

Appendix A. Test Result of AC Power Line Conducted Emission

TX_ax80_5775MHz_Line										TX_ax80_5775MHz_Neutral																																																																																																																																																																																																																																									
Site :HY-SR01 Condition :Line Mode :TX_ax80_5775MHz test by :Ryan Level (dBuV) 100 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 0.15 0.2 0.5 1 2 5 10 20 30 Frequency (MHz) Conduction(QP) Conduction(AV) Date: 2025-04-29 <table><tr><th>No.</th><th>Frequency</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.153</td><td>42.02</td><td>65.83</td><td>-23.81</td><td>32.38</td><td>9.64</td><td>QP</td></tr><tr><td>2</td><td>0.153</td><td>20.92</td><td>55.83</td><td>-34.91</td><td>11.28</td><td>9.64</td><td>Average</td></tr><tr><td>3</td><td>0.420</td><td>32.04</td><td>57.45</td><td>-25.41</td><td>22.39</td><td>9.65</td><td>QP</td></tr><tr><td>4</td><td>0.420</td><td>16.90</td><td>47.45</td><td>-30.55</td><td>7.25</td><td>9.65</td><td>Average</td></tr><tr><td>5</td><td>1.218</td><td>22.91</td><td>56.00</td><td>-33.09</td><td>13.20</td><td>9.71</td><td>QP</td></tr><tr><td>6</td><td>1.218</td><td>7.20</td><td>46.00</td><td>-38.80</td><td>-2.51</td><td>9.71</td><td>Average</td></tr><tr><td>7</td><td>2.979</td><td>18.77</td><td>56.00</td><td>-37.23</td><td>8.85</td><td>9.92</td><td>QP</td></tr><tr><td>8</td><td>2.979</td><td>4.88</td><td>46.00</td><td>-41.12</td><td>-5.04</td><td>9.92</td><td>Average</td></tr><tr><td>9</td><td>11.097</td><td>17.46</td><td>60.00</td><td>-42.54</td><td>7.33</td><td>10.13</td><td>QP</td></tr><tr><td>10</td><td>11.097</td><td>6.07</td><td>50.00</td><td>-43.93</td><td>-4.06</td><td>10.13</td><td>Average</td></tr><tr><td>11</td><td>18.094</td><td>18.98</td><td>60.00</td><td>-41.02</td><td>9.16</td><td>9.82</td><td>QP</td></tr><tr><td>12</td><td>18.094</td><td>6.20</td><td>50.00</td><td>-43.80</td><td>-3.62</td><td>9.82</td><td>Average</td></tr></table> Note: 1. Level = Read Level + Factor 2. Factor = LISN insertion loss + Cable loss 3. Over Limit = Level - Limit Line										No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBuV	dBuV	dB	dBuV	dB		1	0.153	42.02	65.83	-23.81	32.38	9.64	QP	2	0.153	20.92	55.83	-34.91	11.28	9.64	Average	3	0.420	32.04	57.45	-25.41	22.39	9.65	QP	4	0.420	16.90	47.45	-30.55	7.25	9.65	Average	5	1.218	22.91	56.00	-33.09	13.20	9.71	QP	6	1.218	7.20	46.00	-38.80	-2.51	9.71	Average	7	2.979	18.77	56.00	-37.23	8.85	9.92	QP	8	2.979	4.88	46.00	-41.12	-5.04	9.92	Average	9	11.097	17.46	60.00	-42.54	7.33	10.13	QP	10	11.097	6.07	50.00	-43.93	-4.06	10.13	Average	11	18.094	18.98	60.00	-41.02	9.16	9.82	QP	12	18.094	6.20	50.00	-43.80	-3.62	9.82	Average	Site :HY-SR01 Condition :Neutral Mode :TX_ax80_5775MHz test by :Ryan Level (dBuV) 100 87.5 75.0 62.5 50.0 37.5 25.0 12.5 0 0.15 0.2 0.5 1 2 5 10 20 30 Frequency (MHz) Conduction(QP) Conduction(AV) Date: 2025-04-29 <table><tr><th>No.</th><th>Frequency</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.154</td><td>39.60</td><td>65.78</td><td>-26.18</td><td>29.98</td><td>9.62</td><td>QP</td></tr><tr><td>2</td><td>0.154</td><td>21.91</td><td>55.78</td><td>-33.87</td><td>12.29</td><td>9.62</td><td>Average</td></tr><tr><td>3</td><td>0.419</td><td>31.23</td><td>57.47</td><td>-26.24</td><td>21.60</td><td>9.63</td><td>QP</td></tr><tr><td>4</td><td>0.419</td><td>15.52</td><td>47.47</td><td>-31.95</td><td>5.89</td><td>9.63</td><td>Average</td></tr><tr><td>5</td><td>1.206</td><td>21.07</td><td>56.00</td><td>-34.93</td><td>11.39</td><td>9.68</td><td>QP</td></tr><tr><td>6</td><td>1.206</td><td>6.39</td><td>46.00</td><td>-39.61</td><td>-3.29</td><td>9.68</td><td>Average</td></tr><tr><td>7</td><td>3.000</td><td>17.65</td><td>56.00</td><td>-38.35</td><td>7.75</td><td>9.90</td><td>QP</td></tr><tr><td>8</td><td>3.000</td><td>3.05</td><td>46.00</td><td>-42.95</td><td>-6.85</td><td>9.90</td><td>Average</td></tr><tr><td>9</td><td>9.893</td><td>16.52</td><td>60.00</td><td>-43.48</td><td>6.29</td><td>10.23</td><td>QP</td></tr><tr><td>10</td><td>9.893</td><td>2.37</td><td>50.00</td><td>-47.63</td><td>-7.86</td><td>10.23</td><td>Average</td></tr><tr><td>11</td><td>17.953</td><td>19.33</td><td>60.00</td><td>-40.67</td><td>9.43</td><td>9.90</td><td>QP</td></tr><tr><td>12</td><td>17.953</td><td>7.69</td><td>50.00</td><td>-42.31</td><td>-2.21</td><td>9.90</td><td>Average</td></tr></table> Note: 1. Level = Read Level + Factor 2. Factor = LISN insertion loss + Cable loss 3. Over Limit = Level - Limit Line										No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBuV	dBuV	dB	dBuV	dB		1	0.154	39.60	65.78	-26.18	29.98	9.62	QP	2	0.154	21.91	55.78	-33.87	12.29	9.62	Average	3	0.419	31.23	57.47	-26.24	21.60	9.63	QP	4	0.419	15.52	47.47	-31.95	5.89	9.63	Average	5	1.206	21.07	56.00	-34.93	11.39	9.68	QP	6	1.206	6.39	46.00	-39.61	-3.29	9.68	Average	7	3.000	17.65	56.00	-38.35	7.75	9.90	QP	8	3.000	3.05	46.00	-42.95	-6.85	9.90	Average	9	9.893	16.52	60.00	-43.48	6.29	10.23	QP	10	9.893	2.37	50.00	-47.63	-7.86	10.23	Average	11	17.953	19.33	60.00	-40.67	9.43	9.90	QP	12	17.953	7.69	50.00	-42.31	-2.21	9.90	Average
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Appendix B. Test Result of Emission Bandwidth

