



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH00 2402MHz		2310.73	45.16	-28.84	74	40.42	31.57	5.45	32.28	100	139	P	H
		2310.73	20.37	-33.63	54	-	-	-	-	100	139	A	H
		2402	101.68	-	-	96.67	31.7	5.55	32.24	100	139	P	H
	*	2402	76.89	-	-	-	-	-	-	100	139	A	H
		2317.77	44.56	-29.44	74	39.73	31.63	5.47	32.27	112	256	P	V
		2317.77	19.77	-34.23	54	-	-	-	-	112	256	A	V
		2402	101.1	-	-	96.09	31.7	5.55	32.24	112	256	P	V
	*	2402	76.31	-	-	-	-	-	-	112	256	A	V
BT CH 39 2441MHz		2345.28	44.39	-29.61	74	39.46	31.7	5.49	32.26	100	136	P	H
		2345.28	19.6	-34.4	54	-	-	-	-	100	136	A	H
		2441	101.78	-	-	96.22	32	5.61	32.05	100	136	P	H
	*	2441	76.99	-	-	-	-	-	-	100	136	A	H
		2495.52	45.3	-28.7	74	39.37	32.1	5.68	31.85	100	136	P	H
		2495.52	20.51	-33.49	54	-	-	-	-	100	136	A	H
		2336.74	45.31	-28.69	74	40.39	31.7	5.49	32.27	100	254	P	V
		2336.74	20.52	-33.48	54	-	-	-	-	100	254	A	V
		2441	101.65	-	-	96.09	32	5.61	32.05	100	254	P	V
	*	2441	76.86	-	-	-	-	-	-	100	254	A	V
		2489.22	44.79	-29.21	74	38.96	32.1	5.68	31.95	100	254	P	V
	2489.22	20	-34	54	-	-	-	-	100	254	A	V	



BT CH 78 2480MHz		2480	101.45	-	-	95.67	32.07	5.66	31.95	101	133	P	H
	*	2480	76.66	-	-	-	-	-	-	101	133	A	H
		2487.8	49.81	-24.19	74	43.98	32.1	5.68	31.95	101	133	P	H
		2487.8	25.02	-28.98	54	-	-	-	-	101	133	A	H
		2480	98	-	-	92.22	32.07	5.66	31.95	101	243	P	V
	*	2480	73.21	-	-	-	-	-	-	101	243	A	V
		2483.64	48.61	-25.39	74	42.83	32.07	5.66	31.95	101	243	P	V
		2483.64	23.82	-30.18	54	-	-	-	-	101	243	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz
BT (Harmonic @ 3m)**

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		4804	42.55	-31.45	74	57.97	33.8	8.68	57.9	-	-	P	H
		4804	17.76	-36.24	54	-	-	-	-	-	-	A	H
		4804	41.4	-32.6	74	56.82	33.8	8.68	57.9	-	-	P	V
		4804	16.61	-37.39	54	-	-	-	-	-	-	A	V
BT CH 39 2441MHz		4882	42.83	-31.17	74	58.21	33.73	8.79	57.9	-	-	P	H
		4882	18.04	-35.96	54	-	-	-	-	-	-	A	H
		7323	44.86	-29.14	74	57.56	35.73	11.09	59.52	-	-	P	H
		7323	20.07	-33.93	54	-	-	-	-	-	-	A	H
		4882	42.56	-31.44	74	57.94	33.73	8.79	57.9	-	-	P	V
		4882	17.77	-36.23	54	-	-	-	-	-	-	A	V
		7323	45.18	-28.82	74	57.88	35.73	11.09	59.52	-	-	P	V
	7323	20.39	-33.61	54	-	-	-	-	-	-	A	V	
BT CH 78 2480MHz		4960	43.39	-30.61	74	58.58	33.73	8.98	57.9	-	-	P	H
		4960	18.6	-35.4	54	-	-	-	-	-	-	A	H
		7440	45.33	-28.67	74	58.29	35.78	11.12	59.86	-	-	P	H
		7440	20.54	-33.46	54	-	-	-	-	-	-	A	H
		4960	43.32	-30.68	74	58.51	33.73	8.98	57.9	-	-	P	V
		4960	18.53	-35.47	54	-	-	-	-	-	-	A	V



		7440	45.81	-28.19	74	58.77	35.78	11.12	59.86	-	-	P	V
		7440	21.02	-32.98	54	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 78 2480MHz		2480	102.02	-	74	96.24	32.07	5.66	31.95	100	22	P	H
		2480	77.23	-	54	-	-	-	-	100	22	A	H
		2486.44	50.45	-23.55	74	44.67	32.07	5.66	31.95	100	22	P	H
	*	2486.44	25.66	-28.34	54	-	-	-	-	100	22	A	H
		2480	101.07	-	74	95.29	32.07	5.66	31.95	108	3	P	V
		2480	76.28	-	54	-	-	-	-	108	3	A	V
		2486.4	49.96	-24.04	74	44.18	32.07	5.66	31.95	108	3	P	V
	*	2486.4	25.17	-28.83	54	-	-	-	-	108	3	A	V



2.4GHz 2400~2483.5MHz
BT (Harmonic @ 3m)

Table with 14 columns: BT, 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 Avg. (P/A), Pol. (H/V). Rows include data for BT CH 78 2480MHz and a Remark section.



Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT LF		91.11	22.99	-20.51	43.5	43.25	13.94	0.98	35.18	-	-	P	H
		196.84	24.73	-18.77	43.5	41.87	16.51	1.45	35.1	-	-	P	H
		317.12	26.19	-19.81	46	39.06	20.15	1.88	34.9	-	-	P	H
		468.44	23.92	-22.08	46	32.88	23.43	2.31	34.7	-	-	P	H
		581.93	24.67	-21.33	46	31.15	25.43	2.63	34.54	-	-	P	H
		974.78	29.23	-24.77	54	29.96	29.99	3.43	34.15	-	-	P	H
		36.79	24.86	-15.14	40	39.84	19.38	0.64	35	-	-	P	V
		94.02	23.82	-19.68	43.5	44.03	13.98	1	35.19	-	-	P	V
		196.84	28.01	-15.49	43.5	45.15	16.51	1.45	35.1	-	-	P	V
		325.85	26.59	-19.41	46	39.15	20.44	1.9	34.9	-	-	P	V
		562.53	24.95	-21.05	46	31.88	25.06	2.58	34.57	-	-	P	V
		988.36	29.64	-24.36	54	30.17	30.13	3.46	34.12	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Note symbol

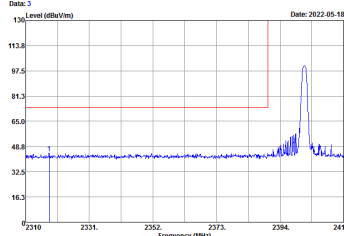
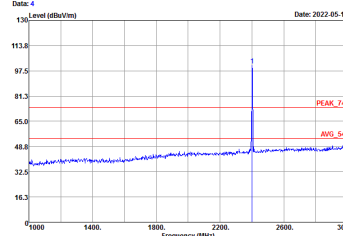
-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz
BT (Band Edge @ 3m)

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<p>Peak</p>	 <p>Date: 3 Date: 2022-05-18</p> <p>Site : 03CH02-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 VERTICAL Project : 150034-01 Mode : Mode 1 MEI : #07 G0202002160001H Plane : Y with Accessory : T02</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</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> </tr> </thead> <tbody> <tr> <td>1</td> <td>2397.77</td> <td>44.56</td> <td>-29.44</td> <td>74.00</td> <td>39.73</td> <td>31.63</td> <td>5.47</td> <td>32.27</td> <td>112</td> <td>256 Peak</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2397.77	44.56	-29.44	74.00	39.73	31.63	5.47	32.27	112	256 Peak	 <p>Date: 4 Date: 2022-05-18</p> <p>Site : 03CH02-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 150034-01 Mode : Mode 1 MEI : #07 G0202002160001H Plane : Y with Accessory : T02</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</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> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>101.10</td> <td>27.10</td> <td>74.00</td> <td>96.09</td> <td>31.70</td> <td>5.55</td> <td>32.24</td> <td>112</td> <td>256 Peak</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	101.10	27.10	74.00	96.09	31.70	5.55	32.24	112	256 Peak
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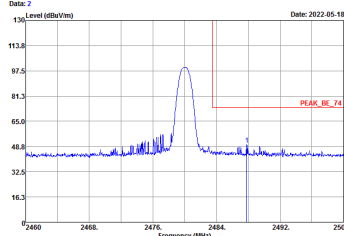
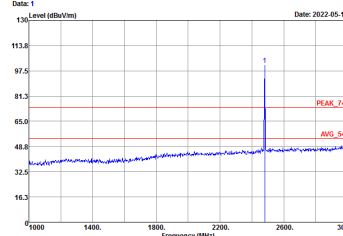


