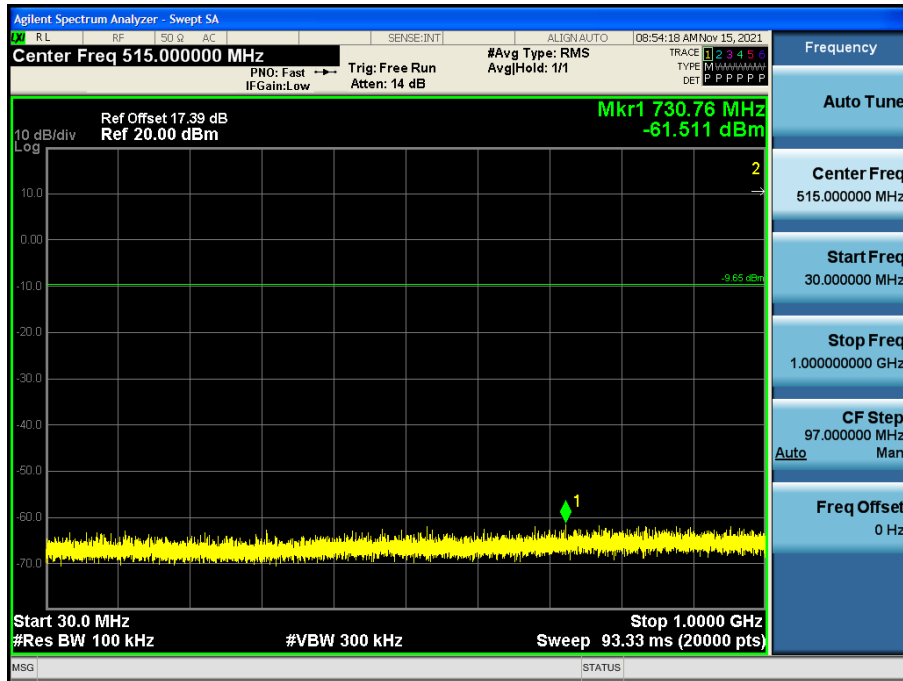


[Ant.2]

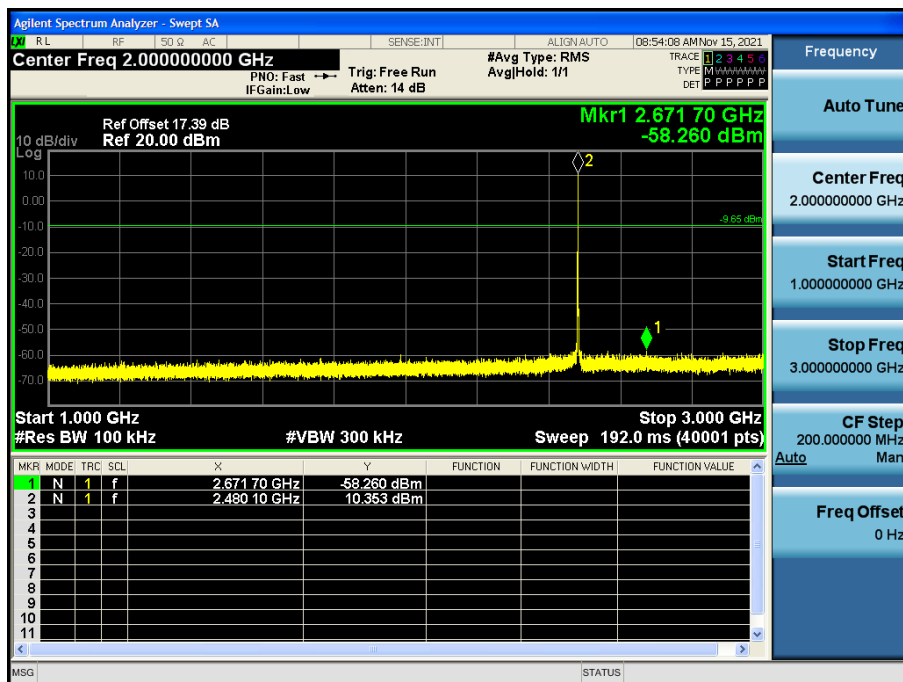
Test Plots (8DPSK)- 30 MHz - 1 GHz

Spurious Emission (CH.78)



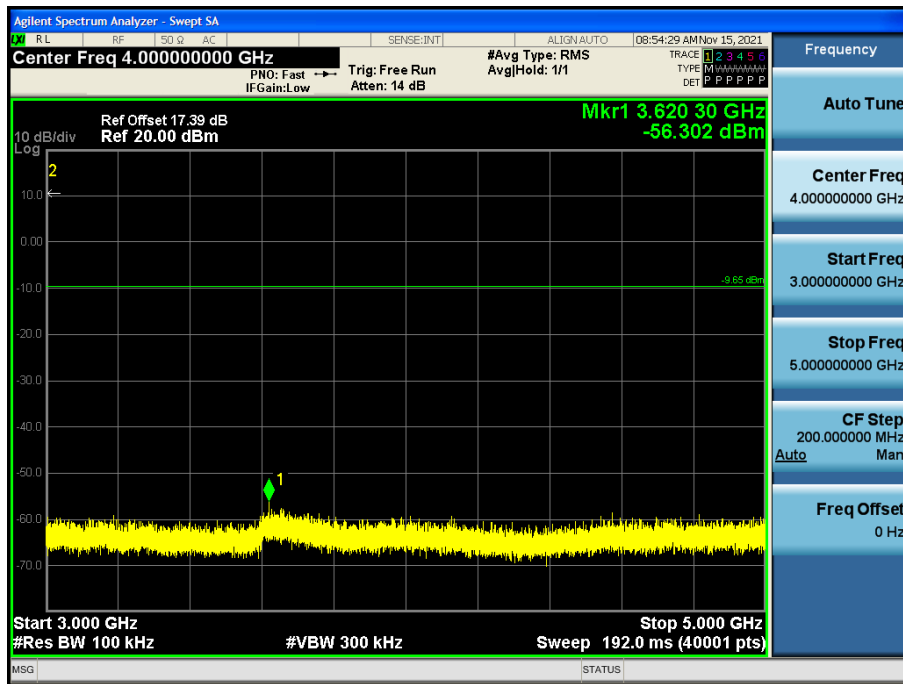
Test Plots (8DPSK)- 1 GHz – 3 GHz

Spurious Emission (CH.78)



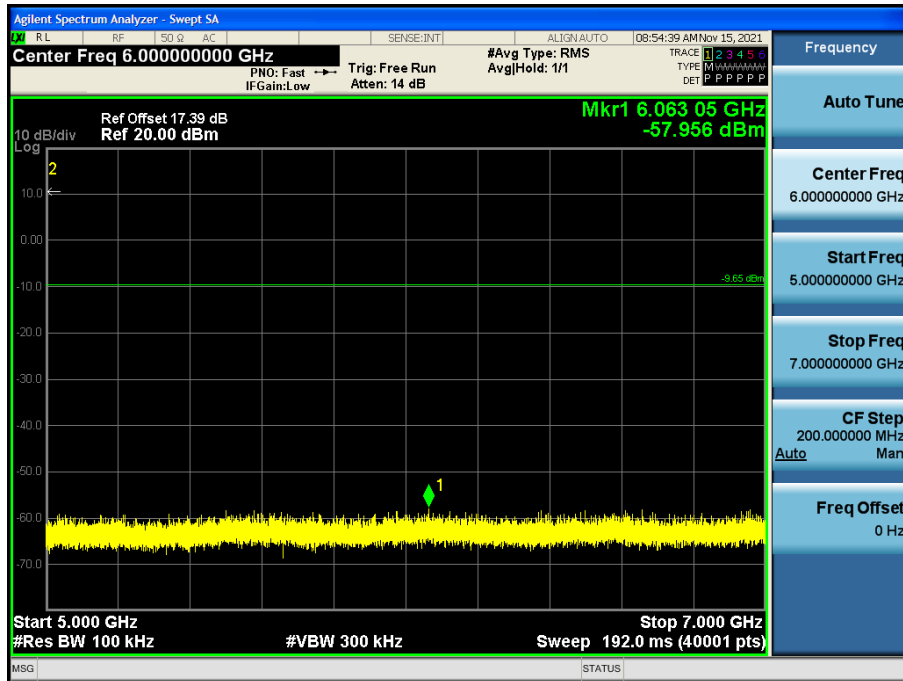
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.78)



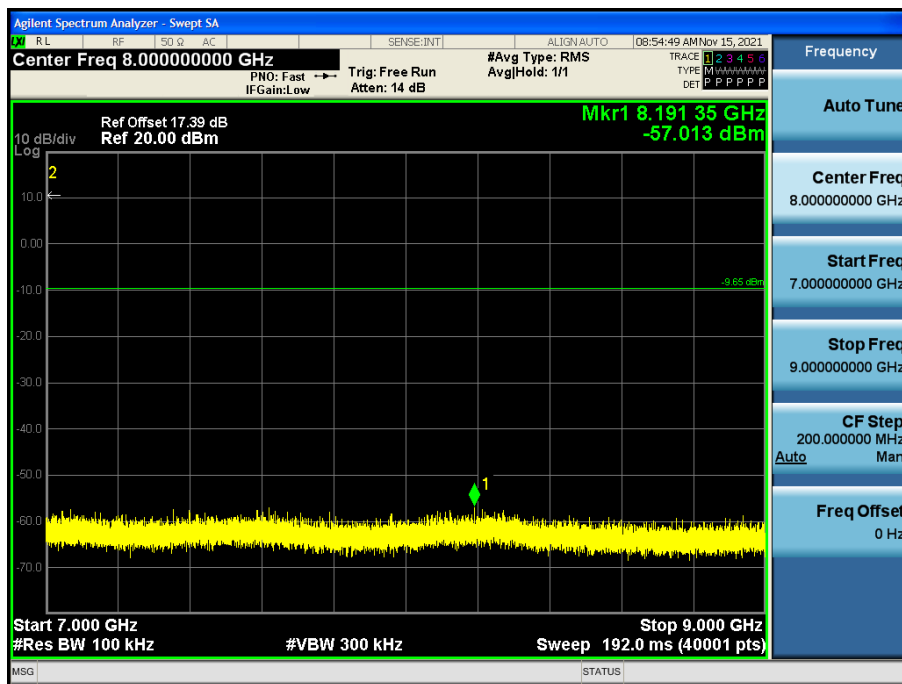
Test Plots (8DPSK)- 5 GHz - 7 GHz

Spurious Emission (CH.78)



