

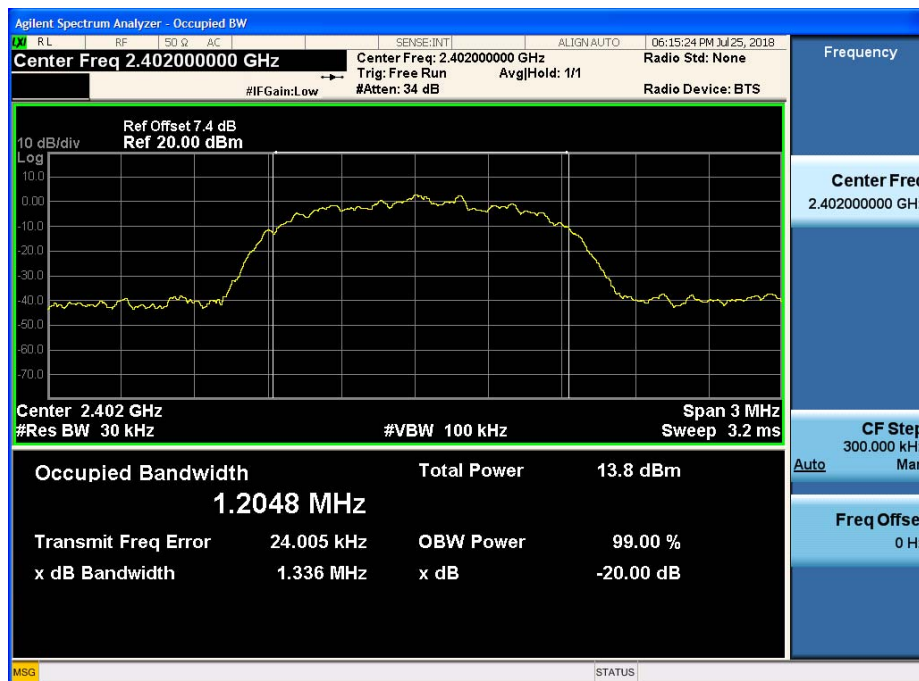
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



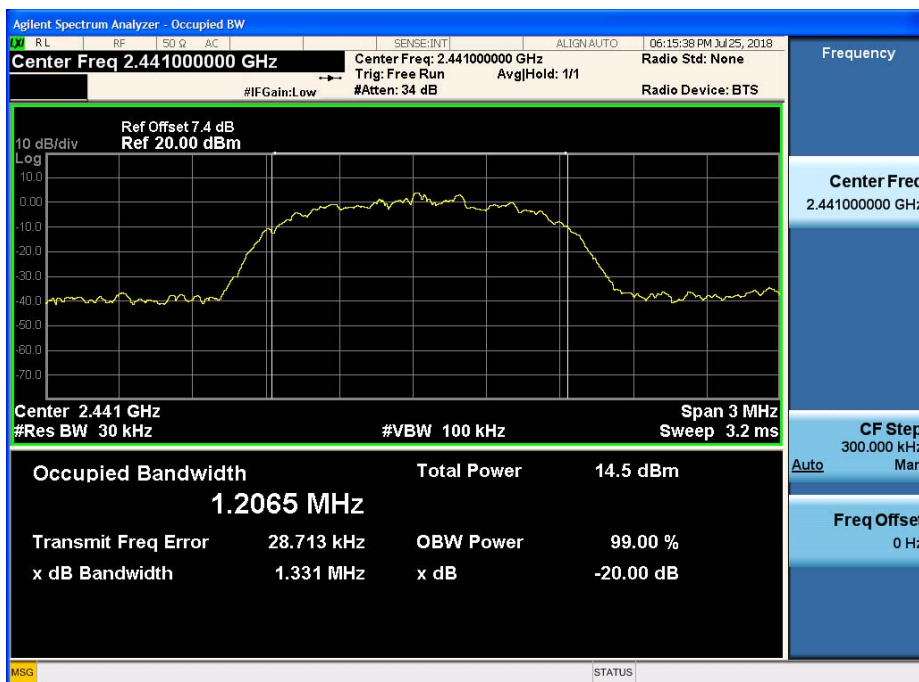
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



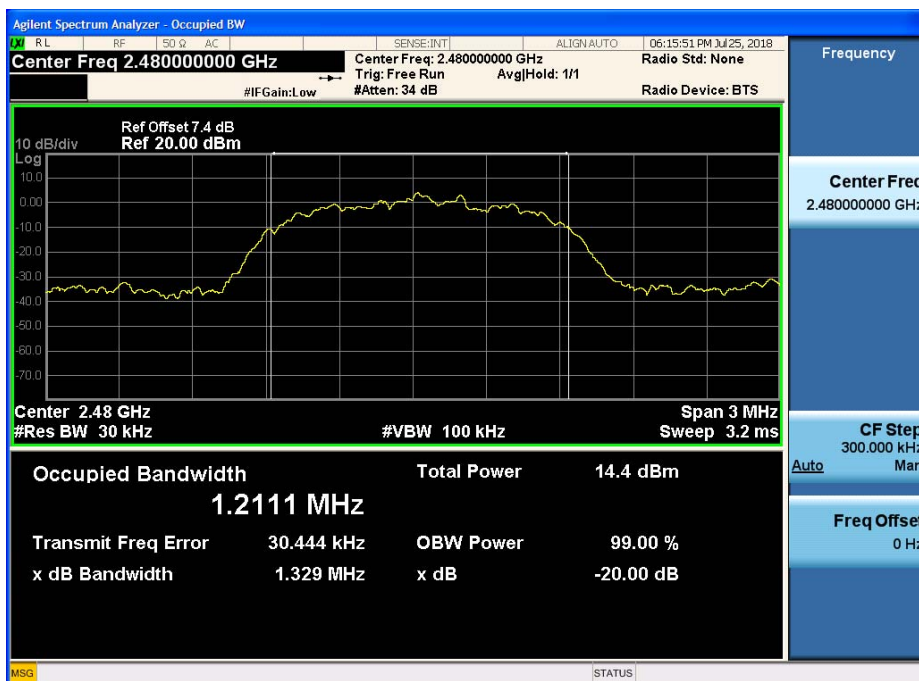
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



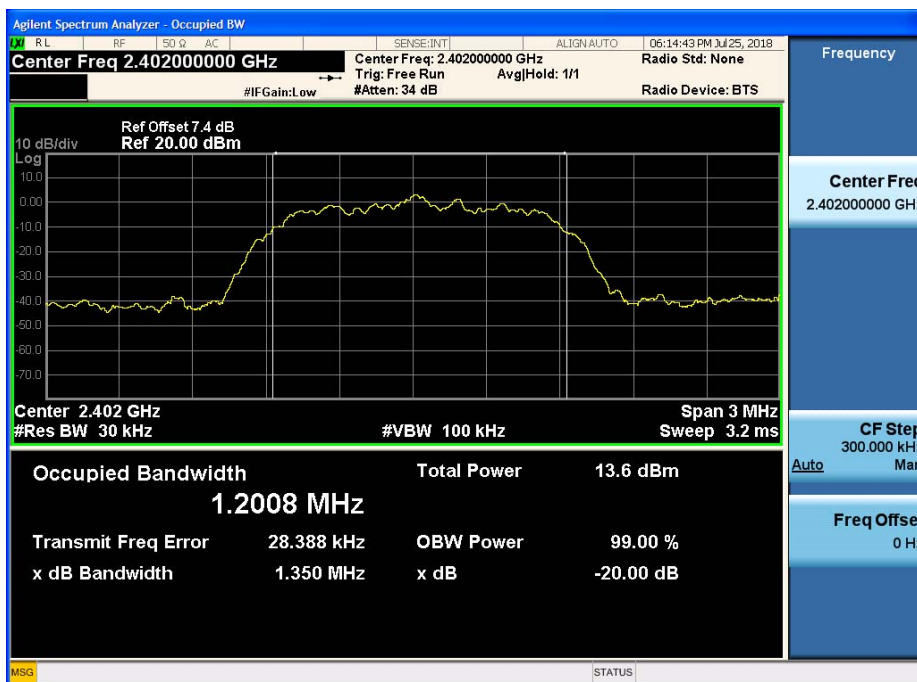
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



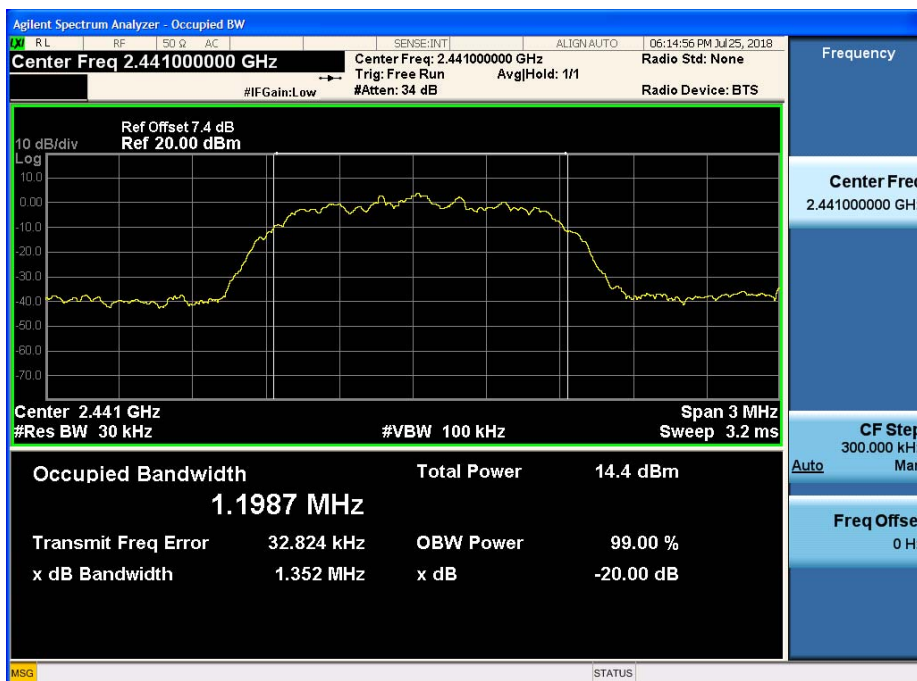
Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



