

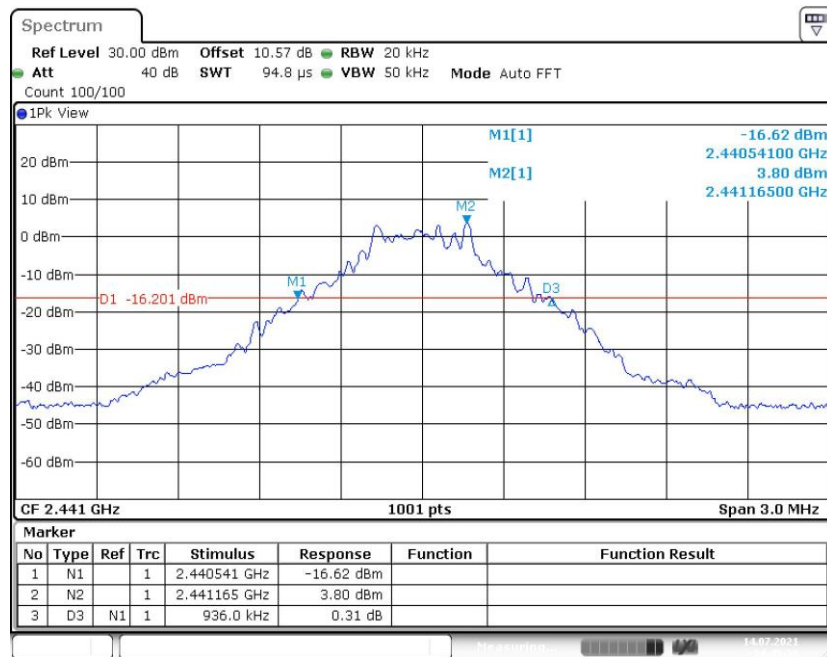


Fig. 59 20dB Bandwidth (GFSK, CH39)

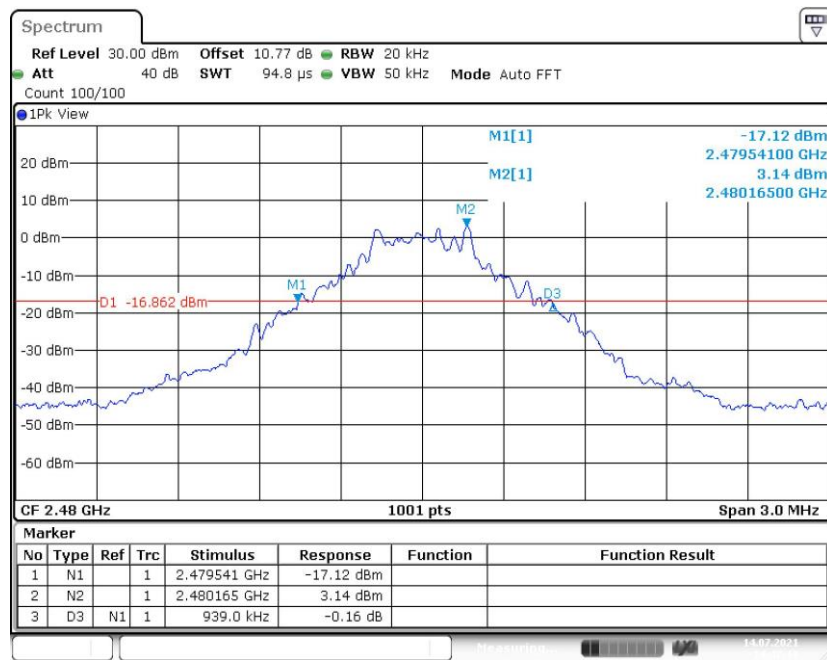
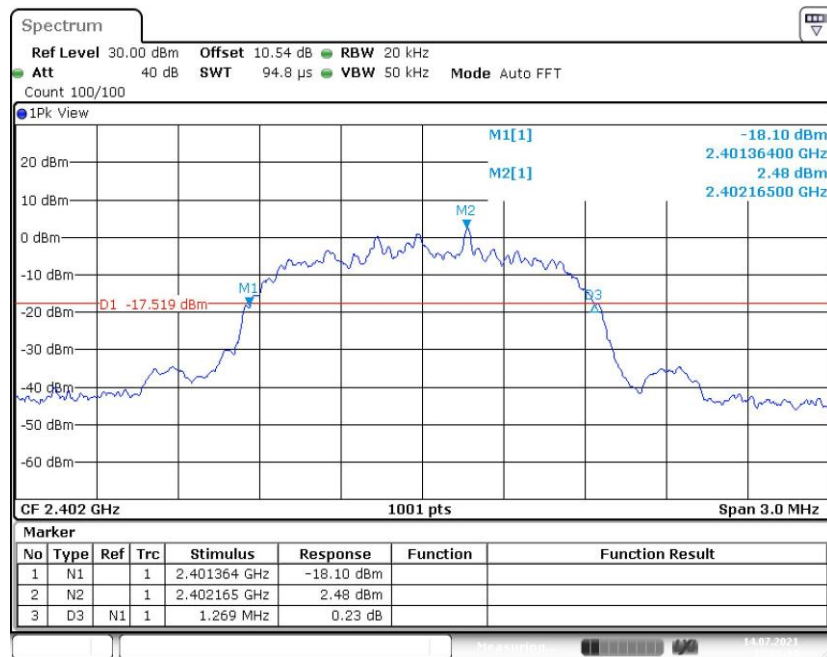
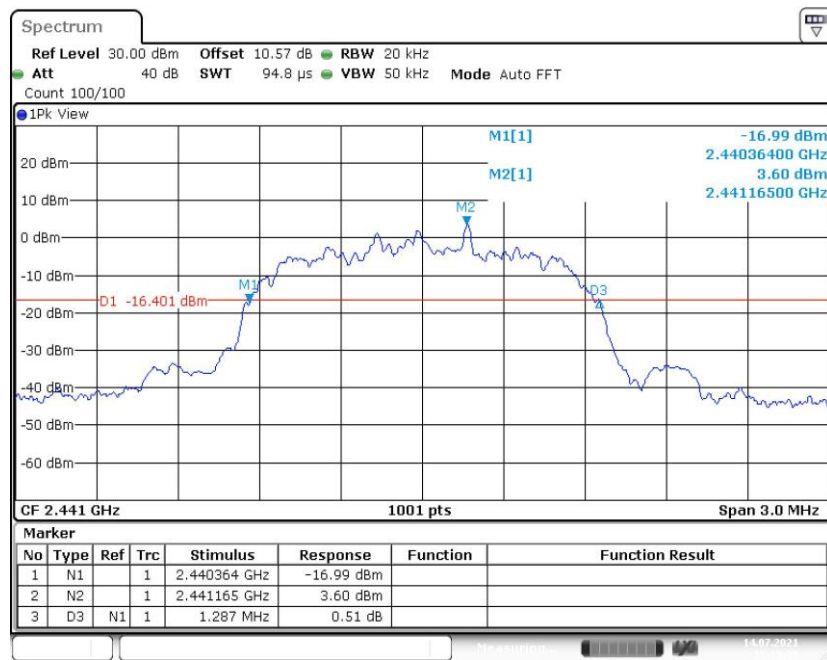


