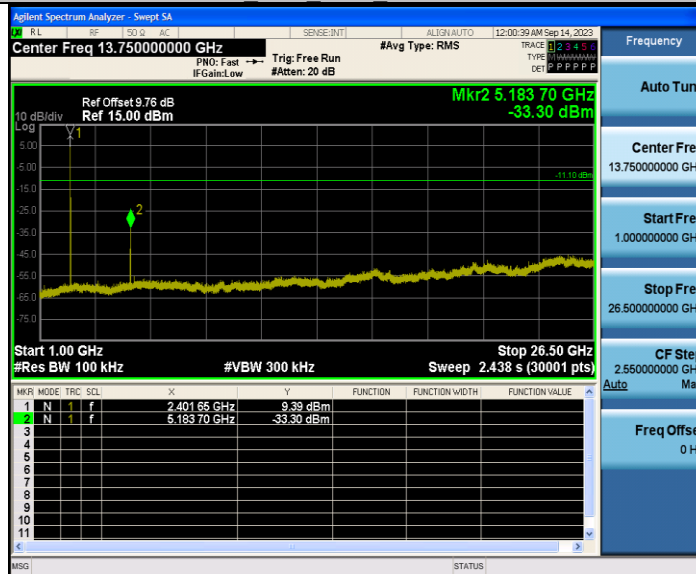


DH5 Ant9 2402 1000~26500



DH5 Ant9 2441 0~Reference

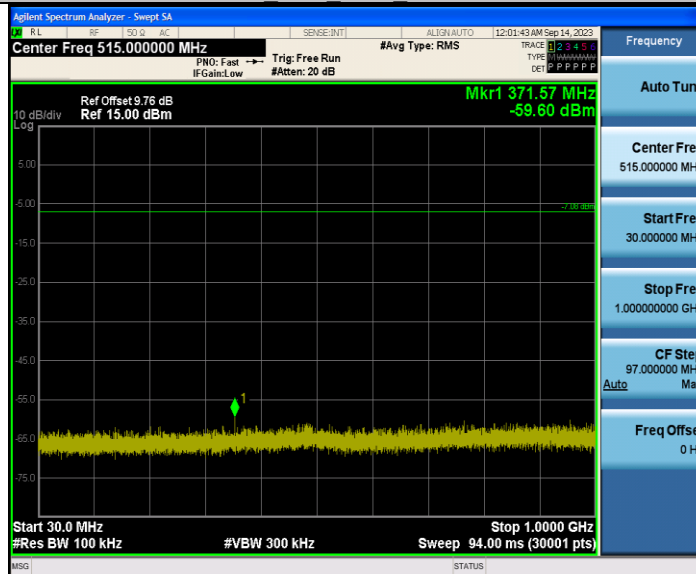


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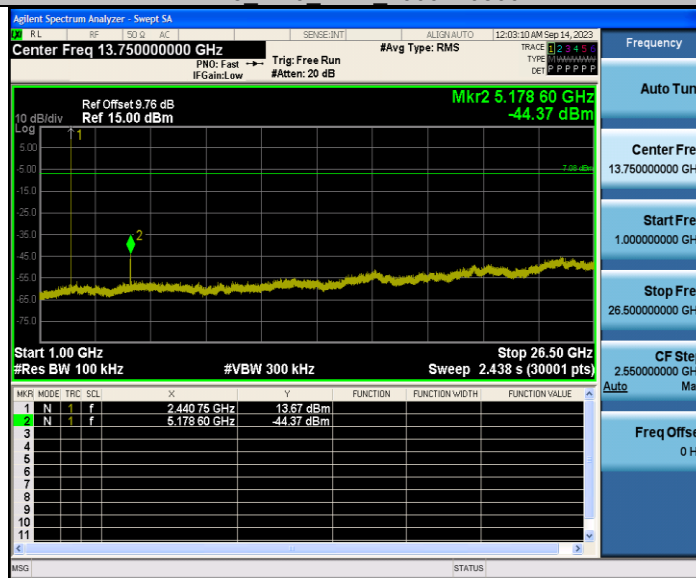
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DH5 Ant9 2441 30~1000



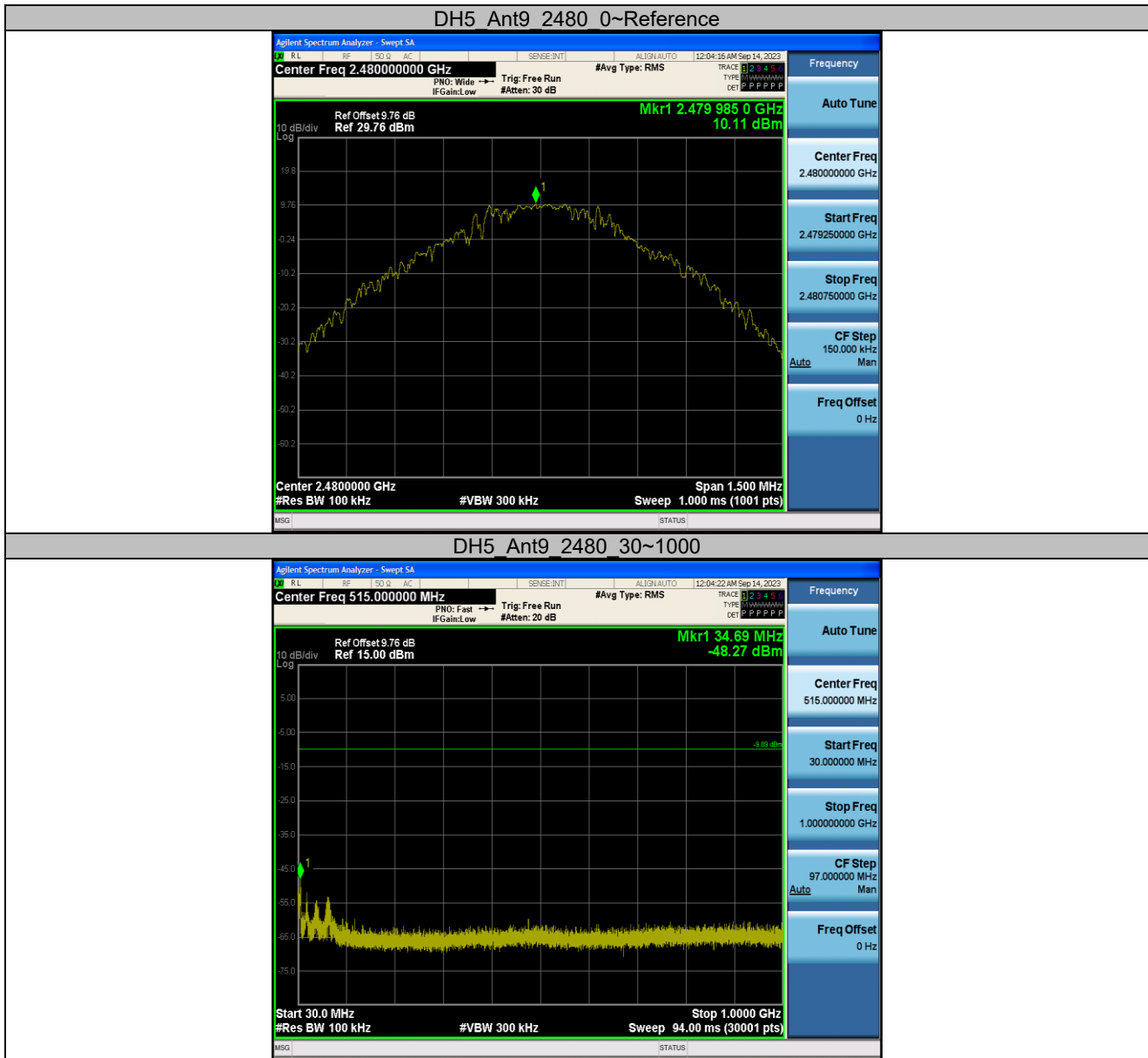
DH5 Ant9 2441 1000~26500



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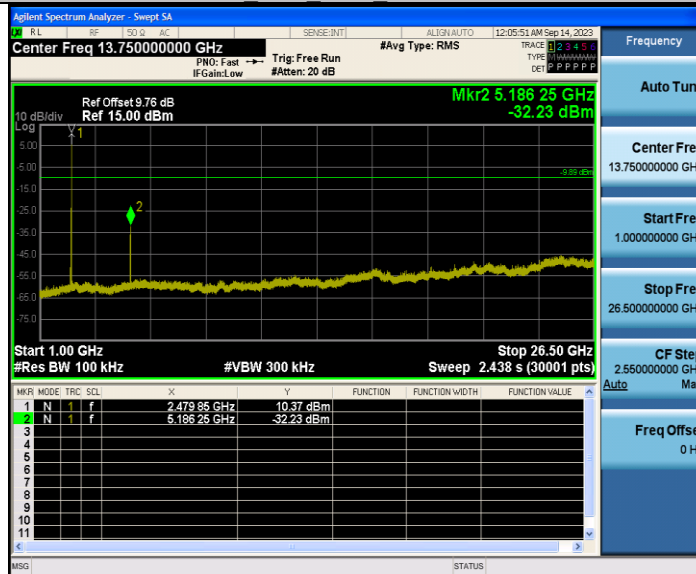
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DH5 Ant9 2480 1000~26500



2DH5 Ant9 2402 0~Reference

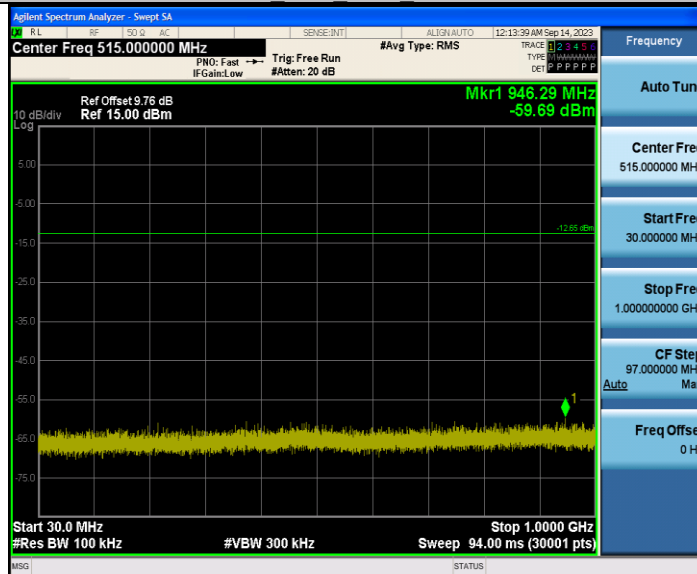


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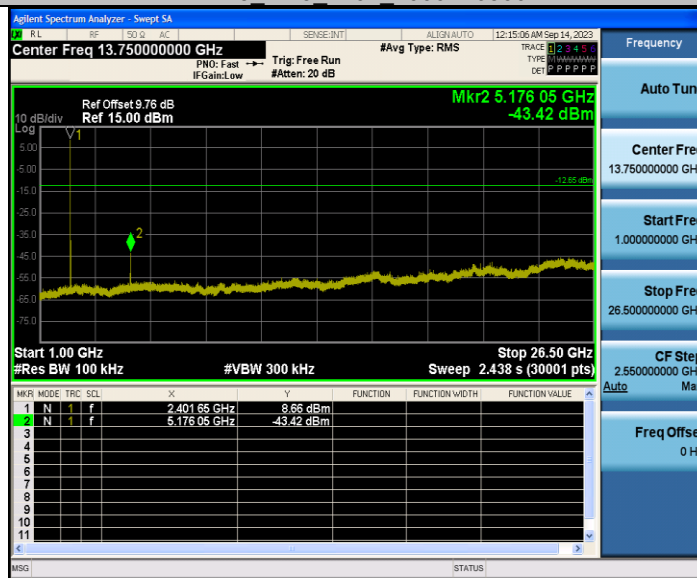
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2DH5 Ant9 2402 30~1000



