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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant0	2402	Reference	7.47	7.47	---	PASS
			30~1000	7.47	-60.01	≤-12.53	PASS
			1000~26500	7.47	-45.45	≤-12.53	PASS
		2441	Reference	9.05	9.05	---	PASS
			30~1000	9.05	-59.78	≤-10.95	PASS
			1000~26500	9.05	-46.2	≤-10.95	PASS
		2480	Reference	9.85	9.85	---	PASS
			30~1000	9.85	-59.53	≤-10.15	PASS
			1000~26500	9.85	-45.41	≤-10.15	PASS
2DH5	Ant0	2402	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-60.17	≤-15.86	PASS
			1000~26500	4.14	-46.17	≤-15.86	PASS
		2441	Reference	4.48	4.48	---	PASS
			30~1000	4.48	-59.86	≤-15.52	PASS
			1000~26500	4.48	-45.38	≤-15.52	PASS
		2480	Reference	8.72	8.72	---	PASS
			30~1000	8.72	-60.28	≤-11.28	PASS
			1000~26500	8.72	-45.82	≤-11.28	PASS
3DH5	Ant0	2402	Reference	5.76	5.76	---	PASS
			30~1000	5.76	-60.24	≤-14.24	PASS
			1000~26500	5.76	-46.06	≤-14.24	PASS
		2441	Reference	7.38	7.38	---	PASS
			30~1000	7.38	-60.21	≤-12.62	PASS
			1000~26500	7.38	-45.9	≤-12.62	PASS
		2480	Reference	7.97	7.97	---	PASS
			30~1000	7.97	-59.68	≤-12.03	PASS
			1000~26500	7.97	-45.64	≤-12.03	PASS



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Test Graphs



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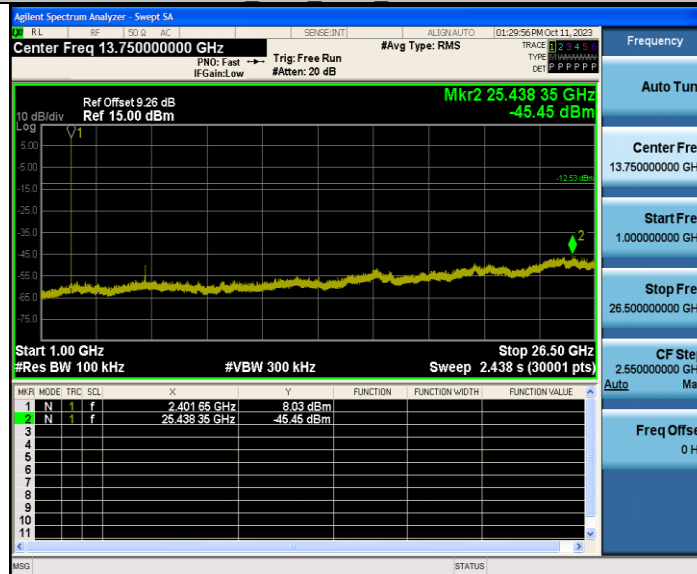
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DH5 Ant0 2402 1000~26500



DH5 Ant0 2441 0~Reference



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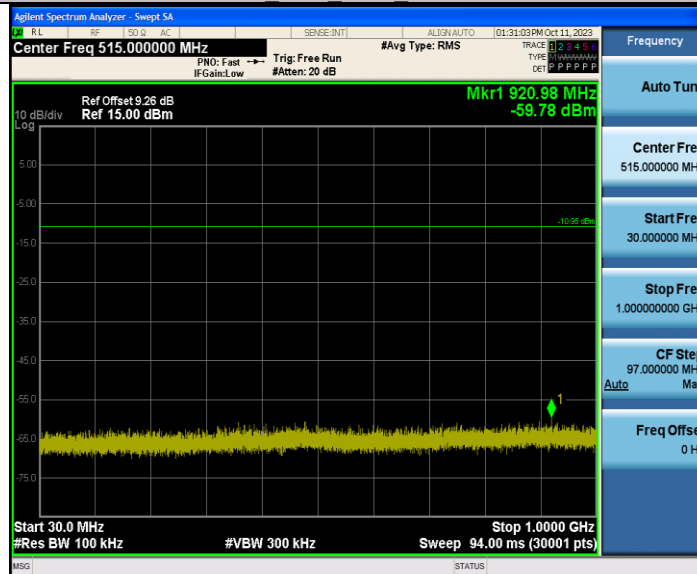
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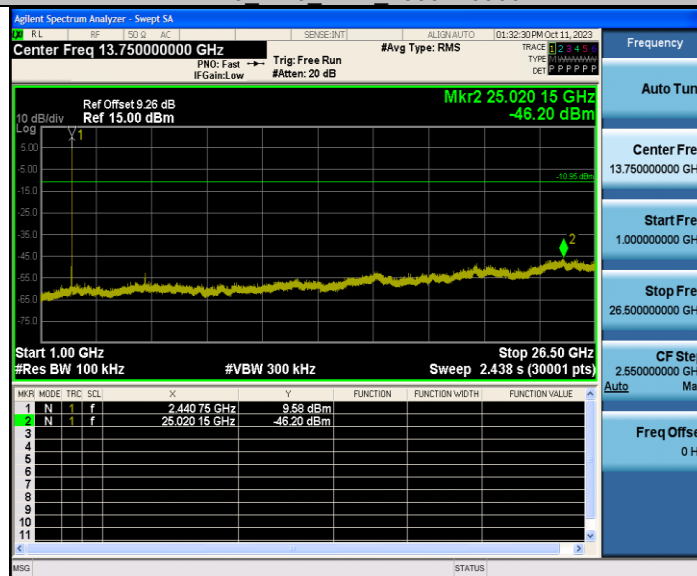
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DH5 Ant0 2441 30~1000



DH5 Ant0 2441 1000~26500



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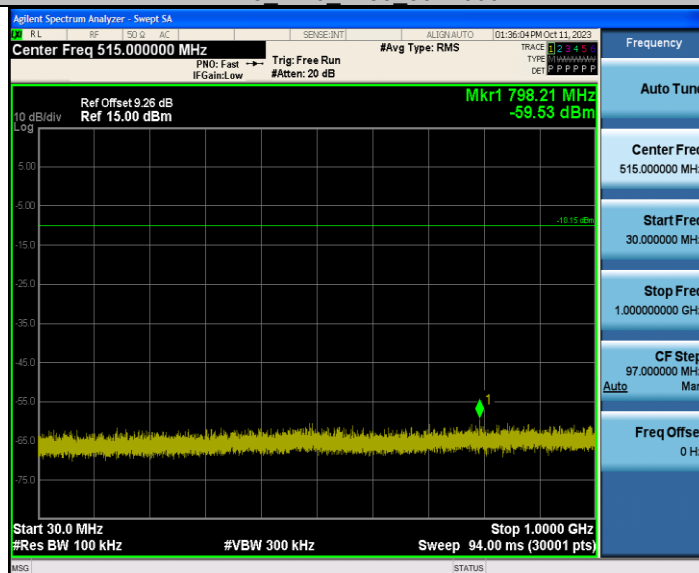
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DH5 Ant0 2480 0~Reference



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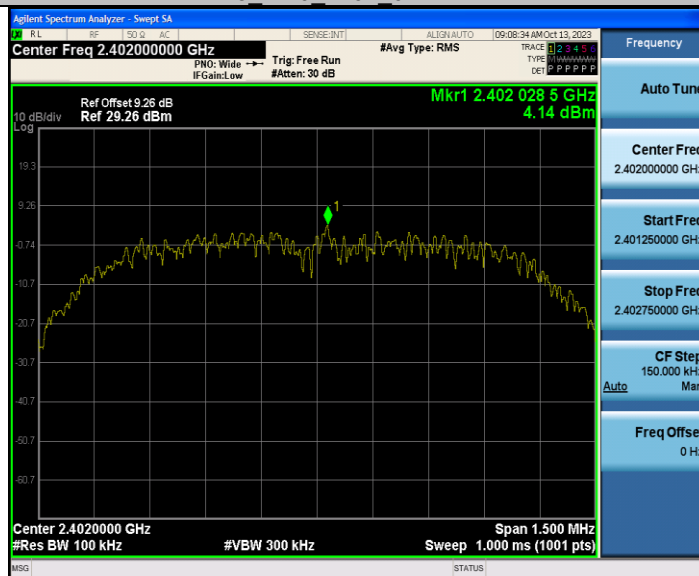
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DH5 Ant0 2480 1000~26500



