



Test Report No.: RF2206WDG0023-2

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Certificate # 2951.01

## TEST REPORT

Applicant	MerchSource, LLC
Address	7755 Irvine Center Drive, Suite 100, Irvine, CA 92618

Manufacturer or Supplier	MerchSource, LLC
Address	7755 Irvine Center Drive, Suite 100, Irvine, CA 92618
Product	Vanity Mirror LED 9inch Double Sided with Speaker Bluetooth
Brand Name	Sharper Image
Model	1015867
Additional Model & Model Difference	101XXXX (where XXXX can be digits 0000-9999 which represent different customers); see items 3.1
Date of tests	Jun. 15, 2022 ~ Jun. 20, 2022

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**

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department

Date: Jul. 13, 2022

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2206WDG0023-2	Original release	Jul. 13, 2022



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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 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
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	0.15MHz ~ 30MHz	3.36dB
Radiated emissions	9KHz ~ 30MHz	2.66dB
	30MHz ~ 1GHz	4.06dB
	1GHz ~ 18GHz	4.90dB
	18GHz ~ 40GHz	4.58dB

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

<b>PRODUCT</b>	Vanity Mirror LED 9inch Double Sided with Speaker Bluetooth
<b>MODEL NO.</b>	1015867
<b>ADDITIONAL MODEL</b>	101XXXX (where XXXX can be digits 0000-9999 which represent different customers)
<b>FCC ID</b>	2AEVM1015867
<b>NOMINAL VOLTAGE</b>	DC 12V from adapter input AC 120V 60Hz or DC 7.4V from Li-ion battery
<b>MODULATION TECHNOLOGY</b>	DTS
<b>MODULATION TYPE</b>	GFSK (1& 2 Mbps)
<b>OPERATING FREQUENCY</b>	2402-2480MHz
<b>PEAK OUTPUT POWER (Max)</b>	0.9638mW
<b>ANTENNA TYPE</b>	PCB Antenna, 0dBi Gain
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	Refer to user's manual

#### NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2206WDG0023) for detailed product photo.
- Additional models 101XXXX (where XXXX can be digits 0000-9999 which represent different customers) are identical in circuitry and electrical ,mechanical and physical construction with the test model 1015867 except the appearance and trade name and model no. for trading purpose;
- The EUT was powered by the following adapter:

ADAPTER:	
BRAND:	N/A
MODEL:	GE120020
INPUT:	AC 100-240V 50/60Hz 1.0A
OUTPUT:	DC12V 2.0A 24.0W
DC Line:	Unshielded, non-detachable, 1.45m



### 3.2 DESCRIPTION OF TEST MODES

40 channels are provided for BT-LE GFSK (1& 2 Mbps):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	<b>2402</b>	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	<b>2440</b>	29	2460	39	<b>2480</b>

#### 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	√	√	√	√	Bluetooth low Energy

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	MODULATION TYPE	DATA RATE (Mbps)
A	0 to 39	39	DTS	GFSK	1
A	0 to 39	39	DTS	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	MODULATION TYPE	DATA RATE (Mbps)
A	0 to 39	0,19, 39	DTS	GFSK	1
A	0 to 39	0,19, 39	DTS	GFSK	2

**POWER LINE CONDUCTED EMISSION TEST:**

- 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	TESTED CONDITION
A	DC 12V from adapter with BT Link

**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	MODULATION TYPE	DATA RATE (Mbps)
A	0 to 39	0,19, 39	DTS	GFSK	1
A	0 to 39	0,19, 39	DTS	GFSK	2



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**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25deg. C, 50%RH	DC 12V From Adapter	Jelly
RE≥1G	25deg. C, 50%RH	DC 12V From Adapter	Jelly
PLC	25deg. C, 58%RH	DC 12V From Adapter	Ryker
APCM	25deg. C, 60%RH	DC 12V From Adapter	Ryker



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### 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  
558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10-2013**

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 without any other necessary accessory or support units.



## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

**NOTES:** 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	100666	Jun. 14, 23
Artificial Mains Network	Rohde&Schwarz	ENV216	102477	Jul. 12, 22
Artificial Mains Network	SCHWARZBECK	NSLK 8127	8127713	Apr. 19, 23
Voltage Probe	SCHWARZBECK	TK 9421	9421-0332	Aug. 22, 22
Current Probe	Rohde&Schwarz	EZ-17	0816.2063.02	Apr. 19, 23
ISN	Rohde&Schwarz	ENY81-CA6	101928	Jun. 14, 23
ISN	TESEQ	ISN T800	34373	Feb. 16, 23
Coaxial RF Cable	COMMATE	CFD300-NL	5D-001	Oct. 19, 22
Shielding Room	Burgeon	5m*4m*3m	D3040008DG-1	Jul. 22, 24
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

**NOTES:**

1. The test was performed in shielded room 543 (Baodun).
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRT/CHINA and NIM/CHINA.



#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

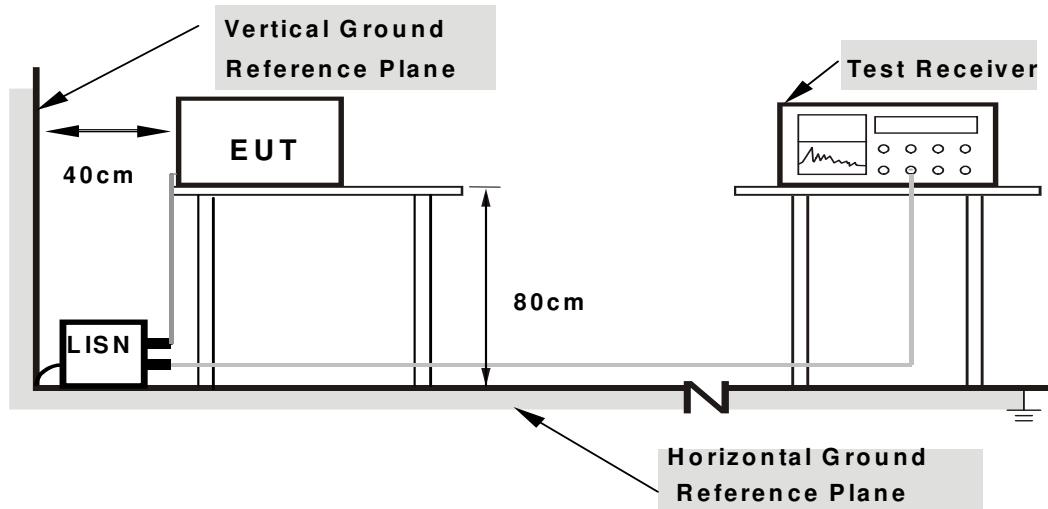
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



#### 4.1.5 TEST SETUP



**Note:**

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected 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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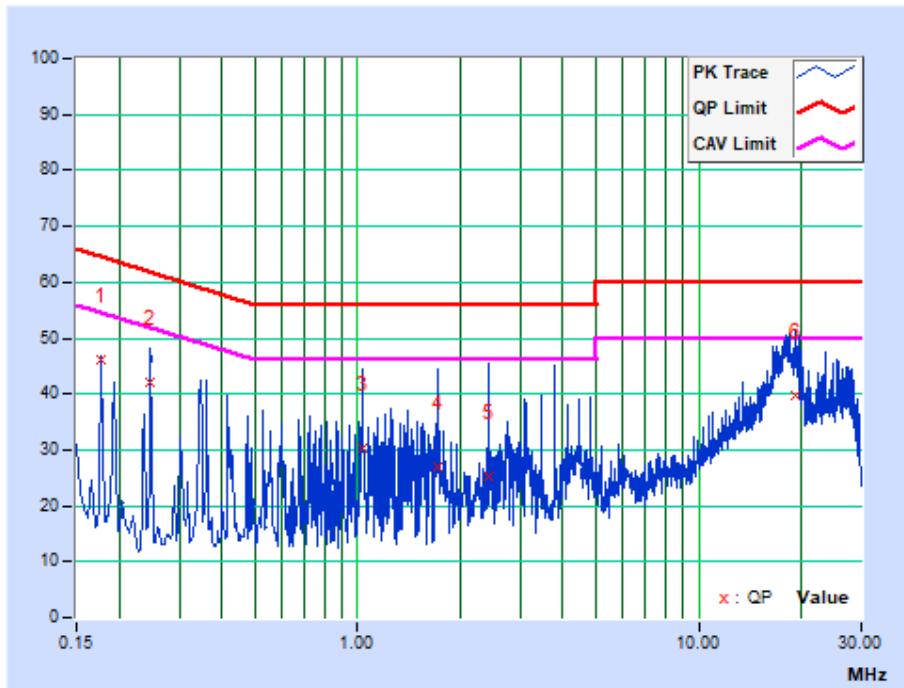
#### 4.1.7 TEST RESULTS

