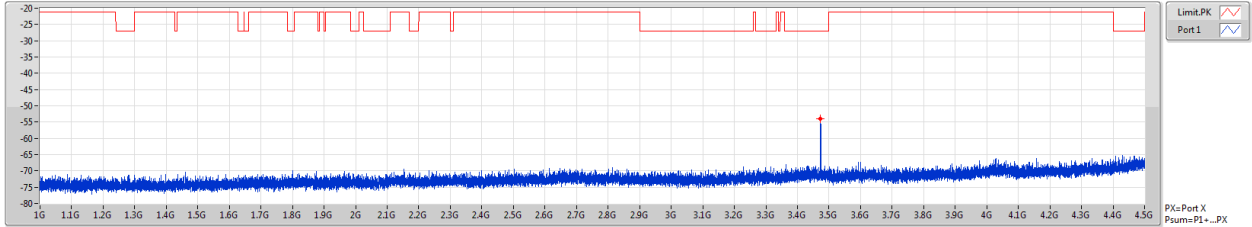


**802.11ac VHT80\_Nss1,(MCS0)\_1TX**  
**5210MHz**

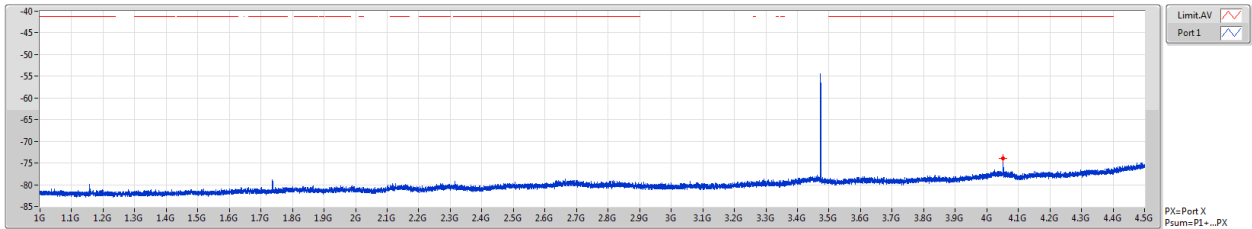
CSE [PK]



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	4.5G	1M	PK	3.4733G	0.00	-53.91	-53.91

**802.11ac VHT80\_Nss1,(MCS0)\_1TX**  
**5210MHz**

CSE [AV]

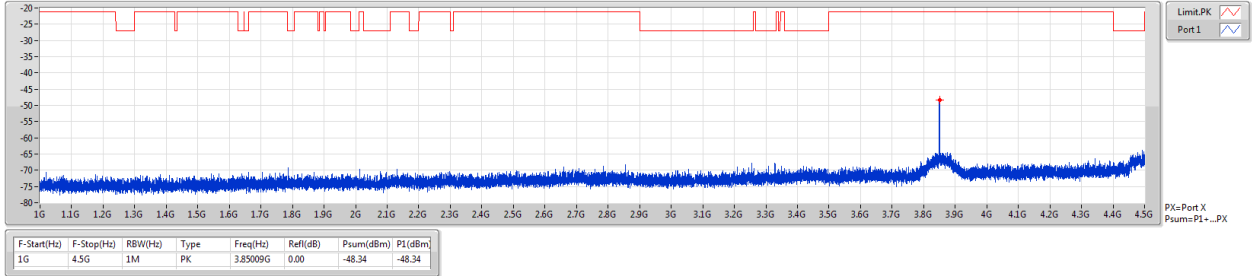


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Ref(dB)	Psum(dBm)	P1(dBm)
1G	4.5G	1M	AV	4.05222G	0.00	-74.01	-74.01

802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [PK]

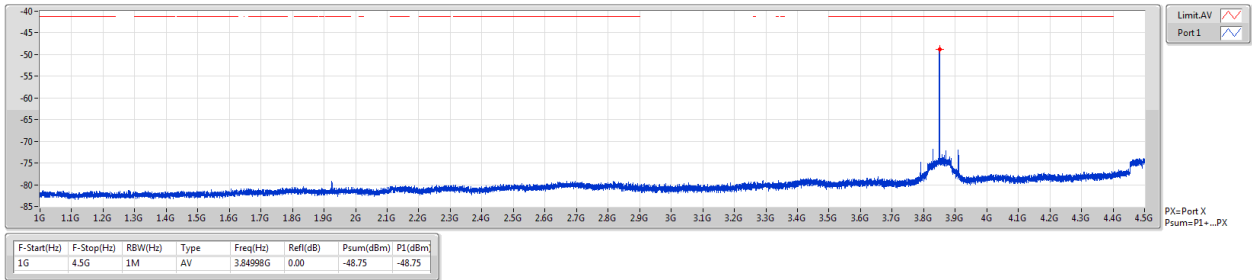
5775MHz



802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [AV]

5775MHz



### 3.5.16 Transmitter Conducted Unwanted Emissions (4.5GHz ~7GHz)

#### Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	5.121G	5.15G	AV	5.14975G	4.00	-49.18	-49.18	-45.18	-41.20	-3.98
802.11ac VHT80_Nss1,(MCS0)_1TX	Pass	5.121G	5.15G	AV	5.14899G	4.00	-49.59	-49.59	-45.59	-41.20	-4.39
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	5.35G	5.38G	AV	5.35057G	4.00	-49.16	-49.16	-45.16	-41.20	-3.96
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	5.35G	5.38G	AV	5.35087G	4.00	-49.63	-49.63	-45.63	-41.20	-4.43
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	5.35G	5.47G	AV	5.43226G	4.00	-50.83	-50.83	-46.83	-41.20	-5.63
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	5.35G	5.47G	AV	5.39226G	4.00	-52.13	-52.13	-48.13	-41.20	-6.93
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	5.6G	5.65G	PK	5.63949G	4.00	-37.80	-37.80	-33.80	-27.00	-6.80
802.11ac VHT80_Nss1,(MCS0)_1TX	Pass	5.6G	5.65G	PK	5.63739G	4.00	-34.85	-34.85	-30.85	-27.00	-3.85

