



CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Savage/Savage II

MODEL NUMBER: GV-6218/SC-2065/SC-2066/SC-2067/GV-4345/SC-6206/SC-6207/SC-6208/SC-6153/SC-6154

FCC ID: 2ASK3GV-6128T

REPORT NUMBER: 4789459112-2

ISSUE DATE: May 14, 2020

Prepared for

**AMAX INDUSTRIAL GROUP CHINA CO.,LTD
OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L TUNG CHOI STREET
MONGKOK KOWLOON HONG KONG**

Prepared by

**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch
Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China**

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	05/14/2020	Initial Issue	



Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	20dB Bandwidth and 99% Occupied Bandwidth	CFR 47 FCC §15.215 (c)	Pass
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) CFR 47 FCC §15.205 and §15.209	Pass
3	Antenna Requirement	CFR 47 FCC §15.203	Pass
<p>Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.</p> <p>Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C > when <Accuracy Method> decision rule is applied.</p>			



TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
5. EQUIPMENT UNDER TEST	8
5.1. <i>DESCRIPTION OF EUT</i>	<i>8</i>
5.2. <i>MAXIMUM FIELD STRENGTH.....</i>	<i>8</i>
5.3. <i>CHANNEL LIST.....</i>	<i>8</i>
5.4. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>9</i>
5.5. <i>TEST CHANNEL CONFIGURATION.....</i>	<i>9</i>
5.6. <i>THE WORSE CASE POWER SETTING PARAMETER.....</i>	<i>9</i>
5.7. <i>TEST ENVIRONMENT</i>	<i>9</i>
5.8. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>10</i>
5.9. <i>MEASURING INSTRUMENT AND SOFTWARE USED.....</i>	<i>11</i>
6. ANTENNA PORT TEST RESULTS	12
6.1. <i>ON TIME AND DUTY CYCLE.....</i>	<i>12</i>
6.2. <i>20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH</i>	<i>14</i>
7. RADIATED TEST RESULTS.....	18
7.1. <i>LIMITS AND PROCEDURE</i>	<i>18</i>
7.2. <i>RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS</i> <i>24</i>	
7.3. <i>SPURIOUS EMISSIONS (1~3GHz).....</i>	<i>30</i>
7.4. <i>SPURIOUS EMISSIONS (3~18GHz).....</i>	<i>36</i>
7.5. <i>SPURIOUS EMISSIONS (18~26GHz).....</i>	<i>42</i>
7.6. <i>SPURIOUS EMISSIONS BELOW 30MHz</i>	<i>44</i>
7.7. <i>SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz.....</i>	<i>47</i>
8. ANTENNA REQUIREMENTS.....	49



1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD
Address: OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L
TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

Manufacturer Information

Company Name: AMAX INDUSTRIAL GROUP CHINA CO.,LTD
Address: OFFICE NO.3 10/F WITTY COMMERCIAL BUILDING 1A-1L
TUNG CHOI STREET MONGKOK KOWLOON HONG KONG

EUT Information

EUT Name: Savage/Savage II
Model: GV-6128
Series Model: SC-2065/SC-2066/SC-2067/GV-4345/SC-6206/SC-6207/SC-6208/SC-6153/SC-6154
Model difference: All the same except for the model name and color.
Sample Received Date: April 13, 2020
Sample Status: Normal
Date of Tested: April 15, 2020~ April 30, 2020

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

Prepared By:

Mick Zhang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo
Laboratory Manager



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, 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.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) 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. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
---------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Note:

1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
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.
3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz 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	3.62dB
Radiation Emission test (include Fundamental emission) (9KHz-30MHz)	2.2dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	4.00dB
Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	5.78dB (1GHz-18GHz)
	5.23dB (18GHz-26GHz)
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	Savage/Savage II	
EUT Description	The EUT is a wireless remote controller.	
Model	GV-6128	
Series Model	SC-2065/SC-2066/SC-2067/GV-4345/SC-6206/SC-6207/SC-6208/SC-6153/SC-6154	
Model difference	All the same except for the model name and color.	
Product Description	Operation Frequency	2405 MHz ~ 2475 MHz
	Modulation Type	GFSK
Battery	DC 6V	

5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Channel Number	Max Peak field strength (dB μ V/m)
2475	71[71]	97.27

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	19	2423	37	2441	55	2459
2	2406	20	2424	38	2442	56	2460
3	2407	21	2425	39	2443	57	2461
4	2408	22	2426	40	2444	58	2462
5	2409	23	2427	41	2445	59	2463
6	2410	24	2428	42	2446	60	2464
7	2411	25	2429	43	2447	61	2465
8	2412	26	2430	44	2448	62	2466
9	2413	27	2431	45	2449	63	2467
10	2414	28	2432	46	2450	64	2468
11	2415	29	2433	47	2451	65	2469
12	2416	30	2434	48	2452	66	2470
13	2417	31	2435	49	2453	67	2471
14	2418	32	2436	50	2454	68	2472
15	2419	33	2437	51	2455	69	2473
16	2420	34	2438	52	2456	70	2474
17	2421	35	2439	53	2457	71	2475
18	2422	36	2440	54	2458	72	/

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2405~ 2475	Wire Antenna	0

Test Mode	Transmit and Receive Mode	Description
GFSK	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

5.5. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK	CH 1(Low Channel), CH 36(MID Channel), CH 71(High Channel)	2405MHz, 2440MHz, 2475MHz

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2405 MHz ~ 2475 MHz Band				
Test Software Version		/		
Modulation Type	Transmit Antenna Number	Test Channel		
		CH 1	CH36	CH 71
GFSK	1	Default	Default	Default

5.7. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	1025Pa	
Temperature	TN	22 ~ 28°C
	VL	/
Voltage:	VN	DC 7.4V
	VH	/

Note: VL= Lower Extreme Test Voltage
 VN= Nominal Voltage
 VH= Upper Extreme Test Voltage
 TN= Normal Temperature



5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
/	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

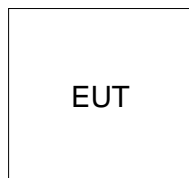
ACCESSORY

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

TEST SETUP

The EUT have the engineer mode inside.

SETUP DIAGRAM FOR TEST



Note: New battery was used during all tests.

**5.9. MEASURING INSTRUMENT AND SOFTWARE USED**

Radiated Emissions						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Dec. 6, 2019	Dec. 6, 2020
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Sept.17, 2018	Sept.17,2021
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A09099	Dec. 5, 2019	Dec. 5, 2020
<input checked="" type="checkbox"/>	EMI Measurement Receiver	R&S	ESR26	101377	Dec. 05, 2019	Dec.05, 2020
<input checked="" type="checkbox"/>	Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept.17,2021
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Dec. 05, 2019	Dec.05, 2020
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Jan.17, 2019	Jan.17, 2022
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Dec. 05, 2019	Dec.05, 2020
<input checked="" type="checkbox"/>	High Gain Horn Antenna	Schwarzbeck	BBHA-9170	691	Aug.11,2018	Aug.11,2021
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-2	TRS-307-00003	Dec. 05, 2019	Dec.05, 2020
Software						
Used	Description	Manufacturer	Name	Version		
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance	Farad	EZ-EMC	Ver. UL-3A1		
Other instruments						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Dec. 05, 2019	Dec.05, 2020
<input checked="" type="checkbox"/>	Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Dec. 05, 2019	Dec.05, 2020

6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

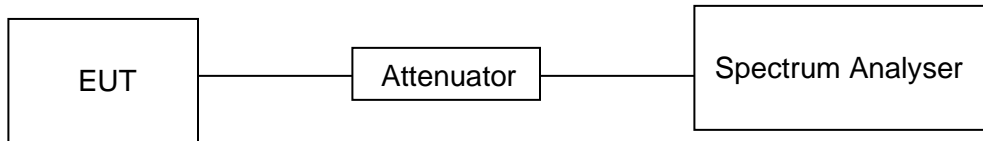
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

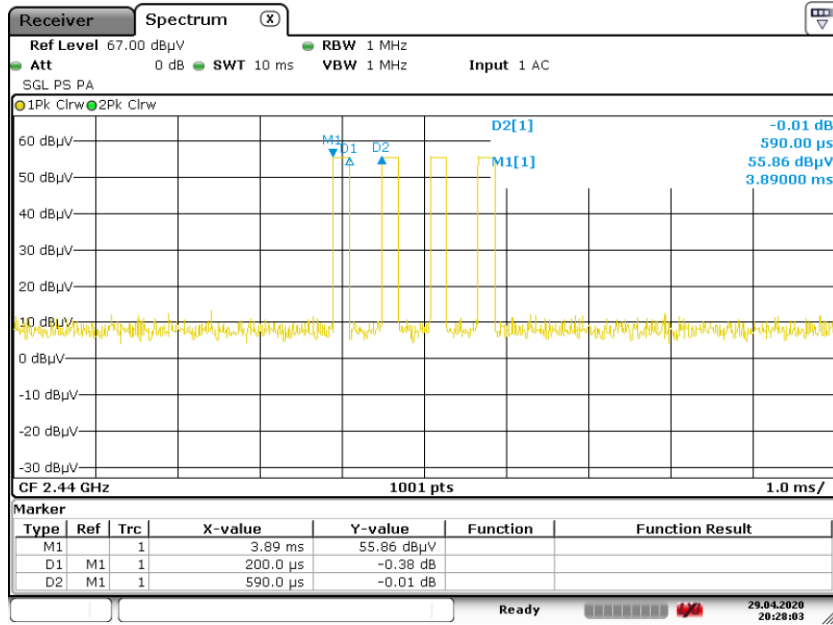
Temperature	22.8°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V

RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	12.8	100	0.128	12.8	-17.86

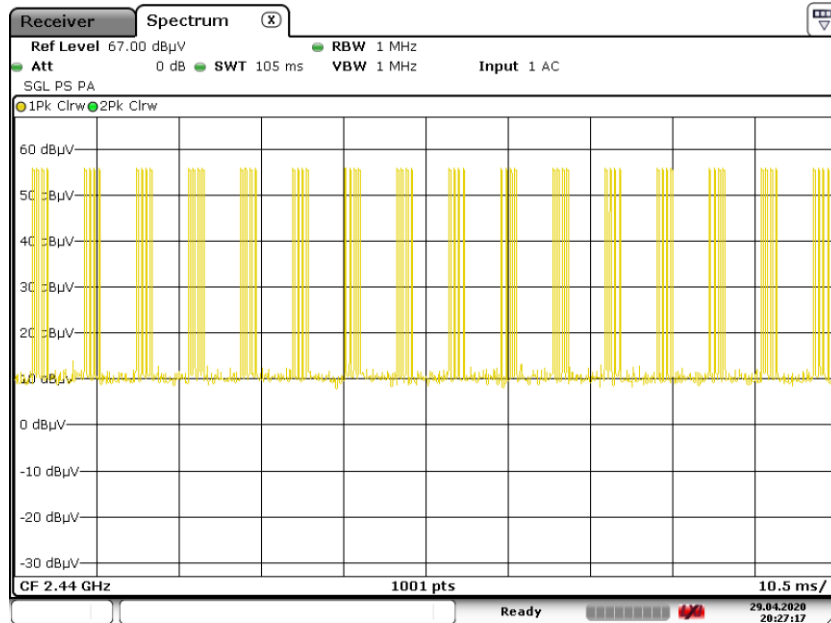
Note: Duty Cycle Correction Factor=20log(x).
Where: x is Duty Cycle

ON TIME AND DUTY CYCLE MID CH PLOT



Date: 29.APR.2020 20:28:03

ON TIME AND DUTY CYCLE MID CH PLOT-2



Date: 29.APR.2020 20:27:16

Note: All the modes had been tested, but only the worst duty cycle recorded in the report.

6.2. 20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.249) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.215 (c)	20dB Bandwidth	for reporting purposes only	2400-2483.5
ISED RSS-Gen Clause 6.7 Issue 5	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5

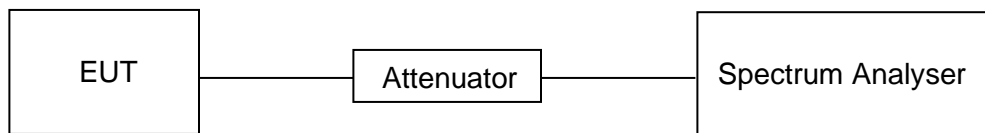
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto couple

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/99% relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

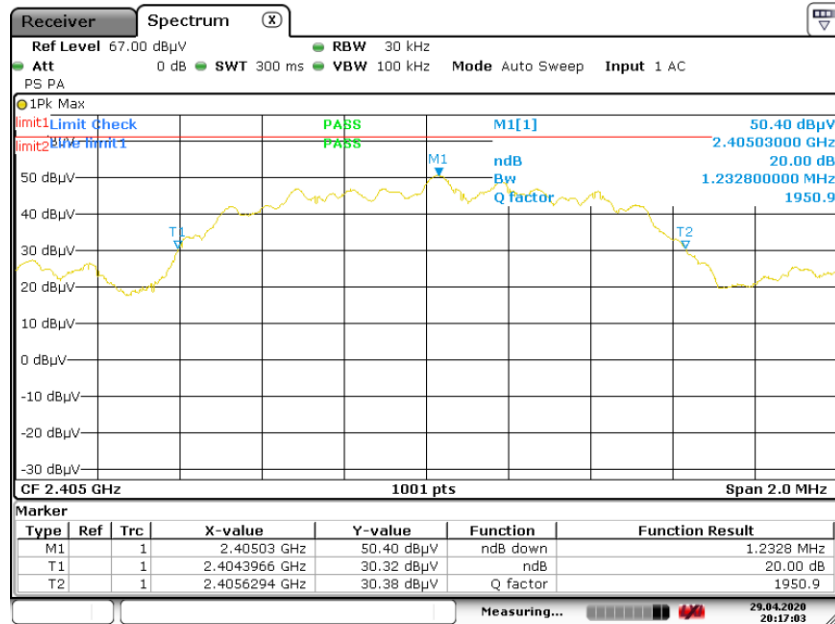
Temperature	22.8°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V