##### CONDUCTED WORST-CASE DATA: BT Link

PHASE	Line	6dB BANDWIDTH		9kHz	
-------	------	---------------	--	------	--

No.	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17737	10.00	36.08	15.85	46.08	25.85	64.61	54.61	-18.53	-28.76
2	0.24775	10.04	31.97	9.82	42.01	19.86	61.83	51.83	-19.82	-31.97
3	1.03366	10.17	20.08	3.88	30.25	14.05	56.00	46.00	-25.75	-31.95
4	1.72182	10.20	16.83	2.42	27.03	12.62	56.00	46.00	-28.97	-33.38
5	2.41389	10.22	14.90	3.80	25.12	14.02	56.00	46.00	-30.88	-31.98
6	19.28163	10.80	29.03	13.34	39.83	24.14	60.00	50.00	-20.17	-25.86

**REMARKS:** The emission levels of other frequencies were very low against the limit.





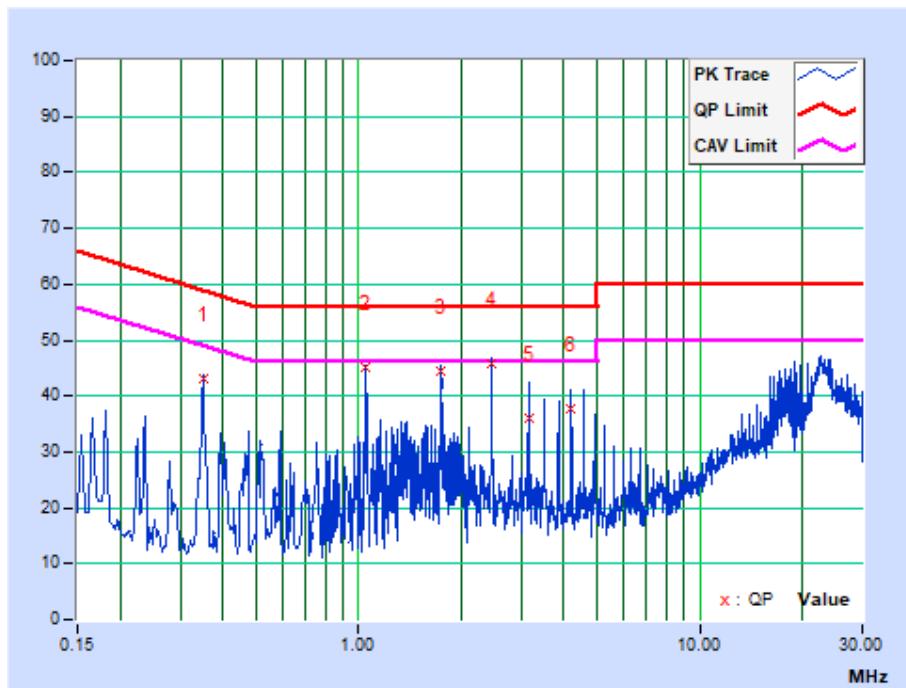
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PHASE	Neutral	6dB BANDWIDTH	9kHz
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No.	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.34941	9.93	33.10	27.76	43.03	37.69	58.98	48.98	-15.95	-11.29
2	1.05321	10.05	34.90	29.96	44.95	40.01	56.00	46.00	-11.05	-5.99
3	1.75310	10.10	34.40	28.19	44.50	38.29	56.00	46.00	-11.50	-7.71
4	<b>2.45690</b>	<b>10.12</b>	<b>35.58</b>	<b>30.19</b>	<b>45.70</b>	<b>40.31</b>	<b>56.00</b>	<b>46.00</b>	<b>-10.30</b>	<b>-5.69</b>
5	3.15288	10.14	25.90	14.88	36.04	25.02	56.00	46.00	-19.96	-20.98
6	4.21242	10.19	27.39	19.89	37.58	30.08	56.00	46.00	-18.42	-15.92

**REMARKS:** The emission levels of other frequencies were very low against the limit.





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## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 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 (dB<sub>uV</sub>/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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#### 4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSV40-N	101817	July 04, 22
Bilog Antenna	SCHWARZBECK	VULB 9168	01281	July 30, 22
Pre-Amplifier	Agilent	8447D	2944A10488	Aug.08, 22
3m Semi-anechoic Chamber	ETS-Lindgren	9m*6m*6m	D3040003DG-1	July 30, 24
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAR-NMBNCM-2000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAR-BNCMSMM-500	2100033742	Aug.08, 22
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00240041	July 22, 22
Horn Antenna	SCHWARZBECK	BBHA 9170	01024	Dec. 25, 22
Pre-Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV 9718C	00142	Aug. 06, 22
Pre-Amplifier (18GHz-40GHz)	Rohde&Schwarz	SCU40	100437	Nov. 16, 22
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-2000	2100033742	Aug.08, 22
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-800	2100033742	Aug.08, 22

#### NOTES:

1. The test was performed in 966 Chamber-3 (Baodun).
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 749762.



#### 4.2.3 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 1m 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.

#### 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 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for 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.



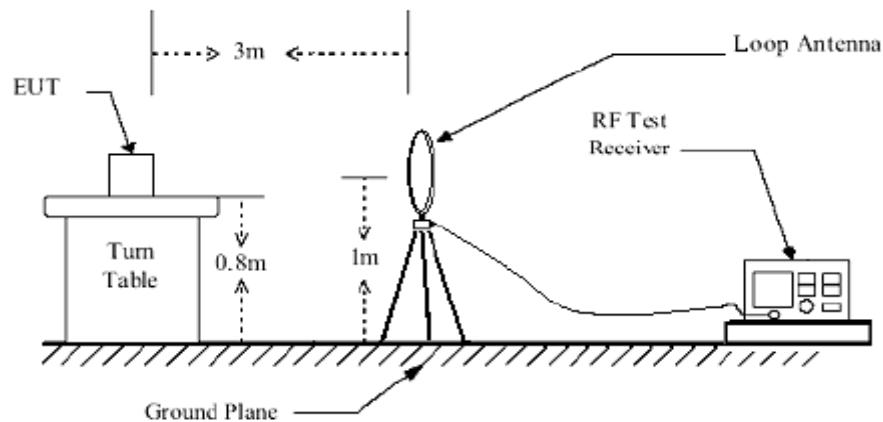
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#### 4.2.4 DEVIATION FROM TEST STANDARD

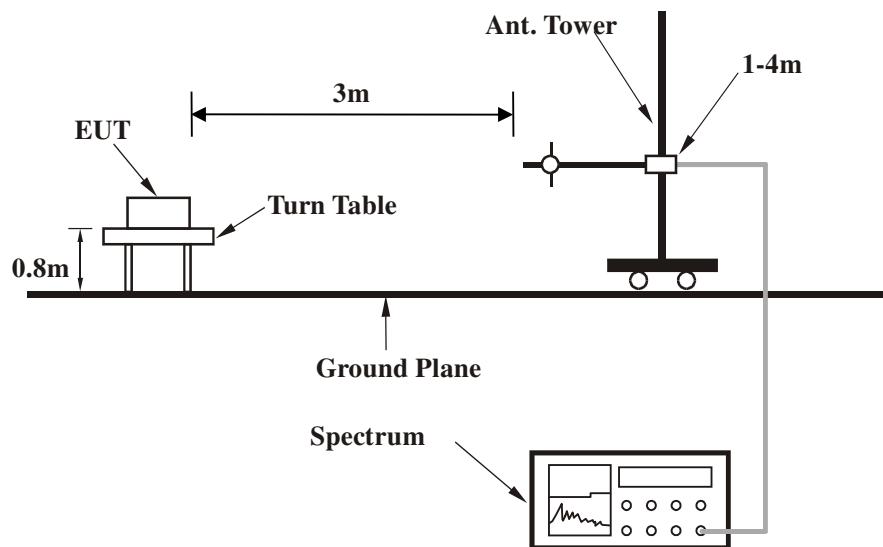
No deviation.

