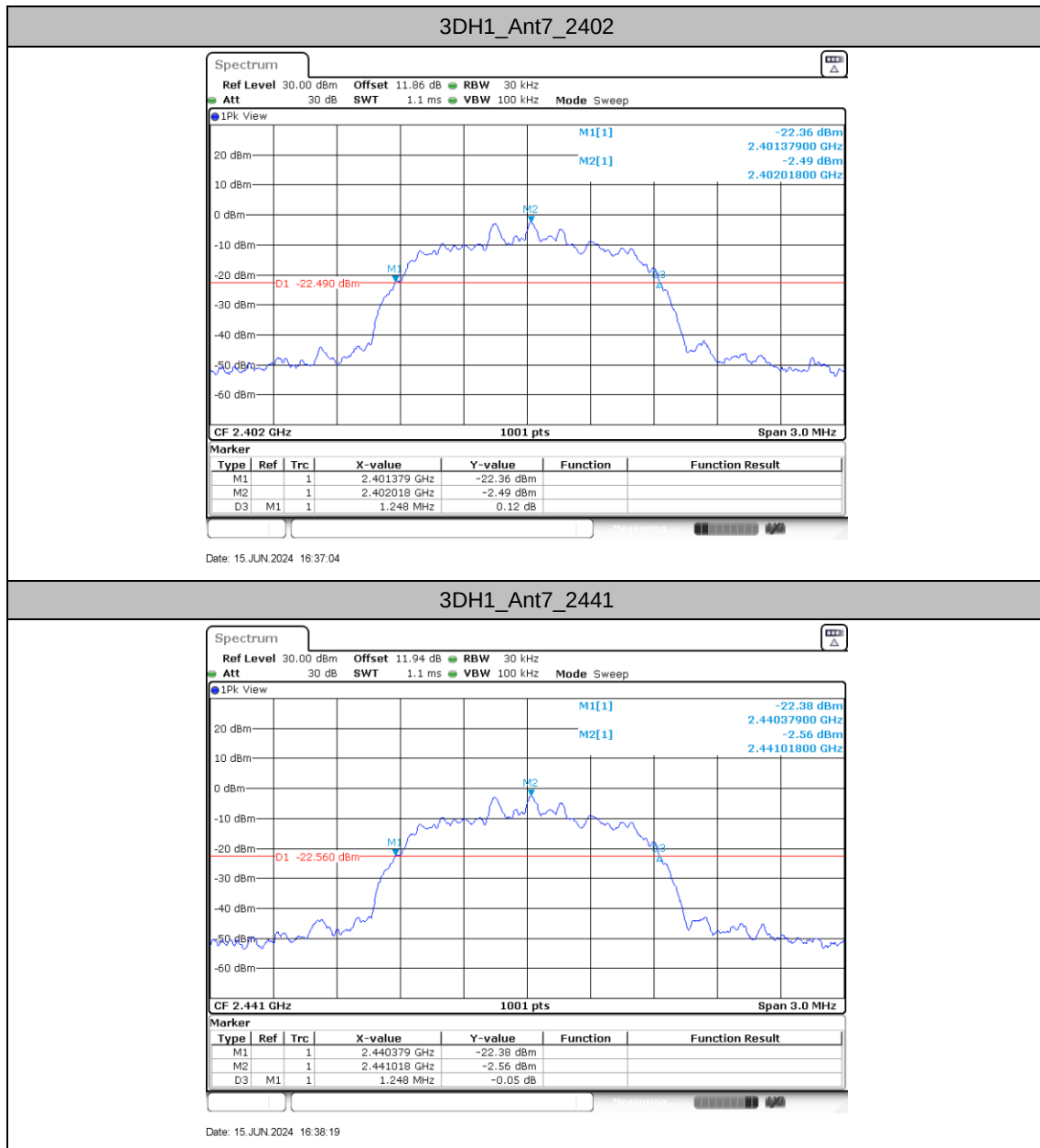
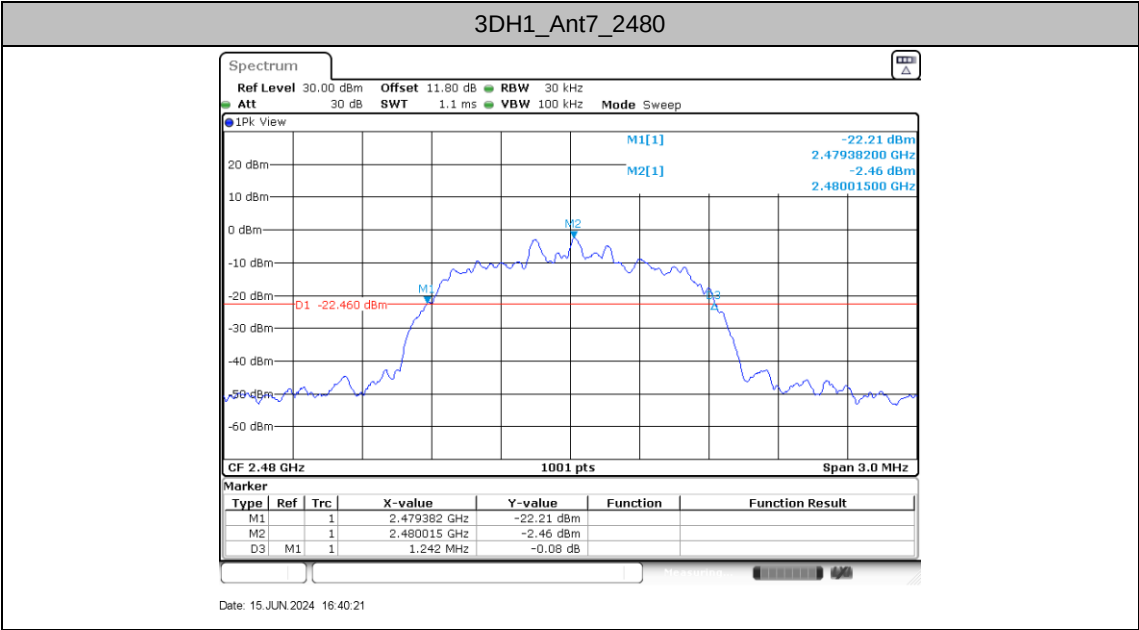








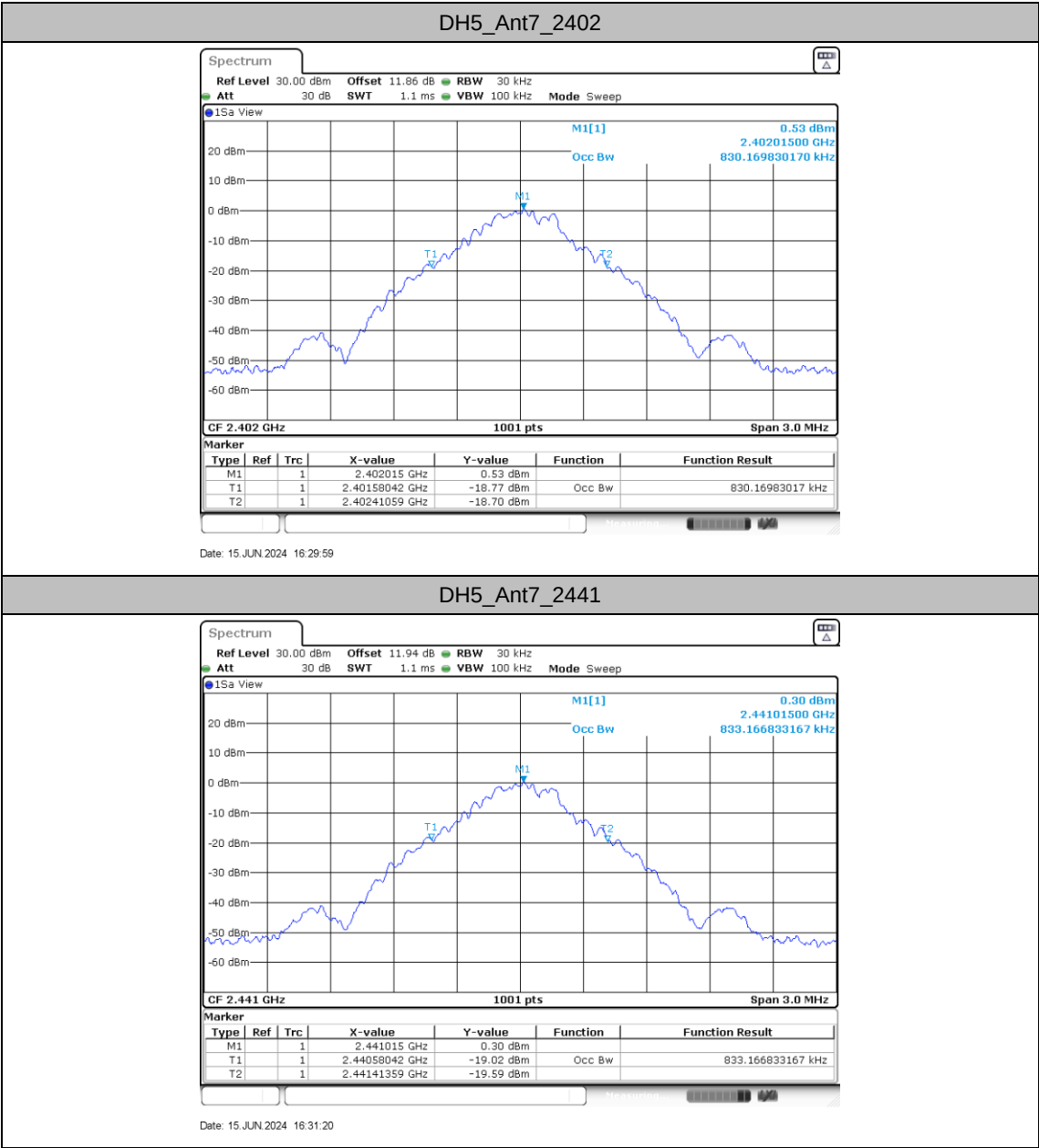
Occupied Channel Bandwidth

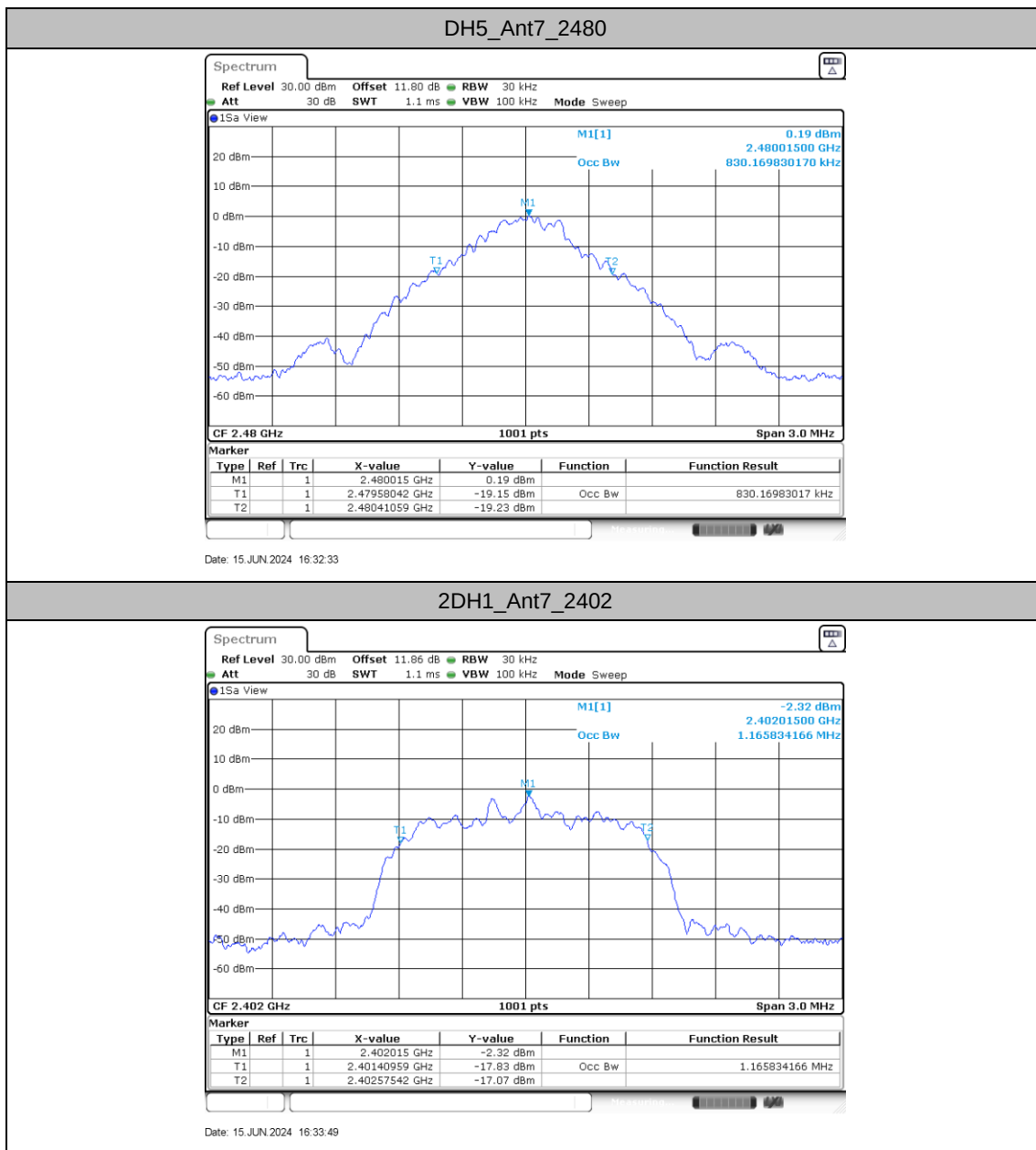
Test Result

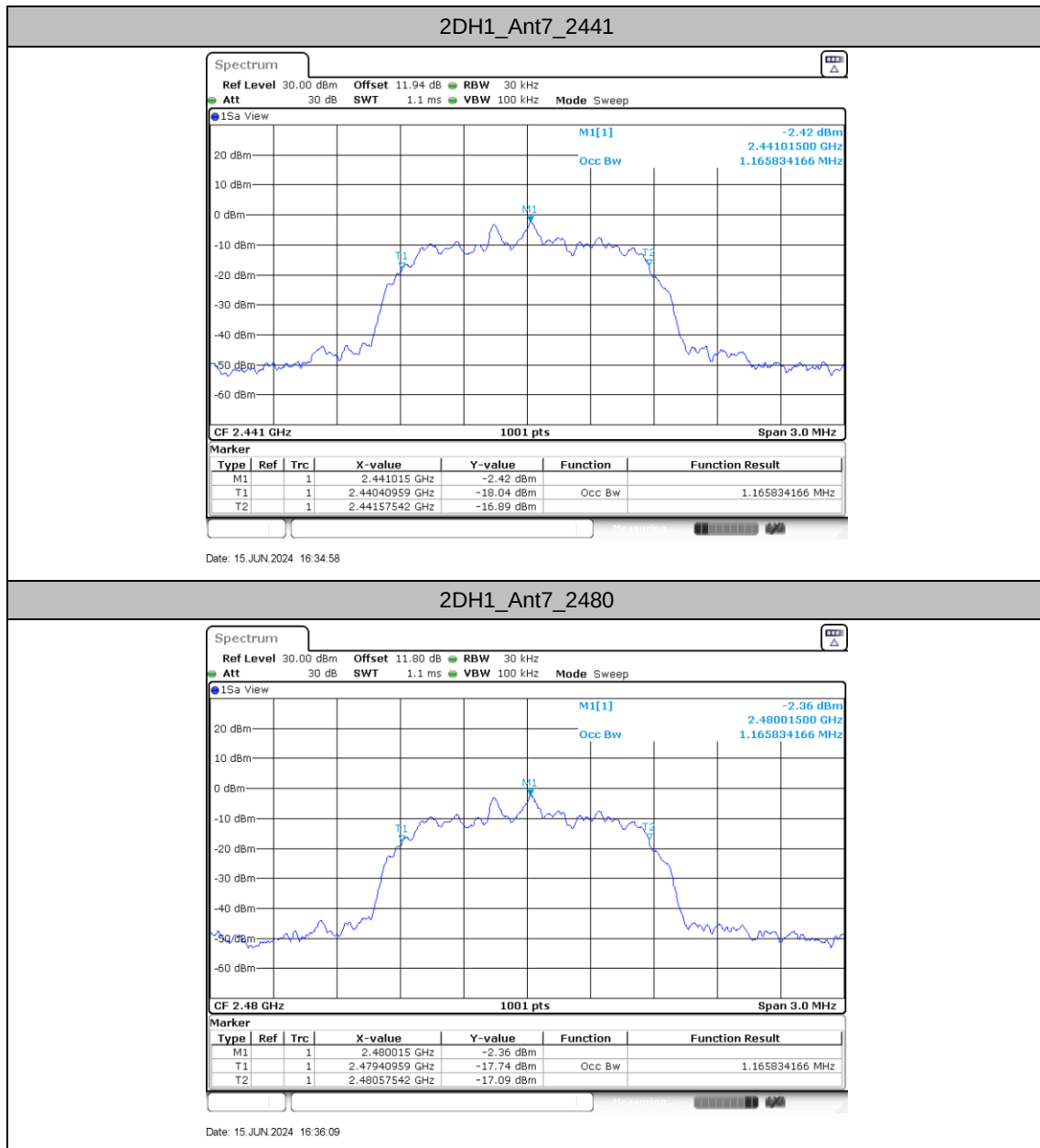
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant7	2402	0.83	2401.5804	2402.4106
		2441	0.833	2440.5804	2441.4136
		2480	0.83	2479.5804	2480.4106
2DH1	Ant7	2402	1.166	2401.4096	2402.5754
		2441	1.166	2440.4096	2441.5754
		2480	1.166	2479.4096	2480.5754
3DH1	Ant7	2402	1.151	2401.4336	2402.5844
		2441	1.151	2440.4336	2441.5844
		2480	1.151	2479.4336	2480.5844