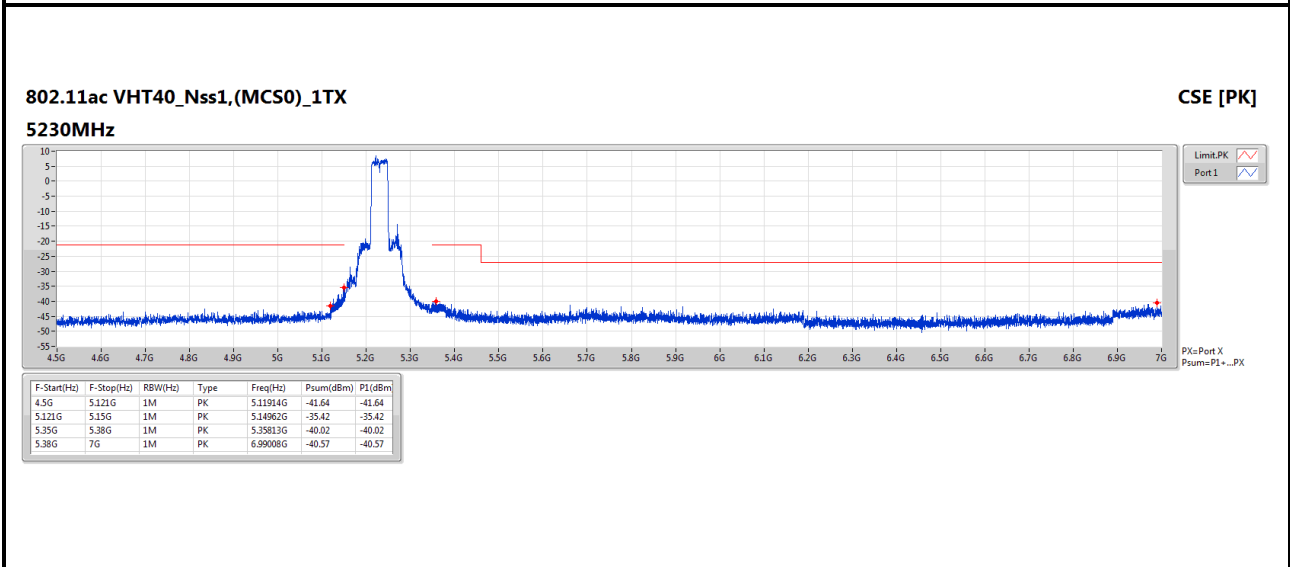
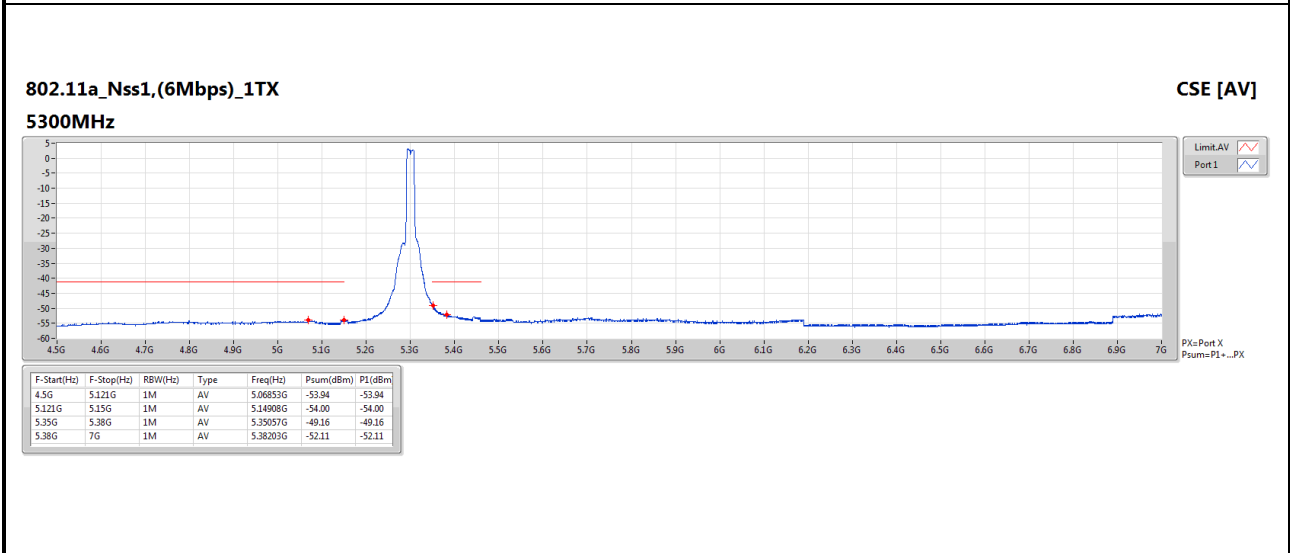
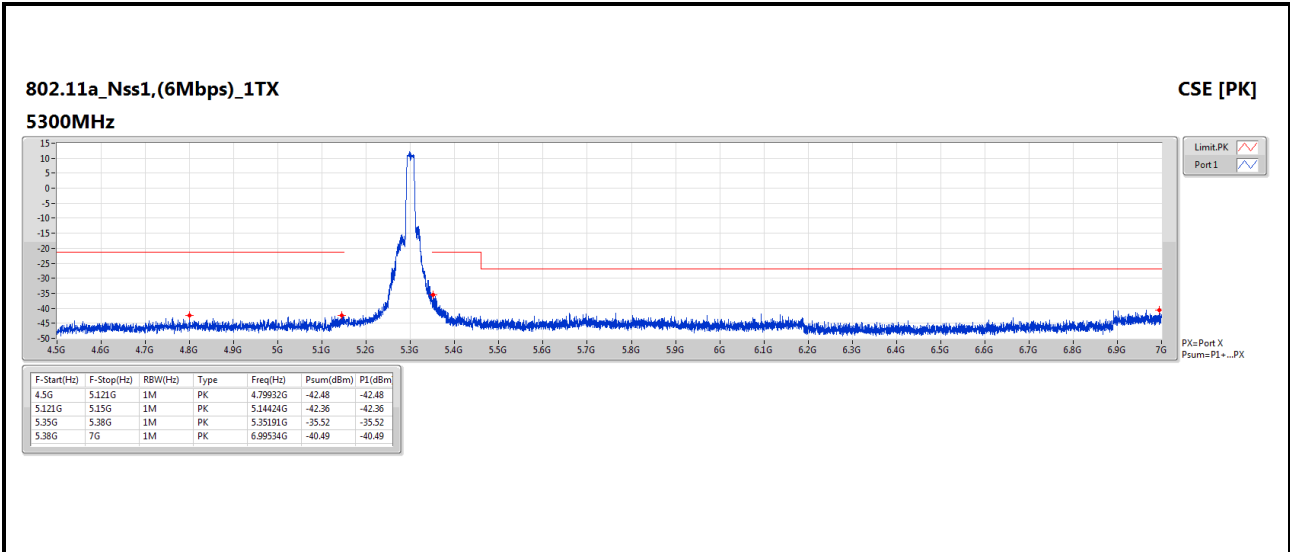
DG = Directional Gain;  
PX=Port X; Psum=P1+.P2+..PX

#### Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
5300MHz	Pass	4.5G	5.121G	AV	5.06853G	4.00	-53.94	-53.94	-49.94	-41.20	-8.74
5300MHz	Pass	5.121G	5.15G	AV	5.14908G	4.00	-54.00	-54.00	-50.00	-41.20	-8.80
5300MHz	Pass	5.35G	5.38G	AV	5.35057G	4.00	-49.16	-49.16	-45.16	-41.20	-3.96
5300MHz	Pass	5.38G	7G	AV	5.38203G	4.00	-52.11	-52.11	-48.11	-41.20	-6.91
5300MHz	Pass	4.5G	5.121G	PK	4.79932G	4.00	-42.48	-42.48	-38.48	-21.20	-17.28
5300MHz	Pass	5.121G	5.15G	PK	5.14424G	4.00	-42.36	-42.36	-38.36	-21.20	-17.16
5300MHz	Pass	5.35G	5.38G	PK	5.35191G	4.00	-35.52	-35.52	-31.52	-21.20	-10.32
5300MHz	Pass	5.38G	7G	PK	6.99534G	4.00	-40.49	-40.49	-36.49	-27.00	-9.49
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5230MHz	Pass	4.5G	5.121G	AV	5.11727G	4.00	-52.79	-52.79	-48.79	-41.20	-7.59
5230MHz	Pass	5.121G	5.15G	AV	5.14975G	4.00	-49.18	-49.18	-45.18	-41.20	-3.98
5230MHz	Pass	5.35G	5.38G	AV	5.35004G	4.00	-51.23	-51.23	-47.23	-41.20	-6.03
5230MHz	Pass	5.38G	7G	AV	5.38567G	4.00	-51.74	-51.74	-47.74	-41.20	-6.54
5230MHz	Pass	4.5G	5.121G	PK	5.11914G	4.00	-41.64	-41.64	-37.64	-21.20	-16.44
5230MHz	Pass	5.121G	5.15G	PK	5.14962G	4.00	-35.42	-35.42	-31.42	-21.20	-10.22
5230MHz	Pass	5.35G	5.38G	PK	5.35813G	4.00	-40.02	-40.02	-36.02	-21.20	-14.82
5230MHz	Pass	5.38G	7G	PK	6.99008G	4.00	-40.57	-40.57	-36.57	-27.00	-9.57
5310MHz	Pass	4.5G	5.121G	AV	5.0499G	4.00	-54.01	-54.01	-50.01	-41.20	-8.81
5310MHz	Pass	5.121G	5.15G	AV	5.14891G	4.00	-54.11	-54.11	-50.11	-41.20	-8.91
5310MHz	Pass	5.35G	5.38G	AV	5.35087G	4.00	-49.63	-49.63	-45.63	-41.20	-4.43
5310MHz	Pass	5.38G	7G	AV	5.38182G	4.00	-51.52	-51.52	-47.52	-41.20	-6.32
5310MHz	Pass	4.5G	5.121G	PK	4.95426G	4.00	-42.78	-42.78	-38.78	-21.20	-17.58
5310MHz	Pass	5.121G	5.15G	PK	5.14563G	4.00	-42.15	-42.15	-38.15	-21.20	-16.95