#### 4.2.5 TEST SETUP

##### Below 30MHz test setup



##### Below 1GHz test setup



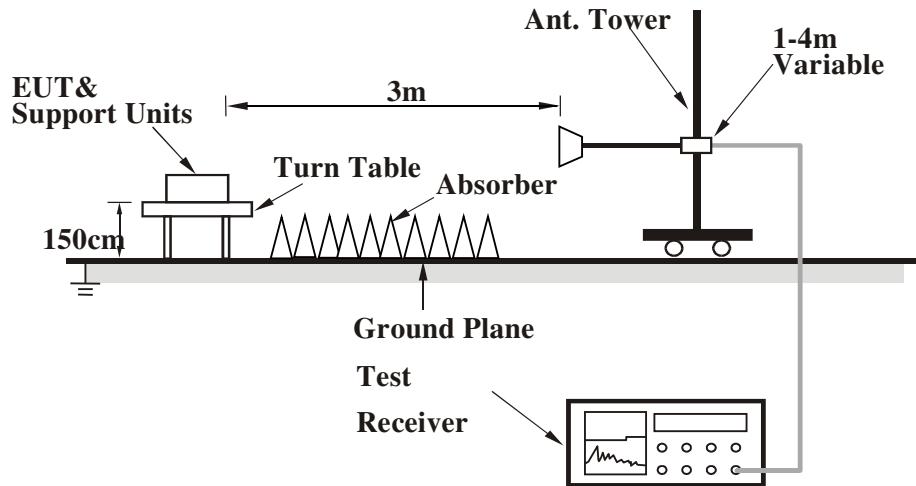
**Note:** For the actual test configuration, please refer to the attached file (Test Setup Photo).

Bureau Veritas Shenzhen Co., Ltd.  
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### Above 1GHz test setup



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

#### 4.2.6 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.



Test Report No.: RF2206WDG0023-2

#### 4.2.7 TEST RESULTS

##### BELOW 1GHz WORST-CASE DATA:

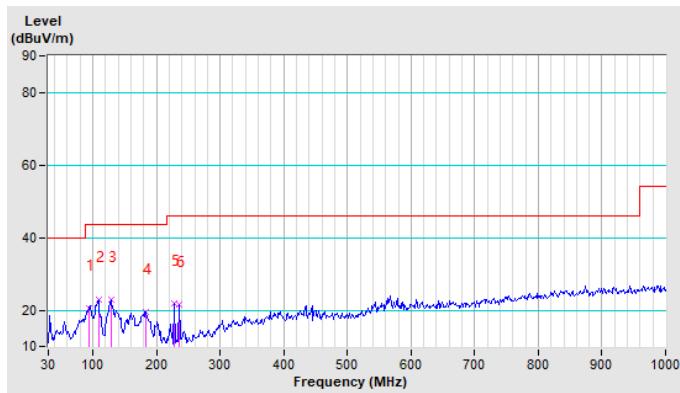
###### BT-LE (GFSK)

CHANNEL	TX Channel 39	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	94.67	20.47 QP	43.50	-23.03	1.00 H	163	39.29	-18.82
2	108.72	22.96 QP	43.50	-20.54	1.00 H	183	40.66	-17.70
3	128.41	22.97 QP	43.50	-20.53	1.00 H	122	38.55	-15.58
4	183.23	19.46 QP	43.50	-24.04	1.00 H	153	34.58	-15.12
5	228.22	21.82 QP	46.00	-24.18	1.00 H	264	36.92	-15.10
6	235.25	21.62 QP	46.00	-24.38	1.00 H	263	36.40	-14.78

###### 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





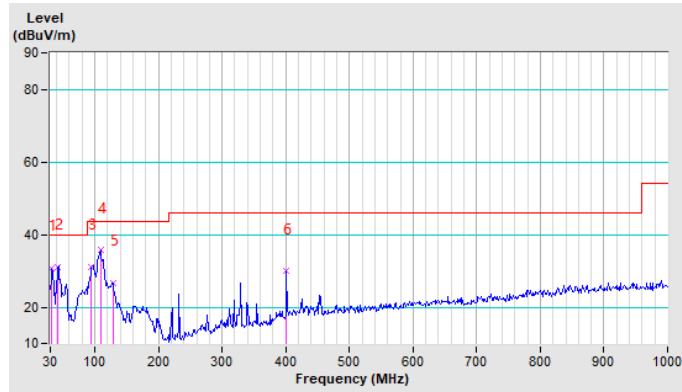
Test Report No.: RF2206WDG0023-2

CHANNEL	TX Channel 39	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	32.81	30.68 QP	40.00	-9.32	1.00 V	7	46.74	-16.06
2	41.25	31.15 QP	40.00	-8.85	1.00 V	347	45.92	-14.77
3	94.67	31.17 QP	43.50	-12.33	1.00 V	114	49.99	-18.82
4	108.72	35.66 QP	43.50	-7.84	1.00 V	181	53.36	-17.70
5	128.41	26.78 QP	43.50	-16.72	1.00 V	247	42.36	-15.58
6	401.13	29.88 QP	46.00	-16.12	1.00 V	104	40.56	-10.68

**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





Test Report No.: RF2206WDG0023-2

**ABOVE 1GHz TEST DATA:**

**BT-LE GFSK (1Mbps)**

<b>CHANNEL</b>	TX Channel 0	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	47.05 PK	74.00	-26.95	1.00 H	36	46.51	0.54
2	2390.00	36.48 AV	54.00	-17.52	1.00 H	36	35.94	0.54
3	*2402.00	94.76 PK			1.00 H	36	94.18	0.58
4	*2402.00	93.97 AV			1.00 H	36	93.39	0.58
5	4804.00	46.25 PK	74.00	-27.75	2.00 H	177	40.94	5.31
6	4804.00	35.47 AV	54.00	-18.53	2.00 H	177	30.16	5.31
7	#7206.00	49.82 PK	74.00	-24.18	1.00 H	104	40.12	9.70
8	#7206.00	37.11 AV	54.00	-16.89	1.00 H	104	27.41	9.70
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	45.16 PK	74.00	-28.84	1.08 V	352	44.62	0.54
2	2390.00	35.76 AV	54.00	-18.24	1.08 V	352	35.22	0.54
3	*2402.00	93.18 PK			1.08 V	352	92.60	0.58
4	*2402.00	92.77 AV			1.08 V	352	92.19	0.58
5	4804.00	45.37 PK	74.00	-28.63	2.00 V	95	40.06	5.31
6	4804.00	34.26 AV	54.00	-19.74	2.00 V	95	28.95	5.31
7	#7206.00	48.19 PK	74.00	-25.81	1.00 V	258	38.49	9.70
8	#7206.00	36.22 AV	54.00	-17.78	1.00 V	258	26.52	9.70

**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. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0023-2

CHANNEL	TX Channel 19	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	95.37 PK			1.00 H	14	94.65	0.72
2	*2440.00	94.26 AV			1.00 H	14	93.54	0.72
3	4880.00	47.44 PK	74.00	-26.56	2.00 H	135	42.05	5.39
4	4880.00	35.81 AV	54.00	-18.19	2.00 H	135	30.42	5.39
5	7320.00	50.43 PK	74.00	-23.57	1.00 H	145	40.65	9.78
6	7320.00	38.25 AV	54.00	-15.75	1.00 H	145	28.47	9.78

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	93.49 PK			1.33 V	205	92.77	0.72
2	*2440.00	92.71 AV			1.33 V	205	91.99	0.72
3	4880.00	46.22 PK	74.00	-27.78	1.08 V	94	40.83	5.39
4	4880.00	34.50 AV	54.00	-19.50	1.08 V	94	29.11	5.39
5	7320.00	49.81 PK	74.00	-24.19	2.00 V	105	40.03	9.78
6	7320.00	37.43 AV	54.00	-16.57	2.00 V	105	27.65	9.78

**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. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0023-2

BUREAU  
VERITAS

<b>CHANNEL</b>	TX Channel 39	<b>DETECTOR FUNCTION</b>		Peak (PK)
<b>FREQUENCY RANGE</b>				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)	CORRECTIO N FACTOR (dB/m)
1	*2480.00	97.04 PK			1.51 H	201	96.17	0.87
2	*2480.00	96.26 AV			1.51 H	201	95.39	0.87
3	2483.50	57.06 PK	74.00	-16.94	1.51 H	201	56.17	0.89
4	2483.50	48.12 AV	54.00	-5.88	1.51 H	201	47.23	0.89
5	4960.00	48.39 PK	74.00	-25.61	1.31 H	205	42.90	5.49
6	4960.00	36.54 AV	54.00	-17.46	1.31 H	205	31.05	5.49
7	7440.00	51.43 PK	74.00	-22.57	2.00 H	179	41.57	9.86
8	7440.00	38.26 AV	54.00	-15.74	2.00 H	179	28.40	9.86

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)	CORRECTIO N FACTOR (dB/m)
1	*2480.00	94.25 PK			1.64 V	318	93.38	0.87
2	*2480.00	93.22 AV			1.64 V	318	92.35	0.87
3	2483.50	56.25 PK	74.00	-17.75	1.64 V	318	55.36	0.89
4	2483.50	47.34 AV	54.00	-6.66	1.64 V	318	46.45	0.89
5	4960.00	47.14 PK	74.00	-26.86	2.00 V	133	41.65	5.49
6	4960.00	35.17 AV	54.00	-18.83	2.00 V	133	29.68	5.49
7	7440.00	50.33 PK	74.00	-23.67	1.00 V	352	40.47	9.86
8	7440.00	37.24 AV	54.00	-16.76	1.00 V	352	27.38	9.86

