





TEST REPORT

No.B23N00973-BLE

for

Robert Bosch GmbH

Virtual Cockpit Unit

Model Name: VCURH1

with

Hardware Version: C3

Software Version: SQBR4-20

FCC ID: 2AUXS-VCURH1

Issued Date: 2023-10-18

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.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
B23N00973-BLE	Rev.0	1st edition	2023-10-18

Note: the latest revision of the test report supersedes all previous versions.



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1. Summary of Test Report

1.1. Test Items

Description Virtual Cockpit Unit

Model Name VCURH1

Applicant's name Robert Bosch GmbH Manufacturer's Name Robert Bosch GmbH

1.2. Test Standards

FCC Part15-2021; 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 518000

1.5. Project data

Testing Start Date: 2023-07-25 Testing End Date: 2023-09-28

1.6. Signature

Lin Zechuang

(Prepared this test report)

An Ran

(Reviewed this test report)

Zhang Bojun

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Robert Bosch GmbH

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2.2. Manufacturer Information

Company Name: Robert Bosch GmbH

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

3.1. About EUT

Description Virtual Cockpit Unit

Model Name VCURH1

Frequency Range ISM 2400MHz~2483.5MHz Equipment type Bluetooth® Low Energy

Type of Modulation GFSK

PHY LE 1M/2M

Number of Channels 40

Antenna Type Integrated antenna

Antenna Gain 5.2dBi(Ant0)

Power Supply 13.5V DC by External Power Supply

FCC ID 2AUXS-VCURH1

Condition of EUT as received No abnormality in appearance

Note1: The device is connected with two antennas (RF0 and RF1).

Internal antenna(RF0) has no antenna connector. External antenna(RF1) uses a unique Single High-Speed FAKRA Mini 1 pin - Rosenberger connector. The internal antenna RF0 is shared with Wifi via Time Division Multiplexing. The antennas are used with the following frequencies.

- RF0(Ant0) is for internal antenna which supports BT and Wifi (2.4GHz and 5GHz).
- RF1(Ant1) is for external antenna which supports only Wifi (2.4GHz and 5GHz).

Note2: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
UT02aa	9000012	C3	SQBR4-20	2023-07-01
UT04aa	9000005	C3	SQBR4-20	2023-06-28

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

UT02aa is used for conduction test, UT04aa is used for radiation test.

3.3. Internal Identification of AE used during the test

AE No.	Description	AE ID*
AE1	DC power supply	Aa01a
AE2	Data Cable	Ca01a
AE3	Power Cable	Ba01a
AE4	OptoUSB-2.0 Transceiver	Ha01a

AE1

Model PCR1000LA Manufacturer KIKUSUI





AE2

Model J6 HSAL-II Manufacturer MOLEX

AE3

Model J2 56 way STAK50H SYSTEM

Manufacturer

AE4

Model OptoUSB-2.0 Manufacturer Messtechnik

3.4. General Description

The Equipment under Test (EUT) is a model of Virtual Cockpit Unit with integrated antenna.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

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



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 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 902–928MHz,	
	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: 15~35°C Relative Humidity: 20~75%

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	15 247 (d)	Р
5	Emission - Conducted	15.247 (d)	Г
6	Transmitter Spurious	15.247, 15.205, 15.209	Р
0	Emission - Radiated	15.247, 15.205, 15.209	r

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	FSV40	100903	Rohde & Schwarz	2022-12-29	1 year
	Analyzer					. ,
2	Power Sensor	U2021XA	MY55430013	Keysight	2022-12-29	1 year
3	Data Acquisition	U2531A	TW55443507	Keysight	1	1
4	RF Control Unit	JS0806-2	21C8060398	Tonscend	2023-05-08	1 year
5	Shielding Room	S81	CT000986-1344	ETS-Lindgren	2021-09-13	5 years

Radiated test system

9K-30MHz, 30MHz-1GHz, 18GHz-26.5GHz:

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2022-11-24	1 year
2	Spectrum Analyzer	FSV40	101192	Rohde & Schwarz	2023-01-12	1 year
3	BiLog Antenna	3142E	0224831	ETS-Lindgren	2021-05-28	3years
4	Horn Antenna	3117	00066577	ETS-Lindgren	2022-04-18	3 years
5	Horn Antenna	QSH-SL-18-26 -S-20	17013	Q-par	2023-02-02	3 years
6	Horn Antenna	QSH-SL-18-40 -K-SG	15979	Q-par	2021-01-30	3 years
7	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years
8	Loop Antenna	HLA6120	35779	TESEQ	2022-05-13	3 years

1GHz-18GHz:

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Period
1	Test Receiver	FSV40-N	101655	Rohde & Schwarz	2023-05-03	1 year
2	BiLog Antenna	VULB 9163	9163-330	Schwarzbeck	2021-03-23	3 year
3	Horn Antenna	3117	00227733	ETS-lindgren	2023-03-16	3 years
4	Anechoic Chamberr	SAC3-1.2	TJ2359-Q19 22	ETS-Lindgren	2022-09-05	2 years
5	Filter	HPF_3G18G- SMA	SKET	1	1	1
6	Filter	HPF_6.3G21G -SMA	SKET	/	/	1

Test software

No.	Equipment	Manufacturer	Version
1	JS1120-3	Tonscend	3.3
2	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal.

The EUT was programmed to be in continuously transmitting mode.



