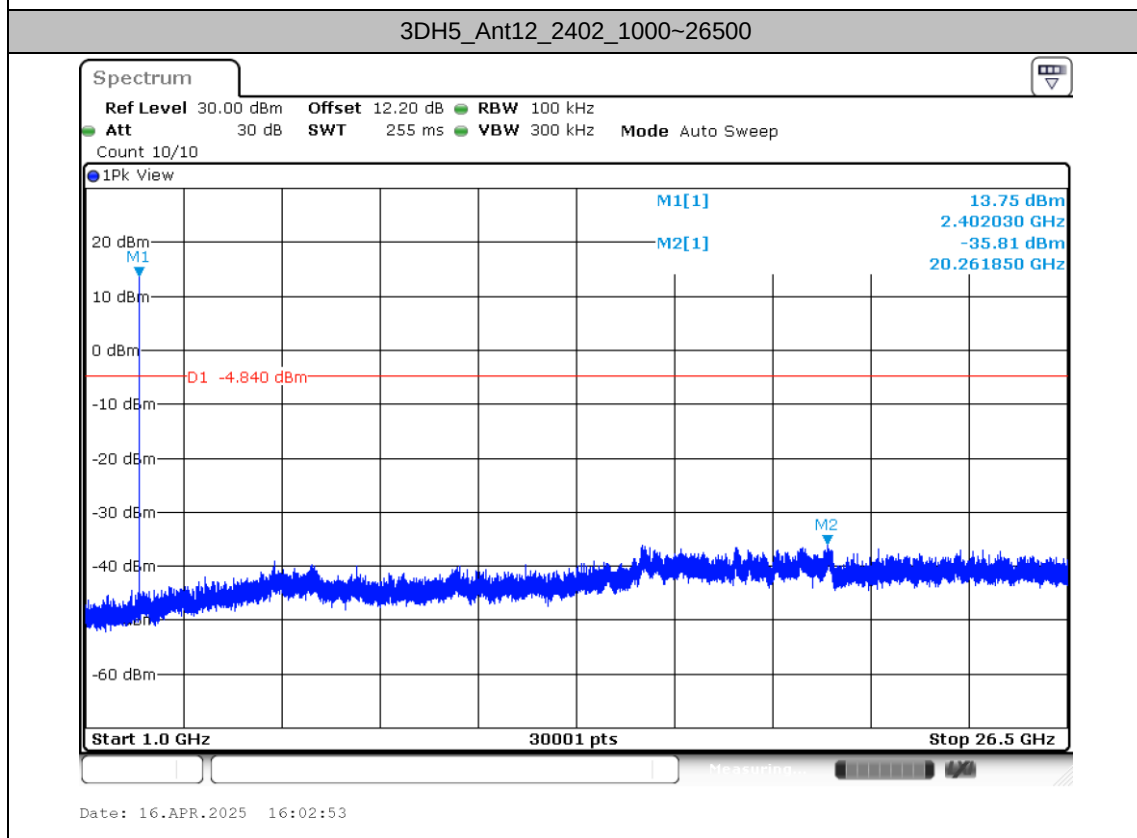
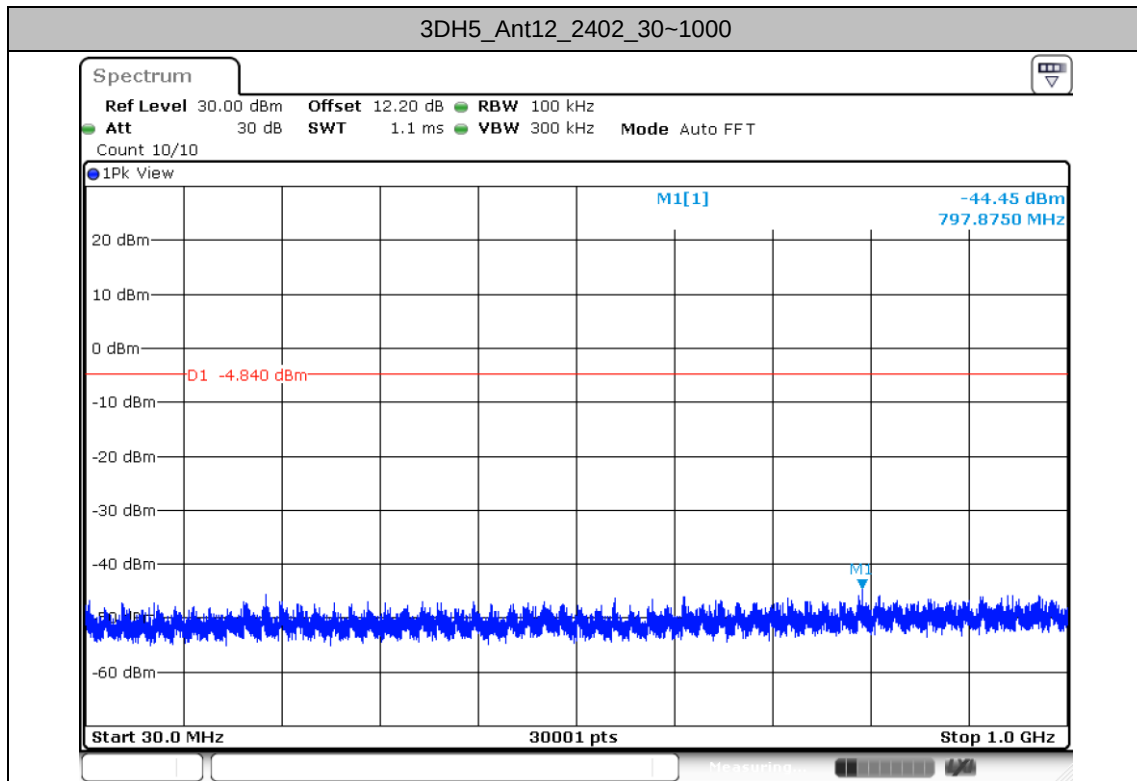
