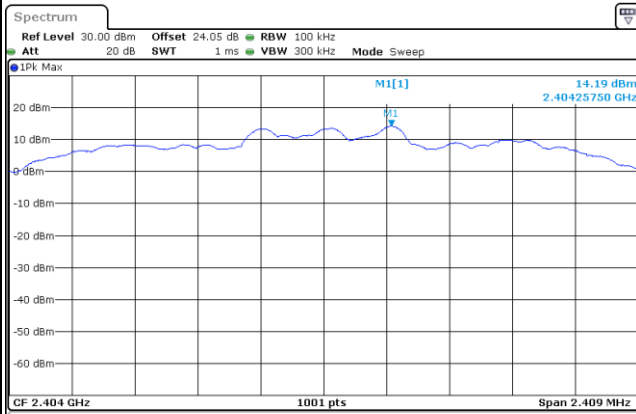




Band Edge and Spurious Emission

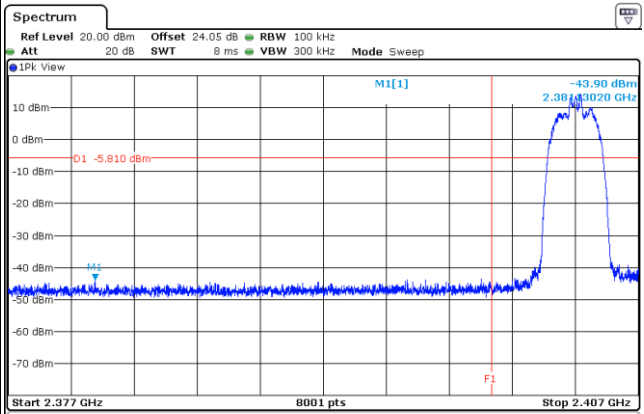
< HR 4Mbps > Channel 02

100kHz PSD reference Level Plot



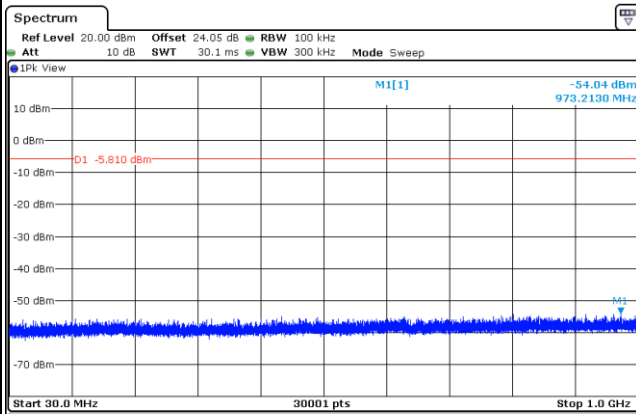
Date: 13.MAY.2023 19:53:27

Low Channel Plot



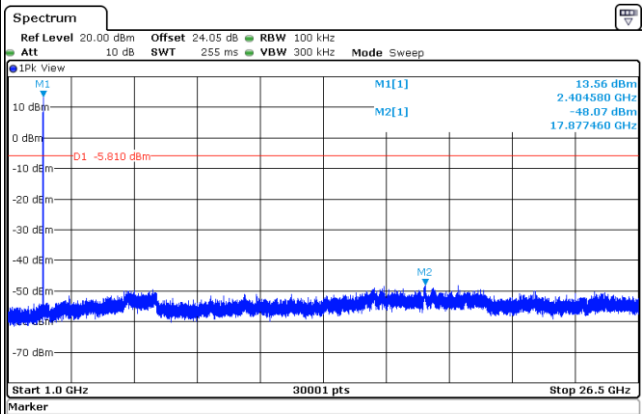
Date: 13.MAY.2023 19:55:14

Spurious Emission 30MHz~3GHz Plot

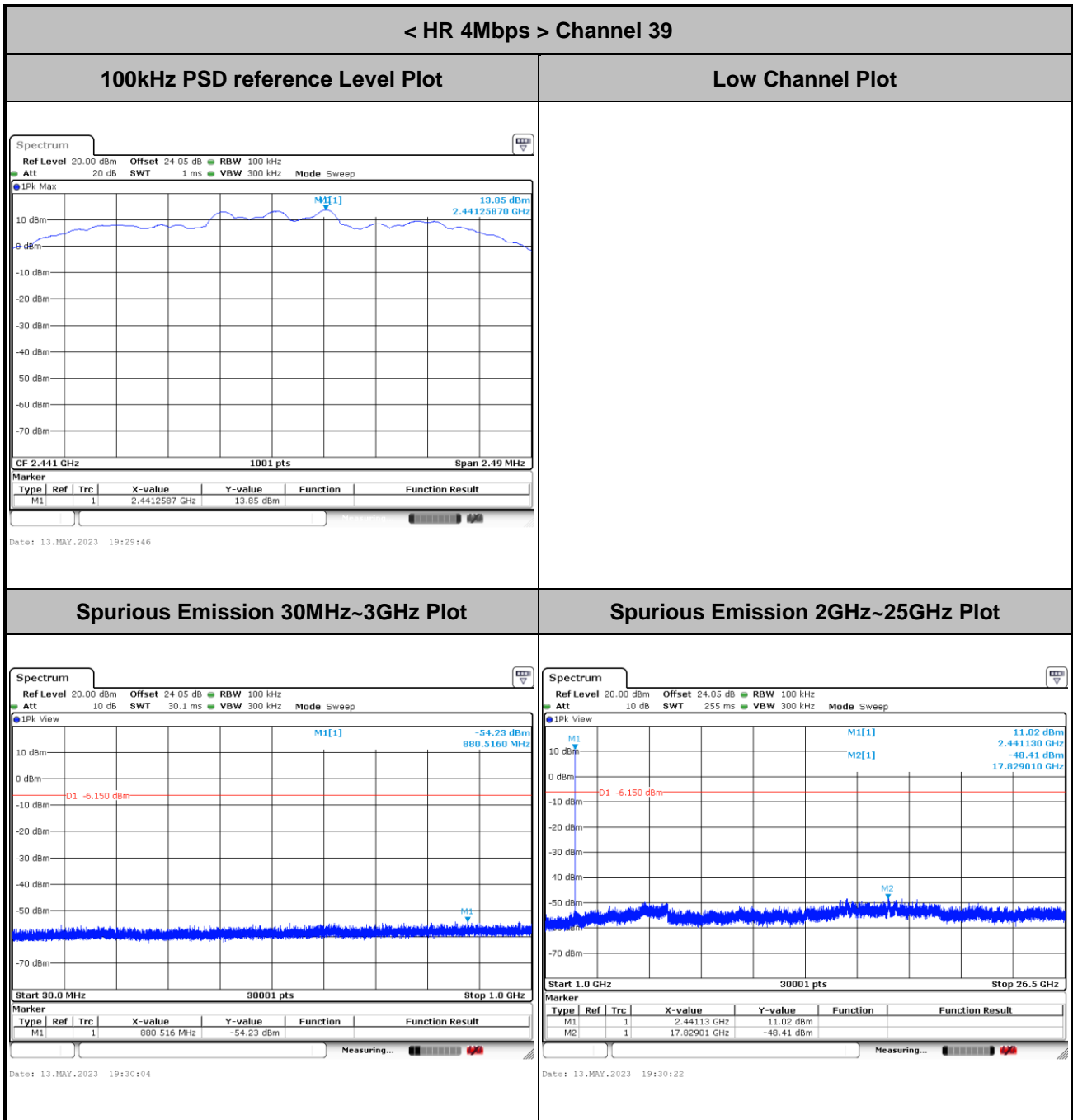


Date: 13.MAY.2023 19:53:45

Spurious Emission 2GHz~25GHz Plot



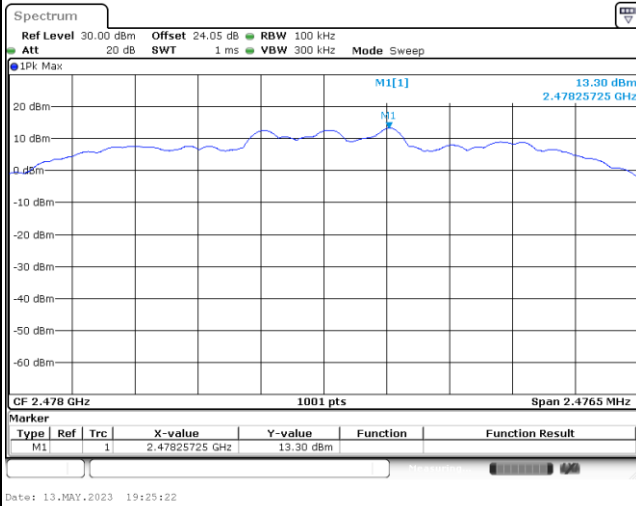
Date: 13.MAY.2023 19:54:02



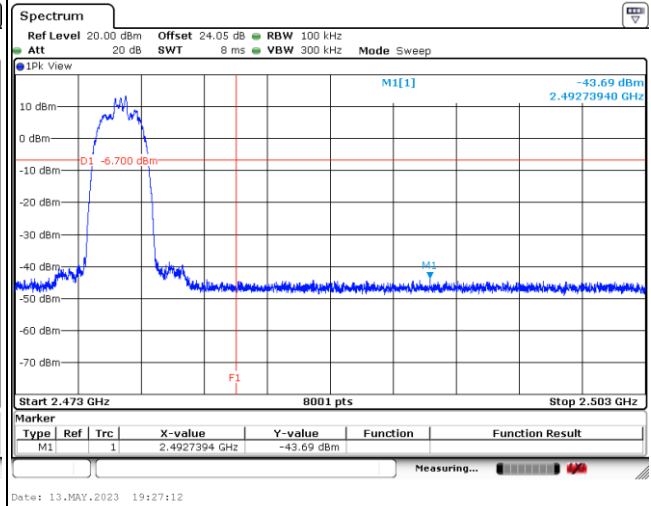


< HR 4Mbps > Channel 76

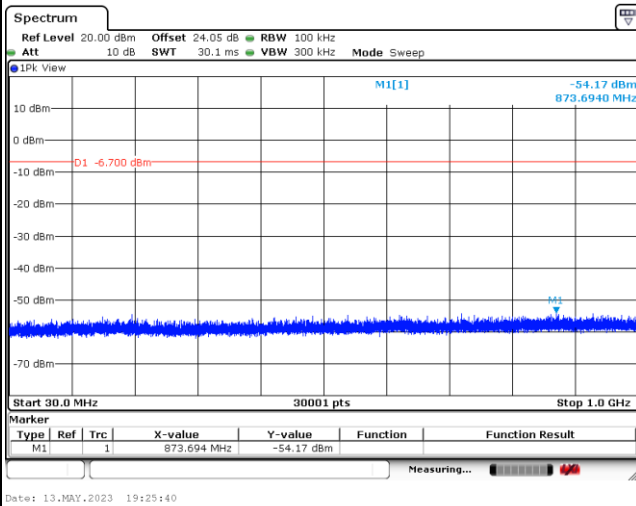
100kHz PSD reference Level Plot



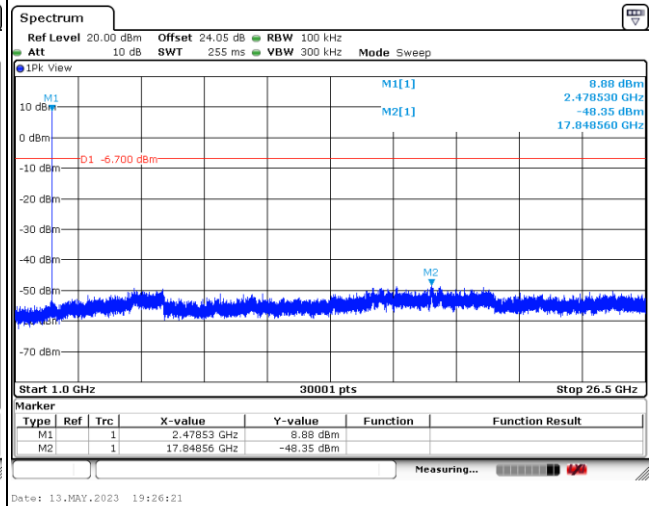
Low Channel Plot



Spurious Emission 30MHz~3GHz Plot



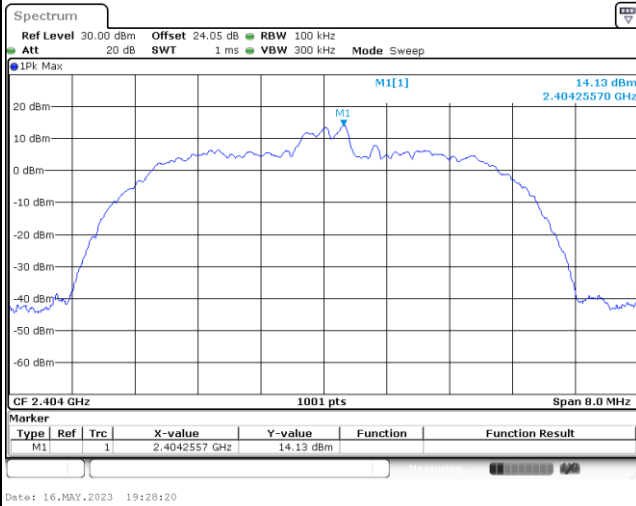
Spurious Emission 2GHz~25GHz Plot



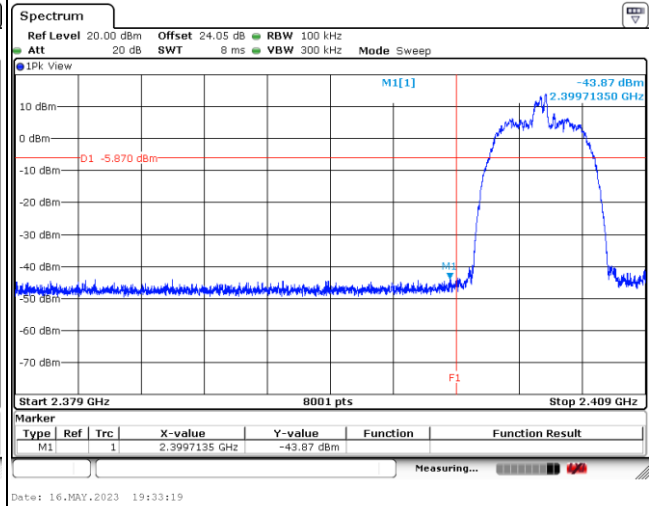


< HR 8Mbps > Channel 02

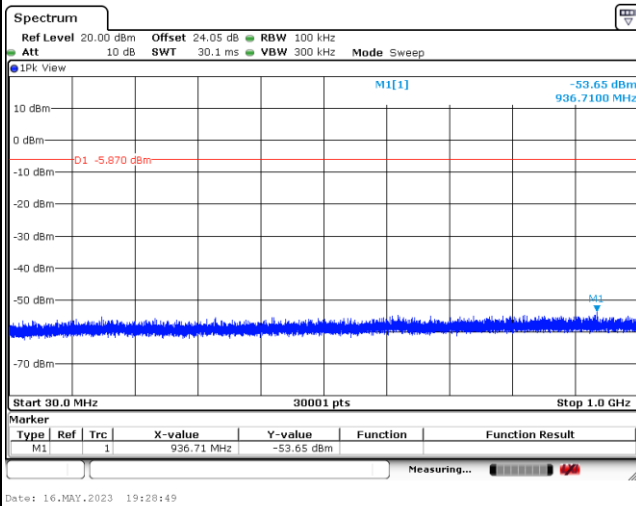
100kHz PSD reference Level Plot



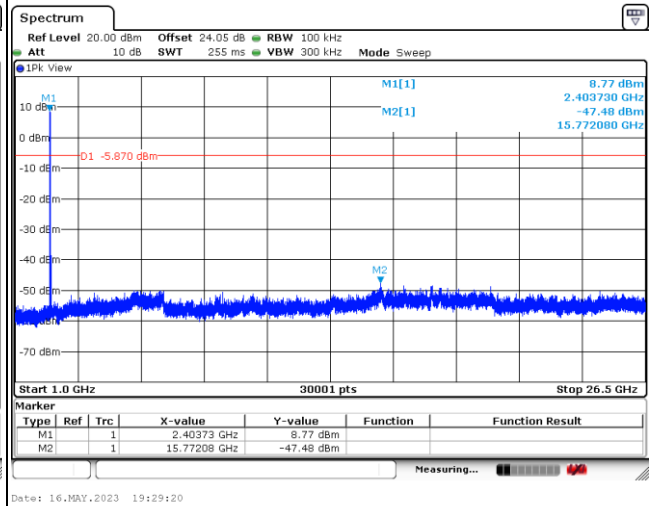
Low Channel Plot



Spurious Emission 30MHz~3GHz Plot



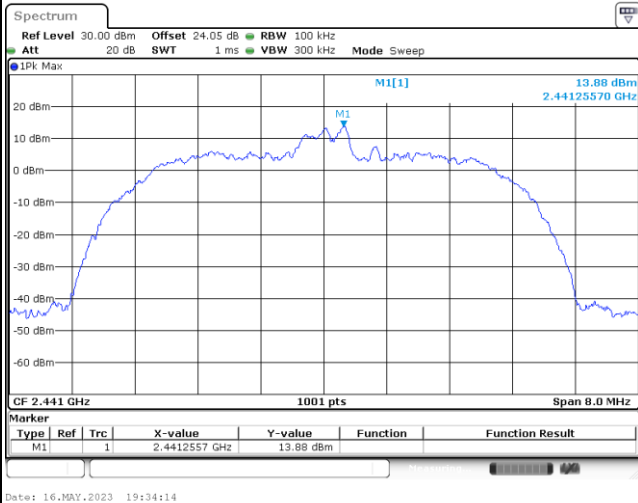
Spurious Emission 2GHz~25GHz Plot





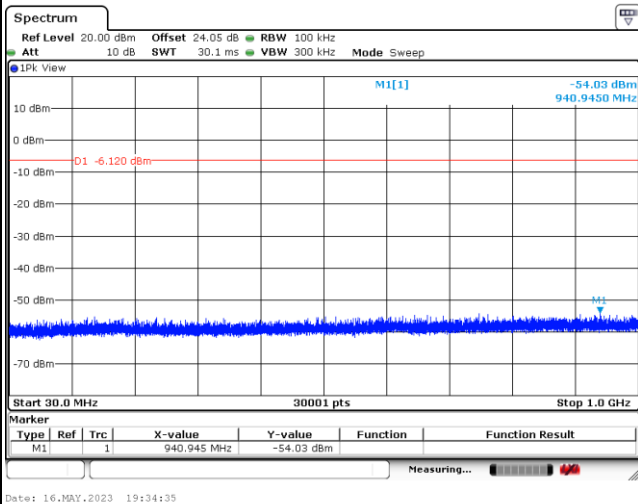
< HR 8Mbps > Channel 39

100kHz PSD reference Level Plot

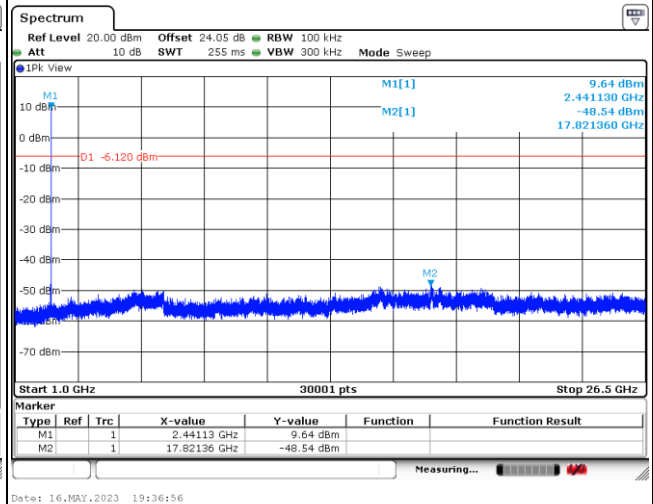


Low Channel Plot

Spurious Emission 30MHz~3GHz Plot



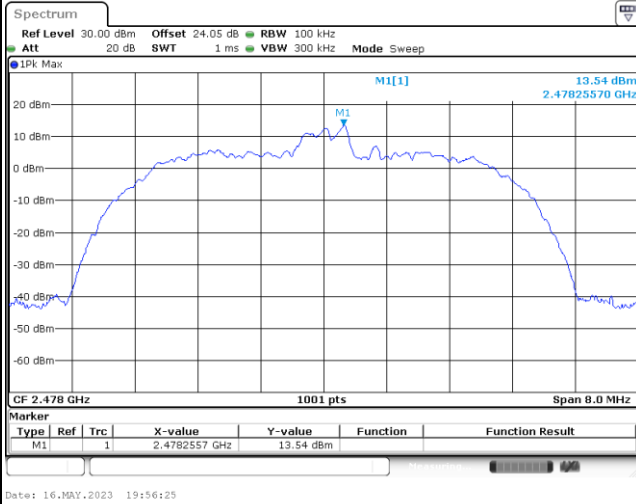
Spurious Emission 2GHz~25GHz Plot



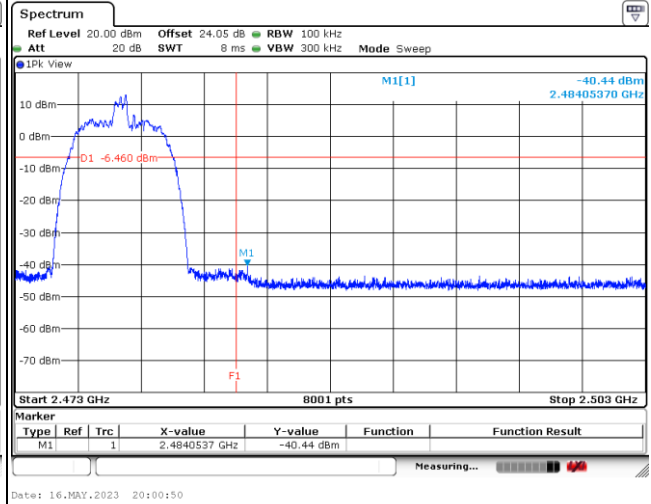


< HR 8Mbps > Channel 76

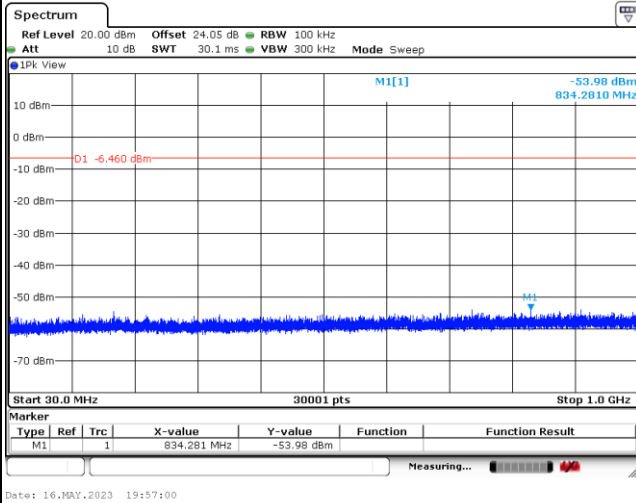
100kHz PSD reference Level Plot



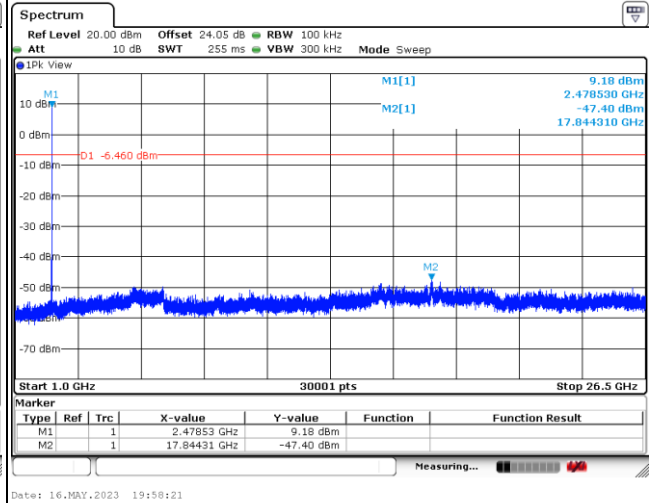
Low Channel Plot



Spurious Emission 30MHz~3GHz Plot



Spurious Emission 2GHz~25GHz Plot





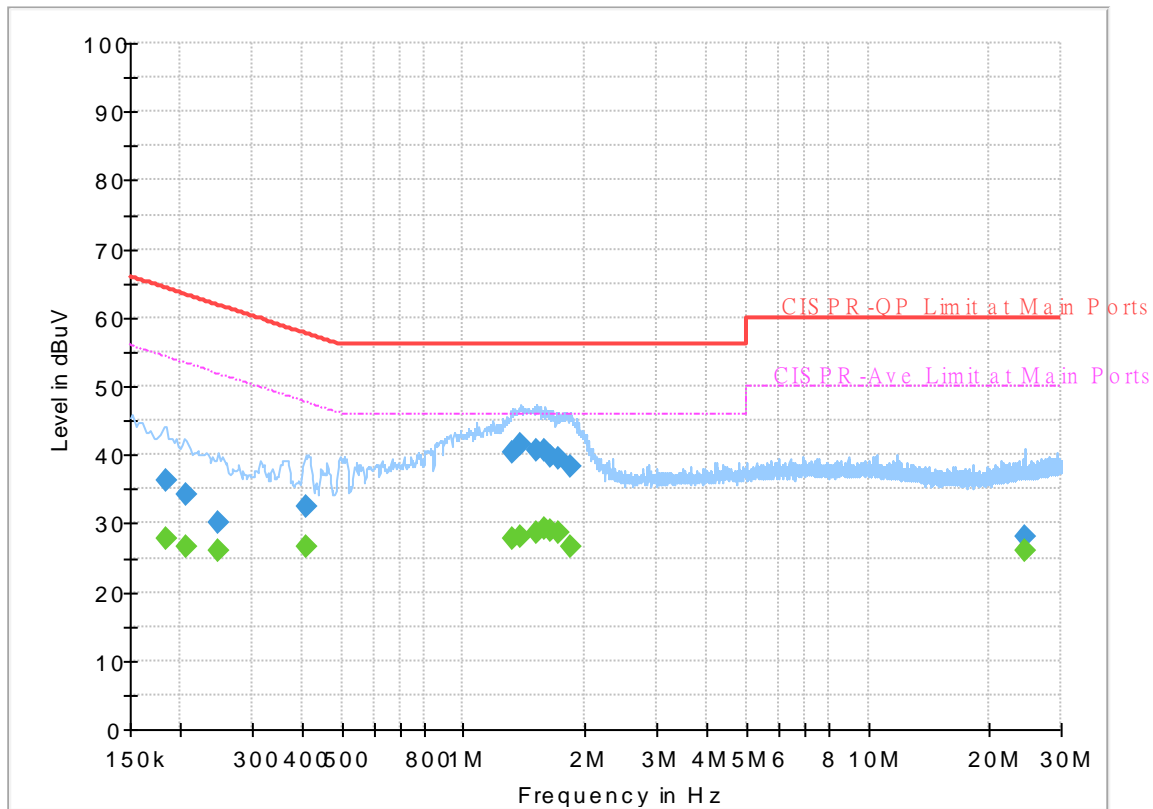
Appendix B. AC Conducted Emission Test Results

Test Engineer : Calvin Wang	Temperature : 23~26°C
	Relative Humidity : 45~55%

EUT Information

