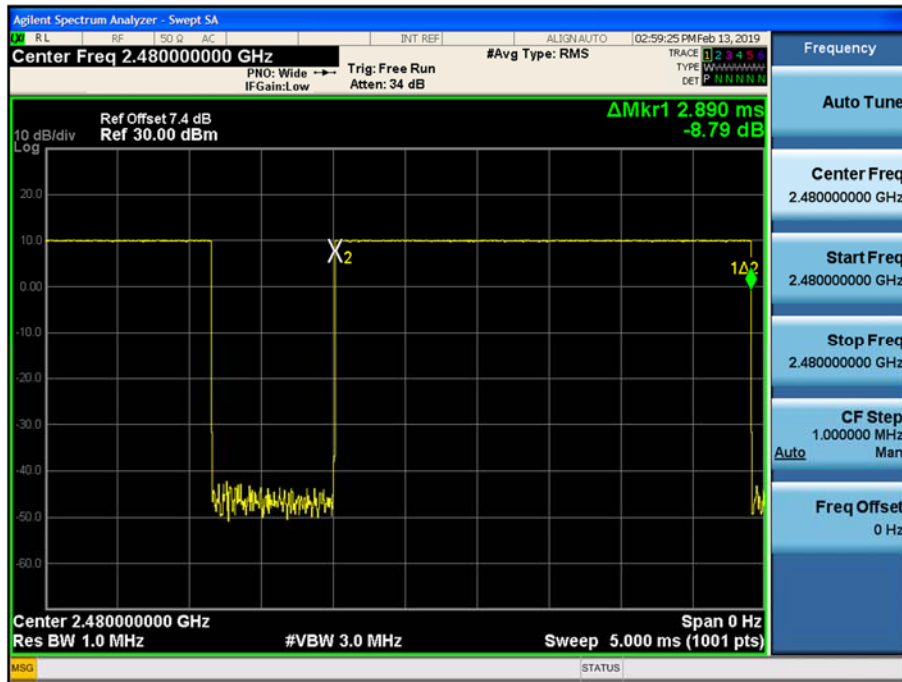
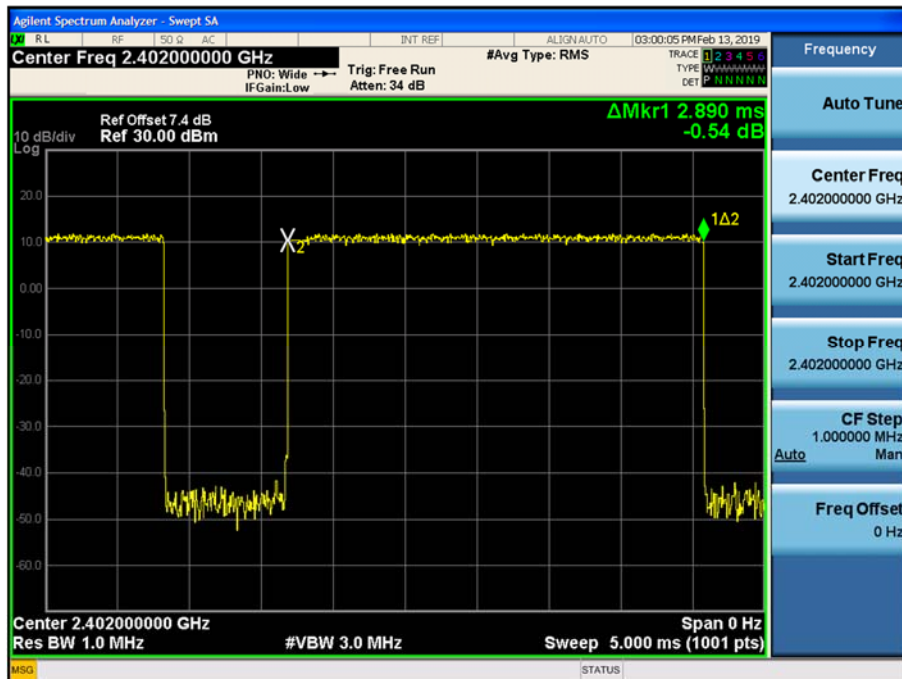


Test Plots (GFSK)  
Dwell Time (CH.78)

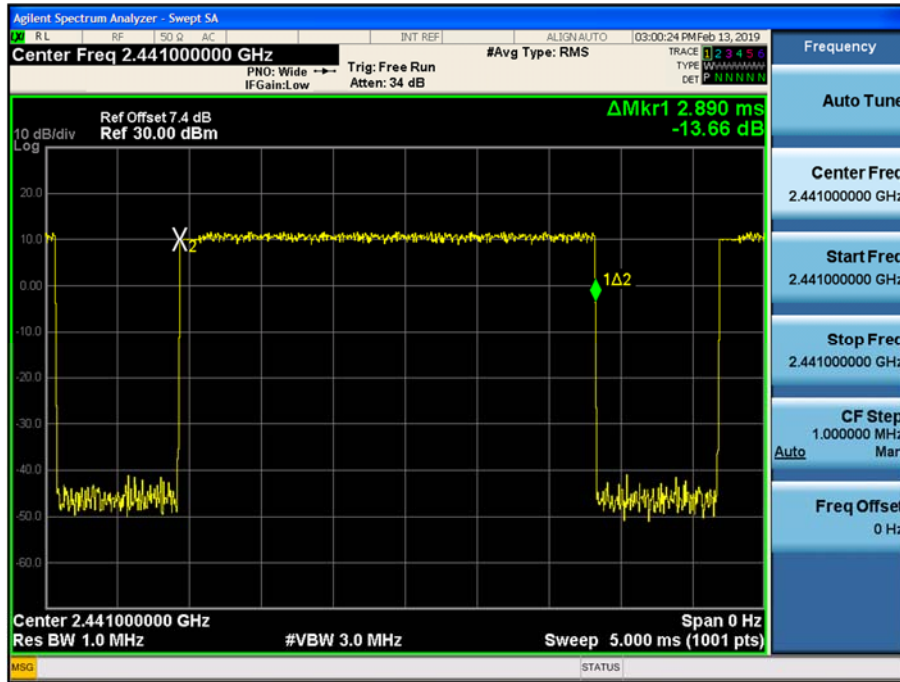


Test Plots (8DPSK)  
Dwell Time (CH.0)



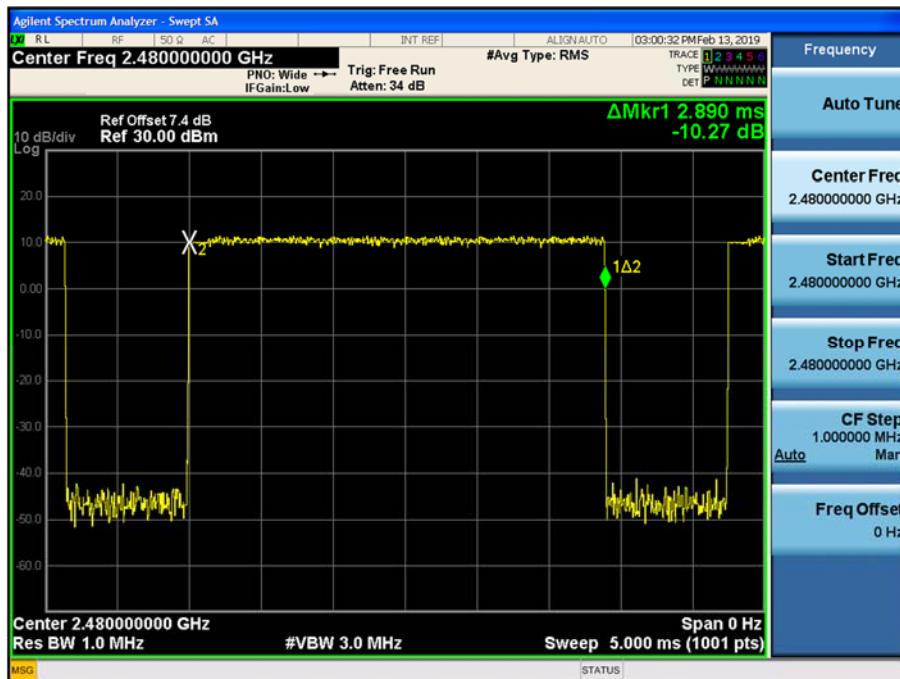
Test Plots (8DPSK)

Dwell Time (CH.39)



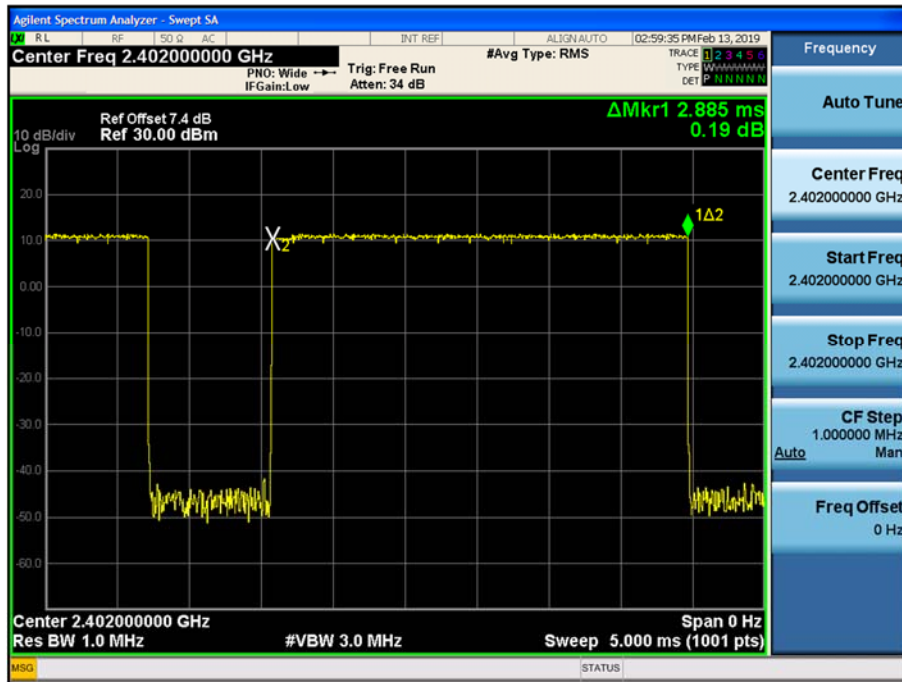
Test Plots (8DPSK)

