



Spot Check Evaluation

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REVISION HISTORY

VERSION	DESCRIPTION	ISSUED DATE
Rev. 01	Initial issue of report	Nov. 13, 2017



1. Introduction Section

The original model (FCC ID: PY7-48140L) and the variant model (FCC ID: PY7-67442A) 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 PY7-67442A references the test data of PY7-48140L

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: PY7-67442A).



2. Difference Section

The original model (FCC ID: PY7-48140L) and the variant model (FCC ID: PY7-67442A) 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.

Cellular transmitter RF components are different in PY7-67442A, to support capability for different cellular bands.

The product specification is outlined in the following table:

FCC ID			PY7-48140L	PY7-67442A
Wireless Tech	Mode		Frequency (MHz)	
GSM	GSM Voice GPRS (GMSK) EDGE (8PSK)	Multi-Slot Class 33 DTM: Yes	850/1900	850/1900
UMTS	AMR/RCM12.2Kbps HSDPA/HSUPA/DC-HSDPA		B5/B2	B5/B2/B4
LTE (FDD)	QPSK/16QAM/64QAM		B5/B2/B7/B41	B2/B4/B5/B7/B12/B13/ B17/B25/B66
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	PY7-48140L Worst Result	PY7-67442A Worst Result	Difference (dB)
Average Conducted Power (dBm)	802.11b	16.48	16.25	0.23
	802.11g	13.42	13.38	0.04
	11n HT20	12.91	12.84	0.07
	11ac VHT20	12.93	12.85	0.08
	BT (1Mbps)	9.72	9.29	0.43
	BT (2Mbps)	6.31	6.07	0.24
	BT (3Mbps)	6.27	6.08	0.19
	BT-LE(1Mbps)	-0.01	-0.44	0.43
	BT-LE(2Mbps)	-0.03	-0.16	0.13
	11a, 5.2GHz	14.94	14.70	0.24
	11n HT20, 5.2GHz	13.85	13.72	0.13
	11n HT40, 5.2GHz	12.89	12.72	0.17
	11ac VHT20, 5.2GHz	13.92	13.73	0.19
	11ac VHT40, 5.2GHz	12.73	12.73	0.25
	11ac VHT80, 5.2GHz	11.56	11.95	0.03
	11a, 5.3GHz	14.75	14.74	0.01
	11n HT20, 5.3GHz	13.89	13.98	-0.09
	11n HT40, 5.3GHz	12.50	12.55	-0.05
	11ac VHT20, 5.3GHz	13.98	13.99	-0.01
	11ac VHT40, 5.3GHz	12.59	12.57	0.02
	11ac VHT80, 5.3GHz	11.53	11.88	0.01
	11a, 5.5GHz	14.94	14.93	0.01
	11n HT20, 5.5GHz	13.85	13.92	-0.07
	11n HT40, 5.5GHz	12.82	12.77	0.05
	11ac VHT20, 5.5GHz	13.94	13.93	0.01
	11ac VHT40, 5.5GHz	12.87	12.78	0.09
	11ac VHT80, 5.5GHz	11.71	11.68	0.00
	11a, 5.8GHz	13.85	13.72	0.13
	11n HT20, 5.8GHz	13.90	13.62	0.28
	11n HT40, 5.8GHz	12.86	12.72	0.24
	11ac VHT20, 5.8GHz	13.99	13.83	0.16
	11ac VHT40, 5.8GHz	12.97	12.73	0.24
	11ac VHT80, 5.8GHz	11.67	11.66	0.01
	S/N of test sample	RQ3005X7GH	CQ300001SC CQ300000A4 CQ30000180	
	Test date	2017/09/25~2017/10/26	2017/09/27~2017/10/31	
Peak Radiated Spurious Emission (Band Edge) (dBuV/m)	802.11b	54.93	53.69	1.24
	802.11ac-VHT20	58.80	58.21	0.59
	BT (1Mbps)	47.92	50.79	-2.87
	BT-LE(1Mbps)	52.06	51.65	0.41
	802.11ac, 5.2GHz	57.73	55.56	2.17
	802.11ac, 5.3GHz	56.48	57.75	-1.27
	802.11ac, 5.5GHz	56.91	54.27	2.64
	802.11ac, 5.8GHz	51.95	49.31	2.64
	S/N of test sample	CQ300000QK CQ300000QJ	CQ300001SC CQ3000016P	
	Test date	2017/09/27~2017/10/15	2017/10/7~2017/10/20	

Test Item	Mode	PY7-48140L Worst Result	PY7-67442A Worst Result	Difference (dB)
Average Radiated Spurious Emission (Band Edge) (dBuV/m)	802.11b	47.65	44.91	2.74
	802.11ac-VHT20	49.07	48.99	0.08
	BT (1Mbps)	23.13	26.00	-2.87
	BT-LE(1Mbps)	44.14	43.97	0.17
	802.11ac, 5.2GHz	50.64	48.82	1.82
	802.11ac, 5.3GHz	50.71	50.76	-0.05
	802.11ac, 5.5GHz	49.81	47.73	2.08
	S/N of test sample	CQ300000QK CQ300000QJ	CQ300001SC CQ3000016P	
	Test date	2017/09/27~2017/10/15	2017/10/7~2017/10/20	
Peak Radiated Spurious Emission (Harmonic) (dBuV/m)	802.11b	45.09	44.63	0.46
	802.11ac-VHT20	44.59	43.59	1.00
	BT (1Mbps)	42.92	43.22	-0.30
	BT-LE(1Mbps)	43.56	43.63	-0.07
	802.11ac, 5.2GHz	46.72	47.51	-0.79
	802.11ac, 5.3GHz	45.48	47.32	-1.84
	802.11ac, 5.5GHz	44.28	45.90	-1.62
	802.11ac, 5.8GHz	50.60	51.15	-0.55
	S/N of test sample	CQ300000QK CQ300000QJ	CQ300001SC CQ3000016P	
	Test date	2017/09/27~2017/10/15	2017/10/7~2017/10/20	
NFC (dBuV/m)	RSE (30MHz to1GHz)	33.73	33.09	
	S/N of test sample	CQ300000QJ	CQ300006DA	
	Test date	2017/10/12	2017/10/20	

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

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	PY7-48140L	Original Grant	FCC RF Test Report	PY7-67442A	Part 15C (FR762713-01B, FR762713-01C)
	DSS	Bluetooth	2400~2483.5	PY7-48140L	Original Grant	FCC RF Test Report	PY7-67442A	Part 15C (FR762713-01A)
	DXX	NFC	13.56	PY7-48140L	Original Grant	FCC RF Test Report	PY7-67442A	Part 15C (FR762713-01D)
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	PY7-48140L	Original Grant	FCC RF Test Report	PY7-67442A	Part 15E (FR762713-01E, FR762713-01F)
		DFS	5470~5725	PY7-48140L	Original Grant	FCC RF Test Report	PY7-67442A	Part 15E (FZ762713-01)

Appendix A. Spot Check Test Result

1.1 Conducted power

<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-48140L Average power (dBm)	FCC ID PY7-67442A Average power (dBm)
2.4GHz WLAN	802.11b	CH 1	2412	1Mbps	17	16.48	16.25
		CH 6	2437			16.21	16.02
		CH 11	2462			16.19	16.00
	802.11g	CH 1	2412	6Mbps	13.5	13.42	13.38
		CH 6	2437			13.28	13.23
		CH 11	2462			13.40	13.38
	802.11n-HT20	CH 1	2412	MCS0	13	12.79	12.73
		CH 6	2437			12.69	12.47
		CH 11	2462			12.91	12.84
	802.11ac-VHT20	CH 1	2412	MCS0	13	12.83	12.74
		CH 6	2437			12.74	12.48
		CH 11	2462			12.93	12.85



