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Test Report No.: RF2507WDG0412



Certificate # 2951.01

TEST REPORT

Applicant:	Grandex International Development Limited
Address:	Unit 2401, 24/F, Million Fortune Industrial Centre, No.34-36 Chai Wan Kok Street, Tsuen Wan, N.T., Hong Kong

Manufacturer or Supplier	Grandex International Development Limited
Address	Unit 2401, 24/F, Million Fortune Industrial Centre, No.34-36 Chai Wan Kok Street, Tsuen Wan, N.T., Hong Kong
Product:	R/C VEHICLE
Brand Name:	N/A
Model:	96120
Additional Model & Model Difference	N/A
Date of tests:	Aug. 06, 2025~ Aug. 08, 2025

the tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart C, Section 15.249

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Loren Luo Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department

Date: Aug. 11, 2025

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2507WDG0412	Original release	Aug. 11, 2025



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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.203	Antenna Requirement	PASS	No antenna connector is used
§15.207 (a)	Conducted Emission	N/A	Powered from battery
§15.205	Restricted Band of Operation	PASS	Compliant
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant
§15.215(c)	20dB Bandwidth Test	PASS	Compliant

2 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	3.02dB
	30MHz ~ 1GHz	4.00dB
	1GHz ~ 18GHz	4.90dB
	18GHz ~ 40GHz	4.10dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	R/C VEHICLE
MODEL NO.	96120
ADDITIONAL MODEL	N/A
FCC ID	VC996120240
NOMINAL VOLTAGE	DC 3V(1.5V*AA*2) from battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2420MHz ~ 2465MHz
ANTENNA TYPE	Wire Antenna, with 0dBi gain
I/O PORTS	N/A
CABLE SUPPLIED	N/A

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2507WDG0412) for detailed product photo.

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3.2 DESCRIPTION OF TEST MODES

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on Y axis for radiated emission. The EUT was tested under the following mode.

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	BW	
A	√	√	-	√	DC 3V from New Battery

Where **RE<1G:** Radiated Emission below 1GHz **RE≥1G:** Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **BW:** 20db bandwidth

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

Following channel(s) was (were) selected for the test as listed below.

TESTED CHANNEL	TESTED FREQUENCY
Low	2420 MHz
Middle	2445 MHz
High	2465 MHz

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420	16	2435	31	2453
2	2421	17	2436	32	2454
3	2422	18	2437	33	2455
4	2423	19	2438	34	2456
5	2424	20	2439	35	2457
6	2425	21	2440	36	2458
7	2426	22	2441	37	2459
8	2427	23	2445	38	2460
9	2428	24	2446	39	2461
10	2429	25	2447	40	2462
11	2430	26	2448	41	2463
12	2431	27	2449	42	2464
13	2432	28	2450	43	2465
14	2433	29	2451		
15	2434	30	2452		

Note: The more detailed channel, please refer to the product specifications



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TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE	25deg. C, 55%RH	DC 3V from New Battery	Demo
BW	25deg. C, 55%RH	DC 3V from New Battery	Ryker
PLC	-	-	-

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C, Section 15.249

ANSI C63.10-2020

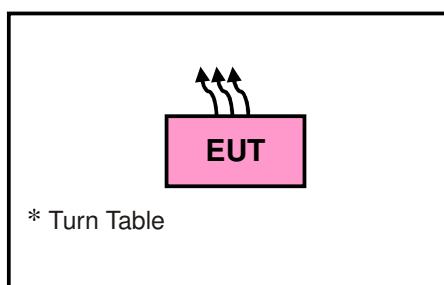
All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units

3.5 CONFIGURATION OF SYSTEM UNDER TEST

RADIATED EMISSION TEST:





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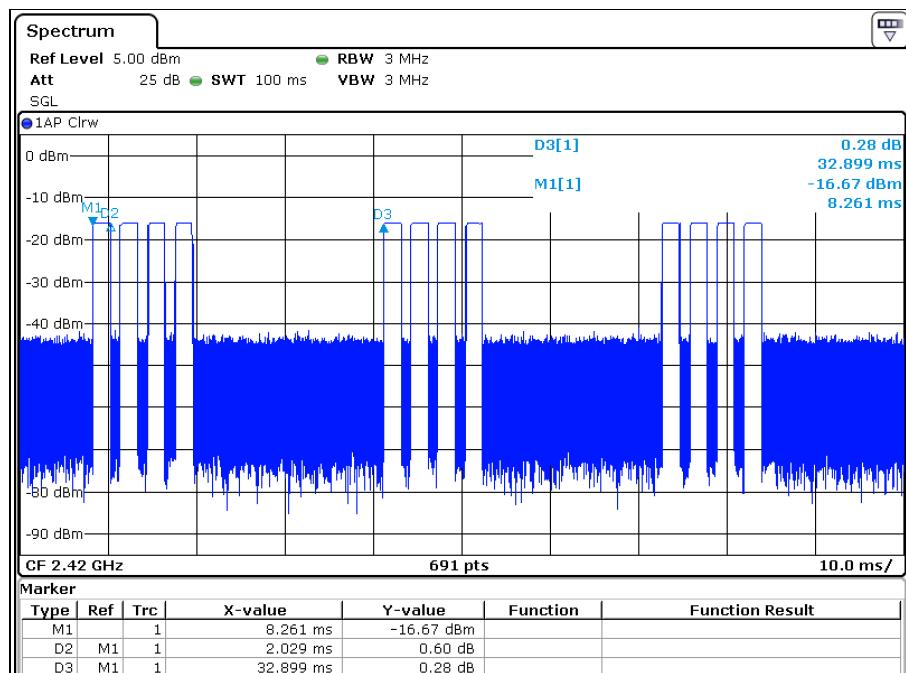
3.6 DUTY CYCLE OF TESET SIGNAL

T_p = 32.899ms

T_{on} = T_{on} * Number = 2.029ms * 4 = 8.116ms

Duty Cycle = T_{on} / T_p * 100% = 8.116/32.899 ≈ 24.66%

AV factor = 20 log (Duty cycle) = 20 log (24.66%) ≈ -12.16dB





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4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTES:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB_{uV}/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



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4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSV3044	101326	Apr. 10, 26
EMI Test Receiver	Rohde&Schwarz	ESCI3	101418	Jul.06, 26
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 07, 25
Pre-Amplifier	Agilent	8447D	2944A10488	Jul.01, 26
3m Semi-anechoic Chamber	ETS-Lindgren	9m*6m*6m	D3040003DG-1	July 30, 26
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	Jul.01, 26
Coaxial RF Cable	Joinfront	JFAR-NMBNCM-2000	2100033742	Jul.01, 26
Coaxial RF Cable	Joinfront	JFAR-BNCMSMM-500	2100033742	Jul.01, 26
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00240040	Apr. 19, 26
Horn Antenna	SCHWARZBECK	BBHA 9170	01024	Oct. 16, 25
Pre-Amplifier (1GHz-18GHz)	Rohde&Schwarz	SCU18	102265	Jul.01, 26
Pre-Amplifier (18GHz-40GHz)	Rohde&Schwarz	SCU40	100437	Nov. 28, 25
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	Jul.01, 26
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-2000	2100033742	Jul.01, 26
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-800	2100033742	Jul.01, 26

NOTES:

1. The test was performed in 966 Chamber-3.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. Test Firm Registration Number: 749762.
5. Designation Number: CN1174



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4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1.3m above the ground.
- g. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTES:

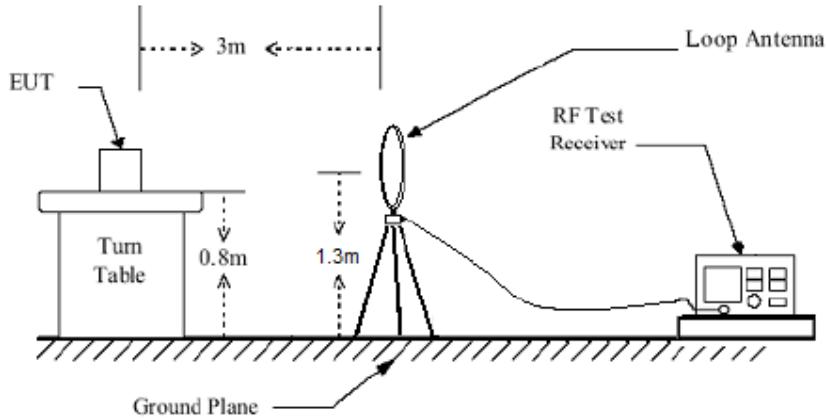
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. Average value =PK Emission +AV Factor.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