Dwell Time (CH.78)



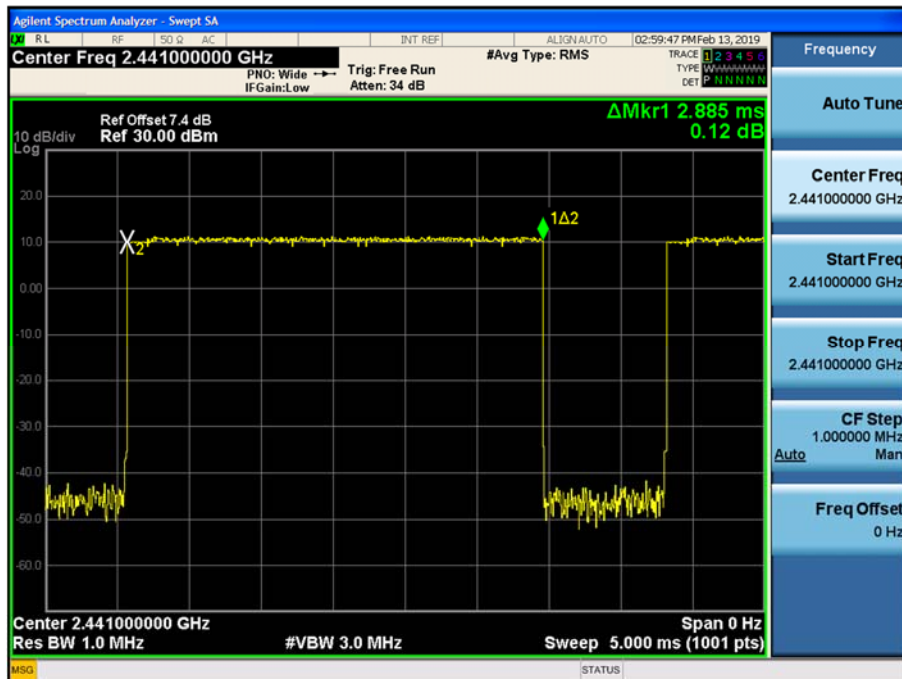
Test Plots ( $\pi/4$ DQPSK)

Dwell Time (CH.0)



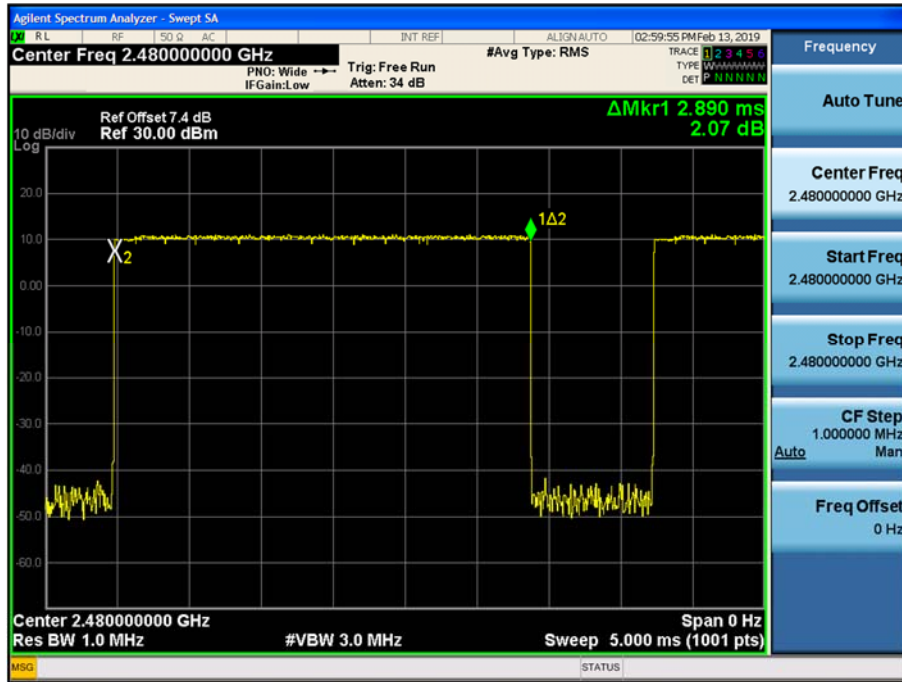
Test Plots ( $\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ( $\pi/4$ DQPSK)

Dwell Time (CH.78)



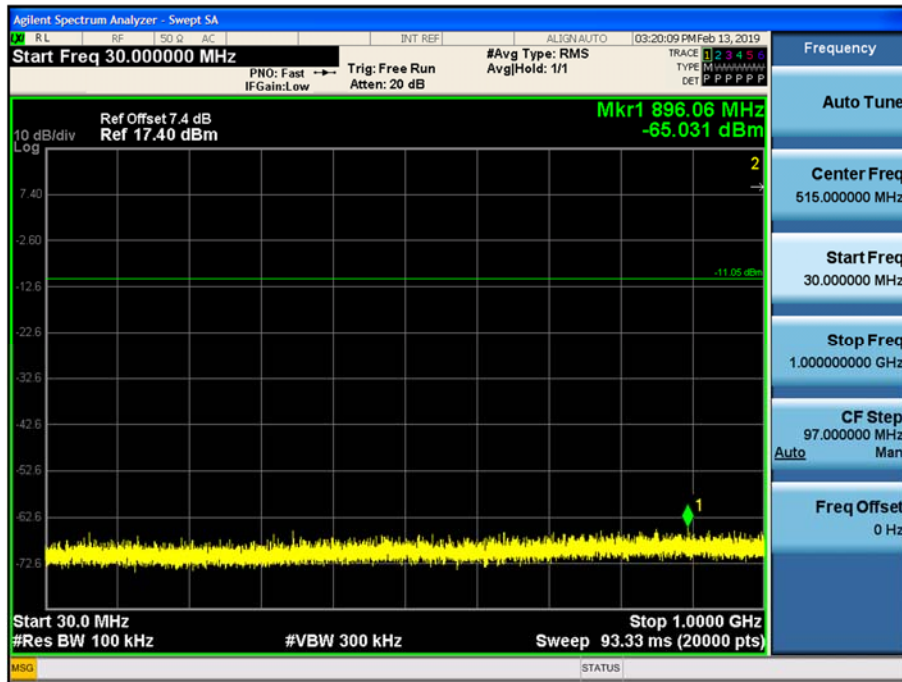
## **10.6 SPURIOUS EMISSIONS**

### **10.6.1 CONDUCTED SPURIOUS EMISSIONS**

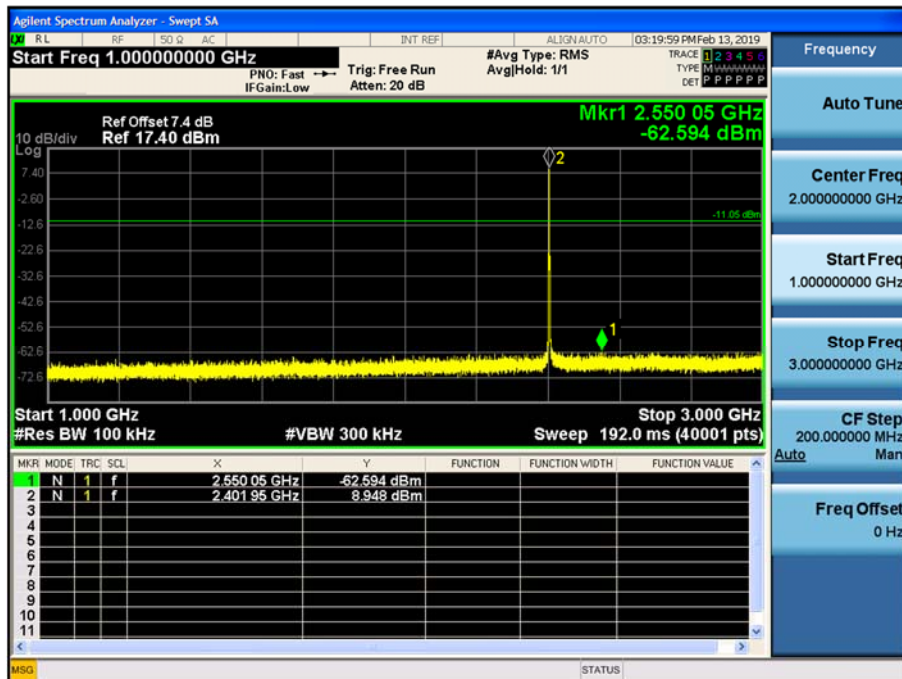
Test Result : please refer to the plot below.

