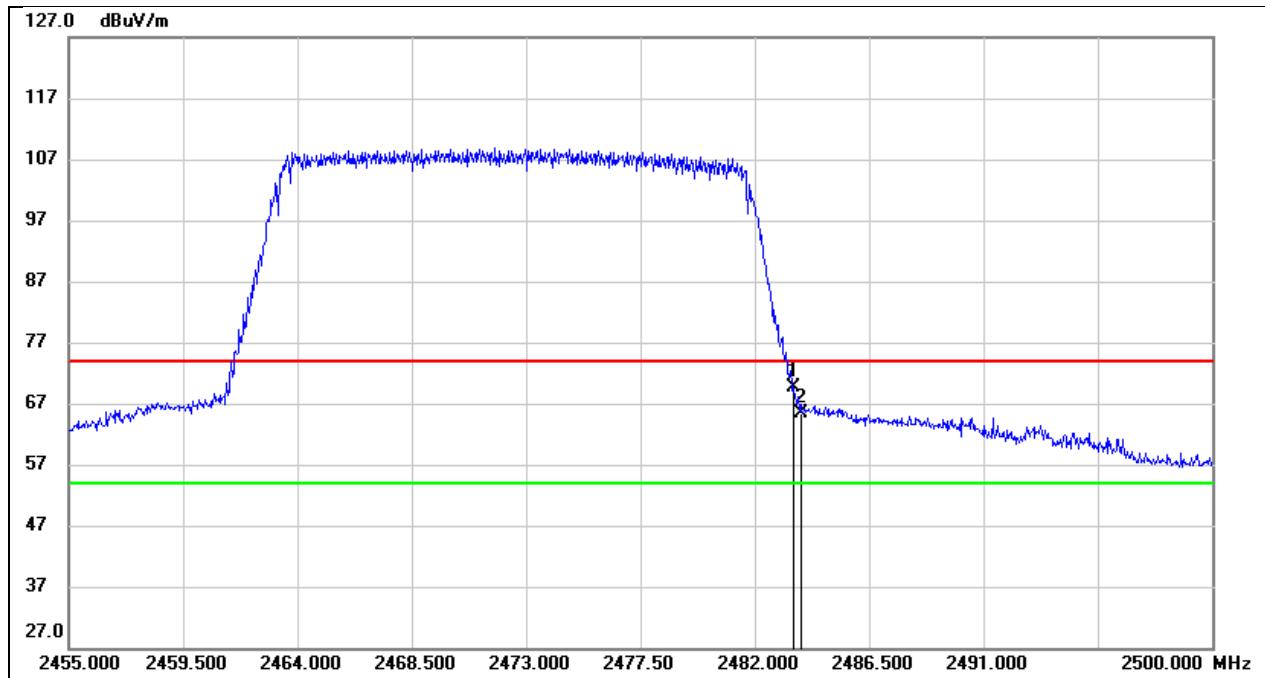
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.800	30.04	32.16	62.20	74.00	-11.80	peak
2	2390.000	28.17	32.16	60.33	74.00	-13.67	peak

Test Mode:	SRD 20MHz AV	Frequency(MHz):	2410.5
Polarity:	Vertical	Test Voltage:	DC 5 V



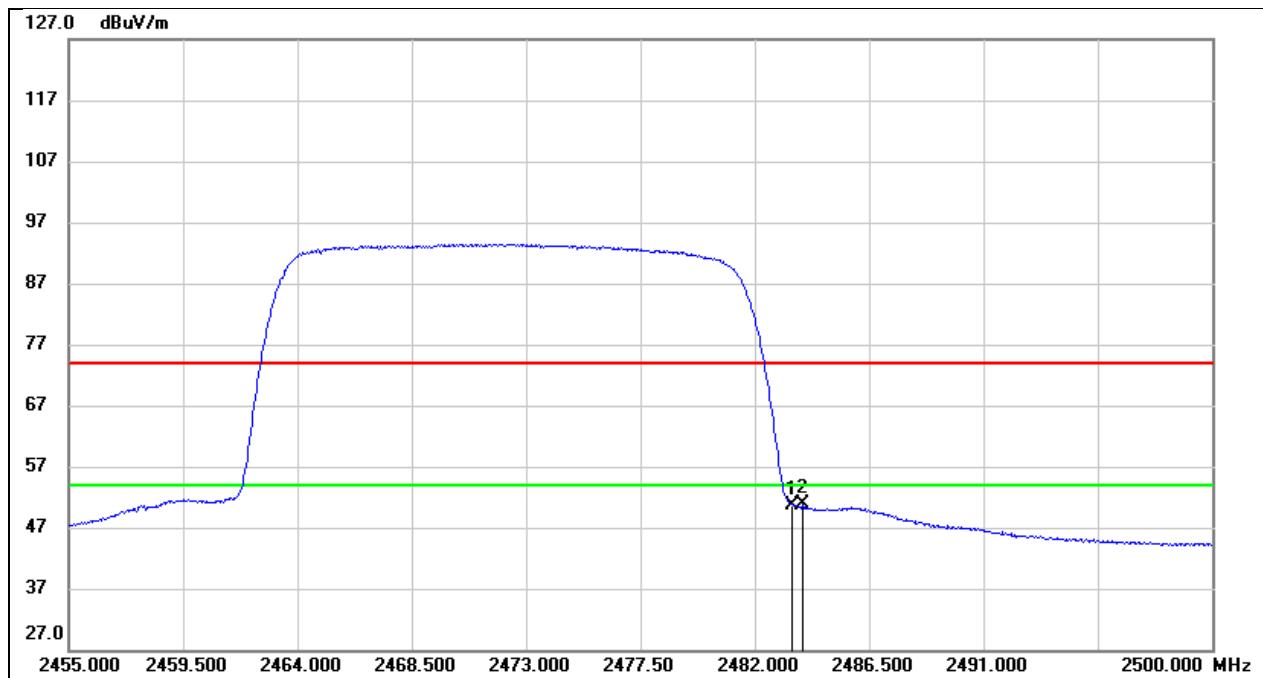
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	12.90	32.16	45.06	54.00	-8.94	AVG

Test Mode:	SRD 20MHz PK	Frequency(MHz):	2472.5
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.09	32.44	69.53	74.00	-4.47	peak
2	2483.890	32.84	32.44	65.28	74.00	-8.72	peak

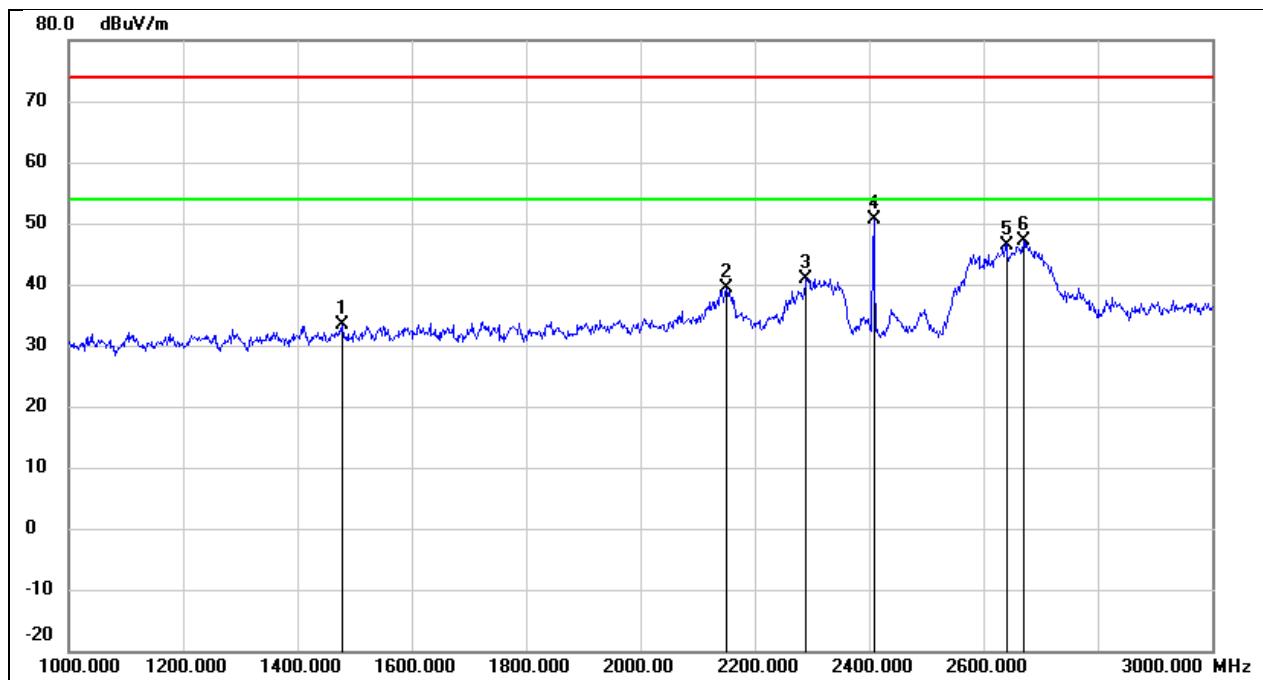
Test Mode:	SRD 20MHz AV	Frequency(MHz):	2472.5
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	18.31	32.44	50.75	54.00	-3.25	AVG
2	2483.890	18.32	32.44	50.76	54.00	-3.24	AVG

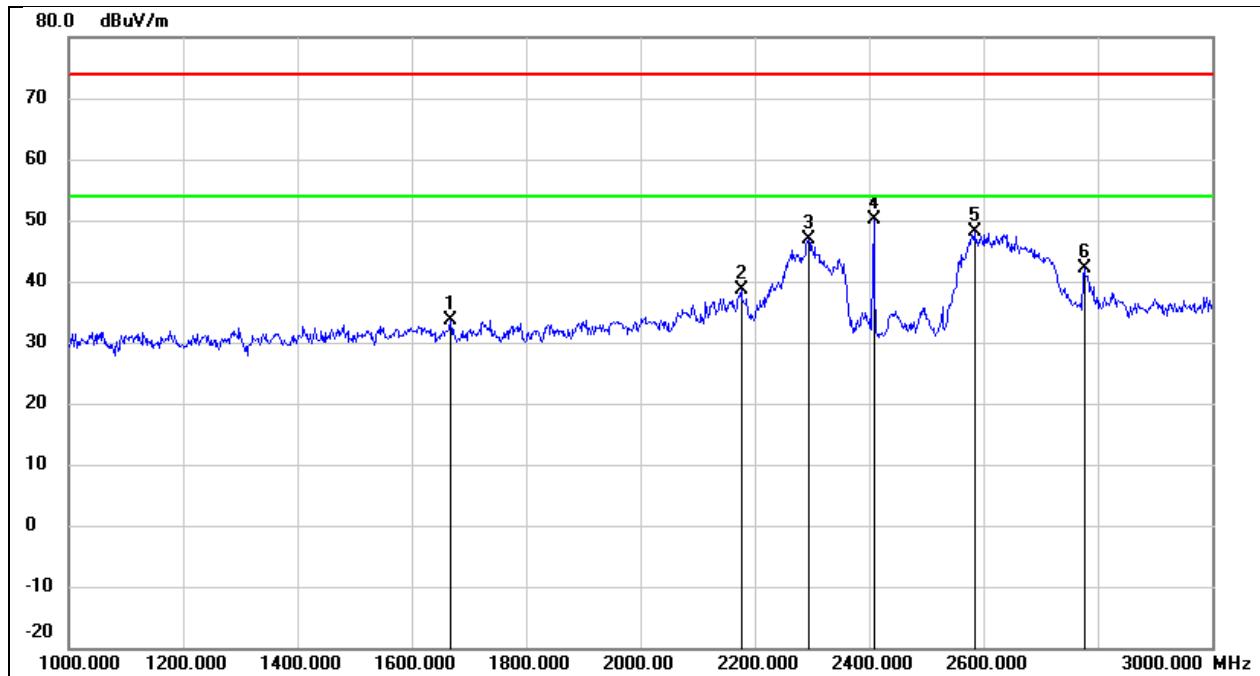
8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

Test Mode:	SRD 3MHz	Frequency(MHz):	2417.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



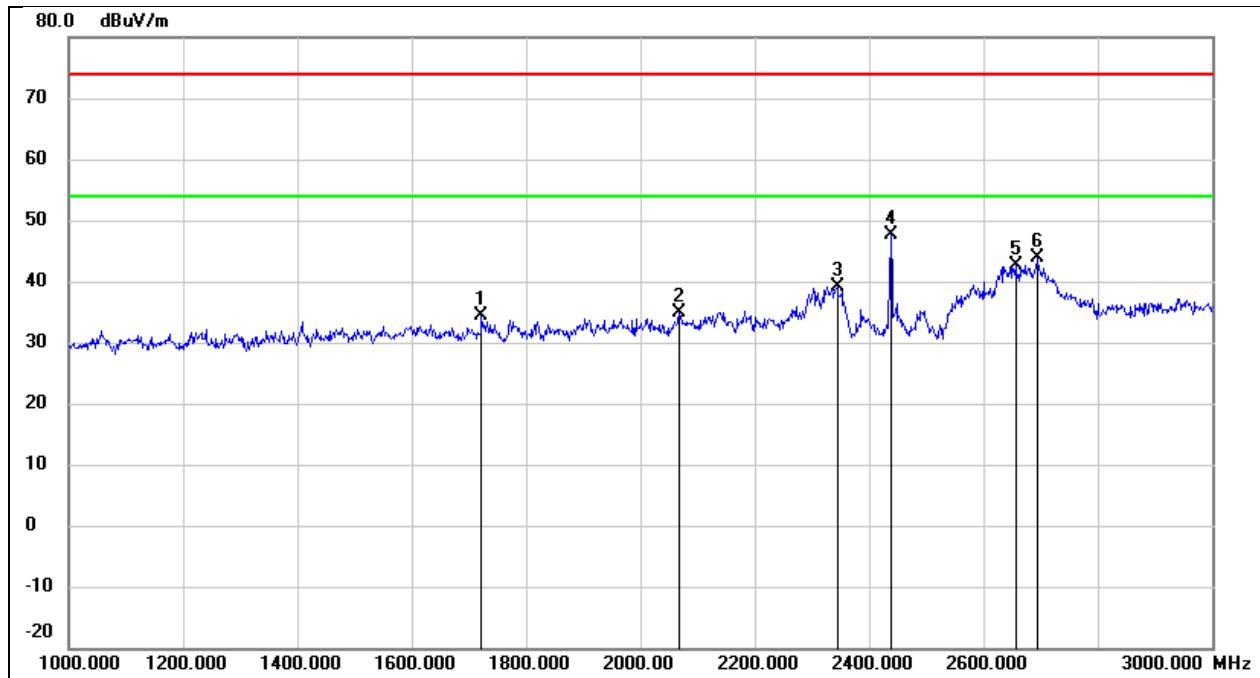
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1478.000	46.26	-12.81	33.45	74.00	-40.55	peak
2	2150.000	49.62	-10.28	39.34	74.00	-34.66	peak
3	2290.000	50.57	-9.58	40.99	74.00	-33.01	peak
4	2417.500	59.49	-8.96	50.53	/	/	Fundamental
5	2640.000	54.29	-7.79	46.50	74.00	-27.50	peak
6	2670.000	54.86	-7.63	47.23	74.00	-26.77	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2417.5
Polarity:	Vertical	Test Voltage:	DC 5 V



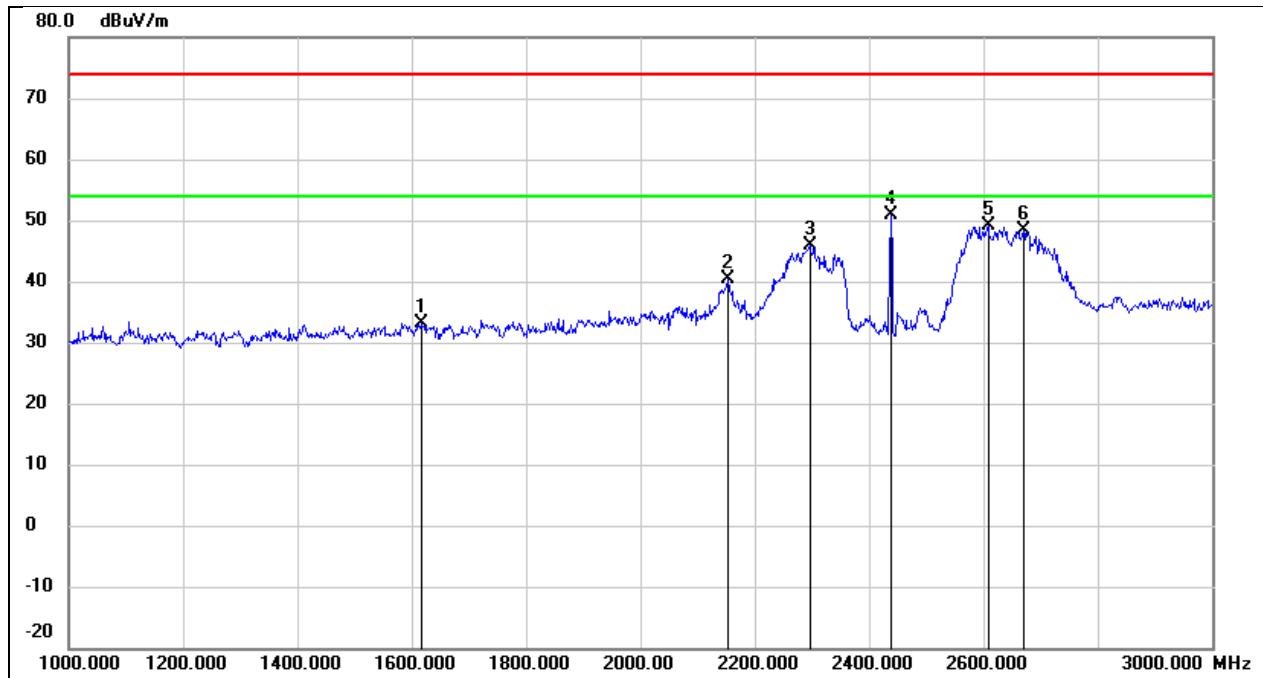
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1668.000	45.83	-12.16	33.67	74.00	-40.33	peak
2	2176.000	48.69	-10.16	38.53	74.00	-35.47	peak
3	2294.000	56.35	-9.55	46.80	74.00	-27.20	peak
4	2417.500	58.98	-8.96	50.02	/	/	Fundamental
5	2584.000	56.08	-8.07	48.01	74.00	-25.99	peak
6	2776.000	49.29	-7.10	42.19	74.00	-31.81	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2438.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



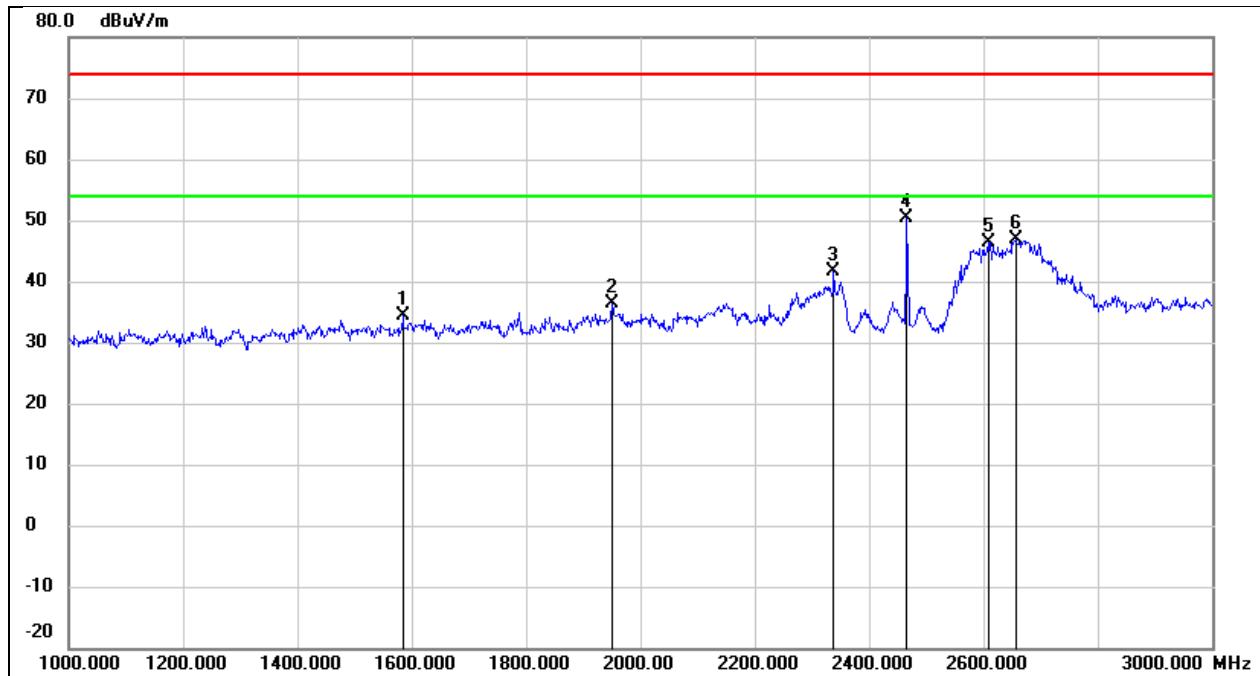
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1722.000	46.29	-11.98	34.31	74.00	-39.69	peak
2	2068.000	45.63	-10.70	34.93	74.00	-39.07	peak
3	2344.000	48.49	-9.30	39.19	74.00	-34.81	peak
4	2438.500	56.32	-8.80	47.52	/	/	Fundamental
5	2656.000	50.33	-7.71	42.62	74.00	-31.38	peak
6	2694.000	51.50	-7.51	43.99	74.00	-30.01	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2438.5
Polarity:	Vertical	Test Voltage:	DC 5 V



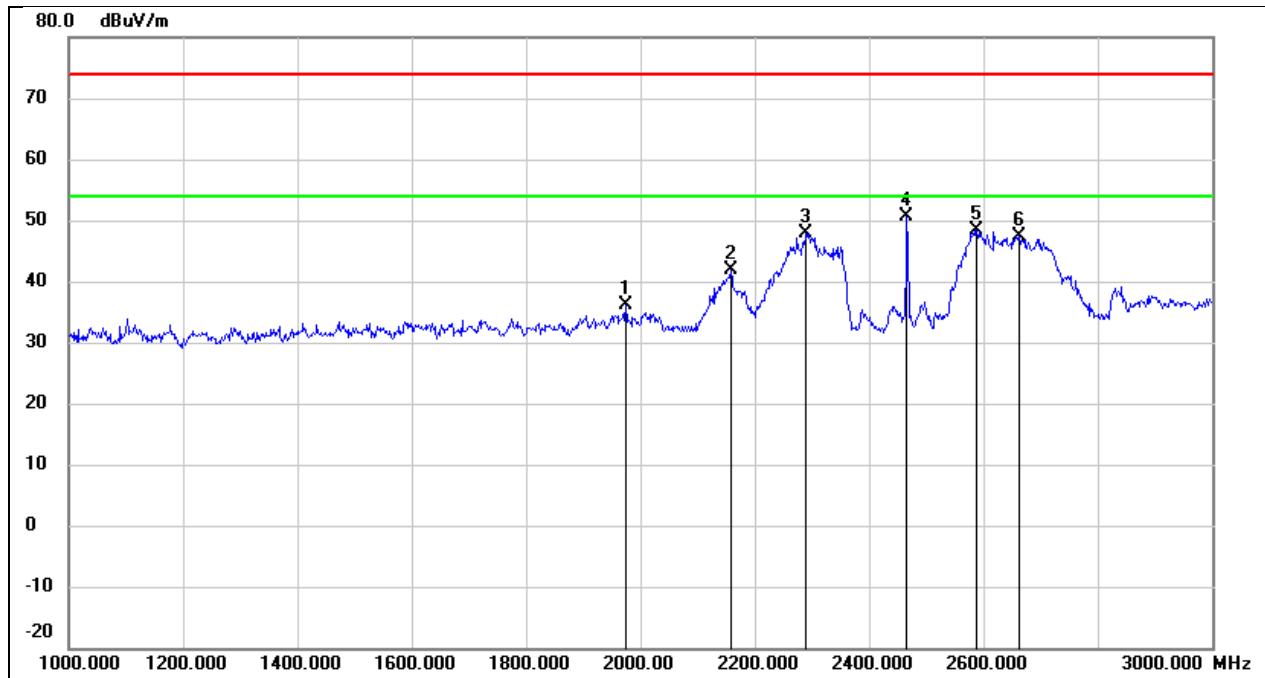
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1616.000	45.56	-12.33	33.23	74.00	-40.77	peak
2	2154.000	50.69	-10.27	40.42	74.00	-33.58	peak
3	2296.000	55.38	-9.54	45.84	74.00	-28.16	peak
4	2438.500	59.77	-8.80	50.97	/	/	Fundamental
5	2608.000	57.04	-7.95	49.09	74.00	-24.91	peak
6	2670.000	56.02	-7.63	48.39	74.00	-25.61	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2456.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1584.000	46.75	-12.43	34.32	74.00	-39.68	peak
2	1950.000	47.65	-11.22	36.43	74.00	-37.57	peak
3	2338.000	50.98	-9.32	41.66	74.00	-32.34	peak
4	2456.500	59.08	-8.66	50.42	/	/	Fundamental
5	2608.000	54.37	-7.95	46.42	74.00	-27.58	peak
6	2656.000	54.54	-7.71	46.83	74.00	-27.17	peak

