TEST REPORT

No. I20N02496-BLE

TCL Communication Ltd.

Tablet PC

Model Name: 8094X

with

Hardware Version: PIO

Software Version: 2C51

FCC ID: 2ACCJB140

Issued Date: 2020-09-30

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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1. Summary of Test Report

1.1. Test Items

Description	Tablet PC
Model Name	8094X
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part15-2019; ANSI C63.10-2013

1.3. Test Result

Pass

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date:	2020-09-27
Testing End Date:	2020-09-29

1.6. Signature

Lin Kanfeng

(Prepared this test report)

Tang Weisheng

(Reviewed this test report)

Zhang Bojun

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
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E-Mail	zhizhou.gong@tcl.com
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2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person	Gong Zhizhou
E-Mail	zhizhou.gong@tcl.com
Telephone:	0086-755-36611722
Fax:	0086-755-36612000-81722

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

3.1. About EUT

Description	Tablet PC
Model Name	8094X
Brand Name	/
Frequency Range	2400MHz~2483.5MHz
Type of Modulation	GFSK
Number of Channels	40
Antenna Type	Integrated
Antenna Gain	0.8dBi
Power Supply	3.9V DC by Battery
FCC ID	2ACCJB140
Condition of EUT as received	No abnormality in appearance

Note: The EUT model 8094X (FCC ID: 2ACCJB140) is a variant product of 8094M (FCC ID: 2ACCJB131), according to the declaration of changes provided by applicant and FCC KDB publication 484596 D01, spot check measurement were performed on this device, all the test results are derived from test report I20N01660-BLE. Please refer ANNEX A for reference data, and ANNEX B for detail spot check verification data, the spot check test results are consistent with basic model.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receive Date
EUT1	358496890001132	PIO	2C51	2020-07-22
EUT2	358496890001116	PIO	2C51	2020-07-22

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Battery	CAC5360006C1
AE2	Charger	CBA0059AGAC5

AE1

Model	TLp053C1
Manufacturer	BYD
Capacity	5500mAh
Nominal Voltage	3.85v

AE2

Model	UC13US
Manufacturer	PUAN

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

3.4. General Description

The Equipment under Test (EUT) is a model of Tablet PC with integrated antenna and battery.
It consists of normal options: Lithium Battery and Charger.
Manual and specifications of the EUT were provided to fulfil the test.
Samples undergoing test were selected by the client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the 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 Part15	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 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz	2019
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35˚C

Relative Humidity: 20~75%

5.2. Test Results

No	Test cases	Sub-clause of Part 15C	Verdict
0	Antenna Requirement	15.203	**P**
1	Maximum Peak Output Power	15.247 (b)	**P**
2	Peak Power Spectral Density	15.247 (e)	**P**
3	6dB Bandwidth	15.247 (a)	**P**
4	Band Edges Compliance	15.247 (d)	**P**
5	Transmitter Spurious Emission - Conducted	15.247 (d)	**P**
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	**P**
7	AC Power line Conducted Emission	15.107, 15.207	**P**

See **ANNEX A** for details.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2021-01-15	1 year
2	Power Sensor	U2021XA	MY55430013	Agilent	2021-01-15	1 year
3	Data Acquisiton	U2531A	TW55443507	Agilent	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	LISN	ESH2-Z5	100196	R&S	2021-01-02	1 year
2	Test Receiver	ESCI	100701	R&S	2021-08-05	1 year
3	Loop Antenna	HLA6120	35779	TESEQ	2022-05-01	3 year
4	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2021-02-16	3 year
5	Horn Antenna	3117	00066585	ETS-Lindgren	2022-03-04	3 year
6	Test Receiver	ESR7	101675	R&S	2021-07-17	1 year
7	Spectrum Analyzer	FSP 40	100378	R&S	2020-12-12	1 year
8	Chamber	FACT5-2.0	4166	ETS-Lindgren	2021-05-12	3 year
9	Antenna	QSH-SL-1 8-26-S-20	17013	Q-par	2021-01-14	3 year
10	Antenna	QSH-SL-2 6-40-K-20	17014	Q-par	2021-01-10	3 year

Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	8.53.0
3	EMC32	Rohde & Schwarz	10.01.00

EUT is engineering software provided by the customer to control the transmitting signal.
The EUT was programmed to be in continuously transmitting mode.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

7. Laboratory Environment

Semi-anechoic chamber

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

Fully-anechoic chamber

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

8. Measurement Uncertainty

Test Name	Uncertainty *(k=2)*	
1. RF Output Power - Conducted	1.32dB	
2. Power Spectral Density - Conducted	2.32dB	
3. Occupied channel bandwidth - Conducted	66Hz	
4. Transmitter Spurious Emission - Conducted	30MHz≤f≤1GHz	1.41dB
	1GHz≤f≤7GHz	1.92dB
	7GHz≤f≤13GHz	2.31dB
	13GHz≤f≤26GHz	2.61dB
5. Transmitter Spurious Emission - Radiated	9kHz≤f≤30MHz	1.70dB
	30MHz≤f≤1GHz	4.90dB
	1GHz≤f≤18GHz	4.60dB
	18GHz≤f≤40GHz	4.10dB
6. AC Power line Conducted Emission	150kHz≤f≤30MHz	3.00dB

ANNEX A: Detailed Test Results

A.0 Antenna requirement

Measurement Limit:

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Conclusion: The Directional gains of antenna used for transmitting is 0.8dBi. The RF transmitter uses an integrate antenna without connector.

A.1 Maximum Peak Output Power

Method of Measurement: See ANSI C63.10-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter.

Measurement Limit:

Standard	Limit (dBm)	E.I.R.P Limit (dBm)
FCC CRF Part 15.247 (b)	< 30	< 36

Measurement Results:

LE-1M

Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)	E.I.R.P (dBm)	Conclusion
GFSK	2402 (CH0)	-3.72	-2.92	**P**
	2440 (CH19)	-2.89	-2.09	**P**
	2480 (CH39)	-3.50	-2.70	**P**

Conclusion: Pass

A.2 Peak Power Spectral Density

Method of Measurement: See ANSI C63.10-clause 11.10.2

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247 (e)	< 8 dBm/3 kHz

Measurement Results:

Mode	Frequency (MHz)	Peak Power Spectral Density (dBm)		Conclusion
LE-1M	2402 (CH0)	Fig.1	-19.42	P
	2440 (CH19)	Fig.2	-18.50	P
	2480 (CH39)	Fig.3	-19.43	P

See below for test graphs.

