

TEST REPORT

Applicant	SkyPAD ApS
Address	SkyPAD ApS, Njalsgade 21G, 3 sal, 2300 København S, Denmark

Manufacturer or Supplier	JING MOLD ELECTRONICS TECHNOLOGY (SHENZHEN) CO., LTD.
Address	1ST FLOOR TO 3RD FLOOR OF A BLOCK, 1ST FLOOR TO 3RD FLOOR OF D BLOCK, NO.4 YANGXIA 3RD ROAD, XINQIAO COMMUNITY, XINQIAO STREET, BAO'AN DISTRICT, SHENZHEN, GUANGDONG PROVINCE, CHINA
Product	Wireless Mouse
Brand Name	WALLHACK, 
Model	WMM1000M
Additional Model & Model Difference	N/A
Date of tests	Mar. 06, 2026 ~ Mar. 12, 2026

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

☒ **FCC Part 15, Subpart C, Section 15.247**

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

Prepared by Andrew Sha Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Jun. 04, 2026

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Test Report No.: RF2602WDG0163-1

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2602WDG0163-1	Original release	Jun. 04, 2026



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	N/A	Powered by Li-ion Battery
15.205 15.209	Radiated Emission	PASS	Meet the requirement of limit.
15.247(d)	Out of Band Emission Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted Output power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

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
Conducted emissions	9KHz ~ 30MHz	3.36dB
Radiated emissions	30MHz ~ 1GMHz	4.65dB
	1GHz ~ 18GHz	5.01dB
	18GHz ~ 40GHz	4.10dB
Occupied Channel Bandwidth	1GHz ~ 18GHz	$\pm 1.132 \times 10^{-4} \%$

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Mouse
MODEL NO.	WMM1000M
ADDITIONAL MODELS	N/A
FCC ID	2BU4H-WMM1000M
NOMINAL VOLTAGE	DC 3.8V from Li-ion battery
MODULATION TYPE	GFSK
OPERATING FREQUENCY	2402MHz-2480MHz
PEAK OUTPUT POWER	1.730mW (Max. Measured)
ANTENNA TYPE	Chip Antenna, 1.75dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

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.: 2602WDG0163-1) for detailed product photo.



3.2 DESCRIPTION OF TEST MODES

79 channels are provided for GFSK 1M&2M:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH01	2402	CH28	2429	CH55	2456
CH02	2403	CH29	2430	CH56	2457
CH03	2404	CH30	2431	CH57	2458
CH04	2405	CH31	2432	CH58	2459
CH05	2406	CH32	2433	CH59	2460
CH06	2407	CH33	2434	CH60	2461
CH07	2408	CH34	2435	CH61	2462
CH08	2409	CH35	2436	CH62	2463
CH09	2410	CH36	2437	CH63	2464
CH10	2411	CH37	2438	CH64	2465
CH11	2412	CH38	2439	CH65	2466
CH12	2413	CH39	2440	CH66	2467
CH13	2414	CH40	2441	CH67	2468
CH14	2415	CH41	2442	CH68	2469
CH15	2416	CH42	2443	CH69	2470
CH16	2417	CH43	2444	CH70	2471
CH17	2418	CH44	2445	CH71	2472
CH18	2419	CH45	2446	CH72	2473
CH19	2420	CH46	2447	CH73	2474
CH20	2421	CH47	2448	CH74	2475
CH21	2422	CH48	2449	CH75	2476
CH22	2423	CH49	2450	CH76	2477
CH23	2424	CH50	2451	CH77	2478
CH24	2425	CH51	2452	CH78	2479
CH25	2426	CH52	2453	CH79	2480
CH26	2477	CH53	2454		
CH27	2428	CH54	2455		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, power supply voltage range and antenna ports. The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	-	√	DC 3.8V from battery

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
2.4GHz SRD	1 to 79	79	GFSK	1
2.4GHz SRD	1 to 79	79	GFSK	2

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
2.4GHz SRD	1 to 79	1, 39, 79	GFSK	1
2.4GHz SRD	1 to 79	1, 39, 79	GFSK	2

**ANTENNA PORT CONDUCTED MEASUREMENT:**

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
2.4GHz SRD	1 to 79	1, 39, 79	GFSK	1
2.4GHz SRD	1 to 79	1, 39, 79	GFSK	2

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25deg. C, 55%RH	DC 3.8V from battery	Ludius
RE≥1G	25deg. C, 55%RH	DC 3.8V from battery	Ludius
PLC	N/A	N/A	N/A
APCM	20deg. C, 55%RH	DC 3.8V from battery	Vincent



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 15.247

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

Note: 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 with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

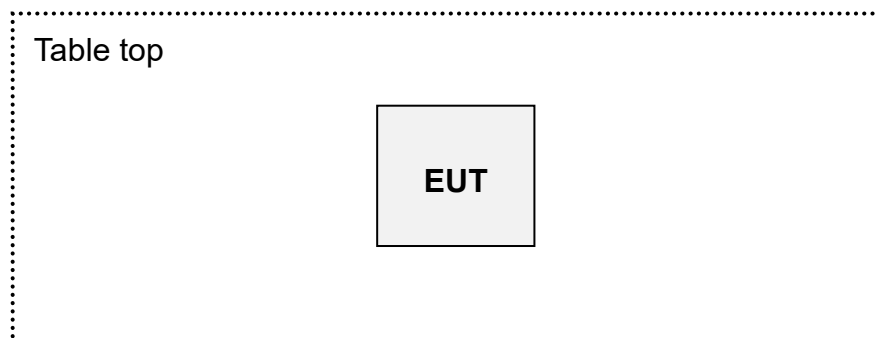
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	Provided by
1	Notebook	DELL	Latitude 5420	127710614	Lab
2	Dongle	N/A	ERX-429	N/A	Lab

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.0m; DC Line: Unshielded, Detachable 1.5m.



3.5 CONFIGURATION OF SYSTEM UNDER TEST

For Radiated Emission Test



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



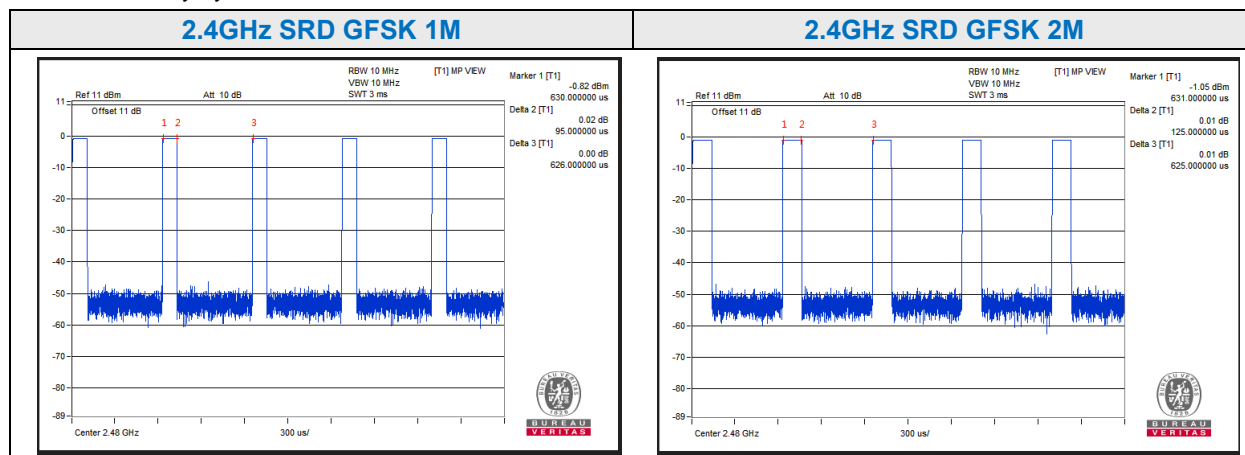
Test Report No.: RF2602WDG0163-1

3.6 DUTY CYCLE OF TESET SIGNAL

Test Mode	On Time (ms)	Period (ms)	Duty Cycle (Linear)	Duty Cycle (%)	1/T Min. VBW (KHz)
2.4GHz SRD 1M	0.095	0.626	0.1518	15.18	20
2.4GHz SRD 2M	0.125	0.625	0.2000	20.00	10

2.4GHz SRD: Duty Cycle= On Time/ Period = 0.095 / 0.626 = 0.1518

2.4GHz SRD: Duty Cycle= On Time/ Period = 0.125 / 0.625 = 0.2000





4 TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/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.



4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Oct. 09, 26
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Apr. 07, 26
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	Apr. 13, 26
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Feb. 12, 27
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 14, 26
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	0085519	Oct. 11, 26
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	Apr. 19, 26
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 17, 26
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Feb. 12, 27
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Oct. 10, 26

NOTE:

1. The test was performed in 966 Chamber.
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.
4. The FCC Site registration No. is 749762, and the designation number is CN1174.



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. For below 1GHz was used bilog antenna, and above 1GHz was used horn 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. 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. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) Average detection (AV) at frequency above 1GHz.
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.