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth & 26dB Bandwidth	
802.11a (20MHz)	5180	16.62	19.48	-	
	5220	16.62	19.60	-	
	5240	16.62	19.44	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth	6dB Bandwidth
802.11a (20MHz)	5745	16.62	16.36	-	0.5
	5785	16.66	16.36	-	0.5
	5825	16.58	16.36	-	0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ac (20MHz)	5180	17.58	19.64	-	
	5220	17.58	19.60	-	
	5240	17.58	19.80	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth	6dB Bandwidth
802.11ac (20MHz)	5745	17.54	16.96	-	0.5
	5785	17.58	17.08	-	0.5
	5825	17.58	17.04	-	0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ac (40MHz)	5190	36.12	40.24	-	
	5230	36.12	40.24	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth	6dB Bandwidth
802.11ac (40MHz)	5755	36.04	35.68	-	0.5
	5795	36.20	35.44	-	0.5

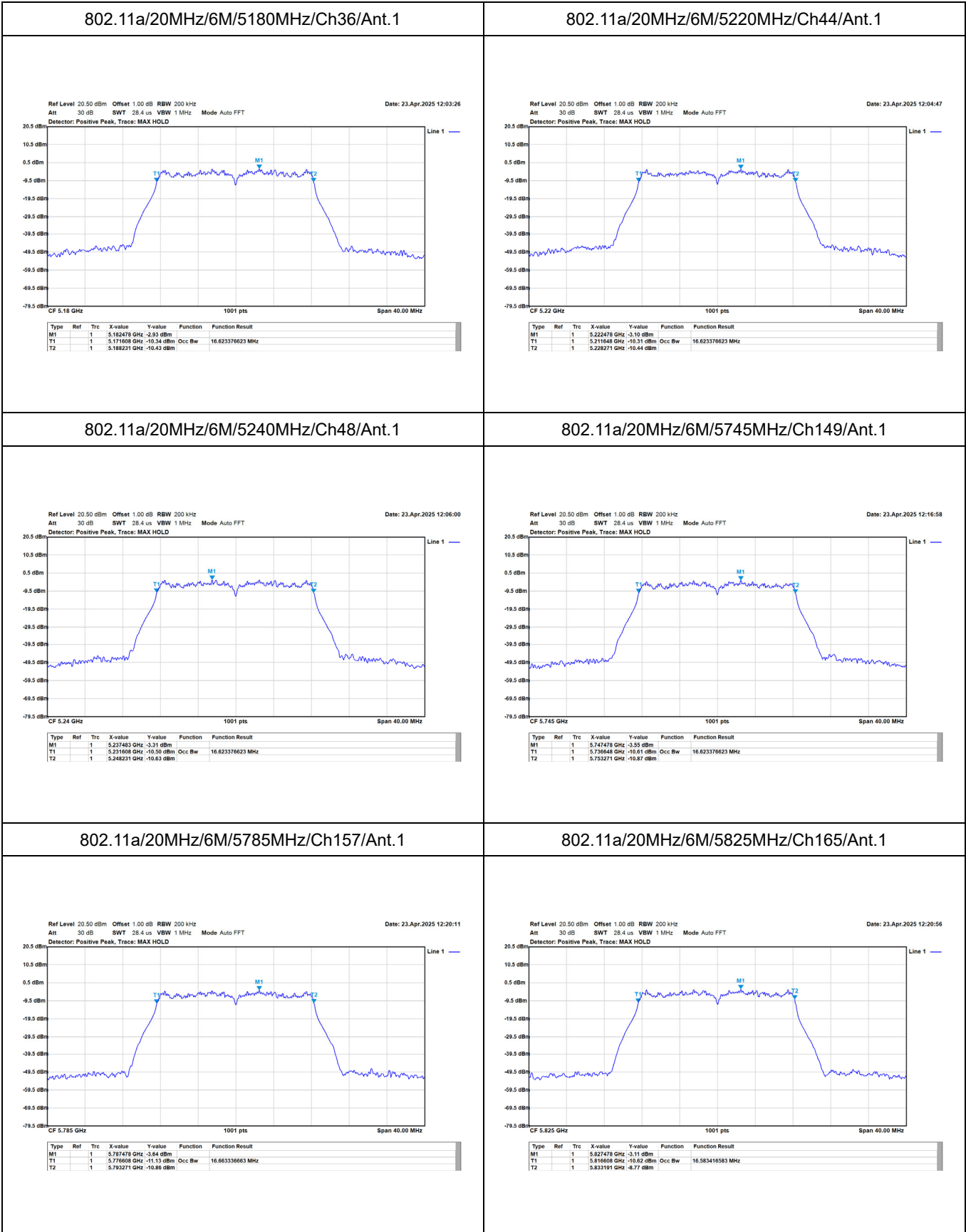
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ac (80MHz)	5210	76.40	81.76	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth	6dB Bandwidth
802.11ac (80MHz)	5775	76.40	76.48	-	0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ax (20MHz)	5180	18.78	20.04	-	
	5220	18.74	20.24	-	
	5240	18.82	20.28	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth	6dB Bandwidth
802.11ax (20MHz)	5745	18.74	17.88	-	0.5
	5785	18.74	18.04	-	0.5
	5825	18.82	18.48	-	0.5