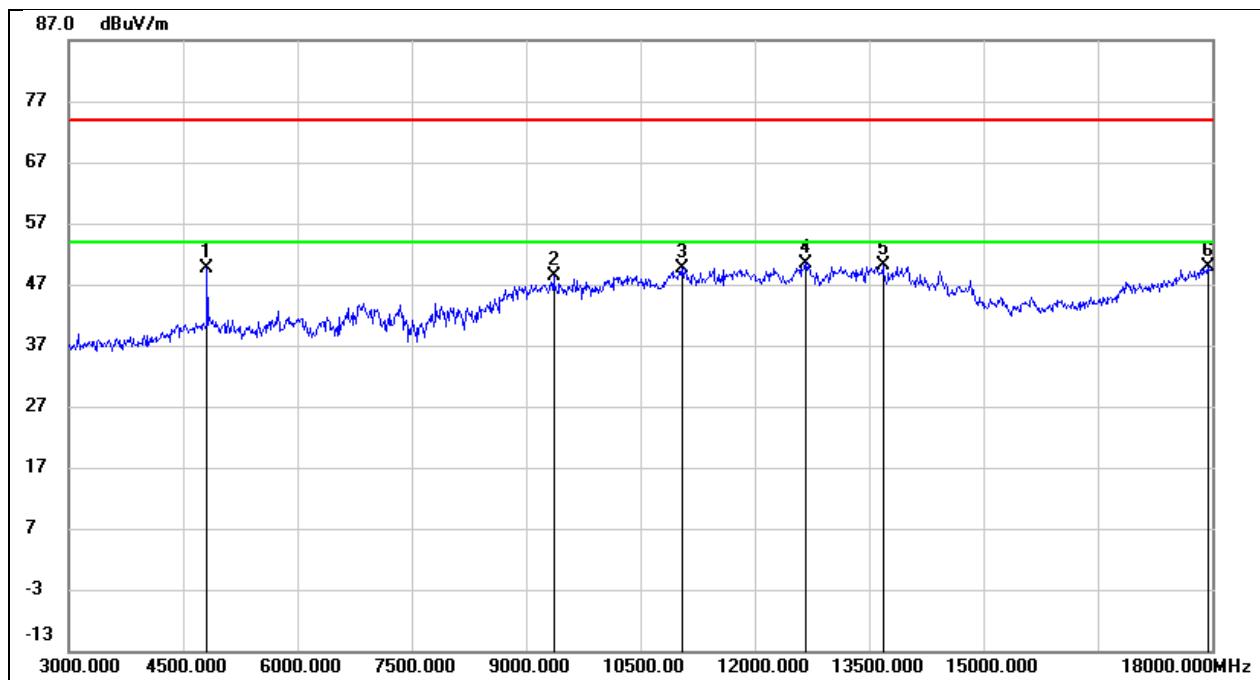
Test Mode:	SRD 3MHz	Frequency(MHz):	2456.5
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1974.000	47.32	-11.14	36.18	74.00	-37.82	peak
2	2158.000	52.15	-10.25	41.90	74.00	-32.10	peak
3	2290.000	57.53	-9.58	47.95	74.00	-26.05	peak
4	2456.500	59.23	-8.66	50.57	/	/	Fundamental
5	2588.000	56.53	-8.05	48.48	74.00	-25.52	peak
6	2662.000	54.98	-7.68	47.30	74.00	-26.70	peak

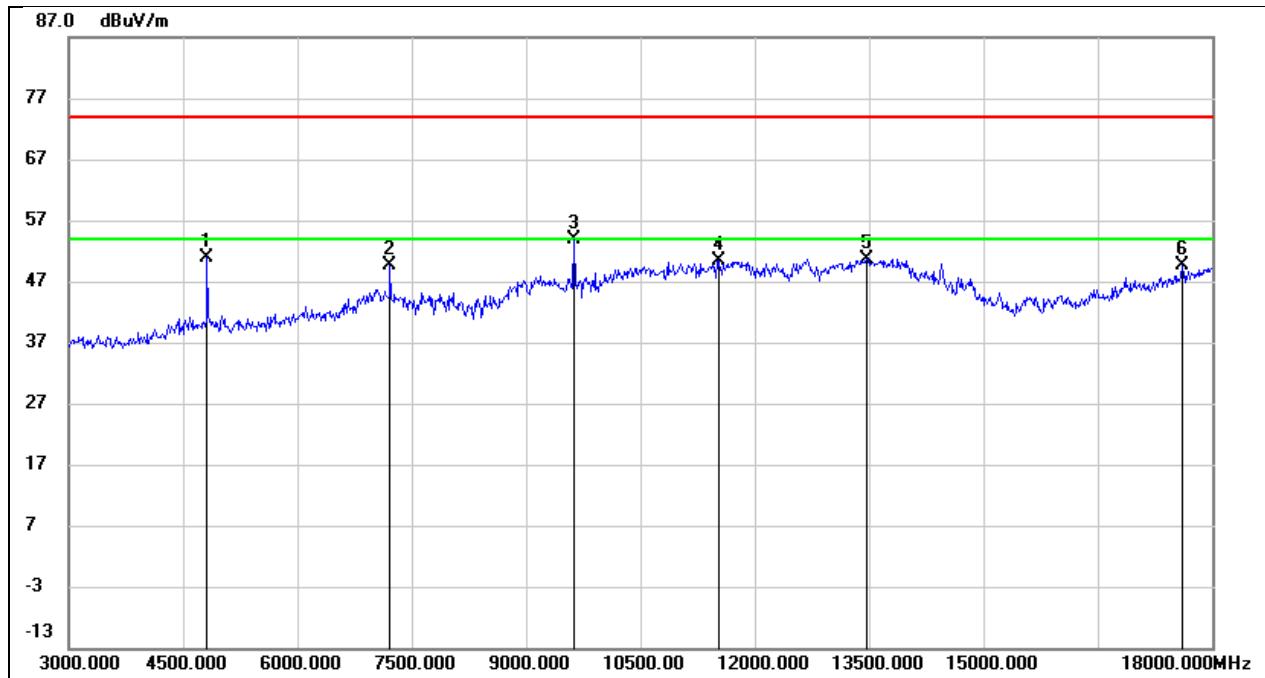
8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

Test Mode:	SRD 1.4MHz	Frequency(MHz):	2407.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



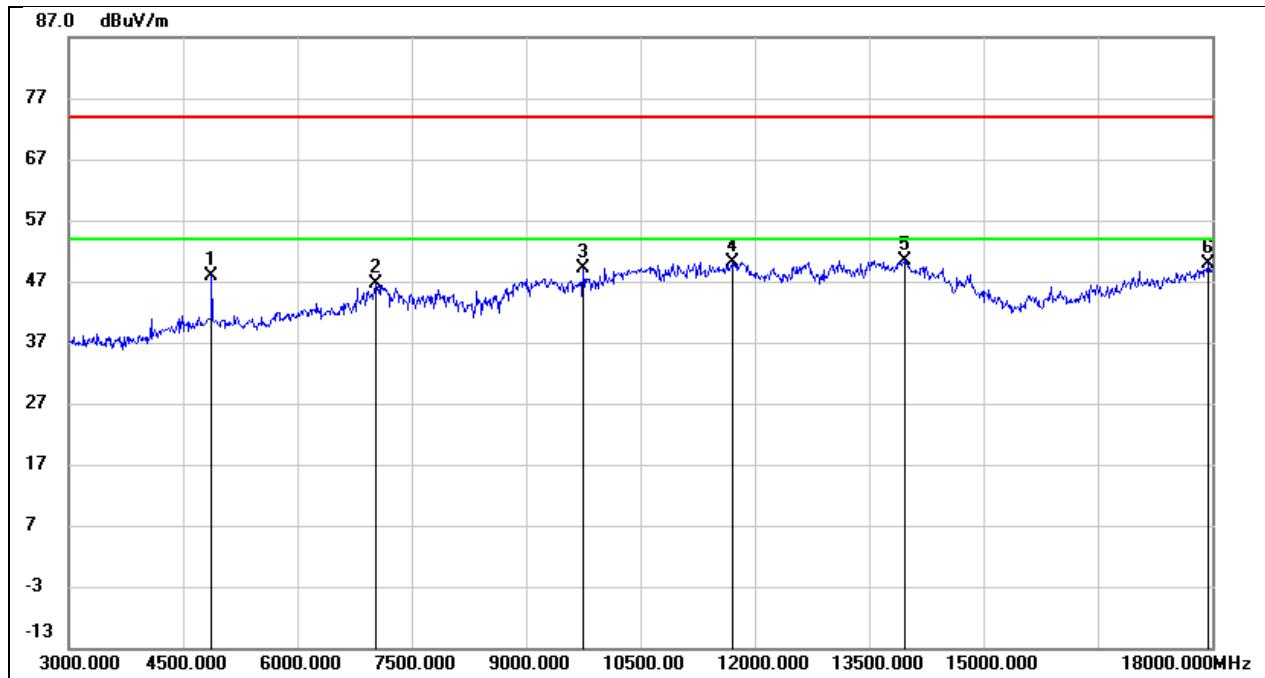
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	49.94	-0.26	49.68	74.00	-24.32	peak
2	9360.000	37.62	10.64	48.26	74.00	-25.74	peak
3	11040.000	34.75	14.91	49.66	74.00	-24.34	peak
4	12660.000	32.55	17.95	50.50	74.00	-23.50	peak
5	13680.000	28.88	21.29	50.17	74.00	-23.83	peak
6	17940.000	24.58	25.34	49.92	74.00	-24.08	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	2407.5
Polarity:	Vertical	Test Voltage:	DC 5 V



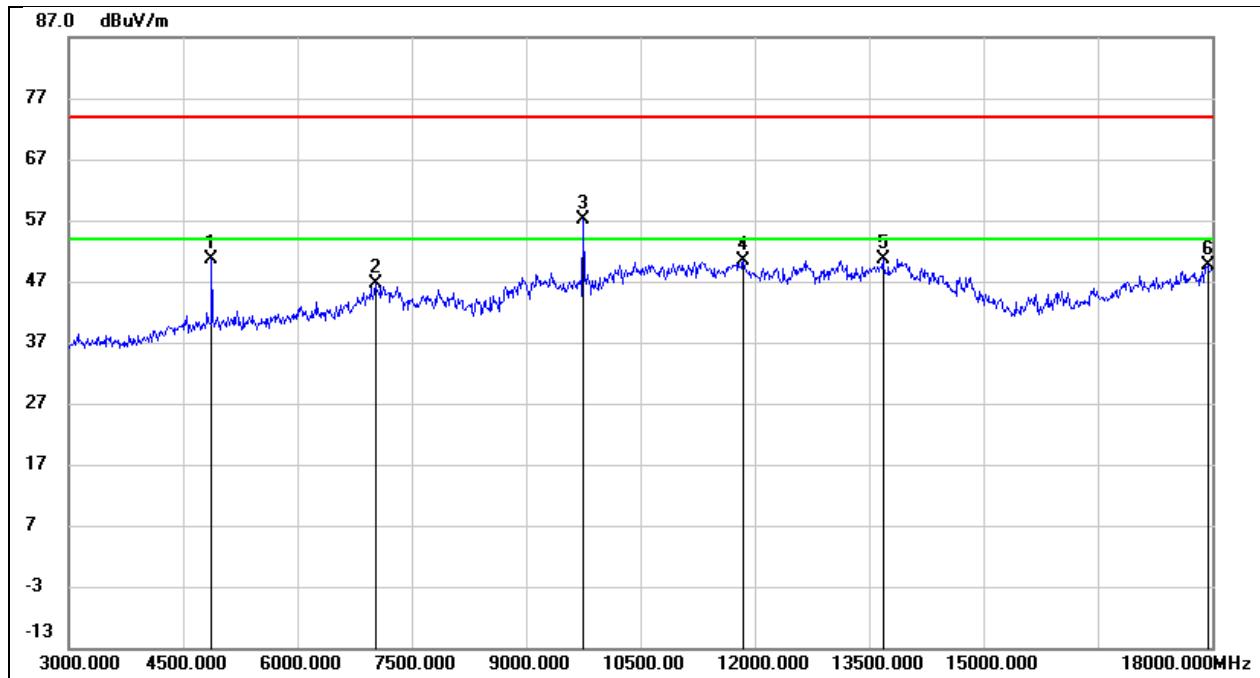
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	51.02	-0.26	50.76	74.00	-23.24	peak
2	7215.000	42.99	6.54	49.53	74.00	-24.47	peak
3	9630.000	42.96	11.03	53.99	74.00	-20.01	peak
4	11520.000	33.65	16.65	50.30	74.00	-23.70	peak
5	13470.000	29.92	20.77	50.69	74.00	-23.31	peak
6	17610.000	26.28	23.38	49.66	74.00	-24.34	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	2437.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



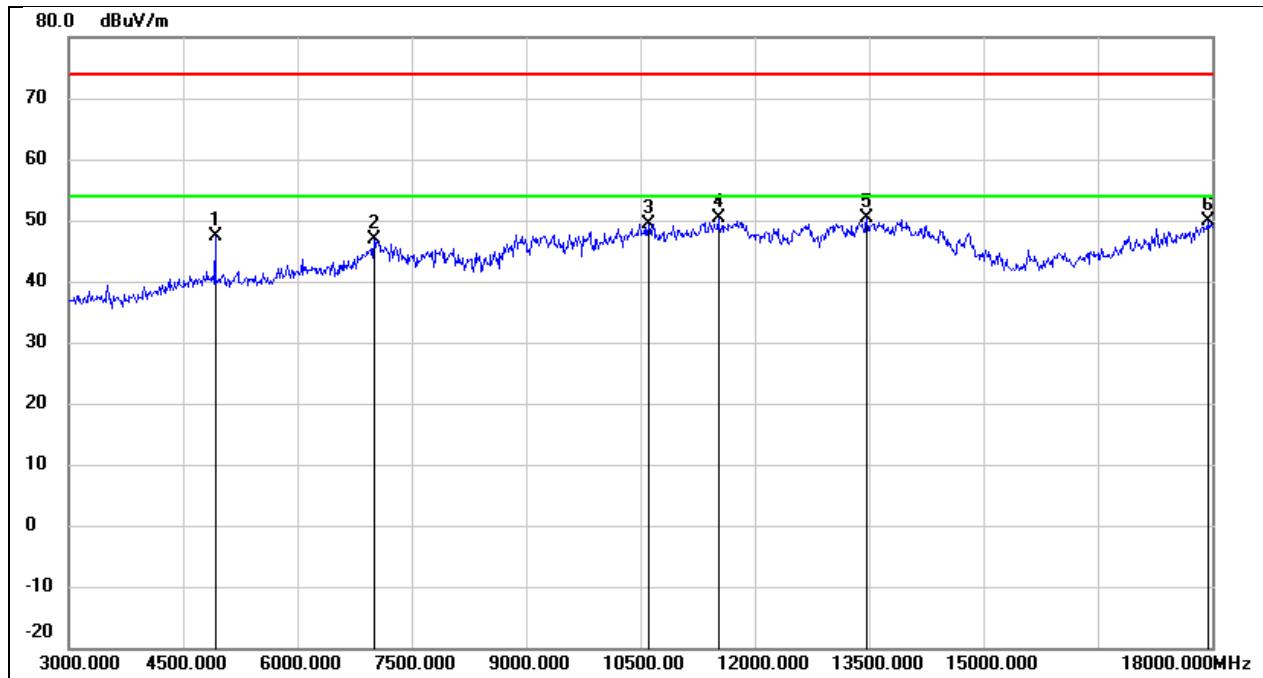
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	47.84	-0.03	47.81	74.00	-26.19	peak
2	7035.000	39.96	6.67	46.63	74.00	-27.37	peak
3	9750.000	37.85	11.35	49.20	74.00	-24.80	peak
4	11700.000	33.03	17.14	50.17	74.00	-23.83	peak
5	13965.000	28.54	21.89	50.43	74.00	-23.57	peak
6	17955.000	24.45	25.42	49.87	74.00	-24.13	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	2437.5
Polarity:	Vertical	Test Voltage:	DC 5 V



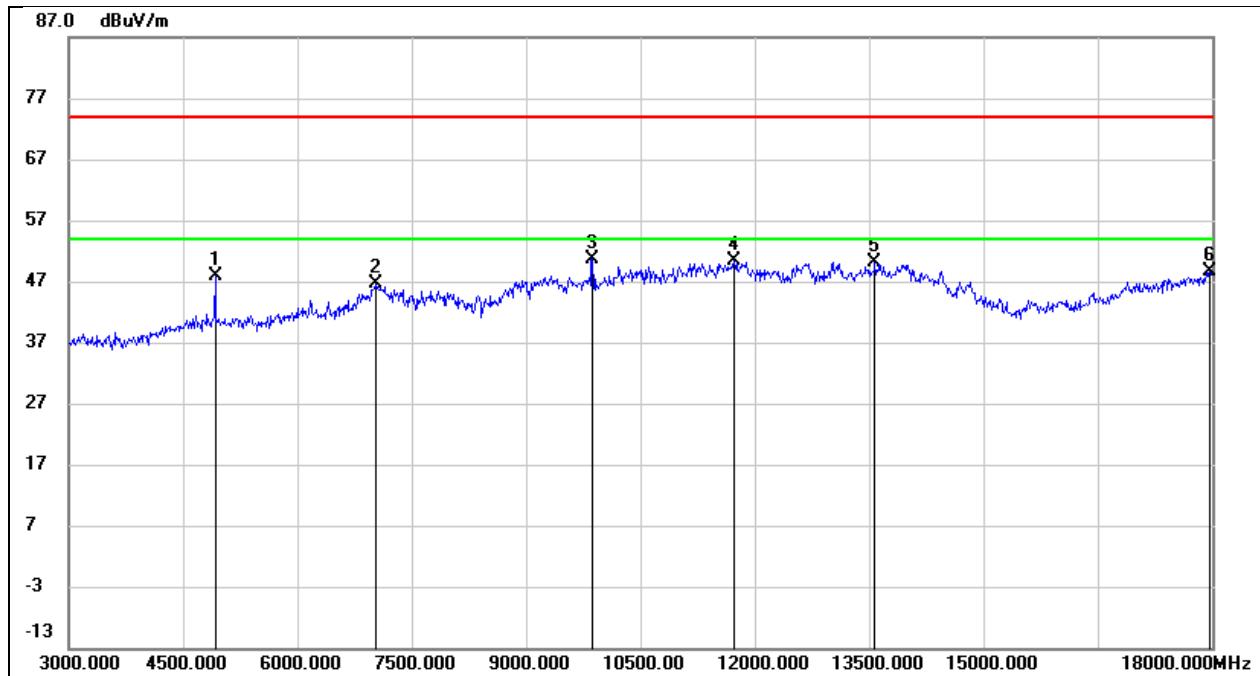
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	50.55	-0.03	50.52	74.00	-23.48	peak
2	7020.000	39.84	6.67	46.51	74.00	-27.49	peak
3	9750.000	45.81	11.35	57.16	74.00	-16.84	peak
4	11850.000	32.91	17.56	50.47	74.00	-23.53	peak
5	13680.000	29.44	21.29	50.73	74.00	-23.27	peak
6	17940.000	24.35	25.34	49.69	74.00	-24.31	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	2465.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



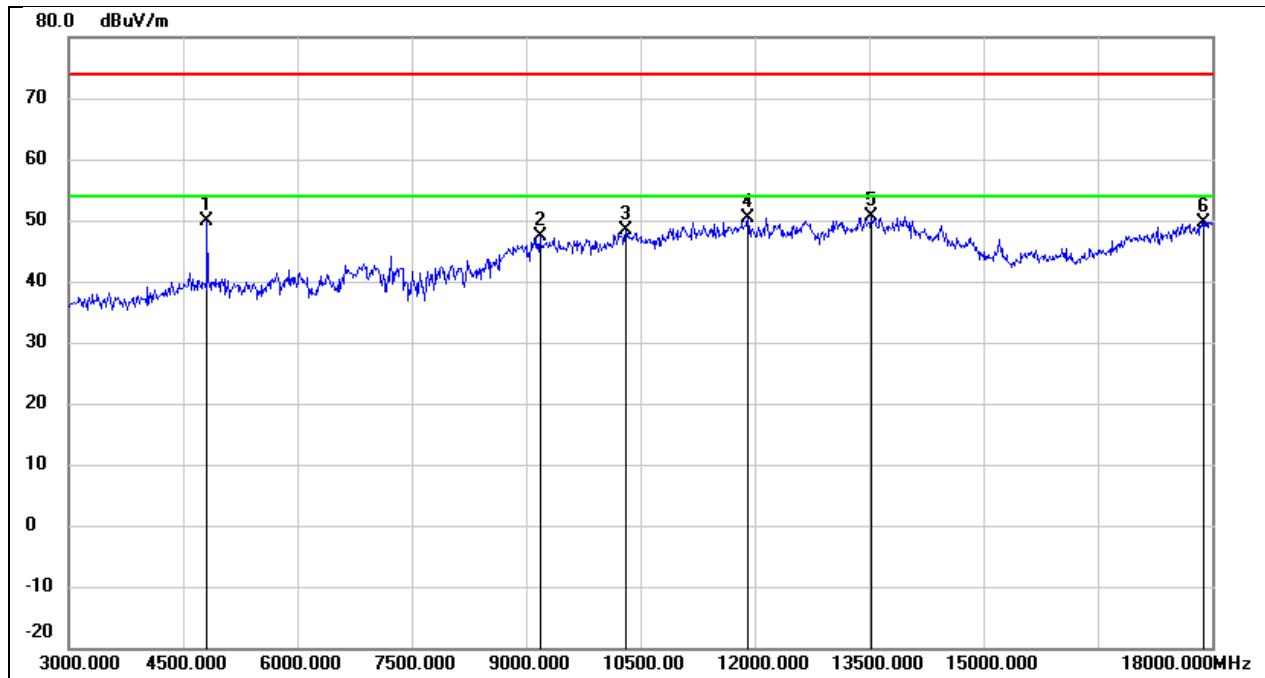
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	47.25	0.14	47.39	74.00	-26.61	peak
2	7005.000	40.17	6.69	46.86	74.00	-27.14	peak
3	10605.000	36.13	13.37	49.50	74.00	-24.50	peak
4	11520.000	33.84	16.65	50.49	74.00	-23.51	peak
5	13470.000	29.51	20.77	50.28	74.00	-23.72	peak
6	17940.000	24.56	25.34	49.90	74.00	-24.10	peak

