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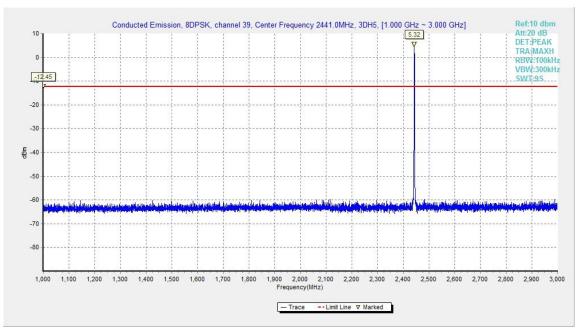


Fig.50. Conducted spurious emission: 8DPSK, Channel 39, 1GHz - 3GHz

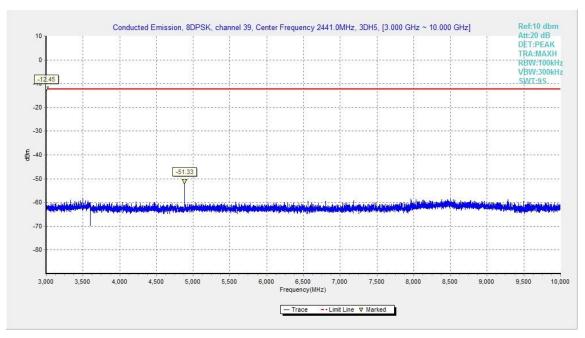


Fig.51. Conducted spurious emission: 8DPSK, Channel 39, 3GHz - 10GHz

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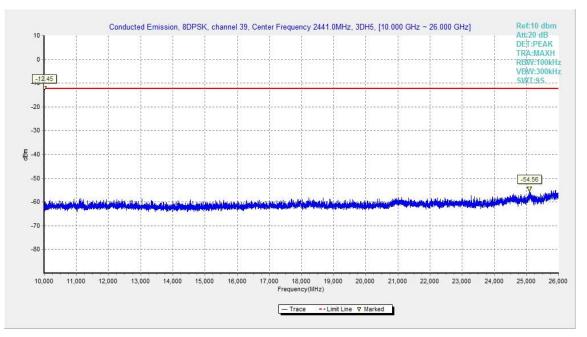


Fig.52. Conducted spurious emission: 8DPSK, Channel 39, 10GHz - 26GHz

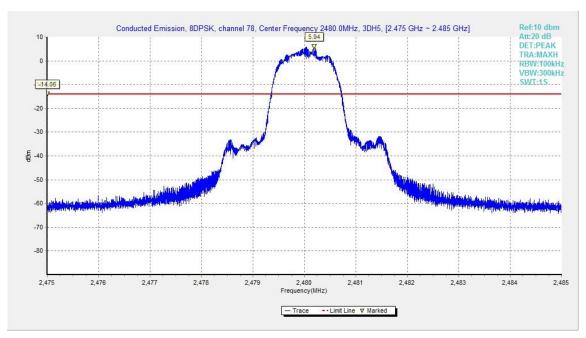


Fig.53. Conducted spurious emission: 8DPSK, Channel 78, 2480MHz

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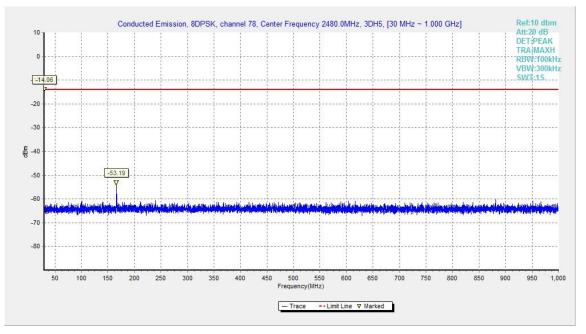


Fig.54. Conducted spurious emission: 8DPSK, Channel 78, 30MHz - 1GHz

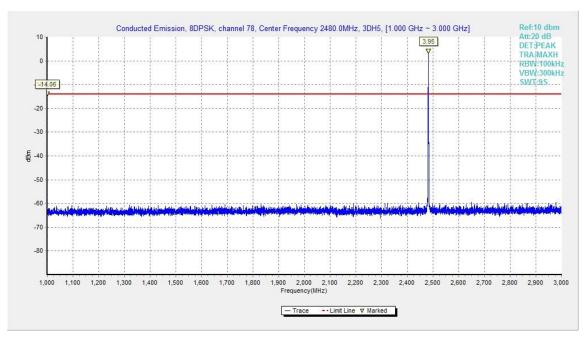


Fig.55. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 3GHz

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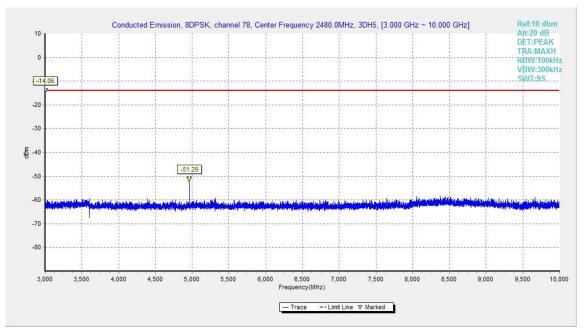


Fig.56. Conducted spurious emission: 8DPSK, Channel 78, 3GHz - 10GHz

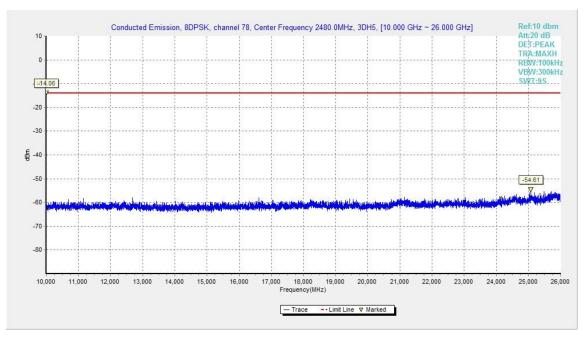


Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 10GHz - 26GHz



A.5. Transmitter Spurious Emission - Radiated

Measurement Limit:

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

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

The measurement is made according to ANSI C63.10

Limit in restricted band:

Frequency of emission	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

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

Measurement Results:

Result=P_{Mea}+ARPL

For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0	1 GHz ~ 3 GHz		Р
2402 MHz	3 GHz ~ 18 GHz		Р
	9 kHz ~ 30 MHz		Р
Ch 39	30 MHz ~ 1 GHz		Р
2441 MHz	1 GHz ~ 3 GHz		Р
	3 GHz ~ 18 GHz		Р
Ch 78	1 GHz ~ 3 GHz		Р
2480 MHz	3 GHz ~ 18 GHz		Р
Power	2.38GHz~2.4GHzL Fig.58		Р
Power	2.45GHz~2.5GHzH	Fig.59	Р