Fig. 60 20dB Bandwidth (GFSK, CH78)


Fig. 61 20dB Bandwidth ($\pi/4$ DQPSK, CH0)

Fig. 62 20dB Bandwidth ($\pi/4$ DQPSK, CH39)

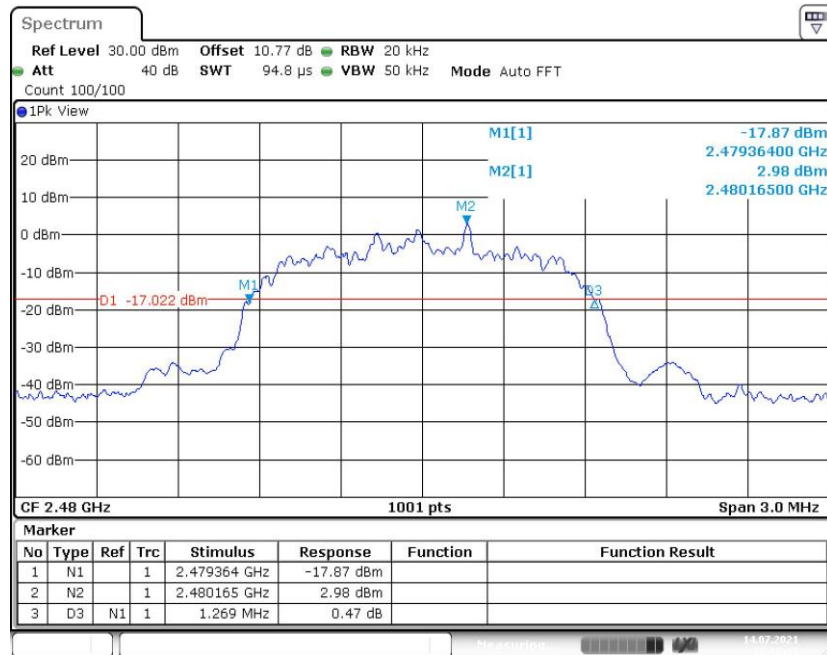


Fig. 63 20dB Bandwidth ($\pi/4$ DQPSK, CH78)

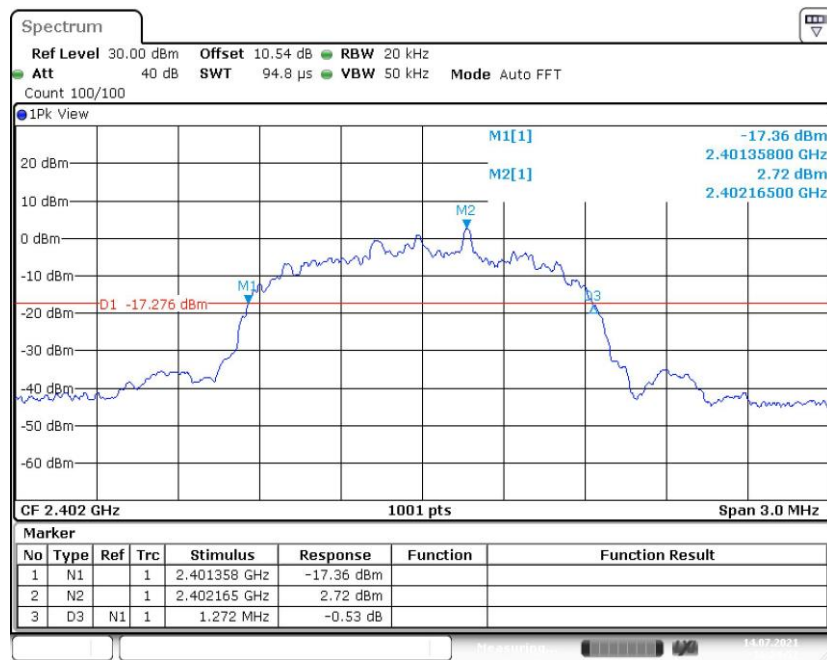


Fig. 64 20dB Bandwidth (8DPSK, CH0)

