



Full

TEST REPORT

No. I18D00205-SRD01

For

Client : Mobewire SAS

Production : 4G Smart Feature Phone

Model Name : MobiWire Oneida

FCC ID : QPN-ONEIDA

Hardware Version: V04

Software Version: VDF_ONEIDA_SS_O_L_C_V01.0_20181025

_MP_FCC

Issued date: 2018-11-22

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 ECIT Shanghai.

Test Laboratory:

ECIT Shanghai, East China Institute of Telecommunications

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Revision Version

Report Number	Revision	Date	Memo
I18D00205-SRD01	00	2018-11-20	Initial creation of test report
I18D00205-SRD01	01	2018-11-21	Second creation of test report
I18D00205-SRD01	02	2018-11-22	Third creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai, P. R. China
Postal Code:	200001
Telephone:	(+86)-021-63843300
Fax:	(+86)-021-63843301
FCC registration No	958356
Test lab accreditation designation	CN1177

1.2. Testing Environment

Normal Temperature:	15-35℃
Extreme Temperature:	-20/+60℃
Relative Humidity:	20-75%

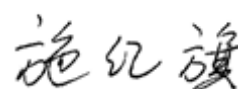
1.3. Project data

Project Leader:	Yu Anlu
Testing Start Date:	2018-10-18
Testing End Date:	2018-11-01

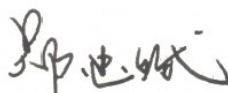
1.4. Signature



Yang Dejun
(Prepared this test report)



Shi Hongqi
(Reviewed this test report)



Zheng Zhongbin
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Mobiwire SAS
Address: 79 avenue Francois Arago, 92000 NANTERRE France
Telephone: 0574 59555707
Postcode: /

2.2. Manufacturer Information

Company Name: Mobiwire SAS
Address: 79 avenue Francois Arago, 92000 NANTERRE France
Telephone: 0574 59555707
Postcode: /

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

3.1. About EUT

EUT Description	4G Smart Feature Phone
Model name	MobiWire Oneida
BT Frequency	2402MHz-2480MHz
BT Channel	Channel0-Channel78
BT type of modulation	GFSK/ $\pi/4$ DQPSK/8DPSK
GSM Frequency Band	GSM850/GSM900/GSM1800/GSM1900
UMTS Frequency Band	Band 1/2/5/8
CDMA Frequency Band	NA
LTE Frequency Band	Band 1/3/7/20
Additional Communication Function	BT/BLE/2.4G WLAN 802.11 b/g/n20/n40
Extreme Temperature	-20/+60°C
Nominal Voltage	3.7V
Extreme High Voltage	4.2V
Extreme Low Voltage	3.6V

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

3.2. Internal Identification of EUT used during the test

EUT ID*	Model Name	SN or IMEI	HW Version	SW Version	Date of receipt
N01	MobiWire Oneida	352548100000 704/35254810 0000712	V04	VDF_ONEIDA_SS_ O_L_C_V01.0_2018 1025_MP_FCC	2018-10-15
N05	MobiWire Oneida	352548100000 563/35254810 0000571	V04	VDF_ONEIDA_SS_ O_L_C_V01.0_2018 1025_MP_FCC	2018-10-15

*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	RF cable	---

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

4. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15,Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.	2017/10/01
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013

5. Summary of Test Results

A brief summary of the tests carried out is shown as following.

Measurement Items	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247(b)	/	P
20dB Occupied Bandwidth	15.247(a)	/	P
Band Edges Compliance	15.247(b)	/	P
Time Of Occupancy (Dwell Time)	15.247(a)	/	P
Carrier Frequency Separation	15.247(a)	/	P
Number Of Hopping Channels	15.247(a)	/	P
Transmitter Spurious Emission-Conducted	15.247	/	P
Transmitter Spurious Emission-Radiated	15.247,15.209,	/	P
AC Powerline Conducted Emission	15.107,15.207	/	P

Please refer to part 5 for detail.

The measurements are according to ANSI C63.10.

Terms used in Verdict column

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

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage

Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

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

Temperature	Tnom	25°C
Voltage	Vnom	3.7V
Humidity	Hnom	48%
Air Pressure	Anom	1010hPa

Note:

- All the test data for each data were verified, but only the worst case was reported.
- The GFSK, $\pi/4$ DQPSK and 8DPSK were set in DH1 for GFSK, 2-DH1 for $\pi/4$ DQPSK, 3-DH1 for 8DPSK.
- The DC and low frequency voltages' measurement uncertainty is $\pm 2\%$.

5.1. Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with section 3.

The test results of this test report relate exclusively to the item(s) tested as specified in section 5.

5.2. Statements

The MobiWire Oneida, supporting GSM/GPRS/EDGE/WCDMA/LTE/BT/BLE/WLAN, manufactured by Mobiwire SAS , which is a new product for testing.

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

6. Test result

6.1. Peak Output Power-Conducted

6.1.1 Measurement Limit

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

6.1.2 Test Condition:

Hopping Mode	RBW	VBW	Span	Sweptime
Hopping OFF	3MHz	10MHz	9MHz	Auto

6.1.3 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.5.

1. The output power of EUT was connected to the spectrum analyzer and CBT32 by cable and divide. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Measure the conducted output power and record the results it.

6.1.4 Measurement Results:

For GFSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	3.679	4.534	4.076	P
	Fig.1	Fig.2	Fig.3	

For $\pi/4$ DQPSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	2.367	3.252	2.542	P
	Fig.4	Fig.5	Fig.6	

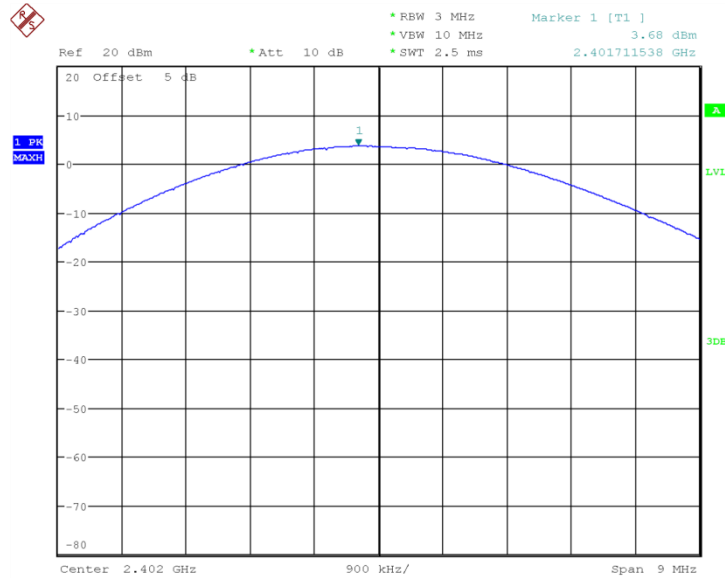
For 8DPSK

Channel	Ch0 2402 MHz	Ch39 2441 MHz	CH78 2480 MHz	Conclusion
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Peak Conducted Output Power (dBm)	2.375	3.244	2.527	P
	Fig.7	Fig.8	Fig.9	

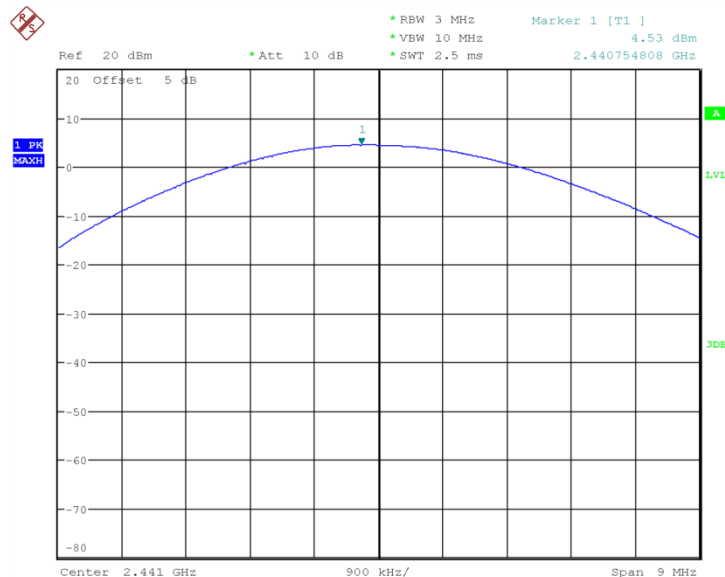
Conclusion: PASS

Test graphs an below



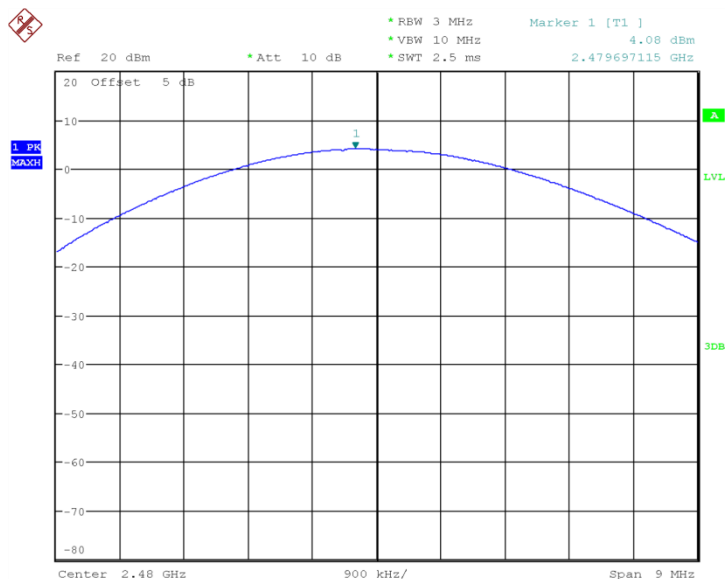
Date: 18.OCT.2018 03:55:50

Fig.1 Peak Conducted Output Power CH0, DH1



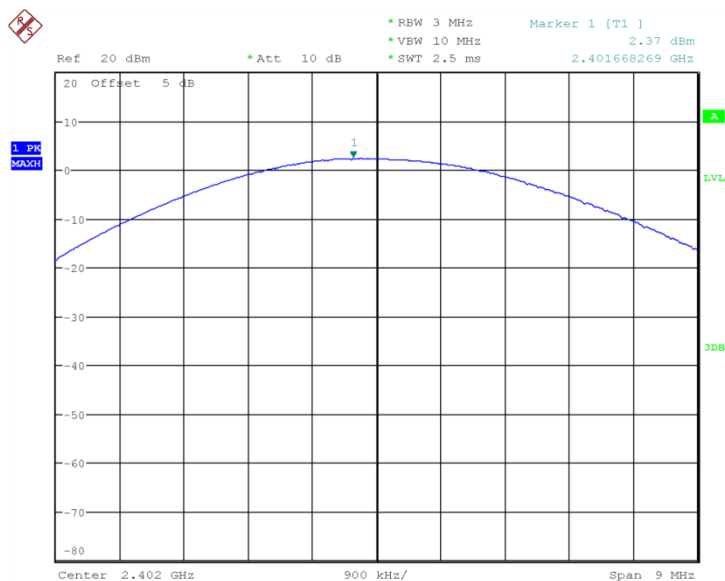
Date: 18.OCT.2018 03:56:05

Fig.2 Peak Conducted Output Power CH39, DH1



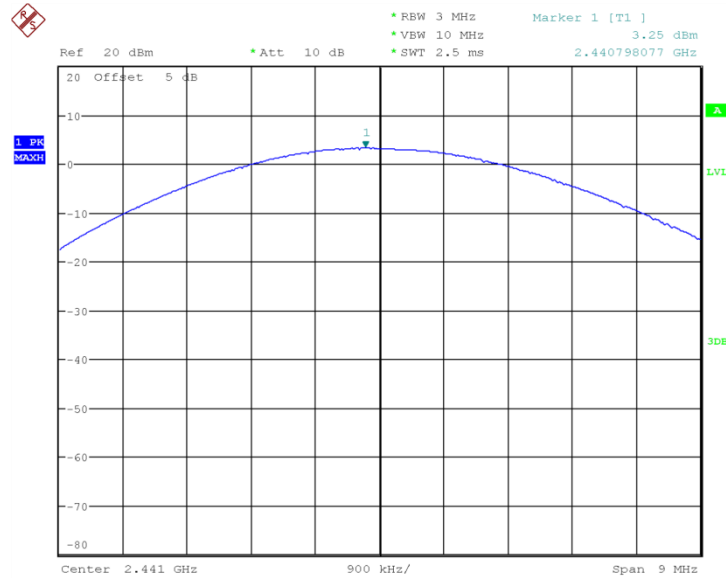
Date: 18.OCT.2018 03:56:20

Fig.3 Peak Conducted Output Power CH78, DH1



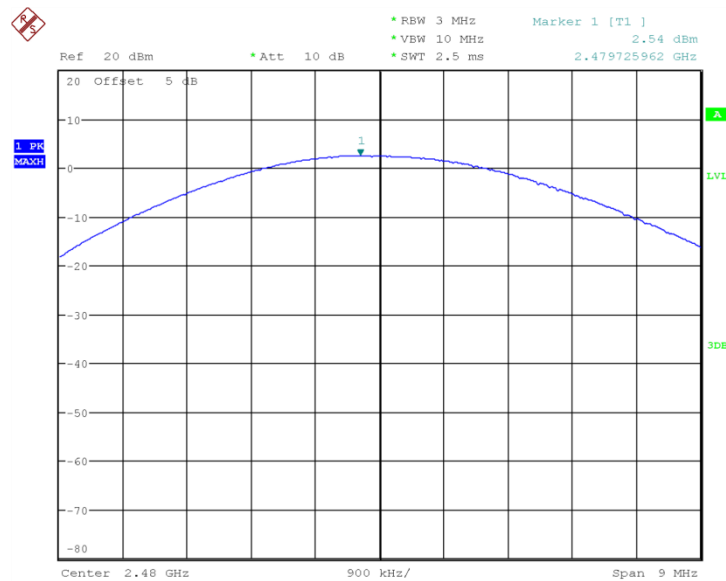
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Fig.4 Peak Conducted Output Power CH0, 2DH1



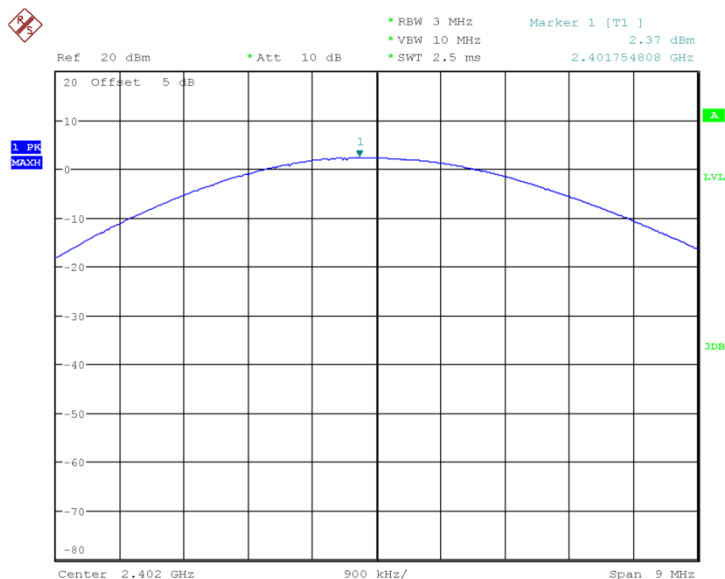
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Fig.5 Peak Conducted Output Power CH39, 2DH1



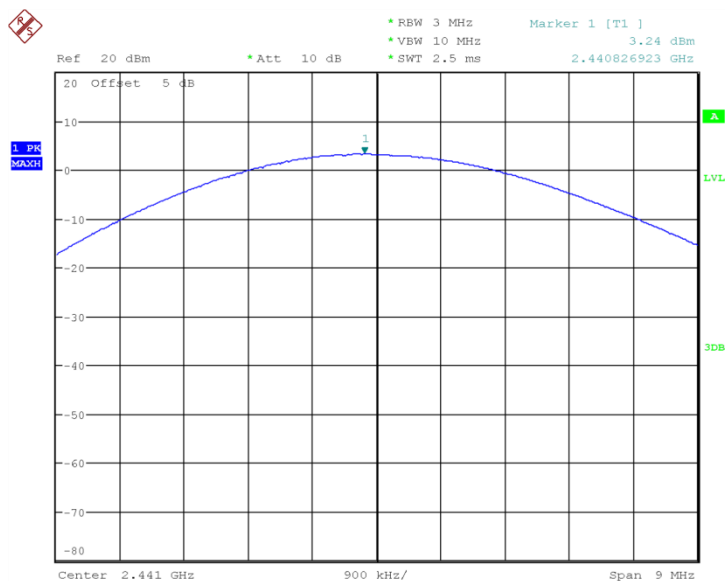
Date: 18.OCT.2018 03:57:04

Fig.6 Peak Conducted Output Power CH78, 2DH1



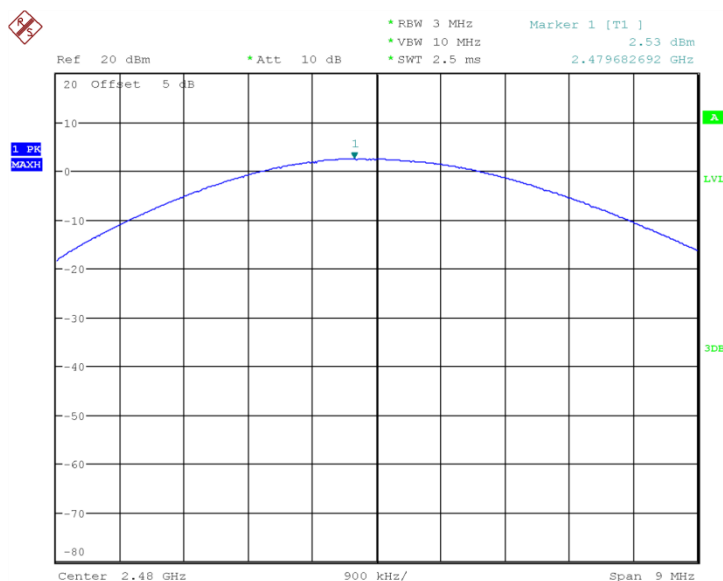
Date: 18.OCT.2018 03:57:19

Fig.7 Peak Conducted Output Power CH0, 3DH1



Date: 18.OCT.2018 03:57:34

Fig.8 Peak Conducted Output Power CH39, 3DH1



Date: 18.OCT.2018 03:57:49

Fig.9 Peak Conducted Output Power CH78, 3DH1

6.2. Frequency Band Edges-Conducted

6.2.1 Measurement Limit:

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

6.2.2 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.6.

1. Connect the EUT to spectrum analyzer.
2. Set RBW=100KHz, VBW=300KHz, span more than 1.5 times channel bandwidth (2MHz).
3. Detector =peak, sweep time=auto couple, trace mode=max hold.
4. Allow sweep to continue until the trace stabilizes.