RESULTS

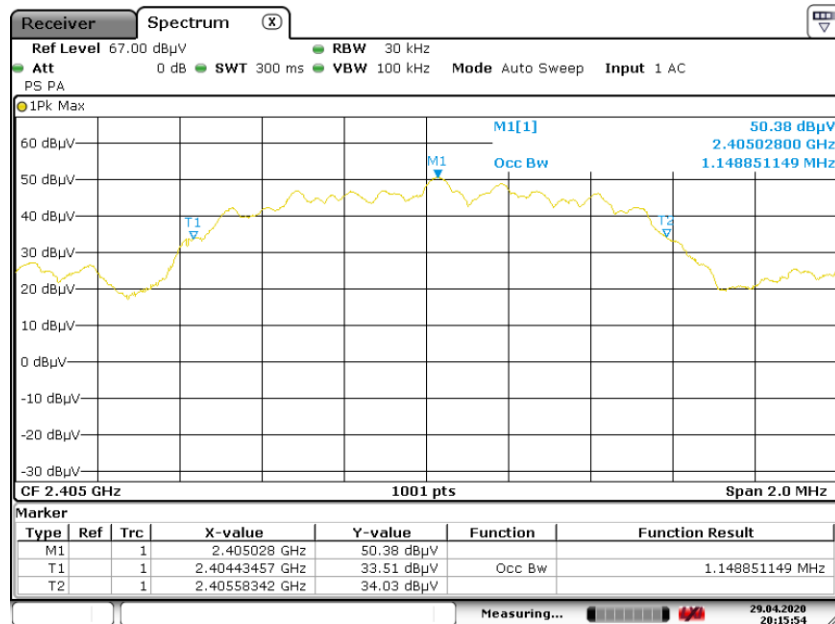
Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2405	1.2328	1.1489	PASS

20 dB BANDWIDTH LOW CH



Date: 29.APR.2020 20:17:03

99% OCCUPIED BANDWIDTH LOW CH

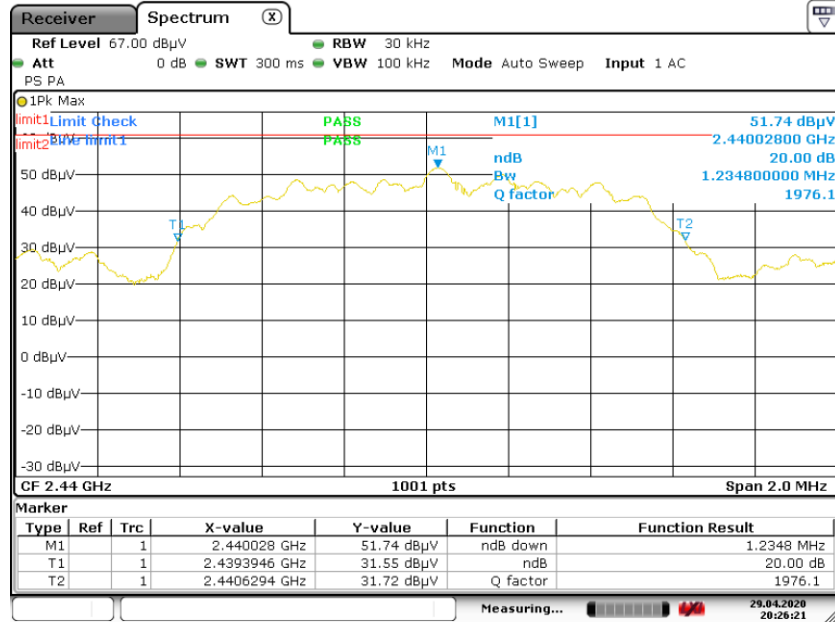


Date: 29.APR.2020 20:15:54



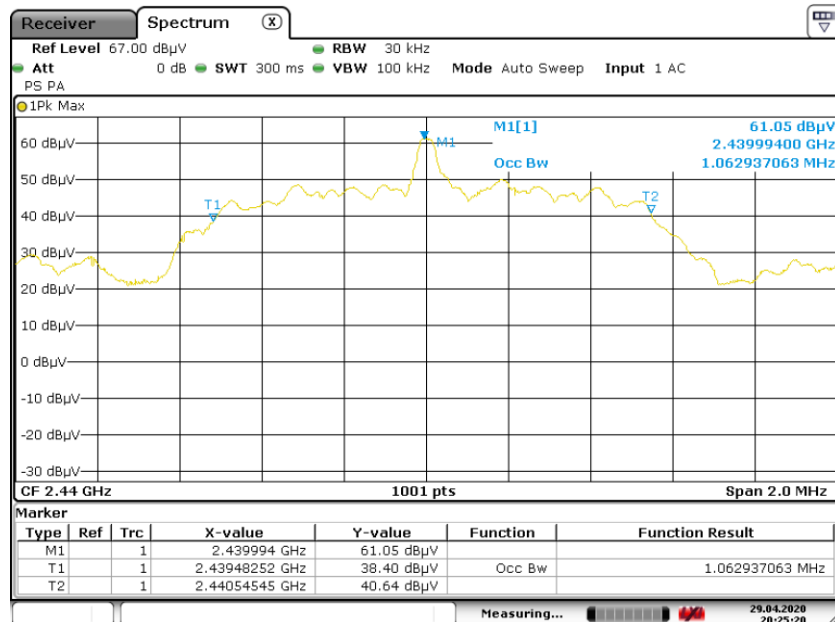
Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2440	1.2348	1.0629	PASS

20 dB BANDWIDTH MID CH



Date: 29.APR.2020 20:26:21

99% OCCUPIED BANDWIDTH MID CH

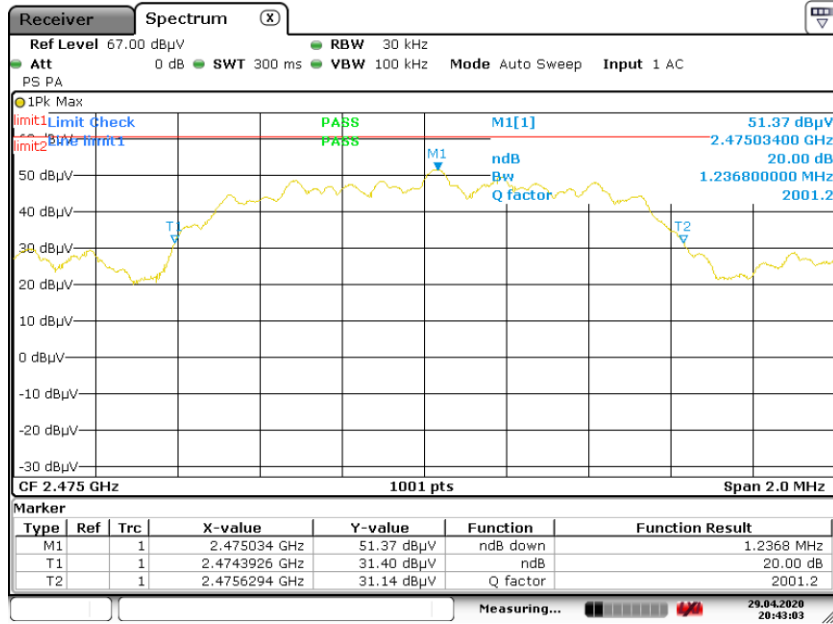


Date: 29.APR.2020 20:25:20



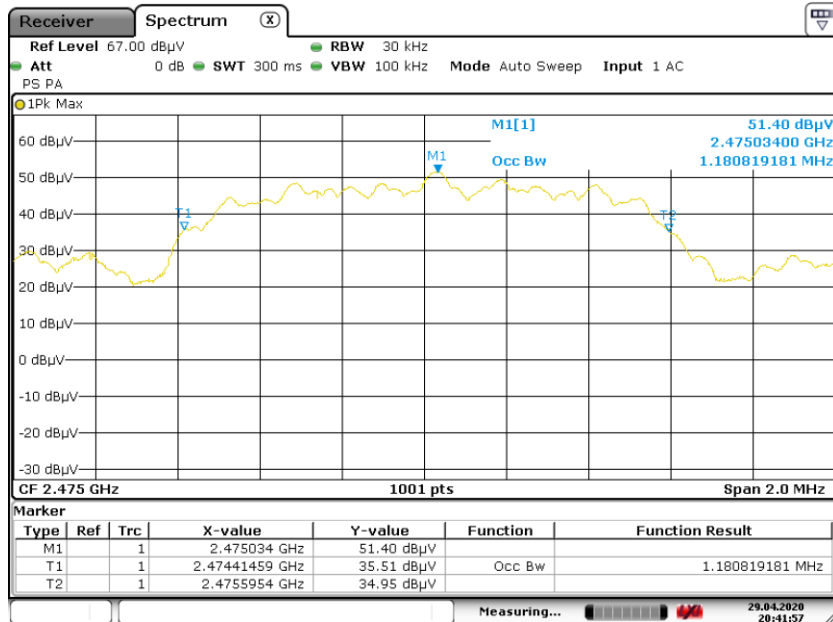
Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2475	1.2368	1.1808	PASS

20 dB BANDWIDTH HIG CH



Date: 29.APR.2020 20:43:03

99% OCCUPIED BANDWIDTH HIG CH



Date: 29.APR.2020 20:41:57



7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

CFR 47 FCC §15.205 and §15.209

CFR 47 FCC §15.249 (a)(d)(c)(e)

The field strength of emissions from intentional radiators operated within these frequency bands			
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3

Emissions radiated outside of the specified frequency bands above 30MHz		
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 30MHz		
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:

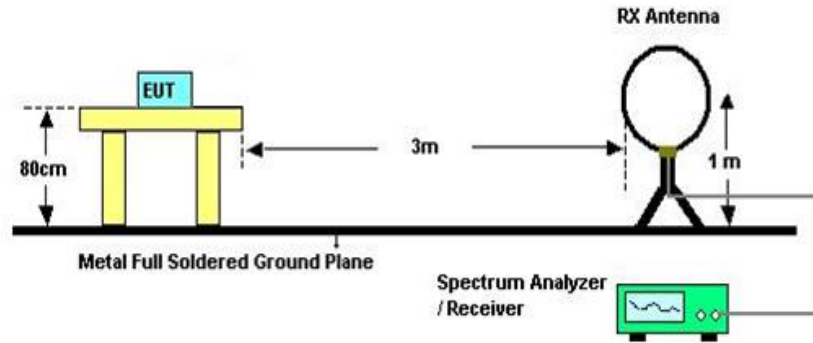
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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 SETUP AND PROCEDURE

Below 30MHz

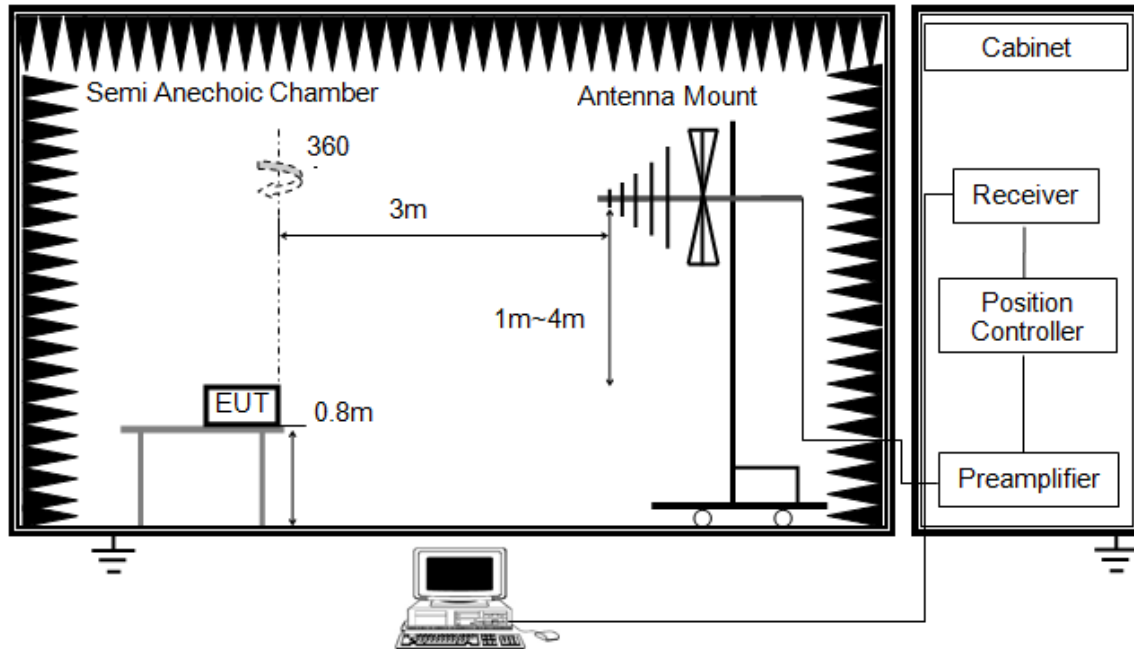


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
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 80cm meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m 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 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
6. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G

