



TEST REPORT

No. I19D00005-SRD01

For

Client: Bright Box Europe SA

Production: ZCC RB4

Model Name: RB 4.0.0.LTECM1

Brand Name: NO

FCC ID : 2AR3JRB4

Hardware Version: 4

Software Version: 4.4.10

Issued date: 2019-03-13

NOTE

1. The test results in this test report relate only to the devices specified in this report.
2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
3. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

Test Laboratory:

East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

Tel: +86 21 63843300

FAX: +86 21 63843301

E-Mail: welcome@ecit.org.cn

Revision Version

Report Number	Revision	Date	Memo
I19D00005-SRD01	00	2019-03-13	Initial creation of test report

CONTENTS

1. TEST LABORATORY	6
1.1. TESTING LOCATION	6
1.2. TESTING ENVIRONMENT	6
1.3. PROJECT DATA	6
1.4. SIGNATURE	6
2. CLIENT INFORMATION	7
2.1. APPLICANT INFORMATION	7
2.2. MANUFACTURER INFORMATION	7
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	8
3.1. ABOUT EUT	8
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	8
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	8
4. REFERENCE DOCUMENTS	9
4.1. DOCUMENTS SUPPLIED BY APPLICANT	9
4.2. REFERENCE DOCUMENTS FOR TESTING	9
5. TEST RESULTS	10
5.1. SUMMARY OF TEST RESULTS	10
5.2. STATEMENTS	11
6. TEST EQUIPMENTS UTILIZED	12
6.1. CONDUCTED TEST SYSTEM	12
6.2. RADIATED EMISSION TEST SYSTEM	12
7. MEASUREMENT UNCERTAINTY	13
8. TEST ENVIRONMENT	14
ANNEX A. DETAILED TEST RESULTS	15
ANNEX A.1. PEAK OUTPUT POWER-CONDUCTED	15

ANNEX A.2.	PEAK POWER SPECTRAL DENSITY	17
ANNEX A.3.	6DB BANDWIDTH	19
ANNEX A.4.	FREQUENCY BAND EDGES-CONDUCTED.....	21
ANNEX A.5.	CONDUCTED EMISSION	23
ANNEX A.6.	RADIATED EMISSION	27
ANNEX B.	ACCREDITATION CERTIFICATE	37

1. Test Laboratory

1.1. Testing Location

Company Name	East China Institute of Telecommunications
Address	7-8/F., Area G, No.666, Beijing East Road, Shanghai, China
Postal Code	200001
Telephone	+86 21 63843300
Fax	+86 21 63843301
FCC registration No	958356

1.2. Testing Environment

Normal Temperature	15°C-35°C
Relative Humidity	20%-75%

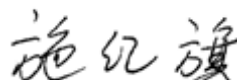
1.3. Project Data

Project Leader	Xu Yuting
Testing Start Date	2019-01-21
Testing End Date	2019-03-04

1.4. Signature



Yang Dejun
(Prepared this test report)



Shi Hongqi
(Reviewed this test report)



Zheng Zhongbin
(Approved this test report)

2. Client Information

2.1.Applicant Information

Company Name	Bright Box Europe SA
Address	Voie du Chariot, 3, 1003, Lausanne, Vaud, Switzerland
Telephone	00852 9634 8252
Postcode	/

2.2.Manufacturer Information

Company Name	Tradezone HK Limited
Address	F,3/F,BLK6,VILLA CONCERTO,SYMPHONYBAY,530 SAI SHA RD,SAI KUNG,N.T.HONG KONG
Telephone	00852 9634 8252
Postcode	/

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

3.1. About EUT

Production	ZCC RB4
Model name	RB 4.0.0.LTECM1
BLE Frequency	2402MHz-2480MHz
BLE Channel	Channel0-Channel39
BLE Modulation	GFSK;
GSM Frequency Band	/
UMTS Frequency Band	/
CDMA Frequency Band	/
LTE Frequency Band	CAT-M1 B2/4/12/13
Additional Communication Function	BLE/2.4G WLAN 802.11 b/g/n20/n40
Extreme Temperature	-30/+50°C
Nominal Voltage	12V
Extreme High Voltage	18V
Extreme Low Voltage	8V

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	Model Name	SN or IMEI	HW Version	SW Version	Date of receipt
N04	RB 4.0.0.LTECM1	/	4	4.4.10	2019-01-21
N01	RB 4.0.0.LTECM1	/	4	4.4.10	2019-01-21

*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	Type	Manufacturer
AE1	RF cable	---	AE1

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

4. Reference Documents

4.1. Documents supplied by applicant

All technical documents are supplied by the client 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, 2400-2483.5MHz, and 5725-5850MHz.	2018/10/ 1
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Test Results

5.1. Summary of Test Results

Measurement Items	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247(b)	/	P
Peak Power Spectral Density	15.247(e)	/	P
6dB Occupied Bandwidth	15.247(a)	/	P
Band Edges Compliance	15.247(d)	/	P
Transmitter Spurious Emission-Conducted	15.247	/	P
Transmitter Spurious Emission-Radiated	15.247	/	P

Note: please refer to Annex A in this test report for the detailed test results.

The following terms are used in the above table.

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

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	Tnom	25°C
Voltage	Vnom	12V
Humidity	Hnom	48%
Air Pressure	Anom	1010hPa

5.2. Statements

The RB 4.0.0.LTECM1, supporting CAT-M1/BLE/WLAN, manufactured by Tradezone HK Limited., is an initial product for testing.

ECIT only performed test cases which identified with P/NP/NA/F results in Annex A.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

6. Test Equipments Utilized

6.1. Conducted Test System

Item	Instrument Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Vector Signal Analyzer	FSQ26	101091	Rohde&Schwarz	2018-05-11	1 Year
2	DC Power Supply	ZUP60-14	LOC-220Z0 06 -0007	TDL-Lambda	2018-05-11	1 Year

6.2. Radiated Emission Test System

Item	Instrument Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2018-05-11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2018-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2017-02-25	3 Year
4	Double- ridged Waveguide Antenna	ETS-3117	00135890	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV216	101380	R&S	2018-05-11	1 Year

Anechoic chamber

Fully anechoic chamber by Frankonia German.

7. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents .
The detailed measurement uncertainty is defined in ECIT documents.

Measurement Items	Range	Confidence Level	Calculated Uncertainty
Peak Output Power-Conducted	2402MHz-2480MHz	95%	$\pm 0.544\text{dB}$
Peak Power Spectral Density	2402MHz-2480MHz	95%	$\pm 0.544\text{dB}$
6dB Bandwidth	2402MHz-2480MHz	95%	$\pm 62.04\text{Hz}$
Frequency Band Edges-Conducted	2390MHz-2488.5MHz	95%	$\pm 0.544\text{dB}$
Conducted Emission	30MHz-2GHz	95%	$\pm 0.90\text{dB}$
Conducted Emission	2GHz-3.6GHz	95%	$\pm 0.88\text{dB}$
Conducted Emission	3.6GHz-8GHz	95%	$\pm 0.96\text{dB}$
Conducted Emission	8GHz-20GHz	95%	$\pm 0.94\text{dB}$
Conducted Emission	20GHz-22GHz	95%	$\pm 0.88\text{dB}$
Conducted Emission	22GHz-26GHz	95%	$\pm 0.86\text{dB}$
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	$\pm 5.66\text{dB}$
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	$\pm 4.98\text{dB}$
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	$\pm 5.06\text{dB}$
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	$\pm 5.20\text{dB}$

8. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB, 30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

ANNEX A. Detailed Test Results

ANNEX A.1. Peak Output Power-Conducted

A.1.1 Measurement Limit

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

A.1.2 Test Condition:

DTS procedure	RBW	VBW	Span	Sweptime
BT-LE	3MHz	10MHz	9MHz	Auto

A.1.3 Test procedure

The measurement is according to ANSI C63.10 clause 11.9.1

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq$ [3 $\times$ RBW].
- Set span $\geq$ [3 $\times$ RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

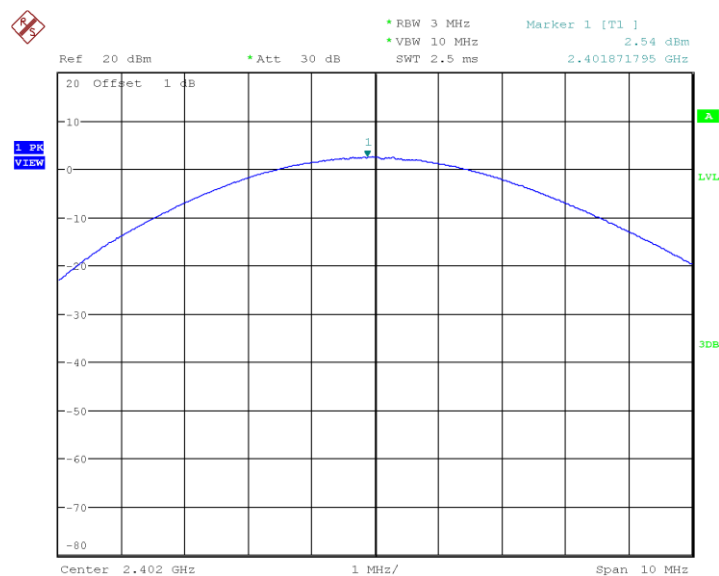
Measurement Results:

For GFSK

Channel	Ch0 2402 MHz	Ch19 2440 MHz	CH39 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	2.54	4.066	4.89	P
	Fig.1	Fig.2	Fig.3	

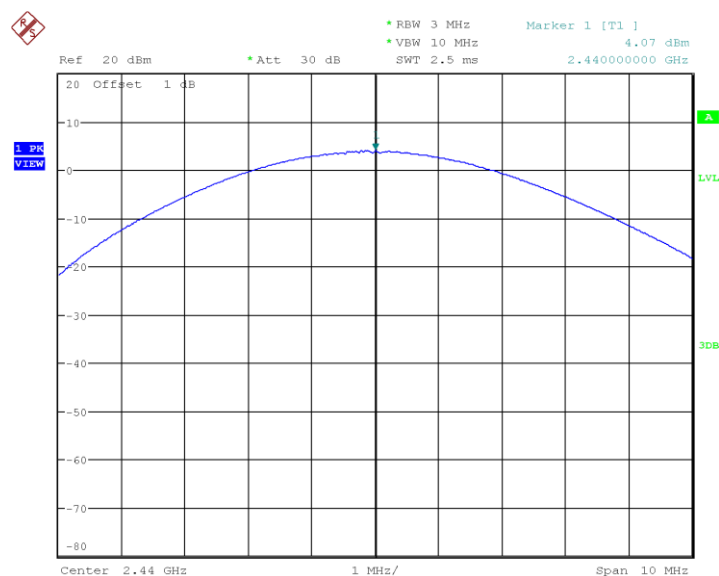
Conclusion: PASS

Test graphs an below



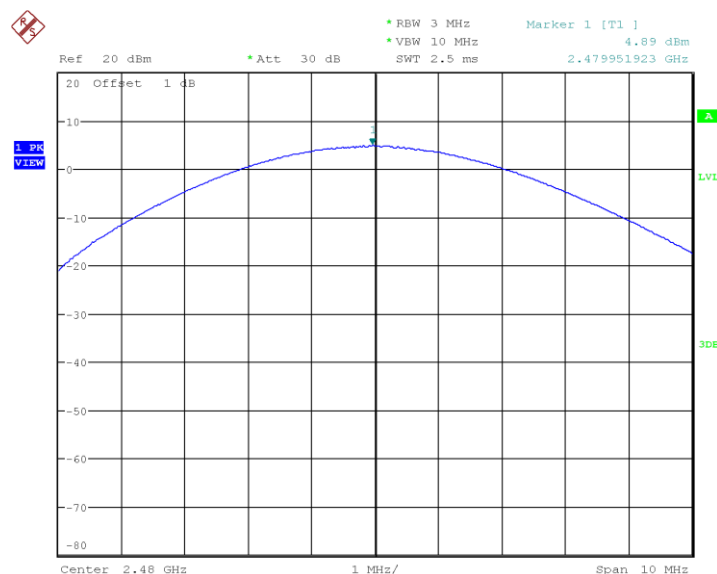
Date: 18.FEB.2019 04:20:21

Fig.1 Peak Conducted Output Power CH0, DH1



Date: 18.FEB.2019 04:21:22

Fig.2 Peak Conducted Output Power CH19, DH1



Date: 18.FEB.2019 04:22:15

Fig.3 Peak Conducted Output Power CH39, DH1

ANNEX A.2. Peak Power Spectral Density

A.2.1 Measurement Limit:

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

A.2.2 Test procedures

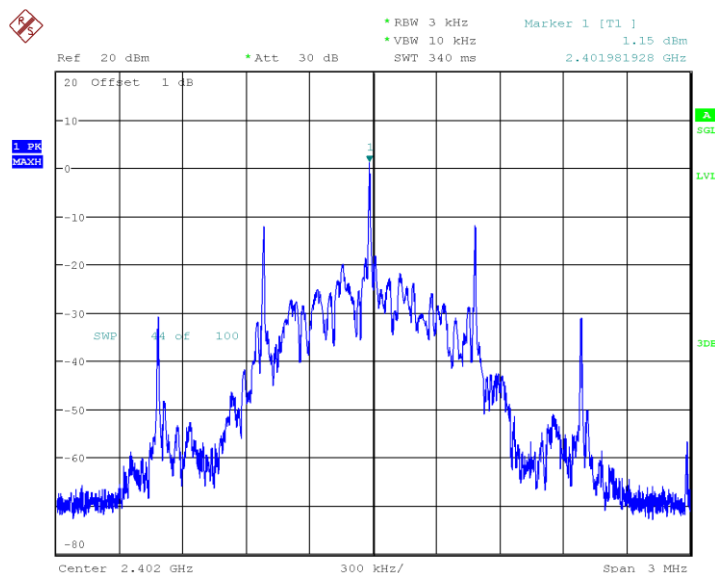
The measurement is according to ANSI C63.10 clause 11.10.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.
5. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Measurement Results:

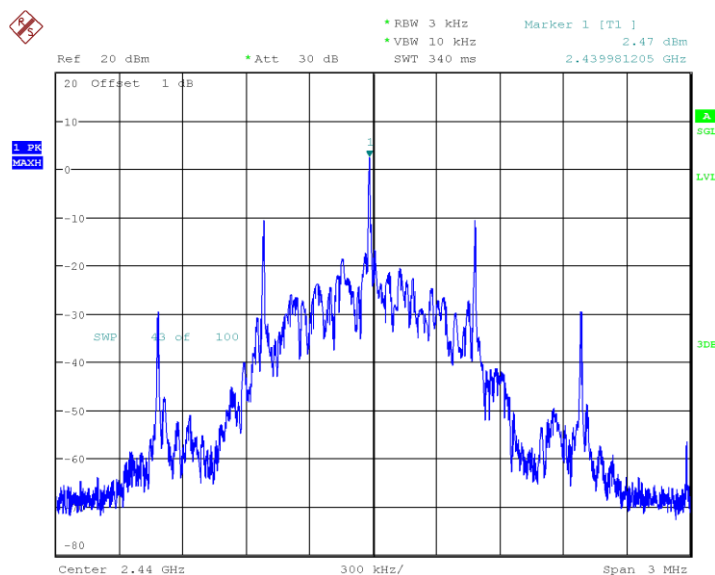
Mode	Channel	Power Spectral Density(dBm/3kHz)		Conclusion
BT-LE	00	Fig.4	1.151	P
	19	Fig.5	2.473	P
	39	Fig.6	3.542	P

Test figure as below:



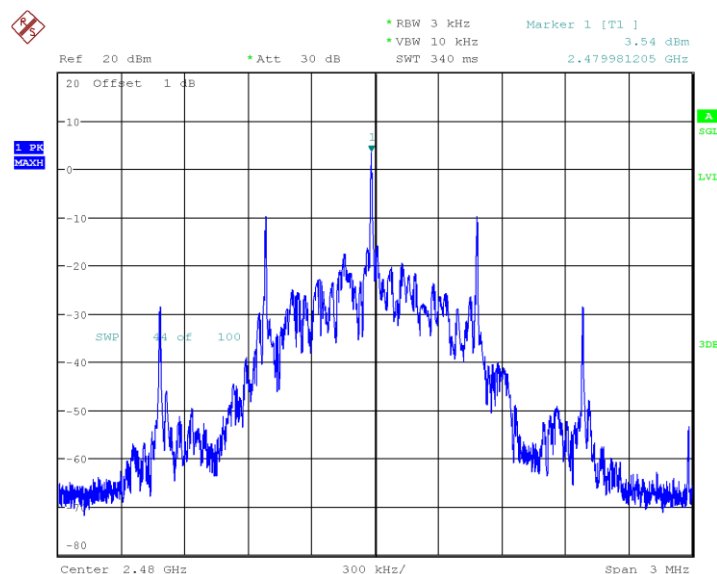
Date: 18.FEB.2019 04:26:42

Fig.4 Power spectral density: CH0



Date: 18.FEB.2019 04:27:47

Fig.5 Power spectral density: CH19



Date: 18.FEB.2019 04:28:39

Fig.6 Power spectral density: CH39

ANNEX A.3. 6dB Bandwidth

A.3.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (a) (1)	$\geq 500k$

A.3.2 Test procedures

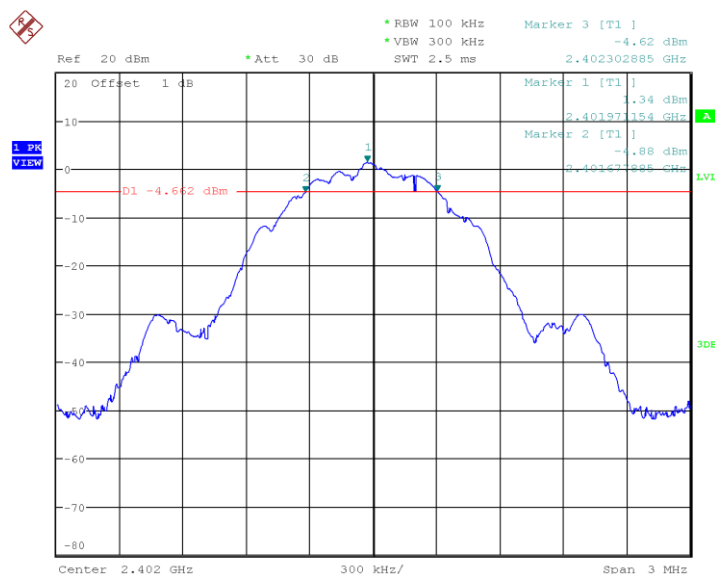
The measurement is according to ANSI C63.10 clause 11.8.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

For GFSK

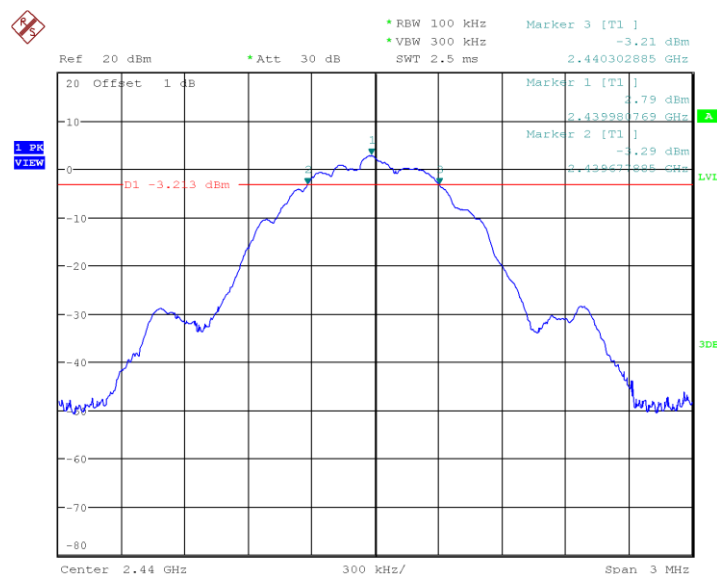
Channel	6dB Bandwidth (kHz)		Conclusion
0	Fig.7	625	P
39	Fig.8	625	P
78	Fig.9	620	P

Test graphs as below:



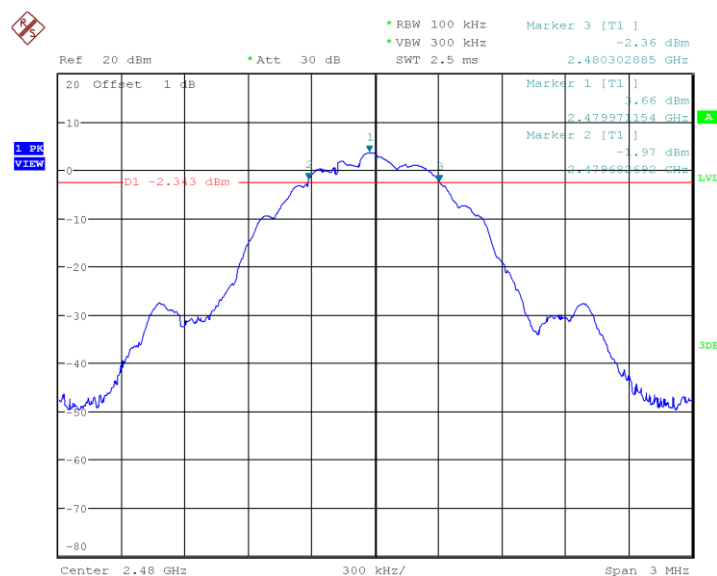
Date: 18.FEB.2019 04:23:28

Fig.7 6dB Bandwidth: Ch0



Date: 18.FEB.2019 04:24:31

Fig.8 6dB Bandwidth: Ch19



Date: 18.FEB.2019 04:25:29

Fig.9 6dB Bandwidth: Ch39

ANNEX A.4. Frequency Band Edges-Conducted

A.4.1 Measurement Limit:

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

A.4.2 Test procedure

The measurement is according to ANSI C63.10 clause 11.13.2

- 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: Coupled.
- 5) Resolution bandwidth: 100 kHz.6) Video bandwidth: 300 kHz.7) Detector: Peak.8) Trace: Max hold.

