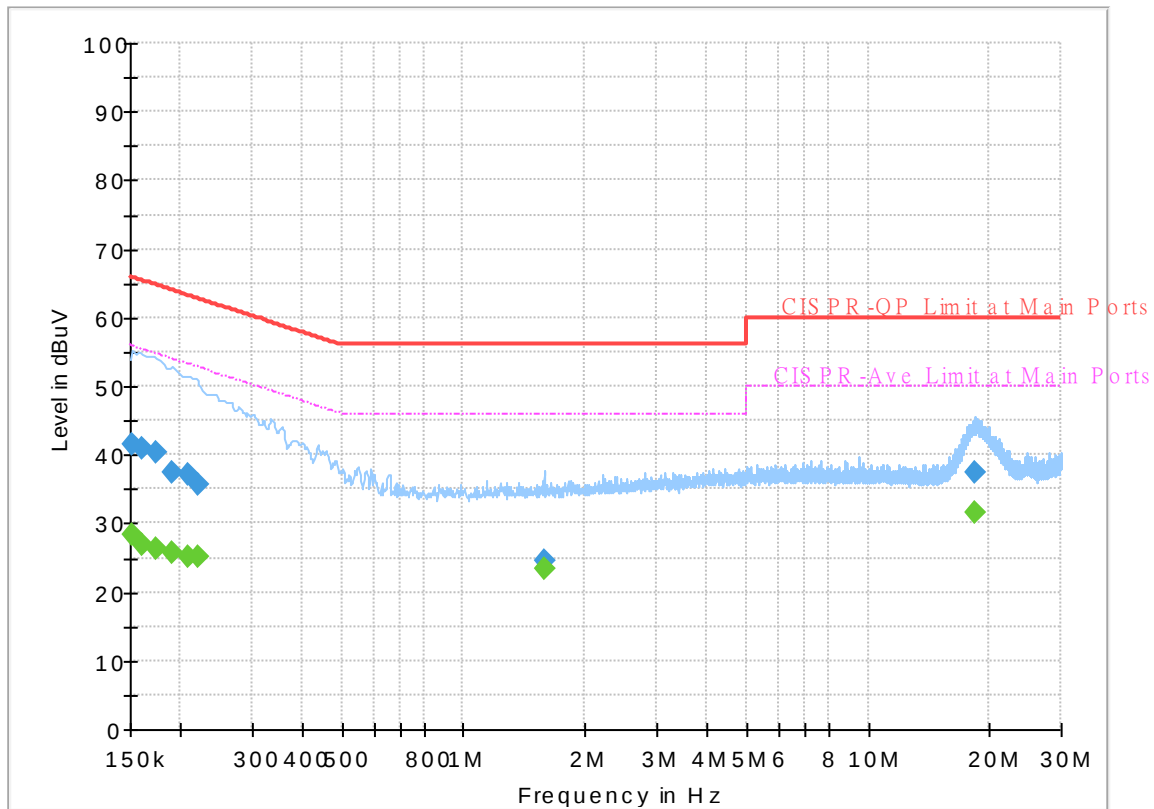


EUT Information

Report NO : 1D2427-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



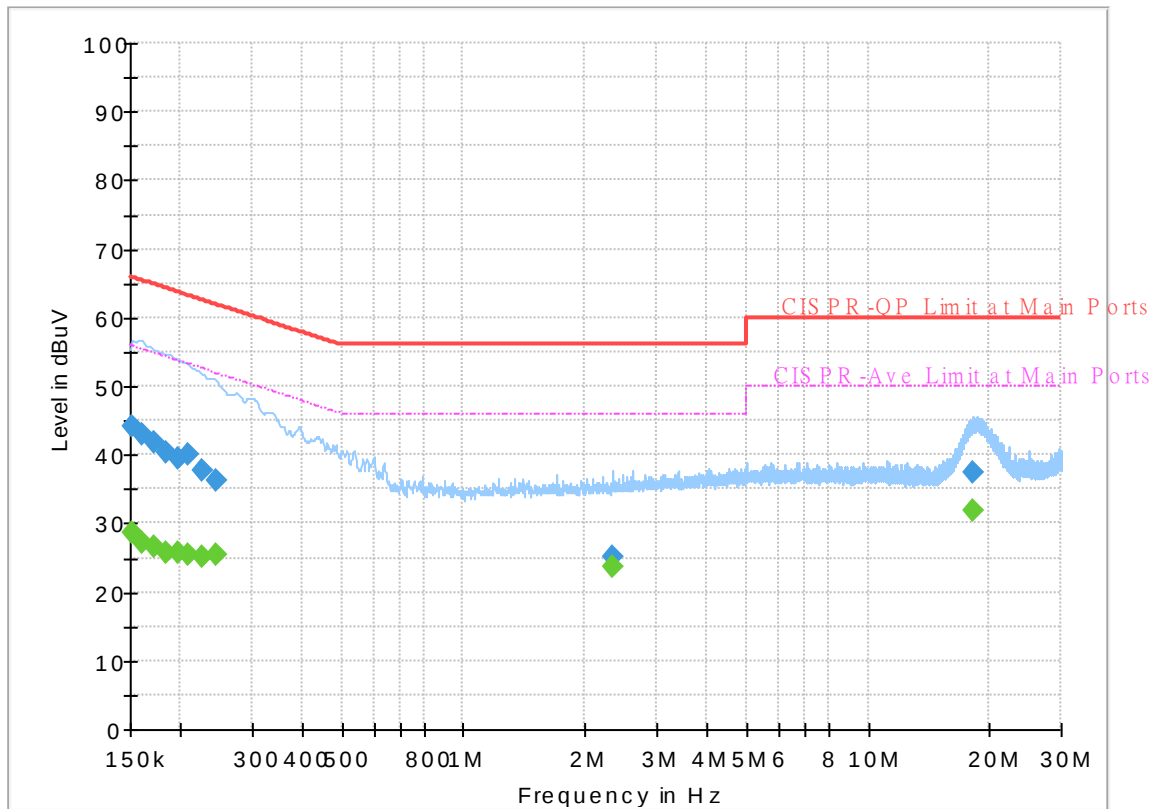
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	41.47	---	65.88	24.41	L1	OFF	19.6
0.152250	---	28.50	55.88	27.38	L1	OFF	19.6
0.161250	40.85	---	65.40	24.55	L1	OFF	19.6
0.161250	---	26.79	55.40	28.61	L1	OFF	19.6
0.174750	40.34	---	64.73	24.39	L1	OFF	19.6
0.174750	---	26.34	54.73	28.39	L1	OFF	19.6
0.190500	37.34	---	64.02	26.68	L1	OFF	19.6
0.190500	---	25.59	54.02	28.43	L1	OFF	19.6
0.208500	37.16	---	63.27	26.11	L1	OFF	19.6
0.208500	---	25.23	53.27	28.04	L1	OFF	19.6
0.219750	35.67	---	62.83	27.16	L1	OFF	19.6
0.219750	---	25.24	52.83	27.59	L1	OFF	19.6
1.581000	24.65	---	56.00	31.35	L1	OFF	19.7
1.581000	---	23.30	46.00	22.70	L1	OFF	19.7
18.411000	37.34	---	60.00	22.66	L1	OFF	20.4
18.411000	---	31.70	50.00	18.30	L1	OFF	20.4

