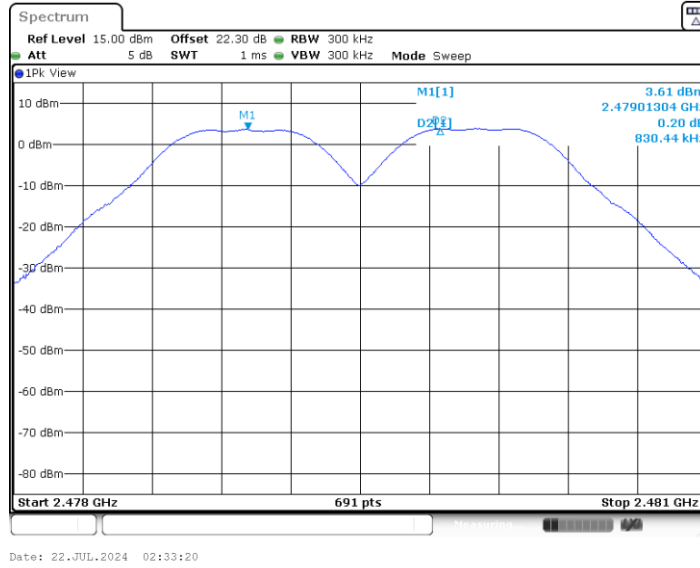
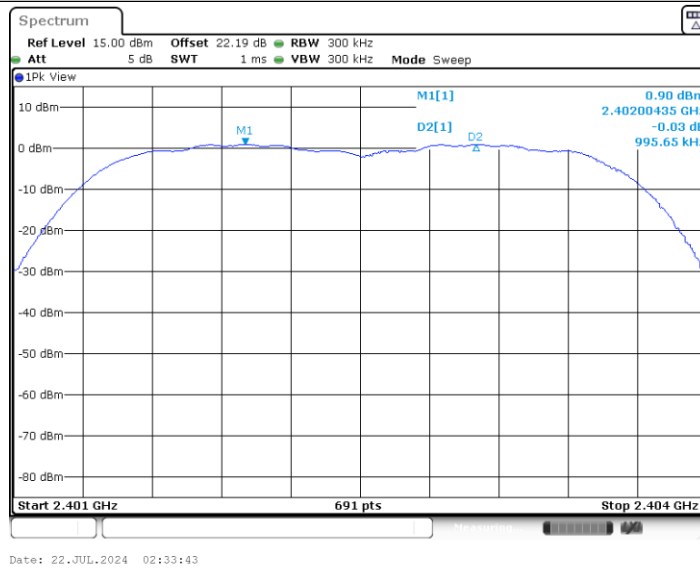




DH5_Ant7_2480



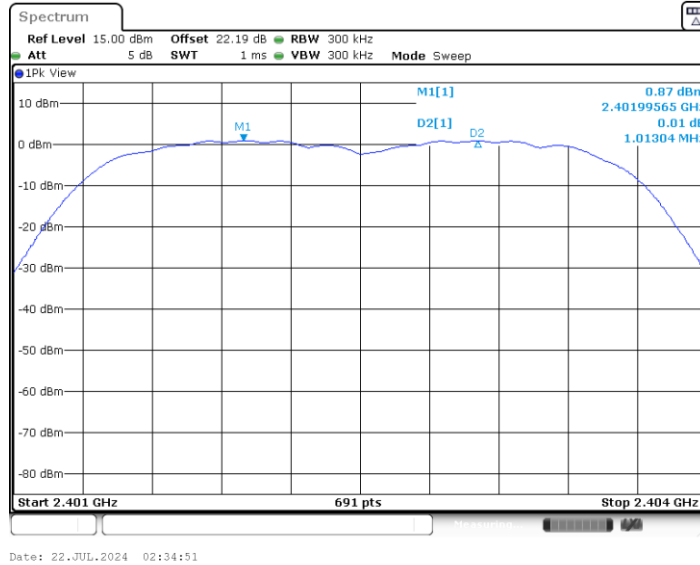
2DH1_Ant7_2402



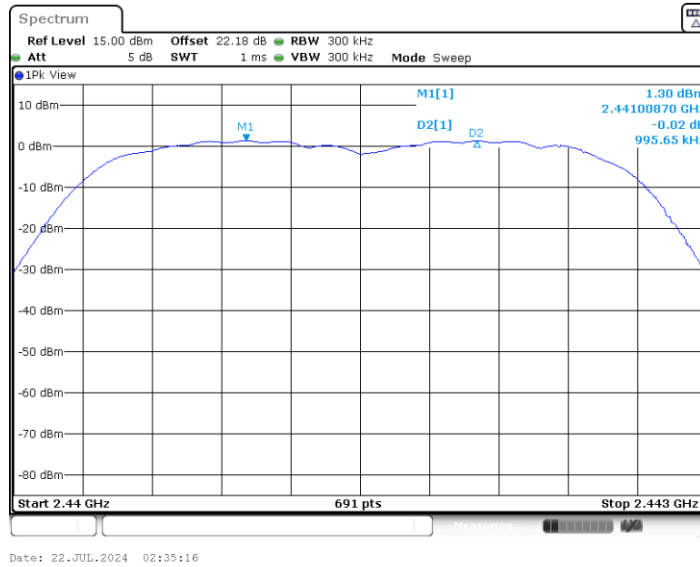


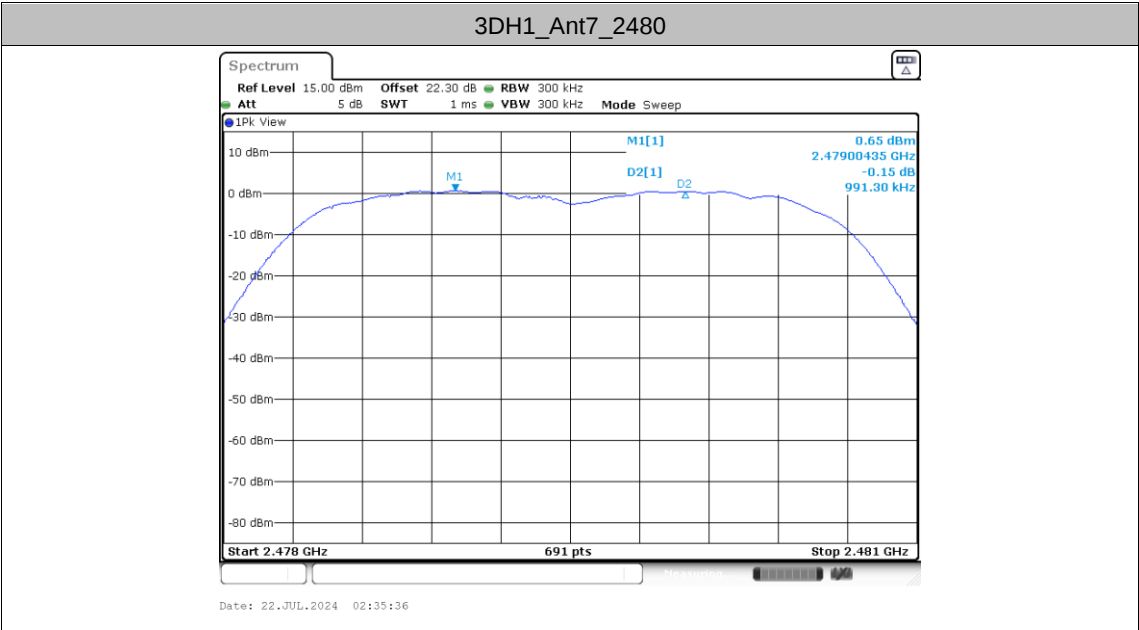


3DH1_Ant7_2402



3DH1_Ant7_2441





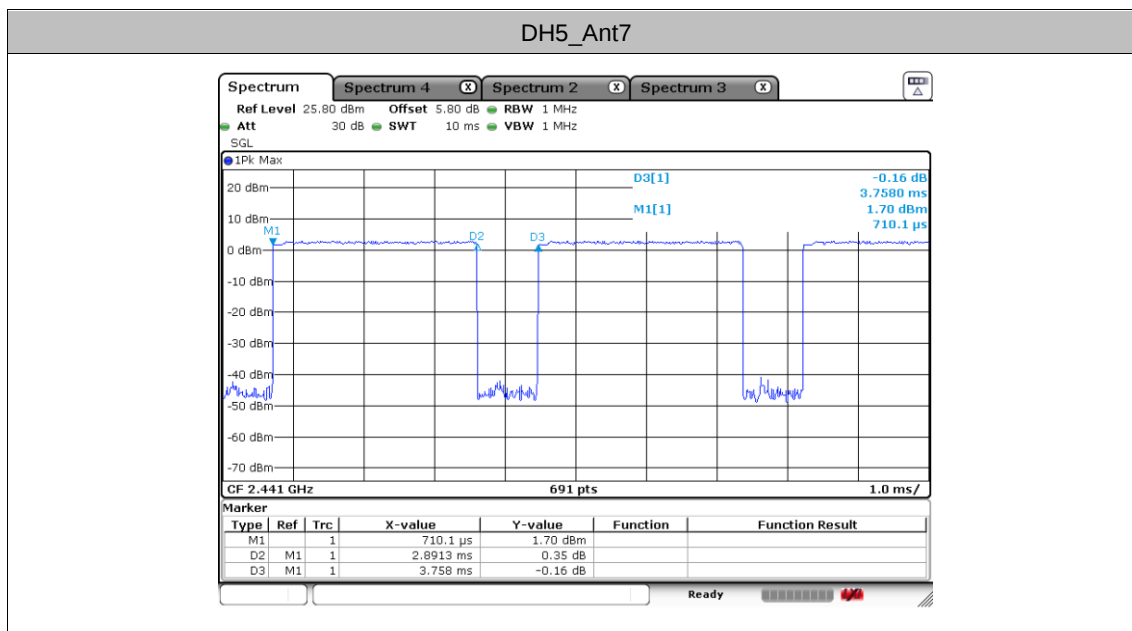


Time of occupancy

Test Result

TestMode	Antenna	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Normal	Ant7	79	106.67	2.8913	0.31	0.4	Pass
AFH	Ant7	20	53.33	2.8913	0.15	0.4	Pass