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

Full Spectrum



Final_Result

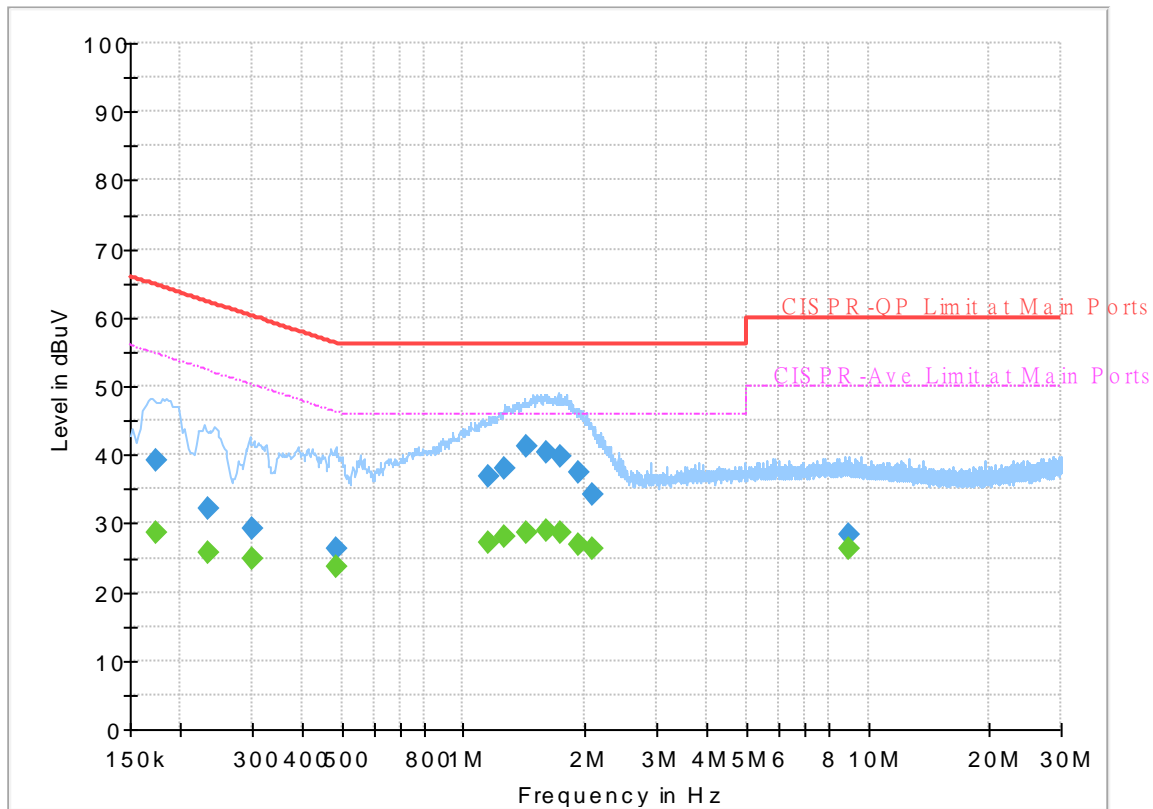
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.183750	---	27.76	54.31	26.55	L1	OFF	19.9
0.183750	36.24	---	64.31	28.07	L1	OFF	19.9
0.206250	---	26.60	53.36	26.76	L1	OFF	19.9
0.206250	34.10	---	63.36	29.26	L1	OFF	19.9
0.249000	---	26.01	51.79	25.78	L1	OFF	19.9
0.249000	30.25	---	61.79	31.54	L1	OFF	19.9
0.408750	---	26.52	47.67	21.15	L1	OFF	19.9
0.408750	32.31	---	57.67	25.36	L1	OFF	19.9
1.324500	---	27.77	46.00	18.23	L1	OFF	19.9
1.324500	40.28	---	56.00	15.72	L1	OFF	19.9
1.387500	---	28.00	46.00	18.00	L1	OFF	19.9
1.387500	41.62	---	56.00	14.38	L1	OFF	19.9
1.511250	---	28.76	46.00	17.24	L1	OFF	19.9
1.511250	40.71	---	56.00	15.29	L1	OFF	19.9
1.594500	---	29.33	46.00	16.67	L1	OFF	19.9
1.594500	40.55	---	56.00	15.45	L1	OFF	19.9
1.641750	---	29.08	46.00	16.92	L1	OFF	19.9
1.641750	39.79	---	56.00	16.21	L1	OFF	19.9
1.716000	---	28.59	46.00	17.41	L1	OFF	19.9
1.716000	39.47	---	56.00	16.53	L1	OFF	19.9
1.833000	---	26.60	46.00	19.40	L1	OFF	19.9

1.833000	38.41	---	56.00	17.59	L1	OFF	19.9
24.319500	---	26.12	50.00	23.88	L1	OFF	20.6
24.319500	27.99	---	60.00	32.01	L1	OFF	20.6

EUT Information

Report NO :
 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)
0.174750	---	28.76	54.73	25.97	N	OFF	19.9
0.174750	39.20	---	64.73	25.53	N	OFF	19.9
0.233250	---	25.83	52.33	26.50	N	OFF	19.9
0.233250	32.18	---	62.33	30.15	N	OFF	19.9
0.300750	---	24.97	50.22	25.25	N	OFF	19.9
0.300750	29.13	---	60.22	31.09	N	OFF	19.9
0.483180	---	23.71	46.28	22.57	N	OFF	19.9
0.483180	26.26	---	56.28	30.02	N	OFF	19.9
1.155750	---	27.17	46.00	18.83	N	OFF	19.9
1.155750	36.97	---	56.00	19.03	N	OFF	19.9
1.261770	---	28.00	46.00	18.00	N	OFF	19.9
1.261770	38.13	---	56.00	17.87	N	OFF	19.9
1.428990	---	28.80	46.00	17.20	N	OFF	19.9
1.428990	41.27	---	56.00	14.73	N	OFF	19.9
1.599090	---	28.83	46.00	17.17	N	OFF	19.9
