

Site: AC1	Time: 2019/07/03 - 00:01
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE20 at channel 2457MHz Ant 0 + 1	

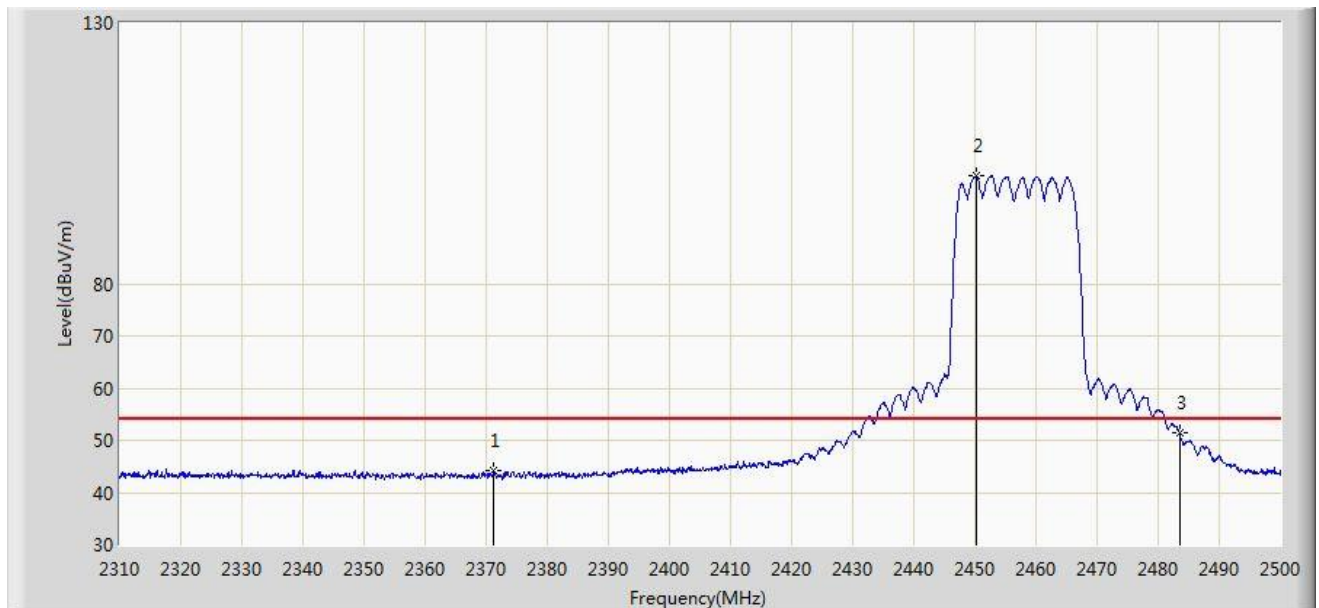


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2362.725	61.560	29.156	-12.440	74.000	32.404	PK
2			2390.000	60.015	27.497	-13.985	74.000	32.518	PK
3		*	2450.030	113.361	80.591	N/A	N/A	32.770	PK
4			2483.500	65.830	32.919	-8.170	74.000	32.911	PK
5			2484.610	65.994	33.078	-8.006	74.000	32.916	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:02
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE20 at channel 2457MHz Ant 0 + 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2371.180	44.324	11.885	-9.676	54.000	32.439	AV
2		*	2450.125	100.693	67.922	N/A	N/A	32.770	AV
3			2483.500	51.403	18.492	-2.597	54.000	32.911	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 21:50
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE20 at channel 2462MHz Ant 0 + 1	

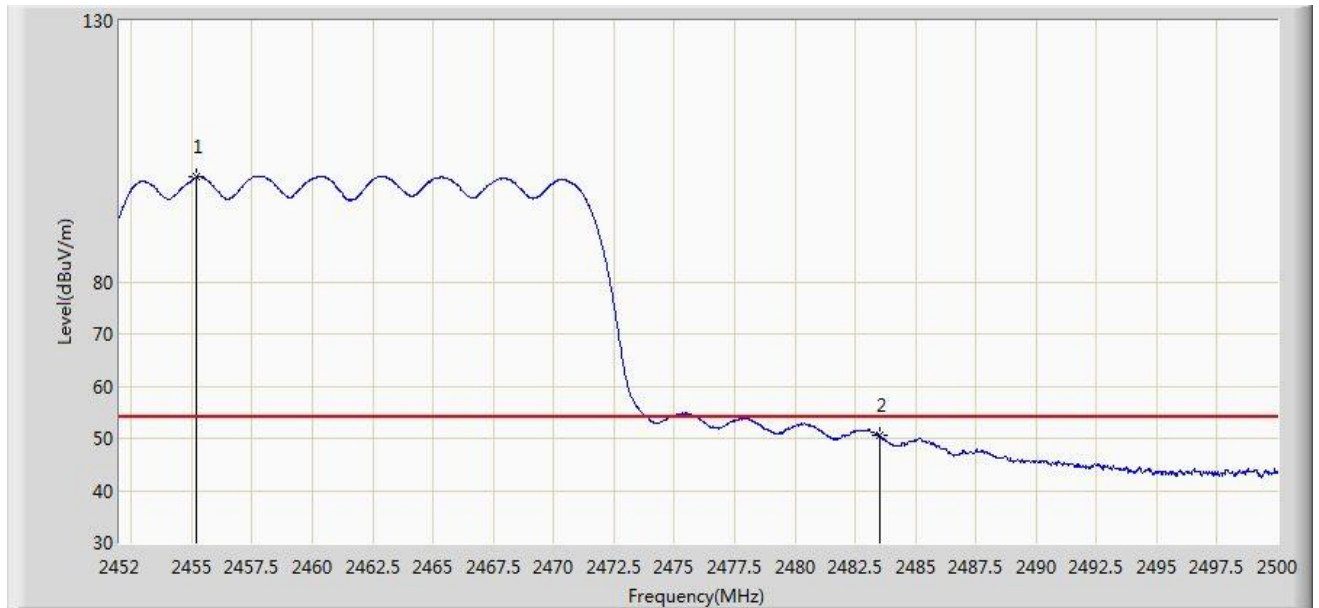


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.848	111.889	79.065	N/A	N/A	32.824	PK
2			2483.500	72.114	39.203	-1.886	74.000	32.911	PK
3			2483.536	73.132	40.221	-0.868	74.000	32.911	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 21:52
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE20 at channel 2462MHz Ant 0 + 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2455.216	100.092	67.300	N/A	N/A	32.792	AV
2			2483.500	50.562	17.651	-3.438	54.000	32.911	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 21:53
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE20 at channel 2462MHz Ant 0 + 1	

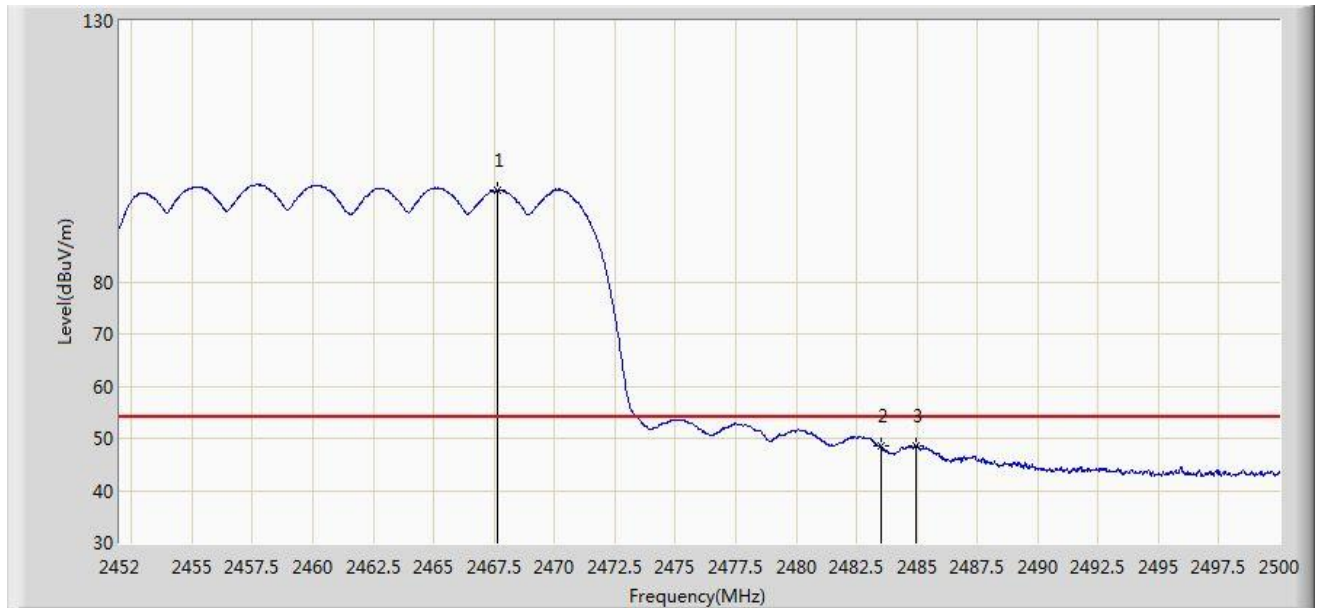


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2455.072	110.974	78.183	N/A	N/A	32.791	PK
2			2483.500	69.316	36.405	-4.684	74.000	32.911	PK
3			2483.608	70.218	37.307	-3.782	74.000	32.912	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 21:54
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE20 at channel 2462MHz Ant 0 + 1	

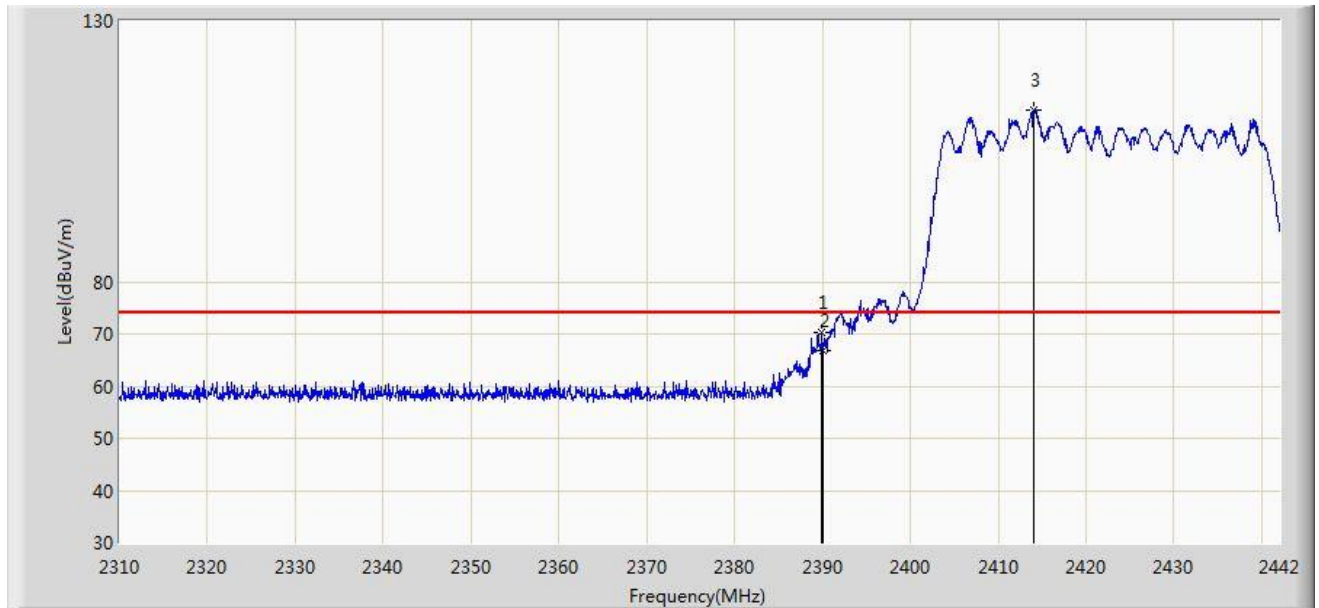


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.648	97.575	64.731	N/A	N/A	32.844	AV
2			2483.500	48.451	15.540	-5.549	54.000	32.911	AV
3			2484.976	48.481	15.564	-5.519	54.000	32.917	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:03
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2422MHz Ant 0 + 1	

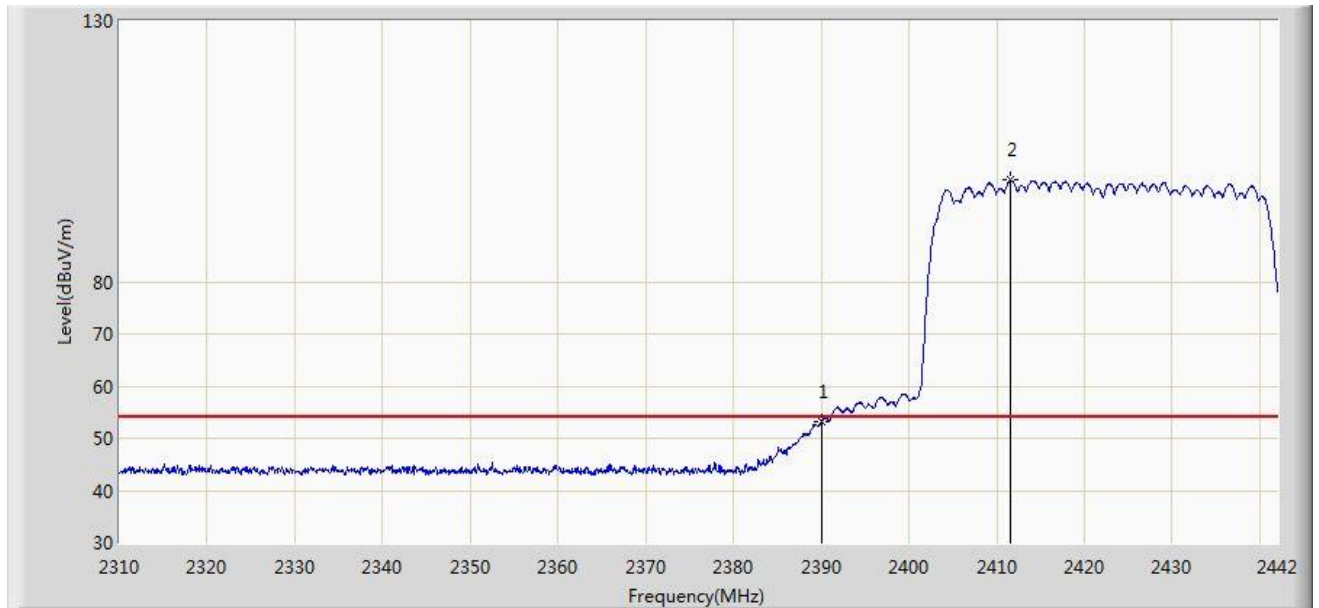


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.926	70.338	37.820	-3.662	74.000	32.518	PK
2			2390.000	66.837	34.319	-7.163	74.000	32.518	PK
3		*	2414.016	112.976	80.357	N/A	N/A	32.618	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:03
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2422MHz Ant 0 + 1	

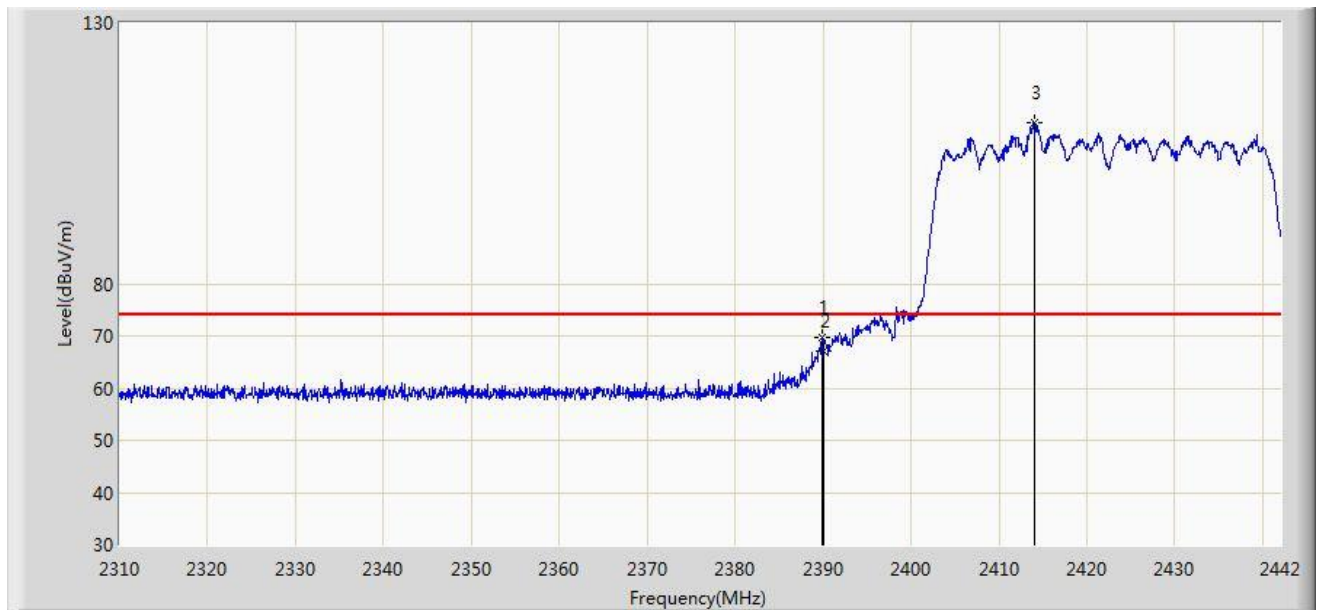


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.130	20.612	-0.870	54.000	32.518	AV
2		*	2411.574	99.423	66.815	N/A	N/A	32.608	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:04
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2422MHz Ant 0 + 1	