Test Graphs



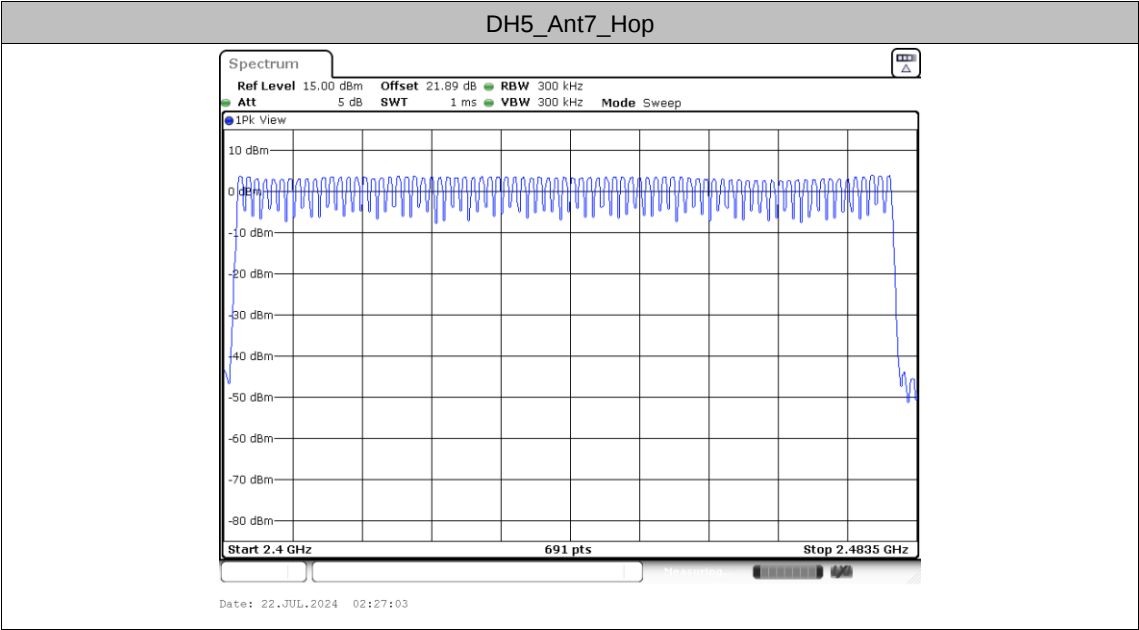


Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant7	Hop	79	≥15	PASS

Test Graphs





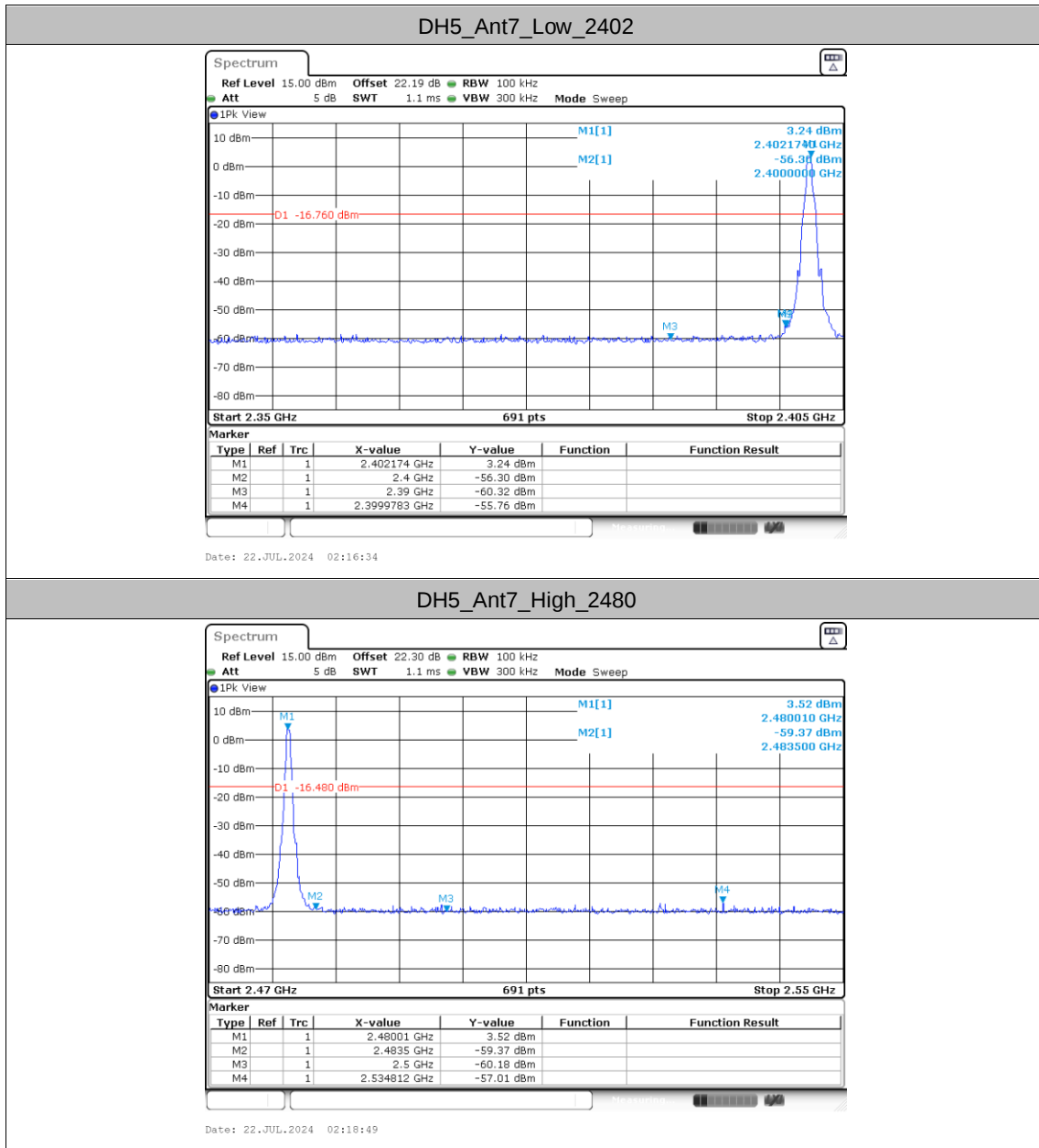
Band edge measurements

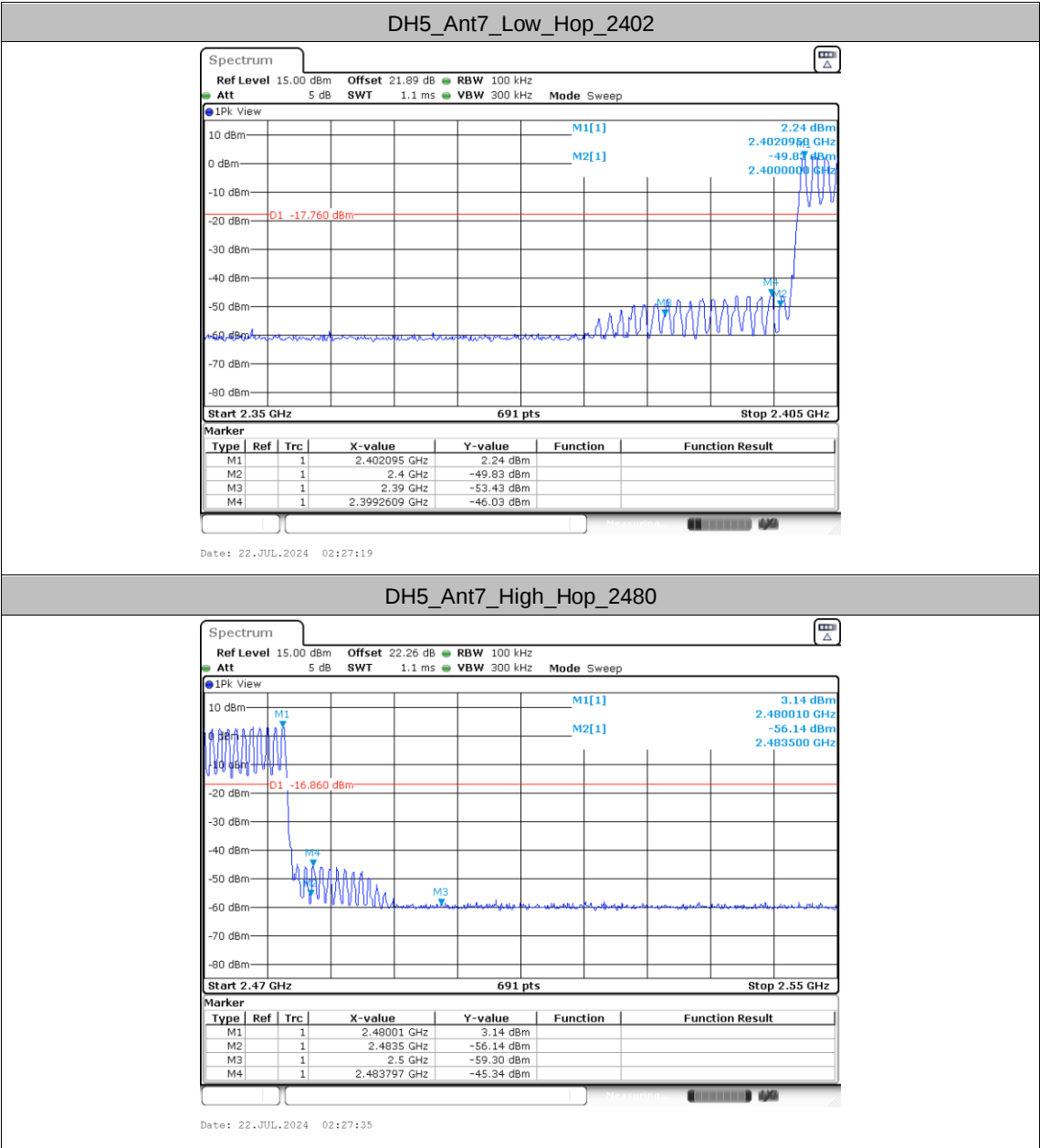
Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant7	Low	2402	3.24	-55.76	≤-16.76	PASS
		High	2480	3.52	-57.01	≤-16.48	PASS
		Low	Hop_2402	2.24	-46.03	≤-17.76	PASS
		High	Hop_2480	3.14	-45.34	≤-16.86	PASS
2DH1	Ant7	Low	2402	0.71	-55.43	≤-19.29	PASS
		High	2480	0.32	-57.68	≤-19.68	PASS
		Low	Hop_2402	0.29	-46.85	≤-19.71	PASS
		High	Hop_2480	0.45	-47.1	≤-19.55	PASS
3DH1	Ant7	Low	2402	0.71	-57.66	≤-19.29	PASS
		High	2480	0.30	-57.64	≤-19.7	PASS
		Low	Hop_2402	0.40	-47.5	≤-19.6	PASS
		High	Hop_2480	0.46	-47.11	≤-19.54	PASS



