



Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	51~53%

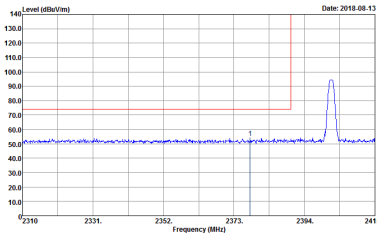
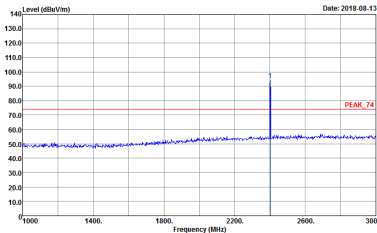
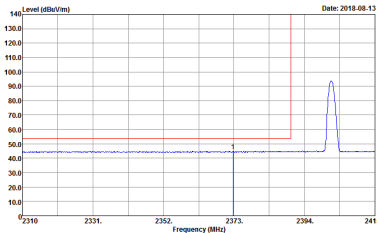
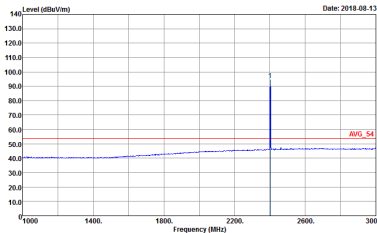
Note symbol

-L	Low channel location
-R	High channel location

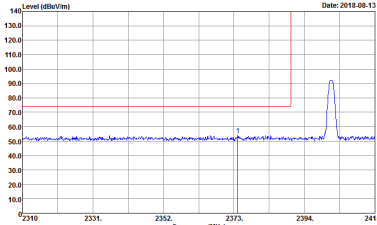
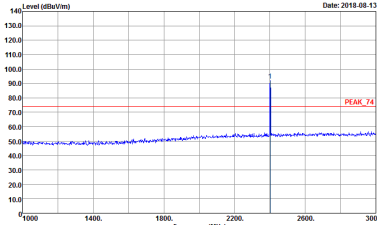
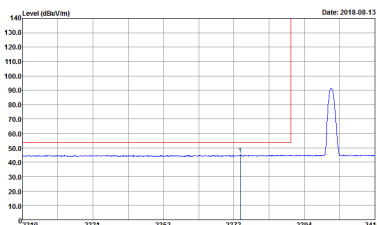
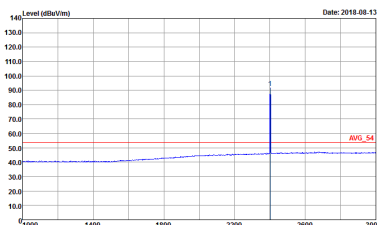


2.4GHz 2400~2483.5MHz

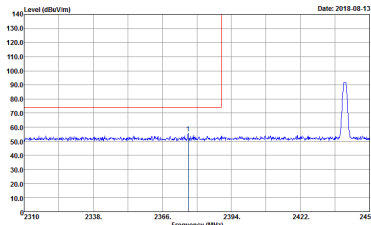
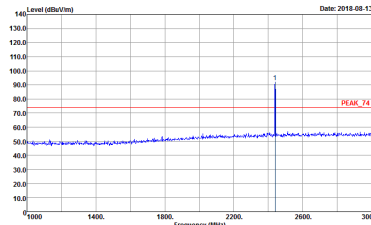
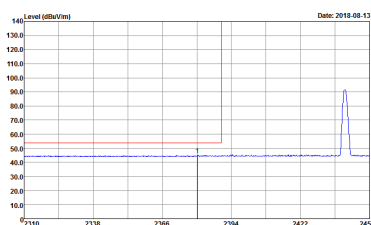
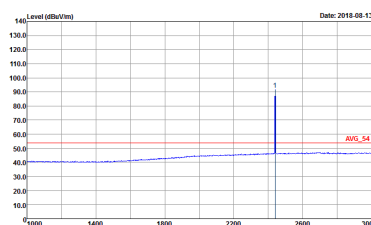
BLE 1Mbps (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 4