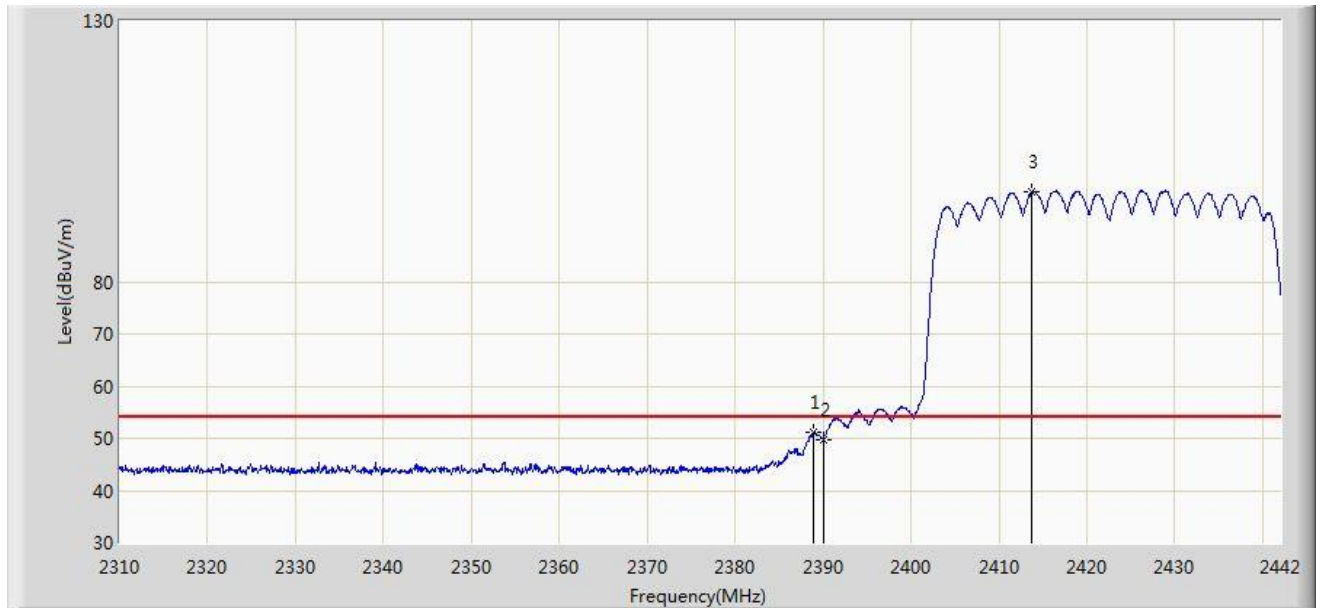


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.926	69.676	37.158	-4.324	74.000	32.518	PK
2			2390.000	67.018	34.500	-6.982	74.000	32.518	PK
3		*	2414.016	110.917	78.298	N/A	N/A	32.618	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:05
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2422MHz Ant 0 + 1	

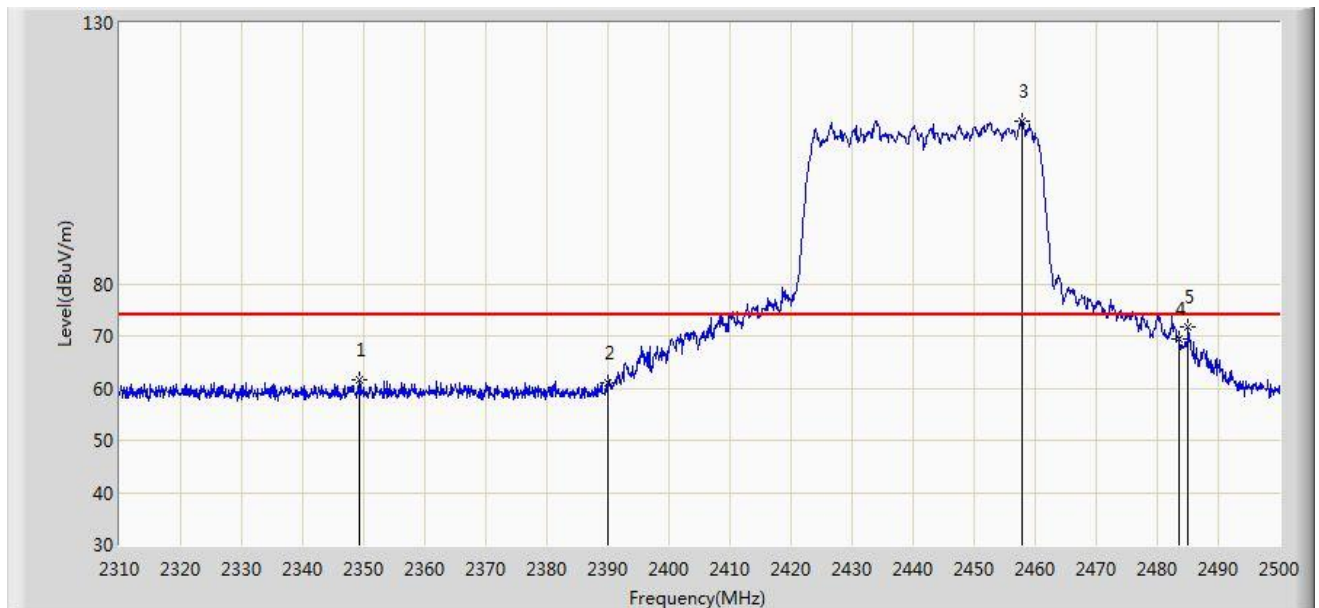


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.870	51.072	18.559	-2.928	54.000	32.514	AV
2			2390.000	49.797	17.279	-4.203	54.000	32.518	AV
3		*	2413.752	97.292	64.675	N/A	N/A	32.617	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:30
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2442MHz Ant 0 + 1	

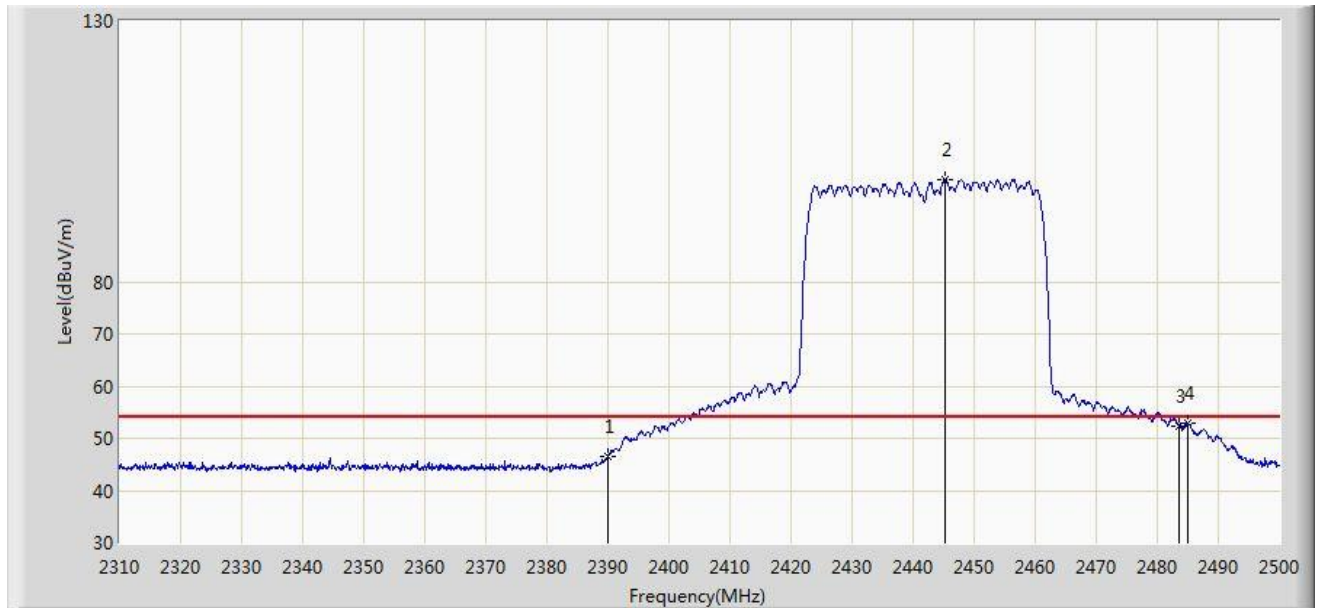


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2349.235	61.712	29.365	-12.288	74.000	32.347	PK
2			2390.000	60.947	28.429	-13.053	74.000	32.518	PK
3		*	2457.820	111.244	78.441	N/A	N/A	32.802	PK
4			2483.500	69.368	36.457	-4.632	74.000	32.911	PK
5			2485.085	71.665	38.747	-2.335	74.000	32.917	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:27
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2442MHz Ant 0 + 1	

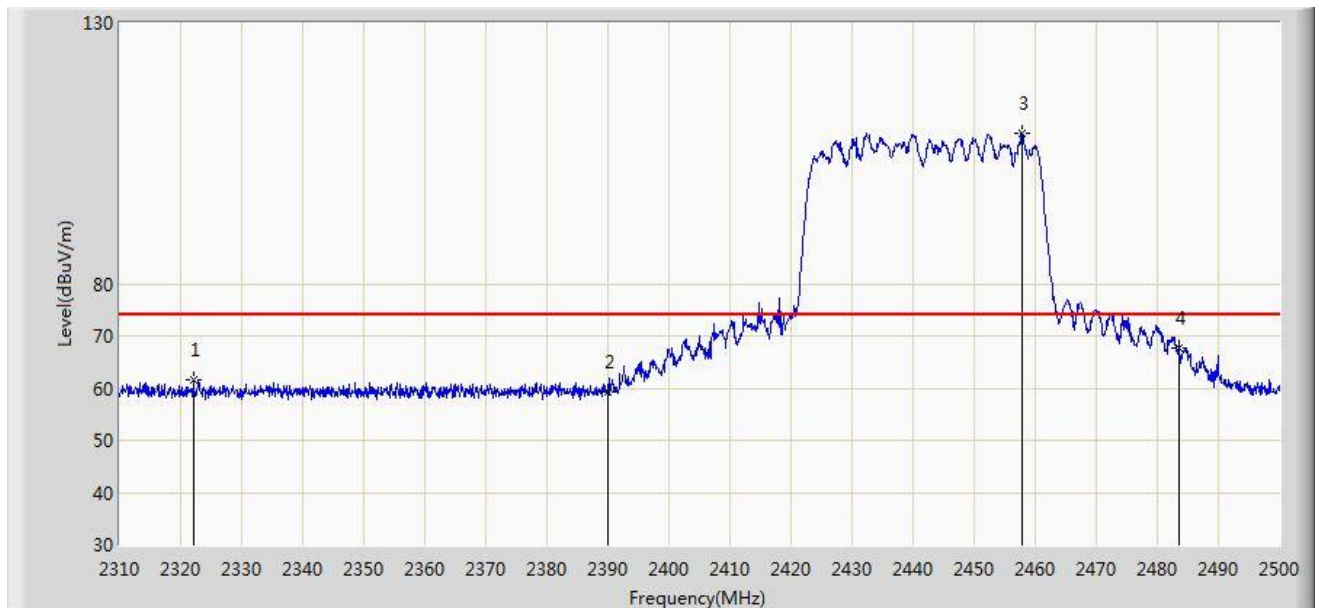


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.647	14.129	-7.353	54.000	32.518	AV
2		*	2445.185	99.654	66.904	N/A	N/A	32.751	AV
3			2483.500	52.395	19.484	-1.605	54.000	32.911	AV
4			2485.085	52.928	20.010	-1.072	54.000	32.917	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:31
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2442MHz Ant 0 + 1	

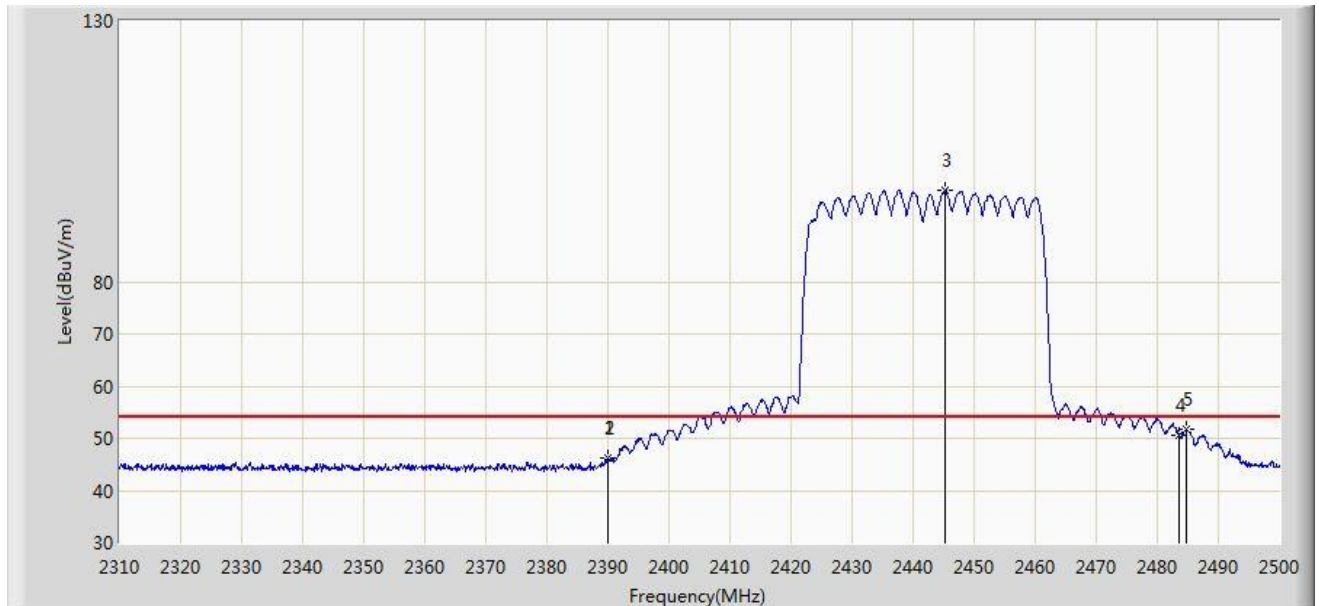


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2322.065	61.629	29.397	-12.371	74.000	32.232	PK
2			2390.000	59.160	26.642	-14.840	74.000	32.518	PK
3		*	2457.820	108.969	76.166	N/A	N/A	32.802	PK
4			2483.500	67.550	34.639	-6.450	74.000	32.911	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:33
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2442MHz Ant 0 + 1	

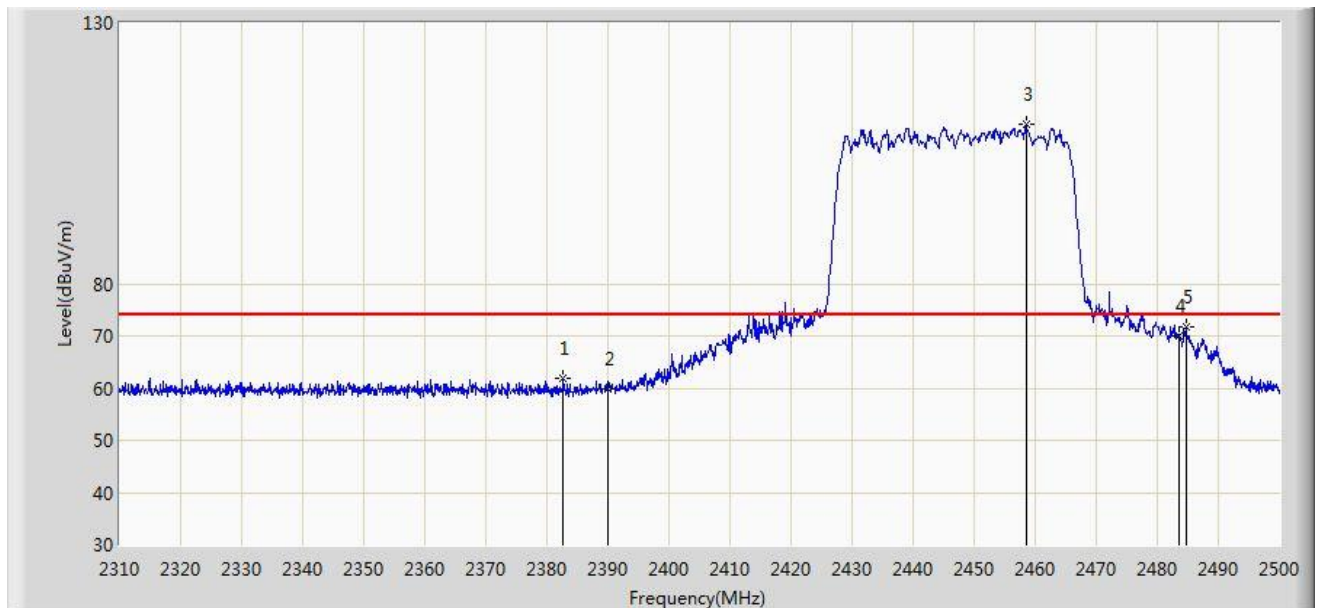


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.990	46.224	13.706	-7.776	54.000	32.518	AV
2			2390.000	46.169	13.651	-7.831	54.000	32.518	AV
3		*	2445.280	97.539	64.788	N/A	N/A	32.751	AV
4			2483.500	50.642	17.731	-3.358	54.000	32.911	AV
5			2484.705	51.715	18.799	-2.285	54.000	32.916	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:16
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2447MHz Ant 0 + 1	

