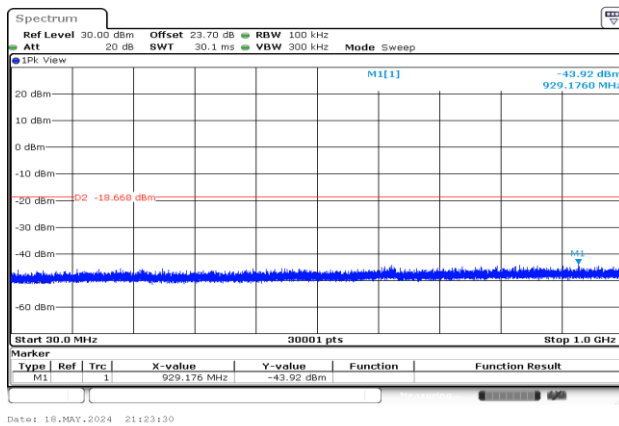




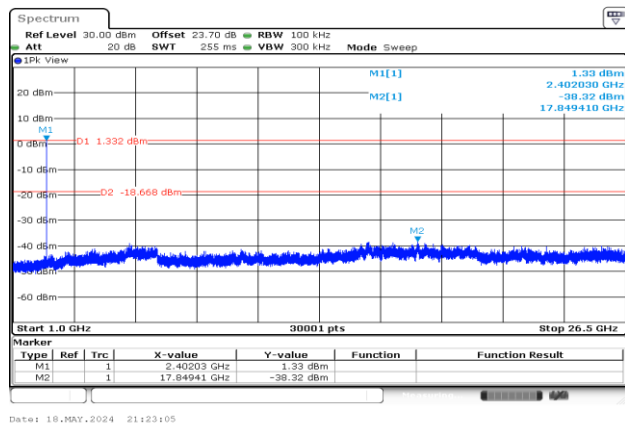
Conducted Spurious Emission

<1Mbps>

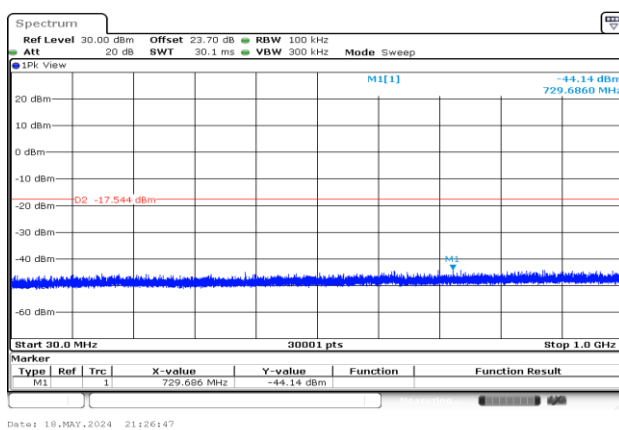
CSE Plot on Low Ch between 30MHz ~ 1 GHz



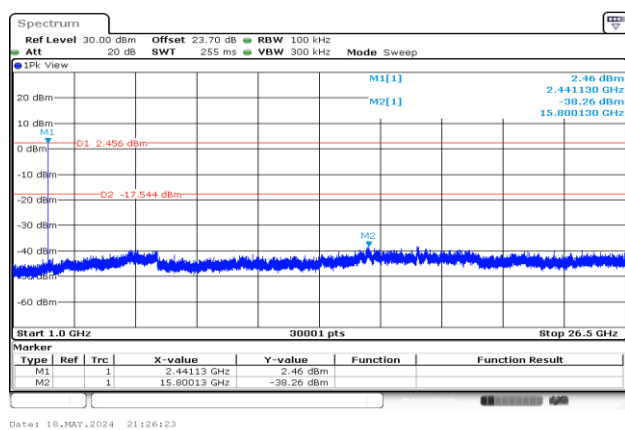
CSE Plot on Low Ch between 1GHz ~ 26.5GHz



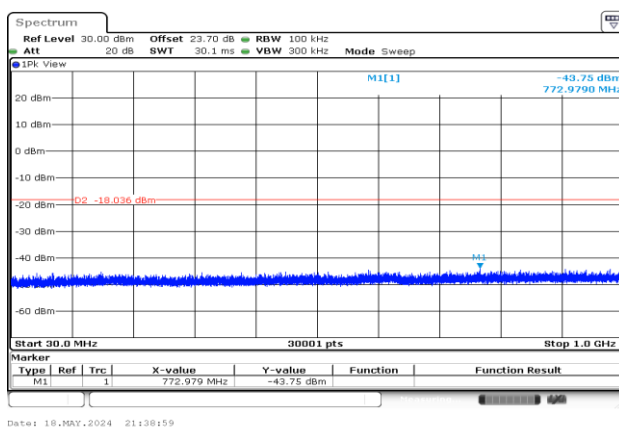
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz



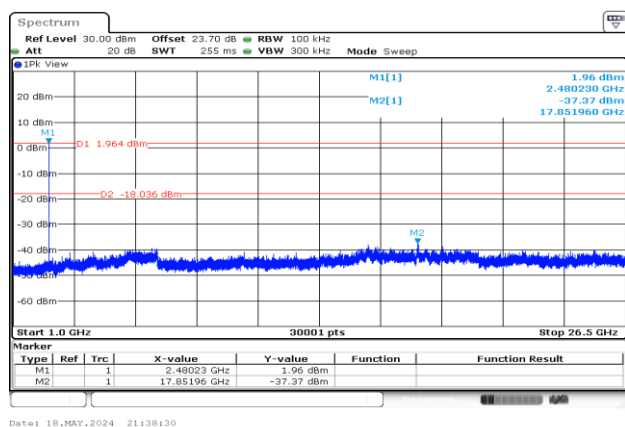
CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz



CSE Plot on High Ch between 30MHz ~ 1 GHz



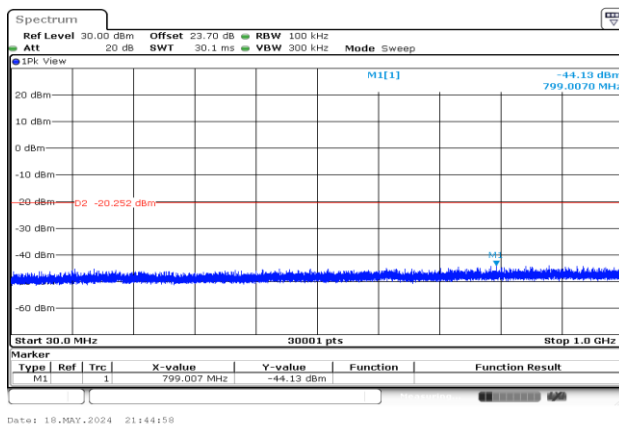
CSE Plot on High Ch between 1GHz ~ 26.5GHz



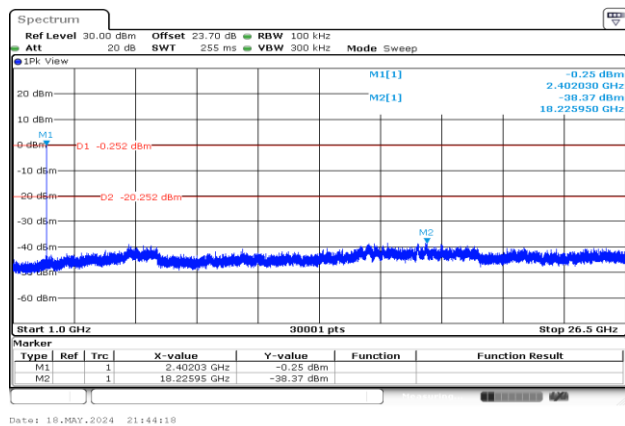


<2Mbps>

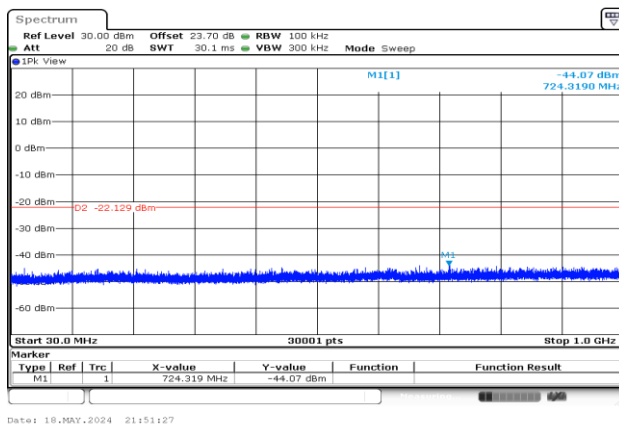
CSE Plot on Low Ch between 30MHz ~ 1 GHz