EUT Information

Report NO : 1D2427-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.72	55.88	27.16	N	OFF	19.6
0.152250	44.02	---	65.88	21.86	N	OFF	19.6
0.161250	---	27.32	55.40	28.08	N	OFF	19.6
0.161250	42.86	---	65.40	22.54	N	OFF	19.6
0.172500	---	26.53	54.84	28.31	N	OFF	19.6
0.172500	41.77	---	64.84	23.07	N	OFF	19.6
0.183750	---	25.79	54.31	28.52	N	OFF	19.6
0.183750	40.48	---	64.31	23.83	N	OFF	19.6
0.197250	---	25.81	53.73	27.92	N	OFF	19.6
0.197250	39.42	---	63.73	24.31	N	OFF	19.6
0.208500	---	25.39	53.27	27.88	N	OFF	19.6
0.208500	40.10	---	63.27	23.17	N	OFF	19.6
0.226500	---	25.08	52.58	27.50	N	OFF	19.6
0.226500	37.79	---	62.58	24.79	N	OFF	19.6
0.244500	---	25.53	51.94	26.41	N	OFF	19.6
0.244500	36.14	---	61.94	25.80	N	OFF	19.6
2.332500	---	23.74	46.00	22.26	N	OFF	19.7
2.332500	25.22	---	56.00	30.78	N	OFF	19.7
18.264750	---	31.87	50.00	18.13	N	OFF	20.4
18.264750	37.56	---	60.00	22.44	N	OFF	20.4



Appendix C. Radiated Spurious Emission

Test Engineer :	Rain Lee and Jacky Hong	Temperature :	20~25°C
		Relative Humidity :	50~60%

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		2364.39	47.01	-26.99	74	42.2	27.77	4.11	27.07	205	30	P	H
		2364.39	22.25	-31.75	54	-	-	-	-	-	-	A	H
	*	2402	103.08	-	-	98.3	27.7	4.14	27.06	205	30	P	H
		2402	78.32	24.32	54	-	-	-	-	-	-	A	H
		2364.915	47.07	-26.93	74	42.26	27.77	4.11	27.07	100	80	P	V
		2364.915	22.31	-31.69	54	-	-	-	-	-	-	A	V
	*	2402	103.87	-	-	99.09	27.7	4.14	27.06	100	80	P	V
		2402	79.11	25.11	54	-	-	-	-	-	-	A	V
BT CH 39 2441MHz		2319.94	46.49	-27.51	74	41.47	28.04	4.07	27.09	253	131	P	H
		2319.94	21.73	-32.27	54	-	-	-	-	-	-	A	H
	*	2441	103.71	-	-	98.96	27.62	4.18	27.05	253	131	P	H
	*	2441	78.95	-	-	-	-	-	-	-	-	A	H
		2487.61	45.65	-28.35	74	40.78	27.68	4.22	27.03	253	131	P	H
		2487.61	20.89	-33.11	54	-	-	-	-	-	-	A	H
		2322.6	45.72	-28.28	74	40.72	28.02	4.07	27.09	100	124	P	V
		2322.6	20.96	-33.04	54	-	-	-	-	-	-	A	V
	*	2441	102.87	-	-	98.12	27.62	4.18	27.05	100	124	P	V
	*	2441	78.11	-	-	-	-	-	-	-	-	A	V
		2496.78	45.77	-28.23	74	40.88	27.69	4.23	27.03	100	124	P	V
		2496.78	21.01	-32.99	54	-	-	-	-	-	-	A	V



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)
BT CH 78 2480MHz	*	2480	103.49	-	-	98.66	27.66	4.21	27.04	250	132	P	H
	*	2480	78.73	-	-	-	-	-	-	-	-	A	H
		2484.28	46.56	-27.44	74	41.71	27.67	4.22	27.04	250	132	P	H
		2484.28	21.8	-32.2	54	-	-	-	-	-	-	A	H
	*	2480	103.62	-	-	98.79	27.66	4.21	27.04	116	123	P	V
	*	2480	78.86	-	-	-	-	-	-	-	-	A	V
		2483.96	47.3	-26.7	74	42.45	27.67	4.22	27.04	116	123	P	V
		2483.96	22.54	-31.46	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 (Harmonic @ 3m)**