Measurement results

For GFSK

Channel	Band Edge Power (dBc)	Conclusion
00	Fig.10	P
39	Fig.11	P

Conclusion: PASS

Test graphs an below

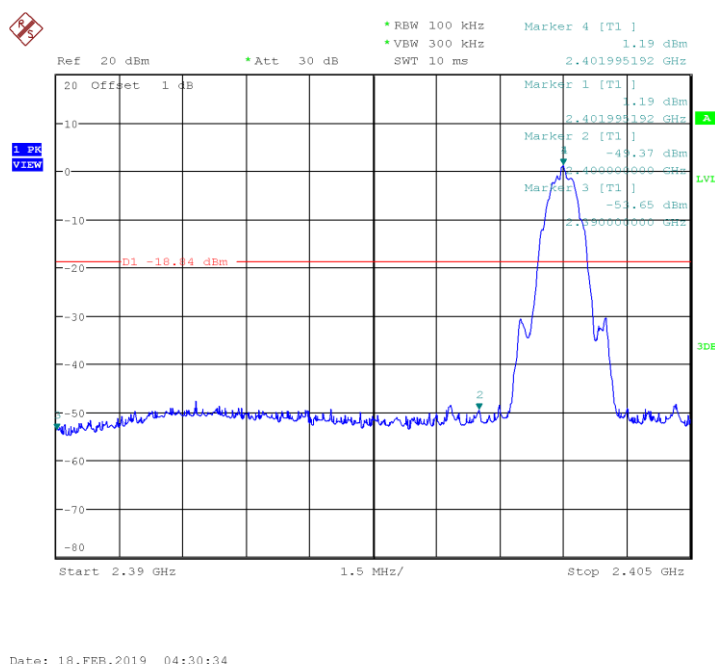
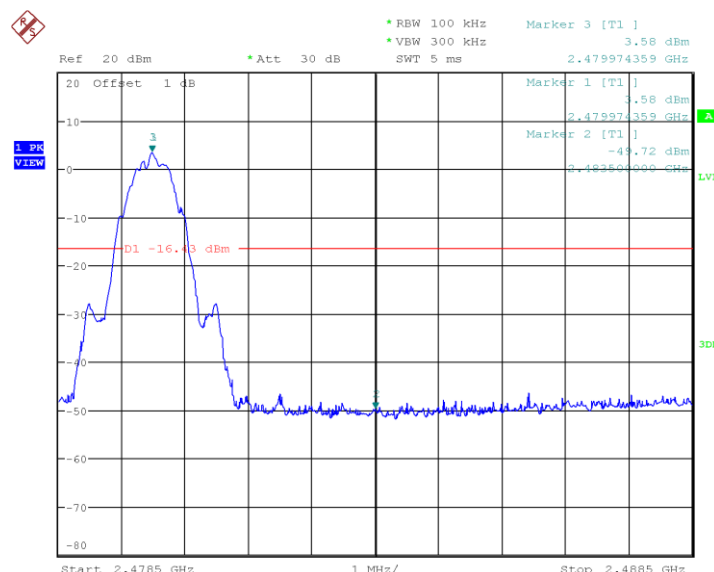


Fig.10 Frequency Band Edge: GFSK, Ch0



Date: 18.FEB.2019 04:34:54

Fig.11 Frequency Band Edge: GFSK, Ch39

ANNEX A.5. Conducted Emission

A.5.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part15.247 (d)	20dB below peak output power in 100KHz bandwidth

A.5.2 Test procedures

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.

Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to ≥ 1.5 times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

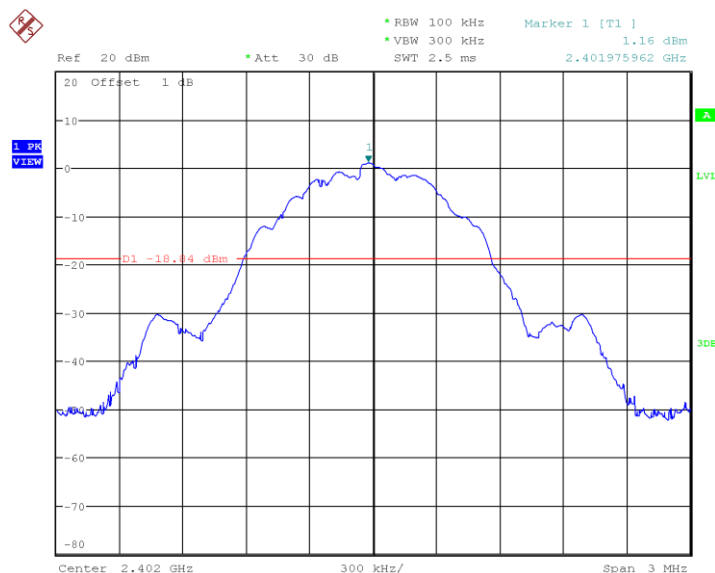
12. Set the center frequency and span to encompass frequency range to be measured.
13. Set the RBW = 100 kHz.
14. Set the VBW $\geq [3 \times \text{RBW}]$.
15. Detector = peak.
16. Sweep time = auto couple.
17. Trace mode = max hold.
18. Allow trace to fully stabilize.
19. Use the peak marker function to determine the maximum amplitude level.

Measurement Results:

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.12	P
	30MHz~26GHz	Fig.13	P
Ch19 2440MHz	Center Freq.	Fig.14	P
	30MHz~26GHz	Fig.15	P
Ch39 2480MHz	Center Freq.	Fig.16	P
	30MHz~26GHz	Fig.17	P