7. Laboratory Environment

Shielded room

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

Anechoic chamber (FACT3-2.0)

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)	<±4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Anechoic chamber (SAC3-1.2)

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
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



8. Measurement Uncertainty

Test Name	Uncertain	nty (<i>k</i> =2)	
1. Maximum Peak Output Power	1.32	dB	
Peak Power Spectral Density	1.32dB		
3. 6dB Bandwidth	4.56	(Hz	
4. Band Edges Compliance	1.92dB		
	30MHz≤f<1GHz	1.41dB	
5 Transmitter Countries Fraissian Conducted	1GHz≤f<7GHz	1.92dB	
5. Transmitter Spurious Emission - Conducted	7GHz≤f<13GHz	2.31dB	
	13GHz≤f≤26GHz	2.61dB	
	9kHz≤f<30MHz	1.70dB	
	30MHz≤f<1GHz	4.80dB	
6. Transmitter Spurious Emission - Radiated	1GHz≤f<18GHz	4.88dB	
	18GHz≤f≤40GHz	2.36dB	



ANNEX A: Detailed Test Results

Test Configuration

The measurement is made according to ANSI C63.10.

1) Conducted Measurements

- 1. Connect the EUT to the test system correctly.
- 2. Set the EUT to the required work mode.
- 3. Set the EUT to the required channel.
- 4. Set the spectrum analyzer to start measurement.
- 5. Record the values.

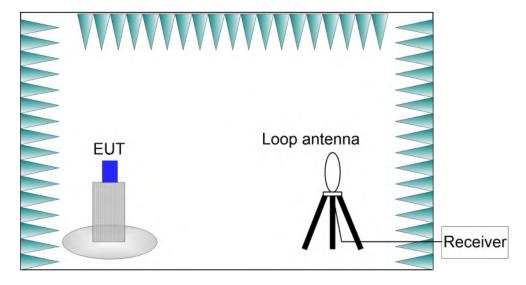


2) Radiated Measurements

Test setup:

9kHz-30MHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, the External antenna of EUT and EUT are placed 50cm apart center to center on the same plane, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below. During the tests, Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



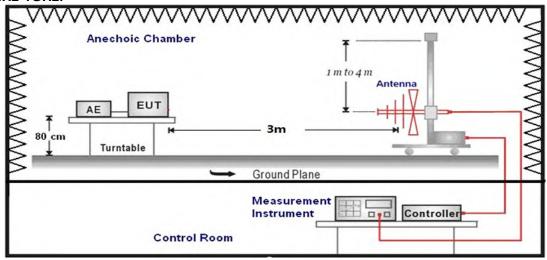
30MHz-1GHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, the external antenna of EUT and EUT are placed 50cm apart center to center on the same plane, and at a measurement distance of 3m from the receiving antenna. The center of the



receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

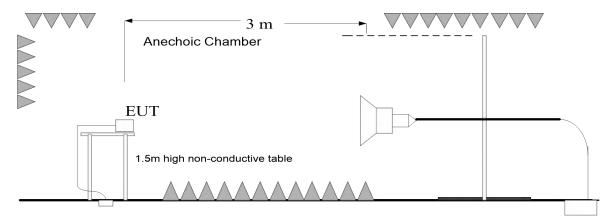
30MHz-1GHz:



1GHz-40GHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 1.5 meter high, the External antenna of EUT and EUT are placed 50cm apart center to center on the same plane, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.5 meter above the ground. The test setup refers to figure below. During the tests, Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

1GHz-40GHz:





A.0 Antenna requirement

Measurement Limit:

Standard	Requirement
	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
FCC CRF Part	connector is prohibited. This requirement does not apply to carrier current devices
15.203	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 5.2dBi.

The RF transmitter uses an integrate antenna without connector.



A.1 Maximum Peak Output Power

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

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CRF Part 15.247(b)	< 30

Measurement Results:

Mode	Frequency (MHz)	RF output	power (dBm)	Conclusion
	2402(CH0)	Fig.1	2.55	Р
LE 1M	2440(CH19)	Fig.2	2.36	Р
	2480(CH39)	Fig.3	2.34	Р
	2402(CH0)	Fig.4	2.51	Р
LE 2M	2440(CH19)	Fig.5	2.29	Р
	2480(CH39)	Fig.6	2.24	Р

See below for test graphs.

