





FCC PART 15C TEST REPORT

No. I20Z62070-IOT01

for

TCL Communication Ltd.

GSM/UMTS/LTE mobile phone

Model Name: T7730

FCC ID: 2ACCJN045

with

Hardware Version: 03

Software Version: v3.0.9D1Y

Issued Date: 2021-1-13

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Conducted testing Location: CTTL(CuiHu)

Address: Cuihu Cloud Center, No. 1, Gaolizhang Road, Wenquan,

Haidian District, Beijing, China

Radiated testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,

P. R. China100191





1.3. Testing Environment

Normal Temperature: $15-35^{\circ}$ C Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2020-11-24
Testing End Date: 2021-1-13

1.5. Signature

Wu Le

(Prepared this test report)

Sun Zhenyu

(Reviewed this test report)

Li Zhuofang

(Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.

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City: Hong Kong

Postal Code:

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2.2. Manufacturer Information

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City: Hong Kong

Postal Code: /

Country: China

Telephone: 0086-755-36611722

Fax: 0086-755-36612000-81722





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

3.1. About EUT

Description GSM/UMTS/LTE mobile phone

Model Name T773O

FCC ID 2ACCJN045

Frequency Band ISM 2400MHz~2483.5MHz Type of Modulation GFSK/π/4 DQPSK/8DPSK

Number of Channels 79

Power Supply 3.85V DC by Battery

Antenna gain -2.1dBi

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT14a	015888000200502	03	v3.0.9D1Y	2020-11-24
UT25a	015888000200510	03	v3.0.9D1Y	2020-11-24

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description		
AE1	battery	/	Inbuilt
AE2	battery	/	Inbuilt
AE3	Travel charger	/	/
AE4	Travel charger	/	/
AE5	Travel charger	/	/
AE6	Travel charger	/	/
AE7	USB Cable	/	/
AE8	USB Cable	/	/
AE1			
Model		TLp048A1	
Manufact	urer	BYD	
Capacitar	nce	4360mAh	
Nominal v	voltage	3.85V	
AE2			
Model		TLp048A7	
Manufacturer		VEKEN	
Capacitance		4360mAh	
Nominal voltage		3.85V	





AE3

Model QC13US
Manufacturer BYD
Length of cable /

AE4

Model QC13US Manufacturer PUAN

Length of cable

AE5

Model UC13US Manufacturer PUAN

Length of cable /

AE6

Model UC13US Manufacturer Chen Yang

Length of cable /

AE7

Model CDA0000128C1

Manufacturer Juwei
Length of cable /

AE8

Model CDA0000128C2 Manufacturer shenghua

Length of cable /

3.4. Normal Accessory setting

Fully charged battery should be used during the test.

3.5. General Description

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

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





4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

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

Reference	Title	Version
	FCC CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	
FCC Part15	15.209 Radiated emission limits, general requirements;	2018
	15.247 Operation within the bands 902–928MHz,	
	2400–2483.5 MHz, and 5725–5850 MHz.	
ANSI C63.10	American National Standard of Procedures for	luna 2012
ANSI C03.10	Compliance Testing of Unlicensed Wireless Devices	June,2013





5. Test Results

5.1. 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 CTTL

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Peak Output Power	15.247 (b)(1)	Р
Frequency Band Edges- Conducted	15.247 (d)	Р
Frequency Band Edges- Radiated	15.247, 15.205, 15.209	Р
Transmitter Spurious Emission - Conducted	15.247 (d)	Р
Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	Р
Time of Occupancy (Dwell Time)	15.247 (a) (1)(iii)	Р
20dB Bandwidth	15.247 (a)(1)	NA
Carrier Frequency Separation	15.247 (a)(1)	Р
Number of hopping channels	15.247 (a)(b)(iii)	Р
AC Powerline Conducted Emission	15.107, 15.207	Р

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

The measurement is made according to ANSI C63.10.

5.2. Statements

CTTL has evaluated the test cases requested by the applicant /manufacturer as listed in section 5.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2





6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibratio n Period	Calibration Due date
1	Vector Signal Analyzer	FSQ26	100024	Rohde & Schwarz	1 year	2021-03-26
2	Bluetooth Tester	CBT	100315	Rohde & Schwarz	1 year	2021-12-16
3	LISN	ENV216	101200	Rohde & Schwarz	1 year	2021-05-19
4	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2021-02-26
5	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100235	Rohde & Schwarz	1 year	2021-03-03
2	BiLog Antenna	VULB9163	1223	Schwarzbeck	1 year	2021-03-18
3	Dual-Ridge Waveguide Horn Antenna	3115	6914	ETS-Lindgren	1 year	2021-01-14
4	Bluetooth Tester(note1)	СВТ	101042	Rohde & Schwarz	1 year	2021-01-01

Note1: the equipment was in Calibration Due date when used.





7. Measurement Uncertainty

7.1. Peak Output Power - Conducted

Measurement Uncertainty:

7.2. Frequency Band Edges - Conducted

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.3. Frequency Band Edges - Radiated

Measurement Uncertainty:

Measurement Uncertainty (k=2)	5.44dB
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7.4. Transmitter Spurious Emission - Conducted

Measurement Uncertainty:

Frequency Range	Uncertainty (k=2)
30 MHz ~ 8 GHz	1.22dB
8 GHz ~ 12.75 GHz	1.51dB
12.7GHz ~ 26 GHz	1.51dB

7.5. Transmitter Spurious Emission - Radiated

Measurement Uncertainty:

Frequency Range	Uncertainty(dBm) (k=2)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	5.16
1GHz ≤ f ≤18GHz	5.44
18GHz ≤ f ≤40GHz	5.28

7.6. Time of Occupancy (Dwell Time)

Measurement Uncertainty:

Measurement Uncertainty (k=2) 0.88ms





7.7. 20dB Bandwidth

Measurement Uncertainty:

Measurement Uncertainty (k=2)	61.936Hz
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7.8. Carrier Frequency Separation

Measurement Uncertainty:

Measurement Uncertainty (k=2)	61.936Hz
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7.9. AC Powerline Conducted Emission

Measurement Uncertainty:

Measurement Uncertainty (k=2)	3.08dB
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ANNEX A: EUT parameters

Disclaimer: The antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.





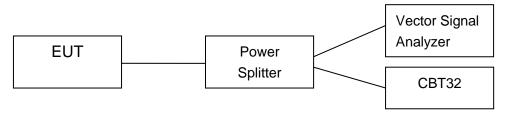
ANNEX B: Detailed Test Results

B.1. Measurement Method

B.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

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



B.1.2. Radiated Emission Measurements

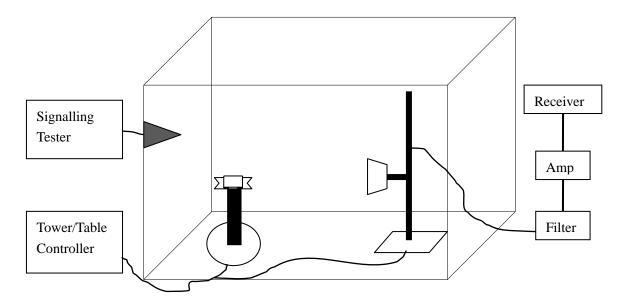
The measurement is made according to ANSI C63.10

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

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

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

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







B.2. Peak Output Power

B.2.1. Peak Output Power - Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.5

a) Use the following spectrum analyzer settings:

Span: 6MHzRBW: 3MHzVBW: 3MHz

Sweep time: 2.5msDetector function: peak

• Trace: max hold

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power.