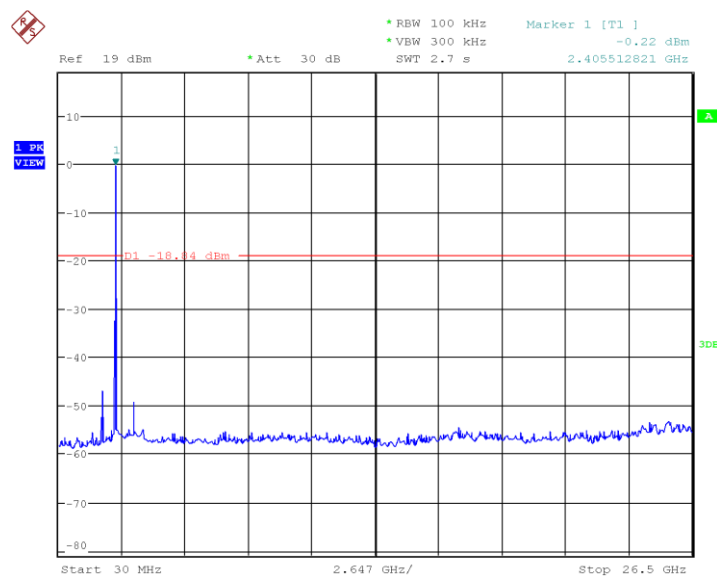
Conclusion: PASS

Test graphs as below



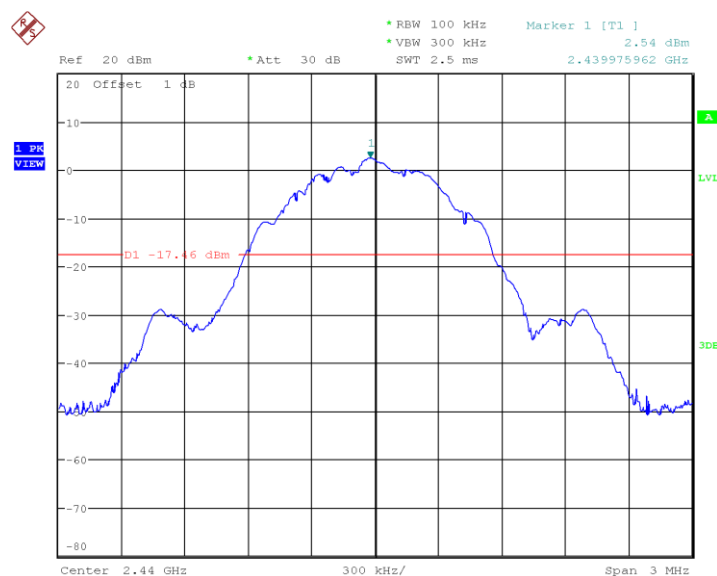
Date: 18.FEB.2019 04:29:58

Fig.12 Conducted spurious emission: Ch0, 2402MHz



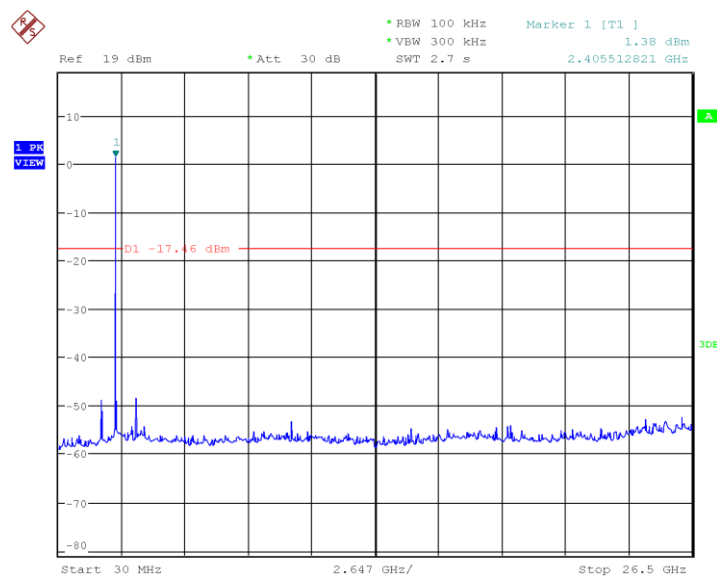
Date: 18.FEB.2019 04:31:08

Fig.13 Conducted spurious emission: Ch0, 30MHz~26GHz



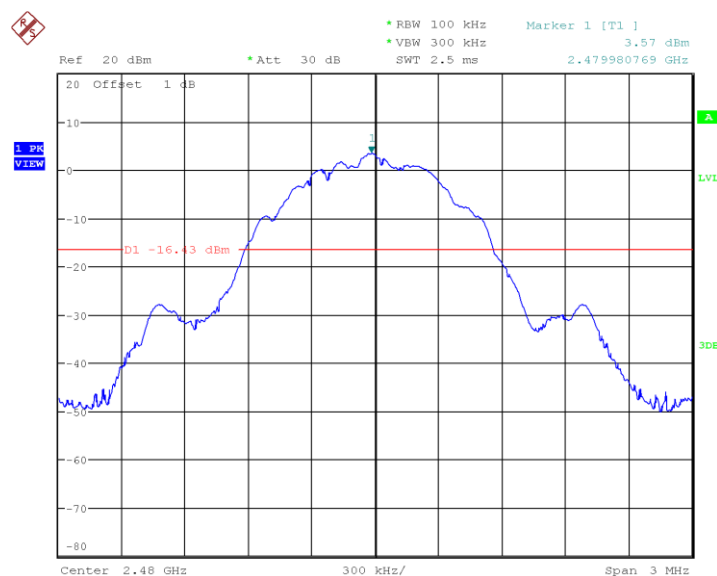
Date: 18.FEB.2019 04:31:55

Fig.14 Conducted spurious emission: Ch19, 2440MHz



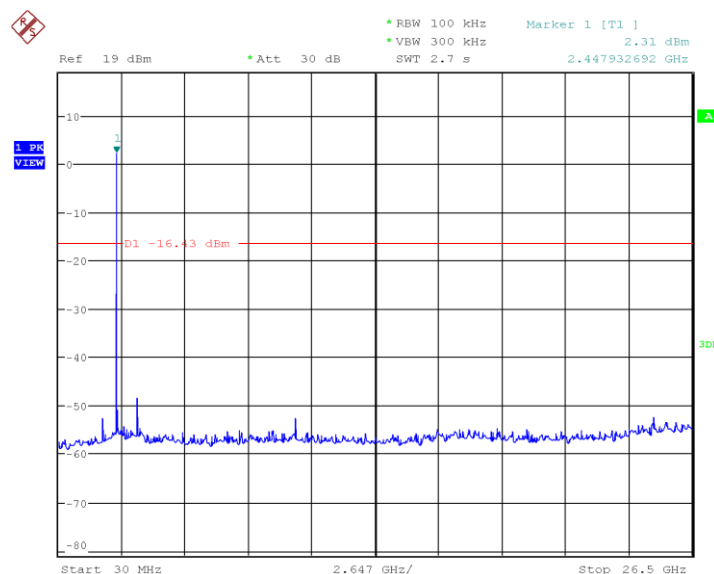
Date: 18.FEB.2019 04:33:11

Fig.15 Conducted spurious emission: Ch19, 30MHz~26GHz



Date: 18.FEB.2019 04:34:18

Fig.16 Conducted spurious emission: Ch39, 2480MHz



Date: 18.FEB.2019 04:35:28

Fig.17 Conducted spurious emission: Ch39, 30MHz~26GHz

ANNEX A.6. Radiated Emission

A.6.1 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 (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

A.6.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and

wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level. 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	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

A.6.3 Measurement Results:

A “reference path loss” is established and A_{Rpi} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

A_{Rpi} = Cable loss + Antenna Gain-Preamplifier gain

Result= P_{Mea} + A_{Rpi}

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	30MH~1GHz	Fig.18	P
	1GHz~3GHz	Fig.19	P
	3GHz~18GHz	Fig.20	P
Power (low)	2.31GHz~2.5GHz	Fig.21	P

Channel	Frequency Range	Test Results	Conclusion
Ch39 2480MHz	30MH~1GHz	Fig.22	P
	1GHz~3GHz	Fig.23	P
	3GHz~18GHz	Fig.24	P
Power (high)	2.31GHz~2.5GHz	Fig.25	P

Ch0 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.7	22.05	-27.5	49.55	V
39.3	35.94	-26.3	62.24	V
77.4	29.59	-31.3	60.89	H
250.0	34.43	-26.8	61.23	H
937.5	41.49	-13.7	55.19	H
1000.0	46.22	-13	59.22	V

Ch0 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
1250.1	48.8	-9.9	58.7	H
1625.3	52.19	-5	57.19	V
1750.1	53.02	-3	56.02	H
2613.0	54.56	3.9	50.66	H
2781.3	54.62	4.3	50.32	V
2874.6	56.64	5.5	51.14	V

Ch0 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2613.0	42.53	3.9	38.63	H
2781.3	42.61	4.3	38.31	V
2874.6	44.15	5.5	38.65	V