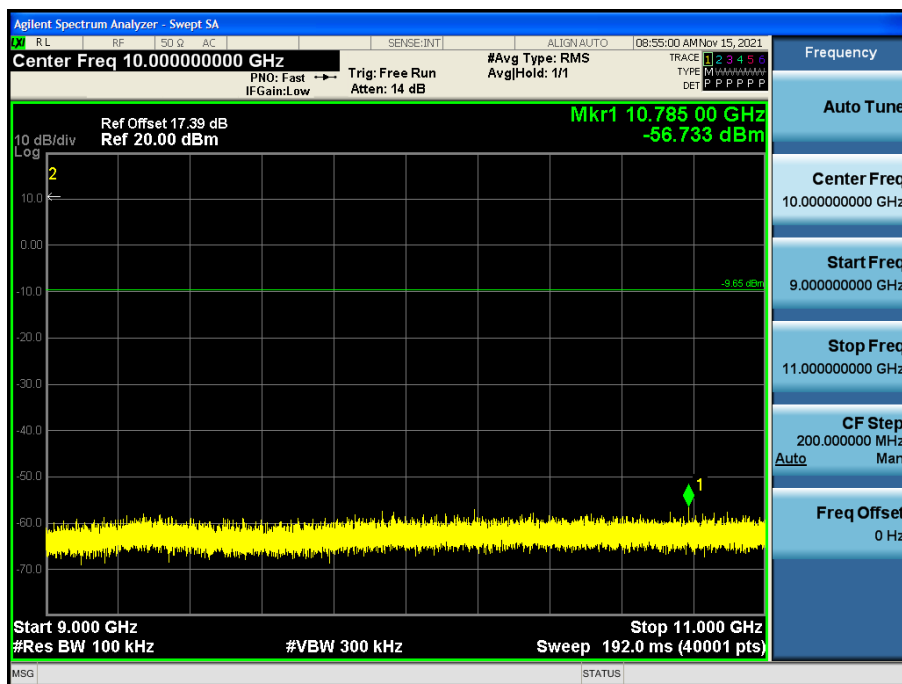
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.78)



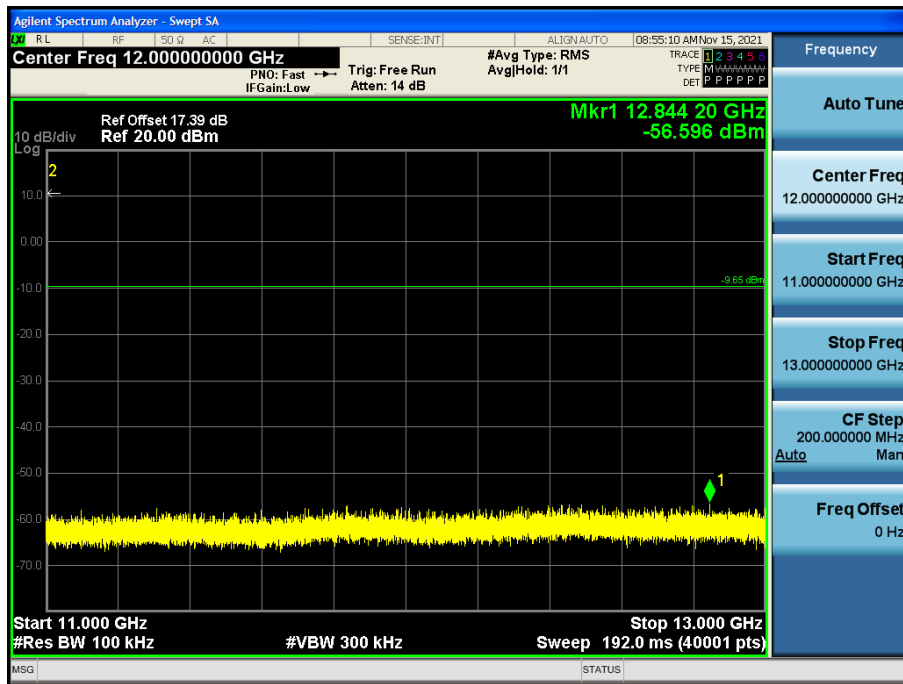
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.78)



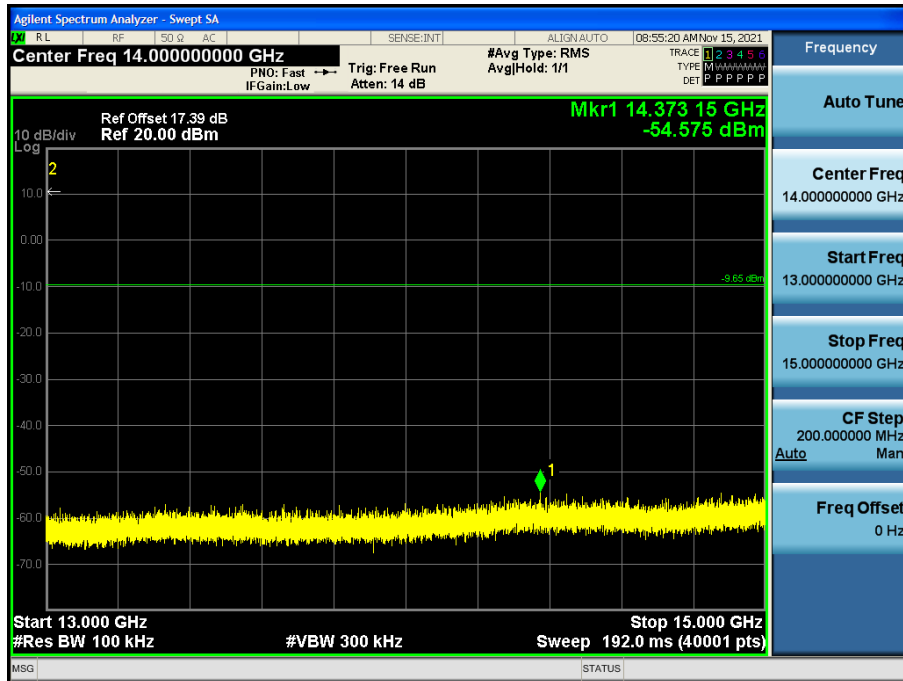
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.78)



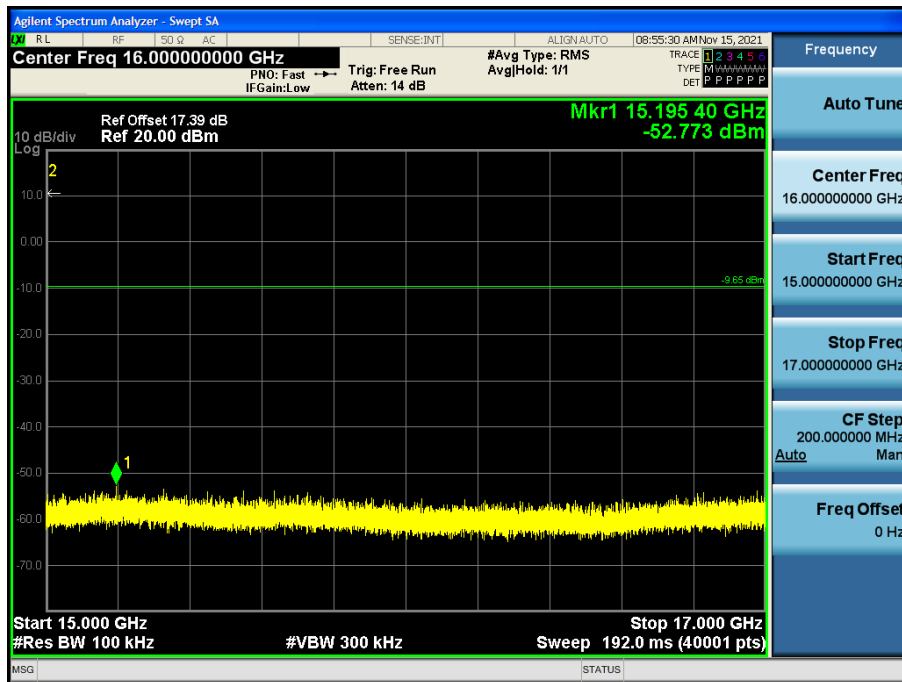
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.78)



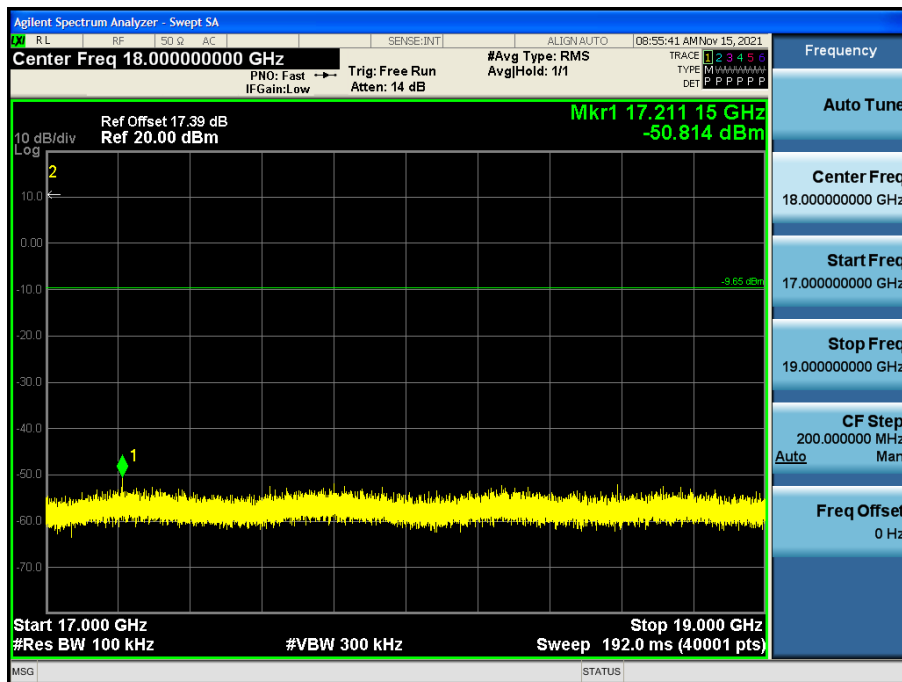
Test Plots(8DPSK)- 15 GHz - 17 GHz

Spurious Emission (CH.78)