**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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0023-2

**BT-LE GFSK (2Mbps)**

<b>CHANNEL</b>	TX Channel 0	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	46.92 PK	74.00	-27.08	1.09 H	311	46.38	0.54
2	2390.00	36.34 AV	54.00	-17.66	1.09 H	311	35.80	0.54
3	*2402.00	94.54 PK			1.09 H	311	93.96	0.58
4	*2402.00	93.81 AV			1.09 H	311	93.23	0.58
5	4804.00	46.41 PK	74.00	-27.59	1.50 H	107	41.10	5.31
6	4804.00	35.39 AV	54.00	-18.61	1.50 H	107	30.08	5.31
7	#7206.00	49.25 PK	74.00	-24.75	1.00 H	143	39.55	9.70
8	#7206.00	37.04 AV	54.00	-16.96	1.00 H	143	27.34	9.70

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	45.22 PK	74.00	-28.78	1.57 V	305	44.68	0.54
2	2390.00	35.47 AV	54.00	-18.53	1.57 V	305	34.93	0.54
3	*2402.00	93.59 PK			1.57 V	305	93.01	0.58
4	*2402.00	91.74 AV			1.57 V	305	91.16	0.58
5	4804.00	45.19 PK	74.00	-28.81	1.06 V	98	39.88	5.31
6	4804.00	35.44 AV	54.00	-18.56	1.06 V	98	30.13	5.31
7	#7206.00	48.26 PK	74.00	-25.74	1.00 V	49	38.56	9.70
8	#7206.00	36.49 AV	54.00	-17.51	1.00 V	49	26.79	9.70

**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. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0023-2

CHANNEL	TX Channel 19	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	95.27 PK			2.00 H	108	94.55	0.72
2	*2440.00	94.36 AV			2.00 H	108	93.64	0.72
3	4880.00	47.52 PK	74.00	-26.48	1.18 H	315	42.13	5.39
4	4880.00	36.04 AV	54.00	-17.96	1.18 H	315	30.65	5.39
5	7320.00	50.49 PK	74.00	-23.51	1.00 H	57	40.71	9.78
6	7320.00	38.22 AV	54.00	-15.78	1.00 H	57	28.44	9.78

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	93.19 PK			1.00 V	79	92.47	0.72
2	*2440.00	92.54 AV			1.00 V	79	91.82	0.72
3	4880.00	46.22 PK	74.00	-27.78	1.00 V	49	40.83	5.39
4	4880.00	35.19 AV	54.00	-18.81	1.00 V	49	29.80	5.39
5	7320.00	49.34 PK	74.00	-24.66	1.00 V	233	39.56	9.78
6	7320.00	37.16 AV	54.00	-16.84	1.00 V	233	27.38	9.78

**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. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0023-2

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	*2480.00	97.25 PK			1.54 H	312	96.38	0.87
2	*2480.00	96.63 AV			1.54 H	312	95.76	0.87
3	2483.50	56.84 PK	74.00	-17.16	1.54 H	312	55.95	0.89
4	2483.50	47.92 AV	54.00	-6.08	1.54 H	312	47.03	0.89
5	4960.00	48.55 PK	74.00	-25.45	1.00 H	109	43.06	5.49
6	4960.00	36.24 AV	54.00	-17.76	1.00 H	109	30.75	5.49
7	7440.00	51.33 PK	74.00	-22.67	1.00 H	27	41.47	9.86
8	7440.00	37.49 AV	54.00	-16.51	1.00 H	27	27.63	9.86

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	94.37 PK			2.00 V	79	93.50	0.87
2	*2480.00	93.52 AV			2.00 V	79	92.65	0.87
3	2483.50	55.19 PK	74.00	-18.81	2.00 V	79	54.30	0.89
4	2483.50	46.28 AV	54.00	-7.72	2.00 V	79	45.39	0.89
5	4960.00	47.43 PK	74.00	-26.57	1.08 V	335	41.94	5.49
6	4960.00	35.17 AV	54.00	-18.83	1.08 V	335	29.68	5.49
7	7440.00	50.46 PK	74.00	-23.54	1.00 V	135	40.60	9.86
8	7440.00	36.25 AV	54.00	-17.75	1.00 V	135	26.39	9.86

**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. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF2206WDG0023-2

## 4.3 6dB BANDWIDTH MEASUREMENT

### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	101601	Nov. 21, 22
MXA signal analyzer	Agilent	N9020A	MY49100060	Apr. 18, 23
Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Jan. 16, 23
Frequency Analyzer	Keysight	N9010B	MY60240432	Nov. 25, 22
Progamble Temperature&Humidity Chamber	Hongjin	HYC-TH-225DH	DG-180746	Feb. 16, 23
DC Source	Agilent	E3640A	MY40004013	Feb. 23, 23
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 (Baodun).
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



Test Report No.: RF2206WDG0023-2

#### 4.3.3 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq$  3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
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.

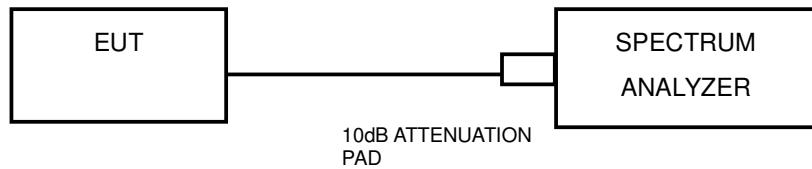
#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation.



Test Report No.: RF2206WDG0023-2

#### 4.3.5 TEST SETUP



#### 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.



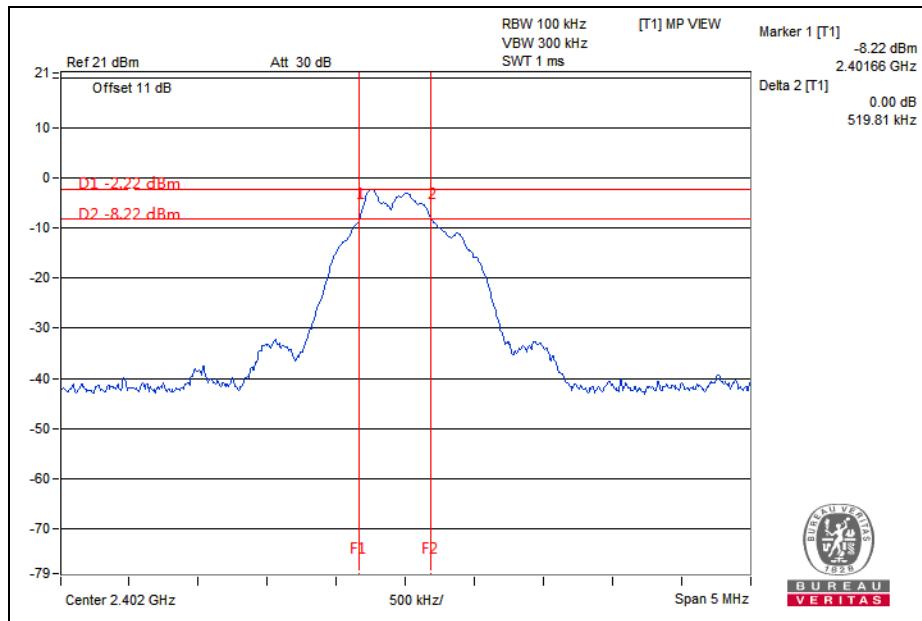
Test Report No.: RF2206WDG0023-2

#### 4.3.7 TEST RESULTS

##### BT-LE GFSK (1Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.52	0.5	PASS
19	2440	0.52	0.5	PASS
39	2480	0.52	0.5	PASS

