



Spot Check Evaluation

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REVISION HISTORY

VERSION	DESCRIPTION	ISSUED DATE
Rev. 01	Initial issue of report	Oct. 26, 2017
Rev. 02	Add WWAN and LTE test data in this report.	Nov. 01, 2017



1. Introduction Section

The original model (FCC ID: PY7-08608T) and the variant model (FCC ID: PY7-14706B) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/NFC/GPS. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS, DXX) and Part 15E (equipment class: NII) test data issued test data of PY7-14706B references the test data of PY7-08608T

The original model (FCC ID: PY7-08608T) and the variant model (FCC ID: PY7-14706B) has identical PCB layout, antenna, SW implementation for GSM/WCDMA/LTE. Based on their similarity, the FCC Part 22, 24, 27 (equipment class: PCE) test data issued test data of PY7-14706B references the test data of PY7-08608T

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: PY7-14706B).



2. Difference Section

The original model (FCC ID: PY7-08608T) and the variant model (FCC ID: PY7-14706B) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/NFC/GPS. The details of similarity and difference can be found in the Operating Description.

The original model (FCC ID: PY7-08608T) and the variant model (FCC ID: PY7-14706B) has identical PCB layout, antenna, SW implementation for GSM/WCDMA/LTE. The details of similarity and difference can be found in the Operating Description.

Cellular transmitter RF components are different in PY7-14706B, to support capability for different cellular bands.

The product specification is outlined in the following table:

FCC ID			PY7-08608T	PY7-14706B
Wireless Tech	Mode		Frequency (MHz)	
GSM	GSM Voice GPRS (GMSK) EDGE (8PSK)	Multi-Slot Class 12 DTM: No	850/1900	850/1900
UMTS	AMR/RCM12.2Kbps HSDPA/HSUPA/DC-HSDPA		B5/B2	B5/B2
LTE (FDD)	QPSK/16QAM/64QAM		B5/B2/B7/B41	B5/B2/B7
Wi-Fi	11b/11g/11n(HT20)/11ac(VHT20)		2412-2462	
	11a/11n(HT20)/11n(HT40)/		5180-5240	
	11ac(VHT20)/ 11ac(VHT40)/		5260-5320	
	11ac(VHT80)		5500-5720 5745-5825	
Bluetooth	V5.0 LE		2402-2480 MHz	
NFC	ASK		13.56 MHz	



3. Spot Check Verification Data Section

Summary of the spot check:

Test Item	Mode	PY7-08608T Worst Result	PY7-14706B Worst Result	Difference (dB)
Average Conducted Power (dBm)	802.11b	15.98	15.85	0.13
	802.11g	13.99	13.97	0.02
	11n HT20	13.99	13.85	0.14
	11ac VHT20	13.96	13.64	0.32
	BT (1Mbps)	9.69	10.43	-0.74
	BT (2Mbps)	6.57	6.94	-0.37
	BT (3Mbps)	6.50	6.97	-0.47
	BT-LE(1Mbps)	1.16	0.77	0.39
	BT-LE(2Mbps)	1.08	0.78	0.30
	11a, 5.2GHz	16.99	16.85	0.14
	11n HT20, 5.2GHz	13.90	13.94	-0.04
	11n HT40, 5.2GHz	12.96	12.95	0.01
	11ac VHT20, 5.2GHz	13.99	13.94	0.05
	11ac VHT40, 5.2GHz	12.97	12.94	0.03
	11ac VHT80, 5.2GHz	11.77	11.80	-0.03
	11a, 5.3GHz	16.94	16.93	0.01
	11n HT20, 5.3GHz	13.74	13.99	-0.25
	11n HT40, 5.3GHz	12.87	12.77	0.10
	11ac VHT20, 5.3GHz	13.97	13.96	0.01
	11ac VHT40, 5.3GHz	12.96	12.72	0.24
	11ac VHT80, 5.3GHz	11.74	11.94	-0.20
	11a, 5.5GHz	16.84	16.80	0.04
	11n HT20, 5.5GHz	13.68	13.97	-0.29
	11n HT40, 5.5GHz	12.66	12.95	-0.29
	11ac VHT20, 5.5GHz	13.99	13.97	0.02
	11ac VHT80, 5.5GHz	12.69	12.89	-0.20
	11ac VHT80, 5.5GHz	11.79	11.88	-0.09
	11a, 5.8GHz	16.82	16.63	0.19
	11n HT20, 5.8GHz	13.82	13.97	-0.15
	11n HT40, 5.8GHz	12.75	12.80	-0.05
	11ac VHT20, 5.8GHz	14.00	13.86	0.14
	11ac VHT40, 5.8GHz	12.77	12.76	0.01
	11ac VHT80, 5.8GHz	11.82	11.79	0.03
	S/N of test sample	RQ3005UYBC	CQ300000E4 RQ3005TJ01	
	Test date	2017/08/10~2017/08/25	2017/09/15~2017/10/20	
	GSM 850 (GPRS)	34.00	34.00	0.00
	GSM 850 (EDGE)	27.42	27.25	0.17
	GSM1900(GPRS)	31.00	31.00	0.00
	GSM1900(EDGE)	26.00	25.67	0.33
	UMTS B2 (RMC 12.2Kbps)	23.94	24.00	-0.06
	UMTS B5 (RMC 12.2Kbps)	24.88	24.97	-0.09
	LTE B2 (FDD - QPSK)	23.79	23.75	0.04
	LTE B5 (FDD - QPSK)	24.42	24.50	-0.08
	LTE B7 (FDD - QPSK)	24.41	24.39	0.02
	S/N of test sample	CQ300000F1	CQ300001ZY	
	Test date	2017/06/07~2017/10/06	2017/09/27	



Test Item	Mode	PY7-08608T Worst Result	PY7-14706B Worst Result	Difference (dB)
Peak Radiated Spurious Emission (Band Edge) (dBuV/m)	802.11b	52.45	52.71	-0.26
	802.11ac VHT20	53.75	53.29	0.46
	BT (2Mbps)	45.04	43.93	1.11
	BT-LE(2Mbps)	51.35	52.13	-0.78
	802.11a, 5.2GHz	55.61	56.49	-0.88
	802.11a, 5.3GHz	54.99	57.74	-2.75
	802.11a, 5.5GHz	61.27	61.36	-0.09
	802.11a, 5.8GHz	49.82	51.04	-1.22
	S/N of test sample	RQ3005VVKR CQ300000EW	CQ300000E4 CQ300001XP	
	Test date	2017/09/11~2017/09/29	2017/09/15~2017/09/25	
Average Radiated Spurious Emission (Band Edge) (dBuV/m)	802.11b	41.08	40.79	0.29
	802.11ac VHT20	44.26	43.30	0.96
	BT (2Mbps)	20.28	19.14	1.14
	BT-LE(2Mbps)	44.12	44.29	-0.17
	802.11a, 5.2GHz	43.55	43.60	-0.05
	802.11a, 5.3GHz	43.83	43.86	-0.03
	802.11a, 5.5GHz	47.94	47.13	0.81
	S/N of test sample	RQ3005VVKR CQ300000EW	CQ300000E4 CQ300001XP	
	Test date	2017/09/11~2017/09/29	2017/09/15~2017/09/25	
Peak Radiated Spurious Emission (Harmonic) (dBuV/m)	802.11b	48.06	45.07	2.99
	802.11ac VHT20	39.90	41.14	-1.24
	BT (2Mbps)	43.34	42.86	0.48
	BT-LE(2Mbps)	43.63	43.69	-0.06
	802.11a, 5.2GHz	47.98	49.65	-1.67
	802.11a, 5.3GHz	47.89	49.20	-1.31
	802.11a, 5.5GHz	59.45	57.83	1.62
	802.11a, 5.8GHz	54.35	52.54	1.81
	S/N of test sample	RQ3005VVKR CQ300000EW	CQ300000E4 CQ300001XP	
	Test date		2017/09/15~2017/09/25	
Average Radiated Spurious Emission (Harmonic) (dBuV/m)	802.11a, 5.5GHz	43.85	42.52	1.33
	S/N of test sample	CQ300000EW	CQ300000E4	
	Test date	2017/09/19~2017/09/29	2017/09/15~2017/09/25	
NFC (dBuV/m)	RSE (30MHz to1GHz)	36.67	35.10	1.57
	S/N of test sample	CQ300001B3	CQ300001XX	
	Test date	2017/09/20	2017/10/2~2017/10/03	