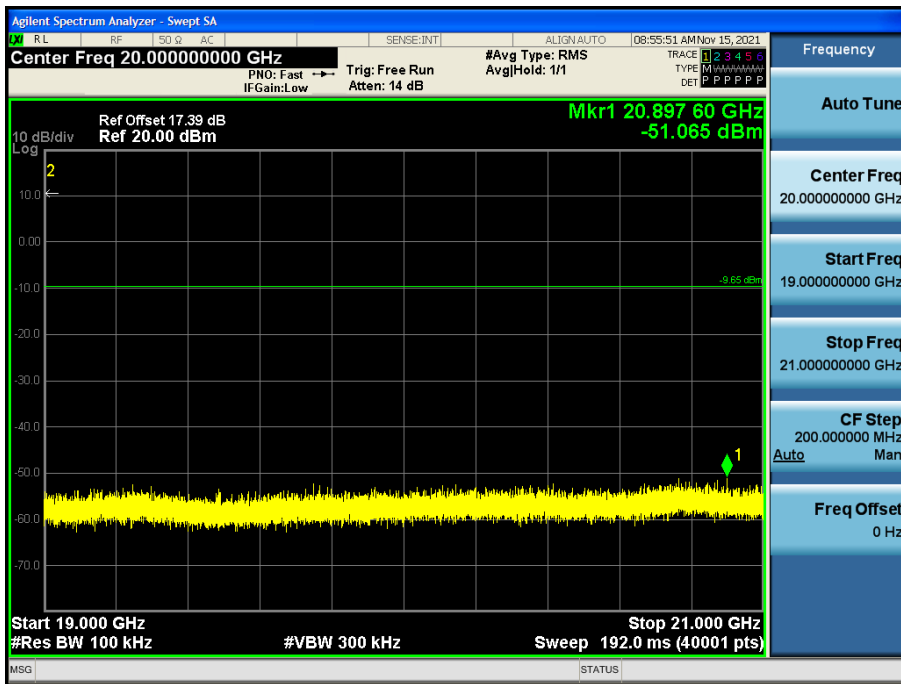
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.78)



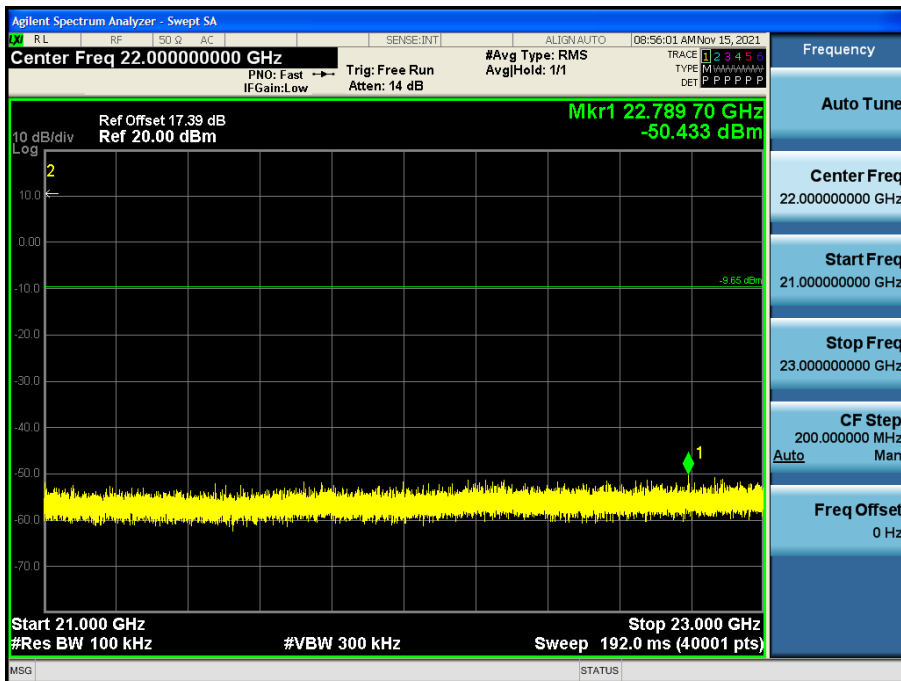
Test Plots (8DPSK)- 19 GHz - 21 GHz

Spurious Emission (CH.78)



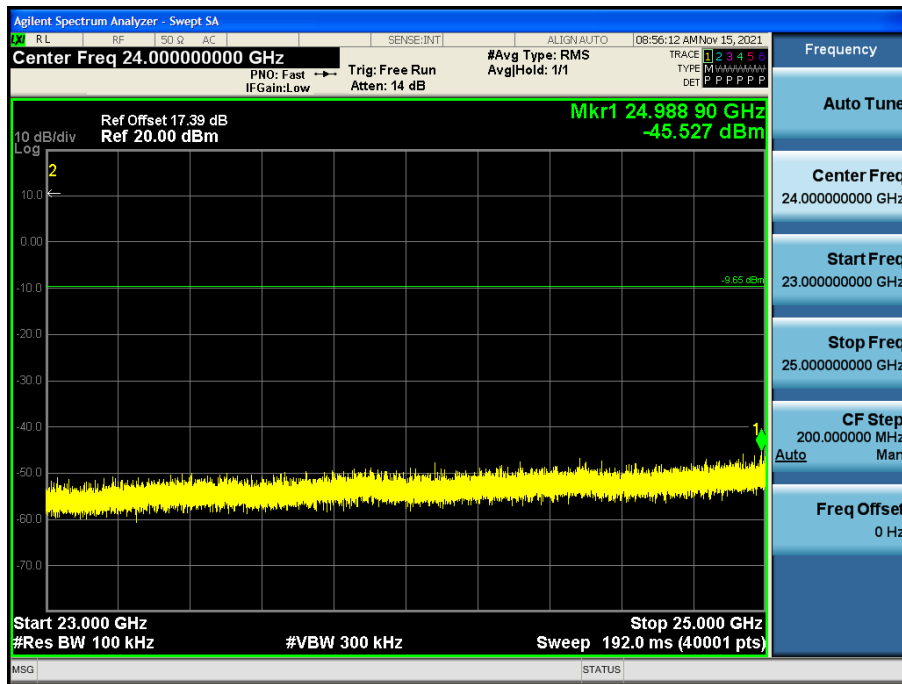
Test Plots (8DPSK)- 21 GHz - 23 GHz

Spurious Emission (CH.78)



Test Plots (8DPSK)- 23 GHz - 25 GHz

Spurious Emission (CH.78)



10.6.2 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	A.F+C.L+D.F	POL	Total	Limit	Margin
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBµV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBµV]	[dB/m]	[H/V]	[dBµV/m]	[dBµV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
2. Radiated test is performed with hopping off.

Frequency Range : Above 1 GHz

[Ant.1]

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	40.99	5.14	V	0.00	46.13	73.98	27.85	PK
4804	40.99	5.14	V	-24.73	21.40	53.98	32.58	AV
7206	37.85	12.89	V	0.00	50.74	73.98	23.24	PK
7206	37.85	12.89	V	-24.73	26.01	53.98	27.97	AV
4804	41.05	5.14	H	0.00	46.19	73.98	27.79	PK
4804	41.05	5.14	H	-24.73	21.46	53.98	32.52	AV
7206	38.42	12.89	H	0.00	51.31	73.98	22.67	PK
7206	38.42	12.89	H	-24.73	26.58	53.98	27.40	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	40.05	5.46	V	0.00	45.51	73.98	28.47	PK
4882	40.05	5.46	V	-24.73	20.78	53.98	33.20	AV
7323	38.04	12.94	V	0.00	50.98	73.98	23.00	PK
7323	38.04	12.94	V	-24.73	26.25	53.98	27.73	AV
4882	41.19	5.46	H	0.00	46.65	73.98	27.33	PK
4882	41.19	5.46	H	-24.73	21.92	53.98	32.06	AV
7323	38.73	12.94	H	0.00	51.67	73.98	22.31	PK
7323	38.73	12.94	H	-24.73	26.94	53.98	27.04	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	40.55	6.25	V	0.00	46.80	73.98	27.18	PK
4960	40.55	6.25	V	-24.73	22.07	53.98	31.91	AV
7440	37.19	12.61	V	0.00	49.80	73.98	24.18	PK
7440	37.19	12.61	V	-24.73	25.07	53.98	28.91	AV
4960	41.28	6.25	H	0.00	47.53	73.98	26.45	PK
4960	41.28	6.25	H	-24.73	22.80	53.98	31.18	AV
7440	38.86	12.61	H	0.00	51.47	73.98	22.51	PK
7440	38.86	12.61	H	-24.73	26.74	53.98	27.24	AV

Operation Mode: CH Low($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4804	40.82	5.14	V	0.00	45.96	73.98	28.02	PK
4804	40.82	5.14	V	-24.73	21.23	53.98	32.75	AV
7206	37.07	12.89	V	0.00	49.96	73.98	24.02	PK
7206	37.07	12.89	V	-24.73	25.23	53.98	28.75	AV
4804	41.03	5.14	H	0.00	46.17	73.98	27.81	PK
4804	41.03	5.14	H	-24.73	21.44	53.98	32.54	AV
7206	37.61	12.89	H	0.00	50.50	73.98	23.48	PK
7206	37.61	12.89	H	-24.73	25.77	53.98	28.21	AV

Operation Mode: CH Mid($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4882	39.71	5.46	V	0.00	45.17	73.98	28.81	PK
4882	39.71	5.46	V	-24.73	20.44	53.98	33.54	AV
7323	37.65	12.94	V	0.00	50.59	73.98	23.39	PK
7323	37.65	12.94	V	-24.73	25.86	53.98	28.12	AV
4882	40.66	5.46	H	0.00	46.12	73.98	27.86	PK
4882	40.66	5.46	H	-24.73	21.39	53.98	32.59	AV
7323	38.43	12.94	H	0.00	51.37	73.98	22.61	PK
7323	38.43	12.94	H	-24.73	26.64	53.98	27.34	AV

