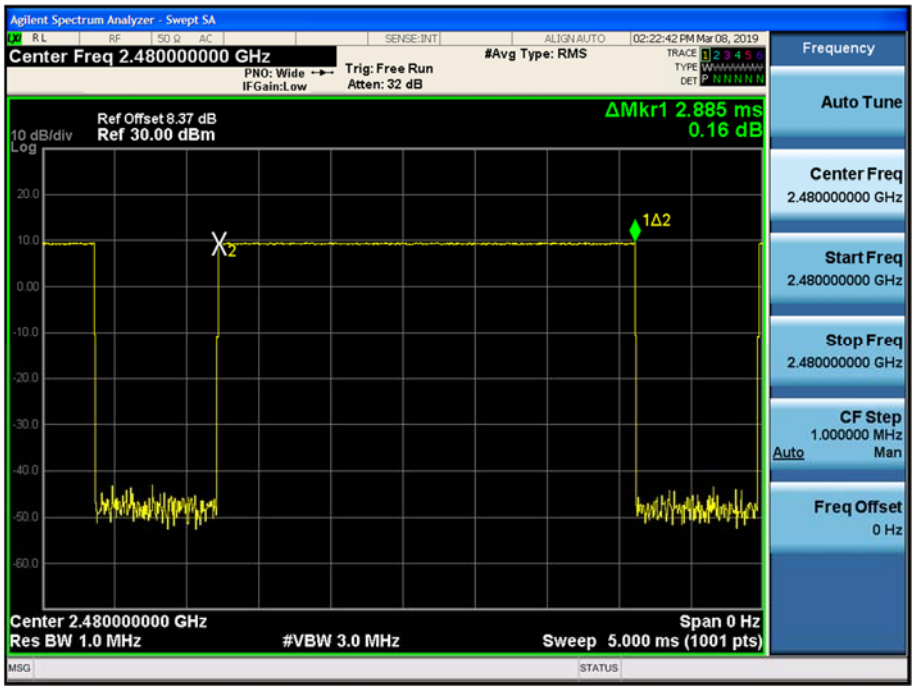
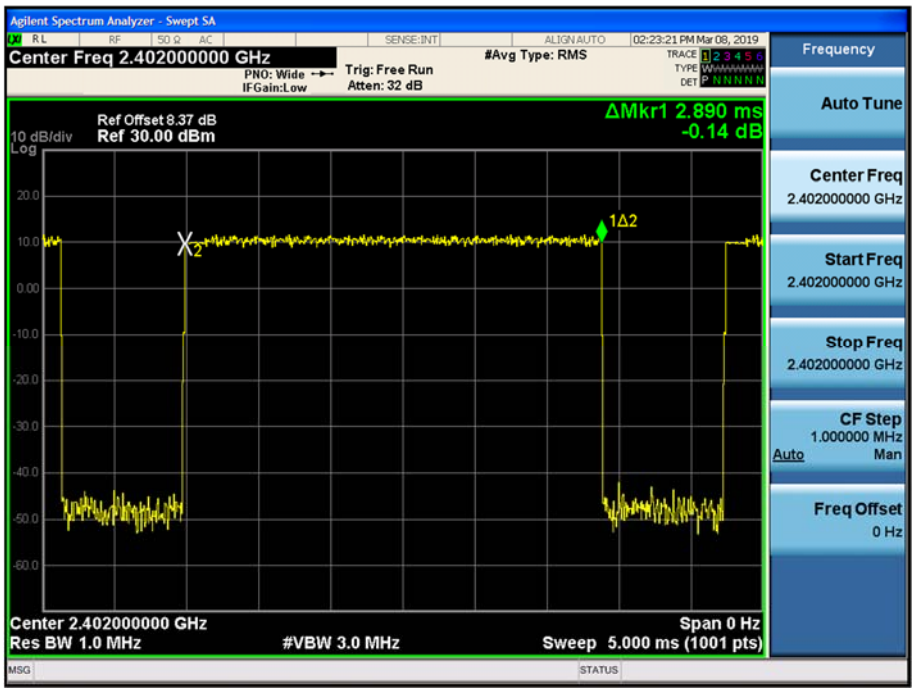
Test Plots (GFSK)

Dwell Time (CH.78)



Test Plots (8DPSK)

Dwell Time (CH.0)

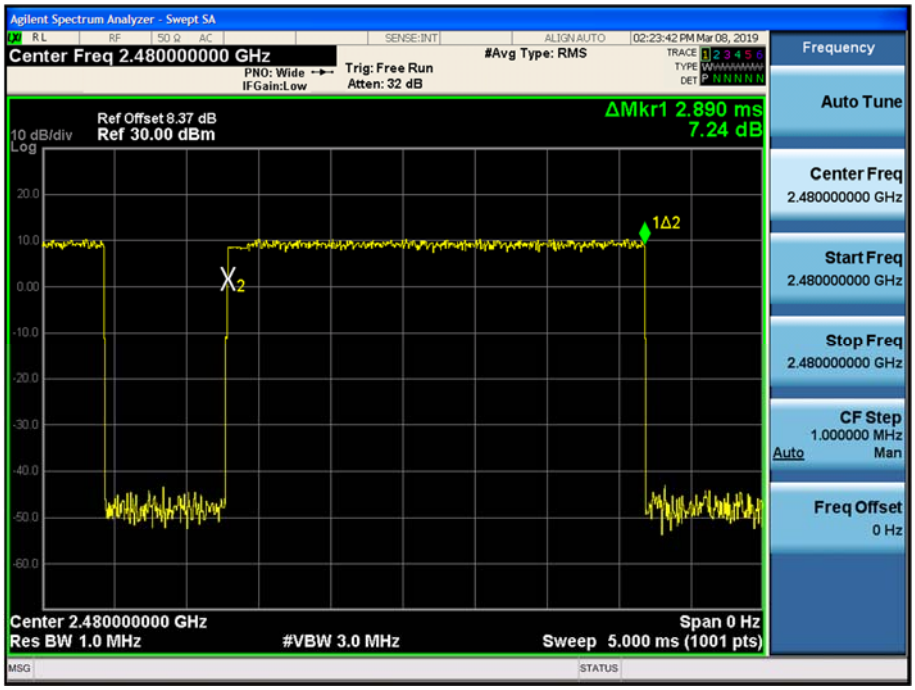


Test Plots (8DPSK)

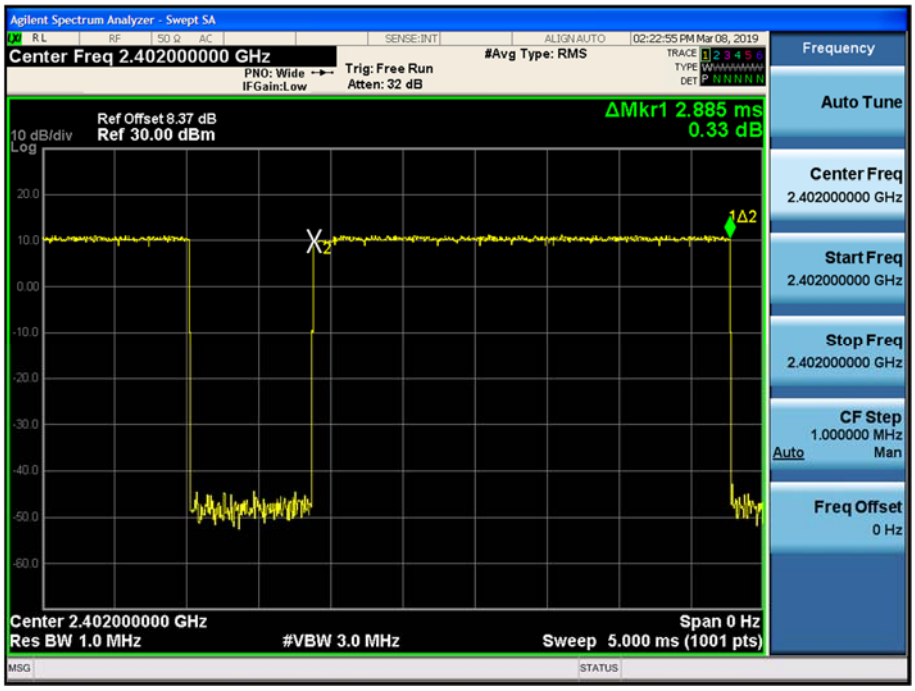
Dwell Time (CH.39)

Test Plots (8DPSK)

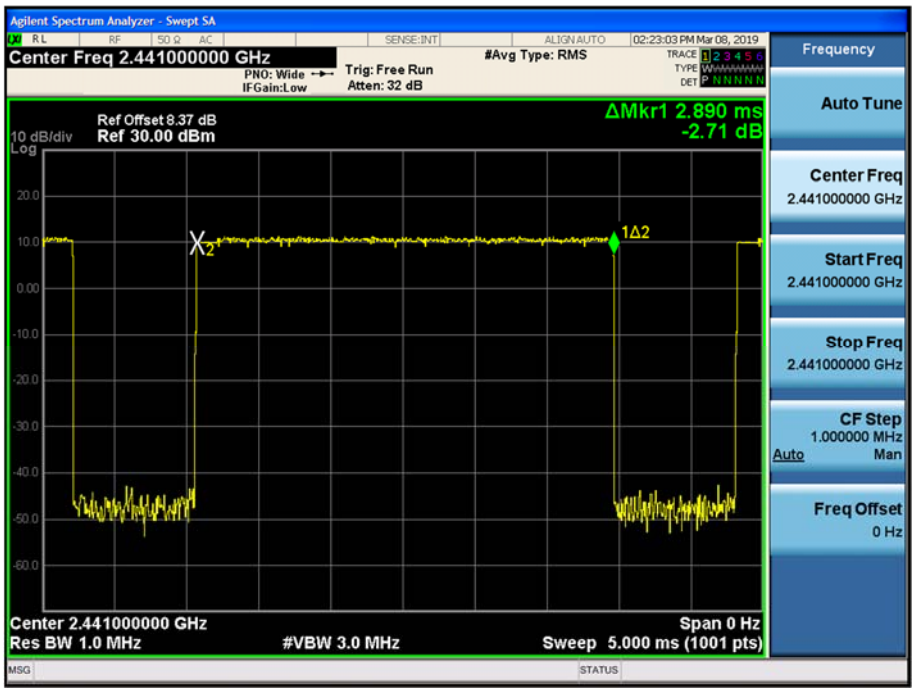
Dwell Time (CH.78)