<Bluetooth>					
Mode	Channel	Frequency (MHz)	Tune-Up Limit	FCC ID PY7-48140L Average power (dBm)	FCC ID PY7-67442A Average power (dBm)
Bluetooth (1Mbps)	CH 00	2402	10.5	9.72	9.29
	CH 39	2441		8.70	8.24
	CH 78	2480		8.67	7.48
Bluetooth (2Mbps)	CH 00	2402	7	6.31	6.07
	CH 39	2441		5.34	4.87
	CH 78	2480		5.40	4.28
Bluetooth (3Mbps)	CH 00	2402	7	6.27	6.08
	CH 39	2441		5.36	4.88
	CH 78	2480		5.42	4.29
BLE (GFSK) (1Mbps)	CH 00	2402	0	-1.66	-2.55
	CH 19	2440		-1.69	-2.59
	CH 39	2480		-0.01	-0.44
BLE (GFSK) (2Mbps)	CH 00	2402	0	-1.70	-1.46
	CH 19	2440		-1.72	-1.64
	CH 39	2480		-0.03	-0.16

**<5GHz WLAN>**

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-48140L Average power (dBm)	FCC ID PY7-67442A Average power (dBm)
	802.11a	CH 36	5180	6Mbps	15	14.94	14.70
		CH 44	5220			14.88	14.68
		CH 48	5240			14.84	14.67
	802.11n-HT20	CH 36	5180	MCS0	14	13.85	13.72
		CH 44	5220			13.65	13.70
		CH 48	5240			13.67	13.65
	802.11n-HT40	CH 38	5190	MCS0	13	12.89	12.72
		CH 46	5230			12.63	12.69
	802.11ac-VHT20	CH 36	5180	MCS0	14	13.92	13.73
		CH 44	5220			13.74	13.71
		CH 48	5240			13.71	13.66
5.3GHz WLAN	802.11ac-VHT40	CH 38	5190	MCS0	13	12.98	12.73
		CH 46	5230			12.71	12.70
	802.11ac-VHT80	CH 42	5210	MCS0	12	11.98	11.95
	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-48140L Average power (dBm)	FCC ID PY7-67442A Average power (dBm)
	802.11a	CH 52	5260	6Mbps	15	14.70	14.65
		CH 60	5300			14.67	14.66
		CH 64	5320			14.75	14.74
	802.11n-HT20	CH 52	5260	MCS0	14	13.86	13.95
		CH 60	5300			13.81	13.83
		CH 64	5320			13.89	13.98
	802.11n-HT40	CH 54	5270	MCS0	13	12.50	12.52
		CH 62	5310			12.50	12.55
	802.11ac-VHT20	CH 52	5260	MCS0	14	13.93	13.96
		CH 60	5300			13.90	13.84
		CH 64	5320			13.98	13.99
	802.11ac-VHT40	CH 54	5270	MCS0	13	12.56	12.53
		CH 62	5310			12.59	12.57
	802.11ac-VHT80	CH58	5290	MCS0	12	11.89	11.88

	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-48140L Average power (dBm)	FCC ID PY7-67442A Average power (dBm)
5.5GHz WLAN	802.11a	CH 100	5500	6Mbps	15	14.94	14.73
		CH 116	5580			14.81	14.61
		CH 140	5700		14	13.86	13.93
		CH144	5720			13.78	13.73
	802.11n-HT20	CH 100	5500	MCS0	14	13.85	13.92
		CH 116	5580			13.70	13.60
		CH 140	5700			13.77	13.58
		CH144	5720			13.76	13.56
	802.11n-HT40	CH 102	5510	MCS0	13	12.82	12.77
		CH 126	5630			12.79	12.66
		CH 134	5670			12.71	12.64
		CH142	5710			12.66	12.57
	802.11ac-VHT20	CH 100	5500	MCS0	14	13.94	13.93
		CH 116	5580			13.76	13.61
		CH 140	5700			13.87	13.59
		CH144	5720			13.83	13.57
	802.11ac-VHT40	CH 102	5510	MCS0	13	12.87	12.78
		CH 126	5630			12.80	12.67
		CH 134	5670			12.74	12.65
		CH142	5710			12.75	12.58
	802.11ac-VHT80	CH106	5530	MCS0	12	11.68	11.58
		CH122	5610			11.70	11.68
		CH138	5690			11.71	11.56

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Data Rate	Tune-Up Limit	FCC ID PY7-48140L Average power (dBm)	FCC ID PY7-67442A Average power (dBm)
	802.11a	CH 149	5745	MCS0	14	13.85	13.72
		CH 157	5785			13.83	13.69
		CH 165	5825			13.58	13.67
	802.11n-HT20	CH 149	5745	MCS0	14	13.90	12.80
		CH 157	5785			13.82	13.62
		CH 165	5825			13.80	13.60
	802.11n-HT40	CH 151	5755	MCS0	13	12.87	12.72
		CH 159	5795			12.96	12.70
	802.11ac-VHT20	CH 149	5745	MCS0	14	13.99	13.83
		CH 157	5785			13.87	13.65
		CH 165	5825			13.87	13.61
	802.11ac-VHT40	CH 151	5755	MCS0	13	12.94	12.73
		CH 159	5795			12.97	12.71
	802.11ac-VHT80	CH155	5775	MCS0	12	11.67	11.66

1.2 Radiated Spurious Emission

2.4GHz BT/WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg.	FCC ID PY7-48140L						FCC ID PY7-67442A					
				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(1Mbps)	CH 78	2480	P	2483.56	47.92	74	7440	42.92	74	2483.56	50.79	74	7440	43.22	74
			A	2483.56	23.13	54	-	-	-	2483.56	26	54	-	-	-
BLE(1Mbps)	CH 39	24480	P	2499.32	52.06	74	7440	43.56	74	2492.48	51.65	74	7440	43.63	74
			A	2489.4	44.14	54	-	-	-	2488.84	43.97	54	-	-	-
802.11b	CH 11	2462	P	2483.56	54.93	74	7386	45.09	74	2484.8	53.69	74	7386	44.63	74
			A	2485.92	47.65	54	-	-	-	2483.52	44.91	54	-	-	-
802.11ac VHT20	CH 11	2462	P	2483.56	58.8	74	7386	44.59	74	2483.68	58.21	74	7386	43.59	74
			A	2483.56	49.07	54	-	-	-	2483.6	48.99	54	-	-	-

5.2GHz WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg.	FCC ID PY7-48140L						FCC ID PY7-67442A					
				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)
802.11ac VHT80	CH 42	5210	P	5145.34	57.73	74	10420	46.72	74	5142.48	55.56	74	15630	47.51	74
			A	5147.94	50.64	54	-	-	-	5150	48.19	54	-	-	-


5.3GHz WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg	FCC ID PY7-48140L						FCC ID PY7-67442A					
				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)
802.11ac VHT40	CH 62	5310	P	5352	56.48	74	10620	45.48	74	5351.04	57.75	74	10620	47.32	74
			A	5350.8	50.71	54	-	-	-	5350.32	50.76	54	-	-	-

5.5GHz WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg	FCC ID PY7-48140L						FCC ID PY7-67442A					
				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)
802.11ac VHT80	CH 106	5530	P	5456.08	56.91	74	16590	44.28	68.2	5459.92	54.27	74	16590	45.9	68.2
			A	5458.72	49.81	54	-	-	-	5455.84	47.73	54	-	-	-

5.8GHz WLAN

Mode	Ch	Freq. (MHz)	Peak /Avg	FCC ID PY7-48140L						FCC ID PY7-67442A					
				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)
802.11ac VHT40	CH 151	5755	P	5949	51.95	68.2	17265	50.6	68.2	5940.8	49.31	68.2	17265	51.15	68.2