Operation Mode: CH High($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4960	41.12	6.25	V	0.00	47.37	73.98	26.61	PK
4960	41.12	6.25	V	-24.73	22.64	53.98	31.34	AV
7440	37.91	12.61	V	0.00	50.52	73.98	23.46	PK
7440	37.91	12.61	V	-24.73	25.79	53.98	28.19	AV
4960	41.30	6.25	H	0.00	47.55	73.98	26.43	PK
4960	41.30	6.25	H	-24.73	22.82	53.98	31.16	AV
7440	38.52	12.61	H	0.00	51.13	73.98	22.85	PK
7440	38.52	12.61	H	-24.73	26.40	53.98	27.58	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	37.58	5.14	V	0.00	42.72	73.98	31.26	PK
4804	37.58	5.14	V	-24.73	17.99	53.98	35.99	AV
7206	38.10	12.89	V	0.00	50.99	73.98	22.99	PK
7206	38.10	12.89	V	-24.73	26.26	53.98	27.72	AV
4804	37.81	5.14	H	0.00	42.95	73.98	31.03	PK
4804	37.81	5.14	H	-24.73	18.22	53.98	35.76	AV
7206	38.54	12.89	H	0.00	51.43	73.98	22.55	PK
7206	38.54	12.89	H	-24.73	26.70	53.98	27.28	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	40.15	5.46	V	0.00	45.61	73.98	28.37	PK
4882	40.15	5.46	V	-24.73	20.88	53.98	33.10	AV
7323	37.82	12.94	V	0.00	50.76	73.98	23.22	PK
7323	37.82	12.94	V	-24.73	26.03	53.98	27.95	AV
4882	41.27	5.46	H	0.00	46.73	73.98	27.25	PK
4882	41.27	5.46	H	-24.73	22.00	53.98	31.98	AV
7323	39.06	12.94	H	0.00	52.00	73.98	21.98	PK
7323	39.06	12.94	H	-24.73	27.27	53.98	26.71	AV

Operation Mode: CH High(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	40.66	6.25	V	0.00	46.91	73.98	27.07	PK
4960	40.66	6.25	V	-24.73	22.18	53.98	31.80	AV
7440	37.42	12.61	V	0.00	50.03	73.98	23.95	PK
7440	37.42	12.61	V	-24.73	25.30	53.98	28.68	AV
4960	41.21	6.25	H	0.00	47.46	73.98	26.52	PK
4960	41.21	6.25	H	-24.73	22.73	53.98	31.25	AV
7440	38.68	12.61	H	0.00	51.29	73.98	22.69	PK
7440	38.68	12.61	H	-24.73	26.56	53.98	27.42	AV

[Ant.2]

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4804	41.39	5.14	V	0.00	46.53	73.98	27.45	PK
4804	41.39	5.14	V	-24.73	21.80	53.98	32.18	AV
7206	38.42	12.89	V	0.00	51.31	73.98	22.67	PK
7206	38.42	12.89	V	-24.73	26.58	53.98	27.40	AV
4804	41.52	5.14	H	0.00	46.66	73.98	27.32	PK
4804	41.52	5.14	H	-24.73	21.93	53.98	32.05	AV
7206	38.53	12.89	H	0.00	51.42	73.98	22.56	PK
7206	38.53	12.89	H	-24.73	26.69	53.98	27.29	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4882	41.16	5.46	V	0.00	46.62	73.98	27.36	PK
4882	41.16	5.46	V	-24.73	21.89	53.98	32.09	AV
7323	38.46	12.94	V	0.00	51.40	73.98	22.58	PK
7323	38.46	12.94	V	-24.73	26.67	53.98	27.31	AV
4882	41.38	5.46	H	0.00	46.84	73.98	27.14	PK
4882	41.38	5.46	H	-24.73	22.11	53.98	31.87	AV
7323	38.59	12.94	H	0.00	51.53	73.98	22.45	PK
7323	38.59	12.94	H	-24.73	26.80	53.98	27.18	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	41.39	6.25	V	0.00	47.64	73.98	26.34	PK
4960	41.39	6.25	V	-24.73	22.91	53.98	31.07	AV
7440	38.43	12.61	V	0.00	51.04	73.98	22.94	PK
7440	38.43	12.61	V	-24.73	26.31	53.98	27.67	AV
4960	41.68	6.25	H	0.00	47.93	73.98	26.05	PK
4960	41.68	6.25	H	-24.73	23.20	53.98	30.78	AV
7440	38.66	12.61	H	0.00	51.27	73.98	22.71	PK
7440	38.66	12.61	H	-24.73	26.54	53.98	27.44	AV

Operation Mode: CH Low($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4804	41.46	5.14	V	0.00	46.60	73.98	27.38	PK
4804	41.46	5.14	V	-24.73	21.87	53.98	32.11	AV
7206	38.17	12.89	V	0.00	51.06	73.98	22.92	PK
7206	38.17	12.89	V	-24.73	26.33	53.98	27.65	AV
4804	41.73	5.14	H	0.00	46.87	73.98	27.11	PK
4804	41.73	5.14	H	-24.73	22.14	53.98	31.84	AV
7206	38.24	12.89	H	0.00	51.13	73.98	22.85	PK
7206	38.24	12.89	H	-24.73	26.40	53.98	27.58	AV

Operation Mode: CH Mid($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4882	41.08	5.46	V	0.00	46.54	73.98	27.44	PK
4882	41.08	5.46	V	-24.73	21.81	53.98	32.17	AV
7323	38.39	12.94	V	0.00	51.33	73.98	22.65	PK
7323	38.39	12.94	V	-24.73	26.60	53.98	27.38	AV
4882	41.26	5.46	H	0.00	46.72	73.98	27.26	PK
4882	41.26	5.46	H	-24.73	21.99	53.98	31.99	AV
7323	38.53	12.94	H	0.00	51.47	73.98	22.51	PK
7323	38.53	12.94	H	-24.73	26.74	53.98	27.24	AV

Operation Mode: CH High($\pi/4$ DQPSK)

Frequency [MHz]	Measured Value [dB μ V]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
4960	41.42	6.25	V	0.00	47.67	73.98	26.31	PK
4960	41.42	6.25	V	-24.73	22.94	53.98	31.04	AV
7440	38.52	12.61	V	0.00	51.13	73.98	22.85	PK
7440	38.52	12.61	V	-24.73	26.40	53.98	27.58	AV
4960	41.95	6.25	H	0.00	48.20	73.98	25.78	PK
4960	41.95	6.25	H	-24.73	23.47	53.98	30.51	AV
7440	38.61	12.61	H	0.00	51.22	73.98	22.76	PK
7440	38.61	12.61	H	-24.73	26.49	53.98	27.49	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4804	41.28	5.14	V	0.00	46.42	73.98	27.56	PK
4804	41.28	5.14	V	-24.73	21.69	53.98	32.29	AV
7206	38.21	12.89	V	0.00	51.10	73.98	22.88	PK
7206	38.21	12.89	V	-24.73	26.37	53.98	27.61	AV
4804	41.63	5.14	H	0.00	46.77	73.98	27.21	PK
4804	41.63	5.14	H	-24.73	22.04	53.98	31.94	AV
7206	38.30	12.89	H	0.00	51.19	73.98	22.79	PK
7206	38.30	12.89	H	-24.73	26.46	53.98	27.52	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4882	41.51	5.46	V	0.00	46.97	73.98	27.01	PK
4882	41.51	5.46	V	-24.73	22.24	53.98	31.74	AV
7323	38.66	12.94	V	0.00	51.60	73.98	22.38	PK
7323	38.66	12.94	V	-24.73	26.87	53.98	27.11	AV
4882	41.94	5.46	H	0.00	47.40	73.98	26.58	PK
4882	41.94	5.46	H	-24.73	22.67	53.98	31.31	AV
7323	38.82	12.94	H	0.00	51.76	73.98	22.22	PK
7323	38.82	12.94	H	-24.73	27.03	53.98	26.95	AV

Operation Mode: CH High(8DPSK)

Frequency [MHz]	Measured Value [dBμV]	A.F+C.L-A.G+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4960	41.18	6.25	V	0.00	47.43	73.98	26.55	PK
4960	41.18	6.25	V	-24.73	22.70	53.98	31.28	AV
7440	38.38	12.61	V	0.00	50.99	73.98	22.99	PK
7440	38.38	12.61	V	-24.73	26.26	53.98	27.72	AV
4960	41.32	6.25	H	0.00	47.57	73.98	26.41	PK
4960	41.32	6.25	H	-24.73	22.84	53.98	31.14	AV
7440	38.68	12.61	H	0.00	51.29	73.98	22.69	PK
7440	38.68	12.61	H	-24.73	26.56	53.98	27.42	AV

[DBS Mode]

WLAN/BT Ant : 5 GHz 802.11n(HT20) ch. 36 MCS0 & Bluetooth ANT1 Ch. 39 (GFSK) 1 Mbps

Frequency	Measured Value	A.F+C.L-A.G+D.F	Pol.	Duty Cycle Correction	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB/m]	[H/V]	[dB]	[dBμV/m]	[dBμV/m]	[dB]	
4882	41.05	5.46	V	0.00	46.51	73.98	27.47	PK
4882	41.05	5.46	V	-24.73	21.78	53.98	32.20	AV
7323	38.19	12.94	V	0.00	51.13	73.98	22.85	PK
7323	38.19	12.94	V	-24.73	26.40	53.98	27.58	AV
4882	41.21	5.46	H	0.00	46.67	73.98	27.31	PK
4882	41.21	5.46	H	-24.73	21.94	53.98	32.04	AV
7323	38.73	12.94	H	0.00	51.67	73.98	22.31	PK
7323	38.73	12.94	H	-24.73	26.94	53.98	27.04	AV

