



FCC PART 15C TEST REPORT

BLUETOOTH LOW ENERGY (BLE) PART

No 118Z0718 -IOT01

for

TCL Communication Ltd.

GSM Quad band/UMTS 5 Band/LTE 12 Band Mobile phone

Model Name: 5060A

FCC ID: 2ACCJH090

with

Hardware Version: P10

Software Version: v1B53

Issued Date: 2018-6-14



Note:

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REPORT HISTORY

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1. Test Laboratory

1.1. Testing Location

Conducted testing location in CTTL(huayan North Road)

Address No 52, Huayan North Road, Haidian District, Beijing
P. R. China 100191

Radiated testing location in CTTL(Shuiyang)

Address No 51 Shuiyang Science Building, Xieyan Road,
Haidian District, Beijing P. R. China 100191

Radiated testing location in CTTL(BDA)

Address No 18A, Kangding Street, Beijing Economic-Technd City
Development Area Beijing P. R. China 100176

1.2. Testing Environment

Normal Temperature 15-35

Relative Humidity 20-75%

1.3. Project data

Testing Start Date: 2018-5-10

Testing End Date: 2018-6-14

1.4. Signature

Wu Le

(Prepared this test report)

Sun Zhenyu

(Reviewed this test report)

Lv Songdong

(Approved this test report)



2. Client Information

2.1. Applicant Information

CompanyName : TCL Communicat ion Lt d.
7/F, Bl ock F4, TCL Communicat ion Technolog y Buil ding TCL
Address/Post : International E Cit y Long Shan Yan Road, Nanshan District ,
Shenzen, Guangdong P.R. China 518052
City /
Postal Code /
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Telephone: 0086-755-36611722
Fax: /

2.2. Manufacturer Information

CompanyName : TCL Communicat ion Lt d
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Address/Post : International E Cit y Long Shan Yan Road, Nanshan District ,
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Postal Code /
Country /
Telephone: 0086-755-36611722
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Descript ion	GSM Quad band/UMTS 5 Band/LTE 12 Band Mobil e phone
Model Name	5060A
FCC ID	2ACCJH090
Frequency Band	ISM 2400MHz-2483.5MHz
Type of Modul at ion (LE mode)	GFSK (Bl uet ooth LowEnergy)
Number of Channel s (LE mode)	40
Power Supply	3.85V DC by Bat t ery

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	357537090201385	PIO	v1B53
EUT2	357537090201013	PIO	v1B53

*EUT ID: is used to identify the test sample in the lab internal ly

3.3. Internal Identification of AE

AE ID* Description

AE1	Bat t ery	/	/
AE2	Bat t ery	/	/
AE3	Char ger	/	/
AE4	Char ger	/	/
AE5	USB cabl e	/	/
AE6	USB cabl e	/	/

AE1

Model	CAC3860010C1
Manufact ur er	BM
Capacit ance	3860mAh
Nominal vdt age	3.85V

AE2

Model	CAC3860014C7
Manufact ur er	VEKEN
Capacit ance	4000mAh
Nominal vdt age	/

AE3

Model	CBA0059AGAC7
Manufact ur er	Cheng
Lengt h of cabl e	/

AE4

Model CBA0059AGAC4
Manufacturer AOHAI
Length of cable /

AE5

Model CDA0000024C2
Manufacturer JUWEI
Length of cable /

AE6

Model CDA0000024C8
Manufacturer PUAN
Length of cable /

*AE ID: is used to identify the test sample in the laboratory internally

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set 1	EUT1+ AE1+ AE3+ AE5/AE6	BLE
Set 2	EUT1+ AE1+ AE4+ AE5/AE6	BLE

3.5. Normal Accessory setting

Full year guarantee is used during the test.

3.6. General Description

The Equipment Under Test (EUT) is a model of GSM Quad band/UMTS 5 Band/LTE 12 Band Mobile phone with integrated antenna. It consists of normal options: lithium battery, charger, manual and specifications of the EUT were provided to fulfill the test samples under going test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–28MHz 2400–2483.5 MHz and 5725 –5850 MHz	2016
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	June, 2013

5. Test Results

5.1. Summary of Test Results

Abbreviations used in this document:

- P Pass, The EUT complies with the essential requirements in the standard.
- F Fail, The EUT does not comply with the essential requirements in the standard
- NA Not Applicable, The test was not applicable
- NP Not Performed, The test was not performed by CTTL

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
6dB Bandwidth	15.247 (a)(2)	P
Peak Output Power- Conducted	15.247 (b)(1)	P
Maximum Power Spectral Density Level	15.247(e)	P
Transmitter Spurious Emission- Conducted	15.247 (d)	P
Transmitter Spurious Emission- Radiated	15.247, 15.205, 15.209	P
Frequency Band Edges	15.247 (d)	P
AC Power Line Conducted Emission	15.107, 15.207	P

Please refer to ANNEX A for detail.

The measurement is made according to ANSI C63.10.

5.2. Statements

CTTL has evaluated the test cases requested by applicant / manufacturer as listed in section 5.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2.

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vect or Signal Analyzer	FSQ26	200136	Rohde & Schwarz	1 year	2018-09-30
2	Test Receiver	ESCI 3	100344	Rohde & Schwarz	1 year	2019-02-28
3	LISN	ENY16	101200	Rohde & Schwarz	1 year	2019-04-15
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	1 year	2018-12-30
2	BiLogAntenna	VULB9163	514	Schwarzkopf	3 years	2021-01-03
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	3 years	2020-05-31
6	EMI Antenna	3117	00139065	ETS-Lindgren	3 years	2020-11-15
7	Spectrum Analyzer	FSV40	101047	Rohde & Schwarz	1 year	2018-07-22

7. Measurement Uncertainty

7.1. Peak Output Power - Conducted

Measurement Uncertainty:

Measurement Uncertainty($k=2$)	0.66dB
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7.2. Frequency Band Edges

Measurement Uncertainty:

Measurement Uncertainty($k=2$)	0.66dB
----------------------------------	--------

7.3. Transmitter Spurious Emission - Conducted

Measurement Uncertainty:

Frequency Range	Uncertainty ($k=2$)
30 MHz~ 8 GHz	1.22dB
8 GHz~ 12.75 GHz	1.51dB
12.7GHz~ 26 GHz	1.51dB

7.4. Transmitter Spurious Emission - Radiated

Measurement Uncertainty:

Frequency Range	Uncertainty ($k=2$)
1 GHz	5.40dB
1 GHz	5.26dB

7.5. 6dB Bandwidth

Measurement Uncertainty:

Measurement Uncertainty($k=2$)	61.936Hz
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7.6. Maximum Power Spectral Density Level

Measurement Uncertainty:

Measurement Uncertainty($k=2$)	0.66dB
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7.7. AC Powerline Conducted Emission

Measurement Uncertainty:

Measurement Uncertainty($k=2$)	3.08dB
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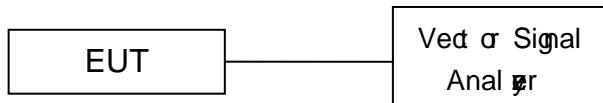
ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

- 1). Connect the EUT to the test system correctly
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping on hopping off).
- 5). Set the speed of manual or fast start measurement.
- 6). Record the values. View or Signal Analyzer



A.1.2. Radiated Emission Measurements

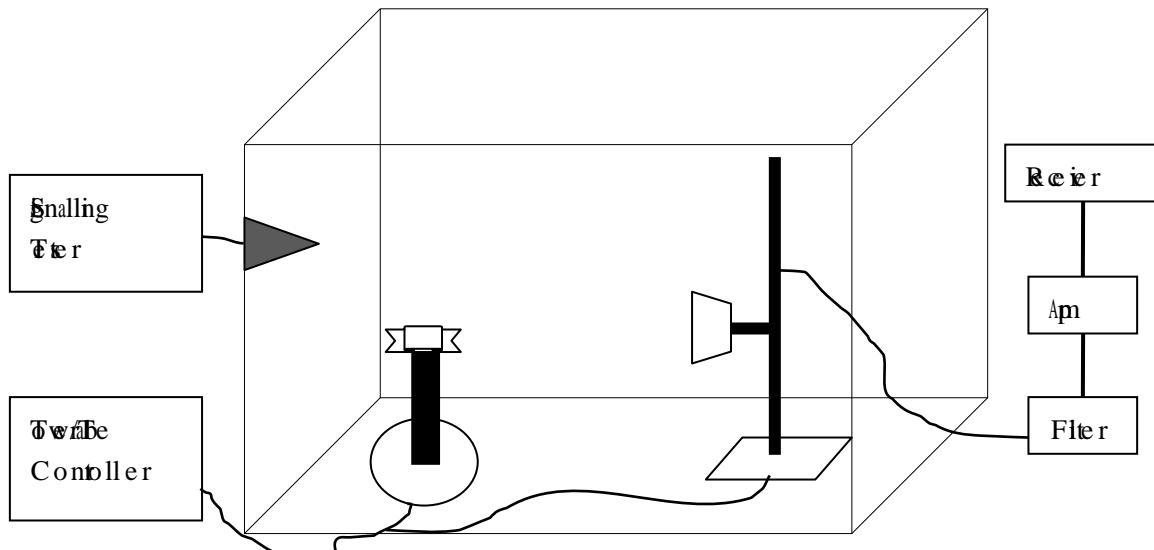
The measurement is made according to ANSI C63.10.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximum result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1mt to 4mt over the maximum resolution.

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz RBW = 100 kHz VBW = 300 kHz

Sweep frequency from 1 GHz to 26GHz RBW = 1MHz VBW = 1MHz



A.2. Peak Output Power - Conducted

Method of Measurement: See ANSI C63.10-clause 11.9.1.1

- a) Set the RBW= 1 MHz
- b) Set VBW= 3 MHz
- c) Set span= 3 MHz
- d) Sweep time = auto coupling.
- e) Detect σ = peak.
- f) Trace mode = max hold.
- g) All other trace features disabled.
- h) Use peak marker function to determine the peak amplitude level.