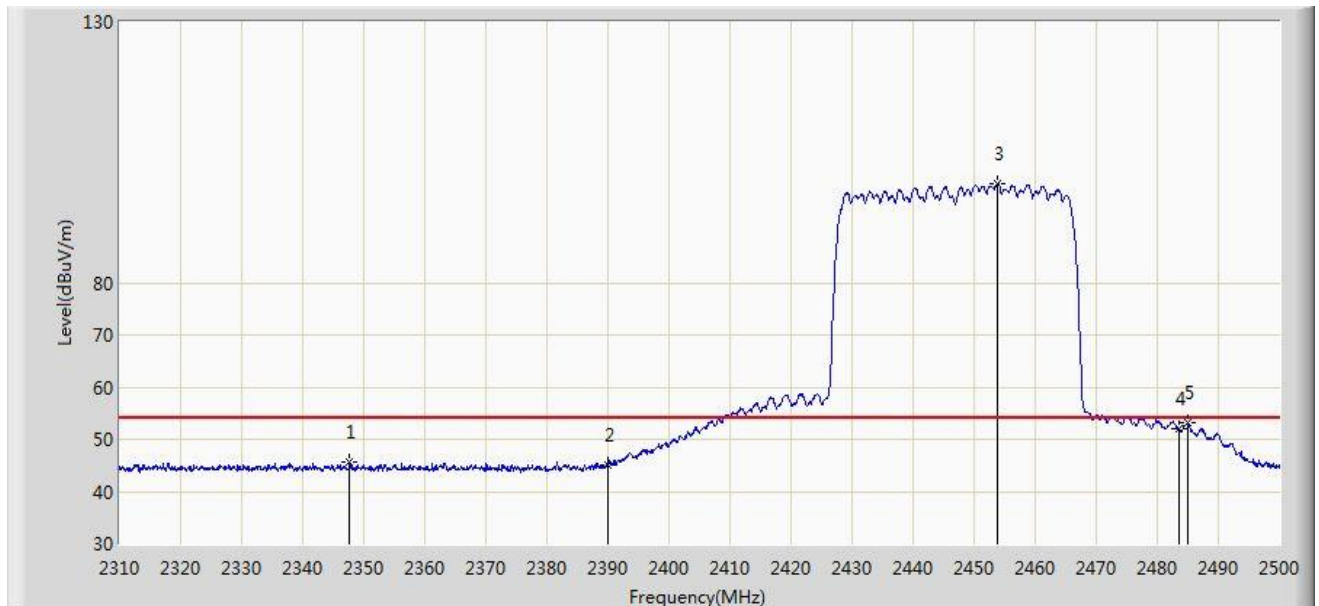


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2382.675	61.920	29.433	-12.080	74.000	32.487	PK
2			2390.000	59.801	27.283	-14.199	74.000	32.518	PK
3		*	2458.580	110.717	77.911	N/A	N/A	32.806	PK
4			2483.500	70.028	37.117	-3.972	74.000	32.911	PK
5			2484.705	71.666	38.750	-2.334	74.000	32.916	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:13
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2447MHz Ant 0 + 1	

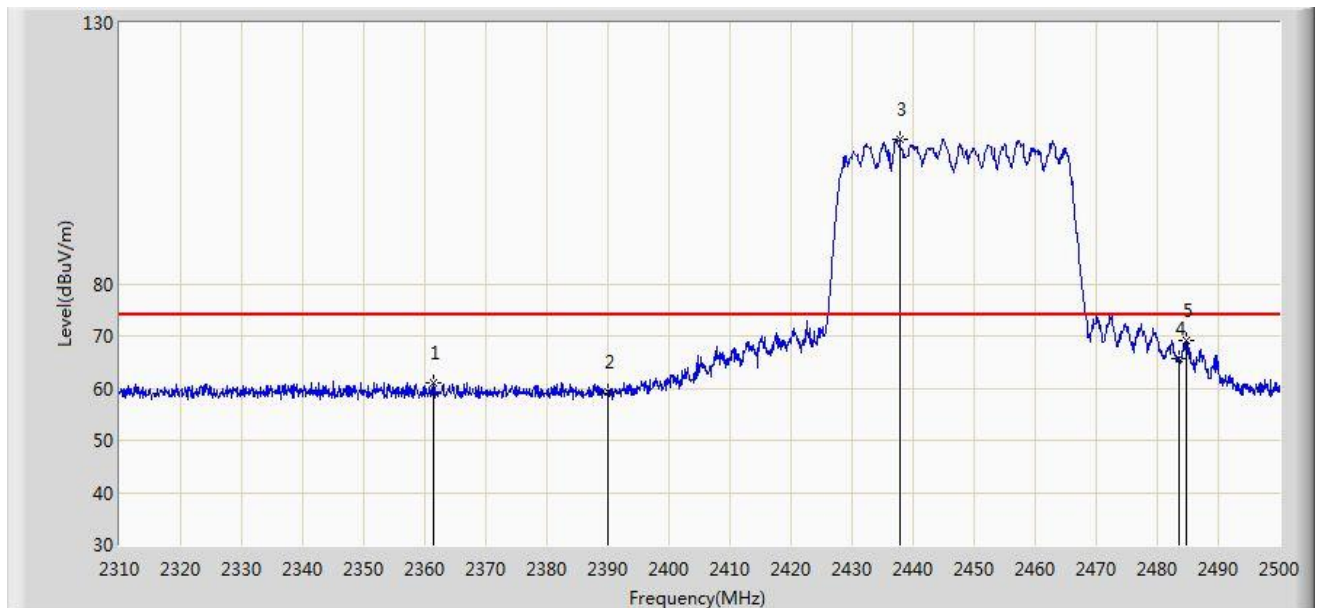


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2347.715	45.738	13.397	-8.262	54.000	32.340	AV
2			2390.000	45.097	12.579	-8.903	54.000	32.518	AV
3		*	2453.925	99.028	66.241	N/A	N/A	32.787	AV
4			2483.500	52.058	19.147	-1.942	54.000	32.911	AV
5			2484.990	53.096	20.179	-0.904	54.000	32.917	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:19
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2447MHz Ant 0 + 1	

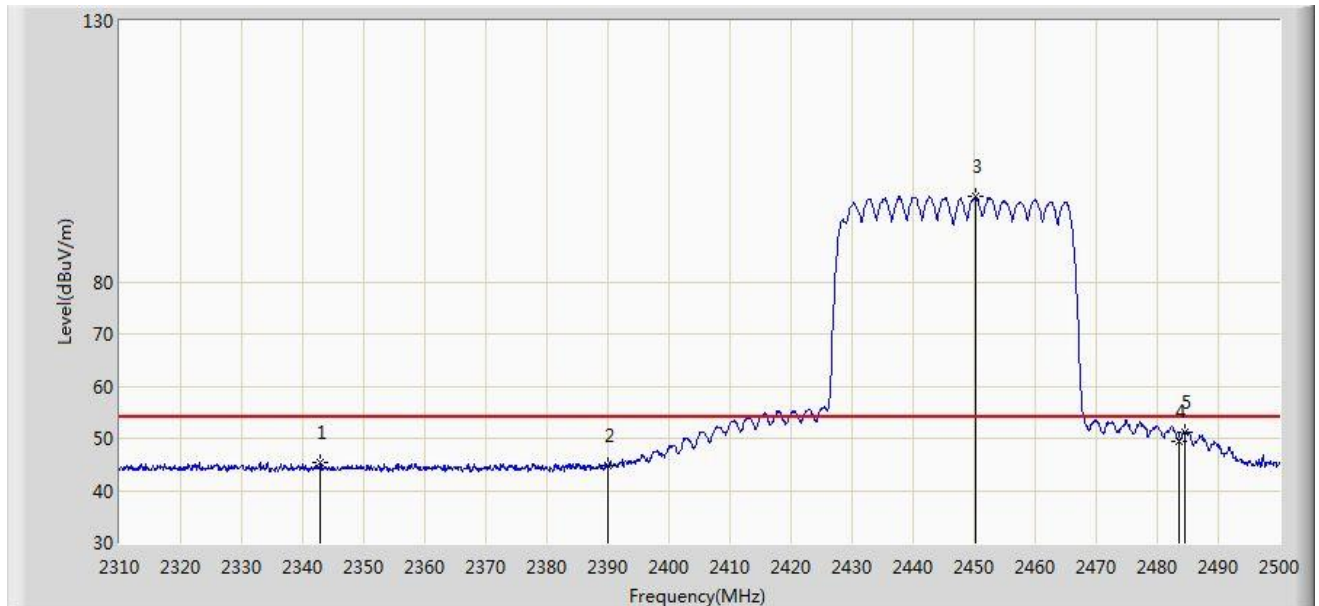


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2361.395	61.116	28.718	-12.884	74.000	32.398	PK
2			2390.000	59.211	26.693	-14.789	74.000	32.518	PK
3		*	2437.870	107.810	75.091	N/A	N/A	32.720	PK
4			2483.500	65.786	32.875	-8.214	74.000	32.911	PK
5			2484.800	69.031	36.115	-4.969	74.000	32.916	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/07/03 - 00:21
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120Dg	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Test Mode : Transmit by 802.11ax-HE40 at channel 2447MHz Ant 0 + 1	

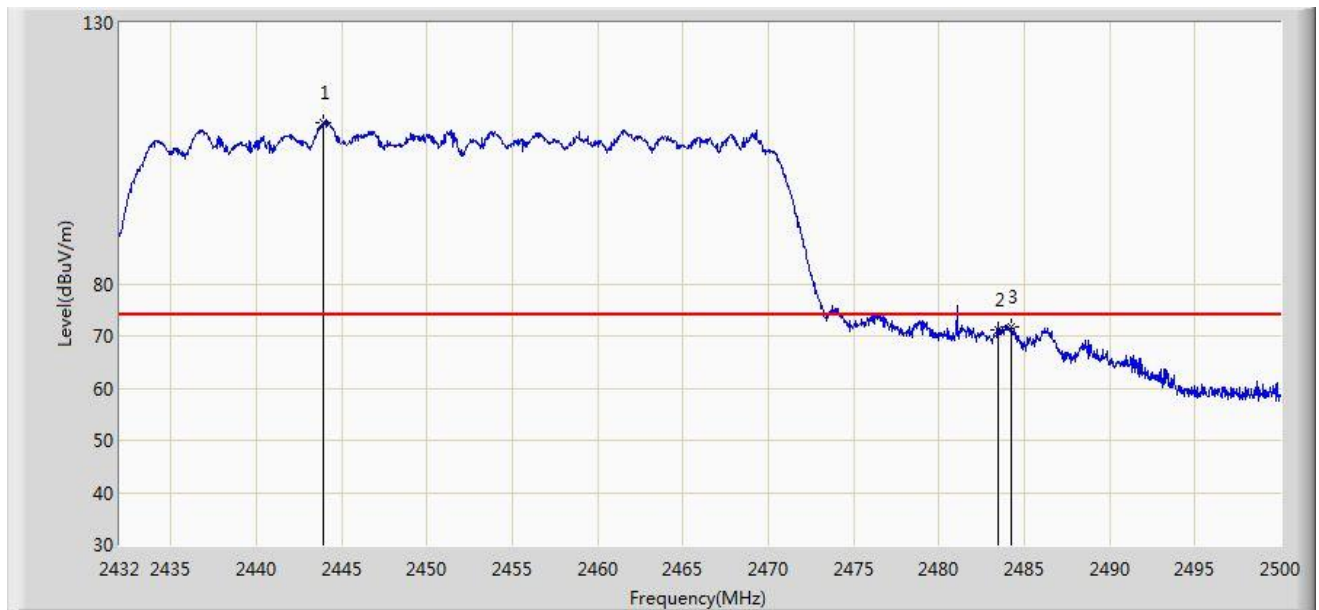


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2342.965	45.439	40.547	-8.561	54.000	4.892	AV
2			2390.000	44.730	39.782	-9.270	54.000	4.948	AV
3		*	2450.220	96.512	91.491	N/A	N/A	5.021	AV
4			2483.500	49.565	44.505	-4.435	54.000	5.060	AV
5			2484.420	51.301	46.240	-2.699	54.000	5.061	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:12
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2452MHz Ant 0 + 1	

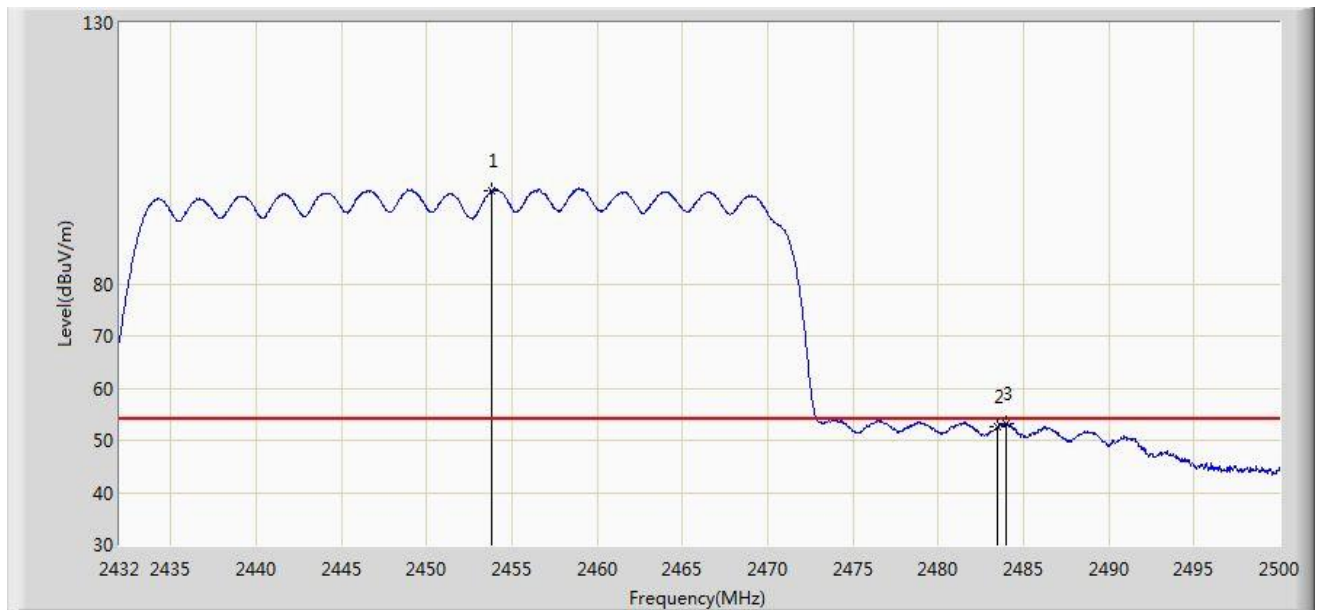


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2443.968	111.009	78.264	N/A	N/A	32.745	PK
2			2483.500	71.031	38.120	-2.969	74.000	32.911	PK
3			2484.224	71.878	38.964	-2.122	74.000	32.914	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:12
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Horizontal
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2452MHz Ant 0 + 1	

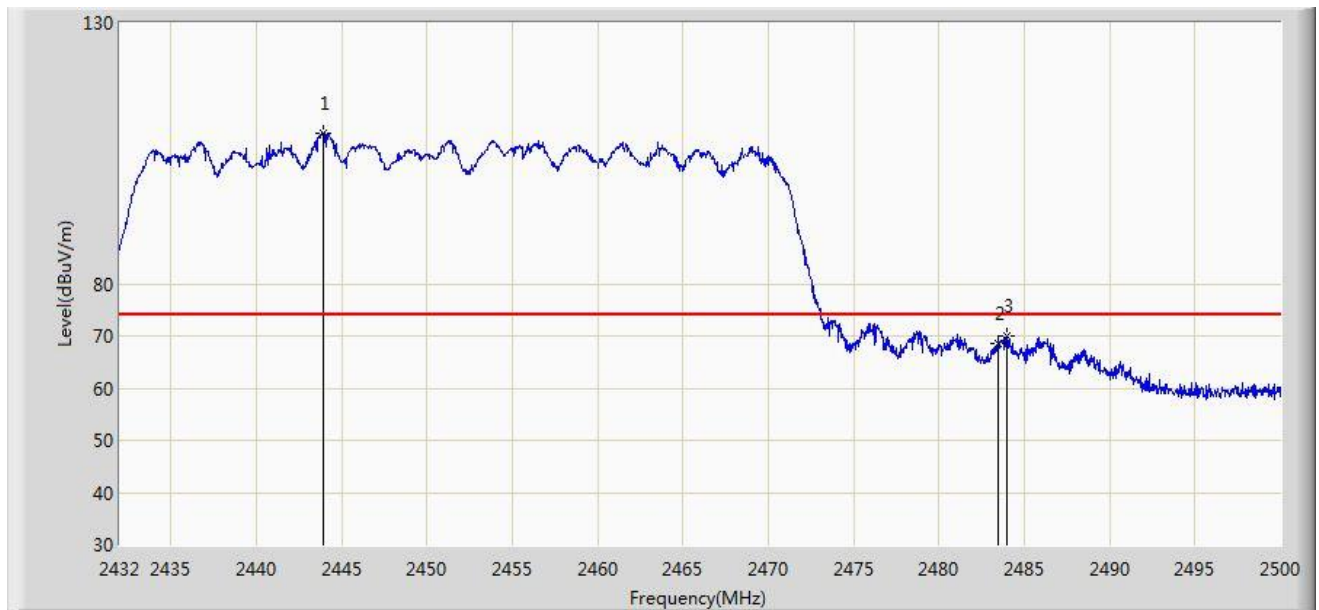


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2453.828	97.882	65.096	N/A	N/A	32.786	AV
2			2483.500	52.695	19.784	-1.305	54.000	32.911	AV
3			2483.986	53.197	20.284	-0.803	54.000	32.913	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:13
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2452MHz Ant 0 + 1	