2DH5 Ant0 2402 0~Reference



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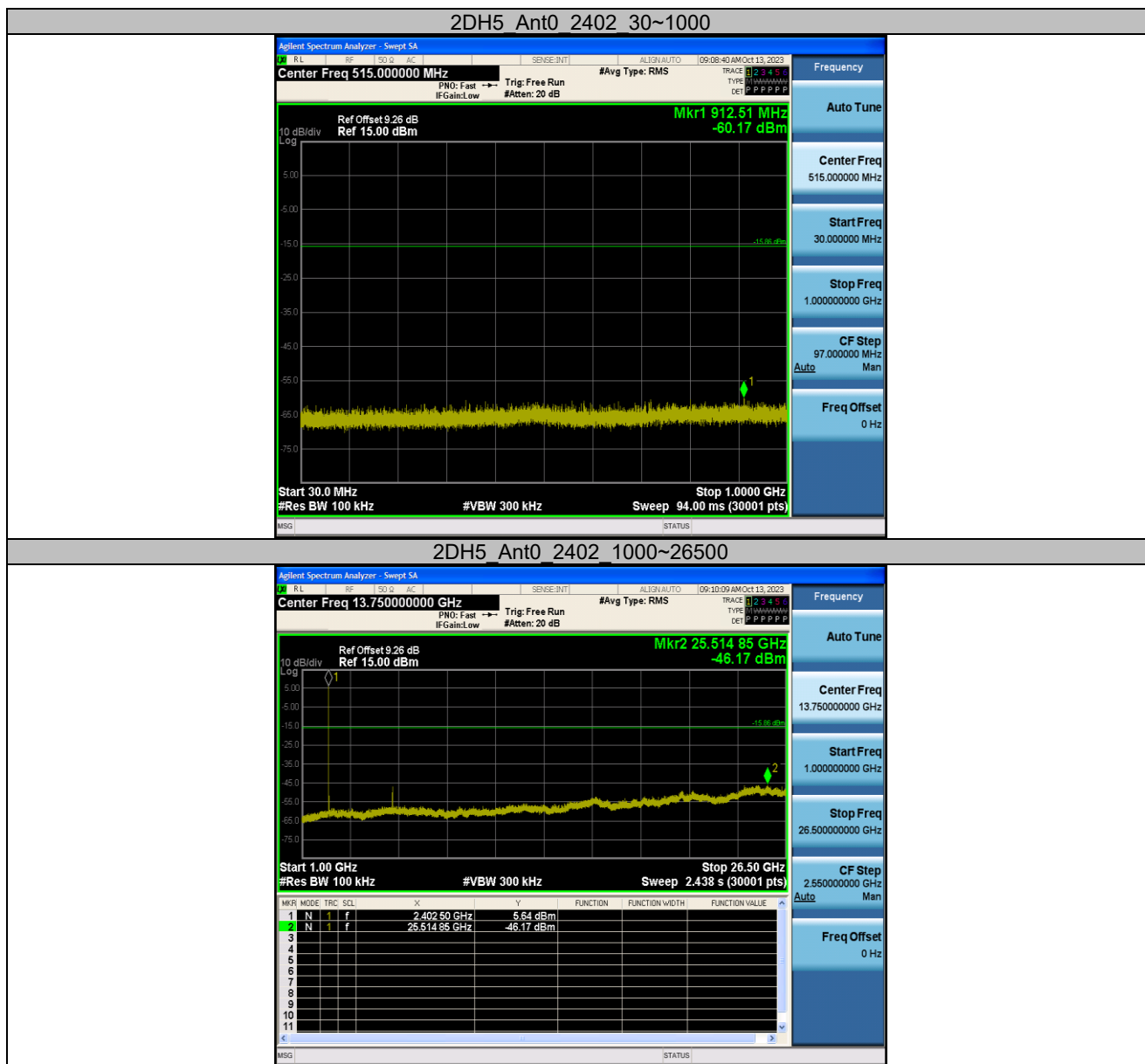
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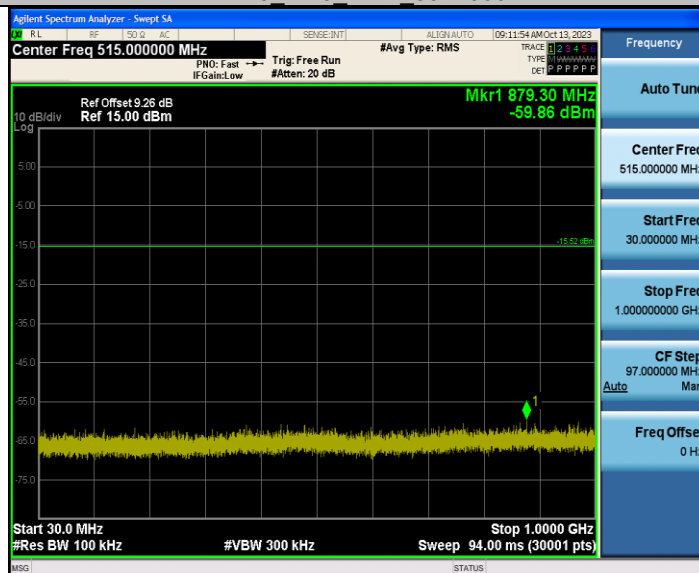
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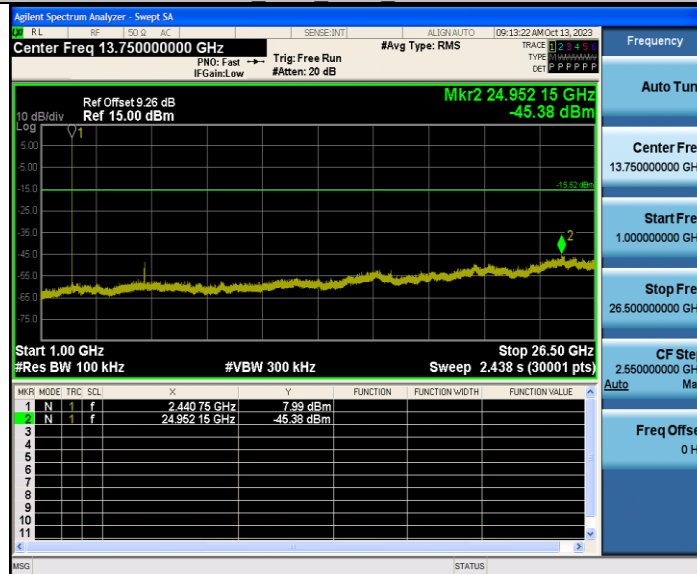
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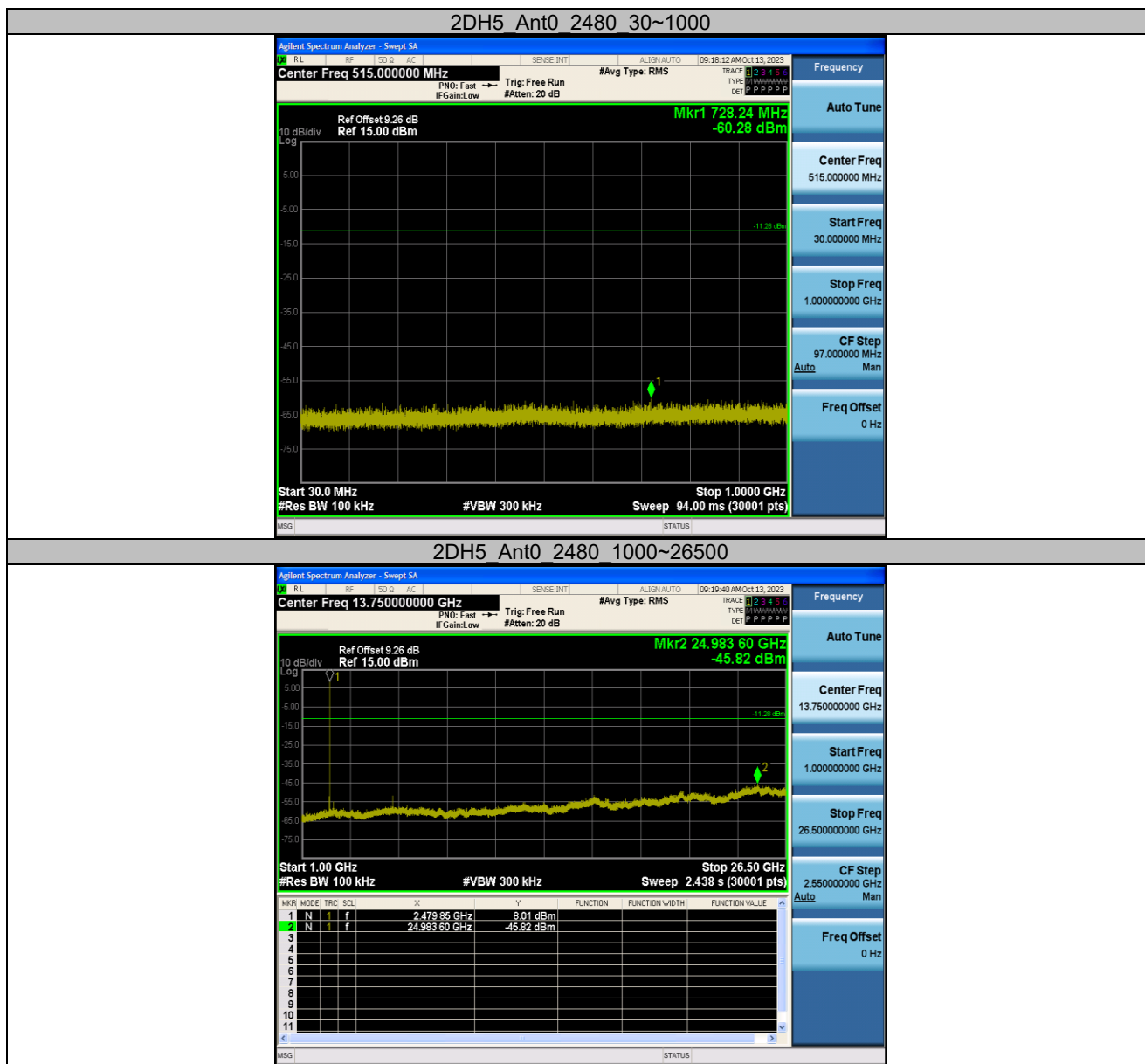
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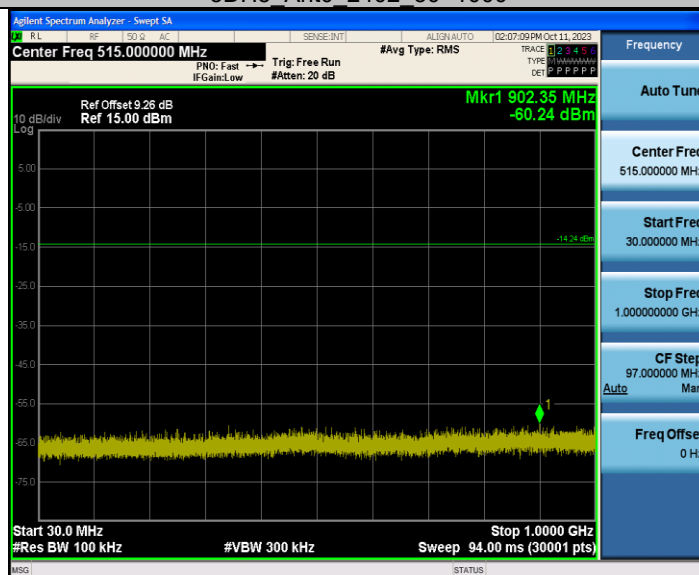
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3DH5 Ant0 2402 0~Reference



