

TEST REPORT

No. I22N00681-BLE

TCL Communication Ltd.

Tablet PC

Model Name:9460G

with

Hardware Version: PIO

Software Version: vDT8J

FCC ID: 2ACCJB179

Issued Date: 2022-03-28

Designation Number: CN1210

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.

Test Laboratory:

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1. Summary of Test Report

1.1. Test Items

Description Tablet PC Model Name 9460G

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

Please refer to 5.2 Test Results.

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: 2022-02-04
Testing End Date: 2022-02-24

1.6. Signature

Ma Rui

(Prepared this test report)

An Ran

(Reviewed this test report)

Zhang Bojun

(Approved this test report)



Address:

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.

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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.

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FAX: 0086-755-36612000-81722



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

3.1. About EUT

Description Tablet PC Model Name 9460G

Frequency Range 2400MHz~2483.5MHz

Type of Modulation GFSK Number of Channels 40

Antenna Type Integrated
Antenna Gain 0.79 dBi

Power Supply 3.85V DC by Battery

FCC ID 2ACCJB179

Condition of EUT as received No abnormality in appearance

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT08aa	358946220000451	PIO	vDT8J	2022-02-04
UT02aa	358946220000477	PIO	vDT8J	2022-02-10
UT01aa	358946220000485	PIO	vDT8J	2022-02-10

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

3.3. <u>Internal Identification of AE</u>

AE ID*	Description	SN
AE1	Battery	1
AE2	Charger	1
AE3	USB Cable	1

^{*}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.

^{*}UT08aa is used for Conduction test; UT01aa and UT02aa are used for Radiation test and AC Power line Conducted Emission test.



4. Reference Documents

4.1. <u>Documents supplied by applicant</u>

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		
ANSI C63.10	American National Standard of Procedures for Compliance	2013	
	Testing of Unlicensed Wireless Devices		



5. Test Results

5.1. Testing Environment

Normal Temperature: $15\sim35$ °C Relative Humidity: $20\sim75\%$

5.2. Test Results

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

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.

Disclaimer:

- A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.
- B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.



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	2022-12-29	1 year
2	Power Sensor	U2021XA	MY55430013	Agilent	2022-12-29	1 year
3	Data Acquisiton	U2531A	TW55443507	Agilent	/	/

Radiated emission test system

Na	Carrings and	Madal	Serial	Manufacturer	Calibration	Calibration
No.	Equipment	Model	Number	Manufacturer	Date	Period
1	LISN	ESH2-Z5	100196	R&S	2022-12-31	1 year
2	Test Receiver	ESCI	100701	R&S	2022-08-04	1 year
3	Loop Antenna	HLA6120	35779	TESEQ	2022-05-01	3 year
4	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2024-02-15	3 year
5	Horn Antenna	3117	00066585	ETS-Lindgren	2025-03-03	3 year
6	Test Receiver	ESR7	101675	R&S	2022-07-16	1 year
7	Spectrum	FSP 40	100378	R&S	2022-12-10	1 year
	Analyzer	F3F 40	100376	Κασ	2022-12-10	1 year
8	Chamber	FACT5-2.0	4166	ETS-Lindgren	2024-05-11	3 year
9	Antonna	QSH-SL-1	17013	Oper	2024-01-13	2 voor
	Antenna	8-26-S-20	17013	Q-par	2024-01-13	3 year
10	Antonna	QSH-SL-2	17014	Q-par	2024-01-09	3 year
10	Antenna	6-40-K-20	(-20			

Test software

No.	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. <u>Laboratory Environment</u>

Semi-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, 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)	$<\pm 4$ 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	< 4Ω

Fully-anechoic chamber

Temperature	Min. = 15 $^{\circ}$ C, Max. = 35 $^{\circ}$ C	
Relative humidity	Min. = 20 %, Max. = 75 %	
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB	
Electrical insulation	> 2MΩ	
Ground system resistance	< 4Ω	
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	Uncertair	ity (k=2)
1. RF Output Power - Conducted	1.32	dB
2. Power Spectral Density - Conducted	2.32	dB
3. Occupied channel bandwidth - Conducted	66H	łz
	30MHz≤f<1GHz	1.41dB
4. Transmitter Spurious Emission - Conducted	1GHz≤f<7GHz	1.92dB
	7GHz≤f<13GHz	2.31dB
	13GHz≤f≤26GHz	2.61dB
	9kHz≤f<30MHz	1.70dB
F. Transmitter Spurious Emission Dadiated	30MHz≤f<1GHz	4.90dB
Transmitter Spurious Emission - Radiated	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 0.79dBi. 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:

Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)	E.I.R.P (dBm)	Conclusion
	2402 (CH0)	-3.60	-2.81	Р
LE-1M	2440 (CH19)	-2.17	-1.38	Р
	2480 (CH39)	-3.15	-2.36	Р
	2402 (CH0)	-3.66	-2.87	Р
LE-2M	2440 (CH19)	-2.26	-1.47	Р
	2480 (CH39)	-3.21	-2.42	Р

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 Spec	tral Density (dBm)	Conclusion
	2402 (CH0)	Fig.1	-20.68	Р
LE-1M	2440 (CH19)	Fig.2	-19.27	Р
	2480 (CH39)	Fig.3	-20.29	Р
	2402 (CH0)	Fig.4	-22.94	Р
LE-2M	2440 (CH19)	Fig.5	-21.65	Р
	2480 (CH39)	Fig.6	-22.53	Р

See below for test graphs.

