Certificate # 2951.01

TEST REPORT

Applicant	Ruijin Trefan Technology Co., Ltd
Address	North Jinyuan Road, Economic and Development Zone, Ruijin, Jiangxi Province

Manufacturer or Supplier	Ruijin Trefan Technology Co., Ltd
Address	North Jinyuan Road, Economic and Development Zone, Ruijin, Jiangxi Province
Product	Girls Headphones Rhinestone with Accessories
Brand Name	Dream Studio
Model	1017371
Additional Model & Model Difference	101XXXX (where XXX can be digits 0000-9999 which represent different customers), See items 3.1
Date of tests	Jun. 15, 2023 ~ Jun. 26, 2023

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 Loren Luo Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
Loren	Date: Aug. 02, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2306WDG0153-1	Original release	Aug. 02, 2023

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	See note 5 on page 6
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
Radiated emissions	9KHz ~ 30MHz	2.72dB
	30MHz ~ 1GMHz	4.24dB
	1GHz ~ 18GHz	4.78dB
	18GHz ~ 40GHz	4.50dB

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	Girls Headphones Rhinestone with Accessories
MODEL NO.	1017371
ADDITIONAL MODEL	101XXXX (where XXX can be digits 0000-9999 which represent different customers)
FCC ID	2BAXWTFH023
NOMINAL VOLTAGE	DC 5V from USB host unit or DC 3.7 V from Li-ion battery
MODULATION TECHNOLOGY	DTS
MODULATION TYPE	BLE-GFSK (1& 2 Mbps)
OPERATING FREQUENCY	2402-2480MHz
PEAK OUTPUT POWER（Max)	0.4055mW
ANTENNA TYPE	PCB Antenna, -0.59dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Line: Unshielded, Detachable, 0.8m AUX Line: Unshielded, Detachable, 0.95m

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.: 2306WDG0153) for detailed product photo.
4. Additional models (see above table) are identical with the test model 1017371 except the color of the appearance, product name and model number for trading purpose.
5. When the EUT in charging mode that RF function cann't working.

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	**2402**	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	**2440**	29	2460	39	**2480**

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	√	√	-	√	Powered By Fully Battery with BT function

Where **RE<1G:** Radiated Emission below 1GHz **RE≥1G:** Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

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

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

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25deg. C, 50%RH	DC 3.7V from battery	Ryker
RE≥1G	25deg. C, 50%RH	DC 3.7V from battery	Ryker
PLC	-	-	-
APCM	25deg. C, 60%RH	DC 3.7V from battery	Ryker

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

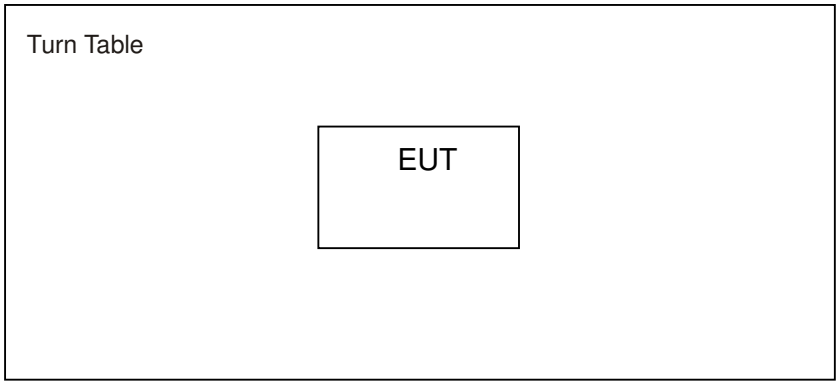
ANSI C63.10-2013

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

3.4 DESCRIPTION OF SUPPORT UNITS

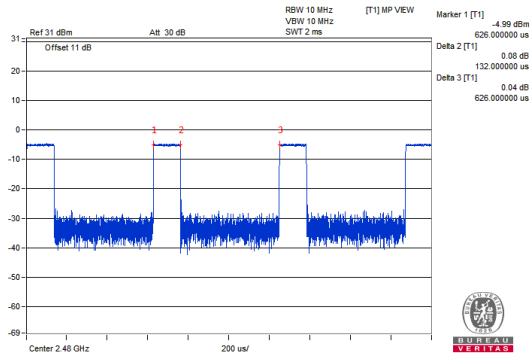
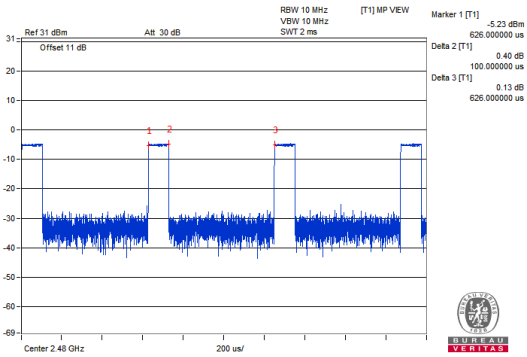
The EUT has been tested as an independent unit without any other necessary accessory or support units.

3.5 DESCRIPTION OF SUPPORT UNITS



3.6 DUTY CYCLE OF TESET SIGNAL

Test Mode	On Time (ms)	Period (ms)	Duty Cycle (%)	1/T Min. VBW (KHz)	VBW Setting
BT-LE(1M)	0.132	0.626	21.086	0.347	500Hz
BT-LE(2M)	0.100	0.626	15.974	0.347	500Hz

BT-LE(1M)	BT-LE(2M)
	

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.
Spectrum Analyzer	Rohde&Schwarz	FSV3044	101326	July 20, 23
EMI Test Receiver	Rohde&Schwarz	ESU8	100372	Apr. 06, 24
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-555	Jan. 08, 24
Pre-Amplifier	Agilent	8447D	2944A10488	Aug. 03, 23
3m Semi-anechoic Chamber	ETS-Lindgren	9m*6m*6m	D3040003DG-1	July 30, 24
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	July. 11, 23
Coaxial RF Cable	Joinfront	JFAR-NMBNCM-2000	2100033742	July. 11, 23
Coaxial RF Cable	Joinfront	JFAR-BNCMSMM-500	2100033742	July. 11, 23
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00240041	May 06, 24
Horn Antenna	SCHWARZBECK	BBHA 9170	01024	Oct. 16, 23
Pre-Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV 9718C	00142	Apr. 05, 24
Pre-Amplifier (18GHz-40GHz)	Rohde&Schwarz	SCU40	100437	Oct. 27, 23
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	July. 11, 23
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-2000	2100033742	July. 11, 23
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-800	2100033742	July. 11, 23

NOTES:

1. The test was performed in 966 Chamber-3.
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.
3. The horn antenna is used only for the measurement of emission frequency above1GHz if tested.
4. The FCC Site Registration No. is 749762.
5. Test site: No. 122, Houjie Avenue West Houjie Town, Dongguan City Guangdong Province, 523960, People's Republic of China.

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. 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:

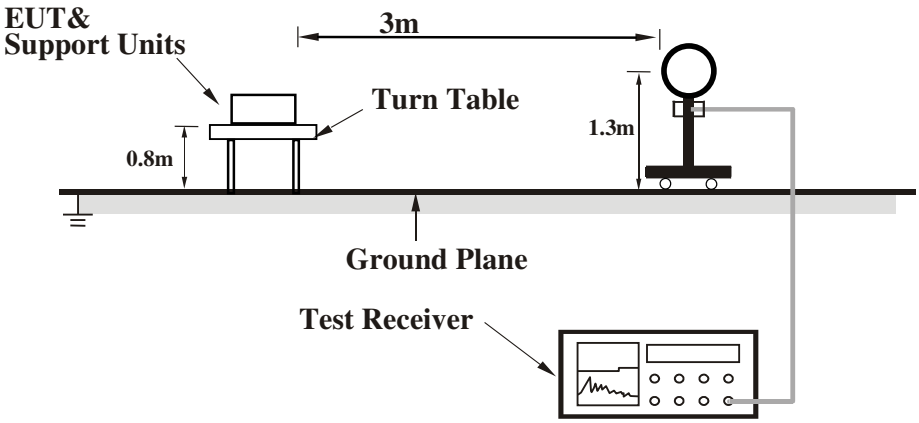
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (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.

