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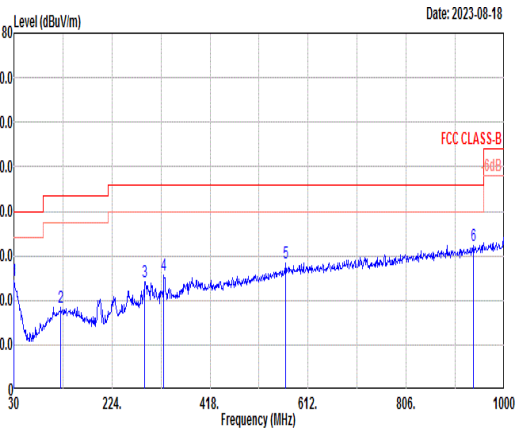
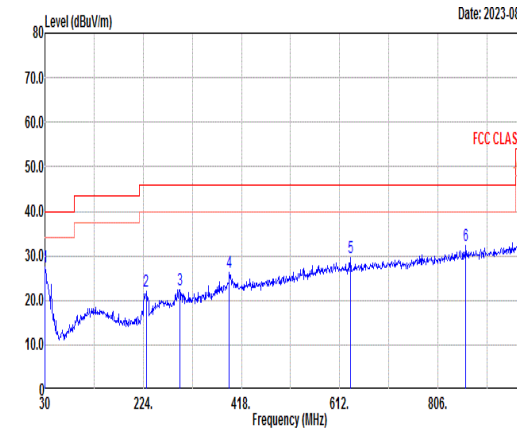


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1	30.00	27.27	40.00	-12.73	33.44	25.20	0.53 31.90 --- --- Peak																																																																																																																																											
2	124.09	20.44	43.50	-23.06	33.11	17.80	1.14 31.61 --- --- Peak																																																																																																																																											
3	228.85	20.65	46.00	-25.35	34.23	16.10	1.56 31.24 --- --- Peak																																																																																																																																											
4	397.63	25.12	46.00	-20.88	32.10	21.92	2.10 31.00 --- --- Peak																																																																																																																																											
5	711.91	29.59	46.00	-16.41	30.87	26.84	2.78 30.90 --- --- Peak																																																																																																																																											
6	903.97	31.82	46.00	-14.18	30.53	29.20	3.17 31.08 --- --- Peak																																																																																																																																											



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### Appendix D. Radiated Spurious Emission Co-location mode

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

**WIFI 802. 11ax80\_CH58+BLE\_TX\_CH38+LTE Band 13 Co-location**

**11ax80\_CH58 (Band Edge @ 3m)**

	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
WIFI 802. 11ax80_CH 58+BLE_T X_CH38+LT E Band 13 Co-location		5106.4	48.62	-25.38	74	38.15	34.59	8.43	32.55	100	323	P	H
		5112	41.1	-12.9	54	30.62	34.59	8.43	32.54	100	323	A	H
	*	5290	91.88	-	-	80.39	34.73	9.05	32.29	100	323	P	H
	*	5290	86.04	-	-	74.55	34.73	9.05	32.29	100	323	A	H
		5354.4	51.44	-22.56	74	39.4	34.78	9.46	32.2	100	323	P	H
		5354.64	45.01	-8.99	54	32.97	34.78	9.46	32.2	100	323	A	H
		5137.9	48.66	-25.34	74	38.05	34.61	8.51	32.51	384	212	P	V
		5144.2	41.19	-12.81	54	30.56	34.62	8.51	32.5	384	212	A	V
	*	5290	94.33	-	-	82.84	34.73	9.05	32.29	384	212	P	V
	*	5290	86.48	-	-	74.99	34.73	9.05	32.29	384	212	A	V
		5358.24	52.55	-21.45	74	40.5	34.79	9.46	32.2	384	212	P	V
		5353.68	46.13	-7.87	54	34.09	34.78	9.46	32.2	384	212	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**BLE\_TX\_CH38 (Band Edge @ 3m)**