Conclusion: PASS

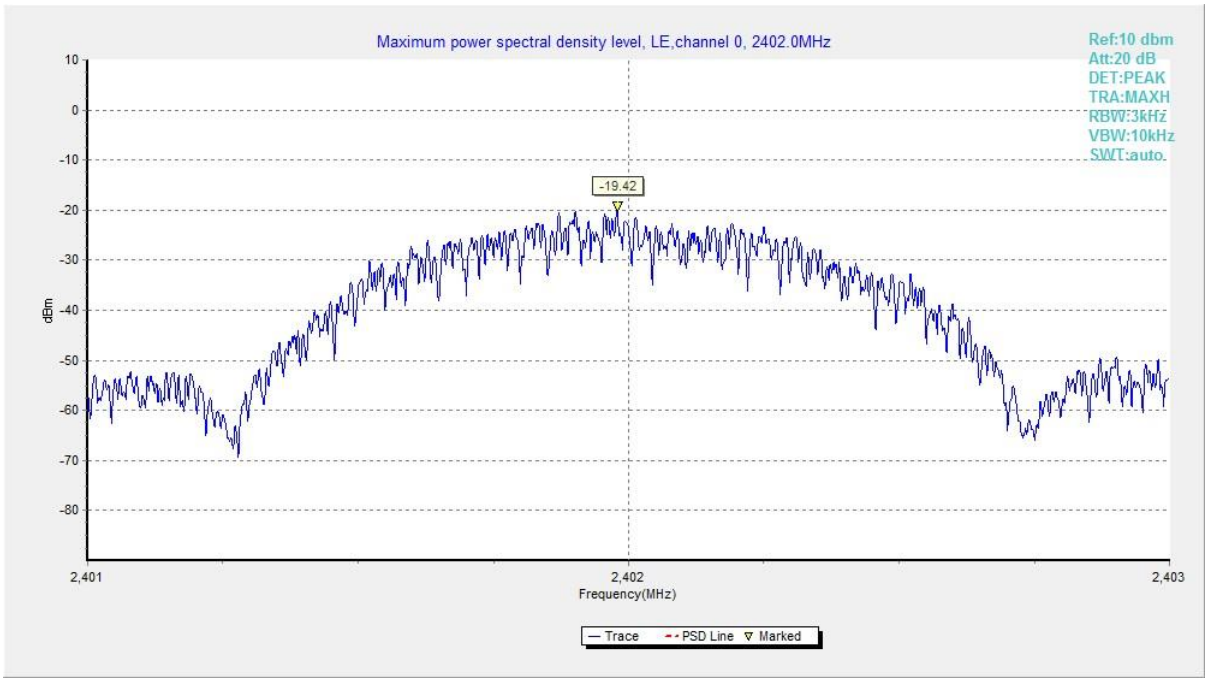

Fig.1 Power Spectral Density (Ch 0), LE 1M

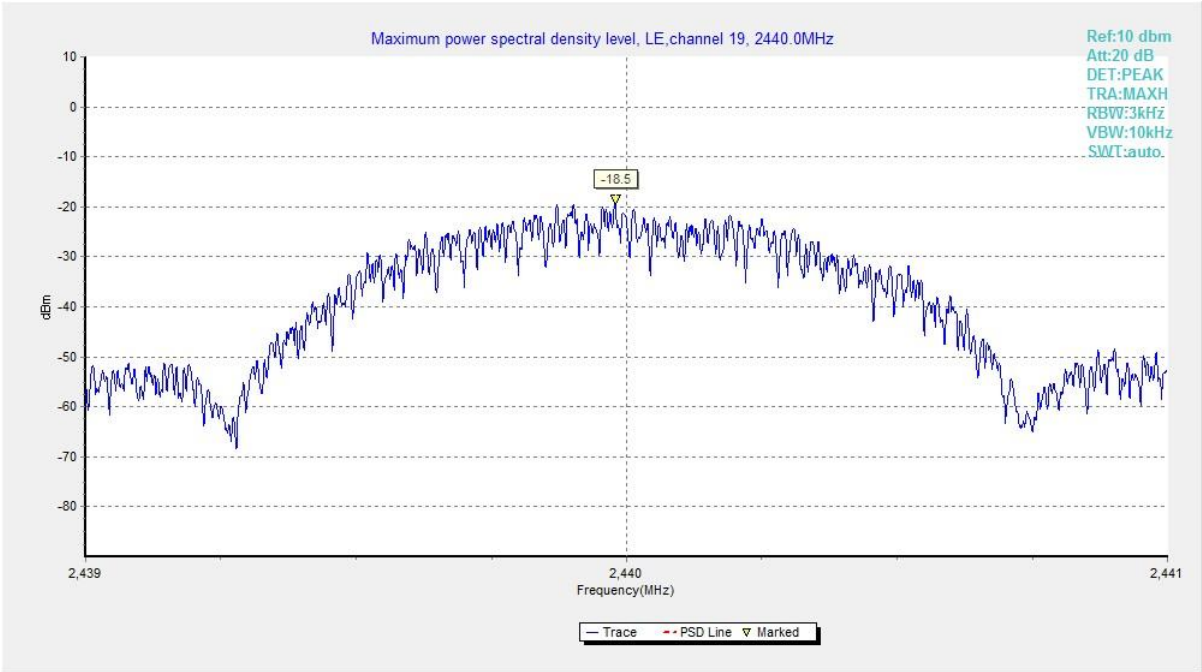

Fig.2 Power Spectral Density (Ch 19), LE 1M

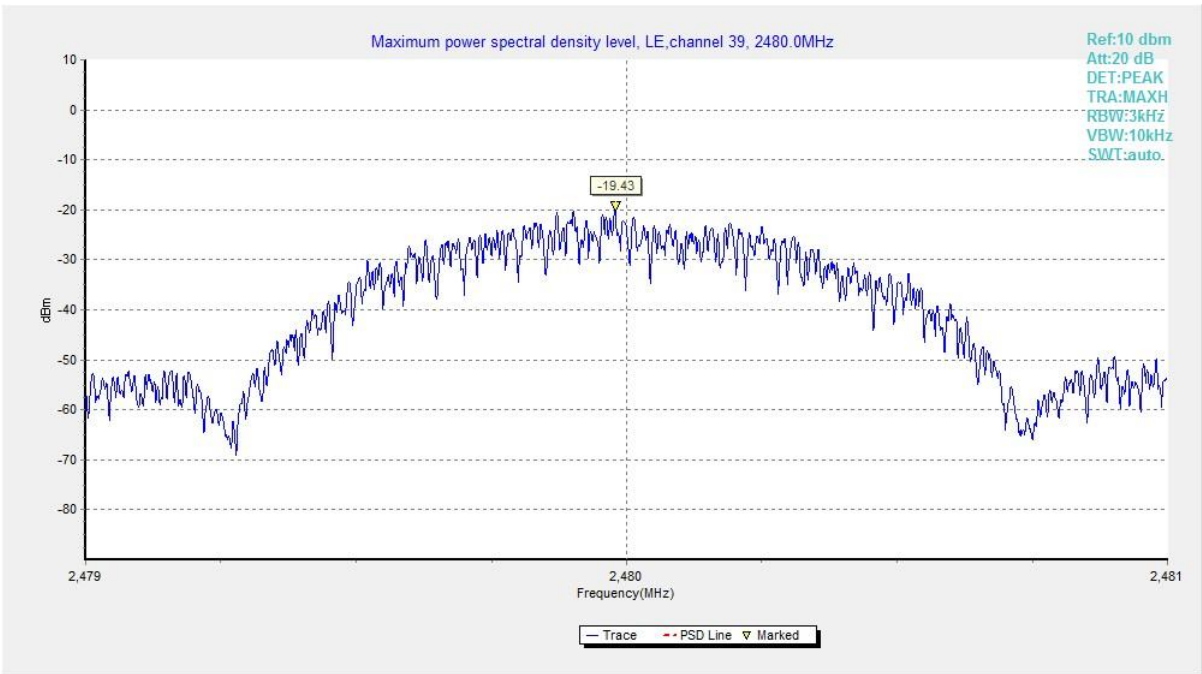

Fig.3 Power Spectral Density (Ch 39), LE 1M

A.3 6dB Bandwidth

Measurement Limit:

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

Measurement Result:

Mode	Frequency (MHz)	Test Results (kHz)		Conclusion
LE-1M	2402 (CH0)	Fig.4	705.50	**P**
	2440 (CH19)	Fig.5	705.00	**P**
	2480 (CH39)	Fig.6	705.00	**P**

See below for test graphs.

Conclusion: PASS

Fig.4 6dB Bandwidth (Ch 0), LE 1M

Fig.5 6dB Bandwidth (Ch 19), LE 1M

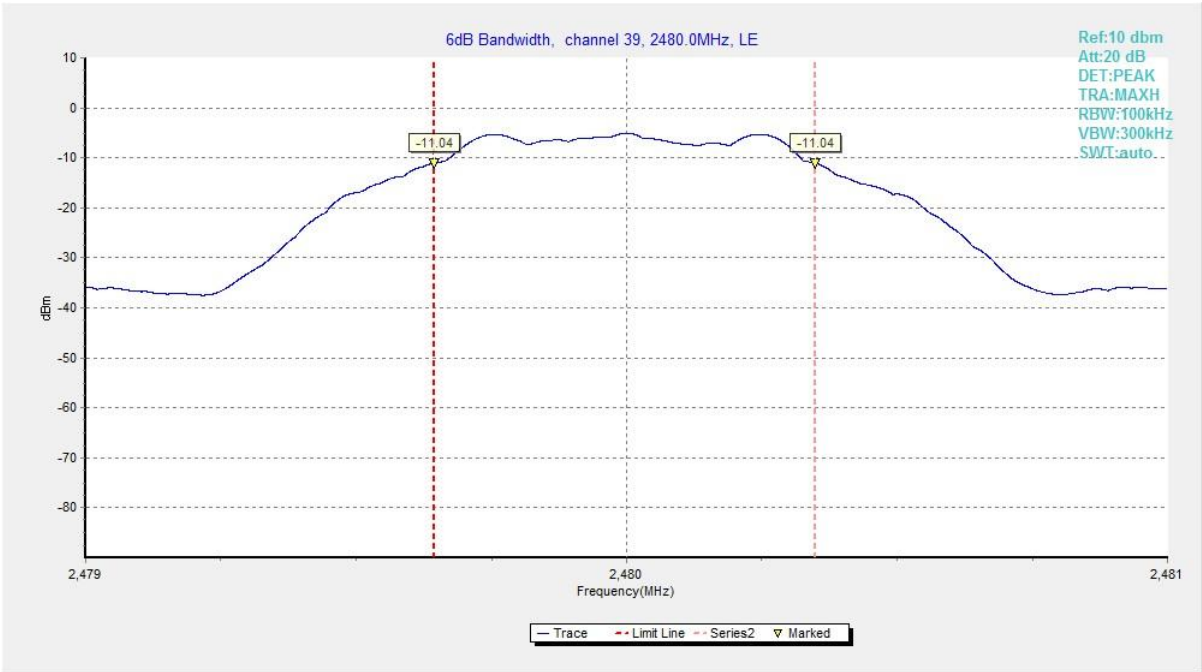

Fig.6 6dB Bandwidth (Ch 39), LE 1M

A.4 Band Edges Compliance

Measurement Limit:

Standard	Limit (dB)
FCC 47 CFR Part 15.247 (d)	> 20

Measurement Result:

Mode	Frequency (MHz)	Test Results (dB)		Conclusion
LE-1M	2402 (CH0)	Fig.7	58.58	**P**
	2480 (CH39)	Fig.8	59.85	**P**

See below for test graphs.