4.1.4 DEVIATION FROM TEST STANDARD

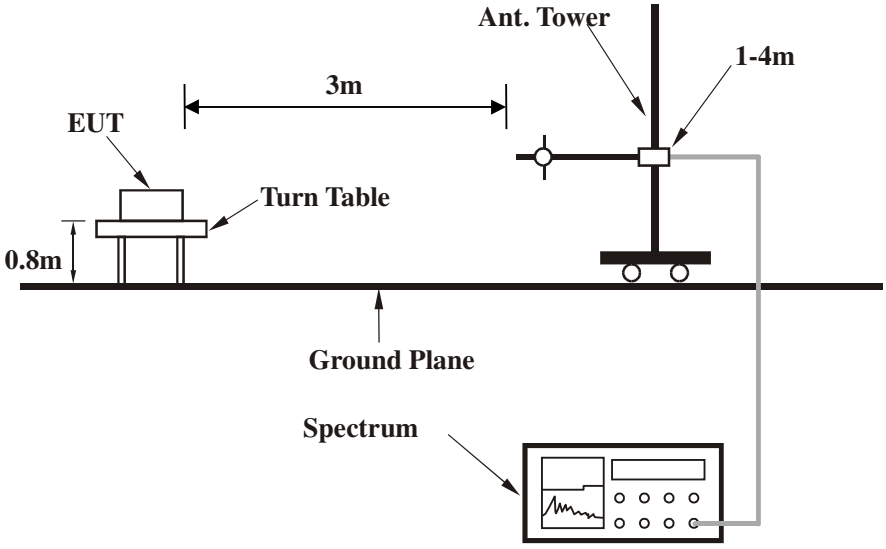
No deviation.

4.1.5 TEST SETUP

Below 30MHz test setup

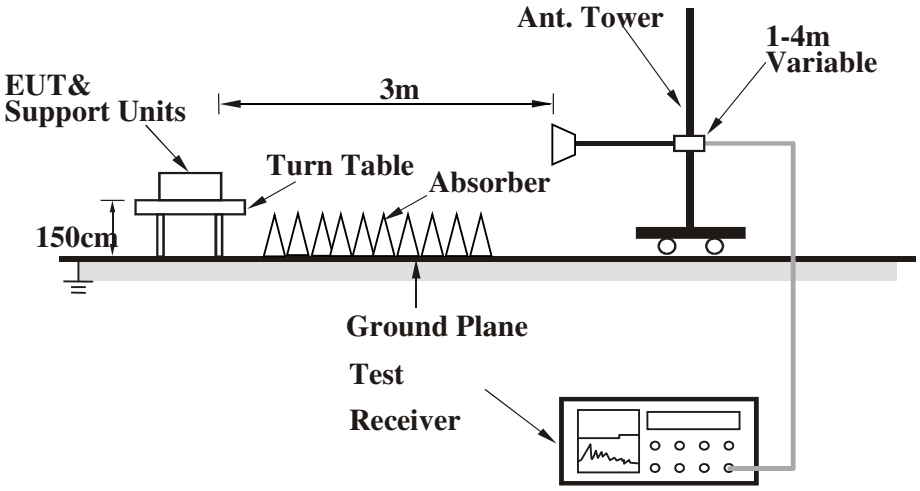


Below 1GHz test setup



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

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

a. Set the EUT under full load condition and placed them on a testing table.

b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.

c. The necessary accessories enable the EUT in full functions.

4.1.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

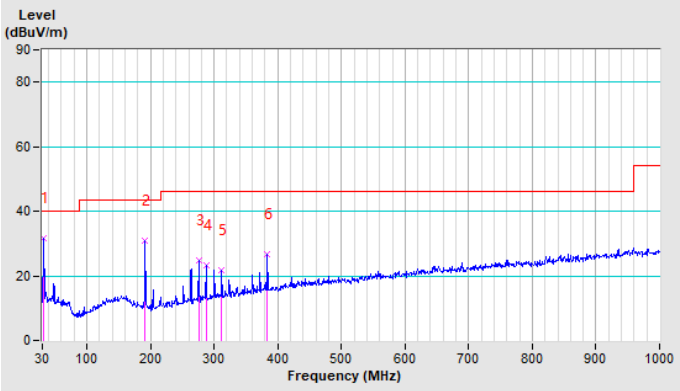
BT-LE (GFSK)

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	**31.94**	**31.77 QP**	**40.00**	**-8.23**	**1.27 H**	**292**	**46.45**	**-14.68**
2	191.02	30.85 QP	43.50	-12.65	1.27 H	292	46.01	-15.16
3	275.41	24.82 QP	46.00	-21.18	2.00 H	215	37.24	-12.42
4	287.05	23.41 QP	46.00	-22.59	2.00 H	215	35.39	-11.98
5	311.30	21.74 QP	46.00	-24.26	2.00 H	232	33.04	-11.30
6	383.08	26.62 QP	46.00	-19.38	2.00 H	232	36.58	-9.96

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

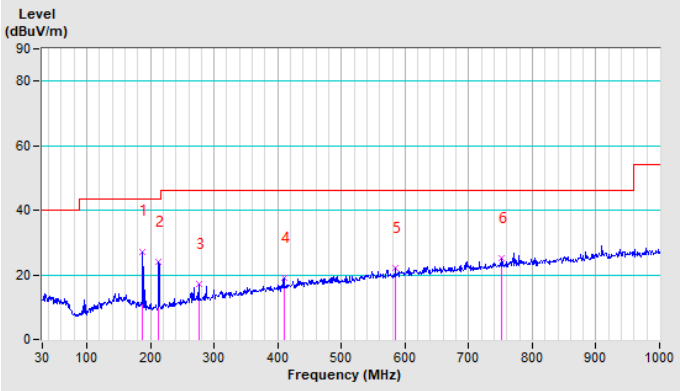


CHANNEL	TX Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

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	187.14	27.24 QP	43.50	-16.26	1.99 V	283	42.25	-15.01
2	212.36	24.07 QP	43.50	-19.43	1.99 V	283	39.01	-14.94
3	275.41	17.06 QP	46.00	-28.94	2.00 V	278	29.48	-12.42
4	410.24	19.08 QP	46.00	-26.92	2.00 V	278	28.44	-9.36
5	584.84	22.26 QP	46.00	-23.74	1.00 V	289	28.24	-5.98
6	751.68	25.21 QP	46.00	-20.79	1.00 V	289	28.08	-2.87

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



ABOVE 1GHz TEST DATA:

BT-LE GFSK (1Mbps)

CHANNEL	TX Channel 0	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	53.68 PK	74.00	-20.32	1.20 H	130	44.79	8.89
2	2390.00	44.92 AV	54.00	-9.08	1.20 H	130	36.03	8.89
3	*2402.00	100.05 PK			1.20 H	130	91.15	8.90
4	*2402.00	99.34 AV			1.20 H	130	90.44	8.90
5	4804.00	57.17 PK	74.00	-16.83	1.00 H	136	45.24	11.93
6	4804.00	50.74 AV	54.00	-3.26	1.00 H	136	38.81	11.93
7	7206.00	60.11 PK	74.00	-13.89	1.00 H	288	43.60	16.51
8	7206.00	49.61 AV	54.00	-4.39	1.00 H	288	33.10	16.51
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	50.89 PK	74.00	-23.11	1.10 V	130	42.00	8.89
2	2390.00	41.65 AV	54.00	-12.35	1.10 V	130	32.76	8.89
3	*2402.00	90.85 PK			1.10 V	130	81.95	8.90
4	*2402.00	89.94 AV			1.10 V	130	81.04	8.90
5	4804.00	55.52 PK	74.00	-18.48	1.00 V	360	43.59	11.93
6	4804.00	47.51 AV	54.00	-6.49	1.00 V	360	35.58	11.93
7	7206.00	60.72 PK	74.00	-13.28	1.00 V	177	44.21	16.51
8	7206.00	49.28 AV	54.00	-4.72	1.00 V	177	32.77	16.51

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.