	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak	Pol.
												Avg. ( P/A )	( H/V )
WIFI 802. 11ax80_CH 58+BLE_T X_CH38+LT E Band 13 Co-location	*	2478	97.13	-	-	93.99	30.81	5.46	33.13	109	65	P	H
	*	2478	95.58	-	-	92.44	30.81	5.46	33.13	109	65	A	H
		2483.64	48.7	-25.3	74	45.53	30.83	5.46	33.12	109	65	P	H
		2483.92	37.03	-16.97	54	33.85	30.84	5.46	33.12	109	65	A	H
	*	2478	95.89	-	-	92.75	30.81	5.46	33.13	369	244	P	V
	*	2478	94.2	-	-	91.06	30.81	5.46	33.13	369	244	A	V
		2483.6	47.09	-26.91	74	43.92	30.83	5.46	33.12	369	244	P	V
		2484	36.21	-17.79	54	33.03	30.84	5.46	33.12	369	244	A	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**WIFI 802. 11ax80\_CH58+BLE\_TX\_CH38+LTE Band 13 Co-location  
(Harmonic @ 3m)**

	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak	Pol.
												Avg. ( P/A )	( H/V )
WIFI 802. 11axT80_C H58+BLE_ TX_CH38+L TE Band 13 Co-location		4956	46.13	-27.87	74	35.84	34.44	8.53	32.68	-	-	P	H
		7434	42.97	-31.03	74	48.04	35.95	10.17	51.19	-	-	P	H
		10580	49.4	-18.9	68.3	48.45	39.52	12.23	50.8	-	-	P	H
		15870	50.33	-23.67	74	44.86	42.44	14.73	51.7	-	-	P	H
		4956	47.31	-26.69	74	37.02	34.44	8.53	32.68	-	-	P	V
		7434	43.38	-30.62	74	48.45	35.95	10.17	51.19	-	-	P	V
		10580	49.08	-19.22	68.3	48.13	39.52	12.23	50.8	-	-	P	V
		15870	50.4	-23.6	74	44.93	42.44	14.73	51.7	-	-	P	V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Test Plots:**

**Note symbol**

-L	Low channel location
-R	High channel location



WIFI 802. 11ax80\_CH58+BLE\_TX\_CH38+LTE Band 13 Co-location

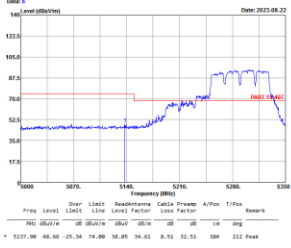
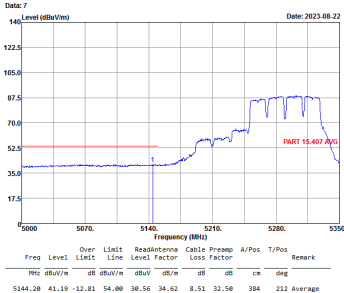
WIFI 802. 11ax80\_CH58 (Band Edge @ 3m)

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1	2484.00	36.21	-17.79	54.00	33.83	38.84	5.46 33.12 369 244 Average																																																											
Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																											
Freq	Level	Line	Level	Factor	Loss	Factor																																																												
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm deg																																																											
1	2478.00	94.28	48.20	54.00	91.86	38.81	5.46 33.13 369 244 Average																																																											



WIFI 802. 11ax80\_CH58+BLE\_TX\_CH38+LTE Band 13 Co-location (Harmonic @ 3m)