Conclusion: Pass

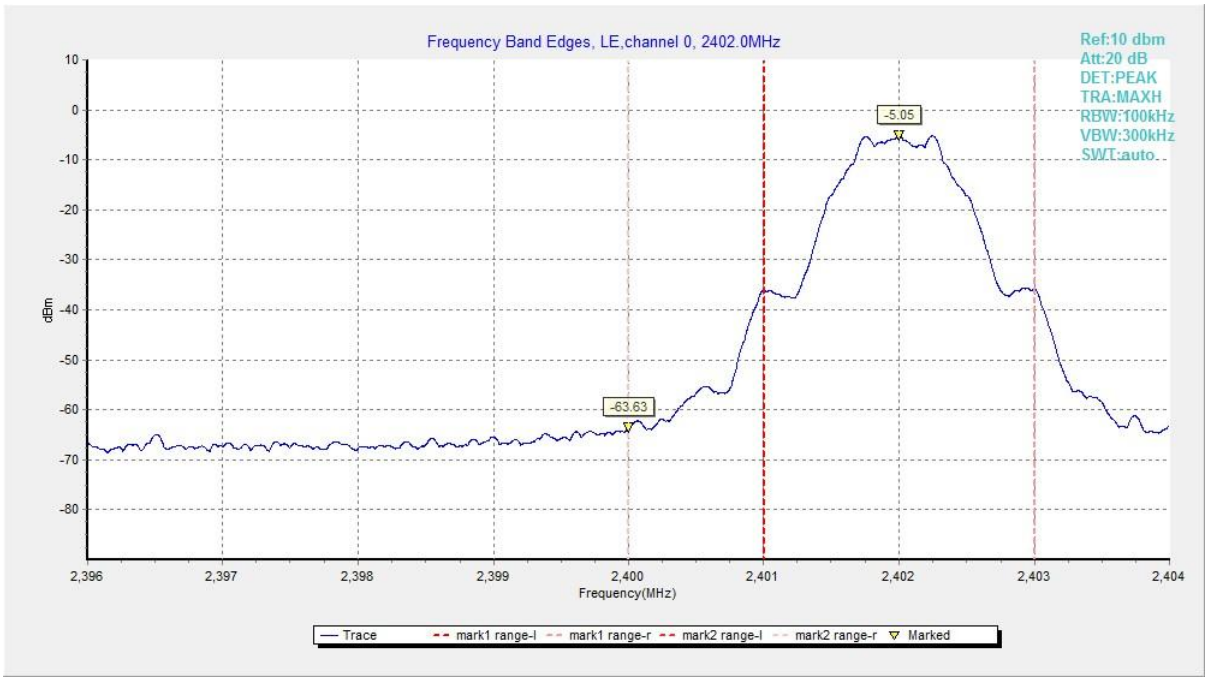

Fig.7 Band Edges (Ch 0), LE 1M

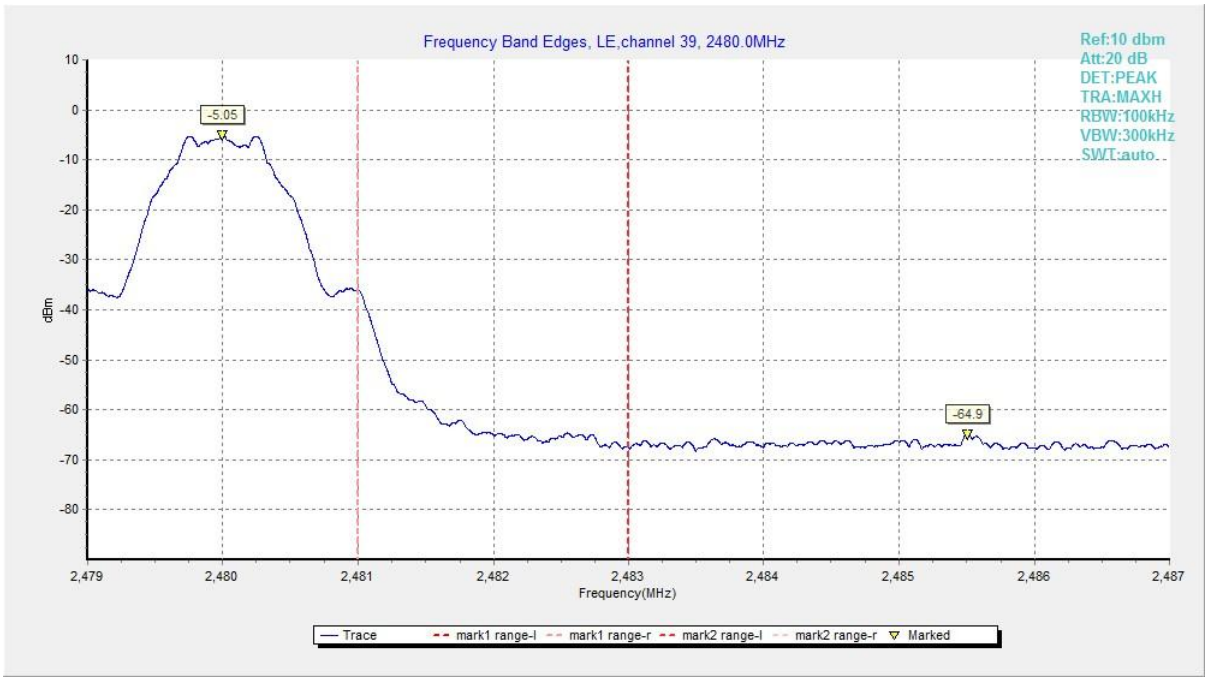

Fig.8 Band Edges (Ch 39), LE 1M

A.5 Transmitter Spurious Emission - Conducted

Measurement Limit:

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

Measurement Results:

MODE	Channel	Frequency Range	Test Results	Conclusion
LE-1M	0	2.402 GHz	Fig.9	**P**
		1 GHz ~ 3 GHz	Fig.10	**P**
		3 GHz ~ 10 GHz	Fig.11	**P**
	19	2.440 GHz	Fig.12	**P**
		1 GHz ~ 3 GHz	Fig.13	**P**
		3 GHz ~ 10 GHz	Fig.14	**P**
	39	2.480 GHz	Fig.15	**P**
		1 GHz ~ 3 GHz	Fig.16	**P**
		3 GHz ~ 10 GHz	Fig.17	**P**
	All channels	30 MHz ~ 1 GHz	Fig.18	**P**
		10 GHz ~ 26 GHz	Fig.19	**P**

See below for test graphs.