4.1.4 DEVIATION FROM TEST STANDARD

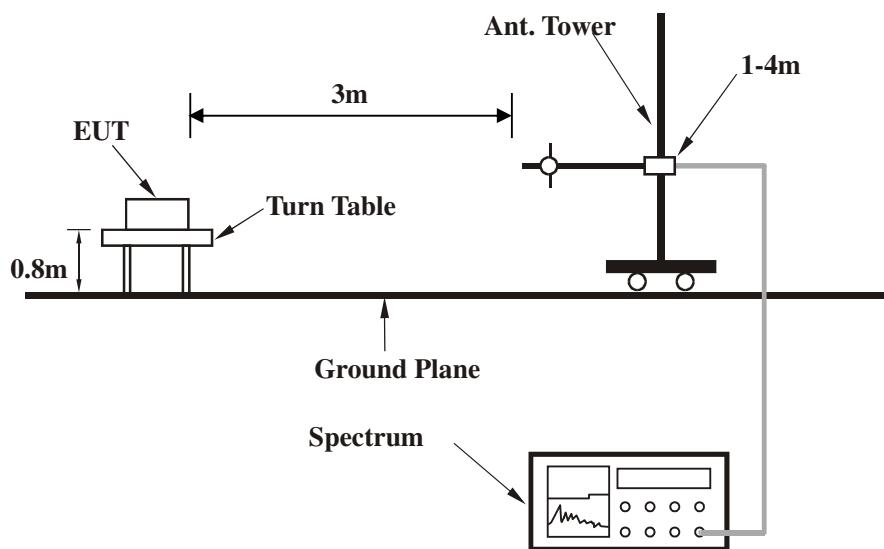
No deviation.

4.1.5 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup

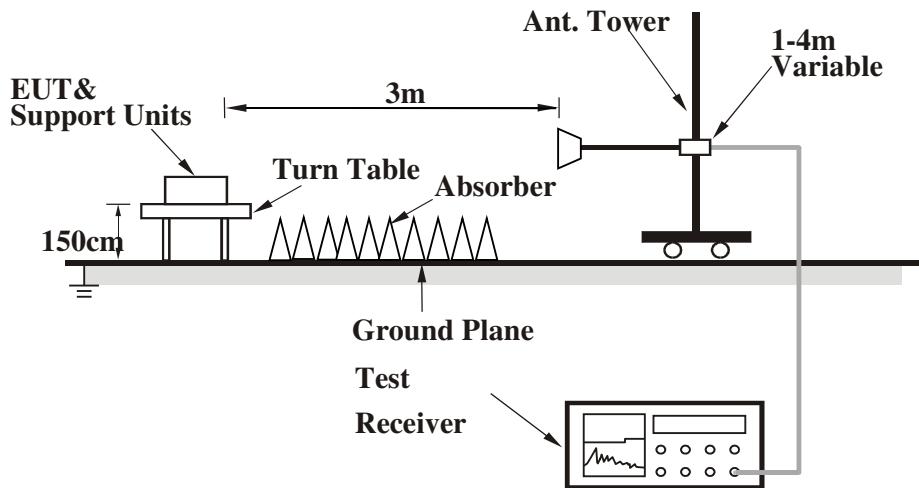




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Above 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- Turned on the power of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

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4.1.7 TEST RESULTS

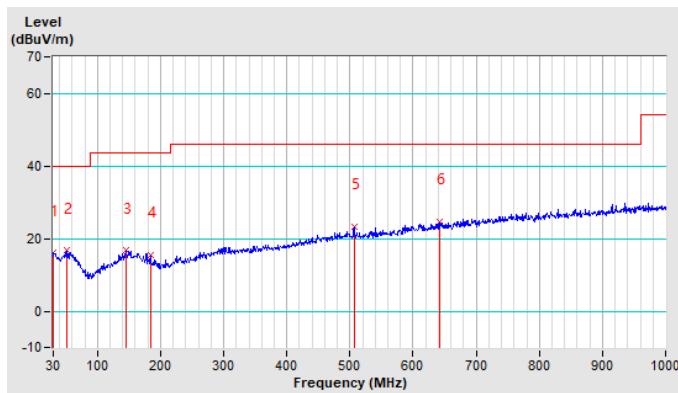
BELOW 1GHz WORST-CASE DATA

CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	15.97 QP	40.00	-24.03	1.42 H	147	30.93	-14.96
2	51.34	16.64 QP	40.00	-23.36	3.52 H	93	30.33	-13.69
3	144.46	16.69 QP	43.50	-26.81	2.56 H	24	29.82	-13.13
4	184.23	15.55 QP	43.50	-27.95	1.90 H	249	30.19	-14.64
5	506.27	23.24 QP	46.00	-22.76	1.95 H	142	30.30	-7.06
6	642.07	24.63 QP	46.00	-21.37	2.68 H	102	29.29	-4.66

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.