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)
BT CH 00 2402MHz		4804	39.78	-34.22	74	58.92	31.41	6.79	57.34	-	-	P	H
		4804	15.02	-38.98	54	-	-	-	-	-	-	A	H
		10890	48.96	-25.04	74	54.5	40.88	9.99	56.41	-	-	P	H
		10890	24.2	-29.8	54	-	-	-	-	-	-	A	H
		14505	49.48	-24.52	74	52.59	41.91	11.78	56.8	-	-	P	H
		14505	24.72	-29.28	54	-	-	-	-	-	-	A	H
		18000	56.63	-17.37	74	51.61	48.5	13.55	57.03	-	-	P	H
		18000	31.87	-22.13	54	-	-	-	-	-	-	A	H
		4804	39.21	-34.79	74	58.35	31.41	6.79	57.34	-	-	P	V
		4804	14.45	-39.55	54	-	-	-	-	-	-	A	V
		10875	48.86	-25.14	74	54.44	40.85	9.98	56.41	-	-	P	V
		10875	24.1	-29.9	54	-	-	-	-	-	-	A	V
		14475	49.63	-24.37	74	52.91	41.8	11.76	56.84	-	-	P	V
		14475	24.87	-29.13	54	-	-	-	-	-	-	A	V
		18000	56.3	-17.7	74	51.28	48.5	13.55	57.03	-	-	P	V
		18000	31.54	-22.46	54	-	-	-	-	-	-	A	V



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)
BT CH 39 2441MHz		4882	39.22	-34.78	74	58.17	31.44	6.83	57.22	-	-	P	H
		4882	14.46	-39.54	54	-	-	-	-	-	-	A	H
		7323	44.62	-29.38	74	56.45	37.05	8.46	57.34	-	-	P	H
		7323	19.86	-34.14	54	-	-	-	-	-	-	A	H
		10740	49.14	-24.86	74	55.05	40.58	9.91	56.4	-	-	P	H
		10740	24.38	-29.62	54	-	-	-	-	-	-	A	H
		14505	49.61	-24.39	74	52.72	41.91	11.78	56.8	-	-	P	H
		14505	24.85	-29.15	54	-	-	-	-	-	-	A	H
		18000	56.95	-17.05	74	51.93	48.5	13.55	57.03	-	-	P	H
		18000	32.19	-21.81	54	-	-	-	-	-	-	A	H
		4882	39.43	-34.57	74	58.38	31.44	6.83	57.22	-	-	P	V
		4882	14.67	-39.33	54	-	-	-	-	-	-	A	V
		7323	44.35	-29.65	74	56.18	37.05	8.46	57.34	-	-	P	V
		7323	19.59	-34.41	54	-	-	-	-	-	-	A	V
		10935	49.31	-24.69	74	54.87	40.83	10.02	56.41	-	-	P	V
		10935	24.55	-29.45	54	-	-	-	-	-	-	A	V
		14475	50.18	-23.82	74	53.46	41.8	11.76	56.84	-	-	P	V
		14475	25.42	-28.58	54	-	-	-	-	-	-	A	V
		18000	57.38	-16.62	74	52.36	48.5	13.55	57.03	-	-	P	V
		18000	32.62	-21.38	54	-	-	-	-	-	-	A	V