Conclusion: Pass

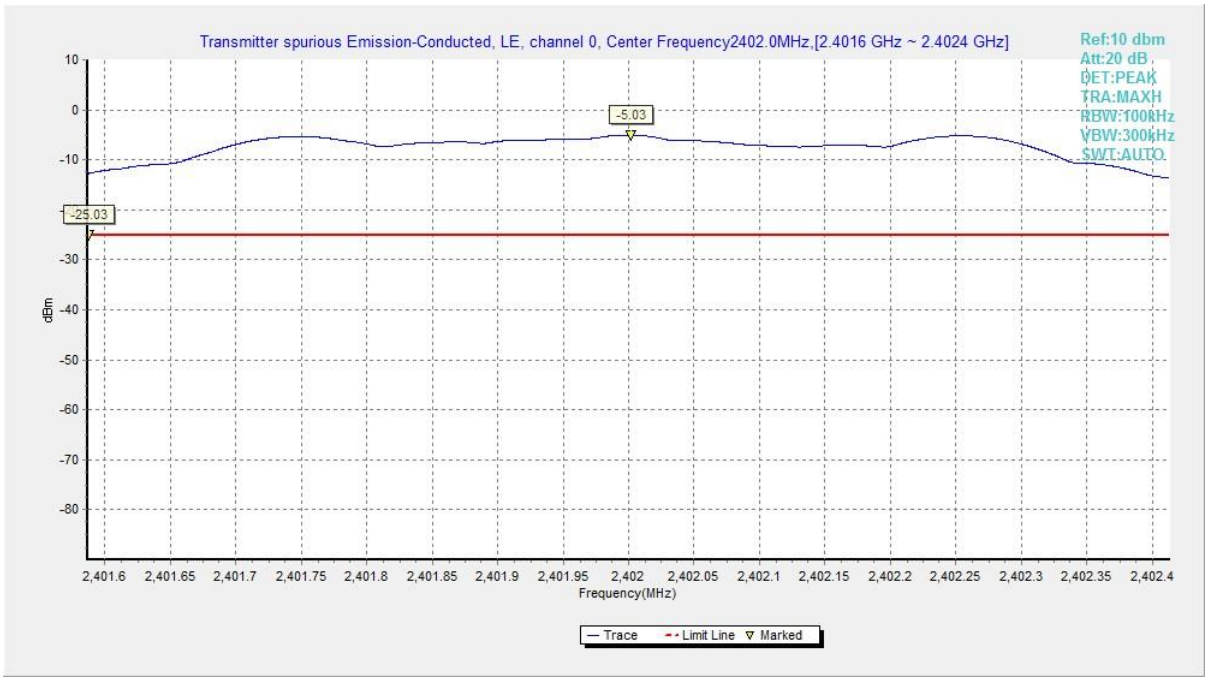

Fig.9 Conducted Spurious Emission (Ch0, Center Frequency), LE 1M

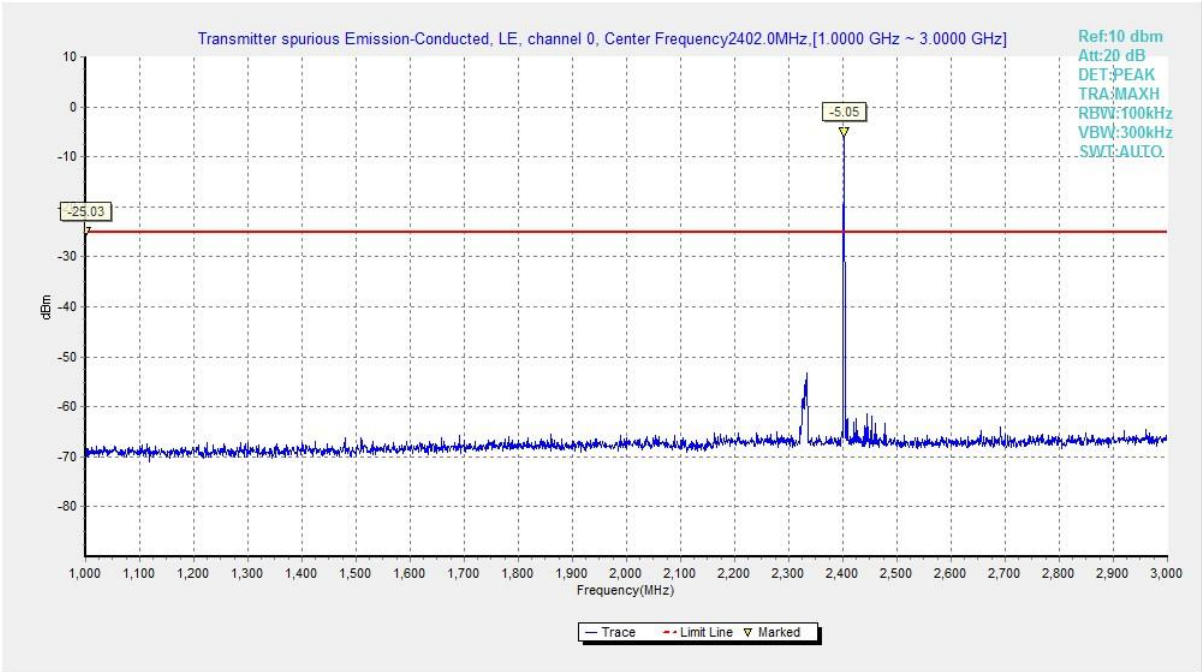

Fig.10 Conducted Spurious Emission (Ch0, 1 GHz-3 GHz), LE 1M

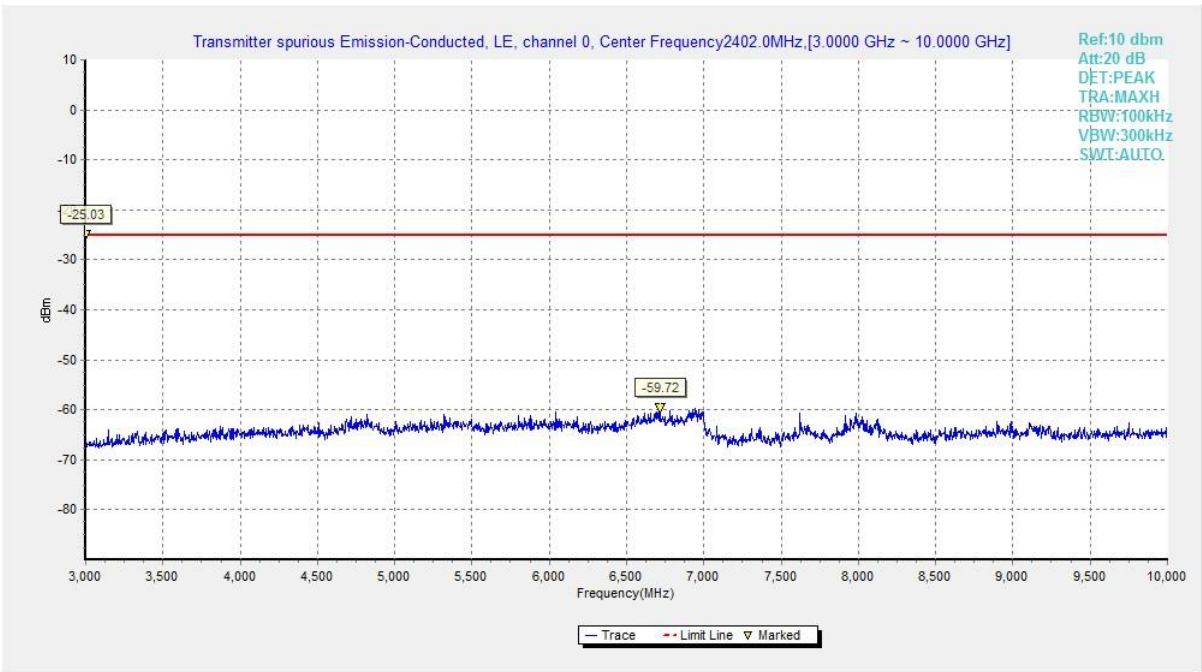

Fig.11 Conducted Spurious Emission (Ch0, 3 GHz-10 GHz), LE 1M

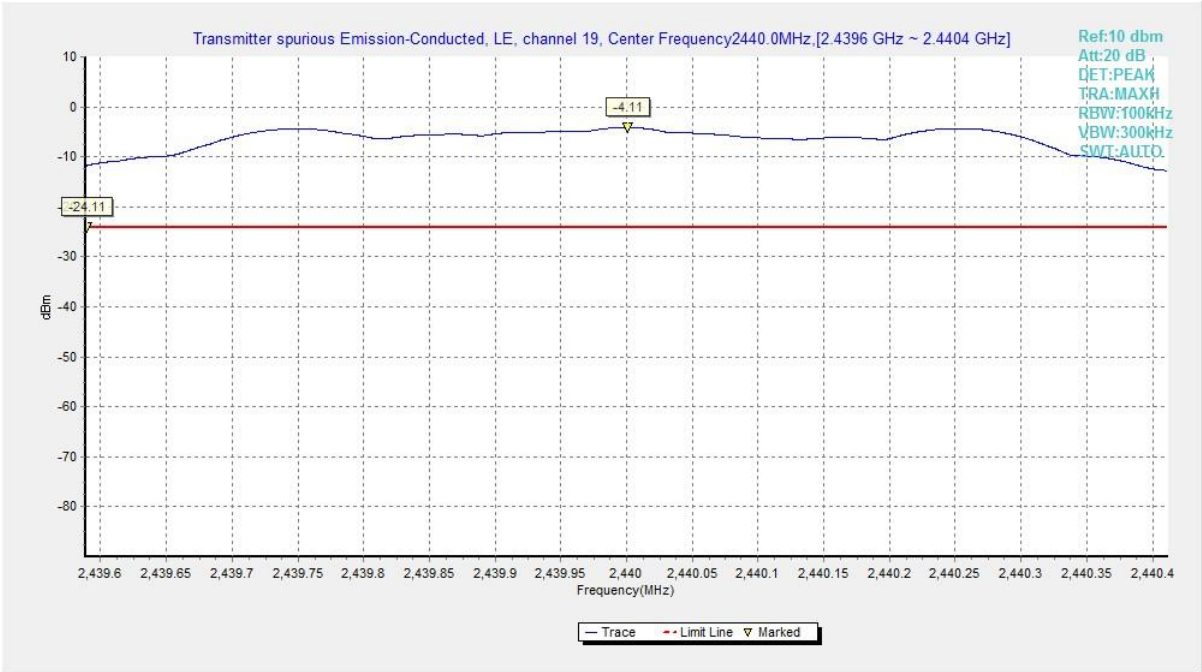

Fig.12 Conducted Spurious Emission (Ch19, Center Frequency), LE 1M

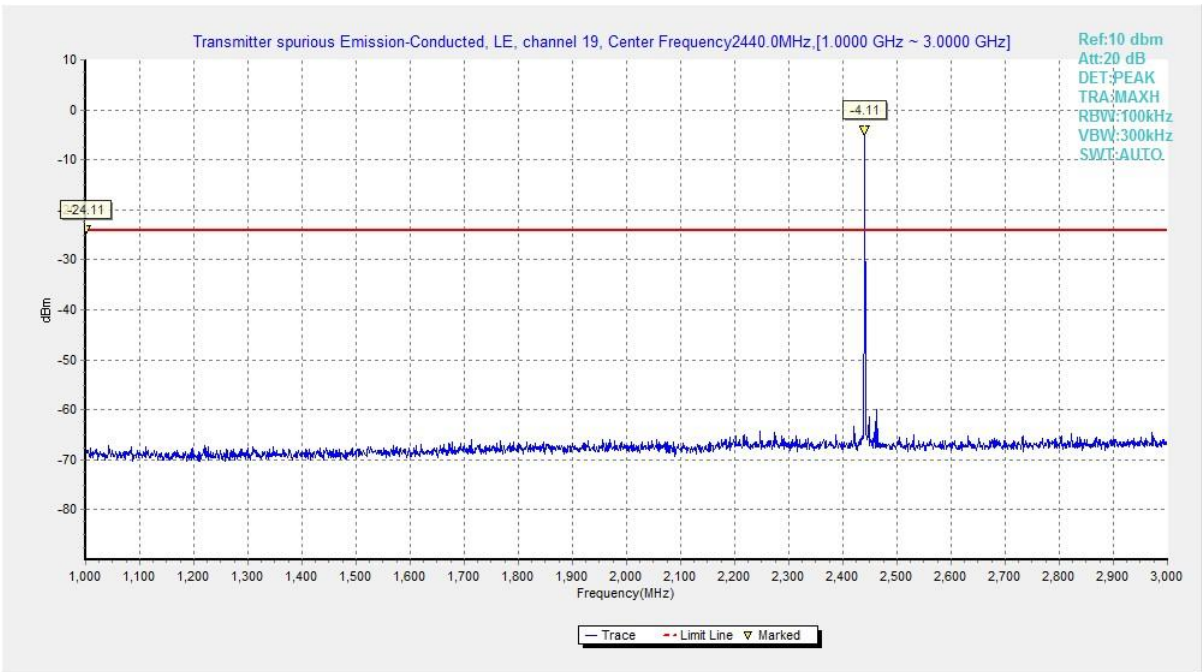

Fig.13 Conducted Spurious Emission (Ch19, 1 GHz-3 GHz), LE 1M

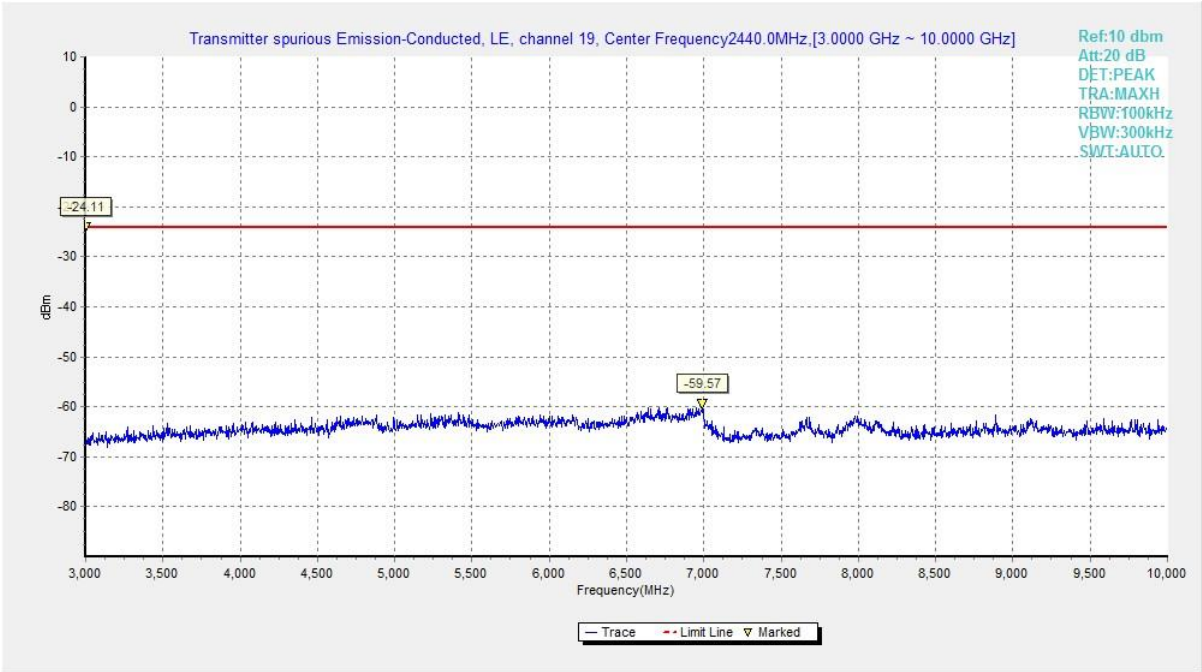

Fig.14 Conducted Spurious Emission (Ch19, 3 GHz-10 GHz), LE 1M

Fig.15 Conducted Spurious Emission (Ch39, Center Frequency), LE 1M

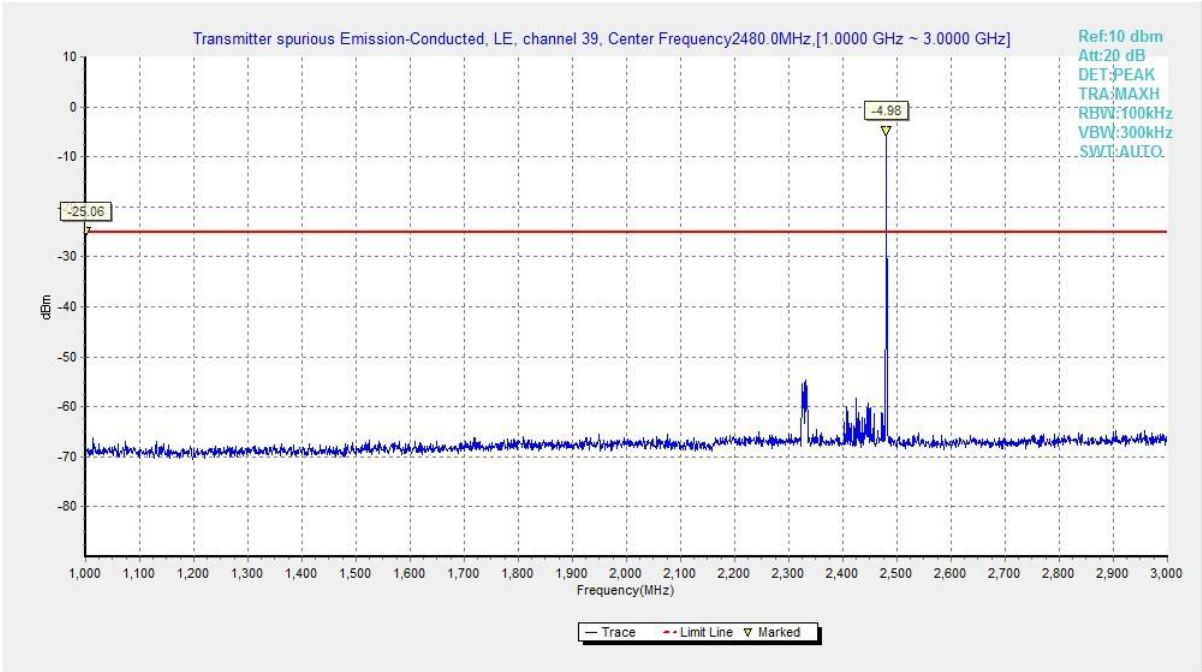

Fig.16 Conducted Spurious Emission (Ch39, 1 GHz-3 GHz), LE 1M

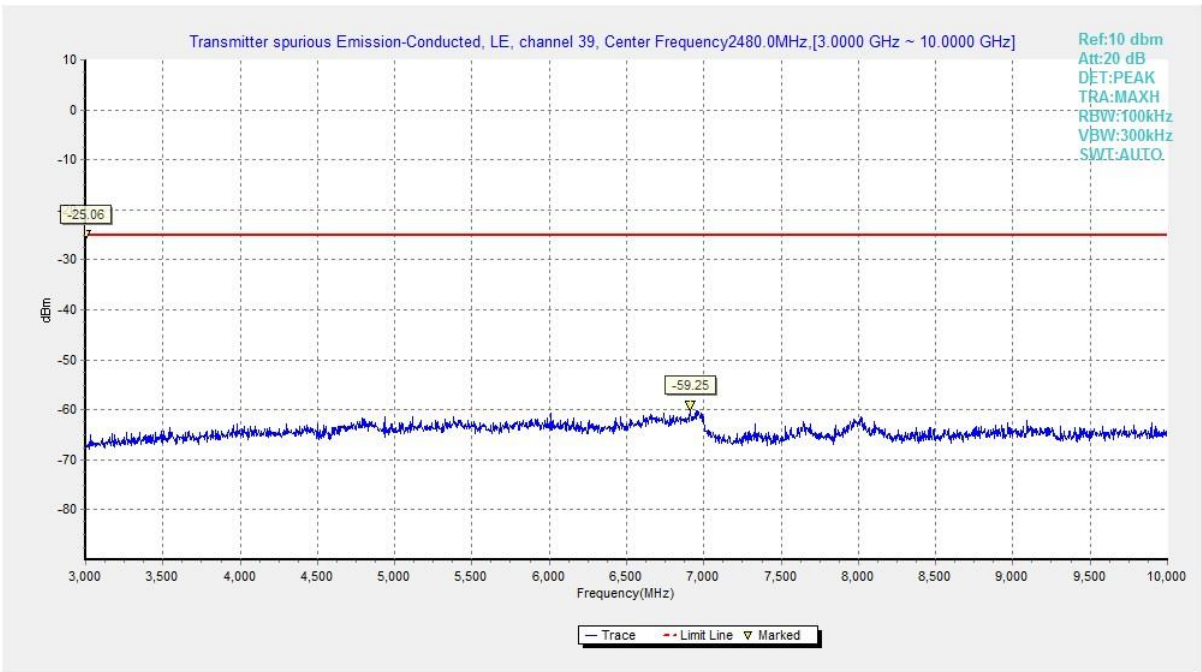

Fig.17 Conducted Spurious Emission (Ch39, 3 GHz-10 GHz), LE 1M

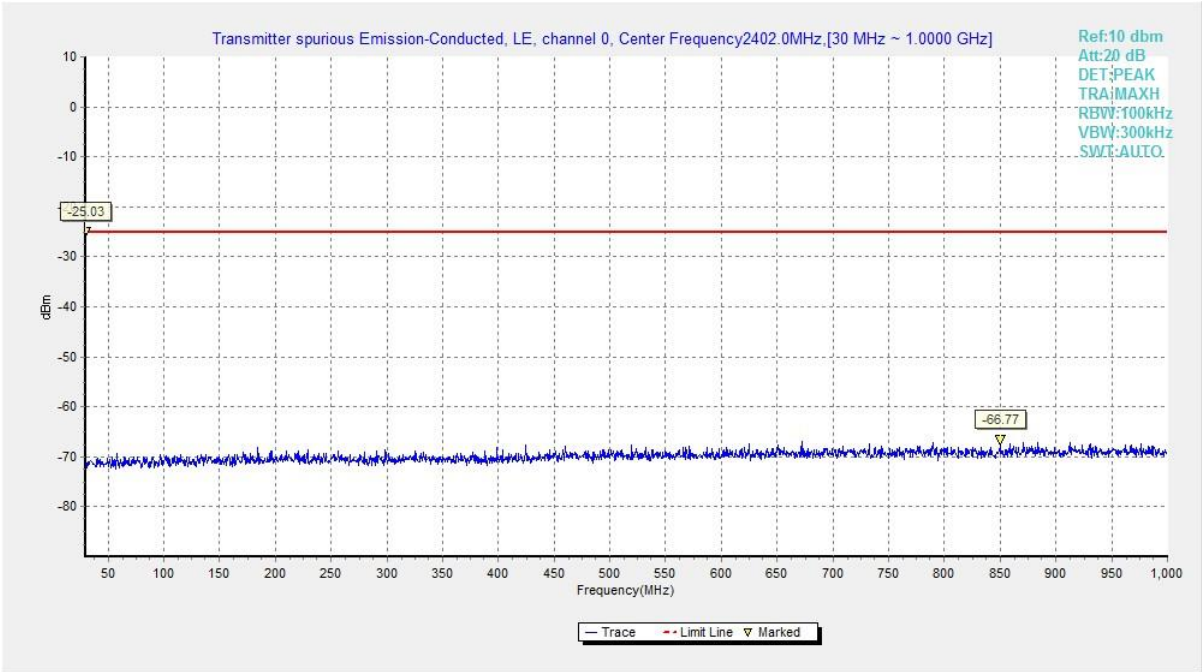

Fig.18 Conducted Spurious Emission (All channels, 30 MHz-1 GHz), LE 1M

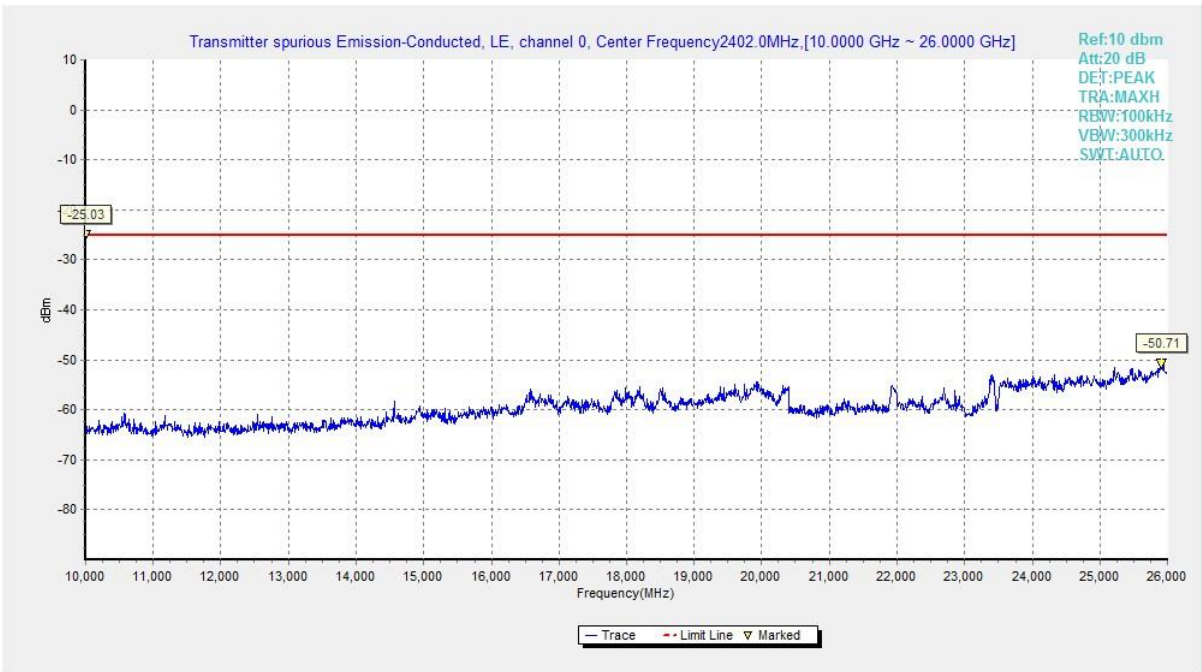

Fig.19 Conducted Spurious Emission (All channels, 10 GHz-26 GHz), LE 1M

A.6 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (μV/m)	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

Test Condition:

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30-1000	120kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Note: According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic. The measurement results include the horizontal polarization and vertical polarization measurements.

Measurement Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
LE-1M	0	1 GHz ~ 18 GHz	Fig.20	**P**
	19	9 kHz ~ 30 MHz	Fig.21	**P**
		30 MHz ~ 1 GHz	Fig.22	**P**
		1 GHz ~ 18 GHz	Fig.23	**P**
		18 GHz ~ 26.5 GHz	Fig.24	**P**
	39	1 GHz ~ 18 GHz	Fig.25	**P**
	Restricted Band(CH0)	2.38 GHz ~ 2.45 GHz	Fig.26	**P**
	Restricted Band(CH39)	2.45 GHz ~ 2.5 GHz	Fig.27	**P**

See below for test graphs.

Conclusion: Pass

LE-1M

GFSK CH0 (1-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
12611.250000	55.31	74.00	18.69	V	17
13224.500000	54.93	74.00	19.07	V	17
15549.000000	57.81	74.00	16.19	V	19
16284.500000	59.12	74.00	14.88	H	21
16577.750000	59.93	74.00	14.07	H	22
17714.750000	59.90	74.00	14.10	V	23

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
12427.750000	42.54	54.00	11.46	V	17
13249.000000	42.59	54.00	11.41	V	17
15572.500000	45.92	54.00	8.08	H	20
16265.250000	46.72	54.00	7.28	H	21
16628.000000	47.09	54.00	6.91	H	22
17895.250000	47.13	54.00	6.87	V	24

GFSK CH19 (1-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14013.250000	55.46	74.00	18.54	H	17