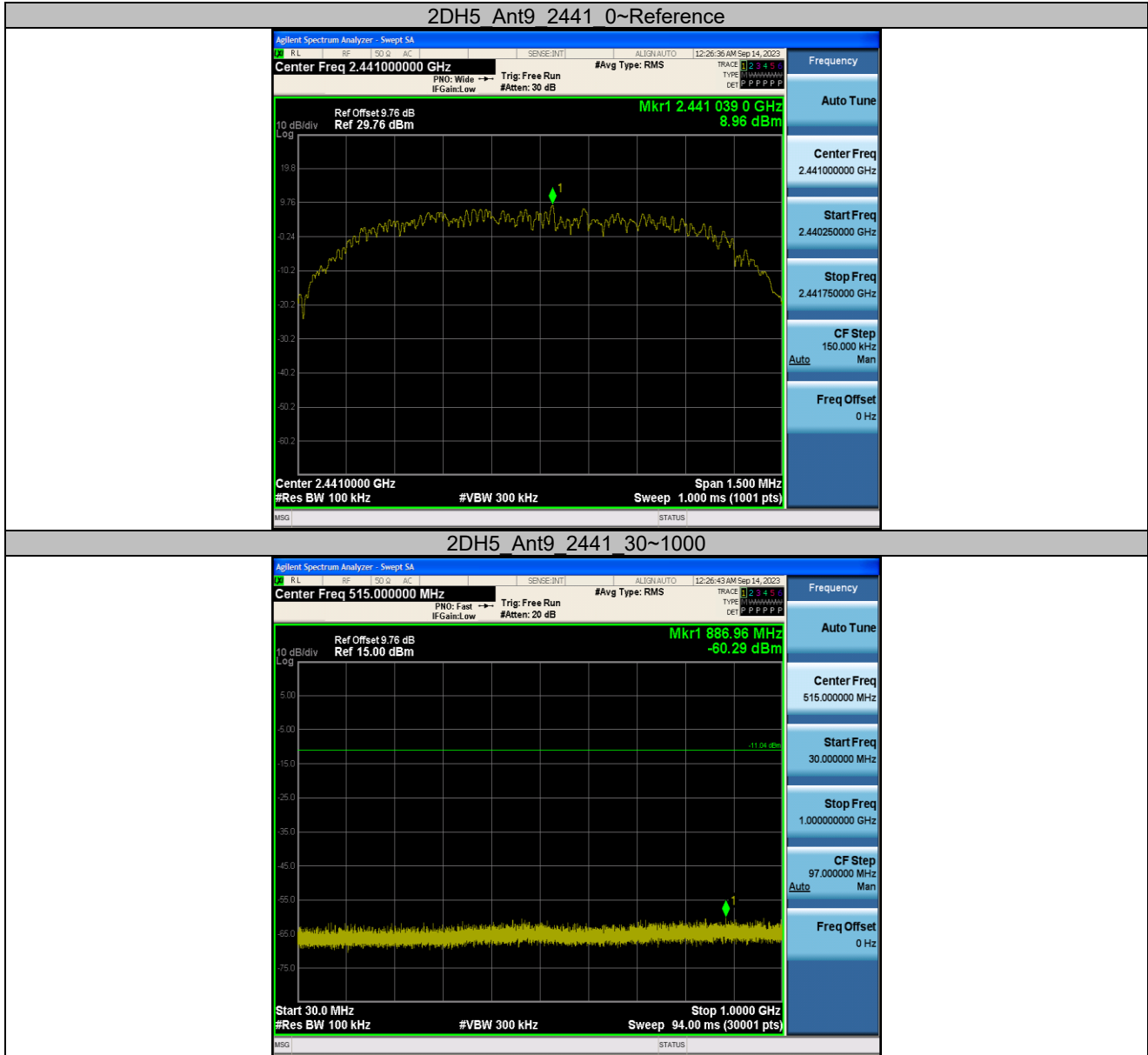
2DH5 Ant9 2402 1000~26500



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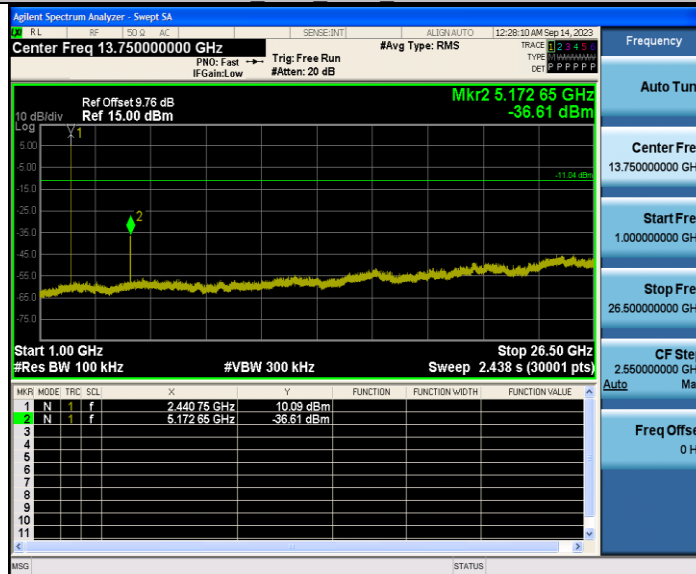


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2DH5 Ant9 2441 1000~26500



2DH5 Ant9 2480 0~Reference

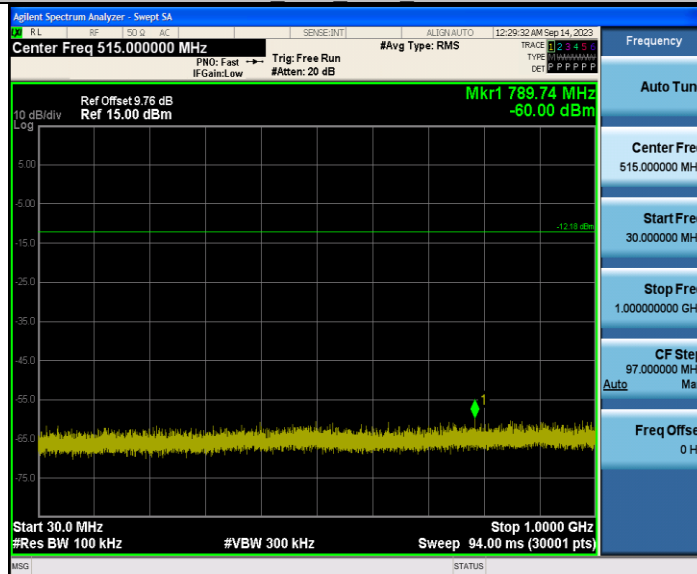


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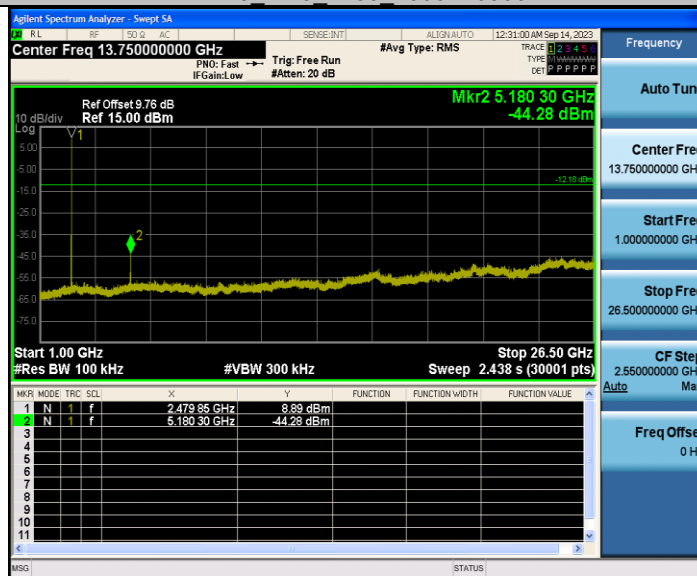
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2DH5 Ant9 2480 30~1000



Frequency
Auto Tune
Center Freq 515.000000 MHz
Start Freq 30.000000 MHz
Stop Freq 1.000000000 GHz
CF Step 97.000000 MHz Auto Man
Freq Offset 0 Hz

2DH5 Ant9 2480 1000~26500



Frequency
Auto Tune
Center Freq 13.75000000 GHz
Start Freq 1.000000000 GHz
Stop Freq 26.500000000 GHz
CF Step 2.550000000 GHz Auto Man
Freq Offset 0 Hz

