



FCC PART 15C TEST REPORT

No. 2012TAR419

for

TCT Mobile Limited

GSM Quad Band and UMTS Dual Band Mobile Phone

Model Name: Blue3G

Marketing Name: Vodafone Chat 655

FCC ID: RAD280

With

Hardware Version: PIO01

Software Version: J30

Issued Date: 2012-08-08



No. DGA-PL-114/01-02

DAR accreditation (DIN EN ISO/IEC 17025): No. DGA-PL-114/01-02

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: 00861062304793

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: 2012-08-02
Testing End Date: 2012-08-08

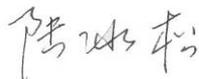
1.4. Signature



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, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Country: China
Telephone: 0086 21 68897541
Fax: 0086 21 50801070

2.2. Manufacturer Information

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

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

3.1. About EUT

Description	GSM Quad Band and UMTS Dual Band Mobile Phone
Model Name	Blue3G
Marketing Name	Vodafone Chat 655
FCC ID	RAD280
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	GFSK/ π /4 DQPSK/8DPSK
Number of Channels	79
Power Supply	3.7V DC by Battery

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
N07	865659010150206	PIO01	J30
N11	865659010150115	PIO01	J30

*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	SN
AE1	Battery	/
AE2	Battery	/
AE3	Charger	/
AE4	Charger	/

AE1

Model	CAB31L0000C1
Manufacturer	BYD
Capacitance	1000mAh
Nominal Voltage	3.7V

AE2

Model	CAB31L0000C2
Manufacturer	BAK
Capacitance	1000mAh
Nominal Voltage	3.7V

AE3

Model	CBA6050AA1C2
Manufacturer	BYD
Length of DC line	120cm

AE4

Model	CBA6050AA1C1
Manufacturer	Tenpao
Length of DC line	120cm

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

3.4. General Description

The Equipment Under Test (EUT) is a model of GSM Quad Band and UMTS Dual 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. 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 C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2009
FCC Public Notice DA 00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems	March 2000
RSS - Gen Issue 3	Spectrum Management and Telecommunications - Radio Standards Specification	2010-12
KDB412172 D01	General Requirements and Information for the Certification of Radiocommunication Equipment Guidelines for Determining the Effective Radiated Power (ERP) and Equivalent Isotropically Radiated Power (EIRP) of a RF Transmitting System	2011

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 Public notice DA 00-705 and ANSI C63.4.

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	2013-04-18
2	Bluetooth Tester	CBT32	100649	Rohde & Schwarz	2013-04-03

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date
1	Test Receiver	ESI40	831564/002	Rohde & Schwarz	2013-04-06
2	EMI Antenna	VULB 9163	9163 301	Schwarzbeck	2013-04-12
3	EMI Antenna	3117	00034610	EMCO	2013-04-05
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2013-04-10
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2013-04-05
6	Universal Radio Communication Tester	CMU200	105948	Rohde & Schwarz	2013-04-20
7	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013-04-18
8	Pre-amplifier(18GHz)	/	1005277	Rohde & Schwarz	/
9	Pre-amplifier(26.5GHz)	/	1005277	Rohde & Schwarz	/

Anechoic chamber

Fully anechoic chamber by Frankonia German.

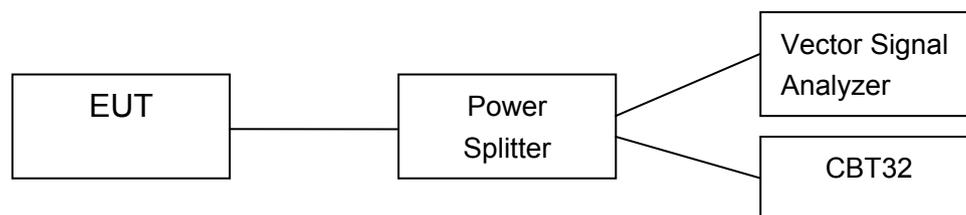
ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

The measurement is made according to Public notice DA 00-705 and ANSI C63.4.

- 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

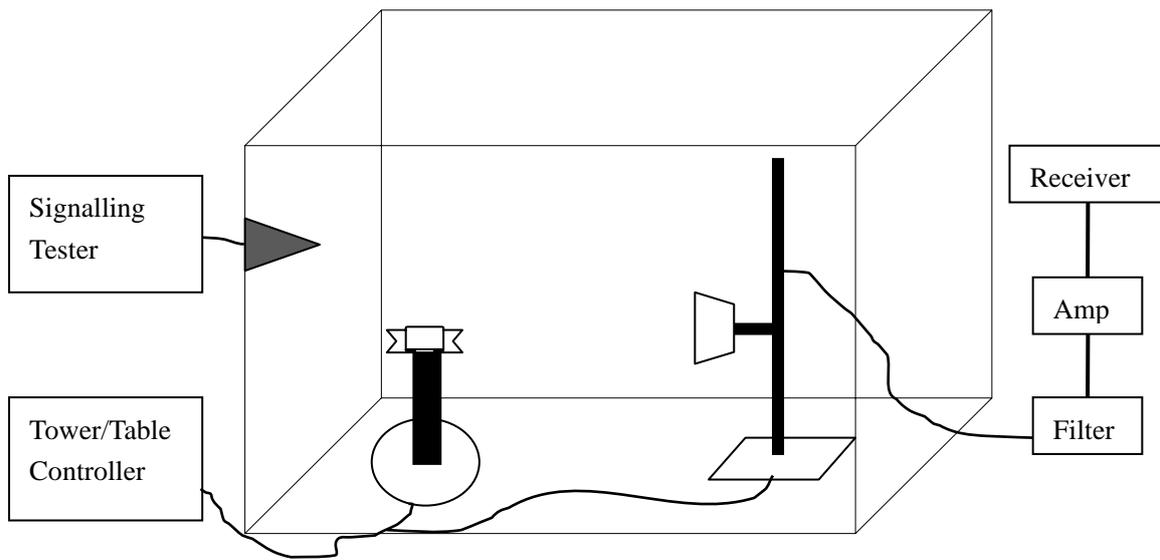
The measurement is made according to Public notice DA 00-705 and ANSI C63.4

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 Public notice DA 00-705 and ANSI C63.4.

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)	-0.20	-0.30	0.95	P

For $\pi/4$ DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	0.19	0.00	1.29	P

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	0.75	0.50	1.84	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 Public notice DA 00-705 and ANSI C63.4.

Measurement Result:

For GFSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.1	-55.27	P
	Hopping ON	Fig.2	-54.78	P
78	Hopping OFF	Fig.3	-59.91	P
	Hopping ON	Fig.4	-60.23	P

For $\pi/4$ DQPSK

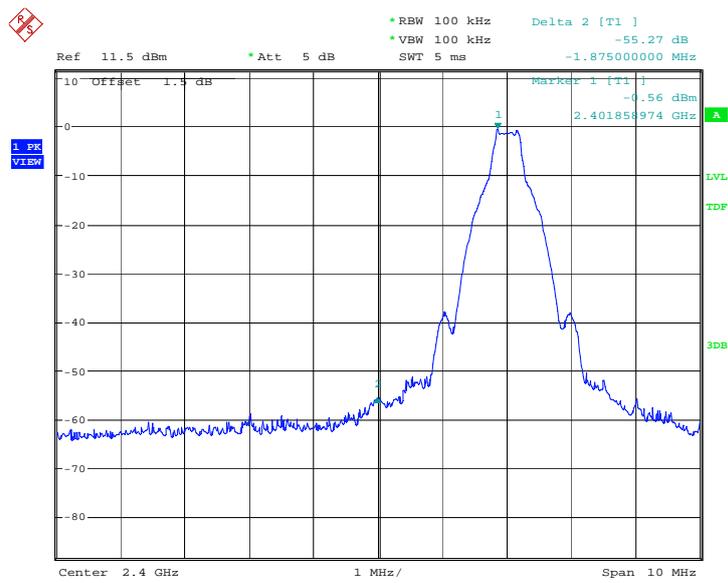
Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.5	-54.19	P
	Hopping ON	Fig.6	-51.29	P
78	Hopping OFF	Fig.7	-59.47	P
	Hopping ON	Fig.8	-55.59	P

For 8DPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.9	-55.01	P
	Hopping ON	Fig.10	-56.83	P
78	Hopping OFF	Fig.11	-58.94	P
	Hopping ON	Fig.12	-55.21	P

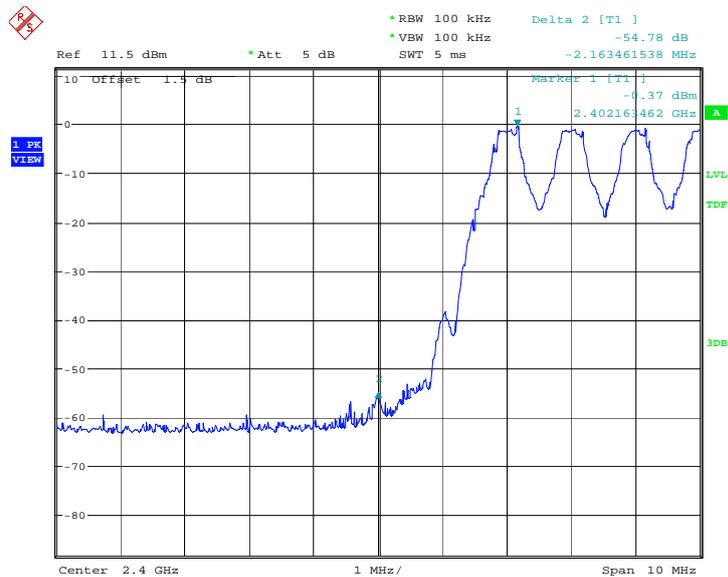
Conclusion: PASS

Test graphs as below



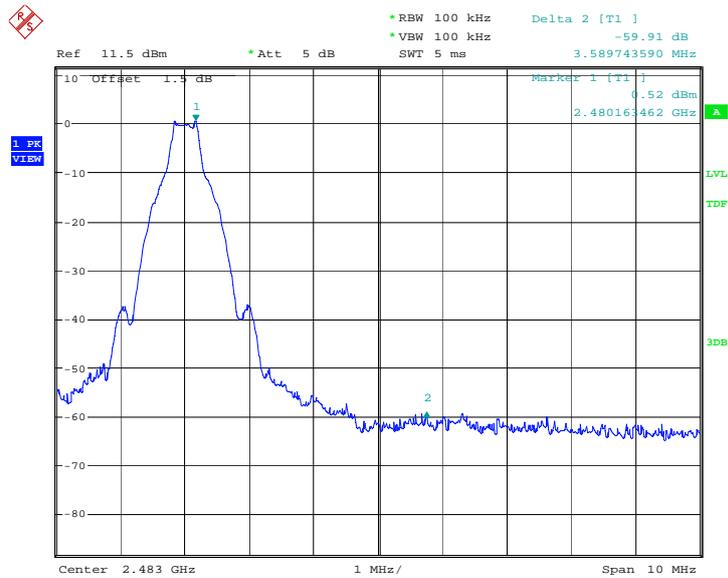
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Fig.1. Frequency Band Edges: GFSK, Channel 0, Hopping Off



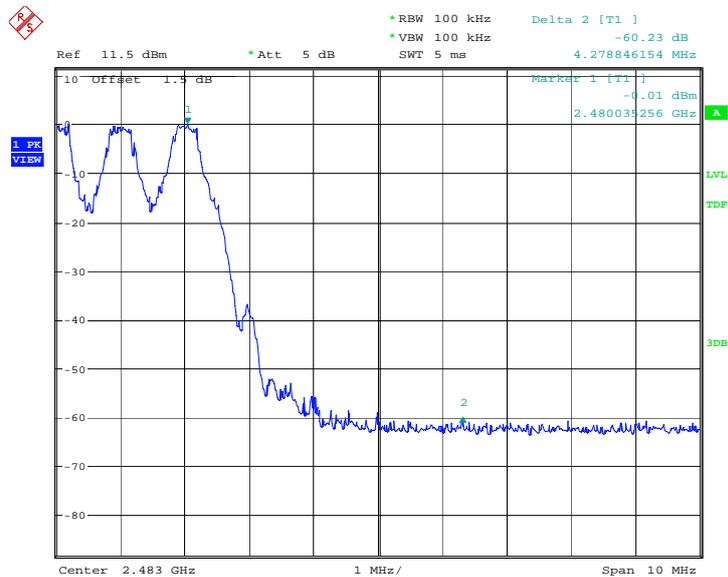
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Fig.2. Frequency Band Edges: GFSK, Channel 0, Hopping On



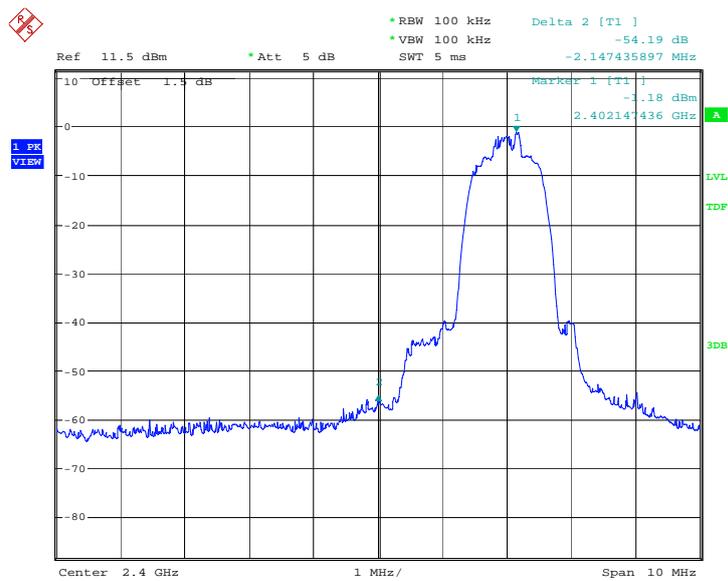
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Fig.3. Frequency Band Edges: GFSK, Channel 78, Hopping Off



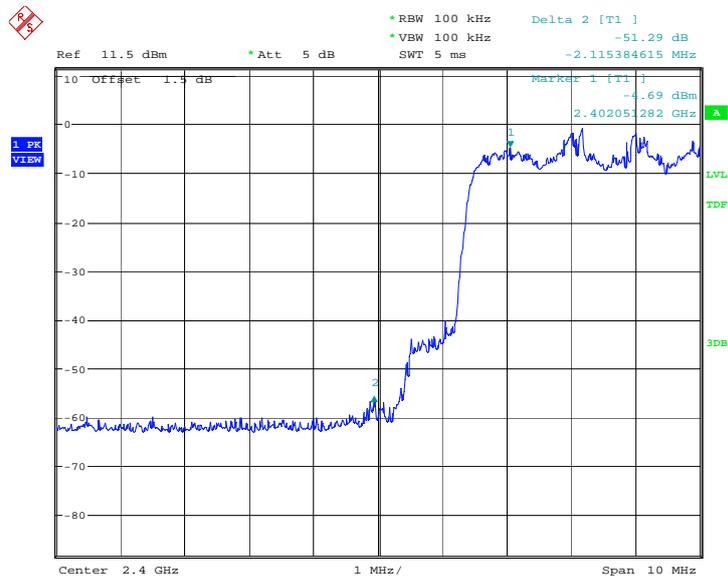
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Fig.4. Frequency Band Edges: GFSK, Channel 78, Hopping On



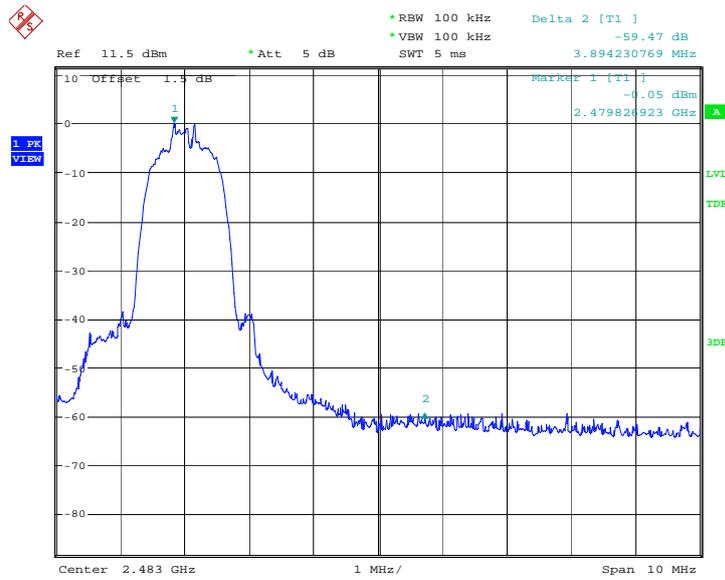
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Fig.5. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping Off



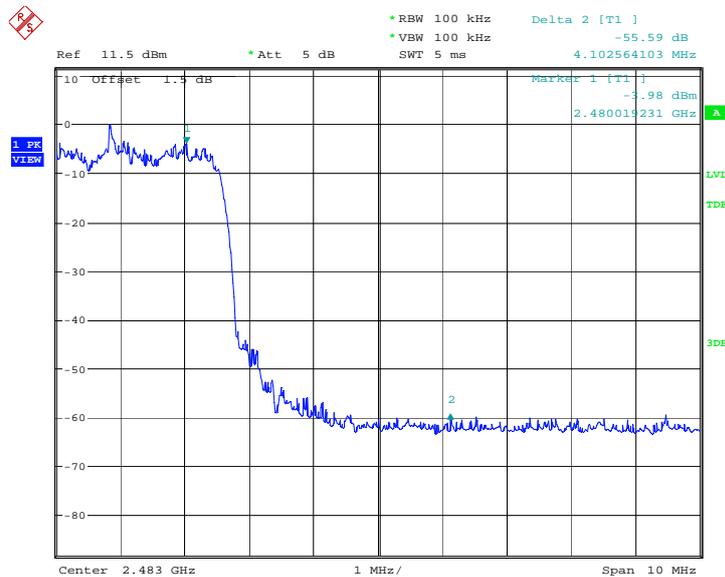
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Fig.6. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping On



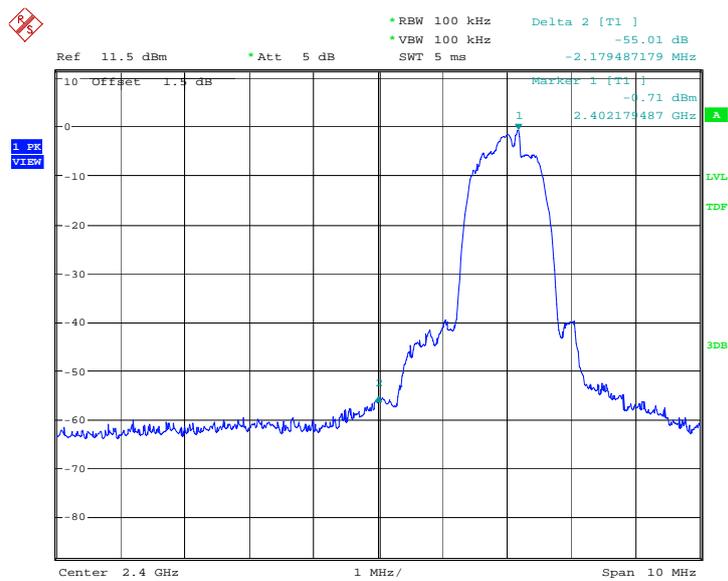
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Fig.7. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping Off



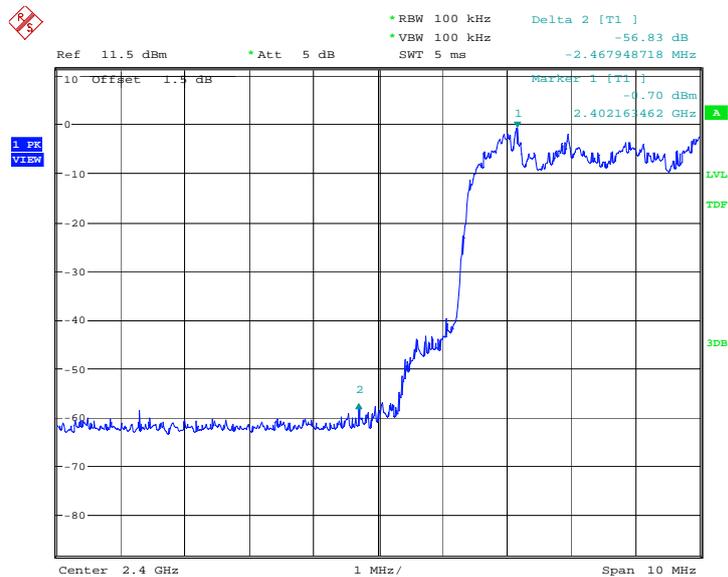
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Fig.8. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping On



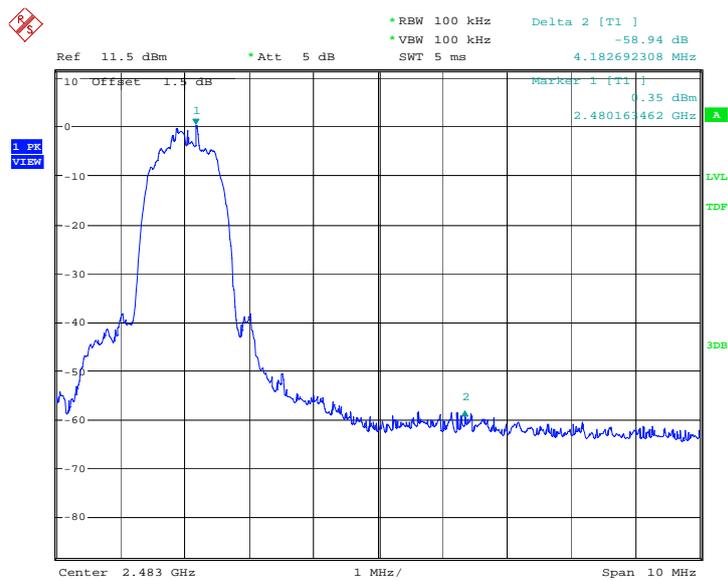
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Fig.9. Frequency Band Edges: 8DPSK, Channel 0, Hopping Off



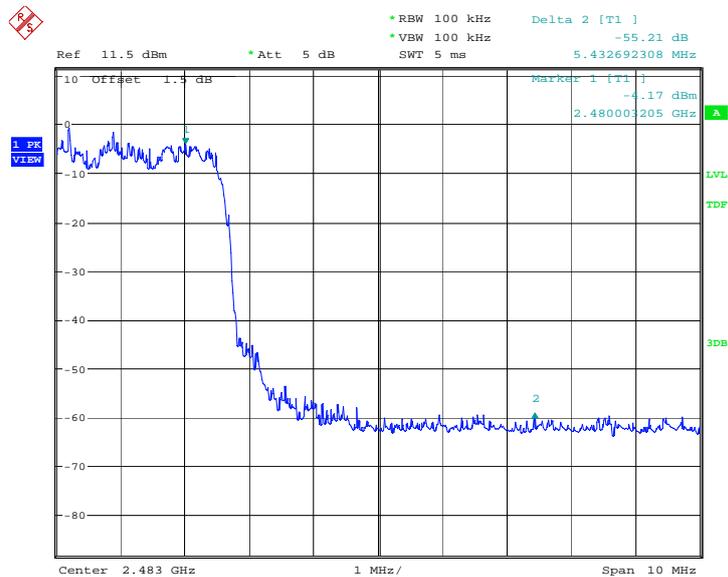
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Fig.10. Frequency Band Edges: 8DPSK, Channel 0, Hopping On



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



Date: 13.JUL.2012 03:36:55

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 Public notice DA 00-705 and ANSI C63.4

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

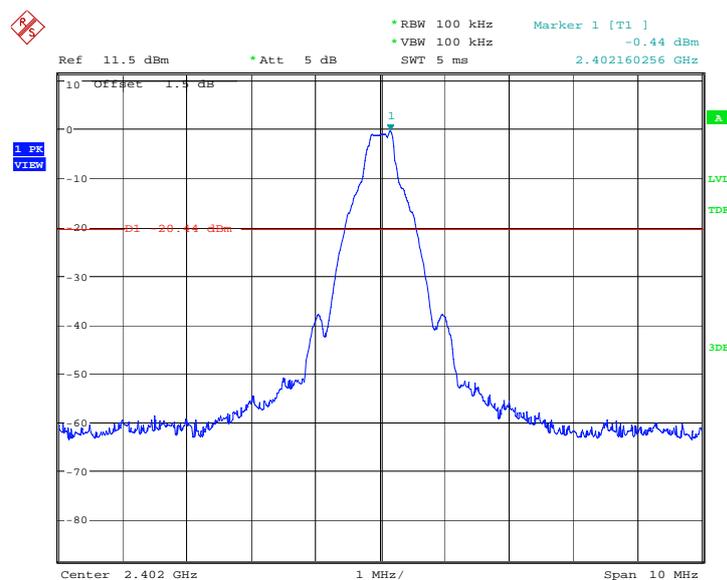
	1 GHz ~ 3 GHz	Fig.40	P
	3 GHz ~ 10 GHz	Fig.41	P
	10 GHz ~ 26 GHz	Fig.42	P

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

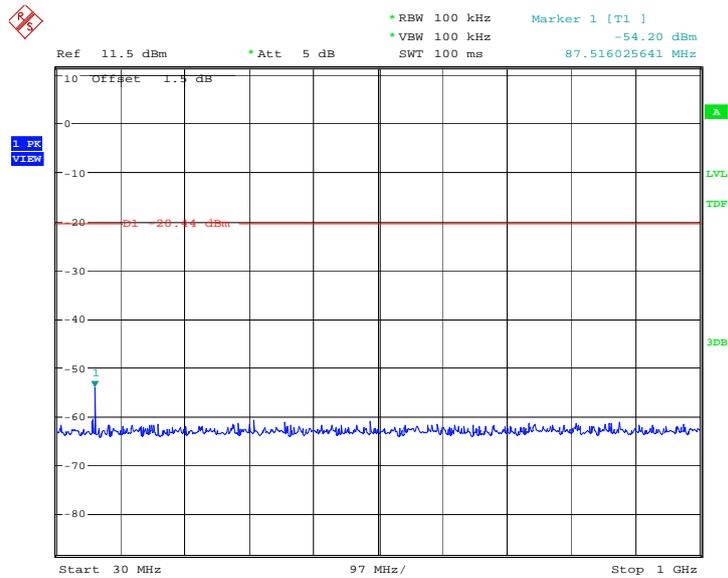
Conclusion: PASS

Test graphs as below



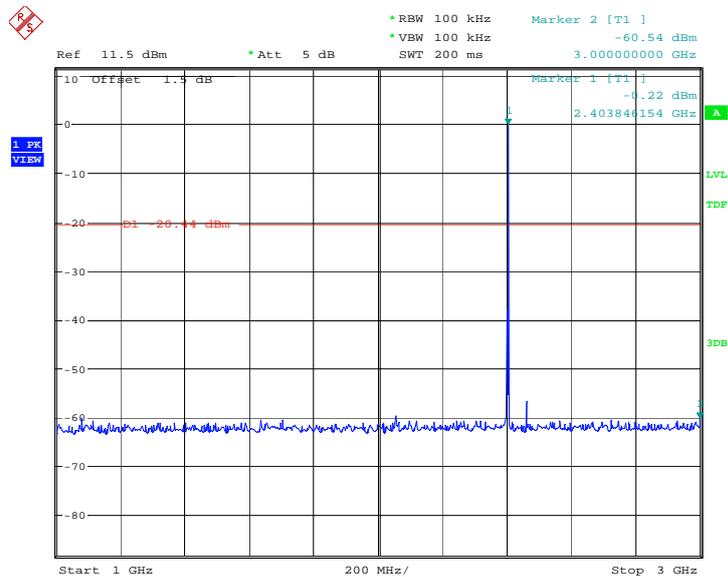
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Fig.13. Conducted spurious emission: GFSK, Channel 0,2402MHz



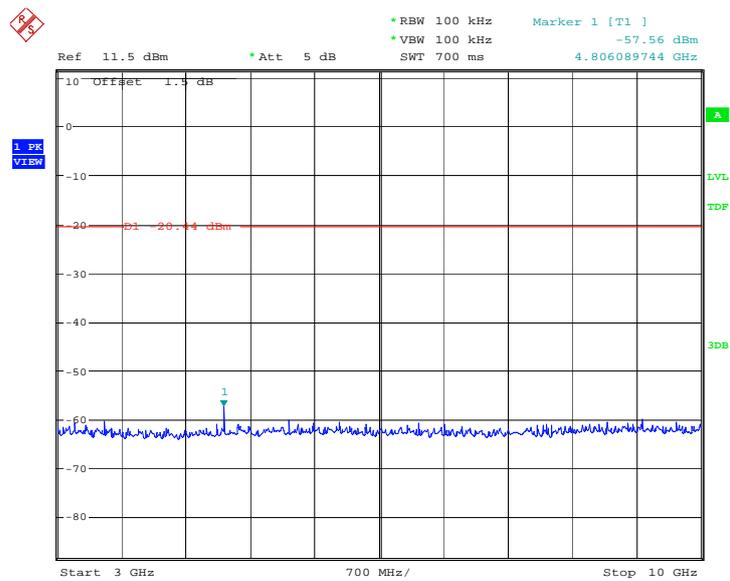
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Fig.14. Conducted spurious emission: GFSK, Channel 0, 30MHz - 1GHz



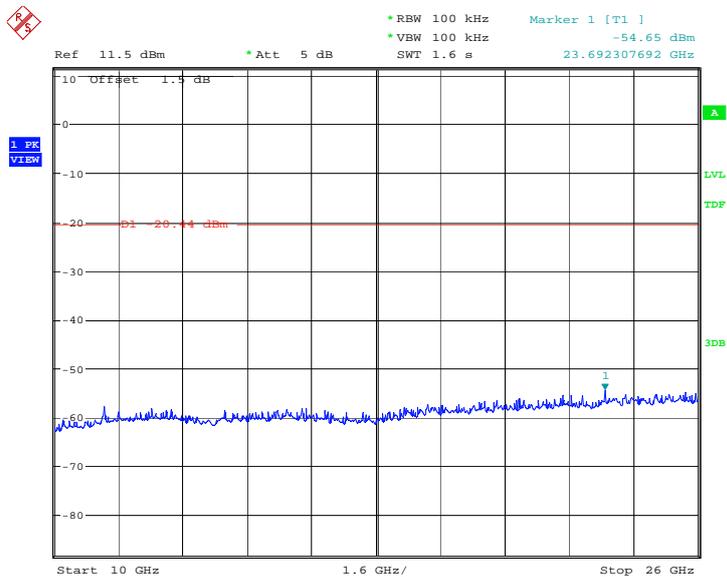
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Fig.15. Conducted spurious emission: GFSK, Channel 0, 1GHz - 3GHz



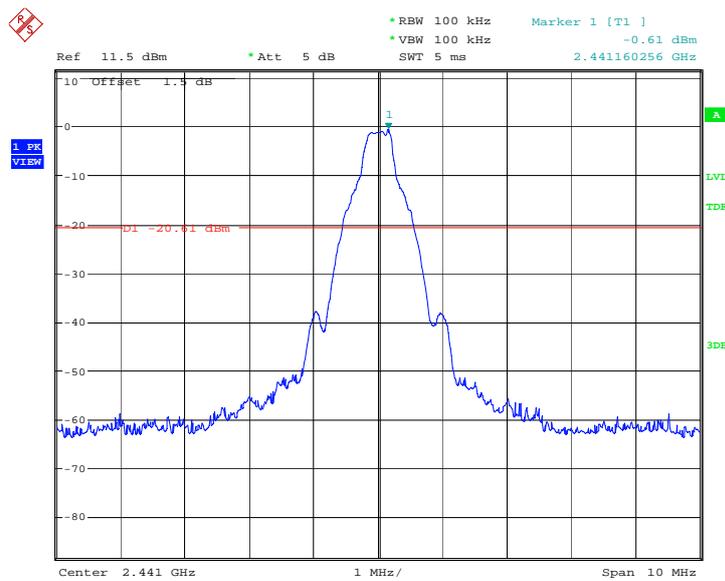
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Fig.16. Conducted spurious emission: GFSK, Channel 0, 3GHz - 10GHz



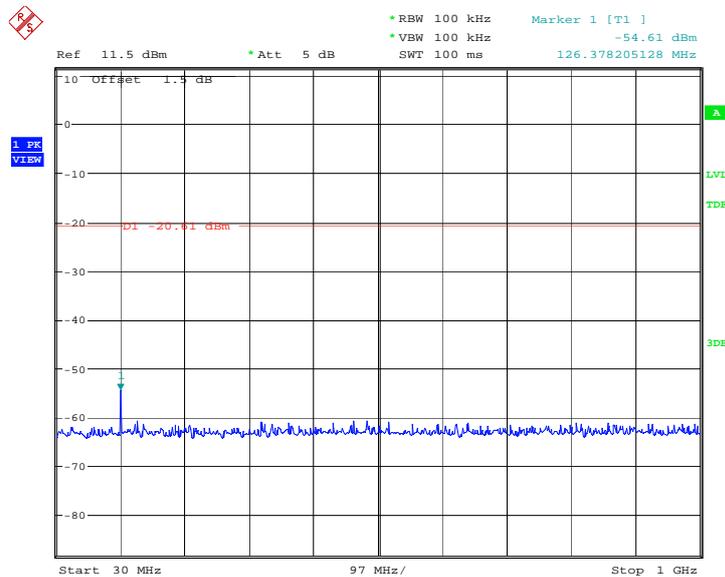
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Fig.17. Conducted spurious emission: GFSK, Channel 0, 10GHz - 26GHz



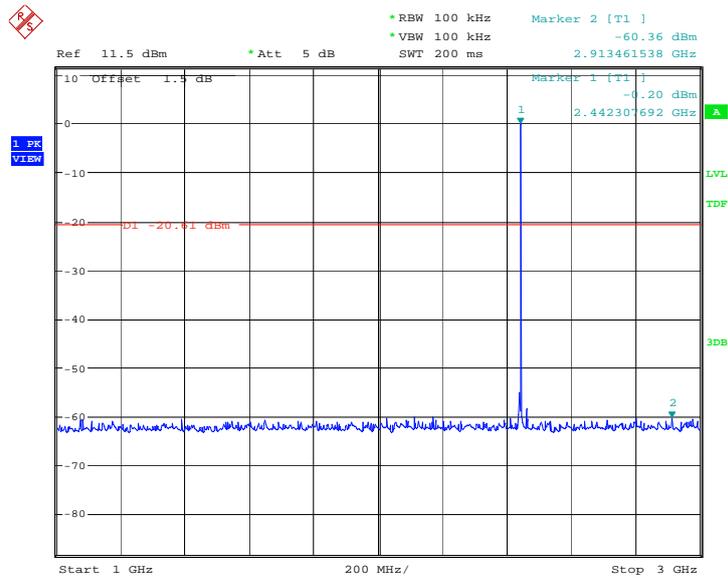
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Fig.18. Conducted spurious emission: GFSK, Channel 39, 2441MHz



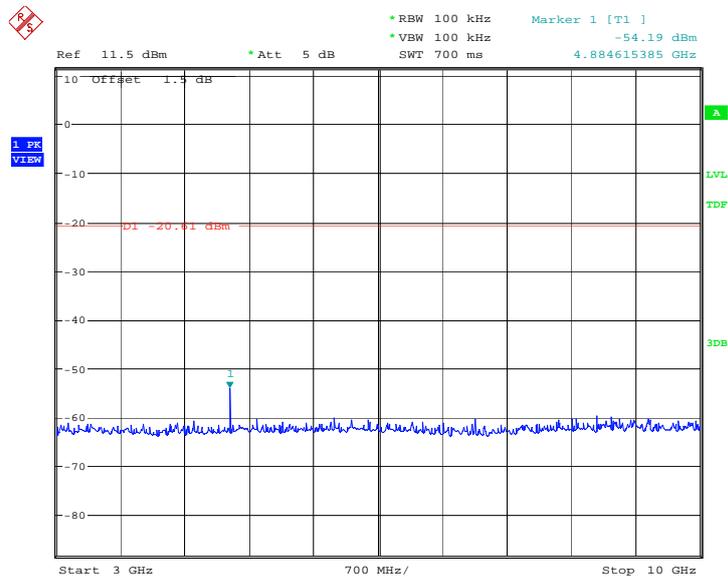
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Fig.19. Conducted spurious emission: GFSK, Channel 39, 30MHz - 1GHz



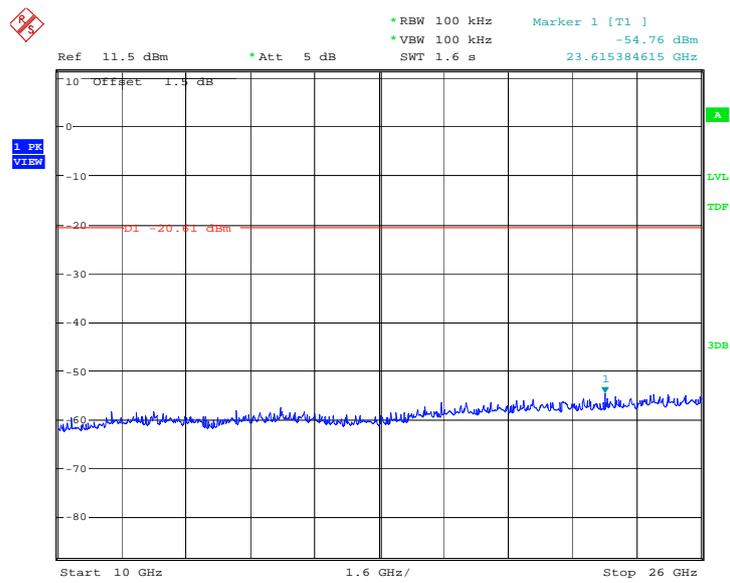
Date: 13.JUL.2012 02:55:39

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



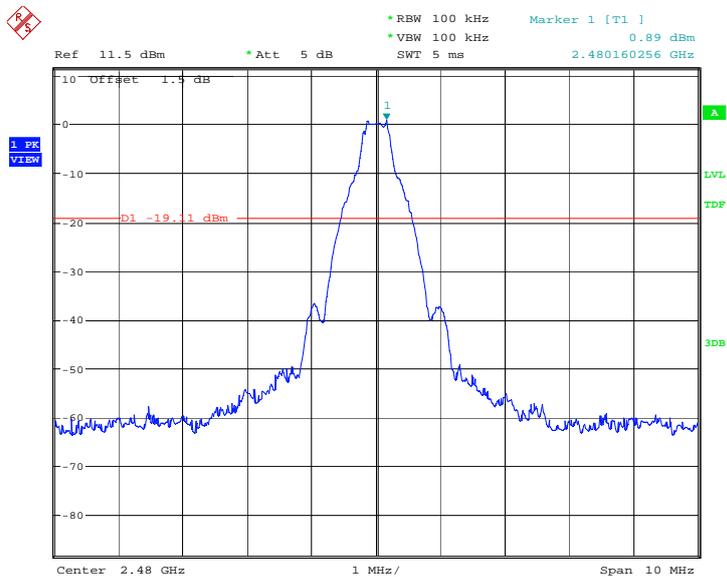
Date: 13.JUL.2012 02:55:55

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



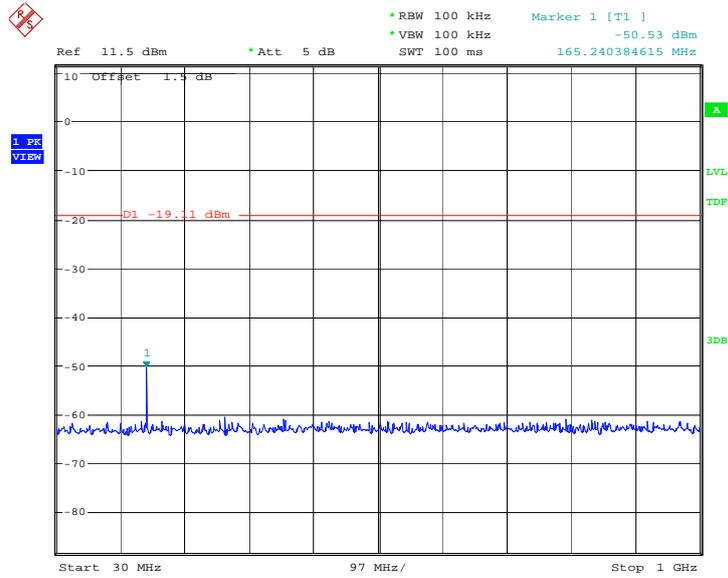
Date: 13.JUL.2012 02:56:12

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



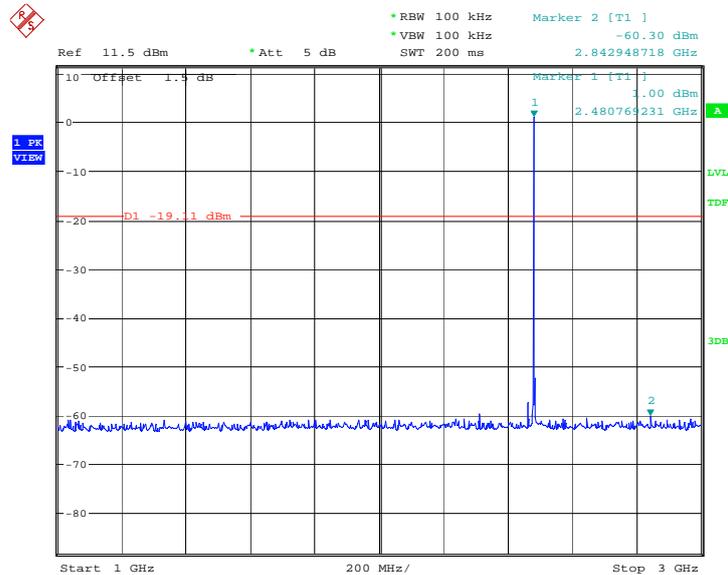
Date: 13.JUL.2012 02:56:29

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



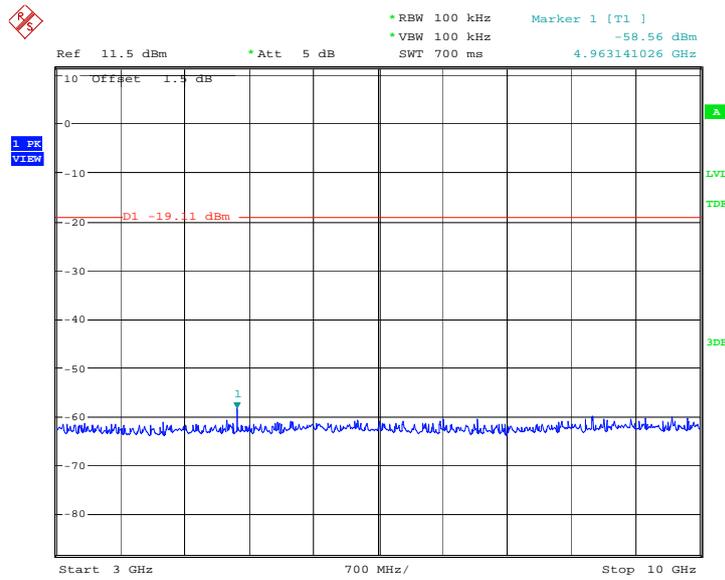
Date: 13.JUL.2012 02:56:45

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



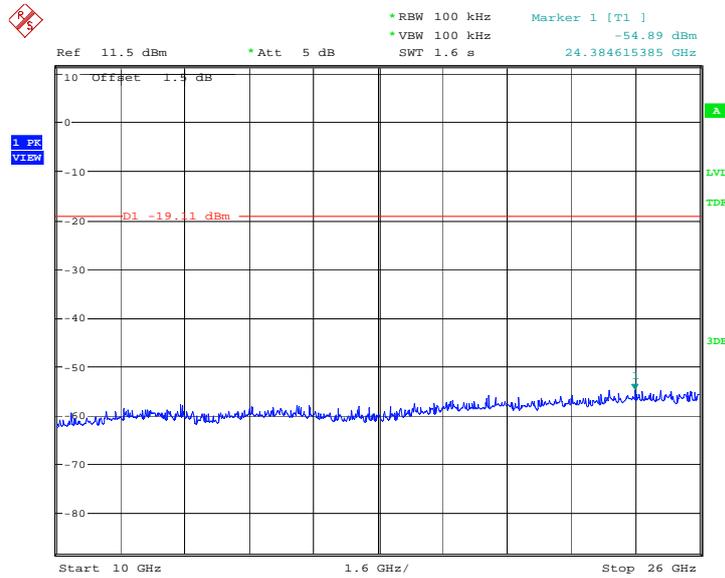
Date: 13.JUL.2012 02:57:17

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



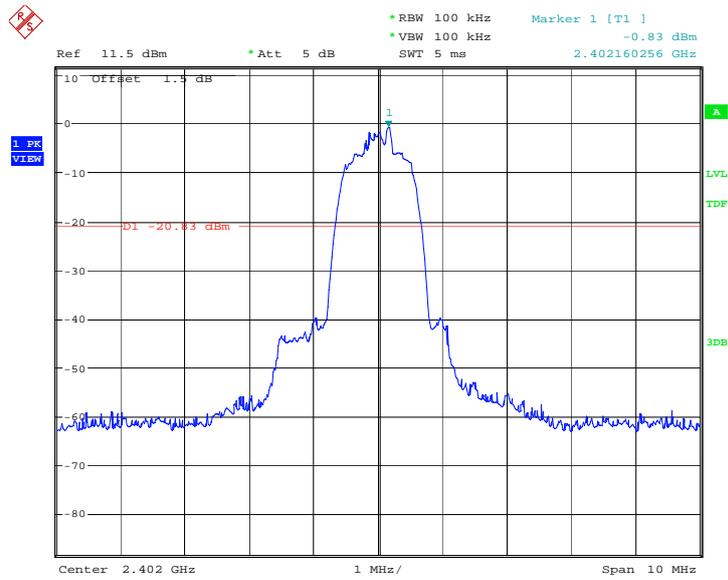
Date: 13.JUL.2012 02:57:33

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



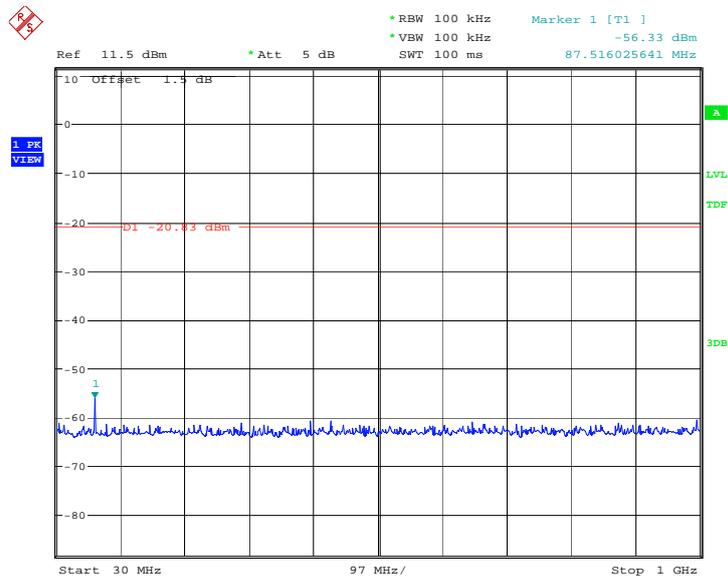
Date: 13.JUL.2012 02:57:50

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



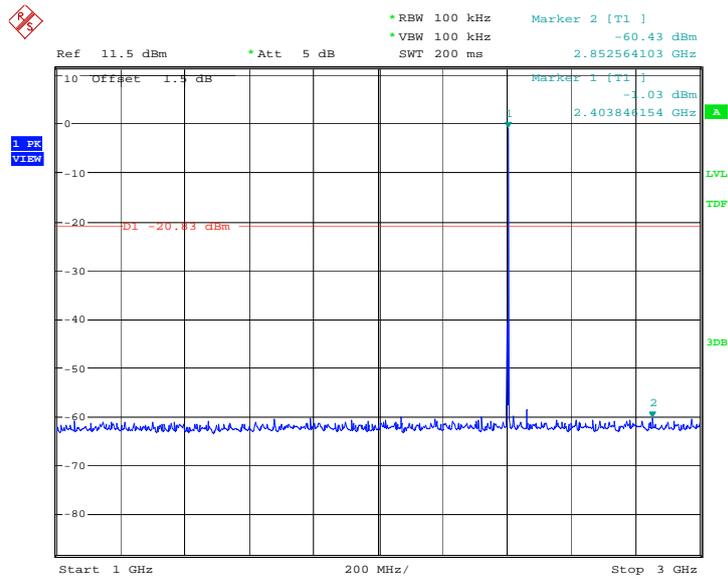
Date: 13.JUL.2012 03:15:17

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



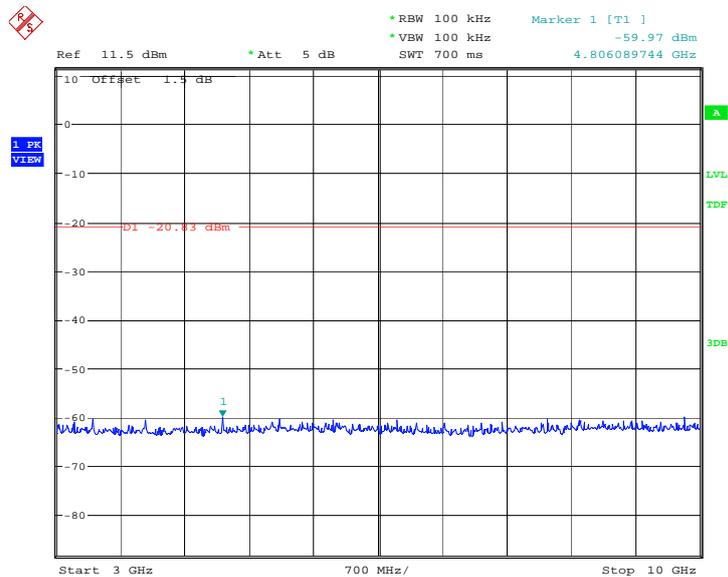
Date: 13.JUL.2012 03:15:34

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



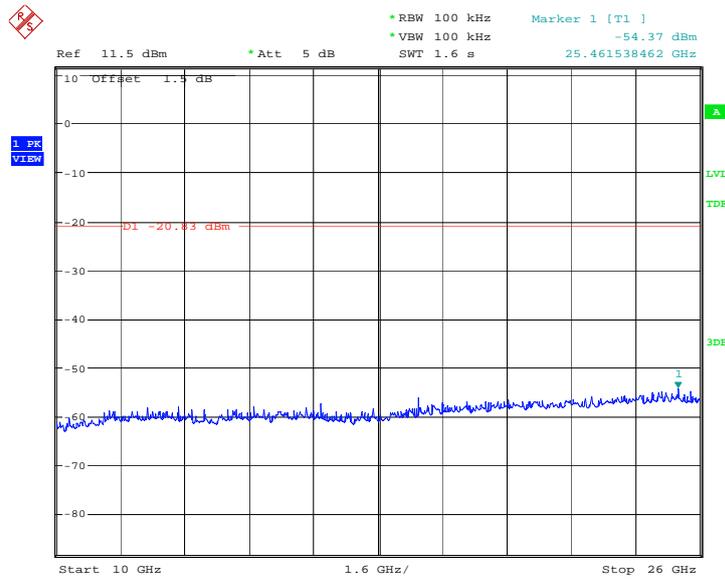
Date: 13.JUL.2012 03:16:05

Fig.30. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 1GHz - 3GHz



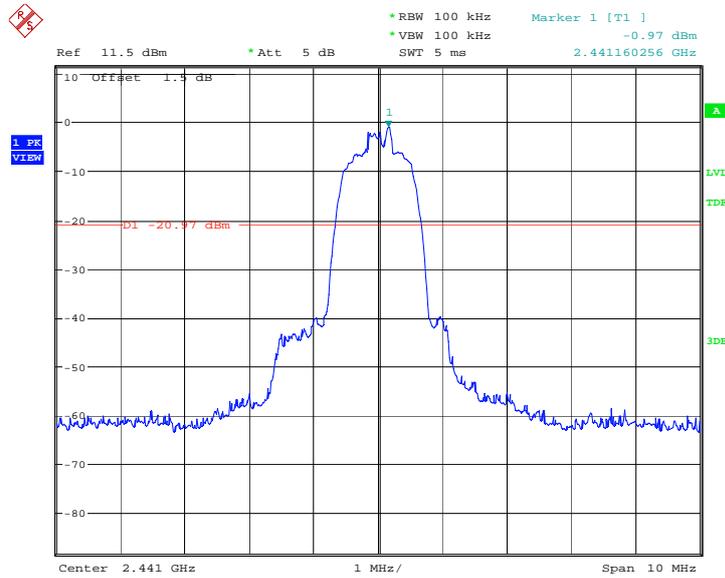
Date: 13.JUL.2012 03:16:22

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



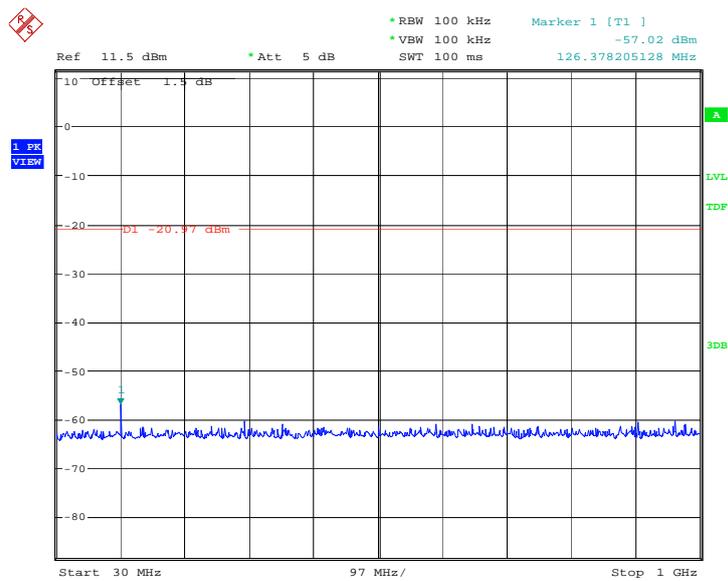
Date: 13.JUL.2012 03:16:39

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



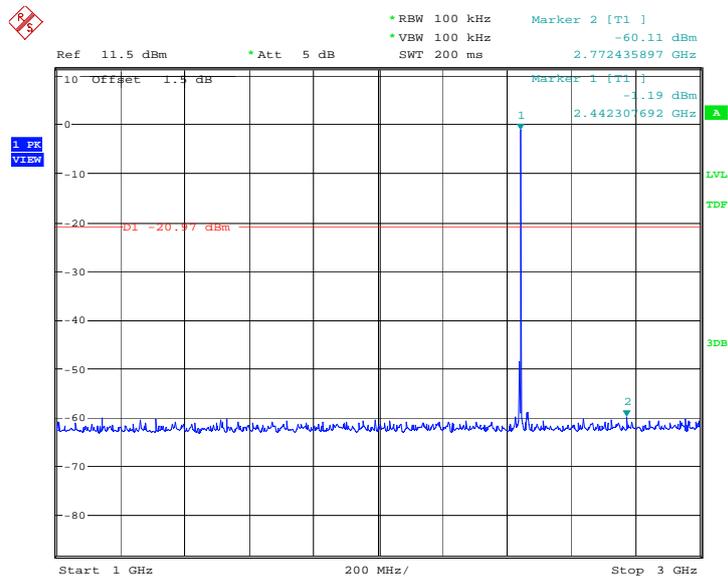
Date: 13.JUL.2012 03:16:55

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



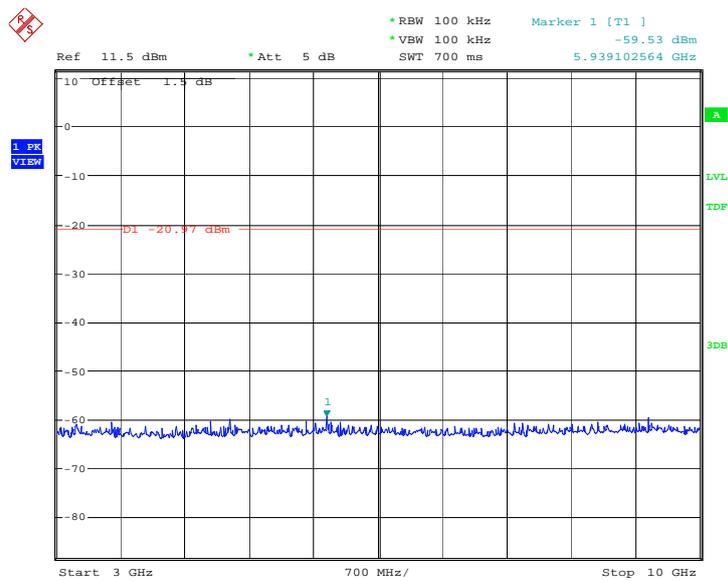
Date: 13.JUL.2012 03:17:12

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



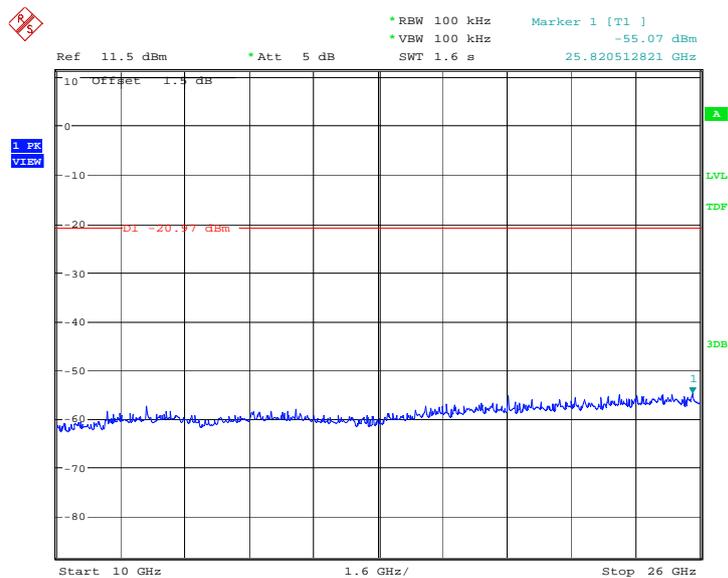
Date: 13.JUL.2012 03:17:43

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



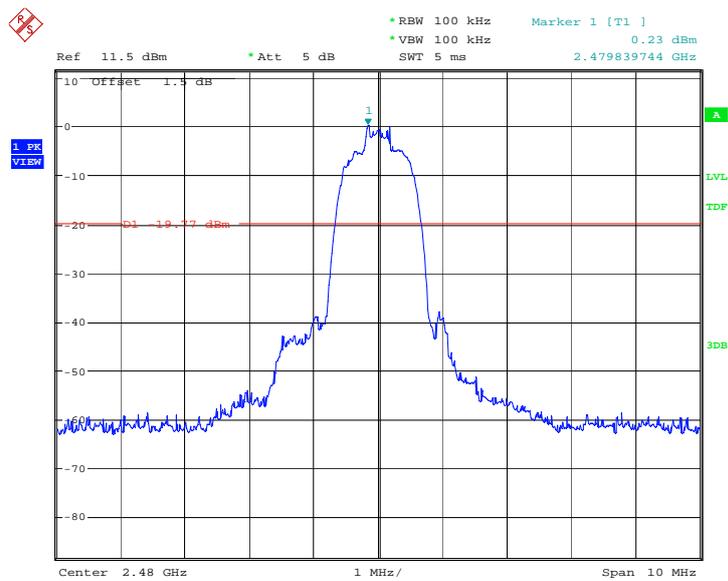
Date: 13.JUL.2012 03:17:59

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



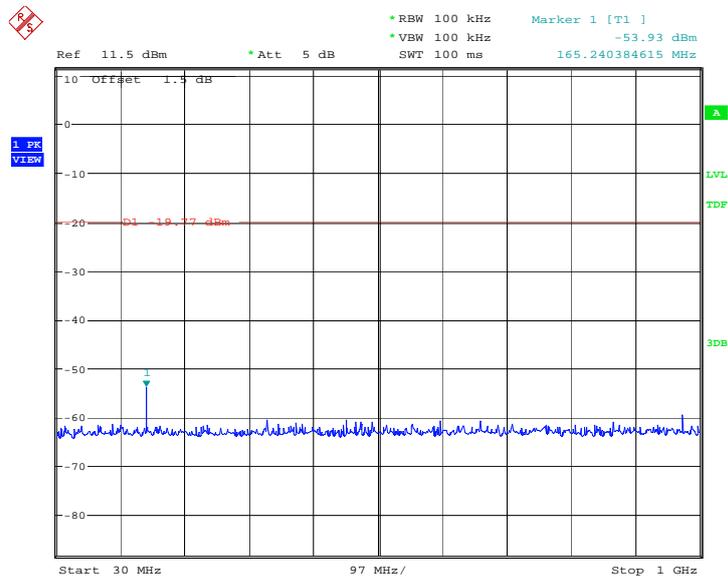
Date: 13.JUL.2012 03:18:15

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



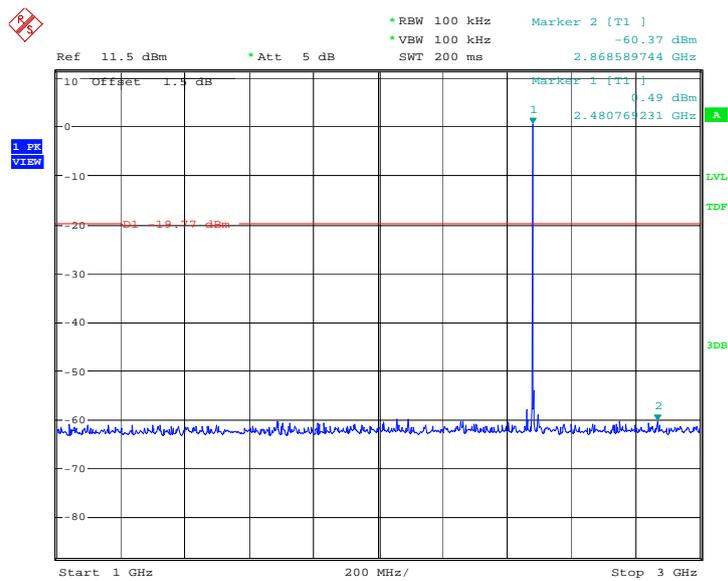
Date: 13.JUL.2012 03:18:31

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



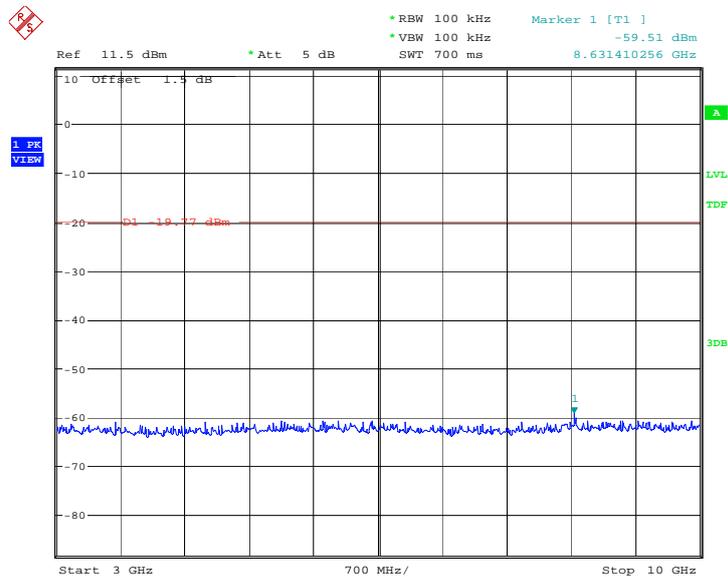
Date: 13.JUL.2012 03:18:47

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



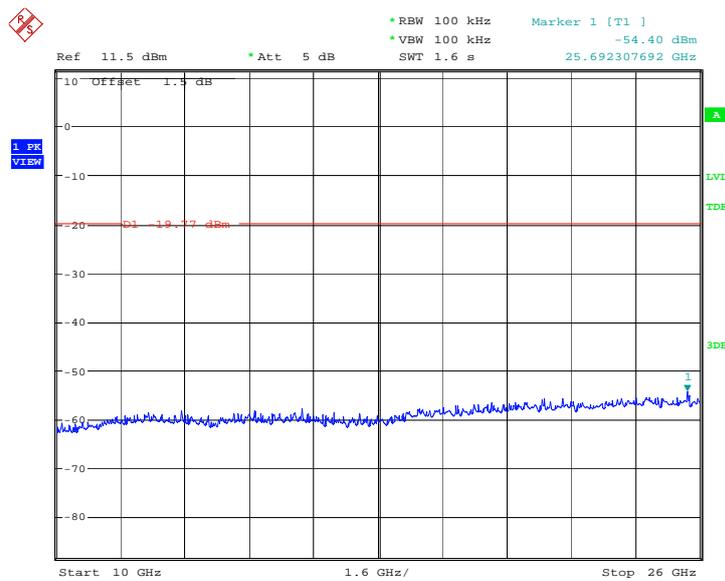
Date: 13.JUL.2012 03:19:18

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



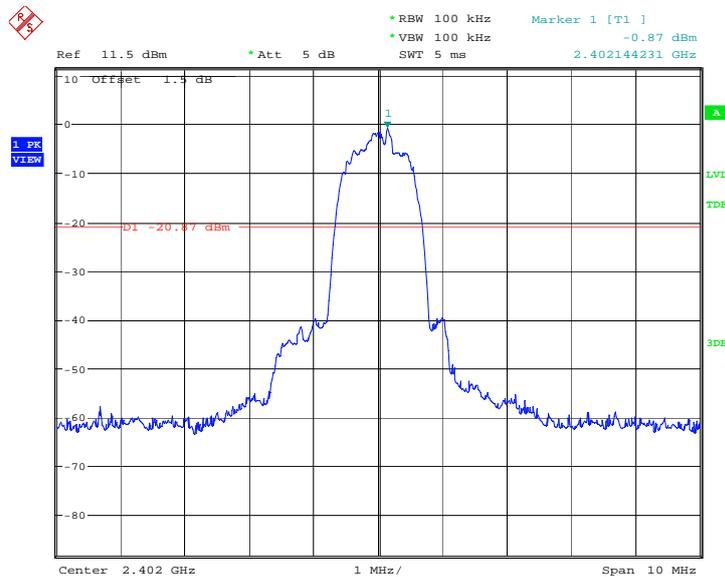
Date: 13.JUL.2012 03:19:34

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



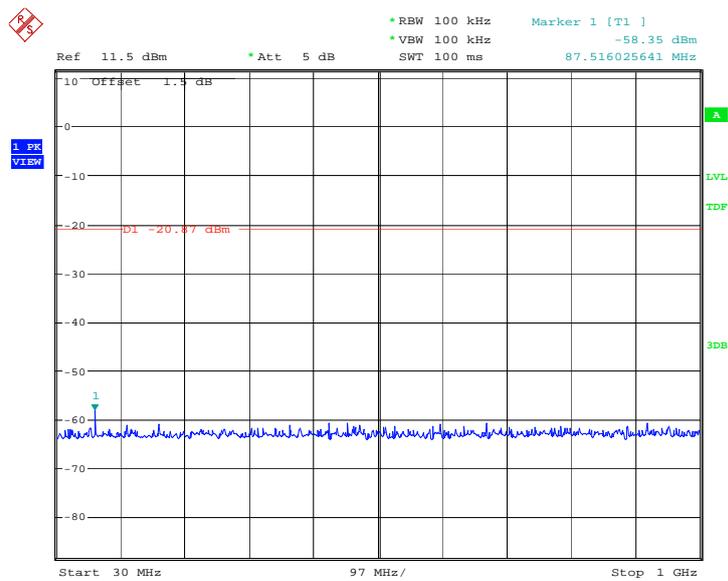
Date: 13.JUL.2012 03:19:50

Fig.42. Fig.30 Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 10GHz - 26GHz