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	97.26 PK			1.00 H	236	88.32	8.94
2	*2440.00	95.17 AV			1.00 H	236	86.23	8.94
3	4880.00	55.32 PK	74.00	-18.68	1.00 H	255	43.30	12.02
4	4880.00	46.38 AV	54.00	-7.62	1.00 H	255	34.36	12.02
5	7320.00	60.28 PK	74.00	-13.72	1.00 H	156	44.04	16.24
6	7320.00	49.26 AV	54.00	-4.74	1.00 H	156	33.02	16.24
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	92.47 PK			1.00 V	188	83.53	8.94
2	*2440.00	90.35 AV			1.00 V	188	81.41	8.94
3	4880.00	56.21 PK	74.00	-17.79	1.00 V	169	44.19	12.02
4	4880.00	45.23 AV	54.00	-8.77	1.00 V	169	33.21	12.02
5	7320.00	60.36 PK	74.00	-13.64	1.00 V	174	44.12	16.24
6	7320.00	47.21 AV	54.00	-6.79	1.00 V	174	30.97	16.24

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.

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	97.24 PK			1.00 H	166	88.26	8.98
2	*2480.00	95.84 AV			1.00 H	166	86.86	8.98
3	2483.50	54.26 PK	74.00	-19.74	1.00 H	166	45.28	8.98
4	2483.50	40.23 AV	54.00	-13.77	1.00 H	166	31.25	8.98
5	4960.00	56.76 PK	74.00	-17.24	1.00 H	236	44.63	12.13
6	4960.00	40.53 AV	54.00	-13.47	1.00 H	236	28.40	12.13
7	7440.00	60.14 PK	74.00	-13.86	1.00 H	248	44.19	15.95
8	7440.00	46.28 AV	54.00	-7.72	1.00 H	248	30.33	15.95
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	89.26 PK			1.00 V	110	80.28	8.98
2	*2480.00	87.19 AV			1.00 V	110	78.21	8.98
3	2483.50	54.21 PK	74.00	-19.79	1.00 V	110	45.23	8.98
4	2483.50	40.99 AV	54.00	-13.01	1.00 V	110	32.01	8.98
5	4960.00	56.27 PK	74.00	-17.73	1.00 V	245	44.14	12.13
6	4960.00	46.28 AV	54.00	-7.72	1.00 V	245	34.15	12.13
7	7440.00	60.84 PK	74.00	-13.16	1.00 V	136	44.89	15.95
8	7440.00	48.22 AV	54.00	-5.78	1.00 V	136	32.27	15.95

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.

BT-LE GFSK (2Mbps)

CHANNEL	TX Channel 0	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

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	52.74 PK	74.00	-21.26	1.20 H	130	43.85	8.89
2	2390.00	40.99 AV	54.00	-13.01	1.20 H	130	32.10	8.89
3	*2402.00	99.47 PK			1.20 H	130	90.57	8.90
4	*2402.00	97.63 AV			1.20 H	130	88.73	8.90
5	4804.00	56.82 PK	74.00	-17.18	1.00 H	248	44.89	11.93
6	4804.00	47.23 AV	54.00	-6.77	1.00 H	248	35.30	11.93
7	7206.00	61.58 PK	74.00	-12.42	1.00 H	147	45.07	16.51
8	7206.00	50.14 AV	54.00	-3.86	1.00 H	147	33.63	16.51
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	50.22 PK	74.00	-23.78	1.00 V	158	41.33	8.89
2	2390.00	42.87 AV	54.00	-11.13	1.00 V	158	33.98	8.89
3	*2402.00	94.36 PK			1.00 V	158	85.46	8.90
4	*2402.00	92.14 AV			1.00 V	158	83.24	8.90
5	4804.00	54.28 PK	74.00	-19.72	1.00 V	187	42.35	11.93
6	4804.00	44.26 AV	54.00	-9.74	1.00 V	187	32.33	11.93
7	7206.00	60.17 PK	74.00	-13.83	1.00 V	169	43.66	16.51
8	7206.00	48.65 AV	54.00	-5.35	1.00 V	169	32.14	16.51

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.

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	92.36 PK			1.00 H	269	83.42	8.94
2	*2440.00	90.27 AV			1.00 H	269	81.33	8.94
3	4880.00	58.12 PK	74.00	-15.88	1.00 H	147	46.10	12.02
4	4880.00	45.36 AV	54.00	-8.64	1.00 H	147	33.34	12.02
5	7320.00	60.23 PK	74.00	-13.77	1.52 H	236	43.99	16.24
6	7320.00	47.88 AV	54.00	-6.12	1.52 H	236	31.64	16.24
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	93.14 PK			1.00 V	136	84.20	8.94
2	*2440.00	90.17 AV			1.00 V	136	81.23	8.94
3	4880.00	57.68 PK	74.00	-16.32	1.00 V	125	45.66	12.02
4	4880.00	46.25 AV	54.00	-7.75	1.00 V	125	34.23	12.02
5	7320.00	60.32 PK	74.00	-13.68	1.24 V	257	44.08	16.24
6	7320.00	49.55 AV	54.00	-4.45	1.24 V	257	33.31	16.24

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.

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	98.36 PK			1.20 H	130	89.38	8.98
2	*2480.00	97.48 AV			1.20 H	130	88.50	8.98
3	2483.50	54.20 PK	74.00	-19.80	1.20 H	130	45.22	8.98
4	2483.50	39.80 AV	54.00	-14.20	1.20 H	130	30.82	8.98
5	4960.00	54.22 PK	74.00	-19.78	1.00 H	236	42.09	12.13
6	4960.00	41.36 AV	54.00	-12.64	1.00 H	236	29.23	12.13
7	7440.00	59.31 PK	74.00	-14.69	1.00 H	48	43.36	15.95
8	7440.00	48.25 AV	54.00	-5.75	1.00 H	48	32.30	15.95
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	91.23 PK			1.00 V	140	82.25	8.98
2	*2480.00	89.74 AV			1.00 V	140	80.76	8.98
3	2483.50	53.22 PK	74.00	-20.78	1.00 V	140	44.24	8.98
4	2483.50	40.36 AV	54.00	-13.64	1.00 V	140	31.38	8.98
5	4960.00	57.12 PK	74.00	-16.88	1.00 V	258	44.99	12.13
6	4960.00	45.29 AV	54.00	-8.71	1.00 V	258	33.16	12.13
7	7440.00	60.94 PK	74.00	-13.06	1.00 V	136	44.99	15.95
8	7440.00	48.36 AV	54.00	-5.64	1.00 V	136	32.41	15.95

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.

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.
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	101601	Nov. 01, 23
Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Jan. 15, 24
Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Jan. 11, 24
Frequency Analyzer	Keysight	N9010B	MY60240432	Nov. 01, 23
Progammble Temperature&Humidity Chamber	Hongjin	HYC-TH-225DH	DG-180746	Jan. 11, 24
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Agilent	E3640A	MY40004013	Feb. 08, 24
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 Shielded room.
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.
3. Test site: No. 122, Houjie Avenue West Houjie Town, Dongguan City Guangdong Province, 523960, People's Republic of China.

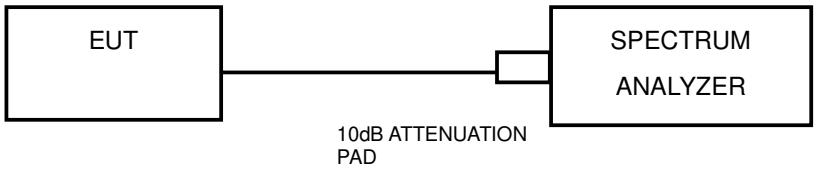
4.2.3 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 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.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