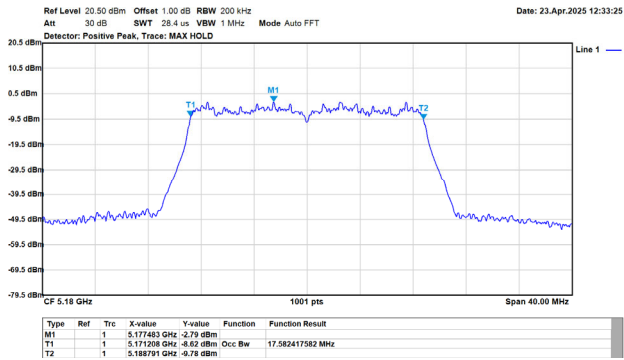
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ax (40MHz)	5190	37.48	40.24	-	
	5230	37.40	39.92	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth	6dB Bandwidth
802.11ax (40MHz)	5755	37.56	35.52	-	0.5
	5795	37.64	36.16	-	0.5

Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth & 26dB Bandwidth	
802.11ax (80MHz)	5210	77.68	80.64	-	
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	
		Ant. 1	Ant. 1	99% Occupied Bandwidth	6dB Bandwidth
802.11ax (80MHz)	5775	77.68	78.08	-	0.5

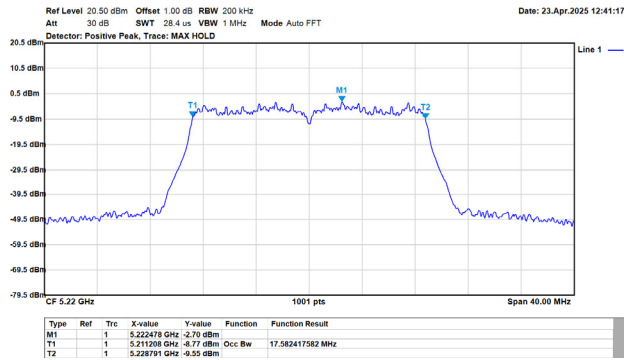
For 99% Bandwidth:



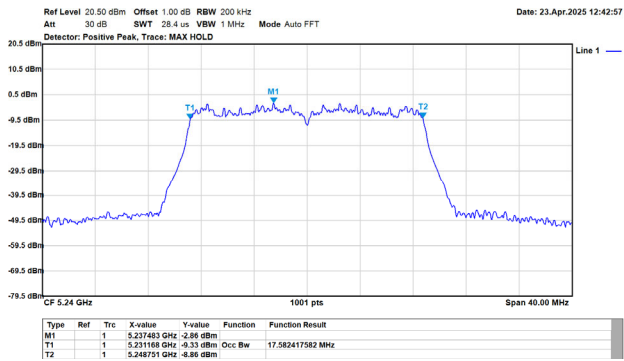
802.11ac/20MHz/MCS0/5180MHz/Ch36/Ant.1



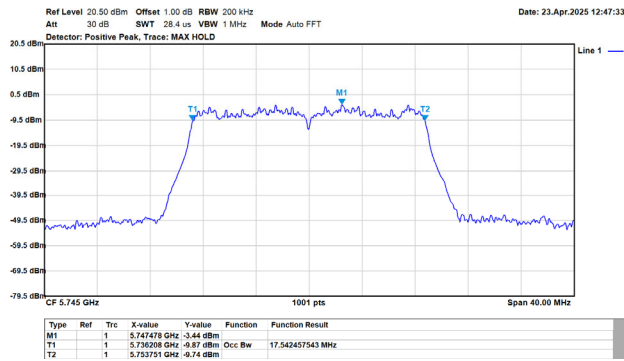
802.11ac/20MHz/MCS0/5220MHz/Ch44/Ant.1



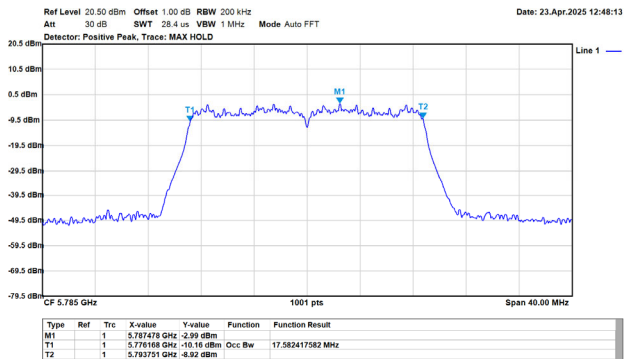
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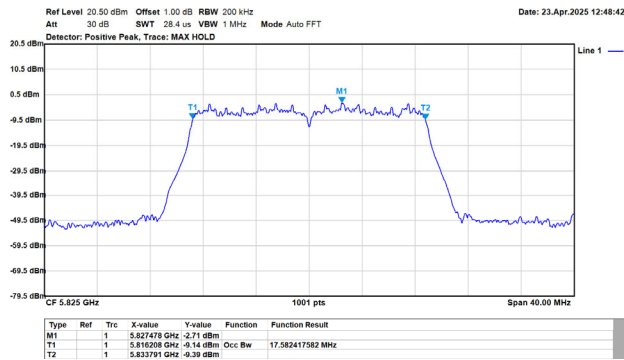
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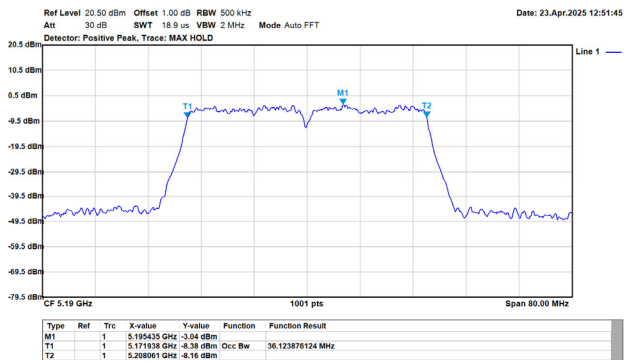
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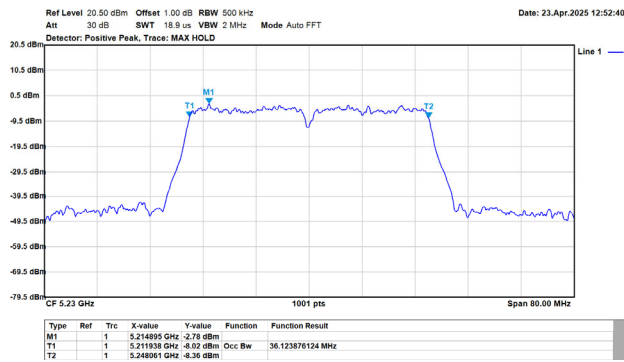
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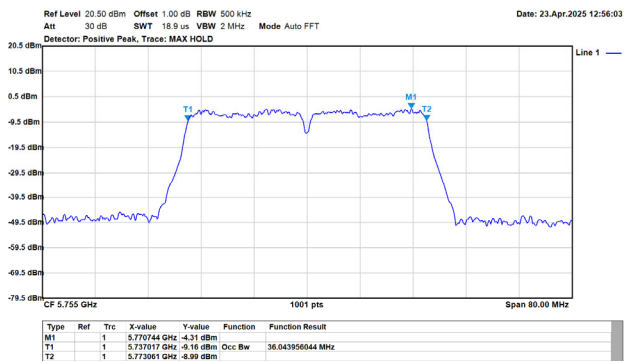
802.11ac/40MHz/MCS0/5190MHz/Ch38/Ant.1