Test Plots (π/4DQPSK)
Dwell Time (CH.0)

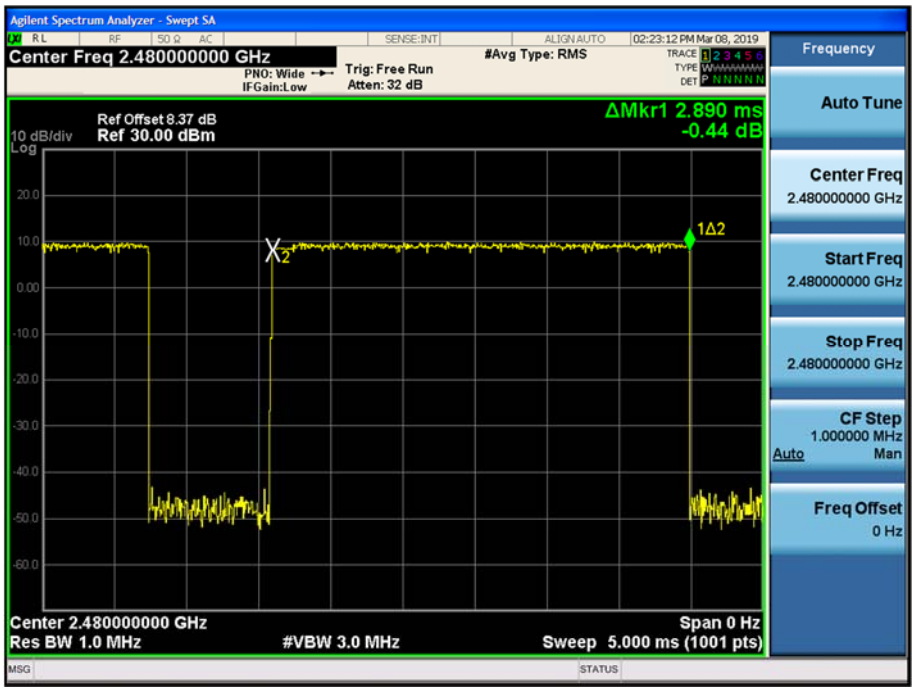


Test Plots (π/4DQPSK)
Dwell Time (CH.39)



Test Plots (π/4DQPSK)

Dwell Time (CH.78)



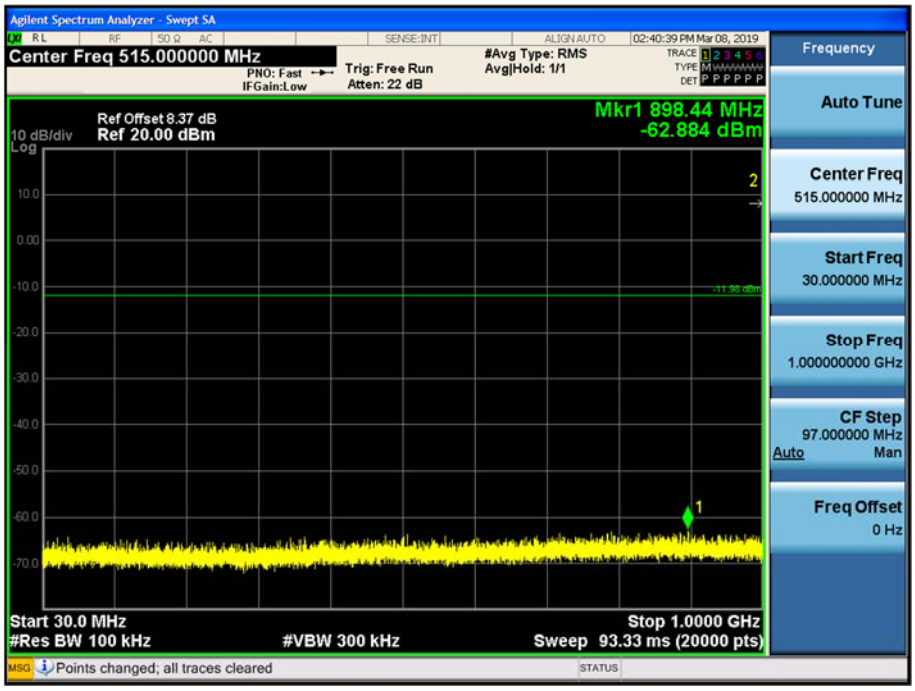
10.6 SPURIOUS EMISSIONS

10.6.1 CONDUCTED SPURIOUS EMISSIONS

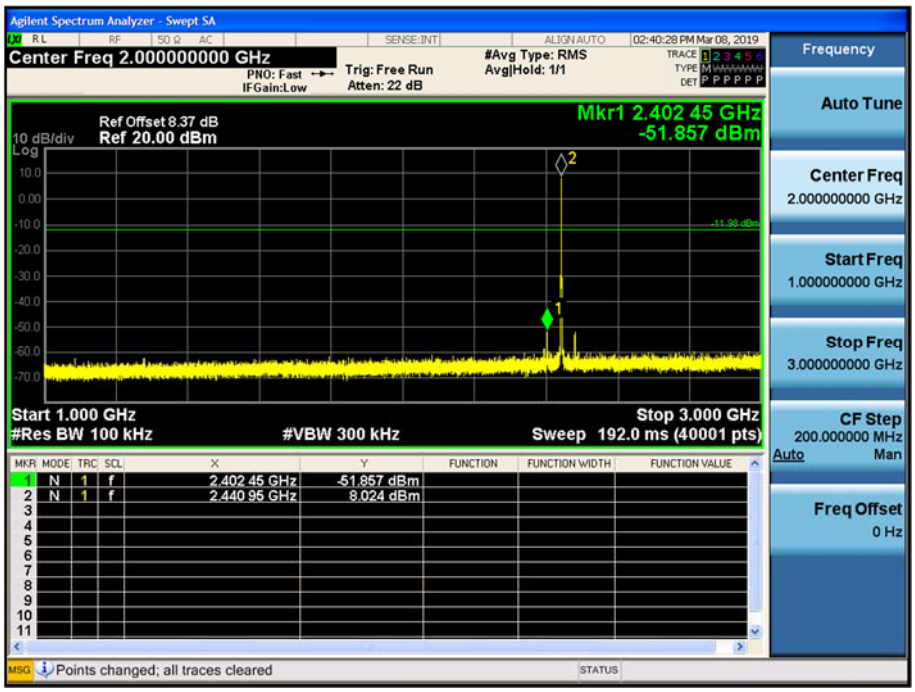
Test Result : please refer to the plot below.

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)

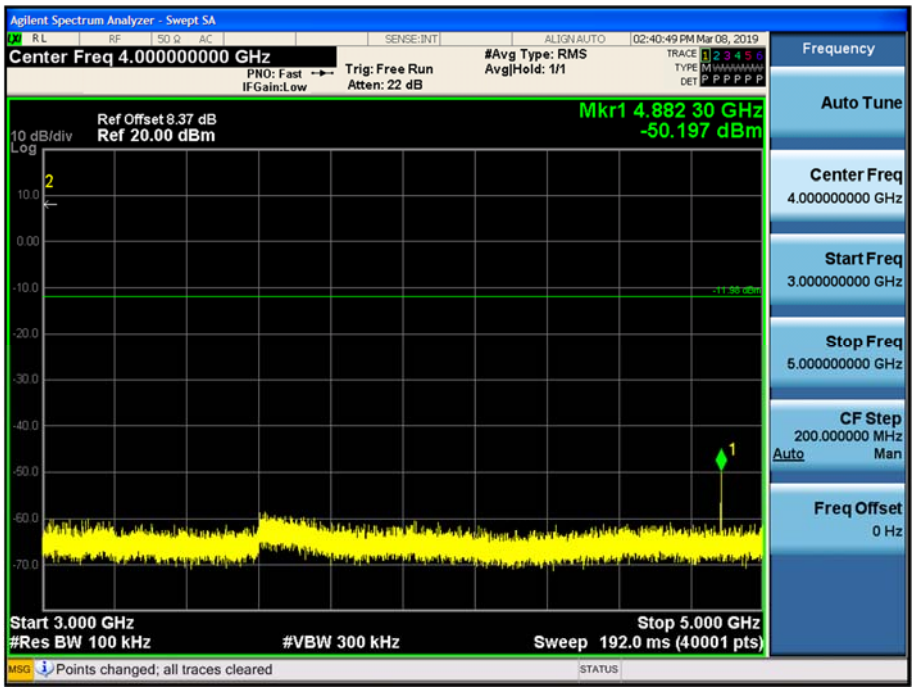


Test Plots (8DPSK)- 1 GHz – 3 GHz
Spurious Emission (CH.39)