3DH5 Ant0 2402 30~1000



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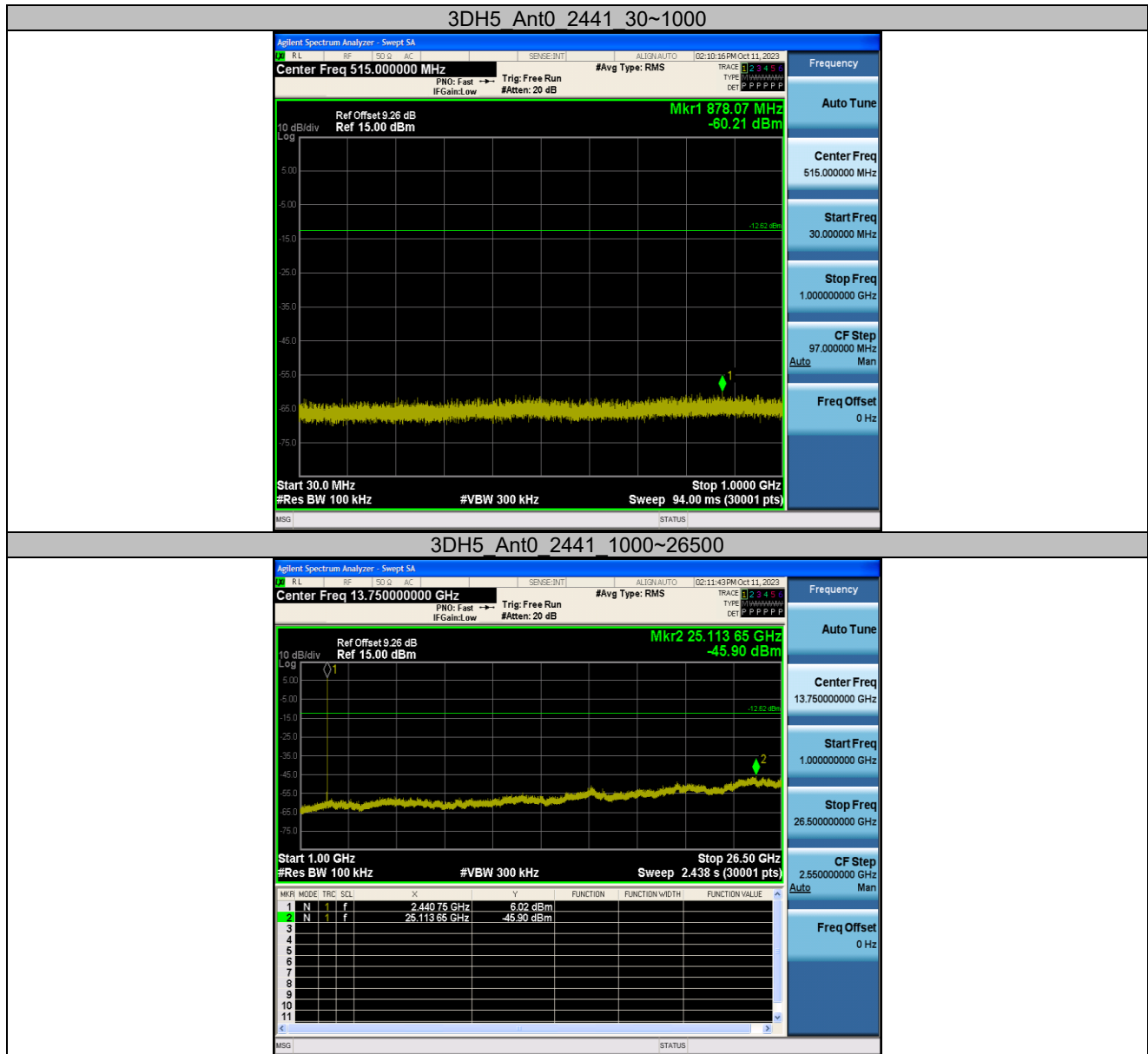
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Report No.: XEWA2310000070RG01

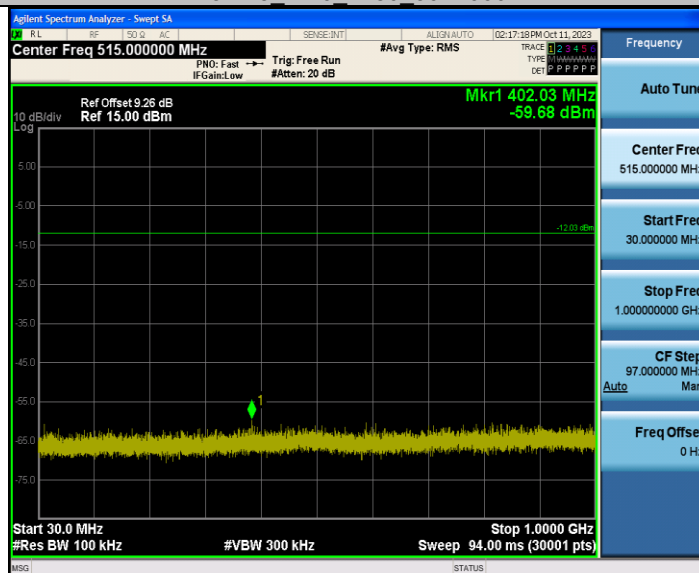
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3DH5 Ant0 2480 0~Reference