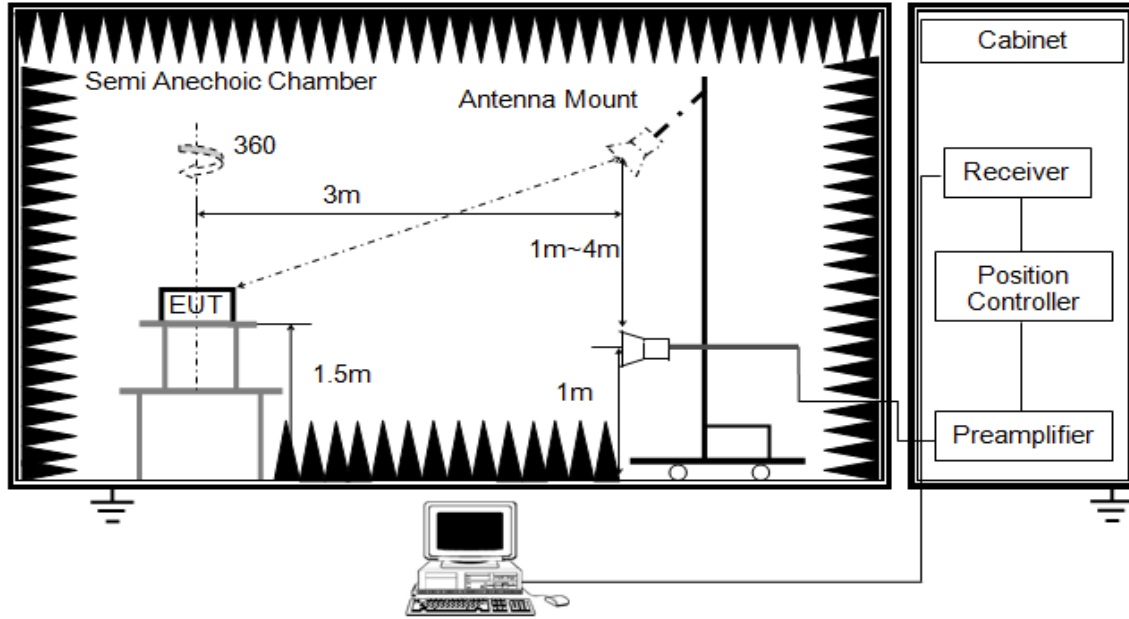


The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013.
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 80cm 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. 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

Above 1G

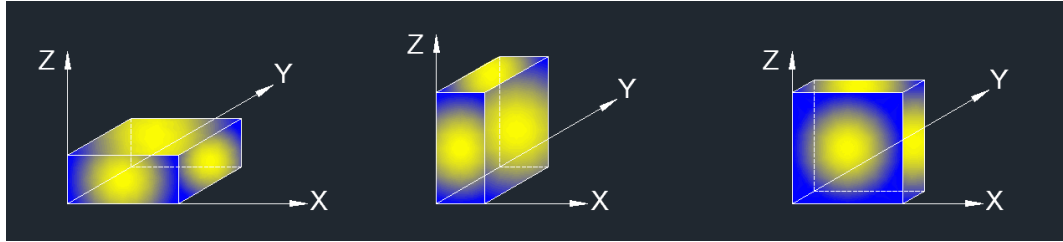


The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter or band reject 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 150 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 measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. Where necessary, average emission are determined by applying the Duty Cycle Correction Factor to the peak measurements. For the Duty Cycle and Correction Factor please refer to clause 6.1. 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.

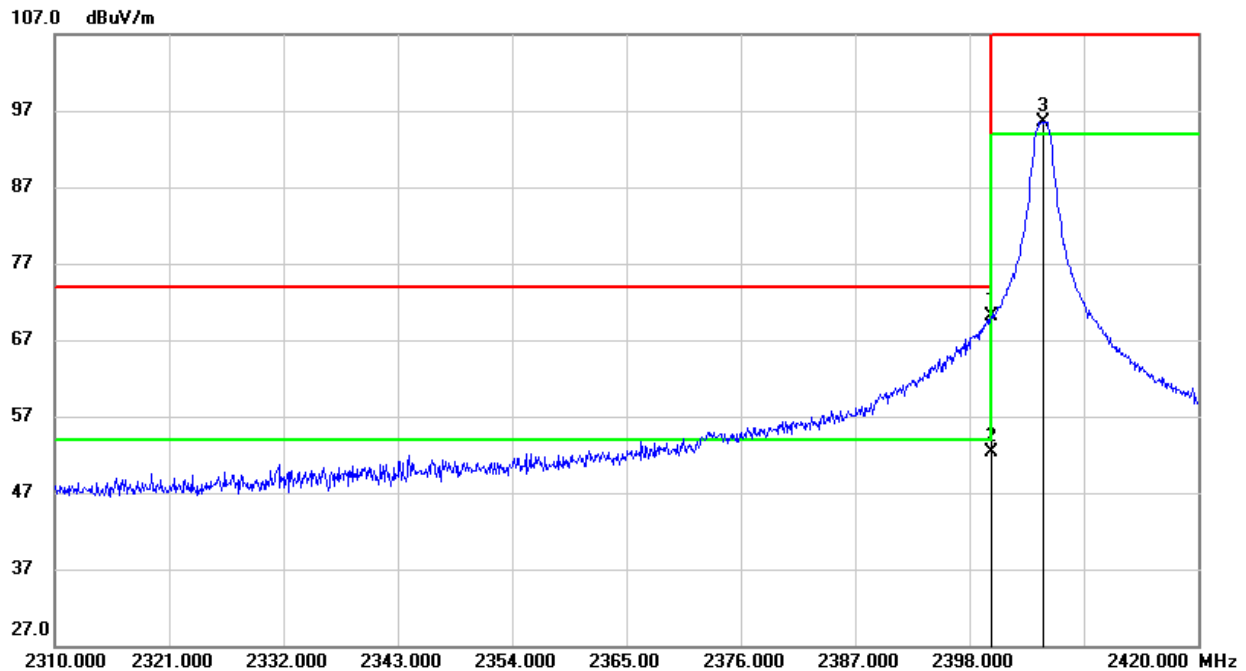
TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	60%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.0V



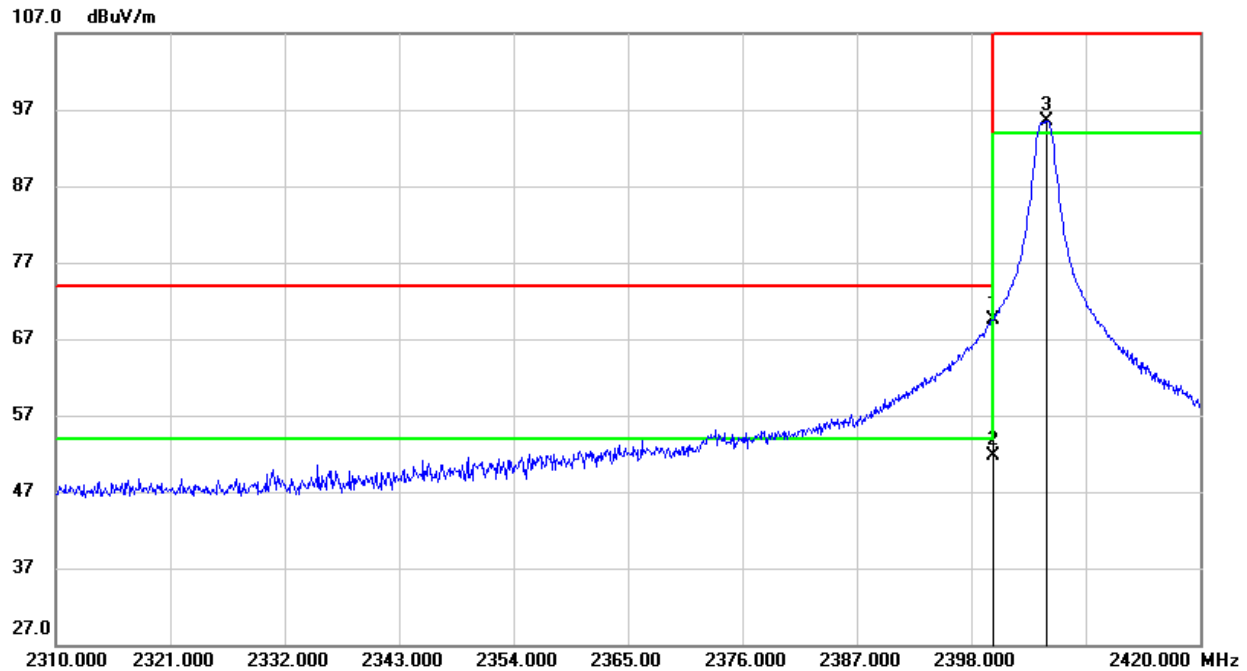
7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2400.000	37.09	32.98	70.07	74.00	-3.93	peak
2	2400.000	19.23	32.98	52.21	54.00	-1.79	AVG
3	2405.040	62.46	33.02	95.48	114.00	-18.52	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

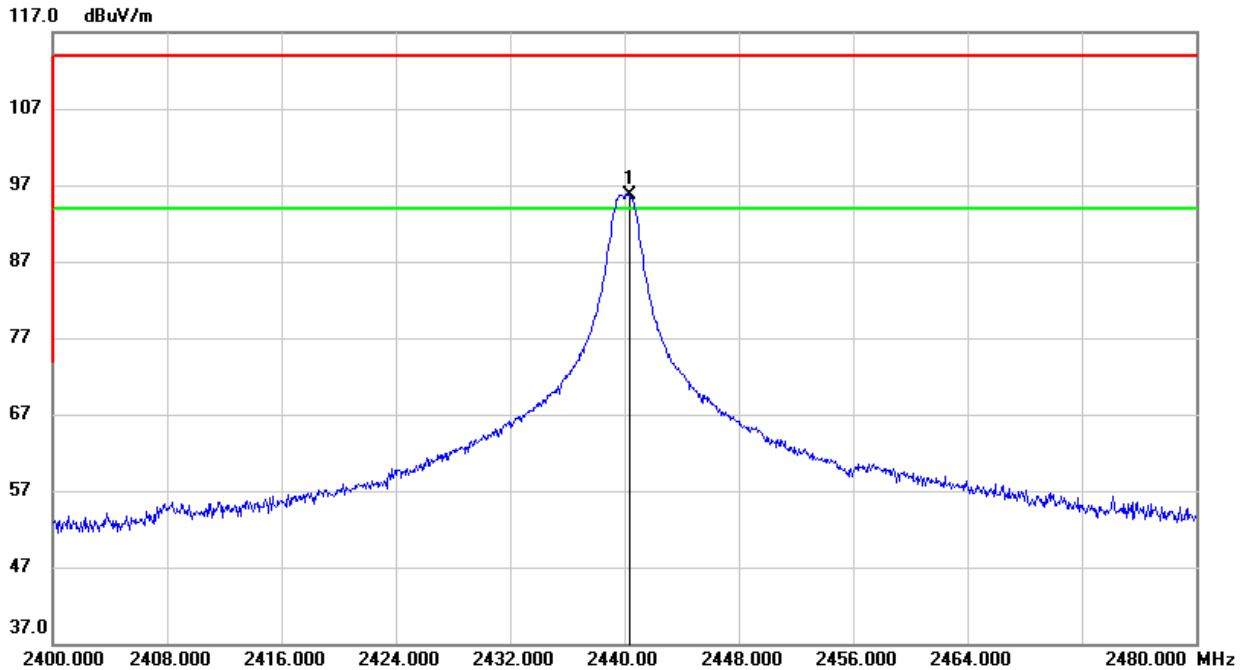
**RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2400.000	36.50	32.98	69.48	74.00	-4.52	peak
2	2400.000	18.64	32.98	51.62	54.00	-2.38	AVG
3	2405.260	62.44	33.02	95.46	114.00	-18.54	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

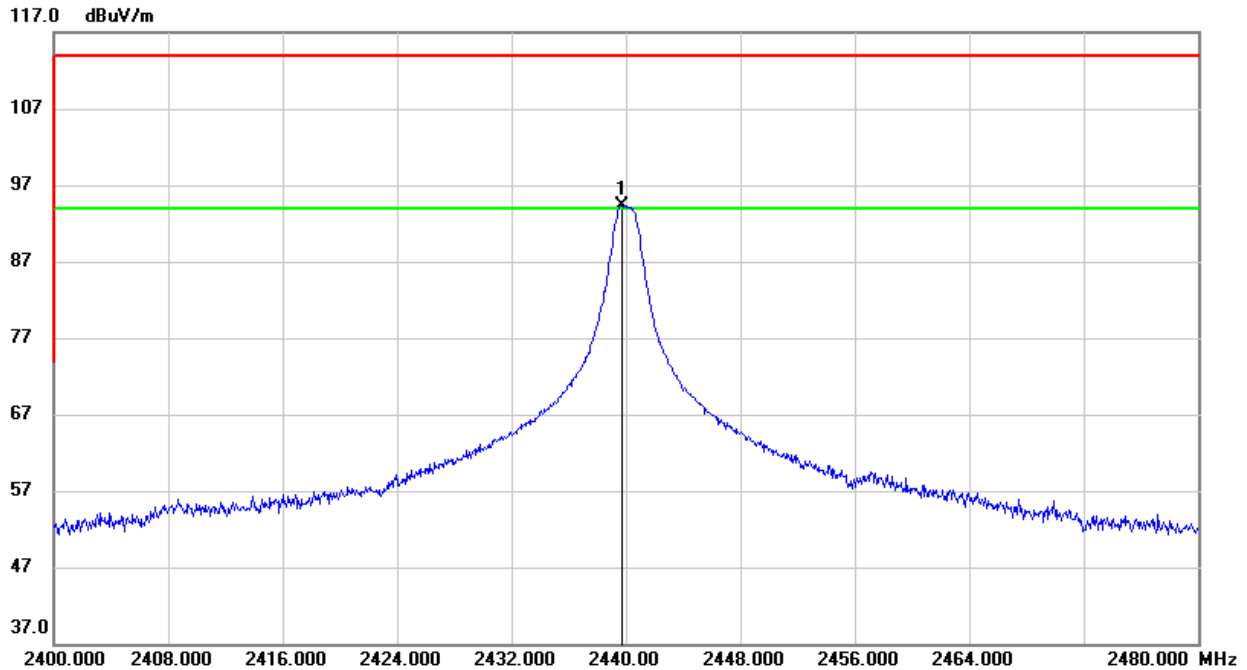


FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, HORIZONTAL)



