



FCC PART 15C TEST REPORT

No. 2013TAR308

for

TCT Mobile Limited

HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone

Model Name: Megane 1SIM AWS TMO

FCC ID : RAD393

IC ID : 9238A-0024

with

Hardware Version: PIO4

Software Version: SWL27

Issued Date: 2013-08-16



DAR accreditation (DIN EN ISO/IEC 17025): No. D-PL-12123-01-01

FCC 2.948 Listed: No.733176

IC O.A.T.S listed: No.6629B

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 TMC Beijing.

Test Laboratory:

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

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1. Test Laboratory

1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: Shouxiang Science Building, No 51, Xueyuan Road, Haidian District,
Beijing, P.R.China
Postal Code: 100191
Telephone: 00861062304633
Fax: 00861062304633

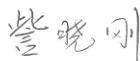
1.2. Testing Environment

Normal Temperature: 15-35°C
Extreme Temperature: -20/+55°C
Relative Humidity: 20-75%

1.3. Project data

Project Leader: Zi Xiaogang
Testing Start Date: 2013-04-08
Testing End Date: 2013-08-14

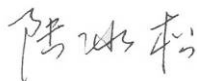
1.4. Signature



Zi Xiaogang
(Prepared this test report)



Sun Xiangqian
(Reviewed this test report)



Lu Bingsong
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCT Mobile Limited
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2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 12F/B, TCL Tower, Gaoxin Nanyi Road, Nanshan District, Shenzhen,
Guangdong, P.R. China. 518057
Contact: Lv Meixian
Email: meixian.lv@tcl.com
Telephone: 0086-755-33956929
Fax: 0086-755-36645072

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

3.1. About EUT

Description	HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone
Model Name	Megane 1SIM AWS TMO
FCC ID	RAD393
IC ID	9238A-0024
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation(LE mode)	GFSK
Number of Channels(LE mode)	40
Power Supply	3.8V DC by Battery

Note: The EUT is a variant model of ONE TOUCH 5020A. Only RSE have been retested, the other result is coming from ONE TOUCH 5020A.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
N53	013778000256624	PIO4	SWL27
N39	013778000000436	PIO4	SWL27

*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
AE1	Battery /
AE2	Battery /
AE3	Travel charger /

AE1

Model	CAB60BA000C1
Manufacturer	SCUD
Capacitance	1400mAh
Nominal voltage	3.7V

AE2

Model	CAB1400002C1
Manufacturer	SCUD
Capacitance	1400mAh
Nominal voltage	3.7V

AE3

Model	CBA3007AG0C1
Manufacturer	BYD
Length of cable	/

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

3.4. Normal Accessory setting

Fully charged battery should be used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

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

4.2. Reference Documents for testing

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

	FCC CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	Oct,10
FCC Part15	15.209 Radiated emission limits, general requirements;	2009
	15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	Edition
ANSI C63.10	Procedures for testing compliance of a wide variety of unlicensed wireless devices	2009
	Spectrum Management and Telecommunications - Radio Standards Specification	
RSS - Gen Issue3	General Requirements and Information for the Certification of Radiocommunication Equipment	2010-12
RSS -210 Issue8	Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment	2010-12

5. LABORATORY 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. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

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	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 2000 MHz

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

Abbreviations used in this clause:

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

SUMMARY OF MEASUREMENT RESULTS	IC	Sub-clause	Verdict
Peak Output Power - Conducted	RSS-210 A8.4 (2)	15.247 (b)(1)	P
Frequency Band Edges	RSS-210 A8.5	15.247 (d)	P
Conducted Emission	RSS-210 A8.5	15.247 (d)	P
Radiated Emission	RSS-210 A8.5	15.247, 15.205, 15.209	P
6dB Bandwidth	RSS-210 A8.1	15.247 (a)(2)	P
Maximum Power Spectral Density Level	RSS-210 A8.1	15.247(e)	P
AC Powerline Conducted Emission	RSS-Gen 7.2.2	15.107, 15.207	P
Receiver Radiation Emission	RSS-Gen 7.2.2	15.109,2.1053	P

Please refer to **ANNEX A** for detail.

The measurement is made according to ANSI C63.10.

6.2. Statements

TMC has evaluated the test cases requested by the applicant /manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2

7. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Vector Signal Analyzer	FSU26	200030	Rohde & Schwarz	2014-06-12
2	Bluetooth Tester	CBT32	100649	Rohde & Schwarz	2014-02-03

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2013-11-07
2	EMI Antenna	VULB 9163	9163482	Schwarzbeck	2014-02-17
3	EMI Antenna	3117	00119024	EMCO	2014-02-03
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	2014-06-30
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	ETS-Lindgren	2014-06-30
6	Bluetooth Tester	CBT	100153	Rohde & Schwarz	2013-09-13
7	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2014-03-17
8	Pre-amplifier(18GHz)	SCU18	1005277	Rohde & Schwarz	/
9	Pre-amplifier(26.5GHz)	SCU26	1006788	Rohde & Schwarz	/
10	Loop Antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2014-12-20

Anechoic chamber

Fully anechoic chamber by Frankonia German.

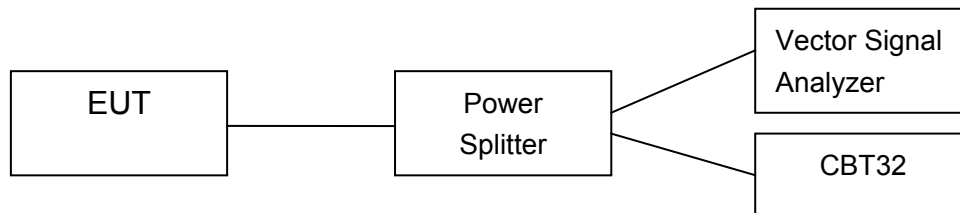
ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

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



A.1.2. Radiated Emission Measurements

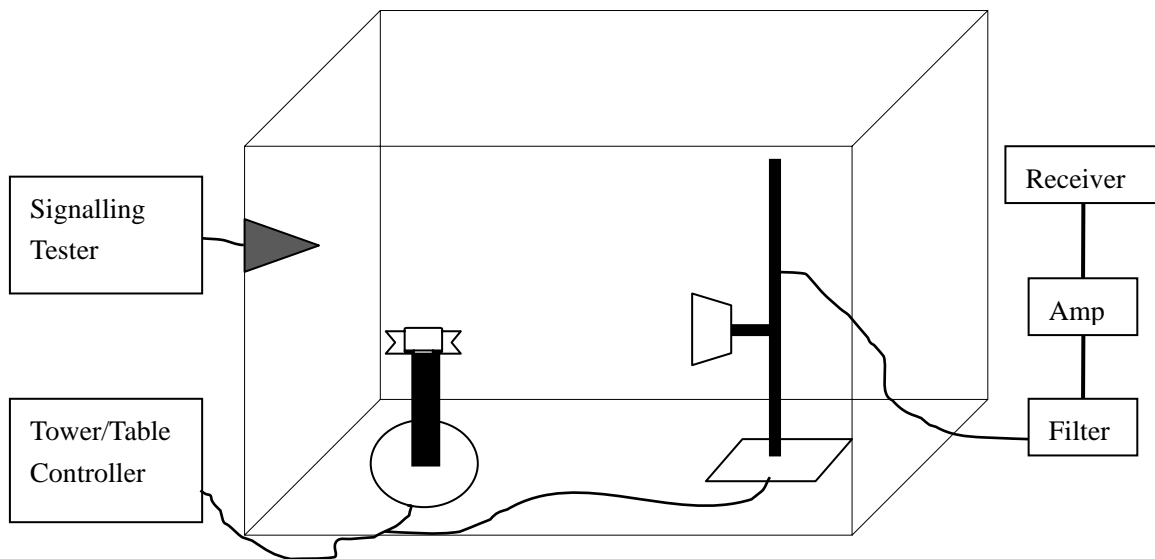
The measurement is made according to ANSI C63.10.

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

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

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

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



A.2. Peak Output Power - Conducted

Measurement Limit:

Standard	Limit (dBm)
FCC Part 15.247(b)(1)/ RSS-210 A8.4 (2)	< 30

The measurement is made according to ANSI C63.10.

Test Condition

Hopping Mode	RBW	VBW	Span	Sweptime
Hopping OFF	1MHz	5MHz	0	5ms

Measurement Results:

For GFSK

Frequency	2402 MHz	2440 MHz	2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	-1.03	0.45	1.48	P

Conclusion: PASS

A.3. Frequency Band Edges - Conducted

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d) RSS-210 A8.5	> 20

The measurement is made according to ANSI C63.10.

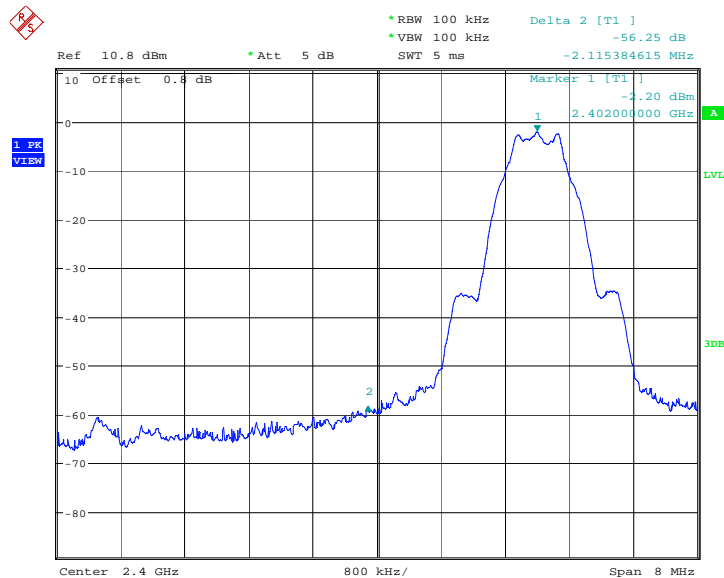
Measurement Result:

For GFSK

Frequency	Hopping	Band Edge Power (dBc)	Conclusion
2402MHz	Hopping OFF	Fig.1	P
2480MHz	Hopping OFF	Fig.2	P

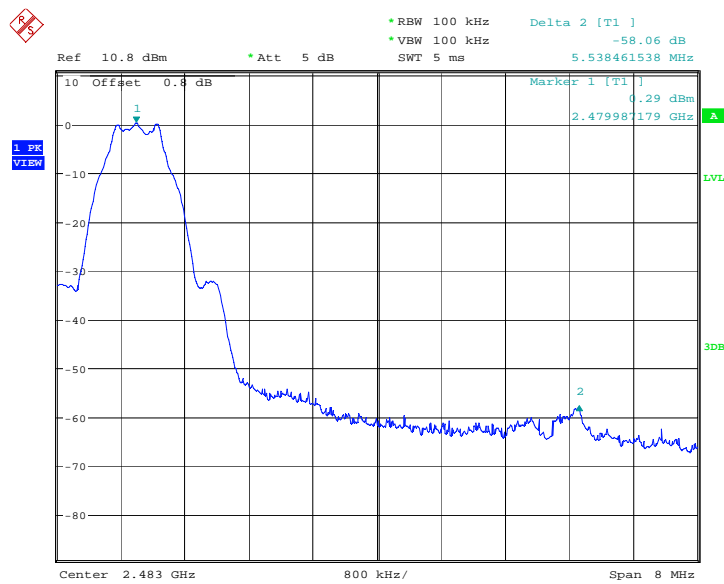
Conclusion: PASS

Test graphs as below



Date: 25.JAN.2013 06:34:12

Fig.1. Frequency Band Edges: GFSK, 2402 MHz, Hopping Off



Date: 25.JAN.2013 06:45:44

Fig.2. Frequency Band Edges: GFSK, 2480 MHz, Hopping Off

A.4. Conducted Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d) RSS-210 A8.5	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.10.