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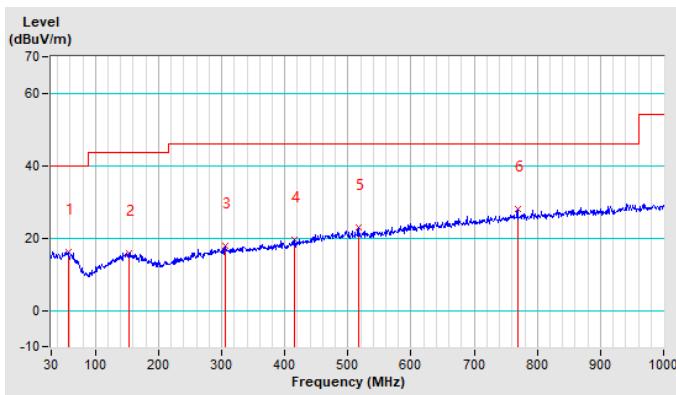
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CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.16	16.04 QP	40.00	-23.96	1.67 V	102	29.89	-13.85
2	153.19	15.91 QP	43.50	-27.59	3.57 V	21	28.82	-12.91
3	305.48	17.88 QP	46.00	-28.12	2.49 V	281	29.03	-11.15
4	415.09	19.50 QP	46.00	-26.50	1.00 V	142	28.82	-9.32
5	516.94	22.98 QP	46.00	-23.02	1.88 V	150	29.98	-7.00
6	769.14	27.89 QP	46.00	-18.11	2.51 V	160	30.07	-2.18

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.



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ABOVE 1GHz WORST-CASE DATA:

CHANNEL	TX Low Channel	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2388.05	46.40 PK	74.00	-27.60	1.00 H	185	51.15	-4.75
2	2388.05	34.24 AV	54.00	-19.76	1.00 H	185	38.99	-4.75
3	2400.00	43.79 PK	74.00	-30.21	1.00 H	185	48.53	-4.74
4	2400.00	31.63 AV	54.00	-22.37	1.00 H	185	36.37	-4.74
5	*2420.00	98.01 PK	114.00	-15.99	1.00 H	185	102.72	-4.71
6	*2420.00	85.85 AV	94.00	-8.15	1.00 H	185	90.56	-4.71
7	4840.00	54.04 PK	74.00	-19.96	1.04 H	288	55.55	-1.51
8	4840.00	41.88 AV	54.00	-12.12	1.04 H	288	43.39	-1.51
9	7260.00	54.15 PK	74.00	-19.85	1.15 H	199	53.83	0.32
10	7260.00	41.99 AV	54.00	-12.01	1.15 H	199	41.67	0.32
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2400.00	42.89 PK	74.00	-31.11	1.00 V	173	47.63	-4.74
2	2400.00	30.73 AV	54.00	-23.27	1.00 V	173	35.47	-4.74
3	*2420.00	88.89 PK	114.00	-25.11	1.00 V	173	93.60	-4.71
4	*2420.00	76.73 AV	94.00	-17.27	1.00 V	173	81.44	-4.71
5	4840.00	49.75 PK	74.00	-24.25	1.56 V	94	51.26	-1.51
6	4840.00	37.59 AV	54.00	-16.41	1.56 V	94	39.10	-1.51
7	7260.00	55.66 PK	74.00	-18.34	1.66 V	35	55.34	0.32
8	7260.00	43.50 AV	54.00	-10.50	1.66 V	35	43.18	0.32

REMARK:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Average value =PK Emission +20*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (24.66%) ≈ -12.16dB, Please see page 8 for plotted duty.



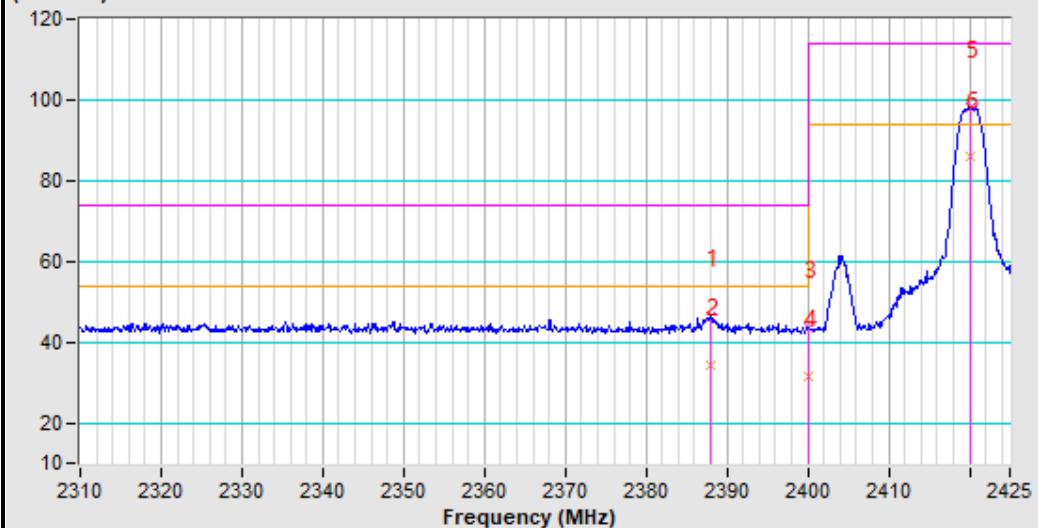
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Band edge Plot

