



FCC PART 15C TEST REPORT

No. 2013TAR733

for

TCT Mobile Limited

HSUPA/HSDPA/UMTS dual band/GSM quad-band mobile phone

Model Name: Yaris-3.5

Marketing Name: 4015T

FCC ID: RAD436

with

Hardware Version: 05 (PIO)

Software Version: vC28

Issued Date: 2014-01-27



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-1

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: 00861062304633-2504

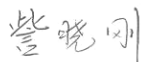
1.2. Testing Environment

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

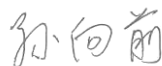
1.3. Project data

Project Leader: Zi Xiaogang
Testing Start Date: 2013-11-01
Testing End Date: 2014-01-26

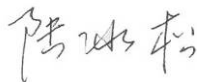
1.4. Signature



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
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Contact Person: Gong Zhizhou
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2.2. Manufacturer Information

Company Name: TCT Mobile Limited
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China.
City: Shanghai
Postal Code: 201203
Country: China
Telephone: 0086-21-61460890
Fax: 0086-21-61460602

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

3.1. About EUT

Description	HSUPA/HSDPA/UMTS dual band/GSM quad-band mobile phone
Model Name	Yaris-3.5
Marketing Name	4015T
FCC ID	RAD436
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	GFSK/ $\pi/4$ DQPSK/8DPSK
Number of Channels	79
Power Supply	3.8V DC by Battery

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
N04	013929000000138	05 (PIO)	vC28
N06	013929000000146	05 (PIO)	vC28

*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	Charger

AE1

Model	CAB1400002C1
Manufacturer	BYD
Capacitance	1400mAh
Nominal Voltage	3.7V

AE2

Model	CAB60BA000C1
Manufacturer	SCUD
Capacitance	1400mAh
Nominal Voltage	3.7V

AE3

Model	CBA0016AG0C2
Manufacturer	TENPAO

*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 dual band/GSM quad-band 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.

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:		
FCC Part15	15.205 Restricted bands of operation;	10-1-12
	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 for Testing Unlicensed Wireless Devices	2009
FCC Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations	10–1–12

5. LABORATORY ENVIRONMENT

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

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber 2 (8.6 meters×6.1 meters×3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

Semi-anechoic chamber 2 / Fully-anechoic chamber 3 (10 meters×6.7 meters×6.15 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.5 dB, 3 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 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	Sub-clause	Verdict
Peak Output Power - Conducted	15.247 (b)(1)	P
Frequency Band Edges	15.247 (d)	P
Conducted Emission	15.247 (d)	P
Radiated Emission	15.247, 15.205, 15.209	P
Time of Occupancy (Dwell Time)	15.247 (a) (1)(iii)	P
20dB Bandwidth	15.247 (a)(1)	NA
Carrier Frequency Separation	15.247 (a)(1)	P
Number of hopping channels	15.247 (a)(b)(iii)	P
AC Powerline Conducted Emission	15.107, 15.207	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	2014-11-05
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	2014-09-15
7	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2014-03-17
8	Loop Antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2014-12-12
9	Pre-amplifier(18GHz)	SCU18	1005277	Rohde & Schwarz	/
10	Pre-amplifier(26.5GHz)	SCU26	1006788	Rohde & Schwarz	/

Anechoic chamber

Fully anechoic chamber by Frankonia German.

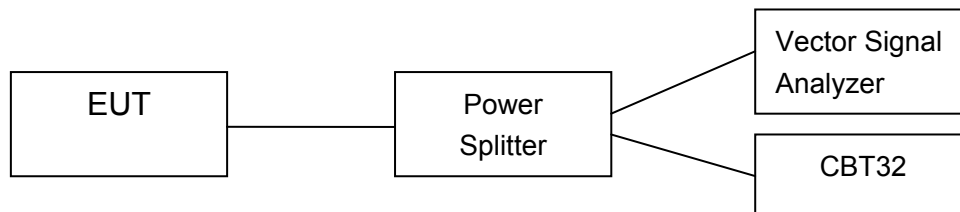
ANNEX A: MEASUREMENT RESULTS

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

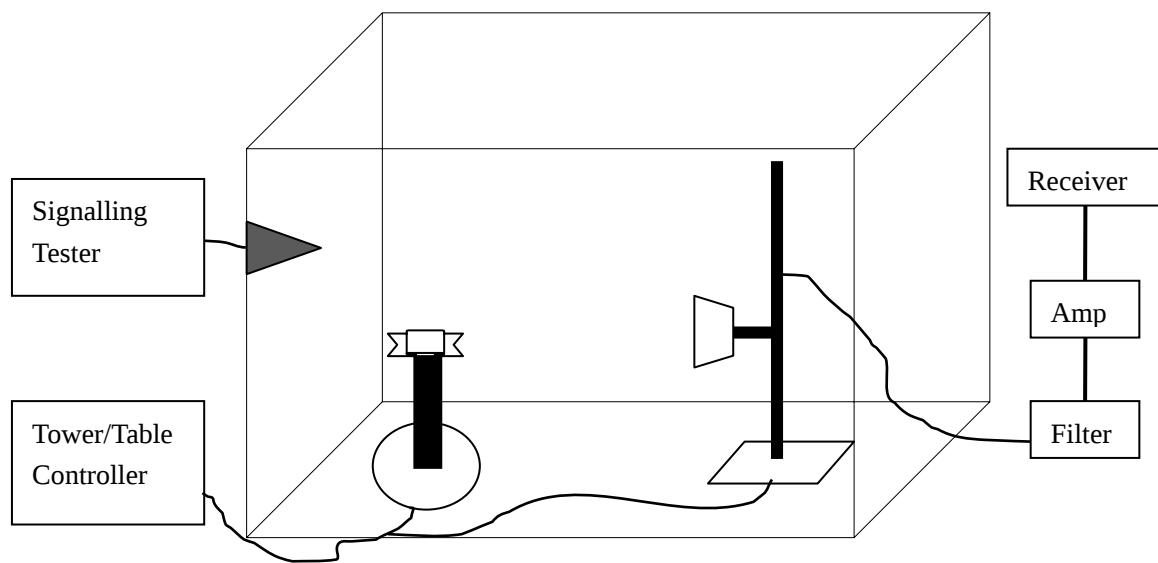
The measurement is made according to ANSI C63.10

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)	< 30

The measurement is made according to ANSI C63.10.

Test Condition

Hopping Mode	RBW	VBW	Span	Sweeptime
Hopping OFF	3MHz	3MHz	5MHz	2.5ms

Measurement Results:

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	7.43	7.80	7.79	P

For $\pi/4$ DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	7.14	7.57	7.56	P

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	7.38	7.82	7.80	P

Conclusion: PASS

A.3. Frequency Band Edges - Conducted

Measurement Limit:

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

The measurement is made according to ANSI C63.10.

Measurement Result:

For GFSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.1	-55.69	P
	Hopping ON	Fig.2	-56.51	P
78	Hopping OFF	Fig.3	-58.29	P
	Hopping ON	Fig.4	-61.29	P

For $\pi/4$ DQPSK

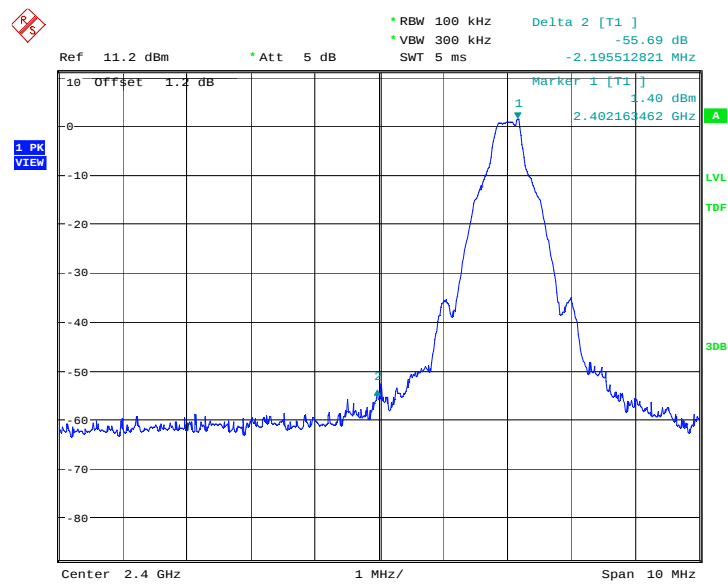
Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.5	-55.05	P
	Hopping ON	Fig.6	-55.62	P
78	Hopping OFF	Fig.7	-58.75	P
	Hopping ON	Fig.8	-60.14	P

For 8DPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.9	-54.96	P
	Hopping ON	Fig.10	-56.11	P
78	Hopping OFF	Fig.11	-58.72	P
	Hopping ON	Fig.12	-59.32	P

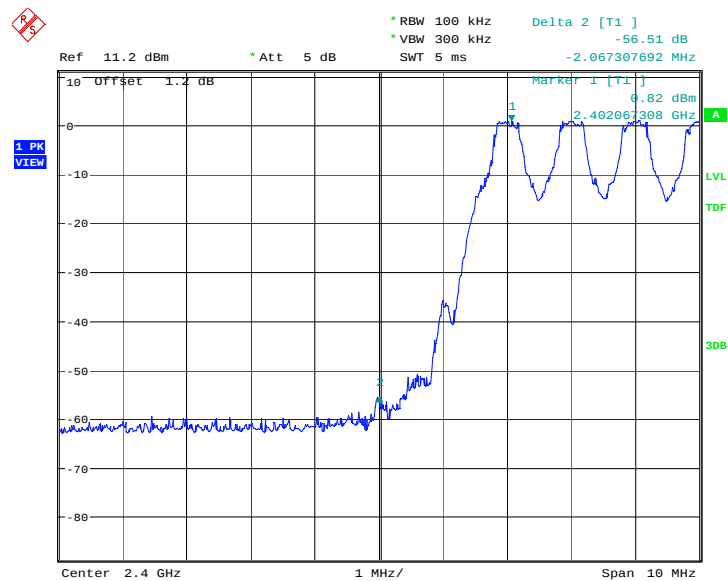
Conclusion: PASS

Test graphs as below



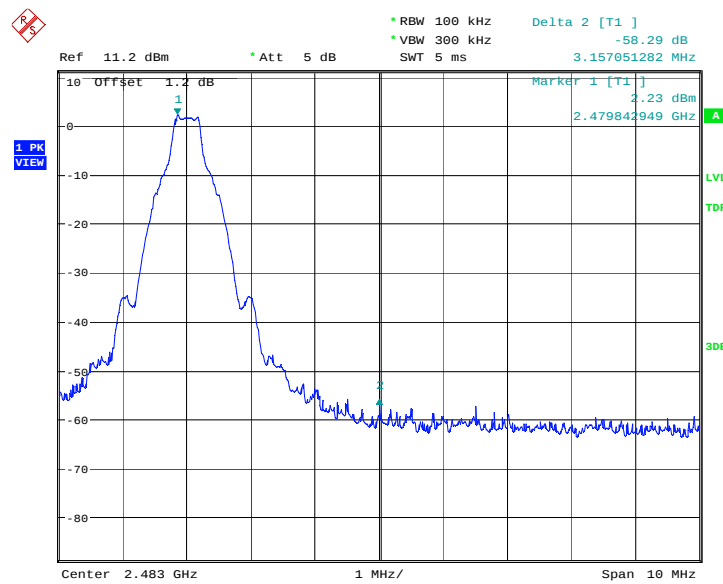
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Fig.1. Frequency Band Edges: GFSK, Channel 0, Hopping Off



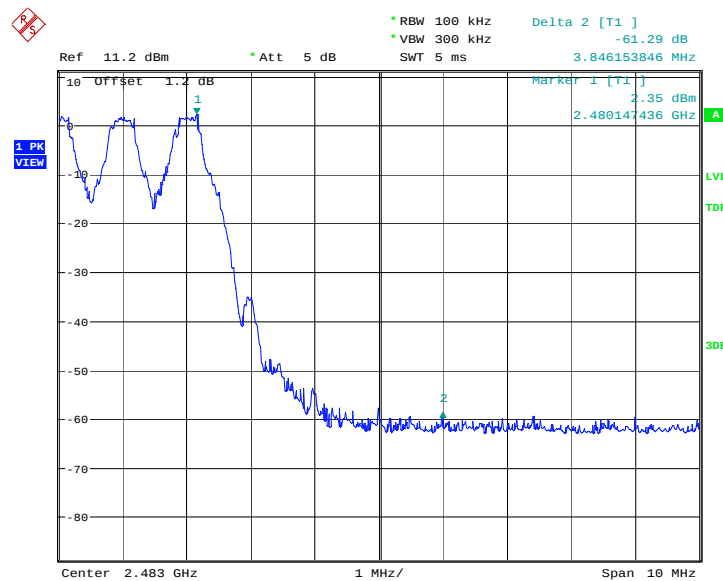
Date: 30.OCT.2013 20:33:48

Fig.2. Frequency Band Edges: GFSK, Channel 0, Hopping On



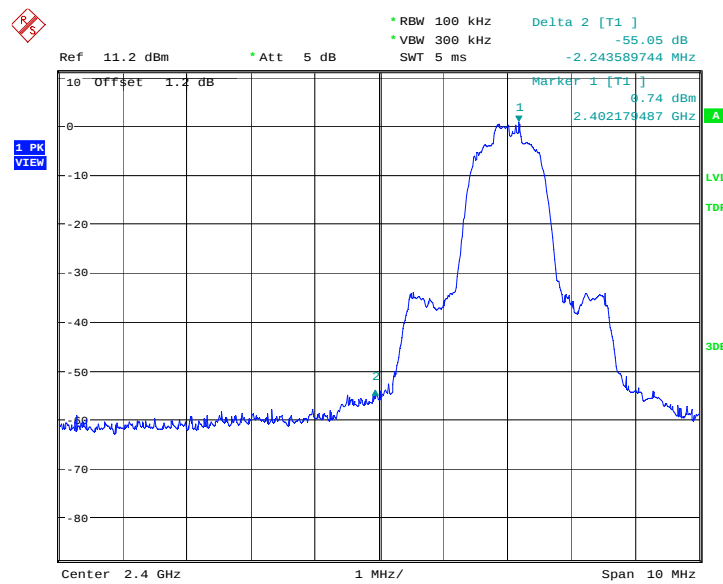
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Fig.3. Frequency Band Edges: GFSK, Channel 78, Hopping Off



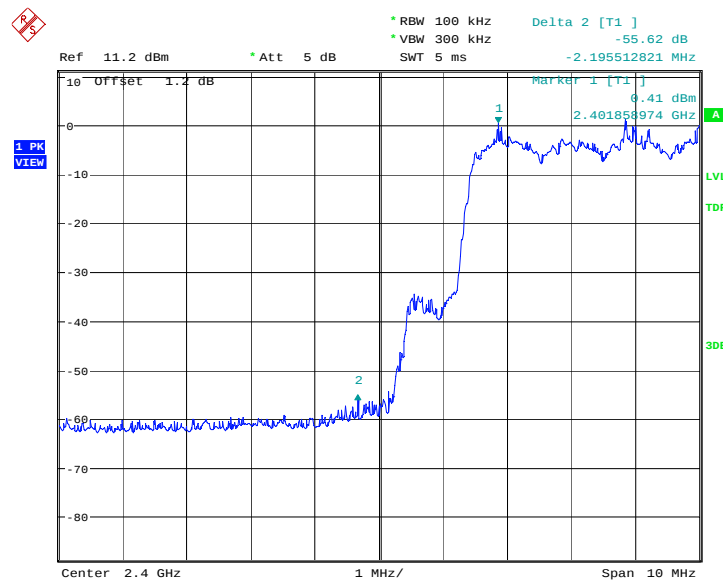
Date: 30.OCT.2013 20:35:51

Fig.4. Frequency Band Edges: GFSK, Channel 78, Hopping On



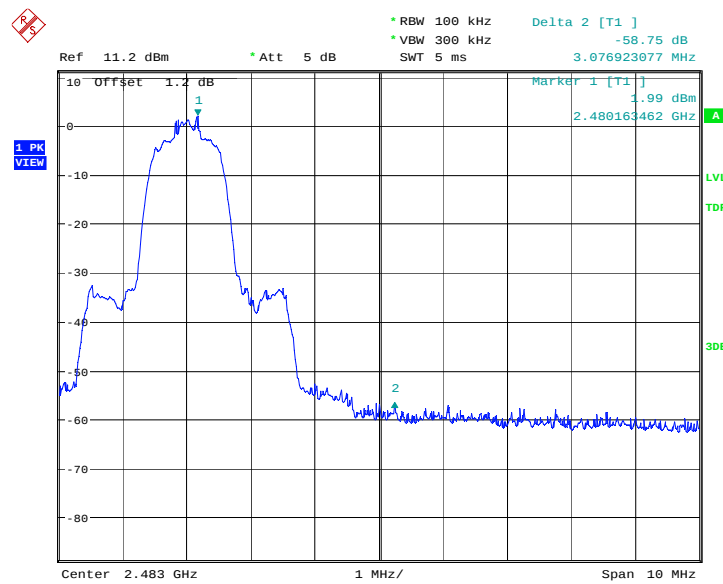
Date: 30.OCT.2013 20:52:57

Fig.5. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping Off



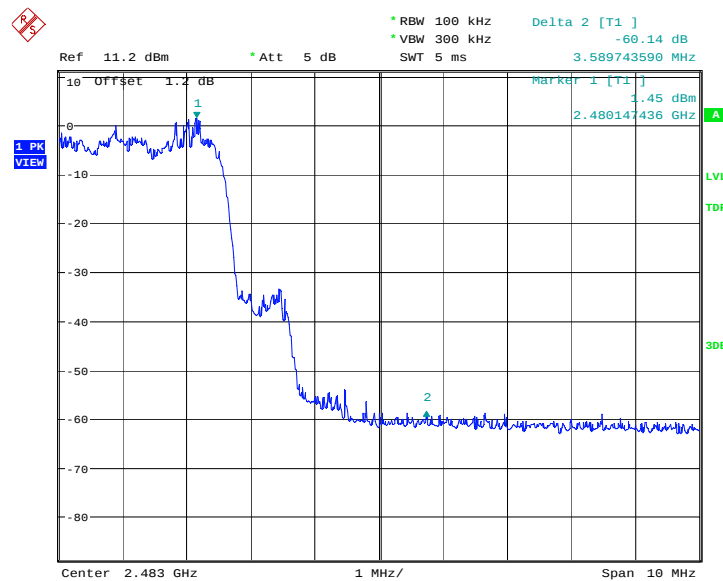
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Fig.6. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping On



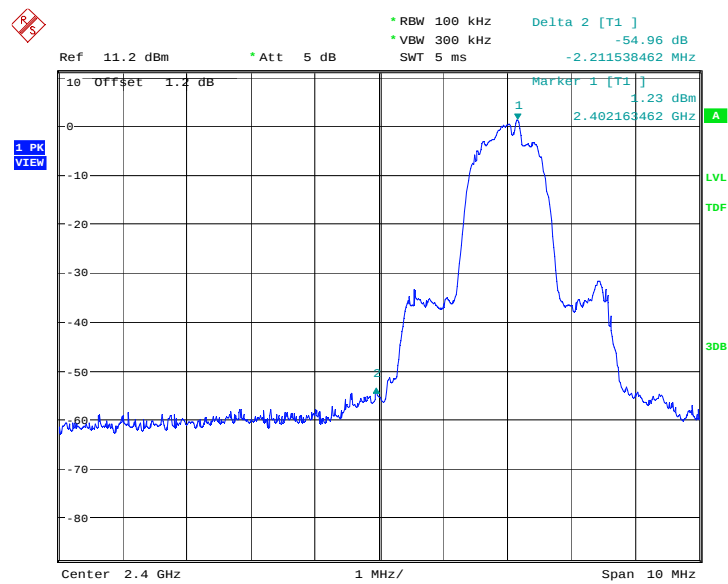
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Fig.7. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping Off



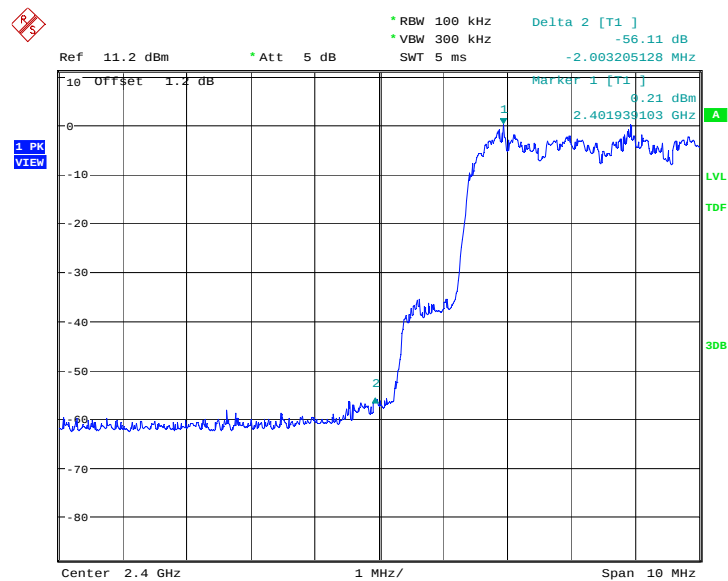
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Fig.8. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping On



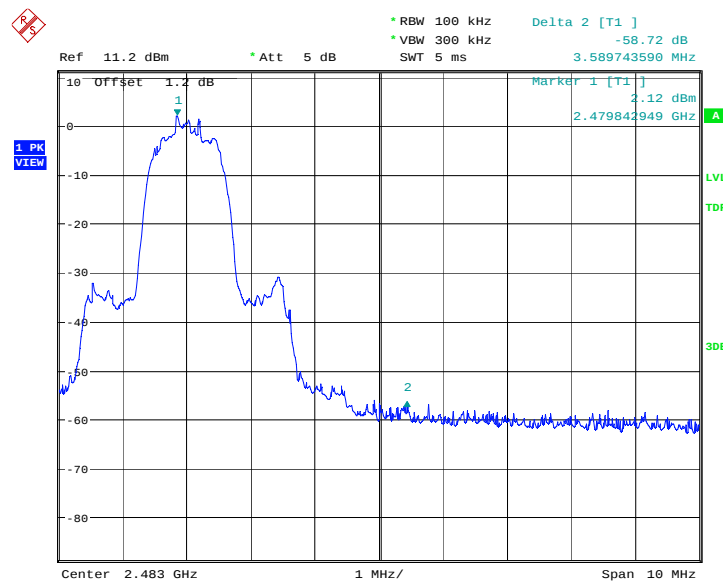
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Fig.9. Frequency Band Edges: 8DPSK, Channel 0, Hopping Off



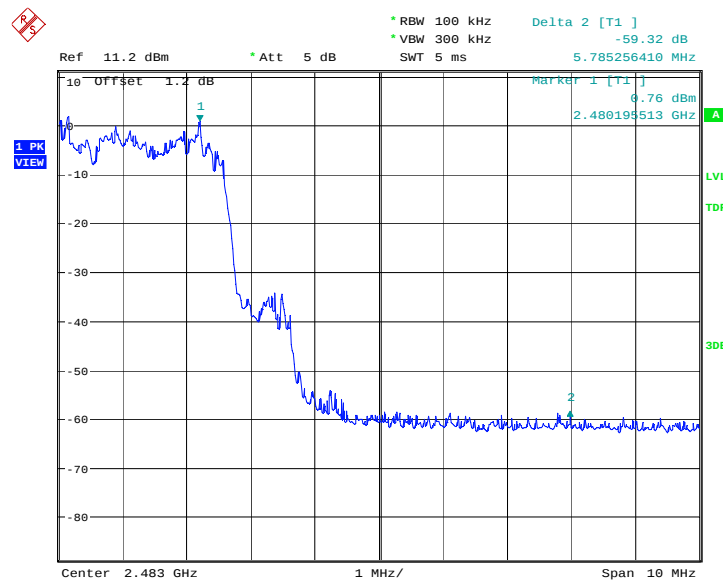
Date: 30.OCT.2013 21:16:39

Fig.10. Frequency Band Edges: 8DPSK, Channel 0, Hopping On



Date: 30.OCT.2013 21:14:36

Fig.11. Frequency Band Edges: 8DPSK, Channel 78, Hopping Off



Date: 30.OCT.2013 21:18:41

Fig.12. Frequency Band Edges: 8DPSK, Channel 78, Hopping On

A.4. Conducted Emission

Measurement Limit:

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

The measurement is made according to ANSI C63.10

Measurement Results:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.13	P
	30 MHz ~ 1 GHz	Fig.14	P
	1 GHz ~ 3 GHz	Fig.15	P
	3 GHz ~ 10 GHz	Fig.16	P
	10 GHz ~ 26 GHz	Fig.17	P
Ch 39 2441 MHz	Center Frequency	Fig.18	P
	30 MHz ~ 1 GHz	Fig.19	P
	1 GHz ~ 3 GHz	Fig.20	P
	3 GHz ~ 10 GHz	Fig.21	P
	10 GHz ~ 26 GHz	Fig.22	P
Ch 78 2480 MHz	Center Frequency	Fig.23	P
	30 MHz ~ 1 GHz	Fig.24	P
	1 GHz ~ 3 GHz	Fig.25	P
	3 GHz ~ 10 GHz	Fig.26	P
	10 GHz ~ 26 GHz	Fig.27	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.28	P
	30 MHz ~ 1 GHz	Fig.29	P
	1 GHz ~ 3 GHz	Fig.30	P
	3 GHz ~ 10 GHz	Fig.31	P
	10 GHz ~ 26 GHz	Fig.32	P
Ch 39 2441 MHz	Center Frequency	Fig.33	P
	30 MHz ~ 1 GHz	Fig.34	P
	1 GHz ~ 3 GHz	Fig.35	P
	3 GHz ~ 10 GHz	Fig.36	P
	10 GHz ~ 26 GHz	Fig.37	P
Ch 78 2480 MHz	Center Frequency	Fig.38	P
	30 MHz ~ 1 GHz	Fig.39	P