Test Mode:	SRD 1.4MHz	Frequency(MHz):	2465.5
Polarity:	Vertical	Test Voltage:	DC 5 V



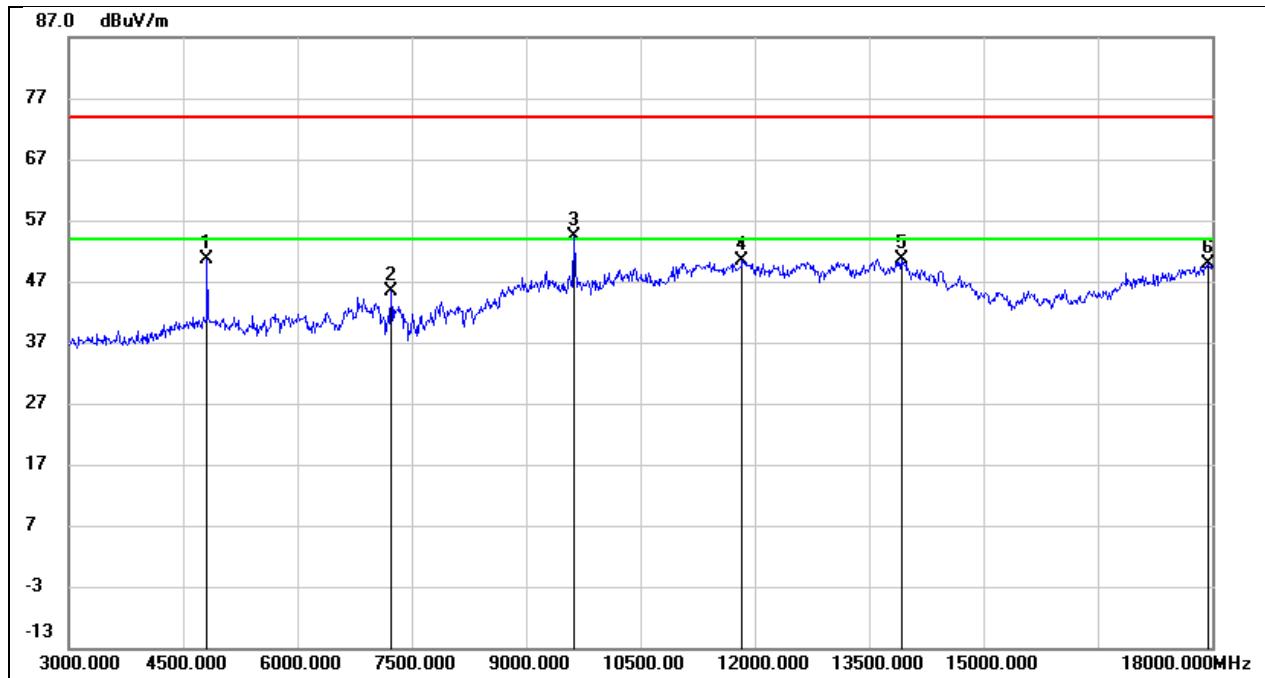
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	47.71	0.14	47.85	74.00	-26.15	peak
2	7020.000	40.06	6.67	46.73	74.00	-27.27	peak
3	9870.000	39.05	11.67	50.72	74.00	-23.28	peak
4	11730.000	33.28	17.22	50.50	74.00	-23.50	peak
5	13575.000	29.14	21.06	50.20	74.00	-23.80	peak
6	17970.000	23.17	25.51	48.68	74.00	-25.32	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	2409.12
Polarity:	Horizontal	Test Voltage:	DC 5 V



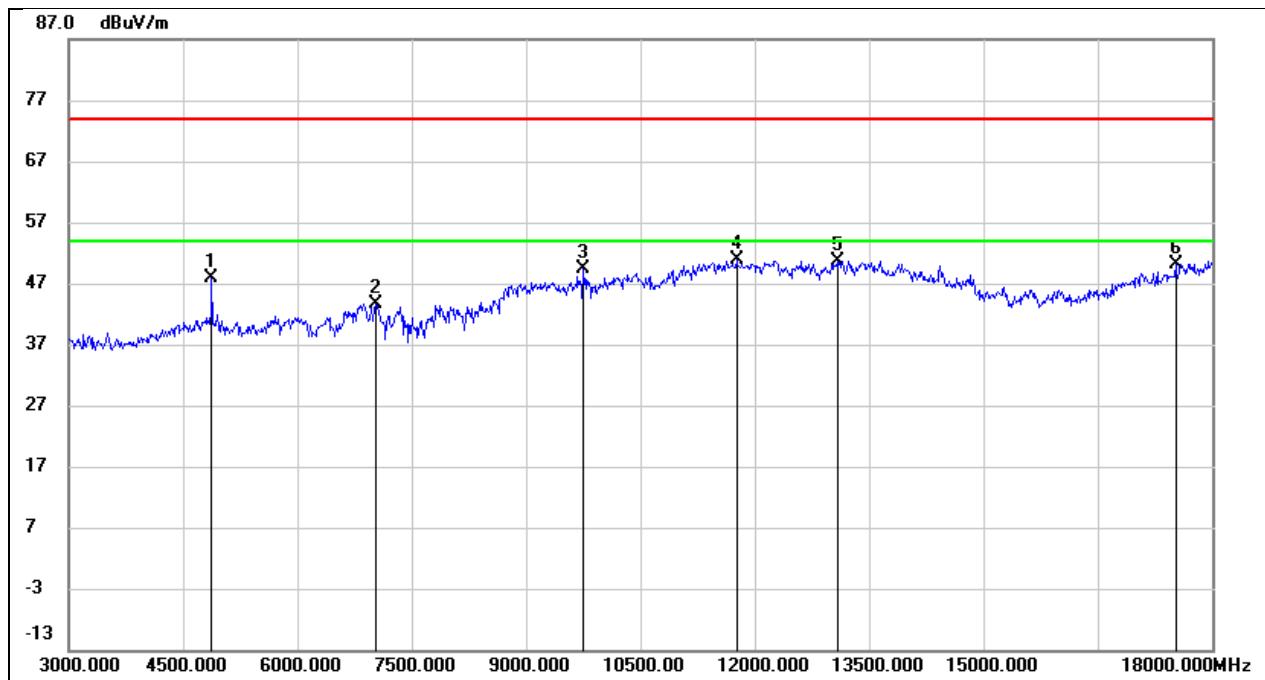
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	50.10	-0.26	49.84	74.00	-24.16	peak
2	9180.000	36.77	10.56	47.33	74.00	-26.67	peak
3	10305.000	35.83	12.61	48.44	74.00	-25.56	peak
4	11910.000	32.59	17.72	50.31	74.00	-23.69	peak
5	13530.000	29.79	20.96	50.75	74.00	-23.25	peak
6	17895.000	24.63	25.07	49.70	74.00	-24.30	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	2409.12
Polarity:	Vertical	Test Voltage:	DC 5 V



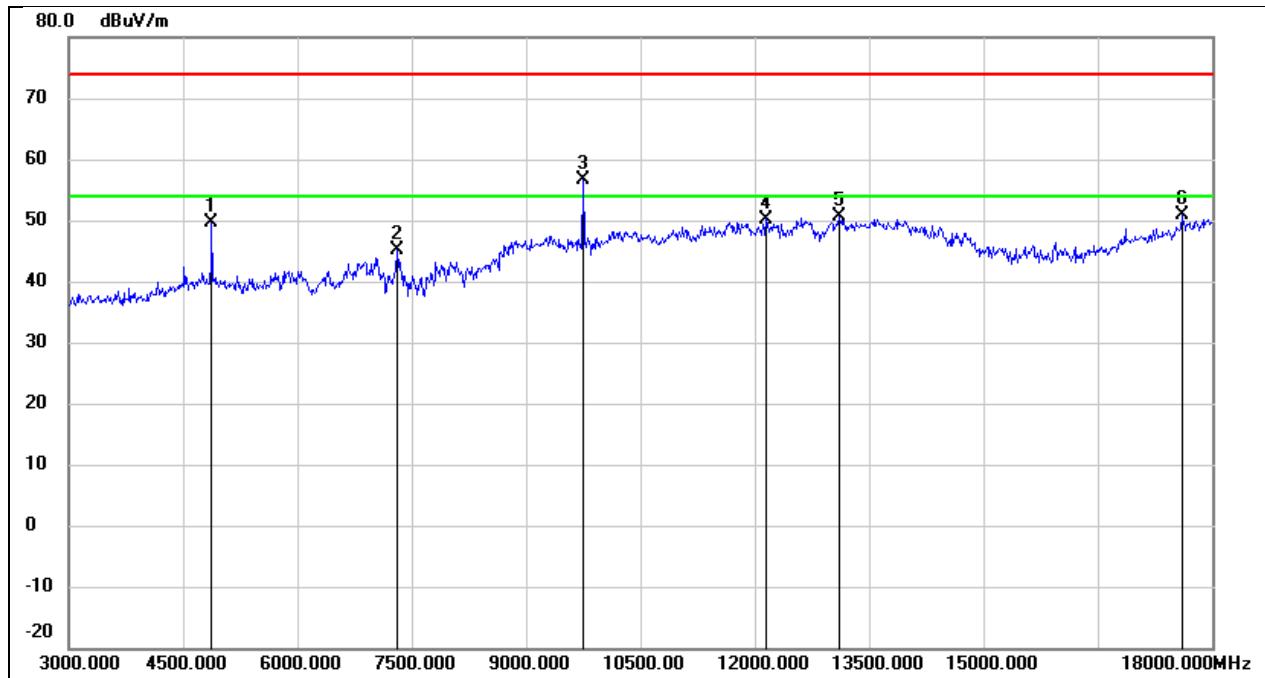
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	50.95	-0.26	50.69	74.00	-23.31	peak
2	7230.000	38.92	6.53	45.45	74.00	-28.55	peak
3	9630.000	43.35	11.03	54.38	74.00	-19.62	peak
4	11835.000	32.99	17.51	50.50	74.00	-23.50	peak
5	13920.000	28.88	21.79	50.67	74.00	-23.33	peak
6	17955.000	24.53	25.42	49.95	74.00	-24.05	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	2437.12
Polarity:	Horizontal	Test Voltage:	DC 5 V



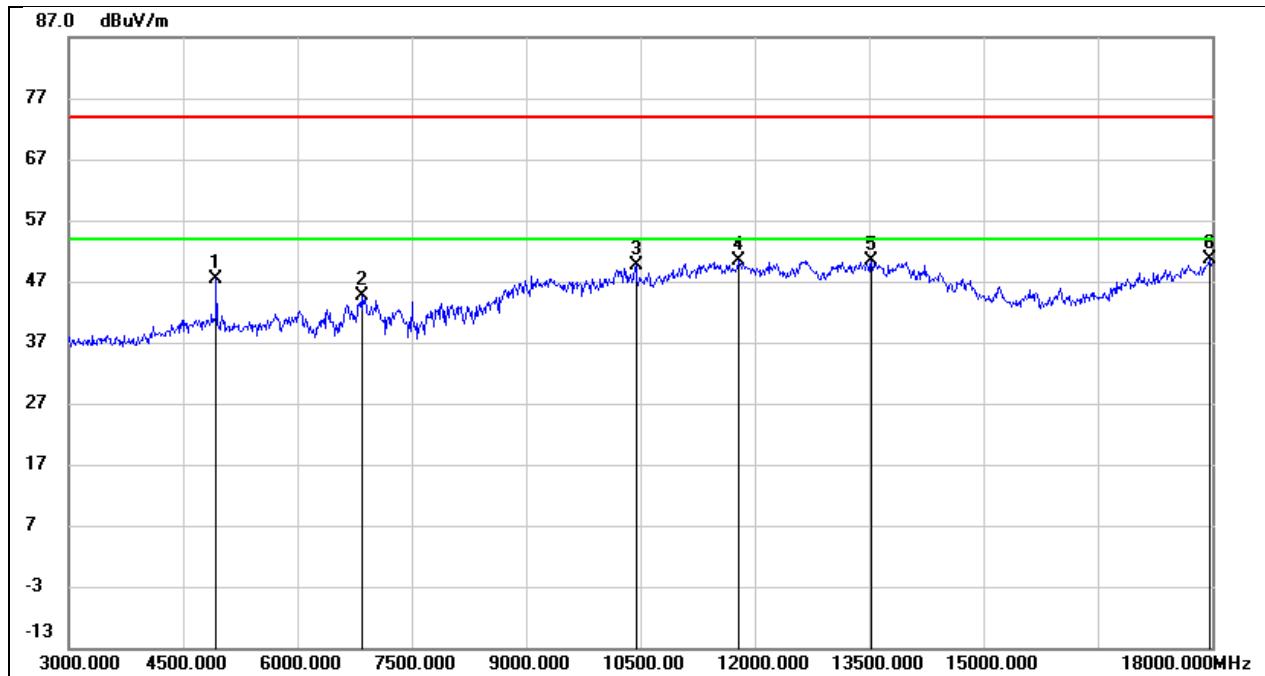
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	47.90	-0.03	47.87	74.00	-26.13	peak
2	7035.000	37.07	6.67	43.74	74.00	-30.26	peak
3	9750.000	38.15	11.35	49.50	74.00	-24.50	peak
4	11760.000	33.53	17.31	50.84	74.00	-23.16	peak
5	13080.000	31.66	19.07	50.73	74.00	-23.27	peak
6	17520.000	27.37	22.85	50.22	74.00	-23.78	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	2437.12
Polarity:	Vertical	Test Voltage:	DC 5 V



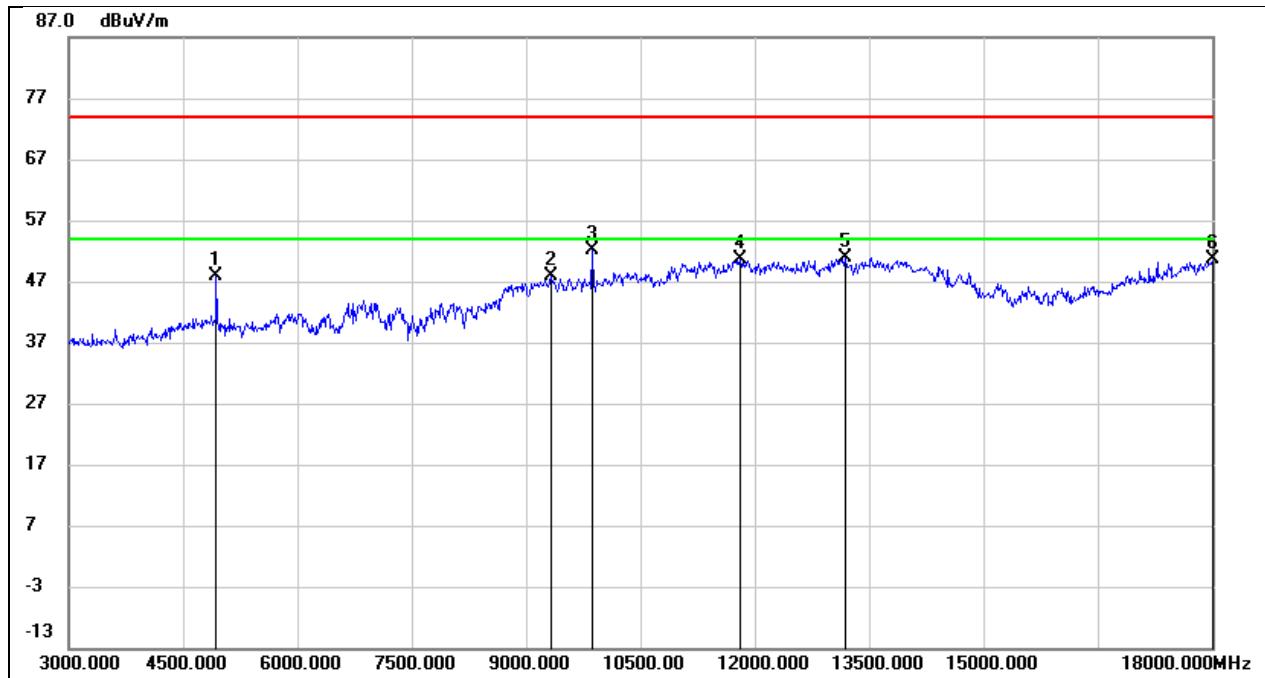
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	49.73	-0.03	49.70	74.00	-24.30	peak
2	7305.000	38.76	6.47	45.23	74.00	-28.77	peak
3	9750.000	45.21	11.35	56.56	74.00	-17.44	peak
4	12150.000	32.39	17.86	50.25	74.00	-23.75	peak
5	13110.000	31.38	19.20	50.58	74.00	-23.42	peak
6	17610.000	27.53	23.38	50.91	74.00	-23.09	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	2467.12
Polarity:	Horizontal	Test Voltage:	DC 5 V



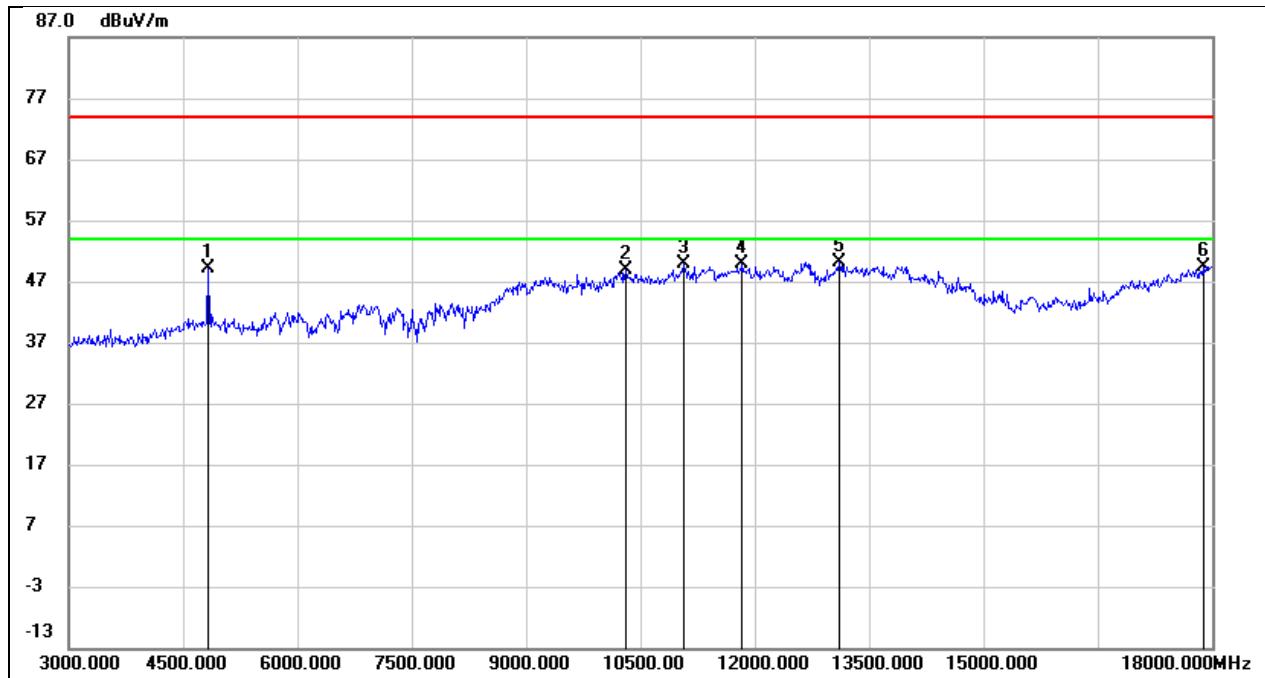
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	47.18	0.20	47.38	74.00	-26.62	peak
2	6840.000	38.65	5.89	44.54	74.00	-29.46	peak
3	10440.000	36.74	12.87	49.61	74.00	-24.39	peak
4	11790.000	32.95	17.38	50.33	74.00	-23.67	peak
5	13530.000	29.32	20.96	50.28	74.00	-23.72	peak
6	17970.000	25.06	25.51	50.57	74.00	-23.43	peak

Test Mode:	SRD 1.4MHz CA	Frequency(MHz):	2467.12
Polarity:	Vertical	Test Voltage:	DC 5 V



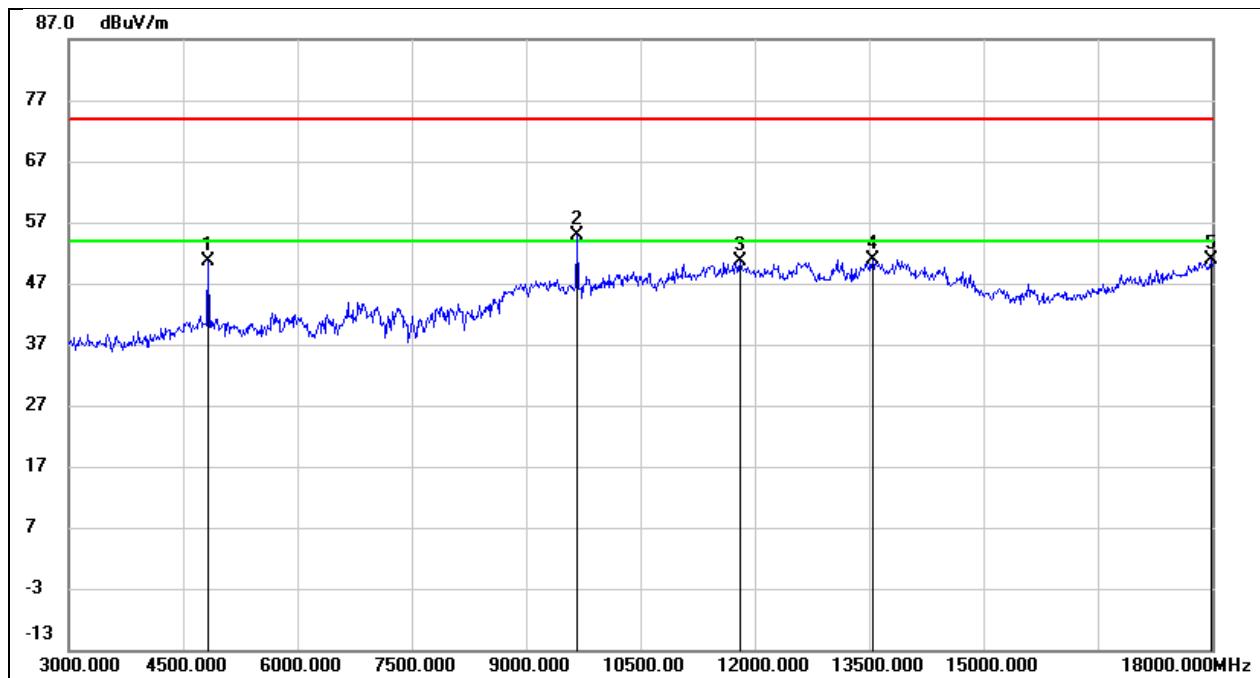
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	47.77	0.20	47.97	74.00	-26.03	peak
2	9330.000	37.29	10.62	47.91	74.00	-26.09	peak
3	9870.000	40.46	11.67	52.13	74.00	-21.87	peak
4	11805.000	33.08	17.43	50.51	74.00	-23.49	peak
5	13185.000	31.38	19.53	50.91	74.00	-23.09	peak
6	18000.000	24.85	25.69	50.54	74.00	-23.46	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2417.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