14569.500000	56.16	74.00	17.84	H	18
15564.750000	57.52	74.00	16.48	H	20
16286.250000	58.85	74.00	15.15	V	21
16886.000000	59.89	74.00	14.11	H	22
17692.250000	59.61	74.00	14.39	V	23

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14015.250000	42.90	54.00	11.10	V	17
14563.500000	44.03	54.00	9.97	H	18
15566.500000	45.69	54.00	8.31	H	20
16279.250000	46.79	54.00	7.21	H	21
16992.750000	47.03	54.00	6.97	V	23
17892.500000	47.25	54.00	6.75	V	24

GFSK CH39 (1-18GHz)

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
13967.250000	55.77	74.00	18.23	H	17
14591.500000	56.99	74.00	17.01	V	18
15564.750000	57.96	74.00	16.04	H	20
15665.750000	58.93	74.00	15.07	V	20
16808.500000	59.67	74.00	14.33	V	22
17897.500000	60.01	74.00	13.99	V	24

Frequency (MHz)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Corr. (dB)
14020.250000	42.96	54.00	11.04	V	17
14573.750000	44.12	54.00	9.88	H	18
15576.250000	45.65	54.00	8.35	H	20
16262.750000	46.75	54.00	7.25	V	21
16997.500000	47.09	54.00	6.91	V	23
17706.750000	47.12	54.00	6.88	H	23

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of “reference path loss”, and Antenna Factor, the gain of the preamplifier, the cable loss. P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result = P_{Mea} + Cable Loss + Antenna Factor - Gain of the preamplifier