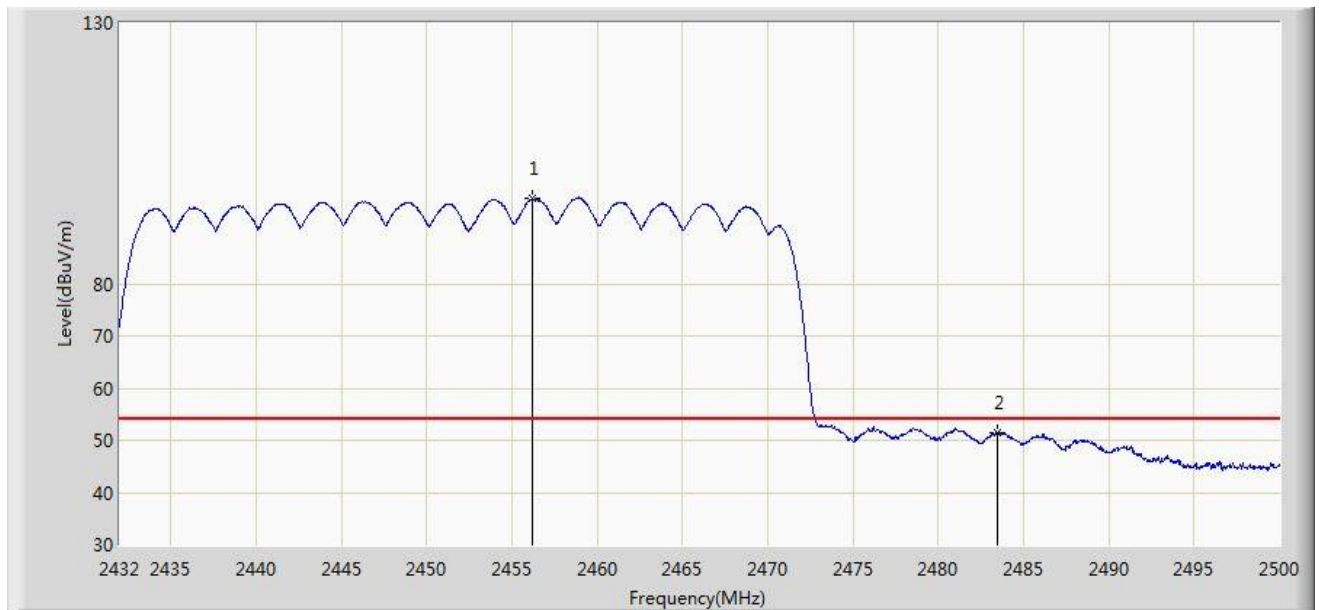


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2443.900	108.932	76.187	N/A	N/A	32.745	PK
2			2483.500	68.612	35.701	-5.388	74.000	32.911	PK
3			2483.986	69.921	37.008	-4.079	74.000	32.913	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2019/06/26 - 22:14
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D	Polarity: Vertical
EUT: Aruba 500 接入點	Power: AC 110V/60Hz
Note: Transmit by 802.11ax-HE40 at channel 2452MHz Ant 0 + 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2456.242	96.306	63.510	N/A	N/A	32.797	AV
2			2483.500	51.415	18.504	-2.585	54.000	32.911	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

5.7. 佔用頻道寬度

5.7.1. 適用標準

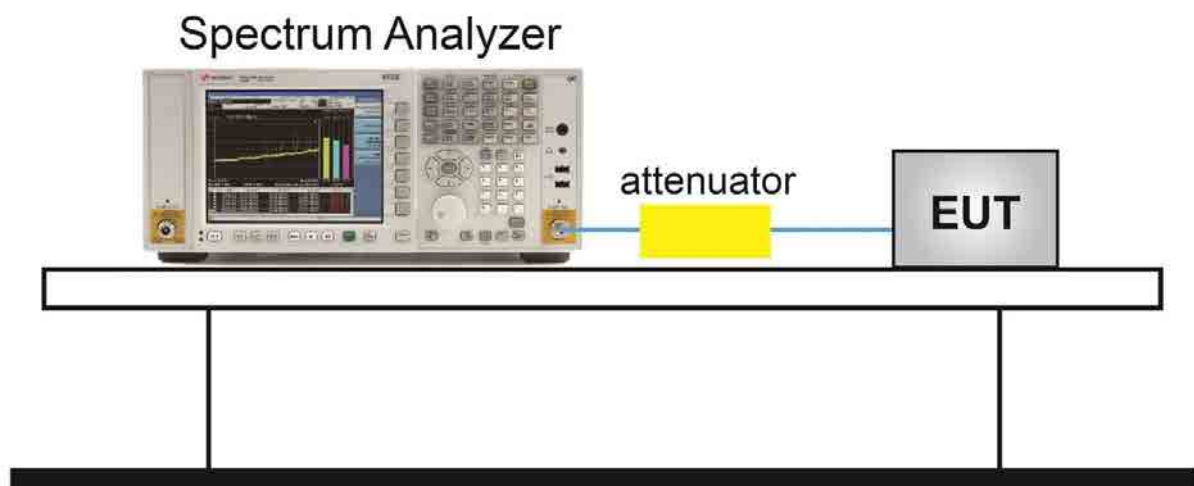
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(A)節之要求，6dB 頻寬至少應有 500kHz。

5.7.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端，設定頻譜分析儀之解析度頻寬為 100kHz，視訊頻寬不小於解析度頻寬，頻率掃瞄範圍(SPAN)遠大於解析度頻寬。

待測物應在正常發射狀態下量測。

5.7.3. 測試架構圖



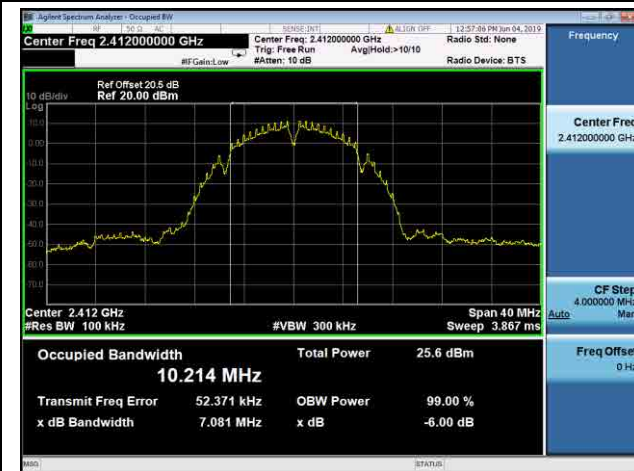
5.7.4. 佔用頻帶寬度測試結果

待測物名稱	Aruba 500 接入點	溫度	25°C
測試工程師	Kevin Ker	濕度	54%
測試場地	SR1	測試日期	2019/06/04
待測物型號	APIN0504		

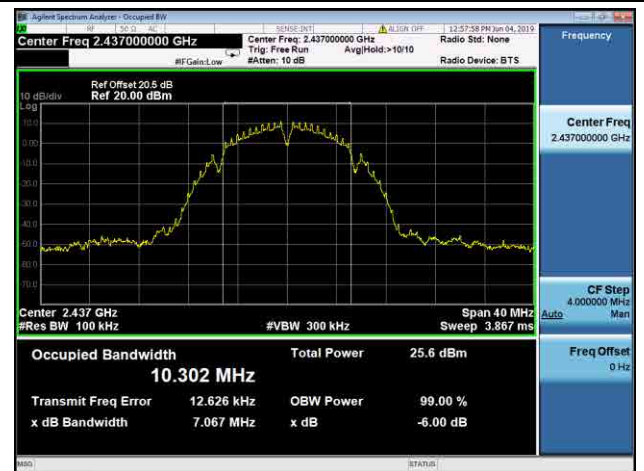
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 1 / Ant 0 + 1						
802.11b	1Mbps	01	2412	7.08	≥ 0.5	Pass
802.11b	1Mbps	06	2437	7.07	≥ 0.5	Pass
802.11b	1Mbps	11	2462	7.07	≥ 0.5	Pass
802.11g	6Mbps	01	2412	16.36	≥ 0.5	Pass
802.11g	6Mbps	06	2437	16.37	≥ 0.5	Pass
802.11g	6Mbps	11	2462	16.37	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	17.57	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	17.61	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	17.59	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	36.11	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	36.16	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	36.13	≥ 0.5	Pass
802.11ax-HE20	MCS0	01	2412	18.67	≥ 0.5	Pass
802.11ax-HE20	MCS0	06	2437	19.01	≥ 0.5	Pass
802.11ax-HE20	MCS0	11	2462	18.98	≥ 0.5	Pass
802.11ax-HE40	MCS0	03	2422	37.56	≥ 0.5	Pass
802.11ax-HE40	MCS0	06	2437	37.64	≥ 0.5	Pass
802.11ax-HE40	MCS0	09	2452	37.35	≥ 0.5	Pass

802.11b 6dB Bandwidth - Ant 1 / Ant 0 + 1

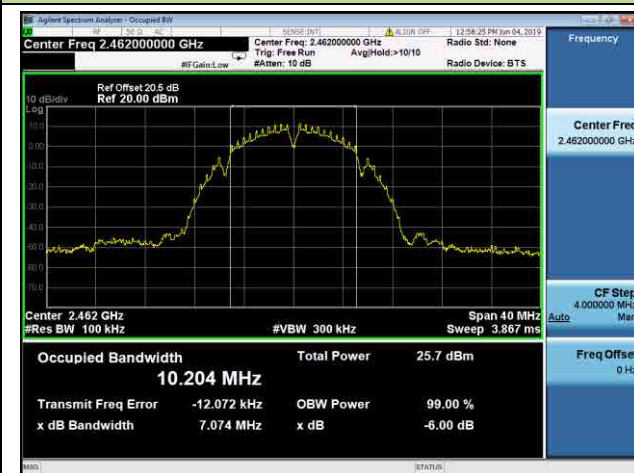
Channel 01 (2412MHz)



Channel 06 (2437MHz)

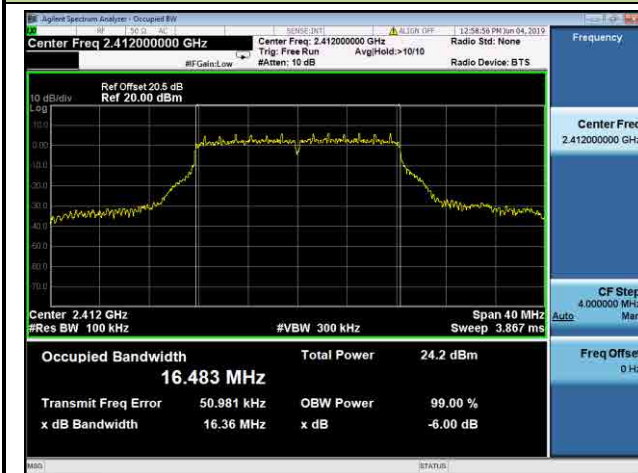


Channel 11 (2462MHz)

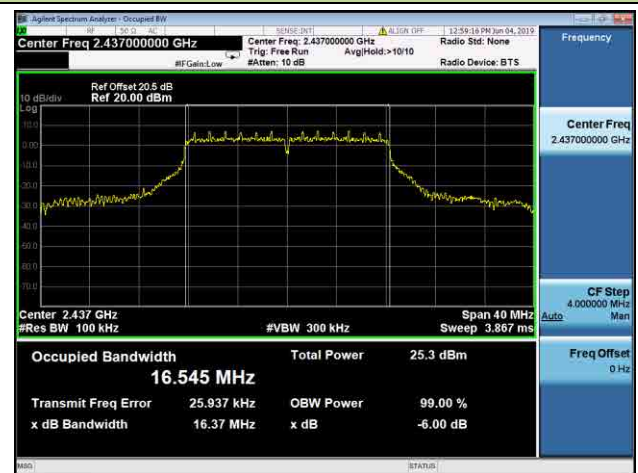


802.11g 6dB Bandwidth - Ant 1 / Ant 0 + 1

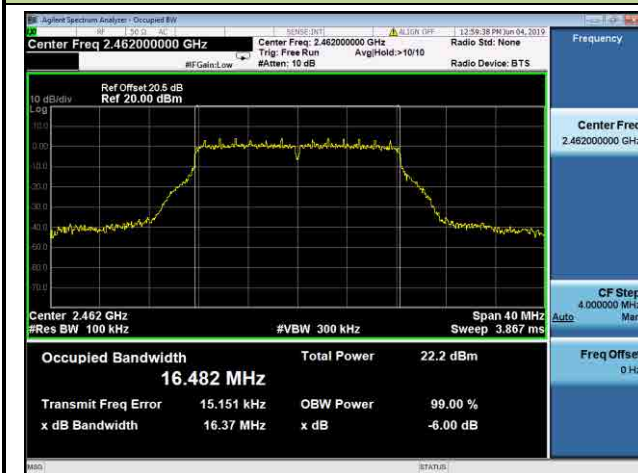
Channel 01 (2412MHz)



Channel 06 (2437MHz)

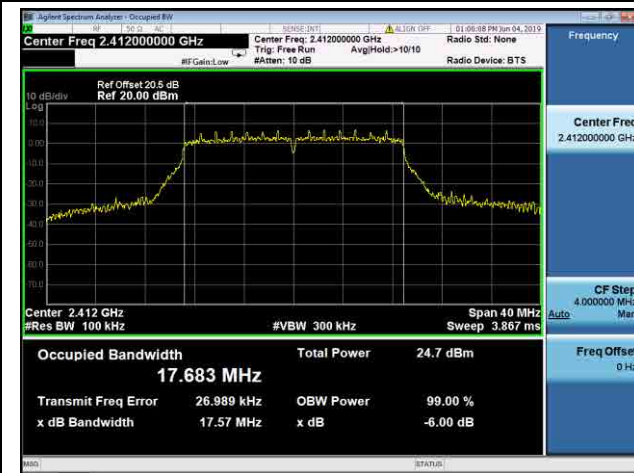


Channel 11 (2462MHz)



802.11n-HT20 6dB Bandwidth - Ant 1 / Ant 0 + 1

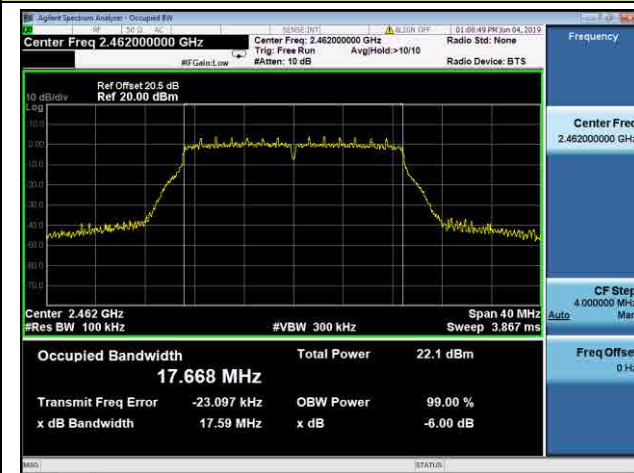
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

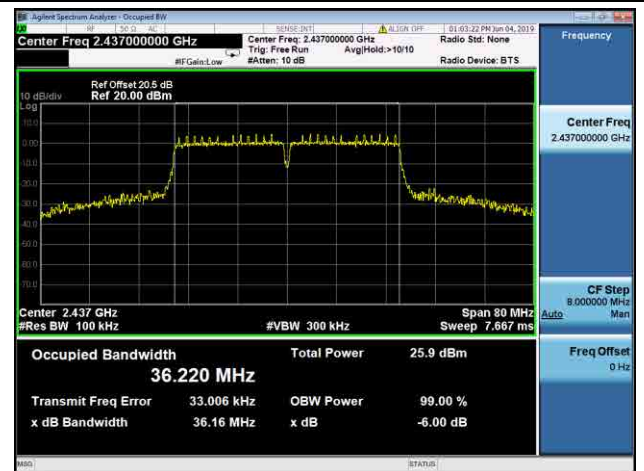


802.11n-HT40 6dB Bandwidth - Ant 1 / Ant 0 + 1

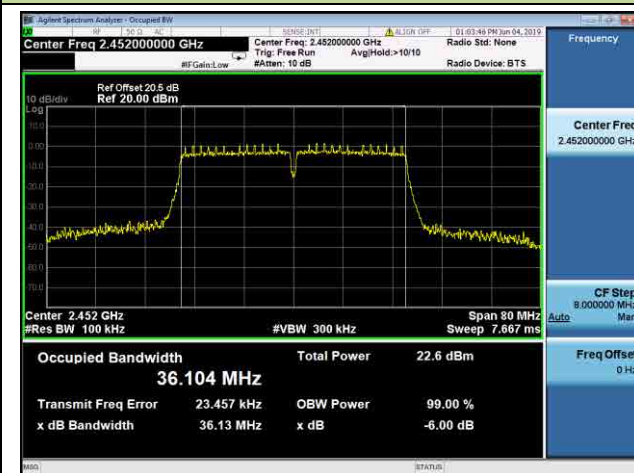
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11ax-HE20 6dB Bandwidth - Ant 1 / Ant 0 + 1