6.2.3 Measurement results

For GFSK

Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.10	P
	Hopping ON	Fig.11	P

78	Hopping OFF	Fig.12	P
	Hopping ON	Fig.13	P

For $\pi/4$ DQPSK

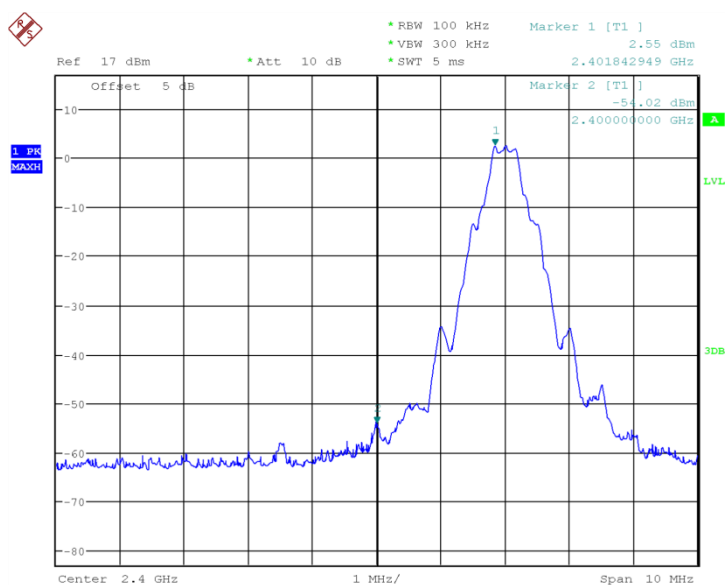
Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.14	P
	Hopping ON	Fig.15	P
78	Hopping OFF	Fig.16	P
	Hopping ON	Fig.17	P

For 8DPSK

Channel	Hopping	Band Edge Power (dBc)	Conclusion
0	Hopping OFF	Fig.18	P
	Hopping ON	Fig.19	P
78	Hopping OFF	Fig.20	P
	Hopping ON	Fig.21	P

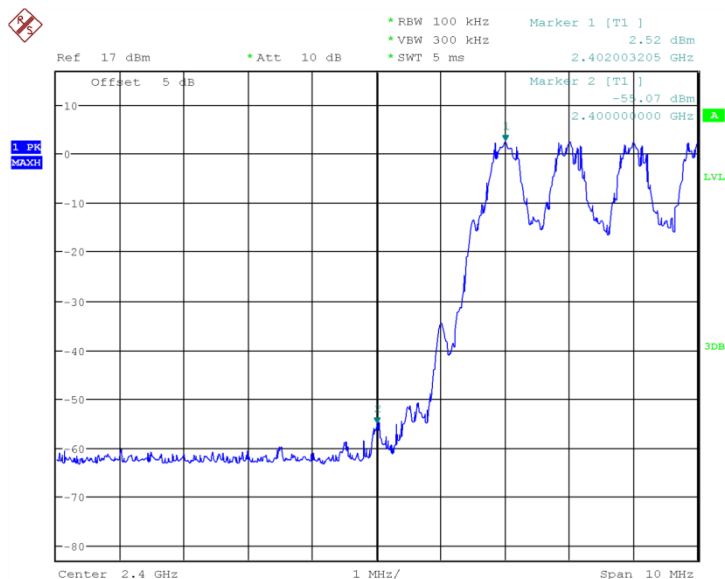
Conclusion: PASS

Test graphs an below



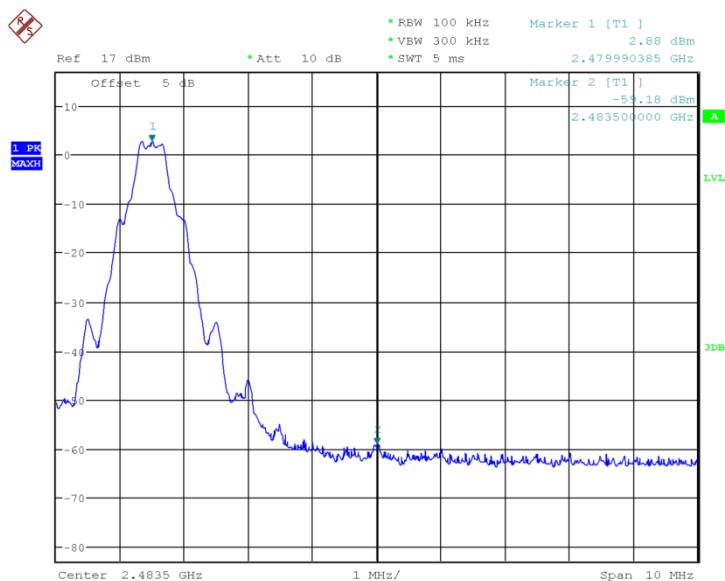
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Fig.10 Frequency Band Edge: GFSK, Ch0, Hopping OFF



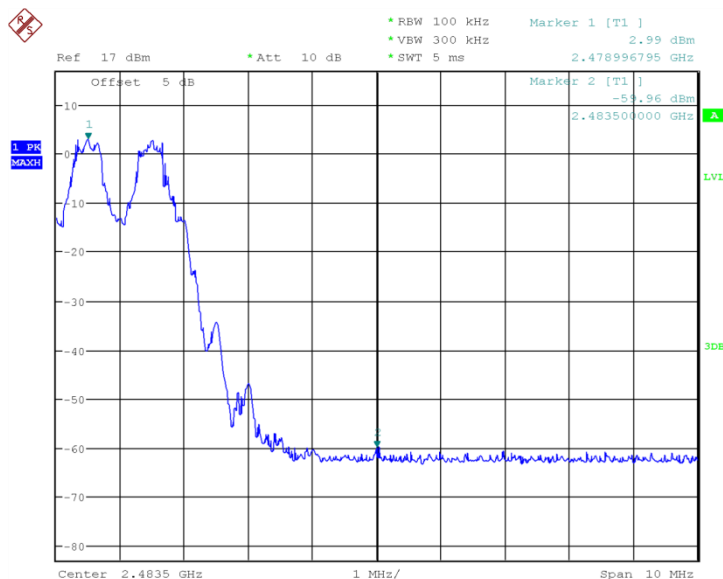
Date: 18.OCT.2018 04:04:15

Fig.11 Frequency Band Edge: GFSK, Ch0, Hopping ON



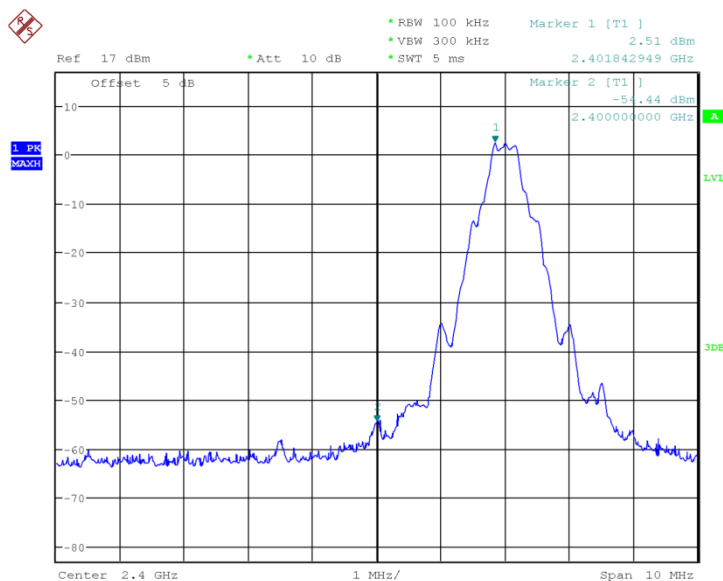
Date: 18.OCT.2018 04:10:23

Fig.12 Frequency Band Edge: GFSK, Ch78, Hopping OFF



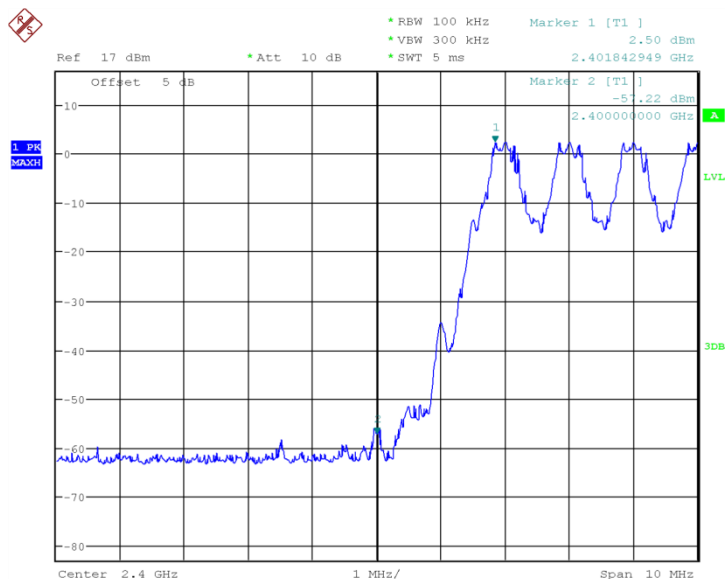
Date: 18.OCT.2018 04:12:30

Fig.13 Frequency Band Edge: GFSK, Ch78, Hopping ON



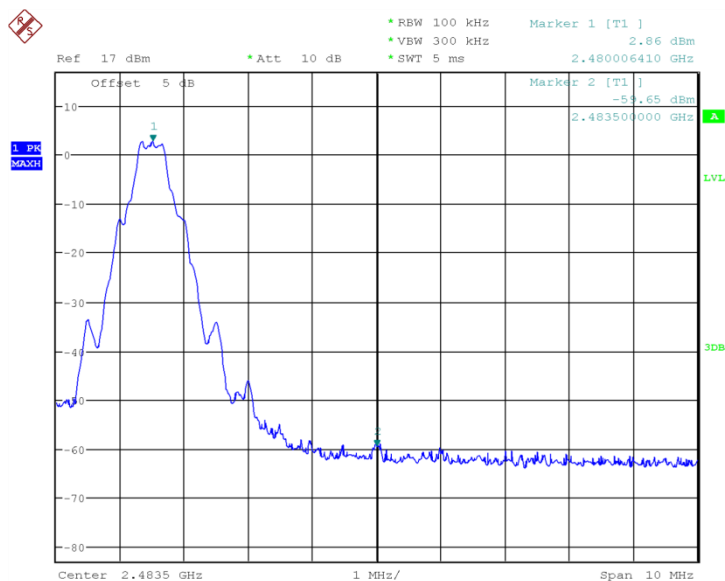
Date: 18.OCT.2018 04:04:52

Fig.14 Frequency Band Edge: $\pi/4$ DQPSK, Ch0, Hopping OFF



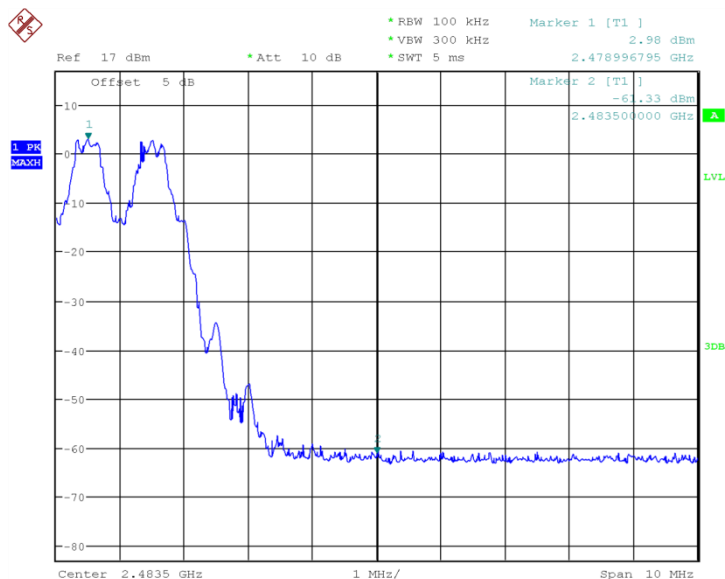
Date: 18.OCT.2018 04:06:59

Fig.15 Frequency Band Edge: $\pi/4$ DQPSK, Ch0, Hopping ON



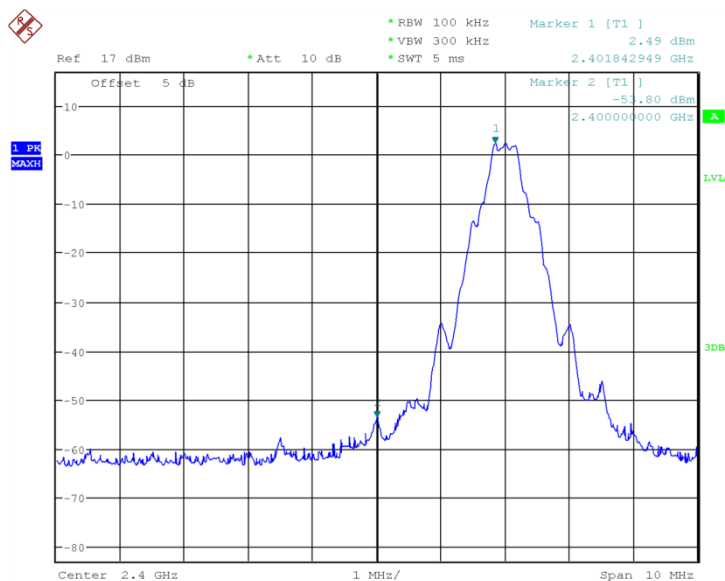
Date: 18.OCT.2018 04:13:07

Fig.16 Frequency Band Edge: $\pi/4$ DQPSK, Ch78, Hopping OFF



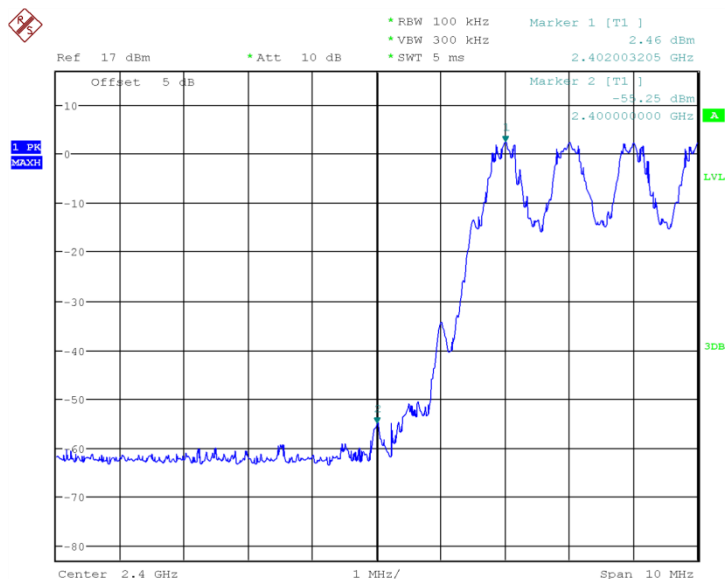
Date: 18.OCT.2018 04:15:14

Fig.17 Frequency Band Edge: $\pi/4$ DQPSK, Ch78, Hopping ON



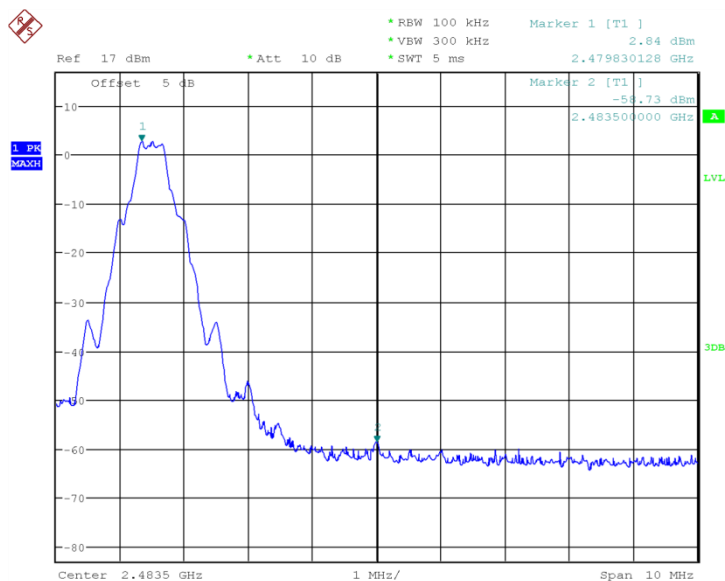
Date: 18.OCT.2018 04:07:37

Fig.18 Frequency Band Edge: 8DPSK, Ch0, Hopping OFF



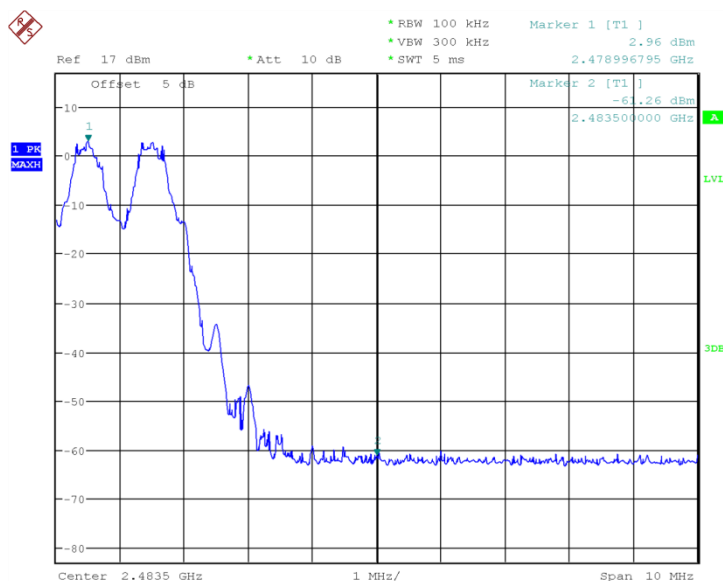
Date: 18.OCT.2018 04:09:44

Fig.19 Frequency Band Edge: 8DPSK, Ch0, Hopping ON



Date: 18.OCT.2018 04:15:52

Fig.20 Frequency Band Edge: 8DPSK, Ch78, Hopping OFF



Date: 18.OCT.2018 04:17:59

Fig.21 Frequency Band Edge: 8DPSK, Ch78, Hopping ON

6.3. Conducted Emission

6.3.1 Measurement Limit:

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

6.3.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.8.

1. Connect the EUT to spectrum analyzer.
2. Set RBW=100KHz, VBW=300KHz.
3. Detector =peak, sweep time=auto couple, trace mode=max hold.

6.3.3 Measurement Results:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.22	P
	30MHz~26GHz	Fig.23	P
Ch39 2441MHz	Center Freq.	Fig.24	P

	30MHz~26GHz	Fig.25	P
Ch78 2480MHz	Center Freq.	Fig.26	P
	30MHz~26GHz	Fig.27	P

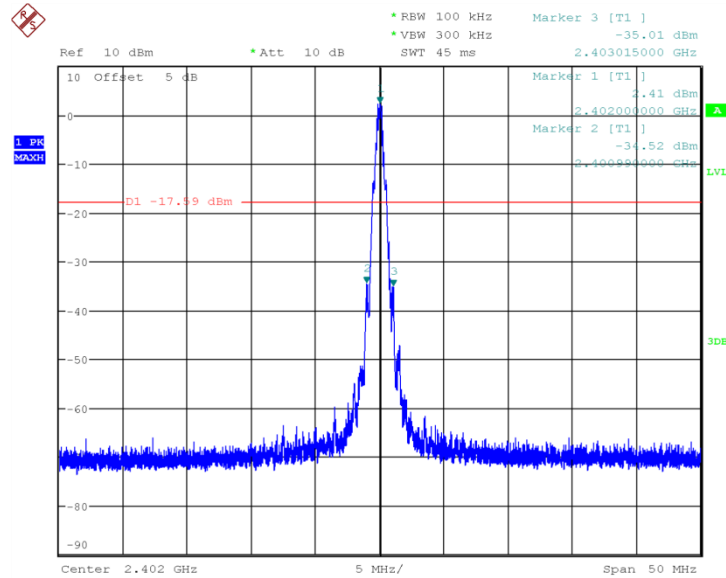
For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.28	P
	30MHz~26GHz	Fig.29	P
Ch39 2441MHz	Center Freq.	Fig.30	P
	30MHz~26GHz	Fig.31	P
Ch78 2480MHz	Center Freq.	Fig.32	P
	30MHz~26GHz	Fig.33	P

For 8DPSK

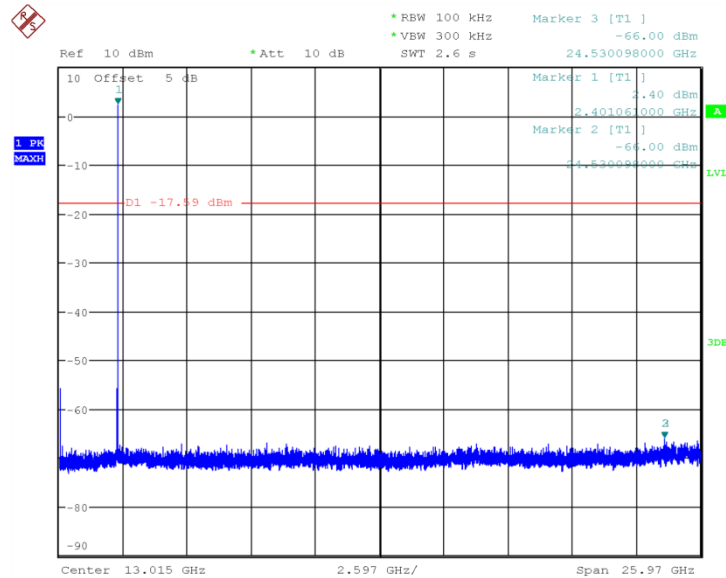
Channel	Frequency Range	Test Results	Conclusion
Ch0 2402MHz	Center Freq.	Fig.34	P
	30MHz~26GHz	Fig.35	P
Ch39 2441MHz	Center Freq.	Fig.36	P
	30MHz~26GHz	Fig.37	P
Ch78 2480MHz	Center Freq.	Fig.38	P
	30MHz~26GHz	Fig.39	P