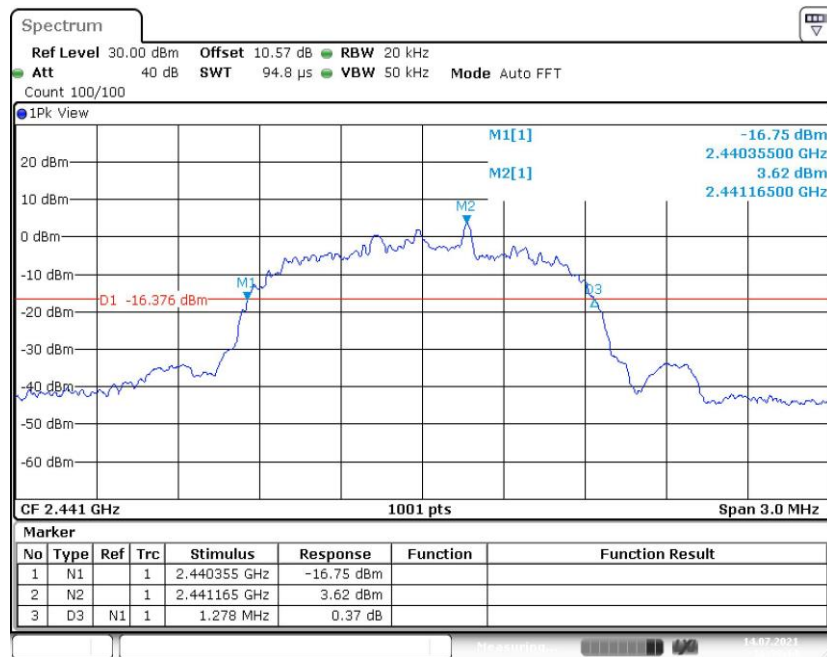


Fig. 65 20dB Bandwidth (8DPSK, CH39)

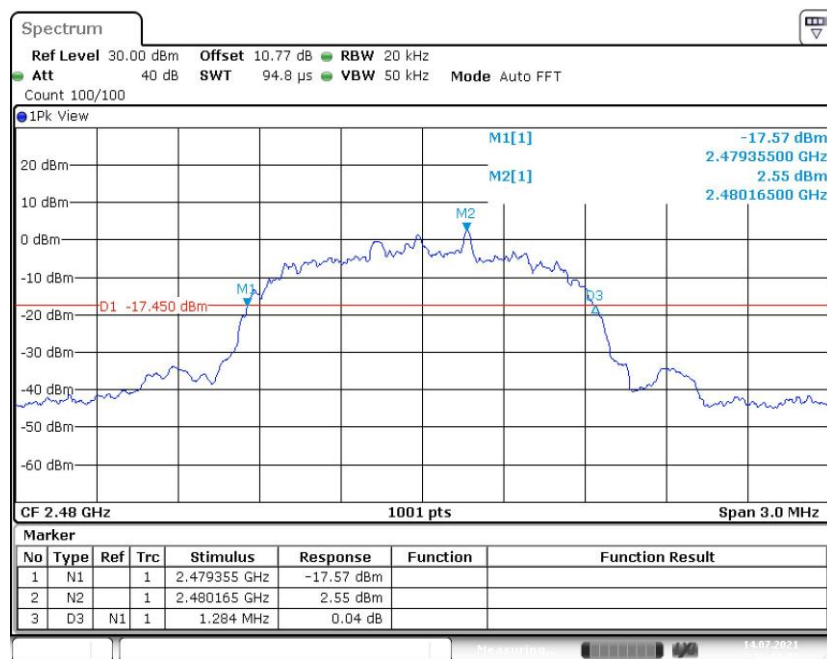


Fig. 66 20dB Bandwidth (8DPSK, CH78)

A.6 Time of Occupancy (Dwell Time)

Measurement Limit:

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

Measurement Results:

Mode	Channel	Packet	BurstWidth (ms)		TotalHops (Num)		Result (ms)	Conclusion
GFSK	39	DH5	Fig.67	2.88	Fig.68	70	202.00	P
$\pi/4$ DQPSK	39	2-DH5	Fig.69	2.88	Fig.70	100	288.00	P
8DPSK	39	3-DH5	Fig.71	2.88	Fig.72	100	288.00	P

See below for test graphs.

Conclusion: Pass

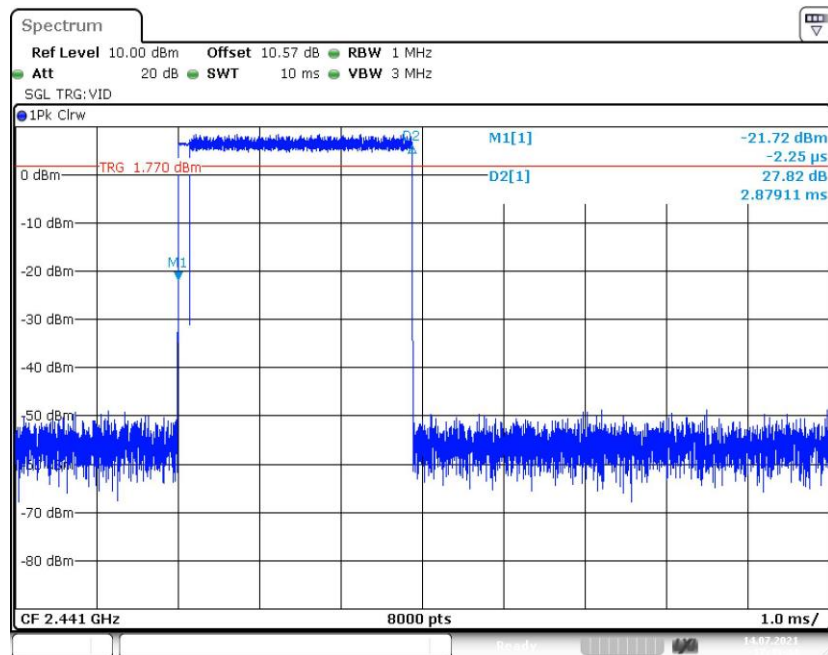


Fig. 67 BurstWidth (Dwell Time) (GFSK, CH39)