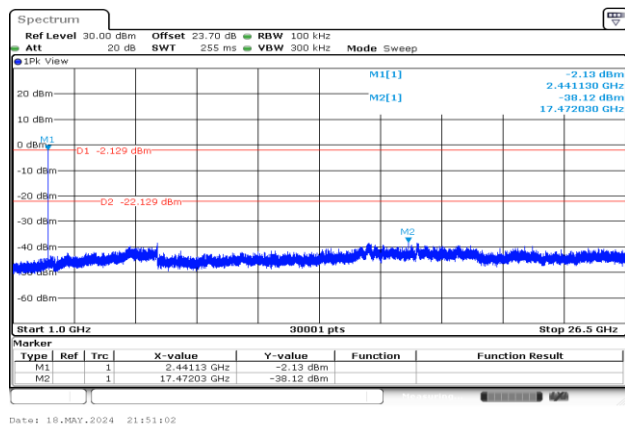
CSE Plot on Low Ch between 1GHz ~ 26.5GHz



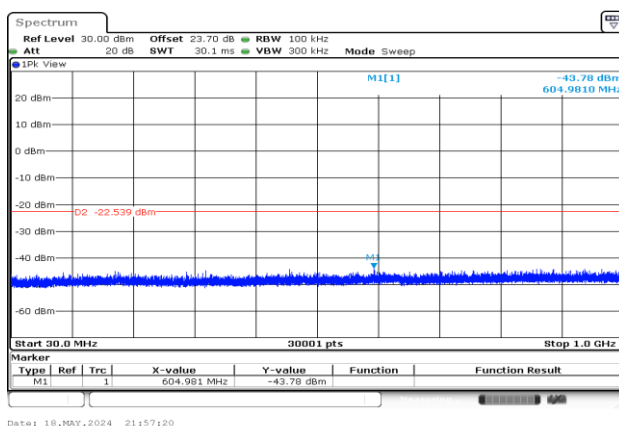
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz



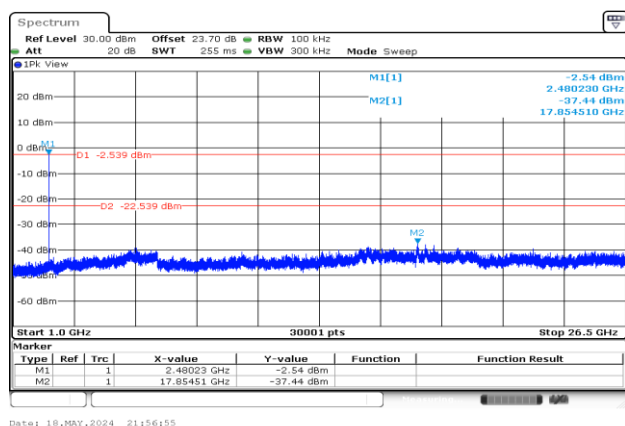
CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz



CSE Plot on High Ch between 30MHz ~ 1 GHz



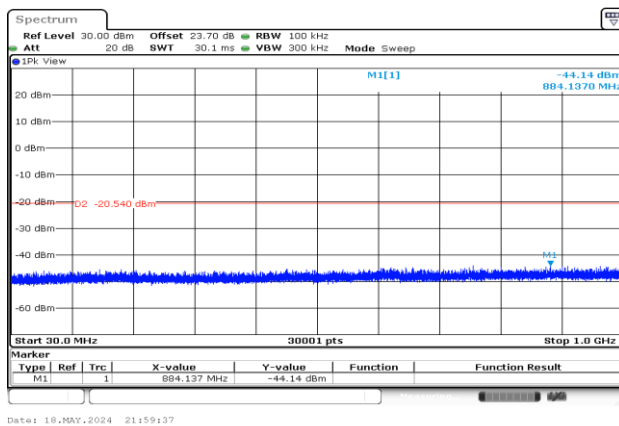
CSE Plot on High Ch between 1GHz ~ 26.5GHz



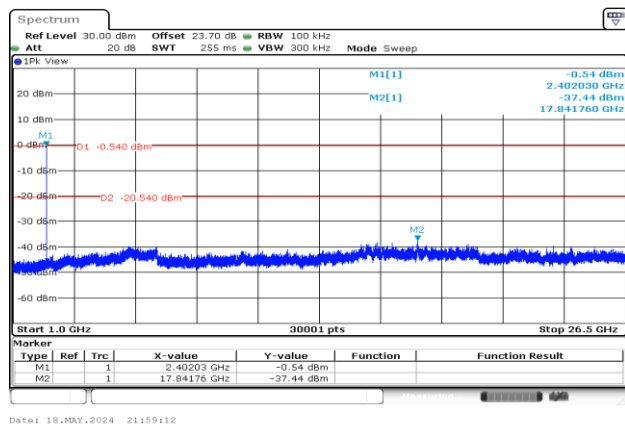


<3Mbps>

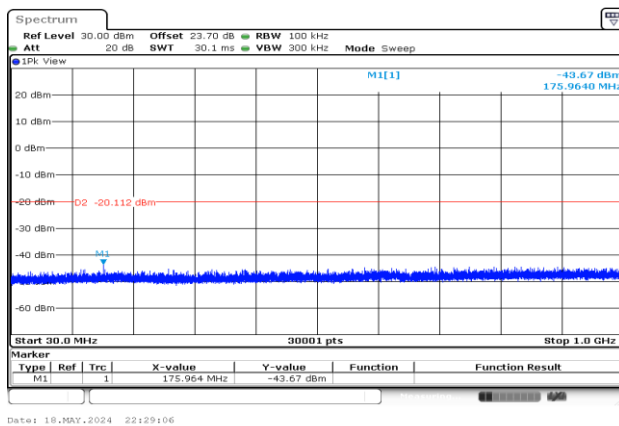
CSE Plot on Low Ch between 30MHz ~ 1 GHz



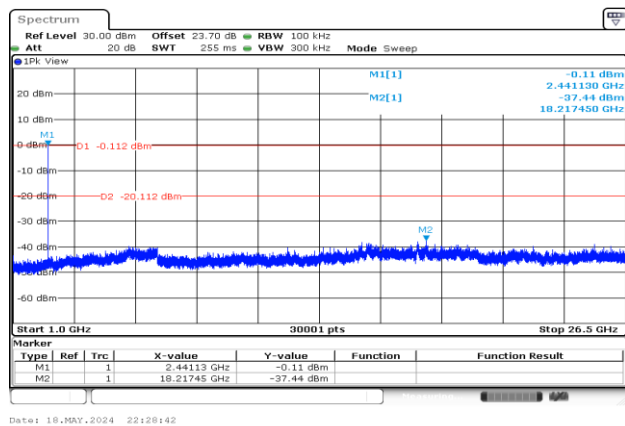
CSE Plot on Low Ch between 1GHz ~ 26.5GHz



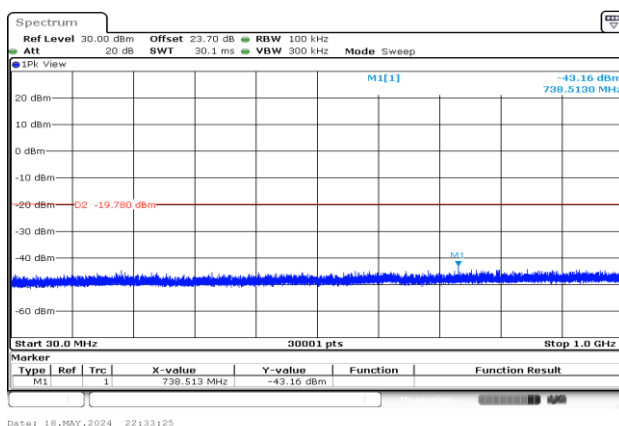
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz



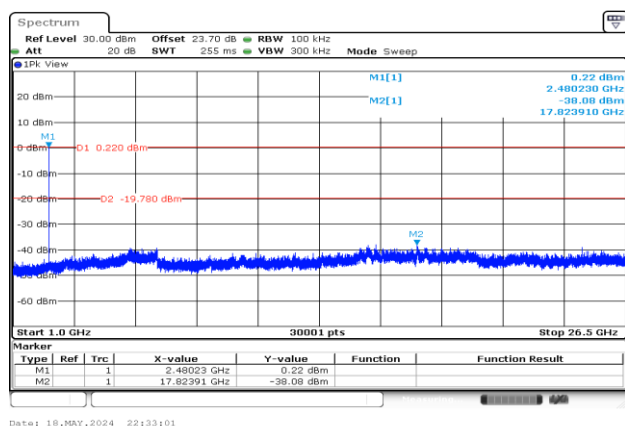
CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz



CSE Plot on High Ch between 30MHz ~ 1 GHz



CSE Plot on High Ch between 1GHz ~ 26.5GHz





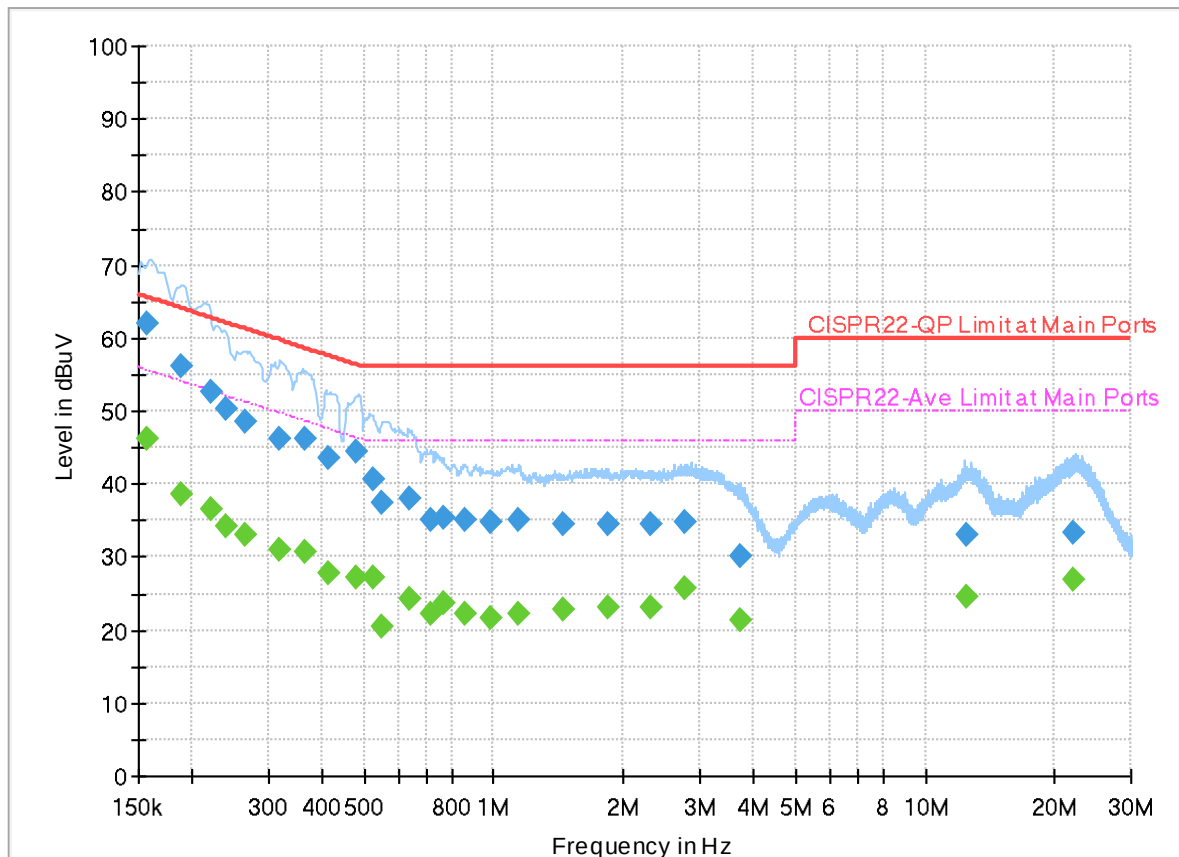
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	23.4~24.6℃
		Relative Humidity :	48.3~55.7%

EUT Information

Report NO : 413013-01
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

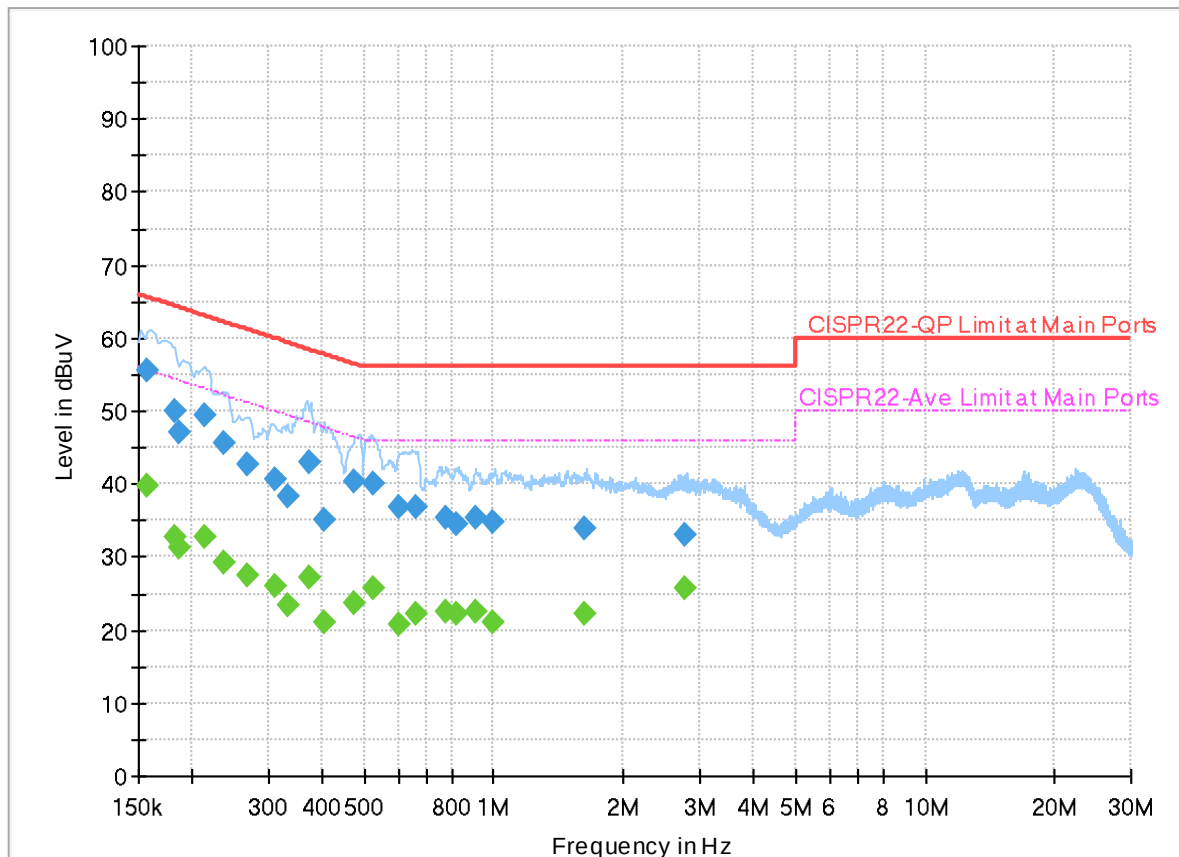
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	46.22	55.63	9.41	L1	OFF	19.9
0.156750	62.13	---	65.63	3.50	L1	OFF	19.9
0.187350	---	38.54	54.15	15.61	L1	OFF	19.9
0.187350	56.01	---	64.15	8.14	L1	OFF	19.9
0.220380	---	36.61	52.81	16.20	L1	OFF	19.9
0.220380	52.66	---	62.81	10.15	L1	OFF	19.9
0.238110	---	34.26	52.16	17.90	L1	OFF	19.9
0.238110	50.25	---	62.16	11.91	L1	OFF	19.9
0.265920	---	33.16	51.24	18.08	L1	OFF	19.9
0.265920	48.45	---	61.24	12.79	L1	OFF	19.9
0.319920	---	31.03	49.71	18.68	L1	OFF	19.9
0.319920	46.06	---	59.71	13.65	L1	OFF	19.9
0.365460	---	30.72	48.60	17.88	L1	OFF	19.9
0.365460	46.10	---	58.60	12.50	L1	OFF	19.9
0.414600	---	27.86	47.56	19.70	L1	OFF	19.9
0.414600	43.62	---	57.56	13.94	L1	OFF	19.9
0.477510	---	27.29	46.38	19.09	L1	OFF	19.9
0.477510	44.35	---	56.38	12.03	L1	OFF	19.9
0.523500	---	27.16	46.00	18.84	L1	OFF	19.9

