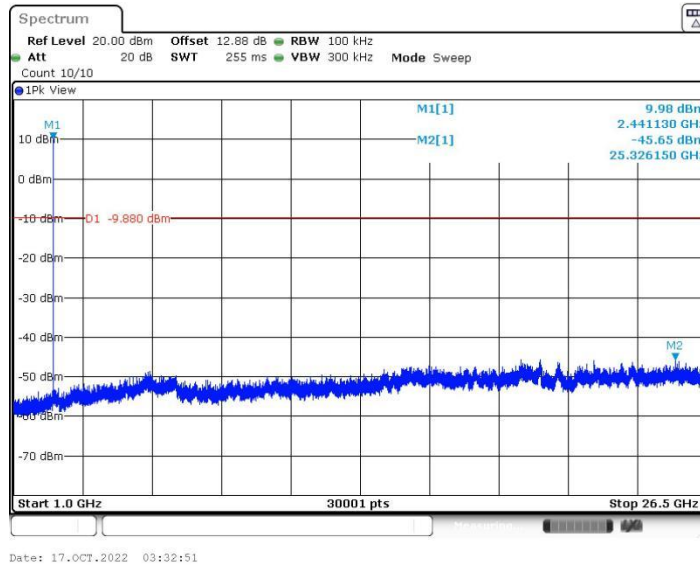
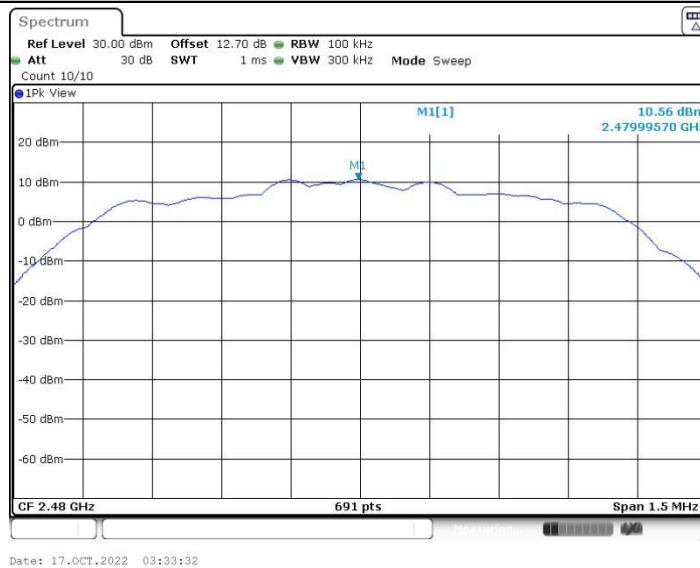