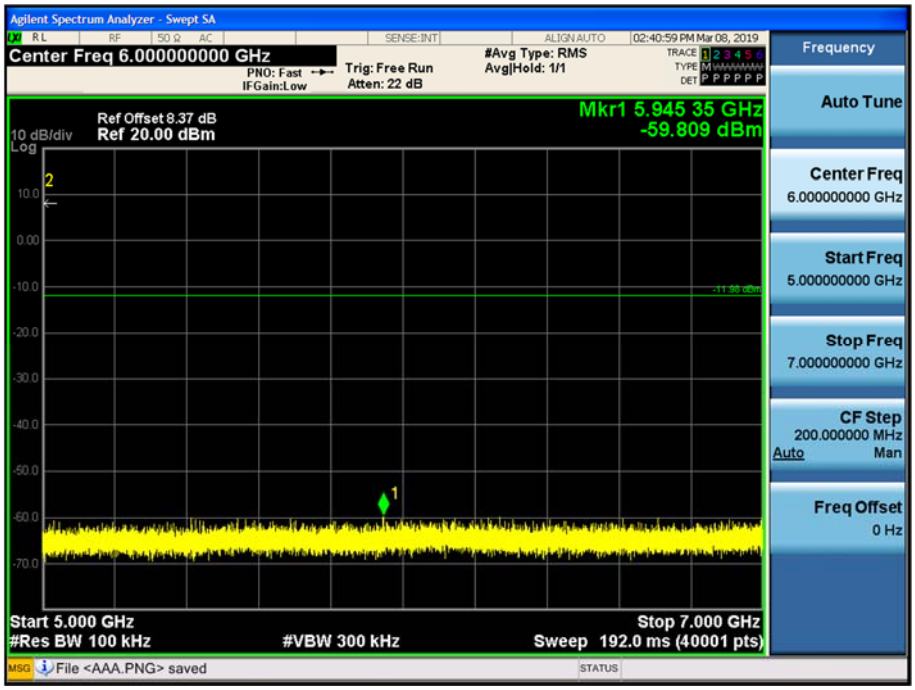
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)

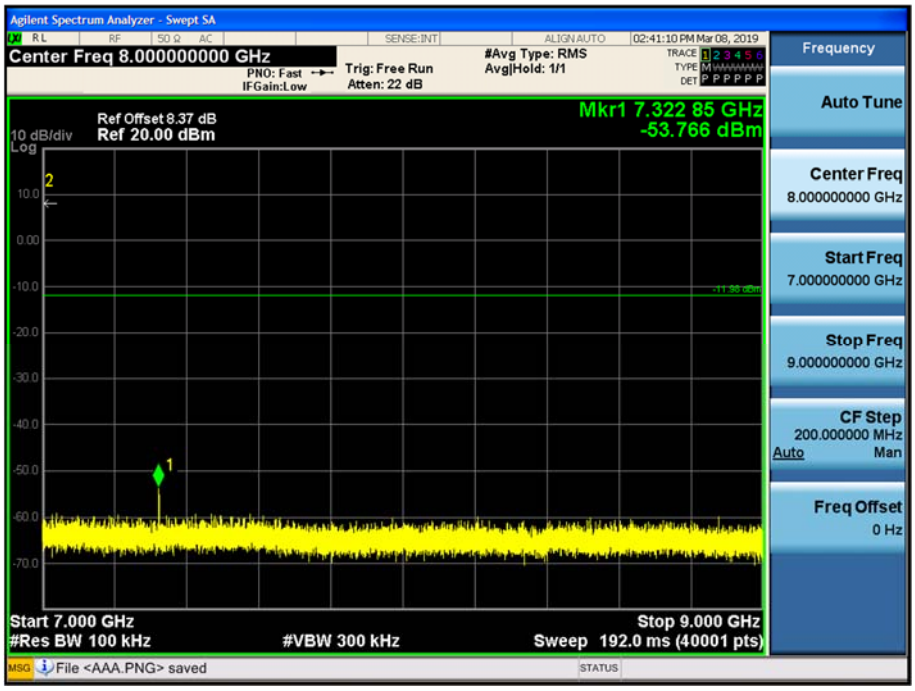


Test Plots (8DPSK)- 5 GHz - 7 GHz

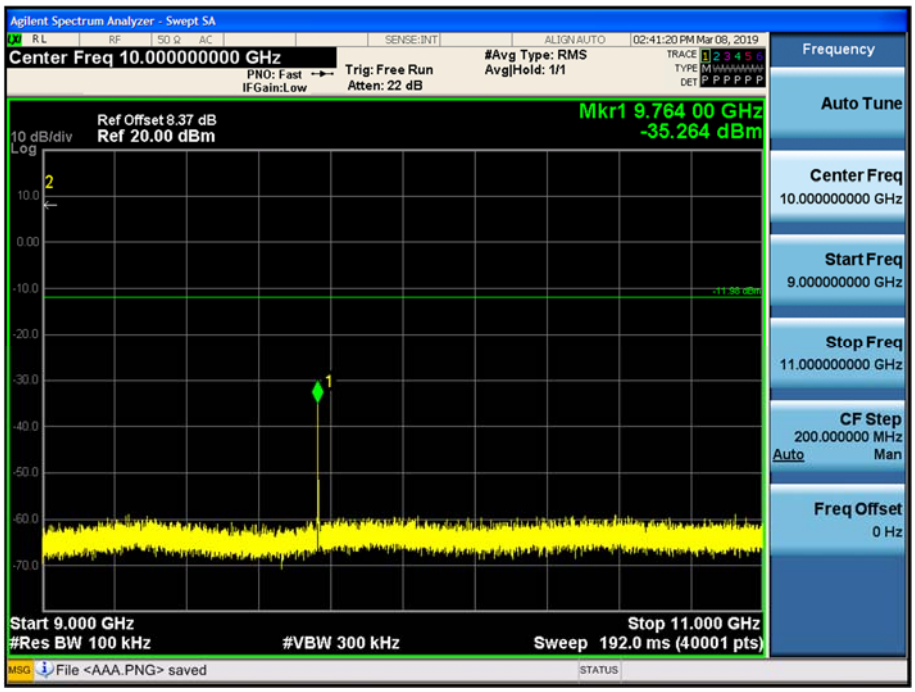
Spurious Emission (CH.39)



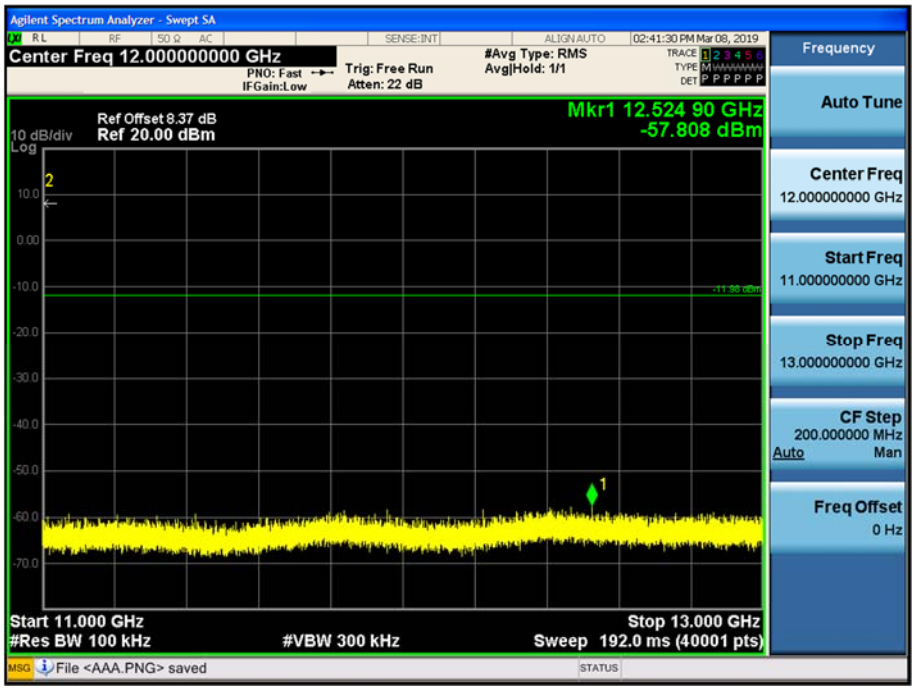
Test Plots(8DPSK)- 7 GHz - 9 GHz
Spurious Emission (CH.39)



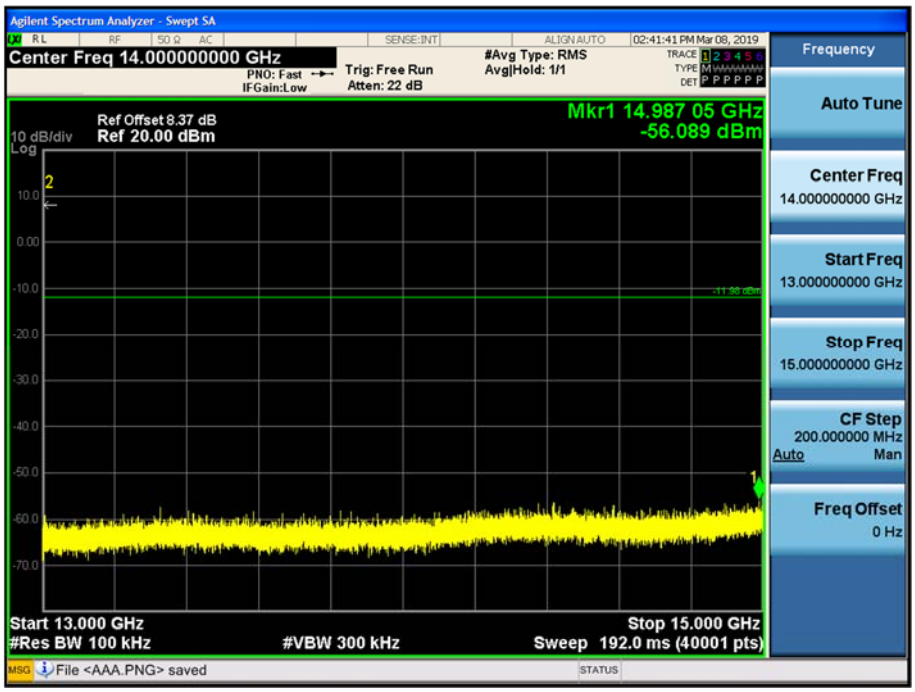
Test Plots(8DPSK)- 9 GHz - 11 GHz
Spurious Emission (CH.39)