Measurement Limit

Standard	Limit (dBm)
FCC Part 15.247(b)(1)	< 30

Measurement Results:

For GFSK

Channel No.	Frequency (MHz)	Peak Conducted Output Power (dBm)	Conclusion
0	2402	-4.33	P
19	2440	-3.37	P
39	2480	-4.79	P

Conclusion: PASS

A.3. Frequency Band Edges - Conducted

Method of Measurement: See ANSI C63.10-clause 6.10.4

Connect the spectrum analyzer or to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer or settings as described below:

- a) Set Span= 8MHz
- b) Sweep Time: Auto
- c) Set the RBW=100 kHz
- d) Set the VBW=300 kHz
- e) Detection: Peak
- f) Trace: Max hold

Observe the standard trace and measure the time interval between the peak of the fundamental and the peak of the band edge emission. This is not an absolute field strength measurement; it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	< -20

Measurement Result:

For GFSK

Channel No.	Frequency (MHz)	Hopping	Band Edge Power (dBc)		Conclusion
0	2402	Hopping OFF	Fig1	-53.05	P
39	2480	Hopping OFF	Fig2	-52.33	P

Conclusion: PASS

Test graphs as below

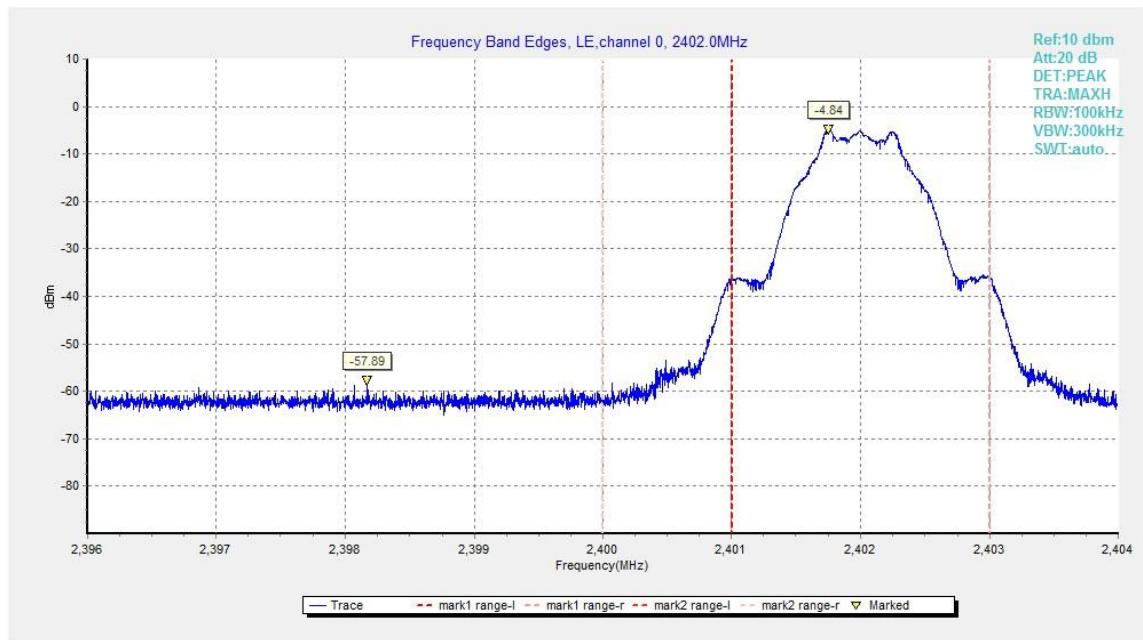


Fig1. Frequency Band Edges: GFSK, 2402 MHz, HoppingOff

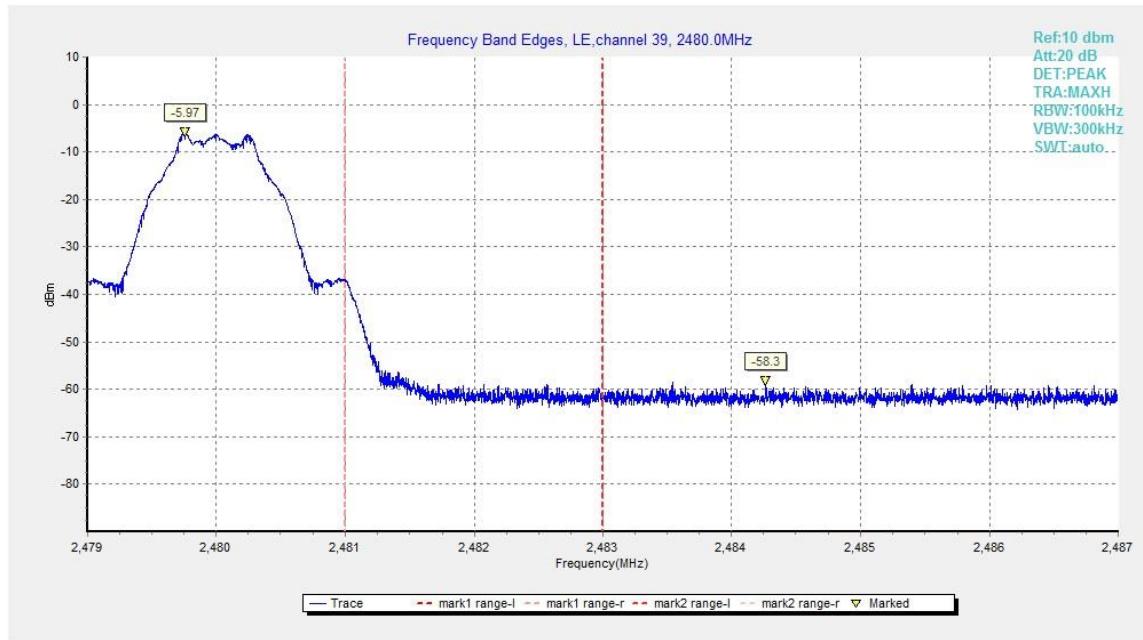


Fig2. Frequency Band Edges: GFSK, 2480 MHz, HoppingOff

A.4. Transmitter Spurious Emission - Conducted

Method of Measurement: See ANSI C63.10-clause 11.11.2 and clause 11.11.3

Measurement Procedure – Reference Level

1. Set the RBW = 100 kHz
2. Set the VBW= 300 kHz
3. Set the span to 1.5 times the DTS bandwidth.
4. Detected σ = peak.
5. Sweep time = auto coupling.
6. Trace mode = max hold.
7. All other traces off until step 10.
8. Use the peak marker function to determine the maximum PSD level Next, determine the power in 100 kHz band segments outside of the assigned frequency band using the following measurement :

Measurement Procedure - Unwanted Emissions

1. Set RBW = 100 kHz
2. Set VBW= 300 kHz
3. Set span to encompass the specified spectrum to be examined.
4. Detected σ = peak.
5. Trace Mode = max hold.
6. Sweep = auto coupling.
7. All other traces off (this may take some time depending on the extent of the span). Ensure that the amplitude of all unwanted emissions outside of the assigned frequency band (excluding rest rejected frequency bands) is attenuated by at least the minimum requirements specified above.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

Measurement Results:
For GFSK

Channel No.	Frequency (MHz)	Frequency Range	Test Results	Conclusion
0	2402	Center Frequency	Fig3	P
		30 MHz~4 GHz	Fig4	P
		1 GHz~ 3 GHz	Fig5	P
		3 GHz~ 10 GHz	Fig6	P
		10GHz~ 26 GHz	Fig7	P
19	2440	Center Frequency	Fig8	P
		30 MHz~4 GHz	Fig9	P
		1 GHz~ 3 GHz	Fig10	P
		3 GHz~ 10 GHz	Fig11	P
		10GHz~ 26 GHz	Fig12	P
39	2480	Center Frequency	Fig13	P
		30 MHz~4 GHz	Fig14	P
		1 GHz~ 3 GHz	Fig15	P
		3 GHz~ 10 GHz	Fig16	P
		10 GHz~26 GHz	Fig17	P