3DH5 Ant0 2480 30~1000



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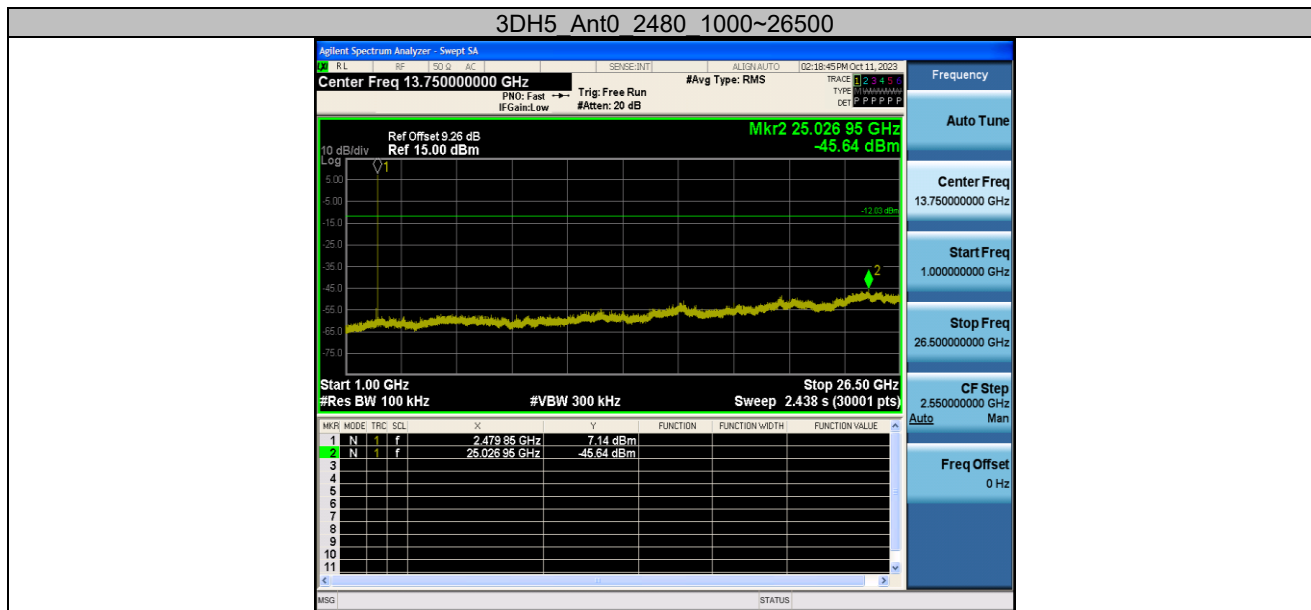
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant0	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
2DH5	Ant0	2402	2.89	3.75	77.07	1.13
		2441	2.90	3.76	77.13	1.13
		2480	2.89	3.75	77.07	1.13
3DH5	Ant0	2402	2.88	3.74	77.01	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13

Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78%

Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB



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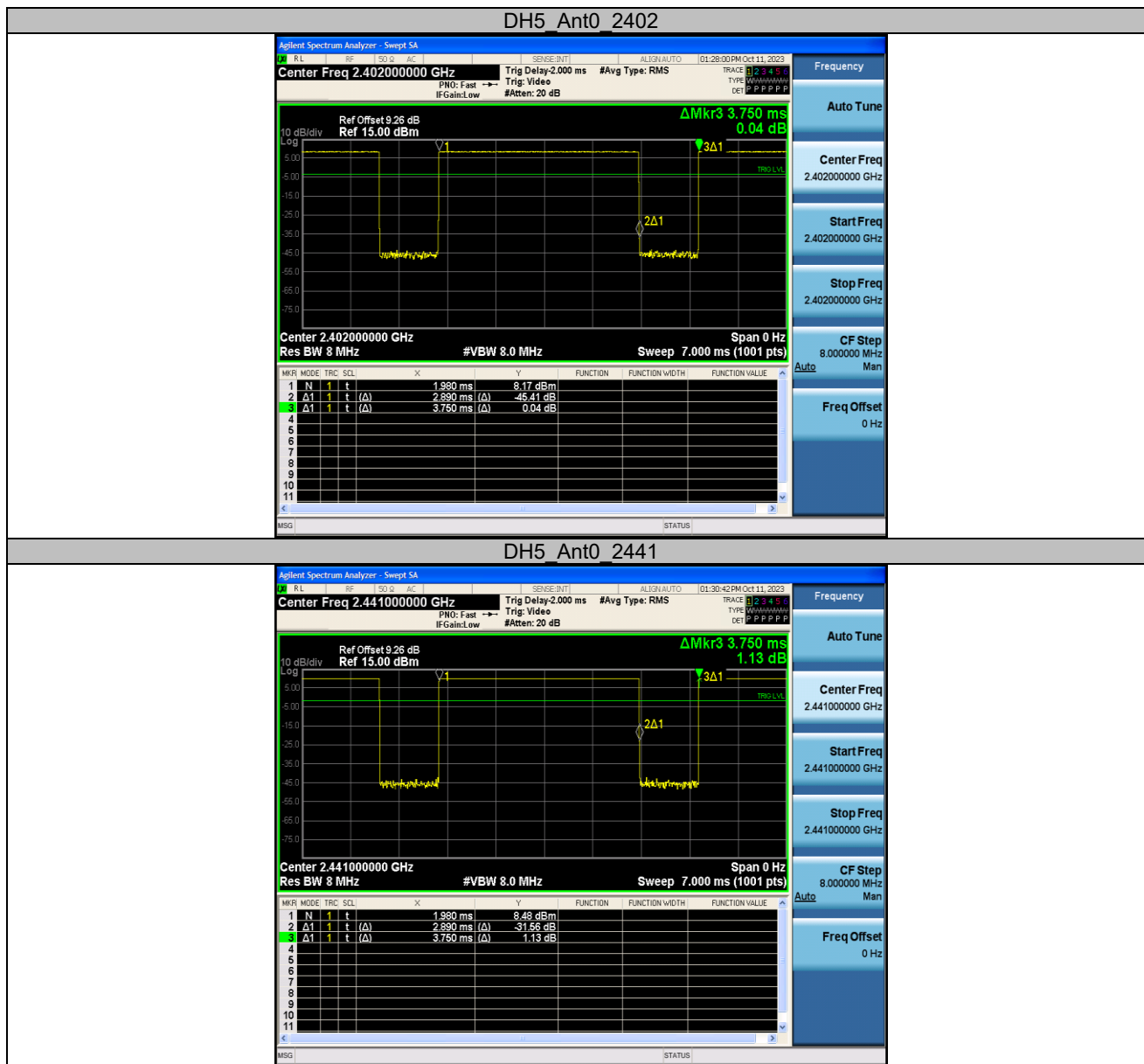
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Test Graphs



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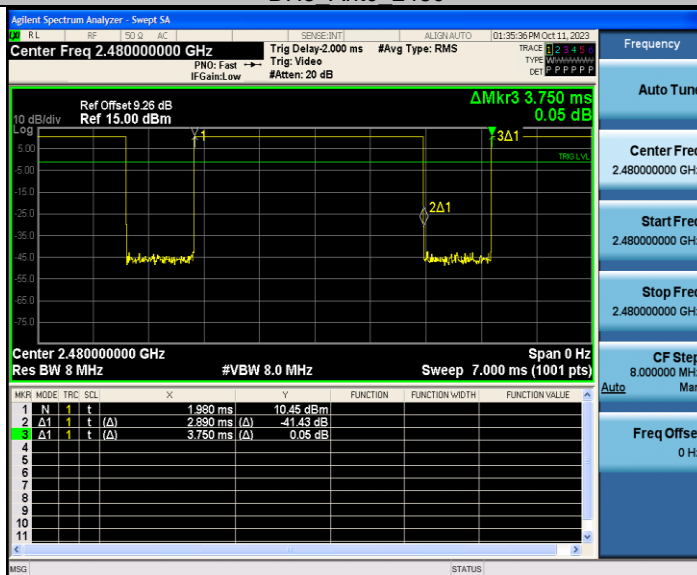
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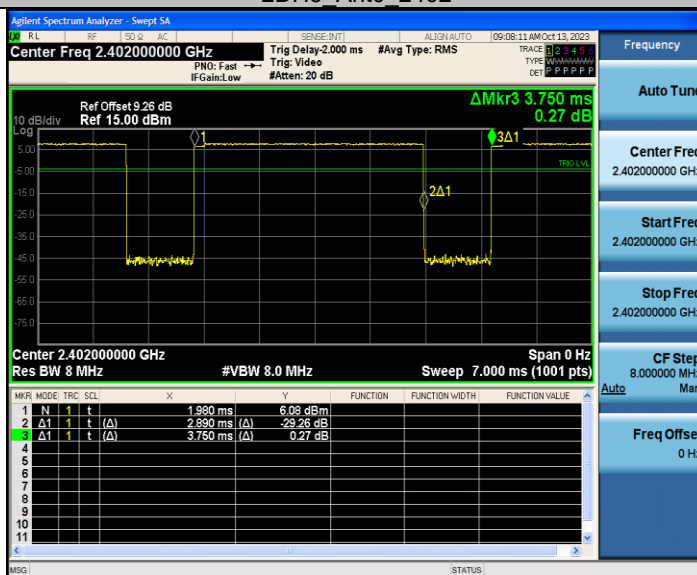
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DH5 Ant0 2480