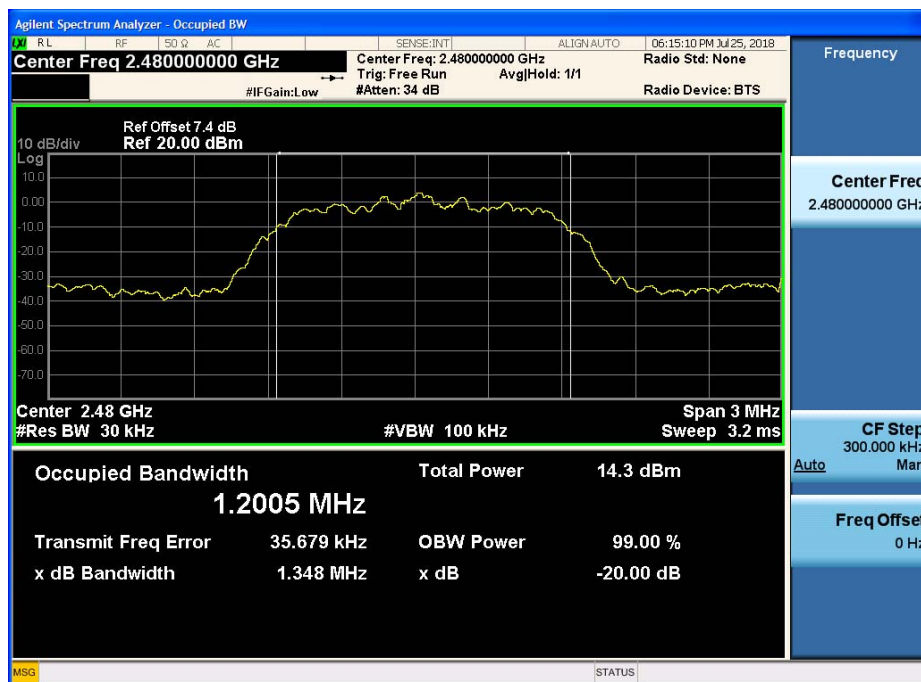
Test Plots ($\pi/4$ DQPSK)

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

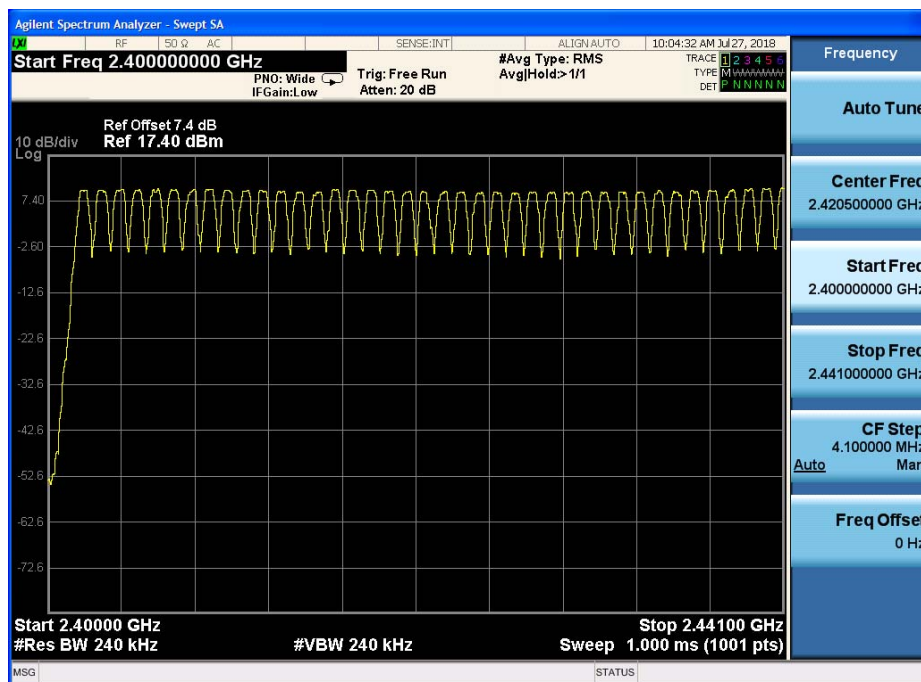
Result (No. of CH)			Limit
GFSK	8DPSK	$\pi/4$ DQPSK	
79	79	79	>15

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)



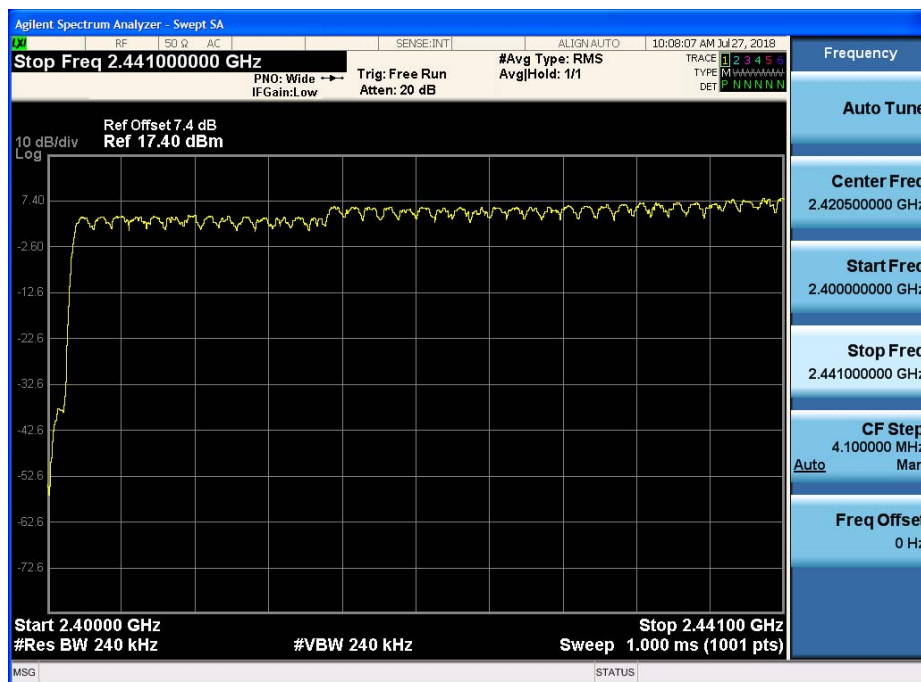
Test Plots (GFSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



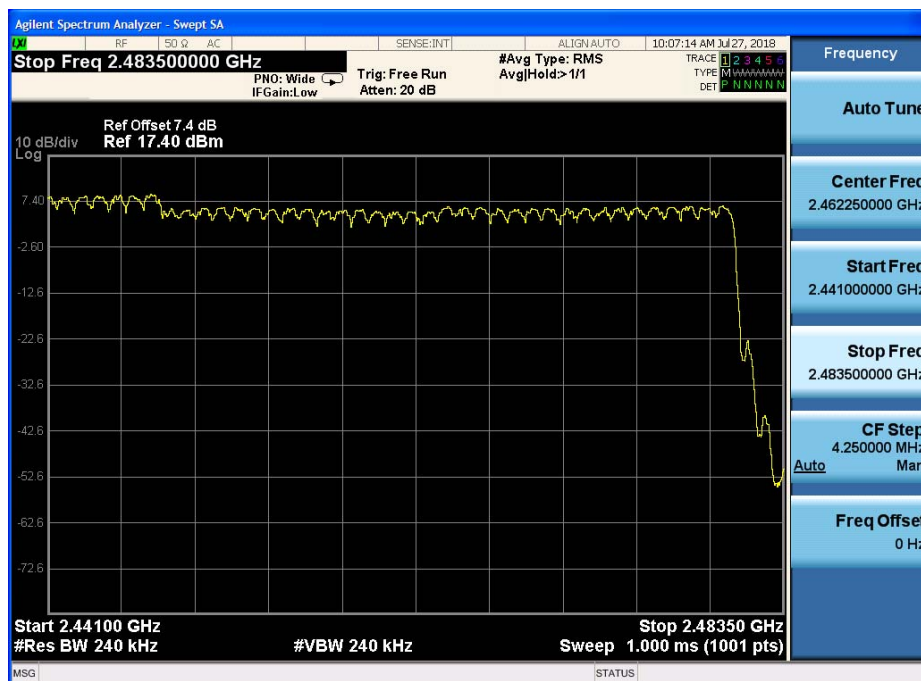
Test Plots (8DPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



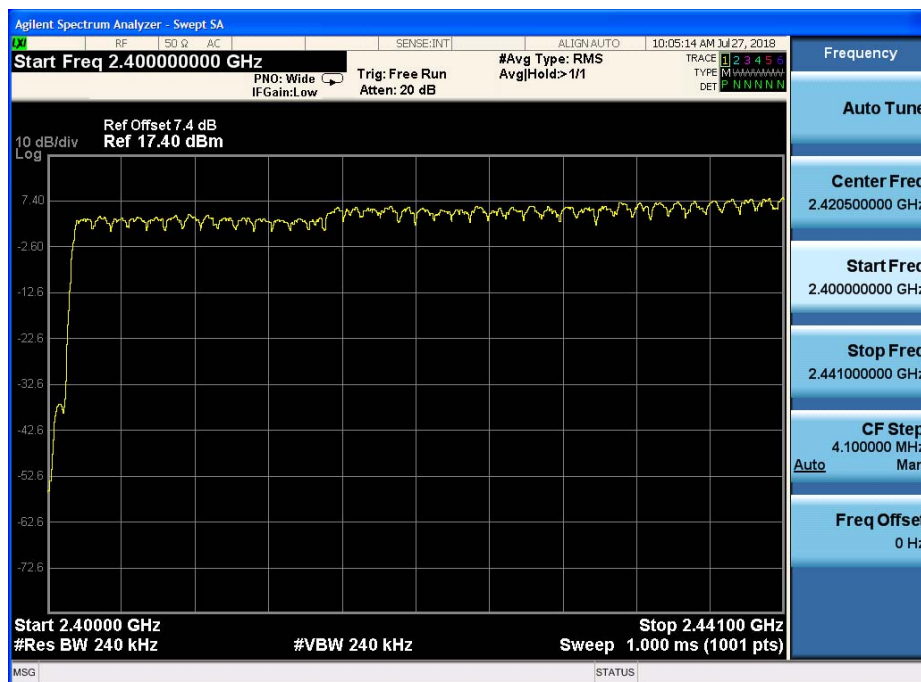
Test Plots (8DPSK)

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)



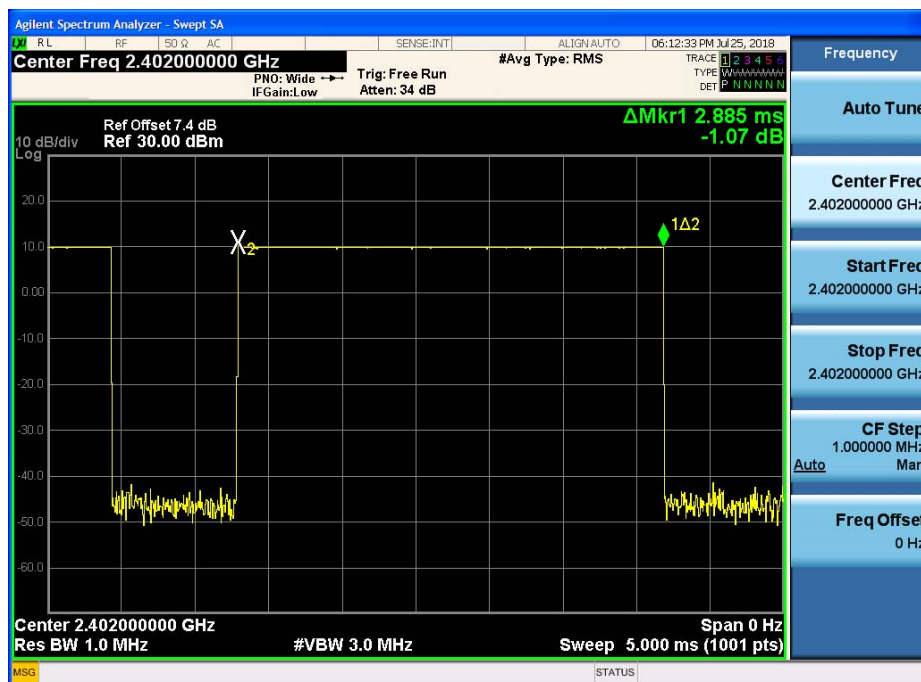
10.5 TIME OF OCCUPANCY (DWELL TIME)