##### CH0

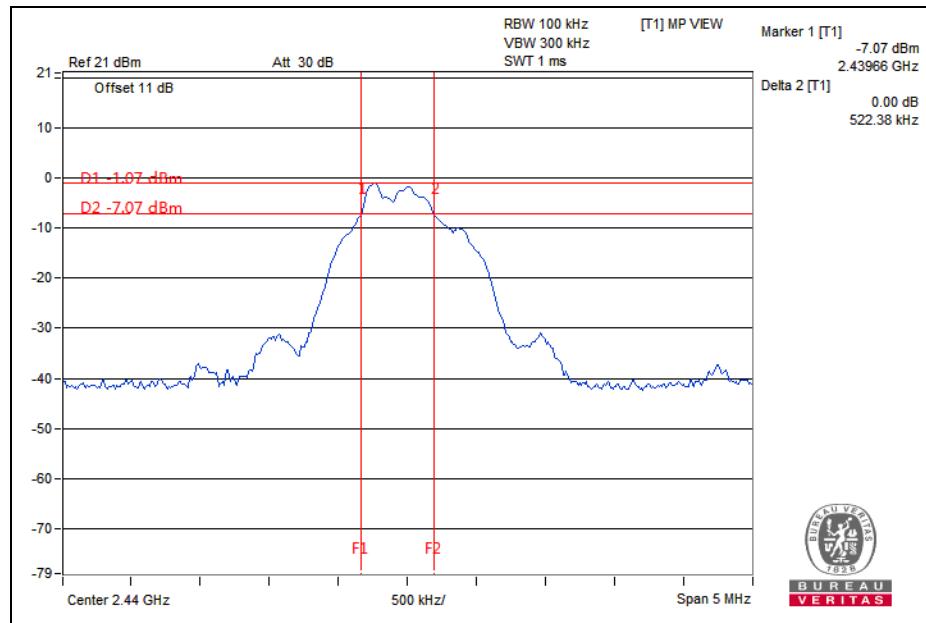




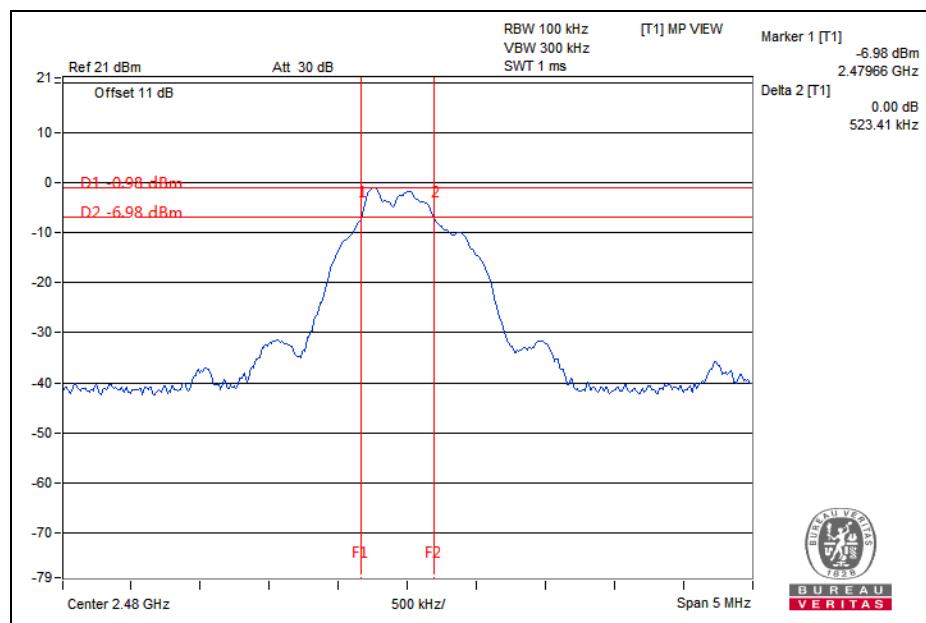
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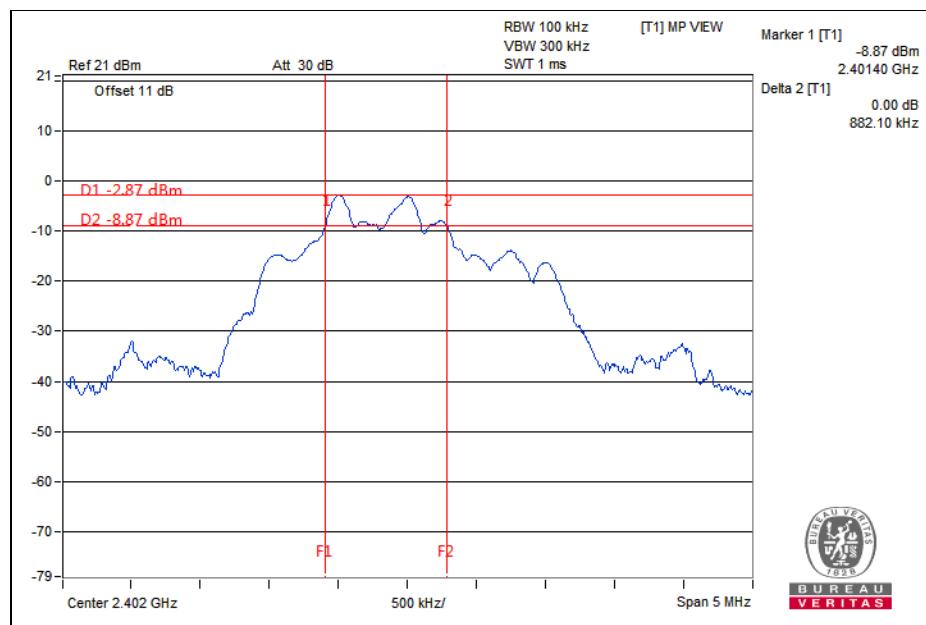


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BT-LE GFSK (2Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.88	0.5	PASS
19	2440	0.89	0.5	PASS
39	2480	0.88	0.5	PASS

CH0



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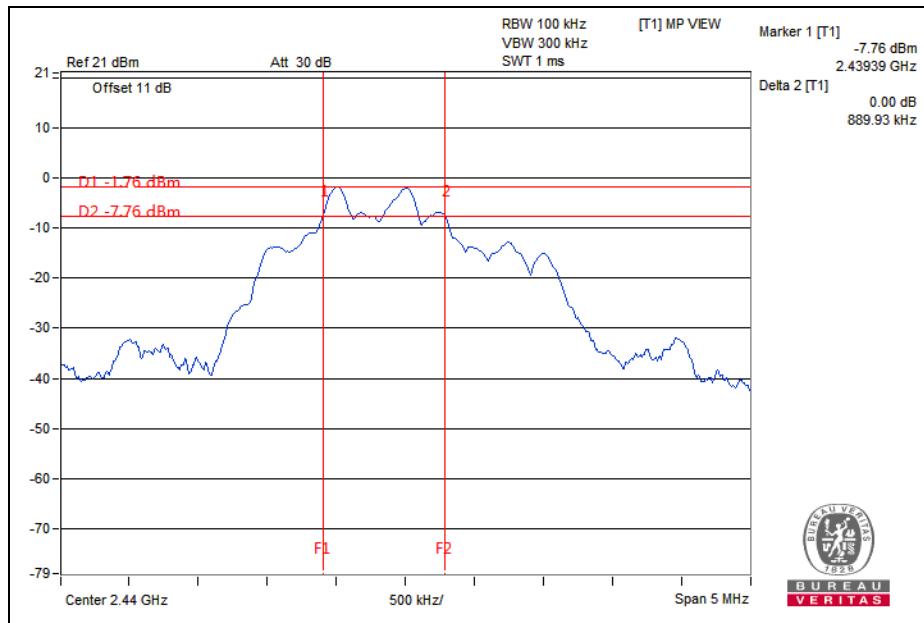
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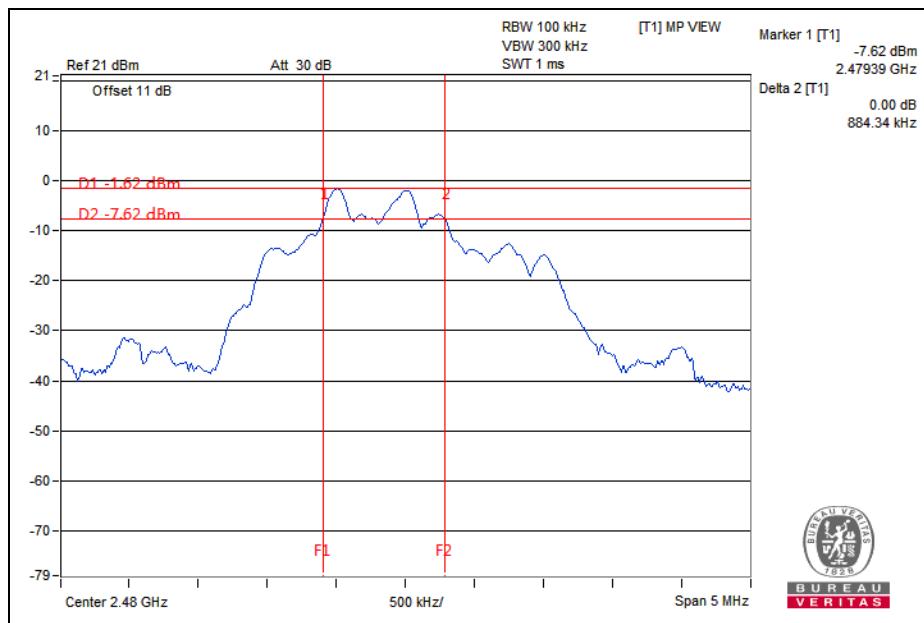