2DH5 Ant0 2402

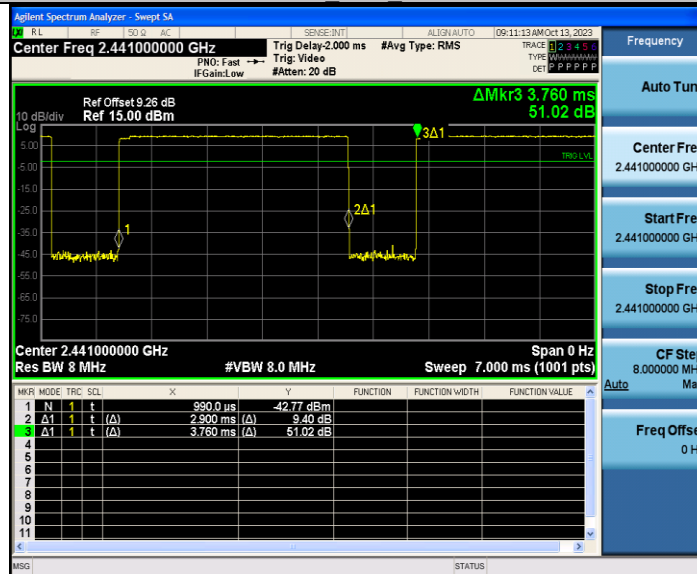


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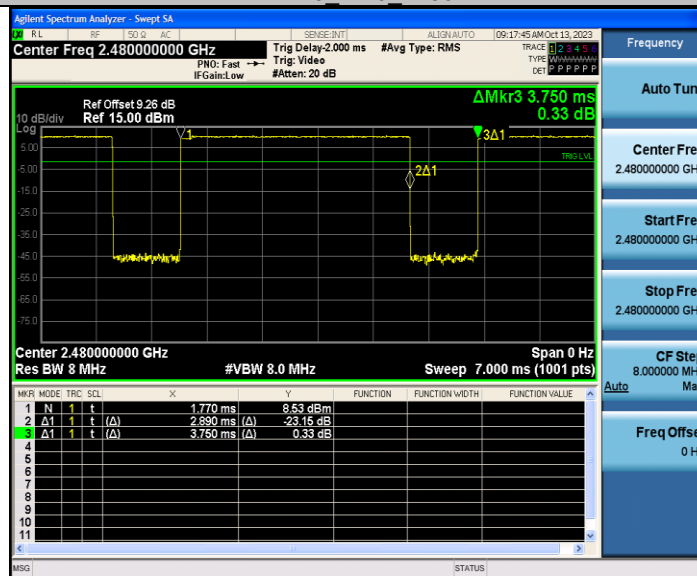
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2DH5 Ant0 2441



2DH5 Ant0 2480

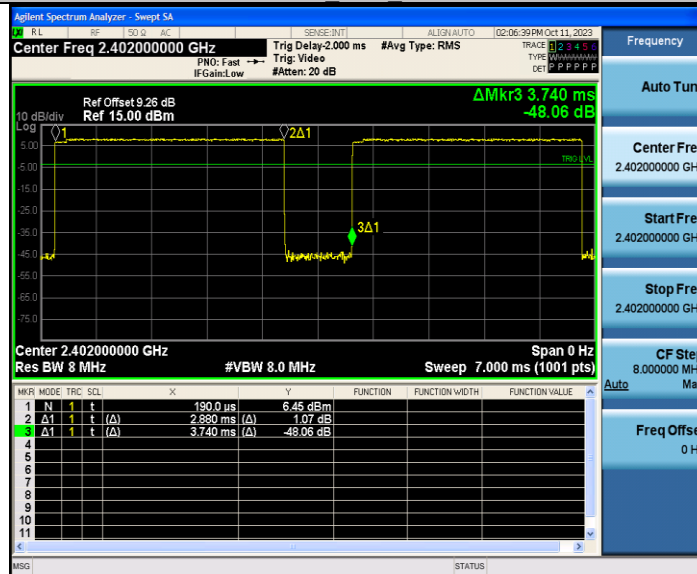


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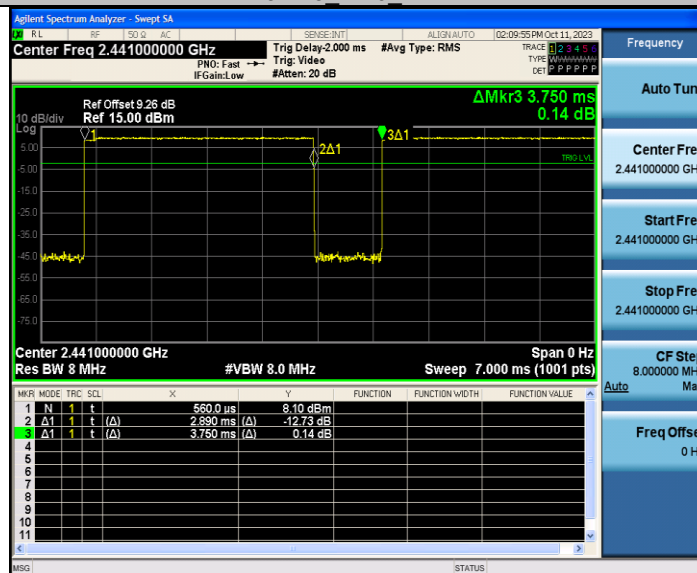
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3DH5 Ant0 2402



3DH5 Ant0 2441

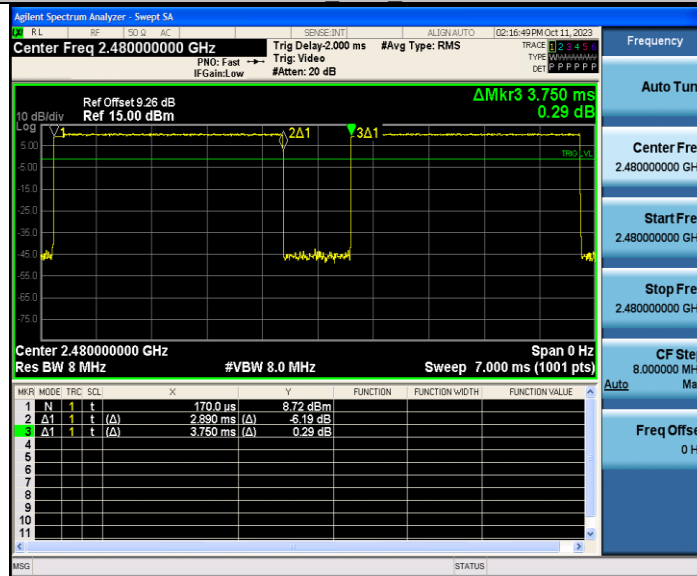


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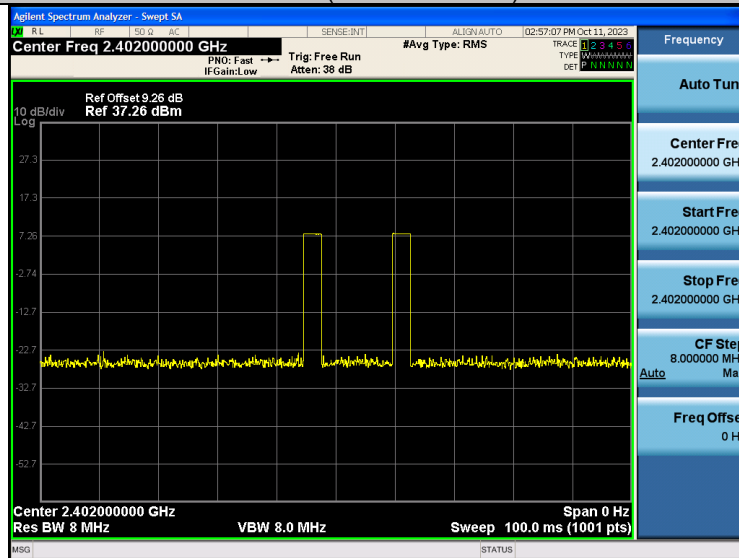
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3DH5 Ant0 2480



On time(Channel number)



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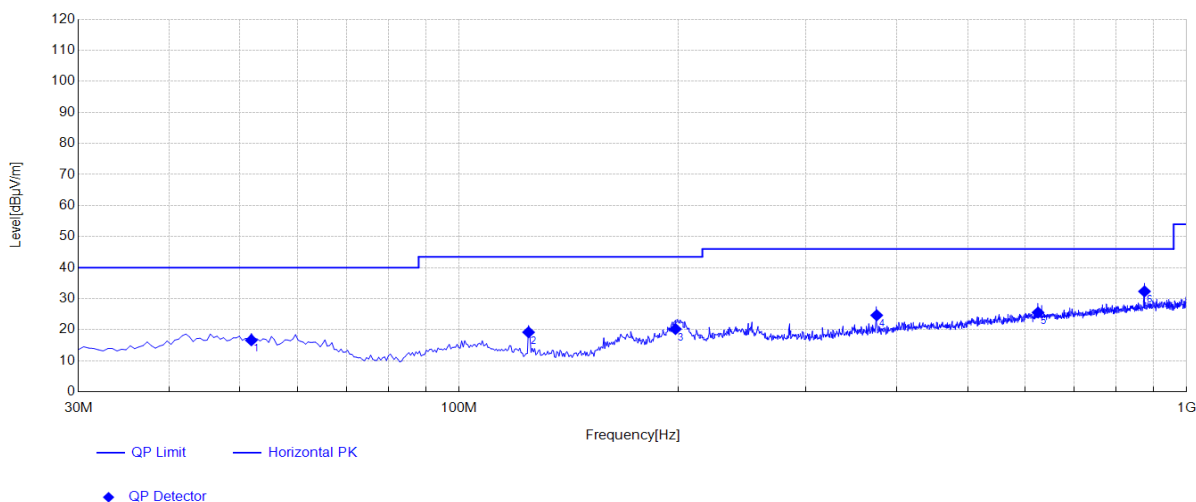
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78