Measurement Limit:

Standard	Limits		
FCC Part 15.247 (b)(1)	Bandwidth≤1MHz	30dBm (1W)	
	Bandwidth>1MHz	21dBm (125mW)	

Measurement Results:

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	12.33	11.63	11.65	Р

For π/4 DQPSK

Channel	Ch 0	Ch 39	Ch 78	Conclusion
	2402 MHz	2441 MHz	2480 MHz	
Peak Conducted	11.41	10.59	10.86	D
Output Power (dBm)	11.41	10.59	10.00	F

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	11.65	10.85	11.01	Р

Conclusion: PASS





B.2.2. E.I.R.P.

The radiated E.I.R.P. is listed below:

Antenna gain = -2.1dBi

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
E.I.R.P (dBm)	10.23	9.53	9.55	Р

Forπ/4 DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
E.I.R.P (dBm)	9.31	8.49	8.76	Р

For 8DPSK

Channel	Ch 0	Ch 39	Ch 78	Conclusion
	2402 MHz	2441 MHz	2480 MHz	Conclusion
E.I.R.P (dBm)	9.55	8.75	8.91	Р

Note: E.I.R.P. are calculated with the antenna gain.

Conclusion: PASS





B.3. Frequency Band Edges – Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.6

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).

- Span: 10 MHz

Resolution Bandwidth: 100 kHzVideo Bandwidth: 300 kHz

Sweep Time:AutoDetector: PeakTrace: max hold

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.

Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not an absolute field strength measurement; it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.

Measurement Limit:

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

Measurement Result:

For GFSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.1	-54.55	Р
	Hopping ON	Fig.2	-65.93	Р
78	Hopping OFF	Fig.3	-67.00	Р
	Hopping ON	Fig.4	-69.53	Р

For $\pi/4$ DQPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.5	-56.42	Р
0	Hopping ON	Fig.6	-63.40	Р
78	Hopping OFF	Fig.7	-65.97	Р
70	Hopping ON	Fig.8	-65.92	Р

For 8DPSK

Channel	Hopping	Band Edge Power (dBc)		Conclusion
0	Hopping OFF	Fig.9	-56.95	Р
U	Hopping ON	Fig.10	-64.53	Р