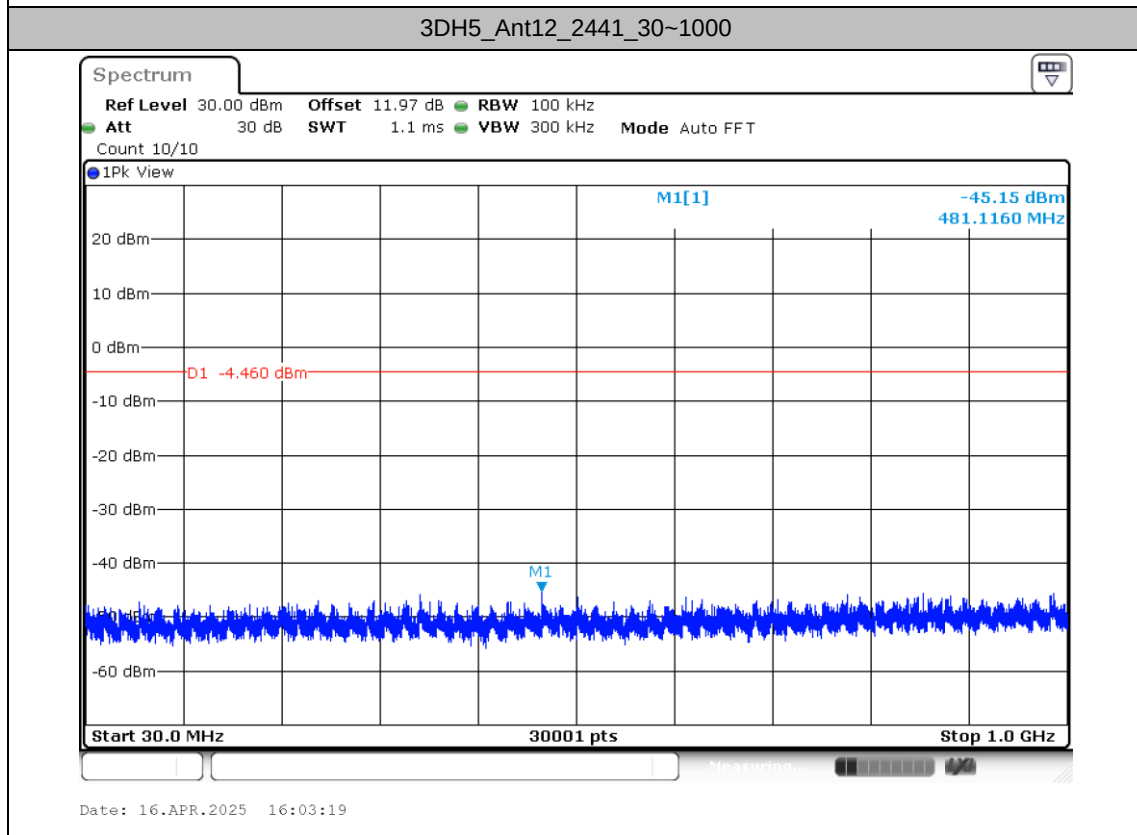
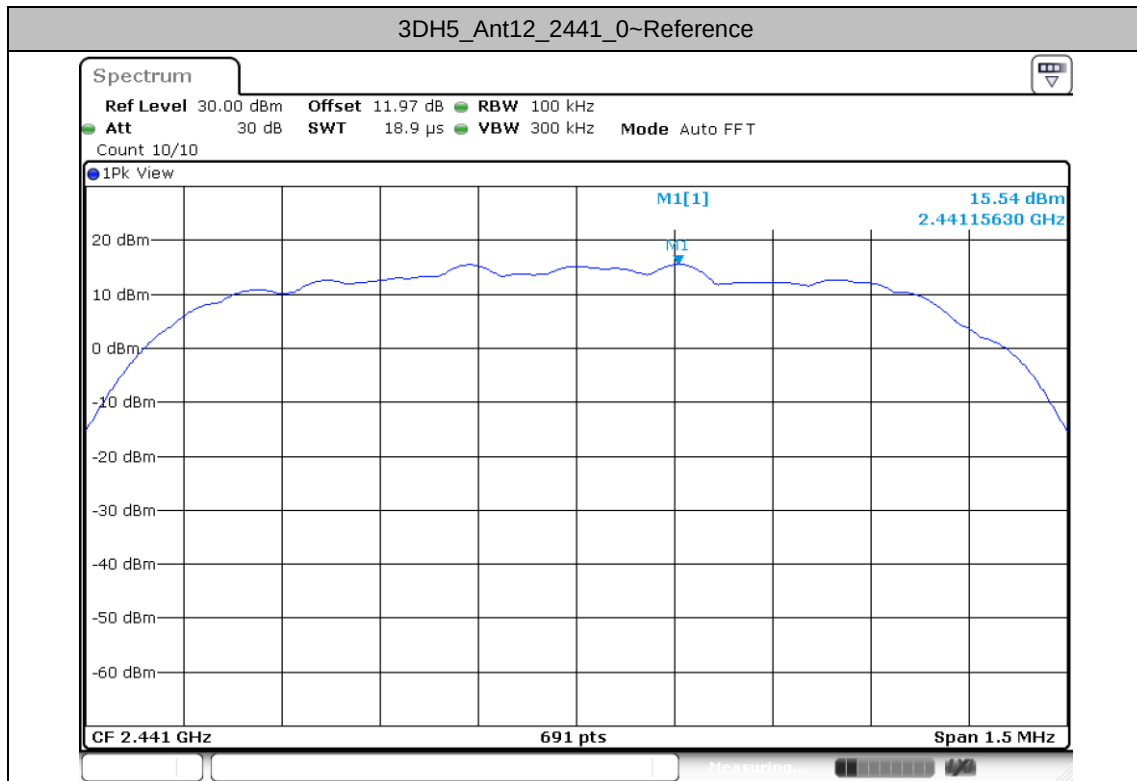
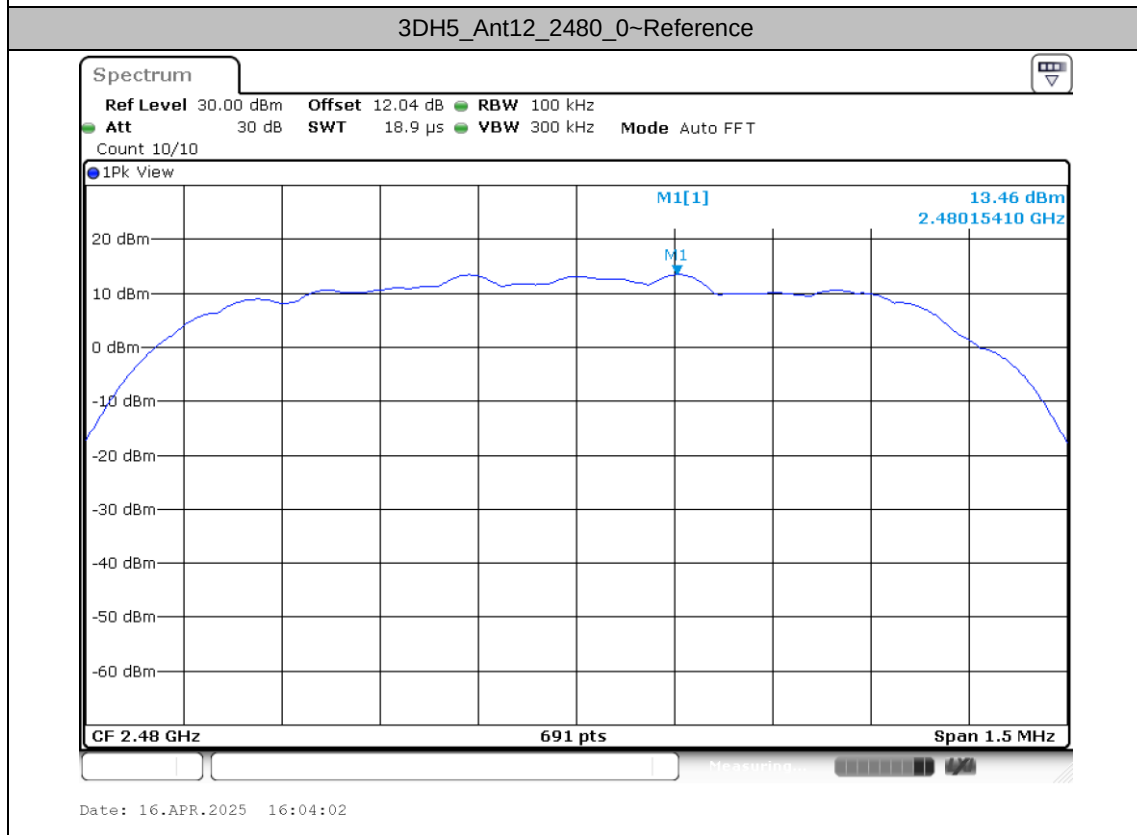