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

	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	308.27	308.27	308.27	31.6	
	High	308.27	308.27	308.27	31.6	

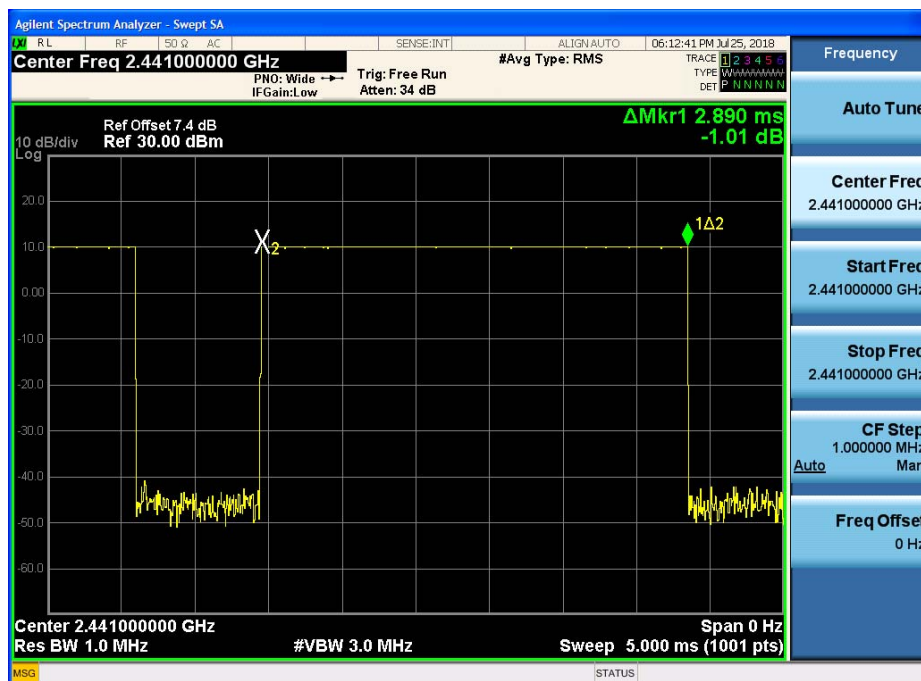
Test Plots (GFSK)

Dwell Time (CH.0)



Test Plots (GFSK)

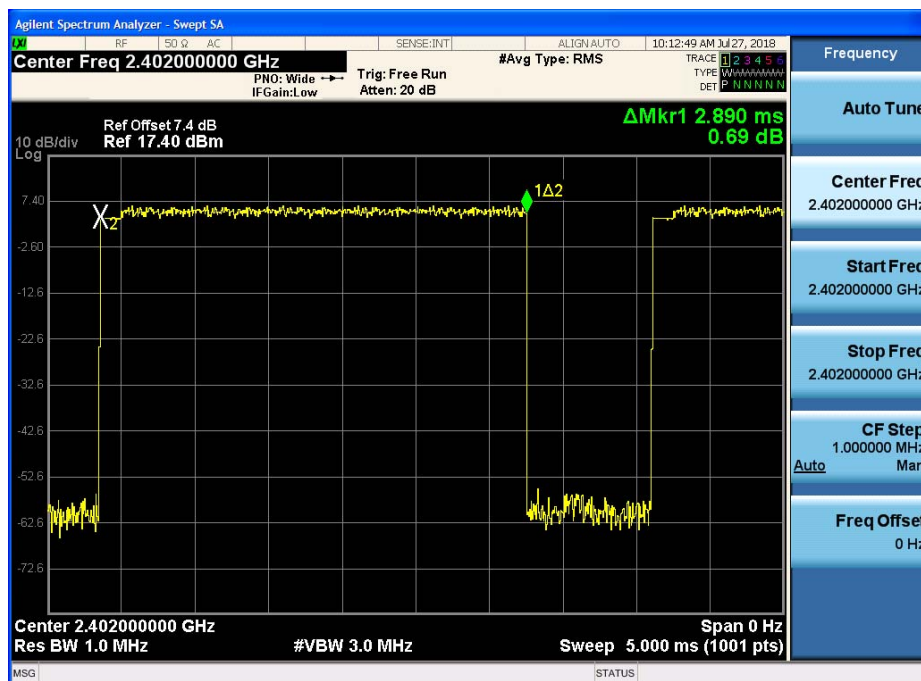
Dwell Time (CH.39)



Test Plots (GFSK)
Dwell Time (CH.78)

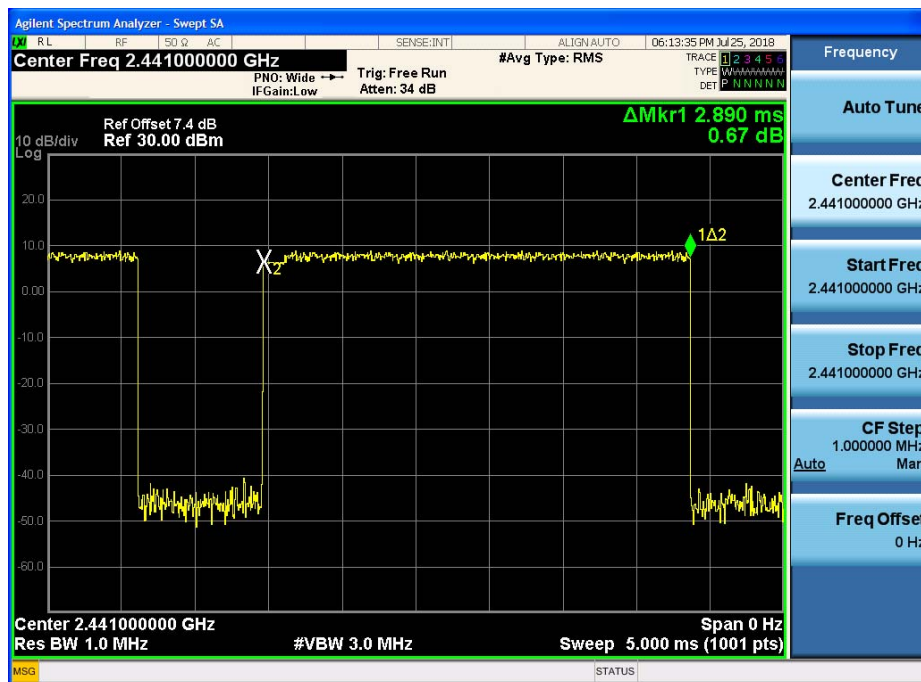


Test Plots (8DPSK)
Dwell Time (CH.0)



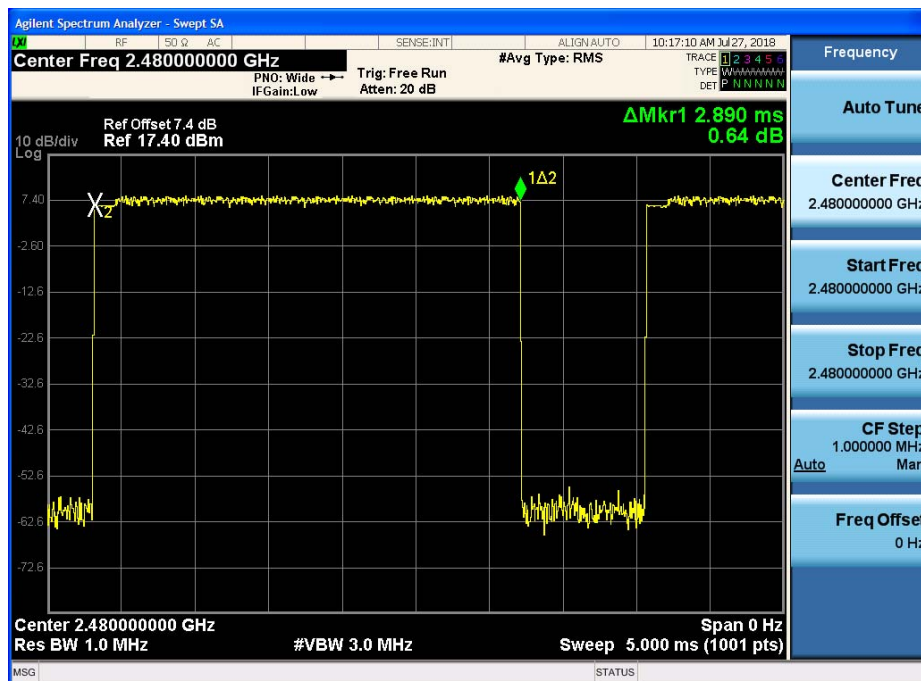
Test Plots (8DPSK)

Dwell Time (CH.39)



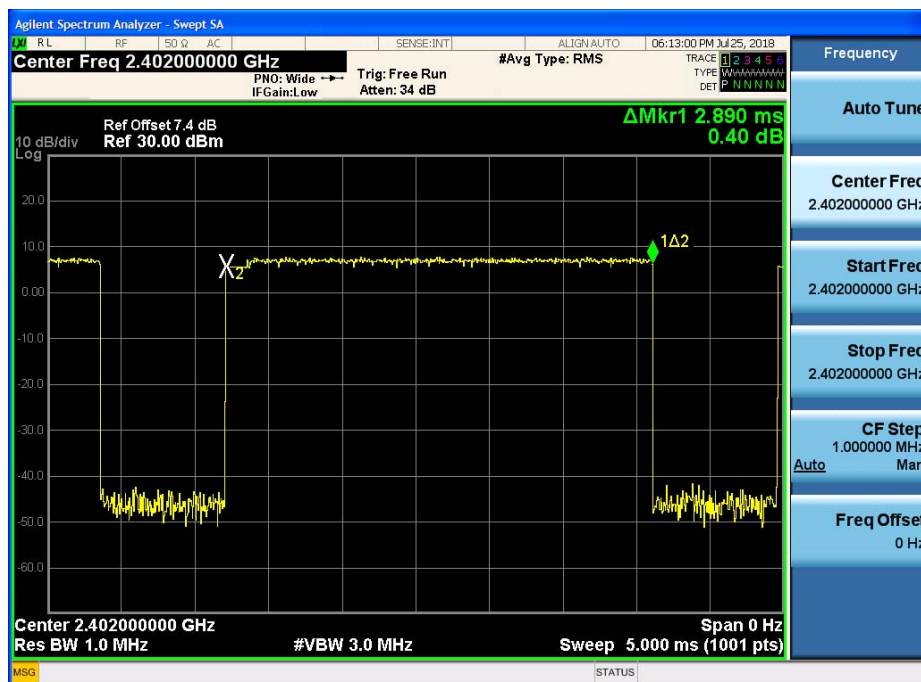
Test Plots (8DPSK)