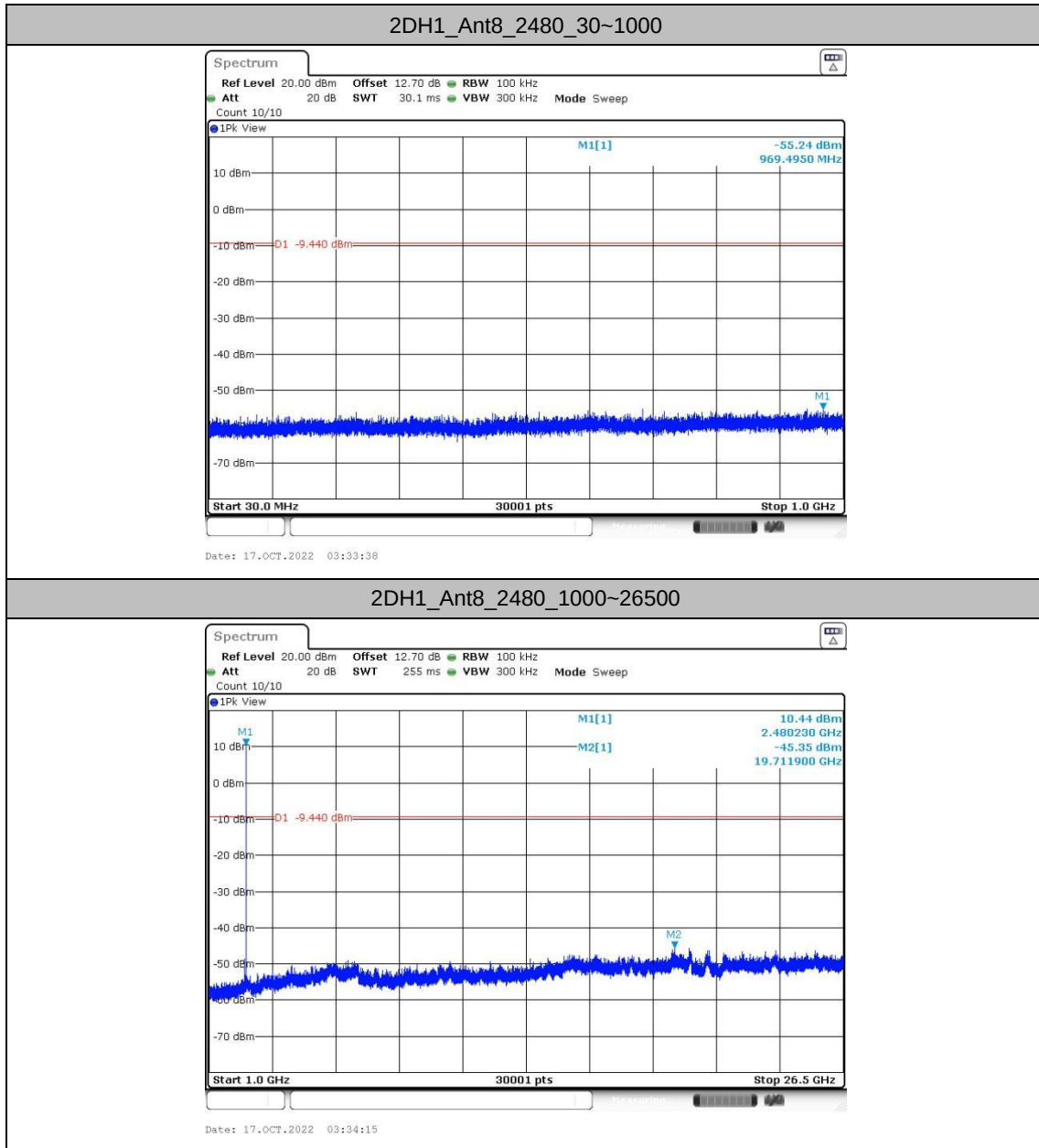


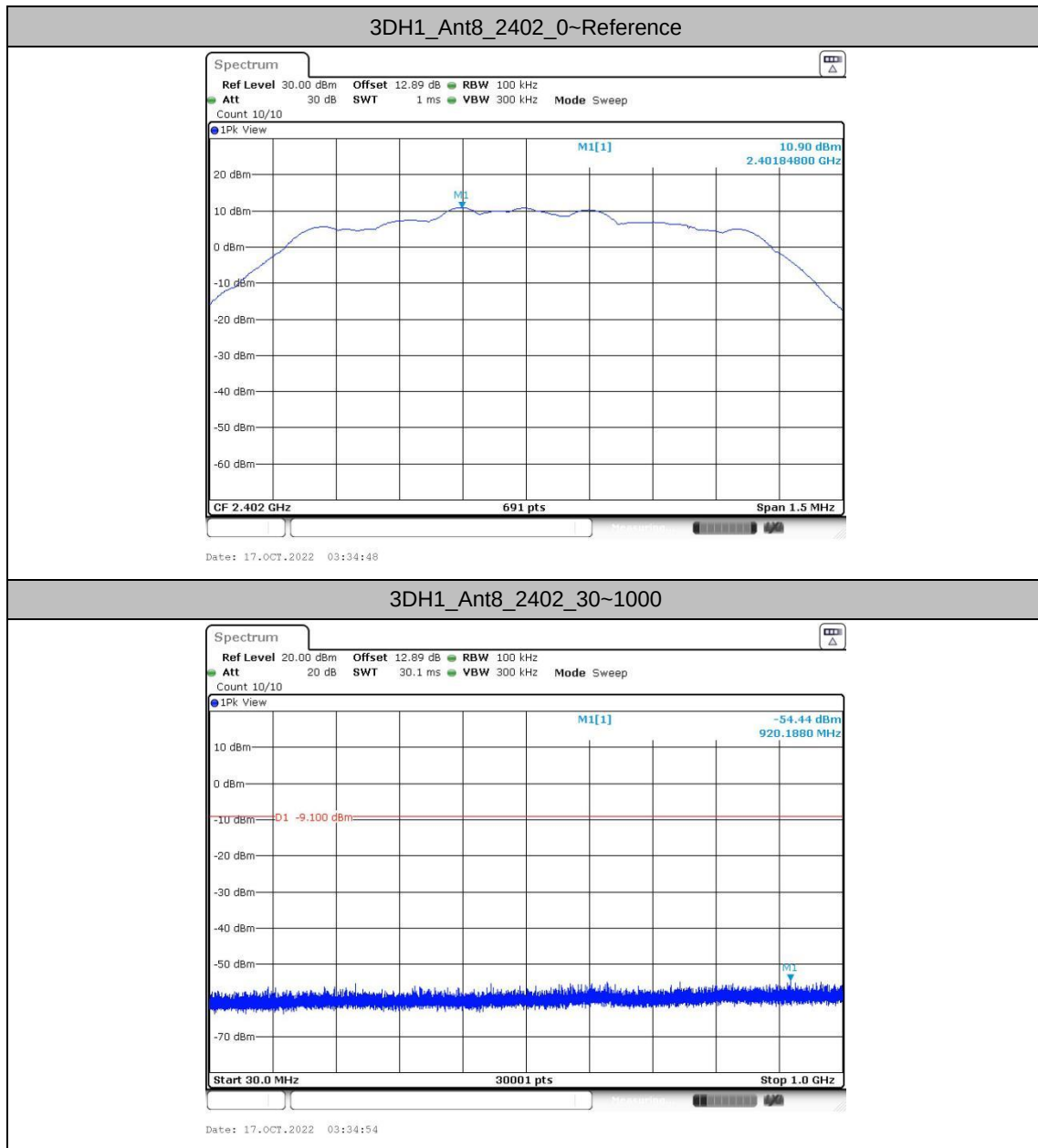
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2DH1_Ant8_2480_0~Reference