2.4GHz 2400~2483.5MHz
BT (1M) (Band Edge @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
BT CH 78 2480MHz	*	2480	101.59	-	-	100.49	27.15	4.92	30.97	252	145	P	H
	*	2480	76.8	-	-	-	-	-	-	-	-	A	H
		2483.68	48.65	-25.35	74	47.54	27.15	4.93	30.97	252	145	P	H
		2483.68	23.86	-30.14	54	-	-	-	-	-	-	A	H
													H
													H
	*	2480	102.88	-	-	101.78	27.15	4.92	30.97	236	71	P	V
	*	2480	78.09	-	-	-	-	-	-	-	-	A	V
		2483.56	50.79	-23.21	74	49.68	27.15	4.93	30.97	236	71	P	V
		2483.56	26	-28	54	-	-	-	-	-	-	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BT (1M) (Harmonic @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 78 2480MHz		4960	39.98	-34.02	74	57.2	31.75	7.59	57.05	100	0	P	H
		4960	15.19	-38.81	54	-	-	-	-	-	-	A	H
		7440	42.45	-31.55	74	53.81	36.41	9.21	57.44	100	0	P	H
		7440	17.66	-36.34	54	-	-	-	-	-	-	A	H
		4960	38.63	-35.37	74	55.85	31.75	7.59	57.05	100	0	P	V
		4960	13.84	-40.16	54	-	-	-	-	-	-	A	V
		7440	43.22	-30.78	74	54.58	36.41	9.21	57.44	100	0	P	V
		7440	18.43	-35.57	54	-	-	-	-	-	-	A	V
Remark	- No other spurious found. - All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE 1Mbps (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	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 39 2480MHz	*	2480	90.07	-	-	79.04	27.15	4.92	30.97	116	139	P	H
	*	2480	89.62	-	-	78.59	27.15	4.92	30.97	116	139	A	H
		2496.8	51.18	-22.82	74	40.08	27.2	4.93	30.96	116	139	P	H
		2485.96	43.68	-10.32	54	32.64	27.15	4.93	30.97	116	139	A	H
													H
													H
	*	2480	89.93	-	-	78.9	27.15	4.92	30.97	266	112	P	V
	*	2480	89.48	-	-	78.45	27.15	4.92	30.97	266	112	A	V
		2492.48	51.65	-22.35	74	40.55	27.2	4.93	30.96	266	112	P	V
		2488.84	43.97	-10.03	54	32.87	27.2	4.93	30.96	266	112	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE 1Mbps (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	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 39 2480MHz		4960	38.75	-35.25	74	55.97	31.75	7.59	57.05	100	0	P	H
		7440	43.63	-30.37	74	54.99	36.41	9.21	57.44	100	0	P	H
													H
													H
		4960	38.95	-35.05	74	56.17	31.75	7.59	57.05	100	0	P	V
		7440	43.45	-30.55	74	54.81	36.41	9.21	57.44	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
WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 11 2462MHz	*	2462	102.46	-	-	91.5	27.1	4.9	30.97	123	227	P	H
	*	2462	99.39	-	-	88.43	27.1	4.9	30.97	123	227	A	H
		2484.8	53.69	-20.31	74	42.65	27.15	4.93	30.97	123	227	P	H
		2483.52	44.91	-9.09	54	33.87	27.15	4.93	30.97	123	227	A	H
													H
													H
	*	2462	102.46	-	-	91.5	27.1	4.9	30.97	133	103	P	V
	*	2462	99.34	-	-	88.38	27.1	4.9	30.97	133	103	A	V
		2483.52	52.57	-21.43	74	41.53	27.15	4.93	30.97	133	103	P	V
		2483.52	44.81	-9.19	54	33.77	27.15	4.93	30.97	133	103	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 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 11 2462MHz		4924	40.32	-33.68	74	57.7	31.7	7.52	57.1	100	0	P	H
		7386	44.2	-29.8	74	55.65	36.31	9.18	57.38	100	0	P	H
													H
													H
		4924	42.59	-31.41	74	59.97	31.7	7.52	57.1	100	0	P	V
		7386	44.63	-29.37	74	56.08	36.31	9.18	57.38	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

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preampl	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 11 2462MHz	*	2462	102.06	-	-	91.1	27.1	4.9	30.97	157	186	P	H
	*	2462	93.43	-	-	82.47	27.1	4.9	30.97	157	186	A	H
		2483.52	56.99	-17.01	74	45.95	27.15	4.93	30.97	157	186	P	H
		2483.52	47.32	-6.68	54	36.28	27.15	4.93	30.97	157	186	A	H
													H
													H
	*	2462	103.16	-	-	92.2	27.1	4.9	30.97	164	126	P	V
	*	2462	94.63	-	-	83.67	27.1	4.9	30.97	164	126	A	V
		2483.68	58.21	-15.79	74	47.17	27.15	4.93	30.97	164	126	P	V
		2483.6	48.99	-5.01	54	37.95	27.15	4.93	30.97	164	126	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 11 2462MHz		4924	39.11	-34.89	74	56.49	31.7	7.52	57.1	100	0	P	H
		7386	43.5	-30.5	74	54.95	36.31	9.18	57.38	100	0	P	H
													H
													H
		4924	39.09	-34.91	74	56.47	31.7	7.52	57.1	100	0	P	V
		7386	43.59	-30.41	74	55.04	36.31	9.18	57.38	100	0	P	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 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5142.48	55.56	-18.44	74	47.1	32.44	9.05	33.03	101	120	P	H
		5149.5	48.04	-5.96	54	39.58	32.44	9.05	33.03	101	120	A	H
	*	5210	96.25	-	-	87.64	32.55	9.09	33.03	101	120	P	H
	*	5210	88.55	-	-	79.94	32.55	9.09	33.03	101	120	A	H
		5396.44	48.82	-25.18	74	39.78	32.84	9.22	33.02	101	120	P	H
		5458.6	40.61	-13.39	54	31.42	32.92	9.29	33.02	101	120	A	H
		5139.1	55.5	-18.5	74	47.07	32.41	9.05	33.03	309	84	P	V
		5150	48.19	-5.81	54	39.73	32.44	9.05	33.03	309	84	A	V
	*	5210	96.66	-	-	88.05	32.55	9.09	33.03	309	84	P	V
	*	5210	88.96	-	-	80.35	32.55	9.09	33.03	309	84	A	V
		5411.28	47.89	-26.11	74	38.85	32.84	9.22	33.02	309	84	P	V
		5353.32	40.64	-13.36	54	31.72	32.76	9.19	33.03	309	84	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		10420	46.11	-27.89	74	56.73	38.48	14.67	64.08	100	0	P	H
		15630	46.65	-27.35	74	51.47	38.77	18.03	61.98	100	0	P	H
													H
													H
		10420	47.33	-26.67	74	57.95	38.48	14.67	64.08	100	0	P	V
		15630	47.51	-26.49	74	52.33	38.77	18.03	61.98	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 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preampl	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 62 5310MHz		5146.2	48.12	-25.88	74	39.66	32.44	9.05	33.03	100	119	P	H
		5116.96	40.27	-13.73	54	31.89	32.39	9.03	33.04	100	119	A	H
	*	5310	101.75	-	-	92.91	32.71	9.16	33.03	100	119	P	H
	*	5310	94.72	-	-	85.88	32.71	9.16	33.03	100	119	A	H
		5353.92	56.47	-17.53	74	47.55	32.76	9.19	33.03	100	119	P	H
		5350.32	50.75	-3.25	54	41.83	32.76	9.19	33.03	100	119	P	H
		5048.62	48.48	-25.52	74	40.27	32.28	8.97	33.04	309	84	P	V
		5124.44	40.59	-13.41	54	32.18	32.41	9.03	33.03	309	84	A	V
	*	5310	101.93	-	-	93.09	32.71	9.16	33.03	309	84	P	V
	*	5310	94.43	-	-	85.59	32.71	9.16	33.03	309	84	A	V
		5351.04	57.75	-16.25	74	48.83	32.76	9.19	33.03	309	84	P	V
		5350.32	50.76	-3.24	54	41.84	32.76	9.19	33.03	309	84	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 62 5310MHz		10620	46.77	-27.23	74	57	38.74	14.81	64.08	100	0	P	H
		15930	46.39	-27.61	74	50.63	38.07	18.28	60.86	100	0	P	H
													H
													H
		10620	47.32	-26.68	74	57.55	38.74	14.81	64.08	100	0	P	V
		15930	46.11	-27.89	74	50.35	38.07	18.28	60.86	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 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 106 5530MHz		5459.92	54.27	-19.73	74	45.08	32.92	9.29	33.02	100	119	P	H
		5465.68	55.02	-13.18	68.2	45.8	32.95	9.29	33.02	100	119	P	H
		5455.84	47.73	-6.27	54	38.54	32.92	9.29	33.02	100	119	A	H
	*	5530	98.18	-	-	88.81	33.01	9.41	33.05	100	119	P	H
	*	5530	90.75	-	-	81.38	33.01	9.41	33.05	100	119	A	H
		5728.775	48.48	-19.72	68.2	38.71	33.09	9.81	33.13	100	119	P	H
		5459.44	52.46	-21.54	74	43.27	32.92	9.29	33.02	311	83	P	V
		5469.28	52.75	-15.45	68.2	43.53	32.95	9.29	33.02	311	83	P	V
		5459.44	45.76	-8.24	54	36.57	32.92	9.29	33.02	311	83	A	V
	*	5530	94.2	-	-	84.83	33.01	9.41	33.05	311	83	P	V
	*	5530	87.07	-	-	77.7	33.01	9.41	33.05	311	83	A	V
		5730.98	47.98	-20.22	68.2	38.16	33.09	9.88	33.15	311	83	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 106 5530MHz		11060	47.09	-26.91	74	55.97	39.57	15.13	63.87	100	0	P	H
		16590	45.9	-22.3	68.2	51.06	38.43	18.81	62.7	100	0	P	H
													H
													H
		11060	48.62	-25.38	74	57.5	39.57	15.13	63.87	100	0	P	V
		16590	45.18	-23.02	68.2	50.34	38.43	18.81	62.7	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 - 5725~5850MHz