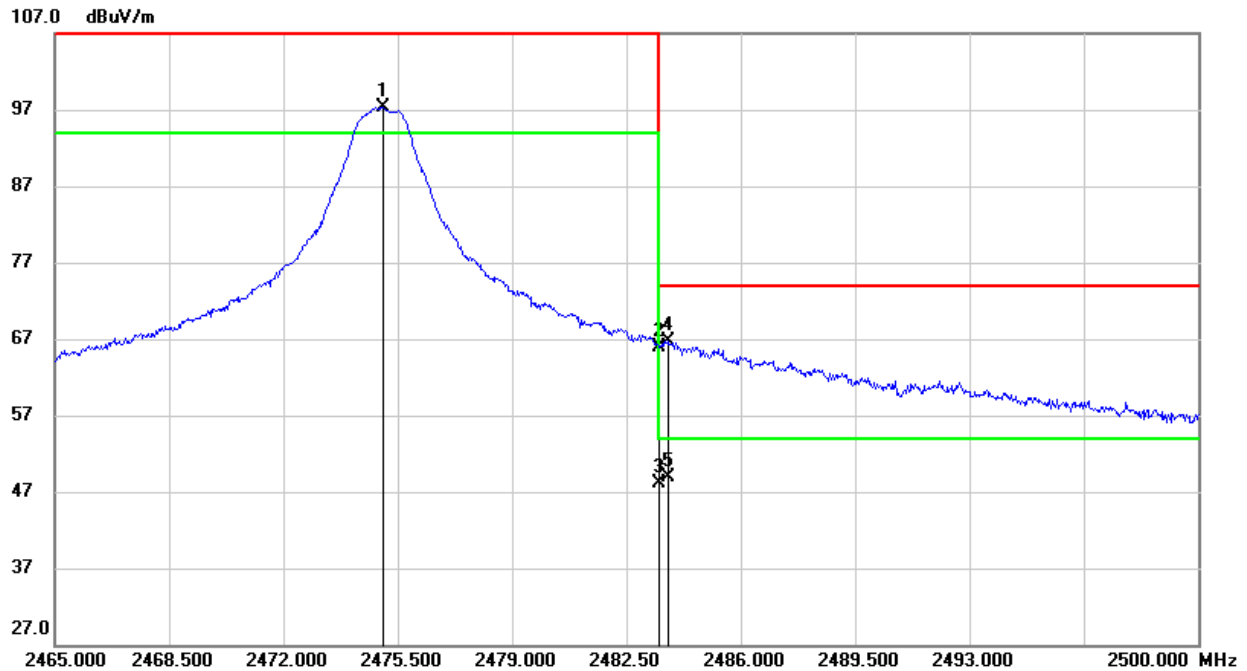
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2440.320	62.47	33.27	95.74	114.00	-18.26	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2439.760	61.05	33.26	94.31	114.00	-19.69	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

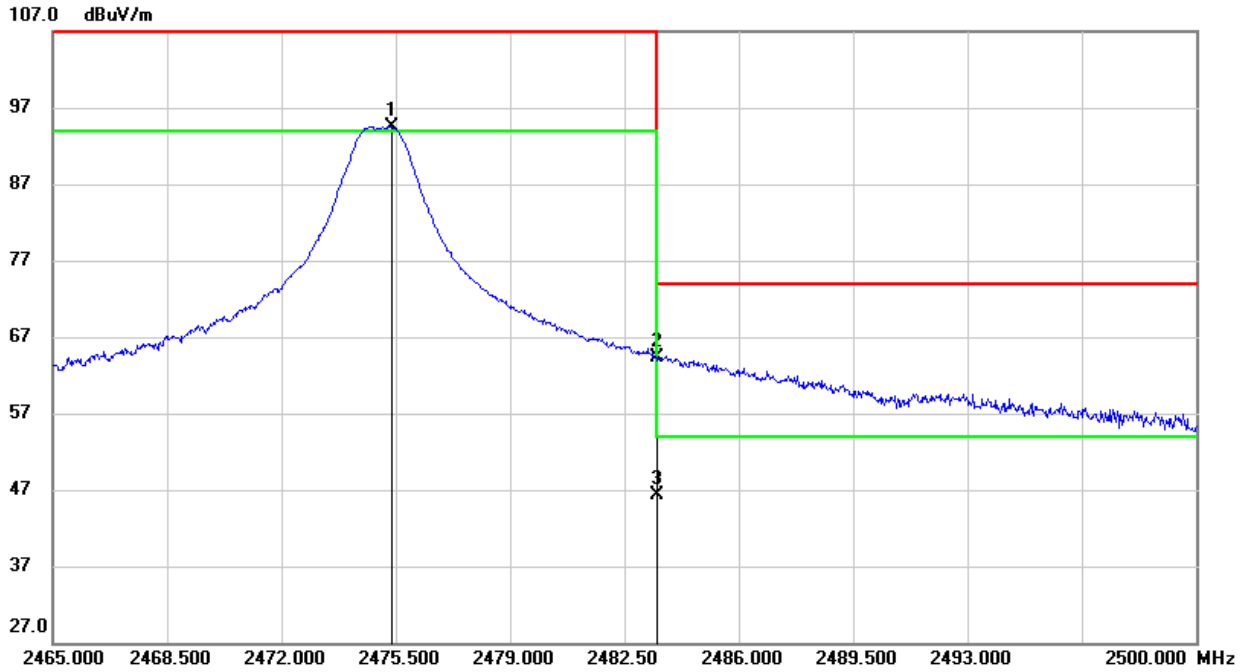
**RESTRICTED BANDEGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2475.045	63.75	33.52	97.27	114.00	-16.73	peak
2	2483.500	32.41	33.58	65.99	74.00	-8.01	peak
3	2483.500	14.55	33.58	48.13	54.00	-5.87	AVG
4	2483.795	33.17	33.58	66.75	74.00	-7.25	peak
5	2483.795	15.31	33.58	48.89	54.00	-5.11	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)

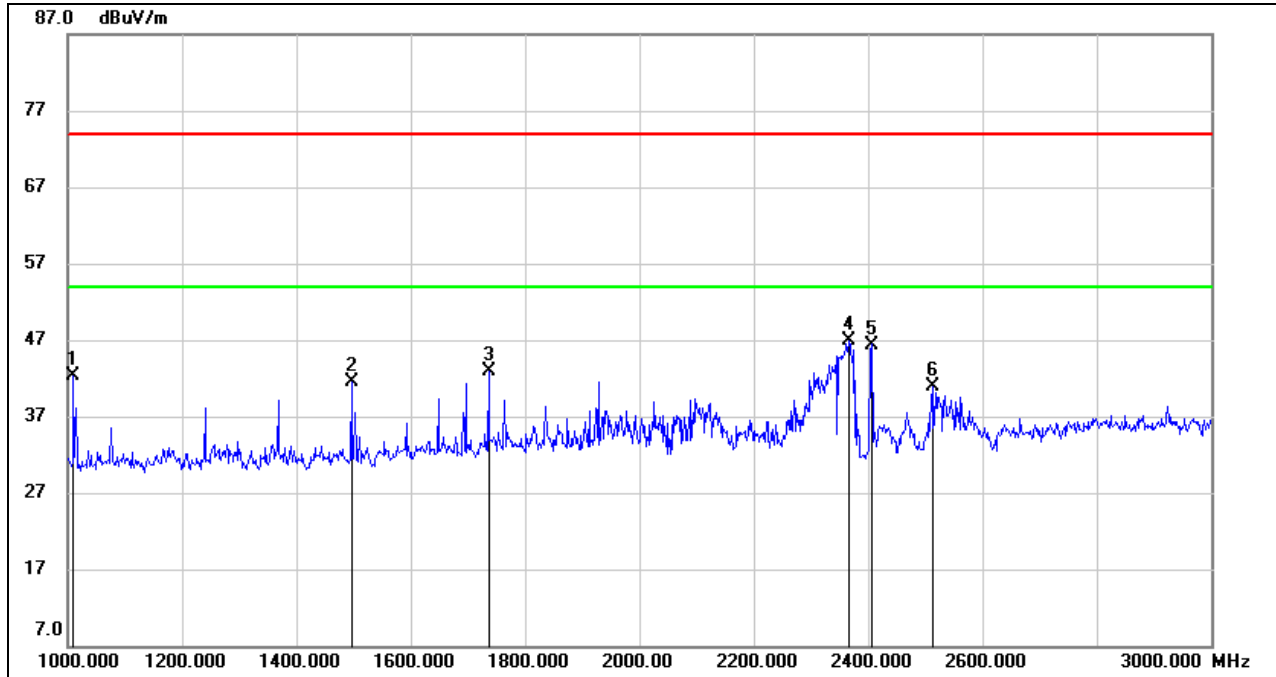


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2475.360	60.95	33.53	94.48	114.00	-19.52	peak
2	2483.500	30.65	33.58	64.23	74.00	-9.77	peak
3	2483.500	12.79	33.58	46.37	54.00	-7.63	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

7.3. SPURIOUS EMISSIONS (1~3GHz)

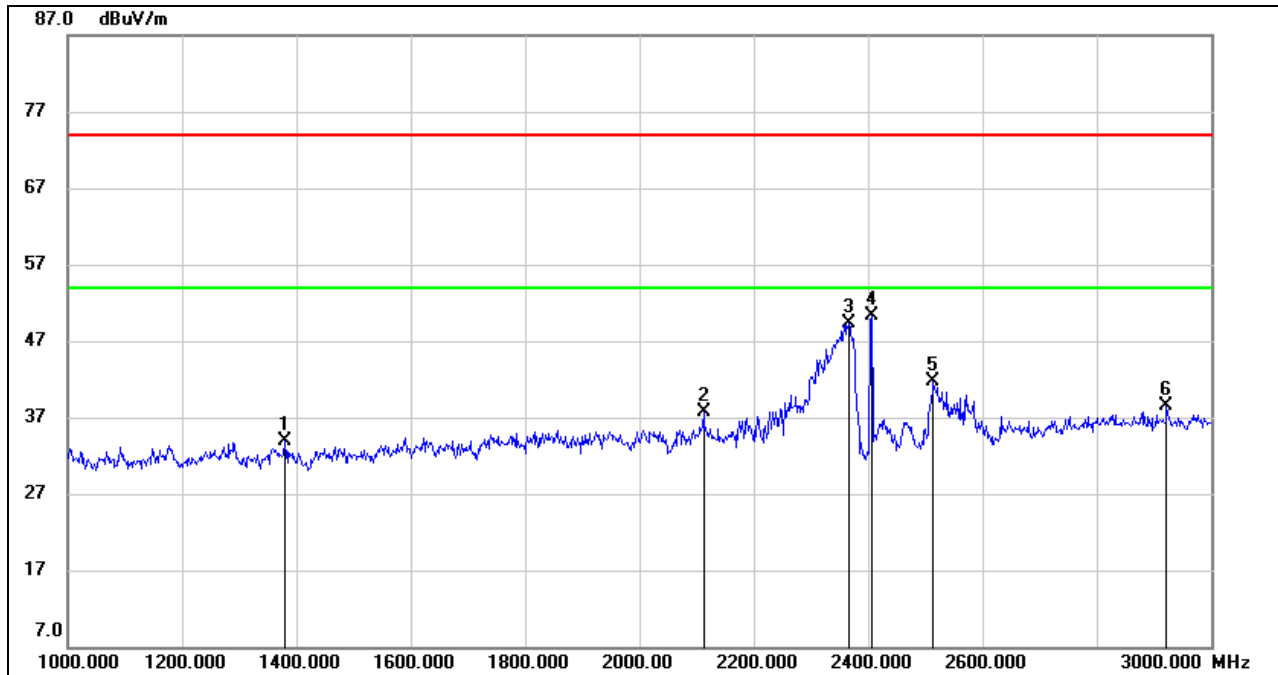
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1010.000	55.95	-13.58	42.37	74.00	-31.63	peak
2	1496.000	53.76	-12.22	41.54	74.00	-32.46	peak
3	1736.000	53.40	-10.54	42.86	74.00	-31.14	peak
4	2366.000	54.94	-7.97	46.97	74.00	-27.03	peak
5	2405.000	54.21	-7.81	46.40	/	/	fundamental
6	2514.000	48.21	-7.24	40.97	74.00	-33.03	peak

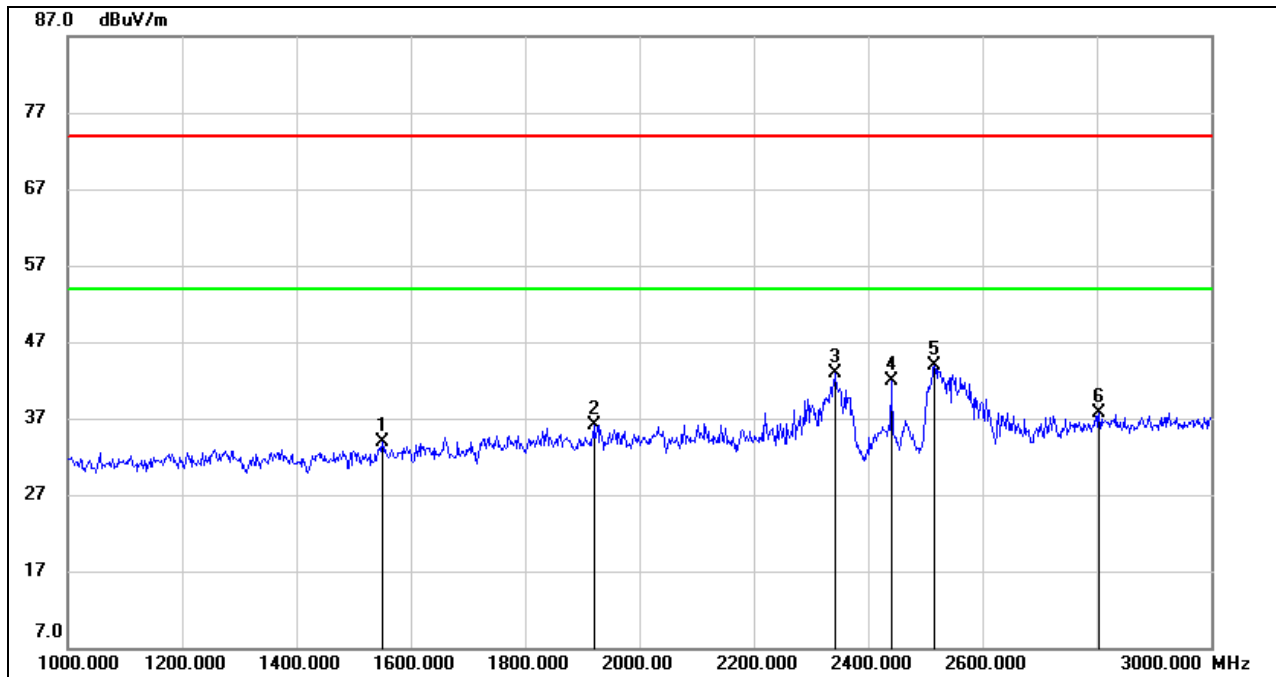
- Note: 1. Peak Result = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1380.000	46.21	-12.38	33.83	74.00	-40.17	peak
2	2112.000	46.88	-9.10	37.78	74.00	-36.22	peak
3	2366.000	57.25	-7.97	49.28	74.00	-24.72	peak
4	2405.000	58.17	-7.81	50.36	/	/	fundamental
5	2514.000	49.00	-7.24	41.76	74.00	-32.24	peak
6	2922.000	43.99	-5.47	38.52	74.00	-35.48	peak