1.599090	40.44	---	56.00	15.56	N	OFF	19.9
1.744800	---	28.65	46.00	17.35	N	OFF	19.9
1.744800	39.71	---	56.00	16.29	N	OFF	19.9
1.931640	---	26.95	46.00	19.05	N	OFF	19.9
1.931640	37.52	---	56.00	18.48	N	OFF	19.9
2.096250	---	26.24	46.00	19.76	N	OFF	19.9

2.096250	34.08	---	56.00	21.92	N	OFF	19.9
8.922750	---	26.20	50.00	23.80	N	OFF	20.2
8.922750	28.29	---	60.00	31.71	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Qun, Gary Guo and Steven Wu	Temperature :	20~25°C
		Relative Humidity :	50~65 %

MIMO <Ant. 3+4>

<1 Mbps>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE ANT 4+3	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)	
BLE CH 00 2402MHz		2375.835	54.22	-19.78	74	40.1	27.26	7.41	30.47	107	32	P	H	
		2369.325	44.54	-9.46	54	30.49	27.2	7.4	30.47	107	32	A	H	
	*	2402	112.44	-	-	98.12	27.4	7.46	30.46	107	32	P	H	
	*	2402	112.09	-	-	97.77	27.4	7.46	30.46	107	32	A	H	
													H	
														H
			2356.095	55.41	-18.59	74	41.4	27.2	7.37	30.48	121	271	P	V
			2386.965	44.57	-9.43	54	30.32	27.37	7.43	30.47	121	271	A	V
	*		2402	116.94	-	-	102.62	27.4	7.46	30.46	121	271	P	V
	*		2402	116.28	-	-	101.96	27.4	7.46	30.46	121	271	A	V
														V
														V



BLE ANT 4+3	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)
BLE CH 19 2440MHz		2366.84	54.6	-19.4	74	40.56	27.2	7.39	30.47	304	43	P	H
		2388.68	44.36	-9.64	54	30.08	27.39	7.44	30.47	304	43	A	H
	*	2440	113.71	-	-	99.12	27.6	7.52	30.45	304	43	P	H
	*	2440	113.26	-	-	98.67	27.6	7.52	30.45	304	43	A	H
		2492.72	55.29	-18.71	74	40.4	27.8	7.6	30.43	304	43	P	H
		2494.4	45.28	-8.72	54	30.39	27.8	7.6	30.43	304	43	A	H
		2325.68	54.18	-19.82	74	40.31	27.14	7.3	30.49	100	274	P	V
		2389.52	44.19	-9.81	54	29.9	27.4	7.44	30.47	100	274	A	V
	*	2440	116.07	-	-	101.48	27.6	7.52	30.45	100	274	P	V
	*	2440	115.68	-	-	101.09	27.6	7.52	30.45	100	274	A	V
		2490.97	54.76	-19.24	74	39.87	27.8	7.6	30.43	100	274	P	V
		2490.13	45.16	-8.84	54	30.27	27.8	7.6	30.43	100	274	A	V