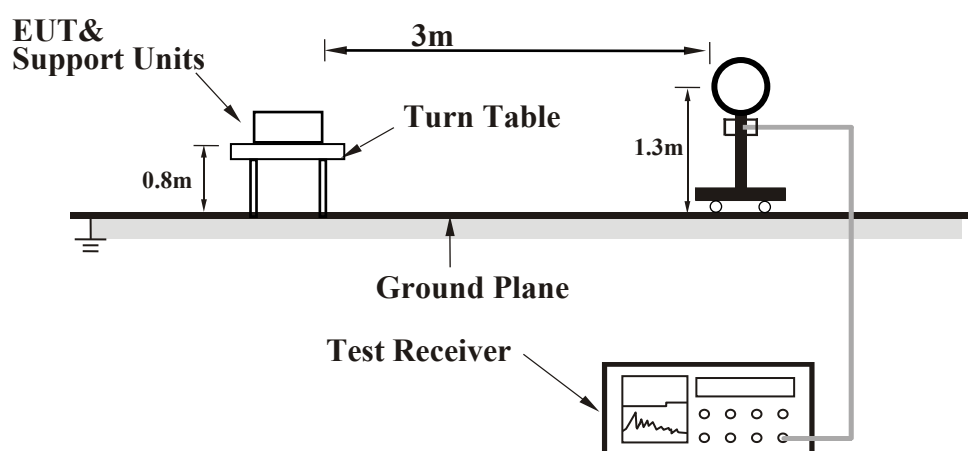


4.1.4 DEVIATION FROM TEST STANDARD

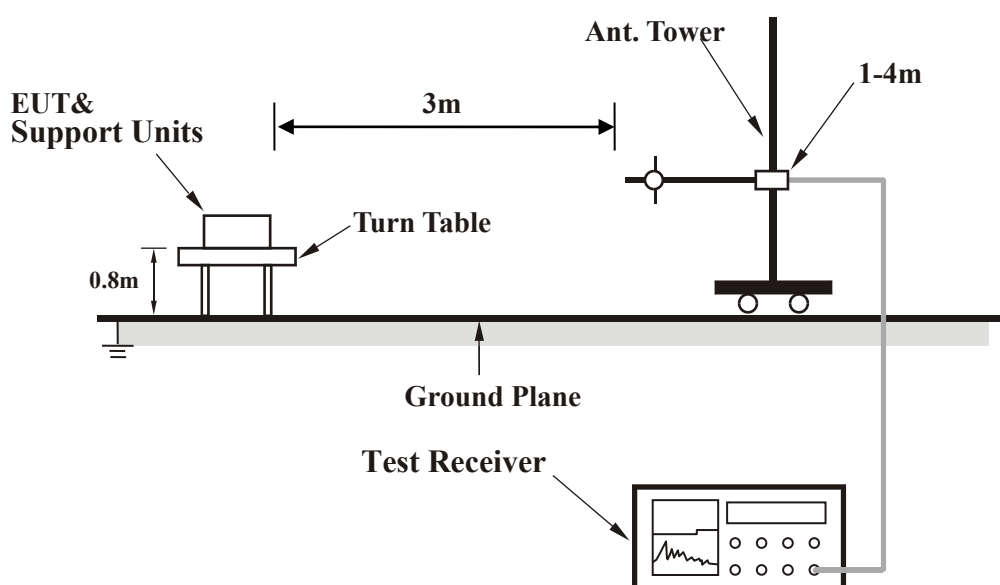
No deviation.

4.1.5 TEST SETUP

Below 30MHz test setup

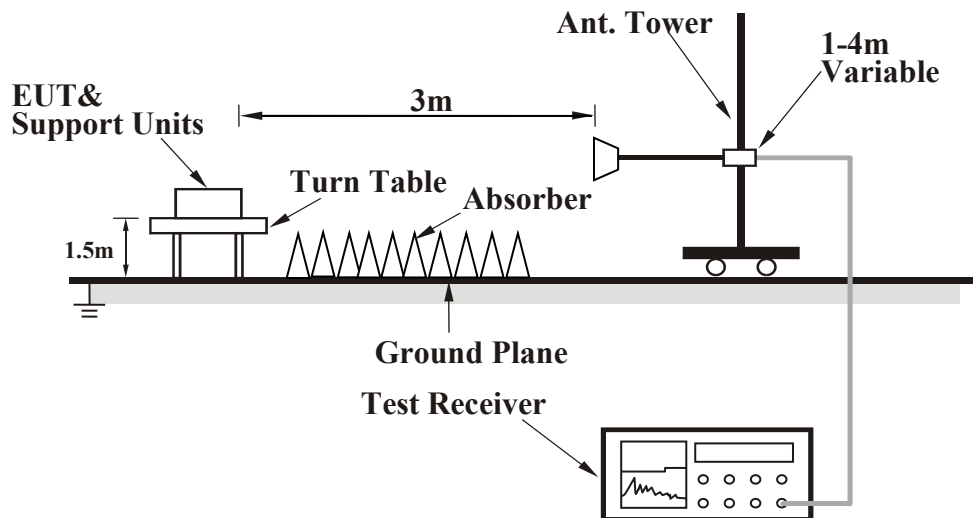


Below 1GHz test setup





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

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



4.1.7 TEST RESULTS

BELOW 1GHz WORST TEST DATA:

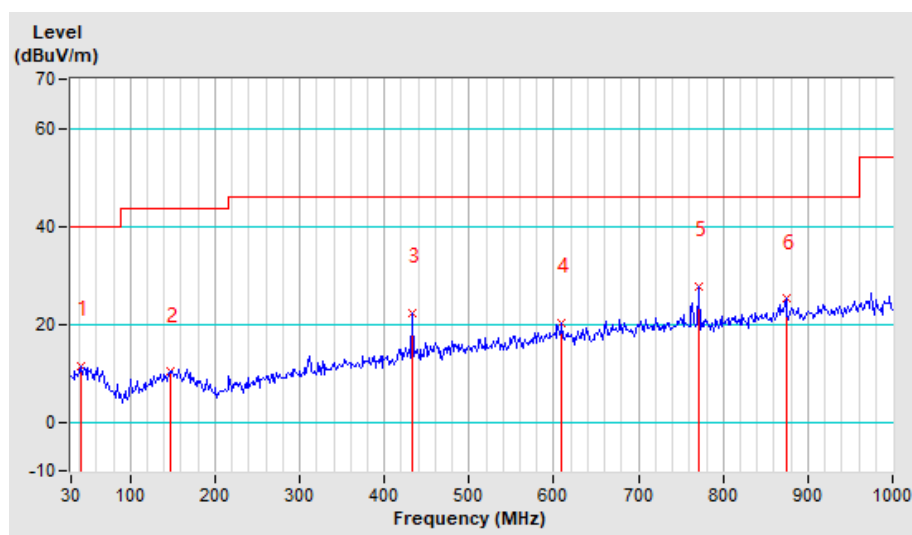
GFSK 1M

CHANNEL	TX Channel 79	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	40.88	11.39 QP	40.00	-28.61	2.18 H	131	28.55	-17.16
2	146.59	10.20 QP	43.50	-33.30	1.94 H	107	26.82	-16.62
3	432.61	22.15 QP	46.00	-23.85	1.39 H	53	34.14	-11.99
4	609.82	20.17 QP	46.00	-25.83	2.38 H	151	28.11	-7.94
5	771.49	27.62 QP	46.00	-18.38	1.62 H	76	33.42	-5.80
6	874.09	25.15 QP	46.00	-20.85	1.76 H	89	29.27	-4.12

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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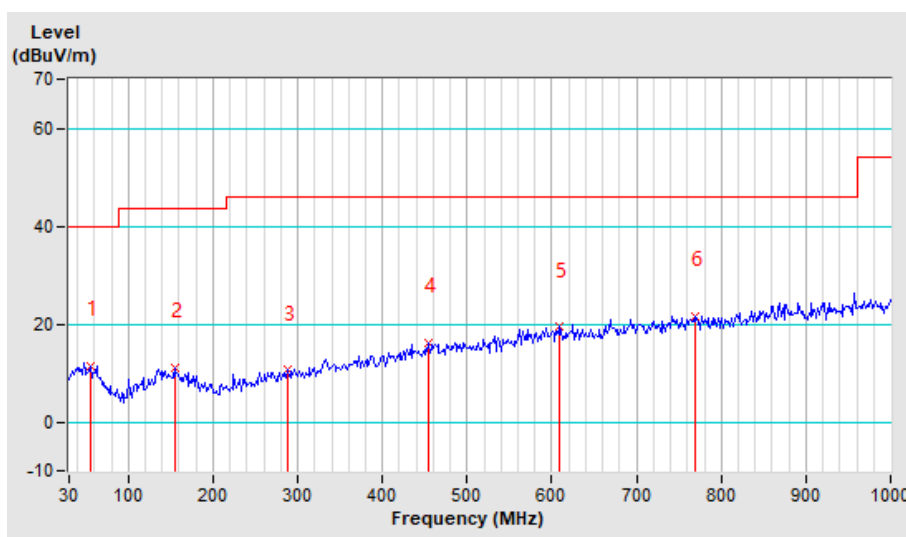
Test Report No.: RF2602WDG0163-1

CHANNEL	TX Channel 79	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	54.87	11.48 QP	40.00	-28.52	1.97 V	130	28.30	-16.82
2	154.36	11.17 QP	43.50	-32.33	2.16 V	149	27.72	-16.55
3	288.04	10.54 QP	46.00	-35.46	1.83 V	116	26.72	-16.18
4	454.37	16.14 QP	46.00	-29.86	2.33 V	166	27.54	-11.40
5	609.82	19.36 QP	46.00	-26.64	2.76 V	208	27.30	-7.94
6	768.38	21.55 QP	46.00	-24.45	2.60 V	192	27.34	-5.79

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 TEST DATA:

GFSK 1M:

CHANNEL	TX Channel 1	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	2390.00	42.52 PK	74.00	-31.48	1.57 H	117	40.33	2.19
2	2390.00	32.87 AV	54.00	-21.13	1.57 H	117	30.68	2.19
3	*2402.00	94.42 PK			1.15 H	205	92.20	2.22
4	*2402.00	93.11 AV			1.15 H	205	90.89	2.22
5	4804.00	50.36 PK	74.00	-23.64	1.78 H	136	43.46	6.90
6	4804.00	39.39 AV	54.00	-14.61	1.78 H	136	32.49	6.90
7	7206.00	52.47 PK	74.00	-21.53	1.68 H	234	41.25	11.22
8	7206.00	41.72 AV	54.00	-12.28	1.68 H	234	30.50	11.22
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	2390.00	42.83 PK	74.00	-31.17	1.58 V	35	40.64	2.19
2	2390.00	32.58 AV	54.00	-21.42	1.58 V	35	30.39	2.19
3	*2402.00	89.30 PK			1.56 V	253	87.08	2.22
4	*2402.00	87.95 AV			1.56 V	253	85.73	2.22
5	4804.00	49.07 PK	74.00	-24.93	2.45 V	48	42.17	6.90
6	4804.00	37.95 AV	54.00	-16.05	2.45 V	48	31.05	6.90
7	7206.00	52.51 PK	74.00	-21.49	3.05 V	159	41.29	11.22
8	7206.00	42.02 AV	54.00	-11.98	3.05 V	159	30.80	11.22

REMARKS:

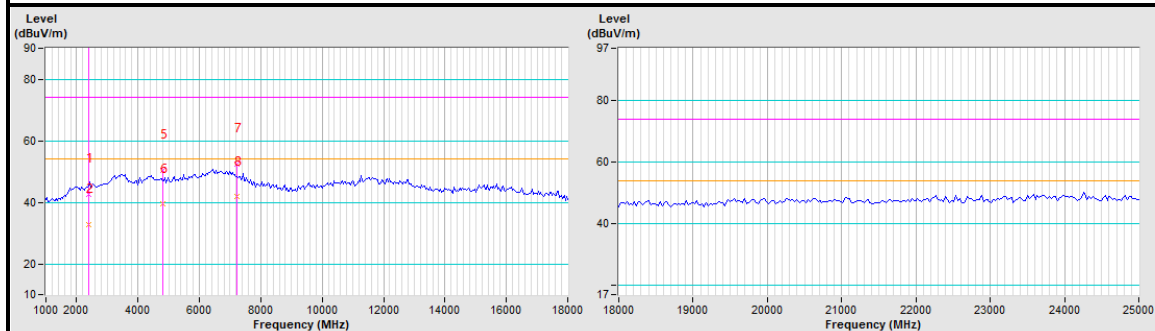
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