Dwell Time (CH.78)



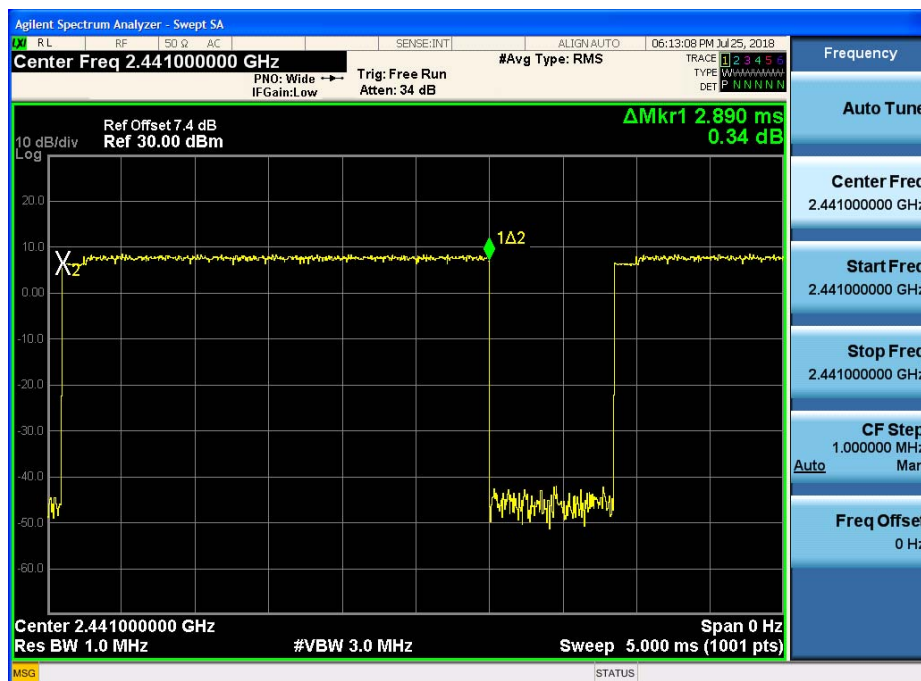
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)



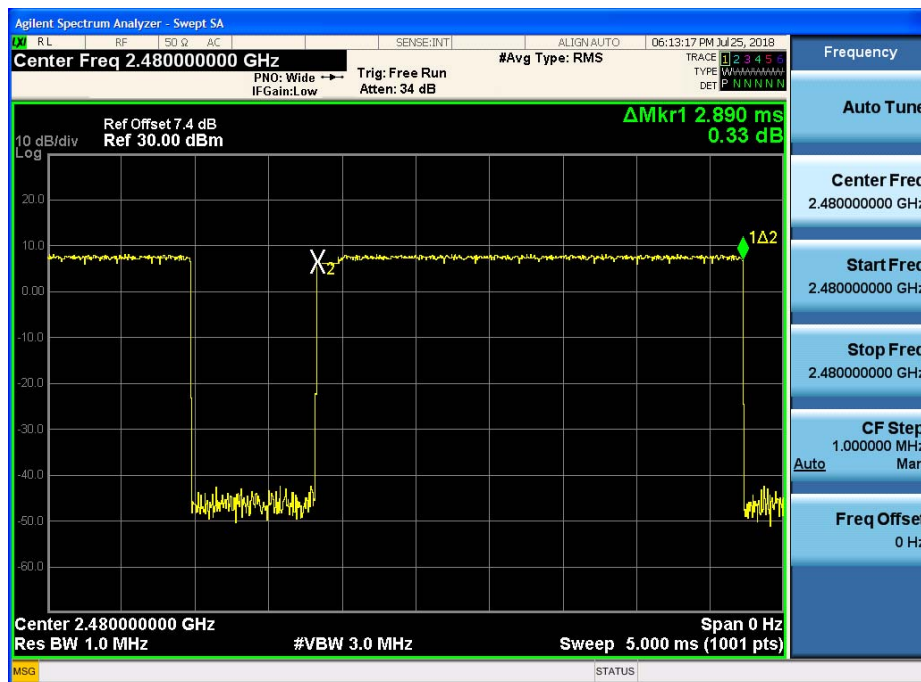
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



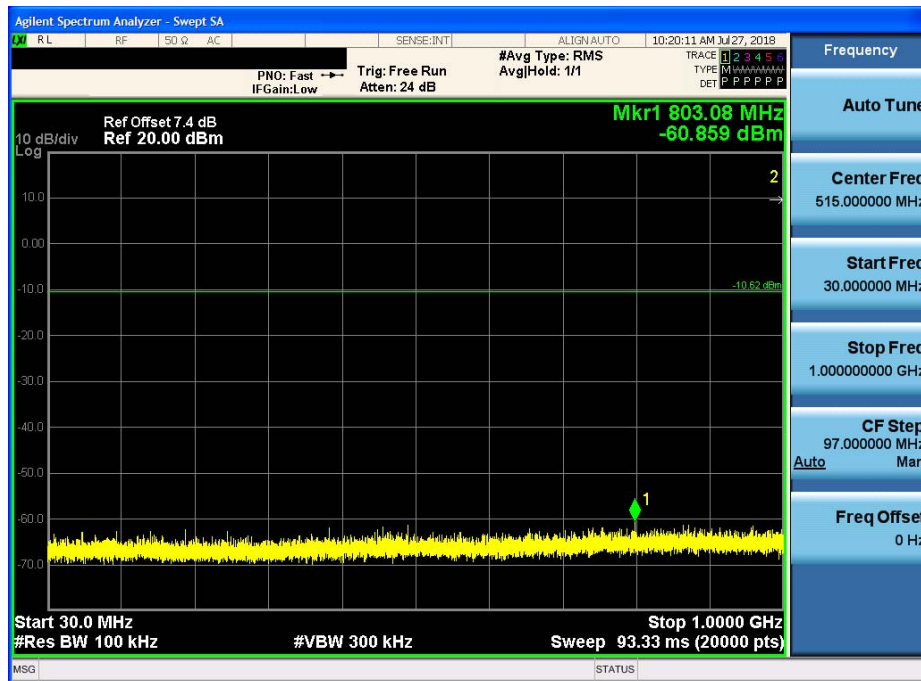
10.6 SPURIOUS EMISSIONS

10.6.1 CONDUCTED SPURIOUS EMISSIONS

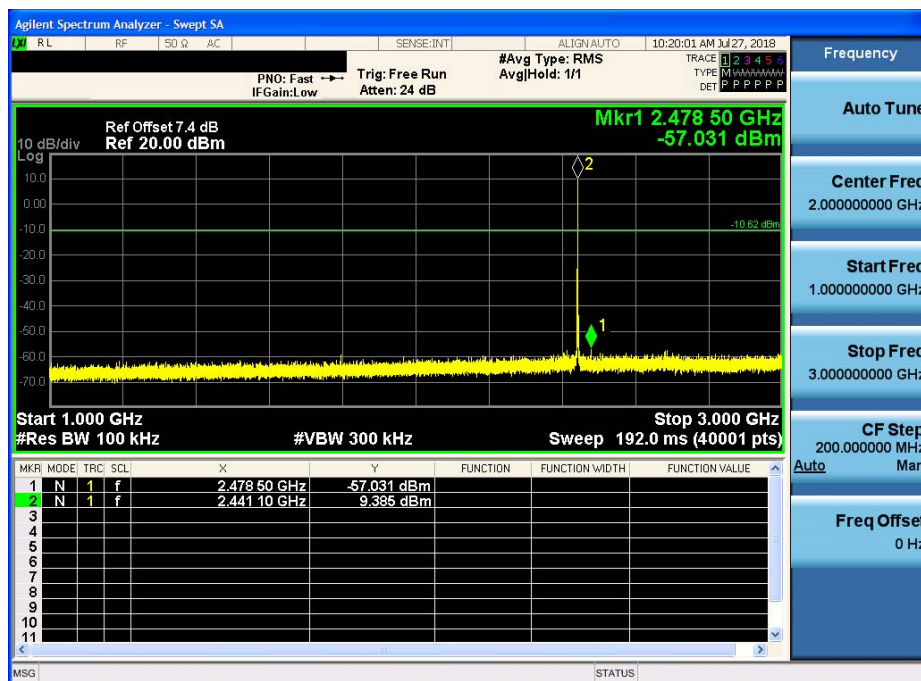
Test Result : please refer to the plot below.

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

Test Plots (GFSK)- 30 MHz - 1 GHz
Spurious Emission (CH.39)

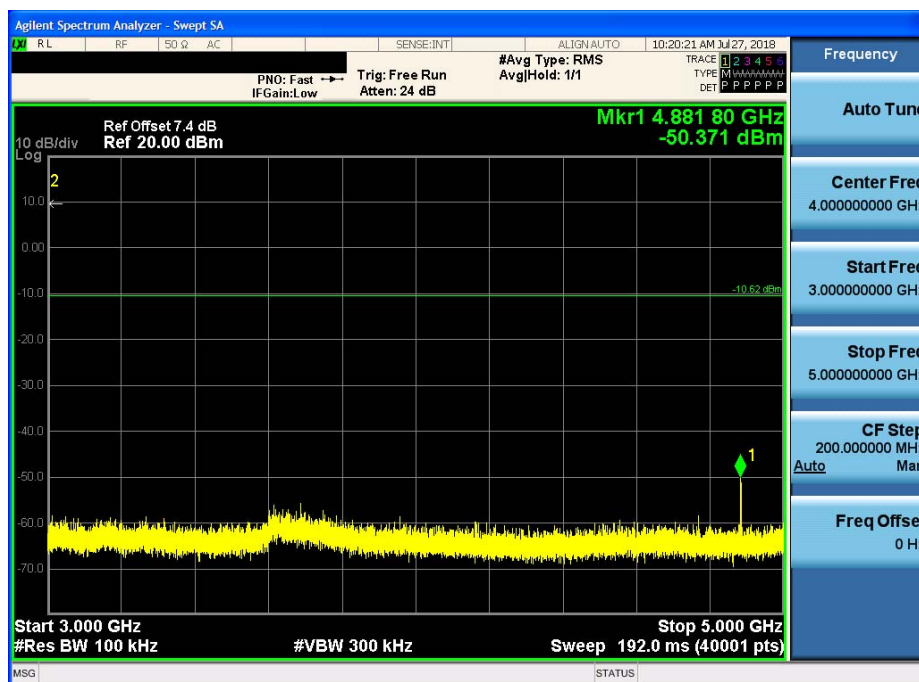


Test Plots (GFSK)- 1 GHz – 3 GHz
Spurious Emission (CH.39)