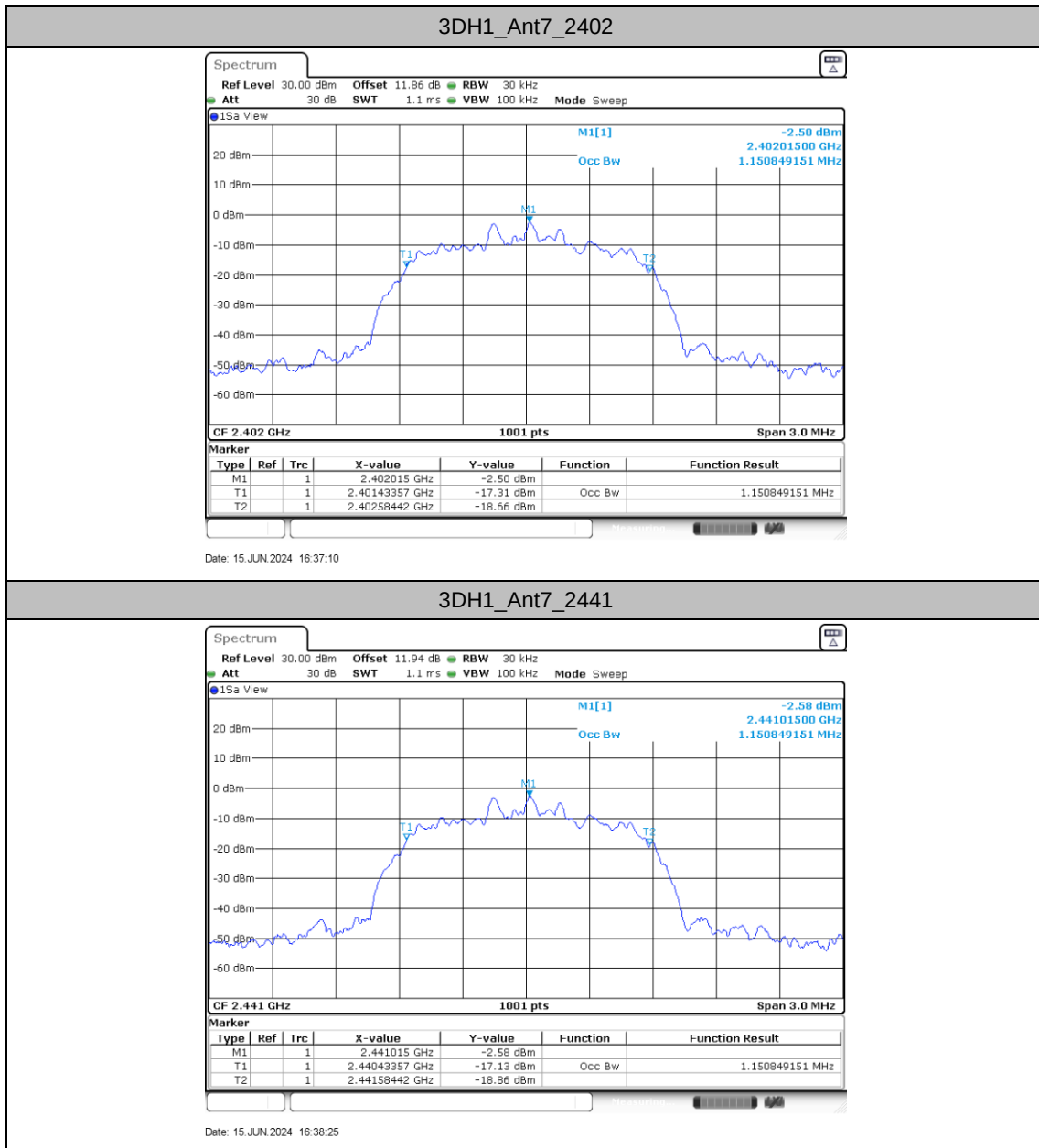


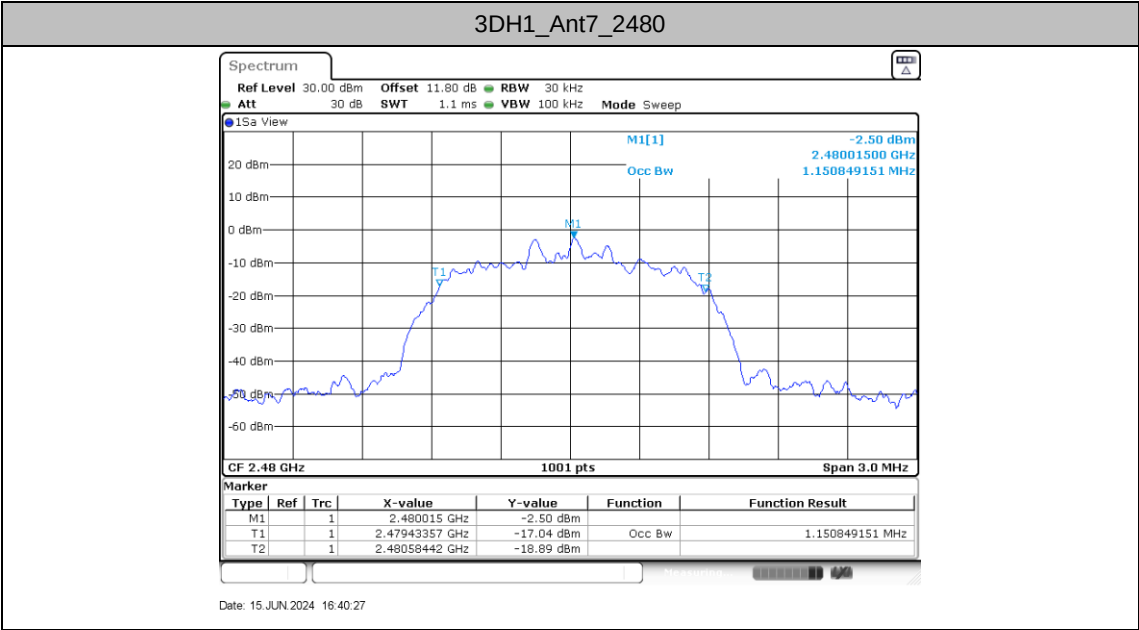
Test Graphs













Maximum conducted output power

Test Result Peak

TestMode	Antenna	CH.	Peak Power (dBm)	Power Limit (dBm)	Pass/Fail	Power Setting
DH5	Ant7	0	3.75	20.97	Pass	8
		39	3.69	20.97	Pass	8
		78	3.79	20.97	Pass	8
2DH5	Ant7	0	2.86	20.97	Pass	8
		39	2.84	20.97	Pass	8
		78	2.98	20.97	Pass	8
3DH5	Ant7	0	3.36	20.97	Pass	8
		39	3.38	20.97	Pass	8
		78	3.56	20.97	Pass	8



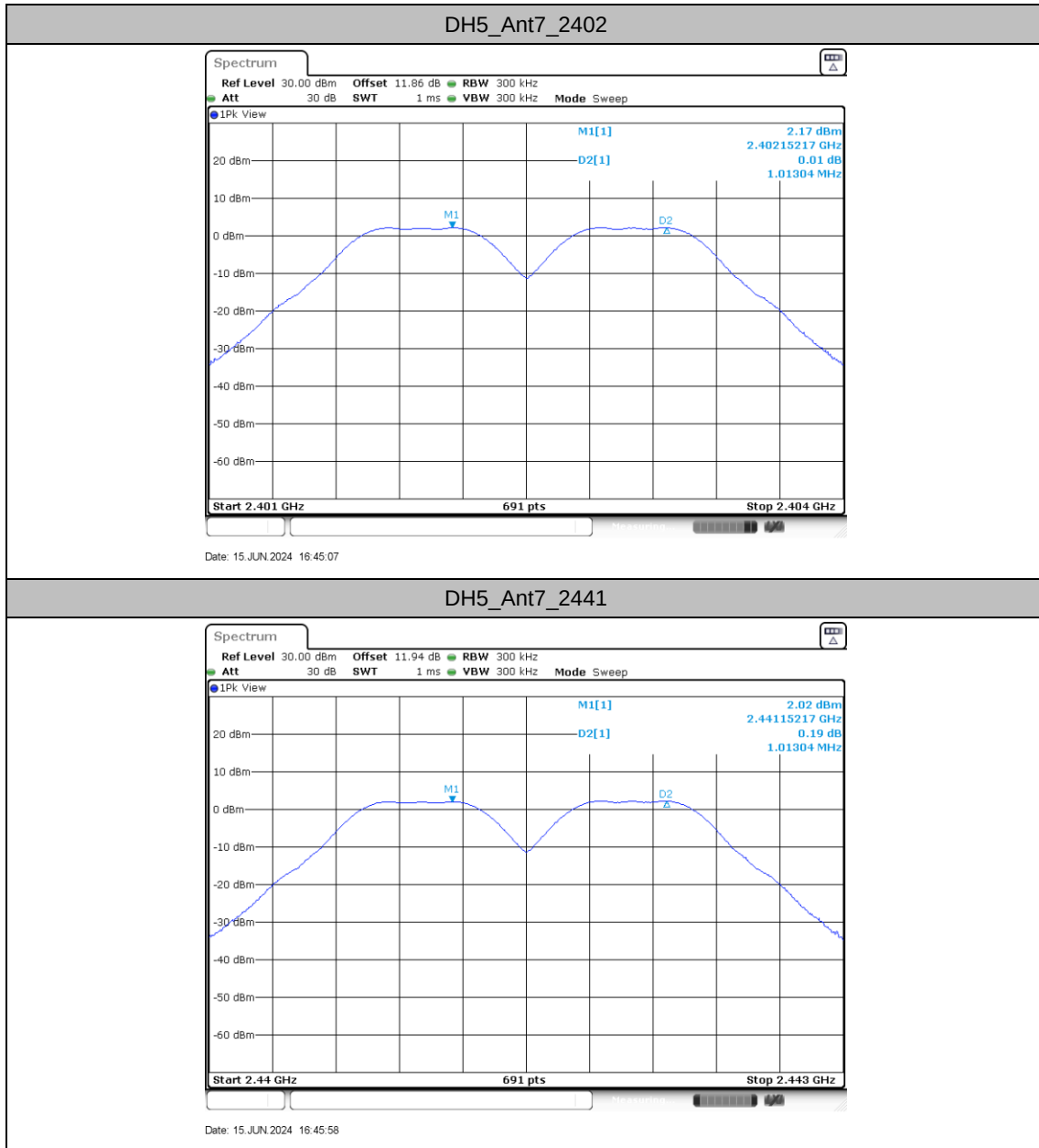
Carrier frequency separation

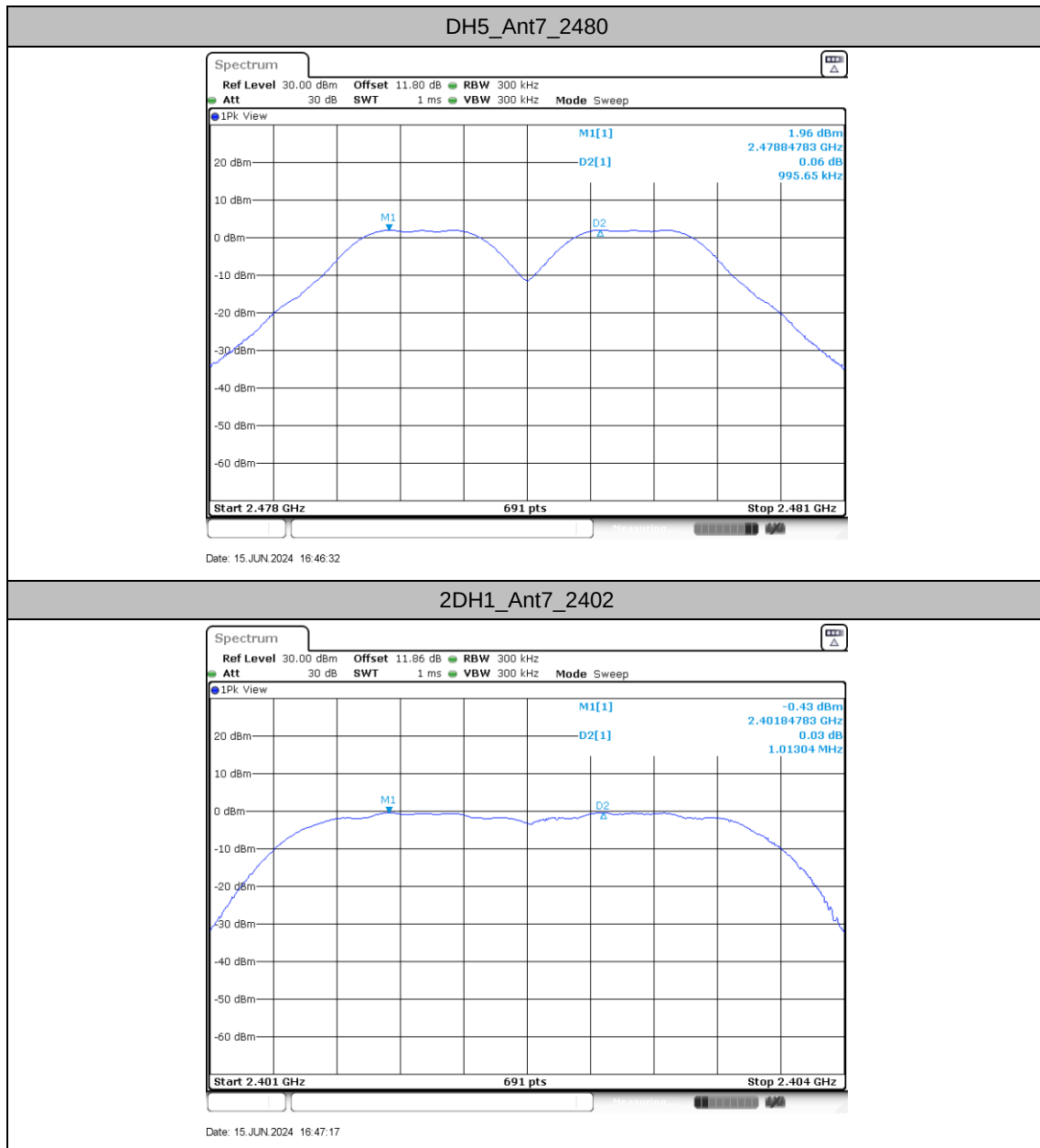
Test Result

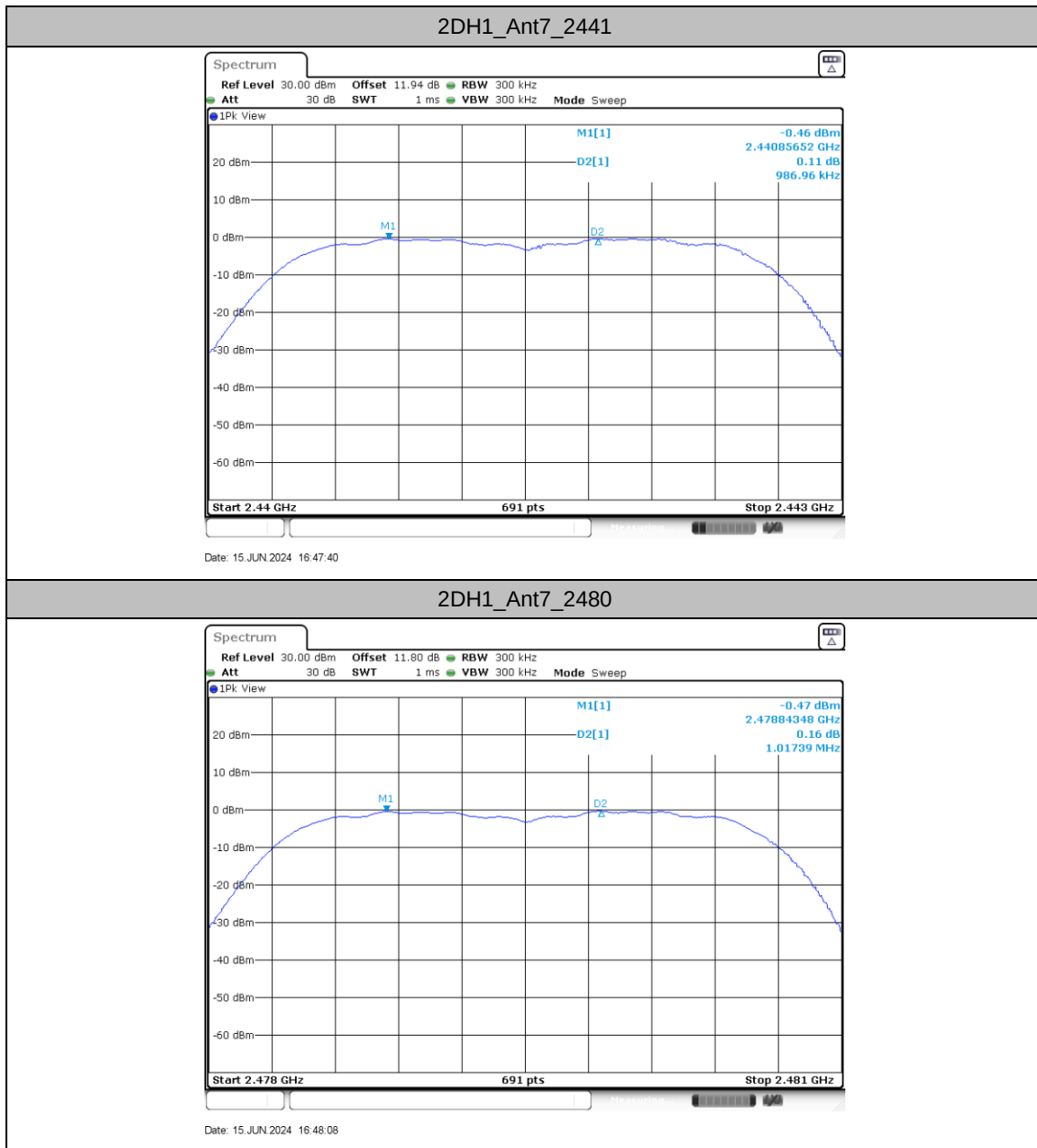
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant7	2402	1.013	≥ 0.620	PASS
		2441	1.013	≥ 0.627	PASS
		2480	0.996	≥ 0.620	PASS
2DH1	Ant7	2402	1.013	≥ 0.840	PASS
		2441	0.987	≥ 0.840	PASS
		2480	1.017	≥ 0.840	PASS
3DH1	Ant7	2402	0.991	≥ 0.833	PASS
		2441	1.009	≥ 0.833	PASS
		2480	0.996	≥ 0.827	PASS