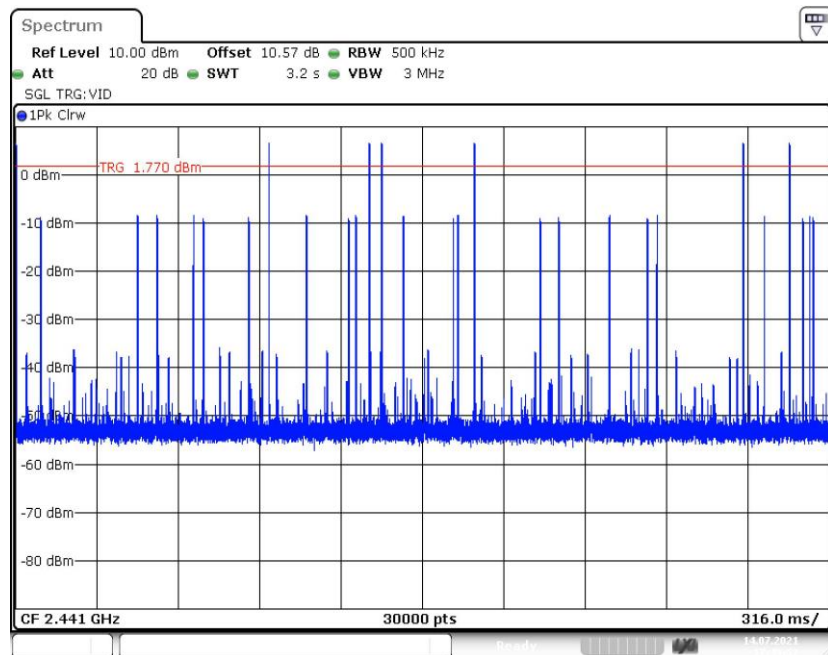


Fig. 68 Number of Burst in Observation Period (Dwell Time) (GFSK, CH39)

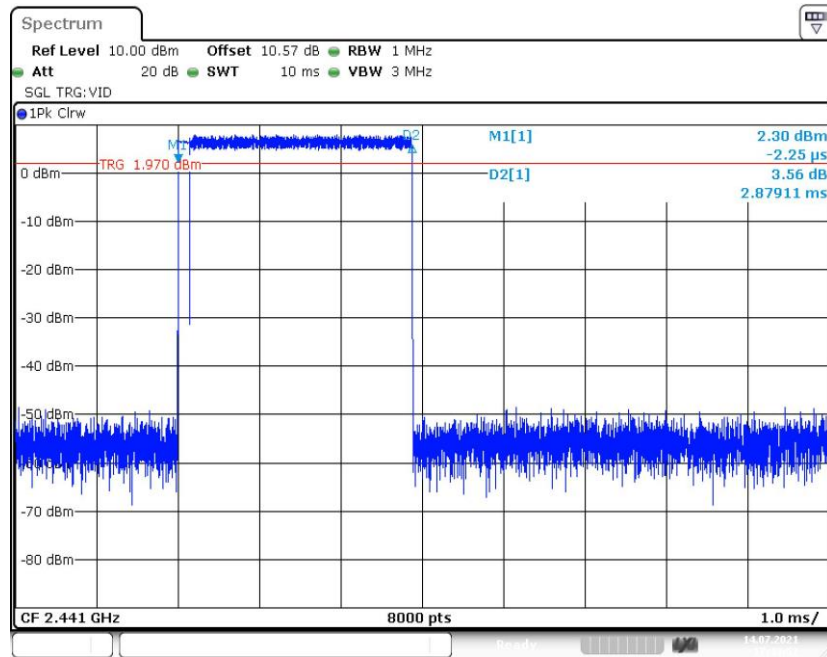


Fig. 69 BurstWidth (Dwell Time) ($\pi/4$ DQPSK, CH39)

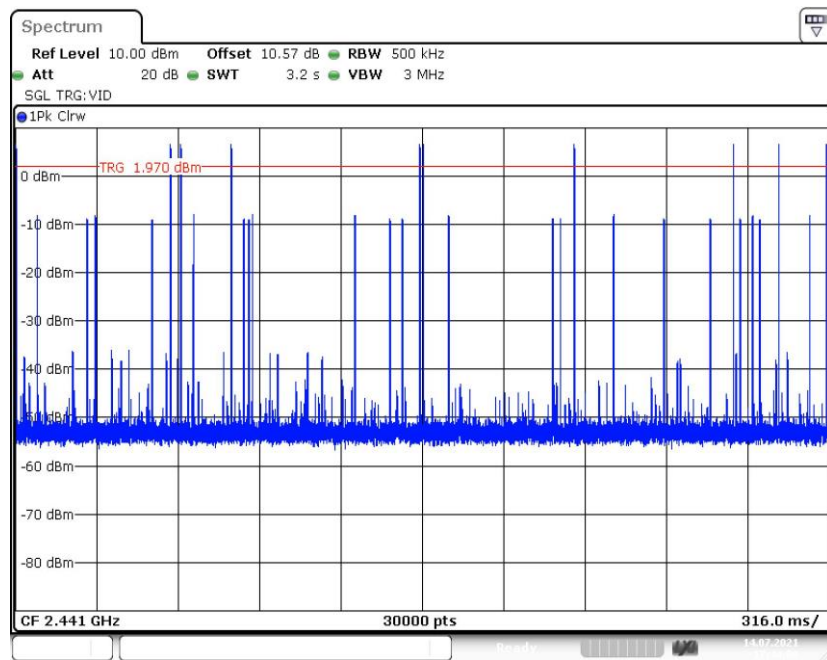


Fig. 70 Number of Burst in Observation Period (Dwell Time) ($\pi/4$ DQPSK, CH39)