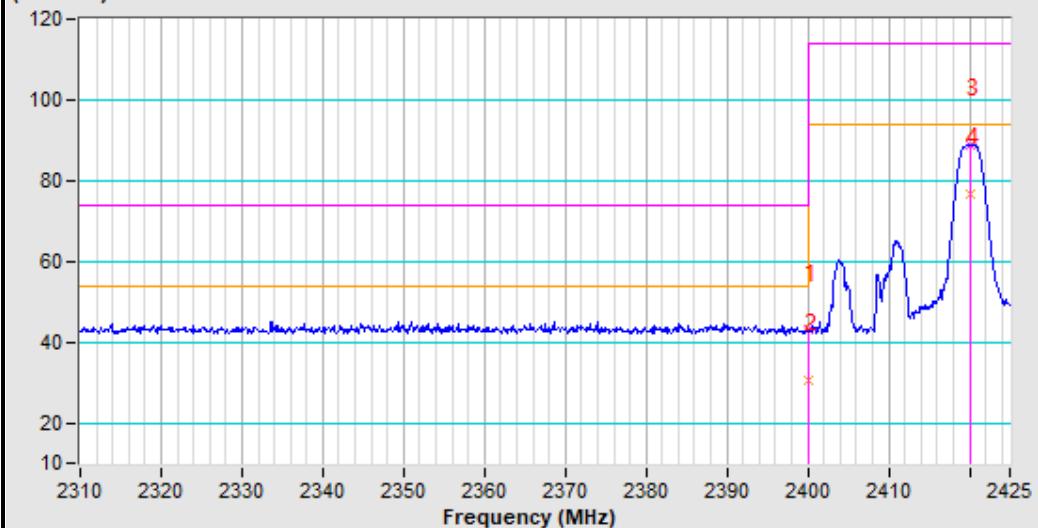
2420MHz Horizontal

Level
(dBuV/m)



2420MHz Vertical

Level
(dBuV/m)



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CHANNEL	TX Middle Channel	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2445.00	99.77 PK	114.00	-14.23	1.50 H	56	104.45	-4.68
2	*2445.00	87.61 AV	94.00	-6.39	1.50 H	56	92.29	-4.68
3	4890.00	52.30 PK	74.00	-21.70	1.30 H	210	53.77	-1.47
4	4890.00	40.14 AV	54.00	-13.86	1.30 H	210	41.61	-1.47
5	7335.00	50.75 PK	74.00	-23.25	1.75 H	89	50.35	0.40
6	7335.00	38.59 AV	54.00	-15.41	1.75 H	89	38.19	0.40
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2445.00	92.13 PK	114.00	-21.87	1.80 V	253	96.81	-4.68
2	*2445.00	79.97 AV	94.00	-14.03	1.80 V	253	84.65	-4.68
3	4890.00	49.46 PK	74.00	-24.54	1.58 V	71	50.93	-1.47
4	4890.00	37.30 AV	54.00	-16.70	1.58 V	71	38.77	-1.47
5	7335.00	53.55 PK	74.00	-20.45	1.20 V	36	53.15	0.40
6	7335.00	41.39 AV	54.00	-12.61	1.20 V	36	40.99	0.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Average value =PK Emission +20*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (24.66%) ≈ -12.16dB, Please see page 8 for plotted duty.

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CHANNEL	TX High Channel	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2465.00	96.34 PK	114.00	-17.66	1.00 H	134	100.99	-4.65
2	*2465.00	84.18 AV	94.00	-9.82	1.00 H	134	88.83	-4.65
3	2483.50	42.77 PK	74.00	-31.23	1.00 H	134	47.40	-4.63
4	2483.50	30.61 AV	54.00	-23.39	1.00 H	134	35.24	-4.63
5	2496.83	46.71 PK	74.00	-27.29	1.00 H	134	51.33	-4.62
6	2496.83	34.55 AV	54.00	-19.45	1.00 H	134	39.17	-4.62
7	4930.00	54.61 PK	74.00	-19.39	1.61 H	245	56.06	-1.45
8	4930.00	42.45 AV	54.00	-11.55	1.61 H	245	43.90	-1.45
9	7395.00	50.30 PK	74.00	-23.70	1.30 H	14	49.84	0.46
10	7395.00	38.14 AV	54.00	-15.86	1.30 H	14	37.68	0.46

ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2465.00	90.01 PK	114.00	-23.99	1.00 V	105	94.66	-4.65
2	*2465.00	77.85 AV	94.00	-16.15	1.00 V	105	82.50	-4.65
3	2483.50	42.66 PK	74.00	-31.34	1.00 V	105	47.29	-4.63
4	2483.50	30.50 AV	54.00	-23.50	1.00 V	105	35.13	-4.63
5	4930.00	52.13 PK	74.00	-21.87	1.13 V	97	53.58	-1.45
6	4930.00	39.97 AV	54.00	-14.03	1.13 V	97	41.42	-1.45
7	7395.00	53.39 PK	74.00	-20.61	1.95 V	63	52.93	0.46
8	7395.00	41.23 AV	54.00	-12.77	1.95 V	63	40.77	0.46

REMARK:

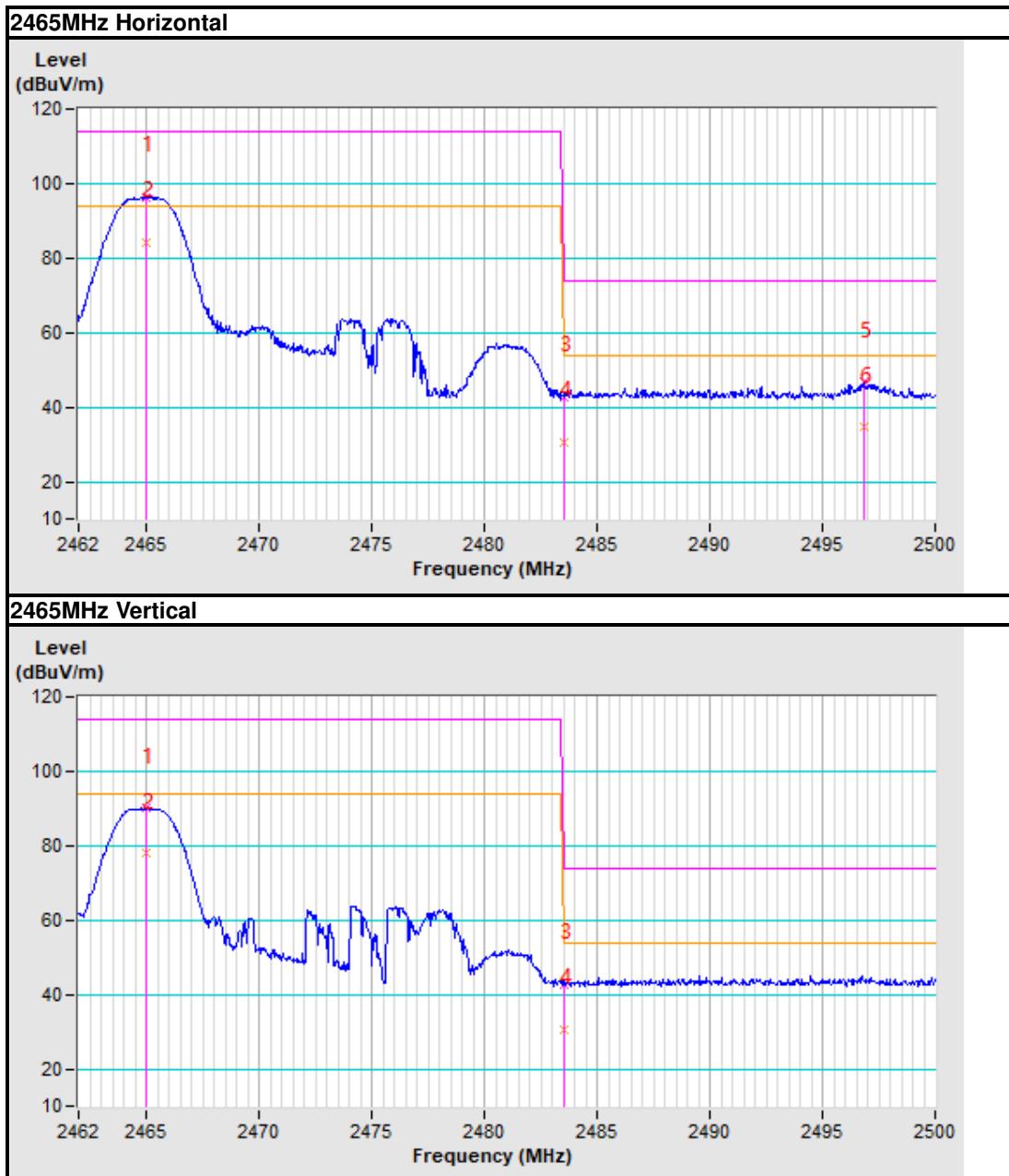
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. Average value =PK Emission +20*log(duty cycle)Where the duty factor is calculated from following formula:20 log (Duty cycle) = 20 log (24.66%) ≈ -12.16dB, Please see page 8 for plotted duty.