0.523500	40.61	---	56.00	15.39	L1	OFF	19.9
0.552750	---	20.38	46.00	25.62	L1	OFF	19.9
0.552750	37.37	---	56.00	18.63	L1	OFF	19.9
0.634560	---	24.28	46.00	21.72	L1	OFF	19.9
0.634560	37.92	---	56.00	18.08	L1	OFF	19.9
0.711330	---	22.28	46.00	23.72	L1	OFF	19.9
0.711330	35.02	---	56.00	20.98	L1	OFF	19.9
0.763620	---	23.80	46.00	22.20	L1	OFF	19.9
0.763620	35.34	---	56.00	20.66	L1	OFF	19.9
0.854970	---	22.35	46.00	23.65	L1	OFF	19.9
0.854970	35.15	---	56.00	20.85	L1	OFF	19.9
0.985740	---	21.70	46.00	24.30	L1	OFF	19.9
0.985740	34.68	---	56.00	21.32	L1	OFF	19.9
1.142700	---	22.31	46.00	23.69	L1	OFF	19.9
1.142700	35.00	---	56.00	21.00	L1	OFF	19.9
1.442490	---	22.77	46.00	23.23	L1	OFF	19.9
1.442490	34.63	---	56.00	21.37	L1	OFF	19.9
1.829310	---	23.02	46.00	22.98	L1	OFF	19.9
1.829310	34.36	---	56.00	21.64	L1	OFF	19.9
2.323500	---	23.07	46.00	22.93	L1	OFF	20.0
2.323500	34.51	---	56.00	21.49	L1	OFF	20.0
2.760090	---	25.87	46.00	20.13	L1	OFF	20.0
2.760090	34.68	---	56.00	21.32	L1	OFF	20.0
3.745140	---	21.46	46.00	24.54	L1	OFF	20.0
3.745140	30.21	---	56.00	25.79	L1	OFF	20.0
12.518250	---	24.53	50.00	25.47	L1	OFF	20.1
12.518250	33.00	---	60.00	27.00	L1	OFF	20.1
22.051500	---	26.79	50.00	23.21	L1	OFF	20.1
22.051500	33.42	---	60.00	26.58	L1	OFF	20.1

EUT Information

Report NO : 413013-01
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)
0.156750	---	39.85	55.63	15.78	N	OFF	19.9
0.156750	55.65	---	65.63	9.98	N	OFF	19.9
0.181500	---	32.86	54.42	21.56	N	OFF	19.9
0.181500	50.00	---	64.42	14.42	N	OFF	19.9
0.186900	---	31.24	54.17	22.93	N	OFF	19.9
0.186900	47.11	---	64.17	17.06	N	OFF	19.9
0.214620	---	32.71	53.03	20.32	N	OFF	19.9
0.214620	49.31	---	63.03	13.72	N	OFF	19.9
0.235500	---	29.20	52.25	23.05	N	OFF	19.9
0.235500	45.58	---	62.25	16.67	N	OFF	19.9
0.267900	---	27.57	51.18	23.61	N	OFF	19.9
0.267900	42.70	---	61.18	18.48	N	OFF	19.9
0.312000	---	26.03	49.92	23.89	N	OFF	19.9
0.312000	40.71	---	59.92	19.21	N	OFF	19.9
0.332430	---	23.31	49.39	26.08	N	OFF	19.9
0.332430	38.25	---	59.39	21.14	N	OFF	19.9
0.375000	---	27.30	48.39	21.09	N	OFF	19.9
0.375000	43.04	---	58.39	15.35	N	OFF	19.9
0.402000	---	21.03	47.81	26.78	N	OFF	19.9

0.402000	35.18	---	57.81	22.63	N	OFF	19.9
0.474630	---	23.73	46.43	22.70	N	OFF	19.9
0.474630	40.28	---	56.43	16.15	N	OFF	19.9
0.526650	---	25.59	46.00	20.41	N	OFF	19.9
0.526650	40.07	---	56.00	15.93	N	OFF	19.9
0.604500	---	20.62	46.00	25.38	N	OFF	19.9
0.604500	36.77	---	56.00	19.23	N	OFF	19.9
0.658500	---	22.13	46.00	23.87	N	OFF	19.9
0.658500	36.84	---	56.00	19.16	N	OFF	19.9
0.771720	---	22.50	46.00	23.50	N	OFF	19.9
0.771720	35.42	---	56.00	20.58	N	OFF	19.9
0.820500	---	22.16	46.00	23.84	N	OFF	19.9
0.820500	34.59	---	56.00	21.41	N	OFF	19.9
0.912750	---	22.65	46.00	23.35	N	OFF	19.9
0.912750	35.30	---	56.00	20.70	N	OFF	19.9
0.998880	---	20.94	46.00	25.06	N	OFF	19.9
0.998880	34.86	---	56.00	21.14	N	OFF	19.9
1.627350	---	22.21	46.00	23.79	N	OFF	19.9
1.627350	33.98	---	56.00	22.02	N	OFF	19.9
2.767110	---	25.66	46.00	20.34	N	OFF	20.0
2.767110	33.06	---	56.00	22.94	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Jacky Hung , Mancy Chou and Rain Lee	Temperature :	20~26°C
		Relative Humidity :	40~65%

<Ant. 0>

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		2356.52	40.14	-33.86	74	45.27	27.3	4.66	37.09	120	216	P	H
		2356.52	15.35	-38.65	54	-	-	-	-	-	-	A	H
	*	2402	97.8	-	-	102.68	27.5	4.7	37.08	120	216	P	H
	*	2402	73.01	-	-	-	-	-	-	-	-	A	H
													H
		2348.96	39.43	-34.57	74	44.58	27.29	4.65	37.09	172	220	P	V
		2348.96	14.64	-39.36	54	-	-	-	-	-	-	A	V
	*	2402	102.13	-	-	107.01	27.5	4.7	37.08	172	220	P	V
	*	2402	77.34	-	-	-	-	-	-	-	-	A	V
													V
BT CH 39 2441MHz		2357.74	40.44	-33.56	74	45.57	27.3	4.66	37.09	109	222	P	H
		2357.74	15.65	-38.35	54	-	-	-	-	-	-	A	H
	*	2441	98.01	-	-	102.75	27.59	4.75	37.08	109	222	P	H
	*	2441	73.22	-	-	-	-	-	-	-	-	A	H
		2495.17	40.31	-33.69	74	44.78	27.8	4.8	37.07	109	222	P	H
		2495.17	15.52	-38.48	54	-	-	-	-	-	-	A	H
		2369.22	39.53	-34.47	74	44.65	27.3	4.67	37.09	165	222	P	V
		2369.22	14.74	-39.26	54	-	-	-	-	-	-	A	V
	*	2441	102.61	-	-	107.35	27.59	4.75	37.08	165	222	P	V
	*	2441	77.82	-	-	-	-	-	-	-	-	A	V
		2496.01	40.31	-33.69	74	44.77	27.8	4.81	37.07	165	222	P	V
		2496.01	15.52	-38.48	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	96.46	-	-	100.94	27.8	4.79	37.07	105	223	P	H
	*	2480	71.67	-	-	-	-	-	-	-	-	A	H
		2483.52	42.96	-31.04	74	47.44	27.8	4.79	37.07	105	223	P	H
		2483.52	18.17	-35.83	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	101.41	-	-	105.89	27.8	4.79	37.07	109	218	P	V
	*	2480	76.62	-	-	-	-	-	-	-	-	A	V
		2483.52	46.37	-27.63	74	50.85	27.8	4.79	37.07	109	218	P	V
		2483.52	21.58	-32.42	54	-	-	-	-	-	-	A	V
													V
													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	39.82	-34.18	74	57.61	32.32	7.29	57.4	-	-	P	H
		4804	15.03	-38.97	54	-	-	-	-	-	-	A	H
													H
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		4804	39.09	-34.91	74	56.88	32.32	7.29	57.4	-	-	P	V
		4804	14.3	-39.7	54	-	-	-	-	-	-	A	V
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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	41.42	-32.58	74	58.41	32.66	7.53	57.18	-	-	P	H
		4882	16.63	-37.37	54	-	-	-	-	-	-	A	H
		7323	45.99	-28.01	74	56.46	36.91	9.47	56.85	-	-	P	H
		7323	21.2	-32.8	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
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													H
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													H
		4882	41.8	-32.2	74	58.79	32.66	7.53	57.18	-	-	P	V
		4882	17.01	-36.99	54	-	-	-	-	-	-	A	V
		7323	45.24	-28.76	74	55.71	36.91	9.47	56.85	-	--	P	V
		7323	20.45	-33.55	54	-	-	-	-	-	-	A	V
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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 CH 78 2480MHz		4960	41.31	-32.69	74	57.43	33.06	7.77	56.95	-	-	P	H	
		4960	16.52	-37.48	54	-	-	-	-	-	-	A	H	
		7440	45.23	-28.77	74	56.4	36.42	9.46	57.05	-	-	P	H	
		7440	20.44	-33.56	54	-	-	-	-	-	-	A	H	
													H	
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													H	
													H	
													H	
		4960	42.68	-31.32	74	58.8	33.06	7.77	56.95				P	V
		4960	17.89	-36.11	54	-	-	-	-	-	-	-	A	V
		7440	45.64	-28.36	74	56.81	36.42	9.46	57.05	-	-	-	P	V
		7440	20.85	-33.15	54	-	-	-	-	-	-	-	A	V
														V
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														V
													V	
													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.													

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)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT SHF		24804	41.31	-32.69	74	57.9	39.21	-2.42	53.38	-	-	P	H
													H
													H
													H
													H
													H
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													H
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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		45.93	27.13	-12.87	40	41.82	16.43	1.27	32.39	-	-	P	H
		182.01	27.59	-15.91	43.5	43.16	14.9	1.8	32.27	-	-	P	H
		267.87	28.59	-17.41	46	39.33	19.43	2.04	32.21	-	-	P	H
		708.8	33.73	-12.27	46	36.21	26.78	2.91	32.17	-	-	P	H
		729.8	31.33	-14.67	46	33.04	27.5	2.95	32.16	-	-	P	H
		898.5	37.07	-8.93	46	36.38	29	3.23	31.54	-	-	P	H
													H
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		45.66	33.7	-6.3	40	48.25	16.57	1.27	32.39	100	26	Q	V
		61.86	33.01	-6.99	40	52.15	11.8	1.37	32.31	-	-	P	V
		143.67	30.67	-12.83	43.5	43.89	17.43	1.64	32.29	-	-	P	V
		715.1	34.9	-11.1	46	37.15	27	2.92	32.17	-	-	P	V
		901.3	34.01	-11.99	46	33.27	29.03	3.23	31.52	-	-	P	V
		946.1	33.22	-12.78	46	30.22	30.84	3.31	31.15	-	-	P	V
													V
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													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.												



<Ant. 1>

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		2383.61	39.52	-34.48	74	44.48	27.44	4.68	37.08	122	222	P	H
		2383.61	14.73	-39.27	54	-	-	-	-	-	-	A	H
	*	2402	97.68	-	-	102.56	27.5	4.7	37.08	122	222	P	H
	*	2402	72.89	-	-	-	-	-	-	-	-	A	H
													H
													H
		2357.78	39.39	-34.61	74	44.52	27.3	4.66	37.09	173	220	P	V
		2357.78	14.6	-39.4	54	-	-	-	-	-	-	A	V
	*	2402	102.04	-	-	106.92	27.5	4.7	37.08	173	220	P	V
	*	2402	77.25	-	-	-	-	-	-	-	-	A	V
													V
													V
BT CH 39 2441MHz		2349.06	39.3	-34.7	74	44.45	27.29	4.65	37.09	108	218	P	H
		2349.06	14.51	-39.49	54	-	-	-	-	-	-	A	H
	*	2441	97.55	-	-	102.29	27.59	4.75	37.08	108	218	P	H
	*	2441	72.76	-	-	-	-	-	-	-	-	A	H
		2496.22	39.75	-34.25	74	44.21	27.8	4.81	37.07	108	218	P	H
		2496.22	14.96	-39.04	54	-	-	-	-	-	-	A	H
		2383.22	38.74	-35.26	74	43.71	27.43	4.68	37.08	158	223	P	V
		2383.22	13.95	-40.05	54	-	-	-	-	-	-	A	V
	*	2441	102.32	-	-	107.06	27.59	4.75	37.08	158	223	P	V
	*	2441	77.53	-	-	-	-	-	-	-	-	A	V
		2494.4	39.52	-34.48	74	43.99	27.8	4.8	37.07	158	223	P	V
		2494.4	14.73	-39.27	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	96.16	-	-	100.64	27.8	4.79	37.07	105	224	P	H
	*	2480	71.37	-	-	-	-	-	-	-	-	A	H
		2483.6	42.07	-31.93	74	46.55	27.8	4.79	37.07	105	224	P	H
		2483.6	17.28	-36.72	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	101.2	-	-	105.68	27.8	4.79	37.07	224	217	P	V
	*	2480	76.41	-	-	-	-	-	-	-	-	A	V
		2483.64	46.08	-27.92	74	50.56	27.8	4.79	37.07	224	217	P	V
		2483.64	21.29	-32.71	54	-	-	-	-	-	-	A	V
													V
													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	39.26	-34.74	74	57.05	32.32	7.29	57.4	-	-	P	H
		4804	14.47	-39.53	54	-	-	-	-	-	-	A	H
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		4804	39.25	-34.75	74	57.04	32.32	7.29	57.4	-	-	P	V
		4804	14.46	-39.54	54	-	-	-	-	-	-	A	V
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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	40.98	-33.02	74	57.97	32.66	7.53	57.18	-	-	P	H
		4882	16.19	-37.81	54	-	-	-	-	-	-	A	H
		7323	45.51	-28.49	74	55.98	36.91	9.47	56.85	-	-	P	H
		7323	20.72	-33.28	54	-	-	-	-	-	-	A	H
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		4882	41.41	-32.59	74	58.4	32.66	7.53	57.18	-	-	P	V
		4882	16.62	-37.38	54	-	-	-	-	-	-	A	V
		7323	45.56	-28.44	74	56.03	36.91	9.47	56.85	-	-	P	V
		7323	20.77	-33.23	54	-	-	-	-	-	-	A	V
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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	41.46	-32.54	74	57.58	33.06	7.77	56.95	-	-	P	H
		4960	16.67	-37.33	54	-	-	-	-	-	-	A	H
		7440	44.58	-29.42	74	55.75	36.42	9.46	57.05	-	-	P	H
		7440	19.79	-34.21	54	-	-	-	-	-	-	A	H
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		4960	42.24	-31.76	74	58.36	33.06	7.77	56.95	-	-	P	V
		4960	17.45	-36.55	54	-	-	-	-	-	-	A	V
		7440	45.2	-28.8	74	56.37	36.42	9.46	57.05	-	-	P	V
		7440	20.41	-33.59	54	-	-	-	-	-	-	A	V
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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.												

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)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT SHF		24629	40.74	-33.26	74	57.44	39.16	-2.41	53.45	-	-	P	H
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		23964	41.69	-32.31	74	59.56	38.7	-2.65	53.92	-	-	P	V
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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		45.93	27.95	-12.05	40	42.64	16.43	1.27	32.39	-	-	P	H
		180.93	27.24	-16.26	43.5	42.9	14.81	1.8	32.27	-	-	P	H
		270.03	27.26	-18.74	46	38.42	19	2.05	32.21	-	-	P	H
		621.3	27.51	-18.49	46	30.92	26.08	2.75	32.24	-	-	P	H
		708.8	37.23	-8.77	46	39.71	26.78	2.91	32.17	-	-	P	H
		901.3	39.97	-6.03	46	39.23	29.03	3.23	31.52	-	-	P	H
													H
													H
													H
													H
													H
													H
		45.93	33.28	-6.72	40	47.97	16.43	1.27	32.39	100	23	Q	V
		57.27	31.54	-8.46	40	50.56	12.02	1.29	32.33	-	-	P	V
		179.85	28.73	-14.77	43.5	44.2	15	1.8	32.27	-	-	P	V
		716.5	31.18	-14.82	46	33.37	27.06	2.92	32.17	-	-	P	V
		832	31.03	-14.97	46	31.14	28.62	3.13	31.86	-	-	P	V
		900.6	36.63	-9.37	46	35.92	29.01	3.23	31.53	-	-	P	V
													V
													V
												V	
												V	
												V	
												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 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.
					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

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)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jacky Hung , Mancy Chou and Rain Lee	Temperature :	20~26°C
		Relative Humidity :	40~65%