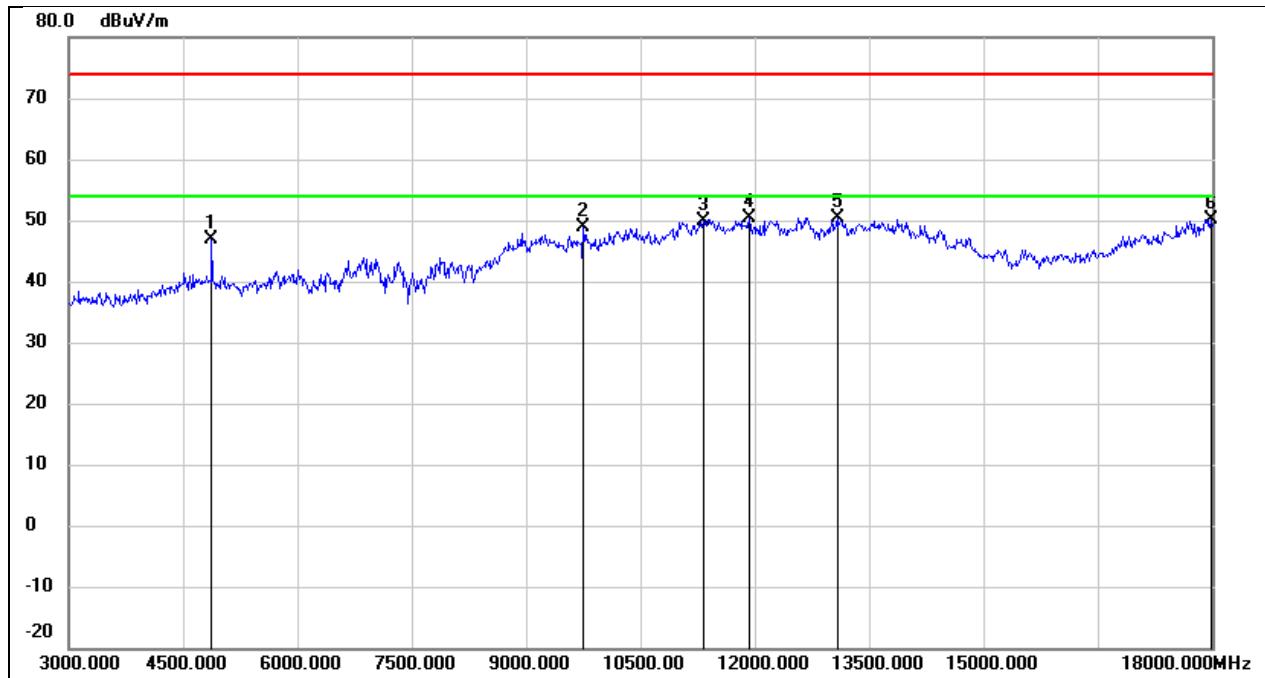
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	49.36	-0.20	49.16	74.00	-24.84	peak
2	10305.000	36.27	12.61	48.88	74.00	-25.12	peak
3	11070.000	34.78	15.03	49.81	74.00	-24.19	peak
4	11835.000	32.49	17.51	50.00	74.00	-24.00	peak
5	13110.000	30.97	19.20	50.17	74.00	-23.83	peak
6	17880.000	24.48	24.98	49.46	74.00	-24.54	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2417.5
Polarity:	Vertical	Test Voltage:	DC 5 V



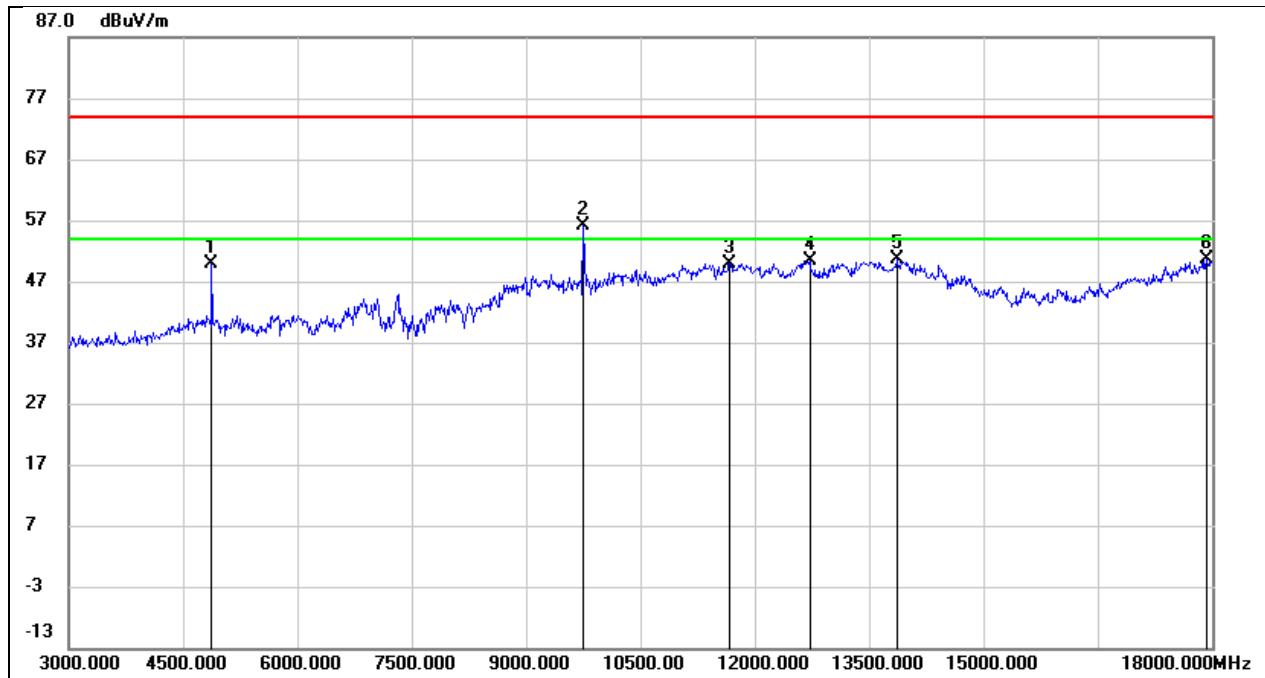
No.	Frequency (MHz)	Reading (dB _u V)	Correct (dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Remark
1	4830.000	50.93	-0.20	50.73	74.00	-23.27	peak
2	9675.000	43.65	11.15	54.80	74.00	-19.20	peak
3	11805.000	33.09	17.43	50.52	74.00	-23.48	peak
4	13545.000	29.97	20.99	50.96	74.00	-23.04	peak
5	17985.000	25.29	25.60	50.89	74.00	-23.11	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2438.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



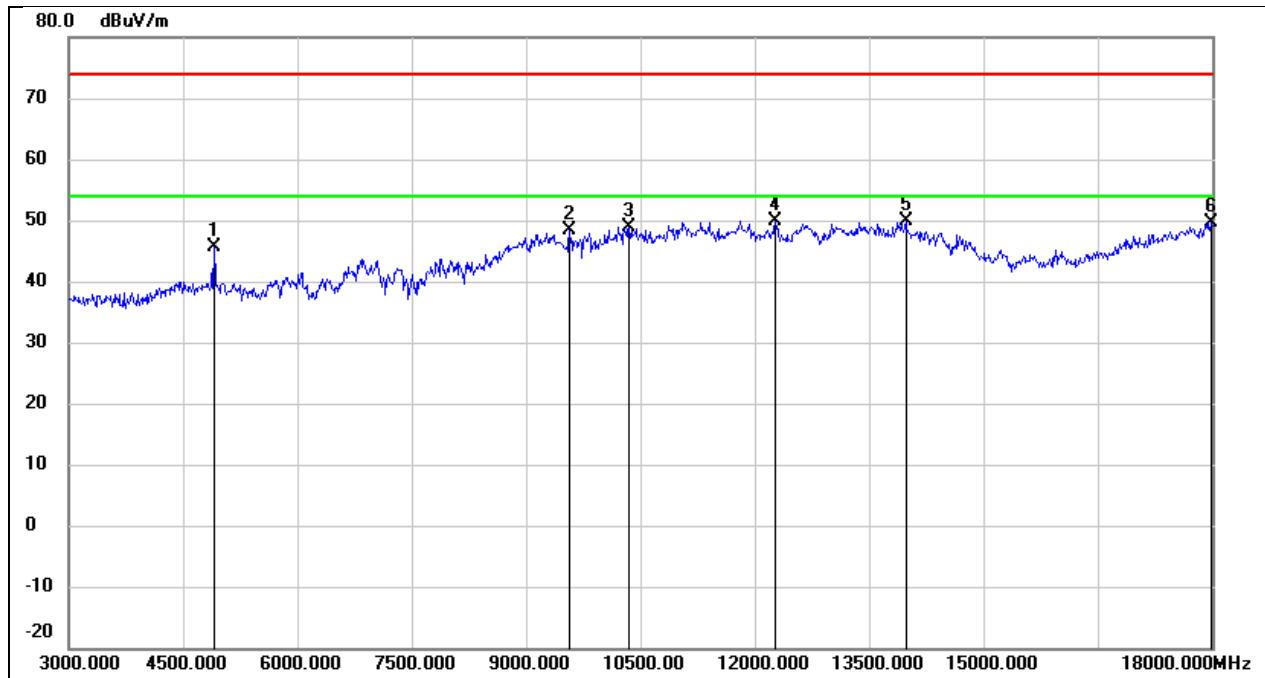
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	46.86	-0.03	46.83	74.00	-27.17	peak
2	9750.000	37.44	11.35	48.79	74.00	-25.21	peak
3	11325.000	33.99	15.95	49.94	74.00	-24.06	peak
4	11925.000	32.67	17.75	50.42	74.00	-23.58	peak
5	13080.000	31.35	19.07	50.42	74.00	-23.58	peak
6	17985.000	24.50	25.60	50.10	74.00	-23.90	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2438.5
Polarity:	Vertical	Test Voltage:	DC 5 V



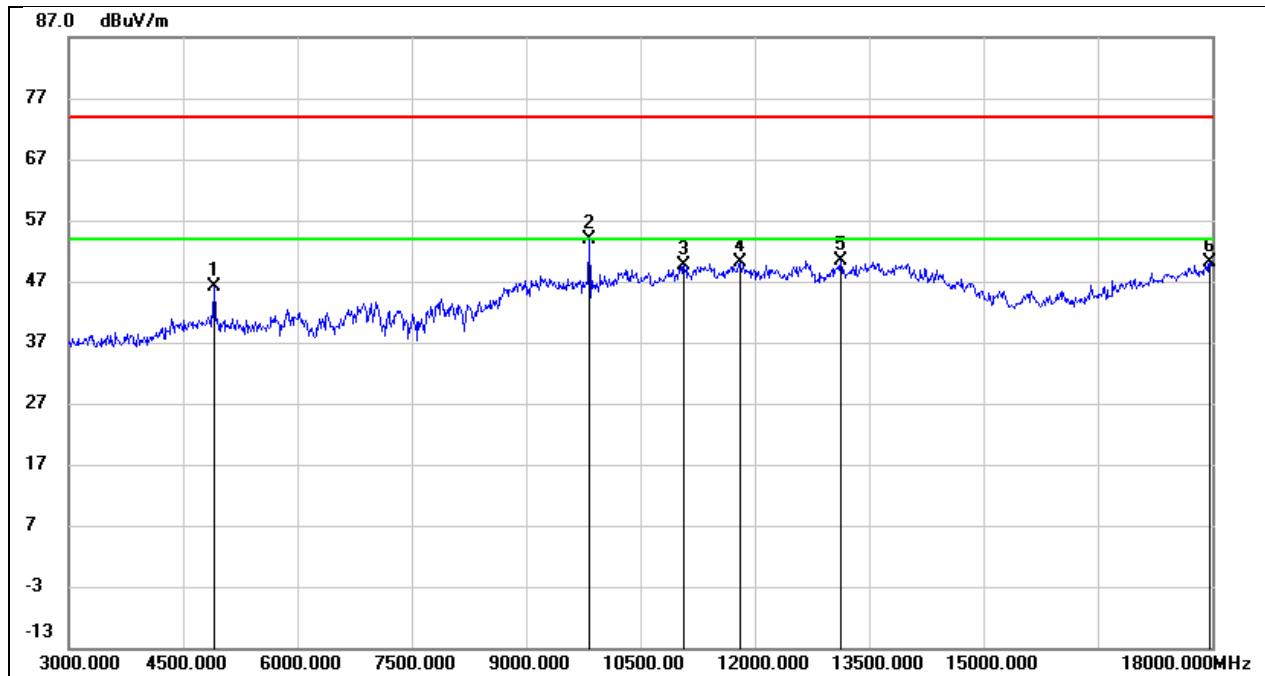
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	49.83	-0.03	49.80	74.00	-24.20	peak
2	9750.000	44.86	11.35	56.21	74.00	-17.79	peak
3	11670.000	32.88	17.07	49.95	74.00	-24.05	peak
4	12720.000	32.34	18.08	50.42	74.00	-23.58	peak
5	13860.000	28.86	21.67	50.53	74.00	-23.47	peak
6	17925.000	25.35	25.25	50.60	74.00	-23.40	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2456.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



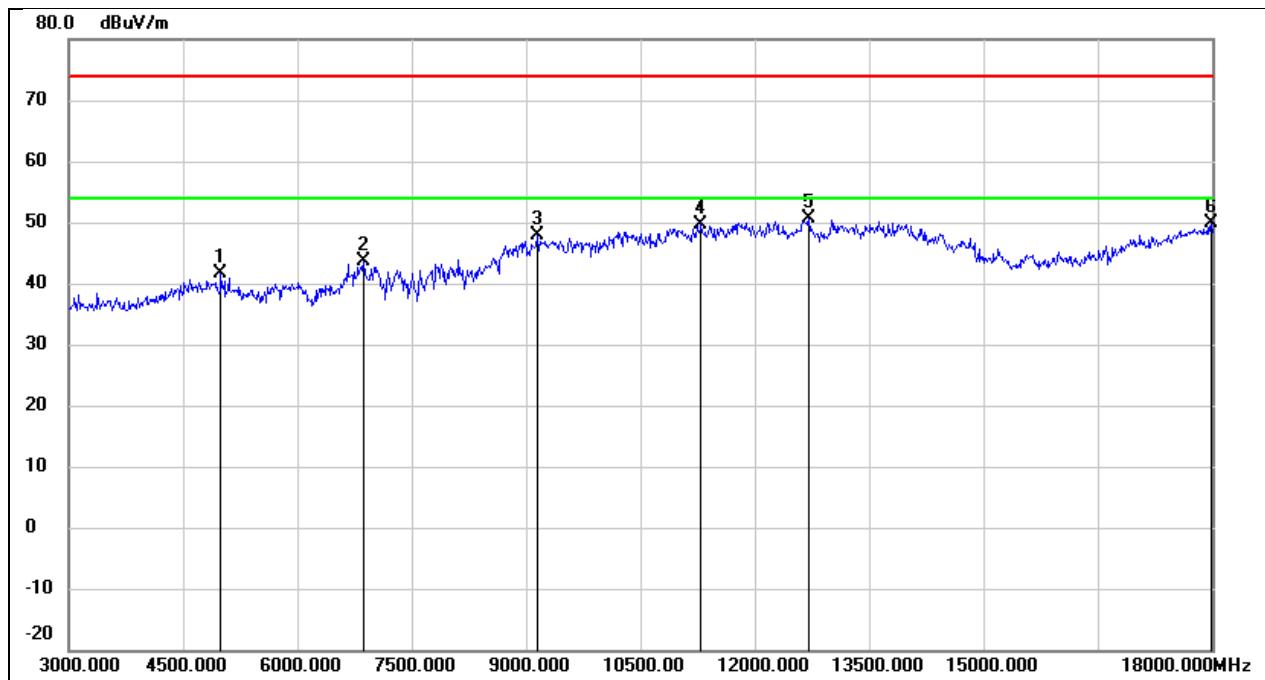
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4905.000	45.64	0.09	45.73	74.00	-28.27	peak
2	9570.000	37.50	10.87	48.37	74.00	-25.63	peak
3	10350.000	36.17	12.70	48.87	74.00	-25.13	peak
4	12270.000	32.21	17.77	49.98	74.00	-24.02	peak
5	13980.000	27.93	21.92	49.85	74.00	-24.15	peak
6	17985.000	24.15	25.60	49.75	74.00	-24.25	peak

Test Mode:	SRD 3MHz	Frequency(MHz):	2456.5
Polarity:	Vertical	Test Voltage:	DC 5 V



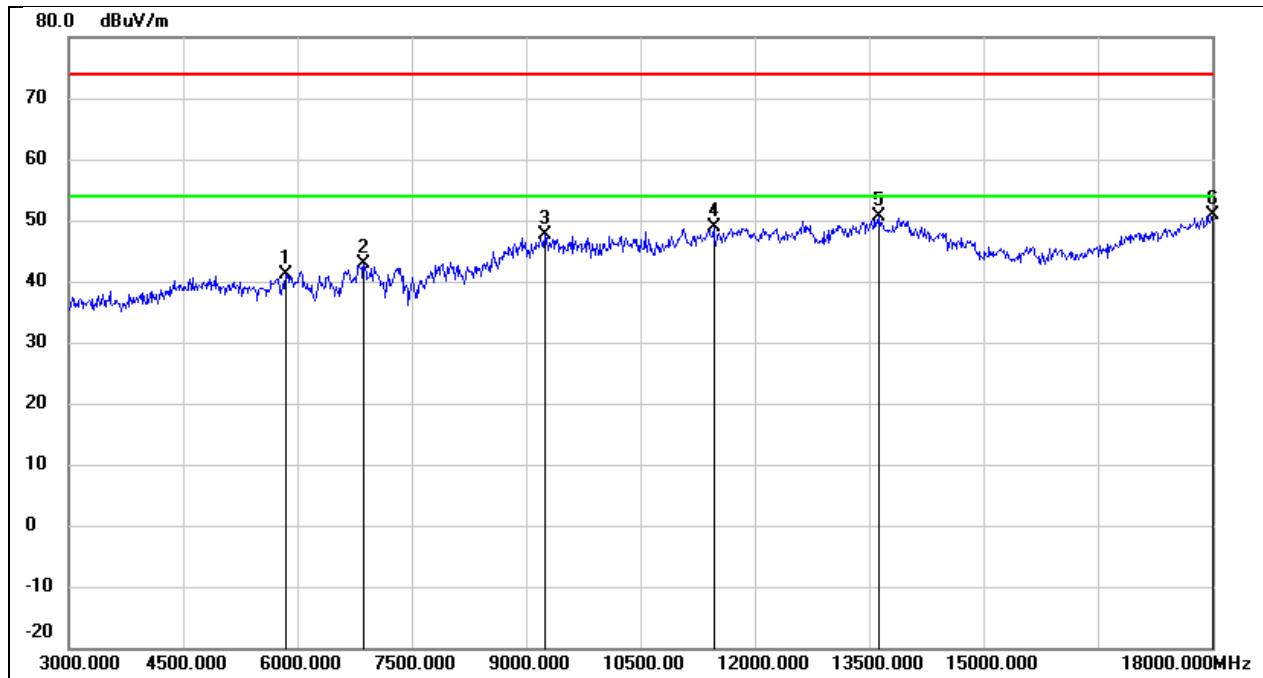
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4905.000	46.02	0.09	46.11	74.00	-27.89	peak
2	9825.000	42.27	11.56	53.83	74.00	-20.17	peak
3	11070.000	34.52	15.03	49.55	74.00	-24.45	peak
4	11805.000	32.75	17.43	50.18	74.00	-23.82	peak
5	13125.000	31.14	19.26	50.40	74.00	-23.60	peak
6	17970.000	24.53	25.51	50.04	74.00	-23.96	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2405.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



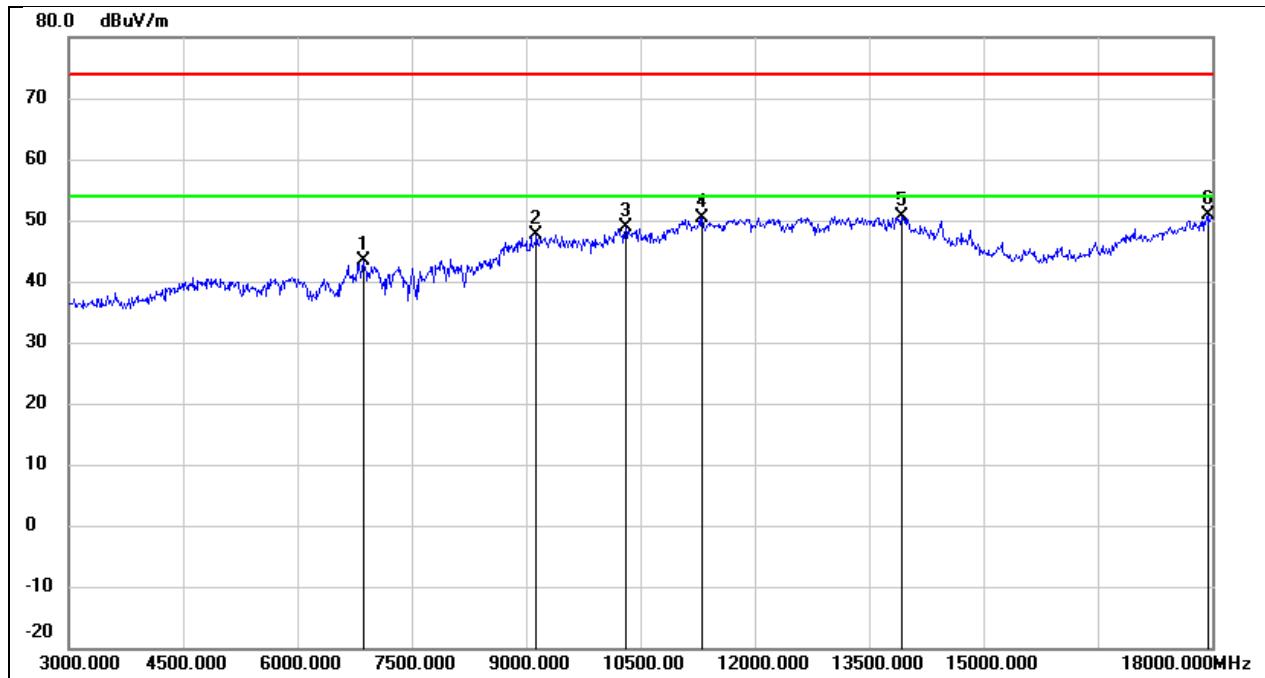
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	41.27	0.43	41.70	74.00	-32.30	peak
2	6870.000	37.55	6.05	43.60	74.00	-30.40	peak
3	9150.000	37.34	10.54	47.88	74.00	-26.12	peak
4	11295.000	33.90	15.85	49.75	74.00	-24.25	peak
5	12705.000	32.54	18.06	50.60	74.00	-23.40	peak
6	17985.000	24.35	25.60	49.95	74.00	-24.05	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2405.5
Polarity:	Vertical	Test Voltage:	DC 5 V