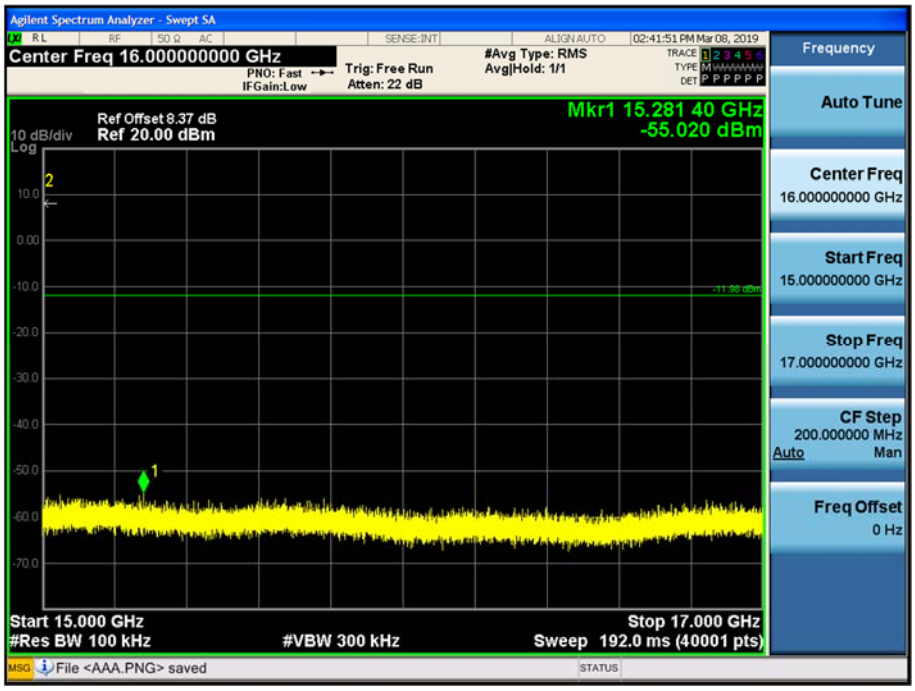
Test Plots(8DPSK) 11 GHz - 13 GHz
Spurious Emission (CH.39)



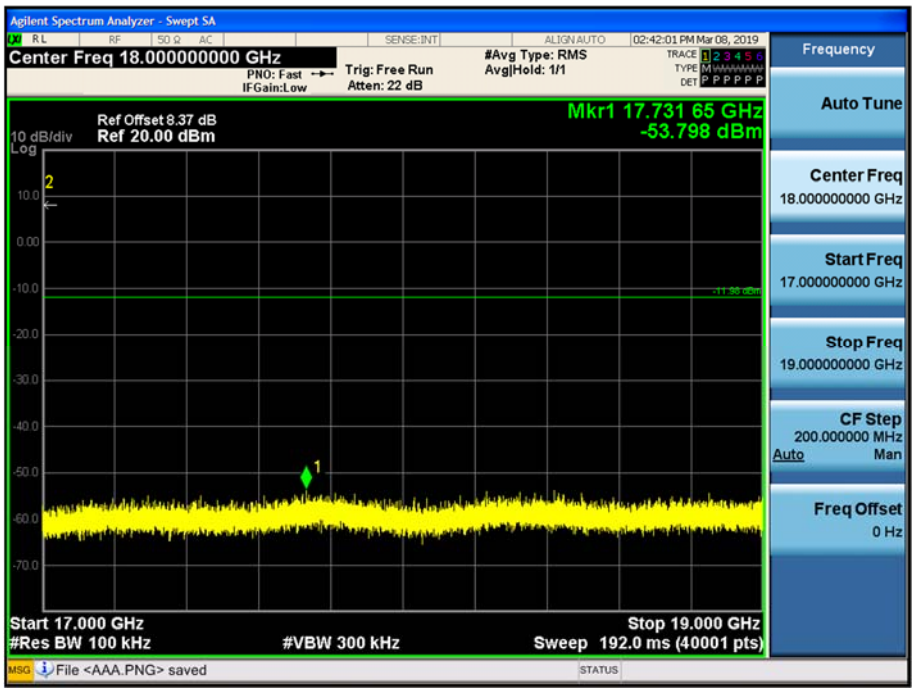
Test Plots (8DPSK)- 13 GHz – 15 GHz
Spurious Emission (CH.39)



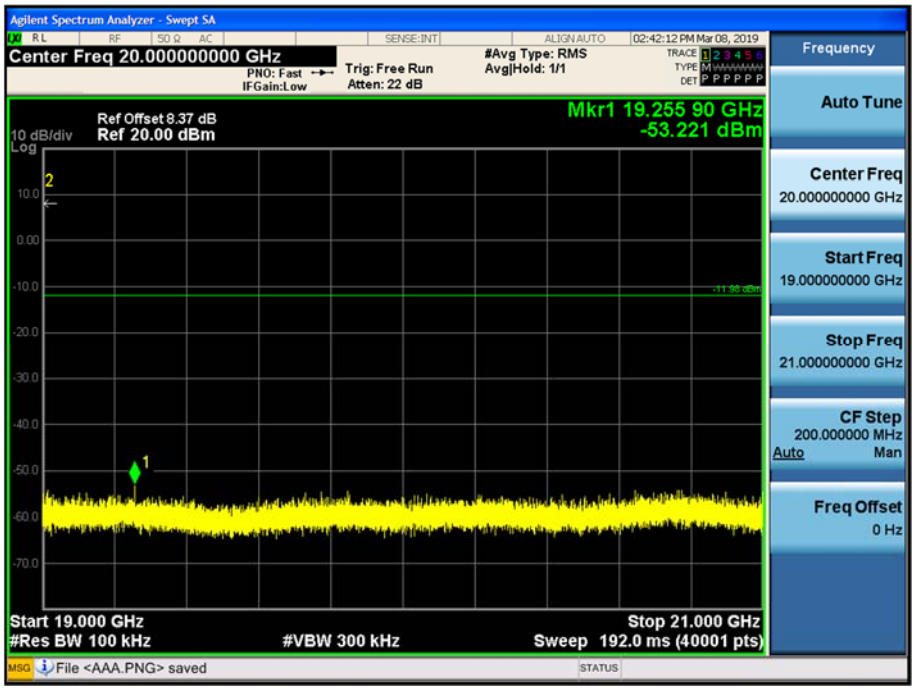
Test Plots(8DPSK)– 15 GHz - 17 GHz
Spurious Emission (CH.39)



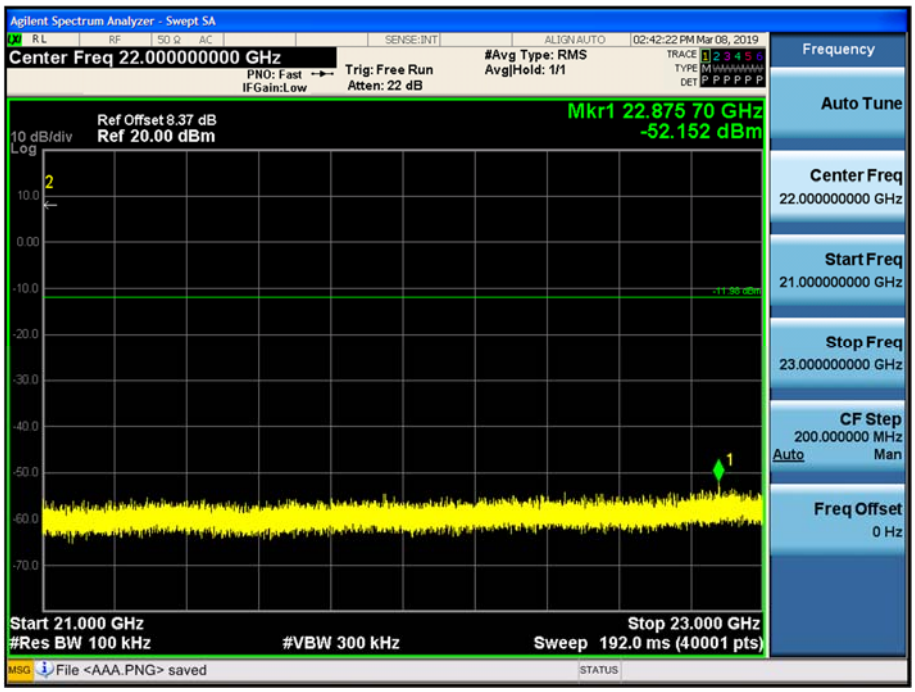
Test Plots(8DPSK)- 17 GHz - 19 GHz
Spurious Emission (CH.39)



Test Plots (8DPSK)- 19 GHz - 21 GHz
Spurious Emission (CH.39)

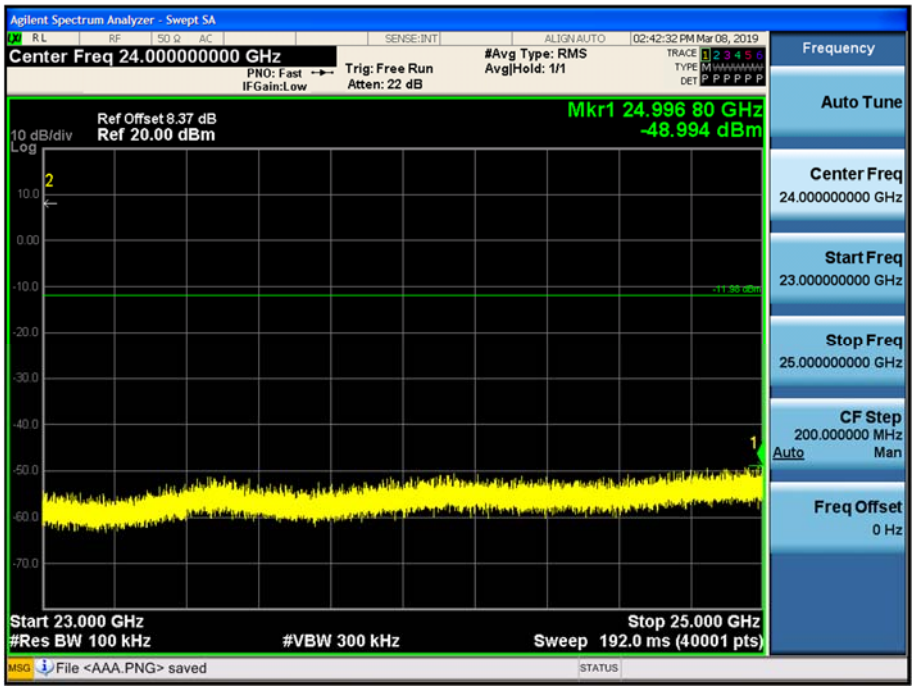


Test Plots (8DPSK)- 21 GHz - 23 GHz
Spurious Emission (CH.39)



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*log (specific distance / test distance) (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.
5. The test results for below 30 MHz is correlated to an open site.
   The result on OFS is about 2 dB higher than semi-anechoic chamber(10 m chamber)

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	48.99	2.17	V	51.16	73.98	22.82	PK
4804	43.69	2.17	V	45.86	53.98	8.12	AV
7206	44.93	8.97	V	53.9	73.98	20.08	PK
7206	33.00	8.97	V	41.97	53.98	12.01	AV
4804	48.58	2.17	H	50.75	73.98	23.23	PK
4804	42.97	2.17	H	45.14	53.98	8.84	AV
7206	44.28	8.97	H	53.25	73.98	20.73	PK
7206	32.71	8.97	H	41.68	53.98	12.30	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	49.23	2.17	V	51.40	73.98	22.58	PK
4804	39.85	2.17	V	42.02	53.98	11.96	AV
7206	43.72	8.97	V	52.69	73.98	21.29	PK
7206	32.04	8.97	V	41.01	53.98	12.97	AV
4804	49.11	2.17	H	51.28	73.98	22.70	PK
4804	39.16	2.17	H	41.33	53.98	12.65	AV
7206	42.95	8.97	H	51.92	73.98	22.06	PK
7206	31.89	8.97	H	40.86	53.98	13.12	AV

Operation Mode: CH Low(π/4DQPSK)

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	49.54	2.17	V	51.71	73.98	22.27	PK
4804	39.67	2.17	V	41.84	53.98	12.14	AV
7206	44.18	8.97	V	53.15	73.98	20.83	PK
7206	31.94	8.97	V	40.91	53.98	13.07	AV
4804	49.43	2.17	H	51.6	73.98	22.38	PK
4804	39.55	2.17	H	41.72	53.98	12.26	AV
7206	44.05	8.97	H	53.02	73.98	20.96	PK
7206	31.76	8.97	H	40.73	53.98	13.25	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	46.31	2.68	V	48.99	73.98	24.99	PK
4882	41.01	2.68	V	43.69	53.98	10.29	AV
7323	42.42	9.03	V	51.45	73.98	22.53	PK
7323	28.92	9.03	V	37.95	53.98	16.03	AV
4882	46.21	2.68	H	48.89	73.98	25.09	PK
4882	40.84	2.68	H	43.52	53.98	10.46	AV
7323	42.14	9.03	H	51.17	73.98	22.81	PK
7323	28.79	9.03	H	37.82	53.98	16.16	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	47.20	2.68	V	49.88	73.98	24.10	PK
4882	37.63	2.68	V	40.31	53.98	13.67	AV
7323	41.50	9.03	V	50.53	73.98	23.45	PK
7323	28.06	9.03	V	37.09	53.98	16.89	AV
4882	46.88	2.68	H	49.56	73.98	24.42	PK
4882	36.86	2.68	H	39.54	53.98	14.44	AV
7323	41.41	9.03	H	50.44	73.98	23.54	PK
7323	27.77	9.03	H	36.8	53.98	17.18	AV

Operation Mode: CH Mid(π/4DQPSK)

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	46.90	2.68	V	49.58	73.98	24.40	PK
4882	37.56	2.68	V	40.24	53.98	13.74	AV
7323	40.91	9.03	V	49.94	73.98	24.04	PK
7323	28.07	9.03	V	37.1	53.98	16.88	AV
4882	45.87	2.68	H	48.55	73.98	25.43	PK
4882	37.12	2.68	H	39.8	53.98	14.18	AV
7323	40.50	9.03	H	49.53	73.98	24.45	PK
7323	27.96	9.03	H	36.99	53.98	16.99	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	46.91	1.54	V	48.45	73.98	25.53	PK
4960	42.29	1.54	V	43.83	53.98	10.15	AV
7440	41.05	9.82	V	50.87	73.98	23.11	PK
7440	27.30	9.82	V	37.12	53.98	16.86	AV
4960	46.54	1.54	H	48.08	73.98	25.90	PK
4960	42.11	1.54	H	43.65	53.98	10.33	AV
7440	40.98	9.82	H	50.8	73.98	23.18	PK
7440	27.06	9.82	H	36.88	53.98	17.10	AV

Operation Mode: CH High(8DPSK)

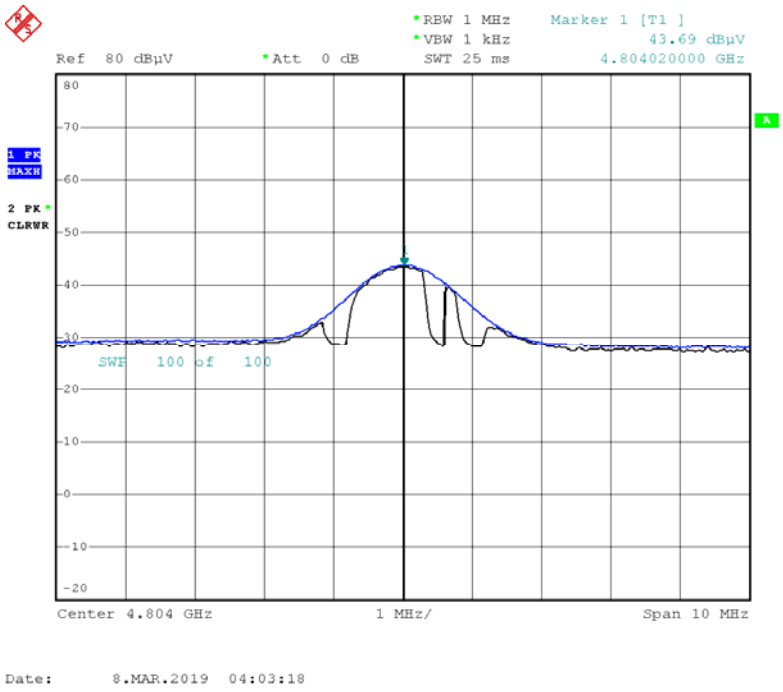
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	47.19	1.54	V	48.73	73.98	25.25	PK
4960	37.82	1.54	V	39.36	53.98	14.62	AV
7440	41.39	9.82	V	51.21	73.98	22.77	PK
7440	26.75	9.82	V	36.57	53.98	17.41	AV
4960	46.36	1.54	H	47.9	73.98	26.08	PK
4960	37.52	1.54	H	39.06	53.98	14.92	AV
7440	41.14	9.82	H	50.96	73.98	23.02	PK
7440	26.70	9.82	H	36.52	53.98	17.46	AV

Operation Mode: CH High (π/4DQPSK)

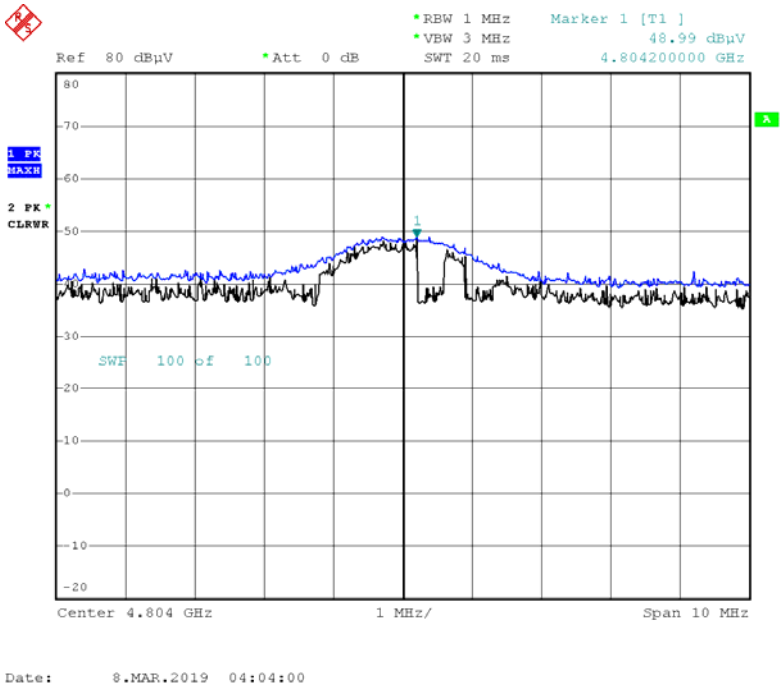
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	47.03	1.54	V	48.57	73.98	25.41	PK
4960	37.81	1.54	V	39.35	53.98	14.63	AV
7440	41.77	9.82	V	51.59	73.98	22.39	PK
7440	26.90	9.82	V	36.72	53.98	17.26	AV
4960	46.89	1.54	H	48.43	73.98	25.55	PK
4960	37.58	1.54	H	39.12	53.98	14.86	AV
7440	41.64	9.82	H	51.46	73.98	22.52	PK
7440	26.78	9.82	H	36.6	53.98	17.38	AV

RESULT PLOTS (Worst case : X-V)

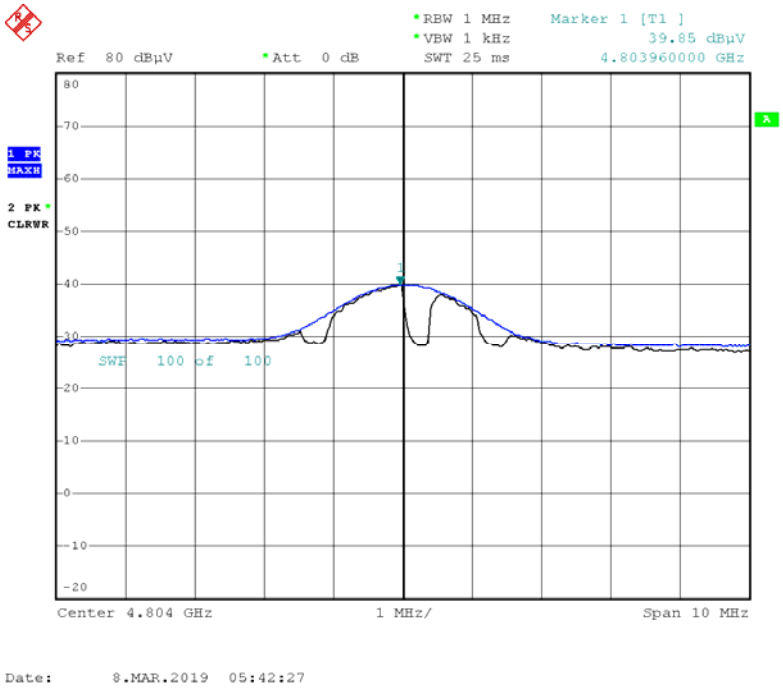
Radiated Spurious Emissions plot – Average Reading (GFSK, Ch.0 2nd Harmonic)



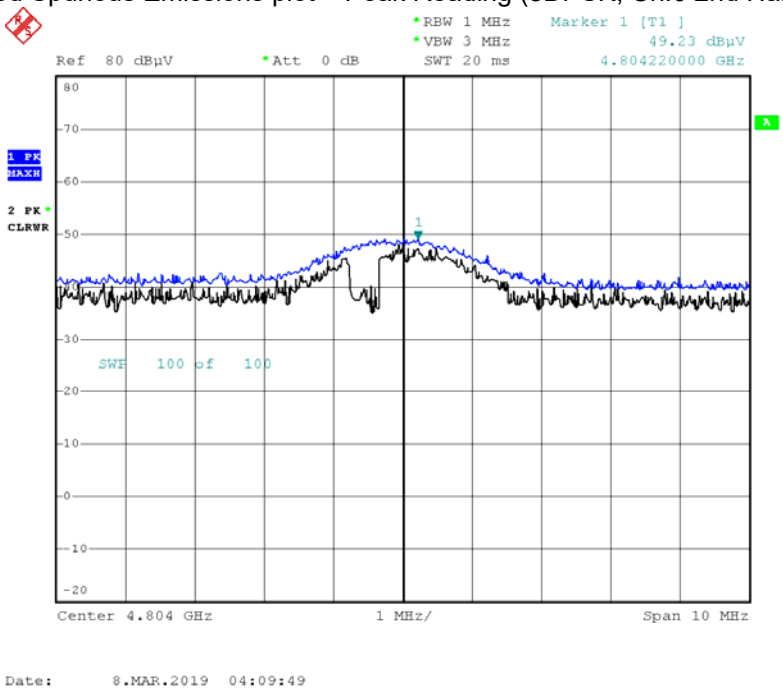
Radiated Spurious Emissions plot – Peak Reading (GFSK, Ch.0 2nd Harmonic)



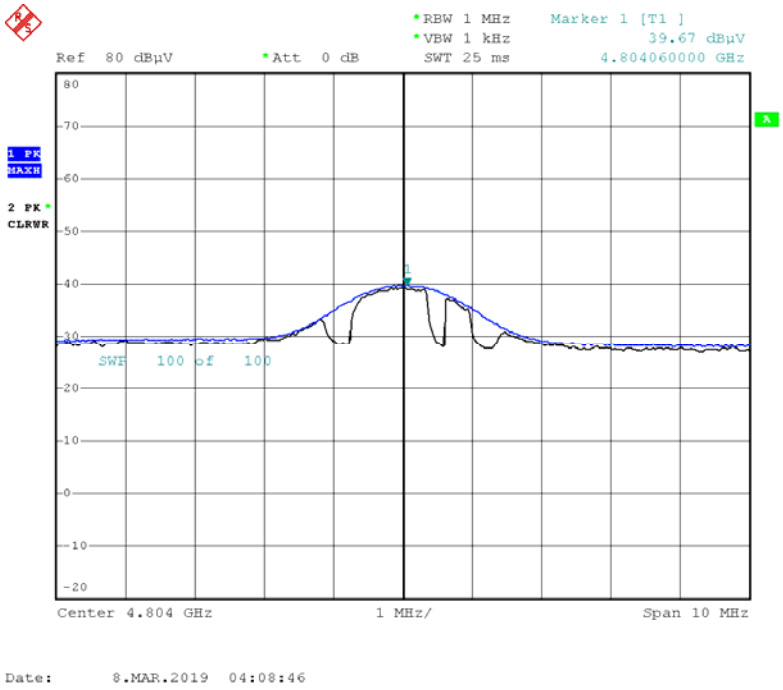
Radiated Spurious Emissions plot – Average Reading (8DPSK, Ch.0 2nd Harmonic)



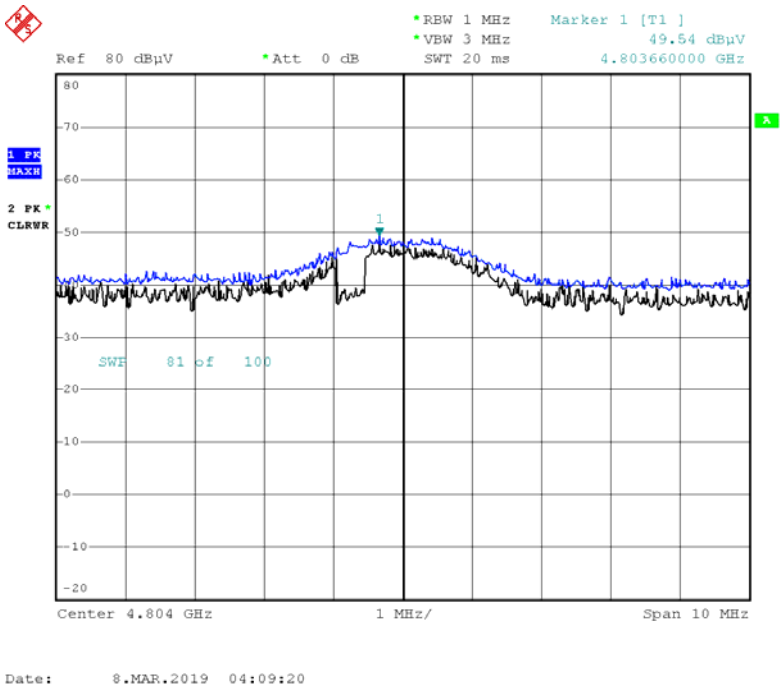
Radiated Spurious Emissions plot – Peak Reading (8DPSK, Ch.0 2nd Harmonic)



Radiated Spurious Emissions plot – Average Reading (π/4DQPSK, Ch.0 2nd Harmonic)



Radiated Spurious Emissions plot – Peak Reading (π/4DQPSK, Ch.0 2nd Harmonic)



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]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	42.84	0.22	H	0	43.06	73.98	30.92	PK
2390.0	29.72	0.22	H	-24.73	5.21	53.98	48.77	AV
2390.0	42.72	0.22	V	0	42.94	73.98	31.04	PK
2390.0	29.58	0.22	V	-24.73	5.07	53.98	48.91	AV
2483.5	55.03	0.65	H	0	55.68	73.98	18.30	PK
2483.5	52.75	0.65	H	-24.73	28.67	53.98	25.31	AV
2483.5	54.69	0.65	V	0	55.34	73.98	18.64	PK
2483.5	51.96	0.65	V	-24.73	27.88	53.98	26.10	AV

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

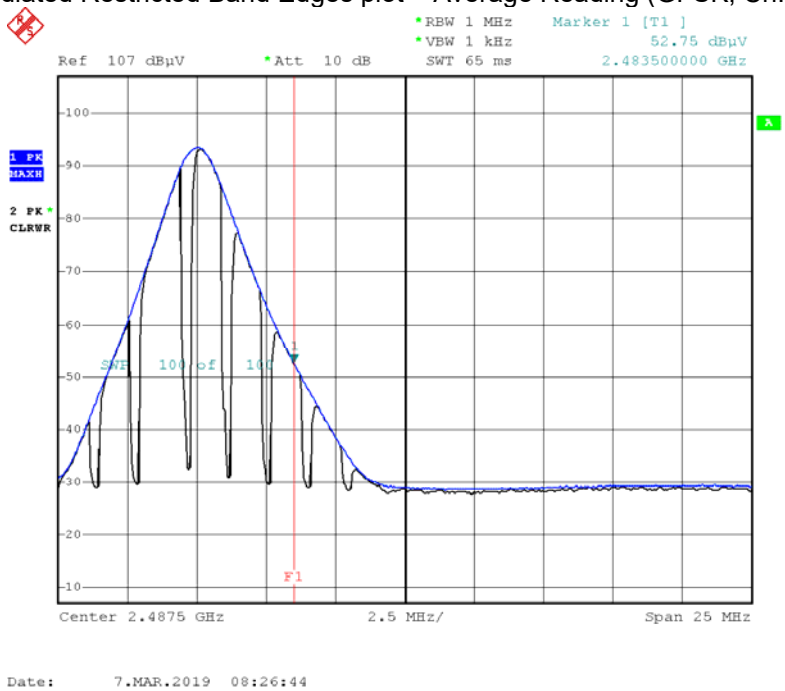
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	43.84	0.22	H	0	44.06	73.98	29.92	PK
2390.0	29.69	0.22	H	-24.73	5.18	53.98	48.80	AV
2390.0	42.97	0.22	V	0	43.19	73.98	30.79	PK
2390.0	26.58	0.22	V	-24.73	2.07	53.98	51.91	AV
2483.5	56.98	0.65	H	0	57.63	73.98	16.35	PK
2483.5	51.58	0.65	H	-24.73	27.50	53.98	26.48	AV
2483.5	56.65	0.65	V	0	57.30	73.98	16.68	PK
2483.5	51.42	0.65	V	-24.73	27.34	53.98	26.64	AV

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

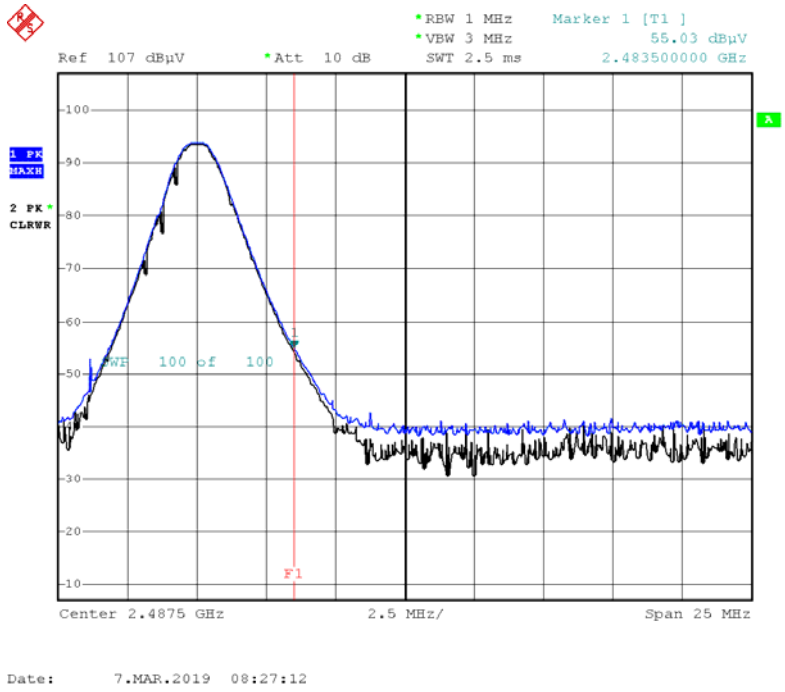
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	41.75	0.22	H	0	41.97	73.98	32.01	PK
2390.0	29.69	0.22	H	-24.73	5.18	53.98	48.80	AV
2390.0	41.71	0.22	V	0	41.93	73.98	32.05	PK
2390.0	29.48	0.22	V	-24.73	4.97	53.98	49.01	AV
2483.5	56.77	0.65	H	0	57.42	73.98	16.56	PK
2483.5	51.50	0.65	H	-24.73	27.42	53.98	26.56	AV
2483.5	55.88	0.65	V	0	56.53	73.98	17.45	PK
2483.5	51.09	0.65	V	-24.73	27.01	53.98	26.97	AV

RESULT PLOTS (Worst case : Y-H)

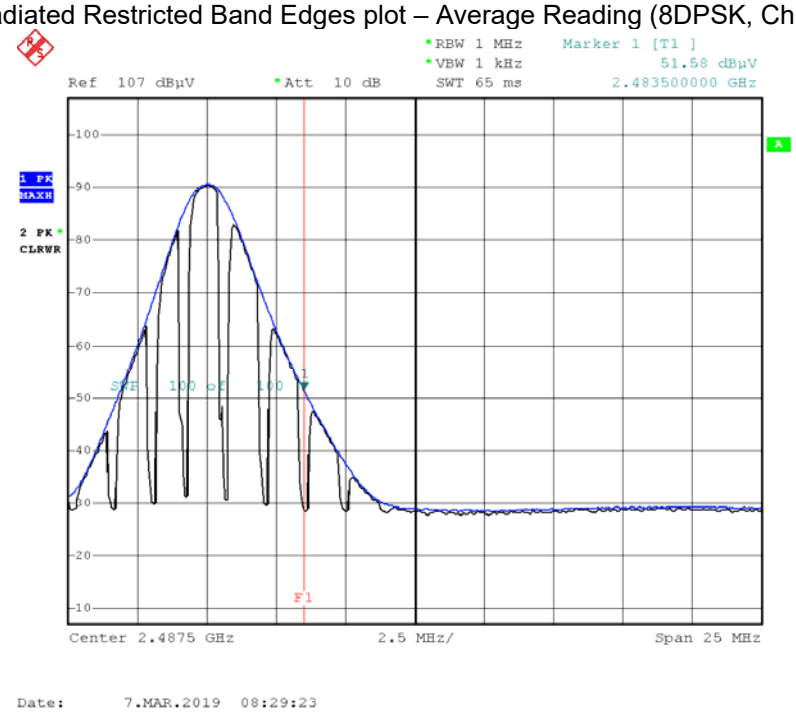
Radiated Restricted Band Edges plot – Average Reading (GFSK, Ch.78)



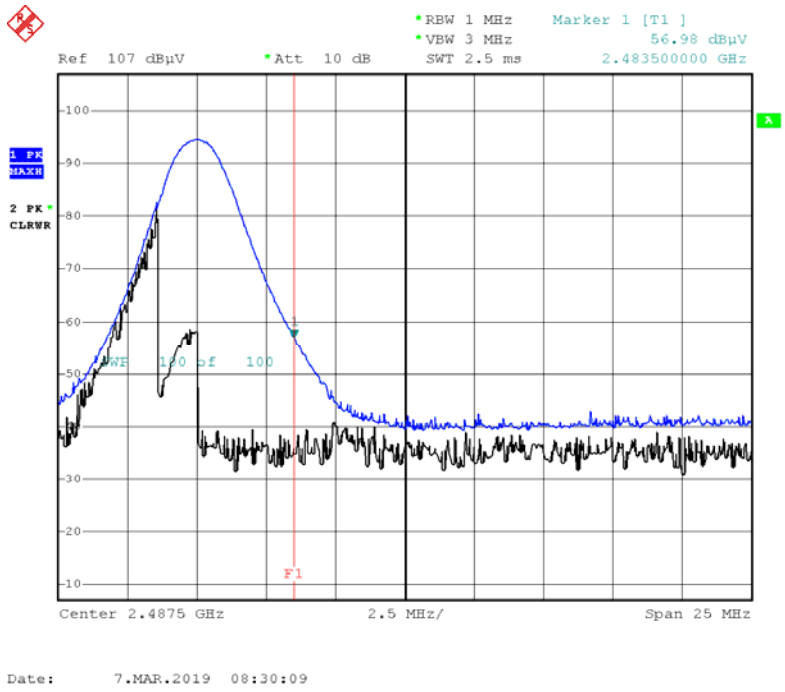
Radiated Restricted Band Edges plot – Peak Reading (GFSK, Ch.78)



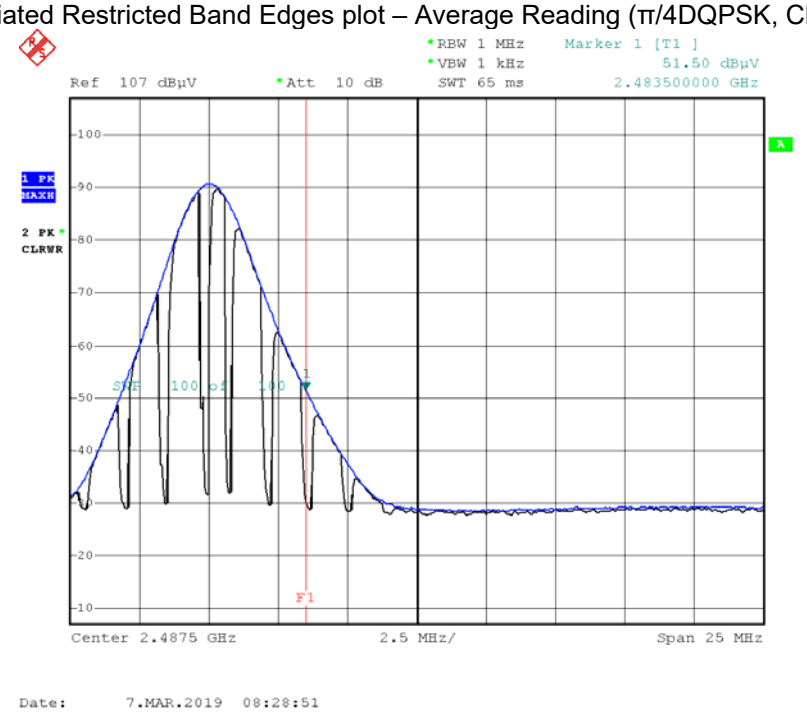
Radiated Restricted Band Edges plot – Average Reading (8DPSK, Ch.78)