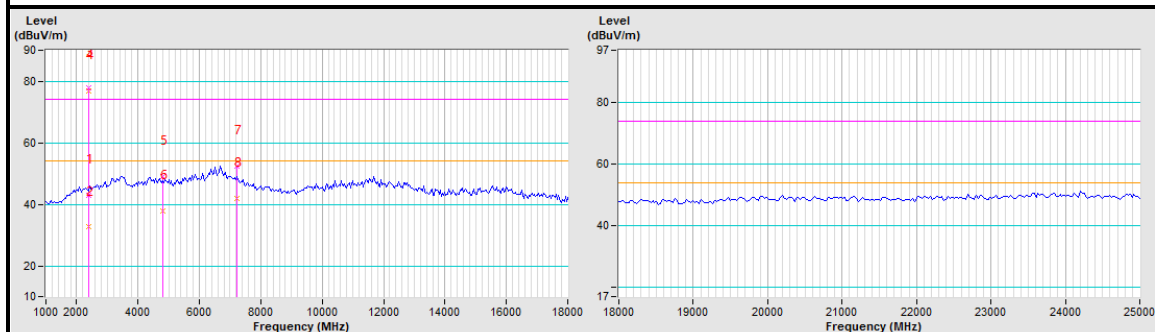
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Test Report No.: RF2602WDG0163-1

Horizontal



Vertical





CHANNEL	TX Channel 39	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	*2440.00	94.16 PK			3.24 H	145	91.86	2.30
2	*2440.00	92.40 AV			3.24 H	145	90.10	2.30
3	4880.00	48.93 PK	74.00	-25.07	2.54 H	314	42.12	6.81
4	4880.00	38.41 AV	54.00	-15.59	2.54 H	314	31.60	6.81
5	7320.00	52.30 PK	74.00	-21.70	1.57 H	238	41.02	11.28
6	7320.00	41.56 AV	54.00	-12.44	1.57 H	238	30.28	11.28
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	*2440.00	94.84 PK			1.89 V	278	92.54	2.30
2	*2440.00	94.12 AV			1.89 V	278	91.82	2.30
3	4880.00	49.21 PK	74.00	-24.79	3.24 V	119	42.40	6.81
4	4880.00	38.39 AV	54.00	-15.61	3.24 V	119	31.58	6.81
5	7320.00	52.62 PK	74.00	-21.38	2.56 V	214	41.34	11.28
6	7320.00	41.63 AV	54.00	-12.37	2.56 V	214	30.35	11.28

REMARKS:

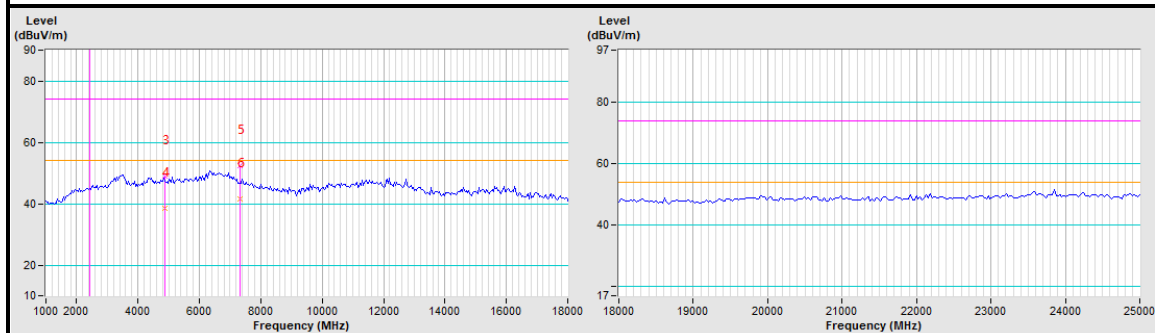
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



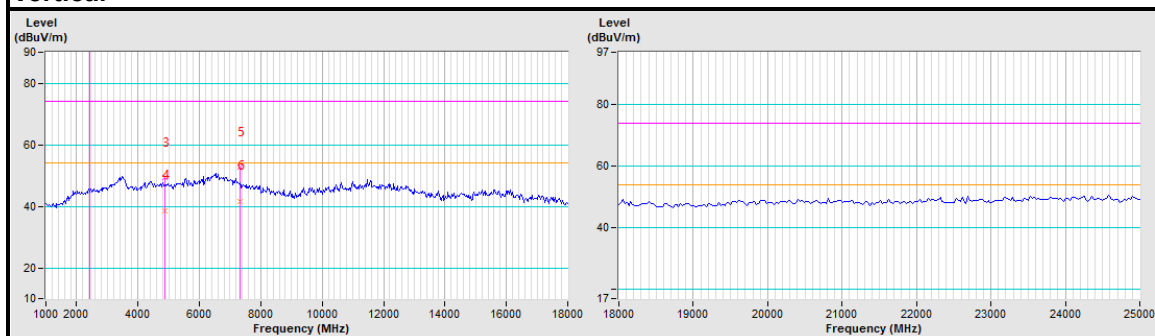
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Horizontal



Vertical



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CHANNEL	TX Channel 79	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	*2480.00	96.70 PK			1.25 H	315	94.30	2.40
2	*2480.00	94.17 AV			1.25 H	315	91.77	2.40
3	2483.50	43.15 PK	74.00	-30.85	2.04 H	139	40.74	2.41
4	2483.50	33.89 AV	54.00	-20.11	2.04 H	139	31.48	2.41
5	4960.00	50.03 PK	74.00	-23.97	3.01 H	249	43.31	6.72
6	4960.00	38.06 AV	54.00	-15.94	3.01 H	249	31.34	6.72
7	7440.00	52.56 PK	74.00	-21.44	2.64 H	194	41.21	11.35
8	7440.00	41.62 AV	54.00	-12.38	2.64 H	194	30.27	11.35
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	*2480.00	92.26 PK			2.48 V	119	89.86	2.40
2	*2480.00	91.20 AV			2.48 V	119	88.80	2.40
3	2483.50	43.92 PK	74.00	-30.08	2.47 V	168	41.51	2.41
4	2483.50	34.08 AV	54.00	-19.92	2.47 V	168	31.67	2.41
5	4960.00	49.01 PK	74.00	-24.99	1.67 V	241	42.29	6.72
6	4960.00	38.31 AV	54.00	-15.69	1.67 V	241	31.59	6.72
7	7440.00	53.97 PK	74.00	-20.03	2.13 V	206	42.62	11.35
8	7440.00	43.97 AV	54.00	-10.03	2.13 V	206	32.62	11.35

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.

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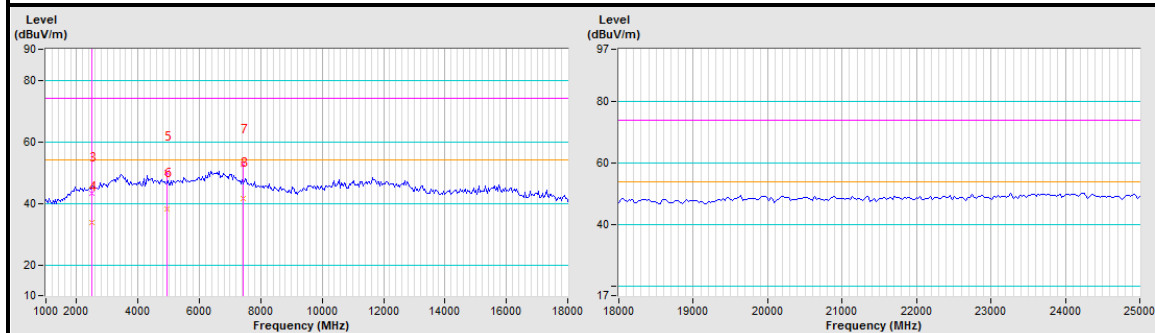
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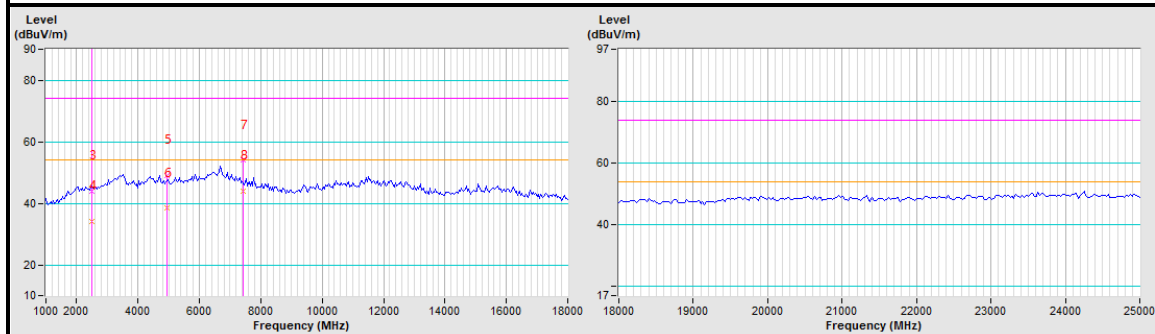
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Horizontal



Vertical



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Test Report No.: RF2602WDG0163-1

FSK 2M:

CHANNEL	TX Channel 1	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	2390.00	42.57 PK	74.00	-31.43	3.04 H	209	40.38	2.19
2	2390.00	31.48 AV	54.00	-22.52	3.04 H	209	29.29	2.19
3	*2402.00	94.16 PK			1.64 H	245	91.94	2.22
4	*2402.00	93.24 AV			1.64 H	245	91.02	2.22
5	4804.00	49.22 PK	74.00	-24.78	2.87 H	305	42.32	6.90
6	4804.00	37.17 AV	54.00	-16.83	2.87 H	305	30.27	6.90
7	7206.00	52.73 PK	74.00	-21.27	1.15 H	244	41.51	11.22
8	7206.00	40.33 AV	54.00	-13.67	1.15 H	244	29.11	11.22
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	2390.00	43.04 PK	74.00	-30.96	1.56 V	45	40.85	2.19
2	2390.00	31.39 AV	54.00	-22.61	1.56 V	45	29.20	2.19
3	*2402.00	92.16 PK			1.65 V	45	89.94	2.22
4	*2402.00	74.11 AV			1.65 V	45	71.89	2.22
5	4804.00	50.45 PK	74.00	-23.55	1.56 V	45	43.55	6.90
6	4804.00	37.89 AV	54.00	-16.11	1.56 V	45	30.99	6.90
7	7206.00	52.76 PK	74.00	-21.24	1.56 V	45	41.54	11.22
8	7206.00	40.48 AV	54.00	-13.52	1.56 V	45	29.26	11.22

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.