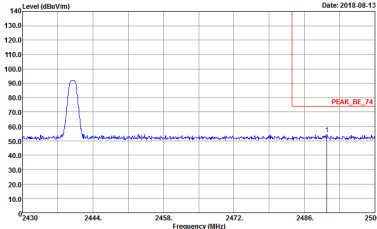
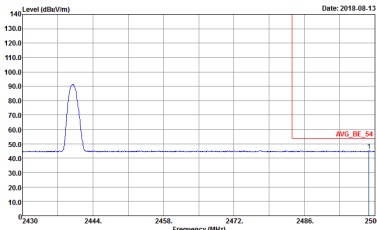


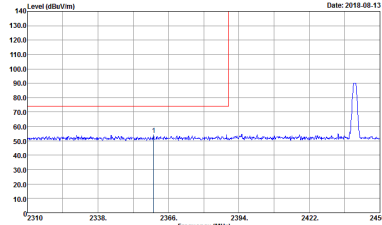
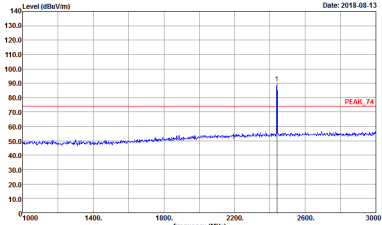
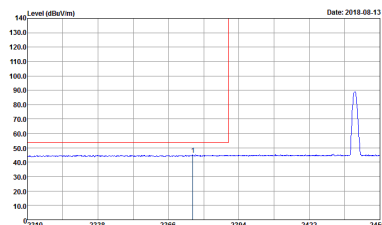
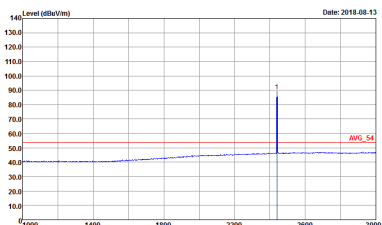
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4
Avg	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 4



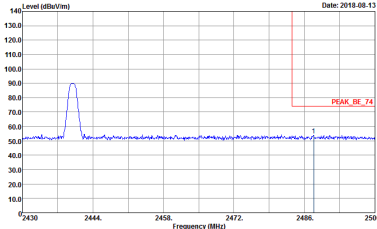
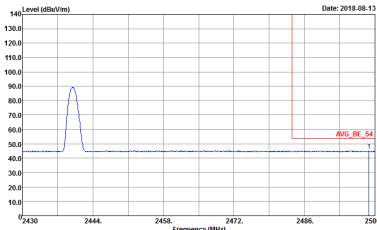
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto Peak Project : 872506 Node : 5	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto Peak Project : 872506 Node : 5
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBN:3.000kHz SMT:Auto Peak Project : 872506 Node : 5	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBN:3.000kHz SMT:Auto Peak Project : 872506 Node : 5



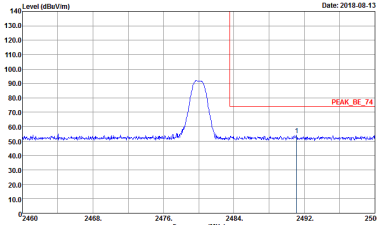
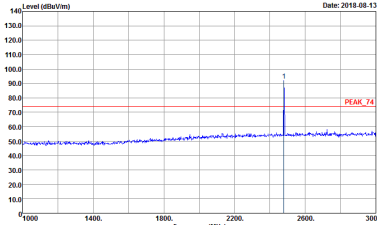
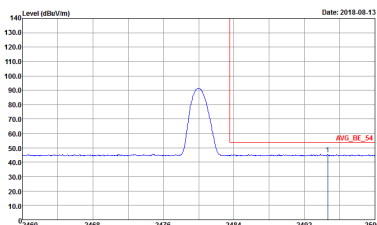
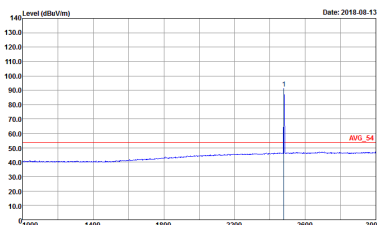
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Project : Peak Mode : 872506 Date: 2018-08-13	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SMT:Auto Project : Peak Mode : 872506 Date: 2018-08-13	Left blank