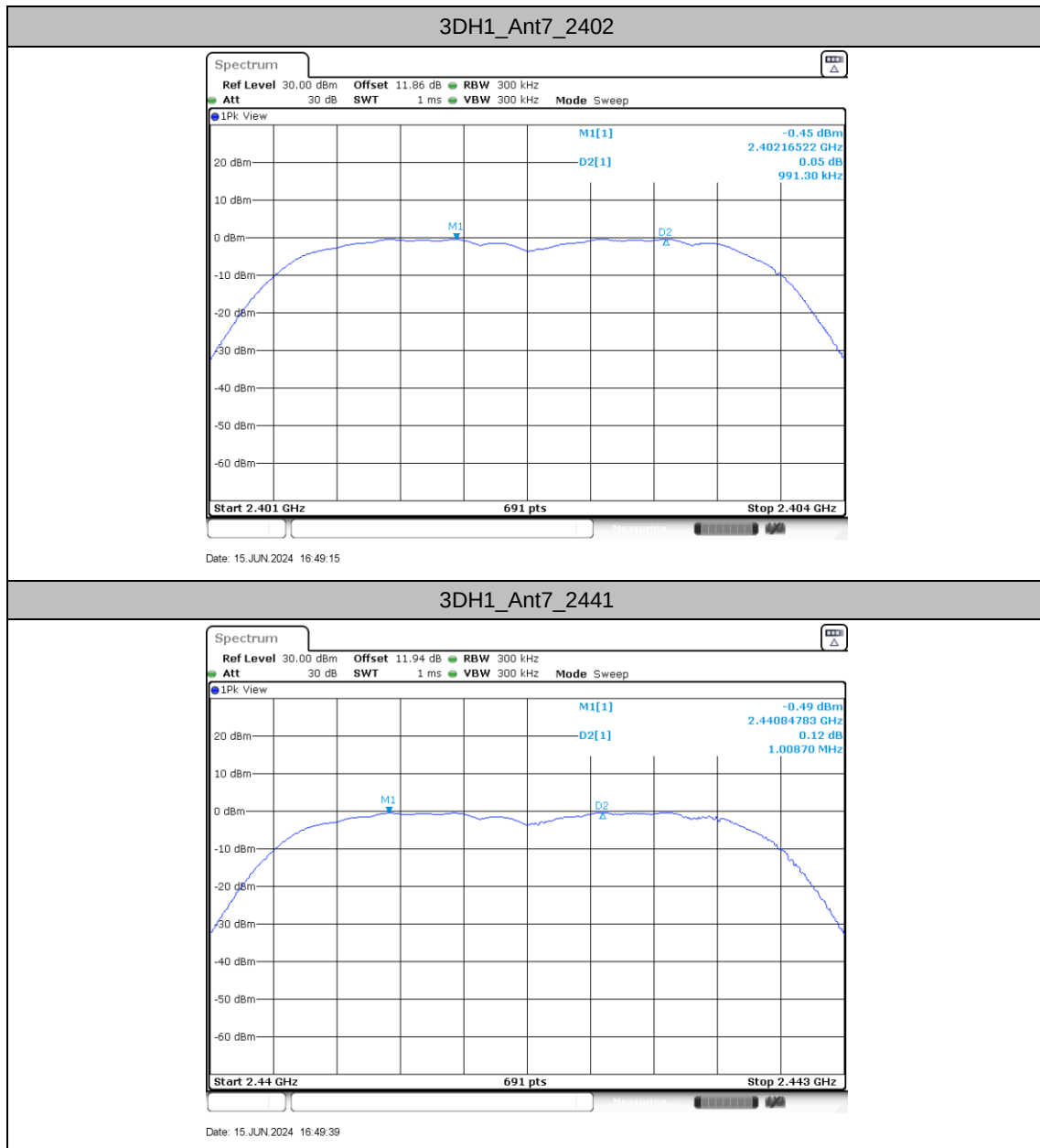


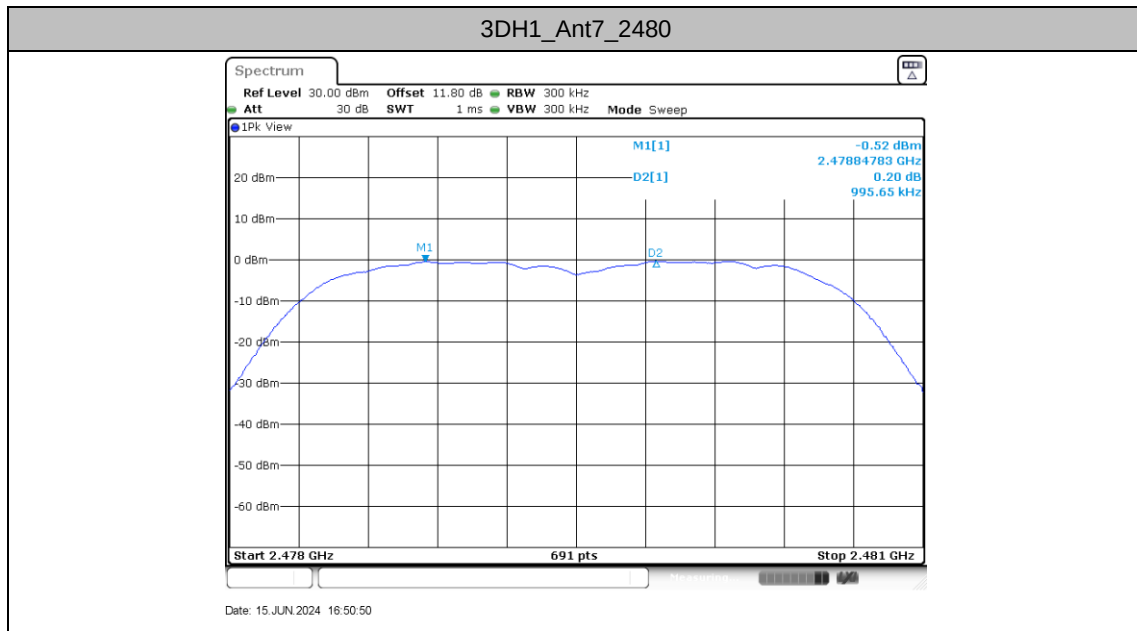
Test Graphs











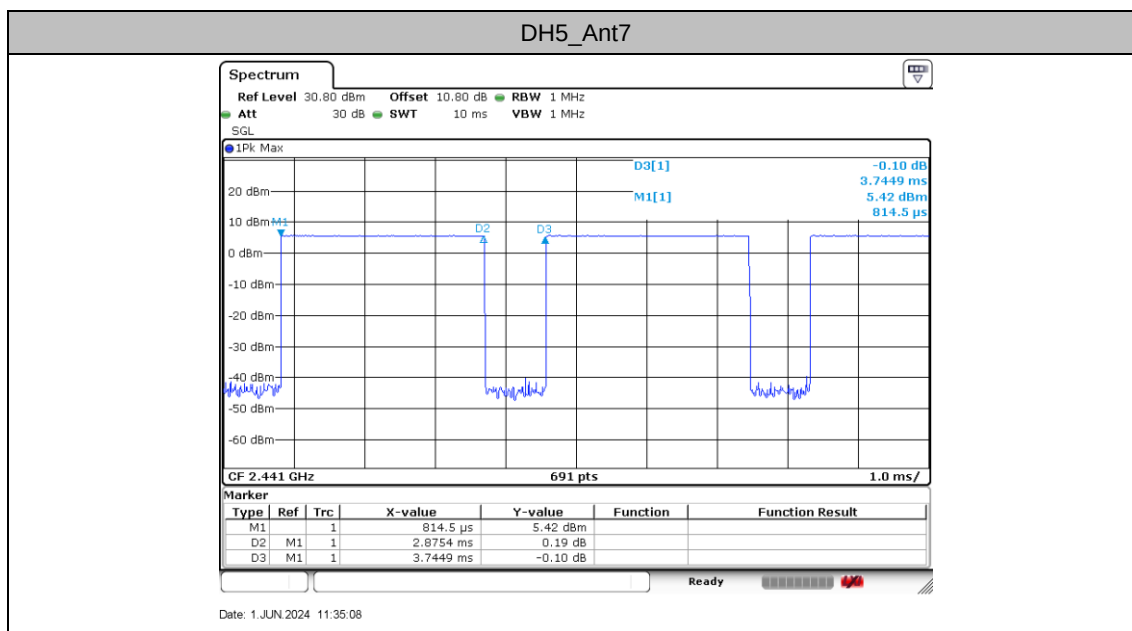


Time of occupancy

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	2.8754	0.31	0.4	Pass
AFH	Ant7	20	53.33	2.8754	0.15	0.4	Pass

