



Non-beamforming mode

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	8.5M	12.789M	12M8G1D	7.55M	12.489M
802.11g_Nss1,(6Mbps)_4TX	16.325M	16.998M	17M0D1D	15.675M	16.58M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.675M	19.165M	19M2D1D	16.45M	18.866M
802.11ax HEW40_Nss1,(MCS0)_4TX	37M	37.731M	37M7D1D	33.75M	37.531M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
 Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	8.05M	12.789M	8.025M	12.639M	8.5M	12.669M	8.025M	12.684M
2437MHz	Pass	500k	8.05M	12.744M	7.55M	12.639M	8.05M	12.729M	8.025M	12.669M
2462MHz	Pass	500k	8.05M	12.624M	8.05M	12.654M	8.025M	12.519M	7.55M	12.489M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16M	16.756M	16.275M	16.646M	16.3M	16.646M	16.275M	16.58M
2437MHz	Pass	500k	16.275M	16.866M	16.325M	16.8M	15.675M	16.998M	16.275M	16.888M
2462MHz	Pass	500k	15.775M	16.646M	16.3M	16.646M	16.275M	16.646M	16.275M	16.624M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.5M	18.891M	18.275M	18.866M	18.675M	18.866M	18.25M	18.866M
2437MHz	Pass	500k	18.325M	19.09M	17.9M	19.09M	17.4M	19.165M	18.575M	19.115M
2462MHz	Pass	500k	17.325M	18.991M	18.625M	19.015M	18.55M	18.991M	16.45M	18.941M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	34.05M	37.581M	33.75M	37.581M	35.05M	37.581M	35.05M	37.581M
2437MHz	Pass	500k	35.4M	37.731M	35.1M	37.731M	33.85M	37.731M	36.35M	37.731M
2452MHz	Pass	500k	35.65M	37.731M	37M	37.631M	36.35M	37.681M	35.1M	37.531M

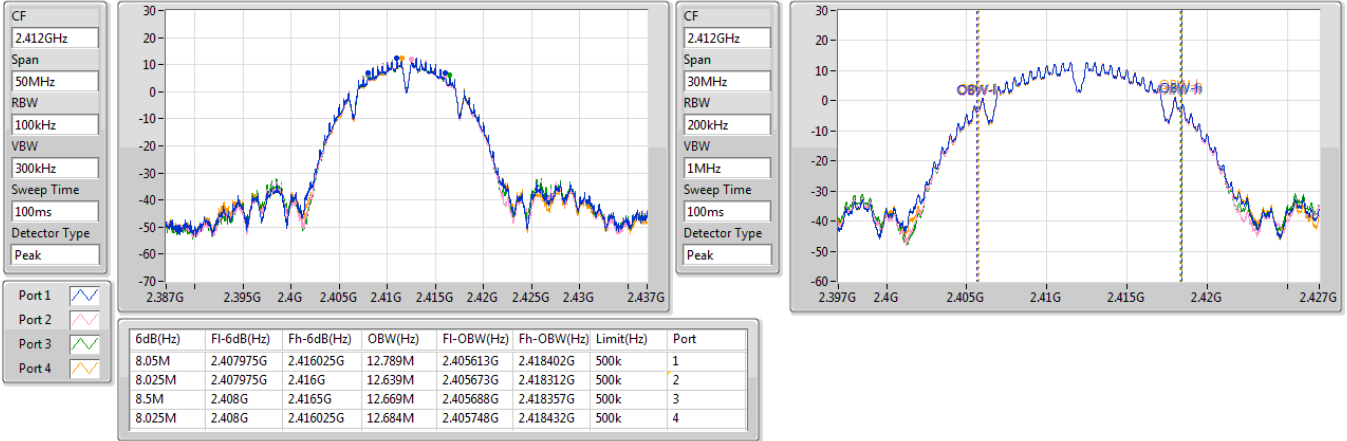
Port X-N dB = Port X 6dB down bandwidth;  
 Port X-OBW = Port X 99% occupied bandwidth



2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_4TX

EBW

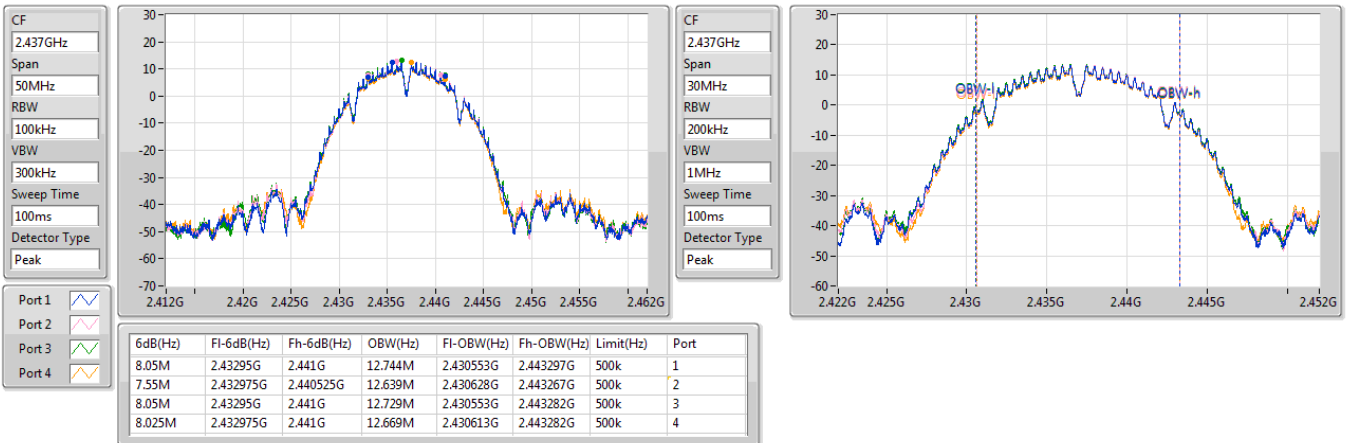
2412MHz



2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_4TX

EBW

2437MHz

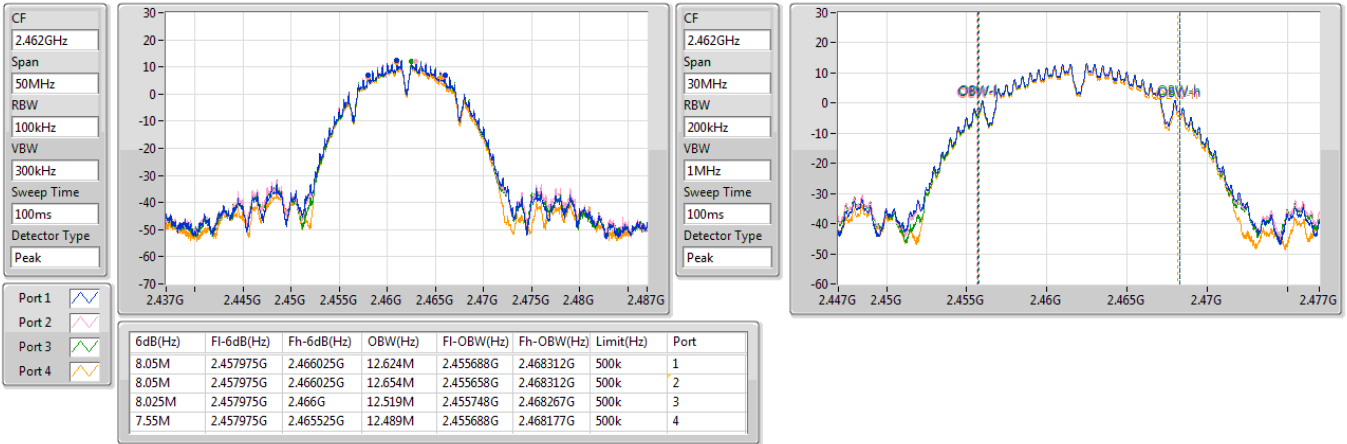




2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_4TX

EBW

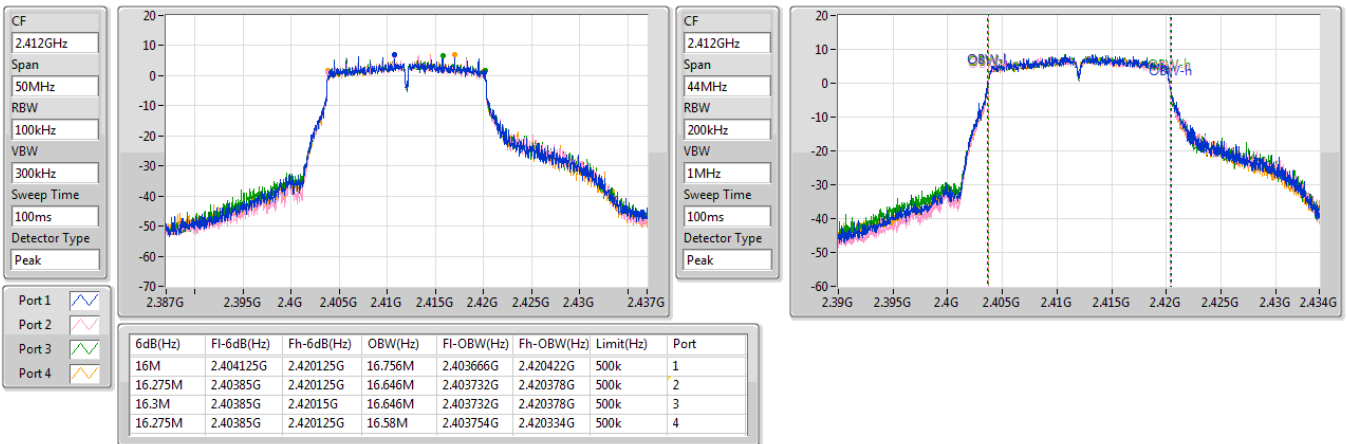
2462MHz



2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_4TX

EBW

2412MHz

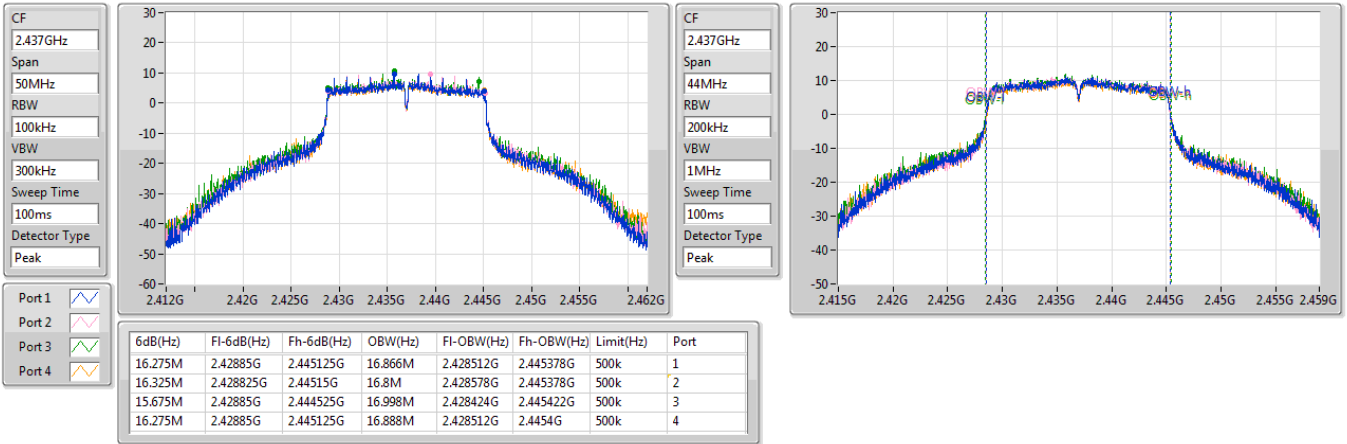




2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_4TX

EBW

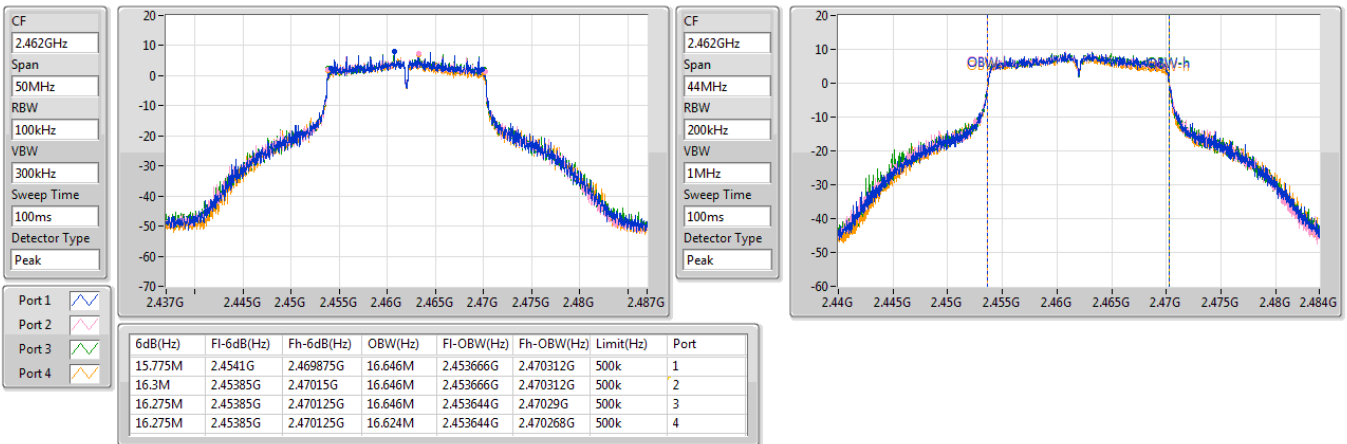
2437MHz



2.4-2.4835GHz\_802.11g\_Nss1,(6Mbps)\_4TX

EBW

2462MHz

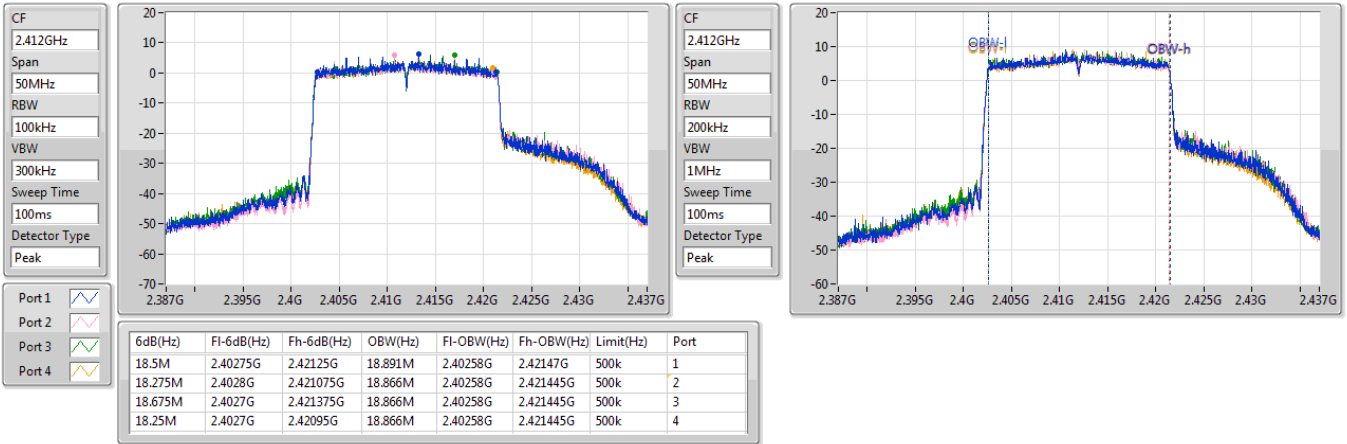




2.4-2.4835GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

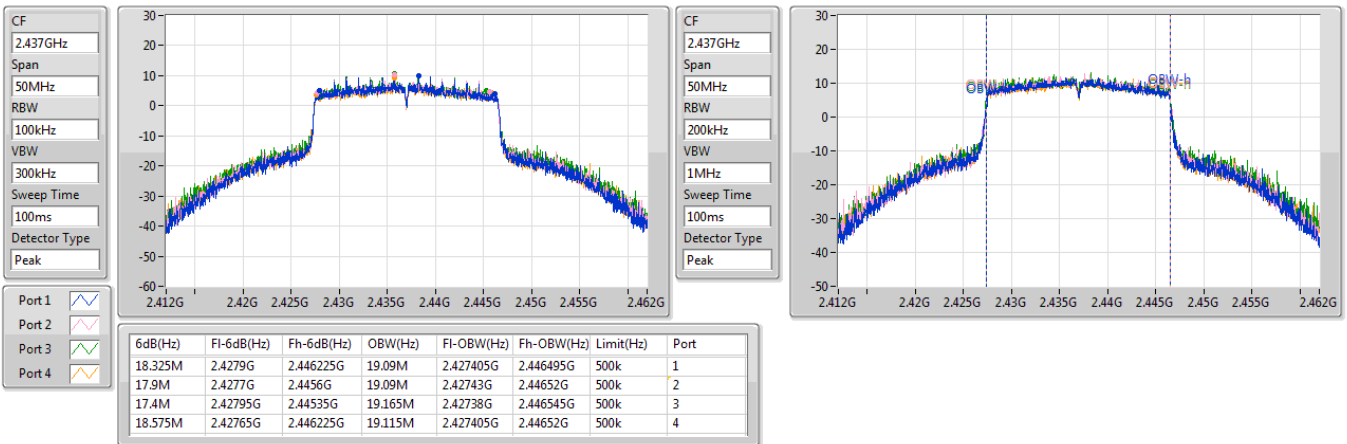
2412MHz



2.4-2.4835GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

2437MHz



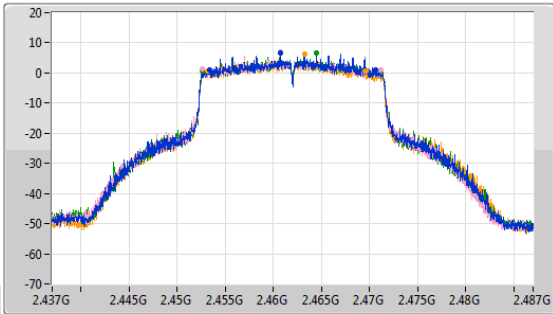


2.4-2.4835GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

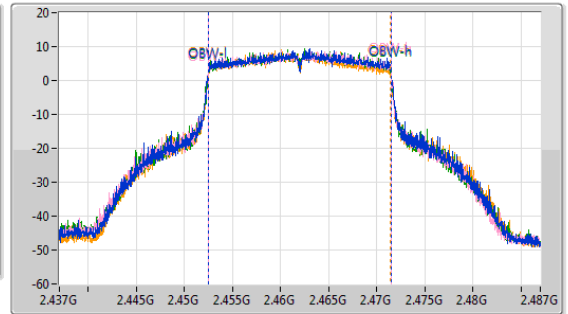
EBW

2462MHz

CF: 2.462GHz  
 Span: 50MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.462GHz  
 Span: 50MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



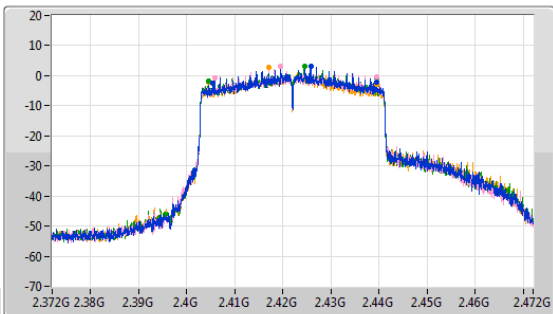
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.325M	2.45335G	2.470675G	18.991M	2.45248G	2.47147G	500k	1
18.625M	2.4526G	2.471225G	19.015M	2.452455G	2.47147G	500k	2
18.55M	2.45265G	2.4712G	18.991M	2.45248G	2.47147G	500k	3
16.45M	2.453175G	2.469625G	18.941M	2.452505G	2.471445G	500k	4

2.4-2.4835GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

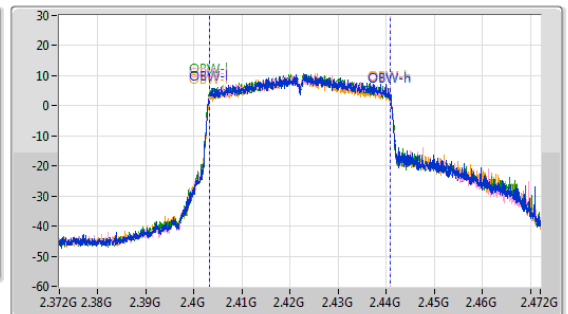
EBW

2422MHz

CF: 2.422GHz  
 Span: 100MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.422GHz  
 Span: 100MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.05M	2.4055G	2.43955G	37.581M	2.403259G	2.440841G	500k	1
33.75M	2.40575G	2.4395G	37.581M	2.403259G	2.440841G	500k	2
35.05M	2.40445G	2.4395G	37.581M	2.403259G	2.440841G	500k	3
35.05M	2.4045G	2.43955G	37.581M	2.403259G	2.440841G	500k	4

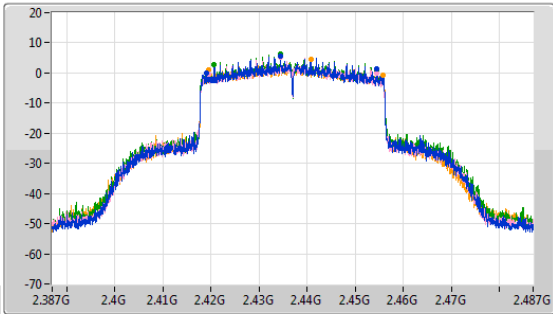


2.4-2.4835GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

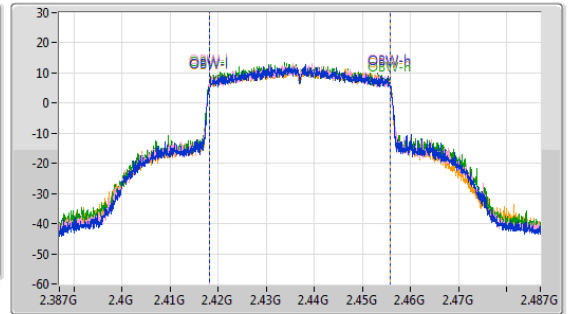
EBW

2437MHz

CF: 2.437GHz  
 Span: 100MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.437GHz  
 Span: 100MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



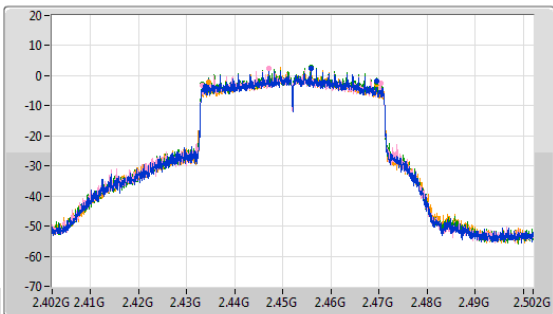
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.4M	2.4191G	2.4545G	37.731M	2.418109G	2.455841G	500k	1
35.1M	2.41945G	2.45455G	37.731M	2.418109G	2.455841G	500k	2
33.85M	2.4207G	2.45455G	37.731M	2.418109G	2.455841G	500k	3
36.35M	2.41945G	2.4558G	37.731M	2.418109G	2.455841G	500k	4

2.4-2.4835GHz\_802.11ax HEW40\_Nss1,(MCS0)\_4TX

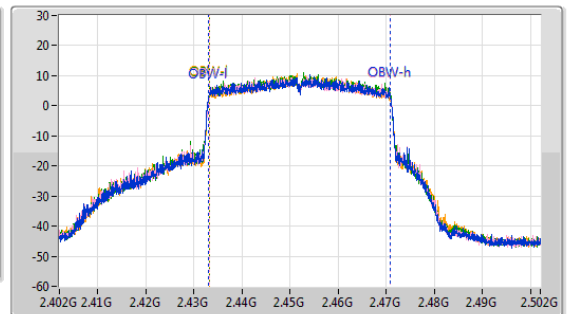
EBW

2452MHz

CF: 2.452GHz  
 Span: 100MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.452GHz  
 Span: 100MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.65M	2.43385G	2.4695G	37.731M	2.433059G	2.470791G	500k	1
37M	2.43325G	2.47025G	37.631M	2.433159G	2.470791G	500k	2
36.35M	2.4332G	2.46955G	37.681M	2.433109G	2.470791G	500k	3
35.1M	2.43445G	2.46955G	37.531M	2.433159G	2.470691G	500k	4



**Beamforming mode**

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	19M	19.29M	19M3D1D	18.6M	18.891M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.95M	37.931M	37M9D1D	33.8M	37.331M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
 Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	19M	18.991M	18.85M	18.941M	18.95M	18.941M	18.8M	18.891M
2437MHz	Pass	500k	18.775M	19.29M	18.6M	19.19M	18.825M	19.215M	18.825M	19.165M
2462MHz	Pass	500k	18.9M	19.015M	18.675M	18.966M	18.8M	19.04M	18.875M	19.09M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.5M	37.831M	37.95M	37.931M	33.8M	37.331M	36.25M	37.631M
2437MHz	Pass	500k	37.9M	37.881M	37.05M	37.731M	36.6M	37.781M	37.9M	37.881M
2452MHz	Pass	500k	37.9M	37.931M	37.9M	37.881M	37.9M	37.931M	37.65M	37.731M

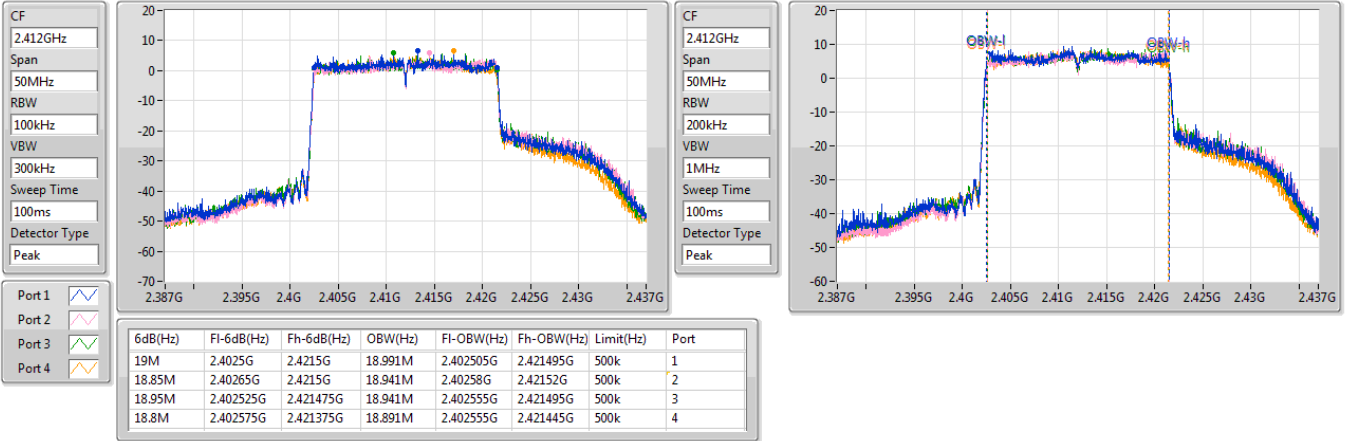
Port X-N dB = Port X 6dB down bandwidth;  
 Port X-OBW = Port X 99% occupied bandwidth



2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

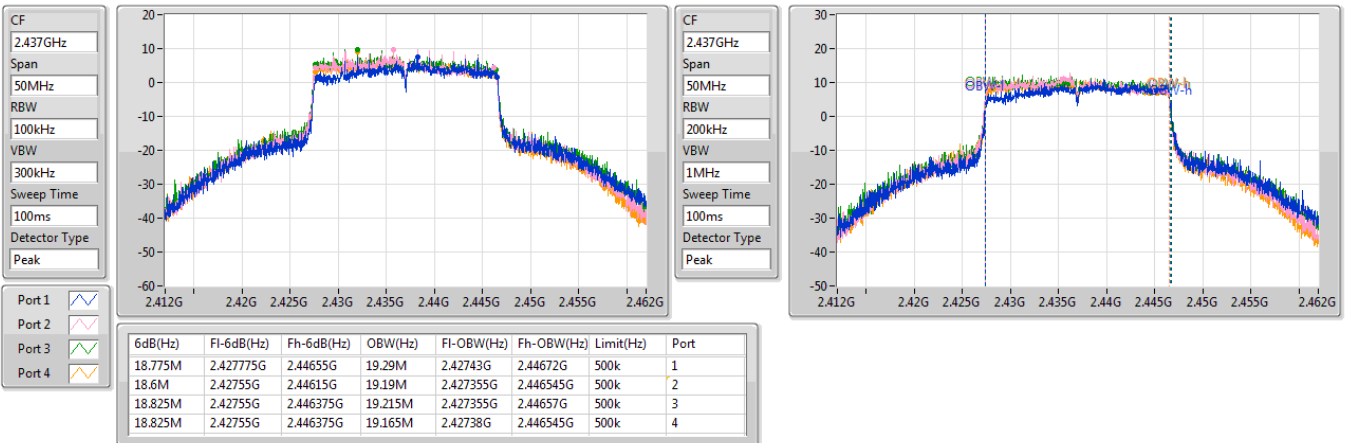
2412MHz



2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

EBW

2437MHz



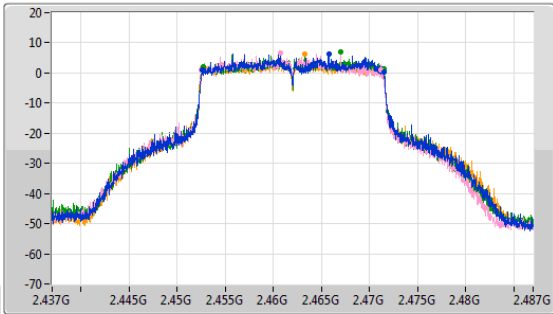


2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

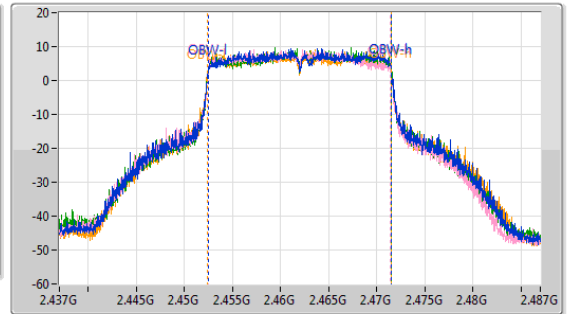
EBW

2462MHz

CF: 2.462GHz  
 Span: 50MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.462GHz  
 Span: 50MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



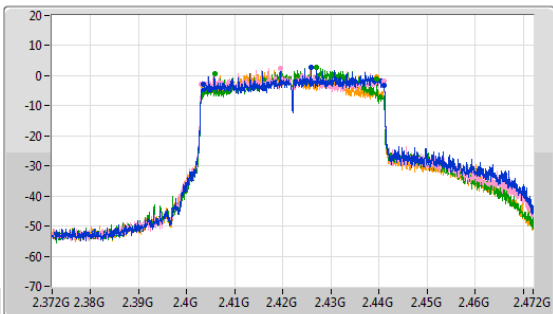
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.9M	2.4526G	2.4715G	19.015M	2.452505G	2.47152G	500k	1
18.675M	2.452525G	2.4712G	18.966M	2.45248G	2.471445G	500k	2
18.8M	2.452675G	2.471475G	19.04M	2.45248G	2.47152G	500k	3
18.875M	2.45255G	2.471425G	19.09M	2.45243G	2.47152G	500k	4

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

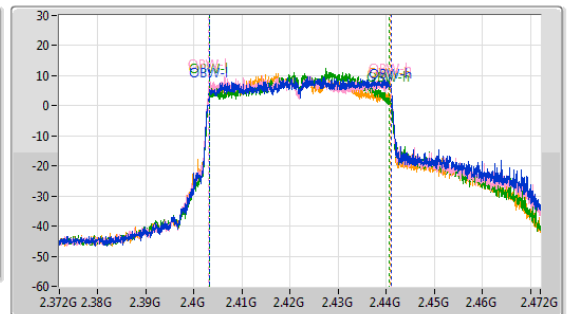
EBW

2422MHz

CF: 2.422GHz  
 Span: 100MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.422GHz  
 Span: 100MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.5M	2.4035G	2.441G	37.831M	2.403209G	2.44104G	500k	1
37.95M	2.40305G	2.441G	37.931M	2.403059G	2.440991G	500k	2
33.8M	2.40575G	2.43955G	37.331M	2.403309G	2.440641G	500k	3
36.25M	2.40325G	2.4395G	37.631M	2.403109G	2.440741G	500k	4

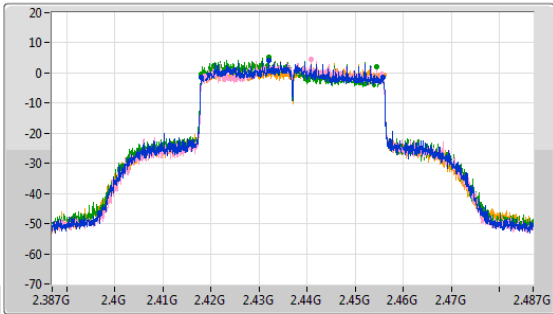


2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

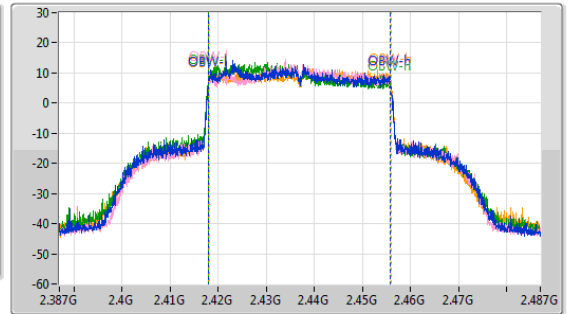
EBW

2437MHz

CF: 2.437GHz  
 Span: 100MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.437GHz  
 Span: 100MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Waveform icon]  
 Port 2: [Waveform icon]  
 Port 3: [Waveform icon]  
 Port 4: [Waveform icon]