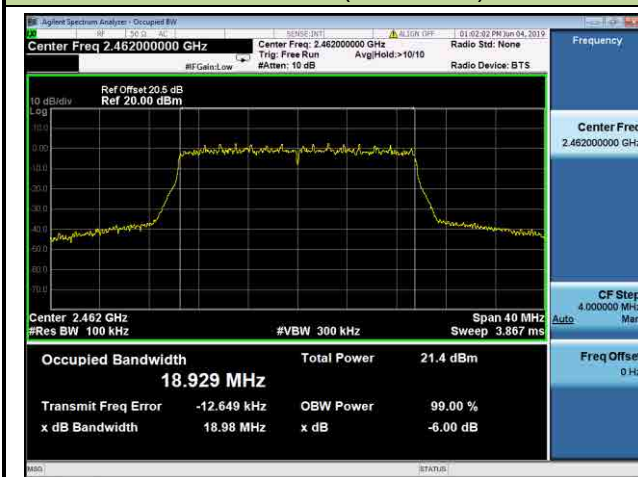
Channel 01 (2412MHz)



Channel 06 (2437MHz)

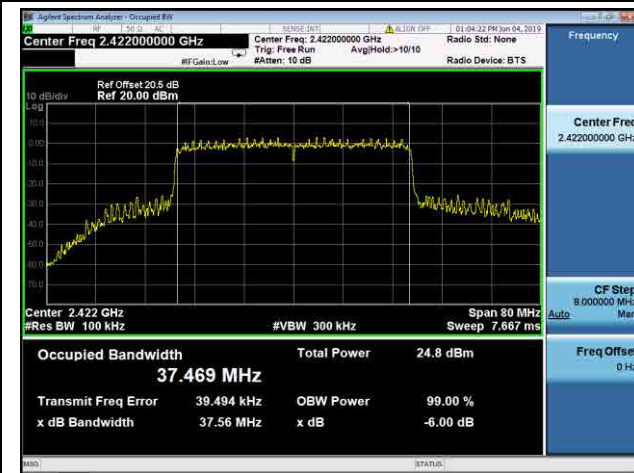


Channel 11 (2462MHz)

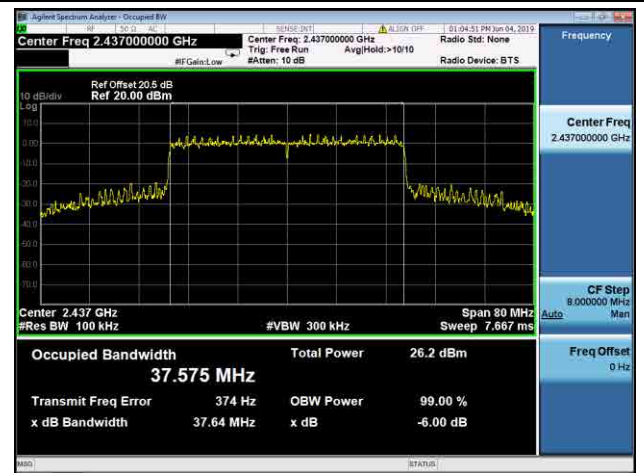


802.11ax-HE40 6dB Bandwidth - Ant 1 / Ant 0 + 1

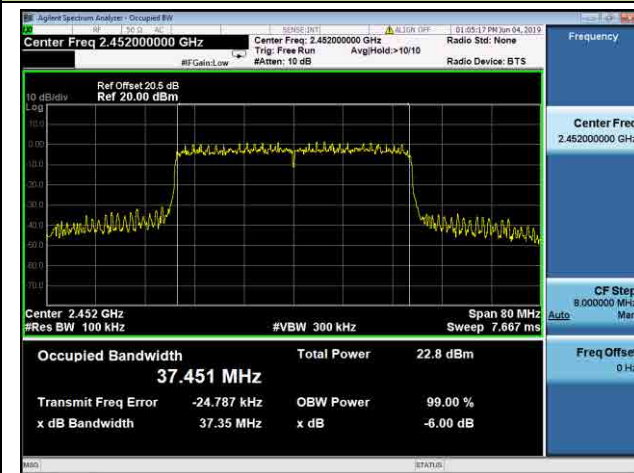
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



5.8. 發射電功率密度

5.8.1. 適用標準

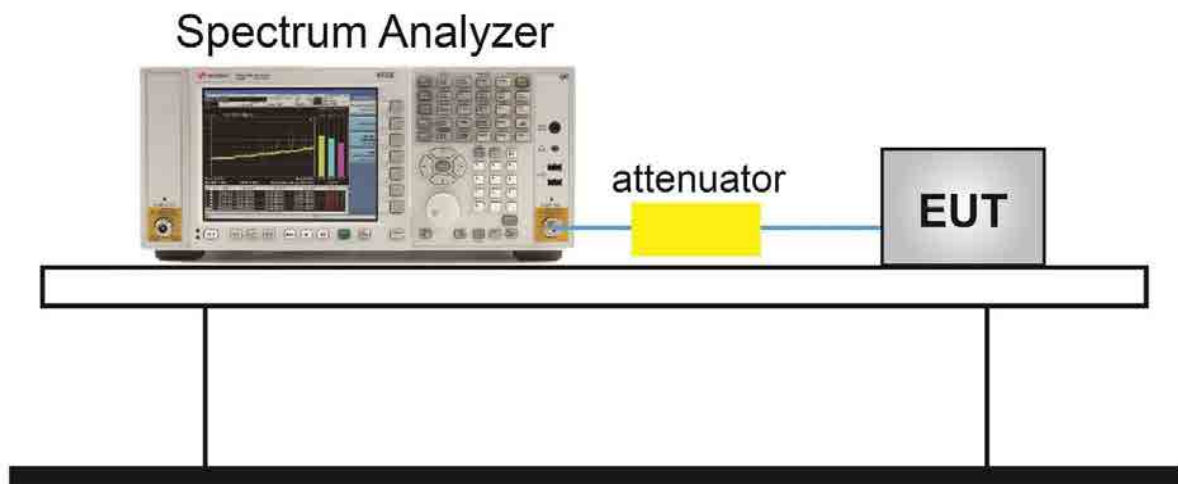
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6(2)(B)節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

5.8.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端。找出發射峰值並擴展於通帶內，設定頻譜分析儀之解析度頻寬為 3kHz，視訊頻寬大於解析度頻寬，掃瞄時間為頻率掃瞄範圍除以 3kHz。(SWEEP TIME = SPAN/3kHz)。

待測物應在正常發射狀態下量測。

5.8.3. 測試架構圖



5.8.4. 功率密度量測結果

待測物名稱	Aruba 500 接入點	溫度	23°C
測試工程師	Kevin Ker	濕度	54%
測試場地	SR1	測試日期	2019/06/04 - 2019/07/03
待測物型號	APIN0504	測試項目	Power Spectral Density

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 AVGPSD (dBm / 10kHz)	Ant 1 AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Total AVGPSD (dBm / 10kHz)	Limit (dBm / 3kHz)	Result
11b	1Mbps	01	2412	-7.47	-7.29	94.55	-4.37	≤ 8.0	Pass
11b	1Mbps	06	2437	-7.50	-7.20	94.55	-4.34	≤ 8.0	Pass
11b	1Mbps	11	2462	-7.29	-7.15	94.55	-4.21	≤ 8.0	Pass
11g	6Mbps	01	2412	-11.23	-10.50	94.42	-7.84	≤ 8.0	Pass
11g	6Mbps	06	2437	-10.22	-9.57	94.42	-6.87	≤ 8.0	Pass
11g	6Mbps	11	2462	-13.06	-12.70	94.42	-9.87	≤ 8.0	Pass
11n-HT20	MCS0	01	2412	-11.25	-11.20	94.04	-8.21	≤ 8.0	Pass
11n-HT20	MCS0	06	2437	-9.84	-9.85	94.04	-6.83	≤ 8.0	Pass
11n-HT20	MCS0	11	2462	-13.41	-13.40	94.04	-10.39	≤ 8.0	Pass
11n-HT40	MCS0	03	2422	-14.95	-15.14	88.77	-12.03	≤ 8.0	Pass
11n-HT40	MCS0	06	2437	-14.98	-15.17	88.77	-12.06	≤ 8.0	Pass
11n-HT40	MCS0	09	2452	-16.00	-15.41	88.77	-12.68	≤ 8.0	Pass
11ax-HE20	MCS0	01	2412	-13.18	-13.26	97.35	-10.21	≤ 8.0	Pass
11ax-HE20	MCS0	06	2437	-10.60	-9.64	97.35	-7.08	≤ 8.0	Pass
11ax-HE20	MCS0	11	2462	-15.64	-15.71	97.35	-12.66	≤ 8.0	Pass
11ax-HE40	MCS0	03	2422	-15.95	-15.97	94.68	-12.95	≤ 8.0	Pass
11ax-HE40	MCS0	06	2437	-16.63	-16.26	94.68	-13.43	≤ 8.0	Pass
11ax-HE40	MCS0	09	2452	-17.55	-16.78	94.68	-14.14	≤ 8.0	Pass

Note 1: When EUT duty cycle ≥ 98%, Total AVGPSD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\}$.

Note 2: When EUT duty cycle < 98%, Total AVGPSD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{duty cycle})$.

待測物名稱	Aruba 500 接入點	溫度	23°C
測試工程師	Kevin Ker	濕度	54%
測試場地	SR1	測試日期	2019/06/16 – 2019/07/03
待測物型號	APIN0505	測試項目	Power Spectral Density

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 AVGPSD (dBm / 10kHz)	Ant 1 AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Total AVGPSD (dBm / 10kHz)	Limit (dBm / 3kHz)	Result
11b	1Mbps	01	2412	-7.18	-6.87	93.97	-4.01	≤ 6.92	Pass
11b	1Mbps	06	2437	-6.99	-6.58	93.97	-3.77	≤ 6.92	Pass
11b	1Mbps	11	2462	-7.34	-6.68	93.97	-3.99	≤ 6.92	Pass
11g	6Mbps	01	2412	-10.02	-10.14	94.08	-7.07	≤ 6.92	Pass
11g	6Mbps	06	2437	-9.91	-9.91	94.08	-6.90	≤ 6.92	Pass
11g	6Mbps	11	2462	-13.01	-11.76	94.08	-9.33	≤ 6.92	Pass
11n-HT20	MCS0	01	2412	-10.08	-10.27	94.80	-7.16	≤ 6.92	Pass
11n-HT20	MCS0	06	2437	-10.08	-10.38	94.80	-7.22	≤ 6.92	Pass
11n-HT20	MCS0	11	2462	-12.38	-12.68	94.80	-9.52	≤ 6.92	Pass
11n-HT40	MCS0	03	2422	-13.68	-13.39	96.14	-10.52	≤ 6.92	Pass
11n-HT40	MCS0	06	2437	-12.35	-12.75	96.14	-9.54	≤ 6.92	Pass
11n-HT40	MCS0	09	2452	-15.15	-14.82	96.14	-11.97	≤ 6.92	Pass
11ax-HE20	MCS0	01	2412	-11.94	-12.09	96.71	-9.00	≤ 6.92	Pass
11ax-HE20	MCS0	06	2437	-10.67	-10.77	96.71	-7.71	≤ 6.92	Pass
11ax-HE20	MCS0	11	2462	-13.73	-13.88	96.71	-10.79	≤ 6.92	Pass
11ax-HE40	MCS0	03	2422	-14.36	-14.42	95.58	-11.38	≤ 6.92	Pass
11ax-HE40	MCS0	06	2437	-12.76	-13.41	95.58	-10.06	≤ 6.92	Pass
11ax-HE40	MCS0	09	2452	-16.43	-15.84	95.58	-13.11	≤ 6.92	Pass

Note 1: When EUT duty cycle ≥ 98%, Total AVGPSD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\}$.

Note 2: When EUT duty cycle < 98%, Total AVGPSD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{duty cycle})$.

Note 3: PSD Limit = 8 dBm/3kHz - (7.08 dBi – 6.00 dBi) = 6.92 dBm/3kHz.

待測物名稱	Aruba 500 接入點	溫度	25°C
測試工程師	Kevin Ker	濕度	54%
測試場地	SR1	測試日期	2019/06/04
待測物型號	APIN0504		

802.11b AVGPSPD - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

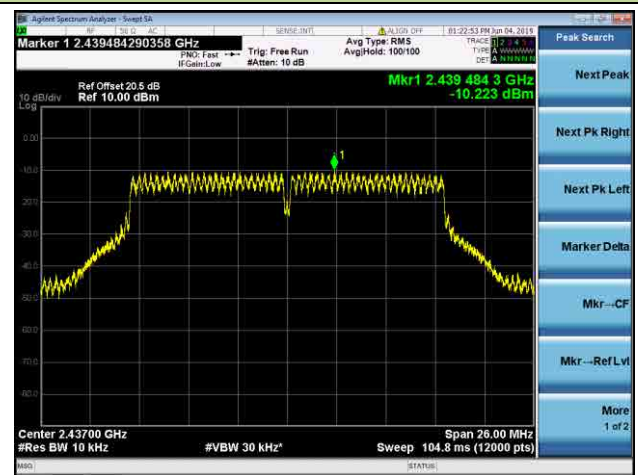


802.11g AVGPSPD - Ant 0 / Ant 0 + 1

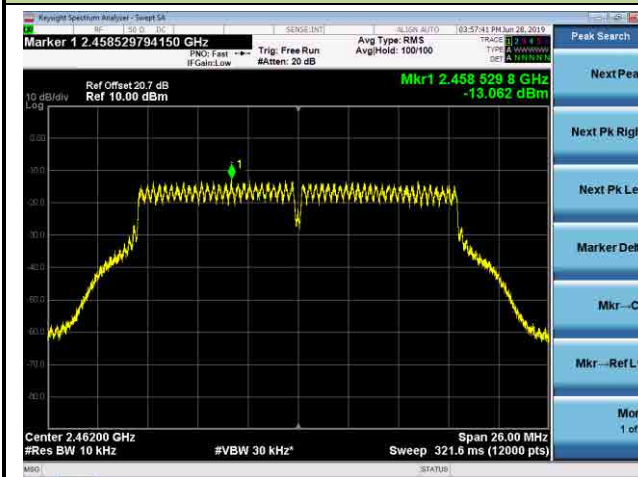
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

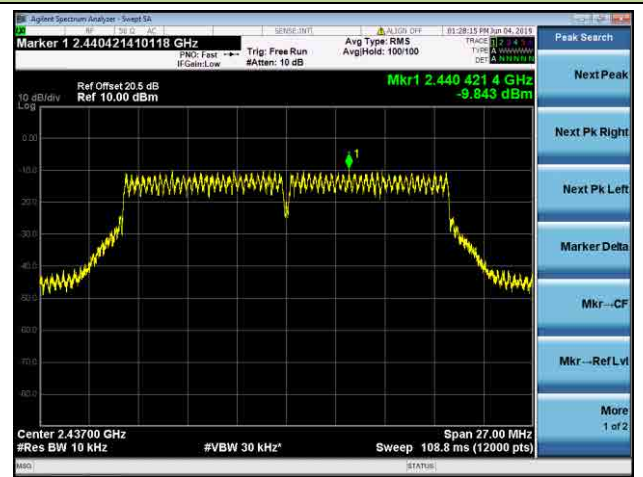


802.11n-HT20 AVGPSPD - Ant 0 / Ant 0 + 1

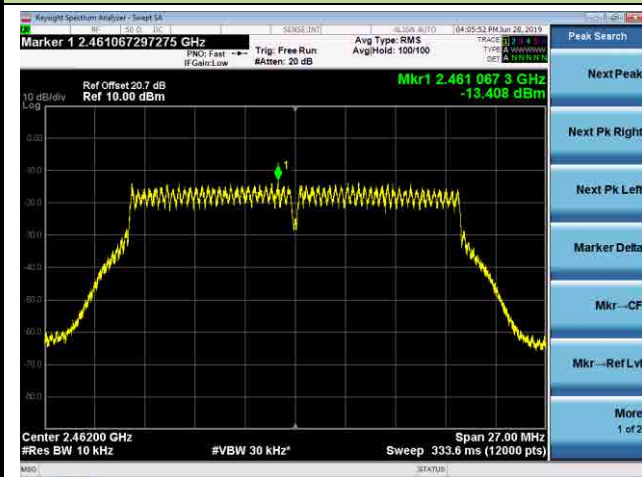
Channel 01 (2412MHz)



Channel 06 (2437MHz)