Conclusion: Pass



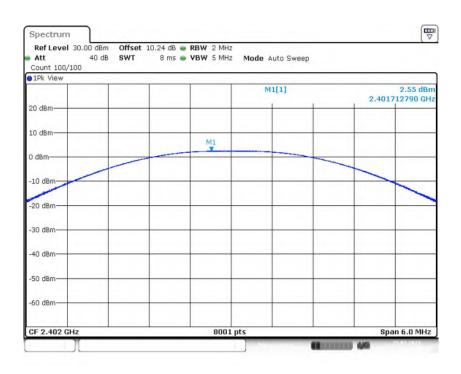


Fig.1 Maximum Peak Output Power (CH0), LE 1M

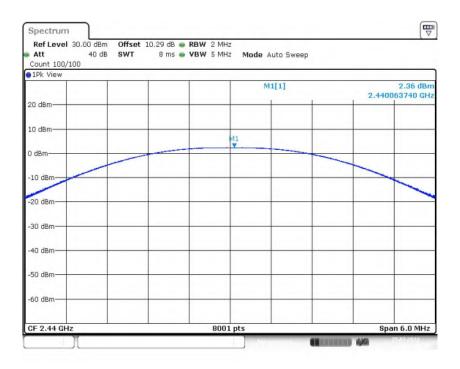


Fig.2 Maximum Peak Output Power (CH19), LE 1M



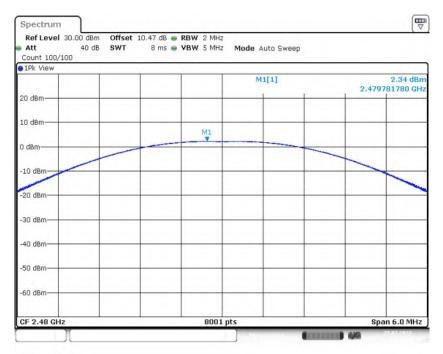


Fig.3 Maximum Peak Output Power (CH39), LE 1M

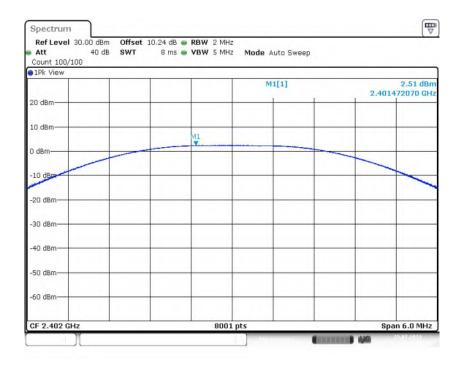


Fig.4 Maximum Peak Output Power (CH0), LE 2M



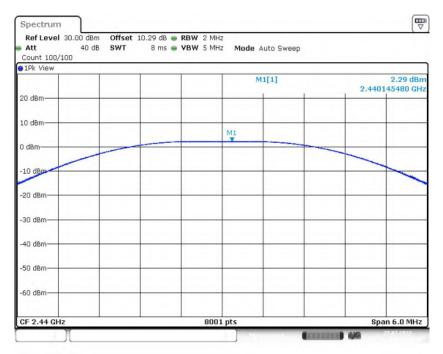


Fig.5 Maximum Peak Output Power (CH19), LE 2M

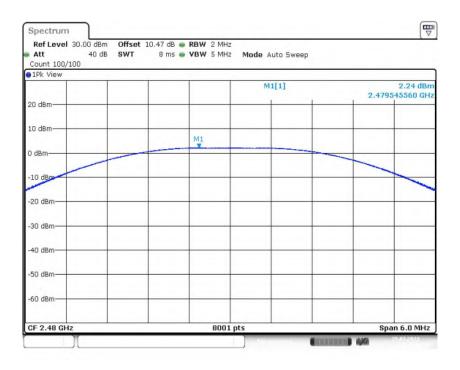


Fig.6 Maximum Peak Output Power (CH39), LE 2M



A.2 Peak Power Spectral Density

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

Measurement Limit:

Standard	Limit (dBm/3 kHz)
FCC 47 CRF Part 15.247(e)	< 8

Measurement Results:

Mode	Frequency (MHz)	Peak Power Sp (dBm/1	•	Conclusion
	2402(CH0)	Fig.7	-7.96	Р
LE 1M	2440(CH19)	Fig.8	-8.05	Р
	2480(CH39)	Fig.9	-8.19	Р
	2402(CH0)	Fig.10	-10.87	Р
LE 2M	2440(CH19)	Fig.11	-11.03	Р
	2480(CH39)	Fig.12	-11.21	Р

See below for test graphs.