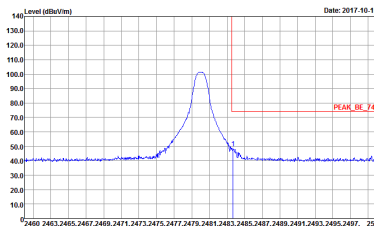
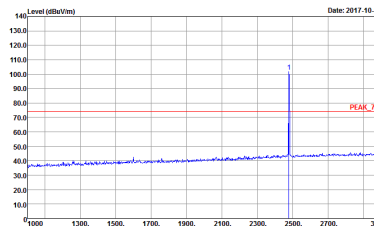
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 151 5755MHz		5642	47.89	-20.31	68.2	38.32	33.06	9.61	33.1	100	117	P	H
		5691.8	51.07	-48.08	99.15	41.36	33.08	9.75	33.12	100	117	P	H
		5719.2	61.76	-48.82	110.58	51.99	33.09	9.81	33.13	100	117	P	H
		5724.2	61.3	-59.08	120.38	51.53	33.09	9.81	33.13	100	117	P	H
	*	5755	102.23	-	-	92.4	33.1	9.88	33.15	100	117	P	H
	*	5755	95.49	-	-	85.66	33.1	9.88	33.15	100	117	A	H
		5852.6	47.18	-69.09	116.27	37.21	33.14	10.02	33.19	100	117	P	H
		5872.8	48.26	-57.56	105.82	38.3	33.15	10.02	33.21	100	117	P	H
		5915.2	49.62	-25.81	75.43	39.66	33.17	10.02	33.23	100	117	P	H
		5936	49.25	-18.95	68.2	39.3	33.17	10.02	33.24	100	117	P	H
		5641.4	47.46	-20.74	68.2	37.89	33.06	9.61	33.1	272	83	P	V
		5698.8	49.63	-54.69	104.32	39.92	33.08	9.75	33.12	272	83	P	V
		5717.8	58.2	-51.98	110.18	48.43	33.09	9.81	33.13	272	83	P	V
		5723	61.81	-55.83	117.64	52.04	33.09	9.81	33.13	272	83	P	V
	*	5755	101.6	-	-	91.77	33.1	9.88	33.15	272	83	P	V
	*	5755	94.38	-	-	84.55	33.1	9.88	33.15	272	83	A	V
		5852.4	47.89	-68.84	116.73	37.92	33.14	10.02	33.19	272	83	P	V
		5867.6	49.31	-57.96	107.27	39.36	33.14	10.02	33.21	272	83	P	V
		5906.2	48.07	-34.01	82.08	38.1	33.17	10.02	33.22	272	83	P	V
		5940.8	49.31	-18.89	68.2	39.35	33.18	10.02	33.24	272	83	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

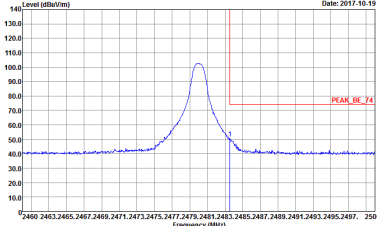
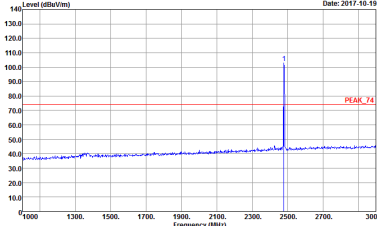

Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 151 5755MHz		11510	48.73	-25.27	74	56	40	15.45	63	100	0	P	H
		17265	50.15	-18.05	68.2	50.2	41.16	19.26	60.83	100	0	P	H
													H
													H
		11510	47.75	-26.25	74	55.02	40	15.45	63	100	0	P	V
		17265	51.15	-17.05	68.2	51.2	41.16	19.26	60.83	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

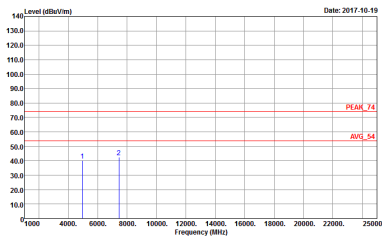
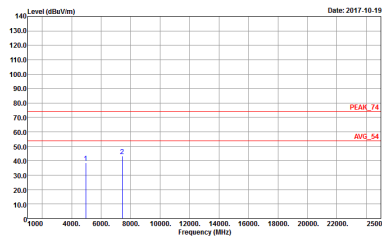
2.4GHz 2400~2483.5MHz
BT (1M) (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK BE 74 3m HORN 9120D 1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 HORIZONTAL



BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BT CH78 2480MHz	
	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK BE 74 3m HORN 9120D 1241 VERTICAL	 Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 VERTICAL

2.4GHz 2400~2483.5MHz
BT (1M) (Harmonic @ 3m)

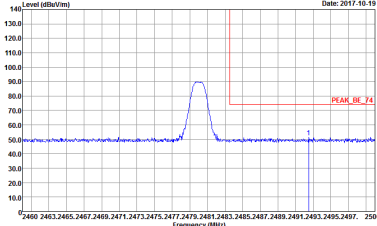
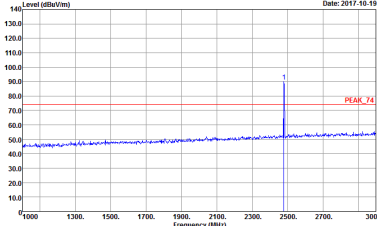
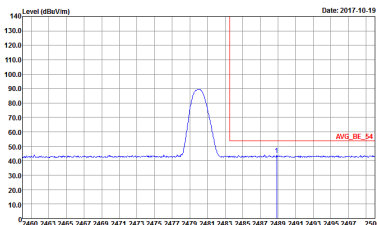
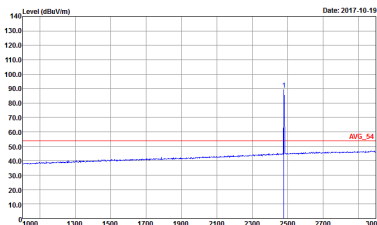
BT	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BT CH78 2480MHz	
	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK 74 3m SHF HORN 584 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK 74 3m SHF HORN 584 VERTICAL