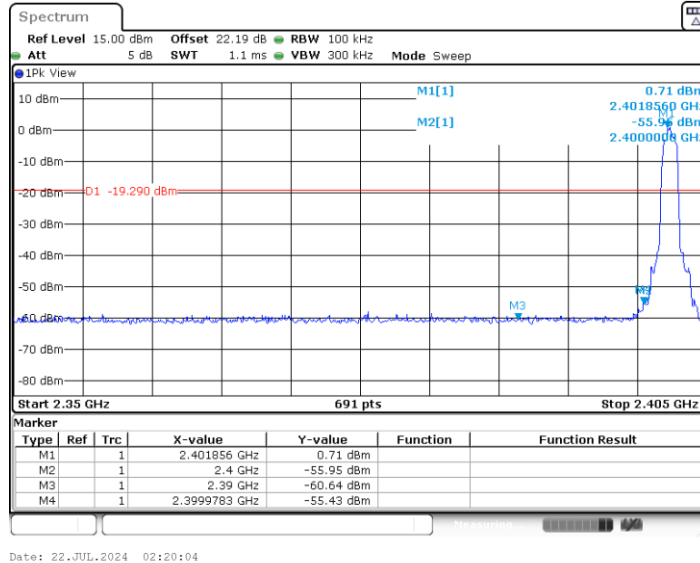
Test Graphs



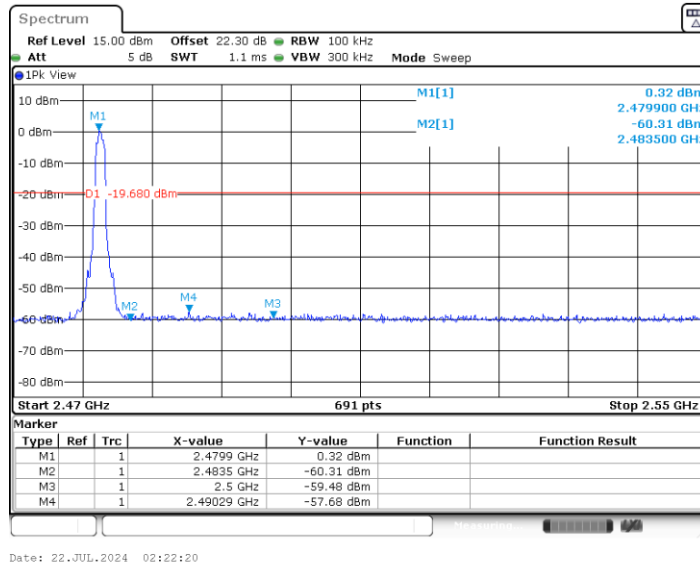




2DH1_Ant7_Low_2402

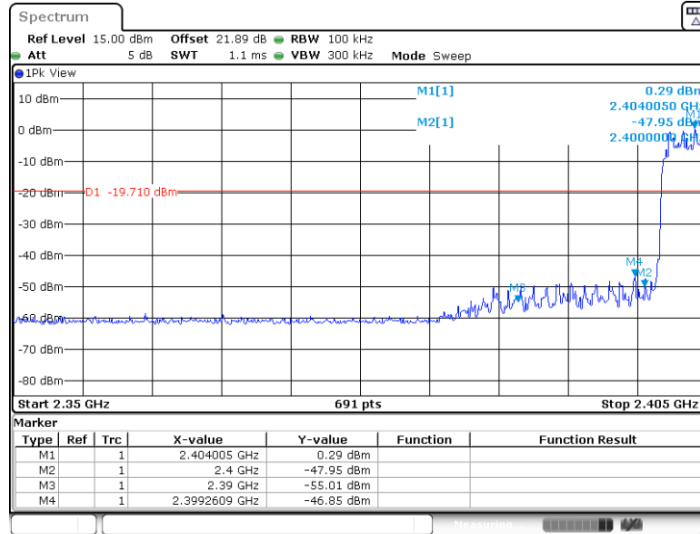


2DH1_Ant7_High_2480

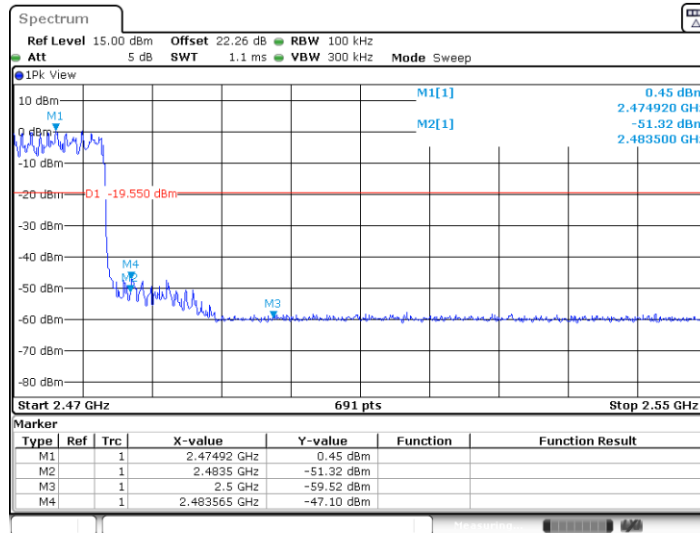




2DH1_Ant7_Low_Hop_2402

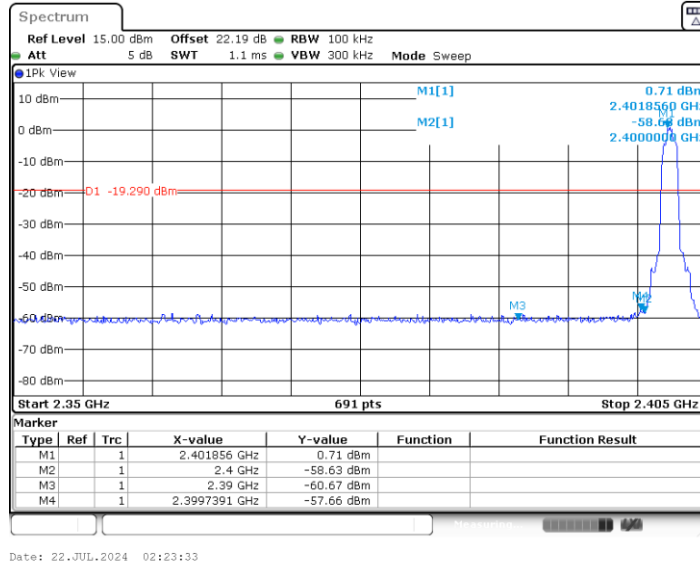


2DH1_Ant7_High_Hop_2480

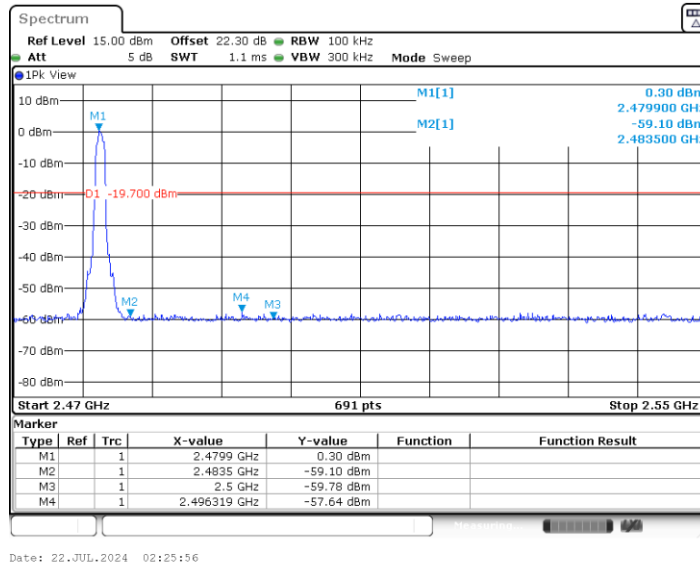




3DH1_Ant7_Low_2402

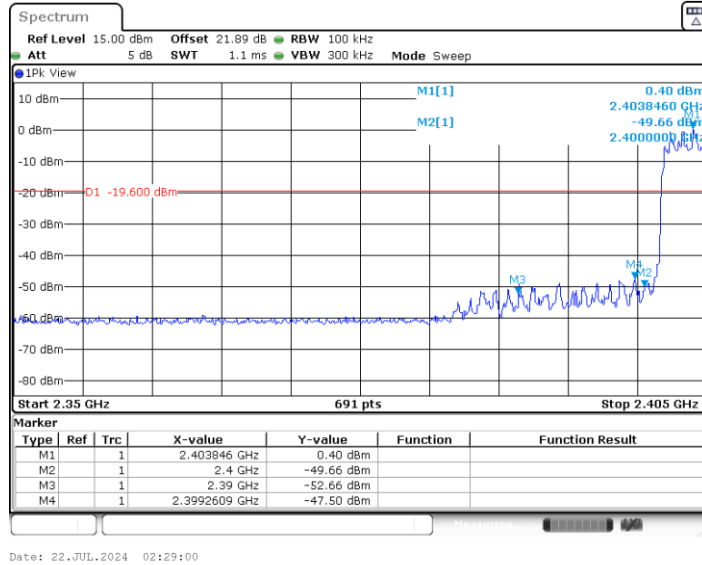


3DH1_Ant7_High_2480

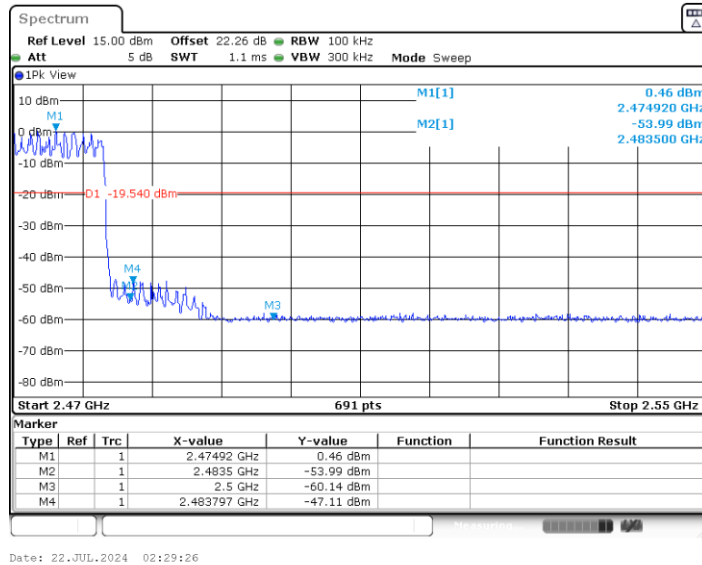




3DH1_Ant7_Low_Hop_2402



3DH1_Ant7_High_Hop_2480





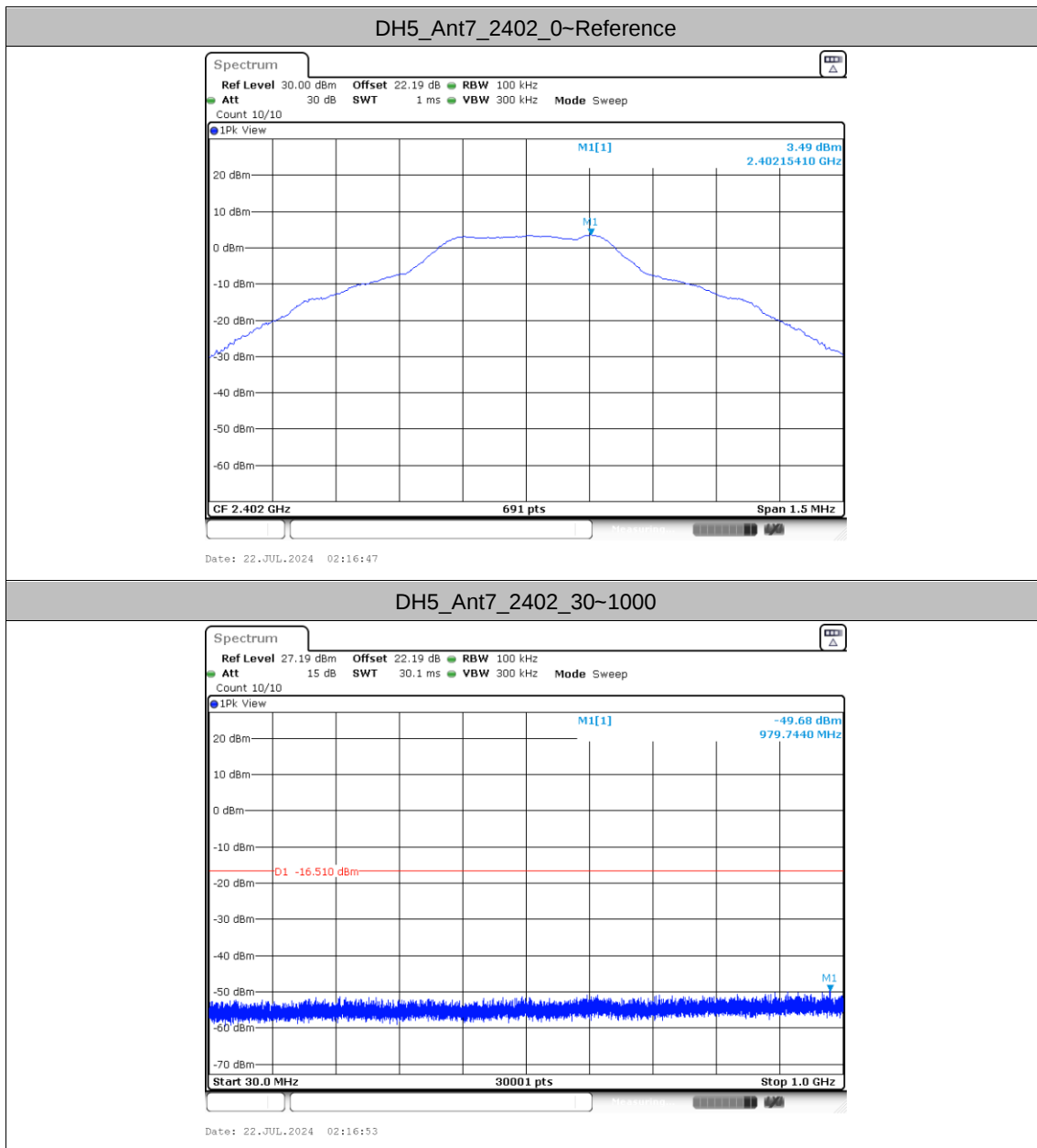
Conducted Spurious Emission

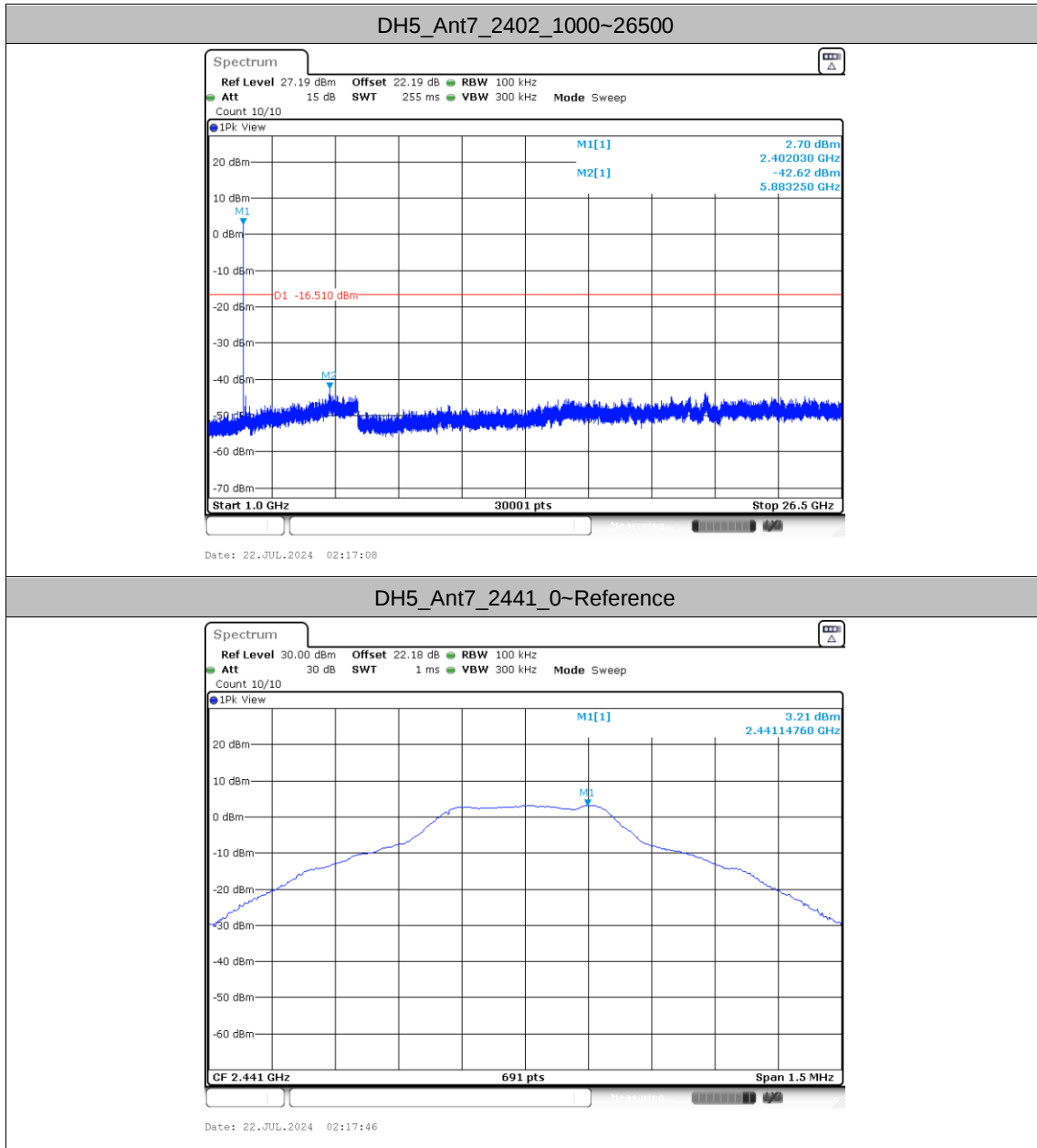
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant7	2402	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-49.68	≤ -16.51	PASS
			1000~26500	3.49	-42.62	≤ -16.51	PASS
		2441	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-49.91	≤ -16.79	PASS
			1000~26500	3.21	-43.35	≤ -16.79	PASS
		2480	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-50.04	≤ -16.32	PASS
			1000~26500	3.68	-42.73	≤ -16.32	PASS
2DH1	Ant7	2402	Reference	0.96	0.96	---	PASS
			30~1000	0.96	-49.86	≤ -19.04	PASS
			1000~26500	0.96	-44	≤ -19.04	PASS
		2441	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-49.08	≤ -18.75	PASS
			1000~26500	1.25	-43.7	≤ -18.75	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-49.42	≤ -19.66	PASS
			1000~26500	0.34	-43.59	≤ -19.66	PASS
3DH1	Ant7	2402	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-49.62	≤ -19.02	PASS
			1000~26500	0.98	-43.61	≤ -19.02	PASS
		2441	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-49.81	≤ -18.76	PASS
			1000~26500	1.24	-43.06	≤ -18.76	PASS
		2480	Reference	0.38	0.38	---	PASS
			30~1000	0.38	-49.47	≤ -19.62	PASS
			1000~26500	0.38	-43.81	≤ -19.62	PASS