Conclusion: PASS



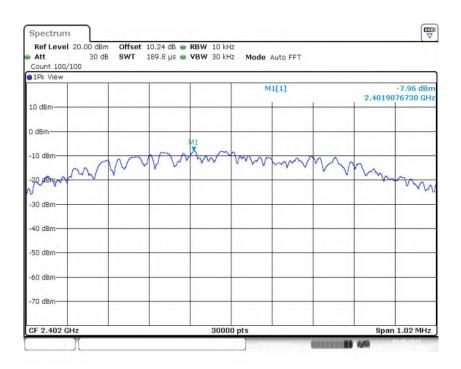


Fig.7 Power Spectral Density (CH0), LE 1M

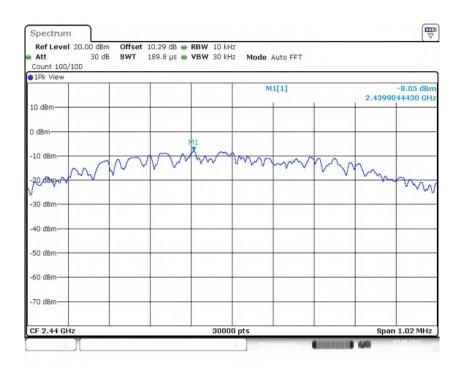


Fig.8 Power Spectral Density (CH19), LE 1M



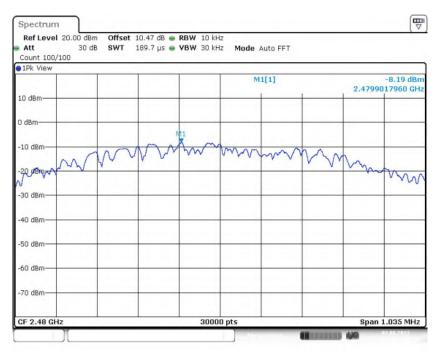


Fig.9 Power Spectral Density (CH39), LE 1M

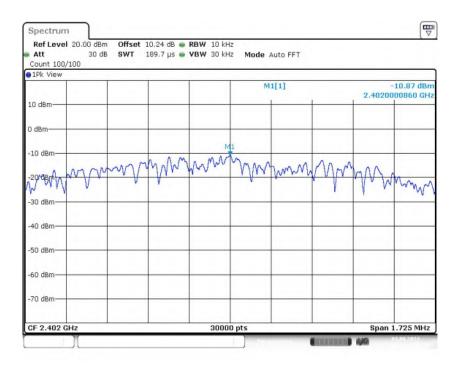


Fig.10 Power Spectral Density (CH0), LE 2M



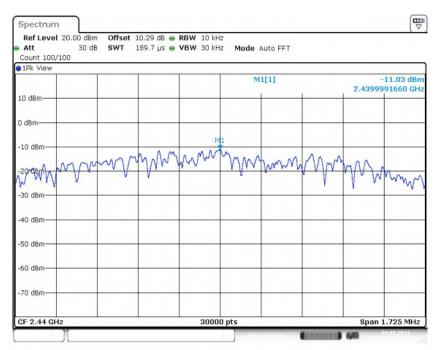


Fig.11 Power Spectral Density (CH19), LE 2M

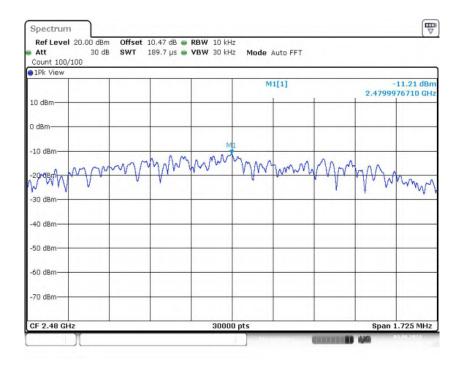


Fig.12 Power Spectral Density (CH39), LE 2M



A.3 6dB Bandwidth

Method of Measurement: See ANSI C63.10-clause 11.8.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.247 (a)	≥ 0.5

Measurement Result:

Mode	Frequency (MHz)	Test Resu	ults (MHz)	Conclusion
	2402(CH0)	Fig.13	0.68	Р
LE 1M	2440(CH19)	Fig.14	0.68	Р
	2480(CH39)	Fig.15	0.69	Р
	2402(CH0)	Fig.16	1.15	Р
LE 2M	2440(CH19)	Fig.17	1.15	Р
	2480(CH39)	Fig.18	1.15	Р

See below for test graphs.

Conclusion: PASS



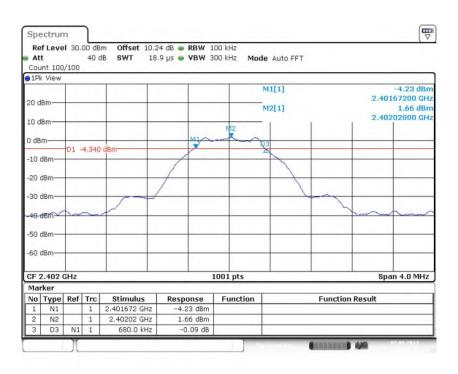


Fig.13 6dB Bandwidth (CH0), LE 1M

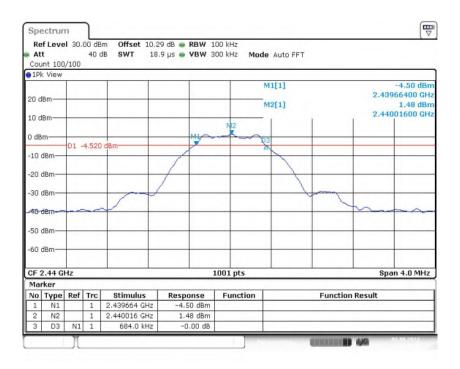


Fig.14 6dB Bandwidth (CH19), LE 1M



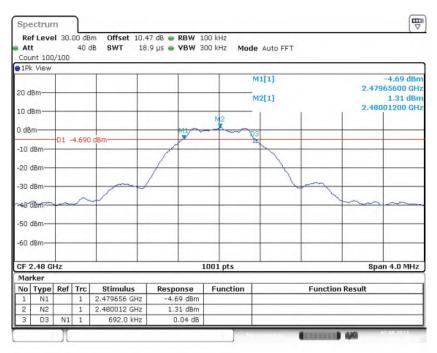


Fig.15 6dB Bandwidth (CH39), LE 1M

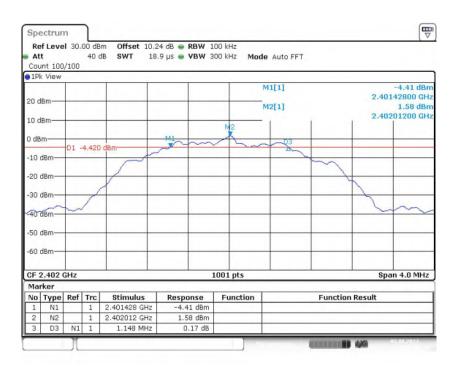


Fig.16 6dB Bandwidth (CH0), LE 2M



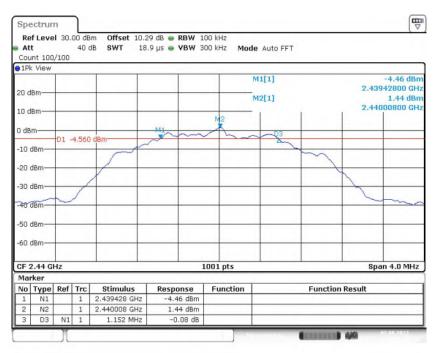


Fig.17 6dB Bandwidth (CH19), LE 2M

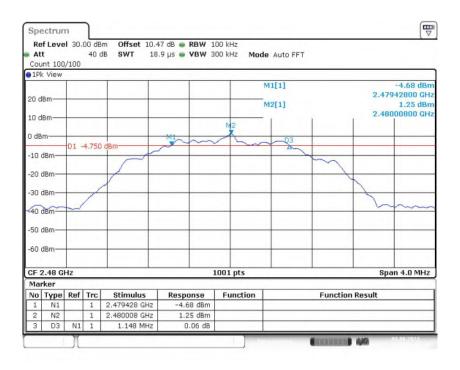


Fig.18 6dB Bandwidth (CH39), LE 2M



A.4 Band Edges Compliance

Method of Measurement: See ANSI C63.10-clause 11.13.3.