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5310MHz	Pass	5.35G	5.38G	PK	5.351G	4.00	-37.75	-37.75	-33.75	-21.20	-12.55
5310MHz	Pass	5.38G	7G	PK	6.96011G	4.00	-40.98	-40.98	-36.98	-27.00	-9.98
5590MHz	Pass	4.5G	5.35G	AV	5.35G	4.00	-51.40	-51.40	-47.40	-41.20	-6.20
5590MHz	Pass	5.35G	5.47G	AV	5.43226G	4.00	-50.83	-50.83	-46.83	-41.20	-5.63
5590MHz	Pass	5.35G	5.46G	PK	5.44151G	4.00	-39.76	-39.76	-35.76	-21.20	-14.56
5590MHz	Pass	5.46G	5.47G	PK	5.4649G	4.00	-36.68	-36.68	-32.68	-27.00	-5.68
5590MHz	Pass	5.725G	5.75G	PK	5.74489G	4.00	-39.56	-39.56	-35.56	-27.00	-8.56
5590MHz	Pass	5.75G	7G	PK	6.98563G	4.00	-40.48	-40.48	-36.48	-27.00	-9.48
5710MHz Straddle 5.47-5.725GHz	Pass	4.5G	5.35G	AV	5.35G	4.00	-53.09	-53.09	-49.09	-41.20	-7.89
5710MHz Straddle 5.47-5.725GHz	Pass	5.35G	5.47G	AV	5.39226G	4.00	-52.13	-52.13	-48.13	-41.20	-6.93
5710MHz Straddle 5.47-5.725GHz	Pass	5.35G	5.46G	PK	5.39735G	4.00	-41.04	-41.04	-37.04	-21.20	-15.84
5710MHz Straddle 5.47-5.725GHz	Pass	5.46G	5.47G	PK	5.46806G	4.00	-41.71	-41.71	-37.71	-27.00	-10.71
5710MHz Straddle 5.47-5.725GHz	Pass	5.85G	7G	PK	5.85833G	4.00	-40.06	-40.06	-36.06	-27.00	-9.06
5795MHz	Pass	4.5G	5.6G	AV	5.38413G	4.00	-52.49	-52.49	-48.49	-41.20	-7.29
5795MHz	Pass	5.6G	5.65G	PK	5.63949G	4.00	-37.80	-37.80	-33.80	-27.00	-6.80
5795MHz	Pass	5.65G	5.7G	PK	5.65014G	4.00	-41.06	-41.06	-37.06	-26.89	-10.17
5795MHz	Pass	5.7G	5.72G	PK	5.71858G	4.00	-22.54	-22.54	-18.54	15.20	-33.74
5795MHz	Pass	5.72G	5.725G	PK	5.72021G	4.00	-21.67	-21.67	-17.67	16.08	-33.75
5795MHz	Pass	5.85G	5.855G	PK	5.85495G	4.00	-19.32	-19.32	-15.32	15.72	-31.04
5795MHz	Pass	5.855G	5.875G	PK	5.87039G	4.00	-24.77	-24.77	-20.77	11.29	-32.06
5795MHz	Pass	5.875G	5.925G	PK	5.92478G	4.00	-40.02	-40.02	-36.02	-26.84	-9.18
5795MHz	Pass	5.725G	5.85G	PK	5.92906G	4.00	-39.28	-39.28	-35.28	-27.00	-8.28
5795MHz	Pass	5.85G	5.855G	PK	6.99949G	4.00	-40.77	-40.77	-36.77	-27.00	-9.77
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.5G	5.121G	AV	5.11386G	4.00	-51.64	-51.64	-47.64	-41.20	-6.44
5210MHz	Pass	5.121G	5.15G	AV	5.14899G	4.00	-49.59	-49.59	-45.59	-41.20	-4.39
5210MHz	Pass	5.35G	5.38G	AV	5.37639G	4.00	-50.54	-50.54	-46.54	-41.20	-5.34
5210MHz	Pass	5.38G	7G	AV	5.38284G	4.00	-50.86	-50.86	-46.86	-41.20	-5.66
5210MHz	Pass	4.5G	5.121G	PK	5.11883G	4.00	-40.76	-40.76	-36.76	-21.20	-15.56
5210MHz	Pass	5.121G	5.15G	PK	5.12209G	4.00	-38.14	-38.14	-34.14	-21.20	-12.94
5210MHz	Pass	5.35G	5.38G	PK	5.35135G	4.00	-39.85	-39.85	-35.85	-21.20	-14.65
5210MHz	Pass	5.38G	7G	PK	6.97408G	4.00	-39.92	-39.92	-35.92	-27.00	-8.92
5775MHz	Pass	4.5G	5.6G	AV	5.3855G	4.00	-51.58	-51.58	-47.58	-41.20	-6.38
5775MHz	Pass	5.6G	5.65G	PK	5.63739G	4.00	-34.85	-34.85	-30.85	-27.00	-3.85
5775MHz	Pass	5.65G	5.7G	PK	5.65072G	4.00	-37.11	-37.11	-33.11	-26.46	-6.65
5775MHz	Pass	5.7G	5.72G	PK	5.7G	4.00	-24.24	-24.24	-20.24	10.00	-30.24
5775MHz	Pass	5.72G	5.725G	PK	5.72006G	4.00	-23.43	-23.43	-19.43	15.73	-35.16
5775MHz	Pass	5.85G	5.855G	PK	5.85498G	4.00	-26.36	-26.36	-22.36	15.65	-38.01
5775MHz	Pass	5.855G	5.875G	PK	5.86694G	4.00	-28.45	-28.45	-24.45	12.26	-36.71
5775MHz	Pass	5.875G	5.925G	PK	5.925G	4.00	-40.55	-40.55	-36.55	-27.00	-9.55
5775MHz	Pass	5.725G	5.85G	PK	5.92746G	4.00	-38.59	-38.59	-34.59	-27.00	-7.59
5775MHz	Pass	5.85G	5.855G	PK	6.97297G	4.00	-40.10	-40.10	-36.10	-27.00	-9.10

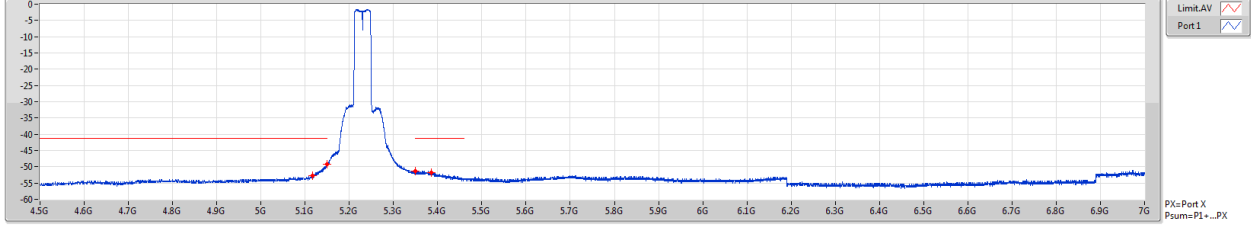
DG = Directional Gain;  
PX=Port X; Psum=P1+..P2+..PX