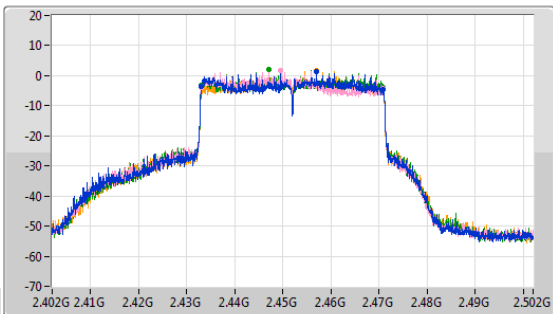
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.9M	2.41795G	2.45585G	37.881M	2.418009G	2.455891G	500k	1
37.05M	2.4186G	2.45565G	37.731M	2.418109G	2.455841G	500k	2
36.6M	2.41795G	2.45455G	37.781M	2.41796G	2.455741G	500k	3
37.9M	2.41805G	2.45595G	37.881M	2.418059G	2.455941G	500k	4

2.4-2.4835GHz\_802.11ax HEW40-BF\_Nss1,(MCS0)\_4TX

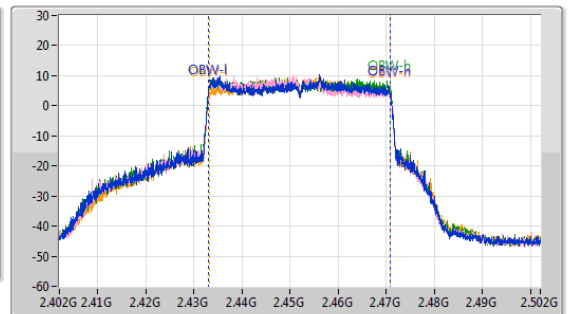
EBW

2452MHz

CF: 2.452GHz  
 Span: 100MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 2.452GHz  
 Span: 100MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Waveform icon]  
 Port 2: [Waveform icon]  
 Port 3: [Waveform icon]  
 Port 4: [Waveform icon]

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.9M	2.43295G	2.47085G	37.931M	2.43296G	2.470891G	500k	1
37.9M	2.4329G	2.4708G	37.881M	2.433009G	2.470891G	500k	2
37.9M	2.43295G	2.47085G	37.931M	2.43296G	2.470891G	500k	3
37.65M	2.43305G	2.4707G	37.731M	2.433109G	2.470841G	500k	4



Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	27.02	0.50350
802.11g_Nss1,(6Mbps)_4TX	26.53	0.44978
802.11ax HEW20_Nss1,(MCS0)_4TX	26.63	0.46026
802.11ax HEW40_Nss1,(MCS0)_4TX	24.42	0.27669

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	4.574	20.15	21.03	20.17	20.38	26.47	30.00	31.04	36.00
2437MHz	Pass	4.574	21.12	21.13	21.26	20.46	27.02	30.00	31.59	36.00
2462MHz	Pass	4.574	20.94	20.63	20.46	19.79	26.50	30.00	31.07	36.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	4.574	17.73	18.38	17.72	17.85	23.95	30.00	28.52	36.00
2437MHz	Pass	4.574	20.62	20.56	20.81	20.02	26.53	30.00	31.10	36.00
2462MHz	Pass	4.574	18.46	18.03	18.06	17.73	24.10	30.00	28.67	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	4.574	16.78	17.46	16.84	16.89	23.02	30.00	27.59	36.00
2437MHz	Pass	4.574	20.72	20.71	20.83	20.15	26.63	30.00	31.20	36.00
2462MHz	Pass	4.574	17.58	17.13	17.18	16.77	23.20	30.00	27.77	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	4.574	15.78	16.33	15.68	15.42	21.84	30.00	26.41	36.00
2437MHz	Pass	4.574	18.18	18.76	18.48	18.14	24.42	30.00	28.99	36.00
2452MHz	Pass	4.574	15.38	15.82	15.52	15.61	21.61	30.00	26.18	36.00

DG = Directional Gain; Port X = Port X output power

Note : Conducted average output power is for reference



**Beamforming mode**

**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.04	0.40179
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.95	0.24831

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	9.715	16.75	17.22	16.85	16.91	22.96	26.29	32.67	36.00
2437MHz	Pass	9.715	19.66	20.54	20.05	19.76	26.04	26.29	35.75	36.00
2462MHz	Pass	9.715	17.39	16.71	16.65	16.77	22.91	26.29	32.62	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	9.715	15.63	16.02	15.72	15.42	21.72	26.29	31.43	36.00
2437MHz	Pass	9.715	17.76	17.85	18.35	17.72	23.95	26.29	33.66	36.00
2452MHz	Pass	9.715	14.74	15.51	15.12	15.55	21.26	26.29	30.98	36.00

DG = Directional Gain; Port X = Port X output power  
 Note : Conducted average output power is for reference

**Remark:**

Directional gain =  $10 \times \log((10^{3.618/20} + 10^{3.414/20} + 10^{3.099/20} + 10^{4.574/20})^2/4) = 9.71 \text{ dBi} > 6\text{dBi}$ , so the limit shall be reduced to 30 dBm – (9.715dBi – 6dBi) = 26.29 dBm



Non-beamforming mode

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	-3.71
802.11g_Nss1,(6Mbps)_4TX	-6.23
802.11ax HEW20_Nss1,(MCS0)_4TX	-6.29
802.11ax HEW40_Nss1,(MCS0)_4TX	-10.65

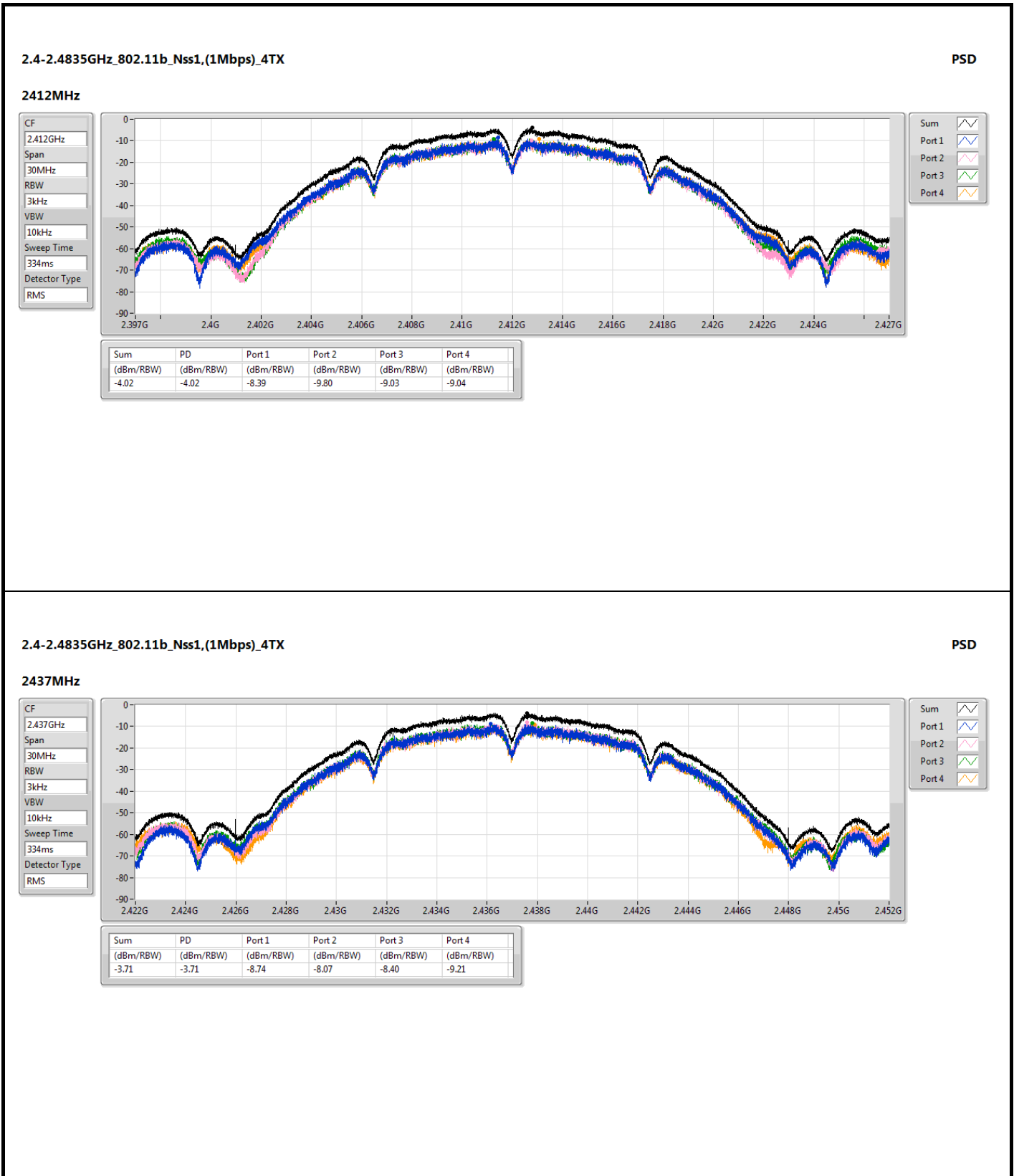
RBW = 3kHz;

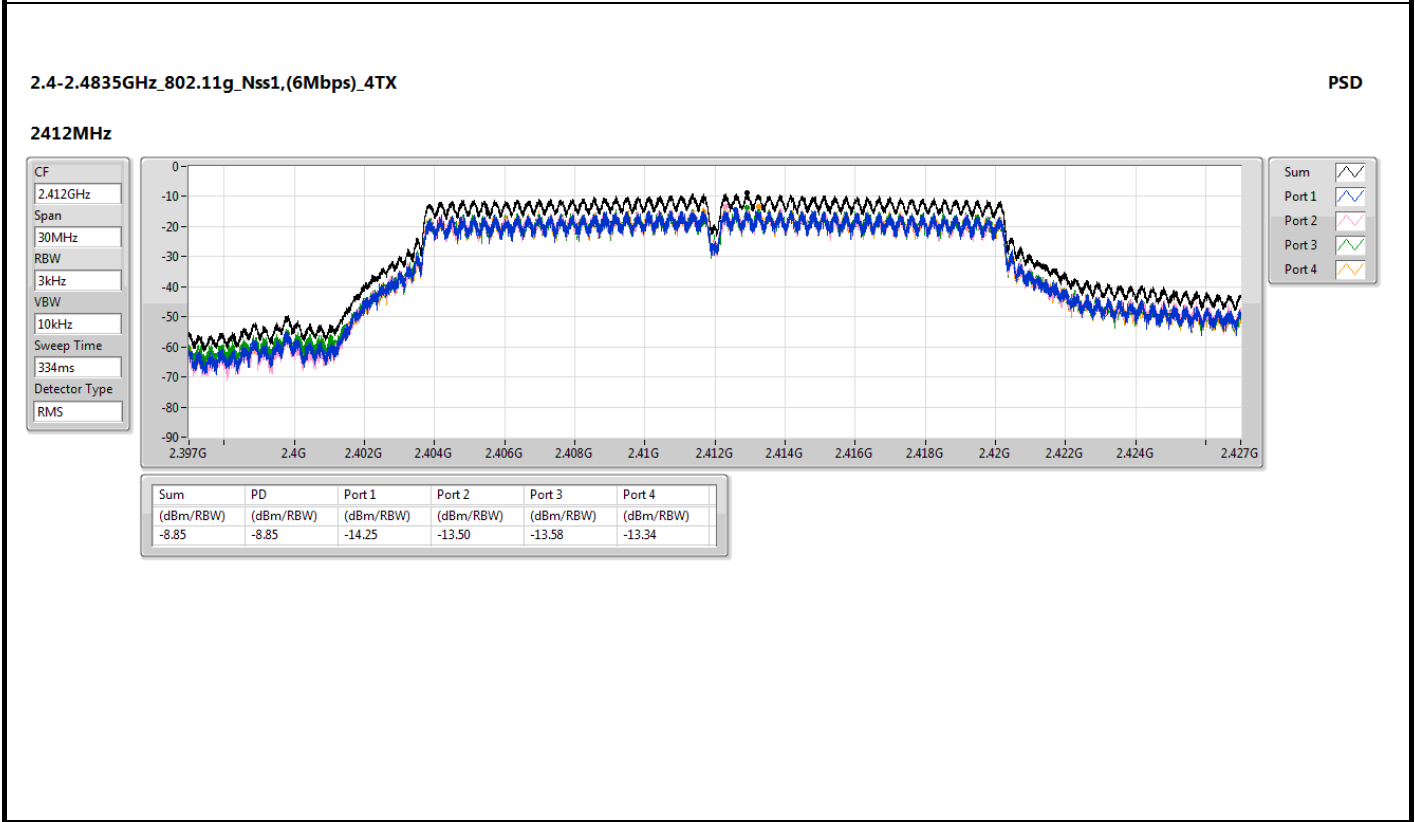
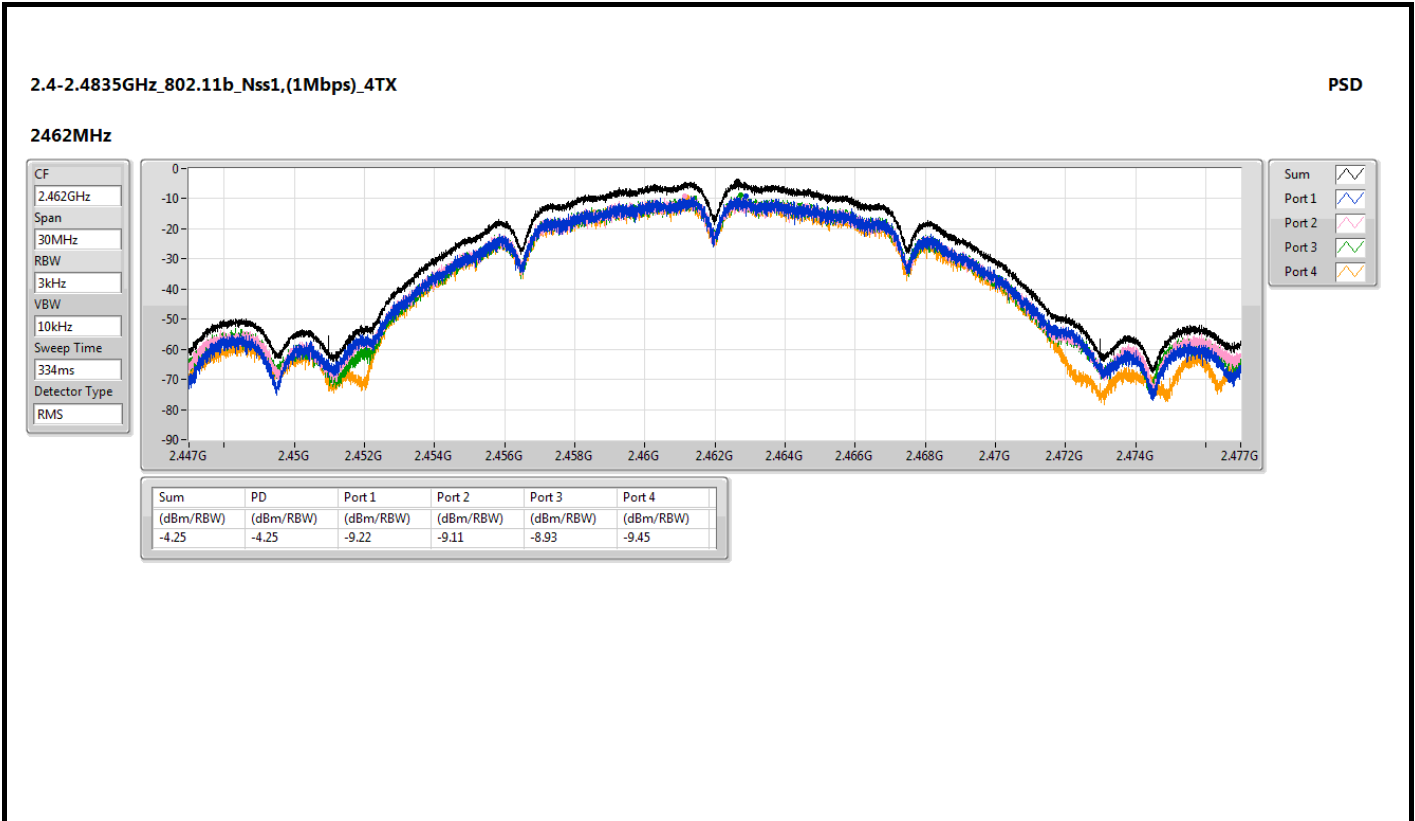
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.715	-8.39	-9.80	-9.03	-9.04	-4.02	4.29
2437MHz	Pass	9.715	-8.74	-8.07	-8.40	-9.21	-3.71	4.29
2462MHz	Pass	9.715	-9.22	-9.11	-8.93	-9.45	-4.25	4.29
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.715	-14.25	-13.50	-13.58	-13.34	-8.85	4.29
2437MHz	Pass	9.715	-11.38	-10.62	-10.47	-11.06	-6.23	4.29
2462MHz	Pass	9.715	-12.07	-13.44	-12.98	-13.71	-7.98	4.29
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.715	-16.18	-14.68	-15.67	-15.90	-10.36	4.29
2437MHz	Pass	9.715	-11.37	-12.14	-11.78	-11.45	-6.29	4.29
2462MHz	Pass	9.715	-15.37	-14.14	-15.52	-14.23	-9.18	4.29
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.715	-19.41	-18.10	-18.13	-19.05	-13.51	4.29
2437MHz	Pass	9.715	-16.73	-16.53	-16.15	-15.71	-10.65	4.29
2452MHz	Pass	9.715	-18.13	-18.87	-18.62	-18.49	-13.12	4.29

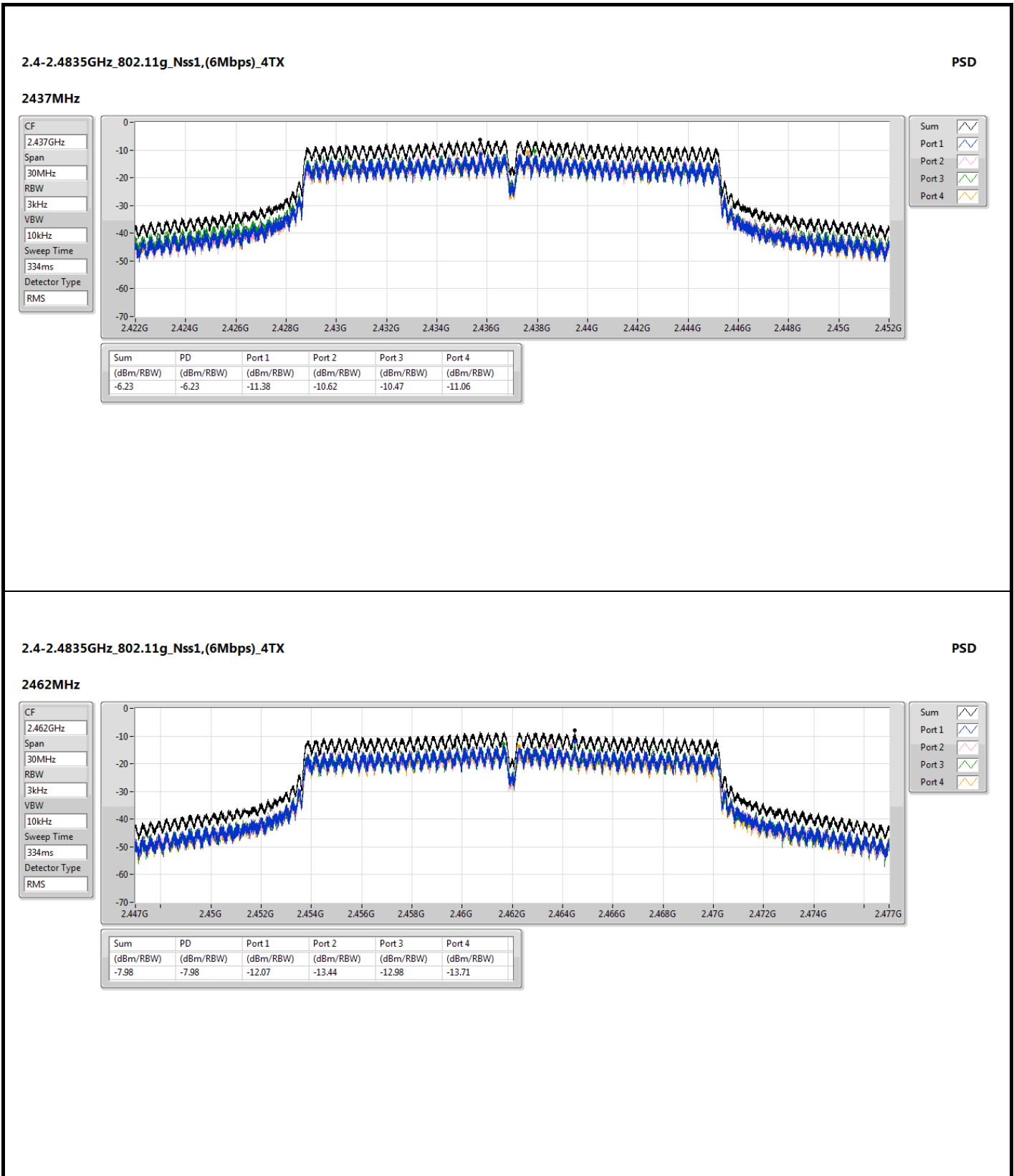
DG = Directional Gain; RBW = 3kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density; Directional gain =  $10 * \log((10^{3.618/20} + 10^{3.414/20} + 10^{3.099/20} + 10^{4.574/20})^2 / 4) = 9.71 \text{ dBi}$  >6 dBi, limit shall be reduced to 8 dBm – (9.71 dBi – 6 dBi) = 4.29 dBm









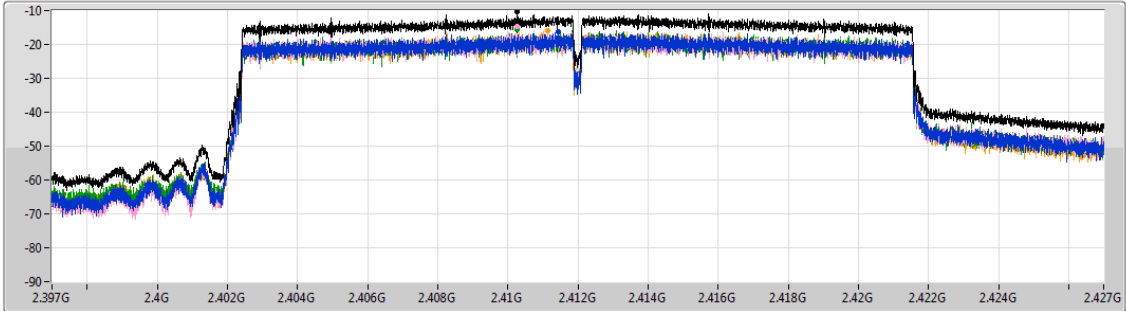


2.4-2.4835GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

2412MHz

CF  
2.412GHz  
Span  
30MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
334ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

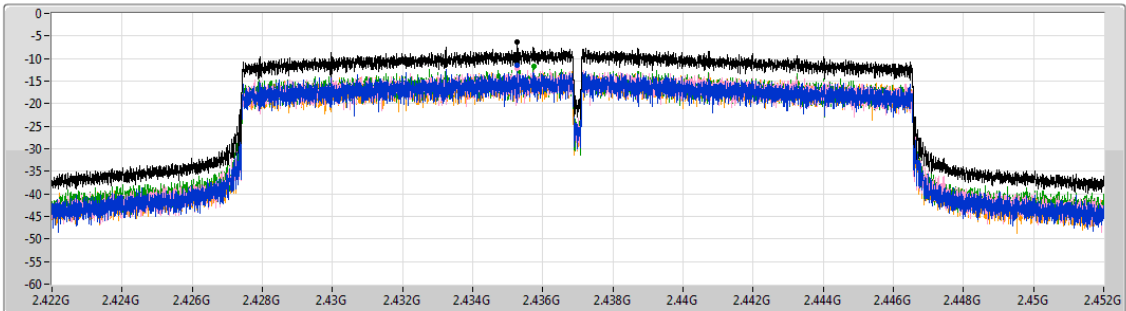
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.36	-10.36	-16.18	-14.68	-15.67	-15.90

2.4-2.4835GHz\_802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

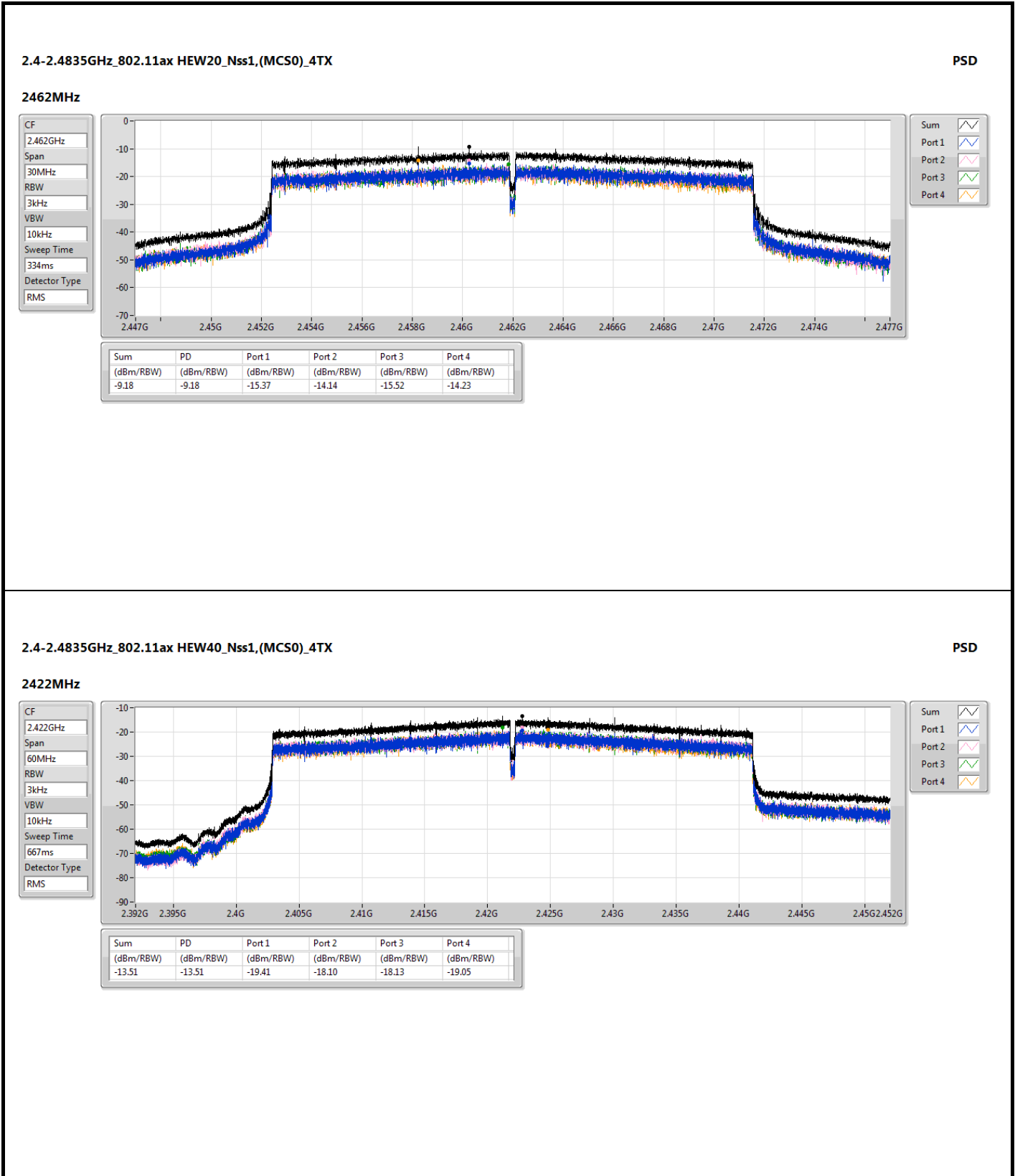
2437MHz

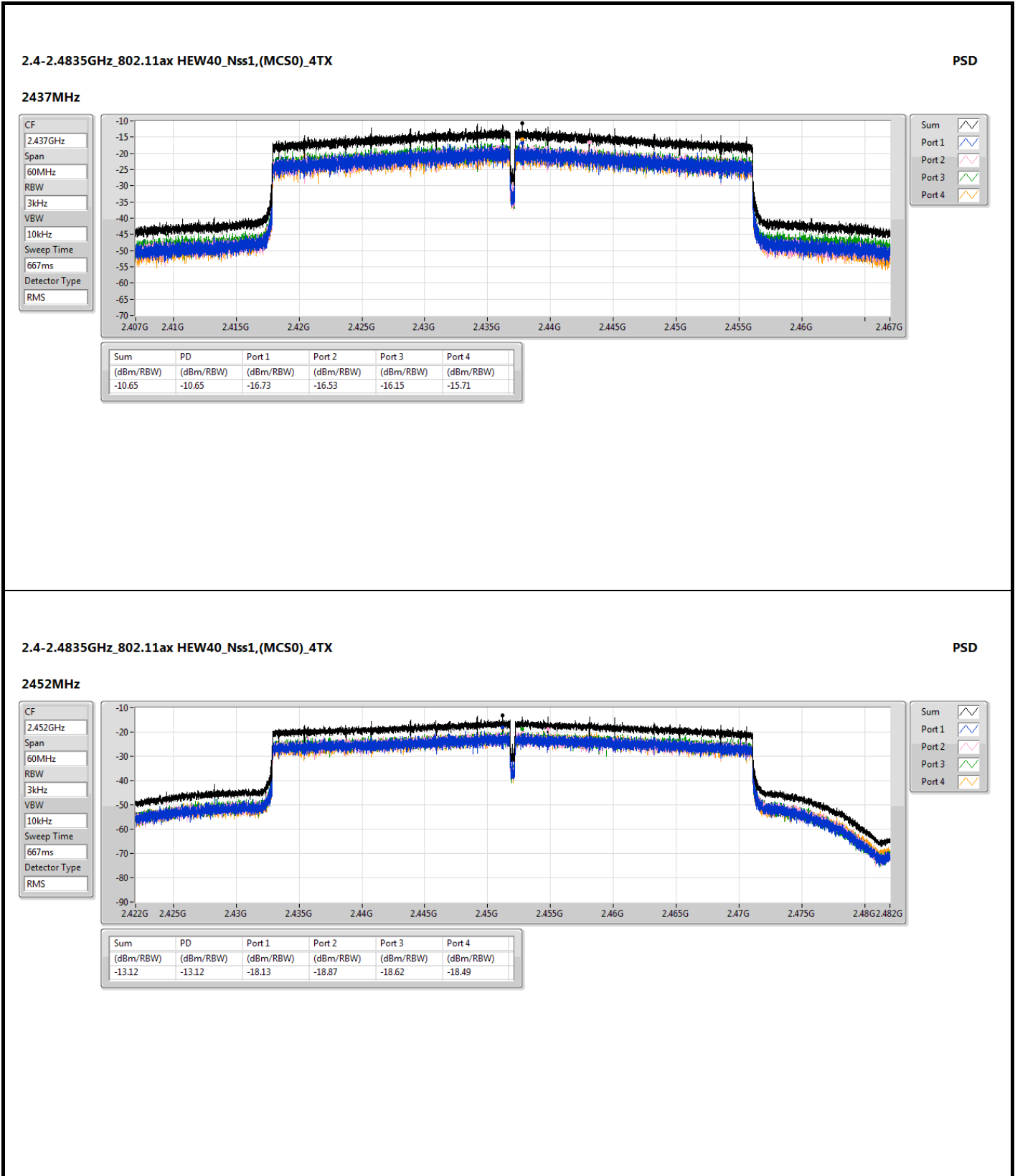
CF  
2.437GHz  
Span  
30MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
334ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.29	-6.29	-11.37	-12.14	-11.78	-11.45







Beamforming mode

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-8.11
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-12.00

RBW = 3kHz;