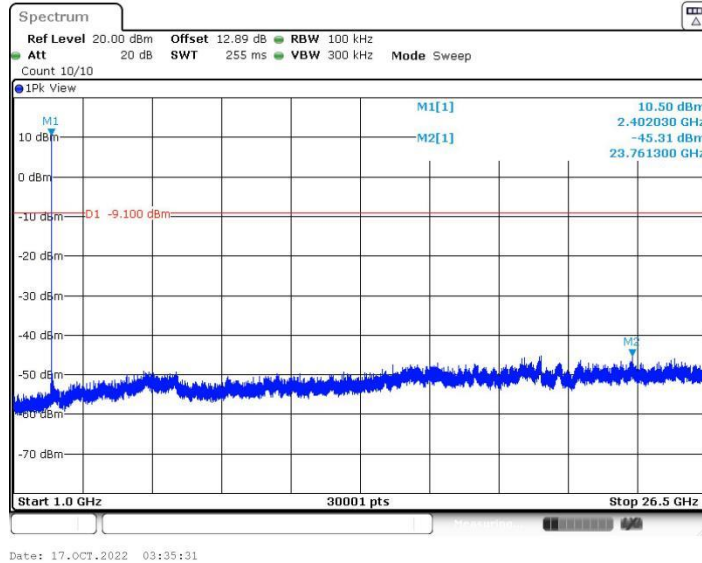




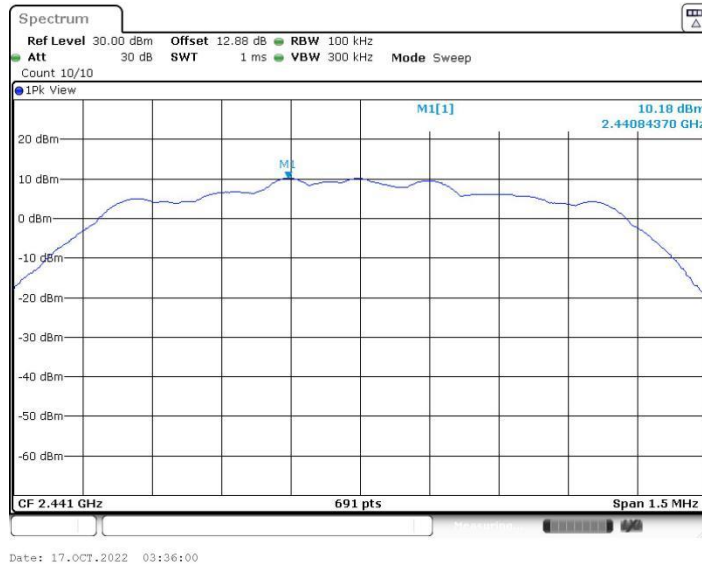


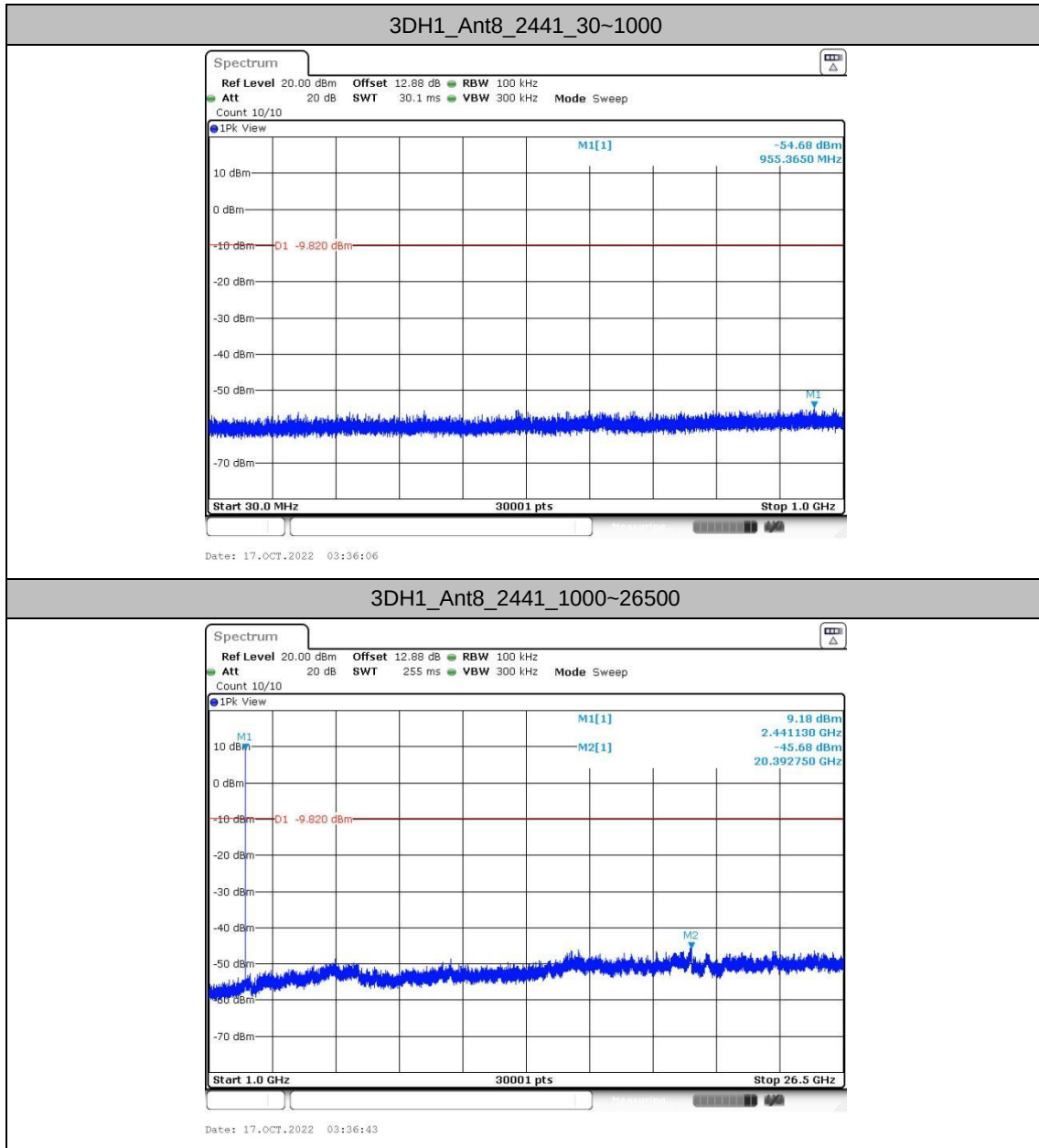