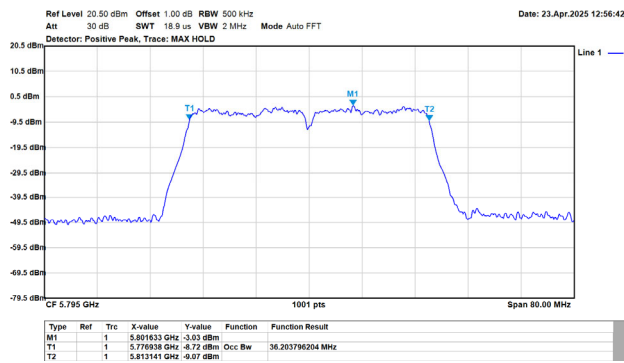
802.11ac/40MHz/MCS0/5230MHz/Ch46/Ant.1



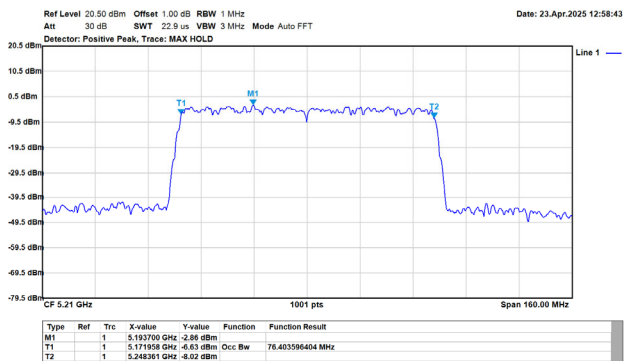
802.11ac/40MHz/MCS0/5755MHz/Ch151/Ant.1



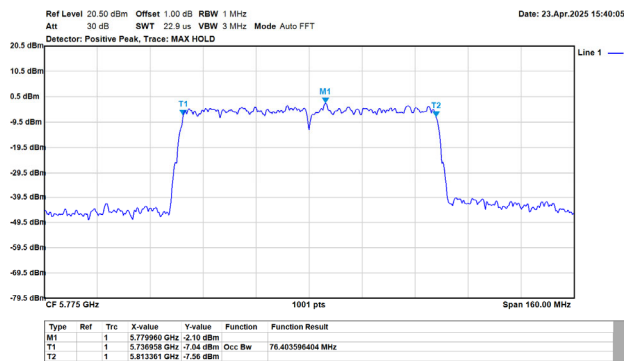
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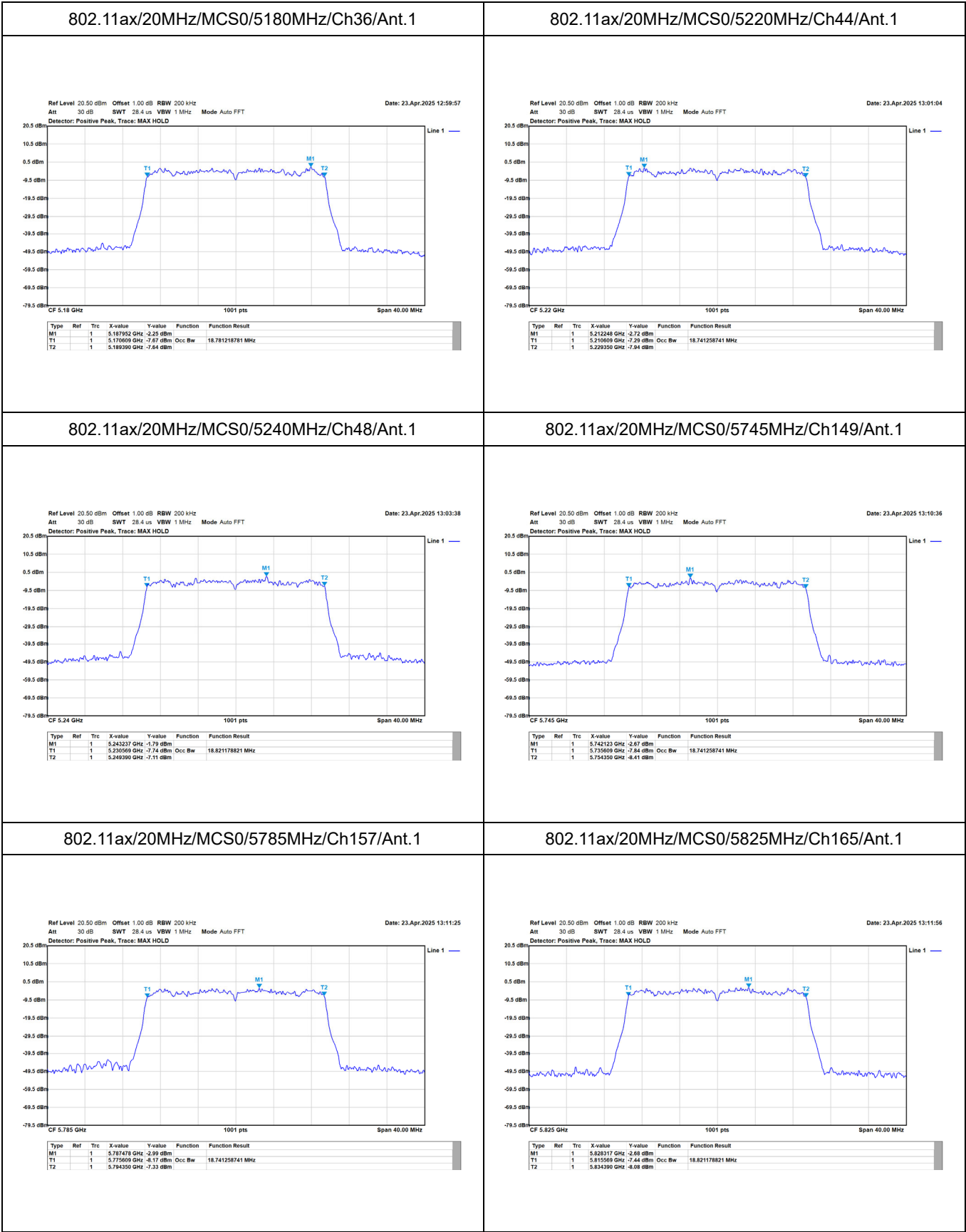