Result

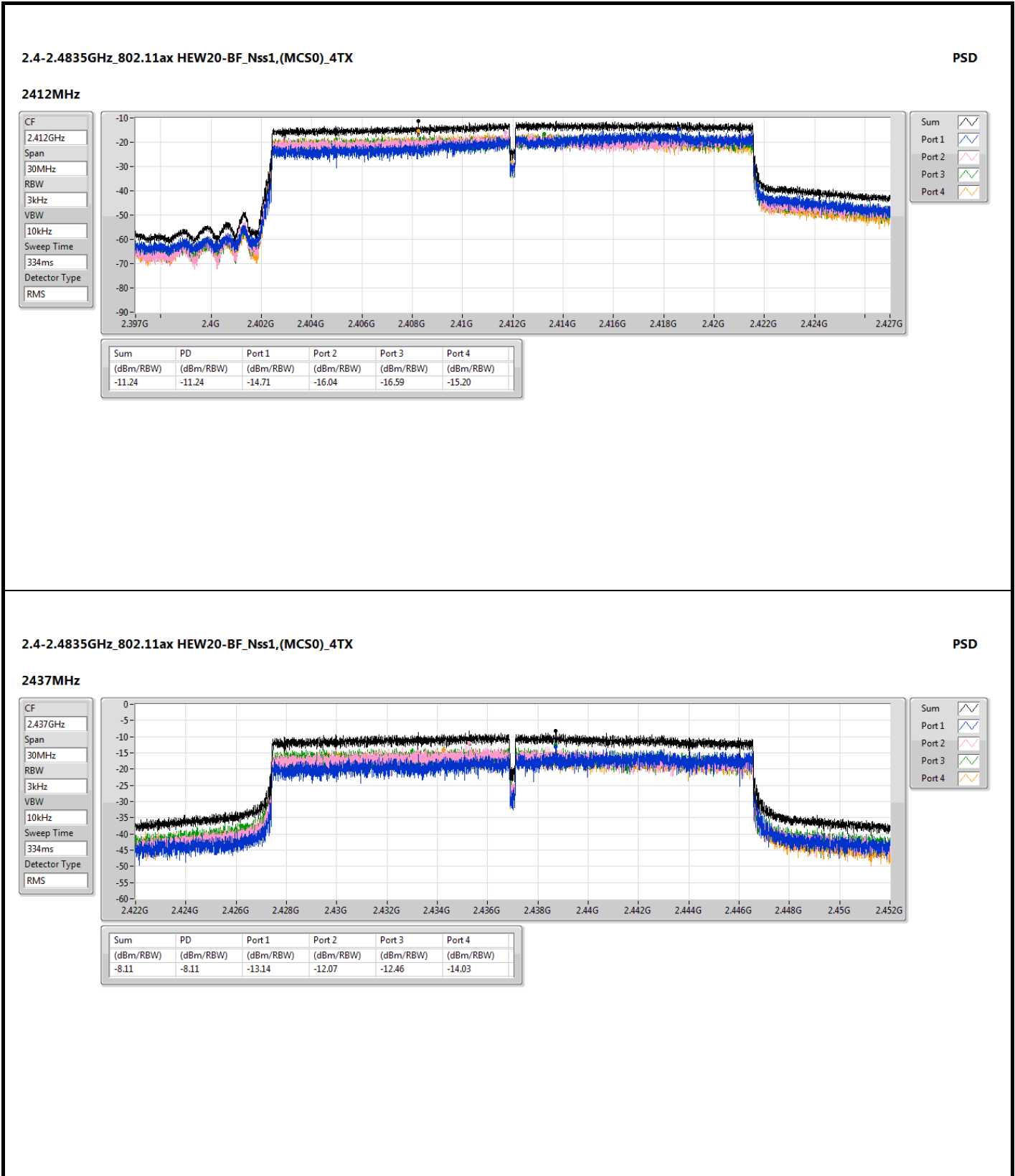
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.715	-14.71	-16.04	-16.59	-15.20	-11.24	4.29
2437MHz	Pass	9.715	-13.14	-12.07	-12.46	-14.03	-8.11	4.29
2462MHz	Pass	9.715	-14.81	-15.32	-14.73	-16.18	-10.37	4.29
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.715	-19.93	-19.57	-17.69	-19.43	-13.97	4.29
2437MHz	Pass	9.715	-17.02	-16.53	-15.23	-18.54	-12.00	4.29
2452MHz	Pass	9.715	-17.95	-17.57	-20.48	-19.95	-15.17	4.29

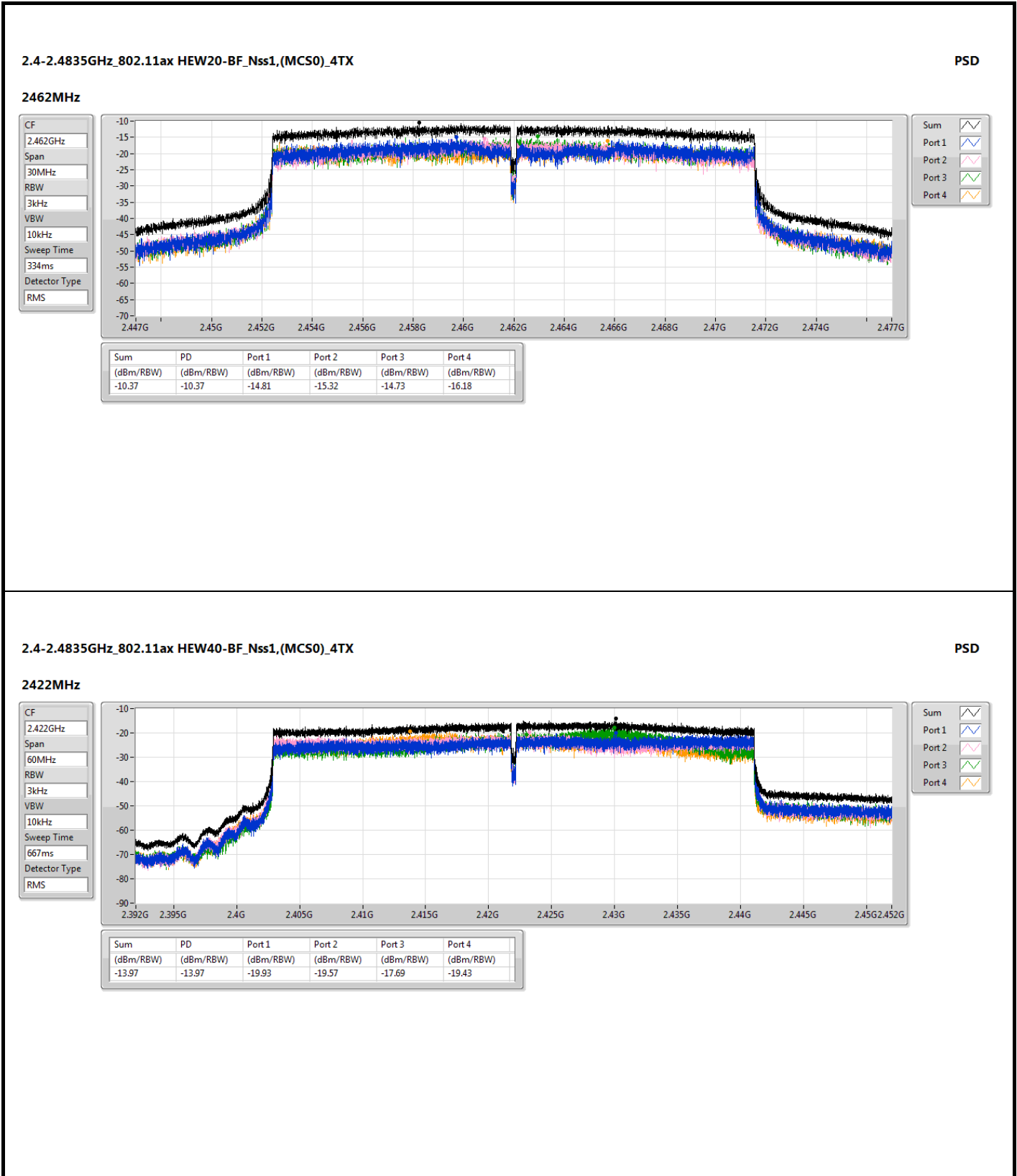
DG = Directional Gain; RBW = 3kHz;

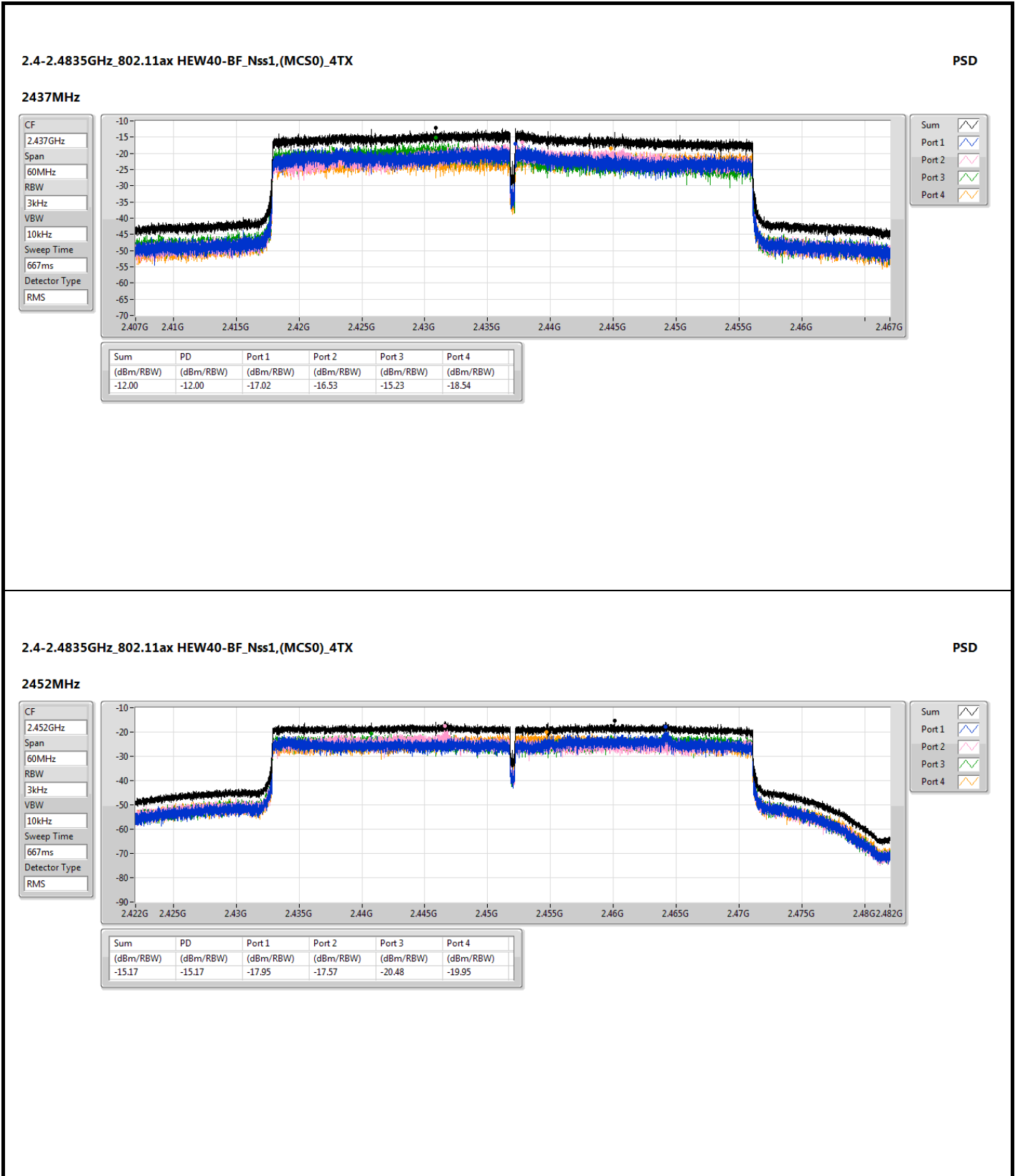
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

Remark:

Directional gain =  $10 \times \log((10^{3.618/20} + 10^{3.414/20} + 10^{3.099/20} + 10^{4.574/20})^2 / 4) = 9.71 \text{ dBi} > 6\text{dBi}$ , so the limit shall be reduced to 8 dBm – (9.715dBi – 6dBi) = 4.29 dBm









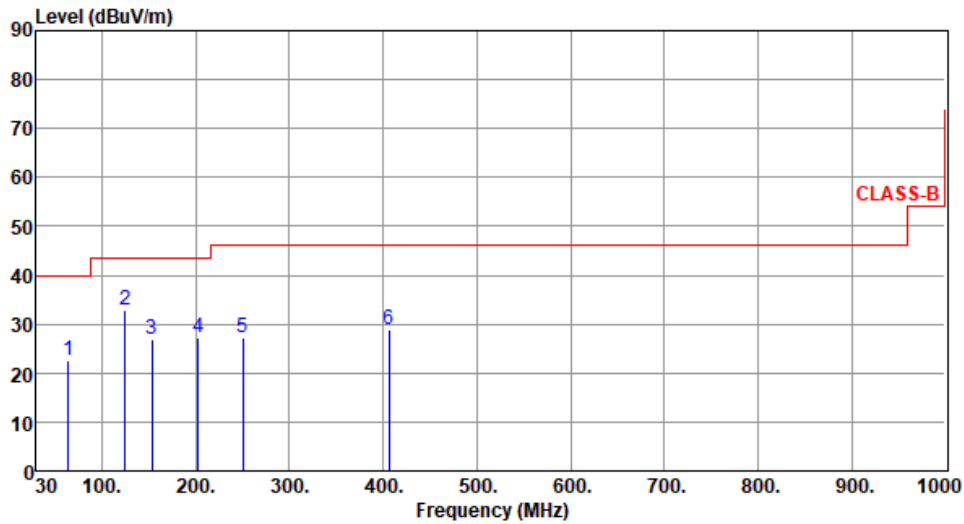


Non-beamforming mode

Unwanted Emissions (Below 1GHz)

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	63.95	22.75	40.00	-17.25	32.57	-9.82	Peak	---	---
2	125.06	33.00	43.50	-10.50	43.80	-10.80	Peak	---	---
3	153.19	26.89	43.50	-16.61	35.92	-9.03	Peak	---	---
4	202.66	27.17	43.50	-16.33	39.08	-11.91	Peak	---	---
5	250.19	27.14	46.00	-18.86	37.19	-10.05	Peak	---	---
6	406.36	28.84	46.00	-17.16	34.32	-5.48	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

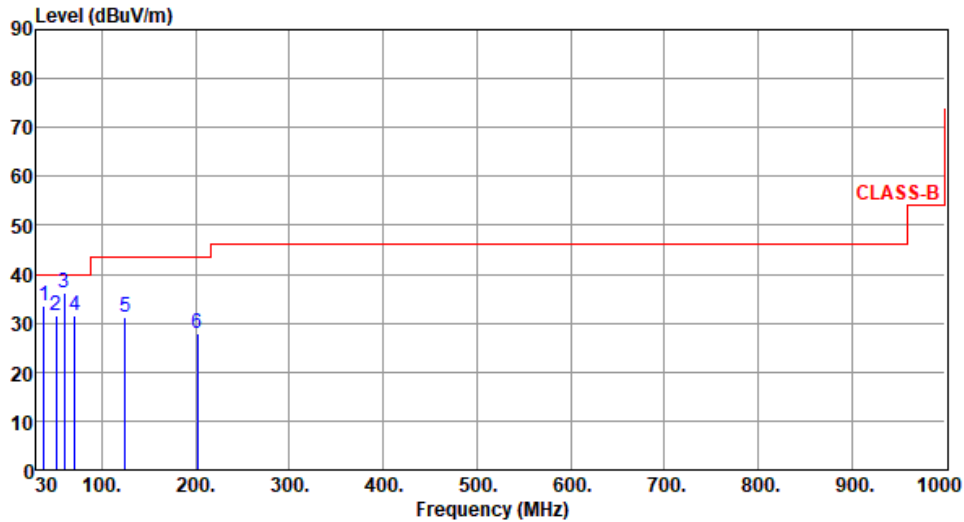
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	37.76	33.49	40.00	-6.51	42.45	-8.96	Peak	---	---
2	51.34	31.60	40.00	-8.40	39.80	-8.20	QP	100	20
3	60.07	36.10	40.00	-3.90	45.04	-8.94	Peak	---	---
4	70.74	31.50	40.00	-8.50	42.82	-11.32	Peak	---	---
5	125.06	31.09	43.50	-12.41	41.89	-10.80	Peak	---	---
6	201.69	27.76	43.50	-15.74	39.65	-11.89	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Unwanted Emission (Above 1GHz) for 11b

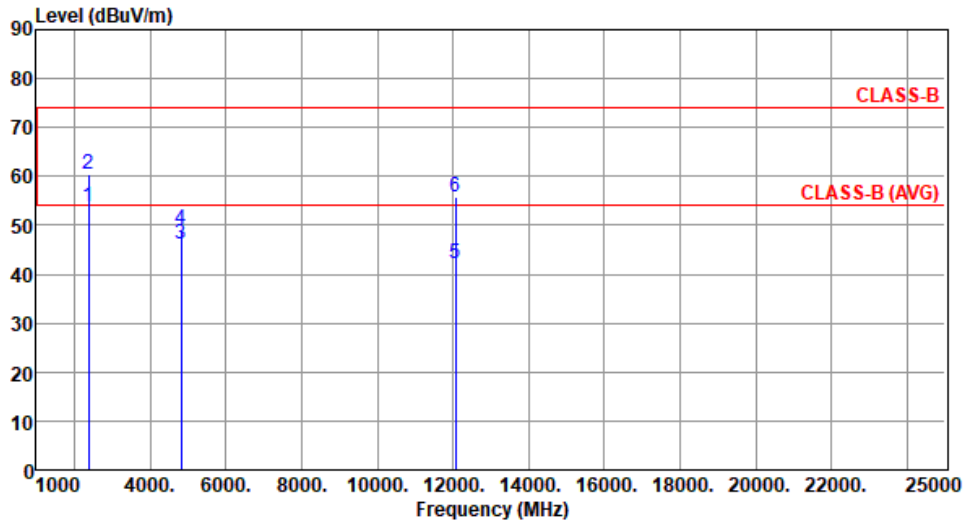
Modulation	11b	Test Freq. (MHz)	2412						
Polarization	Horizontal								
Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 62									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	49.97	54.00	-4.03	54.62	-4.65	Average	151	21
2	2390.00	56.83	74.00	-17.17	61.48	-4.65	Peak	151	21
3	4824.00	43.53	54.00	-10.47	44.06	-0.53	Average	302	341
4	4824.00	47.68	74.00	-26.32	48.21	-0.53	Peak	302	341
5	12060.00	41.85	54.00	-12.15	35.48	6.37	Average	100	241
6	12060.00	55.63	74.00	-18.37	49.26	6.37	Peak	100	241

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	53.86	54.00	-0.14	58.51	-4.65	Average	197	118
2	2390.00	60.46	74.00	-13.54	65.11	-4.65	Peak	197	118
3	4824.00	46.00	54.00	-8.00	46.53	-0.53	Average	258	109
4	4824.00	49.14	74.00	-24.86	49.67	-0.53	Peak	258	109
5	12060.00	42.05	54.00	-11.95	35.68	6.37	Average	100	159
6	12060.00	55.68	74.00	-18.32	49.31	6.37	Peak	100	159

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

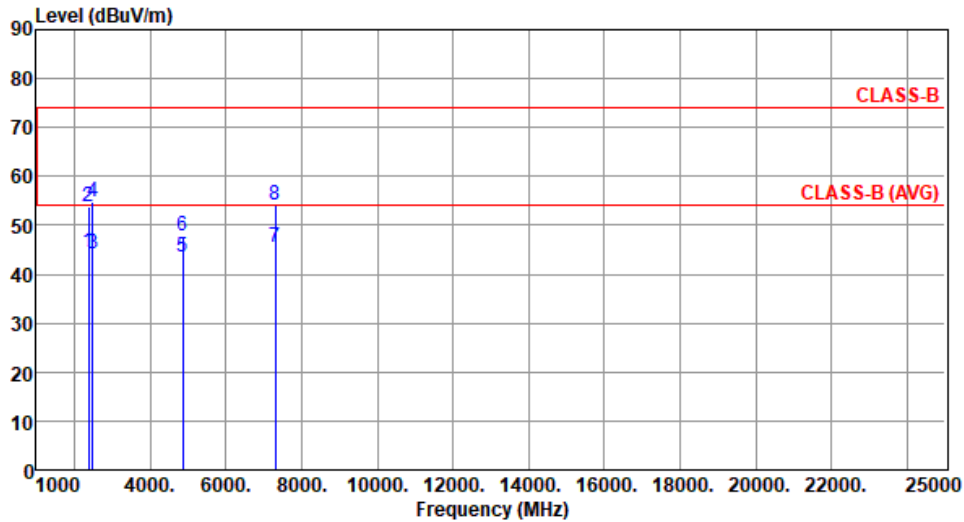
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	44.38	54.00	-9.62	49.03	-4.65	Average	100	228
2	2390.00	53.94	74.00	-20.06	58.59	-4.65	Peak	100	228
3	2483.50	44.19	54.00	-9.81	49.08	-4.89	Average	100	228
4	2483.50	54.82	74.00	-19.18	59.71	-4.89	Peak	100	228
5	4874.00	43.65	54.00	-10.35	44.19	-0.54	Average	303	339
6	4874.00	47.78	74.00	-26.22	48.32	-0.54	Peak	303	339
7	7311.00	45.60	54.00	-8.40	40.38	5.22	Average	171	323
8	7311.00	54.10	74.00	-19.90	48.88	5.22	Peak	171	323

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

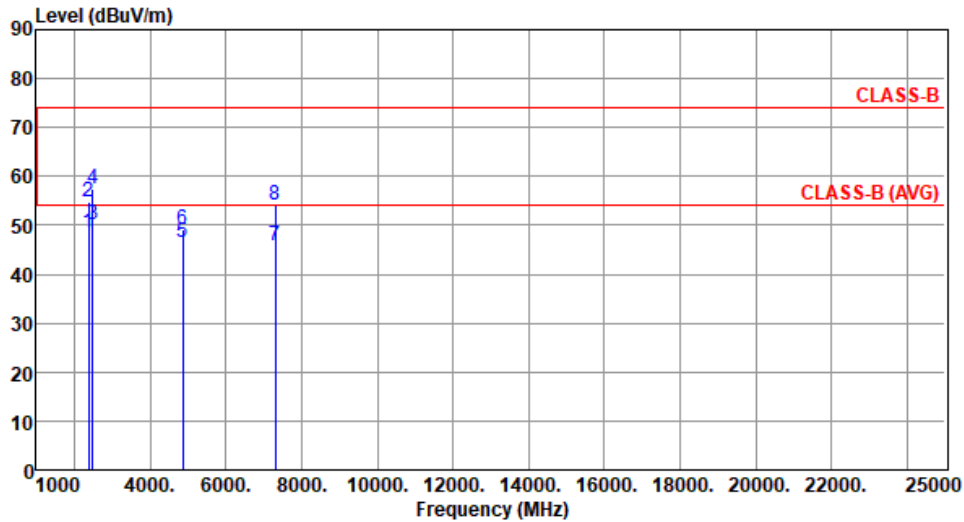
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	48.59	54.00	-5.41	53.24	-4.65	Average	195	274
2	2390.00	54.77	74.00	-19.23	59.42	-4.65	Peak	195	274
3	2483.50	50.01	54.00	-3.99	54.90	-4.89	Average	194	111
4	2483.50	57.61	74.00	-16.39	62.50	-4.89	Peak	194	111
5	4874.00	46.43	54.00	-7.57	46.97	-0.54	Average	259	114
6	4874.00	49.29	74.00	-24.71	49.83	-0.54	Peak	259	114
7	7311.00	45.68	54.00	-8.32	40.46	5.22	Average	195	274
8	7311.00	54.15	74.00	-19.85	48.93	5.22	Peak	195	274

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

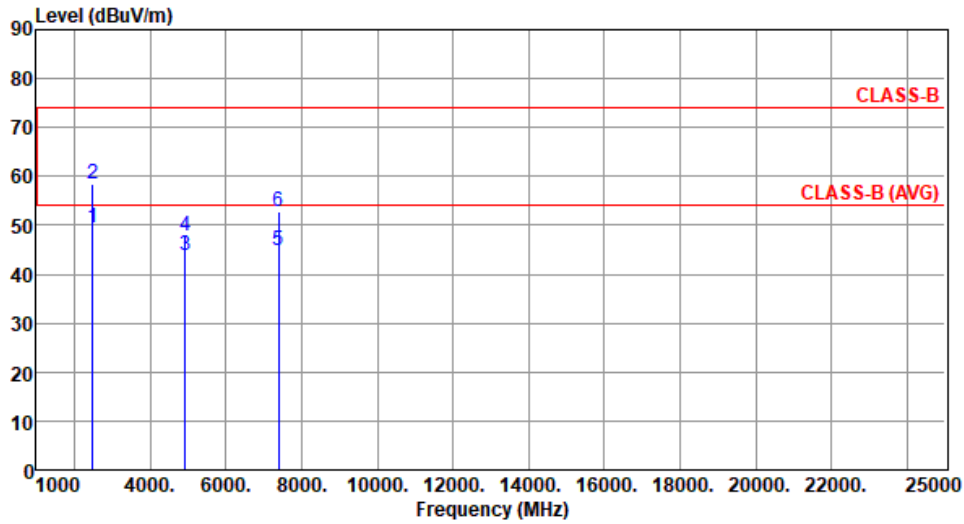
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.62	54.00	-4.38	54.51	-4.89	Average	146	18
2	2483.50	58.33	74.00	-15.67	63.22	-4.89	Peak	146	18
3	4924.00	43.76	54.00	-10.24	44.27	-0.51	Average	298	332
4	4924.00	47.97	74.00	-26.03	48.48	-0.51	Peak	298	332
5	7386.00	44.73	54.00	-9.27	39.66	5.07	Average	100	173
6	7386.00	52.74	74.00	-21.26	47.67	5.07	Peak	100	173

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

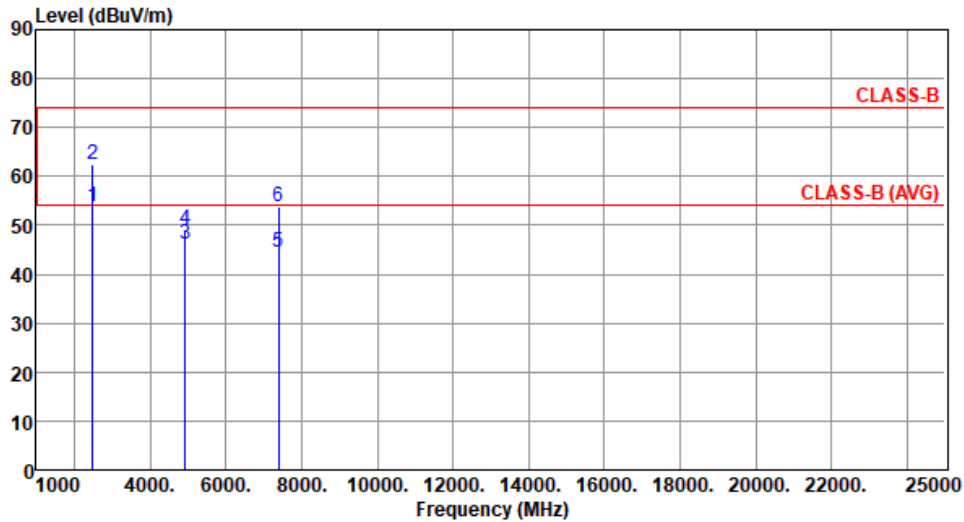
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	53.66	54.00	-0.34	58.55	-4.89	Average	195	119
2	2483.50	62.47	74.00	-11.53	67.36	-4.89	Peak	195	119
3	4924.00	46.32	54.00	-7.68	46.83	-0.51	Average	261	108
4	4924.00	49.21	74.00	-24.79	49.72	-0.51	Peak	261	108
5	7386.00	44.47	54.00	-9.53	39.40	5.07	Average	100	173
6	7386.00	53.68	74.00	-20.32	48.61	5.07	Peak	100	173

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2412						
Polarization	Horizontal								
Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 62									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	49.68	54.00	-4.32	54.33	-4.65	Average	152	23
2	2390.00	69.91	74.00	-4.09	74.56	-4.65	Peak	152	23
3	4824.00	32.74	54.00	-21.26	33.27	-0.53	Average	100	176
4	4824.00	44.90	74.00	-29.10	45.43	-0.53	Peak	100	176
5	12060.00	41.84	54.00	-12.16	35.47	6.37	Average	100	208
6	12060.00	55.50	74.00	-18.50	49.13	6.37	Peak	100	208

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2412
<b>Polarization</b>	Vertical		
Test By : Sean Yu		Temperature(°C): 24	Humidity(%): 62

The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 75 dBuV/m and CLASS-B (AVG) at approximately 55 dBuV/m. Six vertical blue lines represent emission peaks, labeled 1 through 6, with their corresponding data in the table below.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	53.47	54.00	-0.53	58.12	-4.65	Average	197	130
2	2390.00	73.81	74.00	-0.19	78.46	-4.65	Peak	197	130
3	4824.00	32.60	54.00	-21.40	33.13	-0.53	Average	100	186
4	4824.00	44.99	74.00	-29.01	45.52	-0.53	Peak	100	186
5	12060.00	41.89	54.00	-12.11	35.52	6.37	Average	100	114
6	12060.00	56.05	74.00	-17.95	49.68	6.37	Peak	100	114

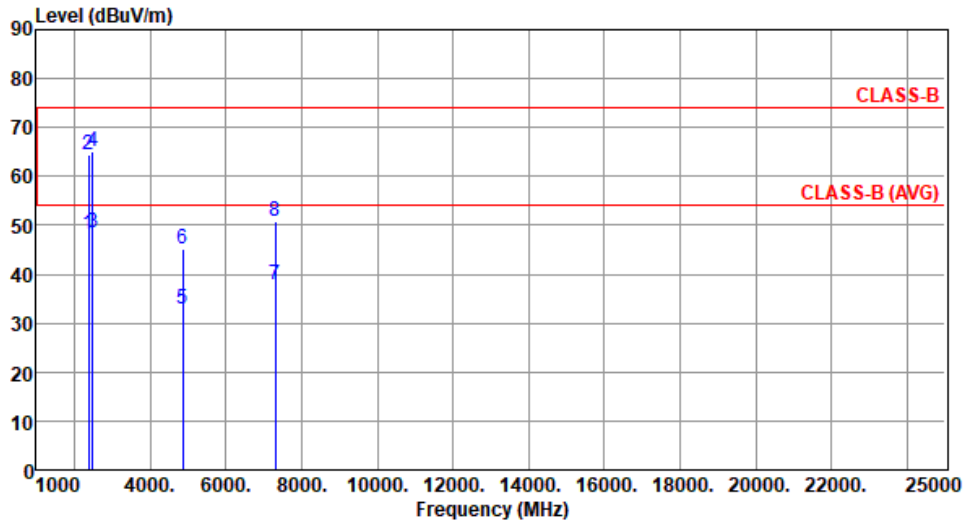
  

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	48.13	54.00	-5.87	52.78	-4.65	Average	100	137
2	2390.00	64.43	74.00	-9.57	69.08	-4.65	Peak	100	137
3	2483.50	48.43	54.00	-5.57	53.32	-4.89	Average	100	209
4	2483.50	64.98	74.00	-9.02	69.87	-4.89	Peak	100	209
5	4874.00	32.74	54.00	-21.26	33.28	-0.54	Average	100	176
6	4874.00	45.24	74.00	-28.76	45.78	-0.54	Peak	100	176
7	7311.00	37.74	54.00	-16.26	32.52	5.22	Average	100	283
8	7311.00	50.90	74.00	-23.10	45.68	5.22	Peak	100	283

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

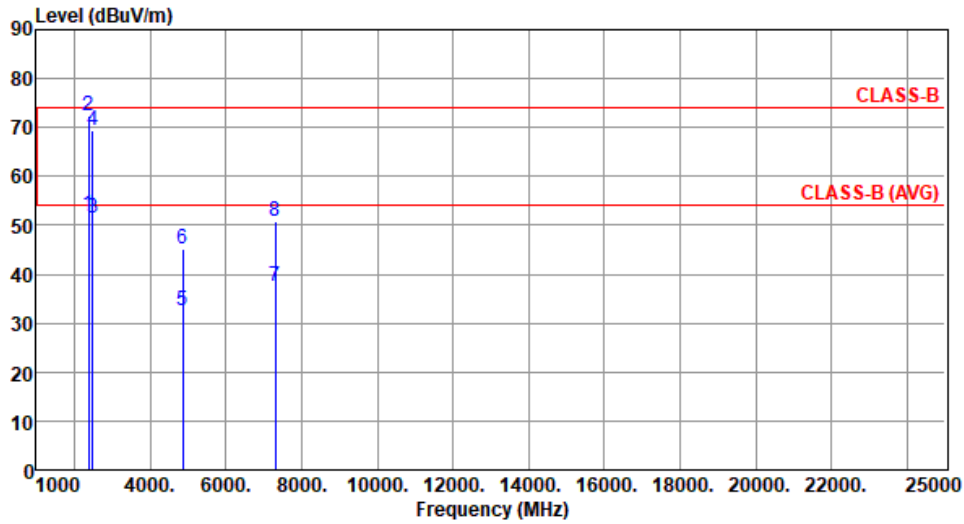
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.04	54.00	-1.96	56.69	-4.65	Average	216	37
2	2390.00	72.30	74.00	-1.70	76.95	-4.65	Peak	216	37
3	2483.50	51.58	54.00	-2.42	56.47	-4.89	Average	219	327
4	2483.50	69.44	74.00	-4.56	74.33	-4.89	Peak	219	327
5	4874.00	32.71	54.00	-21.29	33.25	-0.54	Average	100	189
6	4874.00	45.25	74.00	-28.75	45.79	-0.54	Peak	100	189
7	7311.00	37.64	54.00	-16.36	32.42	5.22	Average	100	227
8	7311.00	50.88	74.00	-23.12	45.66	5.22	Peak	100	227

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

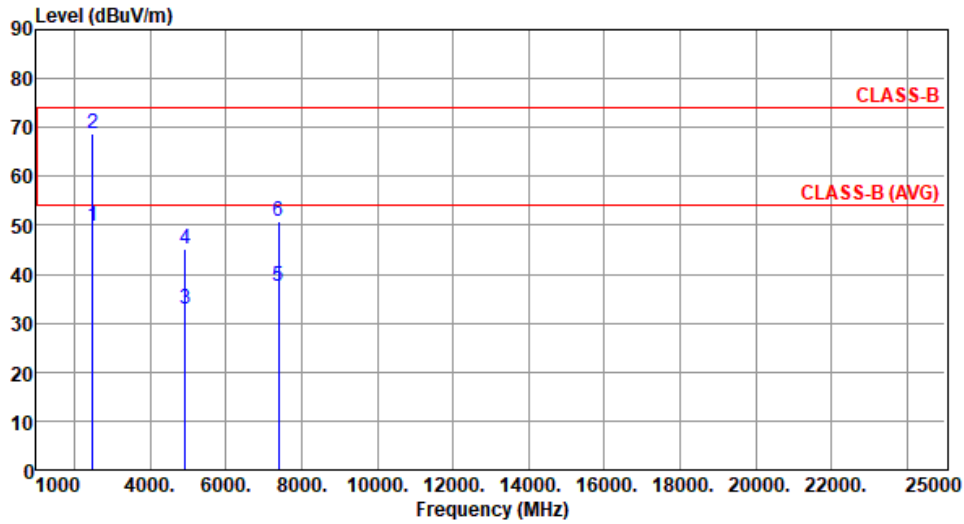
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.76	54.00	-4.24	54.65	-4.89	Average	150	21
2	2483.50	68.82	74.00	-5.18	73.71	-4.89	Peak	150	21
3	4924.00	32.80	54.00	-21.20	33.31	-0.51	Average	100	177
4	4924.00	45.10	74.00	-28.90	45.61	-0.51	Peak	100	177
5	7386.00	37.43	54.00	-16.57	32.36	5.07	Average	100	228
6	7386.00	50.72	74.00	-23.28	45.65	5.07	Peak	100	228