For all channels

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For all channels	18 GHz ~ 26 GHz		Р
Forπ/4 DQPSK			
Channel	Frequency Range	Test Results	Conclusion
Ch 0	1 GHz ~ 3 GHz		Р
2402 MHz	3 GHz ~ 18 GHz		Р
Ch 20	30 MHz ~ 1 GHz		Р
Ch 39 2441 MHz	1 GHz ~ 3 GHz		Р
	3 GHz ~ 18 GHz		Р
Ch 78	1 GHz ~ 3 GHz		Р
2480 MHz	3 GHz ~ 18 GHz		Р
Power	2.38GHz~2.4GHzL	Fig.60	Р
Power	2.45GHz~2.5GHzH	Fig.61	Р
For all channels	18 GHz ~ 26 GHz		Р
For 8DPSK			
Channel	Frequency Range	Test Results	Conclusion
Ch 0	1 GHz ~ 3 GHz		Р
2402 MHz	3 GHz ~ 18 GHz		Р
Ch 39	30 MHz ~ 1 GHz		Р
Cn 39 2441 MHz	1 GHz ~ 3 GHz		Р
3 GHz ~ 18 GHz			Р
Ch 78	1 GHz ~ 3 GHz		Р
2480 MHz	3 GHz ~ 18 GHz		Р
Power	2.38GHz~2.4GHzL	Fig.62	Р
Power	2.45GHz~2.5GHzH	Fig.63	Р

--

18 GHz ~ 26 GHz

Ρ



GFSK Ch 0 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2389.920	41.8	-38.8	27.7	52.900	Н
17839.000	39.8	-18.5	45.6	12.700	Н
17894.500	39.8	-18.5	45.6	12.700	V
17768.000	39.7	-18.5	45.6	12.600	Н
17838.000	39.7	-18.5	45.6	12.600	Н
17911.000	39.7	-18.5	45.6	12.600	Н

GFSK Ch 39 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
17864.000	40.0	-18.5	45.6	12.900	Н
17828.000	39.9	-18.5	45.6	12.800	Н
17856.500	39.7	-18.5	45.6	12.600	V
17895.000	39.7	-18.5	45.6	12.600	Н
17881.500	39.7	-18.5	45.6	12.600	Н
17859.500	39.7	-18.5	45.6	12.600	Н

GFSK Ch 78 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2483.660	41.1	-38.9	27.7	52.3	Н
17844.000	39.7	-18.5	45.6	12.6	Н
17761.000	39.7	-18.5	45.6	12.6	V
17874.500	39.6	-18.5	45.6	12.5	Н
17853.500	39.6	-18.5	45.6	12.5	Н
17901.500	39.6	-18.5	45.6	12.5	Н

$\pi/4$ DQPSK Ch 0 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2389.695	54.0	-38.8	27.7	65.1	Н
17870.500	40.0	-18.5	45.6	12.9	Н
17828.500	39.7	-18.5	45.6	12.6	V
17840.000	39.7	-18.5	45.6	12.6	Н
17755.500	39.7	-18.5	45.6	12.6	Н
17851.500	39.7	-18.5	45.6	12.6	Н



$\pi/4$ DQPSK Ch 39 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
17852.000	39.8	-18.5	45.6	12.7	Н
17765.500	39.7	-18.5	45.6	12.6	Н
17841.000	39.7	-18.5	45.6	12.6	V
17751.500	39.7	-18.5	45.6	12.6	Н
17830.500	39.7	-18.5	45.6	12.6	Н
17884.000	39.6	-18.5	45.6	12.5	Н

$\pi/4$ DQPSK Ch 78 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2483.550	41.0	-38.9	27.7	52.2	Н
17858.500	40.0	-18.5	45.6	12.9	Н
17759.000	39.9	-18.5	45.6	12.8	V
17855.500	39.9	-18.5	45.6	12.8	Н
17843.000	39.9	-18.5	45.6	12.8	Н
17878.500	39.9	-18.5	45.6	12.8	Н

8DPSK Ch 0 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2389.990	41.7	-38.8	27.7	52.8	Н
17730.000	52.0	-18.5	45.6	12.8	Н
17294.000	51.9	-18.5	45.6	12.7	V
17916.500	51.8	-18.5	45.6	12.7	Н
17864.000	51.7	-18.5	45.6	12.7	Н
17921.500	51.6	-18.5	45.6	12.7	Н

8DPSK Ch 39 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
17849.500	39.9	-18.5	45.6	12.8	Н
17730.000	52.0	-18.5	45.6	12.6	Н
17294.000	51.9	-18.5	45.6	12.6	V
17916.500	51.8	-18.5	45.6	12.6	Н
17864.000	51.7	-18.5	45.6	12.6	Н
17921.500	51.6	-18.5	45.6	12.6	Н



8DPSK Ch 78 - Average

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2483.620	41.3	-38.9	27.7	52.5	Н
17730.000	52.0	-18.5	45.6	13.0	Н
17294.000	51.9	-18.5	45.6	12.9	V
17916.500	51.8	-18.5	45.6	12.9	Н
17864.000	51.7	-18.5	45.6	12.8	Н
17921.500	51.6	-18.5	45.6	12.8	Н

GFSK Ch 0 – Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2389.920	53.6	-38.8	27.7	64.7	Н
17871.000	52.0	-18.5	45.6	24.9	Н
17911.000	51.8	-18.5	45.6	24.7	V
17928.500	51.7	-17.7	45.6	23.8	Н
17030.500	51.7	-19.9	41.5	30.1	Н
17419.500	51.6	-19.2	41.5	29.3	Н

GFSK Ch 39 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
17732.000	52.6	-18.9	45.6	25.9	Н
17740.000	52.0	-18.5	45.6	24.9	Н
17746.500	52.0	-18.5	45.6	24.9	V
17663.000	51.9	-18.9	45.6	25.2	Н
17840.000	51.8	-18.5	45.6	24.7	Н
17627.500	51.7	-18.9	45.6	25.0	Н

GFSK Ch 78 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2483.665	53.0	-38.9	27.7	64.2	Н
17483.500	52.2	-19.2	41.5	29.9	Н
17864.000	52.0	-18.5	45.6	24.9	V
17517.500	51.7	-19.2	45.6	25.3	Н
17750.500	51.5	-18.5	45.6	24.4	Н
17846.000	51.5	-18.5	45.6	24.4	Н



$\pi/4$ DQPSK Ch 0 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2389.640	41.7	-38.8	27.7	52.800	Н
17821.500	51.9	-18.5	45.6	24.800	Н
17939.500	51.9	-17.7	45.6	24.000	V
17892.500	51.8	-18.5	45.6	24.700	Н
17364.000	51.6	-19.5	41.5	29.600	Н
17880.000	51.5	-18.5	45.6	24.400	Н

π/4 DQPSK Ch 39 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
17440.500	52.3	-19.2	41.5	30.0	Н
17924.500	51.9	-17.7	45.6	24.0	Н
17848.500	51.9	-18.5	45.6	24.8	V
17849.500	51.8	-18.5	45.6	24.7	Н
17793.000	51.5	-18.5	45.6	24.4	Н
17778.500	51.3	-18.5	45.6	24.2	Н