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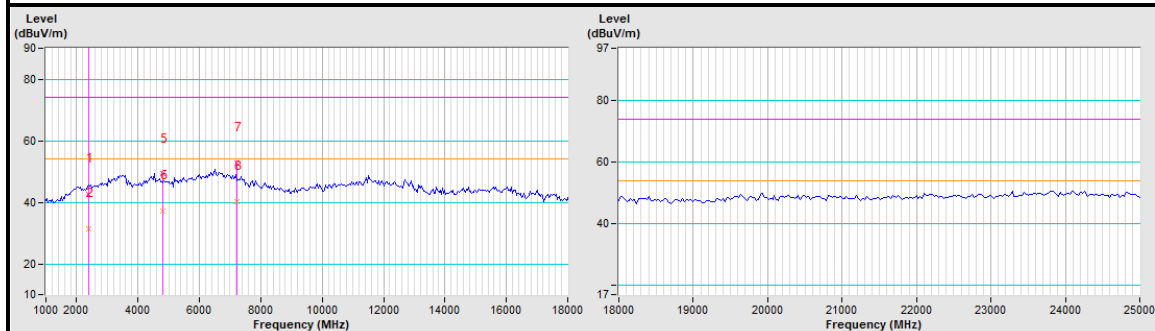
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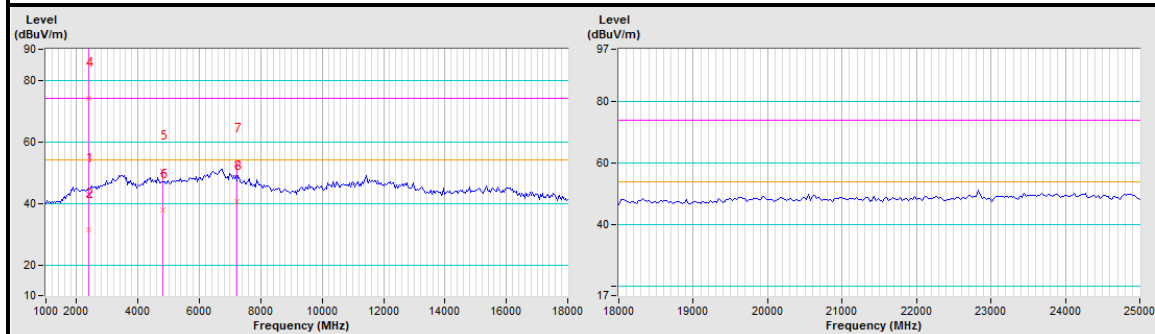
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Horizontal



Vertical





CHANNEL	TX Channel 39	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	*2440.00	95.16 PK			1.65 H	45	92.86	2.30
2	*2440.00	92.14 AV			1.65 H	45	89.84	2.30
3	4880.00	49.42 PK	74.00	-24.58	1.56 H	12	42.61	6.81
4	4880.00	37.05 AV	54.00	-16.95	1.56 H	12	30.24	6.81
5	7320.00	53.09 PK	74.00	-20.91	1.56 H	15	41.81	11.28
6	7320.00	40.33 AV	54.00	-13.67	1.56 H	15	29.05	11.28
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	*2440.00	94.16 PK			1.65 V	45	91.86	2.30
2	*2440.00	92.13 AV			1.65 V	45	89.83	2.30
3	4880.00	49.04 PK	74.00	-24.96	1.56 V	47	42.23	6.81
4	4880.00	36.08 AV	54.00	-17.92	1.56 V	47	29.27	6.81
5	7320.00	53.77 PK	74.00	-20.23	4.00 V	47	42.49	11.28
6	7320.00	40.51 AV	54.00	-13.49	4.00 V	47	29.23	11.28

REMARKS:

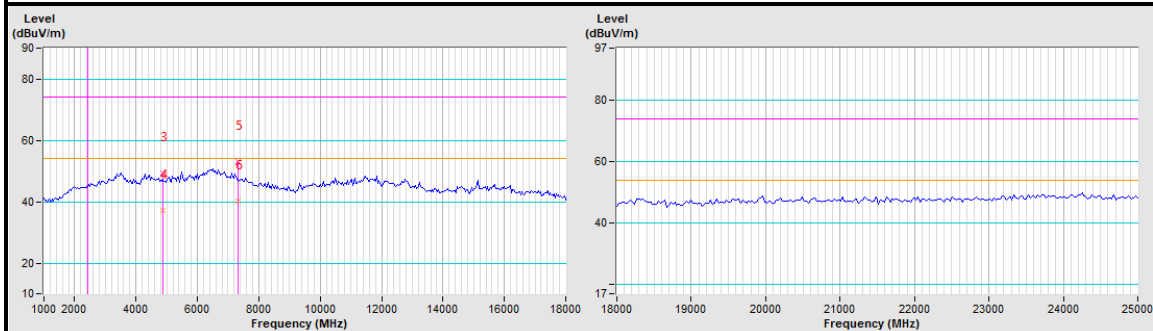
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



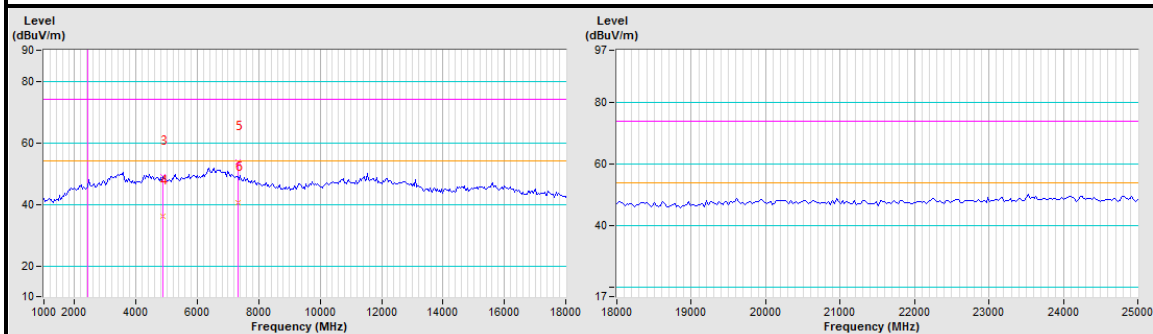
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Horizontal



Vertical



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CHANNEL	TX Channel 79	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	*2480.00	97.10 PK			1.65 H	45	94.70	2.40
2	*2480.00	96.07 AV			1.65 H	45	93.67	2.40
3	2483.50	43.54 PK	74.00	-30.46	1.00 H	360	41.13	2.41
4	2483.50	32.93 AV	54.00	-21.07	1.00 H	360	30.52	2.41
5	4960.00	49.35 PK	74.00	-24.65	1.65 H	45	42.63	6.72
6	4960.00	37.05 AV	54.00	-16.95	1.65 H	45	30.33	6.72
7	7440.00	52.61 PK	74.00	-21.39	4.00 H	2	41.26	11.35
8	7440.00	40.39 AV	54.00	-13.61	4.00 H	2	29.04	11.35
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	*2480.00	91.75 PK			1.65 V	45	89.35	2.40
2	*2480.00	90.63 AV			1.65 V	45	88.23	2.40
3	2483.50	42.81 PK	74.00	-31.19	4.00 V	45	40.40	2.41
4	2483.50	33.00 AV	54.00	-21.00	4.00 V	45	30.59	2.41
5	4960.00	49.59 PK	74.00	-24.41	1.50 V	15	42.87	6.72
6	4960.00	37.33 AV	54.00	-16.67	1.50 V	15	30.61	6.72
7	7440.00	52.89 PK	74.00	-21.11	1.00 V	44	41.54	11.35
8	7440.00	41.61 AV	54.00	-12.39	1.00 V	44	30.26	11.35

REMARKS:

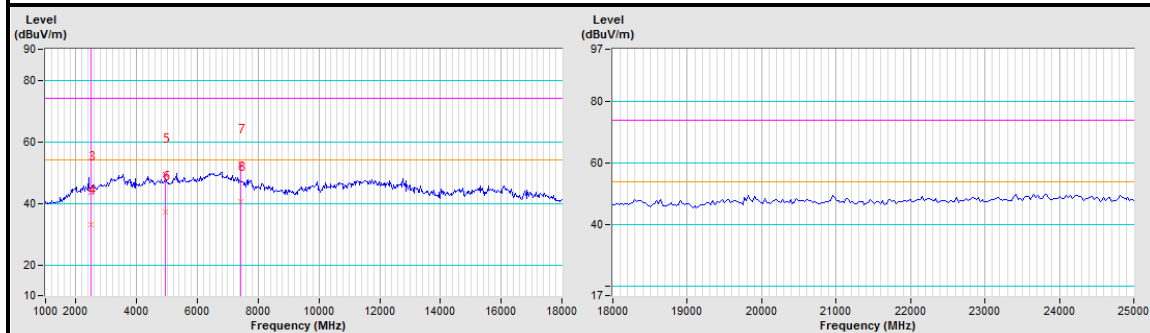
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.