70	Hopping OFF	Fig.11	-65.84	Р
70	Hopping ON	Fig.12	-67.52	Р

Conclusion: PASS
Test graphs as below

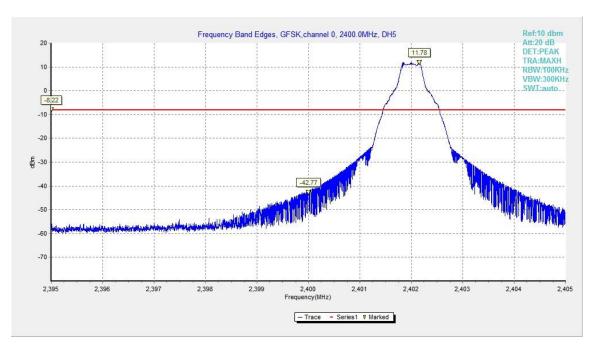


Fig.1. Frequency Band Edges: GFSK, Channel 0, Hopping Off

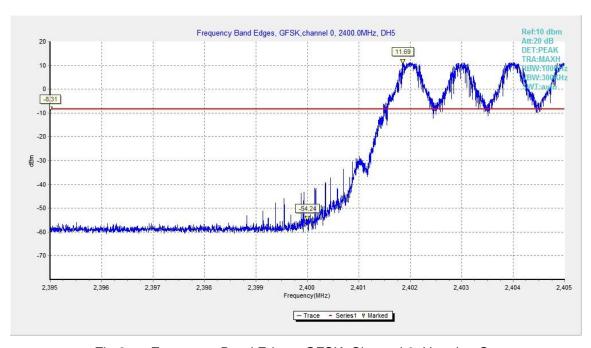


Fig.2. Frequency Band Edges: GFSK, Channel 0, Hopping On





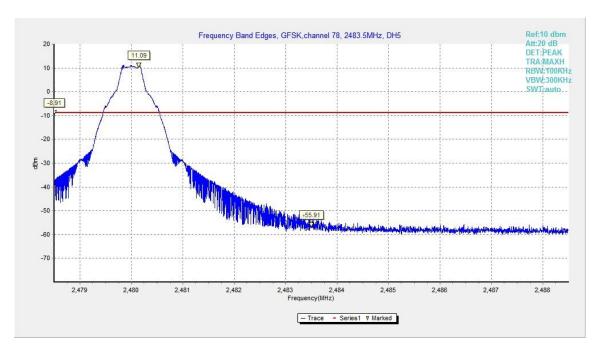


Fig.3. Frequency Band Edges: GFSK, Channel 78, Hopping Off

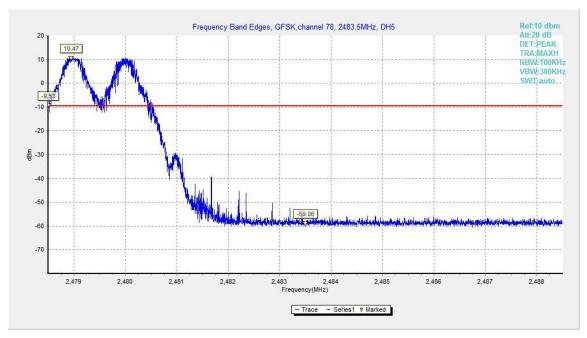


Fig.4. Frequency Band Edges: GFSK, Channel 78, Hopping On





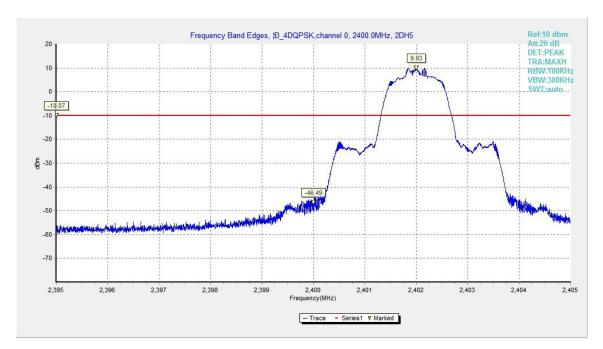


Fig.5. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping Off

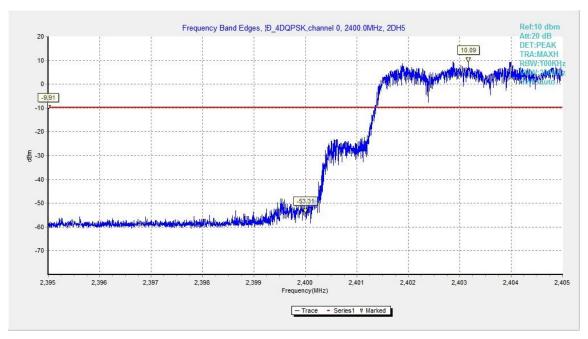


Fig.6. Frequency Band Edges: π/4 DQPSK, Channel 0, Hopping On





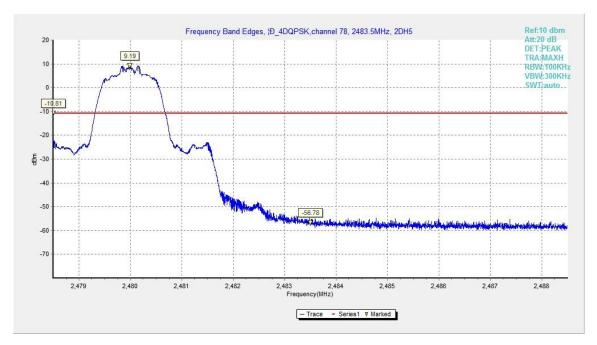


Fig.7. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping Off

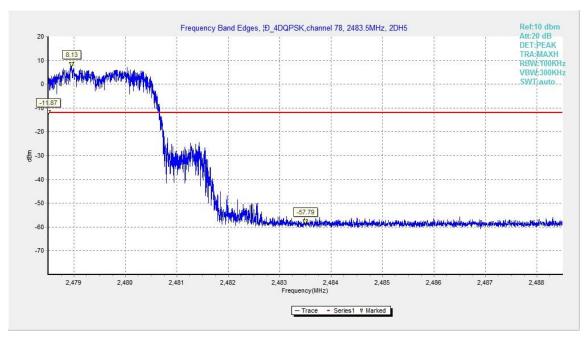


Fig.8. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping On





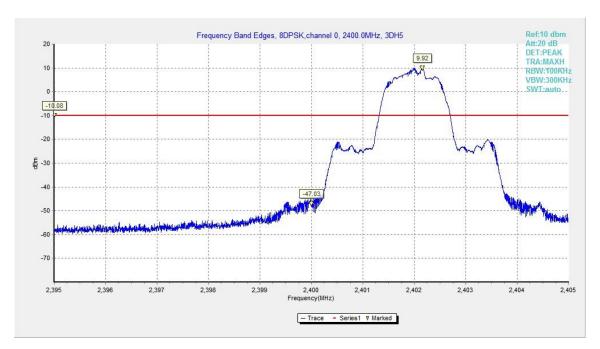


Fig.9. Frequency Band Edges: 8DPSK, Channel 0, Hopping Off

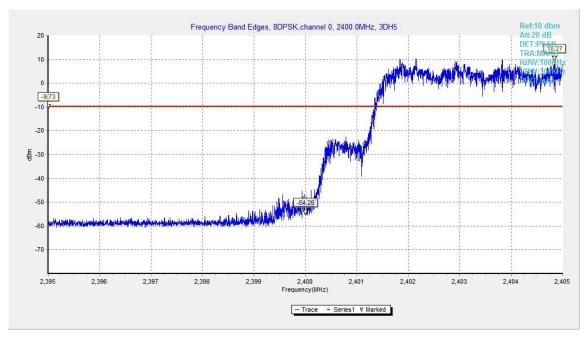


Fig.10. Frequency Band Edges: 8DPSK, Channel 0, Hopping On





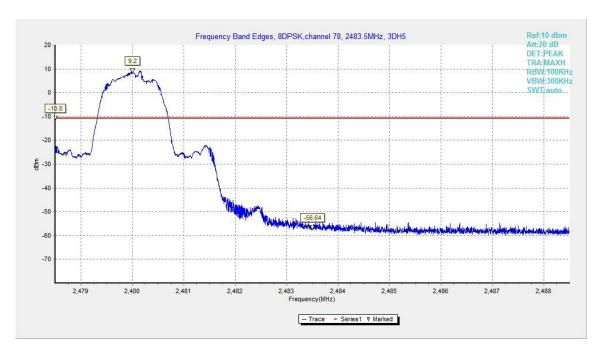


Fig.11. Frequency Band Edges: 8DPSK, Channel 78, Hopping Off

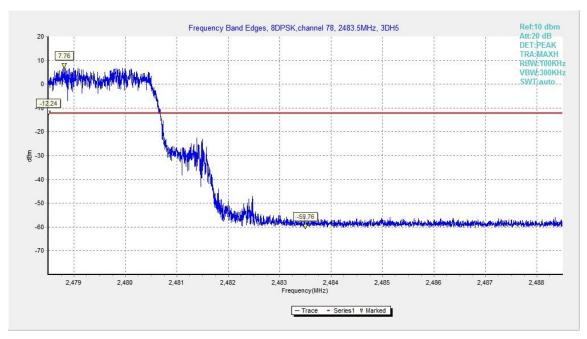


Fig.12. Frequency Band Edges: 8DPSK, Channel 78, Hopping On





B.4. Frequency Band Edges – Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 &6.5 & 6.6 Measurement Limit:

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

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 (MHz)	Field strength(µV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

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

Set up:

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m and the table height shall be 1.5 m.

The EUT and transmitting antenna shall be centered on the turntable.

Test Condition

The EUT shall be tested 1 near top, 1 near middle, and 1 near bottom. Set the unlicensed wireless device to operate in continuous transmit mode. For unlicensed wireless devices unable to be configured for 100% duty cycle even in test mode, configure the system for the maximum duty cycle supported.

When required for unlicensed wireless devices, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Exploratory radiated emissions measurements

Exploratory radiated measurements shall be performed at the measurement distance or at a closer distance than that specified for compliance to determine the emission characteristics of the EUT and, if applicable, the EUT configuration that produces the maximum level of emissions. The frequencies of maximum emission may be determined by manually positioning the antenna close ©Copyright. All rights reserved by CTTL.

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to the EUT, and then moving the antenna over all sides of the EUT while observing a spectral display. It is advantageous to have prior knowledge of the frequencies of emissions, although this may be determined from such a near-field scan. The near-field scan shall only be used to determine the frequency but not the amplitude of the emissions. Where exploratory measurements are not adequate to determine the worst-case operating modes and are used only to identify the frequencies of the highest emissions, additional preliminary tests can be required. For emissions from the EUT, the maximum level shall be determined by rotating the EUT and its antenna through 0° to 360°. For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored. Broadband antennas and a spectrum analyzer or a radio-noise meter with a panoramic display are often useful in this type of test. If either antenna height or EUT azimuth are not fully measured during exploratory testing, then complete testing can be required at the OATS or semi-anechoic chamber when the final full spectrum testing is performed.

Final radiated emissions measurements

The final measurements are using the orientation and equipment arrangement of the EUT based on the measurement results found during the preliminary (exploratory) measurements, the EUT arrangement, appropriate modulation, and modes of operation that produce the emissions that have the highest amplitude relative to the limit shall be selected for the final measurement. For emissions from the EUT, the maximum level shall be determined by rotating the EUT and its antenna through 0° to 360°. Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. For each mode of operation required to be tested, the frequency spectrum (based on findings from exploratory measurements) shall be monitored. For each mode selected, record the frequency and amplitude of the highest fundamental emission (if applicable), as well as the frequency and amplitude of the six highest spurious emissions relative to the limit. Emissions more than 20 dB below the limit do not need to be reported. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The receiver references:

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





EUT ID: UT14a

Measurement Results:

Mode	Channel	Frequency Range	Test Results	Conclusion
CESK	0	2.38GHz ~2.45GHz	Fig.13	Р
GFSK	78	2.45GHz ~2.5GHz	Fig.14	Р

Mode	Channel	Frequency Range	Test Results	Conclusion
π/4 DQPSK	0	2.38GHz ~2.43GHz	Fig.15	Р
II/4 DQPSK	78	2.45GHz ~2.5GHz	Fig.16	Р

Mode	Channel	Frequency Range	Test Results	Conclusion
8DPSK	0	2.38GHz ~2.45GHz	Fig.17	Р
	78	2.45GHz ~2.5GHz	Fig.18	Р