Test Graphs



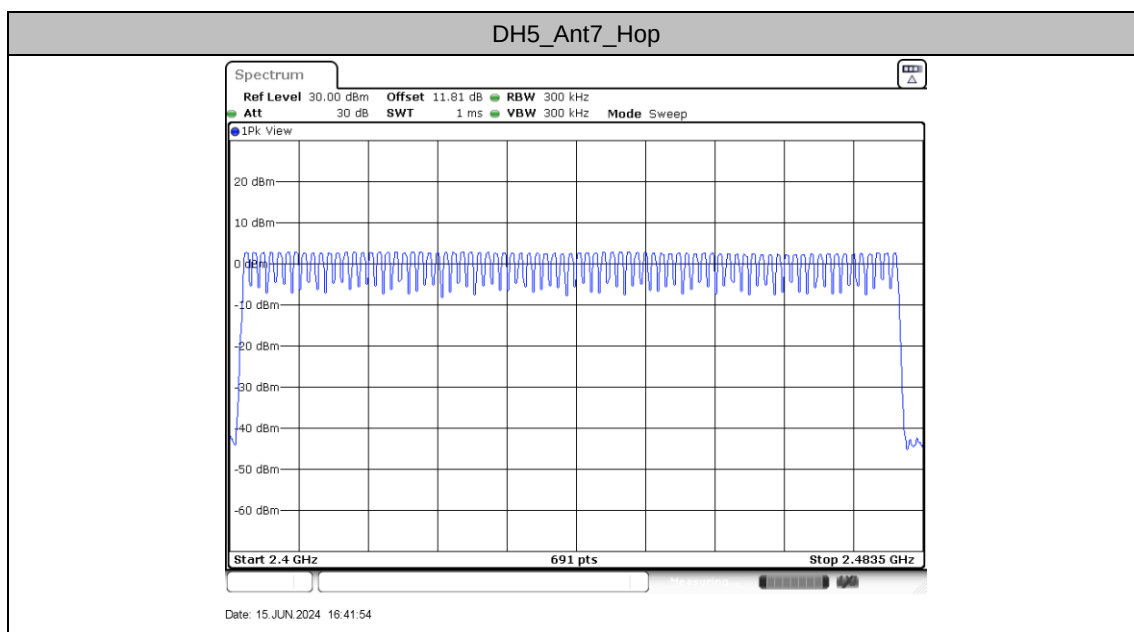


Number of hopping channels

Test Result

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

Test Graphs





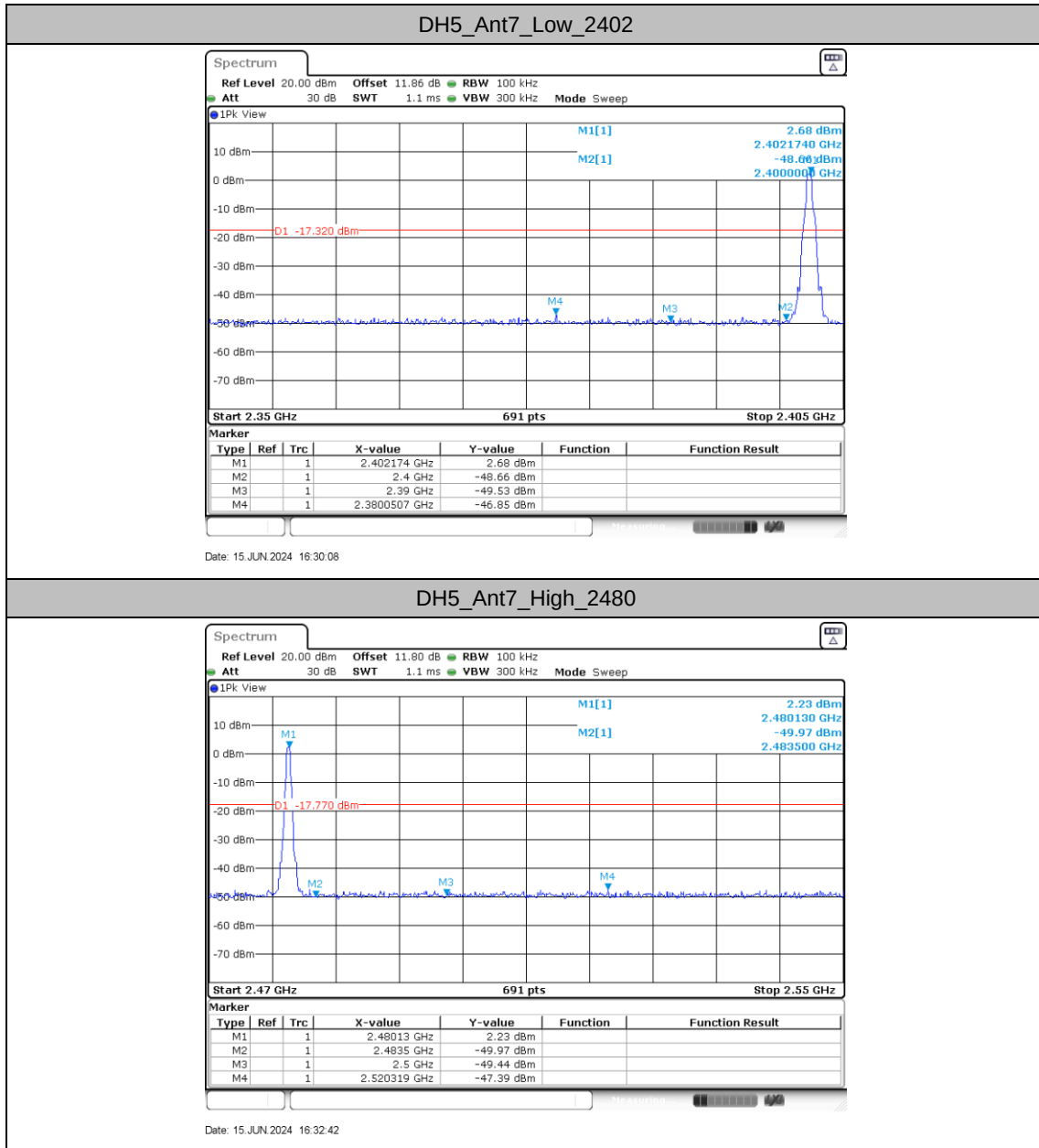
Band edge measurements

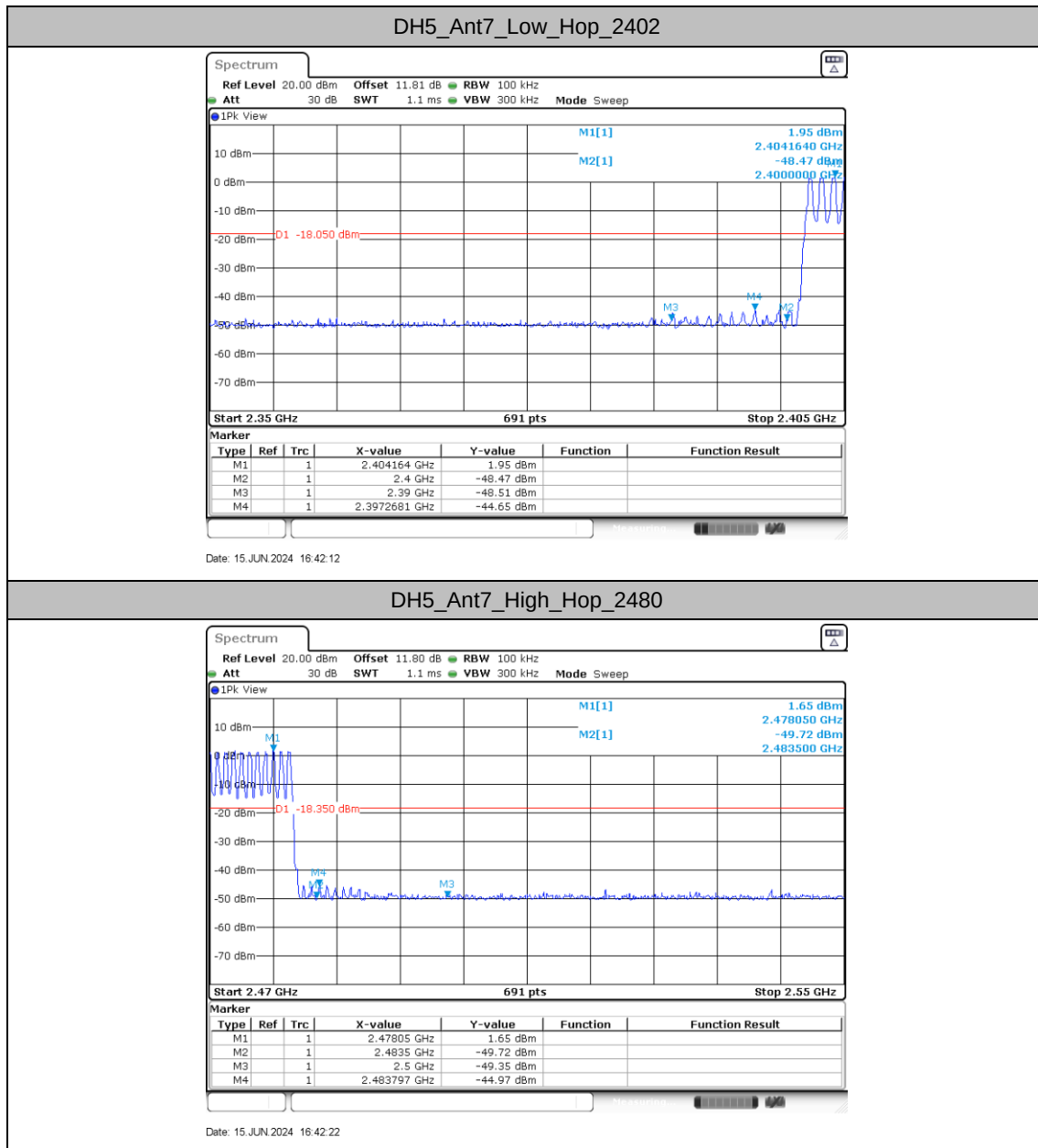
Test Result

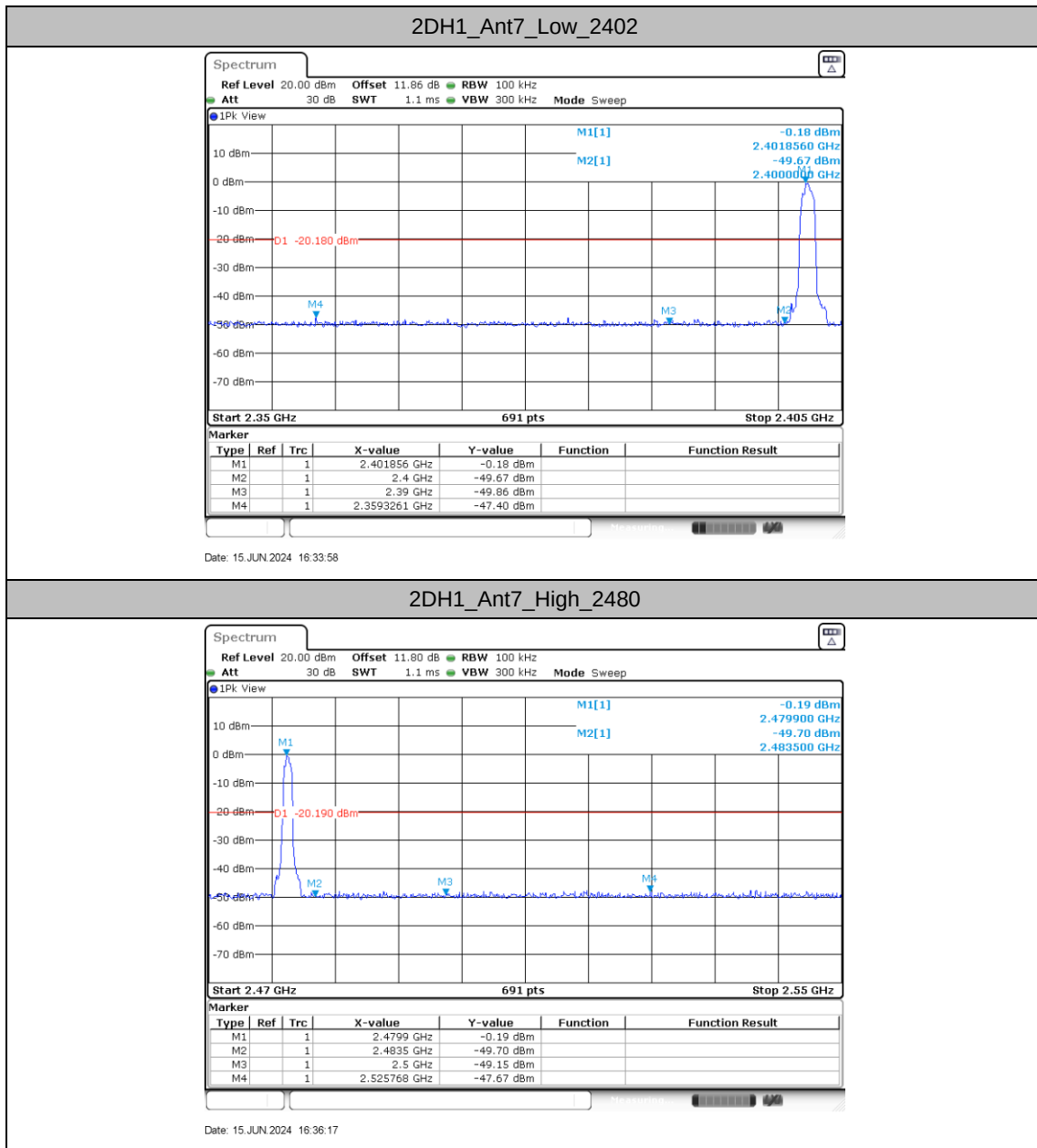
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant7	Low	2402	2.68	-46.85	≤ -17.32	PASS
		High	2480	2.23	-47.39	≤ -17.77	PASS
		Low	Hop_2402	1.95	-44.65	≤ -18.05	PASS
		High	Hop_2480	1.65	-44.97	≤ -18.35	PASS
2DH1	Ant7	Low	2402	-0.18	-47.4	≤ -20.18	PASS
		High	2480	-0.19	-47.67	≤ -20.19	PASS
		Low	Hop_2402	-0.88	-46.68	≤ -20.88	PASS
		High	Hop_2480	-0.44	-47.14	≤ -20.44	PASS
3DH1	Ant7	Low	2402	-0.33	-47.4	≤ -20.33	PASS
		High	2480	-0.33	-47.54	≤ -20.33	PASS
		Low	Hop_2402	-0.56	-45.96	≤ -20.56	PASS
		High	Hop_2480	-0.45	-46.88	≤ -20.45	PASS

