

TEST RESULTS DATA Ant6
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.015	0.674	0.50	Pass
BLE	1Mbps	1	19	2440	1.015	0.672	0.50	Pass
BLE	1Mbps	1	39	2480	1.017	0.670	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	5.61	30.00	0.1	5.71	36.00	Pass
BLE	1Mbps	1	19	2440	6.57	30.00	0.1	6.67	36.00	Pass
BLE	1Mbps	1	39	2480	4.43	30.00	0.1	4.53	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.07	5.40
BLE	1Mbps	1	19	2440	2.07	6.40
BLE	1Mbps	1	39	2480	2.07	4.10

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	4.71	-9.71	-1.37	8.00	Pass
BLE	1Mbps	1	19	2440	5.73	-8.67	-1.37	8.00	Pass
BLE	1Mbps	1	39	2480	3.54	-10.79	-1.37	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

TEST RESULTS DATA Ant6
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	0	2402	1.994	1.147	0.50	Pass
BLE	2Mbps	1	19	2440	1.994	1.155	0.50	Pass
BLE	2Mbps	1	39	2480	1.994	1.151	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	5.55	30.00	0.1	5.65	36.00	Pass
BLE	2Mbps	1	19	2440	6.51	30.00	0.1	6.61	36.00	Pass
BLE	2Mbps	1	39	2480	4.36	30.00	0.1	4.46	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	4.86	5.30
BLE	2Mbps	1	19	2440	4.86	6.30
BLE	2Mbps	1	39	2480	4.86	4.00

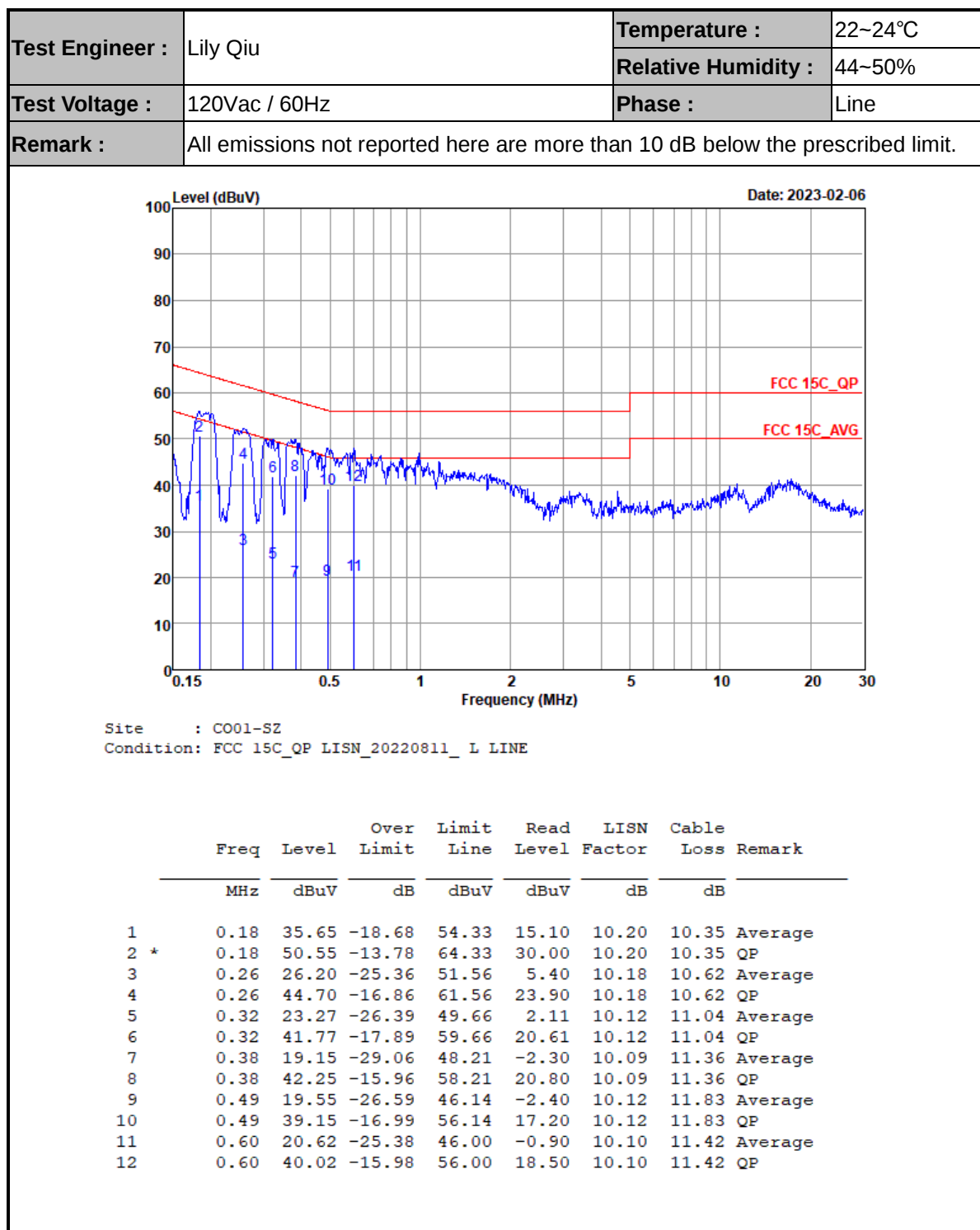
TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	4.66	-12.74	-1.37	8.00	Pass
BLE	2Mbps	1	19	2440	5.86	-11.50	-1.37	8.00	Pass
BLE	2Mbps	1	39	2480	3.55	-13.82	-1.37	8.00	Pass

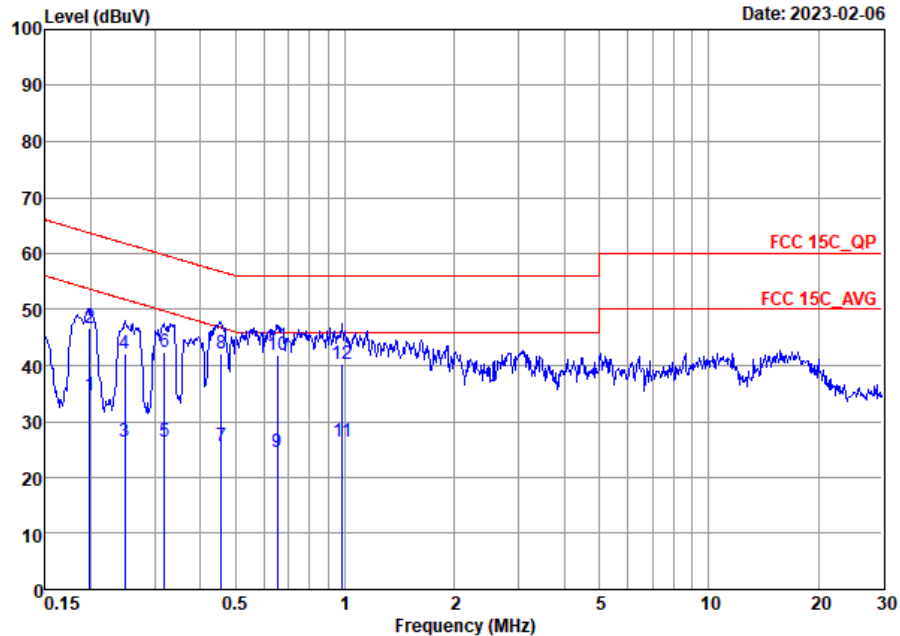
Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.



Appendix B. AC Conducted Emission Test Results



Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15C_QP LISN_20220811_ N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.20	34.75	-18.92	53.67	14.30	10.28	10.17	Average
2	0.20	46.55	-17.12	63.67	26.10	10.28	10.17	QP
3	0.25	26.51	-25.31	51.82	5.70	10.25	10.56	Average
4	0.25	42.21	-19.61	61.82	21.40	10.25	10.56	QP
5	0.32	26.52	-23.23	49.75	5.30	10.19	11.03	Average
6	0.32	42.52	-17.23	59.75	21.30	10.19	11.03	QP
7	0.46	25.58	-21.18	46.76	3.70	10.19	11.69	Average
8	0.46	42.18	-14.58	56.76	20.30	10.19	11.69	QP
9	0.65	24.66	-21.34	46.00	3.20	10.23	11.23	Average
10 *	0.65	41.96	-14.04	56.00	20.50	10.23	11.23	QP
11	0.98	26.27	-19.73	46.00	5.80	10.20	10.27	Average
12	0.98	40.17	-15.83	56.00	19.70	10.20	10.27	QP