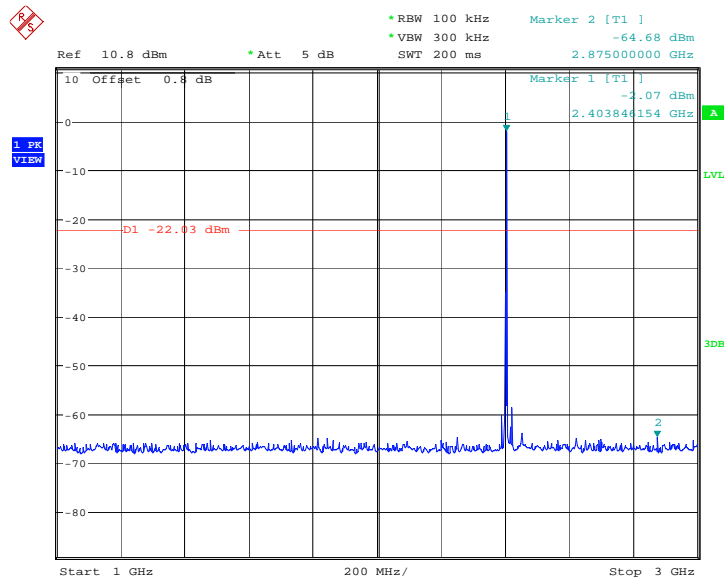
Measurement Results:

For GFSK

Frequency	Frequency Range	Test Results	Conclusion
2402 MHz	Center Frequency	Fig.3	P
	30 MHz ~ 1 GHz	Fig.4	P
	1 GHz ~ 3 GHz	Fig.5	P
	3 GHz ~ 10 GHz	Fig.6	P
	10GHz ~ 26 GHz	Fig.7	P
2440 MHz	Center Frequency	Fig.8	P
	30 MHz ~ 1 GHz	Fig.9	P
	1 GHz ~ 3 GHz	Fig.10	P
	3 GHz ~ 10 GHz	Fig.11	P
	10GHz ~ 26 GHz	Fig.12	P
2480 MHz	Center Frequency	Fig.13	P
	30 MHz ~ 1 GHz	Fig.14	P
	1 GHz ~ 3GHz	Fig.15	P
	3 GHz ~ 10 GHz	Fig.16	P
	10 GHz ~ 26 GHz	Fig.17	P