BLE ANT 4+3	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)	
BLE CH 39 2480MHz	*	2480	112.75	-	-	97.99	27.7	7.58	30.44	295	20	P	H	
	*	2480	112.38	-	-	97.62	27.7	7.58	30.44	295	20	A	H	
		2488.12	54.77	-19.23	74	39.91	27.78	7.59	30.43	295	20	P	H	
		2484.4	45.37	-8.63	54	30.55	27.74	7.59	30.43	295	20	A	H	
													H	
													H	
	*	2480	115.04	-	-	100.28	27.7	7.58	30.44	109	86	P	V	
	*	2480	114.38	-	-	99.62	27.7	7.58	30.44	109	86	A	V	
		2483.8	56.18	-17.82	74	41.37	27.74	7.59	30.44	109	86	P	V	
		2483.52	45.58	-8.42	54	30.77	27.74	7.59	30.44	109	86	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
BLE (Harmonic @ 3m)

BLE ANT 4+3	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)
		4804	45.87	-28.13	74	68.9	32.32	10.79	66.65	100	125	P	H
		4804	40.57	-13.43	54	63.6	32.32	10.79	66.65	100	125	A	H
													H
													H
													H
													H
													H
													H
													H
													H
BLE CH 00 2402MHz		4804	44.06	-29.94	74	67.09	32.32	10.79	66.65	102	177	P	V
		4804	36.56	-17.44	54	59.59	32.32	10.79	66.65	102	177	A	V
													V
													V
													V
													V
													V
													V
													V
													V



BLE ANT 4+3	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)	
BLE CH 19 2440MHz		4880	45.87	-28.13	74	68.44	32.66	10.85	66.58	100	124	P	H	
		4880	39.7	-14.3	54	62.27	32.66	10.85	66.58	100	124	A	H	
		7320	43.43	-30.57	74	59.41	36.86	12.99	66.33	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4880	40.78	-33.22	74	63.35	32.66	10.85	66.58	-	-	P	V
			7320	43.88	-30.12	74	59.86	36.86	12.99	66.33	-	-	P	V
														V
														V
														V
														V
														V
														V
														V



BLE ANT 4+3	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)	
BLE CH 39 2480MHz		4960	46.17	-27.83	74	68.39	32.88	10.92	66.51	200	124	P	H	
		4960	40.37	-13.63	54	62.59	32.88	10.92	66.51	200	124	A	H	
		7440	43.26	-30.74	74	59.71	36.44	13.04	66.38	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4960	46.71	-27.29	74	68.93	32.88	10.92	66.51	106	203	P	V
			4960	40.7	-13.3	54	62.92	32.88	10.92	66.51	106	203	A	V
			7440	42.81	-31.19	74	59.26	36.44	13.04	66.38	-	-	P	V
														V
														V
														V
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



MIMO <Ant. 3+4>

<2 Mbps>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE ANT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
BLE CH 00 2402MHz		2376.675	53.54	-20.46	74	39.41	27.27	17.33	30.47	210	12	P	H	
		2379.825	43.61	-10.39	54	29.44	27.3	17.34	30.47	210	12	A	H	
	*	2402	113.01	-	-	98.69	27.4	17.38	30.46	210	12	P	H	
	*	2402	111.18	-	-	96.86	27.4	17.38	30.46	210	12	A	H	
													H	
													H	
			2324.805	54.14	-19.86	74	40.26	27.15	17.22	30.49	124	235	P	V
			2389.695	43.62	-10.38	54	29.33	27.4	17.36	30.47	124	235	A	V
	*		2402	117.32	-	-	103	27.4	17.38	30.46	124	235	P	V
	*		2402	115.71	-	-	101.39	27.4	17.38	30.46	124	235	A	V
													V	
													V	
BLE CH 19 2440MHz		2385.04	53.84	-20.16	74	39.61	27.35	17.35	30.47	209	15	P	H	
		2384.34	43.47	-10.53	54	29.25	27.34	17.35	30.47	209	15	A	H	
	*	2440	113.68	-	-	99.09	27.6	17.44	30.45	209	15	P	H	
	*	2440	111.98	-	-	97.39	27.6	17.44	30.45	209	15	A	H	
			2494.54	54.13	-19.87	74	39.24	27.8	17.52	30.43	209	15	P	H
			2488.03	44.37	-9.63	54	29.51	27.78	17.51	30.43	209	15	A	H
			2314.76	54.17	-19.83	74	40.26	27.2	17.2	30.49	100	238	P	V
			2387.84	43.6	-10.4	54	29.34	27.38	17.35	30.47	100	238	A	V
	*		2440	117.2	-	-	102.61	27.6	17.44	30.45	100	238	P	V
	*		2440	114.34	-	-	99.75	27.6	17.44	30.45	100	238	A	V
			2487.75	55.09	-18.91	74	40.23	27.78	17.51	30.43	100	238	P	V
			2499.16	44.47	-9.53	54	29.57	27.8	17.53	30.43	100	238	A	V



BLE ANT 4+3	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)	
BLE CH 39 2480MHz	*	2480	110.99	-	-	96.23	27.7	17.5	30.44	293	137	P	H	
	*	2480	109.36	-	-	94.6	27.7	17.5	30.44	293	137	A	H	
		2483.6	56.5	-17.5	74	41.69	27.74	17.51	30.44	293	137	P	H	
		2483.52	49.57	-4.43	54	34.76	27.74	17.51	30.44	293	137	A	H	
													H	
													H	
	*	2480	111.16	-	-	96.4	27.7	17.5	30.44	110	211	P	V	
	*	2480	109.05	-	-	94.29	27.7	17.5	30.44	110	211	A	V	
		2483.52	57.25	-16.75	74	42.44	27.74	17.51	30.44	110	211	P	V	
		2483.52	50.42	-3.58	54	35.61	27.74	17.51	30.44	110	211	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
BLE (Harmonic @ 3m)

BLE ANT 4+3	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)
BLE ANT 4+3		4804	46.53	-27.47	74	69.56	32.32	11.3	66.65	100	123	P	H
		4804	39.41	-14.59	54	62.44	32.32	11.3	66.65	100	123	A	H
													H
													H
													H
													H
													H
													H
													H
													H
BLE CH 00 2402MHz		4804	43.76	-30.24	74	66.82	32.3	11.3	66.66	104	89	P	V
		4804	35.73	-18.27	54	58.79	32.3	11.3	66.66	104	89	A	V
													V
													V
													V
													V
													V
													V
													V
													V



BLE ANT 4+3	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)	
BLE CH 19 2440MHz		4880	44.85	-29.15	74	67.42	32.66	11.35	66.58	100	123	P	H	
		4880	37.68	-16.32	54	60.25	32.66	11.35	66.58	100	123	A	H	
		7320	45.08	-28.92	74	61.06	36.86	13.49	66.33	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4880	41.69	-32.31	74	64.26	32.66	11.35	66.58	-	-	P	V
			7320	43.18	-30.82	74	59.16	36.86	13.49	66.33	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	



BLE ANT 4+3	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)	
BLE CH 39 2480MHz		4960	46.49	-27.51	74	68.71	32.88	11.41	66.51	200	123	P	H	
		4960	39.67	-14.33	54	61.89	32.88	11.41	66.51	200	123	A	H	
		7440	42.72	-31.28	74	59.17	36.44	13.49	66.38	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			4960	45.11	-28.89	74	67.33	32.88	11.41	66.51	100	199	P	V
			4960	38.15	-15.85	54	60.37	32.88	11.41	66.51	100	199	A	V
			7440	43.09	-30.91	74	59.54	36.44	13.49	66.38	-	-	P	V
														V
														V
														V
														V
														V
														V
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Emission above 18GHz

2.4GHz BLE (SHF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE SHF		23048	39.3	-34.7	74	57.76	38.8	-2.9	54.36	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			24056	39.29	-34.71	74	57.03	38.59	-2.57	53.76	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz BLE LF		39692	47.45	-26.55	74	59.98	44.17	-0.53	56.17	-	-	P	H	
		159.06	22.71	-20.79	43.5	36.43	16.64	1.93	32.29	-	-	P	H	
		190.11	26.85	-16.65	43.5	42.16	14.88	2.12	32.31	-	-	P	H	
		555.5	26.32	-19.68	46	29.62	25.66	3.64	32.6	-	-	P	H	
		756.4	29.85	-16.15	46	30.36	27.62	4.28	32.41	-	-	P	H	
		852.3	31.93	-14.07	46	30.78	28.66	4.56	32.07	-	-	P	H	
														H
														H
														H
														H
														H
														H
			39428	47.02	-26.98	74	59.88	44.31	-0.71	56.46	-	-	P	V
			93.72	23.6	-19.9	43.5	39.35	15.06	1.46	32.27	-	-	P	V
			161.76	26.8	-16.7	43.5	40.8	16.34	1.95	32.29	-	-	P	V
			556.9	27.23	-18.77	46	30.48	25.71	3.64	32.6	-	-	P	V
			741.7	29.49	-16.51	46	30.11	27.58	4.23	32.43	-	-	P	V
			957.3	32.97	-13.03	46	29.09	30.31	4.84	31.27	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



MIMO <Ant. 3+4>

<HR 4Mbps>

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 CH02 2404MHz		2373.84	54.02	-19.98	74	39.92	27.24	17.33	30.47	154	146	P	H	
		2389.38	43.05	-10.95	54	28.77	27.39	17.36	30.47	154	146	A	H	
	*	2404	109.7	-	-	95.37	27.4	17.39	30.46	154	146	P	H	
	*	2404	106.09	-	-	91.76	27.4	17.39	30.46	154	146	A	H	
													H	
														H
			2343.6	54.02	-19.98	74	40.04	27.2	17.26	30.48	123	259	P	V
			2389.905	43.2	-10.8	54	28.91	27.4	17.36	30.47	123	259	A	V
	*		2404	113.73	-	-	99.4	27.4	17.39	30.46	123	259	P	V
	*		2404	110.13	-	-	95.8	27.4	17.39	30.46	123	259	A	V
														V
														V
BT CH 39 2441MHz		2371.46	53.97	-20.03	74	39.91	27.21	17.32	30.47	131	143	P	H	
		2389.38	42.81	-11.19	54	28.53	27.39	17.36	30.47	131	143	A	H	
	*	2441	110.05	-	-	95.46	27.6	17.44	30.45	131	143	P	H	
	*	2441	106.67	-	-	92.08	27.6	17.44	30.45	131	143	A	H	
			2487.96	54.6	-19.4	74	39.74	27.78	17.51	30.43	131	143	P	H
			2493	43.7	-10.3	54	28.81	27.8	17.52	30.43	131	143	A	H
			2370.62	54.46	-19.54	74	40.4	27.21	17.32	30.47	100	244	P	V
			2386.86	42.8	-11.2	54	28.55	27.37	17.35	30.47	100	244	A	V
	*		2441	113.25	-	-	98.66	27.6	17.44	30.45	100	244	P	V
	*		2441	110	-	-	95.41	27.6	17.44	30.45	100	244	A	V
			2494.54	54.34	-19.66	74	39.45	27.8	17.52	30.43	100	244	P	V
			2485.23	43.69	-10.31	54	28.86	27.75	17.51	30.43	100	244	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 76 2478MHz	*	2478	110.74	-	-	95.98	27.7	17.5	30.44	108	145	P	H
	*	2478	106.99	-	-	92.23	27.7	17.5	30.44	108	145	A	H
		2483.6	54.96	-19.04	74	40.15	27.74	17.51	30.44	108	145	P	H
		2483.56	44.63	-9.37	54	29.82	27.74	17.51	30.44	108	145	A	H
													H
													H
	*	2478	112.29	-	-	97.53	27.7	17.5	30.44	114	266	P	V
	*	2478	108.8	-	-	94.04	27.7	17.5	30.44	114	266	A	V
		2493.92	55.61	-18.39	74	40.72	27.8	17.52	30.43	114	266	P	V
		2483.56	45.48	-8.52	54	30.67	27.74	17.51	30.44	114	266	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 CH02 2404MHz		4808	39.74	-34.26	74	62.73	32.35	11.31	66.65	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4808	40.43	-33.57	74	63.42	32.35	11.31	66.65	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													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	39.8	-34.2	74	62.36	32.66	11.36	66.58	-	-	P	H
		7323	44.6	-29.4	74	60.6	36.85	13.48	66.33	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4882	39.82	-34.18	74	62.38	32.66	11.36	66.58	-	-	P
		7323	43.72	-30.28	74	59.72	36.85	13.48	66.33	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													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 76 2478MHz		4956	40.32	-33.68	74	62.58	32.85	11.4	66.51	-	-	P	H
		7434	43.84	-30.16	74	60.29	36.46	13.47	66.38	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4956	39.48	-34.52	74	61.74	32.85	11.4	66.51	-	-	P
		7434	43.21	-30.79	74	59.66	36.46	13.47	66.38	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													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.												