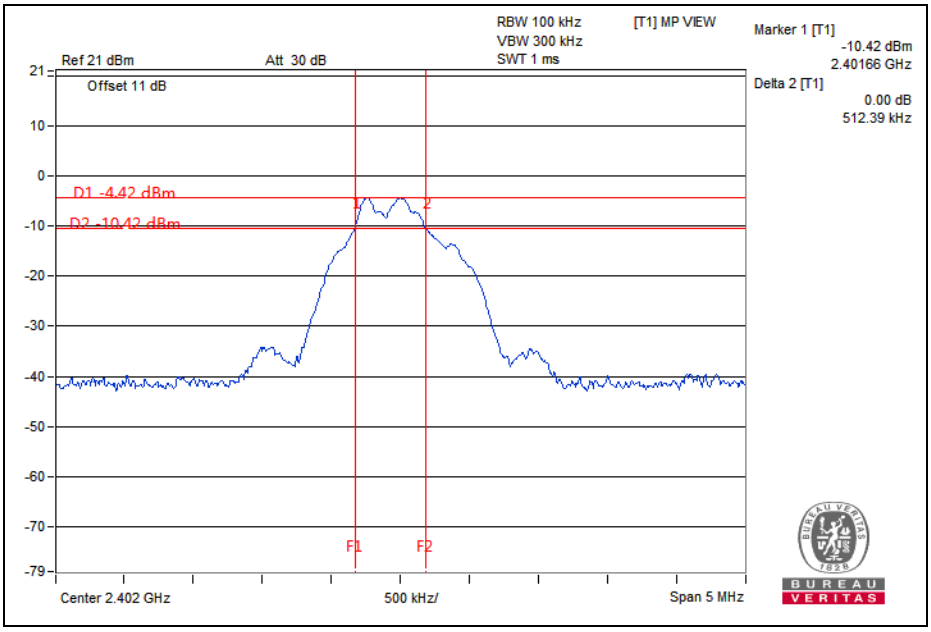
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.7 TEST RESULTS

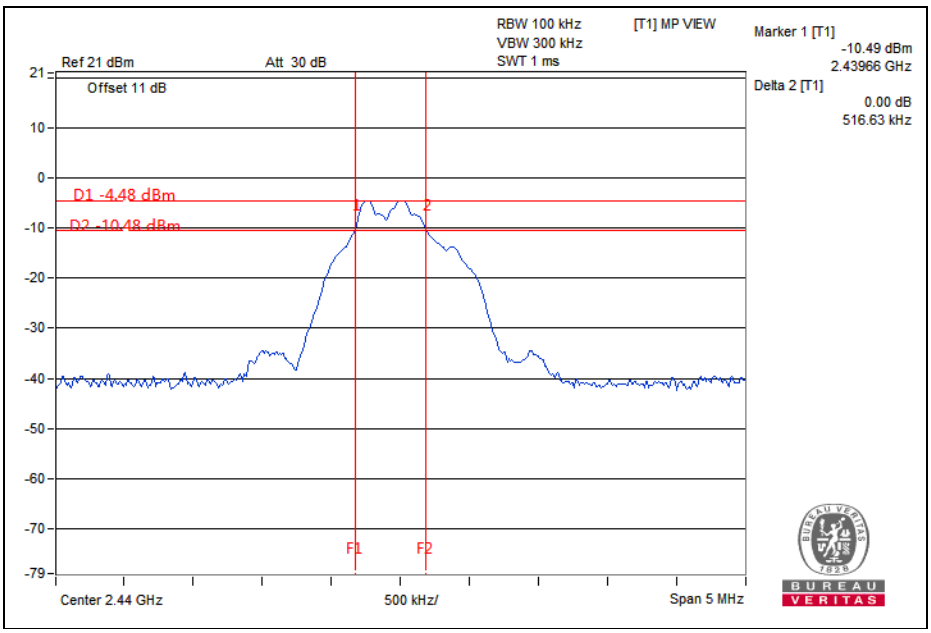
BT-LE GFSK (1Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.51	0.5	PASS
19	2440	0.52	0.5	PASS
39	2480	0.52	0.5	PASS

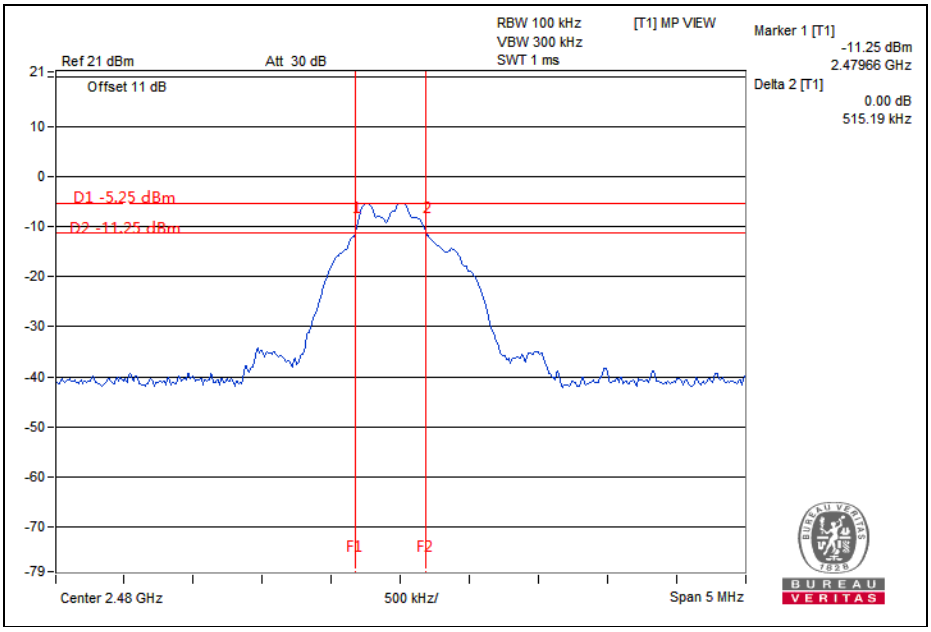
CH0



CH19


RBW 100 kHz
VBW 300 kHz
SWT 1 ms
[T1] MP VIEW
Marker 1 [T1]
-10.49 dBm
2.43966 GHz
Delta 2 [T1]
0.00 dB
516.63 kHz
Ref 21 dBm
Att 30 dB
Offset 11 dB
D1 -4.48 dBm
D2 -10.48 dBm
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
F1
F2
Center 2.44 GHz
500 kHz/
Span 5 MHz

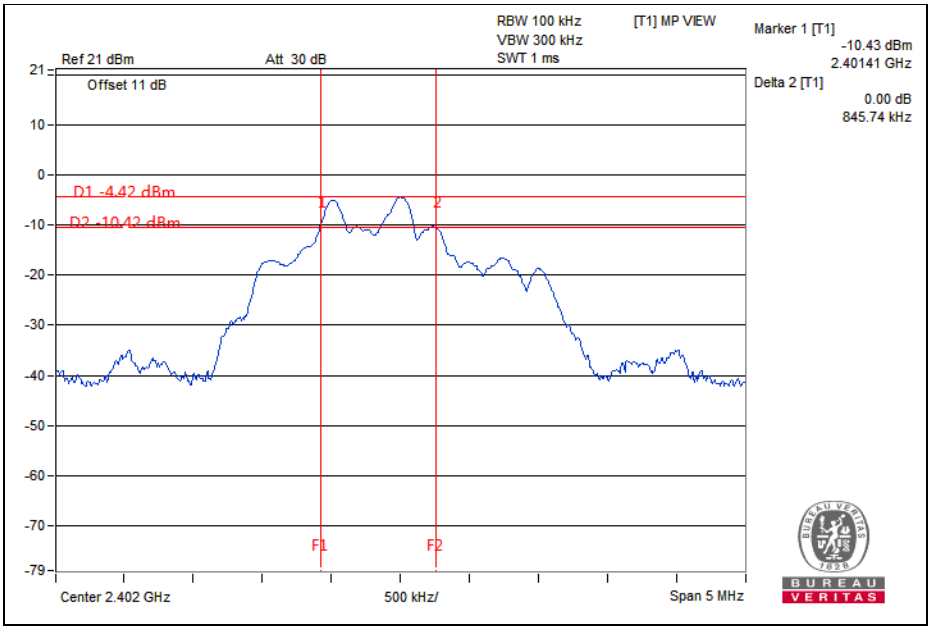
CH40


RBW 100 kHz
VBW 300 kHz
SWT 1 ms
[T1] MP VIEW
Marker 1 [T1]
-11.25 dBm
2.47966 GHz
Delta 2 [T1]
0.00 dB
515.19 kHz
Ref 21 dBm
Att 30 dB
Offset 11 dB
D1 -5.25 dBm
D2 -11.25 dBm
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
F1
F2
Center 2.48 GHz
500 kHz/
Span 5 MHz