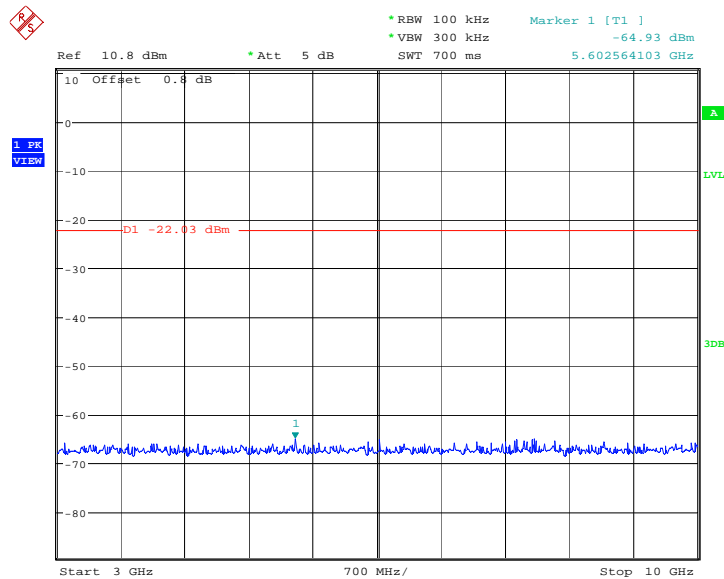
Conclusion: PASS

Test graphs as below



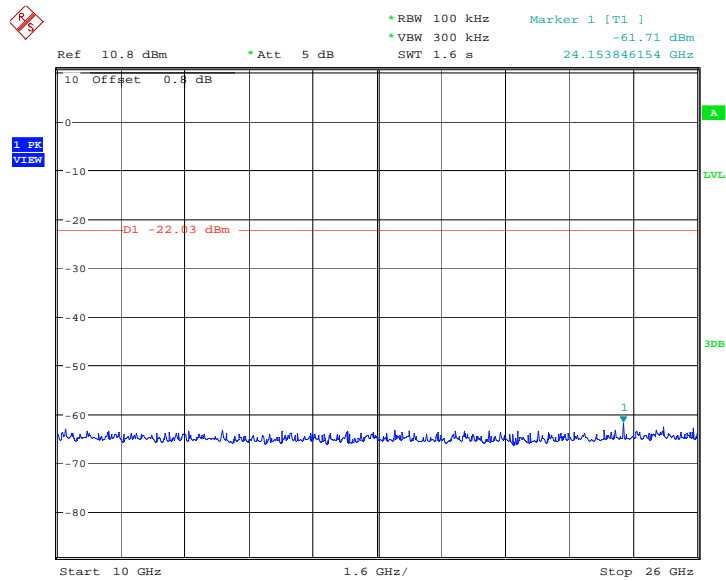
Date: 25.JAN.2013 06:33:20

Fig.5. Conducted spurious emission: GFSK, 2402 MHz, 1GHz - 3GHz



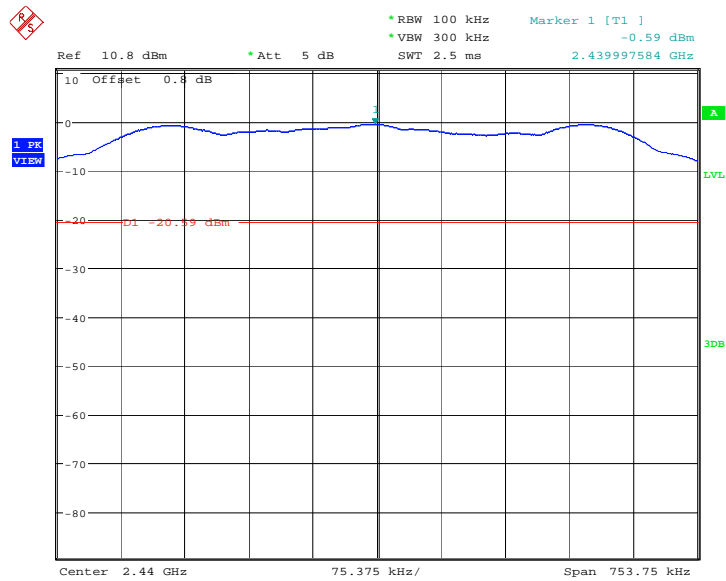
Date: 25.JAN.2013 06:33:37

Fig.6. Conducted spurious emission: GFSK, 2402 MHz, 3GHz - 10GHz



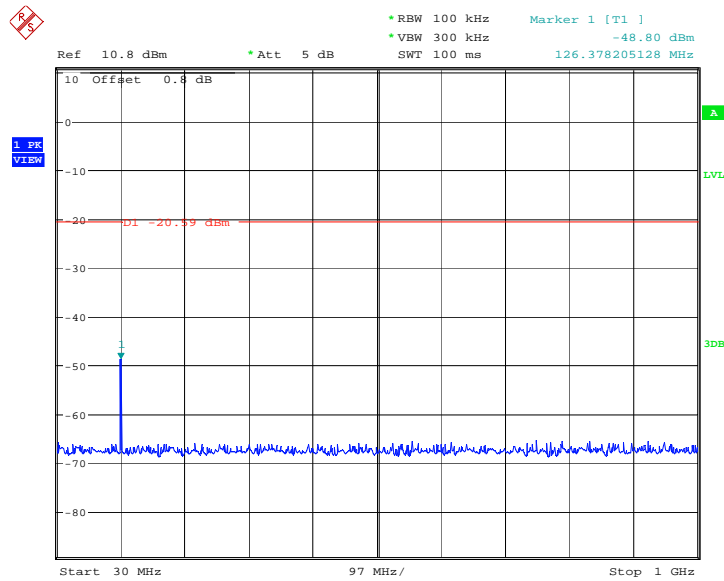
Date: 25.JAN.2013 06:33:53

Fig.7. Conducted spurious emission: GFSK, 2402 MHz, 10GHz - 26GHz



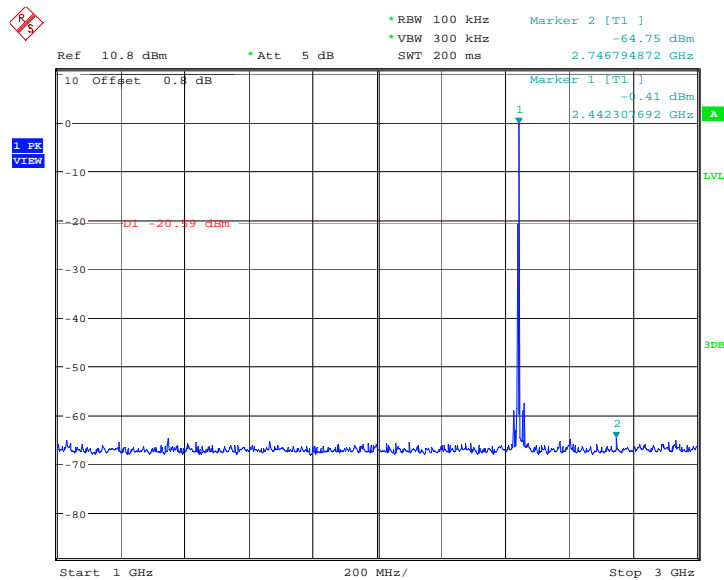
Date: 25.JAN.2013 06:39:20

Fig.8. Conducted spurious emission: GFSK, 2440MHz



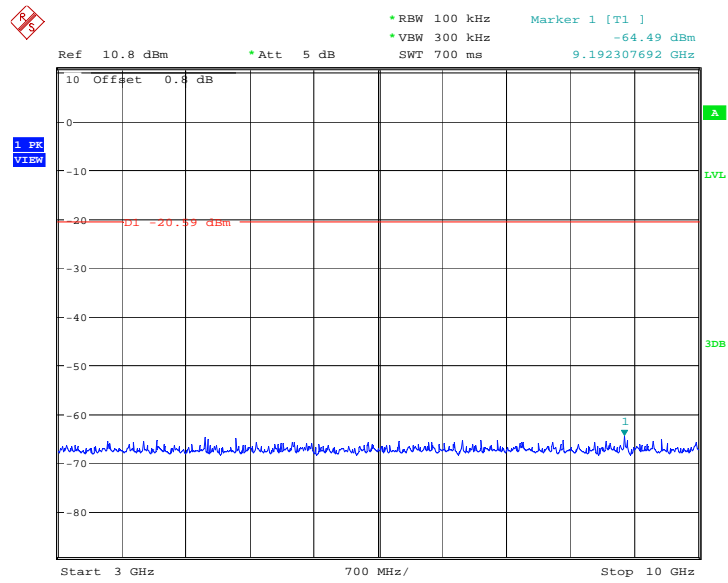
Date: 25.JAN.2013 06:39:37

Fig.9. Conducted spurious emission: GFSK, 2440 MHz, 30MHz - 1GHz



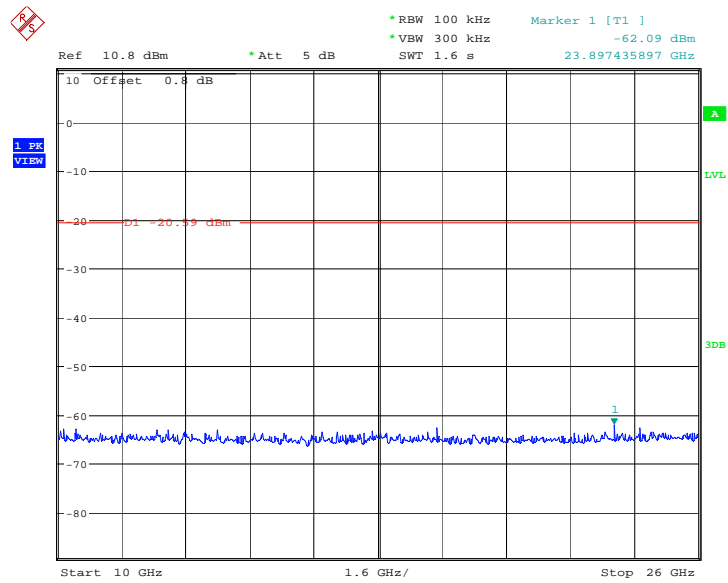
Date: 25.JAN.2013 06:40:09

Fig.10. Conducted spurious emission: GFSK, 2440 MHz, 1GHz - 3GHz



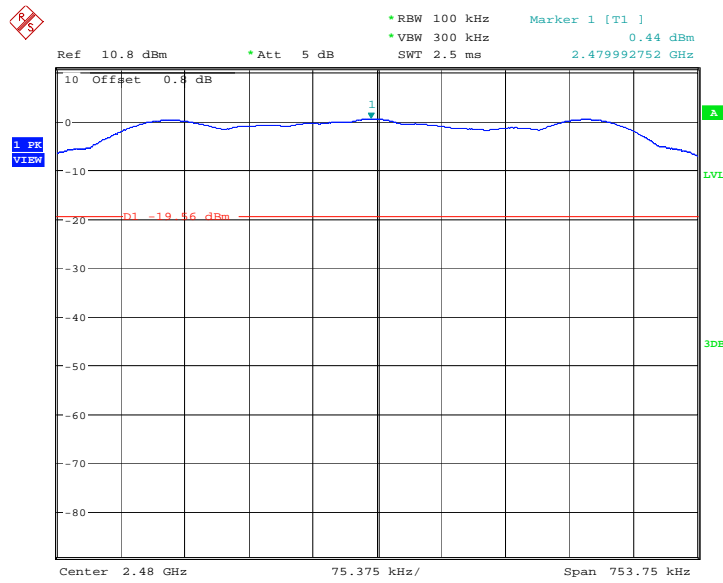
Date: 25.JAN.2013 06:40:25

Fig.11. Conducted spurious emission: GFSK, 2440 MHz, 3GHz – 10GHz



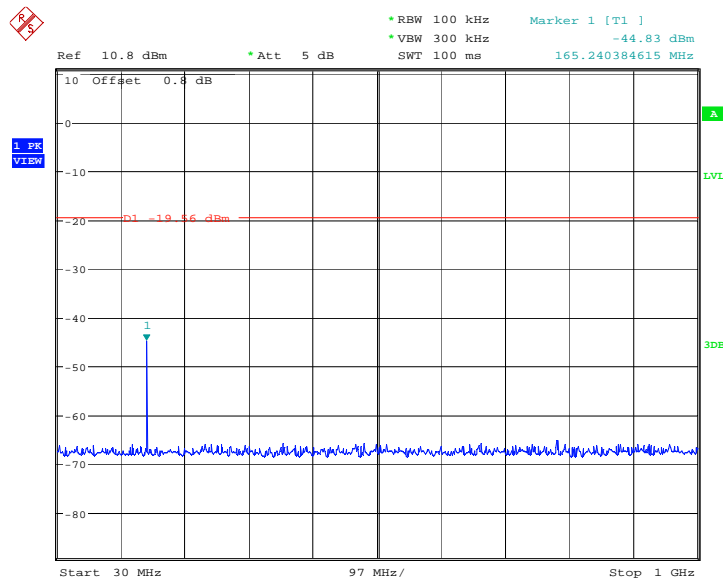
Date: 25.JAN.2013 06:40:42

Fig.12. Conducted spurious emission: GFSK, 2440 MHz, 10GHz – 26GHz



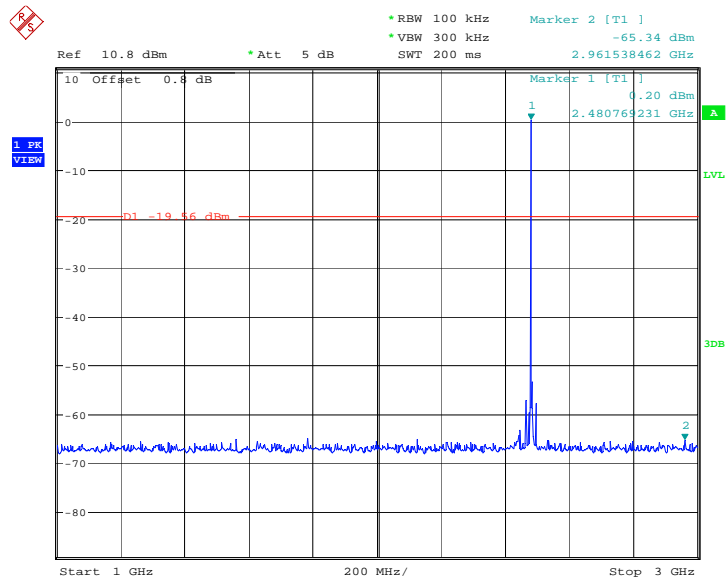
Date: 25.JAN.2013 06:44:03

Fig.13. Conducted spurious emission: GFSK, 2480 MHz



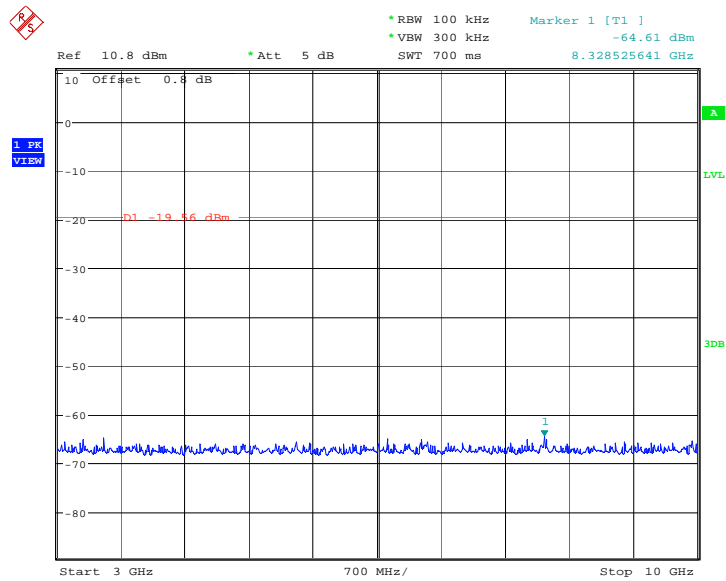
Date: 25.JAN.2013 06:44:20

Fig.14. Conducted spurious emission: GFSK, 2480 MHz, 30MHz - 1GHz



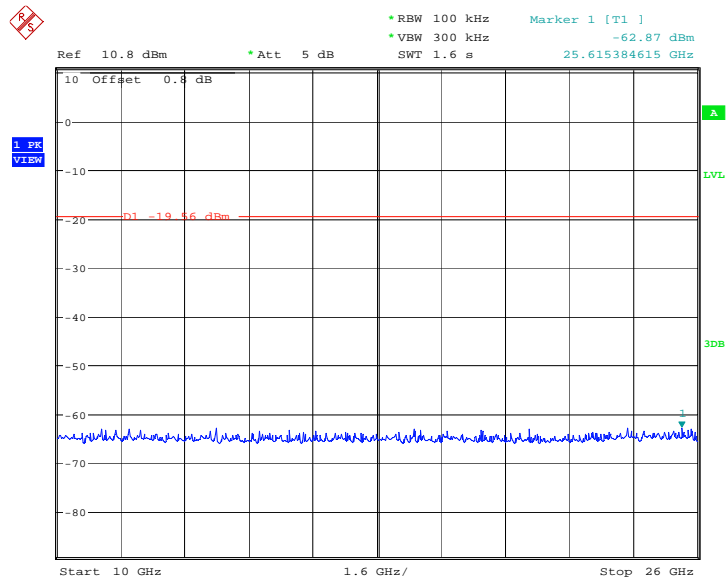
Date: 25.JAN.2013 06:44:52

Fig.15. Conducted spurious emission: GFSK, 2480 MHz, 1GHz - 3GHz



Date: 25.JAN.2013 06:45:08

Fig.16. Conducted spurious emission: GFSK, 2480 MHz, 3GHz - 10GHz



Date: 25.JAN.2013 06:45:25

Fig.17. Conducted spurious emission: GFSK, 2480 MHz, 10GHz - 26GHz

A.5. Radiated Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209 RSS-210 A8.5	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)).