Ch0 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
4804.3	51.05	-0.1	51.15	H
14299.5	55.92	20.8	35.12	H
14850.2	55.01	20.5	34.51	H
15447.2	56.61	22.7	33.91	H

16387.5	58.21	25.7	32.51	H
17125.8	60.14	27	33.14	V

Ch0 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14299.5	43.44	20.8	22.64	H
14850.2	43.16	20.5	22.66	H
15447.2	44.08	22.7	21.38	H
16387.5	46.14	25.7	20.44	H
17125.8	47.87	27	20.87	V

Ch39 30MHz-1GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
39.9	37.15	-26.2	63.35	V
83.8	27.69	-30.9	58.59	H
140.1	26.5	-31.2	57.7	H
223.0	34.47	-27.8	62.27	H
269.1	32.76	-26.6	59.36	H
480.0	27.07	-22.2	49.27	H

Ch39 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
1810.2	50.37	-0.6	50.97	H
1889.4	50.35	0	50.35	H
1997.1	49.7	-1.1	50.8	V
2117.2	49.21	-1.2	50.41	V
2228.8	52.89	0.5	52.39	H
2687.7	55.02	4.6	50.42	V

Ch39 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2687.7	42.76	4.6	38.16	V

Ch39 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
3309.3	50.78	-3	53.78	V
9161.6	47.92	8.6	39.32	H
10795.7	49.21	12.6	36.61	H
12968.5	52.67	17.3	35.37	H
14292.0	55.37	20.7	34.67	V
15978.4	59.2	25.1	34.1	V

Ch39 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14292.0	43.01	20.7	22.31	V
15978.4	46.83	25.1	21.73	V

Note: Only the worst case is written in the report.

Conclusion: PASS

Test graphs as below:

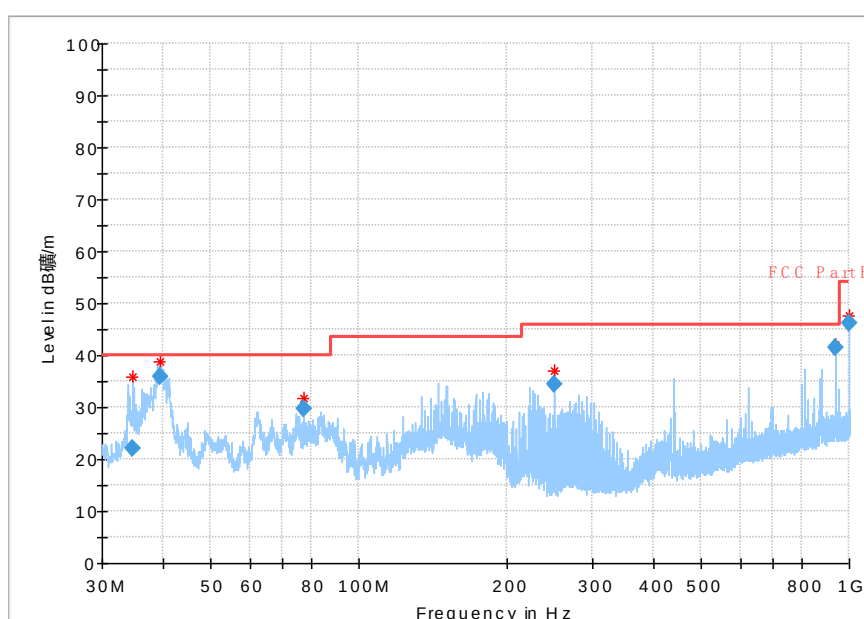


Fig.18 Radiated emission: Ch0, 30MHz~1GHz

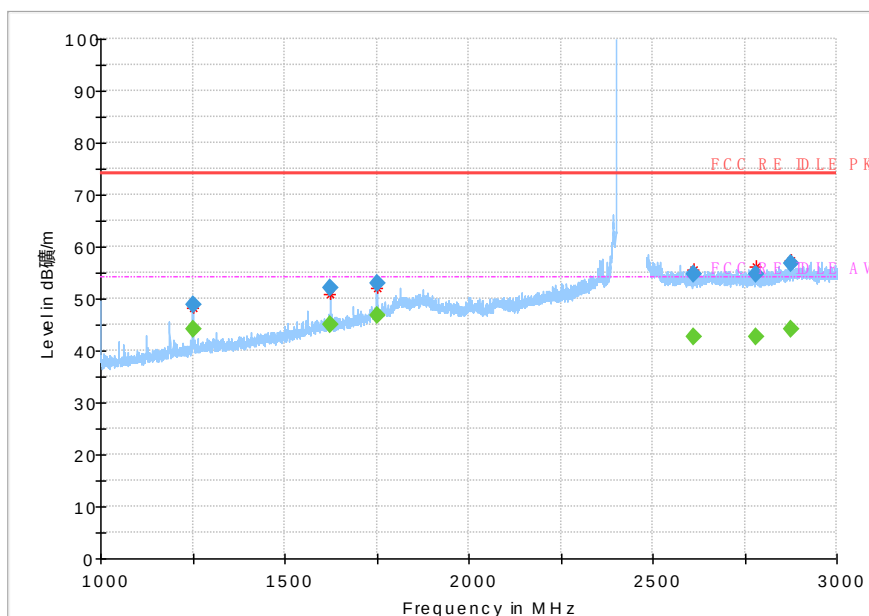


Fig.19 Radiated emission: Ch0, 1GHz~3GHz

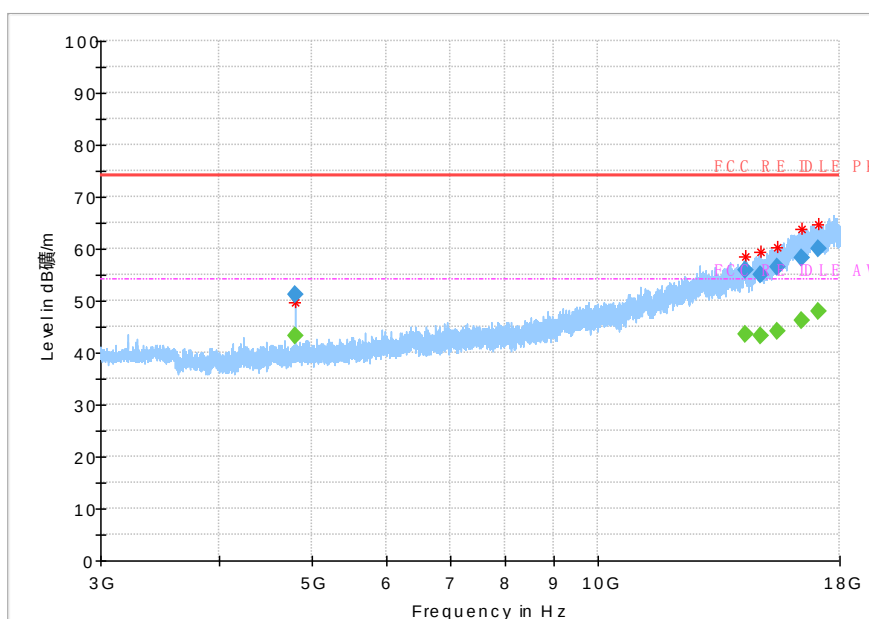


Fig.20 Radiated emission: Ch0, 3GHz~18GHz

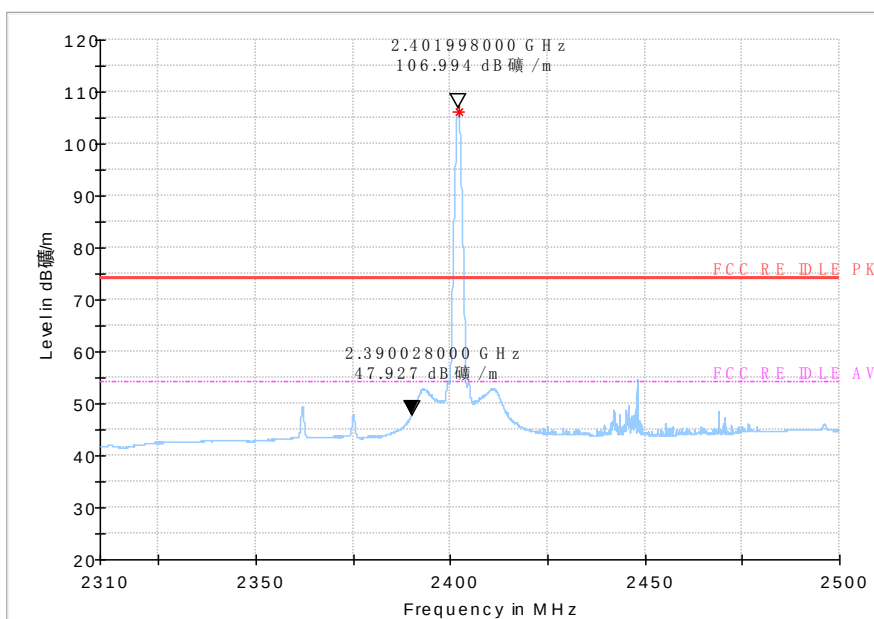
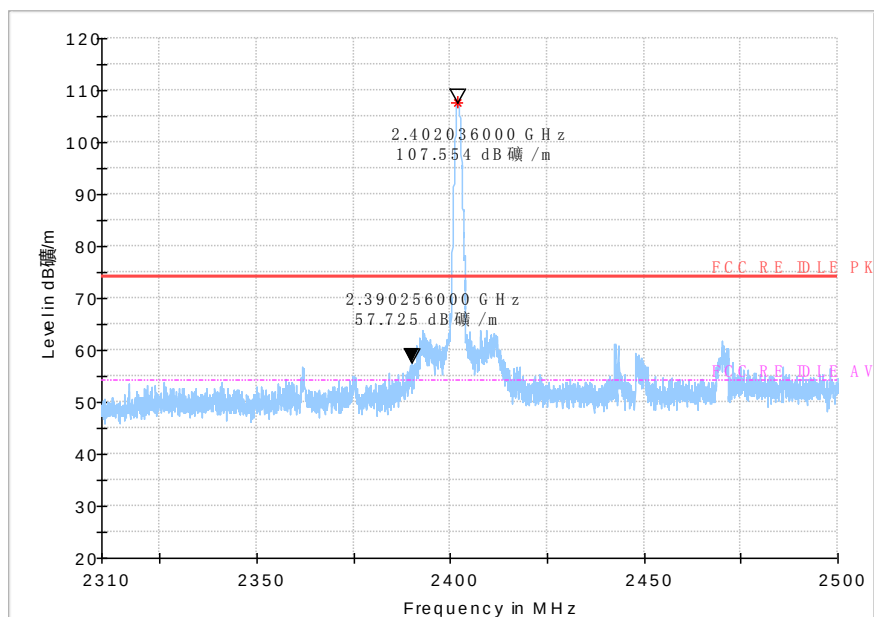