$\pi/4$ DQPSK Ch 78 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2483.555	53.2	-38.9	27.7	64.4	Н
17557.000	52.3	-19.2	45.6	25.9	Н
17764.500	52.3	-18.5	45.6	25.2	V
17968.000	51.8	-17.7	45.6	23.9	Н
17835.500	51.6	-18.5	45.6	24.5	Н
17780.500	51.6	-18.5	45.6	24.5	Н

8DPSK Ch 0 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2389.950	53.6	-38.8	27.7	64.7	Н
17730.000	52.0	-18.9	45.6	25.3	Н
17294.000	51.9	-19.5	41.5	29.9	V
17916.500	51.8	-17.7	45.6	23.9	Н
17864.000	51.7	-18.5	45.6	24.6	Н
17921.500	51.6	-17.7	45.6	23.7	Н



8DPSK Ch 39 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
17848.000	52.2	-18.5	45.6	25.1	Н
17730.000	52.0	-18.5	45.6	25.1	Н
17294.000	51.9	-18.5	45.6	24.7	V
17916.500	51.8	-18.5	45.6	24.7	Н
17864.000	51.7	-18.5	45.6	24.6	Н
17921.500	51.6	-19.2	41.5	29.4	Н

8DPSK Ch 78 - Peak

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	Receiver Reading (dBµV)	Polarization
2483.610	53.1	-38.9	27.7	64.3	Н
17730.000	52.0	-19.5	41.5	30.2	Н
17294.000	51.9	-18.5	45.6	24.9	V
17916.500	51.8	-18.5	45.6	24.6	Н
17864.000	51.7	-18.5	45.6	24.4	Н
17921.500	51.6	-19.5	41.5	29.5	Н

Conclusion: PASS Test graphs as below for Set.2:



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Full Spectrum

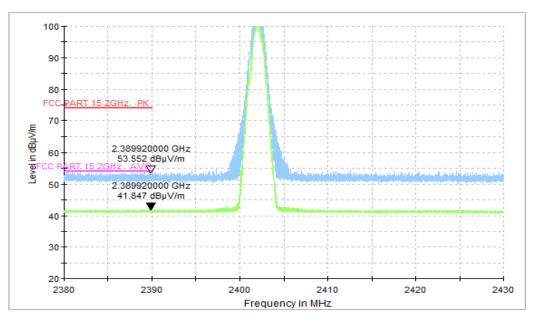


Fig.58. Radiated emission (Power): GFSK, low channel

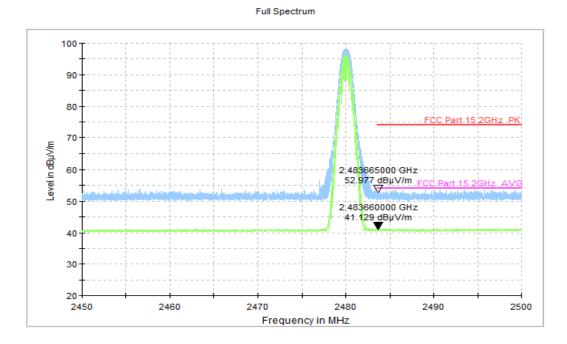


Fig.59. Radiated emission (Power) GFSK, high channel



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Full Spectrum

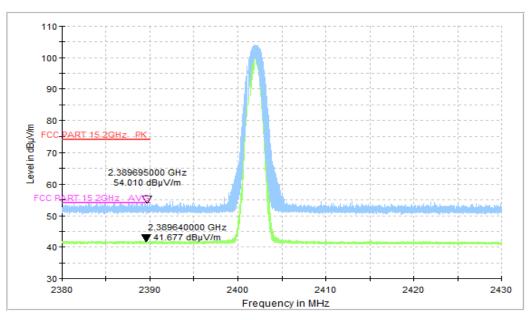


Fig.60. Radiated emission (Power): $\pi/4$ DQPSK, low channel

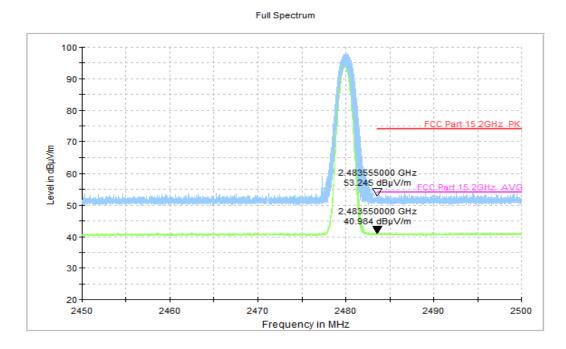


Fig.61. Radiated emission (Power): $\pi/4$ DQPSK, high channel



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Full Spectrum

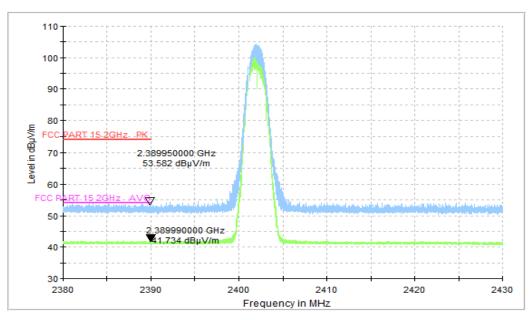


Fig.62. Radiated emission (Power): 8DPSK, low channel

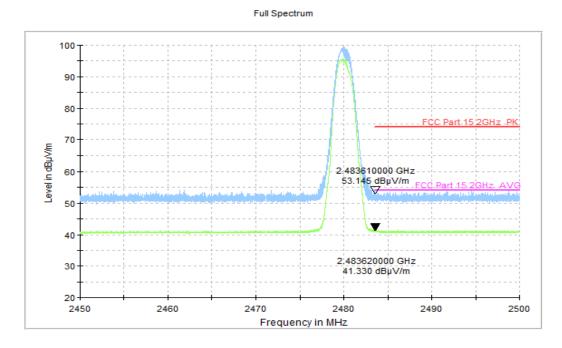


Fig.63. Radiated emission (Power): 8DPSK, high channel



A.6. Time of Occupancy (Dwell Time)

Method of Measurement: See ANSI C63.10-clause 7.8.4

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = zero span, centered on a hopping channel
- RBW = 1 MHz
- VBW ≥ RBW
- Sweep = as necessary to capture the entire dwell time per hopping channel
- Detector function = peak
- Trace = max hold

Measure a pulse time in time domain at middle frequency and then count the hopping number in 31.6s(which equals with 0.4 multiply 79) of middle frequency ,then multiply the pulse time and hopping number and record them.