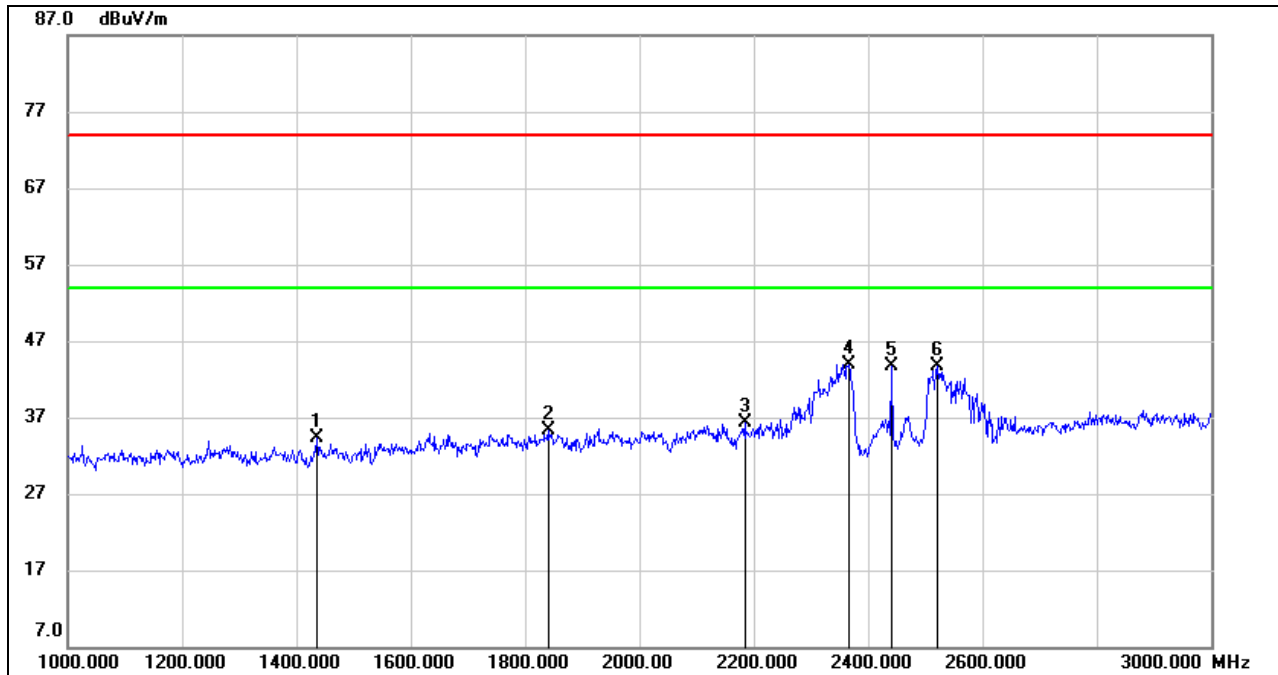
- Note: 1. Peak Result = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1550.000	45.65	-11.81	33.84	74.00	-40.16	peak
2	1922.000	46.03	-9.93	36.10	74.00	-37.90	peak
3	2342.000	50.86	-8.05	42.81	74.00	-31.19	peak
4	2440.000	49.44	-7.59	41.85	/	/	fundamental
5	2516.000	51.13	-7.25	43.88	74.00	-30.12	peak
6	2804.000	43.74	-6.04	37.70	74.00	-36.30	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

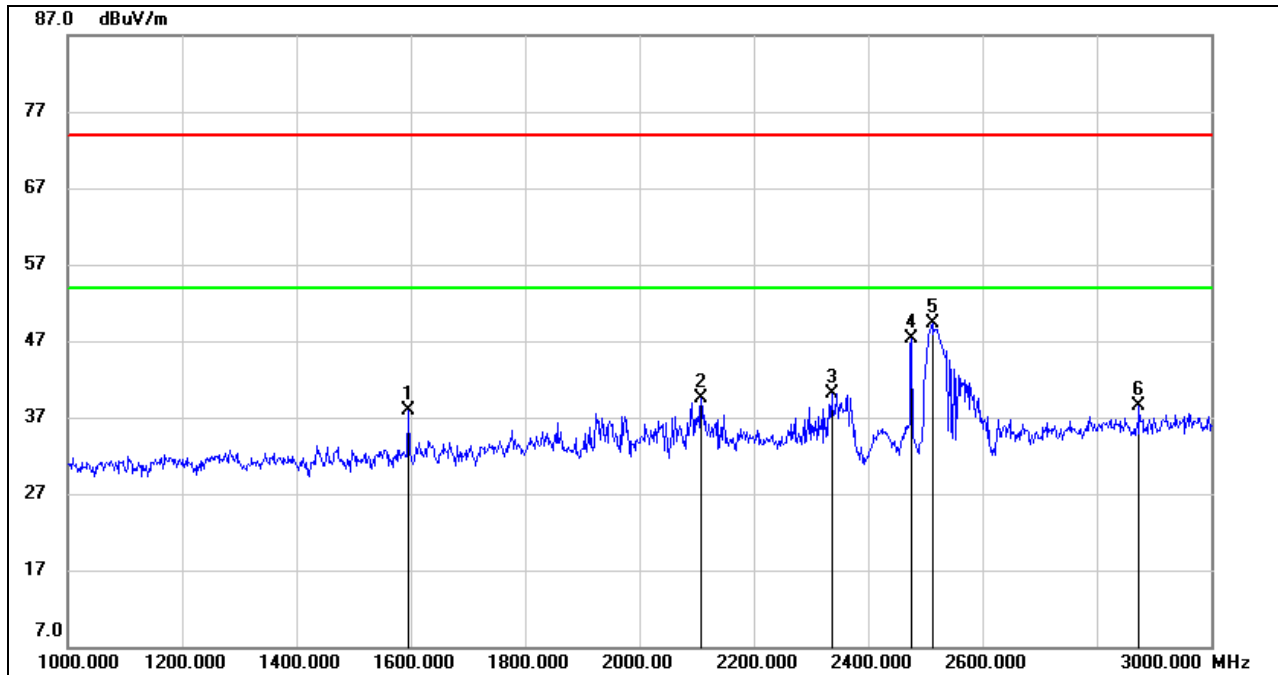
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1436.000	46.55	-12.33	34.22	74.00	-39.78	peak
2	1840.000	45.14	-9.93	35.21	74.00	-38.79	peak
3	2184.000	45.13	-8.74	36.39	74.00	-37.61	peak
4	2366.000	51.89	-7.97	43.92	74.00	-30.08	peak
5	2440.000	51.21	-7.59	43.62	/	/	fundamental
6	2522.000	50.92	-7.28	43.64	74.00	-30.36	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

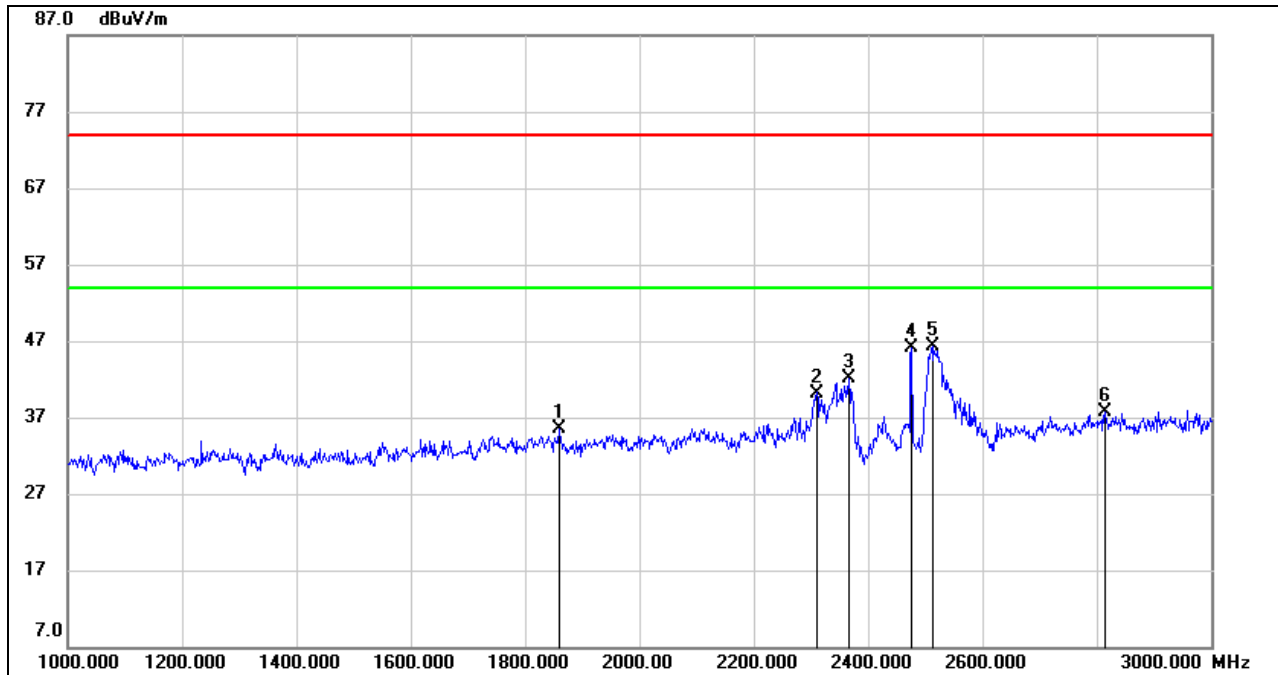
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1596.000	49.37	-11.44	37.93	74.00	-36.07	peak
2	2108.000	48.58	-9.12	39.46	74.00	-34.54	peak
3	2336.000	48.16	-8.07	40.09	74.00	-33.91	peak
4	2475.000	54.59	-7.33	47.26	/	/	fundamental
5	2512.000	56.59	-7.23	49.36	74.00	-24.64	peak
6	2874.000	44.18	-5.66	38.52	74.00	-35.48	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

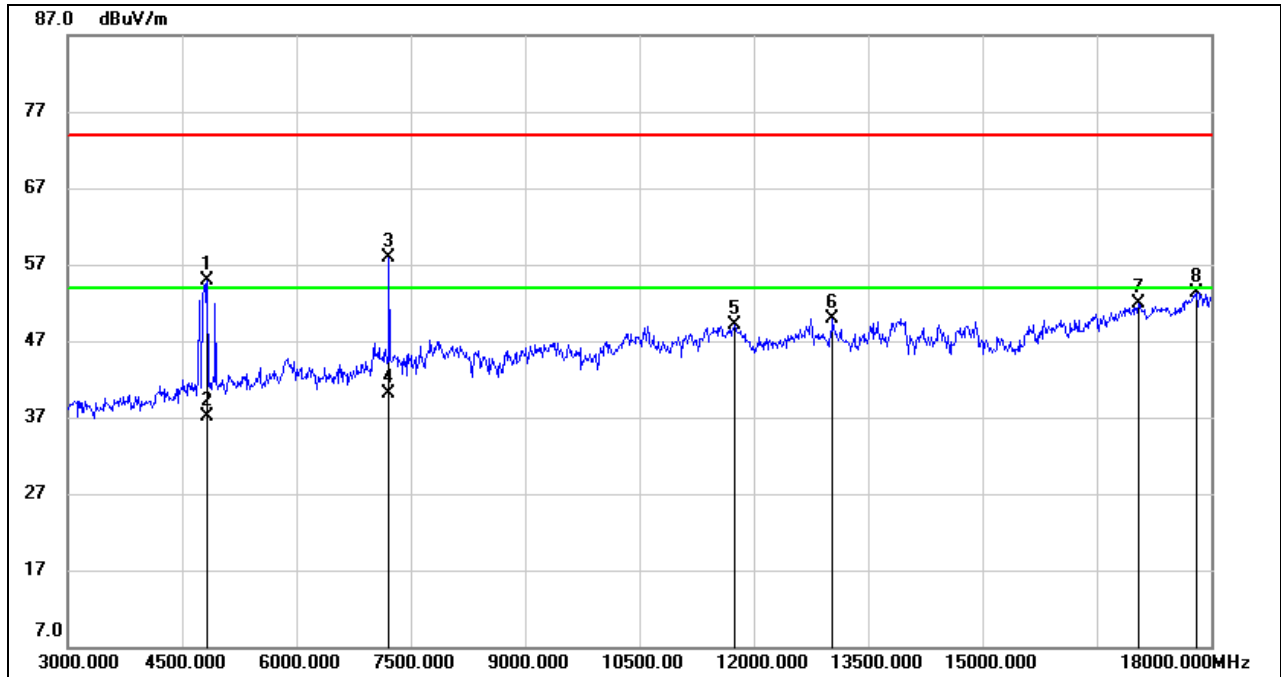


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1860.000	45.39	-9.93	35.46	74.00	-38.54	peak
2	2310.000	48.36	-8.16	40.20	74.00	-33.80	peak
3	2366.000	50.09	-7.97	42.12	74.00	-31.88	peak
4	2475.000	53.38	-7.33	46.05	/	/	fundamental
5	2512.000	53.51	-7.23	46.28	74.00	-27.72	peak
6	2814.000	43.63	-5.98	37.65	74.00	-36.35	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