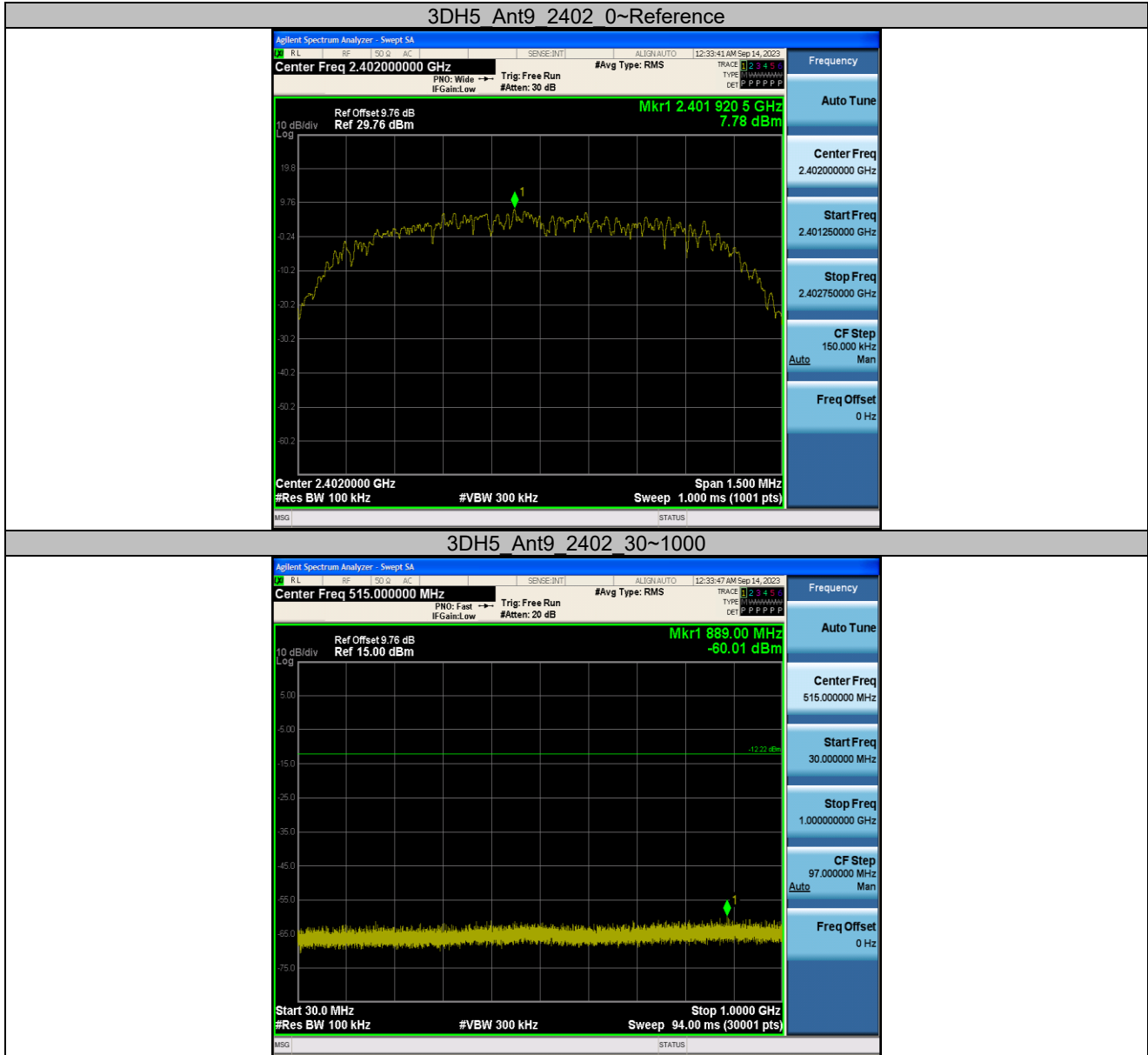


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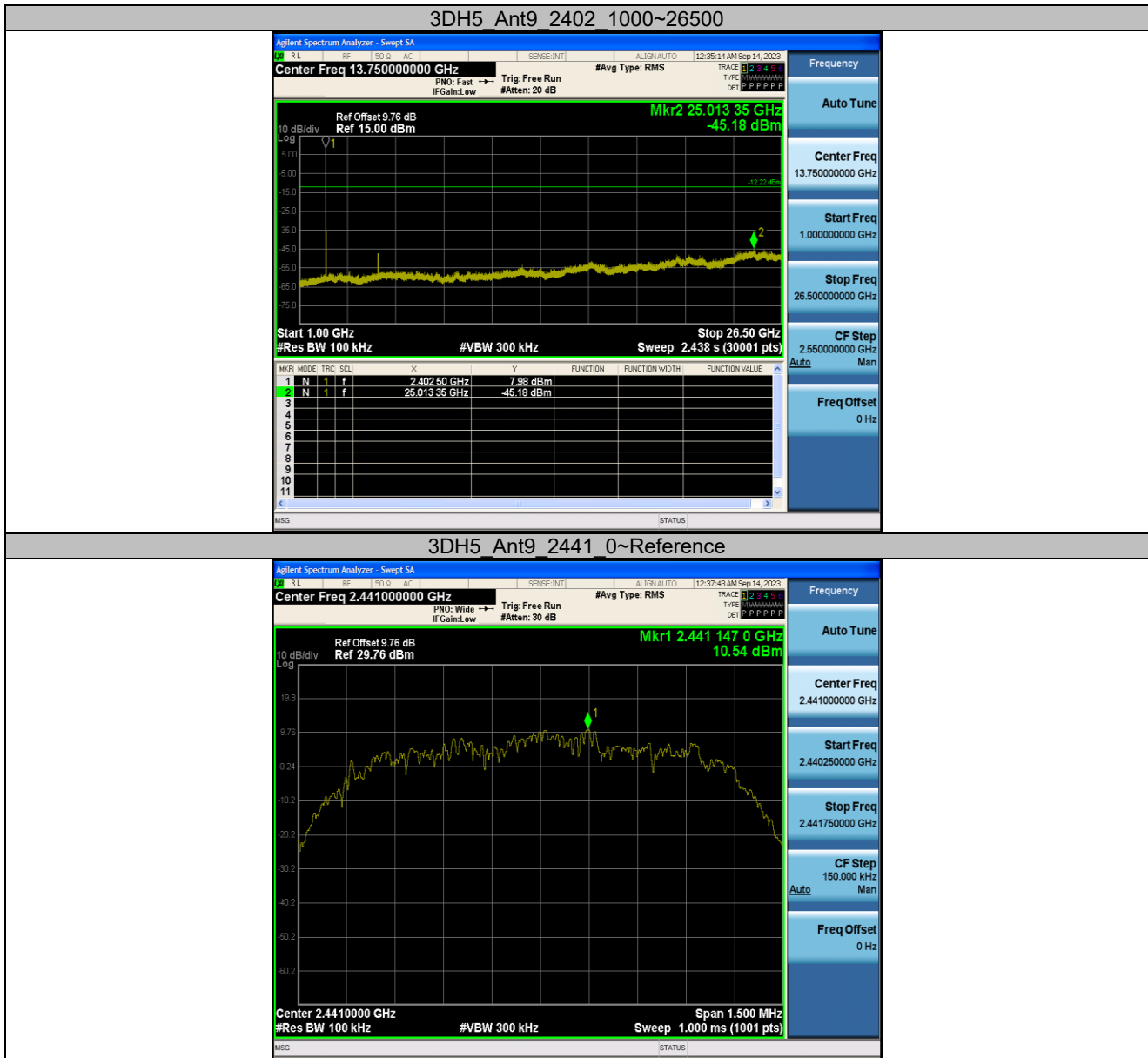
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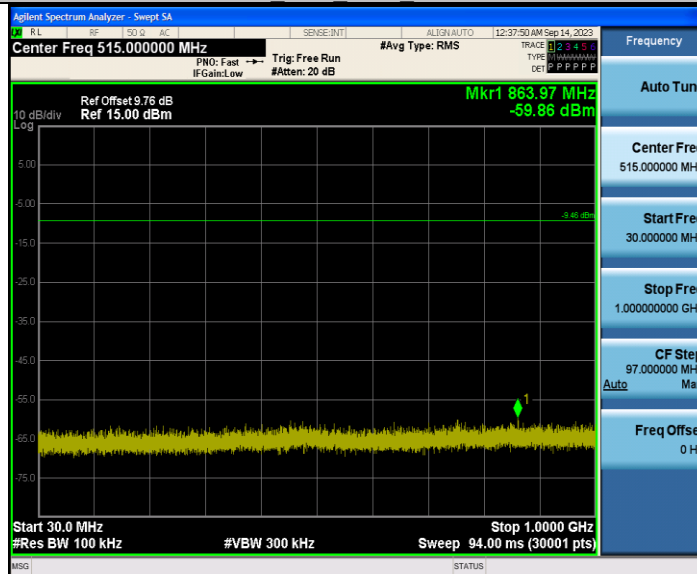


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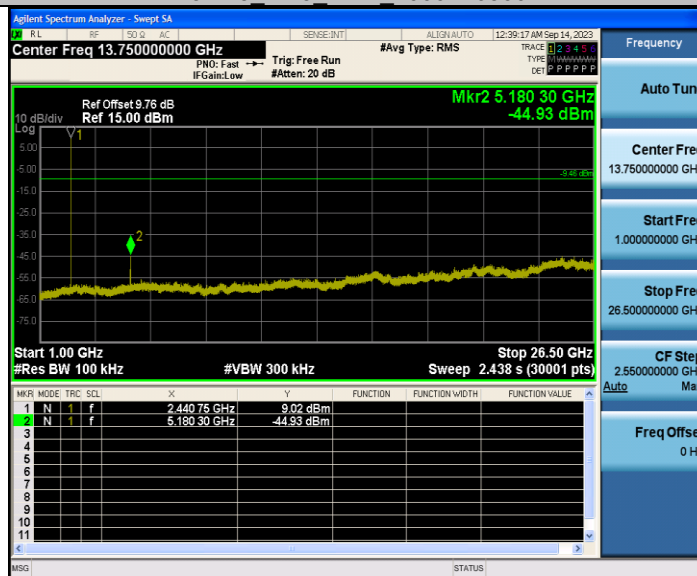
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3DH5 Ant9 2441 30~1000



Frequency
Auto Tune
Center Freq 515.000000 MHz
Start Freq 30.000000 MHz
Stop Freq 1.000000000 GHz
CF Step 97.000000 MHz Auto Man
Freq Offset 0 Hz

3DH5 Ant9 2441 1000~26500



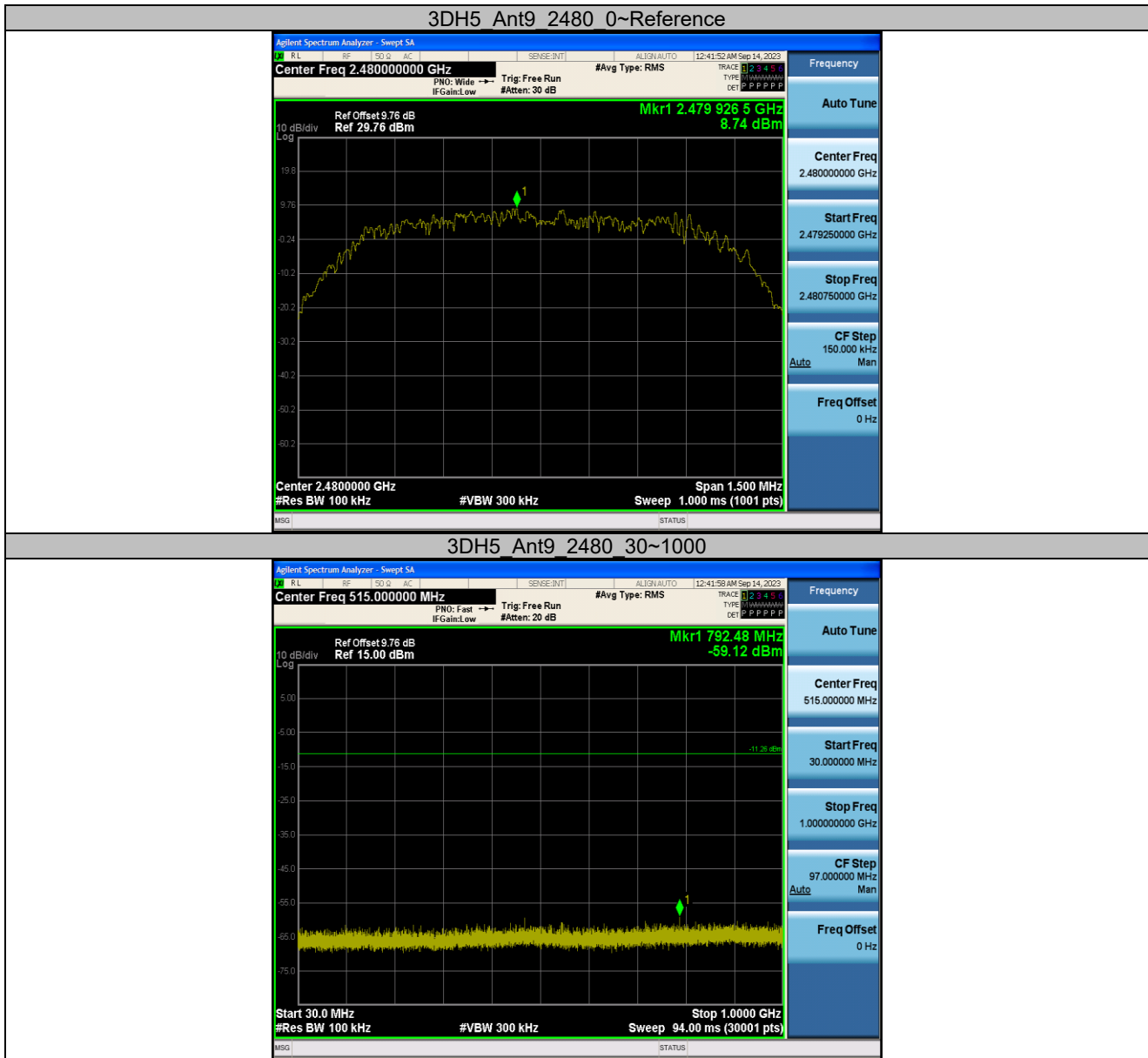
Frequency
Auto Tune
Center Freq 13.75000000 GHz
Start Freq 1.000000000 GHz
Stop Freq 26.500000000 GHz
CF Step 2.550000000 GHz Auto Man
Freq Offset 0 Hz