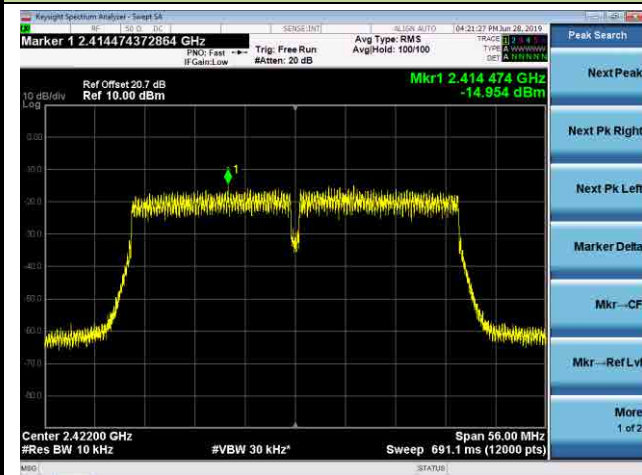


Channel 11 (2462MHz)

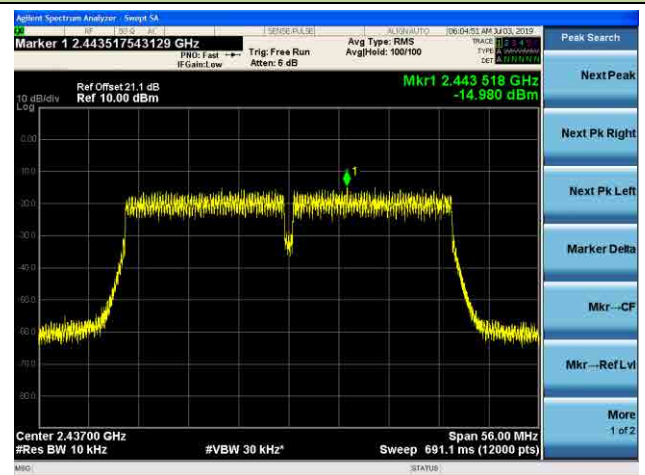


802.11n-HT40 AVGPSPD - Ant 0 / Ant 0 + 1

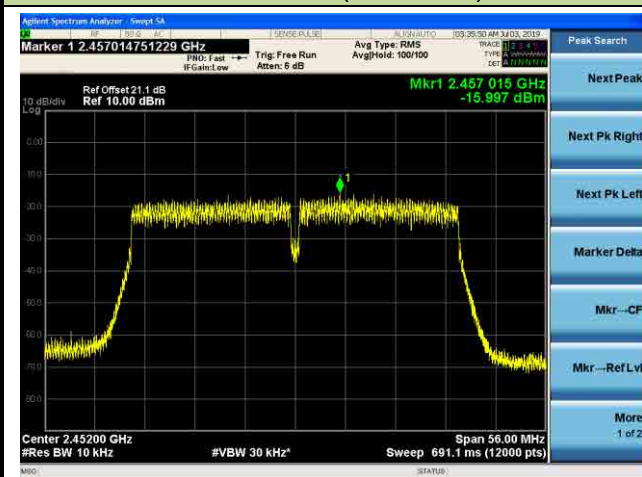
Channel 03 (2422MHz)



Channel 06 (2437MHz)

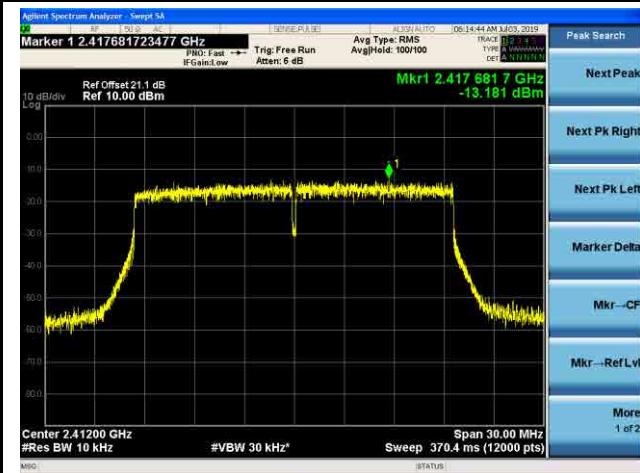


Channel 09 (2452MHz)

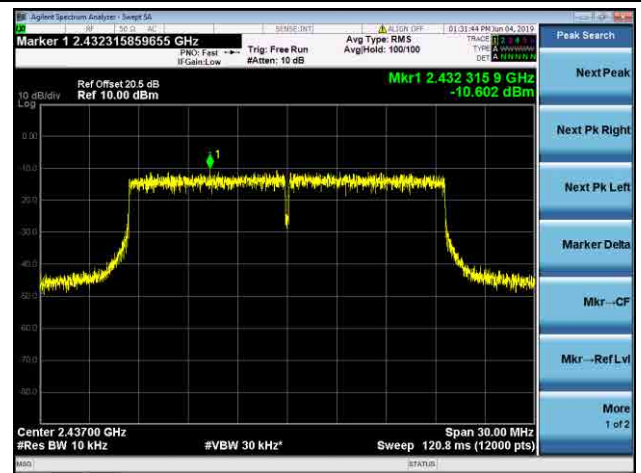


802.11ax-HE20 AVGPSPD - Ant 0 / Ant 0 + 1

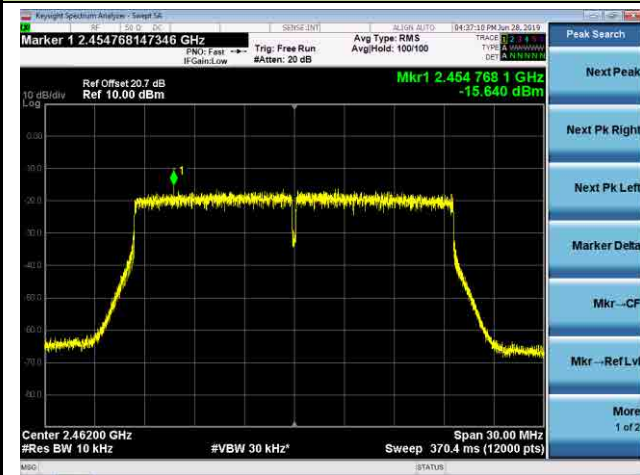
Channel 01 (2412MHz)



Channel 06 (2437MHz)

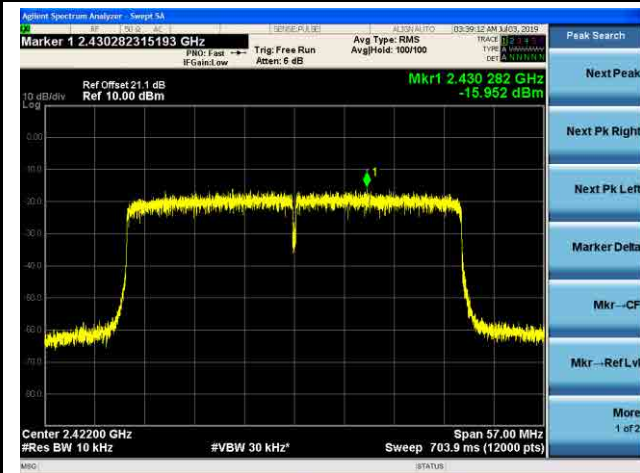


Channel 11 (2462MHz)

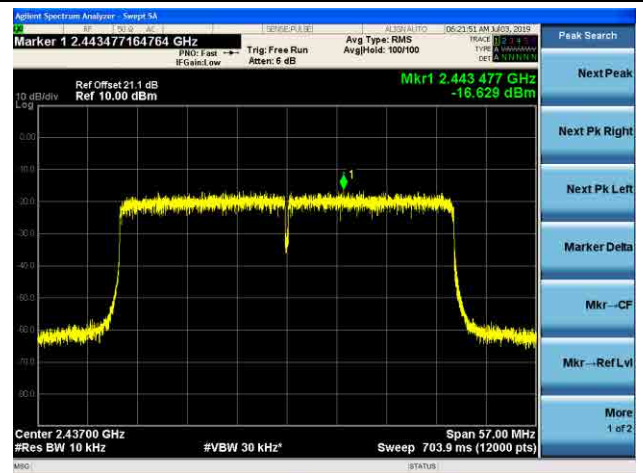


802.11ax-HE40 AVGPSPD - Ant 0 / Ant 0 + 1

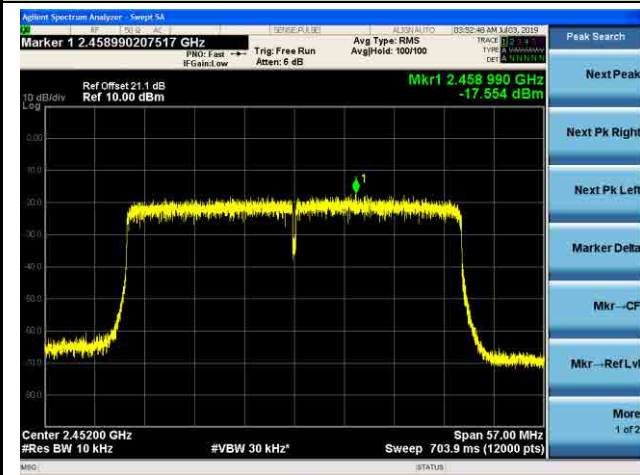
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b AVGPSPD - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

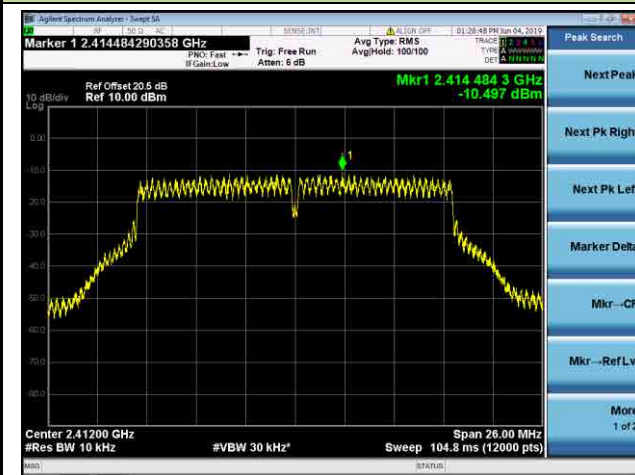


Channel 11 (2462MHz)

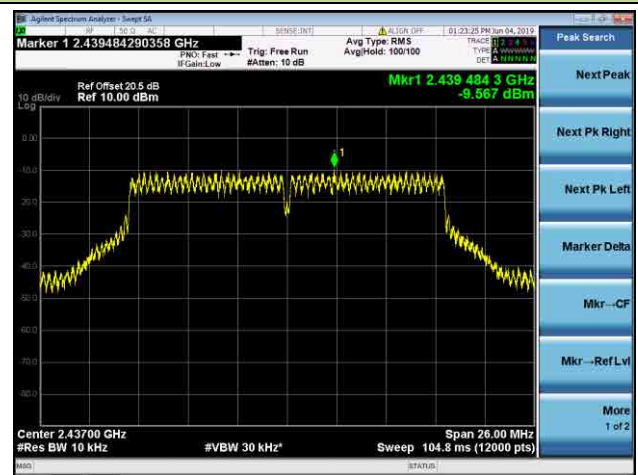


802.11g AVGPSPD - Ant 1 / Ant 0 + 1

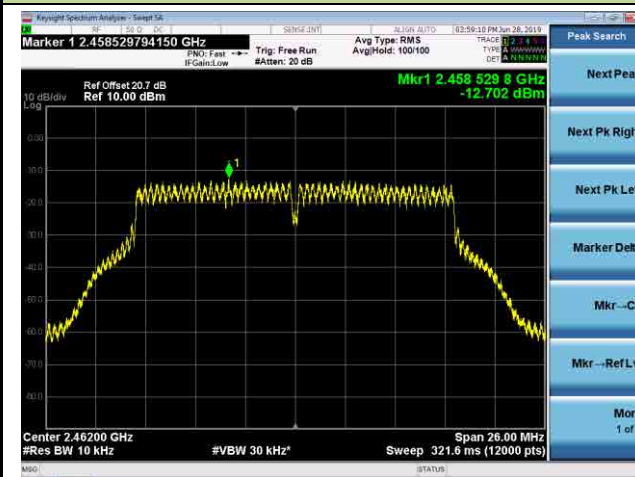
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

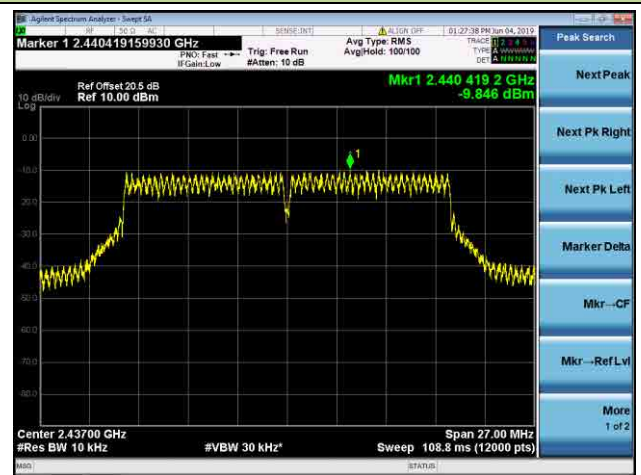


802.11n-HT20 AVGPSPD - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

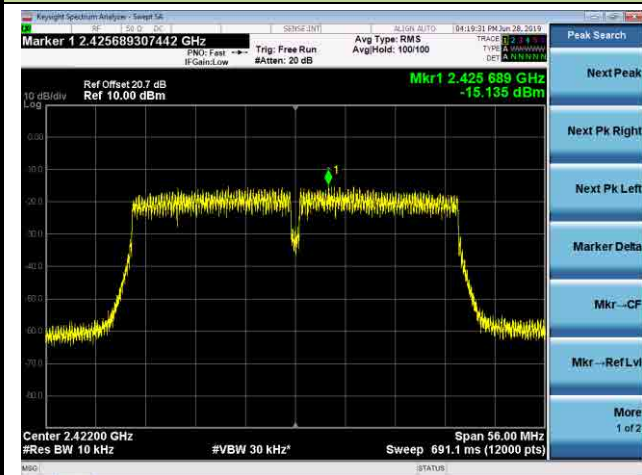


Channel 11 (2462MHz)

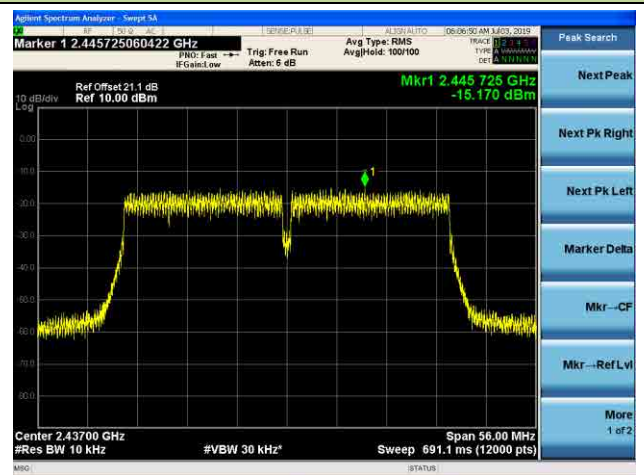


802.11n-HT40 AVGPSPD - Ant 1 / Ant 0 + 1

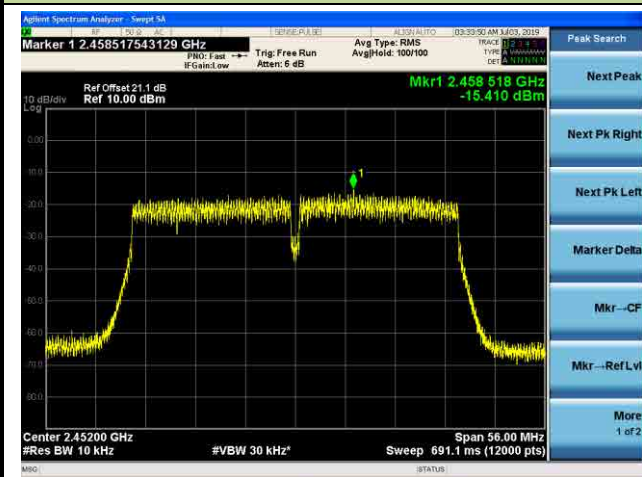
Channel 03 (2422MHz)



Channel 06 (2437MHz)

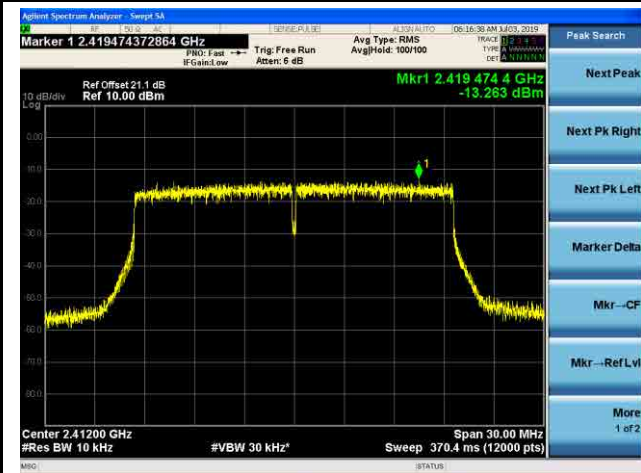


Channel 09 (2452MHz)