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)
BT CH 78 2480MHz		4960	40.07	-33.93	74	58.59	31.72	6.86	57.1	-	-	P	H
		4960	15.31	-38.69	54	-	-	-	-	-	-	A	H
		7440	44.18	-29.82	74	56.15	37.02	8.53	57.52	-	-	P	H
		7440	19.42	-34.58	54	-	-	-	-	-	-	A	H
		10905	48.96	-25.04	74	54.48	40.89	10	56.41	-	-	P	H
		10905	24.2	-29.8	54	-	-	-	-	-	-	A	H
		14490	49.84	-24.16	74	53.02	41.86	11.77	56.81	-	-	P	H
		14490	25.08	-28.92	54	-	-	-	-	-	-	A	H
		18000	56.26	-17.74	74	51.24	48.5	13.55	57.03	-	-	P	H
		18000	31.5	-22.5	54	-	-	-	-	-	-	A	H
		4960	39.6	-34.4	74	58.12	31.72	6.86	57.1	-	-	P	V
		4960	14.84	-39.16	54	-	-	-	-	-	-	A	H
		7440	44.18	-29.82	74	56.15	37.02	8.53	57.52	-	-	P	V
		7440	19.42	-34.58	54	-	-	-	-	-	-	A	V
		10710	49.28	-24.72	74	55.26	40.52	9.9	56.4	-	-	P	V
		10710	24.52	-29.48	54	-	-	-	-	-	-	A	V
		14475	49.63	-24.37	74	52.91	41.8	11.76	56.84	-	-	P	V
		14475	24.87	-29.13	54	-	-	-	-	-	-	A	V
		17985	56.23	-17.77	74	51.62	48.1	13.54	57.03	-	-	P	V
		17985	31.47	-22.53	54	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												

**Emission above 18GHz****2.4GHz BT (SHF)**

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(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 SHF		20160	38.36	-35.64	74	57.47	37.69	-3.26	53.54	-	-	P	H
		24104	39.92	-34.08	74	56.43	38.84	-2.15	53.2	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT LF		30.97	21.86	-18.14	40	29.25	24.24	0.72	32.35	-	-	P	H
		127.97	22.05	-21.45	43.5	35.79	17.42	1.14	32.3	-	-	P	H
		231.76	25.34	-20.66	46	39.87	16.29	1.43	32.25	-	-	P	H
		478.14	24.37	-21.63	46	30.73	23.79	2.01	32.16	-	-	P	H
		692.51	27.4	-18.6	46	30.81	26.44	2.33	32.18	-	-	P	H
		903.97	34.31	-11.69	46	34.11	29.16	2.54	31.5	-	-	P	H
		30.97	21.89	-18.11	40	29.28	24.24	0.72	32.35	-	-	P	V
		111.48	21.94	-21.56	43.5	36.24	16.92	1.1	32.32	-	-	P	V
		224	23.28	-22.72	46	38.64	15.47	1.42	32.25	-	-	P	V
		565.44	26.42	-19.58	46	30.42	26.13	2.12	32.25	-	-	P	V
		717.73	30.08	-15.92	46	33.05	26.87	2.33	32.17	-	-	P	V
		897.18	34.46	-11.54	46	34.45	29.01	2.54	31.54	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



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 over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



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

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(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

$$1. \text{ Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)}$$

$$2. \text{ Level(dB}\mu\text{V/m) =}$$

$$\text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$3. \text{ Over Limit(dB) = Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 55.45(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

$$= 55.45(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -18.55(\text{dB})$$

Peak measured complies with the limit line, so test result is "PASS".

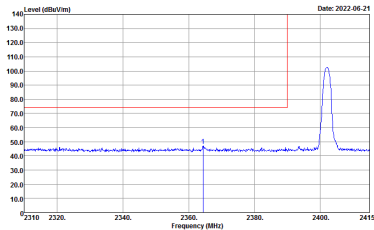
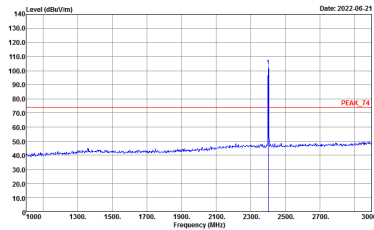


Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Rain Lee and Jacky Hong	Temperature :	20~25°C
		Relative Humidity :	50~60%