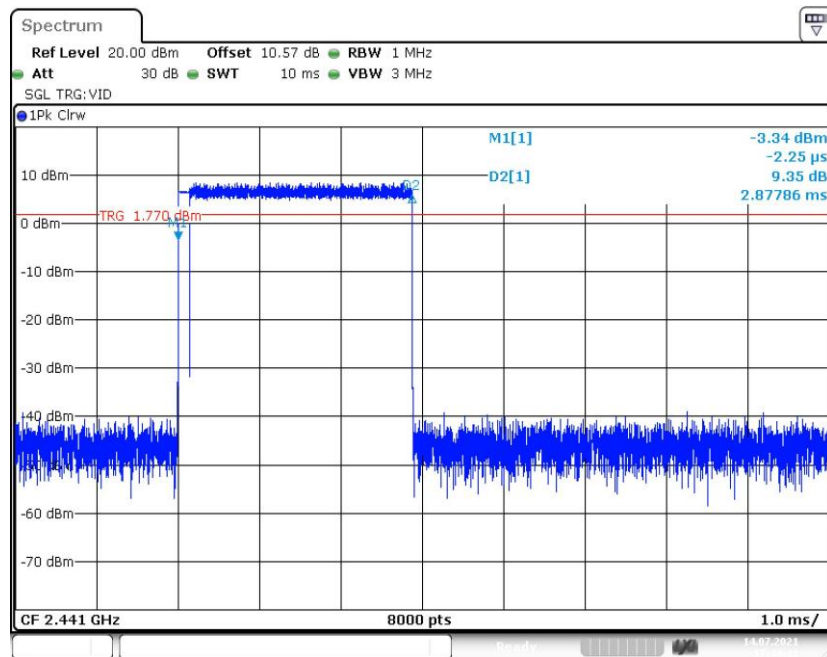


Fig. 71 BurstWidth (Dwell Time) (8DPSK, CH39)

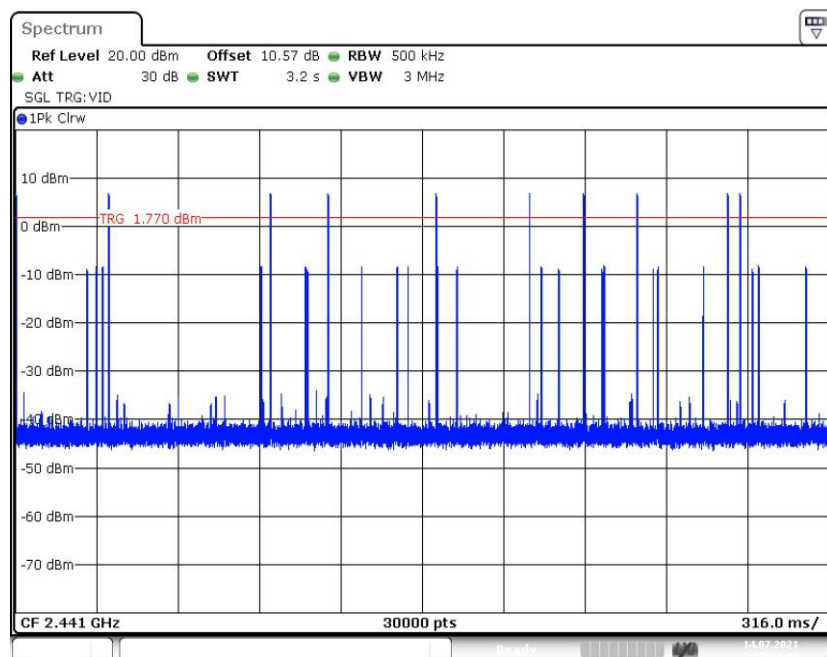


Fig. 72 Number of Burst in Observation Period (Dwell Time) (8DPSK, CH39)

A.7 Number of Hopping Channels**Measurement Limit:**

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

Measurement Results:

Mode	Packet	Number of Hopping Channels	Test results (Num)	Conclusion
GFSK	DH5	Fig.73	79	P
$\pi/4$ DQPSK	2-DH5	Fig.74	79	P
8DPSK	3-DH5	Fig.75	79	P

See below for test graphs.

Conclusion: Pass

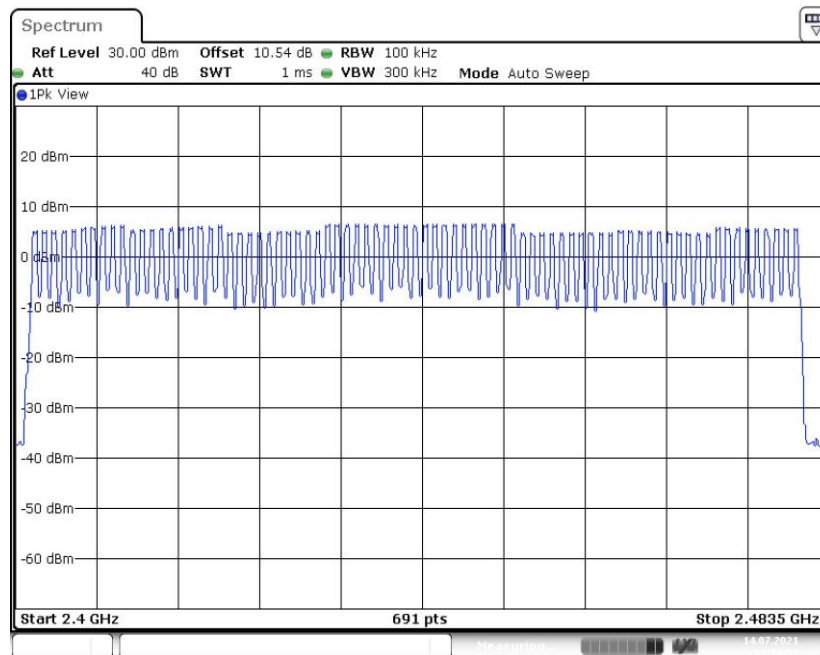


Fig. 73 Number of Hopping Channels (GFSK, Hopping)