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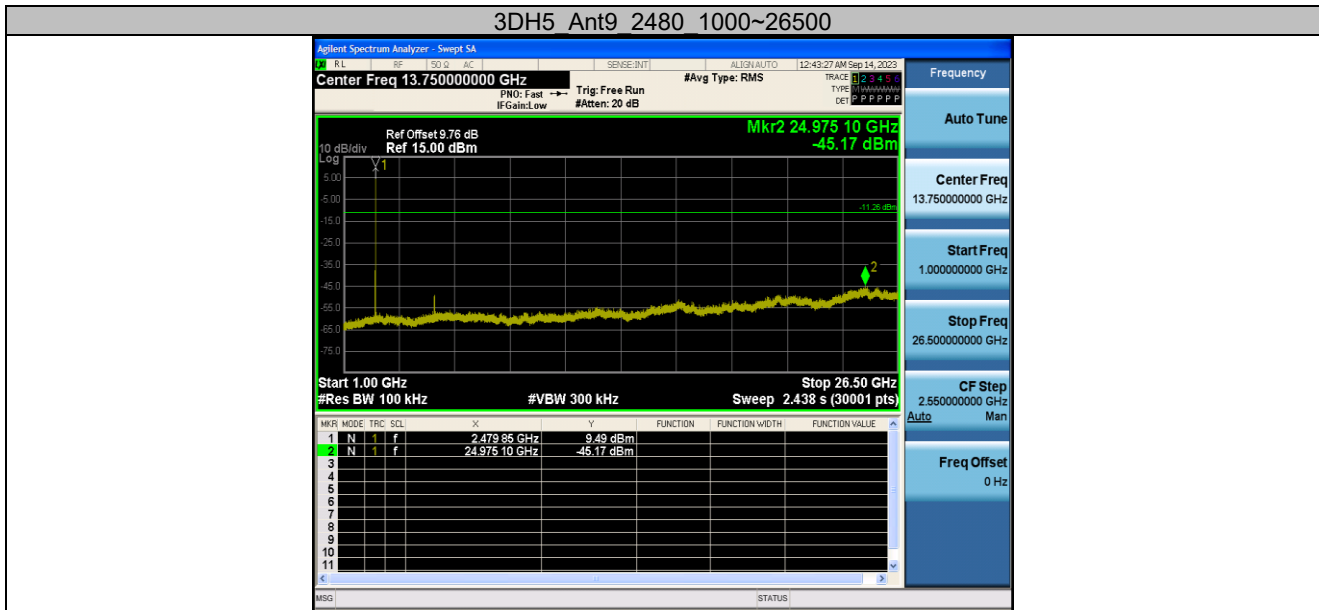
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 Rev.: 01  
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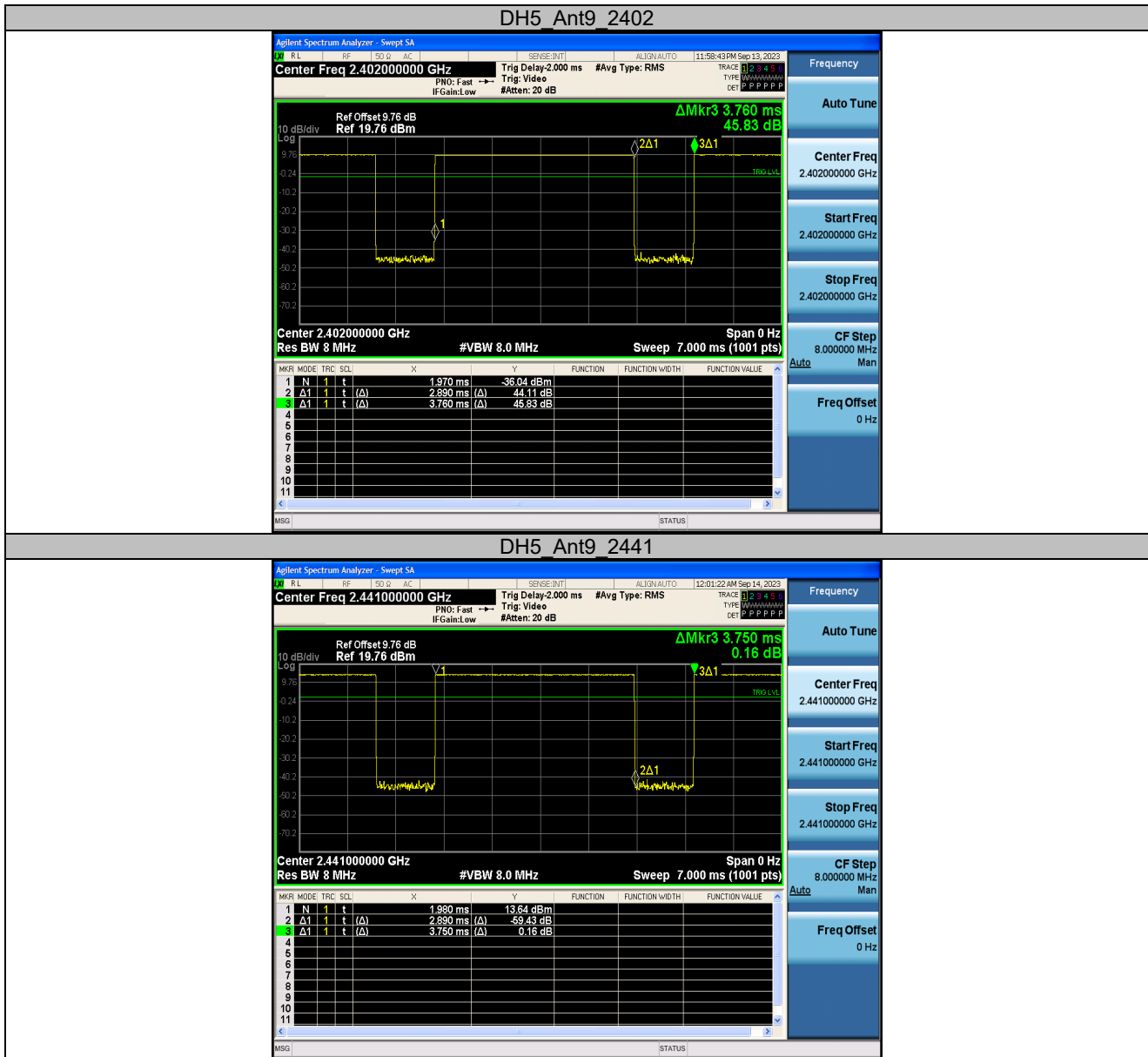
### Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant9	2402	2.89	3.76	76.86	1.14
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.75	76.80	1.15
2DH5	Ant9	2402	2.88	3.76	76.60	1.16
		2441	2.88	3.75	76.80	1.15
		2480	2.89	3.75	77.07	1.13
3DH5	Ant9	2402	2.88	3.74	77.01	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.74	77.01	1.13



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Test Graphs

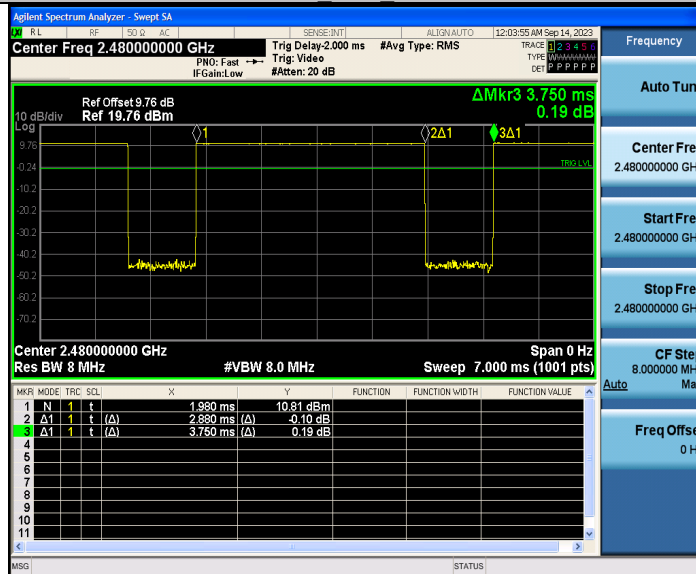


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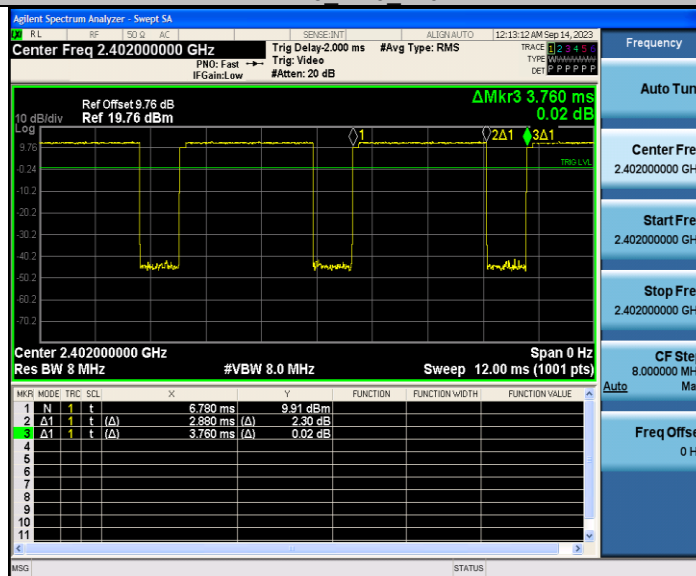
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DH5 Ant9 2480



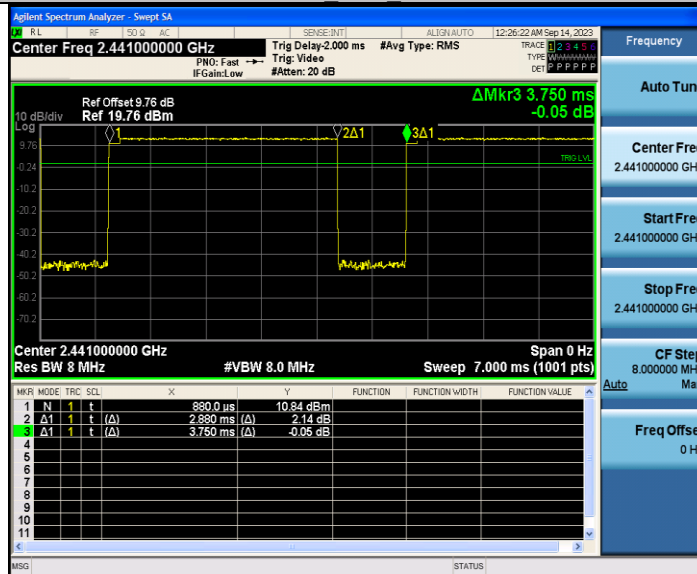
2DH5 Ant9 2402



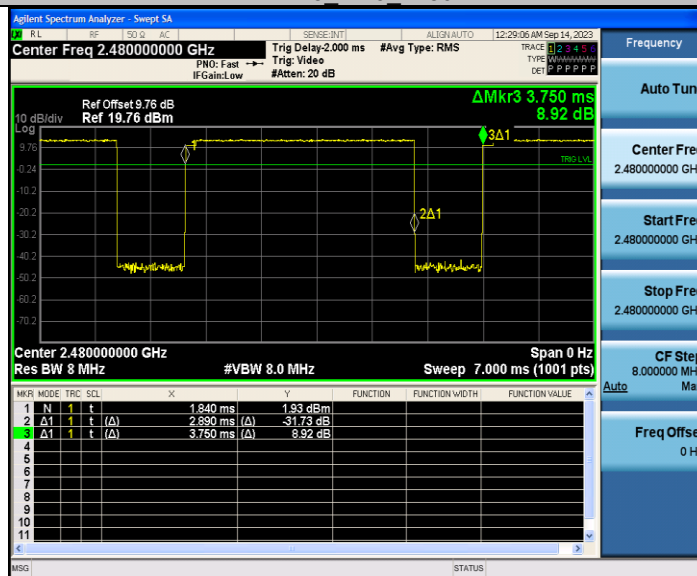
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2DH5 Ant9 2441



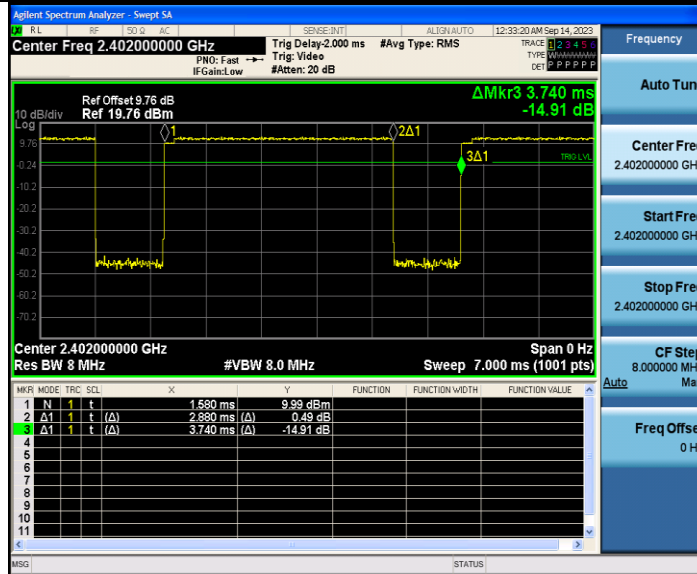
2DH5 Ant9 2480



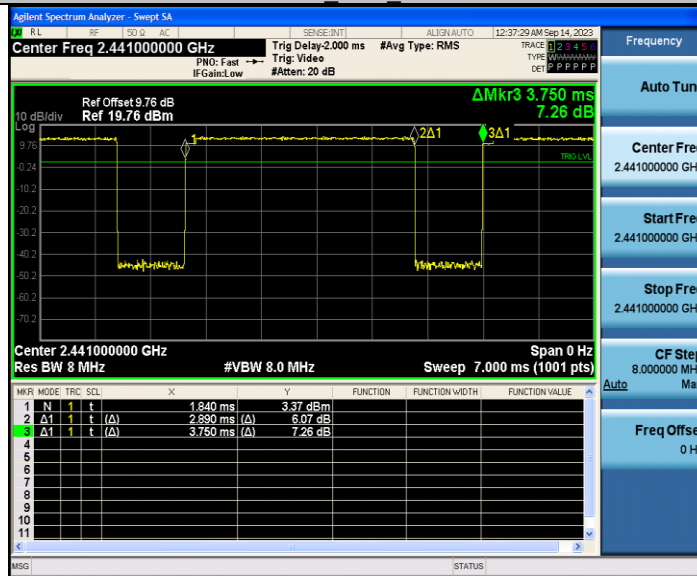
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3DH5 Ant9 2402