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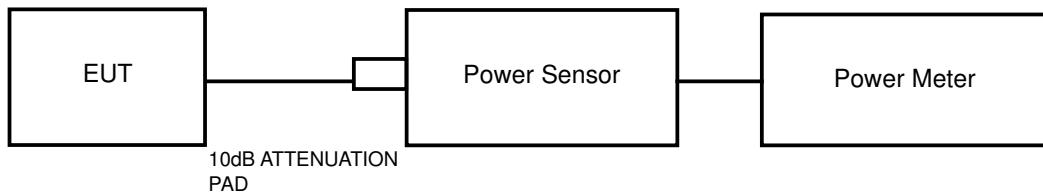


## 4.4 CONDUCTED OUTPUT POWER

### 4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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

### 4.4.2 TEST SETUP



### 4.4.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.4.4 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.

### 4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

### 4.4.6 EUT OPERATING CONDITIONS

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



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#### 4.4.7 TEST RESULTS

##### 4.4.7.1 MAXIMUM PEAK OUTPUT POWER

###### BT-LE GFSK (1Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	2402	-1.12	0.7727	1	PASS
19	2440	-0.31	0.9311	1	PASS
39	2480	-0.16	0.9638	1	PASS

###### BT-LE GFSK (2Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	2402	-1.77	0.6653	1	PASS
19	2440	-0.83	0.8260	1	PASS
39	2480	-1.31	0.7396	1	PASS



#### 4.4.7.2 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.

##### BT-LE GFSK (1Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
0	2402	-4.81
19	2440	-4.03
39	<b>2480</b>	<b>-3.59</b>

##### BT-LE GFSK (2Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
0	2402	-6.46
19	<b>2440</b>	<b>-5.41</b>
39	2480	-5.91



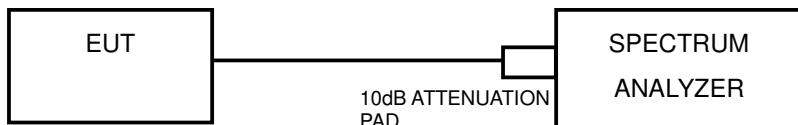
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## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

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

### 4.5.2 TEST SETUP



### 4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.5.4 TEST PROCEDURE

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW  $\geq$  3 x RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. 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.



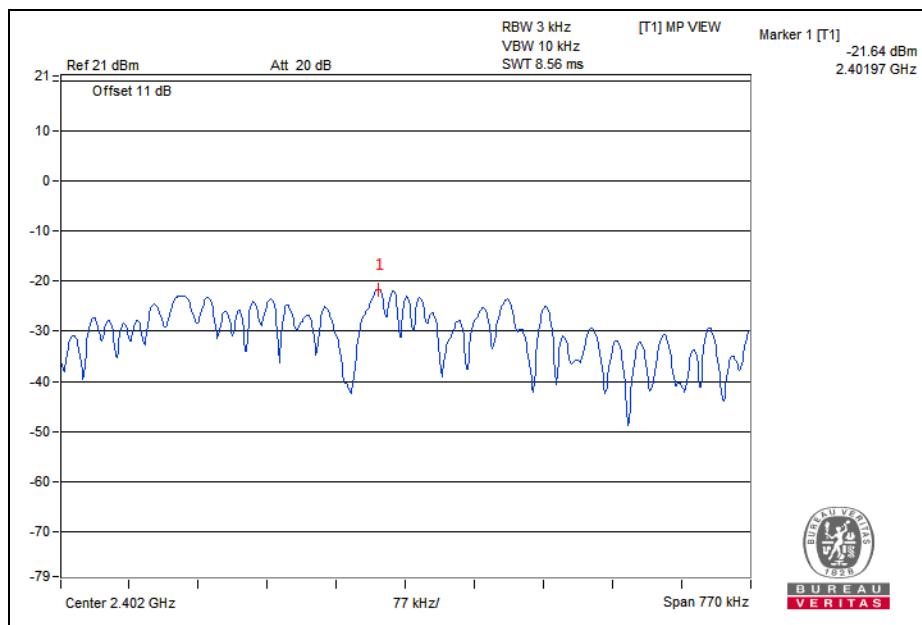
Test Report No.: RF2206WDG0023-2

#### 4.5.7 TEST RESULTS

##### BT-LE GFSK (1Mbps)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-21.64	8	PASS
19	2440	-20.48	8	PASS
39	2480	-20.52	8	PASS

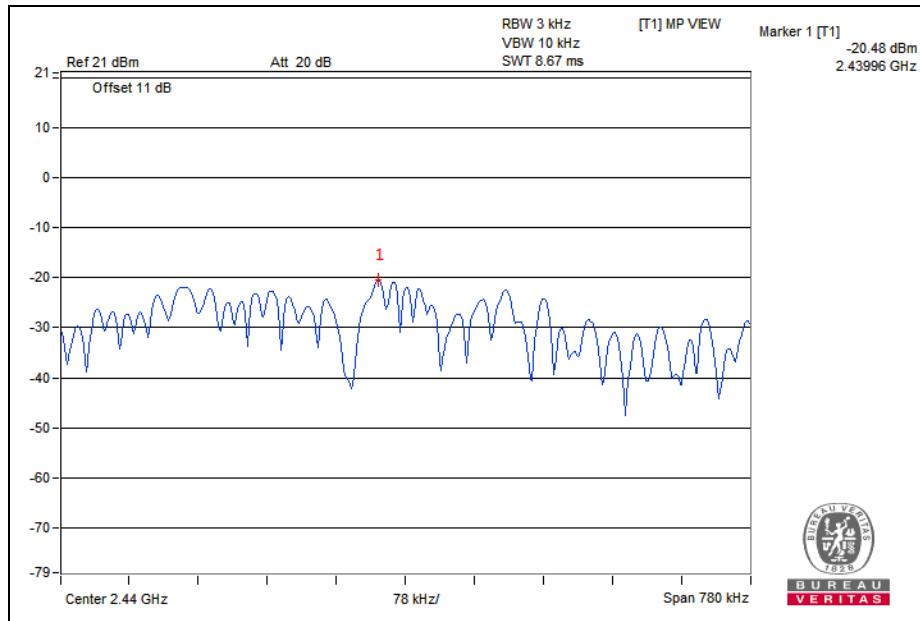
CH0



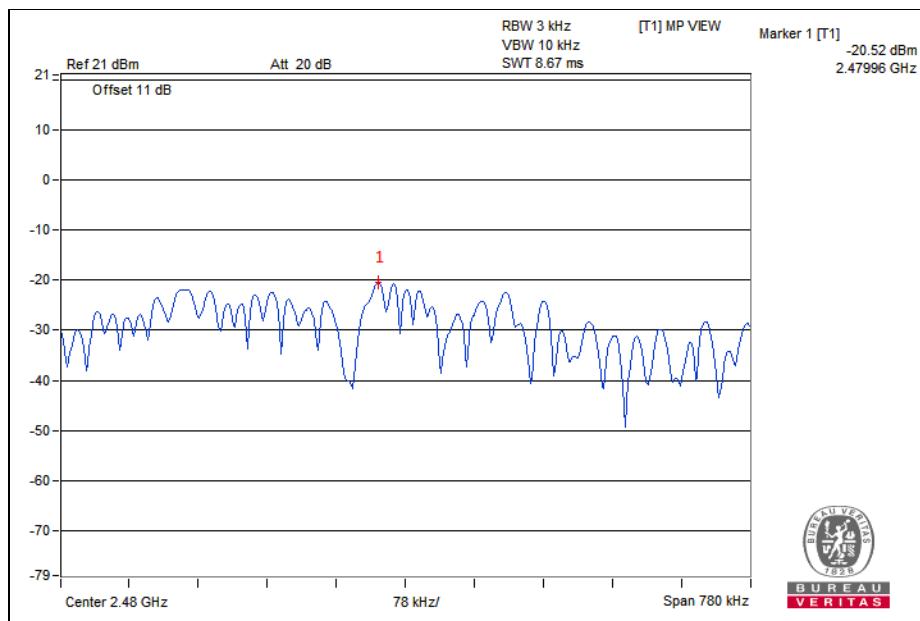


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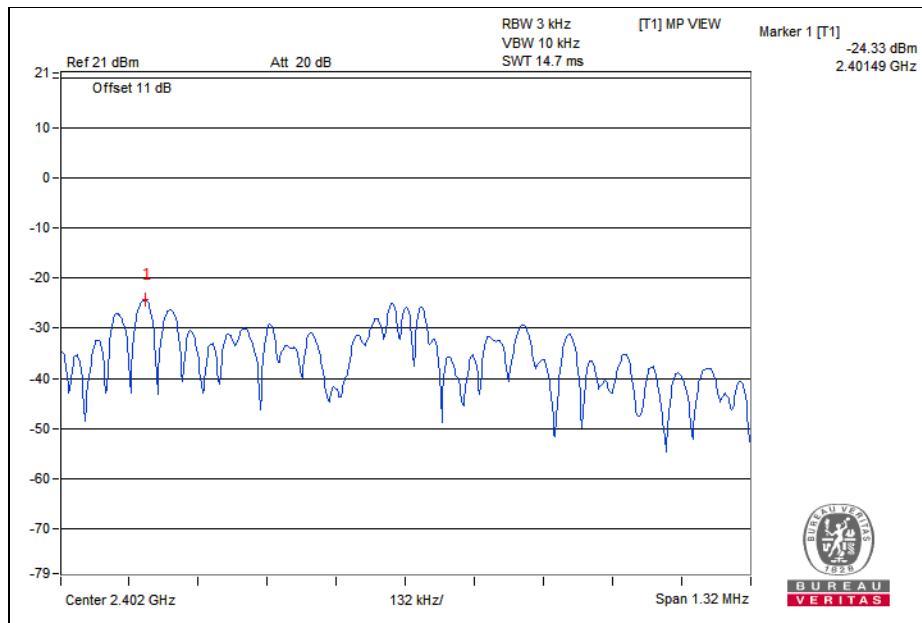