Conclusion: PASS
Test graphs as below


Fig3. Transmitter Spurious Emission-Conducted: GFSK, 2402MHz

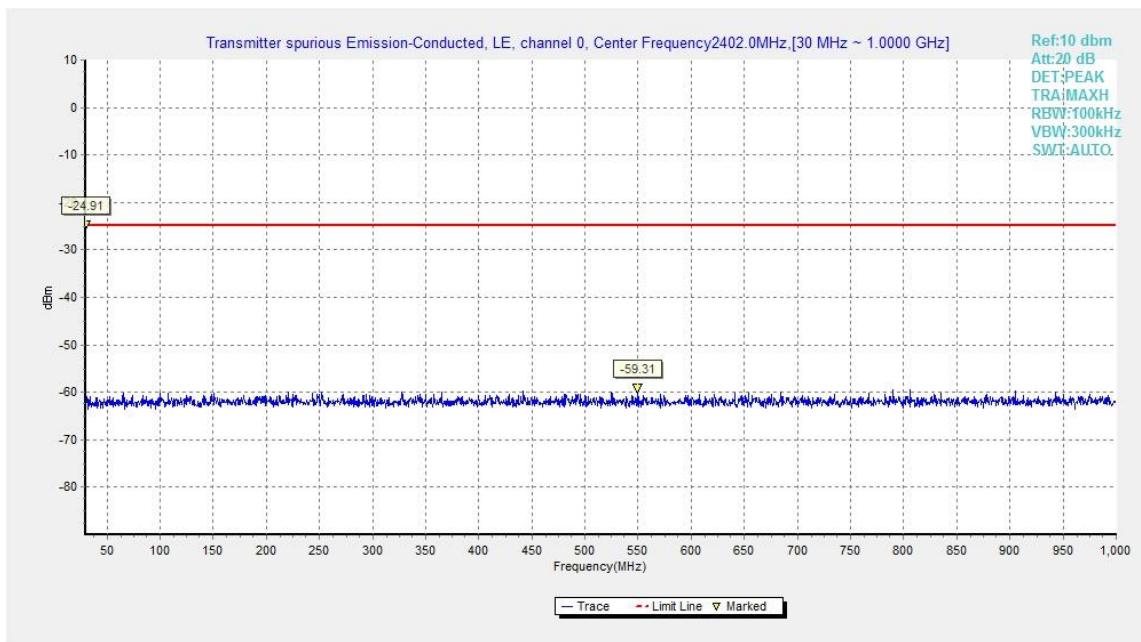


Fig4. Transmitter Spurious Emission-Conducted: GFSK, 2402 MHz, 30MHz - 1GHz

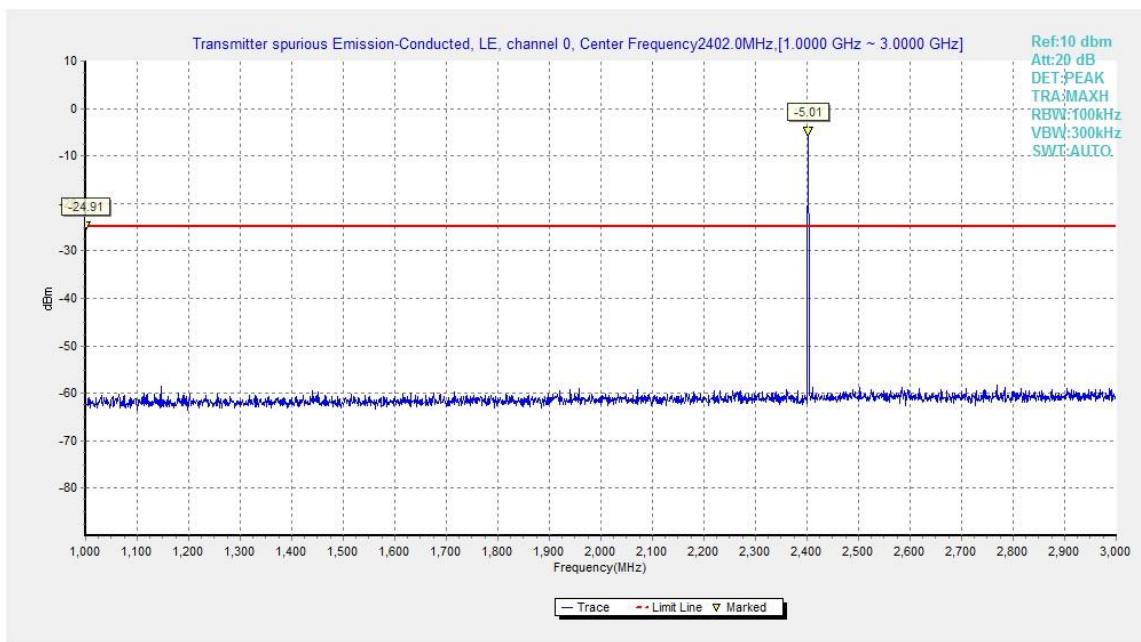


Fig5. Transmitter Spurious Emission-Conducted: GFSK, 2402 MHz, 1GHz - 3GHz

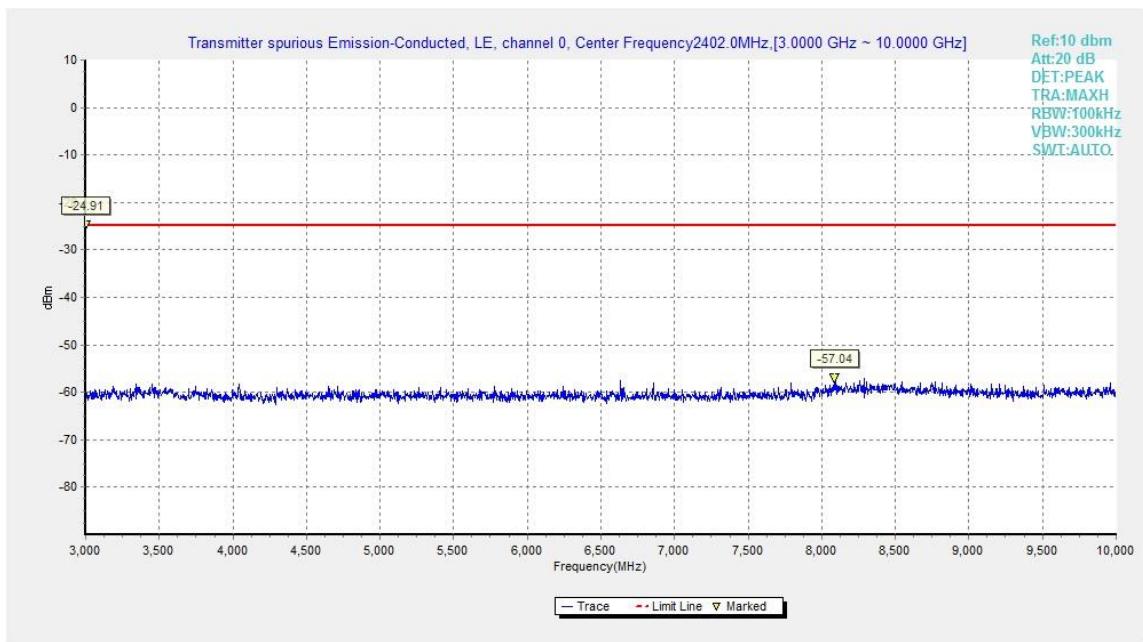


Fig6. Transmitter Spurious Emission-Conducted: GFSK, 2402 MHz, 3GHz - 10GHz

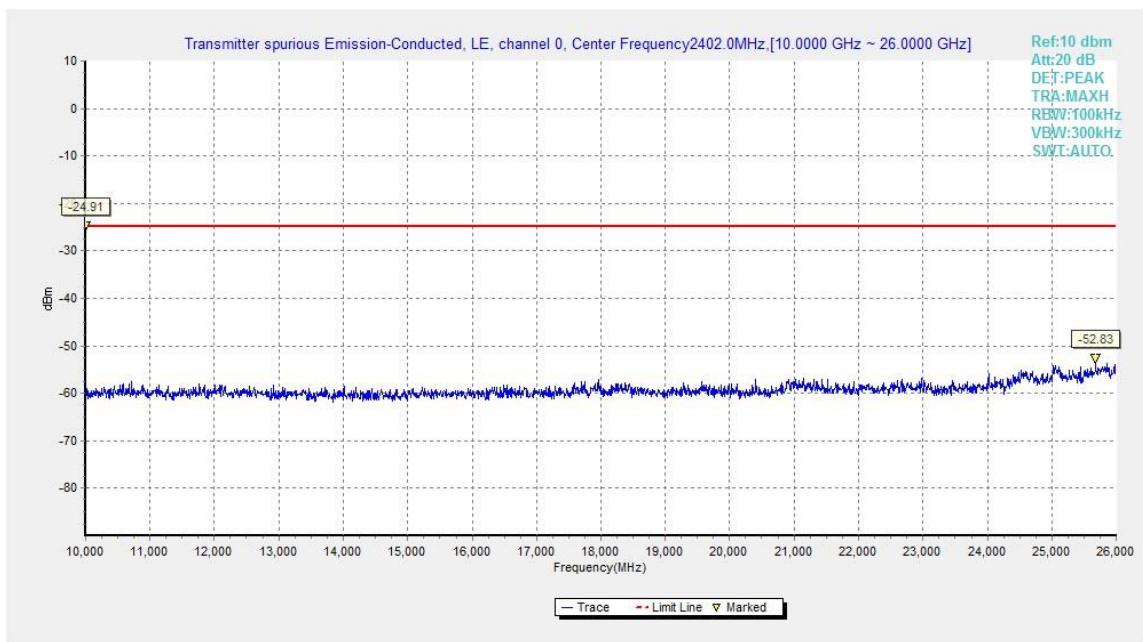


Fig7. Transmitter Spurious Emission-Conducted: GFSK, 2402 MHz, 10GHz - 26GHz

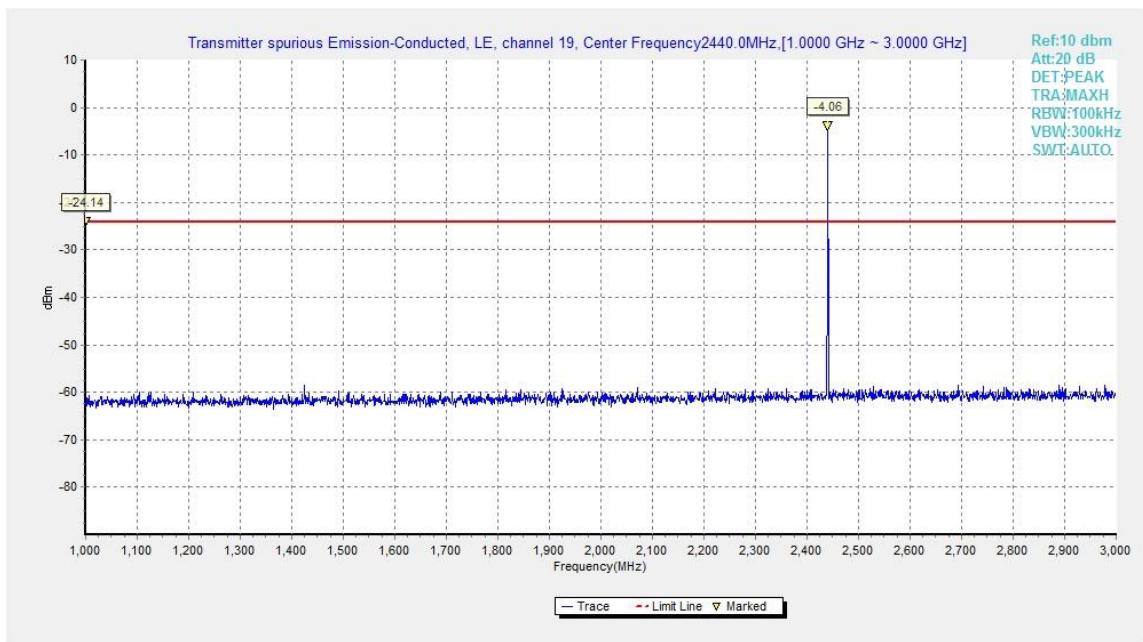


Fig10. Transmitter Spurious Emission- Conducted: GFSK, 2440 MHz, 1GHz – 3GHz

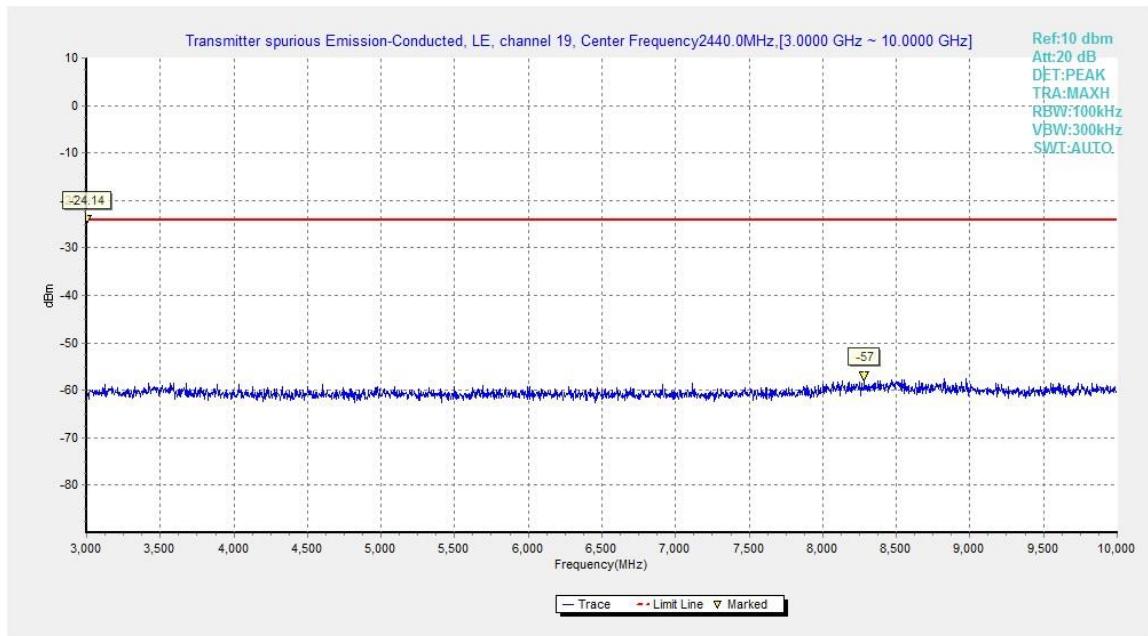


Fig11. Transmitter Spurious Emission- Conducted: GFSK, 2440 MHz, 3GHz – 10GHz

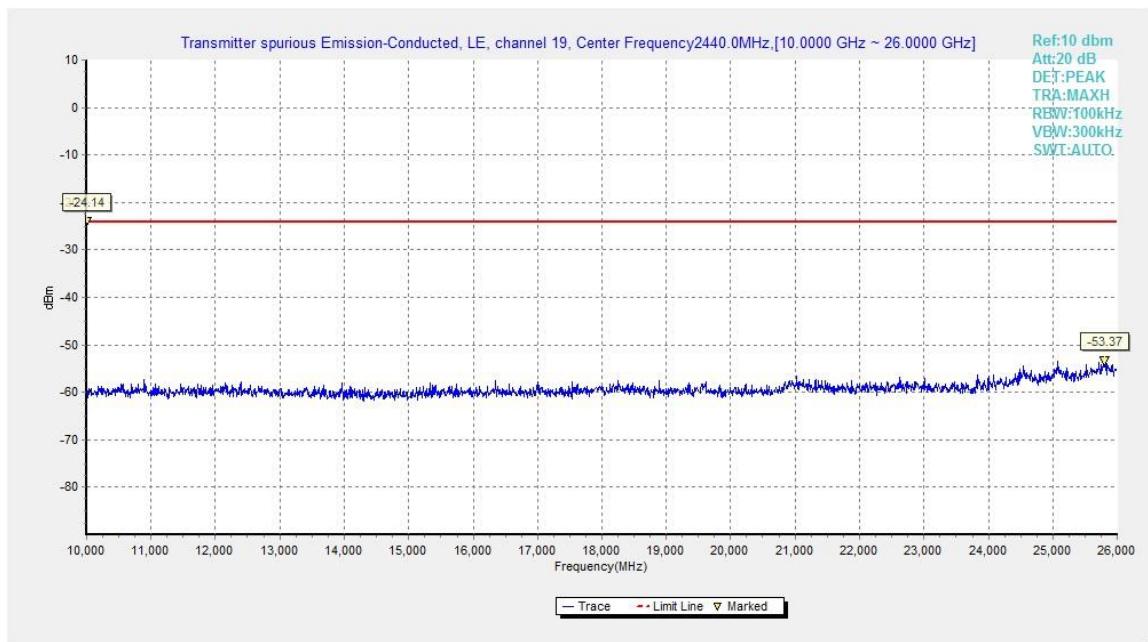


Fig12. Transmitter Spurious Emission-Conducted: GFSK, 2440 MHz, 10GHz – 26GHz

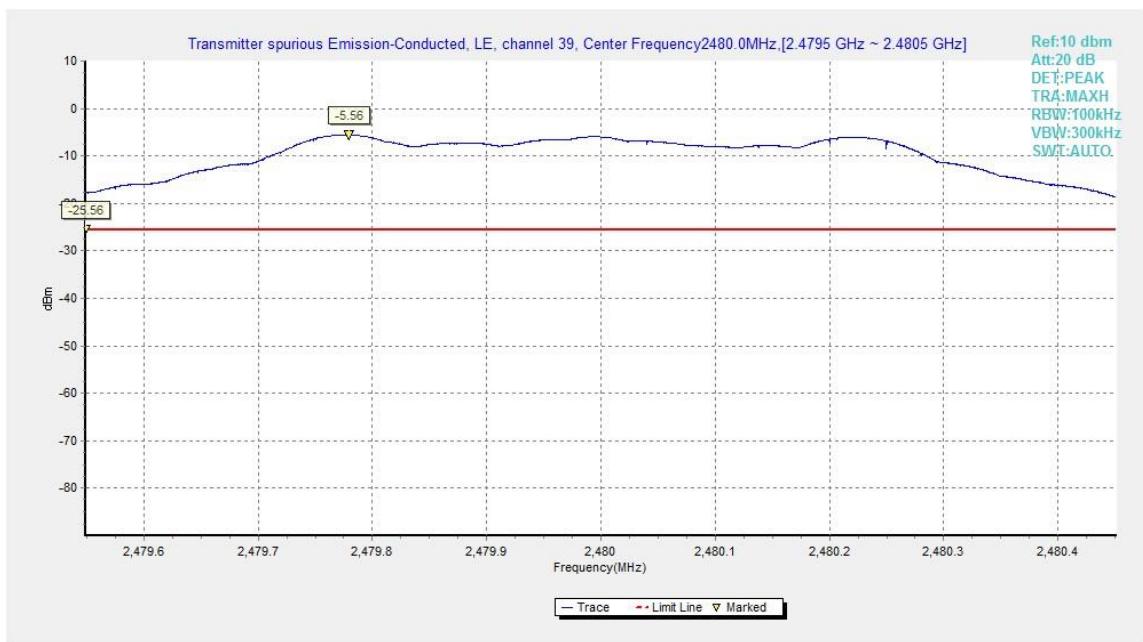


Fig13. Transmitter Spurious Emission-Conducted: GFSK, 2480 MHz

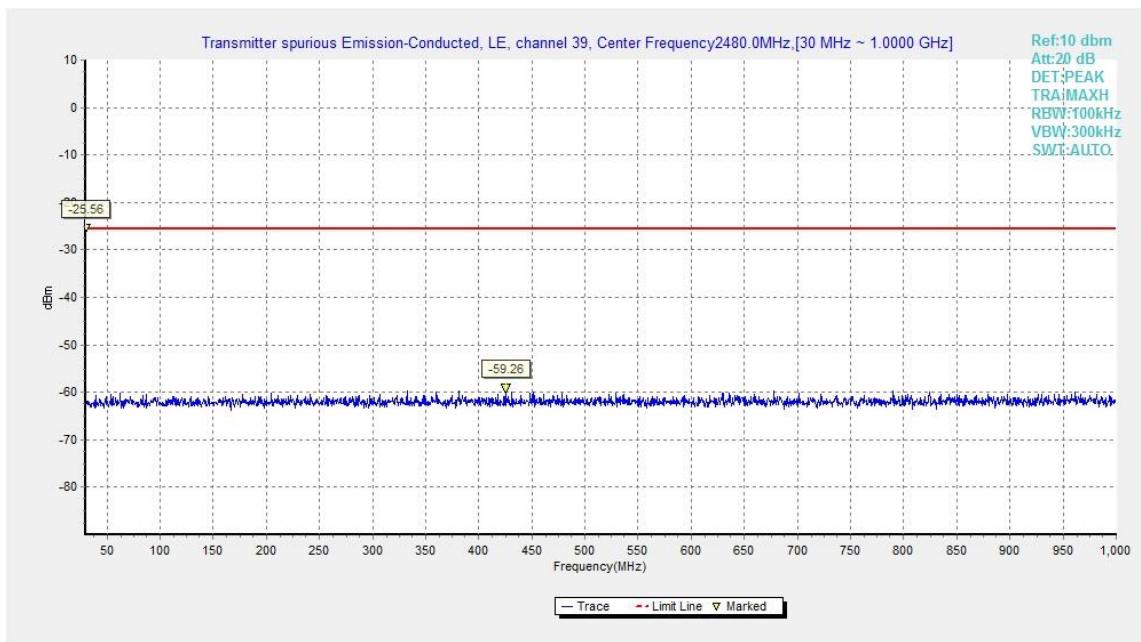


Fig14. Transmitter Spurious Emission-Conducted: GFSK, 2480 MHz, 30MHz - 1GHz

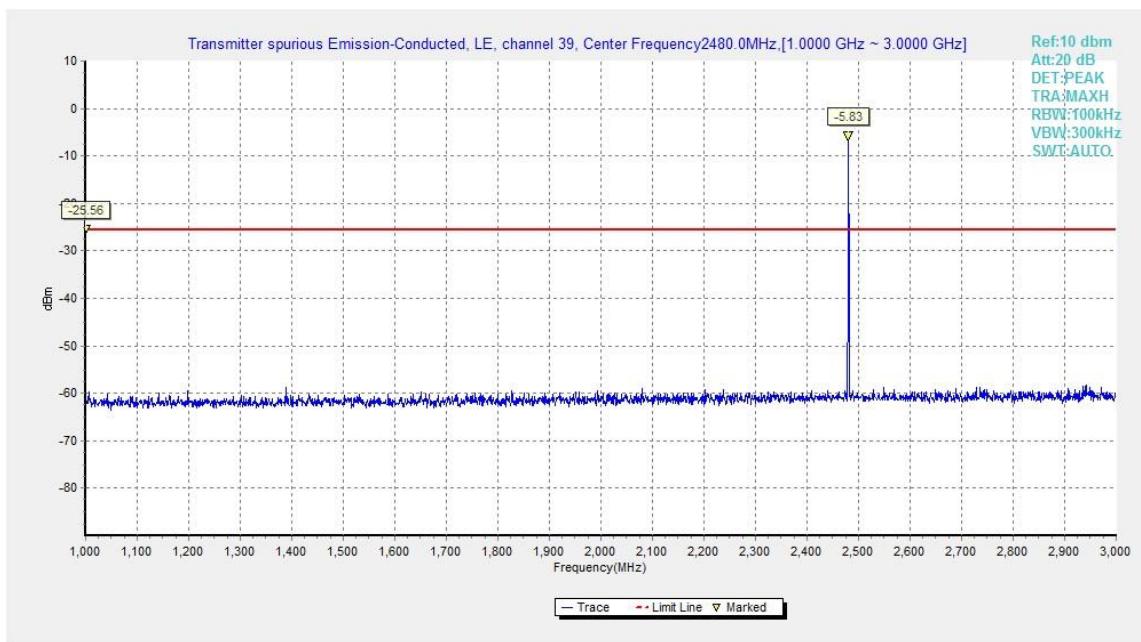


Fig15. Transmitter Spurious Emission-Conducted: GFSK, 2480 MHz, 1GHz - 3GHz

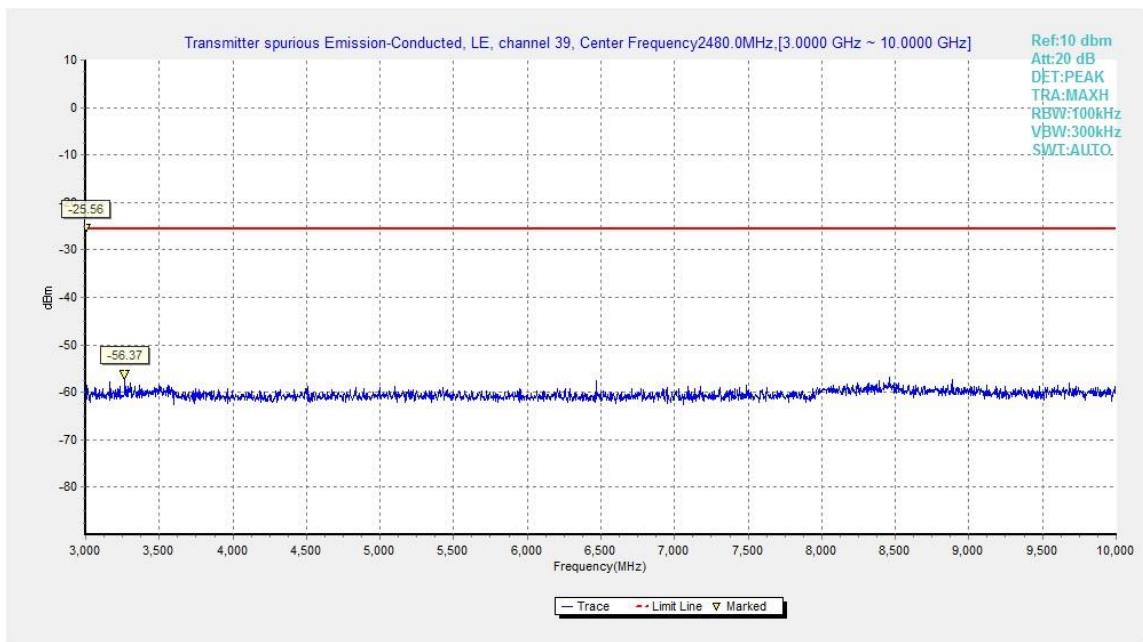


Fig16. Transmitter Spurious Emission - Conditioned: GFSK, 2480 MHz, 3GHz - 10GHz

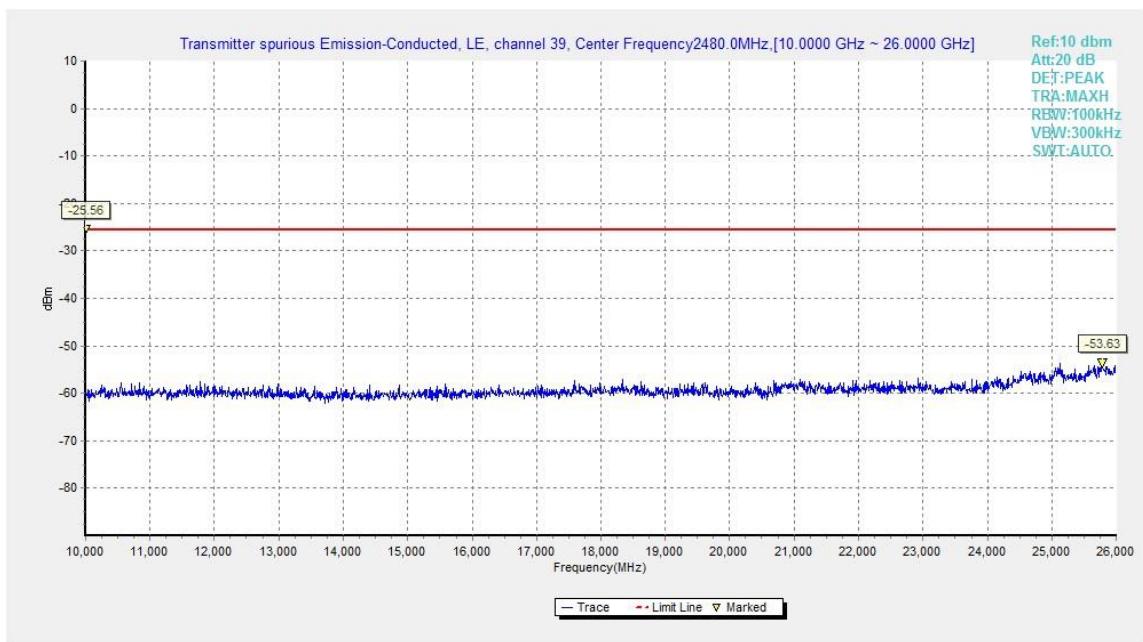


Fig17. Transmitter Spurious Emission- Conditioned: GFSK, 2480 MHz, 10GHz - 26GHz