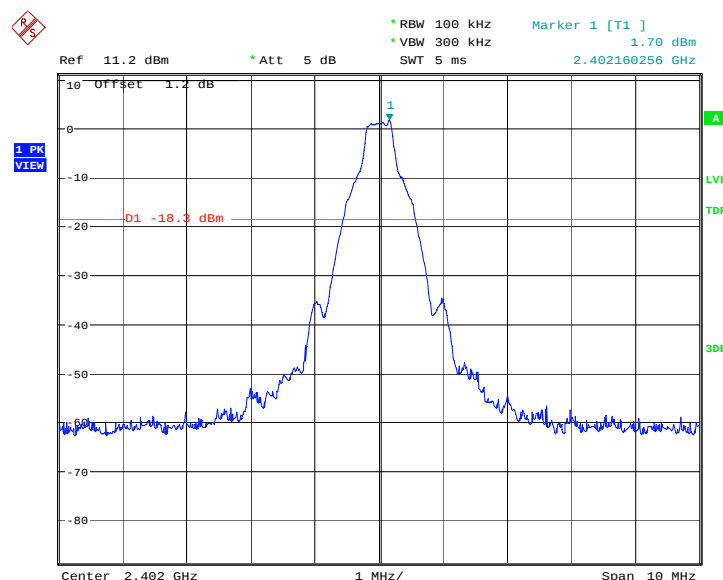
	1 GHz ~ 3 GHz	Fig.40	P
	3 GHz ~ 10 GHz	Fig.41	P
	10 GHz ~ 26 GHz	Fig.42	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.43	P
	30 MHz ~ 1 GHz	Fig.44	P
	1 GHz ~ 3 GHz	Fig.45	P
	3 GHz ~ 10 GHz	Fig.46	P
	10 GHz ~ 26 GHz	Fig.47	P
Ch 39 2441 MHz	Center Frequency	Fig.48	P
	30 MHz ~ 1 GHz	Fig.49	P
	1 GHz ~ 3 GHz	Fig.50	P
	3 GHz ~ 10 GHz	Fig.51	P
	10 GHz ~ 26 GHz	Fig.52	P
Ch 78 2480 MHz	Center Frequency	Fig.53	P
	30 MHz ~ 1 GHz	Fig.54	P
	1 GHz ~ 3 GHz	Fig.55	P
	3 GHz ~ 10 GHz	Fig.56	P
	10 GHz ~ 26 GHz	Fig.57	P

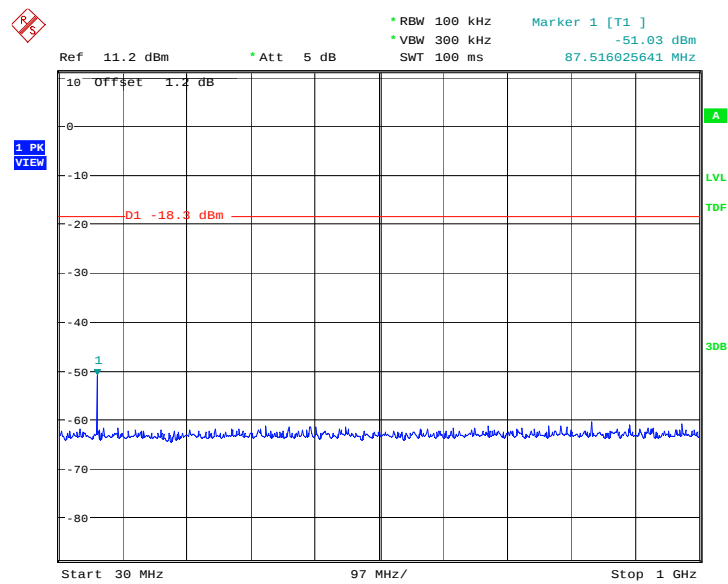
Conclusion: PASS

Test graphs as below



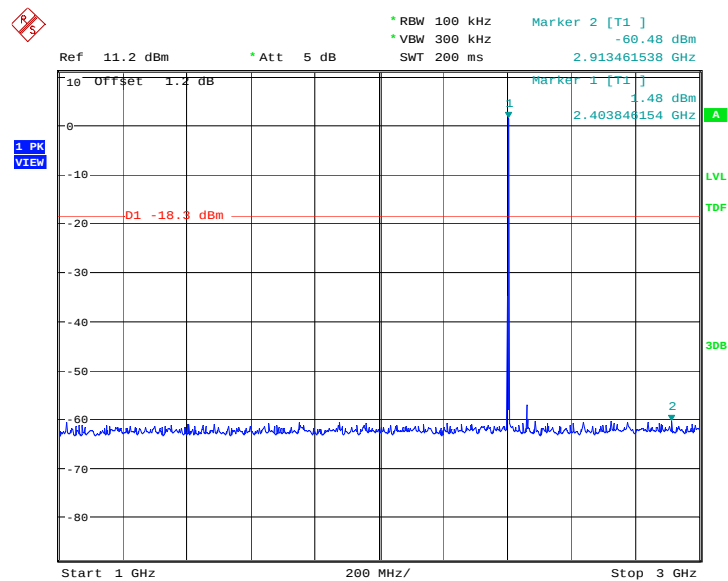
Date: 30.OCT.2013 20:36:10

Fig.13. Conducted spurious emission: GFSK, Channel 0,2402MHz



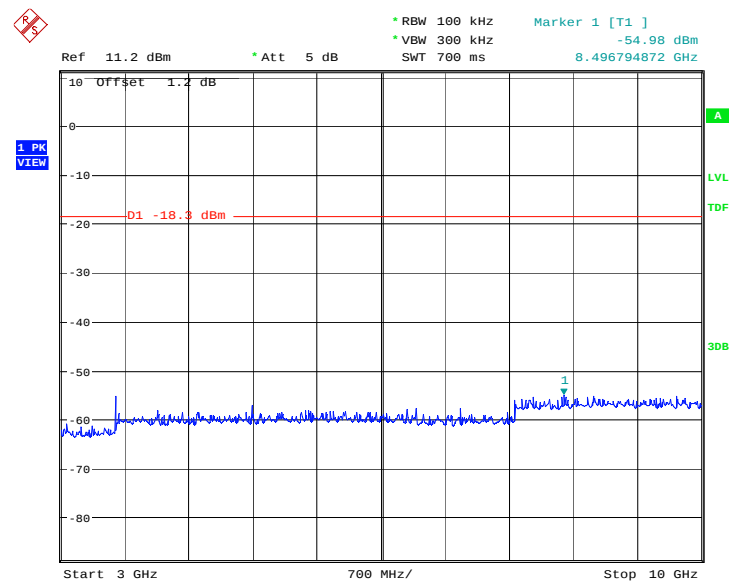
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Fig.14. Conducted spurious emission: GFSK, Channel 0, 30MHz - 1GHz



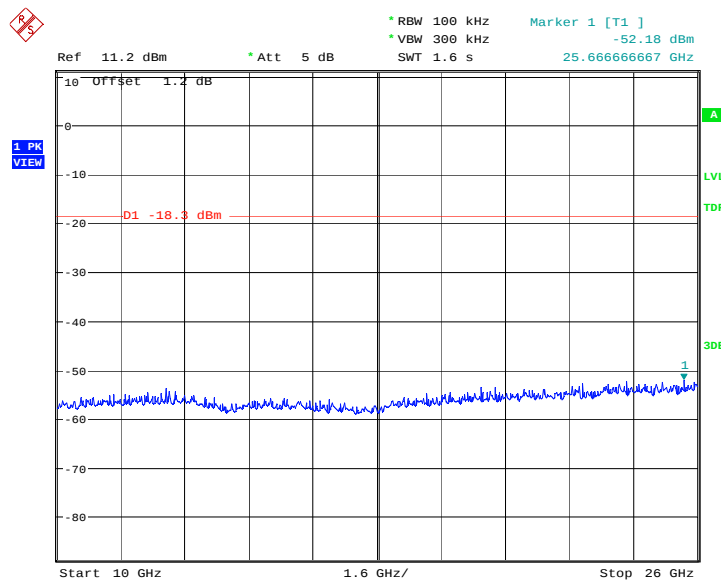
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Fig.15. Conducted spurious emission: GFSK, Channel 0, 1GHz - 3GHz



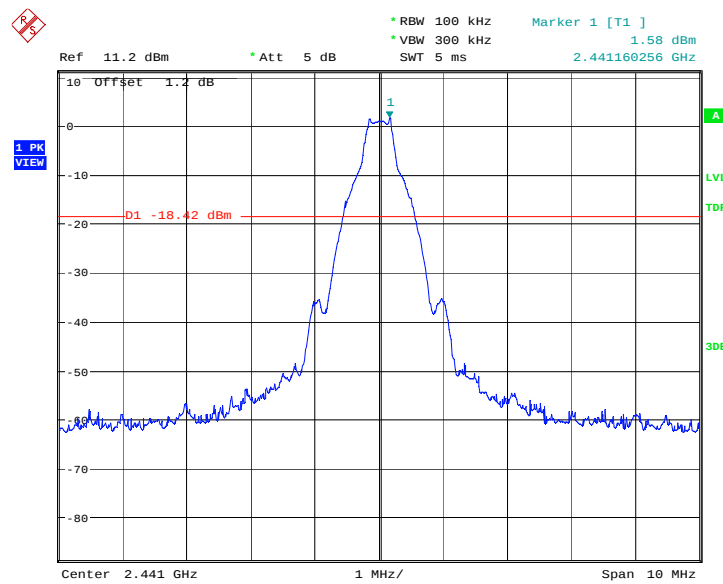
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Fig.16. Conducted spurious emission: GFSK, Channel 0, 3GHz - 10GHz



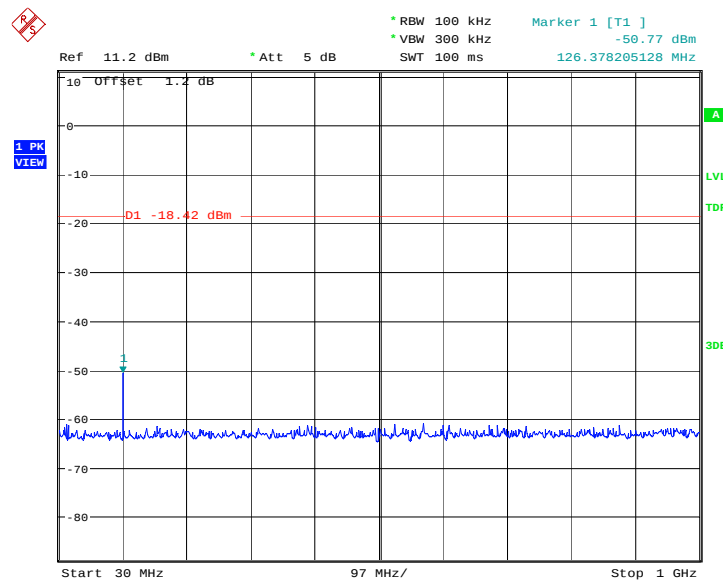
Date: 30.OCT.2013 20:37:31

Fig.17. Conducted spurious emission: GFSK, Channel 0, 10GHz - 26GHz



Date: 30.OCT.2013 20:37:48

Fig.18. Conducted spurious emission: GFSK, Channel 39, 2441MHz



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Fig.19. Conducted spurious emission: GFSK, Channel 39, 30MHz - 1GHz

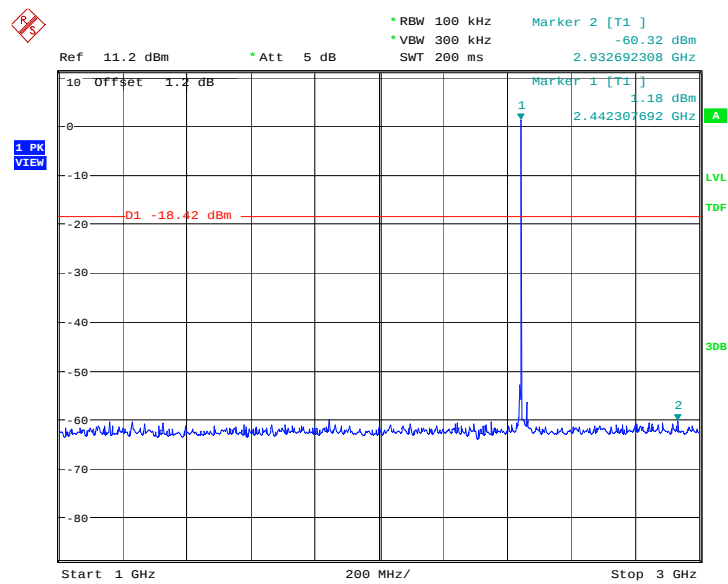


Fig.20. Conducted spurious emission: GFSK, Channel 39, 1GHz – 3GHz

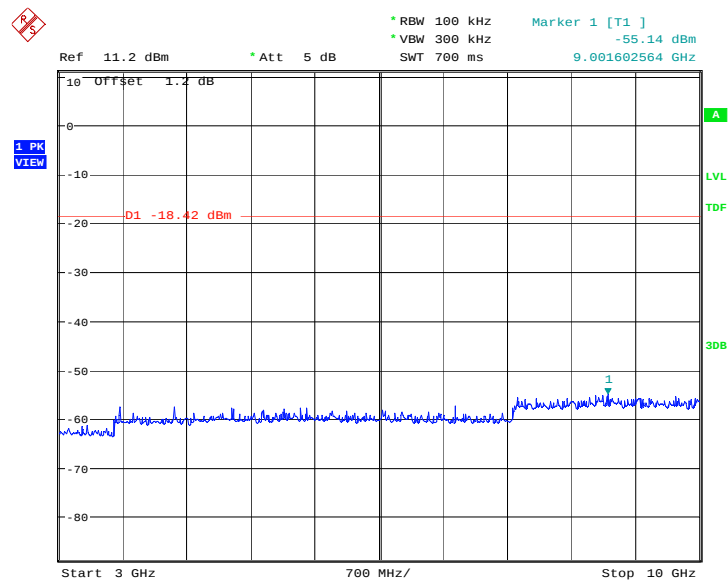
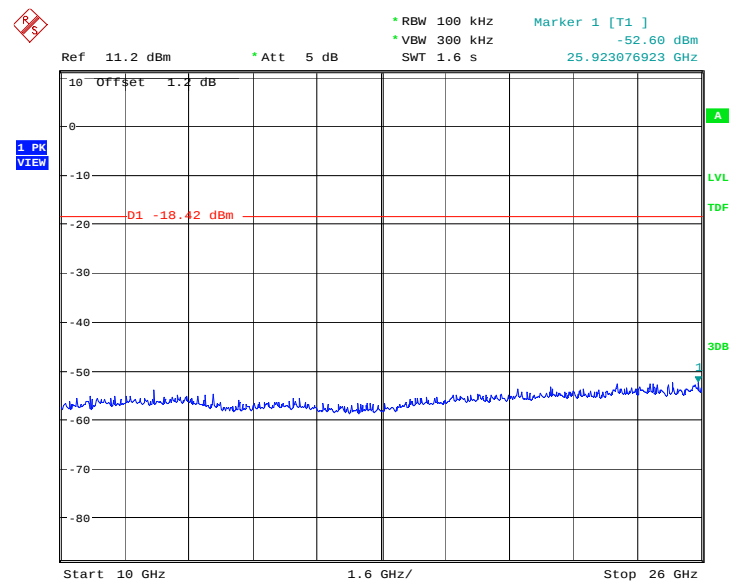
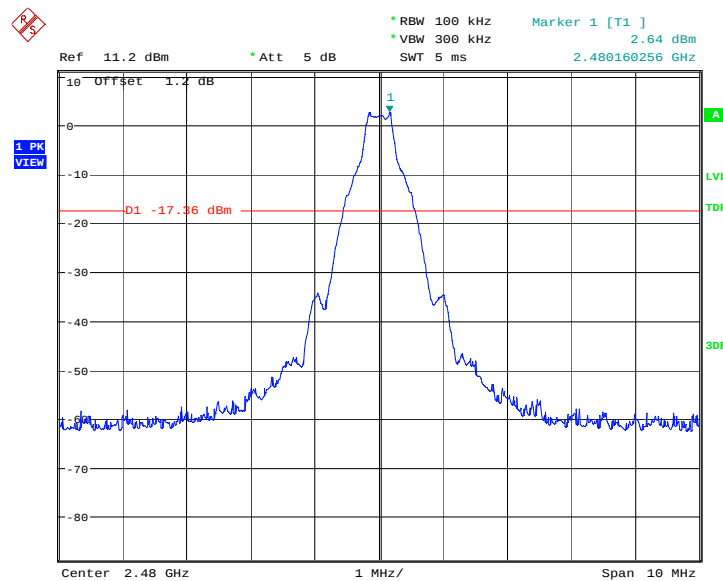