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Ant 5 BLE 1Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2388.12	50.2	-23.8	74	46.84	32.21	4.81	33.66	364	21	P	H
		2376.36	41.06	-12.94	54	37.79	32.18	4.77	33.68	364	21	A	H
	*	2402	90.66	-	-	87.26	32.25	4.81	33.66	364	21	P	H
	*	2402	90.07	-	-	86.67	32.25	4.81	33.66	364	21	A	H
		2390	51.29	-22.71	74	47.93	32.21	4.81	33.66	350	52	P	V
		2389.38	41.99	-12.01	54	38.63	32.21	4.81	33.66	350	52	A	V
	*	2402	93.45	-	-	90.05	32.25	4.81	33.66	350	52	P	V
	*	2402	92.87	-	-	89.47	32.25	4.81	33.66	350	52	A	V
BLE CH 39 2480MHz	*	2480	91.94	-	-	88.19	32.45	4.92	33.62	397	305	P	H
	*	2480	91.13	-	-	87.38	32.45	4.92	33.62	397	305	A	H
		2488.6	50.73	-23.27	74	46.96	32.47	4.92	33.62	397	305	P	H
		2499.56	41.68	-12.32	54	37.86	32.5	4.92	33.6	397	305	A	H
	*	2480	95.84	-	-	92.09	32.45	4.92	33.62	294	44	P	V
	*	2480	95.25	-	-	91.5	32.45	4.92	33.62	294	44	A	V
		2492.24	50.6	-23.4	74	46.8	32.48	4.92	33.6	294	44	P	V
		2484.96	41.76	-12.24	54	38	32.46	4.92	33.62	294	44	A	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	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		4804	43.28	-30.72	74	53.78	34.68	7.75	52.93	-	-	P	H
		4804	43.15	-30.85	74	53.65	34.68	7.75	52.93	-	-	P	V
BLE CH 19 2440MHz		4880	43.1	-30.9	74	53.53	34.65	7.76	52.84	-	-	P	H
		7320	44.65	-29.35	74	53.39	36.42	8.95	54.11	-	-	P	H
		4880	43.85	-30.15	74	54.28	34.65	7.76	52.84	-	-	P	V
		7320	45.37	-28.63	74	54.11	36.42	8.95	54.11	-	-	P	V
BLE CH 39 2480MHz		4960	43.52	-30.48	74	53.83	34.62	7.81	52.74	-	-	P	H
		7440	44.82	-29.18	74	53.13	36.54	9.19	54.04	-	-	P	H
		4960	43.73	-30.27	74	54.04	34.62	7.81	52.74	-	-	P	V
		7440	44.24	-29.76	74	52.55	36.54	9.19	54.04	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Ant 5 BLE 2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2376.15	49.89	-24.11	74	46.62	32.18	4.77	33.68	363	15	P	H
		2380.035	42.88	-11.12	54	39.6	32.19	4.77	33.68	363	15	A	H
	*	2402	90.87	-	-	87.47	32.25	4.81	33.66	363	15	P	H
	*	2402	89.55	-	-	86.15	32.25	4.81	33.66	363	15	A	H
		2389.275	51.85	-22.15	74	48.49	32.21	4.81	33.66	351	52	P	V
		2389.38	44.46	-9.54	54	41.1	32.21	4.81	33.66	351	52	A	V
	*	2402	93.41	-	-	90.01	32.25	4.81	33.66	351	52	P	V
	*	2402	92.09	-	-	88.69	32.25	4.81	33.66	351	52	A	V
BLE CH 39 2480MHz	*	2480	91.53	-	-	87.78	32.45	4.92	33.62	400	306	P	H
	*	2480	90.35	-	-	86.6	32.45	4.92	33.62	400	306	A	H
		2492.96	51.14	-22.86	74	47.34	32.48	4.92	33.6	400	306	P	H
		2491.88	44.54	-9.46	54	40.74	32.48	4.92	33.6	400	306	A	H
	*	2480	95.86	-	-	92.11	32.45	4.92	33.62	294	45	P	V
	*	2480	94.53	-	-	90.78	32.45	4.92	33.62	294	45	A	V
		2493.56	51.16	-22.84	74	47.36	32.48	4.92	33.6	294	45	P	V
		2498.72	43.15	-10.85	54	39.33	32.5	4.92	33.6	294	45	A	V



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE ANT	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		4804	42.65	-31.35	74	53.15	34.68	7.75	52.93	-	-	P	H
		4804	42.89	-31.11	74	53.39	34.68	7.75	52.93	-	-	P	V
BLE CH 19 2440MHz		4874	43.57	-30.43	74	54	34.65	7.76	52.84	-	-	P	H
		7311	44.4	-29.6	74	53.16	36.41	8.95	54.12	-	-	P	H
		4874	42.72	-31.28	74	53.15	34.65	7.76	52.84	-	-	P	V
		7311	44.03	-29.97	74	52.79	36.41	8.95	54.12	-	-	P	V
BLE CH 39 2480MHz		4960	43.79	-30.21	74	54.1	34.62	7.81	52.74	-	-	P	H
		7440	45.17	-28.83	74	53.48	36.54	9.19	54.04	-	-	P	H
		4960	43.83	-30.17	74	54.14	34.62	7.81	52.74	-	-	P	V
		7440	44.3	-29.7	74	52.61	36.54	9.19	54.04	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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.	
5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE LF		52.31	18.99	-21.01	40	32.78	19.53	1.66	34.98	-	-	P	H
		154.16	29.03	-14.47	43.5	42.63	18.75	2.35	34.7	-	-	P	H
		202.66	27.94	-15.56	43.5	43.79	16.08	2.77	34.7	-	-	P	H
		347.19	34.48	-11.52	46	45.49	20.16	3.43	34.6	-	-	P	H
		434.49	25.98	-20.02	46	34.72	22.34	3.42	34.5	-	-	P	H
		699.3	27.5	-18.5	46	31.08	27.08	3.74	34.4	-	-	P	H
		58.13	28.54	-11.46	40	42.68	19.05	1.73	34.92	-	-	P	H
		163.86	31.18	-12.32	43.5	45.32	18.16	2.4	34.7	-	-	P	H
		192.96	33.15	-10.35	43.5	48.79	16.4	2.66	34.7	-	-	P	H
		327.79	33.4	-12.6	46	44.93	19.73	3.34	34.6	-	-	P	H
		444.19	29.59	-16.41	46	38.04	22.6	3.45	34.5	-	-	P	V
		592.6	26.53	-19.47	46	31.74	25.8	3.58	34.59	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Ant 6 BLE 1Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2364.495	52.57	-21.43	74	45.65	32.34	6.37	31.79	118	352	P	H
		2389.275	43.27	-10.73	54	36.2	32.36	6.44	31.73	118	352	A	H
	*	2402	94.29	-	-	87.22	32.36	6.44	31.73	118	352	P	H
	*	2402	93.8	-	-	86.73	32.36	6.44	31.73	118	352	A	H
		2380.035	52.58	-21.42	74	45.65	32.35	6.37	31.79	121	93	P	V
		2364.075	43.32	-10.68	54	36.4	32.34	6.37	31.79	121	93	A	V
	*	2402	97	-	-	89.93	32.36	6.44	31.73	121	93	P	V
	*	2402	95.45	-	-	88.38	32.36	6.44	31.73	121	93	A	V
BLE CH 39 2480MHz	*	2480	93.05	-	-	85.69	32.39	6.53	31.56	118	352	P	H
	*	2480	92.57	-	-	85.21	32.39	6.53	31.56	118	352	A	H
		2483.88	53.27	-20.73	74	45.91	32.39	6.53	31.56	118	352	P	H
		2484.68	43.61	-10.39	54	36.25	32.39	6.53	31.56	118	352	A	H
	*	2480	97.3	-	-	89.94	32.39	6.53	31.56	135	94	P	V
	*	2480	95.77	-	-	88.41	32.39	6.53	31.56	135	94	A	V
		2492.68	52.88	-21.12	74	45.45	32.4	6.53	31.5	135	94	P	V
		2484.76	43.56	-10.44	54	36.2	32.39	6.53	31.56	135	94	A	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	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		4804	43.1	-30.9	74	57.12	34.41	9.47	57.9	-	-	P	H
		4804	42.79	-31.21	74	56.81	34.41	9.47	57.9	-	-	P	V
BLE CH 19 2440MHz		4880	44.03	-29.97	74	58.06	34.37	9.5	57.9	-	-	P	H
		7320	46.12	-27.88	74	58.36	36.04	11.24	59.52	-	-	P	H
		4880	43.26	-30.74	74	57.29	34.37	9.5	57.9	-	-	P	V
		7320	46.33	-27.67	74	58.57	36.04	11.24	59.52	-	-	P	V
BLE CH 39 2480MHz		4960	44.05	-29.95	74	58.04	34.32	9.59	57.9	-	-	P	H
		7440	45.57	-28.43	74	58.2	35.94	11.29	59.86	-	-	P	H
		4960	44.14	-29.86	74	58.13	34.32	9.59	57.9	-	-	P	V
		7440	44.35	-29.65	74	56.98	35.94	11.29	59.86	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Ant 6BLE 2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
ANT					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2317.035	52.67	-21.33	74	45.96	32.32	6.3	31.91	119	347	P	H
		2359.35	44.7	-9.3	54	37.78	32.34	6.37	31.79	119	347	A	H
	*	2402	94.37	-	-	87.3	32.36	6.44	31.73	119	347	P	H
	*	2402	93.11	-	-	86.04	32.36	6.44	31.73	119	347	A	H
		2375.415	52.6	-21.4	74	45.67	32.35	6.37	31.79	121	93	P	V
		2386.02	44.81	-9.19	54	37.74	32.36	6.44	31.73	121	93	A	V
	*	2402	96.49	-	-	89.42	32.36	6.44	31.73	121	93	P	V
	*	2402	95.3	-	-	88.23	32.36	6.44	31.73	121	93	A	V
BLE CH 39 2480MHz	*	2480	95.24	-	-	87.88	32.39	6.53	31.56	119	347	P	H
	*	2480	92.9	-	-	85.54	32.39	6.53	31.56	119	347	A	H
		2497.32	54.57	-19.43	74	47.14	32.4	6.53	31.5	119	347	P	H
		2490.4	45.97	-8.03	54	38.54	32.4	6.53	31.5	119	347	A	H
	*	2480	97.86	-	-	90.5	32.39	6.53	31.56	134	97	P	V
	*	2480	95.48	-	-	88.12	32.39	6.53	31.56	134	97	A	V
		2493.76	53.19	-20.81	74	45.76	32.4	6.53	31.5	134	97	P	V
		2492.24	45.54	-8.46	54	38.11	32.4	6.53	31.5	134	97	A	V
BLE CH 39 2480MH (sku3)	*	2480	87.77	-	-	84.02	32.45	4.92	33.62	305	306	P	H
	*	2480	85.27	-	-	81.52	32.45	4.92	33.62	305	306	A	H
		2495.48	50.23	-23.77	74	46.42	32.49	4.92	33.6	305	306	P	H
		2490.32	43.3	-10.7	54	39.51	32.47	4.92	33.6	305	306	A	H
	*	2480	88.23	-	-	84.48	32.45	4.92	33.62	329	9	P	V
	*	2480	86.95	-	-	83.2	32.45	4.92	33.62	329	9	A	V
		2484.64	51.69	-22.31	74	47.93	32.46	4.92	33.62	329	9	P	V
		2487.16	43.56	-10.44	54	39.79	32.47	4.92	33.62	329	9	A	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	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		4804	44.41	-29.59	74	58.43	34.41	9.47	57.9	-	-	P	H
		4804	42.32	-31.68	74	56.34	34.41	9.47	57.9	-	-	P	V
BLE CH 19 2440MHz		4880	43.56	-30.44	74	57.59	34.37	9.5	57.9	-	-	P	H
		7320	46.26	-27.74	74	58.5	36.04	11.24	59.52	-	-	P	H
		4880	43.6	-30.4	74	57.63	34.37	9.5	57.9	-	-	P	V
		7320	46.32	-27.68	74	58.56	36.04	11.24	59.52	-	-	P	V
BLE CH 39 2480MHz		4960	43.59	-30.41	74	57.58	34.32	9.59	57.9	-	-	P	H
		7440	45.9	-28.1	74	58.53	35.94	11.29	59.86	-	-	P	H
		4960	44.45	-29.55	74	58.44	34.32	9.59	57.9	-	-	P	V
		7440	46.02	-27.98	74	58.65	35.94	11.29	59.86	-	-	P	V
BLE CH 39 2480MHz (sku3)		4960	43.52	-30.48	74	53.83	34.62	7.81	52.74	-	-	P	H
		7440	44.32	-29.68	74	52.63	36.54	9.19	54.04	-	-	P	H
		4960	43.41	-30.59	74	53.72	34.62	7.81	52.74	-	-	P	V
		7440	44.78	-29.22	74	53.09	36.54	9.19	54.04	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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.	
6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE LF		58.13	18.55	-21.45	40	32.69	19.05	1.73	34.92	-	-	P	H
		154.16	29.01	-14.49	43.5	42.61	18.75	2.35	34.7	-	-	P	H
		192.96	28.56	-14.94	43.5	44.2	16.4	2.66	34.7	-	-	P	H
		348.16	33.74	-12.26	46	44.73	20.18	3.43	34.6	-	-	P	H
		453.89	26	-20	46	34.24	22.8	3.46	34.5	-	-	P	H
		735.19	27.22	-18.78	46	30.44	27.45	3.73	34.4	-	-	P	H
		58.13	29.14	-10.86	40	43.28	19.05	1.73	34.92	-	-	P	V
		87.23	28.12	-11.88	40	46.83	14.09	1.97	34.77	-	-	P	V
		163.86	32.3	-11.2	43.5	46.44	18.16	2.4	34.7	-	-	P	V
		192.96	33.73	-9.77	43.5	49.37	16.4	2.66	34.7	-	-	P	V
		327.79	33.43	-12.57	46	44.96	19.73	3.34	34.6	-	-	P	V
		453.89	29.43	-16.57	46	37.67	22.8	3.46	34.5	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Co-location