802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE [AV]

5230MHz

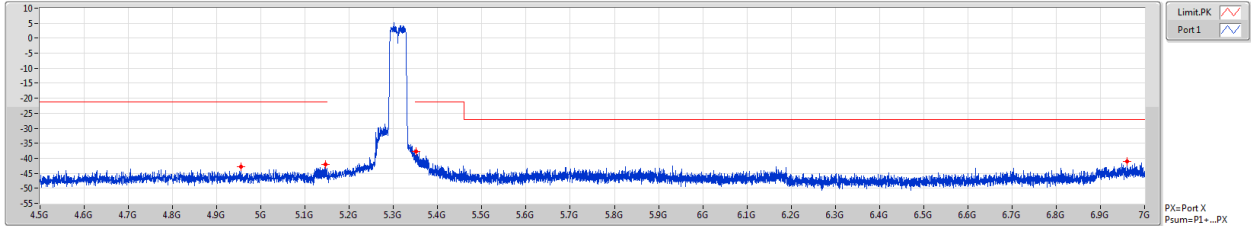


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
4.5G	5.121G	1M	AV	5.11727G	-52.79	-52.79
5.121G	5.15G	1M	AV	5.14975G	-49.18	-49.18
5.35G	5.38G	1M	AV	5.35004G	-51.23	-51.23
5.38G	7G	1M	AV	5.38567G	-51.74	-51.74

802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE [PK]

5310MHz

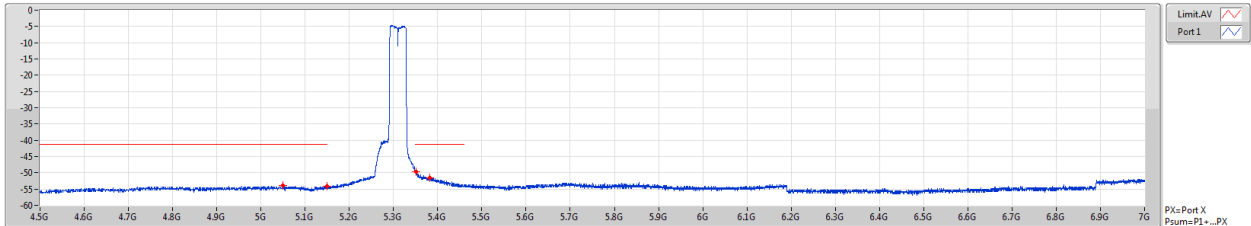


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
4.5G	5.121G	1M	PK	4.95426G	-42.78	-42.78
5.121G	5.15G	1M	PK	5.14563G	-42.15	-42.15
5.35G	5.38G	1M	PK	5.351G	-37.75	-37.75
5.38G	7G	1M	PK	6.96011G	-40.98	-40.98