Measurement Limit:

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

Measurement Result:

Mode	Frequency (MHz)	Test Resu	Its (dBc)	Conclusion
LE 1M	2402(CH0)	Fig.19	45.99	Р
LE IIVI	2480(CH39)	Fig.20	45.69	Р
I E OM	2402(CH0)	Fig.21	45.50	Р
LE 2M	2480(CH39)	Fig.22	45.87	Р

See below for test graphs.

Conclusion: PASS



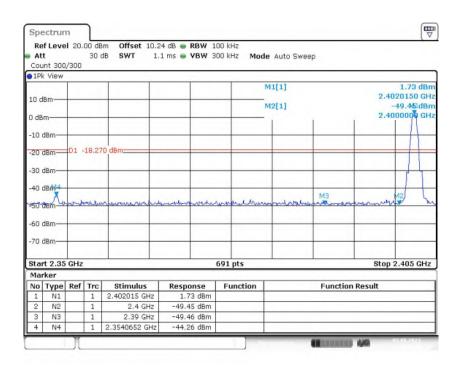


Fig.19 Band Edges (CH0), LE 1M

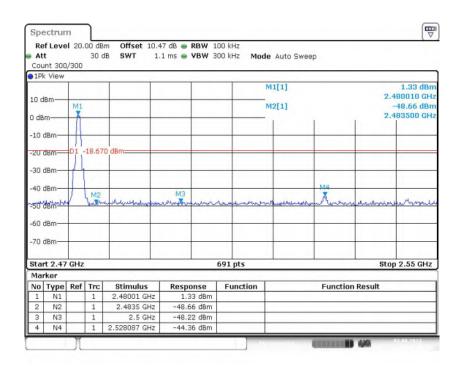


Fig.20 Band Edges (CH39), LE 1M



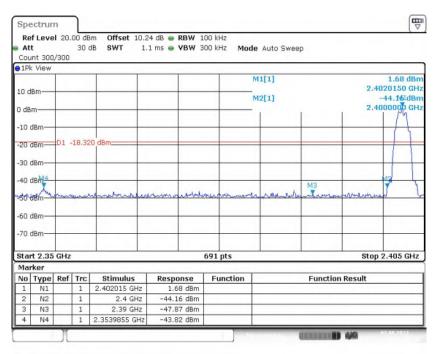


Fig.21 Band Edges (CH0), LE 2M

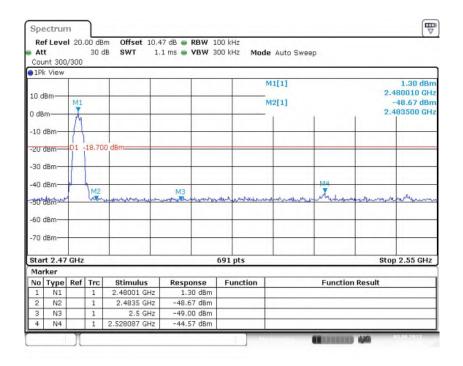


Fig.22 Band Edges (CH39), LE 2M



A.5 Transmitter Spurious Emission - Conducted

Method of Measurement: See ANSI C63.10-clause 11.11.

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CFD Dort 15 247 (d)	20dBm below peak output power in 100 kHz
FCC 47 CFR Part 15.247 (d)	bandwidth

Measurement Results:

Mode	Frequency (MHz)	Frequency Range	Test Results	Conclusion
	2402(CH0)	1GHz-26.5GHz	Fig.23	Р
LE 1M	2440(CH19)	1GHz-26.5GHz	Fig.24	Р
	2480(CH39)	1GHz-26.5GHz	Fig.25	Р
	2402(CH0)	1GHz-26.5GHz	Fig.26	Р
LE 2M	2440(CH19)	1GHz-26.5GHz	Fig.27	Р
	2480(CH39)	1GHz-26.5GHz	Fig.28	Р
1	All channels	30MHz -1GHz	Fig.29	Р

See below for test graphs.