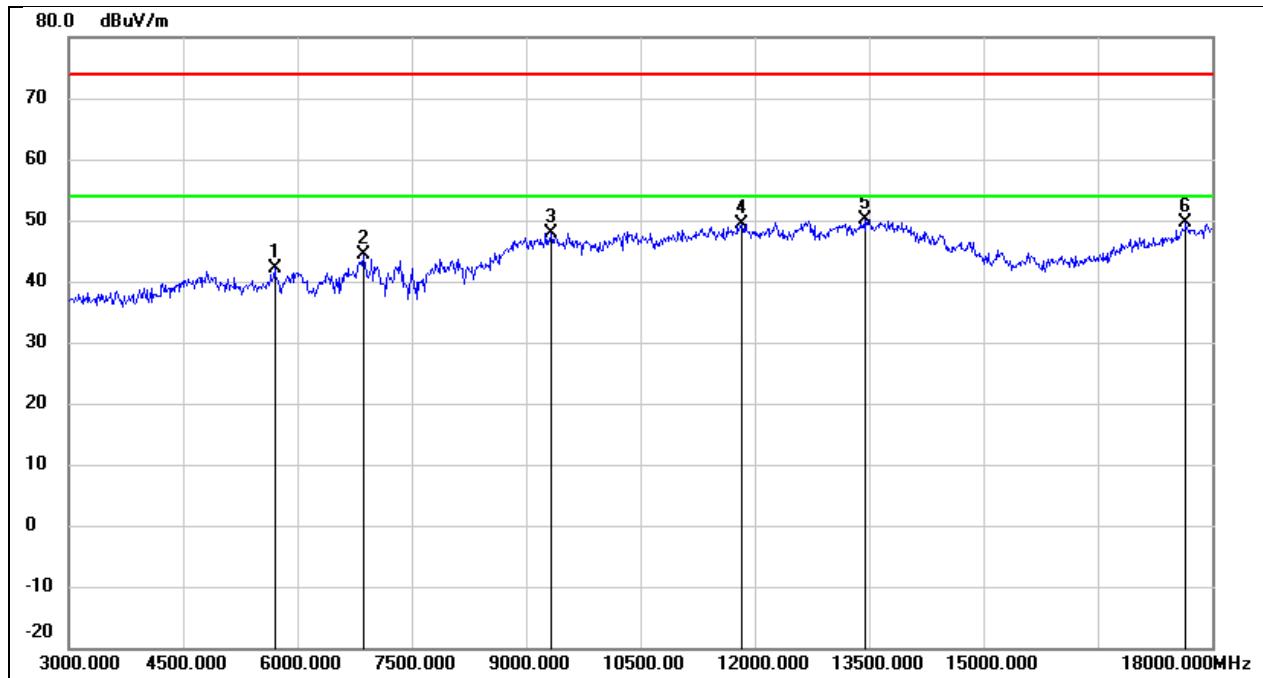
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	39.40	1.82	41.22	74.00	-32.78	peak
2	6870.000	36.79	6.05	42.84	74.00	-31.16	peak
3	9240.000	36.98	10.58	47.56	74.00	-26.44	peak
4	11460.000	32.38	16.46	48.84	74.00	-25.16	peak
5	13635.000	29.52	21.19	50.71	74.00	-23.29	peak
6	18000.000	25.28	25.69	50.97	74.00	-23.03	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2440.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



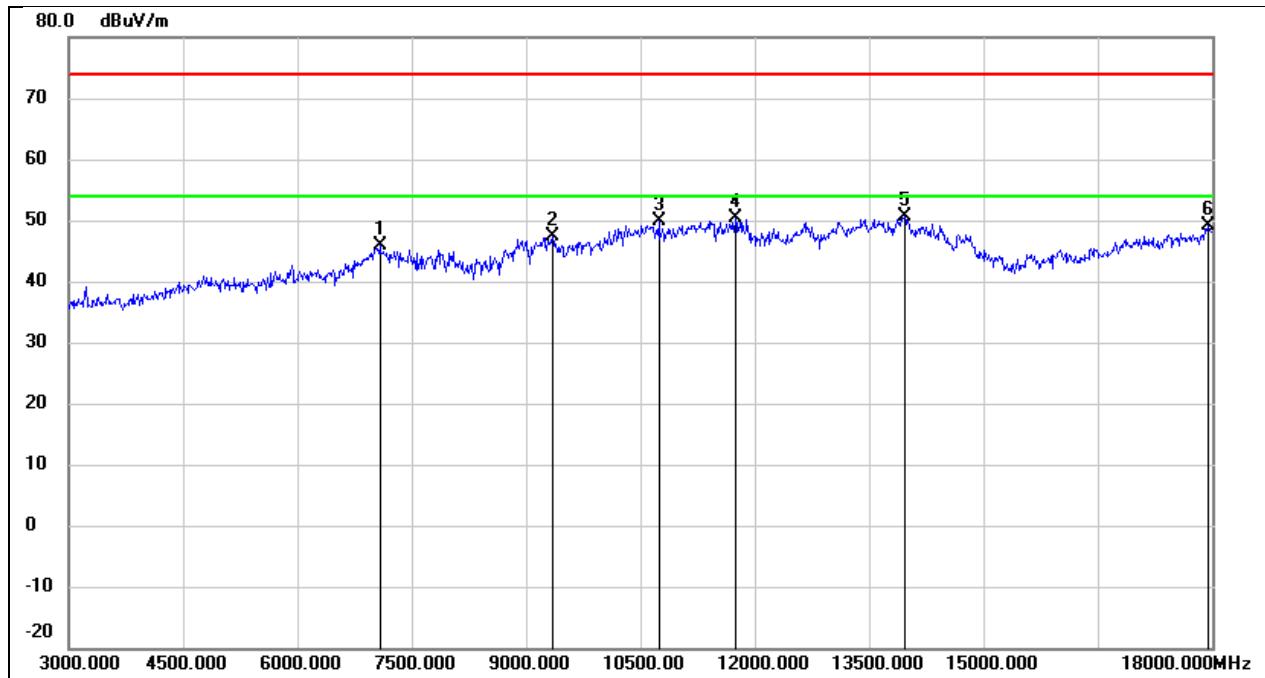
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6870.000	37.21	6.05	43.26	74.00	-30.74	peak
2	9135.000	37.18	10.55	47.73	74.00	-26.27	peak
3	10305.000	36.32	12.61	48.93	74.00	-25.07	peak
4	11310.000	34.50	15.91	50.41	74.00	-23.59	peak
5	13920.000	28.75	21.79	50.54	74.00	-23.46	peak
6	17940.000	25.57	25.34	50.91	74.00	-23.09	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2440.5
Polarity:	Vertical	Test Voltage:	DC 5 V



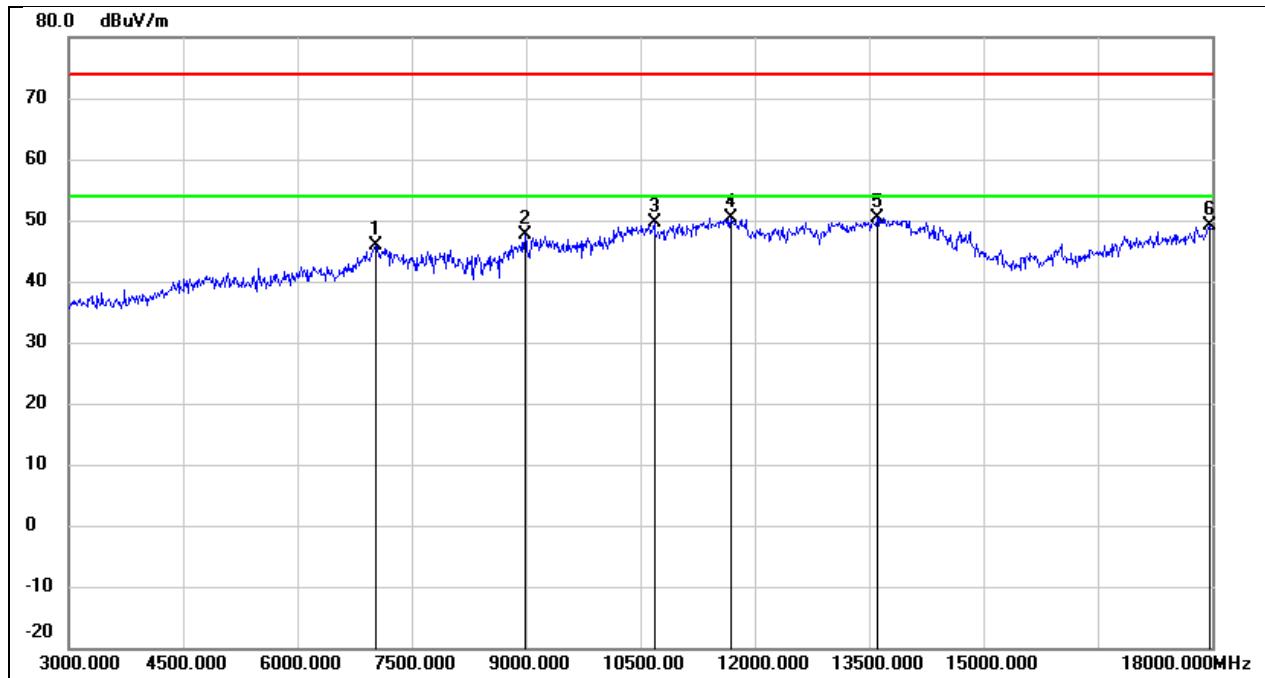
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5700.000	40.76	1.41	42.17	74.00	-31.83	peak
2	6870.000	38.33	6.05	44.38	74.00	-29.62	peak
3	9330.000	37.33	10.62	47.95	74.00	-26.05	peak
4	11835.000	31.99	17.51	49.50	74.00	-24.50	peak
5	13455.000	29.47	20.71	50.18	74.00	-23.82	peak
6	17655.000	25.89	23.64	49.53	74.00	-24.47	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2472.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



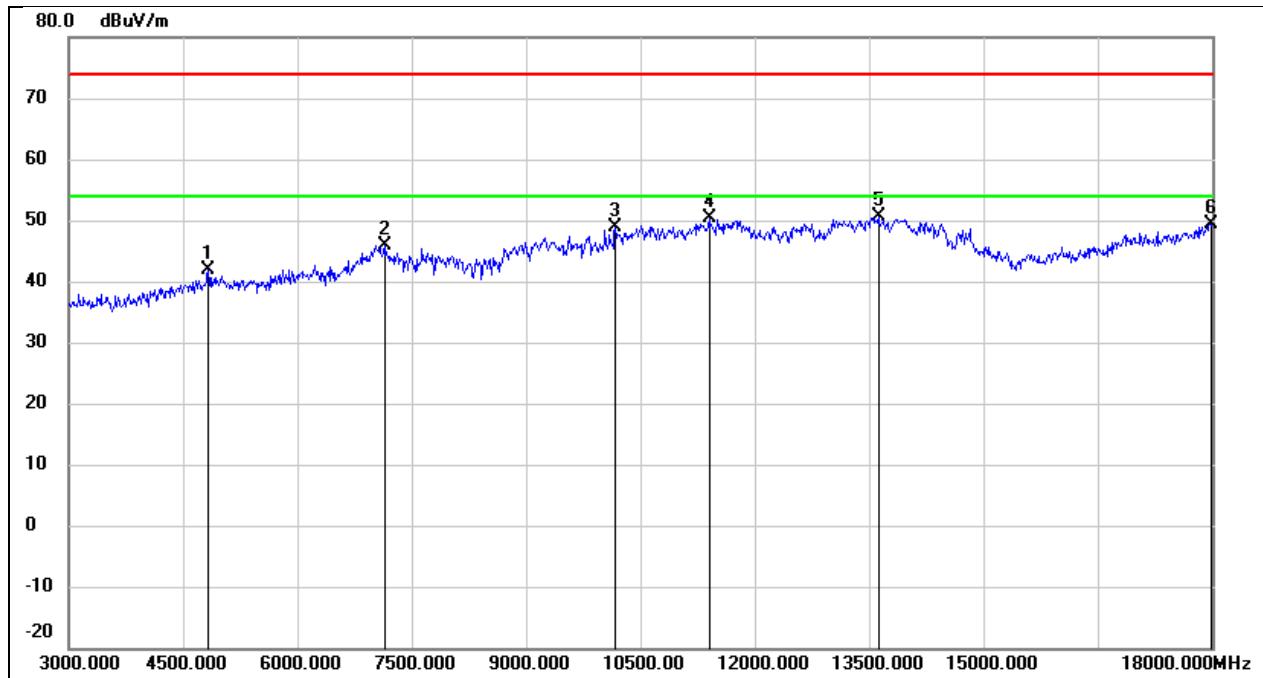
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7080.000	39.18	6.63	45.81	74.00	-28.19	peak
2	9345.000	36.63	10.63	47.26	74.00	-26.74	peak
3	10740.000	35.98	13.85	49.83	74.00	-24.17	peak
4	11745.000	33.16	17.27	50.43	74.00	-23.57	peak
5	13965.000	28.74	21.89	50.63	74.00	-23.37	peak
6	17955.000	23.71	25.42	49.13	74.00	-24.87	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2474.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



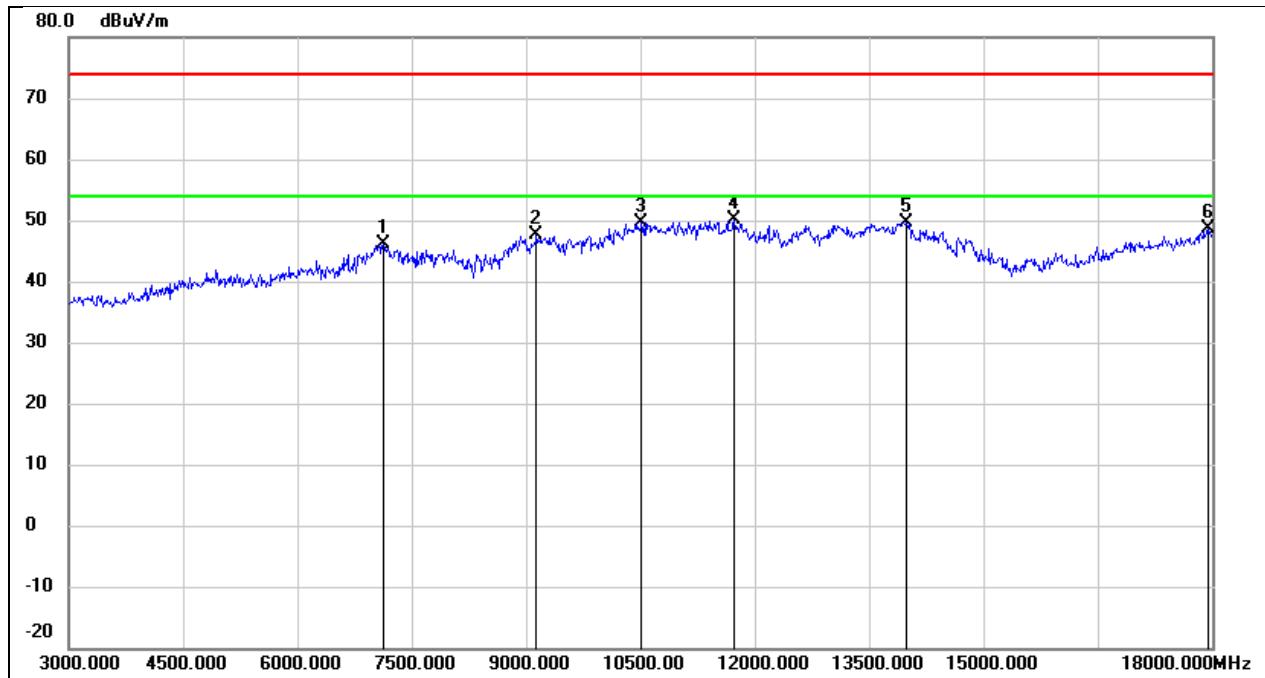
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	39.30	6.67	45.97	74.00	-28.03	peak
2	8985.000	37.15	10.37	47.52	74.00	-26.48	peak
3	10680.000	35.89	13.62	49.51	74.00	-24.49	peak
4	11685.000	33.38	17.10	50.48	74.00	-23.52	peak
5	13605.000	29.29	21.12	50.41	74.00	-23.59	peak
6	17970.000	23.67	25.51	49.18	74.00	-24.82	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2474.5
Polarity:	Vertical	Test Voltage:	DC 5 V



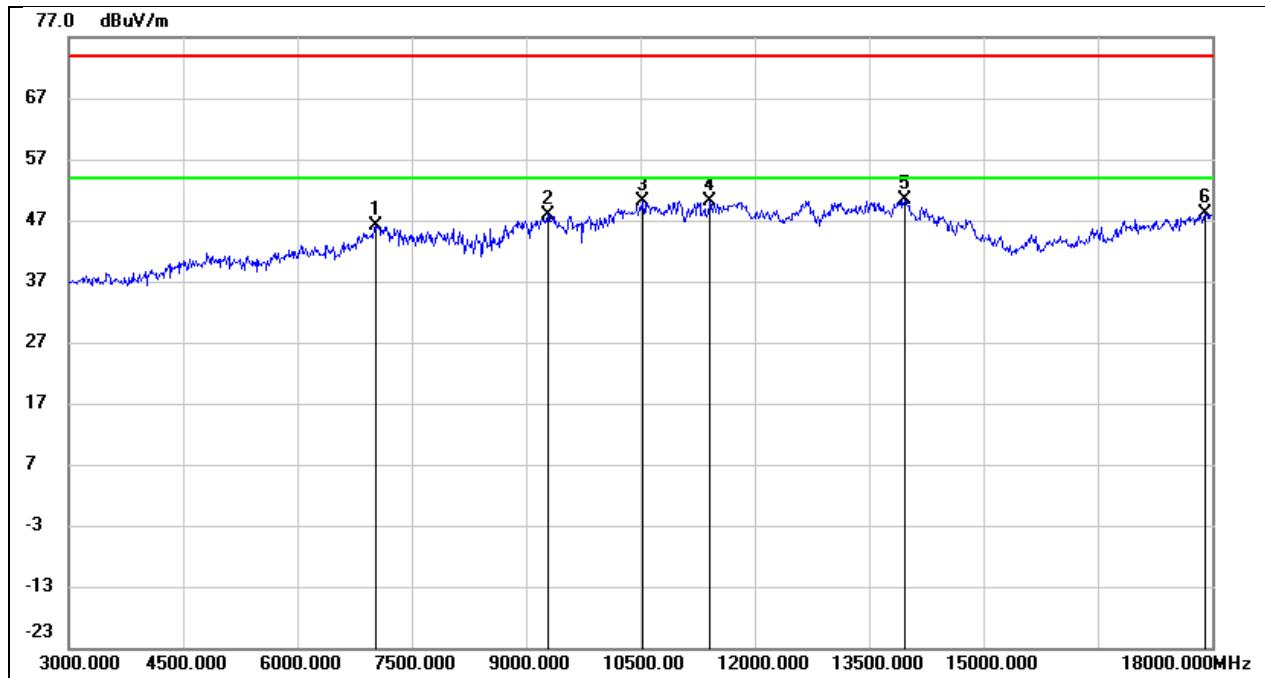
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	42.04	-0.20	41.84	74.00	-32.16	peak
2	7140.000	39.37	6.60	45.97	74.00	-28.03	peak
3	10170.000	36.44	12.34	48.78	74.00	-25.22	peak
4	11400.000	34.05	16.23	50.28	74.00	-23.72	peak
5	13620.000	29.40	21.15	50.55	74.00	-23.45	peak
6	17985.000	23.75	25.60	49.35	74.00	-24.65	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2475.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



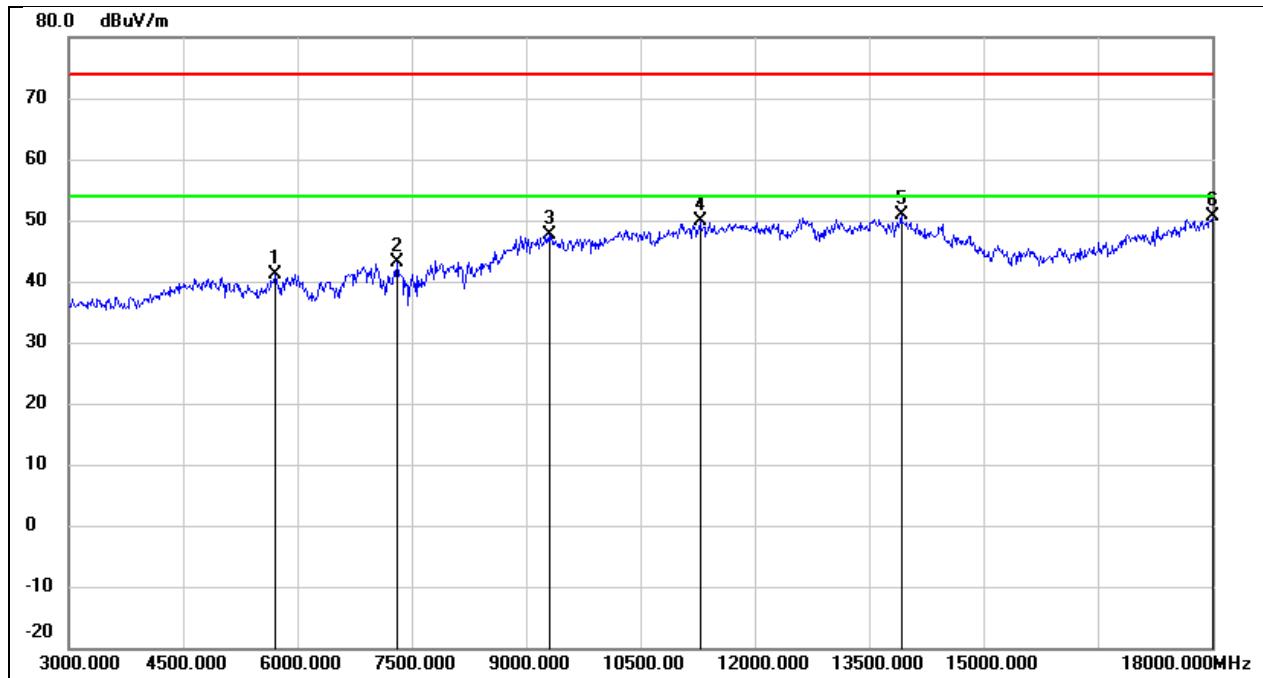
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7125.000	39.42	6.60	46.02	74.00	-27.98	peak
2	9135.000	37.00	10.55	47.55	74.00	-26.45	peak
3	10515.000	36.65	13.04	49.69	74.00	-24.31	peak
4	11730.000	32.88	17.22	50.10	74.00	-23.90	peak
5	13995.000	27.80	21.95	49.75	74.00	-24.25	peak
6	17940.000	23.22	25.34	48.56	74.00	-25.44	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2475.5
Polarity:	Vertical	Test Voltage:	DC 5 V



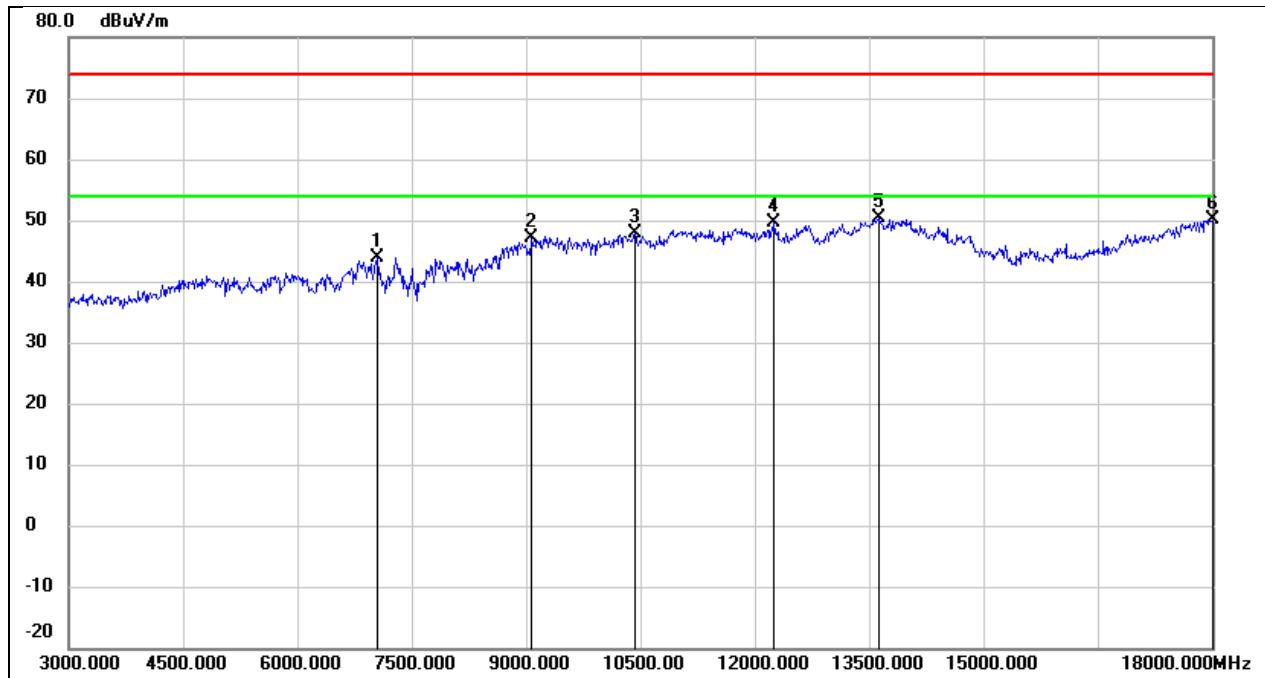
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7020.000	39.47	6.67	46.14	74.00	-27.86	peak
2	9285.000	37.34	10.61	47.95	74.00	-26.05	peak
3	10530.000	36.94	13.10	50.04	74.00	-23.96	peak
4	11415.000	33.81	16.29	50.10	74.00	-23.90	peak
5	13965.000	28.52	21.89	50.41	74.00	-23.59	peak
6	17910.000	22.92	25.16	48.08	74.00	-25.92	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2476.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