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

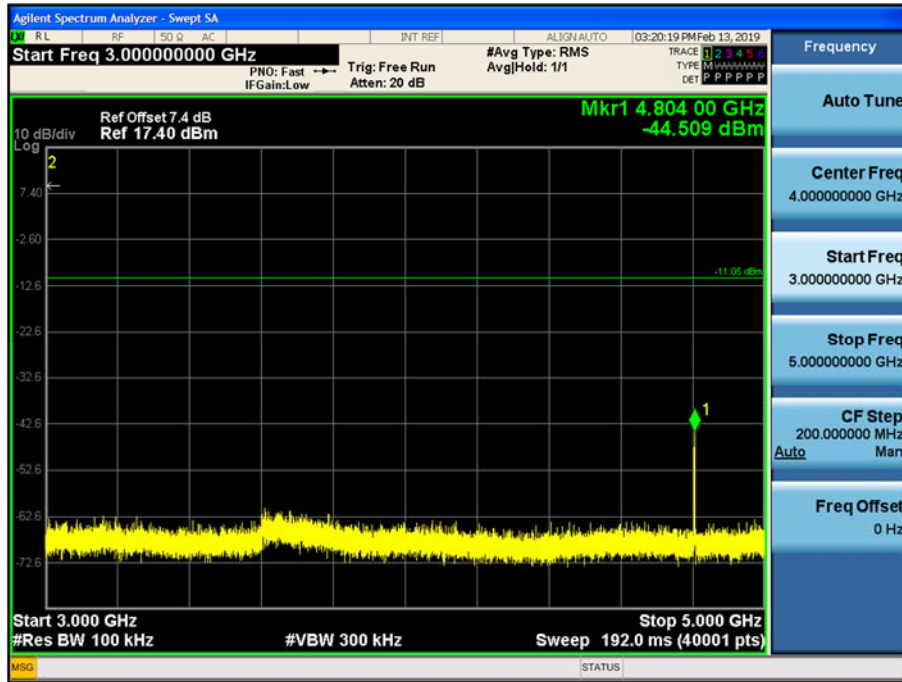
Test Plots (8DPSK)- 30 MHz - 1 GHz  
Spurious Emission (CH.0)



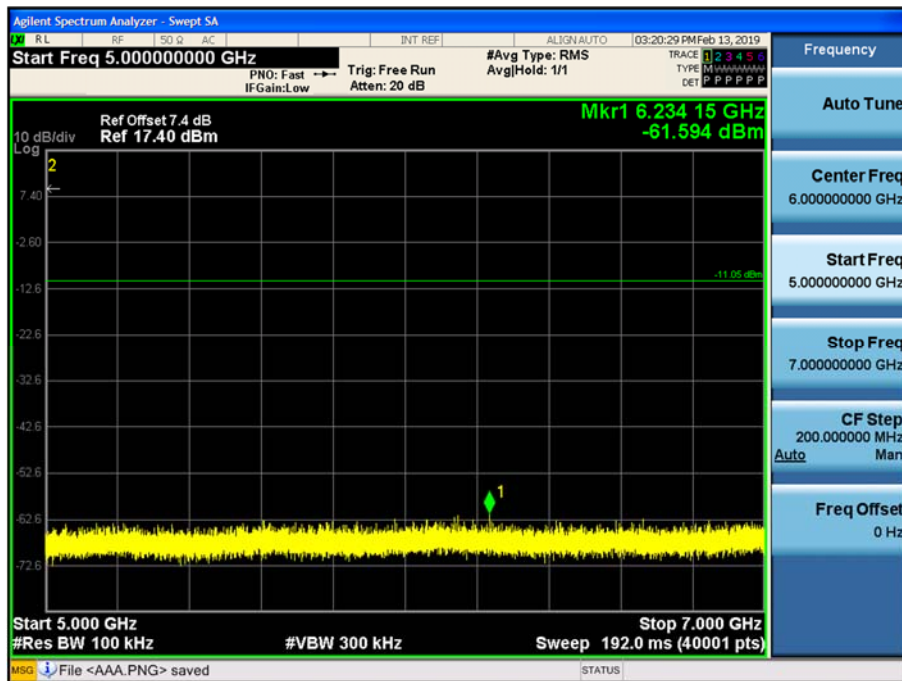
Test Plots (8DPSK)- 1 GHz – 3 GHz  
Spurious Emission (CH.0)



Test Plots(8DPSK)- 3 GHz - 5 GHz  
Spurious Emission (CH.0)

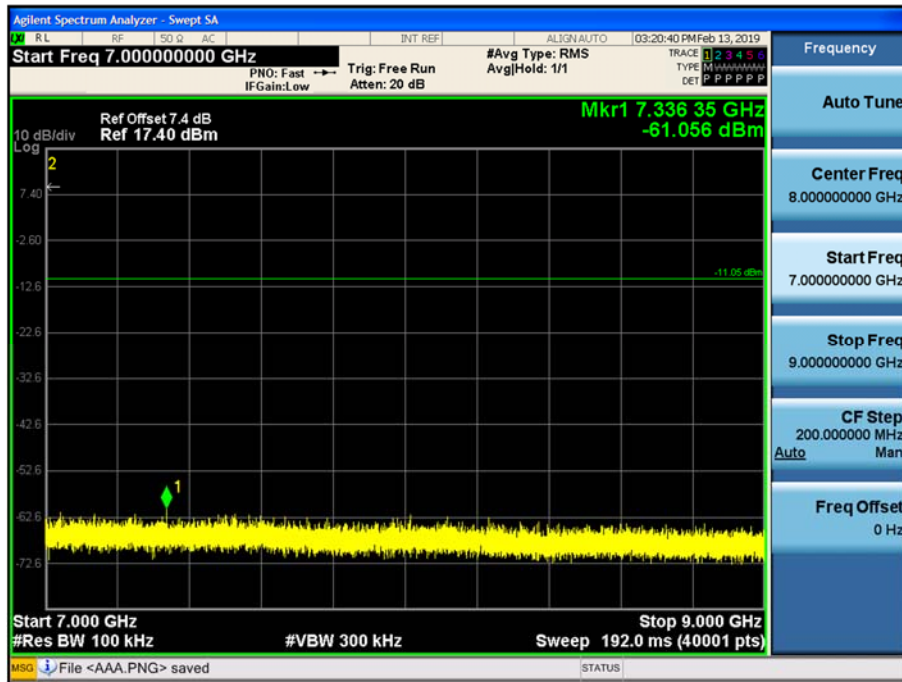


Test Plots (8DPSK)- 5 GHz - 7 GHz  
Spurious Emission (CH.0)

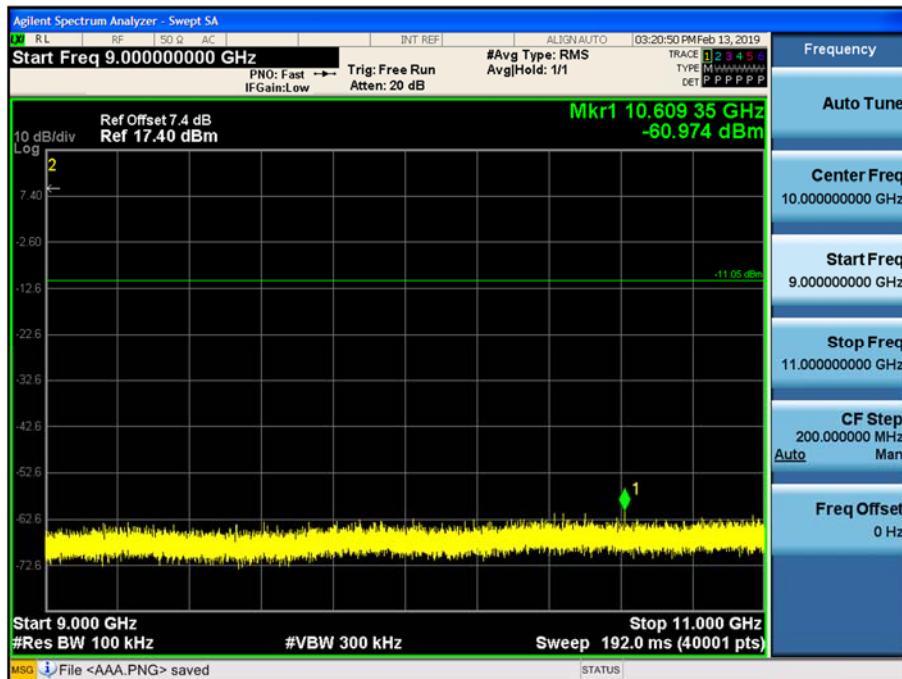




Test Plots(8DPSK)- 7 GHz - 9 GHz  
Spurious Emission (CH.0)

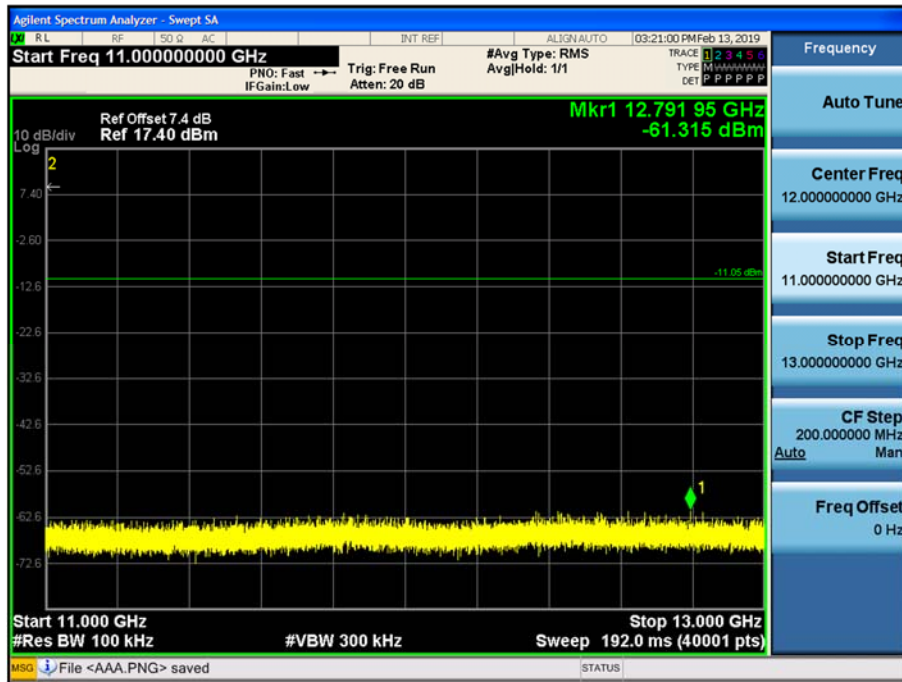


Test Plots(8DPSK)- 9 GHz - 11 GHz  
Spurious Emission (CH.0)