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	Horizontal	Vertical																																																																																																																																				
<b>Peak</b>	<p>Data: 23 Date: 2023-08-22</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>Head</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4956.00</td> <td>46.13</td> <td>-27.87</td> <td>74.00</td> <td>35.84</td> <td>34.44</td> <td>8.53</td> <td>32.68</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>7434.00</td> <td>42.97</td> <td>-31.03</td> <td>74.00</td> <td>48.04</td> <td>35.95</td> <td>10.17</td> <td>51.19</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>14508.00</td> <td>49.40</td> <td>-18.60</td> <td>68.80</td> <td>48.45</td> <td>39.52</td> <td>12.23</td> <td>98.00</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>15870.00</td> <td>50.33</td> <td>-23.67</td> <td>74.00</td> <td>44.86</td> <td>42.44</td> <td>14.73</td> <td>51.70</td> <td>---</td> <td>Peak</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	Head	Antenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4956.00	46.13	-27.87	74.00	35.84	34.44	8.53	32.68	---	Peak	2	7434.00	42.97	-31.03	74.00	48.04	35.95	10.17	51.19	---	Peak	3	14508.00	49.40	-18.60	68.80	48.45	39.52	12.23	98.00	---	Peak	4	15870.00	50.33	-23.67	74.00	44.86	42.44	14.73	51.70	---	Peak	<p>Data: 24 Date: 2023-08-22</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>Head</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4956.00</td> <td>47.31</td> <td>-26.69</td> <td>74.00</td> <td>37.02</td> <td>34.44</td> <td>8.53</td> <td>32.68</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>7434.00</td> <td>43.38</td> <td>-30.62</td> <td>74.00</td> <td>48.45</td> <td>35.95</td> <td>10.17</td> <td>51.19</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>14508.00</td> <td>49.80</td> <td>-18.20</td> <td>68.80</td> <td>48.13</td> <td>39.52</td> <td>12.23</td> <td>98.00</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>15870.00</td> <td>50.40</td> <td>-23.60</td> <td>74.00</td> <td>44.93</td> <td>42.44</td> <td>14.73</td> <td>51.70</td> <td>---</td> <td>Peak</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	Head	Antenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4956.00	47.31	-26.69	74.00	37.02	34.44	8.53	32.68	---	Peak	2	7434.00	43.38	-30.62	74.00	48.45	35.95	10.17	51.19	---	Peak	3	14508.00	49.80	-18.20	68.80	48.13	39.52	12.23	98.00	---	Peak	4	15870.00	50.40	-23.60	74.00	44.93	42.44	14.73	51.70	---	Peak
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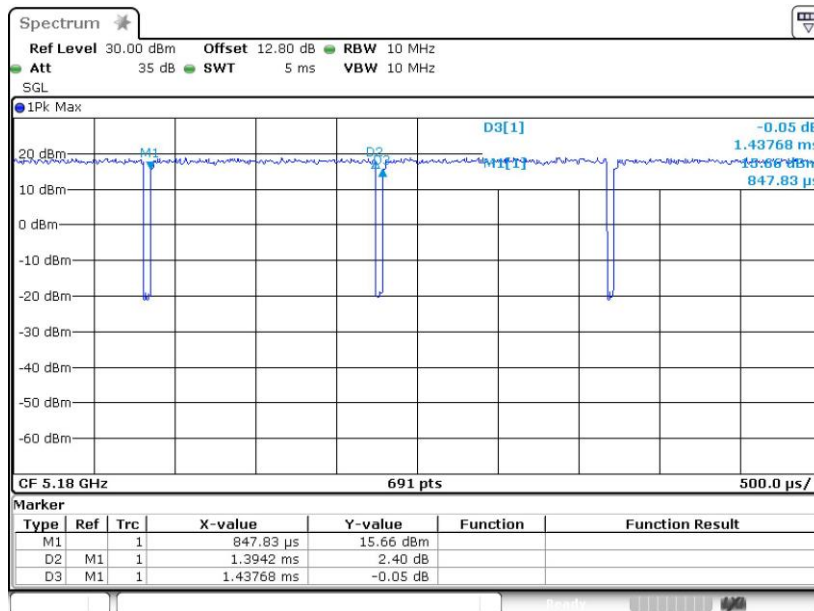
Note: the highest signals over limit are BLE and WIFI 5G co-location fundamental signals.