Measurement Limit:

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

Measurement Result:

For GFSK

Channel	Packet	Dwell Tir	me (ms)	Conclusion
	DH1	Fig.64	404.45	D
		Fig.65	121.15	Р
20	39 DH3	Fig.66		Р
39		Fig.67	157.15	F
		Fig.68	181.76	Р
		Fig.69		

For $\pi/4$ DQPSK

Channel	Packet	Dwell Tir	me (ms)	Conclusion
	DH1	Fig.70	100.00	D
		Fig.71	122.99	Р
20	39 DH3	Fig.72	100.40	Р
39		Fig.73	188.46	F
		Fig.74	164.55	Р
		DH5 Fig.75		

For 8DPSK

Channel	Packet	Dwell Tir	me (ms)	Conclusion
39 DH1		Fig.76	123.04	D
	Fig.77	123.04	F	
	DH3	Fig.78	173.62	Р



	Fig.79		
DH5	Fig.80	170 12	Р
DHD	Fig.81	179.13	F

Conclusion: PASS Test graphs as below:

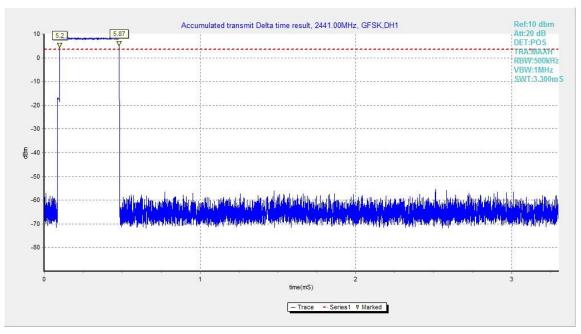


Fig.64. Time of occupancy (Dwell Time): Channel 39, Packet DH1

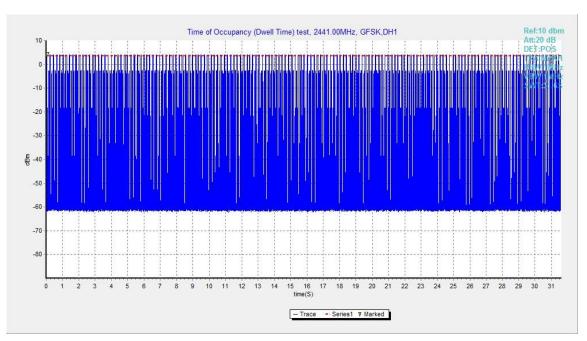


Fig.65. Number of Transmissions Measurement: Channel 39, Packet DH1

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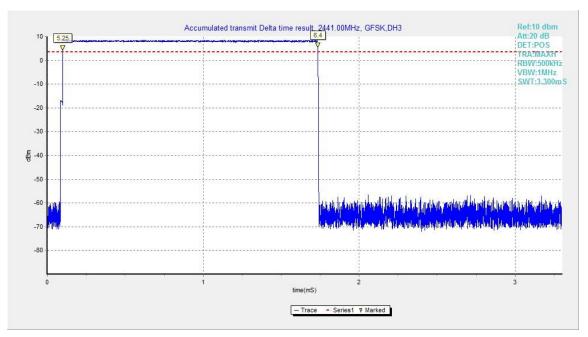


Fig.66. Time of occupancy (Dwell Time): Channel 39, Packet DH3

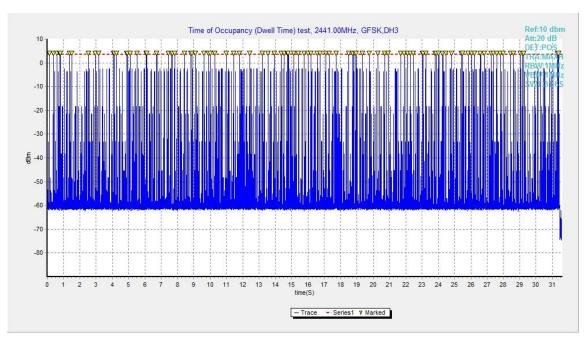


Fig.67. Number of Transmissions Measurement: Channel 39, Packet DH3

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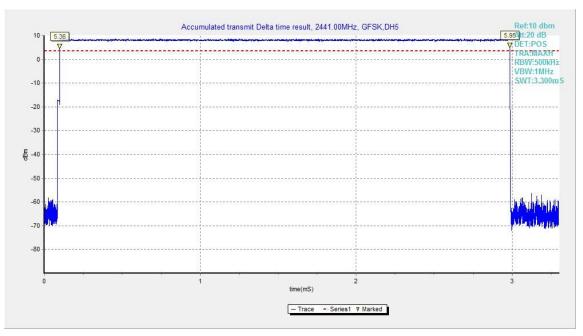


Fig.68. Time of occupancy (Dwell Time): Channel 39, Packet DH5

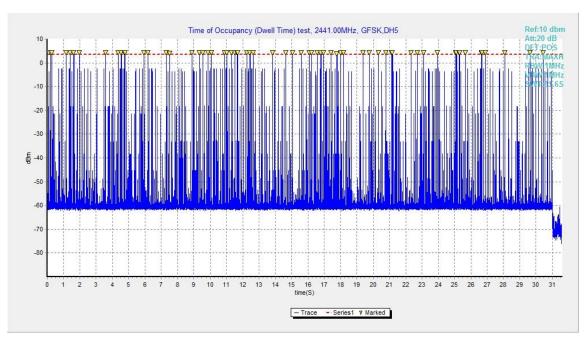


Fig.69. Number of Transmissions Measurement: Channel 39, Packet DH5

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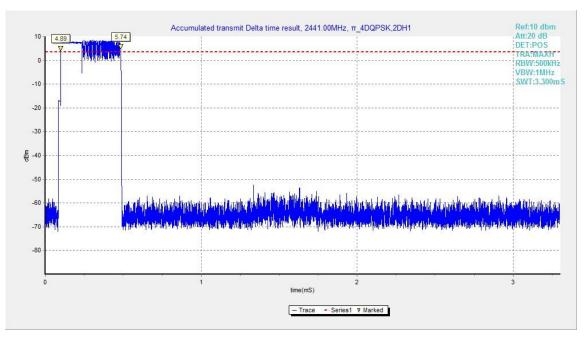


Fig.70. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1

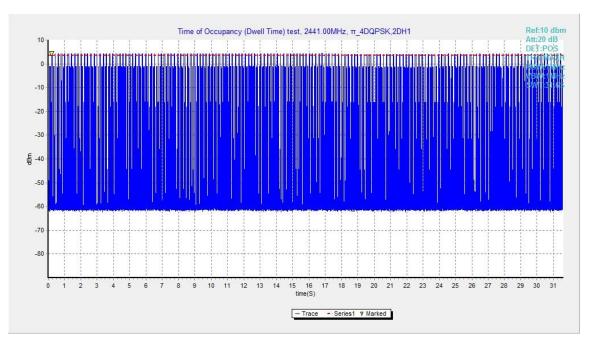


Fig.71. Number of Transmissions Measurement: Channel 39, Packet 2-DH1

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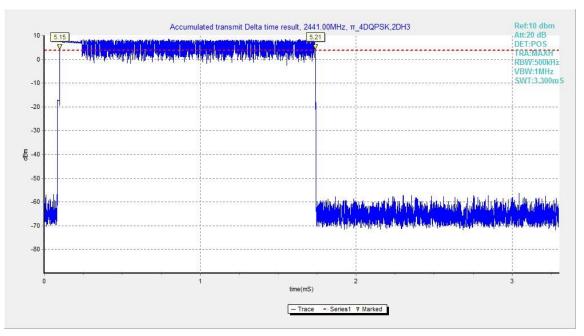