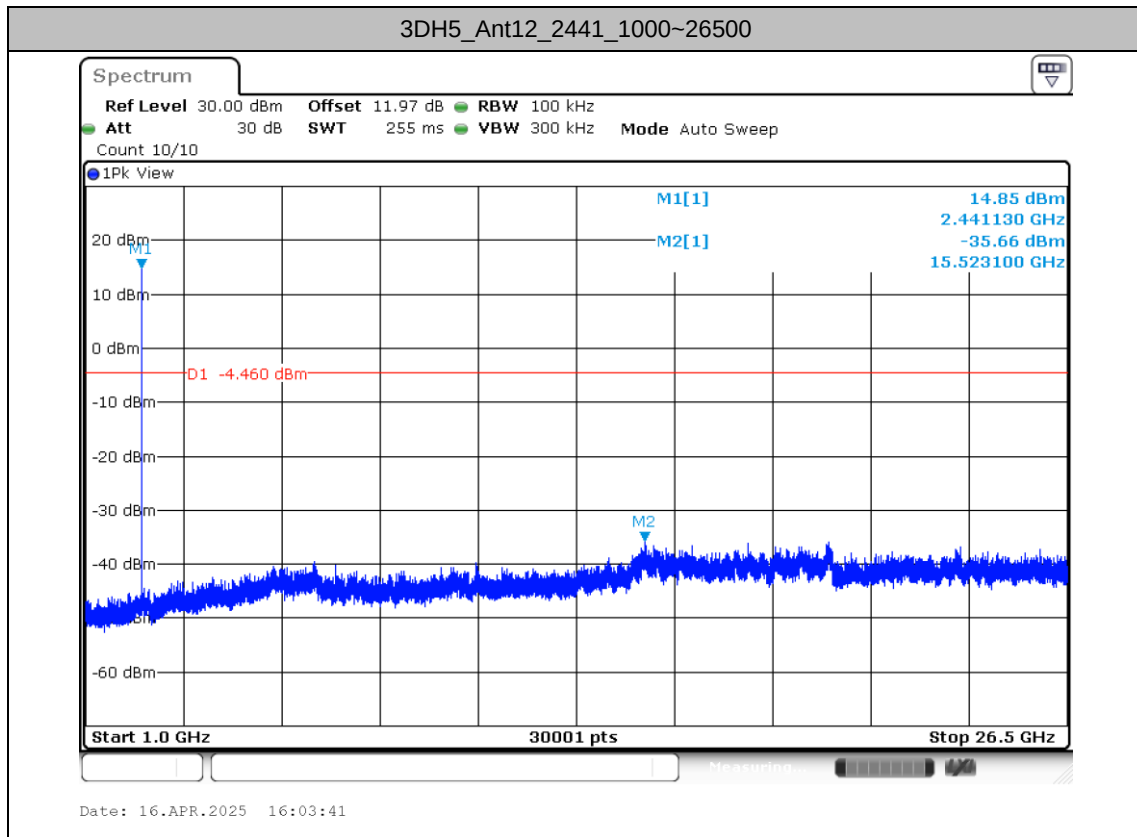
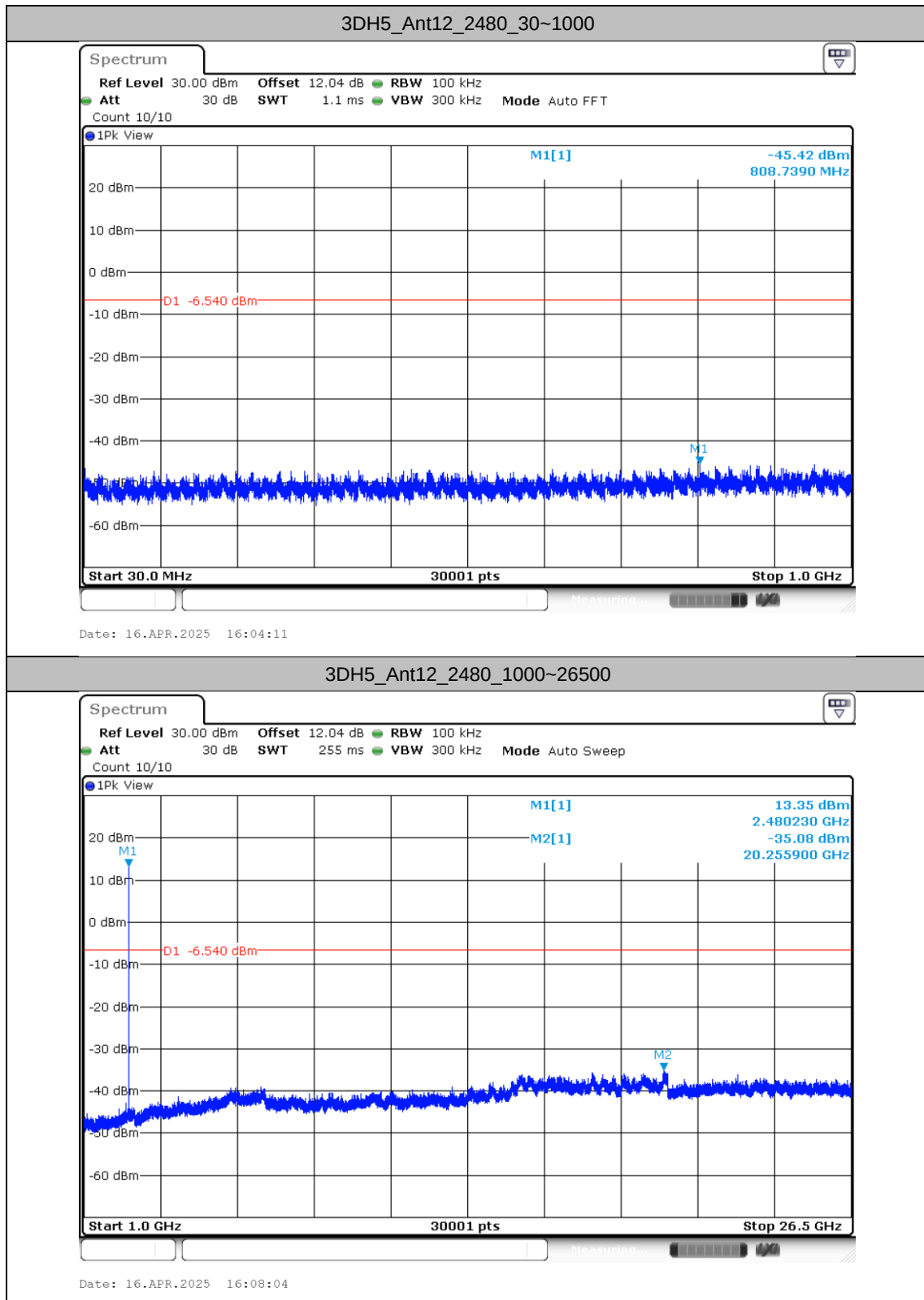




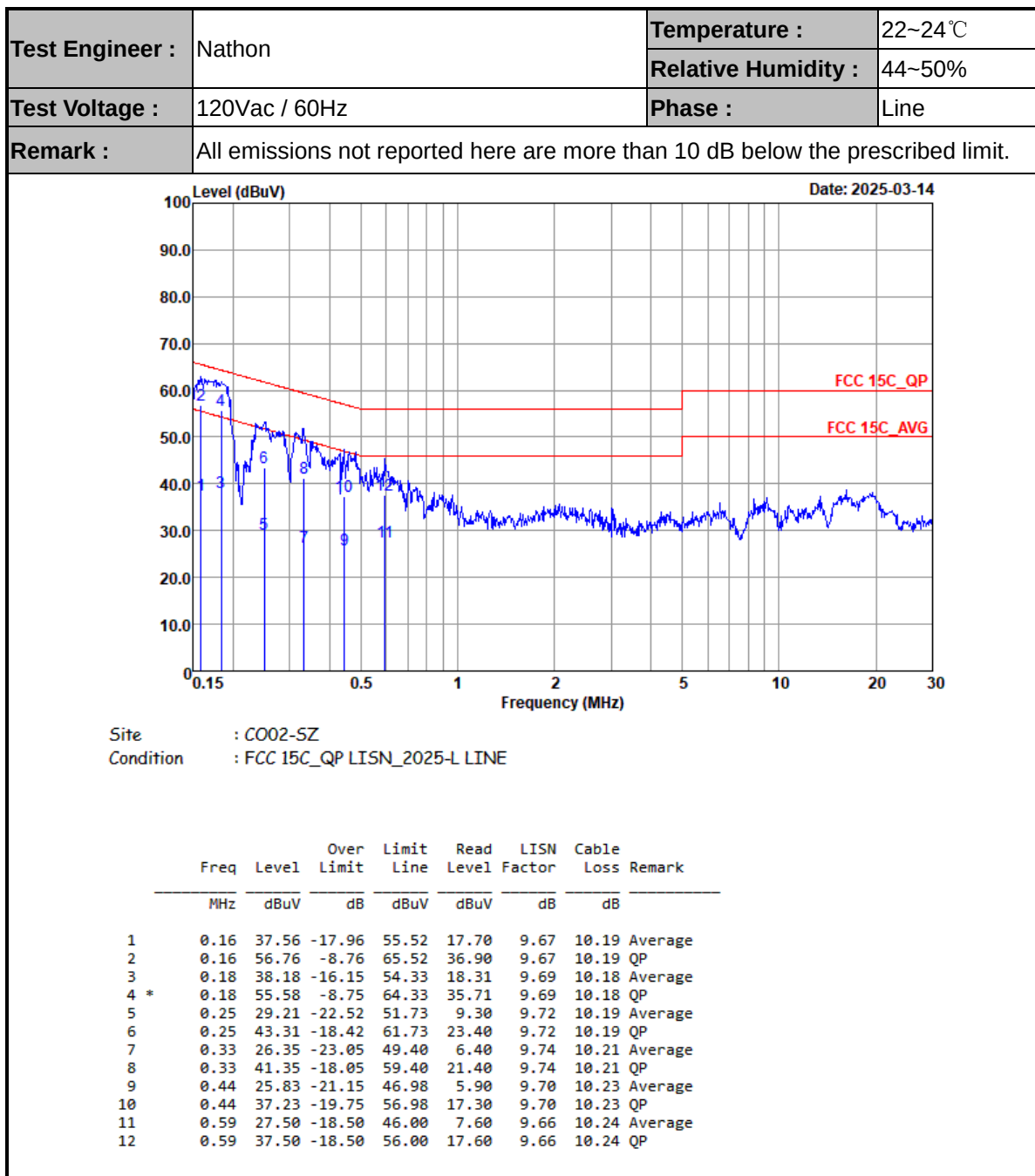






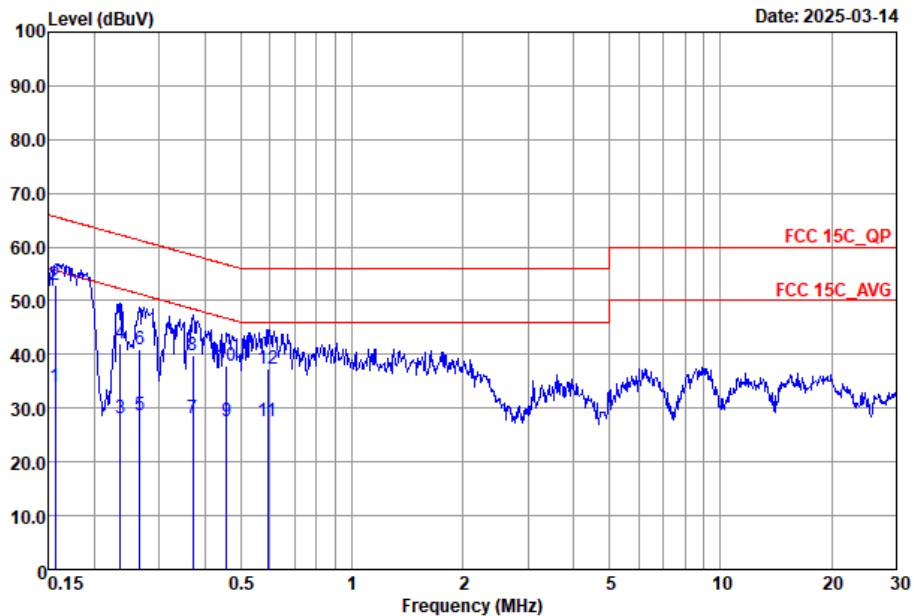


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Nathon	Temperature :	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15C_QP LISN_2025-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.16	34.00	-21.65	55.65	14.19	9.62	10.19	Average
2 *	0.16	52.80	-12.85	65.65	32.99	9.62	10.19	QP
3	0.24	28.21	-24.05	52.26	8.40	9.62	10.19	Average
4	0.24	42.11	-20.15	62.26	22.30	9.62	10.19	QP
5	0.27	28.64	-22.61	51.25	8.80	9.64	10.20	Average
6	0.27	40.84	-20.41	61.25	21.00	9.64	10.20	QP
7	0.37	28.22	-20.25	48.47	8.30	9.70	10.22	Average
8	0.37	39.92	-18.55	58.47	20.00	9.70	10.22	QP
9	0.46	27.62	-19.14	46.76	7.41	9.98	10.23	Average
10	0.46	37.82	-18.94	56.76	17.61	9.98	10.23	QP
11	0.59	27.47	-18.53	46.00	7.59	9.64	10.24	Average
12	0.59	37.27	-18.73	56.00	17.39	9.64	10.24	QP

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 Engineer :	Wenbo Xiao	Relative Humidity :	50%
		Temperature :	20°C~22°C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	12	Bluetooth BR_GFSK	00	2402	1DH5	-	-
Mode 2	2400-2483.5	12	Bluetooth BR_GFSK	39	2441	1DH5	-	-
Mode 3	2400-2483.5	12	Bluetooth BR_GFSK	78	2480	1DH5	-	-
Mode 4	2400-2483.5	12	Bluetooth BR_GFSK-LF	78	2480	1DH5	-	LF

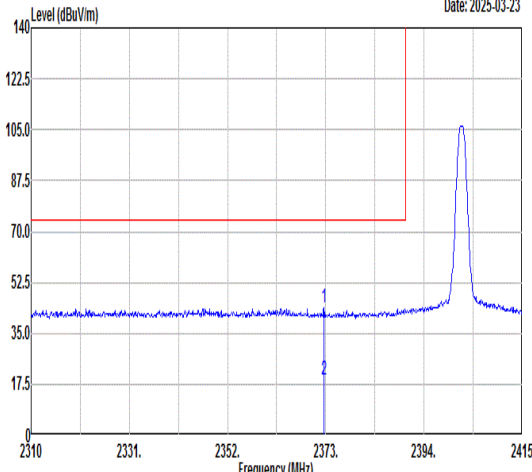
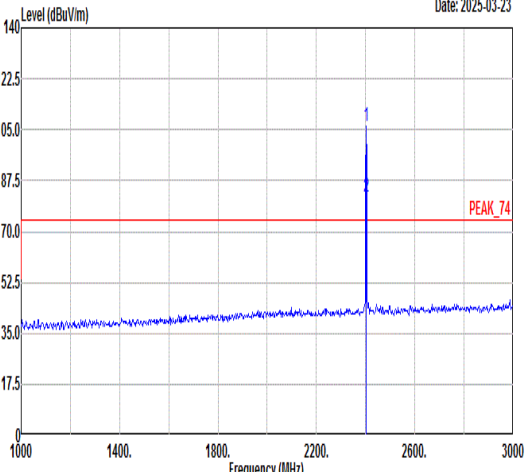
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2381.51	43.82	74.00	-30.18	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	43.71	74.00	-30.29	V	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	44.94	74.00	-29.06	V	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2484.25	45.73	74.00	-28.27	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	45.88	74.00	-28.12	V	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK-LF	78	32.91	26.55	40.00	-13.45	V	Peak	Pass	LF