BLE CH39 2480MHz & 11g CH01 2412MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 & 11g CH 01 Co-location	*	2480	94.41	-	-	90.66	32.45	4.92	33.62	334	42	P	H
	*	2480	93.05	-	-	89.3	32.45	4.92	33.62	334	42	A	H
		2497.56	51.27	-22.73	74	47.46	32.49	4.92	33.6	334	42	P	H
		2489.88	43.91	-10.09	54	40.12	32.47	4.92	33.6	334	42	A	H
	*	2480	89.21	-	-	85.46	32.45	4.92	33.62	262	339	P	V
	*	2480	87.79	-	-	84.04	32.45	4.92	33.62	262	339	A	V
		2496.24	51.17	-22.83	74	47.36	32.49	4.92	33.6	262	339	P	V
		2486.88	43.49	-10.51	54	39.72	32.47	4.92	33.62	262	339	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 & 11g CH 01 Co-location		2388.96	60.54	-13.46	74	57.18	32.21	4.81	33.66	100	9	P	H
		2389.695	43.79	-10.21	54	40.43	32.21	4.81	33.66	100	9	A	H
	*	2412	101.39	-	-	97.96	32.27	4.81	33.65	100	9	P	H
	*	2412	92.22	-	-	88.79	32.27	4.81	33.65	100	9	A	H
		2389.38	63.98	-10.02	74	60.62	32.21	4.81	33.66	188	267	P	V
		2390	46.03	-7.97	54	42.67	32.21	4.81	33.66	188	267	A	V
	*	2412	101.64	-	-	98.21	32.27	4.81	33.65	188	267	P	V
	*	2412	92.64	-	-	89.21	32.27	4.81	33.65	188	267	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



(Harmonic @ 3m)

BLE	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		4824	43.32	-30.68	74	53.81	34.67	7.75	52.91	-	-	P	H
CH 39		4960	43.81	-30.19	74	54.12	34.62	7.81	52.74	-	-	P	H
&		7440	45.09	-28.91	74	53.4	36.54	9.19	54.04	-	-	P	H
11g		4824	43.38	-30.62	74	53.87	34.67	7.75	52.91	-	-	P	V
CH 01		4960	43.44	-30.56	74	53.75	34.62	7.81	52.74	-	-	P	V
Co-location		7440	45.44	-28.56	74	53.75	36.54	9.19	54.04	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

BLE CH39 2480MHz & 11g CH01 2412MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Ant 5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE	*	2480	91.33	-	-	87.58	32.45	4.92	33.62	100	31	P	H
CH 39	*	2480	91.38	-	-	87.63	32.45	4.92	33.62	100	31	A	H
&		2496.4	51.46	-22.54	74	47.65	32.49	4.92	33.6	100	31	P	H
11g		2489.12	43.96	-10.04	54	40.17	32.47	4.92	33.6	100	31	A	H
CH 01	*	2480	94.39	-	-	90.64	32.45	4.92	33.62	296	45	P	V
Co-location	*	2480	93.12	-	-	89.37	32.45	4.92	33.62	296	45	A	V
		2484.96	51.94	-22.06	74	48.18	32.46	4.92	33.62	296	45	P	V
		2499.56	43.56	-10.44	54	39.74	32.5	4.92	33.6	296	45	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11g (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 & 11g CH 01 Co-location		2389.275	53.67	-20.33	74	50.31	32.21	4.81	33.66	150	22	P	H
		2390	43.32	-10.68	54	39.96	32.21	4.81	33.66	150	22	A	H
	*	2412	100.06	-	-	96.63	32.27	4.81	33.65	150	22	P	H
	*	2412	92.41	-	-	88.98	32.27	4.81	33.65	150	22	A	H
		2389.59	58.1	-15.9	74	54.74	32.21	4.81	33.66	185	62	P	V
		2390	47.4	-6.6	54	44.04	32.21	4.81	33.66	185	62	A	V
	*	2412	103.05	-	-	99.62	32.27	4.81	33.65	185	62	P	V
	*	2412	95.26	-	-	91.83	32.27	4.81	33.65	185	62	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

(Harmonic @ 3m)

BLE	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 & 11g CH 01 Co-location		4824	43.91	-30.09	74	54.4	34.67	7.75	52.91	-	-	P	H
		4960	43.14	-30.86	74	53.45	34.62	7.81	52.74	-	-	P	H
		7440	44.18	-29.82	74	52.49	36.54	9.19	54.04	-	-	P	H
		4824	43.91	-30.09	74	54.4	34.67	7.75	52.91	-	-	P	V
		4960	43.14	-30.86	74	53.45	34.62	7.81	52.74	-	-	P	V
		7440	44.18	-29.82	74	52.49	36.54	9.19	54.04	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Note symbol**

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



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

BLE	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)
BLE 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”.