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**BT-LE GFSK (2Mbps)**

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-24.33	8	PASS
19	2440	-23.18	8	PASS
39	2480	-23.10	8	PASS

**CH0**



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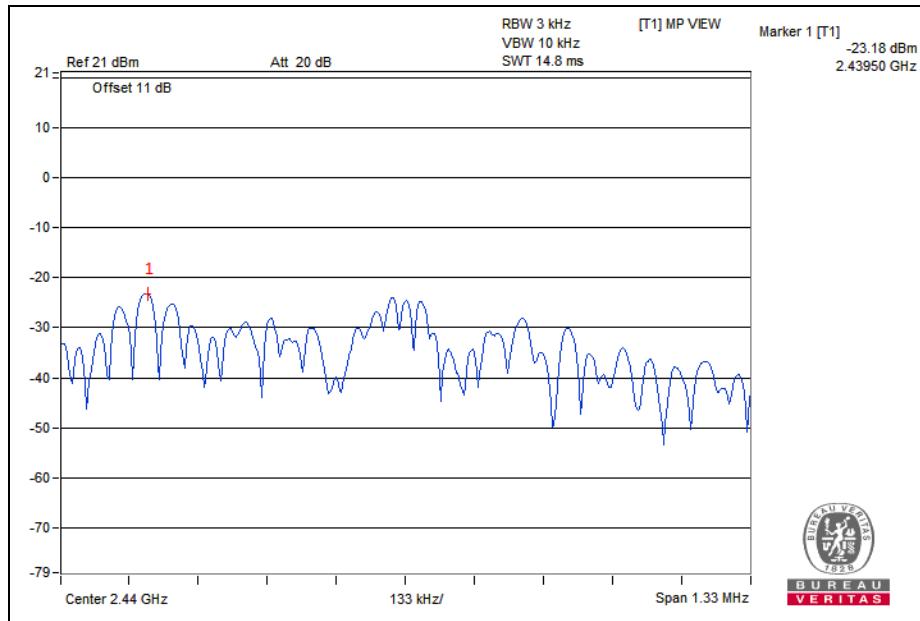
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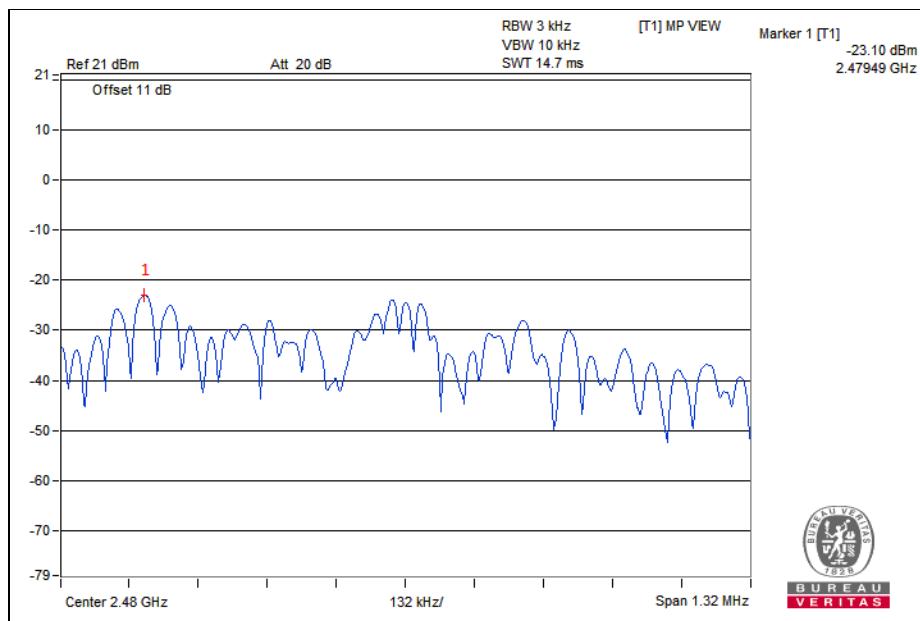


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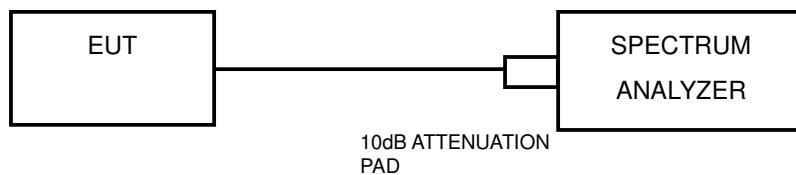
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## 4.6 OUT OF BAND EMISSION MEASUREMENT

### 4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

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

### 4.6.2 TEST SETUP



### 4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.6.4 TEST PROCEDURE

#### MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



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## MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW  $\geq$  300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

### 4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

### 4.6.6 EUT OPERATING CONDITION

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



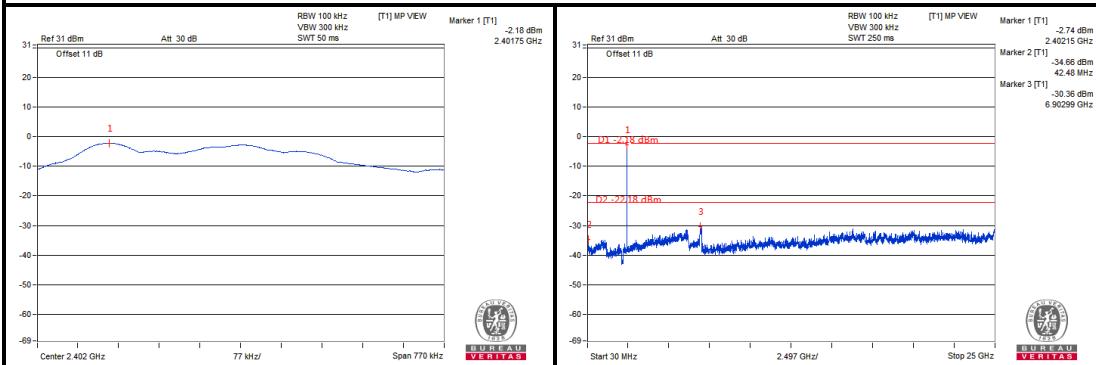
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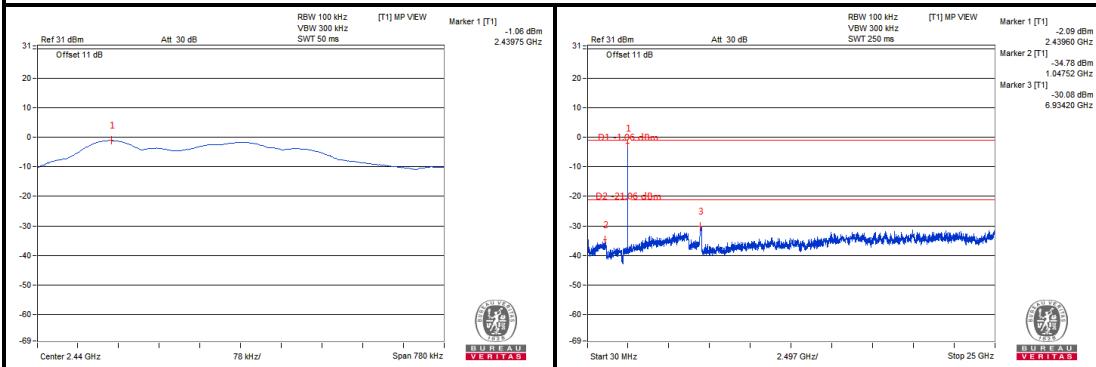
#### 4.6.7 TEST RESULTS