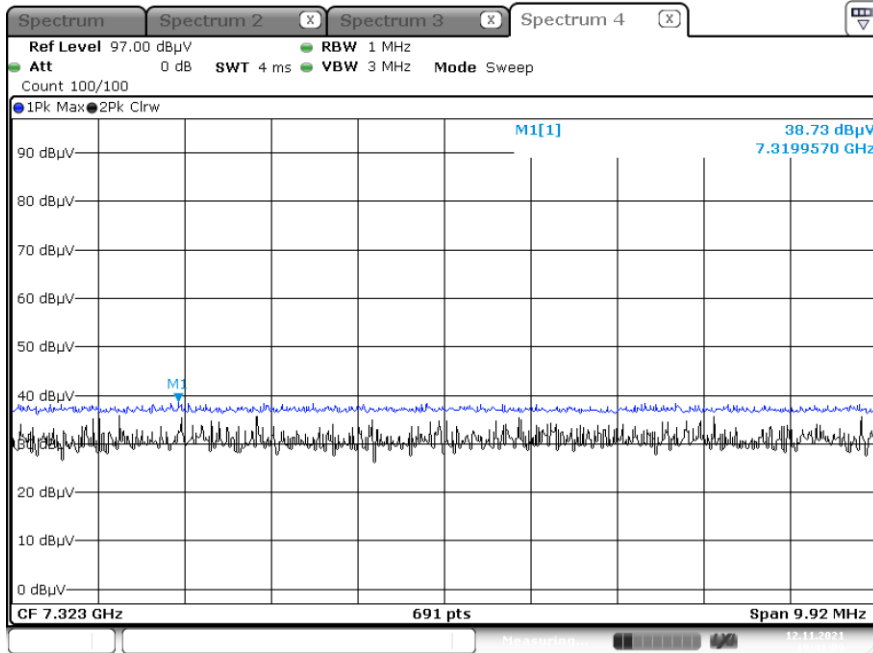
Note :

1. Used duty cycle correction factor.
2. WLAN DBS Data refer to UNII Test Report.

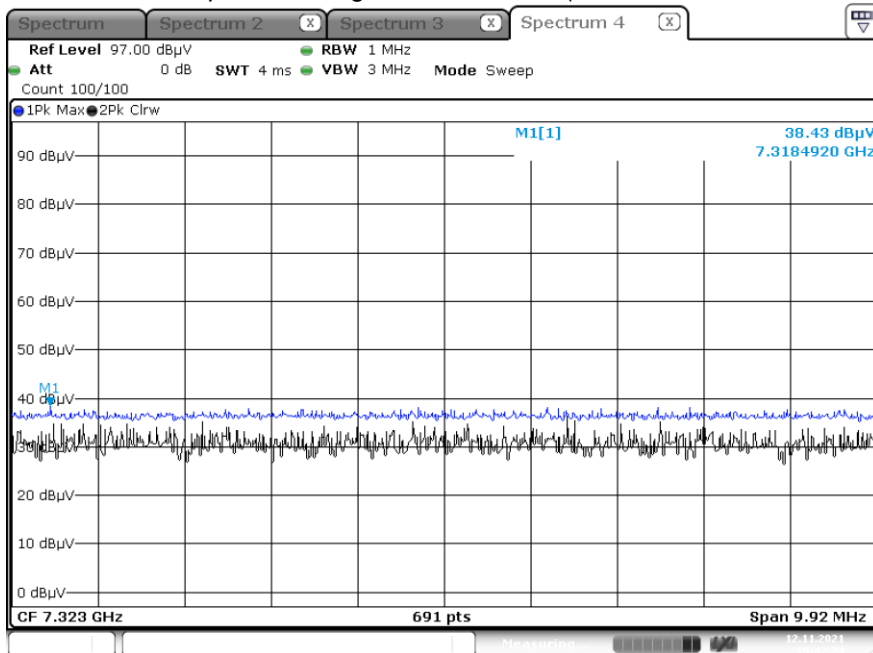
RESULT PLOTS

[Ant.1]

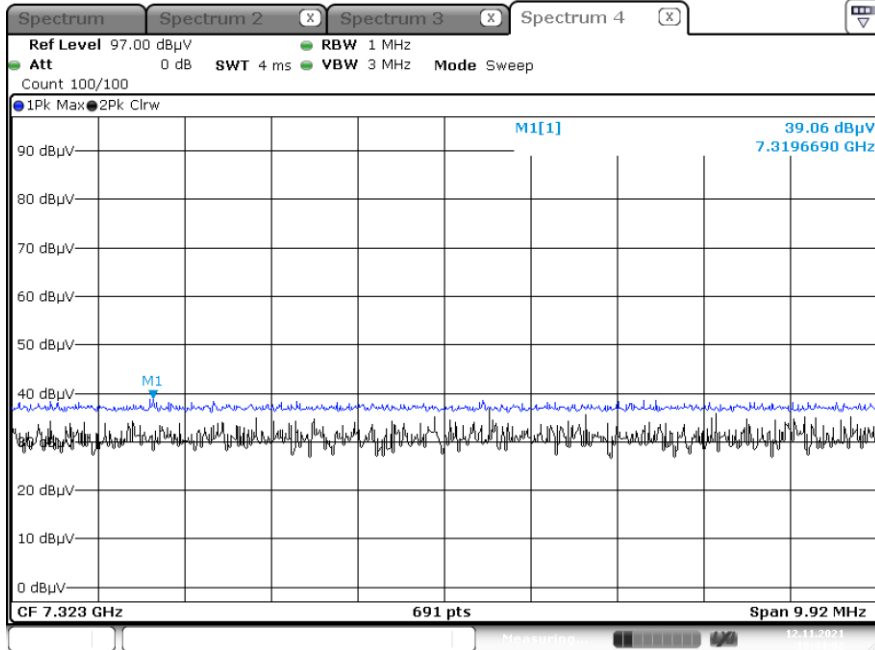
Radiated Spurious Emissions plot – Average & Peak Result (GFSK, Ch. 39 3rd Harmonic, Y-H)



Radiated Spurious Emissions plot – Average & Peak Result ($\pi/4$ DQPSK, Ch. 39 3rd Harmonic, Y-H)

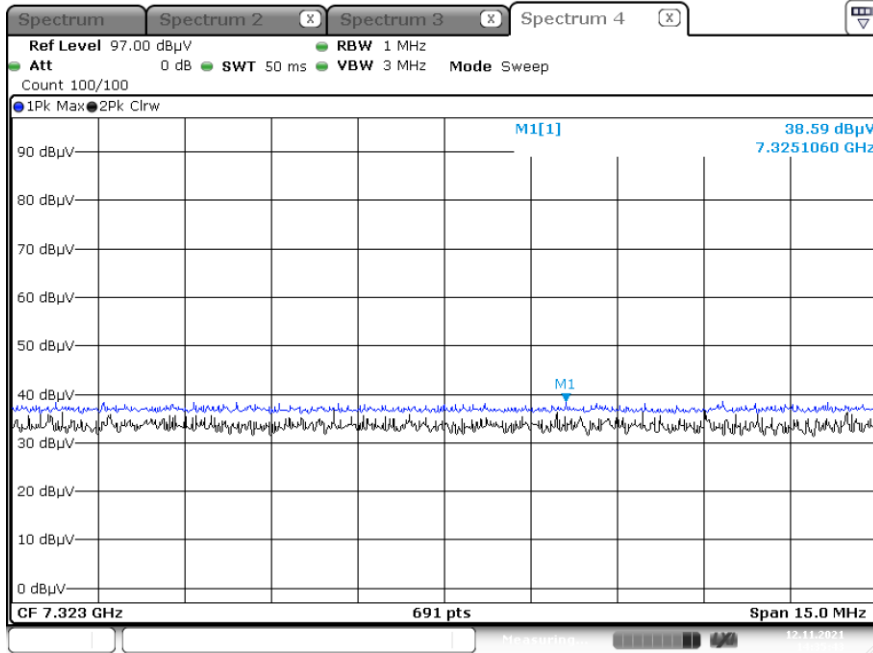


Radiated Spurious Emissions plot – Average & Peak Result (8DPSK, Ch. 39 3rd Harmonic, Y-H)

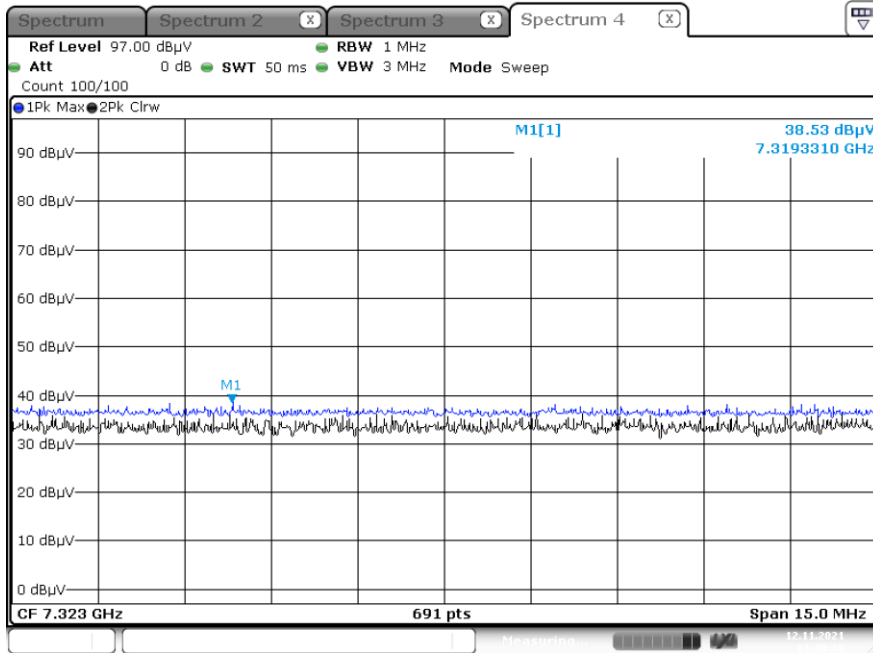


[Ant.2]

