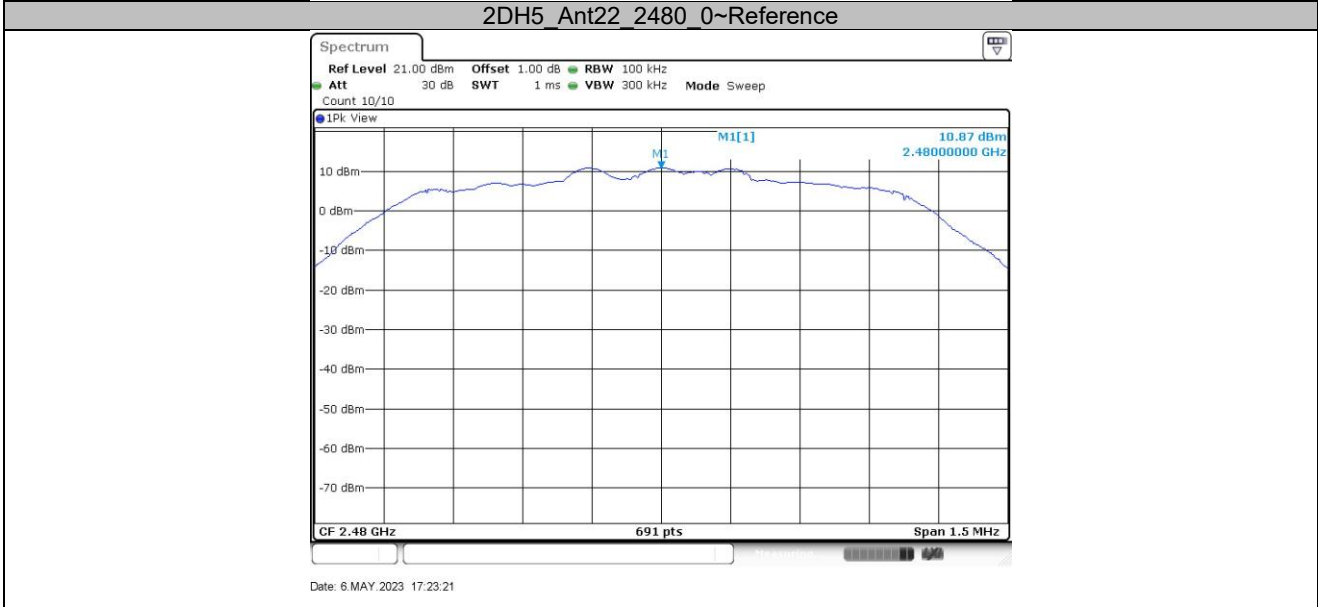
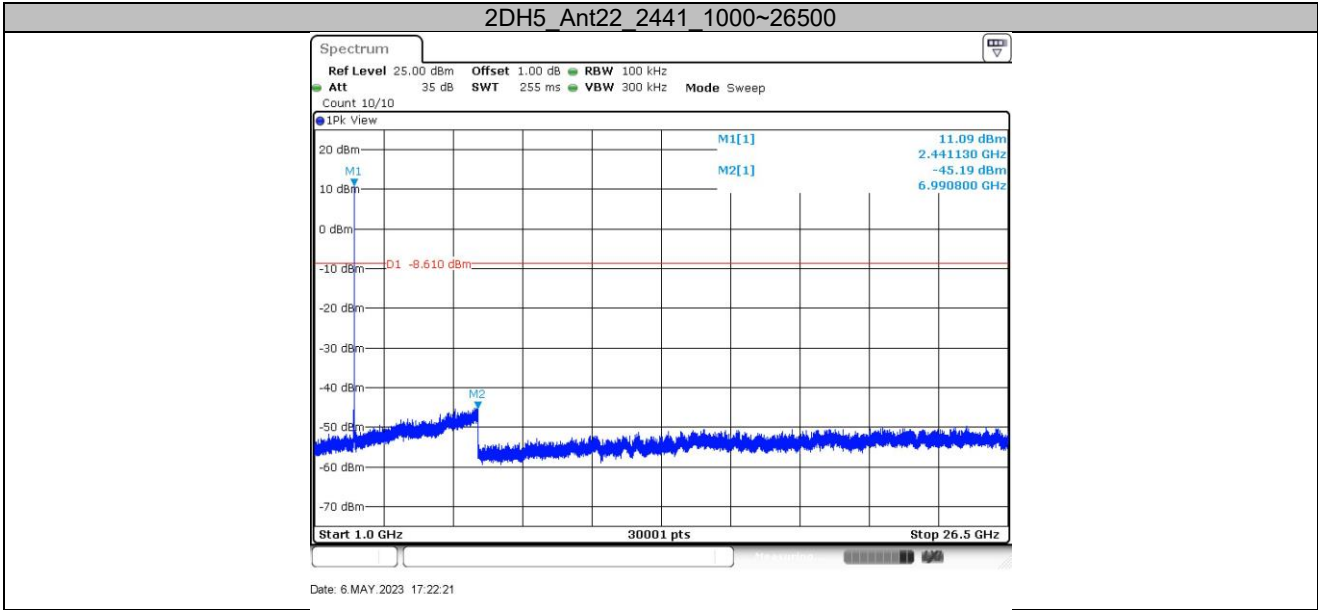