Conclusion:

Radiated spurious emission test against the variant model for non-cellular part based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result (power levels measured are within 1dB, and the worst case of RSE spot check verification based on the worst condition from the original model is within 3dB, and are compliance with the limits), the test data from the original model is representative for the variant model.

The unwanted, harmonics, radiated spurious emission is reported peak measurement only due to spurious lower than 20dB than the limit, 74dBuv/m, without further reporting the average measurement except for the 802.11a, 5.5GHz CH140

The detail test results can be found in this document, Appendix A, hereafter.



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID	Type Grant/ Permissive Change	Reference Report Title	Reference Application	Reference Report Sections
15C	DTS	Bluetooth – LE Wii-Fi	2400~2483.5	PY7-08608T	Original Grant	FCC RF Test Report	PY7-14706B	Part 15C (FR760710-01-B, FR760710-01C)
	DSS	Bluetooth	2400~2483.5	PY7-08608T	Original Grant	FCC RF Test Report	PY7-14706B	Part 15C (FR760710-01A)
	DXX	NFC	13.56	PY7-08608T	Original Grant	FCC RF Test Report	PY7-14706B	Part 15C (FR760710-01D)
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	PY7-08608T	Original Grant	FCC RF Test Report	PY7-14706B	Part 15E (FR760710-01E, FR760710-01F, FZ760710-01)
Part 22.24.27	PCE	GSM WCDMA	GSM/GPRS(EDGE)850 GSM/GPRS(EDGE)1900 WCDMA B2 WCDMA B5	PY7-08608T	Original Grant	FCC RF Test Report	PY7-14706B	Part 22.24.27 (FG760710-01A)
Part 22.24.27	PCE	LTE	LTE B2/B5/B7	PY7-08608T			PY7-14706B	Part 22.24.27 (FG760710-01B)

Appendix A. Spot Check Test Result

1.1 Conducted power

<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-08608T Average power (dBm)	FCC ID PY7-14706B Average power (dBm)
2.4GHz WLAN	802.11b	CH 1	2412	1Mbps	16	15.98	15.85
		CH 6	2437			15.81	15.74
		CH 11	2462			15.92	15.73
	802.11g	CH 1	2412	6Mbps	14	13.81	13.63
		CH 6	2437			13.64	13.97
		CH 11	2462			13.99	13.71
	802.11n-HT20	CH 1	2412	MCS0	14	13.98	13.52
		CH 6	2437			13.99	13.85
		CH 11	2462			13.93	13.57
	802.11ac VHT20	CH 1	2412	MCS0	14	13.96	13.49
		CH 6	2437			13.93	13.64
		CH 11	2462			13.91	13.56

**<Bluetooth>**

Mode	Channel	Frequency (MHz)	Tune-Up Limit	FCC ID PY7-08608T Average power (dBm)	FCC ID PY7-14706B Average power (dBm)
Bluetooth (1Mbps)	CH 00	2402	10.5	9.69	10.43
	CH 39	2441		8.94	9.91
	CH 78	2480		9.16	9.78
Bluetooth (2Mbps)	CH 00	2402	7	6.57	6.94
	CH 39	2441		5.85	6.52
	CH 78	2480		6.14	6.92
Bluetooth (3Mbps)	CH 00	2402	7	6.50	6.97
	CH 39	2441		5.79	6.54
	CH 78	2480		6.03	6.93
BLE (GFSK) (1Mbps)	CH 00	2402	1.5	0.83	0.45
	CH 19	2440		0.68	0.15
	CH 39	2480		1.16	0.77
BLE (GFSK) (2Mbps)	CH 00	2402	1.5	0.68	0.40
	CH 19	2440		0.61	0.12
	CH 39	2480		1.08	0.78

**<5GHz WLAN>**

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-08608T Average power (dBm)	FCC ID PY7-14706B Average power (dBm)
	802.11a	CH 36	5180	6Mbps	17	16.99	16.85
		CH 44	5220			16.74	16.83
		CH 48	5240			16.55	16.63
	802.11n-HT20	CH 36	5180	MCS0	14	13.90	13.94
		CH 44	5220			13.69	13.82
		CH 48	5240			13.61	13.70
	802.11n-HT40	CH 38	5190	MCS0	13	12.96	12.80
		CH 46	5230			12.91	12.95
	802.11ac VHT20	CH 36	5180	MCS0	14	13.92	13.94
		CH 44	5220			13.99	13.81
		CH 48	5240			13.98	13.71
	802.11ac VHT40	CH 38	5190	MCS0	13	12.97	12.77
		CH 46	5230			12.92	12.94
	802.11ac VHT80	CH 42	5210	MCS0	12	11.77	11.80



5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-08608T Average power (dBm)	FCC ID PY7-14706B Average power (dBm)
	802.11a	CH 52	5260	6Mbps	17	16.51	16.53
		CH 60	5300			16.74	16.88
		CH 64	5320			16.94	16.93
	802.11n-HT20	CH 52	5260	MCS0	14	13.65	13.99
		CH 60	5300			13.74	13.97
		CH 64	5320			13.64	13.85
	802.11n-HT40	CH 54	5270	MCS0	13	12.87	12.77
		CH 62	5310			12.66	12.74
	802.11ac VHT20	CH 52	5260	MCS0	14	13.97	13.96
		CH 60	5300			13.76	13.95
		CH 64	5320			13.66	13.84
	802.11ac VHT40	CH 54	5270	MCS0	13	12.94	12.72
		CH 62	5310			12.96	12.63
	802.11ac VHT80	CH58	5290	MCS0	12	11.74	11.94