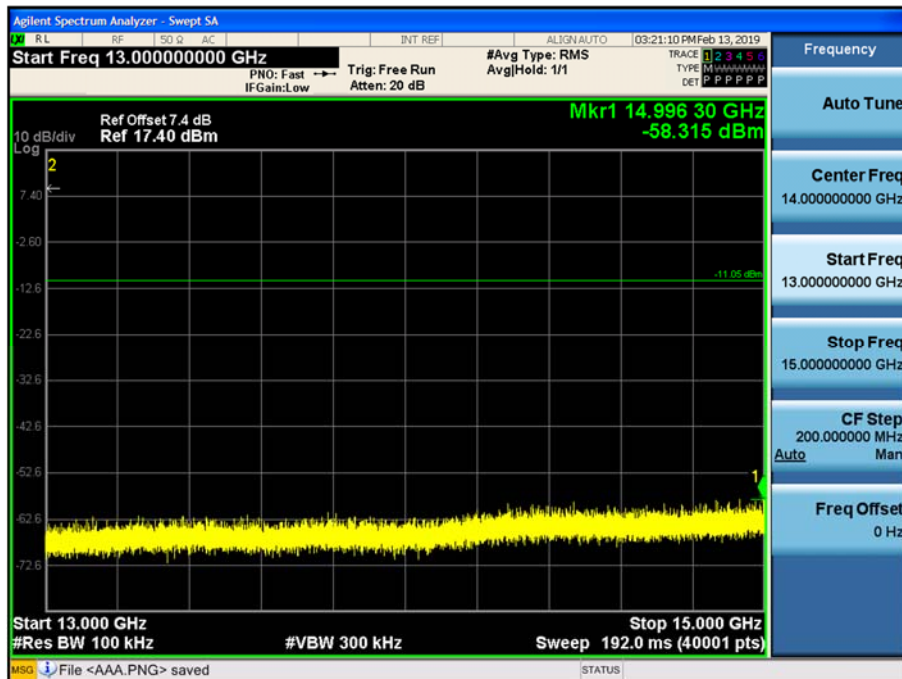




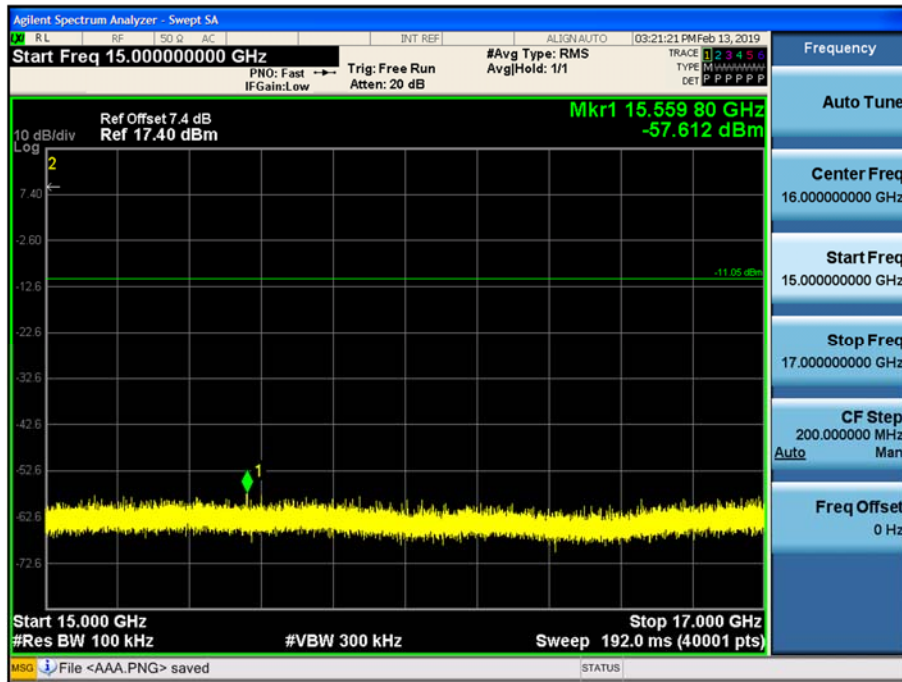
Test Plots(8DPSK) 11 GHz - 13 GHz  
Spurious Emission (CH.0)



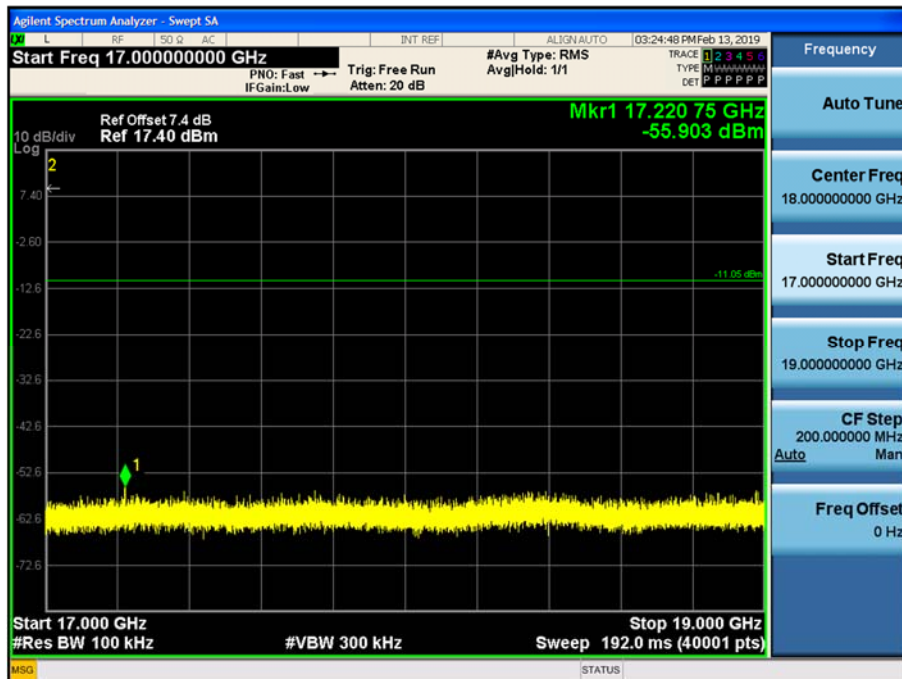
Test Plots (8DPSK)- 13 GHz – 15 GHz  
Spurious Emission (CH.0)



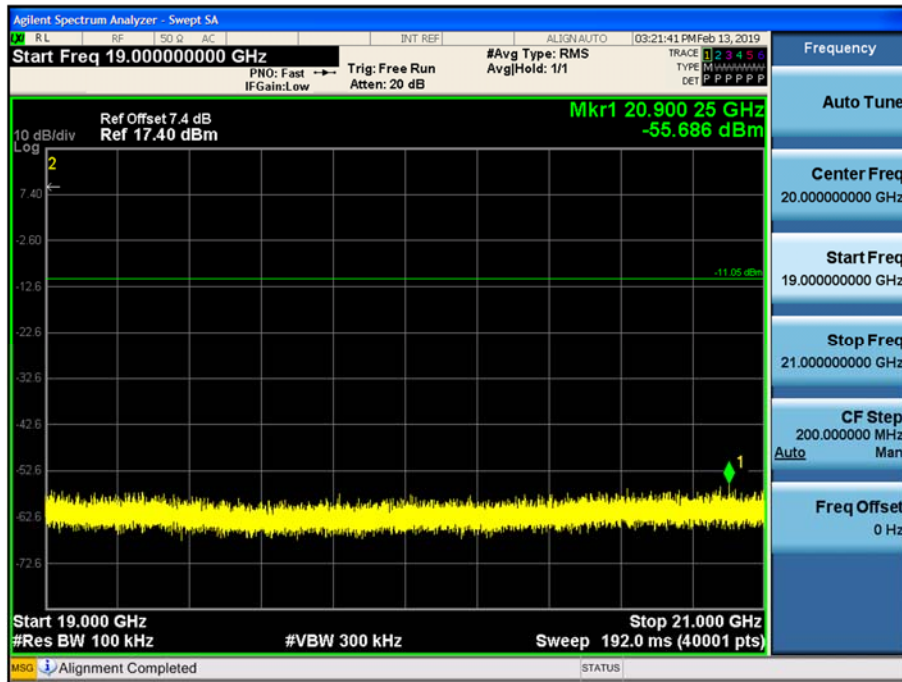
Test Plots(8DPSK)- 15 GHz - 17 GHz  
Spurious Emission (CH.0)



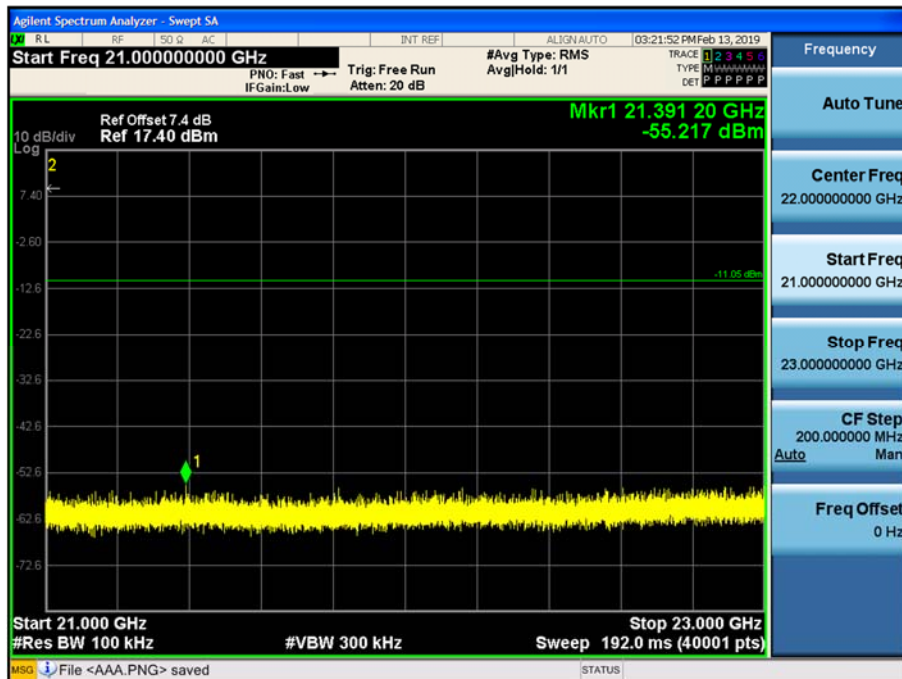
Test Plots(8DPSK)- 17 GHz - 19 GHz  
Spurious Emission (CH.0)