Mode	1																																																																																																									
	Band Edge																																																																																																									
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																									
ANT	12																																																																																																									
Pol.	Horizontal	Fundamental																																																																																																								
Peak	Level (dBuV/m) Date: 2025-03-23 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</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>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2381.51</td><td>43.82</td><td>74.00</td><td>-30.18</td><td>41.84</td><td>30.78</td><td>5.35</td><td>34.15</td><td>103</td><td>241 PEAK</td></tr><tr><td>2</td><td>2381.51</td><td>19.03</td><td>54.00</td><td>-34.97</td><td>17.05</td><td>30.78</td><td>5.35</td><td>34.15</td><td>103</td><td>241 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2381.51	43.82	74.00	-30.18	41.84	30.78	5.35	34.15	103	241 PEAK	2	2381.51	19.03	54.00	-34.97	17.05	30.78	5.35	34.15	103	241 AVERAGE	Level (dBuV/m) Date: 2025-03-23 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</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>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>97.88</td><td>-----</td><td>-----</td><td>95.87</td><td>30.78</td><td>5.37</td><td>34.14</td><td>103</td><td>241 PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>73.09</td><td>-----</td><td>-----</td><td>71.08</td><td>30.78</td><td>5.37</td><td>34.14</td><td>103</td><td>241 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	97.88	-----	-----	95.87	30.78	5.37	34.14	103	241 PEAK	2	2402.00	73.09	-----	-----	71.08	30.78	5.37	34.14	103	241 AVERAGE
		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																																	
	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																																																																																
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																	
1	2381.51	43.82	74.00	-30.18	41.84	30.78	5.35	34.15	103	241 PEAK																																																																																																
2	2381.51	19.03	54.00	-34.97	17.05	30.78	5.35	34.15	103	241 AVERAGE																																																																																																
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																																		
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																																																																																	
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																	
1	2402.00	97.88	-----	-----	95.87	30.78	5.37	34.14	103	241 PEAK																																																																																																
2	2402.00	73.09	-----	-----	71.08	30.78	5.37	34.14	103	241 AVERAGE																																																																																																



Mode	1																																																																																																									
	Band Edge																																																																																																									
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																									
ANT	12																																																																																																									
Pol.	Vertical	Fundamental																																																																																																								
Peak	Level (dBuV/m) Date: 2025-03-23  Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</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>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2372.58</td><td>43.63</td><td>74.00</td><td>-30.37</td><td>41.67</td><td>30.77</td><td>5.34</td><td>34.15</td><td>117</td><td>7 PEAK</td></tr><tr><td>2</td><td>2372.58</td><td>18.84</td><td>54.00</td><td>-35.16</td><td>16.88</td><td>30.77</td><td>5.34</td><td>34.15</td><td>117</td><td>7 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2372.58	43.63	74.00	-30.37	41.67	30.77	5.34	34.15	117	7 PEAK	2	2372.58	18.84	54.00	-35.16	16.88	30.77	5.34	34.15	117	7 AVERAGE	Level (dBuV/m) Date: 2025-03-23  Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</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>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>106.42</td><td>-----</td><td>-----</td><td>104.41</td><td>30.78</td><td>5.37</td><td>34.14</td><td>117</td><td>7 PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>81.63</td><td>-----</td><td>-----</td><td>79.62</td><td>30.78</td><td>5.37</td><td>34.14</td><td>117</td><td>7 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	106.42	-----	-----	104.41	30.78	5.37	34.14	117	7 PEAK	2	2402.00	81.63	-----	-----	79.62	30.78	5.37	34.14	117	7 AVERAGE
		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																																	
	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																																																																																
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																	
1	2372.58	43.63	74.00	-30.37	41.67	30.77	5.34	34.15	117	7 PEAK																																																																																																
2	2372.58	18.84	54.00	-35.16	16.88	30.77	5.34	34.15	117	7 AVERAGE																																																																																																
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																																		
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																																																																																	
	MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																	
1	2402.00	106.42	-----	-----	104.41	30.78	5.37	34.14	117	7 PEAK																																																																																																
2	2402.00	81.63	-----	-----	79.62	30.78	5.37	34.14	117	7 AVERAGE																																																																																																

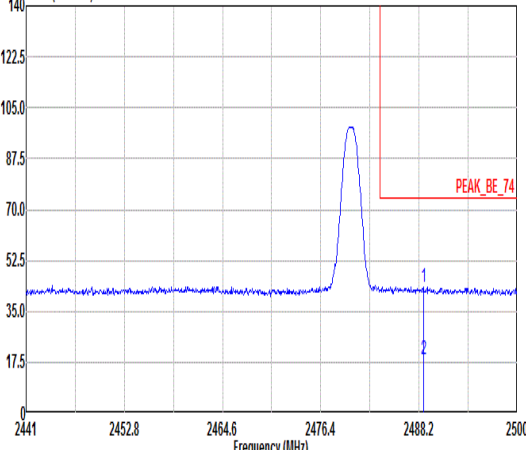
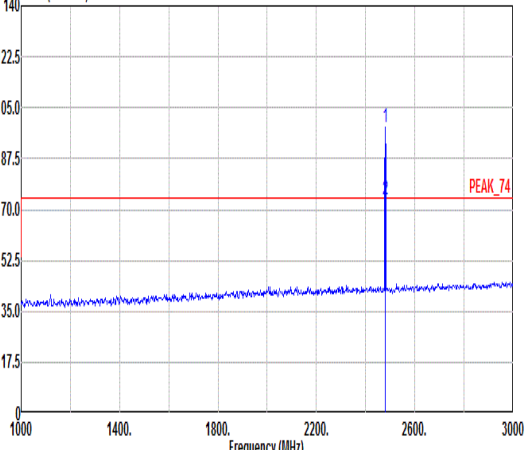