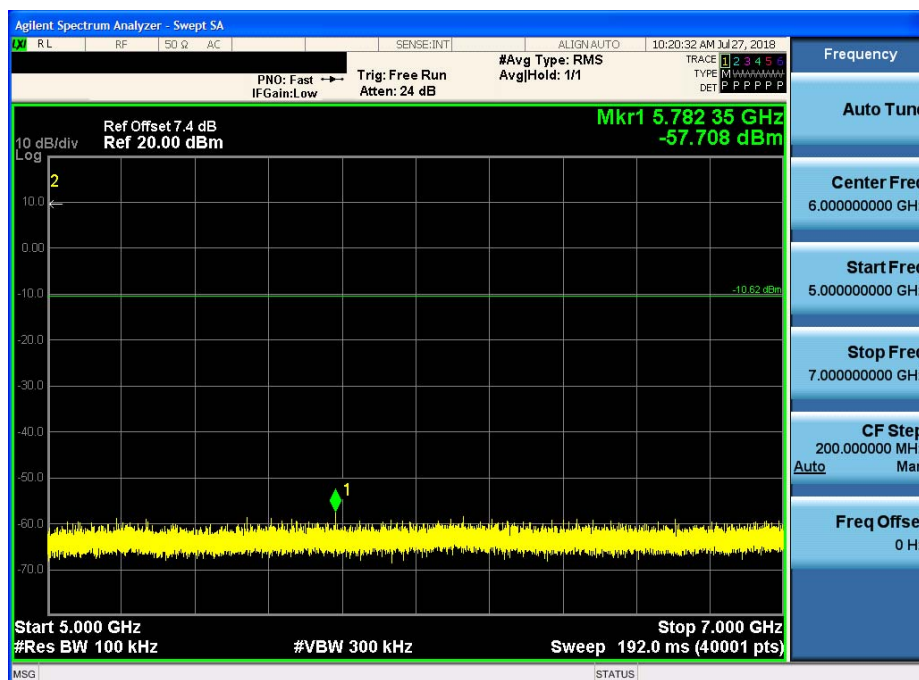
Test Plots(GFSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)



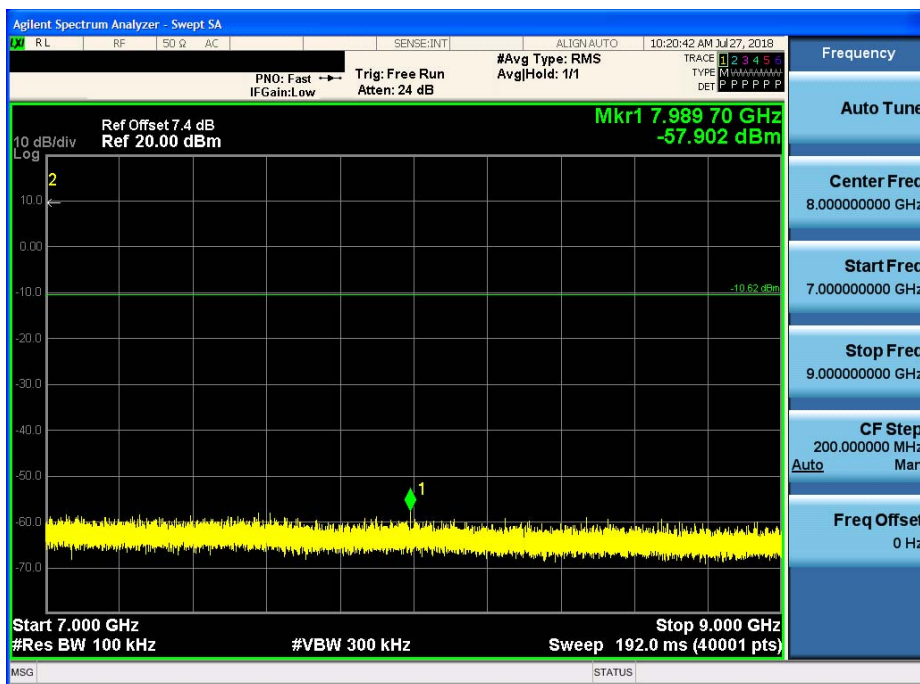
Test Plots (GFSK)- 5 GHz - 7 GHz

Spurious Emission (CH.39)



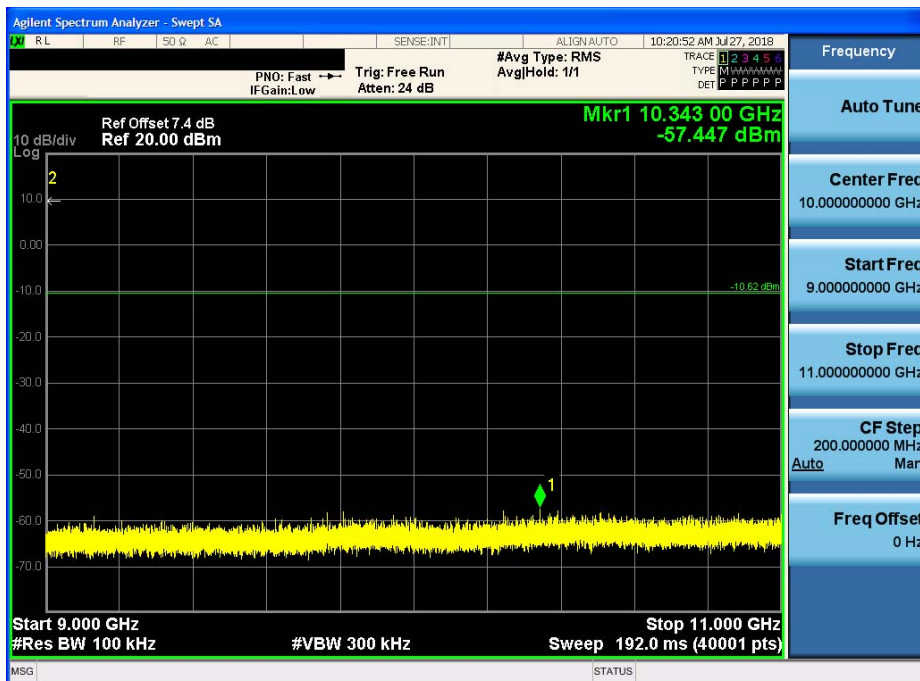
Test Plots(GFSK)- 7 GHz - 9 GHz

Spurious Emission (CH.39)



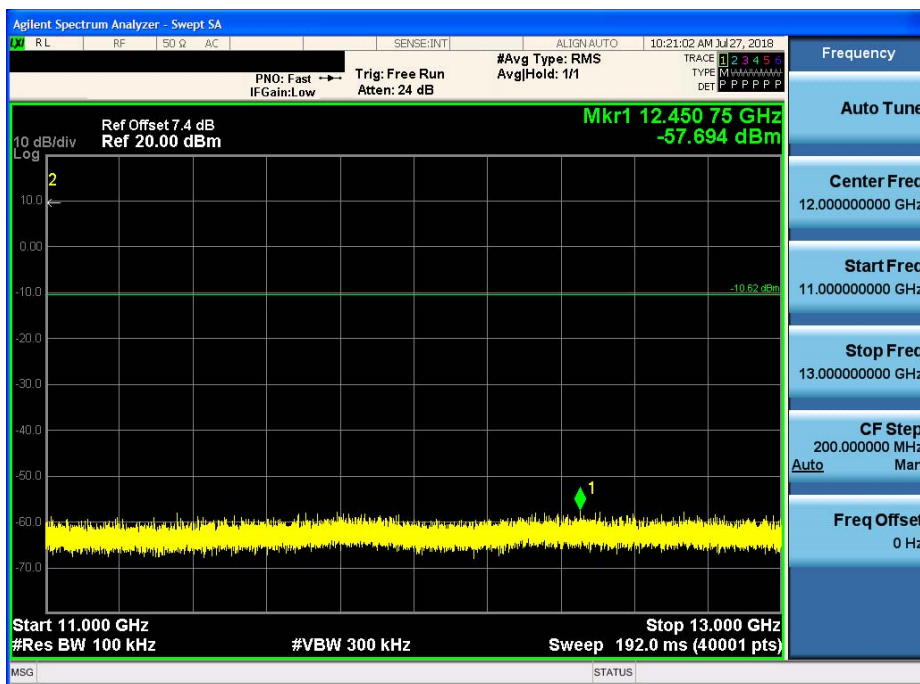
Test Plots(GFSK)- 9 GHz - 11 GHz

Spurious Emission (CH.39)



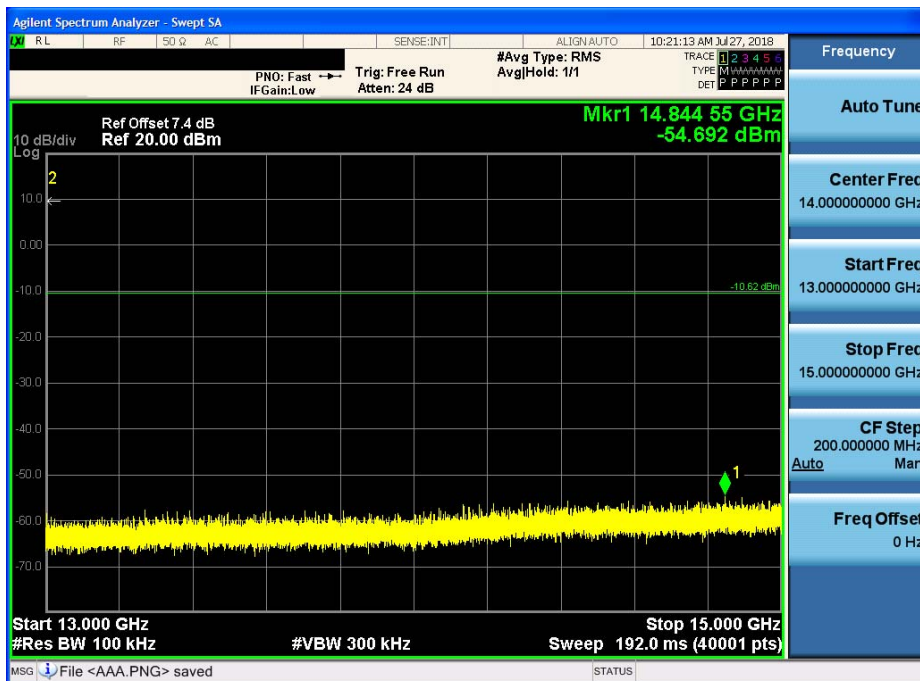
Test Plots(GFSK) 11 GHz - 13 GHz

Spurious Emission (CH.39)