802.11ac/80MHz/MCS0/5210MHz/Ch42/Ant.1

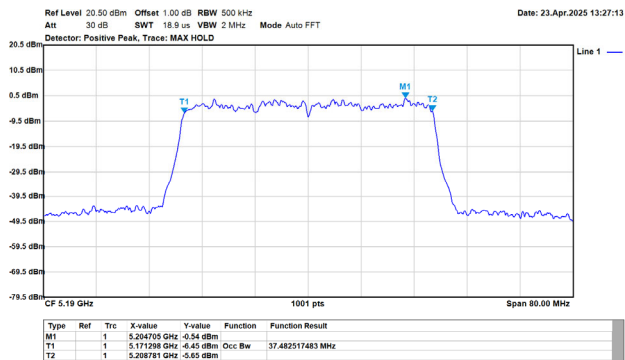


802.11ac/80MHz/MCS0/5775MHz/Ch155/Ant.1

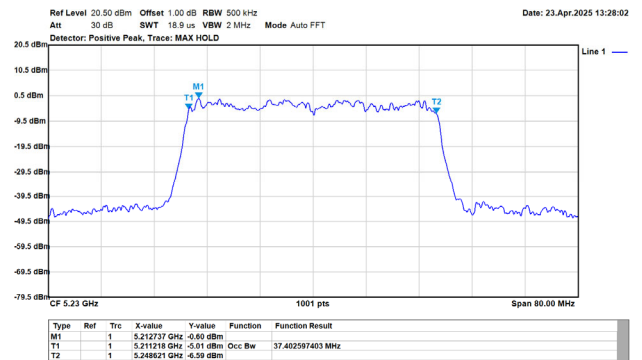




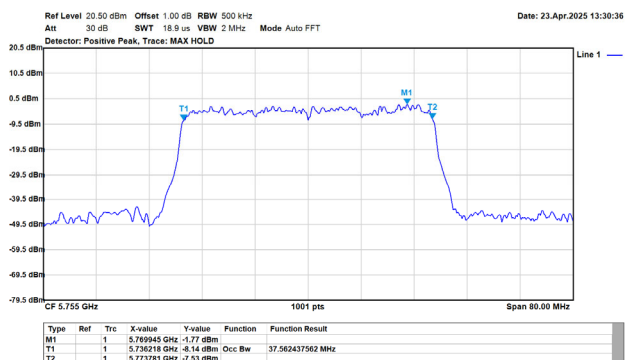
802.11ax/40MHz/MCS0/5190MHz/Ch38/Ant.1



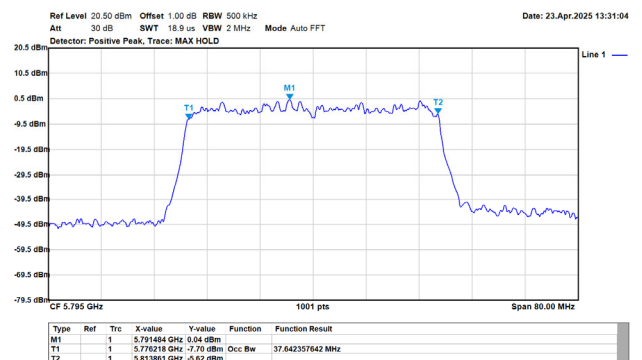
802.11ax/40MHz/MCS0/5230MHz/Ch46/Ant.1



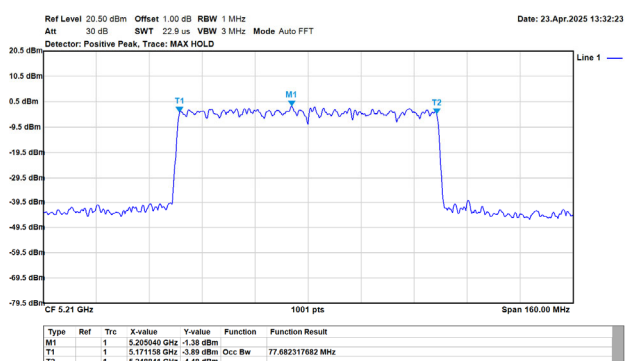