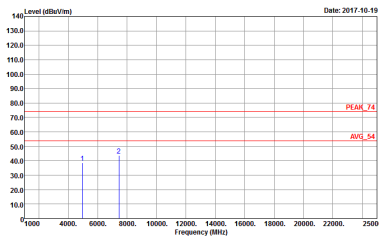
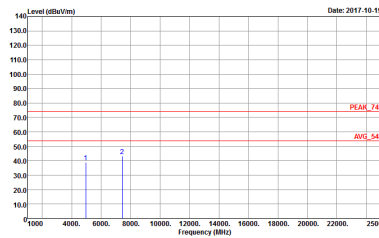
2.4GHz 2400~2483.5MHz
BLE 1Mbps (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK BE 74 3m HORN 9120D 1241 HORIZONTAL	Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 HORIZONTAL
Avg.	Site : 03CH13-HY Condition : AVG BE 54 3m HORN 9120D 1241 HORIZONTAL	Site : 03CH13-HY Condition : AVG 54 3m HORN 9120D 1241 HORIZONTAL

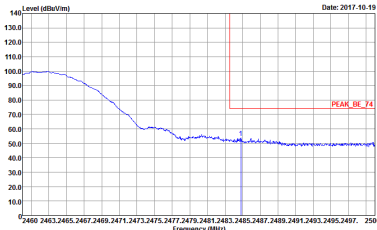
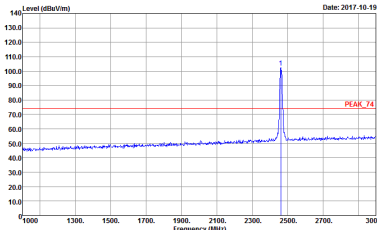
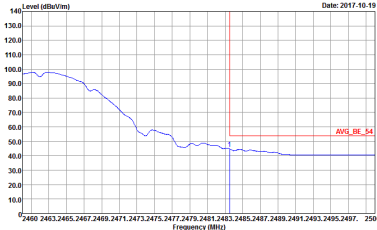
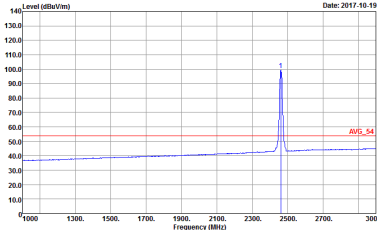


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BLE CH39 2480MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK BE 74 3m HORN 9120D 1241 VERTICAL	 Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 VERTICAL
Avg.	 Site : 03CH13-HY Condition : AVG BE 54 3m HORN 9120D 1241 VERTICAL	 Site : 03CH13-HY Condition : AVG 54 3m HORN 9120D 1241 VERTICAL

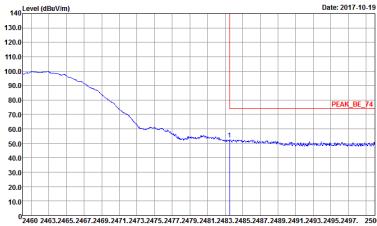
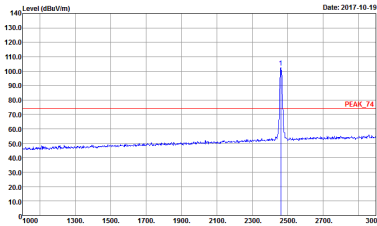
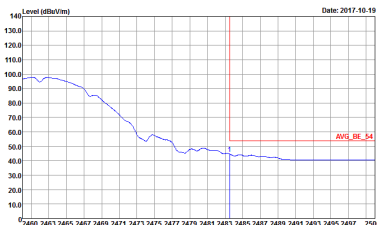
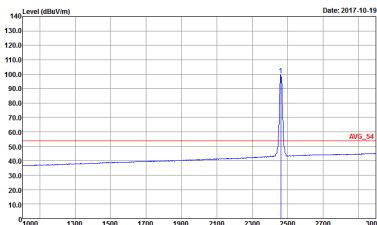
**2.4GHz 2400~2483.5MHz
BLE 1Mbps (Harmonic @ 3m)**

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BLE CH39 2480MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK 74 3m SHF HORN 584 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK 74 3m SHF HORN 584 VERTICAL

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 9120D 1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 HORIZONTAL
Avg.	 Site : 03CH13-HY Condition : AVG BE 54 3m HORN 9120D 1241 HORIZONTAL	 Site : 03CH13-HY Condition : AVG 54 3m HORN 9120D 1241 HORIZONTAL

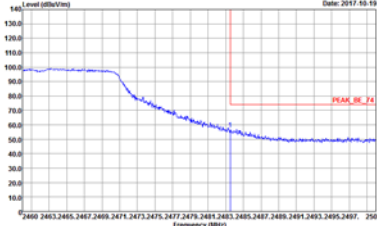
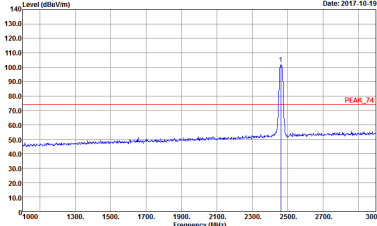
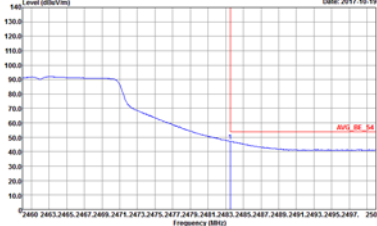
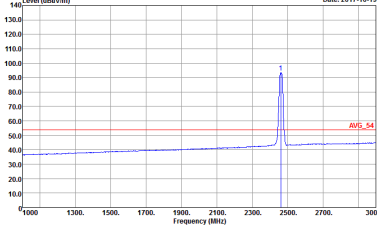


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK BE 74 3m HORN 9120D 1241 VERTICAL	 Site : 03CH13-HY Condition : PEAK 74 3m HORN 9120D 1241 VERTICAL
Avg.	 Site : 03CH13-HY Condition : AVG BE 54 3m HORN 9120D 1241 VERTICAL	 Site : 03CH13-HY Condition : AVG 54 3m HORN 9120D 1241 VERTICAL



2.4GHz 2400~2483.5MHz

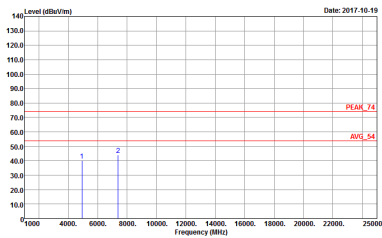
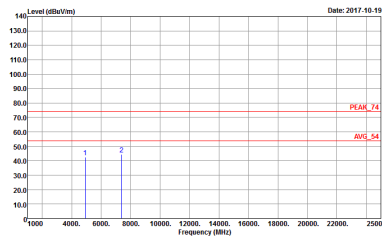
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 HORIZONTAL	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 HORIZONTAL
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 HORIZONTAL	 Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 HORIZONTAL



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ac VH20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1241 VERTICAL	Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1241 VERTICAL
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1241 VERTICAL	Site : 03CH13-HY Condition : AVG_54 3m HORN_9120D_1241 VERTICAL

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	 Site : 03CH13-HY Condition : PEAK 74 3m SHF HORN 584 VERTICAL