Conclusion: Pass

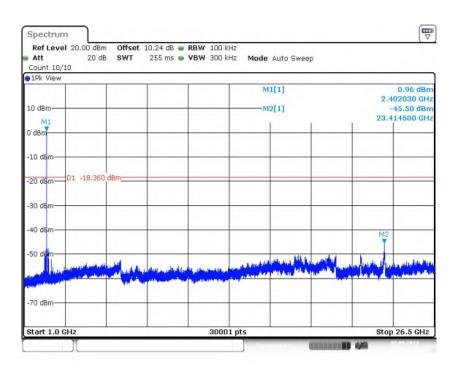


Fig.23 Conducted Spurious Emission (CH0, 1GHz-26.5GHz), LE 1M



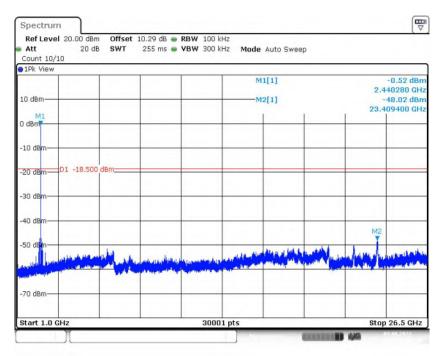


Fig.24 Conducted Spurious Emission (CH19, 1GHz-26.5GHz), LE 1M

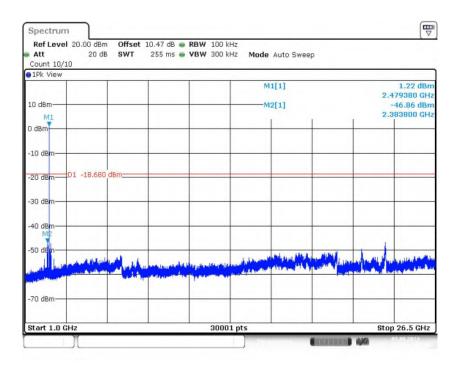


Fig.25 Conducted Spurious Emission (CH39, 1GHz-26.5GHz), LE 1M



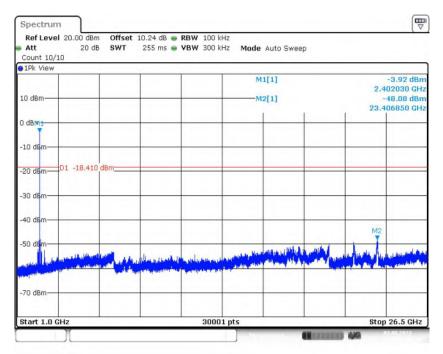


Fig.26 Conducted Spurious Emission (CH0, 1GHz-26.5GHz), LE 2M

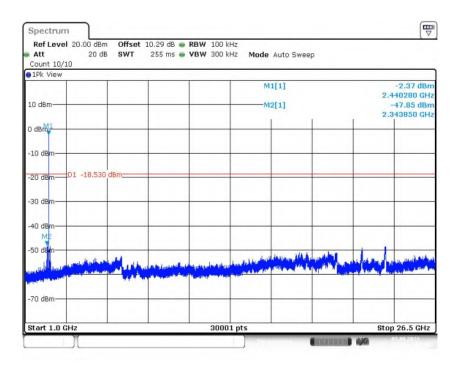


Fig.27 Conducted Spurious Emission (CH19, 1GHz-26.5GHz), LE 2M



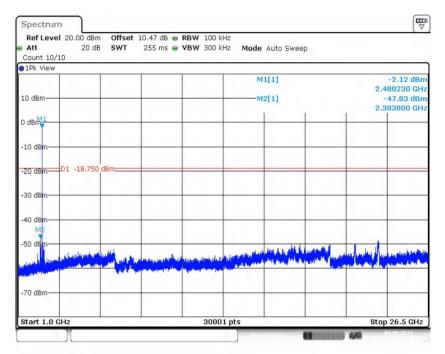


Fig.28 Conducted Spurious Emission (CH39, 1GHz-26.5GHz), LE 2M

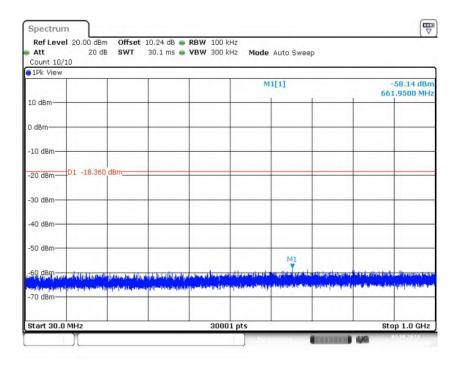


Fig.29 Conducted Spurious Emission (All Channels, 30MHz -1GHz)



A.6 Transmitter Spurious Emission - Radiated

Method of Measurement: See ANSI C63.10-clause 11.11&11.12.

Measurement Limit:

Standard	Limit (dBm)	
FCC 47 CFR Part 15.247, 15.205, 15.209	20dBm 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	RBW/VBW	Sweep Time(s)	
(MHz)	NOW/VOV		
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. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report.



Measurement Results:

Mode	Frequency (MHz)	Frequency Range	Test Results	Conclusion
	2402(CH0)	1 GHz ~18 GHz	Fig.30	Р
	2440(CH19)	1 GHz ~18 GHz	Fig.31	Р
LE 1M	2480(CH39)	1 GHz ~18 GHz	Fig.32	Р
	Restricted Band (CH0)	2.38 GHz ~ 2.45 GHz	Fig.33	Р
	Restricted Band (CH39)	2.45 GHz ~ 2.5 GHz	Fig.34	Р
	2402(CH0)	1 GHz ~18 GHz	Fig.35	Р
	2440(CH19)	1 GHz ~18 GHz	Fig.36	Р
LE 2M	2480(CH39)	1 GHz ~18 GHz	Fig.37	Р
	Restricted Band (CH0)	2.38 GHz ~ 2.45 GHz	Fig.38	Р
	Restricted Band (CH39)	2.45 GHz ~ 2.5 GHz	Fig.39	Р
		9 kHz ~30 MHz	Fig.40	Р
/	All channels	30 MHz ~1 GHz	Fig.41	Р
		18 GHz ~ 26.5 GHz	Fig.42	Р

Worst Case Result:

For LE 1M:

CH0 (1-18GHz)