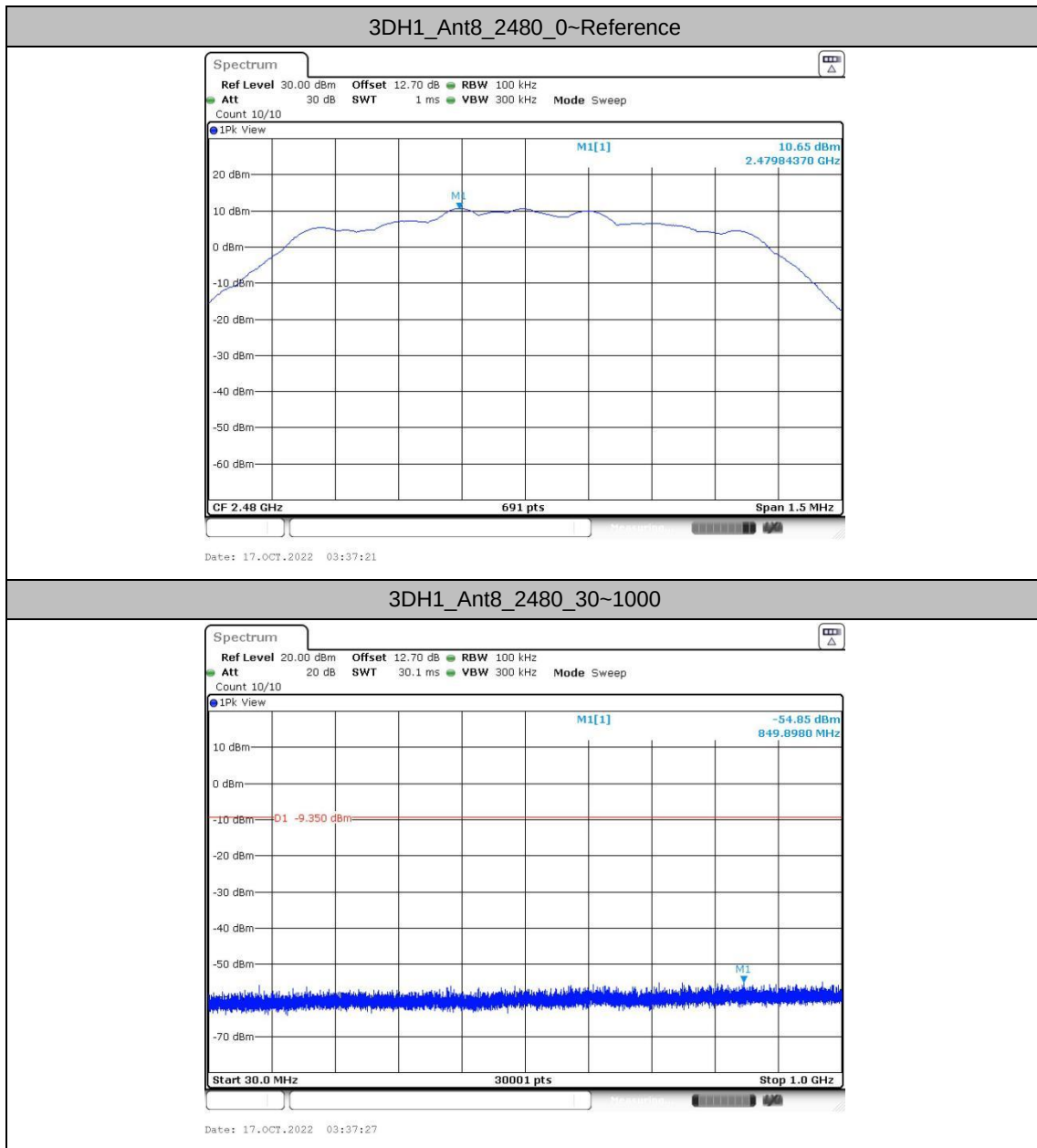
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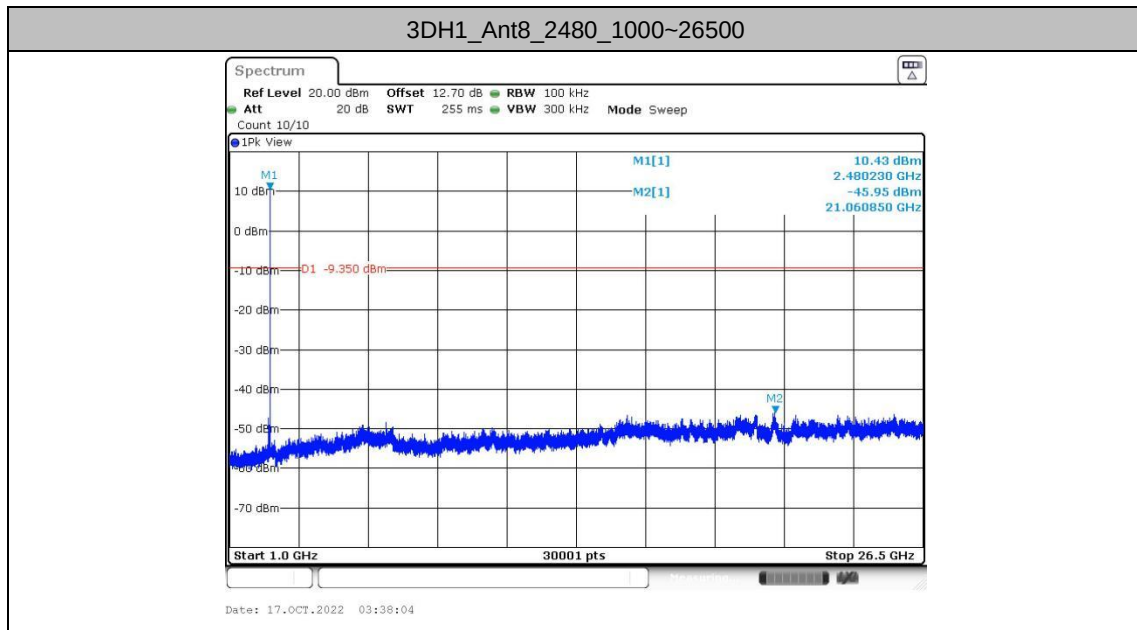