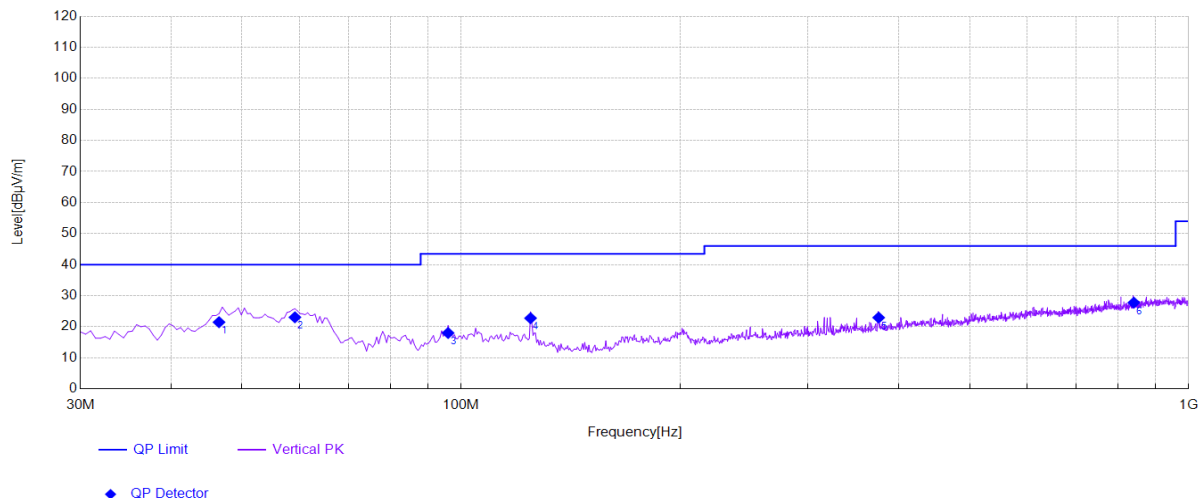


Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	51.8359	14.13	-27.75	30.24	16.62	40.00	23.38	Horizontal
2	124.6223	8.70	-27.04	37.54	19.20	43.50	24.30	Horizontal
3	198.3792	11.28	-26.37	35.33	20.24	43.50	23.26	Horizontal
4	375.0075	14.90	-25.60	35.36	24.66	46.00	21.34	Horizontal
5	624.9075	19.10	-24.64	31.09	25.55	46.00	20.45	Horizontal
6	875.2926	21.79	-23.74	34.3	32.35	46.00	13.65	Horizontal

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Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	46.4982	14.20	-27.79	35.07	21.48	40.00	18.52	Vertical
2	59.1146	12.49	-27.95	38.51	23.05	40.00	16.95	Vertical
3	95.993	10.80	-27.32	34.52	18.00	43.50	25.50	Vertical
4	124.6223	8.70	-27.04	41.11	22.77	43.50	20.73	Vertical
5	375.0075	14.90	-25.60	33.65	22.95	46.00	23.05	Vertical
6	840.8404	21.32	-23.99	30.43	27.76	46.00	18.24	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Value} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB/m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB/m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V/m}) - \text{Value}(\text{dB}\mu\text{V/m})$$
- All channels have been tested, but only the worst case data displayed in this report.



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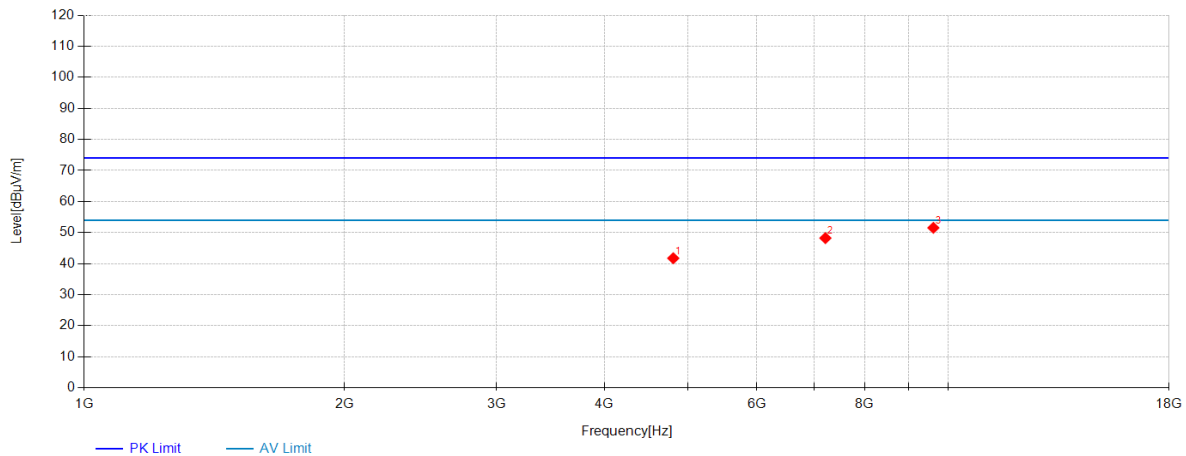
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Transmitter emission Above 1GHz

GFSK_Channel 0



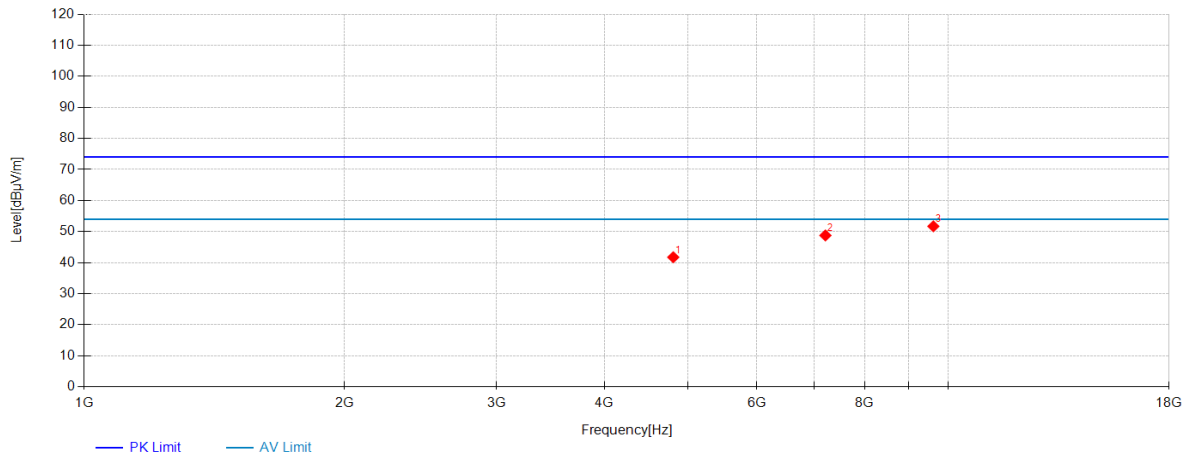
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1	4804	53.92	30.78	-42.95	41.75	74.00	32.25	Horizontal
	4804	-	-	-	16.99	54.00	37.01	-
2	7206	50.38	36.56	-38.71	48.23	74.00	25.77	Horizontal
	7206	-	-	-	23.47	54.00	30.53	-
3	9608	49.39	37.85	-35.70	51.54	74.00	22.46	Horizontal
	9608	-	-	-	26.78	54.00	27.22	-