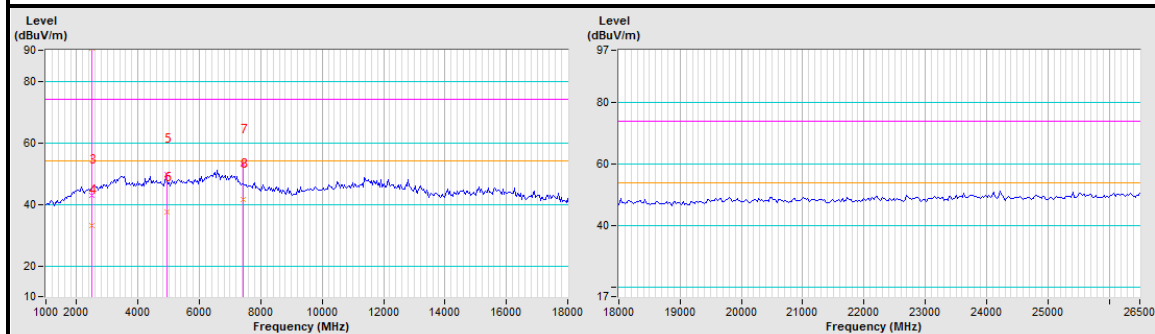
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Horizontal



Vertical





4.2 6dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Apr. 07, 26
Digital Multimeter	FLUKE	15B	12151063	Jun. 03, 26
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 26
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 06, 26
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Oct. 09, 26
Signal Generator	Agilent	N5183A	MY50140980	Jul. 06, 26
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 06, 26
Attenuator	MINI	BW-S10W2+	S130129FGE2	Jul. 06, 26
DC Source	Rohde&Schwarz	HMP2020	101295	Jun. 03, 26
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTE:

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.



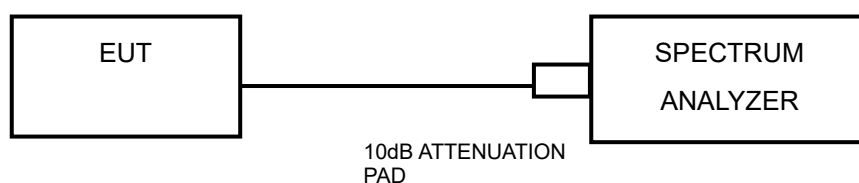
4.2.3 TEST PROCEDURE

1. Set RBW = 100K (shall be in the range of 1% to 5% of OBW, but not less than 100kHz).
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = No faster than coupled(auto) time.
6. Allow the trace to stabilize.
7. 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.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

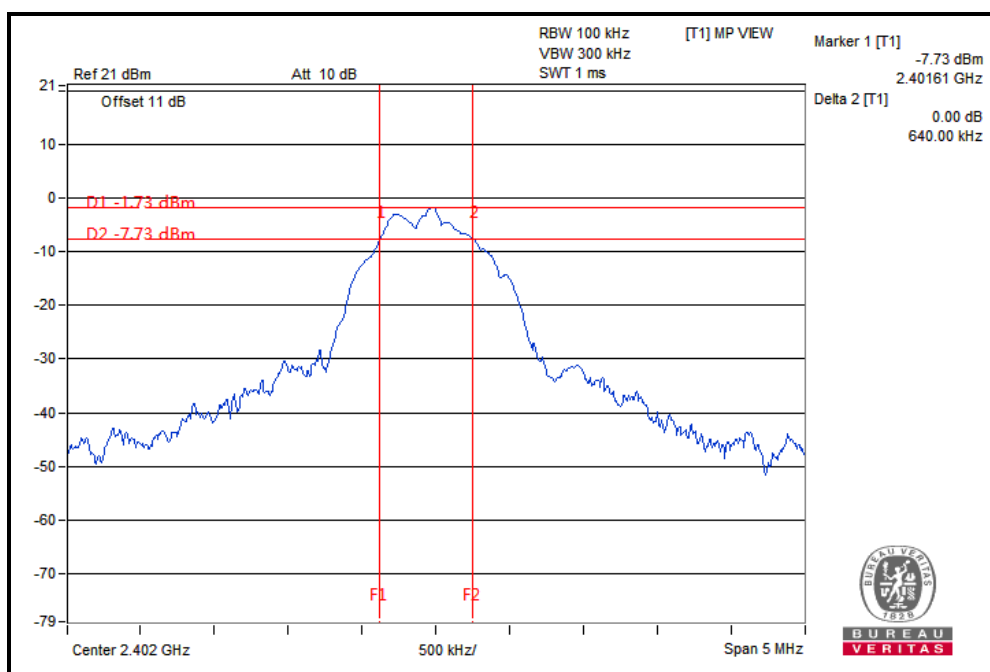


4.2.7 TEST RESULTS

GFSK 1M:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2402	0.640	0.5	PASS
39	2440	0.640	0.5	PASS
79	2480	0.640	0.5	PASS

CH 1

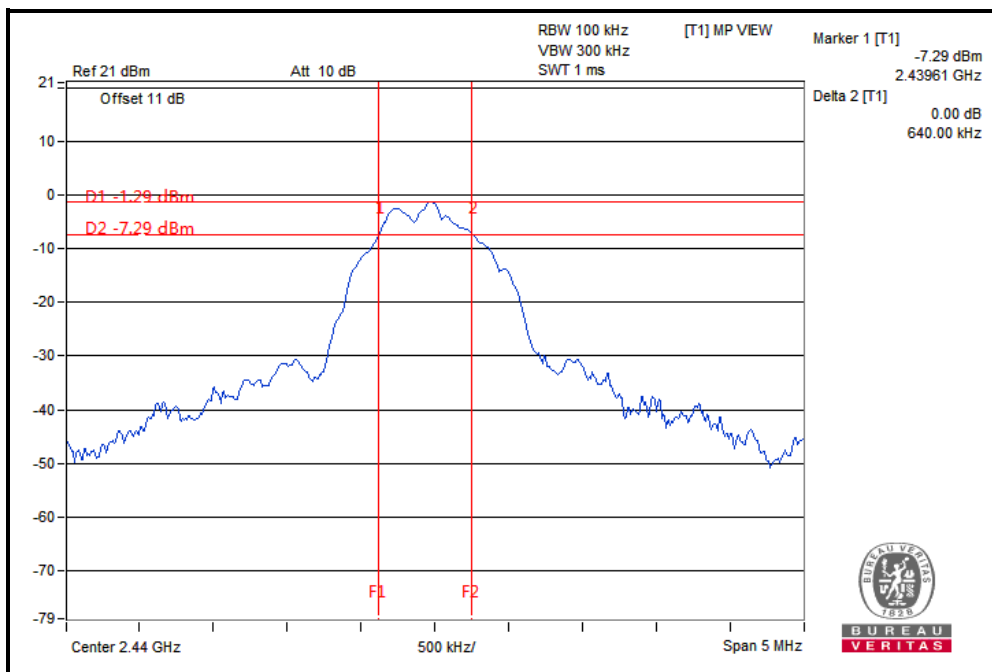




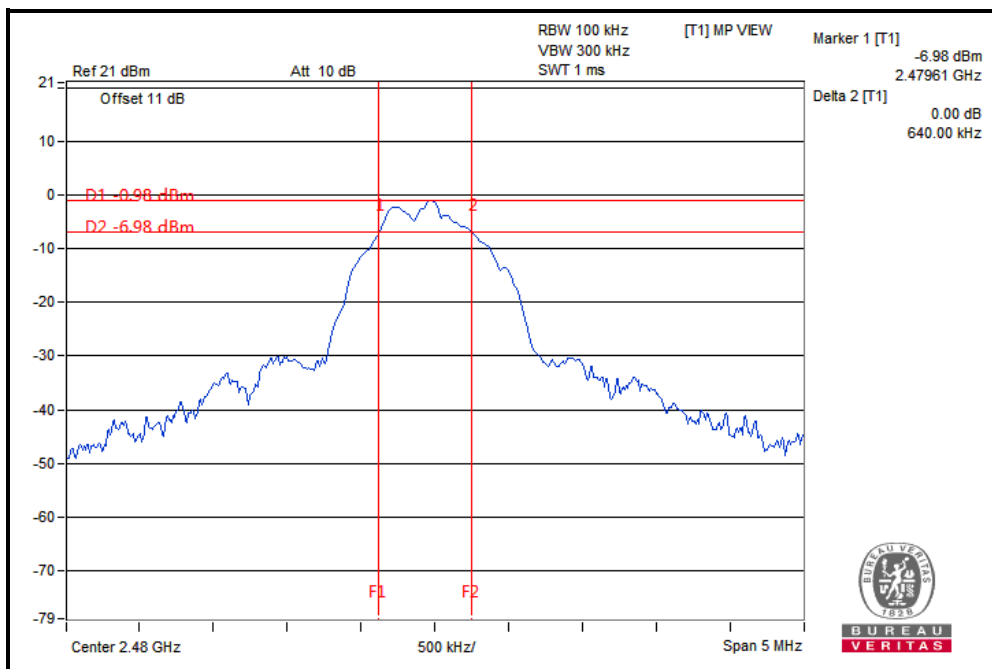
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CH 39



CH 79



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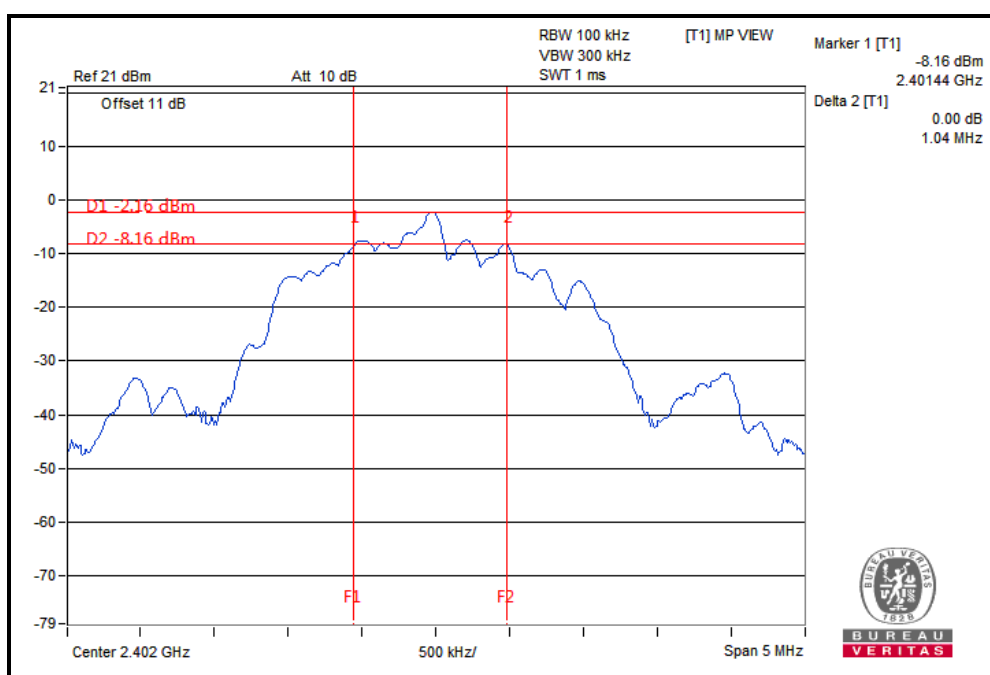
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Test Report No.: RF2602WDG0163-1