Conclusion: PASS
Test graphs as below

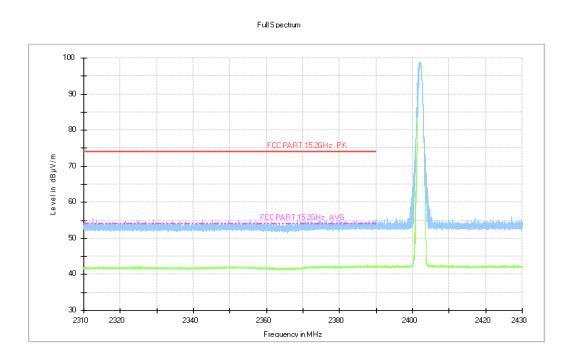


Fig.13. Frequency Band Edges: GFSK, Channel 0, Hopping Off, 2.38 GHz – 2.45GHz





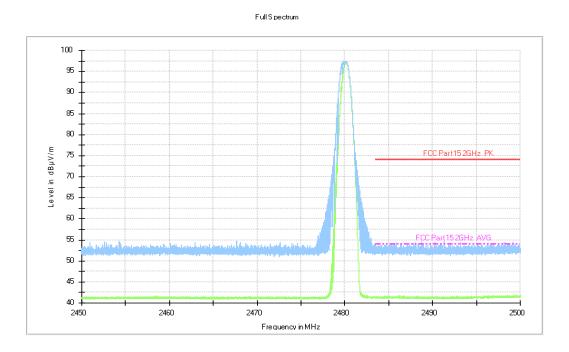


Fig.14. Frequency Band Edges: GFSK, Channel 78, Hopping Off, ch11, 2.45 GHz - 2.50GHz

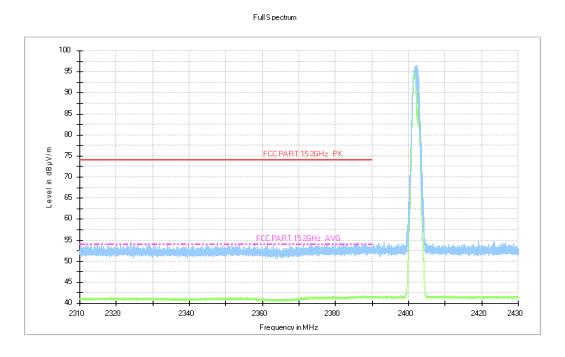


Fig.15. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping Off, 2.38 GHz - 2.45GHz





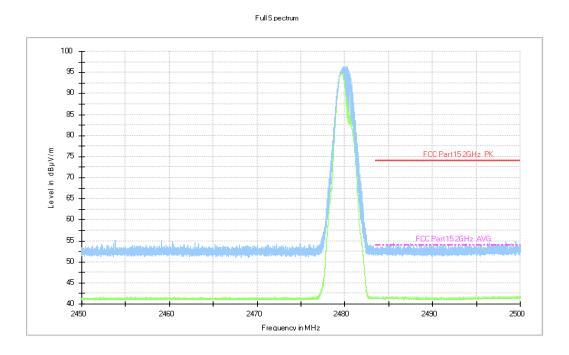


Fig.16. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping Off, 2.38 GHz - 2.45GHz

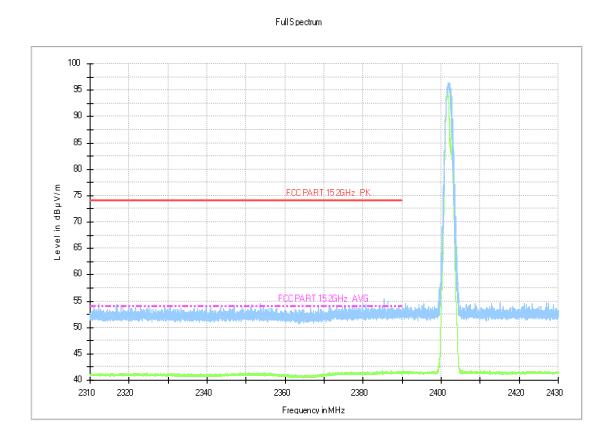


Fig.17. Frequency Band Edges: 8DPSK, Channel 0, 2.38 GHz - 2.45GHz





FullSpectrum

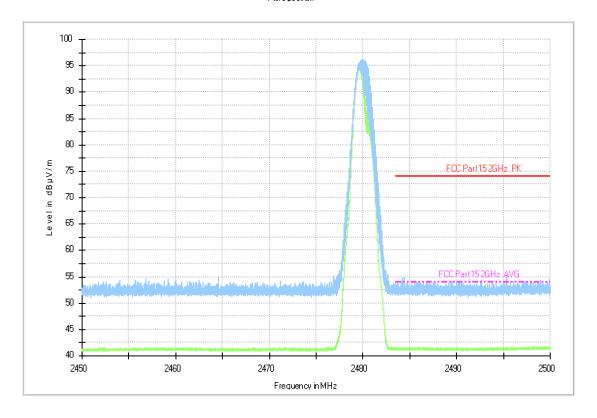


Fig.18. Frequency Band Edges: 8DPSK, Channel 78, 2.38 GHz - 2.45GHz





B.5. Transmitter Spurious Emission - Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.8

Measurement Procedure - Reference Level

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW = 300 kHz.
- 3. Set the span to 5-30 % greater than the EBW.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW. Next, determine the power in 100 kHz band segments outside of the authorized frequency band using the following measurement:

Measurement Procedure - Unwanted Emissions

- 1. Set RBW = 100 kHz.
- 2. Set VBW = 300 kHz.
- 3. Set span to encompass the spectrum to be examined.
- 4. Detector = peak.
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.
- 7. Allow the trace to stabilize (this may take some time, depending on the extent of the span).

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified above.

Measurement Limit:

Standard	Limit	
CCC 47 CCD Doct 15 247 (d)	20dB below peak output power in 100 kHz	
FCC 47 CFR Part 15.247 (d)	bandwidth	

Measurement Results:

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0	Center Frequency	Fig.19	Р





2402 MHz	30 MHz ~ 1 GHz	Fig.20	Р
	1 GHz ~ 3 GHz	Fig.21	Р
	3 GHz ~ 10 GHz	Fig.22	Р
	10 GHz ~ 26 GHz	Fig.23	Р
	Center Frequency	Fig.24	Р
Oh 20	30 MHz ~ 1 GHz	Fig.25	Р
Ch 39 2441 MHz	1 GHz ~ 3 GHz	Fig.26	Р
	3 GHz ~ 10 GHz	Fig.27	Р
	10 GHz ~ 26 GHz	Fig.28	Р
Ch 78 2480 MHz	Center Frequency	Fig.29	Р
	30 MHz ~ 1 GHz	Fig.30	Р
	1 GHz ~ 3 GHz	Fig.31	Р
	3 GHz ~ 10 GHz	Fig.32	Р
	10 GHz ~ 26 GHz	Fig.33	Р

For π/4 DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.34	Р
	30 MHz ~ 1 GHz	Fig.35	Р
	1 GHz ~ 3 GHz	Fig.36	Р
2.022	3 GHz ~ 10 GHz	Fig.37	Р
	10 GHz ~ 26 GHz	Fig.38	Р
	Center Frequency	Fig.39	Р
Oh 20	30 MHz ~ 1 GHz	Fig.40	Р
Ch 39 2441 MHz	1 GHz ~ 3 GHz	Fig.41	Р
	3 GHz ~ 10 GHz	Fig.42	Р
	10 GHz ~ 26 GHz	Fig.43	Р
Ch 78 2480 MHz	Center Frequency	Fig.44	Р
	30 MHz ~ 1 GHz	Fig.45	Р
	1 GHz ~ 3 GHz	Fig.46	Р
	3 GHz ~ 10 GHz	Fig.47	Р
	10 GHz ~ 26 GHz	Fig.48	Р

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	Center Frequency	Fig.49	Р
	30 MHz ~ 1 GHz	Fig.50	Р
	1 GHz ~ 3 GHz	Fig.51	Р
	3 GHz ~ 10 GHz	Fig.52	Р
	10 GHz ~ 26 GHz	Fig.53	Р