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GFSK_Channel 0



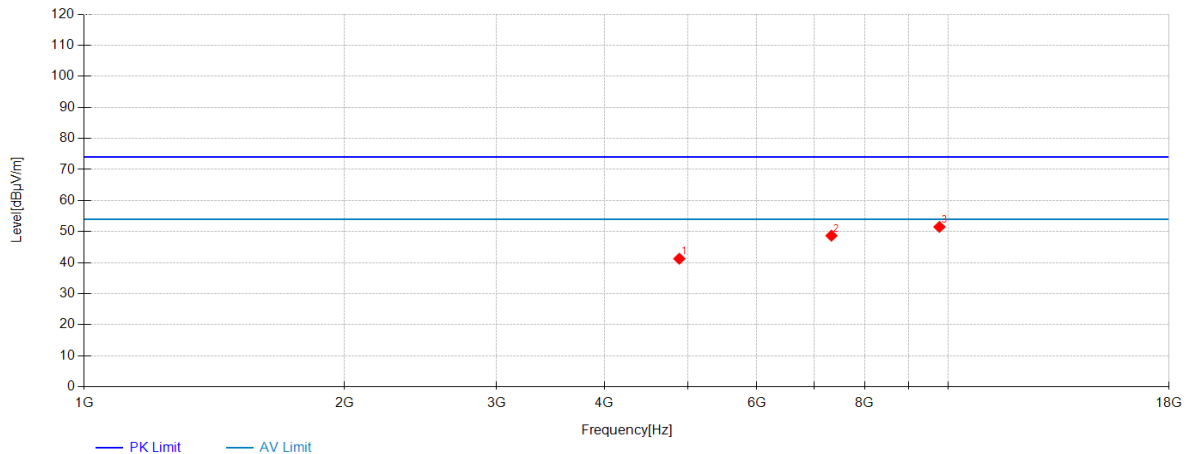
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1	4804	53.91	30.78	-42.95	41.74	74.00	32.26	Vertical
	4804	-	-	-	16.98	54.00	37.02	-
2	7206	50.91	36.56	-38.71	48.76	74.00	25.24	Vertical
	7206	-	-	-	24.00	54.00	30.00	-
3	9608	49.56	37.85	-35.70	51.71	74.00	22.29	Vertical
	9608	-	-	-	26.95	54.00	27.05	-

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GFSK_Channel 39



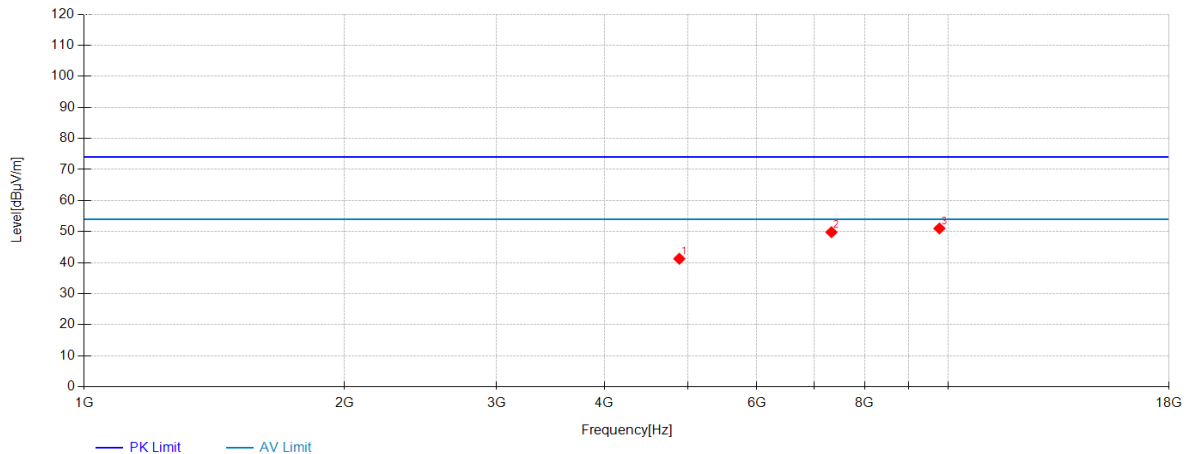
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1	4882	53.37	30.79	-42.89	41.27	74.00	32.73	Horizontal
	4882	-	-	-	16.51	54.00	37.49	-
2	7323	50.98	36.45	-38.74	48.69	74.00	25.31	Horizontal
	7323	-	-	-	23.93	54.00	30.07	-
3	9764	49.10	38.36	-35.95	51.51	74.00	22.49	Horizontal
	9764	-	-	-	26.75	54.00	27.25	-

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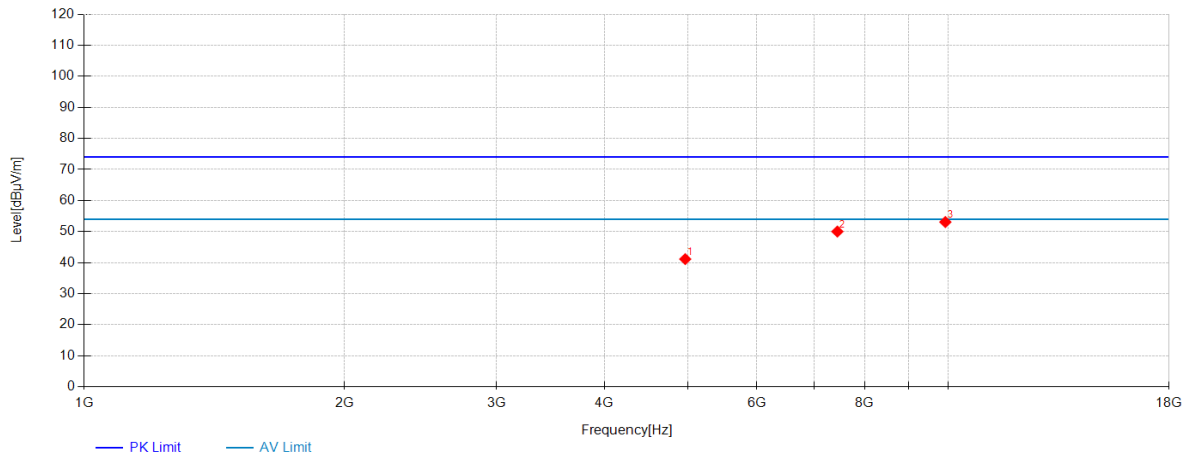
Data List								
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1	4882	53.36	30.79	-42.89	41.26	74.00	32.74	Vertical
	4882	-	-	-	16.50	54.00	37.50	-
2	7323	52.10	36.45	-38.74	49.81	74.00	24.19	Vertical
	7323	-	-	-	25.05	54.00	28.95	-
3	9764	48.60	38.36	-35.95	51.01	74.00	22.99	Vertical
	9764	-	-	-	26.25	54.00	27.75	-

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GFSK_Channel 78



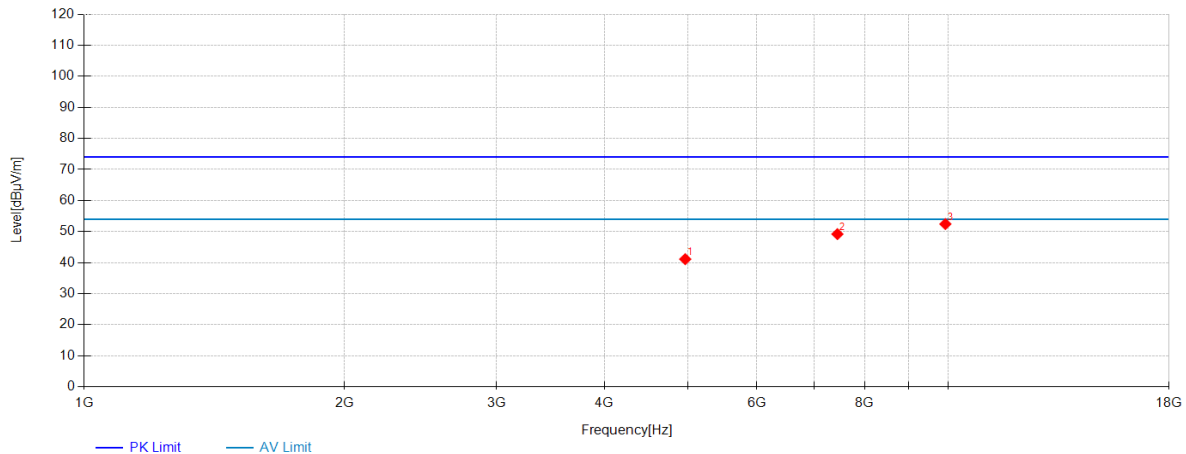
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960	52.88	31.04	-42.78	41.14	74.00	32.86	Horizontal
	4960	-	-	-	16.38	54.00	37.62	-
2	7440	51.52	36.78	-38.28	50.02	74.00	23.98	Horizontal
	7440	-	-	-	25.26	54.00	28.74	-
3	9920	49.95	38.62	-35.49	53.08	74.00	20.92	Horizontal
	9920	-	-	-	28.32	54.00	25.68	-

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GFSK_Channel 78



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960	52.87	31.04	-42.78	41.13	74.00	32.87	Vertical
	4960	-	-	-	16.37	54.00	37.63	-
2	7440	50.69	36.78	-38.28	49.19	74.00	24.81	Vertical
	7440	-	-	-	24.43	54.00	29.57	-
3	9920	49.30	38.62	-35.49	52.43	74.00	21.57	Vertical
	9920	-	-	-	27.67	54.00	26.33	-

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.