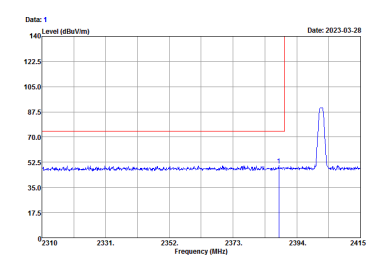
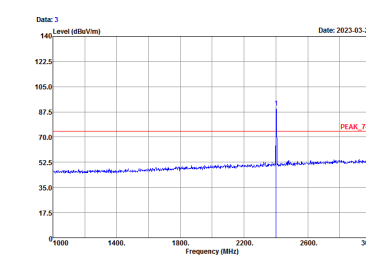


Appendix D. Radiated Spurious Emission Plots

Ant 5 BLE 1Mbps

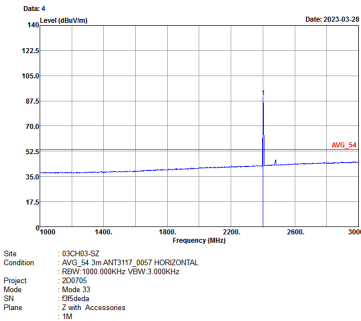
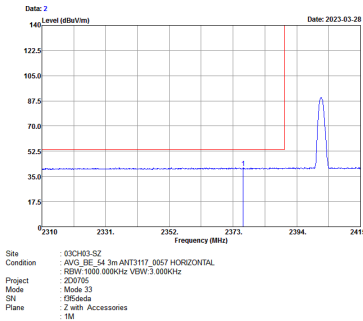
2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
5	Horizontal	Fundamental
Peak	 Site : 02CH03-S2 Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : REW1000.000KHz VIEW:3000.000KHz Mode : 200705 Mode 33 SH : 05Cuda Plane : 2 with Accessories : TM	 Site : 02CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : REW1000.000KHz VIEW:3000.000KHz Mode : 200705 Mode 33 SH : 05Cuda Plane : 2 with Accessories : TM



Avg.





BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
5	Vertical	Fundamental
Peak	Date: 6 Level (dBuV/m) Date: 2023-03-31 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000kHz VEW 3000 000kHz Mode : Z0705 Mode 33 SN : 095deda Plane : Z with Accessories : 1M	Date: 7 Level (dBuV/m) Date: 2023-03-28 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000kHz VEW 3000 000kHz Mode : Z0705 Mode 33 SN : 095deda Plane : Z with Accessories : 1M
Avg	Date: 6 Level (dBuV/m) Date: 2023-03-28 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000kHz VEW 3 000kHz Mode : Z0705 Mode 33 SN : 095deda Plane : Z with Accessories : 1M	Date: 8 Level (dBuV/m) Date: 2023-03-28 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000kHz VEW 3 000kHz Mode : Z0705 Mode 33 SN : 095deda Plane : Z with Accessories : 1M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
5	Horizontal	Fundamental
Peak	Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 35 SN : 095deda Plane : Z with Accessories Date: 2023-03-28 Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a sharp peak at approximately 2480 MHz, labeled PEAK_BE_74. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz.	Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 35 SN : 095deda Plane : Z with Accessories Date: 2023-03-28 Fundamental Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a sharp peak at approximately 2480 MHz, labeled PEAK_74. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 1800 to 3000 MHz.
Avg.	Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 35 SN : 095deda Plane : Z with Accessories Date: 2023-03-28 Horizontal Avg Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a broad peak at approximately 2480 MHz, labeled AVG_BE_54. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 2460 to 2500 MHz.	Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 35 SN : 095deda Plane : Z with Accessories Date: 2023-03-28 Fundamental Avg Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a broad peak at approximately 2480 MHz, labeled AVG_54. The y-axis ranges from 17.5 to 140 dBuV/m, and the x-axis ranges from 1800 to 3000 MHz.



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
5	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m) Frequency (MHz) PEAK_BE_74 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : Z0705 Mode 35 SN : 095deda Plane : Z with Accessories : 1M	Date: 5 Level (dBuV/m) Frequency (MHz) PEAK_74 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : Z0705 Mode 35 SN : 095deda Plane : Z with Accessories : 1M
Avg.	Date: 8 Level (dBuV/m) Frequency (MHz) AVG_BE_54 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : Z0705 Mode 35 SN : 095deda Plane : Z with Accessories : 1M	Date: 6 Level (dBuV/m) Frequency (MHz) AVG_54 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : Z0705 Mode 35 SN : 095deda Plane : Z with Accessories : 1M



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

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
5	Horizontal	Vertical
Peak Avg.	Date: 13 Level (dBuV/m) PEAK_74 AVG_54 Site : 02CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 33 SN : 0354eda Plane : Z with Accessories : 1M	Date: 14 Level (dBuV/m) PEAK_74 AVG_54 Site : 02CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 33 SN : 0354eda Plane : Z with Accessories : 1M



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
5	Horizontal	Vertical
Peak Avg.	Date: 5 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 34 SN : 095da6da Plane : Z with Accessories : 1M	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 34 SN : 095da6da Plane : Z with Accessories : 1M
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
5	Horizontal	Vertical
Peak	Date: 13 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 35 SN : 095da6da Plane : Z with Accessories : 1M	Date: 14 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 35 SN : 095da6da Plane : Z with Accessories : 1M



Ant 5 BLE 2Mbps

2.4GHz 2400~2483.5MHz

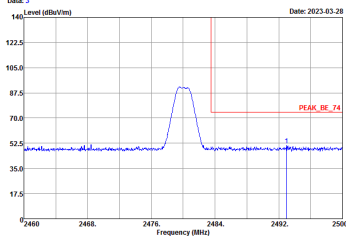
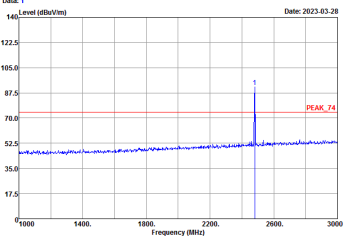
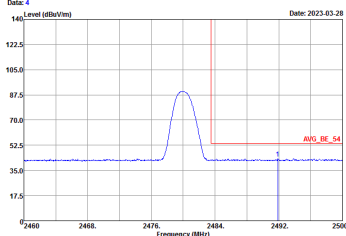
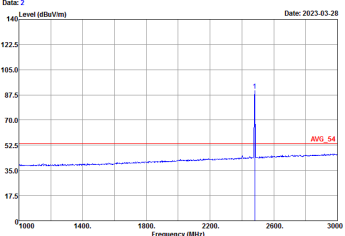
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
5	Horizontal	Fundamental
Peak	Date: 1 Site : 03CH03-S2 Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : REW 1000.000kHz VEW 3000.000kHz Mode : Z00705 Mode 36 SN : 0354eda Plane : Z with Accessories 2M	Date: 3 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : REW 1000.000kHz VEW 3000.000kHz Mode : Z00705 Mode 36 SN : 0354eda Plane : Z with Accessories 2M
Avg.	Date: 2 Site : 03CH03-S2 Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : REW 1000.000kHz VEW 10.000kHz Mode : Z00705 Mode 36 SN : 0354eda Plane : Z with Accessories 2M	Date: 4 Site : 03CH03-S2 Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : REW 1000.000kHz VEW 10.000kHz Mode : Z00705 Mode 36 SN : 0354eda Plane : Z with Accessories 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
5	Vertical	Fundamental
Peak	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : RBW 1000.000kHz VBW 3000.000kHz Mode : Z0705 SN : 05deda Plane : Z with Accessories 2M	Date: 7 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : RBW 1000.000kHz VBW 3000.000kHz Mode : Z0705 SN : 05deda Plane : Z with Accessories 2M
Avg	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : RBW 1000.000kHz VBW 10.000kHz Mode : Z0705 SN : 05deda Plane : Z with Accessories 2M	Date: 8 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : RBW 1000.000kHz VBW 10.000kHz Mode : Z0705 SN : 05deda Plane : Z with Accessories 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
5	Horizontal	Fundamental
Peak	Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VIEW 3000 000KHz Mode : Z30705 Mode 3B SN : 095deda Plane : Z with Accessories 2M  Horizontal Peak Spectrum Plot showing Level (dBm/Vm) vs Frequency (MHz). The plot shows a peak at approximately 2480 MHz, labeled PEAK_BE_74. The x-axis ranges from 2460 to 2500 MHz, and the y-axis ranges from 17.5 to 140 dBm/Vm.	Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VIEW 3000 000KHz Mode : Z30705 Mode 3B SN : 095deda Plane : Z with Accessories 2M  Fundamental Peak Spectrum Plot showing Level (dBm/Vm) vs Frequency (MHz). The plot shows a peak at approximately 2480 MHz, labeled PEAK_74. The x-axis ranges from 1800 to 3000 MHz, and the y-axis ranges from 17.5 to 140 dBm/Vm.
Avg.	Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VIEW 10 000KHz Mode : Z30705 Mode 3B SN : 095deda Plane : Z with Accessories 2M  Horizontal Avg. Spectrum Plot showing Level (dBm/Vm) vs Frequency (MHz). The plot shows a peak at approximately 2480 MHz, labeled AVG_BE_54. The x-axis ranges from 2460 to 2500 MHz, and the y-axis ranges from 17.5 to 140 dBm/Vm.	Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : REW 1000 000KHz VIEW 10 000KHz Mode : Z30705 Mode 3B SN : 095deda Plane : Z with Accessories 2M  Fundamental Avg. Spectrum Plot showing Level (dBm/Vm) vs Frequency (MHz). The plot shows a peak at approximately 2480 MHz, labeled AVG_54. The x-axis ranges from 1800 to 3000 MHz, and the y-axis ranges from 17.5 to 140 dBm/Vm.