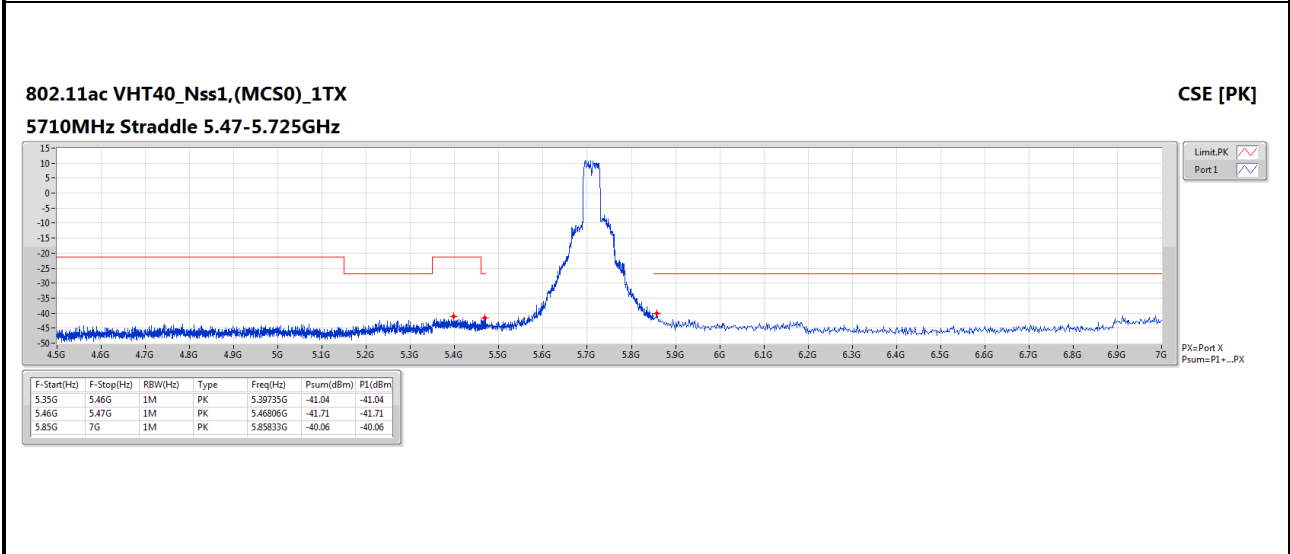
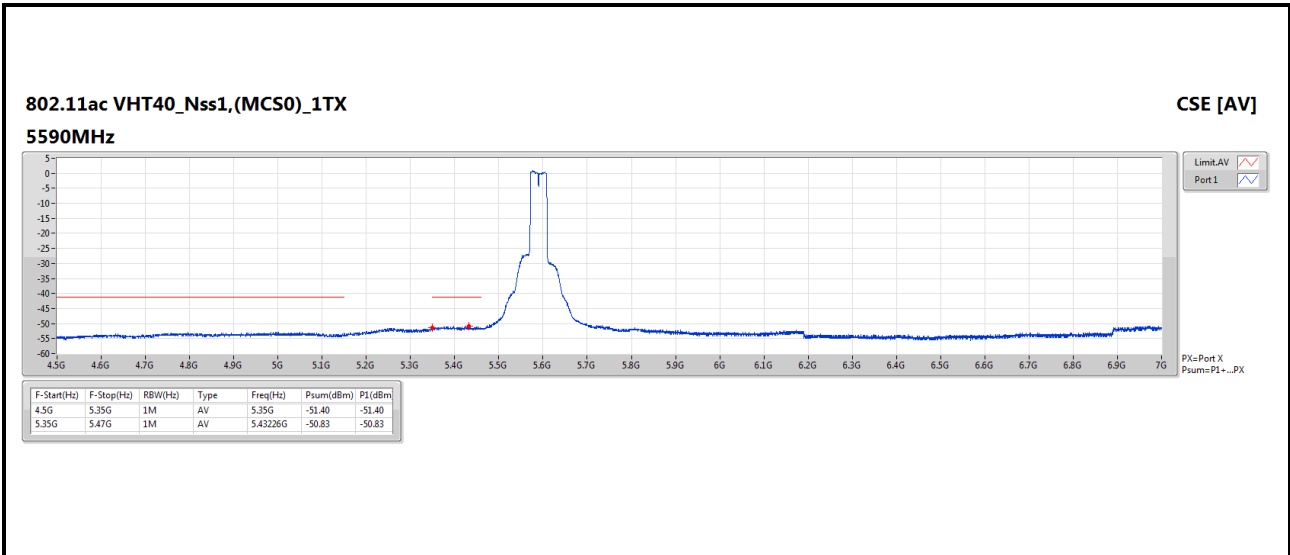
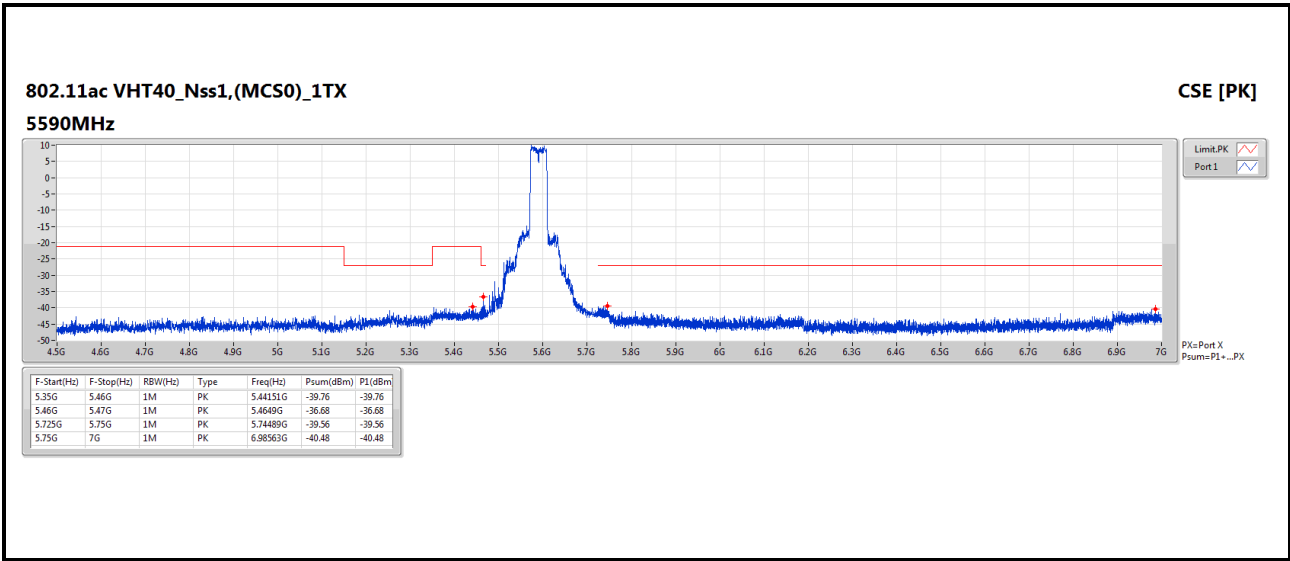
802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE [AV]

5310MHz

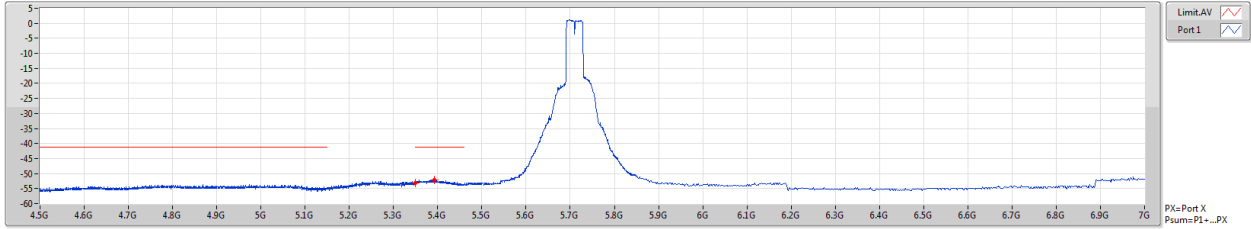


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
4.5G	5.121G	1M	AV	5.0499G	-54.01	-54.01
5.121G	5.15G	1M	AV	5.14891G	-54.11	-54.11
5.35G	5.38G	1M	AV	5.35087G	-49.63	-49.63
5.38G	7G	1M	AV	5.38182G	-51.52	-51.52