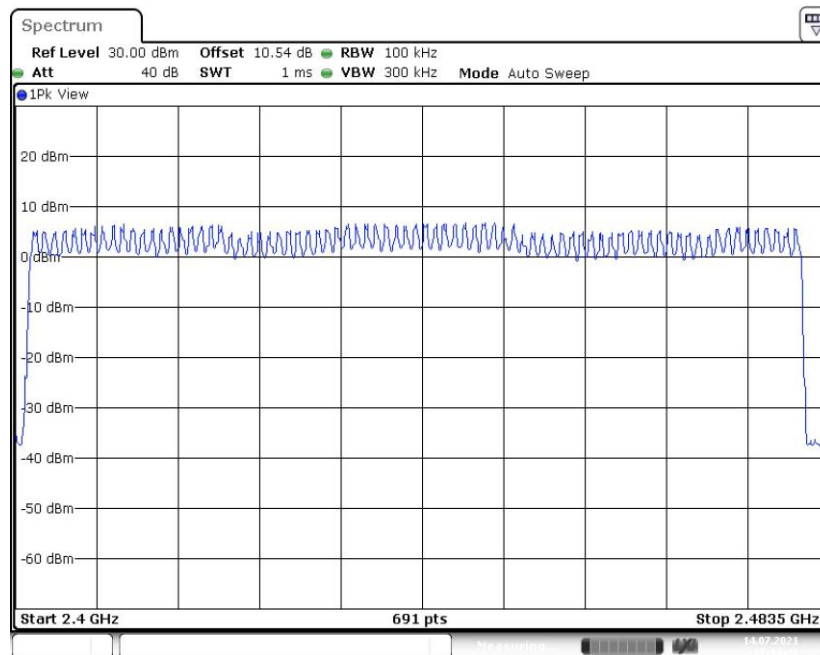


Fig. 74 Number of Hopping Channels ($\pi/4$ DQPSK, Hopping)

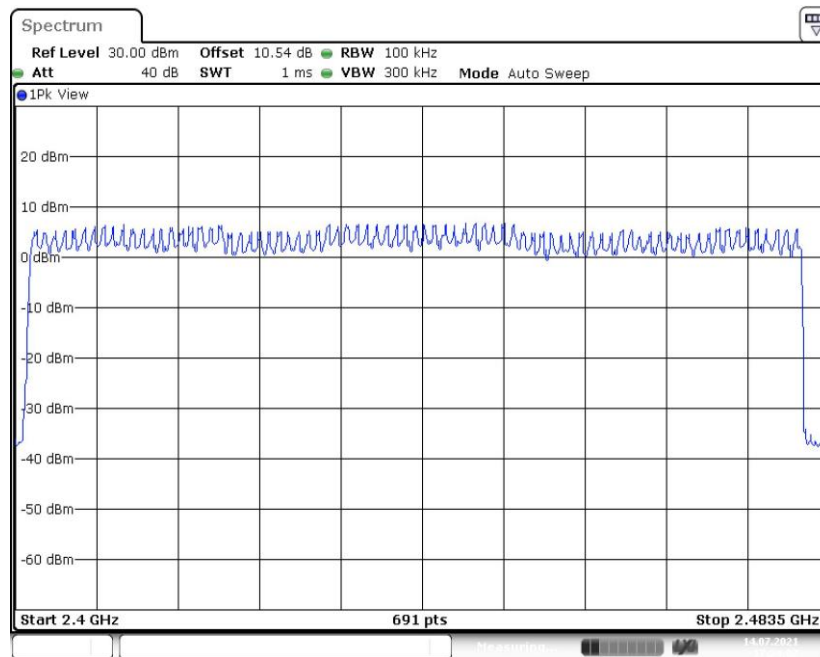


Fig. 75 Number of Hopping Channels (8DPSK, Hopping)

A.8 Carrier Frequency Separation

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)	By a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater

Measurement Results:

Mode	Channel	Packet	Separation of hopping channels	Test result (kHz)	Conclusion
GFSK	39	DH5	Fig.76	1000.00	P
$\pi/4$ DQPSK	39	2-DH5	Fig.77	1003.00	P
8DPSK	39	3-DH5	Fig.78	1000.00	P

See below for test graphs.