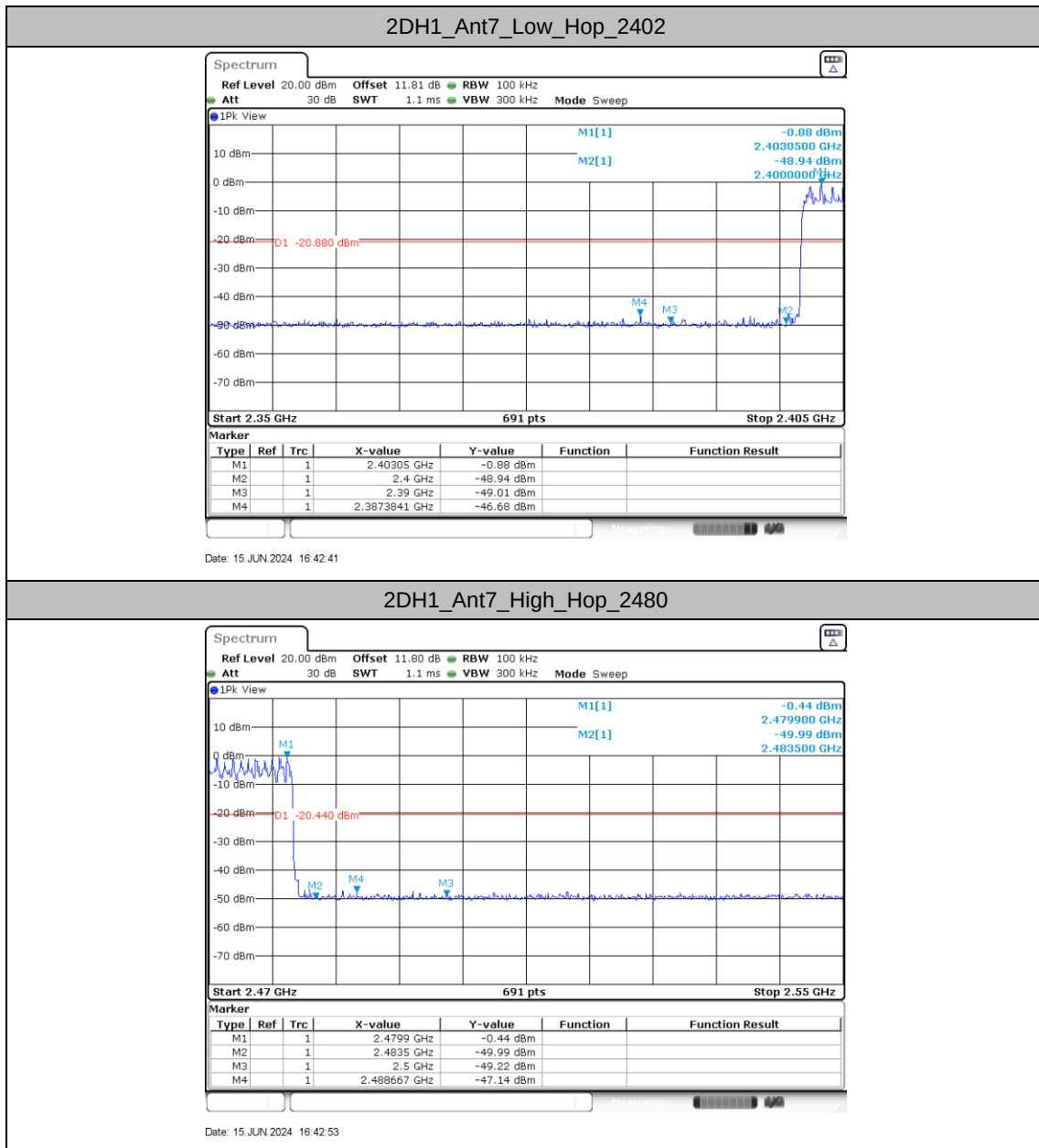


Test Graphs

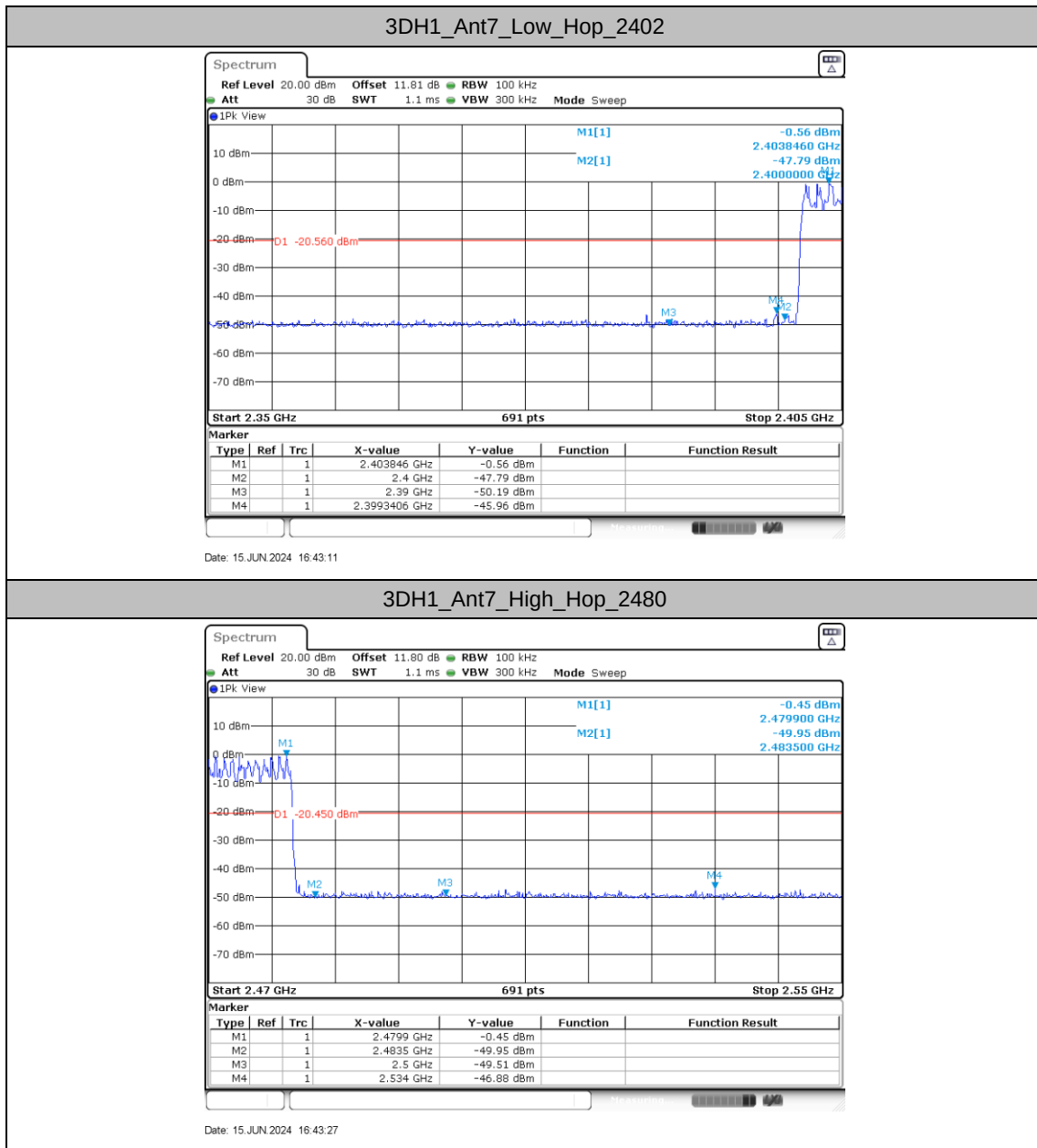














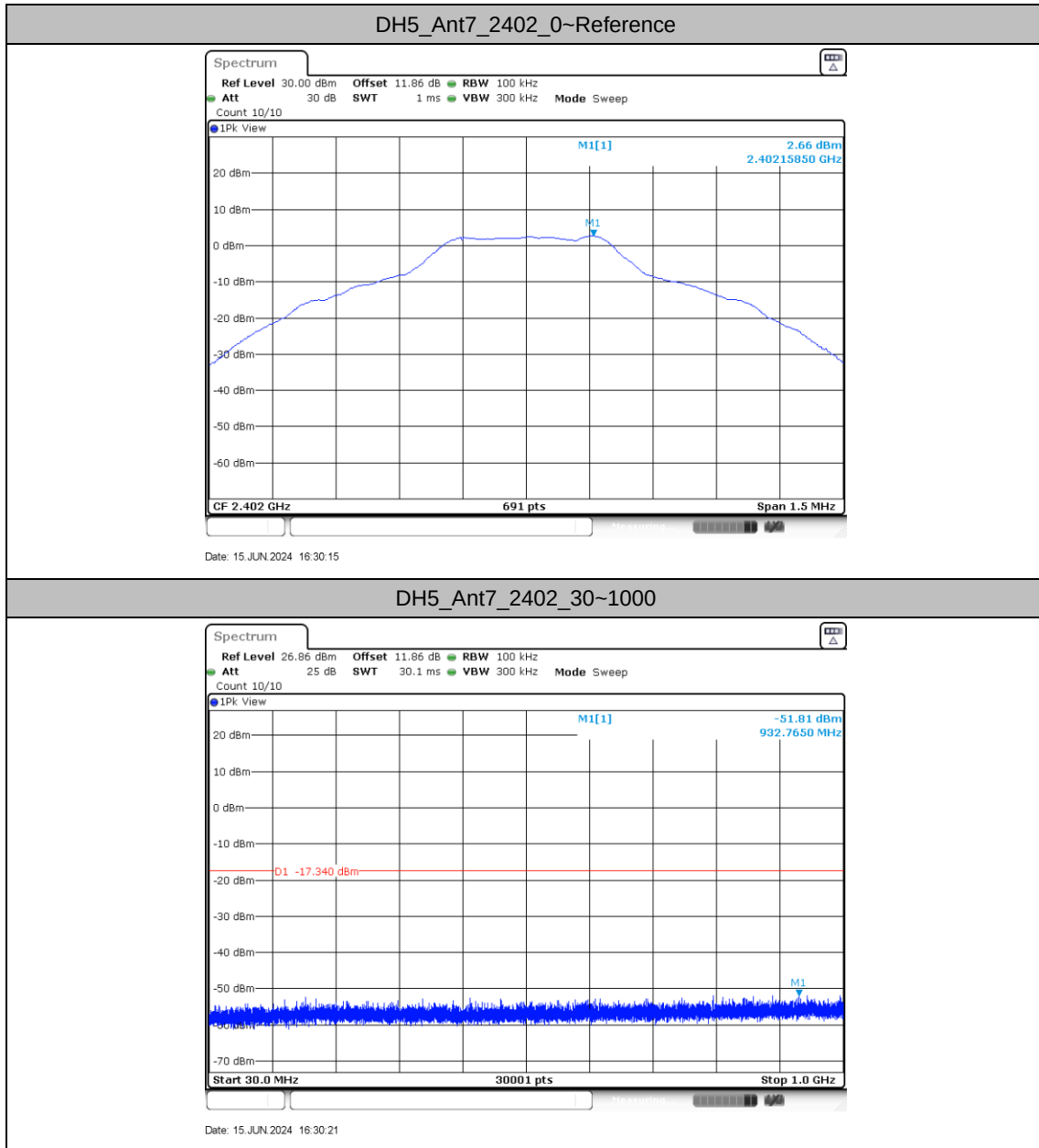
Conducted Spurious Emission

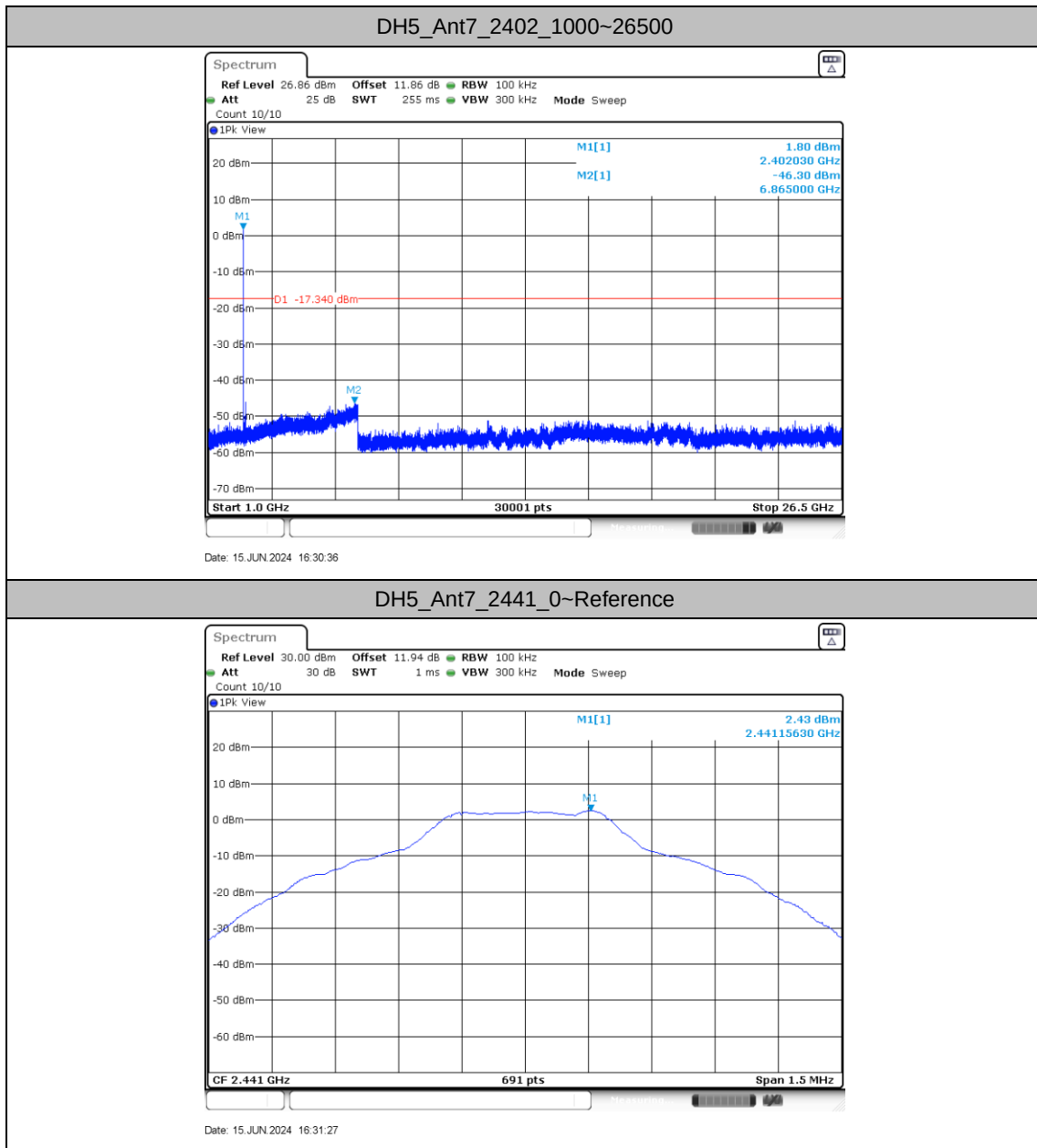
Test Result

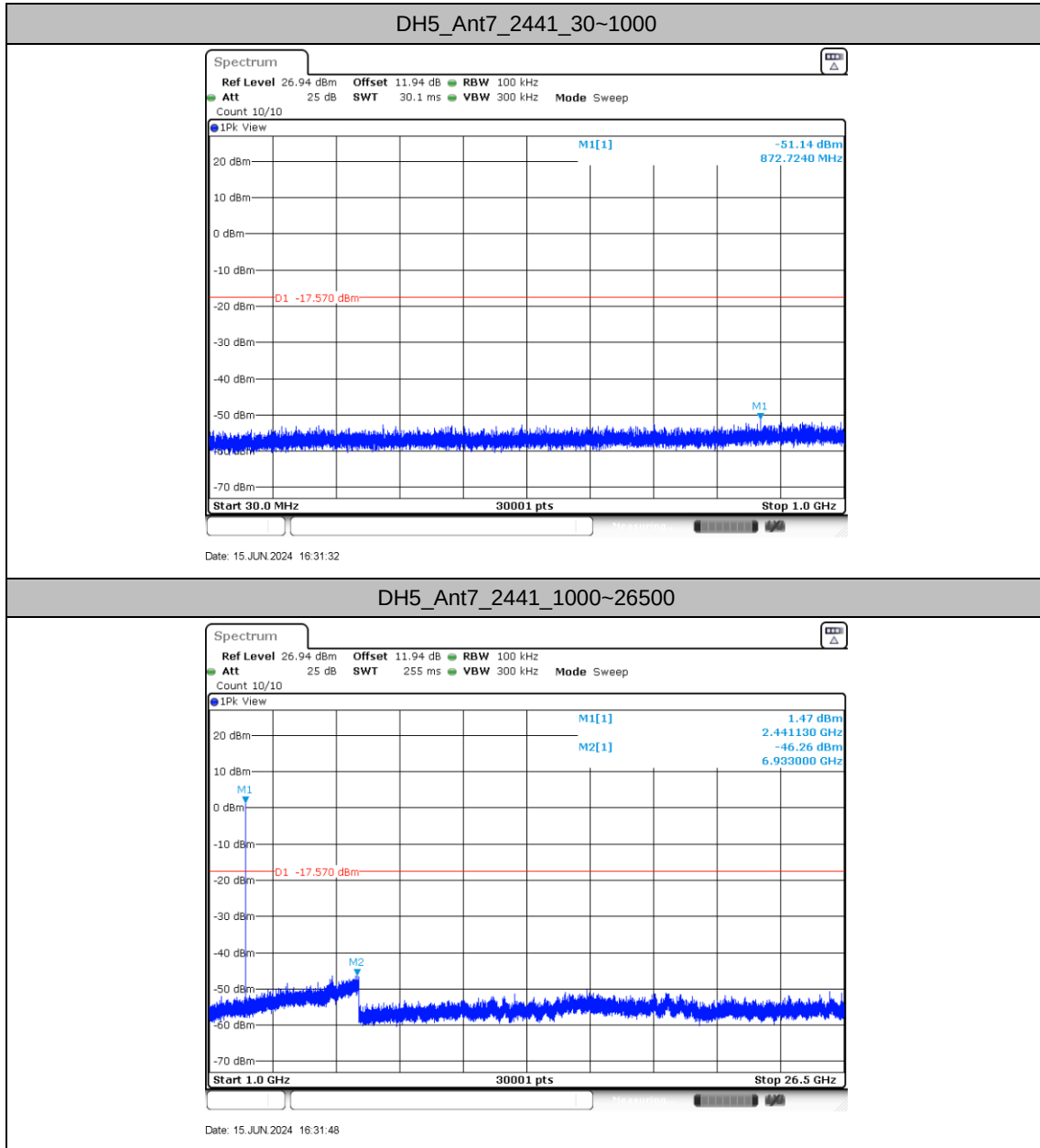
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant7	2402	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-51.81	≤-17.34	PASS
			1000~26500	2.66	-46.3	≤-17.34	PASS
		2441	Reference	2.43	2.43	---	PASS
			30~1000	2.43	-51.14	≤-17.57	PASS
			1000~26500	2.43	-46.26	≤-17.57	PASS
		2480	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-51.64	≤-17.67	PASS
			1000~26500	2.33	-46.65	≤-17.67	PASS
2DH1	Ant7	2402	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-52.11	≤-20.17	PASS
			1000~26500	-0.17	-45.58	≤-20.17	PASS
		2441	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-51.36	≤-20.24	PASS
			1000~26500	-0.24	-45.49	≤-20.24	PASS
		2480	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-52.55	≤-20.15	PASS
			1000~26500	-0.15	-46.59	≤-20.15	PASS
3DH1	Ant7	2402	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-51.92	≤-20.31	PASS
			1000~26500	-0.31	-46.2	≤-20.31	PASS
		2441	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-51.93	≤-20.37	PASS
			1000~26500	-0.37	-45.51	≤-20.37	PASS
		2480	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-51.24	≤-20.27	PASS
			1000~26500	-0.27	-46.47	≤-20.27	PASS