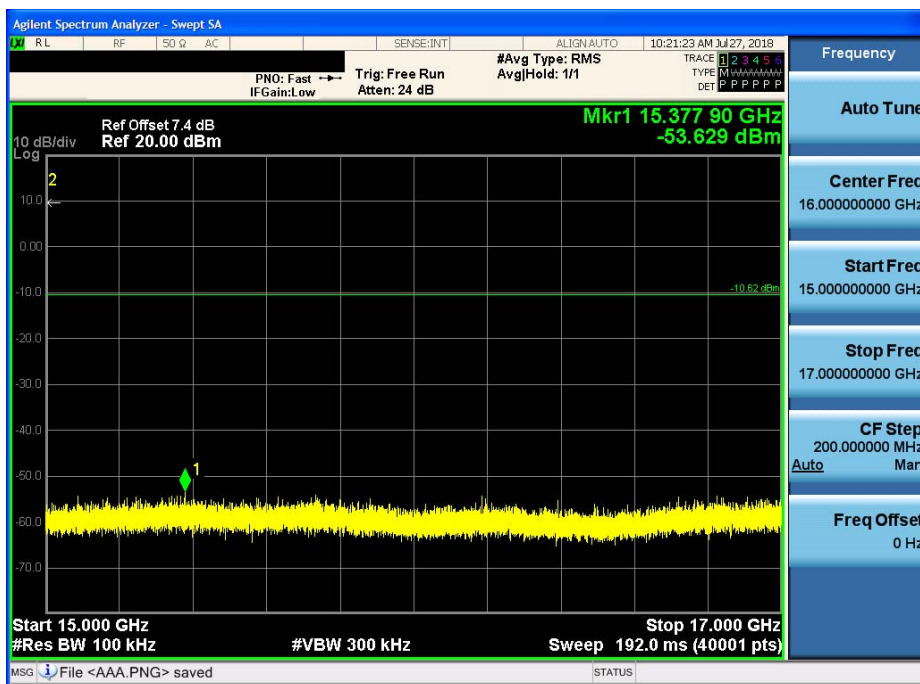
Test Plots (GFSK)- 13 GHz – 15 GHz

Spurious Emission (CH.39)



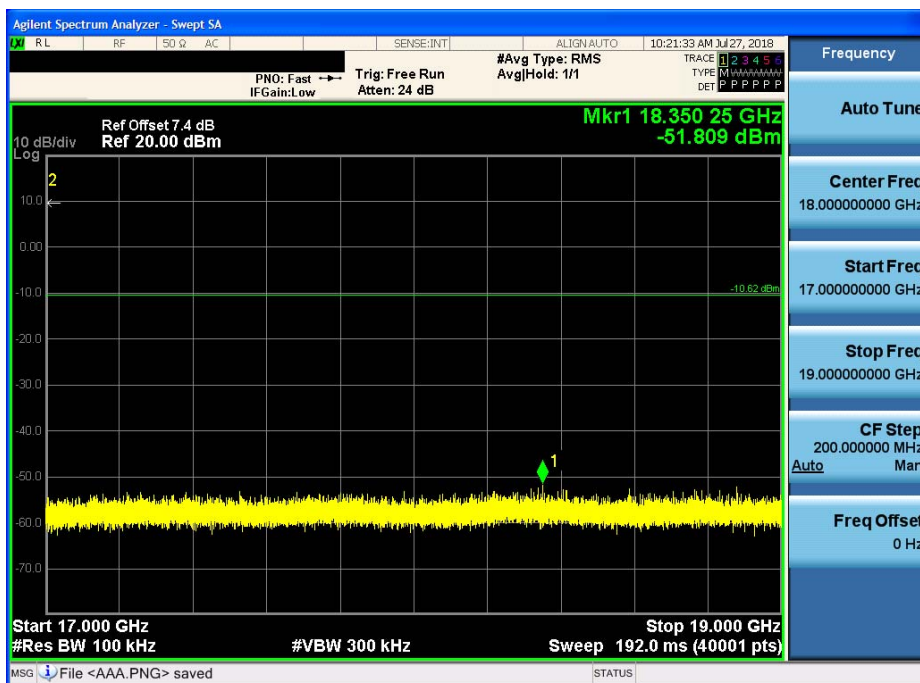
Test Plots(GFSK)- 15 GHz - 17 GHz

Spurious Emission (CH.39)



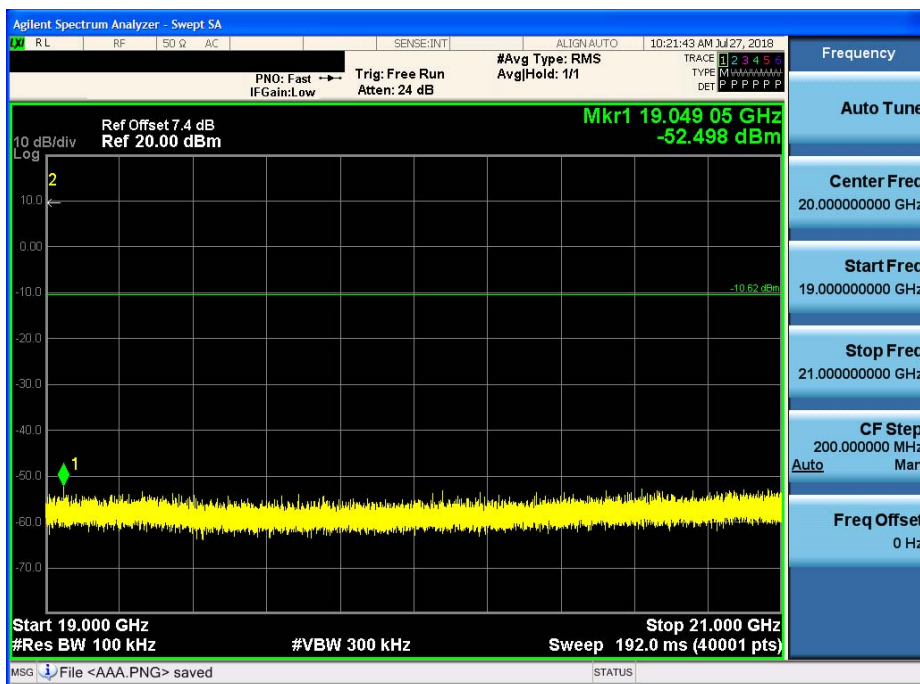
Test Plots(GFSK)- 17 GHz - 19 GHz

Spurious Emission (CH.39)



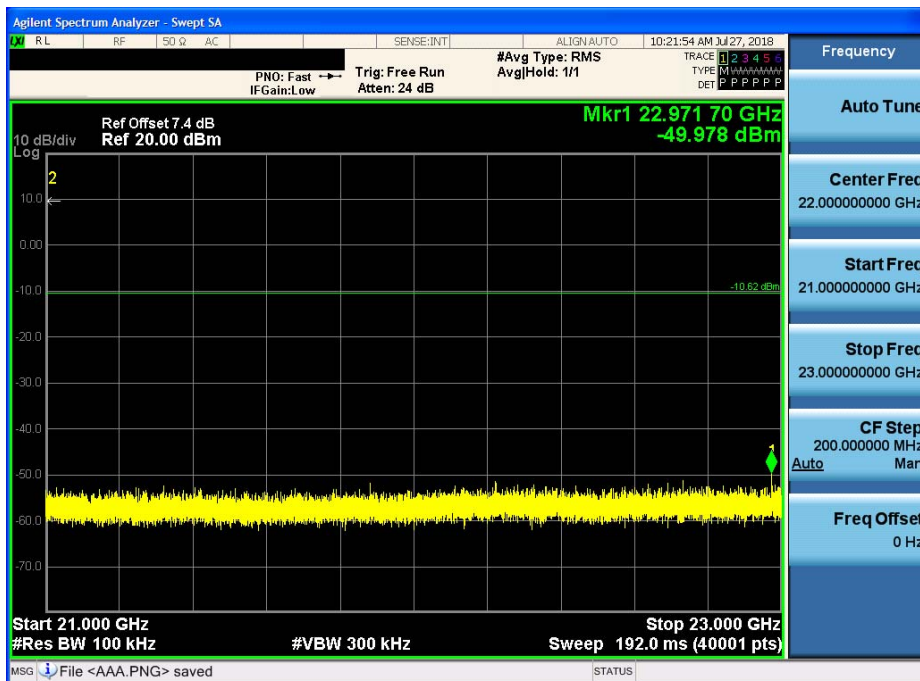
Test Plots (GFSK)- 19 GHz - 21 GHz

Spurious Emission (CH.39)

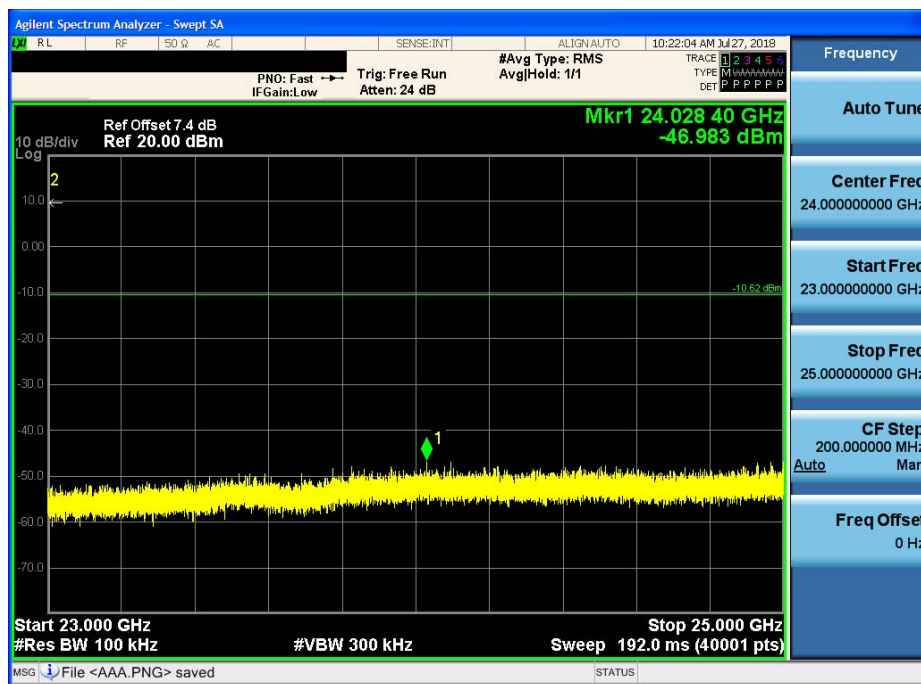


Test Plots (GFSK)- 21 GHz - 23 GHz

Spurious Emission (CH.39)



Test Plots (GFSK)- 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:

- The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- Distance extrapolation factor = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
- Limit line = specific Limits (dBuV) + Distance extrapolation factor
- Radiated test is performed with hopping off.
- The test results for below 30 MHz is correlated to an open site.
The result on OATS 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:

- Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
- 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	53.78	-0.42	V	53.36	73.98	20.62	PK
4804	44.56	-0.42	V	44.14	53.98	9.84	AV
7206	51.08	5.40	V	56.475	73.98	17.51	PK
7206	37.66	5.40	V	43.055	53.98	10.93	AV
4804	54.18	-0.42	H	53.76	73.98	20.22	PK
4804	45.11	-0.42	H	44.69	53.98	9.29	AV
7206	51.22	5.40	H	56.615	73.98	17.37	PK
7206	38.08	5.40	H	43.475	53.98	10.51	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	51.42	-0.42	V	51.00	73.98	22.98	PK
4804	39.66	-0.42	V	39.24	53.98	14.74	AV
7206	51.07	5.40	V	56.465	73.98	17.52	PK
7206	39.41	5.40	V	44.805	53.98	9.18	AV
4804	52.60	-0.42	H	52.18	73.98	21.80	PK
4804	40.24	-0.42	H	39.82	53.98	14.16	AV
7206	51.30	5.40	H	56.695	73.98	17.29	PK
7206	37.93	5.40	H	43.325	53.98	10.66	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	51.66	-0.42	V	51.24	73.98	22.74	PK
4804	39.49	-0.42	V	39.07	53.98	14.91	AV
7206	51.13	5.40	V	56.525	73.98	17.46	PK
7206	37.29	5.40	V	42.685	53.98	11.30	AV
4804	52.32	-0.42	H	51.9	73.98	22.08	PK
4804	40.30	-0.42	H	39.88	53.98	14.10	AV
7206	52.04	5.40	H	57.435	73.98	16.55	PK
7206	38.14	5.40	H	43.535	53.98	10.45	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	52.84	-0.27	V	52.575	73.98	21.41	PK
4882	44.16	-0.27	V	43.895	53.98	10.09	AV
7323	49.61	5.42	V	55.03	73.98	18.95	PK
7323	36.77	5.42	V	42.19	53.98	11.79	AV
4882	53.62	-0.27	H	53.355	73.98	20.63	PK
4882	44.53	-0.27	H	44.265	53.98	9.72	AV
7323	50.46	5.42	H	55.88	73.98	18.10	PK
7323	37.06	5.42	H	42.48	53.98	11.50	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	52.13	-0.27	V	51.865	73.98	22.12	PK
4882	39.54	-0.27	V	39.275	53.98	14.71	AV
7323	50.66	5.42	V	56.08	73.98	17.90	PK
7323	37.00	5.42	V	42.42	53.98	11.56	AV
4882	53.35	-0.27	H	53.085	73.98	20.90	PK
4882	40.25	-0.27	H	39.985	53.98	14.00	AV
7323	51.60	5.42	H	57.02	73.98	16.96	PK
7323	37.19	5.42	H	42.61	53.98	11.37	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	52.11	-0.27	V	51.845	73.98	22.14	PK
4882	39.44	-0.27	V	39.175	53.98	14.81	AV
7323	50.17	5.42	V	55.59	73.98	18.39	PK
7323	36.84	5.42	V	42.26	53.98	11.72	AV
4882	52.54	-0.27	H	52.275	73.98	21.71	PK
4882	40.08	-0.27	H	39.815	53.98	14.17	AV
7323	50.69	5.42	H	56.11	73.98	17.87	PK
7323	37.14	5.42	H	42.56	53.98	11.42	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	53.16	-0.67	V	52.49	73.98	21.49	PK
4960	43.78	-0.67	V	43.11	53.98	10.87	AV
7440	49.58	5.70	V	55.28	73.98	18.70	PK
7440	36.27	5.70	V	41.97	53.98	12.01	AV
4960	53.68	-0.67	H	53.01	73.98	20.97	PK
4960	44.11	-0.67	H	43.44	53.98	10.54	AV
7440	50.34	5.70	H	56.04	73.98	17.94	PK
7440	36.74	5.70	H	42.44	53.98	11.54	AV

Operation Mode: CH High(8DPSK)

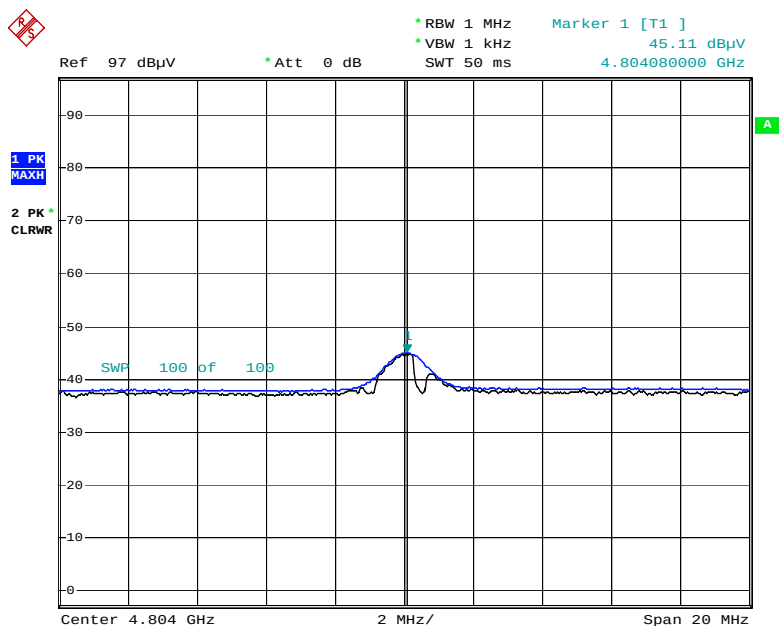
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	51.46	-0.67	V	50.79	73.98	23.19	PK
4960	41.15	-0.67	V	40.48	53.98	13.50	AV
7440	50.64	5.70	V	56.34	73.98	17.64	PK
7440	38.13	5.70	V	43.83	53.98	10.15	AV
4960	52.17	-0.67	H	51.5	73.98	22.48	PK
4960	41.71	-0.67	H	41.04	53.98	12.94	AV
7440	51.27	5.70	H	56.97	73.98	17.01	PK
7440	38.77	5.70	H	44.47	53.98	9.51	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	52.26	-0.67	V	51.59	73.98	22.39	PK
4960	41.11	-0.67	V	40.44	53.98	13.54	AV
7440	49.75	5.70	V	55.45	73.98	18.53	PK
7440	36.27	5.70	V	41.97	53.98	12.01	AV
4960	52.77	-0.67	H	52.1	73.98	21.88	PK
4960	41.56	-0.67	H	40.89	53.98	13.09	AV
7440	50.04	5.70	H	55.74	73.98	18.24	PK
7440	36.79	5.70	H	42.49	53.98	11.49	AV

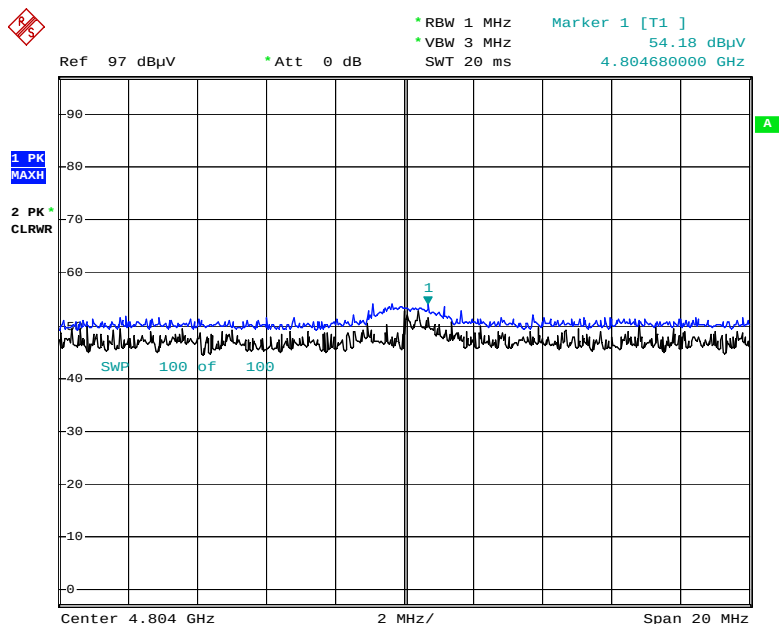
RESULT PLOTS (Worst case : Y-H)

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



Date: 30.JUL.2018 03:57:25

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



Date: 30.JUL.2018 03:58:14

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]	D.C.C.F [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	54.02	1.34	H	0	55.36	73.98	18.62	PK
2390.0	40.15	1.34	H	-24.73	16.76	53.98	37.22	AV
2390.0	53.61	1.34	V	0	54.95	73.98	19.03	PK
2390.0	39.27	1.34	V	-24.73	15.88	53.98	38.10	AV
2483.5	62.62	0.37	H	0	62.99	73.98	10.99	PK
2483.5	59.52	0.37	H	-24.73	35.16	53.98	18.82	AV
2483.5	61.72	0.37	V	0	62.09	73.98	11.89	PK
2483.5	58.26	0.37	V	-24.73	33.90	53.98	20.08	AV

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

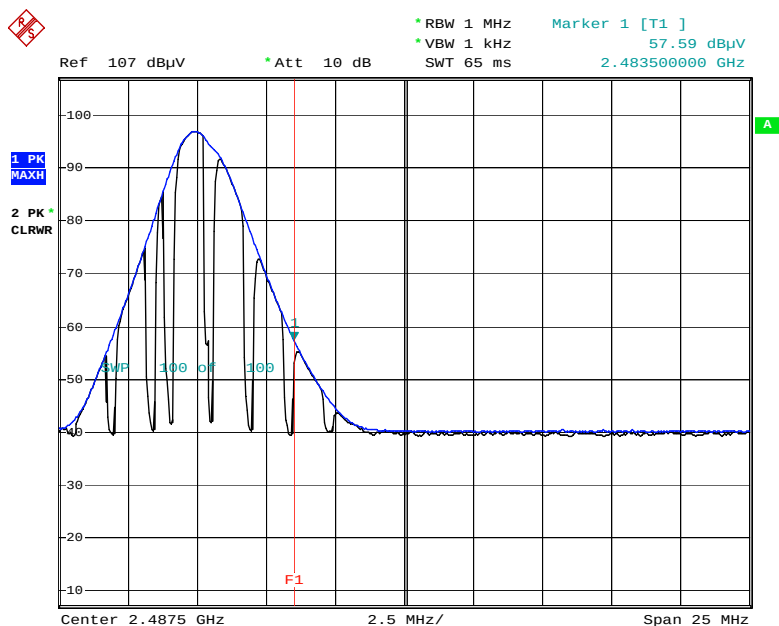
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F [dB]	Pol. [H/V]	D.C.C.F [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	53.74	1.34	H	0	55.08	73.98	18.90	PK
2390.0	40.60	1.34	H	-24.73	17.21	53.98	36.77	AV
2390.0	52.64	1.34	V	0	53.98	73.98	20.00	PK
2390.0	39.75	1.34	V	-24.73	16.36	53.98	37.62	AV
2483.5	62.87	0.37	H	0	63.24	73.98	10.74	PK
2483.5	57.12	0.37	H	-24.73	32.76	53.98	21.22	AV
2483.5	52.13	0.37	V	0	52.50	73.98	21.48	PK
2483.5	56.21	0.37	V	-24.73	31.85	53.98	22.13	AV