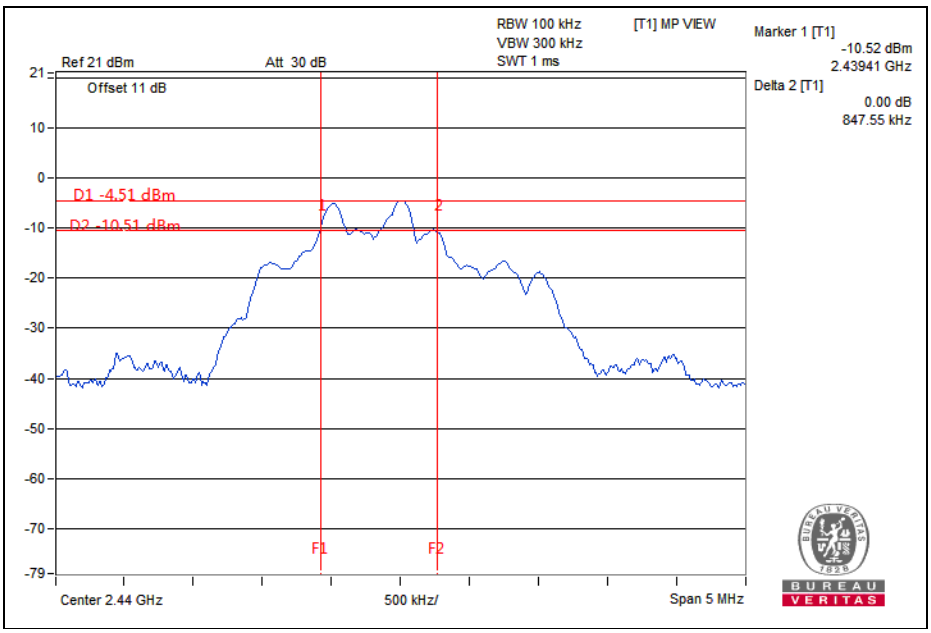
BT-LE GFSK (2Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.85	0.5	PASS
19	2440	0.85	0.5	PASS
39	2480	0.85	0.5	PASS

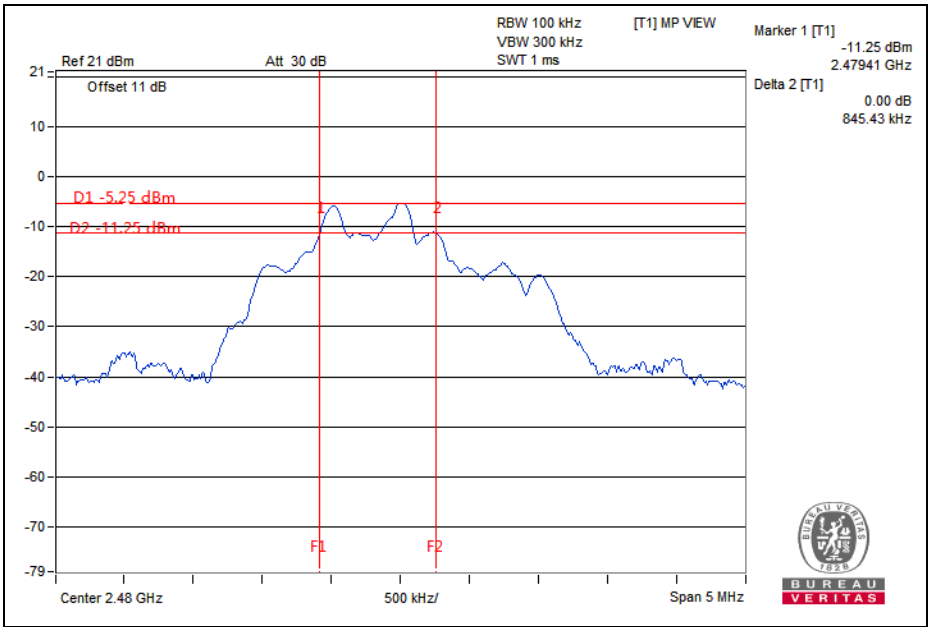
CH0



CH19


RBW 100 kHz
VBW 300 kHz
SWT 1 ms
[T1] MP VIEW
Marker 1 [T1]
-10.52 dBm
2.43941 GHz
Delta 2 [T1]
0.00 dB
847.55 kHz
Ref 21 dBm
Att 30 dB
Offset 11 dB
D1 -4.51 dBm
D2 -10.51 dBm
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
F1
F2
Center 2.44 GHz
500 kHz/
Span 5 MHz

CH40

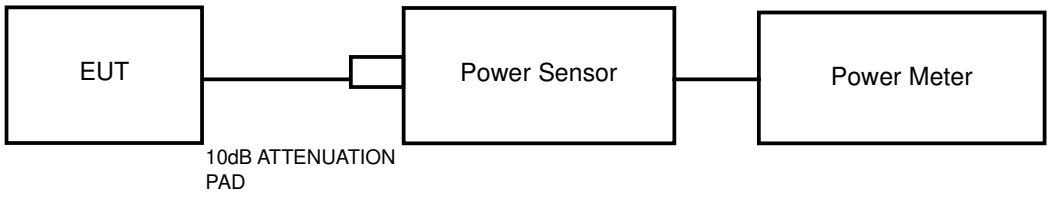

RBW 100 kHz
VBW 300 kHz
SWT 1 ms
[T1] MP VIEW
Marker 1 [T1]
-11.25 dBm
2.47941 GHz
Delta 2 [T1]
0.00 dB
845.43 kHz
Ref 21 dBm
Att 30 dB
Offset 11 dB
D1 -5.25 dBm
D2 -11.25 dBm
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
F1
F2
Center 2.48 GHz
500 kHz/
Span 5 MHz

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 senso 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

BT-LE GFSK (1Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	**2402**	**-4.02**	**0.3963**	**1**	**PASS**
19	2440	-4.04	0.3945	1	PASS
39	2480	-4.79	0.3319	1	PASS

BT-LE GFSK (2Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	**2402**	**-3.92**	**0.4055**	**1**	**PASS**
19	2440	-3.98	0.3999	1	PASS
39	2480	-4.68	0.3404	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.

BT-LE GFSK (1Mbps)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
0	**2402**	**-5.43**
19	2440	-5.47
39	2480	-6.12

BT-LE GFSK (2Mbps)

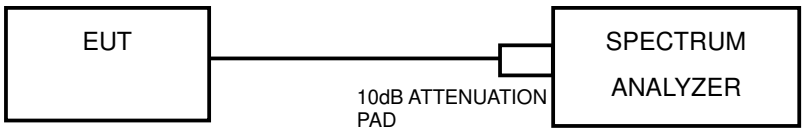
CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
0	**2402**	**-5.37**
19	2440	-5.41
39	2480	-6.05

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

1. Set the span to 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW ≥ 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.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITION

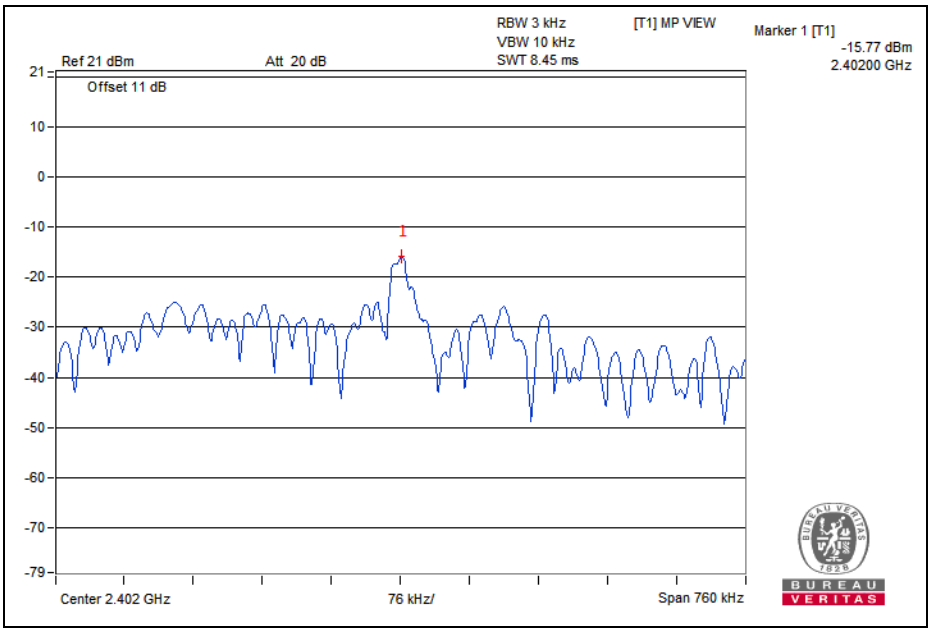
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.7 TEST RESULTS