##### BT-LE GFSK (1Mbps)

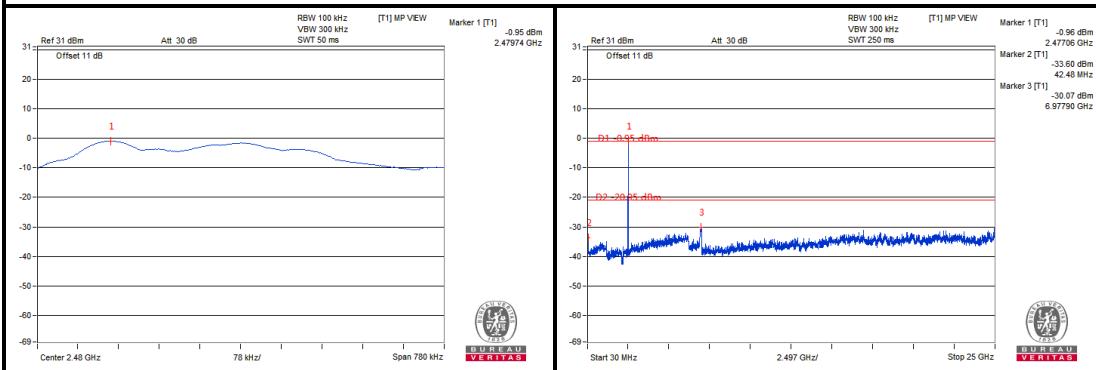
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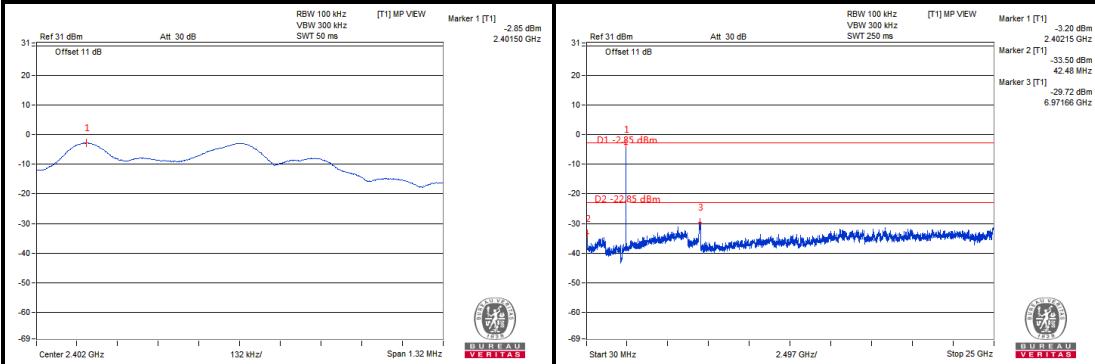


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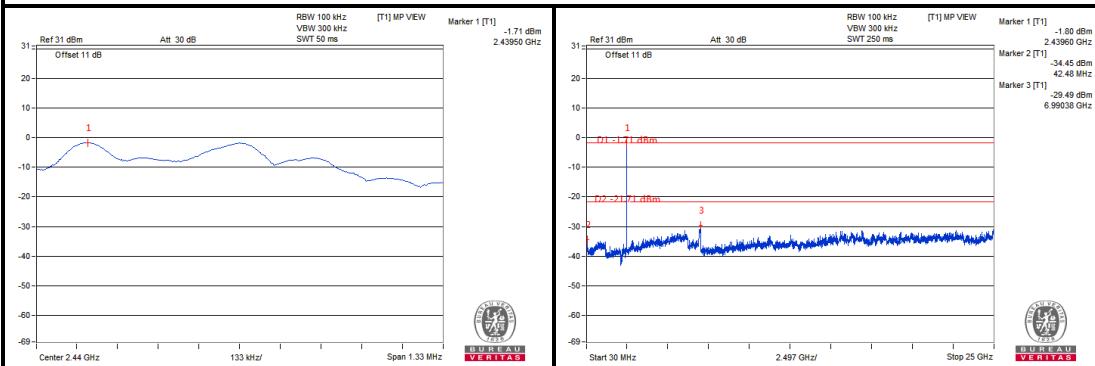
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### BT-LE GFSK (2Mbps)

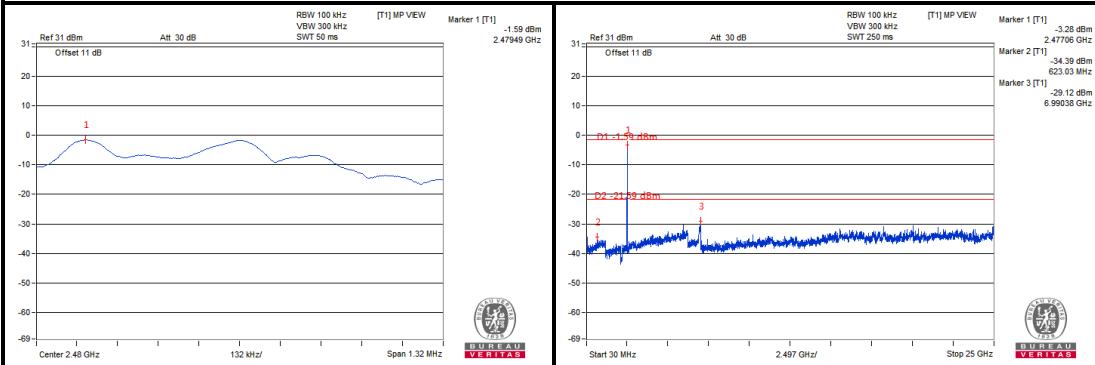
#### CH 0



#### CH 19



#### CH 39



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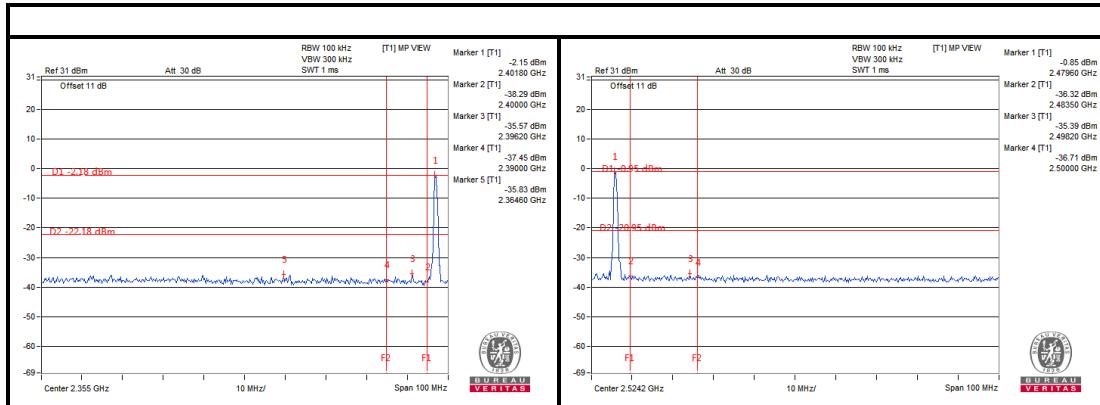
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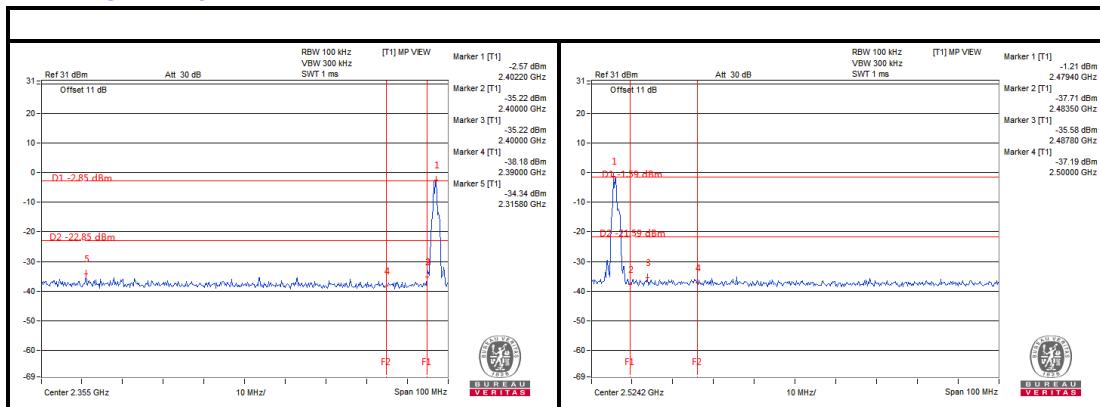
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### Band Edge (1Mbps):



### Band Edge (2Mbps):



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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---