Frequency	MaxPeak	Limit	Margin	Pol	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)
4981.800000	54.02	74.00	19.98	Н	4.6
9965.142857	52.31	74.00	21.69	Н	9.3
11879.571429	50.15	74.00	23.85	V	12.9
14915.571429	51.77	74.00	22.23	Н	14.7
16641.000000	55.84	74.00	18.16	V	19.5
17937.857143	56.86	74.00	17.14	V	21.3

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
4981.800000	37.90	54.00	16.10	Н	4.6
9965.142857	35.71	54.00	18.29	Н	9.3
11879.571429	37.66	54.00	16.35	V	12.9
14915.571429	39.49	54.00	14.51	Н	14.7
16641.000000	43.48	54.00	10.52	V	19.5
17937.857143	44.60	54.00	9.40	V	21.3



For LE 2M: CH0 (1-18GHz)

Frequency	MaxPeak	Limit	Margin	Pol	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)
4991.700000	52.62	74.00	21.38	Н	4.7
8250.857143	45.66	74.00	28.34	V	6.7
9964.285714	50.66	74.00	23.34	Н	9.3
12845.571429	50.04	74.00	23.96	V	13.2
14941.714286	50.80	74.00	23.20	Н	14.7
17913.000000	55.18	74.00	18.82	V	21.4

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
4991.700000	38.00	54.00	16.00	Н	4.7
8250.857143	35.27	54.00	18.73	V	6.7
9964.285714	36.14	54.00	17.86	Н	9.3
12845.571429	37.90	54.00	16.10	V	13.2
14941.714286	39.52	54.00	14.48	Н	14.7
17913.000000	44.89	54.00	9.11	V	21.4

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.

See below for test graphs.