Mode	1																																																																																																																				
	Harmonic																																																																																																																				
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																																				
ANT	12																																																																																																																				
Pol.	Horizontal										Vertical																																																																																																										
Peak Avg	Level (dBuV/m) Date: 2025-03-23 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 3000 6000 9000 12000 15000 18000 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</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>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>4804.00</td><td>43.44</td><td>74.00</td><td>-30.56</td><td>62.95</td><td>36.39</td><td>8.94</td><td>64.84</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4804.00</td><td>18.65</td><td>54.00</td><td>-35.35</td><td>38.16</td><td>36.39</td><td>8.94</td><td>64.84</td><td>---</td><td>---</td><td>Average</td></tr></table>											Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4804.00	43.44	74.00	-30.56	62.95	36.39	8.94	64.84	---	---	Peak	2	4804.00	18.65	54.00	-35.35	38.16	36.39	8.94	64.84	---	---	Average	Level (dBuV/m) Date: 2025-03-23 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 3000 6000 9000 12000 15000 18000 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</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>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>4804.00</td><td>43.71</td><td>74.00</td><td>-30.29</td><td>63.22</td><td>36.39</td><td>8.94</td><td>64.84</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4804.00</td><td>18.92</td><td>54.00</td><td>-35.08</td><td>38.43</td><td>36.39</td><td>8.94</td><td>64.84</td><td>---</td><td>---</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4804.00	43.71	74.00	-30.29	63.22	36.39	8.94	64.84	---	---	Peak	2	4804.00	18.92	54.00	-35.08	38.43	36.39	8.94	64.84	---	---	Average
		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																													
	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																																												
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																											
1	4804.00	43.44	74.00	-30.56	62.95	36.39	8.94	64.84	---	---	Peak																																																																																																										
2	4804.00	18.65	54.00	-35.35	38.16	36.39	8.94	64.84	---	---	Average																																																																																																										
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																														
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																																													
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																											
1	4804.00	43.71	74.00	-30.29	63.22	36.39	8.94	64.84	---	---	Peak																																																																																																										
2	4804.00	18.92	54.00	-35.08	38.43	36.39	8.94	64.84	---	---	Average																																																																																																										



Mode	2																																																																																																																																																																			
	Harmonic																																																																																																																																																																			
	2400-2483.5 Bluetooth BR_GFSK_CH39_2441MHz																																																																																																																																																																			
ANT	12																																																																																																																																																																			
Pol.	Horizontal						Vertical																																																																																																																																																													
Peak Avg	Level (dBuV/m) Date: 2025-03-26 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</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>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>cm</th><th>deg</th></tr><tr><td>1</td><td>4882.00</td><td>43.47</td><td>74.00</td><td>-30.53</td><td>63.08</td><td>36.51</td><td>8.70</td><td>64.82</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4882.00</td><td>18.68</td><td>54.00</td><td>-35.32</td><td>38.29</td><td>36.51</td><td>8.70</td><td>64.82</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3</td><td>7323.00</td><td>42.62</td><td>74.00</td><td>-31.38</td><td>60.56</td><td>36.88</td><td>10.18</td><td>65.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>7323.00</td><td>17.83</td><td>54.00</td><td>-36.17</td><td>35.77</td><td>36.88</td><td>10.18</td><td>65.00</td><td>---</td><td>---</td><td>Average</td></tr></table>							Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4882.00	43.47	74.00	-30.53	63.08	36.51	8.70	64.82	---	---	Peak	2	4882.00	18.68	54.00	-35.32	38.29	36.51	8.70	64.82	---	---	Average	3	7323.00	42.62	74.00	-31.38	60.56	36.88	10.18	65.00	---	---	Peak	4	7323.00	17.83	54.00	-36.17	35.77	36.88	10.18	65.00	---	---	Average	Level (dBuV/m) Date: 2025-03-26 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</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>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>cm</th><th>deg</th></tr><tr><td>1</td><td>4882.00</td><td>43.76</td><td>74.00</td><td>-30.24</td><td>63.37</td><td>36.51</td><td>8.70</td><td>64.82</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>4882.00</td><td>18.97</td><td>54.00</td><td>-35.03</td><td>38.58</td><td>36.51</td><td>8.70</td><td>64.82</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3</td><td>7323.00</td><td>44.94</td><td>74.00</td><td>-29.06</td><td>62.88</td><td>36.88</td><td>10.18</td><td>65.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>7323.00</td><td>20.15</td><td>54.00</td><td>-33.85</td><td>38.09</td><td>36.88</td><td>10.18</td><td>65.00</td><td>---</td><td>---</td><td>Average</td></tr></table>							Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4882.00	43.76	74.00	-30.24	63.37	36.51	8.70	64.82	---	---	Peak	2	4882.00	18.97	54.00	-35.03	38.58	36.51	8.70	64.82	---	---	Average	3	7323.00	44.94	74.00	-29.06	62.88	36.88	10.18	65.00	---	---	Peak	4	7323.00	20.15	54.00	-33.85	38.09	36.88	10.18	65.00	---	---	Average
		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																																																																												
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																																																																																												
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																											
1	4882.00	43.47	74.00	-30.53	63.08	36.51	8.70	64.82	---	---	Peak																																																																																																																																																									
2	4882.00	18.68	54.00	-35.32	38.29	36.51	8.70	64.82	---	---	Average																																																																																																																																																									
3	7323.00	42.62	74.00	-31.38	60.56	36.88	10.18	65.00	---	---	Peak																																																																																																																																																									
4	7323.00	17.83	54.00	-36.17	35.77	36.88	10.18	65.00	---	---	Average																																																																																																																																																									
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																																																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																																																																																												
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																											
1	4882.00	43.76	74.00	-30.24	63.37	36.51	8.70	64.82	---	---	Peak																																																																																																																																																									
2	4882.00	18.97	54.00	-35.03	38.58	36.51	8.70	64.82	---	---	Average																																																																																																																																																									
3	7323.00	44.94	74.00	-29.06	62.88	36.88	10.18	65.00	---	---	Peak																																																																																																																																																									
4	7323.00	20.15	54.00	-33.85	38.09	36.88	10.18	65.00	---	---	Average																																																																																																																																																									



Mode	3																																																																																																					
	Band Edge																																																																																																					
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz																																																																																																					
ANT	12																																																																																																					
Pol.	Horizontal	Fundamental																																																																																																				
Peak	Level (dBuV/m) Date: 2025-03-23  140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 2441 2452.8 2464.6 2476.4 2488.2 2500 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></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>cm</th><th>deg</th></tr><tr><td>1 2488.73</td><td>43.39</td><td>74.00</td><td>-30.61</td><td>41.22</td><td>30.80</td><td>5.47</td><td>34.10</td><td>103</td><td>241 PEAK</td></tr><tr><td>2 2488.73</td><td>18.60</td><td>54.00</td><td>-35.40</td><td>16.43</td><td>30.80</td><td>5.47</td><td>34.10</td><td>103</td><td>241 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 2488.73	43.39	74.00	-30.61	41.22	30.80	5.47	34.10	103	241 PEAK	2 2488.73	18.60	54.00	-35.40	16.43	30.80	5.47	34.10	103	241 AVERAGE	Level (dBuV/m) Date: 2025-03-23  140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 1000 1400 1800 2200 2600 3000 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></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>cm</th><th>deg</th></tr><tr><td>1 2480.00</td><td>98.42</td><td>-----</td><td>-----</td><td>96.27</td><td>30.80</td><td>5.46</td><td>34.11</td><td>103</td><td>241 PEAK</td></tr><tr><td>2 2480.00</td><td>73.63</td><td>-----</td><td>-----</td><td>71.48</td><td>30.80</td><td>5.46</td><td>34.11</td><td>103</td><td>241 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 2480.00	98.42	-----	-----	96.27	30.80	5.46	34.11	103	241 PEAK	2 2480.00	73.63	-----	-----	71.48	30.80	5.46	34.11	103	241 AVERAGE
		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																													
	Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																																																																												
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																													
1 2488.73	43.39	74.00	-30.61	41.22	30.80	5.47	34.10	103	241 PEAK																																																																																													
2 2488.73	18.60	54.00	-35.40	16.43	30.80	5.47	34.10	103	241 AVERAGE																																																																																													
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																														
Freq	Level	Line	(dB)	Level	Factor	Loss Factor			Remark																																																																																													
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																													
1 2480.00	98.42	-----	-----	96.27	30.80	5.46	34.11	103	241 PEAK																																																																																													
2 2480.00	73.63	-----	-----	71.48	30.80	5.46	34.11	103	241 AVERAGE																																																																																													