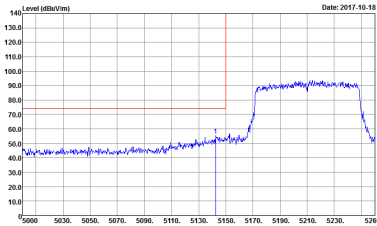
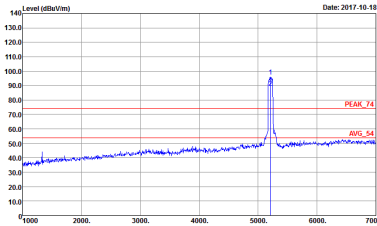
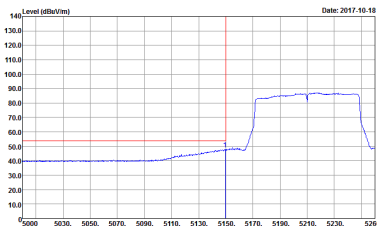
2.4GHz 2400~2483.5MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

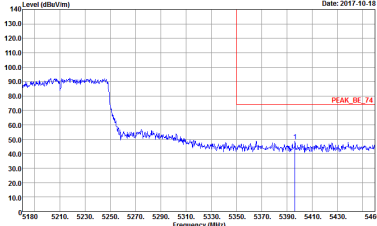
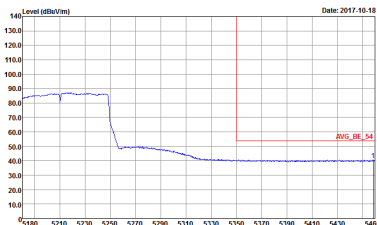
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH13-HY Condition : PEAK 74 3m SHF HORN 584 HORIZONTAL	Site : 03CH13-HY Condition : PEAK 74 3m SHF HORN 584 VERTICAL



Band 1 - 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK BE 74 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-HY Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG BE 54 3m HORN 9120D-HF HORIZONTAL	Left blank

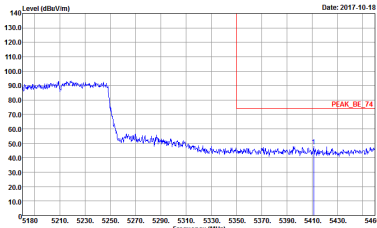
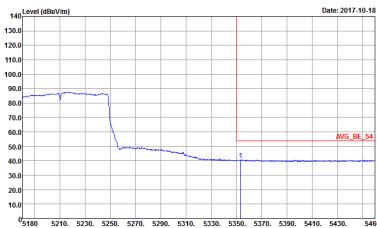


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK BE 74 3m HORN 9120D-HF HORIZONTAL	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG BE 54 3m HORN 9120D-HF HORIZONTAL	Left blank

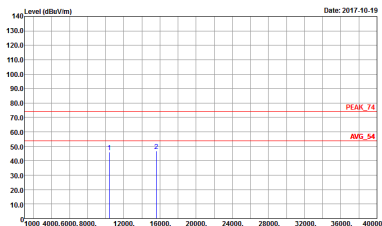
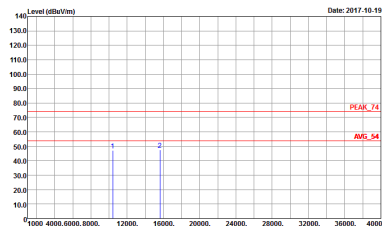


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CHI1-HY Condition : PEAK BE 74 3m HORN 9120D-HF VERTICAL	Site : 03CHI1-HY Condition : PEAK 74 3m HORN 9120D-HF VERTICAL
Avg.	Site : 03CHI1-HY Condition : AVG BE 54 3m HORN 9120D-HF VERTICAL	Left blank



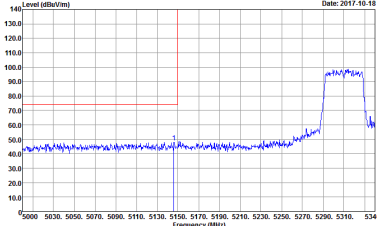
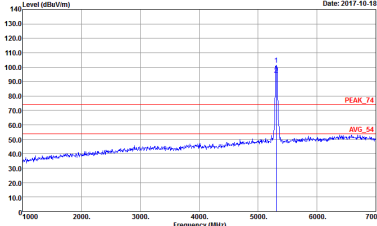
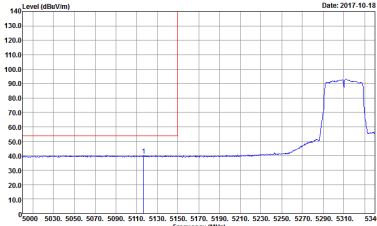
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK BE 74 3m HORN 9120D-HF VERTICAL	Left blank
Avg.	 Site : 03CHI1-HY Condition : AVG BE 54 3m HORN 9120D-HF VERTICAL	Left blank

Band 1 - 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

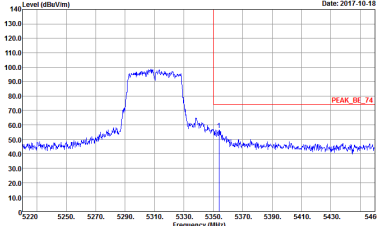
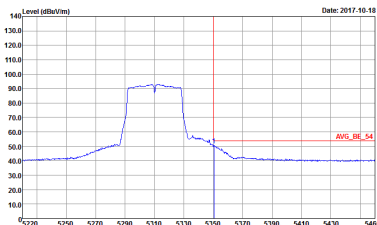
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-HY Condition : PEAK 74 3m HORN 9120D-HF VERTICAL



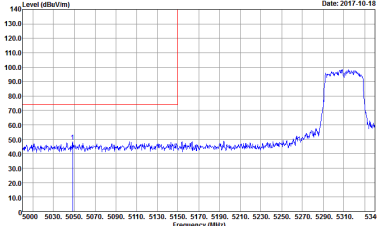
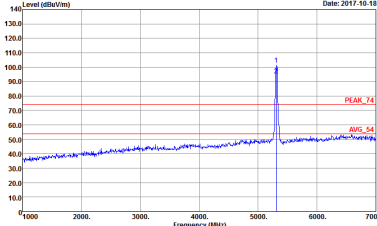
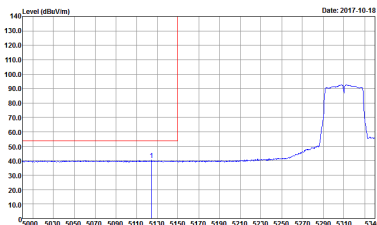
Band 2 - 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK BE 74 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-HY Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG BE 54 3m HORN 9120D-HF HORIZONTAL	Left blank

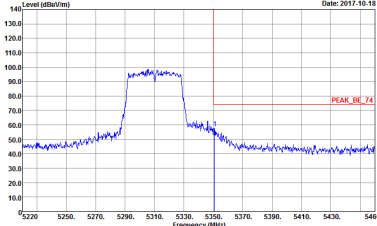
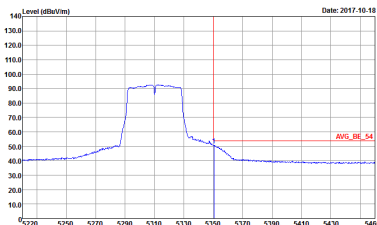


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 HORN 9120D-HF HORIZONTAL	Left blank
Avg.	 Site : 03CHI1-HY Condition : AVG_BE_54 HORN 9120D-HF HORIZONTAL	Left blank

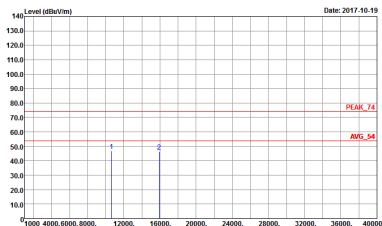
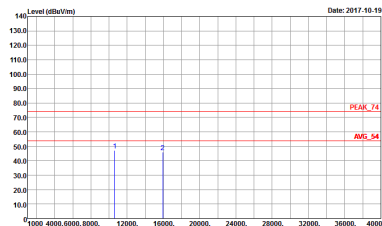