Note symbol

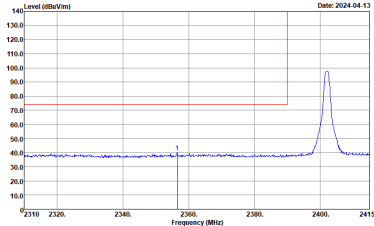
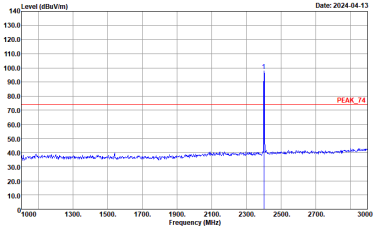
-L	Low channel location
-R	High channel location



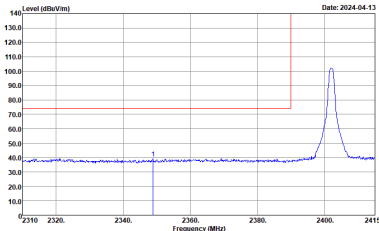
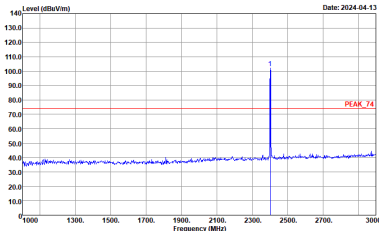
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2.4GHz 2400~2483.5MHz

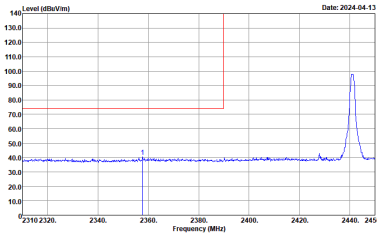
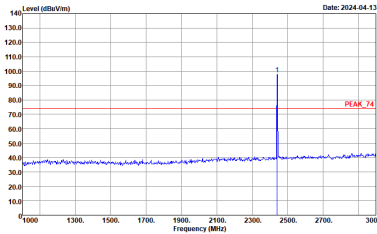
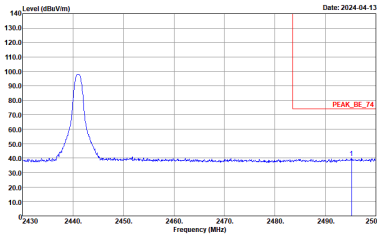
BT (Band Edge @ 3m)

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_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

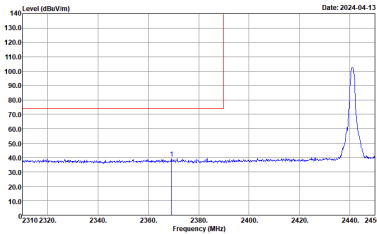
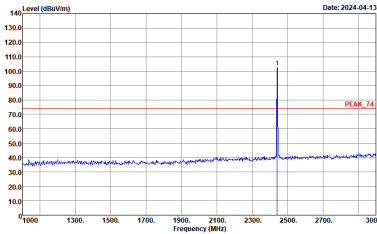
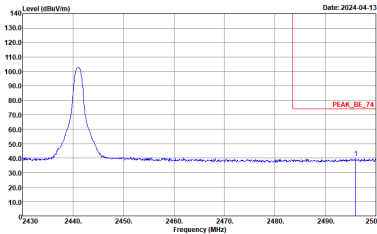


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BC_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 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_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 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	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

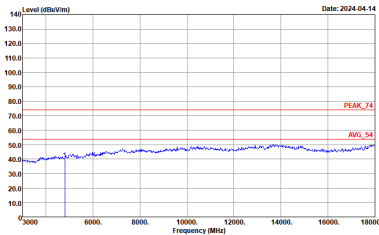
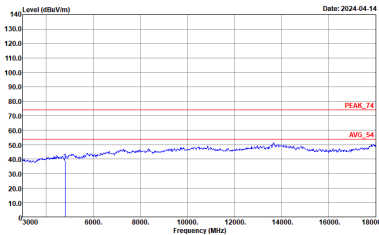


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

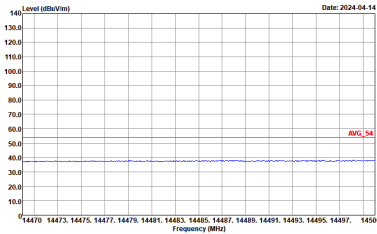
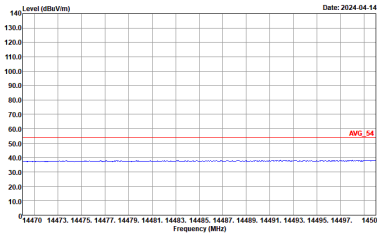
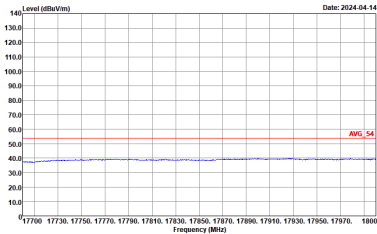
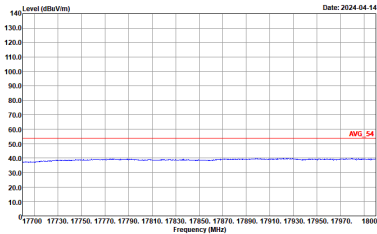


2.4GHz 2400~2483.5MHz

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_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL :

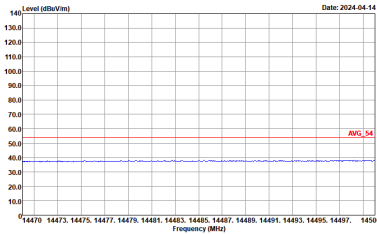
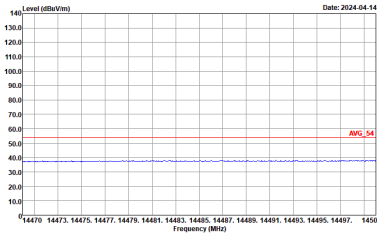
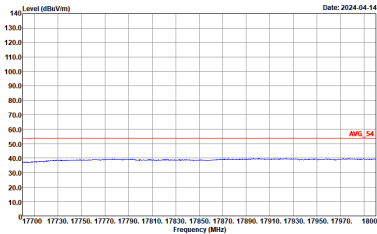
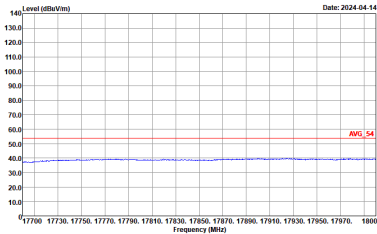


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :
17.7G ~18G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :

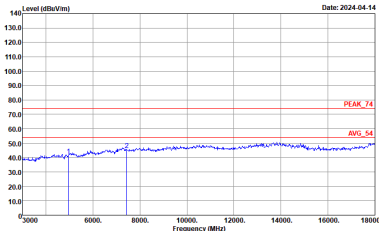
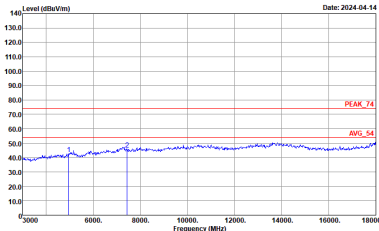


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL	Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL

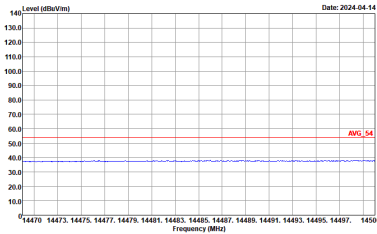
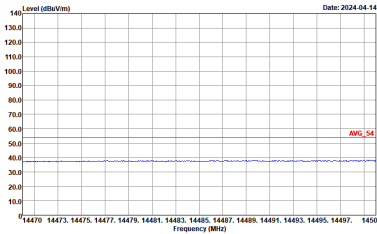
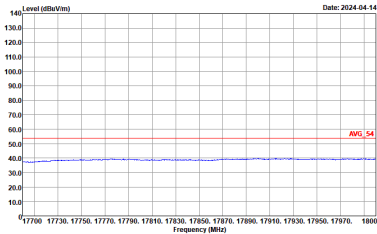
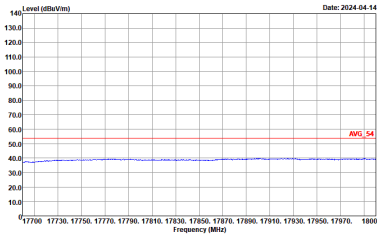


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :
17.7G ~18G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :
17.7G ~18G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :

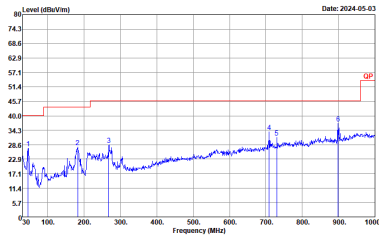
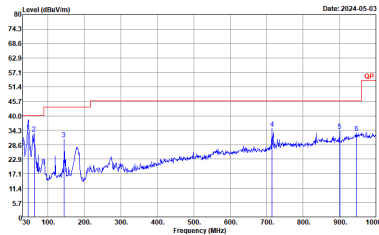


BT	2.4GHz 2400~2483.5MHz	
	BT SHF	
	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 1m SHF_00993 HORIZONTAL :	Site : 03CH13-HY Condition : PEAK_74 1m SHF_00993 VERTICAL :



Emission below 1GHz

2.4GHz BT (LF)

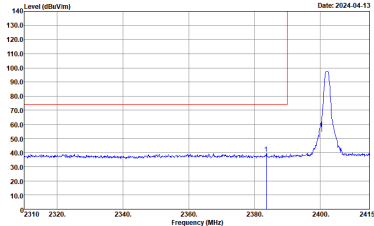
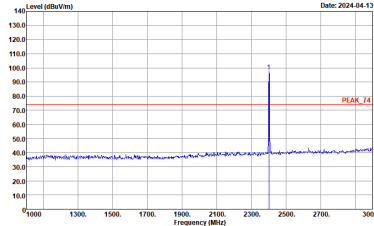
BT	2.4GHz 2400~2483.5MHz	
	BT LF	
	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BIL06_40103 HORIZONTAL :	 Site : 03CH13-HY Condition : QP 3m BIL06_40103 VERTICAL :



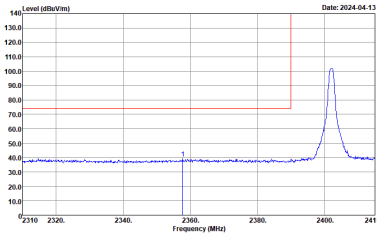
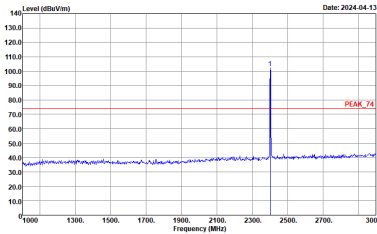
<Ant. 1>

2.4GHz 2400~2483.5MHz

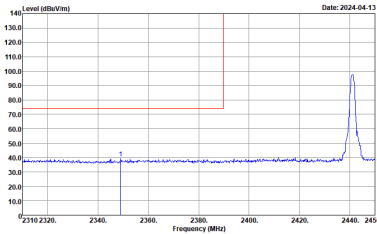
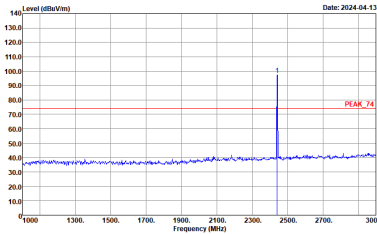
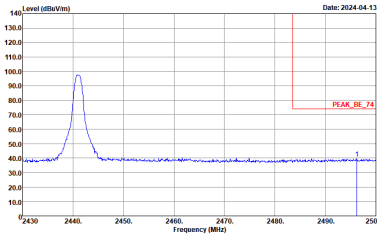
BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH13-HV Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

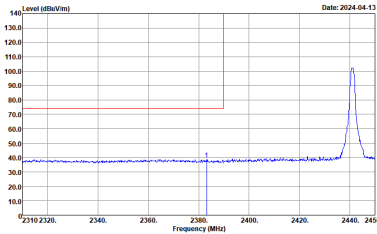
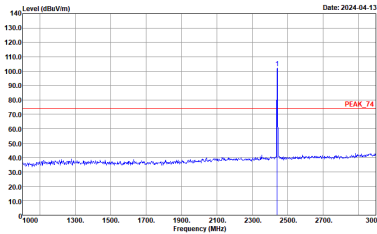
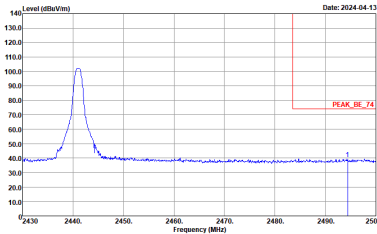


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH00 2402MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BC_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

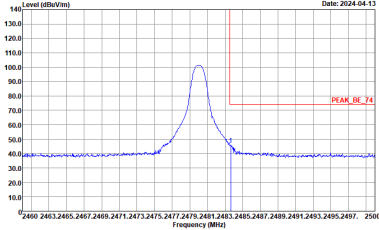
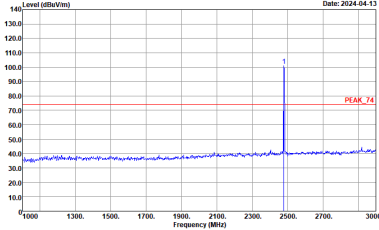


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH39 2441MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 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	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

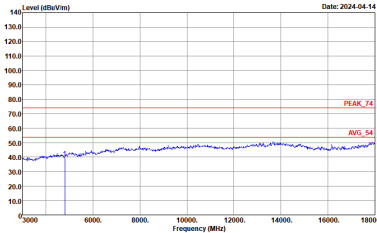
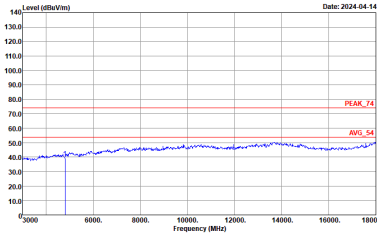


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

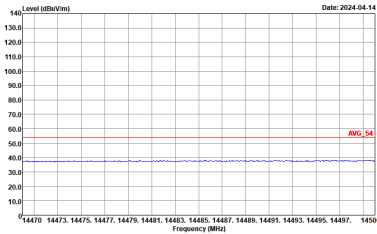
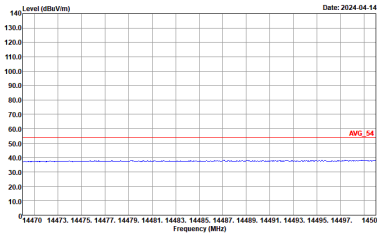
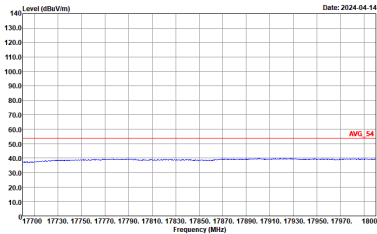
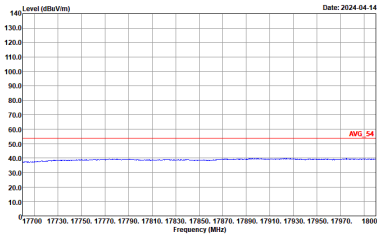


2.4GHz 2400~2483.5MHz

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_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL :

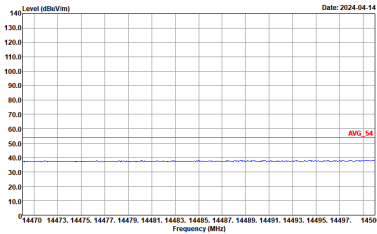
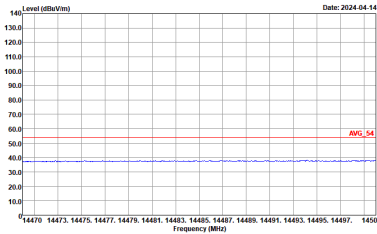
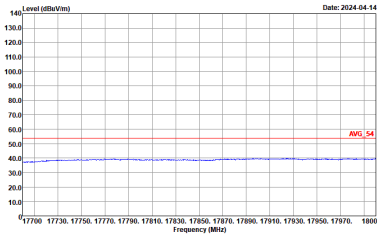
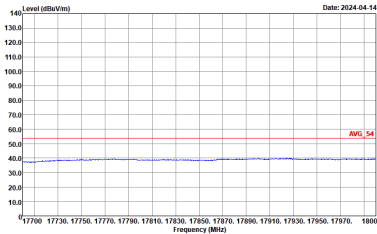


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH00 2402MHz	
	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :
17.7G ~18G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :

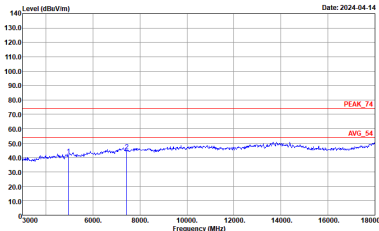
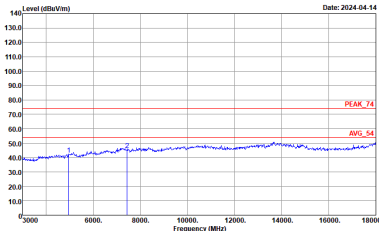