Fig.21. Conducted spurious emission: GFSK, Channel 39, 3GHz – 10GHz



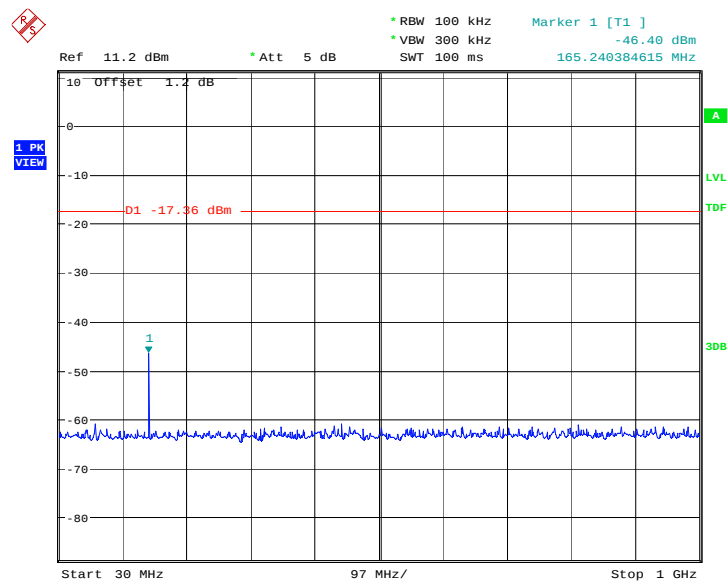
Date: 30.OCT.2013 20:39:09

Fig.22. Conducted spurious emission: GFSK, Channel 39, 10GHz – 26GHz



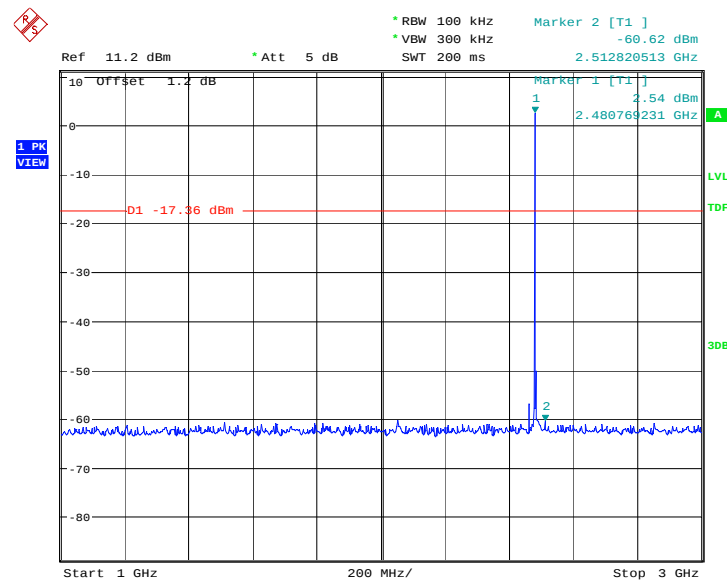
Date: 30.OCT.2013 20:39:26

Fig.23. Conducted spurious emission: GFSK, Channel 78, 2480MHz



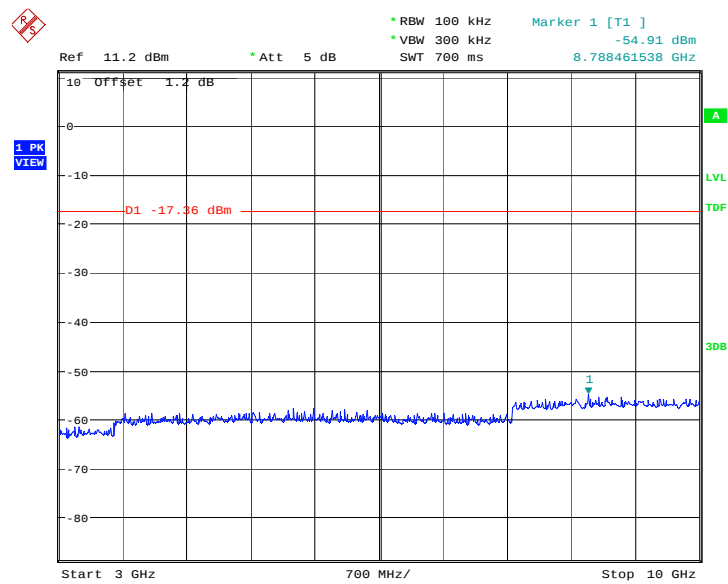
Date: 30.OCT.2013 20:39:42

Fig.24. Conducted spurious emission: GFSK, Channel 78, 30MHz - 1GHz



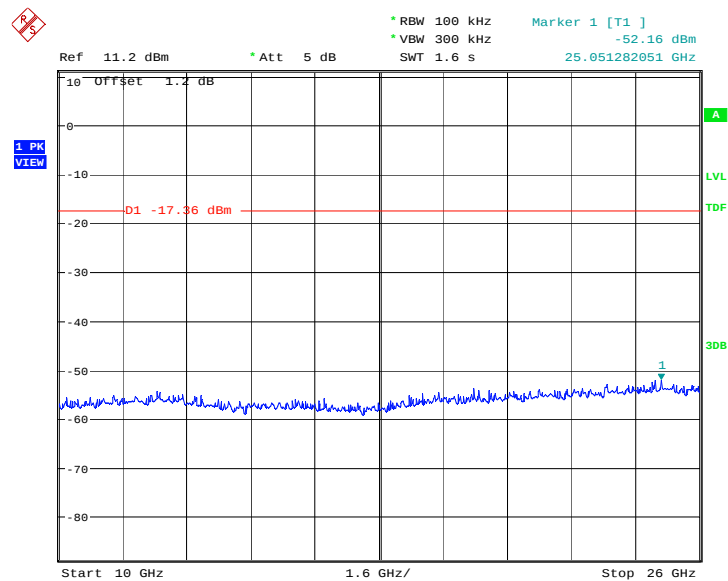
Date: 30.OCT.2013 20:40:14

Fig.25. Conducted spurious emission: GFSK, Channel 78, 1GHz - 3GHz



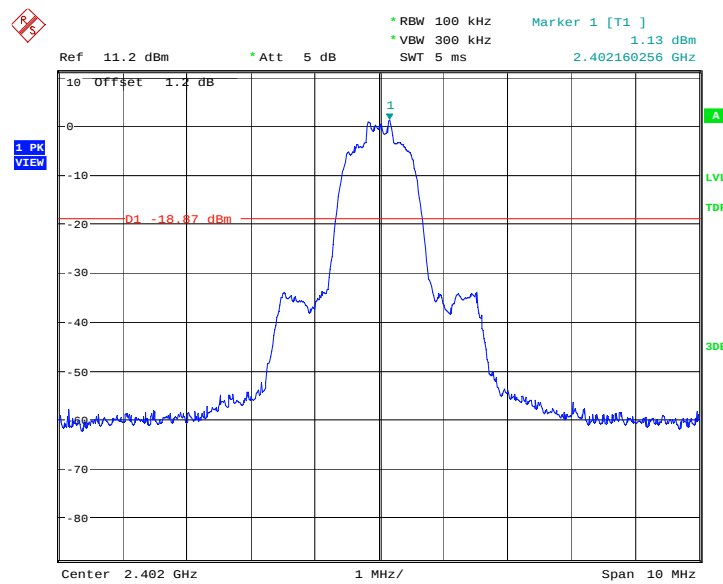
Date: 30.OCT.2013 20:40:31

Fig.26. Conducted spurious emission: GFSK, Channel 78, 3GHz - 10GHz



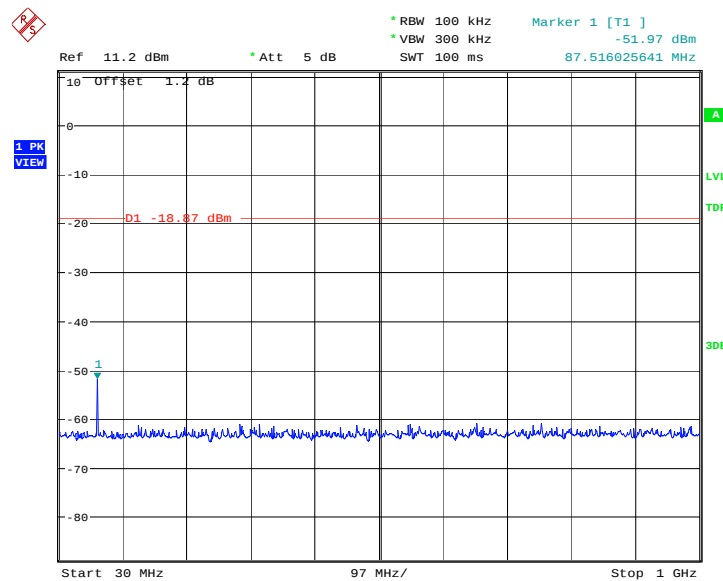
Date: 30.OCT.2013 20:40:47

Fig.27. Conducted spurious emission: GFSK, Channel 78, 10GHz - 26GHz



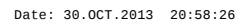
Date: 30.OCT.2013 20:57:38

Fig.28. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0,2402MHz



Date: 30.OCT.2013 20:57:55

Fig.29. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 30MHz - 1GHz



* RBW 100 kHz
 * VBW 300 kHz
 SWT 700 ms

Ref 11.2 dBm
 * Att 5 dB

Marker 1 [T1]
 -54.86 dBm
 9.472756410 GHz

1 PK
 VIEW

10 Offset 1.2 dB

0
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -80

01 -18.87 dBm

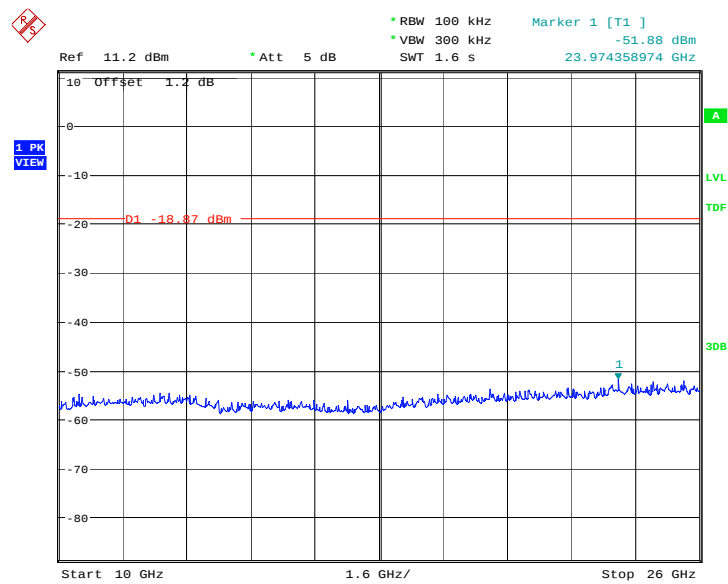
1

Start 3 GHz
 700 MHz/
 Stop 10 GHz

A
 LVL
 TDF
 3DB

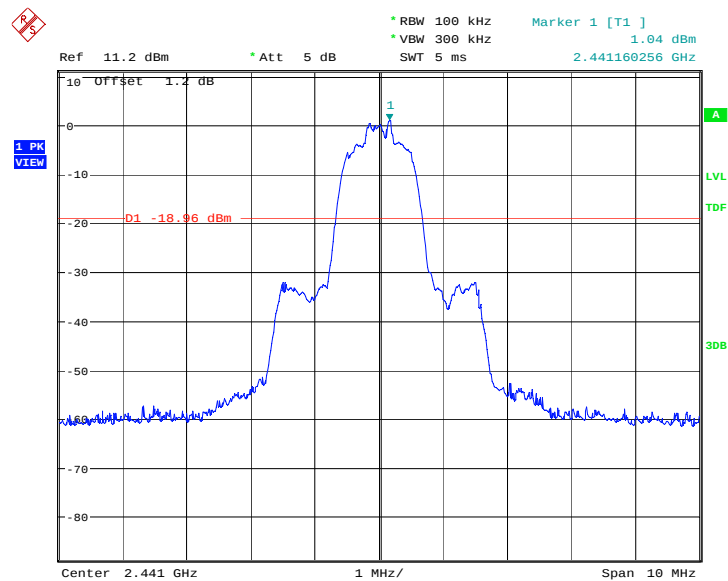
Date: 30.OCT.2013 20:58:42

Fig.31. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 3GHz - 10GHz



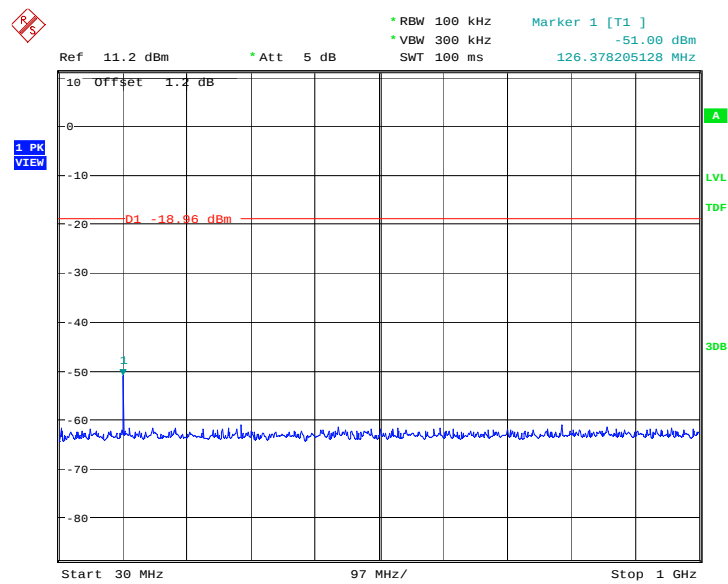
Date: 30.OCT.2013 20:58:58

Fig.32. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 10GHz - 26GHz



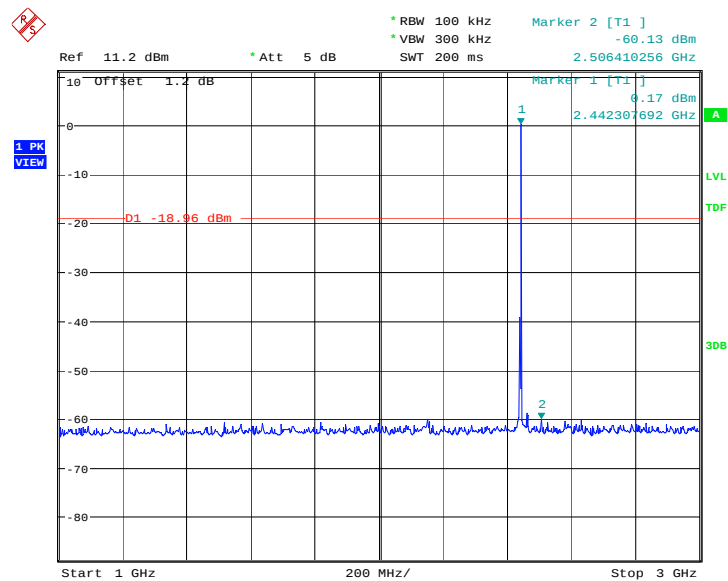
Date: 30.OCT.2013 20:59:14

Fig.33. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 2441MHz



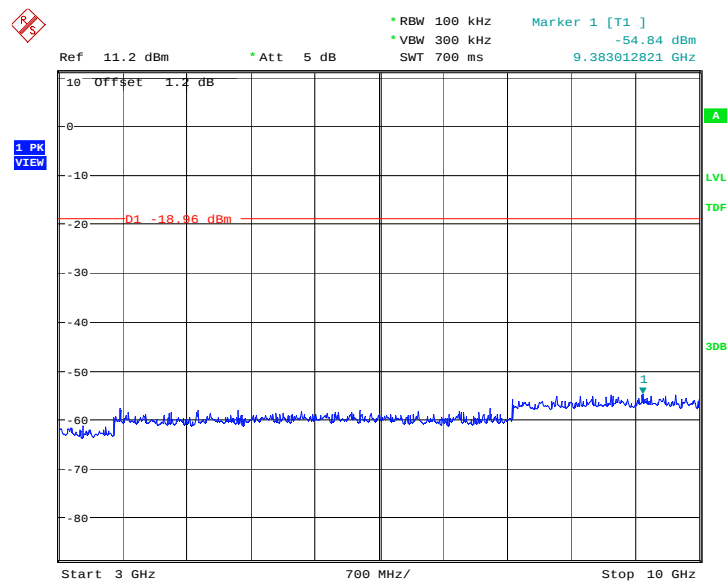
Date: 30.OCT.2013 20:59:30

Fig.34. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 30MHz - 1GHz



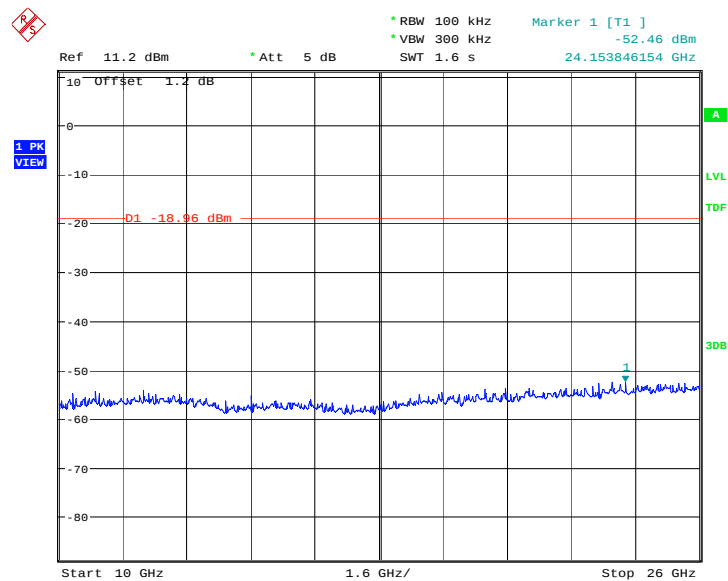
Date: 30.OCT.2013 21:00:01

Fig.35. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 1GHz - 3GHz



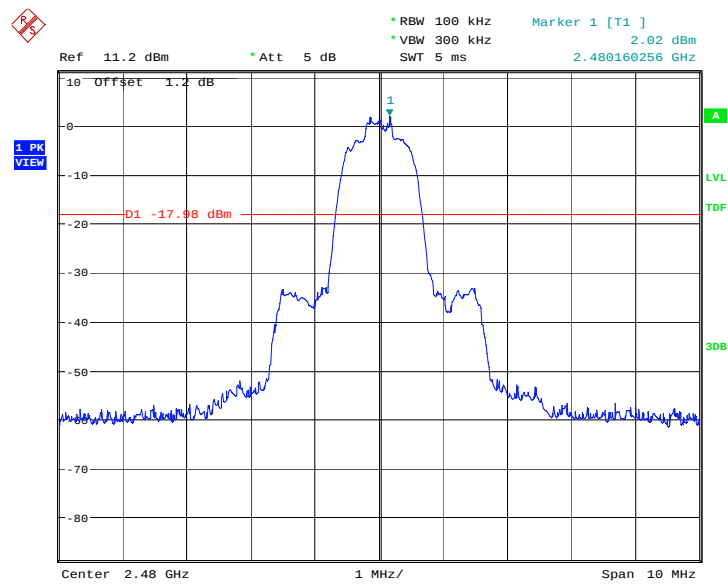
Date: 30.OCT.2013 21:00:17

Fig.36. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 3GHz - 10GHz



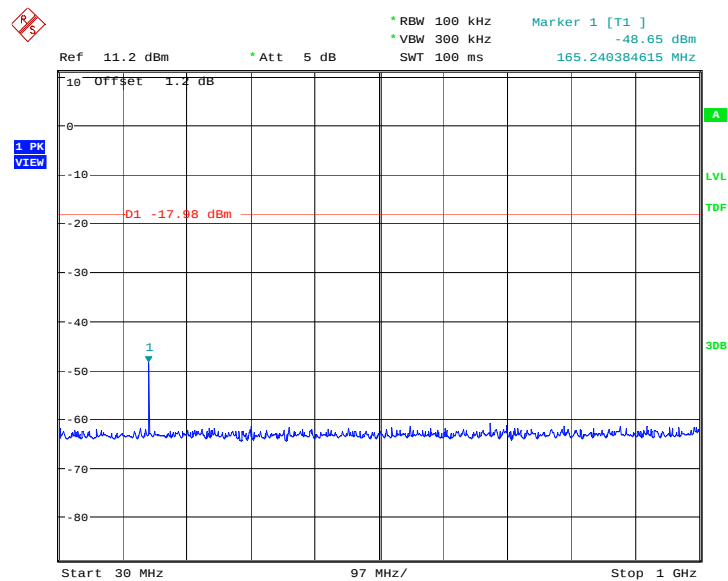
Date: 30.OCT.2013 21:00:33

Fig.37. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 10GHz – 26GHz



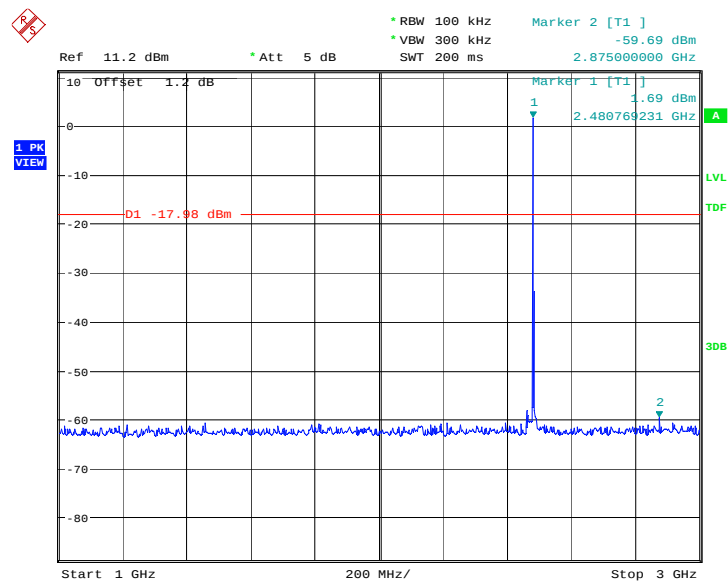
Date: 30.OCT.2013 21:00:49

Fig.38. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 2480MHz



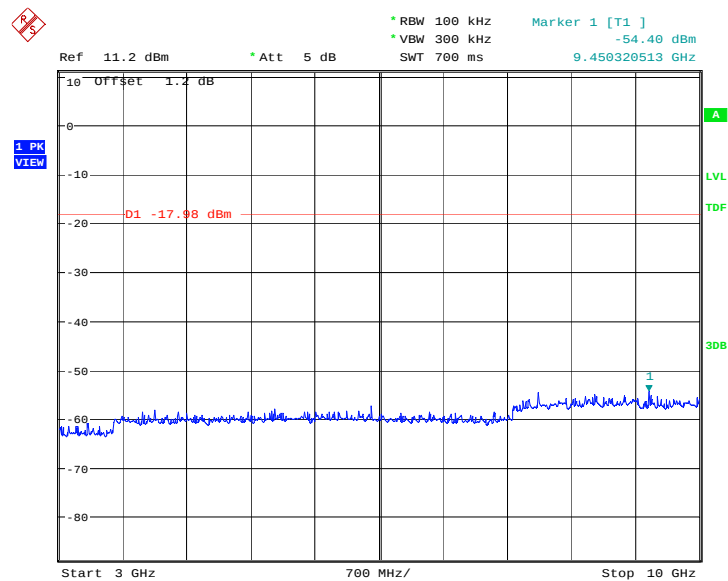
Date: 30.OCT.2013 21:01:05

Fig.39. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 30MHz - 1GHz



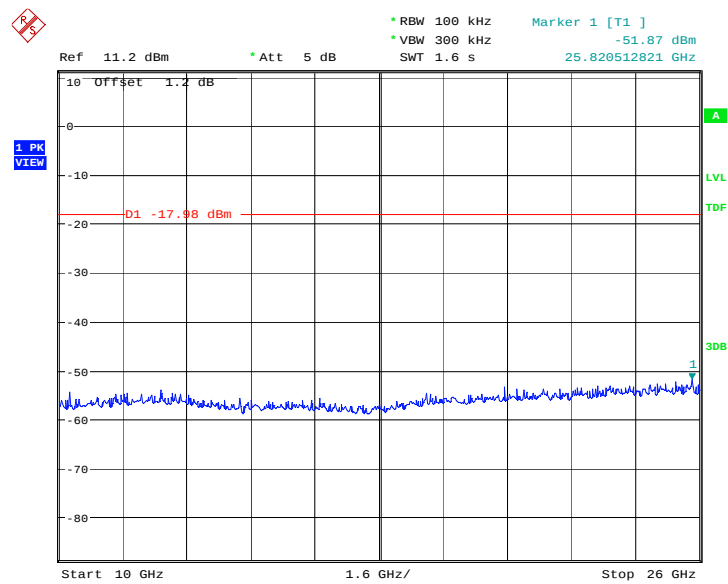
Date: 30.OCT.2013 21:01:36

Fig.40. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 1GHz - 3GHz



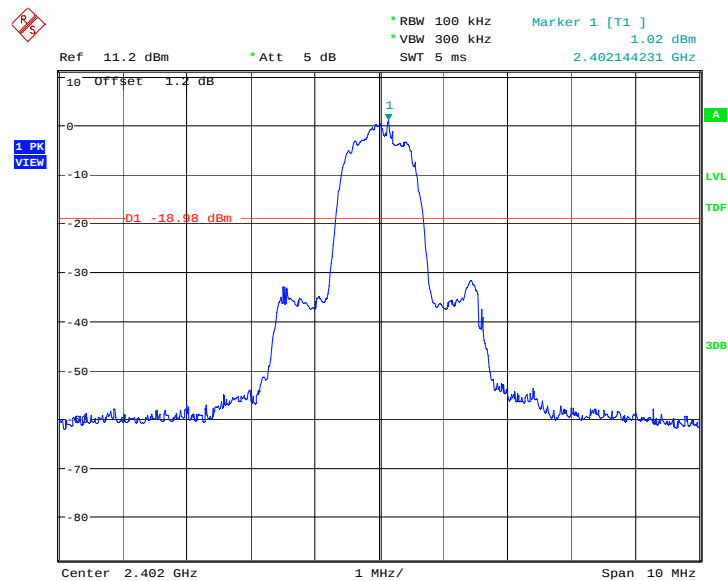
Date: 30.OCT.2013 21:01:52

Fig.41. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 3GHz - 10GHz



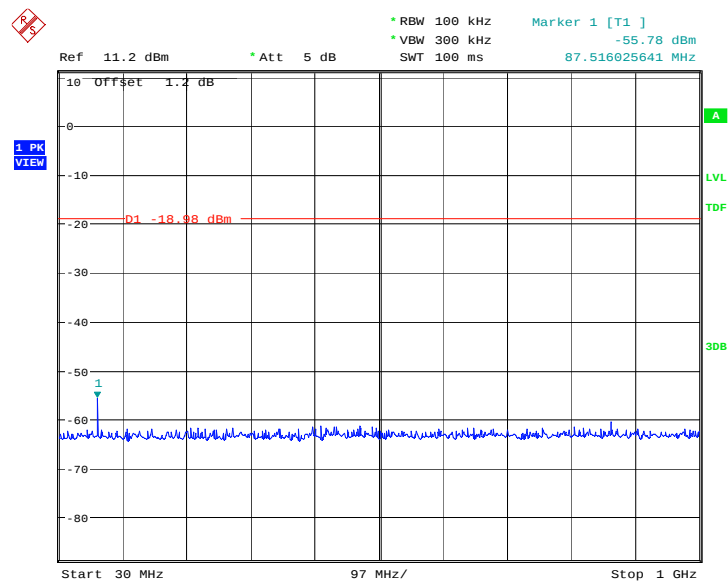
Date: 30.OCT.2013 21:02:09

Fig.42. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 10GHz - 26GHz



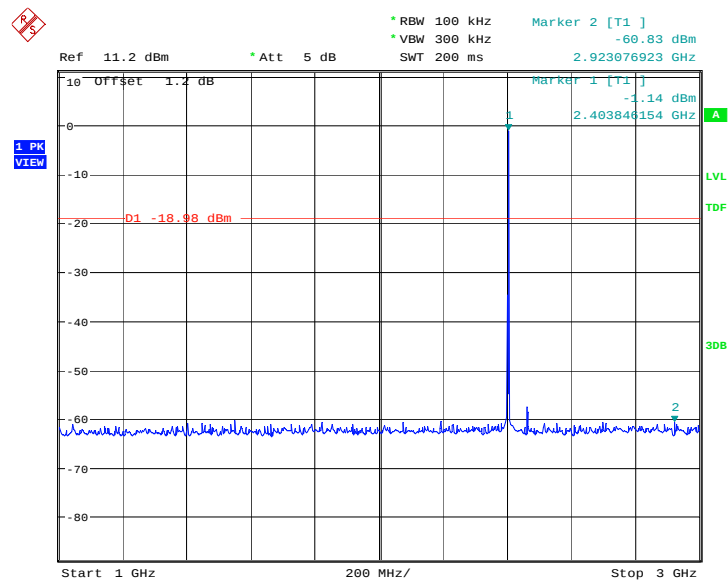
Date: 30.OCT.2013 21:19:00

Fig.43. Conducted spurious emission: 8DPSK, Channel 0, 2402MHz



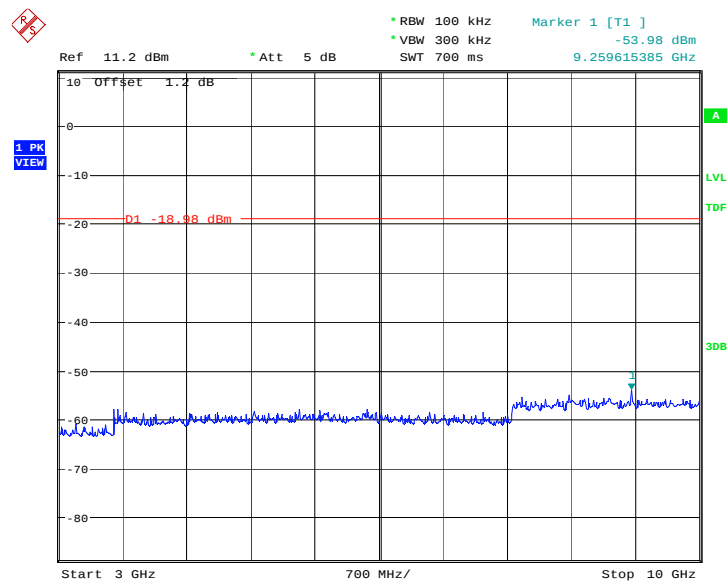
Date: 30.OCT.2013 21:19:17

Fig.44. Conducted spurious emission: 8DPSK, Channel 0, 30MHz - 1GHz



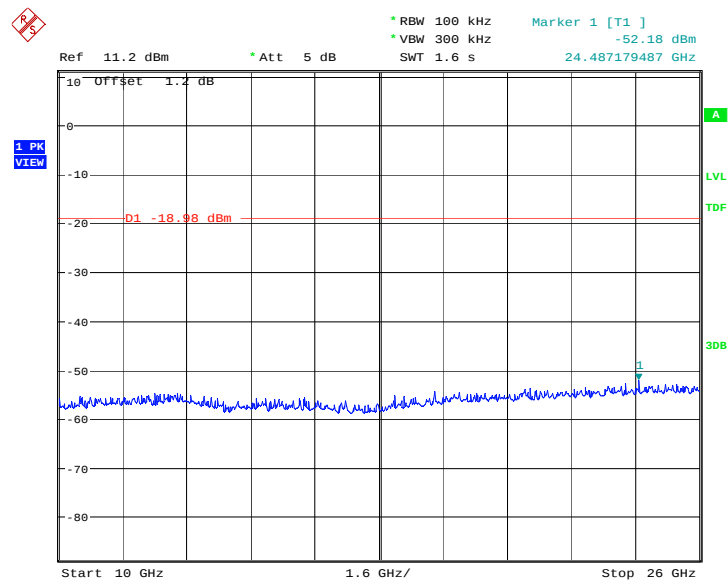
Date: 30.OCT.2013 21:19:48

Fig.45. Conducted spurious emission: 8DPSK, Channel 0, 1GHz - 3GHz



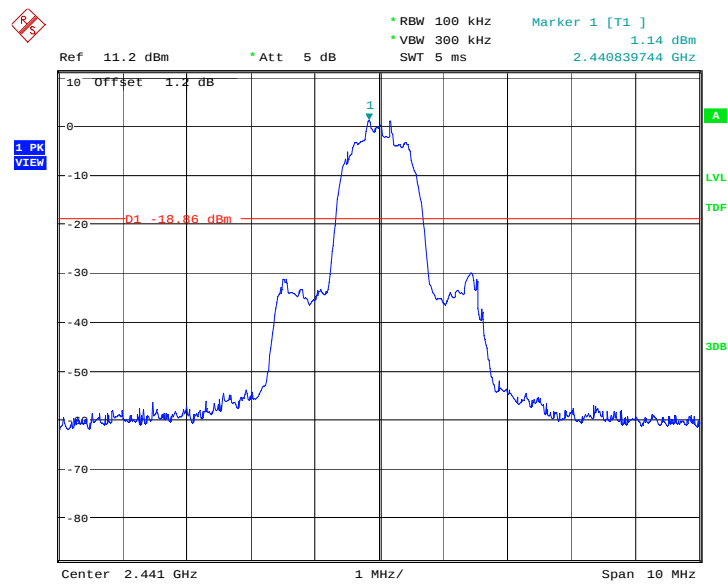
Date: 30.OCT.2013 21:20:05

Fig.46. Conducted spurious emission: 8DPSK, Channel 0, 3GHz - 10GHz



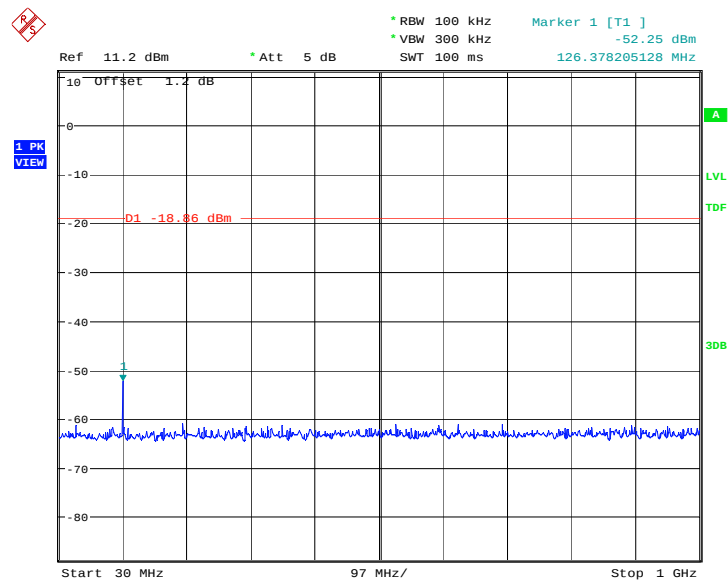
Date: 30.OCT.2013 21:20:22

Fig.47. Conducted spurious emission: 8DPSK, Channel 0, 10GHz - 26GHz



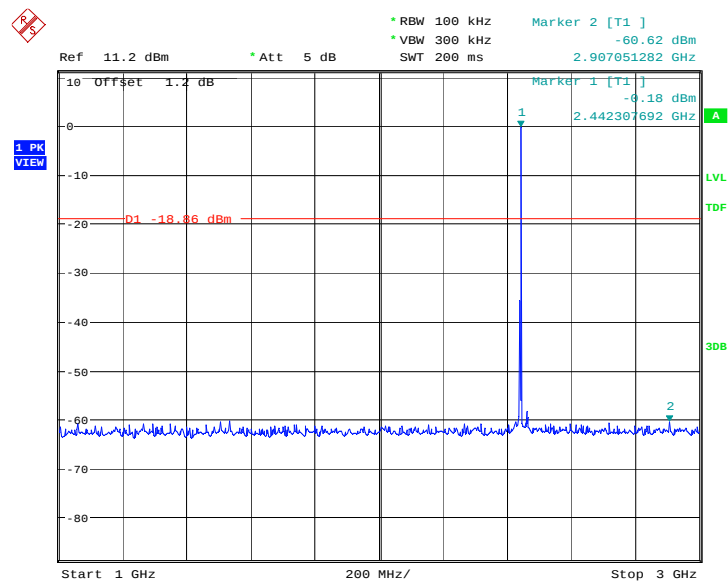
Date: 30.OCT.2013 21:20:38

Fig.48. Conducted spurious emission: 8DPSK, Channel 39, 2441MHz



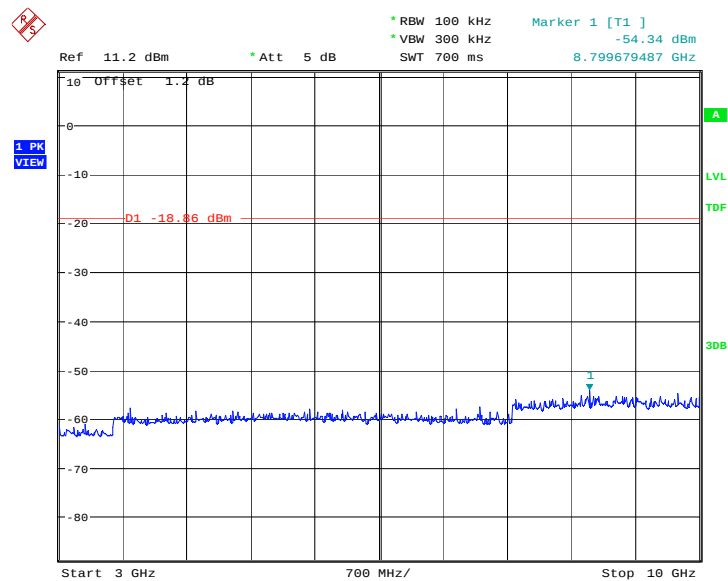
Date: 30.OCT.2013 21:20:55

Fig.49. Conducted spurious emission: 8DPSK, Channel 39, 30MHz - 1GHz