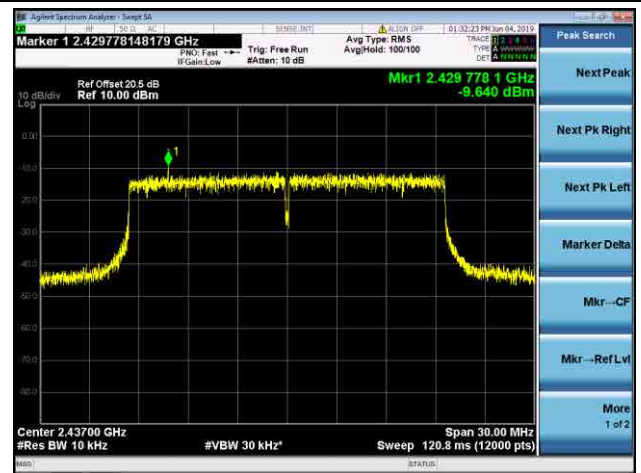


802.11ax-HE20 AVGPSPD - Ant 1 / Ant 0 + 1

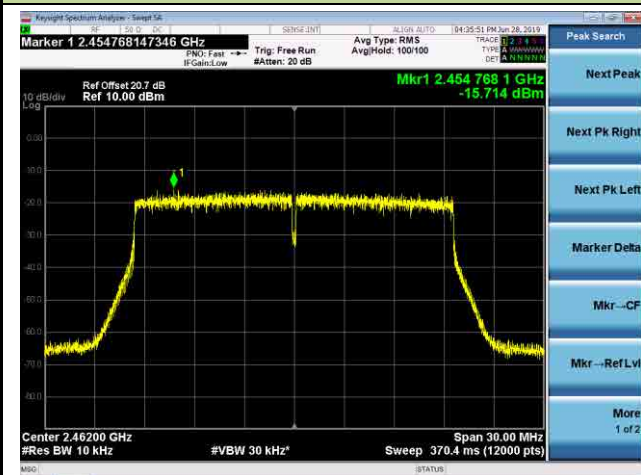
Channel 01 (2412MHz)



Channel 06 (2437MHz)

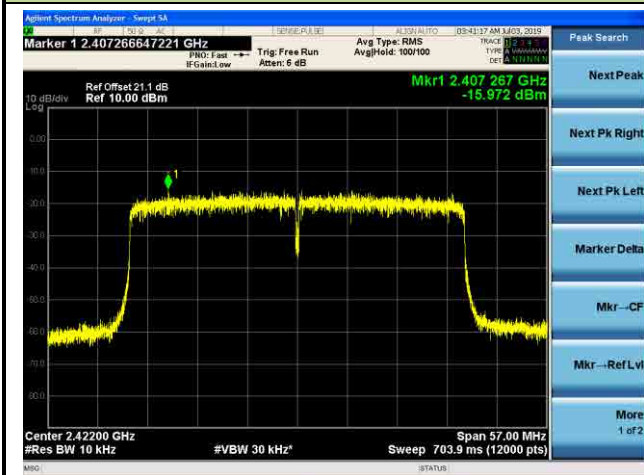


Channel 11 (2462MHz)

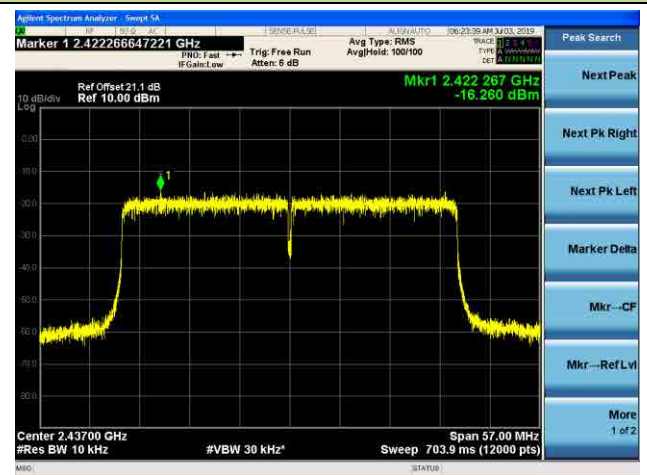


802.11ax-HE40 AVGPSPD - Ant 1 / Ant 0 + 1

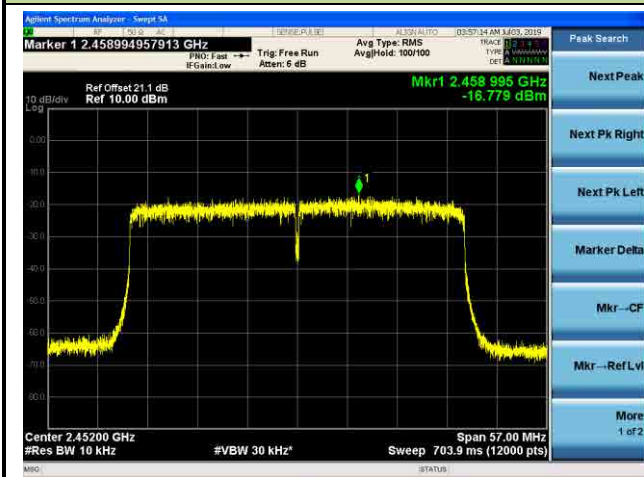
Channel 03 (2422MHz)



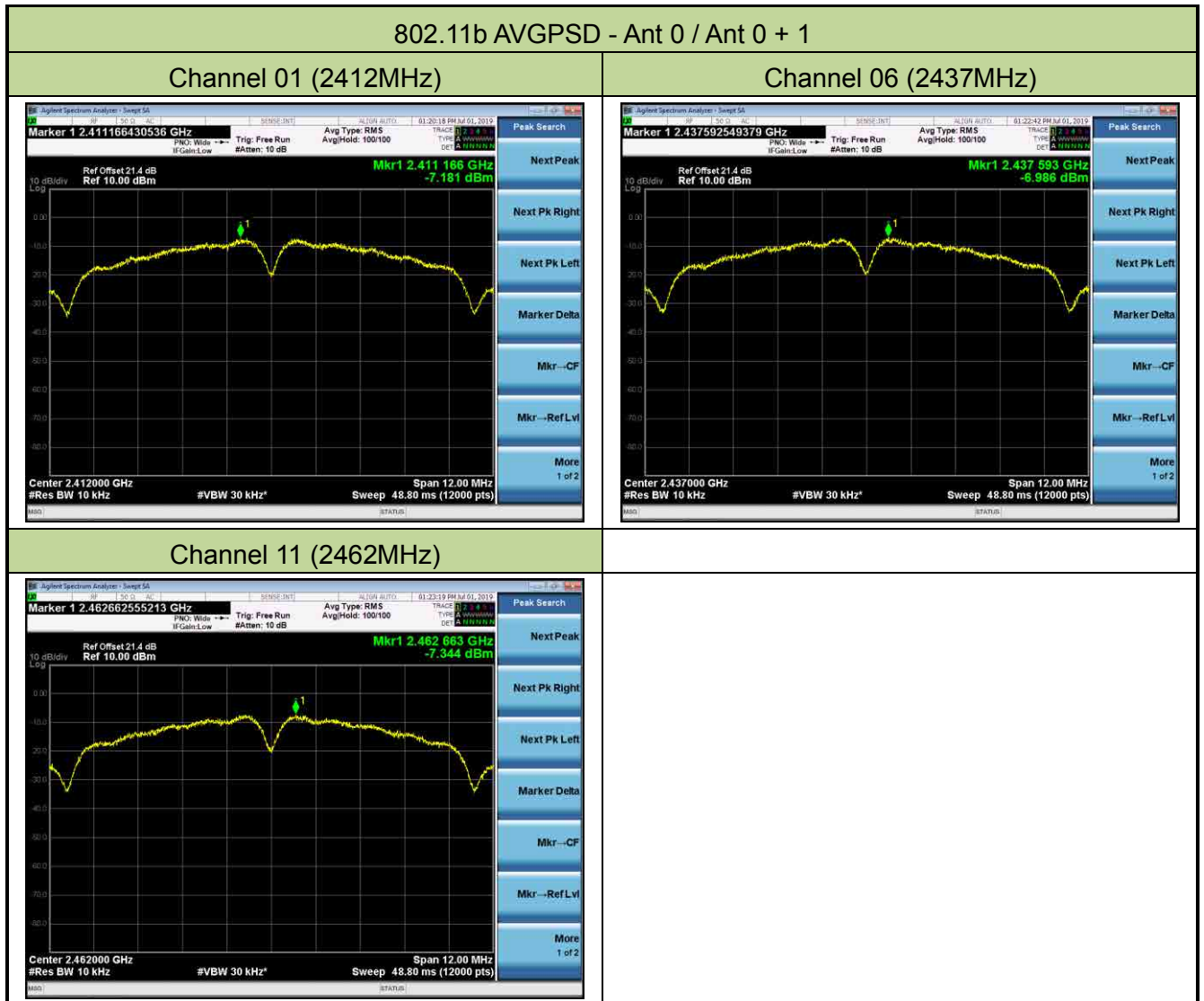
Channel 06 (2437MHz)



Channel 09 (2452MHz)

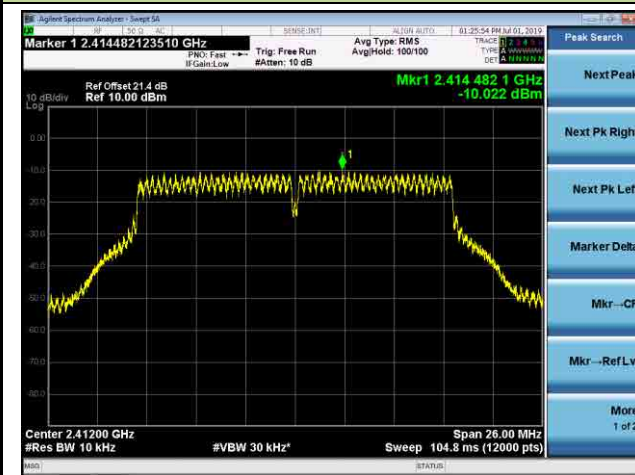


待測物名稱	Aruba 500 接入點	溫度	25°C
測試工程師	Kevin Ker	濕度	54%
Test Mode	Beam-Forming Mode		

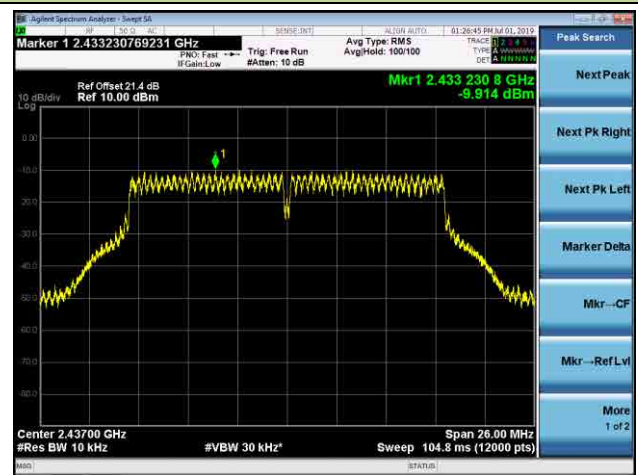


802.11g AVGPSPD - Ant 0 / Ant 0 + 1

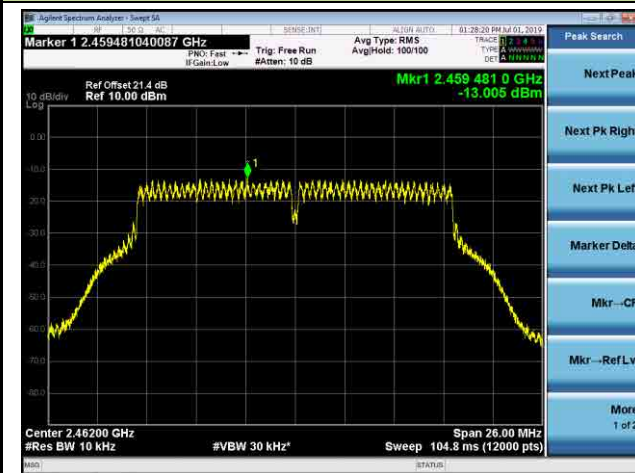
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

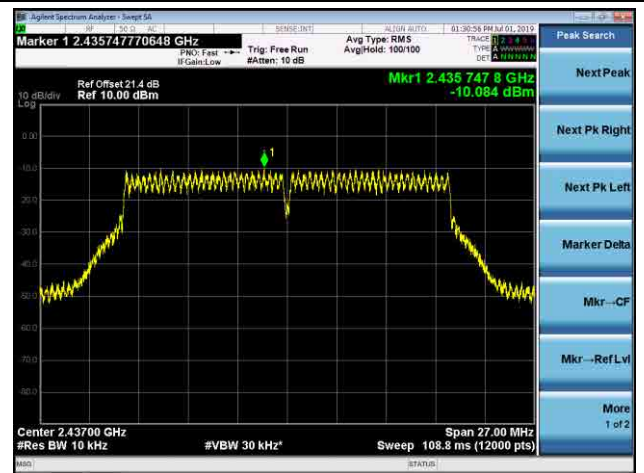


802.11n-HT20 AVGPSPD - Ant 0 / Ant 0 + 1

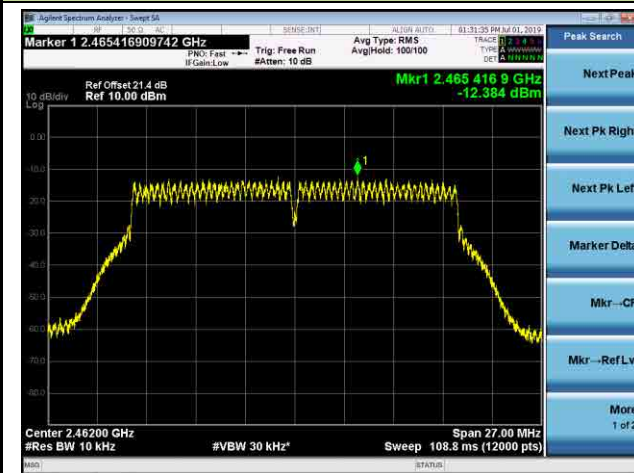
Channel 01 (2412MHz)



Channel 06 (2437MHz)

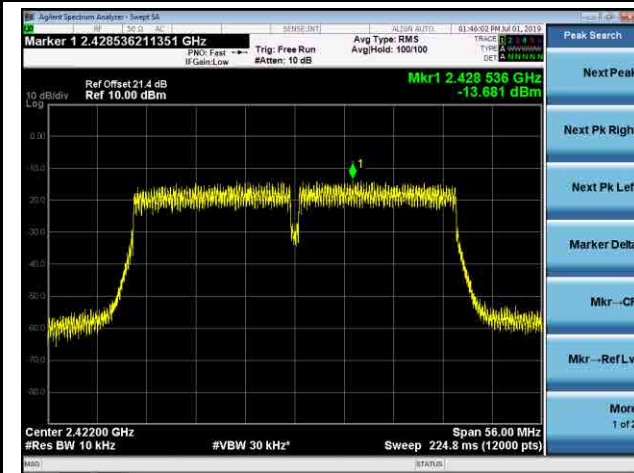


Channel 11 (2462MHz)

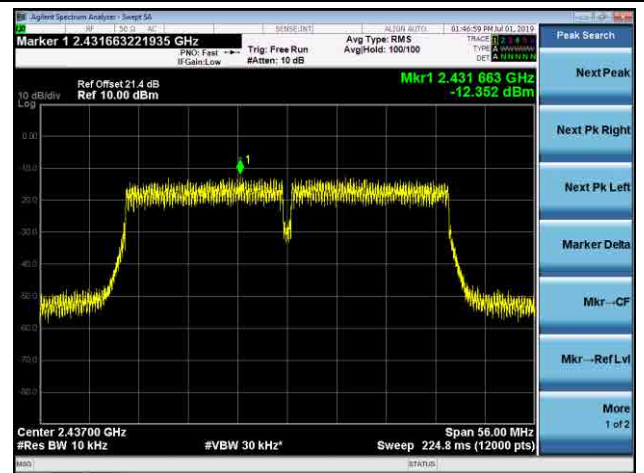


802.11n-HT40 AVGPDS - Ant 0 / Ant 0 + 1

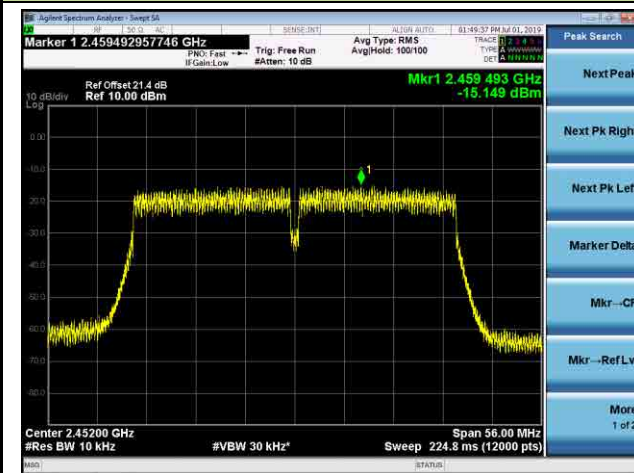
Channel 03 (2422MHz)