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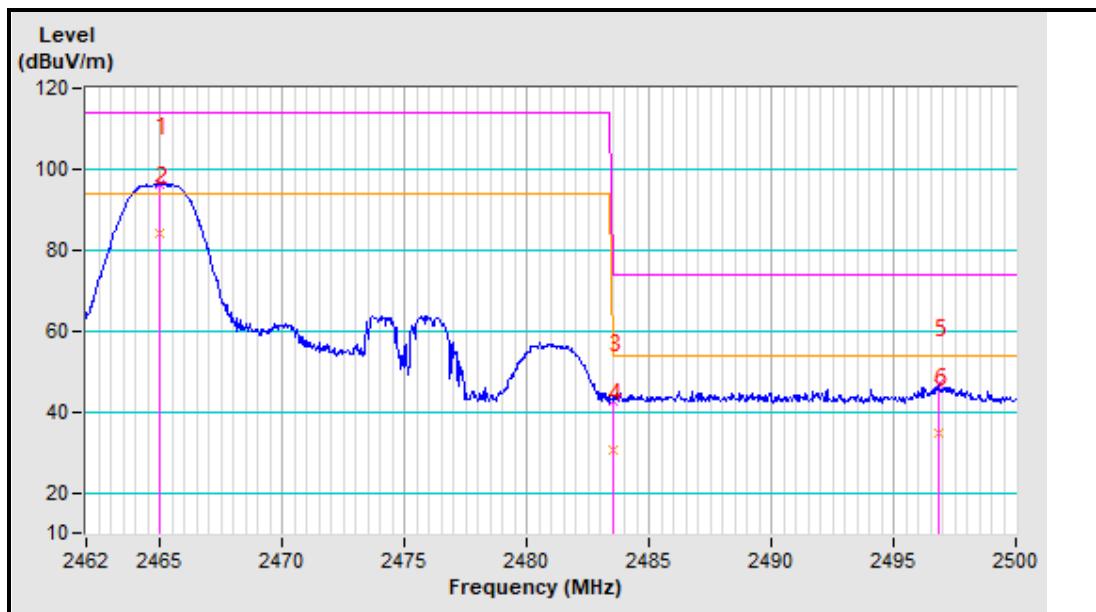
Band edge Plot





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4.2 20dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	101601	Oct. 08, 25
Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Oct. 09, 25
Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Oct. 09, 25
Frequency Analyzer	Keysight	N9010B	MY60240432	Oct. 10, 25
Power Meter	Rohde&Schwarz	NRX	103107	Apr. 15, 26
Power Sensor	Rohde&Schwarz	NRP6A	103356	Apr. 15, 26
Programmable Temperature&Humidity Chamber	Hongjin	HYC-TH-225DH	DG-180746	Oct. 10, 25
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Agilent	E3640A	MY40004013	Oct. 10, 25
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.4	N/A	N/A

NOTES:

1. The test was performed in RF Oven room.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.



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4.2.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

- a) Turned on the power of all equipment.
- b) EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



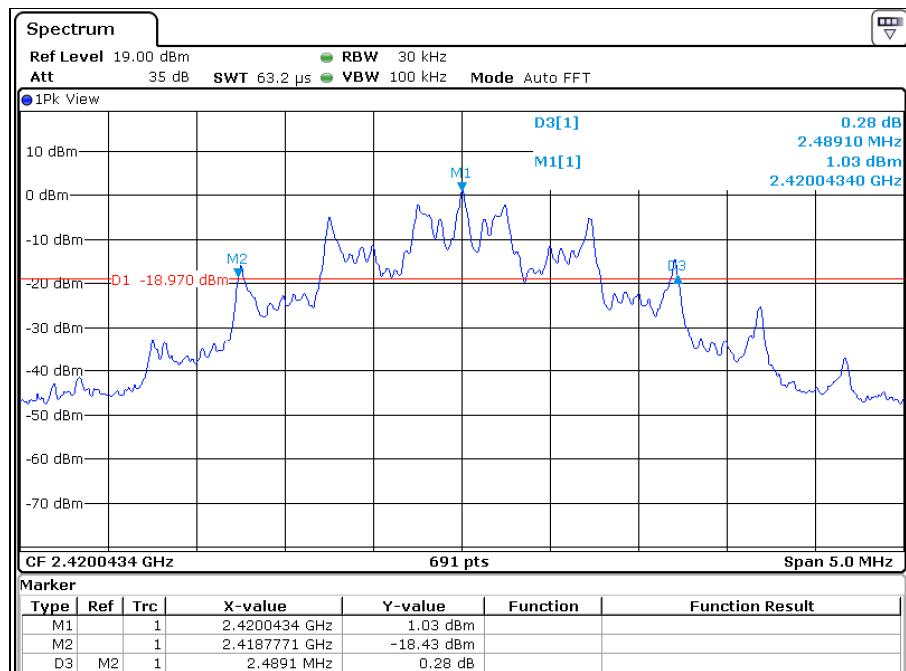
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4.2.7 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
Low	2420	2.4891
Middle	2445	2.4891
High	2465	2.4964