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

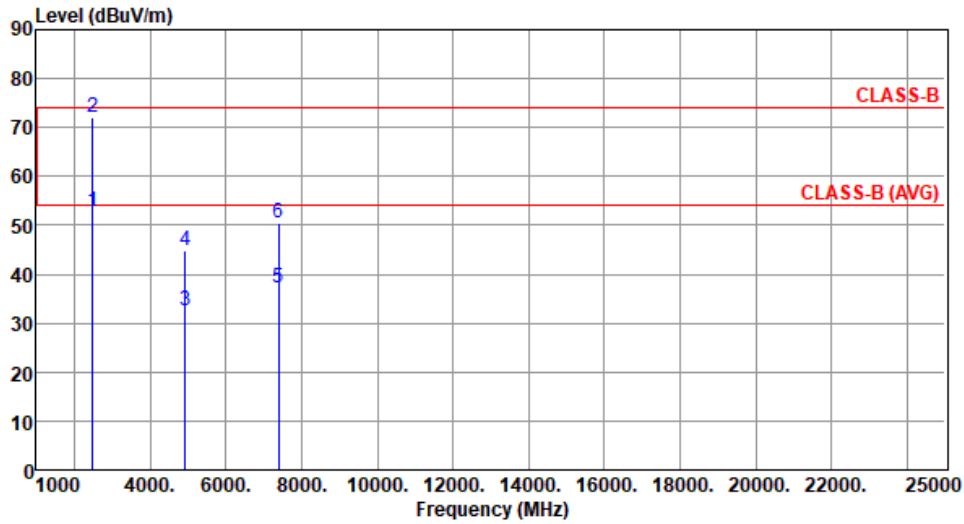
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.94	54.00	-1.06	57.83	-4.89	Average	138	260
2	2483.50	71.99	74.00	-2.01	76.88	-4.89	Peak	138	260
3	4924.00	32.69	54.00	-21.31	33.20	-0.51	Average	100	179
4	4924.00	44.94	74.00	-29.06	45.45	-0.51	Peak	100	179
5	7386.00	37.32	54.00	-16.68	32.25	5.07	Average	100	176
6	7386.00	50.53	74.00	-23.47	45.46	5.07	Peak	100	176

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Unwanted Emissions (Above 1GHz) for ax HE20

Modulation	ax HE20		Test Freq. (MHz)	2412					
Polarization	Horizontal								
Test By : Akun Chung			Temperature(°C): 24			Humidity(%): 62			
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	48.67	54.00	-5.33	53.32	-4.65	Average	330	48
2	2390.00	64.58	74.00	-9.42	69.23	-4.65	Peak	330	48
3	4824.00	31.78	54.00	-22.22	32.31	-0.53	Average	100	176
4	4824.00	44.91	74.00	-29.09	45.44	-0.53	Peak	100	176
5	12060.00	41.83	54.00	-12.17	35.46	6.37	Average	100	228
6	12060.00	55.60	74.00	-18.40	49.23	6.37	Peak	100	228
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									



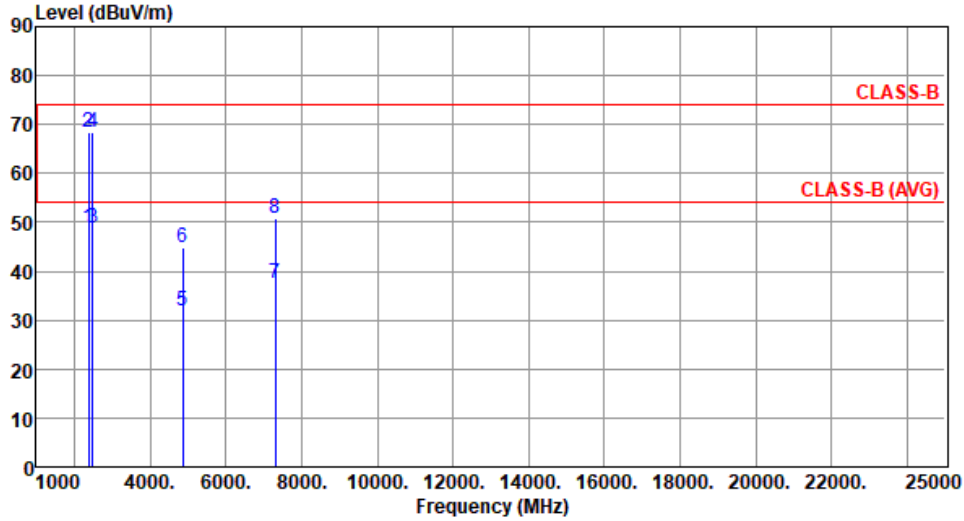
<b>Modulation</b>	ax HE20	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Vertical								
Test By : Akun Chung		Temperature(°C): 24		Humidity(%): 62					
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.56	54.00	-1.44	57.21	-4.65	Average	256	310
2	2390.00	68.36	74.00	-5.64	73.01	-4.65	Peak	256	310
3	4824.00	31.89	54.00	-22.11	32.42	-0.53	Average	100	177
4	4824.00	45.08	74.00	-28.92	45.61	-0.53	Peak	100	177
5	12060.00	41.83	54.00	-12.17	35.46	6.37	Average	100	310
6	12060.00	55.64	74.00	-18.36	49.27	6.37	Peak	100	310
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									





Modulation	ax HE20	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	48.97	54.00	-5.03	53.62	-4.65	Average	329	109
2	2390.00	68.34	74.00	-5.66	72.99	-4.65	Peak	329	109
3	2483.50	48.69	54.00	-5.31	53.58	-4.89	Average	332	111
4	2483.50	68.33	74.00	-5.67	73.22	-4.89	Peak	332	111
5	4874.00	31.77	54.00	-22.23	32.31	-0.54	Average	100	177
6	4874.00	44.92	74.00	-29.08	45.46	-0.54	Peak	100	177
7	7311.00	37.62	54.00	-16.38	32.40	5.22	Average	100	156
8	7311.00	50.65	74.00	-23.35	45.43	5.22	Peak	100	156

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

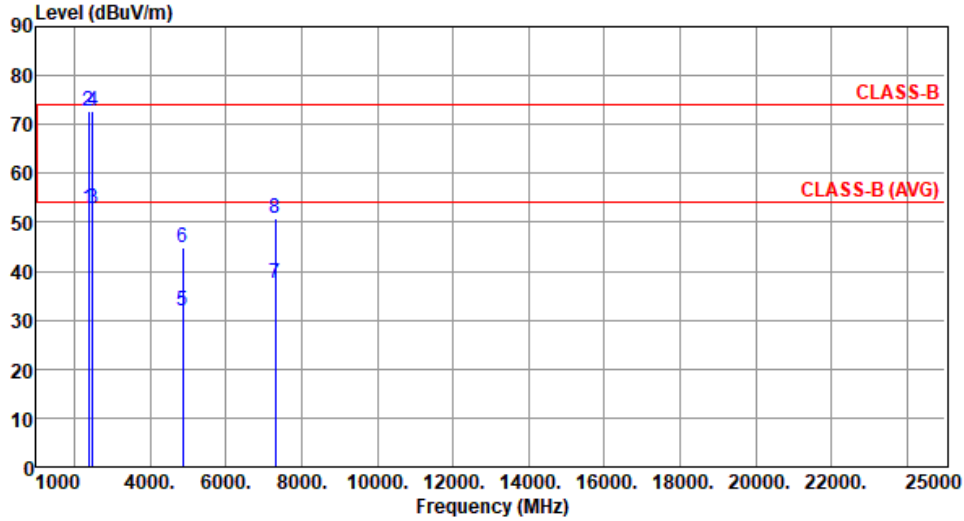
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By : Sean Yu      Temperature(°C): 24      Humidity(%): 63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.96	54.00	-1.04	57.61	-4.65	Average	240	306
2	2390.00	72.67	74.00	-1.33	77.32	-4.65	Peak	240	306
3	2483.50	52.85	54.00	-1.15	57.74	-4.89	Average	238	145
4	2483.50	72.58	74.00	-1.42	77.47	-4.89	Peak	238	145
5	4874.00	31.83	54.00	-22.17	32.37	-0.54	Average	100	186
6	4874.00	44.83	74.00	-29.17	45.37	-0.54	Peak	100	186
7	7311.00	37.51	54.00	-16.49	32.29	5.22	Average	100	298
8	7311.00	50.71	74.00	-23.29	45.49	5.22	Peak	100	298

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

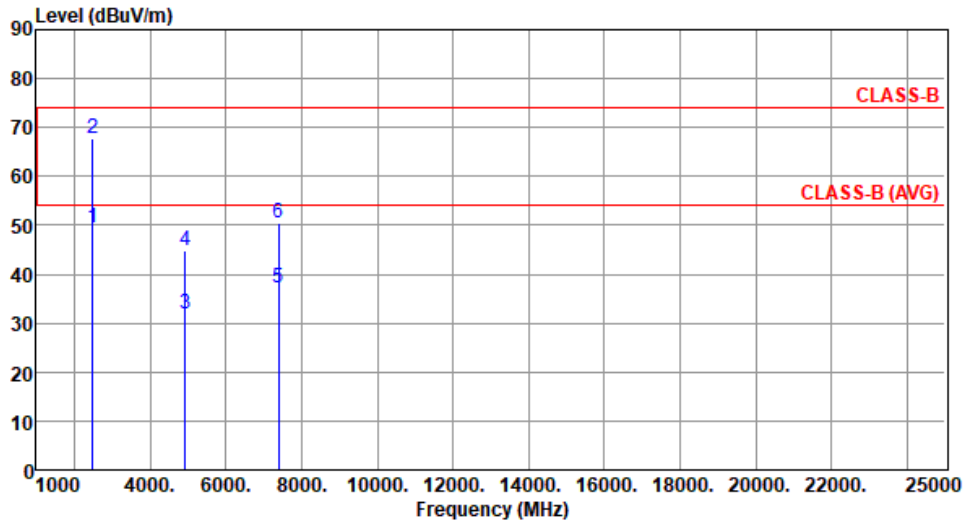
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	2462
Polarization	Horizontal		

Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.42	54.00	-4.58	54.31	-4.89	Average	328	51
2	2483.50	67.66	74.00	-6.34	72.55	-4.89	Peak	328	51
3	4924.00	31.95	54.00	-22.05	32.46	-0.51	Average	100	183
4	4924.00	44.85	74.00	-29.15	45.36	-0.51	Peak	100	183
5	7386.00	37.34	54.00	-16.66	32.27	5.07	Average	100	145
6	7386.00	50.43	74.00	-23.57	45.36	5.07	Peak	100	145

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

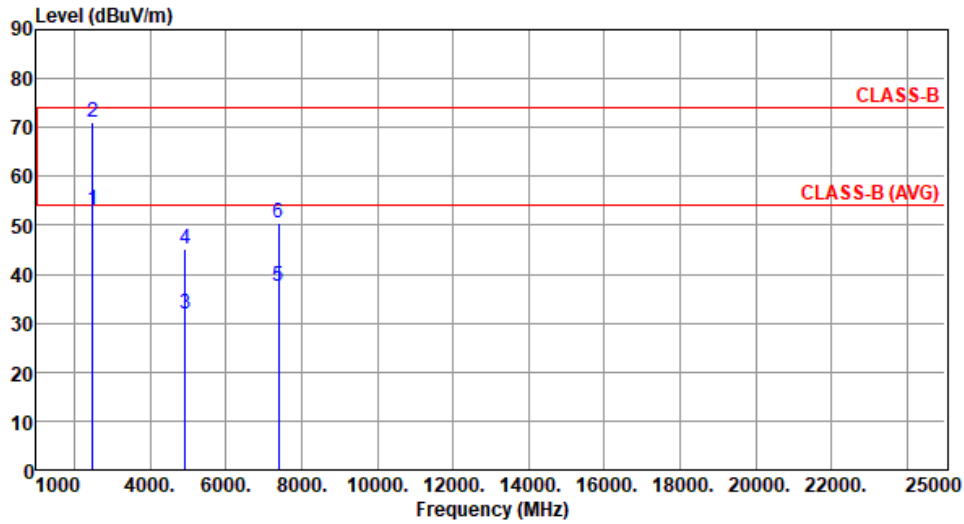
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	ax HE20	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Vertical		

Test By :Akun Chung      Temperature(°C):24      Humidity(%):62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	53.26	54.00	-0.74	58.15	-4.89	Average	190	130
2	2483.50	71.13	74.00	-2.87	76.02	-4.89	Peak	190	130
3	4924.00	31.88	54.00	-22.12	32.39	-0.51	Average	100	188
4	4924.00	45.12	74.00	-28.88	45.63	-0.51	Peak	100	188
5	7386.00	37.46	54.00	-16.54	32.39	5.07	Average	100	156
6	7386.00	50.55	74.00	-23.45	45.48	5.07	Peak	100	156

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Unwanted Emissions (Above 1GHz) for ax HE40

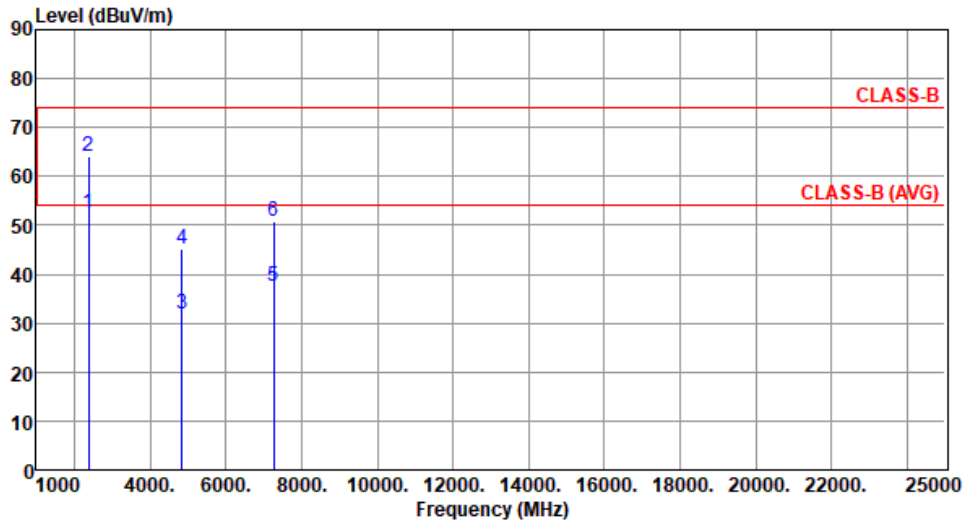
Modulation	ax HE40	Test Freq. (MHz)	2422						
Polarization	Horizontal								
Test By :Akun Chung      Temperature(°C):24      Humidity(%):62									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	49.27	54.00	-4.73	53.92	-4.65	Average	331	57
2	2390.00	60.26	74.00	-13.74	64.91	-4.65	Peak	331	57
3	4844.00	31.84	54.00	-22.16	32.37	-0.53	Average	100	176
4	4844.00	44.85	74.00	-29.15	45.38	-0.53	Peak	100	176
5	7266.00	37.62	54.00	-16.38	32.47	5.15	Average	100	258
6	7266.00	50.83	74.00	-23.17	45.68	5.15	Peak	100	258

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	2422
Polarization	Vertical		

Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.53	54.00	-1.47	57.18	-4.65	Average	218	296
2	2390.00	64.13	74.00	-9.87	68.78	-4.65	Peak	218	296
3	4844.00	31.86	54.00	-22.14	32.39	-0.53	Average	100	172
4	4844.00	45.05	74.00	-28.95	45.58	-0.53	Peak	100	172
5	7266.00	37.56	54.00	-16.44	32.41	5.15	Average	100	351
6	7266.00	50.87	74.00	-23.13	45.72	5.15	Peak	100	351

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

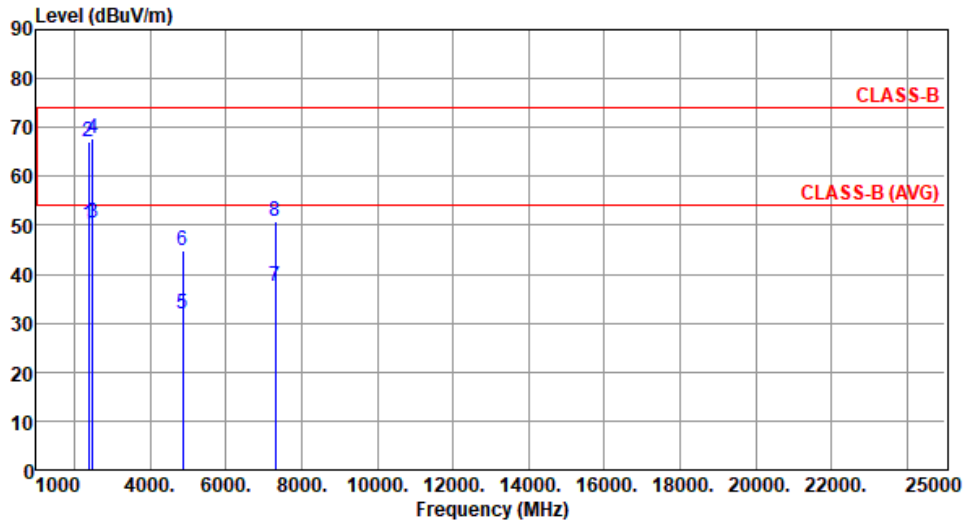
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	50.13	54.00	-3.87	54.78	-4.65	Average	337	52
2	2390.00	67.12	74.00	-6.88	71.77	-4.65	Peak	337	52
3	2483.50	50.60	54.00	-3.40	55.49	-4.89	Average	337	52
4	2483.50	67.83	74.00	-6.17	72.72	-4.89	Peak	337	52
5	4874.00	31.83	54.00	-22.17	32.37	-0.54	Average	100	176
6	4874.00	44.88	74.00	-29.12	45.42	-0.54	Peak	100	176
7	7311.00	37.58	54.00	-16.42	32.36	5.22	Average	100	221
8	7311.00	50.74	74.00	-23.26	45.52	5.22	Peak	100	221

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

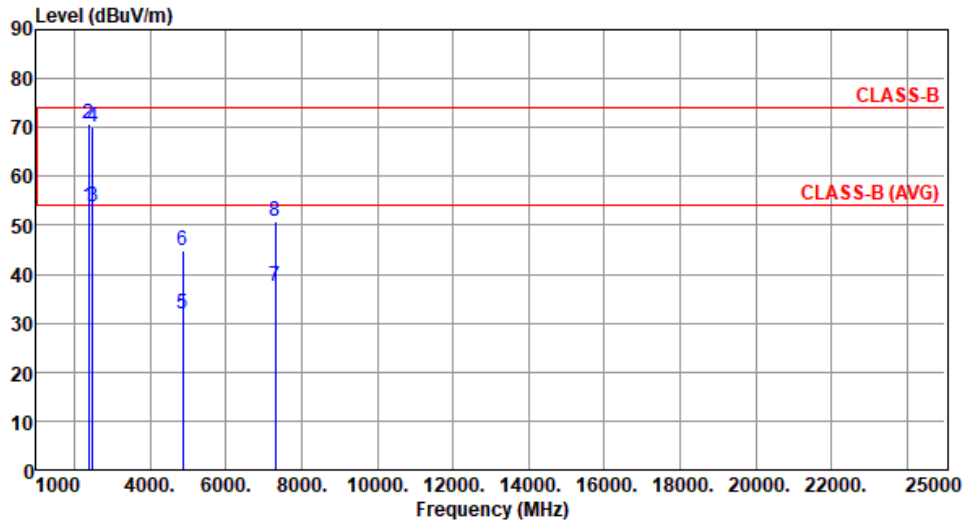
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Akun Chung      Temperature(°C):24      Humidity(%):62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	53.85	54.00	-0.15	58.50	-4.65	Average	191	123
2	2390.00	70.78	74.00	-3.22	75.43	-4.65	Peak	191	123
3	2483.50	53.76	54.00	-0.24	58.65	-4.89	Average	191	123
4	2483.50	70.22	74.00	-3.78	75.11	-4.89	Peak	191	123
5	4874.00	31.73	54.00	-22.27	32.27	-0.54	Average	100	176
6	4874.00	44.82	74.00	-29.18	45.36	-0.54	Peak	100	176
7	7311.00	37.53	54.00	-16.47	32.31	5.22	Average	100	208
8	7311.00	50.73	74.00	-23.27	45.51	5.22	Peak	100	208

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

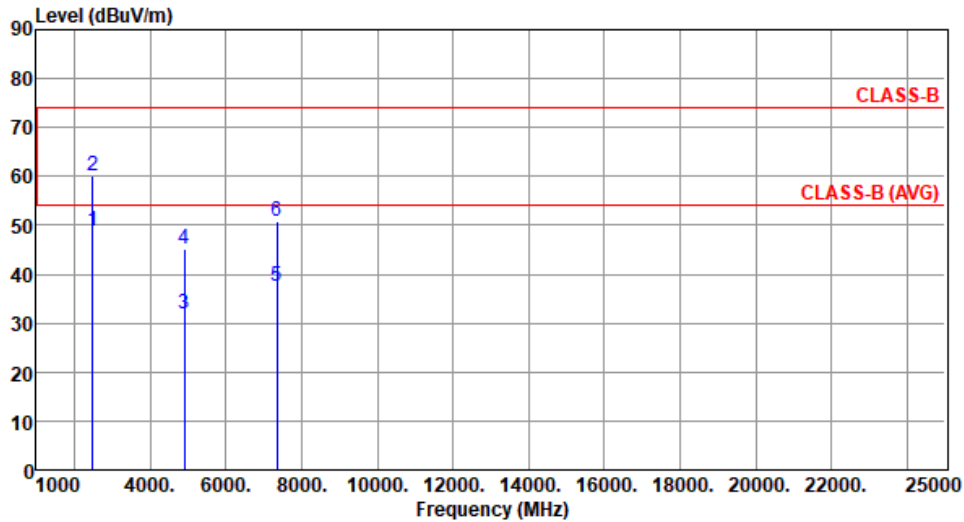
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





<b>Modulation</b>	ax HE40	<b>Test Freq. (MHz)</b>	2452
<b>Polarization</b>	Horizontal		

Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	48.92	54.00	-5.08	53.81	-4.89	Average	338	47
2	2483.50	60.12	74.00	-13.88	65.01	-4.89	Peak	338	47
3	4904.00	31.86	54.00	-22.14	32.40	-0.54	Average	100	119
4	4904.00	45.16	74.00	-28.84	45.70	-0.54	Peak	100	119
5	7356.00	37.55	54.00	-16.45	32.46	5.09	Average	100	251
6	7356.00	50.86	74.00	-23.14	45.77	5.09	Peak	100	251

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

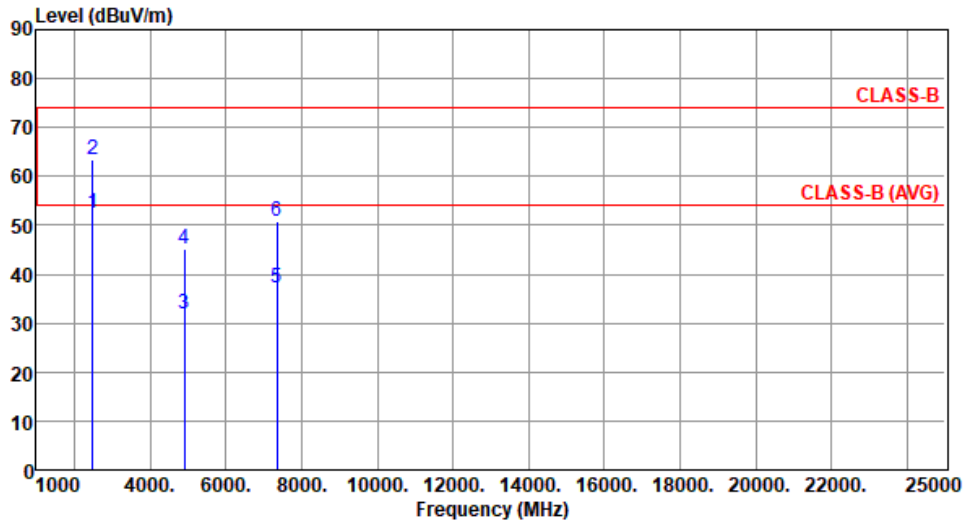
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	ax HE40	<b>Test Freq. (MHz)</b>	2452
<b>Polarization</b>	Vertical		

Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.51	54.00	-1.49	57.40	-4.89	Average	205	225
2	2483.50	63.33	74.00	-10.67	68.22	-4.89	Peak	205	225
3	4904.00	31.72	54.00	-22.28	32.26	-0.54	Average	100	117
4	4904.00	45.12	74.00	-28.88	45.66	-0.54	Peak	100	117
5	7356.00	37.33	54.00	-16.67	32.24	5.09	Average	100	206
6	7356.00	50.94	74.00	-23.06	45.85	5.09	Peak	100	206

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

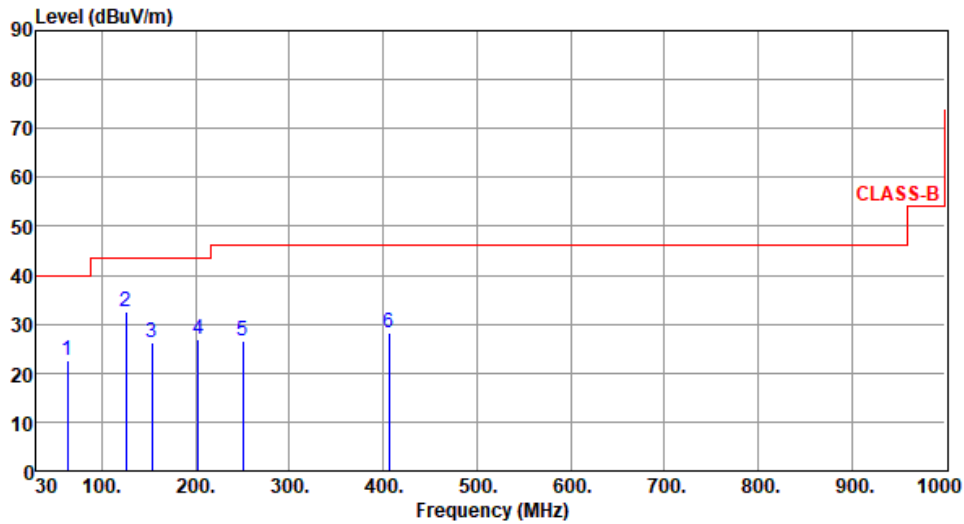


Beamforming mode

Unwanted Emissions (Below 1GHz)

Modulation	ax HE20	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	63.68	22.45	40.00	-17.55	32.24	-9.79	Peak	---	---
2	125.38	32.47	43.50	-11.03	43.20	-10.73	Peak	---	---
3	153.56	26.13	43.50	-17.37	35.12	-8.99	Peak	---	---
4	202.55	27.03	43.50	-16.47	38.94	-11.91	Peak	---	---
5	250.26	26.58	46.00	-19.42	36.63	-10.05	Peak	---	---
6	406.58	28.11	46.00	-17.89	33.58	-5.47	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

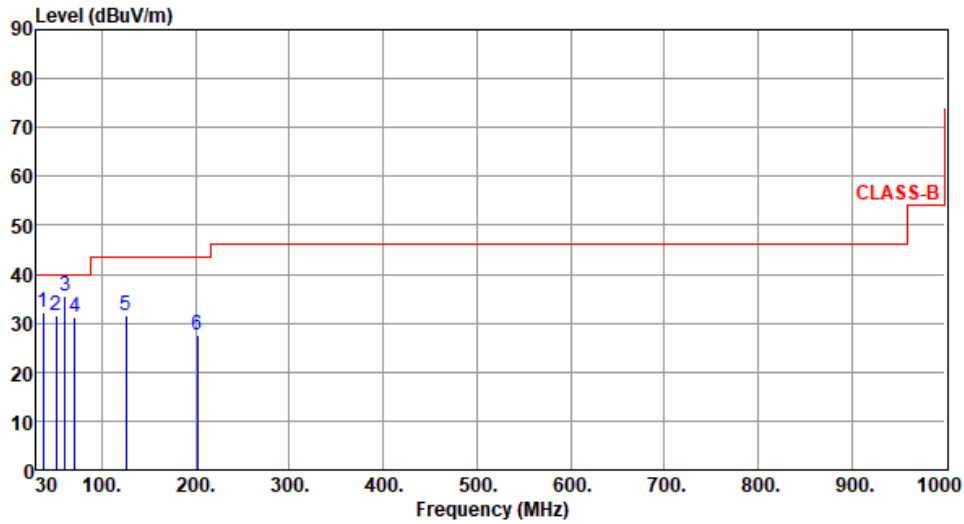
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	ax HE20	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	37.68	32.16	40.00	-7.84	41.13	-8.97	Peak	---	---
2	51.34	31.42	40.00	-8.58	39.62	-8.20	QP	100	19
3	60.28	35.47	40.00	-4.53	44.49	-9.02	Peak	---	---
4	70.64	31.22	40.00	-8.78	42.54	-11.32	Peak	---	---
5	125.48	31.47	43.50	-12.03	42.18	-10.71	Peak	---	---
6	201.55	27.43	43.50	-16.07	39.32	-11.89	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Unwanted Emissions (Above 1GHz) for ax HE20

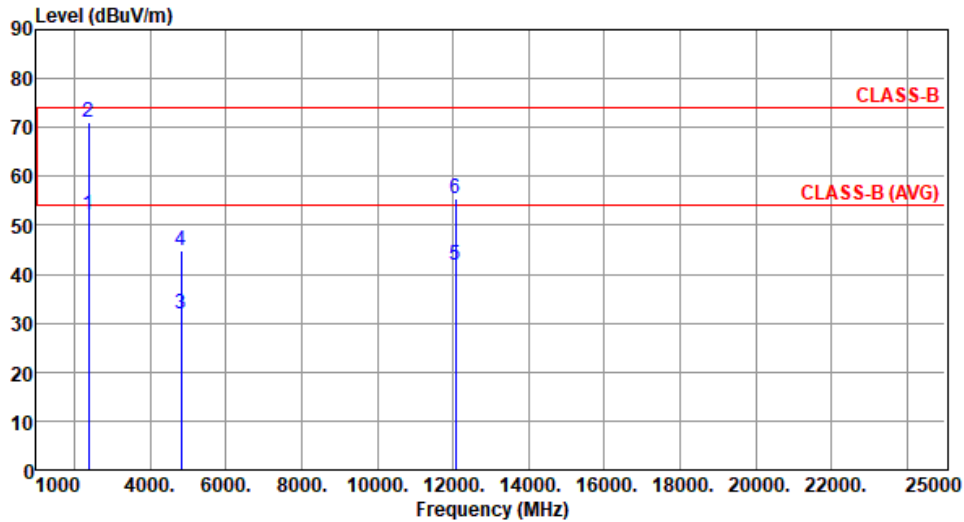
Modulation	ax HE20		Test Freq. (MHz)	2412					
Polarization	Horizontal								
Test By :Sena Yu			Temperature(°C):25			Humidity(%):63			
<p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent CLASS-B limits: one at approximately 75 dBuV/m and another at approximately 55 dBuV/m. Six vertical blue lines represent emission peaks, labeled 1 through 6, with their corresponding data values listed in the table below.</p>									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB/m		High	Table
		dBuV/m			dBuV			cm	deg
1	2390.00	48.26	54.00	-5.74	52.91	-4.65	Average	320	58
2	2390.00	67.61	74.00	-6.39	72.26	-4.65	Peak	320	58
3	4824.00	31.84	54.00	-22.16	32.37	-0.53	Average	100	128
4	4824.00	44.80	74.00	-29.20	45.33	-0.53	Peak	100	128
5	12060.00	42.05	54.00	-11.95	35.68	6.37	Average	100	206
6	12060.00	55.58	74.00	-18.42	49.21	6.37	Peak	100	206

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	ax HE20	<b>Test Freq. (MHz)</b>	2412
<b>Polarization</b>	Vertical		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.01	54.00	-1.99	56.66	-4.65	Average	180	136
2	2390.00	71.20	74.00	-2.80	75.85	-4.65	Peak	180	136
3	4824.00	31.76	54.00	-22.24	32.29	-0.53	Average	100	178
4	4824.00	44.82	74.00	-29.18	45.35	-0.53	Peak	100	178
5	12060.00	41.94	54.00	-12.06	35.57	6.37	Average	100	205
6	12060.00	55.50	74.00	-18.50	49.13	6.37	Peak	100	205

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

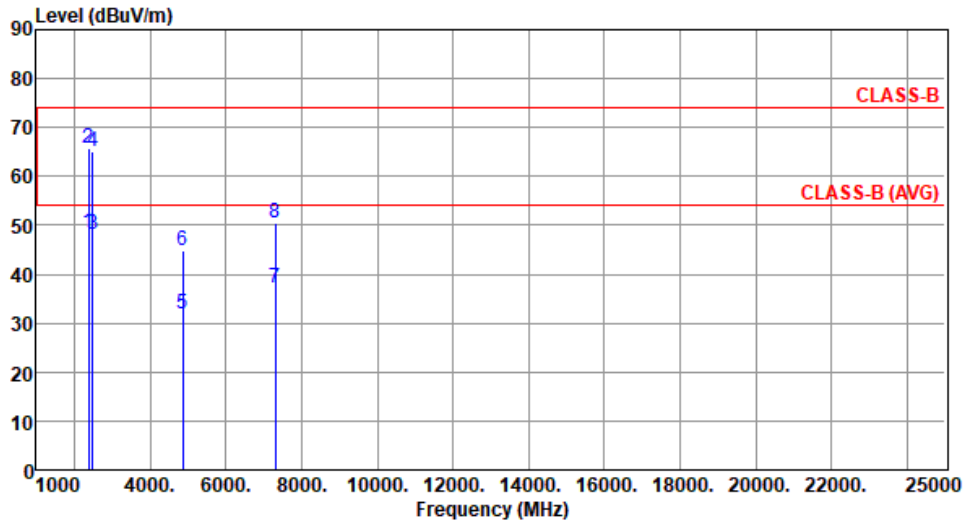
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	48.59	54.00	-5.41	53.24	-4.65	Average	312	66
2	2390.00	65.69	74.00	-8.31	70.34	-4.65	Peak	312	66
3	2483.50	48.13	54.00	-5.87	53.02	-4.89	Average	312	66
4	2483.50	65.24	74.00	-8.76	70.13	-4.89	Peak	312	66
5	4874.00	31.87	54.00	-22.13	32.41	-0.54	Average	100	247
6	4874.00	44.68	74.00	-29.32	45.22	-0.54	Peak	100	247
7	7311.00	37.33	54.00	-16.67	32.11	5.22	Average	100	126
8	7311.00	50.63	74.00	-23.37	45.41	5.22	Peak	100	126

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

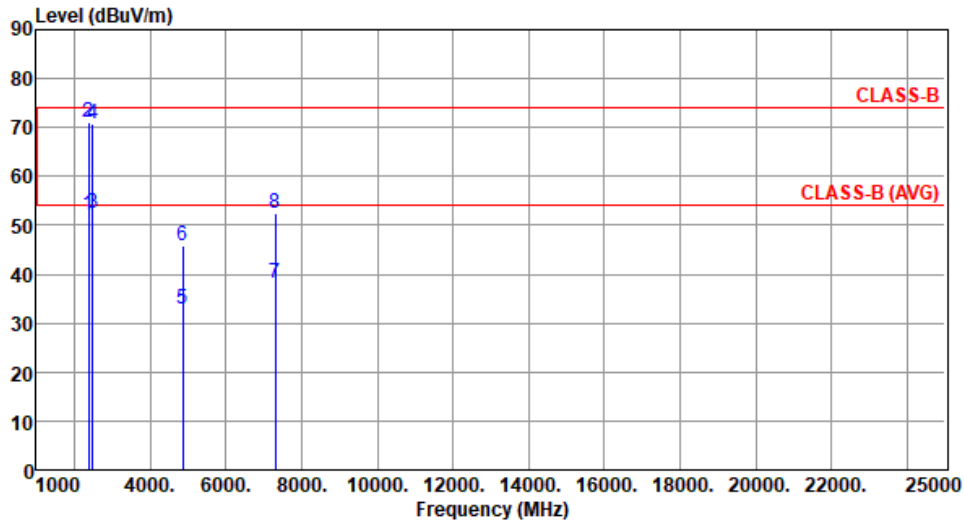
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.03	54.00	-1.97	56.68	-4.65	Average	189	132
2	2390.00	71.06	74.00	-2.94	75.71	-4.65	Peak	189	132
3	2483.50	52.31	54.00	-1.69	57.20	-4.89	Average	189	132
4	2483.50	70.73	74.00	-3.27	75.62	-4.89	Peak	189	132
5	4874.00	32.72	54.00	-21.28	33.26	-0.54	Average	100	26
6	4874.00	45.93	74.00	-28.07	46.47	-0.54	Peak	100	26
7	7311.00	38.10	54.00	-15.90	32.88	5.22	Average	100	272
8	7311.00	52.45	74.00	-21.55	47.23	5.22	Peak	100	272

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

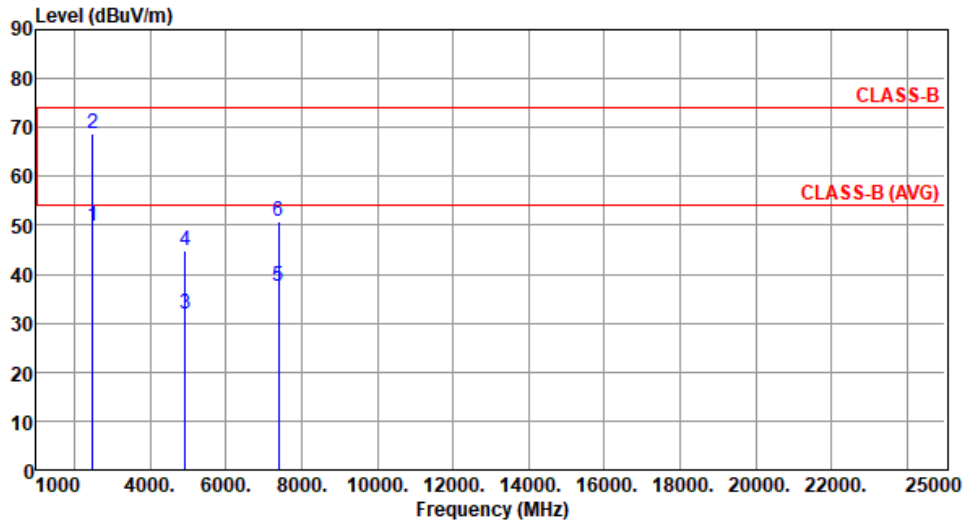
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).