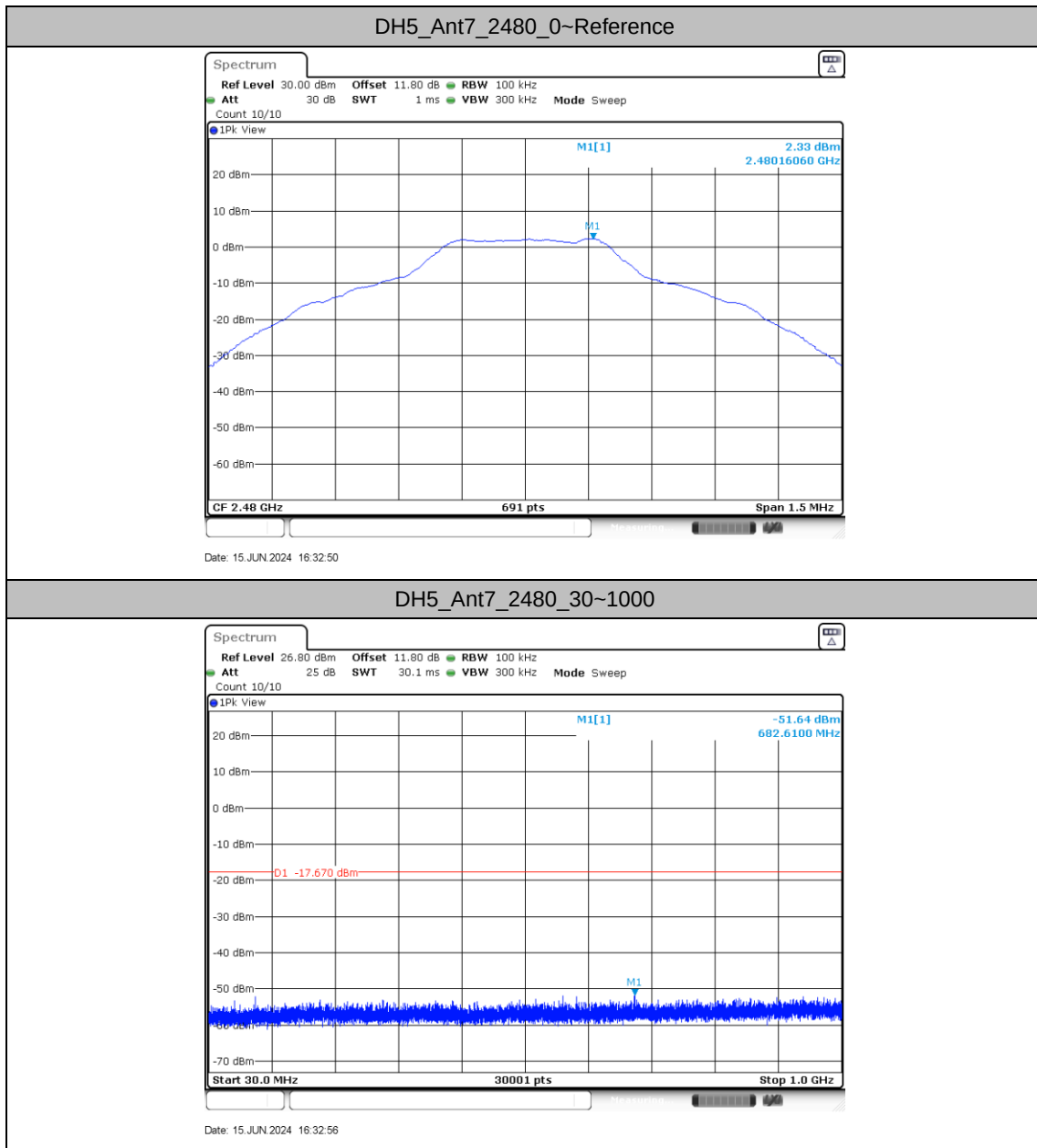


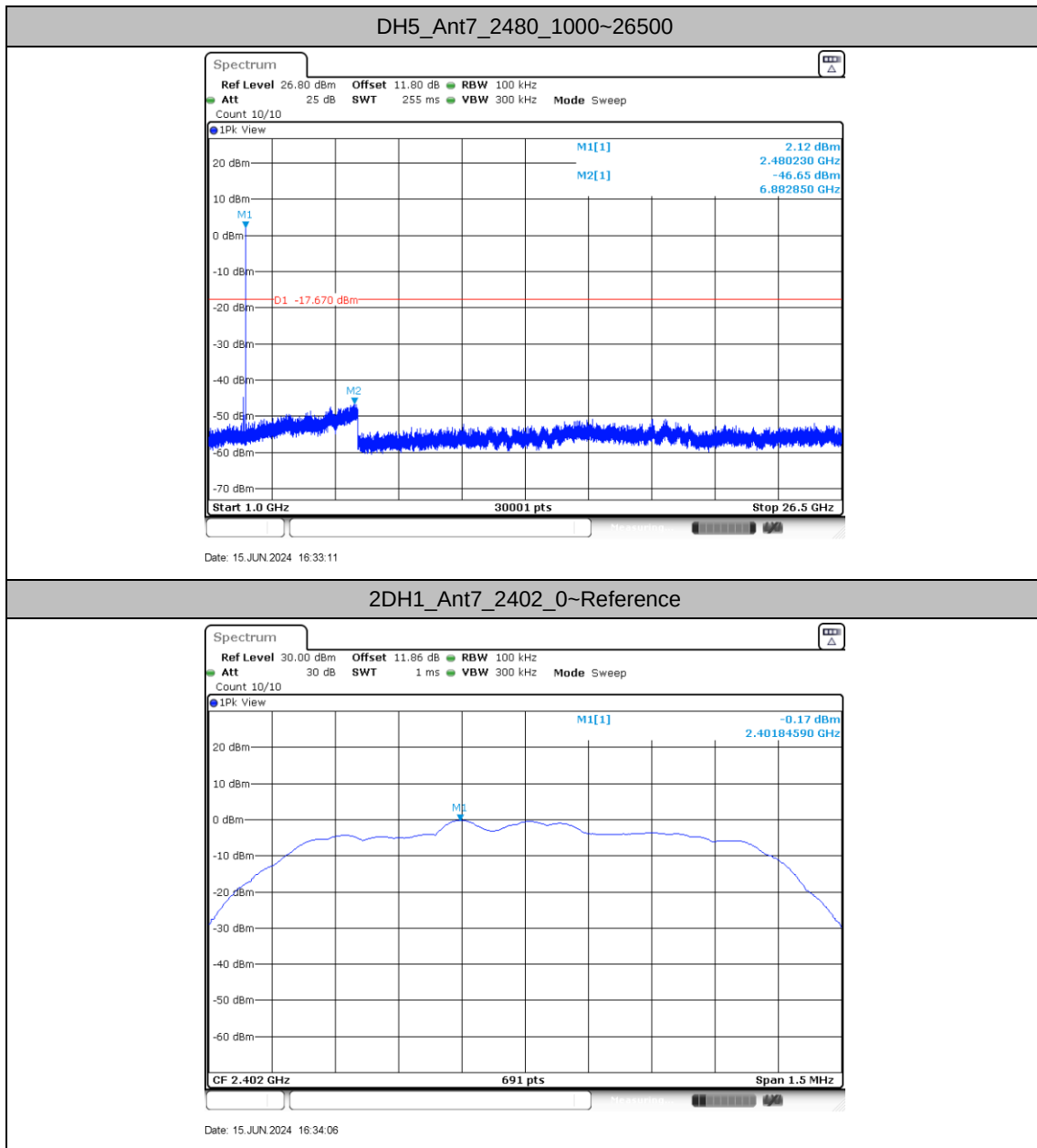
Test Graphs

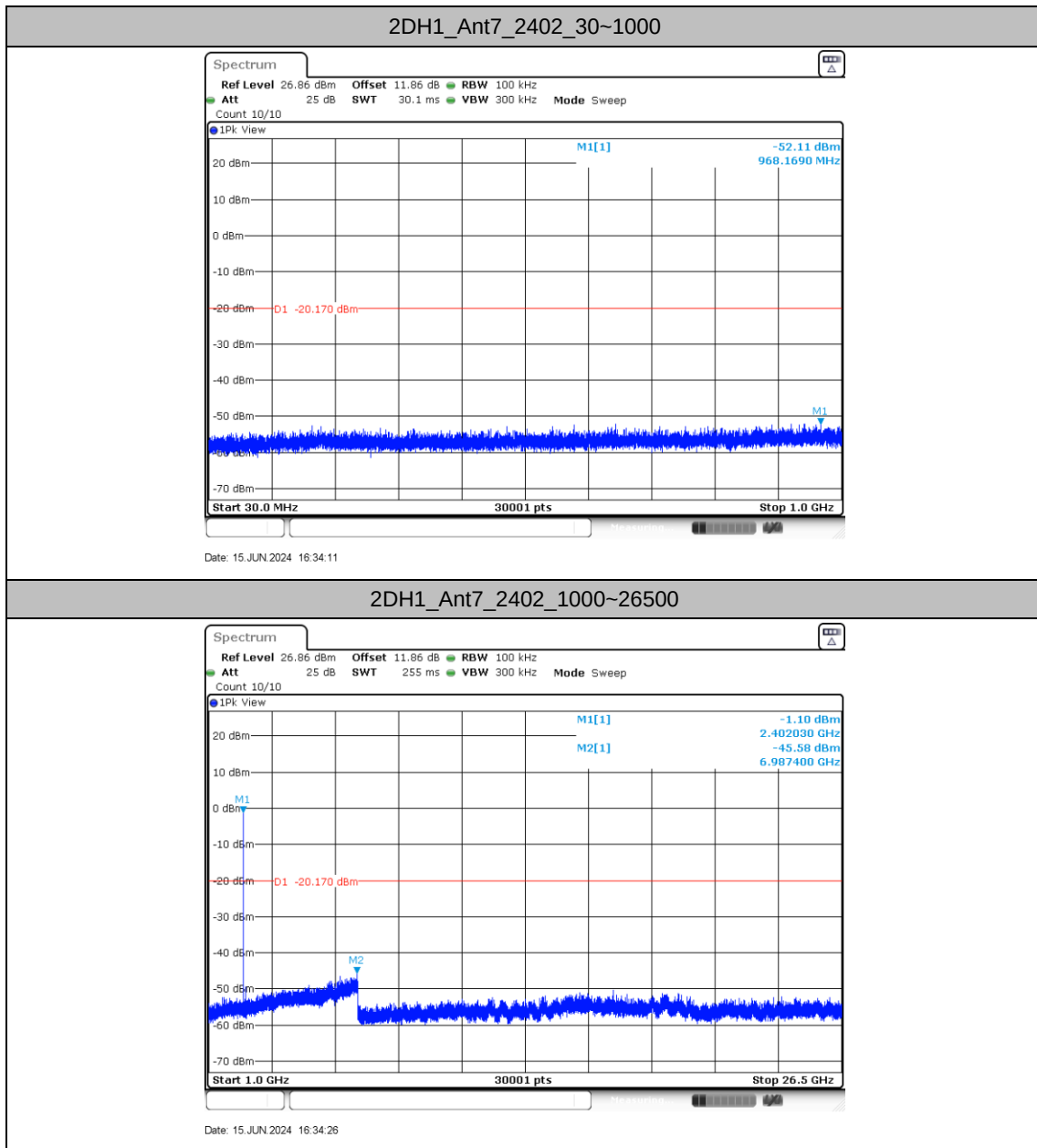


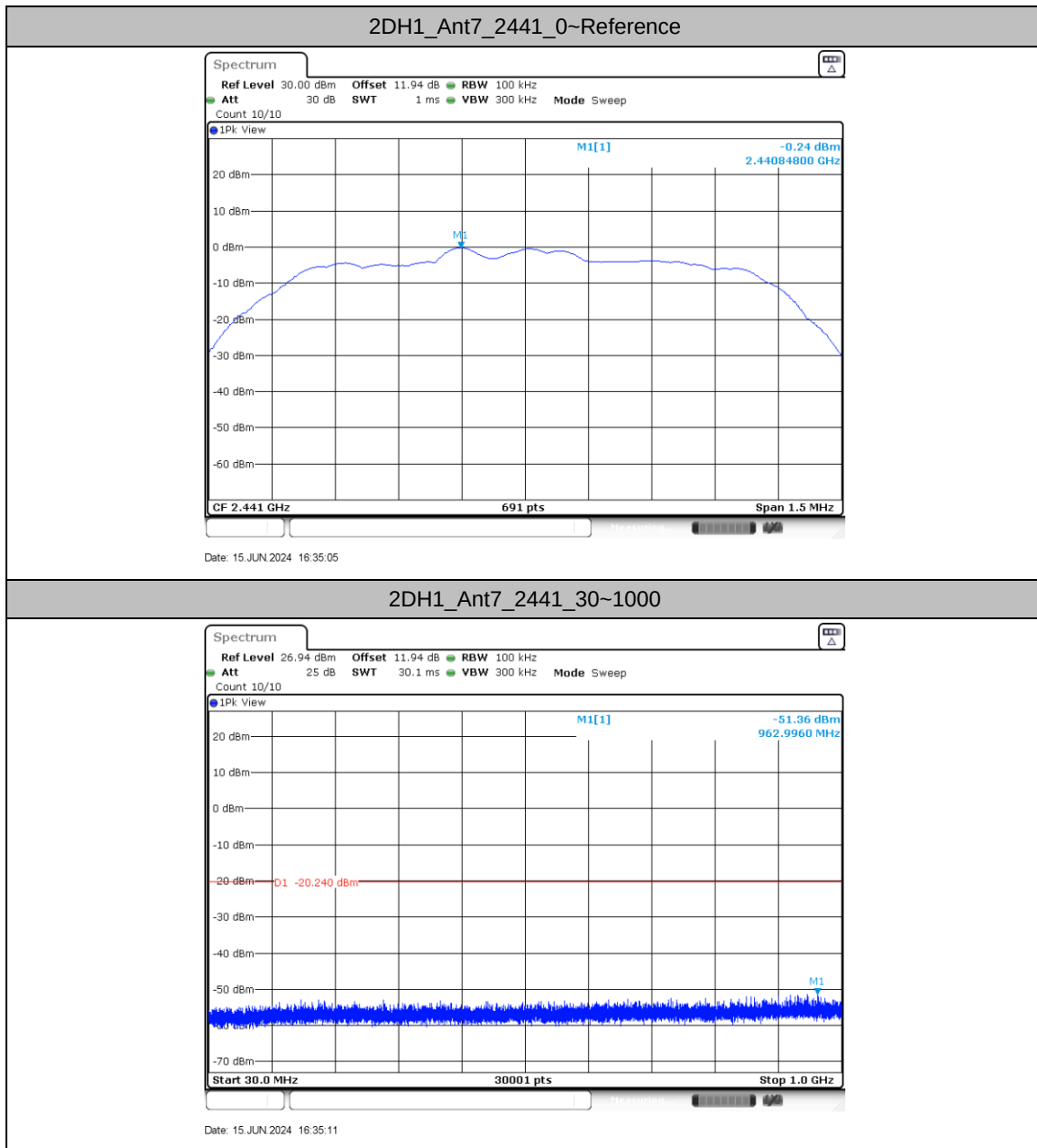


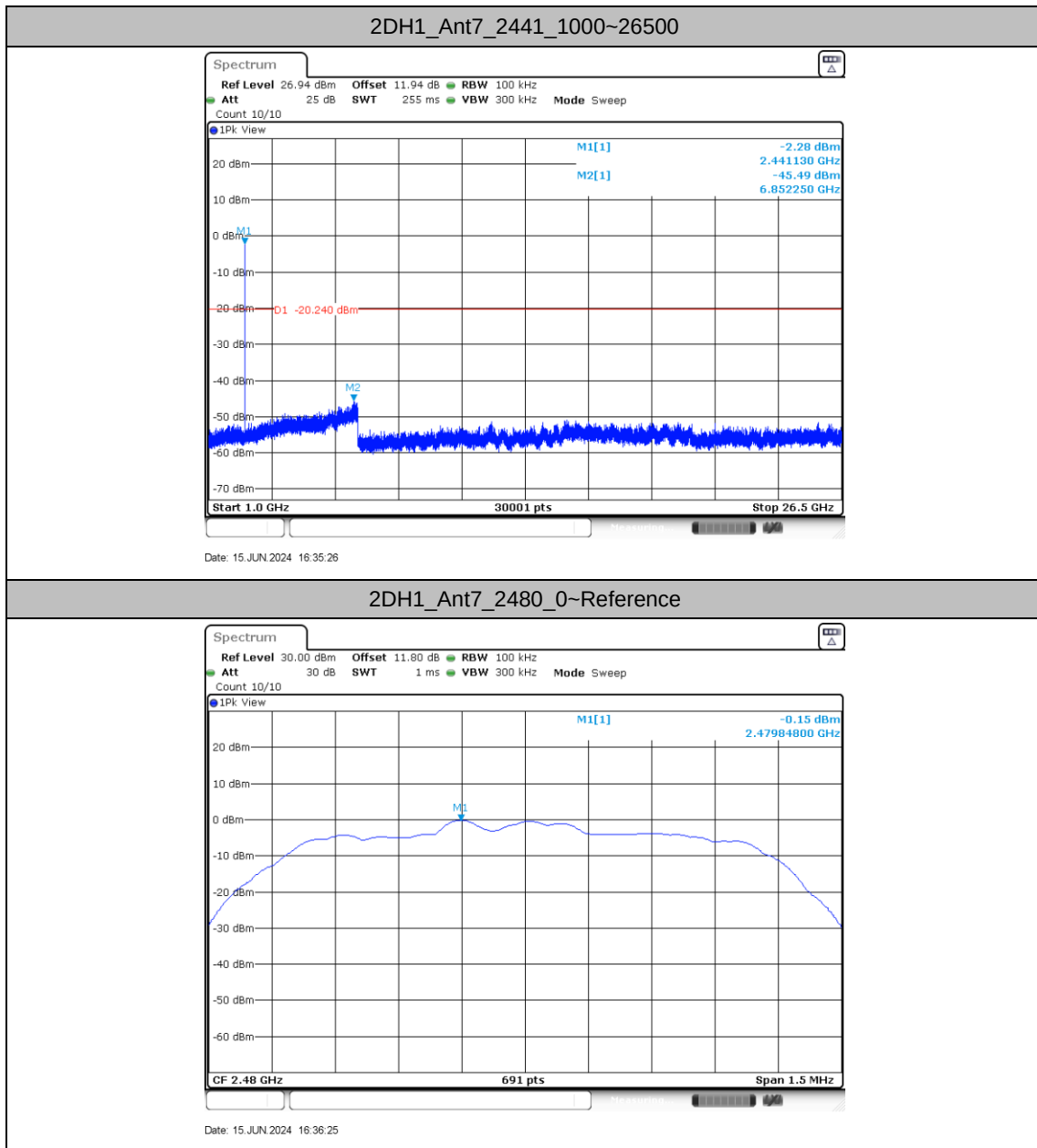


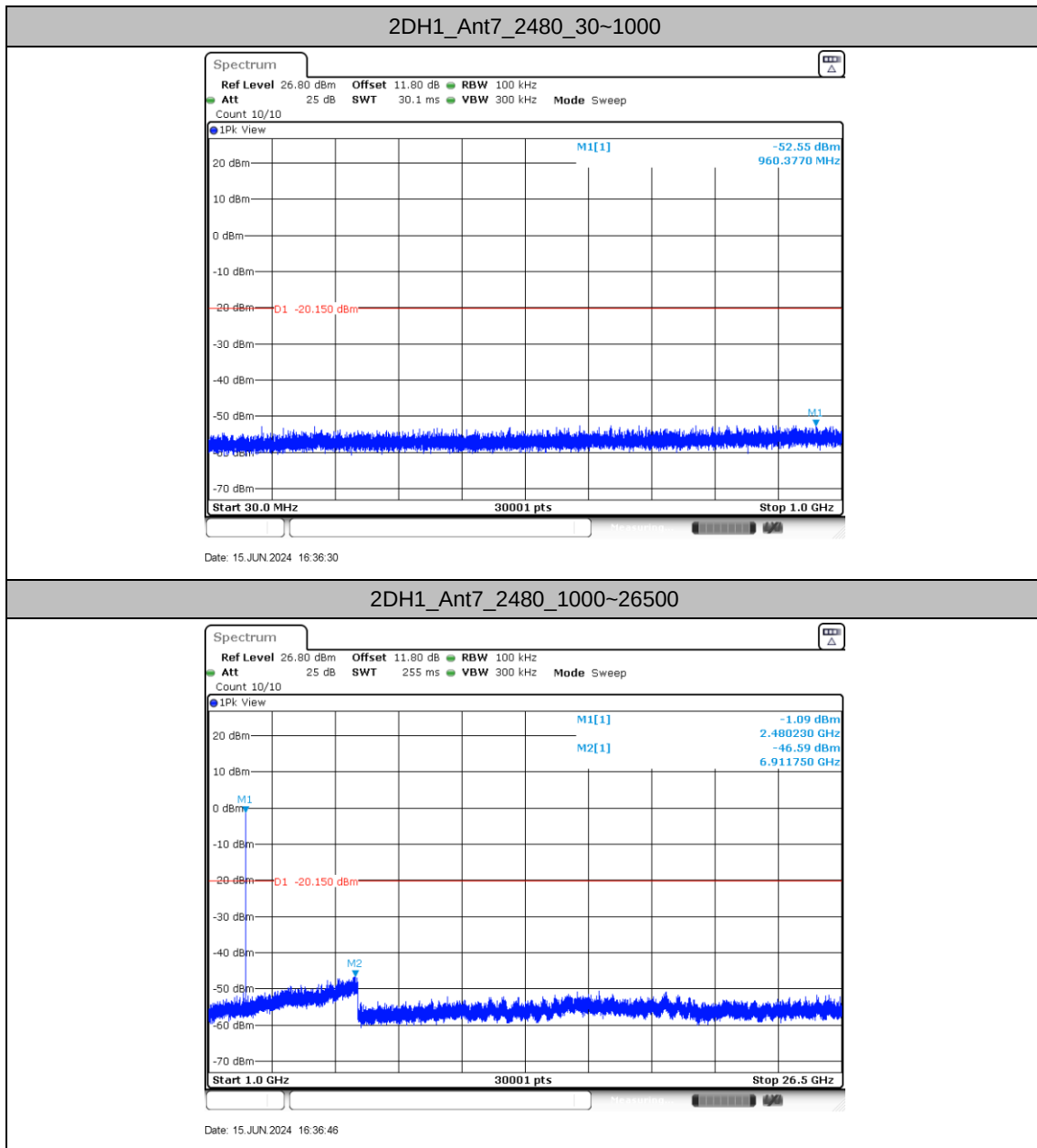


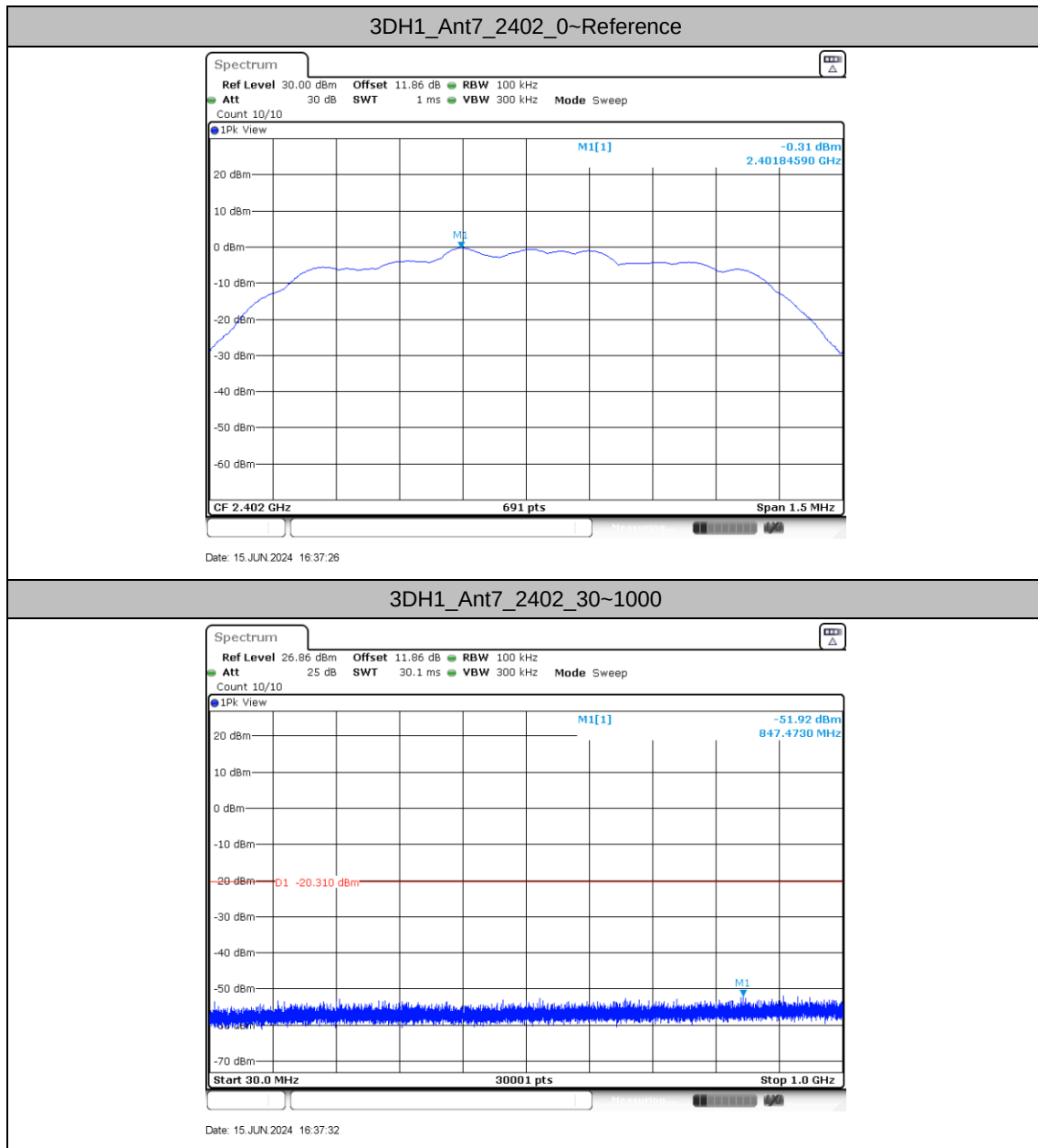


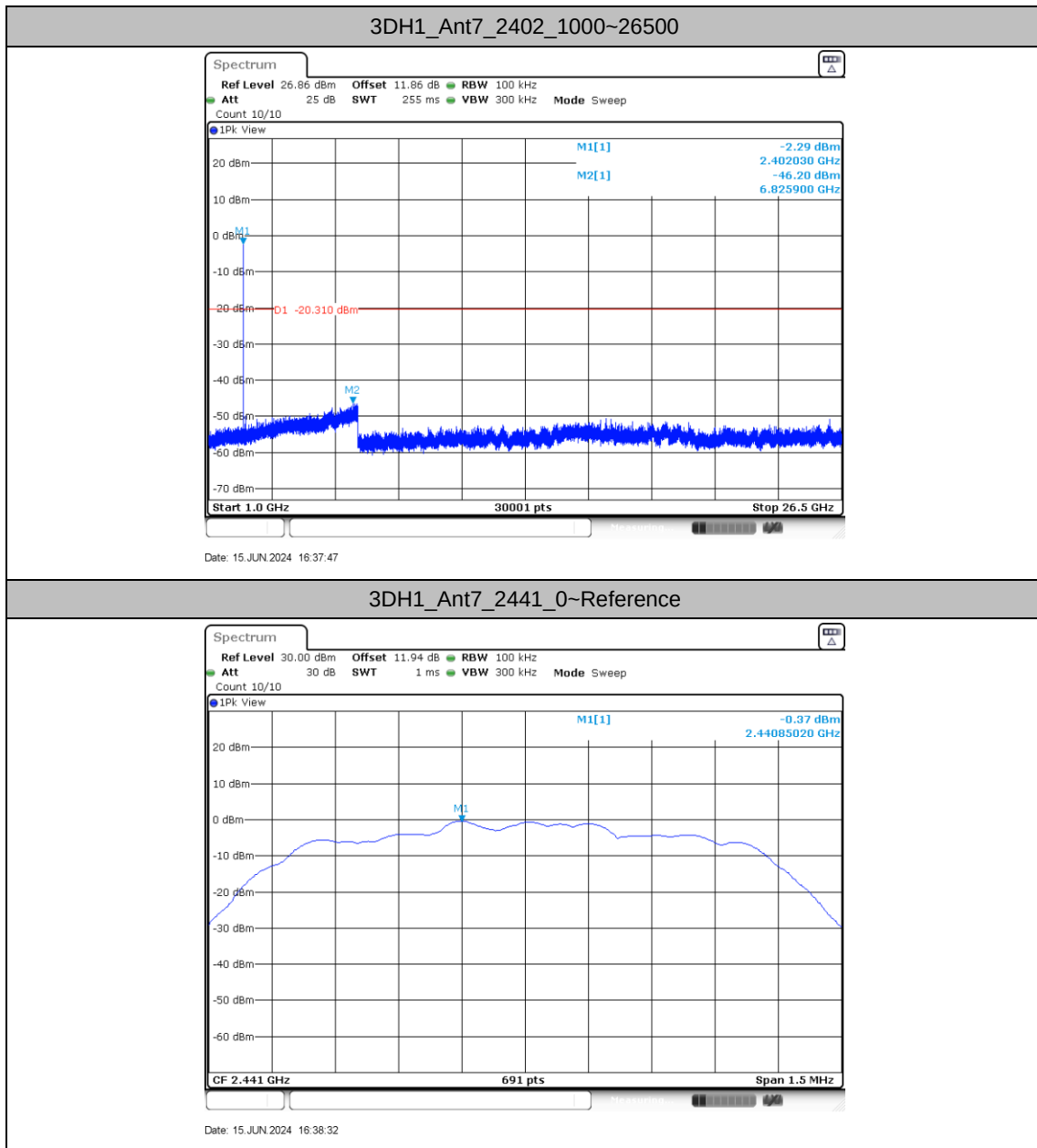


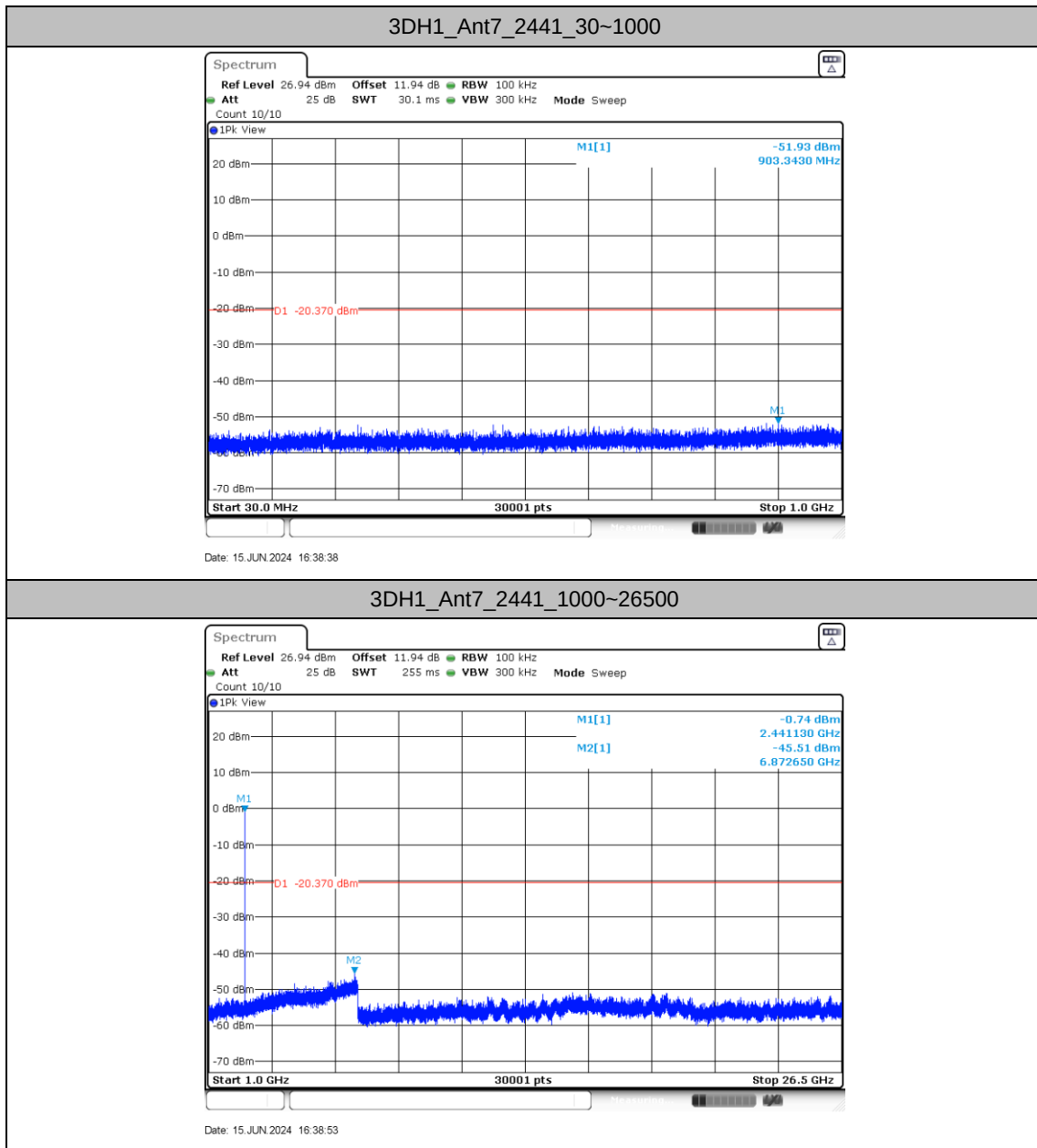


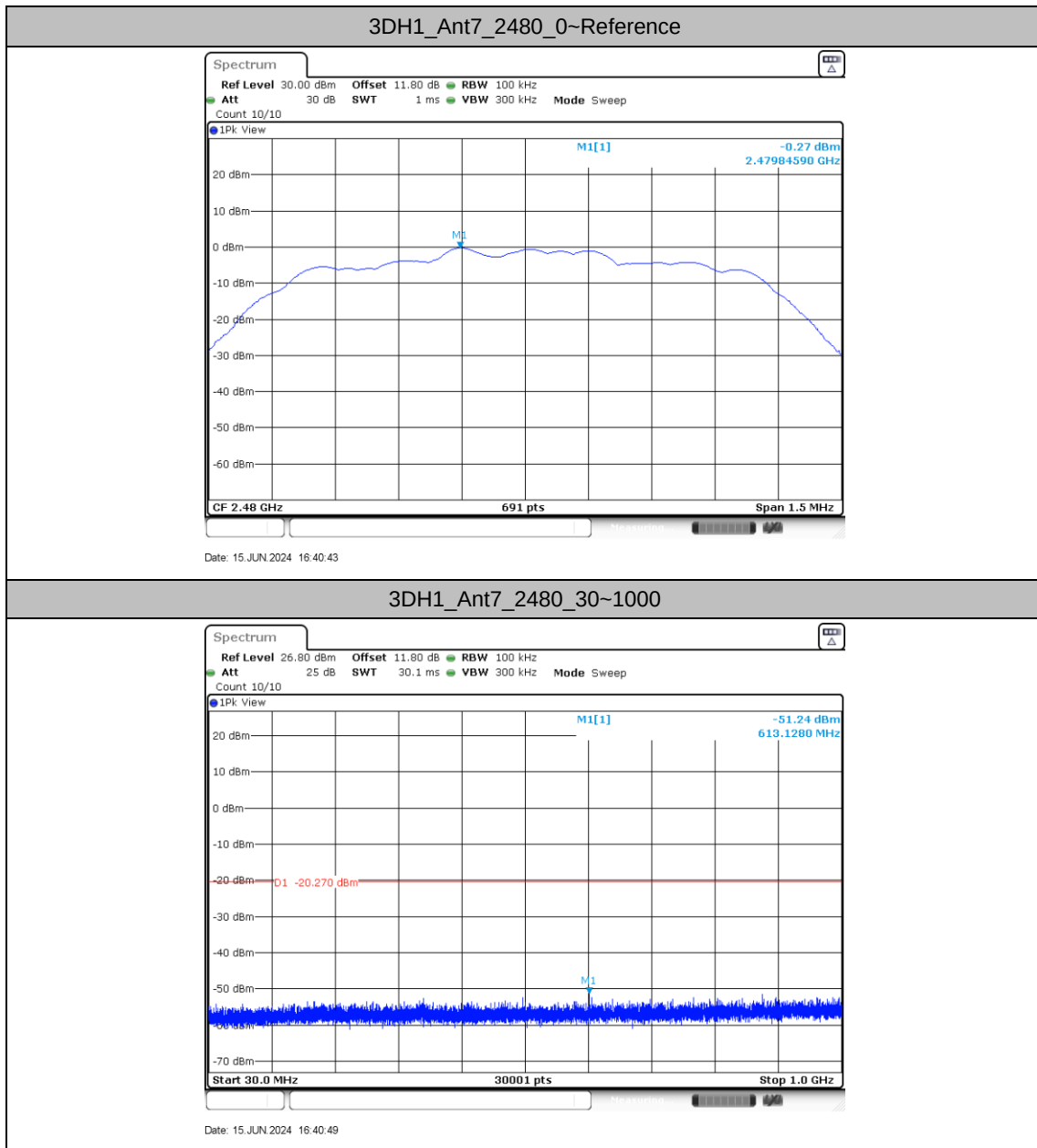


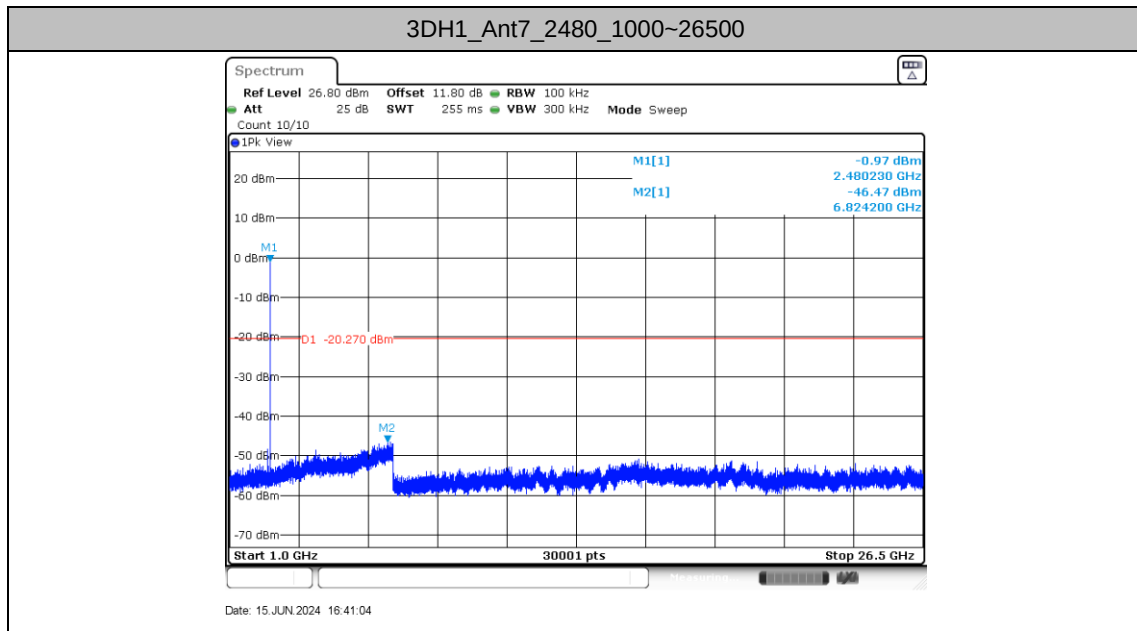






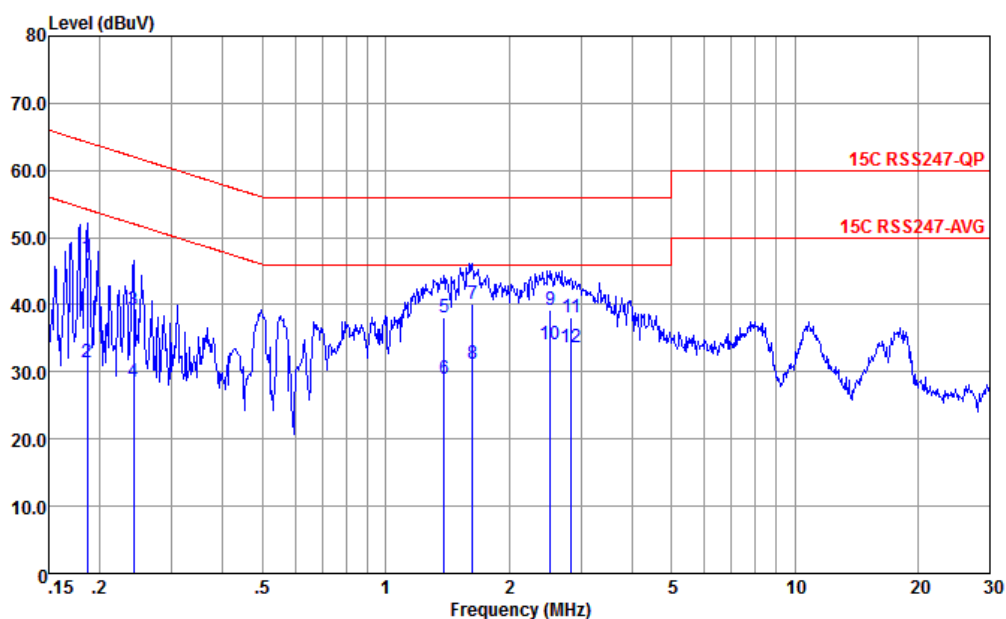






Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos	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.		

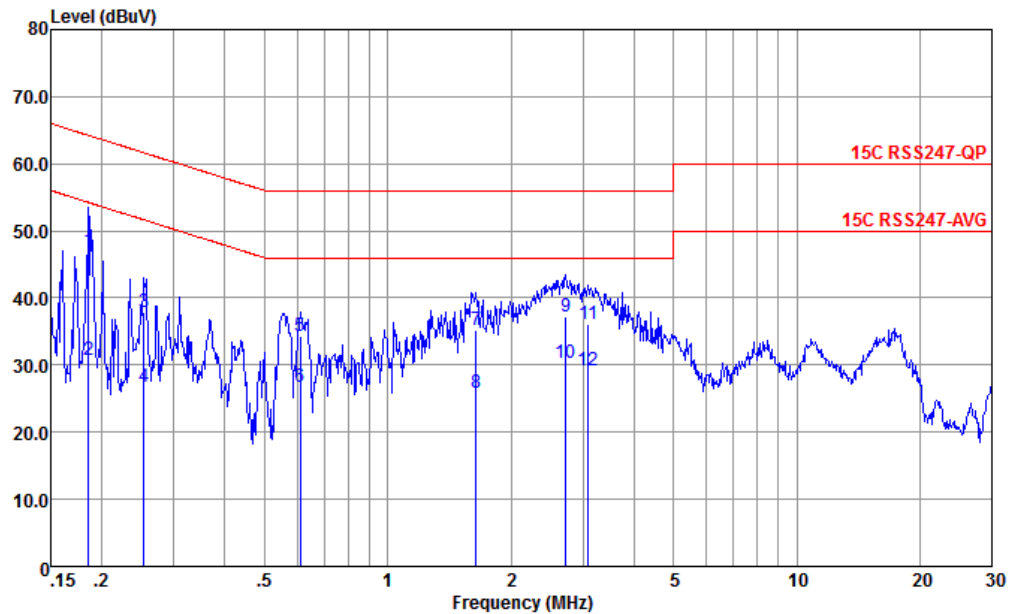


Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.186	47.05	-17.15	64.20	36.61	0.03	10.41	QP
2	0.186	31.47	-22.73	54.20	21.03	0.03	10.41	Average
3	0.242	39.31	-22.73	62.04	28.91	0.03	10.37	QP
4	0.242	28.61	-23.43	52.04	18.21	0.03	10.37	Average
5	1.388	38.17	-17.83	56.00	28.21	-0.12	10.08	QP
6	1.388	28.87	-17.13	46.00	18.91	-0.12	10.08	Average
7	1.628	40.15	-15.85	56.00	30.20	-0.13	10.08	QP
8	1.628	31.25	-14.75	46.00	21.30	-0.13	10.08	Average
9	2.527	39.17	-16.83	56.00	29.21	-0.11	10.07	QP
10 *	2.527	34.07	-11.93	46.00	24.11	-0.11	10.07	Average
11	2.839	38.18	-17.82	56.00	28.20	-0.09	10.07	QP
12	2.839	33.58	-12.42	46.00	23.60	-0.09	10.07	Average



Test Engineer :	Amos	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 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.185	47.06	-17.18	64.24	36.60	0.05	10.41	QP
2	0.185	30.66	-23.58	54.24	20.20	0.05	10.41	Average
3	0.253	37.86	-23.78	61.64	27.49	0.00	10.37	QP
4	0.253	26.66	-24.98	51.64	16.29	0.00	10.37	Average
5	0.611	34.30	-21.70	56.00	24.20	-0.07	10.17	QP
6	0.611	26.70	-19.30	46.00	16.60	-0.07	10.17	Average
7	1.645	35.17	-20.83	56.00	25.20	-0.11	10.08	QP
8	1.645	25.87	-20.13	46.00	15.90	-0.11	10.08	Average
9	2.721	37.14	-18.86	56.00	27.20	-0.13	10.07	QP
10 *	2.721	30.24	-15.76	46.00	20.30	-0.13	10.07	Average
11	3.090	36.14	-19.86	56.00	26.20	-0.13	10.07	QP
12	3.090	29.14	-16.86	46.00	19.20	-0.13	10.07	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. 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

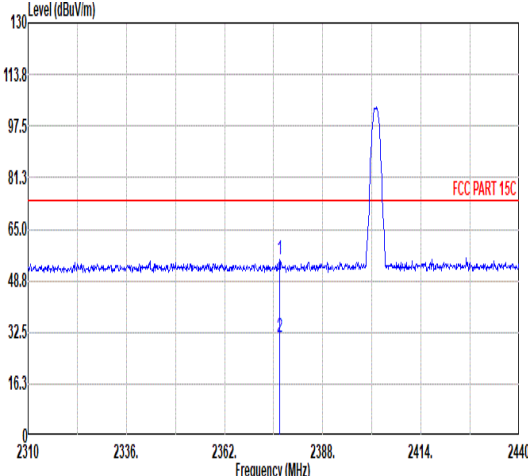
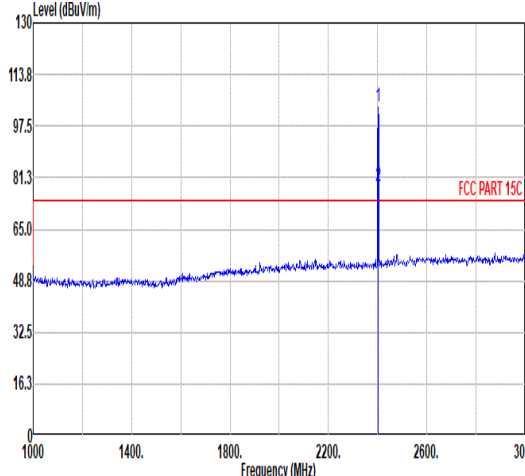
Radiated Spurious Emission Test Modes

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	-	-

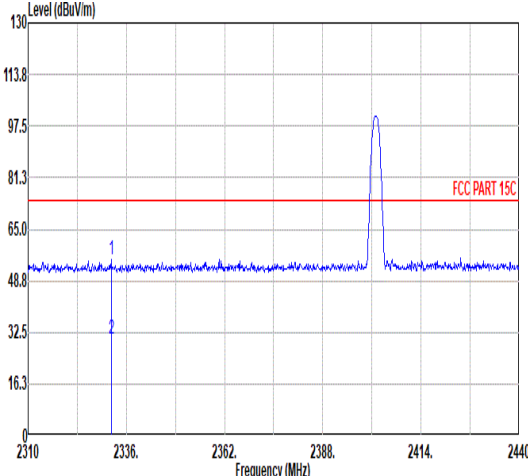
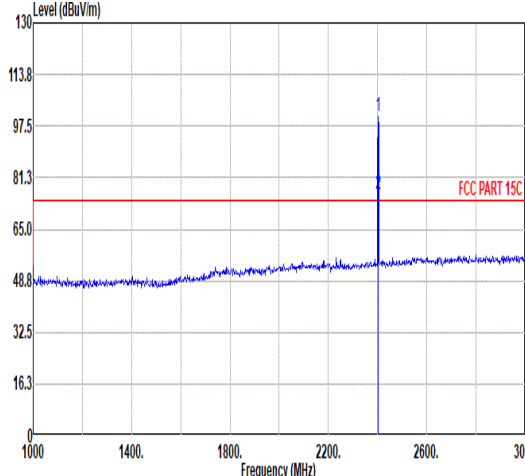
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	0	2376.56	55.58	74.00	-18.42	H	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	0	4804.00	42.44	74.00	-31.56	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	2371.23	55.68	74.00	-18.32	V	PEAK	Pass	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	45.54	74.00	-28.46	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2495.52	55.36	74.00	-18.64	H	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	43.82	74.00	-30.18	V	PEAK	Pass	Harmonic