Ch 39 2441 MHz	Center Frequency	Fig.54	Р
	30 MHz ~ 1 GHz	Fig.55	Р
	1 GHz ~ 3 GHz	Fig.56	Р
	3 GHz ~ 10 GHz	Fig.57	Р
	10 GHz ~ 26 GHz	Fig.58	Р
Ch 78 2480 MHz	Center Frequency	Fig.59	Р
	30 MHz ~ 1 GHz	Fig.60	Р
	1 GHz ~ 3 GHz	Fig.61	Р
	3 GHz ~ 10 GHz	Fig.62	Р
	10 GHz ~ 26 GHz	Fig.63	Р

Conclusion: PASS
Test graphs as below

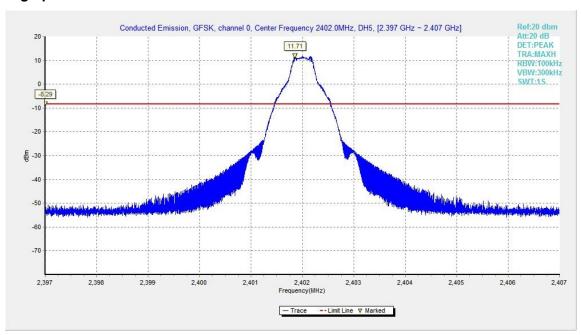


Fig.19. Conducted spurious emission: GFSK, Channel 0,2402MHz





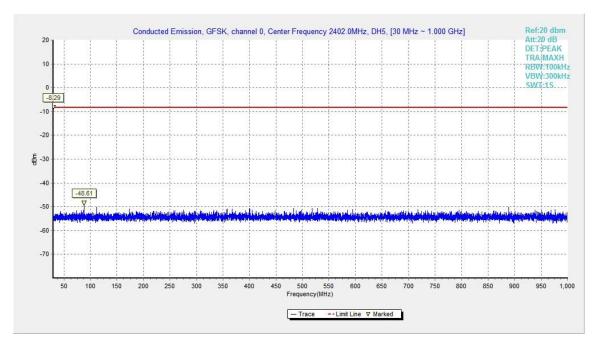


Fig.20. Conducted spurious emission: GFSK, Channel 0, 30MHz - 1GHz

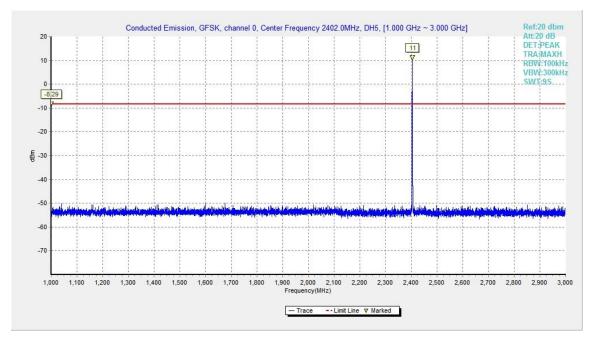


Fig.21. Conducted spurious emission: GFSK, Channel 0, 1GHz - 3GHz





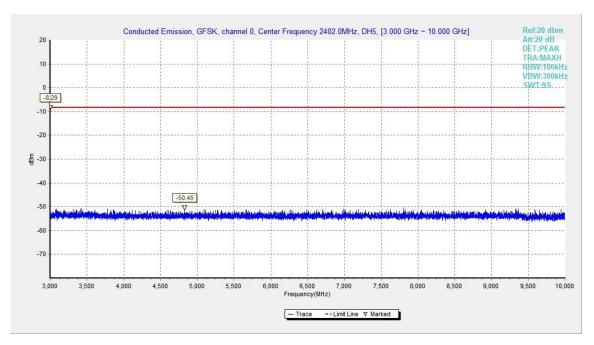


Fig.22. Conducted spurious emission: GFSK, Channel 0, 3GHz - 10GHz

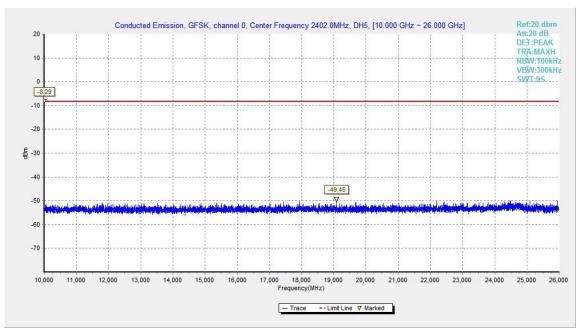


Fig.23. Conducted spurious emission: GFSK, Channel 0,10GHz - 26GHz





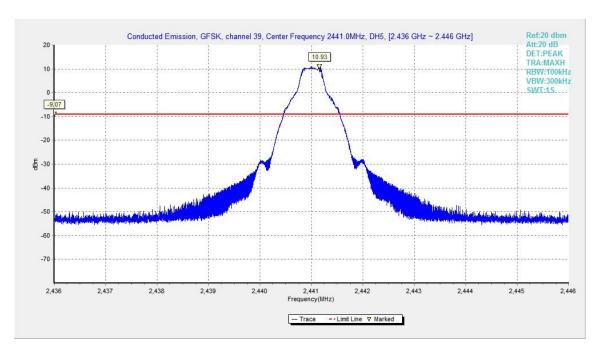


Fig.24. Conducted spurious emission: GFSK, Channel 39, 2441MHz

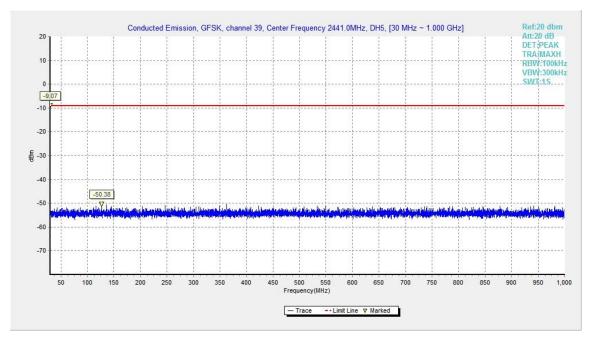


Fig.25. Conducted spurious emission: GFSK, Channel 39, 30MHz - 1GHz





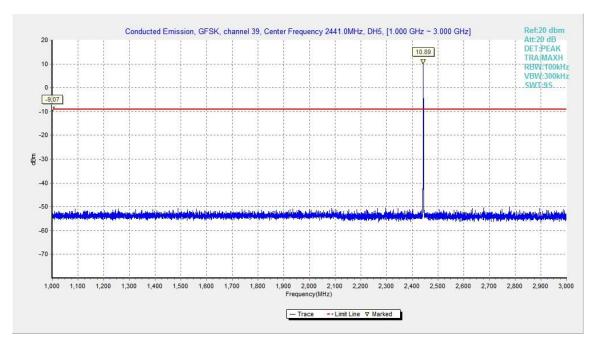