Mode	3																																																																																																					
	Band Edge																																																																																																					
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz																																																																																																					
ANT	12																																																																																																					
Pol.	Vertical	Fundamental																																																																																																				
Peak	Level (dBuV/m) Date: 2025-03-23 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 2441 2452.8 2464.6 2476.4 2488.2 2500 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 2484.25</td><td>45.73</td><td>74.00</td><td>-28.27</td><td>43.58</td><td>30.80</td><td>5.46</td><td>34.11</td><td>114</td><td>41 PEAK</td></tr><tr><td>2 2484.25</td><td>20.94</td><td>54.00</td><td>-33.06</td><td>18.79</td><td>30.80</td><td>5.46</td><td>34.11</td><td>114</td><td>41 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1 2484.25	45.73	74.00	-28.27	43.58	30.80	5.46	34.11	114	41 PEAK	2 2484.25	20.94	54.00	-33.06	18.79	30.80	5.46	34.11	114	41 AVERAGE	Level (dBuV/m) Date: 2025-03-23 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 1000 1400 1800 2200 2600 3000 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 2480.00</td><td>105.18</td><td>-----</td><td>-----</td><td>103.03</td><td>30.80</td><td>5.46</td><td>34.11</td><td>114</td><td>41 PEAK</td></tr><tr><td>2 2480.00</td><td>80.39</td><td>-----</td><td>-----</td><td>78.24</td><td>30.80</td><td>5.46</td><td>34.11</td><td>114</td><td>41 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark	MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg	1 2480.00	105.18	-----	-----	103.03	30.80	5.46	34.11	114	41 PEAK	2 2480.00	80.39	-----	-----	78.24	30.80	5.46	34.11	114	41 AVERAGE
		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																													
	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																																																																												
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg																																																																																													
1 2484.25	45.73	74.00	-28.27	43.58	30.80	5.46	34.11	114	41 PEAK																																																																																													
2 2484.25	20.94	54.00	-33.06	18.79	30.80	5.46	34.11	114	41 AVERAGE																																																																																													
	Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos																																																																																														
Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark																																																																																													
MHz	dBuV/m	dBuV/m		dBuV	dB/m	dB	dB	cm	deg																																																																																													
1 2480.00	105.18	-----	-----	103.03	30.80	5.46	34.11	114	41 PEAK																																																																																													
2 2480.00	80.39	-----	-----	78.24	30.80	5.46	34.11	114	41 AVERAGE																																																																																													



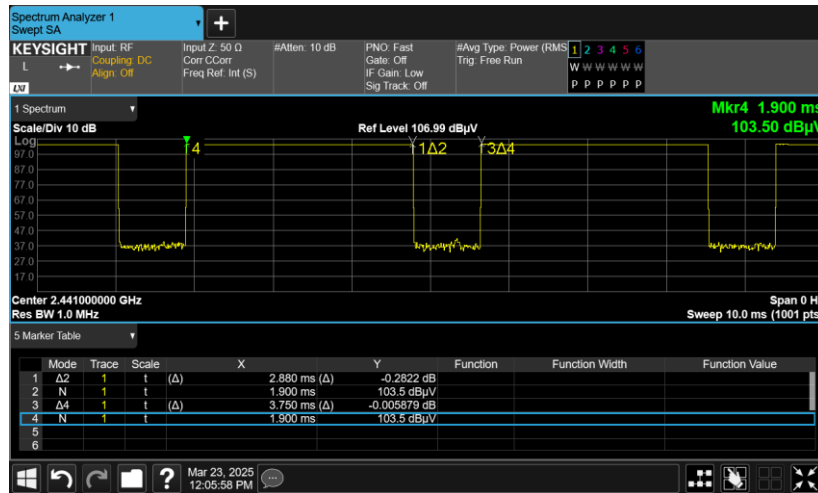
Mode	3																																																																																																																																																	
	Harmonic																																																																																																																																																	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz																																																																																																																																																	
ANT	12																																																																																																																																																	
Pol.	Horizontal	Vertical																																																																																																																																																
Peak Avg	Level (dBuV/m) Date: 2025-04-02 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</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>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>cm</th><th>deg</th></tr><tr><td>1 4960.00</td><td>44.23</td><td>74.00</td><td>-29.77</td><td>63.94</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2 4960.00</td><td>19.44</td><td>54.00</td><td>-34.56</td><td>39.15</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3 7440.00</td><td>43.73</td><td>74.00</td><td>-30.27</td><td>61.77</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4 7440.00</td><td>18.94</td><td>54.00</td><td>-35.06</td><td>36.98</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 4960.00	44.23	74.00	-29.77	63.94	36.64	8.46	64.81	---	---	Peak	2 4960.00	19.44	54.00	-34.56	39.15	36.64	8.46	64.81	---	---	Average	3 7440.00	43.73	74.00	-30.27	61.77	36.76	10.17	64.97	---	---	Peak	4 7440.00	18.94	54.00	-35.06	36.98	36.76	10.17	64.97	---	---	Average	Level (dBuV/m) Date: 2025-04-02 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</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>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>cm</th><th>deg</th></tr><tr><td>1 4960.00</td><td>43.89</td><td>74.00</td><td>-30.11</td><td>63.60</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2 4960.00</td><td>19.10</td><td>54.00</td><td>-34.90</td><td>38.81</td><td>36.64</td><td>8.46</td><td>64.81</td><td>---</td><td>---</td><td>Average</td></tr><tr><td>3 7440.00</td><td>45.88</td><td>74.00</td><td>-28.12</td><td>63.92</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4 7440.00</td><td>21.09</td><td>54.00</td><td>-32.91</td><td>39.13</td><td>36.76</td><td>10.17</td><td>64.97</td><td>---</td><td>---</td><td>Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1 4960.00	43.89	74.00	-30.11	63.60	36.64	8.46	64.81	---	---	Peak	2 4960.00	19.10	54.00	-34.90	38.81	36.64	8.46	64.81	---	---	Average	3 7440.00	45.88	74.00	-28.12	63.92	36.76	10.17	64.97	---	---	Peak	4 7440.00	21.09	54.00	-32.91	39.13	36.76	10.17	64.97	---	---	Average
		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																																																										
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																																																																										
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																									
1 4960.00	44.23	74.00	-29.77	63.94	36.64	8.46	64.81	---	---	Peak																																																																																																																																								
2 4960.00	19.44	54.00	-34.56	39.15	36.64	8.46	64.81	---	---	Average																																																																																																																																								
3 7440.00	43.73	74.00	-30.27	61.77	36.76	10.17	64.97	---	---	Peak																																																																																																																																								
4 7440.00	18.94	54.00	-35.06	36.98	36.76	10.17	64.97	---	---	Average																																																																																																																																								
	Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																																																											
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Remark																																																																																																																																										
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																									
1 4960.00	43.89	74.00	-30.11	63.60	36.64	8.46	64.81	---	---	Peak																																																																																																																																								
2 4960.00	19.10	54.00	-34.90	38.81	36.64	8.46	64.81	---	---	Average																																																																																																																																								
3 7440.00	45.88	74.00	-28.12	63.92	36.76	10.17	64.97	---	---	Peak																																																																																																																																								
4 7440.00	21.09	54.00	-32.91	39.13	36.76	10.17	64.97	---	---	Average																																																																																																																																								