Conclusion: PASS
Test graphs as below



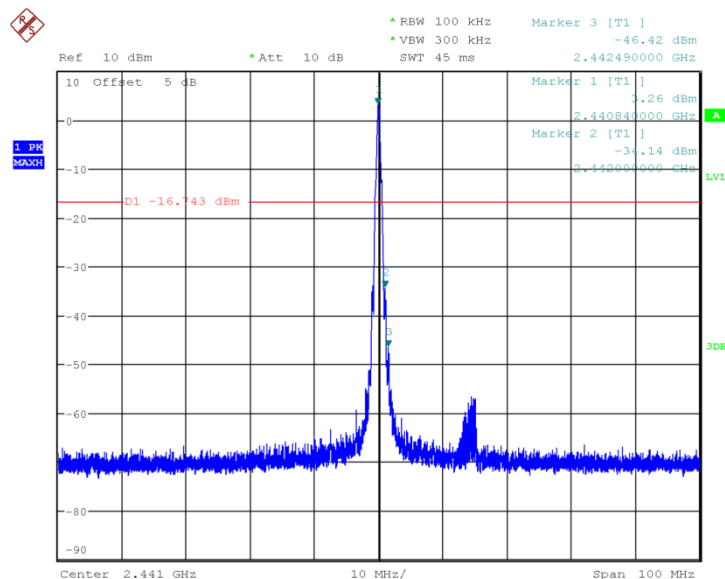
Date: 18.OCT.2018 04:18:57

Fig.22 Conducted spurious emission: GFSK, Ch0, 2402MHz



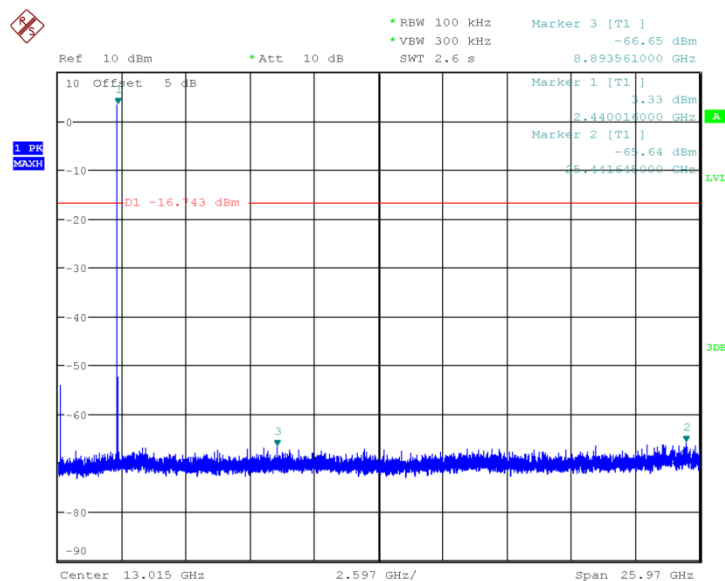
Date: 18.OCT.2018 04:19:23

Fig.23 Conducted spurious emission: GFSK, Ch0, 30MHz~26GHz



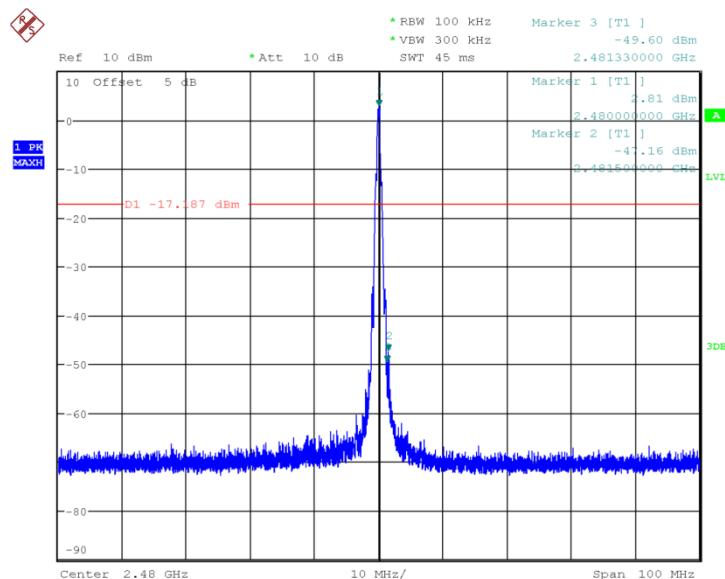
Date: 18.OCT.2018 04:19:50

Fig.24 Conducted spurious emission: GFSK, Ch39, 2441MHz



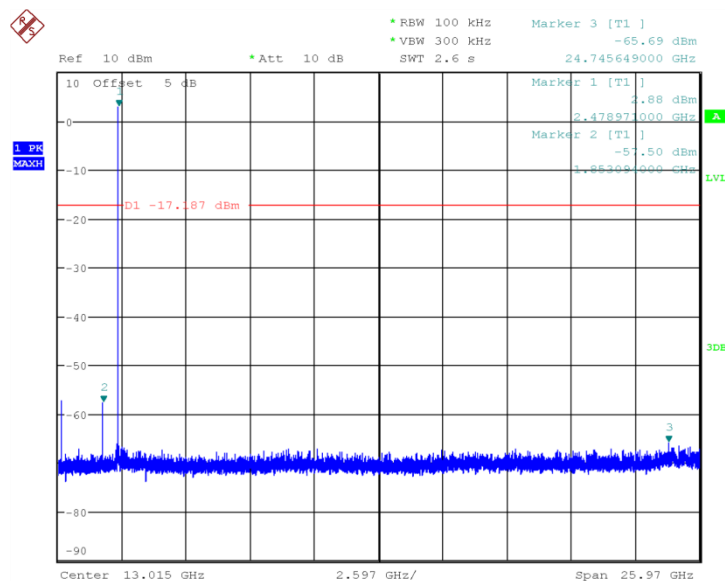
Date: 18.OCT.2018 04:20:15

Fig.25 Conducted spurious emission: GFSK, Ch39, 30MHz~26GHz



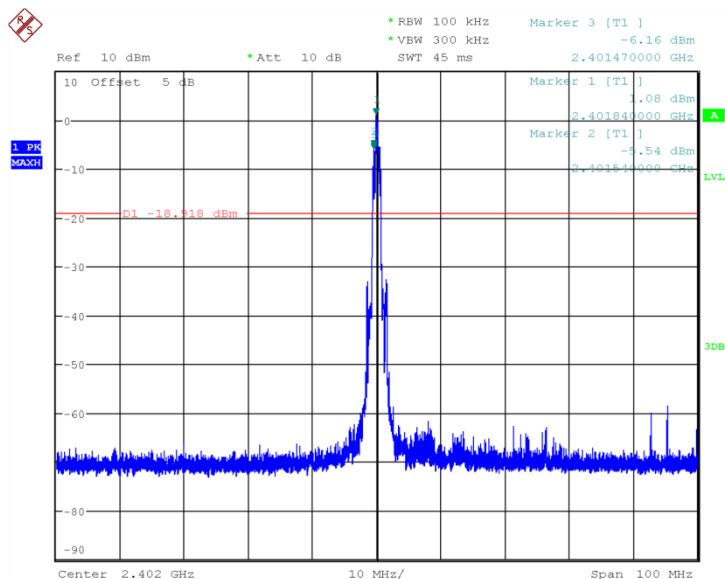
Date: 18.OCT.2018 04:20:42

Fig.26 Conducted spurious emission: GFSK, Ch78, 2480MHz



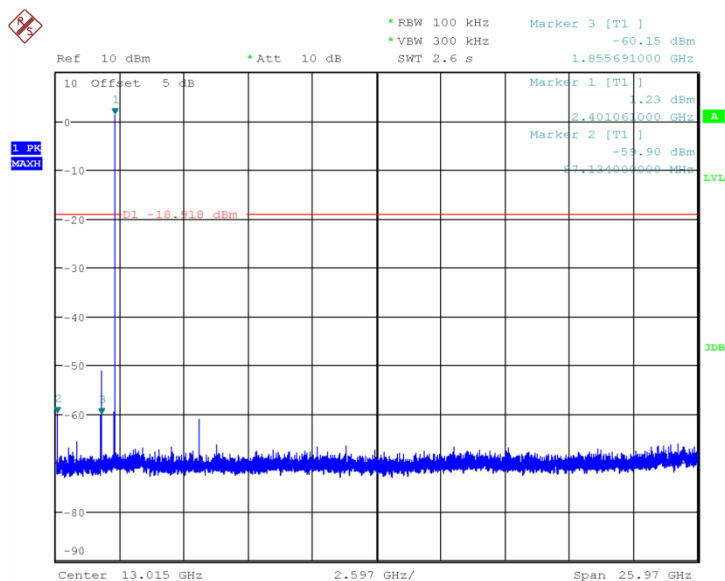
Date: 18.OCT.2018 04:21:08

Fig.27 Conducted spurious emission: GFSK, Ch78, 30MHz~26GHz



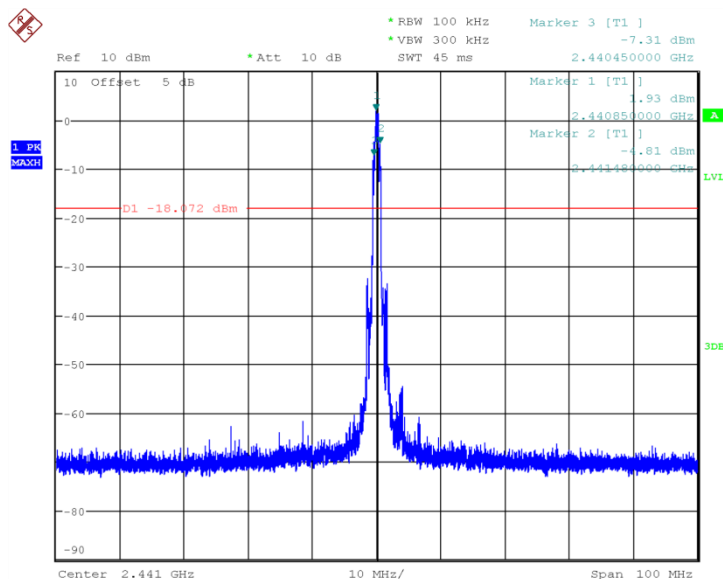
Date: 18.OCT.2018 04:21:35

Fig.28 Conducted spurious emission: $\pi/4$ DQPSK, Ch0, 2402MHz



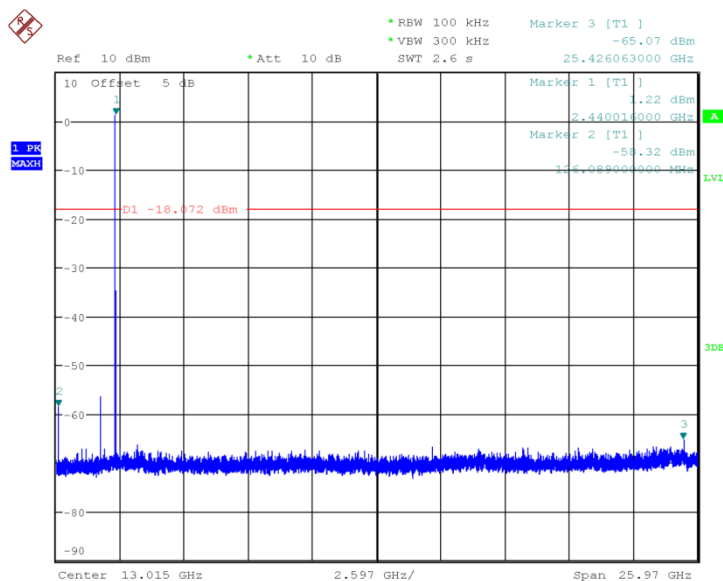
Date: 18.OCT.2018 04:22:01

Fig.29 Conducted spurious emission: $\pi/4$ DQPSK, Ch0, 30MHz~26GHz



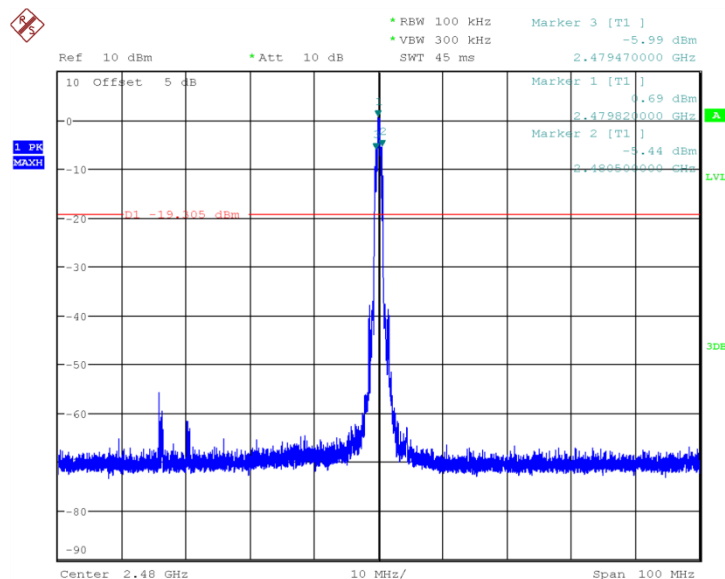
Date: 18.OCT.2018 04:22:28

Fig.30 Conducted spurious emission: $\pi/4$ DQPSK, Ch39, 2441MHz



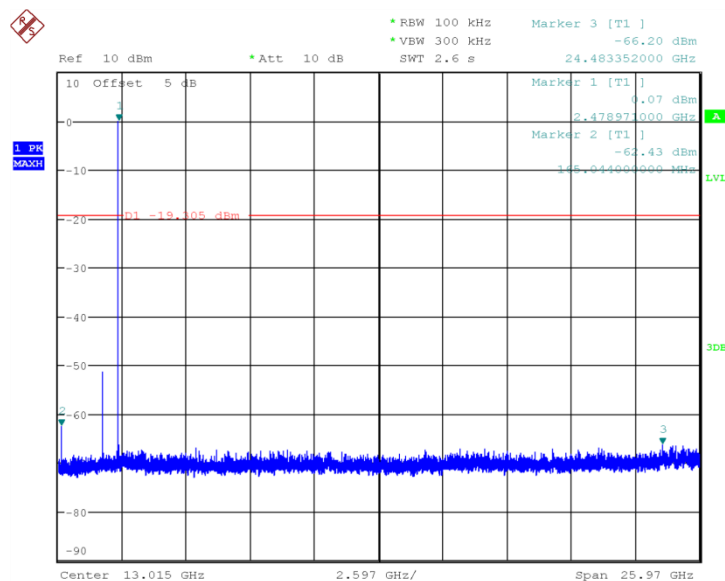
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Fig.31 Conducted spurious emission: $\pi/4$ DQPSK, Ch39, 30MHz~26GHz



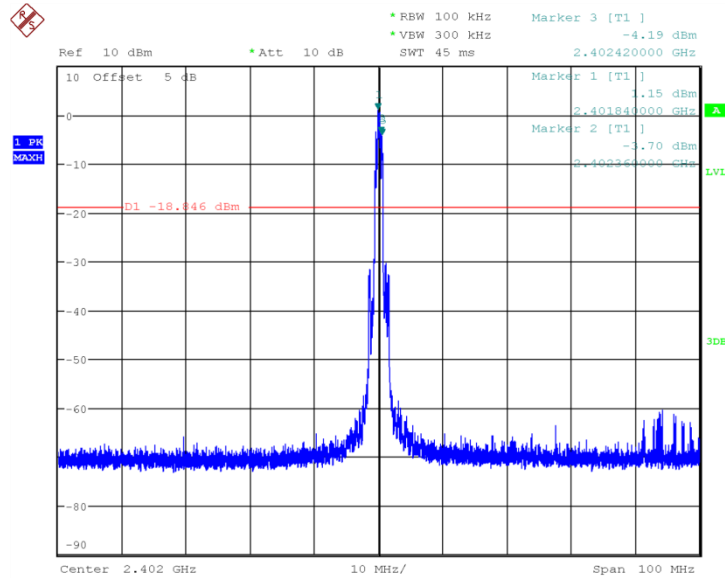
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Fig.32 Conducted spurious emission: $\pi/4$ DQPSK, Ch78, 2480MHz



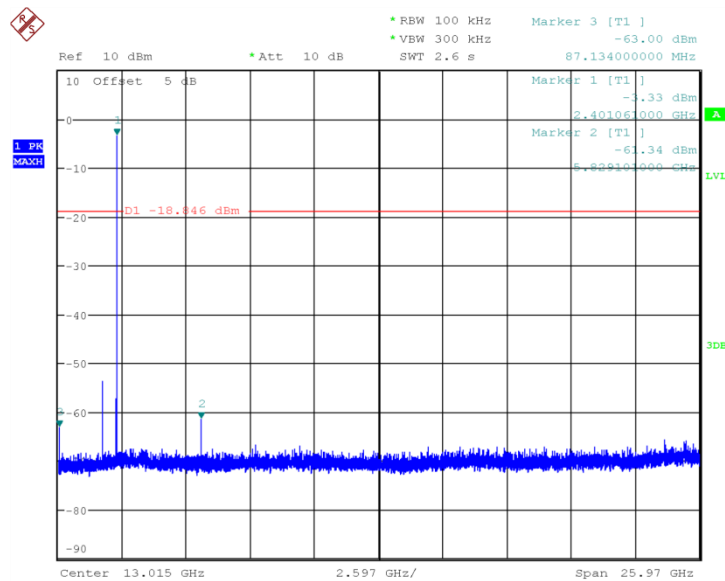
Date: 18.OCT.2018 04:23:46

Fig.33 Conducted spurious emission: $\pi/4$ DQPSK, Ch78, 30MHz~26GHz



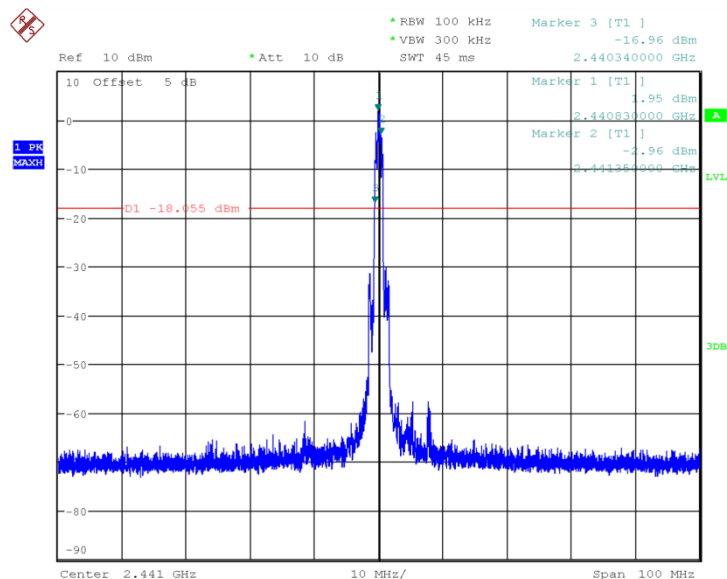
Date: 18.OCT.2018 04:24:13

Fig.34 Conducted spurious emission: 8DPSK, Ch0, 2402MHz



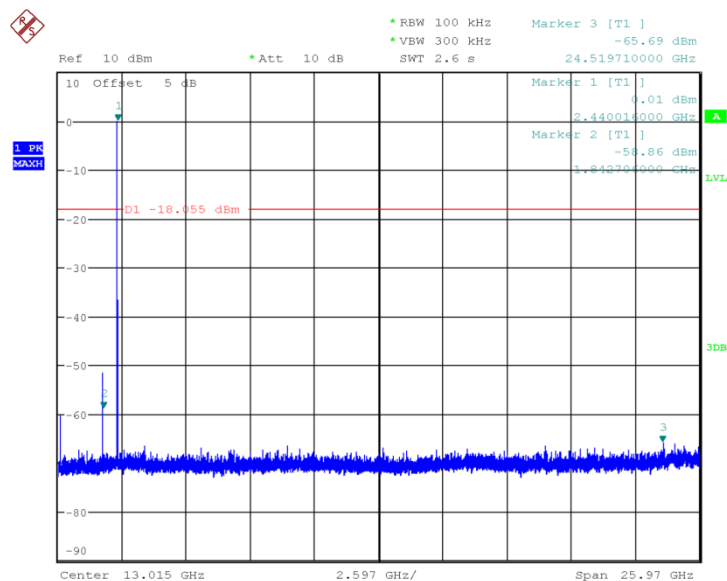
Date: 18.OCT.2018 04:24:38

Fig.35 Conducted spurious emission: 8DPSK, Ch0, 30MHz~26GHz



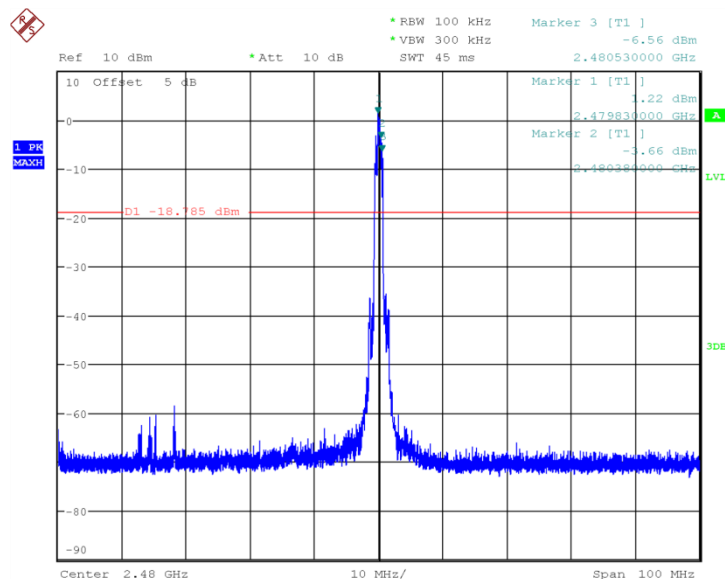
Date: 18.OCT.2018 04:25:06

Fig.36 Conducted spurious emission: 8DPSK, Ch39, 2441MHz



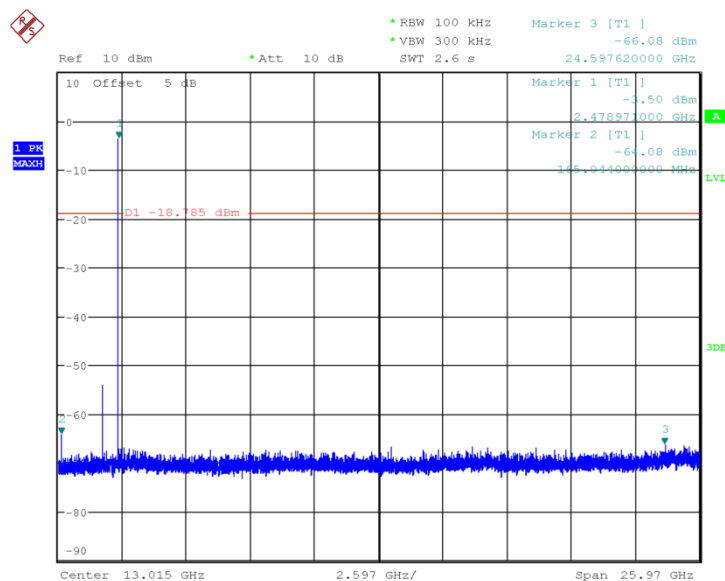
Date: 18.OCT.2018 04:25:31

Fig.37 Conducted spurious emission: 8DPSK, Ch39, 30MHz~26GHz



Date: 18.OCT.2018 04:25:58

Fig.38 Conducted spurious emission: 8DPSK, Ch78, 2480MHz



Date: 18.OCT.2018 04:26:24

Fig.39 Conducted spurious emission: 8DPSK, Ch78, 30MHz~26GHz

6.4. Radiated Emission

6.4.1 Measurement Limit:

Standard	Limit
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FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power
--	------------------------------