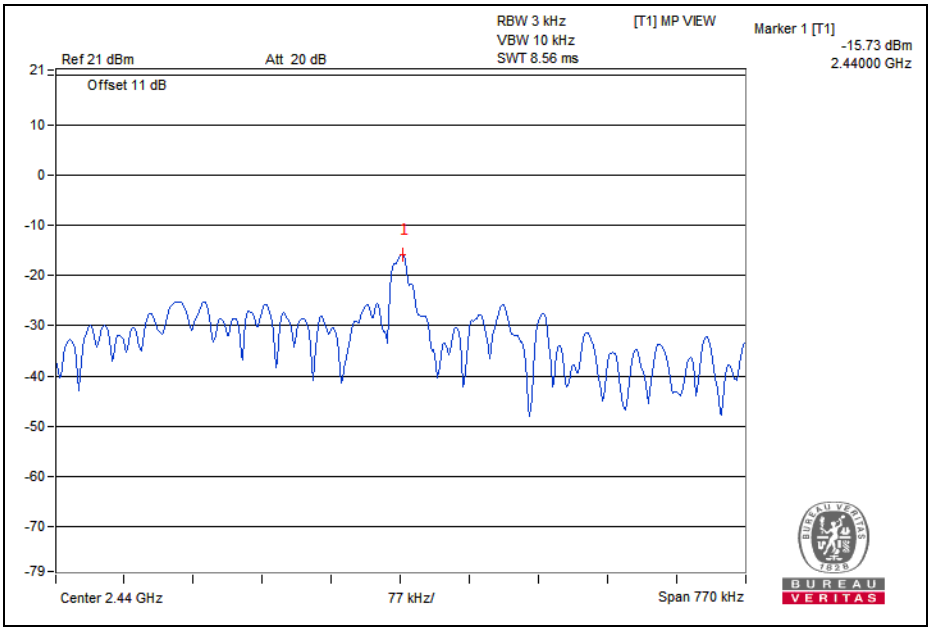
BT-LE GFSK (1Mbps)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-15.77	8	PASS
19	**2440**	**-15.73**	**8**	**PASS**
39	2480	-16.54	8	PASS

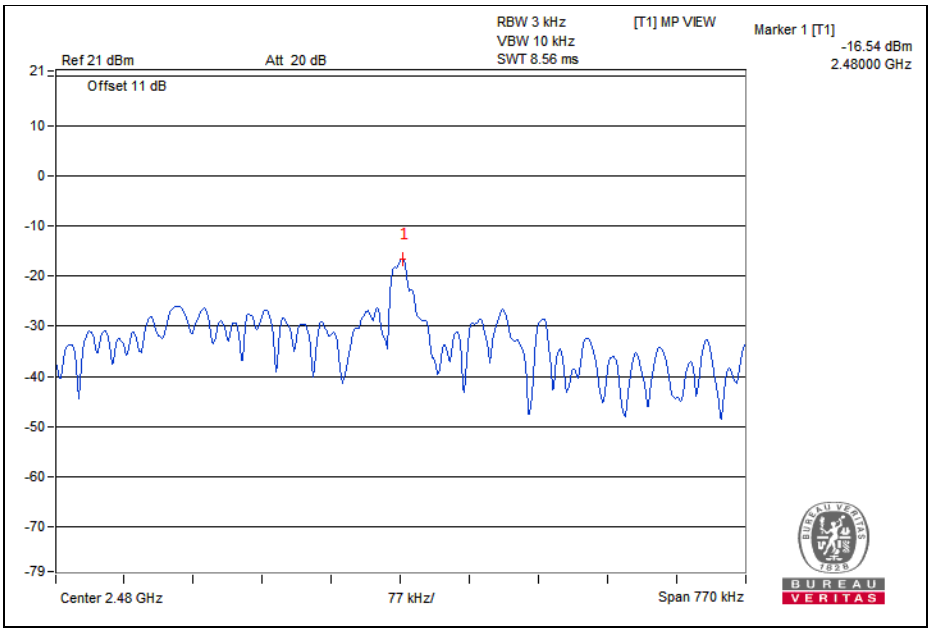
CH0



CH19


RBW 3 kHz
VBW 10 kHz
SWT 8.56 ms
[T1] MP VIEW
Marker 1 [T1]
-15.73 dBm
2.44000 GHz
Ref 21 dBm
Att 20 dB
Offset 11 dB
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
Center 2.44 GHz
77 kHz/
Span 770 kHz

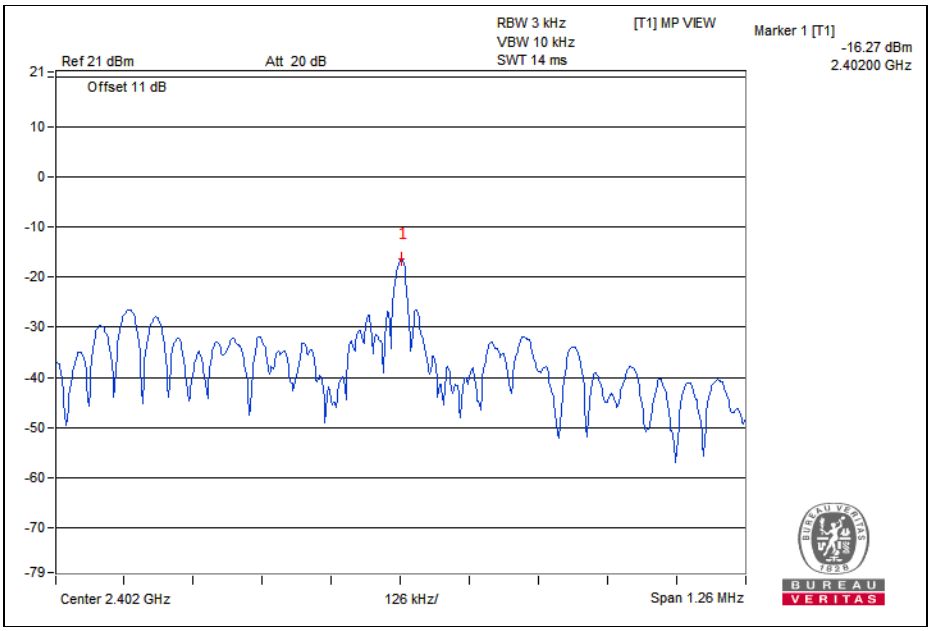
CH39


RBW 3 kHz
VBW 10 kHz
SWT 8.56 ms
[T1] MP VIEW
Marker 1 [T1]
-16.54 dBm
2.48000 GHz
Ref 21 dBm
Att 20 dB
Offset 11 dB
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
Center 2.48 GHz
77 kHz/
Span 770 kHz