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5

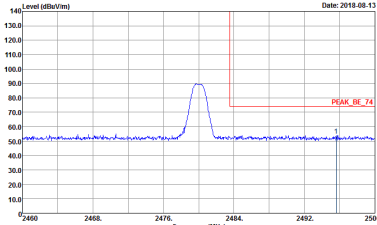
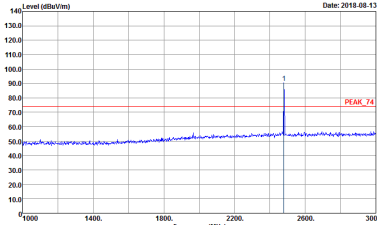
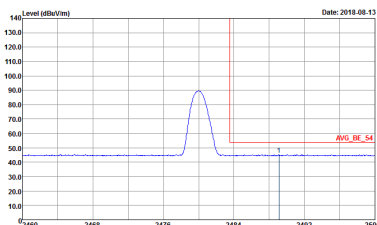
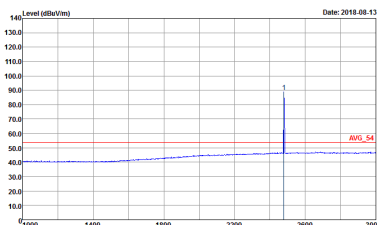


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 5	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 872506 Mode : 6

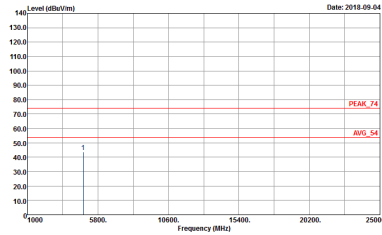
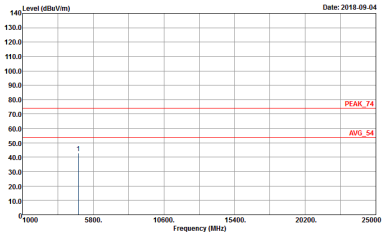


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 872506 Mode : 6

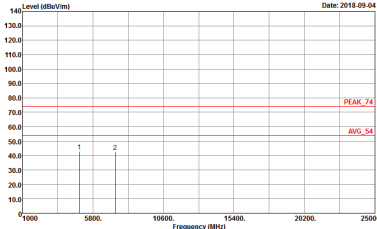
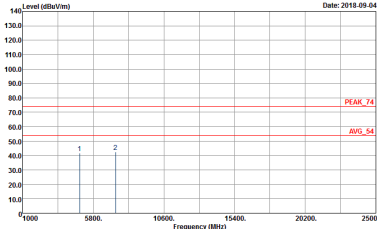


2.4GHz 2400~2483.5MHz

BLE 1Mbps (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 4	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 4



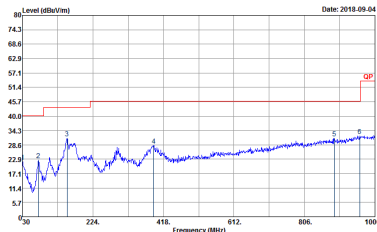
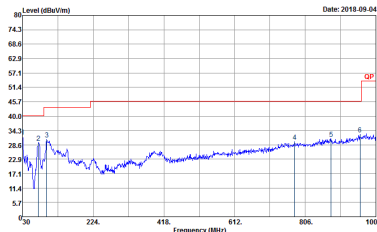
BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 5	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 5



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Vertical
Peak	Level (dBuV/m) Date: 2018-09-04 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 6	Level (dBuV/m) Date: 2018-09-04 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 6



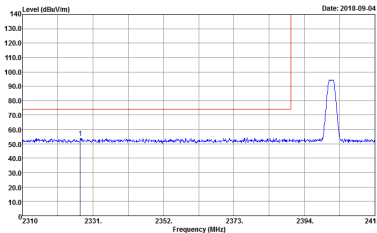
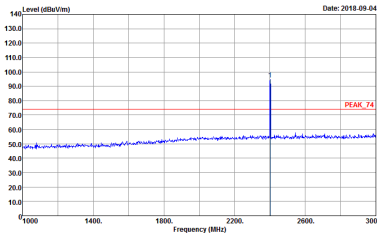
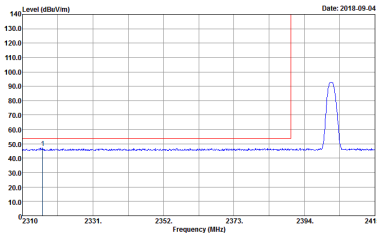
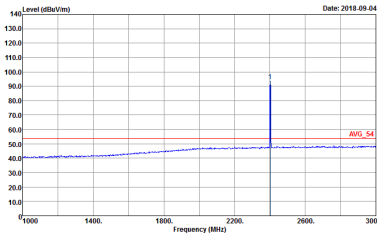
Emission below 1GHz
2.4GHz BLE 1Mbps (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 872506 Mode : 80	 Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 872506 Mode : 80

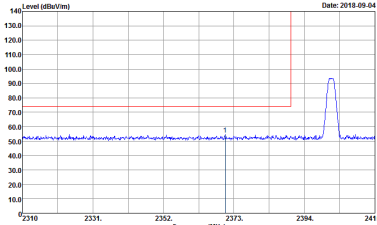
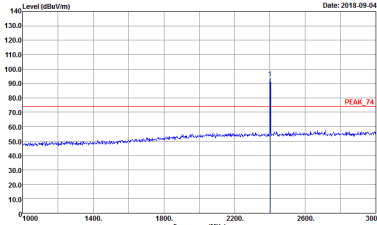
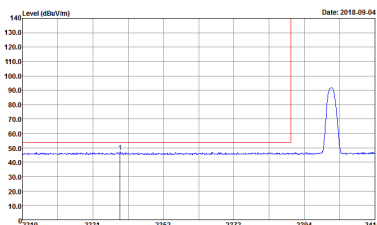
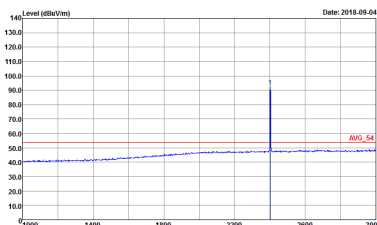


2.4GHz 2400~2483.5MHz

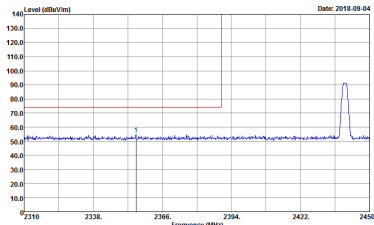
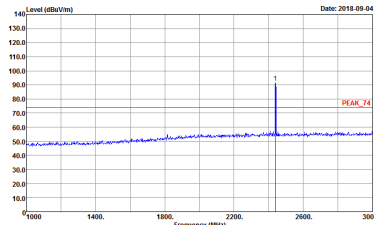
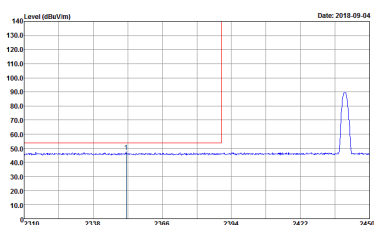
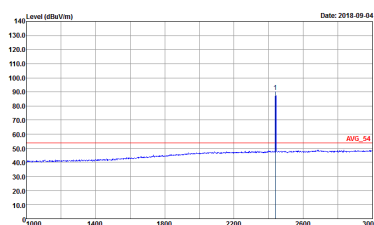
BLE 2Mbps (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:10.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 HORIZONTAL RBW:1000.000kHz VBW:10.000kHz SMT:Auto Detector : Peak Project : 872506 Mode : 7

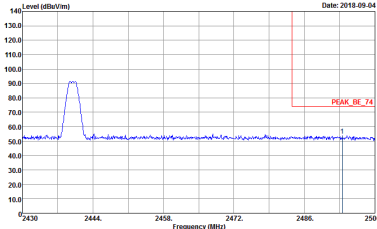
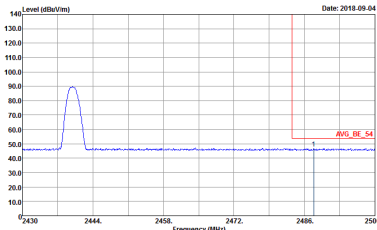


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH00 2402MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7
Avg	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 7



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL Detector : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL Detector : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL Detector : RBW:1000.000kHz VBN:10.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 HORIZONTAL Detector : RBW:1000.000kHz VBN:10.000kHz SMT:Auto Project : Peak Node : 872506 Node : 8

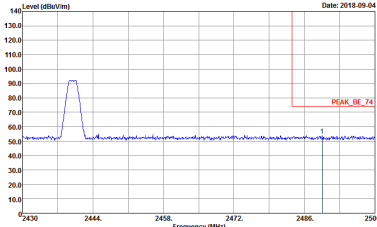
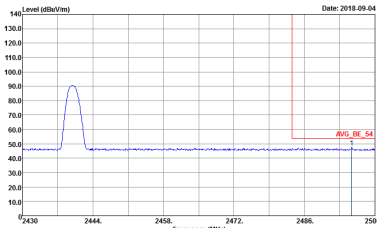


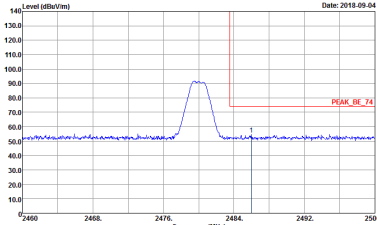
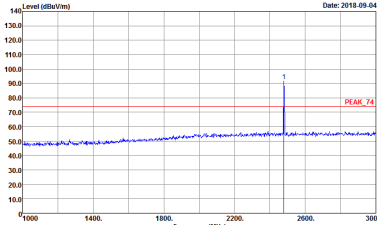
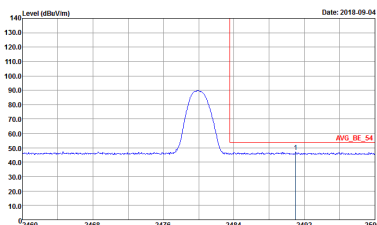
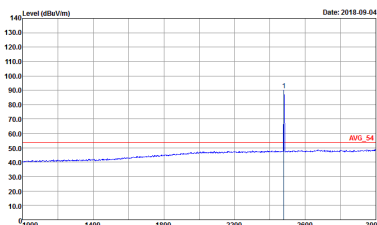
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74_3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : B	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54_3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : B	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 8	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 8
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 8	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 8



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : B	Left blank

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 HORIZONTAL Detector : Peak Project : 872506 Mode : 9

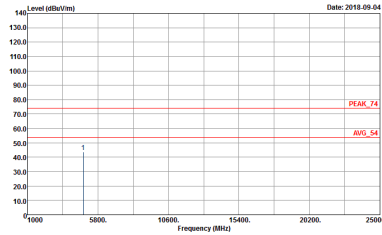
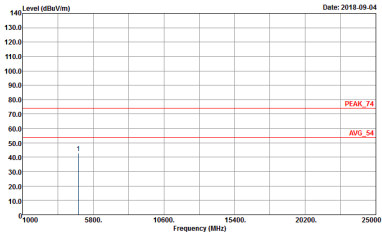