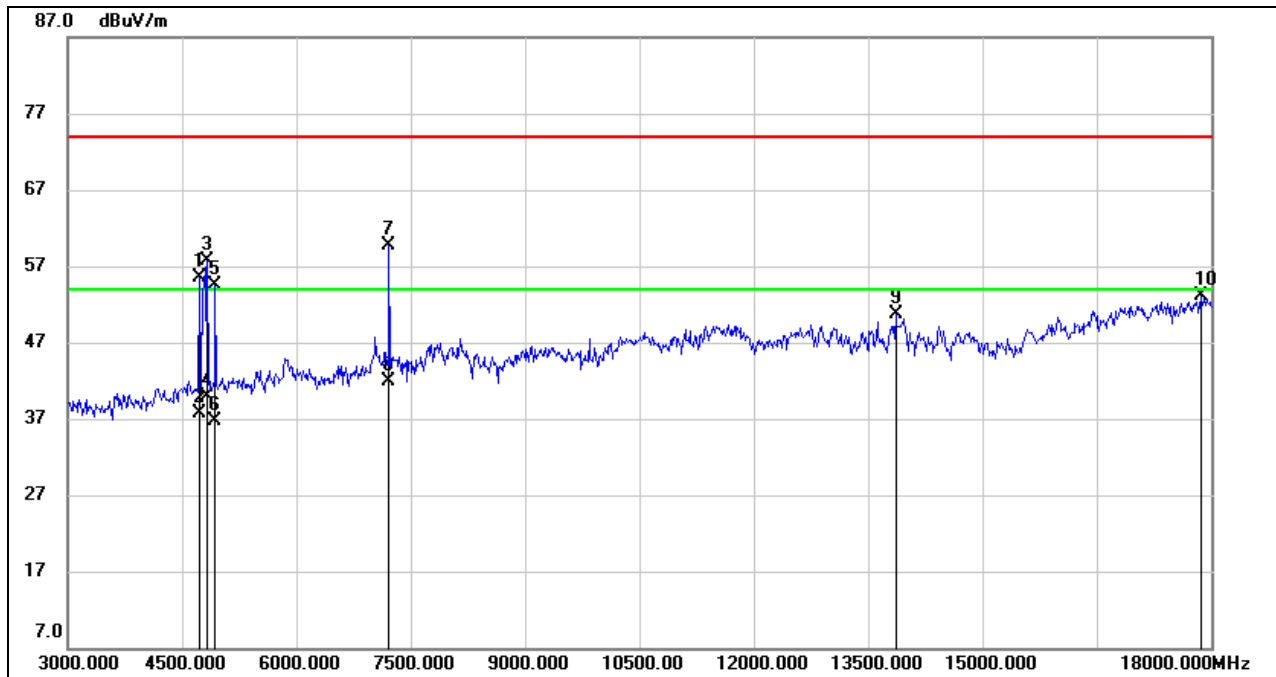
7.4. SPURIOUS EMISSIONS (3~18GHz)

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	54.34	0.59	54.93	74.00	-19.07	peak
2	4830.000	36.48	0.59	37.07	54.00	-16.93	AVG
3	7215.000	52.14	5.85	57.99	74.00	-16.01	peak
4	7215.000	34.28	5.85	40.13	54.00	-13.87	AVG
5	11745.000	36.06	13.05	49.11	74.00	-24.89	peak
6	13035.000	34.82	15.03	49.85	74.00	-24.15	peak
7	17055.000	31.36	20.53	51.89	74.00	-22.11	peak
8	17805.000	29.95	23.31	53.26	74.00	-20.74	peak

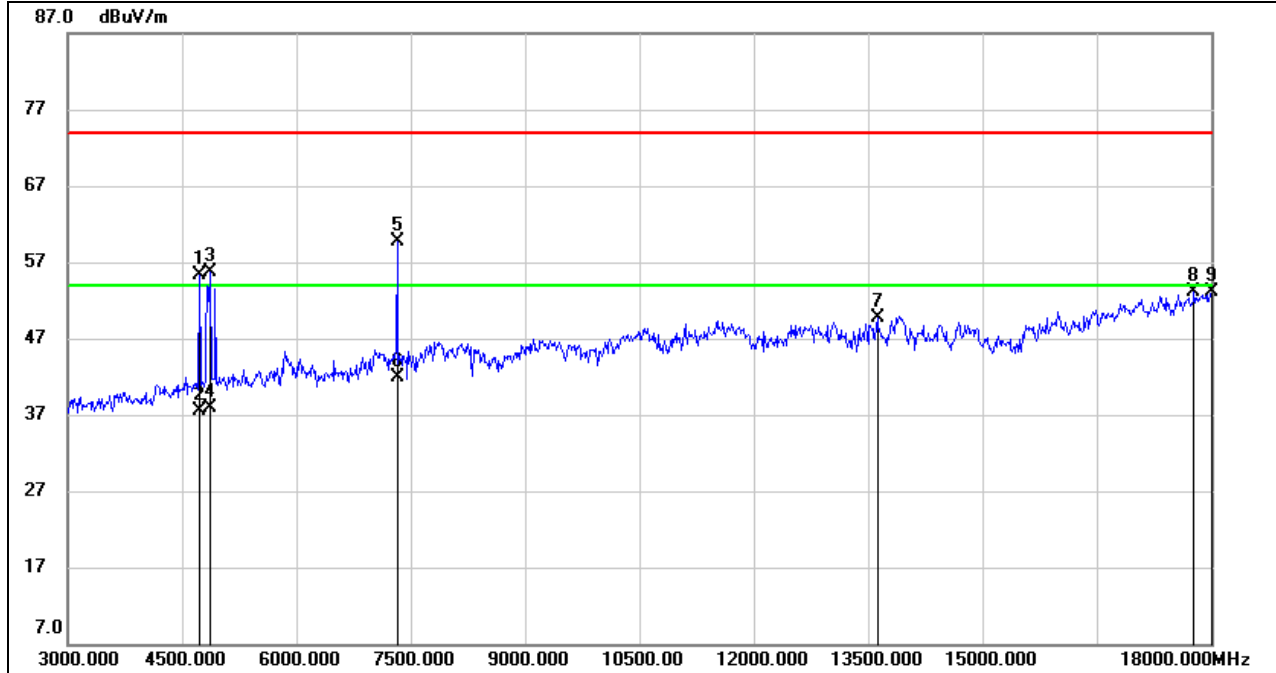
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. The High Pass filter loss factor already add into the correct factor.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4725.000	55.24	0.24	55.48	74.00	-18.52	peak
2	4725.000	37.38	0.24	37.62	54.00	-16.38	AVG
3	4830.000	57.19	0.59	57.78	74.00	-16.22	peak
4	4830.000	39.33	0.59	39.92	54.00	-14.08	AVG
5	4935.000	53.44	1.05	54.49	74.00	-19.51	peak
6	4935.000	35.58	1.05	36.63	54.00	-17.37	AVG
7	7215.000	53.88	5.85	59.73	74.00	-14.27	peak
8	7215.000	36.02	5.85	41.87	54.00	-12.13	AVG
9	13860.000	34.13	16.56	50.69	74.00	-23.31	peak
10	17865.000	29.86	23.33	53.19	74.00	-20.81	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. The High Pass filter loss factor already add into the correct factor.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

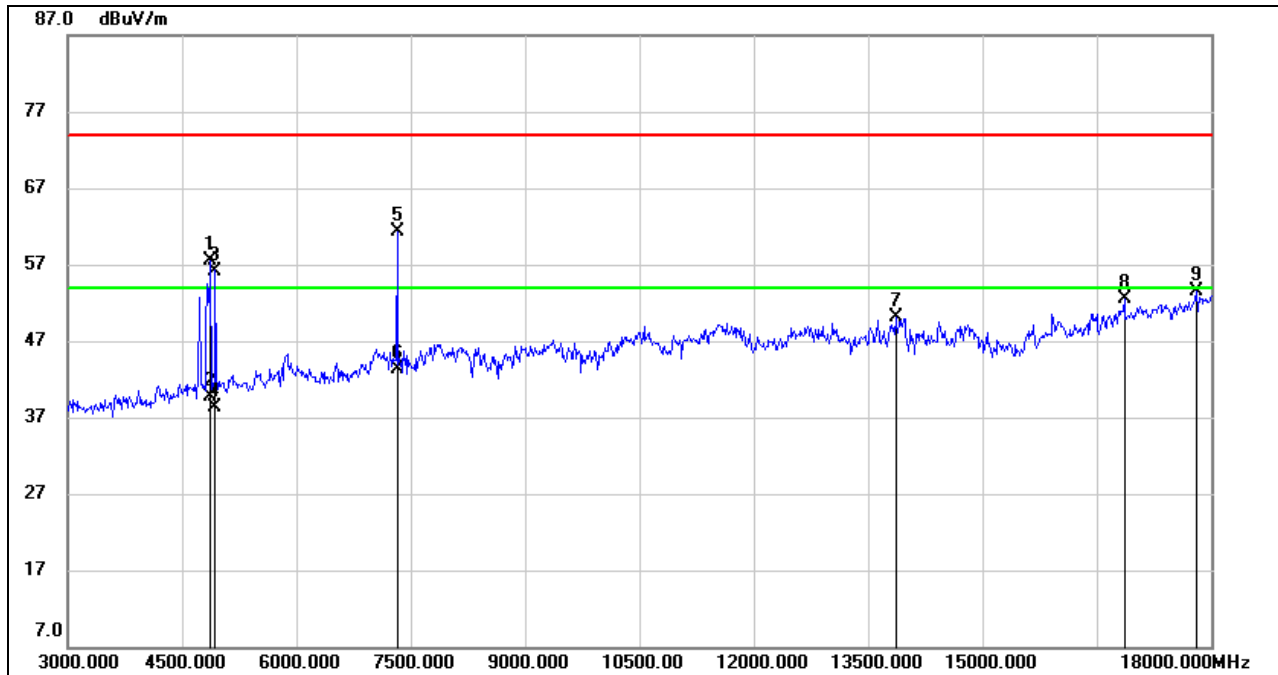
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4725.000	55.11	0.24	55.35	74.00	-18.65	peak
2	4725.000	37.25	0.24	37.49	54.00	-16.51	AVG
3	4875.000	54.99	0.76	55.75	74.00	-18.25	peak
4	4875.000	37.13	0.76	37.89	54.00	-16.11	AVG
5	7320.000	53.65	6.14	59.79	74.00	-14.21	peak
6	7320.000	35.78	6.14	41.93	54.00	-12.07	AVG
7	13620.000	33.63	15.99	49.62	74.00	-24.38	peak
8	17775.000	29.93	23.09	53.02	74.00	-20.98	peak
9	18000.000	29.71	23.46	53.17	74.00	-20.83	peak

- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. The High Pass filter loss factor already add into the correct factor.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

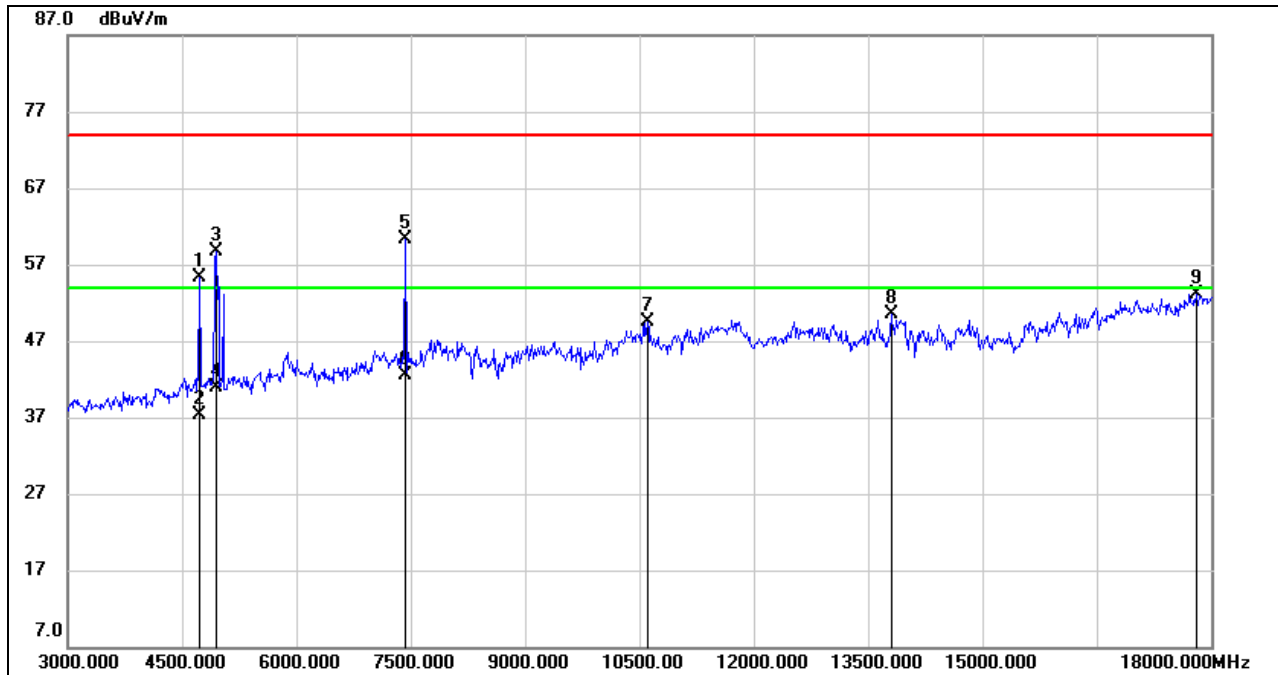
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	56.81	0.76	57.57	74.00	-16.43	peak
2	4875.000	38.95	0.76	39.71	54.00	-14.29	AVG
3	4935.000	55.15	1.05	56.20	74.00	-17.80	peak
4	4935.000	37.29	1.05	38.34	54.00	-15.66	AVG
5	7320.000	55.07	6.14	61.21	74.00	-12.79	peak
6	7320.000	37.21	6.14	43.35	54.00	-10.65	AVG
7	13860.000	33.47	16.56	50.03	74.00	-23.97	peak
8	16860.000	32.52	19.95	52.47	74.00	-21.53	peak
9	17805.000	30.20	23.31	53.51	74.00	-20.49	peak