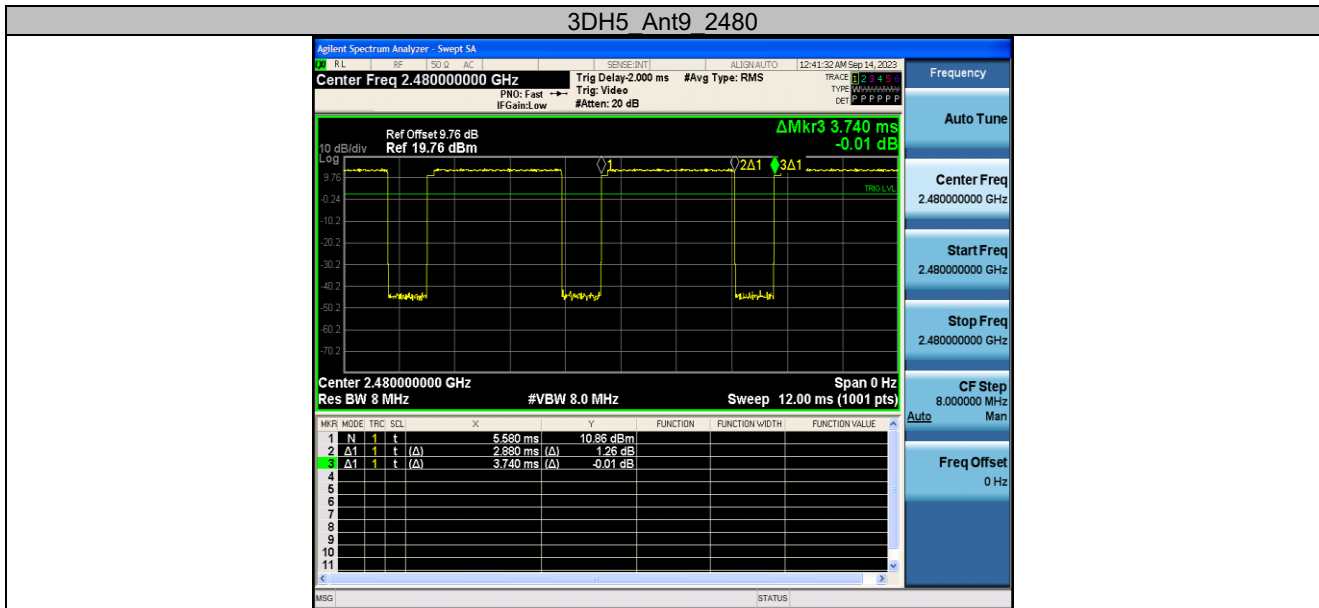


3DH5 Ant9 2441



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Report No.: XEWM2309000451RG03  
 Rev.: 01  
 Page: 83 of 98

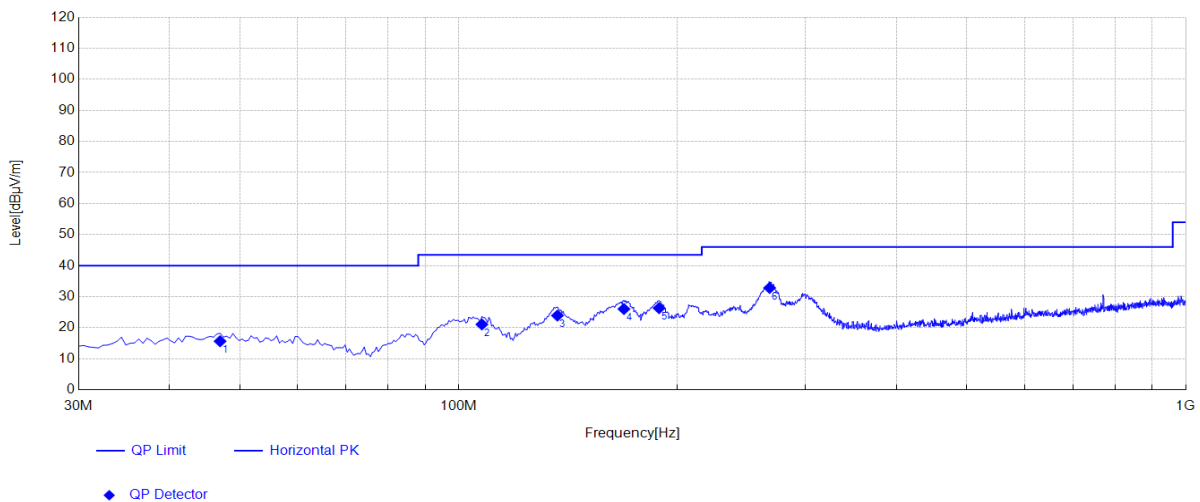


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**Radiated Spurious Emissions**  
**Radiated emission below 1GHz**  
**Worst case Mode: GFSK\_Channel 78**

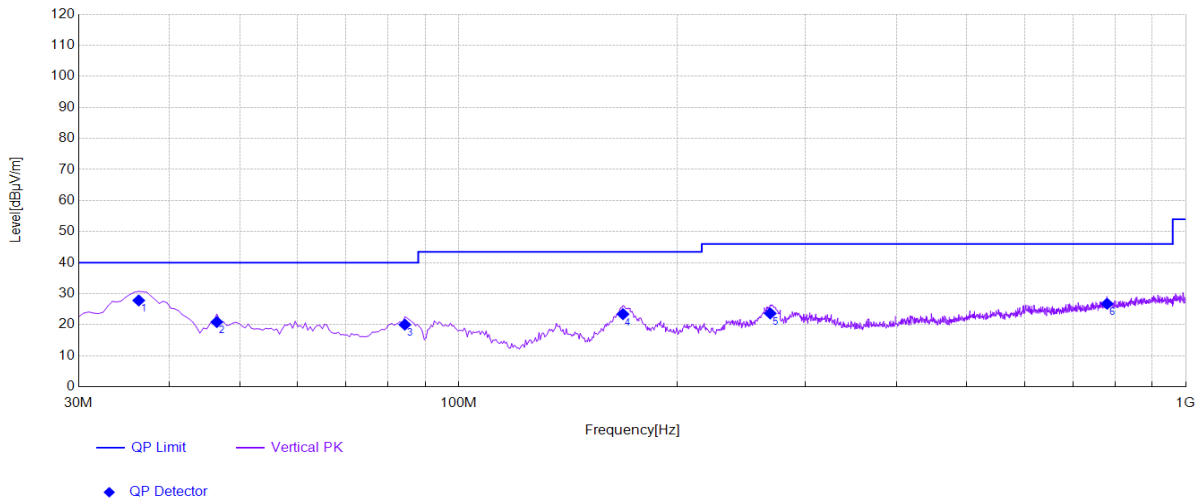


Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	46.9835	14.30	-27.78	29.15	15.67	40.00	24.33	Horizontal
2	107.6388	11.76	-27.12	36.44	21.08	43.50	22.42	Horizontal
3	136.7534	7.62	-26.52	42.84	23.94	43.50	19.56	Horizontal
4	168.7794	8.88	-26.50	43.67	26.05	43.50	17.45	Horizontal
5	188.6743	10.30	-26.67	42.68	26.31	43.50	17.19	Horizontal
6	267.7689	12.51	-26.11	46.43	32.83	46.00	13.17	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	36.3082	11.89	-27.99	43.93	27.83	40.00	12.17	Vertical
2	46.4982	14.20	-27.79	34.48	20.89	40.00	19.11	Vertical
3	84.3472	8.57	-27.40	38.87	20.04	40.00	19.96	Vertical
4	168.2941	8.83	-26.50	41.1	23.43	43.50	20.07	Vertical
5	268.2541	12.53	-26.09	37.22	23.66	46.00	22.34	Vertical
6	779.6998	20.77	-23.77	29.78	26.78	46.00	19.22	Vertical

Remark:

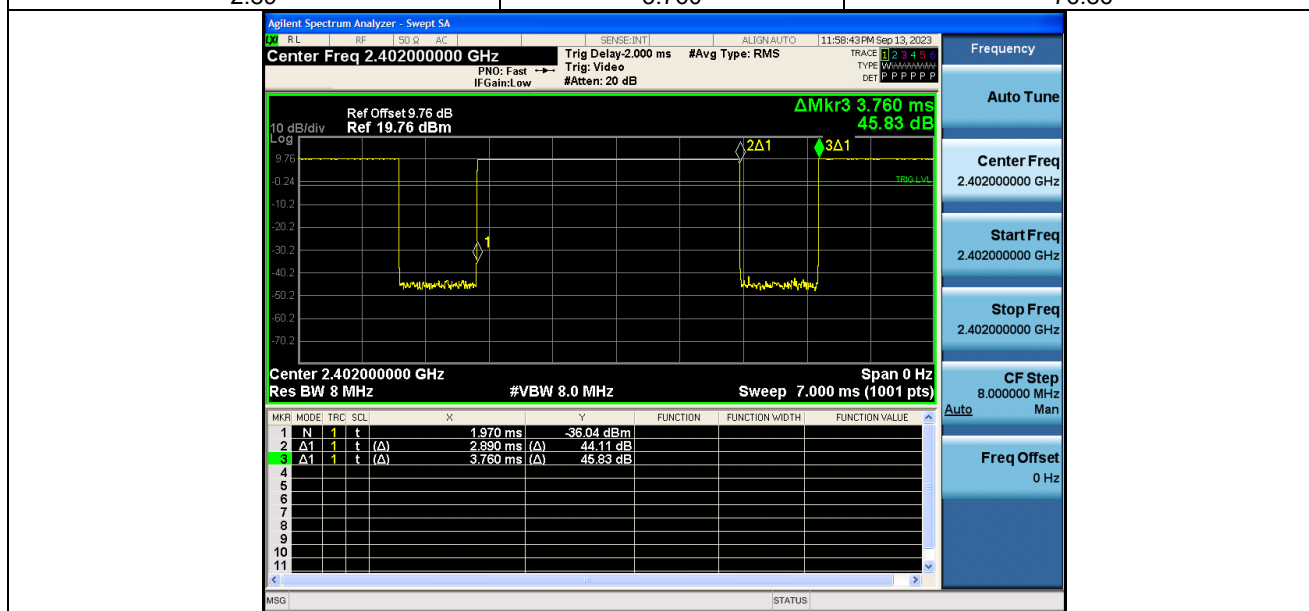
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
 Value = Reading(dBµV) + AF(dB/m) + Factor(dB);  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit(dBµV/m) – Value(dBµV/m)
- All channels have been tested, but only the worst case data displayed in this report.