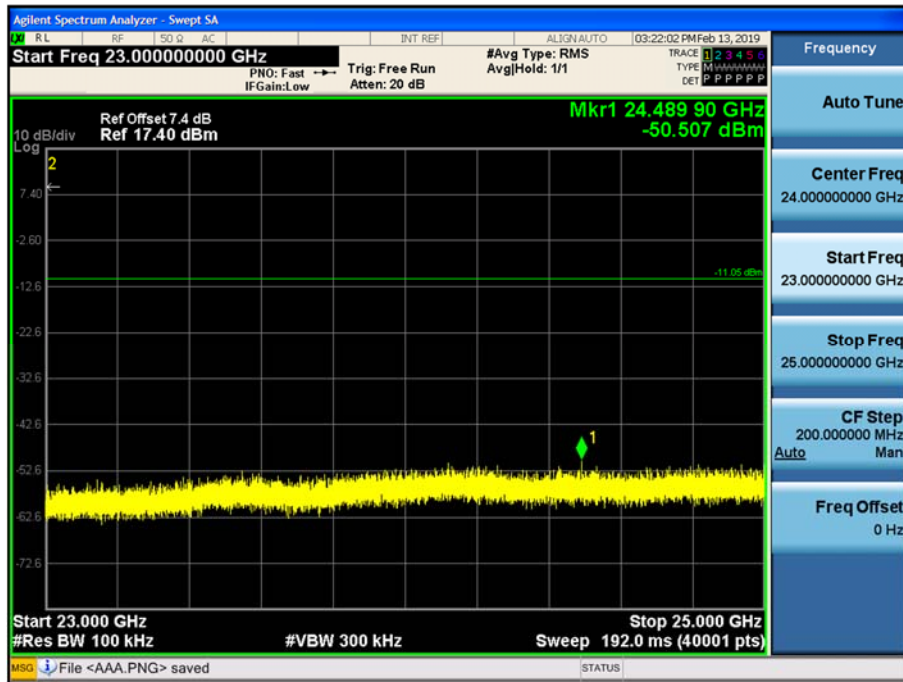
Test Plots (8DPSK)- 19 GHz - 21 GHz  
Spurious Emission (CH.0)



Test Plots (8DPSK)- 21 GHz - 23 GHz  
Spurious Emission (CH.0)



Test Plots (8DPSK)- 23 GHz - 25 GHz  
Spurious Emission (CH.0)



## 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.
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	47.98	0.74	V	48.72	73.98	25.26	PK
4804	34.64	0.74	V	35.38	53.98	18.60	AV
7206	45.73	9.25	V	54.98	73.98	19.01	PK
7206	32.30	9.25	V	41.55	53.98	12.44	AV
4804	49.35	0.74	H	50.09	73.98	23.89	PK
4804	34.94	0.74	H	35.68	53.98	18.30	AV
7206	46.28	9.25	H	55.53	73.98	18.46	PK
7206	32.35	9.25	H	41.60	53.98	12.39	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	48.12	0.74	V	48.86	73.98	25.12	PK
4804	34.75	0.74	V	35.49	53.98	18.49	AV
7206	45.78	9.25	V	55.03	73.98	18.96	PK
7206	32.40	9.25	V	41.65	53.98	12.34	AV
4804	48.35	0.74	H	49.09	73.98	24.89	PK
4804	34.80	0.74	H	35.54	53.98	18.44	AV
7206	46.18	9.25	H	55.43	73.98	18.56	PK
7206	32.35	9.25	H	41.60	53.98	12.39	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	47.94	0.74	V	48.68	73.98	25.30	PK
4804	34.79	0.74	V	35.53	53.98	18.45	AV
7206	45.63	9.25	V	54.88	73.98	19.11	PK
7206	32.43	9.25	V	41.68	53.98	12.31	AV
4804	48.55	0.74	H	49.29	73.98	24.69	PK
4804	34.83	0.74	H	35.57	53.98	18.41	AV
7206	45.99	9.25	H	55.24	73.98	18.75	PK
7206	32.44	9.25	H	41.69	53.98	12.30	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	48.14	1.16	V	49.3	73.98	24.68	PK
4882	34.82	1.16	V	35.98	53.98	18.00	AV
7323	46.25	9.14	V	55.39	73.98	18.59	PK
7323	32.19	9.14	V	41.33	53.98	12.65	AV
4882	49.17	1.16	H	50.33	73.98	23.65	PK
4882	34.95	1.16	H	36.11	53.98	17.87	AV
7323	46.74	9.14	H	55.88	73.98	18.10	PK
7323	32.28	9.14	H	41.42	53.98	12.56	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	48.12	1.16	V	49.28	73.98	24.70	PK
4882	34.55	1.16	V	35.71	53.98	18.27	AV
7323	45.99	9.14	V	55.13	73.98	18.85	PK
7323	32.16	9.14	V	41.3	53.98	12.68	AV
4882	48.58	1.16	H	49.74	73.98	24.24	PK
4882	34.67	1.16	H	35.83	53.98	18.15	AV
7323	46.78	9.14	H	55.92	73.98	18.06	PK
7323	32.25	9.14	H	41.39	53.98	12.59	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	47.86	1.16	V	49.02	73.98	24.96	PK
4882	34.58	1.16	V	35.74	53.98	18.24	AV
7323	46.28	9.14	V	55.42	73.98	18.56	PK
7323	32.19	9.14	V	41.33	53.98	12.65	AV
4882	48.68	1.16	H	49.84	73.98	24.14	PK
4882	34.69	1.16	H	35.85	53.98	18.13	AV
7323	46.50	9.14	H	55.64	73.98	18.34	PK
7323	32.22	9.14	H	41.36	53.98	12.62	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	49.87	0.76	V	50.63	73.98	23.35	PK
4960	36.78	0.76	V	37.54	53.98	16.44	AV
7440	44.89	9.86	V	54.75	73.98	19.23	PK
7440	31.74	9.86	V	41.6	53.98	12.38	AV
4960	50.17	0.76	H	50.93	73.98	23.05	PK
4960	37.10	0.76	H	37.86	53.98	16.12	AV
7440	45.41	9.86	H	55.27	73.98	18.71	PK
7440	32.02	9.86	H	41.88	53.98	12.10	AV

Operation Mode: CH High(8DPSK)

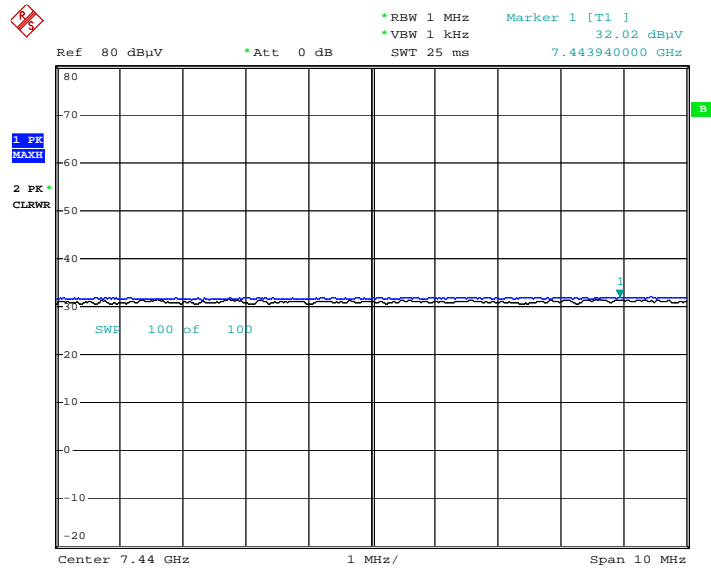
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	49.25	0.76	V	50.01	73.98	23.97	PK
4960	36.58	0.76	V	37.34	53.98	16.64	AV
7440	45.32	9.86	V	55.18	73.98	18.80	PK
7440	31.78	9.86	V	41.64	53.98	12.34	AV
4960	49.69	0.76	H	50.45	73.98	23.53	PK
4960	36.64	0.76	H	37.4	53.98	16.58	AV
7440	45.61	9.86	H	55.47	73.98	18.51	PK
7440	31.88	9.86	H	41.74	53.98	12.24	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	48.68	0.76	V	49.44	73.98	24.54	PK
4960	36.58	0.76	V	37.34	53.98	16.64	AV
7440	45.12	9.86	V	54.98	73.98	19.00	PK
7440	31.69	9.86	V	41.55	53.98	12.43	AV
4960	49.68	0.76	H	50.44	73.98	23.54	PK
4960	36.65	0.76	H	37.41	53.98	16.57	AV
7440	45.85	9.86	H	55.71	73.98	18.27	PK
7440	31.98	9.86	H	41.84	53.98	12.14	AV