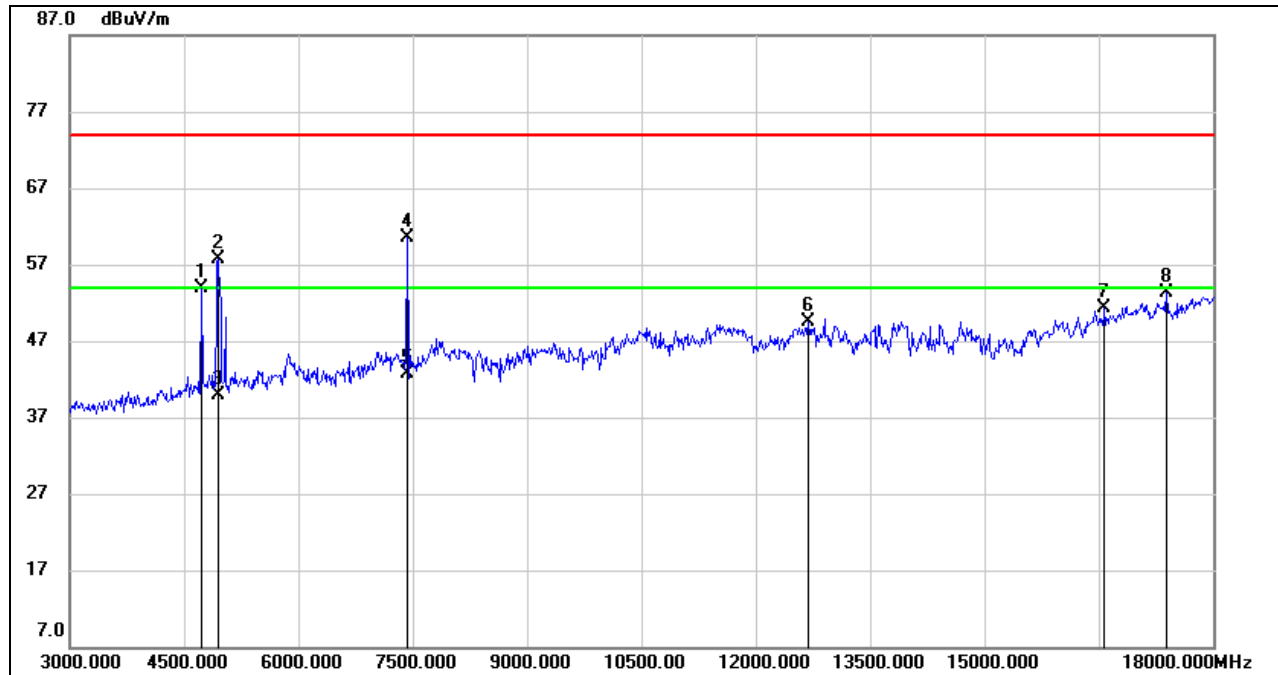
- Note:
1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. The High Pass filter loss factor already add into the correct factor.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4725.000	55.00	0.24	55.24	74.00	-18.76	peak
2	4725.000	37.14	0.24	37.38	54.00	-16.62	AVG
3	4950.000	57.60	1.13	58.73	74.00	-15.27	peak
4	4950.000	39.74	1.13	40.87	54.00	-13.13	AVG
5	7425.000	53.97	6.39	60.36	74.00	-13.64	peak
6	7425.000	36.11	6.39	42.50	54.00	-11.50	AVG
7	10605.000	37.66	11.93	49.59	74.00	-24.41	peak
8	13800.000	33.33	17.10	50.43	74.00	-23.57	peak
9	17805.000	29.85	23.31	53.16	74.00	-20.84	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. The High Pass filter loss factor already add into the correct factor.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

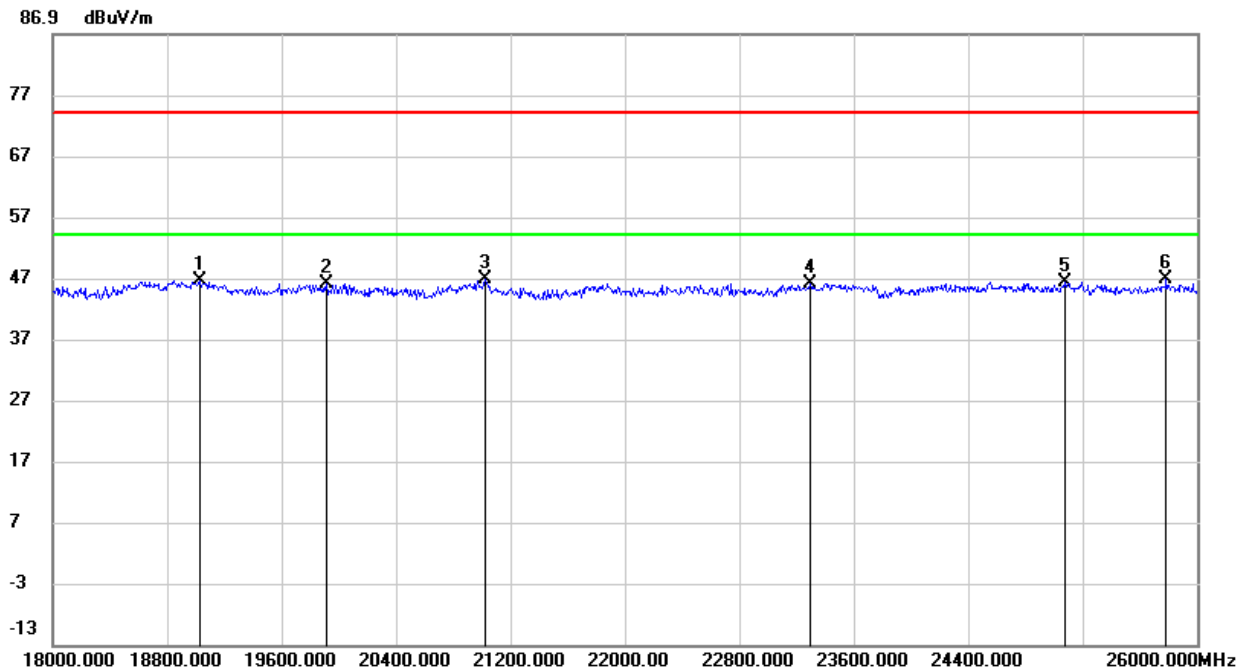
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4725.000	53.59	0.24	53.83	74.00	-20.17	peak
2	4950.000	56.57	1.13	57.70	74.00	-16.30	peak
3	4950.000	38.71	1.13	39.84	54.00	-14.16	AVG
4	7425.000	54.17	6.39	60.56	74.00	-13.44	peak
5	7425.000	36.31	6.39	42.70	54.00	-11.30	AVG
6	12690.000	35.30	14.25	49.55	74.00	-24.45	peak
7	16575.000	32.00	19.40	51.40	74.00	-22.60	peak
8	17385.000	31.82	21.46	53.28	74.00	-20.72	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
 6. The High Pass filter loss factor already add into the correct factor.
 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



7.5. SPURIOUS EMISSIONS (18~26GHz)

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

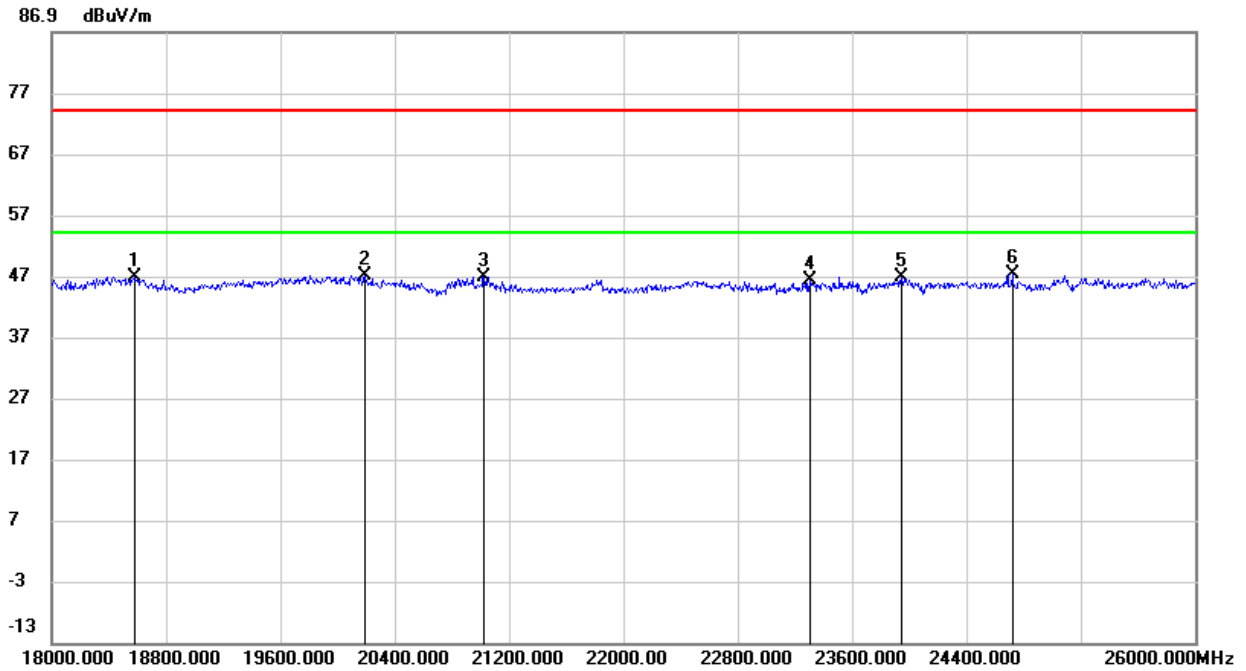


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19024.000	51.49	-4.91	46.58	74.00	-27.42	peak
2	19912.000	50.41	-4.36	46.05	74.00	-27.95	peak
3	21024.000	52.12	-5.30	46.82	74.00	-27.18	peak
4	23296.000	51.30	-5.16	46.14	74.00	-27.86	peak
5	25072.000	47.48	-1.11	46.37	74.00	-27.63	peak
6	25784.000	48.23	-1.49	46.74	74.00	-27.26	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18576.000	51.31	-4.51	46.80	74.00	-27.20	peak
2	20192.000	51.87	-4.76	47.11	74.00	-26.89	peak
3	21024.000	52.14	-5.30	46.84	74.00	-27.16	peak
4	23304.000	51.37	-5.16	46.21	74.00	-27.79	peak
5	23944.000	50.95	-4.14	46.81	74.00	-27.19	peak
6	24720.000	49.37	-2.02	47.35	74.00	-26.65	peak

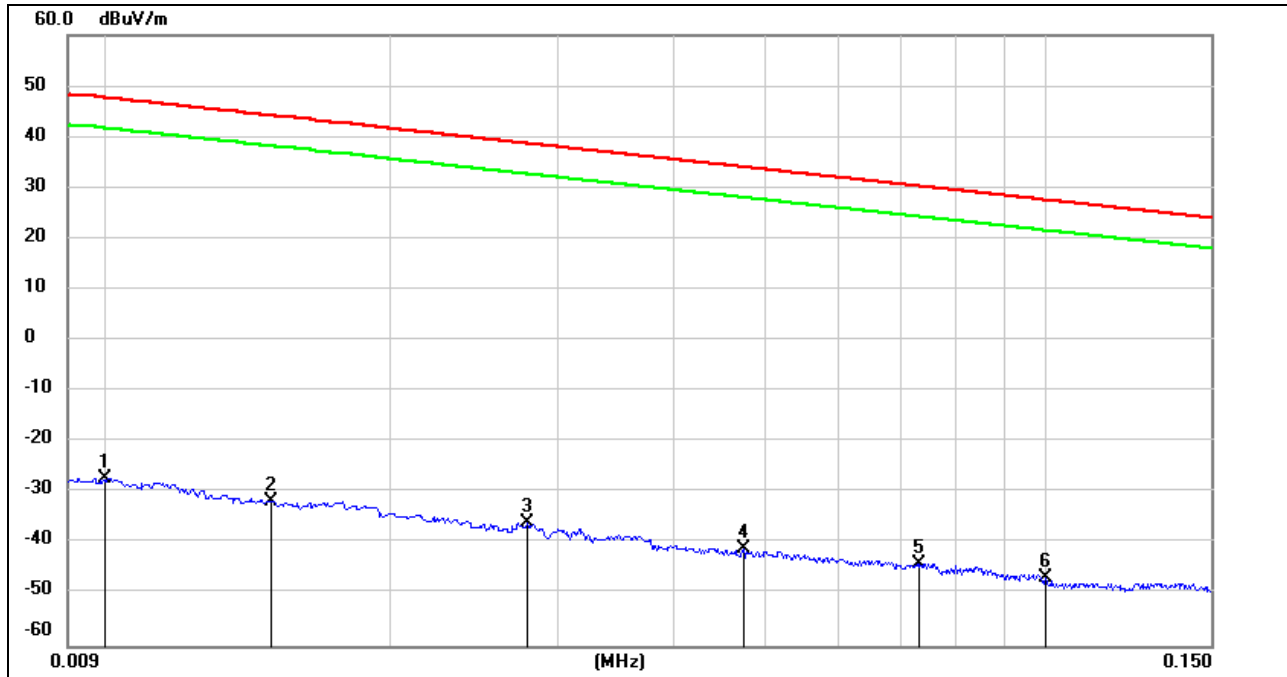
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.

Note: All test modes had been tested, only the worst data record in the report.