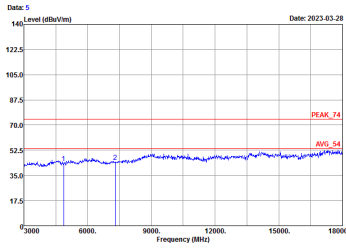
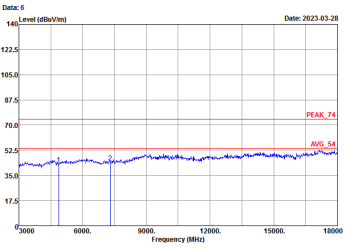
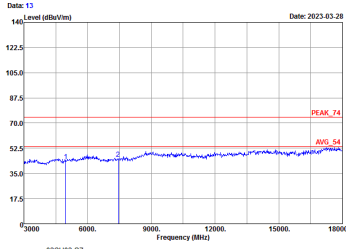
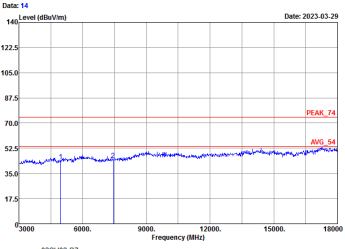
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
5	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VEW 3000 000KHz Mode : Z0705 Mode 3B SN : 095deda Plane : Z with Accessories 2M	Date: 5 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VEW 3000 000KHz Mode : Z0705 Mode 3B SN : 095deda Plane : Z with Accessories 2M
	Date: 8 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VEW 10 000KHz Mode : Z0705 Mode 3B SN : 095deda Plane : Z with Accessories 2M	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VEW 10 000KHz Mode : Z0705 Mode 3B SN : 095deda Plane : Z with Accessories 2M



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

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
5	Horizontal	Vertical
Peak Avg.	Date: 17 Level (dBuV/m) Date: 2023-03-28 PEAK_74 Avg_54 Site : 02CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 35 SN : 0954eda Plane : Z with Accessories 2M	Date: 18 Level (dBuV/m) Date: 2023-03-29 PEAK_74 Avg_54 Site : 02CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 35 SN : 0954eda Plane : Z with Accessories 2M



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
5	Horizontal	Vertical
Peak Avg.	 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 37 SN : 095daa Plane : Z with Accessories 2M	 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 37 SN : 095daa Plane : Z with Accessories 2M
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
5	Horizontal	Vertical
Peak	 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 38 SN : 095daa Plane : Z with Accessories 2M	 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 38 SN : 095daa Plane : Z with Accessories 2M



Emission below 1GHz

2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
5	Horizontal	Vertical
Peak	Date: 1 Level (dBuV/m) Frequency (MHz) Site : 02CH03-SZ Condition : FCC CLASS-B 3m VULB9168-01003 HORIZONTAL Project : 200705 Mode : Mode 39 SN : 32b7a62 Plane : Z with Accessories 2M	Date: 2 Level (dBuV/m) Frequency (MHz) Site : 02CH03-SZ Condition : FCC CLASS-B 3m VULB9168-01003 VERTICAL Project : 200705 Mode : Mode 39 SN : 32b7a62 Plane : Z with Accessories 2M



Ant 6 BLE 1Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
6	Horizontal	Fundamental
Peak	Date: 1 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-S2 Condition : PEAK_BE_74 3m HF_ANT_3117_0107 HORIZONTAL Project : REWV 1000 0000Hz VEW 3000 0000Hz Mode : 200705 Mode : Mode 5 SN : 31200cf Plane : 2 with Accessories Plane : 1M	Date: 3 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-S2 Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : REWV 1000 0000Hz VEW 3000 0000Hz Mode : 200705 Mode : Mode 5 SN : 31200cf Plane : 2 with Accessories Plane : 1M
Avg.	Date: 2 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-S2 Condition : AVG_BE_54 3m HF_ANT_3117_0107 HORIZONTAL Project : REWV 1000 0000Hz VEW 3000 0000Hz Mode : 200705 Mode : Mode 5 SN : 31200cf Plane : 2 with Accessories Plane : 1M	Date: 4 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-S2 Condition : AVG_54 3m HF_ANT_3117_0107 HORIZONTAL Project : REWV 1000 0000Hz VEW 3000 0000Hz Mode : 200705 Mode : Mode 5 SN : 31200cf Plane : 2 with Accessories Plane : 1M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
6	Vertical	Fundamental
Peak	Date: 6 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : 200705 Mode : Mode 5 SN : 31260cf Plane : Z with Accessories Plane : 1M	Date: 7 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : 200705 Mode : Mode 5 SN : 31260cf Plane : Z with Accessories Plane : 1M
Avg	Date: 6 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-SZ Condition : AVG_BE_54 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : 200705 Mode : Mode 5 SN : 31260cf Plane : Z with Accessories Plane : 1M	Date: 8 Level (dBuV/m) Date: 2023-02-07 Site : 03CH03-SZ Condition : AVG_54 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : 200705 Mode : Mode 5 SN : 31260cf Plane : Z with Accessories Plane : 1M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
6	Horizontal	Fundamental
Peak	Date: 3 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_BE_74 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000 000KHz VIEW 3000 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M	Date: 1 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000 000KHz VIEW 3000 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M
Avg.	Date: 4 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : AVG_BE_54 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000 000KHz VIEW 3000 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M	Date: 2 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : AVG_54 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000 000KHz VIEW 3000 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
6	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_BE_74 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M	Date: 5 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3000 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M
Avg.	Date: 8 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : AVG_BE_54 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-S2 Condition : AVG_54 3m HF_ANT_3117_0107 VERTICAL Project : RBW 1000 000KHz VEW 3 000KHz Mode : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories Plane : 1M



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
6	Horizontal	Vertical
Peak Avg.	Date: 13 Level (dBuV/m) PEAK_74 AVG_54 Site : 02CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 200705 Mode : Mode S SN : 31260cf Plane : Z with Accessories : 1M	Date: 14 Level (dBuV/m) PEAK_74 AVG_54 Site : 02CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 200705 Mode : Mode S SN : 31260cf Plane : Z with Accessories : 1M



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
6	Horizontal	Vertical
Peak Avg.	Date: 5 Level (dBuV/m) PEAK_74 AVG_54 Site : 03CH02-S2 Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 200705 Mode : Mode 6 SN : 31260cf Plane : Z with Accessories	Date: 6 Level (dBuV/m) PEAK_74 AVG_54 Site : 03CH02-S2 Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 200705 Mode : Mode 6 SN : 31260cf Plane : Z with Accessories
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
6	Horizontal	Vertical
Peak	Date: 13 Level (dBuV/m) PEAK_74 AVG_54 Site : 03CH03-S2 Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories TM	Date: 14 Level (dBuV/m) PEAK_74 AVG_54 Site : 03CH03-S2 Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 200705 Mode : Mode 7 SN : 31260cf Plane : Z with Accessories TM



Ant 6 BLE 2Mbps

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
6	Horizontal	Fundamental
Peak	Date: 1 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000.000kHz VIEW 3000.000kHz Mode : 200705 Mode B : SN : 31200cf Plane : Z with Accessories 2M	Date: 3 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000.000kHz VIEW 3000.000kHz Mode : 200705 Mode B : SN : 31200cf Plane : Z with Accessories 2M
Avg.	Date: 2 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000.000kHz VIEW 10.000kHz Mode : 200705 Mode B : SN : 31200cf Plane : Z with Accessories 2M	Date: 4 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m HF_ANT_3117_0107 HORIZONTAL Project : REW 1000.000kHz VIEW 10.000kHz Mode : 200705 Mode B : SN : 31200cf Plane : Z with Accessories 2M

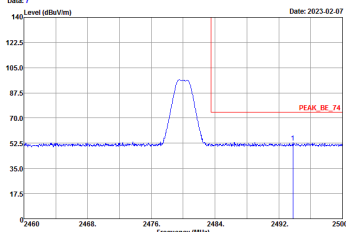
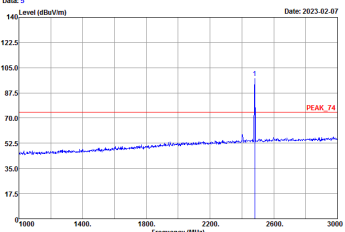
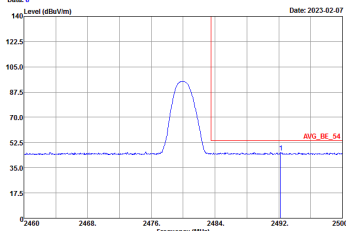
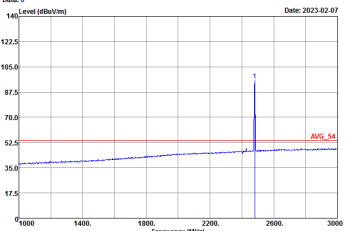