5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-08608T Average power (dBm)	FCC ID PY7-14706B Average power (dBm)
	802.11a	CH 100	5500	6Mbps	17	16.84	16.80
		CH 116	5580			16.55	16.76
		CH 140	5700			16.54	16.73
		CH144	5720			16.60	16.61
	802.11n-HT20	CH 100	5500	MCS0	14	13.68	13.97
		CH 116	5580			13.58	13.95
		CH 140	5700			13.62	13.67
		CH144	5720			13.51	13.57
	802.11n-HT40	CH 102	5510	MCS0	13	12.64	12.95
		CH 126	5630			12.61	12.72
		CH 134	5670			12.61	12.70
		CH142	5710			12.66	12.61
	802.11ac VHT20	CH 100	5500	MCS0	14	13.70	13.97
		CH 116	5580			13.87	13.86
		CH 140	5700			13.54	13.63
		CH144	5720			13.99	13.61
	802.11ac VHT40	CH 102	5510	MCS0	13	12.69	12.88
		CH 126	5630			12.64	12.67
		CH 134	5670			12.66	12.55
		CH142	5710			12.68	12.89
	802.11ac VHT80	CH106	5530	MCS0	12	11.79	11.65
		CH122	5610			11.58	11.88
		CH138	5690			11.56	11.78



5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-08608T Average power (dBm)	FCC ID PY7-14706B Average power (dBm)
	802.11a	CH 149	5745	MCS0	17	16.69	16.63
		CH 157	5785			16.80	16.58
		CH 165	5825			16.82	16.52
	802.11n-HT20	CH 149	5745	MCS0	14	13.80	13.97
		CH 157	5785			13.82	13.81
		CH 165	5825			13.50	13.79
	802.11n-HT40	CH 151	5755	MCS0	13	12.75	12.80
		CH 159	5795			12.56	12.60
	802.11ac VHT20	CH 149	5745	MCS0	14	13.82	13.86
		CH 157	5785			14.00	13.80
		CH 165	5825			13.53	13.69
	802.11ac VHT40	CH 151	5755	MCS0	13	12.77	12.76
		CH 159	5795			12.58	12.56
	802.11ac VHT80	CH155	5775	MCS0	12	11.82	11.79



1.2 Radiated Spurious Emission

2.4GHz BT/WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg.	FCC ID PY7-08608T						FCC ID PY7-14706B					
				Band edge			Harmonic			Band edge			Harmonic		
				Frequency	Level	Limit	Frequency	Level	Limit	Frequency	Level	Limit	Frequency	Level	Limit
				(MHz)	(dBuV/m)	(dBuV/m)	(MHz)	(dBuV/m)	(dBuV/m)	(MHz)	(dBuV/m)	(dBuV/m)	(MHz)	(dBuV/m)	(dBuV/m)
BT(2Mbps)	CH 78	2480	P	2483.68	45.04	74	7440	43.34	74	2483.72	43.93	74	7440	42.86	74
			A	2483.68	20.28	54	-	-	-	2483.72	19.14	54	-	-	-
BLE(2Mbps)	CH 19	2440	P	2496.64	51.35	74	7320	43.63	74	2492.51	52.13	74	7320	43.69	74
			A	2485.79	44.12	54	-	-	-	2494.19	44.29	54	-	-	-
802.11b	CH 11	2462	P	2486.04	52.45	74	7386	48.06	74	2488	52.71	74	7386	45.07	74
			A	2483.52	41.08	54	-	-	-	2483.56	40.79	54	-	-	-
802.11n-HT20	CH 1	2412	P	2389.905	53.75	74	4824	39.9	74	2390	53.29	74	4824	41.14	74
			A	2390	44.26	54	-	-	-	2390	43.3	54	-	-	-

5.2GHz WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg.	FCC ID PY7-08608T						FCC ID PY7-14706B					
				Band edge			Harmonic			Band edge			Harmonic		
				Frequency	Level	Limit	Frequency	Level	Limit	Frequency	Level	Limit	Frequency	Level	Limit
				(MHz)	(dBuV/m)	(dBuV/m)	(MHz)	(dBuV/m)	(dBuV/m)	(MHz)	(dBuV/m)	(dBuV/m)	(MHz)	(dBuV/m)	(dBuV/m)
802.11a	CH 48	5240	P	5447.4	55.61	74	10480	47.98	74	5064.74	56.49	74	15720	49.65	74
			A	5351.08	43.55	54	-	-	-	5386.8	43.6	54	-	-	-

**5.3GHz WLAN**

Mode	Ch	Freq. (MHz)	Peak /Avg	FCC ID PY7-08608T						FCC ID PY7-14706B					
				Band edge			Harmonic			Band edge			Harmonic		
				Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)
802.11a	CH 64	5320	P	5357.76	54.99	74	10640	47.89	74	5361.6	57.74	74	15960	49.2	74
			A	5358.24	43.83	54	-	-	-	5353.28	43.86	54	-	-	-

5.5GHz WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg	FCC ID PY7-08608T						FCC ID PY7-14706B					
				Band edge			Harmonic			Band edge			Harmonic		
				Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)
802.11a	CH 140	5700	P	5725.08	61.27	74	17100	59.45	74	5725.32	61.36	74	17100	57.83	74
			A	5725.08	47.94	54	17100	43.85	54	5725	47.13	54	17100	42.52	54

5.8GHz WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg	FCC ID PY7-08608T						FCC ID PY7-14706B					
				Band edge			Harmonic			Band edge			Harmonic		
				Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)
802.11a	CH 149	5745	P	5644.6	49.82	68.2	17235	54.35	68.2	5604.8	51.04	68.2	17230	52.54	68.2



2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 19 2440MHz		2384.2	51.69	-22.31	74	41.08	26.84	4.83	30.99	112	225	P	H
		2311.82	43.75	-10.25	54	33.46	26.63	4.74	31.01	112	225	A	H
	*	2440	87.08	-	-	76.2	27.04	4.88	30.97	112	225	P	H
	*	2440	85.85	-	-	74.97	27.04	4.88	30.97	112	225	A	H
		2492.51	52.13	-21.87	74	41.03	27.2	4.93	30.96	112	225	P	H
		2488.31	44.13	-9.87	54	33.03	27.2	4.93	30.96	112	225	A	H
		2381.4	51.57	-22.43	74	40.96	26.84	4.83	30.99	234	268	P	V
		2361.1	44.25	-9.75	54	33.73	26.79	4.8	31	234	268	A	V
	*	2440	89.78	-	-	78.9	27.04	4.88	30.97	234	268	P	V
	*	2440	88.26	-	-	77.38	27.04	4.88	30.97	234	268	A	V
		2493.56	52.09	-21.91	74	40.99	27.2	4.93	30.96	234	268	P	V
		2494.19	44.29	-9.71	54	33.19	27.2	4.93	30.96	234	268	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 19 2440MHz		4880	38.37	-35.63	74	55.97	31.63	7.44	57.17	100	0	P	H
		7320	43.69	-30.31	74	55.19	36.19	9.14	57.29	100	0	P	H
													H
													H
		4880	38.52	-35.48	74	56.12	31.63	7.44	57.17	100	0	P	V
		7320	43.48	-30.52	74	54.98	36.19	9.14	57.29	100	0	P	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 (Band Edge @ 3m)

BT	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz	*	2480	93.73	-	-	92.63	27.15	4.92	30.97	400	158	P	H
	*	2480	68.94	-	-	-	-	-	-	-	-	A	H
		2493	41.97	-32.03	74	40.8	27.2	4.93	30.96	400	158	P	H
		2493	17.18	-36.82	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	96.47	-	-	95.37	27.15	4.92	30.97	251	254	P	V
	*	2480	71.68	-	-	-	-	-	-	-	-	A	V
		2483.72	43.93	-30.07	74	42.82	27.15	4.93	30.97	251	254	P	V
		2483.72	19.14	-34.86	54	-	-	-	-	-	-	A	V
													V
													V
Remark	3. No other spurious found. 4. 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)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz		4960	40.01	-33.99	74	57.23	31.75	7.59	57.05	100	0	P	H
		4960	15.22	-38.78	54	-	-	-	-	-	-	A	H
		7440	42.75	-31.25	74	54.11	36.41	9.21	57.44	100	0	P	H
		7440	17.96	-36.04	54	-	-	-	-	-	-	A	H
		4960	39.12	-34.88	74	56.34	31.75	7.59	57.05	100	0	P	V
		4960	14.33	-39.67	54	-	-	-	-	-	-	A	V
		7440	42.86	-31.14	74	54.22	36.41	9.21	57.44	100	0	P	V
		7440	18.07	-35.93	54	-	-	-	-	-	-	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 11 2462MHz	*	2462	101.86	-	-	90.9	27.1	4.9	30.97	400	155	P	H
	*	2462	98.78	-	-	87.82	27.1	4.9	30.97	400	155	A	H
		2490.64	52.18	-21.82	74	41.08	27.2	4.93	30.96	400	155	P	H
		2483.56	40.79	-13.21	54	29.75	27.15	4.93	30.97	400	155	A	H
													H
													H
	*	2462	101.4	-	-	90.44	27.1	4.9	30.97	278	282	P	V
	*	2462	98.22	-	-	87.26	27.1	4.9	30.97	278	282	A	V
		2488	52.71	-21.29	74	41.61	27.2	4.93	30.96	278	282	P	V
		2487.76	40.77	-13.23	54	29.67	27.2	4.93	30.96	278	282	A	V
													V
													V
Remark	5. No other spurious found. 6. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 11 2462MHz		4924	44.78	-29.22	74	62.16	31.7	7.52	57.1	100	0	P	H
		7386	45.07	-28.93	74	56.52	36.31	9.18	57.38	100	0	P	H
													H
													H
		4924	41.77	-32.23	74	59.15	31.7	7.52	57.1	100	0	P	V
		7386	43.95	-30.05	74	55.4	36.31	9.18	57.38	100	0	P	V
													V
													V
Remark	5. No other spurious found. 6. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 01 2412MHz		2389.8	53.16	-20.84	74	42.5	26.89	4.83	30.99	383	146	P	H
		2390	43.3	-10.7	54	32.64	26.89	4.83	30.99	383	146	A	H
	*	2412	98.55	-	-	87.8	26.94	4.87	30.99	383	146	P	H
	*	2412	90.35	-	-	79.6	26.94	4.87	30.99	383	146	A	H
													H
													H
		2390	53.29	-20.71	74	42.63	26.89	4.83	30.99	204	264	P	V
		2390	43.18	-10.82	54	32.52	26.89	4.83	30.99	204	264	A	V
	*	2412	99.82	-	-	89.07	26.94	4.87	30.99	204	264	P	V
	*	2412	91.38	-	-	80.63	26.94	4.87	30.99	204	264	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

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 01 2412MHz		4824	41.14	-32.86	74	58.98	31.56	7.33	57.24	100	0	P	H
													H
													H
													H
		4824	39.99	-34.01	74	57.83	31.56	7.33	57.24	100	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 48 5240MHz		5064.74	56.49	-17.51	74	49.02	32.49	5.93	30.95	100	151	P	H
		5105.56	43.36	-10.64	54	35.88	32.48	5.95	30.95	100	151	A	H
	*	5240	104.36	-	-	96.81	32.45	6.05	30.95	100	151	P	H
	*	5240	93.09	-	-	85.54	32.45	6.05	30.95	100	151	A	H
		5428.2	56.15	-17.85	74	48.51	32.41	6.18	30.95	100	151	P	H
		5386.8	43.6	-10.4	54	35.98	32.42	6.15	30.95	100	151	A	H
		5149.24	54.43	-19.57	74	46.92	32.47	5.99	30.95	106	45	P	V
		5132.08	43.42	-10.58	54	35.92	32.47	5.98	30.95	106	45	A	V
	*	5240	103.11	-	-	95.56	32.45	6.05	30.95	106	45	P	V
	*	5240	92.11	-	-	84.56	32.45	6.05	30.95	106	45	A	V
		5366.76	54.62	-19.38	74	47	32.43	6.14	30.95	106	45	P	V
		5444.6	43.6	-10.4	54	35.95	32.41	6.19	30.95	106	45	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 48 5240MHz		10480	46.87	-27.13	74	53.99	39.96	9.31	56.93	100	0	P	H
		15720	46.44	-27.56	74	53.11	38.84	11.56	57.81	100	0	P	H
													H
													H
		10480	47.51	-26.49	74	54.63	39.96	9.31	56.93	100	0	P	V
		15720	49.65	-24.35	74	56.32	38.84	11.56	57.81	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz	*	5320	105.17	-	-	97.58	32.44	6.1	30.95	105	151	P	H
	*	5320	94.11	-	-	86.52	32.44	6.1	30.95	105	151	A	H
		5361.6	57.74	-16.26	74	50.12	32.43	6.14	30.95	105	151	P	H
		5353.28	43.86	-10.14	54	36.26	32.43	6.12	30.95	105	151	A	H
													H
													H
	*	5320	103.87	-	-	96.28	32.44	6.1	30.95	100	55	P	V
	*	5320	92.62	-	-	85.03	32.44	6.1	30.95	100	55	A	V
		5364	56.82	-17.18	74	49.2	32.43	6.14	30.95	100	55	P	V
		5350.24	43.79	-10.21	54	36.19	32.43	6.12	30.95	100	55	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz		10640	47.63	-26.37	74	54.53	40.06	9.38	56.87	100	0	P	H
		15960	45.8	-28.2	74	52.58	38.12	11.66	57.28	100	0	P	H
													H
													H
		10640	47.13	-26.87	74	54.03	40.06	9.38	56.87	100	0	P	V
		15960	49.2	-24.8	74	55.98	38.12	11.66	57.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 140 5700MHz	*	5700	107.65	-	-	99.34	32.96	6.36	31.01	100	278	P	H
	*	5700	96.41	-	-	88.1	32.96	6.36	31.01	100	278	A	H
		5725.32	61.36	-12.64	74	52.98	33.03	6.37	31.02	100	278	P	H
		5725	47.13	-6.87	54	38.75	33.03	6.37	31.02	100	278	A	H
													H
													H
	*	5700	104.49	-	-	96.18	32.96	6.36	31.01	103	56	P	V
	*	5700	93.36	-	-	85.05	32.96	6.36	31.01	103	56	A	V
		5730.04	59.09	-14.91	74	50.7	33.04	6.37	31.02	103	56	P	V
		5725	45.65	-8.35	54	37.27	33.03	6.37	31.02	103	56	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 140 5700MHz		11400	48.98	-25.02	74	55.93	40.2	9.77	57.44	100	0	P	H
		17100	49.96	-24.04	74	52	41.62	11.99	56.3	100	0	P	H
													H
													H
		11400	47.22	-26.78	74	54.17	40.2	9.77	57.44	100	0	P	V
		17100	57.83	-16.17	74	59.87	41.62	11.99	56.3	112	325	P	V
		17100	42.52	-11.48	54	44.56	41.62	11.99	56.3	112	325	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5642.4	50.62	-17.58	68.2	42.47	32.8	6.35	31	100	283	P	H
		5697.6	58.99	-44.44	103.43	50.69	32.95	6.36	31.01	100	283	P	H
		5720	60.98	-49.82	110.8	52.61	33.02	6.37	31.02	100	283	P	H
		5724.8	69.5	-52.24	121.74	61.12	33.03	6.37	31.02	100	283	P	H
	*	5745	107.14	-	-	98.71	33.09	6.37	31.03	100	283	P	H
	*	5745	95.93	-	-	87.5	33.09	6.37	31.03	100	283	A	H
													H
													H
		5604.8	51.04	-17.16	68.2	43	32.69	6.34	30.99	104	56	P	V
		5691	56.45	-42.11	98.56	48.17	32.93	6.36	31.01	104	56	P	V
		5717.6	59.78	-50.35	110.13	51.42	33.01	6.37	31.02	104	56	P	V
		5724.2	67.29	-53.09	120.38	58.91	33.03	6.37	31.02	104	56	P	V
	*	5746	103.88	-	-	95.45	33.09	6.37	31.03	104	56	P	V
													V
													V
													V



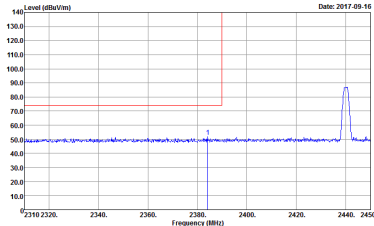
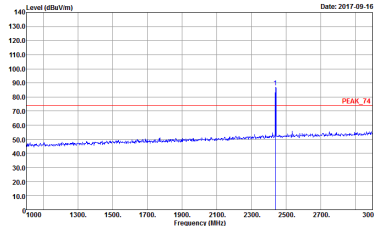
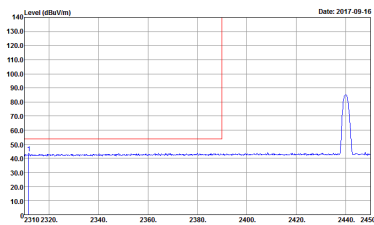
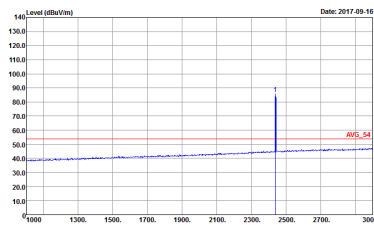
Band 4 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11488	47.78	-26.22	74	54.82	40.2	9.82	57.57	100	0	P	H
		17230	50.46	-17.74	68.2	52.65	41.91	12.09	56.83	100	0	P	H
													H
													H
		11488	47.14	-26.86	74	54.18	40.2	9.82	57.57	100	0	P	V
		17230	52.54	-15.66	68.2	54.73	41.91	12.09	56.83	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

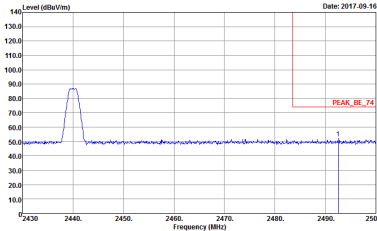
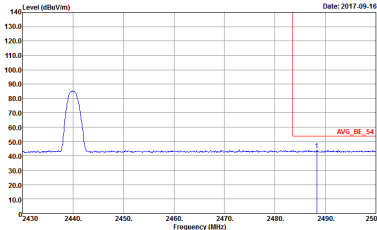


2.4GHz 2400~2483.5MHz

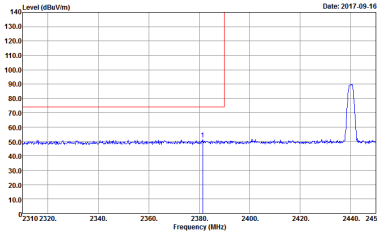
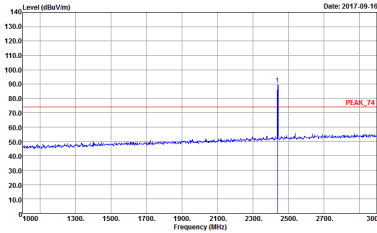
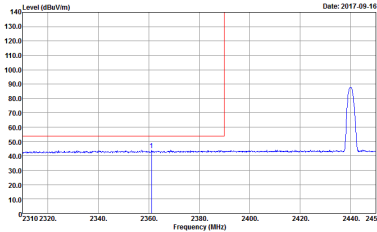
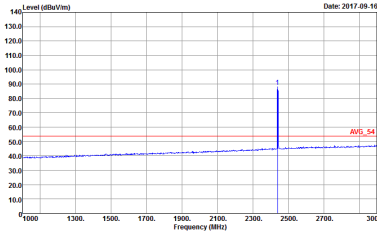
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-14V Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 3	 Site : 03CH13-14V Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 3
Avg.	 Site : 03CH13-14V Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 3	 Site : 03CH13-14V Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 3

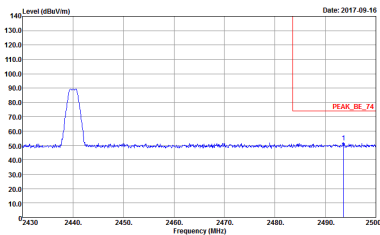
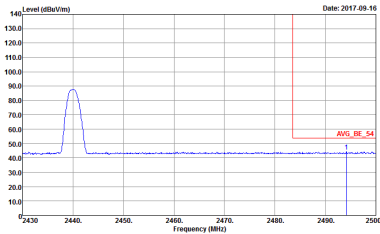


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3

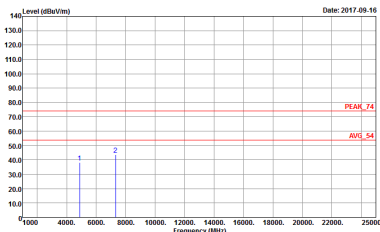
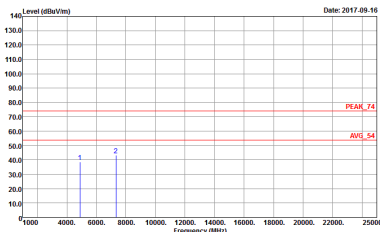


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH19 2440MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	Left blank



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH19 2440MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 3	 Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 760708-01 Mode : 3