<b>Modulation</b>	ax HE20	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Horizontal		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.83	54.00	-4.17	54.72	-4.89	Average	318	62
2	2483.50	68.58	74.00	-5.42	73.47	-4.89	Peak	318	62
3	4924.00	31.80	54.00	-22.20	32.31	-0.51	Average	100	182
4	4924.00	44.75	74.00	-29.25	45.26	-0.51	Peak	100	182
5	7386.00	37.48	54.00	-16.52	32.41	5.07	Average	100	105
6	7386.00	50.70	74.00	-23.30	45.63	5.07	Peak	100	105

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

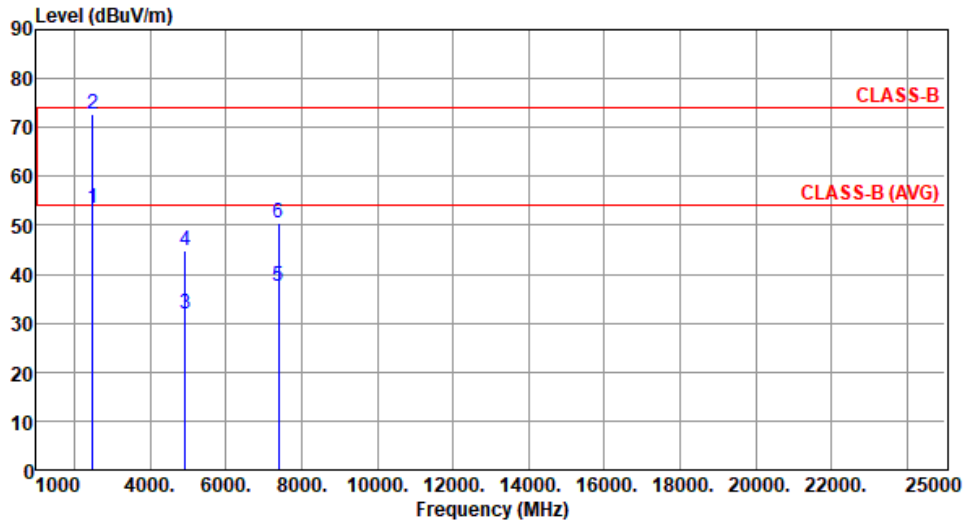
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	ax HE20	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Vertical		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	53.41	54.00	-0.59	58.30	-4.89	Average	174	136
2	2483.50	72.65	74.00	-1.35	77.54	-4.89	Peak	174	136
3	4924.00	31.75	54.00	-22.25	32.26	-0.51	Average	100	177
4	4924.00	44.86	74.00	-29.14	45.37	-0.51	Peak	100	177
5	7386.00	37.36	54.00	-16.64	32.29	5.07	Average	100	186
6	7386.00	50.53	74.00	-23.47	45.46	5.07	Peak	100	186

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Unwanted Emissions (Above 1GHz) for ax HE40

Modulation	ax HE40		Test Freq. (MHz)	2422
Polarization	Horizontal			
Test By :Sena Yu		Temperature(°C):25		Humidity(%):63

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	48.66	54.00	-5.34	53.31	-4.65	Average	308	65
2	2390.00	66.42	74.00	-7.58	71.07	-4.65	Peak	308	65
3	4844.00	31.73	54.00	-22.27	32.26	-0.53	Average	100	178
4	4844.00	44.84	74.00	-29.16	45.37	-0.53	Peak	100	178
5	7266.00	37.53	54.00	-16.47	32.38	5.15	Average	100	251
6	7266.00	50.71	74.00	-23.29	45.56	5.15	Peak	100	251

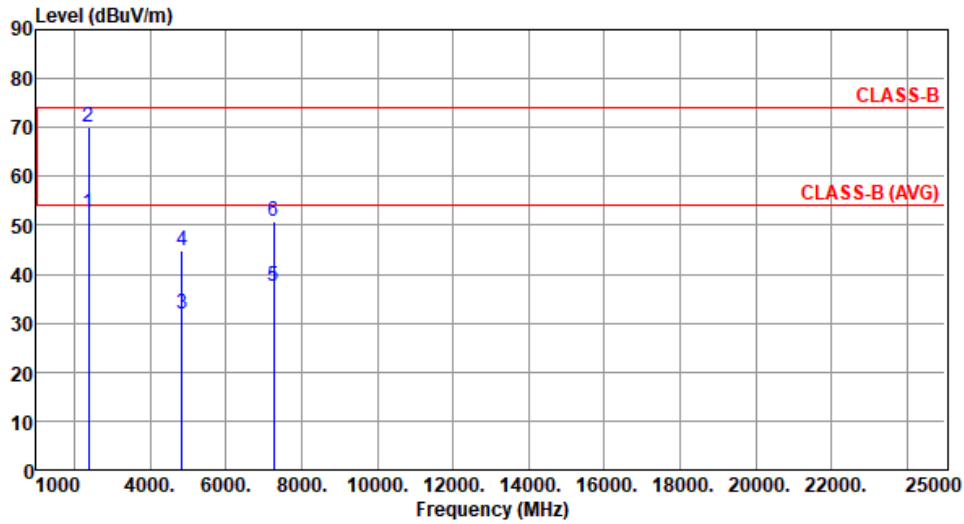
  

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	2422
Polarization	Vertical		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	52.38	54.00	-1.62	57.03	-4.65	Average	200	135
2	2390.00	70.17	74.00	-3.83	74.82	-4.65	Peak	200	135
3	4844.00	31.84	54.00	-22.16	32.37	-0.53	Average	100	178
4	4844.00	44.83	74.00	-29.17	45.36	-0.53	Peak	100	178
5	7266.00	37.57	54.00	-16.43	32.42	5.15	Average	100	116
6	7266.00	50.72	74.00	-23.28	45.57	5.15	Peak	100	116

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

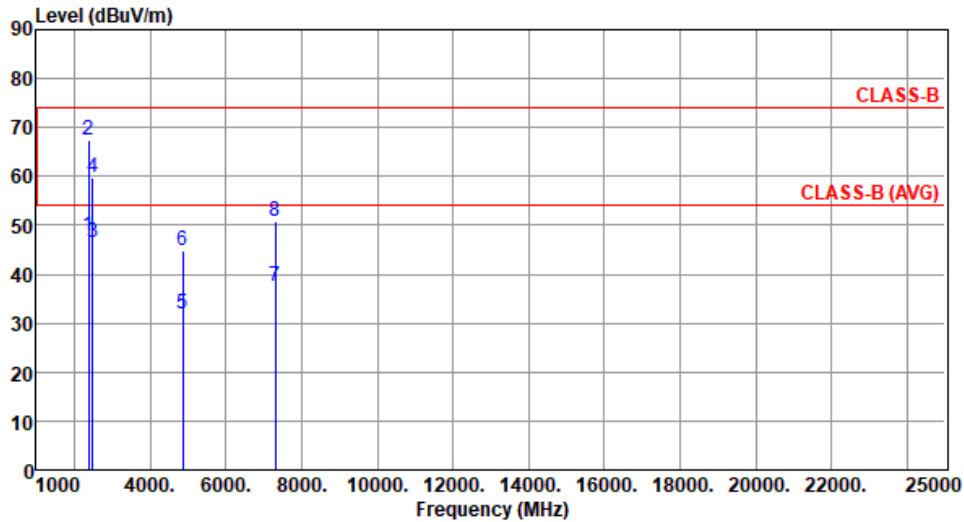
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	2437
Polarization	Horizontal		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	47.75	54.00	-6.25	52.40	-4.65	Average	316	102
2	2390.00	67.34	74.00	-6.66	71.99	-4.65	Peak	316	102
3	2483.50	46.57	54.00	-7.43	51.46	-4.89	Average	316	113
4	2483.50	59.66	74.00	-14.34	64.55	-4.89	Peak	316	113
5	4874.00	31.84	54.00	-22.16	32.38	-0.54	Average	100	182
6	4874.00	44.88	74.00	-29.12	45.42	-0.54	Peak	100	182
7	7311.00	37.52	54.00	-16.48	32.30	5.22	Average	100	222
8	7311.00	50.69	74.00	-23.31	45.47	5.22	Peak	100	222

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

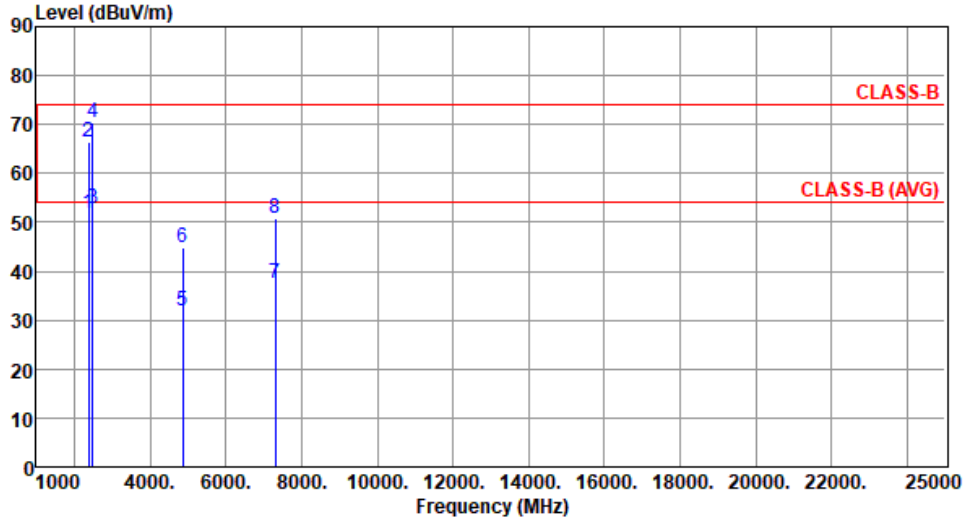
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



<b>Modulation</b>	ax HE40	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	51.69	54.00	-2.31	56.34	-4.65	Average	200	137
2	2390.00	66.48	74.00	-7.52	71.13	-4.65	Peak	200	137
3	2483.50	52.73	54.00	-1.27	57.62	-4.89	Average	200	137
4	2483.50	70.49	74.00	-3.51	75.38	-4.89	Peak	200	137
5	4874.00	31.80	54.00	-22.20	32.34	-0.54	Average	100	177
6	4874.00	44.72	74.00	-29.28	45.26	-0.54	Peak	100	177
7	7311.00	37.58	54.00	-16.42	32.36	5.22	Average	100	265
8	7311.00	50.89	74.00	-23.11	45.67	5.22	Peak	100	265

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

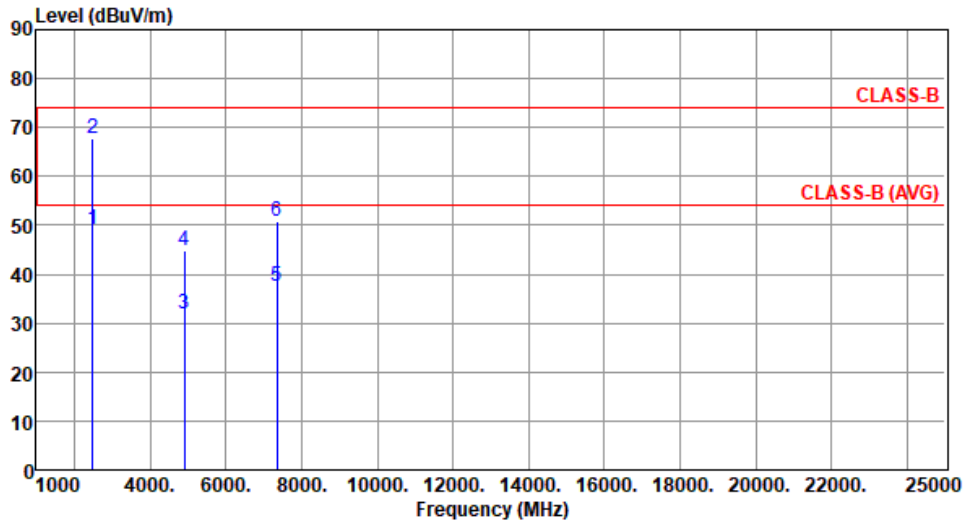
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	ax HE40	<b>Test Freq. (MHz)</b>	2452
<b>Polarization</b>	Horizontal		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.26	54.00	-4.74	54.15	-4.89	Average	311	67
2	2483.50	67.83	74.00	-6.17	72.72	-4.89	Peak	311	67
3	4904.00	31.83	54.00	-22.17	32.37	-0.54	Average	100	173
4	4904.00	44.72	74.00	-29.28	45.26	-0.54	Peak	100	173
5	7356.00	37.47	54.00	-16.53	32.38	5.09	Average	100	248
6	7356.00	50.67	74.00	-23.33	45.58	5.09	Peak	100	248

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

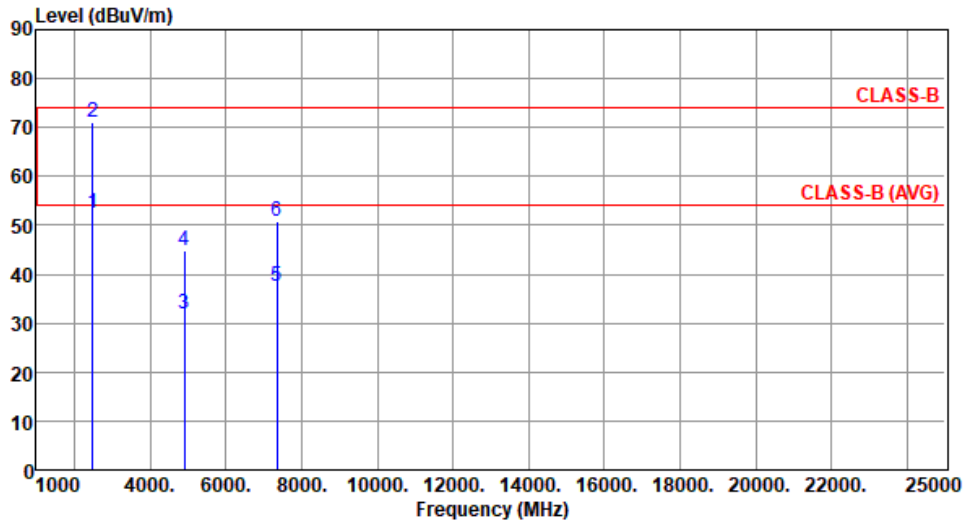
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	2452
Polarization	Vertical		

Test By :Sena Yu      Temperature(°C):25      Humidity(%):63



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	52.56	54.00	-1.44	57.45	-4.89	Average	198	128
2	2483.50	71.00	74.00	-3.00	75.89	-4.89	Peak	198	128
3	4904.00	31.77	54.00	-22.23	32.31	-0.54	Average	100	188
4	4904.00	44.82	74.00	-29.18	45.36	-0.54	Peak	100	188
5	7356.00	37.40	54.00	-16.60	32.31	5.09	Average	100	256
6	7356.00	50.75	74.00	-23.25	45.66	5.09	Peak	100	256

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Non-beamforming mode

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_4TX

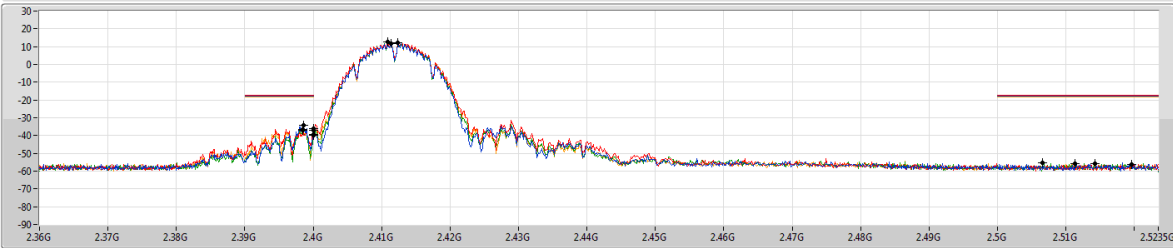
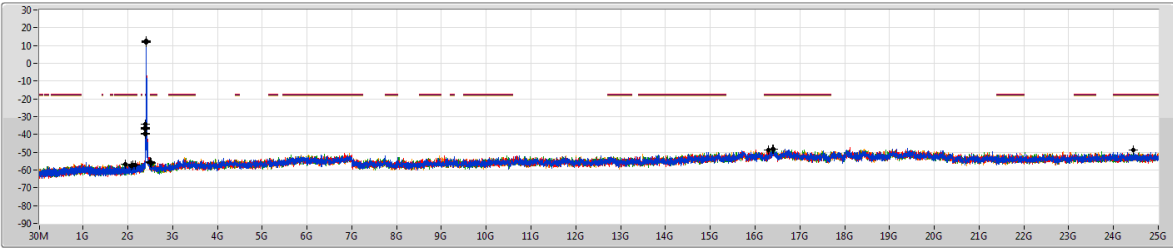
CSEndB

2412MHz

RBW (Hz)  
100k

VBW (Hz)  
300k

Detector  
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41236G	12.10	-17.90	2.06642G	-57.51	2.39856G	-34.13	2.4G	-39.85	2.50662G	-55.33	16.3915G	-48.30	1
2.41086G	12.69	-17.31	2.10503G	-57.02	2.4G	-35.90	2.4G	-36.86	2.51966G	-56.12	16.41398G	-48.47	2
2.41236G	12.06	-17.94	2.16428G	-57.06	2.39848G	-36.54	2.4G	-39.20	2.51422G	-55.62	24.4409G	-48.61	3
2.41136G	11.85	-18.15	1.95225G	-56.77	2.39848G	-37.10	2.4G	-39.34	2.51134G	-55.69	16.30721G	-48.75	4

2.4-2.4835GHz\_802.11b\_Nss1,(1Mbps)\_4TX

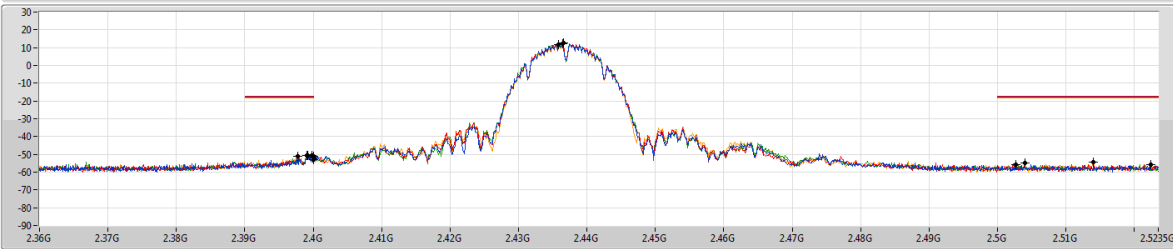
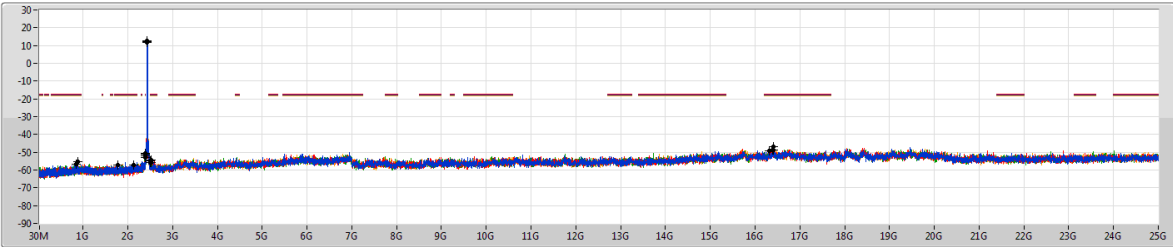
CSEndB

2437MHz

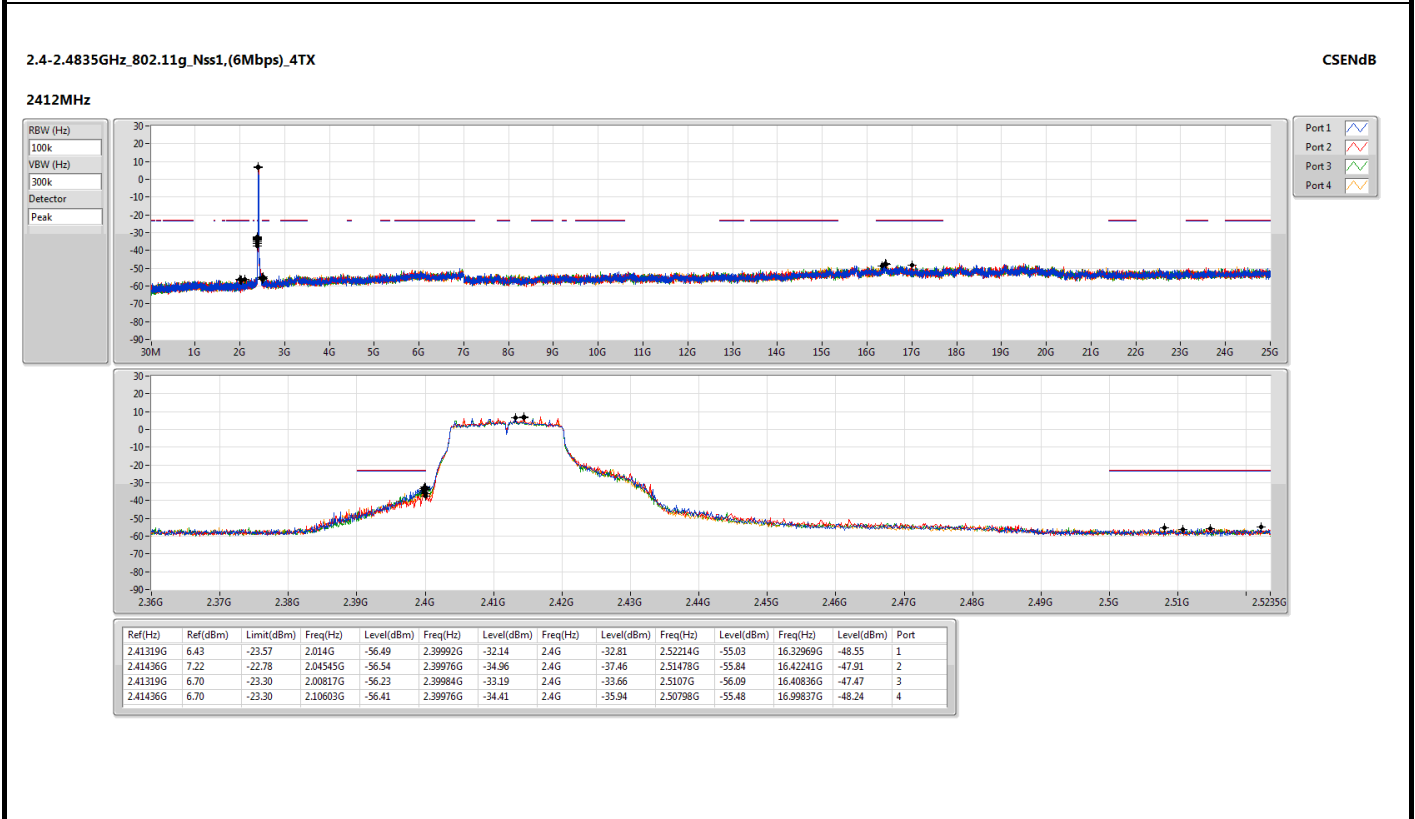
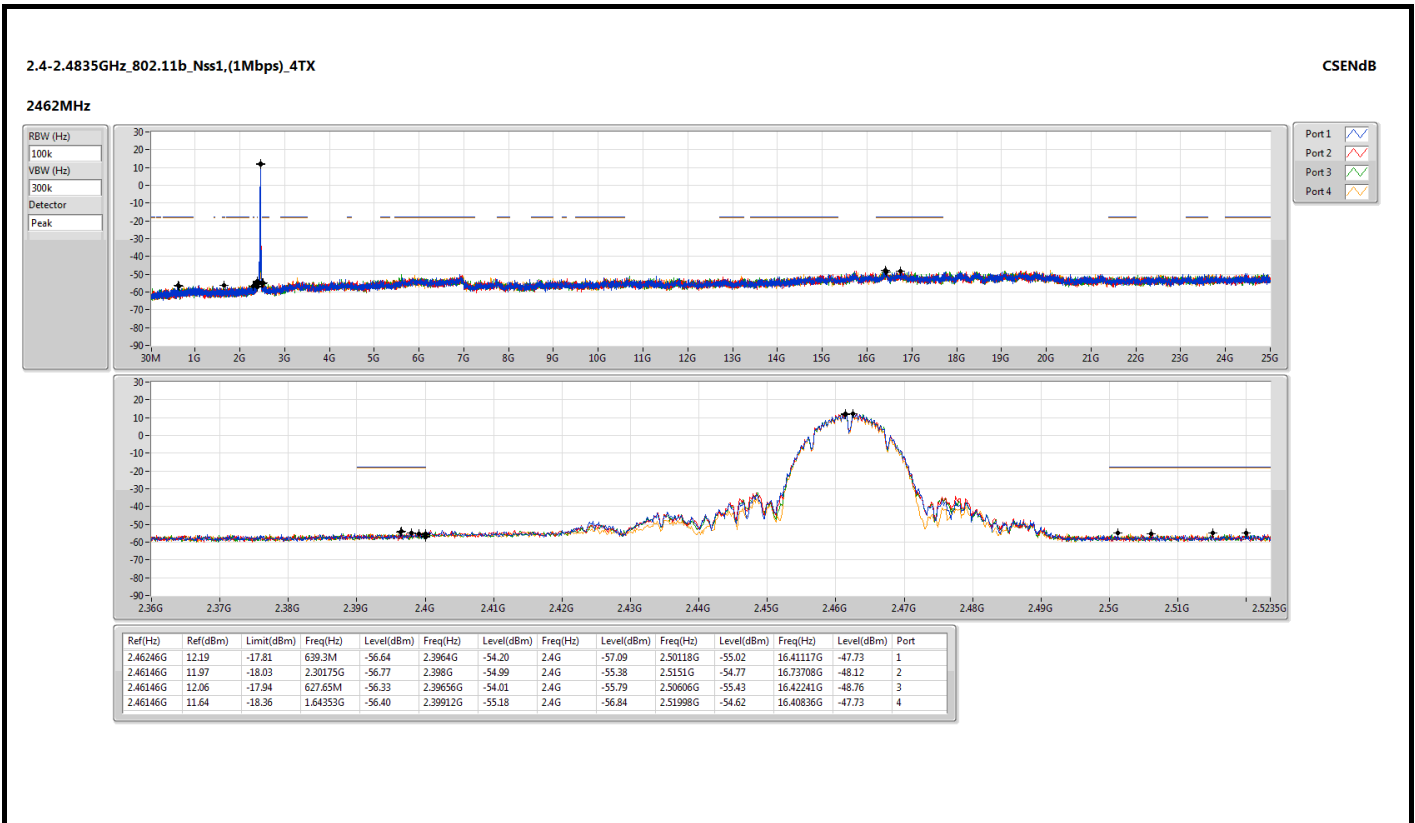
RBW (Hz)  
100k