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-04-14 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL :	Level (dBuV/m) Date: 2024-04-14 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL :

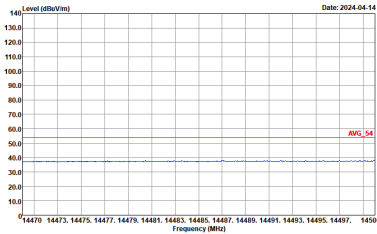
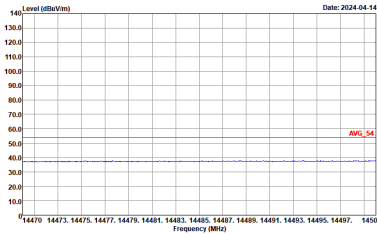
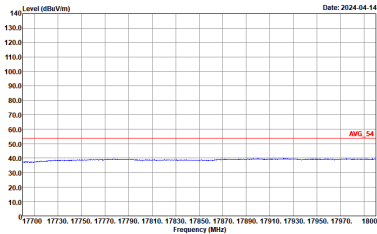
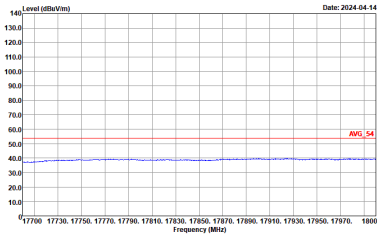


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH39 2441MHz	
	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :
17.7G ~18G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL :



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :
17.7G ~18G Avg.	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL :	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL :



Emission above 18GHz

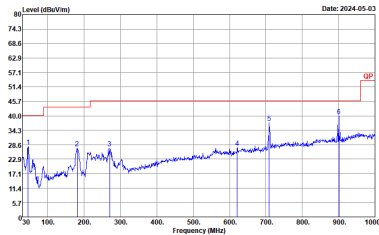
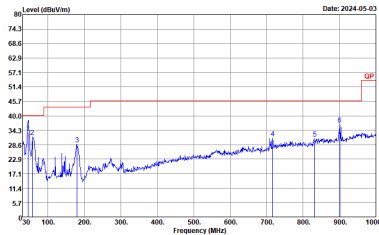
2.4GHz BT (SHF @ 1m)

BT	2.4GHz 2400~2483.5MHz	
	BT SHF	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2024-05-08 Site : 03CH13-HY Condition : PEAK_74 1m SHF_00993 HORIZONTAL :	Level (dBuV/m) Date: 2024-05-08 Site : 03CH13-HY Condition : PEAK_74 1m SHF_00993 VERTICAL :



Emission below 1GHz

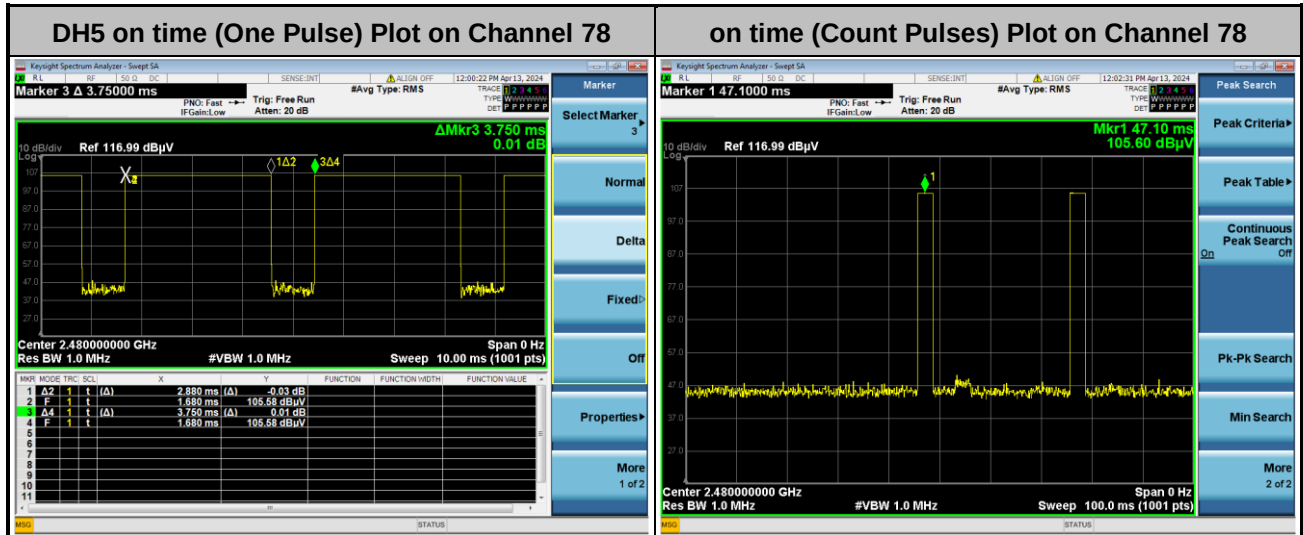
2.4GHz BT (LF)

BT	2.4GHz 2400~2483.5MHz	
	BT LF	
	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BIL06_40103 HORIZONTAL :	 Site : 03CH13-HY Condition : QP 3m BIL06_40103 VERTICAL :



Appendix D. Duty Cycle Plots

<Ant. 0>



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 \times 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -24.79 \text{ dB}$
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

$$2.88 \text{ ms} \times 20 \text{ channels} = 57.6 \text{ ms}$$

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. $[100 \text{ ms} / 57.6 \text{ ms}] = 2 \text{ hops}$

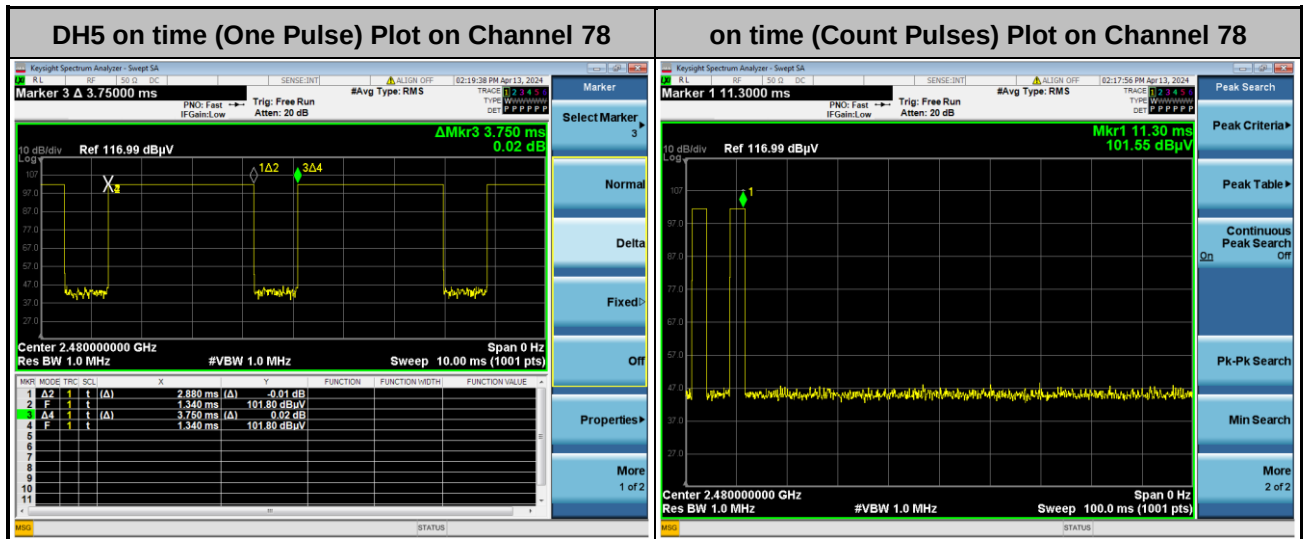
Thus, the maximum possible ON time:

$$2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$$

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

$$20 \times \log(5.76 \text{ ms}/100 \text{ ms}) = -24.79 \text{ dB}$$

<Ant. 1>



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.

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

$$2.88 \text{ ms} \times 20 \text{ channels} = 57.6 \text{ ms}$$

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. $[100 \text{ ms} / 57.6 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

$$2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$$

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

$$20 \times \log(5.76 \text{ ms}/100 \text{ ms}) = -24.79 \text{ dB}$$