MIMO <Ant. 3+4>

<HR 8Mbps>

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT ANT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
BT CH02 2404MHz		2327.115	53.67	-20.33	74	39.8	27.13	17.23	30.49	324	48	P	H	
		2386.02	43.2	-10.8	54	28.96	27.36	17.35	30.47	324	48	A	H	
	*	2404	109.4	-	-	95.07	27.4	17.39	30.46	324	48	P	H	
	*	2404	104.12	-	-	89.79	27.4	17.39	30.46	324	48	A	H	
													H	
														H
			2373.42	53.78	-20.22	74	39.7	27.23	17.32	30.47	100	297	P	V
			2388.75	43.29	-10.71	54	29.01	27.39	17.36	30.47	100	297	A	V
	*		2404	112.88	-	-	98.55	27.4	17.39	30.46	100	297	P	V
	*		2404	107.55	-	-	93.22	27.4	17.39	30.46	100	297	A	V
														V
														V
BT CH 39 2441MHz		2385.74	54.35	-19.65	74	40.11	27.36	17.35	30.47	307	49	P	H	
		2388.4	43.08	-10.92	54	28.81	27.38	17.36	30.47	307	49	A	H	
	*	2441	110.48	-	-	95.89	27.6	17.44	30.45	307	49	P	H	
	*	2441	105.16	-	-	90.57	27.6	17.44	30.45	307	49	A	H	
			2497.55	54.47	-19.53	74	39.57	27.8	17.53	30.43	307	49	P	H
			2485.58	43.85	-10.15	54	29.01	27.76	17.51	30.43	307	49	A	H
			2386.44	54.8	-19.2	74	40.56	27.36	17.35	30.47	100	239	P	V
			2386.3	43	-11	54	28.76	27.36	17.35	30.47	100	239	A	V
	*		2441	112.67	-	-	98.08	27.6	17.44	30.45	100	239	P	V
	*		2441	107.4	-	-	92.81	27.6	17.44	30.45	100	239	A	V
			2498.11	55.37	-18.63	74	40.47	27.8	17.53	30.43	100	239	P	V
			2486.98	43.88	-10.12	54	29.03	27.77	17.51	30.43	100	239	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 76 2478MHz	*	2478	109.37	-	-	94.61	27.7	17.5	30.44	291	45	P	H
	*	2478	103.96	-	-	89.2	27.7	17.5	30.44	291	45	A	H
		2483.92	62.73	-11.27	74	47.92	27.74	17.51	30.44	291	45	P	H
		2483.6	51.91	-2.09	54	37.1	27.74	17.51	30.44	291	45	A	H
													H
													H
	*	2478	110.35	-	-	95.59	27.7	17.5	30.44	112	208	P	V
	*	2478	104.99	-	-	90.23	27.7	17.5	30.44	112	208	A	V
		2484.04	63.43	-10.57	74	48.62	27.74	17.51	30.44	112	208	P	V
		2483.52	52.3	-1.7	54	37.49	27.74	17.51	30.44	112	208	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 ANT 4+3	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 ANT 4+3		4808	39.53	-34.47	74	62.52	32.35	11.31	66.65	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
BT CH 02 2404MHz		4808	39.52	-34.48	74	62.51	32.35	11.31	66.65	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V



BT ANT 4+3	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	40.12	-33.88	74	62.68	32.66	11.36	66.58	-	-	P	H
		7323	42.95	-31.05	74	58.95	36.85	13.48	66.33	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			4882	39.94	-34.06	74	62.5	32.66	11.36	66.58	-	-	P
		7323	44.65	-29.35	74	60.65	36.85	13.48	66.33	-	-	P	V
													V
													V
													V
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													V



BT ANT 4+3	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 76 2478MHz		4956	40.14	-33.86	74	62.4	32.85	11.4	66.51	-	-	P	H
		7434	43.74	-30.26	74	60.19	36.46	13.47	66.38	-	-	P	H
													H
													H
													H
													H
													H
													H
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			4956	40.31	-33.69	74	62.57	32.85	11.4	66.51	-	-	P
		7434	42.75	-31.25	74	59.2	36.46	13.47	66.38	-	-	P	V
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Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 												



Emission after 18GHz

2.4GHz BT (SHF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT SHF		24904	40.38	-33.62	74	56.98	39.14	-2.58	53.16	-	-	P	H
													H
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			24912	40.84	-33.16	74	57.43	39.14	-2.58	53.15	-	-	P
													V
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													V
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													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 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.	
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz BT LF		40.8	24.98	-15.02	40	37.54	18.98	0.71	32.25	-	-	P	H	
		97.77	31.64	-11.86	43.5	46.72	15.65	1.51	32.24	-	-	P	H	
		158.79	26.71	-16.79	43.5	40.41	16.66	1.93	32.29	-	-	P	H	
		389.6	22.05	-23.95	46	29.93	21.49	3.03	32.4	-	-	P	H	
		607.3	27.23	-18.77	46	30.69	25.33	3.83	32.62	-	-	P	H	
		897.8	29.99	-16.01	46	28.5	28.57	4.67	31.75	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			40.8	31.5	-8.5	40	44.06	18.98	0.71	32.25	-	-	P	V
			95.88	24.64	-18.86	43.5	40.07	15.34	1.48	32.25	-	-	P	V
			159.6	30.15	-13.35	43.5	43.92	16.58	1.94	32.29	-	-	P	V
			378.4	22.47	-23.53	46	30.79	21.11	2.98	32.41	-	-	P	V
			641.6	27.84	-18.16	46	30.57	25.96	3.92	32.61	-	-	P	V
			943.3	32.87	-13.13	46	29.44	30.02	4.8	31.39	-	-	P	V
														V
													V	
													V	
													V	
													V	
													V	

Remark

- No other spurious found.
- All results are PASS against limit line.
- 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	Peak or Average
H/V	Horizontal or Vertical



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

BT	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
	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

Test Engineer :	Hao Qun, Gary Guo and Steven Wu	Temperature :	20~25°C
		Relative Humidity :	50~65 %

Note symbol

-L	Low channel location
-R	High channel location

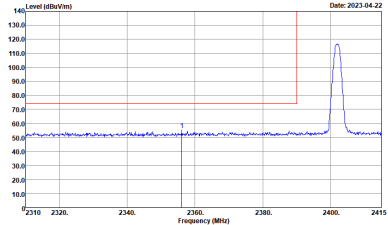
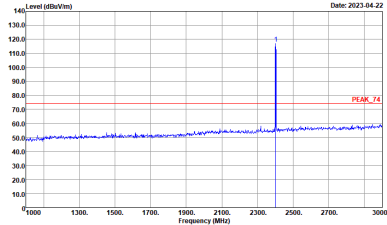
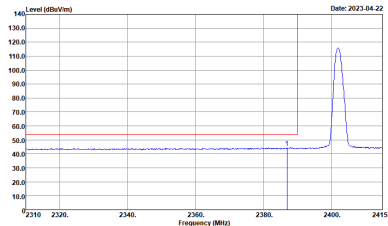
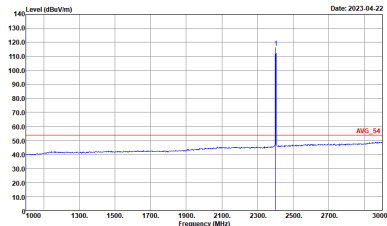


MIMO <Ant. 3+4>
<1 Mbps>

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

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto</p>

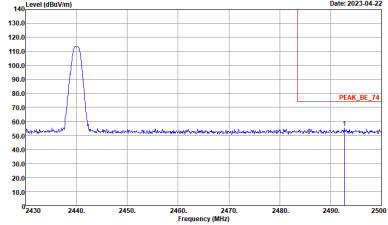
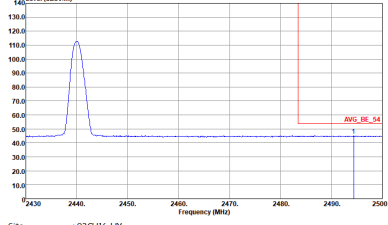


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>

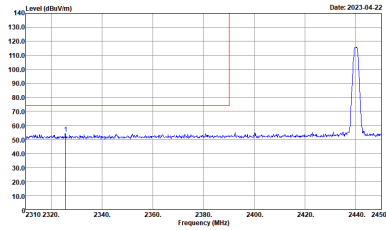
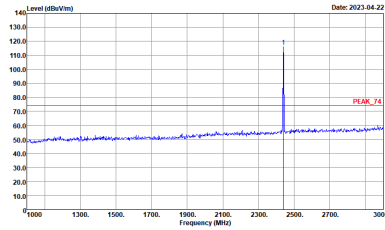
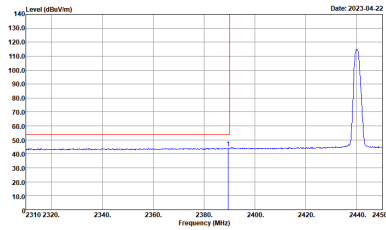
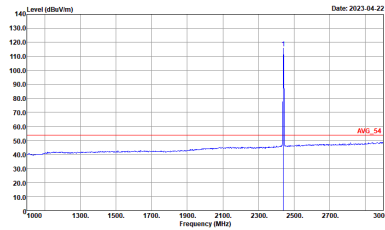


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH16-1Y Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH16-1Y Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto</p>	<p>Left blank</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>

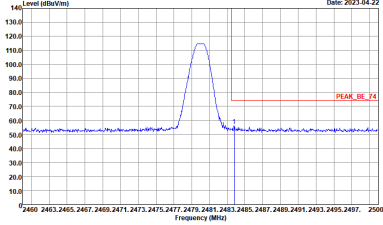
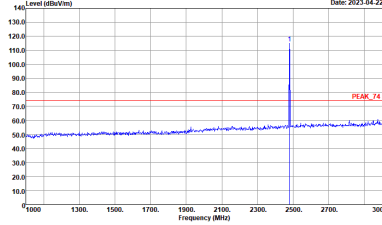
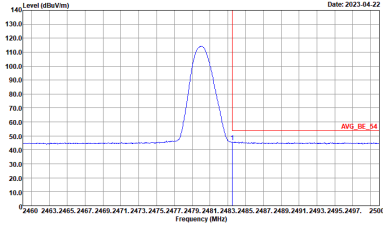
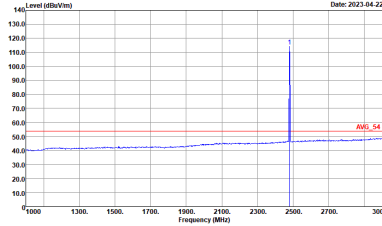


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
4+3	Horizontal	Fundamental
Peak	<p>Date: 2023-04-22</p> <p>Site : 03CH16-1Y Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2023-04-22</p> <p>Site : 03CH16-1Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Date: 2023-04-22</p> <p>Site : 03CH16-1Y Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>	<p>Date: 2023-04-22</p> <p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.700KHz SWT:Auto</p>



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Horizontal	Vertical
Peak Avg.		