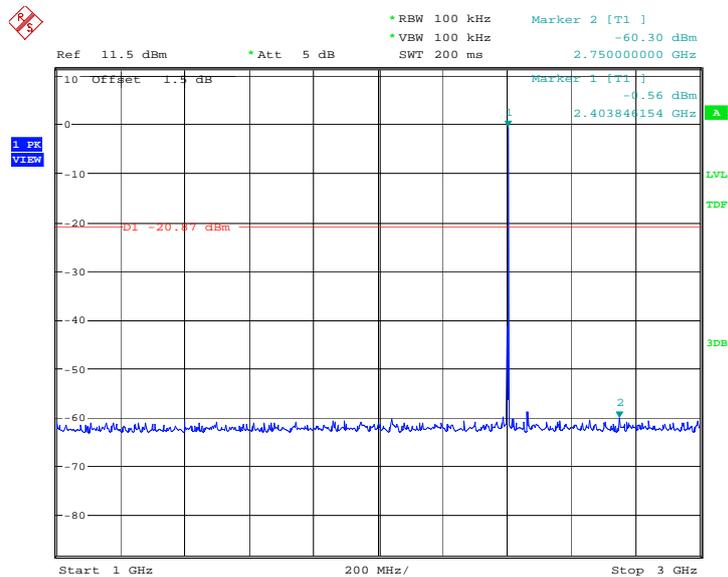
Date: 13.JUL.2012 03:37:14

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



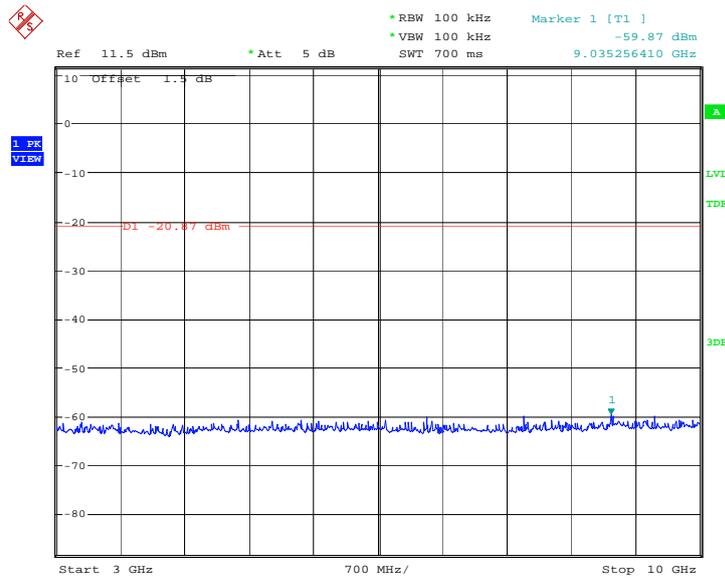
Date: 13.JUL.2012 03:37:31

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



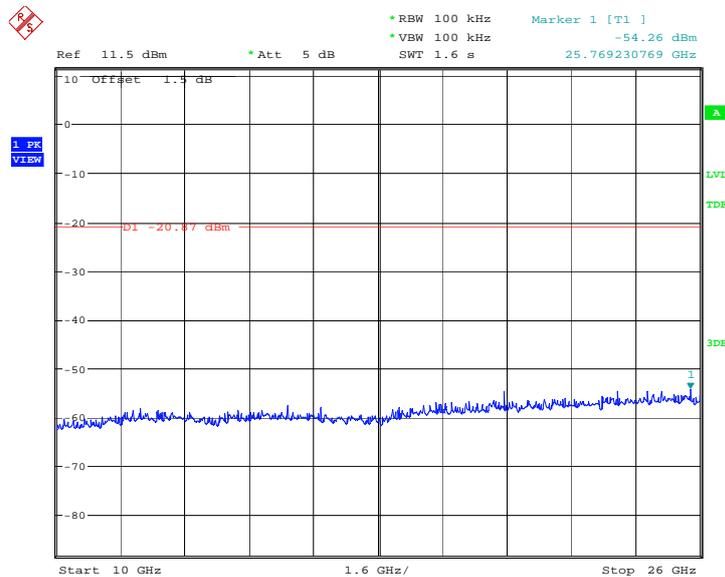
Date: 13.JUL.2012 03:38:02

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



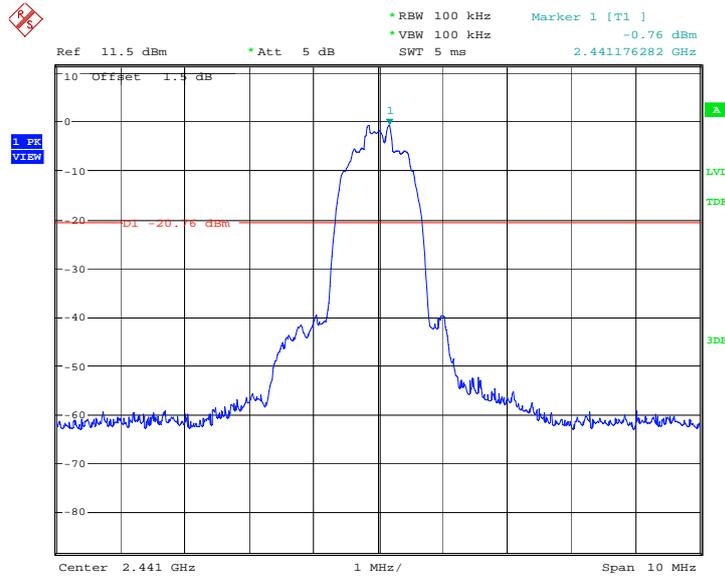
Date: 13.JUL.2012 03:38:19

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



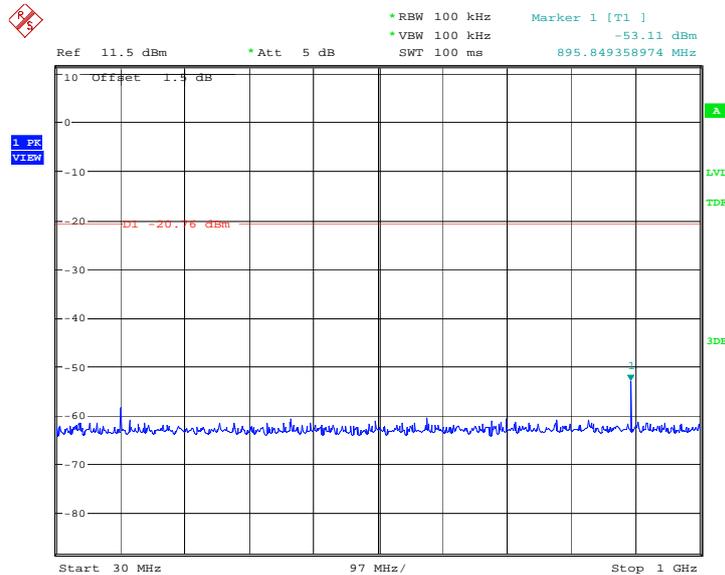
Date: 13.JUL.2012 03:38:35

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



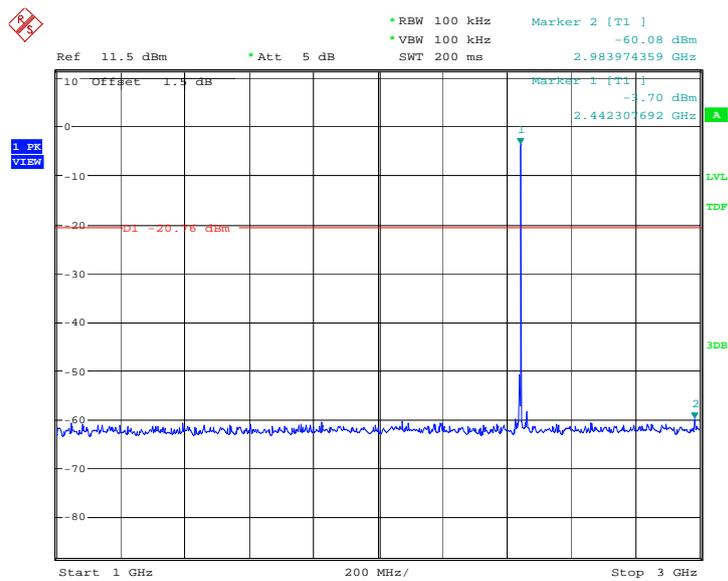
Date: 13.JUL.2012 03:38:52

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



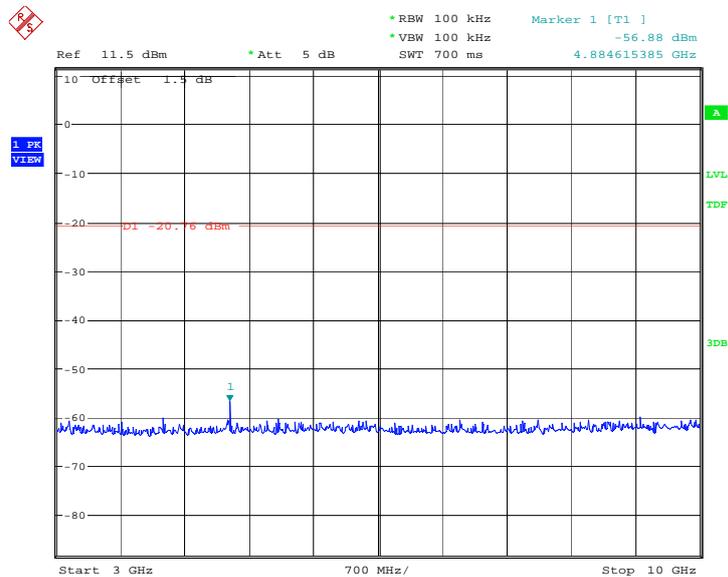
Date: 13.JUL.2012 03:39:09

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



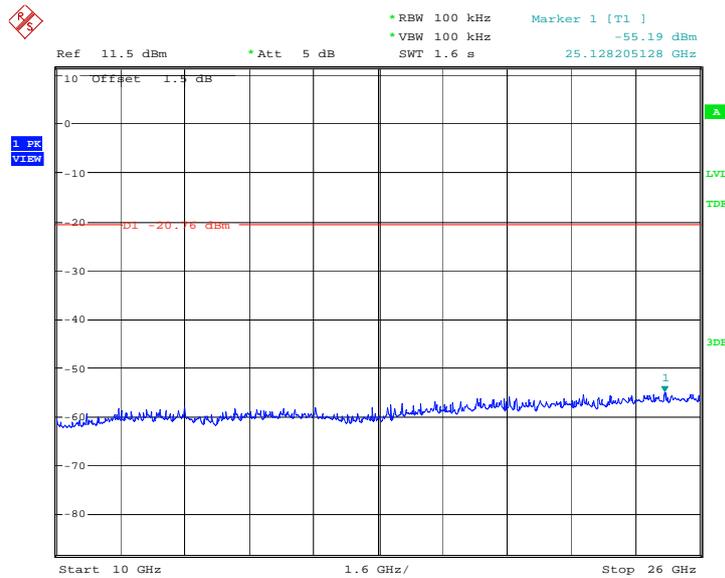
Date: 13.JUL.2012 03:39:40

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



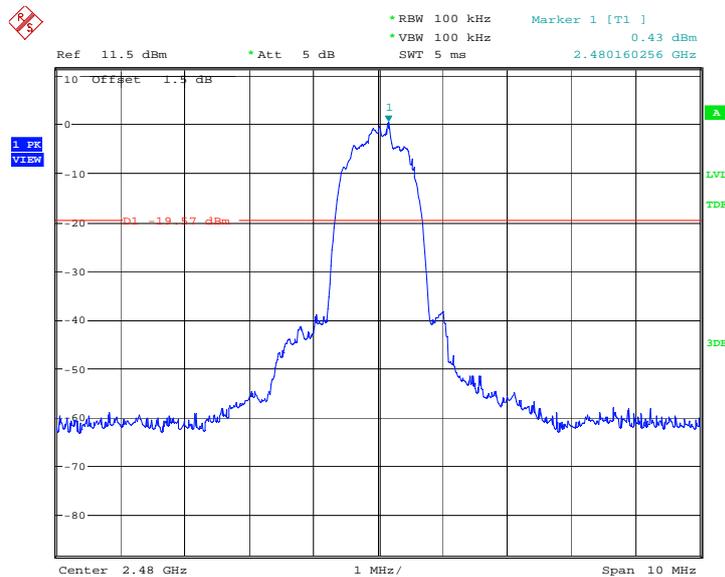
Date: 13.JUL.2012 03:39:57

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



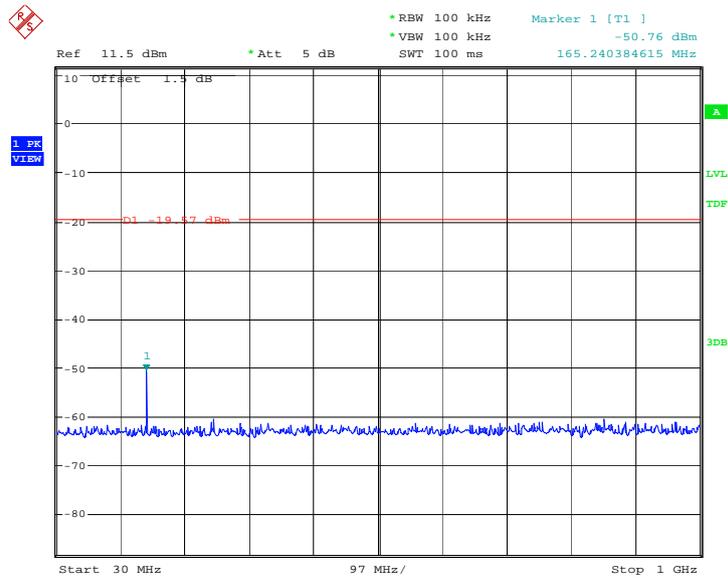
Date: 13.JUL.2012 03:40:14

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



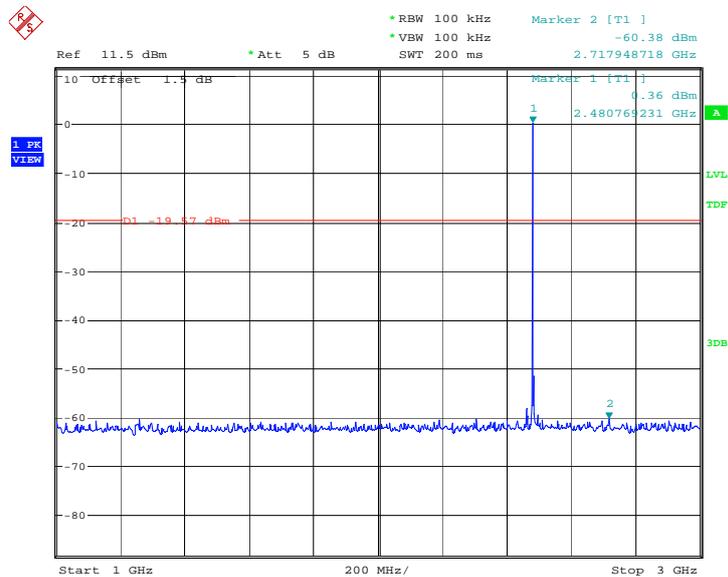
Date: 13.JUL.2012 03:40:30

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



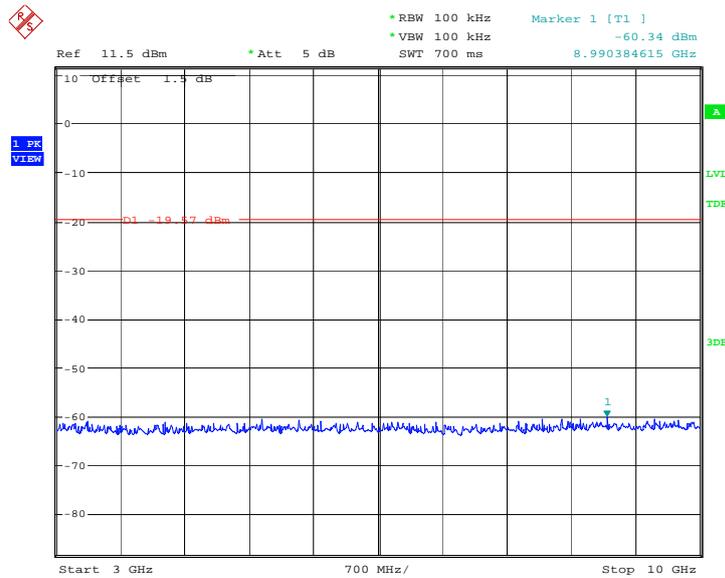
Date: 13.JUL.2012 03:40:46

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



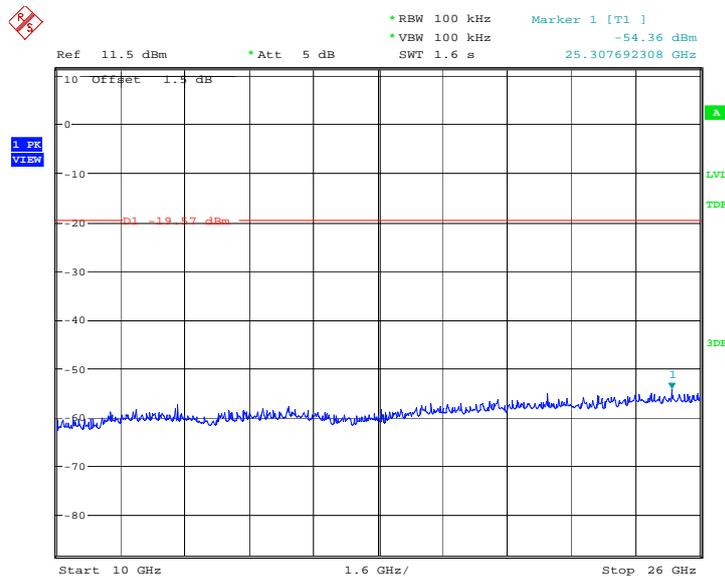
Date: 13.JUL.2012 03:41:17

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



Date: 13.JUL.2012 03:41:33

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



Date: 13.JUL.2012 03:41:49

Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 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 Public notice DA 00-705 and ANSI C63.4

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

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

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17518.500	43.06	17.5	25.59	V
17532.750	42.89	17.6	25.26	H
17963.250	42.79	17.5	25.32	V
17523.750	42.79	17.5	25.32	V
17493.750	42.74	17.7	24.99	H
17522.250	42.71	17.5	25.24	V

GFSK Ch 39

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17757.750	42.85	16.7	26.11	V
17529.750	42.80	17.6	25.17	H
17511.000	42.77	17.5	25.30	V
17531.250	42.65	17.6	25.02	V
17516.250	42.63	17.5	25.16	H
17990.250	42.60	17.5	25.05	V

GFSK Ch 78

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17535.000	42.98	17.6	25.35	V
17565.000	42.72	17.0	25.76	H
17529.750	42.69	17.6	25.06	V
17502.750	42.68	17.5	25.20	H
17514.000	42.66	17.5	25.19	V
17558.250	42.64	17.0	25.68	V

$\pi/4$ DQPSK Ch 0

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17535.750	42.89	17.6	25.26	V
17556.000	42.85	17.0	25.89	V
17523.000	42.82	17.5	25.35	H
17528.250	42.79	17.6	25.16	V
17530.500	42.79	17.6	25.16	V
17507.250	42.73	17.5	25.26	V

$\pi/4$ DQPSK Ch 39

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17514.750	42.94	17.5	25.47	V
17512.500	42.92	17.5	25.45	V
17506.500	42.86	17.5	25.39	V
17530.500	42.76	17.6	25.13	H
17526.750	42.76	17.6	25.13	V
17498.250	42.72	17.7	24.97	V

$\pi/4$ DQPSK Ch 78

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17534.250	42.92	17.6	25.28	V
17513.250	42.82	17.5	25.34	V
17538.750	42.81	17.6	25.18	H
17560.500	42.80	17.0	25.84	V
17515.500	42.76	17.5	25.29	H
17516.250	42.74	17.5	25.27	V

8DPSK Ch 0

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17532.750	42.85	17.6	25.21	V
17542.500	42.82	17.6	25.19	V
17507.250	42.78	17.5	25.31	V
17546.250	42.76	17.6	25.13	H
17531.250	42.76	17.6	25.13	V
17556.000	42.74	17.0	25.78	V

8DPSK Ch 39

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17519.250	42.87	17.5	25.39	V
17547.000	42.80	17.6	25.17	H
17542.500	42.77	17.6	25.13	V
17883.750	42.70	17.3	25.44	H
17500.500	42.68	17.5	25.21	V
17524.500	42.67	17.5	25.20	V

8DPSK Ch 78

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
17518.500	42.90	17.5	25.43	V
17494.500	42.80	17.7	25.06	V
17497.500	42.80	17.7	25.05	H
17796.750	42.68	16.5	26.17	V
17485.500	42.63	17.7	24.89	H
17499.000	42.63	17.7	24.88	V

Conclusion: PASS

Test graphs as below:

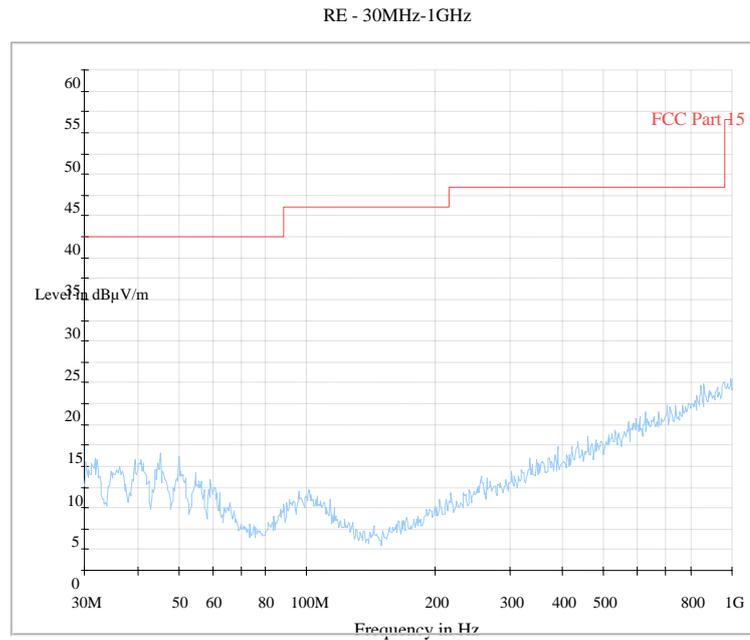


Fig.58. Radiated emission: GFSK, Channel 0, 30 MHz - 1 GHz

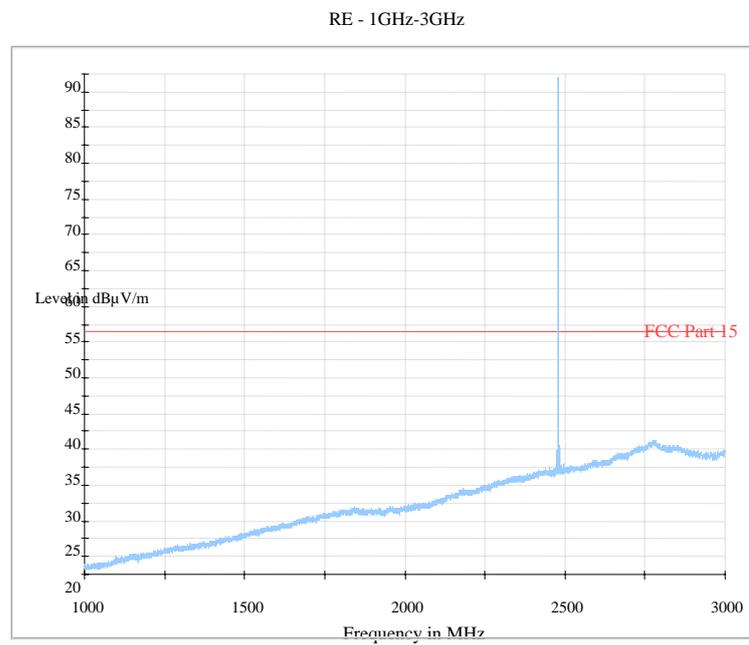


Fig.59. Radiated emission: GFSK, Channel 0, 1 GHz - 3 GHz

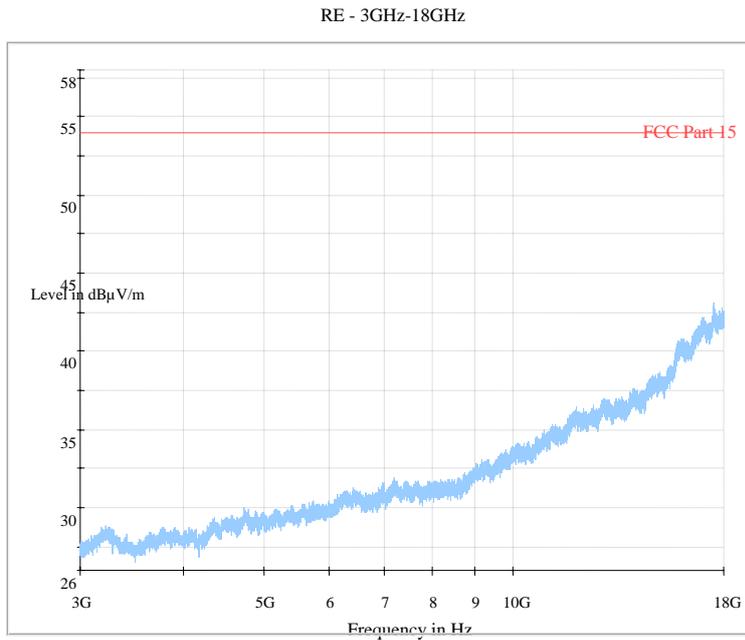


Fig.60. Radiated emission: GFSK, Channel 0, 3 GHz - 18 GHz

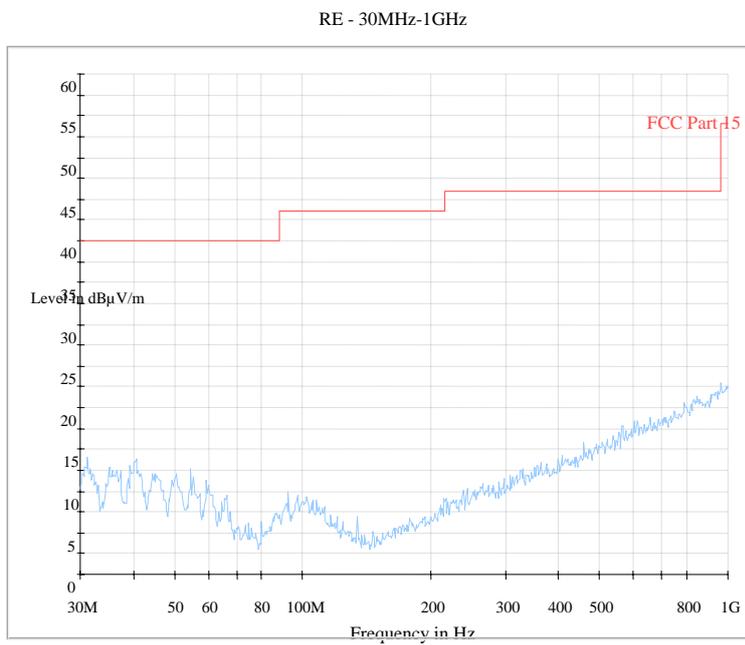


Fig.61. Radiated emission: GFSK, Channel 39, 30 MHz - 1 GHz

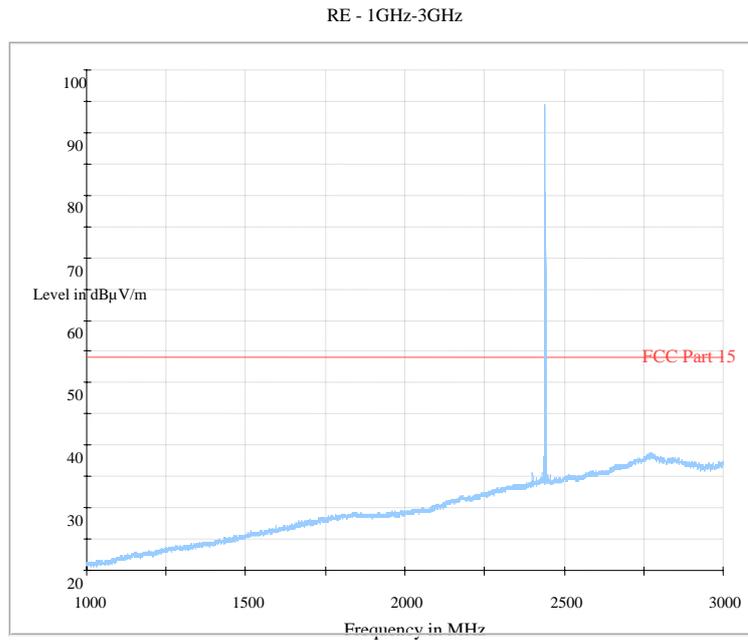


Fig.62. Radiated emission: GFSK, Channel 39, 1 GHz - 3 GHz

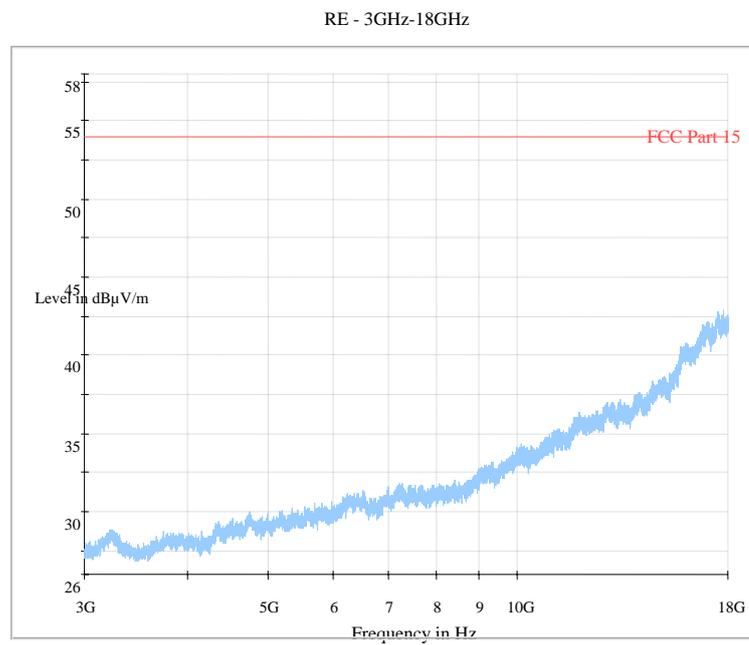


Fig.63. Radiated emission: GFSK, Channel 39, 3 GHz - 18 GHz

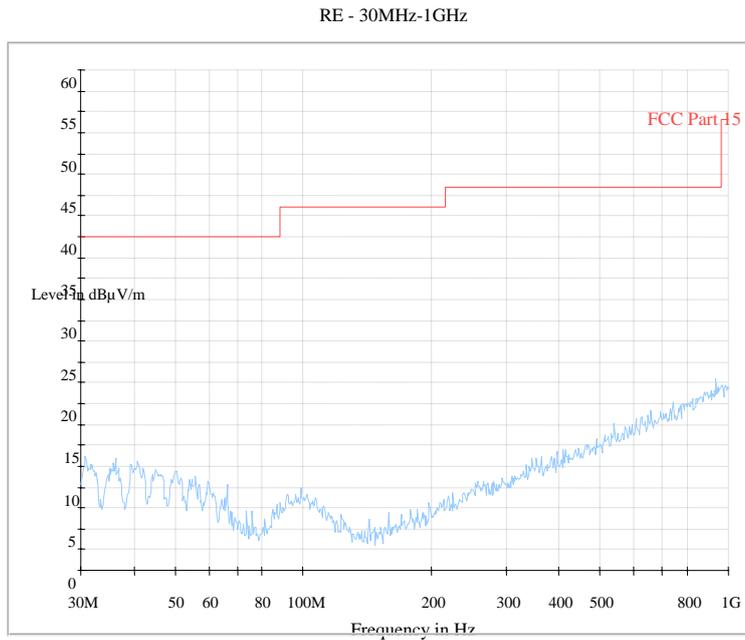


Fig.64. Radiated emission: GFSK, Channel 78, 30 MHz - 1 GHz

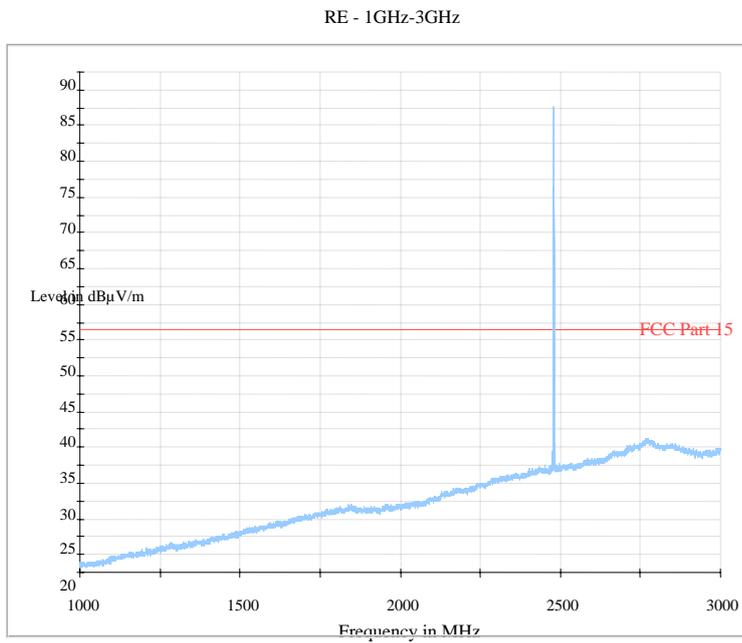


Fig.65. Fig.47 Radiated emission: GFSK, Channel 78, 1 GHz - 3 GHz

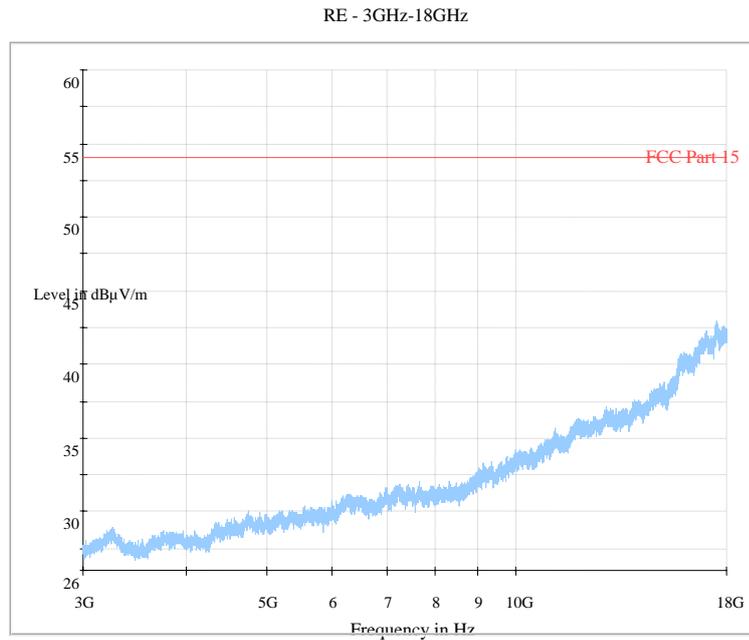


Fig.66. Radiated emission: GFSK, Channel 78, 3 GHz - 18 GHz

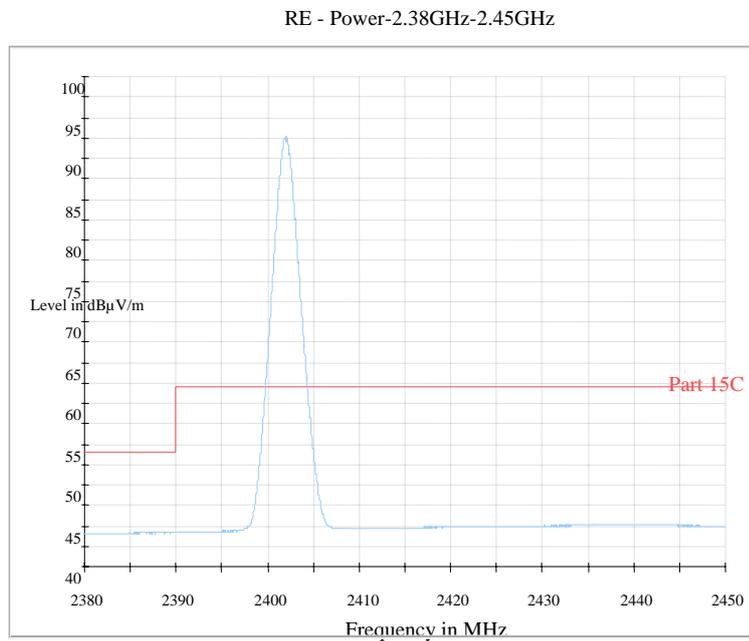


Fig.67. Radiated emission (Power): GFSK, low channel

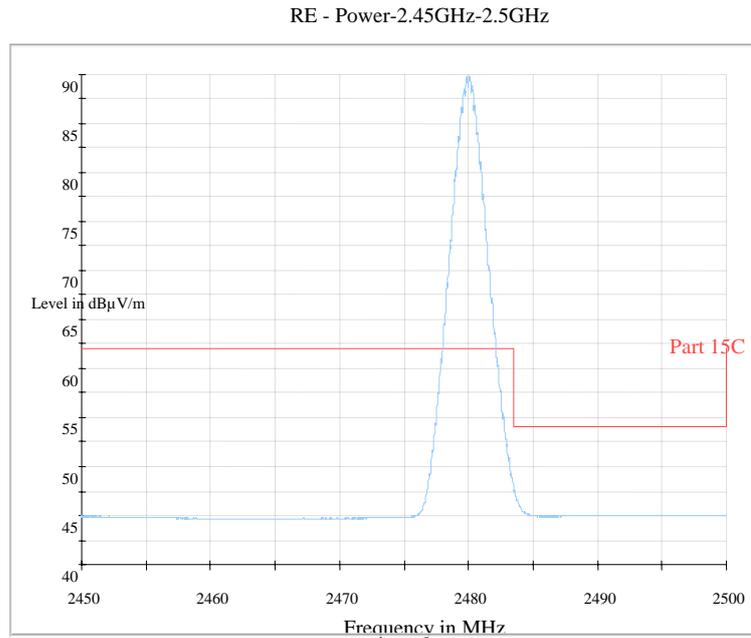


Fig.68. Radiated emission (Power) GFSK, high channel

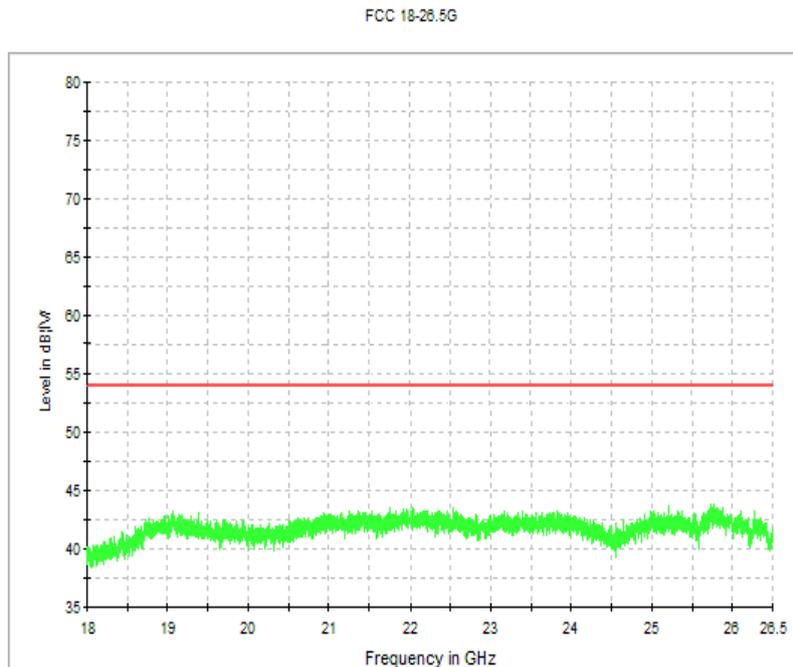


Fig.69. Radiated emission: GFSK, 18 GHz - 26 GHz

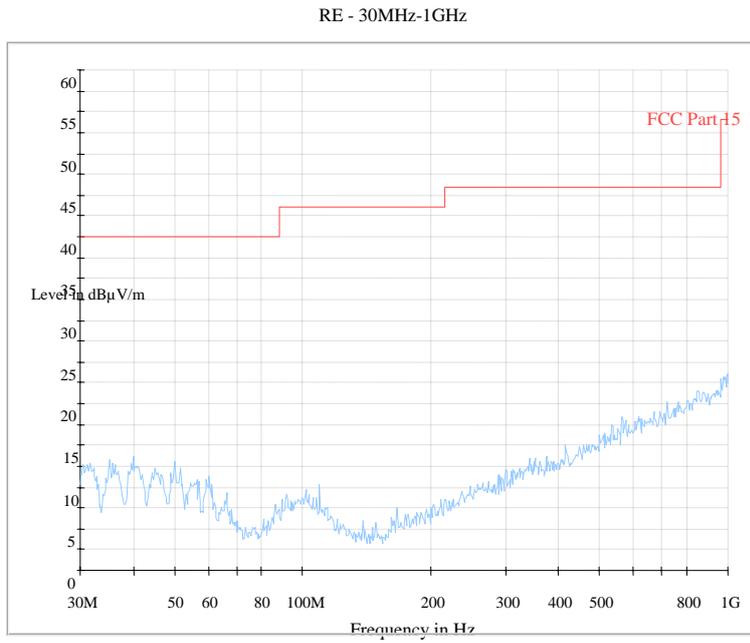


Fig.70. Radiated emission: $\pi/4$ DQPSK, Channel 0, 30 MHz - 1 GHz

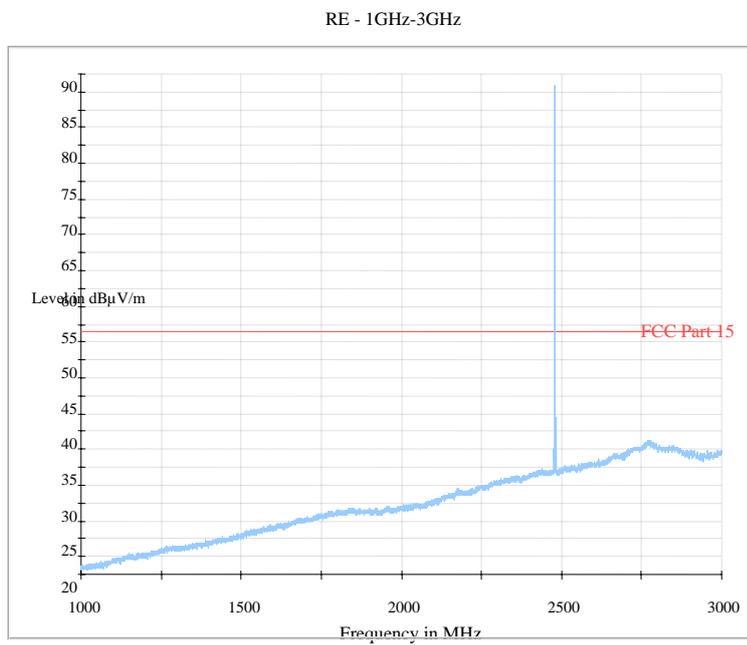


Fig.71. Radiated emission: $\pi/4$ DQPSK, Channel 0, 1 GHz - 3 GHz

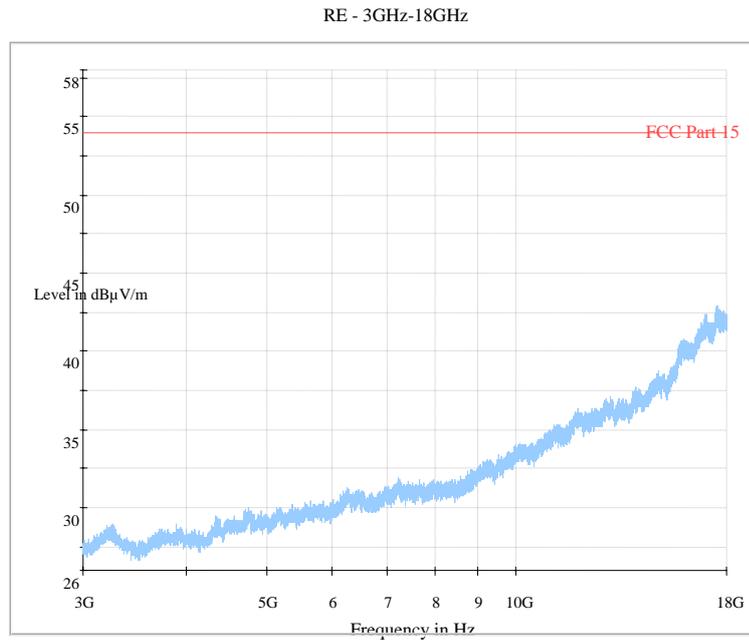


Fig.72. Radiated emission: $\pi/4$ DQPSK, Channel 0, 3 GHz - 18 GHz

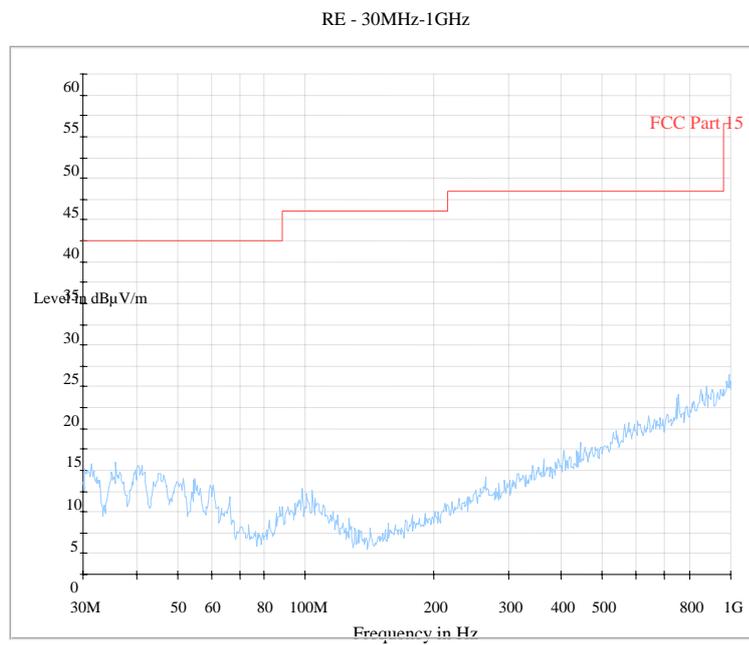


Fig.73. Radiated emission: $\pi/4$ DQPSK, Channel 39, 30 MHz - 1 GHz

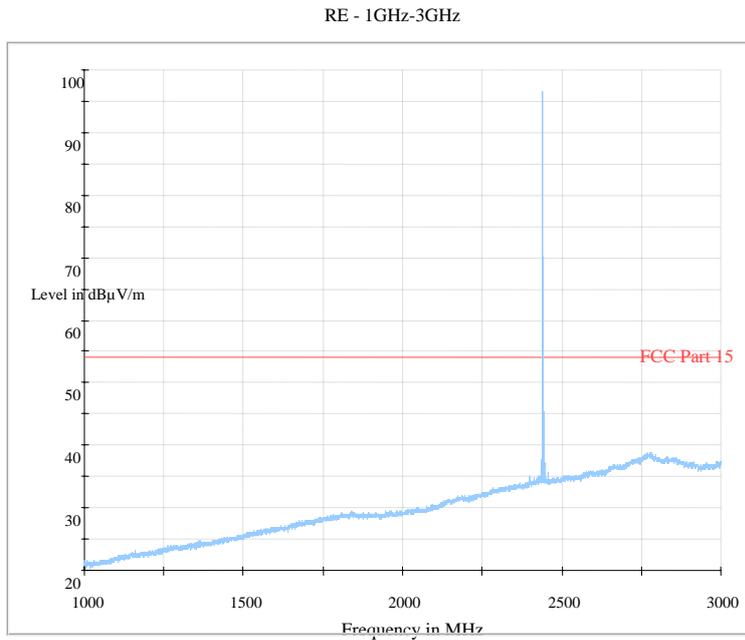


Fig.74. Radiated emission: $\pi/4$ DQPSK, Channel 39, 1 GHz - 3 GHz

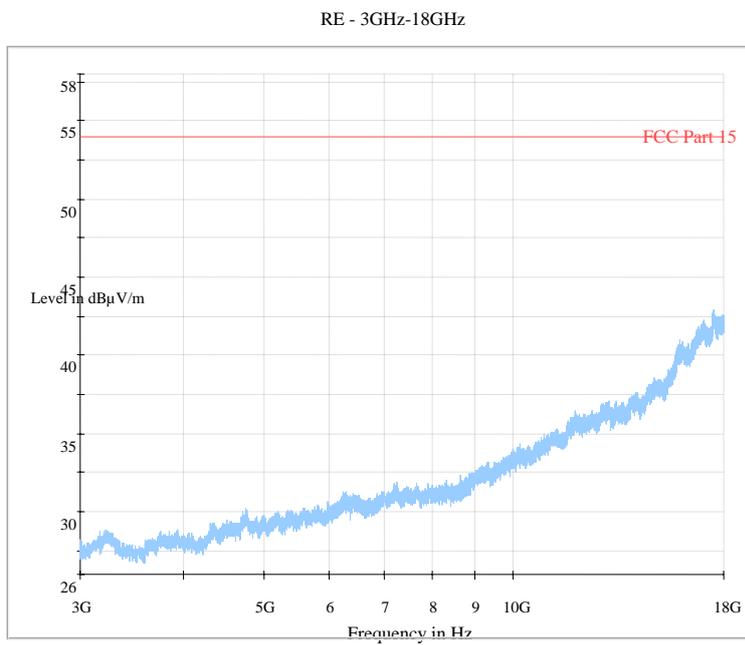


Fig.75. Radiated emission: $\pi/4$ DQPSK, Channel 39, 3 GHz - 18 GHz

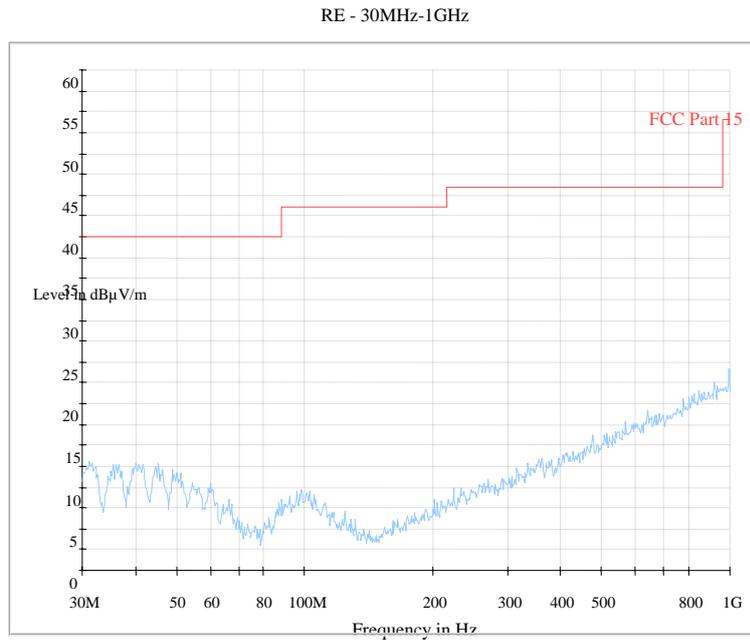


Fig.76. Radiated emission: $\pi/4$ DQPSK, Channel 78, 30 MHz - 1 GHz

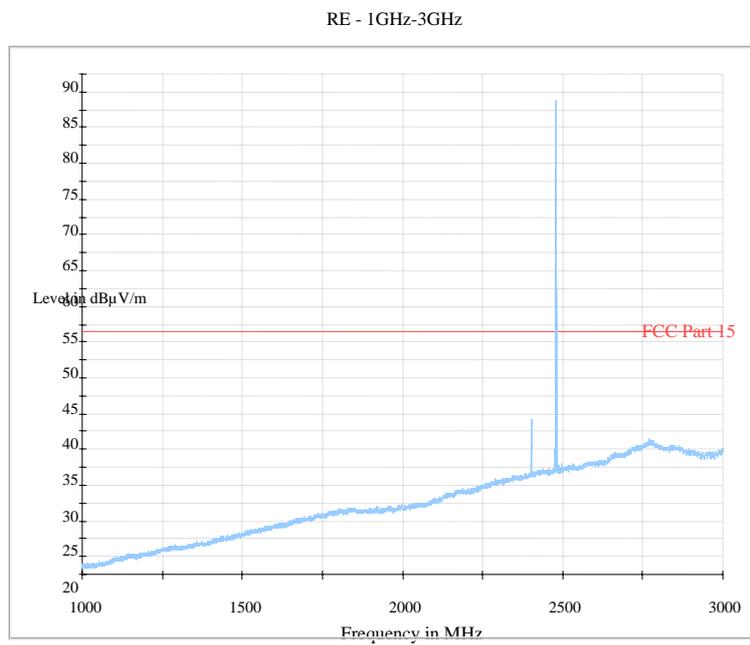


Fig.77. Radiated emission: $\pi/4$ DQPSK, Channel 78, 1 GHz - 3 GHz

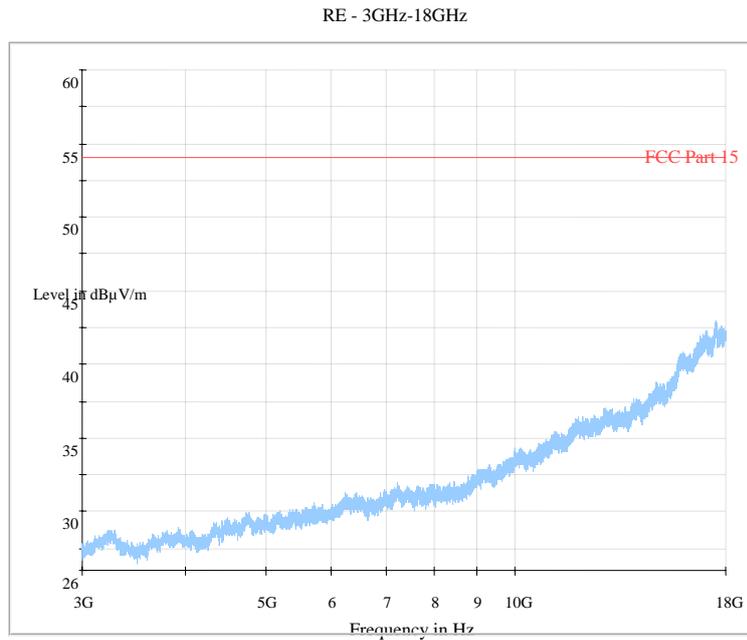


Fig.78. Radiated emission: $\pi/4$ DQPSK, Channel 78, 3 GHz - 18 GHz