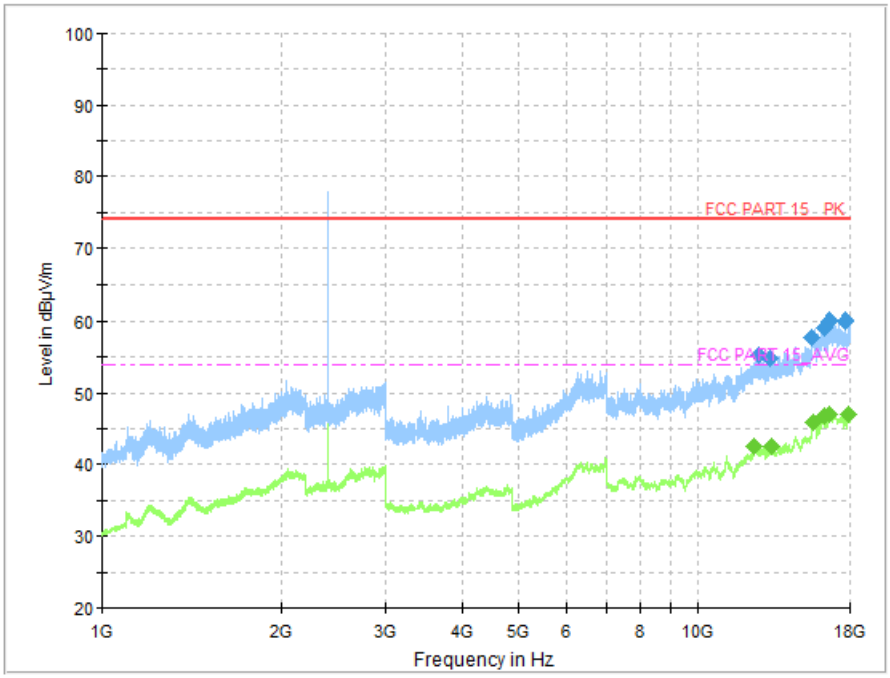

Fig.20 Radiated Spurious Emission (Ch0, 1 GHz - 18 GHz), 1M

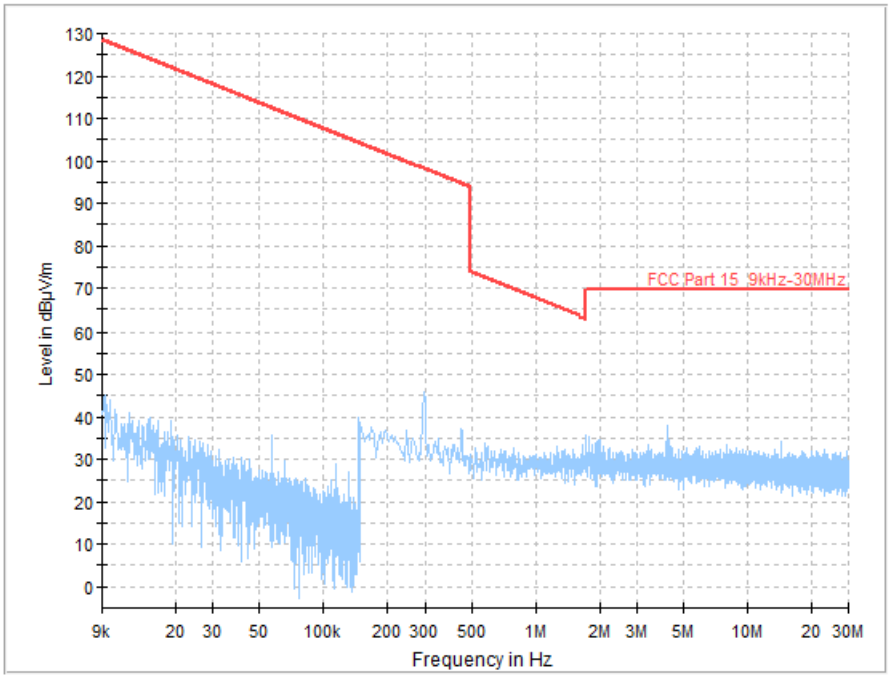

Fig.21 Radiated Spurious Emission (Ch19, 9 kHz - 30 MHz), 1M

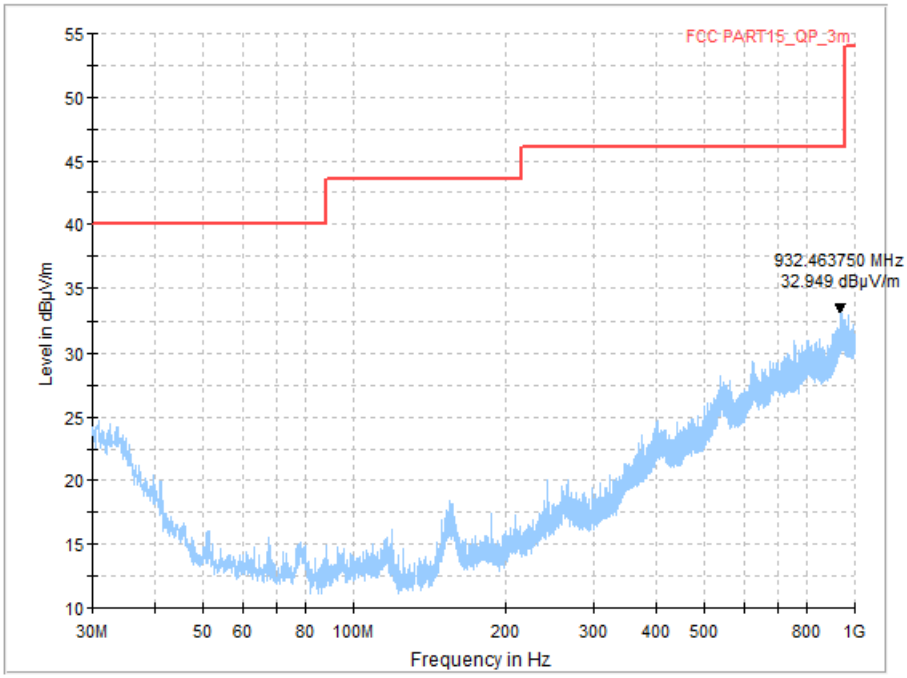

Fig.22 Radiated Spurious Emission (Ch19, 30 MHz - 1 GHz), 1M

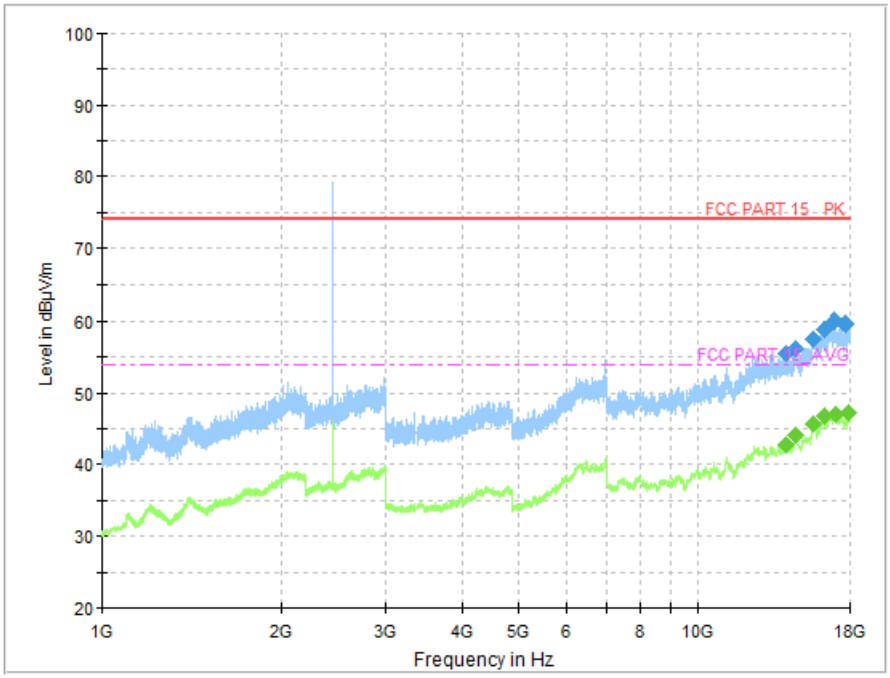

Fig.23 Radiated Spurious Emission (Ch19, 1 GHz - 18 GHz), 1M

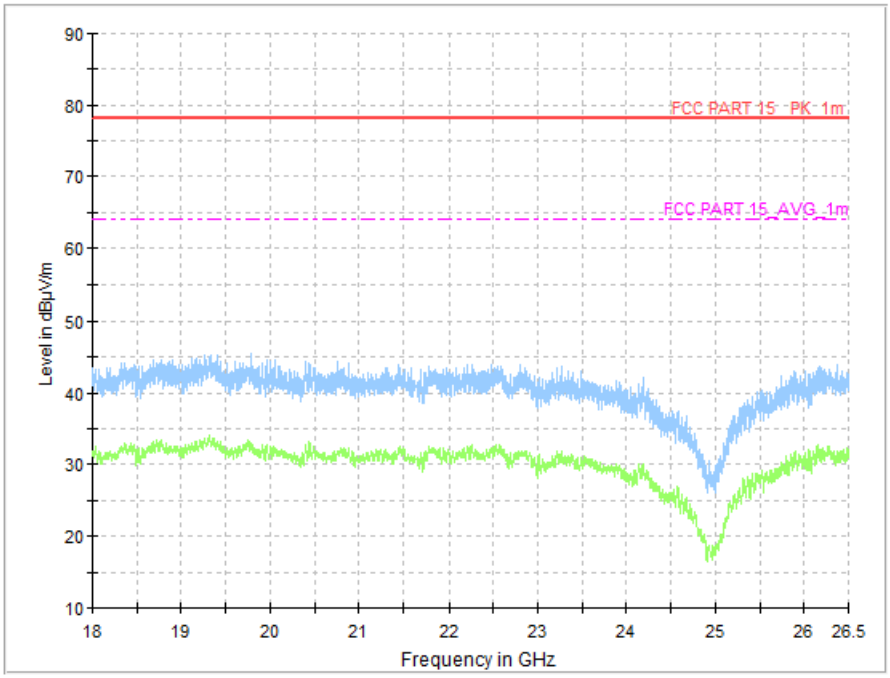

Fig.24 Radiated Spurious Emission (Ch19, 18 GHz - 26.5 GHz), 1M

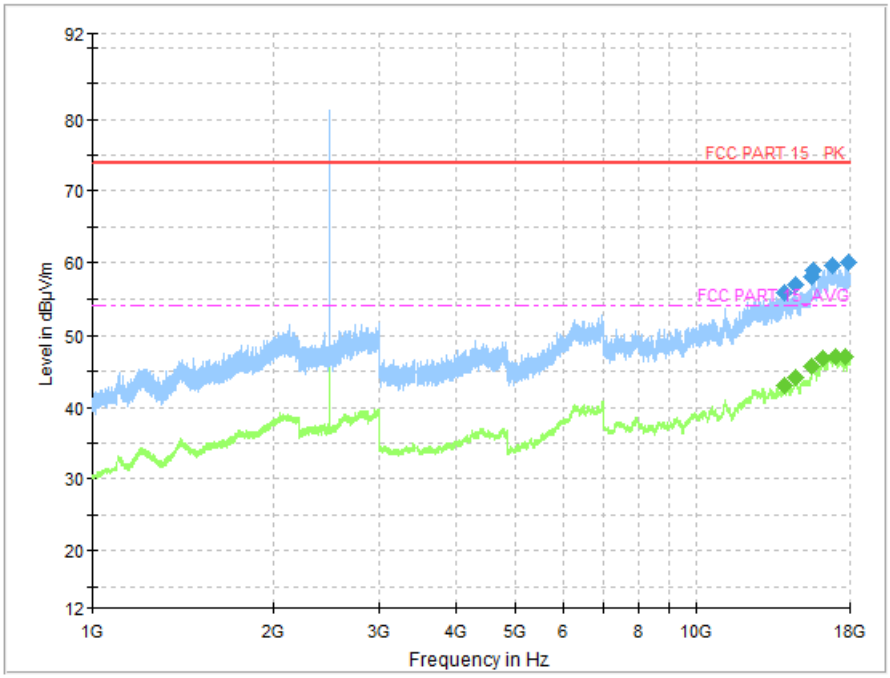

Fig.25 Radiated Spurious Emission (Ch39, 1 GHz - 18 GHz), 1M

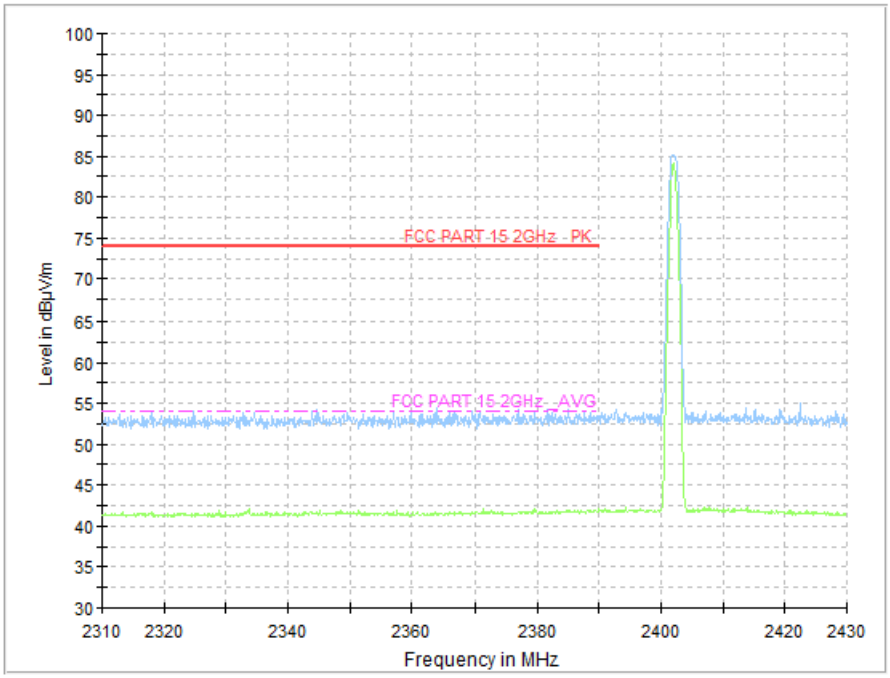

Fig.26 Radiated Band Edges (Ch0, 2380GHz - 2450GHz), 1M

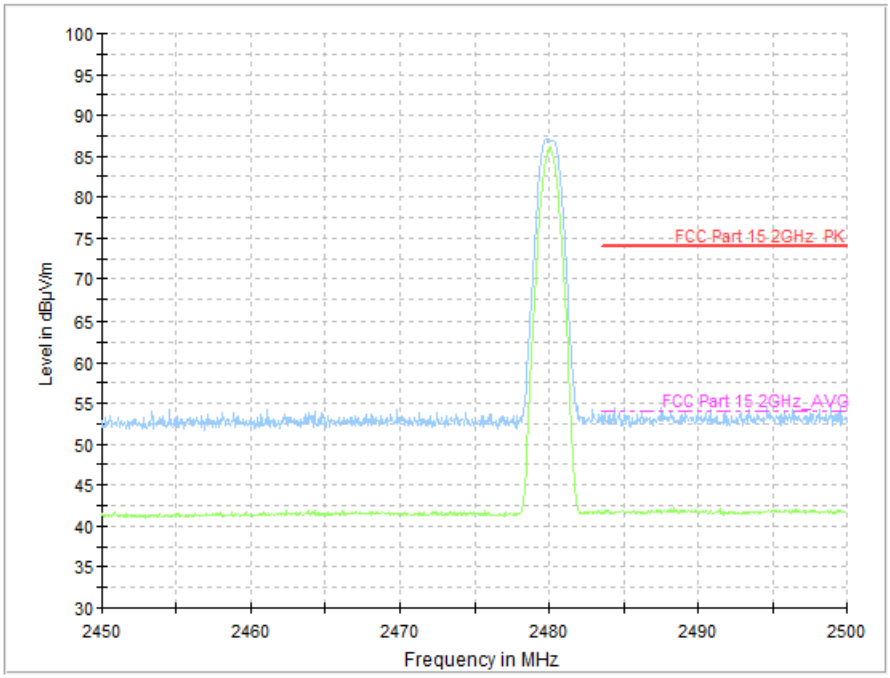

Fig.27 Radiated Band Edges (Ch39, 2450GHz - 2500GHz), 1M

A.7 AC Power line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

LE-1M

BLE (Quasi-peak Limit) - AE2

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.28	Fig.29	**P**
0.5 to 5	56			
5 to 30	60			
Note: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

BLE (Average Limit) - AE2

Frequency range (MHz)	Average-peak Limit (dBμV)	Result (dBμV)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.28	Fig.29	**P**
0.5 to 5	46			
5 to 30	50			
Note: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note: The measurement results include the L1 and N measurements.

See below for test graphs.

Conclusion: Pass

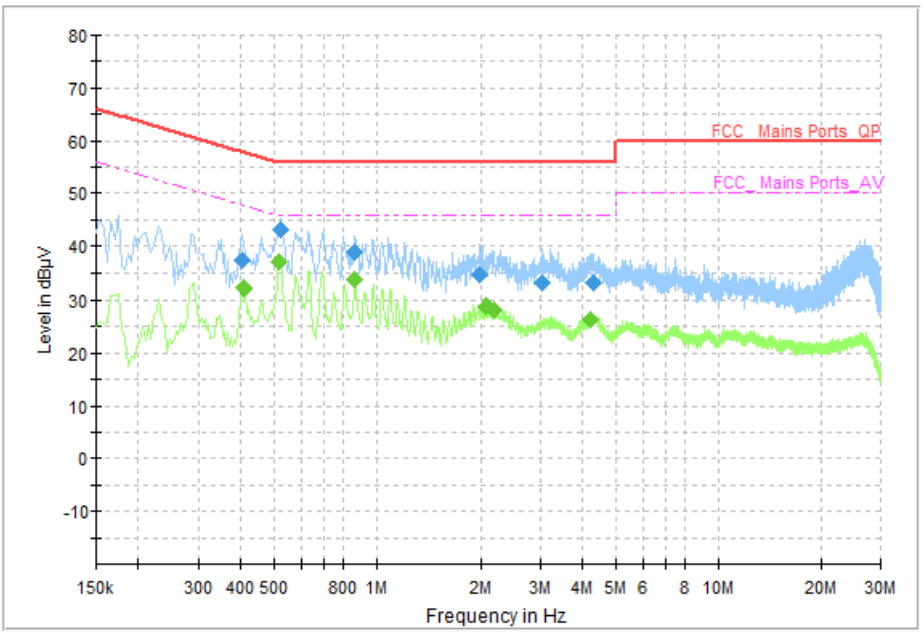