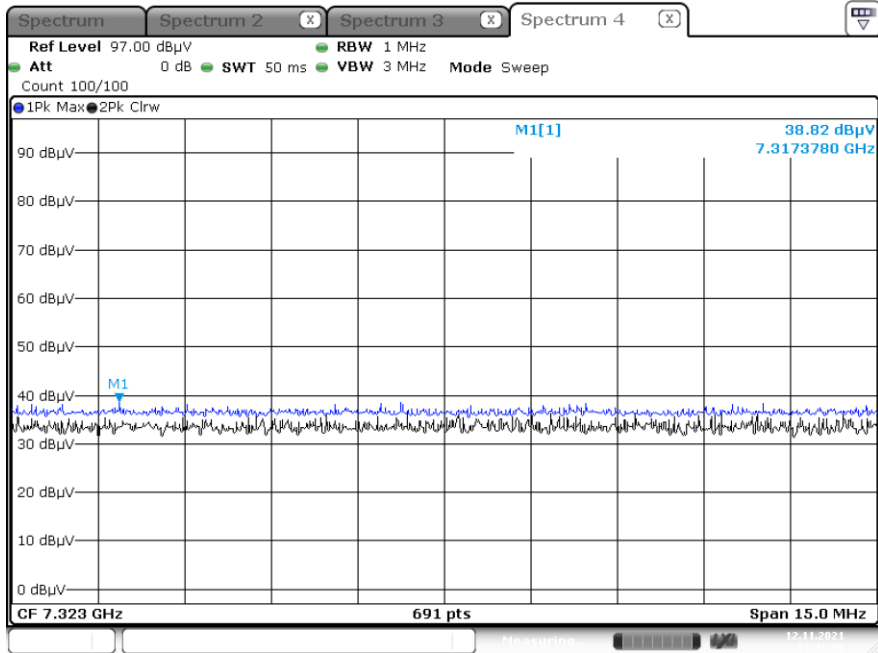
Radiated Spurious Emissions plot – Average & Peak Result (GFSK, Ch. 39 3rd Harmonic, Y-H)



Radiated Spurious Emissions plot – Average & Peak Result ($\pi/4$ DQPSK, Ch. 39 3rd Harmonic, Y-H)



Radiated Spurious Emissions plot – Average & Peak Result (8DPSK, Ch. 39 3rd Harmonic, Y-H)



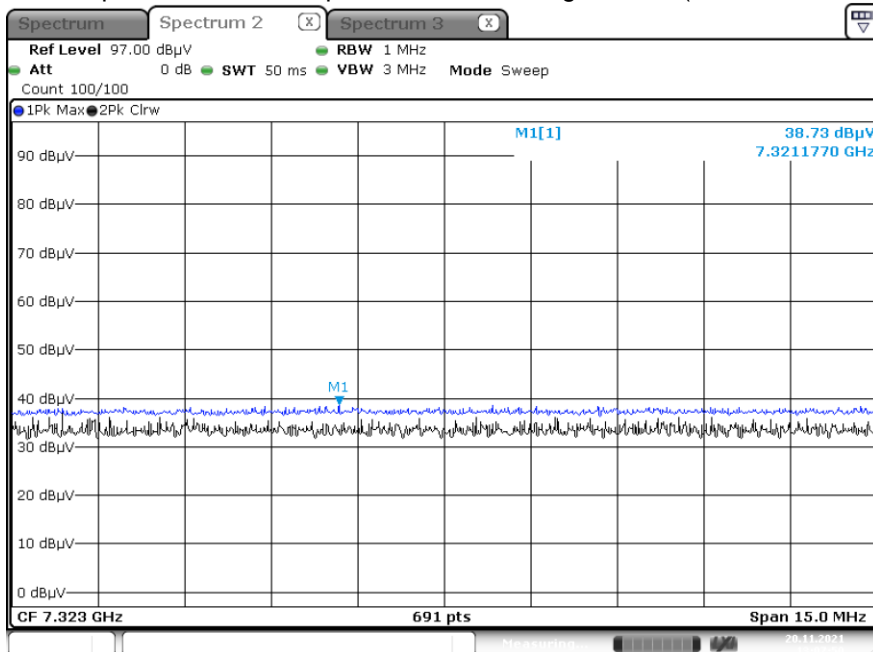
Note:

Plot of worst case are only reported.

RESULT PLOTS(DBS)

WLAN/BT Ant : 5 GHz 802.11n(HT20) ch. 36 MCS0 & Bluetooth ANT1 Ch. 39 (GFSK) 1 Mbps

Radiated Spurious Emissions plot – Peak & Average Result (3rd Harmonic, Z-H)



Note:

Plot of worst case are only reported.

10.6.3 RADIATED RESTRICTED BAND EDGES

[Ant.1]

Operation Mode	Normal(GFSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	51.51	2.99	H	0	54.50	73.98	19.48	PK
2390.0	51.51	2.99	H	-24.73	29.77	53.98	24.21	AV
2390.0	50.92	2.99	V	0	53.91	73.98	20.07	PK
2390.0	50.92	2.99	V	-24.73	29.18	53.98	24.80	AV
2483.5	59.47	4.20	H	0	63.67	73.98	10.31	PK
2483.5	59.47	4.20	H	-24.73	38.94	53.98	15.04	AV
2483.5	58.33	4.20	V	0	62.53	73.98	11.45	PK
2483.5	58.33	4.20	V	-24.73	37.80	53.98	16.18	AV

Operation Mode	EDR($\pi/4$ DQPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	51.21	2.99	H	0	54.20	73.98	19.78	PK
2390.0	51.21	2.99	H	-24.73	29.47	53.98	24.51	AV
2390.0	50.05	2.99	V	0	53.04	73.98	20.94	PK
2390.0	50.05	2.99	V	-24.73	28.31	53.98	25.67	AV
2483.5	59.88	4.20	H	0	64.08	73.98	9.90	PK
2483.5	59.88	4.20	H	-24.73	39.35	53.98	14.63	AV
2483.5	58.86	4.20	V	0	63.06	73.98	10.92	PK
2483.5	58.86	4.20	V	-24.73	38.33	53.98	15.65	AV

Operation Mode EDR(8DPSK)
 Operating Frequency 2402 MHz, 2480 MHz
 Channel No CH 0, CH 78

Frequency [MHz]	Measured Level [dB μ V]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
2390.0	51.24	2.99	H	0	54.23	73.98	19.75	PK
2390.0	51.24	2.99	H	-24.73	29.50	53.98	24.48	AV
2390.0	50.22	2.99	V	0	53.21	73.98	20.77	PK
2390.0	50.22	2.99	V	-24.73	28.48	53.98	25.50	AV
2483.5	59.69	4.20	H	0	63.89	73.98	10.09	PK
2483.5	59.69	4.20	H	-24.73	39.16	53.98	14.82	AV
2483.5	58.64	4.20	V	0	62.84	73.98	11.14	PK
2483.5	58.64	4.20	V	-24.73	38.11	53.98	15.87	AV

[Ant.2]

Operation Mode	Normal(GFSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	51.31	2.99	H	0	54.30	73.98	19.68	PK
2390.0	51.31	2.99	H	-24.73	29.57	53.98	24.41	AV
2390.0	50.68	2.99	V	0	53.67	73.98	20.31	PK
2390.0	50.68	2.99	V	-24.73	28.94	53.98	25.04	AV
2483.5	62.63	4.20	H	0	66.83	73.98	7.15	PK
2483.5	62.63	4.20	H	-24.73	42.10	53.98	11.88	AV
2483.5	61.24	4.20	V	0	65.44	73.98	8.54	PK
2483.5	61.24	4.20	V	-24.73	40.71	53.98	13.27	AV

Operation Mode	EDR($\pi/4$ DQPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	50.91	2.99	H	0	53.90	73.98	20.08	PK
2390.0	50.91	2.99	H	-24.73	29.17	53.98	24.81	AV
2390.0	50.20	2.99	V	0	53.19	73.98	20.79	PK
2390.0	50.20	2.99	V	-24.73	28.46	53.98	25.52	AV
2483.5	62.79	4.20	H	0	66.99	73.98	6.99	PK
2483.5	62.79	4.20	H	-24.73	42.26	53.98	11.72	AV
2483.5	61.48	4.20	V	0	65.68	73.98	8.30	PK
2483.5	61.48	4.20	V	-24.73	40.95	53.98	13.03	AV

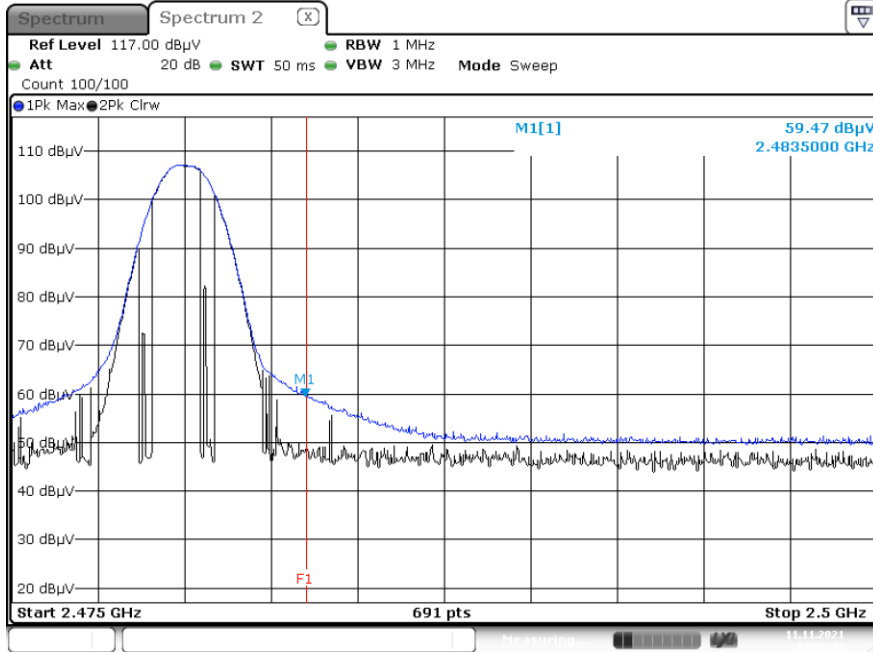
Operation Mode EDR(8DPSK)
 Operating Frequency 2402 MHz, 2480 MHz
 Channel No CH 0, CH 78