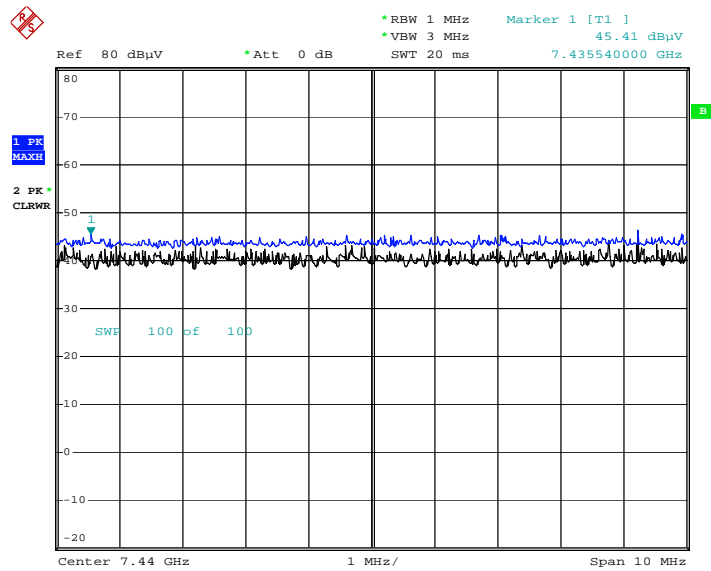
**RESULT PLOTS (Worst case : Y-H)**

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



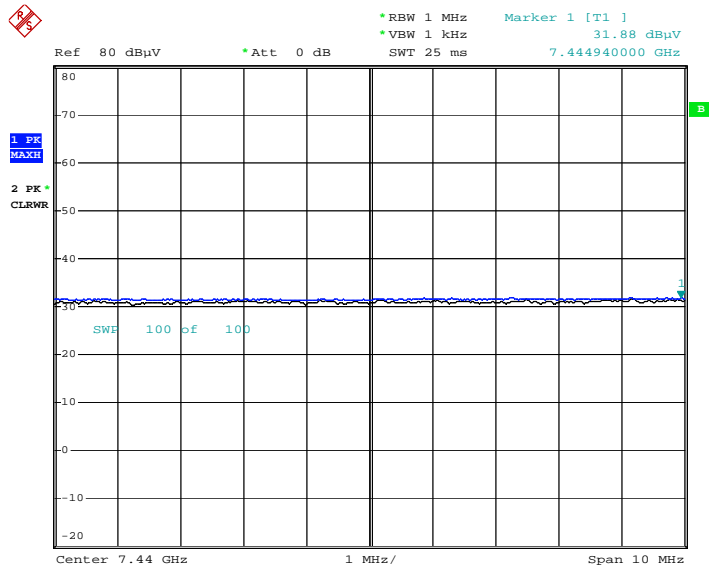
Date: 12.FEB.2019 10:22:16

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



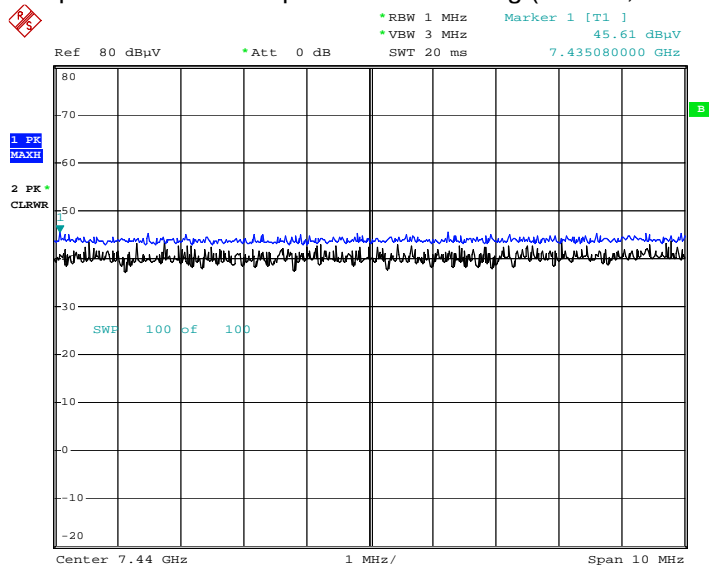
Date: 12.FEB.2019 10:19:28

Radiated Spurious Emissions plot – Average Reading (8DPSK, Ch.78 2nd Harmonic)



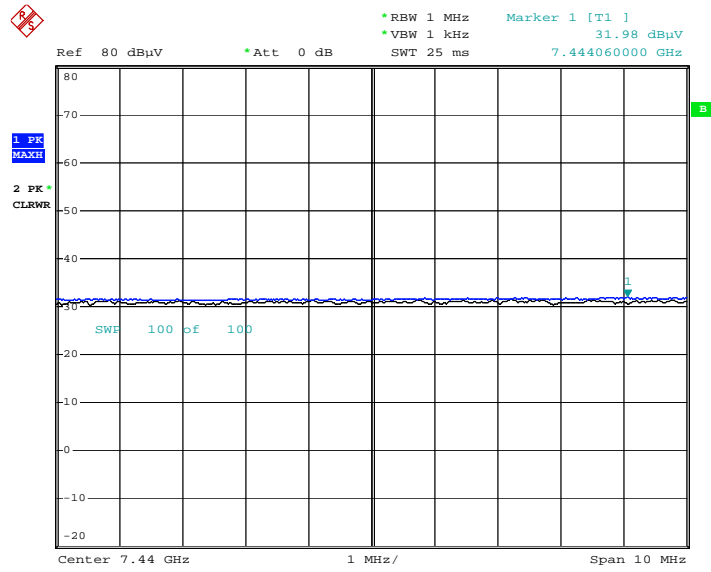
Date: 12.FEB.2019 10:21:25

Radiated Spurious Emissions plot – Peak Reading (8DPSK, Ch.78 2nd Harmonic)



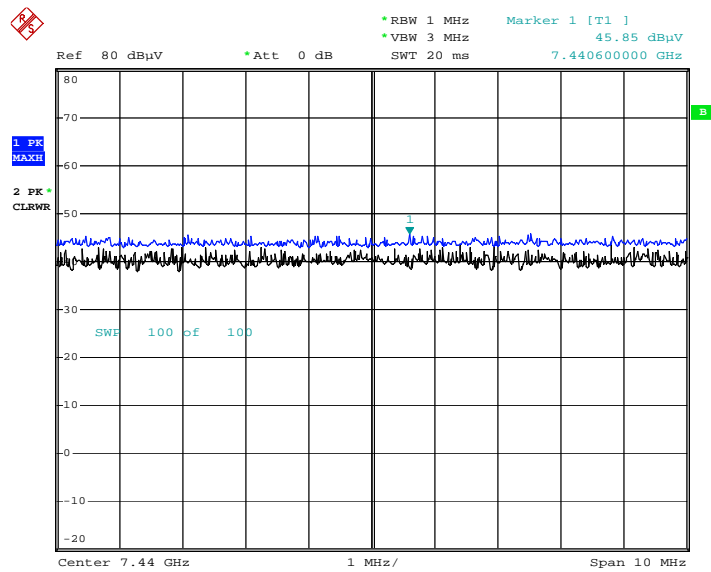
Date: 12.FEB.2019 10:21:48

Radiated Spurious Emissions plot – Average Reading ( $\pi/4$ DQPSK, Ch.78 2nd Harmonic)



Date: 12.FEB.2019 10:20:35

Radiated Spurious Emissions plot – Peak Reading ( $\pi/4$ DQPSK, Ch.78 2nd Harmonic)



Date: 12.FEB.2019 10:20:58

**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	19.21	33.29	H	52.50	73.98	21.48	PK
2390.0	8.49	33.29	H	41.78	53.98	12.20	AV
2390.0	19.28	33.29	V	52.57	73.98	21.41	PK
2390.0	8.53	33.29	V	41.82	53.98	12.16	AV
2483.5	25.06	33.39	H	58.45	73.98	15.53	PK
2483.5	9.77	33.39	H	43.16	53.98	10.82	AV
2483.5	25.17	33.39	V	58.56	73.98	15.42	PK
2483.5	9.86	33.39	V	43.25	53.98	10.73	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	18.26	33.29	H	51.55	73.98	22.43	PK
2390.0	8.48	33.29	H	41.77	53.98	12.21	AV
2390.0	19.04	33.29	V	52.33	73.98	21.65	PK
2390.0	8.52	33.29	V	41.81	53.98	12.18	AV
2483.5	25.52	33.39	H	58.91	73.98	15.07	PK
2483.5	10.89	33.39	H	44.28	53.98	9.71	AV
2483.5	25.72	33.39	V	59.11	73.98	14.87	PK
2483.5	10.90	33.39	V	44.29	53.98	9.69	AV

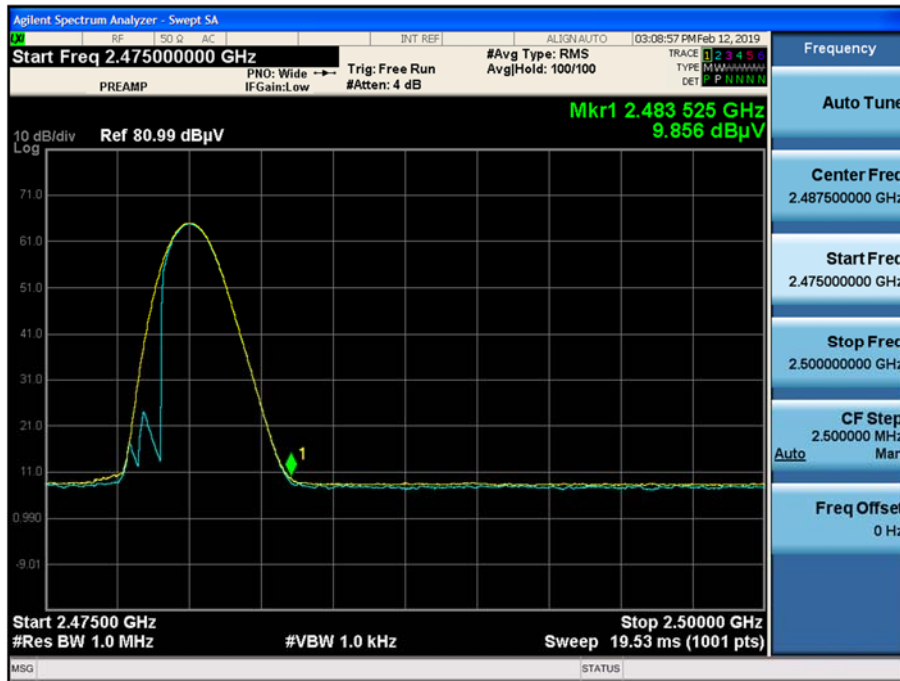
Operation Mode EDR( $\pi$ /4DQPSK)  
 Operating Frequency 2402 MHz, 2480 MHz  
 Channel No CH 0, CH 78