Fig.26. Conducted spurious emission: GFSK, Channel 39, 1GHz – 3GHz

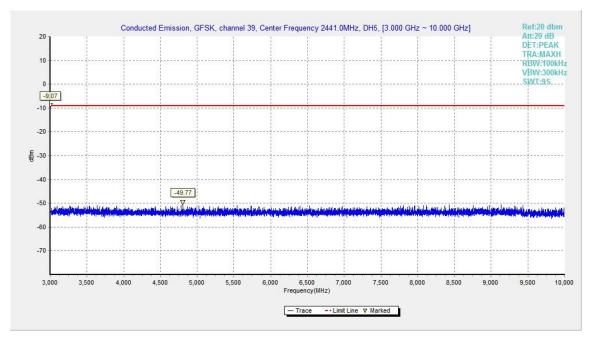


Fig.27. Conducted spurious emission: GFSK, Channel 39, 3GHz - 10GHz





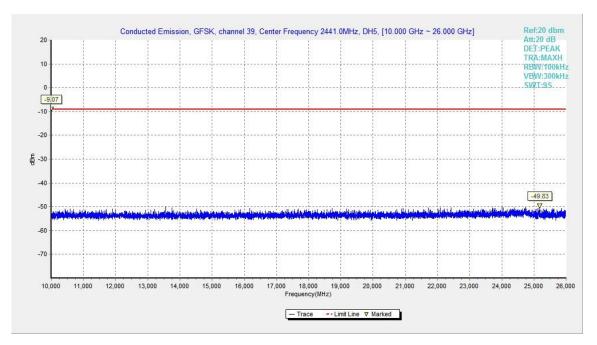


Fig.28. Conducted spurious emission: GFSK, Channel 39, 10GHz – 26GHz

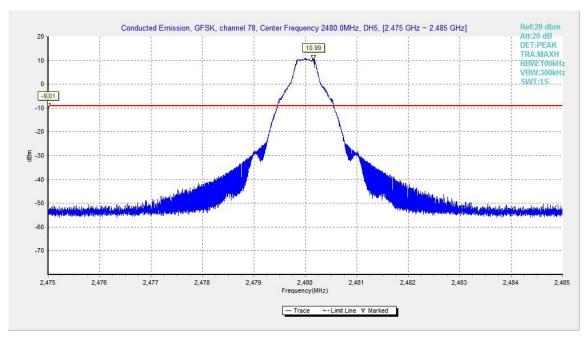


Fig.29. Conducted spurious emission: GFSK, Channel 78, 2480MHz





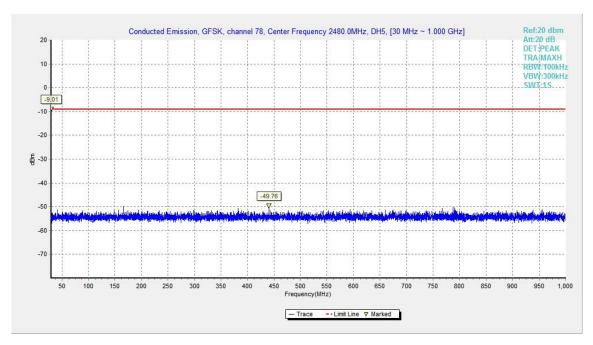


Fig.30. Conducted spurious emission: GFSK, Channel 78, 30MHz - 1GHz

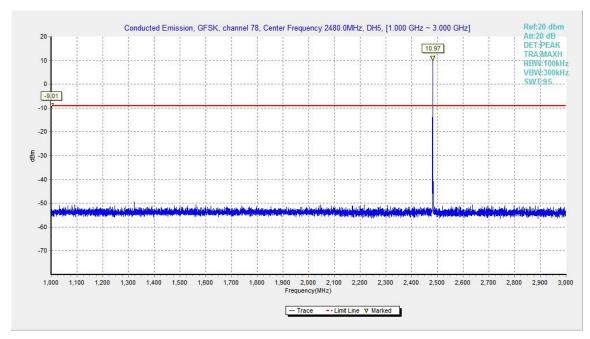


Fig.31. Conducted spurious emission: GFSK, Channel 78, 1GHz - 3GHz





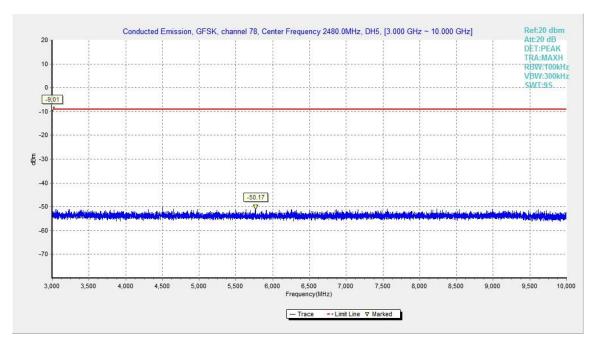


Fig.32. Conducted spurious emission: GFSK, Channel 78, 3GHz - 10GHz

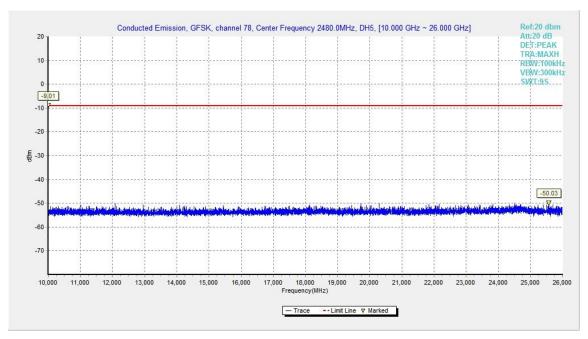


Fig.33. Conducted spurious emission: GFSK, Channel 78, 10GHz - 26GHz





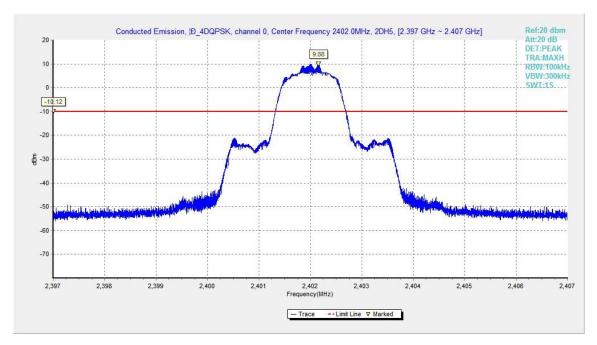


Fig.34. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0,2402MHz

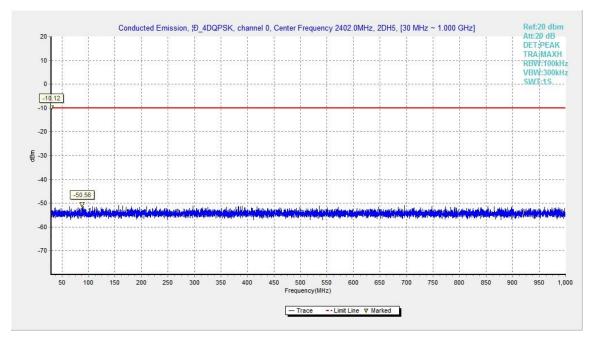


Fig.35. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 30MHz - 1GHz





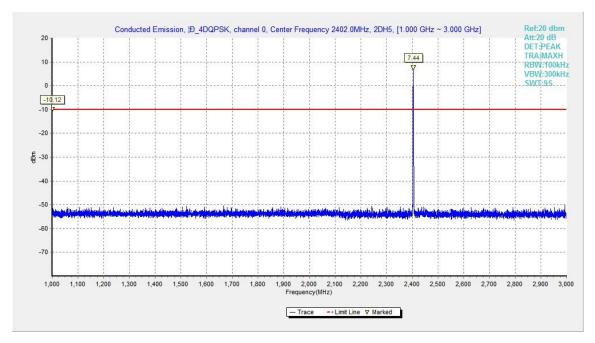