## Appendix E. Duty Cycle Plots

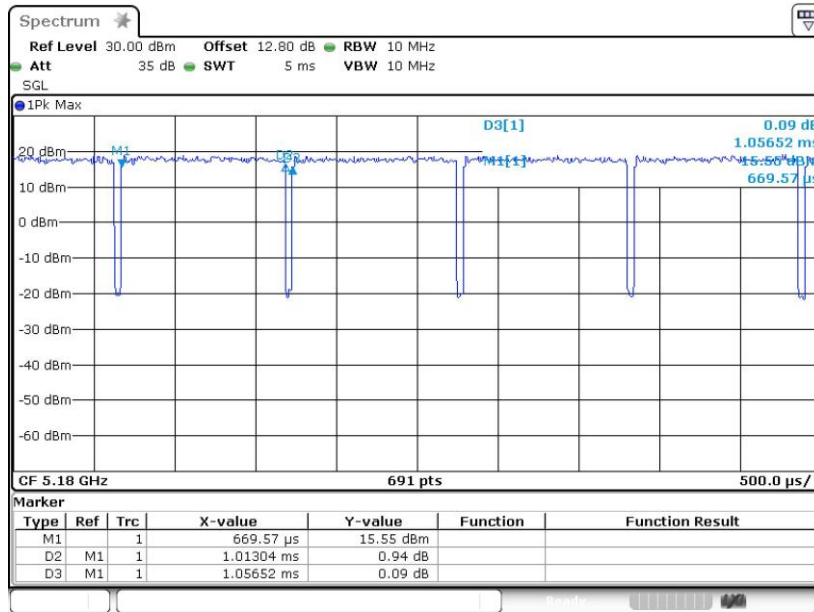
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
10+11	802.11a	96.98	1.394	0.717	1kHz
10+11	802.11ax HE20	95.88	1.013	0.987	1kHz
10+11	802.11ax HE40	92.44	0.532	1.880	3kHz
10+11	802.11ax HE80	86.90	0.289	3.467	10kHz

### 802.11a

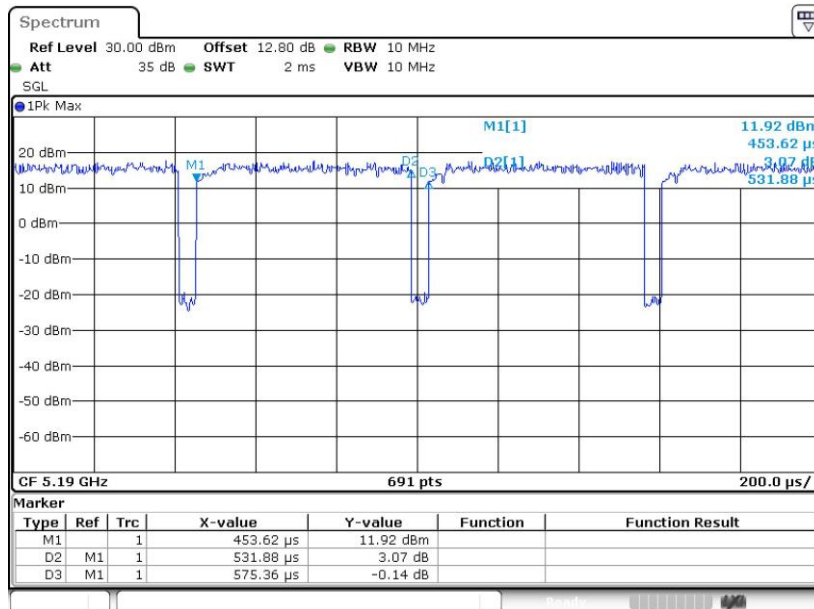




802.11ax HE20



802.11ax HE40





802.11ax HE80