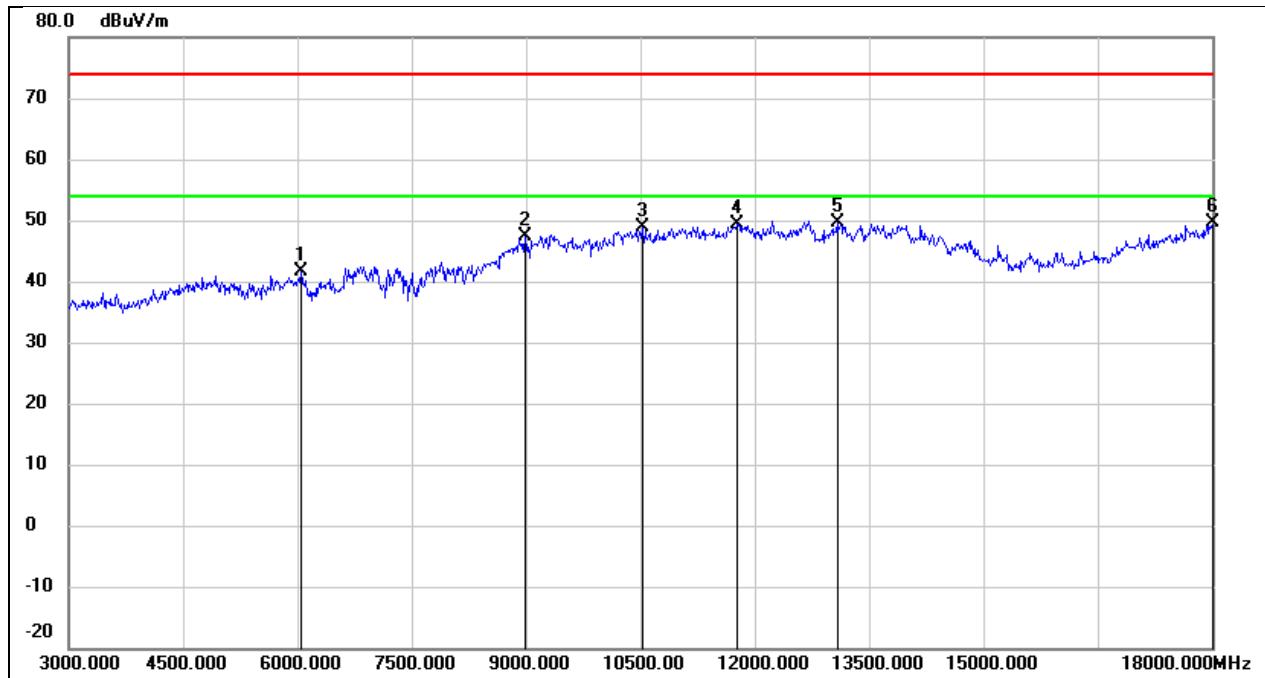
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5700.000	39.75	1.41	41.16	74.00	-32.84	peak
2	7305.000	36.57	6.47	43.04	74.00	-30.96	peak
3	9300.000	36.96	10.61	47.57	74.00	-26.43	peak
4	11280.000	34.18	15.80	49.98	74.00	-24.02	peak
5	13920.000	29.05	21.79	50.84	74.00	-23.16	peak
6	18000.000	24.97	25.69	50.66	74.00	-23.34	peak

Test Mode:	SRD 10MHz	Frequency(MHz):	2476.5
Polarity:	Vertical	Test Voltage:	DC 5 V



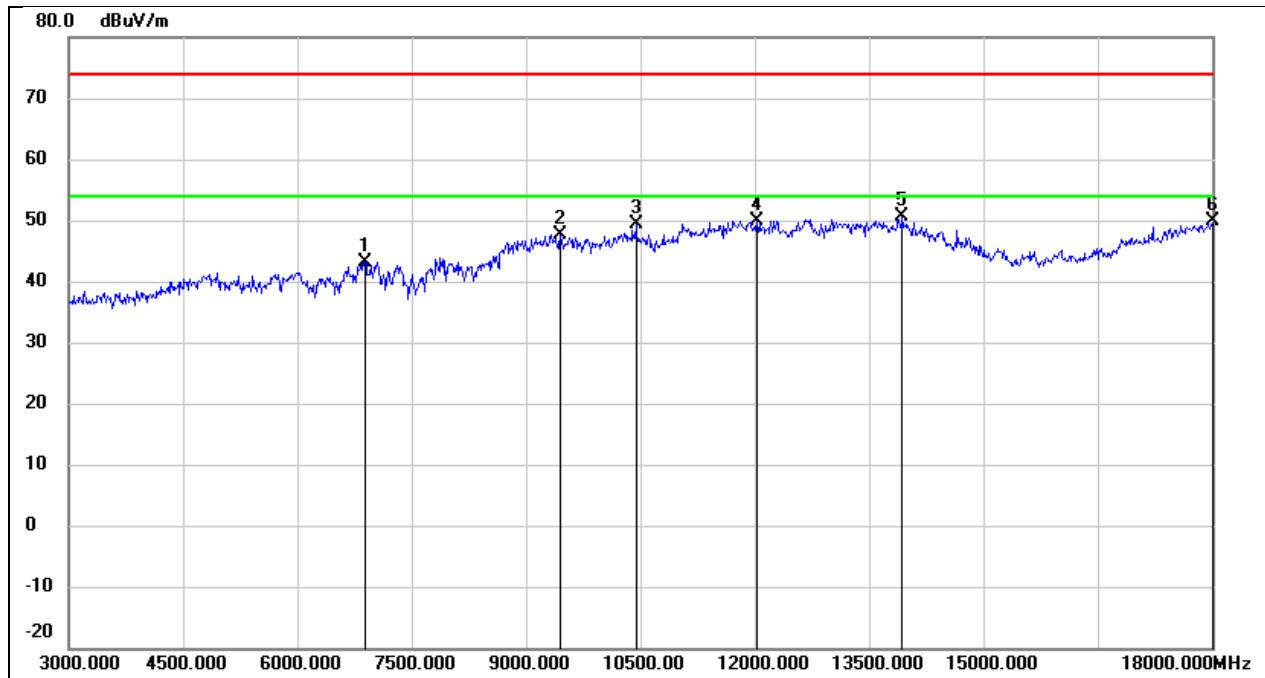
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7050.000	37.26	6.66	43.92	74.00	-30.08	peak
2	9075.000	36.50	10.52	47.02	74.00	-26.98	peak
3	10425.000	35.00	12.84	47.84	74.00	-26.16	peak
4	12255.000	31.73	17.78	49.51	74.00	-24.49	peak
5	13620.000	29.30	21.15	50.45	74.00	-23.55	peak
6	18000.000	24.48	25.69	50.17	74.00	-23.83	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2410.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



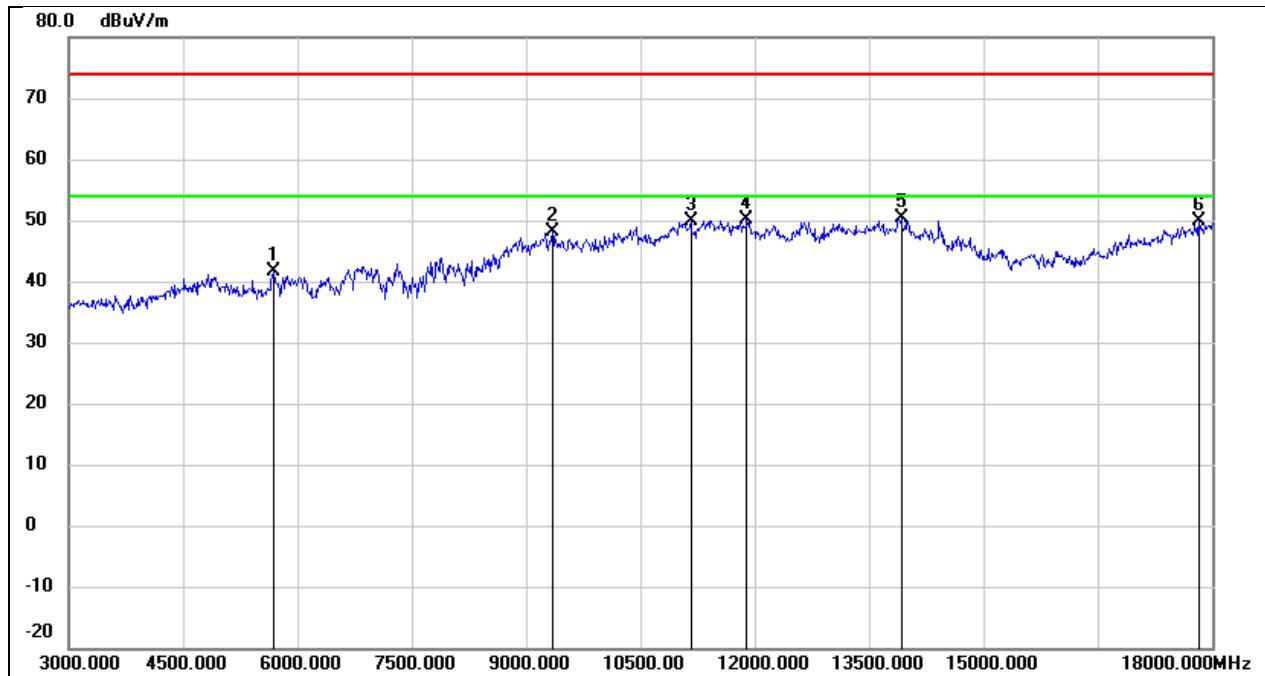
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6045.000	39.25	2.43	41.68	74.00	-32.32	peak
2	8985.000	37.08	10.37	47.45	74.00	-26.55	peak
3	10530.000	35.82	13.10	48.92	74.00	-25.08	peak
4	11775.000	31.93	17.35	49.28	74.00	-24.72	peak
5	13080.000	30.67	19.07	49.74	74.00	-24.26	peak
6	18000.000	23.94	25.69	49.63	74.00	-24.37	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2410.5
Polarity:	Vertical	Test Voltage:	DC 5 V



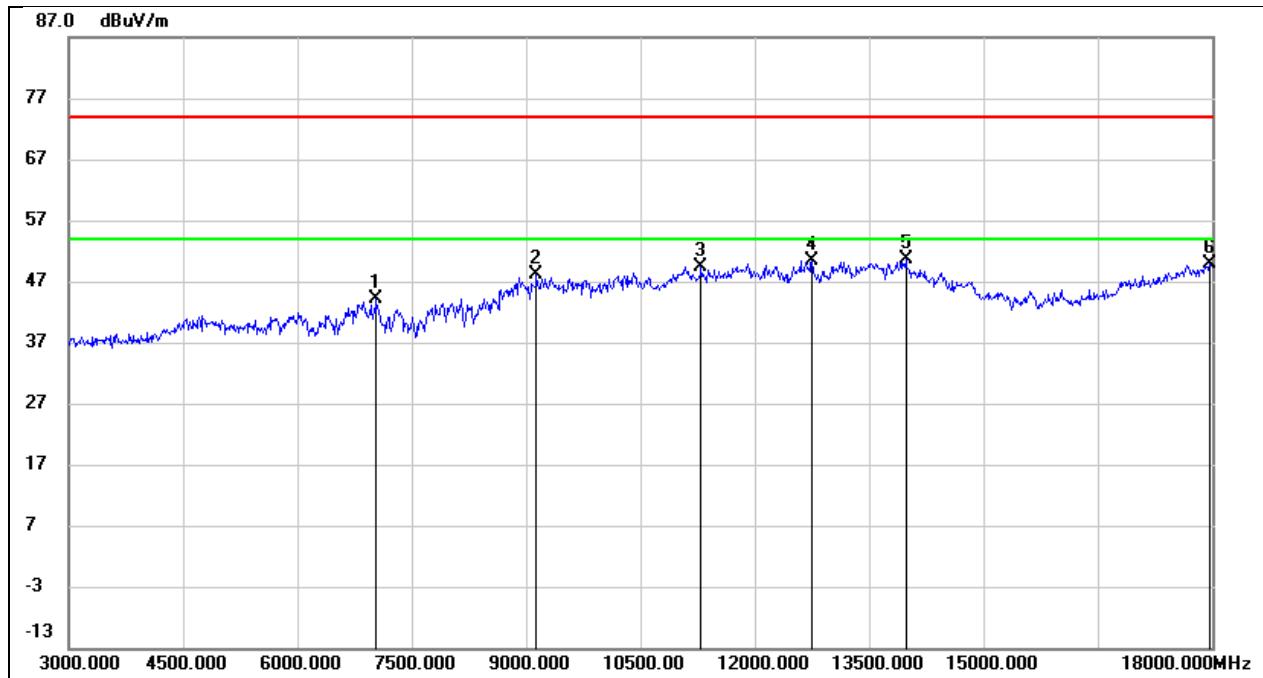
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6885.000	37.05	6.12	43.17	74.00	-30.83	peak
2	9450.000	36.99	10.67	47.66	74.00	-26.34	peak
3	10440.000	36.53	12.87	49.40	74.00	-24.60	peak
4	12030.000	31.97	17.94	49.91	74.00	-24.09	peak
5	13935.000	28.81	21.82	50.63	74.00	-23.37	peak
6	18000.000	24.28	25.69	49.97	74.00	-24.03	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2441.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



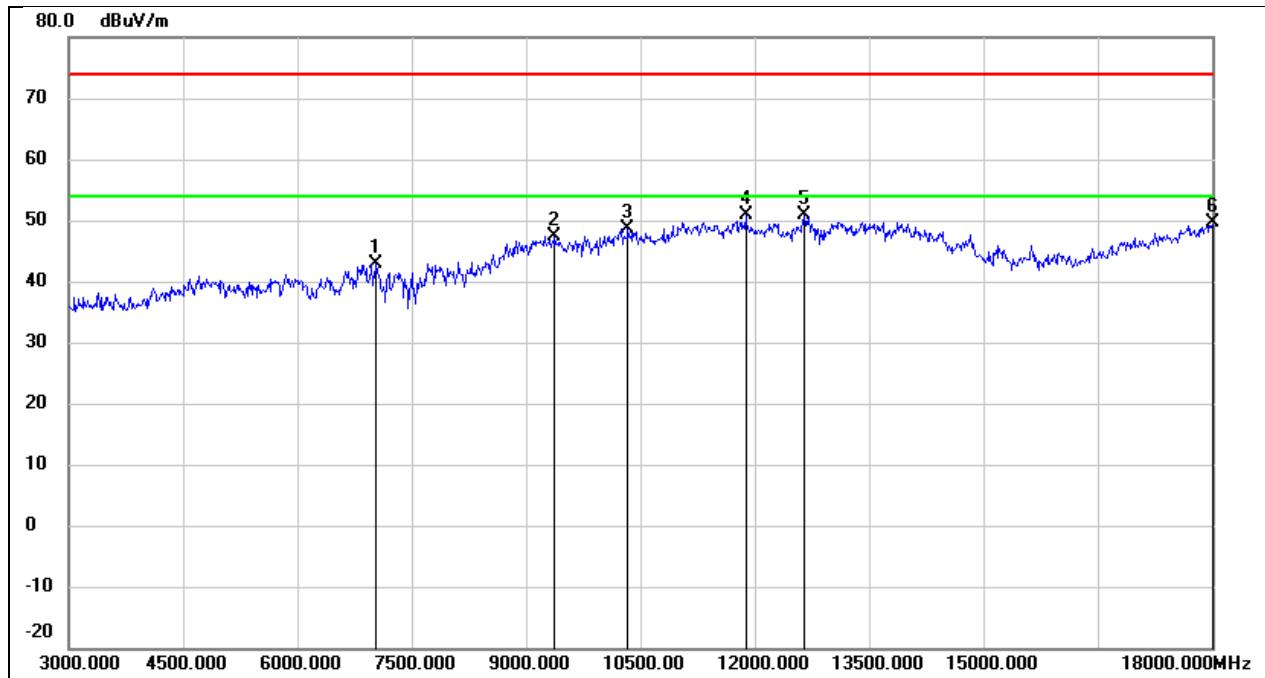
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5685.000	40.22	1.37	41.59	74.00	-32.41	peak
2	9345.000	37.55	10.63	48.18	74.00	-25.82	peak
3	11160.000	34.57	15.36	49.93	74.00	-24.07	peak
4	11895.000	32.41	17.68	50.09	74.00	-23.91	peak
5	13920.000	28.61	21.79	50.40	74.00	-23.60	peak
6	17820.000	25.37	24.63	50.00	74.00	-24.00	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2441.5
Polarity:	Vertical	Test Voltage:	DC 5 V



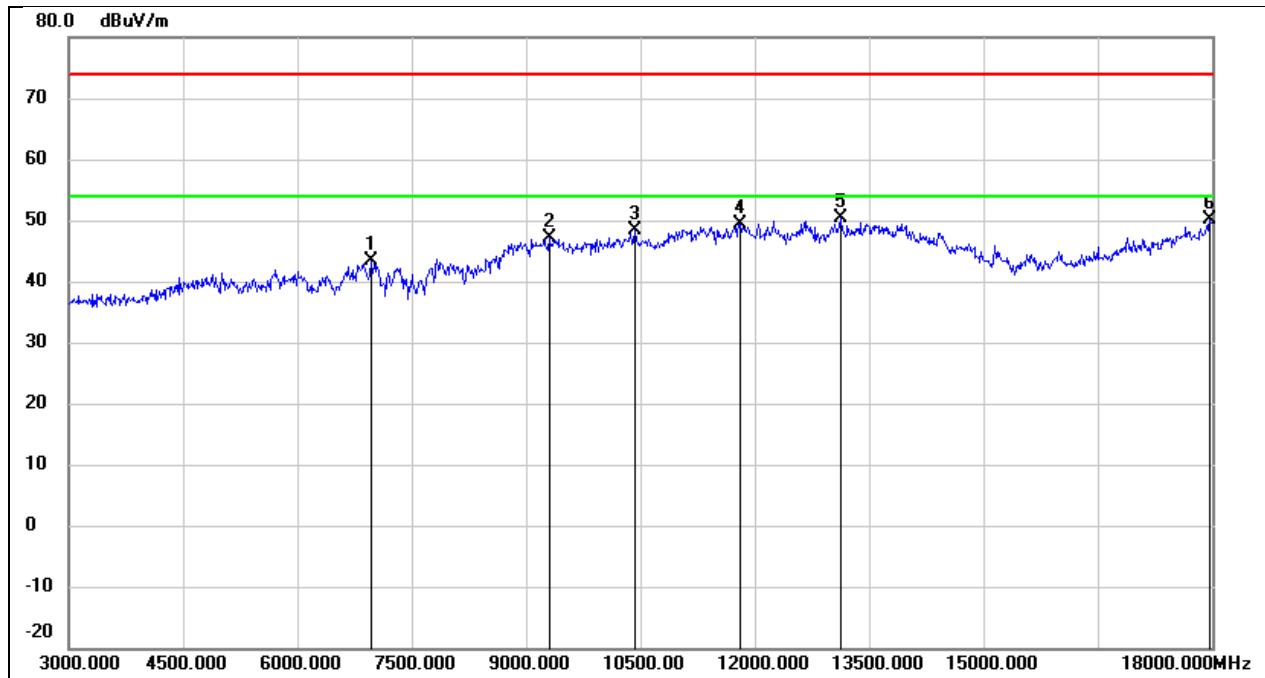
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	37.54	6.67	44.21	74.00	-29.79	peak
2	9135.000	37.64	10.55	48.19	74.00	-25.81	peak
3	11295.000	33.62	15.85	49.47	74.00	-24.53	peak
4	12750.000	32.16	18.16	50.32	74.00	-23.68	peak
5	13980.000	28.63	21.92	50.55	74.00	-23.45	peak
6	17970.000	24.37	25.51	49.88	74.00	-24.12	peak

Test Mode:	SRD 20MHz	Frequency(MHz):	2472.5
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	36.23	6.67	42.90	74.00	-31.10	peak
2	9375.000	36.66	10.64	47.30	74.00	-26.70	peak
3	10335.000	35.96	12.67	48.63	74.00	-25.37	peak
4	11880.000	33.20	17.63	50.83	74.00	-23.17	peak
5	12645.000	33.00	17.92	50.92	74.00	-23.08	peak
6	18000.000	24.01	25.69	49.70	74.00	-24.30	peak

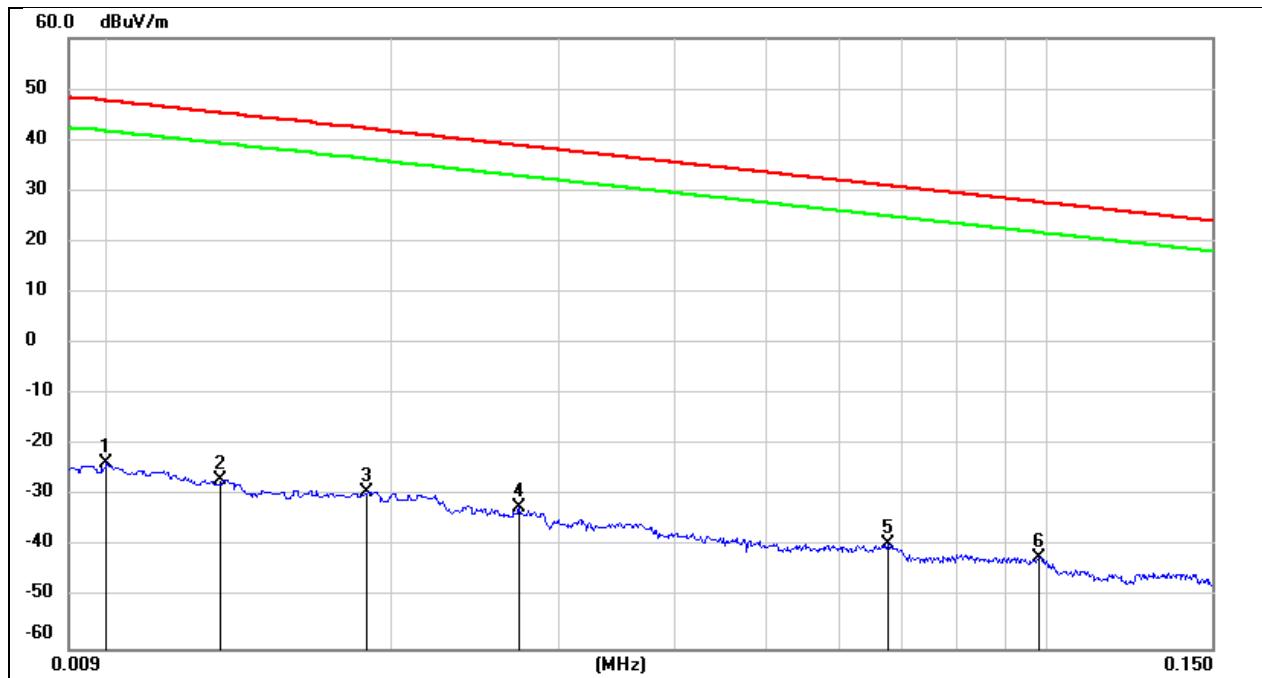
Test Mode:	SRD 20MHz	Frequency(MHz):	2472.5
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6960.000	36.83	6.50	43.33	74.00	-30.67	peak
2	9300.000	36.43	10.61	47.04	74.00	-26.96	peak
3	10425.000	35.58	12.84	48.42	74.00	-25.58	peak
4	11805.000	32.03	17.43	49.46	74.00	-24.54	peak
5	13125.000	31.07	19.26	50.33	74.00	-23.67	peak
6	17970.000	24.54	25.51	50.05	74.00	-23.95	peak