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

6.4.2 Test Method

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

6.4.3 Measurement Results:

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

The measurement results are obtained as described below:

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

Result= $P_{Mea} + A_{Rpi}$

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch78 2480MHz	30MH~1GHz	Fig.40	P
	1GHz~3GHz	Fig.41	P
	3GHz~18GHz	Fig.42	P
Power(low)	2.31GHz~2.5GHz	Fig.43	P
Power(high)	2.31GHz~2.5GHz	Fig.44	P

For $\pi/4$ DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch78 2480MHz	30MH~1GHz	Fig.45	P
	1GHz~3GHz	Fig.46	P
	3GHz~18GHz	Fig.47	P
Power(low)	2.31GHz~2.5GHz	Fig.48	P
Power(high)	2.31GHz~2.5GHz	Fig.49	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch78 2480MHz	30MH~1GHz	Fig.50	P
	1GHz~3GHz	Fig.51	P
	3GHz~18GHz	Fig.52	P
Power(low)	2.31GHz~2.5GHz	Fig.53	P
Power(high)	2.31GHz~2.5GHz	Fig.54	P

GFSK Ch78 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
33.7	13.54	-22	35.54	V

34.0	17.31	-22	39.31	V
36.2	12.47	-21.6	34.07	V
48.4	11.81	-20	31.81	V
105.0	8.62	-23.4	32.02	H
170.7	6.3	-26	32.3	H

GFSK Ch78 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2612.0	53.76	7.4	46.36	V
2651.4	53.97	7.7	46.27	V
2705.6	54.3	7.9	46.4	V
2803.5	55.59	7.9	47.69	H
2878.6	55.54	8.6	46.94	H
2915.4	55.05	8.8	46.25	H

GFSK Ch78 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2705.6	42.27	7.9	34.37	V
2803.5	42.53	7.9	34.63	H
2878.6	43.14	8.6	34.54	H
2915.4	43.12	8.8	34.32	H

GFSK Ch78 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14002.2	53.26	18.9	34.36	H
14281.2	55.12	20.5	34.62	H
15374.2	56.16	22.4	33.76	V
15979.5	58.74	25.2	33.54	H
16837.0	60.49	27.3	33.19	V

17149.4	60.52	27.1	33.42	V
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GFSK Ch78 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14281.2	42.84	20.5	22.34	H
15374.2	43.75	22.4	21.35	V
15979.5	46.84	25.2	21.64	H
16837.0	48.12	27.3	20.82	V
17149.4	48.04	27.1	20.94	V

 $\pi/4$ DQPSK Ch78 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
32.1	11.02	-22	33.02	V
34.6	11.43	-22	33.43	V
36.3	11.69	-21.6	33.29	V
56.6	10.61	-21.3	31.91	V
108.8	8.63	-23.4	32.03	V
195.7	8.42	-24.4	32.82	V

 $\pi/4$ DQPSK Ch78 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2593.7	54.64	7.3	47.34	V
2655.7	54.42	7.7	46.72	H
2731.0	54.58	7.8	46.78	H
2786.1	54.12	7.8	46.32	V
2870.7	55.09	8.5	46.59	V
2954.3	55.49	8.7	46.79	H

 $\pi/4$ DQPSK Ch78 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
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2593.7	41.89	7.3	34.59	V
2655.7	42.37	7.7	34.67	H
2731.0	42.2	7.8	34.4	H
2786.1	42.41	7.8	34.61	V
2870.7	43.08	8.5	34.58	V
2954.3	43.05	8.7	34.35	H

 $\pi/4$ DQPSK Ch78 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14693.4	55.29	21.1	34.19	V
15273.7	56.08	21.4	34.68	H
16035.5	59.9	25.2	34.7	V
16298.7	58.95	25.8	33.15	V
16770.0	59.37	26.8	32.57	V
17185.0	59.97	27.3	32.67	V

 $\pi/4$ DQPSK Ch78 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14693.4	43.21	21.1	22.11	V
15273.7	43.47	21.4	22.07	H
16035.5	46.94	25.2	21.74	V
16298.7	46.85	25.8	21.05	V
16770.0	47.47	26.8	20.67	V
17185.0	48.24	27.3	20.94	V

8DPSK Ch78 30MHz-1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
30.4	26.04	-22.1	48.14	V
34.8	13.24	-21.9	35.14	V

35.9	13.28	-21.7	34.98	V
41.2	15.72	-20.6	36.32	V
84.6	17.53	-26.3	43.83	H
87.5	18.28	-25.7	43.98	H

8DPSK Ch78 1GHz-3GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2612.0	53.76	7.4	46.36	V
2651.4	53.97	7.7	46.27	V
2705.6	54.3	7.9	46.4	V
2803.5	55.59	7.9	47.69	H
2878.6	55.54	8.6	46.94	H
2915.4	55.05	8.8	46.25	H

8DPSK Ch78 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2705.6	42.27	7.9	34.37	V
2803.5	42.53	7.9	34.63	H
2878.6	43.14	8.6	34.54	H
2915.4	43.12	8.8	34.32	H

8DPSK Ch78 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
12879.9	53.62	16.9	36.72	H
14305.2	55.45	20.7	34.75	H
15119.2	54.95	21.3	33.65	H
15958.0	58.25	24.9	33.35	H
16845.0	59.88	27.3	32.58	H
17530.0	59.35	27.6	31.75	V

8DPSK Ch78 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14305.2	42.78	20.7	22.08	H
15119.2	42.86	21.3	21.56	H
15958.0	46.31	24.9	21.41	H
16845.0	47.32	27.3	20.02	H
17530.0	47.73	27.6	20.13	V

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

Conclusion: PASS

Test graphs as below:

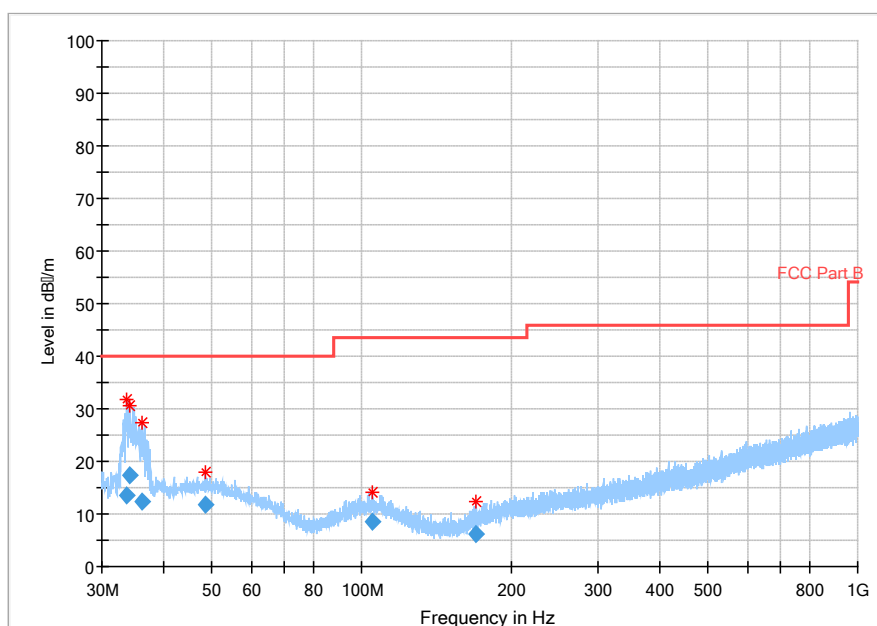


Fig.40 Radiated emission: GFSK, Ch78, 30MHz~1GHz

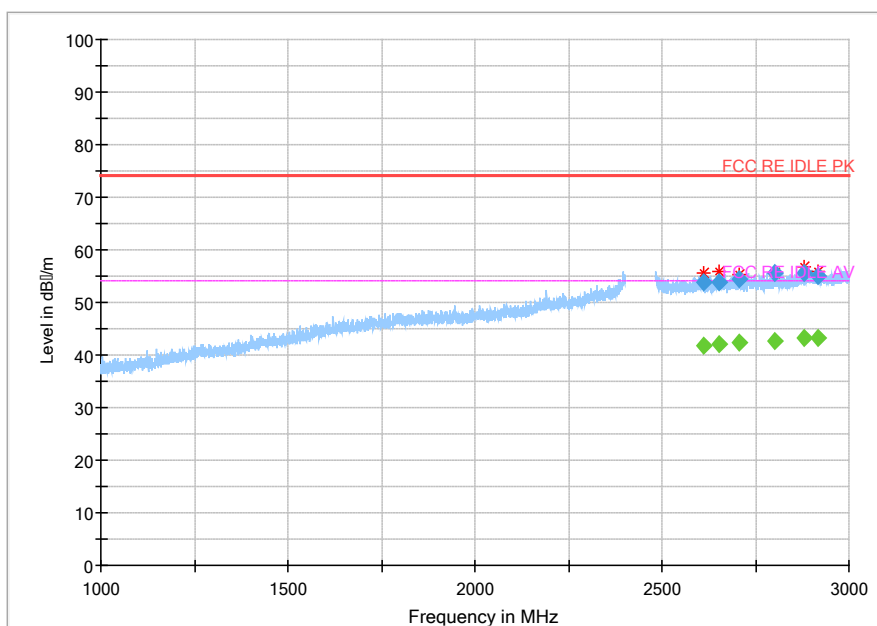


Fig.41 Radiated emission: GFSK, Ch78, 1GHz~3GHz

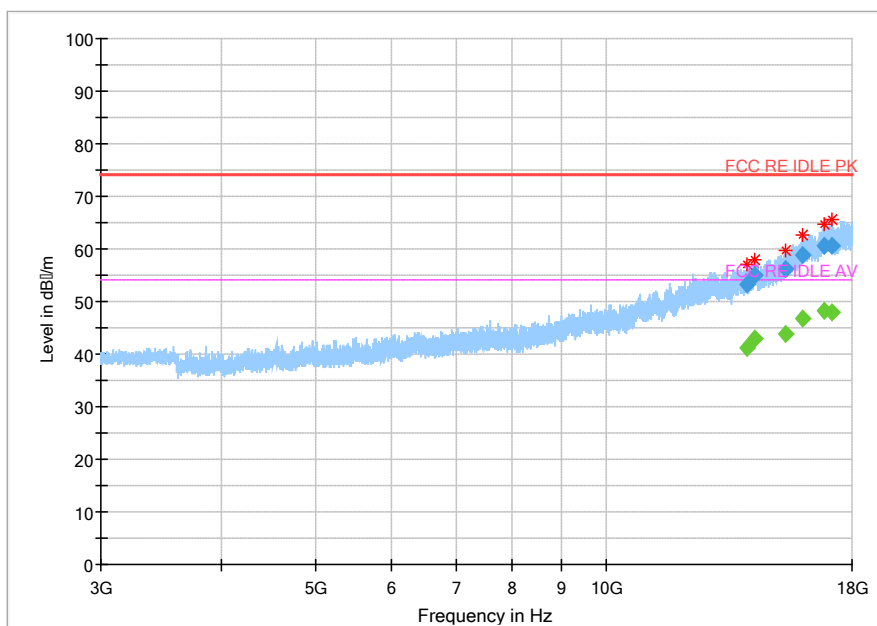


Fig.42 Radiated emission: GFSK, Ch78, 3GHz~18GHz

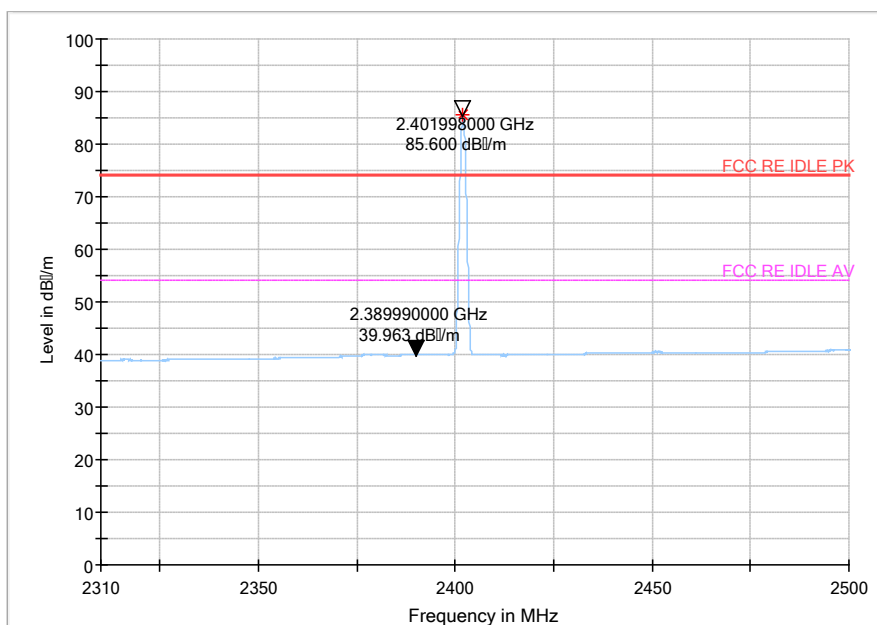
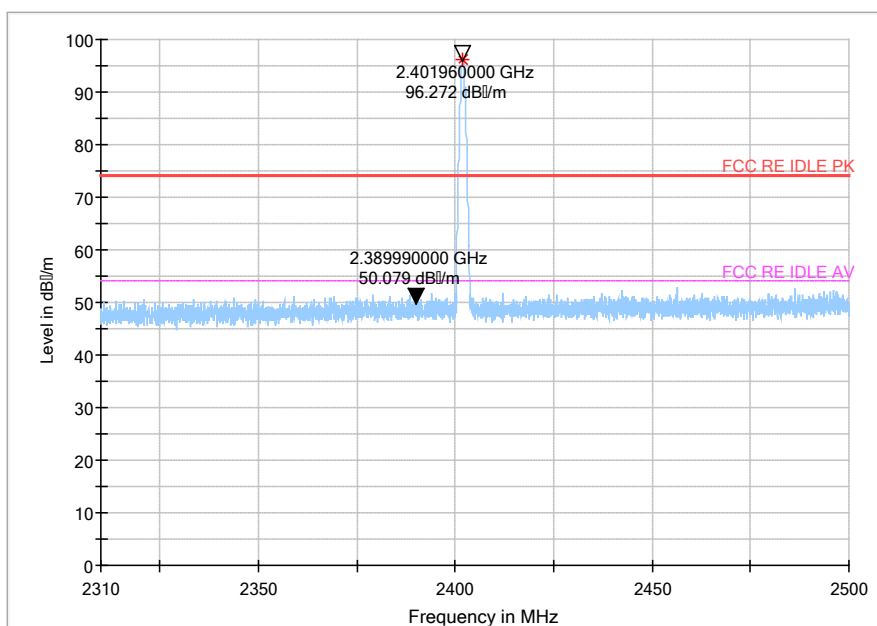


Fig.43 Radiated emission (Low): GFSK, low channel

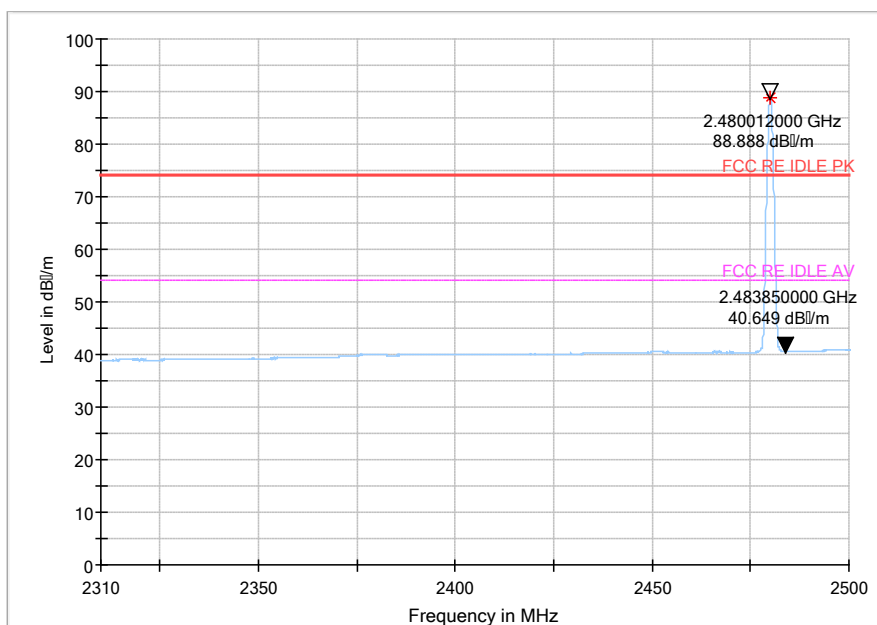
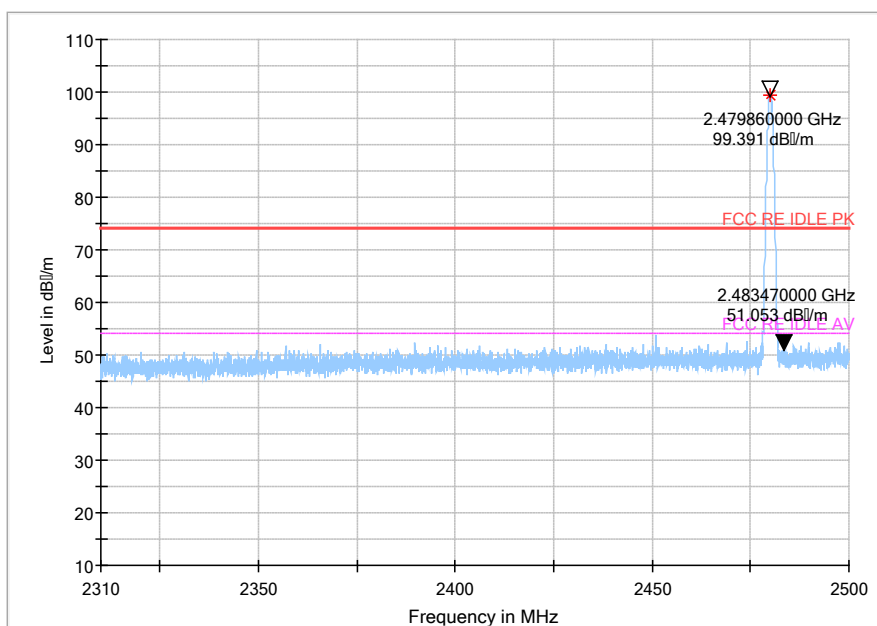