The measurement is made according to ANSI C63.10

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

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	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

Measurement Results:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable los.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}}$$

For GFSK

Frequency	Frequency Range	Test Results	Conclusion
2402 MHz	30 MHz ~ 1 GHz	Fig.18	P
	1 GHz ~ 3 GHz	Fig.19	P
	3 GHz ~ 18 GHz	Fig.20	P
2441 MHz	9KHz ~ 30MHz	Fig.21	P
	30 MHz ~ 1 GHz	Fig.22	P
	1 GHz ~ 3 GHz	Fig.23	P
	3 GHz ~ 18 GHz	Fig.24	P

2480 MHz	30 MHz ~ 1 GHz	Fig.25	P
	1 GHz ~ 3 GHz	Fig.26	P
	3 GHz ~ 18 GHz	Fig.27	P
Power	2.38GHz~2.4GHz---L	Fig.28	P
Power	2.45GHz~2.5GHz---H	Fig.29	P
For all channels	18 GHz ~ 26 GHz	Fig.30	P

GFSK 2402MHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17504.25	43.70	17.47	26.23	V
17473.50	43.60	17.30	26.30	V
17514.00	43.60	17.47	26.13	H
17486.25	43.60	17.74	25.86	V
17506.50	43.60	17.47	26.13	V
17520.00	43.60	17.47	26.13	V

GFSK 2440MHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17517.75	43.70	17.47	26.23	H
17997.75	43.70	17.55	26.15	V
17508.00	43.70	17.47	26.23	V
17497.50	43.60	17.74	25.86	H
17784.75	43.60	16.52	27.08	H
17548.50	43.50	17.63	25.87	V

GFSK 2480MHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17496.75	43.60	17.74	25.86	V
17489.25	43.60	17.74	25.86	V
17997.75	43.60	17.55	26.05	H
17493.00	43.50	17.74	25.76	H
17492.25	43.50	17.74	25.76	V
17503.50	43.50	17.47	26.03	H

Conclusion: PASS

Test graphs as below:

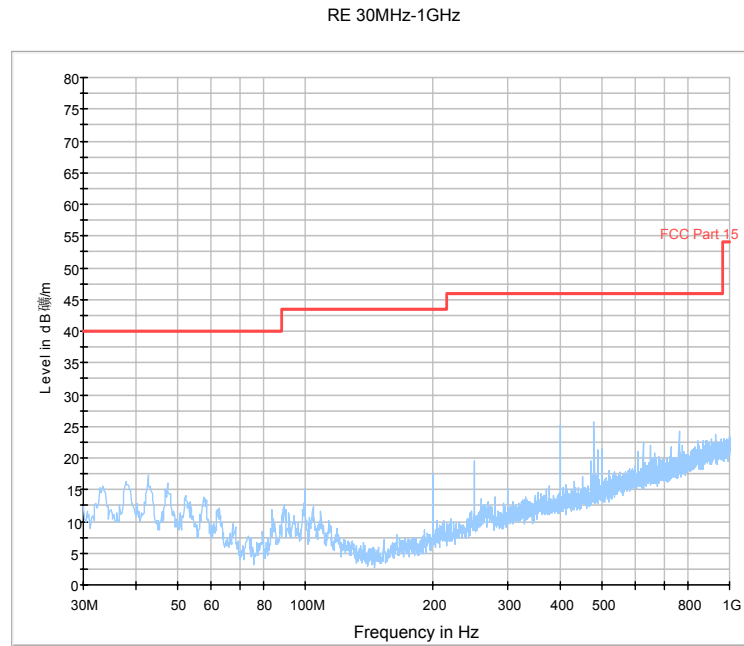


Fig.18. Radiated emission: GFSK, 2402MHz, 30 MHz - 1 GHz

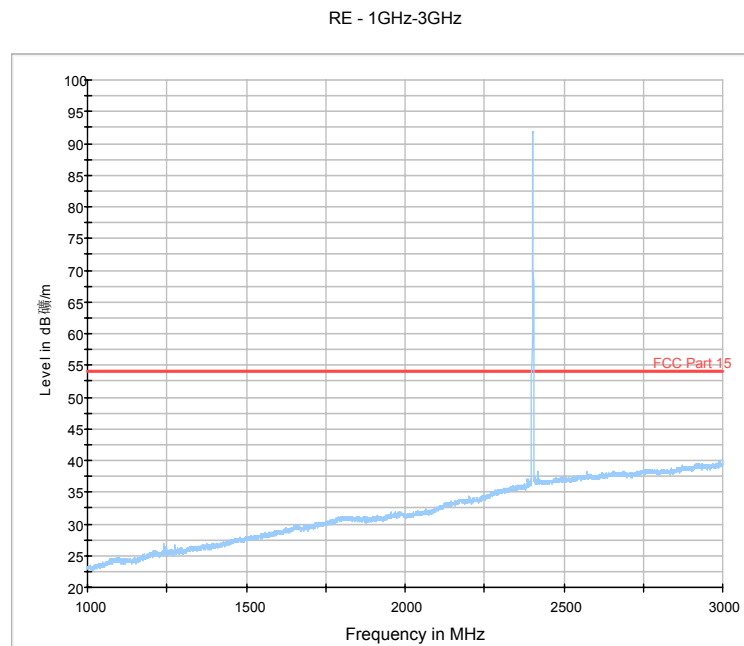


Fig: 19. Radiated emission: GFSK, 2402MHz, 1 GHz - 3GHz

RE - 3GHz-18GHz

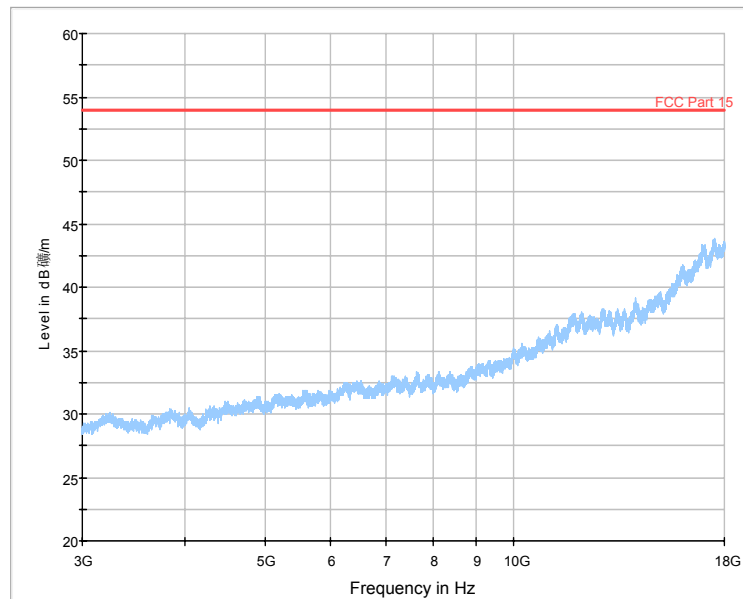


Fig.20. Radiated emission: GFSK, 2402MHz, 3 GHz - 18 GHz

RE 9kHz-30MHz

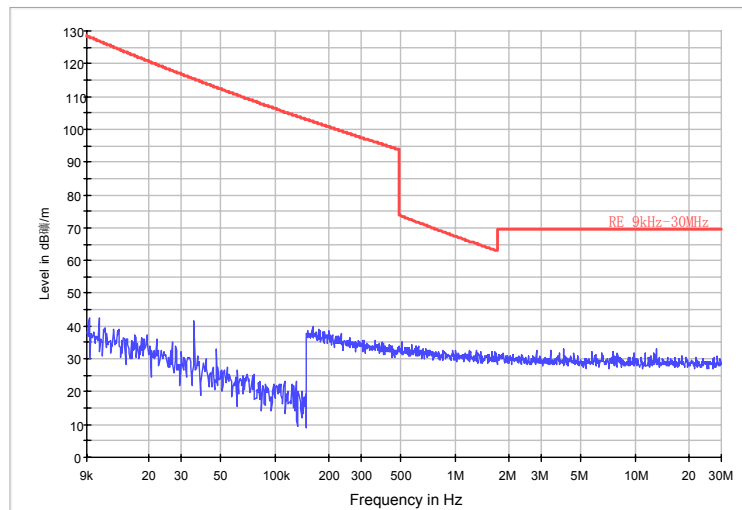


Fig.21. Radiated emission: GFSK, 2440MHz, 9KHz – 30MHz

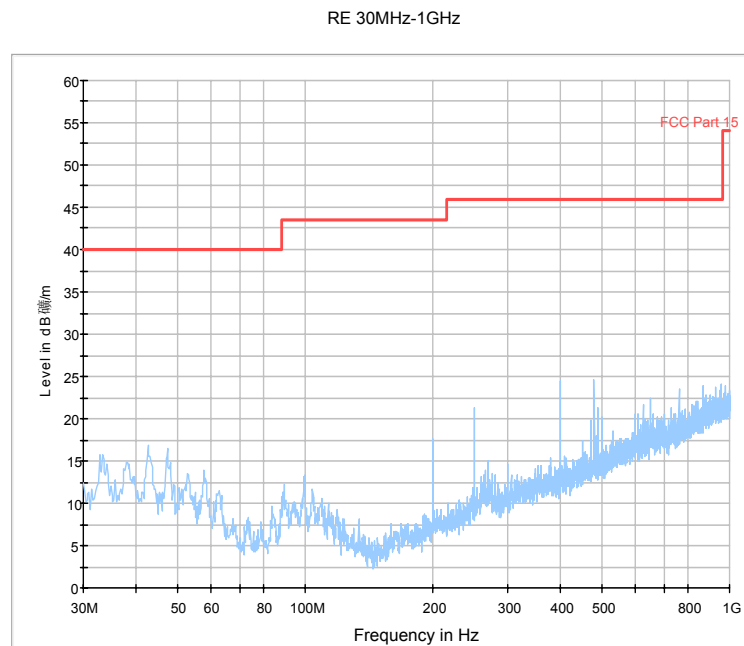


Fig.22. Radiated emission: GFSK, 2440MHz, 30 MHz - 1 GHz

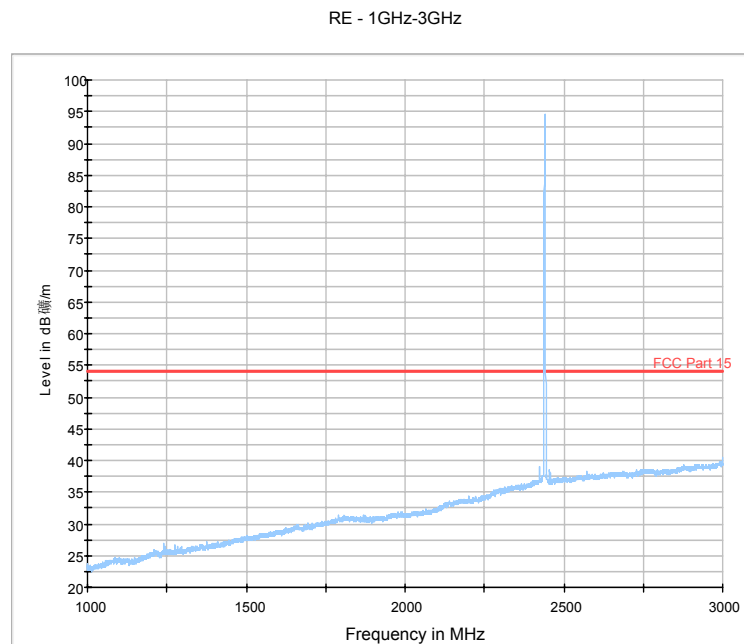


Fig.23. Radiated emission: GFSK, 2440MHz, 1 GHz - 3 GHz

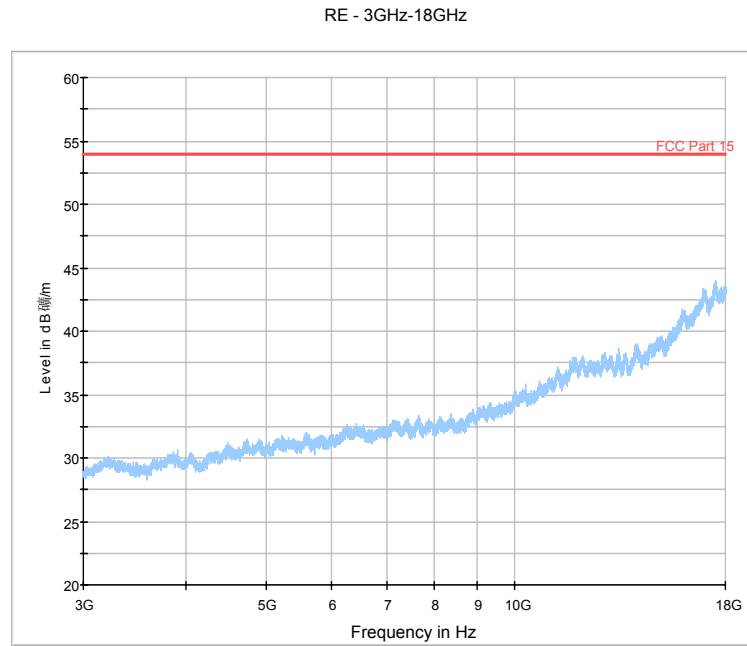


Fig.24. Radiated emission: GFSK, 2440MHz, 3 GHz - 18 GHz

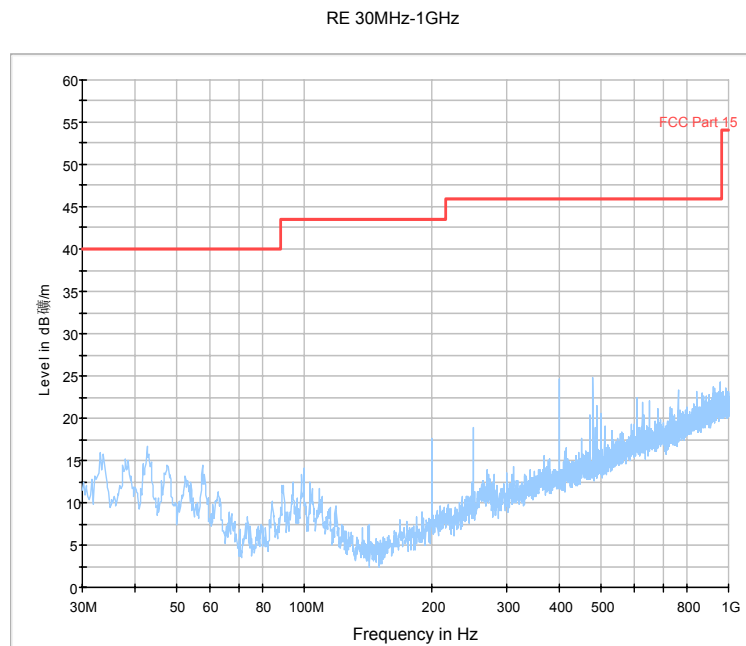


Fig.25. Radiated emission: GFSK, 2480MHz, 30 MHz - 1 GHz

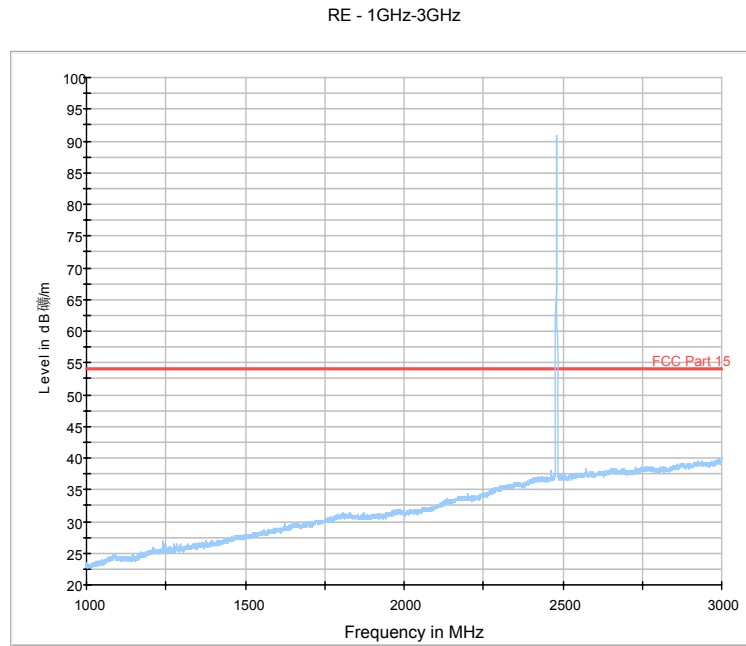


Fig.26. Radiated emission: GFSK, 2480MHz, 1 GHz - 3 GHz

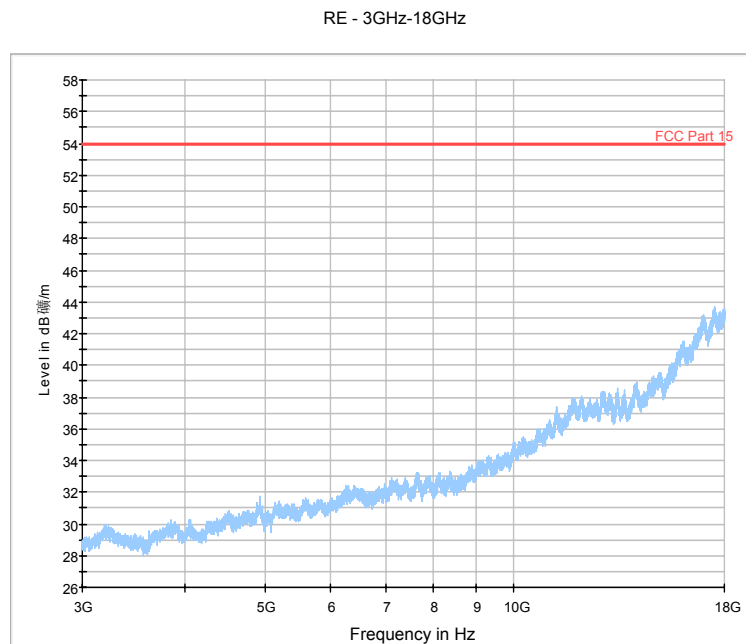


Fig.27. Radiated emission: GFSK, 2480MHz, 3 GHz - 18 GHz

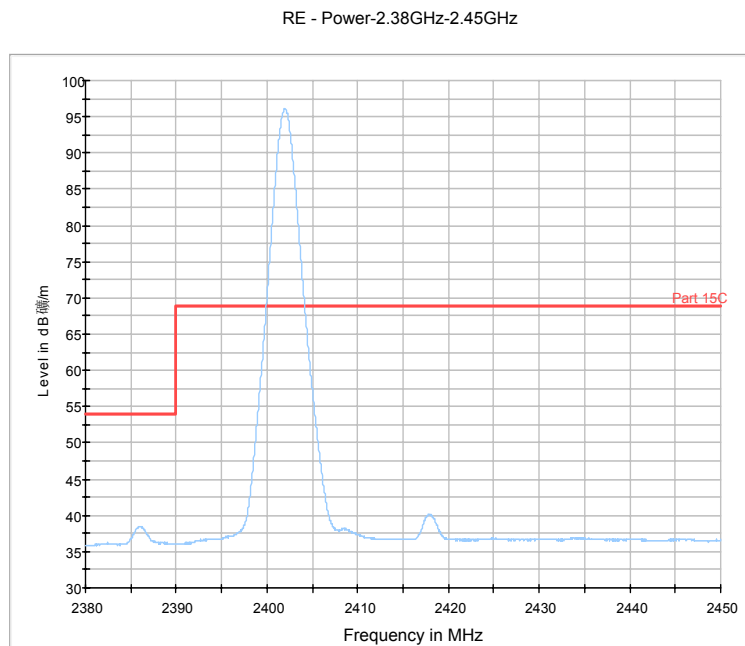


Fig.28. Radiated emission (Power): GFSK low channel

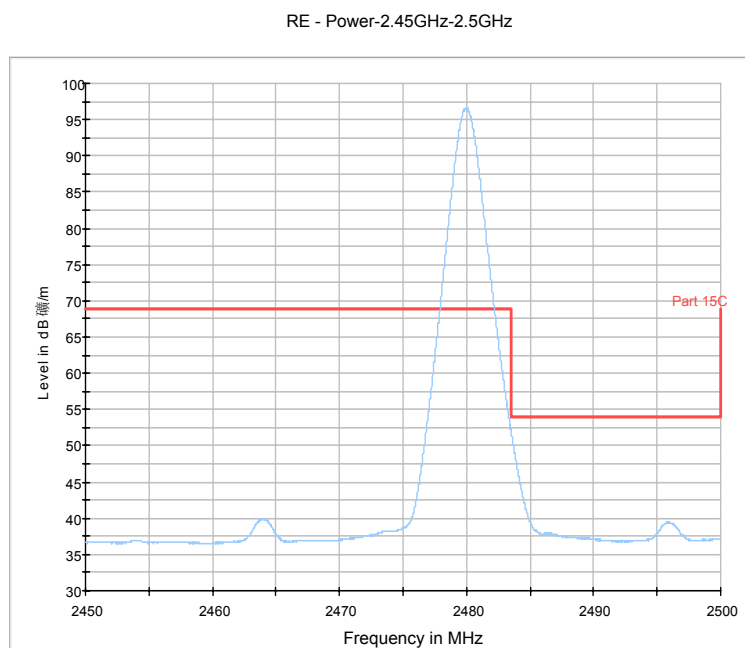


Fig.29. Radiated emission (Power): GFSK high channel

EMI 18GHz-26.5GHz

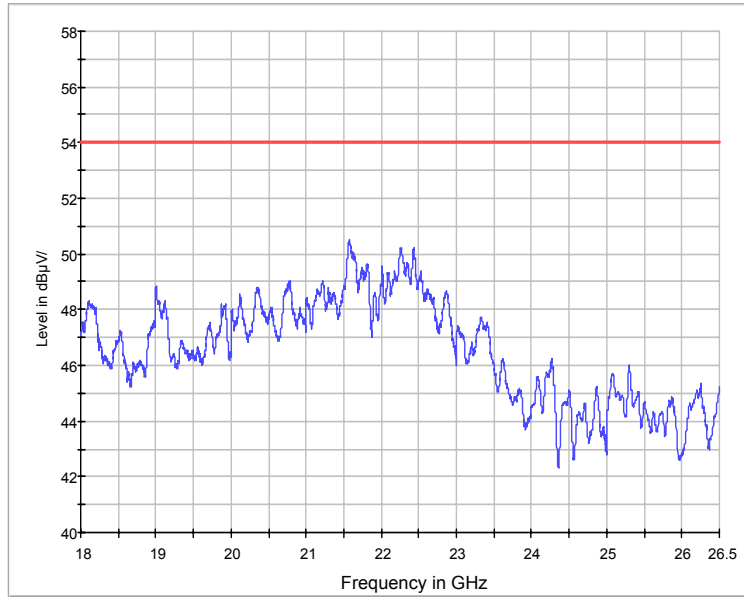


Fig.30. Radiated emission: GFSK, 18 GHz - 26 GHz

A.6. 6dB Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209 RSS-210 A8.5	$\geq 500\text{KHz}$

The measurement is made according to ANSI C63.10

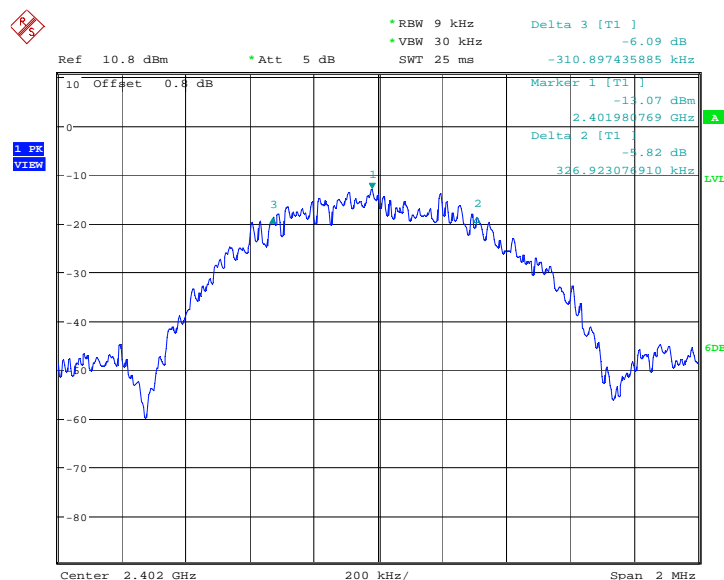
Measurement Results:

For GFSK

Frequency	6dB Bandwidth (kHz)		Conclusion
2402MHz	Fig.31	637.82	P
2440MHz	Fig.32	644.23	P
2480MHz	Fig.33	644.23	P

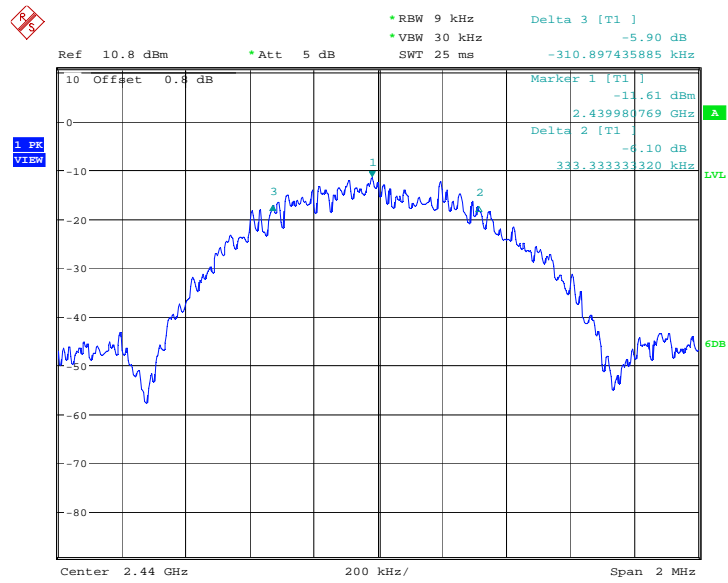
Conclusion: PASS

Test graphs as below:



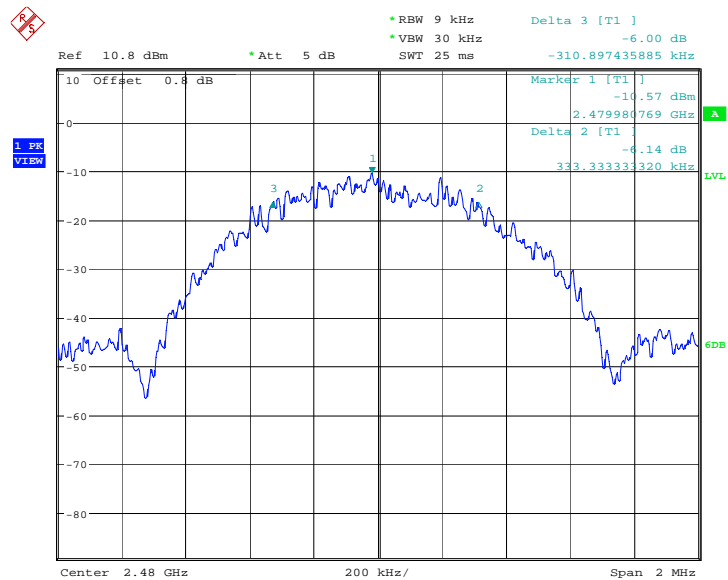
Date: 25.JAN.2013 06:31:46

Fig.31. 6dB Bandwidth: GFSK, 2402 MHz



Date: 25.JAN.2013 06:38:34

Fig.32. 6dB Bandwidth: GFSK, 2440 MHz



Date: 25.JAN.2013 06:43:18

Fig.33. 6dB Bandwidth: GFSK, 2480 MHz

A.7. Maximum Power Spectral Density Level

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(e) FCC 47 CFR Part 15.247(e) RSS-210 A8.1	<=8.0dBm

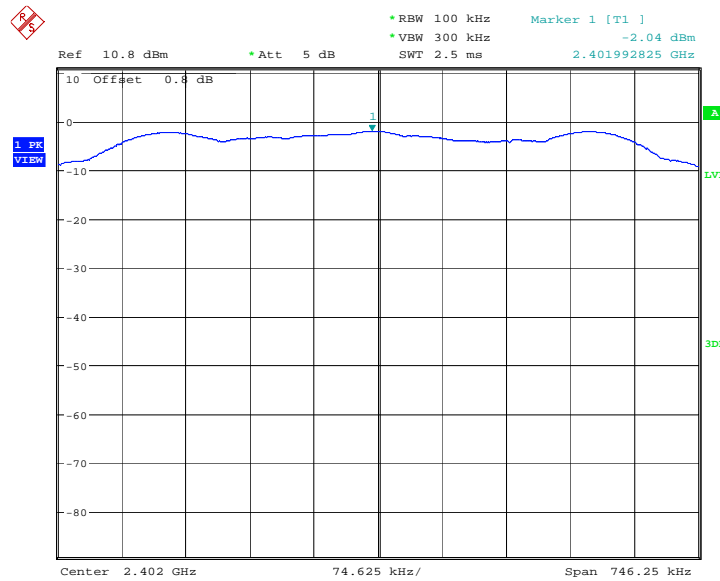
Note: RBW is set to 100KHz during test. Then Scale the observed power level to an equivalent value in 3 kHz by reducing the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3\text{ kHz}/100\text{kHz}) = -15.2\text{ dB}$, therefore the result is equivalent with setting RBW to 3KHz.

Measurement Results:

For GFSK

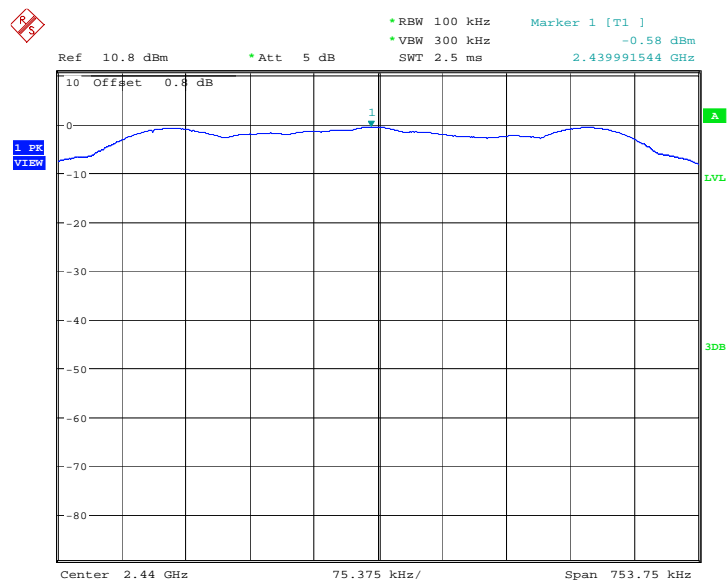
Frequency	Maximum Power Spectral Density Level(dBm)	Conclusion
2402MHz	Fig.34	P
2440MHz	Fig.35	P
2480MHz	Fig.36	P

Test graphs as below:



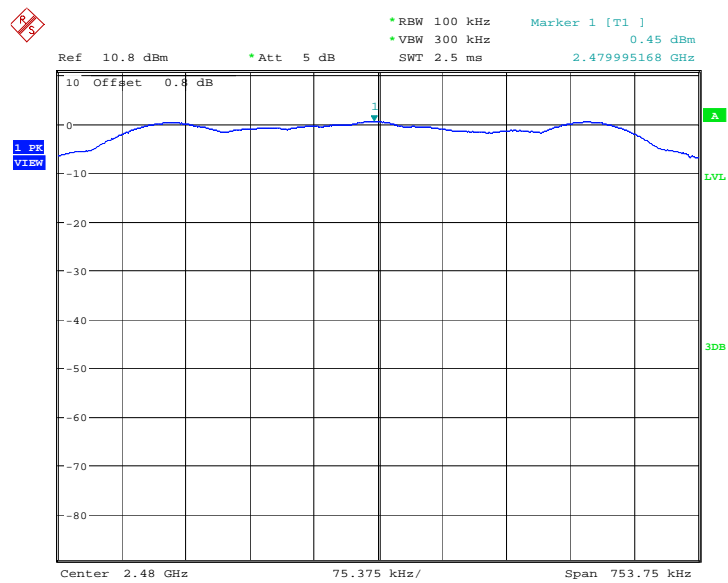
Date: 25.JAN.2013 06:32:13

Fig.34. Maximum Power Spectral Density Level Function: GFSK, 2402 MHz



Date: 25.JAN.2013 06:39:02

Fig.35. Maximum Power Spectral Density Level Function: GFSK, 2440 MHz



Date: 25.JAN.2013 06:43:45

Fig.36. Maximum Power Spectral Density Level Function: GFSK, 2480 MHz

A.8. AC Powerline Conducted Emission

Test Condition

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Conclusion
0.15 to 0.5	66 to 56	P
0.5 to 5	56	
5 to 30	60	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Average Limit)