7.6. SPURIOUS EMISSIONS BELOW 30MHz

SPURIOUS EMISSIONS (HIGH CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9kHz~ 150kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.0100	74.22	-101.40	-27.18	47.60	-74.78	peak
2	0.0149	69.87	-101.37	-31.50	44.14	-75.64	peak
3	0.0279	65.67	-101.38	-35.71	38.69	-74.40	peak
4	0.0475	60.44	-101.47	-41.03	34.07	-75.10	peak
5	0.0733	57.66	-101.58	-43.92	30.30	-74.22	peak
6	0.1000	55.17	-101.80	-46.63	27.60	-74.23	peak

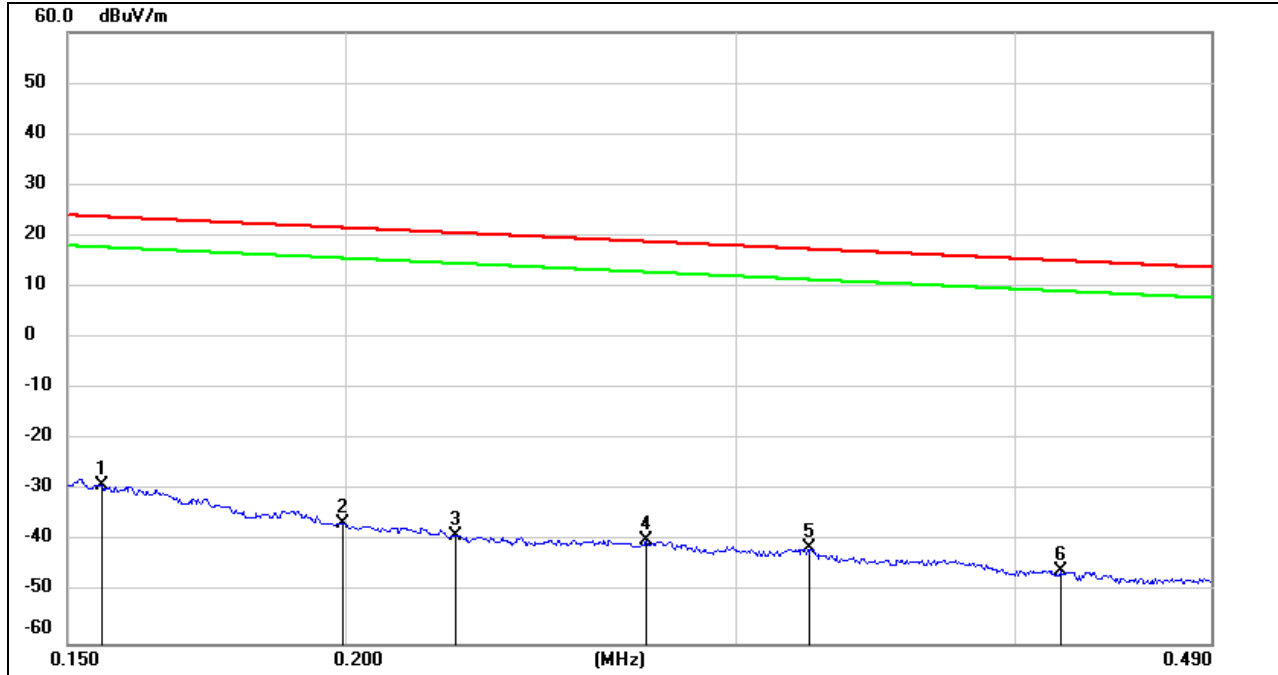
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

150kHz ~ 490kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.1554	72.77	-101.65	-28.88	23.77	-52.65	peak
2	0.1993	65.40	-101.72	-36.32	21.61	-57.93	peak
3	0.2240	62.98	-101.75	-38.77	20.60	-59.37	peak
4	0.2731	62.00	-101.83	-39.83	18.87	-58.70	peak
5	0.3234	60.48	-101.88	-41.40	17.41	-58.81	peak
6	0.4193	56.18	-101.98	-45.80	15.15	-60.95	peak

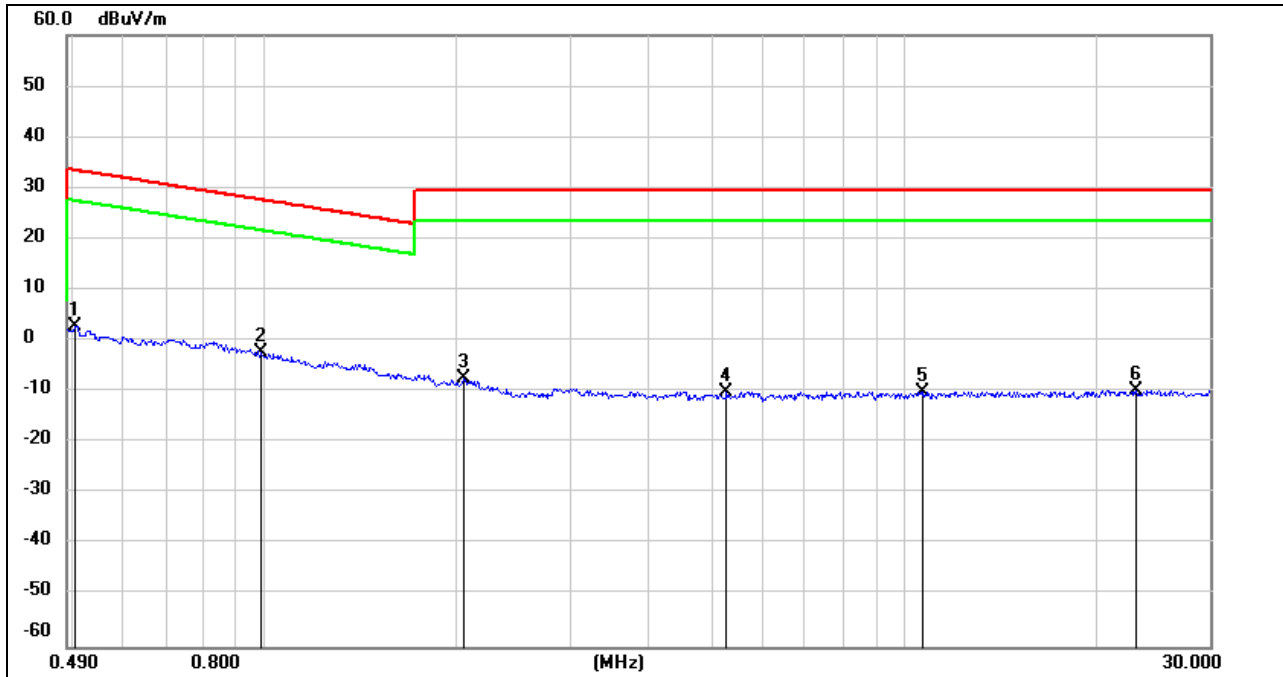
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

490kHz ~ 30MHz



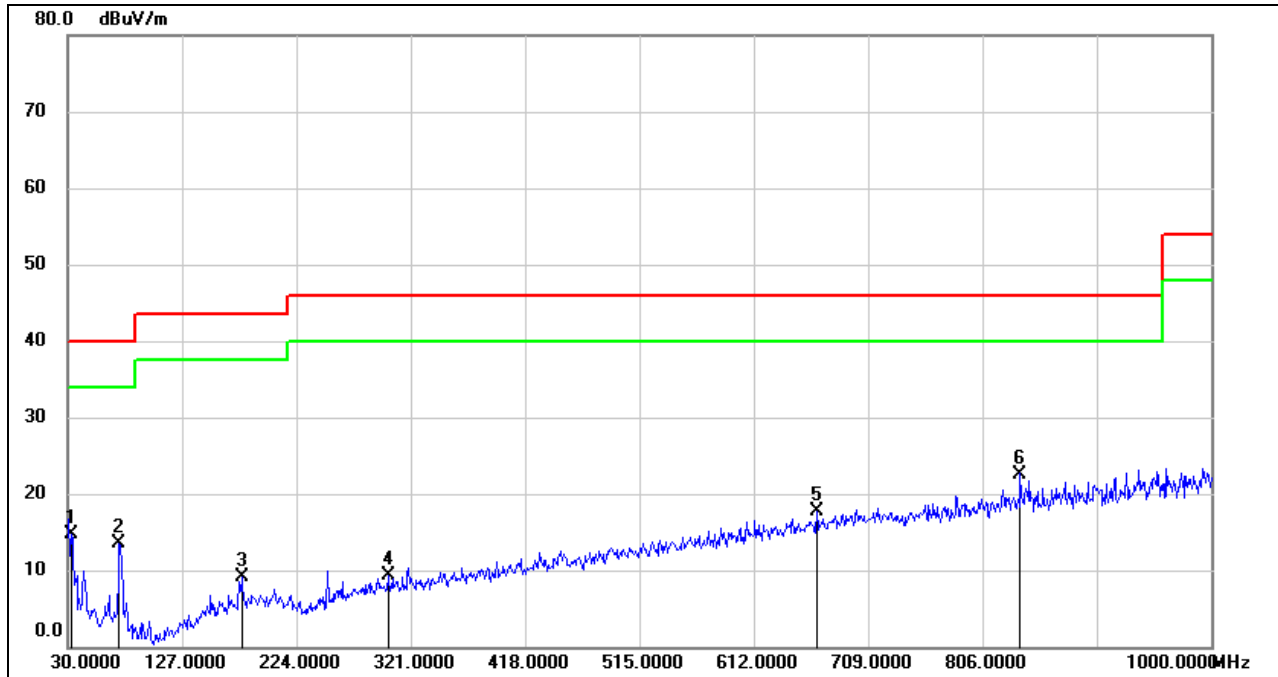
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.5039	64.94	-62.07	2.87	33.56	-30.69	peak
2	0.9858	59.93	-62.26	-2.33	27.72	-30.05	peak
3	2.0430	54.45	-61.82	-7.37	29.54	-36.91	peak
4	5.2705	51.54	-61.45	-9.91	29.54	-39.45	peak
5	10.7004	50.86	-60.83	-9.97	29.54	-39.51	peak
6	22.9766	51.00	-60.60	-9.60	29.54	-39.14	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}(120\pi) = \text{dBuV/m} - 51.5$.

Note: All test modes had been tested, only the worst data record in the report.

7.7. SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

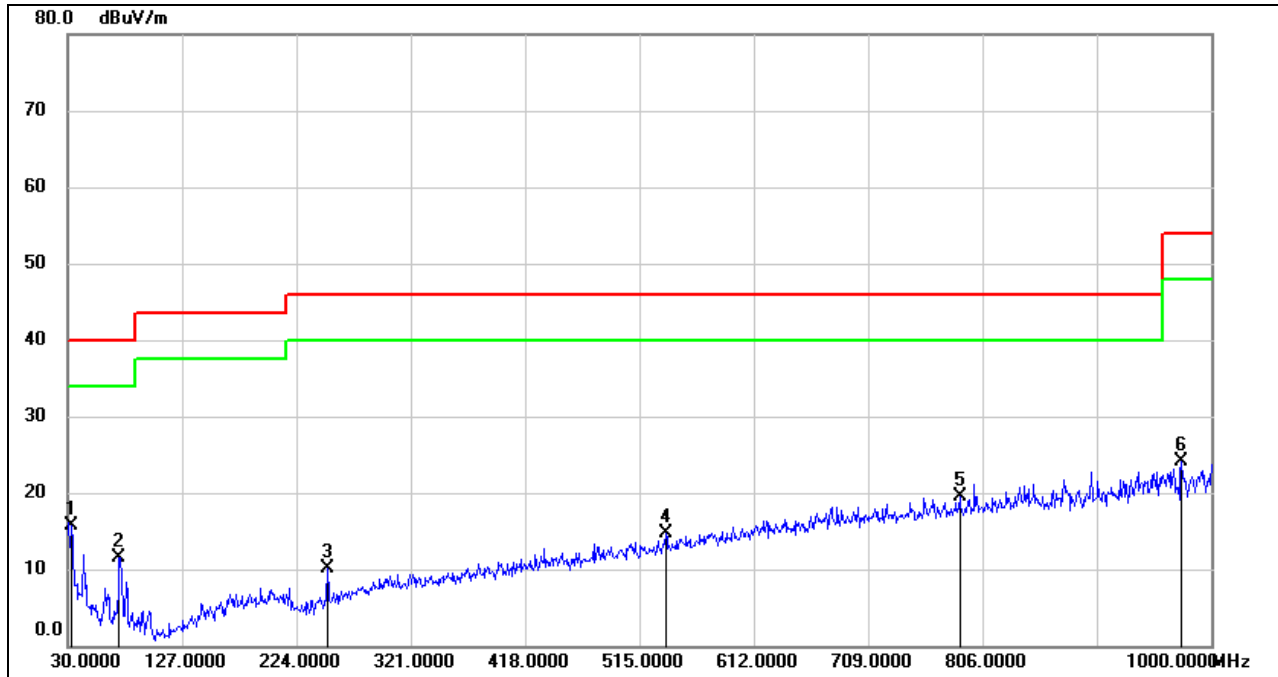


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	32.06	-17.33	14.73	40.00	-25.27	QP
2	73.6500	33.75	-20.28	13.47	40.00	-26.53	QP
3	177.4400	26.14	-17.11	9.03	43.50	-34.47	QP
4	301.6000	23.45	-14.17	9.28	46.00	-36.72	QP
5	665.3500	25.40	-7.66	17.74	46.00	-28.26	QP
6	838.0100	27.51	-4.91	22.60	46.00	-23.40	QP

- Note: 1. Result Level = Read Level + Correct Factor.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	32.96	-17.33	15.63	40.00	-24.37	QP
2	73.6500	31.86	-20.28	11.58	40.00	-28.42	QP
3	250.1900	26.37	-16.34	10.03	46.00	-35.97	QP
4	537.3100	24.86	-10.08	14.78	46.00	-31.22	QP
5	786.6000	25.41	-5.86	19.55	46.00	-26.45	QP
6	974.7800	27.53	-3.38	24.15	54.00	-29.85	QP

- Note: 1. Result Level = Read Level + Correct Factor.
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All test modes had been tested, only the worst data record in the report.



8. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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 §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.

RESULTS

Complies

END OF REPORT