Test Data: Low channel

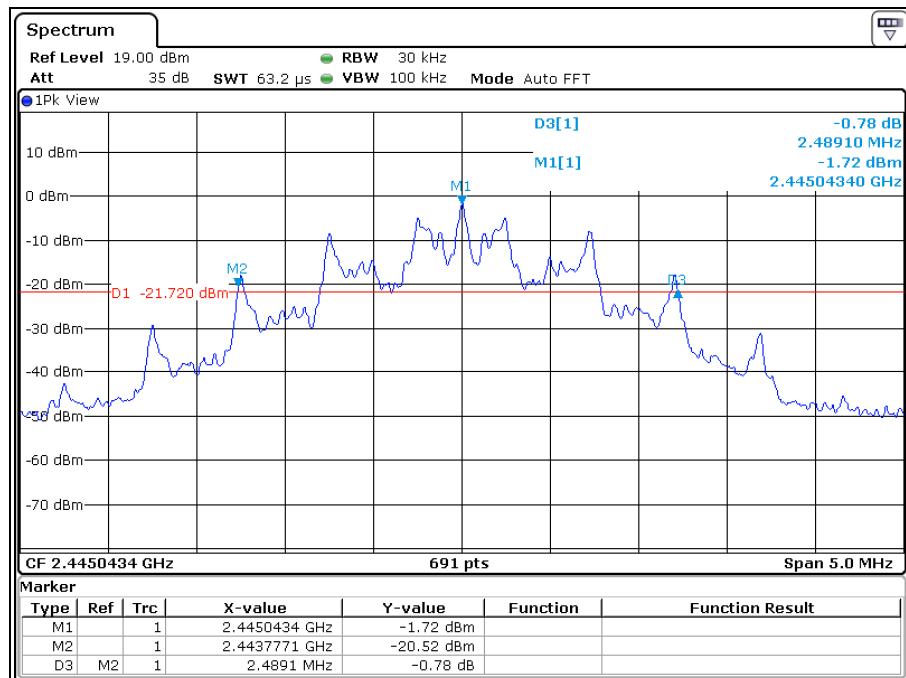




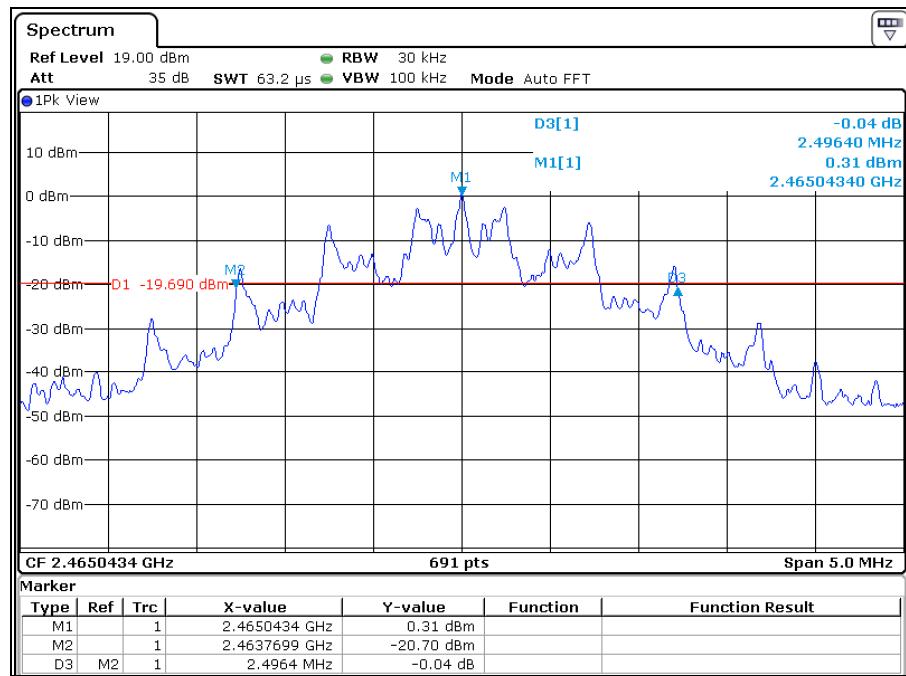
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Test Report No.: RF2507WDG0412

Test Data: Middle channel



Test Data: High channel





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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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6. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---