Frequency [MHz]	Measured Level [dBμV]	A.F+C.L+D.F [dB/m]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
2390.0	50.61	2.99	H	0	53.60	73.98	20.38	PK
2390.0	50.61	2.99	H	-24.73	28.87	53.98	25.11	AV
2390.0	50.57	2.99	V	0	53.56	73.98	20.42	PK
2390.0	50.57	2.99	V	-24.73	28.83	53.98	25.15	AV
2483.5	62.78	4.20	H	0	66.98	73.98	7.00	PK
2483.5	62.78	4.20	H	-24.73	42.25	53.98	11.73	AV
2483.5	61.45	4.20	V	0	65.65	73.98	8.33	PK
2483.5	61.45	4.20	V	-24.73	40.92	53.98	13.06	AV

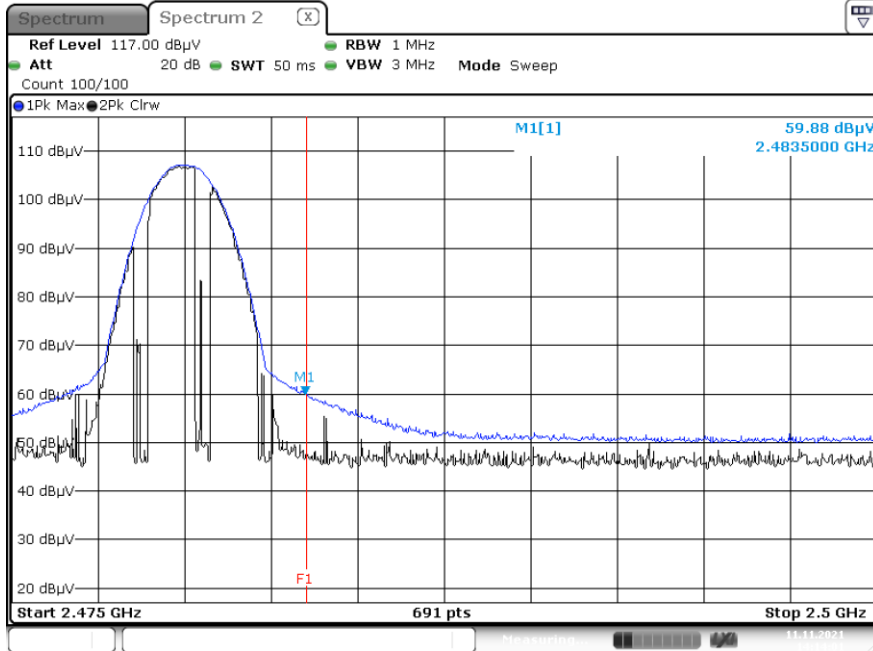
RESULT PLOTS

[Ant.1]

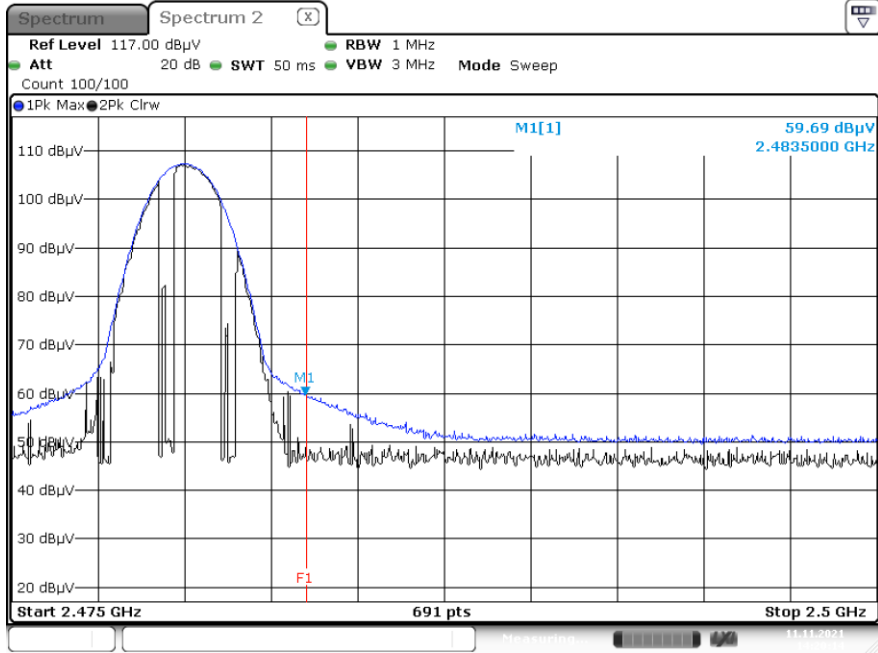
Radiated Restricted Band Edges plot – Average & Peak Result (GFSK, Ch.78, Z-H)



Radiated Restricted Band Edges plot – Average & Peak Result ($\pi/4$ DQPSK, Ch.78, Z-H)

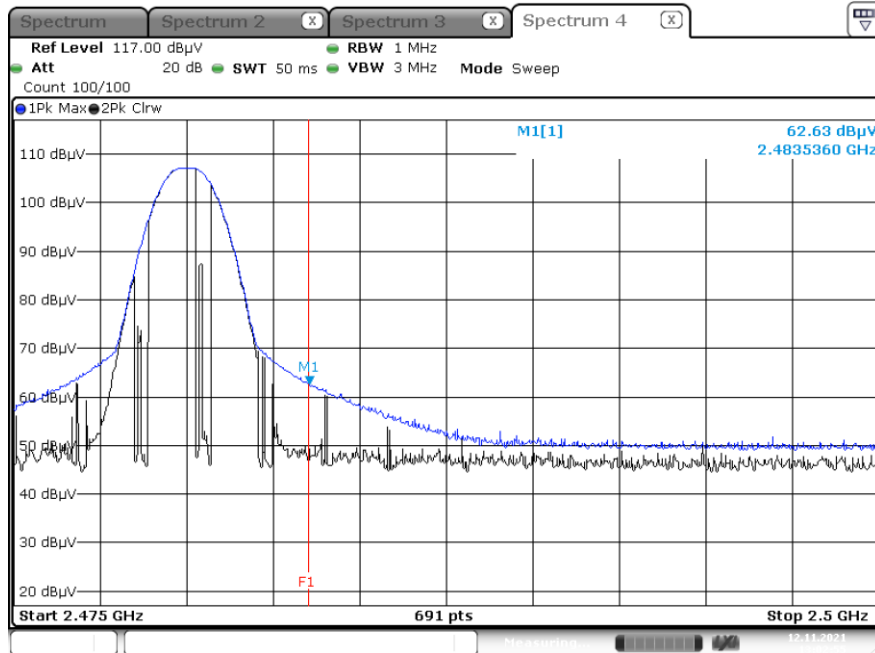


Radiated Restricted Band Edges plot – Average & Peak Result (8DPSK, Ch.78, Z-H)

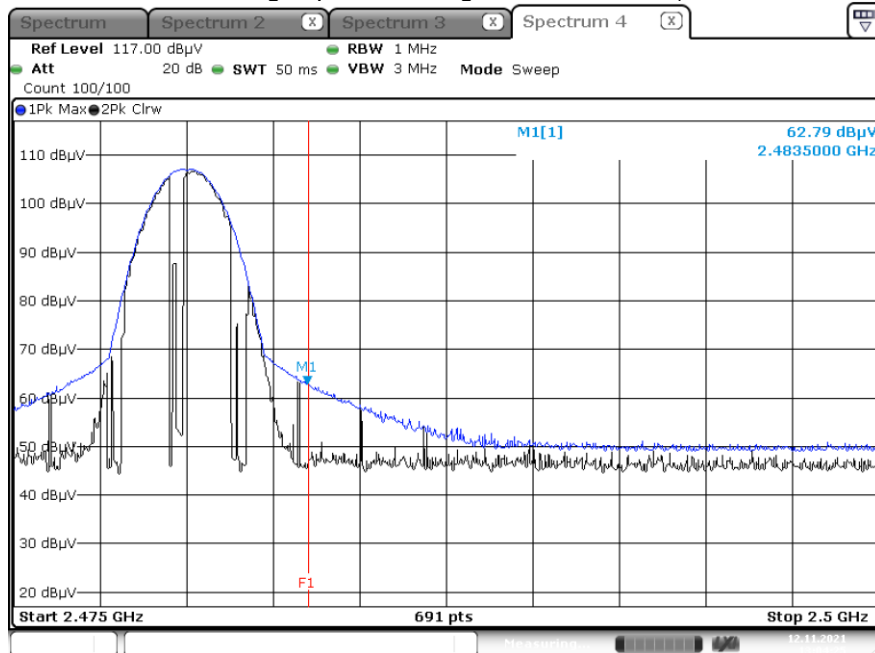


[Ant.2]

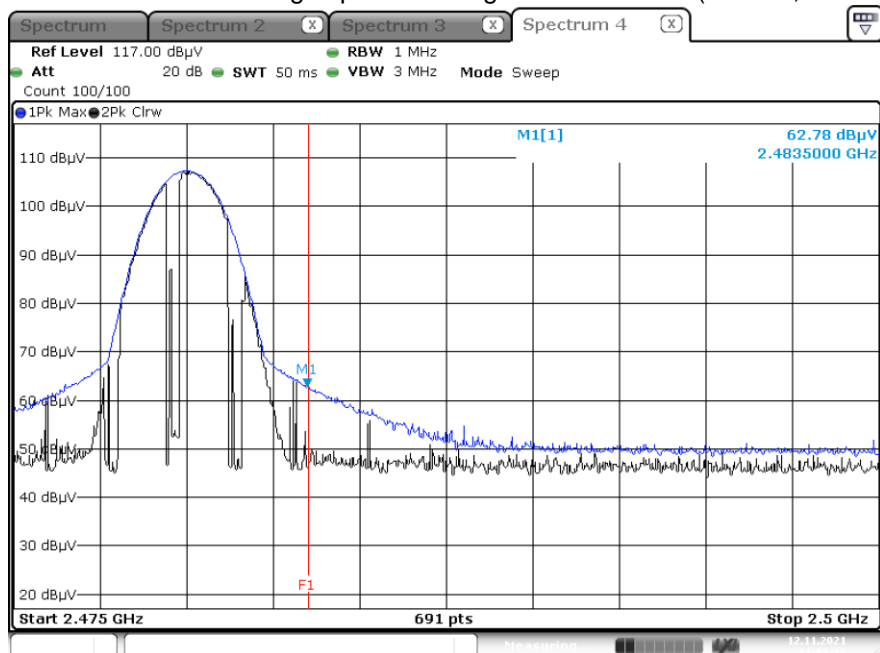
Radiated Restricted Band Edges plot – Average & Peak Result (GFSK, Ch.78, Z-H)



Radiated Restricted Band Edges plot – Average & Peak Result ($\pi/4$ DQPSK, Ch.78, Z-H)



Radiated Restricted Band Edges plot – Average & Peak Result (8DPSK, Ch.78, Z-H)



Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

BT MODE_L1

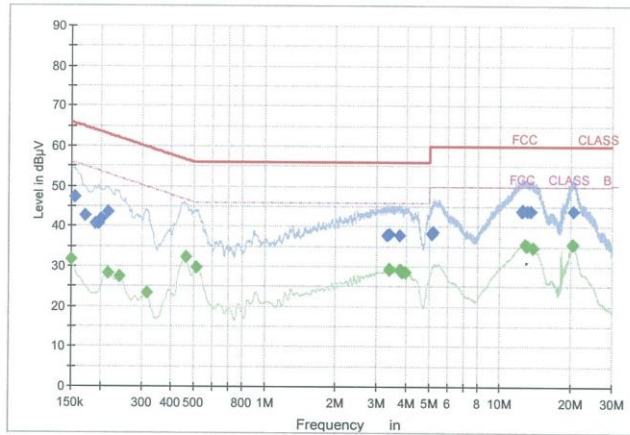
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Test Report

Common Information

EUT : SM-X706B
 Manufacturer : SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions : BT MODE_L1

Full Spectrum



Preview Result Preview Result FCC CLASS
 FCC CLASS B_ Final_Result QPK Final_Result CAV

Final Result QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	47.17	65.75	18.59	9.000	L1	OFF	9.6
0.1725	42.64	64.84	22.20	9.000	L1	OFF	9.6
0.1905	40.55	64.02	23.47	9.000	L1	OFF	9.6
0.1973	40.54	63.73	23.19	9.000	L1	OFF	9.6
0.2018	41.69	63.54	21.85	9.000	L1	OFF	9.6
0.2153	43.70	63.00	19.30	9.000	L1	OFF	9.6
3.3170	37.90	56.00	18.10	9.000	L1	OFF	9.8
3.3868	38.10	56.00	17.90	9.000	L1	OFF	9.8
3.7243	37.69	56.00	18.31	9.000	L1	OFF	9.8
5.1485	38.21	60.00	21.79	9.000	L1	OFF	9.9
5.1530	38.37	60.00	21.63	9.000	L1	OFF	9.9
5.1688	38.68	60.00	21.32	9.000	L1	OFF	9.9
12.3463	43.77	60.00	16.23	9.000	L1	OFF	10.1
12.4183	43.94	60.00	16.06	9.000	L1	OFF	10.1
12.4993	44.18	60.00	15.82	9.000	L1	OFF	10.1
13.0708	43.81	60.00	16.19	9.000	L1	OFF	10.2
13.4375	43.76	60.00	16.24	9.000	L1	OFF	10.2
20.3720	43.75	60.00	16.25	9.000	L1	OFF	10.4

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BT MODE_L1

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Final Result CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	31.59	56.00	24.41	9.000	L1	OFF	9.6
0.2153	28.28	53.00	24.72	9.000	L1	OFF	9.6
0.2400	27.31	52.10	24.79	9.000	L1	OFF	9.6
0.3143	23.34	49.86	26.51	9.000	L1	OFF	9.6
0.4605	32.24	46.68	14.45	9.000	L1	OFF	9.6
0.5135	29.75	46.00	16.25	9.000	L1	OFF	9.7
3.3823	29.25	46.00	16.75	9.000	L1	OFF	9.8
3.3913	29.31	46.00	16.69	9.000	L1	OFF	9.8
3.7243	29.07	46.00	16.93	9.000	L1	OFF	9.8
3.7783	29.19	46.00	16.81	9.000	L1	OFF	9.8
3.8278	28.62	46.00	17.38	9.000	L1	OFF	9.8
3.9493	28.47	46.00	17.53	9.000	L1	OFF	9.8
12.7288	35.55	50.00	14.45	9.000	L1	OFF	10.2
12.8570	35.29	50.00	14.71	9.000	L1	OFF	10.2
13.0685	35.21	50.00	14.79	9.000	L1	OFF	10.2
13.7953	34.67	50.00	15.33	9.000	L1	OFF	10.2
20.3045	35.51	50.00	14.49	9.000	L1	OFF	10.4
20.4013	35.52	50.00	14.48	9.000	L1	OFF	10.4

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Conducted Emissions (Line 2)

BT MODE_N

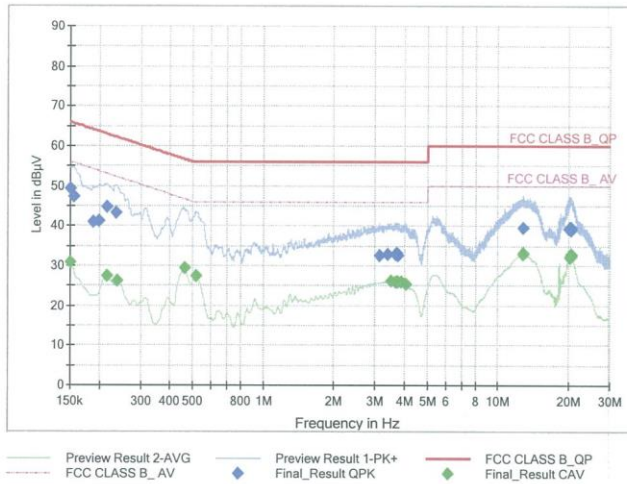
1 / 2

Test Report

Common Information

EUT : SM-X706B
 Manufacturer : SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions : BT MODE_N

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	49.31	66.00	16.69	9.000	N	OFF	9.6
0.1545	47.30	65.75	18.46	9.000	N	OFF	9.6
0.1883	40.93	64.11	23.18	9.000	N	OFF	9.6
0.1995	41.24	63.63	22.39	9.000	N	OFF	9.6
0.2153	44.64	63.00	18.36	9.000	N	OFF	9.6
0.2355	43.36	62.25	18.89	9.000	N	OFF	9.6
3.1415	32.72	56.00	23.28	9.000	N	OFF	9.8
3.3890	32.93	56.00	23.07	9.000	N	OFF	9.8
3.6500	32.81	56.00	23.19	9.000	N	OFF	9.8
3.6883	33.09	56.00	22.91	9.000	N	OFF	9.8
3.7108	33.22	56.00	22.78	9.000	N	OFF	9.8
3.7603	32.74	56.00	23.26	9.000	N	OFF	9.8
12.7828	39.44	60.00	20.56	9.000	N	OFF	10.2
20.0885	39.36	60.00	20.64	9.000	N	OFF	10.5
20.1830	39.41	60.00	20.59	9.000	N	OFF	10.5
20.4395	39.52	60.00	20.48	9.000	N	OFF	10.5
20.5565	38.94	60.00	21.06	9.000	N	OFF	10.5
20.5678	39.07	60.00	20.93	9.000	N	OFF	10.5

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BT MODE_N

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Final Result_CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	30.94	56.00	25.06	9.000	N	OFF	9.6
0.2153	27.30	53.00	25.70	9.000	N	OFF	9.6
0.2378	26.19	52.17	25.99	9.000	N	OFF	9.6
0.4605	29.44	46.68	17.24	9.000	N	OFF	9.6
0.5158	27.42	46.00	18.58	9.000	N	OFF	9.6
3.5128	26.12	46.00	19.88	9.000	N	OFF	9.8
3.6500	25.97	46.00	20.03	9.000	N	OFF	9.8
3.6883	26.04	46.00	19.96	9.000	N	OFF	9.8
3.7243	25.99	46.00	20.01	9.000	N	OFF	9.8
3.8773	25.95	46.00	20.05	9.000	N	OFF	9.8
4.0303	25.32	46.00	20.68	9.000	N	OFF	9.8
12.6883	33.09	50.00	16.91	9.000	N	OFF	10.2
12.7715	32.89	50.00	17.11	9.000	N	OFF	10.2
20.1740	32.16	50.00	17.84	9.000	N	OFF	10.5
20.1830	32.22	50.00	17.78	9.000	N	OFF	10.5
20.4125	32.93	50.00	17.07	9.000	N	OFF	10.5
20.4913	32.71	50.00	17.29	9.000	N	OFF	10.5
20.5678	32.41	50.00	17.59	9.000	N	OFF	10.5

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11. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	08/23/2022	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/17/2022	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	03/15/2022	Annual
Signal Analyzer	N9030A	Agilent	MY49432108	03/09/2022	Annual
Power Meter	N1911A	Agilent	MY45100523	04/08/2022	Annual
Power Sensor	N1921A	Agilent	MY57820067	04/08/2022	Annual
Power Splitter	11667B	Hewlett Packard	10545	02/09/2022	Annual
DC Power Supply	E3632A	HP	MY50360067	02/26/2022	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	07560	06/18/2022	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	08285	06/28/2022	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	03/08/2022	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	N/A	N/A	N/A
Controller	EM1000	Audix	060520	N/A	N/A
Turn Table	N/A	Audix	N/A	N/A	N/A
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM19050002	N/A	N/A
Loop Antenna	1513	Schwarzbeck	1513-333	03/19/2022	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-0895	09/04/2022	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02296	05/19/2022	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Spectrum Analyzer	FSV(10 Hz ~ 40 GHz)	Rohde & Schwarz	101055	05/14/2022	Annual
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	01/06/2022	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	06/24/2022	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/24/2022	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/04/2021	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/23/2022	Annual
HPF(3~18GHz) LNA1(1~18GHz)	+ FMSR-05B	TNM system	F6	01/20/2022	Annual
ATT(10dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/20/2022	Annual
ATT(3dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/20/2022	Annual
LNA1(1~18GHz)	FMSR -05B	TNM system	25540	01/20/2022	Annual
HPF(7~18GHz) LNA2(6~18GHz)	+ FMSR -05B	TNM system	28550	01/20/2022	Annual
Thru(30MHz ~ 18GHz)	FMSR -05B	TNM system	None	01/20/2022	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2111-FC039-P