Fig.44 Radiated emission (High): GFSK, high channel

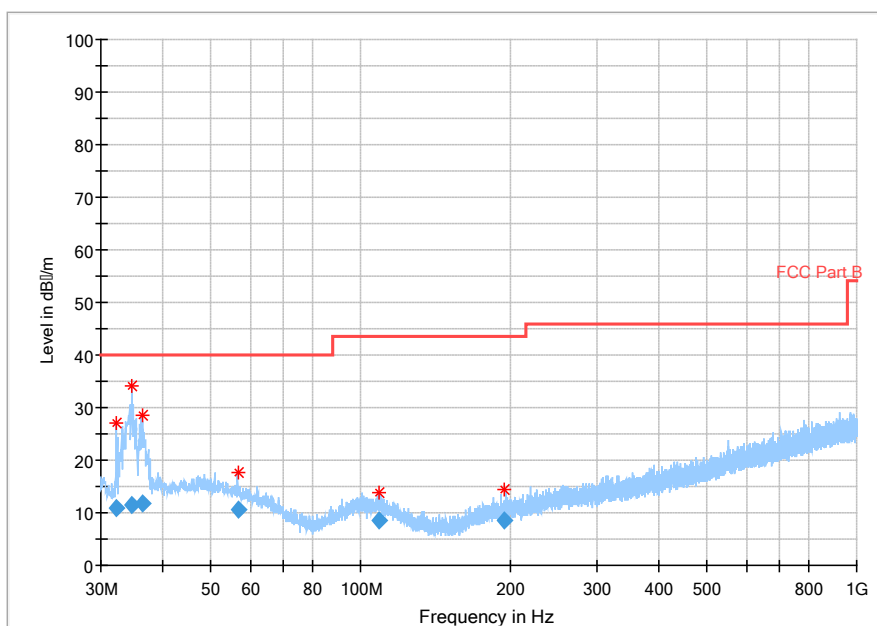


Fig.45 Radiated emission: $\pi/4$ DQPSK, Ch78, 30MHz~1GHz

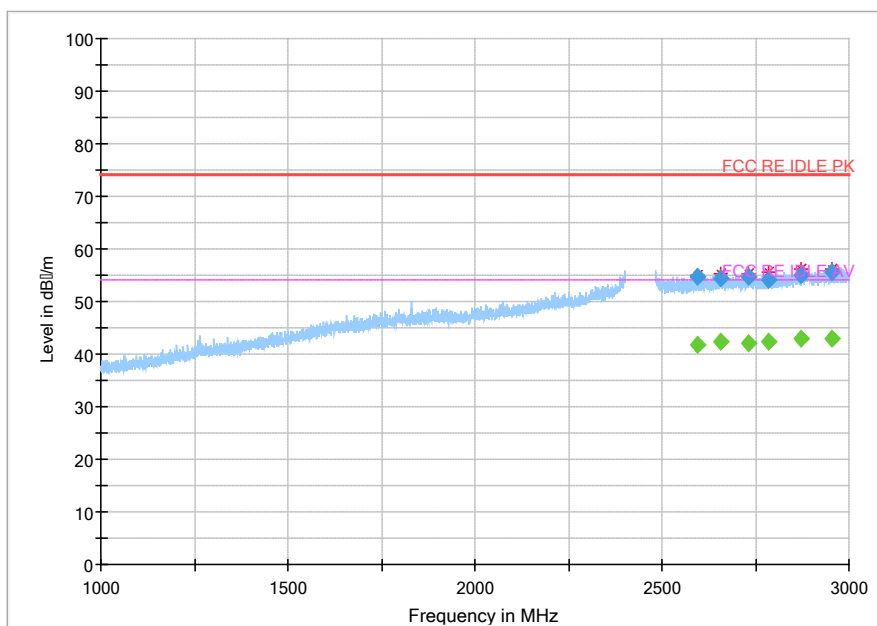


Fig.46 Radiated emission: $\pi/4$ DQPSK, Ch78, 1GHz~3GHz

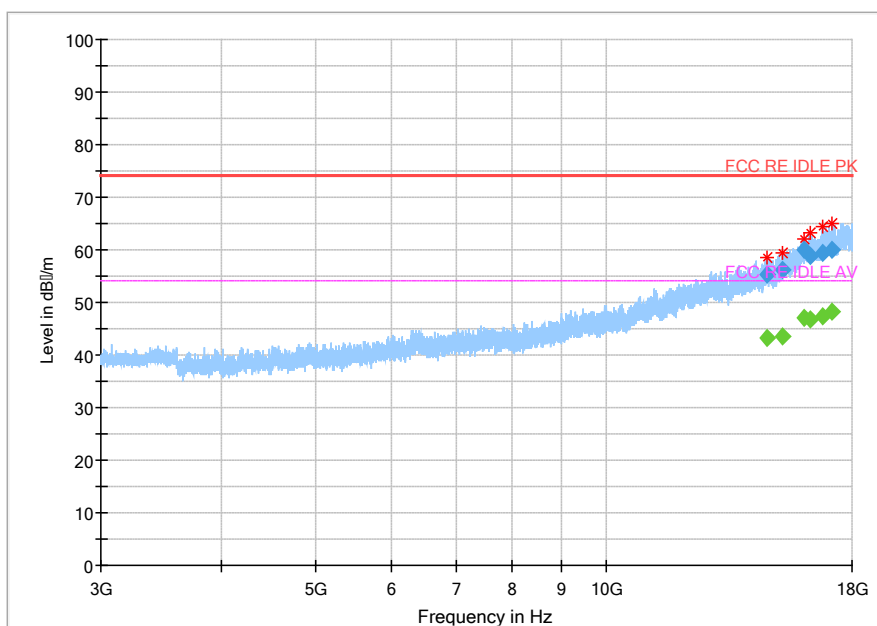
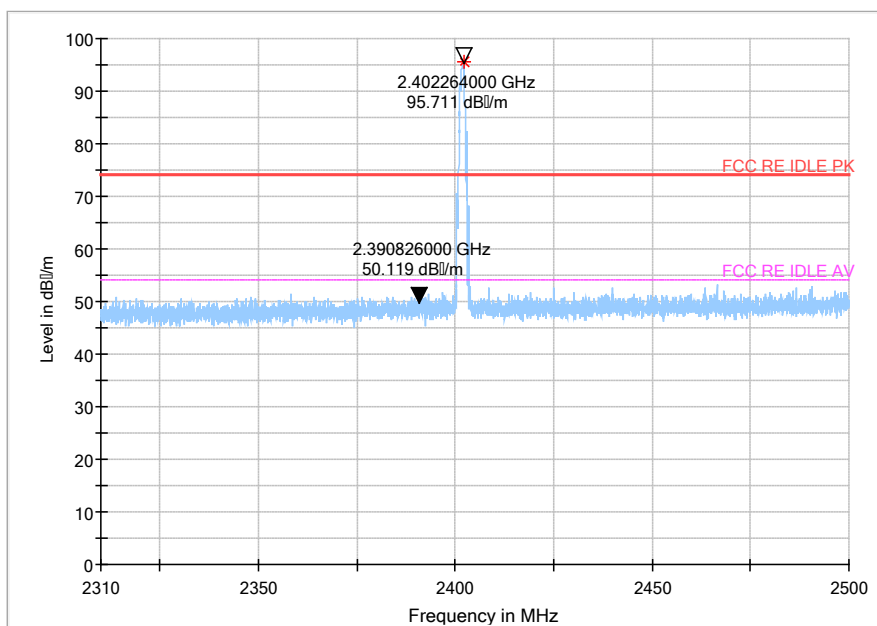


Fig.47 Radiated emission: $\pi/4$ DQPSK, Ch78, 3GHz~18GHz



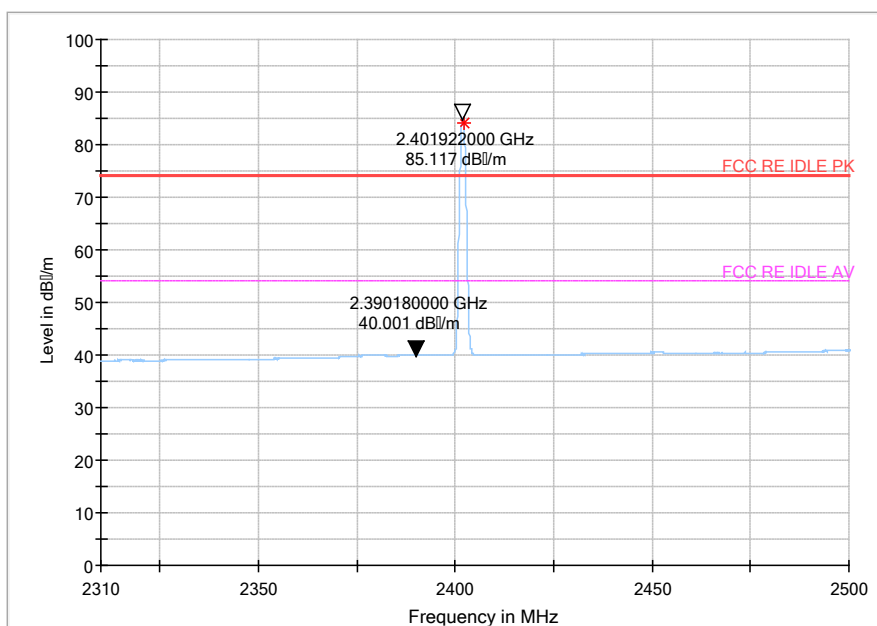
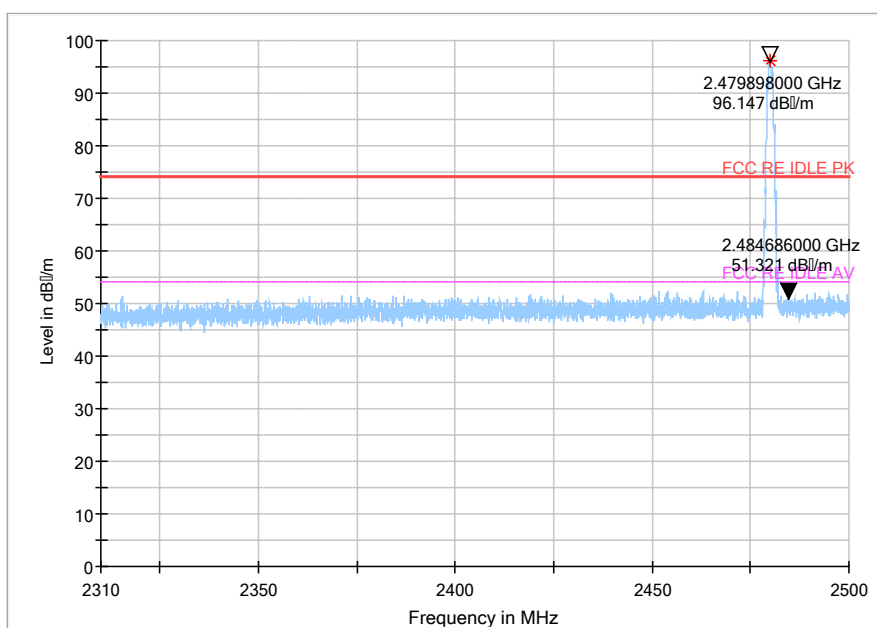


Fig.48 Radiated emission (Low): $\pi/4$ DQPSK, low channel



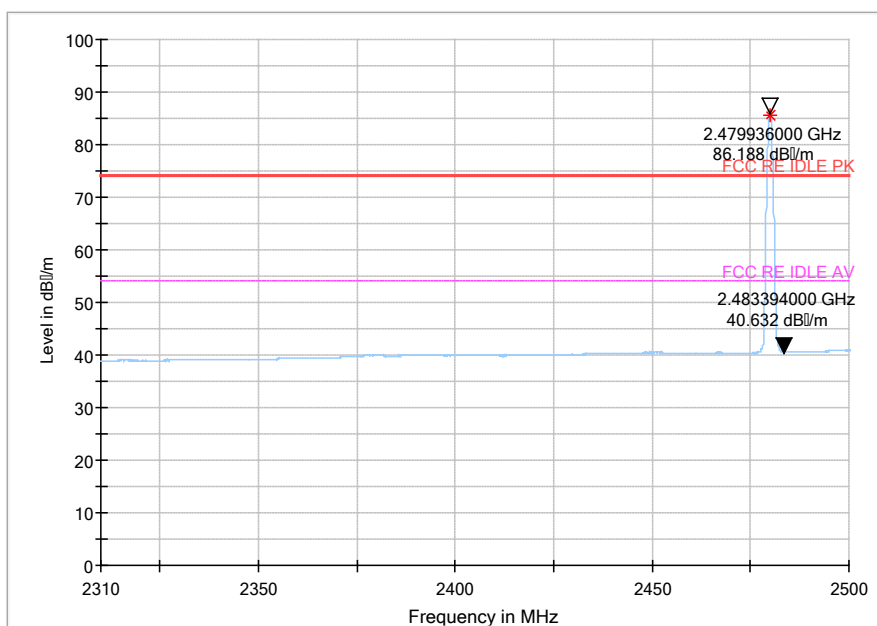


Fig.49 Radiated emission (High): $\pi/4$ DQPSK, high channel

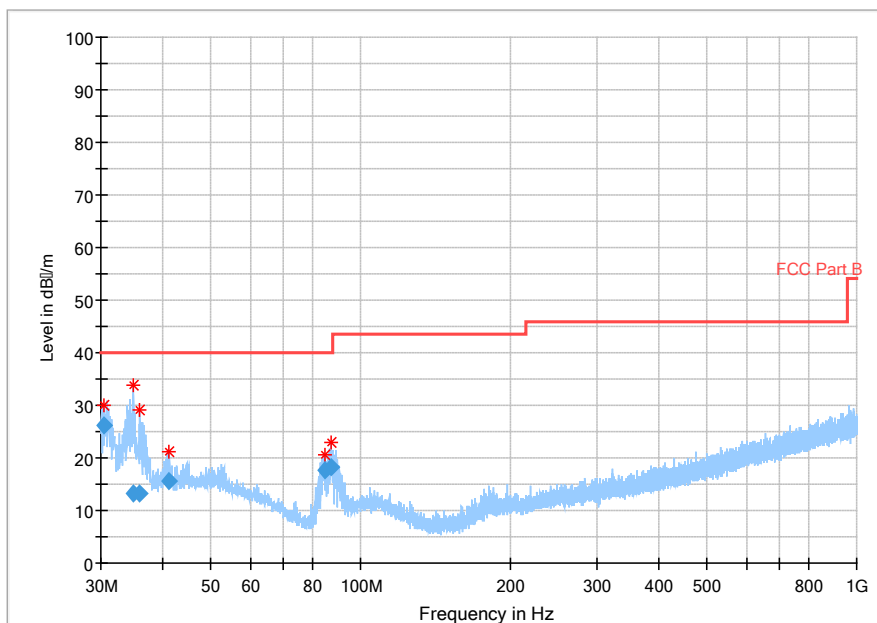


Fig.50 Radiated emission: 8DPSK, Ch78, 30MHz~1GHz

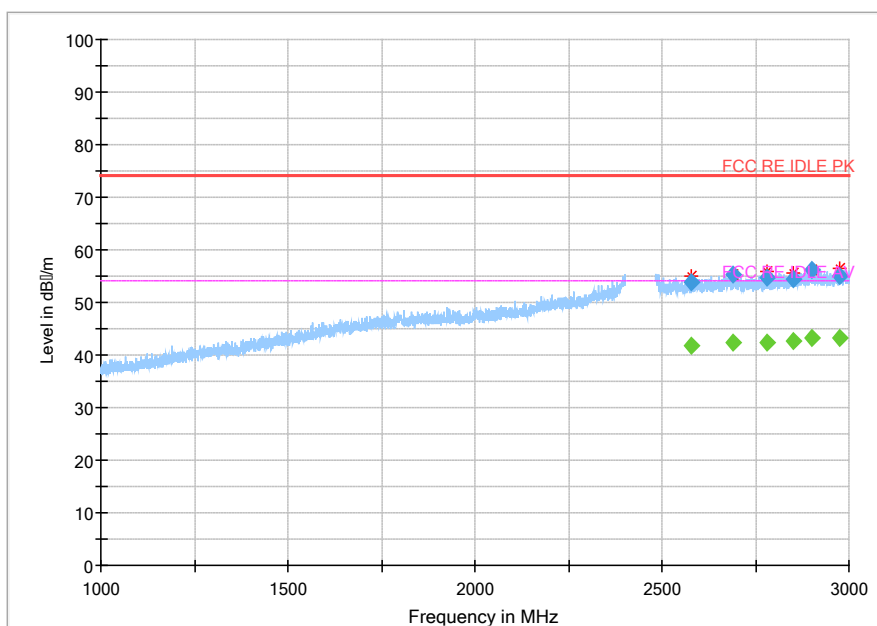


Fig.51 Radiated emission: 8DPSK, Ch78, 1GHz~3GHz

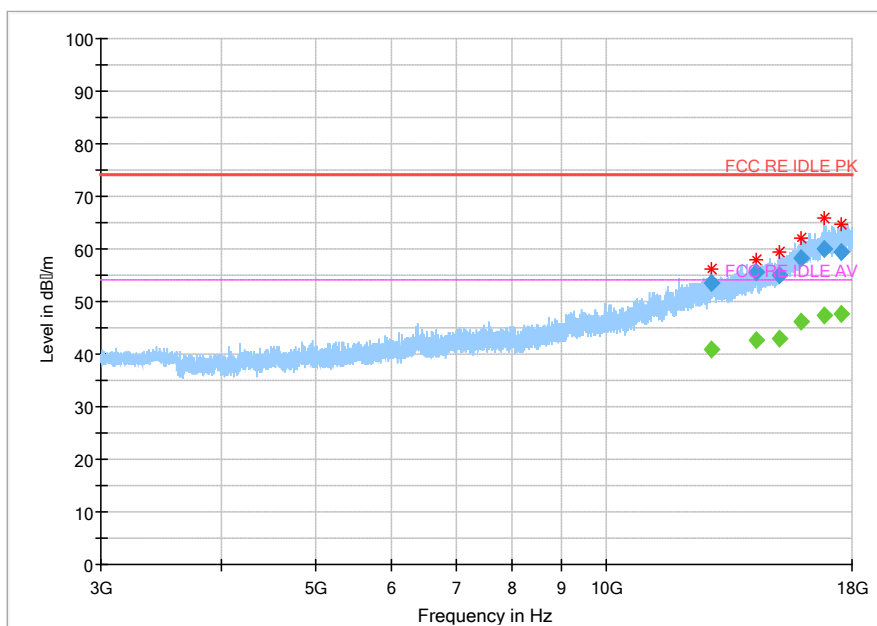


Fig.52 Radiated emission: 8DPSK, Ch78, 3GHz~18GHz

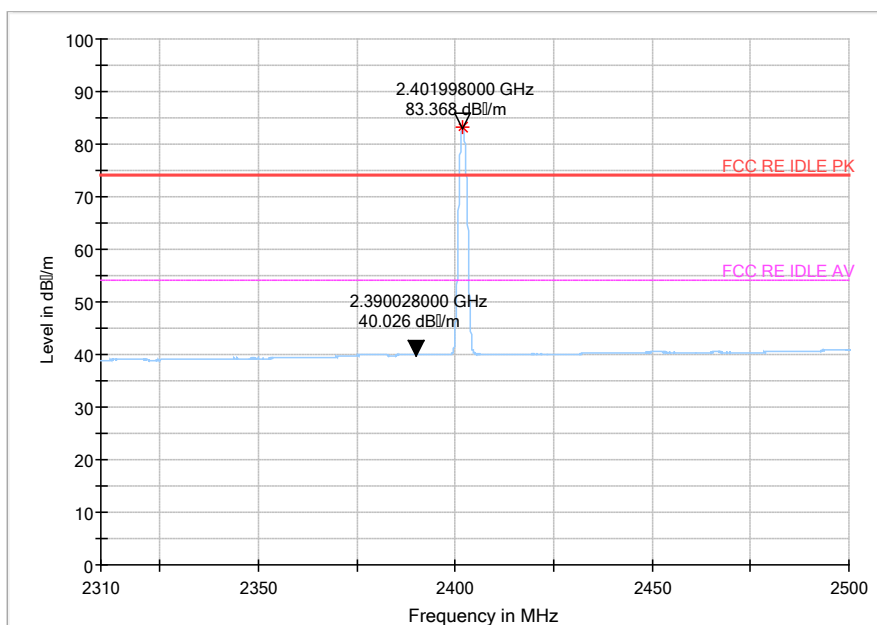
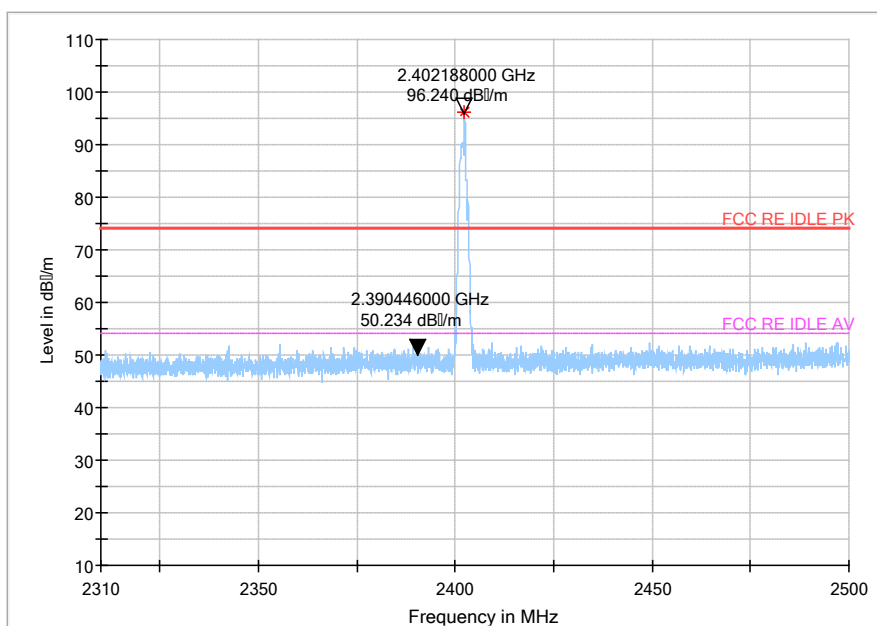