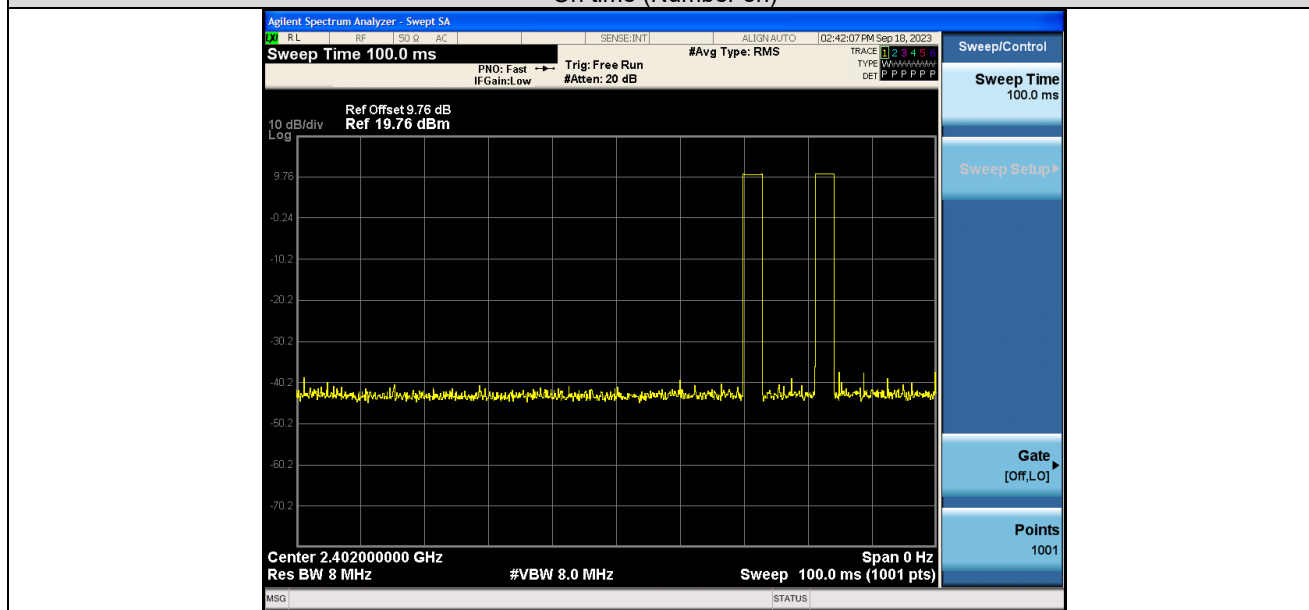
**Transmitter emission Above 1GHz**  
**Duty cycle**

GFSK\_Channel 0

ON Time[ms]	Period[ms]	Duty Cycle[%]
2.89	3.760	76.86



On time (Number on)



Note:

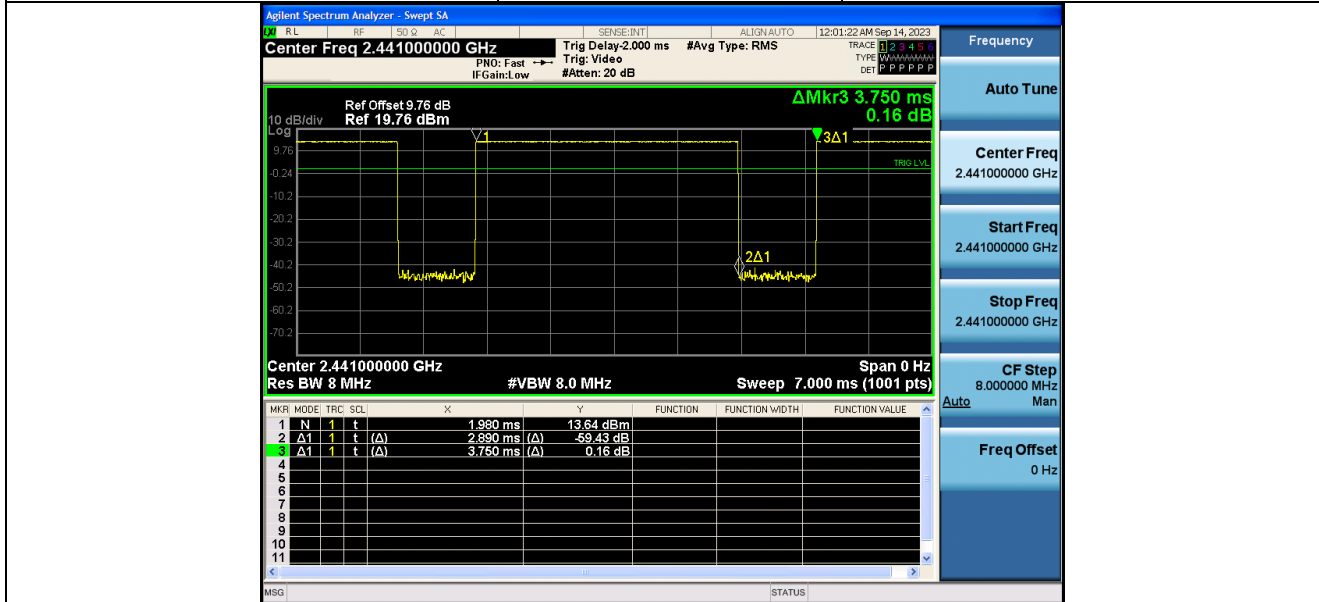
Duty cycle = on time / 100ms = 2 \* 2.89 / 100 = 5.78%  
 Duty cycle Correction factor = 20\*log(Duty cycle) = -24.76dB



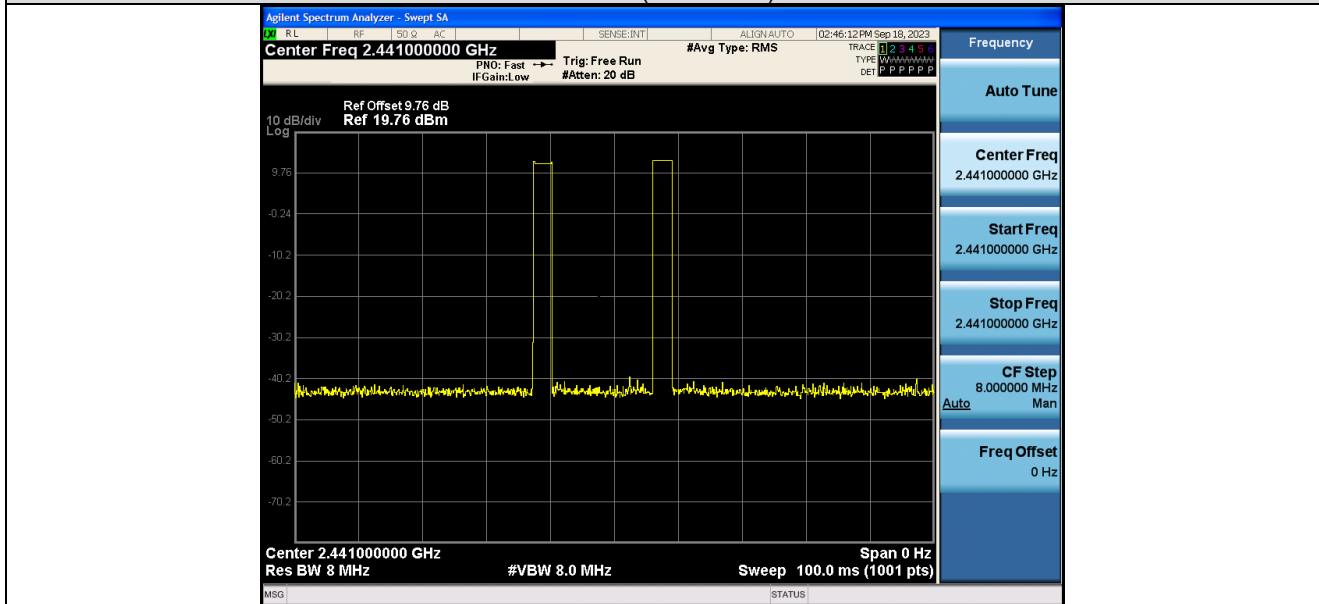
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**GFSK\_Channel 39**

ON Time[ms]	Period[ms]	Duty Cycle[%]
2.89	3.750	77.07



**On time (Number on)**



Note:

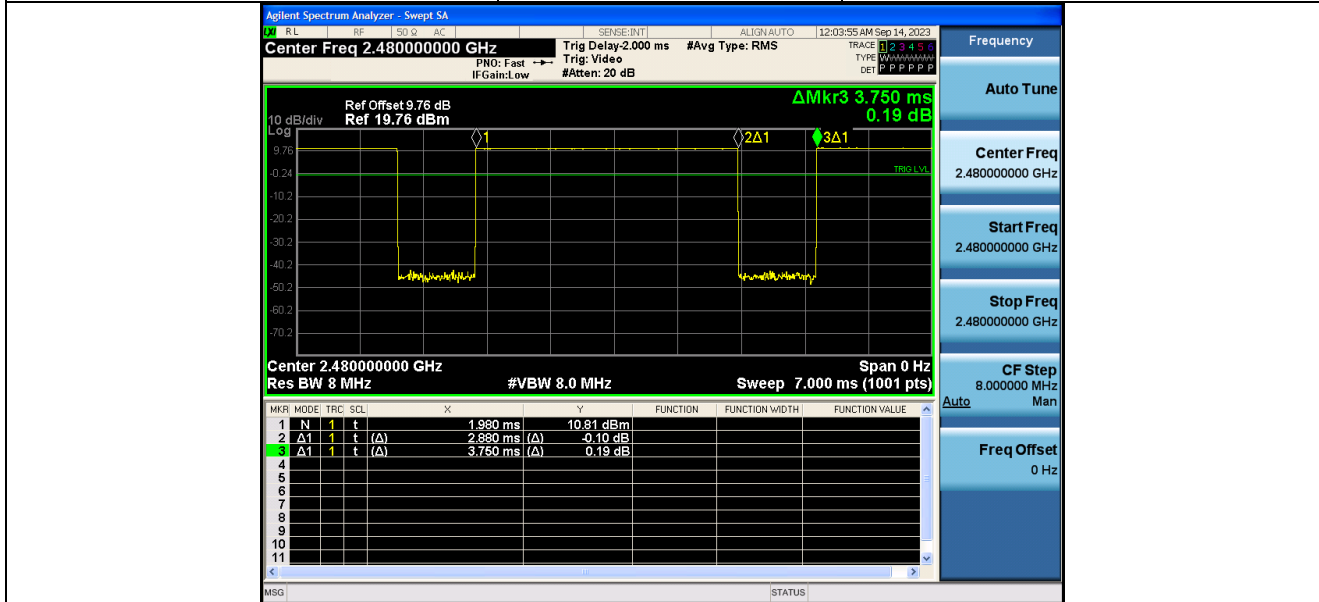
Duty cycle = on time / 100ms = 2 \* 2.89 / 100 = 5.78%  
 Duty cycle Correction factor = 20\*log(Duty cycle) = -24.76dB



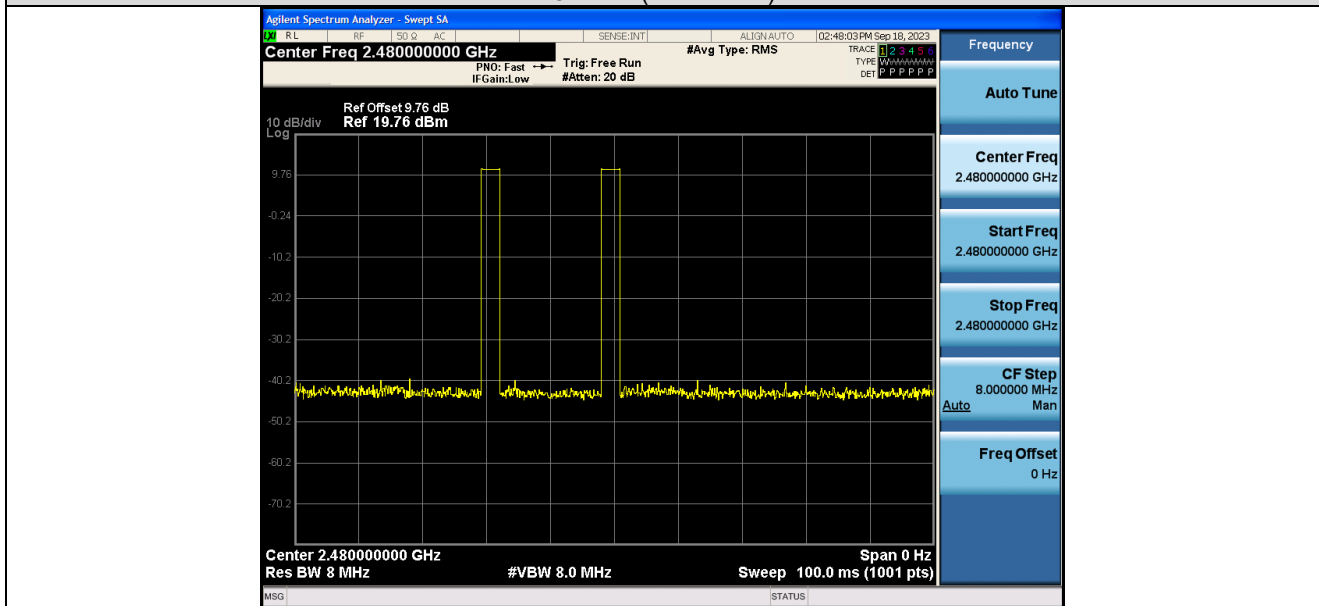
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**GFSK\_Channel 79**