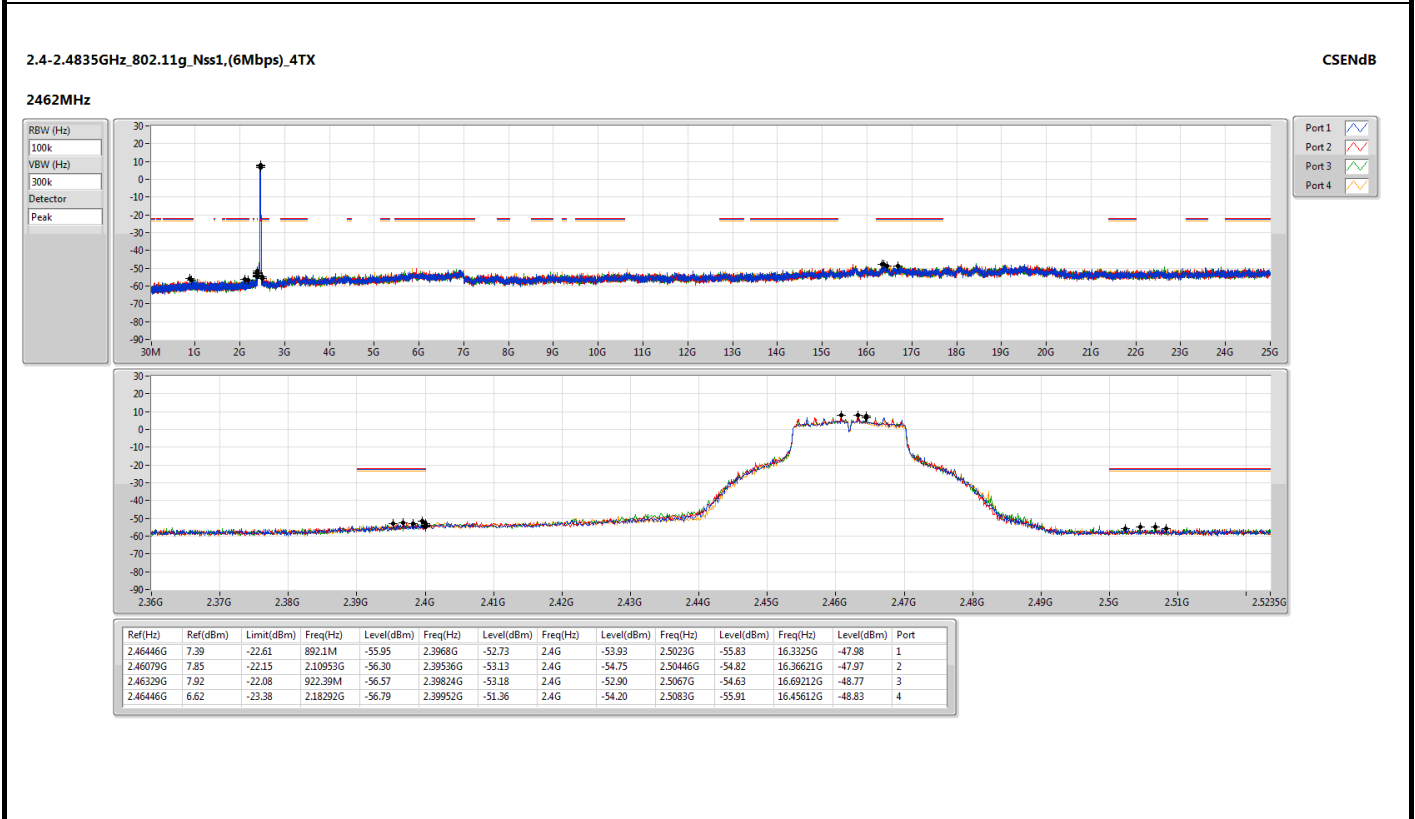
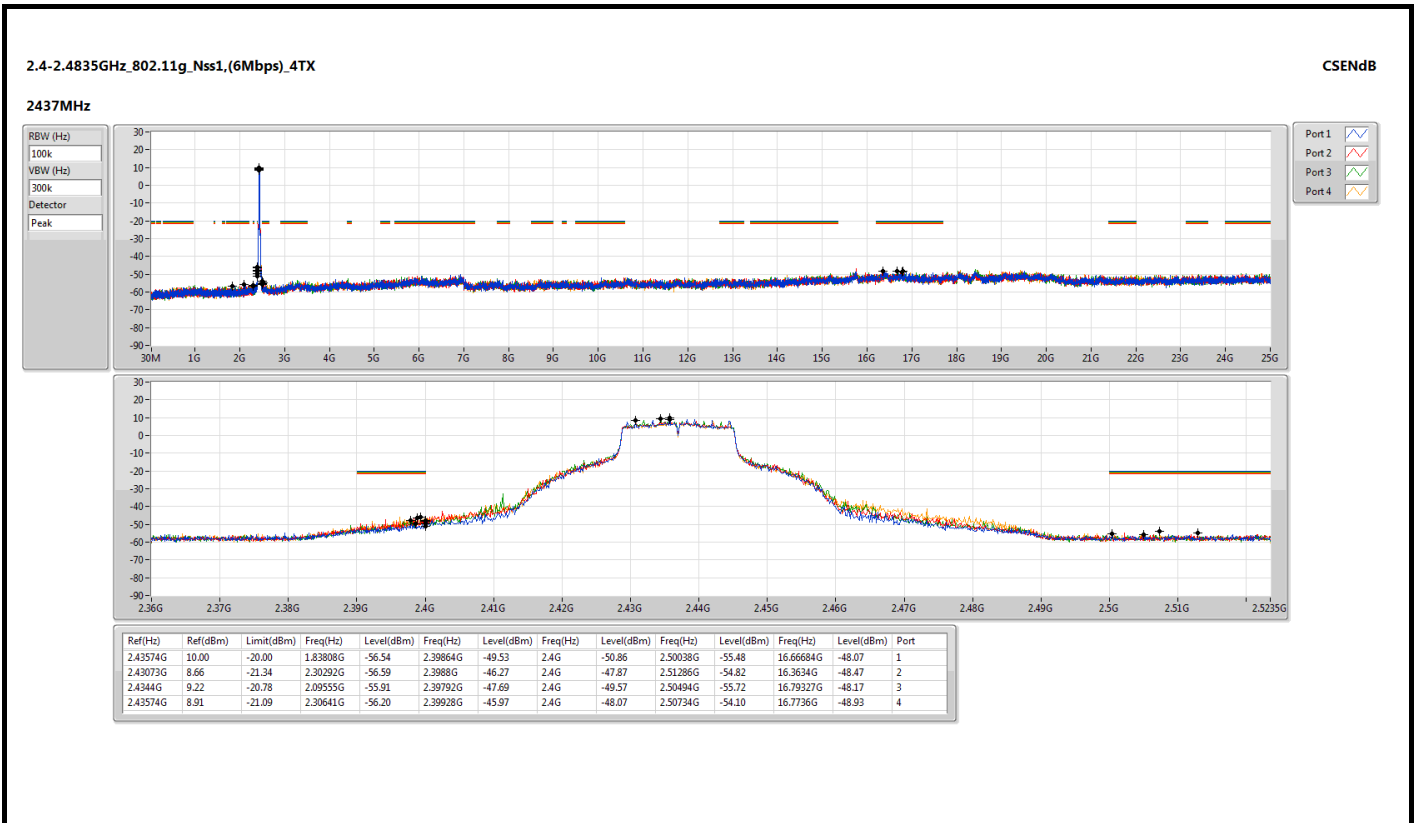
VBW (Hz)  
300k

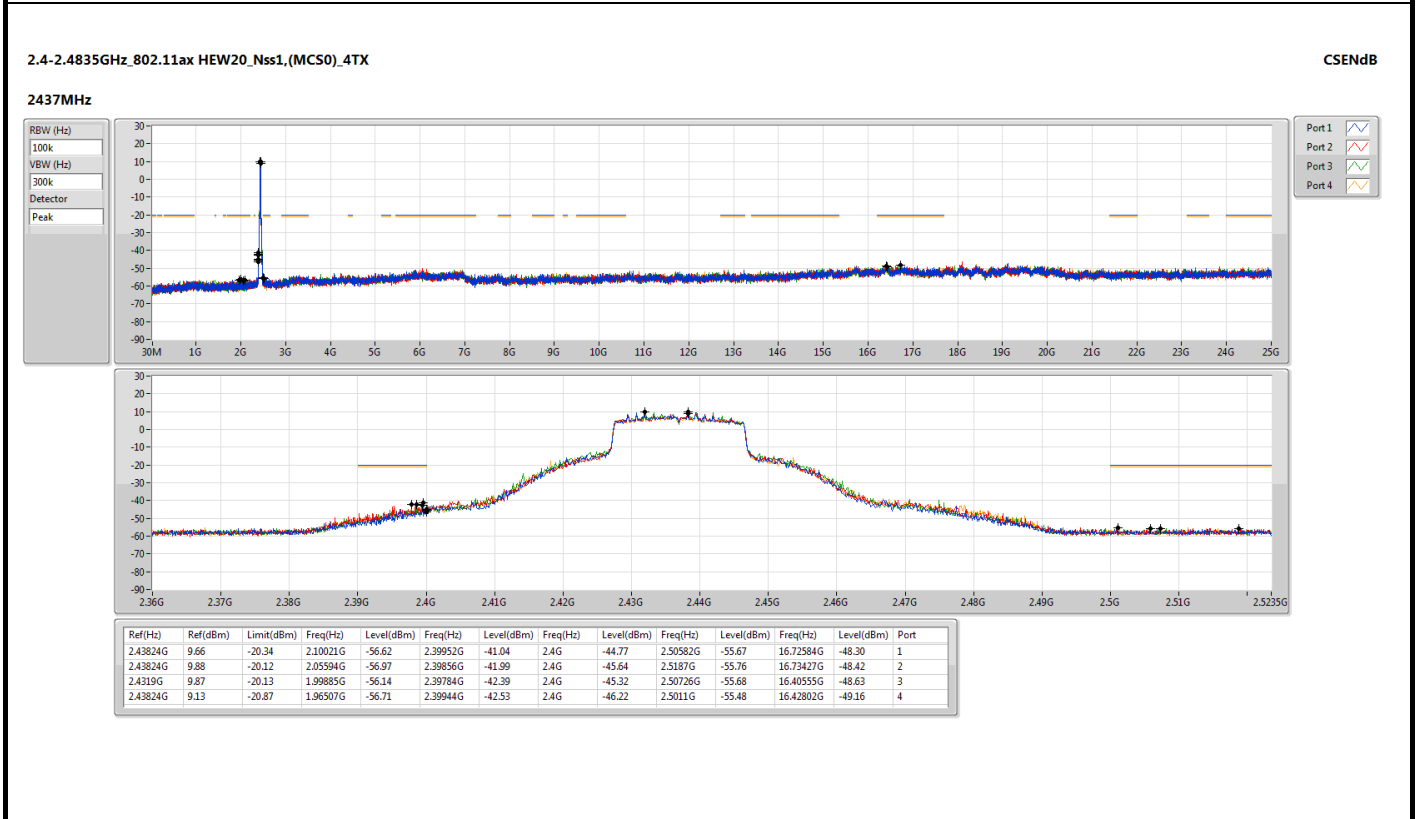
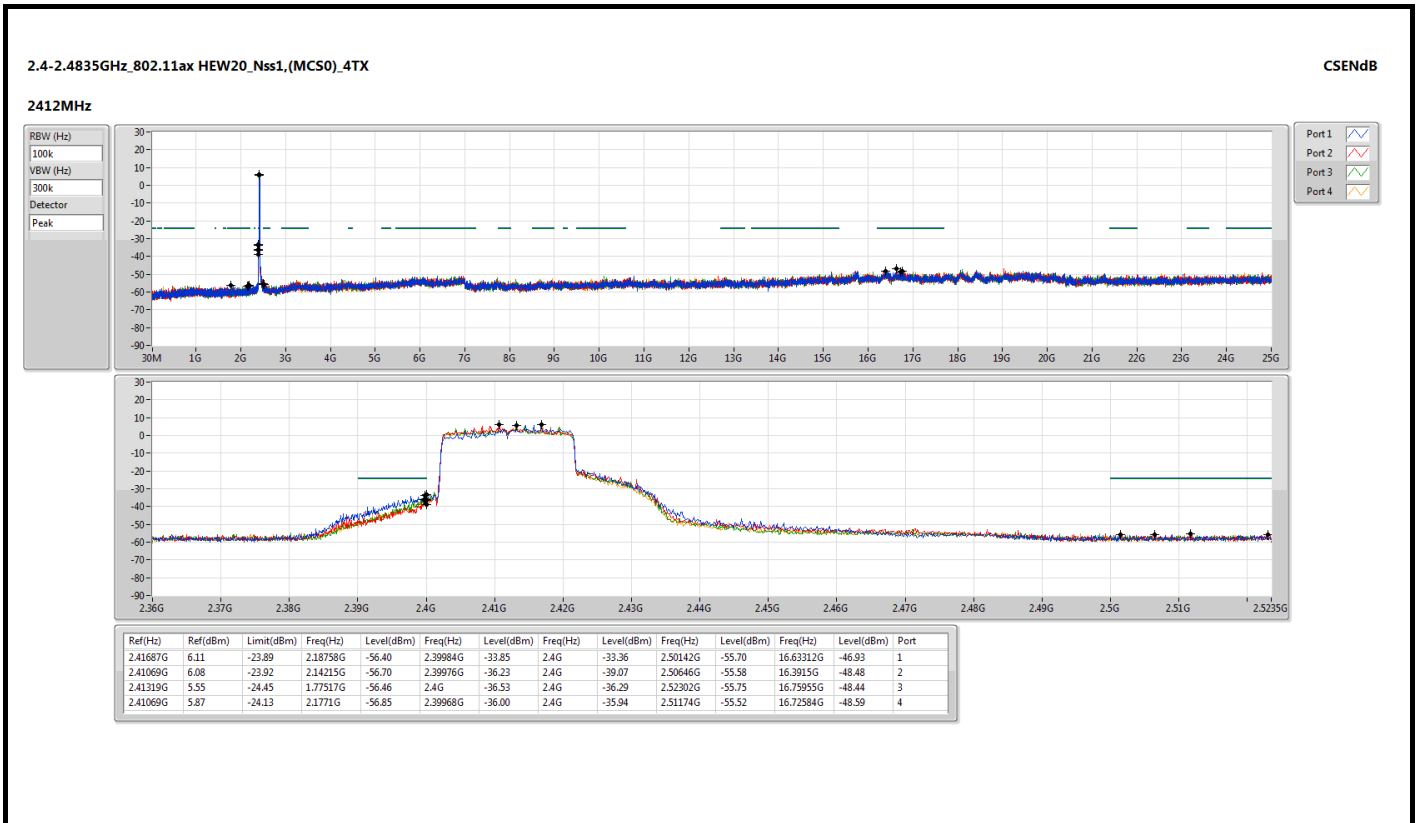
Detector  
Peak

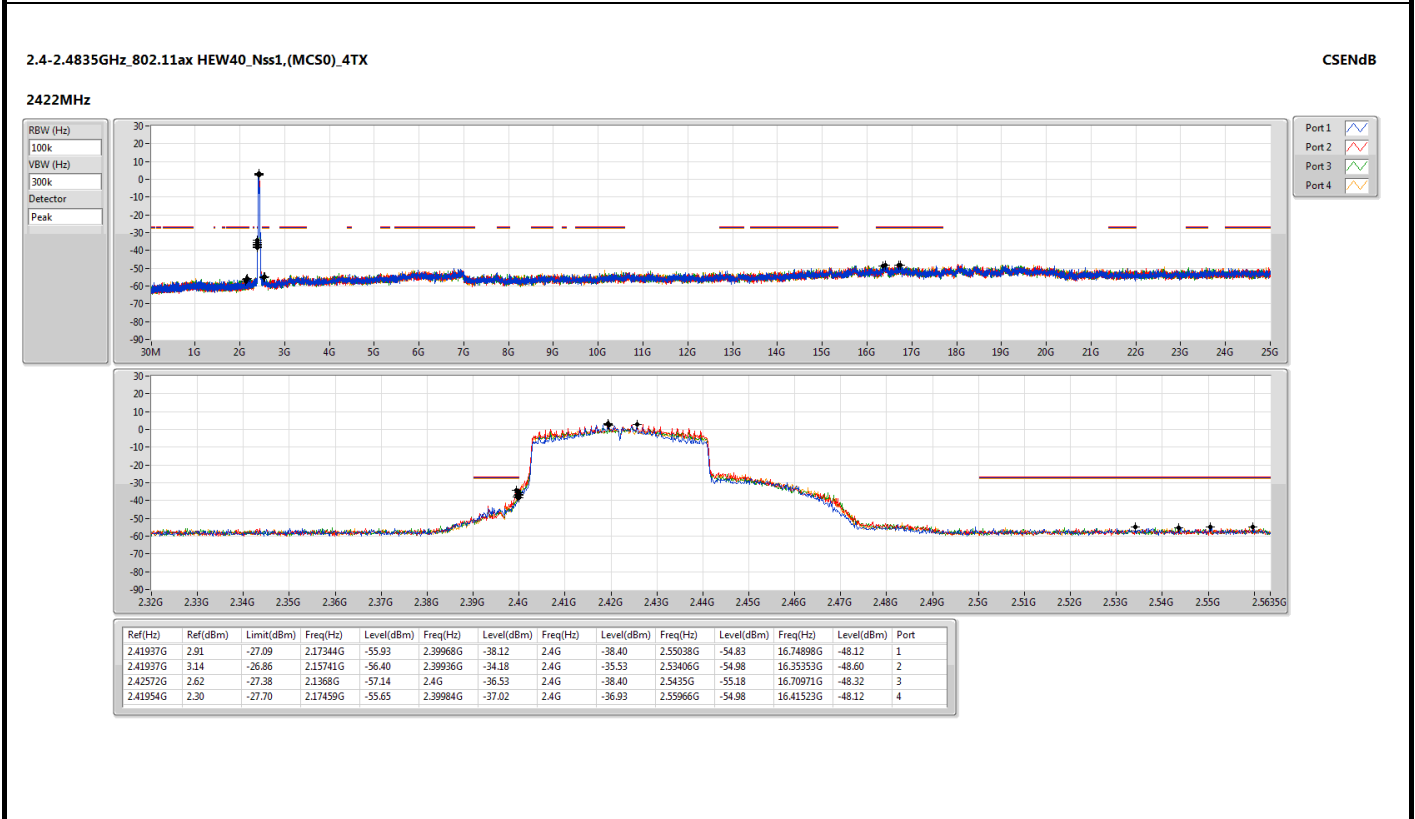
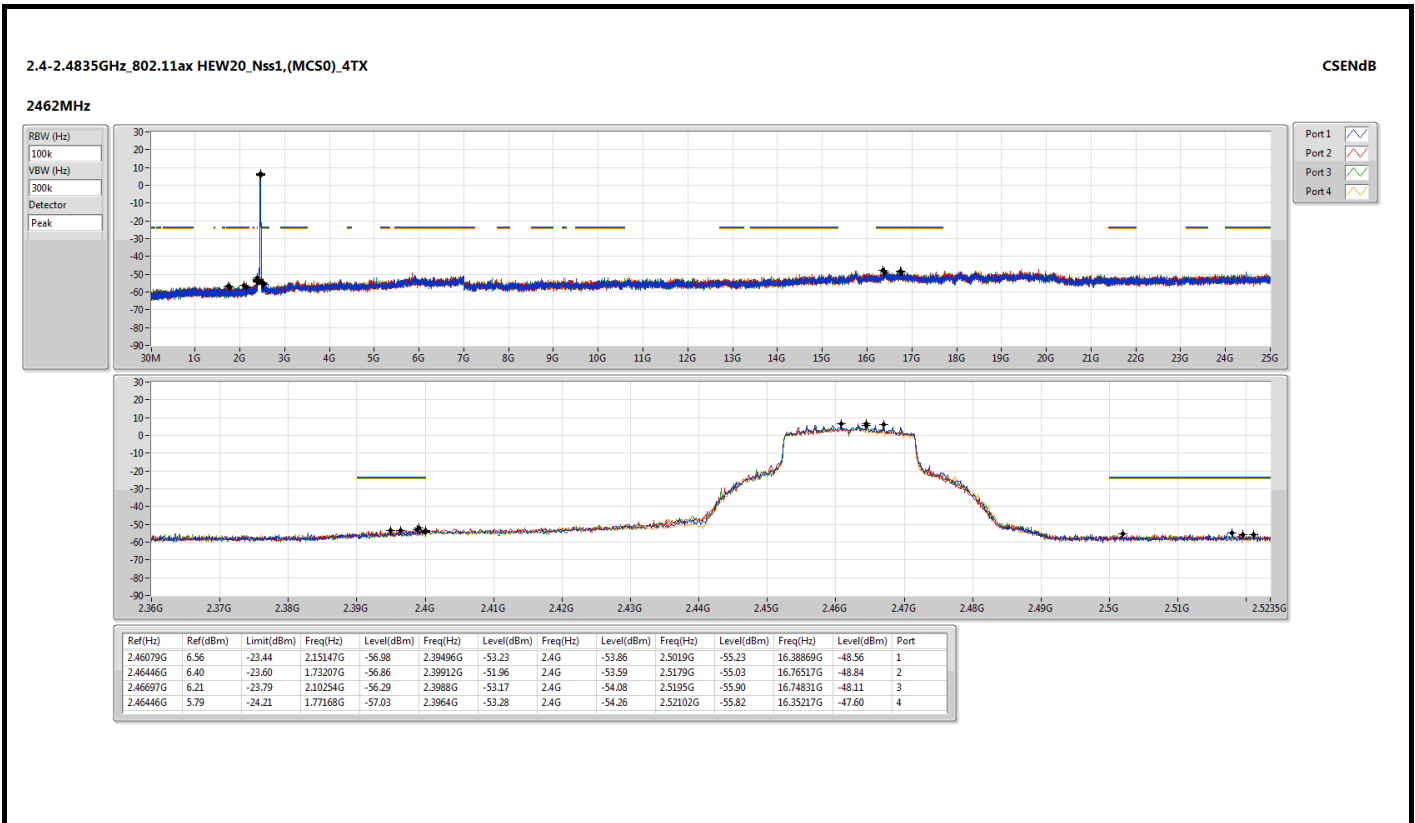


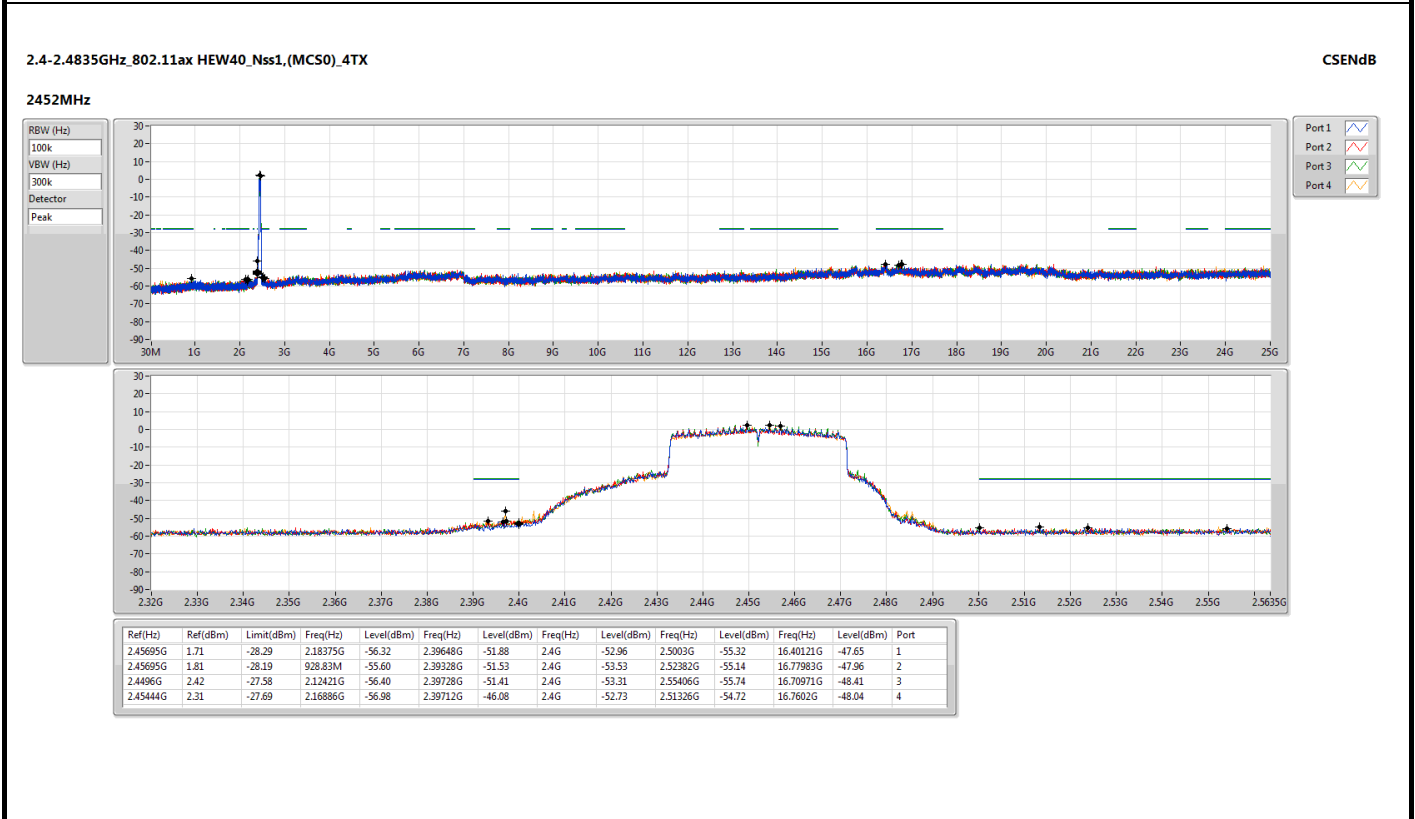
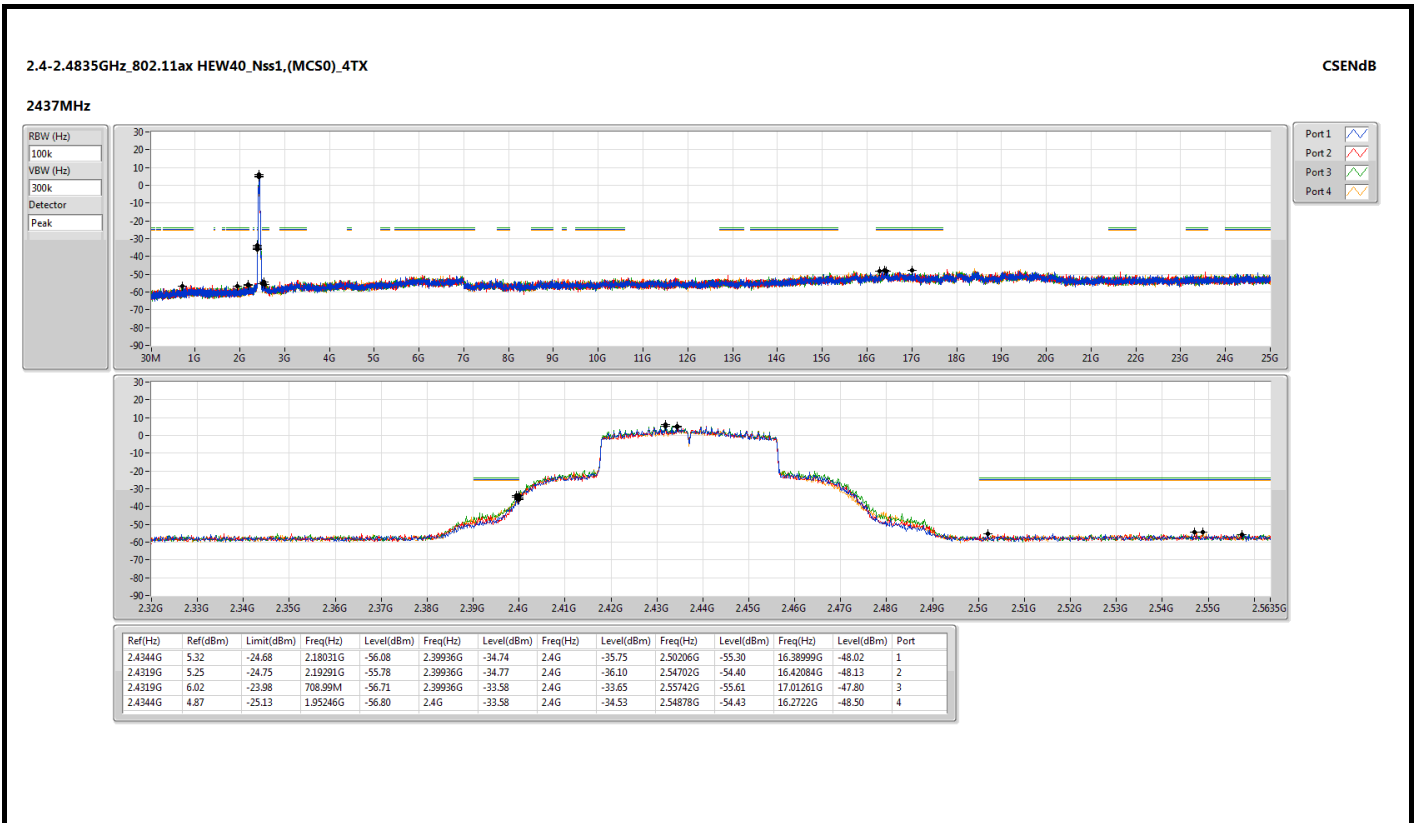
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43641G	11.96	-18.04	893.27M	-55.12	2.39904G	-50.62	2.4G	-52.11	2.52238G	-55.64	16.31283G	-49.01	1
2.43657G	12.61	-17.39	2.12817G	-57.27	2.39976G	-50.77	2.4G	-51.25	2.50398G	-55.01	16.40836G	-46.87	2
2.43657G	12.81	-17.19	1.78333G	-57.01	2.3992G	-50.56	2.4G	-53.00	2.5027G	-55.60	16.41117G	-48.68	3
2.43591G	11.61	-18.39	843.17M	-56.58	2.39768G	-51.18	2.4G	-53.01	2.51406G	-54.53	16.39993G	-48.56	4