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
6	Vertical	Fundamental
Peak	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 VERTICAL Project : REW 1000.000kHz VBW 3000.000kHz Mode : 200705 Mode 0 SN : 31250cf Plane : Z with Accessories 2M	Date: 7 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : REW 1000.000kHz VBW 3000.000kHz Mode : 200705 Mode 0 SN : 31250cf Plane : Z with Accessories 2M
Avg	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m HF_ANT_3117_0107 VERTICAL Project : REW 1000.000kHz VBW 10.000kHz Mode : 200705 Mode 0 SN : 31250cf Plane : Z with Accessories 2M	Date: 8 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m HF_ANT_3117_0107 VERTICAL Project : REW 1000.000kHz VBW 10.000kHz Mode : 200705 Mode 0 SN : 31250cf Plane : Z with Accessories 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
6	Horizontal	Fundamental
Peak	Date: 3 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 HORIZONTAL REW 1000.000kHz VEW 3000.000kHz 200705 Project : Mode 10 SN : 31260cf Plane : Z with Accessories 2M	Date: 1 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL REW 1000.000kHz VEW 3000.000kHz 200705 Project : Mode 10 SN : 31260cf Plane : Z with Accessories 2M
Avg.	Date: 4 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m HF_ANT_3117_0107 HORIZONTAL REW 1000.000kHz VEW 10.000kHz 200705 Project : Mode 10 SN : 31260cf Plane : Z with Accessories 2M	Date: 2 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m HF_ANT_3117_0107 HORIZONTAL REW 1000.000kHz VEW 10.000kHz 200705 Project : Mode 10 SN : 31260cf Plane : Z with Accessories 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
6	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m HF_ANT_3117_0107 VERTICAL REW: 1000.000kHz VBW: 3000.000kHz Project : 200705 Mode : Mode 10 SN : 31260cf Plane : Z with Accessories 2M	Date: 5 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL REW: 1000.000kHz VBW: 3000.000kHz Project : 200705 Mode : Mode 10 SN : 31260cf Plane : Z with Accessories 2M
Avg.	Date: 8 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m HF_ANT_3117_0107 VERTICAL REW: 1000.000kHz VBW: 10.000kHz Project : 200705 Mode : Mode 10 SN : 31260cf Plane : Z with Accessories 2M	Date: 6 Level (dBuV/m)  Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m HF_ANT_3117_0107 VERTICAL REW: 1000.000kHz VBW: 10.000kHz Project : 200705 Mode : Mode 10 SN : 31260cf Plane : Z with Accessories 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz (sku3)	
6	Horizontal	Fundamental
Peak	Date: 3 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL REW: 1000.000kHz VEW: 3000.000kHz Project : Z00705 Mode : Mode 42 SN : 8018ac5 Plane : Z with Accessories : 2M	Date: 1 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL REW: 1000.000kHz VEW: 3000.000kHz Project : Z00705 Mode : Mode 42 SN : 8018ac5 Plane : Z with Accessories : 2M
Avg.	Date: 4 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL REW: 1000.000kHz VEW: 10.000kHz Project : Z00705 Mode : Mode 42 SN : 8018ac5 Plane : Z with Accessories : 2M	Date: 2 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL REW: 1000.000kHz VEW: 10.000kHz Project : Z00705 Mode : Mode 42 SN : 8018ac5 Plane : Z with Accessories : 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz (sku3)	
6	Vertical	Fundamental
Peak	Date: 7 Level (dBuV/m) Frequency (MHz) Date: 2023-03-29 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : REW 1000.000KHz VBW 3000.000KHz Mode : Z00705 Mode 42 SN : 8018ac5 Plane : Z with Accessories 2M	Date: 5 Level (dBuV/m) Frequency (MHz) Date: 2023-03-29 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : REW 1000.000KHz VBW 3000.000KHz Mode : Z00705 Mode 42 SN : 8018ac5 Plane : Z with Accessories 2M
Avg.	Date: 8 Level (dBuV/m) Frequency (MHz) Date: 2023-03-29 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : REW 1000.000KHz VBW 10.000KHz Mode : Z00705 Mode 42 SN : 8018ac5 Plane : Z with Accessories 2M	Date: 6 Level (dBuV/m) Frequency (MHz) Date: 2023-03-29 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : REW 1000.000KHz VBW 10.000KHz Mode : Z00705 Mode 42 SN : 8018ac5 Plane : Z with Accessories 2M



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
6	Horizontal	Vertical
Peak Avg.	Date: 13 Level (dBuV/m) PEAK_74 AVG_54 Site : 02CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 200705 Mode : Mode S SN : 31260cf Plane : Z with Accessories 2M	Date: 14 Level (dBuV/m) PEAK_74 AVG_54 Site : 02CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 200705 Mode : Mode S SN : 31260cf Plane : Z with Accessories 2M



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
6	Horizontal	Vertical
Peak Avg.	Date: 5 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 200705 Mode : Mode 9 SN : 31260cf Plane : Z with Accessories : 2M	Date: 6 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 200705 Mode : Mode 9 SN : 31260cf Plane : Z with Accessories : 2M
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
6	Horizontal	Vertical
Peak	Date: 15 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 HORIZONTAL Project : 200705 Mode : Mode 10 SN : 31260cf Plane : Z with Accessories : 2M	Date: 16 Level (dBuV/m) Frequency (MHz) Site : 03CH03-SZ Condition : PEAK_74 3m HF_ANT_3117_0107 VERTICAL Project : 200705 Mode : Mode 10 SN : 31260cf Plane : Z with Accessories : 2M



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz (sku3)	
6	Horizontal	Vertical
Peak	Date: 13 Level (dBuV/m) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 3000 6000 9000 12000 15000 18000 Frequency (MHz) PEAK_74 AVG_54 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 42 SN : 8918ac5 Plane : Z with Accessories : 2M	Date: 14 Level (dBuV/m) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 3000 6000 9000 12000 15000 18000 Frequency (MHz) PEAK_74 AVG_54 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 42 SN : 8918ac5 Plane : Z with Accessories : 2M



Emission below 1GHz

2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
6	Horizontal	Vertical
Peak	Date: 1 Level (dBuV/m) Date: 2023-04-02 Site : 02CH03-SZ Condition : FCC CLASS-B 3m VULB9168-01003 HORIZONTAL Project : 200705 Mode : 11 SN : 3267462 Plane : Z with Accessories 2M	Date: 2 Level (dBuV/m) Date: 2023-04-02 Site : 02CH03-SZ Condition : FCC CLASS-B 3m VULB9168-01003 VERTICAL Project : 200705 Mode : 11 SN : 3267462 Plane : Z with Accessories 2M



Co-location

BLE CH39 2480MHz & 11g CH01 2412MHz

BLE (Band Edge @ 3m)

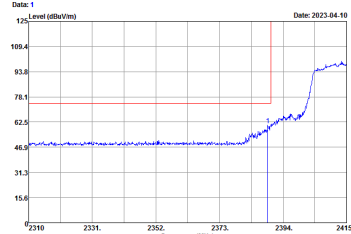
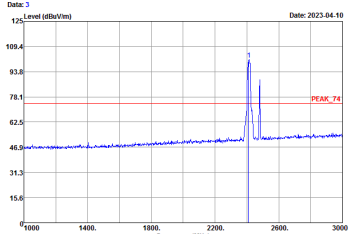
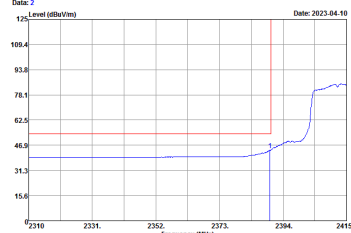
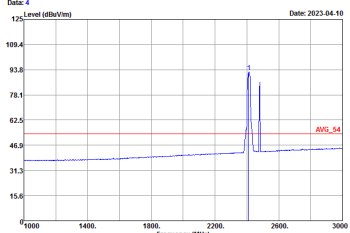
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
6	Horizontal	Fundamental
Peak	Date: 11 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 PEAK_BE_74 Site : 03CH03-S2 Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:3000.000kHz Mode : Z00705 Mode 27 : OF5da SN : Z with Accessories Plane : 6M Power setting 16.5 2M	Date: 9 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 PEAK_74 Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:3000.000kHz Mode : Z00705 Mode 27 : OF5da SN : Z with Accessories Plane : 6M Power setting 16.5 2M
	Date: 12 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 AVG_BE_54 Site : 03CH03-S2 Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:10.000kHz Mode : Z00705 Mode 27 : OF5da SN : Z with Accessories Plane : 6M Power setting 16.5 2M	Date: 10 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 AVG_54 Site : 03CH03-S2 Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:10.000kHz Mode : Z00705 Mode 27 : OF5da SN : Z with Accessories Plane : 6M Power setting 16.5 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
6	Vertical	Fundamental
Peak	Date: 15 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 3000 000KHz Mode : Z07015 Mode 27 : OFSdata SN : Z with Accessories Plane : 6M Power setting 16.5 2M	Date: 13 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 3000 000KHz Mode : Z07015 Mode 27 : OFSdata SN : Z with Accessories Plane : 6M Power setting 16.5 2M
	Date: 16 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 10 000KHz Mode : Z07015 Mode 27 : OFSdata SN : Z with Accessories Plane : 6M Power setting 16.5 2M	Date: 14 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 10 000KHz Mode : Z07015 Mode 27 : OFSdata SN : Z with Accessories Plane : 6M Power setting 16.5 2M



WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
5	Horizontal	Fundamental
Peak	Date: 1  Site : 03CH03-S2 Condition : PEAK_982_74 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:3000.000kHz Mode : 200705 Plane : Mode 27 SN : OFSdata Plane : Y with Accessories 6M Power setting 16.5 2M	Date: 3  Site : 03CH03-S2 Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:3000.000kHz Mode : 200705 Plane : Mode 27 SN : OFSdata Plane : Y with Accessories 6M Power setting 16.5 2M
Avg.	Date: 2  Site : 03CH03-S2 Condition : AVG_BE_54 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:0.010kHz Mode : 200705 Plane : Mode 27 SN : OFSdata Plane : Y with Accessories 6M Power setting 16.5 2M	Date: 4  Site : 03CH03-S2 Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VBW:0.010kHz Mode : 200705 Plane : Mode 27 SN : OFSdata Plane : Y with Accessories 6M Power setting 16.5 2M



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
5	Vertical	Fundamental
Peak	Date: 5 Level (dBuV/m) Date: 2023-04-10 Site Condition : 03CH03-S2 PEAK_BE_74 3m ANT3117_0057 VERTICAL REBW 1000 000KHz VBW 3000 000KHz Z00705 Project Mode 27 SN OFSdeda Plane Y with Accessories GM Power setting 16.5 2M	Date: 7 Level (dBuV/m) Date: 2023-04-10 Site Condition : 03CH03-S2 PEAK_74 3m ANT3117_0057 VERTICAL REBW 1000 000KHz VBW 3000 000KHz Z00705 Project Mode 27 SN OFSdeda Plane Y with Accessories GM Power setting 16.5 2M
Avg.	Date: 6 Level (dBuV/m) Date: 2023-04-10 Site Condition : 03CH03-S2 AVG_BE_54 3m ANT3117_0057 VERTICAL REBW 1000 000KHz VBW 0.010KHz Z00705 Project Mode 27 SN OFSdeda Plane Y with Accessories GM Power setting 16.5 2M	Date: 8 Level (dBuV/m) Date: 2023-04-10 Site Condition : 03CH03-S2 AVG_54 3m ANT3117_0057 VERTICAL REBW 1000 000KHz VBW 0.010KHz Z00705 Project Mode 27 SN OFSdeda Plane Y with Accessories GM Power setting 16.5 2M



(Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
5+6	Horizontal	Vertical
Peak	Date: 21 Level (dBu/Vm) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 3000 6000 9000 12000 15000 18000 Frequency (MHz) PEAK_74 AVG_54 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 27 SN : 0564da Plane : Y with Accessories : 6M Power setting 15.5 : 2M	Date: 22 Level (dBu/Vm) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 3000 6000 9000 12000 15000 18000 Frequency (MHz) PEAK_74 AVG_54 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 27 SN : 0564da Plane : Y with Accessories : 6M Power setting 15.5 : 2M

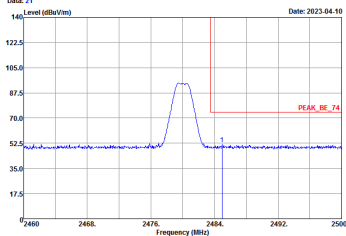
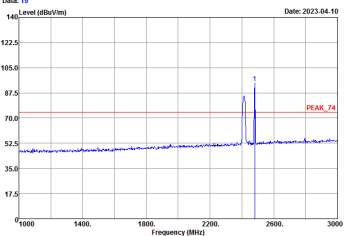
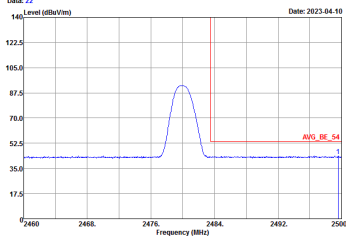
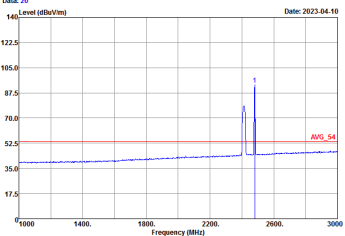


BLE CH39 2480MHz & 11g CH01 2412MHz

BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
5	Horizontal	Fundamental
Peak	Date: 17 Level (dBuV/m) Date: 2023-04-10 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VIEW:3000.000kHz Mode : 200705 Mode 40 SN : 0354eda Plane : Z with Accessories GM Power setting 16.5 2M	Date: 15 Level (dBuV/m) Date: 2023-04-10 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VIEW:3000.000kHz Mode : 200705 Mode 40 SN : 0354eda Plane : Z with Accessories GM Power setting 16.5 2M
	Date: 17 Level (dBuV/m) Date: 2023-04-10 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VIEW:3000.000kHz Mode : 200705 Mode 40 SN : 0354eda Plane : Z with Accessories GM Power setting 16.5 2M	Date: 15 Level (dBuV/m) Date: 2023-04-10 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 HORIZONTAL Project : REW:1000.000kHz VIEW:10.000kHz Mode : 200705 Mode 40 SN : 0354eda Plane : Z with Accessories GM Power setting 16.5 2M



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
5	Vertical	Fundamental
Peak	Date: 21  Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VBW 3000 000KHz Mode : Z00705 Mode : Mode 40 SN : 055daa Plane : Z with Accessories GM Power setting 16.5 2M	Date: 19  Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VBW 3000 000KHz Mode : Z00705 Mode : Mode 40 SN : 055daa Plane : Z with Accessories GM Power setting 16.5 2M
Avg.	Date: 22  Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VBW 10 000KHz Mode : Z00705 Mode : Mode 40 SN : 055daa Plane : Z with Accessories GM Power setting 16.5 2M	Date: 20  Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : REW 1000 000KHz VBW 10 000KHz Mode : Z00705 Mode : Mode 40 SN : 055daa Plane : Z with Accessories GM Power setting 16.5 2M



WIFI 802.11g (Band Edge @ 3m)

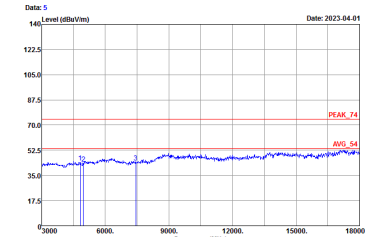
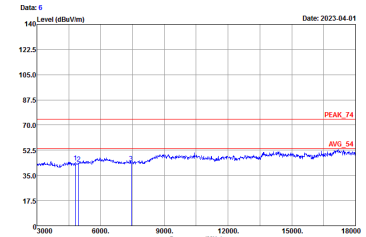
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
6	Horizontal	Fundamental
Peak	Date: 7 Level (dBuV/m) 125 109.4 93.8 78.1 62.5 46.9 31.3 15.6 0 Frequency (MHz) 2310 2331 2352 2373 2394 2415 Site Condition : 03CH03-S2 : PEAK_982_74 3m ANT3117_0057 HORIZONTAL : REW: 1000.000kHz VBW: 3000.000kHz Project : 200705 Mode : Mode 40 SN : 0354da Plane : Y with Accessories : 6M Power setting 16.5 : 2M	Date: 9 Level (dBuV/m) 125 109.4 93.8 78.1 62.5 46.9 31.3 15.6 0 Frequency (MHz) 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 Site Condition : 03CH03-S2 : PEAK_74 3m ANT3117_0057 HORIZONTAL : REW: 1000.000kHz VBW: 3000.000kHz Project : 200705 Mode : Mode 40 SN : 0354da Plane : Y with Accessories : 6M Power setting 16.5 : 2M
Avg.	Date: 8 Level (dBuV/m) 125 109.4 93.8 78.1 62.5 46.9 31.3 15.6 0 Frequency (MHz) 2310 2331 2352 2373 2394 2415 Site Condition : 03CH03-S2 : AVG_BE_54 3m ANT3117_0057 HORIZONTAL : REW: 1000.000kHz VBW: 0.010kHz Project : 200705 Mode : Mode 40 SN : 0354da Plane : Y with Accessories : 6M Power setting 16.5 : 2M	Date: 10 Level (dBuV/m) 125 109.4 93.8 78.1 62.5 46.9 31.3 15.6 0 Frequency (MHz) 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 Site Condition : 03CH03-S2 : AVG_54 3m ANT3117_0057 HORIZONTAL : REW: 1000.000kHz VBW: 0.010kHz Project : 200705 Mode : Mode 40 SN : 0354da Plane : Y with Accessories : 6M Power setting 16.5 : 2M