2.4GHz 2400~2483.5MHz

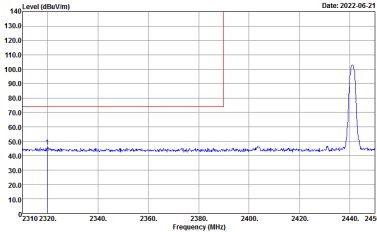
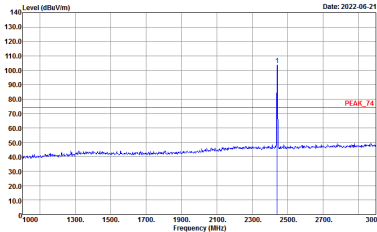
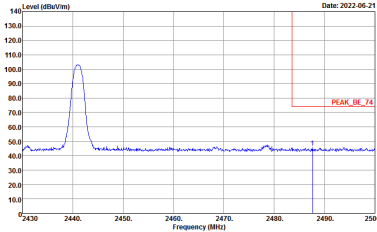
BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

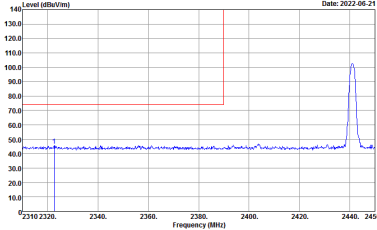
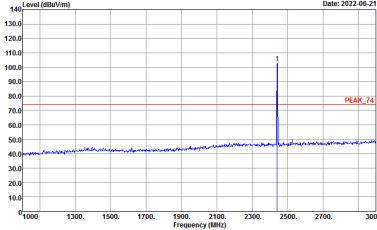
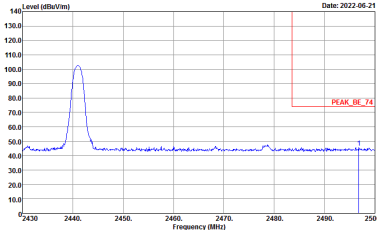


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	140 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 2310 2320 2340 2360 2380 2400 2415 Level (dBuV/m) Frequency (MHz) Date: 2022-06-21 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	140 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 1000 1300 1500 1700 1900 2100 2300 2500 2700 3000 Level (dBuV/m) Frequency (MHz) Date: 2022-06-21 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	140 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 Level (dBuV/m) Date: 2022-06-21 2400 2463.2465.2467.2469.2471.2473.2475.2477.2479.2481.2483.2485.2487.2489.2491.2493.2495.2497. 2500 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	140 130.0 120.0 110.0 100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 Level (dBuV/m) Date: 2022-06-21 1000 1300. 1500. 1700. 1900. 2100. 2300. 2500. 2700. 3000 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

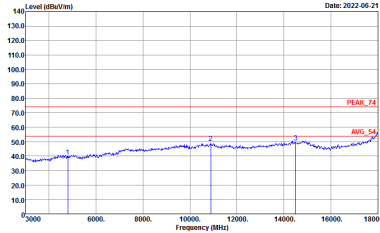
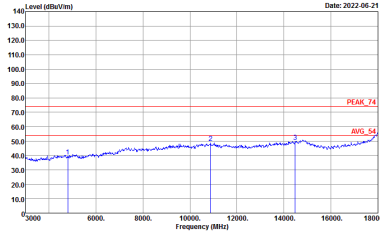


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	Level (dBuV/m) Date: 2022-06-21 PEAK_BE_74 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Level (dBuV/m) Date: 2022-06-21 PEAK_74 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 VERTICAL



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-06-21 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL	Level (dBuV/m) Date: 2022-06-21 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-06-21 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL	Level (dBuV/m) Date: 2022-06-21 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL



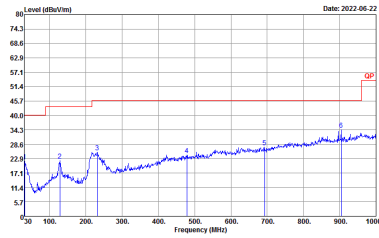
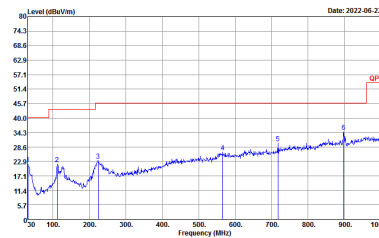
Emission above 18GHz
2.4GHz BT (SHF @ 1m)

BT	2.4GHz 2400~2483.5MHz	
	BT SHF	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-06-22 PEAK_74_1M Avg_54_1M Site : 03CH13-HY Condition : PEAK_74_1M 1m SHF ANT_9170_00993 VERTICAL	Level (dBuV/m) Date: 2022-06-22 PEAK_74_1M Avg_54_1M Site : 03CH13-HY Condition : PEAK_74_1M 1m SHF ANT_9170_00993 VERTICAL



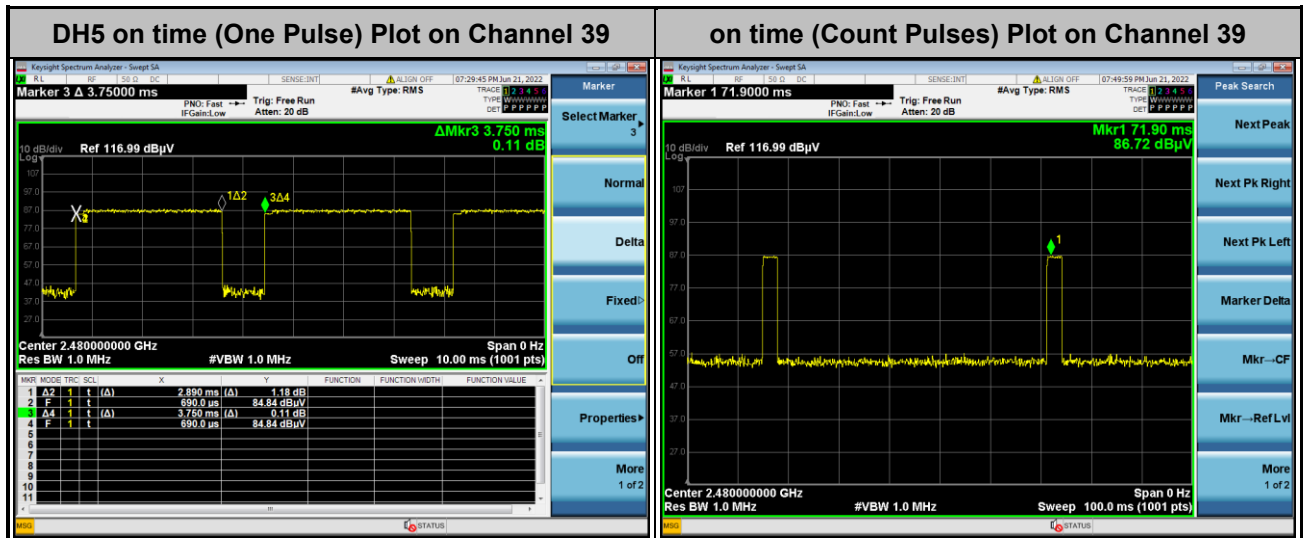
Emission below 1GHz

2.4GHz BT (LF)

BT	2.4GHz 2400~2483.5MHz	
	BT LF	
	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BILOG_40103 HORIZONTAL	 Site : 03CH13-HY Condition : QP 3m BILOG_40103 VERTICAL



Appendix E. Duty Cycle Plots



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.89 / 100 = 5.78 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.76 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$2.89 \text{ ms} \times 20 \text{ channels} = 57.8 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 57.8 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

$$2.89 \text{ ms} \times 2 = 5.78 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(5.78 \text{ ms}/100 \text{ ms}) = -24.76 \text{ dB}$$

—————THE END—————