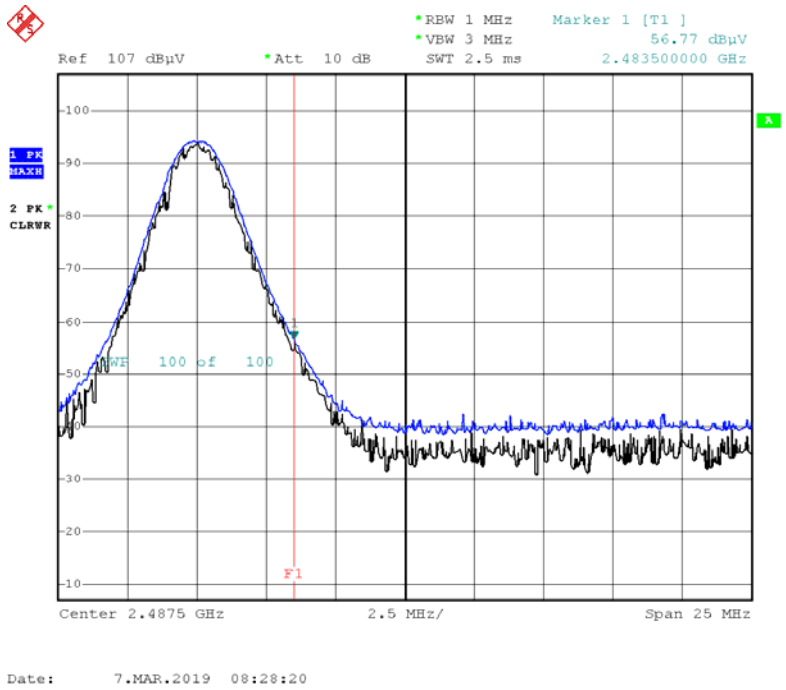
Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78)



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



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



Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

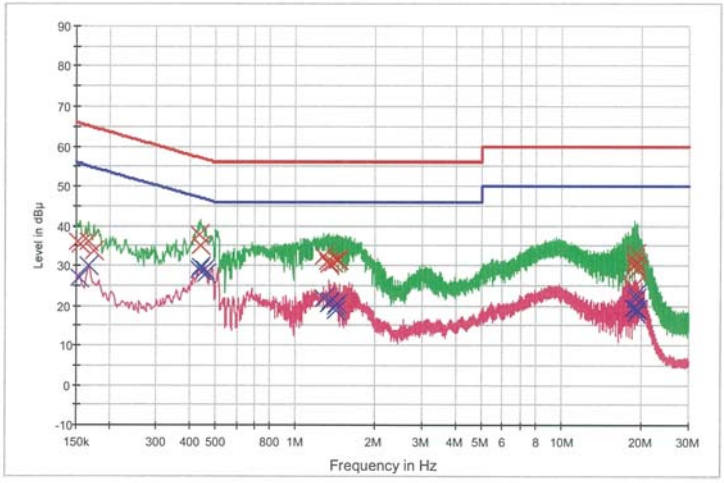
Test 1 / 2

HCT TEST Report

Common Information

EUT:	IF-W522T
Manufacturer:	Infomark Co.,Ltd.
Test Site:	SHIELD ROOM
Operating Conditions:	BT_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	36.0	9.000	Off	L1	9.7	29.9	65.9
0.156000	35.6	9.000	Off	L1	9.7	30.1	65.7
0.166000	36.0	9.000	Off	L1	9.7	29.2	65.2
0.174000	33.6	9.000	Off	L1	9.7	31.1	64.8
0.434000	37.7	9.000	Off	L1	9.7	19.5	57.2
0.438000	35.1	9.000	Off	L1	9.7	22.0	57.1
1.272000	32.2	9.000	Off	L1	9.9	23.8	56.0
1.326000	31.0	9.000	Off	L1	9.9	25.0	56.0
1.332000	30.3	9.000	Off	L1	9.9	25.7	56.0
1.382000	30.7	9.000	Off	L1	9.9	25.3	56.0
1.430000	31.3	9.000	Off	L1	9.9	24.7	56.0
1.454000	31.4	9.000	Off	L1	9.9	24.6	56.0
18.478000	24.5	9.000	Off	L1	10.5	35.5	60.0
18.846000	31.3	9.000	Off	L1	10.6	28.7	60.0
18.852000	29.9	9.000	Off	L1	10.6	30.1	60.0
18.910000	33.1	9.000	Off	L1	10.6	26.9	60.0
19.116000	30.8	9.000	Off	L1	10.6	29.2	60.0
19.240000	29.1	9.000	Off	L1	10.6	30.9	60.0

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Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	27.0	9.000	Off	L1	9.7	28.8	55.8
0.166000	29.9	9.000	Off	L1	9.7	25.3	55.2
0.434000	28.9	9.000	Off	L1	9.7	18.3	47.2
0.442000	29.7	9.000	Off	L1	9.7	17.3	47.0
0.454000	28.9	9.000	Off	L1	9.8	17.9	46.8
0.460000	27.9	9.000	Off	L1	9.8	18.8	46.7
1.272000	21.9	9.000	Off	L1	9.9	24.1	46.0
1.332000	20.4	9.000	Off	L1	9.9	25.6	46.0
1.350000	21.2	9.000	Off	L1	9.9	24.8	46.0
1.420000	18.7	9.000	Off	L1	9.9	27.3	46.0
1.424000	19.8	9.000	Off	L1	9.9	26.2	46.0
1.430000	20.6	9.000	Off	L1	9.9	25.4	46.0
18.486000	19.6	9.000	Off	L1	10.5	30.4	50.0
18.852000	19.4	9.000	Off	L1	10.6	30.6	50.0
18.910000	18.2	9.000	Off	L1	10.6	31.8	50.0
18.968000	22.7	9.000	Off	L1	10.6	27.3	50.0
19.106000	21.7	9.000	Off	L1	10.6	28.3	50.0
19.240000	19.0	9.000	Off	L1	10.6	31.0	50.0

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Conducted Emissions (Line 2)

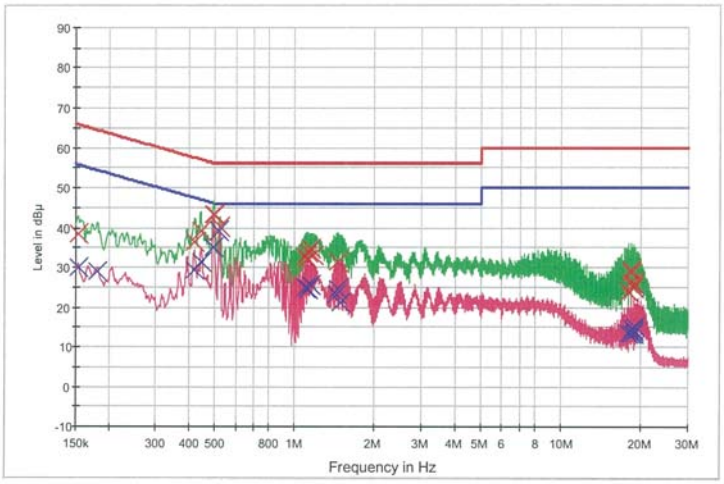
Test 1 / 2

HCT TEST Report

Common Information

EUT:	IF-W522T
Manufacturer:	Infomark Co.,Ltd.
Test Site:	SHIELD ROOM
Operating Conditions:	BT_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	38.5	9.000	Off	N	9.8	27.3	65.8
0.420000	36.5	9.000	Off	N	9.9	20.9	57.4
0.444000	39.3	9.000	Off	N	9.9	17.7	57.0
0.494000	43.4	9.000	Off	N	9.9	12.7	56.1
0.500000	43.3	9.000	Off	N	9.9	12.7	56.0
0.522000	40.1	9.000	Off	N	9.9	15.9	56.0
1.092000	32.8	9.000	Off	N	10.0	23.2	56.0
1.114000	32.1	9.000	Off	N	10.0	23.9	56.0
1.120000	33.7	9.000	Off	N	10.0	22.3	56.0
1.144000	34.6	9.000	Off	N	10.0	21.4	56.0
1.170000	33.0	9.000	Off	N	10.0	23.0	56.0
1.458000	31.4	9.000	Off	N	10.1	24.6	56.0
17.926000	23.8	9.000	Off	N	10.8	36.2	60.0
18.322000	26.2	9.000	Off	N	10.8	33.8	60.0
18.326000	29.4	9.000	Off	N	10.8	30.6	60.0
18.352000	28.5	9.000	Off	N	10.8	31.5	60.0
18.692000	24.8	9.000	Off	N	10.8	35.2	60.0
18.772000	25.9	9.000	Off	N	10.8	34.1	60.0

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Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	30.0	9.000	Off	N	9.8	25.7	55.8
0.180000	28.8	9.000	Off	N	9.8	25.6	54.5
0.418000	29.3	9.000	Off	N	9.9	18.2	47.5
0.444000	31.5	9.000	Off	N	9.9	15.5	47.0
0.496000	35.1	9.000	Off	N	9.9	10.9	46.1
0.520000	39.2	9.000	Off	N	9.9	6.8	46.0
1.092000	24.8	9.000	Off	N	10.0	21.2	46.0
1.118000	24.6	9.000	Off	N	10.0	21.4	46.0
1.144000	25.4	9.000	Off	N	10.0	20.6	46.0
1.436000	23.1	9.000	Off	N	10.1	22.9	46.0
1.458000	24.7	9.000	Off	N	10.1	21.3	46.0
1.484000	21.3	9.000	Off	N	10.1	24.7	46.0
17.964000	13.3	9.000	Off	N	10.8	36.7	50.0
18.326000	13.2	9.000	Off	N	10.8	36.8	50.0
18.670000	14.8	9.000	Off	N	10.8	35.2	50.0
18.692000	14.2	9.000	Off	N	10.8	35.8	50.0
18.772000	13.3	9.000	Off	N	10.8	36.7	50.0
19.030000	15.2	9.000	Off	N	10.8	34.8	50.0

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11 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	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/20/2018	Annual	MY49431210
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/07/2018	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	05/17/2018	Annual	100422

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

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
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/09/2018	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	11/21/2017	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/19/2018	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/19/2018	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	01/03/2019	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	01/03/2019	Annual	5
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)	06/07/2018	Annual	2
WEINSCHEL	56-10 / Attenuator(10 dB)	10/10/2018	Annual	72316
CERNEX	CBLU1183540B-01/Broadband Bench Top LNA	01/03/2019	Annual	28549
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	01/03/2019	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/27/2018	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.

12 ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1903-FC052-P