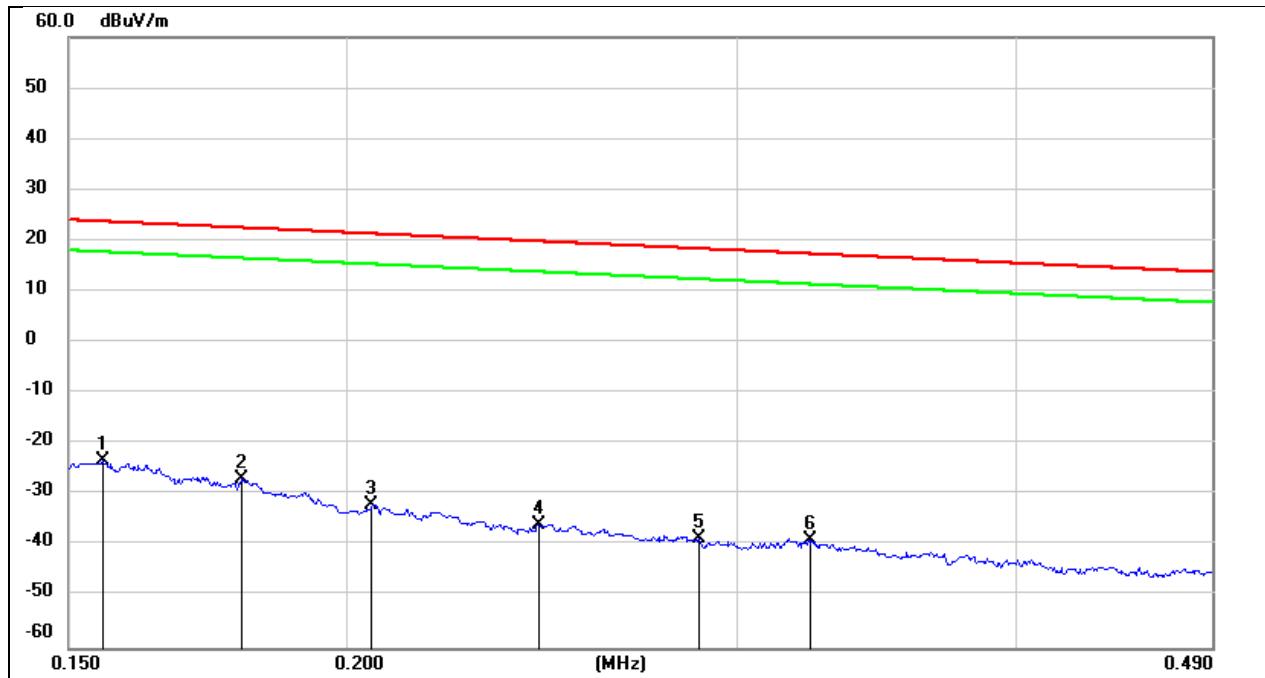
8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 5 V



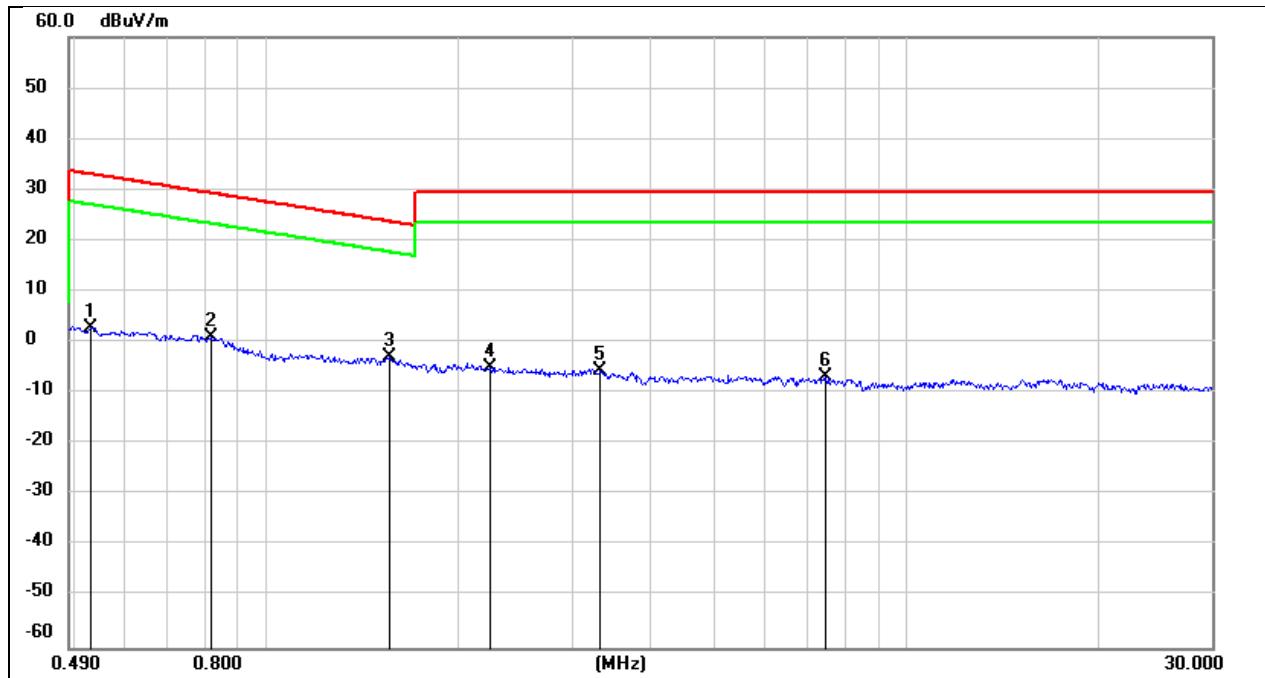
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Result (dBuA/m)	Limit (dBuV/m)	Limit (dBuA/m)	Margin (dB)	Remark
1	0.01	77.72	-101.4	-23.68	-75.18	47.6	-3.9	-71.28	peak
2	0.0131	74.47	-101.38	-26.91	-78.41	45.25	-6.25	-72.16	peak
3	0.0188	72.14	-101.35	-29.21	-80.71	42.12	-9.38	-71.33	peak
4	0.0273	68.99	-101.38	-32.39	-83.89	38.88	-12.62	-71.27	peak
5	0.0675	62.14	-101.56	-39.42	-90.92	31.02	-20.48	-70.44	peak
6	0.0981	59.77	-101.78	-42.01	-93.51	27.77	-23.73	-69.78	peak

Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.1554	78.27	-101.65	-23.38	-74.88	23.77	-27.73	-47.15	peak
2	0.1794	74.77	-101.68	-26.91	-78.41	22.53	-28.97	-49.44	peak
3	0.2053	69.79	-101.73	-31.94	-83.44	21.35	-30.15	-53.29	peak
4	0.2442	66.03	-101.79	-35.76	-87.26	19.85	-31.65	-55.61	peak
5	0.2878	63.22	-101.85	-38.63	-90.13	18.42	-33.08	-57.05	peak
6	0.3234	62.98	-101.88	-38.9	-90.40	17.41	-34.09	-56.31	peak

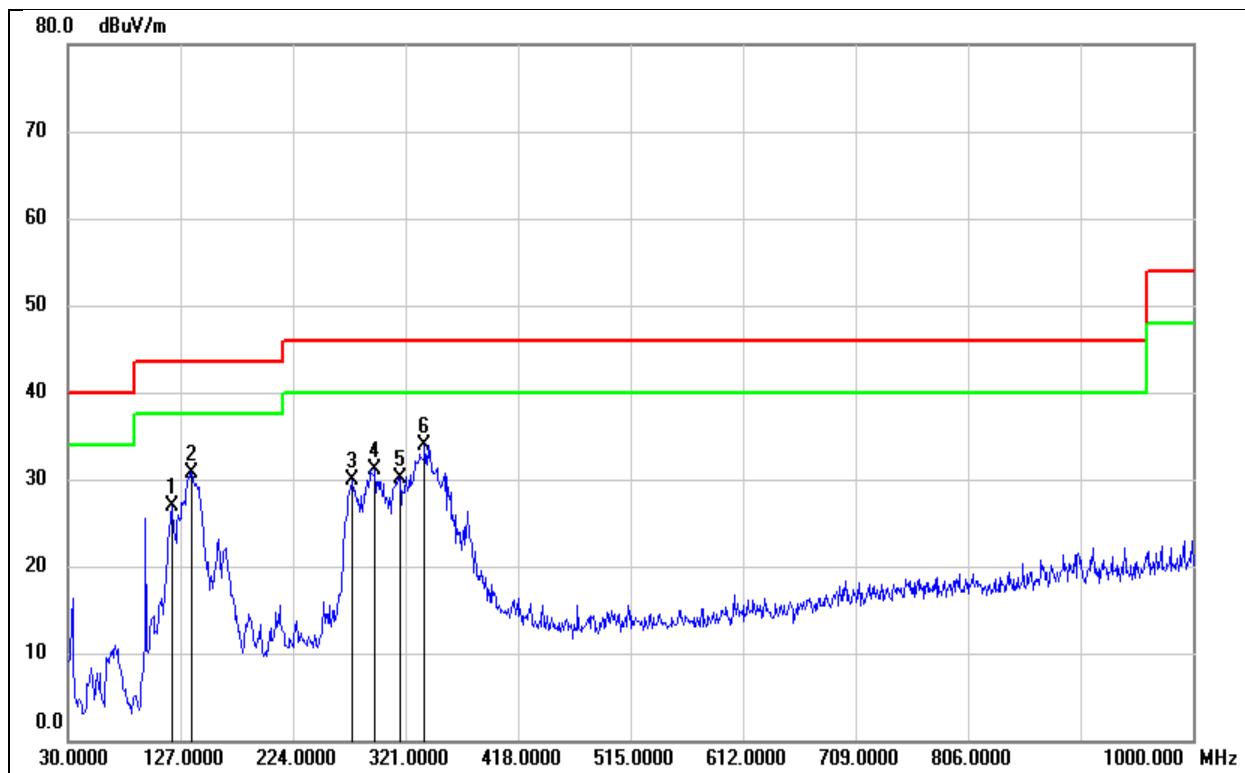
Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	DC 5 V



No.	Frequency	Reading	Correct	Result	Result	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuA/m)	(dBuV/m)	(dBuA/m)	(dB)	
1	0.5298	65.03	-62.08	2.95	-48.55	33.12	-18.38	-30.17	peak
2	0.8195	63.16	-62.16	1	-50.50	29.33	-22.17	-28.33	peak
3	1.5564	59.18	-62.02	-2.84	-54.34	23.76	-27.74	-26.60	peak
4	2.2364	56.8	-61.76	-4.96	-56.46	29.54	-21.96	-34.50	peak
5	3.3229	55.89	-61.5	-5.61	-57.11	29.54	-21.96	-35.15	peak
6	7.4839	54.47	-61.15	-6.68	-58.18	29.54	-21.96	-36.22	peak

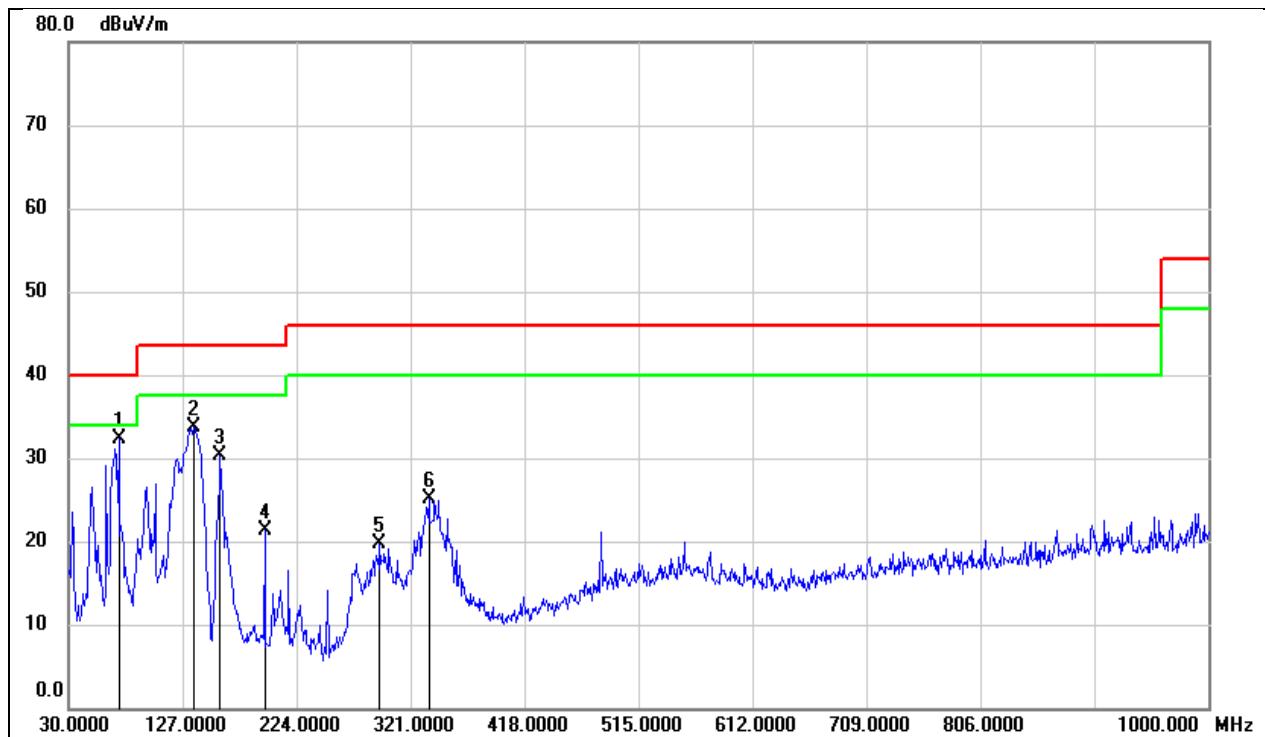
8.5. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	119.2400	46.26	-19.42	26.84	43.50	-16.66	QP
2	136.7000	49.25	-18.54	30.71	43.50	-12.79	QP
3	275.4100	46.46	-16.55	29.91	46.00	-16.09	QP
4	294.8100	46.36	-15.17	31.19	46.00	-14.81	QP
5	316.1500	44.21	-14.05	30.16	46.00	-15.84	QP
6	337.4900	47.02	-13.09	33.93	46.00	-12.07	QP

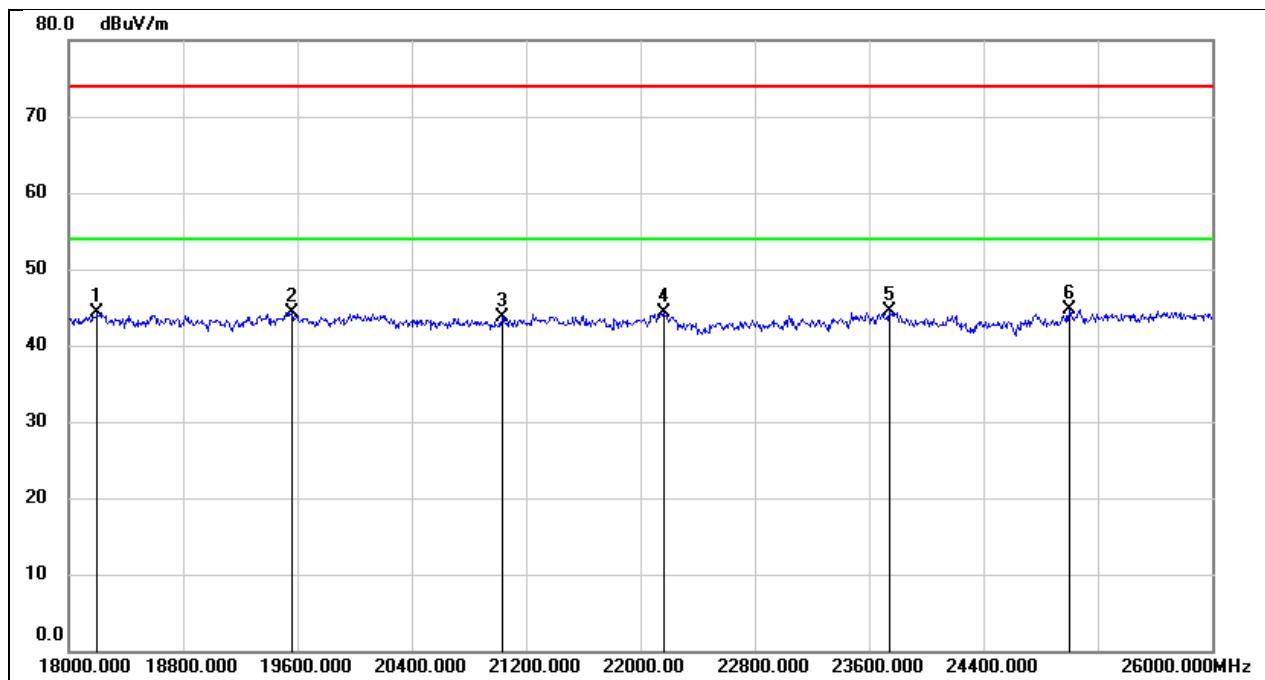
Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	72.6800	52.72	-20.47	32.25	40.00	-7.75	QP
2	136.7000	52.17	-18.54	33.63	43.50	-9.87	QP
3	159.0100	47.43	-17.08	30.35	43.50	-13.15	QP
4	196.8400	37.09	-15.87	21.22	43.50	-22.28	QP
5	294.8100	34.94	-15.17	19.77	46.00	-26.23	QP
6	336.5200	38.21	-13.13	25.08	46.00	-20.92	QP

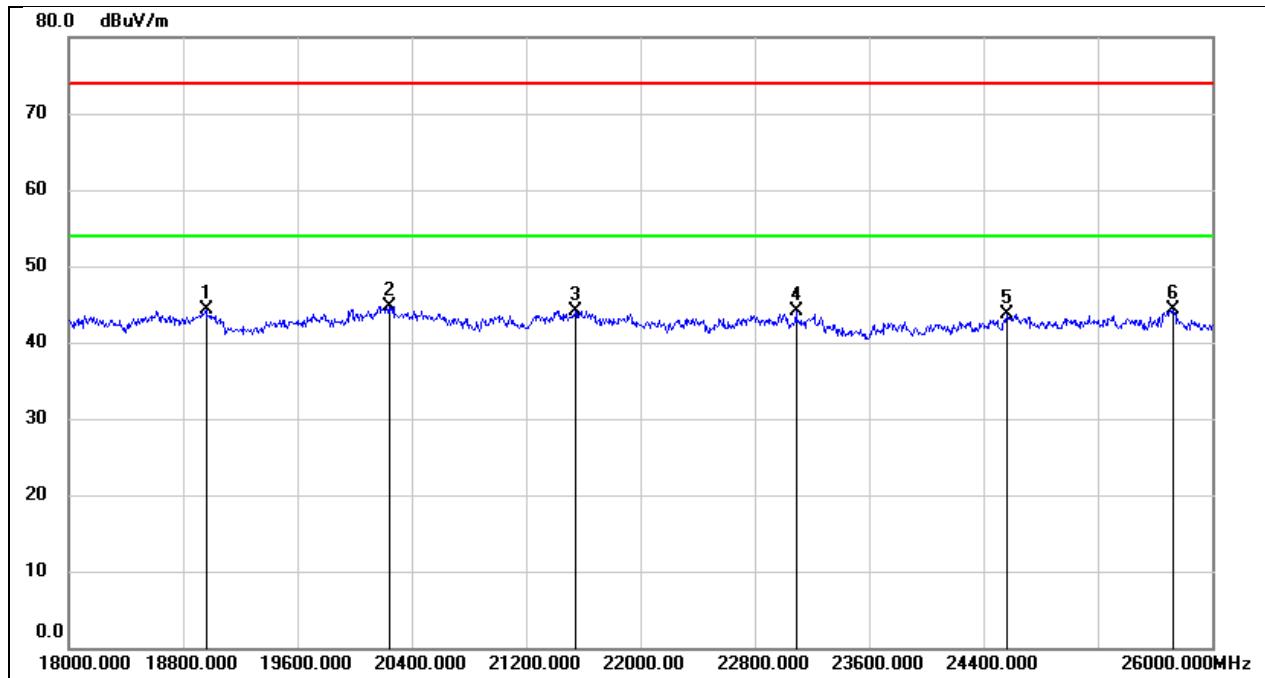
8.6. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18200.000	49.79	-5.52	44.27	74.00	-29.73	peak
2	19560.000	49.86	-5.48	44.38	74.00	-29.62	peak
3	21032.000	48.65	-4.87	43.78	74.00	-30.22	peak
4	22160.000	48.58	-4.31	44.27	74.00	-29.73	peak
5	23744.000	47.65	-3.20	44.45	74.00	-29.55	peak
6	25000.000	46.86	-2.10	44.76	74.00	-29.24	peak

Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18960.000	49.51	-5.25	44.26	74.00	-29.74	peak
2	20240.000	50.32	-5.61	44.71	74.00	-29.29	peak
3	21544.000	48.76	-4.63	44.13	74.00	-29.87	peak
4	23088.000	47.52	-3.41	44.11	74.00	-29.89	peak
5	24568.000	46.10	-2.33	43.77	74.00	-30.23	peak
6	25728.000	45.11	-0.72	44.39	74.00	-29.61	peak

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

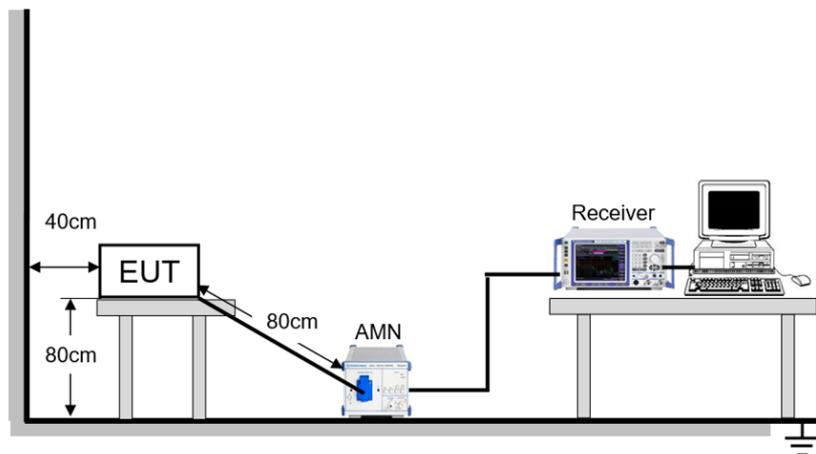
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP

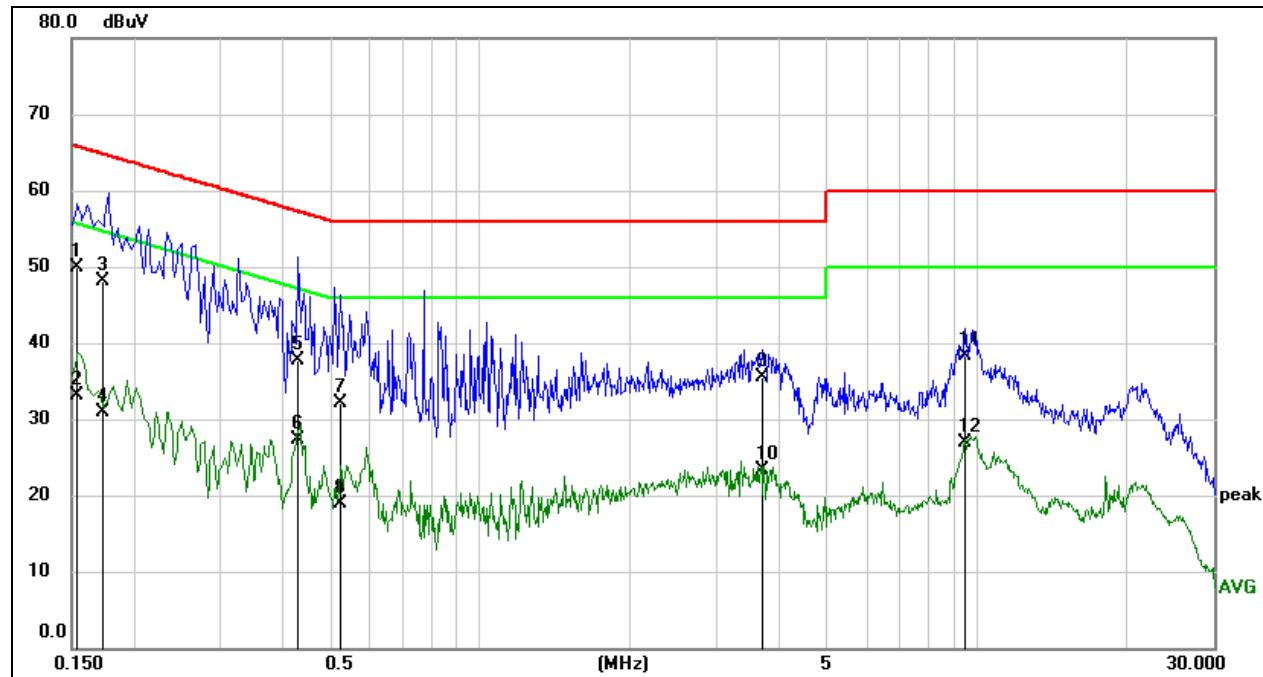


TEST ENVIRONMENT

Temperature	20.5°C	Relative Humidity	59%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST RESULTS

Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Line	L1	Test Voltage	AC 120 V/60 Hz

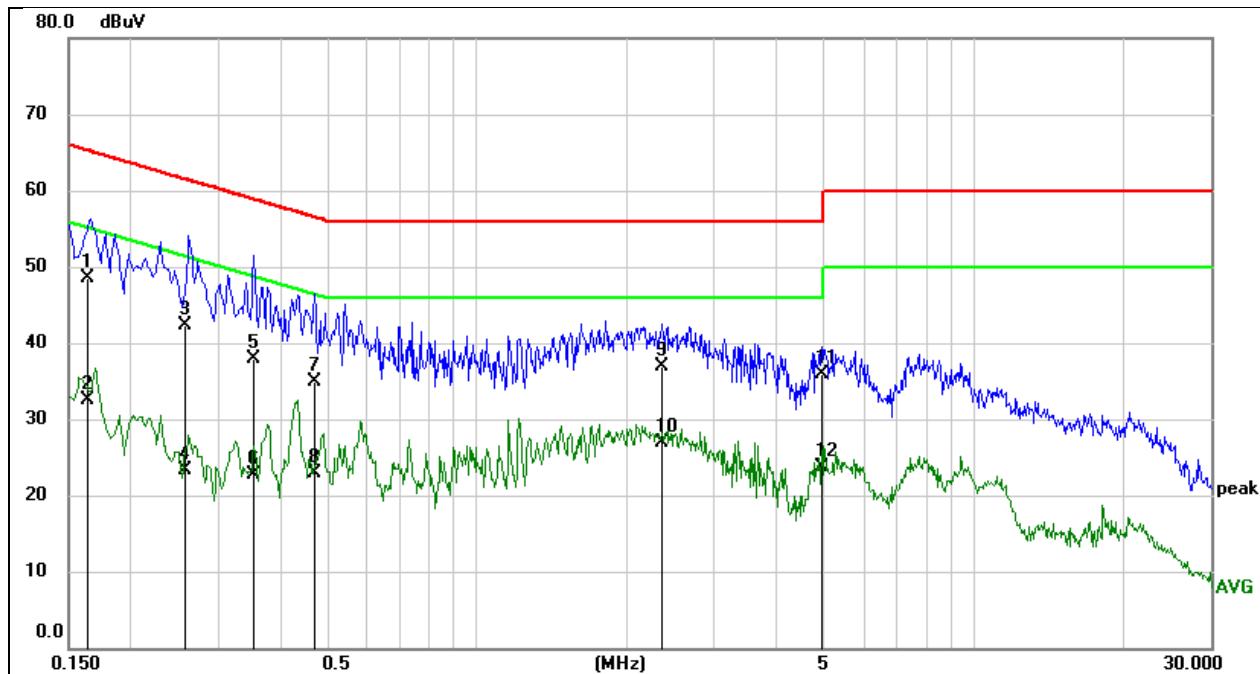


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1536	40.37	9.59	49.96	65.80	-15.84	QP
2	0.1536	23.48	9.59	33.07	55.80	-22.73	AVG
3	0.1736	38.56	9.59	48.15	64.79	-16.64	QP
4	0.1736	21.29	9.59	30.88	54.79	-23.91	AVG
5	0.4276	28.05	9.60	37.65	57.30	-19.65	QP
6	0.4276	17.67	9.60	27.27	47.30	-20.03	AVG
7	0.5237	22.57	9.60	32.17	56.00	-23.83	QP
8	0.5237	9.36	9.60	18.96	46.00	-27.04	AVG
9	3.6761	25.75	9.69	35.44	56.00	-20.56	QP
10	3.6761	13.56	9.69	23.25	46.00	-22.75	AVG
11	9.4745	28.57	9.72	38.29	60.00	-21.71	QP
12	9.4745	17.26	9.72	26.98	50.00	-23.02	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Test Mode:	SRD 3 MHz	Channel:	2438.5 MHz
Line	N	Test Voltage	AC 120 V/60 Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1638	39.06	9.52	48.58	65.27	-16.69	QP
2	0.1638	22.97	9.52	32.49	55.27	-22.78	AVG
3	0.2571	32.69	9.57	42.26	61.52	-19.26	QP
4	0.2571	13.77	9.57	23.34	51.52	-28.18	AVG
5	0.3543	28.45	9.54	37.99	58.86	-20.87	QP
6	0.3543	13.07	9.54	22.61	48.86	-26.25	AVG
7	0.4710	25.33	9.51	34.84	56.50	-21.66	QP
8	0.4710	13.47	9.51	22.98	46.50	-23.52	AVG
9	2.3551	27.22	9.63	36.85	56.00	-19.15	QP
10	2.3551	17.37	9.63	27.00	46.00	-19.00	AVG
11	4.9469	26.32	9.62	35.94	56.00	-20.06	QP
12	4.9469	14.14	9.62	23.76	46.00	-22.24	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

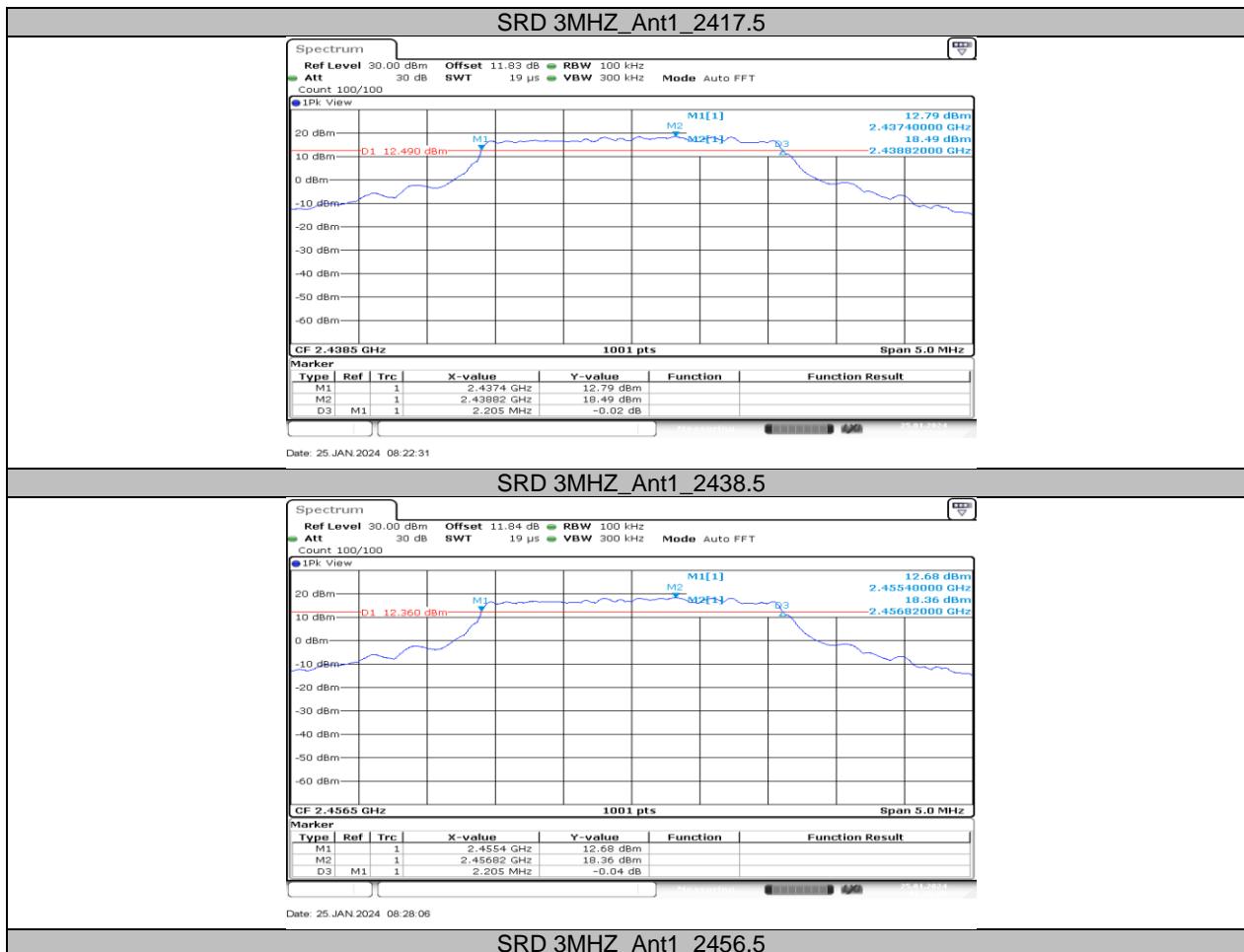
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD 1.4MHz	Ant1	2407.5	1.11	2406.95	2408.06	≥ 0.5	PASS
		2437.5	1.11	2436.95	2438.06	≥ 0.5	PASS
		2465.5	1.11	2464.94	2466.06	≥ 0.5	PASS
SRD 1.4MHz CA	Ant1	2409.12	1.12	2408.56	2409.68	≥ 0.5	PASS
		2437.12	1.12	2436.56	2437.68	≥ 0.5	PASS
		2467.12	1.12	2466.56	2467.68	≥ 0.5	PASS
SRD 3MHz	Ant1	2417.5	2.22	2416.40	2418.62	≥ 0.5	PASS
		2438.5	2.20	2437.40	2439.61	≥ 0.5	PASS
		2456.5	2.20	2455.40	2457.61	≥ 0.5	PASS

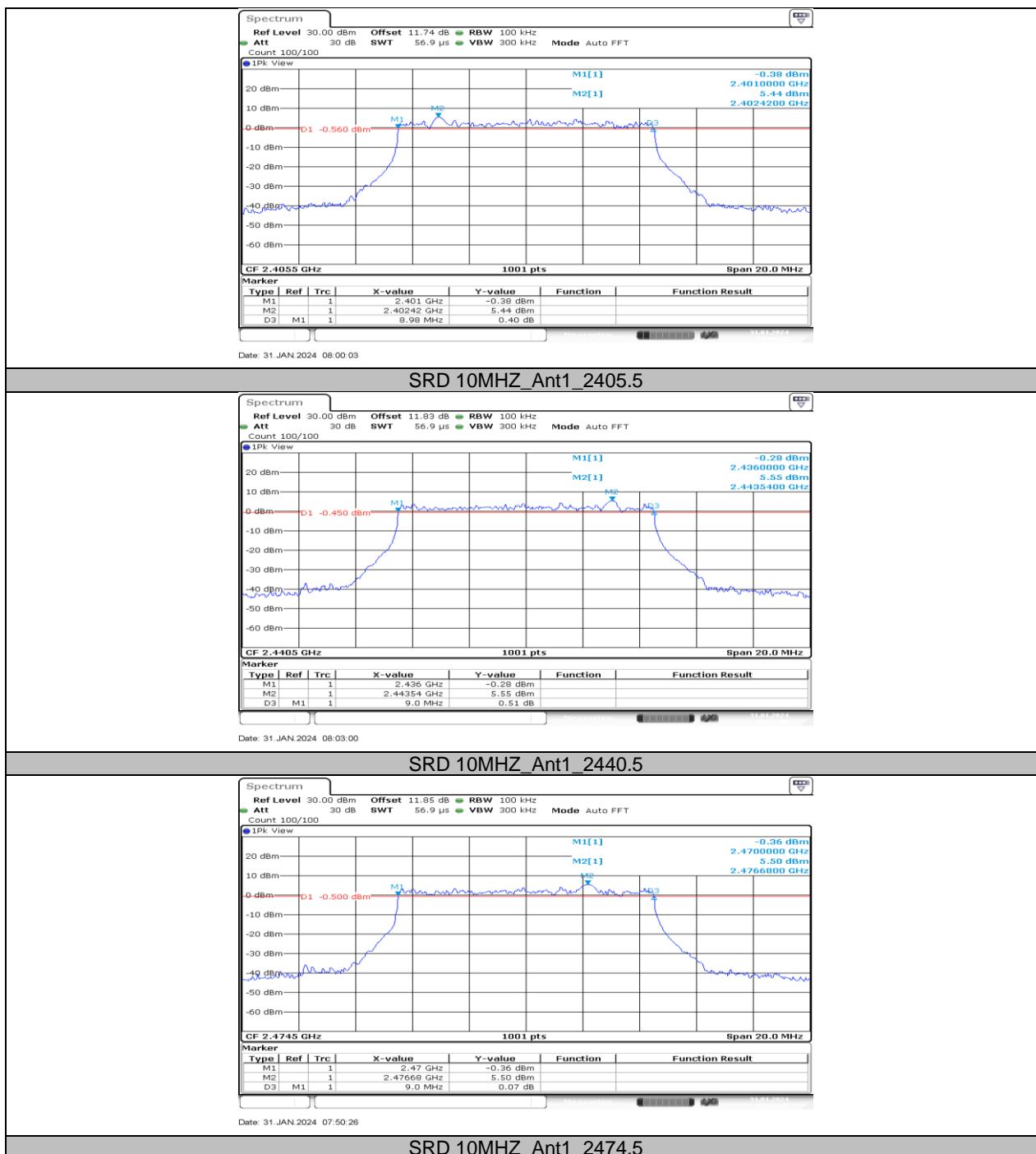
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
SRD 10MHz	Ant1	2405.5	8.98	2401.00	2409.98	≥ 0.5	PASS
		2440.5	9.00	2436.00	2445.00	≥ 0.5	PASS
		2474.5	9.00	2470.00	2479.00	≥ 0.5	PASS
		2475.5	9.02	2471.00	2480.02	≥ 0.5	PASS
		2476.5	8.98	2472.02	2481.00	≥ 0.5	PASS
SRD 20MHz	Ant1	2410.5	17.92	2401.58	2419.50	≥ 0.5	PASS
		2441.5	18.00	2432.50	2450.50	≥ 0.5	PASS
		2472.5	18.00	2463.50	2481.50	≥ 0.5	PASS

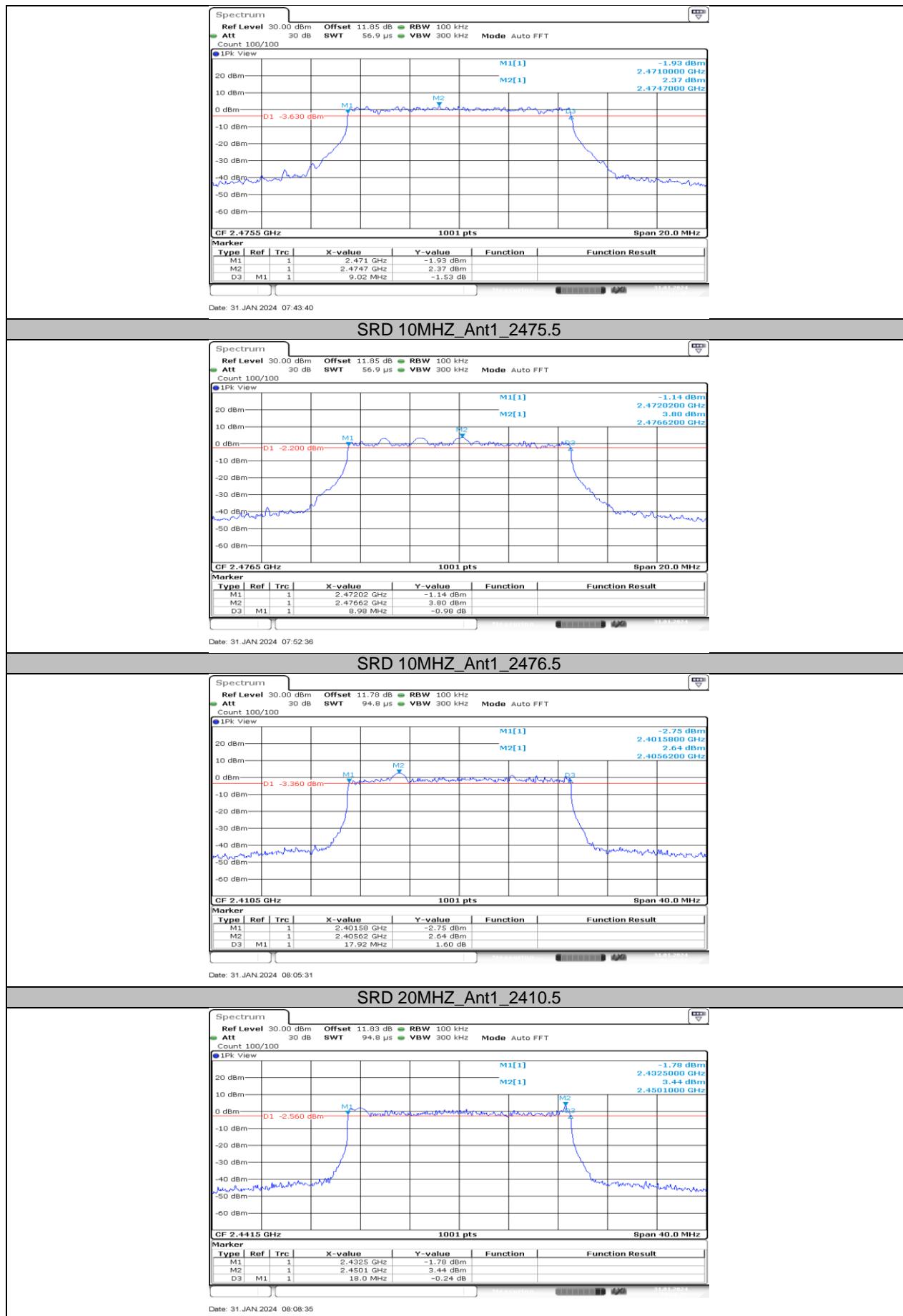
11.1.2. Test Graphs

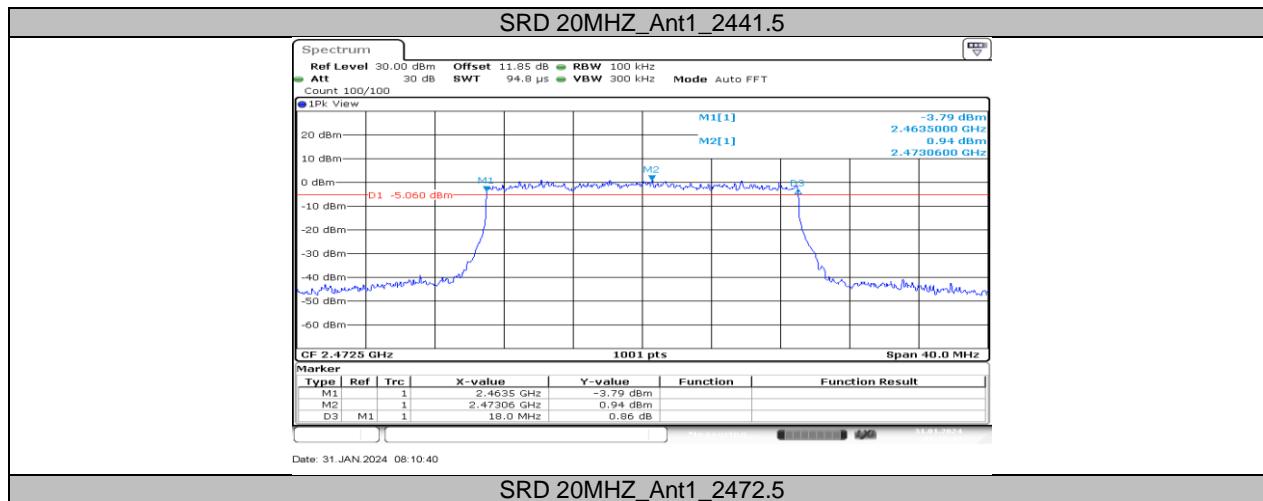












11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
SRD 1.4MHZ	Ant1	2407.5	1.231	2406.8886	2408.1194	PASS
		2437.5	1.243	2436.8806	2438.1234	PASS
		2465.5	1.239	2464.8806	2466.1194	PASS
SRD 1.4MHZ CA	Ant1	2409.12	1.223	2408.5246	2409.7474	PASS
		2437.12	1.259	2436.4846	2437.7434	PASS
		2467.12	1.207	2466.5286	2467.7354	PASS
SRD 3MHZ	Ant1	2417.5	2.238	2416.4011	2418.6389	PASS
		2438.5	2.243	2437.3911	2439.6339	PASS
		2456.5	2.243	2455.3911	2457.6339	PASS

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
SRD 10MHZ	Ant1	2405.5	9.331	2400.8846	2410.2153	PASS
		2440.5	9.271	2435.9046	2445.1753	PASS
		2474.5	9.351	2469.8447	2479.1953	PASS
		2475.5	9.291	2470.8846	2480.1753	PASS
		2476.5	9.271	2471.9046	2481.1753	PASS
SRD 20MHZ	Ant1	2410.5	17.862	2401.6289	2419.4910	PASS
		2441.5	18.022	2432.5090	2450.5310	PASS
		2472.5	18.022	2463.5490	2481.5709	PASS

11.2.2. Test Graphs