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1	Vertical	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK BE 74 3m HORN 9120D-HF VERTICAL	 Site : 03CHI1-HY Condition : PEAK 74 3m HORN 9120D-HF VERTICAL
Avg.	 Site : 03CHI1-HY Condition : AVG BE 54 3m HORN 9120D-HF VERTICAL	Left blank

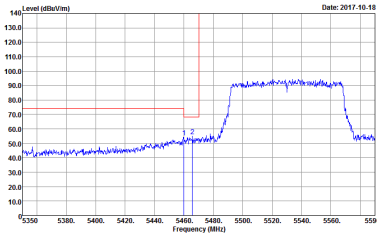
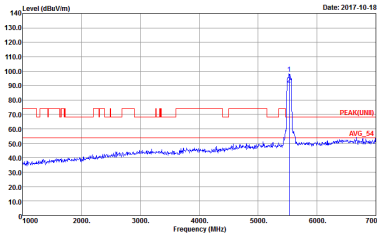
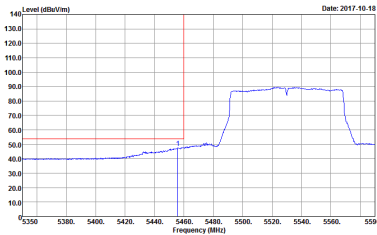


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1	Vertical	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL	Left blank
Avg.	 Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL	Left blank

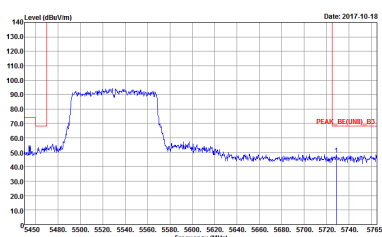
Band 2 - 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH62 5310	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK 74 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-HY Condition : PEAK 74 3m HORN 9120D-HF VERTICAL

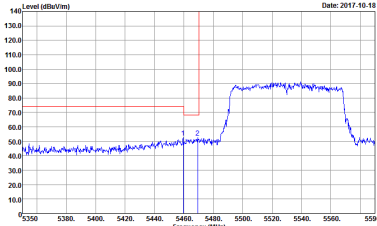
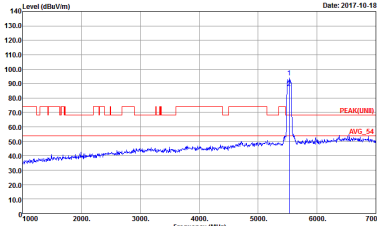
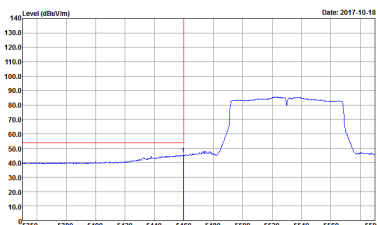
Band 3 - 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK BE(UNII) B3 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL
Avg.	 Site : 03CH11-HY Condition : AVG BE(UNII) B3 3m HORN 9120D-HF HORIZONTAL	Left blank

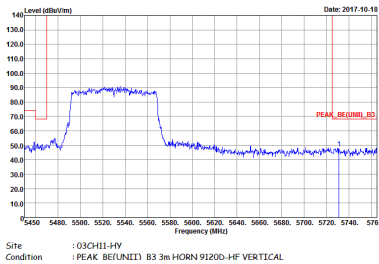


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE(UNIT) B3 3m HORN 9120D-HF HORIZONTAL	Left blank



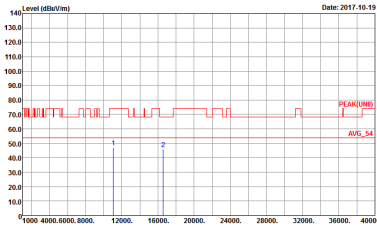
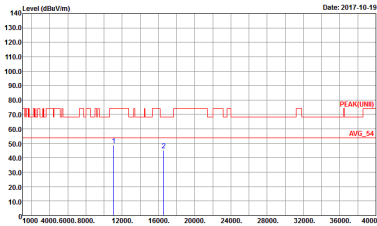
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK BE(UINII) B3 3m HORN 9120D-HF VERTICAL	 Site : 03CHI1-HY Condition : PEAK(UINII) 3m HORN 9120D-HF VERTICAL
Avg.	 Site : 03CHI1-HY Condition : AVG BE(UINII) B3 3m HORN 9120D-HF VERTICAL	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1	Vertical	Fundamental
Peak		Left blank

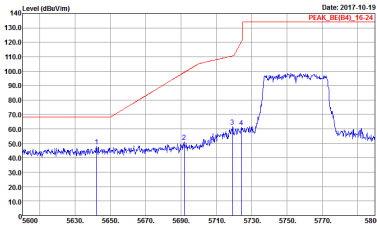
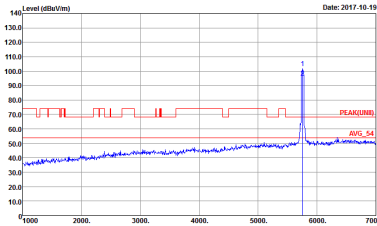
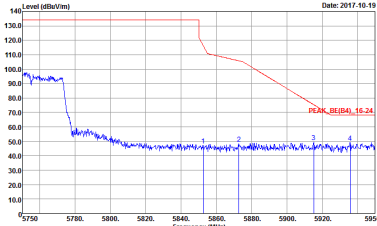


Band 3 - 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

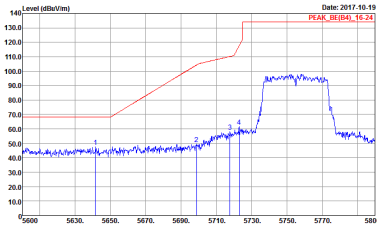
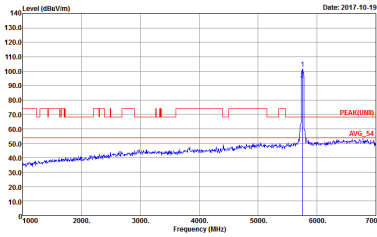
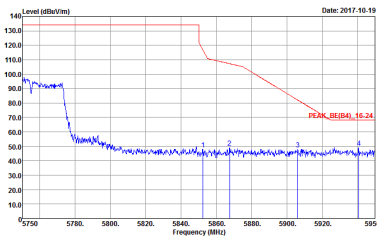
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL



Band 4 - 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

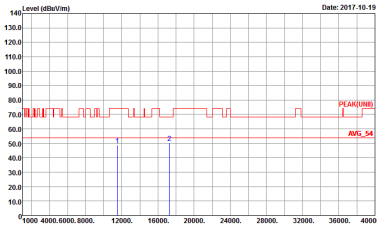
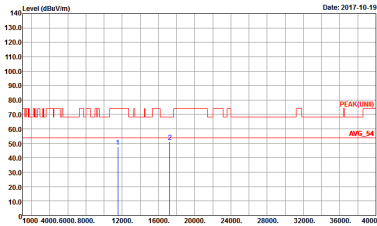
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-I-HY Condition : PEAK BE(B4) 16-24 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-I-HY Condition : PEAK(LNB) 3m HORN 9120D-HF HORIZONTAL
	 Site : 03CH11-I-HY Condition : PEAK BE(B4) 16-24 3m HORN 9120D-HF HORIZONTAL	Left blank