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	18.36	33.29	H	51.65	73.98	22.33	PK
2390.0	8.43	33.29	H	41.72	53.98	12.26	AV
2390.0	18.74	33.29	V	52.03	73.98	21.95	PK
2390.0	8.49	33.29	V	41.78	53.98	12.20	AV
2483.5	25.03	33.39	H	58.42	73.98	15.57	PK
2483.5	10.71	33.39	H	44.10	53.98	9.88	AV
2483.5	25.18	33.39	V	58.57	73.98	15.41	PK
2483.5	10.76	33.39	V	44.15	53.98	9.83	AV

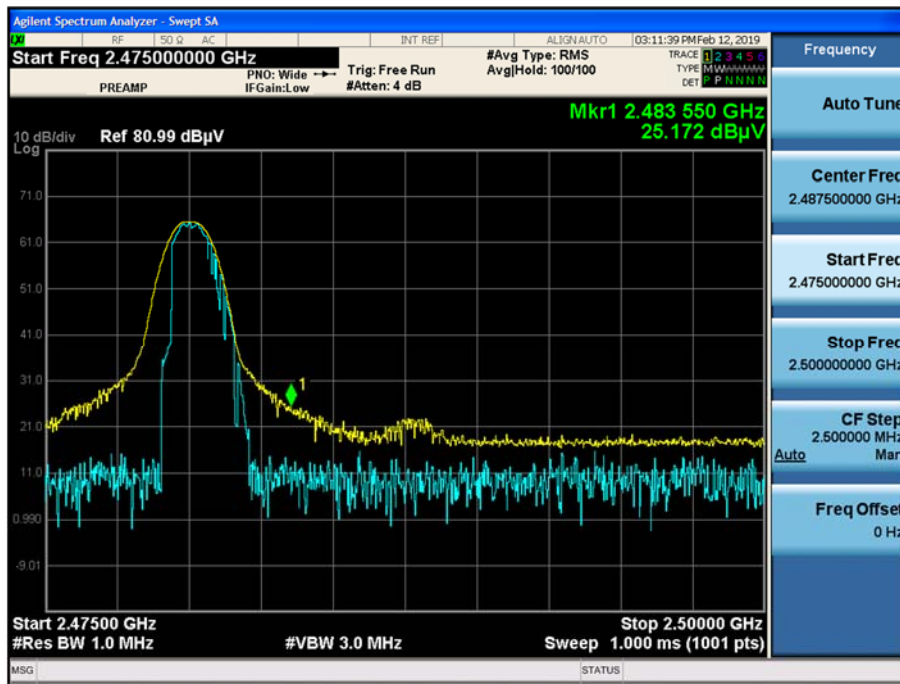


**RESULT PLOTS (Worst case : Z-V)**

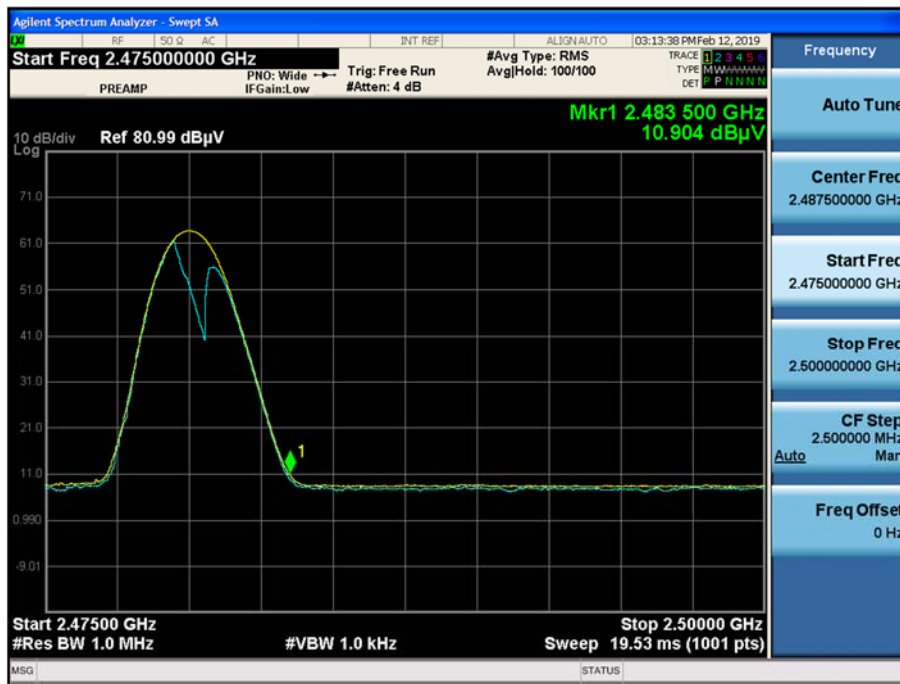
Radiated Restricted Band Edges plot – Average Reading (GFSK, Ch.78)



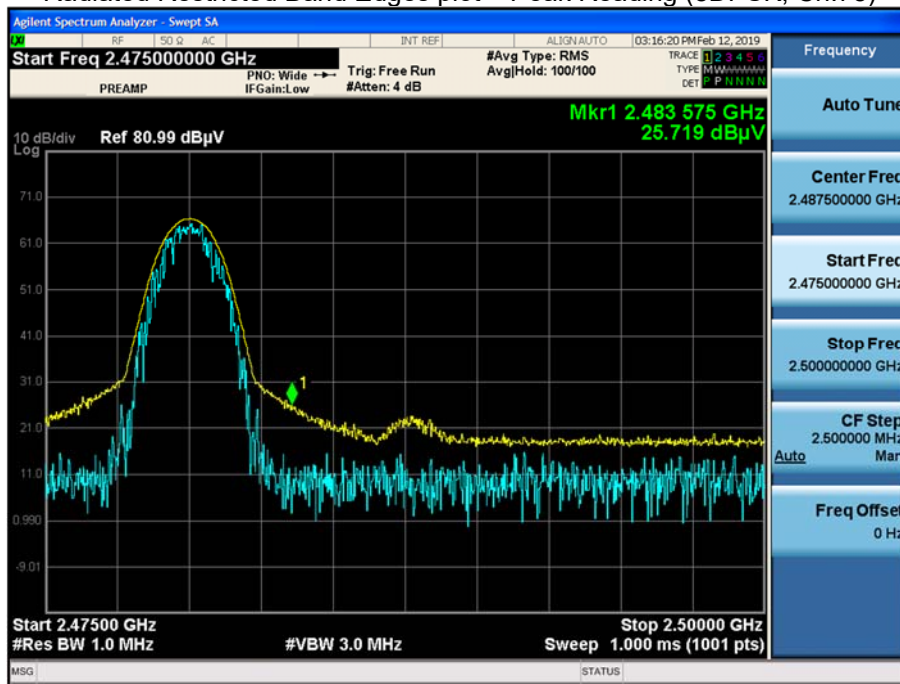
Radiated Restricted Band Edges plot – Peak Reading (GFSK, Ch.78)



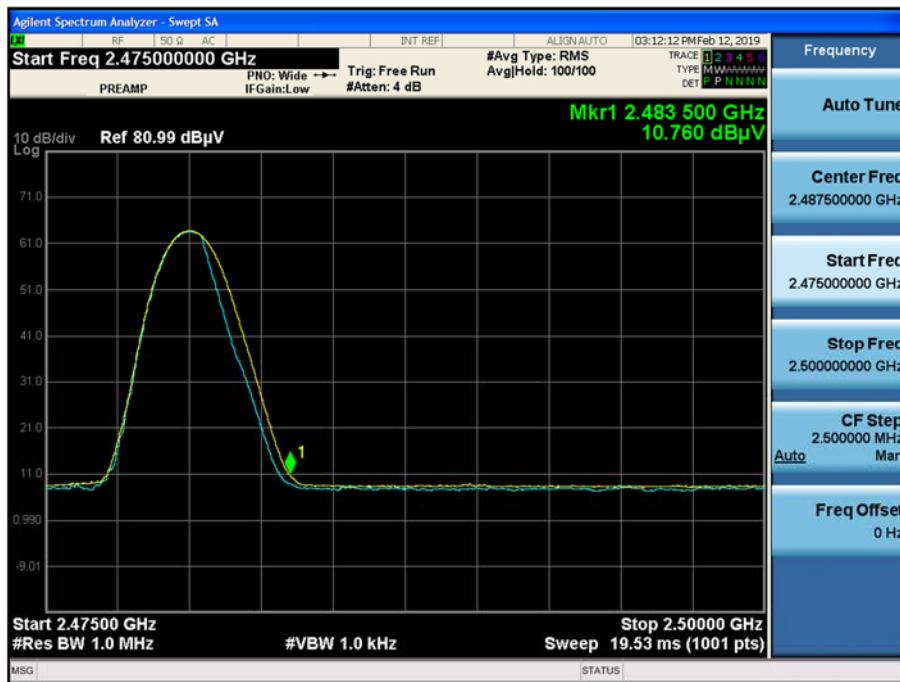
Radiated Restricted Band Edges plot – Average Reading (8DPSK, Ch.78)



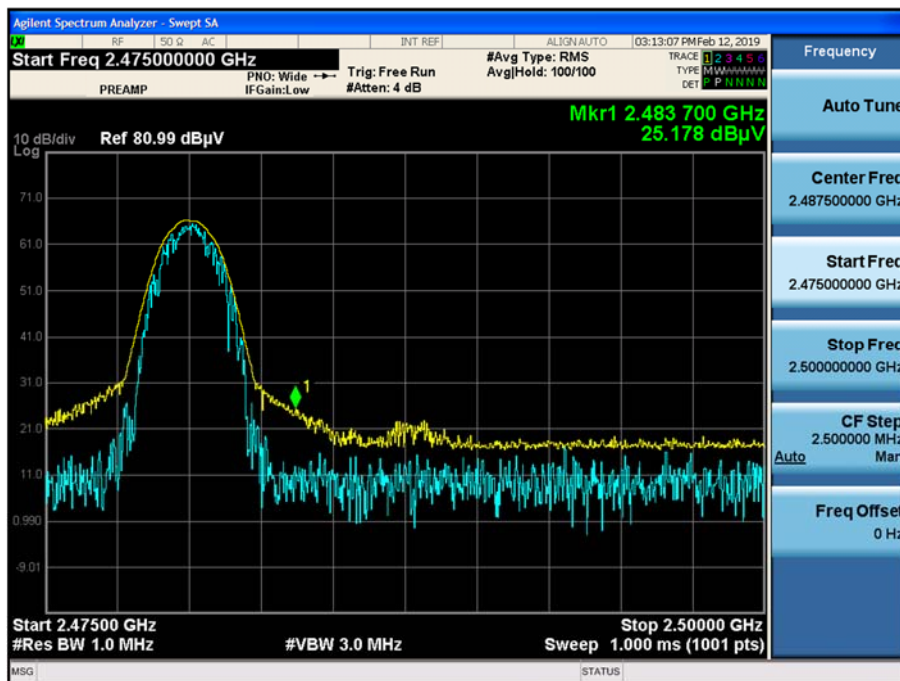
Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78)