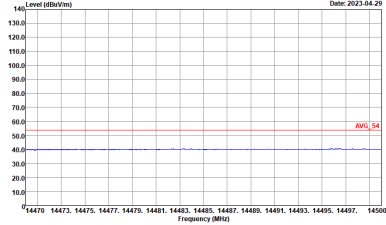
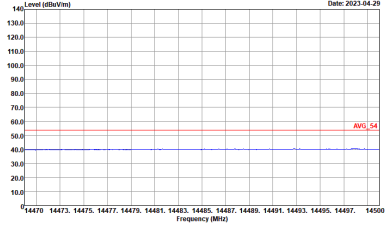
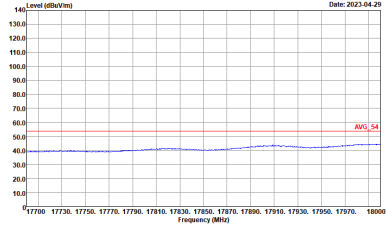
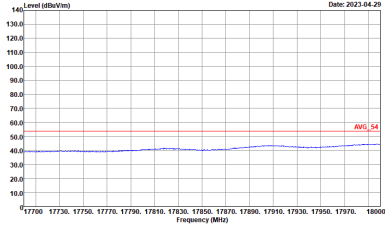


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
17.7G ~18G Avg		



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL :</p>	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL :</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
4+3	Horizontal	Vertical
14.47G ~14.5G Avg.	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
17.7G ~18G Avg	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
4+3	Horizontal	Vertical
Peak	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHZ	
4+3	Horizontal	Vertical
14.47G ~14.5G Avg.	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
17.7G ~18G Avg		



MIMO <Ant. 3+4>

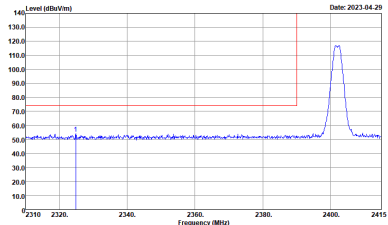
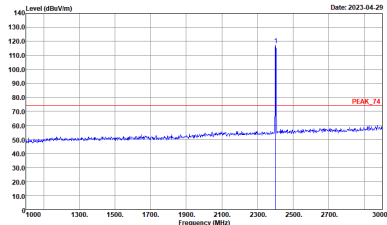
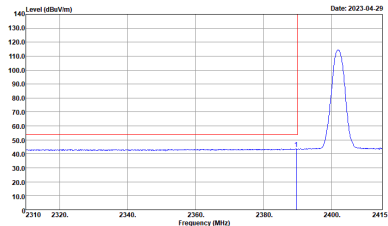
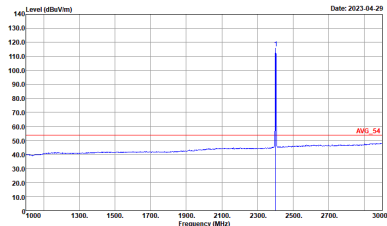
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2.4GHz 2400~2483.5MHz

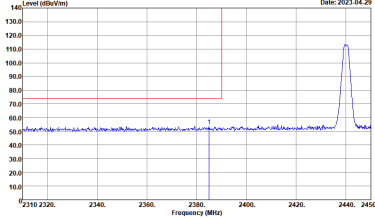
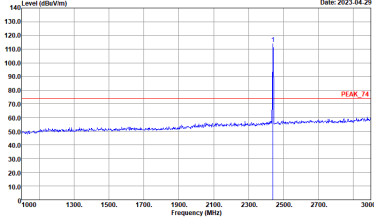
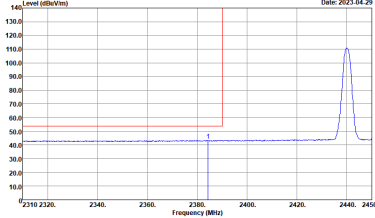
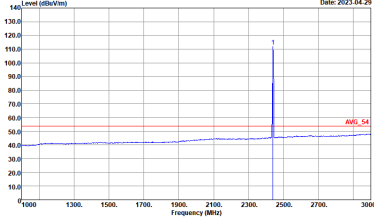
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH16-HY Condition : AV6_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>

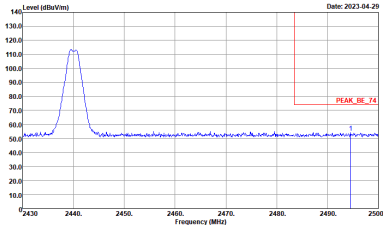
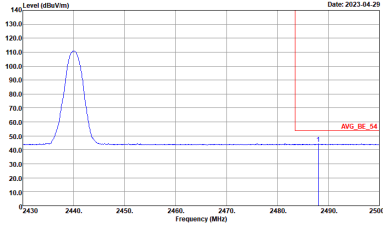


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Vertical	Fundamental
Peak	 <p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	 <p>Site Condition : 03CH16-HY : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>

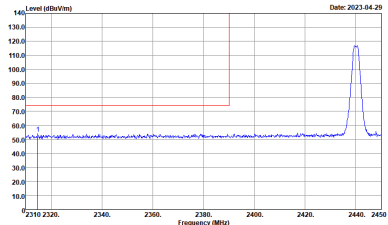
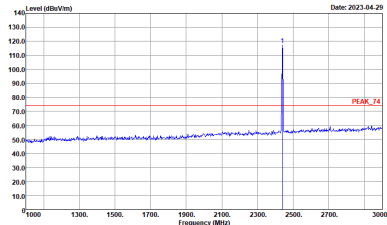
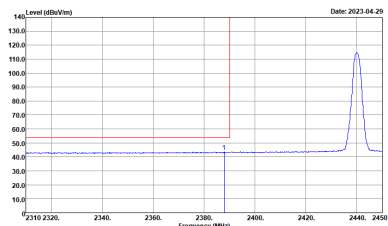
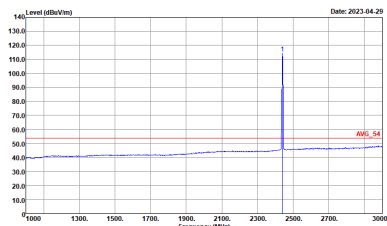


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

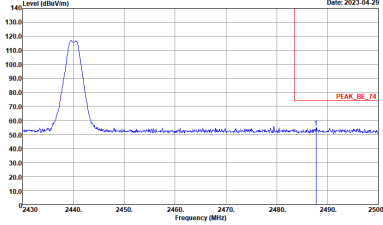
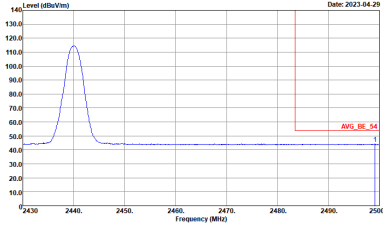


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
4+3	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH16-1Y Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH16-1Y Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Left blank</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>

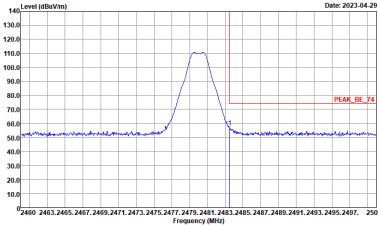
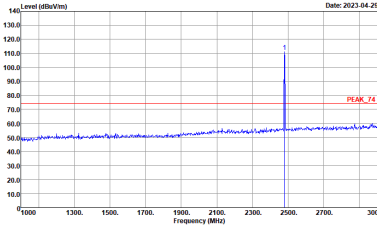
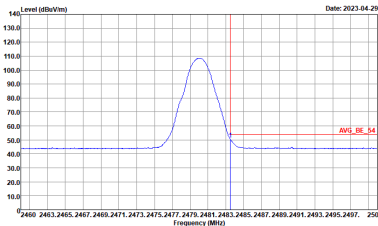
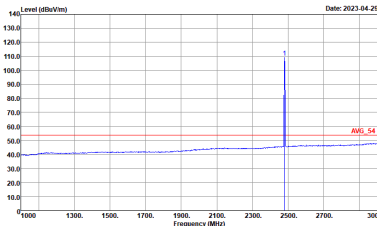


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
4+3	Vertical	Fundamental
Peak	 <p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site Condition : 03CH16-HY : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-1Y Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-1Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH16-1Y Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	<p>Site : 03CH16-1Y Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
4+3	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>


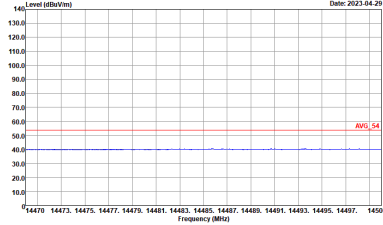
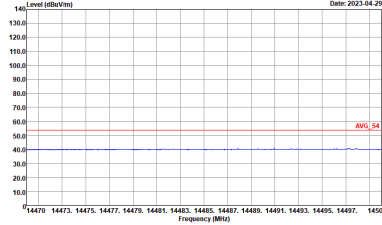
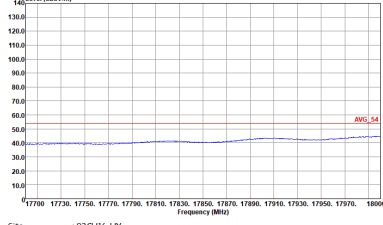
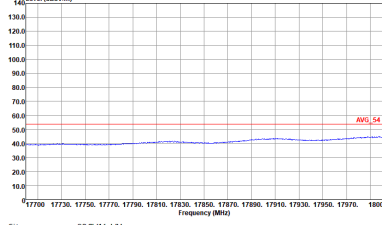


2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-1NY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-1NY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
4+3	Horizontal	Vertical
 <p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL :</p>	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL :</p>

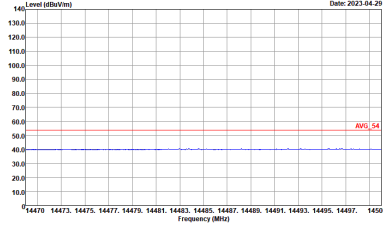
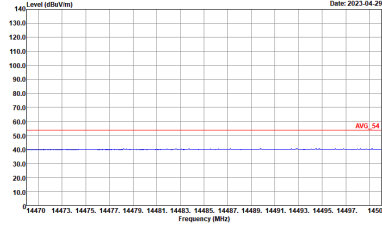
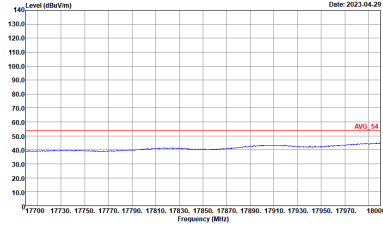
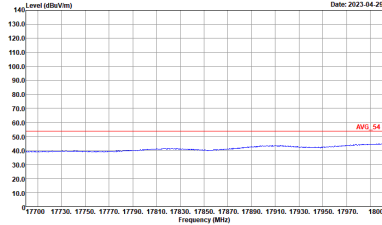


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
4+3	Horizontal	Vertical
<p>14.7G ~14.5G Avg.</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
4+3	Horizontal	Vertical
Peak	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
4+3	Horizontal	Vertical
<p>14.7G ~14.5G Avg.</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



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

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE SHF	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-11Y Condition : PEAK_74 1m SHF_993_1124 HORIZONTAL</p>	<p>Site : 03CH16-11Y Condition : PEAK_74 1m SHF_993_1124 VERTICAL</p>



Emission below 1GHz
2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
4+3	Horizontal	Vertical
QP / Peak	<p>Site : 03CH16-11Y Condition : QP 3m B1LOG_47020_221008_H HORIZONTAL</p>	<p>Site : 03CH16-11Y Condition : QP 3m B1LOG_47020_221008_H VERTICAL</p>



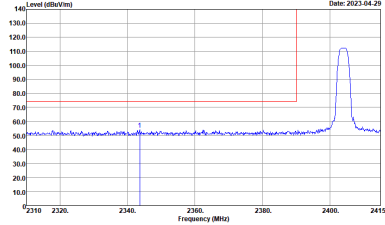
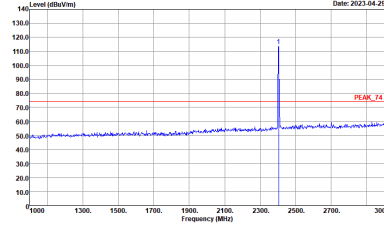
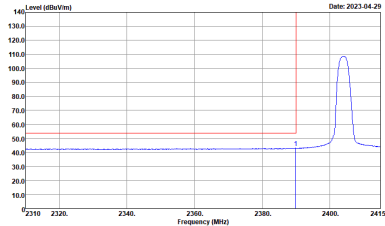
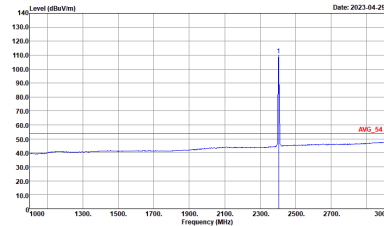
MIMO <Ant. 3+4>
<HR 4Mbps>