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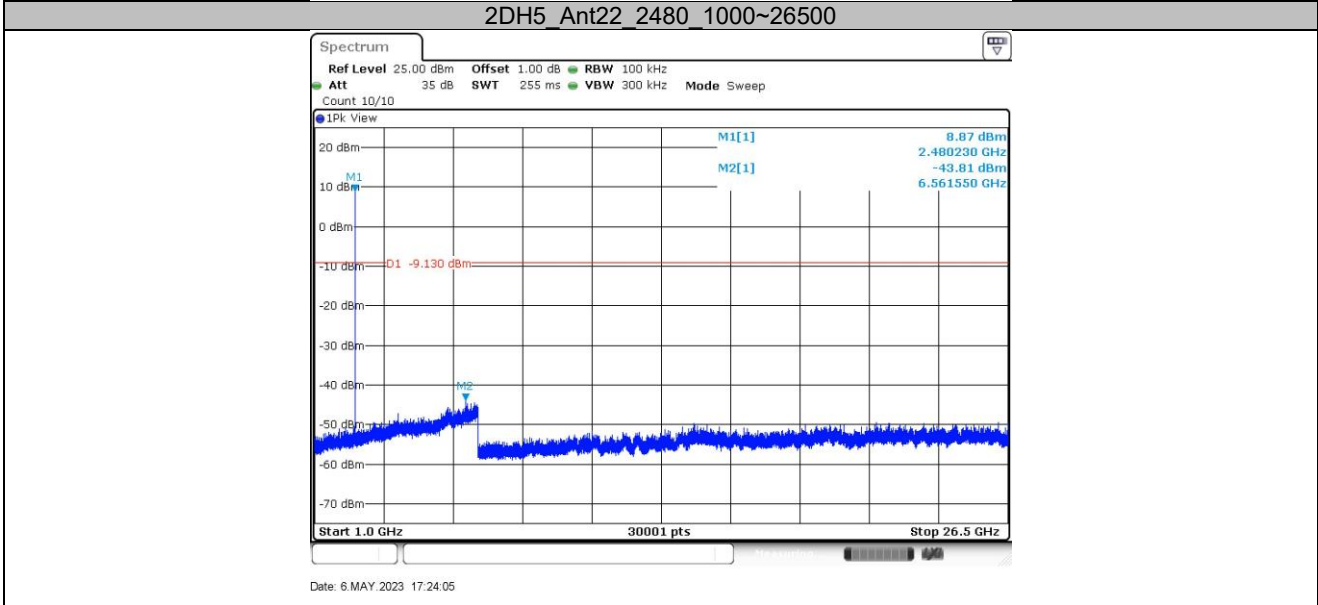
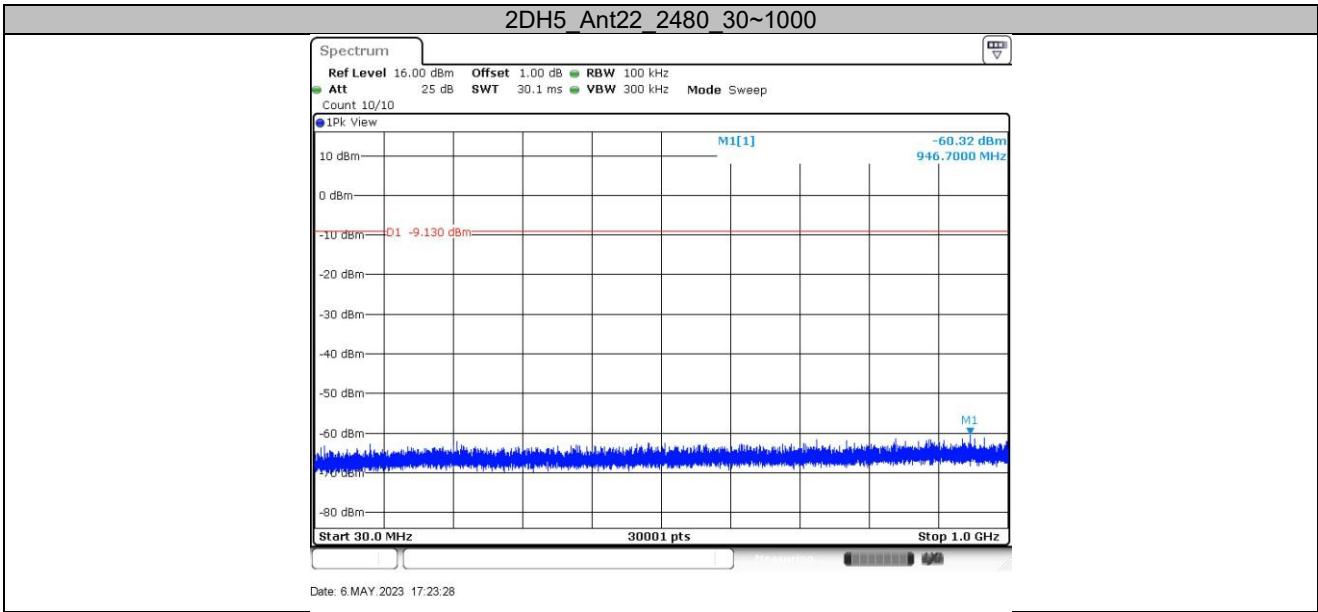
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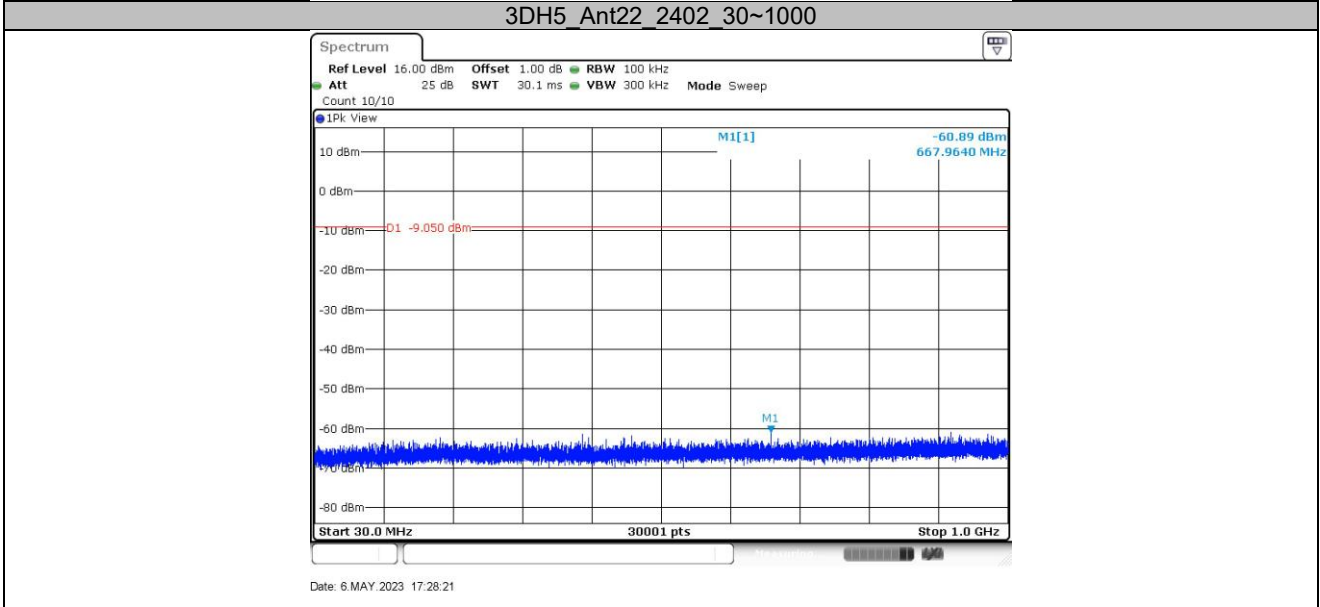
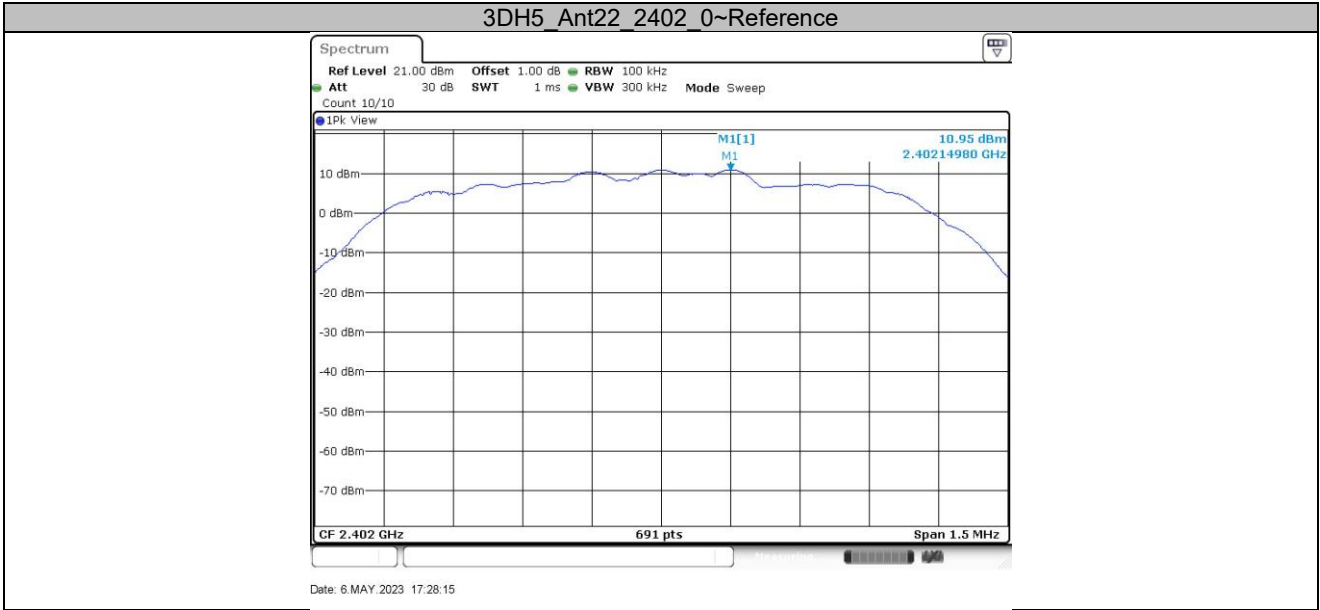
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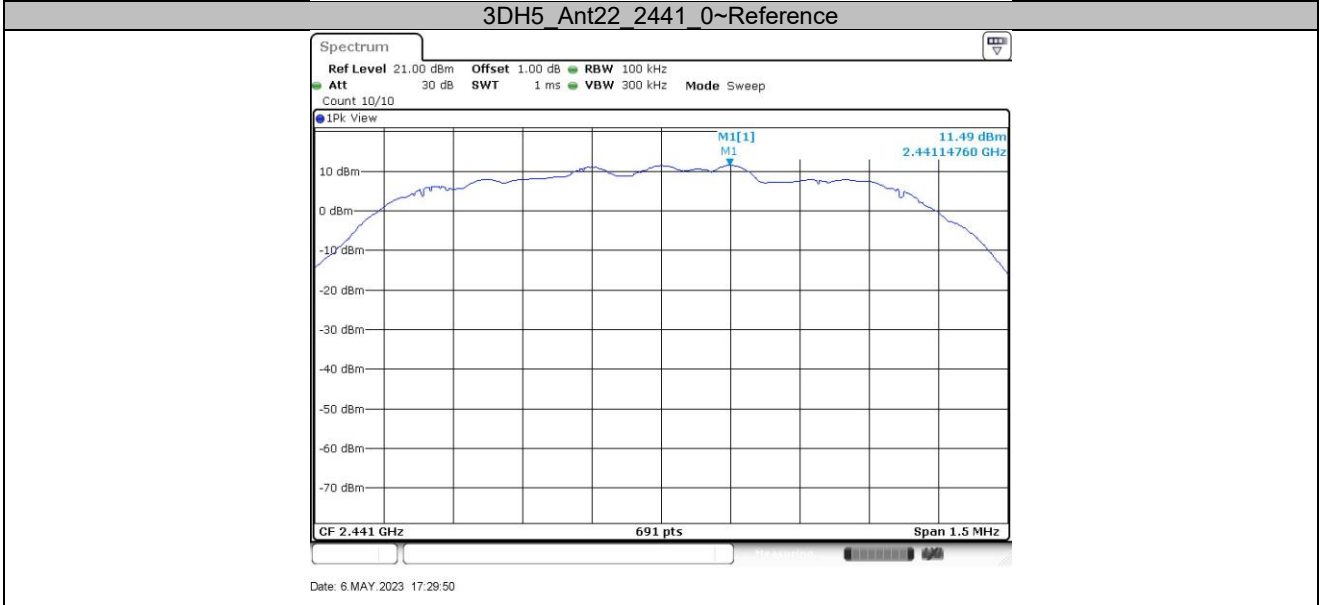
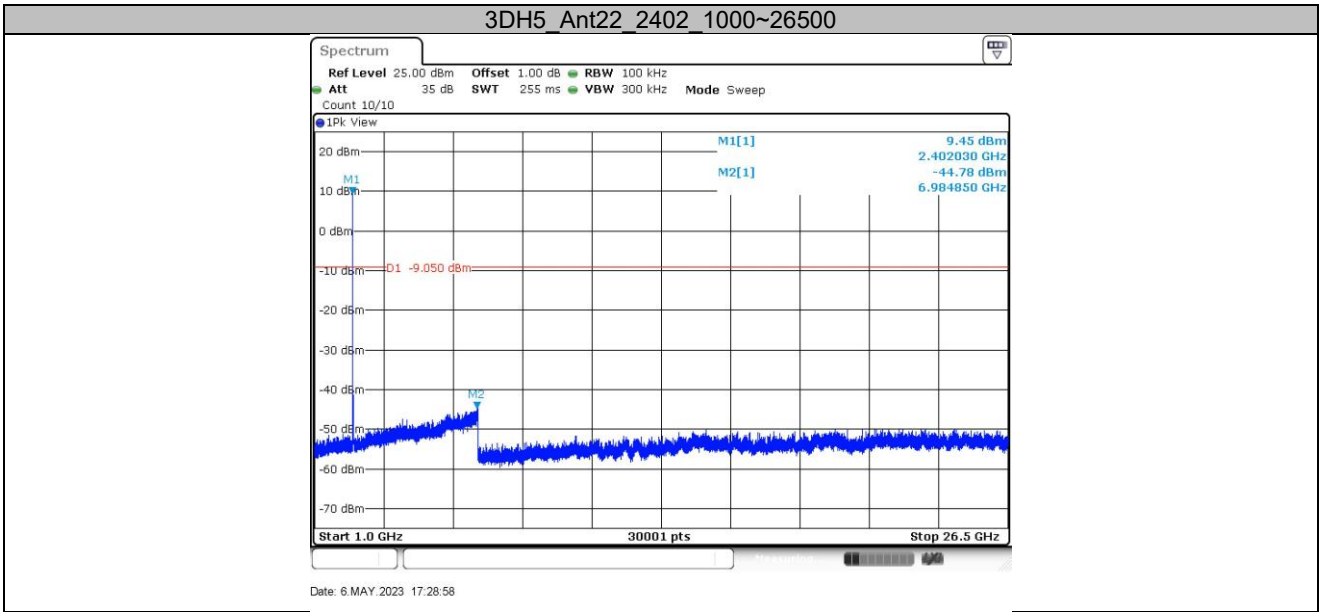