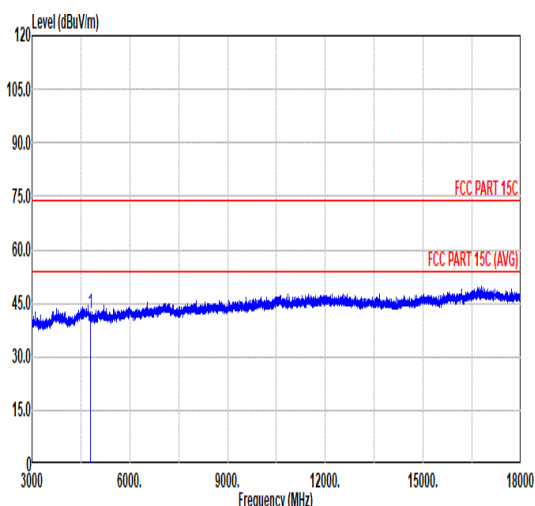
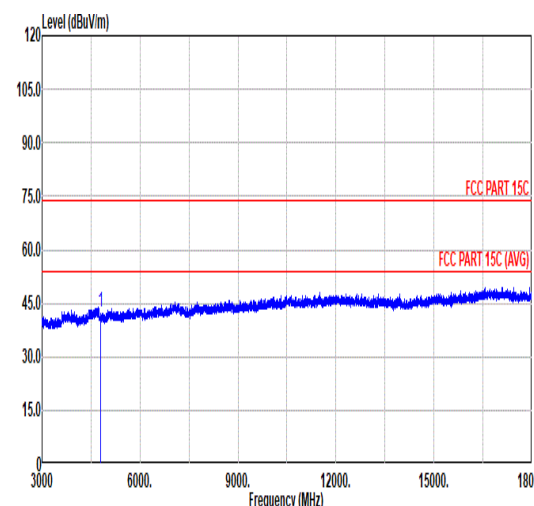


Mode	1																																																																																																																													
	Band Edge																																																																																																																													
	2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz																																																																																																																													
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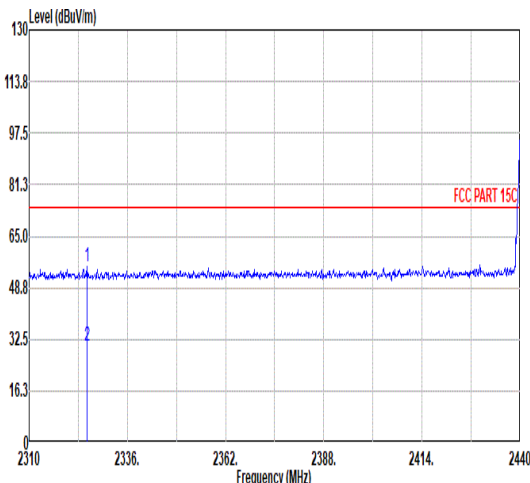
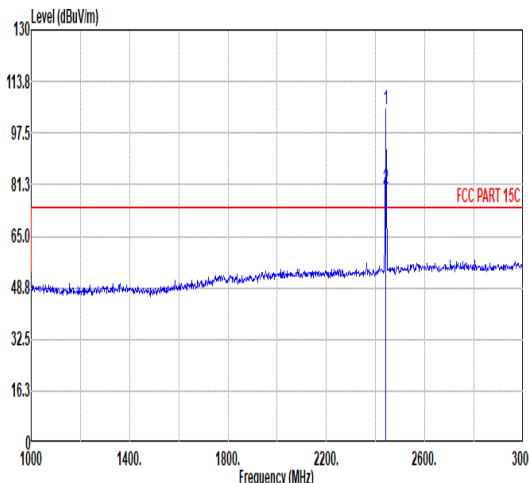


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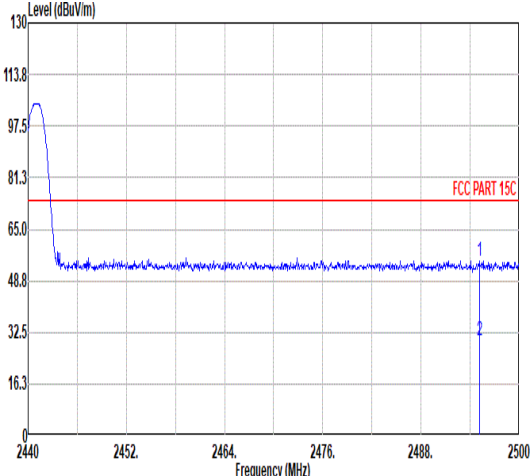


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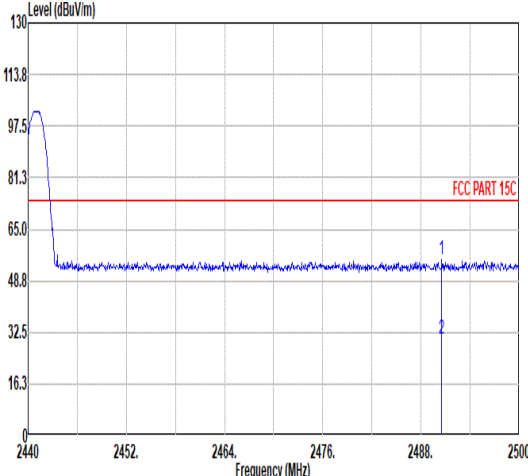


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Peak	Level (dBuV/m) Frequency (MHz) FCC PART 15C <table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><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>2371.23</td><td>55.68</td><td>74.00</td><td>-18.32</td><td>43.56</td><td>31.74</td><td>6.57</td><td>32.19</td><td>6.00</td><td>376</td><td>6 PEAK</td></tr><tr><td>2</td><td>2371.23</td><td>30.89</td><td>54.00</td><td>-23.11</td><td>18.77</td><td>31.74</td><td>6.57</td><td>32.19</td><td>6.00</td><td>376</td><td>6 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	2371.23	55.68	74.00	-18.32	43.56	31.74	6.57	32.19	6.00	376	6 PEAK	2	2371.23	30.89	54.00	-23.11	18.77	31.74	6.57	32.19	6.00	376	6 AVERAGE
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1	2371.23	55.68	74.00	-18.32	43.56	31.74	6.57	32.19	6.00	376	6 PEAK																																																							
2	2371.23	30.89	54.00	-23.11	18.77	31.74	6.57	32.19	6.00	376	6 AVERAGE																																																							
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1	2441.00	102.32	-----	89.97	31.88	6.68	32.21	6.00	376	6 PEAK																																																								
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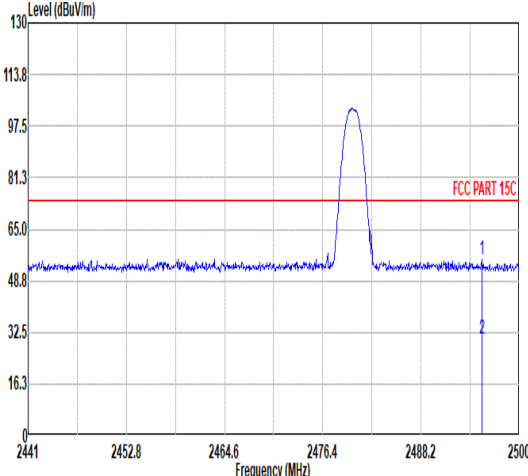
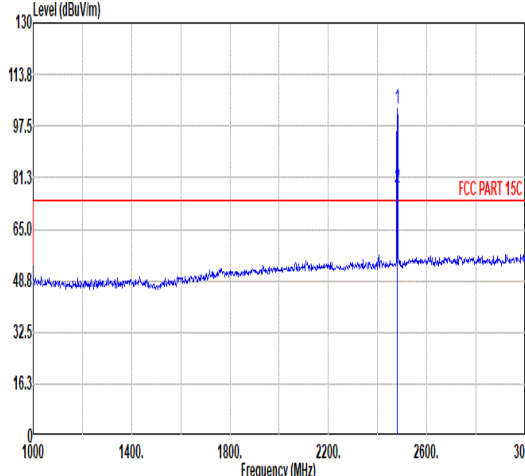


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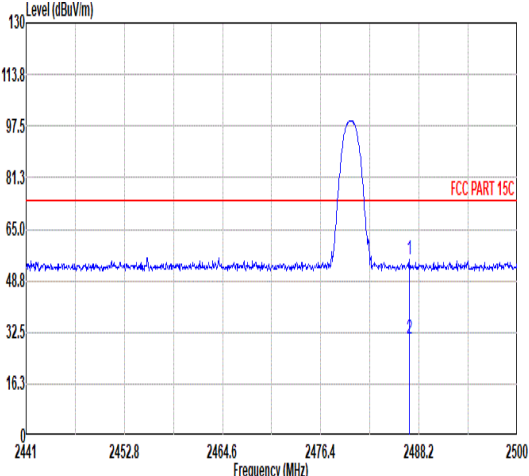
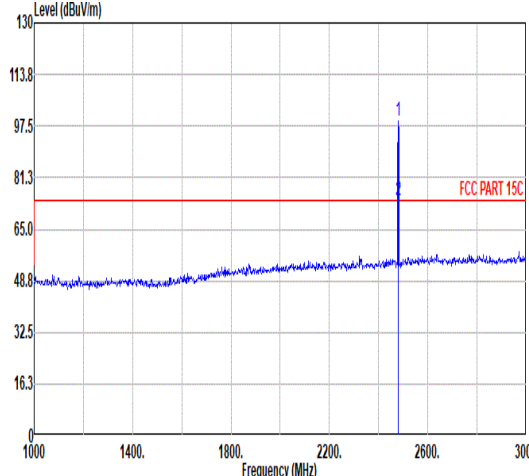


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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																								
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1	4882.00	41.74	74.00	-32.26	59.09	34.34	9.53	61.22	0.00	--- PEAK																																																								
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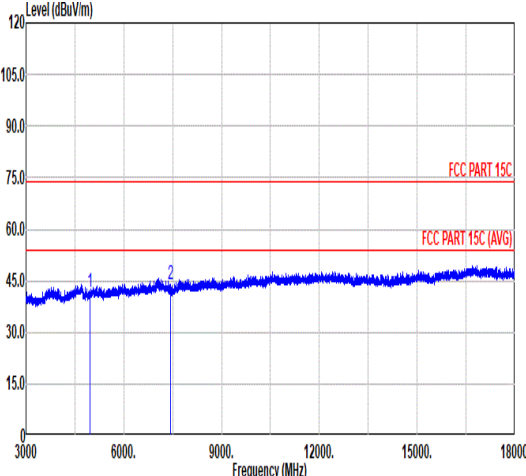
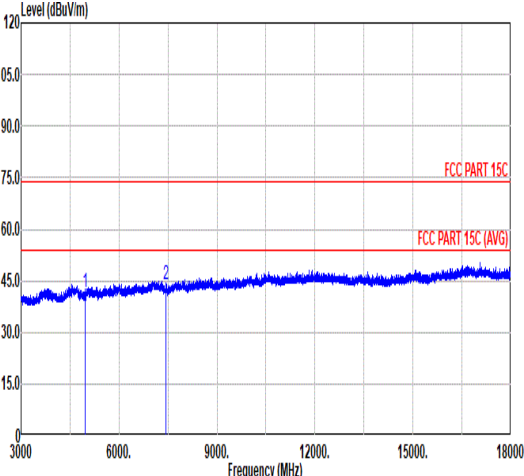


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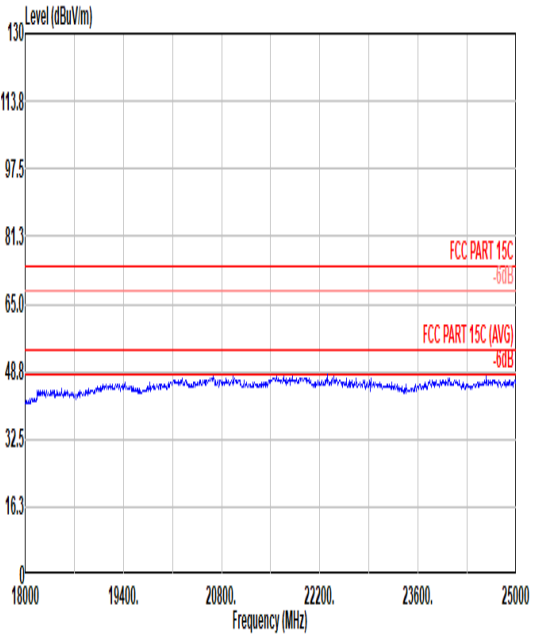
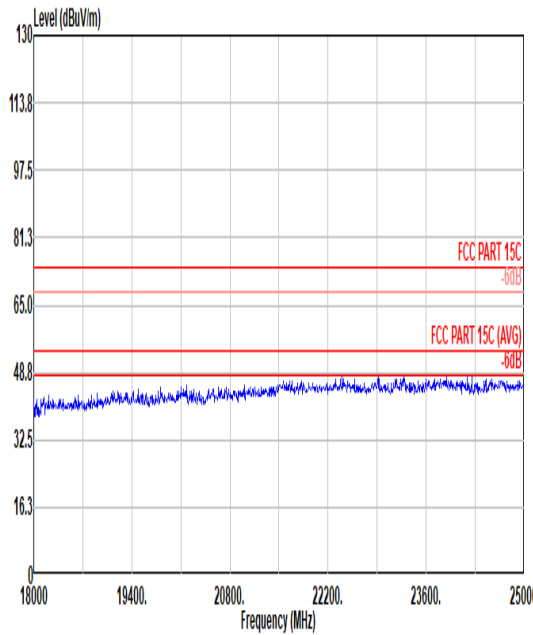


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1	2487.08	55.23	74.00	-18.77	42.76	31.97	6.74	32.24	6.00	284	0 PEAK																																																																																																																		
2	2487.08	30.44	54.00	-23.56	17.97	31.97	6.74	32.24	6.00	284	0 AVERAGE																																																																																																																		
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1	2480.00	99.08	-----	-----	86.62	31.96	6.73	32.23	6.00	284	0 PEAK																																																																																																																		
2	2480.00	74.29	-----	-----	61.83	31.96	6.73	32.23	6.00	284	0 AVERAGE																																																																																																																		



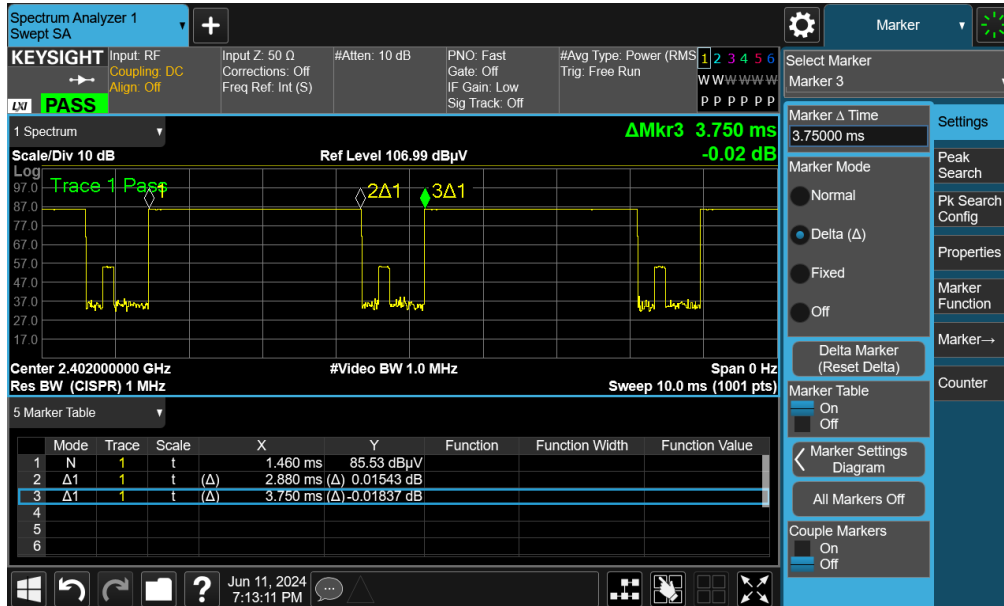
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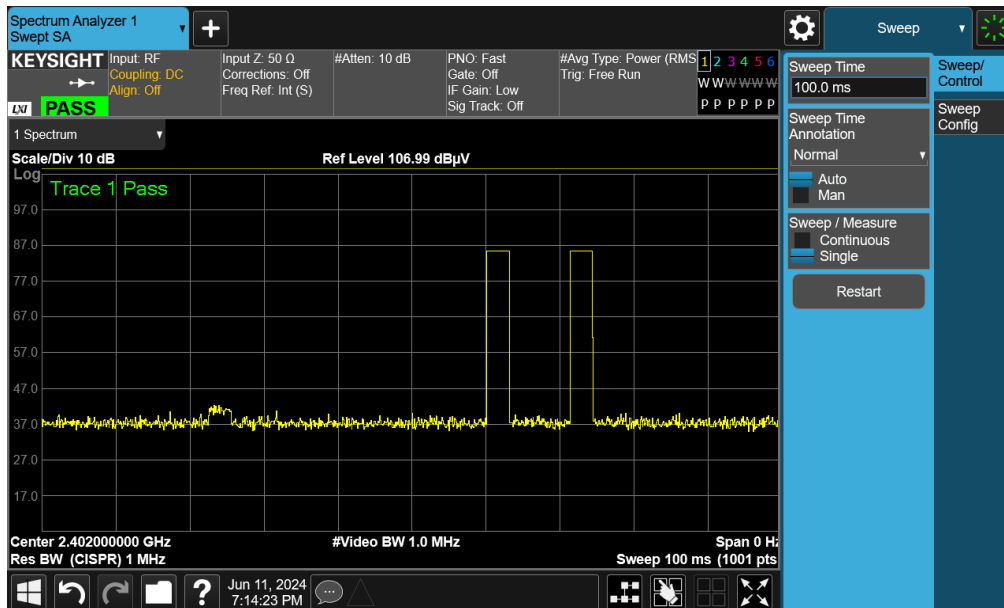
Mode	2	
	18G-25G	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	7	
Pol.	Horizontal	Vertical
Peak Avg		

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.