**802.11ac VHT40\_Nss1,(MCS0)\_1TX**  
**5710MHz Straddle 5.47-5.725GHz**

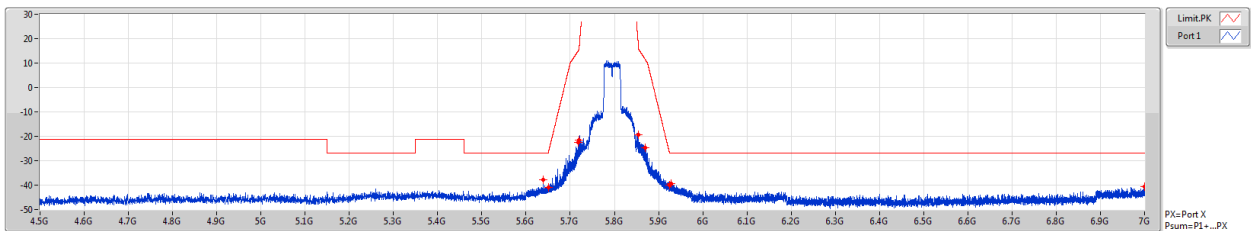
CSE [AV]



F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
4.5G	5.35G	1M	AV	5.35G	-53.09	-53.09
5.35G	5.47G	1M	AV	5.39226G	-52.13	-52.13

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**  
**5795MHz**

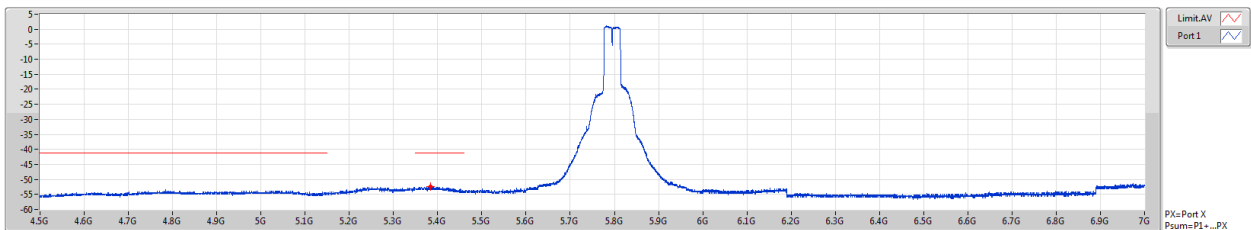
CSE [PK]



F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
5.6G	5.65G	1M	PK	5.63949G	-37.80	-37.80
5.65G	5.7G	1M	PK	5.65014G	-41.06	-41.06
5.7G	5.72G	1M	PK	5.71858G	-22.54	-22.54
5.72G	5.725G	1M	PK	5.72021G	-21.67	-21.67
5.85G	5.855G	1M	PK	5.85495G	-19.32	-19.32
5.855G	5.875G	1M	PK	5.87039G	-24.77	-24.77
5.875G	5.925G	1M	PK	5.92478G	-40.02	-40.02
5.925G	5.85G	1M	PK	5.92906G	-39.28	-39.28
5.85G	5.855G	1M	PK	6.99949G	-40.77	-40.77

**802.11ac VHT40\_Nss1,(MCS0)\_1TX**  
**5795MHz**

CSE [AV]



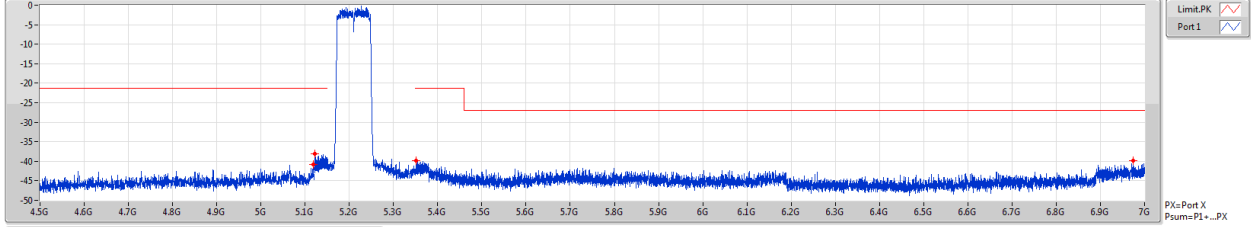
F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
4.5G	5.6G	1M	AV	5.38413G	-52.49	-52.49



802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [PK]

5210MHz

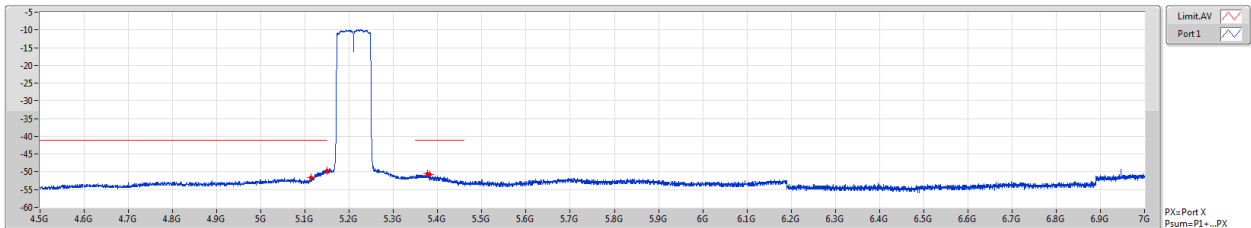


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
4.5G	5.121G	1M	PK	5.11883G	-40.76	-40.76
5.121G	5.15G	1M	PK	5.12209G	-38.14	-38.14
5.35G	5.38G	1M	PK	5.35135G	-39.85	-39.85
5.38G	7G	1M	PK	6.97408G	-39.92	-39.92