Fig.36. Conducted spurious emission: π/4 DQPSK, Channel 0, 1GHz - 3GHz

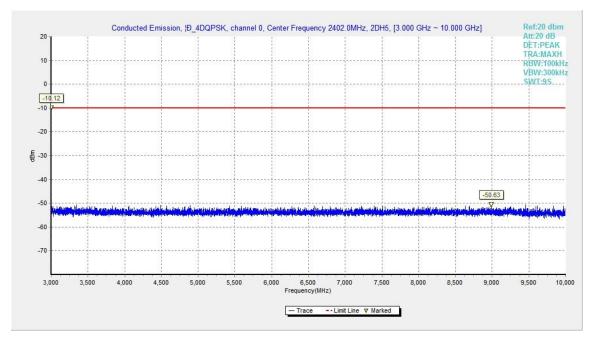


Fig.37. Conducted spurious emission: $\pi/4$ DQPSK, Channel 0, 3GHz - 10GHz





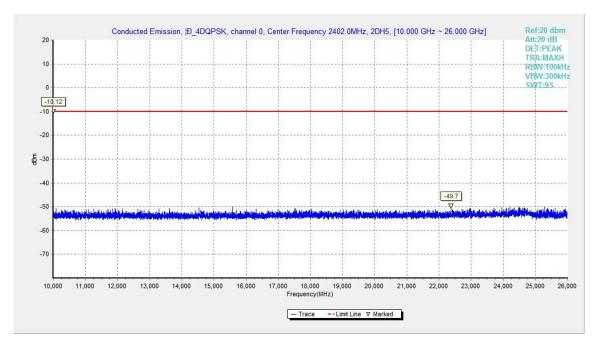


Fig.38. Conducted spurious emission: π/4 DQPSK, Channel 0,10GHz - 26GHz

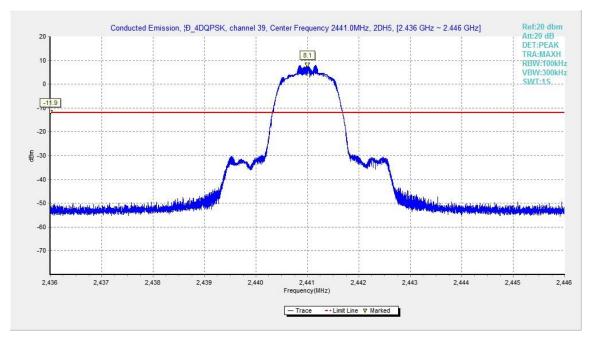


Fig.39. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 2441MHz





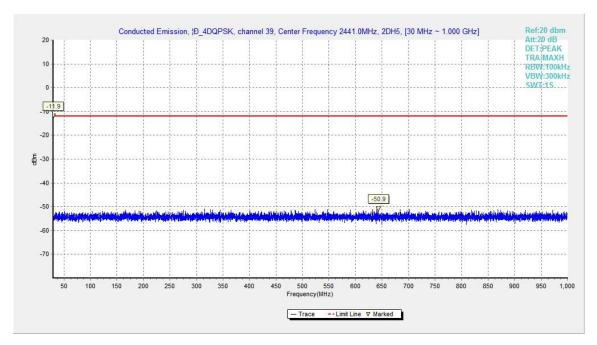


Fig.40. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 30MHz - 1GHz

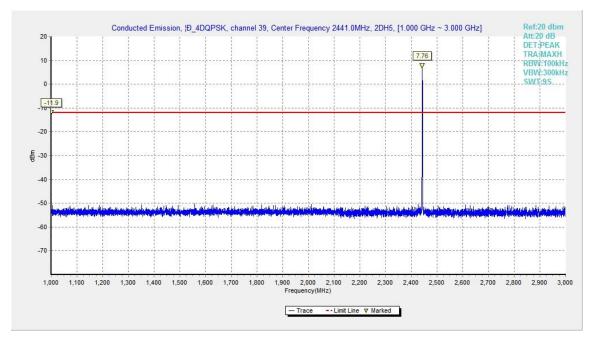


Fig.41. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 1GHz - 3GHz





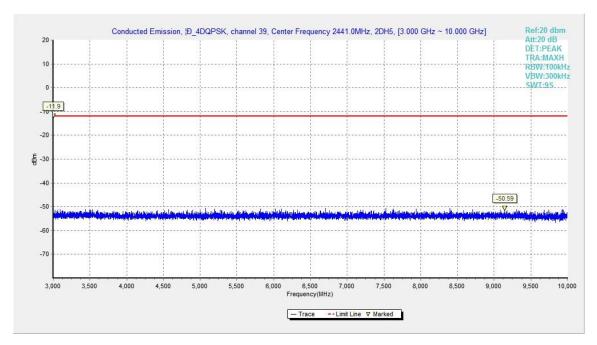


Fig.42. Conducted spurious emission: π/4 DQPSK, Channel 39, 3GHz - 10GHz

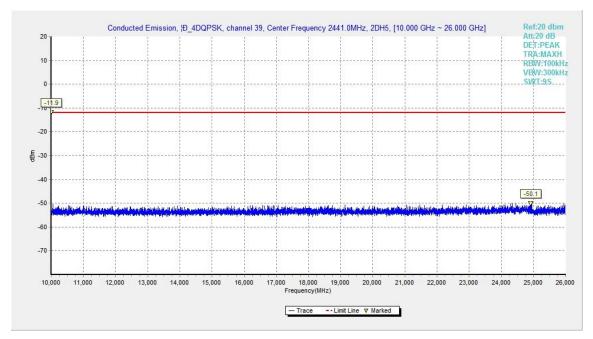


Fig.43. Conducted spurious emission: π/4 DQPSK, Channel 39, 10GHz – 26GHz





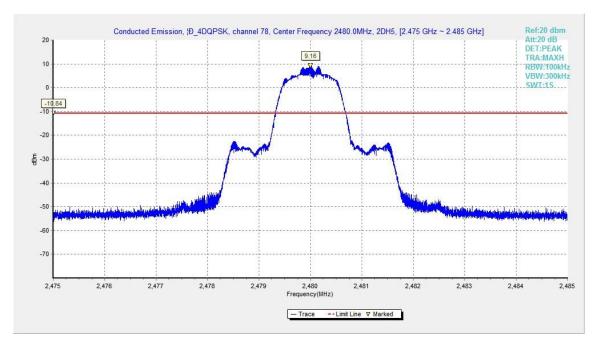


Fig.44. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 2480MHz

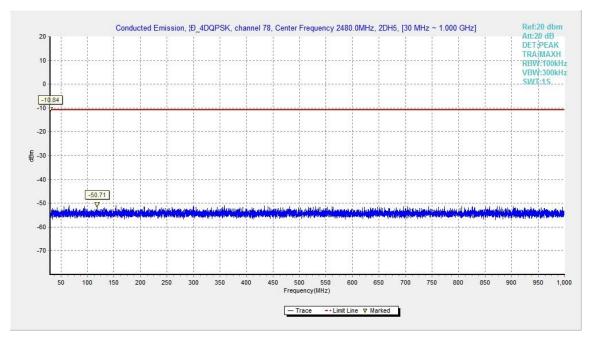


Fig.45. Conducted spurious emission: π/4 DQPSK, Channel 78, 30MHz - 1GHz