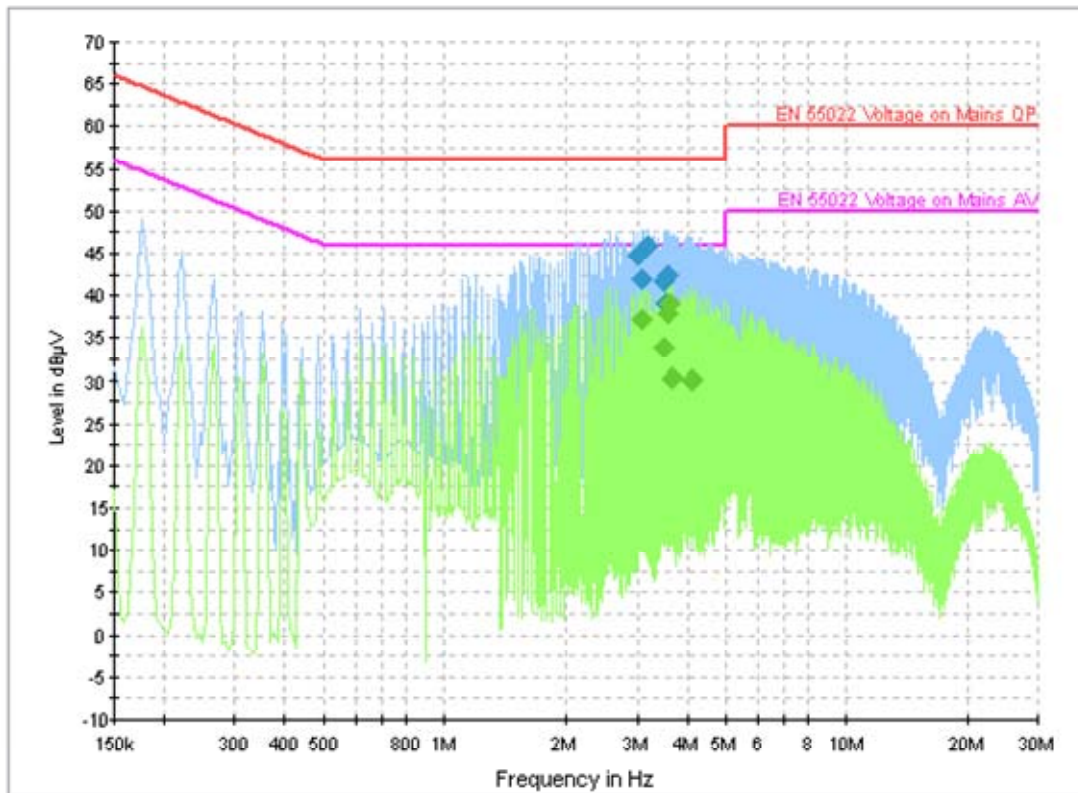
Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Conclusion
0.15 to 0.5	56 to 46	P
0.5 to 5	46	
5 to 30	50	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:

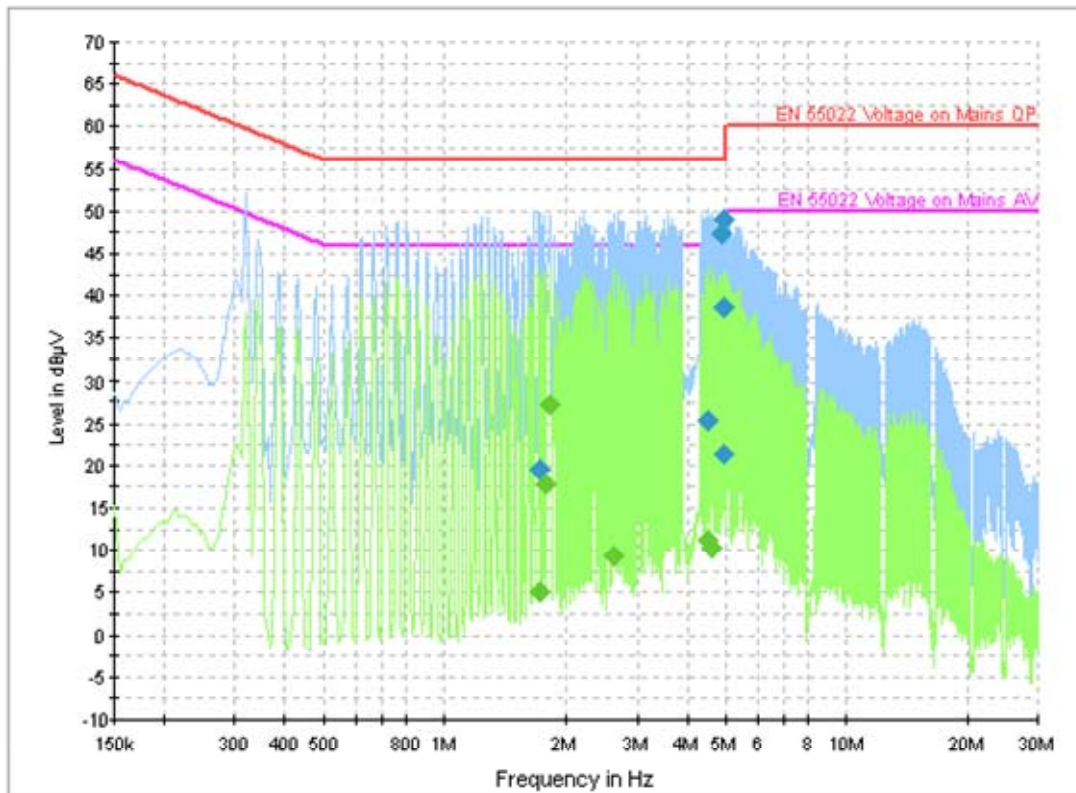


Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.998500	44.7	GND	L1	10.0	11.3	56.0
3.088500	42.0	GND	N	10.0	14.0	56.0
3.178500	46.0	GND	N	10.0	10.0	56.0
3.484500	41.6	GND	N	10.0	14.4	56.0
3.525000	39.0	GND	L1	10.0	17.0	56.0
3.570000	42.3	GND	L1	10.0	13.7	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
3.088500	37.3	GND	N	10.0	8.7	46.0
3.484500	33.8	GND	L1	10.0	12.2	46.0
3.574500	37.9	GND	N	10.0	8.1	46.0
3.619500	39.1	GND	N	10.0	6.9	46.0
3.660000	30.5	GND	L1	10.0	15.5	46.0
4.101000	30.1	GND	L1	10.0	15.9	46.0



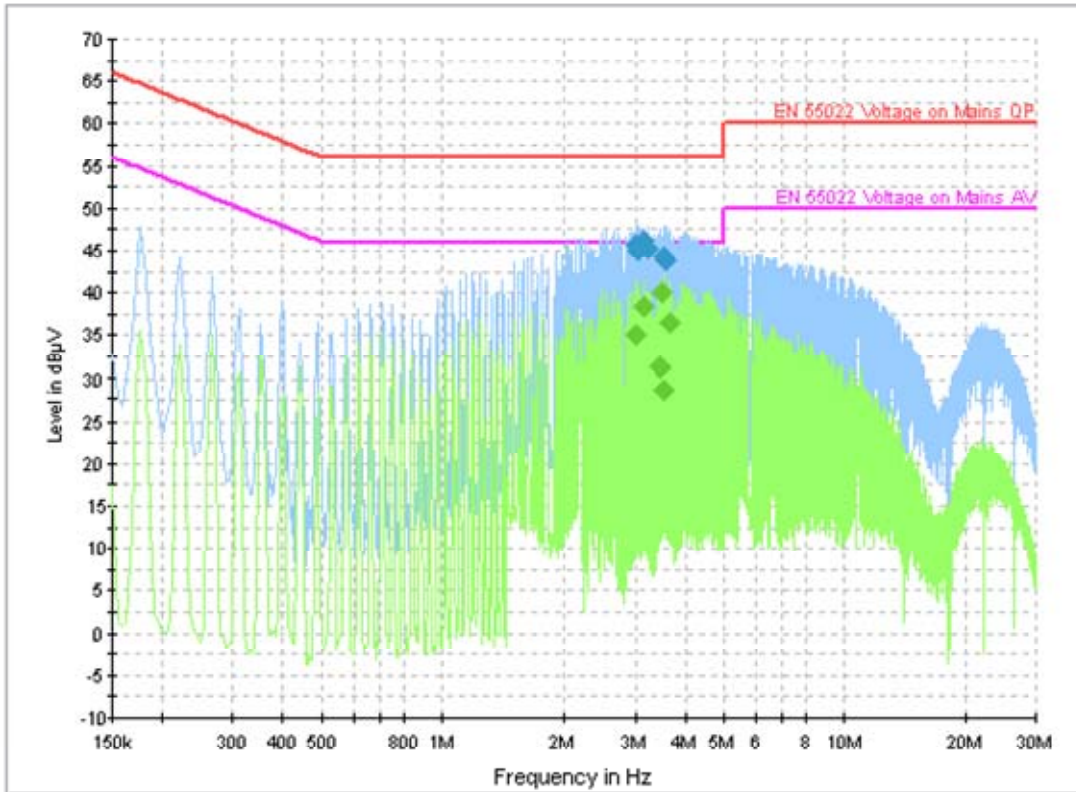
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.716000	19.5	GND	L1	10.0	36.5	56.0
4.483500	25.3	GND	L1	10.0	30.7	56.0
4.861500	47.3	GND	L1	10.0	8.7	56.0
4.911000	38.5	GND	L1	10.0	17.5	56.0
4.929000	21.4	GND	N	10.0	34.6	56.0
4.956000	49.0	GND	L1	10.0	7.0	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.716000	5.1	GND	L1	10.0	40.9	46.0
1.770000	17.8	GND	N	10.0	28.2	46.0
1.819500	27.2	GND	N	10.0	18.8	46.0
2.634000	9.4	GND	N	10.0	36.6	46.0
4.483500	11.2	GND	L1	10.0	34.8	46.0
4.591500	10.4	GND	N	10.0	35.6	46.0