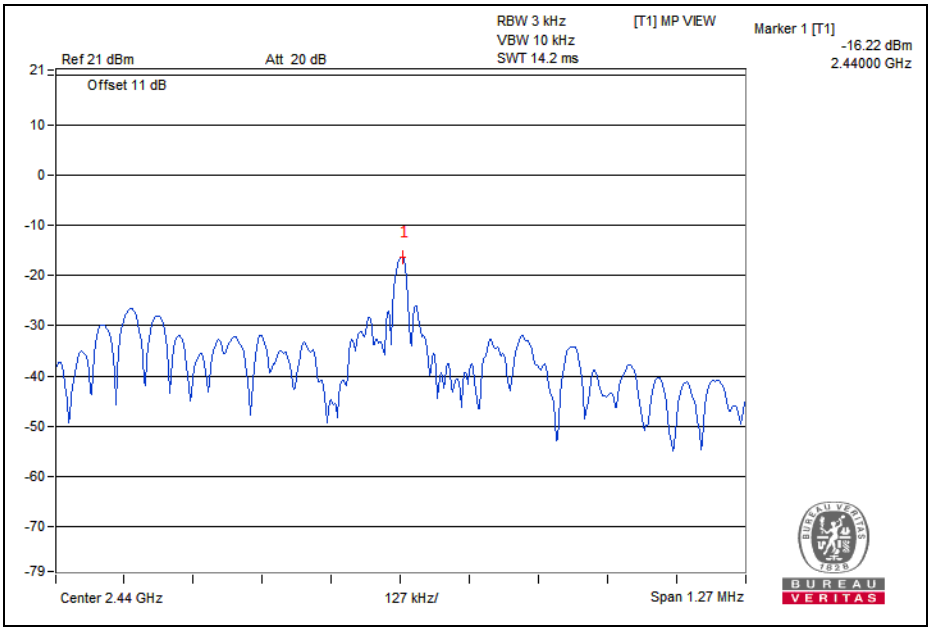
BT-LE GFSK (2Mbps)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-16.27	8	PASS
19	**2440**	**-16.22**	**8**	**PASS**
39	2480	-17.08	8	PASS

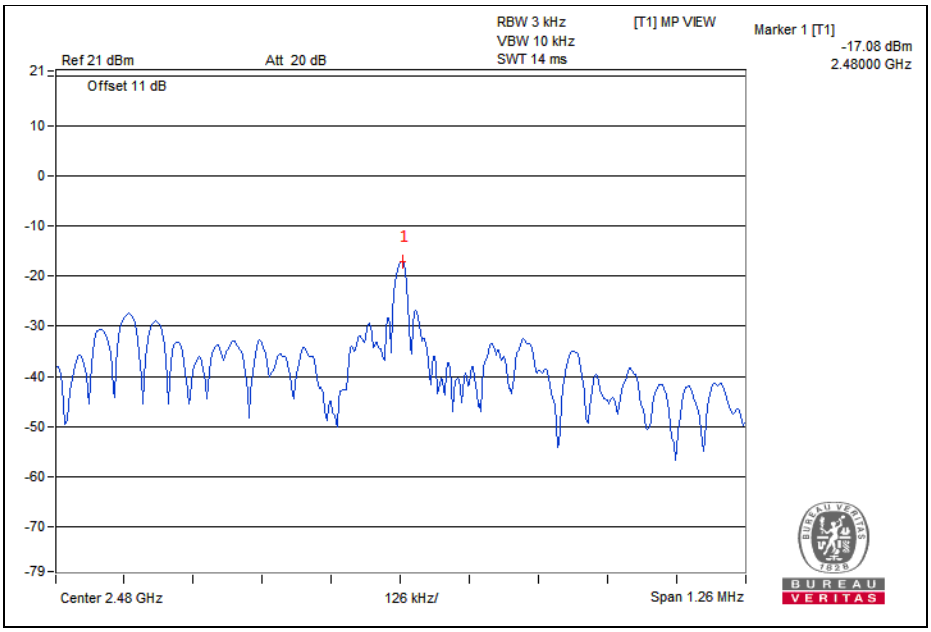
CH0



CH19


RBW 3 kHz
VBW 10 kHz
SWT 14.2 ms
[T1] MP VIEW
Marker 1 [T1]
-16.22 dBm
2.44000 GHz
Ref 21 dBm
Att 20 dB
Offset 11 dB
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
1
Center 2.44 GHz
127 kHz/
Span 1.27 MHz

CH39

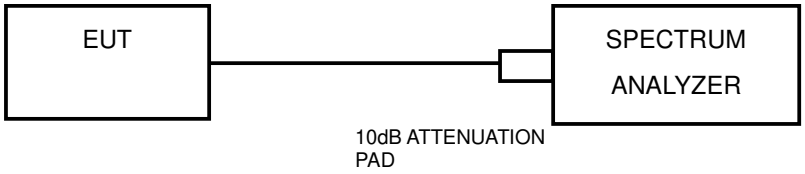

RBW 3 kHz
VBW 10 kHz
SWT 14 ms
[T1] MP VIEW
Marker 1 [T1]
-17.08 dBm
2.48000 GHz
Ref 21 dBm
Att 20 dB
Offset 11 dB
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
1
Center 2.48 GHz
126 kHz/
Span 1.26 MHz

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 the RBW = 100 kHz.
2. Set the VBW ≥ 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.

MEASUREMENT PROCEDURE OOBE

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

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

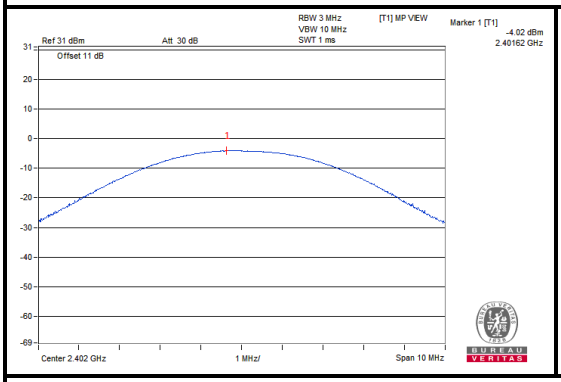
4.5.6 EUT OPERATING CONDITION

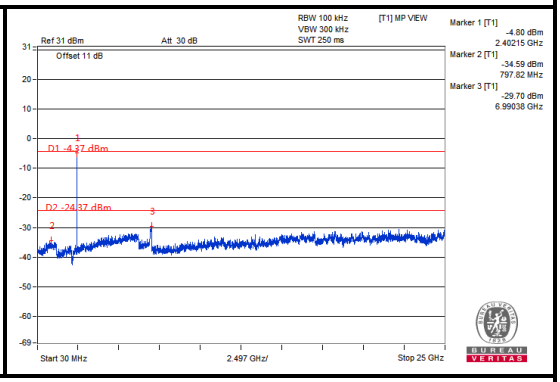
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.5.7 TEST RESULTS

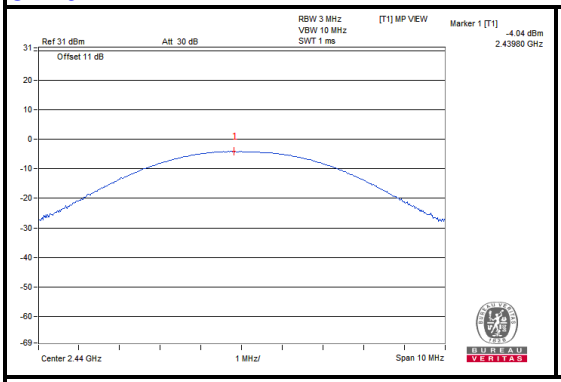
BT-LE GFSK (1Mbps)