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
6	Vertical	Fundamental
Peak	Date: 11 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 Site : 03CH03-SZ Condition : PEAK_BE_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 3000 000KHz Mode : Z00705 Mode 40 SN : OFSdeda Plane : Y with Accessories GM Power setting 16.5 2M	Date: 13 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 3000 000KHz Mode : Z00705 Mode 40 SN : OFSdeda Plane : Y with Accessories GM Power setting 16.5 2M
Avg.	Date: 12 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 Site : 03CH03-SZ Condition : AVG_BE_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 0.010KHz Mode : Z00705 Mode 40 SN : OFSdeda Plane : Y with Accessories GM Power setting 16.5 2M	Date: 14 Level (dBuV/m) Frequency (MHz) Date: 2023-04-10 Site : 03CH03-SZ Condition : AVG_54 3m ANT3117_0057 VERTICAL Project : RBW 1000 000KHz VBW 0.010KHz Mode : Z00705 Mode 40 SN : OFSdeda Plane : Y with Accessories GM Power setting 16.5 2M



(Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz & 11g CH01 2412MHz Co-location	
6+5	Horizontal	Vertical
Peak	Date: 5 Level (dBu/Vm) Date: 2023.04.01  Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 HORIZONTAL Project : 200705 Mode : Mode 40 SN : 056da Plane : Y with Accessories : 6M Power setting 15.5 : 2M	Date: 6 Level (dBu/Vm) Date: 2023.04.01  Site : 03CH03-SZ Condition : PEAK_74 3m ANT3117_0057 VERTICAL Project : 200705 Mode : Mode 40 SN : 056da Plane : Y with Accessories : 6M Power setting 15.5 : 2M

Appendix E. Duty Cycle Plots

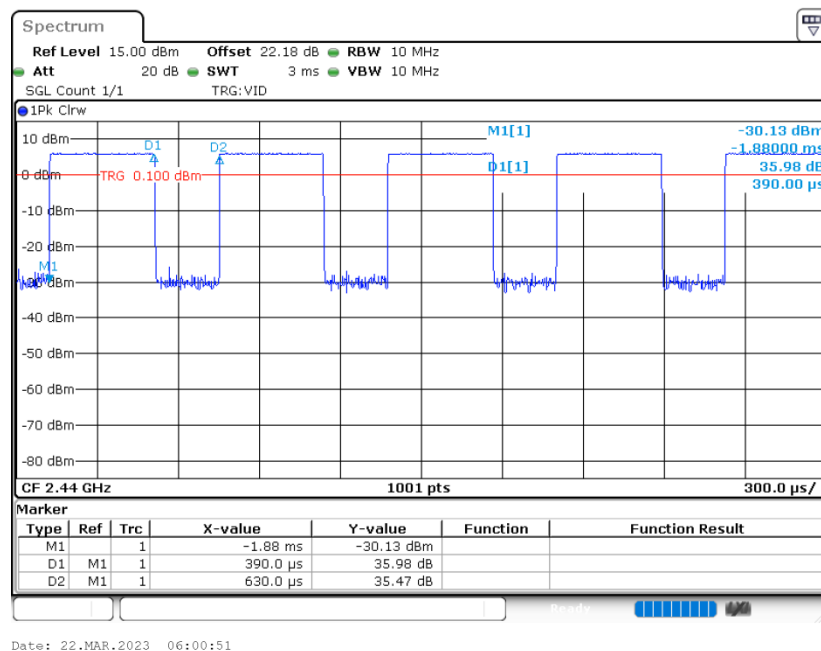
Ant 5:

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 1Mbps	61.905	0.39	2.56	3KHz
Bluetooth LE 2Mbps	33.333	0.21	4.76	10KHZ

Ant 6:

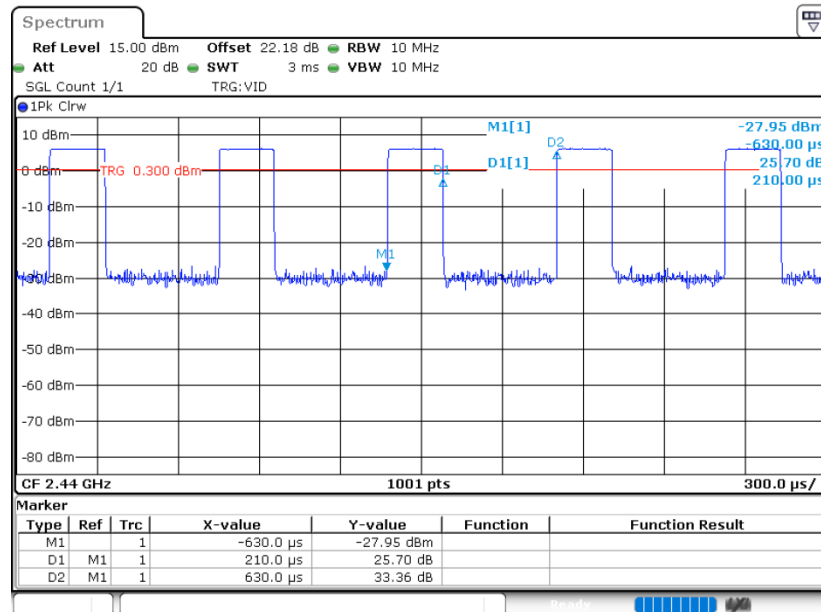
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 1Mbps	62.037	0.388	2.575	3KHz
Bluetooth LE 2Mbps	32.64	0.204	4.894	10KHZ

Ant5 Bluetooth LE 1Mbps



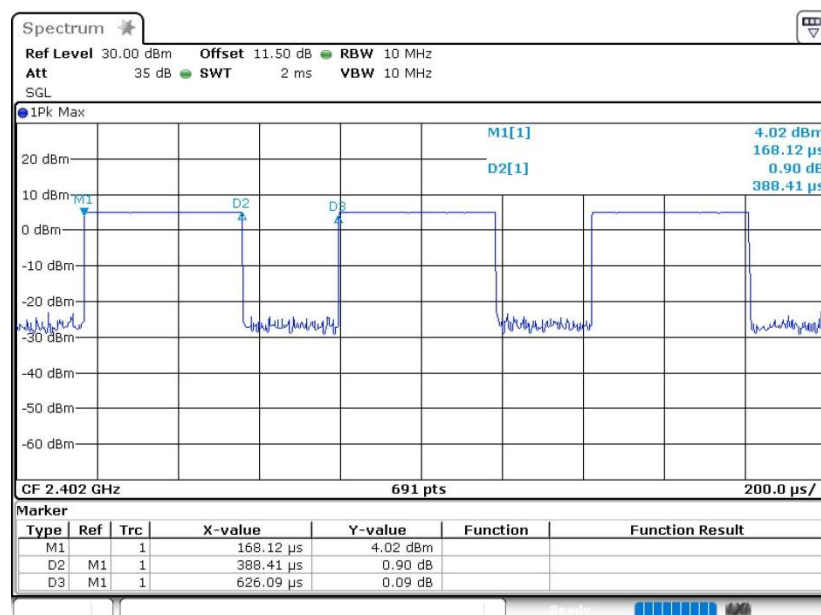


Bluetooth LE 2Mbps



Date: 22.MAR.2023 06:02:13

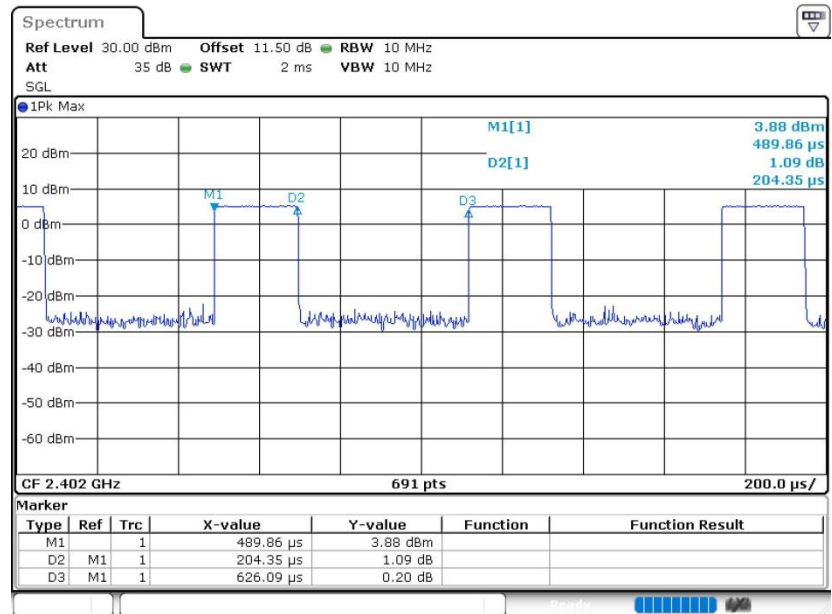
Ant6 Bluetooth LE 1Mbps



Date: 4.FEB.2023 13:27:51



Bluetooth LE 2Mbps



Date: 4.FEB.2023 13:29:22