ON Time[ms]	Period[ms]	Duty Cycle[%]
2.88	3.750	76.80



**On time (Number on)**



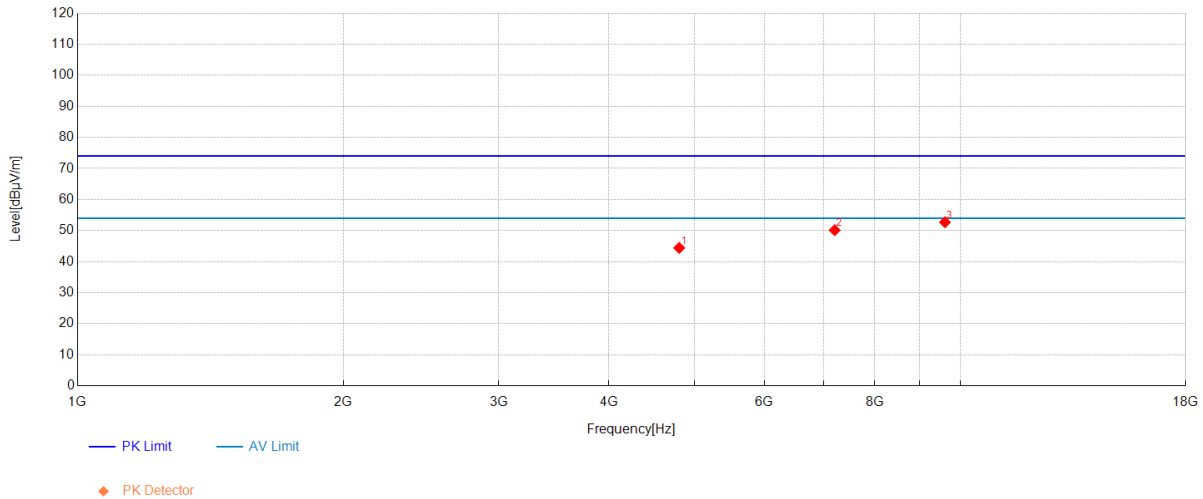
Note:  
 Duty cycle = on time / 100ms = 2 \* 2.88 / 100 = 5.760%  
 Duty cycle Correction factor = 20\*log(Duty cycle) = -24.79dB



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GFSK\_Channel 0

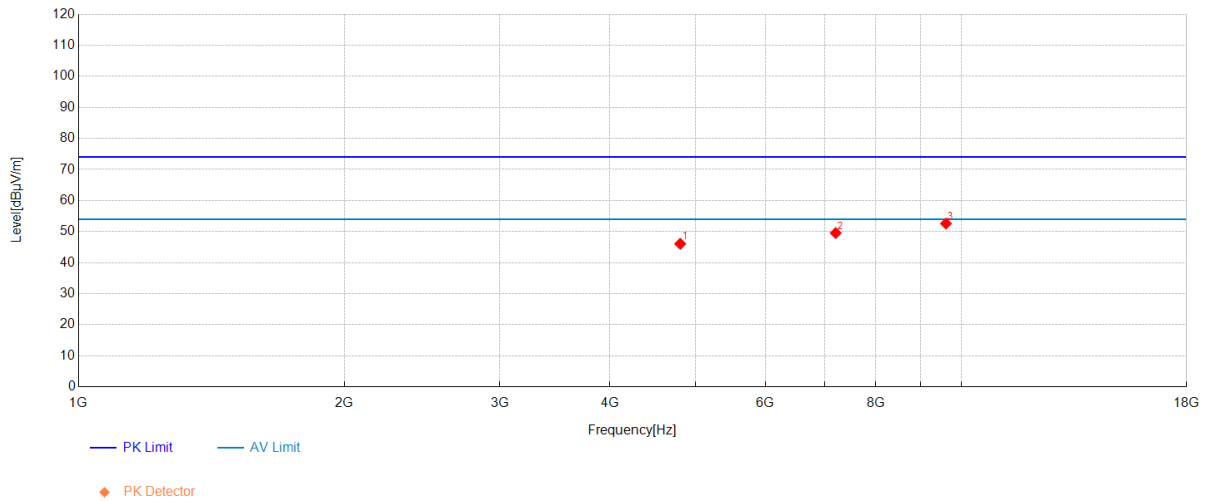


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4804	59.75	32.43	-47.74	44.44	74.00	29.56	Horizontal
	4804	-	-	-	19.68	54.00	34.32	-
2	7206	57.77	37.11	-44.74	50.14	74.00	23.86	Horizontal
	7206	-	-	-	25.38	54.00	28.62	-
3	9608	54.66	39.14	-41.10	52.70	74.00	21.30	Horizontal
	9608	-	-	-	27.94	54.00	26.06	-



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GFSK\_Channel 0

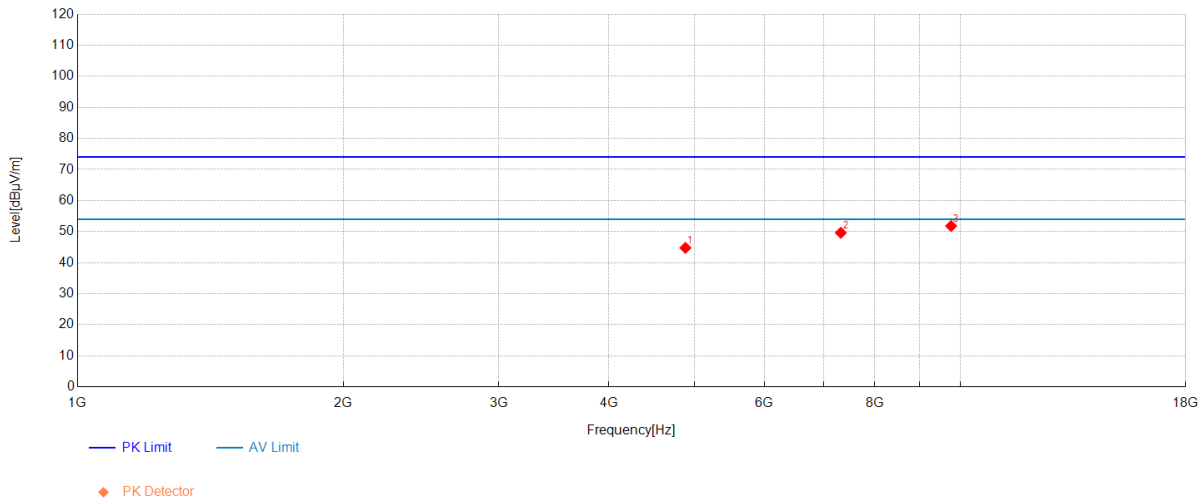


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4804	61.38	32.43	-47.74	46.07	74.00	27.93	Vertical
	4804	-	-	-	21.31	54.00	32.69	-
2	7206	57.16	37.11	-44.74	49.53	74.00	24.47	Vertical
	7206	-	-	-	24.77	54.00	29.23	-
3	9608	54.55	39.14	-41.10	52.59	74.00	21.41	Vertical
	9608	-	-	-	27.83	54.00	26.17	-



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GFSK\_Channel 39

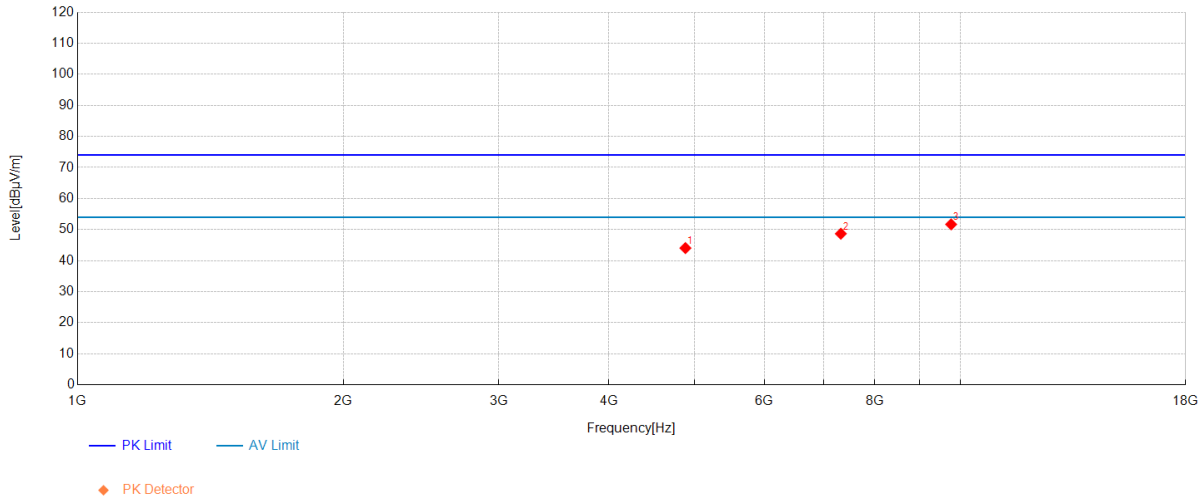


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4882	59.35	32.99	-47.58	44.76	74.00	29.24	Horizontal
	4882	-	-	-	20.00	54.00	34.00	-
2	7323	57.39	37.01	-44.78	49.62	74.00	24.38	Horizontal
	7323	-	-	-	24.86	54.00	29.14	-
3	9764	54.19	38.83	-41.21	51.81	74.00	22.19	Horizontal
	9764	-	-	-	27.05	54.00	26.95	-



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GFSK\_Channel 39

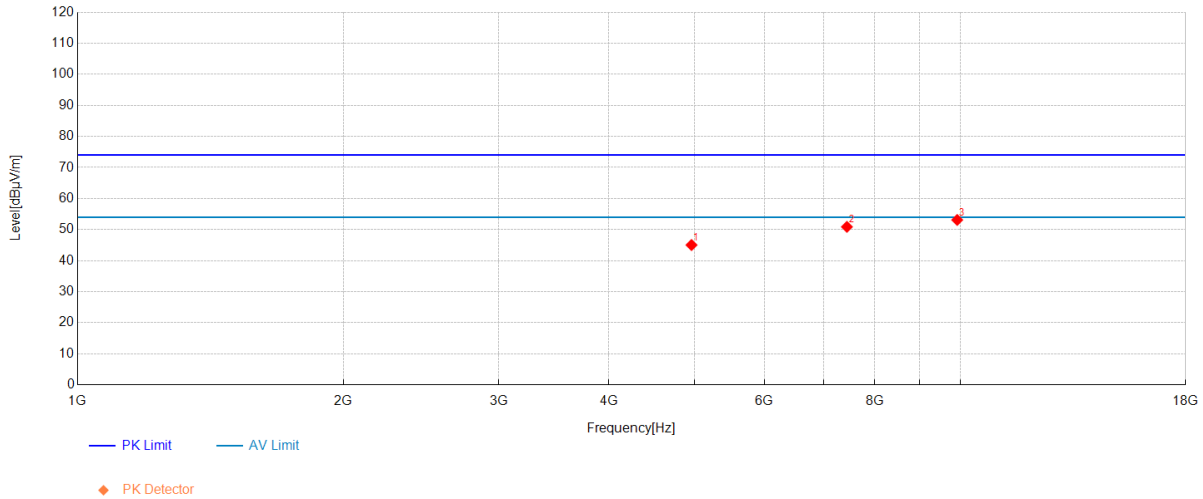


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4882	58.65	32.99	-47.58	44.06	74.00	29.94	Vertical
	4882	-	-	-	19.30	54.00	34.70	-
2	7323	56.45	37.01	-44.78	48.68	74.00	25.32	Vertical
	7323	-	-	-	23.92	54.00	30.08	-
3	9764	54.06	38.83	-41.21	51.68	74.00	22.32	Vertical
	9764	-	-	-	26.92	54.00	27.08	-