2.4GHz 2400~2483.5MHz

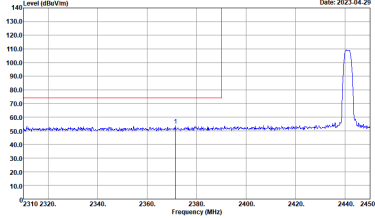
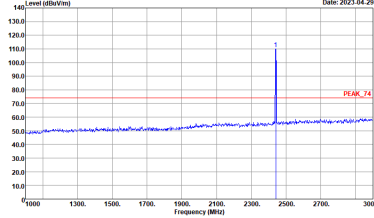
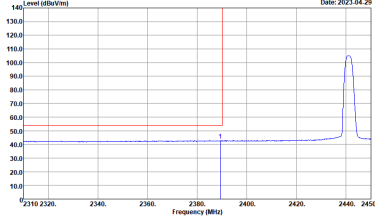
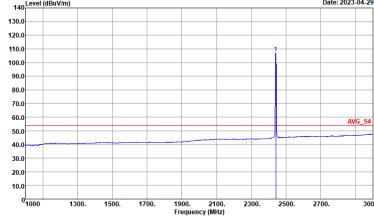
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH02 2404MHz	
4+3	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	<p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:0.350kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:0.350kHz SWT:Auto</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH02 2404MHz	
4+3	Vertical	Fundamental
Peak	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>

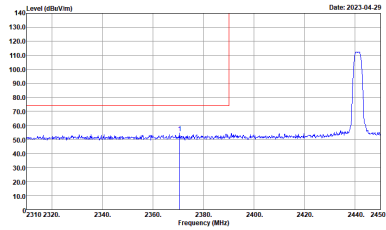
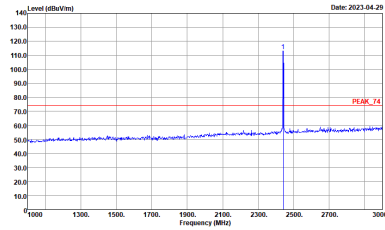
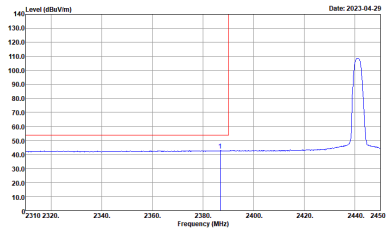
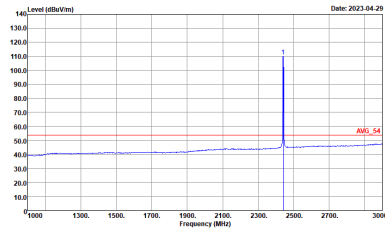


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - L	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.350KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.350KHz SWT:Auto</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - R	
4+3	Horizontal	Fundamental
Peak	<p>Site: 03CH6-HY Condition: PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site: 03CH6-HY Condition: AVG_BE_54 3m 91200_1522_230323 HORIZONTAL RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>	Left blank

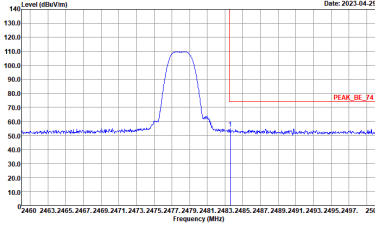
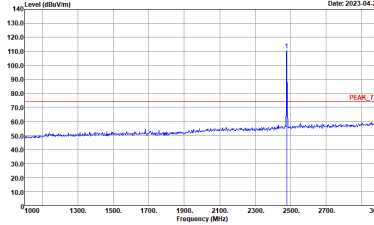
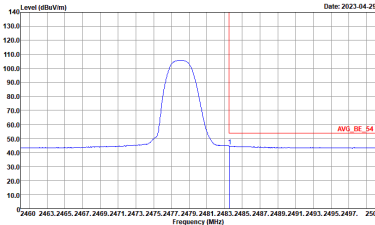
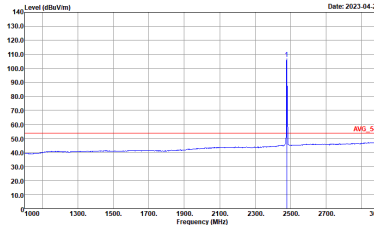


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - L	
4+3	Vertical	Fundamental
Peak	 <p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site Condition : 03CH16-HY : AV6_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : AV6_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>

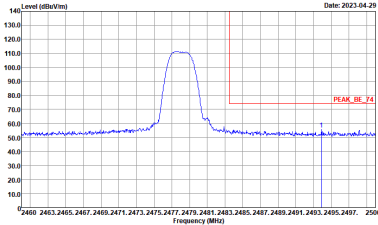
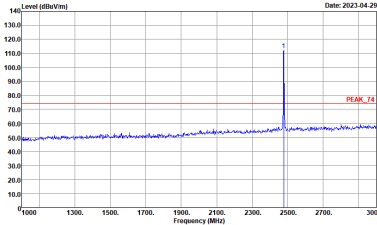
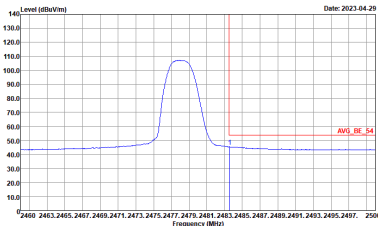
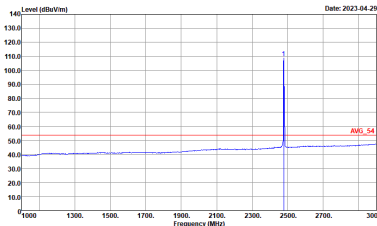


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - R	
4+3	Vertical	Fundamental
Peak	<p>Site Condition : 03CH16-11Y : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	<p>Site Condition : 03CH16-11Y : AVG_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH76 2478MHz	
4+3	Horizontal	Fundamental
Peak	 <p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : PEAK_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site Condition : 03CH16-HY : AV6_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : AV6_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH76 2478MHz	
4+3	Vertical	Fundamental
Peak	 <p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site Condition : 03CH16-HY : AV6_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>	 <p>Site Condition : 03CH16-HY : AV6_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>

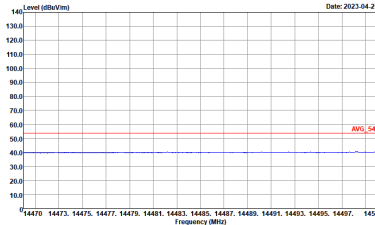
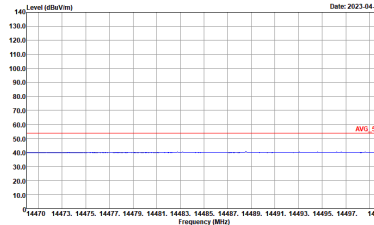
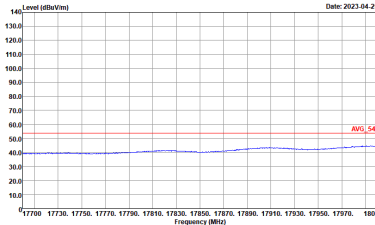
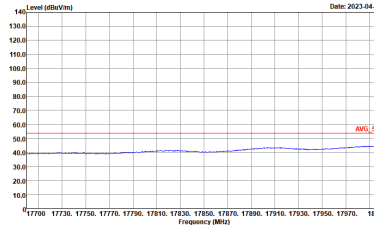


2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH02 2404MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH02 2404MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-1YY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL :</p>	<p>Site : 03CH16-1YY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL :</p>

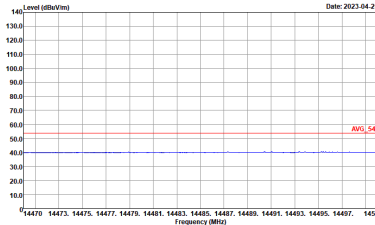
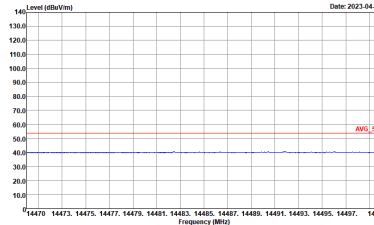
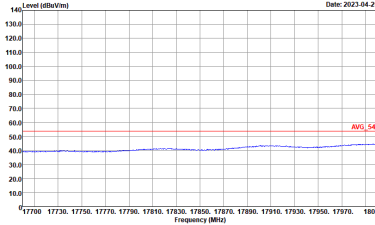
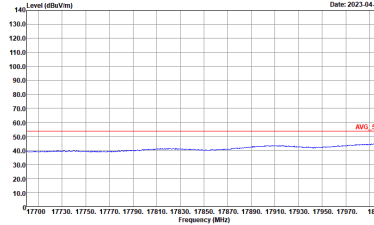


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH76 2478MHz	
4+3	Horizontal	Vertical
Peak	<p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL</p>

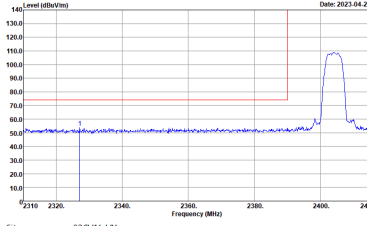
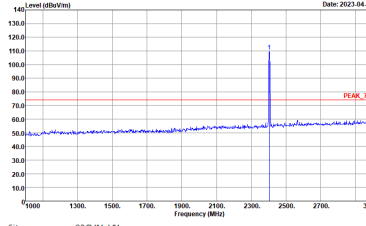
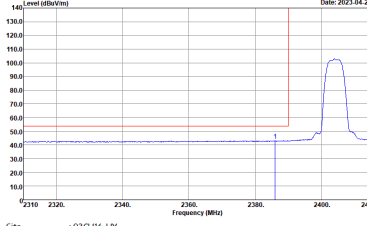
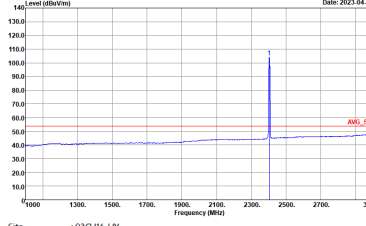


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH76 2478MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



MIMO <Ant. 3+4>
<HR 8Mbps>

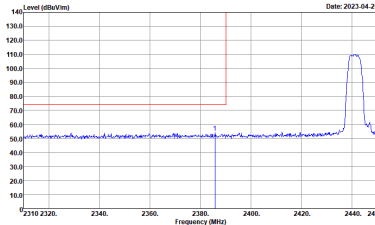
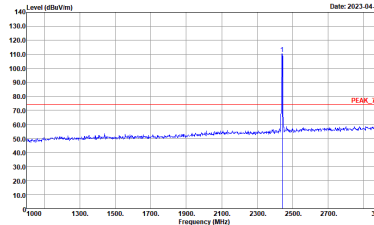
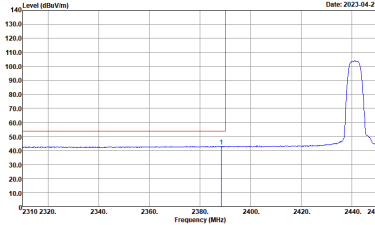
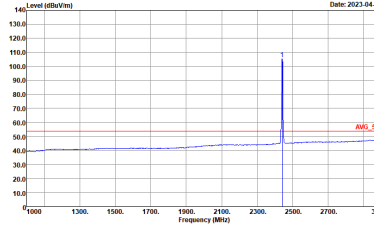
2.4GHz 2400~2483.5MHz
BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH02 2404MHz	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3500KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AVG_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3500KHz SWT:Auto</p>

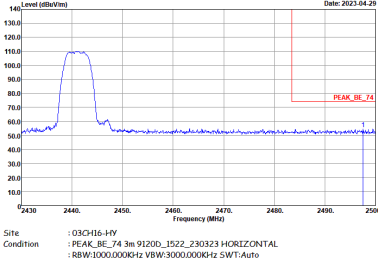
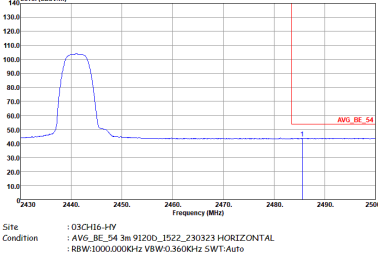