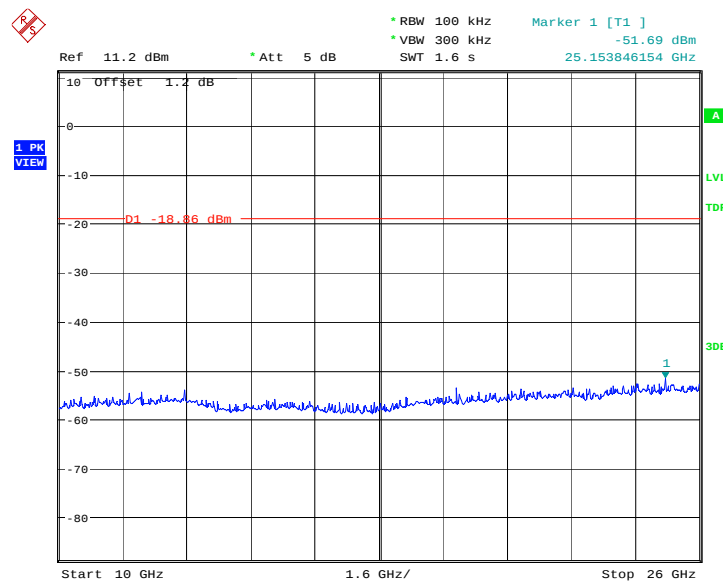
Date: 30.OCT.2013 21:21:27

Fig.50. Conducted spurious emission: 8DPSK, Channel 39, 1GHz - 3GHz



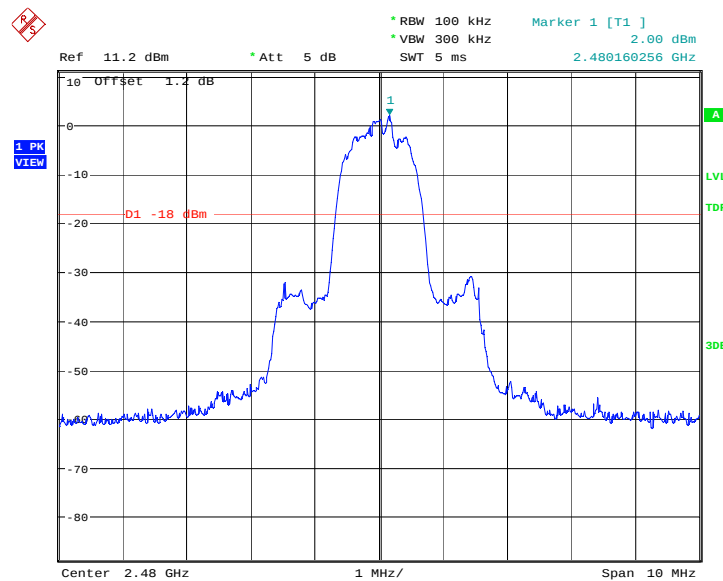
Date: 30.OCT.2013 21:21:43

Fig.51. Conducted spurious emission: 8DPSK, Channel 39, 3GHz - 10GHz



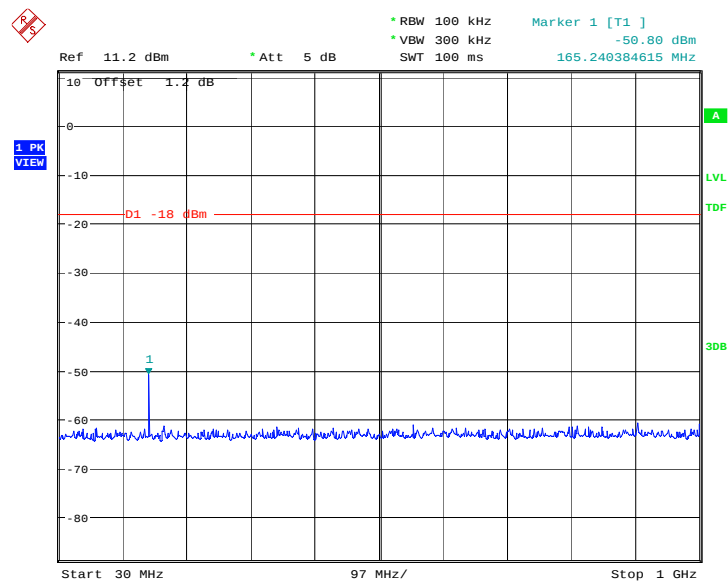
Date: 30.OCT.2013 21:22:00

Fig.52. Conducted spurious emission: 8DPSK, Channel 39, 10GHz – 26GHz



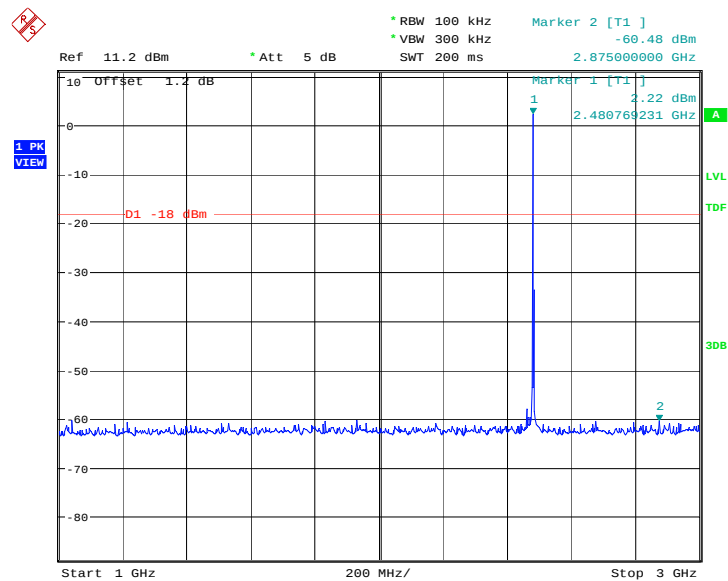
Date: 30.OCT.2013 21:22:16

Fig.53. Conducted spurious emission: 8DPSK, Channel 78, 2480MHz



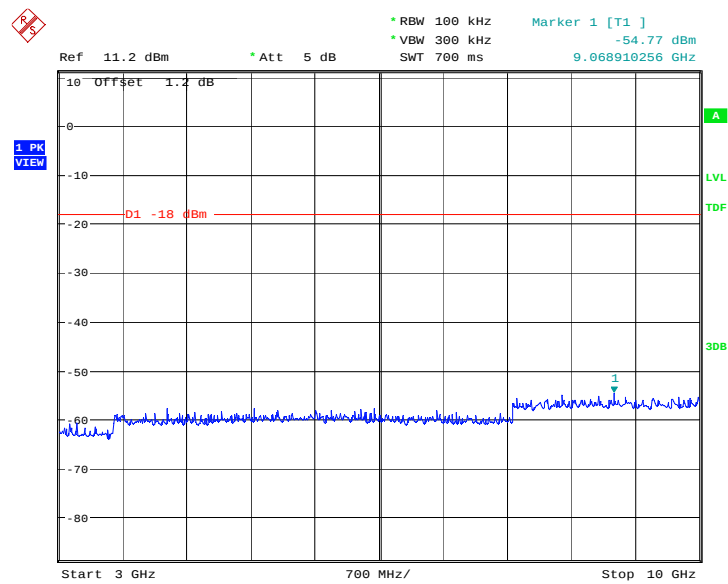
Date: 30.OCT.2013 21:22:33

Fig.54. Conducted spurious emission: 8DPSK, Channel 78, 30MHz - 1GHz



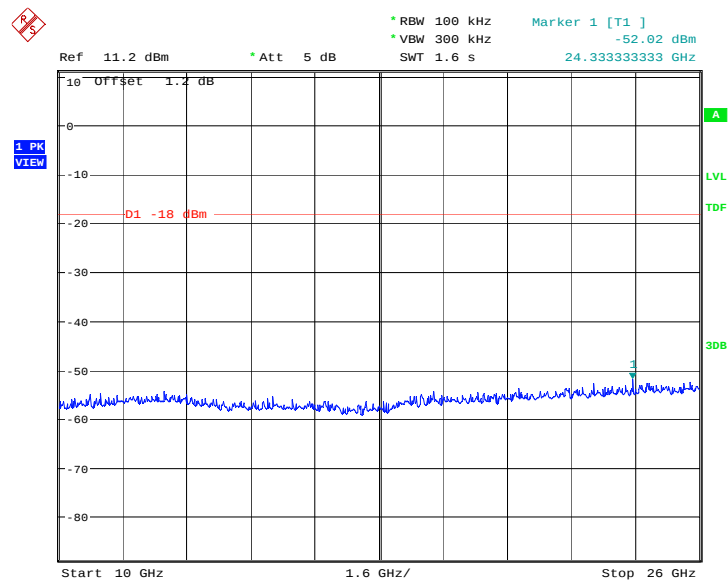
Date: 30.OCT.2013 21:23:04

Fig.55. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 3GHz



Date: 30.OCT.2013 21:23:21

Fig.56. Conducted spurious emission: 8DPSK, Channel 78, 3GHz - 10GHz



Date: 30.OCT.2013 21:23:38

Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 10GHz - 26GHz

A.5. Radiated Emission

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)).

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:

Result= P_{Mea} +ARPL

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.58	P
	1 GHz ~ 3 GHz	Fig.59	P
	3 GHz ~ 18 GHz	Fig.60	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.61	P
	1 GHz ~ 3 GHz	Fig.62	P
	3 GHz ~ 18 GHz	Fig.63	P
Ch 78 2480 MHz	30 MHz ~ 1 GHz	Fig.64	P
	1 GHz ~ 3 GHz	Fig.65	P
	3 GHz ~ 18 GHz	Fig.66	P

Power	2.38GHz~2.4GHz---L	Fig.67	P
Power	2.45GHz~2.5GHz---H	Fig.68	P
For all channels	18 GHz ~ 26 GHz	Fig.69	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.70	P
	1 GHz ~ 3 GHz	Fig.71	P
	3 GHz ~ 18 GHz	Fig.72	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.73	P
	1 GHz ~ 3 GHz	Fig.74	P
	3 GHz ~ 18 GHz	Fig.75	P
Ch 78 2480 MHz	30 MHz ~ 1 GHz	Fig.76	P
	1 GHz ~ 3 GHz	Fig.77	P
	3 GHz ~ 18 GHz	Fig.78	P
Power	2.38GHz~2.4GHz---L	Fig.79	P
Power	2.45GHz~2.5GHz---H	Fig.80	P
For all channels	18 GHz ~ 26 GHz	Fig.81	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	30 MHz ~ 1 GHz	Fig.82	P
	1 GHz ~ 3 GHz	Fig.83	P
	3 GHz ~ 18 GHz	Fig.84	P
Ch 39 2441 MHz	30 MHz ~ 1 GHz	Fig.85	P
	1 GHz ~ 3 GHz	Fig.86	P
	3 GHz ~ 18 GHz	Fig.87	P
Ch 78 2480 MHz	30 MHz ~ 1 GHz	Fig.88	P
	1 GHz ~ 3 GHz	Fig.89	P
	3 GHz ~ 18 GHz	Fig.90	P
Power	2.38GHz~2.4GHz---L	Fig.91	P
Power	2.45GHz~2.5GHz---H	Fig.92	P
For all channels	18 GHz ~ 26 GHz	Fig.93	P

GFSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	PMea(dBuv/m)	Polarization
2357	36.7	1.7	35	V
3239.75	34.8	3.3	31.5	V
7557.875	36.7	6.9	29.8	V
10032	39.3	9.4	29.9	V
13183	41.6	11.5	30.1	V
16711	47	14.2	32.8	V

GFSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	36.9	1.7	35.2	V
3239.75	35.1	3.3	31.8	H
7555.25	36.6	6.9	29.7	V
10037	39.3	9.4	29.9	V
13449	41.7	11.4	30.3	V
16779	47.2	14.3	32.9	V

GFSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	37.1	1.7	35.4	V
3239.75	35.3	3.3	32	H
7560.5	36.8	6.9	29.9	V
10029	39.3	9.4	29.9	V
13177	41.8	11.5	30.3	V
16727	47.3	14.3	33	V

 $\pi/4$ DQPSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	37.2	1.7	35.5	V
3239.75	35.3	3.3	32	H
7557.875	36.9	6.9	30	V
10034	39.5	9.4	30.1	V
13448	41.9	11.4	30.5	H
16779	47.5	14.3	33.2	V

 $\pi/4$ DQPSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	36.9	1.7	35.2	V
3239.75	35.2	3.3	31.9	H
7557.875	36.8	6.9	29.9	V
10024	39.3	9.4	29.9	V
12657	42	11.2	30.8	V
16779	47.6	14.3	33.3	H

 $\pi/4$ DQPSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	37	1.7	35.3	V
3239.75	35.2	3.3	31.9	H
7560.5	36.8	6.9	29.9	V
10028	39.4	9.4	30	V
13277	41.9	11.4	30.5	V
16787	47.4	14.3	33.1	V

8DPSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	37.1	1.7	35.4	V
3239.75	35.2	3.3	31.9	H
7560.5	36.8	6.9	29.9	V
10027	39.6	9.4	30.2	V
12667	41.9	11.2	30.7	V
16779	47.5	14.3	33.2	V

8DPSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	37.2	1.7	35.5	V
3239.75	35.3	3.3	32	H
7557.875	36.8	6.9	29.9	V
10035	39.5	9.4	30.1	V
13453	42	11.4	30.6	V
16774	47.5	14.3	33.2	H

8DPSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2357	37.3	1.7	35.6	V
3239.75	35.3	3.3	32	H
7555.25	36.8	6.9	29.9	V
10004	39.4	9.4	30	V
13448	41.9	11.4	30.5	V
16800	47.5	14.3	33.2	H

Conclusion: PASS

Test graphs as below:

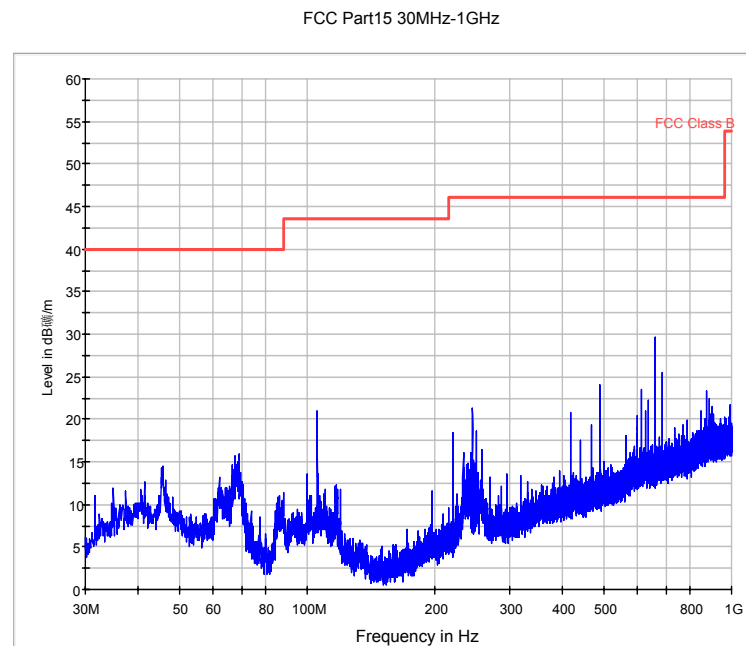


Fig.58. Radiated emission: GFSK, Channel 0, 30 MHz - 1 GHz

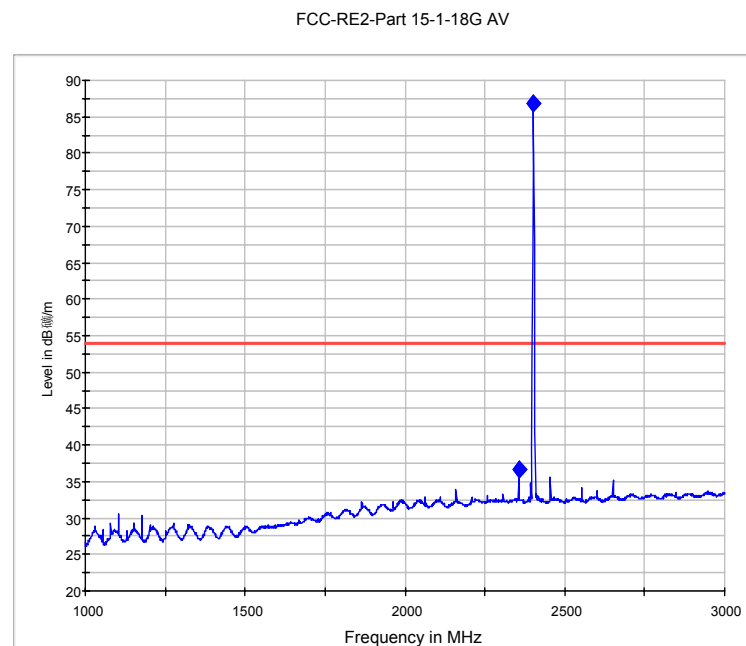


Fig.59. Radiated emission: GFSK, Channel 0, 1 GHz - 3 GHz

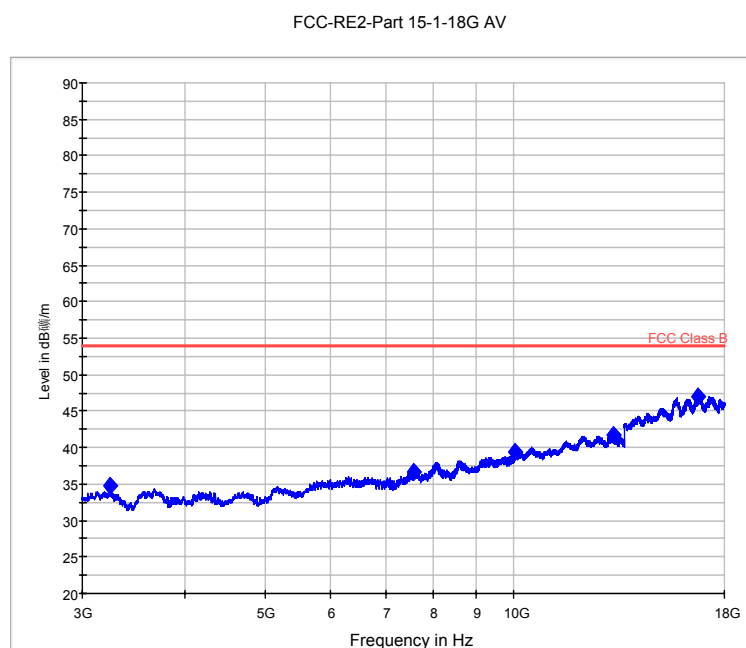


Fig.60. Radiated emission: GFSK, Channel 0, 3 GHz - 18 GHz

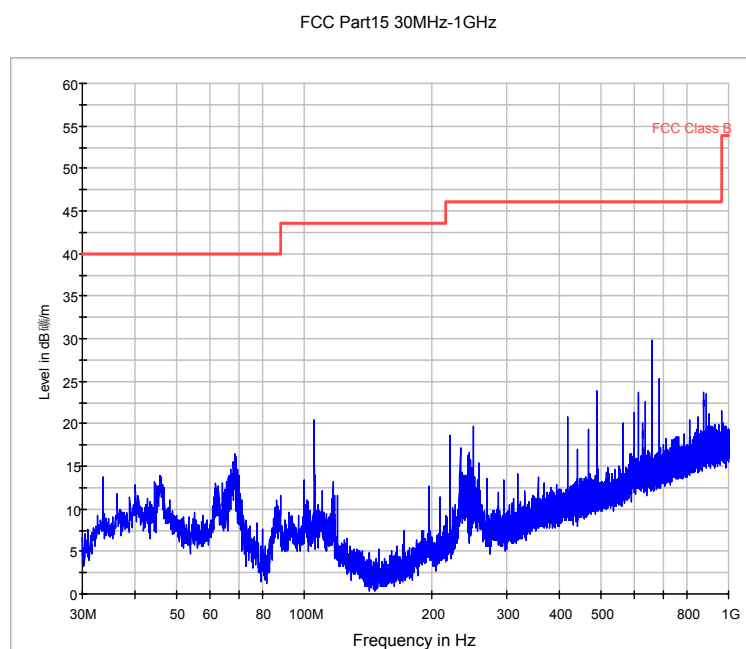


Fig.61. Radiated emission: GFSK, Channel 39, 30 MHz - 1 GHz

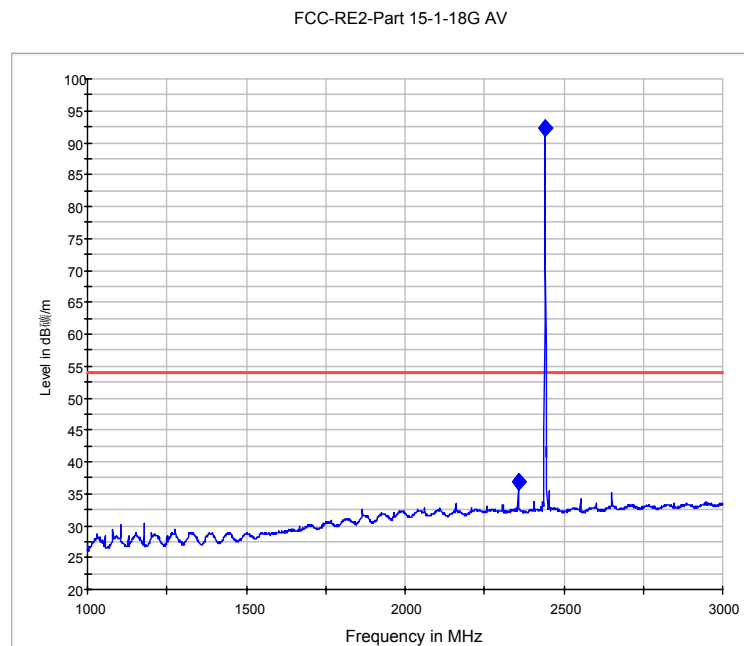


Fig.62. Radiated emission: GFSK, Channel 39, 1 GHz - 3 GHz

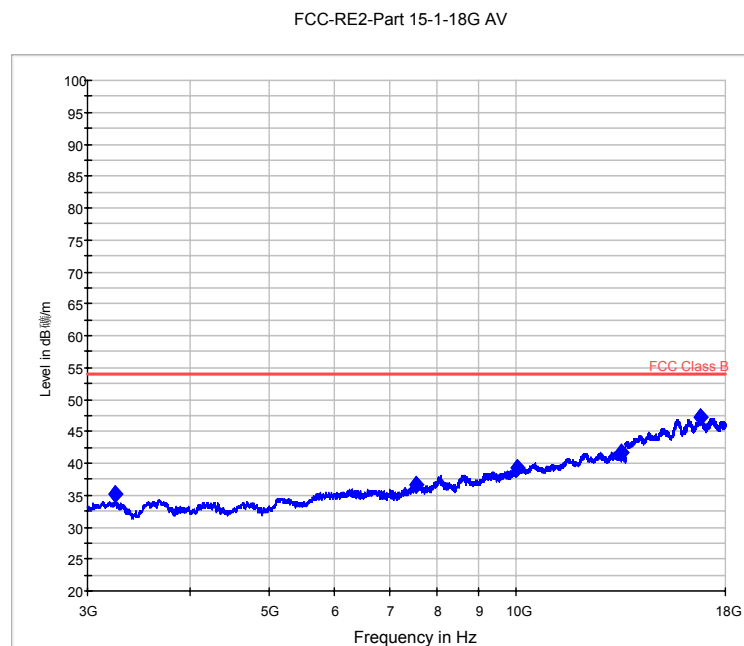


Fig.63. Radiated emission: GFSK, Channel 39, 3 GHz - 18 GHz

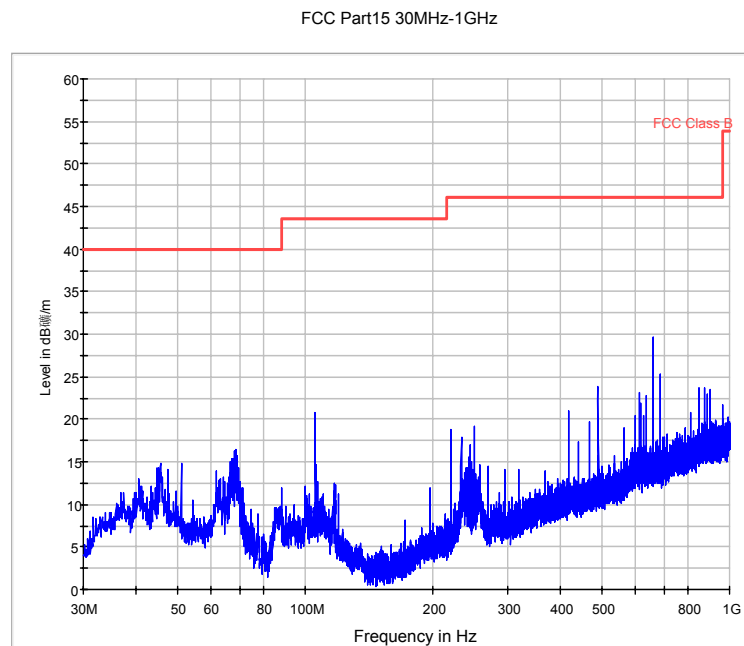


Fig.64. Radiated emission: GFSK, Channel 78, 30 MHz - 1 GHz

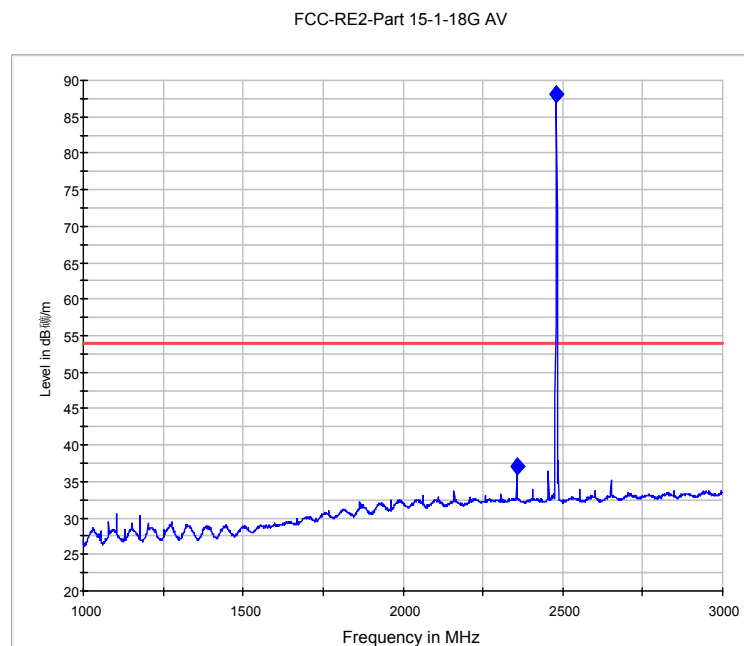


Fig.65. Radiated emission: GFSK, Channel 78, 1 GHz - 3 GHz

FCC-RE2-Part 15-1-18G AV

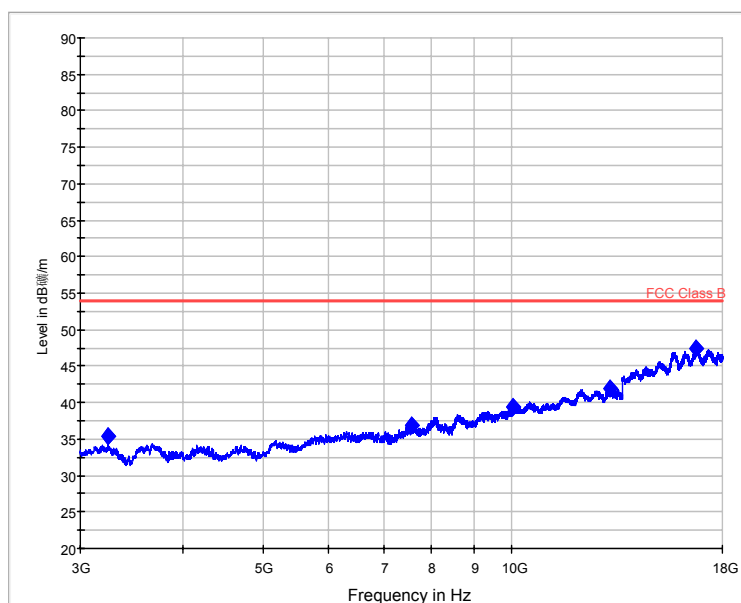


Fig.66. Radiated emission: GFSK, Channel 78, 3 GHz - 18 GHz

FCC-RE2-1-18G-PEAK+AV

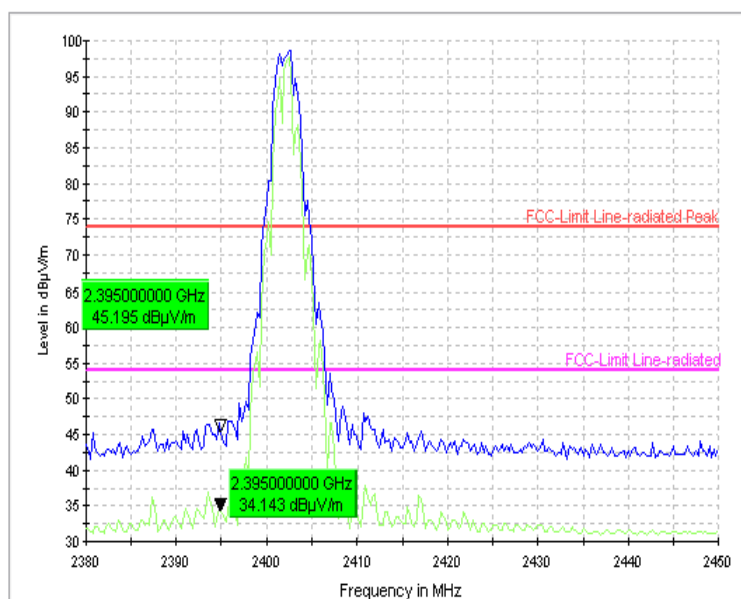


Fig.67. Radiated emission (Power): GFSK, low channel

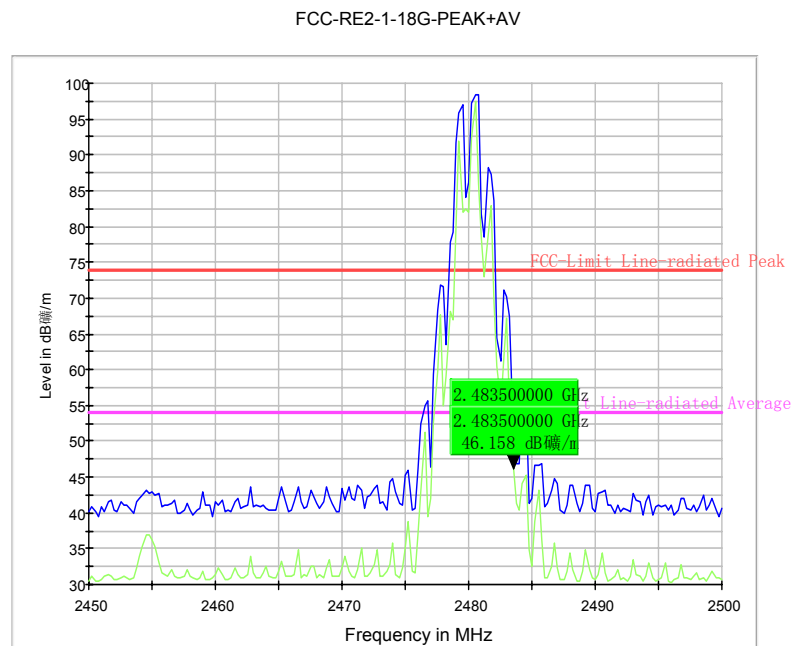


Fig.68. Radiated emission (Power) GFSK, high channel

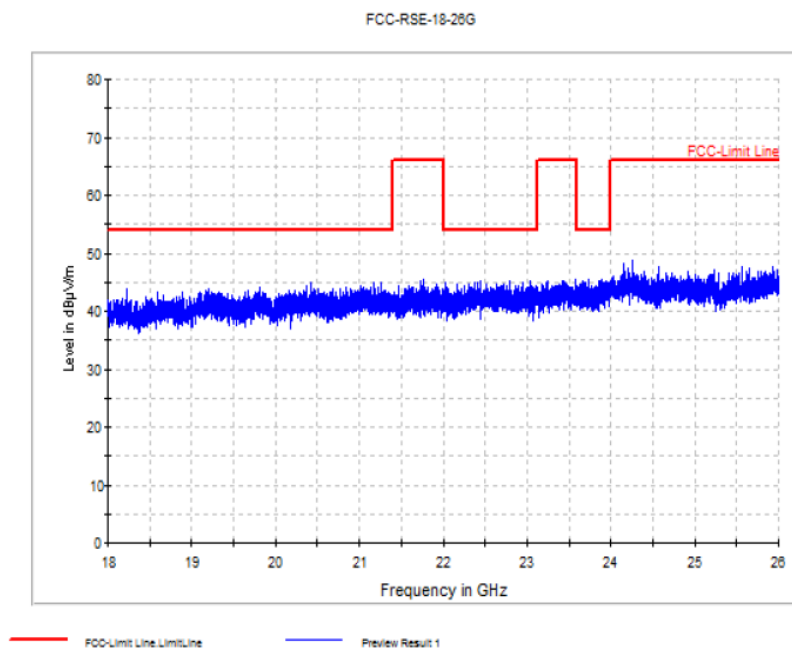


Fig.69. Radiated emission: GFSK, 18 GHz - 26 GHz

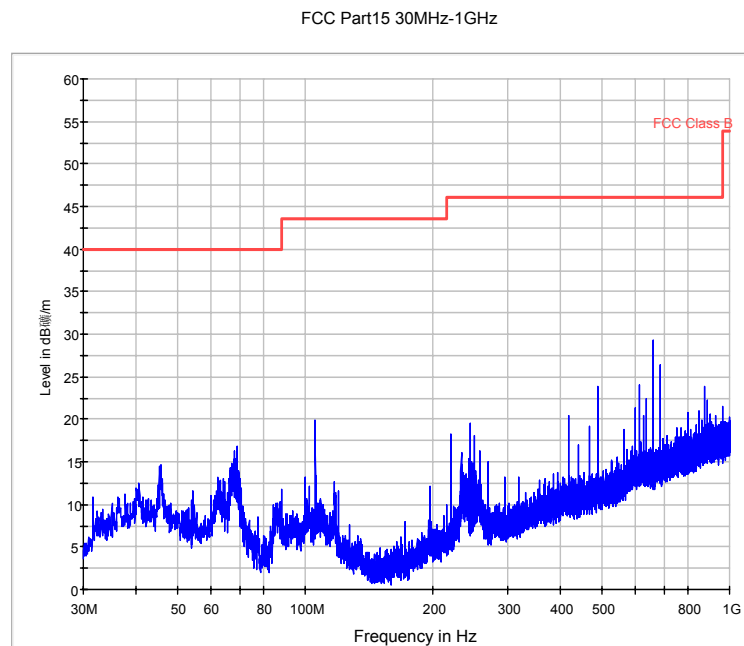


Fig.70. Radiated emission: $\pi/4$ DQPSK, Channel 0, 30 MHz - 1 GHz

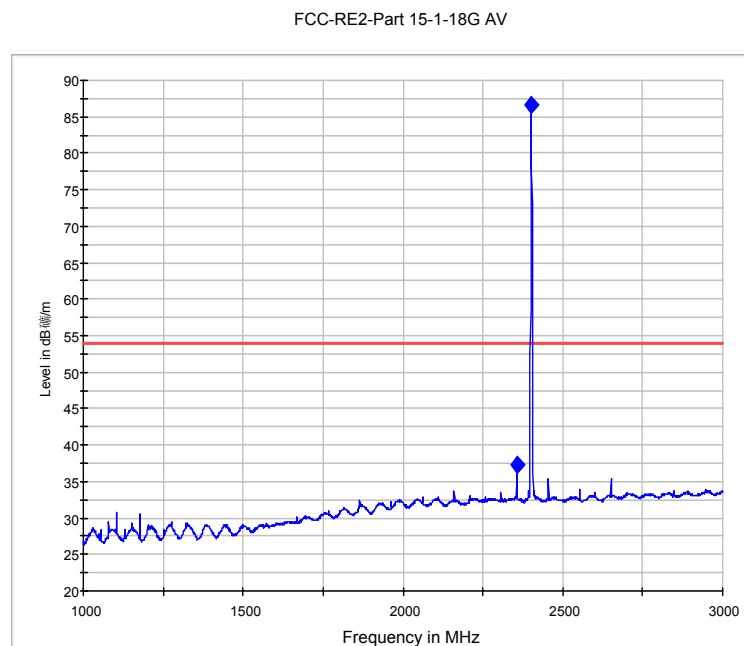


Fig.71. Radiated emission: $\pi/4$ DQPSK, Channel 0, 1 GHz - 3 GHz

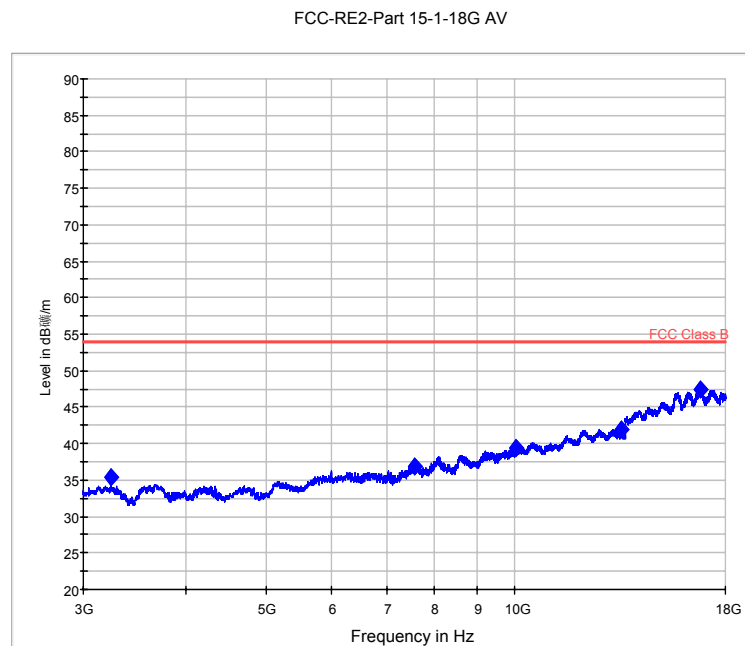


Fig.72. Radiated emission: $\pi/4$ DQPSK, Channel 0, 3 GHz - 18 GHz

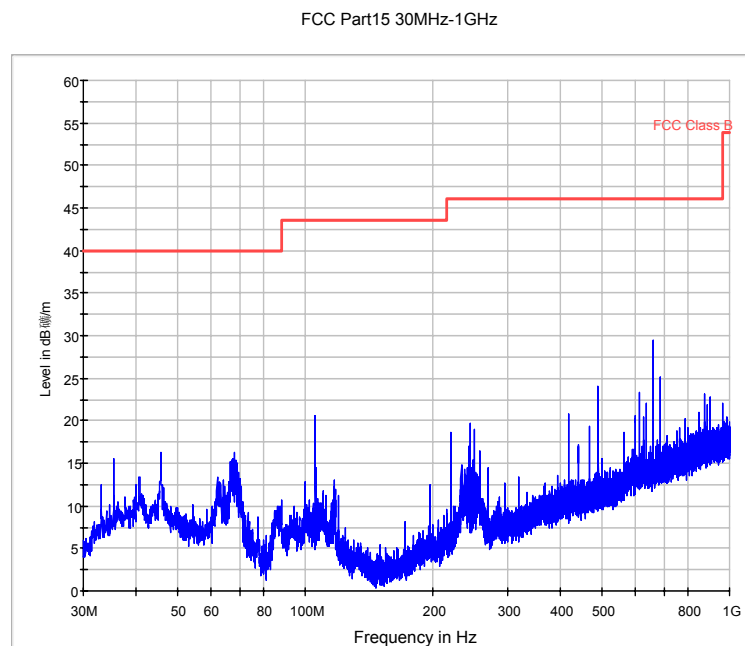


Fig.73. Radiated emission: $\pi/4$ DQPSK, Channel 39, 30 MHz - 1 GHz

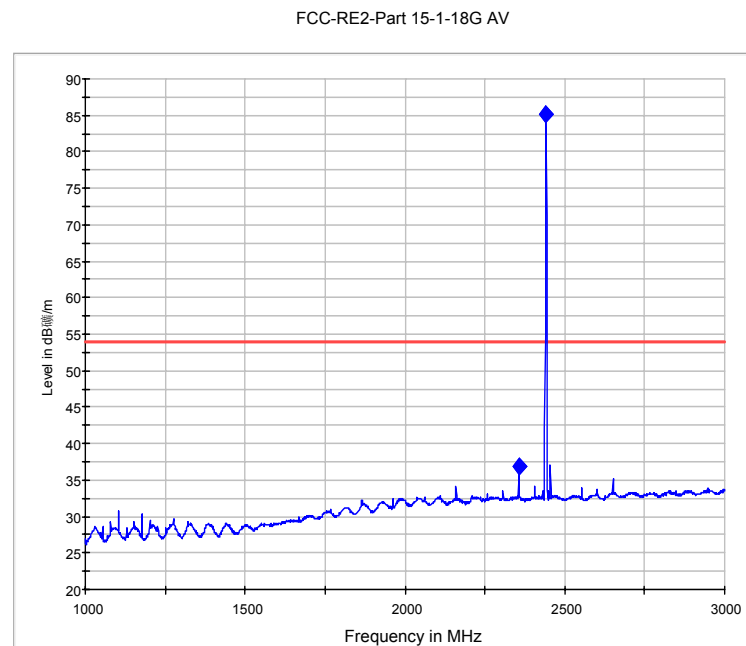


Fig.74. Radiated emission: $\pi/4$ DQPSK, Channel 39, 1 GHz - 3 GHz

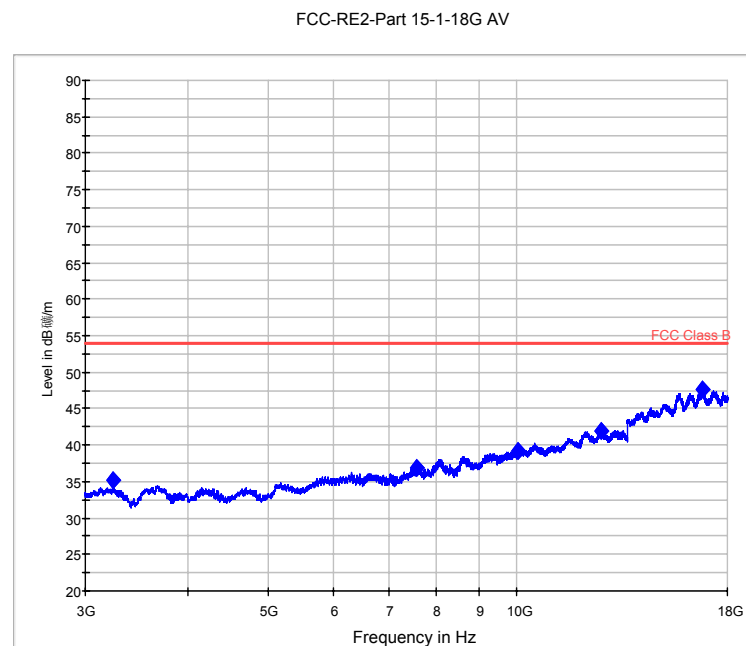


Fig.75. Radiated emission: $\pi/4$ DQPSK, Channel 39, 3 GHz - 18 GHz

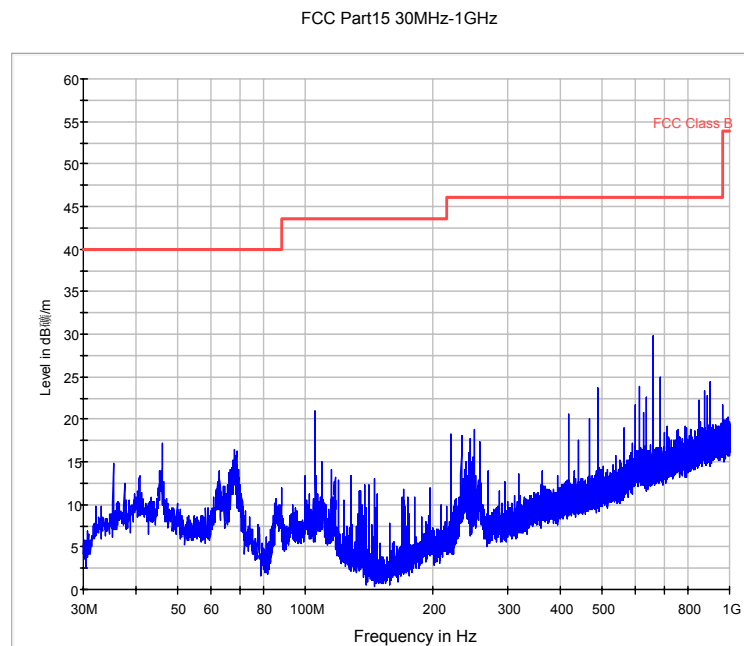


Fig.76. Radiated emission: $\pi/4$ DQPSK, Channel 78, 30 MHz - 1 GHz

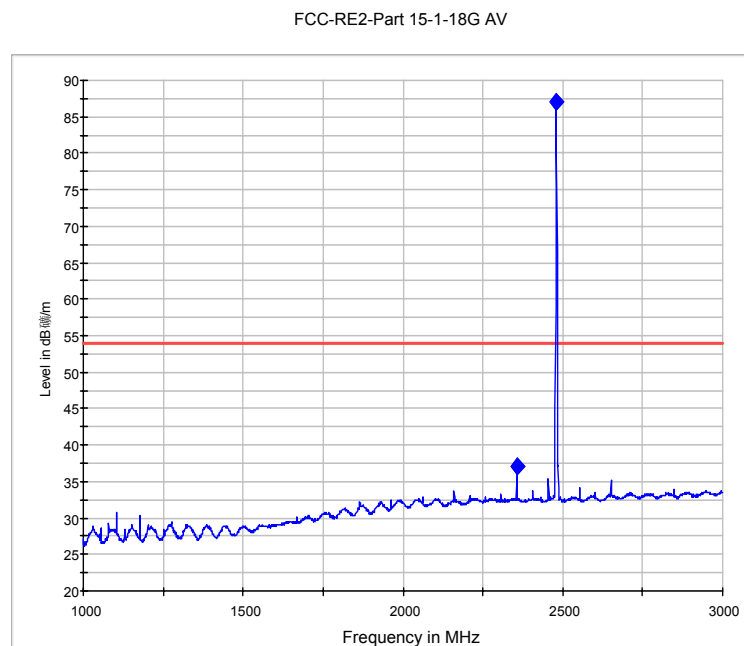


Fig.77. Radiated emission: $\pi/4$ DQPSK, Channel 78, 1 GHz - 3 GHz

FCC-RE2-Part 15-1-18G AV

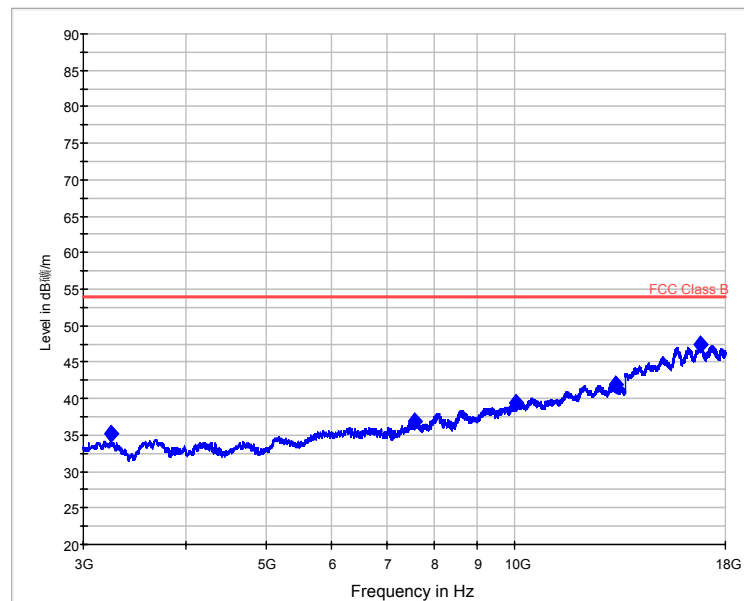


Fig.78. Radiated emission: $\pi/4$ DQPSK, Channel 78, 3 GHz - 18 GHz

FCC-RE2-1-18G-PEAK+AV

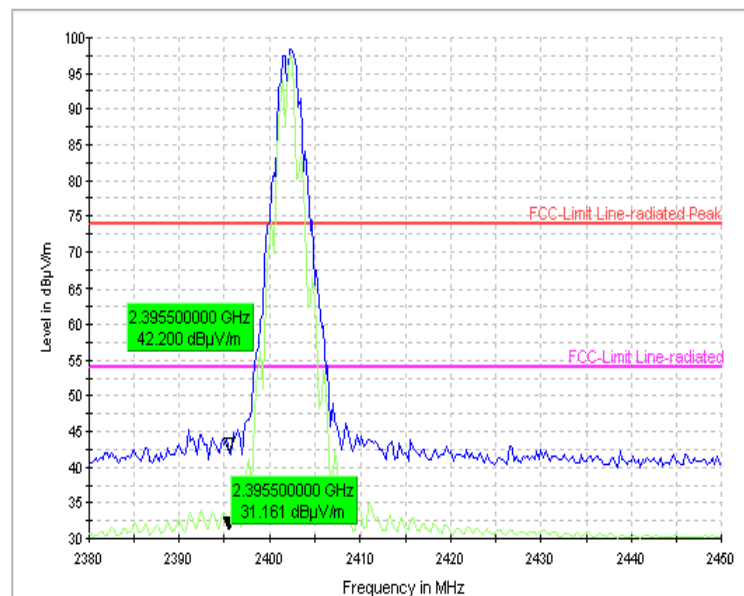