Fig.72. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3

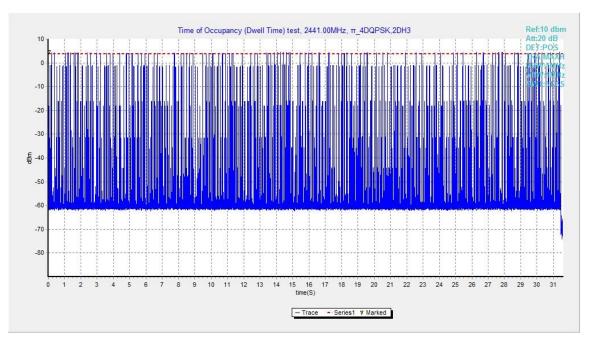


Fig.73. Number of Transmissions Measurement: Channel 39, Packet 2-DH3

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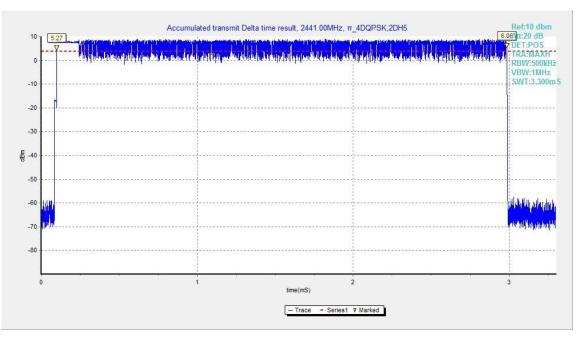


Fig.74. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH5

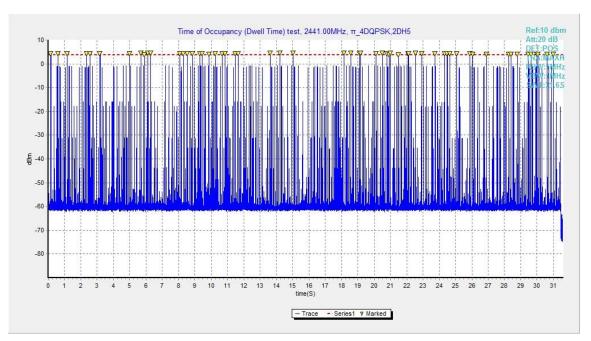


Fig.75. Number of Transmissions Measurement: Channel 39, Packet 2-DH5

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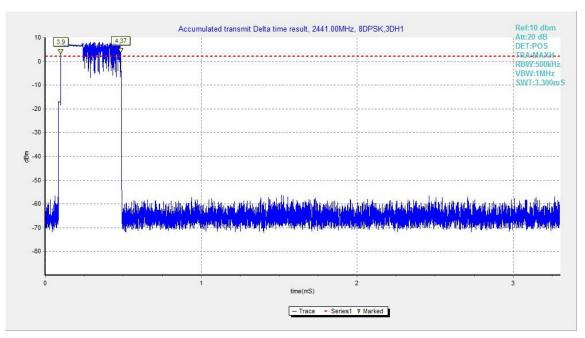


Fig.76. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH1

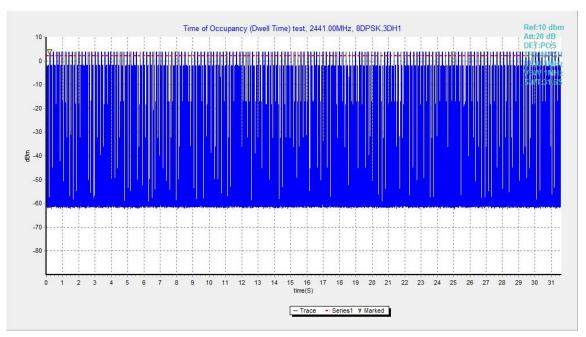


Fig.77. Number of Transmissions Measurement: Channel 39, Packet 3-DH1

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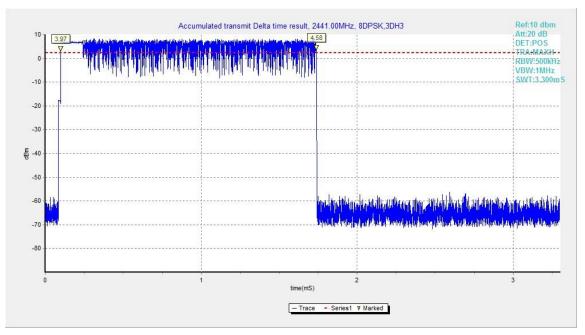


Fig.78. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3

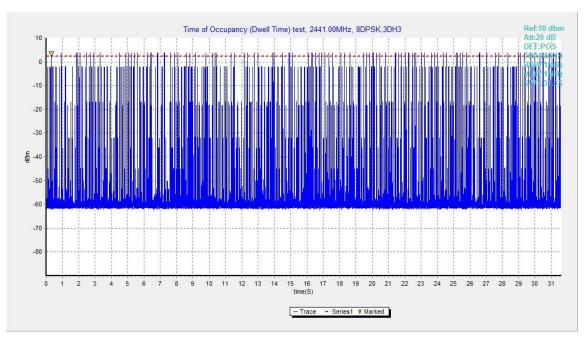


Fig.79. Number of Transmissions Measurement: Channel 39, Packet 3-DH3

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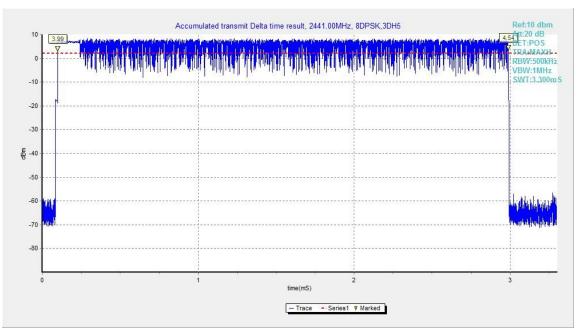


Fig.80. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH5

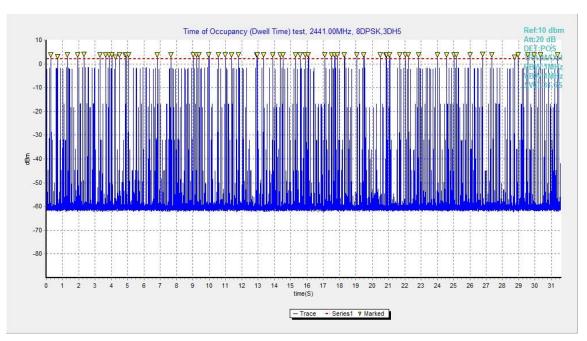


Fig.81. Number of Transmissions Measurement: Channel 39, Packet 3-DH5



A.7. 20dB Bandwidth

Method of Measurement: See ANSI C63.10-clause 6.9.2

Measurement Procedure - Unwanted Emissions

- 1. Set RBW = 30kHz.
- 2. Set VBW = 100 kHz.
- 3. Set span to 3MHz
- 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).