Fig.53 Radiated emission (Low): 8DPSK, low channel

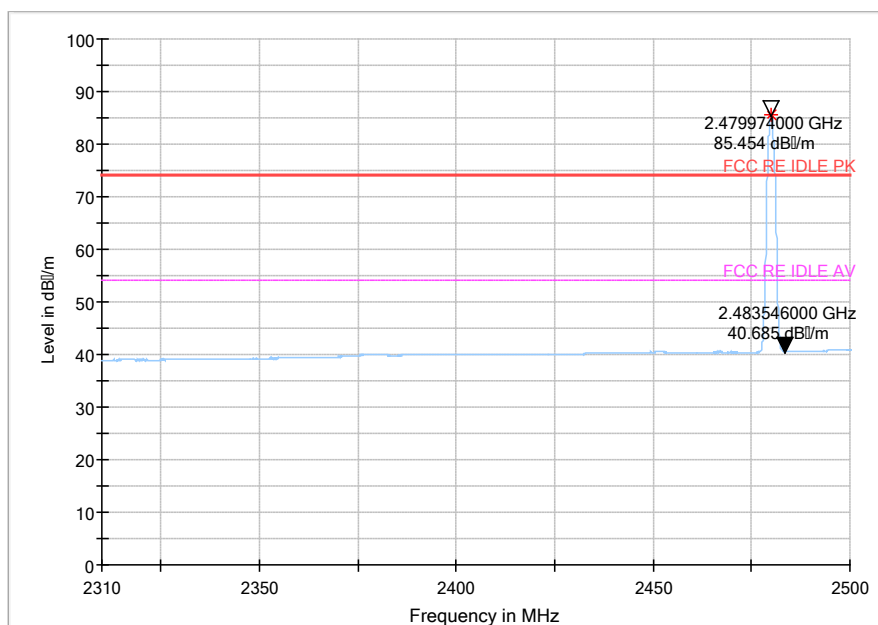
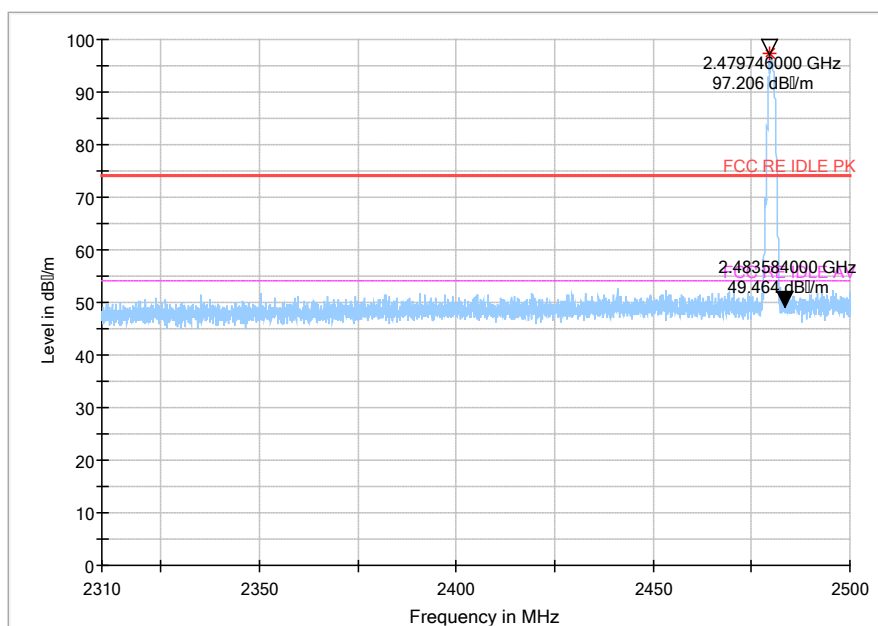
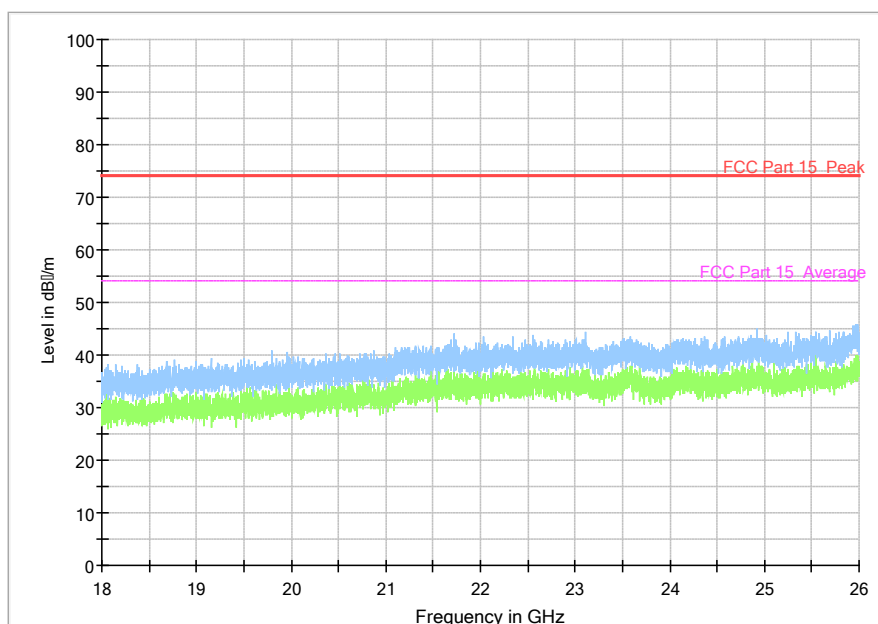


Fig.54 Radiated emission (High): 8DPSK, high channel



ALL Channel 18GHz~26GHz

6.5. Time Of Occupancy (Dwell Time)

6.5.1 Measurement Limit:

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

6.5.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.4

1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
2. Enable the EUT transmit maximum power.
3. Set the spectrum analyzer as step 4 to step 8.
4. Span: Zero span, centered on a hopping channel.
5. RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
6. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment

to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

7. Detector function: Peak.
8. Trace: Max hold.
9. Use the marker-delta function, and record it.

Note: For AFH mode, Test Period = 0.4 (second/ channel) x 20 Channel = 8 sec,
For FHSS mode, Test Period = 0.4 (second/ channel) x 79 Channel = 31.6 sec,
So the Time of Occupancy (Dwell Time) of AFH mode= Time of Occupancy (Dwell Time) of FHSS mode / 79 Channel x 20 Channel

Modulation type	Frequency(MHz)	Dwell Time (ms)	Limit(ms)	Conclusion
AFH(GFSK DH5)	2402-2421MHz	67.07	400	P
AFH($\pi/4$ DQPSK DH5)	2402-2421MHz	65.62	400	P
AFH(8DPSK DH5)	2402-2421MHz	62.43	400	P

6.5.3 Measurement Result

For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.55	61.25	P
		Fig.56		
	DH3	Fig.57	192.58	P
		Fig.58		
	DH5	Fig.59	264.96	P
		Fig.60		

For $\pi/4$ DQPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	2DH1	Fig.61	67.20	P
		Fig.62		
	2DH3	Fig.63	202.37	P

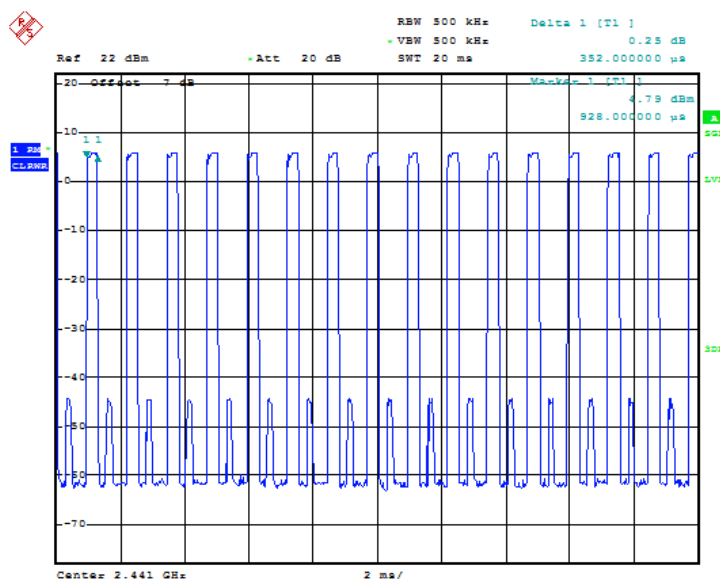
		Fig.64		
	2DH5	Fig.65	259.20	P
		Fig.66		

For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	3DH1	Fig.67	64.90	P
		Fig.68		
	3DH3	Fig.69	200.74	P
		Fig.70		
	3DH5	Fig.71	250.56	P
		Fig.72		

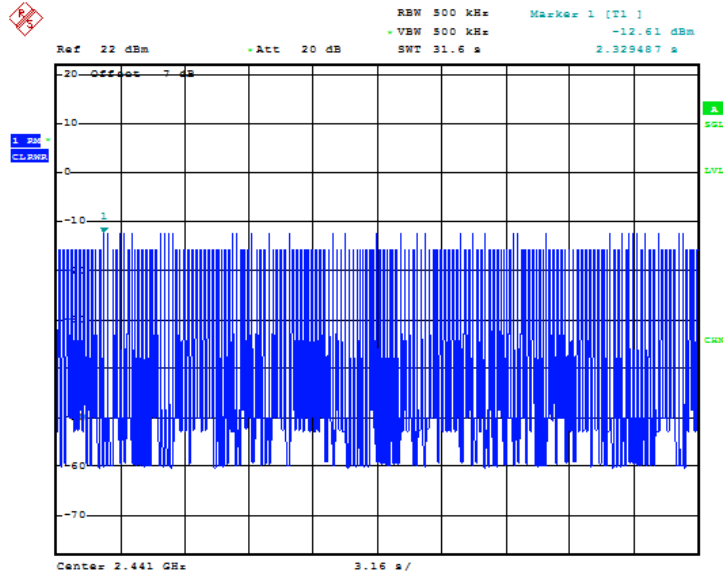
Conclusion: PASS

Test graphs as below:



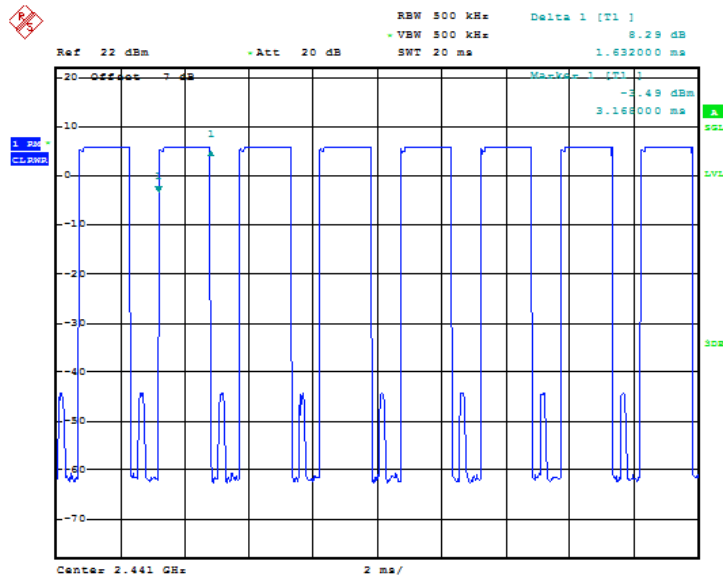
Date: 8.NOV.2018 08:26:15

Fig.55 Time of occupancy (Dwell Time): Ch39, Packet DH1



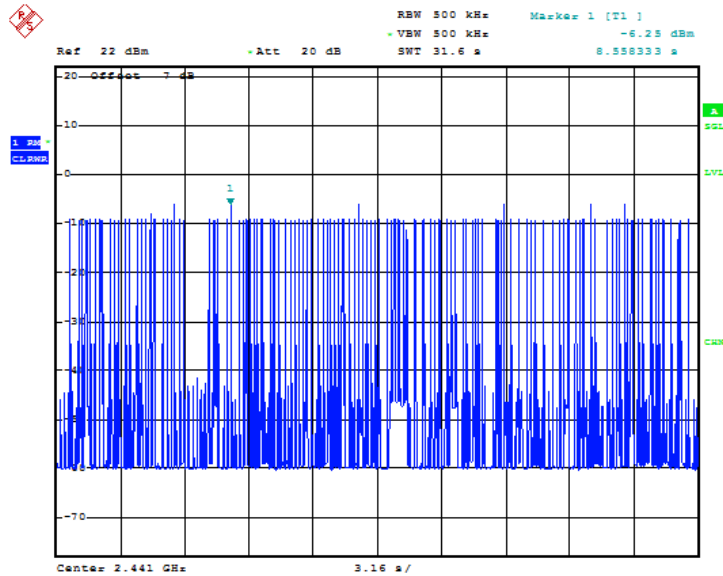
Date: 8.NOV.2018 08:27:12

Fig.56 Number of Transmissions Measurement: Ch39, Packet DH1



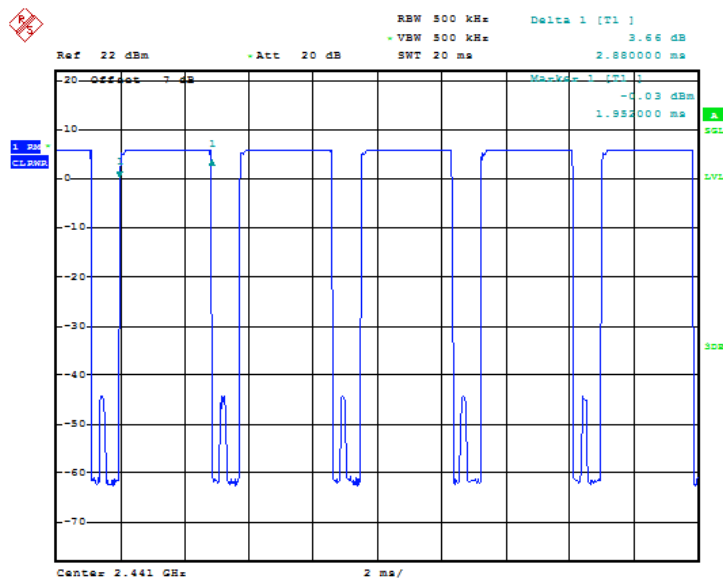
Date: 8.NOV.2018 08:27:33

Fig.57 Time of occupancy (Dwell Time): Ch39, Packet DH3



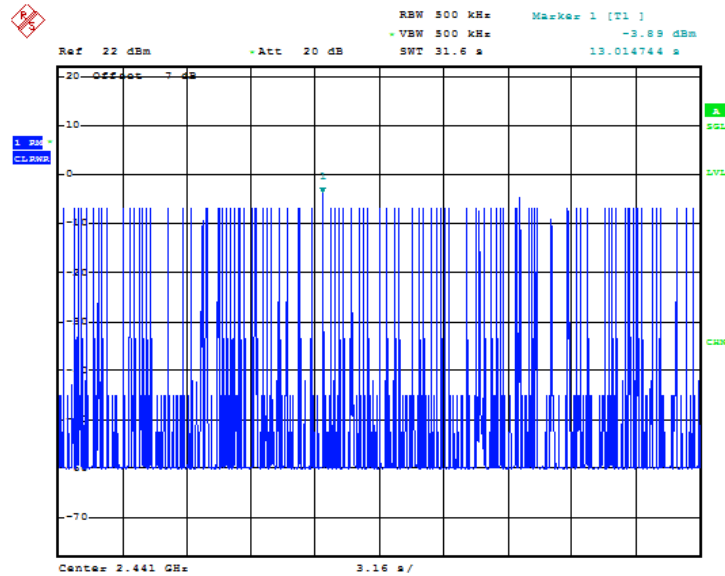
Date: 8.NOV.2018 08:28:31

Fig.58 Number of Transmissions Measurement: Ch39, Packet DH3



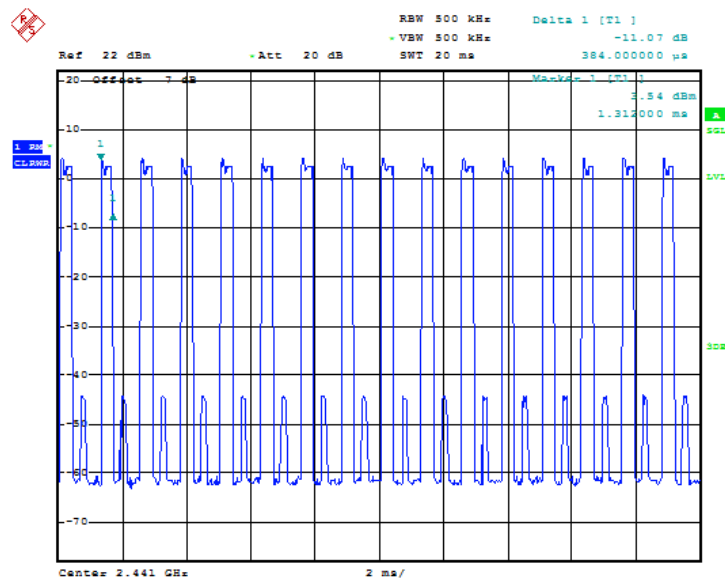
Date: 8.NOV.2018 08:28:52

Fig.59 Time of occupancy (Dwell Time): Ch39,Packet DH5



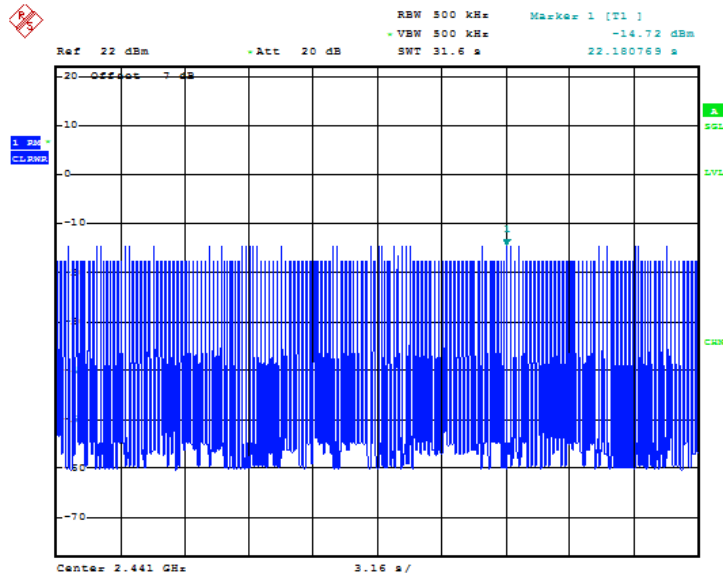
Date: 8.NOV.2018 08:29:49

Fig.60 Number of Transmissions Measurement: Ch39, Packet DH5



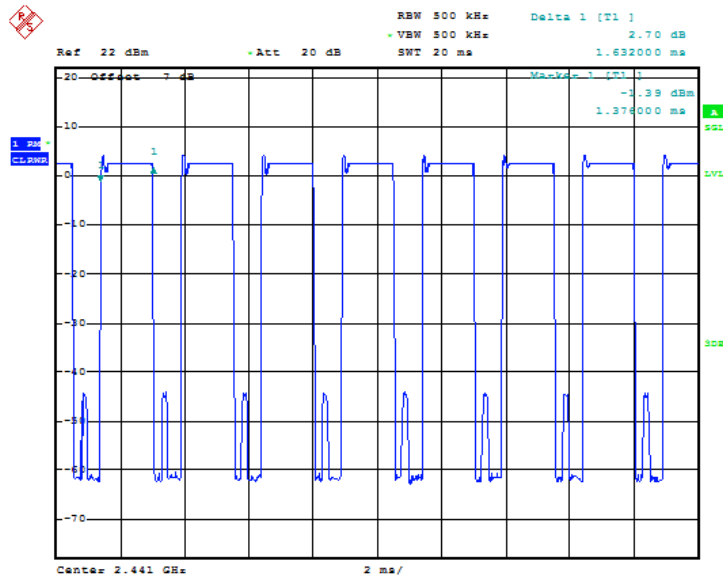
Date: 8.NOV.2018 08:30:11

Fig.61 Time of occupancy (Dwell Time): Ch39, Packet 2-DH1



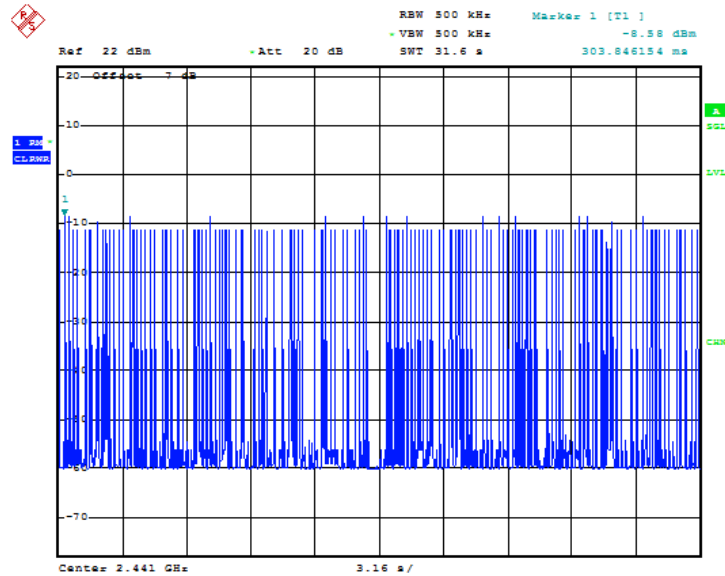
Date: 8.NOV.2018 08:31:08

Fig.62 Number of Transmissions Measurement: Ch39, Packet 2-DH1



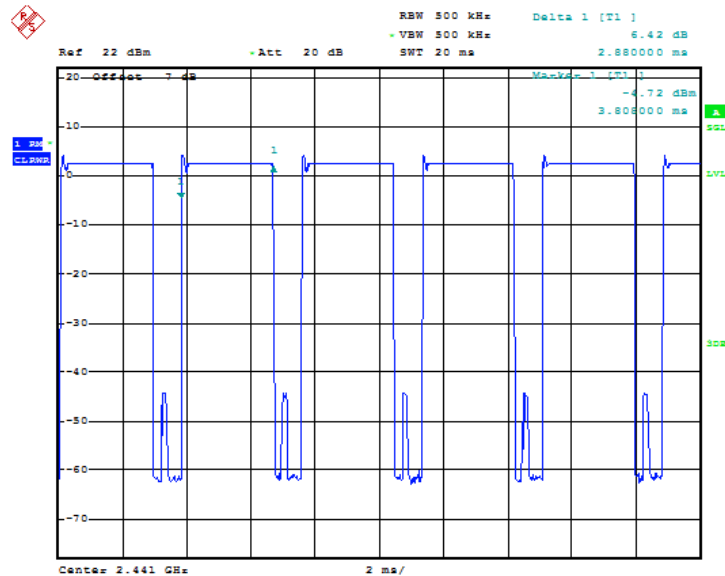
Date: 8.NOV.2018 08:31:30

Fig.63 Time of occupancy (Dwell Time): Ch39,Packet 2-DH3



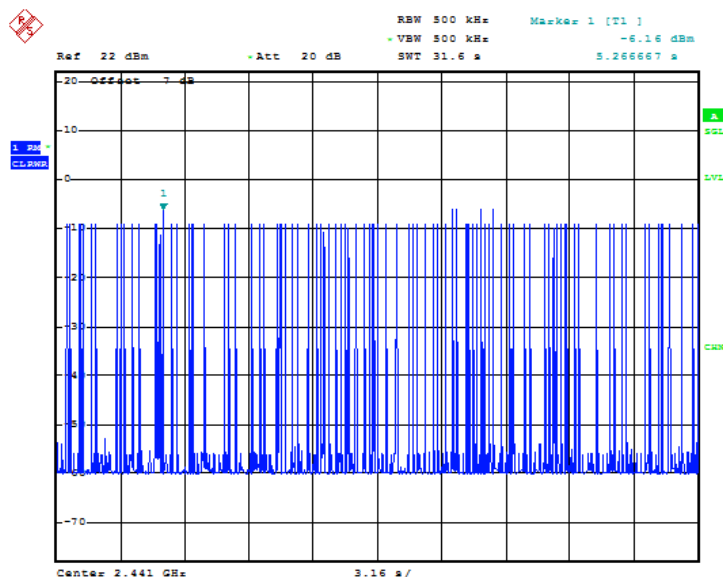
Date: 8.NOV.2018 08:32:27

Fig.64 Number of Transmissions Measurement: Ch39, Packet 2-DH3



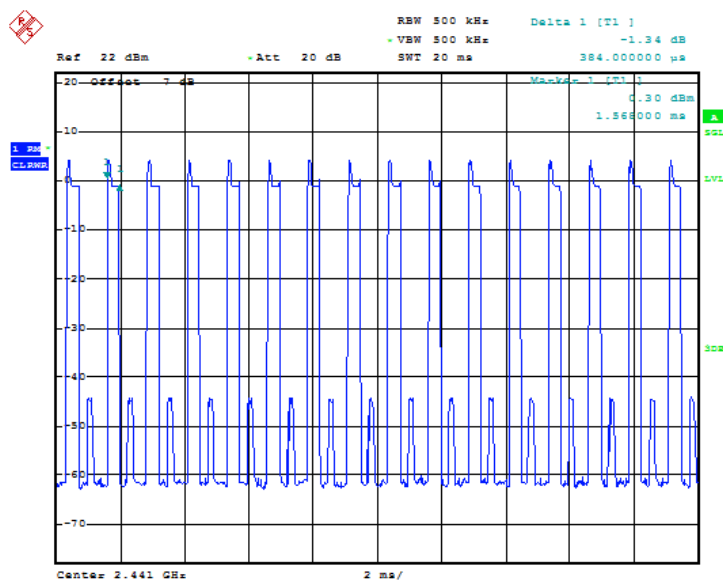
Date: 8.NOV.2018 08:32:49

Fig.65 Time of occupancy (Dwell Time): Ch39, Packet 2-DH5



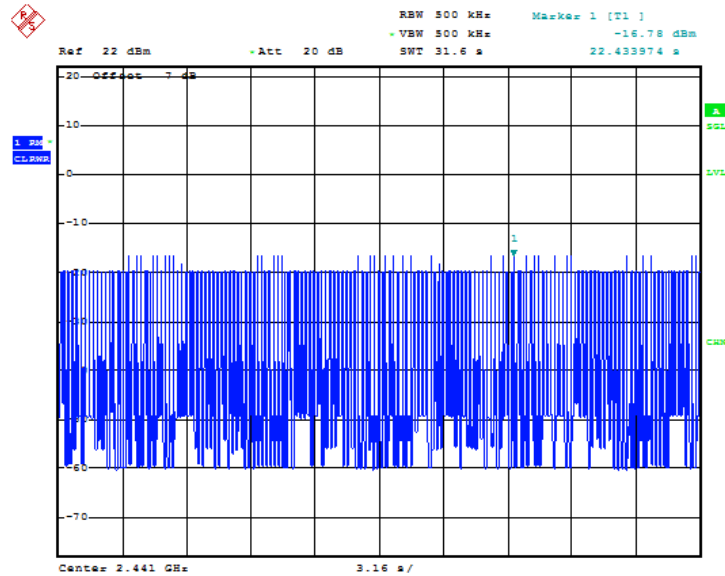
Date: 8.NOV.2018 08:33:46

Fig.66 Number of Transmissions Measurement: Ch39, Packet 2-DH5



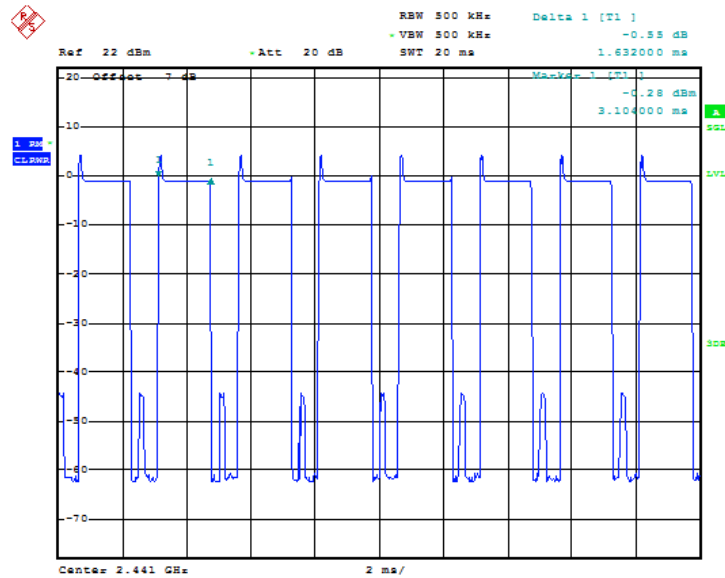
Date: 8.NOV.2018 08:34:08

Fig.67 Time of occupancy (Dwell Time): Ch39, Packet 3-DH1



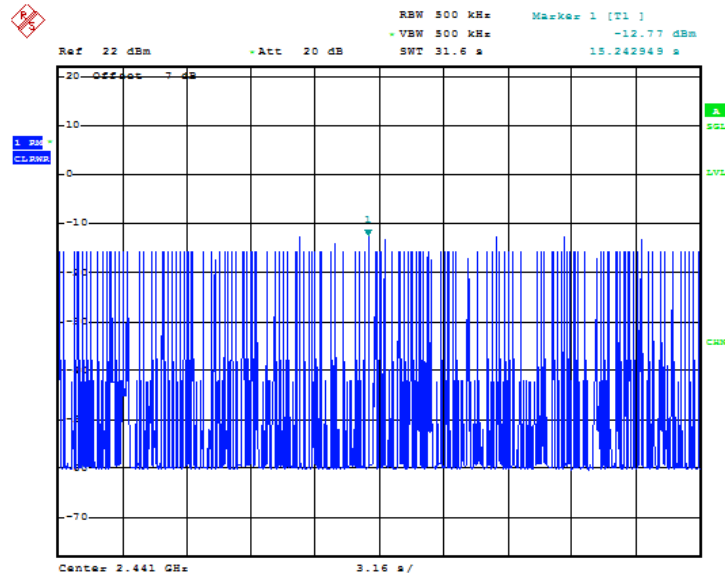
Date: 8.NOV.2018 08:35:05

Fig.68 Number of Transmissions Measurement: Ch39, Packet 3-DH1



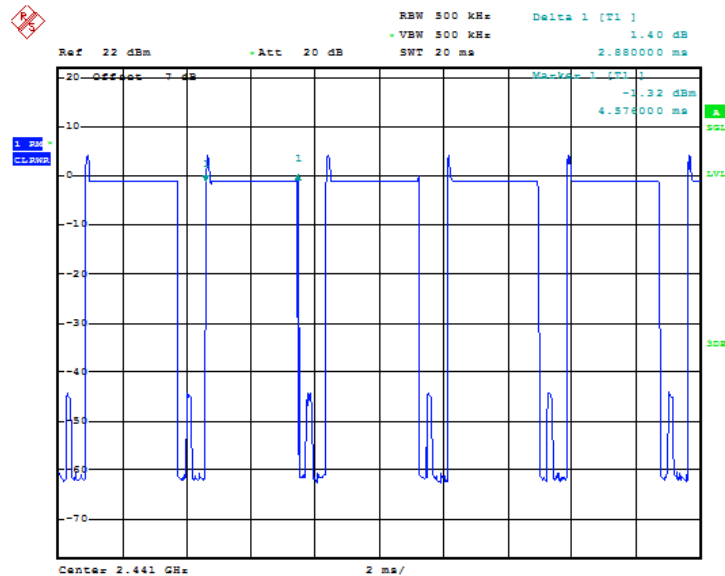
Date: 8.NOV.2018 08:35:27

Fig.69 Time of occupancy (Dwell Time): Ch39,Packet 3-DH3



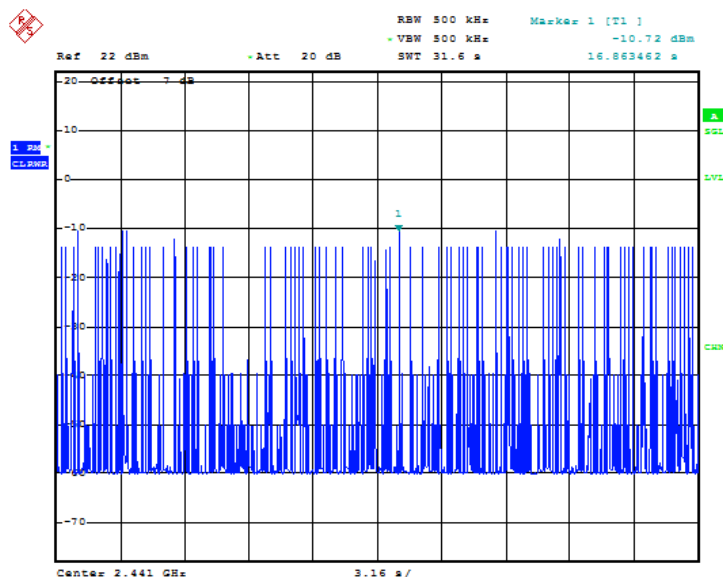
Date: 8.NOV.2018 08:36:24

Fig.70 Number of Transmissions Measurement: Ch39, Packet 3-DH3



Date: 8.NOV.2018 08:36:46

Fig.71 Time of occupancy (Dwell Time): Ch39, Packet 3-DH5



Date: 8.NOV.2018 08:37:43

Fig.72 Number of Transmissions Measurement: Ch39, Packet 3-DH5

6.6. 20dB Bandwidth

6.6.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (a) (1)	N/A

6.6.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.7

1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
2. Enable the EUT transmit maximum power.
3. Set the spectrum analyzer as step 4 to step 7.
4. Span: two or five times of OBW
5. RBW= 1% to 5% of the OBW; VBW is approximately three times of RBW; Max Hold.
6. Select the max peak, and N DB DOWN=20dB.
7. Record the results.

Measurement Result:

For GFSK

Channel	20dB Bandwidth (MHz)		Conclusion
0	Fig.73	1.034	P

39	Fig.74	1.034	P
78	Fig.75	1.029	P

For $\pi/4$ DQPSK

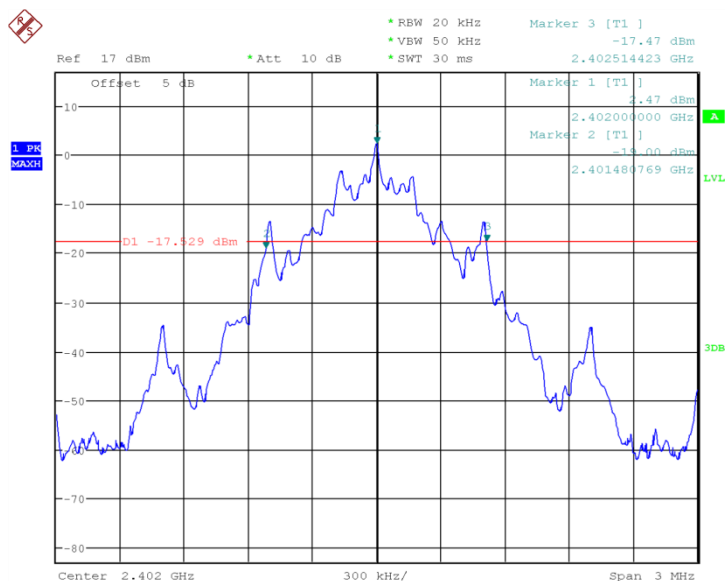
Channel	20dB Bandwidth (MHz)	Conclusion
0	Fig.76	1.091
39	Fig.77	1.091
78	Fig.78	1.091

For 8DPSK

Channel	20dB Bandwidth (MHz)	Conclusion
0	Fig.79	1.192
39	Fig.80	1.192
78	Fig.81	1.192

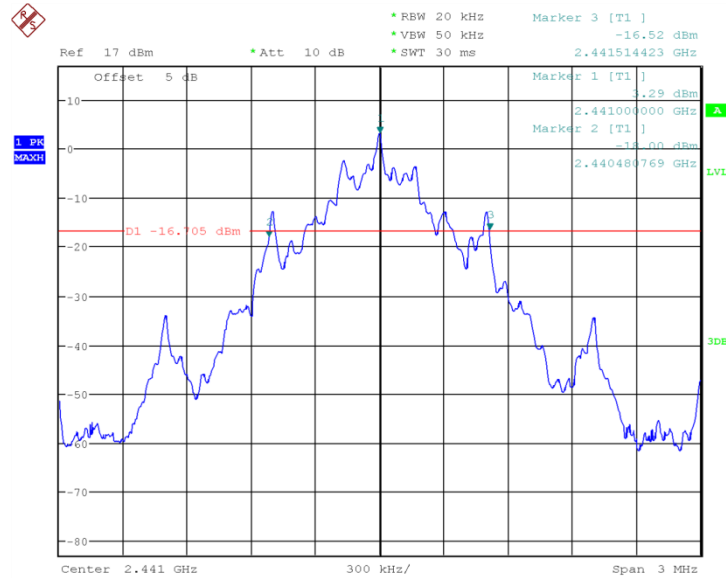
Conclusion: PASS

Test graphs as below:



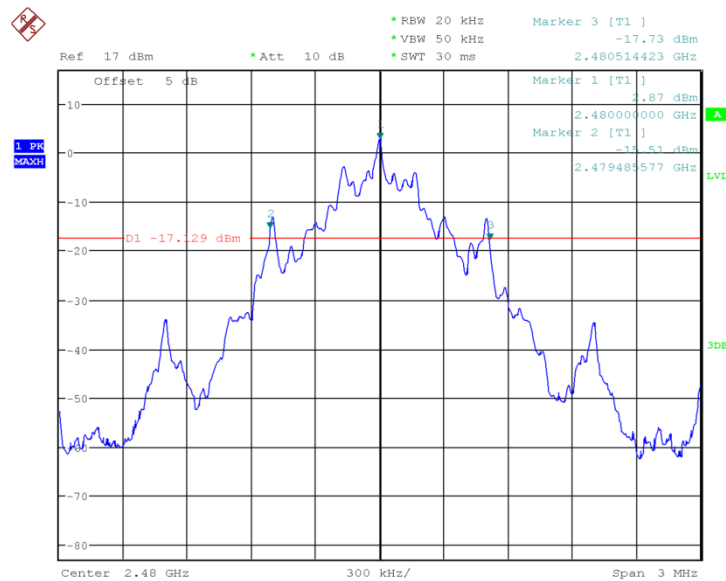
Date: 18.OCT.2018 04:27:14

Fig.73 20dB Bandwidth: GFSK, Ch0



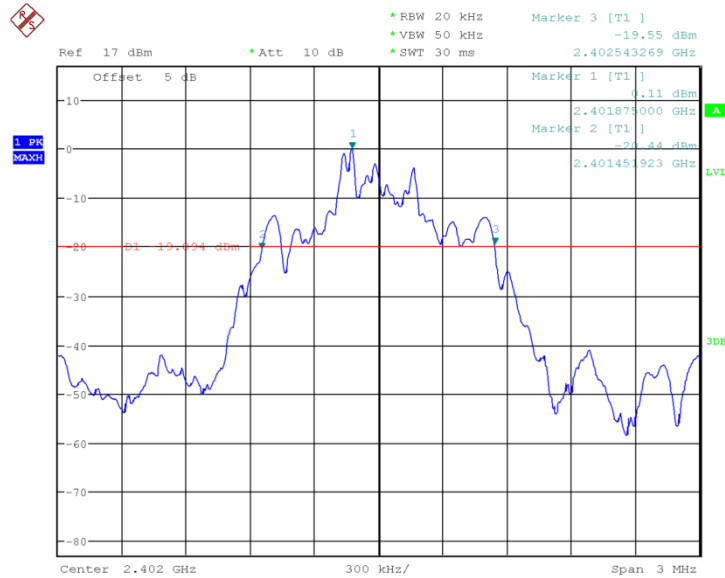
Date: 18.OCT.2018 04:27:31

Fig.74 20dB Bandwidth: GFSK, Ch39



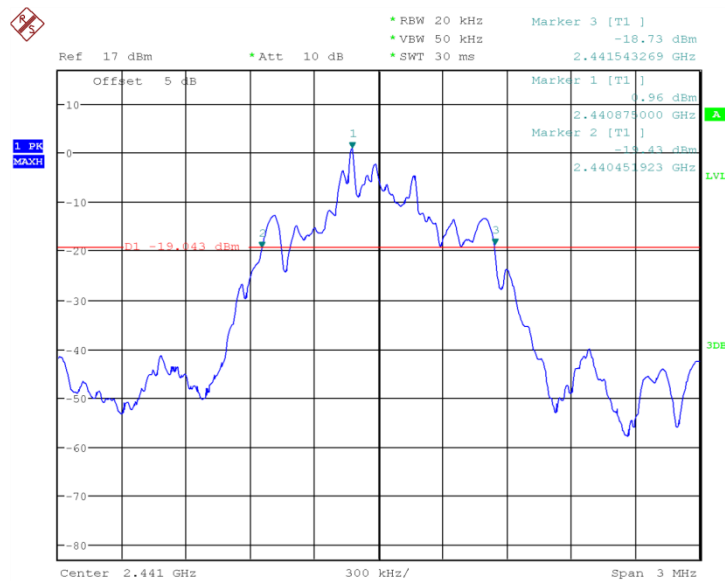
Date: 18.OCT.2018 04:27:48

Fig.75 20dB Bandwidth: GFSK, Ch78



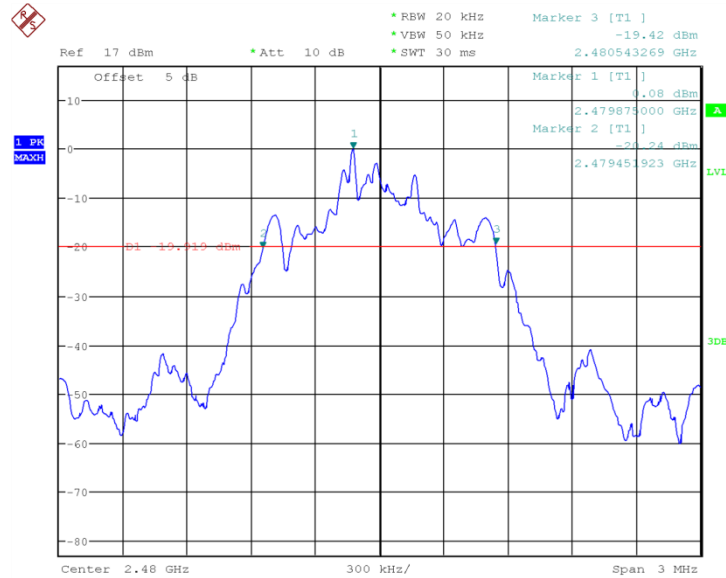
Date: 18.OCT.2018 04:28:04

Fig.76 20dB Bandwidth: $\pi/4$ DQPSK, Ch0



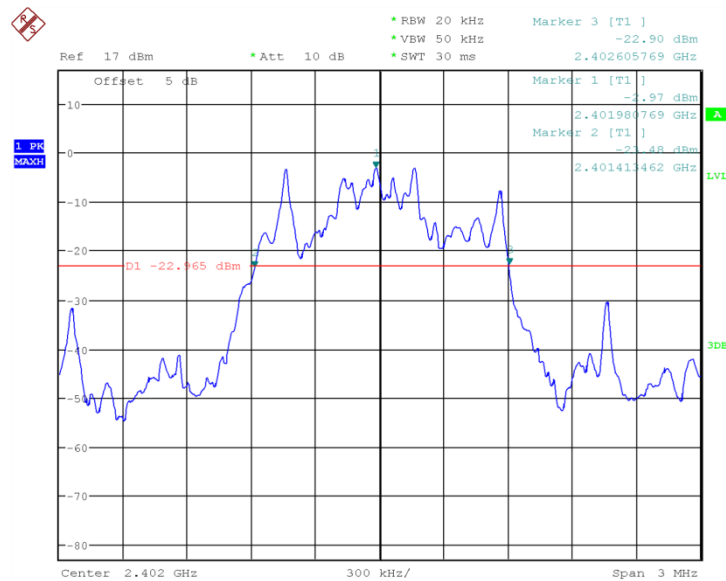
Date: 18.OCT.2018 04:28:21

Fig.77 20dB Bandwidth: $\pi/4$ DQPSK, Ch39



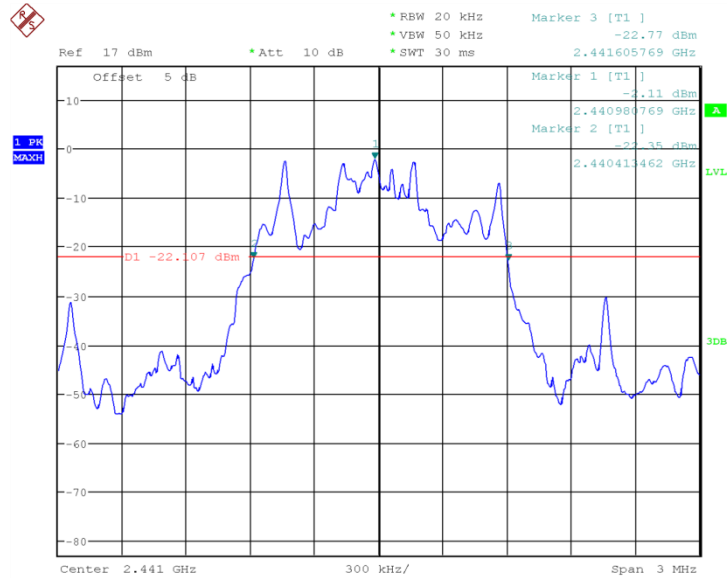
Date: 18.OCT.2018 04:28:37

Fig.78 20dB Bandwidth: $\pi/4$ DQPSK, Ch78



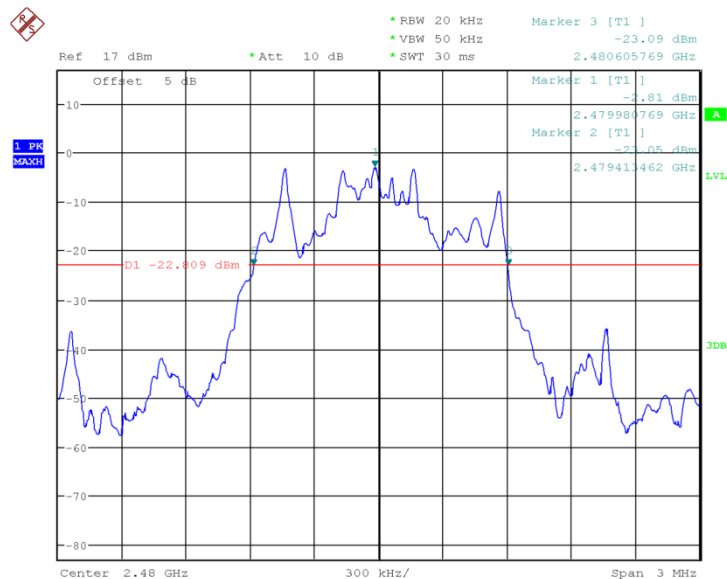
Date: 18.OCT.2018 04:28:54

Fig.79 20dB Bandwidth: 8DPSK, Ch0



Date: 18.OCT.2018 04:29:10

Fig.80 20dB Bandwidth: 8DPSK, Ch39



Date: 18.OCT.2018 04:29:26

Fig.81 20dB Bandwidth: 8DPSK, Ch78

6.7. Carrier Frequency Separation

6.7.1 Measurement Limit:

Standard	Limit (KHz)
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FCC 47 CFR Part 15.247 (a) (1)	Over 25KHz or (2/3)*20dB bandwidth
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6.7.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.2.