Fig.79. Radiated emission (Power): $\pi/4$ DQPSK, low channel

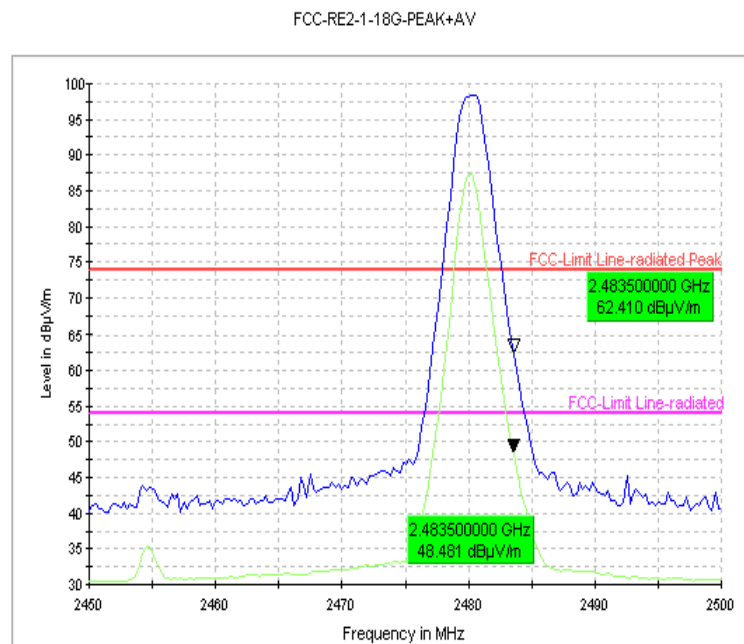


Fig.80. Radiated emission (Power): $\pi/4$ DQPSK, high channel

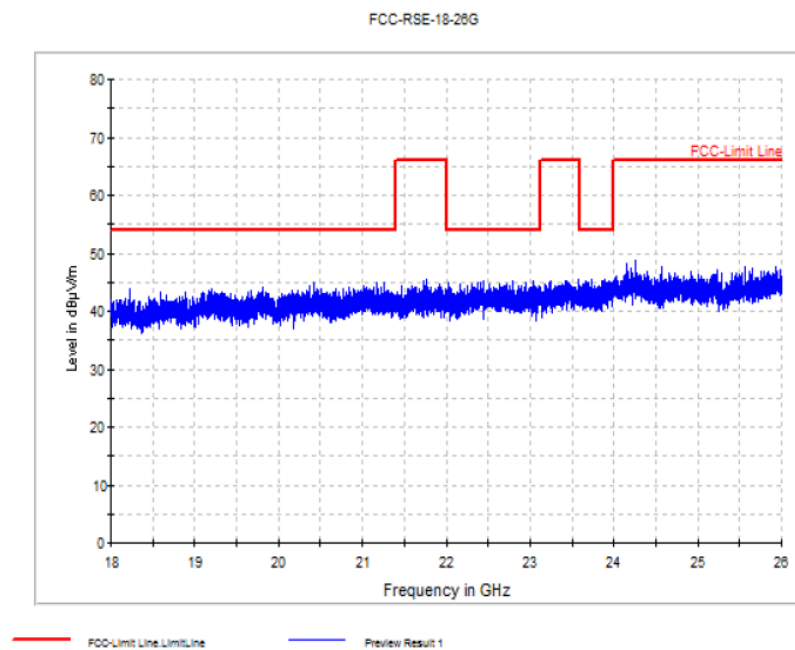


Fig.81. Radiated emission: $\pi/4$ DQPSK, 18 GHz - 26 GHz

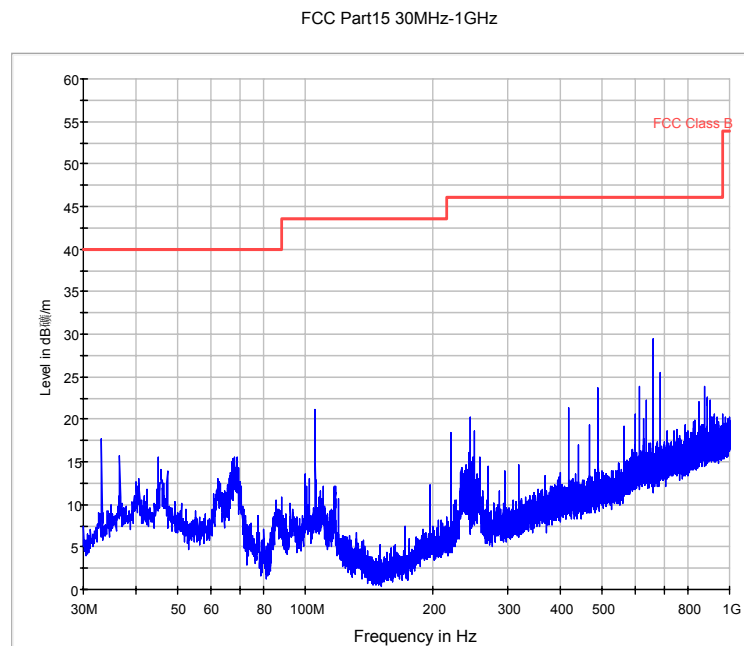


Fig.82. Radiated emission: 8DPSK, Channel 0, 30 MHz - 1 GHz

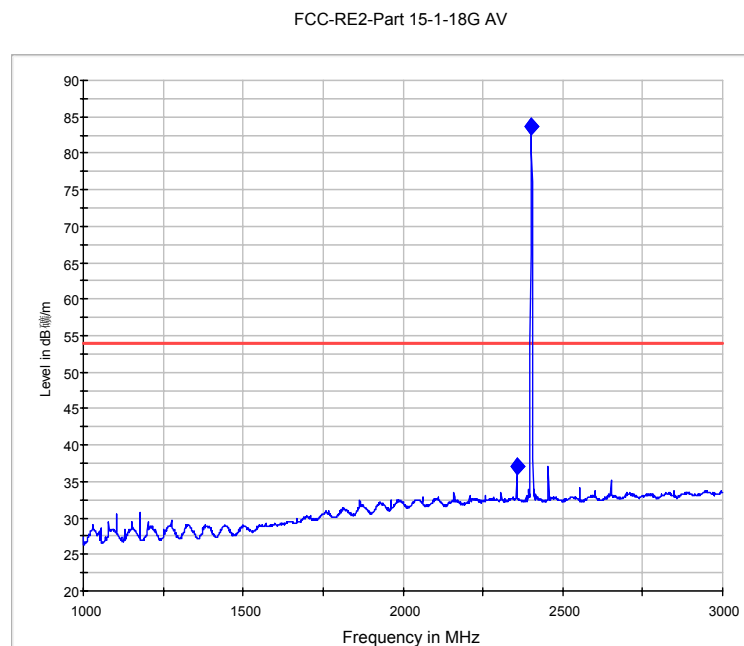


Fig.83. Radiated emission: 8DPSK, Channel 0, 1 GHz - 3 GHz

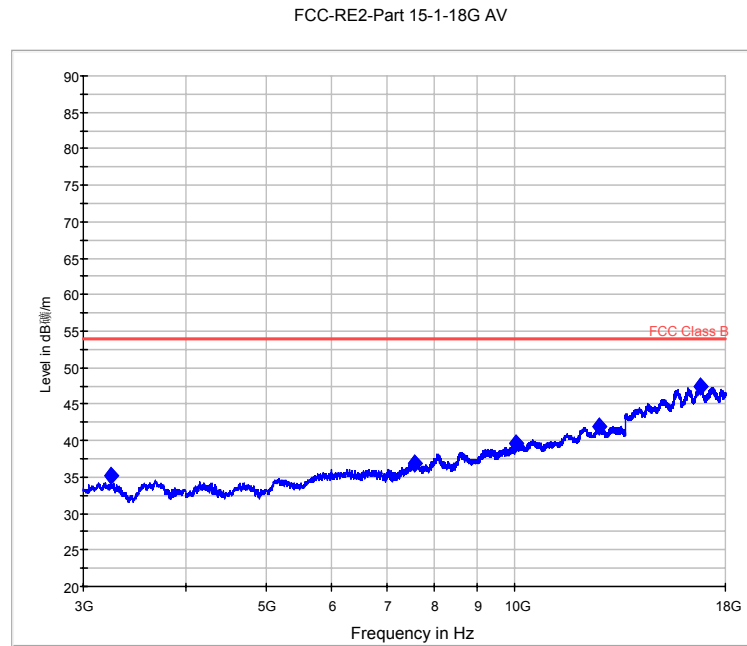


Fig.84. Radiated emission: 8DPSK, Channel 0, 3 GHz - 18 GHz

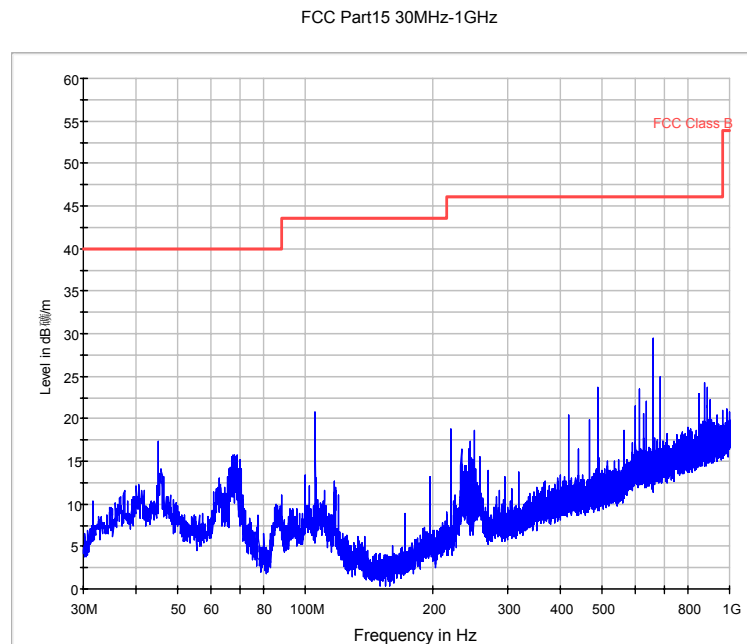


Fig.85. Radiated emission: 8DPSK, Channel 39, 30 MHz - 1 GHz

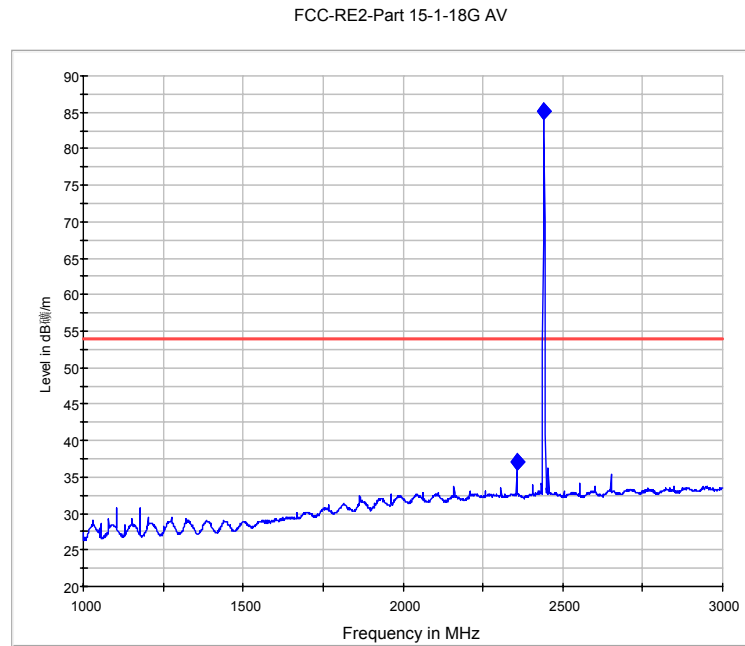


Fig.86. Radiated emission: 8DPSK, Channel 39, 1 GHz - 3 GHz

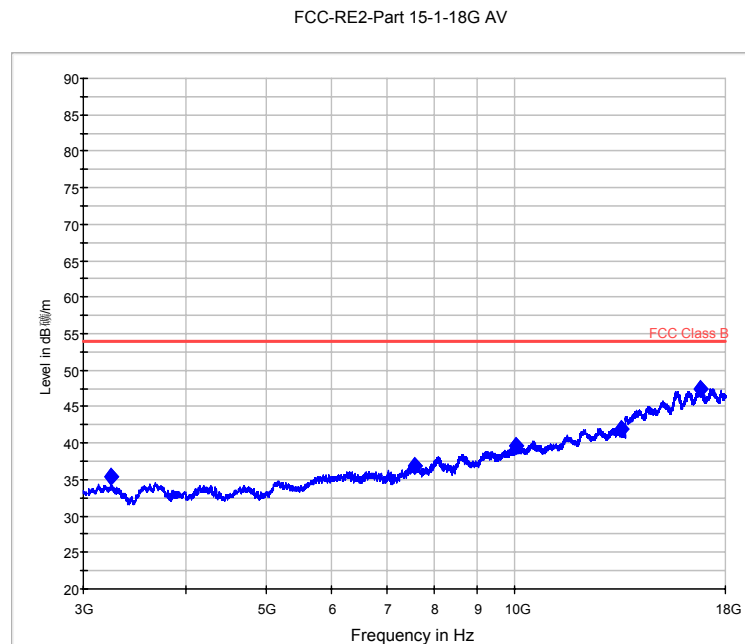


Fig.87. Radiated emission: 8DPSK, Channel 39, 3 GHz - 18 GHz

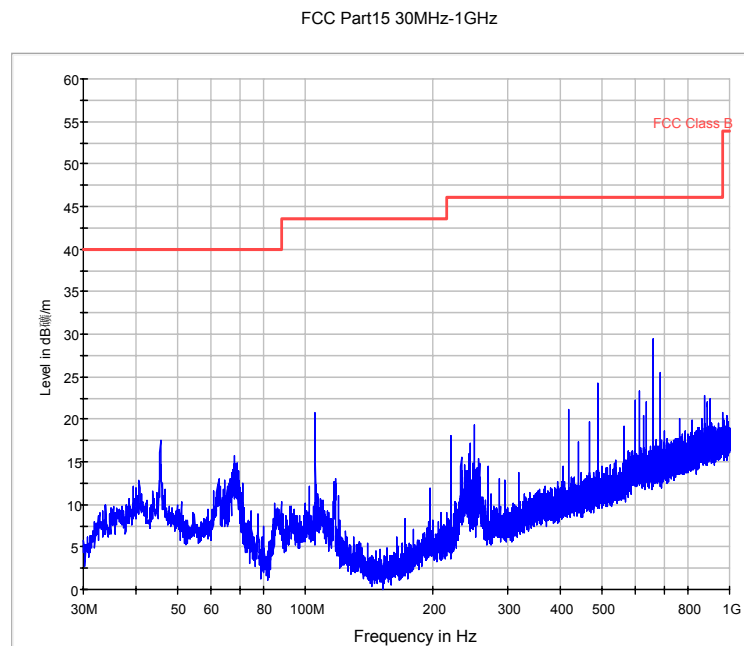


Fig.88. Radiated emission: 8DPSK, Channel 78, 30 MHz - 1 GHz

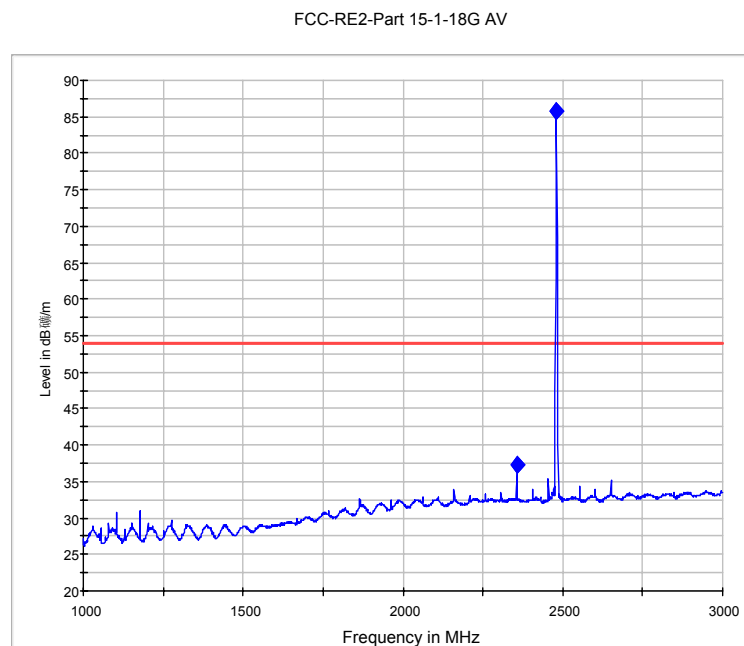


Fig.89. Radiated emission: 8DPSK, Channel 78, 1 GHz - 3 GHz

FCC-RE2-Part 15-1-18G AV

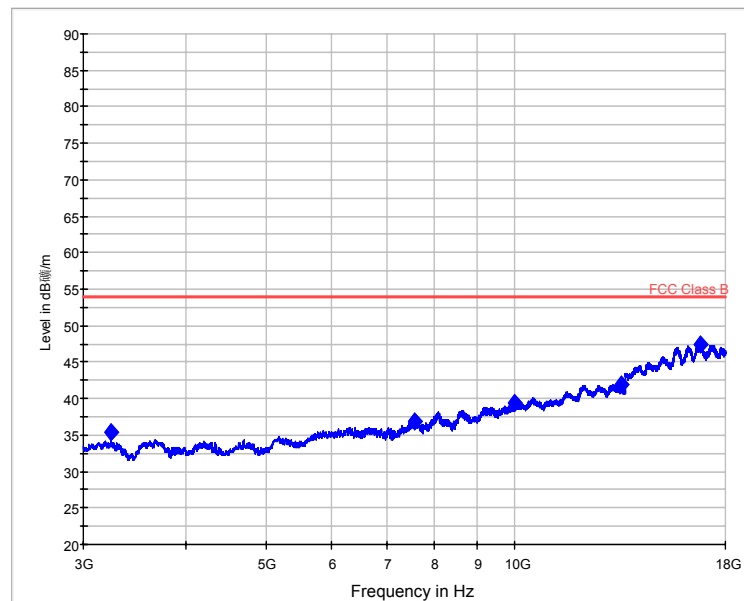


Fig.90. Radiated emission: 8DPSK, Channel 78, 3 GHz - 18 GHz

FCC-RE2-1-18G-PEAK+AV

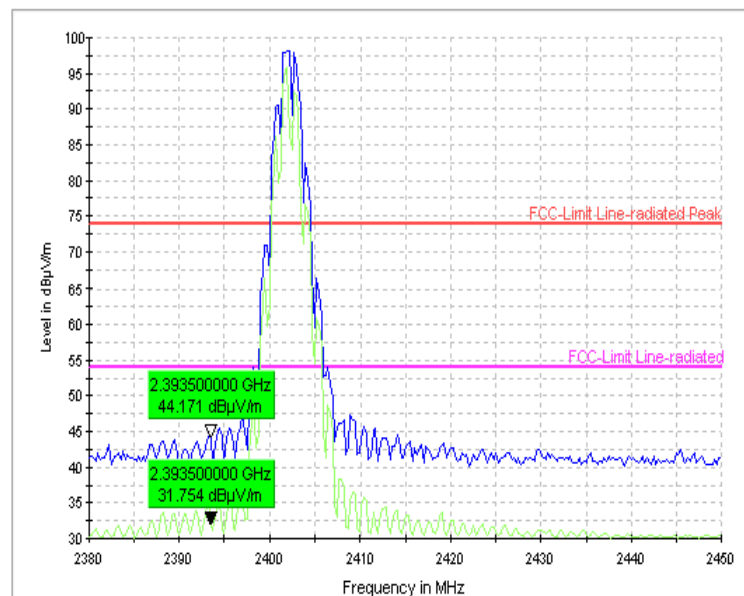


Fig.91. Radiated emission (Power): 8DPSK, low channel

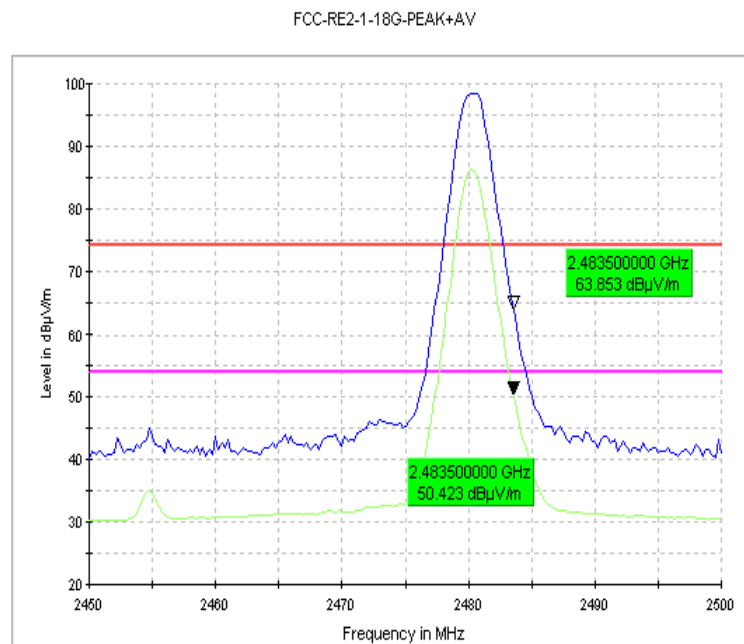


Fig.92. Radiated emission (Power): 8DPSK, high channel

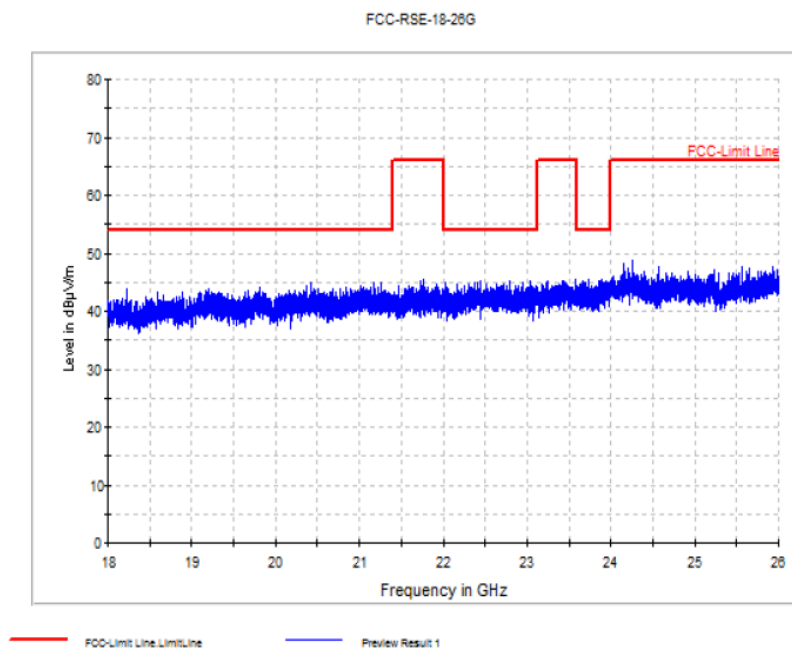


Fig.93. Radiated emission: 8DPSK, 18 GHz - 26 GHz

A.6. Time of Occupancy (Dwell Time)

Measurement Limit:

Standard	Limit (ms)
FCC 47 CFR Part 15.247(a) (1)(iii)	< 400

The measurement is made according to ANSI C63.10

Measurement Result:

For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.94	107.39	P
		Fig.95		
	DH3	Fig.96	190.17	P
		Fig.97		
	DH5	Fig.98	199.97	P
		Fig.99		

For $\pi/4$ DQPSK

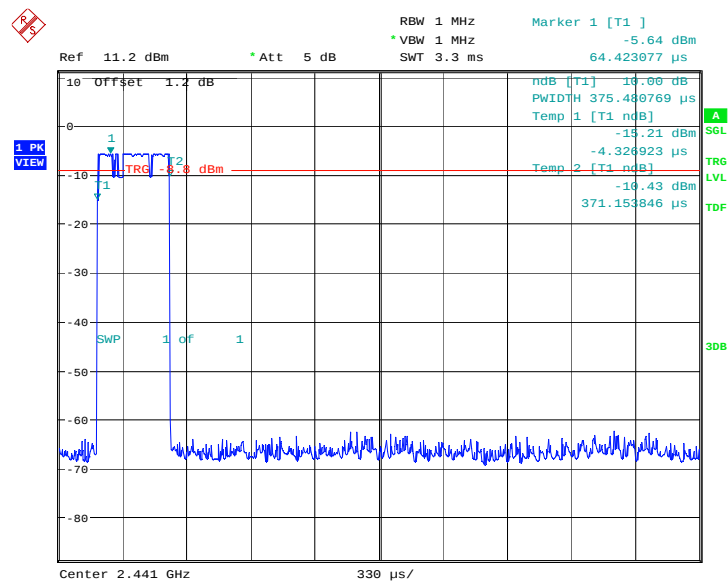
Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.100	104.33	P
		Fig.101		
	DH3	Fig.102	170.50	P
		Fig.103		
	DH5	Fig.104	211.95	P
		Fig.105		

For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.106	106.62	P
		Fig.107		
	DH3	Fig.108	177.63	P
		Fig.109		
	DH5	Fig.110	177.11	P
		Fig.111		

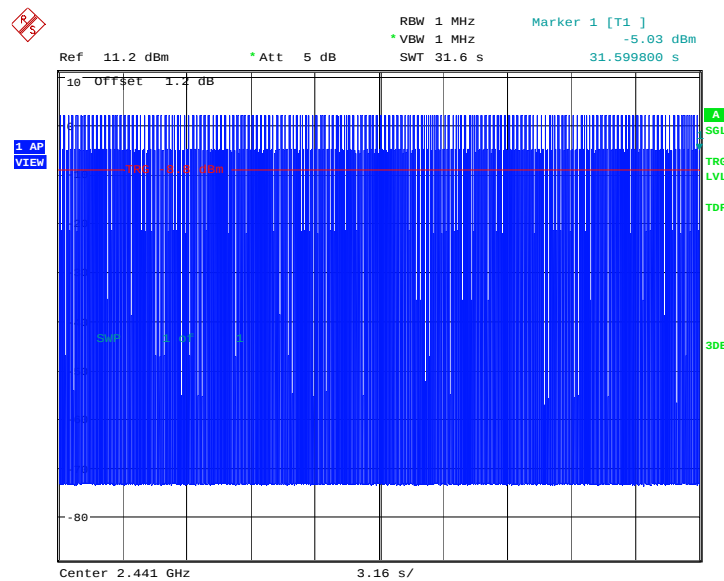
Conclusion: PASS

Test graphs as below:



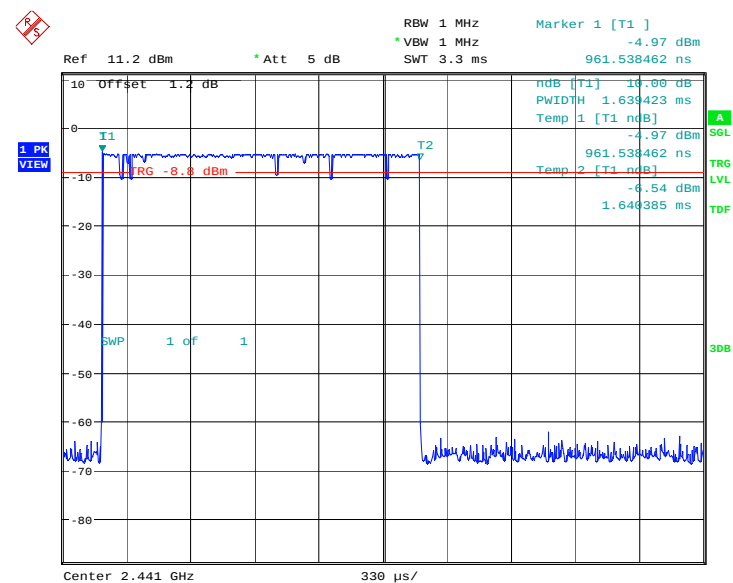
Date: 30.OCT.2013 20:42:12

Fig.94. Time of occupancy (Dwell Time): Channel 39, Packet DH1



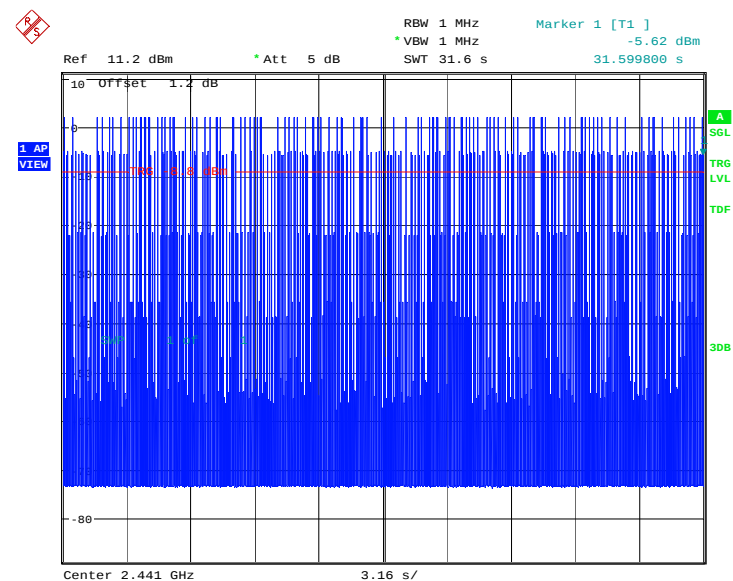
Date: 30.OCT.2013 20:42:01

Fig.95. Number of Transmissions Measurement:Channel 39,Packet DH1



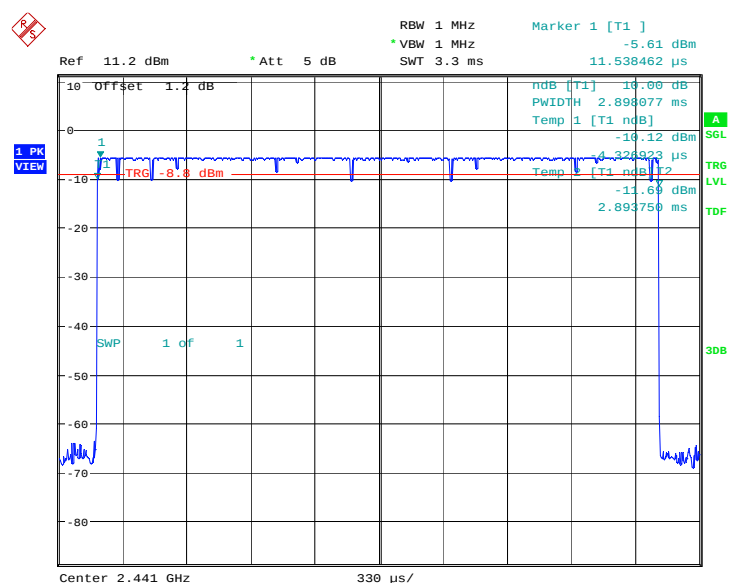
Date: 30.OCT.2013 20:43:31

Fig.96. Time of occupancy (Dwell Time): Channel 39, Packet DH3



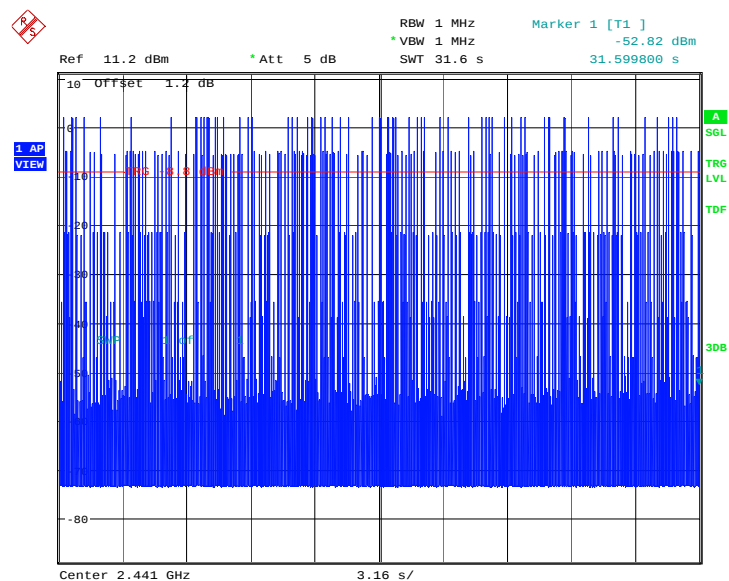
Date: 30.OCT.2013 20:43:20

Fig.97. Number of Transmissions Measurement:Channel 39,Packet DH3



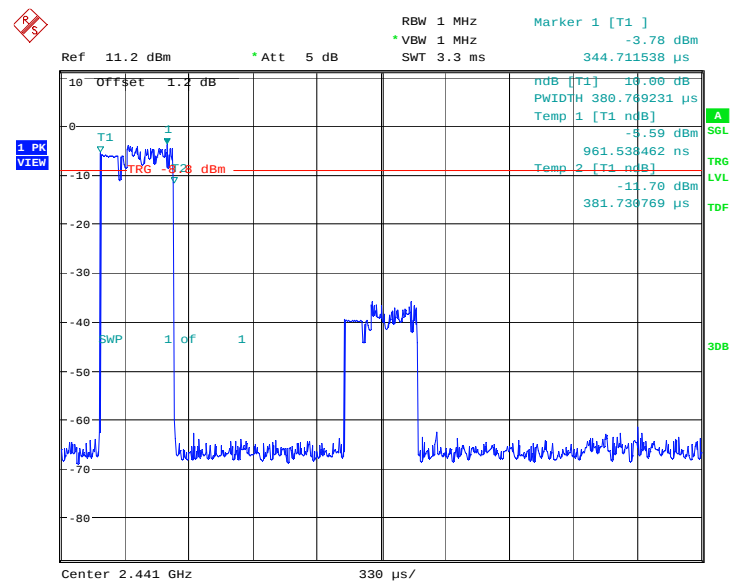
Date: 30.OCT.2013 20:44:49

Fig.98. Time of occupancy (Dwell Time): Channel 39, Packet DH5



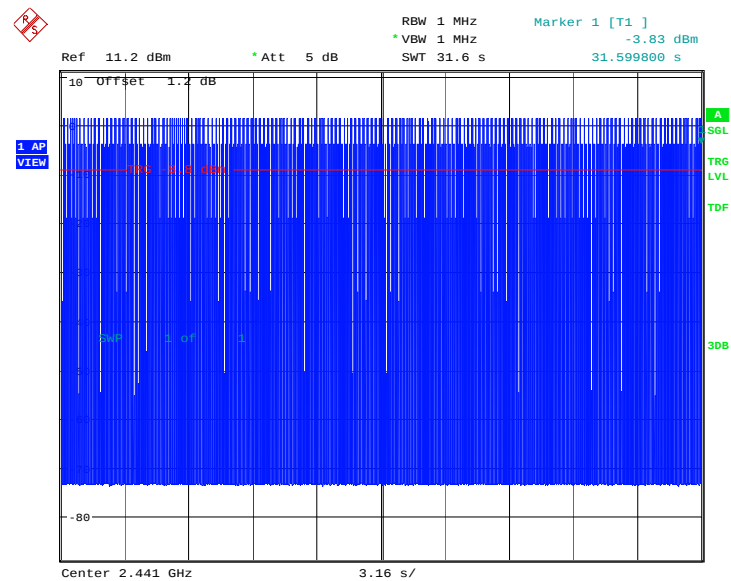
Date: 30.OCT.2013 20:44:37

Fig.99. Number of Transmissions Measurement:Channel 39,Packet DH5



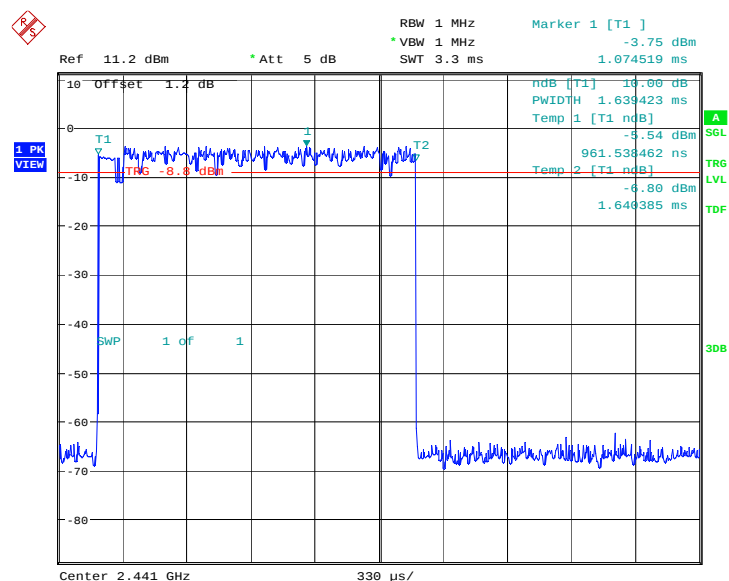
Date: 30.OCT.2013 21:03:33

Fig.100. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1



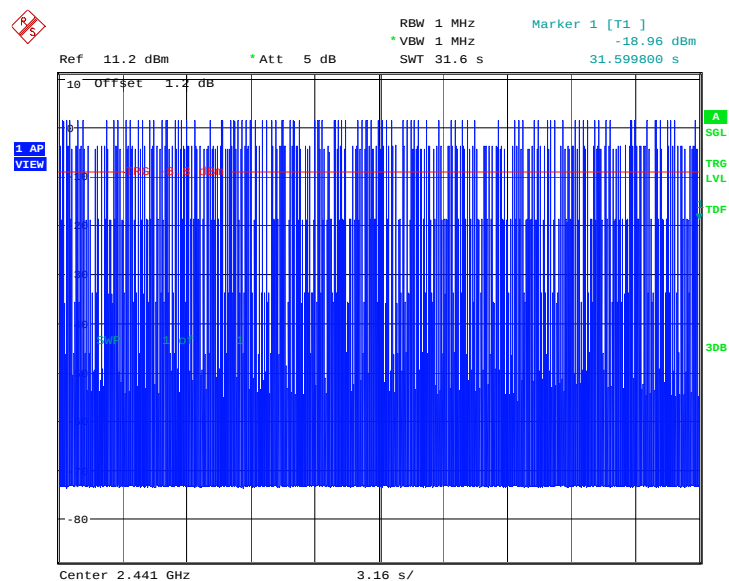
Date: 30.OCT.2013 21:03:21

Fig.101. Number of Transmissions Measurement:Channel 39,Packet 2-DH1



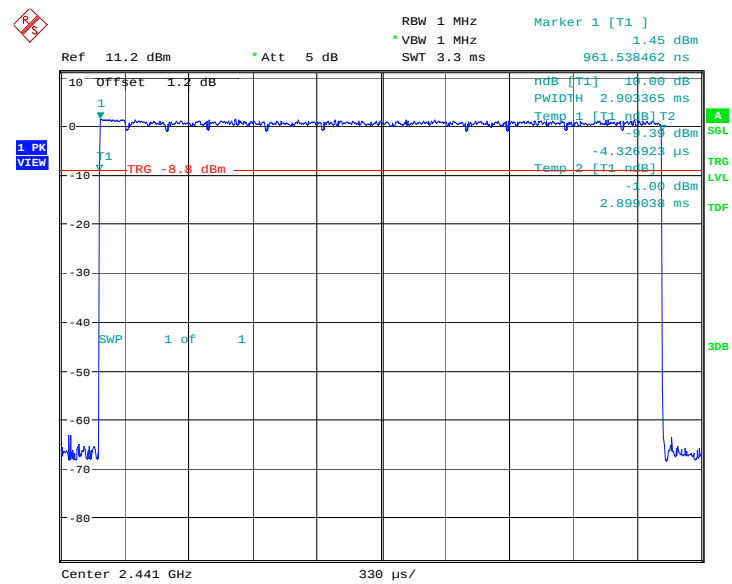
Date: 30.OCT.2013 21:04:53

Fig.102. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3



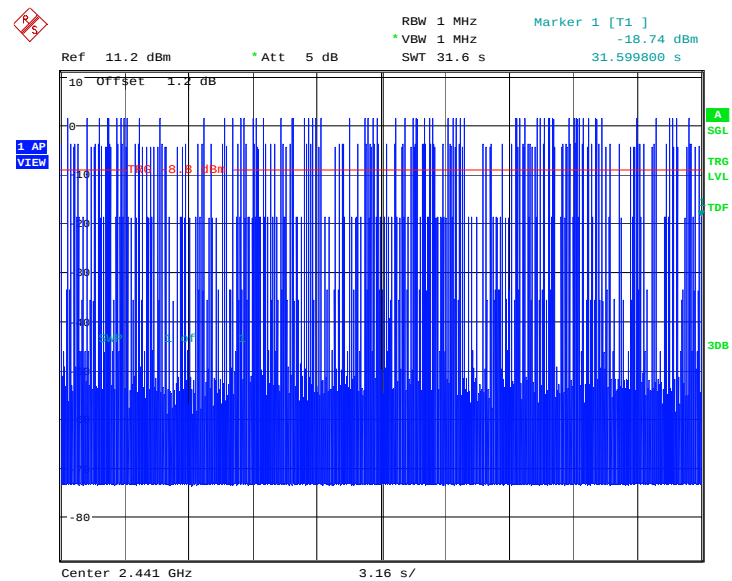
Date: 30.OCT.2013 21:04:41

Fig.103. Number of Transmissions Measurement:Channel 39,Packet 2-DH3



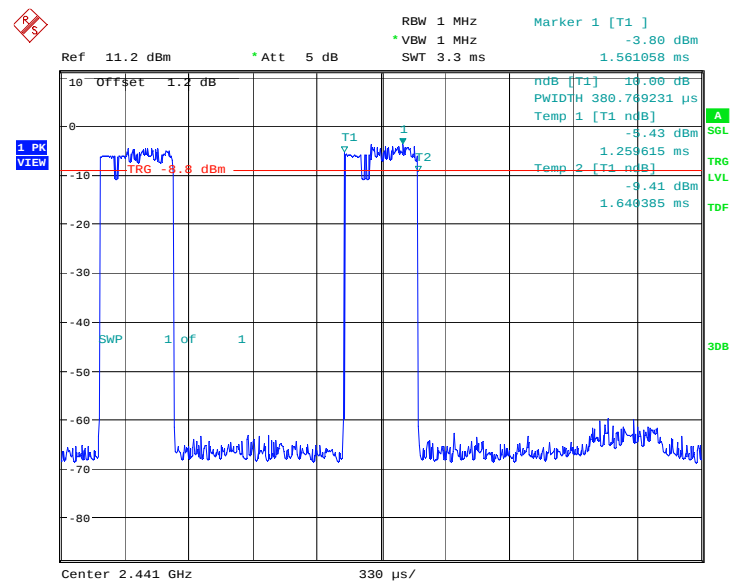
Date: 30.OCT.2013 21:06:10

Fig.104. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH5



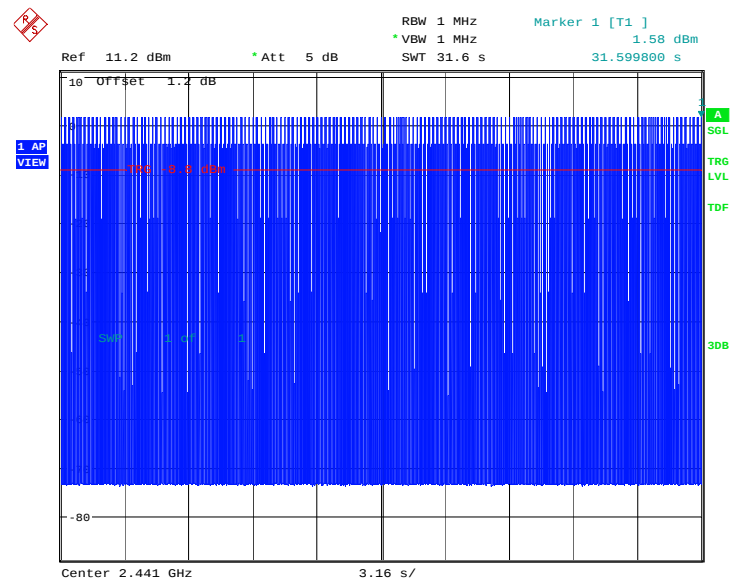
Date: 30.OCT.2013 21:05:59

Fig.105. Number of Transmissions Measurement:Channel 39,Packet 2-DH5



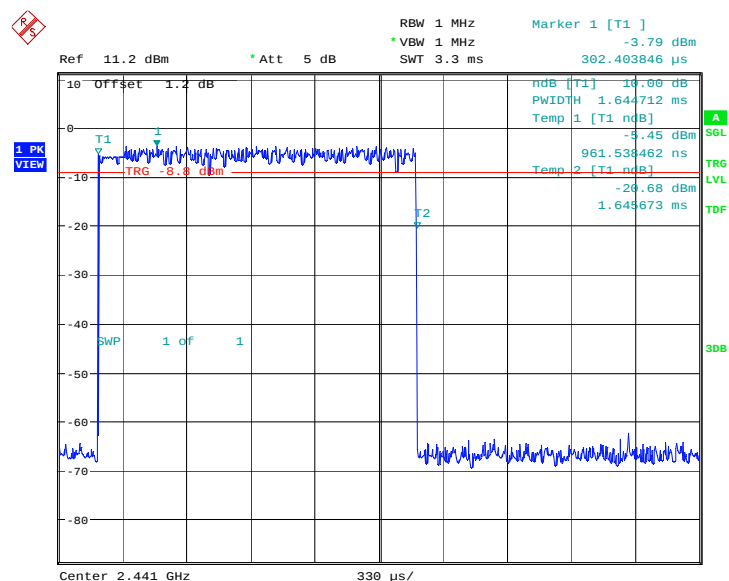
Date: 30.OCT.2013 21:25:03

Fig.106. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH1



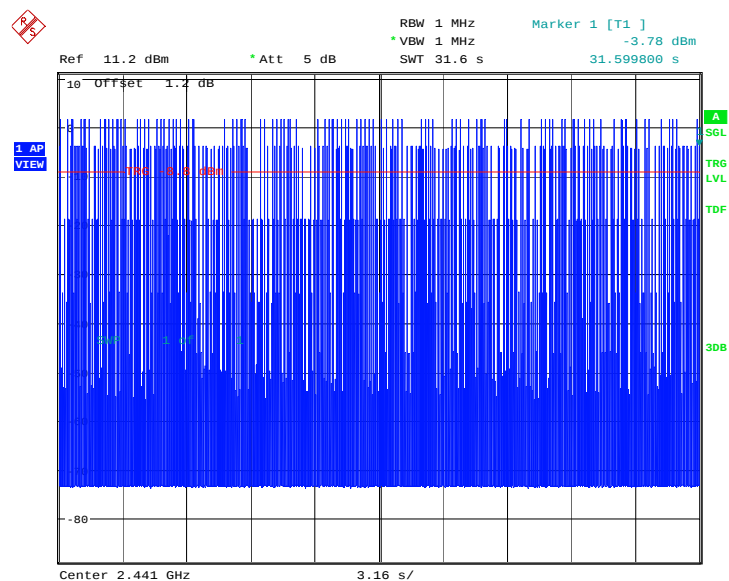
Date: 30.OCT.2013 21:24:51

Fig.107. Number of Transmissions Measurement:Channel 39,Packet 3-DH1



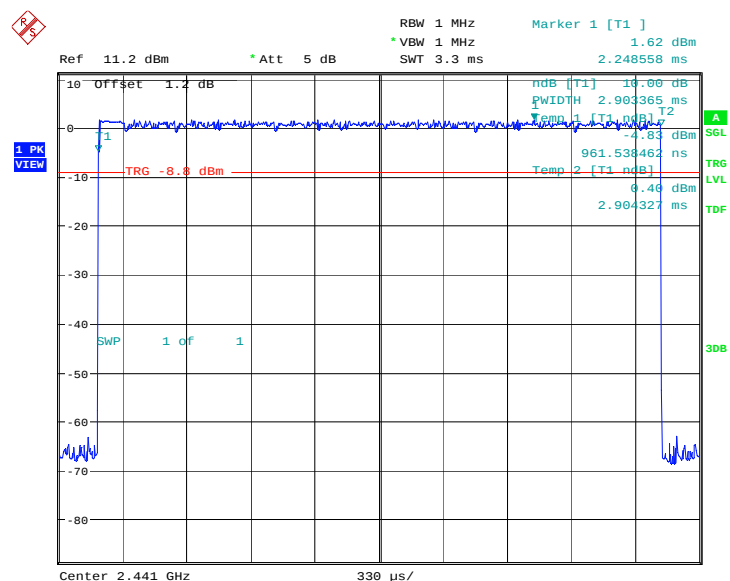
Date: 30.OCT.2013 21:26:23

Fig.108. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3



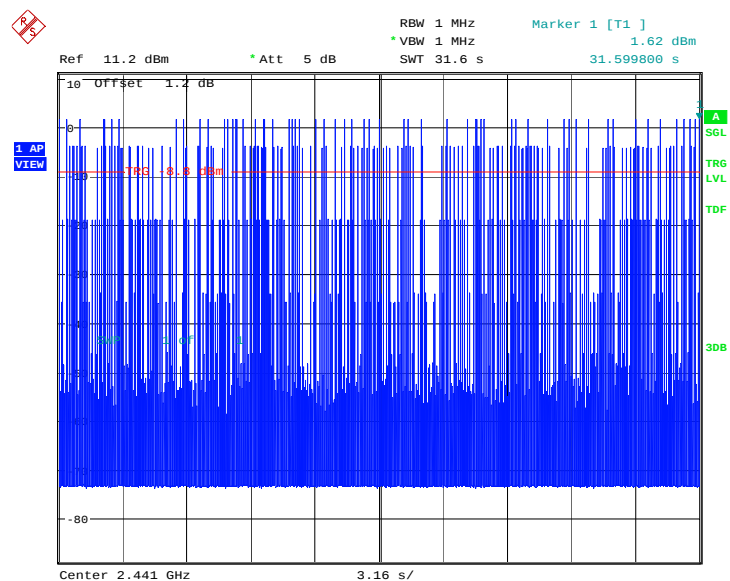
Date: 30.OCT.2013 21:26:11

Fig.109. Number of Transmissions Measurement:Channel 39,Packet 3-DH3



Date: 30.OCT.2013 21:27:41

Fig.110. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH5



Date: 30.OCT.2013 21:27:29

Fig.111. Number of Transmissions Measurement:Channel 39,Packet 3-DH5

A.7. 20dB Bandwidth

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1)	NA *

The measurement is made according to ANSI C63.10

* Comment: This test case is not required according to the latest FCC 47 CFR Part 15.247. But the test results are necessary for “carrier frequency separation” test case, in Annex A.8.

Measurement Results:

For GFSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.112	870.19	NA
39	Fig.113	870.19	NA
78	Fig.114	870.19	NA

For $\pi/4$ DQPSK

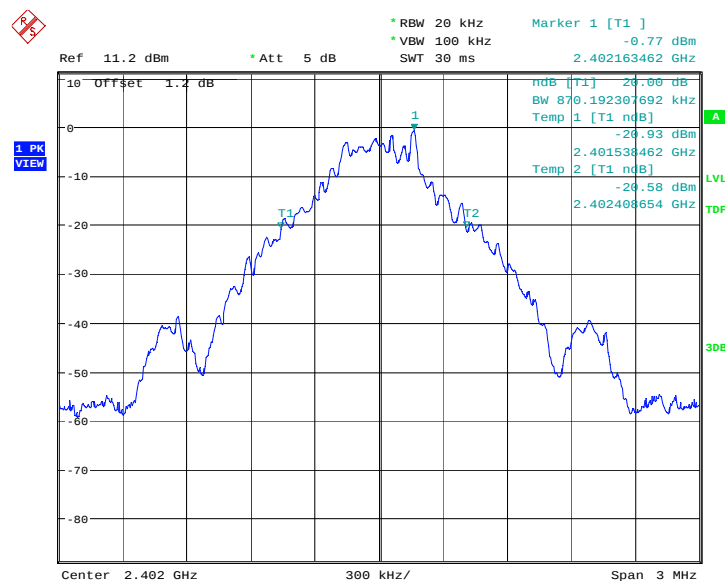
Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.115	1274.04	NA
39	Fig.116	1259.62	NA
78	Fig.117	1274.04	NA

For 8DPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.118	1269.23	NA
39	Fig.119	1259.62	NA
78	Fig.120	1274.04	NA

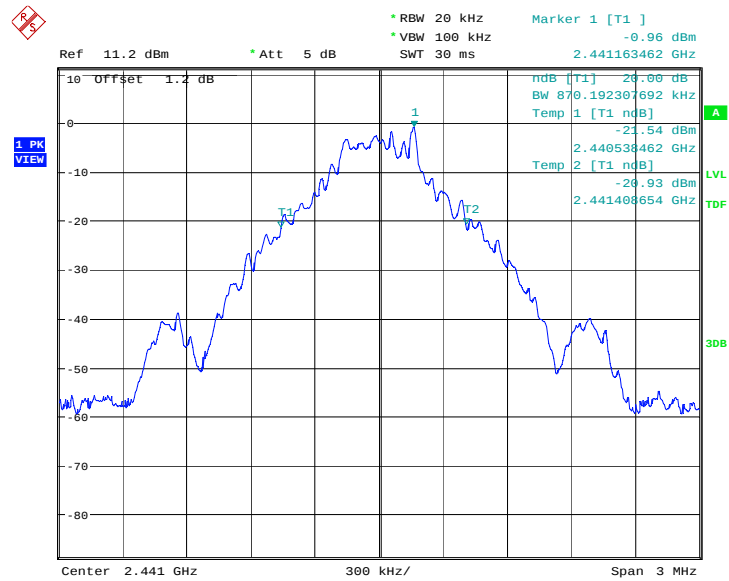
Conclusion: NA

Test graphs as below:



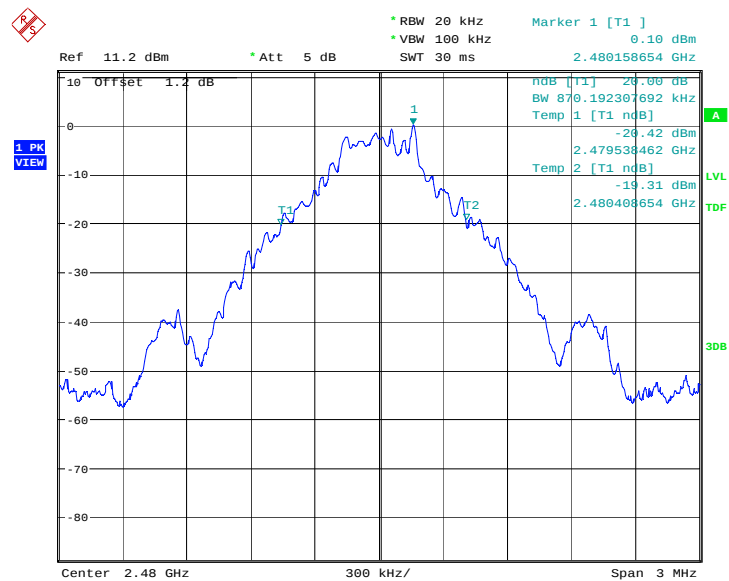
Date: 30.OCT.2013 20:45:23

Fig.112. 20dB Bandwidth: GFSK, Channel 0



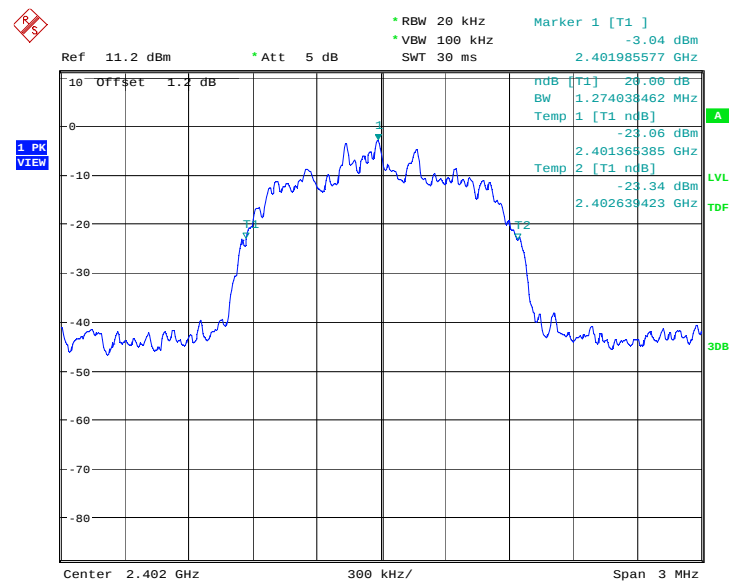
Date: 30.OCT.2013 20:45:55

Fig.113. 20dB Bandwidth: GFSK, Channel 39



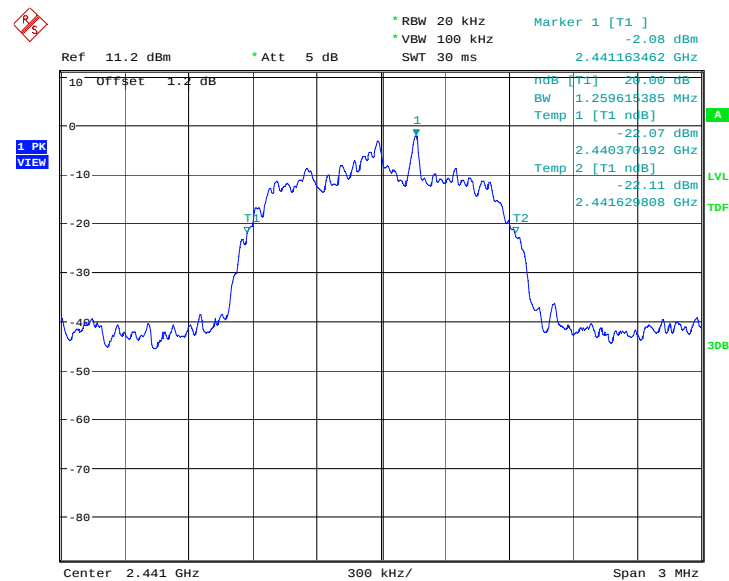
Date: 30.OCT.2013 20:46:27

Fig.114. 20dB Bandwidth: GFSK, Channel 78



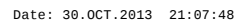
Date: 30.OCT.2013 21:06:44

Fig.115. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 0



Date: 30.OCT.2013 21:07:16

Fig.116. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 39



1 PK View

Ref 11.2 dBm Att 5 dB RBW 20 kHz VBW 100 kHz SWT 30 ms

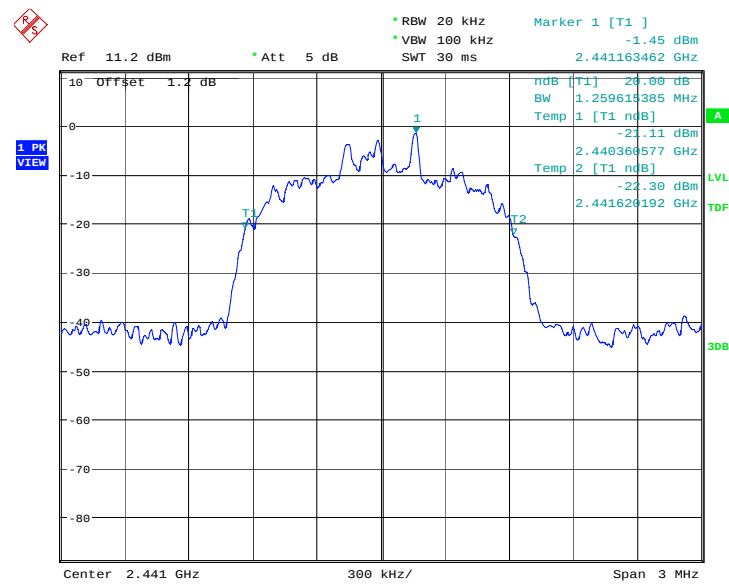
Marker 1 [T1] -2.59 dBm 2.402163462 GHz

dBm [T1] -24.00 dB BW 1.269239769 MHz Temp 1 [T1 dB] -22.06 dBm 2.401358769 GHz Temp 2 [T1 dB] -22.68 dBm 2.402625000 GHz

Center 2.402 GHz 300 kHz/ Span 3 MHz

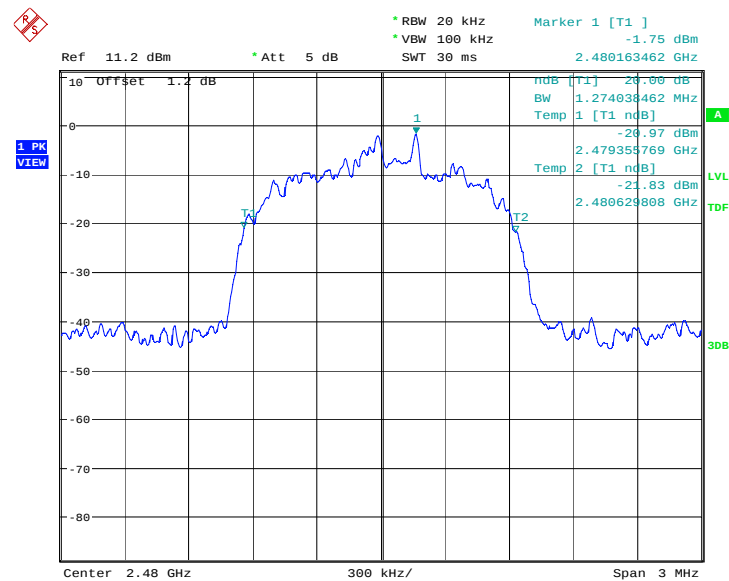
Date: 30.OCT.2013 21:28:15

Fig.118. 20dB Bandwidth: 8DPSK, Channel 0



Date: 30.OCT.2013 21:28:47

Fig.119. 20dB Bandwidth: 8DPSK, Channel 39



Date: 30.OCT.2013 21:29:18

Fig.120. 20dB Bandwidth: 8DPSK, Channel 78

A.8. Carrier Frequency Separation

Measurement Limit:

Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1)	over 25 kHz or $(2/3) * 20\text{dB bandwidth}$

The measurement is made according to ANSI C63.10

* Comment: This limit should be over 25 kHz or $(2/3) * 20\text{dB bandwidth}$, whichever is greater.

Measurement Result:

For GFSK

Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.121	P

For $\pi/4$ DQPSK

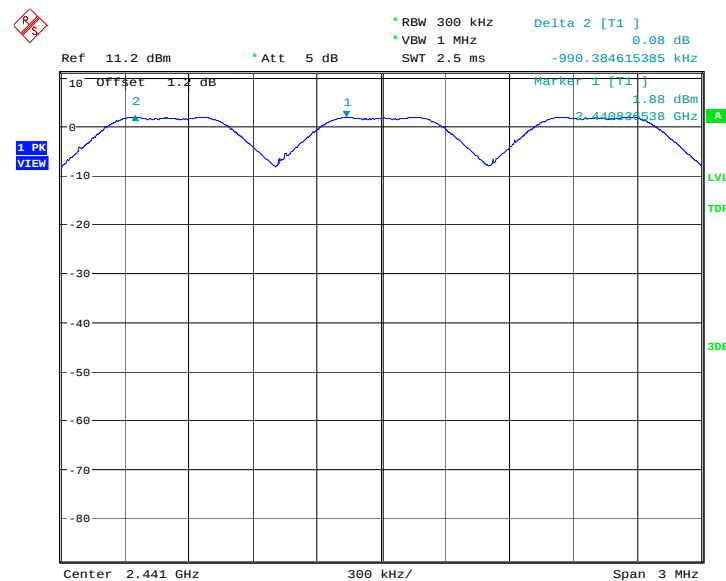
Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.122	P

For 8DPSK

Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.123	P

Conclusion: PASS

Test graphs as below:



Date: 30.OCT.2013 20:48:31

Fig.121. Carrier frequency separation measurement: GFSK, Channel 39

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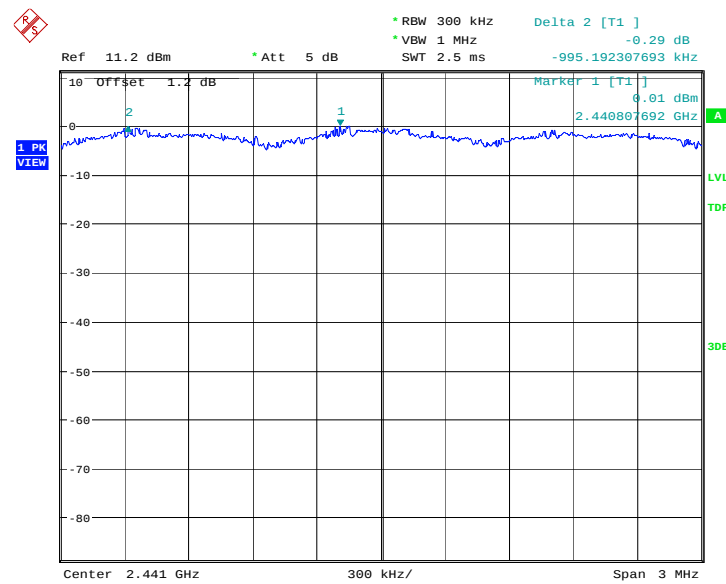


Fig.122. Carrier frequency separation measurement: $\pi/4$ DQPSK, Channel 39

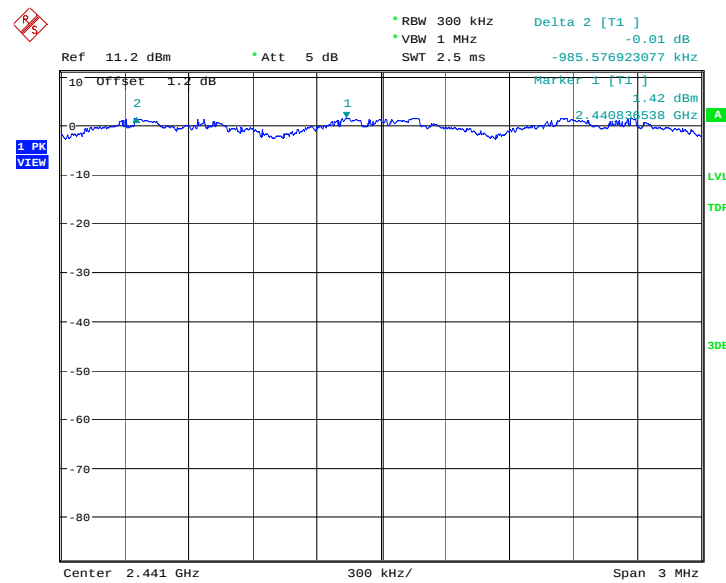


Fig.123. Carrier frequency separation measurement: 8DPSK, Channel 39

A.9. Number of Hopping Channels

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii)	At least 15 non-overlapping channels

The measurement is made according to ANSI C63.10

Measurement Result:

For GFSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.124	P
40~78	Fig.125	

For $\pi/4$ DQPSK

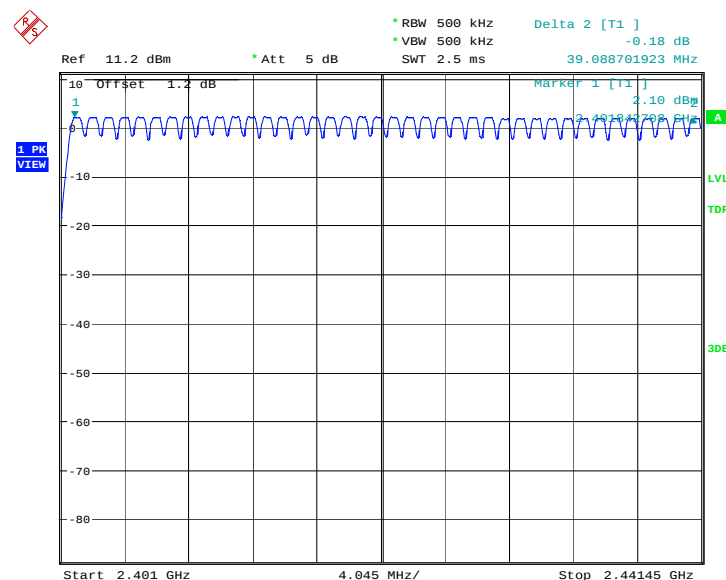
Channel	Number of hopping channels	Conclusion
0~39	Fig.126	P
40~78	Fig.127	

For 8DPSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.128	P
40~78	Fig.129	

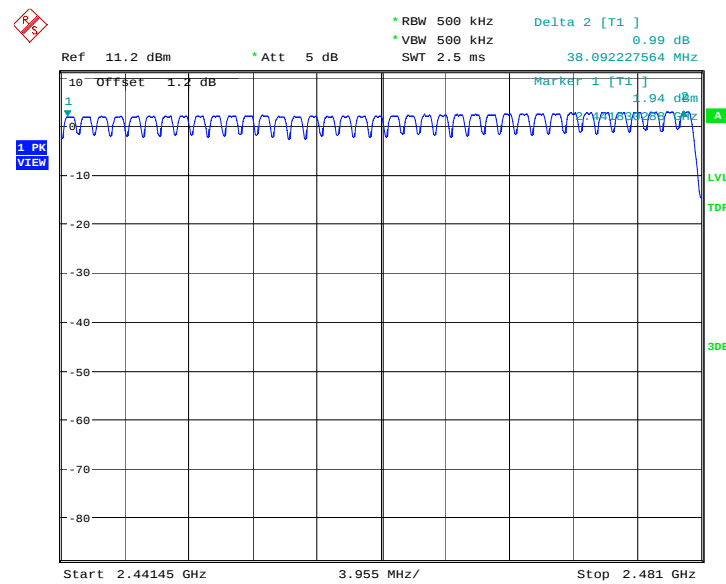
Conclusion: PASS

Test graphs as below:



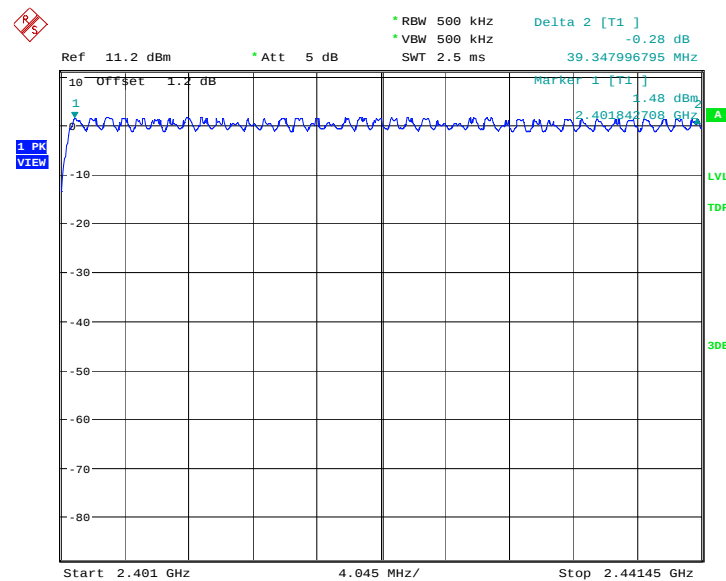
Date: 30.OCT.2013 20:50:35

Fig.124. Number of hopping frequencies: GFSK, Channel 0 - 39



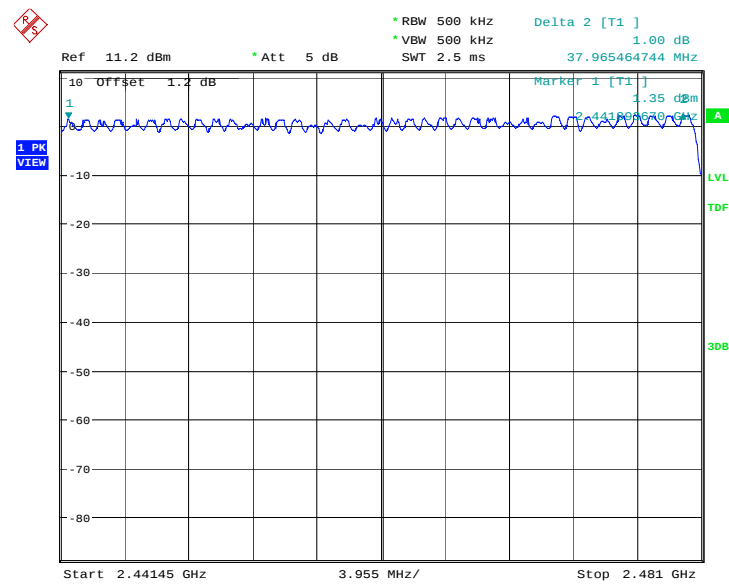
Date: 30.OCT.2013 20:52:37

Fig.125. Number of hopping frequencies: GFSK, Channel 40 - 78



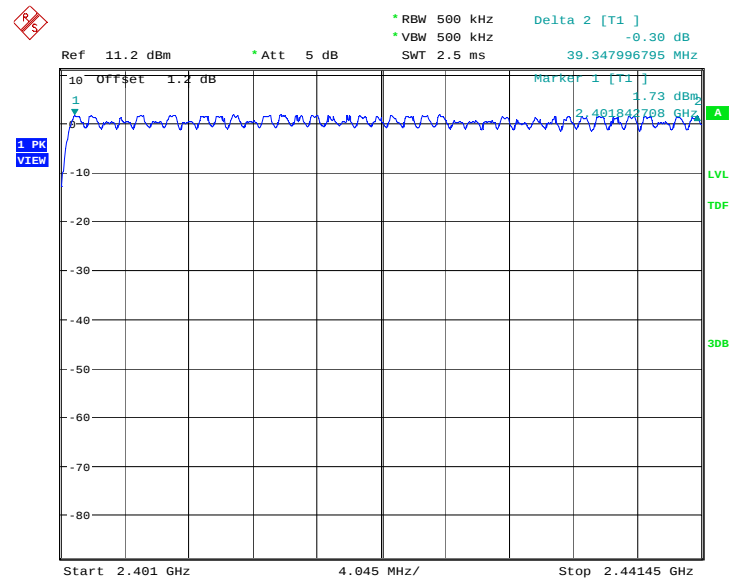
Date: 30.OCT.2013 21:11:57

Fig.126. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 0 - 39



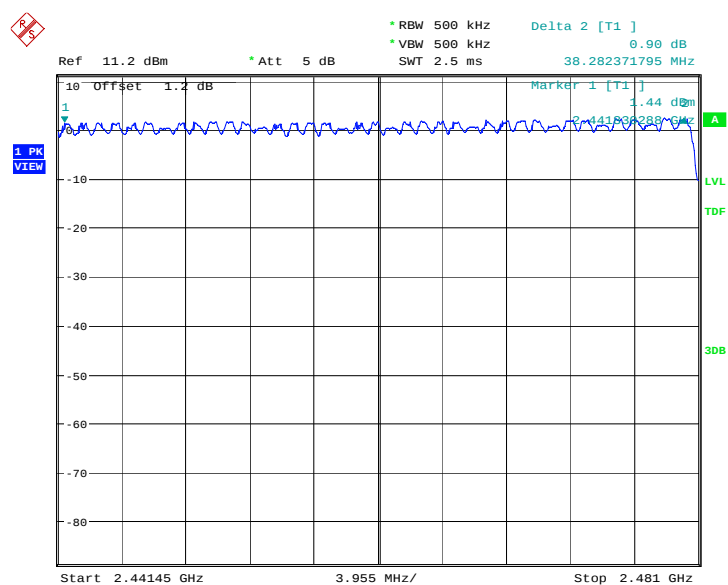
Date: 30.OCT.2013 21:13:59

Fig.127. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 40 - 78



Date: 30.OCT.2013 21:33:27

Fig.128. Number of hopping frequencies: 8DPSK, Channel 0 - 39



Date: 30.OCT.2013 21:35:29

Fig.129. Number of hopping frequencies: 8DPSK, Channel 40 - 78

A.10. 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)	Average 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.

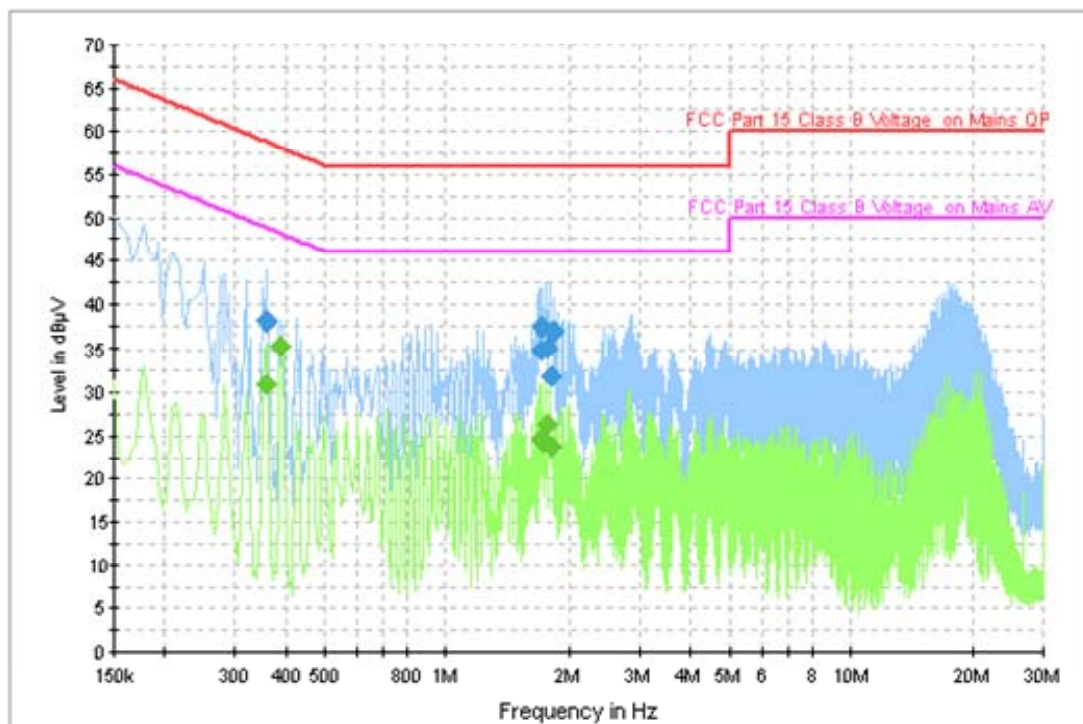
The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:

Traffic:

ESH2-Z5 Scan-FCC



Final Result 1

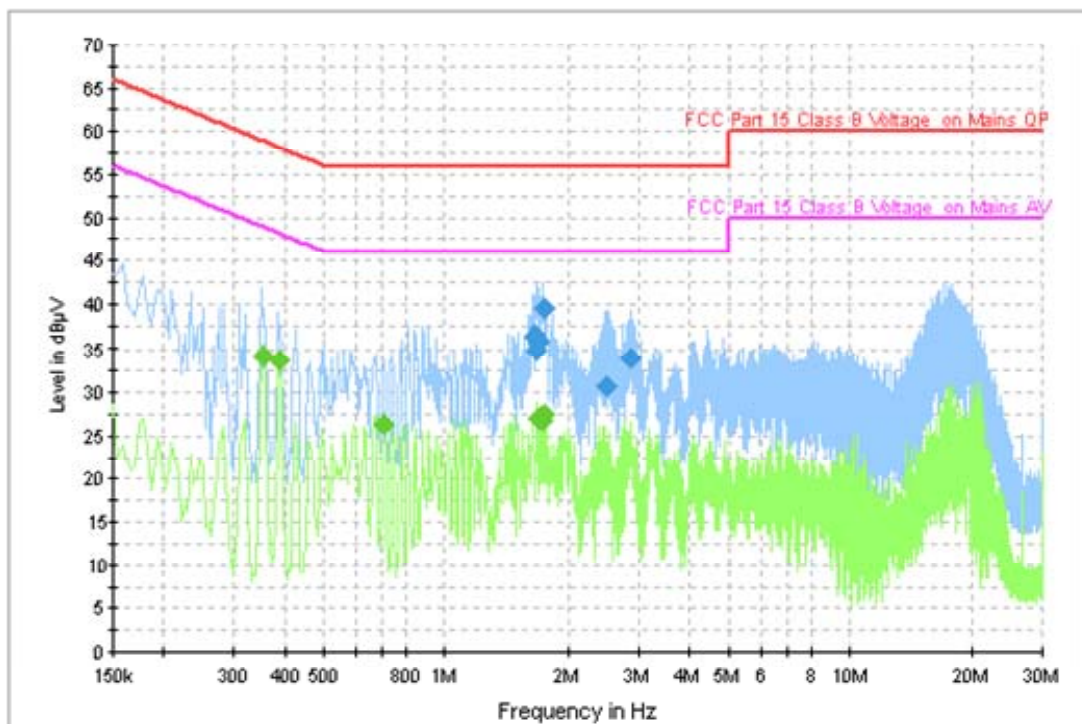
Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.358000	38.2	FL	L1	10.0	20.6	58.8
1.698000	37.3	FL	L1	10.1	18.7	56.0
1.710000	35.0	FL	L1	10.1	21.0	56.0
1.766000	35.1	FL	L1	10.1	20.9	56.0
1.802000	31.9	FL	L1	10.1	24.1	56.0
1.826000	37.0	FL	L1	10.1	19.0	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.358000	31.0	FL	L1	10.0	17.8	48.8
0.390000	35.4	FL	L1	10.0	12.7	48.1
1.698000	24.7	FL	L1	10.1	21.3	46.0
1.734000	24.3	FL	L1	10.1	21.7	46.0
1.766000	26.4	FL	L1	10.1	19.6	46.0
1.802000	23.7	FL	L1	10.1	22.3	46.0

Idle:

ESH2-Z5 Scan-FCC



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.650000	36.5	FL	L1	10.1	19.5	56.0
1.666000	34.9	FL	L1	10.1	21.1	56.0
1.686000	35.8	FL	L1	10.1	20.2	56.0
1.750000	39.6	FL	L1	10.1	16.4	56.0
2.494000	30.6	FL	L1	10.2	25.4	56.0
2.858000	33.9	FL	L1	10.1	22.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.354000	34.3	FL	L1	10.0	14.6	48.9
0.390000	33.7	FL	L1	10.0	14.3	48.1
0.706000	26.4	FL	L1	10.0	19.6	46.0
1.682000	27.0	FL	L1	10.1	19.0	46.0
1.718000	26.7	FL	L1	10.1	19.3	46.0
1.750000	27.6	FL	L1	10.1	18.4	46.0

*** END OF REPORT BODY ***