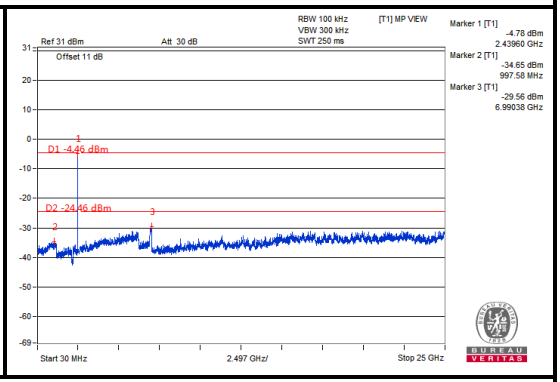
CH 0



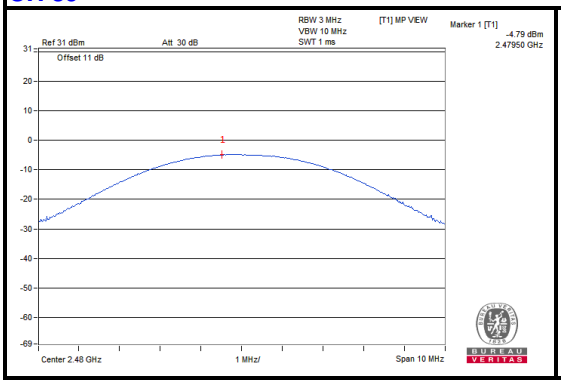


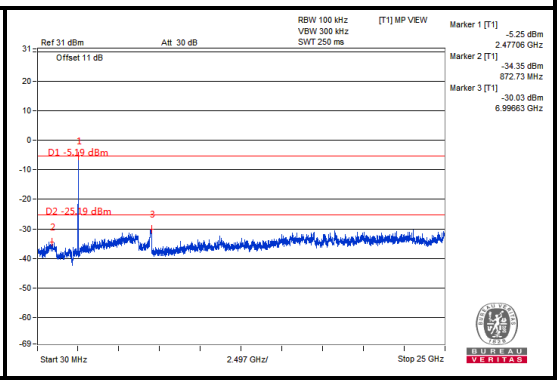
CH 19





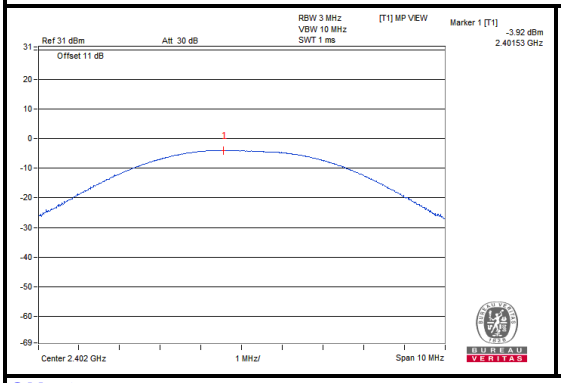
CH 39

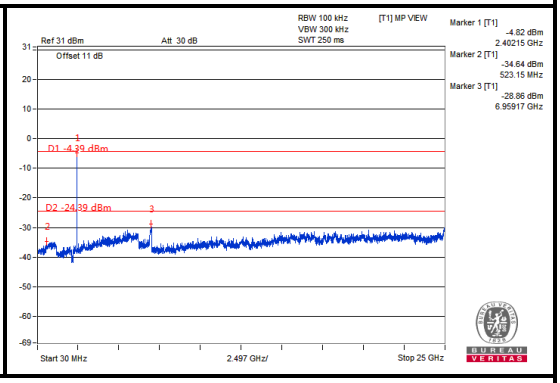




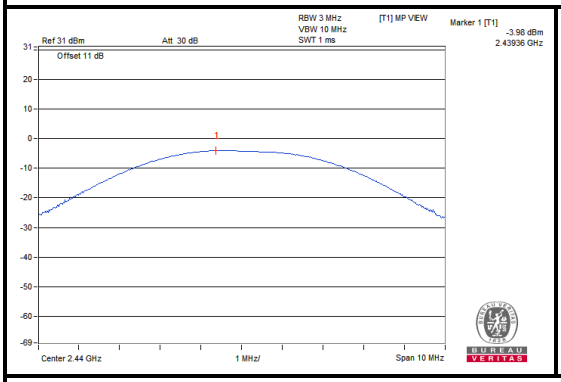
BT-LE GFSK (2Mbps)

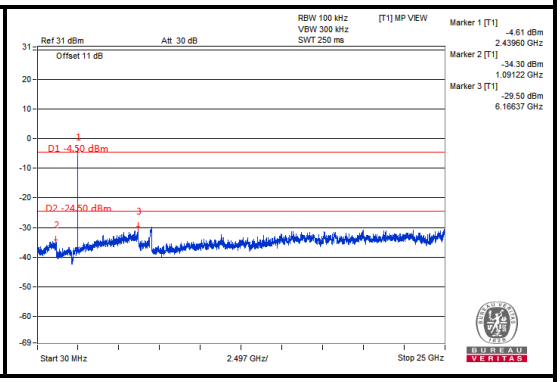
CH 0



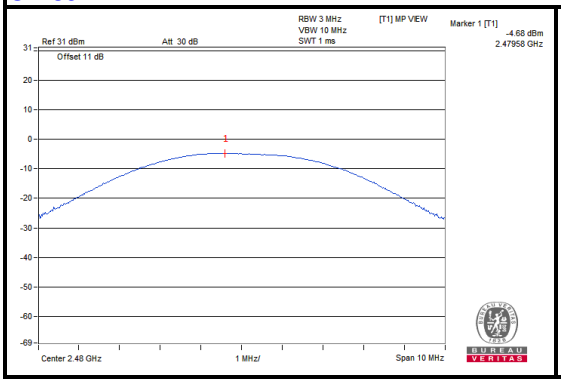


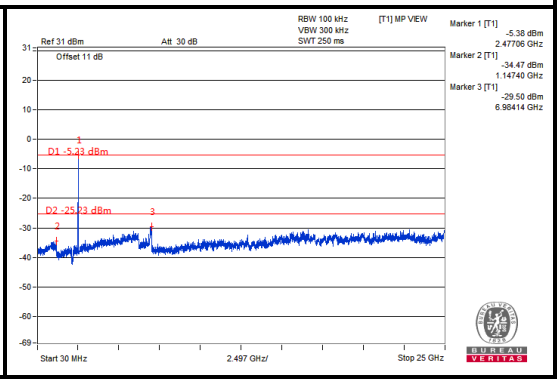
CH 19



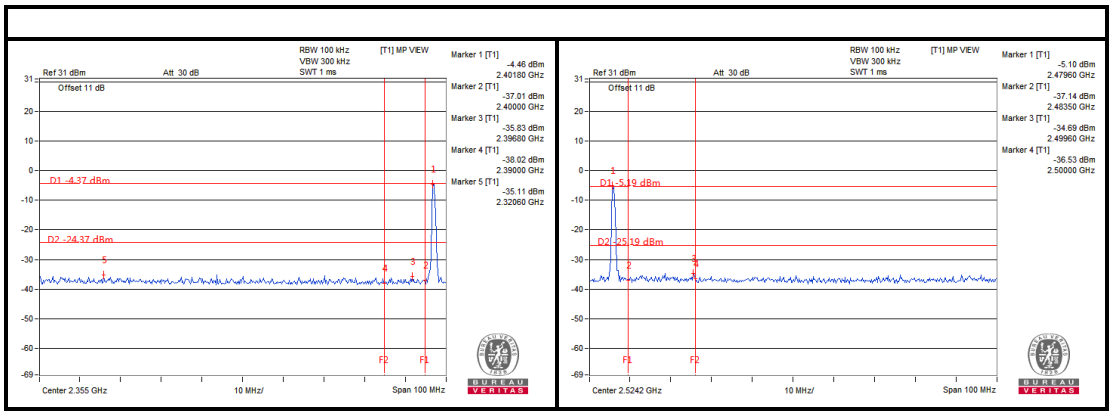


CH 39

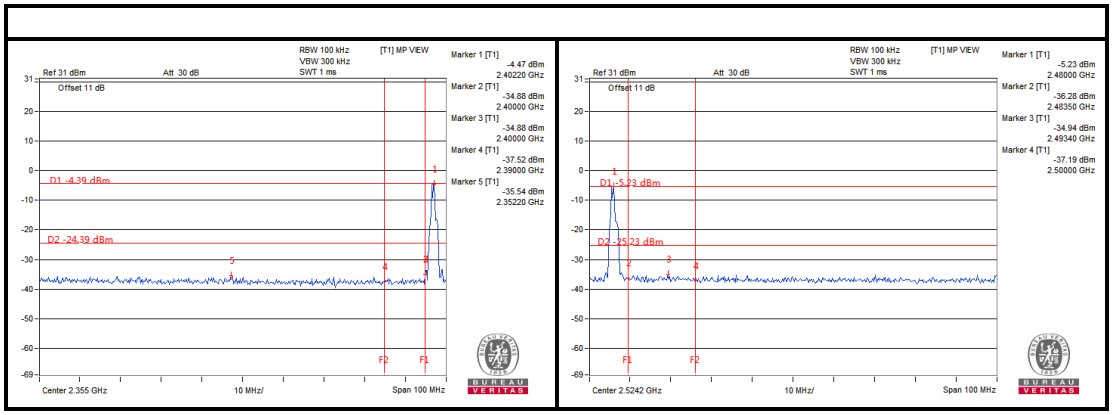




Band Edge (1Mbps):



Band Edge (2Mbps):



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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---