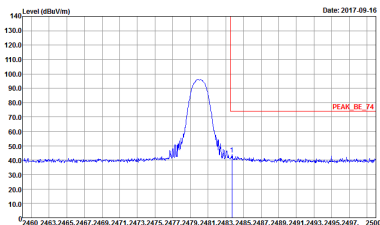
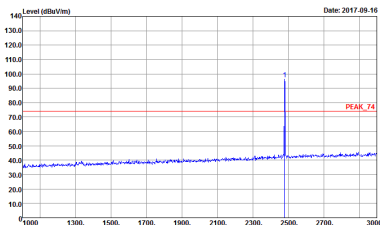


2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

T	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 1	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 1

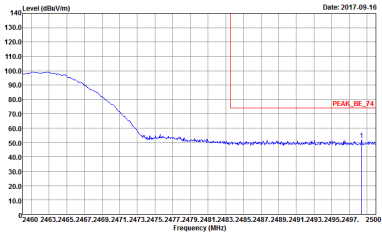
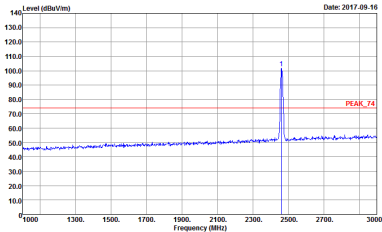
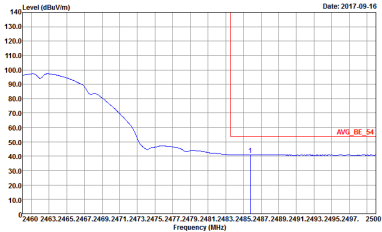
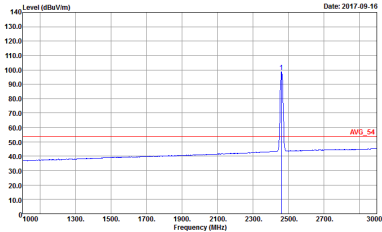


BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 1	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 1

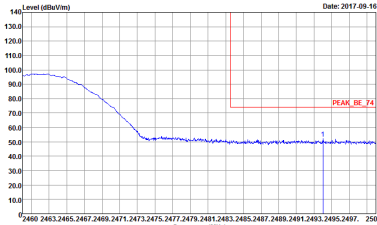
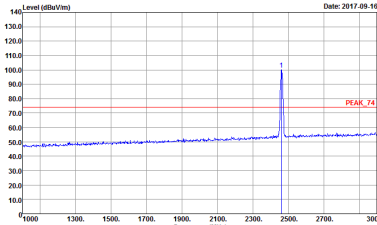
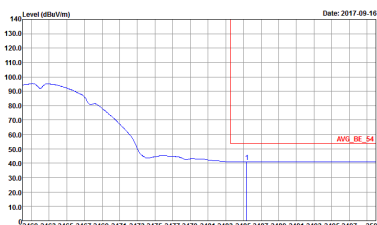
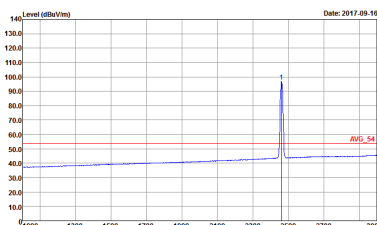


2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5

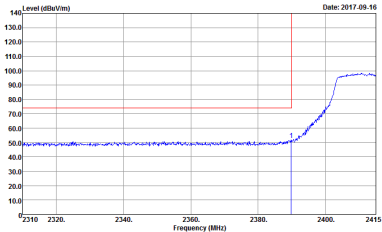
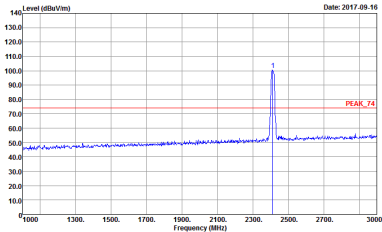
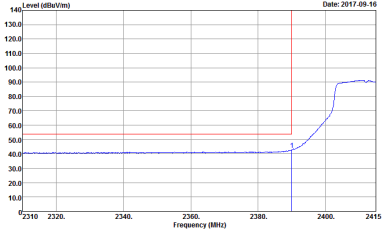
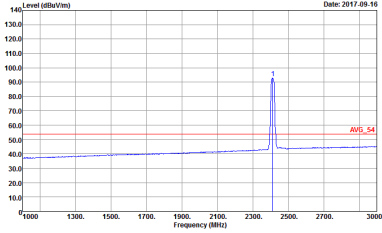


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 5 Power : 15.5



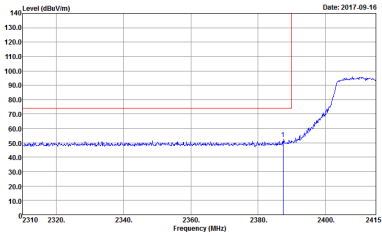
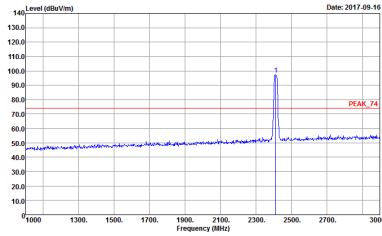
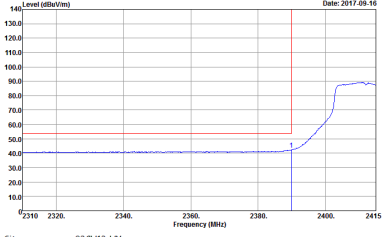
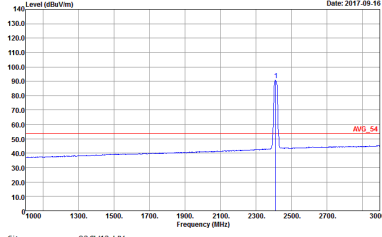
2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5



FCC Test Report

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL Detector : Peak Project : 760708-01 Mode : 7 Power : 12.5



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 760710-01 Mode : 5	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 760710-01 Mode : 5



2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

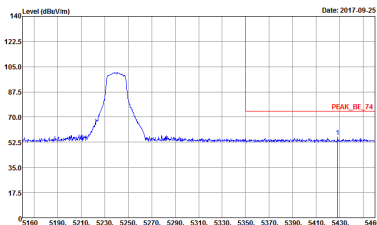
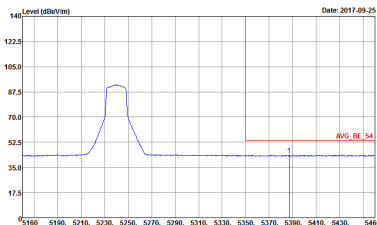
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 HORIZONTAL Detector : Peak Project : 760710-01 Mode : 25	Site : 03CH13-HY Condition : PEAK_74 3m SHF_HORN_584 VERTICAL Detector : Peak Project : 760710-01 Mode : 25



Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK, SE, 54 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 1	Site : 03CH12-HY Condition : PEAK, SE, 54 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 1
Avg.	Site : 03CH12-HY Condition : AVG, SE, 54 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 1	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_RE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 760708-01 Mode : 1	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_RE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 760708-01 Mode : 1	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_RE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : : 760708-01 : 1	Site : 03CH12-HY Condition : PEAK_RE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : : 760708-01 : 1
Avg.	Site : 03CH12-HY Condition : AVG_RE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : : 760708-01 : 1	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank



Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

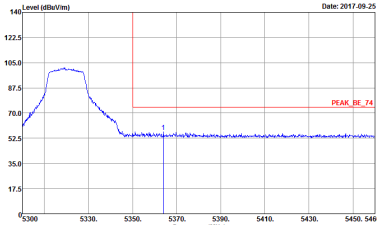
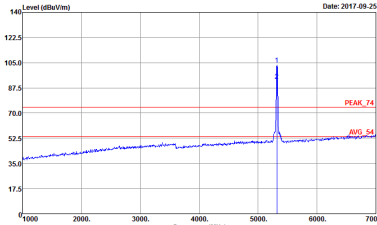
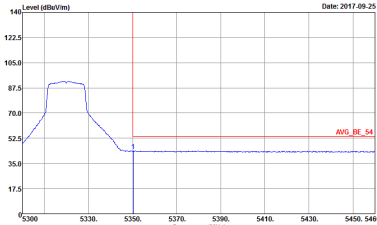
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 1	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 760708-01 Mode : 1



Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 2	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 2
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 2	Left blank



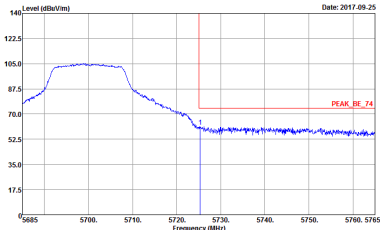
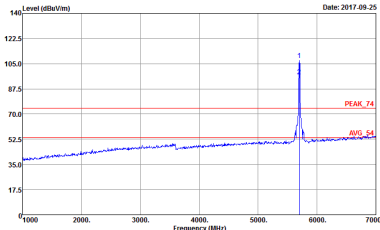
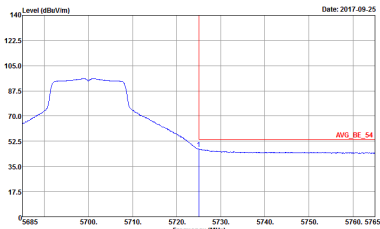
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_RE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 760708-01 Mode : 2	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 760708-01 Mode : 2
Avg.	 Site : 03CH12-HY Condition : AVG_RE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 760708-01 Mode : 2	Left blank



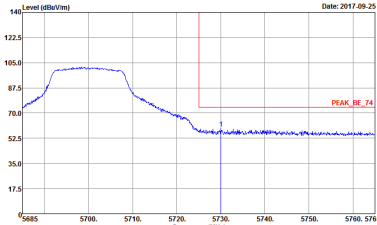
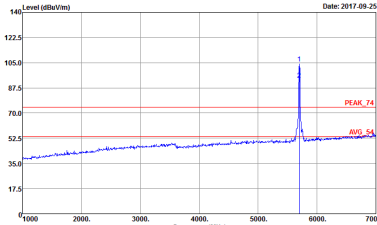
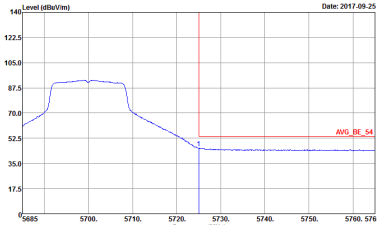
Band 2 - 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 2	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 760708-01 Mode : 2

Band 3 - 5470~5725MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN 9120D 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	 Site : 03CH12-HY Condition : PEAK_74 3m HORN 9120D 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3
Avg.	 Site : 03CH12-HY Condition : AVG_54 3m HORN 9120D 1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 760708-01 Mode : 3	Left blank

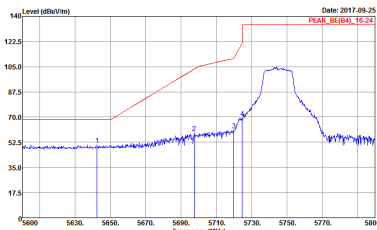
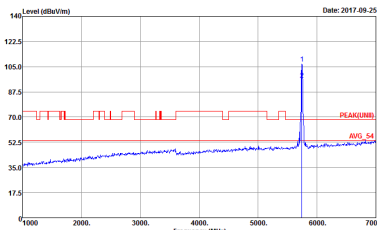


Band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 3	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 760708-01 Mode : 3

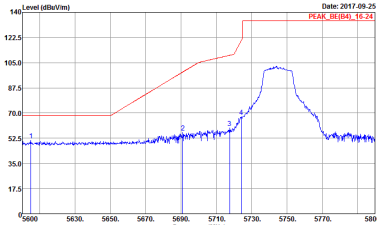
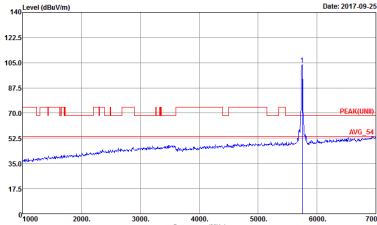


Band 4 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY Condition : PEAK_RE(64)_16.24 3m HORN 91200 13.78 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 5	 Site Condition : 03CH12-HY Condition : PEAK(UNIT)_16.24 3m HORN 91200 13.78 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 5

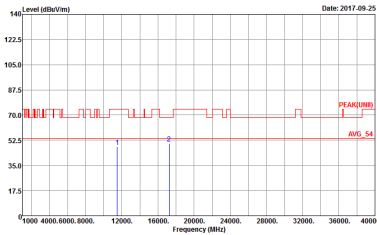
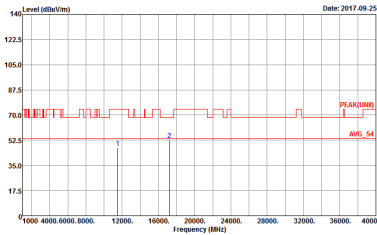