1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
2. Enable the EUT transmit in hopping mode.
3. Span: Wide enough to capture the peaks of two adjacent channels.
4. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
5. Video (or average) bandwidth (VBW) $\geq$ RBW.
6. Sweep: Auto.
7. Detector function: Peak.
8. Trace: Max hold.
9. Allow the trace to stabilize.

6.7.3 Measurement Result:

For GFSK

Channel	Carrier separation (KHz)		Conclusion
39	Fig.82	971.1538	P

For $\pi/4$ DQPSK

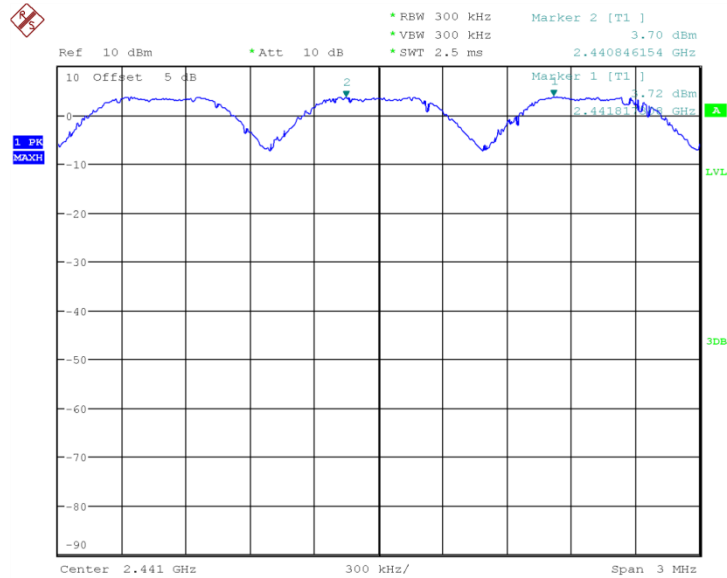
Channel	Carrier separation (KHz)		Conclusion
39	Fig.83	1014.4231	P

For 8DPSK

Channel	Carrier separation (KHz)		Conclusion
39	Fig.84	1004.8077	P

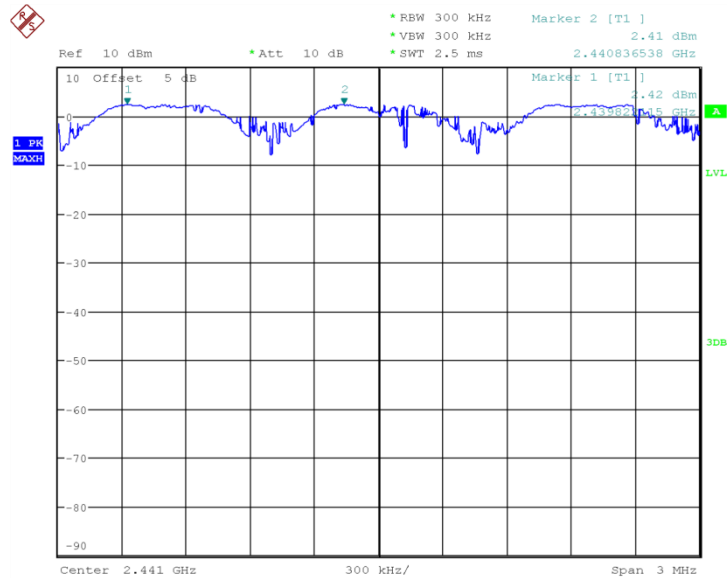
Conclusion: PASS

Test graphs as below:



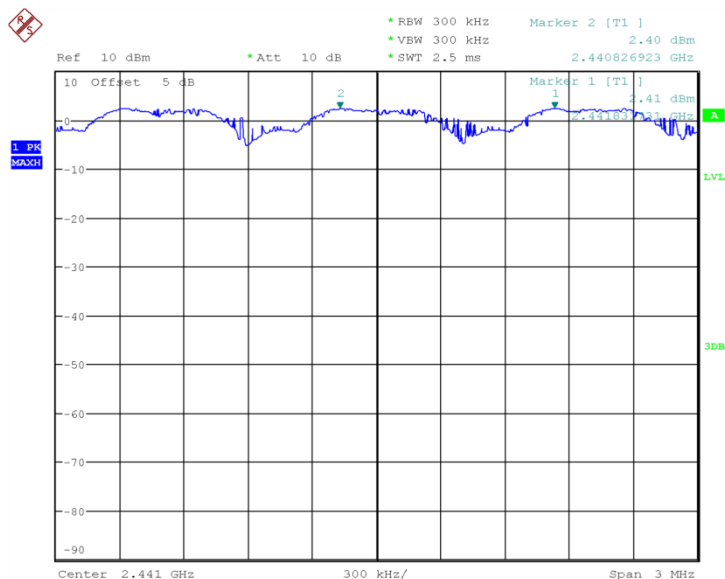
Date: 18.OCT.2018 04:31:13

Fig.82 Carrier separation measurement: GFSK, Ch39



Date: 18.OCT.2018 04:32:26

Fig.83 Carrier separation measurement: $\pi/4$ DQPSK, Ch39



Date: 18.OCT.2018 04:33:40

Fig.84 Carrier separation measurement: 8DPSK, Ch39

6.8. Number Of Hopping Channels

6.8.1 Measurement Limit:

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

6.8.2 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.3.

1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
2. Enable the EUT transmit in hopping mode.
3. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
4. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
5. VBW $\geq$ RBW.
6. Sweep: Auto.
7. Detector function: Peak.
8. Trace: Max hold.
9. Allow the trace to stabilize.
10. Record the test results.

6.8.3 Measurement Result:

For GFSK

Channel	Number of hopping channels		Conclusion
0~39	Fig.85	79	P
40~78	Fig.86		P

For $\pi/4$ DQPSK

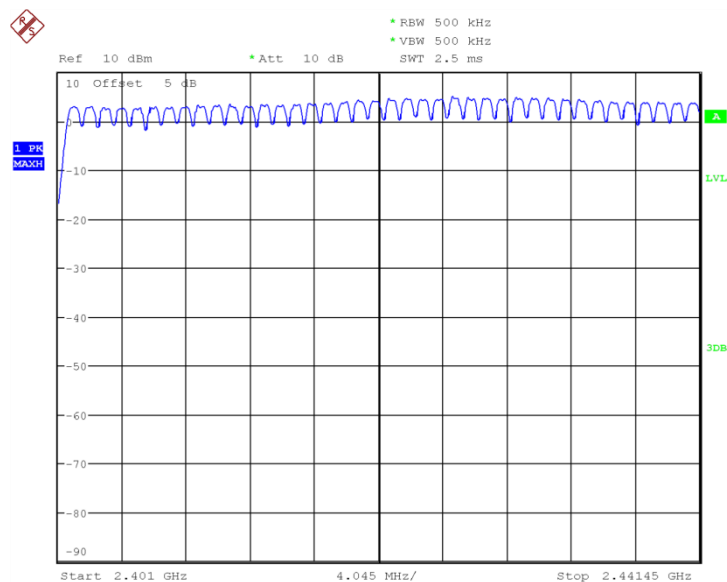
Channel	Number of hopping channels		Conclusion
0~39	Fig.87	79	P
40~78	Fig.88		P

For 8DPSK

Channel	Number of hopping channels		Conclusion
0~39	Fig.89	79	P
40~78	Fig.90		P

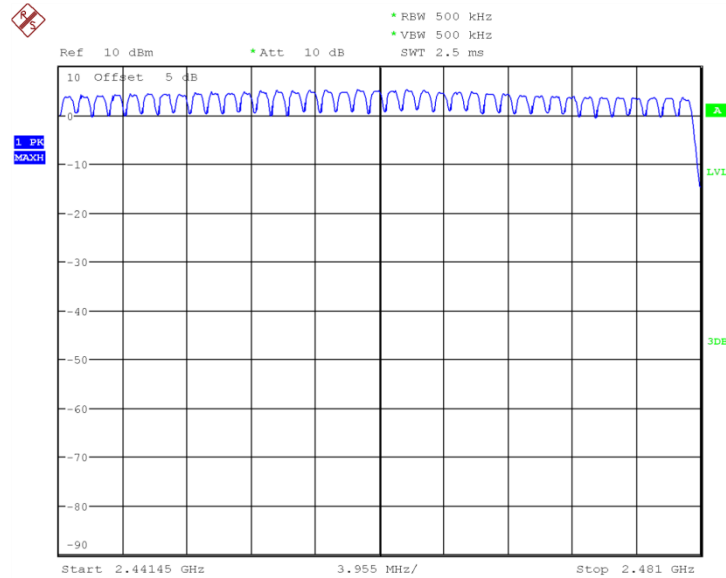
Conclusion: PASS

Test graphs as below:



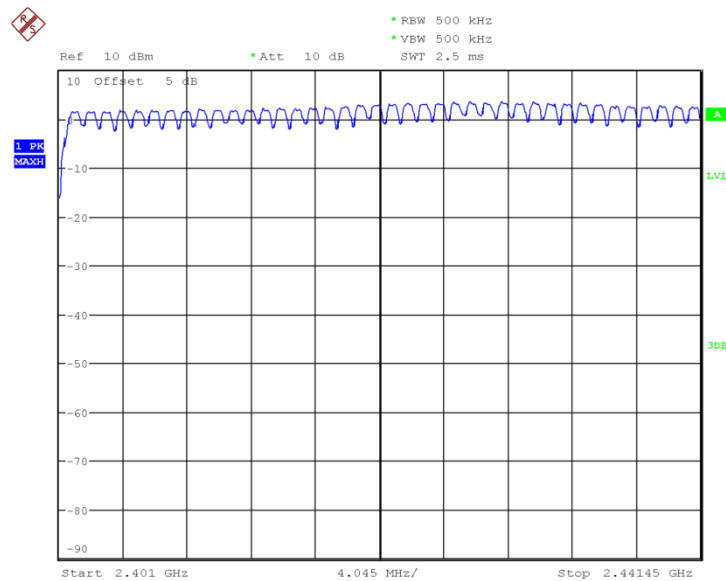
Date: 18.OCT.2018 04:36:18

Fig.85 Number of hopping frequency: GFSK, Ch0~39



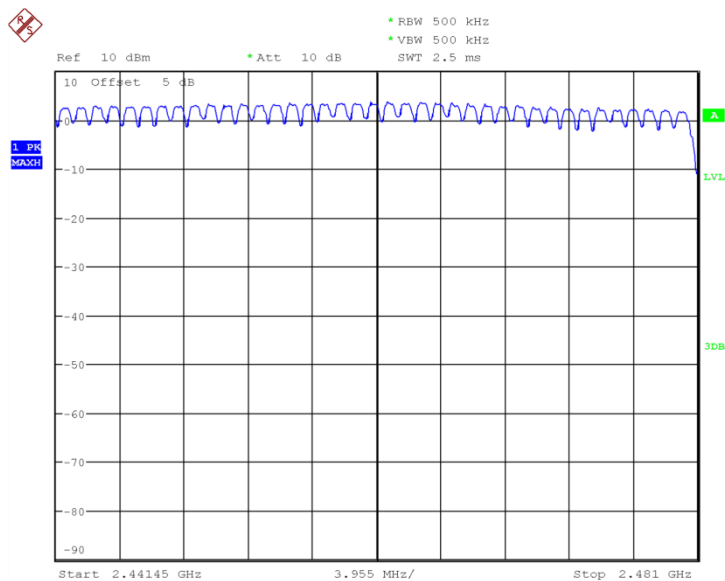
Date: 18.OCT.2018 04:38:23

Fig.86 Number of hopping frequency: GFSK, Ch40~78



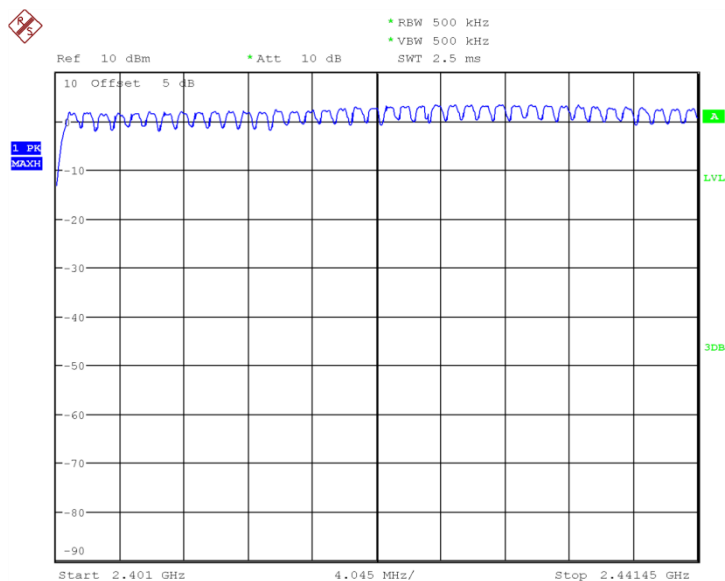
Date: 18.OCT.2018 04:40:28

Fig.87 Number of hopping frequency: $\pi/4$ DQPSK, Ch0~39



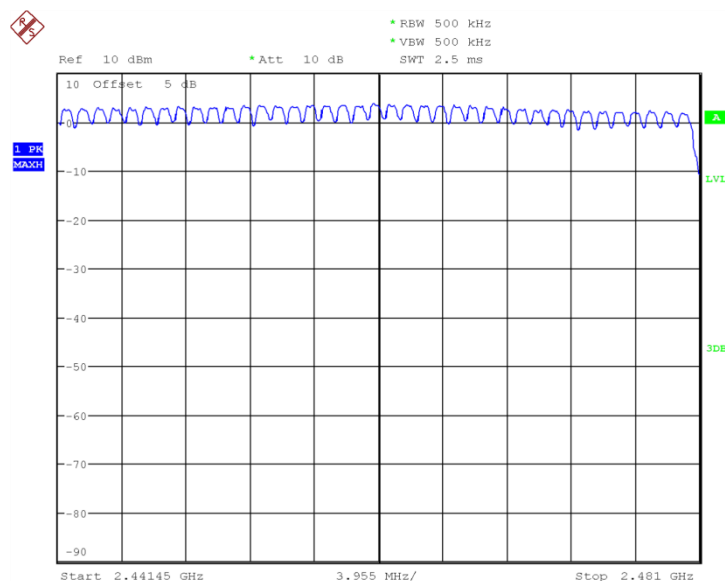
Date: 18.OCT.2018 04:42:33

Fig.88 Number of hopping frequency: $\pi/4$ DQPSK, Ch40~78



Date: 18.OCT.2018 04:44:38

Fig.89 Number of hopping frequency: 8DPSK, Ch0~39



Date: 18.OCT.2018 04:46:43

Fig.90 Number of hopping frequency: 8DPSK, Ch40~78

6.9. AC Powerline Conducted Emission

Method of Measurement: See ANSI C63.10-2013-clause 6.2

- 1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
- 2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- 3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- 4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a

non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

(Quasi-peak-average Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			With charger	
			BT	
0.15 to 0.5	66 to 56	56 to 46	Fig.91	P
0.5 to 5	56	46		
5 to 30	60	50		

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

Conclusion: Pass

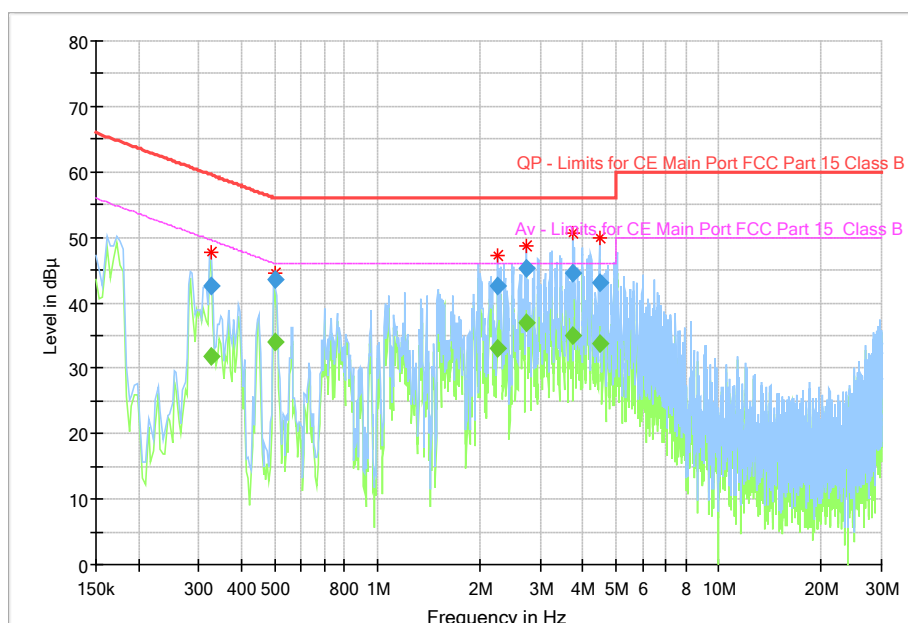


Fig.91 AC Powerline Conducted Emission

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
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RF Test Report

Report No.: I18D00205-SRD01

0.325369	42.47	---	59.57	17.09	1000.0	9.000	N	ON	9.7
0.325369	---	31.73	49.57	17.83	1000.0	9.000	N	ON	9.7
0.500738	43.67	---	56.00	12.33	1000.0	9.000	L1	ON	9.7
0.500738	---	33.94	46.00	12.06	1000.0	9.000	L1	ON	9.7
2.250694	42.50	---	56.00	13.50	1000.0	9.000	L1	ON	9.7
2.250694	---	33.01	46.00	12.99	1000.0	9.000	L1	ON	9.7
2.732025	45.21	---	56.00	10.79	1000.0	9.000	L1	ON	9.7
2.732025	---	36.99	46.00	9.01	1000.0	9.000	L1	ON	9.7
3.758119	44.53	---	56.00	11.47	1000.0	9.000	L1	ON	9.7
3.758119	---	34.97	46.00	11.03	1000.0	9.000	L1	ON	9.7
4.467056	43.02	---	56.00	12.98	1000.0	9.000	L1	ON	9.7
4.467056	---	33.65	46.00	12.35	1000.0	9.000	L1	ON	9.7

7. Test Equipment and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Cal.interval
1	Vector Signal	FSQ26	101091	Rohde&Schwarz	2018-05-11	1 Year
2	DC Power Supply	ZUP60-14	LOC-220Z006	TDL-Lambda	2018-05-11	1 Year
3	Bluetooth Tester	CBT32	100785	Rohde&Schwarz	2018-05-11	1 Year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Cal.interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2018-05-11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2018-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2017-02-25	3 Year
4	Double- ridged Waveguide Antenna	ETS-3117	00135890	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV216	101380	R&S	2018-05-11	1 Year

Anechoic chamber

Fully anechoic chamber by Frankonia German.

8. Test Environment

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

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

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

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

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

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

ANNEX A. Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

ANNEX B. Accreditation Certificate

*****END OF REPORT*****