Measurement Limit:

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

Use NdB Down function of the SA to measure the 20dB Bandwidth

* 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.82	953.25	NA
39	Fig.83	954.75	NA
78	Fig.84	941.25	NA

Form/4 DQPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.85	1312.50	NA
39	Fig.86	1317.00	NA
78	Fig.87	1314.00	NA

For 8DPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.88	1293.75	NA
39	Fig.89	1292.25	NA
78	Fig.90	1297.50	NA

Conclusion: NA

Test graphs as below:

TTL

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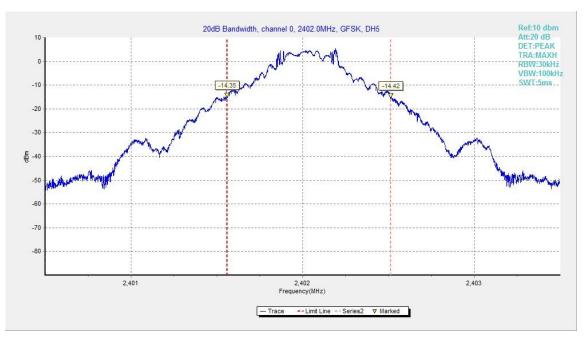


Fig.82. 20dB Bandwidth: GFSK, Channel 0

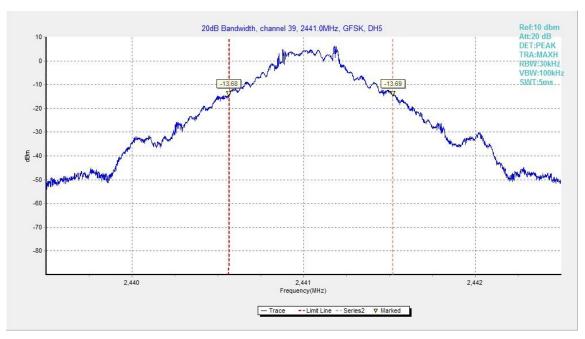


Fig.83. 20dB Bandwidth: GFSK, Channel 39



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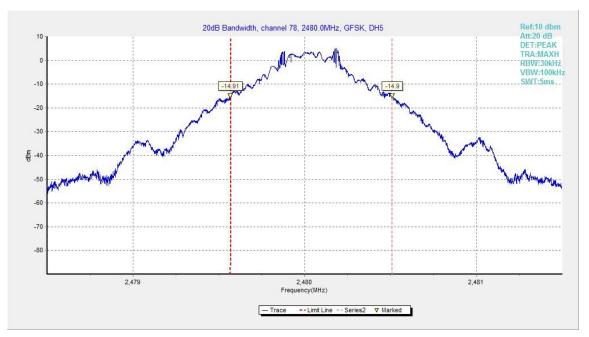


Fig.84. 20dB Bandwidth: GFSK, Channel 78

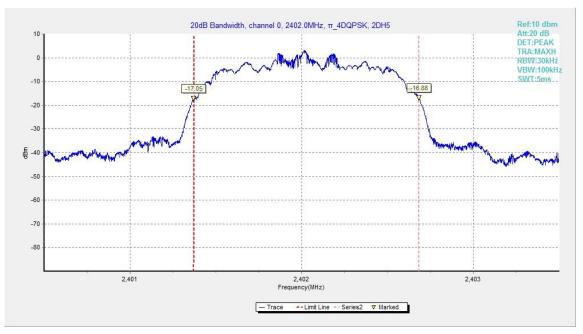


Fig.85. 20dB Bandwidth: π/4 DQPSK, Channel 0

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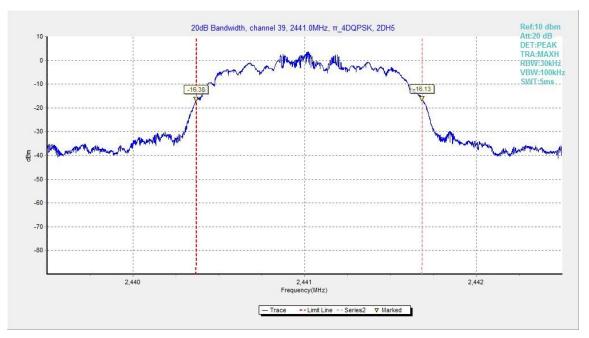


Fig.86. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 39

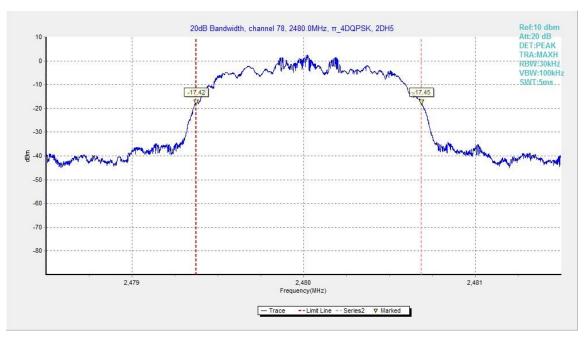


Fig.87. 20dB Bandwidth: π/4 DQPSK, Channel 78

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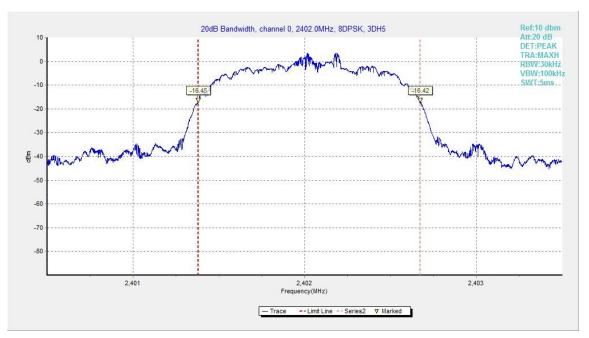


Fig.88. 20dB Bandwidth: 8DPSK, Channel 0

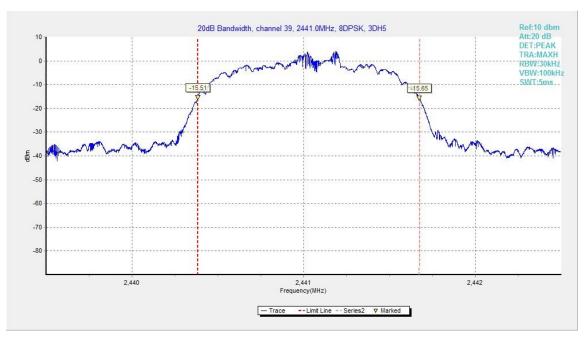


Fig.89. 20dB Bandwidth: 8DPSK, Channel 39



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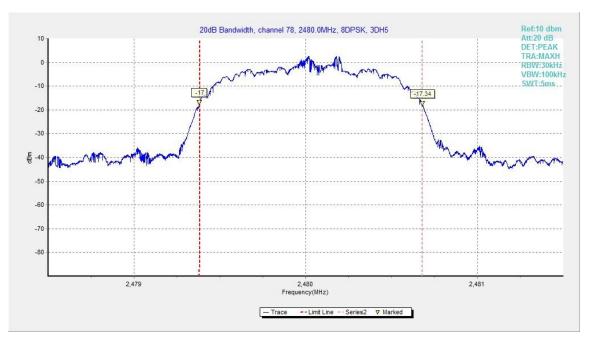


Fig.90. 20dB Bandwidth: 8DPSK, Channel 78



A.8. Carrier Frequency Separation

Method of Measurement: See ANSI C63.10-clause 7.8.2

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = 3MHz
- RBW=300kHz
- VBW=300kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

Search the peak marks of the middle frequency and adjacent channel, then record the separation between them.