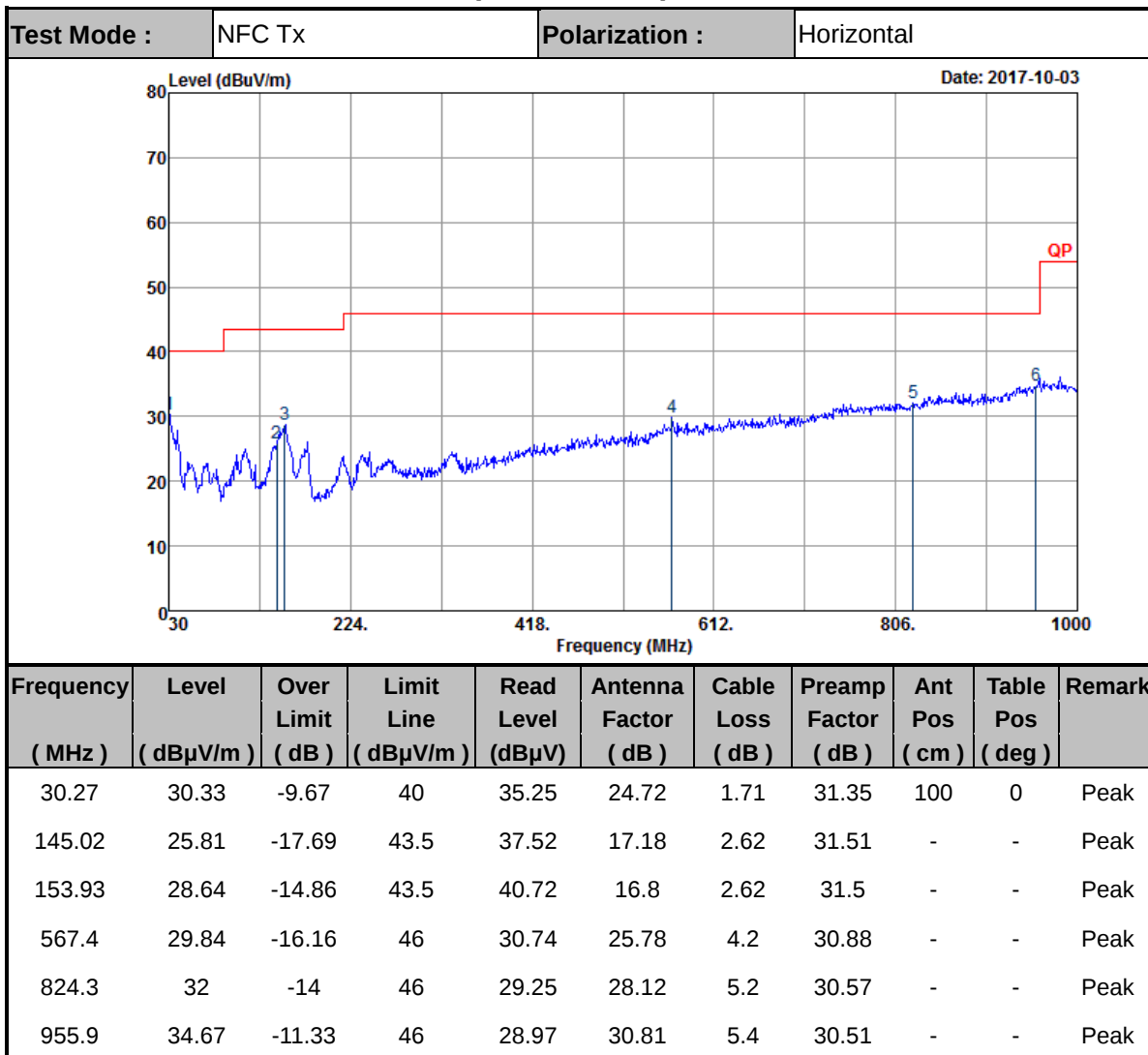
FCC Test Report

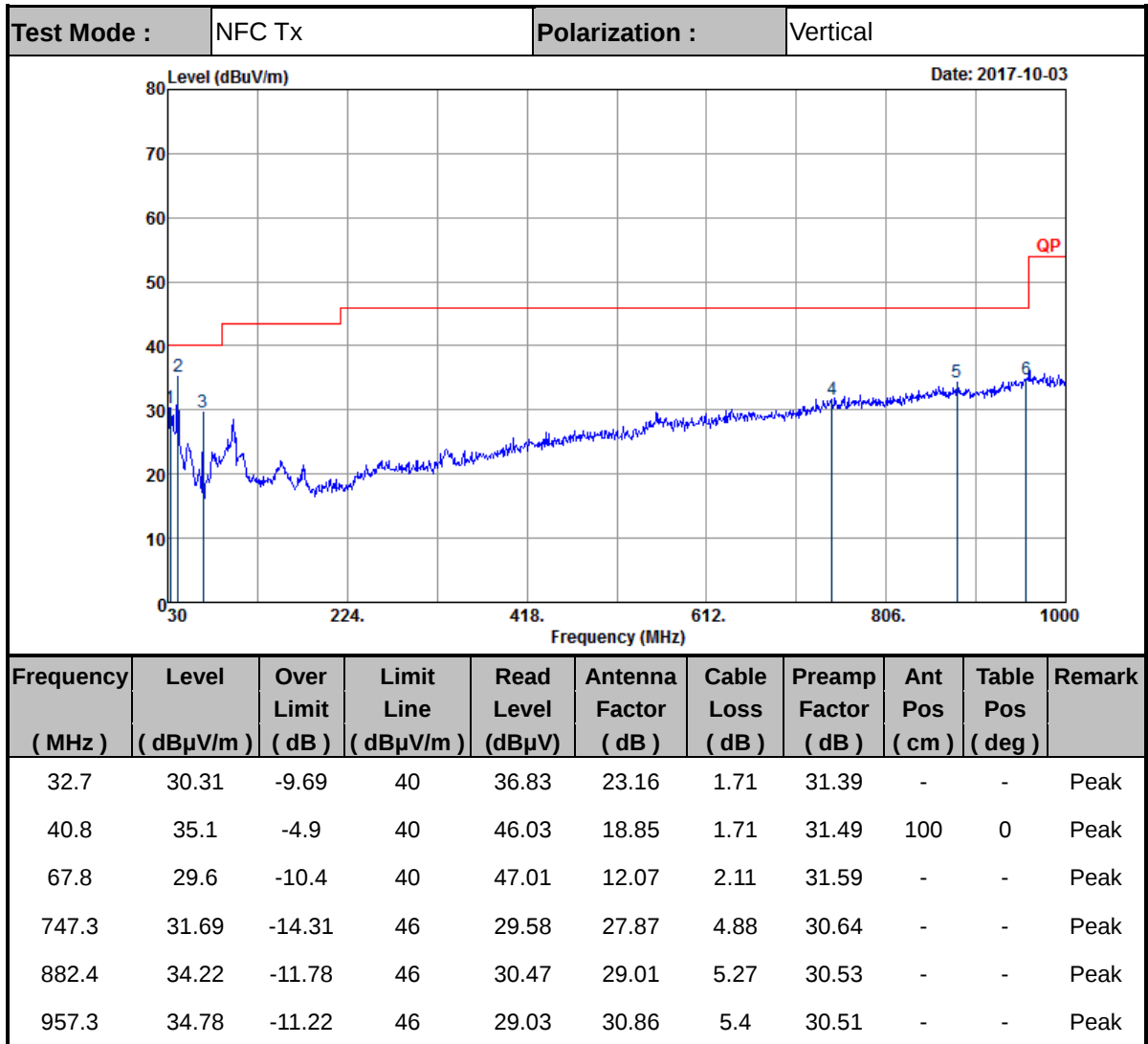
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK_RE(94)_16-24 3m HORN_9120D_1328 VERTICAL REBW:1000.0000Hz VBW:3000.0000Hz SVWT:Auto Detector : Peak Project : 766708-01 Mode : 5	 Site Condition : 03CH12-HY PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL REBW:1000.0000Hz VBW:3000.0000Hz SVWT:Auto Detector : Peak Project : 766708-01 Mode : 5



Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 760708-01 Mode : 15	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 760708-01 Mode : 15

Results of Radiated Emissions (30MHz~1GHz)



Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.

End of this report