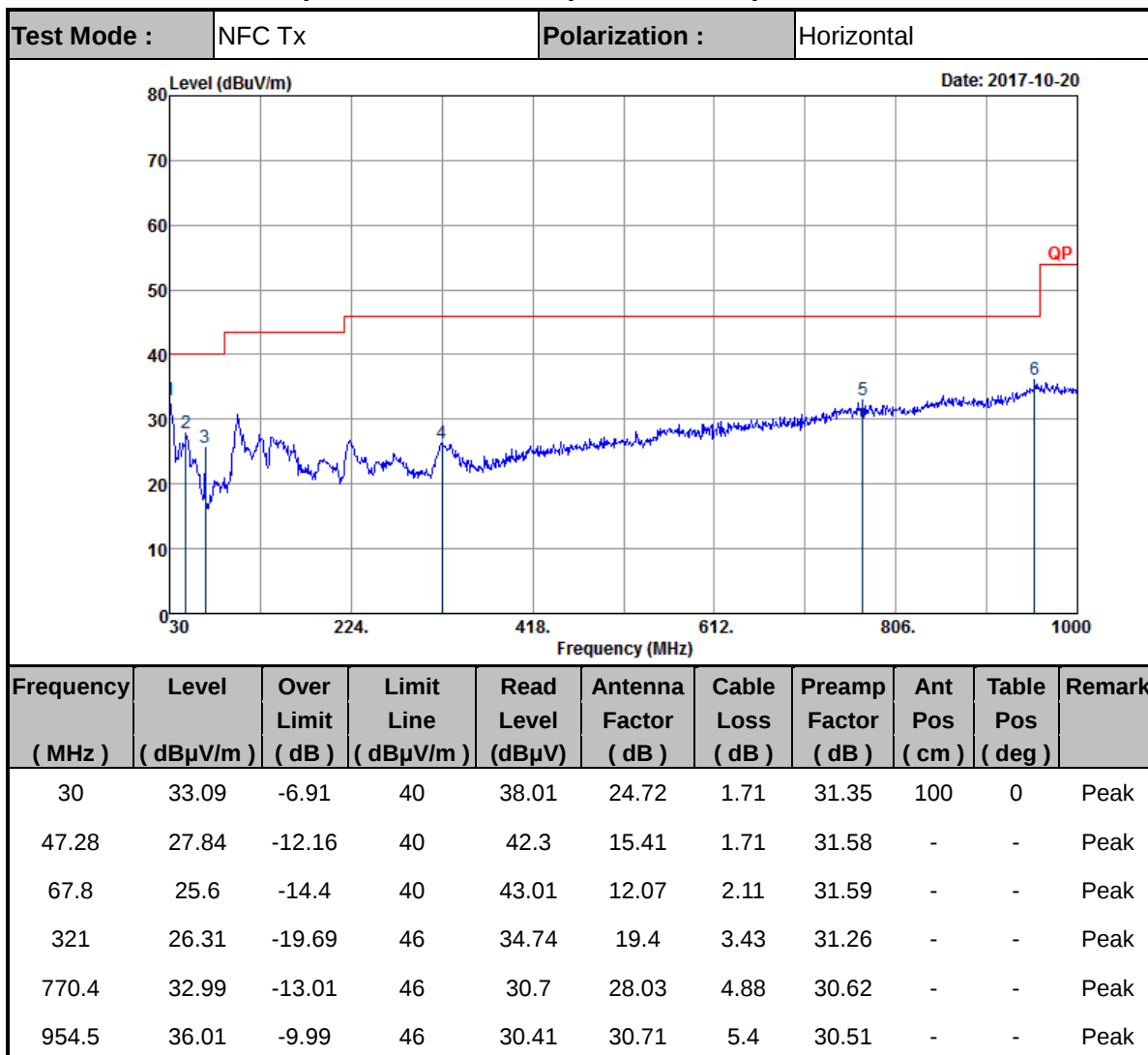


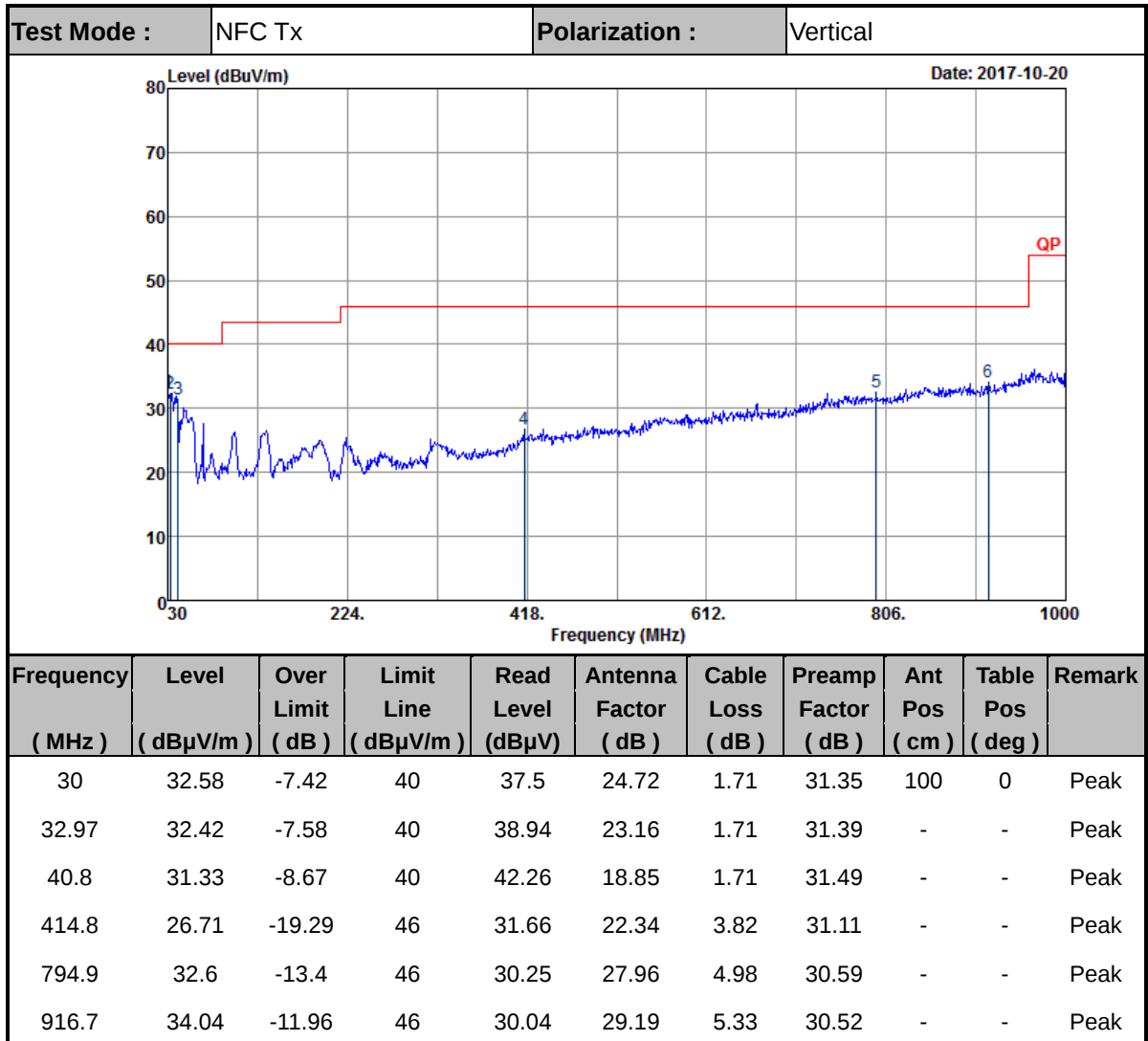
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK BE(B4) 16-24 3m HORN 9120D-HF VERTICAL	 Site : 03CH11-HY Condition : PEAK(U11) 3m HORN 9120D-HF VERTICAL
	 Site : 03CH11-HY Condition : PEAK BE(B4) 16-24 3m HORN 9120D-HF VERTICAL	Left blank



Band 4 - 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF HORIZONTAL	 Site : 03CH11-HY Condition : PEAK(UNIT) 3m HORN 9120D-HF VERTICAL

NFC
Results of Radiated Spurious 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