802.11ax/40MHz/MCS0/5755MHz/Ch151/Ant.1



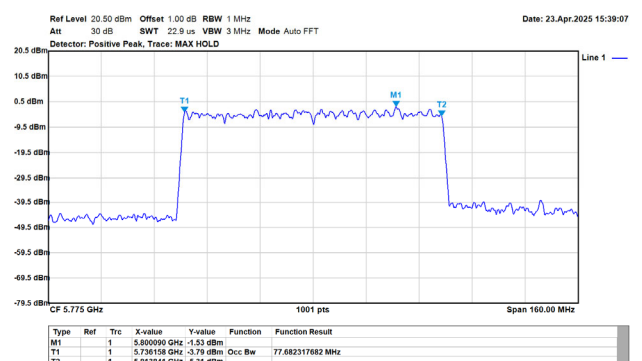
802.11ax/40MHz/MCS0/5795MHz/Ch159/Ant.1



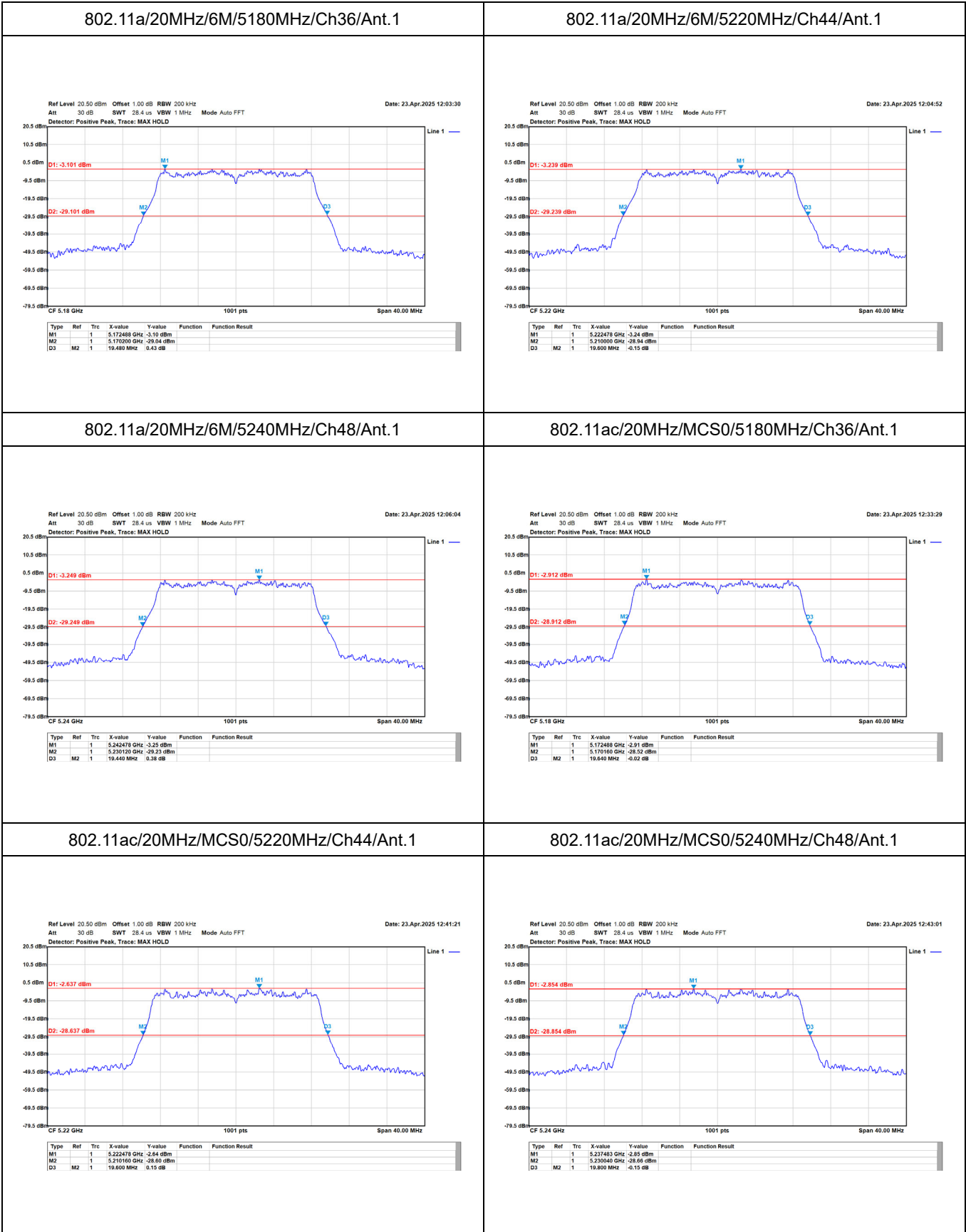
802.11ax/80MHz/MCS0/5210MHz/Ch42/Ant.1



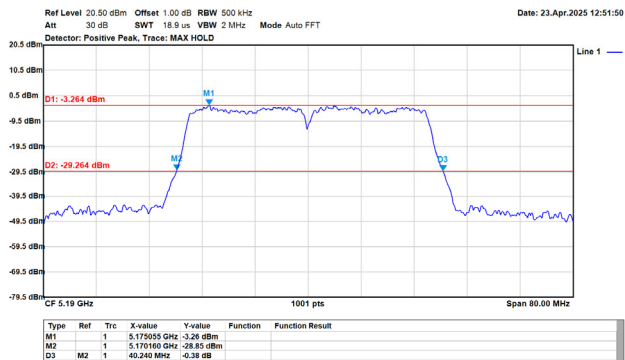
802.11ax/80MHz/MCS0/5775MHz/Ch155/Ant.1



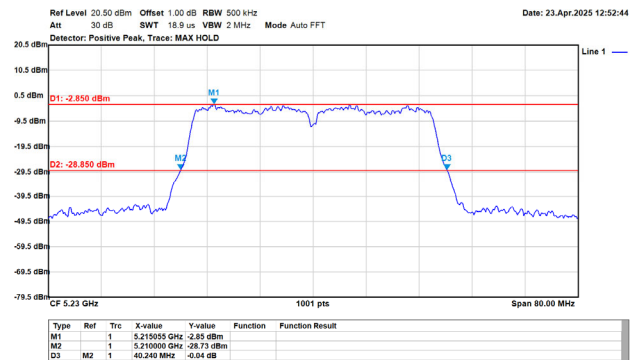
For 26dB Bandwidth:



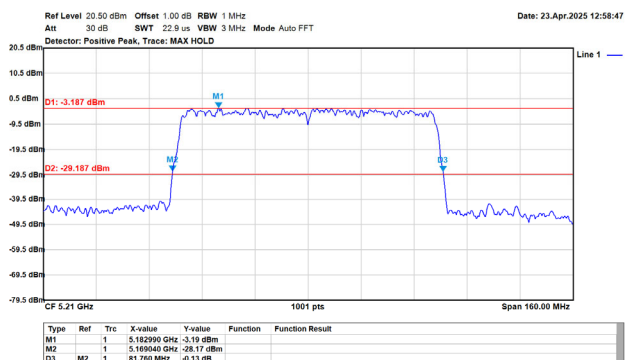
802.11ac/40MHz/MCS0/5190MHz/Ch38/Ant.1



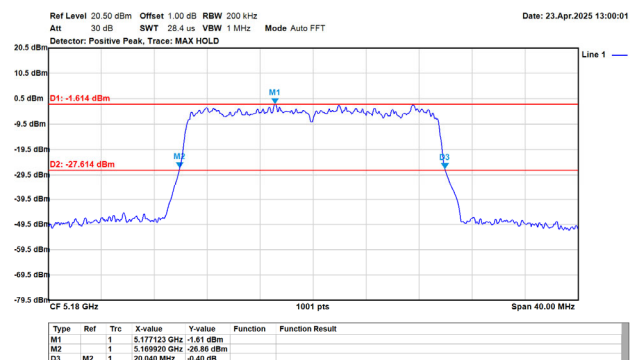
802.11ac/40MHz/MCS0/5230MHz/Ch46/Ant.1



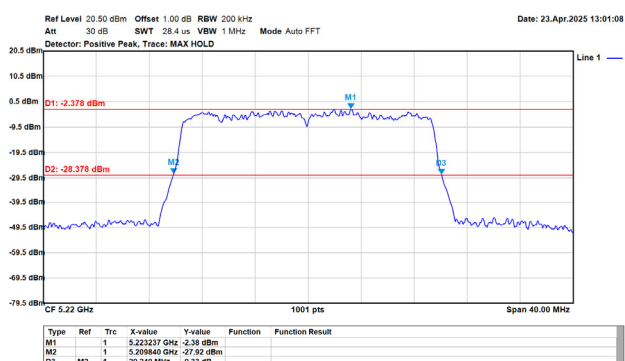
802.11ac/80MHz/MCS0/5210MHz/Ch42/Ant.1



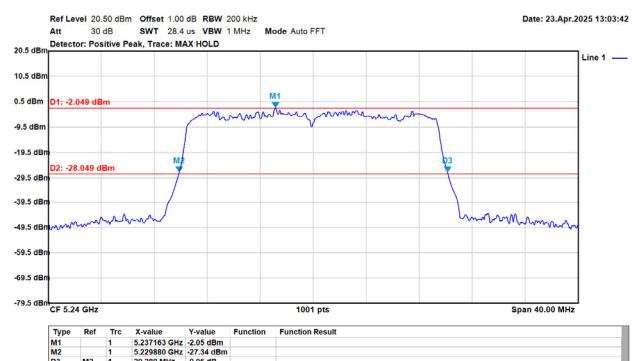
802.11ax/20MHz/MCS0/5180MHz/Ch36/Ant.1



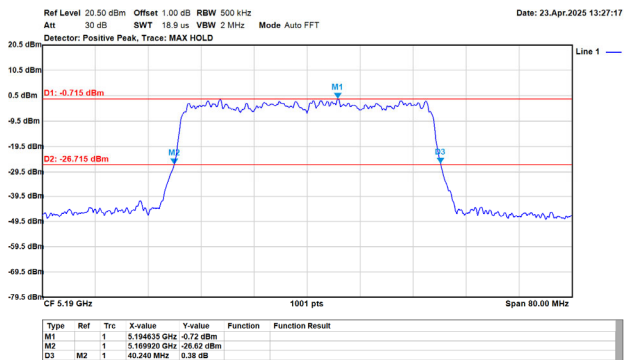
802.11ax/20MHz/MCS0/5220MHz/Ch44/Ant.1



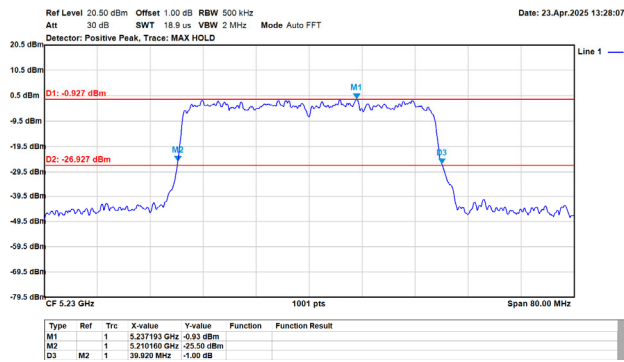
802.11ax/20MHz/MCS0/5240MHz/Ch48/Ant.1



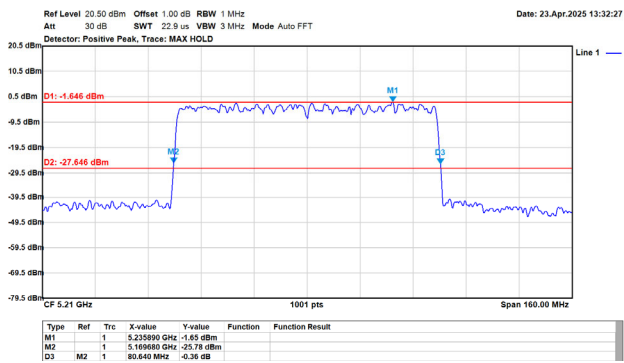
802.11ax/40MHz/MCS0/5190MHz/Ch38/Ant.1



802.11ax/40MHz/MCS0/5230MHz/Ch46/Ant.1



802.11ax/80MHz/MCS0/5210MHz/Ch42/Ant.1



For 6dB Bandwidth:

