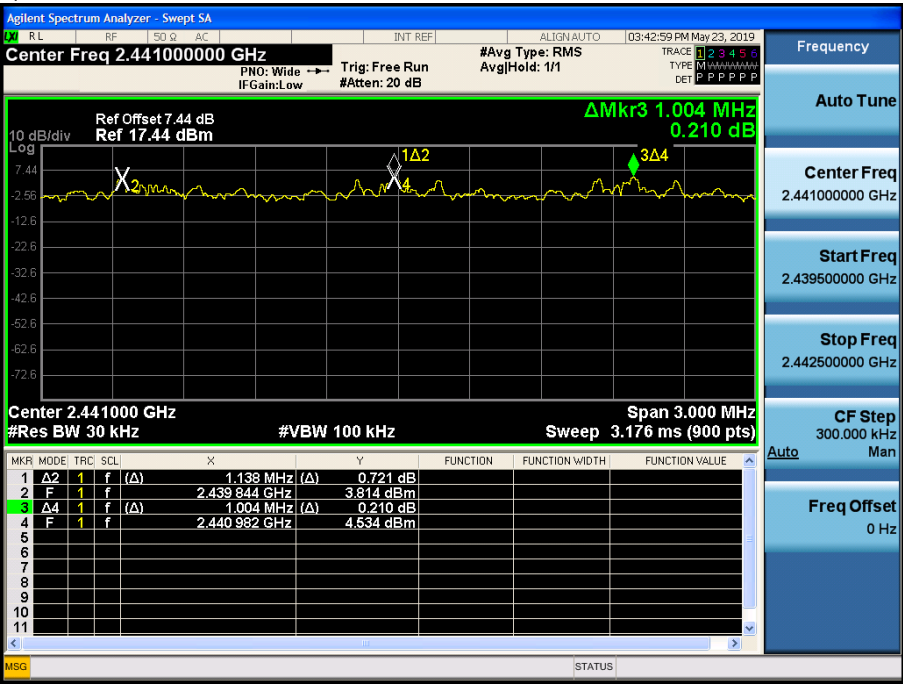


Test Plots ($\pi/4$ DQPSK)

Channel Separation



Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



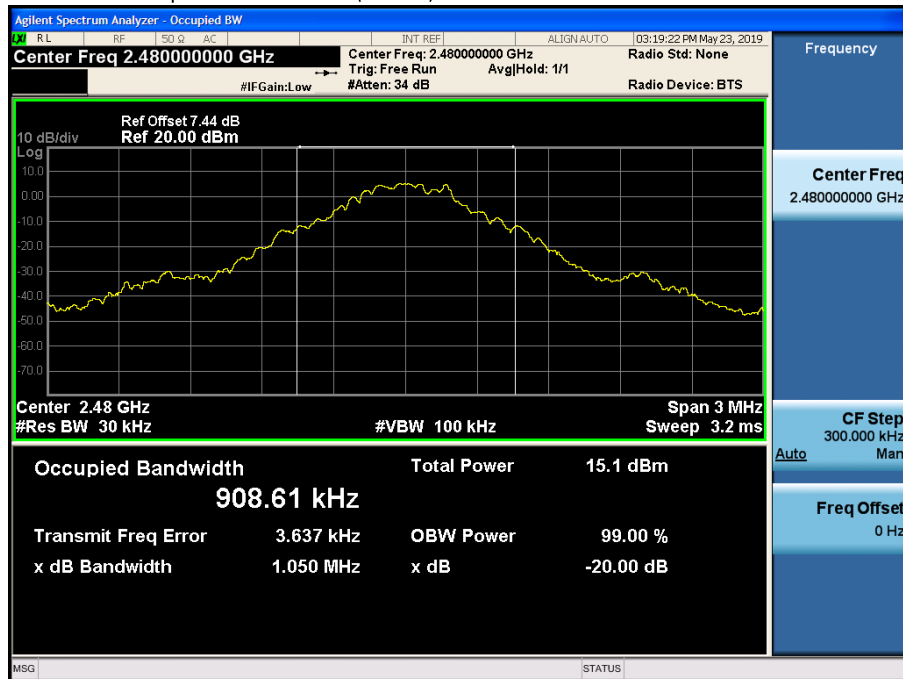
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



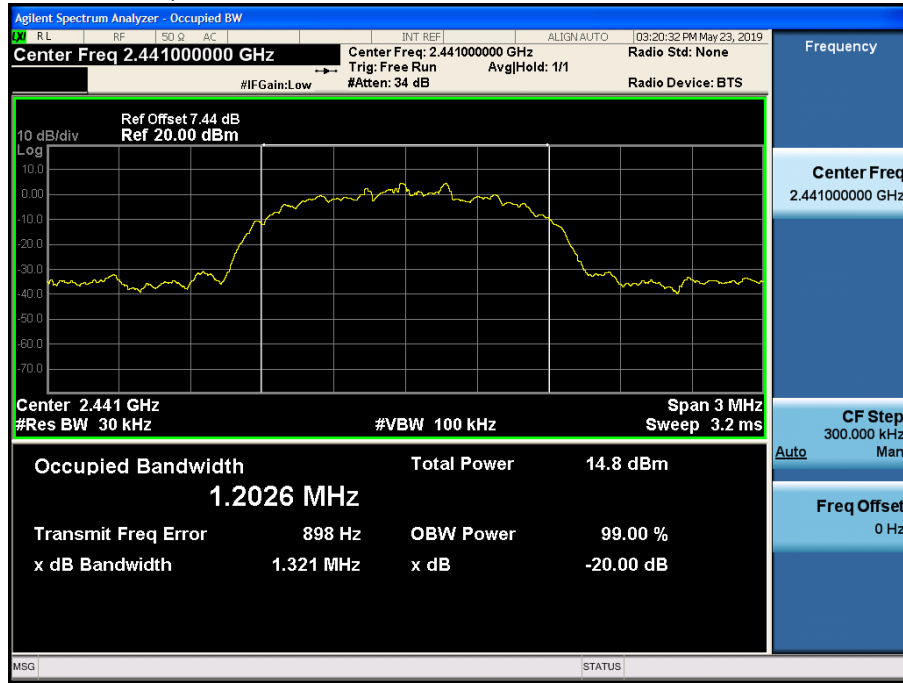
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



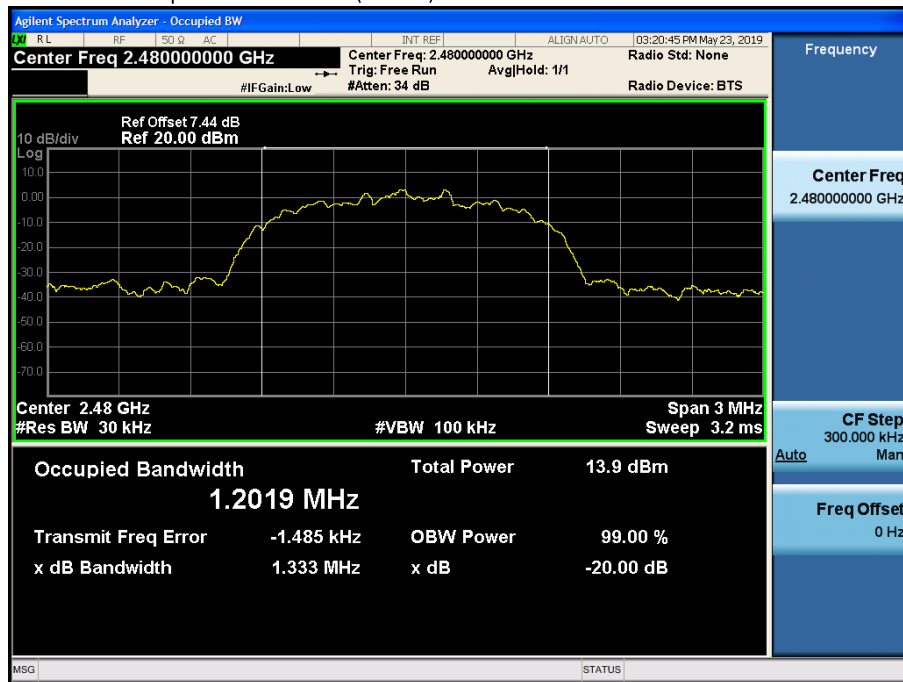
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



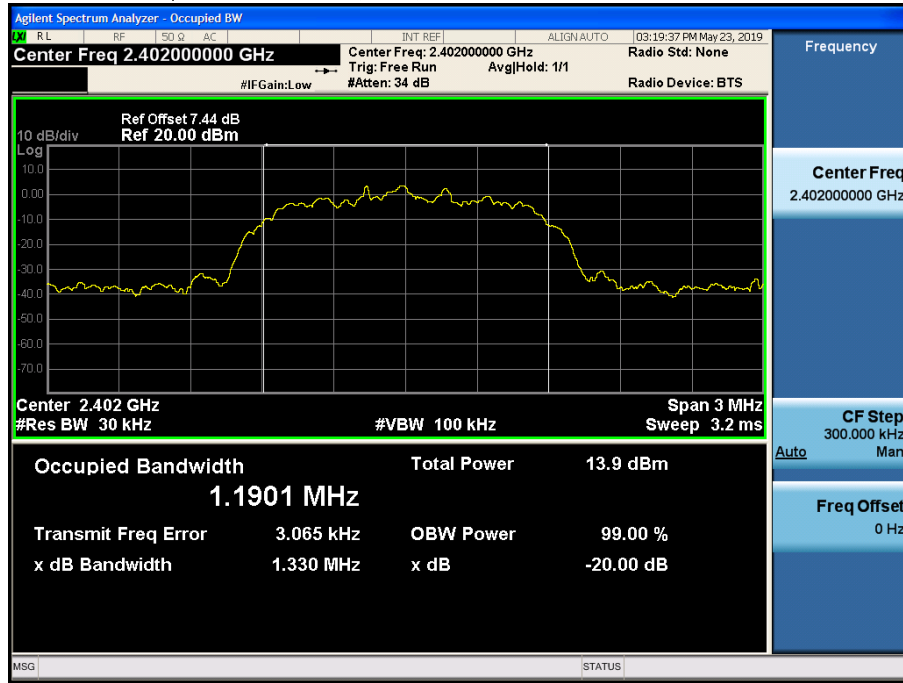
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



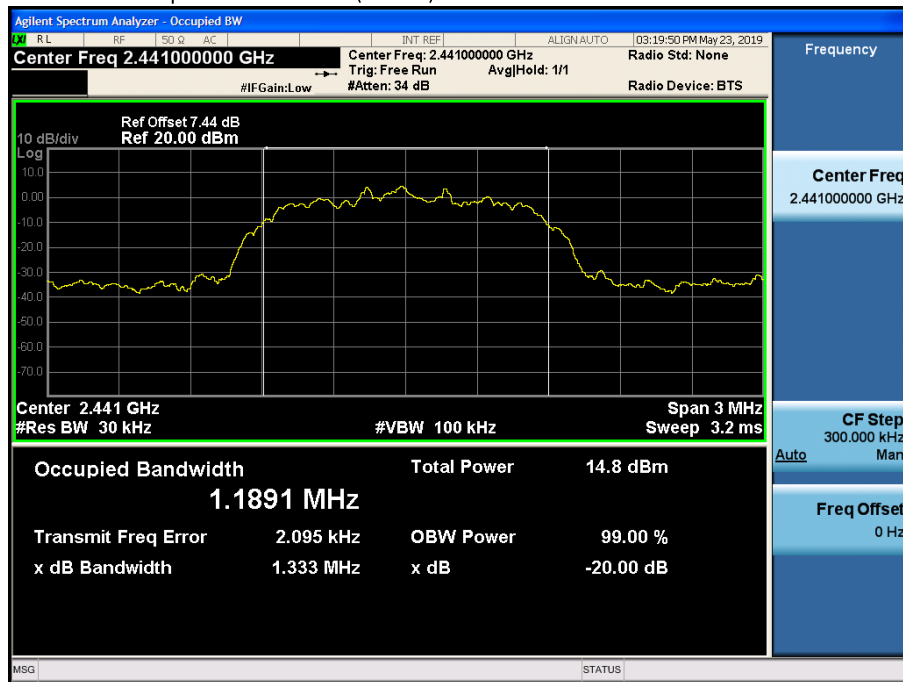
Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



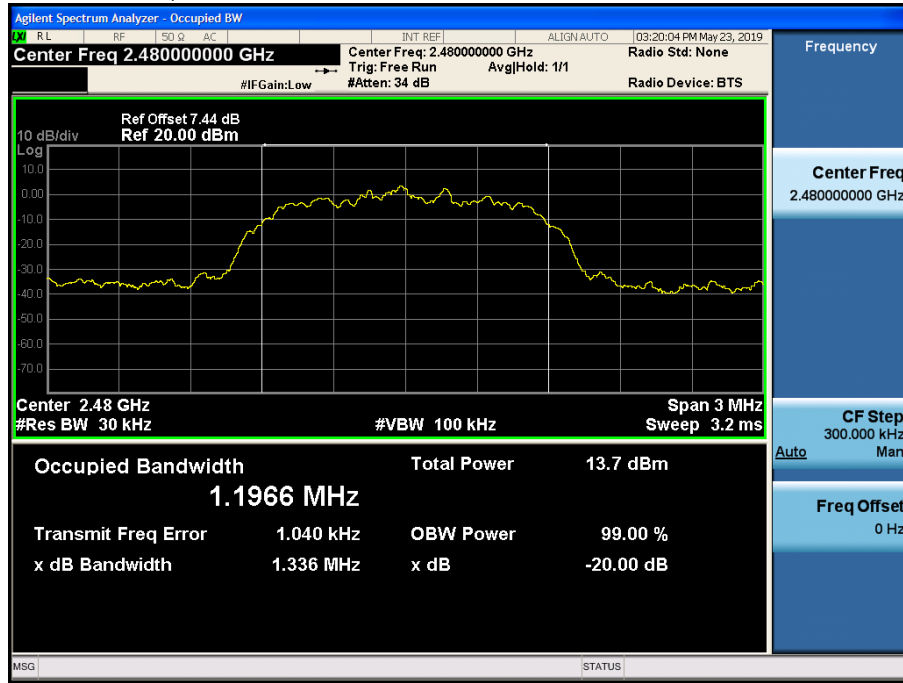
Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



10.4 NUMBER OF HOPPING FREQUENCY

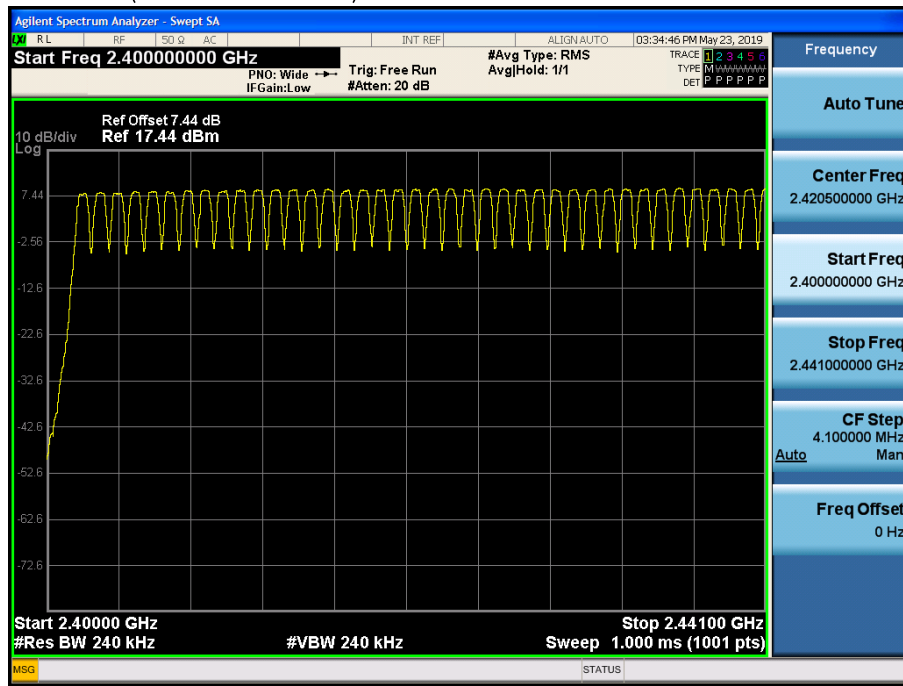
Result (No. of CH)			Limit
GFSK	8DPSK	$\pi/4$ DQPSK	
79	79	79	>15

Note :

In case of AFH mode, minimum number of hopping channels is 20.

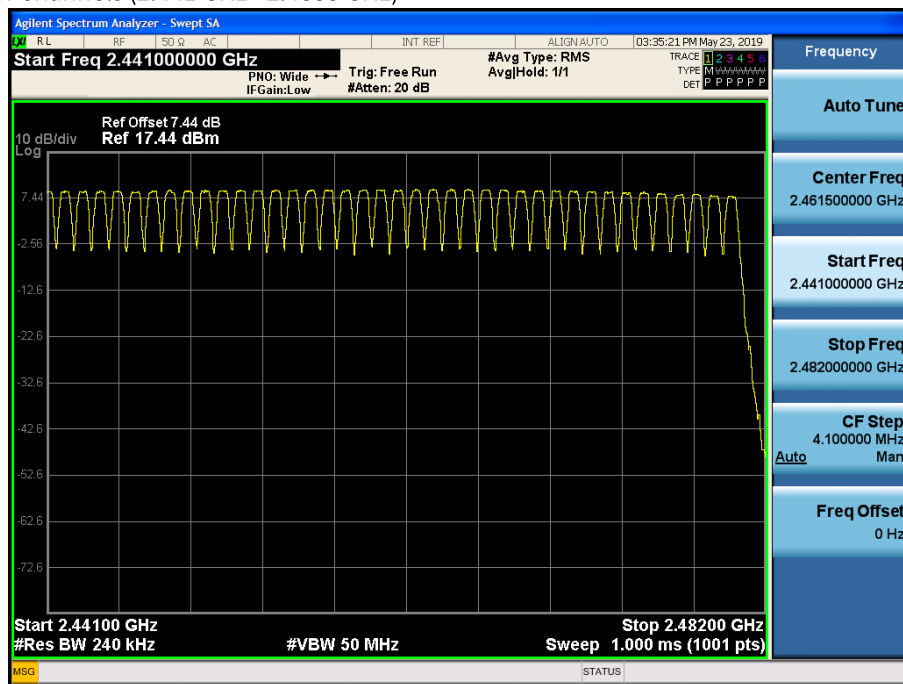
Test Plots (GFSK)

Number of Channels (2.4 GHz - 2.441 GHz)



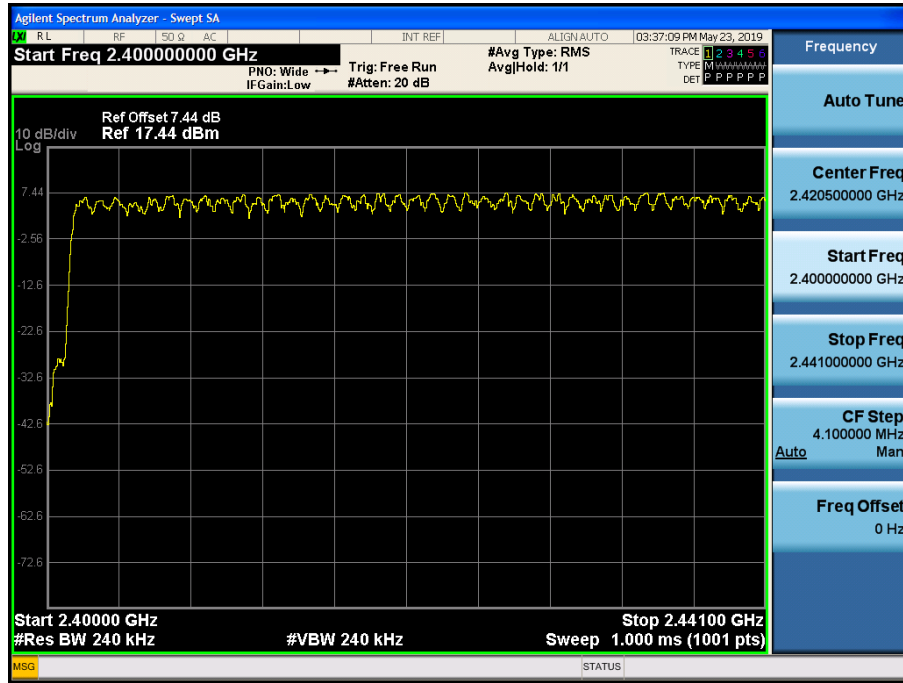
Test Plots (GFSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



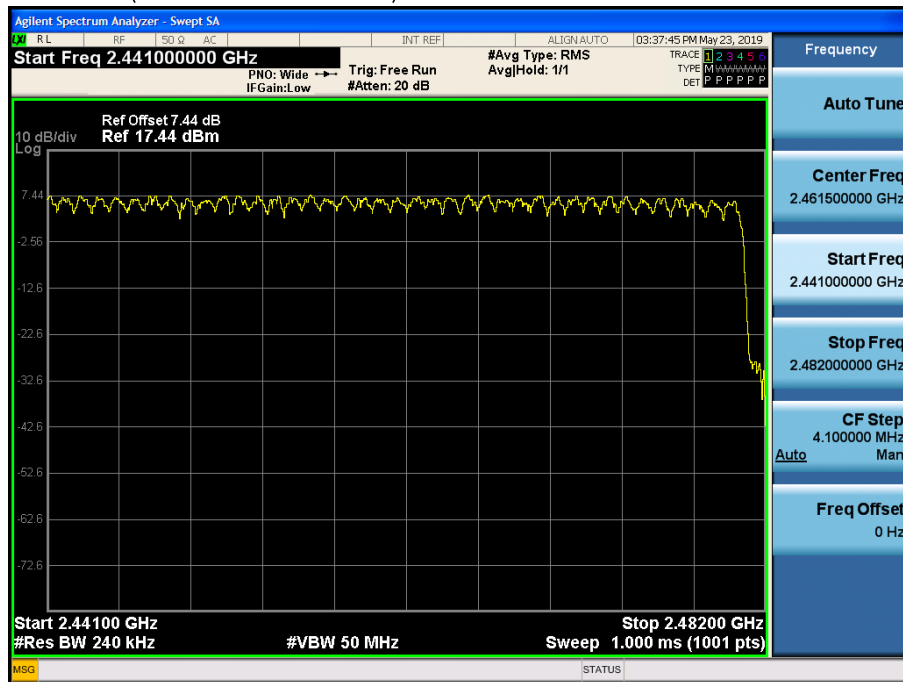
Test Plots (8DPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



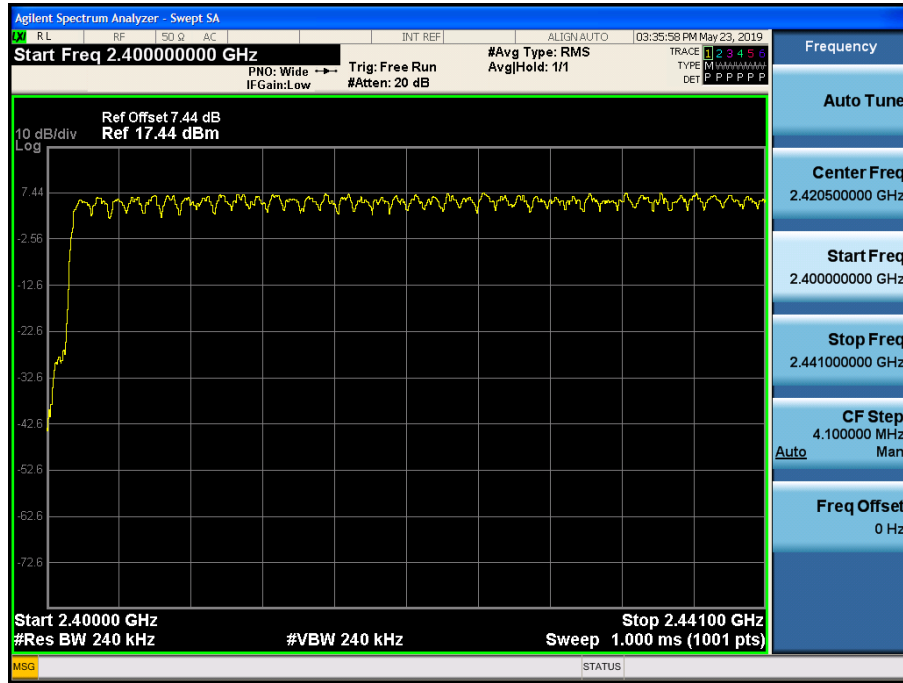
Test Plots (8DPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



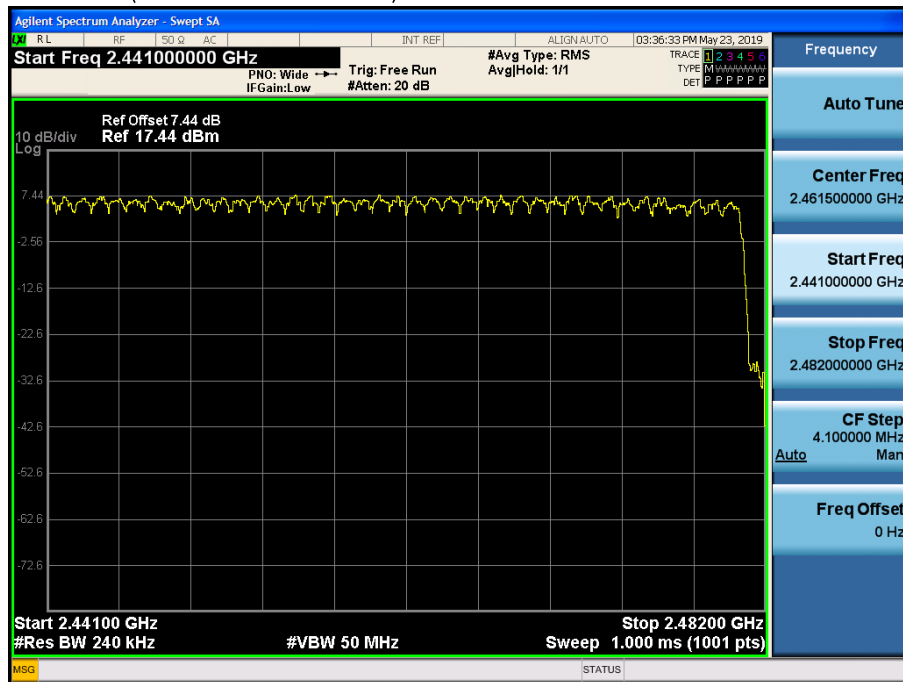
Test Plots ($\pi/4$ DQPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



Test Plots ($\pi/4$ DQPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



10.5 TIME OF OCCUPANCY (DWELL TIME)

	Channel	GFSK	8DPSK	$\pi/4$ DQPSK
Pulse Time (ms)	Low	2.885	2.890	2.890
	Mid	2.885	2.890	2.890
	High	2.885	2.895	2.890

Non-AFH Mode

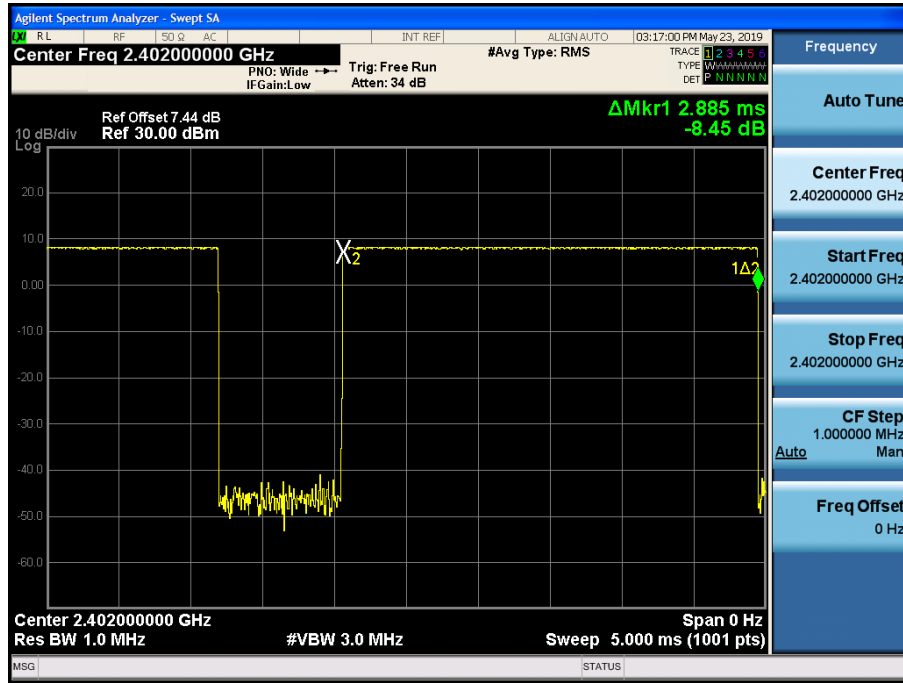
	Channel	GFSK	8DPSK	$\pi/4$ DQPSK	Period Time (s)	Limit (ms)
Total of Dwell (ms)	Low	307.73	308.27	308.27	31.6	400
	Mid	307.73	308.27	308.27	31.6	
	High	307.73	308.80	308.27	31.6	

AFH Mode

	Channel	GFSK	8DPSK	$\pi/4$ DQPSK	Period Time (s)	Limit (ms)
Total of Dwell (ms)	Low	153.87	154.13	154.13	8.0	400
	Mid	153.87	154.13	154.13	8.0	
	High	153.87	154.40	154.13	8.0	

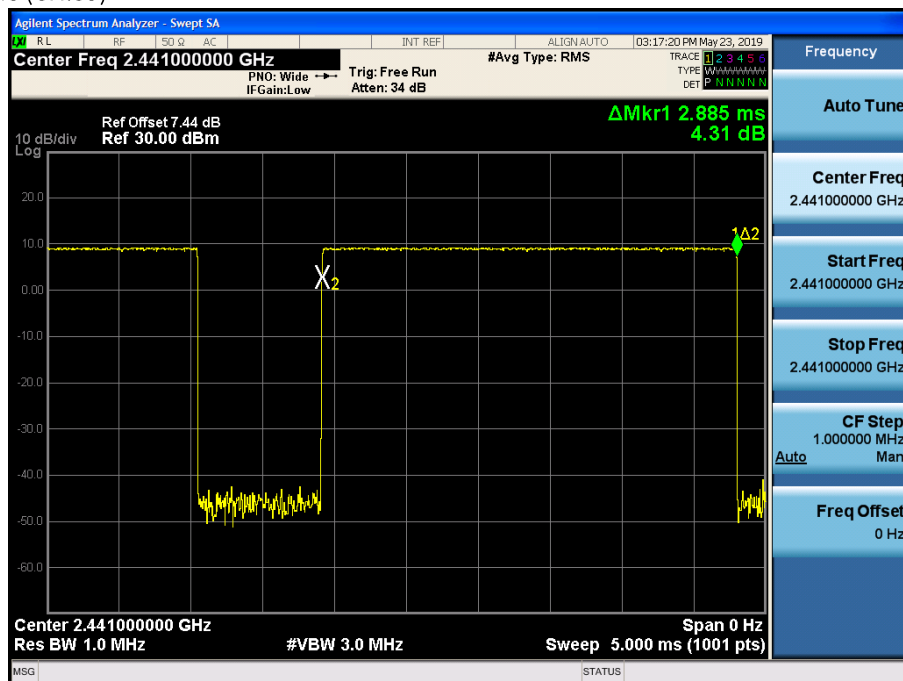
Test Plots (GFSK)

Dwell Time (CH.0)



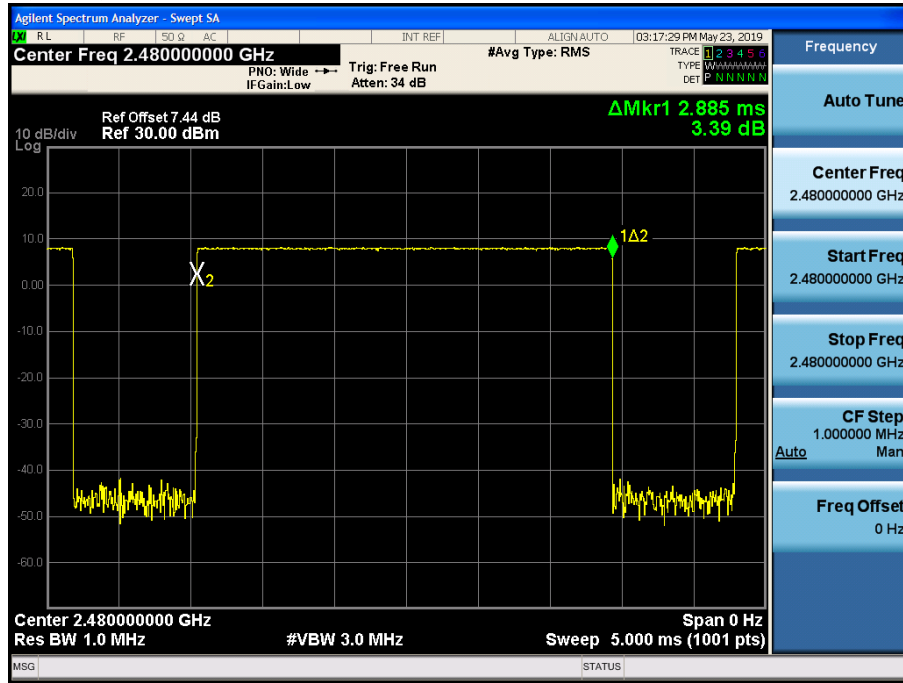
Test Plots (GFSK)

Dwell Time (CH.39)



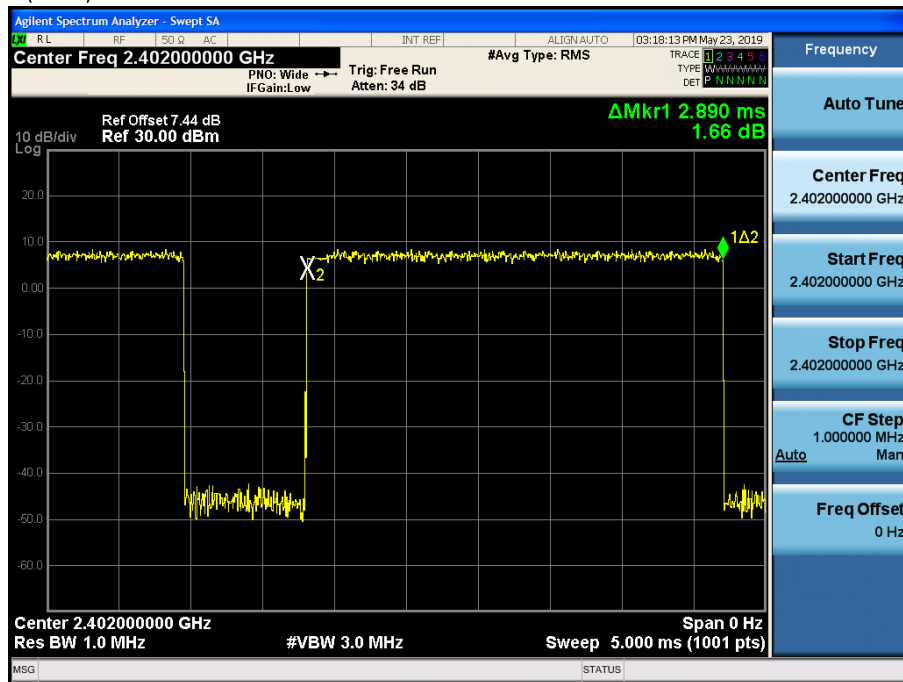
Test Plots (GFSK)

Dwell Time (CH.78)



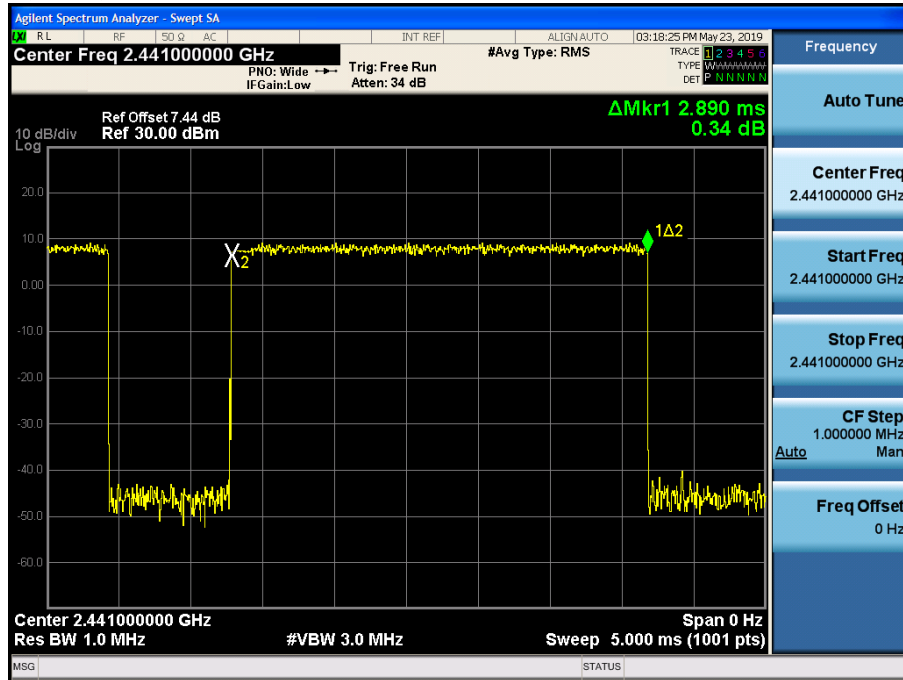
Test Plots (8DPSK)

Dwell Time (CH.0)



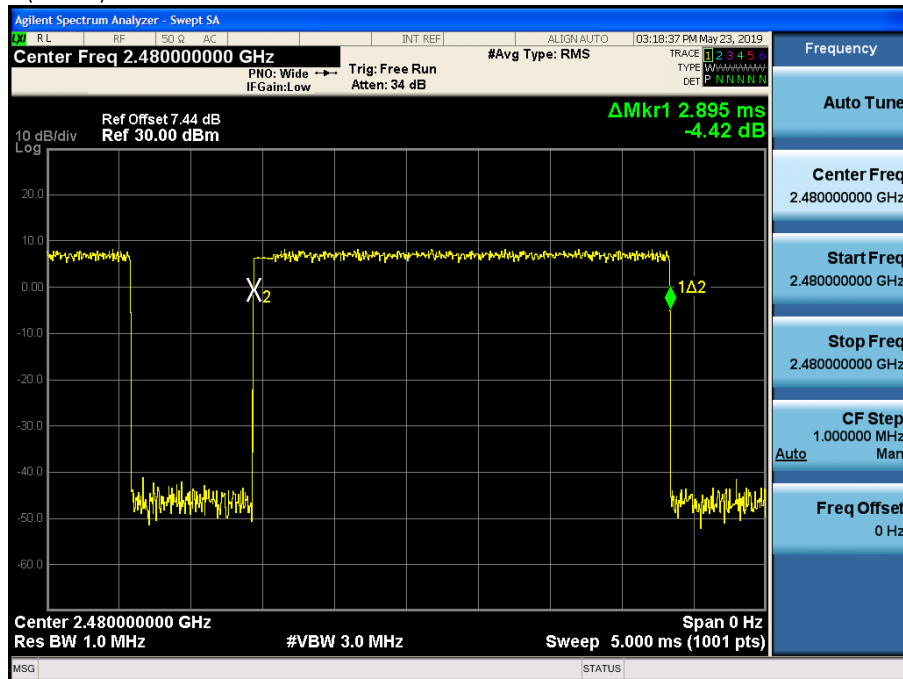
Test Plots (8DPSK)

Dwell Time (CH.39)



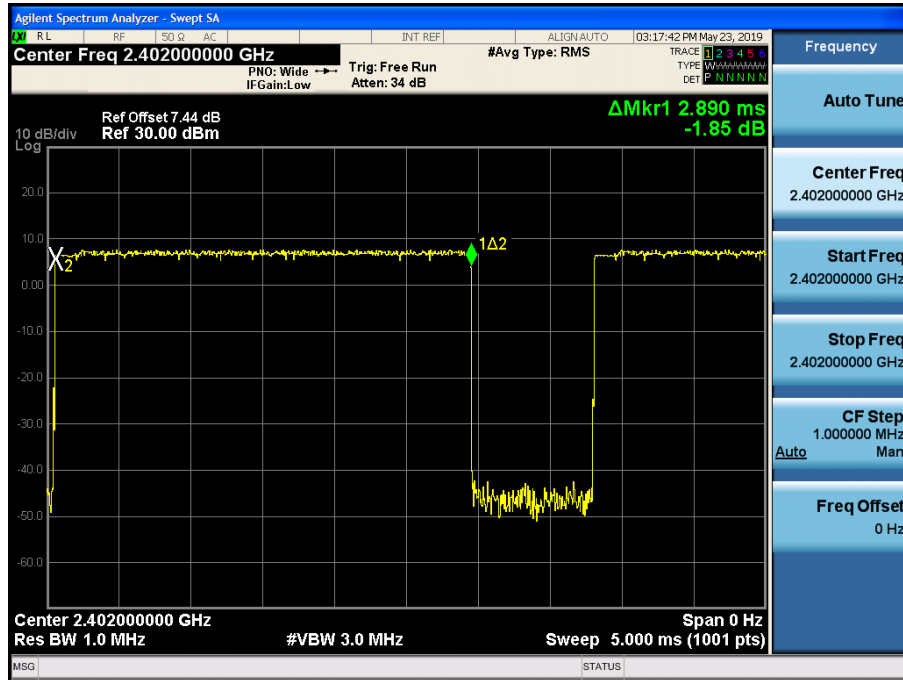
Test Plots (8DPSK)

Dwell Time (CH.78)

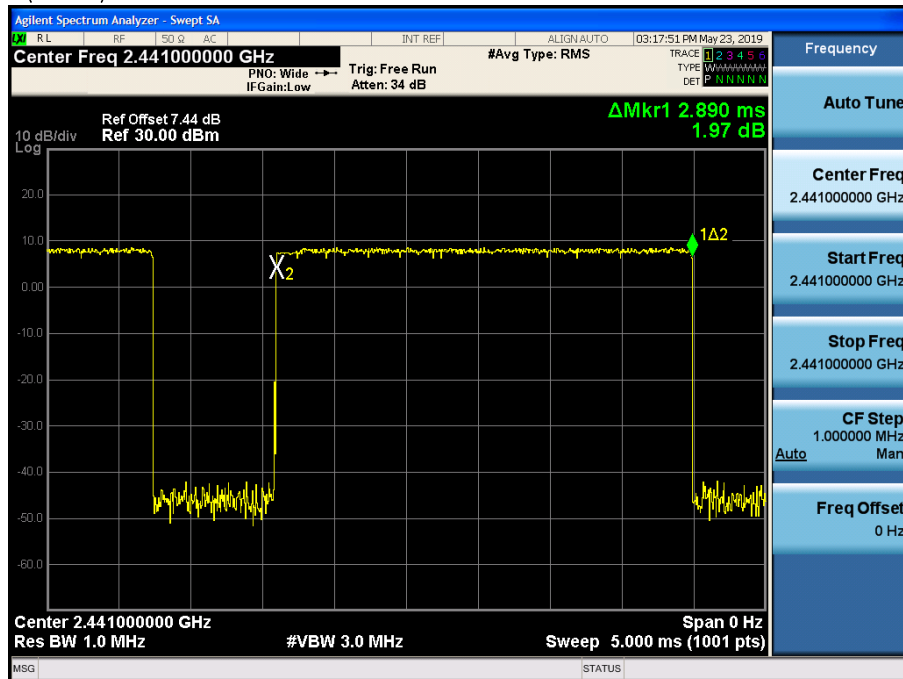


Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)

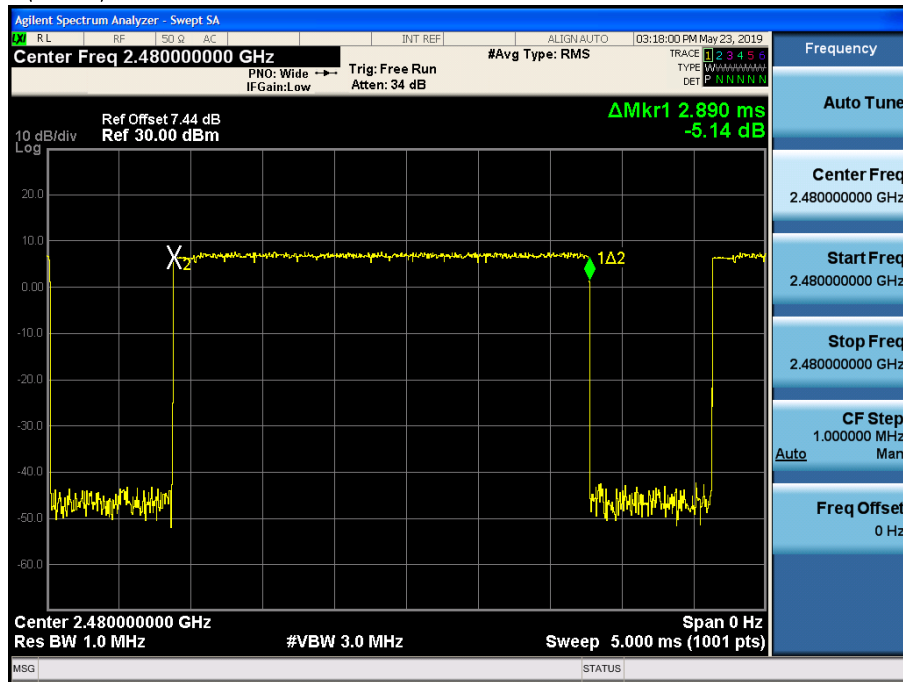

Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



10.6 SPURIOUS EMISSIONS

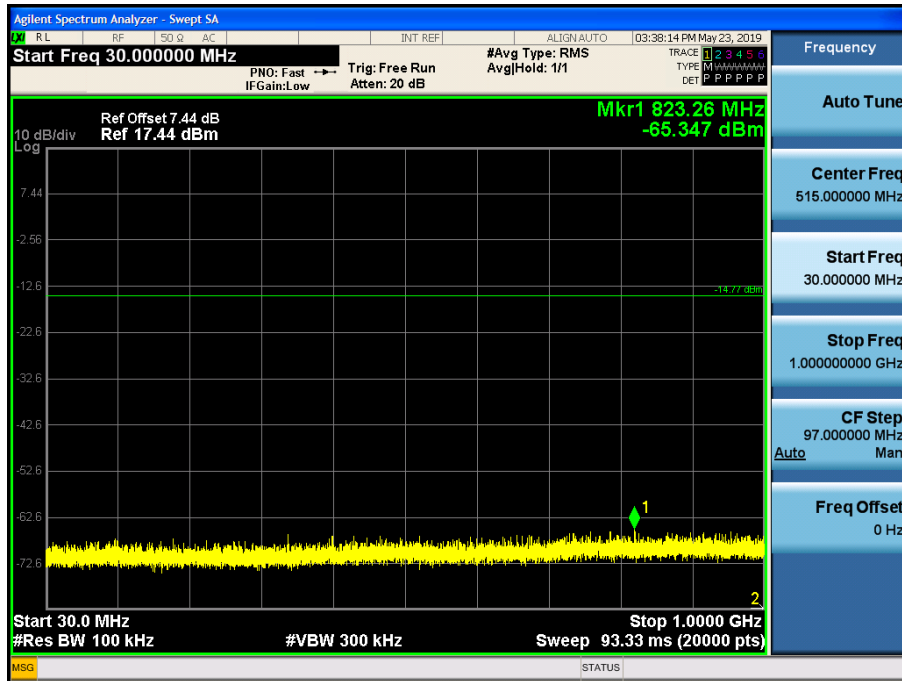
10.6.1 CONDUCTED SPURIOUS EMISSIONS

Test Result : please refer to the plot below.

In order to simplify the report, attached plots were only the worst case channel and data rate.

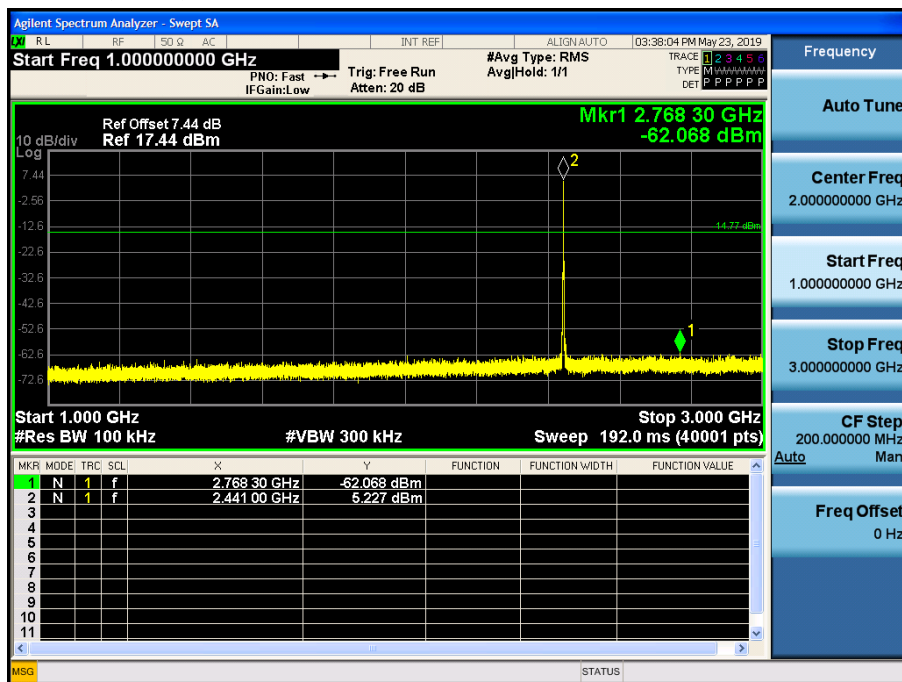
Test Plots (8DPSK)- 30 MHz - 1 GHz

Spurious Emission (CH.39)



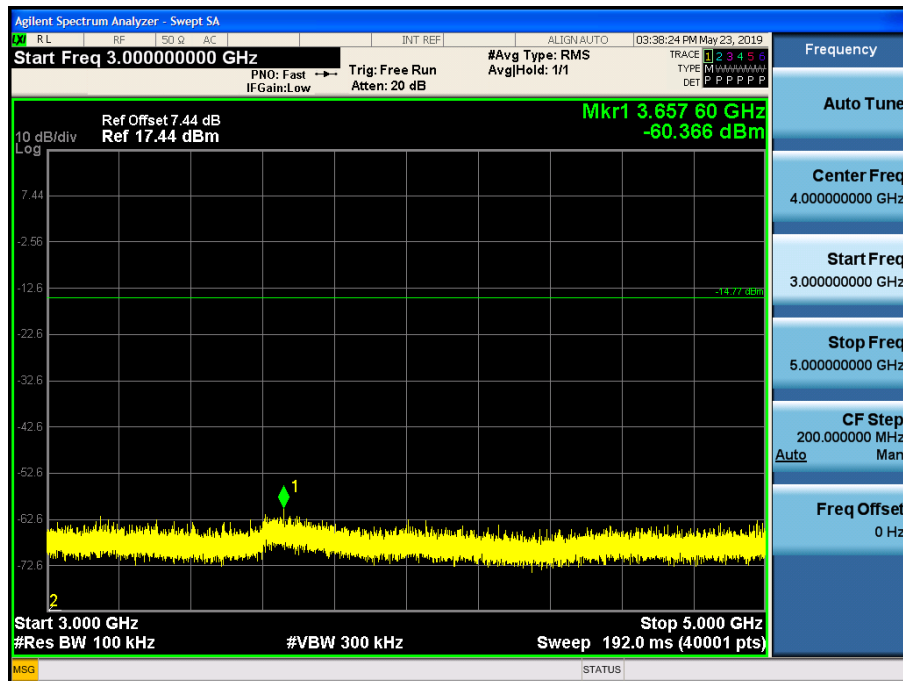
Test Plots (8DPSK)- 1 GHz – 3 GHz

Spurious Emission (CH.39)



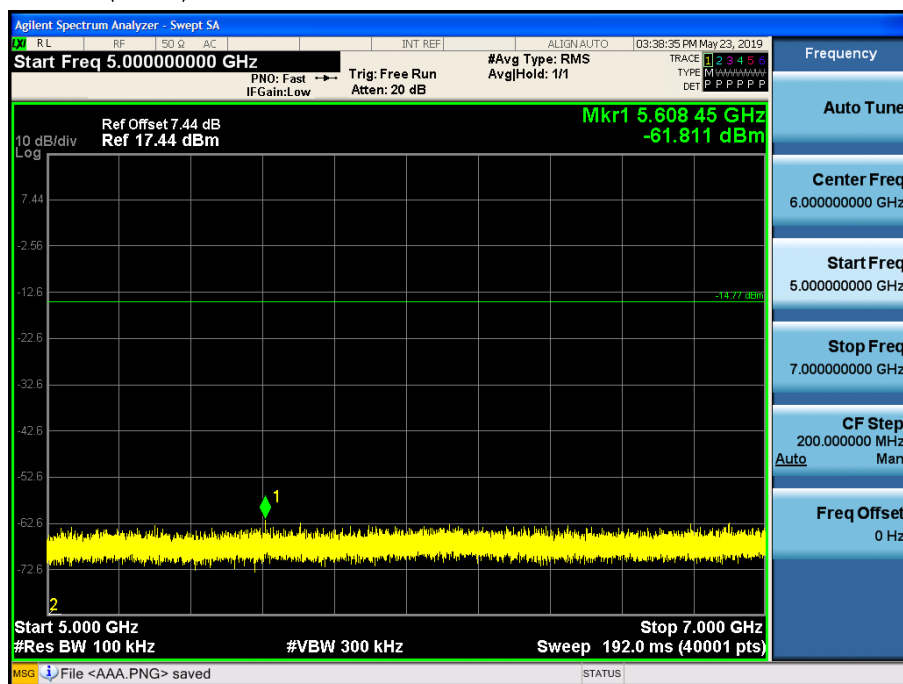
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)



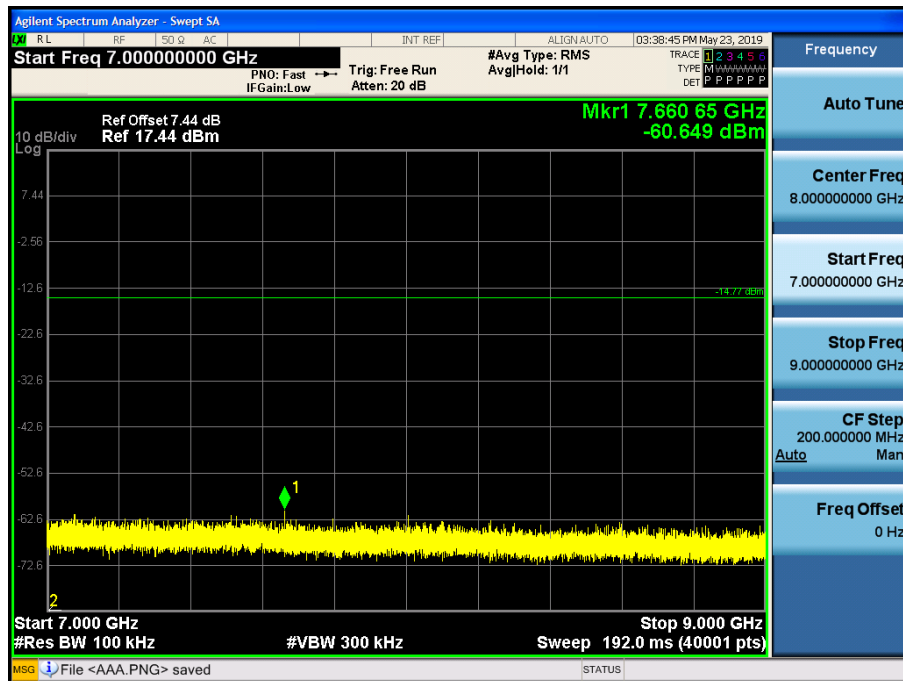
Test Plots (8DPSK)- 5 GHz - 7 GHz

Spurious Emission (CH.39)



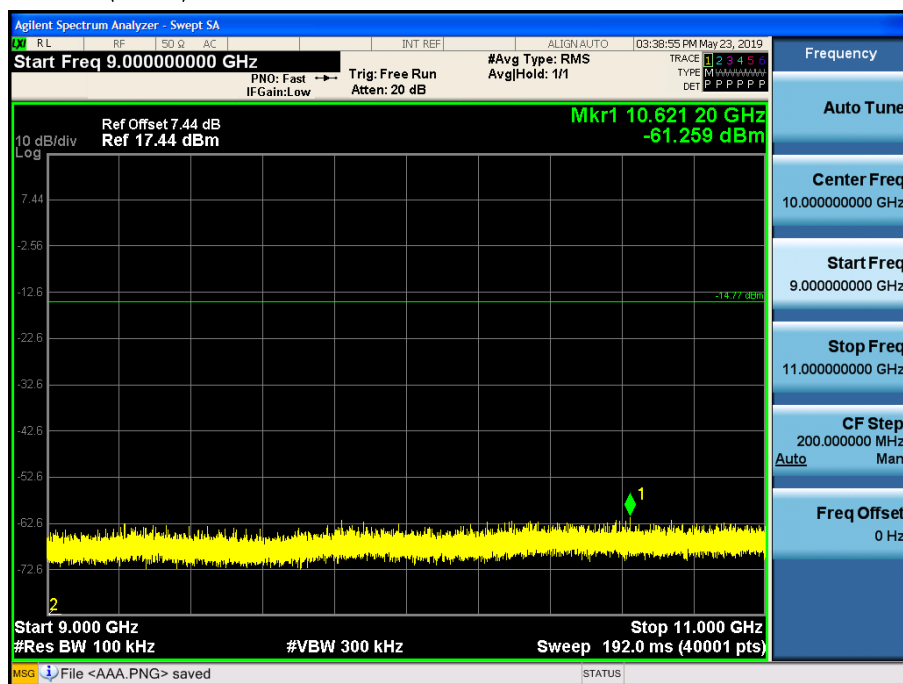
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.39)



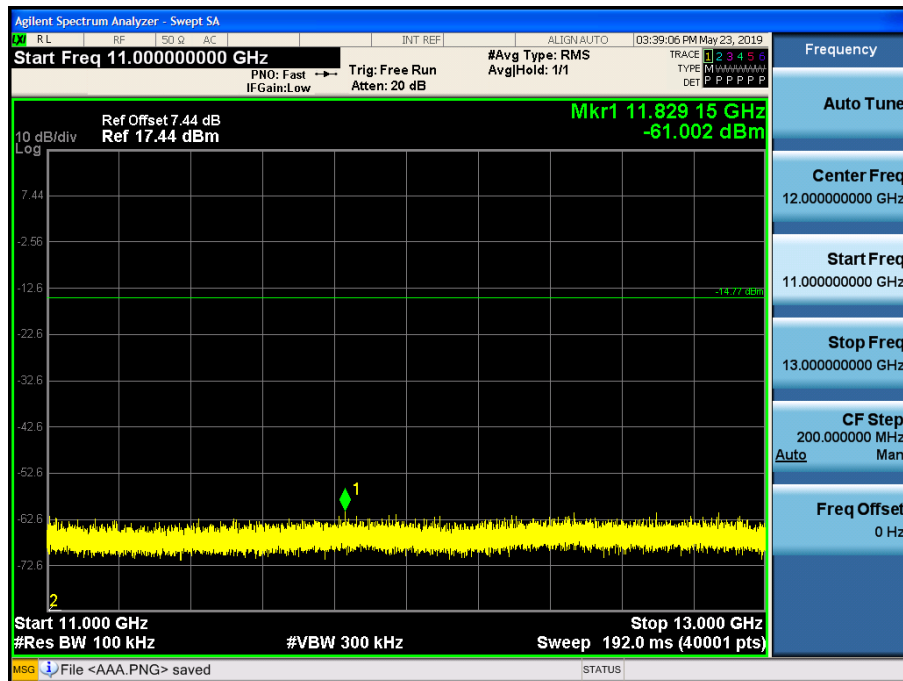
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.39)



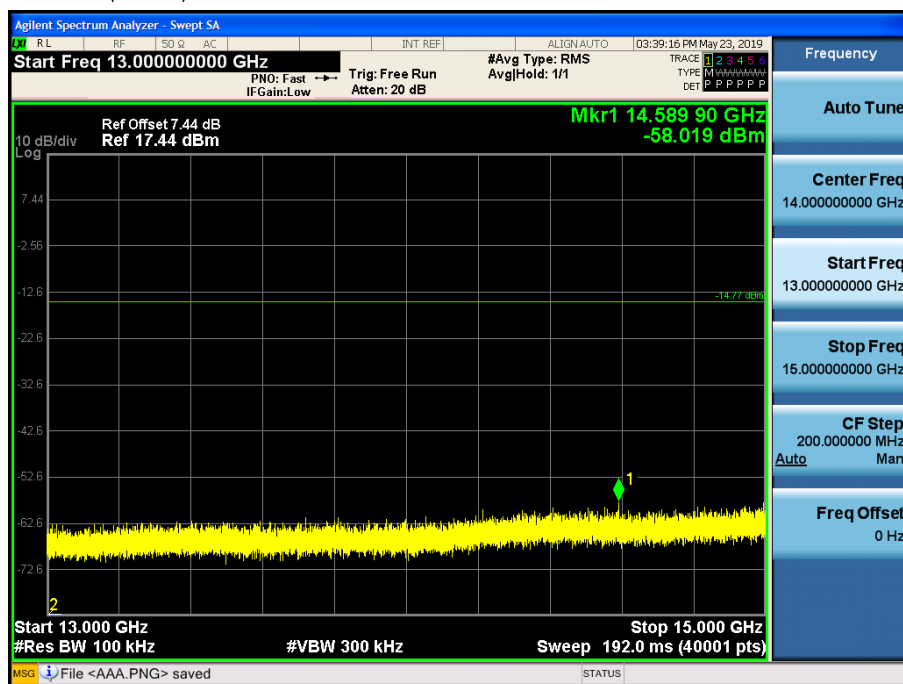
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.39)



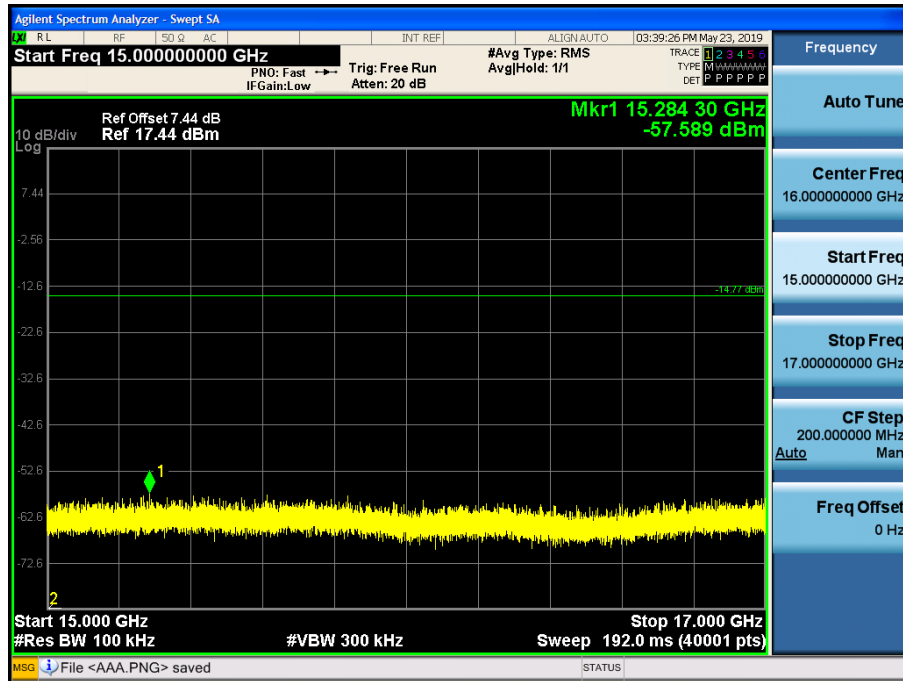
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.39)



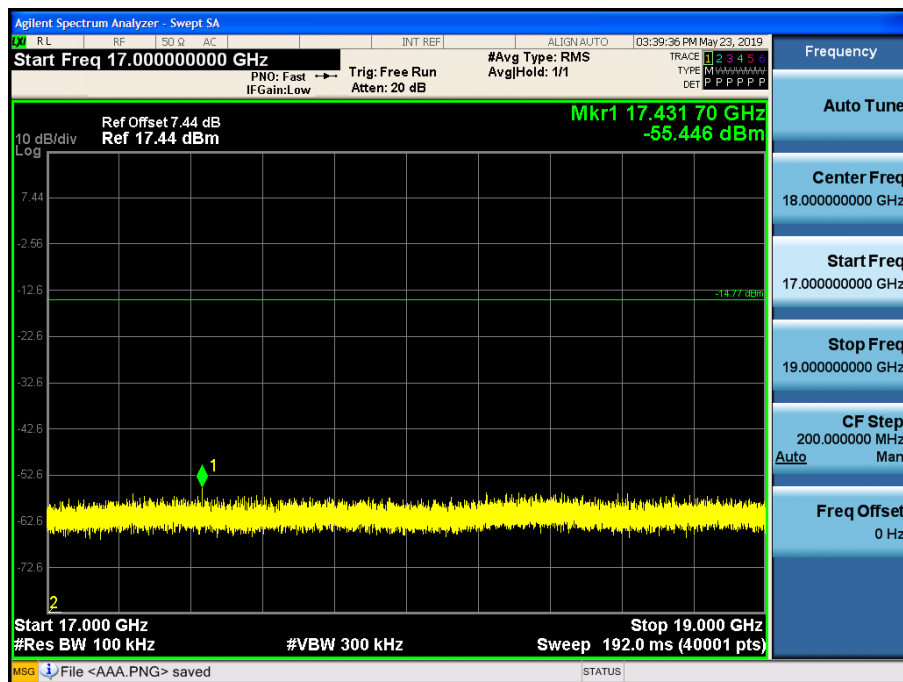
Test Plots(8DPSK)- 15 GHz - 17 GHz

Spurious Emission (CH.39)



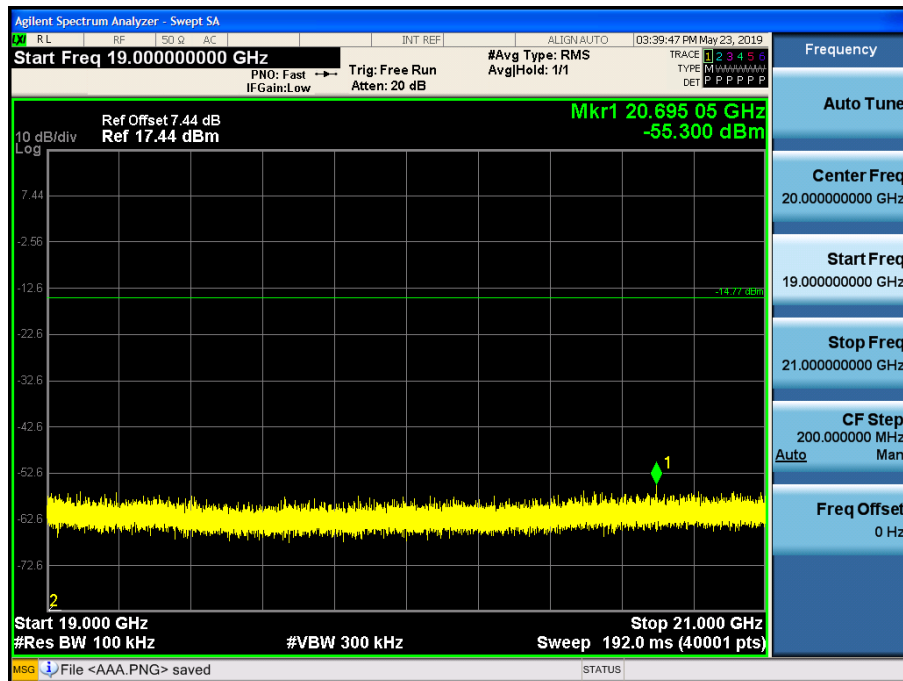
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.39)



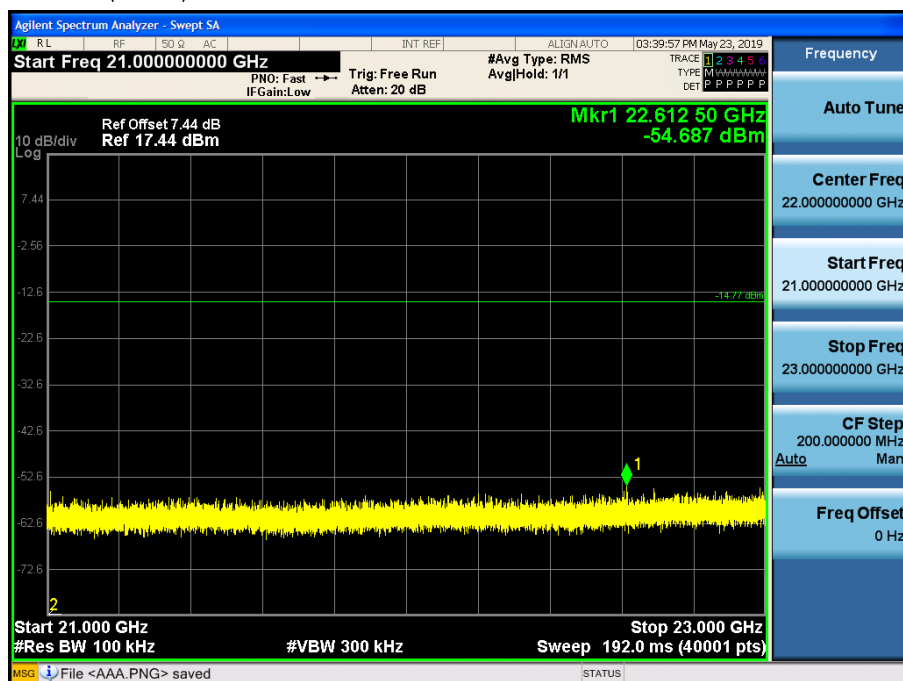
Test Plots (8DPSK)- 19 GHz - 21 GHz

Spurious Emission (CH.39)



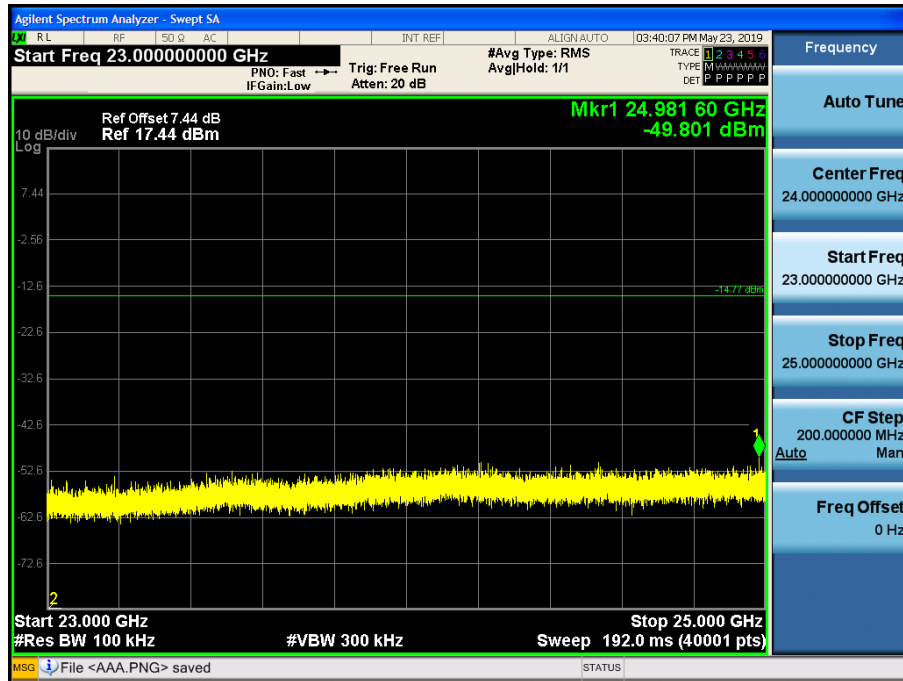
Test Plots (8DPSK)- 21 GHz - 23 GHz

Spurious Emission (CH.39)



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

Spurious Emission (CH.39)



10.6.2 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading 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 = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/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

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	49.08	0.44	V	49.52	73.98	24.46	PK
4804	35.20	0.44	V	35.64	53.98	18.34	AV
7206	45.72	9.25	V	54.965	73.98	19.02	PK
7206	32.17	9.25	V	41.415	53.98	12.57	AV
4804	48.82	0.44	H	49.26	73.98	24.72	PK
4804	35.23	0.44	H	35.67	53.98	18.31	AV
7206	46.01	9.25	H	55.255	73.98	18.73	PK
7206	32.15	9.25	H	41.395	53.98	12.59	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	48.54	0.44	V	48.98	73.98	25.00	PK
4804	34.98	0.44	V	35.42	53.98	18.56	AV
7206	45.55	9.25	V	54.795	73.98	19.19	PK
7206	32.18	9.25	V	41.425	53.98	12.56	AV
4804	48.89	0.44	H	49.33	73.98	24.65	PK
4804	35.01	0.44	H	35.45	53.98	18.53	AV
7206	46.25	9.25	H	55.495	73.98	18.49	PK
7206	32.33	9.25	H	41.575	53.98	12.41	AV

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	48.95	0.44	V	49.39	73.98	24.59	PK
4804	35.05	0.44	V	35.49	53.98	18.49	AV
7206	45.07	9.25	V	54.315	73.98	19.67	PK
7206	32.00	9.25	V	41.245	53.98	12.74	AV
4804	49.11	0.44	H	49.55	73.98	24.43	PK
4804	35.09	0.44	H	35.53	53.98	18.45	AV
7206	46.67	9.25	H	55.915	73.98	18.07	PK
7206	32.35	9.25	H	41.595	53.98	12.39	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	48.21	0.96	V	49.17	73.98	24.81	PK
4882	34.84	0.96	V	35.8	53.98	18.18	AV
7323	45.00	9.14	V	54.14	73.98	19.84	PK
7323	31.90	9.14	V	41.04	53.98	12.94	AV
4882	49.19	0.96	H	50.15	73.98	23.83	PK
4882	35.20	0.96	H	36.16	53.98	17.82	AV
7323	45.54	9.14	H	54.68	73.98	19.30	PK
7323	32.12	9.14	H	41.26	53.98	12.72	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	47.99	0.96	V	48.95	73.98	25.03	PK
4882	34.74	0.96	V	35.7	53.98	18.28	AV
7323	44.97	9.14	V	54.11	73.98	19.87	PK
7323	31.84	9.14	V	40.98	53.98	13.00	AV
4882	48.58	0.96	H	49.54	73.98	24.44	PK
4882	34.80	0.96	H	35.76	53.98	18.22	AV
7323	45.90	9.14	H	55.04	73.98	18.94	PK
7323	32.03	9.14	H	41.17	53.98	12.81	AV

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	48.35	0.96	V	49.31	73.98	24.67	PK
4882	34.79	0.96	V	35.75	53.98	18.23	AV
7323	44.85	9.14	V	53.99	73.98	19.99	PK
7323	31.90	9.14	V	41.04	53.98	12.94	AV
4882	48.84	0.96	H	49.8	73.98	24.18	PK
4882	34.85	0.96	H	35.81	53.98	18.17	AV
7323	46.12	9.14	H	55.26	73.98	18.72	PK
7323	31.95	9.14	H	41.09	53.98	12.89	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	49.30	0.66	V	49.96	73.98	24.02	PK
4960	35.65	0.66	V	36.31	53.98	17.67	AV
7440	45.87	10.16	V	56.03	73.98	17.95	PK
7440	32.04	10.16	V	42.2	53.98	11.78	AV
4960	49.99	0.66	H	50.65	73.98	23.33	PK
4960	35.84	0.66	H	36.5	53.98	17.48	AV
7440	46.10	10.16	H	56.26	73.98	17.72	PK
7440	32.12	10.16	H	42.28	53.98	11.70	AV

Operation Mode: CH High(8DPSK)

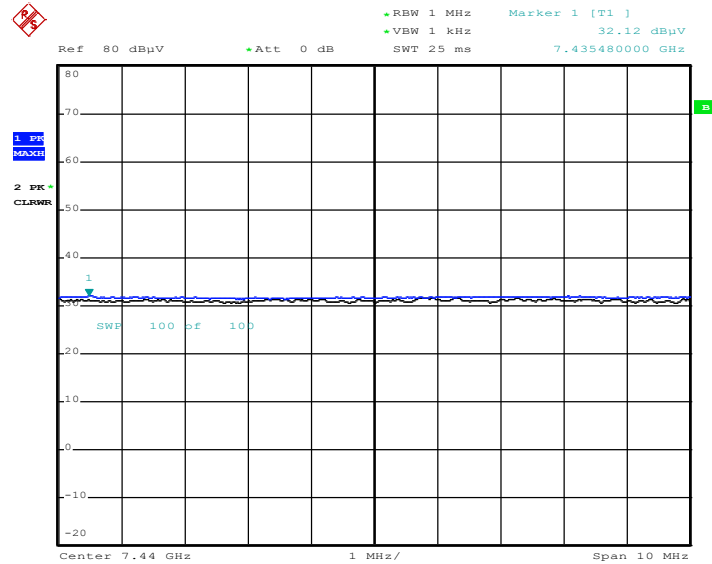
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	49.12	0.66	V	49.78	73.98	24.20	PK
4960	35.51	0.66	V	36.17	53.98	17.81	AV
7440	45.85	10.16	V	56.01	73.98	17.97	PK
7440	31.90	10.16	V	42.06	53.98	11.92	AV
4960	49.34	0.66	H	50	73.98	23.98	PK
4960	35.70	0.66	H	36.36	53.98	17.62	AV
7440	46.50	10.16	H	56.66	73.98	17.32	PK
7440	31.95	10.16	H	42.11	53.98	11.87	AV

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	48.81	0.66	V	49.47	73.98	24.51	PK
4960	35.61	0.66	V	36.27	53.98	17.71	AV
7440	45.98	10.16	V	56.14	73.98	17.84	PK
7440	32.01	10.16	V	42.17	53.98	11.81	AV
4960	49.51	0.66	H	50.17	73.98	23.81	PK
4960	35.78	0.66	H	36.44	53.98	17.54	AV
7440	45.88	10.16	H	56.04	73.98	17.94	PK
7440	31.89	10.16	H	42.05	53.98	11.93	AV

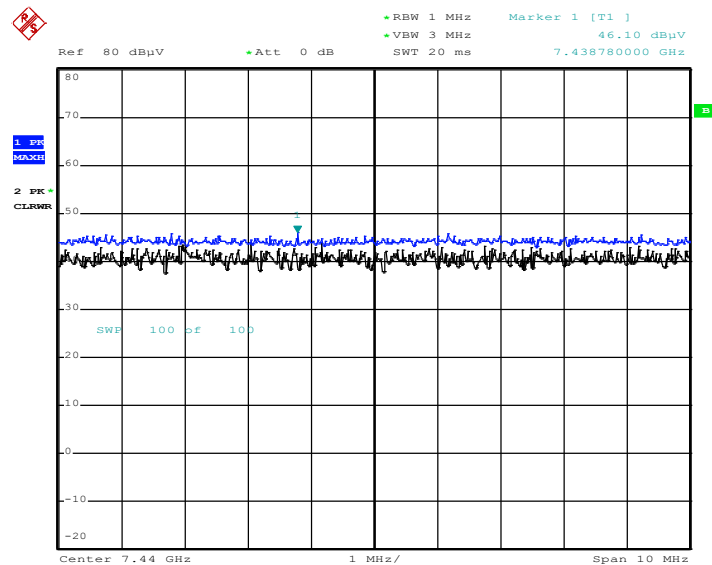
RESULT PLOTS (Worst case : X-H)

Radiated Spurious Emissions plot – Average Reading (GFSK, Ch.78 3rd Harmonic)



Date: 27.MAY.2019 19:43:09

Radiated Spurious Emissions plot – Peak Reading (GFSK, Ch.78 3rd Harmonic)



Date: 27.MAY.2019 19:43:43

Note:

Plot of worst case are only reported.

10.6.3 RADIATED RESTRICTED BAND EDGES

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

Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	21.41	33.39	H	54.80	73.98	19.18	PK
2390.0	10.42	33.39	H	43.81	53.98	10.17	AV
2390.0	21.87	33.39	V	55.26	73.98	18.72	PK
2390.0	10.46	33.39	V	43.85	53.98	10.13	AV
2483.5	26.48	33.39	H	59.87	73.98	14.11	PK
2483.5	13.19	33.39	H	46.58	53.98	7.40	AV
2483.5	33.77	33.39	V	67.16	73.98	6.82	PK
2483.5	14.36	33.39	V	47.75	53.98	6.23	AV

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

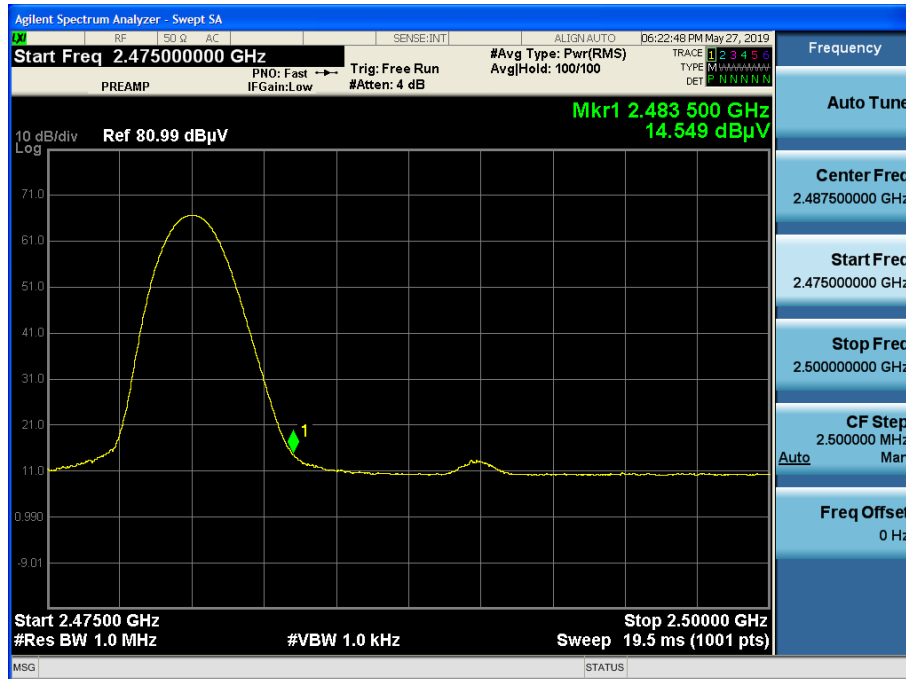
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	20.98	33.39	H	54.37	73.98	19.61	PK
2390.0	10.37	33.39	H	43.76	53.98	10.22	AV
2390.0	21.22	33.39	V	54.61	73.98	19.37	PK
2390.0	10.45	33.39	V	43.84	53.98	10.14	AV
2483.5	33.84	33.39	H	67.23	73.98	6.75	PK
2483.5	14.00	33.39	H	47.39	53.98	6.59	AV
2483.5	33.95	33.39	V	67.34	73.98	6.64	PK
2483.5	14.55	33.39	V	47.94	53.98	6.04	AV

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

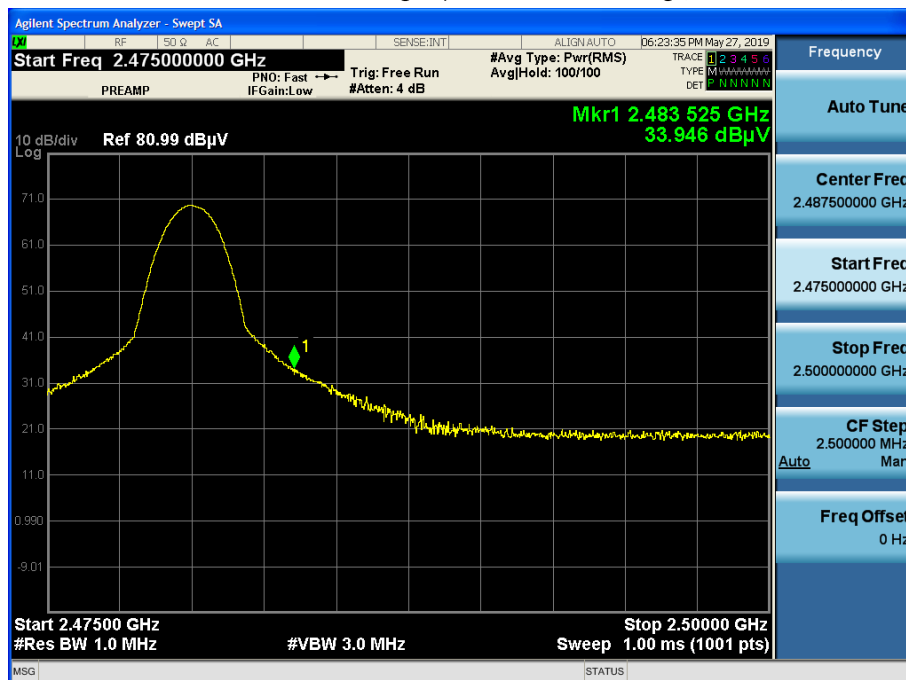
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	21.50	33.39	H	54.89	73.98	19.09	PK
2390.0	10.41	33.39	H	43.80	53.98	10.18	AV
2390.0	21.78	33.39	V	55.17	73.98	18.81	PK
2390.0	10.45	33.39	V	43.84	53.98	10.14	AV
2483.5	33.39	33.39	H	66.78	73.98	7.20	PK
2483.5	13.90	33.39	H	47.29	53.98	6.69	AV
2483.5	34.06	33.39	V	67.45	73.98	6.53	PK
2483.5	14.67	33.39	V	48.06	53.98	5.92	AV

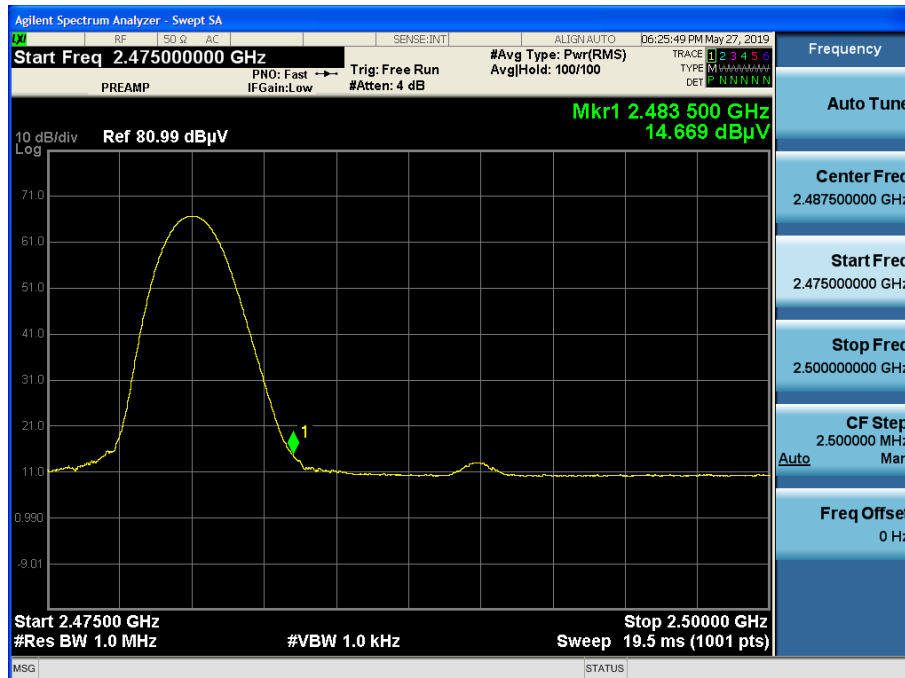
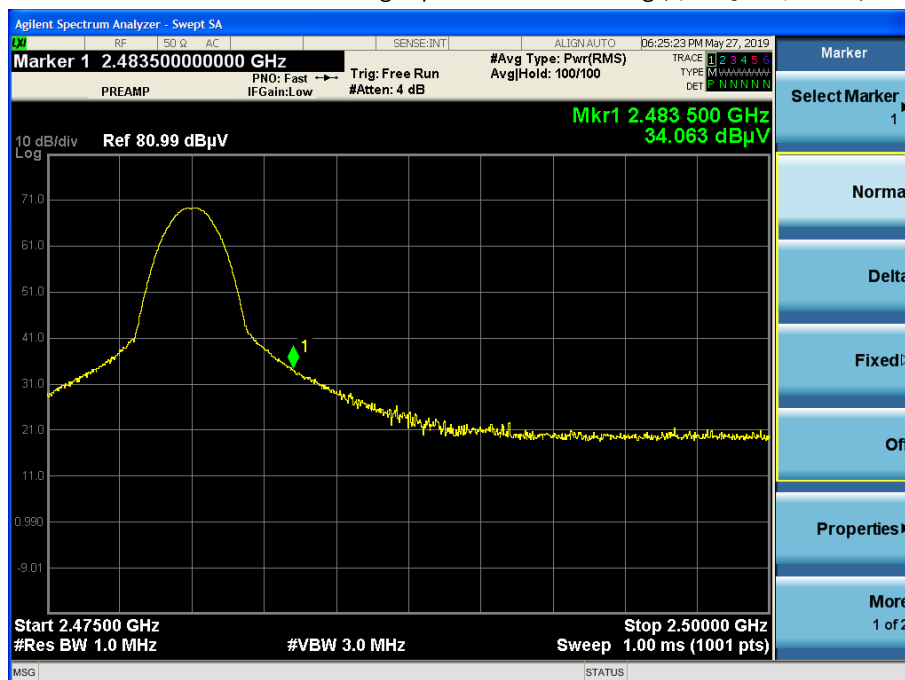
RESULT PLOTS (Worst case : Y-V)

Radiated Restricted Band Edges plot – Average Reading (8DPSK, Ch.78)



Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78)



Radiated Restricted Band Edges plot – Average Reading ($\pi/4$ DQPSK, Ch.78)

Radiated Restricted Band Edges plot – Peak Reading ($\pi/4$ DQPSK, Ch.78)


Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

BT MODE N

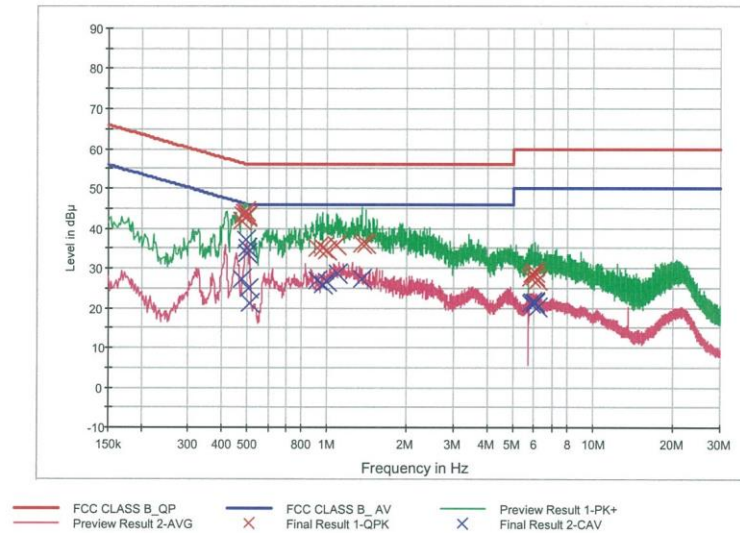
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HCT TEST Report

Common Information

EUT: SM-T517P
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT MODE N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.478000	41.7	9.000	Off	N	9.9	14.7	56.4
0.482000	43.4	9.000	Off	N	9.9	13.0	56.3
0.490000	43.8	9.000	Off	N	9.9	12.4	56.2
0.494000	44.2	9.000	Off	N	9.9	11.9	56.1
0.498000	42.7	9.000	Off	N	9.9	13.3	56.0
0.500000	43.3	9.000	Off	N	9.9	12.8	56.0
0.914000	35.0	9.000	Off	N	10.0	21.0	56.0
0.958000	35.1	9.000	Off	N	10.0	20.9	56.0
1.002000	34.6	9.000	Off	N	10.0	21.4	56.0
1.088000	35.9	9.000	Off	N	10.0	20.1	56.0
1.350000	36.2	9.000	Off	N	10.1	19.8	56.0
1.396000	36.0	9.000	Off	N	10.1	20.0	56.0
5.856000	27.8	9.000	Off	N	10.3	32.2	60.0
5.862000	27.7	9.000	Off	N	10.3	32.3	60.0
5.870000	28.6	9.000	Off	N	10.3	31.4	60.0
6.032000	27.9	9.000	Off	N	10.3	32.1	60.0
6.078000	29.0	9.000	Off	N	10.3	31.0	60.0
6.154000	26.9	9.000	Off	N	10.3	33.1	60.0

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BT MODE N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.478000	27.2	9.000	Off	N	9.9	19.1	46.4
0.494000	37.0	9.000	Off	N	9.9	9.1	46.1
0.498000	35.2	9.000	Off	N	9.9	10.9	46.0
0.500000	33.6	9.000	Off	N	9.9	12.4	46.0
0.506000	24.7	9.000	Off	N	9.9	21.3	46.0
0.510000	21.1	9.000	Off	N	9.9	24.9	46.0
0.914000	26.8	9.000	Off	N	10.0	19.2	46.0
0.958000	26.0	9.000	Off	N	10.0	20.0	46.0
1.002000	26.6	9.000	Off	N	10.0	19.4	46.0
1.090000	28.7	9.000	Off	N	10.0	17.3	46.0
1.350000	27.4	9.000	Off	N	10.1	18.6	46.0
1.354000	27.3	9.000	Off	N	10.1	18.7	46.0
5.856000	21.2	9.000	Off	N	10.3	28.8	50.0
5.862000	21.2	9.000	Off	N	10.3	28.8	50.0
5.870000	21.6	9.000	Off	N	10.3	28.4	50.0
6.032000	21.1	9.000	Off	N	10.3	28.9	50.0
6.078000	21.6	9.000	Off	N	10.3	28.4	50.0
6.154000	20.3	9.000	Off	N	10.3	29.7	50.0

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Conducted Emissions (Line 2)

BT MODE L1

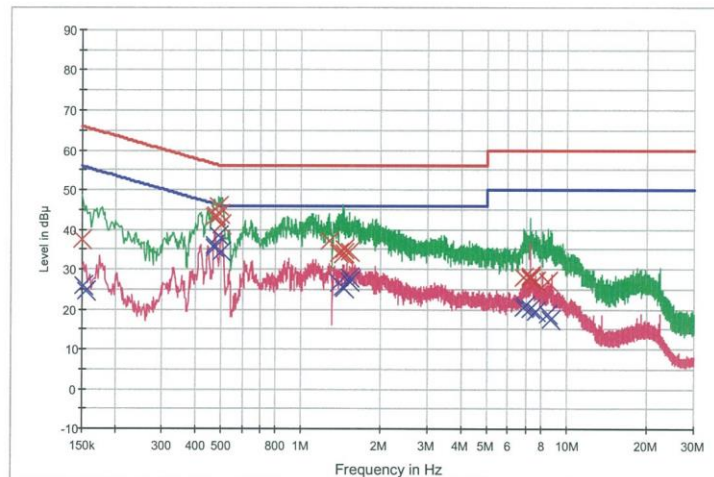
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HCT TEST Report

Common Information

EUT: SM-T517P
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: BT MODE L1

FCC CLASS B_Exten Cable



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	37.4	9.000	Off	L1	9.7	28.6	66.0
0.474000	43.3	9.000	Off	L1	9.8	13.2	56.4
0.478000	43.5	9.000	Off	L1	9.8	12.9	56.4
0.488000	46.0	9.000	Off	L1	9.8	10.2	56.2
0.496000	44.0	9.000	Off	L1	9.8	12.0	56.1
0.502000	41.1	9.000	Off	L1	9.8	14.9	56.0
1.268000	37.1	9.000	Off	L1	9.9	18.9	56.0
1.392000	34.1	9.000	Off	L1	9.9	21.9	56.0
1.438000	33.6	9.000	Off	L1	9.9	22.4	56.0
1.446000	34.2	9.000	Off	L1	9.9	21.8	56.0
1.454000	35.0	9.000	Off	L1	9.9	21.0	56.0
1.514000	34.4	9.000	Off	L1	9.9	21.6	56.0
6.864000	27.8	9.000	Off	L1	10.1	32.2	60.0
7.294000	28.1	9.000	Off	L1	10.1	31.9	60.0
7.302000	27.7	9.000	Off	L1	10.1	32.3	60.0
7.322000	28.3	9.000	Off	L1	10.1	31.7	60.0
7.652000	27.1	9.000	Off	L1	10.2	32.9	60.0
8.510000	26.9	9.000	Off	L1	10.2	33.1	60.0

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BT MODE L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	25.8	9.000	Off	L1	9.7	30.1	55.9
0.156000	24.4	9.000	Off	L1	9.7	31.3	55.7
0.470000	36.1	9.000	Off	L1	9.8	10.4	46.5
0.474000	35.5	9.000	Off	L1	9.8	11.0	46.4
0.488000	38.4	9.000	Off	L1	9.8	7.8	46.2
0.502000	34.4	9.000	Off	L1	9.8	11.6	46.0
1.392000	26.6	9.000	Off	L1	9.9	19.4	46.0
1.436000	25.4	9.000	Off	L1	9.9	20.6	46.0
1.440000	25.6	9.000	Off	L1	9.9	20.4	46.0
1.452000	25.3	9.000	Off	L1	9.9	20.7	46.0
1.514000	27.8	9.000	Off	L1	9.9	18.2	46.0
1.518000	27.1	9.000	Off	L1	9.9	18.9	46.0
6.864000	20.6	9.000	Off	L1	10.1	29.4	50.0
6.946000	20.9	9.000	Off	L1	10.1	29.1	50.0
7.296000	20.2	9.000	Off	L1	10.1	29.8	50.0
7.652000	19.3	9.000	Off	L1	10.2	30.7	50.0
8.510000	18.9	9.000	Off	L1	10.2	31.1	50.0
8.676000	17.4	9.000	Off	L1	10.2	32.6	50.0

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5 LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2018	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9020A / Signal Analyzer	05/24/2019	Annual	MY52090906
Agilent	N9030A / Signal Analyzer	01/10/2019	Annual	MY49431210
Rohde & Schwarz	OSP 120 / Power Measurement Set	07/26/2018	Annual	101231
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/26/2018	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/10/2018	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2019	Annual	100422

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	03/22/2019	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	08/01/2017	Biennial	1151
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/03/2018	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/28/2018	Annual	101068-SZ
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	05/23/2019	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/03/2019	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/04/2019	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	07/17/2018	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/10/2018	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/10/2018	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

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.

6 ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1906-FC036-P