2480 MHz	1 GHz~ 3 GHz	--	P
	3 GHz~ 48 GHz	--	P
Power	2.38GHz~ 4GHz---L	Fig18	P
Power	2.45GHz~ 2.5GHz ---H	Fig19	P
For all channels	18 GHz~ 26.5 GHz	--	P

GFSK 2402MHz-Average

Frequency (MHz)	Measurement Result " †	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading "	Limit " †	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2385.602	46.47	2.9	32.0	11.60	54.0	7.5	H	155	135
2388.320	46.46	2.9	32.0	11.61	54.0	7.5	H	155	160
4804.500	35.22	-32.8	34.5	33.57	54.0	18.8	H	155	92
7206.000	38.11	-31.6	36.1	33.64	54.0	15.9	H	155	115
9607.500	37.93	-30.0	37.0	30.98	54.0	16.1	H	155	112
12010.500	42.92	-29.8	39.3	33.44	54.0	11.1	H	155	85

GFSK 2440MHz-Average

Frequency (MHz)	Measurement Result " †	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading "	Limit " †	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2380.400	46.16	2.9	32.1	11.24	54.0	7.8	H	155	18
2489.300	46.16	2.9	32.6	10.63	54.0	7.8	H	155	4
4882.500	35.10	-32.7	34.5	33.31	54.0	18.9	H	155	84
7323.000	37.99	-31.9	36.1	33.84	54.0	16.0	H	155	26
9763.500	38.39	-30.6	37.2	31.76	54.0	15.6	H	155	4
12205.500	43.72	-29.4	39.2	33.93	54.0	10.3	H	155	48

GFSK 2480MHz-Average

Frequency (MHz)	Measurement Result " †	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading "	Limit " †	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2486.800	46.53	2.9	32.7	10.93	54.0	7.5	H	155	170
2488.022	46.52	2.9	32.6	10.95	54.0	7.5	H	155	150
4960.500	35.21	-33.4	34.5	34.09	54.0	18.8	H	155	20
7440.000	37.88	-31.8	36.0	33.62	54.0	16.1	H	155	180