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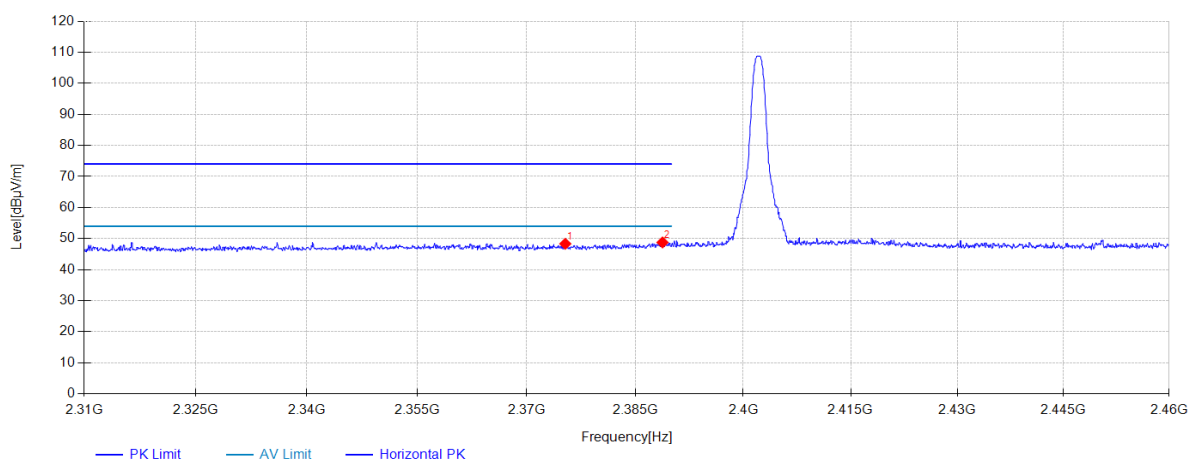
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Restricted bands around fundamental frequency

GFSK_Channel 0



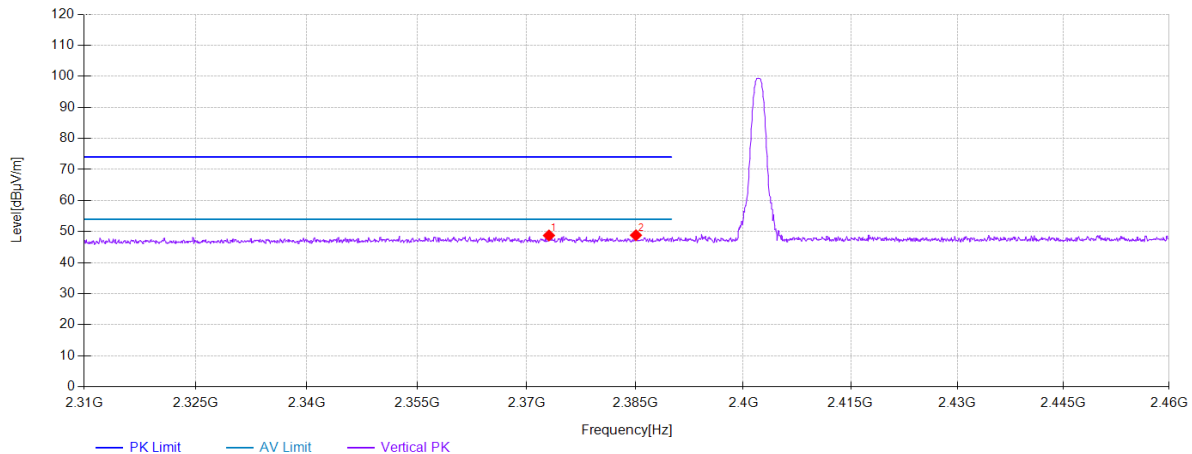
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2375.3577	39.26	27.50	-18.43	48.33	74.00	25.67	Horizontal
	2375.3577	-	-	-	23.57	54.00	30.43	-
2	2388.7894	39.50	27.44	-18.18	48.76	74.00	25.24	Horizontal
	2388.7894	-	-	-	24.00	54.00	30.00	-

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GFSK_Channel 0



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2373.1066	39.70	27.51	-18.45	48.76	74.00	25.24	Vertical
	2373.1066	-	-	-	24.00	54.00	30.00	-
2	2385.1126	39.63	27.46	-18.26	48.83	74.00	25.17	Vertical
	2385.1126	-	-	-	24.07	54.00	29.93	-

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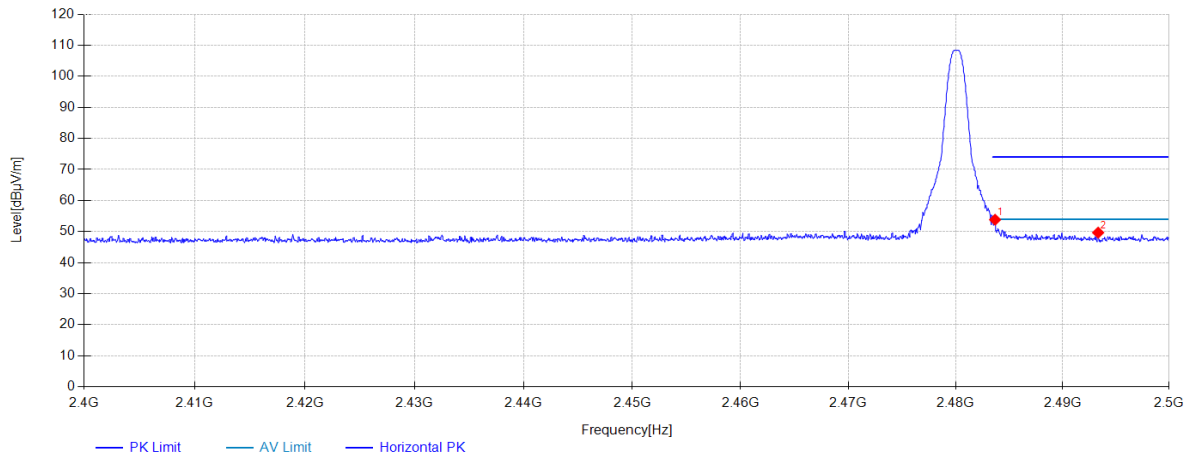
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中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086t (86-29) 6282 7885 www.sgsgroup.com.cn
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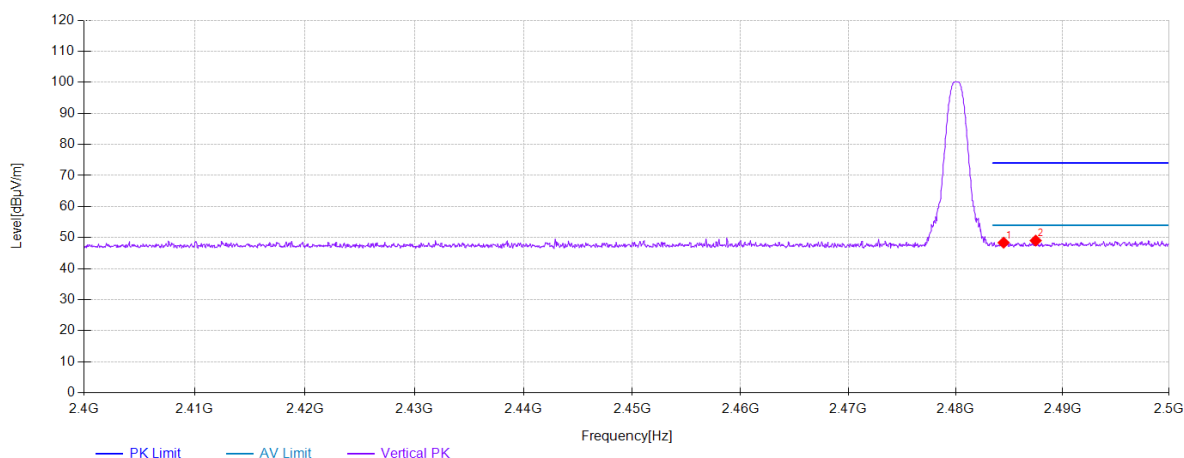
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.6918	44.29	27.73	-18.19	53.83	74.00	20.17	Horizontal
	2483.6918	-	-	-	29.07	54.00	24.93	-
2	2493.3467	40.10	27.77	-18.20	49.67	74.00	24.33	Horizontal
	2493.3467	-	-	-	24.91	54.00	29.09	-

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.4922	38.81	27.74	-18.18	48.37	74.00	25.63	Vertical
	2484.4922	-	-	-	23.61	54.00	30.39	-
2	2487.4937	39.45	27.75	-18.17	49.03	74.00	24.97	Vertical
	2487.4937	-	-	-	24.27	54.00	29.73	-

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

---End of Report---



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