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH02 2404MHz	
4+3	Vertical	Fundamental
Peak	<p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site Condition : 03CH16-HY : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
	<p>Site Condition : 03CH16-HY : AV6_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>	<p>Site Condition : 03CH16-HY : AV6_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz- L	
4+3	Horizontal	Fundamental
Peak	 <p>Date: 2023-04-29</p> <p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-04-29</p> <p>Site Condition : 03CH16-HY : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	 <p>Date: 2023-04-29</p> <p>Site Condition : 03CH16-HY : AV6_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>	 <p>Date: 2023-04-29</p> <p>Site Condition : 03CH16-HY : AV6_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>

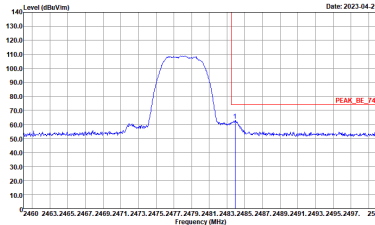
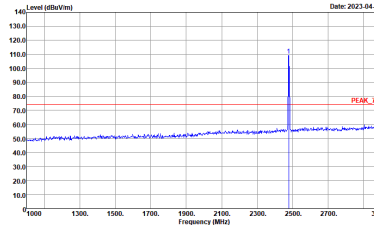
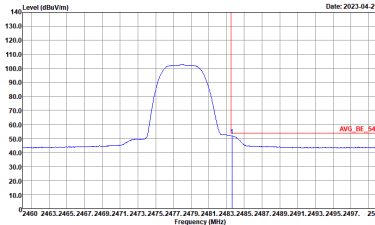
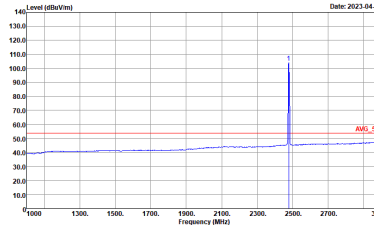


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz R	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>	Left blank



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH39 2441MHz - L	
4+3	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY Condition : AV6_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000kHz VBW:0.360kHz SWT:Auto</p>



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH76 2478MHz	
4+3	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	 <p>Site : 03CH16-HY Condition : AV6_BE_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>



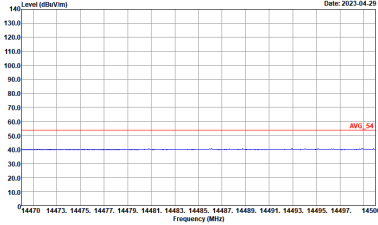
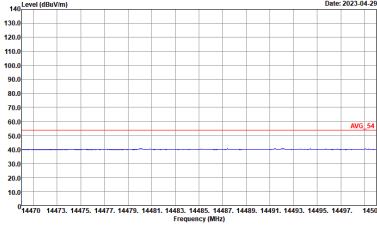
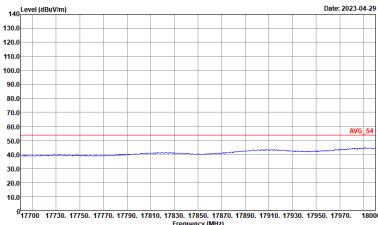
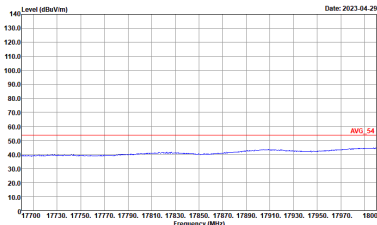
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH76 2478MHz	
4+3	Vertical	Fundamental
Peak	<p>Site Condition : 03CH16-HY : PEAK_BE_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site Condition : 03CH16-HY : PEAK_74 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg	<p>Site Condition : 03CH16-HY : AV6_BE_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>	<p>Site Condition : 03CH16-HY : AV6_54 3m 91200_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.360KHz SWT:Auto</p>



**2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)**

BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH02 2404MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL</p>	<p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL</p>

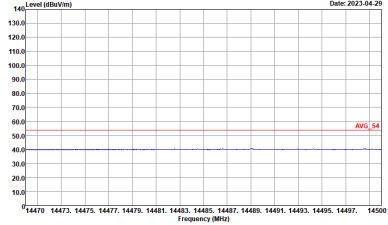
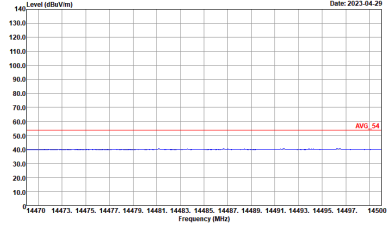
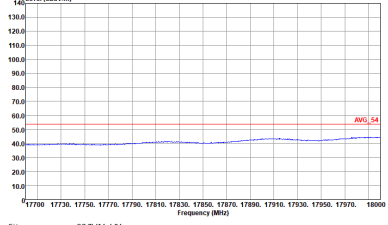
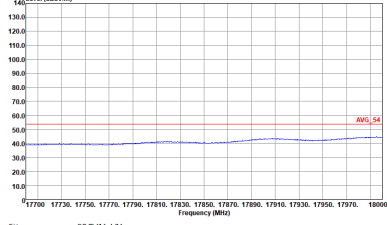


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH02 2404MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>

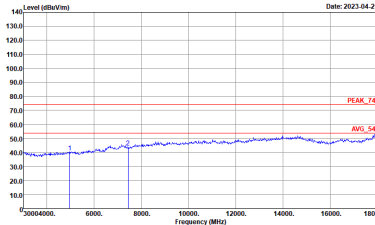
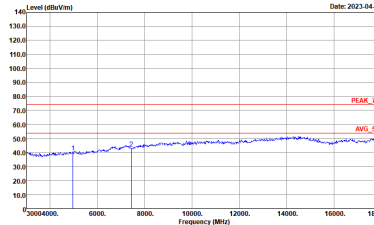


BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL :</p>	<p>Site : 03CH15-1Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL :</p>



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH39 2441MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH76 2478MHz	
4+3	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 HORIZONTAL</p>	 <p>Site : 03CH16-11Y Condition : PEAK_74 3m 91200_1522_230323 VERTICAL</p>



BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH76 2478MHz	
4+3	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 HORIZONTAL</p>	<p>Date: 2023-04-29</p> <p>Site : 03CH16-HY Condition : AV6_54 3m 91200_1522_230323 VERTICAL</p>



**Emission after 18GHz
2.4GHz BT (SHF @ 1m)**

BT	2.4GHz 2400~2483.5MHz	
ANT	BT SHF	
4+3	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK_74 1m SHF_993_1124 HORIZONTAL</p>	<p>Site : 03CH16-HY Condition : PEAK_74 1m SHF_993_1124 VERTICAL</p>



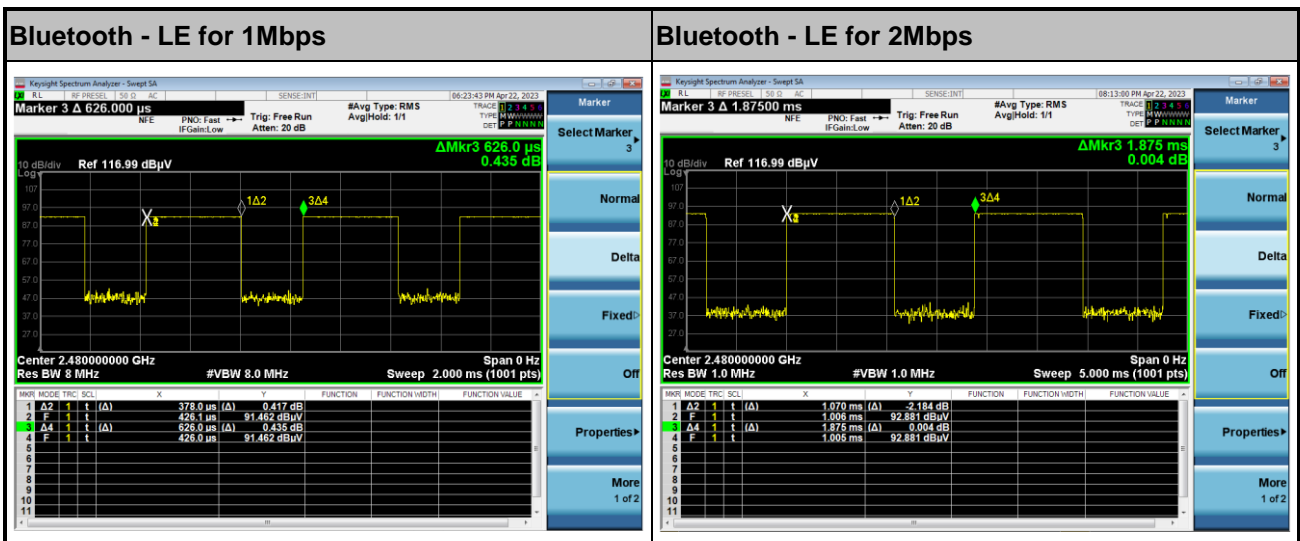
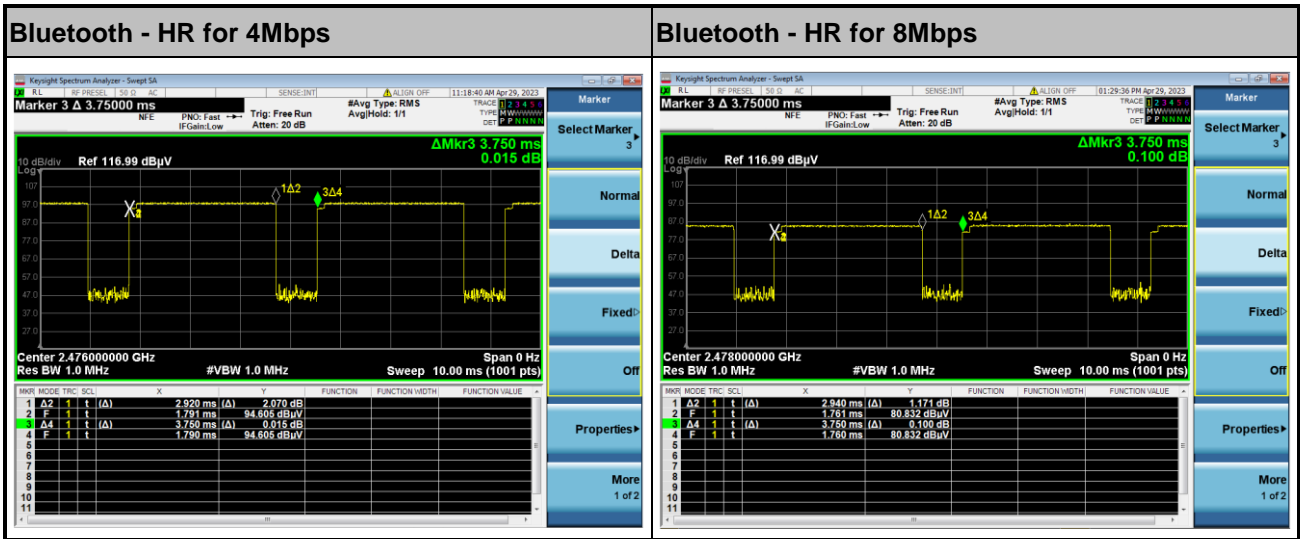
Emission below 1GHz
2.4GHz BT (LF)

BT	2.4GHz 2400~2483.5MHz	
ANT	BT LF	
4+3	Horizontal	Vertical
QP / Peak	<p>Site : 03CH16-11Y Condition : QP 3m B1LOG_47020_221008_H HORIZONTAL</p>	<p>Site : 03CH16-11Y Condition : QP 3m B1LOG_47020_221008_H VERTICAL</p>



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - HR for 4Mbps	77.87	2920	0.34	360Hz
Bluetooth - HR for 8Mbps	78.40	2940	0.34	360Hz
Bluetooth - LE for 1Mbps	60.38	378	2.65	2.7KHz
Bluetooth - LE for 2Mbps	57.07	1070	0.93	1kHz



THE END