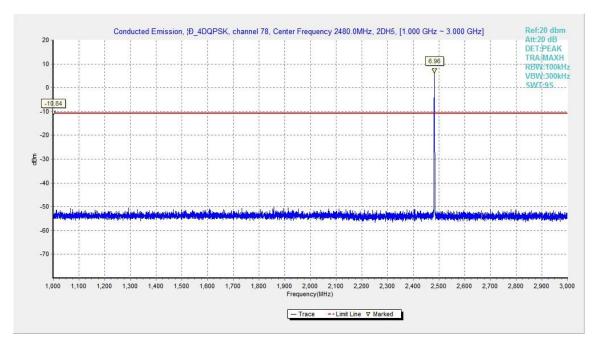


Fig.46. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 1GHz - 3GHz

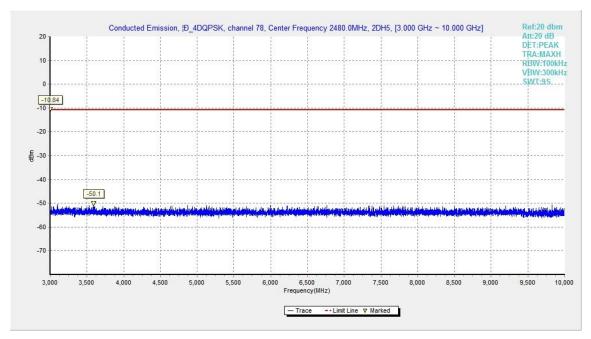


Fig.47. Conducted spurious emission: π/4 DQPSK, Channel 78, 3GHz - 10GHz





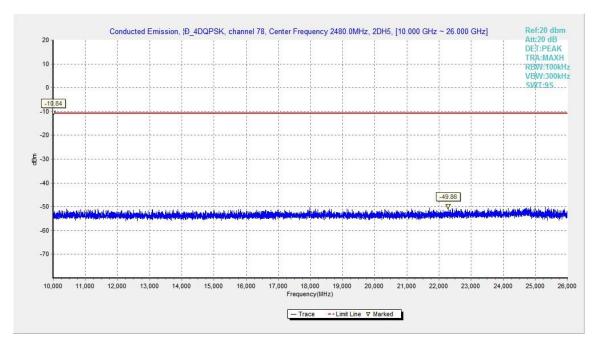


Fig.48. Conducted spurious emission: π/4 DQPSK, Channel 78, 10GHz - 26GHz

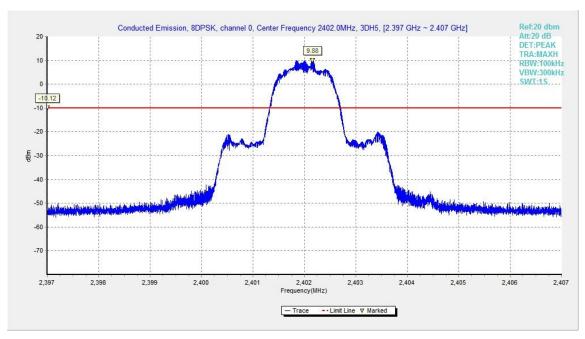


Fig.49. Conducted spurious emission: 8DPSK, Channel 0,2402MHz





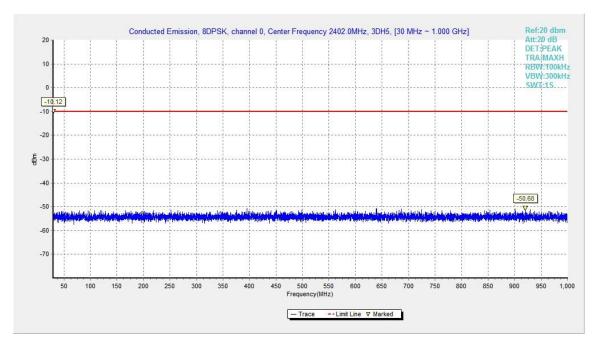


Fig.50. Conducted spurious emission: 8DPSK, Channel 0, 30MHz - 1GHz

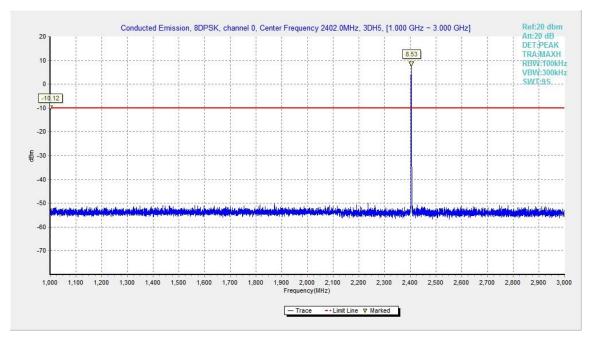


Fig.51. Conducted spurious emission: 8DPSK, Channel 0, 1GHz - 3GHz





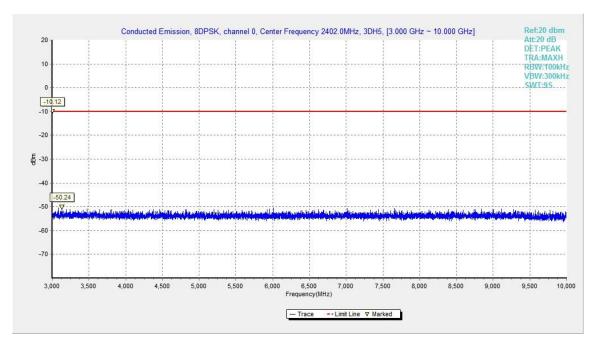


Fig.52. Conducted spurious emission: 8DPSK, Channel 0, 3GHz - 10GHz

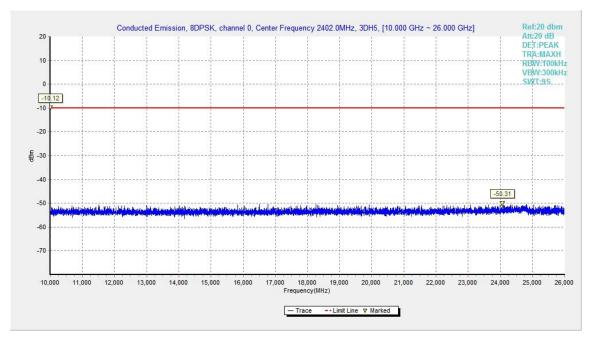


Fig.53. Conducted spurious emission: 8DPSK, Channel 0,10GHz - 26GHz





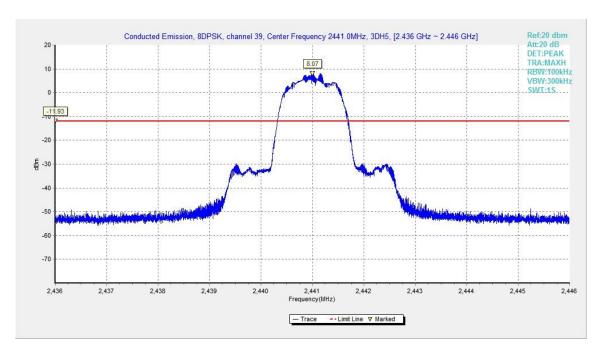


Fig.54. Conducted spurious emission: 8DPSK, Channel 39, 2441MHz

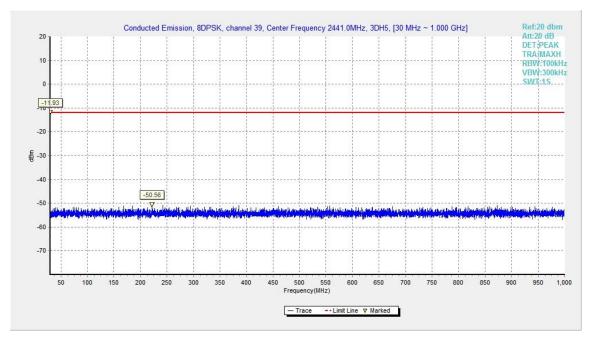


Fig.55. Conducted spurious emission: 8DPSK, Channel 39, 30MHz - 1GHz