Radiated Restricted Band Edges plot – Average Reading ( $\pi/4$ 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 L1

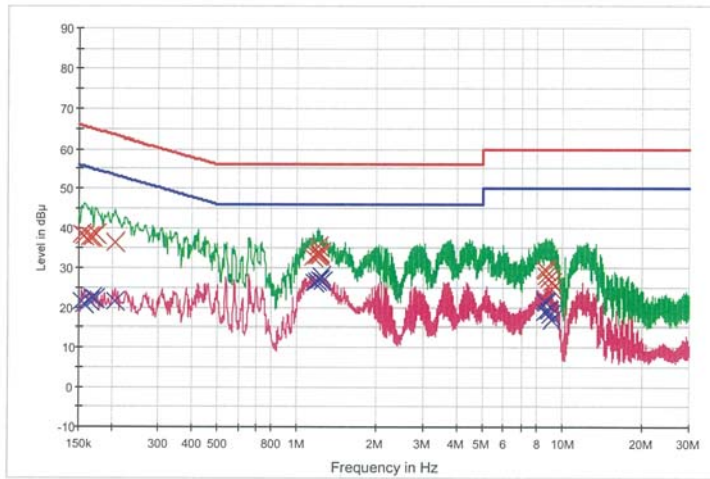
1 / 2

## HCT TEST Report

### Common Information

EUT: SM-A6060  
 Manufacturer: SAMSUNG  
 Test Site: SHIELD ROOM  
 Operating Conditions: BT L1

FCC CLASS B\_Exten Cable



— FCC CLASS B\_QP      — FCC CLASS B\_AV      — Preview Result 1-PK+  
 × Final 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)
0.154000	38.4	9.000	Off	L1	9.7	27.3	65.8
0.158000	38.2	9.000	Off	L1	9.7	27.4	65.6
0.164000	37.6	9.000	Off	L1	9.7	27.6	65.3
0.168000	37.9	9.000	Off	L1	9.7	27.2	65.1
0.174000	38.6	9.000	Off	L1	9.7	26.2	64.8
0.206000	36.4	9.000	Off	L1	9.7	26.9	63.4
1.152000	32.6	9.000	Off	L1	9.8	23.4	56.0
1.188000	33.0	9.000	Off	L1	9.8	23.0	56.0
1.198000	33.7	9.000	Off	L1	9.8	22.3	56.0
1.206000	35.3	9.000	Off	L1	9.8	20.7	56.0
1.212000	32.9	9.000	Off	L1	9.8	23.1	56.0
1.216000	33.6	9.000	Off	L1	9.8	22.4	56.0
8.598000	29.5	9.000	Off	L1	10.2	30.5	60.0
8.680000	29.5	9.000	Off	L1	10.2	30.5	60.0
8.702000	28.1	9.000	Off	L1	10.2	31.9	60.0
8.898000	27.2	9.000	Off	L1	10.2	32.8	60.0
9.116000	26.2	9.000	Off	L1	10.2	33.8	60.0
9.120000	24.6	9.000	Off	L1	10.2	35.4	60.0

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BT L1

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**Final Result 2**

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	21.6	9.000	Off	L1	9.7	34.2	55.8
0.158000	20.8	9.000	Off	L1	9.7	34.7	55.6
0.164000	21.7	9.000	Off	L1	9.7	33.6	55.3
0.168000	22.5	9.000	Off	L1	9.7	32.5	55.1
0.172000	22.1	9.000	Off	L1	9.7	32.7	54.9
0.206000	21.4	9.000	Off	L1	9.7	32.0	53.4
1.162000	26.4	9.000	Off	L1	9.8	19.6	46.0
1.186000	26.7	9.000	Off	L1	9.8	19.3	46.0
1.212000	26.9	9.000	Off	L1	9.8	19.1	46.0
1.216000	26.9	9.000	Off	L1	9.8	19.1	46.0
1.234000	28.0	9.000	Off	L1	9.8	18.0	46.0
1.242000	26.4	9.000	Off	L1	9.9	19.6	46.0
8.580000	18.8	9.000	Off	L1	10.2	31.2	50.0
8.598000	21.4	9.000	Off	L1	10.2	28.6	50.0
8.680000	21.0	9.000	Off	L1	10.2	29.0	50.0
8.860000	19.2	9.000	Off	L1	10.2	30.8	50.0
8.980000	18.2	9.000	Off	L1	10.2	31.8	50.0
9.116000	16.7	9.000	Off	L1	10.2	33.3	50.0

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**Conducted Emissions (Line 2)**

BT N

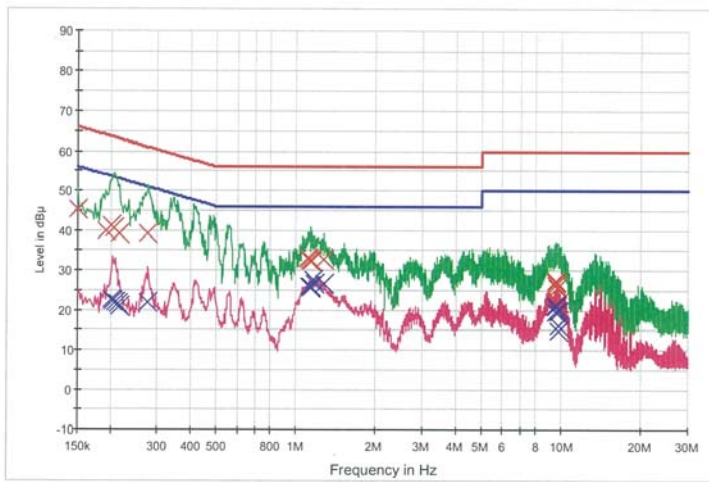
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**HCT TEST Report**

**Common Information**

EUT: SM-A6060  
 Manufacturer: SAMSUNG  
 Test Site: SHIELD ROOM  
 Operating Conditions: BT N

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	45.3	9.000	Off	N	9.8	20.7	66.0
0.192000	39.8	9.000	Off	N	9.8	24.2	63.9
0.200000	41.1	9.000	Off	N	9.9	22.5	63.6
0.206000	40.6	9.000	Off	N	9.9	22.8	63.4
0.216000	39.1	9.000	Off	N	9.9	23.8	63.0
0.276000	39.3	9.000	Off	N	9.9	21.7	60.9
1.108000	33.1	9.000	Off	N	10.0	22.9	56.0
1.116000	32.6	9.000	Off	N	10.0	23.4	56.0
1.130000	32.3	9.000	Off	N	10.0	23.8	56.0
1.140000	32.5	9.000	Off	N	10.0	23.5	56.0
1.146000	32.3	9.000	Off	N	10.0	23.7	56.0
1.270000	32.8	9.000	Off	N	10.0	23.2	56.0
9.490000	27.2	9.000	Off	N	10.4	32.8	60.0
9.542000	26.4	9.000	Off	N	10.4	33.6	60.0
9.576000	27.0	9.000	Off	N	10.4	33.0	60.0
9.580000	27.0	9.000	Off	N	10.4	33.0	60.0
9.640000	25.8	9.000	Off	N	10.4	34.2	60.0
9.790000	21.9	9.000	Off	N	10.4	38.1	60.0

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BT N

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**Final Result 2**

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.200000	22.6	9.000	Off	N	9.9	31.0	53.6
0.204000	22.3	9.000	Off	N	9.9	31.1	53.4
0.208000	21.9	9.000	Off	N	9.9	31.4	53.3
0.212000	21.7	9.000	Off	N	9.9	31.5	53.1
0.216000	20.9	9.000	Off	N	9.9	32.0	53.0
0.276000	21.7	9.000	Off	N	9.9	29.2	50.9
1.122000	26.0	9.000	Off	N	10.0	20.0	46.0
1.130000	25.8	9.000	Off	N	10.0	20.2	46.0
1.134000	25.6	9.000	Off	N	10.0	20.4	46.0
1.166000	27.5	9.000	Off	N	10.0	18.5	46.0
1.180000	26.7	9.000	Off	N	10.0	19.3	46.0
1.270000	26.7	9.000	Off	N	10.0	19.3	46.0
9.490000	21.2	9.000	Off	N	10.4	28.8	50.0
9.542000	19.3	9.000	Off	N	10.4	30.7	50.0
9.576000	21.0	9.000	Off	N	10.4	29.0	50.0
9.762000	19.4	9.000	Off	N	10.4	30.6	50.0
9.790000	14.9	9.000	Off	N	10.4	35.1	50.0
9.802000	16.0	9.000	Off	N	10.4	34.0	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	N9020A / Signal Analyzer	06/08/2018	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	04/16/2018	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
Chang Woo Inc.	18N-20dB / Attenuator(20 dB)	05/09/2018	Annual	8
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
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	HFH2-Z2 / Loop Antenna	06/15/2017	Biennial	100341
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	05/02/2017	Biennial	9120D-937
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	06/08/2018	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/07/2018	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/09/2018	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8BEEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	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	03/27/2018	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-FC009-P
2	HCT-RF-1903-FC010-P
3	HCT-RF-1903-FC011-P
4	HCT-RF-1903-FC012-P
5	HCT-RF-1903-FC013-P
6	HCT-RF-1903-FC014-P
7	HCT-RF-1903-FC015-P