3DH1_Ant8_2441_0~Reference





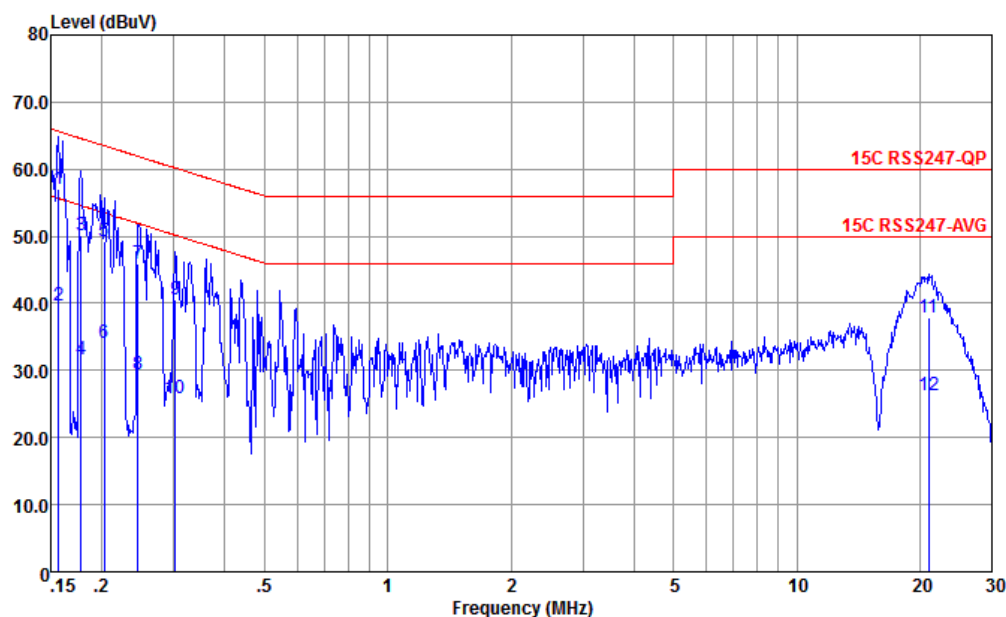






Appendix B. AC Conducted Emission Test Results

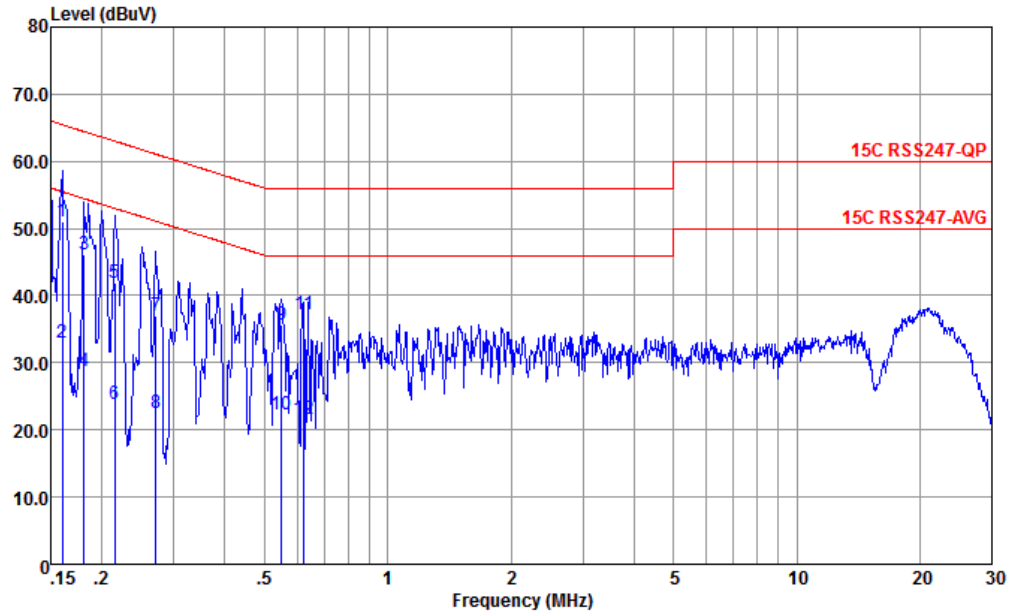
Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



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

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.156	57.09	-8.56	65.65	46.60	0.06	10.43	QP
2	0.156	39.69	-15.96	55.65	29.20	0.06	10.43	Average
3	0.178	50.06	-14.53	64.59	39.60	0.04	10.42	QP
4	0.178	31.66	-22.93	54.59	21.20	0.04	10.42	Average
5	0.203	49.34	-14.15	63.49	38.90	0.02	10.42	QP
6	0.203	34.04	-19.45	53.49	23.60	0.02	10.42	Average
7	0.246	45.93	-15.98	61.91	35.51	0.04	10.38	QP
8	0.246	29.33	-22.58	51.91	18.91	0.04	10.38	Average
9	0.302	40.61	-19.58	60.19	30.20	0.06	10.35	QP
10	0.302	25.91	-24.28	50.19	15.50	0.06	10.35	Average
11	21.035	37.84	-22.16	60.00	26.79	-0.32	11.37	QP
12	21.035	26.34	-23.66	50.00	15.29	-0.32	11.37	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-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 *	0.160	50.96	-14.51	65.47	40.50	0.03	10.43	QP
2	0.160	33.06	-22.41	55.47	22.60	0.03	10.43	Average
3	0.181	46.07	-18.39	64.46	35.61	0.04	10.42	QP
4	0.181	28.67	-25.79	54.46	18.21	0.04	10.42	Average
5	0.215	41.94	-21.07	63.01	31.50	0.03	10.41	QP
6	0.215	23.94	-29.07	53.01	13.50	0.03	10.41	Average
7	0.272	36.94	-24.13	61.07	26.60	-0.03	10.37	QP
8	0.272	22.54	-28.53	51.07	12.20	-0.03	10.37	Average
9	0.549	35.61	-20.39	56.00	25.49	-0.08	10.20	QP
10	0.549	22.31	-23.69	46.00	12.19	-0.08	10.20	Average
11	0.624	37.29	-18.71	56.00	27.20	-0.09	10.18	QP
12	0.624	21.69	-24.31	46.00	11.60	-0.09	10.18	Average

Note:

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



Radiated Spurious Emission Test Data

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

Radiated Spurious Emission Test Modes

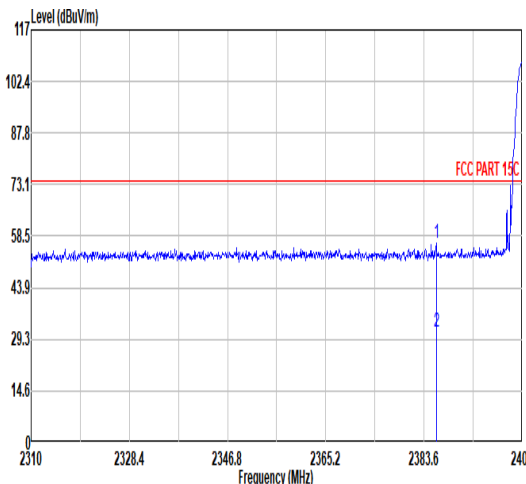
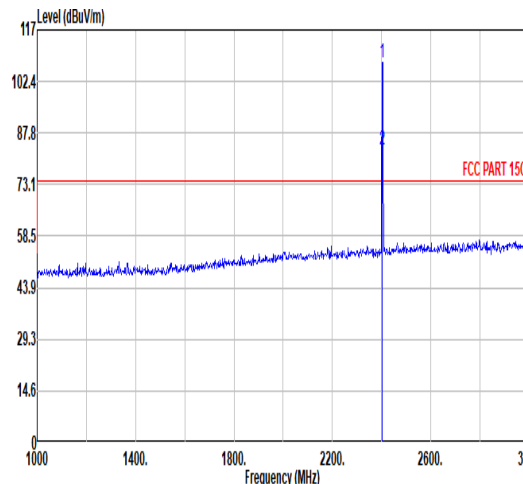
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	8	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	8	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	8	Bluetooth BR_GFSK	78	2480	1Mbps	-	-



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	00	2385.90	56.35	74.00	-17.65	H	PEAK	Pass	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	43.21	74.00	-30.79	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.66	60.65	74.00	-13.35	H	PEAK	Pass	Band Edge

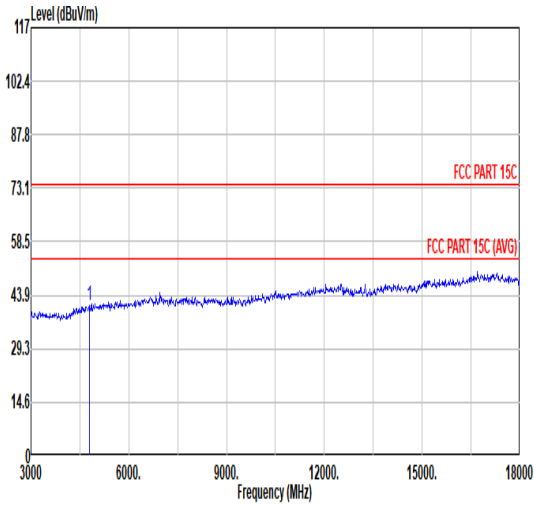
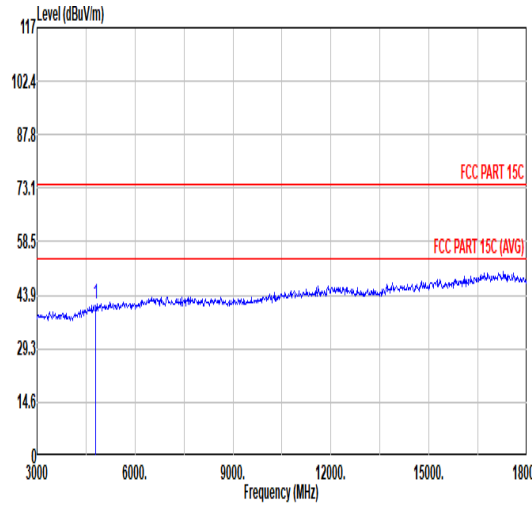


Mode	1																																																																																																																													
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Pol.	Horizontal						Fundamental																																																																																																																							
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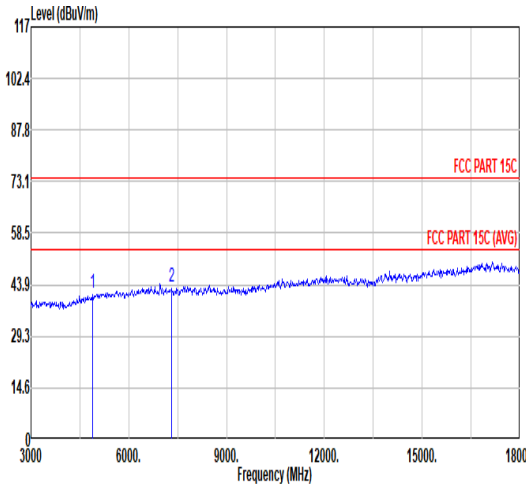
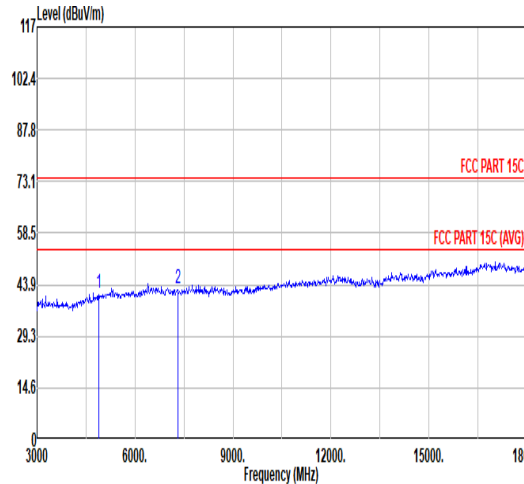