GFSK 2M:

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2402	1.04	0.5	PASS
39	2440	1.04	0.5	PASS
79	2480	1.04	0.5	PASS

CH 1

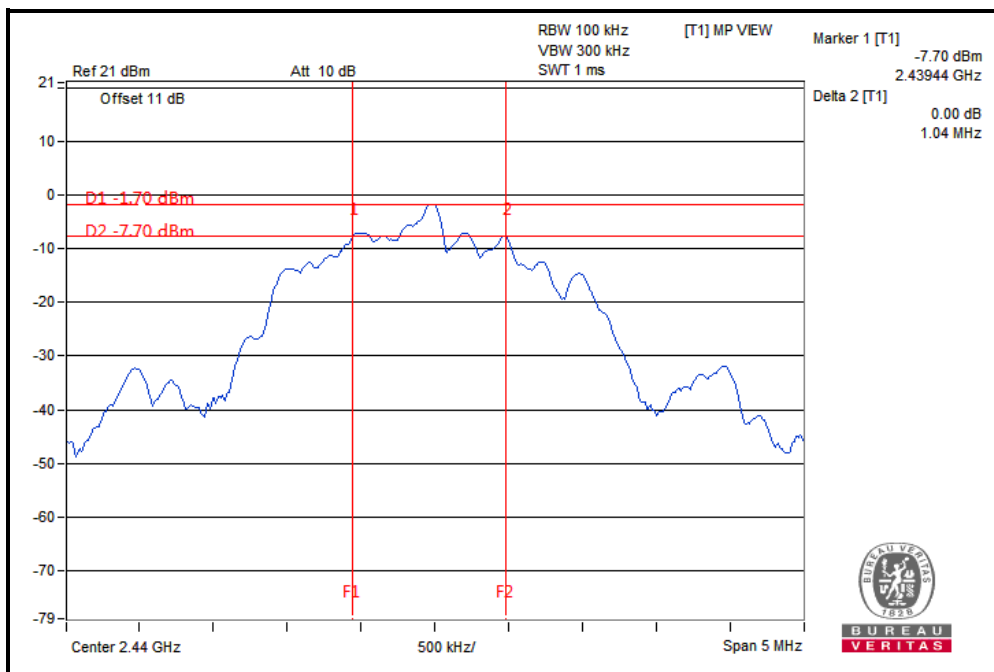




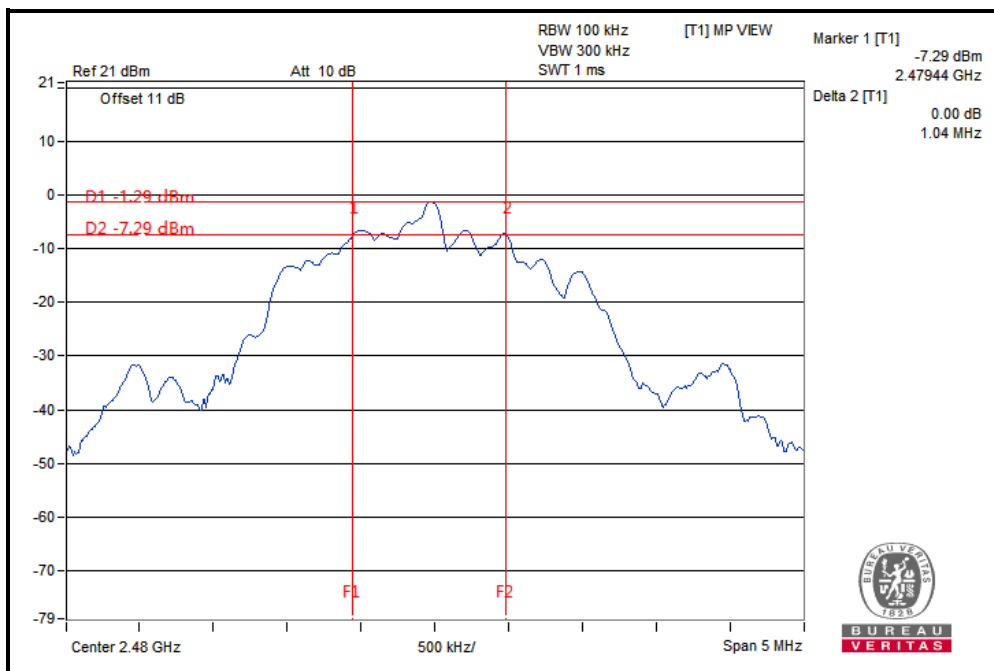
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CH 39



CH 79



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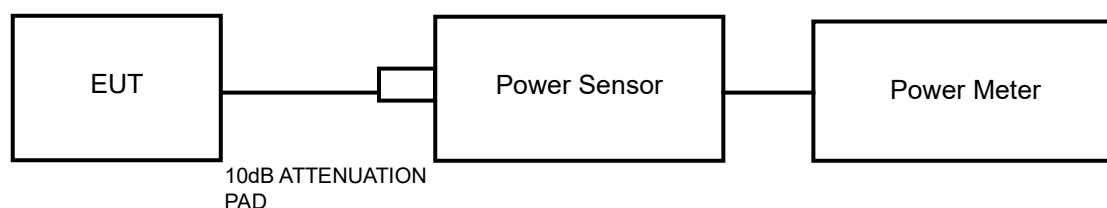


4.3 CONDUCTED OUTPUT POWER

4.3.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.3.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.

An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and set the detector to AVERAGE. Record the power level.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

4.3.7.1 MAXIMUM PEAK OUTPUT POWER

GFSK 1M:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2402	0.46	1.112	1	PASS
39	2440	1.01	1.262	1	PASS
79	2480	1.25	1.334	1	PASS

GFSK 2M:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2402	1.53	1.422	1	PASS
39	2440	2.15	1.641	1	PASS
79	2480	2.38	1.730	1	PASS



4.3.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

GFSK 1M:

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
1	2402	-3.20
39	2440	-2.60
79	2480	-2.35

GFSK 2M:

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
1	2402	-5.51
39	2440	-4.87
79	2480	-4.62

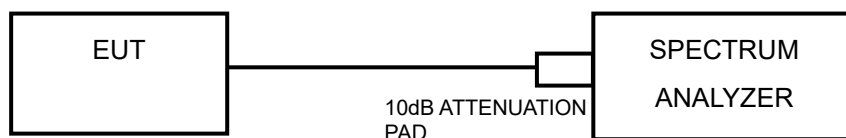


4.4 POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.4.4 TEST PROCEDURE

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span > 1.5 times the DTS bandwidth.
- c) Set RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100\text{KHz}$
- d) Set VBW $\geq 3 \times \text{RBW}$
- e) Detector = peak
- f) Sweep time = No faster than coupled(auto) time,
- g) Trace mode = max hold
- h) allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW(but no less than 3KHz) and repeat.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.



4.4.6 EUT OPERATING CONDITION

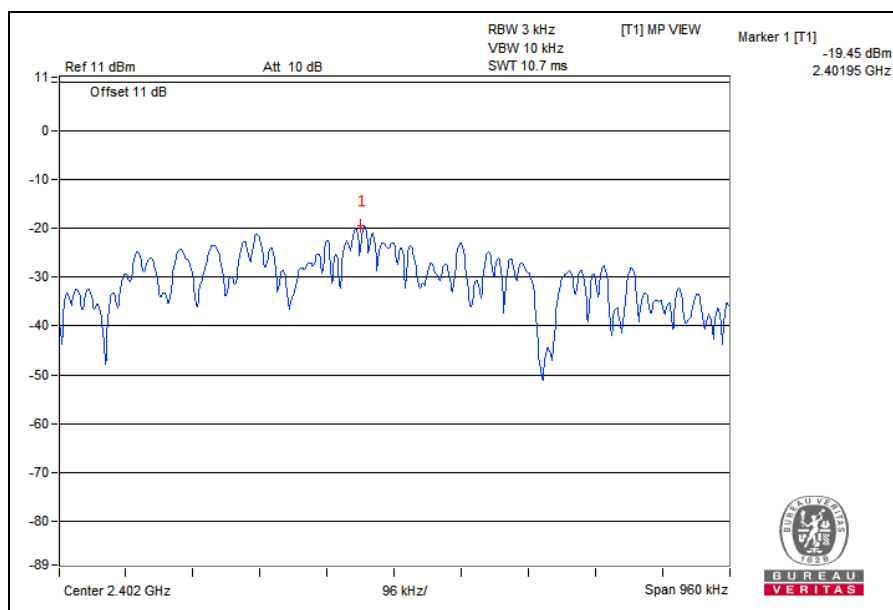
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.7 TEST RESULTS

GFSK 1M:

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2402	-19.45	8	PASS
39	2440	-18.95	8	PASS
79	2480	-18.53	8	PASS

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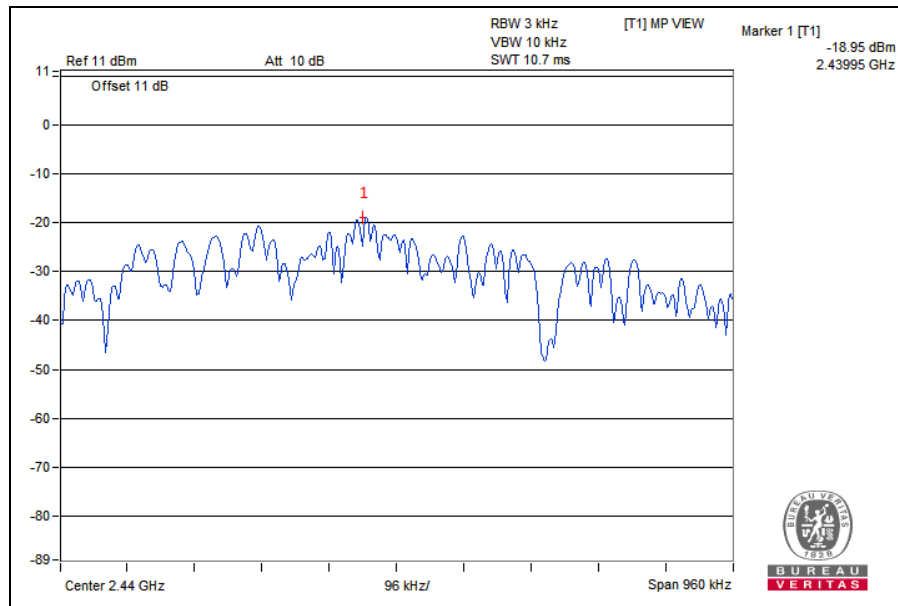