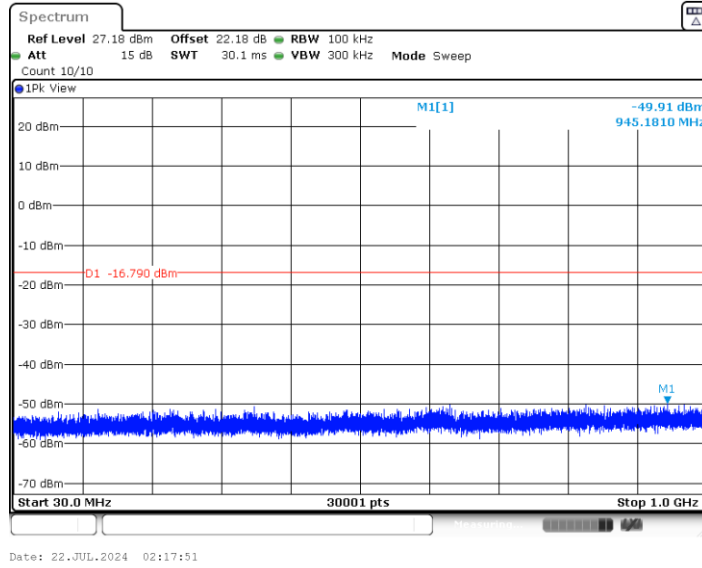
Test Graphs



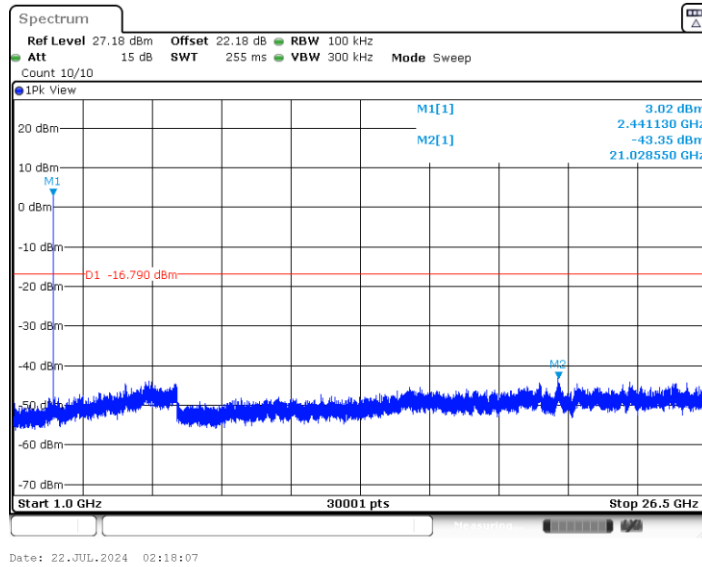


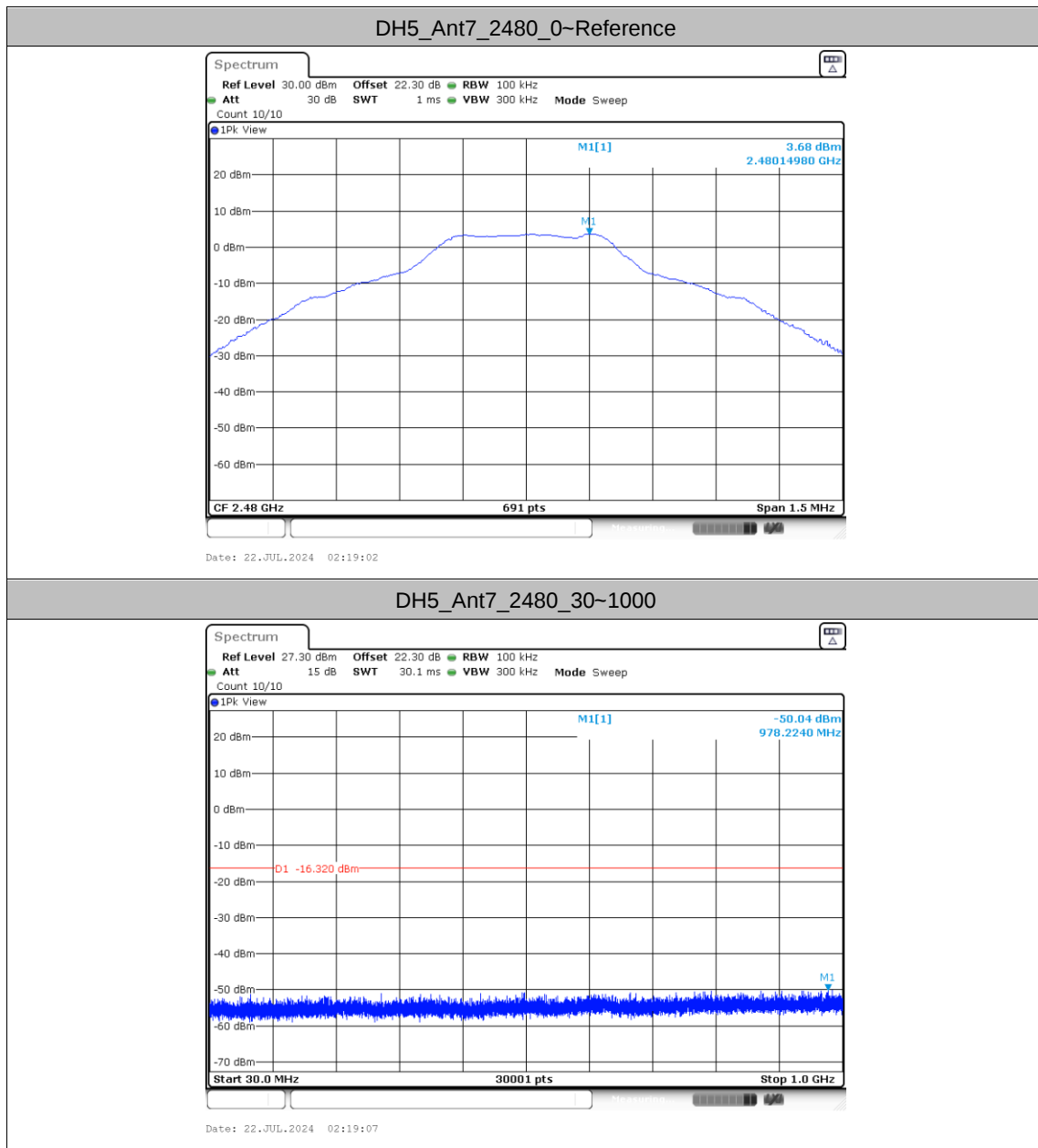


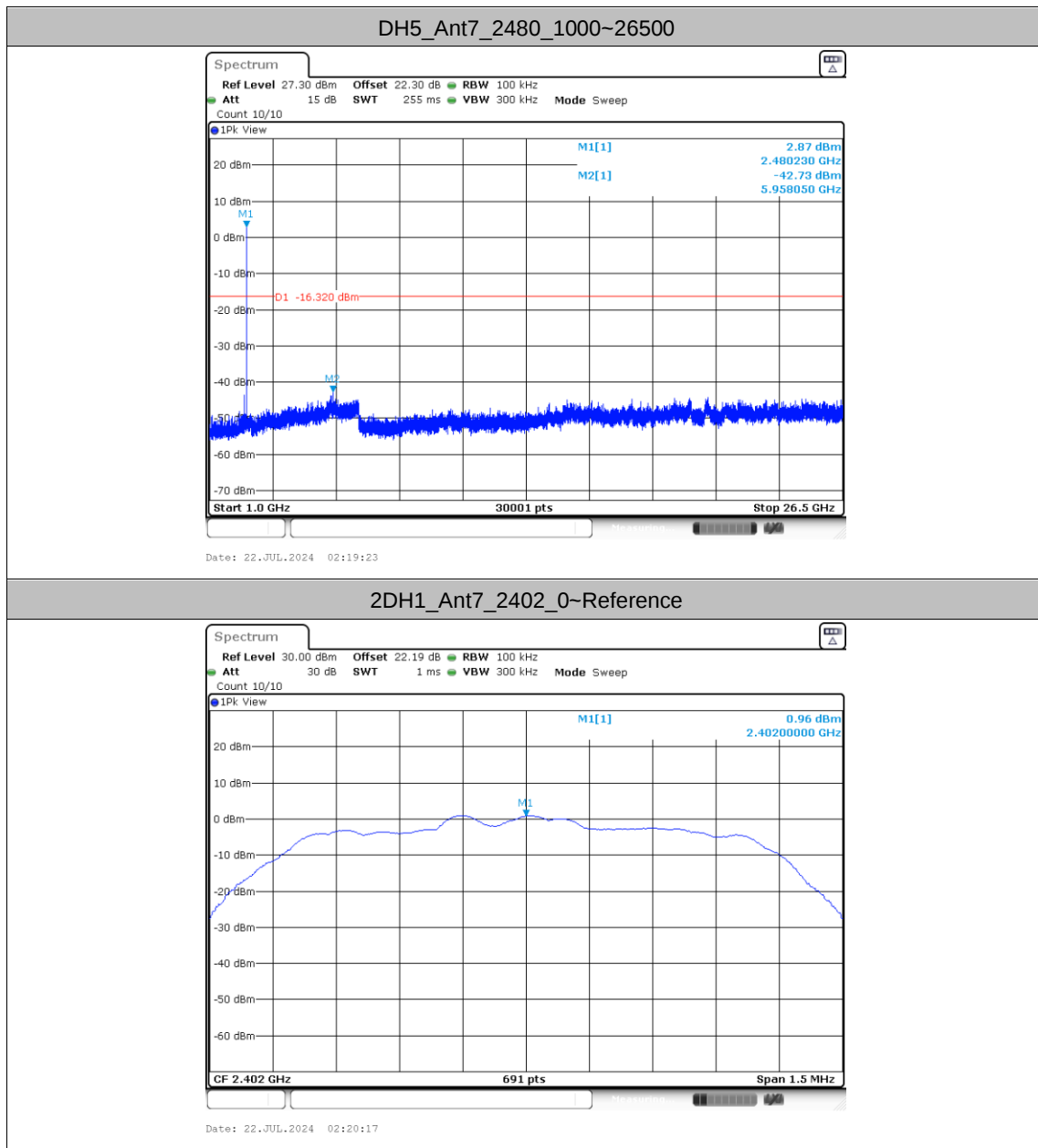
DH5_Ant7_2441_30~1000

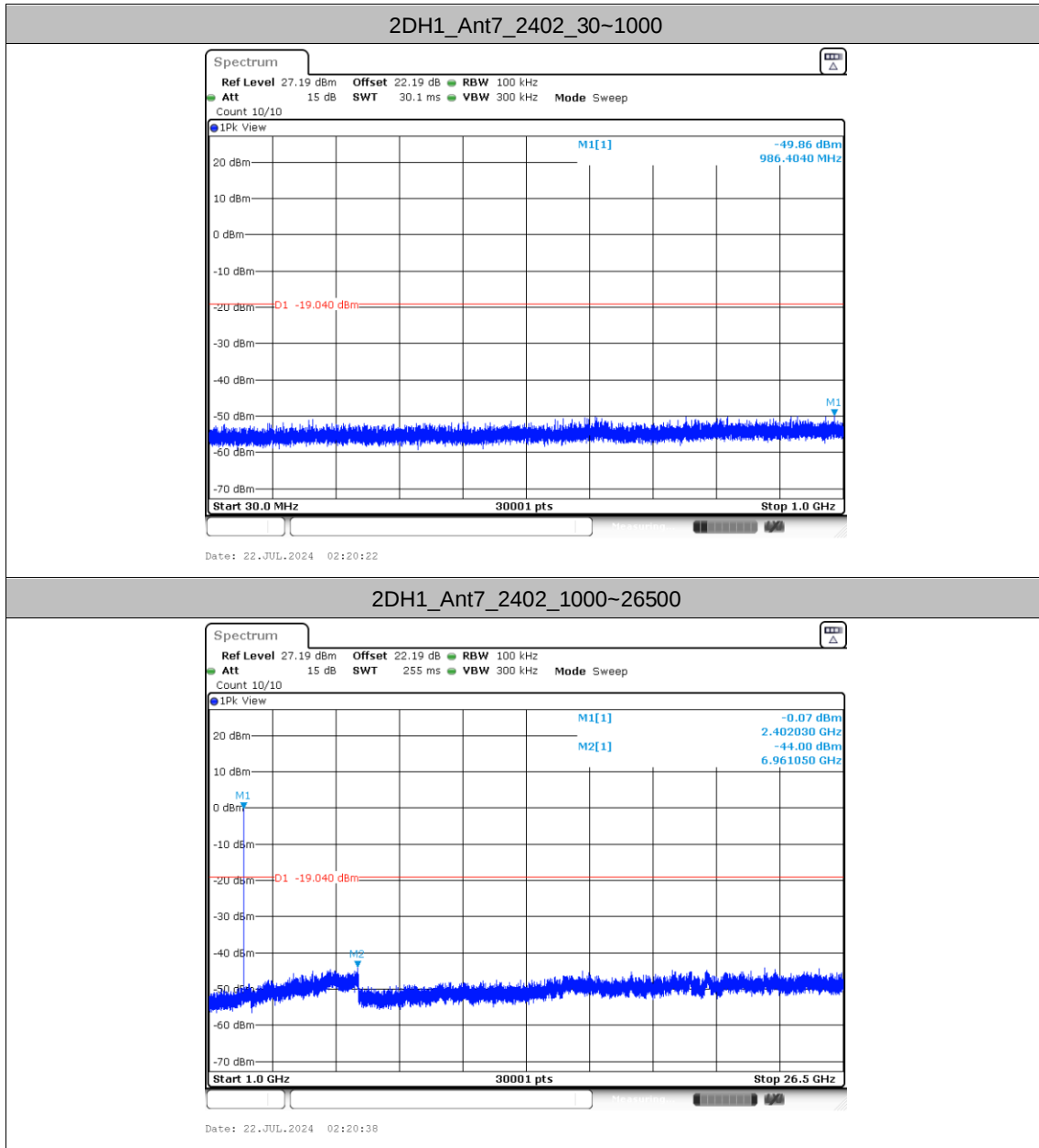


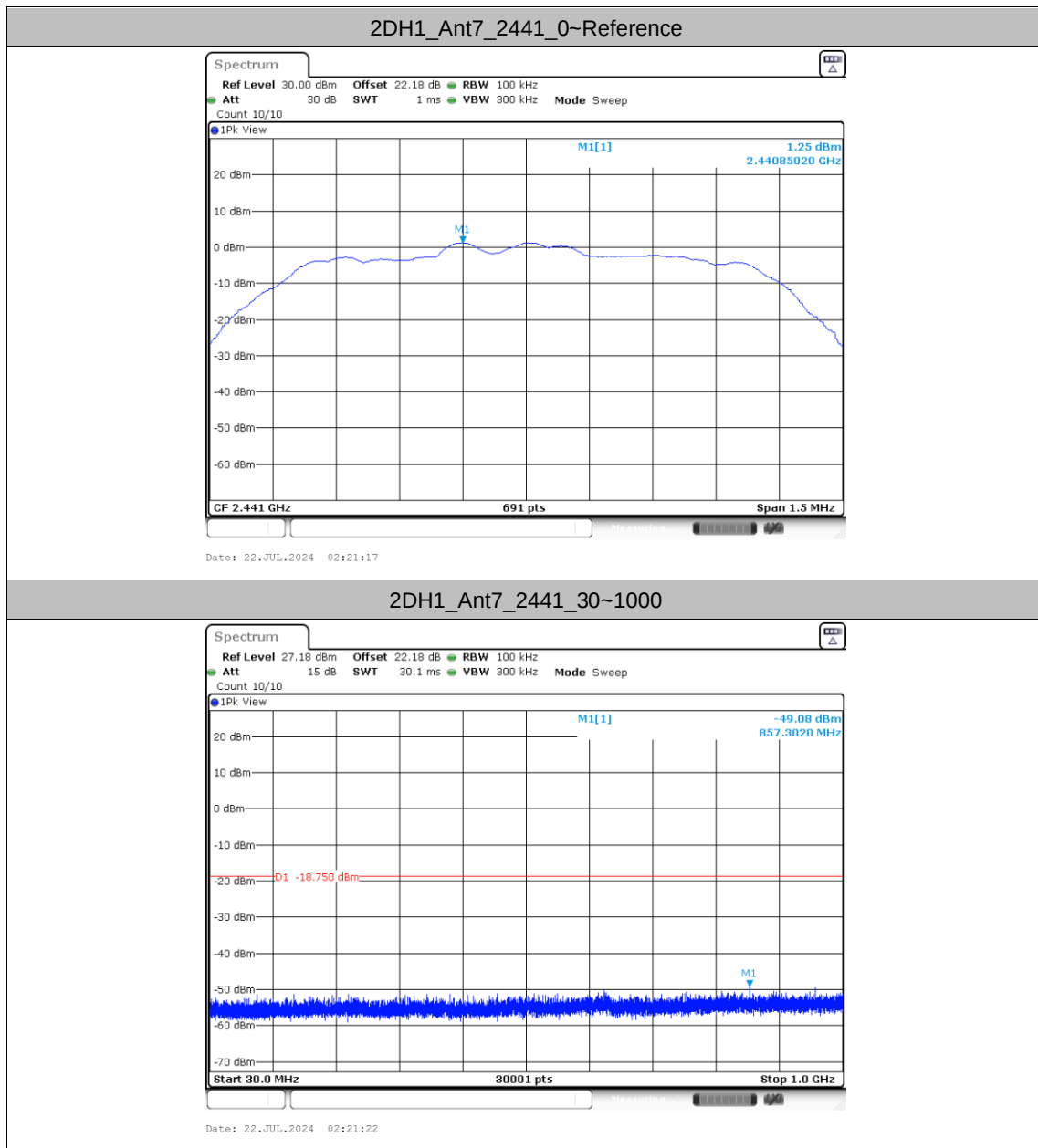
DH5_Ant7_2441_1000~26500





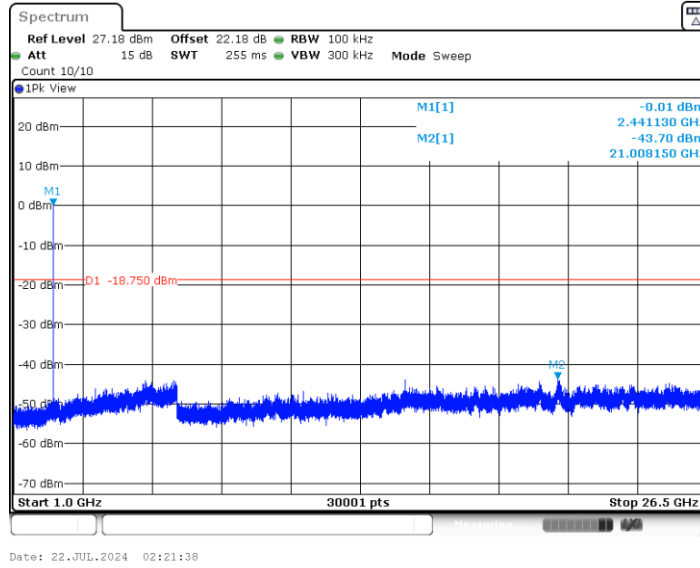




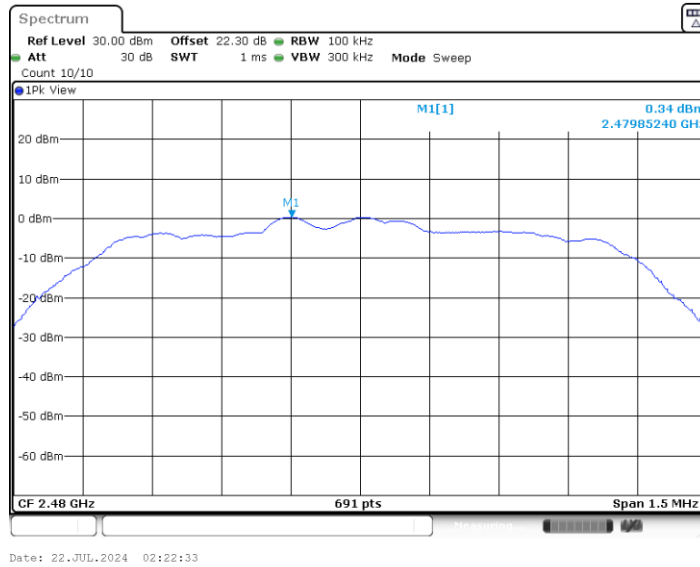


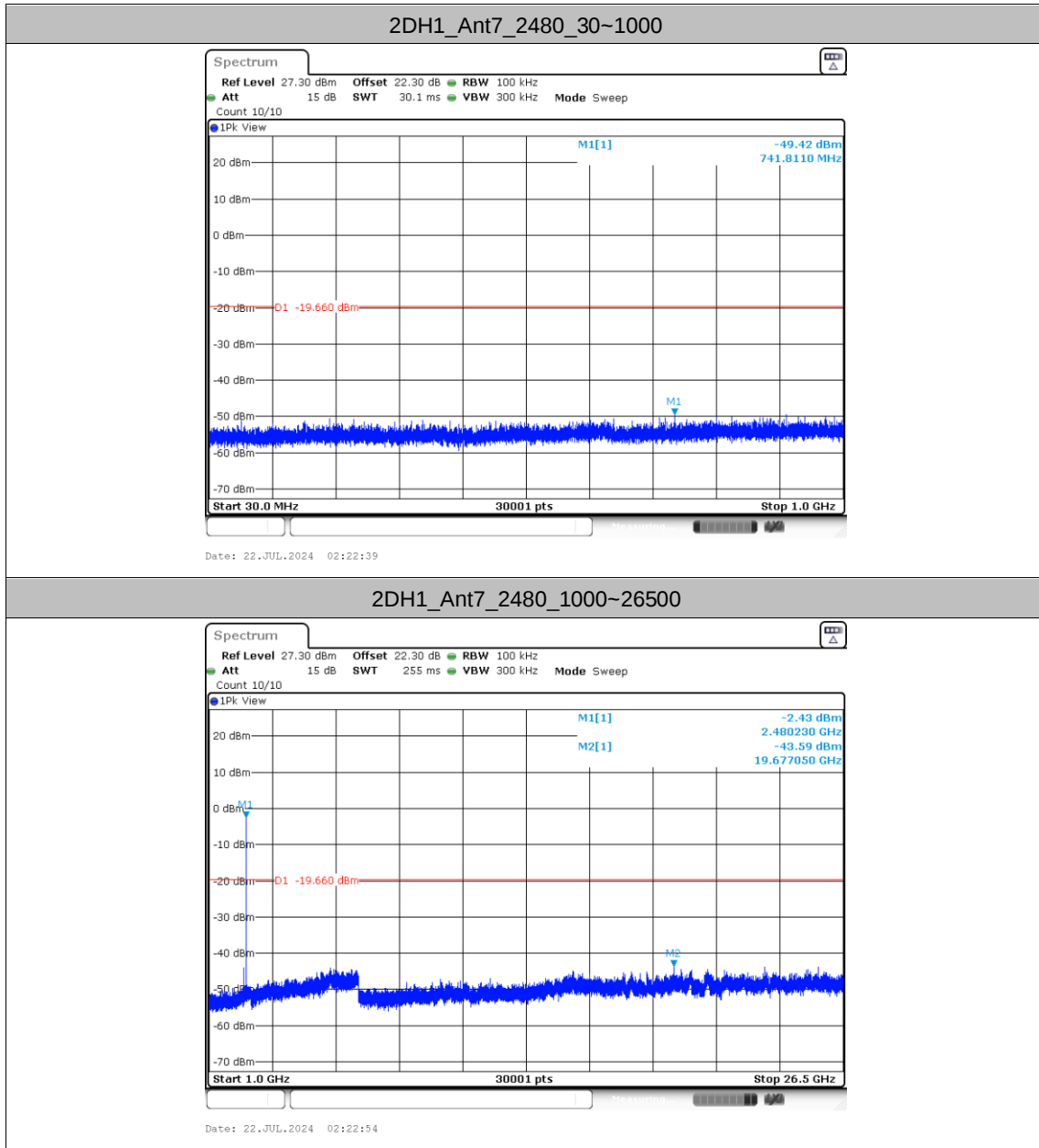


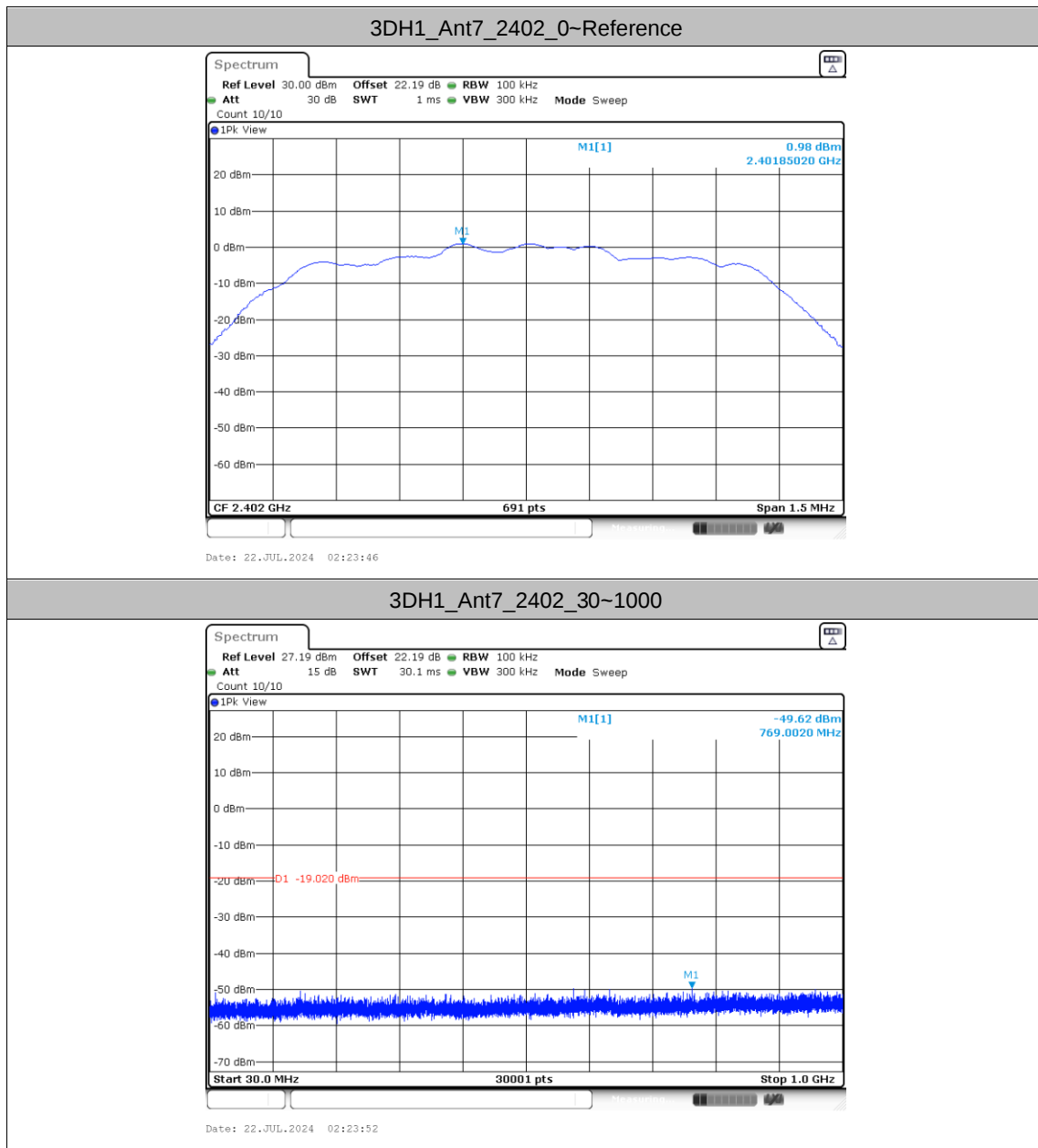
2DH1_Ant7_2441_1000~26500

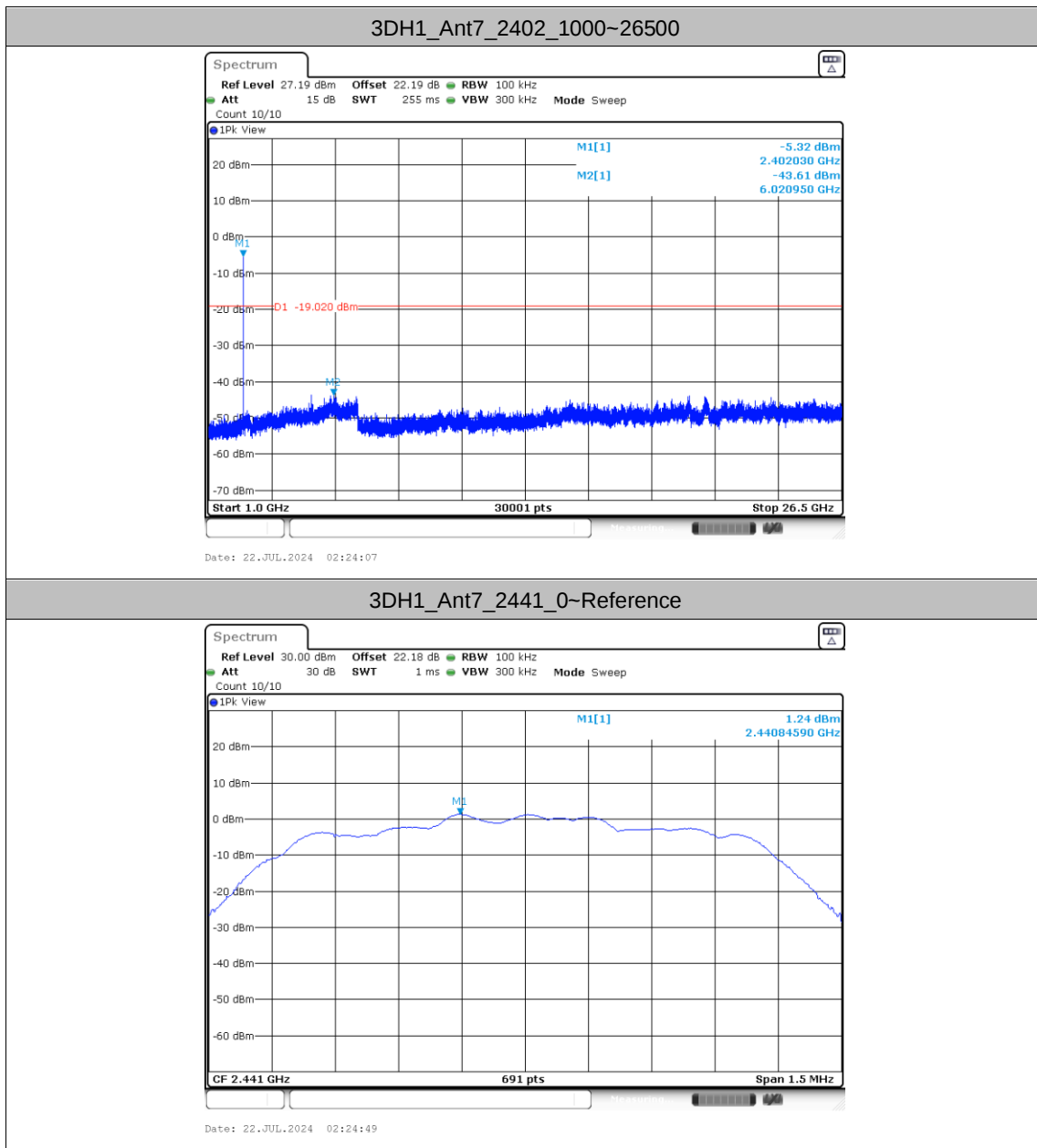


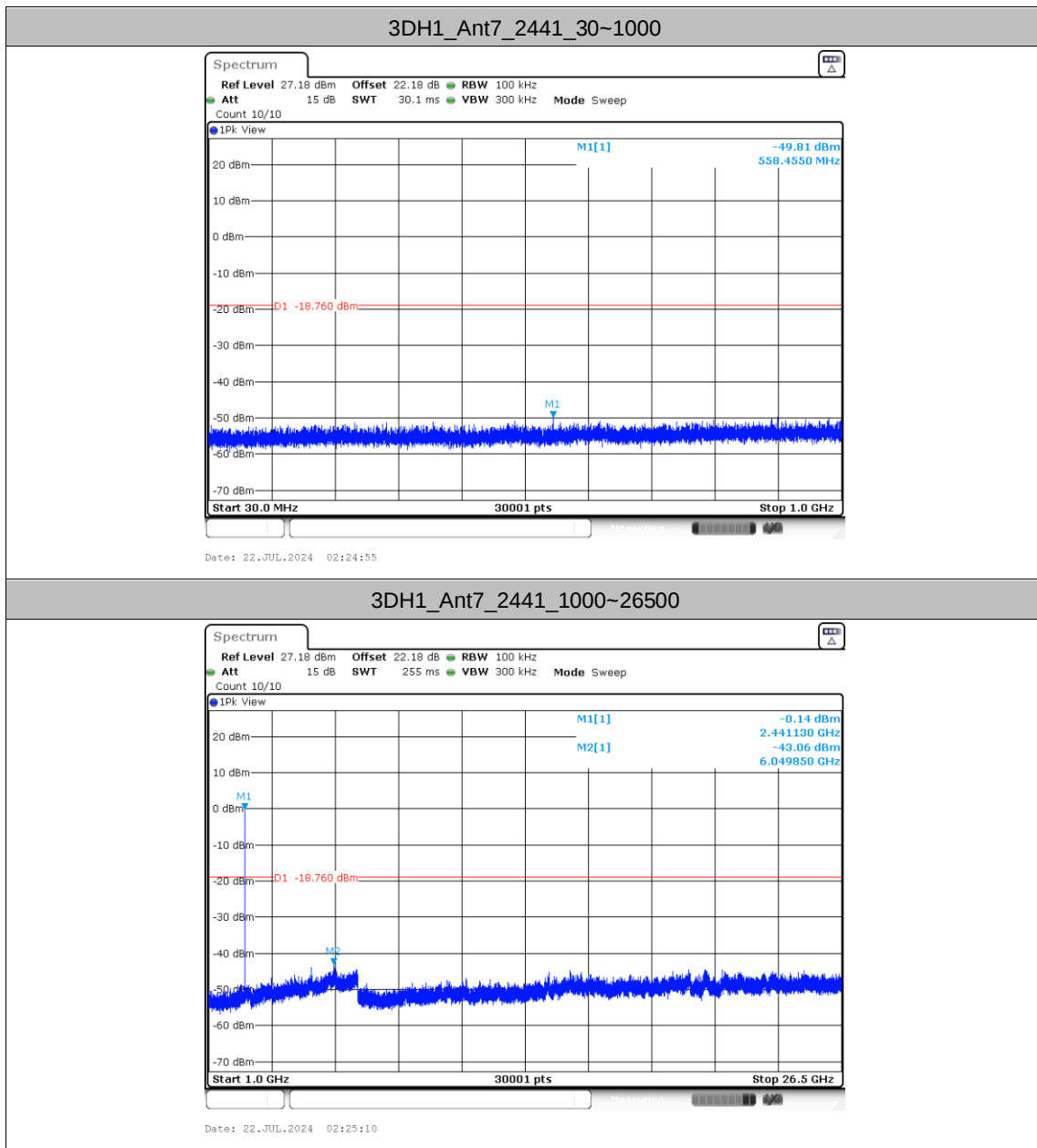
2DH1_Ant7_2480_0~Reference



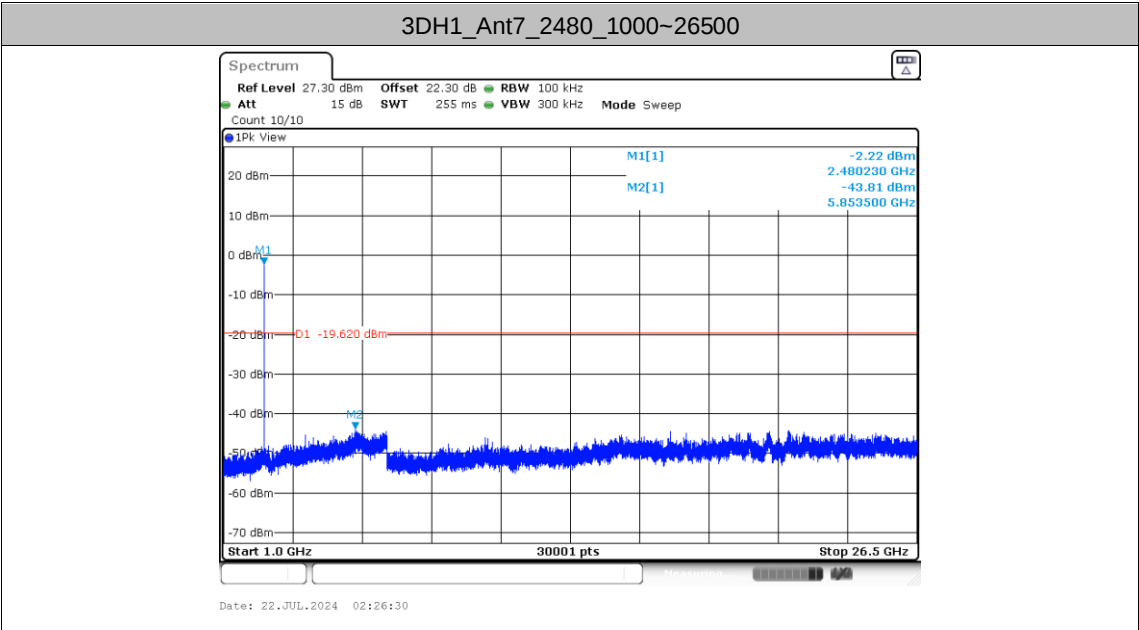






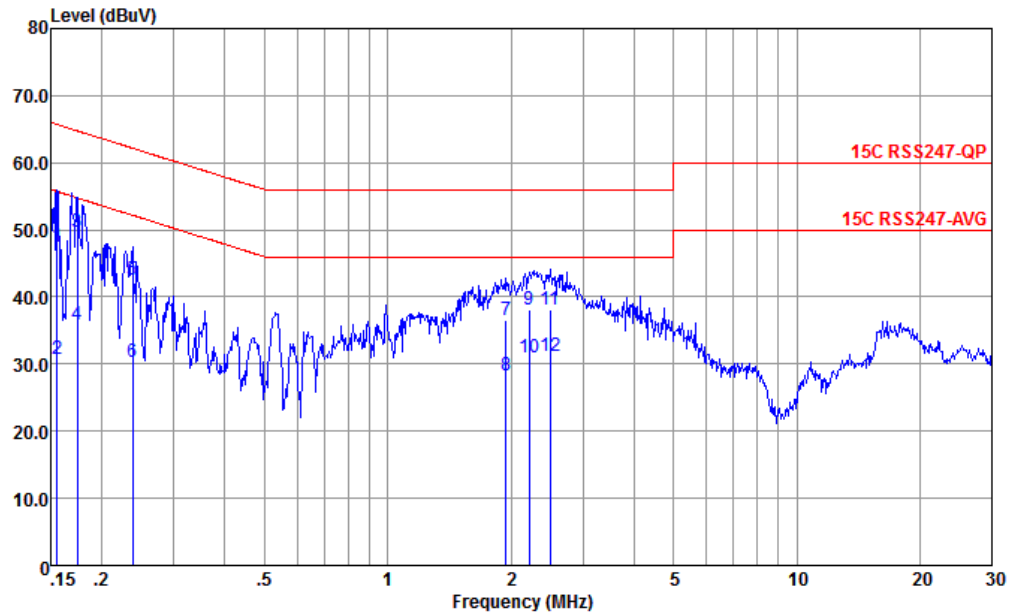






Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

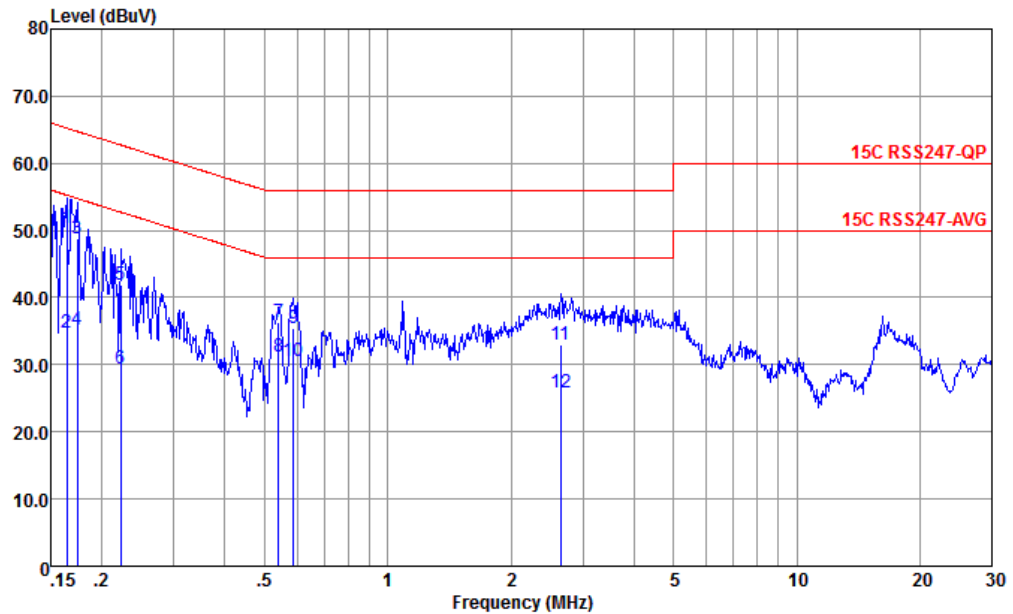


Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-L 2024 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.156	47.43	-18.26	65.69	36.89	0.12	10.42	QP