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GFSK\_Channel 78

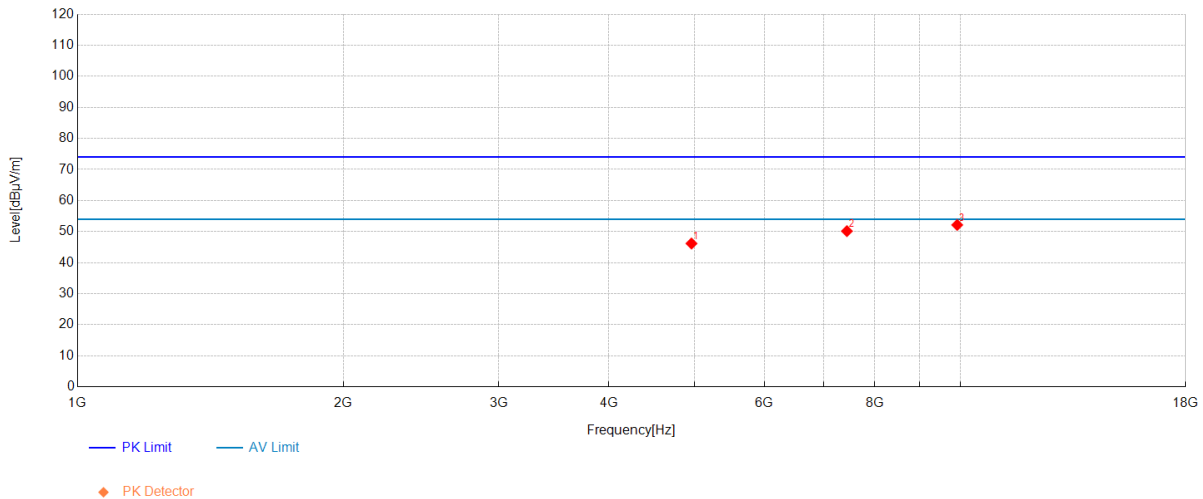


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4960	58.97	33.18	-47.11	45.04	74.00	28.96	Horizontal
	4960	-	-	-	20.25	54.00	33.75	-
2	7440	57.83	36.72	-43.66	50.89	74.00	23.11	Horizontal
	7440	-	-	-	26.10	54.00	27.90	-
3	9920	55.33	38.98	-41.20	53.11	74.00	20.89	Horizontal
	9920	-	-	-	28.32	54.00	25.68	-



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**GFSK\_Channel 78**



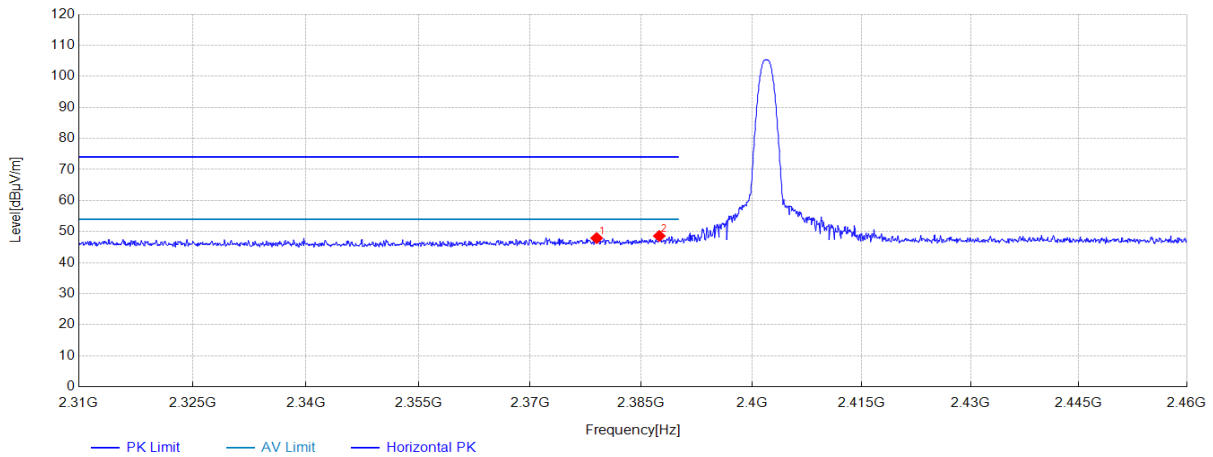
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4960	60.10	33.18	-47.11	46.17	74.00	27.83	Vertical
	4960	-	-	-	21.38	54.00	32.62	-
2	7440	57.10	36.72	-43.66	50.16	74.00	23.84	Vertical
	7440	-	-	-	25.37	54.00	28.63	-
3	9920	54.36	38.98	-41.20	52.14	74.00	21.86	Vertical
	9920	-	-	-	27.35	54.00	26.65	-

**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:  
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$   
 $AF = Antenna\ Factor(dB/m)$   
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$   
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.



## 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	2378.9595	38.06	27.84	-17.99	47.91	74.00	26.09	Horizontal
	2378.9595	-	-	-	23.15	54.00	30.85	-
2	2387.4387	38.55	27.83	-17.78	48.60	74.00	25.40	Horizontal
	2387.4387	-	-	-	23.84	54.00	30.16	-

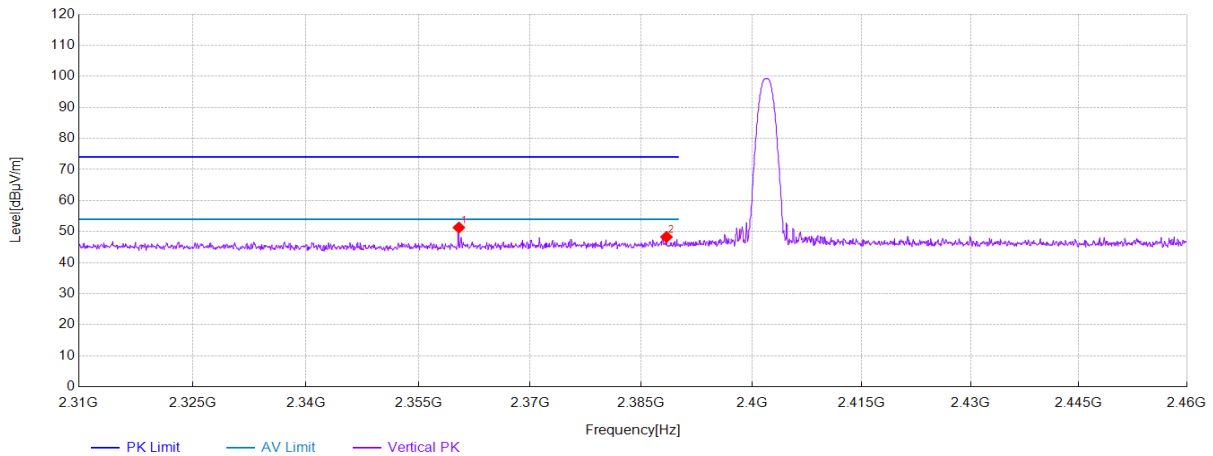


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**GFSK\_Channel 0**



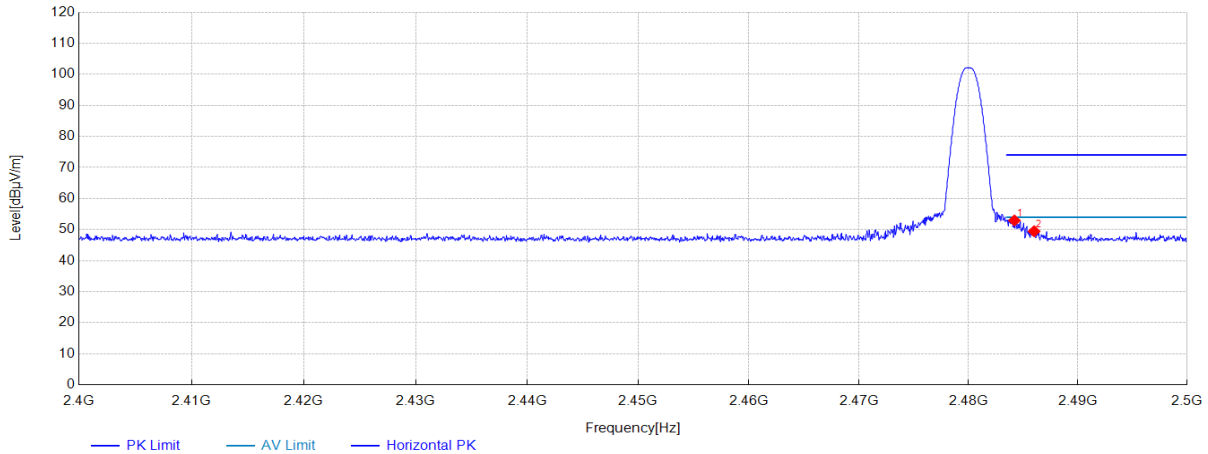
Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2360.4252	41.86	27.88	-18.44	51.30	74.00	22.70	Vertical
	2360.4252	-	-	-	26.54	54.00	27.46	-
2	2388.4142	38.22	27.82	-17.76	48.28	74.00	25.72	Vertical
	2388.4142	-	-	-	23.52	54.00	30.48	-



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GFSK\_Channel 78

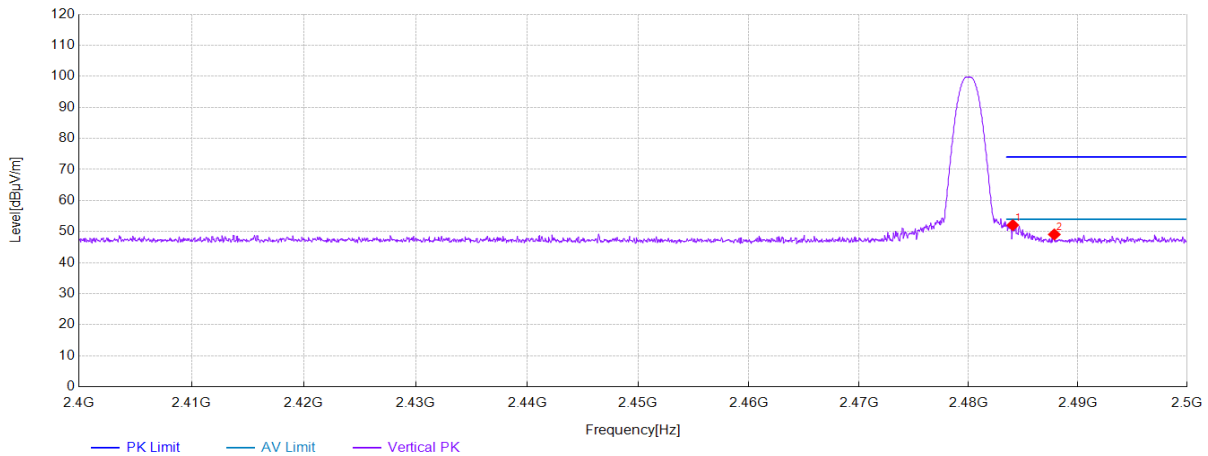


Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2484.1921	42.94	27.97	-17.96	52.95	74.00	21.05	Horizontal
	2484.1921	-	-	-	28.16	54.00	25.84	-
2	2485.993	39.48	27.97	-17.98	49.47	74.00	24.53	Horizontal
	2485.993	-	-	-	24.68	54.00	29.32	-



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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	2484.042	42.08	27.97	-17.96	52.09	74.00	21.91	Vertical
	2484.042	-	-	-	27.30	54.00	26.70	-
2	2487.8439	39.09	27.98	-17.99	49.08	74.00	24.92	Vertical
	2487.8439	-	-	-	24.29	54.00	29.71	-

**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:

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

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

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

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$

---End of Report---