Mode	1																																																																																																																								
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Peak	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a blue signal line with a peak at 2402 MHz. A red horizontal line indicates the FCC PART 15C limit at 73.1 dBuV/m. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 2310 to 2402 MHz. <table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr><tr><td>1</td><td>2336.40</td><td>55.93</td><td>74.00</td><td>-18.07</td><td>43.89</td><td>31.86</td><td>7.08</td><td>32.90</td><td>6.00</td><td>100</td><td>10 PEAK</td></tr><tr><td>2</td><td>2336.40</td><td>31.09</td><td>54.00</td><td>-22.91</td><td>19.05</td><td>31.86</td><td>7.08</td><td>32.90</td><td>6.00</td><td>100</td><td>10 AVERAGE</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2336.40	55.93	74.00	-18.07	43.89	31.86	7.08	32.90	6.00	100	10 PEAK	2	2336.40	31.09	54.00	-22.91	19.05	31.86	7.08	32.90	6.00	100	10 AVERAGE	Fundamental Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a blue signal line with a peak at 2402 MHz. A red horizontal line indicates the FCC PART 15C limit at 73.1 dBuV/m. The y-axis ranges from 14.6 to 117 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. <table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>98.33</td><td>-----</td><td>-----</td><td>85.98</td><td>32.00</td><td>7.19</td><td>32.84</td><td>6.00</td><td>100</td><td>10 PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>73.49</td><td>-----</td><td>-----</td><td>61.14</td><td>32.00</td><td>7.19</td><td>32.84</td><td>6.00</td><td>100</td><td>10 AVERAGE</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	98.33	-----	-----	85.98	32.00	7.19	32.84	6.00	100	10 PEAK	2	2402.00	73.49	-----	-----	61.14	32.00	7.19	32.84	6.00	100	10 AVERAGE
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																											
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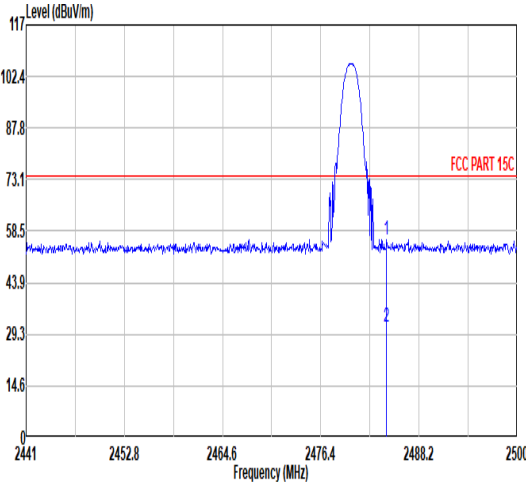
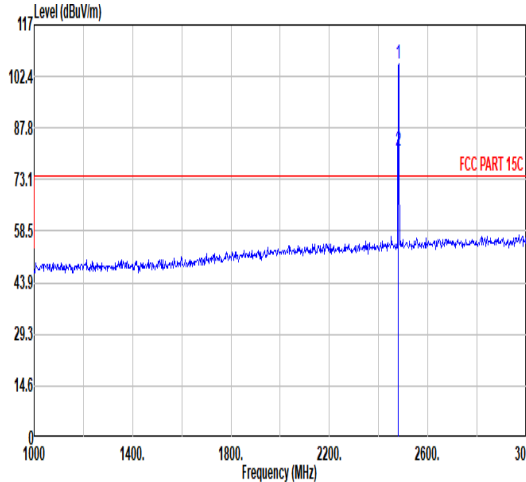


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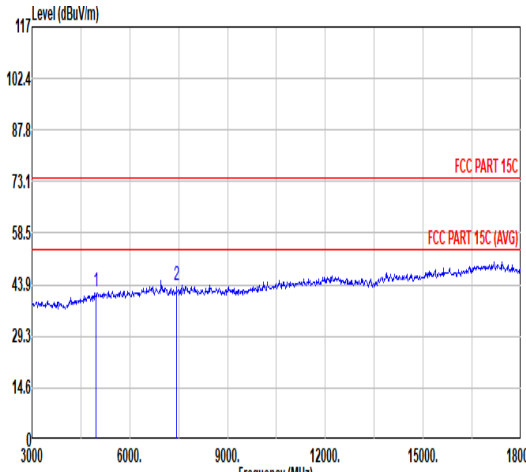
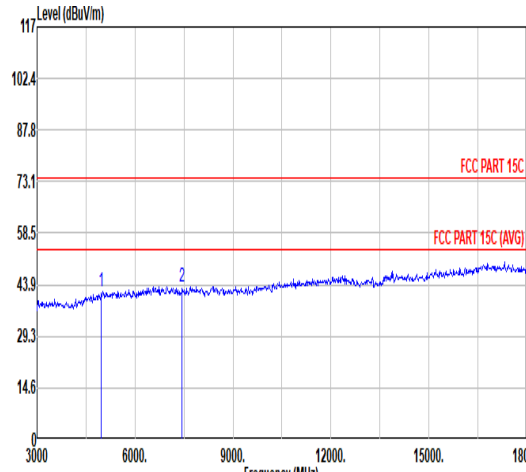
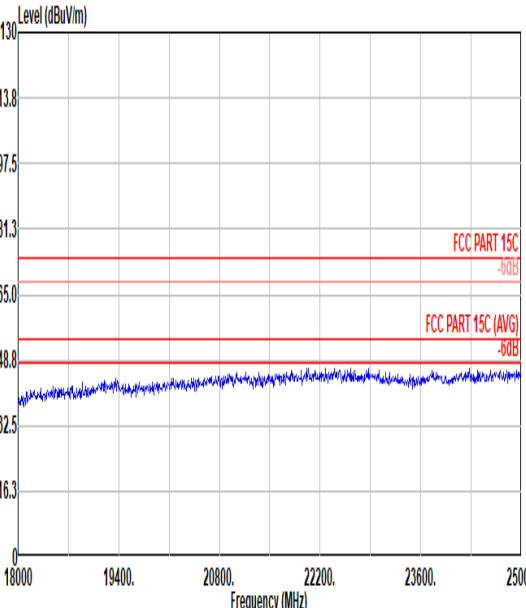
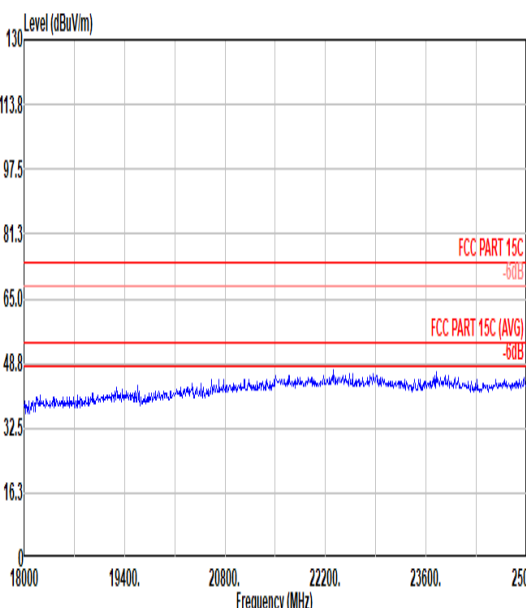