Conclusion: Pass

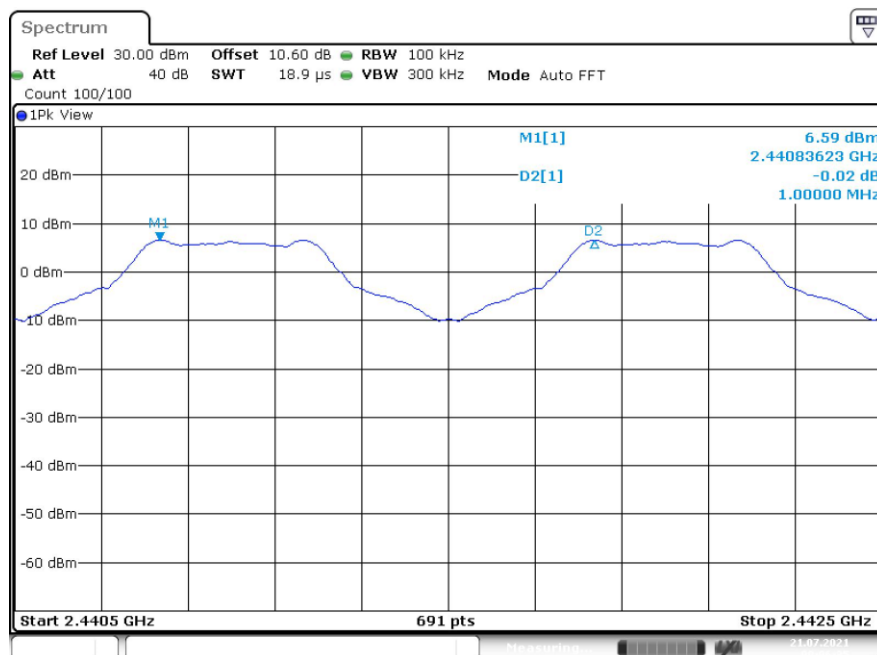


Fig. 76 Carrier Frequency Separation (GFSK, CH39)

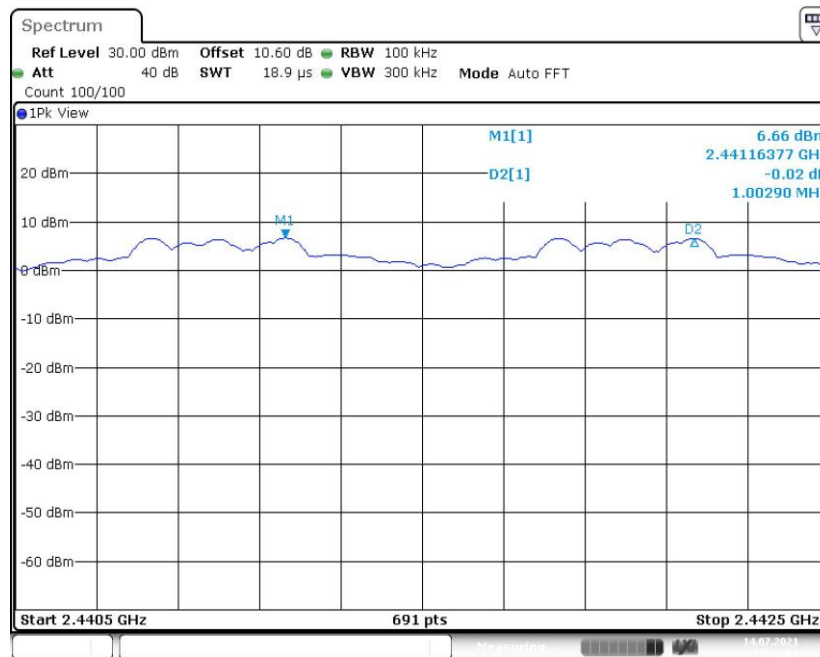


Fig. 77 Carrier Frequency Separation ($\pi/4$ DQPSK, CH39)

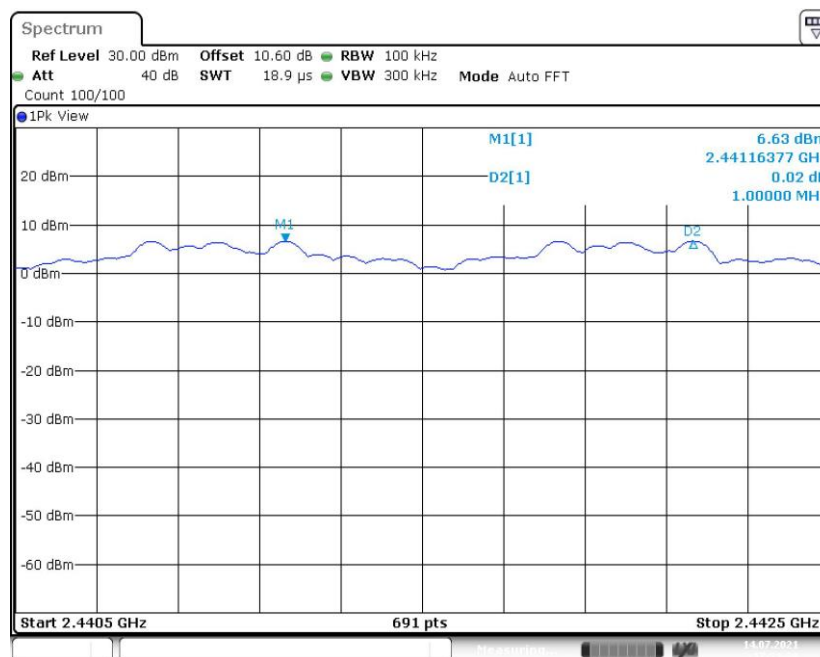


Fig. 78 Carrier Frequency Separation (8DPSK, CH39)

A.9 AC Power line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

BT-AE2, AE3

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
			Traffic	Idle	
0.15 to 0.5	66 to 56	56 to 46	Fig.79	Fig.80	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.

Note: The measurement results include the L1 and N measurements.

AE2 was the model with the worst results in the test.

See below for test graphs.