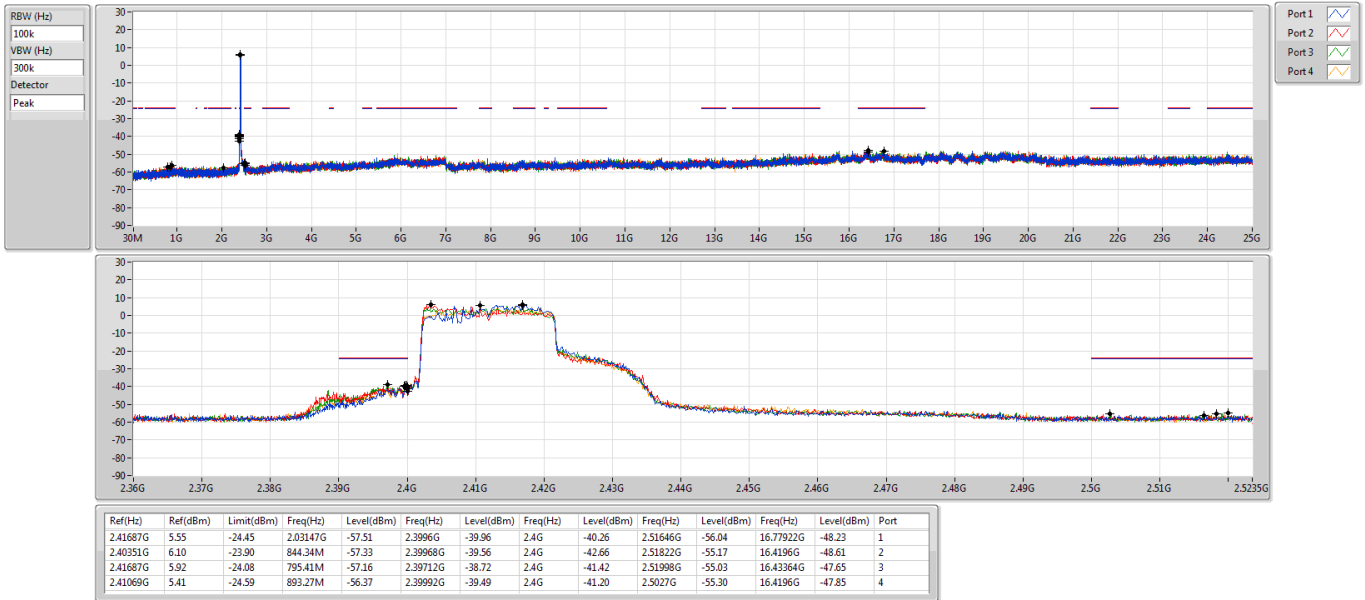


Beamforming mode

2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

CSEndB

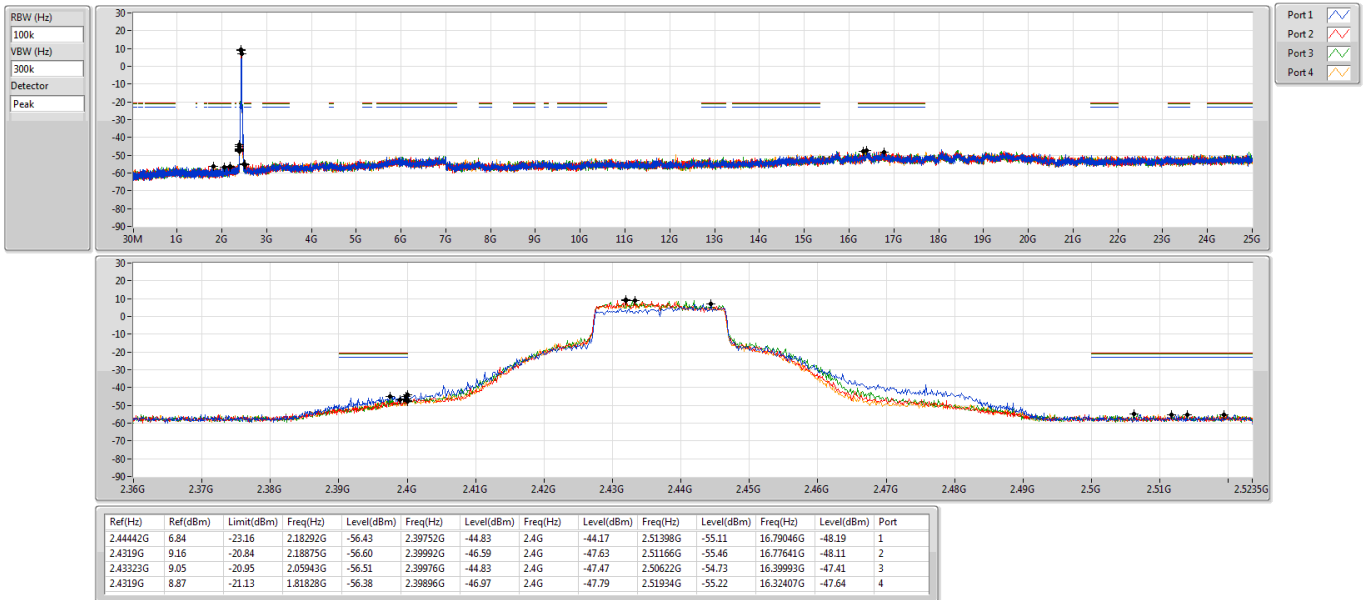
2412MHz

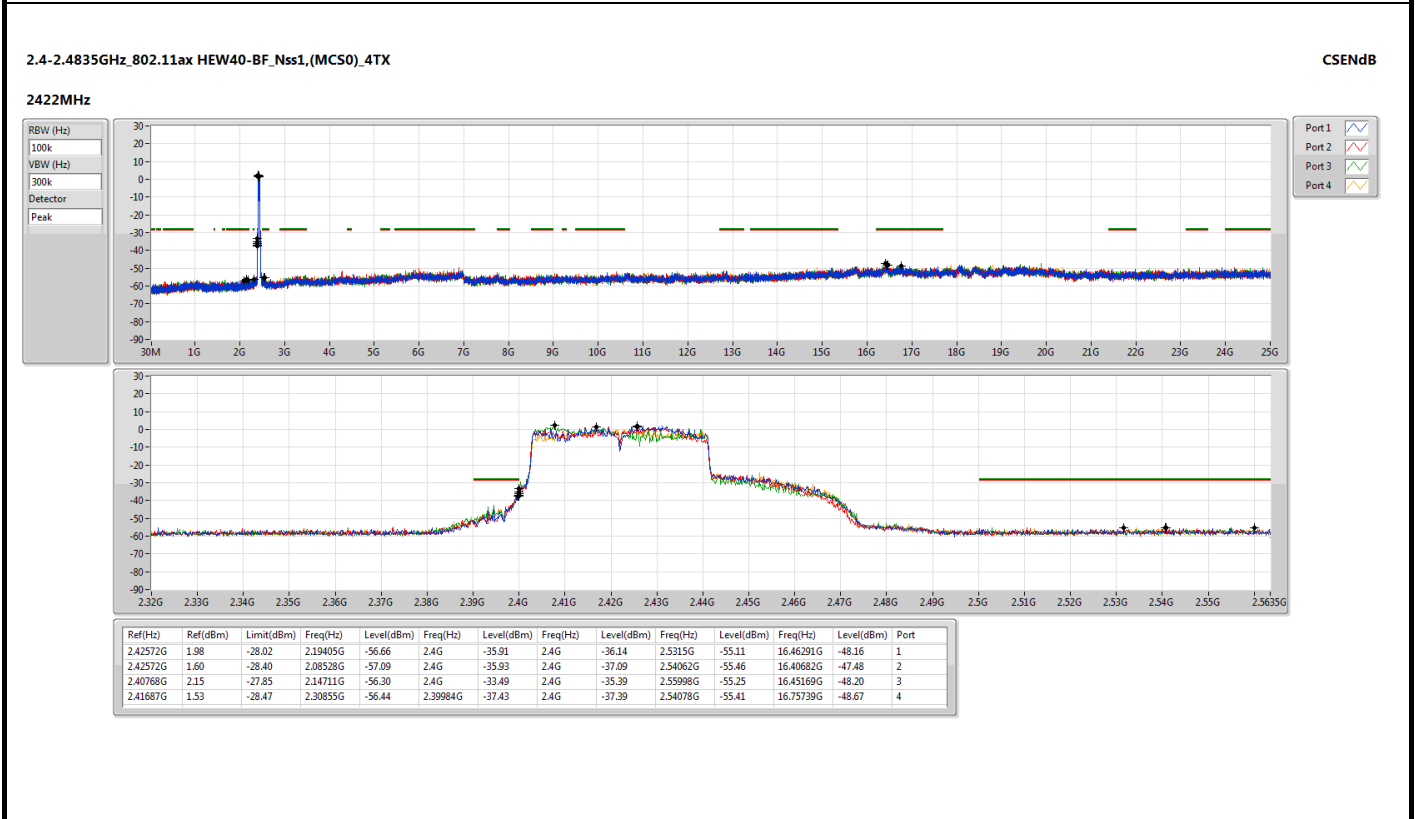
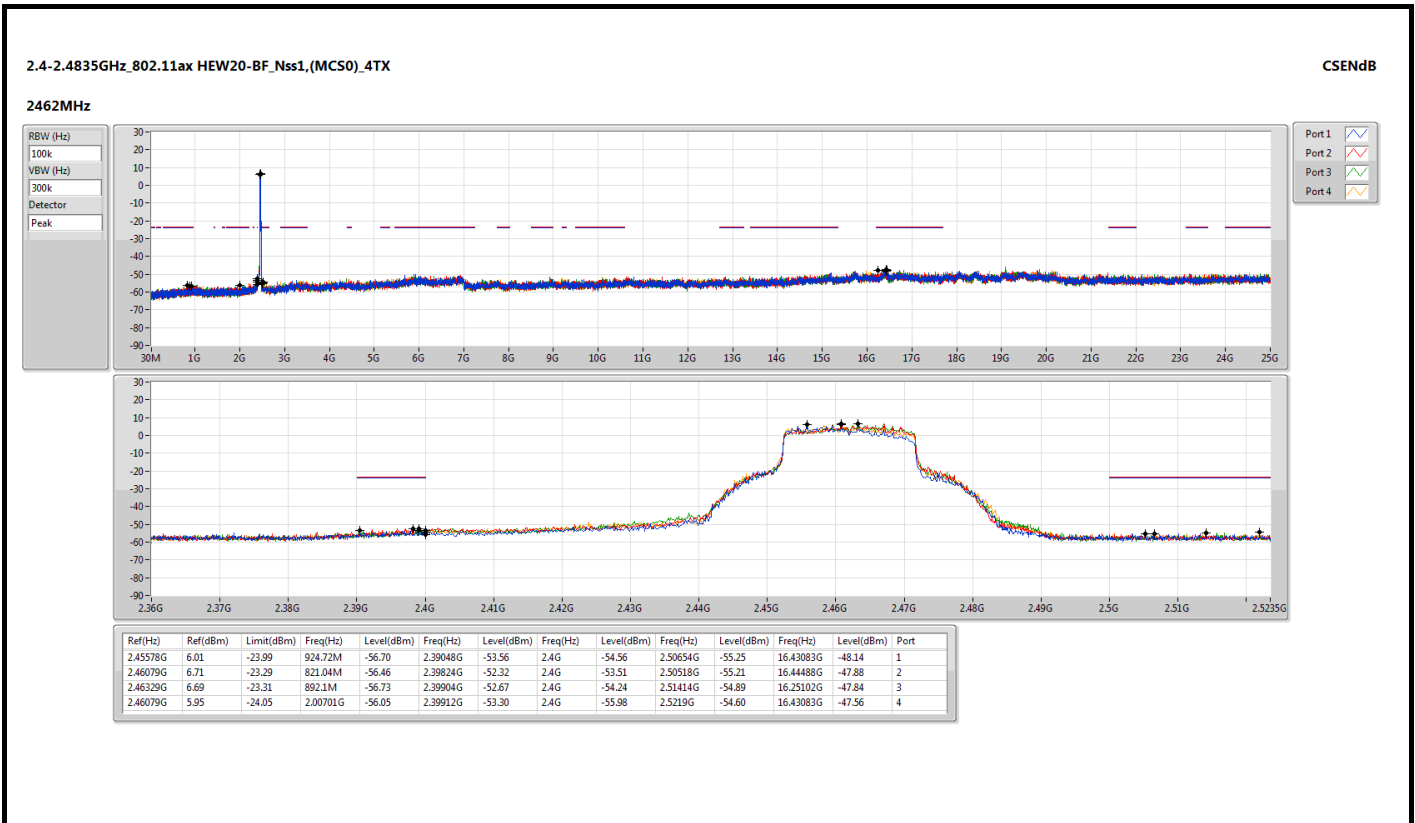


2.4-2.4835GHz\_802.11ax HEW20-BF\_Nss1,(MCS0)\_4TX

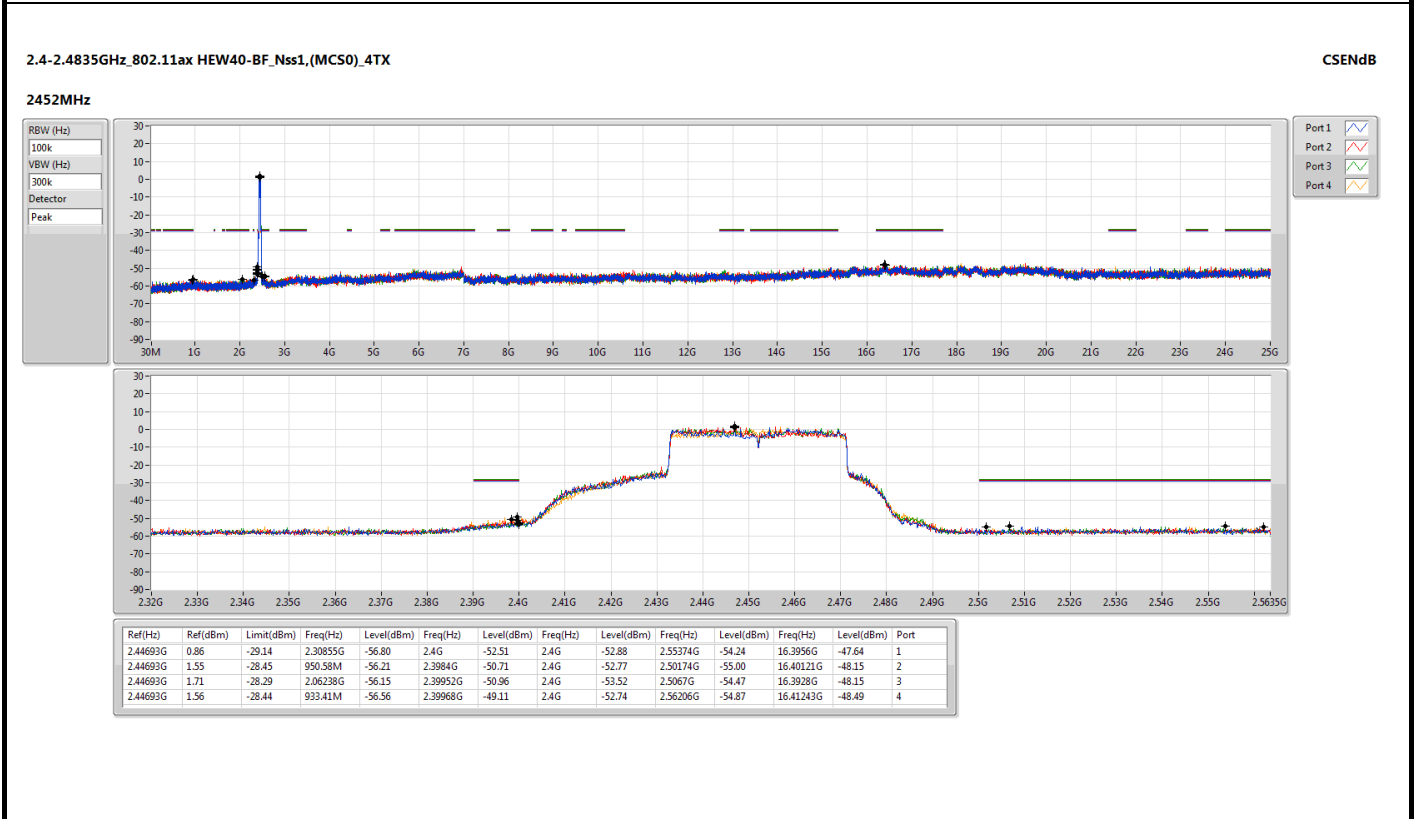
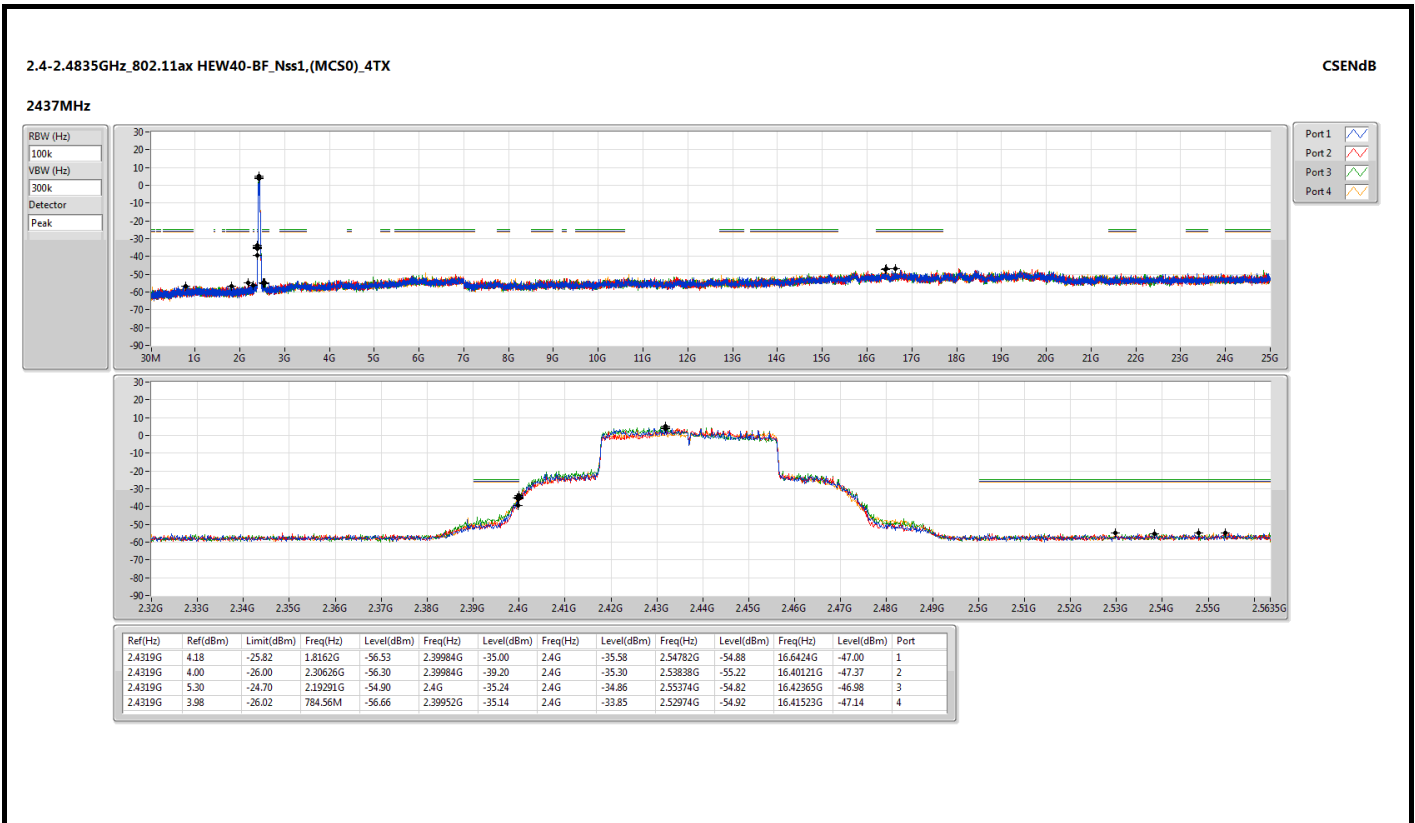
CSEndB

2437MHz







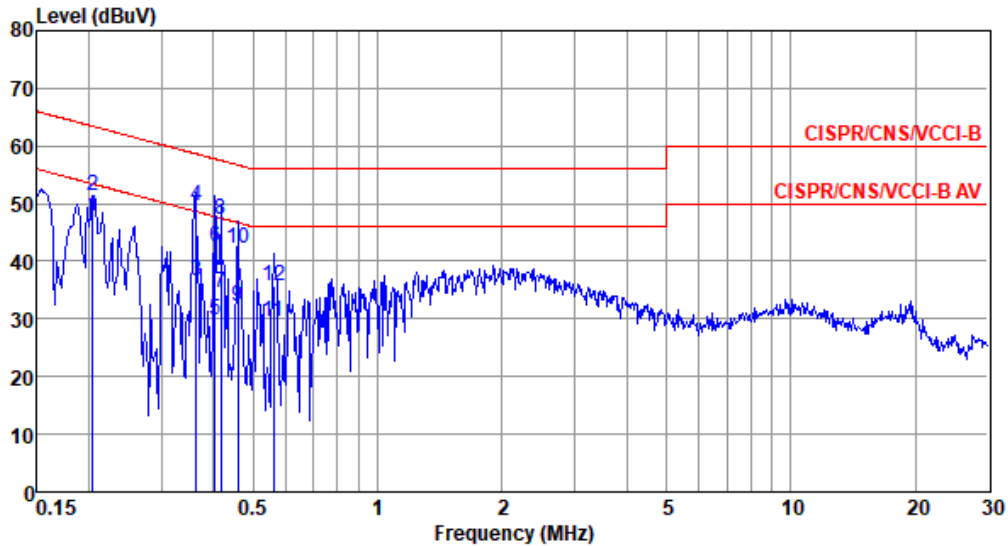




Non-beamforming mode

Modulation Mode	11b	Test Freq. (MHz)	2437
Power Phase	Line		

Test by : Joe Liao      Temperature: 22°C      Humidity: 63%



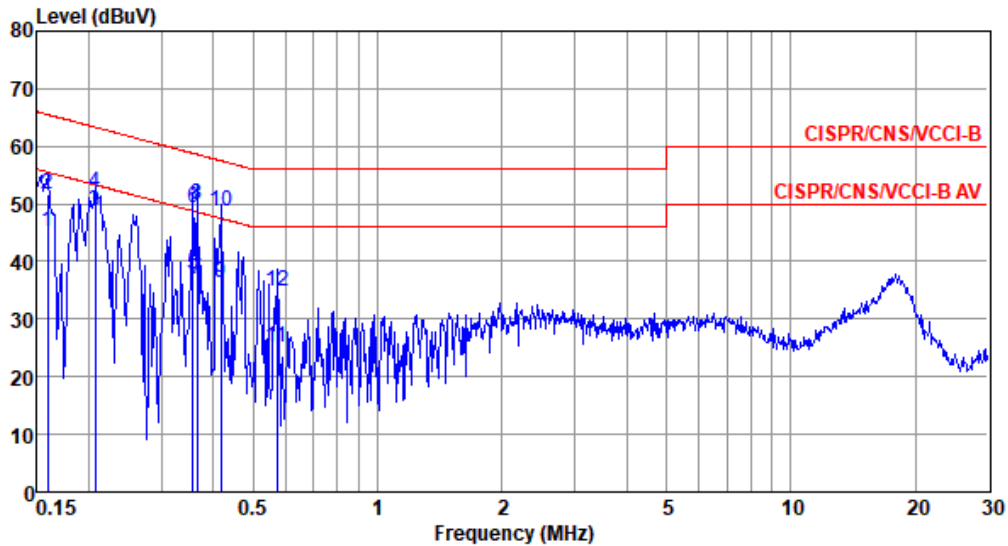
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1*	0.204	47.85	53.45	-5.60	37.98	9.62	0.06	0.19	Average
2	0.204	51.44	63.45	-12.01	41.57	9.62	0.06	0.19	QP
3	0.363	36.60	48.65	-12.05	26.64	9.62	0.06	0.28	Average
4	0.363	49.55	58.65	-9.10	39.59	9.62	0.06	0.28	QP
5	0.404	29.87	47.77	-17.90	19.89	9.62	0.06	0.30	Average
6	0.404	42.64	57.77	-15.13	32.66	9.62	0.06	0.30	QP
7	0.417	34.39	47.51	-13.12	24.41	9.62	0.06	0.30	Average
8	0.417	47.33	57.51	-10.18	37.35	9.62	0.06	0.30	QP
9	0.459	32.11	46.71	-14.60	22.12	9.62	0.07	0.30	Average
10	0.459	42.18	56.71	-14.53	32.19	9.62	0.07	0.30	QP
11	0.561	29.65	46.00	-16.35	19.64	9.62	0.08	0.31	Average
12	0.561	35.65	56.00	-20.35	25.64	9.62	0.08	0.31	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 Note 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Modulation Mode	11b	Test Freq. (MHz)	2437
Power Phase	Neutral		

Test by : Joe Liao      Temperature: 22°C      Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	45.29	55.52	-10.23	35.42	9.63	0.06	0.18	Average
2	0.159	51.79	65.52	-13.73	41.92	9.63	0.06	0.18	QP
3*	0.207	48.85	53.32	-4.47	38.96	9.63	0.06	0.20	Average
4	0.207	52.03	63.32	-11.29	42.14	9.63	0.06	0.20	QP
5	0.358	37.82	48.78	-10.96	27.86	9.62	0.06	0.28	Average
6	0.358	49.16	58.78	-9.62	39.20	9.62	0.06	0.28	QP
7	0.365	36.79	48.61	-11.82	26.82	9.62	0.06	0.29	Average
8	0.365	49.77	58.61	-8.84	39.80	9.62	0.06	0.29	QP
9	0.417	36.41	47.51	-11.10	26.43	9.62	0.06	0.30	Average
10	0.417	48.82	57.51	-8.69	38.84	9.62	0.06	0.30	QP
11	0.570	25.14	46.00	-20.86	15.13	9.62	0.08	0.31	Average
12	0.570	34.80	56.00	-21.20	24.79	9.62	0.08	0.31	QP

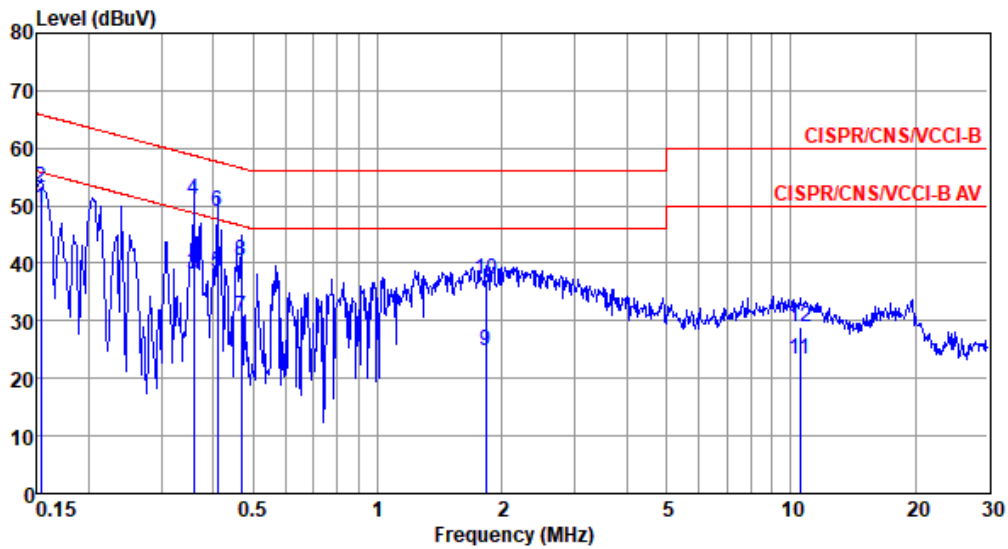
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 Note 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Beamforming mode

Modulation Mode	ax HE20	Test Freq. (MHz)	2437
Power Phase	Line		

Test by : Joe Liao      Temperature: 22°C      Humidity: 63%



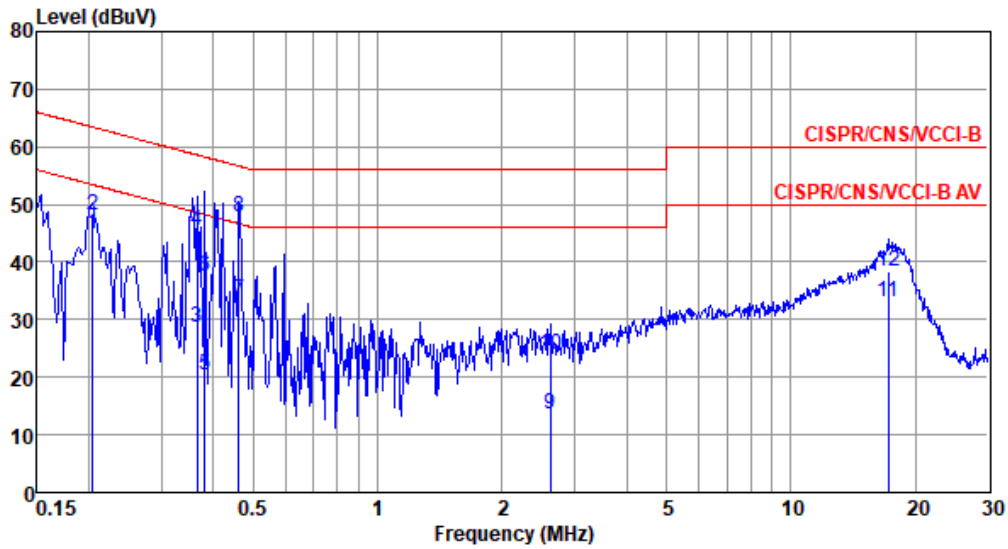
	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1*	0.153	49.55	55.82	-6.27	39.68	9.63	0.06	0.18	Average
2	0.153	53.15	65.82	-12.67	43.28	9.63	0.06	0.18	QP
3	0.360	38.05	48.74	-10.69	28.09	9.62	0.06	0.28	Average
4	0.360	50.99	58.74	-7.75	41.03	9.62	0.06	0.28	QP
5	0.410	38.45	47.64	-9.19	28.47	9.62	0.06	0.30	Average
6	0.410	48.91	57.64	-8.73	38.93	9.62	0.06	0.30	QP
7	0.469	30.62	46.54	-15.92	20.62	9.62	0.07	0.31	Average
8	0.469	40.53	56.54	-16.01	30.53	9.62	0.07	0.31	QP
9	1.829	24.84	46.00	-21.16	14.72	9.63	0.13	0.36	Average
10	1.829	37.13	56.00	-18.87	27.01	9.63	0.13	0.36	QP
11	10.508	23.23	50.00	-26.77	12.72	9.69	0.37	0.45	Average
12	10.508	28.85	60.00	-31.15	18.34	9.69	0.37	0.45	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).



Modulation Mode	ax HE20	Test Freq. (MHz)	2437
Power Phase	Neutral		

Test by : Joe Liao      Temperature: 22°C      Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1*	0.204	44.77	53.45	-8.68	34.89	9.63	0.06	0.19	Average
2	0.204	48.00	63.45	-15.45	38.12	9.63	0.06	0.19	QP
3	0.365	28.56	48.61	-20.05	18.59	9.62	0.06	0.29	Average
4	0.365	45.43	58.61	-13.18	35.46	9.62	0.06	0.29	QP
5	0.381	20.23	48.25	-28.02	10.26	9.62	0.06	0.29	Average
6	0.381	37.51	58.25	-20.74	27.54	9.62	0.06	0.29	QP
7	0.461	33.34	46.67	-13.33	23.35	9.62	0.07	0.30	Average
8	0.461	47.79	56.67	-8.88	37.80	9.62	0.07	0.30	QP
9	2.622	13.50	46.00	-32.50	3.33	9.64	0.15	0.38	Average
10	2.622	24.04	56.00	-31.96	13.87	9.64	0.15	0.38	QP
11	17.199	33.18	50.00	-16.82	22.43	9.78	0.47	0.50	Average
12	17.199	38.40	60.00	-21.60	27.65	9.78	0.47	0.50	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).



**Non-beamforming mode**

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.064M	16.571M	16M6D1D	19.668M	16.439M
802.11ax HEW20_Nss1,(MCS0)_4TX	31.284M	19.07M	19M1D1D	19.866M	18.861M
802.11ax HEW40_Nss1,(MCS0)_4TX	59.928M	37.961M	38M0D1D	39.204M	37.481M
802.11ax HEW80_Nss1,(MCS0)_4TX	80.256M	76.642M	76M6D1D	79.992M	76.522M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	19.998M	16.597M	16M6D1D	19.8M	16.439M
802.11ax HEW20_Nss1,(MCS0)_4TX	26.598M	19.07M	19M1D1D	21.45M	18.981M
802.11ax HEW40_Nss1,(MCS0)_4TX	39.336M	37.541M	37M5D1D	39.072M	37.361M
802.11ax HEW80_Nss1,(MCS0)_4TX	80.256M	76.522M	76M5D1D	79.992M	76.402M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	31.812M	16.835M	16M8D1D	15.525M	13.328M
802.11ax HEW20_Nss1,(MCS0)_4TX	30.756M	19.19M	19M2D1D	15.915M	14.528M
802.11ax HEW40_Nss1,(MCS0)_4TX	52.008M	37.721M	37M7D1D	34.615M	33.548M
802.11ax HEW80_Nss1,(MCS0)_4TX	87.912M	77.121M	77M1D1D	75.15M	72.864M
802.11ax HEW160_Nss1,(MCS0)_4TX	162.096M	155.202M	155MD1D	161.568M	154.723M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.368M	20.74M	20M7D1D	3.14M	3.718M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.074M	21.409M	21M4D1D	4.48M	4.578M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.884M	38.201M	38M2D1D	4M	4.078M
802.11ax HEW80_Nss1,(MCS0)_4TX	74.976M	77.001M	77M0D1D	3.88M	4.238M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;  
 Max-OBW = Maximum 99% occupied bandwidth;  
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Minimum 26dB down bandwidth for other band;  
 Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.8M	16.518M	19.668M	16.439M	19.866M	16.492M	20.064M	16.465M
5200MHz	Pass	Inf	19.932M	16.571M	19.998M	16.518M	19.8M	16.465M	19.8M	16.439M
5240MHz	Pass	Inf	20.064M	16.571M	19.734M	16.571M	19.866M	16.492M	19.8M	16.518M
5260MHz	Pass	Inf	19.866M	16.545M	19.866M	16.465M	19.8M	16.439M	19.866M	16.439M
5300MHz	Pass	Inf	19.866M	16.597M	19.866M	16.518M	19.932M	16.465M	19.8M	16.439M
5320MHz	Pass	Inf	19.998M	16.545M	19.8M	16.492M	19.8M	16.465M	19.866M	16.465M
5500MHz	Pass	Inf	26.202M	16.808M	29.106M	16.756M	31.812M	16.835M	28.248M	16.808M
5580MHz	Pass	Inf	21.582M	16.676M	20.856M	16.624M	20.724M	16.624M	20.922M	16.597M
5700MHz	Pass	Inf	27.258M	16.835M	26.532M	16.835M	24.684M	16.782M	24.948M	16.729M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.615M	13.358M	15.645M	13.328M	15.54M	13.343M	15.525M	13.328M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	3.758M	3.16M	3.718M	3.14M	3.718M	3.16M	3.718M
5745MHz	Pass	500k	16.302M	20.661M	16.302M	18.444M	16.302M	18.84M	16.302M	20.74M
5785MHz	Pass	500k	16.368M	17.072M	16.302M	16.914M	16.368M	16.914M	16.368M	17.442M
5825MHz	Pass	500k	16.368M	17.442M	16.302M	17.151M	16.302M	18.154M	16.368M	17.89M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	27.192M	19.01M	25.212M	19.07M	26.4M	19.04M	22.374M	19.07M
5200MHz	Pass	Inf	22.902M	19.01M	22.704M	19.01M	24.024M	19.01M	31.284M	19.01M
5240MHz	Pass	Inf	19.866M	18.861M	19.866M	18.861M	19.866M	18.861M	19.866M	18.861M
5260MHz	Pass	Inf	23.958M	19.07M	22.77M	19.01M	22.77M	19.01M	23.562M	19.04M
5300MHz	Pass	Inf	22.704M	19.01M	21.45M	19.04M	22.308M	19.01M	23.958M	19.04M
5320MHz	Pass	Inf	24.354M	19.04M	26.598M	18.981M	21.714M	19.04M	22.836M	19.04M
5500MHz	Pass	Inf	30.756M	19.19M	28.182M	19.16M	30.096M	19.16M	27.456M	19.16M
5580MHz	Pass	Inf	22.308M	19.07M	21.978M	19.1M	21.582M	19.07M	21.846M	19.07M
5700MHz	Pass	Inf	27.06M	19.19M	25.74M	19.1M	28.116M	19.16M	27.786M	19.13M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.99M	14.558M	15.915M	14.558M	16.185M	14.528M	16.38M	14.573M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.598M	4.5M	4.578M	4.48M	4.598M	4.52M	4.578M
5745MHz	Pass	500k	18.942M	21.409M	18.942M	19.79M	19.008M	19.97M	18.942M	21.349M
5785MHz	Pass	500k	19.008M	19.37M	18.942M	19.31M	18.942M	19.34M	19.074M	19.49M
5825MHz	Pass	500k	18.942M	19.28M	18.81M	19.25M	18.942M	19.58M	19.008M	19.46M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.204M	37.541M	39.336M	37.481M	39.336M	37.481M	39.336M	37.481M
5230MHz	Pass	Inf	59.532M	37.901M	53.988M	37.841M	59.928M	37.961M	59.268M	37.841M
5270MHz	Pass	Inf	39.072M	37.541M	39.336M	37.481M	39.336M	37.481M	39.204M	37.421M
5310MHz	Pass	Inf	39.336M	37.481M	39.072M	37.361M	39.204M	37.421M	39.072M	37.481M
5510MHz	Pass	Inf	42.636M	37.601M	43.956M	37.661M	41.976M	37.661M	41.844M	37.661M
5590MHz	Pass	Inf	39.336M	37.541M	39.204M	37.541M	39.336M	37.541M	39.204M	37.601M
5670MHz	Pass	Inf	49.236M	37.721M	46.068M	37.721M	41.448M	37.721M	52.008M	37.721M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	34.825M	33.618M	34.72M	33.583M	34.615M	33.583M	34.86M	33.548M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	4.078M	4.02M	4.078M	4M	4.078M	4.06M	4.078M
5755MHz	Pass	500k	37.884M	37.901M	33.66M	37.721M	34.716M	37.721M	35.772M	37.841M
5795MHz	Pass	500k	35.508M	38.141M	33.792M	38.021M	35.772M	38.081M	35.244M	38.201M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	79.992M	76.522M	79.992M	76.522M	80.256M	76.522M	80.256M	76.642M
5290MHz	Pass	Inf	80.256M	76.522M	80.256M	76.522M	80.256M	76.522M	79.992M	76.402M
5530MHz	Pass	Inf	87.912M	77.001M	80.784M	76.882M	87.384M	77.001M	85.8M	77.121M
5610MHz	Pass	Inf	79.992M	76.882M	80.256M	77.001M	80.256M	76.762M	80.256M	76.882M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.3M	72.939M	75.15M	72.864M	75.15M	72.939M	75.225M	72.939M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.98M	4.778M	3.88M	4.258M	4.02M	4.238M	4M	5.137M
5775MHz	Pass	500k	74.184M	77.001M	74.976M	76.882M	71.016M	76.642M	74.976M	77.001M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5570MHz	Pass	Inf	162.096M	154.963M	162.096M	154.963M	162.096M	155.202M	161.568M	154.723M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth

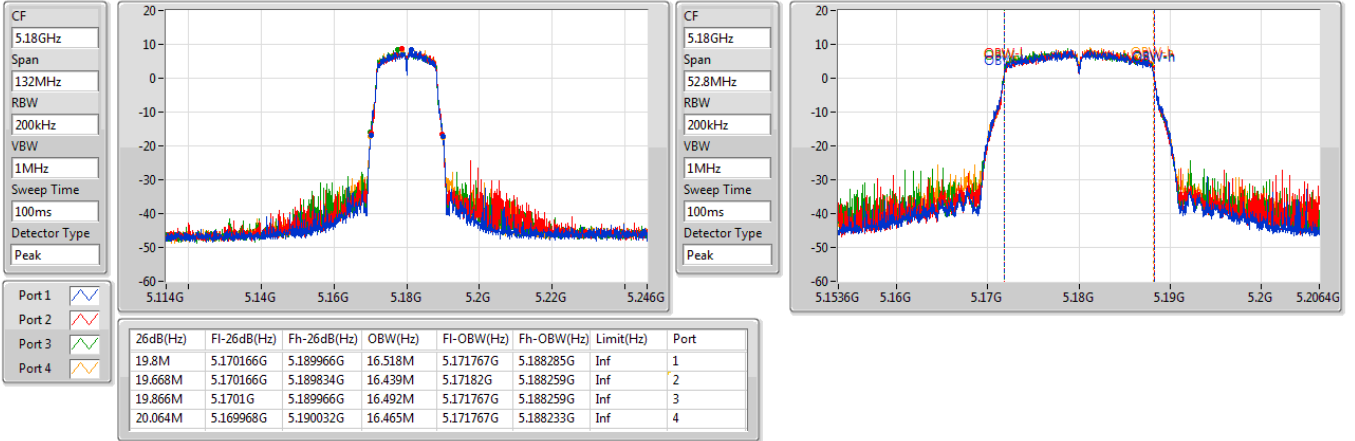




5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

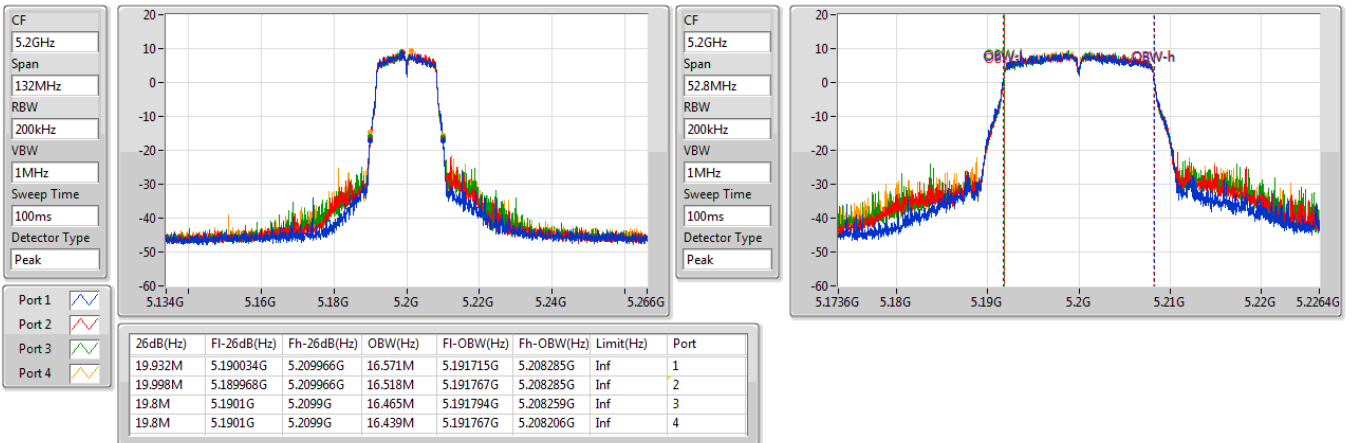
5180MHz



5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5200MHz



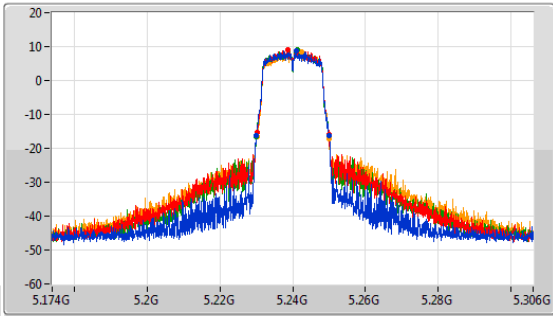


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

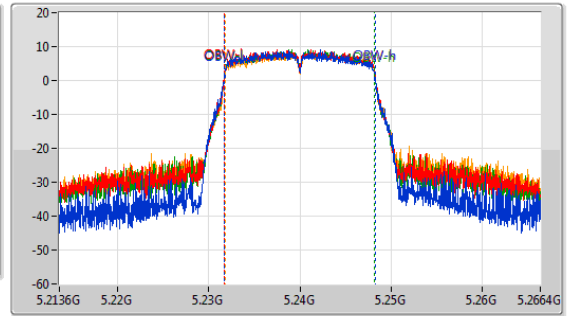
EBW

5240MHz

CF: 5.24GHz  
 Span: 132MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.24GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak

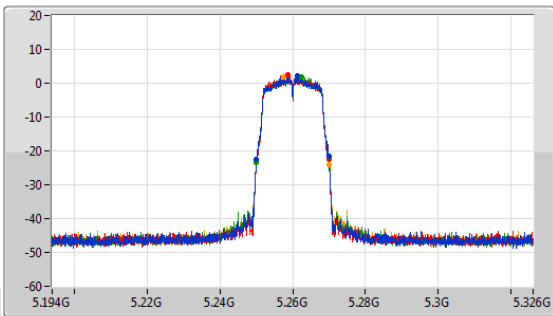


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

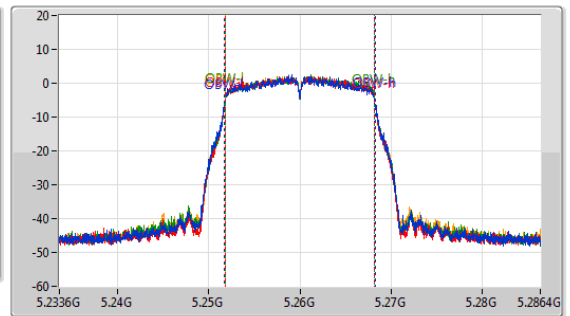
EBW

5260MHz

CF: 5.26GHz  
 Span: 132MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.26GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



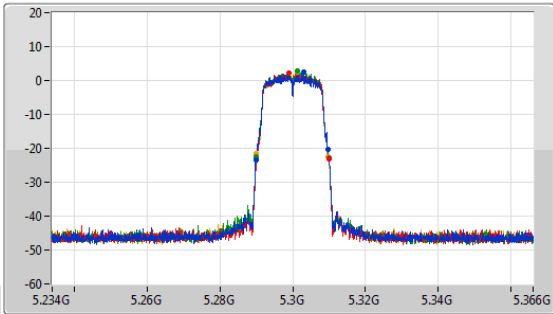


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

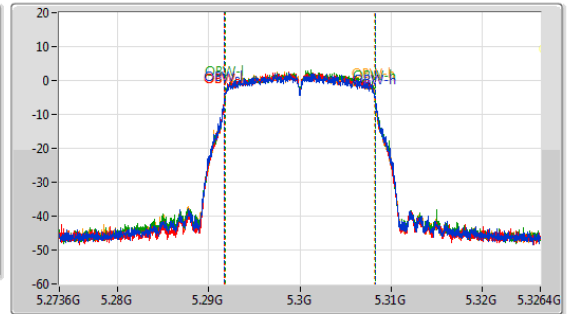
EBW

5300MHz

CF: 5.3GHz  
 Span: 132MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.3GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



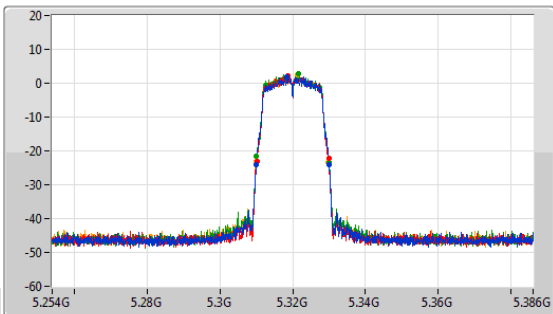
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.866M	5.289968G	5.309834G	16.597M	5.291688G	5.308285G	Inf	1
19.866M	5.2901G	5.309966G	16.518M	5.291741G	5.308259G	Inf	2
19.932M	5.290034G	5.309966G	16.465M	5.291794G	5.308259G	Inf	3
19.8M	5.290034G	5.309834G	16.439M	5.291767G	5.308206G	Inf	4

5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

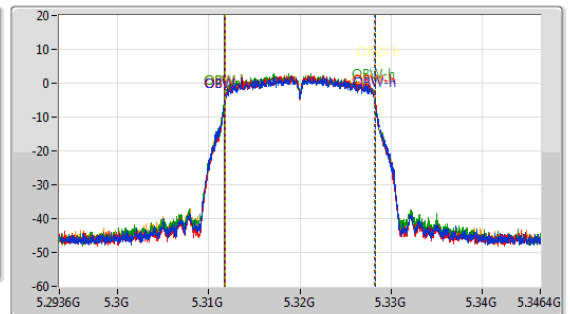
EBW

5320MHz

CF: 5.32GHz  
 Span: 132MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.32GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.998M	5.310034G	5.330032G	16.545M	5.311715G	5.328259G	Inf	1
19.8M	5.310166G	5.329966G	16.492M	5.311767G	5.328259G	Inf	2
19.8M	5.3101G	5.3299G	16.465M	5.311741G	5.328206G	Inf	3
19.866M	5.309968G	5.329834G	16.465M	5.311767G	5.328233G	Inf	4

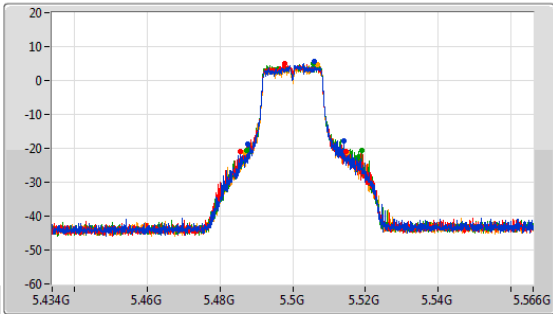


5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

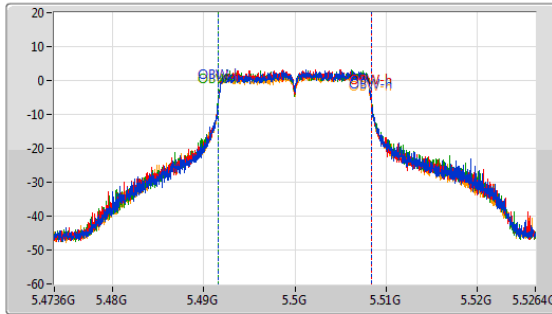
EBW

5500MHz

CF: 5.5GHz  
 Span: 132MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.5GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



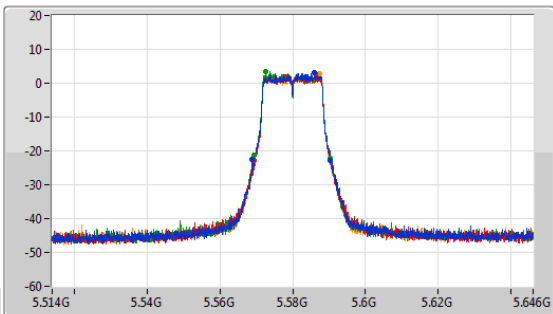
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.202M	5.48779G	5.513992G	16.808M	5.491635G	5.508444G	Inf	1
29.106M	5.485546G	5.514652G	16.756M	5.491635G	5.508391G	Inf	2
31.812M	5.487328G	5.51914G	16.835M	5.491609G	5.508444G	Inf	3
28.248M	5.4868G	5.515048G	16.808M	5.491635G	5.508444G	Inf	4

5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

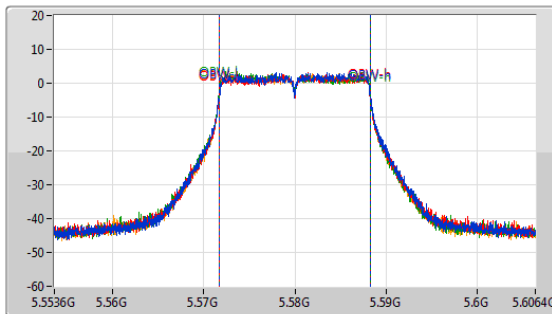
EBW

5580MHz

CF: 5.58GHz  
 Span: 132MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.58GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.582M	5.568846G	5.590428G	16.676M	5.571662G	5.588338G	Inf	1
20.856M	5.569506G	5.590362G	16.624M	5.571688G	5.588312G	Inf	2
20.724M	5.569506G	5.59023G	16.624M	5.571662G	5.588285G	Inf	3
20.922M	5.569506G	5.590428G	16.597M	5.571688G	5.588285G	Inf	4

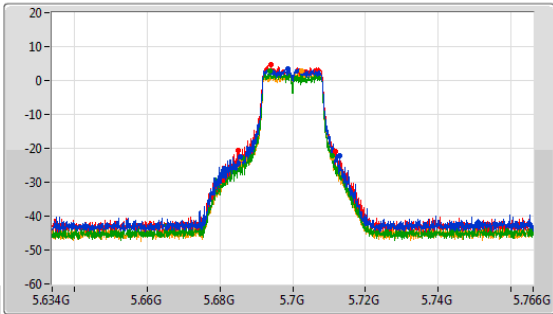


5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

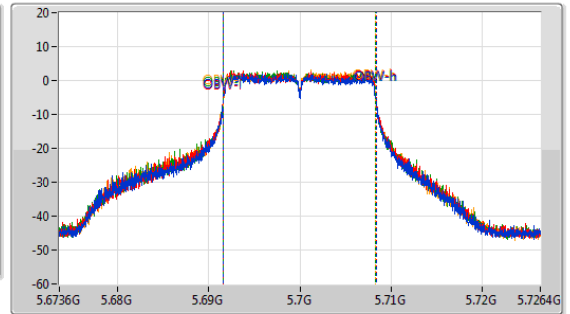
EBW

5700MHz

CF: 5.7GHz  
 Span: 132MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.7GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



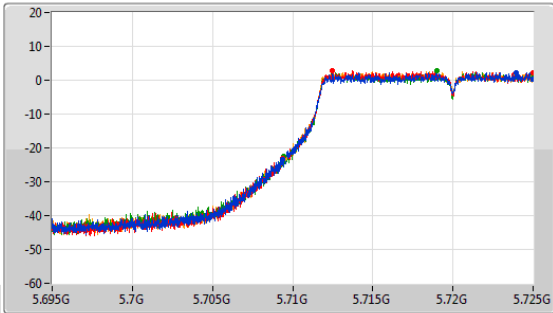
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.258M	5.685612G	5.71287G	16.835M	5.69153G	5.708365G	Inf	1
26.532M	5.68515G	5.711682G	16.835M	5.69153G	5.708365G	Inf	2
24.684M	5.686272G	5.710956G	16.782M	5.691556G	5.708338G	Inf	3
24.948M	5.686074G	5.711022G	16.729M	5.691609G	5.708338G	Inf	4

5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_4TX

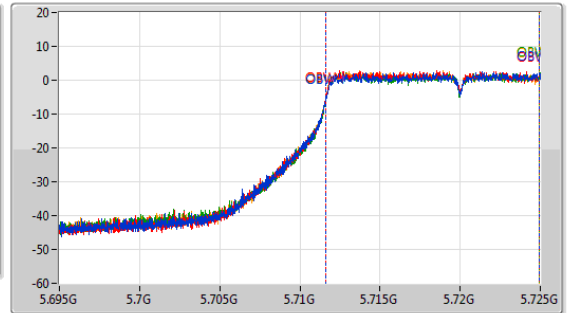
EBW

5720MHz Straddle 5.47-5.725GHz

CF: 5.71GHz  
 Span: 30MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.71GHz  
 Span: 30MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



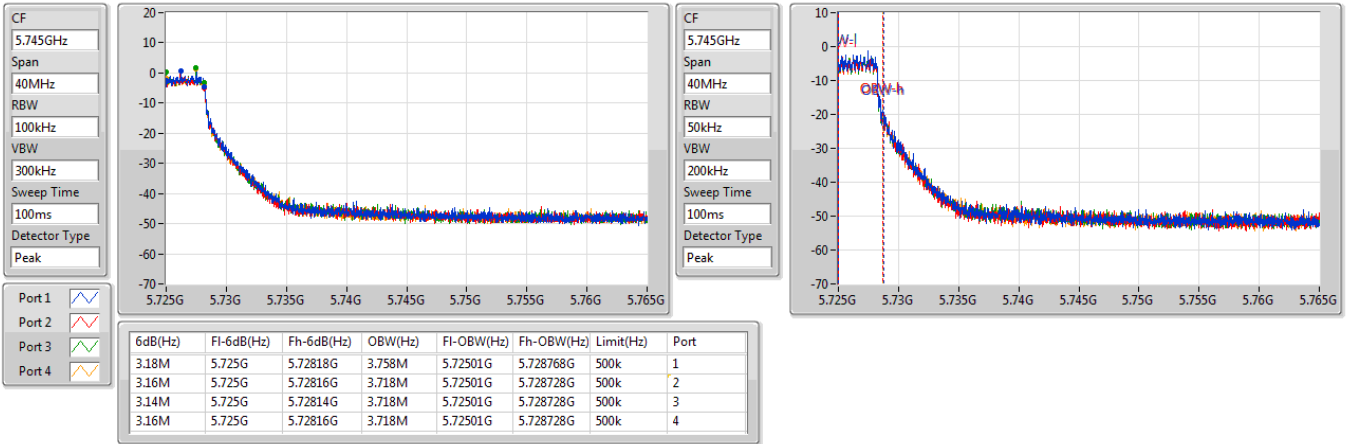
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.615M	5.709385G	5.725G	13.358M	5.711589G	5.724948G	Inf	1
15.645M	5.709355G	5.725G	13.328M	5.711604G	5.724933G	Inf	2
15.54M	5.70946G	5.725G	13.343M	5.711604G	5.724948G	Inf	3
15.525M	5.709475G	5.725G	13.328M	5.711604G	5.724933G	Inf	4



5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

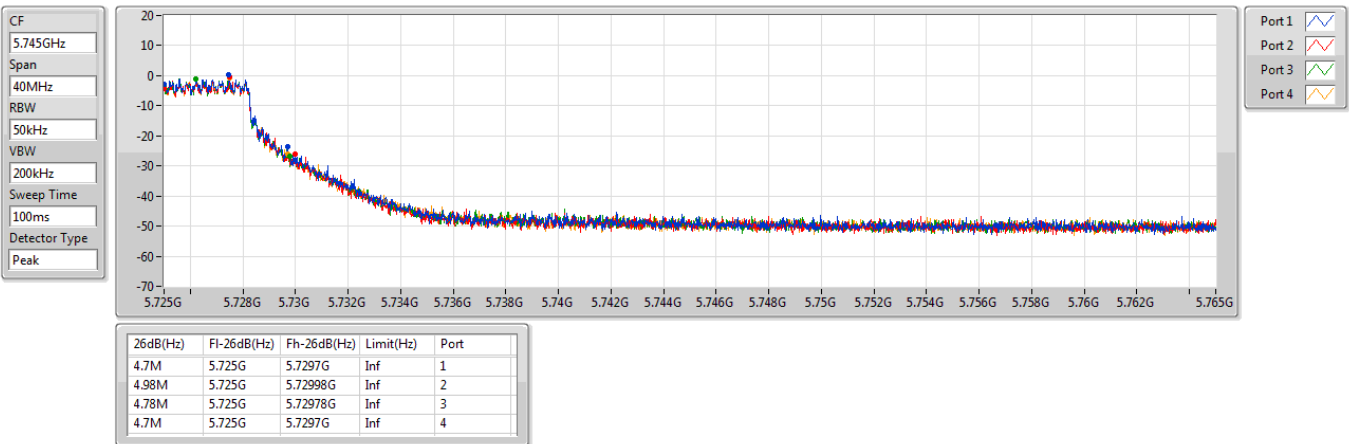
5720MHz Straddle 5.725-5.85GHz



5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5720MHz Straddle 5.725-5.85GHz



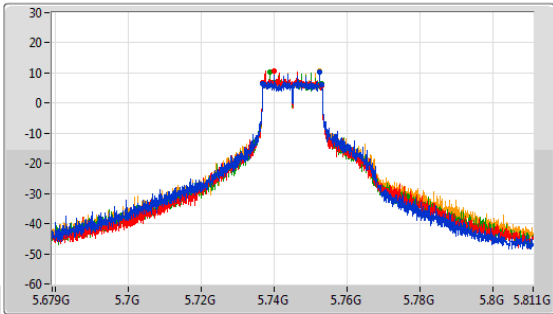


5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

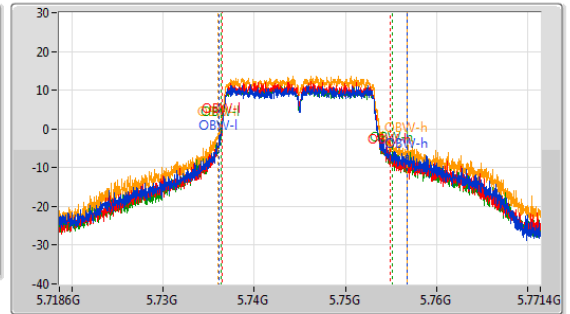
5745MHz

CF: 5.745GHz  
 Span: 132MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.302M	5.736816G	5.753118G	20.661M	5.736081G	5.756742G	500k	1
16.302M	5.736816G	5.753118G	18.444M	5.736424G	5.754869G	500k	2
16.302M	5.736816G	5.753118G	18.84M	5.736372G	5.755212G	500k	3
16.302M	5.736816G	5.753118G	20.74M	5.736055G	5.756795G	500k	4

CF: 5.745GHz  
 Span: 52.8MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak

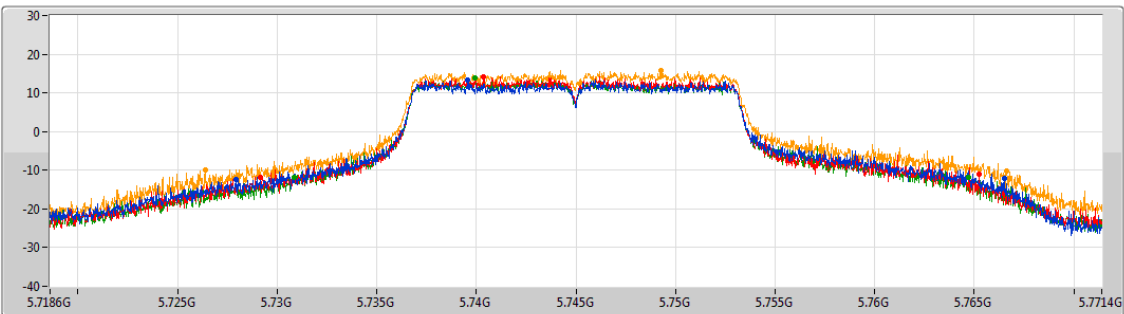


5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5745MHz

CF: 5.745GHz  
 Span: 52.8MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
38.57M	5.727946G	5.766516G	Inf	1
36.062M	5.72916G	5.765222G	Inf	2
33.845M	5.730876G	5.764721G	Inf	3
40.26M	5.726388G	5.766648G	Inf	4

Port 1  
 Port 2  
 Port 3  
 Port 4

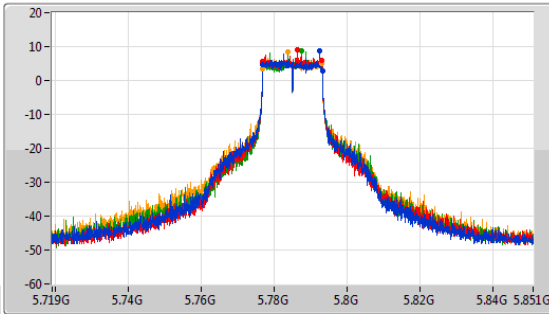


5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

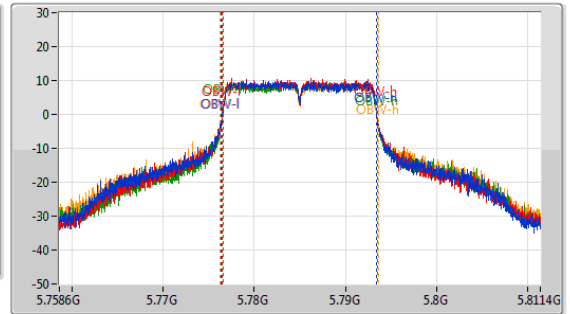
EBW

5785MHz

CF: 5.785GHz  
 Span: 132MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.785GHz  
 Span: 52.8MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Line 1]  
 Port 2: [Line 2]  
 Port 3: [Line 3]  
 Port 4: [Line 4]

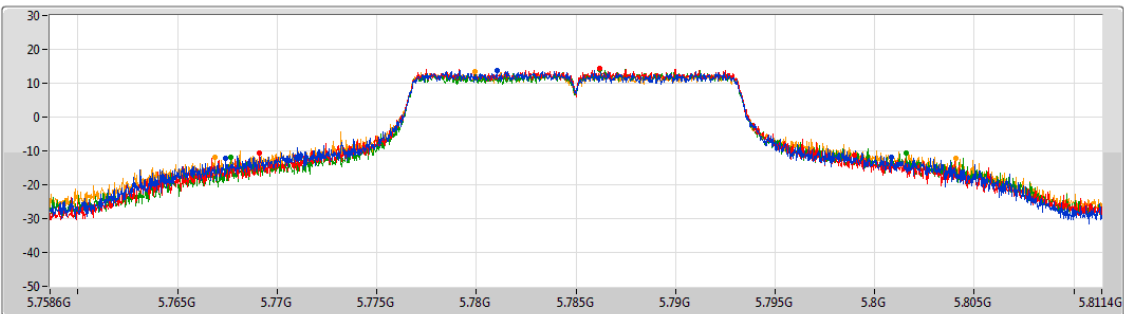
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.368M	5.776816G	5.793184G	17.072M	5.776398G	5.79347G	500k	1
16.302M	5.776816G	5.793118G	16.914M	5.776503G	5.793417G	500k	2
16.368M	5.776816G	5.793184G	16.914M	5.776583G	5.793497G	500k	3
16.368M	5.77675G	5.793118G	17.442M	5.77624G	5.793681G	500k	4

5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5785MHz

CF: 5.785GHz  
 Span: 52.8MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Line 1]  
 Port 2: [Line 2]  
 Port 3: [Line 3]  
 Port 4: [Line 4]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
33.396M	5.767418G	5.800814G	Inf	1
29.911M	5.769081G	5.798992G	Inf	2
33.95M	5.767655G	5.801606G	Inf	3
37.198M	5.766863G	5.804061G	Inf	4



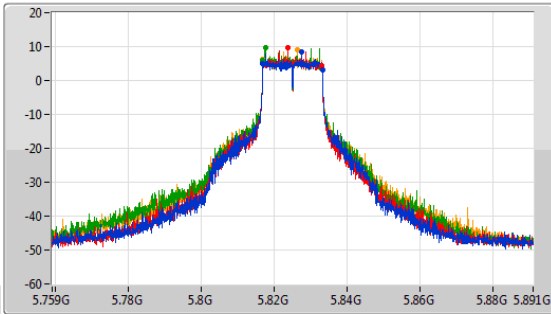


5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

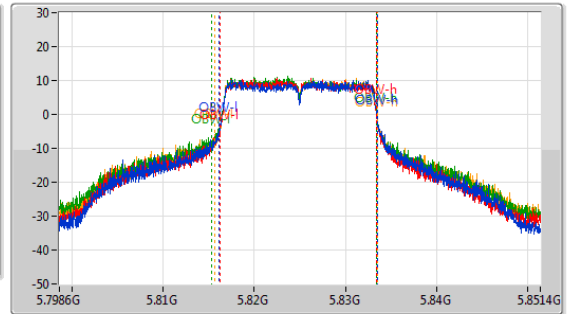
EBW

5825MHz

CF  
5.825GHz  
Span  
132MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.825GHz  
Span  
52.8MHz  
RBW  
200kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



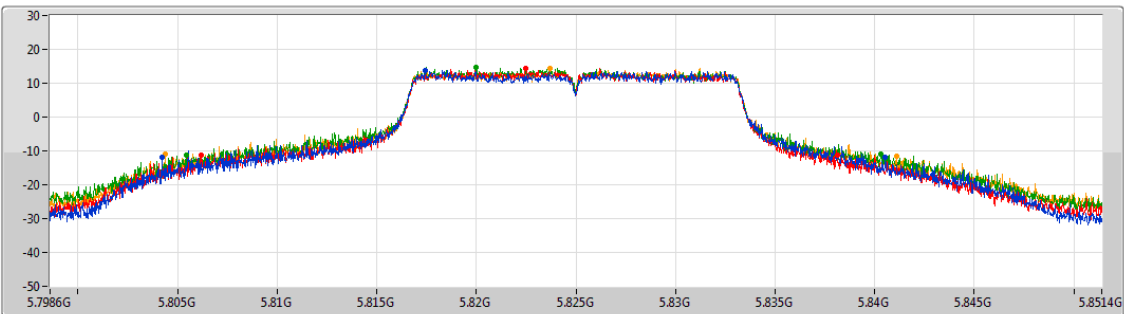
6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.368M	5.816816G	5.833184G	17.442M	5.816081G	5.833523G	500k	1
16.302M	5.816816G	5.833118G	17.151M	5.816213G	5.833365G	500k	2
16.302M	5.816816G	5.833118G	18.154M	5.815316G	5.83347G	500k	3
16.368M	5.816816G	5.833184G	17.89M	5.815633G	5.833523G	500k	4

5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5825MHz

CF  
5.825GHz  
Span  
52.8MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1  
Port 2  
Port 3  
Port 4

26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
36.3M	5.804223G	5.840523G	Inf	1
31.918M	5.806203G	5.838121G	Inf	2
34.874M	5.805438G	5.840312G	Inf	3
36.722M	5.804382G	5.841104G	Inf	4

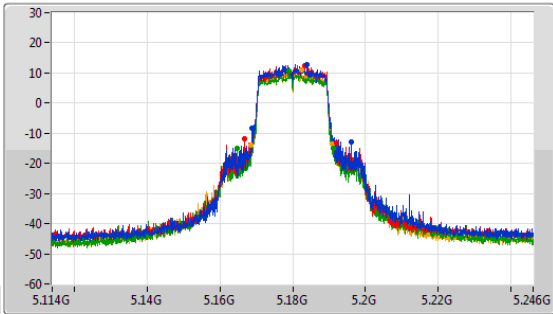


5.15-5.25GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

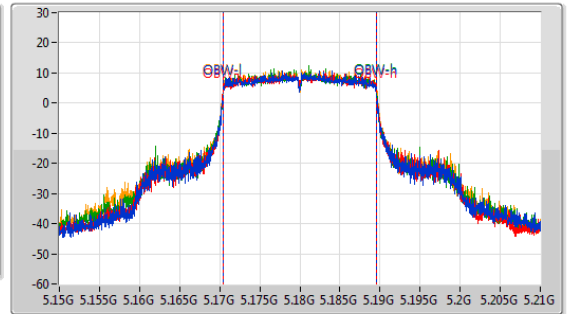
EBW

5180MHz

CF: 5.18GHz  
 Span: 132MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.18GHz  
 Span: 60MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



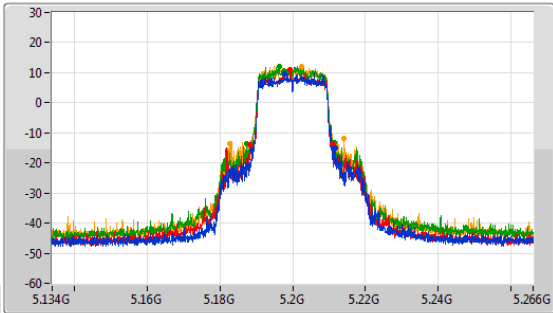
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.192M	5.168846G	5.196038G	19.01M	5.170495G	5.189505G	Inf	1
25.212M	5.166734G	5.191946G	19.07M	5.170465G	5.189535G	Inf	2
26.4M	5.164886G	5.191286G	19.04M	5.170495G	5.189535G	Inf	3
22.374M	5.16845G	5.190824G	19.07M	5.170465G	5.189535G	Inf	4

5.15-5.25GHz\_802.11ax\_HEW20\_Nss1,(MCS0)\_4TX

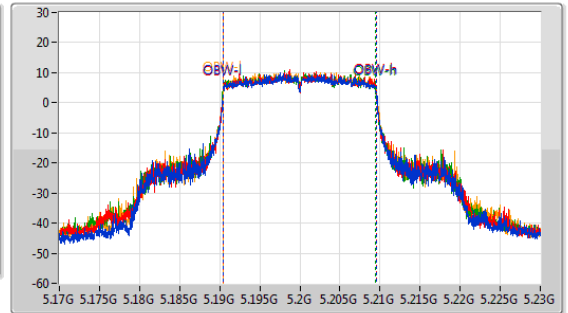
EBW

5200MHz

CF: 5.2GHz  
 Span: 132MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.2GHz  
 Span: 60MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.902M	5.188912G	5.211814G	19.01M	5.190495G	5.209505G	Inf	1
22.704M	5.188318G	5.211022G	19.01M	5.190495G	5.209505G	Inf	2
24.024M	5.18746G	5.211484G	19.01M	5.190465G	5.209475G	Inf	3
31.284M	5.182774G	5.214058G	19.01M	5.190495G	5.209505G	Inf	4