Fig.21 Bandedge:ch0

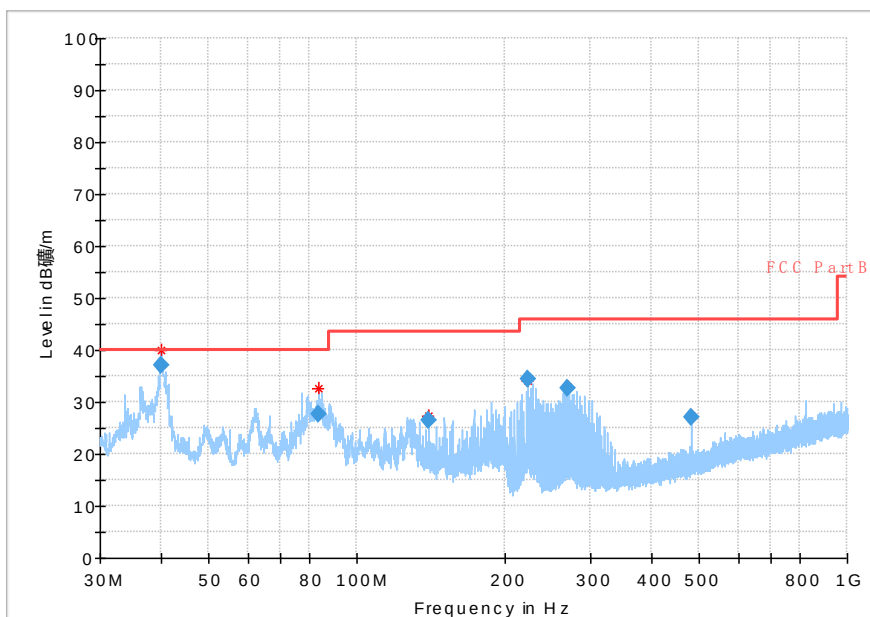


Fig.22 Radiated emission: Ch39, 30MHz~1GHz

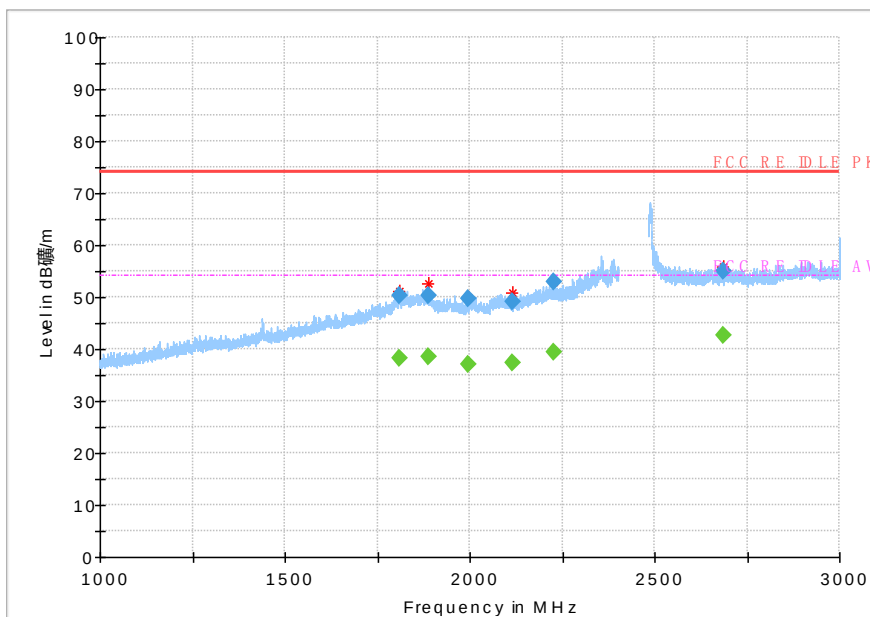


Fig.23 Radiated emission: Ch39, 1GHz~3GHz

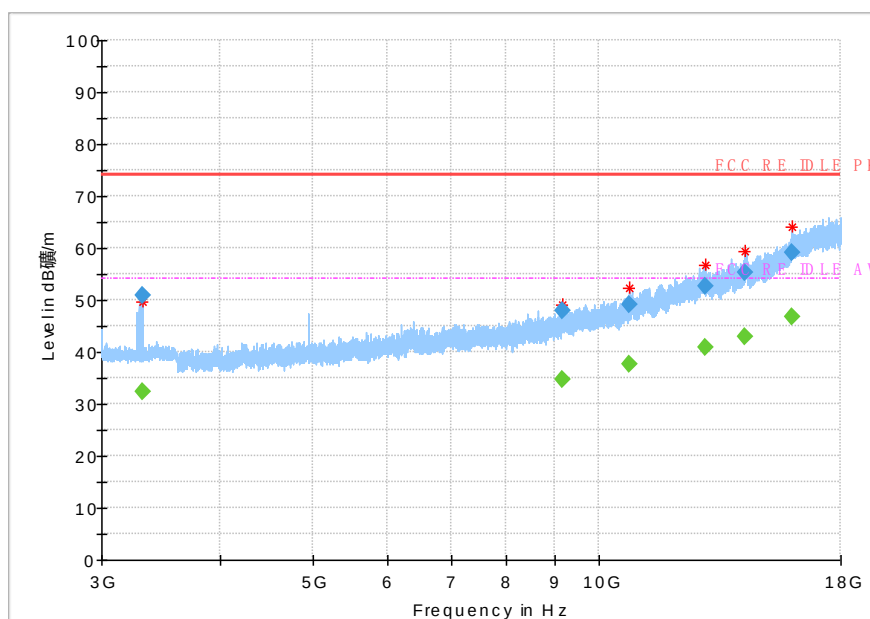
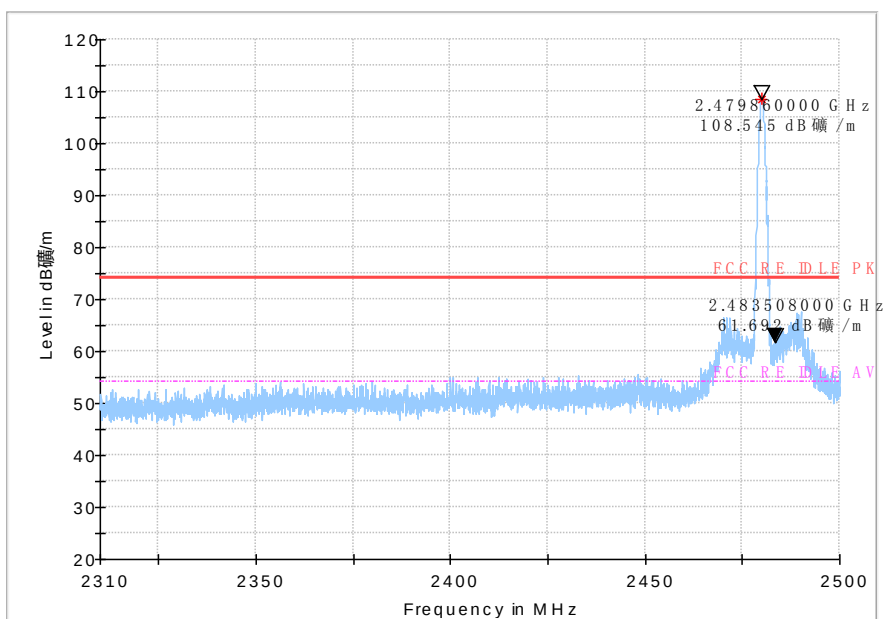


Fig.24 Radiated emission: Ch39, 3GHz~18GHz



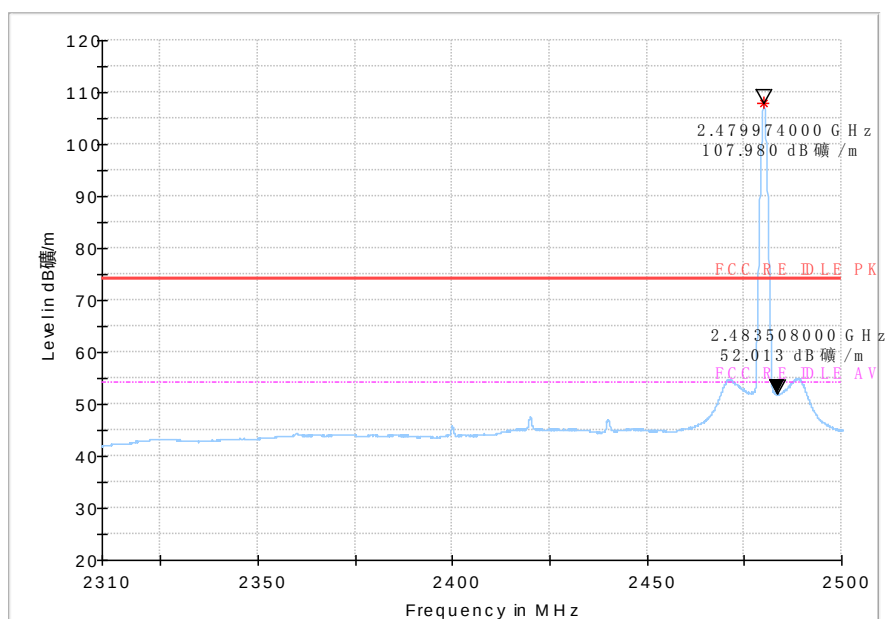
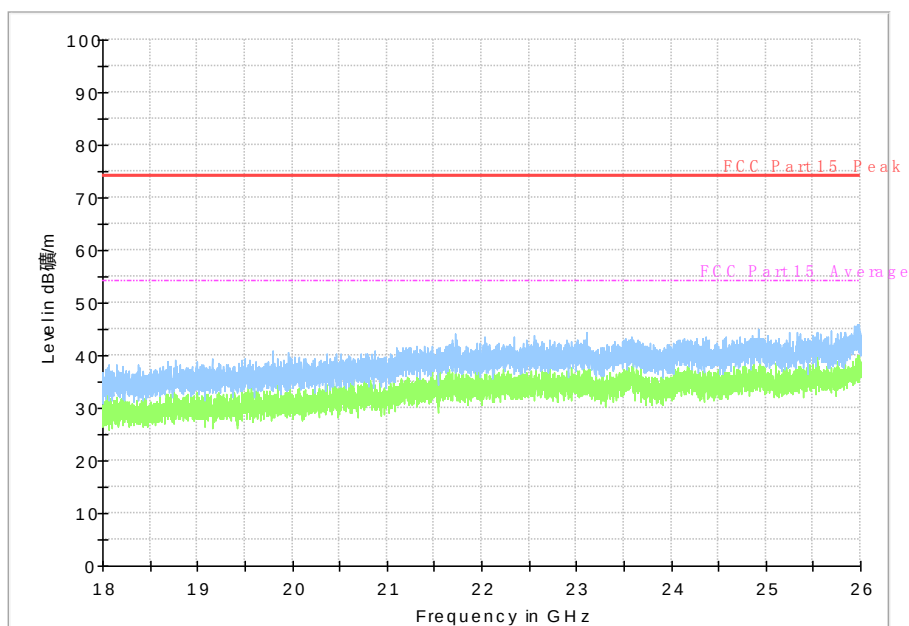


Fig.25 Bandedge:ch39



ALL Channel 18GHz~26GHz

ANNEX B. Accreditation Certificate

*****End of the Report*****