9919.500	40.64	-29.9	37.4	33.16	54.0	13.4	H	155	202
12400.500	44.03	-29.5	39.1	34.40	54.0	10.0	H	155	8

GFSK 2402MHz-Peak

Frequency (MHz)	Measurement Result " †	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading "	Limit " †	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.884	59.69	2.9	32.0	24.85	74.0	14.3	H	155	132
2388.060	60.08	2.9	32.0	25.22	74.0	13.9	H	155	154
4803.750	37.83	-32.9	34.5	36.18	74.0	36.2	V	155	88
7206.000	40.61	-31.6	36.1	36.14	74.0	33.4	H	155	110
9608.250	40.69	-30.0	37.0	33.73	74.0	33.3	V	155	110
12009.750	45.77	-29.8	39.3	36.30	74.0	28.2	V	155	88

GFSK 2440MHz-Peak

Frequency (MHz)	Measurement Result " †	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading "	Limit " †	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2375.000	47.89	-26.7	32.1	42.44	74.0	26.1	H	155	22
2516.200	48.53	-26.6	32.6	42.60	74.0	25.5	V	155	0
4881.750	39.64	-32.7	34.5	37.85	74.0	34.4	H	155	88
7323.000	40.48	-31.9	36.1	36.33	74.0	33.5	V	155	22
9764.250	41.20	-30.6	37.2	34.57	74.0	32.8	H	155	0
12204.750	44.85	-29.4	39.2	35.06	74.0	29.1	V	155	44

GFSK 2480MHz-Peak

Frequency (MHz)	Measurement Result " †	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading "	Limit " †	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2489.396	59.69	2.9	32.6	24.15	74.0	14.3	H	155	176
2490.312	59.81	2.9	32.6	24.30	74.0	14.2	H	155	154
4959.750	37.89	-33.4	34.5	36.76	74.0	36.1	V	155	22
7440.000	40.46	-31.8	36.0	36.20	74.0	33.5	V	155	176
9920.250	44.82	-29.9	37.4	37.35	74.0	29.2	H	155	198
12399.750	46.44	-29.5	39.1	36.81	74.0	27.6	H	155	0