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

Measurement Limit:

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

Measurement Result:

For **GFSK**

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.91	1029.00	Р
For π/4 DQPSK			
Channel	Carrier frequency separation (kHz) Conclusion		Conclusion

Fig.92

39 For 8DPSK

Channel	Carrier frequency	separation (kHz)	Conclusion
39	Fig.93	1123.50	Р

1178.25

Conclusion: PASS

Test graphs as below:

Ρ

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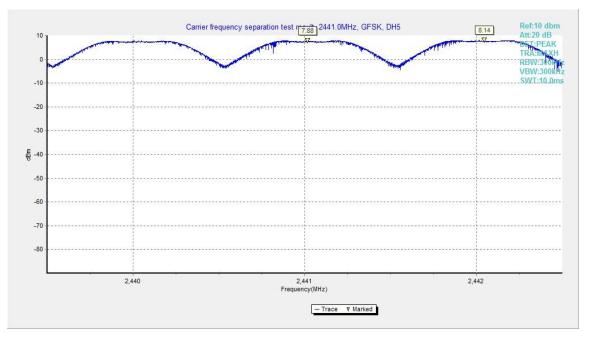


Fig.91. Carrier frequency separation measurement: GFSK, Channel 39

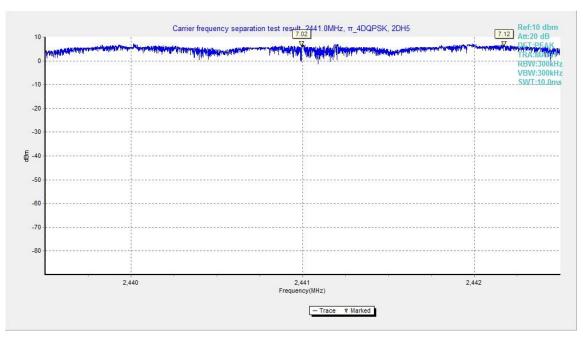


Fig.92. Carrier frequency separation measurement: $\pi/4$ DQPSK, Channel 39

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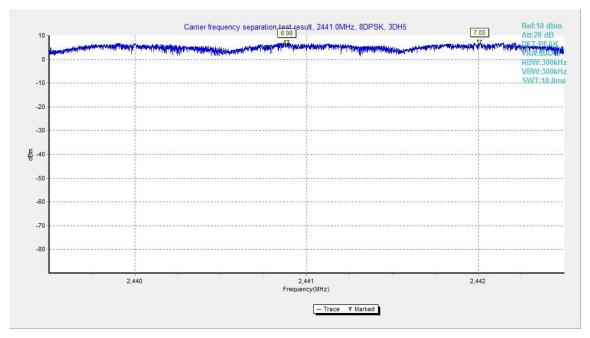


Fig.93. Carrier frequency separation measurement: 8DPSK, Channel 39



A.9. Number of Hopping Channels

Method of Measurement: See ANSI C63.10-clause 7.8.3

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = the frequency band of operation
- RBW = 500kHz
- VBW = 500kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

Measurement Limit:

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

Measurement Result:

For **GFSK**

Channel	Number of hop	Conclusion		
0~39	Fig.94	ig.94 70		
40~78	Fig.95	19	P	

Form/4 DQPSK

Channel	Number of hop	Conclusion		
0~39	Fig.96	Fig.96 70		
40~78	Fig.97	19	P I	

For 8DPSK

Channel	Number of hop	Conclusion		
0~39	Fig.98	Fig.98 70		
40~78	Fig.99	19	F	

Conclusion: PASS

Test graphs as below:

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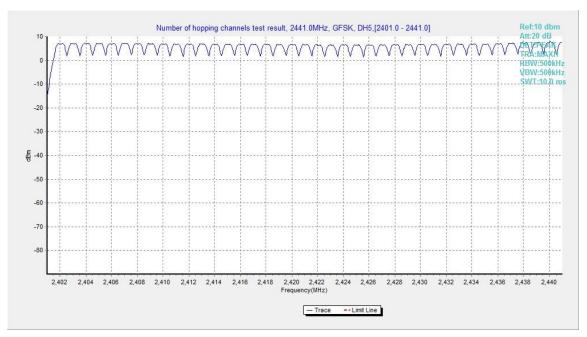


Fig.94. Number of hopping frequencies: GFSK, Channel 0 - 39

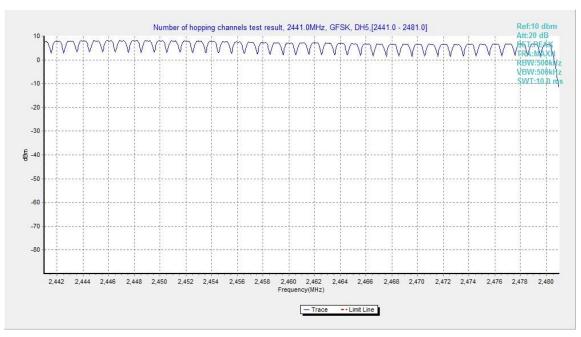


Fig.95. Number of hopping frequencies: GFSK, Channel 40 - 78

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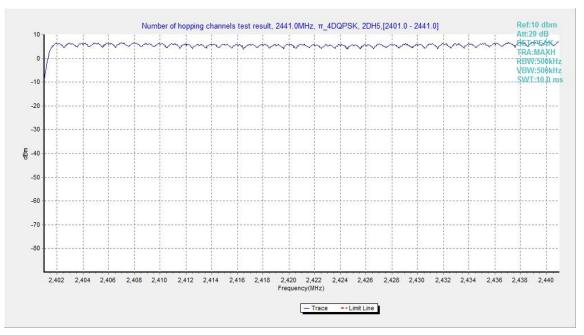