2	0.156	30.73	-24.96	55.69	20.19	0.12	10.42	Average
3	0.174	49.71	-15.06	64.77	39.20	0.10	10.41	QP
4	0.174	35.81	-18.96	54.77	25.30	0.10	10.41	Average
5	0.238	42.66	-19.51	62.17	32.20	0.08	10.38	QP
6	0.238	30.36	-21.81	52.17	19.90	0.08	10.38	Average
7	1.949	36.46	-19.54	56.00	26.60	-0.22	10.08	QP
8	1.949	28.36	-17.64	46.00	18.50	-0.22	10.08	Average
9	2.213	38.07	-17.93	56.00	28.19	-0.20	10.08	QP
10	2.213	31.07	-14.93	46.00	21.19	-0.20	10.08	Average
11	2.500	38.09	-17.91	56.00	28.21	-0.19	10.07	QP
12 *	2.500	31.19	-14.81	46.00	21.31	-0.19	10.07	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 2024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 *	0.164	50.44	-14.81	65.25	39.90	0.12	10.42	QP
2	0.164	34.74	-20.51	55.25	24.20	0.12	10.42	Average
3	0.174	48.74	-16.03	64.77	38.20	0.13	10.41	QP
4	0.174	35.14	-19.63	54.77	24.60	0.13	10.41	Average
5	0.222	41.96	-20.78	62.74	31.51	0.06	10.39	QP
6	0.222	29.36	-23.38	52.74	18.91	0.06	10.39	Average
7	0.541	36.25	-19.75	56.00	26.20	-0.15	10.20	QP