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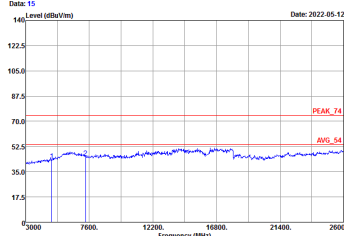
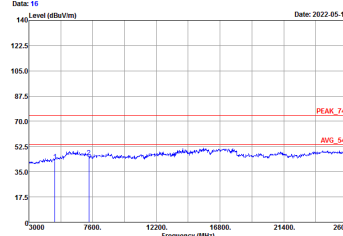
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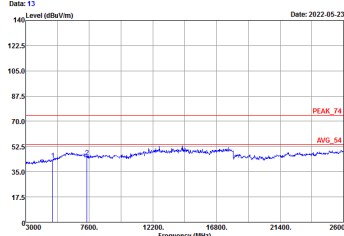
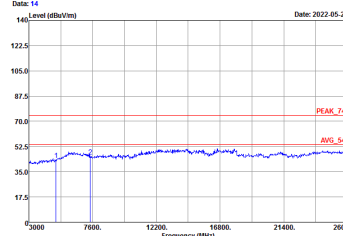
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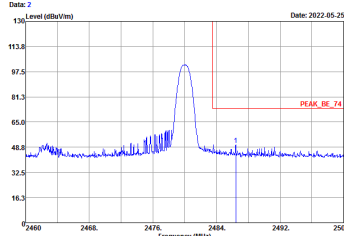
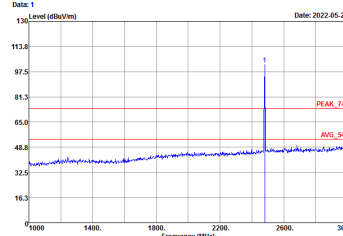
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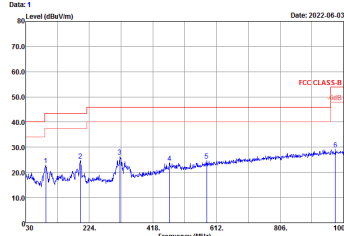
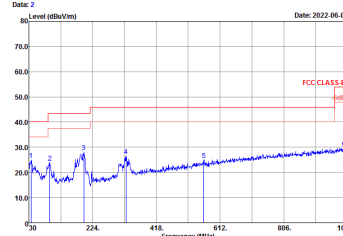


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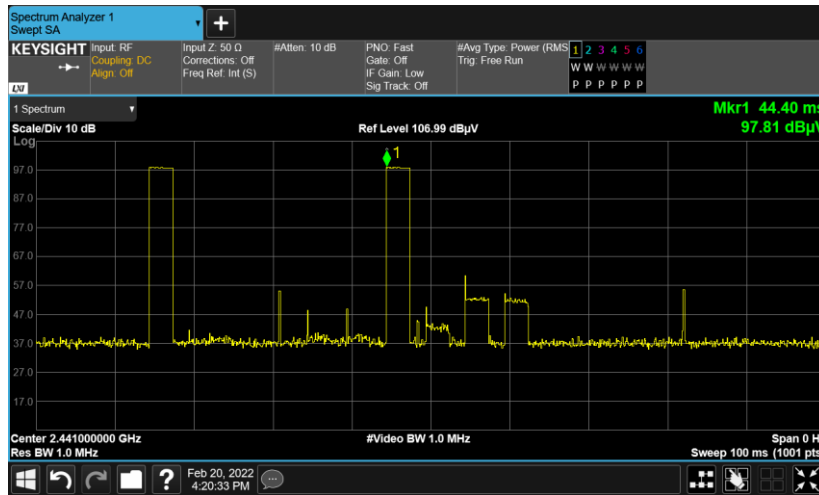


Emission below 1GHz
2.4GHz BT (LF)

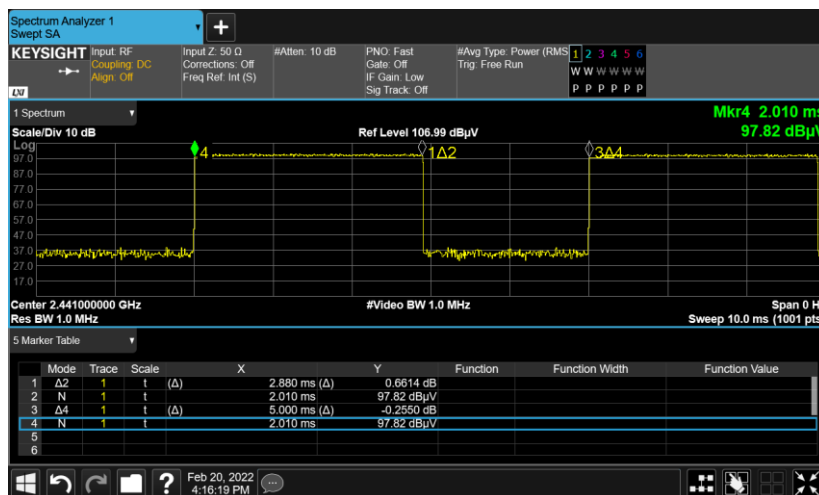
BT	2.4GHz 2400~2483.5MHz																																																																																																																																																																																	
ANT	BT LF																																																																																																																																																																																	
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Appendix E. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 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(Duty cycle) = -24.79 dB
3. 3DH5 has the highest duty cycle worst case and is reported.