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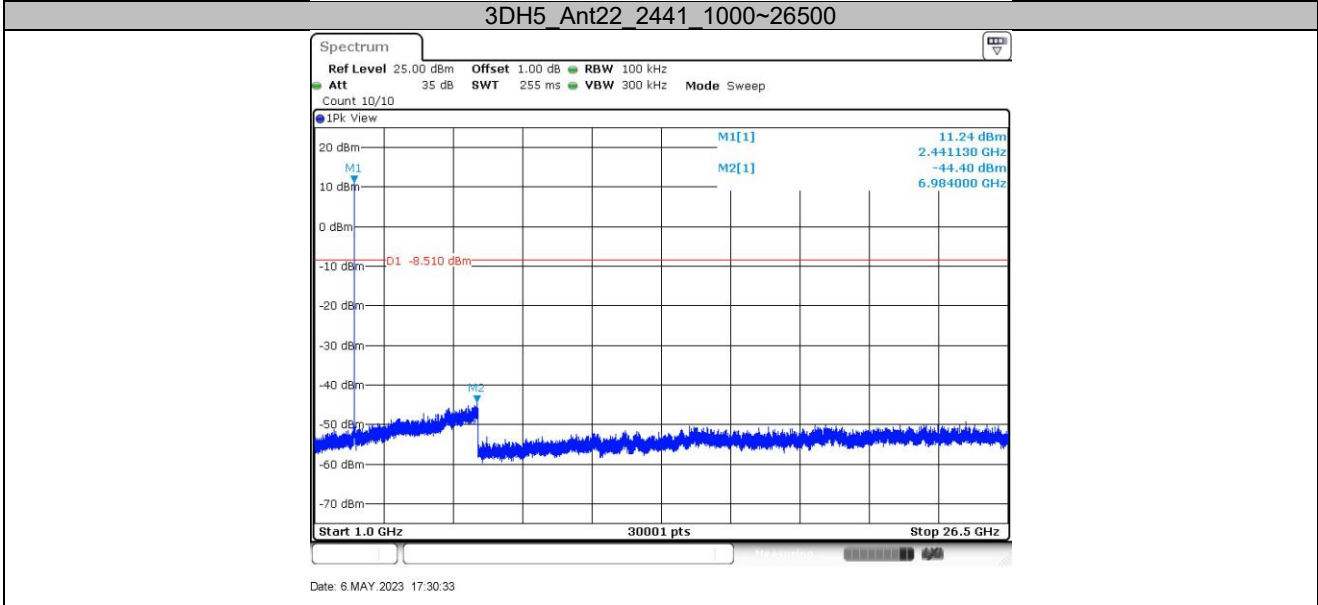
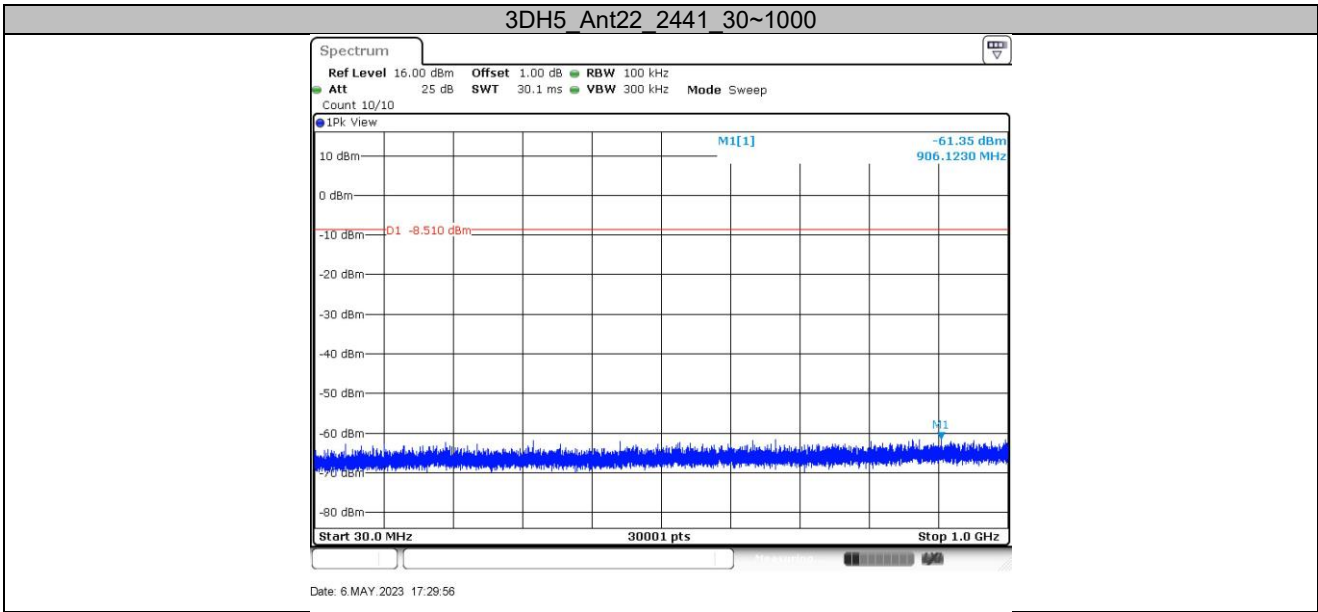
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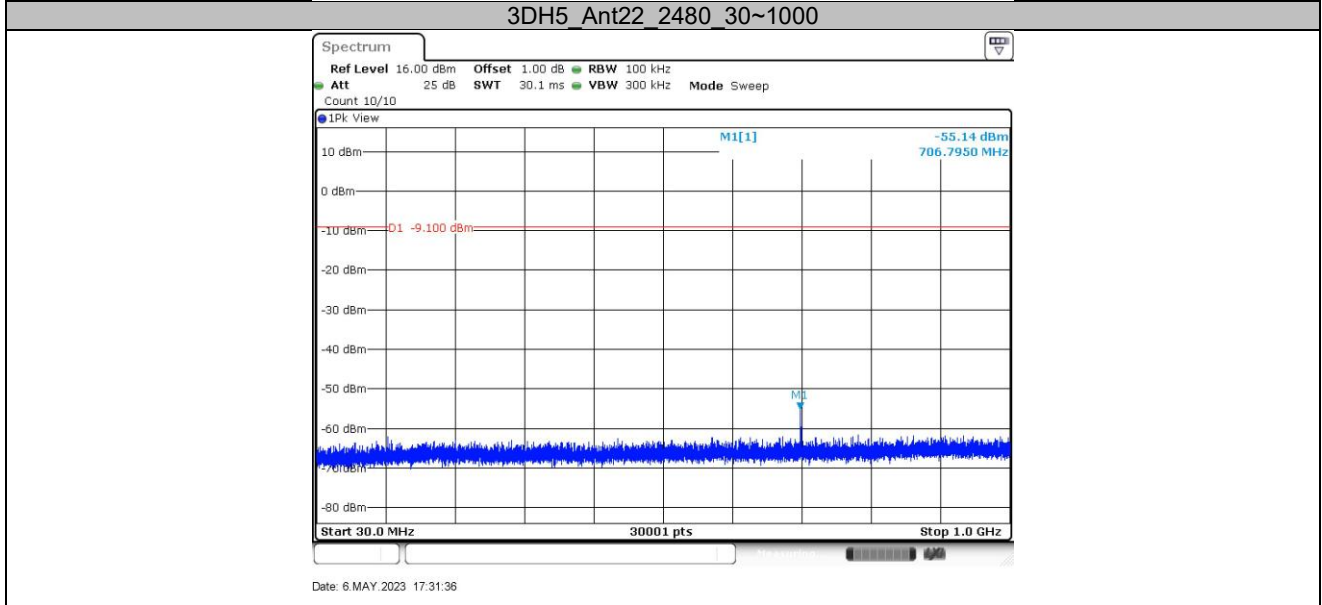
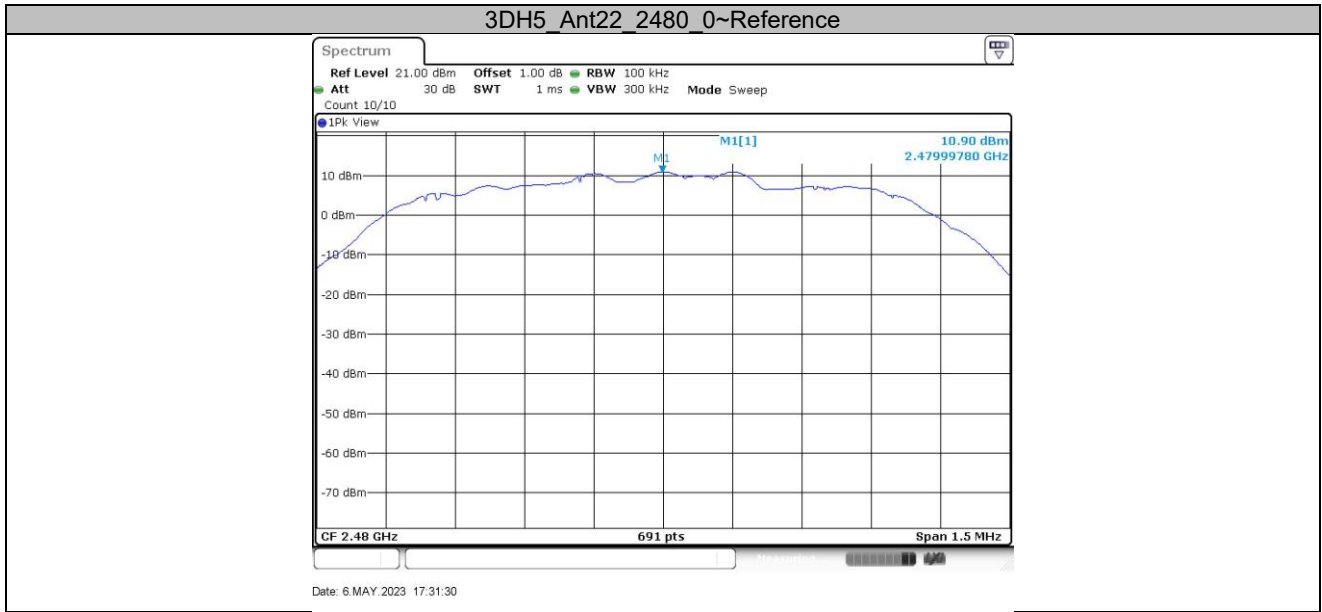
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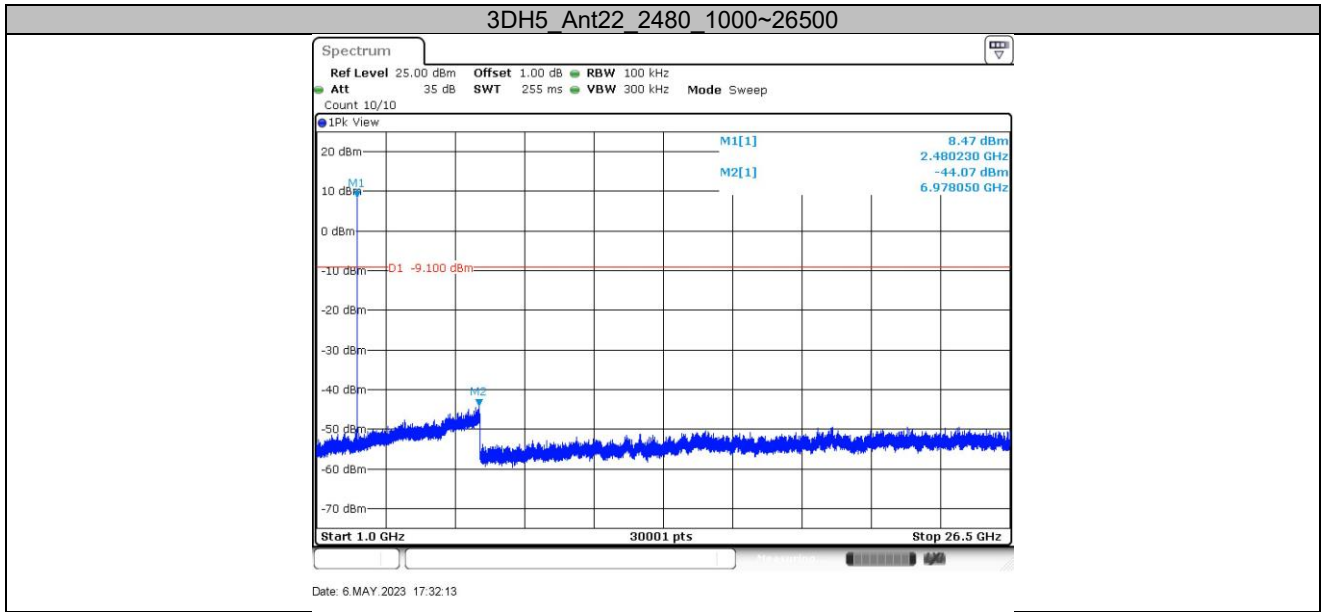
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant22	2402	2.89	3.76	76.86	1.14
2DH5	Ant22	2402	2.89	3.75	77.07	1.13
3DH5	Ant22	2402	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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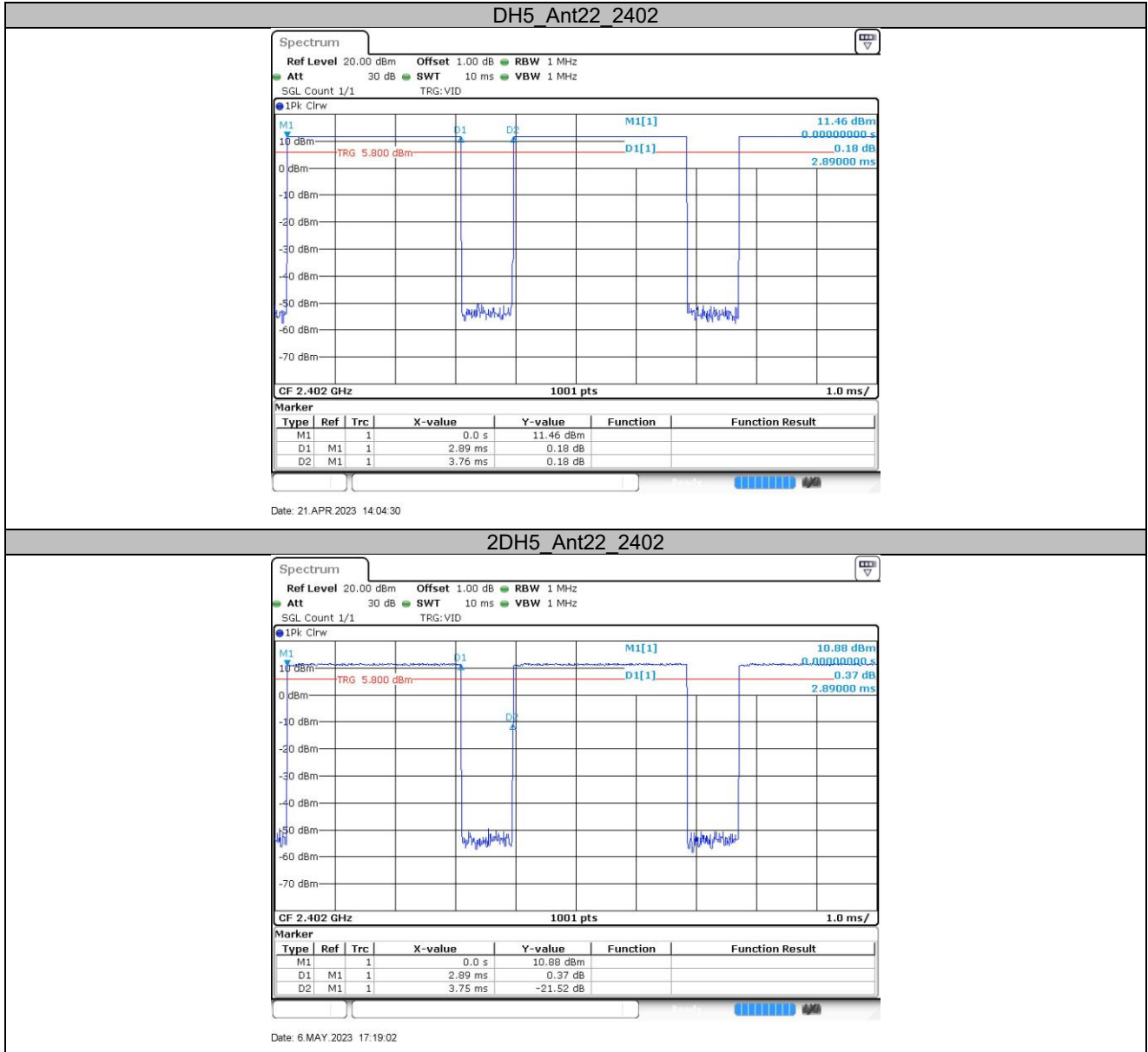
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Test Graphs



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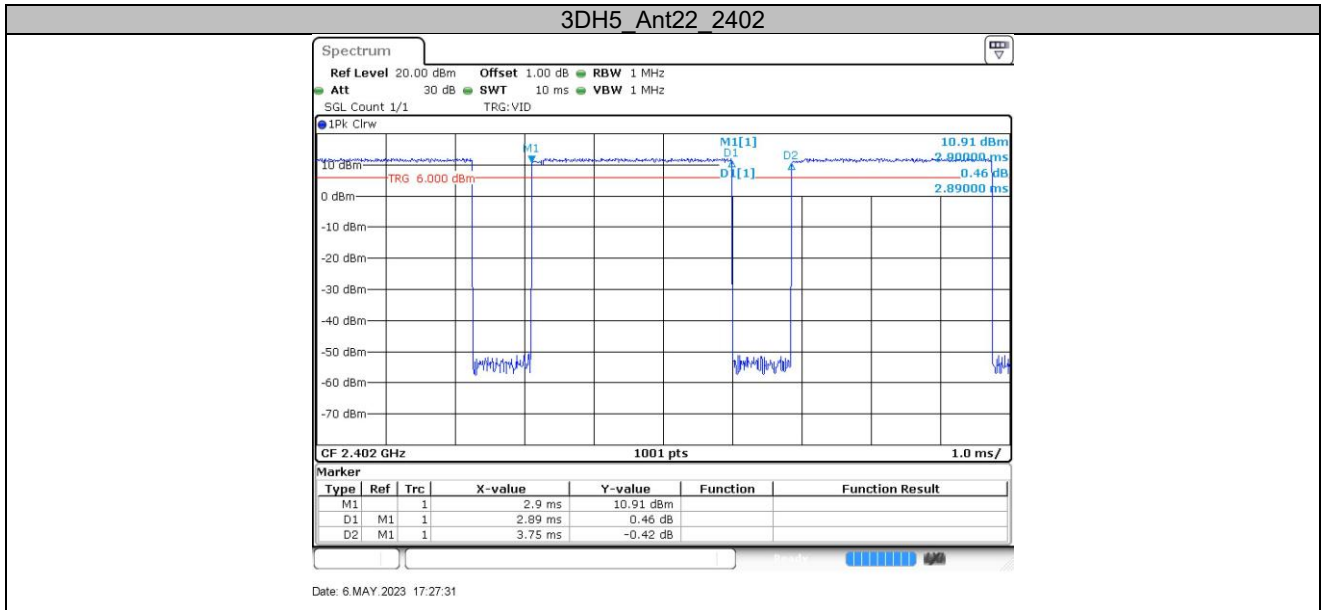
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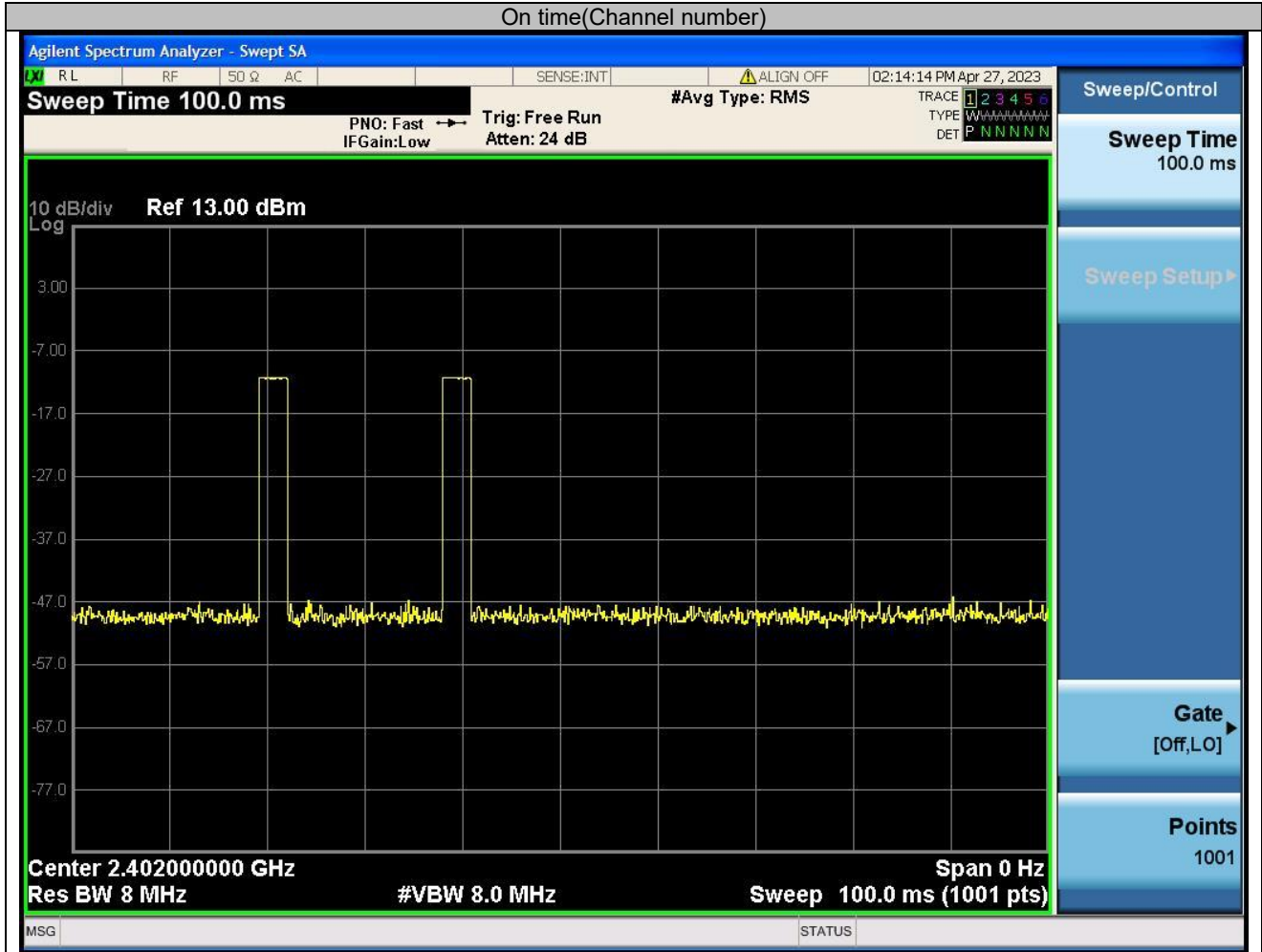
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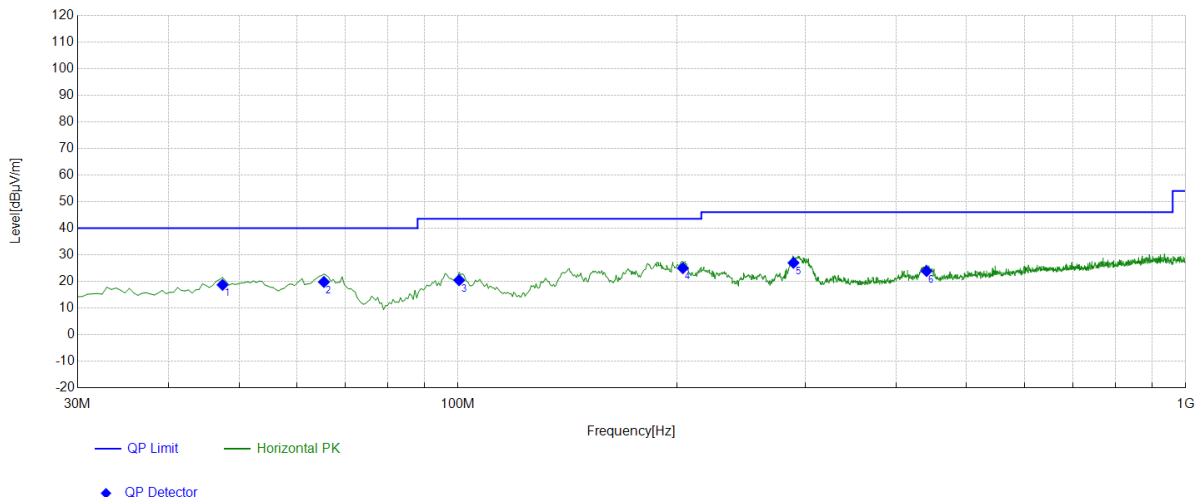
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Radiated Spurious Emissions
Radiated emission below 1GHz
Worst case Mode: GFSK_Channel 39

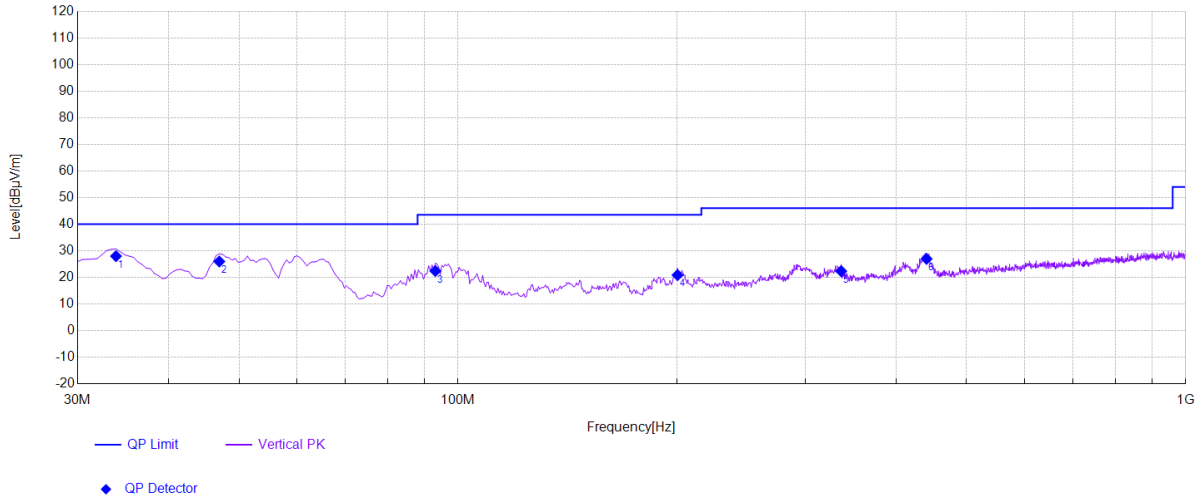


Final Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.4687	14.07	-27.77	32.41	18.71	40.00	21.29	169	115	Horizontal
2	65.4227	12.02	-27.63	35.41	19.80	40.00	20.20	248	166	Horizontal
3	100.3602	11.70	-27.12	35.87	20.45	43.50	23.05	134	282	Horizontal
4	203.7169	11.25	-26.53	40.26	24.98	43.50	18.52	256	277	Horizontal
5	289.1196	13.10	-25.68	39.56	26.98	46.00	19.02	327	229	Horizontal
6	440.5153	16.19	-25.23	32.91	23.87	46.00	22.13	328	130	Horizontal



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Final Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.8819	11.30	-28.00	44.69	27.99	40.00	12.01	133	358	Vertical
2	46.9835	14.30	-27.78	39.45	25.97	40.00	14.03	154	201	Vertical
3	93.0815	10.72	-27.46	39.15	22.41	43.50	21.09	252	95	Vertical
4	200.3202	11.39	-26.33	35.82	20.88	43.50	22.62	237	5	Vertical
5	336.1881	14.27	-25.81	33.89	22.35	46.00	23.65	391	293	Vertical
6	440.5153	16.19	-25.23	36	26.96	46.00	19.04	393	240	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:
 Value = Reading(dBµV) + AF(dB/m) + Factor(dB):
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBµV/m) – Value(dBµV/m)
- All channels have been tested, but only the worst case data displayed in this report.

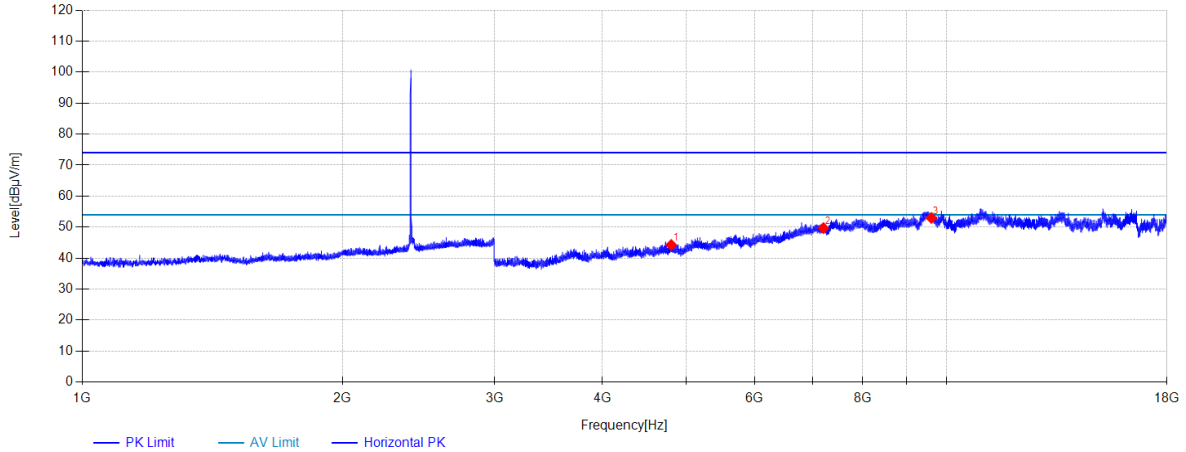


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Transmitter emission Above 1GHz
GFSK_Channel 0



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	56.40	30.78	-42.95	44.23	74.00	29.77	156	309	Horizontal
2	4804	-	-	-	19.47	54.00	34.53	-	-	-
3	7206	51.85	36.56	-38.71	49.70	74.00	24.30	138	309	Horizontal
4	7206	-	-	-	24.94	54.00	29.06	-	-	-
5	9608	50.81	37.85	-35.70	52.96	74.00	21.04	109	277	Horizontal
6	9608	-	-	-	28.20	54.00	25.80	-	-	-

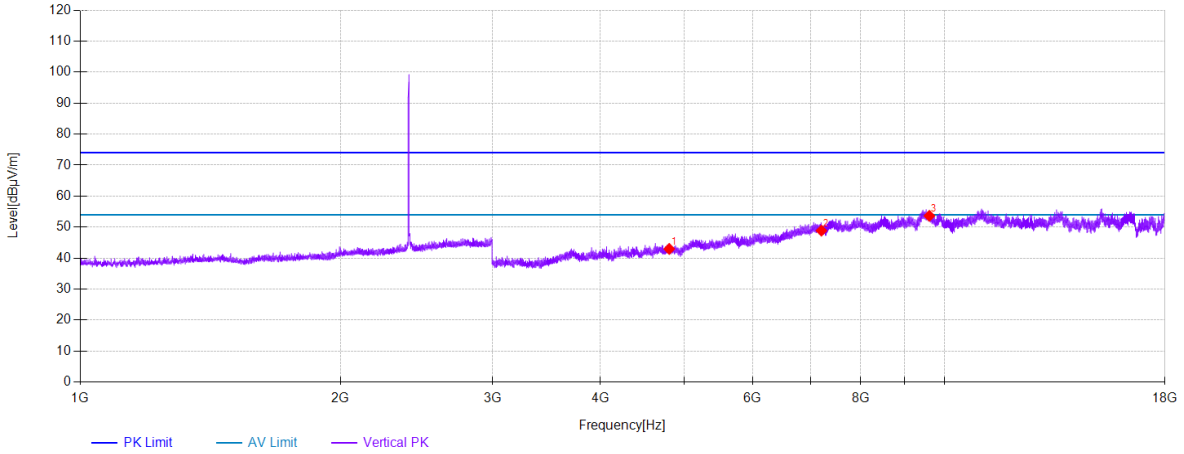


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GFSK_Channel 0



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	55.13	30.78	-42.95	42.96	74.00	31.04	388	269	Vertical
2	4804	-	-	-	18.2	54.00	35.84	-	-	-
3	7206	51.02	36.56	-38.71	48.87	74.00	25.13	370	332	Vertical
4	7206	-	-	-	24.11	54.00	29.89	-	-	-
5	9608	51.50	37.85	-35.70	53.65	74.00	20.35	395	54	Vertical
6	9608	-	-	-	28.89	54.00	25.11	-	-	-

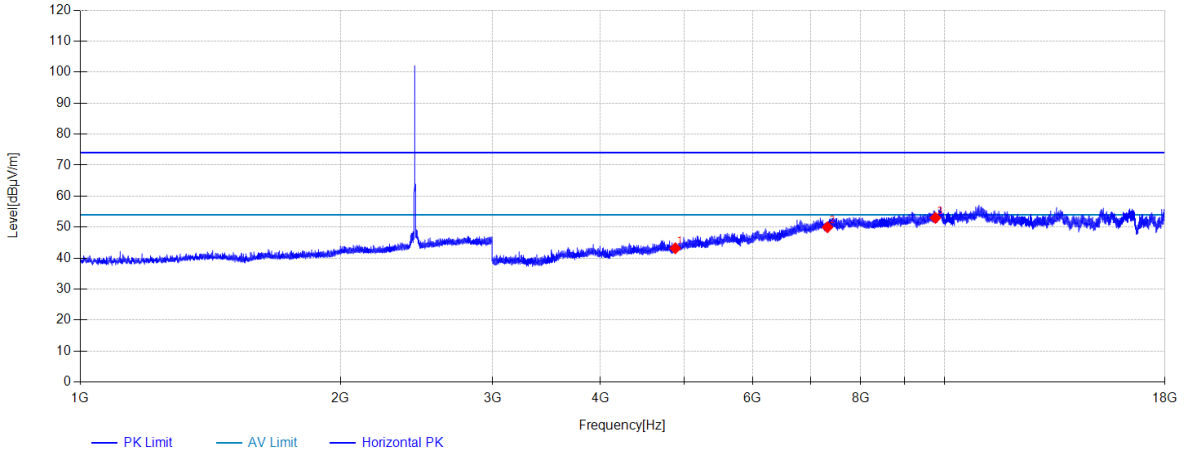


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GFSK_Channel 39

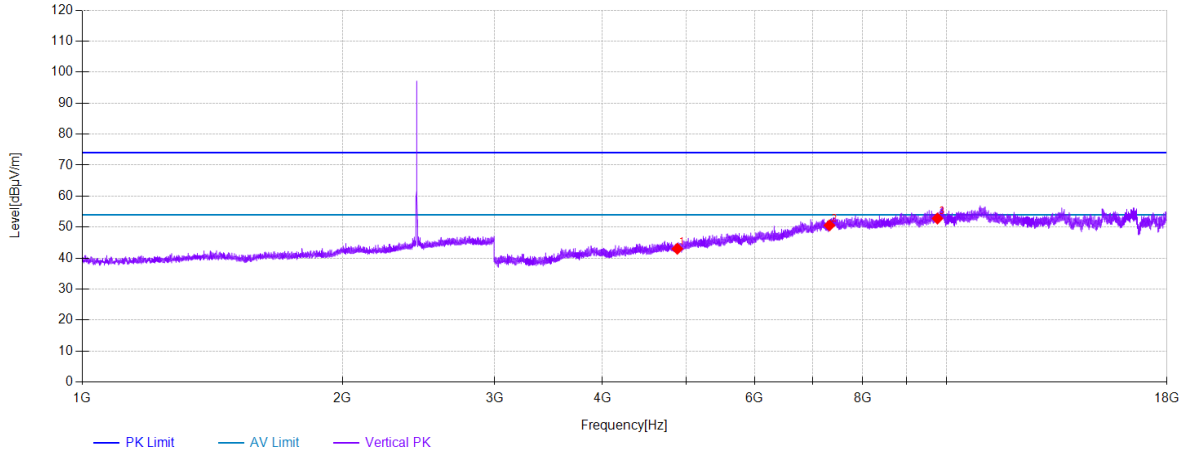


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882	55.29	30.79	-42.89	43.19	74.00	30.81	153	242	Horizontal
2	4882	-	-	-	18.43	54.00	35.57	-	-	-
3	7323	52.26	36.45	-38.74	49.97	74.00	24.03	168	306	Horizontal
4	7323	-	-	-	25.21	54.00	28.79	-	-	-
5	9764	50.57	38.36	-35.94	52.99	74.00	21.01	205	316	Horizontal
6	9764	-	-	-	28.23	54.00	25.77	-	-	--



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GFSK_Channel 39


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4882	55.11	30.79	-42.89	43.01	74.00	30.99	335	165	Vertical
2	4882	--	-	-	18.25	54.00	35.75	-	-	-
3	7323	52.85	36.45	-38.74	50.56	74.00	23.44	365	230	Vertical
4	7323	-	-	-	25.80	54.00	28.20	-	-	-
5	9764	50.37	38.36	-35.94	52.79	74.00	21.21	322	143	Vertical
6	9764	-	-	-	28.03	54.00	25.97	-	-	-


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 Shenzhen Branch Wireless Laboratory

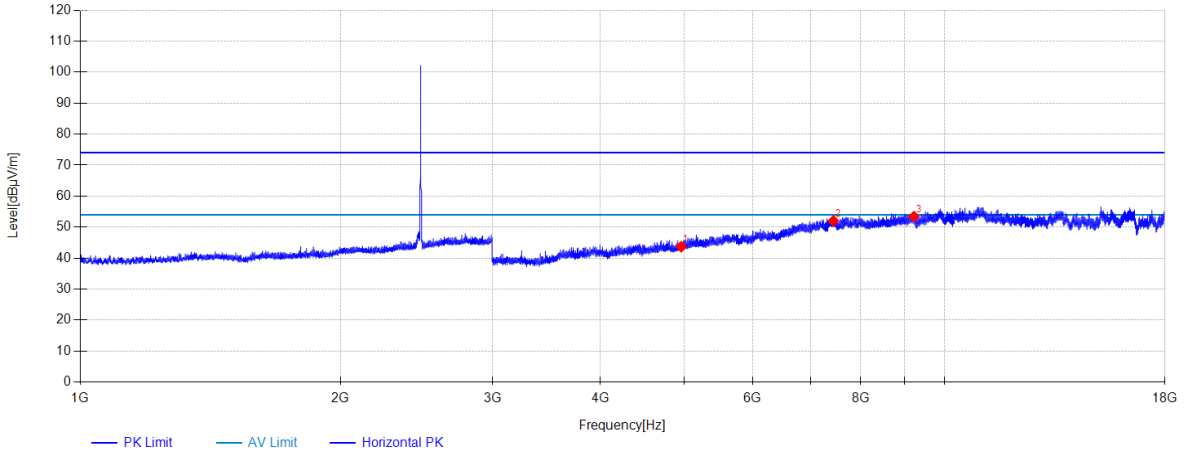
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GFSK_Channel 78



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	55.43	31.04	-42.78	43.69	74.00	30.31	165	226	Horizontal
2	4960	-	-	-	18.93	54.00	35.07	-	-	-
3	7440	53.51	36.78	-38.28	52.01	74.00	21.99	175	214	Horizontal
4	7440	-	-	-	27.25	54.00	26.75	-	-	-
5	9220	51.94	37.50	-36.04	53.40	74.00	20.60	142	160	Horizontal
6	9220	-	-	-	28.64	54.00	25.36	-	-	-

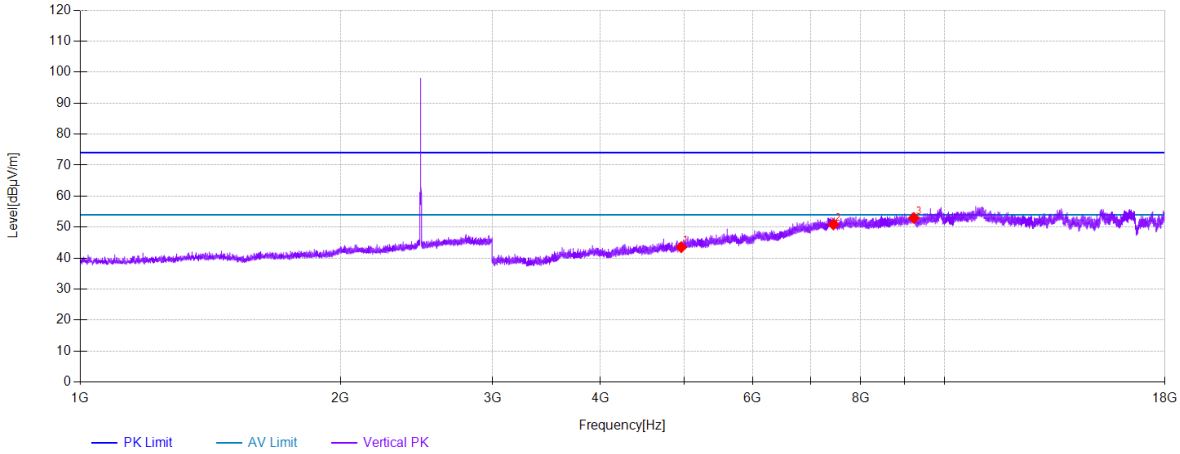


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GFSK_Channel 78



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	55.27	31.04	-42.78	43.53	74.00	30.47	381	177	Vertical
2	4960	-	-	-	18.77	54.00	35.23	-	-	-
3	7440	52.37	36.78	-38.28	50.87	74.00	23.13	377	317	Vertical
4	7440	-	-	-	26.11	54.00	27.89	-	-	-
5	9220	51.49	37.50	-36.04	52.95	74.00	21.05	365	295	Vertical
6	9220	-	-	-	28.19	54.00	25.81	-	-	-

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



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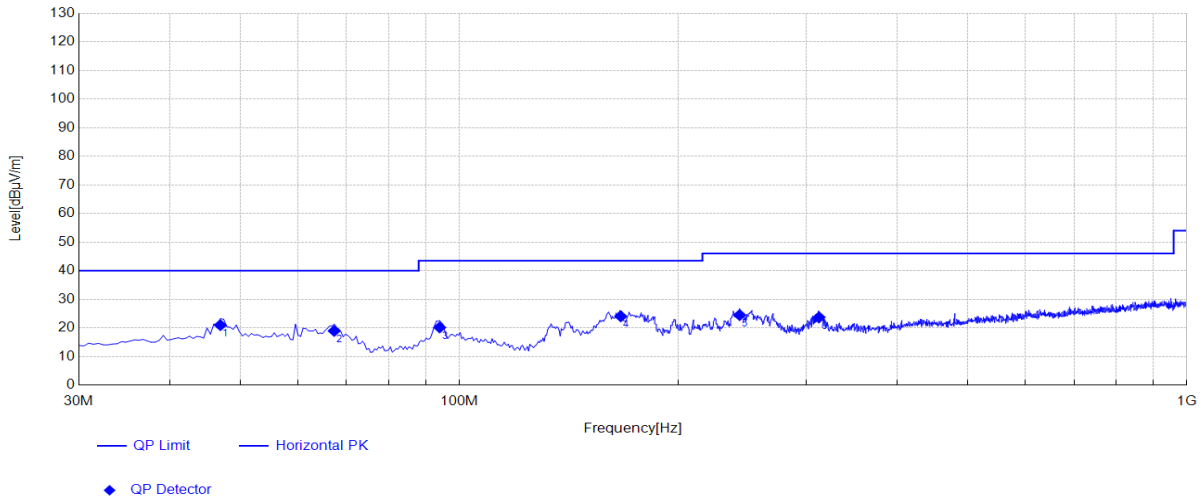
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Test on the worst case:

Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78



Final 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	46.9835	14.30	-27.78	34.45	20.97	40.00	19.03	Horizontal
2	67.3637	10.63	-27.51	35.82	18.94	40.00	21.06	Horizontal
3	94.052	10.91	-27.41	36.66	20.16	43.50	23.34	Horizontal
4	166.8384	9.07	-26.48	41.45	24.04	43.50	19.46	Horizontal
5	243.0215	12.50	-26.27	38.26	24.49	46.00	21.51	Horizontal
6	312.4112	13.30	-26.06	36.47	23.71	46.00	22.29	Horizontal



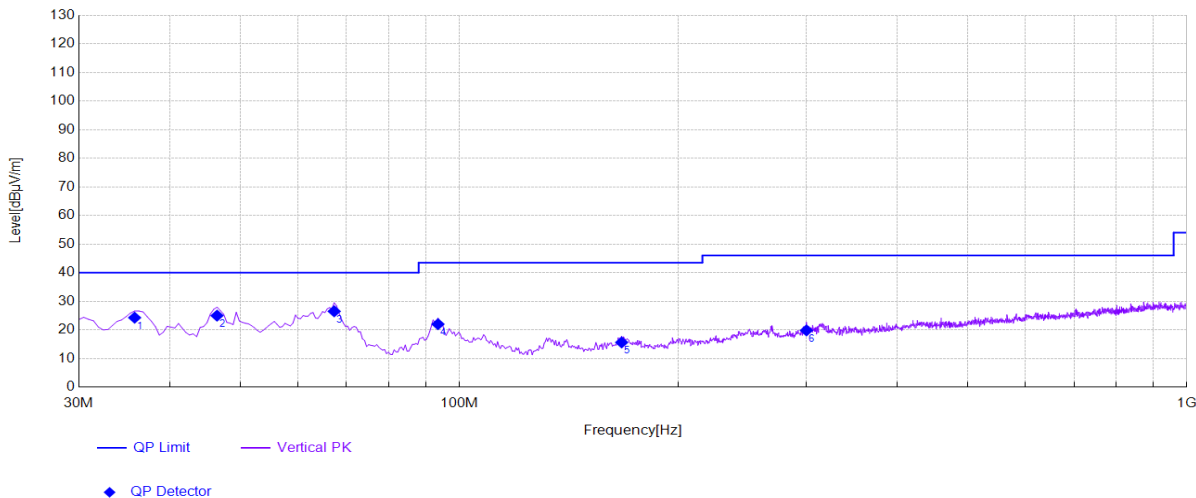
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Final Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	35.8229	11.73	-27.99	40.53	24.27	40.00	15.73	Vertical
2	46.4982	14.20	-27.79	38.58	24.99	40.00	15.01	Vertical
3	67.3637	10.63	-27.51	43.38	26.50	40.00	13.50	Vertical
4	93.5668	10.81	-27.44	38.63	22.00	43.50	21.50	Vertical
5	167.3237	9.00	-26.49	33.12	15.63	43.50	27.87	Vertical
6	300.2801	13.22	-25.90	32.52	19.84	46.00	26.16	Vertical

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:

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

AF = Antenna Factor(dB/m)

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

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

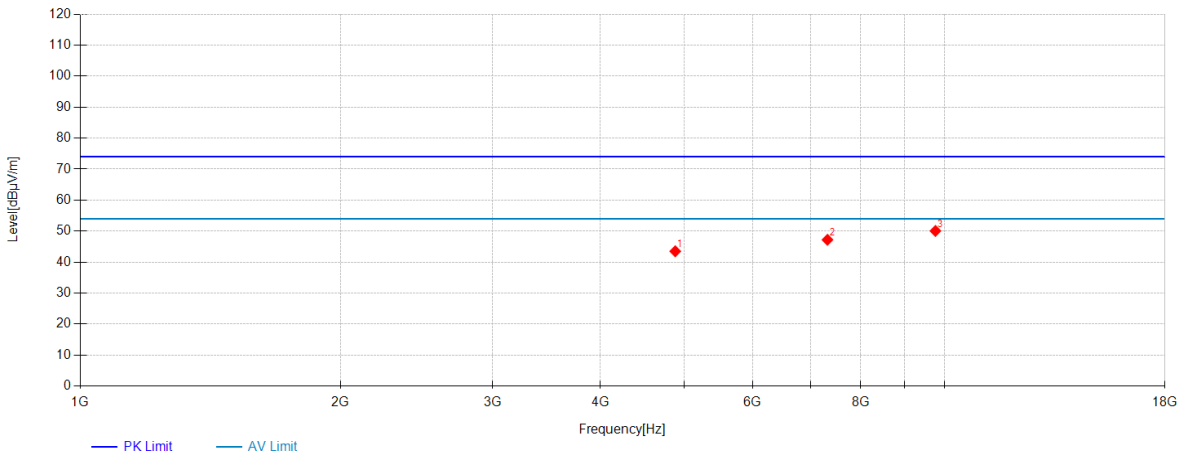


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Transmitter emission Above 1GHz
GFSK_Channel 39



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4882	55.60	30.79	-42.89	43.50	74.00	30.50	Horizontal
	4882	-	-	-	18.74	54.00	35.26	-
2	7323	49.49	36.45	-38.74	47.20	74.00	26.80	Horizontal
	7323	-	-	-	22.44	54.00	31.56	-
3	9764	47.65	38.36	-35.95	50.06	74.00	23.94	Horizontal
	9764	-	-	-	25.30	54.00	28.70	-

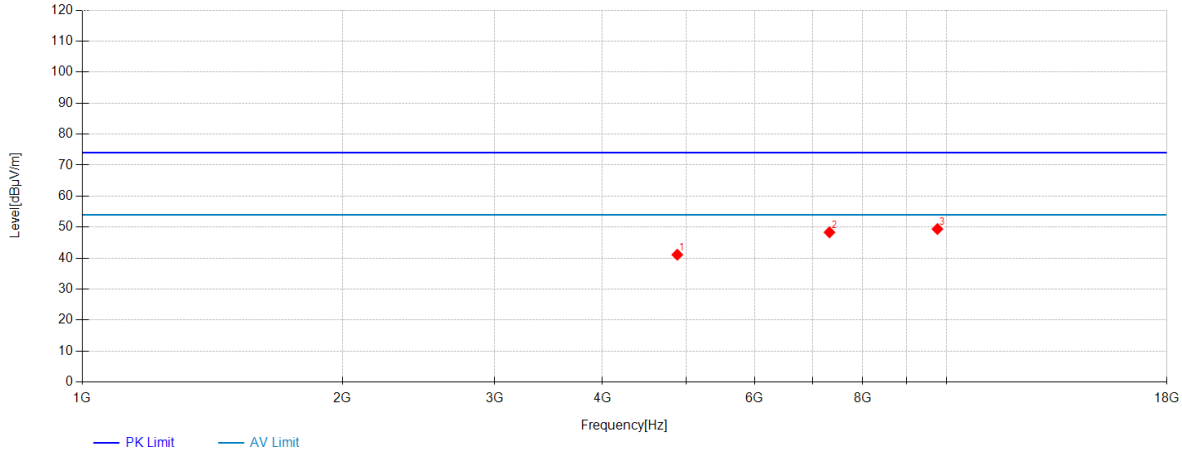


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GFSK_Channel 39



Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4882	53.21	30.79	-42.89	41.11	74.00	32.89	Vertical
	4882	-	-	-	16.35	54.00	37.65	-
2	7323	50.61	36.45	-38.74	48.32	74.00	25.68	Vertical
	7323	-	-	-	23.56	54.00	30.44	-
3	9764	46.98	38.36	-35.95	49.39	74.00	24.61	Vertical
	9764	-	-	-	24.63	54.00	29.37	-

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)

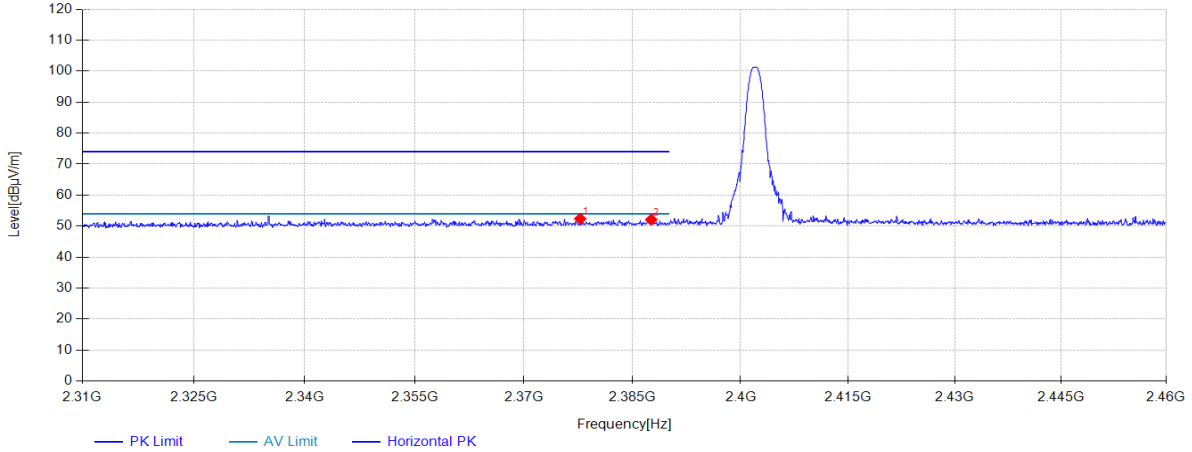


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Restricted bands around fundamental frequency
GFSK_Channel 0



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.7589	47.93	27.49	-23.04	52.38	74.00	21.62	120	215	Horizontal
2	2377.7589	-	-	-	27.62	54.00	26.38	-	-	-
3	2387.5888	47.68	27.45	-23.02	52.11	74.00	21.89	120	215	Horizontal
4	2387.5888	-	-	-	27.35	54.00	26.65	-	-	-

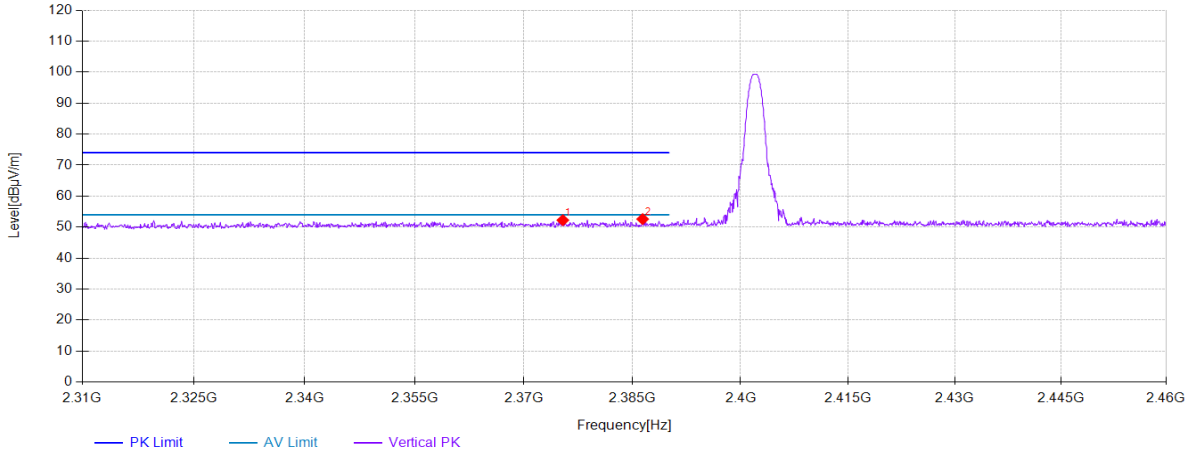


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GFSK_Channel 0



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.3577	47.79	27.50	-23.04	52.25	74.00	21.75	377	169	Vertical
2	2375.3577	-	-	-	27.49	54.00	26.51	-	-	-
3	2386.3882	48.17	27.45	-23.02	52.60	74.00	21.40	377	169	Vertical
4	2386.3882	-	-	-	27.84	54.00	26.16	-	-	-



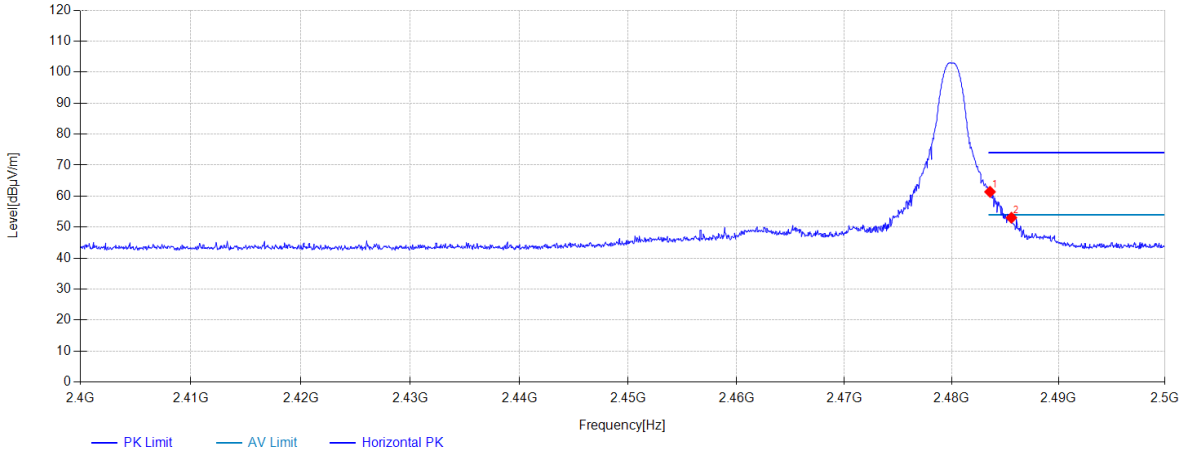
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GFSK_Channel 78



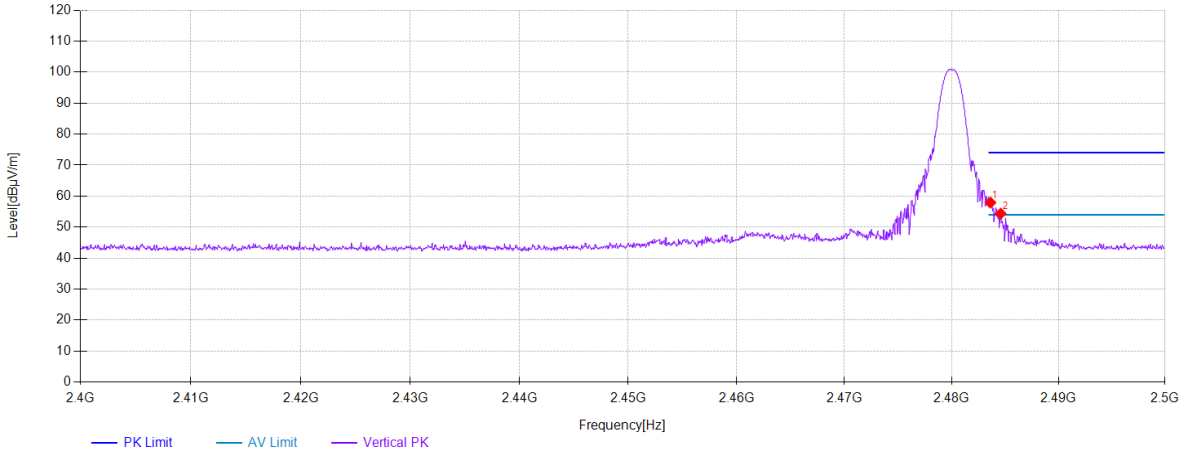
Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5918	56.77	27.73	-23.12	61.38	74.00	12.62	140	47	Horizontal
2	2483.5918	-	-	-	36.62	54.00	17.38	-	-	-
3	2485.5928	48.42	27.74	-23.12	53.04	74.00	20.96	140	47	Horizontal
4	2485.5928	-	-	-	28.28	54.00	25.72	-	-	-



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6418	53.30	27.73	-23.12	57.91	74.00	16.09	385	165	Vertical
2	2483.6418	-	-	-	33.15	54.00	20.85	-	-	-
3	2484.5923	49.75	27.74	-23.12	54.37	74.00	19.63	385	165	Vertical
4	2484.5923	-	-	-	29.61	54.00	24.39	-	-	-

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:
 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)

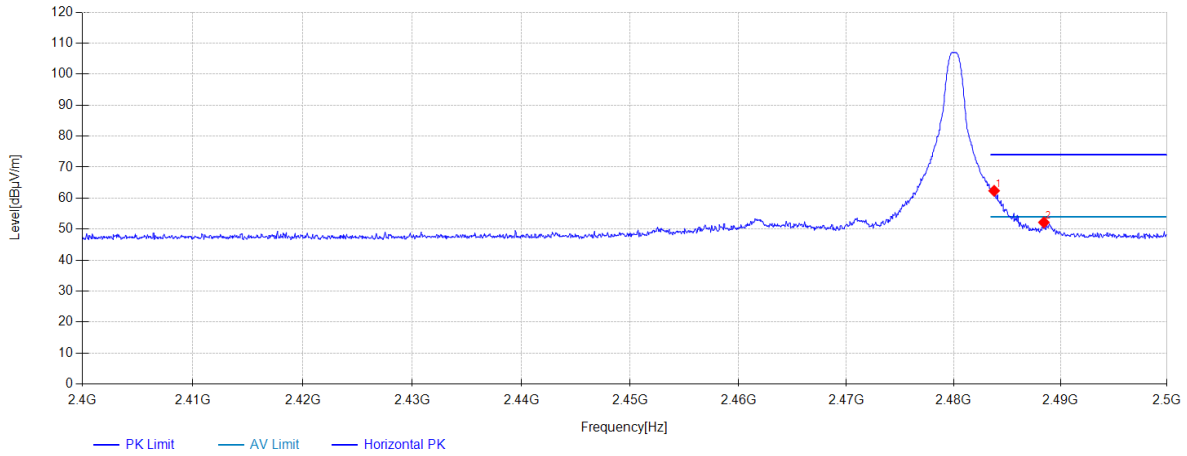


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Test on the worst case:
GFSK_Channel 78



Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.7919	52.81	27.74	-18.18	62.37	74.00	11.63	Horizontal
	2483.7919	-	-	-	37.61	54.00	16.39	-
2	2488.4442	42.60	27.75	-18.17	52.18	74.00	21.82	Horizontal
	2488.4442	-	-	-	27.42	54.00	26.58	-

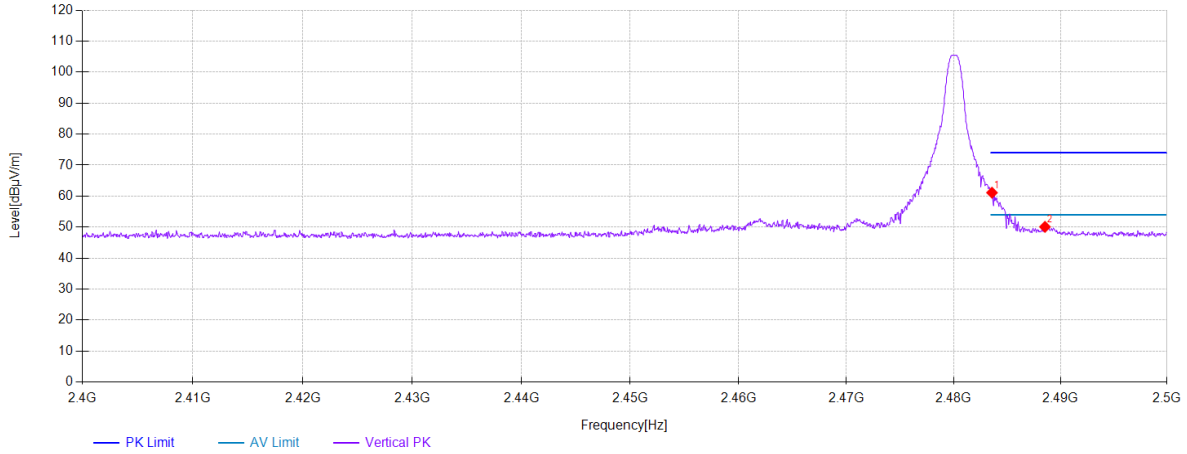


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Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.5918	51.57	27.73	-18.19	61.11	74.00	12.89	Vertical
	2483.5918	-	-	-	36.35	54.00	17.65	-
2	2488.5443	40.50	27.75	-18.17	50.08	74.00	23.92	Vertical
	2488.5443	-	-	-	25.32	54.00	28.68	-

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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