Conclusion: Pass

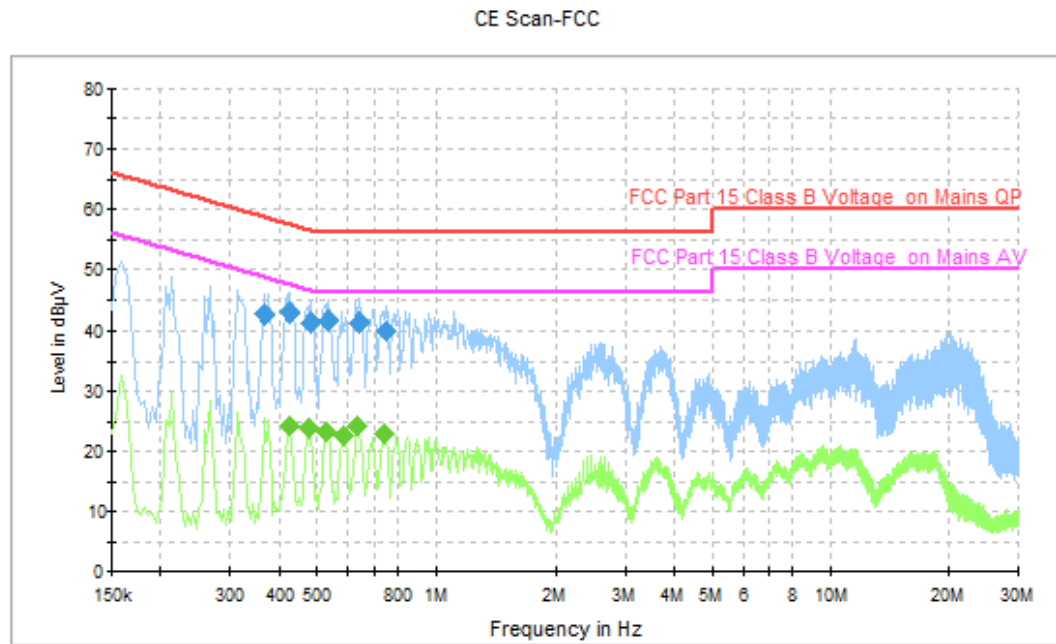


Fig. 79 AC Power line Conducted Emission (Traffic)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.366000	42.5	GND	N	9.6	16.0	58.6
0.426000	42.9	GND	N	9.7	14.4	57.3
0.482000	41.2	GND	N	9.7	15.1	56.3
0.534000	41.5	GND	N	9.7	14.5	56.0
0.642000	41.3	GND	N	9.6	14.7	56.0
0.750000	39.9	GND	N	9.6	16.1	56.0

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.426000	24.1	GND	N	9.7	23.2	47.3
0.474000	23.8	GND	N	9.7	22.6	46.4
0.526000	23.2	GND	N	9.7	22.8	46.0
0.582000	22.7	GND	N	9.6	23.3	46.0
0.634000	24.2	GND	N	9.6	21.8	46.0
0.742000	23.0	GND	N	9.6	23.0	46.0

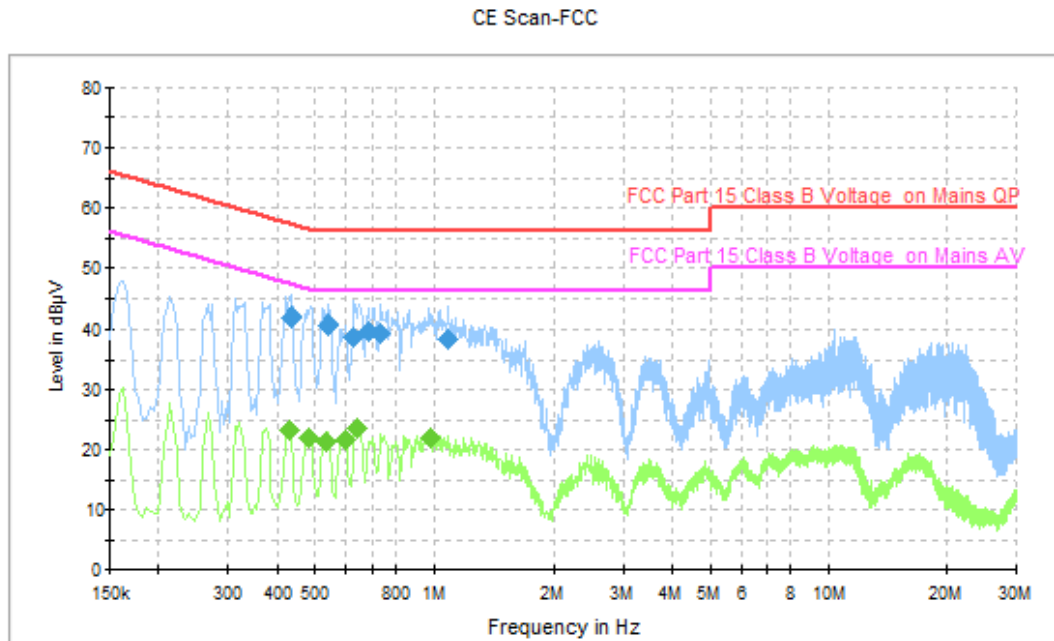


Fig. 80 AC Power line Conducted Emission (Idle)

Measurement Results: Quasi Peak

Frequency (MHz)	Quasi Peak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.434000	42.0	GND	N	9.7	15.1	57.2
0.542000	40.5	GND	N	9.7	15.5	56.0
0.626000	38.8	GND	N	9.6	17.2	56.0
0.682000	39.8	GND	N	9.6	16.2	56.0
0.734000	39.4	GND	N	9.6	16.6	56.0
1.086000	38.3	GND	N	9.6	17.7	56.0

Measurement Results: Average

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.430000	23.1	GND	N	9.7	24.1	47.3
0.482000	22.0	GND	N	9.7	24.3	46.3
0.534000	21.4	GND	N	9.7	24.6	46.0
0.594000	21.8	GND	N	9.6	24.2	46.0
0.638000	23.6	GND	N	9.6	22.4	46.0
0.978000	22.1	GND	N	9.6	23.9	46.0

END OF REPORT