Fig.96. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 0 - 39

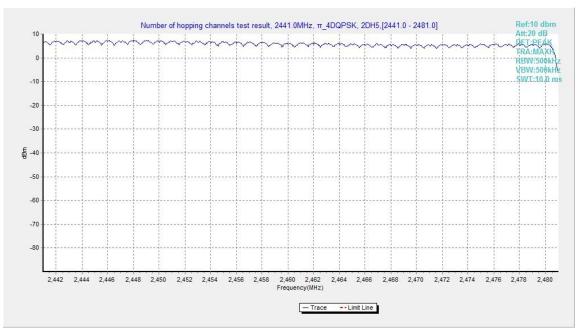


Fig.97. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 40 - 78

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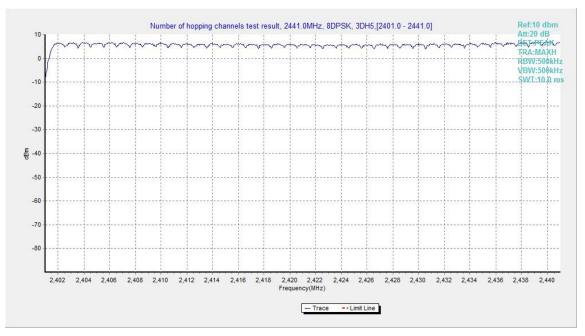


Fig.98. Number of hopping frequencies: 8DPSK, Channel 0 - 39

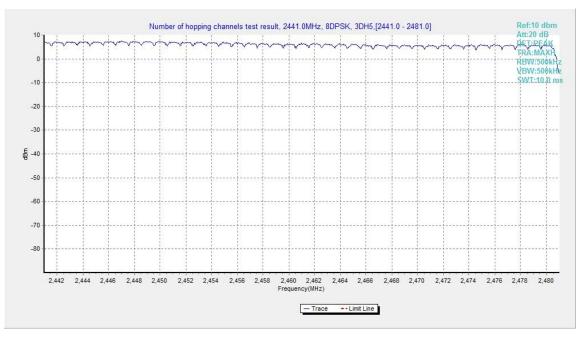


Fig.99. Number of hopping frequencies: 8DPSK, Channel 40 - 78



A.10. AC Powerline Conducted Emission

Method of Measurement: See ANSI C63.10-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.

5. 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: Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBµV)	Conclusion
0.15 to 0.5	66 to 56	
0.5 to 5	56	Р
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 (dBµV)	Conclusion
0.15 to 0.5	56 to 46	
0.5 to 5	46	Р
5 to 30	50	
NOTE: The limit decreases linearly wit	h the logarithm of the frequency	in the range 0.15 MHz to
0.5 MHz.		

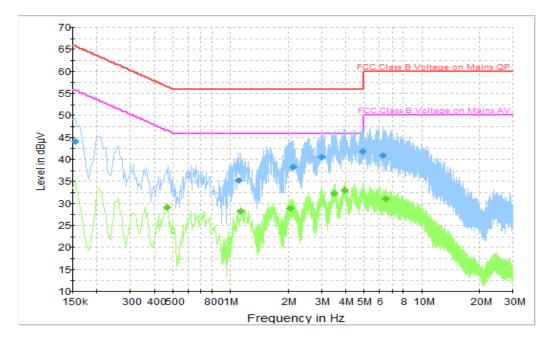
The measurement is made according to ANSI C63.10

Conclusion: PASS

Test graphs as below:



Traffic: Set.2



Final Result 1

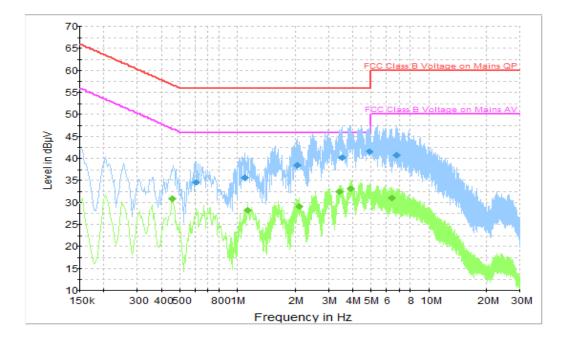
Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.154500	44.1	2000.0	9.000	On	L1	20.0	21.6	65.8
1.099500	35.1	2000.0	9.000	On	L1	19.8	20.9	56.0
2.121000	38.3	2000.0	9.000	On	L1	19.7	17.7	56.0
3.016500	40.6	2000.0	9.000	On	L1	19.7	15.4	56.0
4.879500	41.8	2000.0	9.000	On	L1	19.7	14.2	56.0
6.297000	40.8	2000.0	9.000	On	L1	19.8	19.2	60.0

Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.465000	29.2	2000.0	9.000	On	L1	19.9	17.4	46.6
1.140000	28.3	2000.0	9.000	On	L1	19.8	17.7	46.0
2.058000	28.8	2000.0	9.000	On	L1	19.7	17.2	46.0
3.498000	32.3	2000.0	9.000	On	L1	19.7	13.7	46.0
3.970500	32.9	2000.0	9.000	On	L1	19.7	13.1	46.0
6.463500	30.9	2000.0	9.000	On	L1	19.8	19.1	50.0



Idle: Set.2



Final Result 1

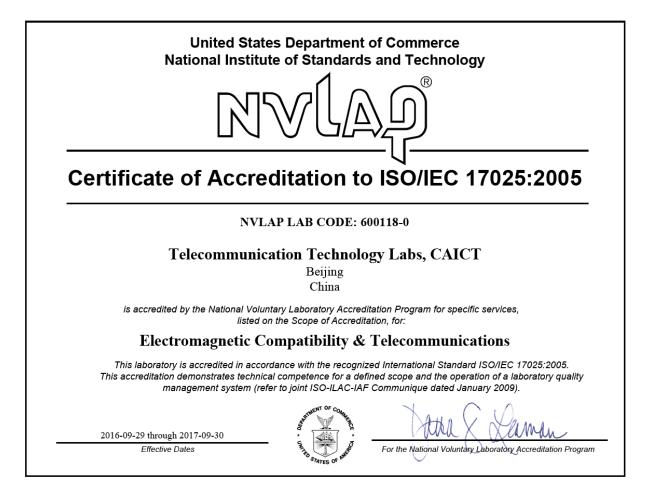
Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.609000	34.7	2000.0	9.000	On	L1	19.9	21.3	56.0
1.090500	35.6	2000.0	9.000	On	L1	19.8	20.4	56.0
2.067000	38.4	2000.0	9.000	On	L1	19.7	17.6	56.0
3.529500	40.1	2000.0	9.000	On	L1	19.7	15.9	56.0
4.879500	41.5	2000.0	9.000	On	L1	19.7	14.5	56.0
6.765000	40.8	2000.0	9.000	On	L1	19.8	19.2	60.0

Final Result 2

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.456000	30.8	2000.0	9.000	On	L1	19.9	15.9	46.8
1.140000	28.2	2000.0	9.000	On	L1	19.8	17.8	46.0
2.098500	29.1	2000.0	9.000	On	L1	19.7	16.9	46.0
3.426000	32.4	2000.0	9.000	On	L1	19.7	13.6	46.0
3.916500	33.1	2000.0	9.000	On	L1	19.7	12.9	46.0
6.369000	31.0	2000.0	9.000	On	L1	19.8	19.0	50.0



ANNEX E: Accreditation Certificate



END OF REPORT