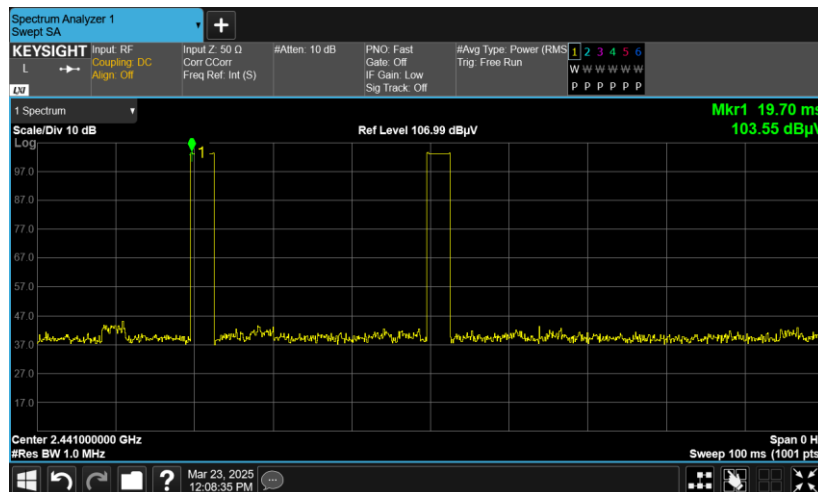
Mode	4																																																																																																																																																																																	
	LF																																																																																																																																																																																	
	2400-2483.5_Bluetooth BR_GFSK-LF_CH78_2480MHz																																																																																																																																																																																	
ANT	12																																																																																																																																																																																	
Pol.	Horizontal								Vertical																																																																																																																																																																									
Peak	Level (dBuV/m) Date: 2025-03-28 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></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>cm deg</th></tr></thead><tbody><tr><td>1</td><td>30.00</td><td>22.28</td><td>40.00</td><td>-17.72</td><td>27.96</td><td>25.29</td><td>0.53</td><td>31.50 --- Peak</td></tr><tr><td>2</td><td>101.78</td><td>18.98</td><td>43.50</td><td>-24.52</td><td>33.27</td><td>16.38</td><td>1.03</td><td>31.70 --- Peak</td></tr><tr><td>3</td><td>155.13</td><td>21.58</td><td>43.50</td><td>-21.92</td><td>35.12</td><td>16.78</td><td>1.27</td><td>31.59 --- Peak</td></tr><tr><td>4</td><td>292.87</td><td>28.49</td><td>46.00</td><td>-17.51</td><td>38.97</td><td>19.33</td><td>1.78</td><td>31.59 --- Peak</td></tr><tr><td>5</td><td>559.62</td><td>27.12</td><td>46.00</td><td>-18.88</td><td>28.88</td><td>27.02</td><td>2.48</td><td>31.26 --- Peak</td></tr><tr><td>6</td><td>858.38</td><td>30.09</td><td>46.00</td><td>-15.91</td><td>28.84</td><td>29.22</td><td>3.07</td><td>31.04 --- Peak</td></tr></tbody></table>									Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm deg	1	30.00	22.28	40.00	-17.72	27.96	25.29	0.53	31.50 --- Peak	2	101.78	18.98	43.50	-24.52	33.27	16.38	1.03	31.70 --- Peak	3	155.13	21.58	43.50	-21.92	35.12	16.78	1.27	31.59 --- Peak	4	292.87	28.49	46.00	-17.51	38.97	19.33	1.78	31.59 --- Peak	5	559.62	27.12	46.00	-18.88	28.88	27.02	2.48	31.26 --- Peak	6	858.38	30.09	46.00	-15.91	28.84	29.22	3.07	31.04 --- Peak	Level (dBuV/m) Date: 2025-03-28 Frequency (MHz) <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></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>cm deg</th></tr></thead><tbody><tr><td>1</td><td>32.91</td><td>26.55</td><td>40.00</td><td>-13.45</td><td>33.87</td><td>23.75</td><td>0.55</td><td>31.62 --- Peak</td></tr><tr><td>2</td><td>157.07</td><td>26.42</td><td>43.50</td><td>-17.08</td><td>40.06</td><td>16.67</td><td>1.28</td><td>31.59 --- Peak</td></tr><tr><td>3</td><td>292.87</td><td>25.28</td><td>46.00</td><td>-20.72</td><td>35.76</td><td>19.33</td><td>1.78</td><td>31.59 --- Peak</td></tr><tr><td>4</td><td>556.71</td><td>27.35</td><td>46.00</td><td>-18.65</td><td>29.20</td><td>26.95</td><td>2.47</td><td>31.27 --- Peak</td></tr><tr><td>5</td><td>802.12</td><td>30.35</td><td>46.00</td><td>-15.65</td><td>29.79</td><td>28.72</td><td>2.94</td><td>31.10 --- Peak</td></tr><tr><td>6</td><td>969.93</td><td>32.75</td><td>54.00</td><td>-21.25</td><td>28.62</td><td>31.66</td><td>3.26</td><td>30.79 --- Peak</td></tr></tbody></table>									Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm deg	1	32.91	26.55	40.00	-13.45	33.87	23.75	0.55	31.62 --- Peak	2	157.07	26.42	43.50	-17.08	40.06	16.67	1.28	31.59 --- Peak	3	292.87	25.28	46.00	-20.72	35.76	19.33	1.78	31.59 --- Peak	4	556.71	27.35	46.00	-18.65	29.20	26.95	2.47	31.27 --- Peak	5	802.12	30.35	46.00	-15.65	29.79	28.72	2.94	31.10 --- Peak	6	969.93	32.75	54.00	-21.25	28.62	31.66	3.26	30.79 --- Peak
		Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																									
	Freq	Level	Line	Margin	Level	Factor	Loss Factor																																																																																																																																																																											
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm deg																																																																																																																																																																										
1	30.00	22.28	40.00	-17.72	27.96	25.29	0.53	31.50 --- Peak																																																																																																																																																																										
2	101.78	18.98	43.50	-24.52	33.27	16.38	1.03	31.70 --- Peak																																																																																																																																																																										
3	155.13	21.58	43.50	-21.92	35.12	16.78	1.27	31.59 --- Peak																																																																																																																																																																										
4	292.87	28.49	46.00	-17.51	38.97	19.33	1.78	31.59 --- Peak																																																																																																																																																																										
5	559.62	27.12	46.00	-18.88	28.88	27.02	2.48	31.26 --- Peak																																																																																																																																																																										
6	858.38	30.09	46.00	-15.91	28.84	29.22	3.07	31.04 --- Peak																																																																																																																																																																										
	Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark																																																																																																																																																																										
Freq	Level	Line	Margin	Level	Factor	Loss Factor																																																																																																																																																																												
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm deg																																																																																																																																																																										
1	32.91	26.55	40.00	-13.45	33.87	23.75	0.55	31.62 --- Peak																																																																																																																																																																										
2	157.07	26.42	43.50	-17.08	40.06	16.67	1.28	31.59 --- Peak																																																																																																																																																																										
3	292.87	25.28	46.00	-20.72	35.76	19.33	1.78	31.59 --- Peak																																																																																																																																																																										
4	556.71	27.35	46.00	-18.65	29.20	26.95	2.47	31.27 --- Peak																																																																																																																																																																										
5	802.12	30.35	46.00	-15.65	29.79	28.72	2.94	31.10 --- Peak																																																																																																																																																																										
6	969.93	32.75	54.00	-21.25	28.62	31.66	3.26	30.79 --- Peak																																																																																																																																																																										

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 = $2 * 2.88 / 100 = 5.76 \%$
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.