Conclusion: PASS

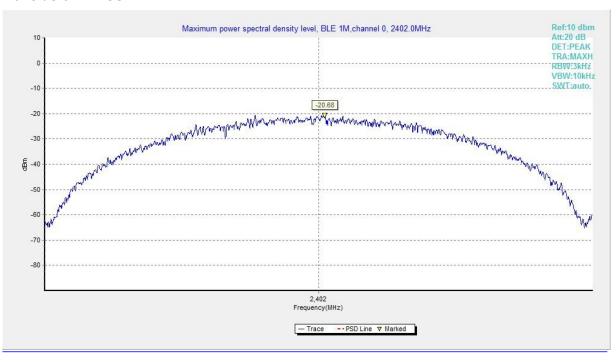


Fig.1 Power Spectral Density (Ch 0), LE 1M



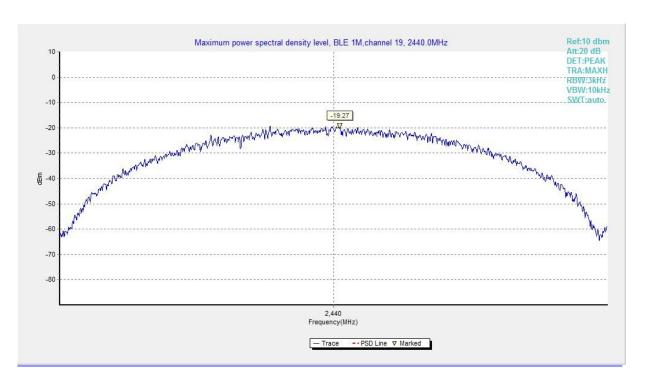


Fig.2 Power Spectral Density (Ch 19), LE 1M

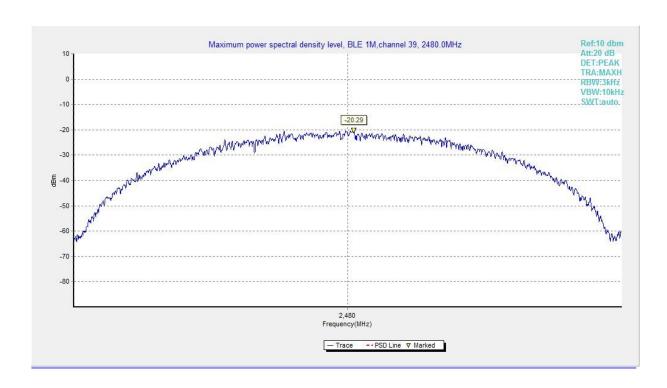


Fig.3 Power Spectral Density (Ch 39), LE 1M



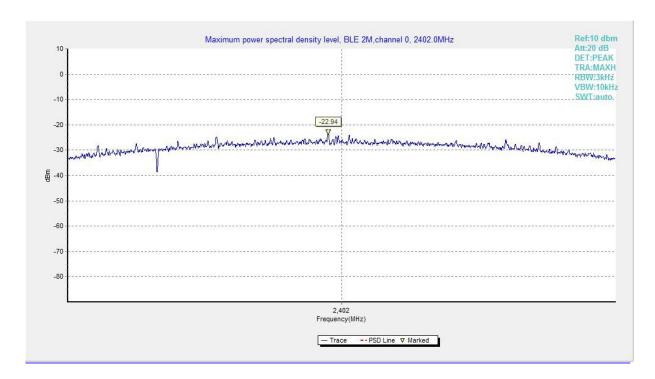


Fig.4 Power Spectral Density (Ch 0), LE 2M

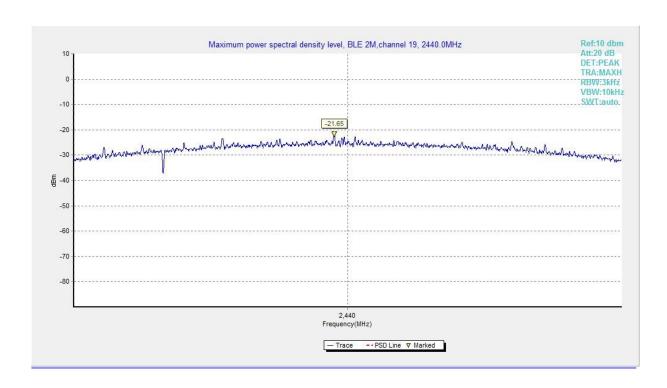


Fig.5 Power Spectral Density (Ch 19), LE 2M



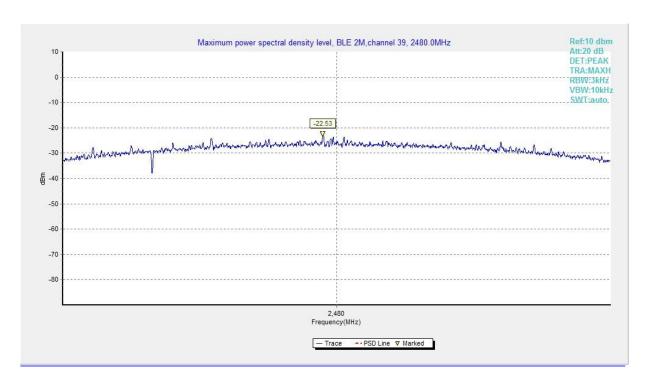


Fig.6 Power Spectral Density (Ch 39), LE 2M



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
	2402 (CH0)	Fig.7	667.50	Р
LE-1M	2440 (CH19)	Fig.8	663.50	Р
	2480 (CH39)	Fig.9	667.50	Р
	2402 (CH0)	Fig.10	1163.00	Р
LE-2M	2440 (CH19)	Fig.11	1164.50	Р
	2480 (CH39)	Fig.12	1164.50	Р

See below for test graphs.

Conclusion: PASS

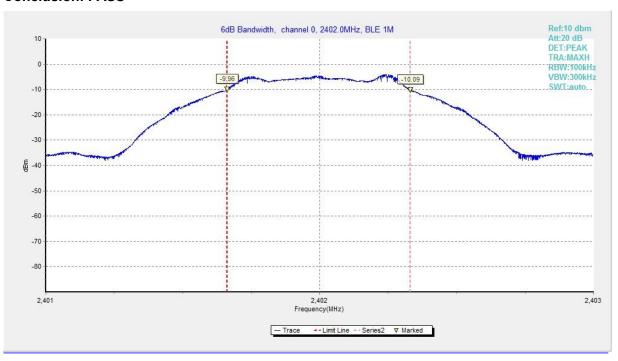


Fig.7 6dB Bandwidth (Ch 0), LE 1M



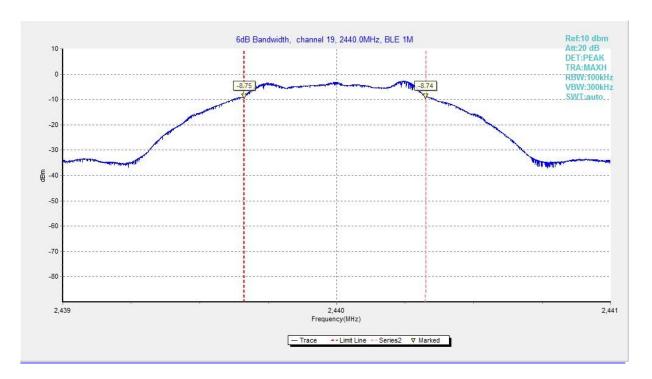


Fig.8 6dB Bandwidth (Ch 19), LE 1M

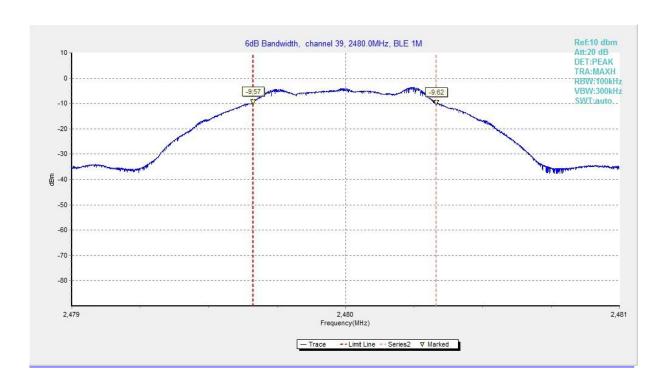


Fig.9 6dB Bandwidth (Ch 39), LE 1M



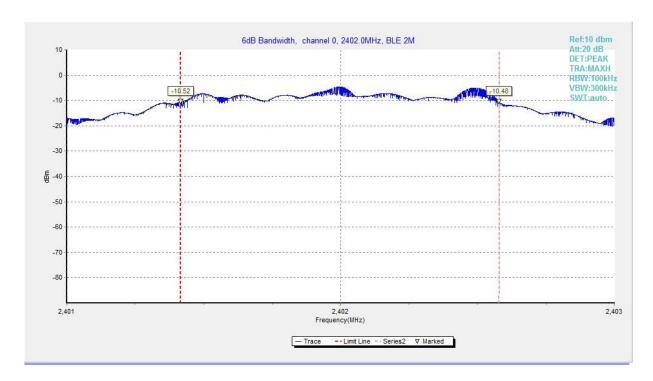


Fig.10 6dB Bandwidth (Ch 0), LE 2M

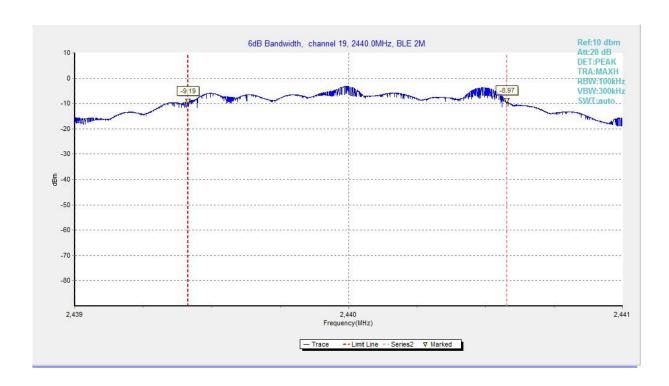


Fig.11 6dB Bandwidth (Ch 19), LE 2M



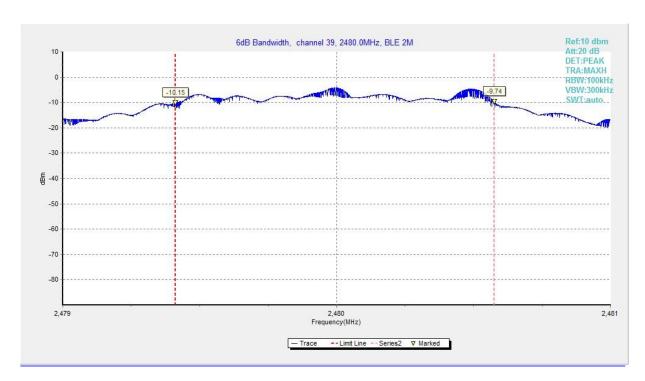


Fig.12 6dB Bandwidth (Ch 39), LE 2M



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
LF-1M	2402 (CH0)	Fig.13	56.81	Р
LE-IIVI	2480 (CH39)	Fig.14	57.20	Р
LF-2M	2402 (CH0)	Fig.15	31.12	Р
LE-ZIVI	2480 (CH39)	Fig.16	54.58	Р

See below for test graphs.

Conclusion: Pass

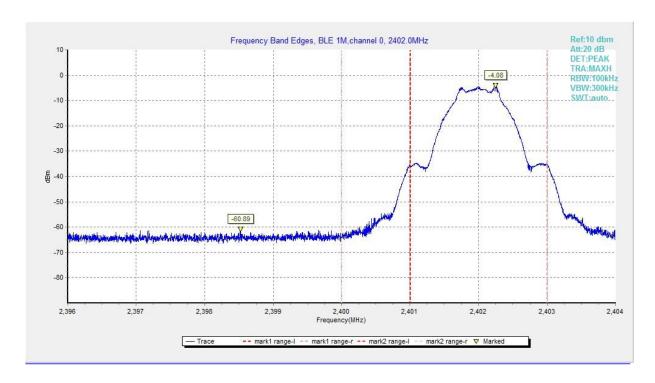


Fig.13 Band Edges (Ch 0), LE 1M



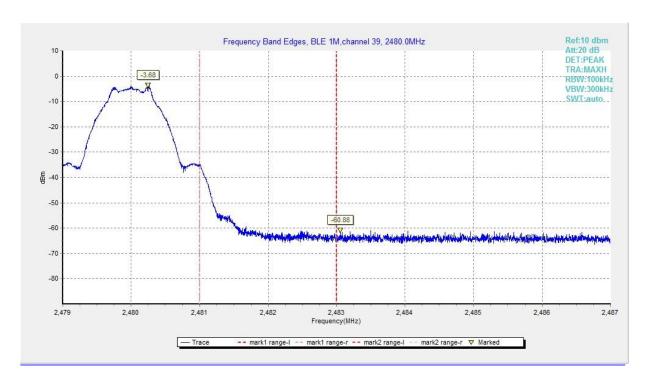


Fig.14 Band Edges (Ch 39), LE 1M

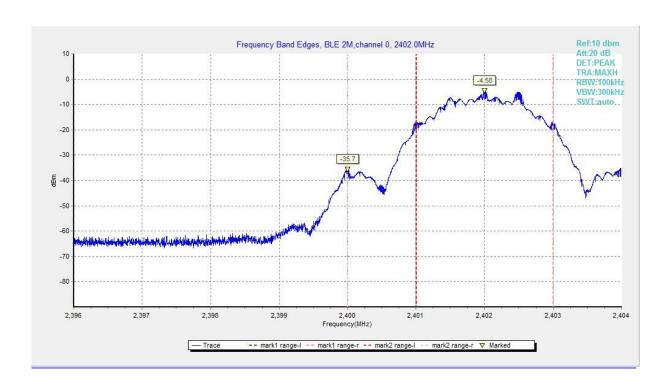


Fig.15 Band Edges (Ch 0), LE 2M



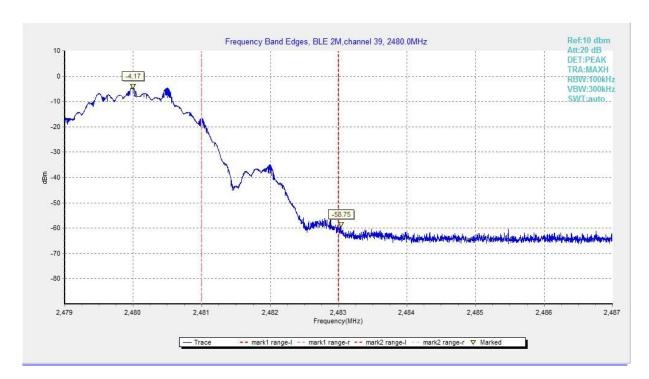


Fig.16 Band Edges (Ch 39), LE 2M



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
	0	2.402 GHz	Fig.17	Р
		1 GHz ~ 3 GHz	Fig.18	Р
		3 GHz ~ 10 GHz	Fig.19	Р
		2.440 GHz	Fig.20	Р
	19	1 GHz ~ 3 GHz	Fig.21	Р
LE-1M		3 GHz ~ 10 GHz	Fig.22	Р
		2.480 GHz	Fig.23	Р
	39	1 GHz ~ 3 GHz	Fig.24	Р
		3 GHz ~ 10 GHz	Fig.25	Р
	All channels	30 MHz ~ 1 GHz	Fig.26	Р
	All Charmers	10 GHz ~ 26 GHz	Fig.27	Р
	0	2.402 GHz	Fig.28	Р
		1 GHz ~ 3 GHz	Fig.29	Р
		3 GHz ~ 10 GHz	Fig.30	Р
		2.440 GHz	Fig.31	Р
	19	1 GHz ~ 3 GHz	Fig.32	Р
LE-2M		3 GHz ~ 10 GHz	Fig.33	Р
		2.480 GHz	Fig.34	Р
	39	1 GHz ~ 3 GHz	Fig.35	Р
		3 GHz ~ 10 GHz	Fig.36	Р
	All channels	30 MHz ~ 1 GHz	Fig.37	Р
<u> </u>	All Charlineis	10 GHz ~ 26 GHz	Fig.38	Р

See below for test graphs.

Conclusion: Pass



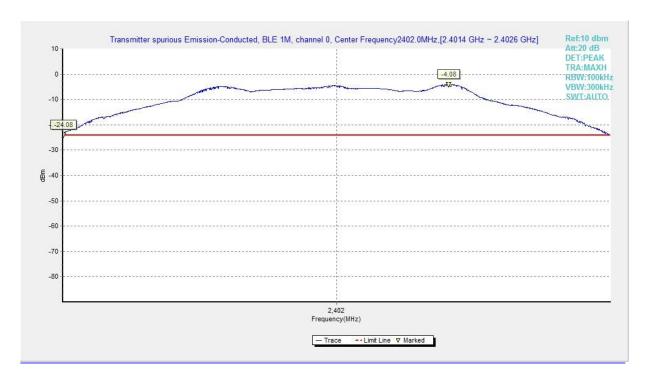


Fig.17 Conducted Spurious Emission (Ch0, Center Frequency), LE 1M

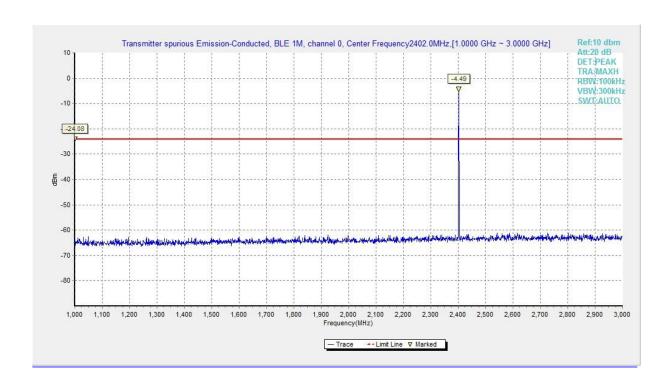


Fig.18 Conducted Spurious Emission (Ch0, 1 GHz-3 GHz), LE 1M



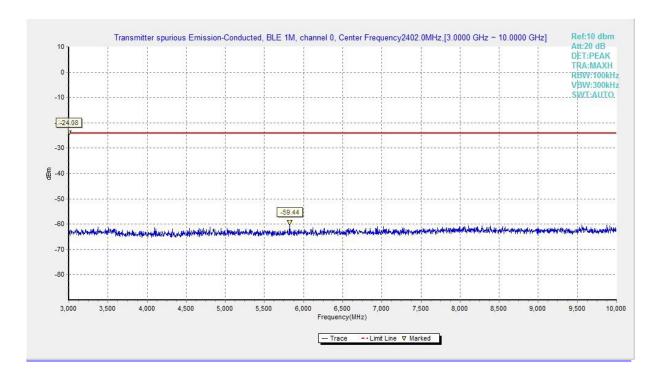


Fig.19 Conducted Spurious Emission (Ch0, 3 GHz-10 GHz), LE 1M

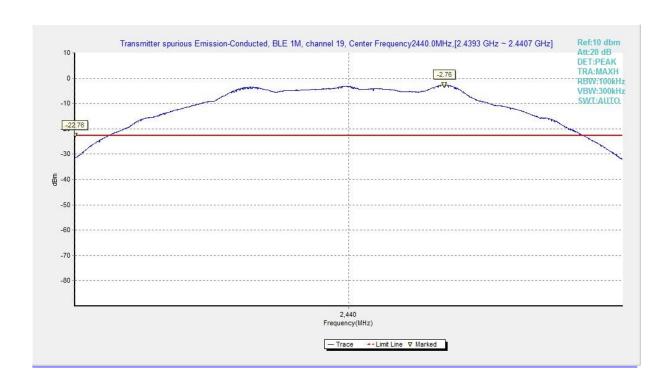


Fig.20 Conducted Spurious Emission (Ch19, Center Frequency), LE 1M



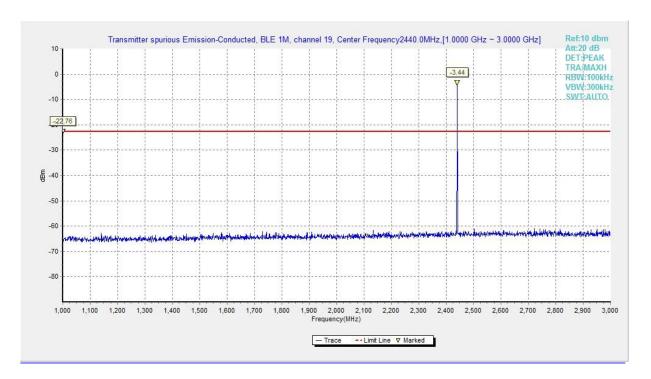


Fig.21 Conducted Spurious Emission (Ch19, 1 GHz-3 GHz), LE 1M

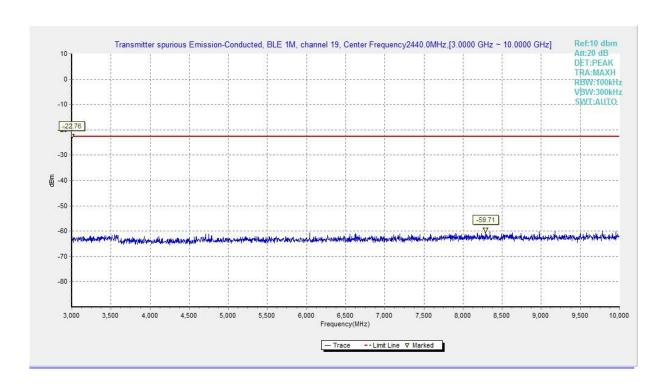


Fig.22 Conducted Spurious Emission (Ch19, 3 GHz-10 GHz), LE 1M



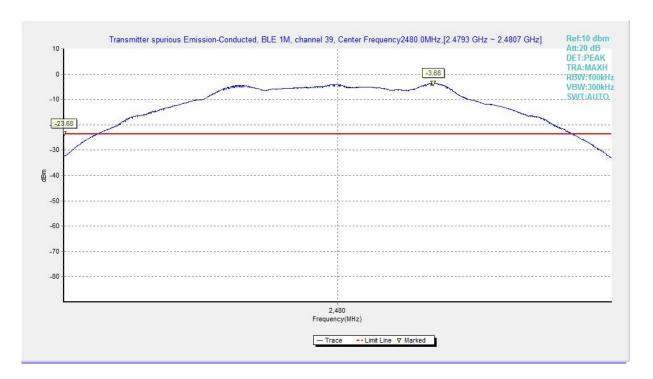


Fig.23 Conducted Spurious Emission (Ch39, Center Frequency), LE 1M

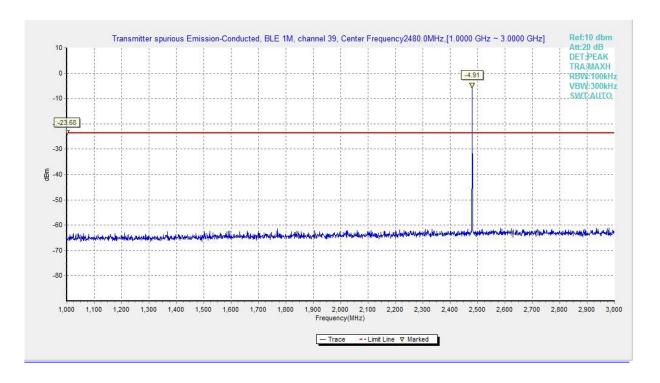


Fig.24 Conducted Spurious Emission (Ch39, 1 GHz-3 GHz), LE 1M



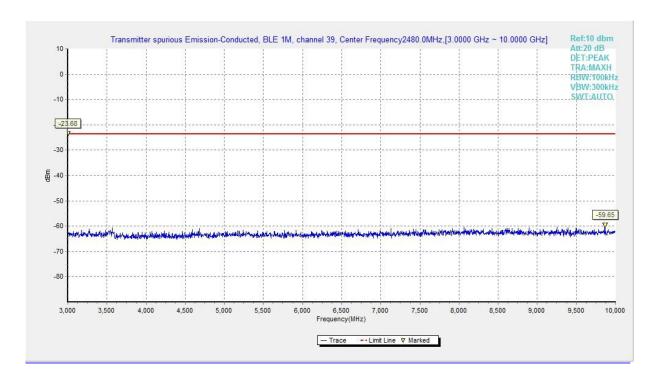


Fig.25 Conducted Spurious Emission (Ch39, 3 GHz-10 GHz), LE 1M

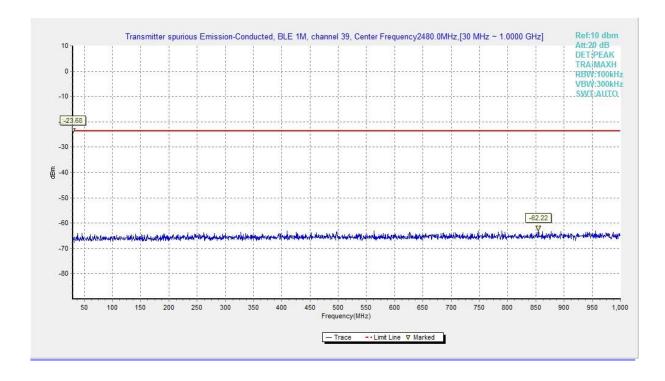


Fig.26 Conducted Spurious Emission (All channels, 30 MHz-1 GHz), LE 1M



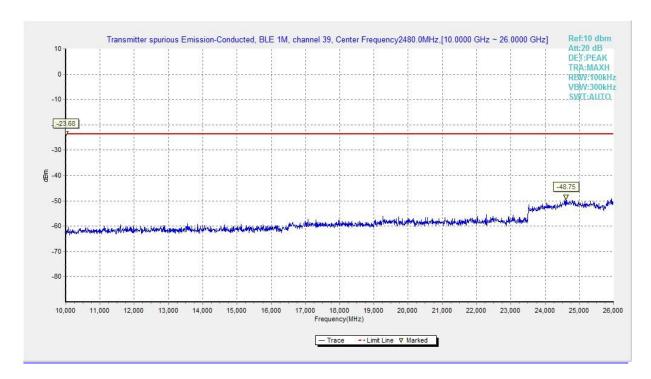


Fig.27 Conducted Spurious Emission (All channels, 10 GHz-26 GHz), LE 1M

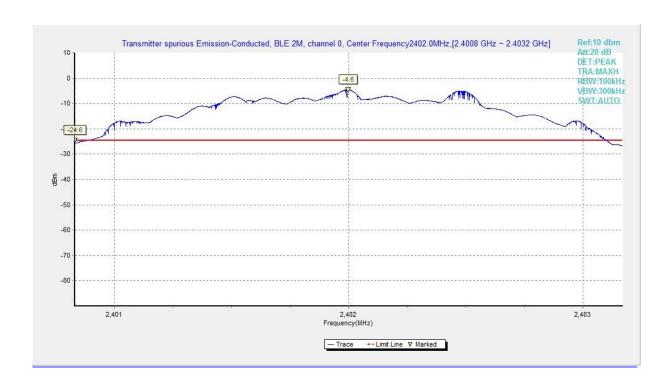


Fig.28 Conducted Spurious Emission (Ch0, Center Frequency), LE 2M



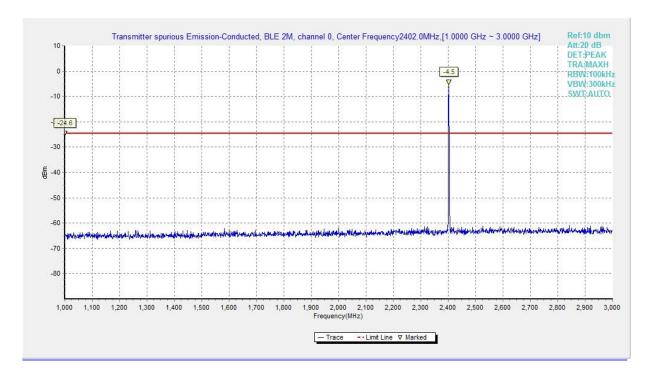


Fig.29 Conducted Spurious Emission (Ch0, 1 GHz-3 GHz), LE 2M

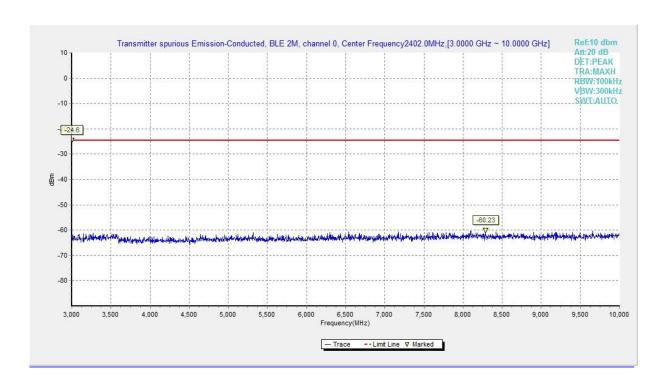


Fig.30 Conducted Spurious Emission (Ch0, 3 GHz-10 GHz), LE 2M



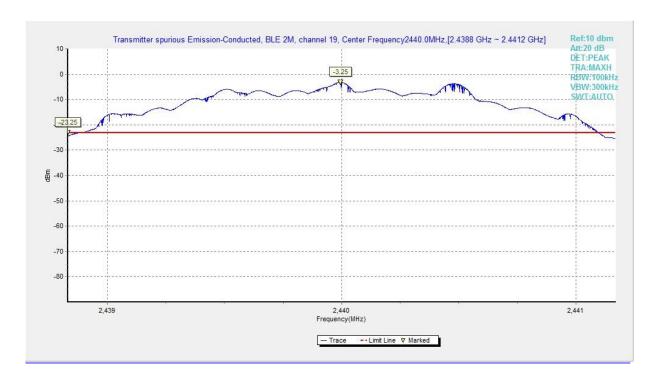


Fig.31 Conducted Spurious Emission (Ch19, Center Frequency), LE 2M

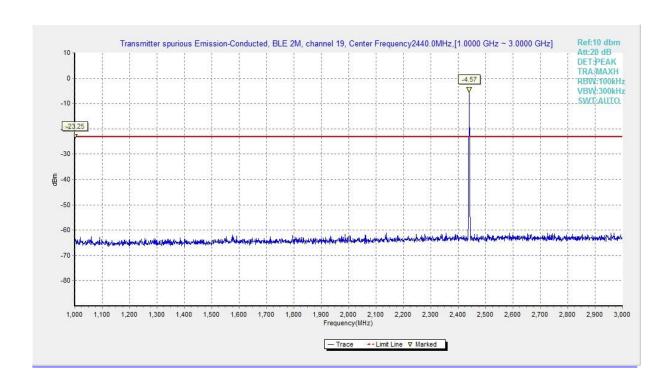


Fig.32 Conducted Spurious Emission (Ch19, 1 GHz-3 GHz), LE 2M



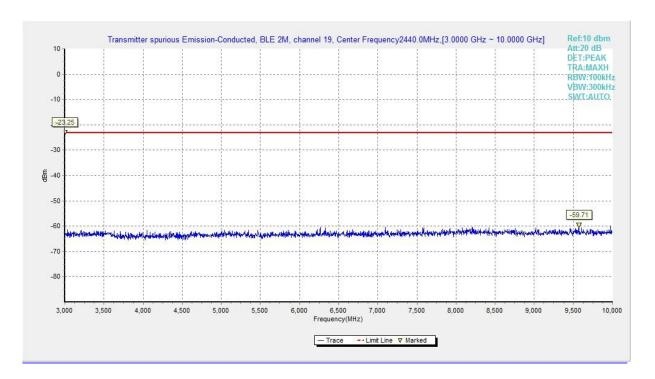


Fig.33 Conducted Spurious Emission (Ch19, 3 GHz-10 GHz), LE 2M

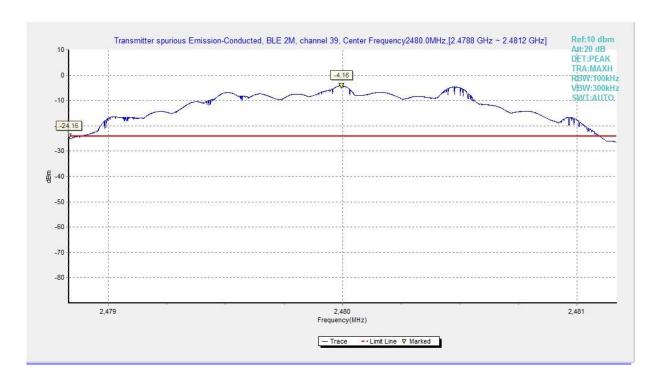


Fig.34 Conducted Spurious Emission (Ch39, Center Frequency), LE 2M



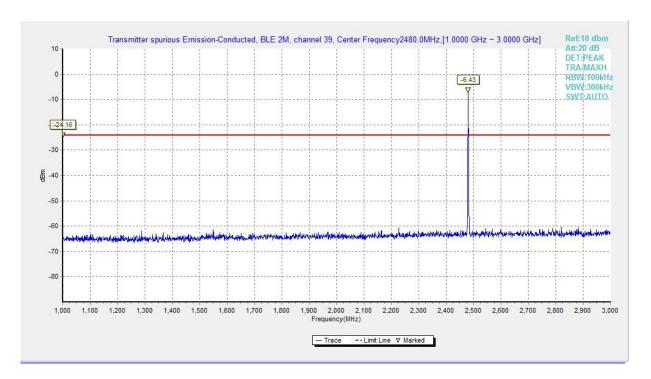


Fig.35 Conducted Spurious Emission (Ch39, 1 GHz-3 GHz), LE 2M

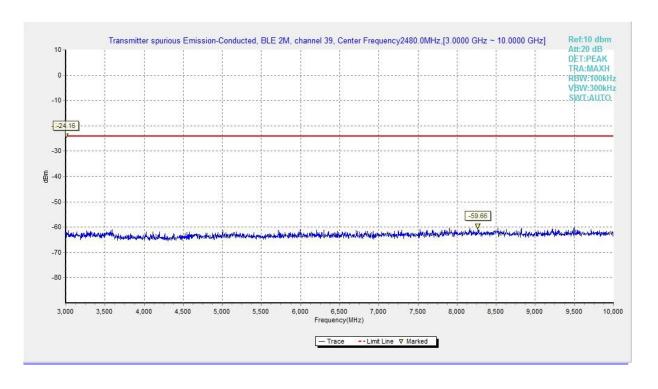


Fig.36 Conducted Spurious Emission (Ch39, 3 GHz-10 GHz), LE 2M



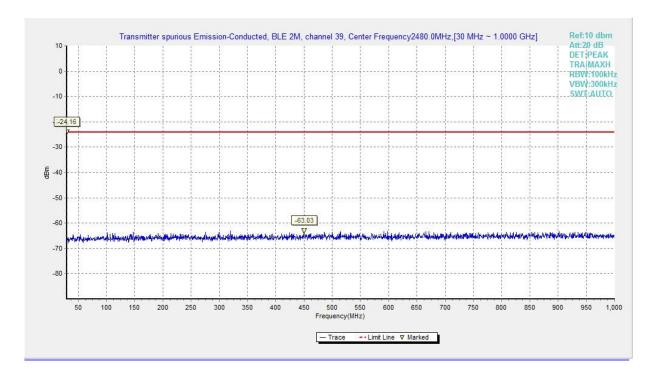


Fig.37 Conducted Spurious Emission (All channels, 30 MHz-1 GHz), LE 2M

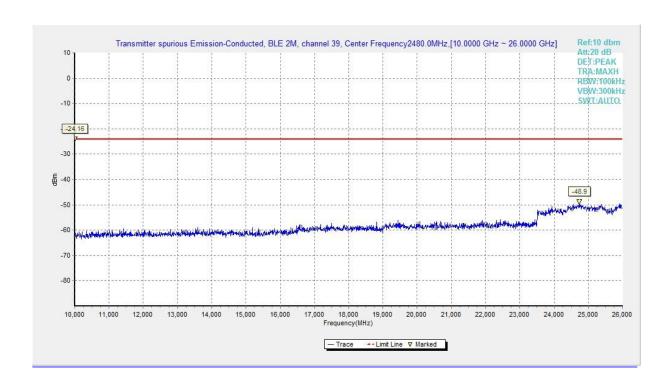


Fig.38 Conducted Spurious Emission (All channels, 10 GHz-26 GHz), LE 2M



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
	0	3 GHz ~ 18 GHz	Fig.39	Р
		9 kHz ~ 30 MHz	Fig.40	Р
		30 MHz ~ 1 GHz	Fig.41	Р
	19	1 GHz ~ 3 GHz	Fig.42	Р
LE-1M		3 GHz ~ 18 GHz Fig.39 9 kHz ~ 30 MHz Fig.40 30 MHz ~ 1 GHz Fig.41	Р	
		18 GHz ~ 26.5 GHz	Fig.44	Р
	39	3 GHz ~ 18 GHz	Fig.45	Р
	Restricted Band(CH0)	2.38 GHz ~ 2.45 GHz	Fig.46	Р
	Restricted Band(CH39)	2.45 GHz ~ 2.5 GHz	Fig.47	Р
	0	3 GHz ~ 18 GHz	Fig.48	Р
	19 1 0 3 G 3 G 18 G 39 3 G Restricted Band(CH0) 2.38 G Restricted Band(CH39) 2.45 G 0 3 G 9 ki 30 I 19 1 G 3 G 18 G 39 3 G	9 kHz ~ 30 MHz	Fig.49	Р
		30 MHz ~ 1 GHz	Fig.50	Р
	19	1 GHz ~ 3 GHz	Fig.51	Р
LE-2M		3 GHz ~ 18 GHz	Fig.52	Р
		18 GHz ~ 26.5 GHz	Fig.53	Р
	39	3 GHz ~ 18 GHz	Fig.54	Р
	Restricted Band(CH0)	2.38 GHz ~ 2.45 GHz	Fig.55	Р
	Restricted Band(CH39)	2.45 GHz ~ 2.5 GHz	Fig.56	Р

See below for test graphs.

Conclusion: Pass

Worst Case Result LE-1M CH19 (3-18GHz)

•	•				
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
9872.500000	45.66	74.00	28.34	Н	5.2
11495.000000	47.14	74.00	26.86	Н	6.9
13284.000000	48.15	74.00	25.85	V	9.7
14883.500000	49.85	74.00	24.15	Н	11.7
16542.000000	51.82	74.00	22.18	Н	15.2
17951.000000	52.13	74.00	21.87	Н	17.2

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
9882.500000	34.17	54.00	19.83	V	5.4
11438.000000	34.90	54.00	19.10	V	6.7
12941.500000	36.80	54.00	17.21	Н	9.5
15293.500000	37.74	54.00	16.26	V	12.4
16815.500000	40.06	54.00	13.94	Н	16.0
17946.000000	40.76	54.00	13.24	V	17.3



LE-2M CH19 (3-18GHz)

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
9850.500000	45.63	74.00	28.37	Н	5.3
11486.500000	46.61	74.00	27.39	V	6.9
12969.000000	47.86	74.00	26.14	Н	9.4
15280.000000	49.49	74.00	24.51	V	12.2
16916.500000	51.83	74.00	22.17	Н	16.0
17946.000000	51.67	74.00	22.33	Н	17.3

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB)
9881.500000	33.46	54.00	20.54	V	5.4
11472.500000	34.74	54.00	19.26	Н	6.7
13097.000000	36.22	54.00	17.78	Н	9.8
14462.000000	37.21	54.00	16.79	Н	11.8
16889.500000	39.59	54.00	14.41	V	16.0
17910.500000	40.24	54.00	13.76	V	17.4

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



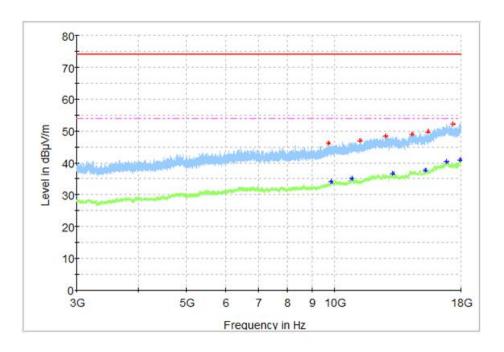


Fig.39 Radiated Spurious Emission (Ch0, 3 GHz - 18 GHz), 1M

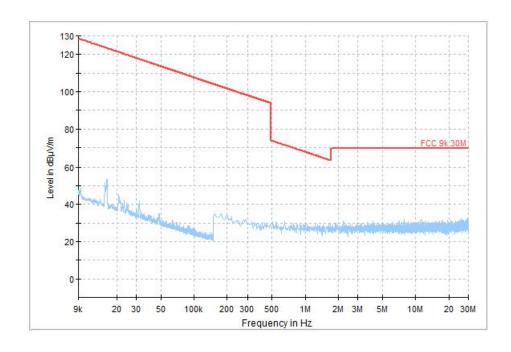


Fig.40 Radiated Spurious Emission (Ch19, 9 kHz - 30 MHz), 1M



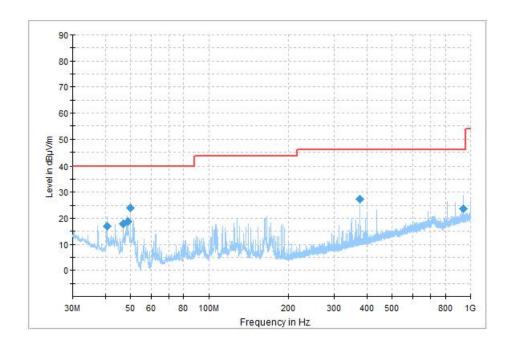


Fig.41 Radiated Spurious Emission (Ch19, 30 MHz - 1 GHz), 1M

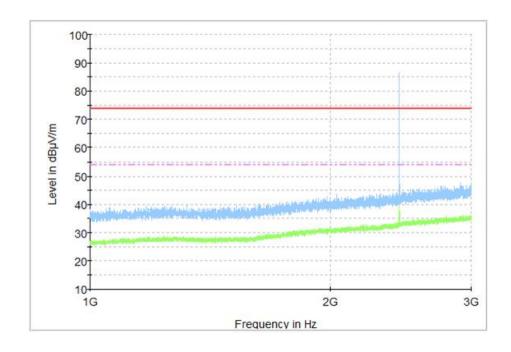


Fig.42 Radiated Spurious Emission (Ch19, 1 GHz - 3 GHz), 1M



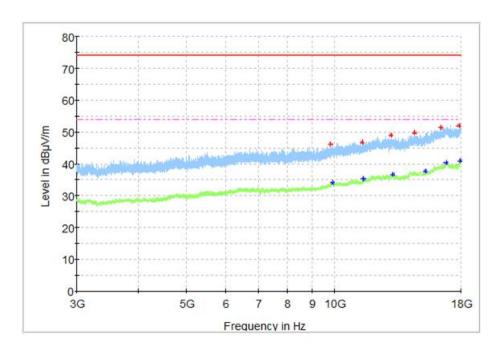


Fig.43 Radiated Spurious Emission (Ch19, 3 GHz - 18 GHz), 1M

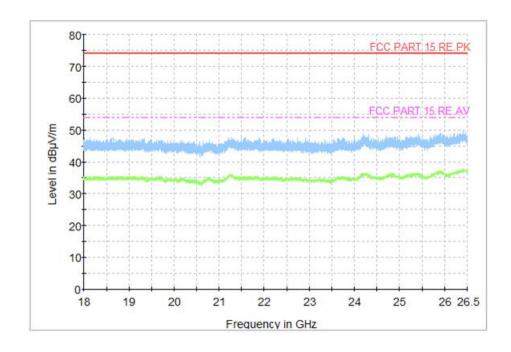


Fig.44 Radiated Spurious Emission (Ch19, 18 GHz - 26.5 GHz), 1M



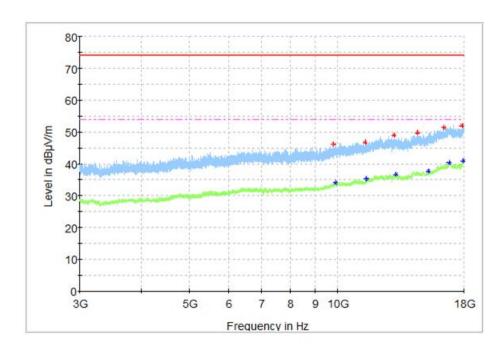


Fig.45 Radiated Spurious Emission (Ch39, 3 GHz - 18 GHz), 1M

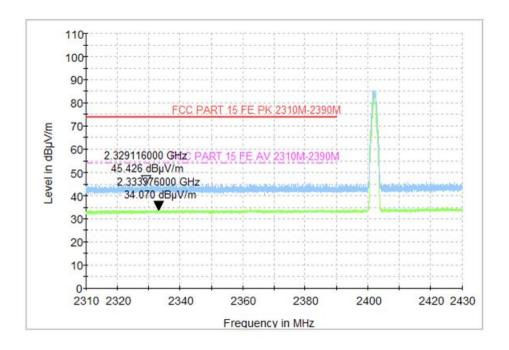


Fig.46 Radiated Band Edges (Ch0, 2380GHz - 2450GHz), 1M



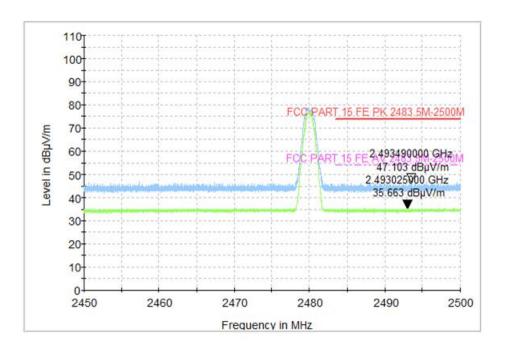


Fig.47 Radiated Band Edges (Ch39, 2450GHz - 2500GHz), 1M

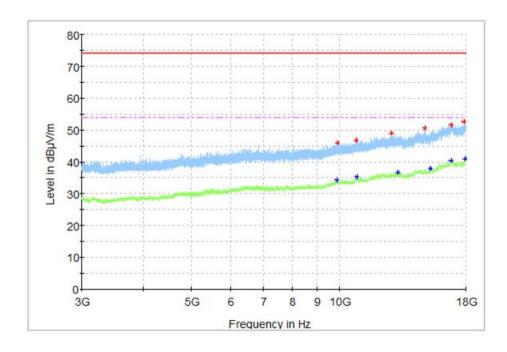


Fig.48 Radiated Spurious Emission (Ch0, 3 GHz - 18 GHz), 2M



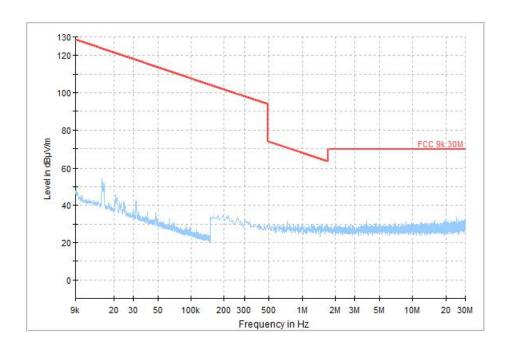


Fig.49 Radiated Spurious Emission (Ch19, 9 kHz - 30 MHz), 2M

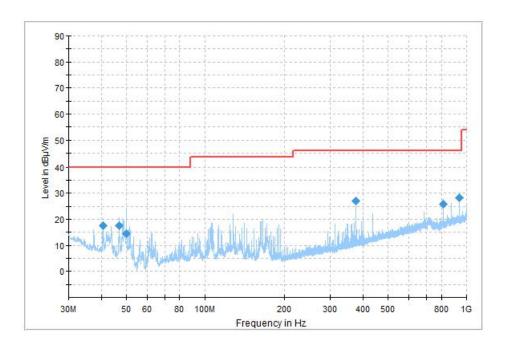


Fig.50 Radiated Spurious Emission (Ch19, 30 MHz - 1 GHz), 2M



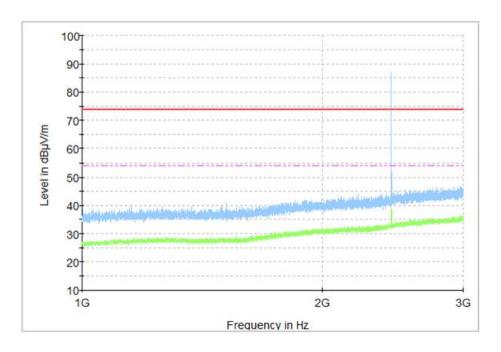


Fig.51 Radiated Spurious Emission (Ch19, 1 GHz - 3 GHz), 2M

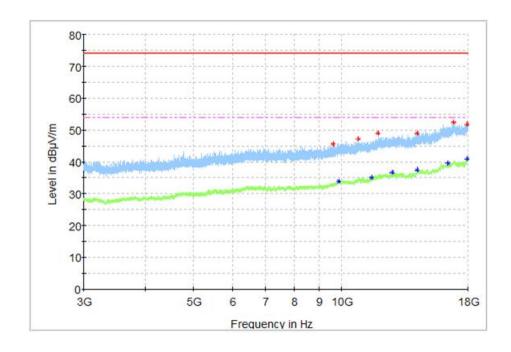


Fig.52 Radiated Spurious Emission (Ch19, 3 GHz - 18 GHz), 2M



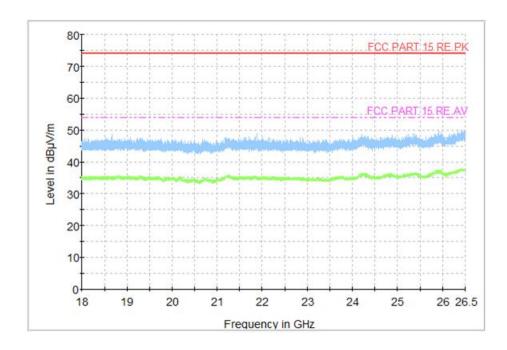


Fig.53 Radiated Spurious Emission (Ch19, 18 GHz - 26.5 GHz), 2M

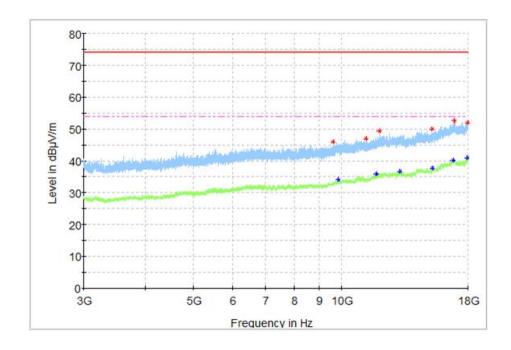


Fig.54 Radiated Spurious Emission (Ch39, 3 GHz - 18 GHz), 2M



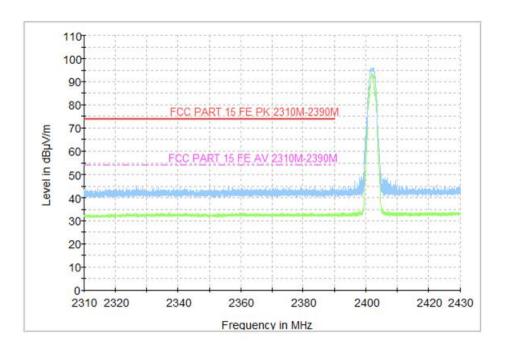


Fig.55 Radiated Band Edges (Ch0, 2380GHz - 2450GHz), 2M

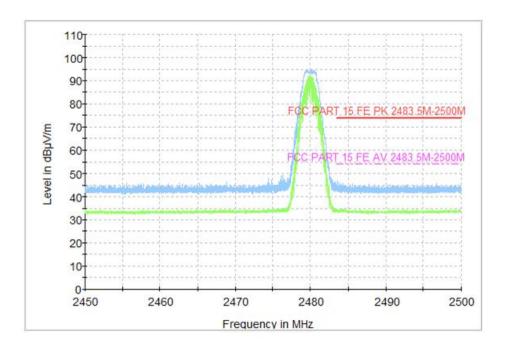


Fig.56 Radiated Band Edges (Ch39, 2450GHz - 2500GHz), 2M



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	Quasi-peak	Result	Conclusion					
range (MHz)	Limit (dBμV)	Traffic	ldle	Conclusion				
0.15 to 0.5	66 to 56							
0.5 to 5	56	Fig.57	Fig.58	Р				
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	Average-peak	Result (dBμV)		Conclusion
range (MHz)	Limit (dBμV)	Traffic	ldle	Conclusion
0.15 to 0.5	56 to 46			
0.5 to 5	46	Fig.57	Fig.58	Р
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



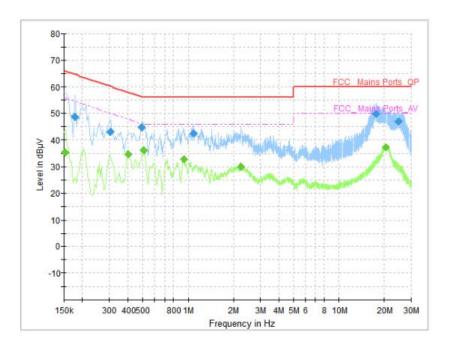


Fig.57 AC Power line Conducted Emission (Traffic, AE2, 120V), 1M

Measurement Results: Quasi Peak

Frequency	QuasiPeak	Limit	Margin	Line	Filter	Corr (dP)
(MHz)	(dBµV)	(dBµV)	(dB)	Line	riiter	Corr. (dB)
0.178000	48.80	64.58	15.78	N	ON	10
0.306000	43.24	60.08	16.84	N	ON	10
0.490000	44.68	56.17	11.49	N	ON	10
1.082000	42.69	56.00	13.31	N	ON	10
17.586000	49.82	60.00	10.18	L1	ON	10
24.722000	47.05	60.00	12.95	L1	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000	35.35	55.78	20.43	N	ON	10
0.402000	34.77	47.81	13.04	L1	ON	10
0.510000	36.13	46.00	9.87	L1	ON	10
0.934000	32.76	46.00	13.24	L1	ON	10
2.254000	30.06	46.00	15.94	L1	ON	10
20.474000	37.16	50.00	12.84	N	ON	10



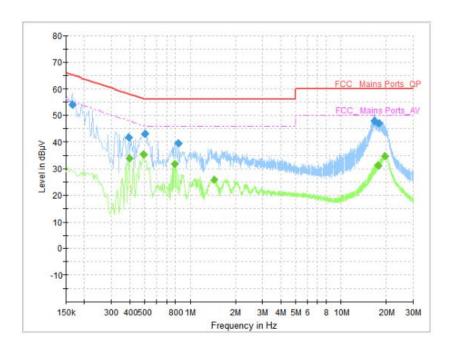


Fig.58 AC Power line Conducted Emission (Idle, AE2, 120V), 1M

Measurement Results: Quasi Peak

Frequency	QuasiPeak	Limit	Margin	Line	Filter	Corr (dP)
(MHz)	(dBµV)	(dBµV)	(dB)	Lille	riitei	Corr. (dB)
0.166000	53.89	65.16	11.27	L1	ON	10
0.394000	41.77	57.98	16.21	L1	ON	10
0.502000	43.21	56.00	12.79	N	ON	10
0.842000	39.38	56.00	16.62	L1	ON	10
16.642000	47.97	60.00	12.03	L1	ON	10
17.758000	47.01	60.00	12.99	L1	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.398000	33.81	47.90	14.09	L1	ON	10
0.494000	35.27	46.10	10.83	L1	ON	10
0.794000	31.75	46.00	14.25	L1	ON	10
1.446000	25.71	46.00	20.29	L1	ON	10
17.618000	31.25	50.00	18.75	N	ON	11
19.434000	34.81	50.00	15.19	N	ON	10



ANNEX B: Spot Check of Output Power

Company Name: TCL Communication Ltd.

Product Name: Tablet PC Model Name: 9160G, 9460G

Spot Check of Different Mode

Model	Mode	Frequency (MHz)	Conducted Power (dBm)
9160G	LE 1M	2440 (CH19)	-2.17
	BR (GFSK)	2441 (CH39)	1.56
	802.11b	2437 (CH6)	17.48
	802.11a	5280 (Ch56)	16.81
		5745 (CH149)	16.55
9460G	LE 1M	2440 (CH19)	-2.24
	BR (GFSK)	2441 (CH39)	1.48
	802.11b	2437 (CH6)	17.38
	802.11a	5280 (Ch56)	16.76
		5745 (CH149)	16.44

Note: Spot check test data included for the variants based on worst-case results reported in the original FCC ID filing. From the above data, it can be concluded that the conducted output power of the variant is less than or near to the original. And the variant test data can refer to the original report. This condition applies to the reports I21N04177.



ANNEX H: Spot Check of Transmitter unwanted emissions in the spurious domain

Company Name: TCL Communication Ltd

Product Name: Tablet PC

Model Name:9460G(FCC ID: 2ACCJB179)

Differences between models

Model Differences	9160G (Initial Model)	9460G (Record Model)
Model Name	9160G	9460G
GSM/WCDMA/LTE	Support	Nonsupport

Spot Check of Different Mode

Model Name	The Mode of the worst data of Original report	Frequency (MHz)	The worst result of Radiated Emission (dBµV/m)	The worst Margin(dB)
9160G (Initial Model)	π /4 DQPSK	2440 (CH39)	40.97	13.03
	BLE 1M	2440(CH19)	40.76	13.24
	802.11a	5745(CH149)	40.51	13.49
	802.11b	2412(CH1)	41.01	12.99
9460G (Record Model)	π /4 DQPSK	2440 (CH39)	40.62	13.38
	BLE 1M	2440(CH19)	40.51	13.49
	802.11a	5745(CH149)	40.33	13.67
	802.11b	2412(CH1)	40.78	13.22

Spot check test data included for the variants based on worst-case results reported in the original FCC ID filing.

From the above data, it can be concluded that the Radiated Emission of the variant is better than that of the original. And the variant test data can refer to the original report.

This condition applies to the reports *I21N04177* and *I22N00681*.

END OF REPORT