Operation Mode	EDR($\pi/4$ DQPSK)
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]	D.C.C.F [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	53.47	1.34	H	0	54.81	73.98	19.17	PK
2390.0	40.55	1.34	H	-24.73	17.16	53.98	36.82	AV
2390.0	52.60	1.34	V	0	53.94	73.98	20.04	PK
2390.0	39.22	1.34	V	-24.73	15.83	53.98	38.15	AV
2483.5	62.91	0.37	H	0	63.28	73.98	10.70	PK
2483.5	57.59	0.37	H	-24.73	33.23	53.98	20.75	AV
2483.5	62.79	0.37	V	0	63.16	73.98	10.82	PK
2483.5	57.08	0.37	V	-24.73	32.72	53.98	21.26	AV

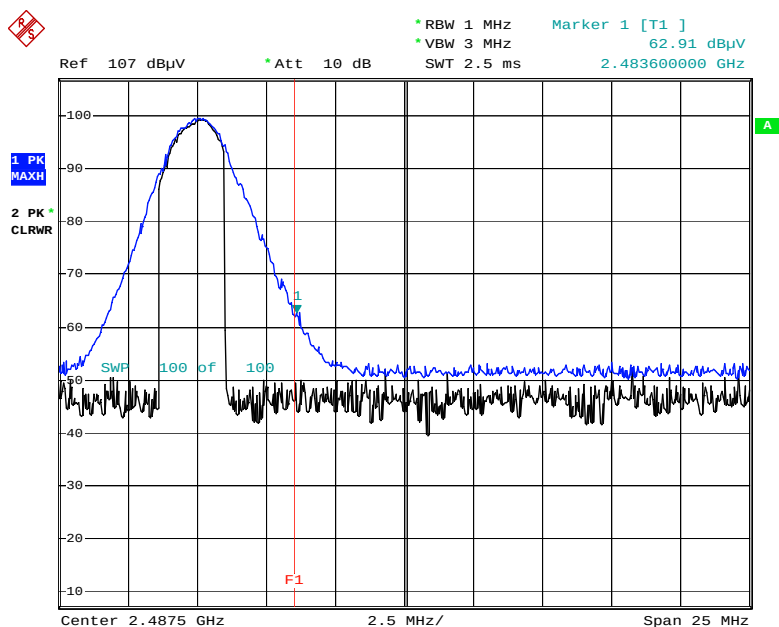
RESULT PLOTS (Worst case : Y-H)

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



Date: 27.JUL.2018 10:25:16

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



Date: 27.JUL.2018 10:26:03

Note:

Plot of worst case are only reported.

10.7 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

EMI Auto Test(4)

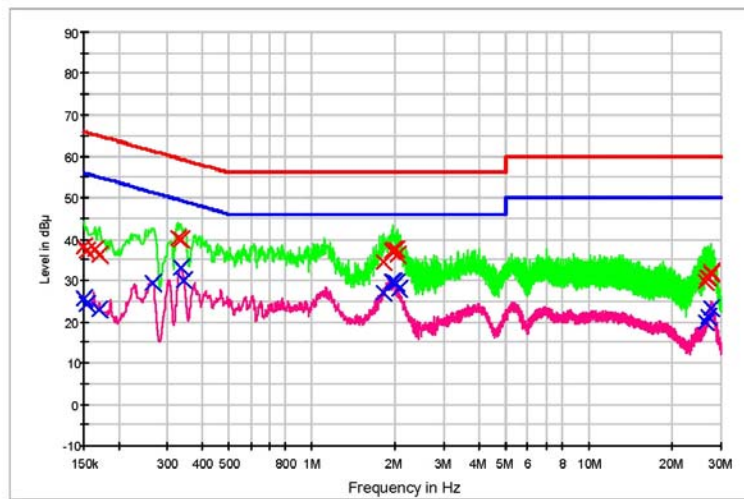
1 / 2

HCT TEST Report

Common Information

EUT: SM-J701FB
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT_MODE_N

FCC CLASS B_Exten Cable



— FCC CLASS B_OP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG — Final Result 1-OPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	38.3	9.000	Off	N	9.7	27.8	66.0
0.154000	37.3	9.000	Off	N	9.7	28.5	65.8
0.164000	37.3	9.000	Off	N	9.7	27.9	65.3
0.170000	36.2	9.000	Off	N	9.7	28.8	65.0
0.328000	40.0	9.000	Off	N	9.7	19.5	59.5
0.336000	40.0	9.000	Off	N	9.7	19.3	59.3
1.822000	34.3	9.000	Off	N	9.8	21.7	56.0
1.934000	37.1	9.000	Off	N	9.8	18.9	56.0
1.968000	37.4	9.000	Off	N	9.8	18.6	56.0
1.972000	37.4	9.000	Off	N	9.8	18.6	56.0
2.010000	37.4	9.000	Off	N	9.8	18.6	56.0
2.046000	36.1	9.000	Off	N	9.8	19.9	56.0
26.442000	29.8	9.000	Off	N	10.9	30.2	60.0
26.728000	30.6	9.000	Off	N	10.9	29.4	60.0
26.992000	30.8	9.000	Off	N	10.9	29.2	60.0
27.530000	31.9	9.000	Off	N	10.9	28.1	60.0
27.554000	31.9	9.000	Off	N	10.9	28.1	60.0
27.628000	31.7	9.000	Off	N	10.9	28.3	60.0

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EMI Auto Test(4)

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	25.7	9.000	Off	N	9.7	30.3	56.0
0.154000	24.4	9.000	Off	N	9.7	31.4	55.8
0.170000	23.0	9.000	Off	N	9.7	32.0	55.0
0.266000	29.4	9.000	Off	N	9.7	21.8	51.2
0.338000	33.1	9.000	Off	N	9.7	16.2	49.3
0.346000	30.0	9.000	Off	N	9.7	19.0	49.1
1.822000	27.1	9.000	Off	N	9.8	18.9	46.0
1.938000	29.7	9.000	Off	N	9.8	16.3	46.0
1.968000	29.5	9.000	Off	N	9.8	16.5	46.0
1.972000	29.5	9.000	Off	N	9.8	16.5	46.0
2.010000	29.2	9.000	Off	N	9.8	16.8	46.0
2.050000	27.9	9.000	Off	N	9.8	18.1	46.0
26.442000	19.9	9.000	Off	N	10.9	30.1	50.0
26.992000	21.3	9.000	Off	N	10.9	28.7	50.0
27.530000	23.2	9.000	Off	N	10.9	26.8	50.0
27.554000	23.3	9.000	Off	N	10.9	26.7	50.0
27.604000	23.4	9.000	Off	N	10.9	26.6	50.0
27.628000	23.4	9.000	Off	N	10.9	26.6	50.0

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Conducted Emissions (Line 2)

EMI Auto Test(4)

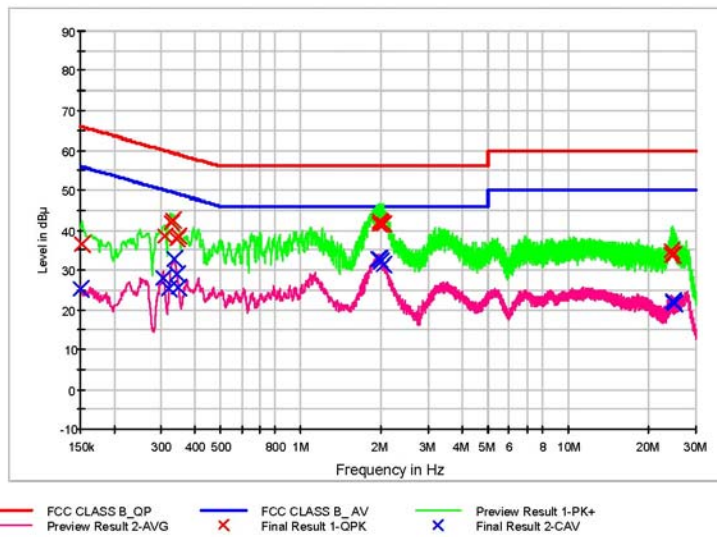
1 / 2

HCT TEST Report

Common Information

EUT: SM-J701FB
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT_MODE_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	36.4	9.000	Off	L1	9.7	29.5	65.9
0.310000	38.5	9.000	Off	L1	9.7	21.5	60.0
0.328000	41.8	9.000	Off	L1	9.7	17.7	59.5
0.334000	42.5	9.000	Off	L1	9.7	16.9	59.4
0.344000	37.6	9.000	Off	L1	9.7	21.5	59.1
0.350000	38.5	9.000	Off	L1	9.7	20.5	59.0
1.956000	42.3	9.000	Off	L1	9.8	13.7	56.0
1.960000	41.6	9.000	Off	L1	9.8	14.4	56.0
1.992000	42.0	9.000	Off	L1	9.8	14.0	56.0
1.996000	41.7	9.000	Off	L1	9.8	14.3	56.0
2.036000	41.4	9.000	Off	L1	9.8	14.6	56.0
2.040000	41.5	9.000	Off	L1	9.8	14.5	56.0
24.390000	33.9	9.000	Off	L1	10.5	26.1	60.0
24.408000	33.9	9.000	Off	L1	10.5	26.1	60.0
24.414000	34.6	9.000	Off	L1	10.5	25.4	60.0
24.636000	33.8	9.000	Off	L1	10.5	26.2	60.0
24.640000	33.8	9.000	Off	L1	10.5	26.2	60.0
24.724000	33.9	9.000	Off	L1	10.5	26.1	60.0

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EMI Auto Test(4)

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	25.3	9.000	Off	L1	9.7	30.7	56.0
0.306000	28.0	9.000	Off	L1	9.7	22.0	50.1
0.322000	25.2	9.000	Off	L1	9.7	24.4	49.7
0.336000	32.6	9.000	Off	L1	9.7	16.7	49.3
0.346000	28.9	9.000	Off	L1	9.7	20.2	49.1
0.350000	25.7	9.000	Off	L1	9.7	23.3	49.0
1.952000	32.7	9.000	Off	L1	9.8	13.3	46.0
1.956000	32.6	9.000	Off	L1	9.8	13.4	46.0
1.960000	32.8	9.000	Off	L1	9.8	13.2	46.0
1.992000	32.1	9.000	Off	L1	9.8	13.9	46.0
1.996000	32.1	9.000	Off	L1	9.8	13.9	46.0
2.038000	31.4	9.000	Off	L1	9.8	14.6	46.0
24.458000	22.3	9.000	Off	L1	10.5	27.7	50.0
24.548000	21.9	9.000	Off	L1	10.5	28.1	50.0
24.562000	22.0	9.000	Off	L1	10.5	28.0	50.0
24.640000	21.9	9.000	Off	L1	10.5	28.1	50.0
24.724000	21.7	9.000	Off	L1	10.5	28.3	50.0
24.902000	21.6	9.000	Off	L1	10.5	28.4	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	12/20/2017	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	11/22/2017	Annual	MY49431210
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2017	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	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
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	09/21/2017	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/27/2017	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	07/16/2018	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	07/10/2018	Annual	5
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	01/03/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2018	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	Annual	2
WEINSCHL	56-10 / Attenuator(10 dB)	10/13/2017	Annual	72316
CERNEX	CBLU1183540 / Broadband Low Noise Amplifier	01/03/2018	Annual	24613
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	01/03/2018	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	01/10/2018	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-1808-FC021-P