Conclusion: PASS**Test graphs as below:**

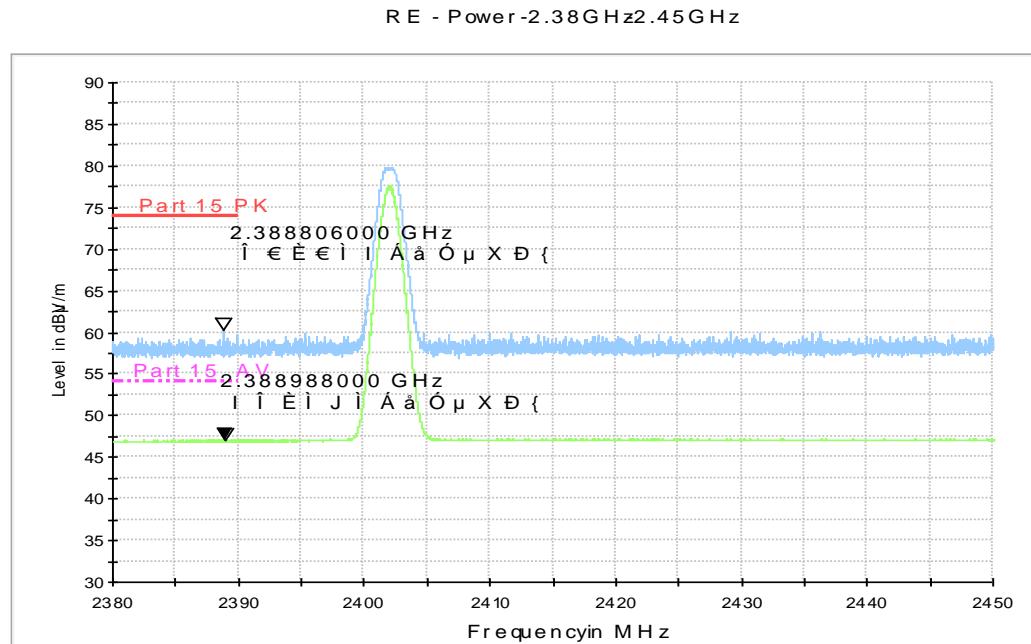


Fig18. Transmitter Spurious Emission Radiated(Power): GFSK Low channel

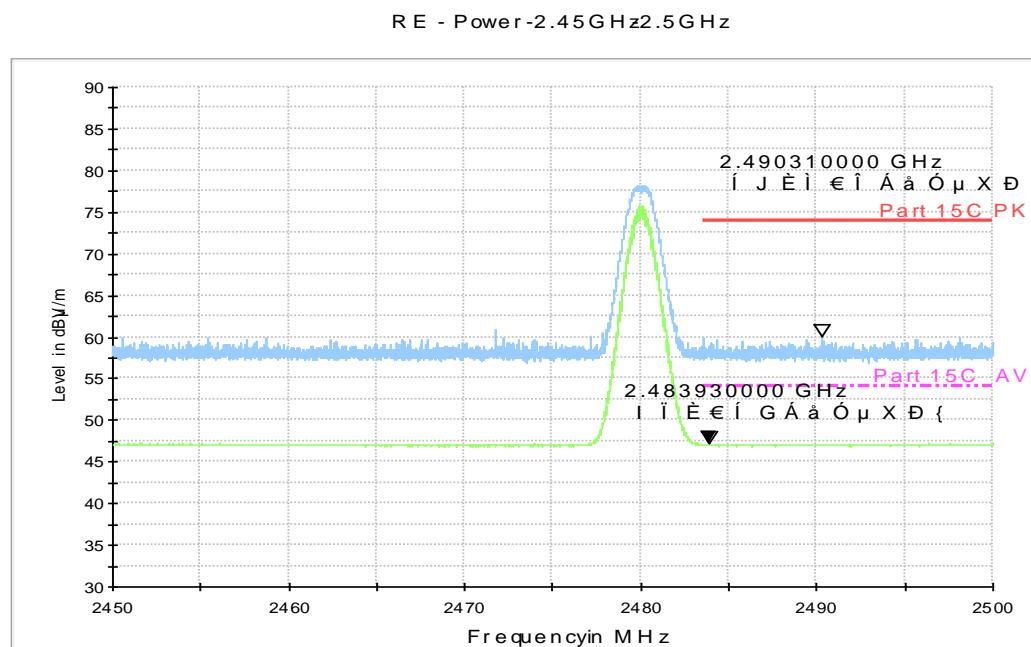


Fig19. Transmitter Spurious Emission Radiated(Power): GFSK high channel

A.6. 6dB Bandwidth

Method of Measurement:

The measurement is made according to ANSI C63.10 clause 11.8.1

1. Set RBW = 100 kHz
2. Set the video bandwidth (VBW) = 300 kHz.
3. Detected σ = Peak.
4. Trace mode = max hold.
5. Sweep = auto coupling.
6. All other trace controls are disabled.
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 separated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)	>= 500kHz

Measurement Results:

For GFSK

Channel No.	Frequency (MHz)	6dB Bandwidth (kHz)	Conclusion
0	2402	Fig20	P
19	2440	Fig21	P
39	2480	Fig22	P

Conclusion: PASS

Test graphs as below:

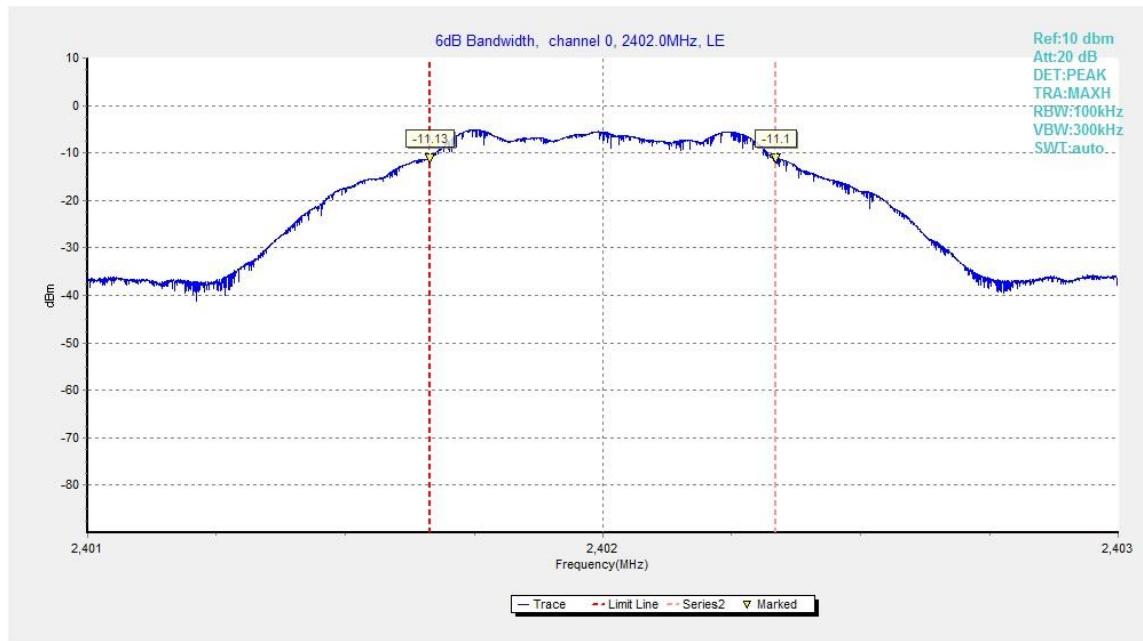


Fig20. 6dB Bandwidt h: GFSK, 2402 MHz

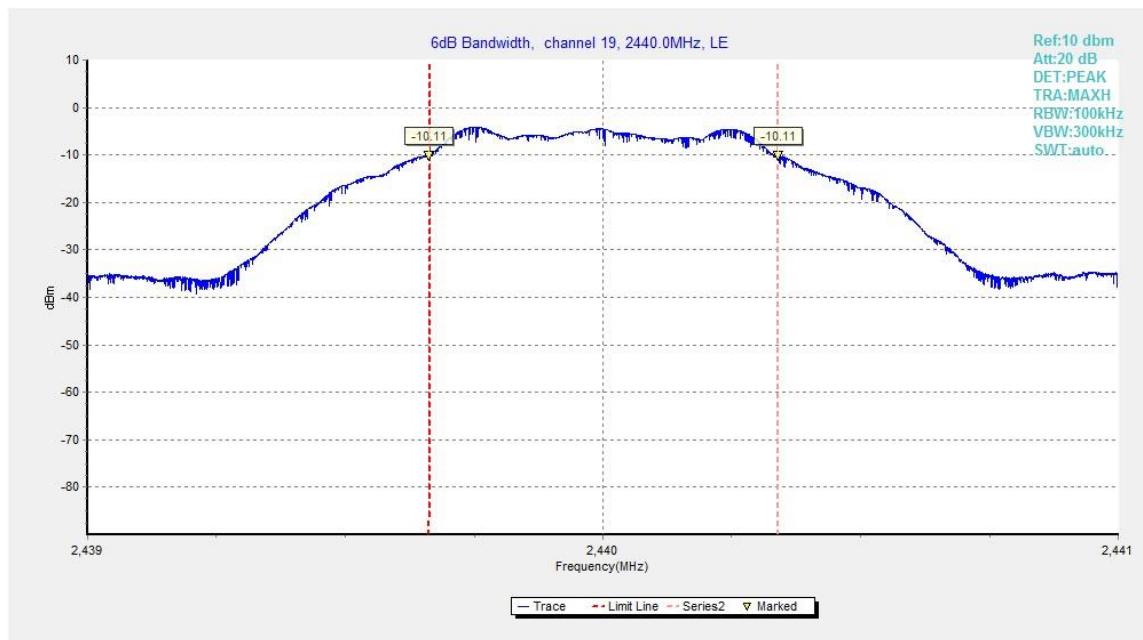


Fig21. 6dB Bandwidt h: GFSK, 2440 MHz

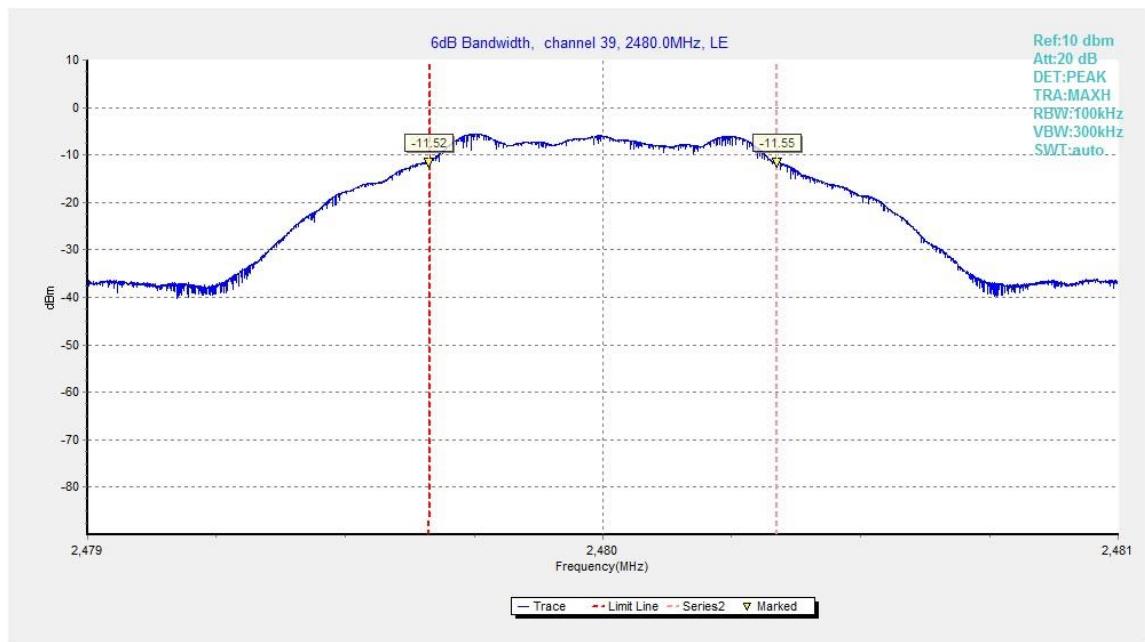


Fig22. 6dB Bandwidth: GFSK, 2480 MHz

A.7. Maximum Power Spectral Density Level

Method of Measurement:

The measurement is made according to ANSI C63.10 clause 11.10.2

1. Set the RBW to 3 kHz
2. Set the VSWR to 10 dB
3. Set the span to 20 times the DTS bandwidth.
4. Detected $\sigma = \text{peak}$.
5. Sweep time = auto coupling.
6. Trace mode = max hold.
7. Allow trace to settle until stable.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(e)	<=8.0dBm/3kHz

Measurement Results:

For GFSK

Channel No.	Frequency (MHz)	Maximum Power Spectral Density Level(dBm/3kHz)		Conclusion
0	2402	Fig23	-20.07	P
19	2440	Fig24	-19.15	P
39	2480	Fig25	-20.58	P

Test graphs as below:

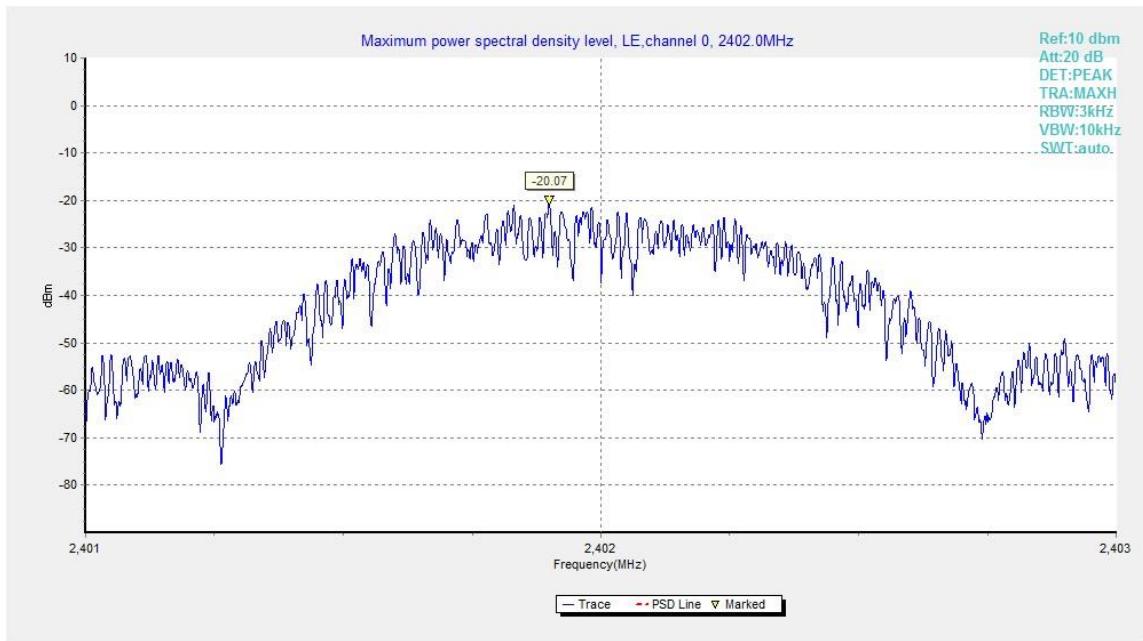


Fig23. MaximumPower Spectral Density Level Function: GFSK, 2402 MHz

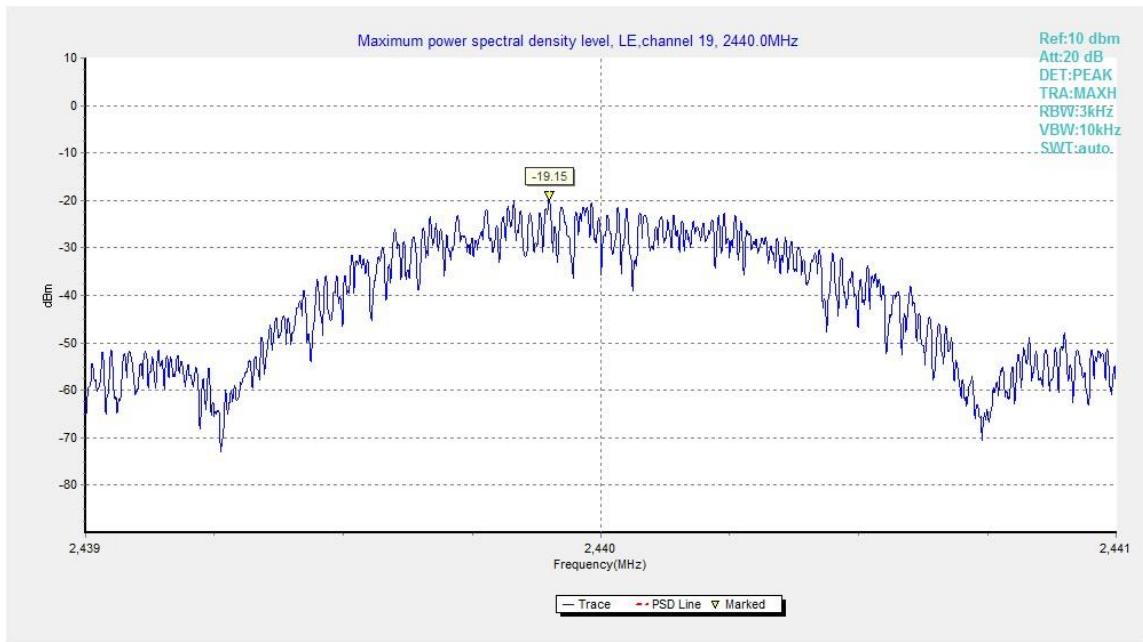


Fig24. MaximumPower Spectral Density Level Function: GFSK, 2440 MHz

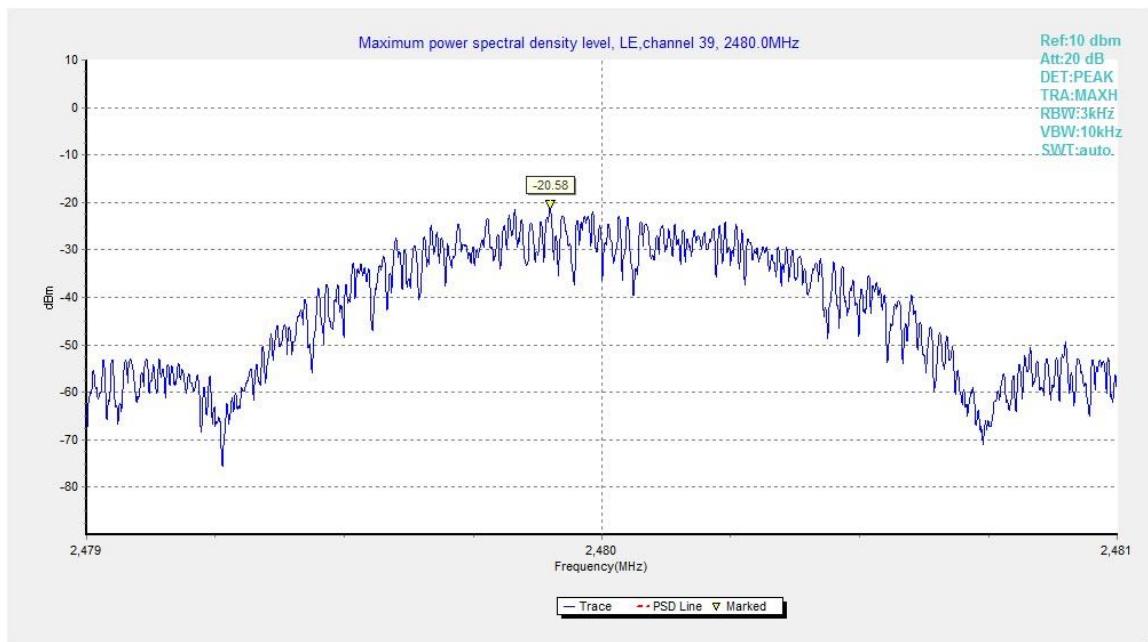


Fig25. Maximum Power Spectral Density Level Function: GFSK, 2480 MHz



Bluetooth (Average Limit)