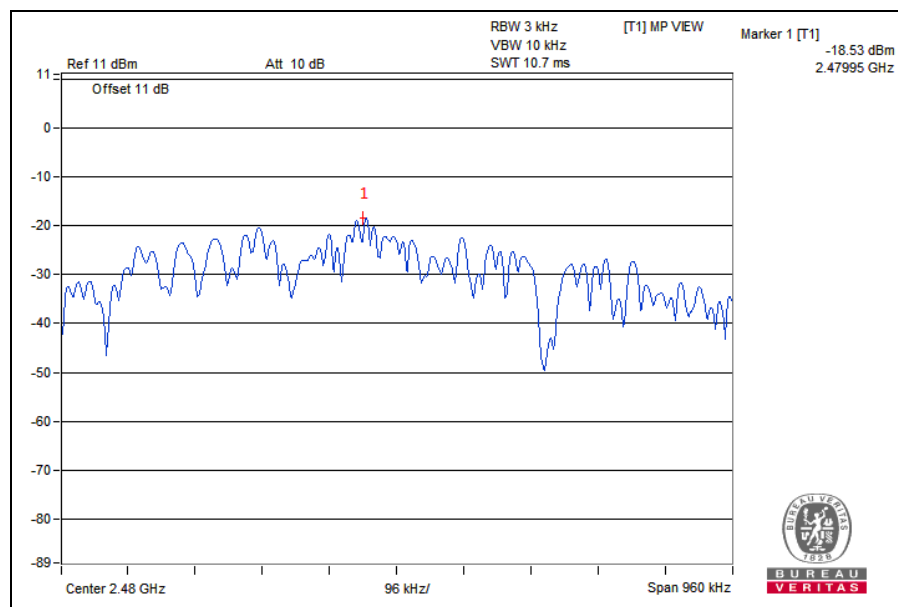
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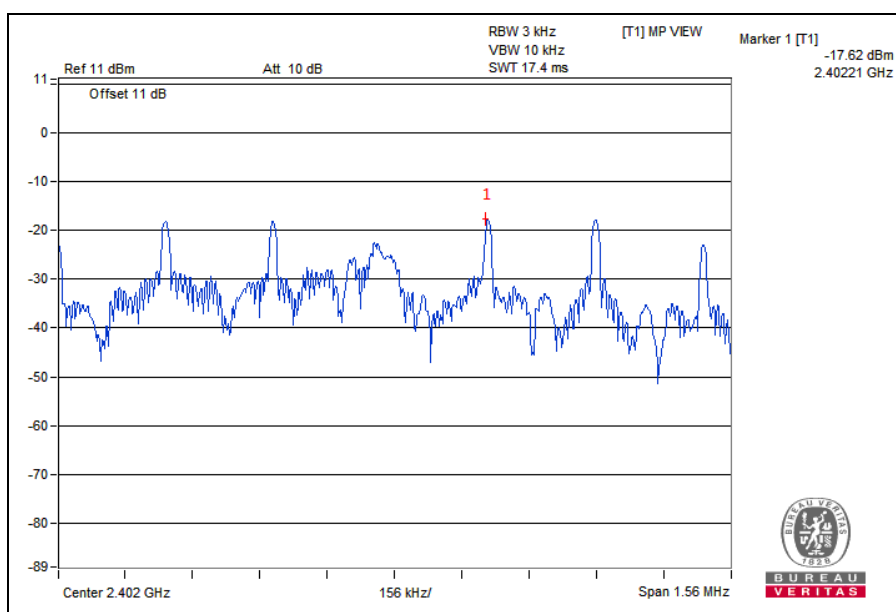
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GFSK 2M:

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2402	-17.62	8	PASS
39	2440	-17.25	8	PASS
79	2480	-16.83	8	PASS

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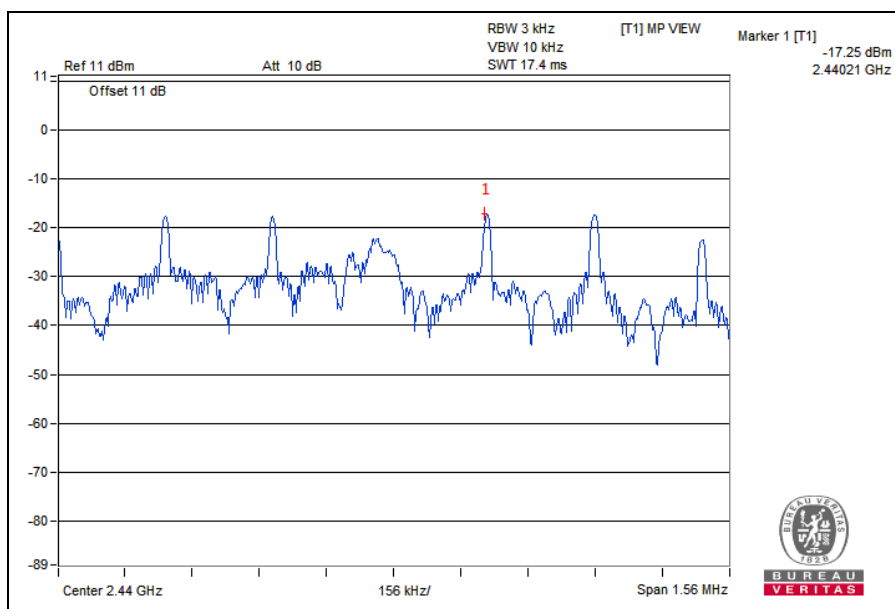
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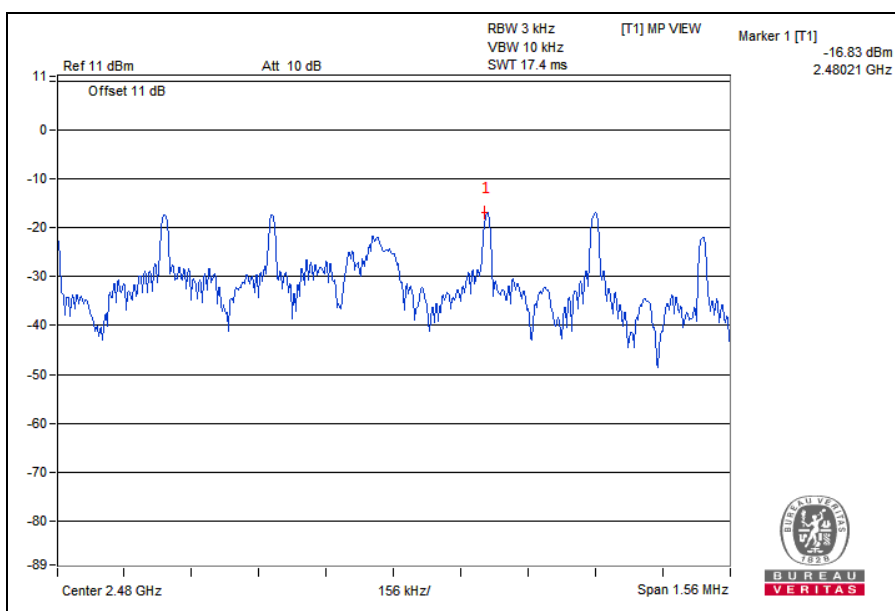
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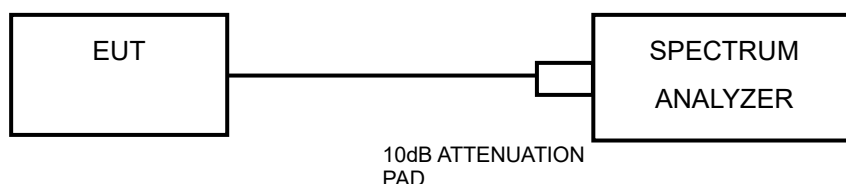


4.5 OUT OF BAND EMISSION MEASUREMENT

4.5.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.2.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set instrument center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW = 100 kHz .
4. Set the VBW $\geq 100\text{kHz}$ ($3 \times \text{RBW}$).
5. Detector = peak.
6. Sweep time = No faster than coupled(auto) time.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum PSD level.



MEASUREMENT PROCEDURE OOB

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set RBW = 100 kHz.
3. Set VBW $\geq$ 300 kHz.
4. Detector = peak.
5. Sweep = No faster than coupled(auto) time.
6. Trace Mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



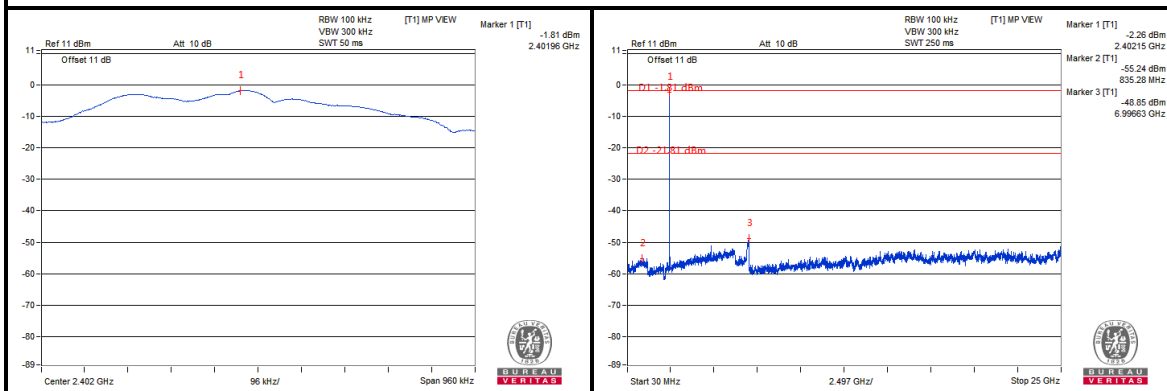
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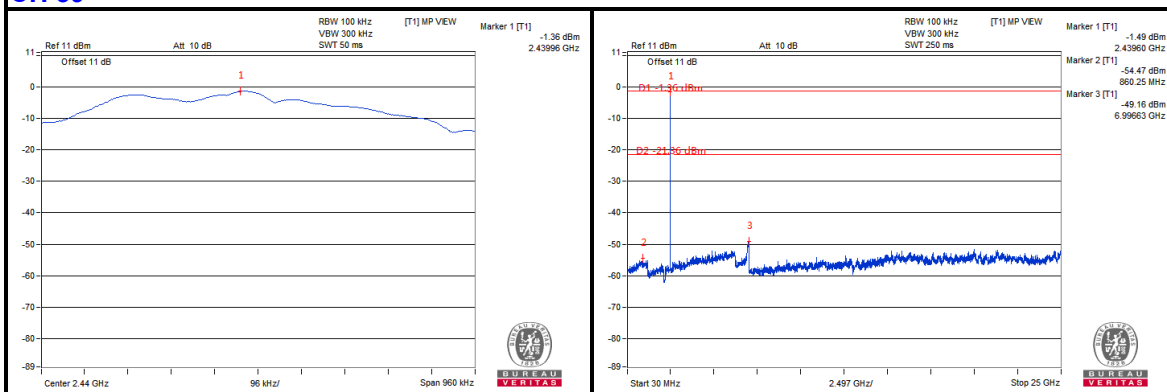
4.5.7 TEST RESULTS