Fig.28 AC Power line Conducted Emission (Traffic, AE2, 120V), 1M

Measurement Results: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.402000	37.28	57.81	20.53	N	ON	10
0.522000	43.02	56.00	12.98	L1	ON	10
0.866000	38.81	56.00	17.19	L1	ON	10
1.998000	34.59	56.00	21.41	L1	ON	10
3.026000	33.12	56.00	22.88	L1	ON	10
4.290000	33.09	56.00	22.91	L1	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.406000	32.22	47.73	15.51	L1	ON	10
0.518000	37.01	46.00	8.99	L1	ON	10
0.866000	33.55	46.00	12.45	L1	ON	10
2.082000	28.76	46.00	17.24	L1	ON	10
2.194000	28.19	46.00	17.81	L1	ON	10
4.222000	26.47	46.00	19.53	L1	ON	10

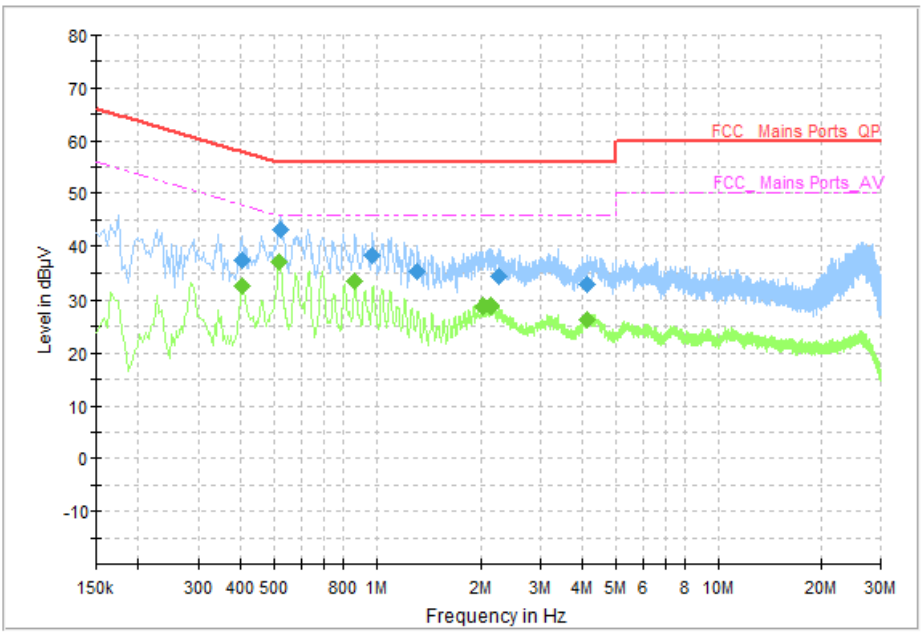

Fig.29 AC Power line Conducted Emission (Idle, AE2, 120V), 1M

Measurement Results: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.402000	37.19	57.81	20.62	N	ON	10
0.522000	43.04	56.00	12.96	L1	ON	10
0.970000	38.12	56.00	17.88	L1	ON	10
1.314000	35.26	56.00	20.74	L1	ON	10
2.258000	34.15	56.00	21.85	L1	ON	10
4.114000	32.72	56.00	23.28	L1	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.402000	32.53	47.81	15.28	L1	ON	10
0.518000	36.94	46.00	9.06	L1	ON	10
0.866000	33.48	46.00	12.52	L1	ON	10
2.022000	28.68	46.00	17.32	L1	ON	10
2.142000	28.76	46.00	17.24	L1	ON	10
4.114000	26.26	46.00	19.74	L1	ON	10

ANNEX B: Detail Spot Check Verification Data

8094X

Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)	Conclusion
GFSK	2402 (CH0)	-4.03	**P**
	2440 (CH19)	-3.51	**P**
	2480 (CH39)	-4.15	**P**

*****END OF REPORT*****