Conclusion: Pass



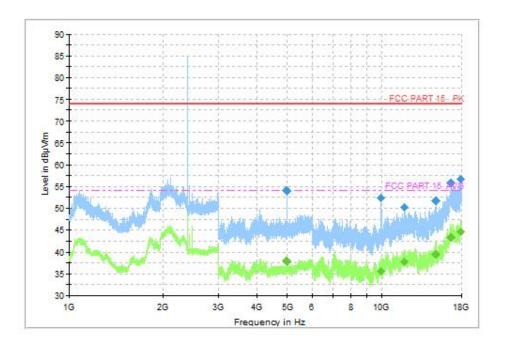


Fig.30 Radiated Spurious Emission (CH0, 1GHz ~18GHz), LE 1M

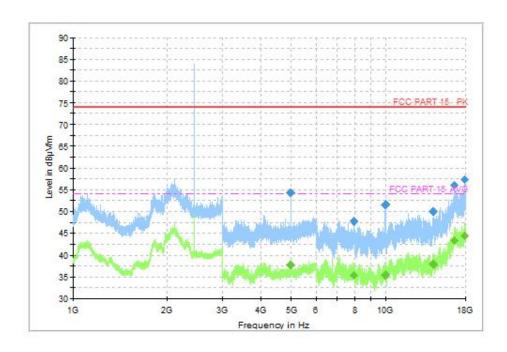


Fig.31 Radiated Spurious Emission (CH19, 1GHz ~18GHz), LE 1M



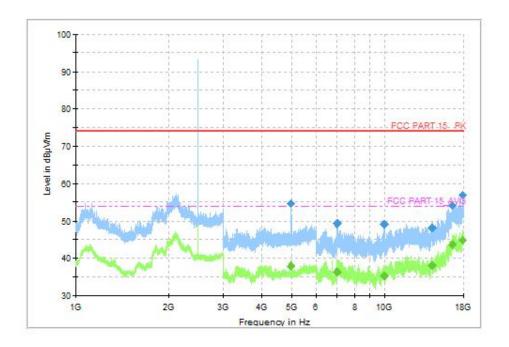


Fig.32 Radiated Spurious Emission (CH39, 1GHz ~18GHz), LE 1M

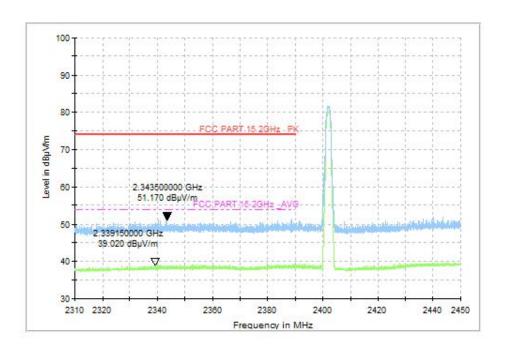


Fig.33 Radiated Band Edges (CH0, 2.38GHz~2.45GHz), LE 1M



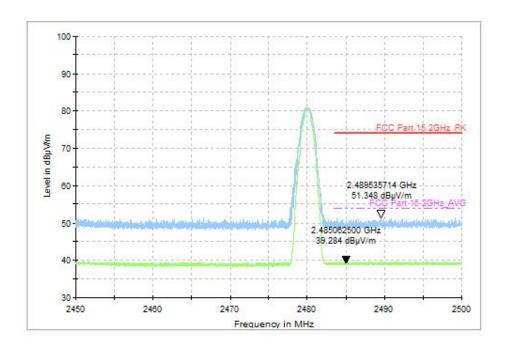


Fig.34 Radiated Band Edges (CH39, 2.45GHz~2.50GHz), LE 1M

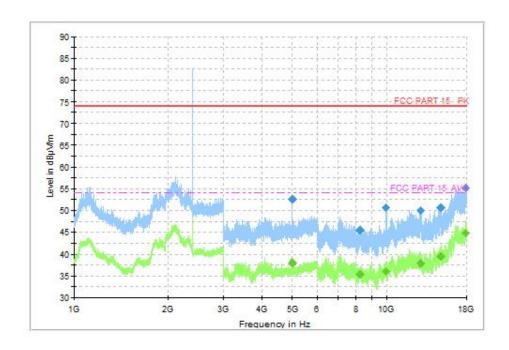


Fig.35 Radiated Spurious Emission (CH0, 1GHz ~18GHz), LE 2M



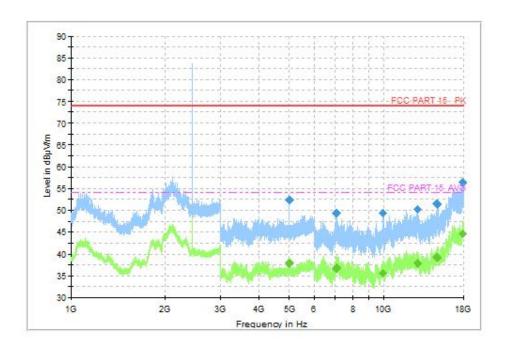


Fig.36 Radiated Spurious Emission (CH19, 1GHz ~18GHz), LE 2M

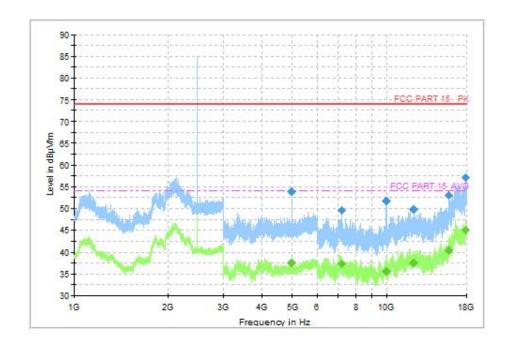


Fig.37 Radiated Spurious Emission (CH39, 1GHz ~18GHz), LE 2M



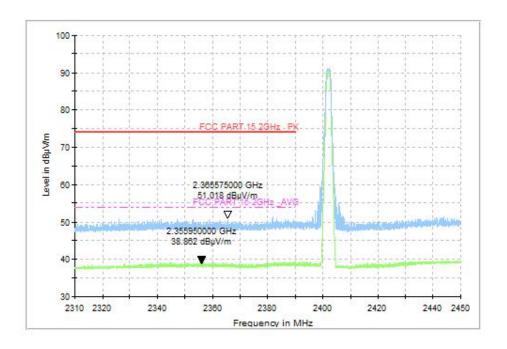


Fig.38 Radiated Band Edges (CH0, 2.38GHz~2.45GHz), LE 2M

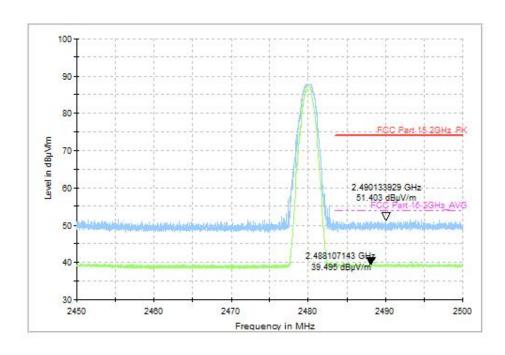


Fig.39 Radiated Band Edges (CH39, 2.45GHz~2.50GHz), LE 2M



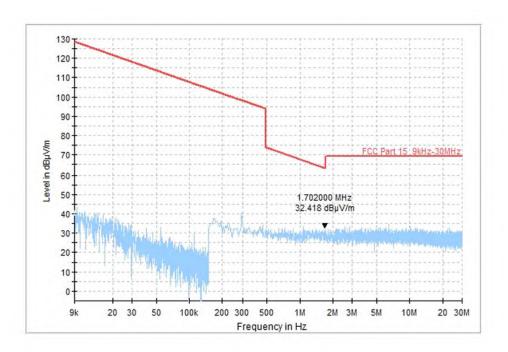


Fig.40 Radiated Spurious Emission (All Channels, 9kHz-30MHz)

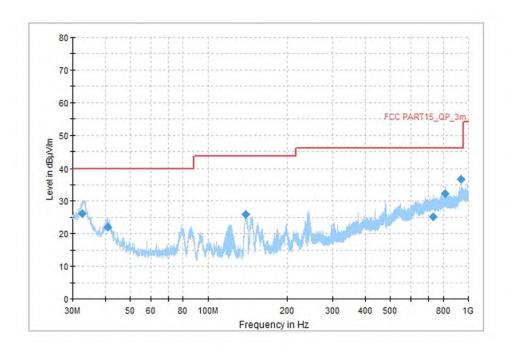


Fig.41 Radiated Spurious Emission (All Channels, 30MHz-1GHz)



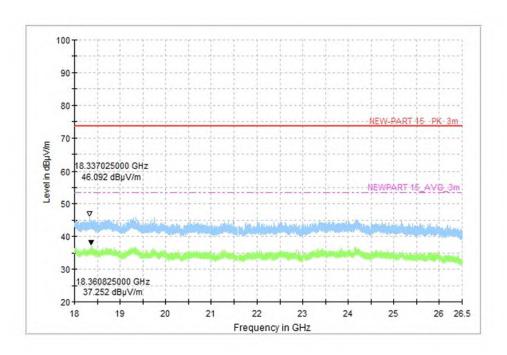


Fig.42 Radiated Spurious Emission (All Channels, 18GHz-26.5 GHz)

END OF REPORT