GFSK 1M:

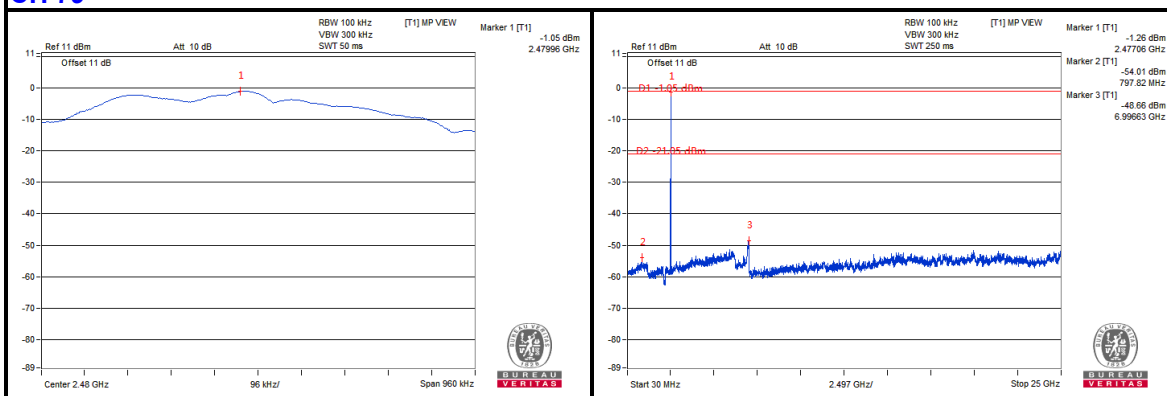
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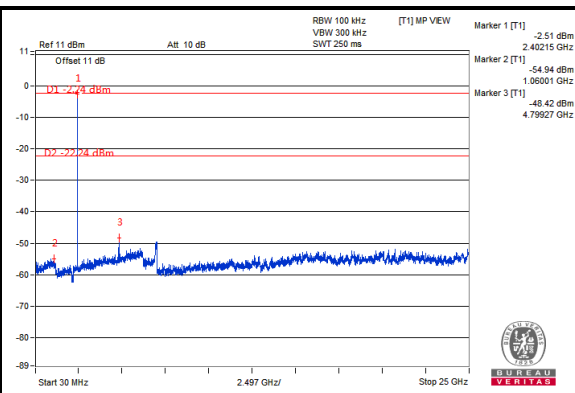
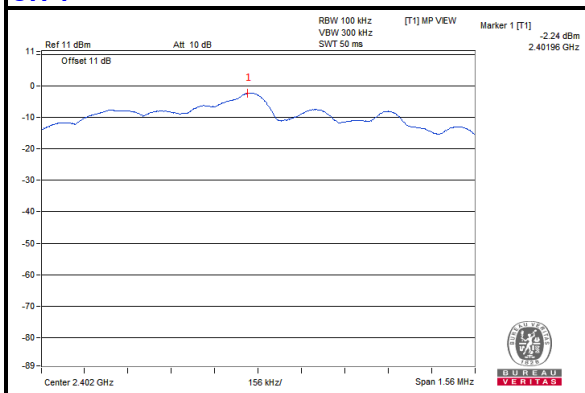


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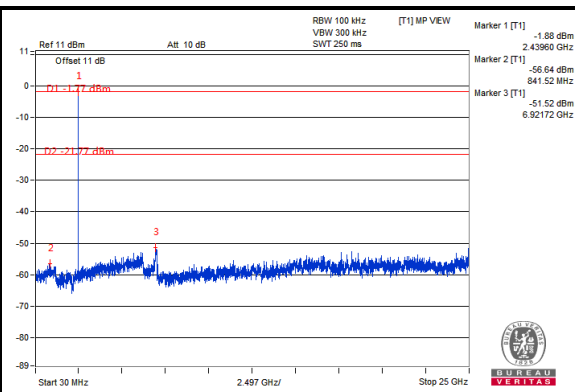
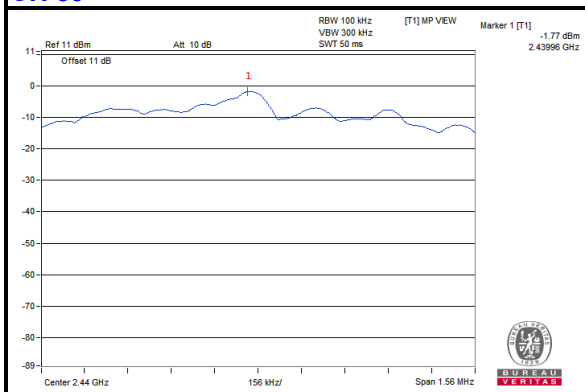
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GFSK 2M:

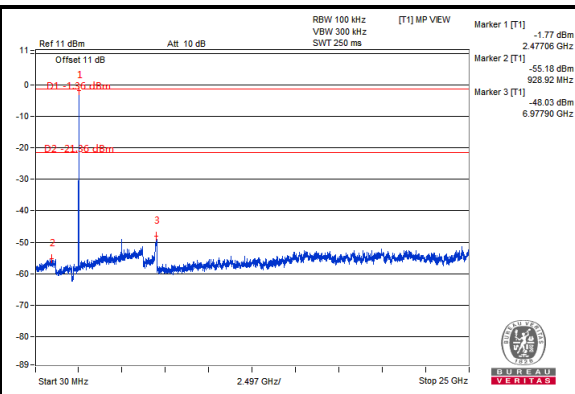
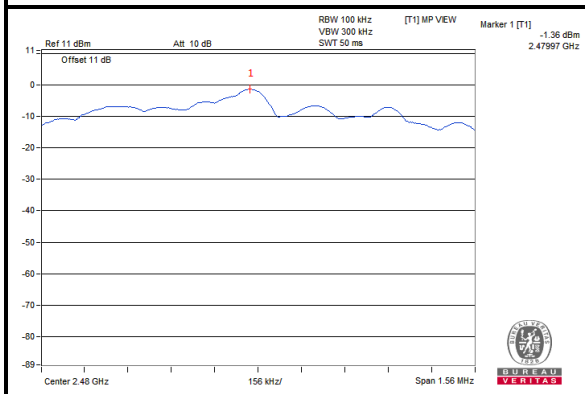
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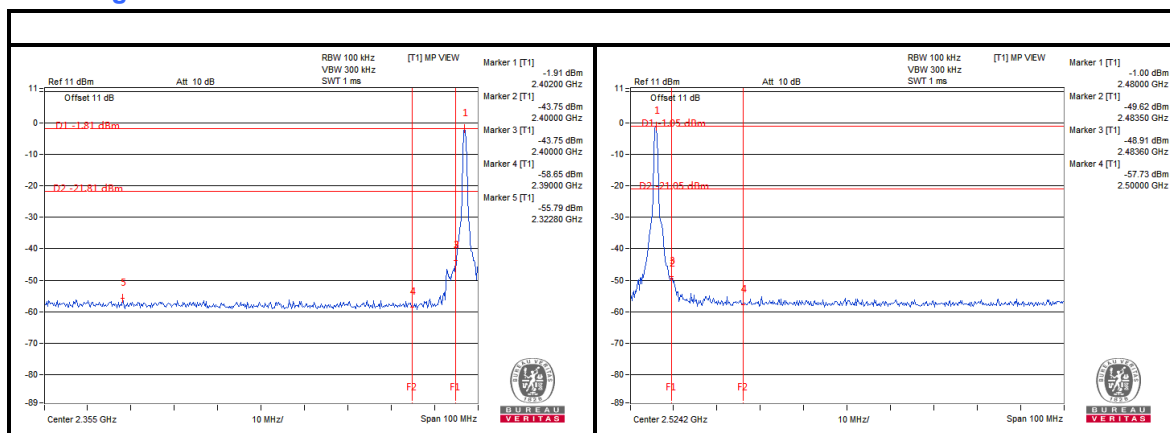
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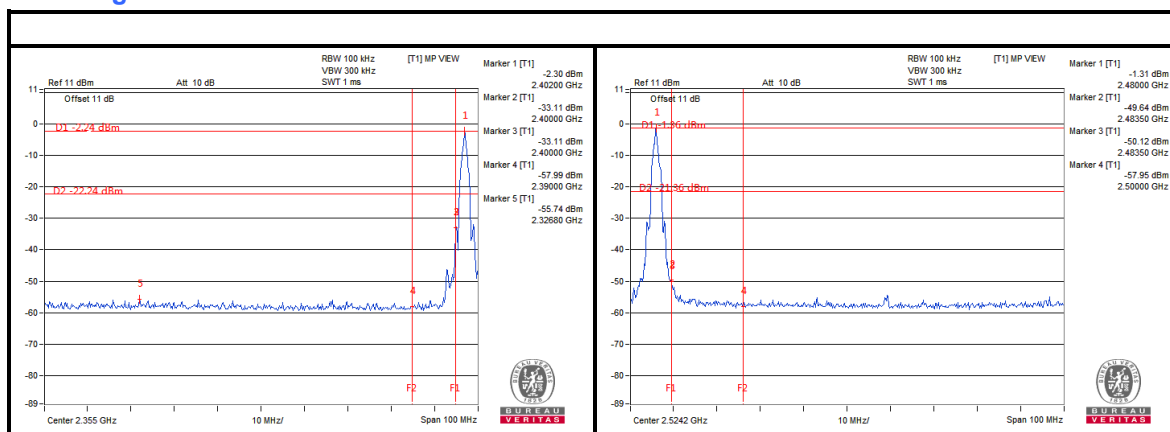
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Band Edge: GFSK 1M:



Band Edge: GFSK 2M:



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6 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 modifications are made to the EUT by the lab during the test.

---END---