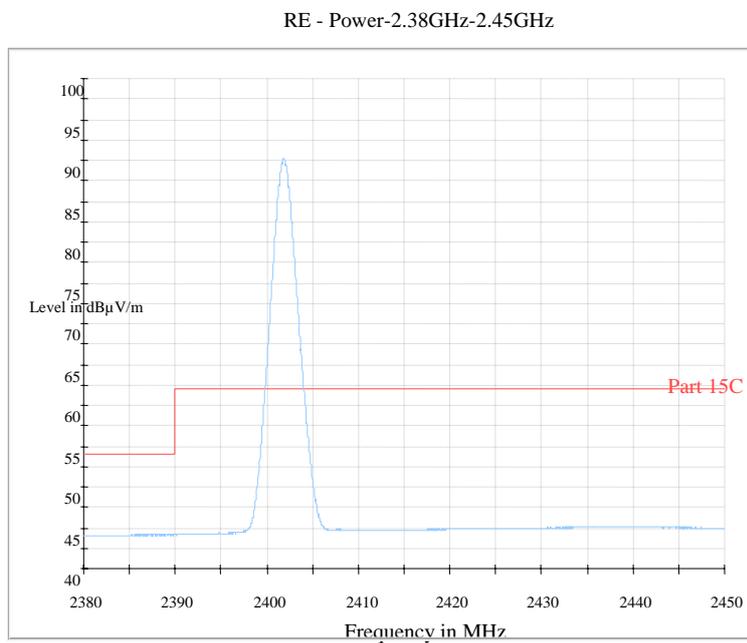


Fig.79. Radiated emission (Power): $\pi/4$ DQPSK, low channel

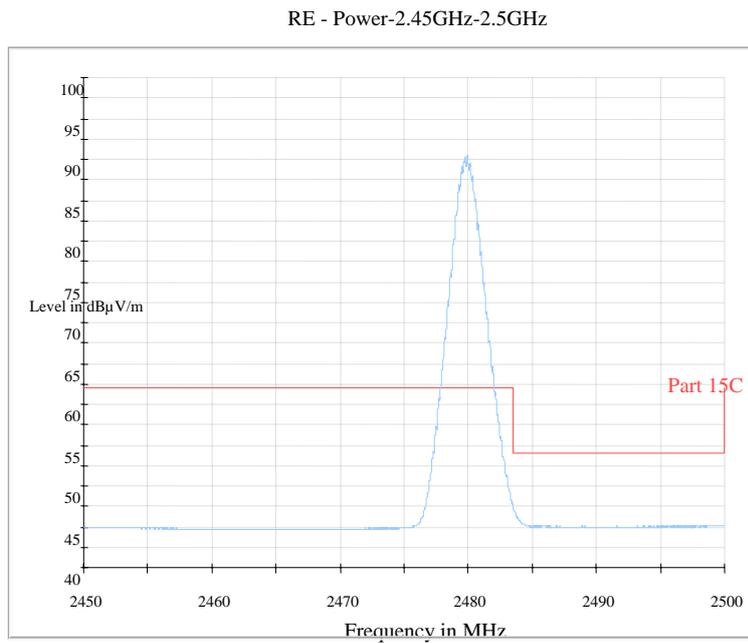


Fig.80. Radiated emission (Power): $\pi/4$ DQPSK, high channel

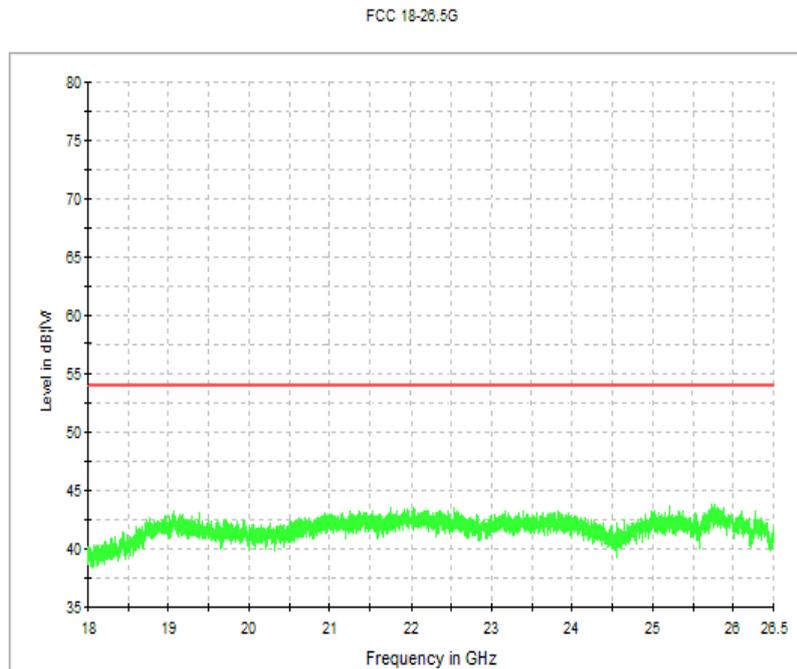


Fig.81. Radiated emission: $\pi/4$ DQPSK, 18 GHz - 26 GHz

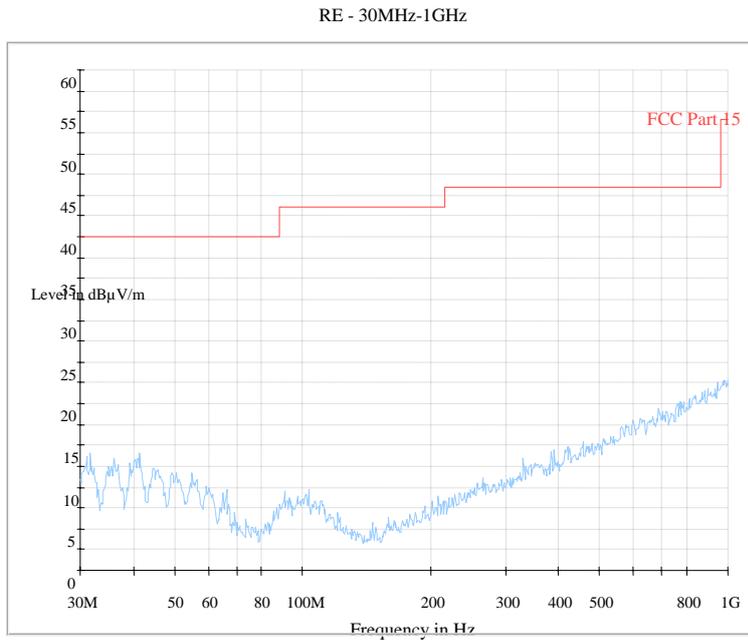


Fig.82. Radiated emission: 8DPSK, Channel 0, 30 MHz - 1 GHz

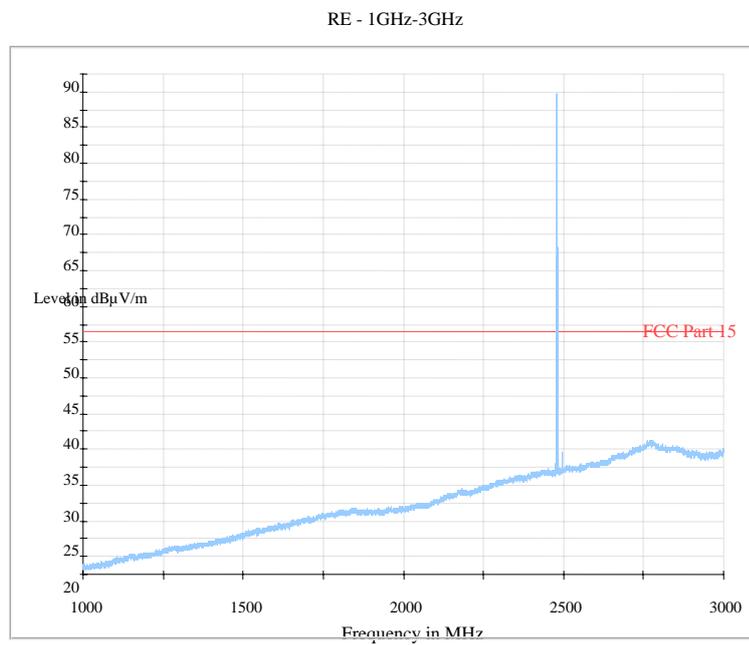


Fig.83. Radiated emission: 8DPSK, Channel 0, 1 GHz - 3 GHz

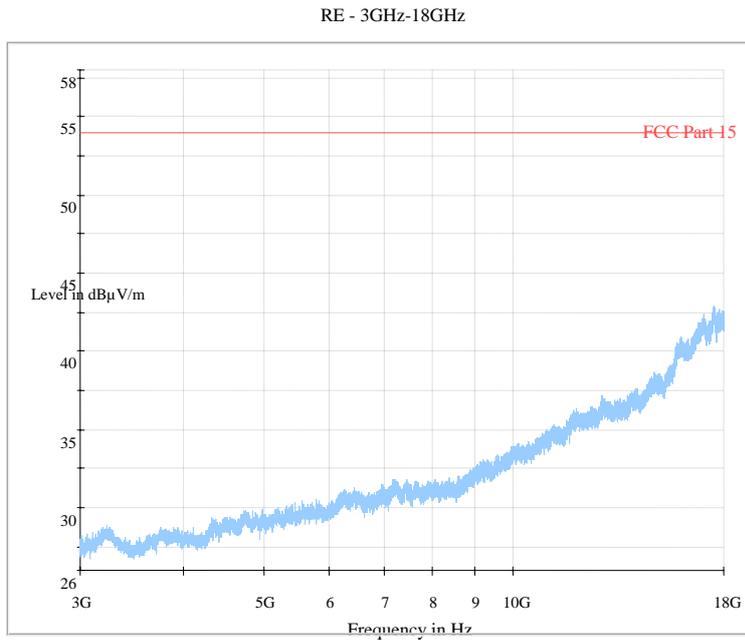


Fig.84. Radiated emission: 8DPSK, Channel 0, 3 GHz - 18 GHz

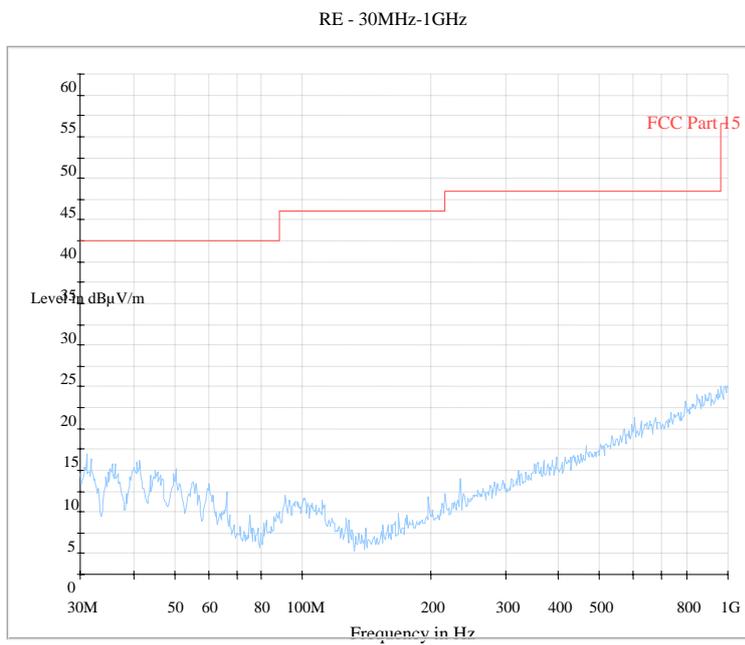


Fig.85. Radiated emission: 8DPSK, Channel 39, 30 MHz - 1 GHz

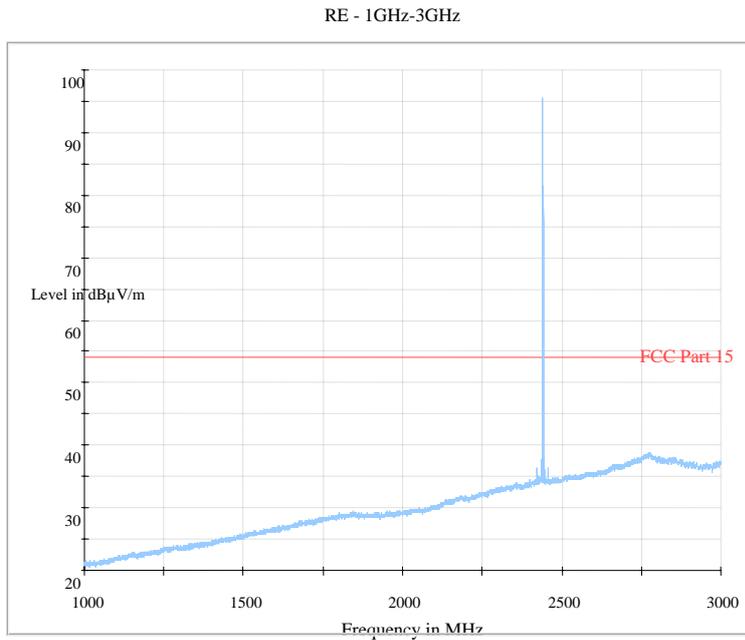


Fig.86. Radiated emission: 8DPSK, Channel 39, 1 GHz - 3 GHz

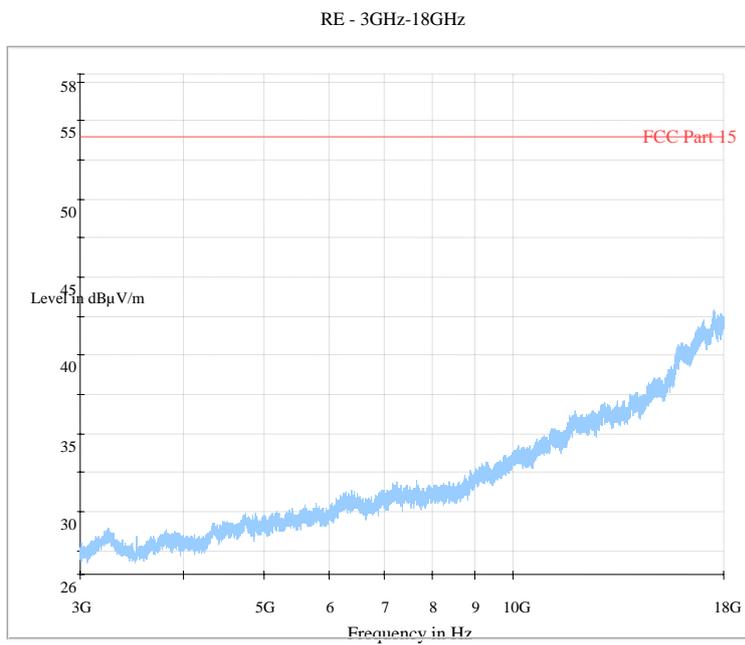


Fig.87. Radiated emission: 8DPSK, Channel 39, 3 GHz - 18 GHz

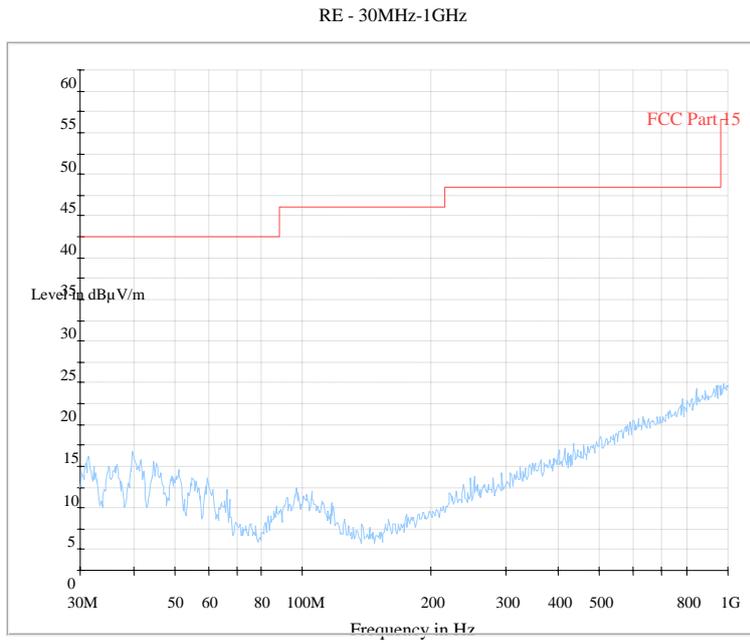


Fig.88. Radiated emission: 8DPSK, Channel 78, 30 MHz - 1 GHz

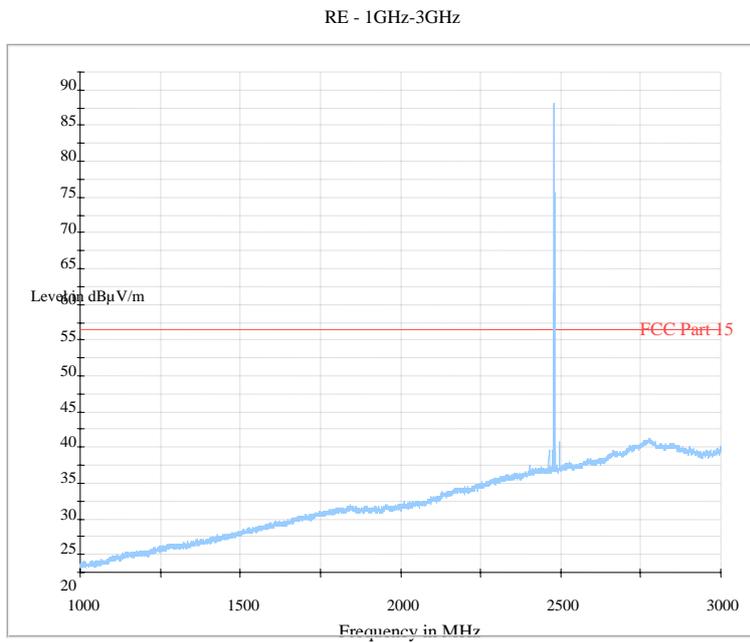


Fig.89. Radiated emission: 8DPSK, Channel 78, 1 GHz - 3 GHz

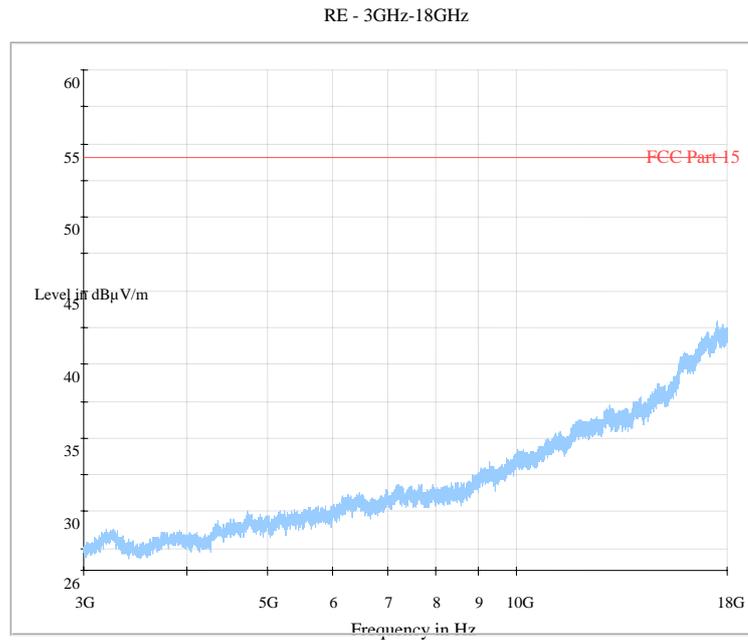


Fig.90. Radiated emission: 8DPSK, Channel 78, 3 GHz - 18 GHz

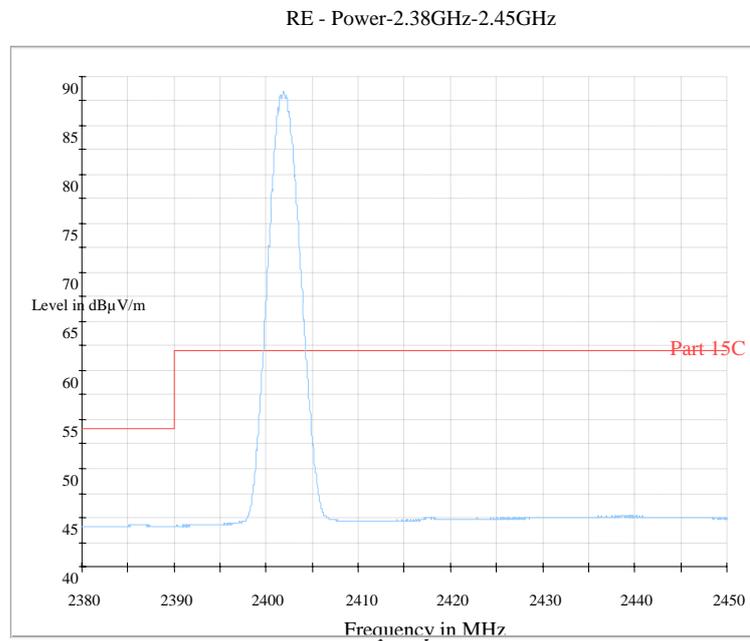


Fig.91. Radiated emission (Power): 8DPSK, low channel

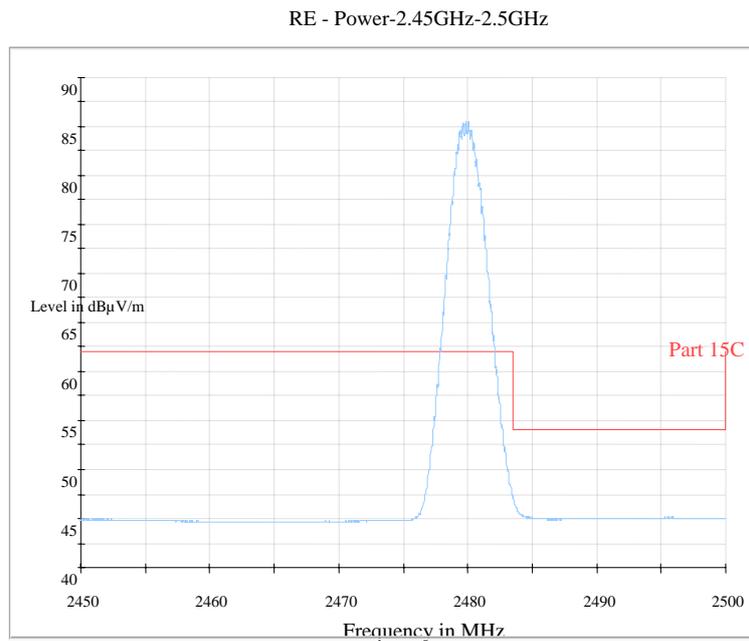


Fig.92. Radiated emission (Power): 8DPSK, high channel

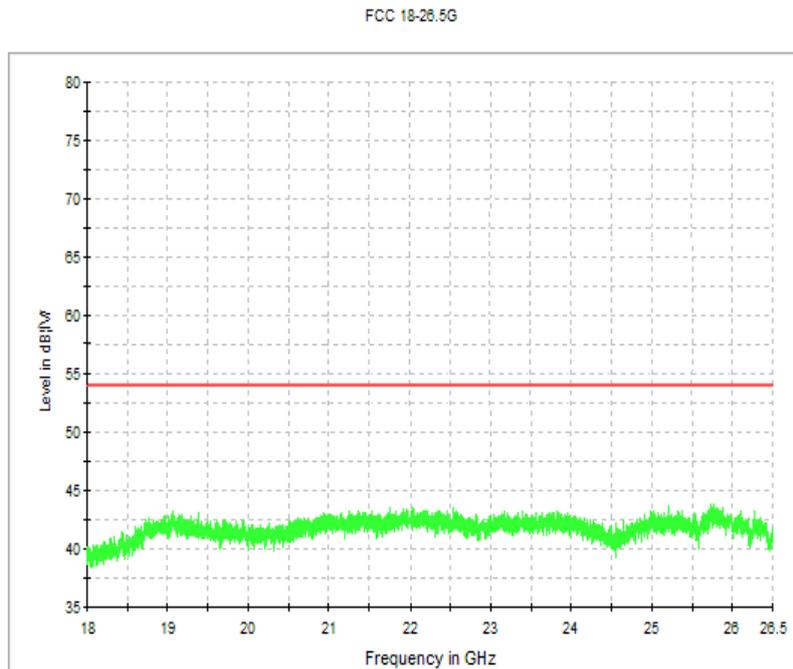


Fig.93. Radiated emission: 8DPSK, 18 GHz - 26 GHz

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 Public notice DA 00-705 and ANSI C63.4

Measurement Result:

For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.94	106.25	P
		Fig.95		
	DH3	Fig.96	155.75	P
		Fig.97		
	DH5	Fig.98	176.78	P
		Fig.99		

For $\pi/4$ DQPSK

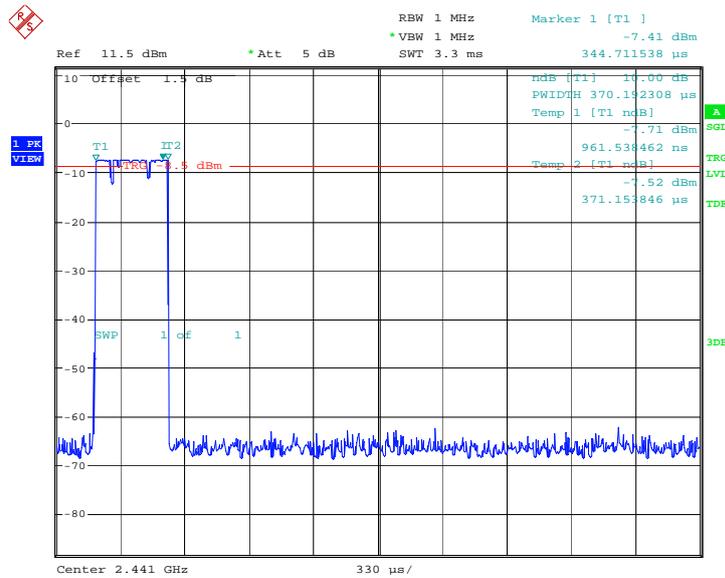
Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.100	111.18	P
		Fig.101		
	DH3	Fig.102	170.50	P
		Fig.103		
	DH5	Fig.104	197.07	P
		Fig.105		

For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.106	110.41	P
		Fig.107		
	DH3	Fig.108	187.50	P
		Fig.109		
	DH5	Fig.110	162.59	P
		Fig.111		

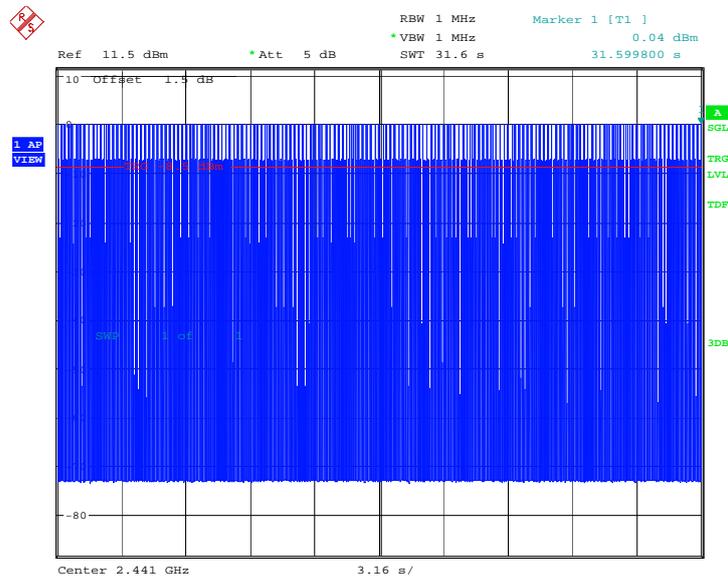
Conclusion: PASS

Test graphs as below:



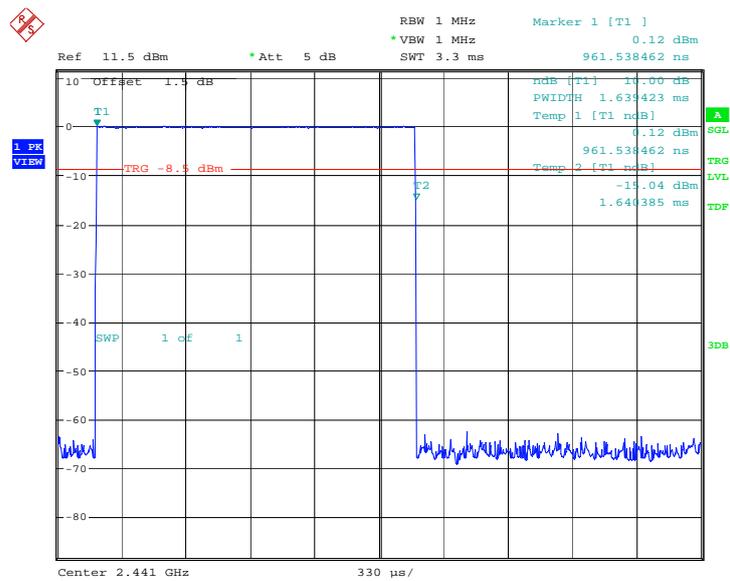
Date: 13.JUL.2012 02:59:13

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



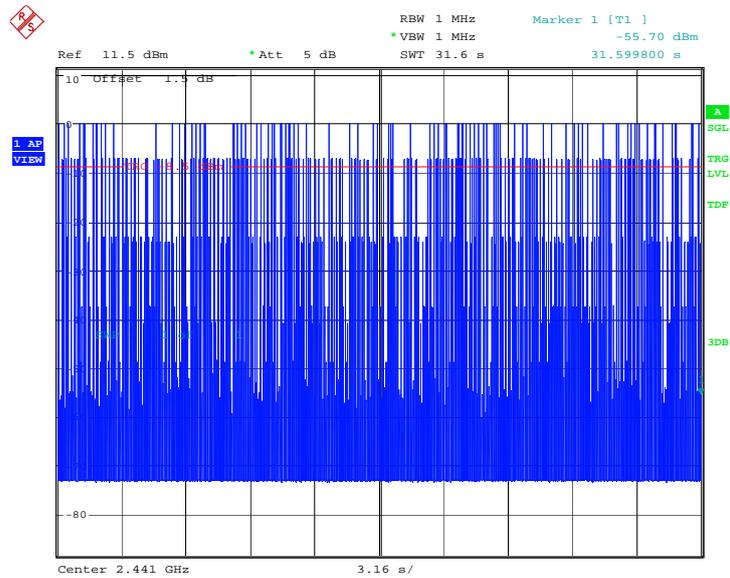
Date: 13.JUL.2012 02:59:01

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



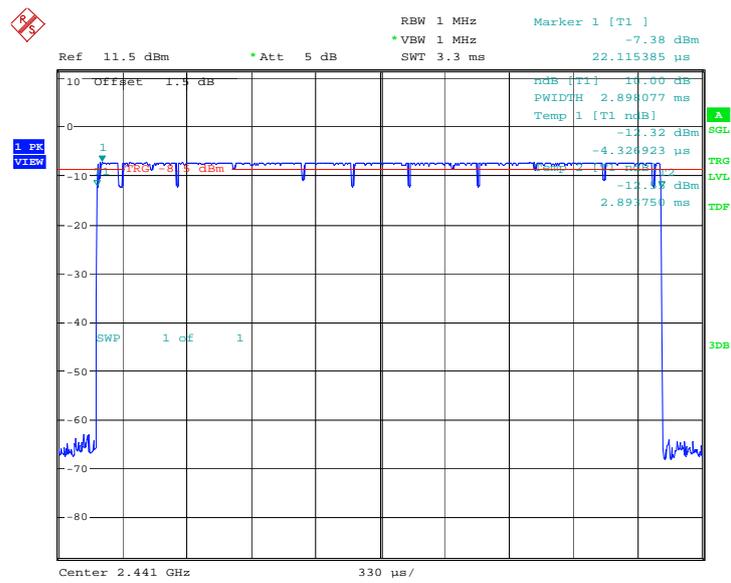
Date: 13.JUL.2012 03:00:32

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



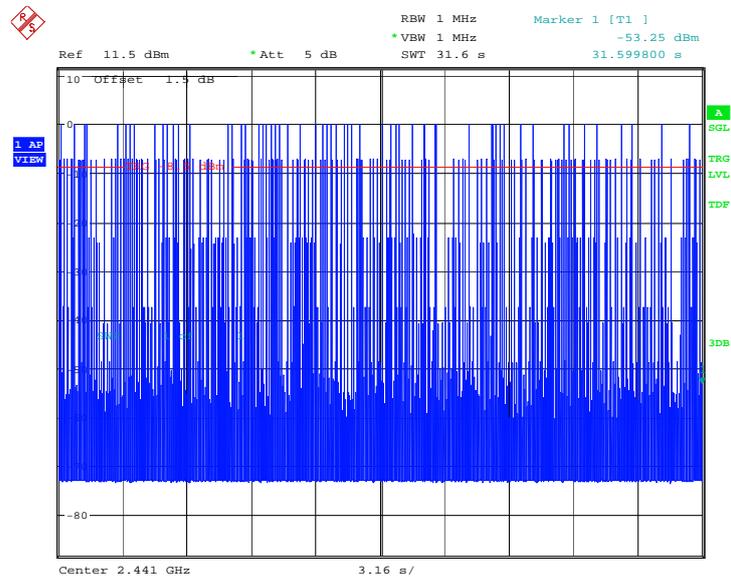
Date: 13.JUL.2012 03:00:20

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



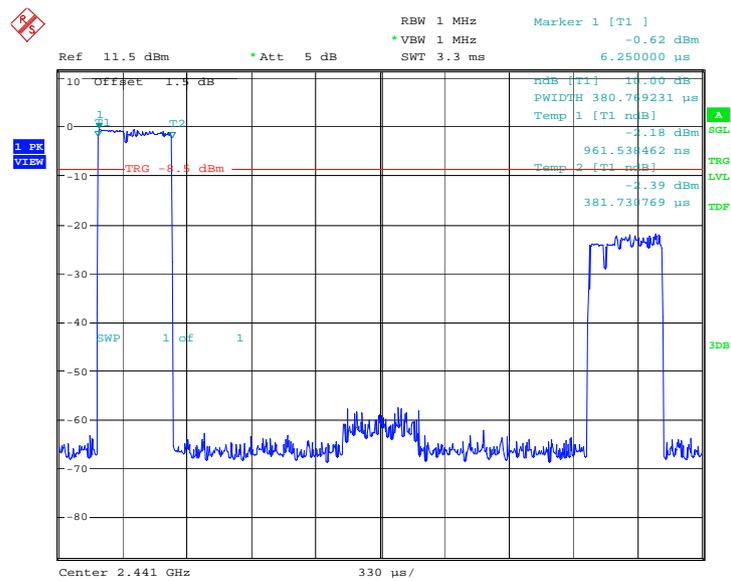
Date: 13.JUL.2012 03:01:49

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



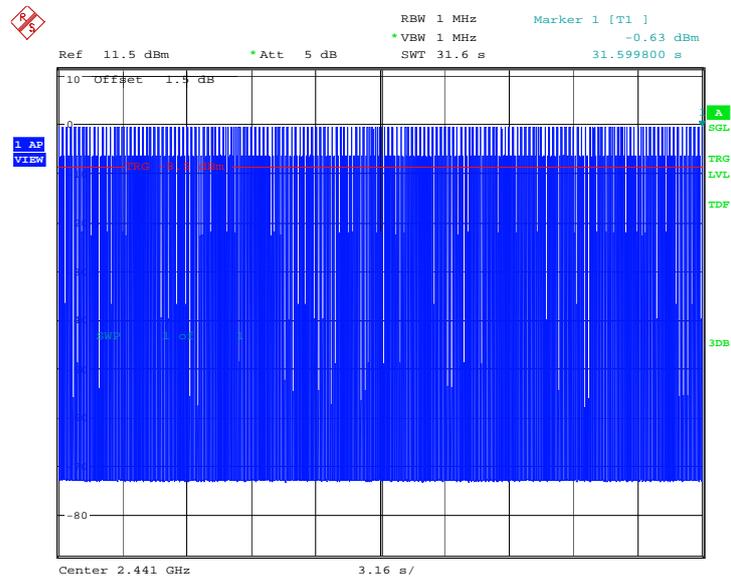
Date: 13.JUL.2012 03:01:37

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



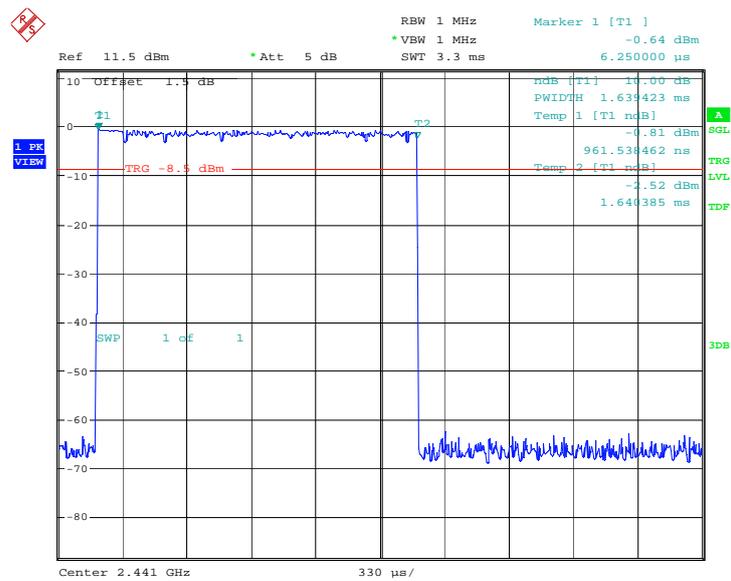
Date: 13.JUL.2012 03:21:15

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



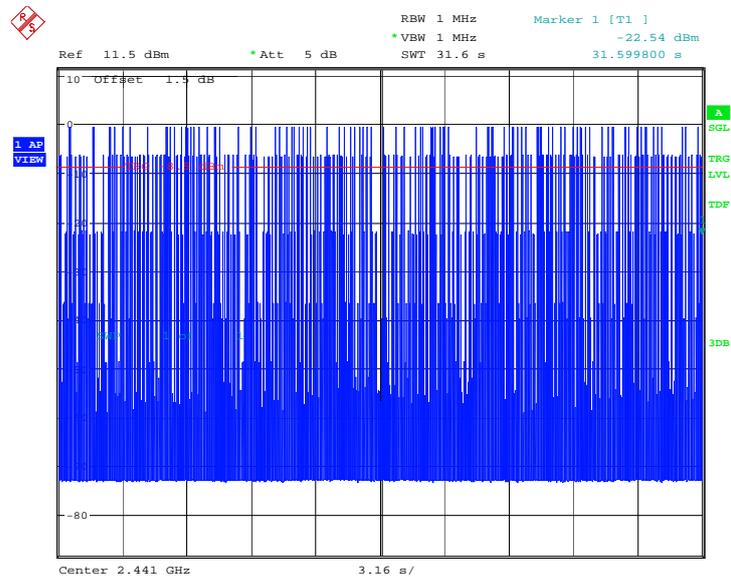
Date: 13.JUL.2012 03:21:03

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



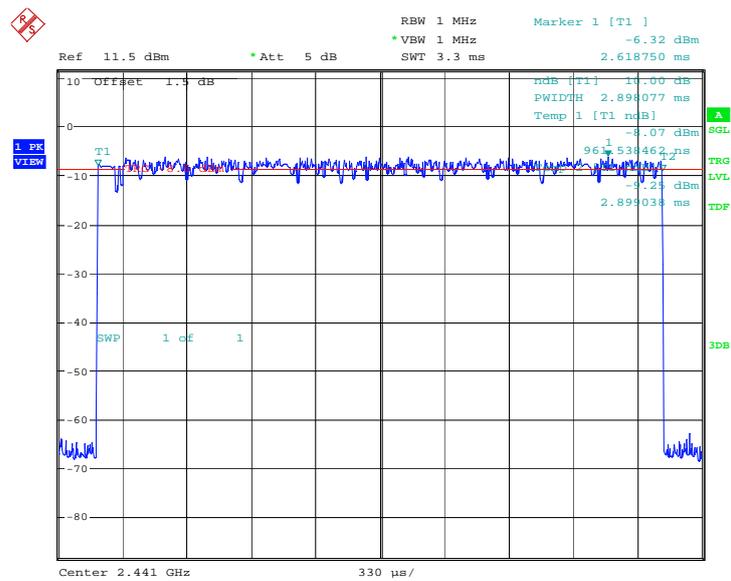
Date: 13.JUL.2012 03:22:31

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



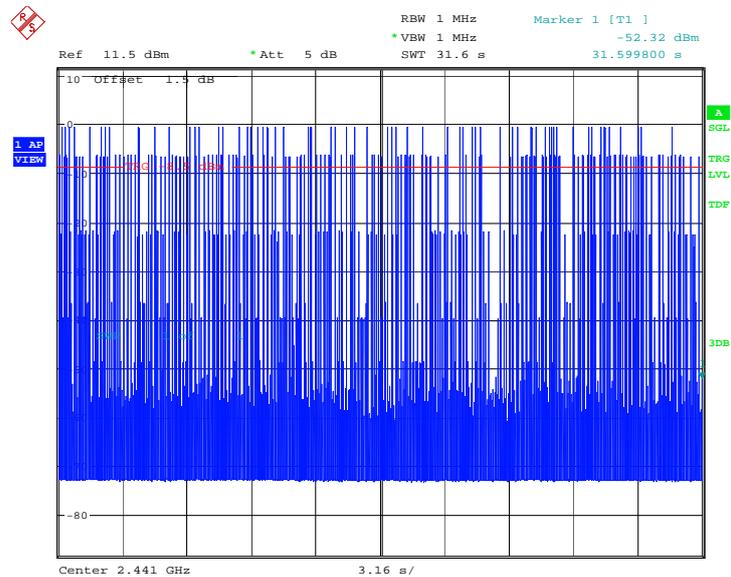
Date: 13.JUL.2012 03:22:19

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



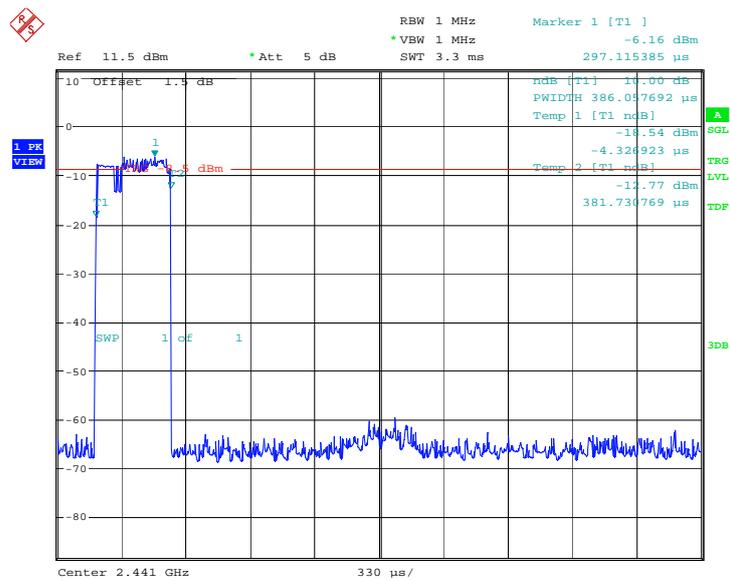
Date: 13.JUL.2012 03:23:49

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



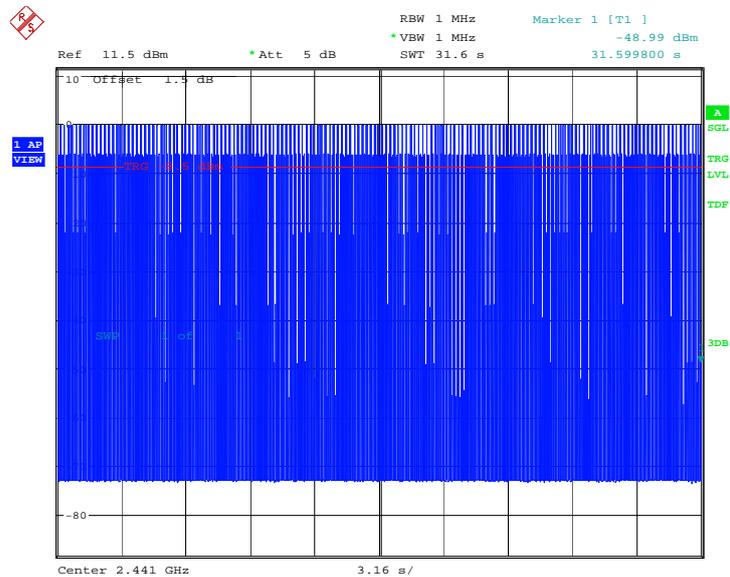
Date: 13.JUL.2012 03:23:37

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



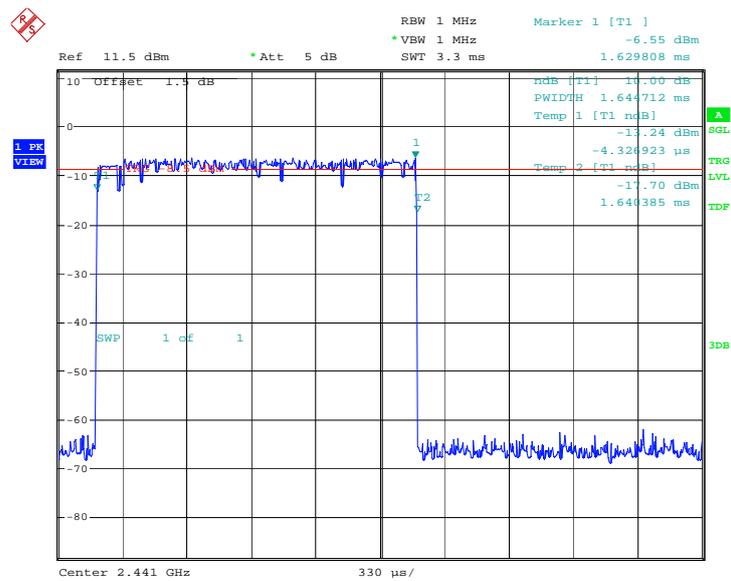
Date: 13.JUL.2012 03:43:14

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



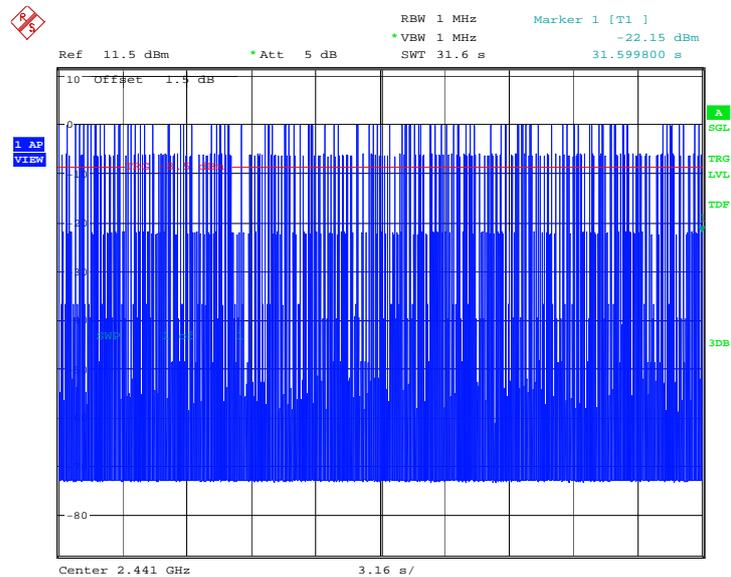
Date: 13.JUL.2012 03:43:02

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



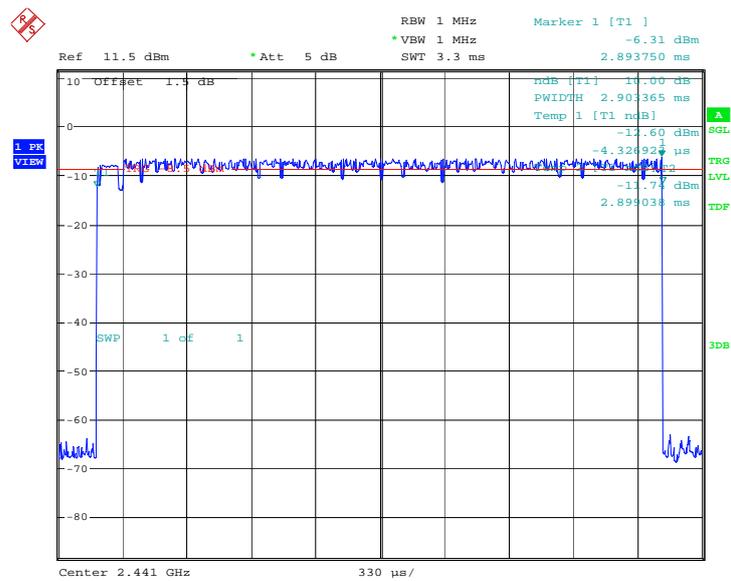
Date: 13.JUL.2012 03:44:33

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



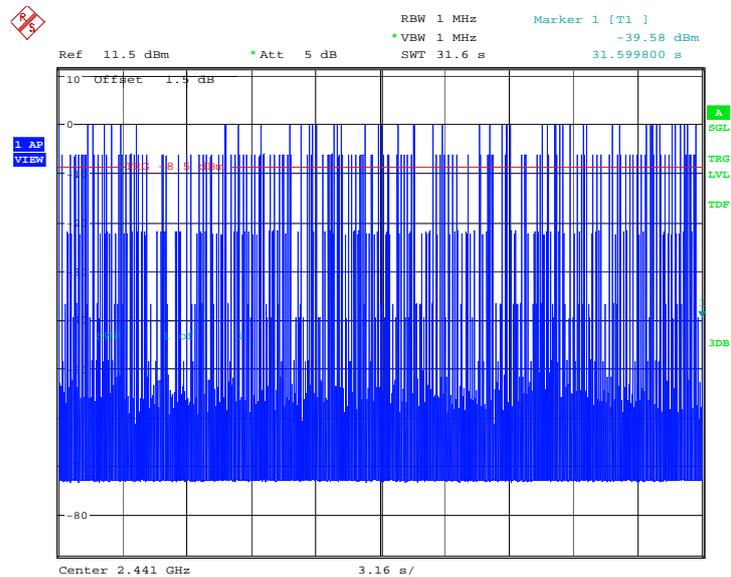
Date: 13.JUL.2012 03:44:21

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



Date: 13.JUL.2012 03:45:51

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



Date: 13.JUL.2012 03:45:39

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 Public notice DA 00-705 and ANSI C63.4

* 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	865.38	NA
39	Fig.113	870.19	NA
78	Fig.114	865.38	NA

For $\pi/4$ DQPSK

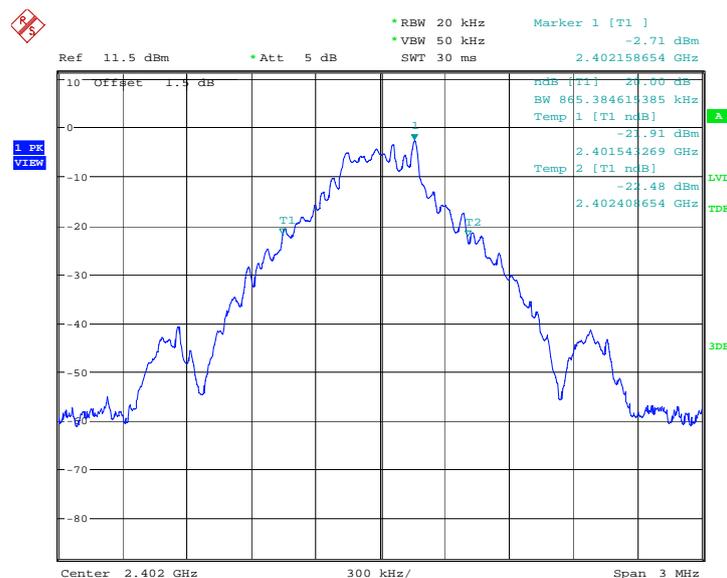
Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.115	1259.62	NA
39	Fig.116	1254.81	NA
78	Fig.117	1269.23	NA

For 8DPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.118	1269.23	NA
39	Fig.119	1211.54	NA
78	Fig.120	1264.42	NA

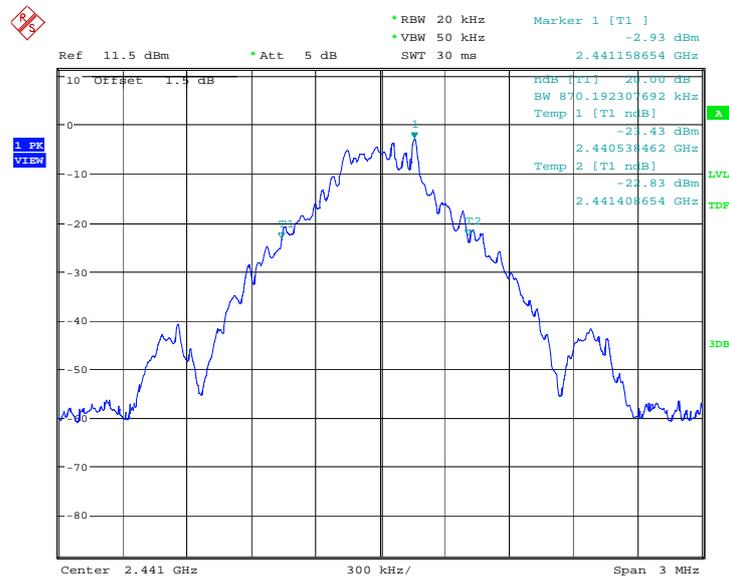
Conclusion: NA

Test graphs as below:



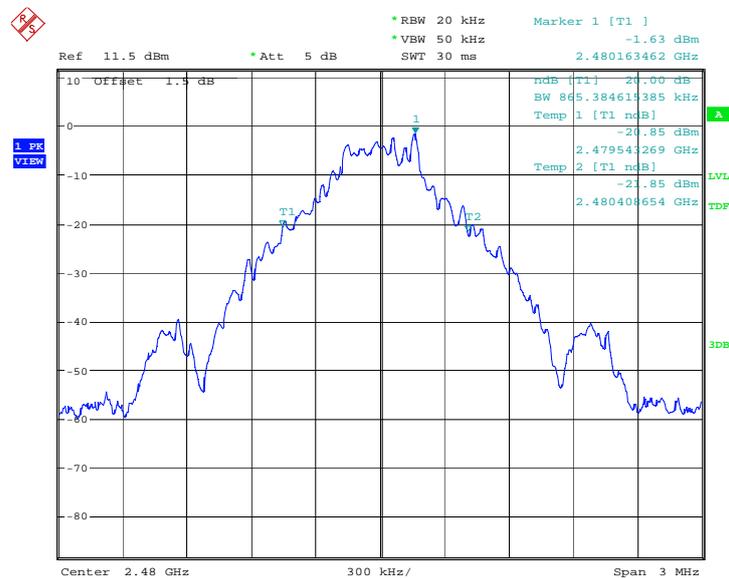
Date: 13.JUL.2012 03:02:23

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



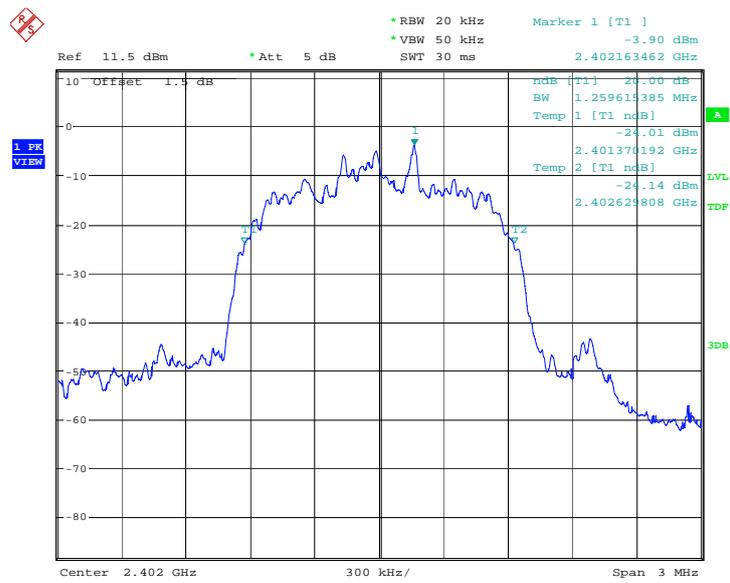
Date: 13.JUL.2012 03:02:55

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



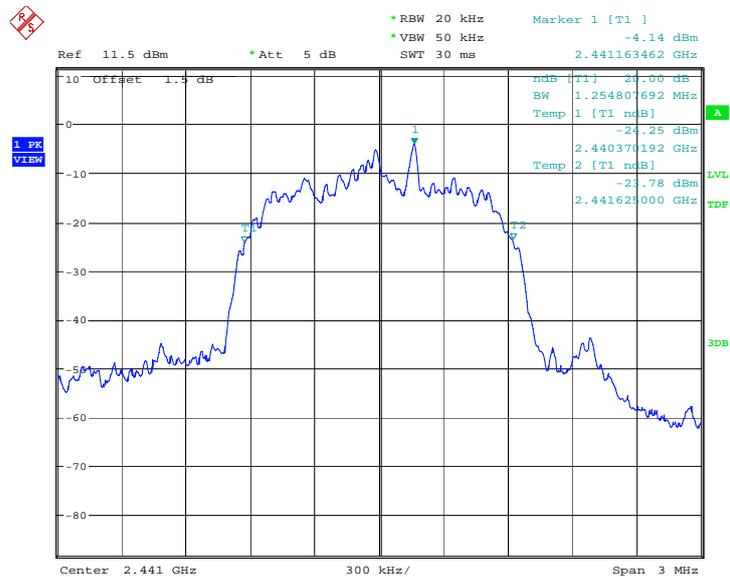
Date: 13.JUL.2012 03:03:27

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



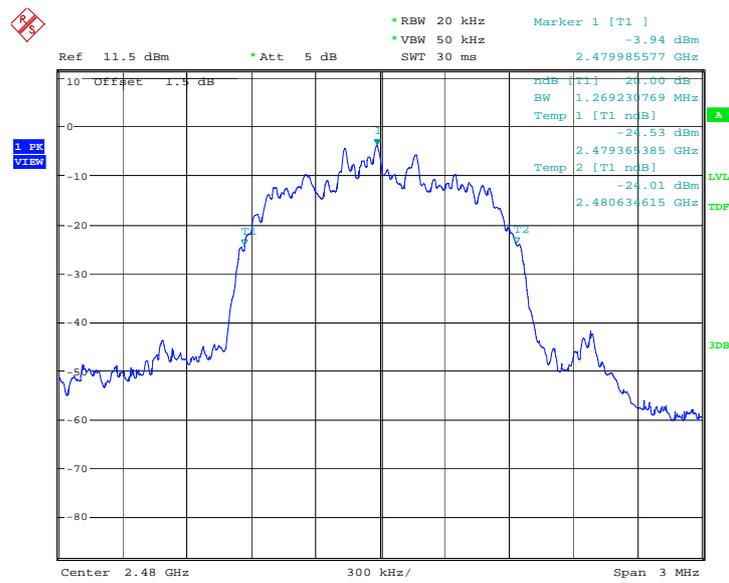
Date: 13.JUL.2012 03:24:22

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



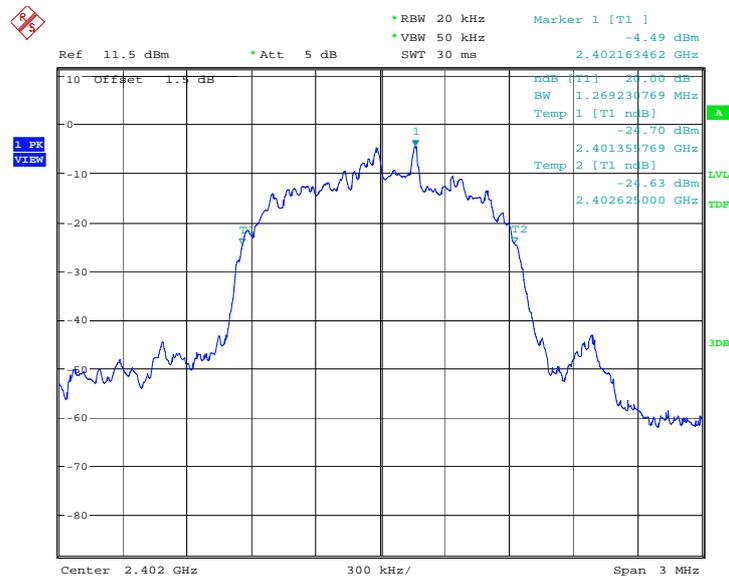
Date: 13.JUL.2012 03:24:54

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



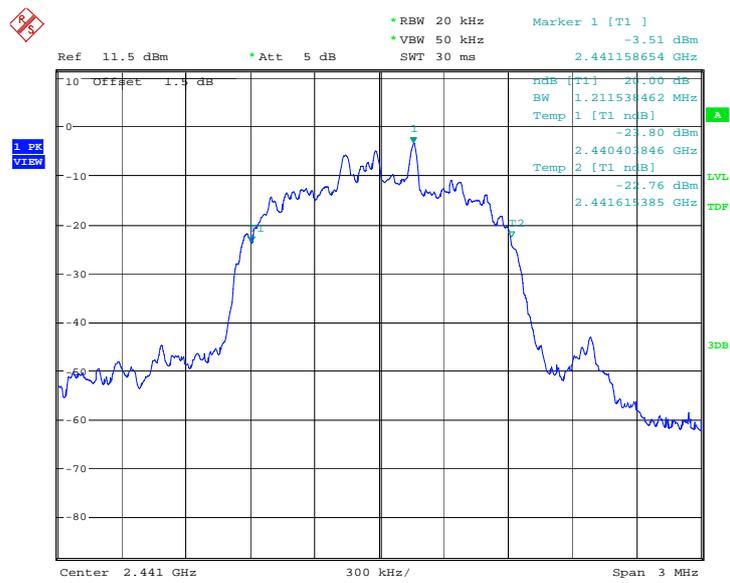
Date: 13.JUL.2012 03:25:26

Fig.117. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 78



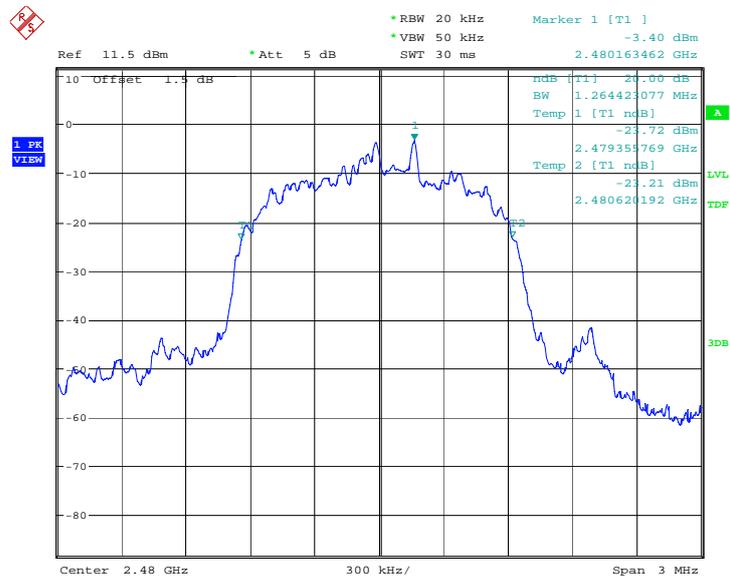
Date: 13.JUL.2012 03:46:25

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



Date: 13.JUL.2012 03:46:56

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



Date: 13.JUL.2012 03:47:28

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 Public notice DA 00-705 and ANSI C63.4