Idle:

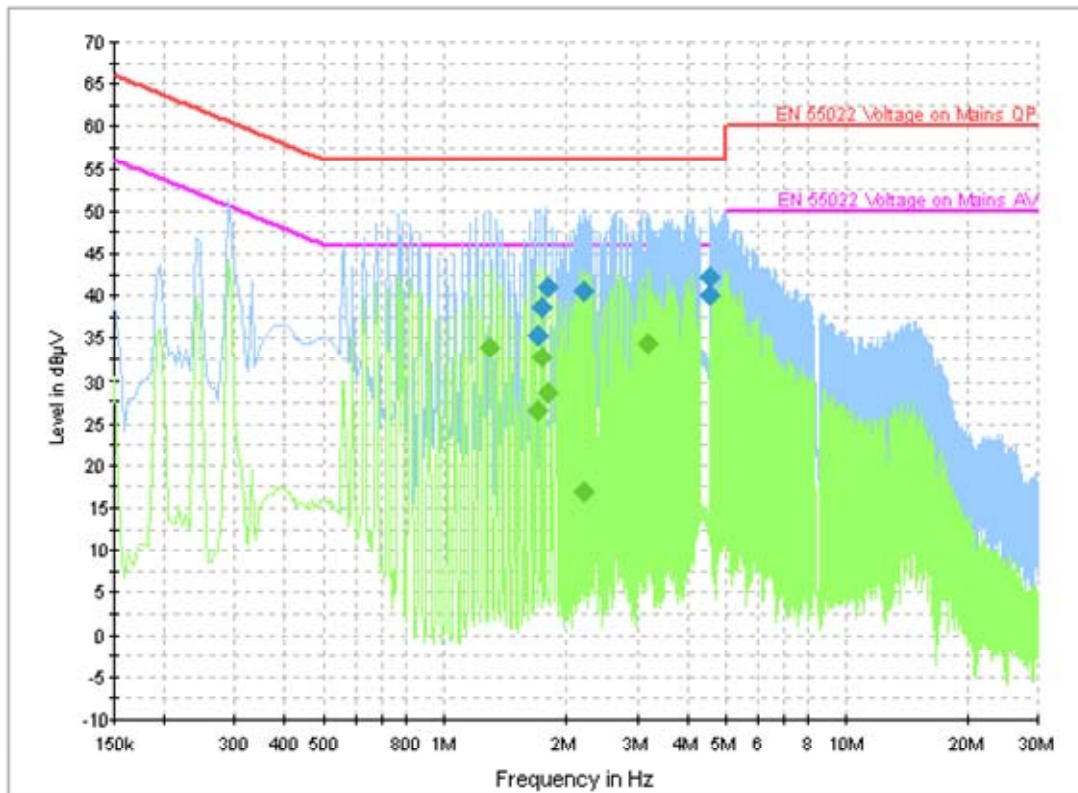


Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
3.007500	45.7	GND	L1	10.0	10.3	56.0
3.052500	45.1	GND	N	10.0	10.9	56.0
3.142500	46.3	GND	N	10.0	9.7	56.0
3.232500	45.3	GND	N	10.0	10.7	56.0
3.538500	44.3	GND	N	10.0	11.7	56.0
3.583500	43.8	GND	N	10.0	12.2	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
3.007500	35.1	GND	L1	10.0	10.9	46.0
3.142500	38.4	GND	N	10.0	7.6	46.0
3.448500	31.4	GND	L1	10.0	14.6	46.0
3.498000	40.0	GND	N	10.0	6.0	46.0
3.538500	28.7	GND	L1	10.0	17.3	46.0
3.673500	36.5	GND	N	10.0	9.5	46.0



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.689000	35.4	GND	L1	10.0	20.6	56.0
1.738500	38.6	GND	L1	10.0	17.4	56.0
1.788000	40.9	GND	N	10.0	15.1	56.0
2.220000	40.5	GND	L1	10.0	15.5	56.0
4.551000	40.1	GND	L1	10.0	15.9	56.0
4.560000	42.1	GND	L1	10.0	13.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.302000	33.9	GND	L1	10.0	12.1	46.0
1.689000	26.7	GND	L1	10.0	19.3	46.0
1.738500	32.8	GND	L1	10.0	13.2	46.0
1.788000	28.8	GND	N	10.0	17.2	46.0
2.220000	16.9	GND	L1	10.0	29.1	46.0
3.192000	34.4	GND	N	10.0	11.6	46.0

A.11 RECEIVER RADIATION EMISSION

Reference

FCC: CFR Part 15.109, 2.1053/ RSS-Gen 7.2.2

A.11.1 Method of Measurement

The measurement procedure in ANSI C64.4-2003 is used. The EUT is placed on a 80cm height non-conductive table locating on the center of turntable. From 30MHz-1GHz, the measurement distance is 10m. For frequency range above 1GHz, the measurement distance is 3m.

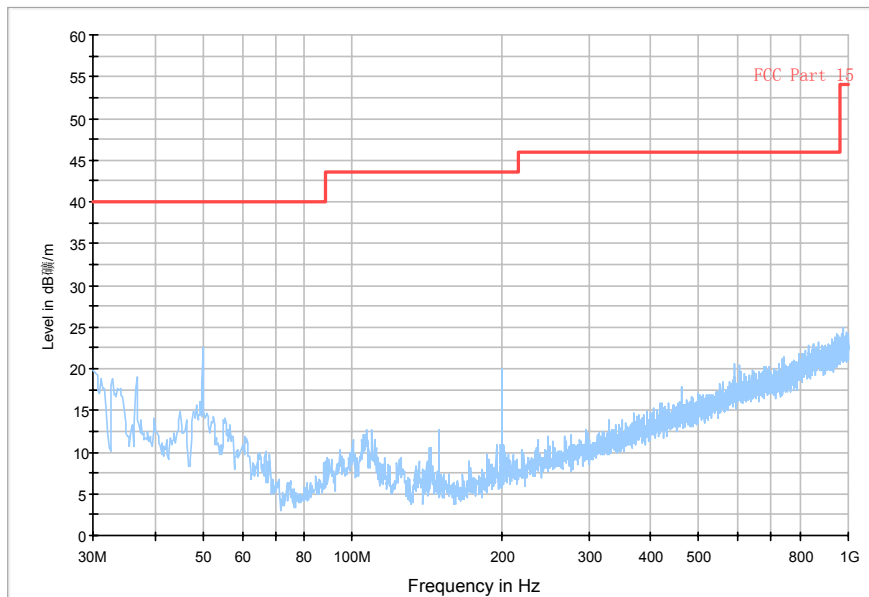
The EUT is measured with travel charger and the operating mode is idle without CMU200's signaling.

A.11.2 Method of Measurement

Frequency of Emission (MHz)	Limit (dB μ V/m)	Measurement Distance (m)
30-88	30	10
88-216	33.5	10
216-960	36	10
960-1000	44	10
>1000	54	3

A. 11.3 Measurement results

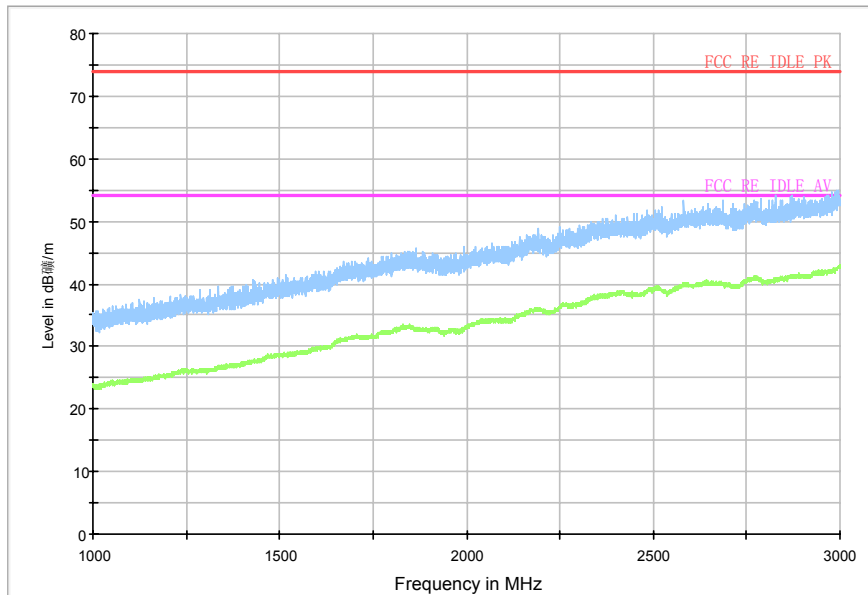
RE 30MHz-1GHz



IF bandwidth: 120 kHz

Idle Mode: 30MHz-1GHz

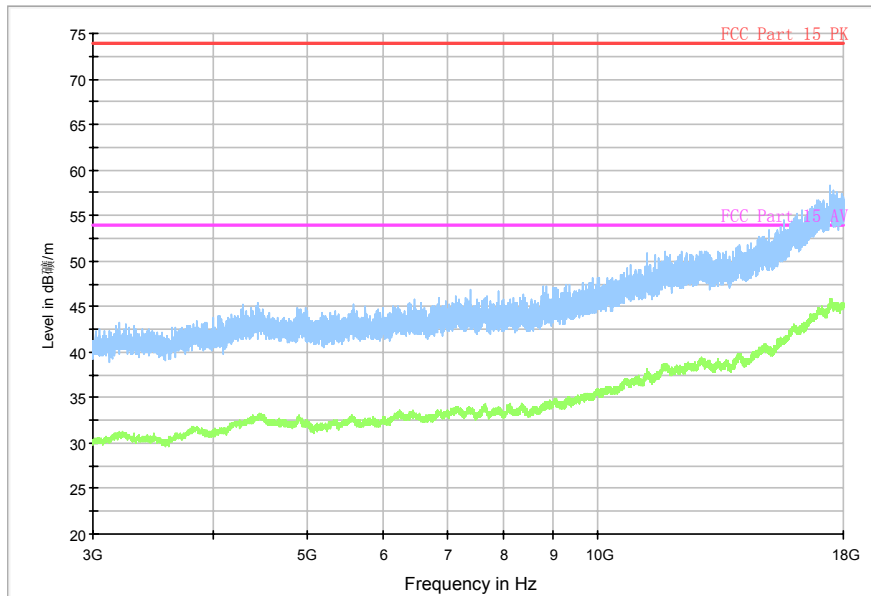
RE - 1GHz-3GHz



RBW / VBW 1 MHz

Idle Mode: 1GHz-3GHz

RE - 3GHz-18GHz



RBW / VBW 1 MHz

Idle Mode: 3GHz-18GHz

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