Channel 06 (2437MHz)

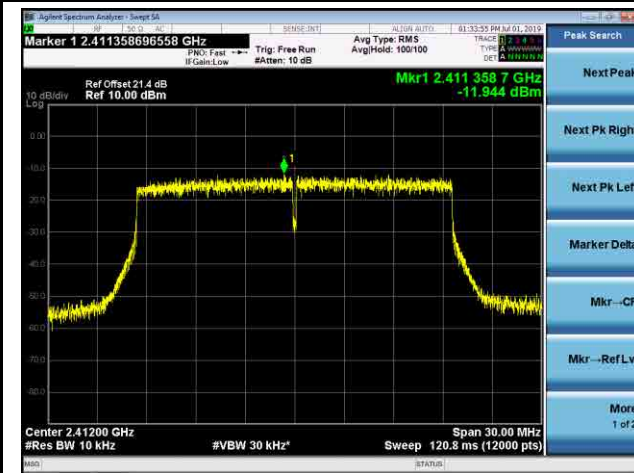


Channel 09 (2452MHz)

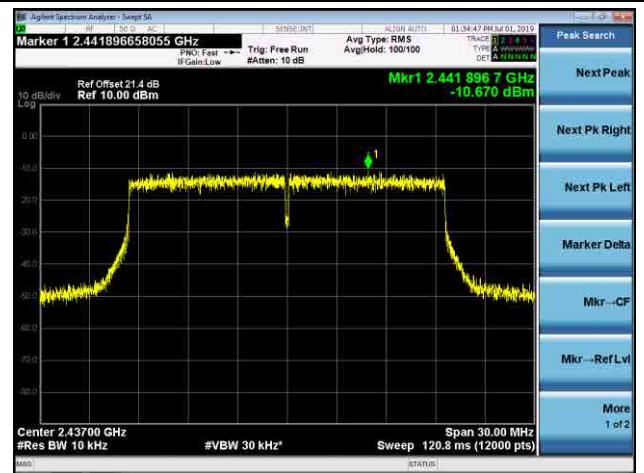


802.11ax-HE20 AVGPSPD - Ant 0 / Ant 0 + 1

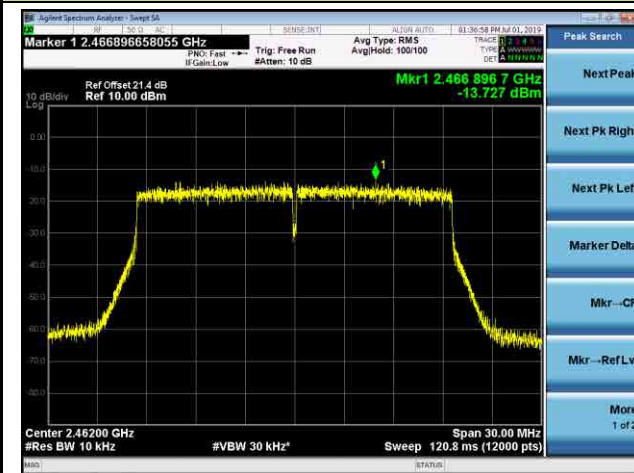
Channel 01 (2412MHz)



Channel 06 (2437MHz)

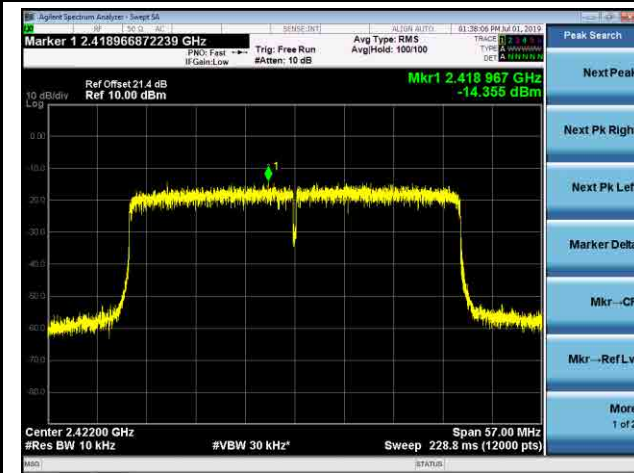


Channel 11 (2462MHz)

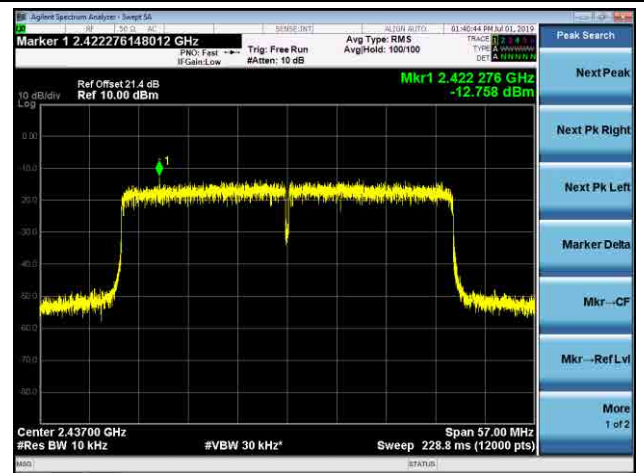


802.11ax-HE40 AVGPSPD - Ant 0 / Ant 0 + 1

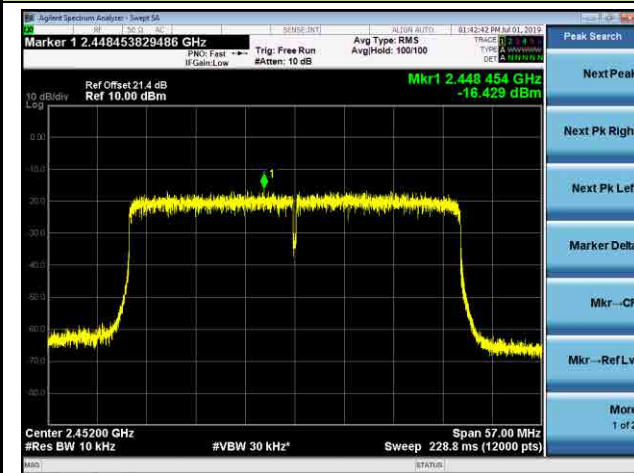
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b AVGPDS - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)

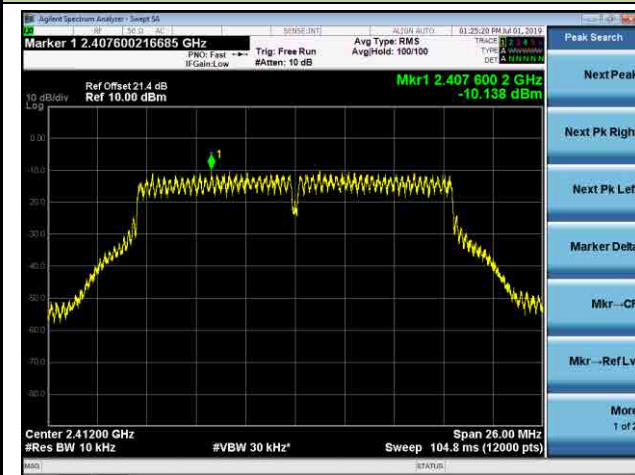


Channel 11 (2462MHz)

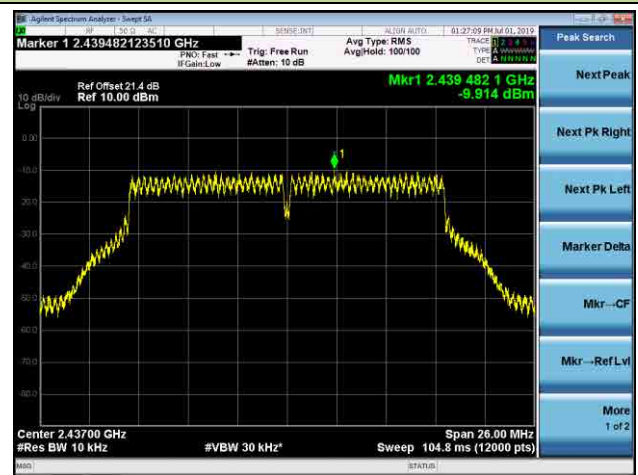


802.11g AVGPSPD - Ant 1 / Ant 0 + 1

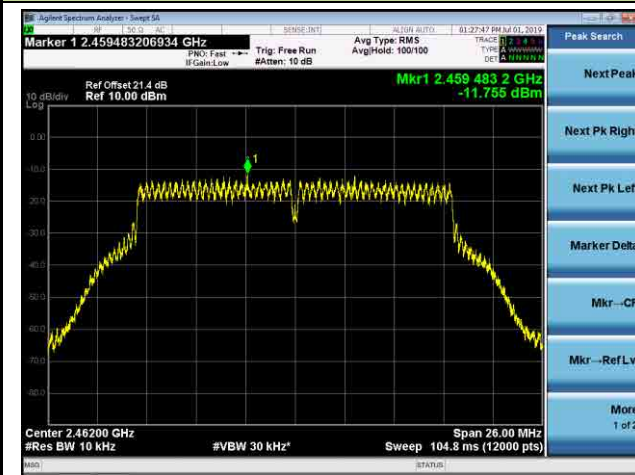
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

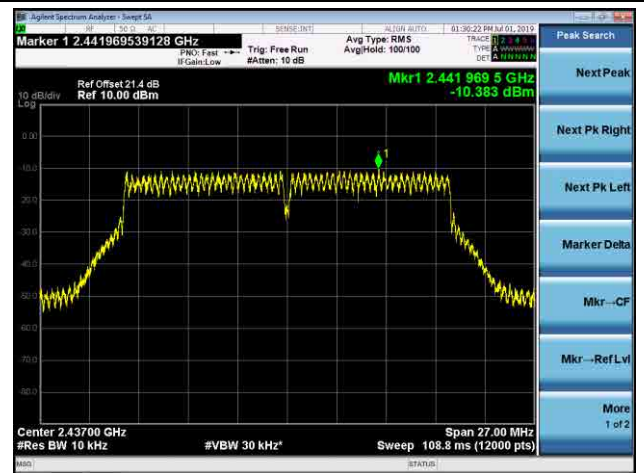


802.11n-HT20 AVGPSPD - Ant 1 / Ant 0 + 1

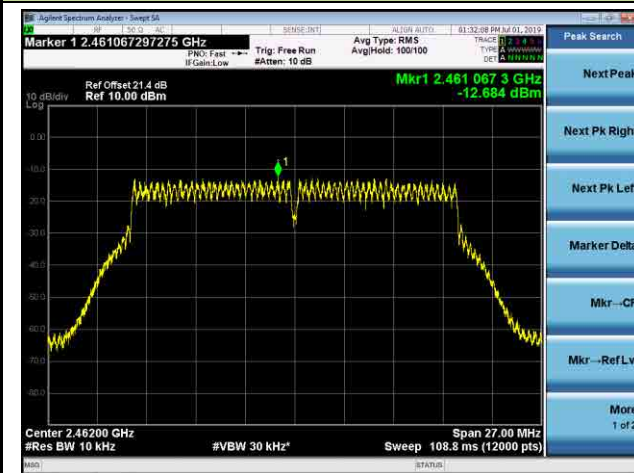
Channel 01 (2412MHz)



Channel 06 (2437MHz)

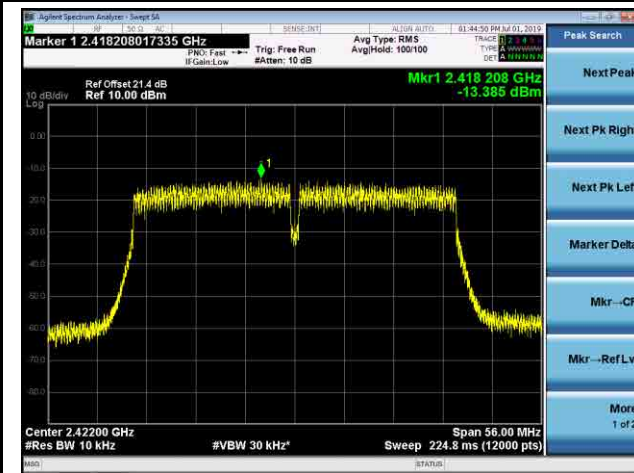


Channel 11 (2462MHz)



802.11n-HT40 AVGPSPD - Ant 1 / Ant 0 + 1

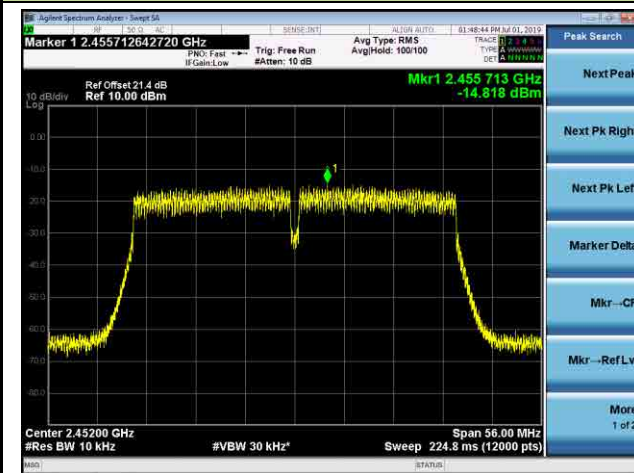
Channel 03 (2422MHz)



Channel 06 (2437MHz)

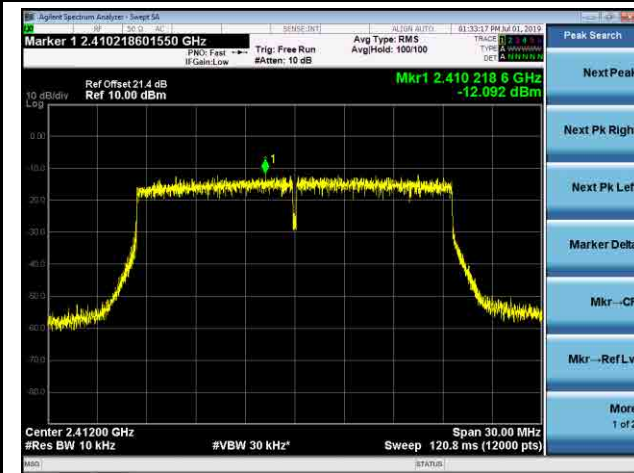


Channel 09 (2452MHz)

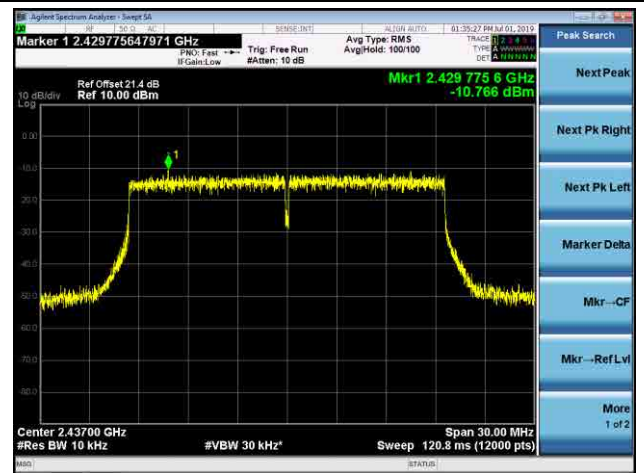


802.11ax-HE20 AVGPSPD - Ant 1 / Ant 0 + 1

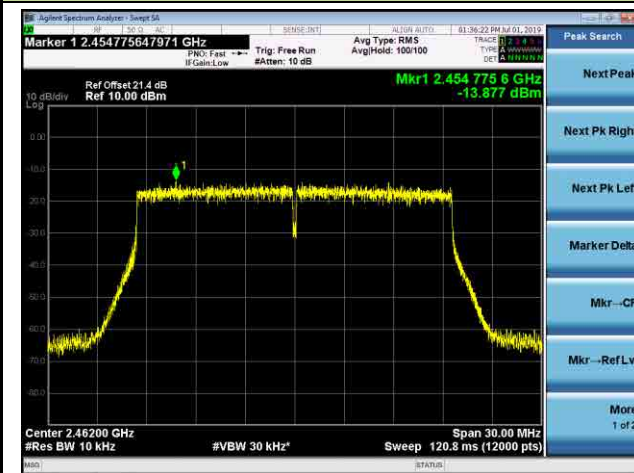
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11ax-HE40 AVGPSPD - Ant 1 / Ant 0 + 1

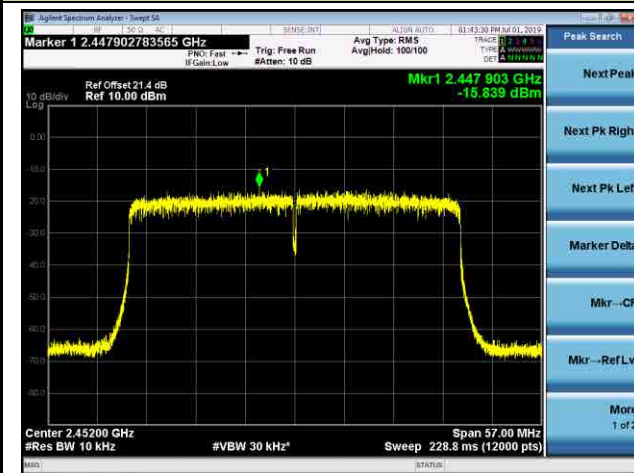
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



The End