* 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

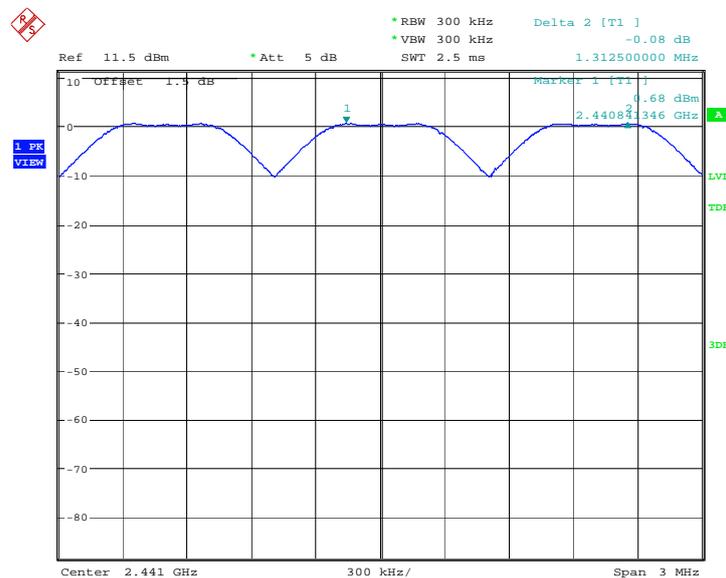
Channel	Carrier frequency separation (kHz)	Conclusion
39	Fig.122	P

For 8DPSK

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

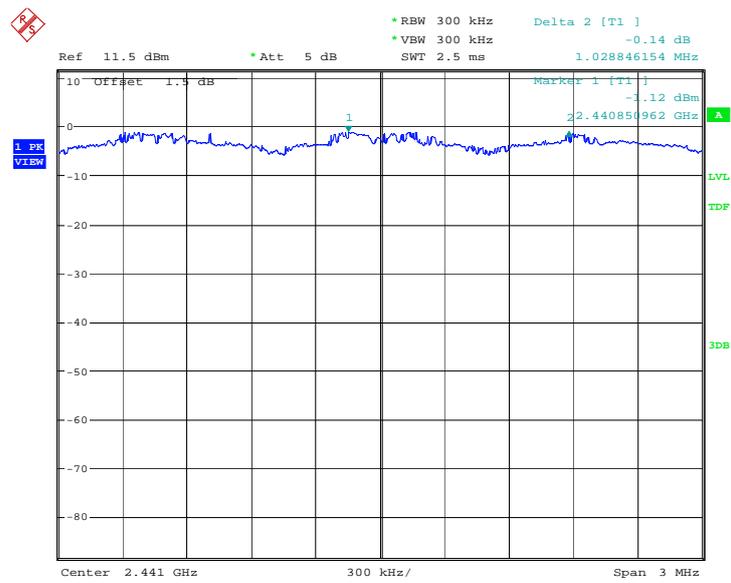
Conclusion: PASS

Test graphs as below:



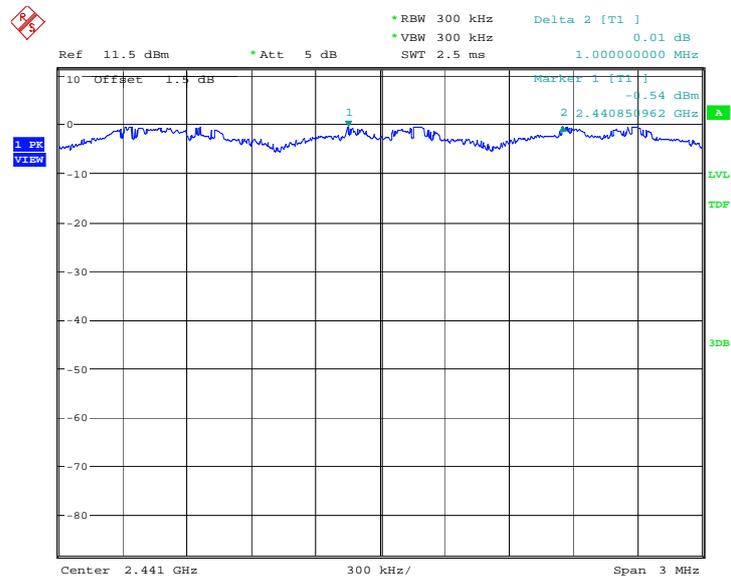
Date: 13.JUL.2012 03:56:20

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



Date: 13.JUL.2012 04:39:52

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



Date: 13.JUL.2012 03:49:33

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 Public notice DA 00-705 and ANSI C63.4

Measurement Result:

For GFSK

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

For $\pi/4$ DQPSK

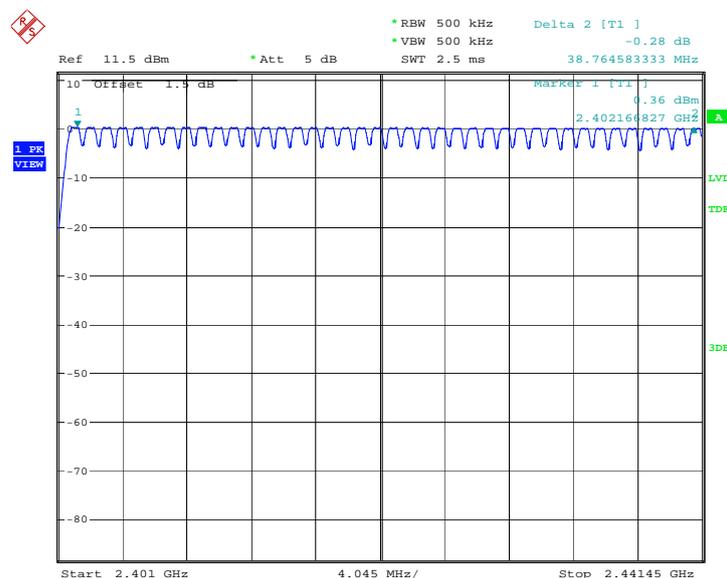
Channel	Number of hopping channels	Conclusion
0~39	Fig.126	P
40~78	Fig.127	

For 8DPSK

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

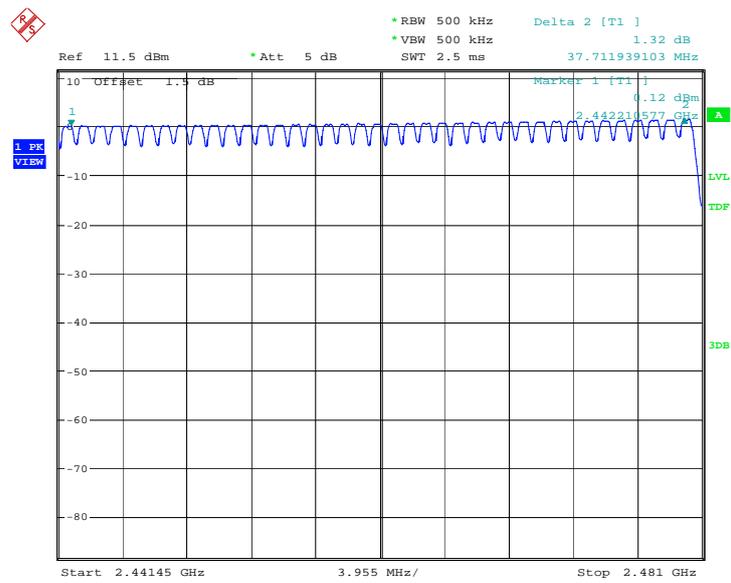
Conclusion: PASS

Test graphs as below:



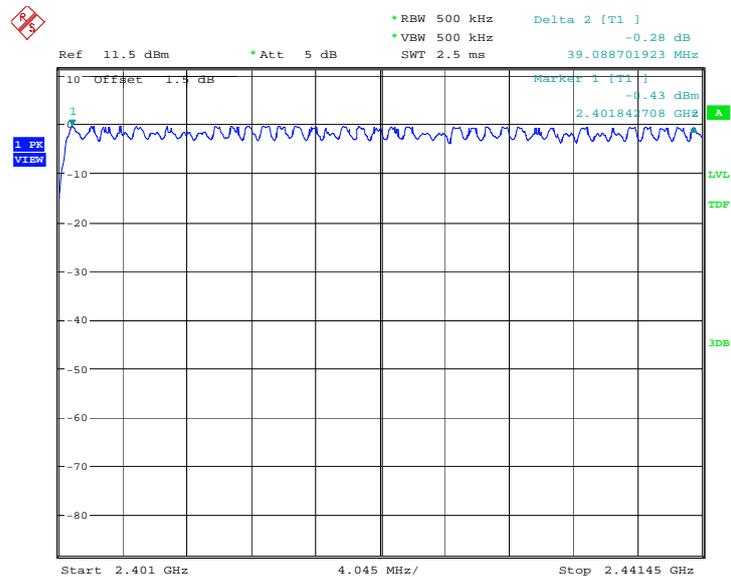
Date: 13.JUL.2012 03:07:36

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



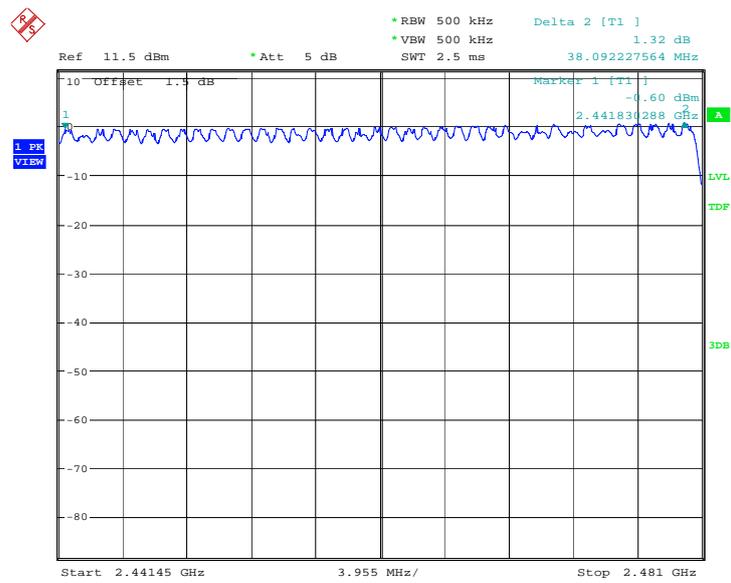
Date: 13.JUL.2012 03:09:39

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



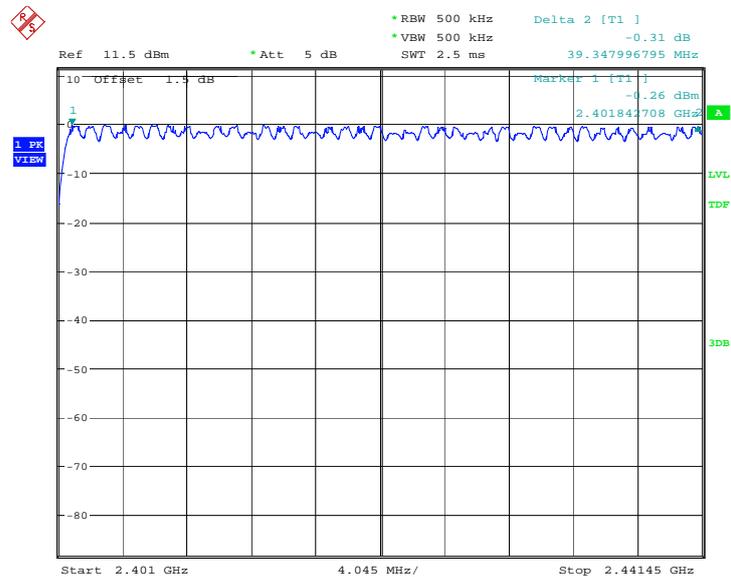
Date: 13.JUL.2012 03:29:35

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



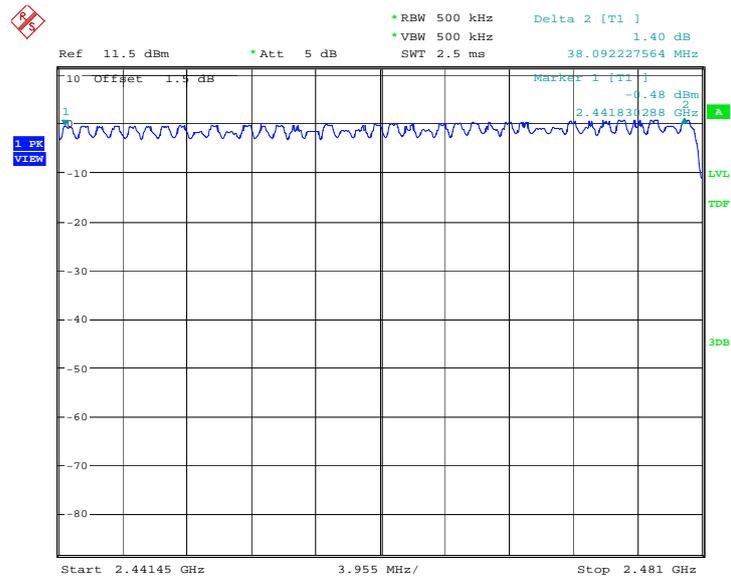
Date: 13.JUL.2012 03:31:37

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



Date: 13.JUL.2012 03:51:37

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



Date: 13.JUL.2012 03:53:40

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)	Result (dB μ V)	Conclusion
		With Charger	
0.15 to 0.5	66 o 56	Fig.130	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)

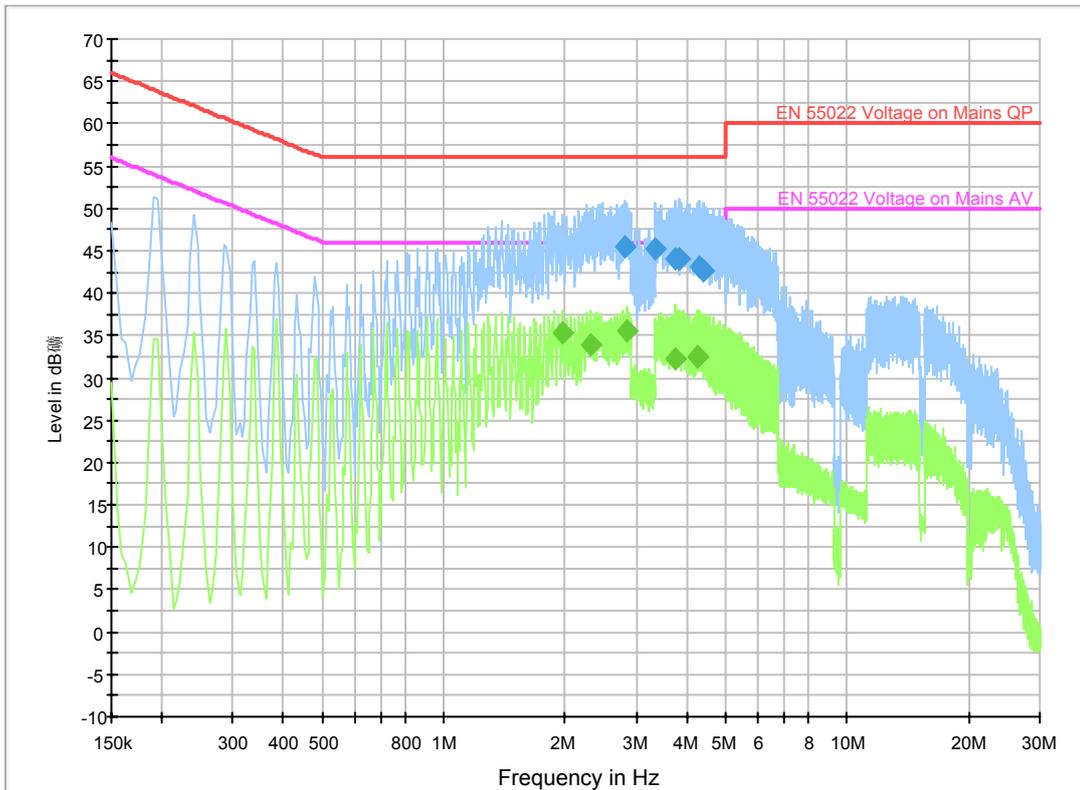
Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
		With Charger	
0.15 to 0.5	56 to 46	Fig.130	P
0.5 to 5	46		
5 to 30	50		

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 Public notice DA 00-705 and ANSI C63.4

Conclusion: PASS

Test graphs as below:

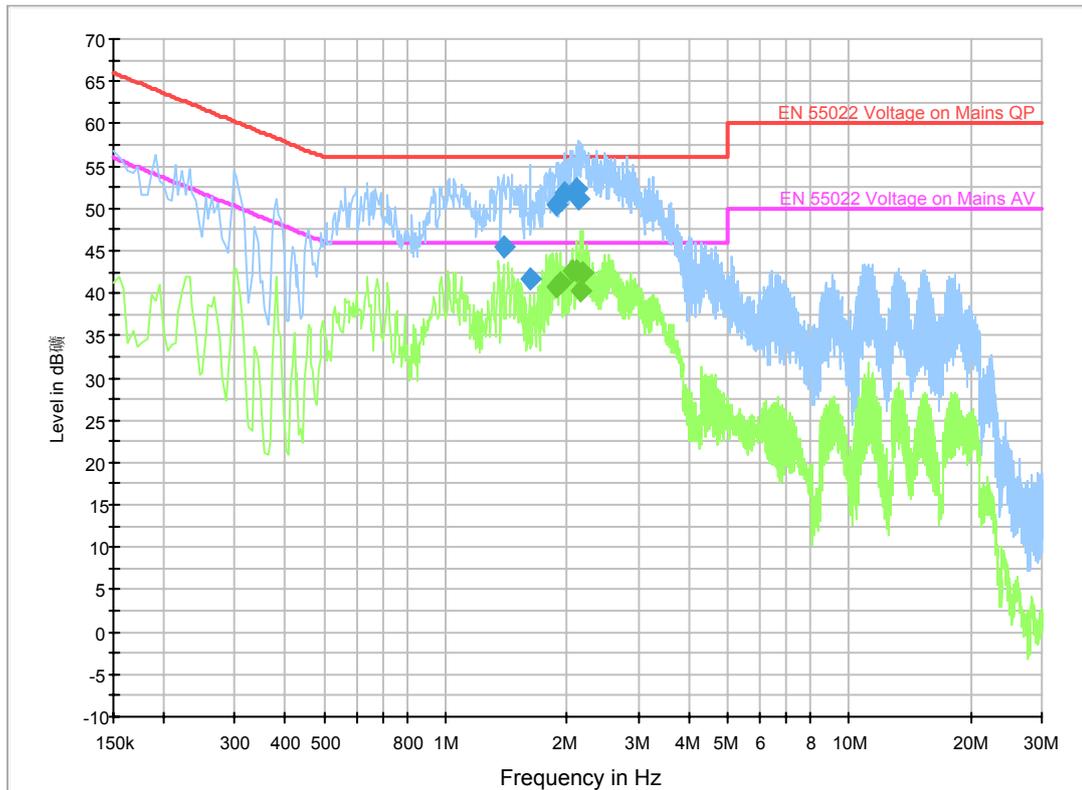


Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
2.809500	45.5	GND	L1	10.0	10.5	56.0
3.349500	45.2	GND	L1	10.0	10.8	56.0
3.759000	44.1	GND	L1	10.0	11.9	56.0
3.849000	44.1	GND	L1	10.0	11.9	56.0
4.290000	43.1	GND	L1	10.0	12.9	56.0
4.411500	42.7	GND	L1	10.0	13.3	56.0

Final Result 2

Frequency (MHz)	CAverag e (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.972500	35.3	GND	L1	10.0	10.7	46.0
2.305500	33.8	GND	L1	10.0	12.2	46.0
2.836500	35.6	GND	L1	10.0	10.4	46.0
3.759000	32.3	GND	L1	10.0	13.7	46.0
4.249500	32.4	GND	L1	10.0	13.6	46.0
4.258500	32.6	GND	L1	10.0	13.4	46.0



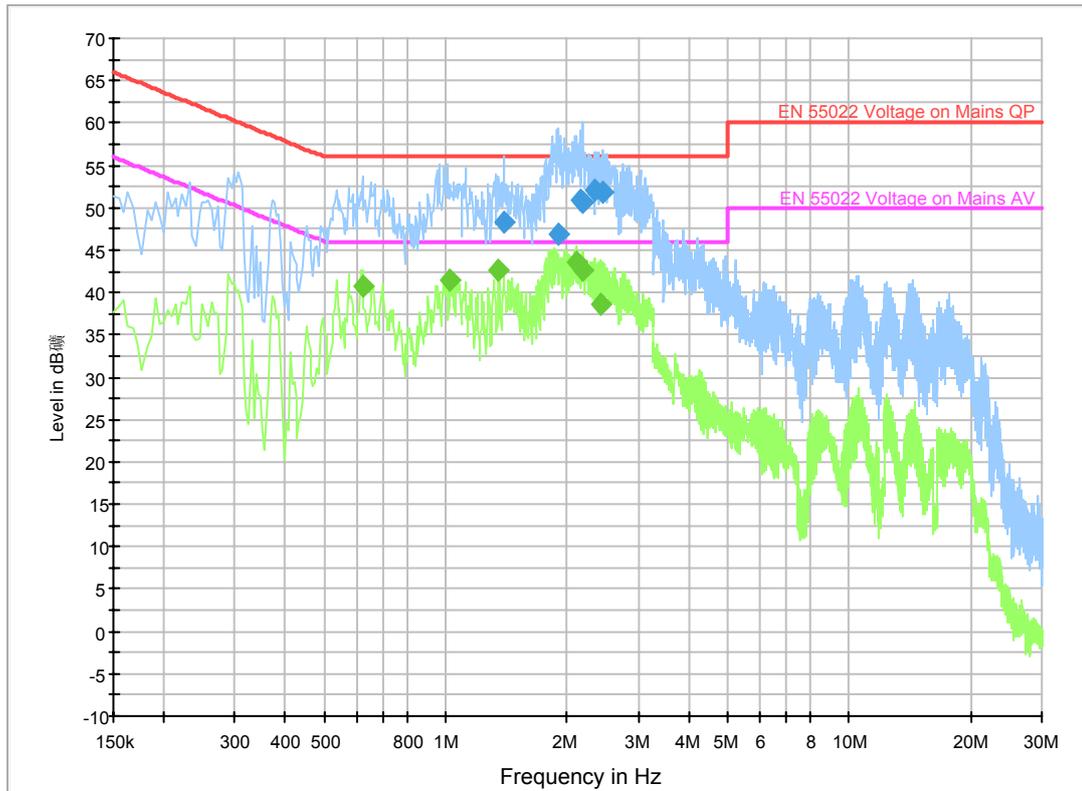
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.387500	45.5	GND	L1	10.0	10.5	56.0
1.617000	41.7	GND	N	10.0	14.3	56.0
1.887000	50.4	GND	L1	10.0	5.6	56.0
1.977000	51.9	GND	L1	10.0	4.1	56.0
2.107500	52.3	GND	L1	10.0	3.7	56.0
2.139000	51.2	GND	L1	10.0	4.8	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.887000	40.8	GND	L1	10.0	5.2	46.0
1.918500	41.2	GND	L1	10.0	4.8	46.0
2.067000	42.6	GND	L1	10.0	3.4	46.0
2.107500	42.5	GND	L1	10.0	3.5	46.0
2.148000	40.2	GND	L1	10.0	5.8	46.0
2.188500	42.4	GND	L1	10.0	3.6	46.0

IDLE:



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.396500	48.3	GND	N	10.0	7.7	56.0
1.891500	46.9	GND	N	10.0	9.1	56.0
2.148000	51.0	GND	N	10.0	5.0	56.0
2.179500	50.6	GND	N	10.0	5.4	56.0
2.332500	52.0	GND	L1	10.0	4.0	56.0
2.458500	51.8	GND	L1	10.0	4.2	56.0

Final Result 2

Frequency (MHz)	CAverag e (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.622500	40.7	GND	L1	10.0	5.3	46.0
1.027500	41.4	GND	L1	10.0	4.6	46.0
1.351500	42.7	GND	L1	10.0	3.3	46.0
2.098500	43.5	GND	L1	10.0	2.5	46.0
2.193000	42.7	GND	L1	10.0	3.3	46.0
2.427000	38.7	GND	L1	10.0	7.3	46.0

*** END OF REPORT BODY ***