8	0.541	31.15	-14.85	46.00	21.10	-0.15	10.20	Average
9	0.589	35.52	-20.48	56.00	25.50	-0.16	10.18	QP
10	0.589	30.62	-15.38	46.00	20.60	-0.16	10.18	Average
11	2.650	33.07	-22.93	56.00	23.20	-0.20	10.07	QP
12	2.650	25.77	-20.23	46.00	15.90	-0.20	10.07	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41 ~ 42%
		Temperature :	22 ~ 23°C

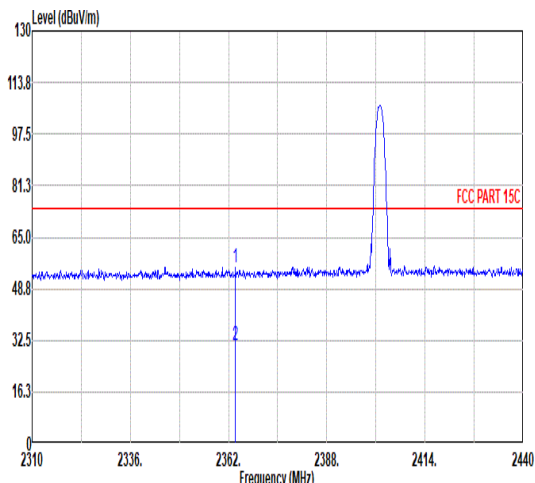
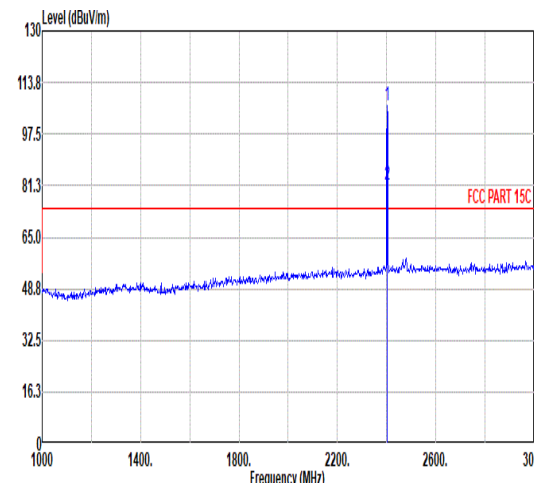
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	7	Bluetooth BR_GFSK	0	2402	DH5	-	-
Mode 2	2400-2483.5	7	Bluetooth BR_GFSK	39	2441	DH5	-	-
Mode 3	2400-2483.5	7	Bluetooth BR_GFSK	78	2480	DH5	-	-

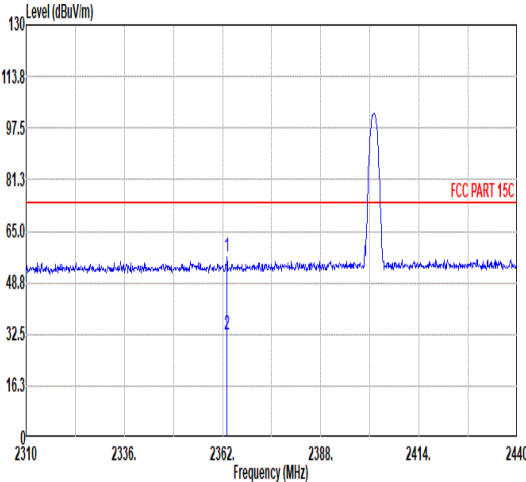
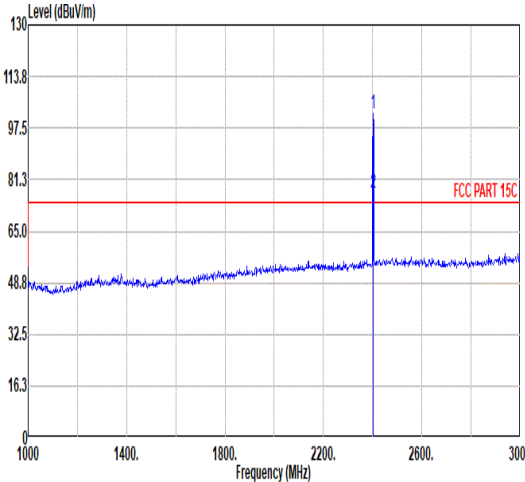
Summary of each worse mode

Mode	Modulation	C h.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	0	2363.17	56.93	74.00	-17.07	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	0	4804.00	42.57	74.00	-31.43	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	44.97	74.00	-29.03	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2484.42	56.39	74.00	-17.61	V	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	44.84	74.00	-29.16	H	PEAK	Pass	Harmonic



		1										
Mode	Band Edge											
	2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz											
ANT	7											
Pol.	Horizontal						Fundamental					
Peak												
	Limit Over Read Ant Cable Preamp Aux APos TPos						Limit Over Read Ant Cable Preamp Aux APos TPos					
	Freq Level Line Limit Level Factor Loss Factor Factor cm deg						Freq Level Line Limit Level Factor Loss Factor Factor cm deg					
	MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg						MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg					
1	2363.82	55.55	74.00	-18.45	43.01	32.17	6.56	32.19	6.00	134	293	PEAK
2	2363.82	30.76	54.00	-23.24	18.22	32.17	6.56	32.19	6.00	134	293	AVERAGE
1	2402.00	106.41	-----	-----	93.38	32.59	6.62	32.18	6.00	134	293	PEAK
2	2402.00	81.62	-----	-----	68.59	32.59	6.62	32.18	6.00	134	293	AVERAGE

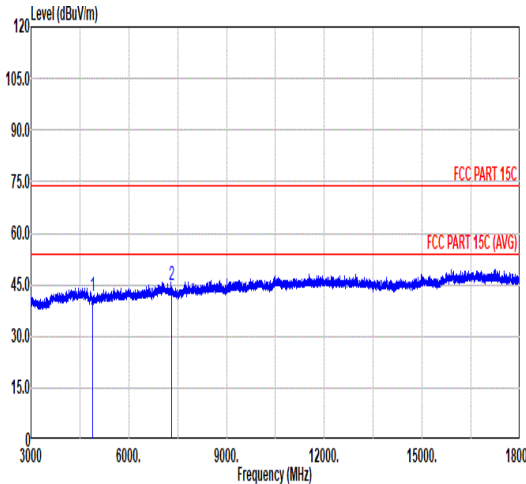
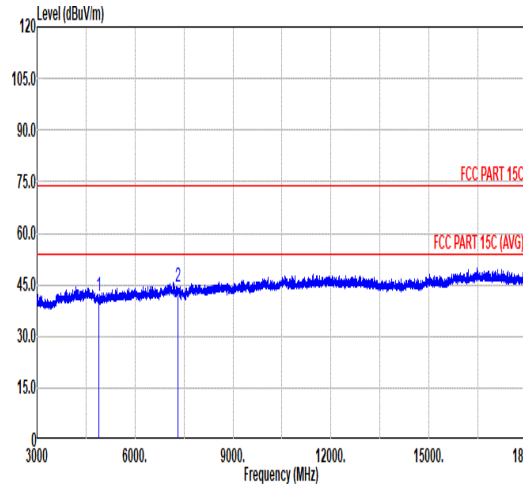


		1																																																																				
Mode		Band Edge																																																																				
		2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz																																																																				
ANT		7																																																																				
Pol.		Vertical																																																																				
Peak																																																																						
		<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2363.17</td><td>56.93</td><td>74.00</td><td>-17.07</td><td>44.40</td><td>32.16</td><td>6.56</td><td>32.19</td><td>6.00</td><td>302</td><td>18 PEAK</td></tr><tr><td>2</td><td>2363.17</td><td>32.14</td><td>54.00</td><td>-21.86</td><td>19.61</td><td>32.16</td><td>6.56</td><td>32.19</td><td>6.00</td><td>302</td><td>18 AVERAGE</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2363.17	56.93	74.00	-17.07	44.40	32.16	6.56	32.19	6.00	302	18 PEAK	2	2363.17	32.14	54.00	-21.86	19.61	32.16	6.56	32.19	6.00	302	18 AVERAGE
			Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																											
		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																										
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																											
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2	2363.17	32.14	54.00	-21.86	19.61	32.16	6.56	32.19	6.00	302	18 AVERAGE																																																											
		Fundamental																																																																				
																																																																						
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1	2402.00	101.96	-----	-----	88.93	32.59	6.62	32.18	6.00	302	18 PEAK																																																											
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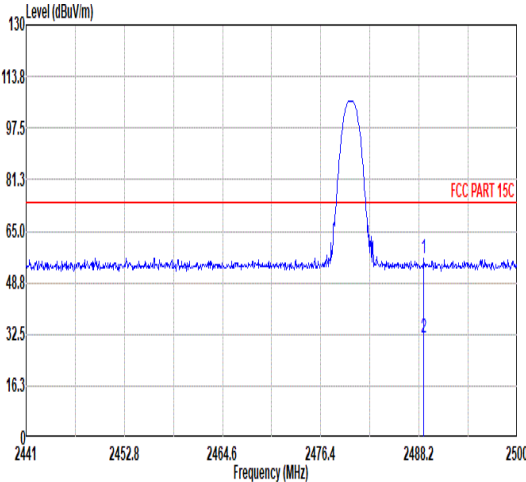
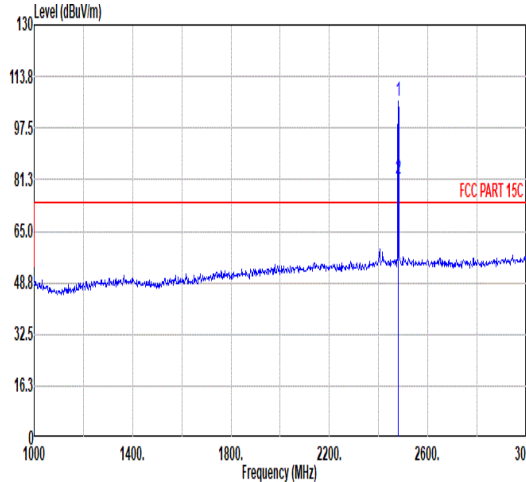


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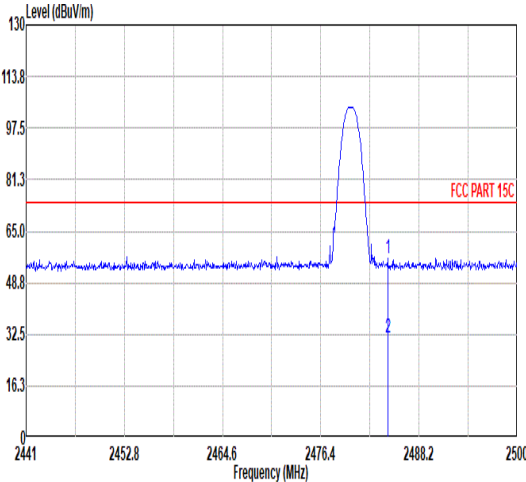
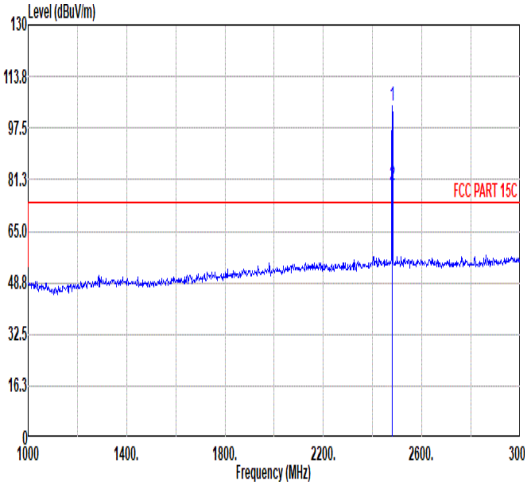


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1	4882.00	41.47	74.00	-32.53	59.02	34.14	9.53	61.22	0.00	---	PEAK																																																									
2	7323.00	44.42	74.00	-29.58	57.78	35.70	11.69	60.75	0.00	---	PEAK																																																									



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1	2480.00	106.18	-----	-----	93.10	32.58	6.73	32.23	6.00	106 360 PEAK																																																							
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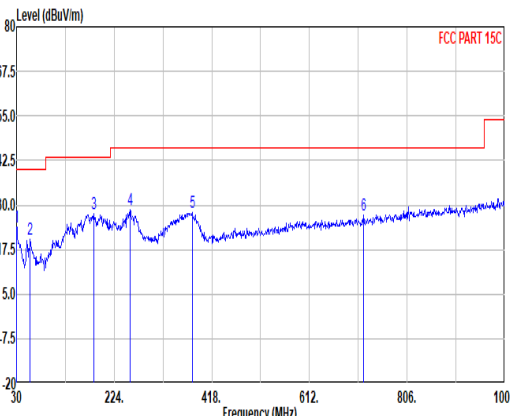


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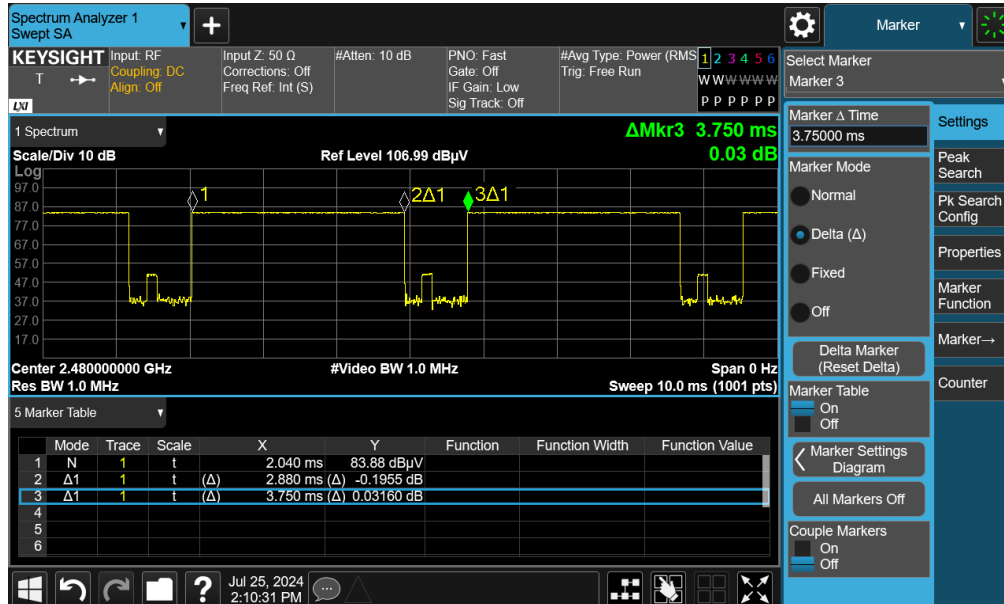
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	18G-25G	
	2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz	
ANT	7	
Pol.	Horizontal	Vertical
Peak Avg	The plot shows the signal level in dBuV/m versus frequency in MHz for horizontal polarization. The y-axis ranges from 0 to 130 dBuV/m with major ticks every 16.3 dB. The x-axis ranges from 18000 to 25000 MHz with major ticks every 400 MHz. A blue line represents the measured signal, which is relatively flat around 40 dBuV/m. Three horizontal red lines indicate FCC Part 15C limits: -50dB at 81.3 dBuV/m, FCC PART 15C (AVG) at 65.0 dBuV/m, and -50dB at 48.8 dBuV/m.	The plot shows the signal level in dBuV/m versus frequency in MHz for vertical polarization. The y-axis ranges from 0 to 130 dBuV/m with major ticks every 16.3 dB. The x-axis ranges from 18000 to 25000 MHz with major ticks every 400 MHz. A blue line represents the measured signal, which is relatively flat around 40 dBuV/m. Three horizontal red lines indicate FCC Part 15C limits: -50dB at 81.3 dBuV/m, FCC PART 15C (AVG) at 65.0 dBuV/m, and -50dB at 48.8 dBuV/m.



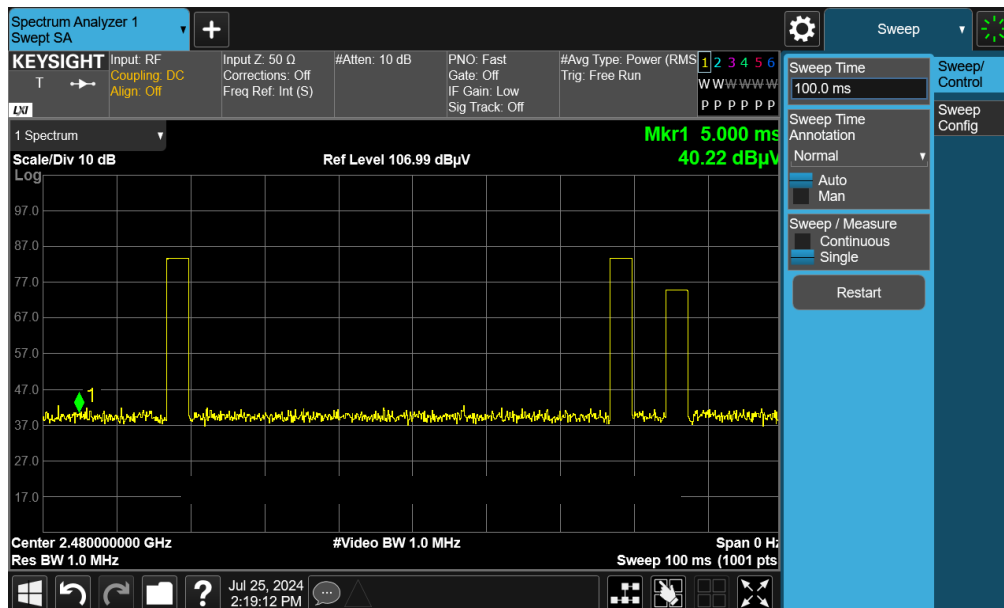
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot



DH5 on time (Count Pulses) Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.