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Peak	Horizontal Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2480.00 MHz. A red line indicates the FCC PART 15C limit at 73.1 dBuV/m. The peak is labeled with '1' and '2'. <table><thead><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2483.66</td><td>60.65</td><td>74.00</td><td>-13.35</td><td>47.98</td><td>32.16</td><td>7.33</td><td>32.82</td><td>6.00</td><td>100</td><td>272 PEAK</td></tr><tr><td>2</td><td>2483.66</td><td>35.81</td><td>54.00</td><td>-18.19</td><td>23.14</td><td>32.16</td><td>7.33</td><td>32.82</td><td>6.00</td><td>100</td><td>272 AVERAGE</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2483.66	60.65	74.00	-13.35	47.98	32.16	7.33	32.82	6.00	100	272 PEAK	2	2483.66	35.81	54.00	-18.19	23.14	32.16	7.33	32.82	6.00	100	272 AVERAGE	Fundamental Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2480.00 MHz. A red line indicates the FCC PART 15C limit at 73.1 dBuV/m. The peak is labeled with '1' and '2'. <table><thead><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>105.63</td><td>-----</td><td>-----</td><td>92.97</td><td>32.15</td><td>7.33</td><td>32.82</td><td>6.00</td><td>100</td><td>272 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>80.79</td><td>-----</td><td>-----</td><td>68.13</td><td>32.15</td><td>7.33</td><td>32.82</td><td>6.00</td><td>100</td><td>272 AVERAGE</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	105.63	-----	-----	92.97	32.15	7.33	32.82	6.00	100	272 PEAK	2	2480.00	80.79	-----	-----	68.13	32.15	7.33	32.82	6.00	100	272 AVERAGE
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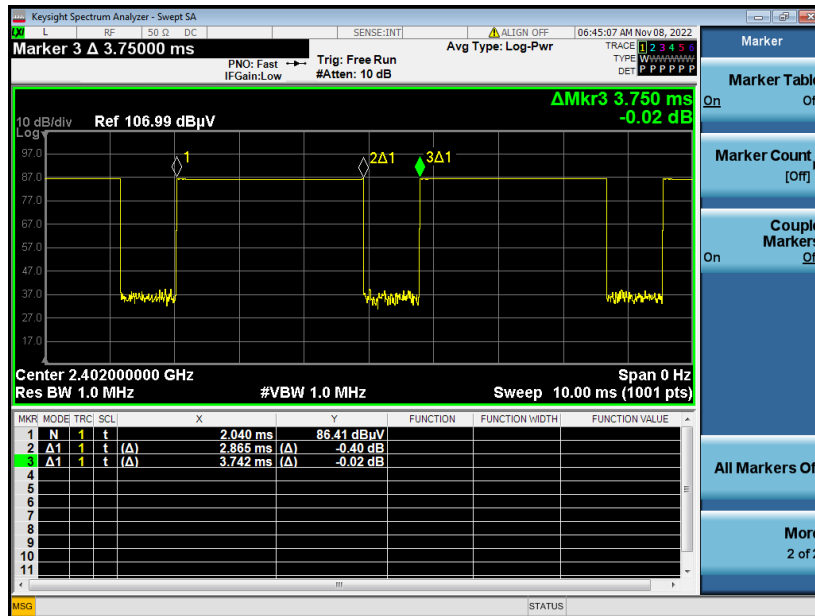
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2	7440.00	43.08	74.00	-30.92	58.64	35.42	12.93	63.91	0.00	100	360	PEAK																																																																																																																		
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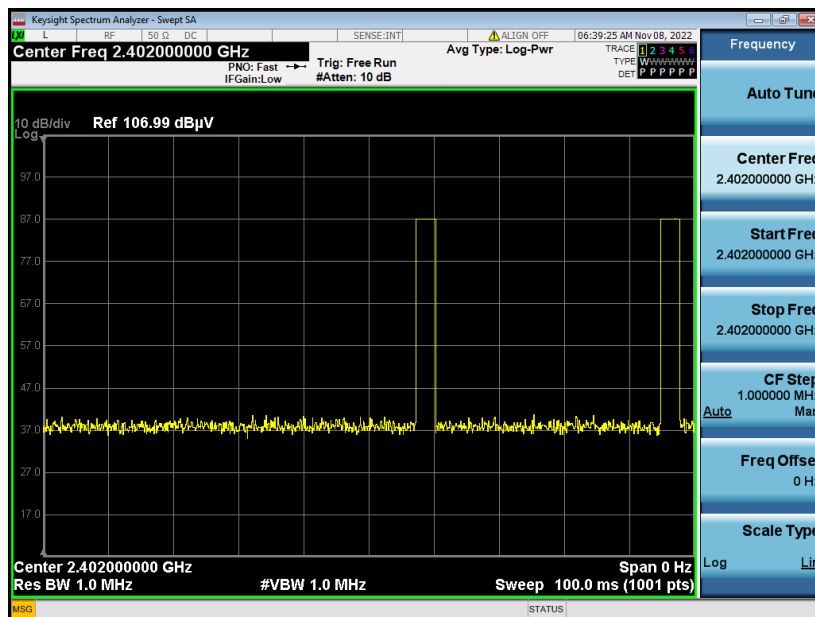
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.865 / 100 = 5.73 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.84 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.