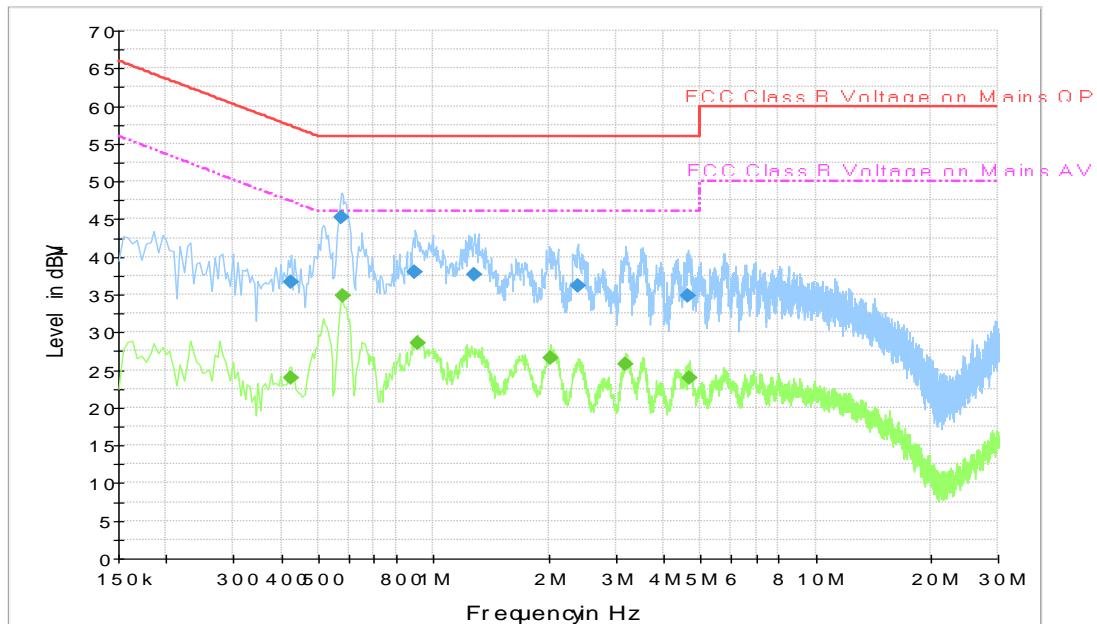
Frequency range (MHz)	Average Limit (dBaV)	Condition
0.15 to 0.5	56 to 46	P
0.5 to 5	46	
5 to 30	50	

NOTE: The limit decreases linearly with the frequency from 0.15 MHz to 0.5 MHz

The measurement is made according to ANSI C63.10

Conclusion: PASS

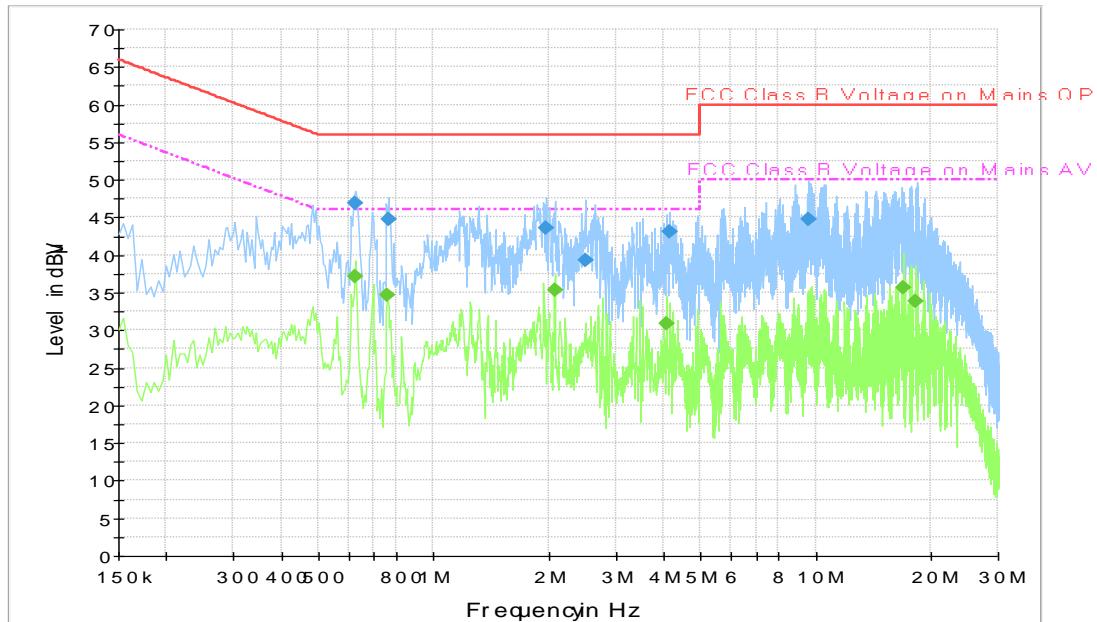
Test graphs as below:

Traffic Set1:

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.424500	36.7	2000.0	9.000	On	L1	19.9	20.7	57.4
0.573000	45.2	2000.0	9.000	On	L1	19.9	10.8	56.0
0.897000	38.0	2000.0	9.000	On	L1	19.7	18.0	56.0
1.279500	37.6	2000.0	9.000	On	L1	19.6	18.4	56.0
2.382000	36.1	2000.0	9.000	On	L1	19.7	19.9	56.0
4.632000	34.8	2000.0	9.000	On	L1	19.6	21.2	56.0

Final Result 2

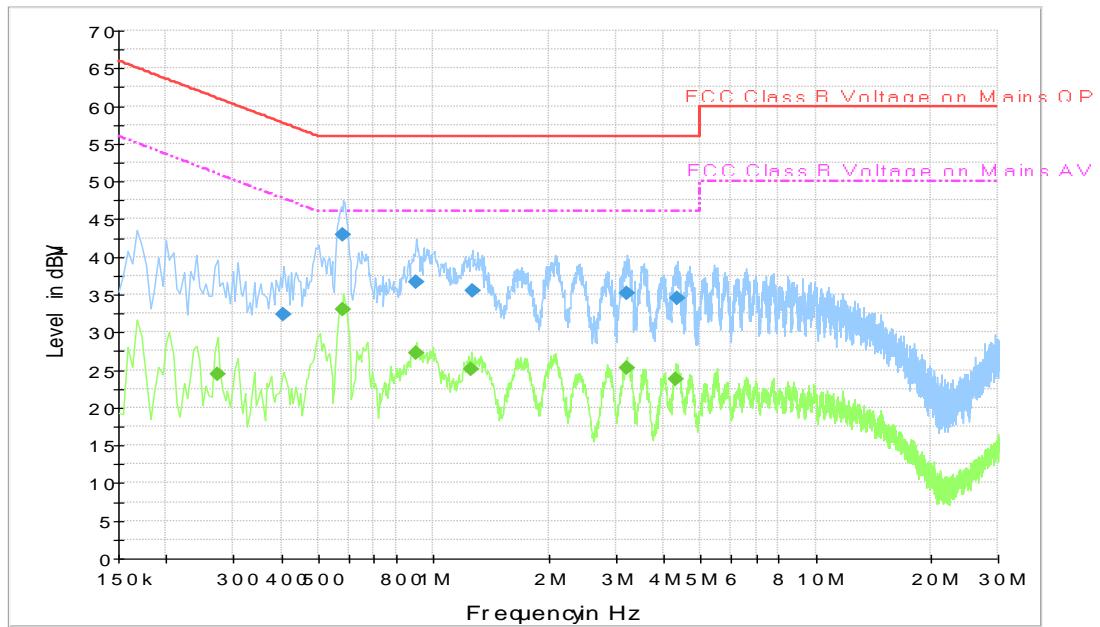
Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.424500	24.0	2000.0	9.000	On	L1	19.9	23.4	47.4
0.577500	34.9	2000.0	9.000	On	L1	19.9	11.1	46.0
0.906000	28.6	2000.0	9.000	On	L1	19.7	17.4	46.0
2.022000	26.5	2000.0	9.000	On	L1	19.7	19.5	46.0
3.187500	25.8	2000.0	9.000	On	L1	19.7	20.2	46.0
4.690500	24.0	2000.0	9.000	On	L1	19.6	22.0	46.0

Traffic Set2:

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.622500	46.9	2000.0	9.000	On	L1	19.8	9.1	56.0
0.762000	44.7	2000.0	9.000	On	L1	19.7	11.3	56.0
1.977000	43.5	2000.0	9.000	On	L1	19.7	12.5	56.0
2.494500	39.3	2000.0	9.000	On	L1	19.7	16.7	56.0
4.146000	43.1	2000.0	9.000	On	L1	19.6	12.9	56.0
9.613500	44.7	2000.0	9.000	On	L1	19.8	15.3	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.627000	37.1	2000.0	9.000	On	L1	19.8	8.9	46.0
0.757500	34.7	2000.0	9.000	On	L1	19.8	11.3	46.0
2.076000	35.3	2000.0	9.000	On	L1	19.7	10.7	46.0
4.078500	30.9	2000.0	9.000	On	L1	19.6	15.1	46.0
17.007000	35.7	2000.0	9.000	On	L1	20.0	14.3	50.0
18.330000	33.8	2000.0	9.000	On	L1	20.0	16.2	50.0

Idle Set1:

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406500	32.4	2000.0	9.000	On	L1	19.9	25.3	57.7
0.582000	43.0	2000.0	9.000	On	L1	19.9	13.0	56.0
0.901500	36.7	2000.0	9.000	On	L1	19.7	19.3	56.0
1.266000	35.5	2000.0	9.000	On	L1	19.6	20.5	56.0
3.205500	35.1	2000.0	9.000	On	L1	19.7	20.9	56.0
4.348500	34.6	2000.0	9.000	On	L1	19.6	21.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.271500	24.4	2000.0	9.000	On	L1	19.8	26.7	51.1
0.582000	33.1	2000.0	9.000	On	L1	19.9	12.9	46.0
0.901500	27.2	2000.0	9.000	On	L1	19.7	18.8	46.0
1.261500	25.2	2000.0	9.000	On	L1	19.6	20.8	46.0
3.214500	25.2	2000.0	9.000	On	L1	19.7	20.8	46.0
4.308000	23.8	2000.0	9.000	On	L1	19.6	22.2	46.0



ANNEX E: Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT

Beijing
China

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2016-09-29 through 2017-09-30

Effective Dates



Donna S. Haman
For the National Voluntary Laboratory Accreditation Program

END OF REPORT