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00066583 VERTICAL Detector : Peak Project : 872506 Mode : 9

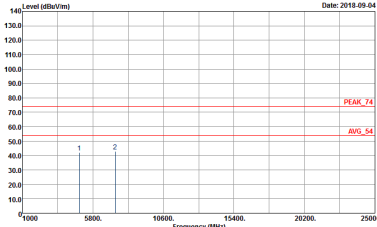
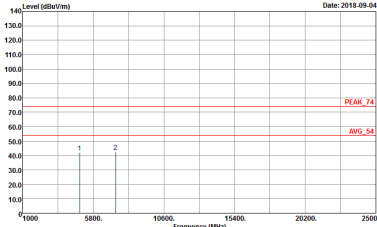


2.4GHz 2400~2483.5MHz

BLE 2Mbps (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH00 2402MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 7	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 7

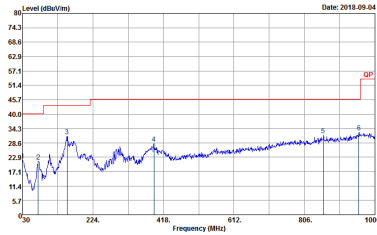
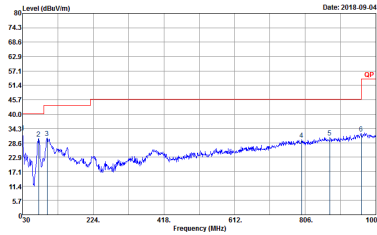


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 8	 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 8



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Vertical
Peak	Level (dBuV/m) Date: 2018-09-04 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 872506 Mode : 9	Level (dBuV/m) Date: 2018-09-04 Site : 03CH07-HY Condition : PEAK_74 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 872506 Mode : 9

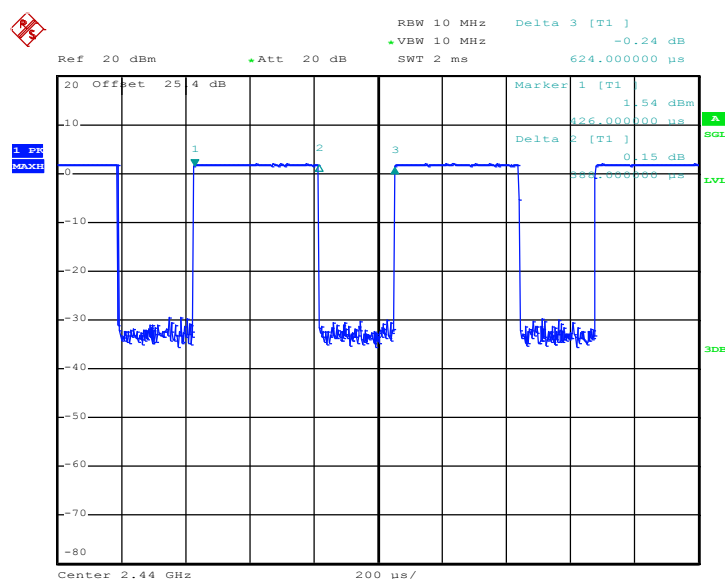
Emission below 1GHz
2.4GHz BLE 2Mbps (LF)

BLE	2.4GHz 2400~2483.5MHz	
ANT	BLE LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 872506 Mode : B1	 Site : 03CM07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 872506 Mode : B1

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
Bluetooth – LE for 1Mbps	62.18	388.00	2.58	3kHz	2.06
Bluetooth – LE for 2Mbps	32.48	204.00	4.90	10kHz	4.88

Bluetooth – LE for 1Mbps



Date: 7.SEP.2018 18:12:27



Report No. : FR872506B