802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [AV]

5210MHz

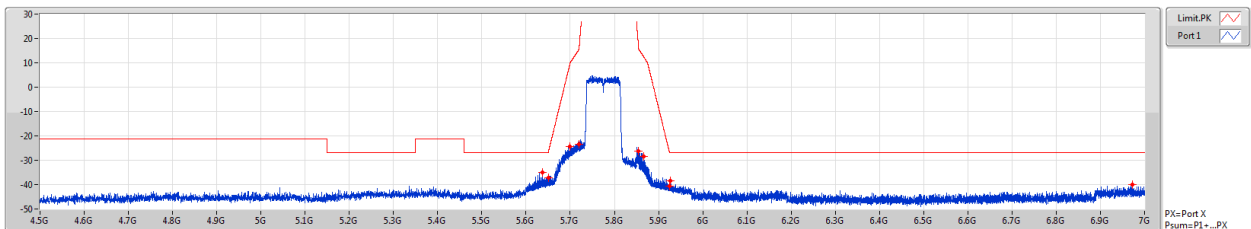


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
4.5G	5.121G	1M	AV	5.11386G	-51.64	-51.64
5.121G	5.15G	1M	AV	5.14899G	-49.59	-49.59
5.35G	5.38G	1M	AV	5.37639G	-50.54	-50.54
5.38G	7G	1M	AV	5.38284G	-50.86	-50.86

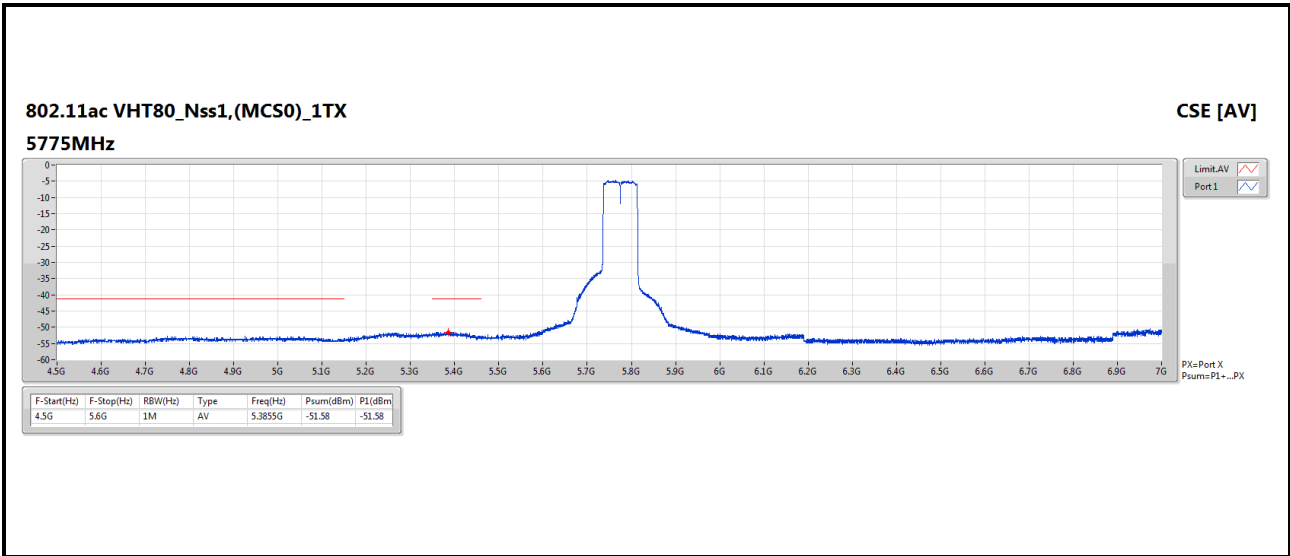
802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [PK]

5775MHz



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	Psum(dBm)	P1(dBm)
5.6G	5.65G	1M	PK	5.63739G	-34.85	-34.85
5.65G	5.7G	1M	PK	5.65072G	-37.11	-37.11
5.7G	5.725G	1M	PK	5.7G	-24.24	-24.24
5.72G	5.725G	1M	PK	5.72006G	-23.43	-23.43
5.85G	5.855G	1M	PK	5.85498G	-26.36	-26.36
5.855G	5.875G	1M	PK	5.86694G	-28.45	-28.45
5.875G	5.925G	1M	PK	5.925G	-40.55	-40.55
5.725G	5.85G	1M	PK	5.92746G	-38.59	-38.59
5.85G	5.855G	1M	PK	6.97297G	-40.10	-40.10



### 3.5.17 Transmitter Conducted Unwanted Emissions (7GHz ~40GHz)

#### Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	15G	17G	AV	15.6885G	4.00	-56.92	-56.92	-52.92	-41.20	-11.72
802.11ac VHT80_Nss1,(MCS0)_1TX	Pass	18G	40G	AV	39.99931G	4.00	-59.39	-59.39	-55.39	-41.20	-14.19
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	15G	17G	AV	15.8975G	4.00	-53.42	-53.42	-49.42	-41.20	-8.22
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	18G	40G	AV	39.99794G	4.00	-59.41	-59.41	-55.41	-41.20	-14.21
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	7G	10G	AV	7.453G	4.00	-53.66	-53.66	-49.66	-41.20	-8.46
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	11G	12G	AV	11.4205G	4.00	-56.87	-56.87	-52.87	-41.20	-11.67
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	11G	12G	AV	11.59G	4.00	-57.70	-57.70	-53.70	-41.20	-12.50
802.11ac VHT80_Nss1,(MCS0)_1TX	Pass	7G	10G	AV	7.69975G	4.00	-57.92	-57.92	-53.92	-41.20	-12.72

DG = Directional Gain;  
PX=Port X; Psum=P1+.P2+...PX

#### Result

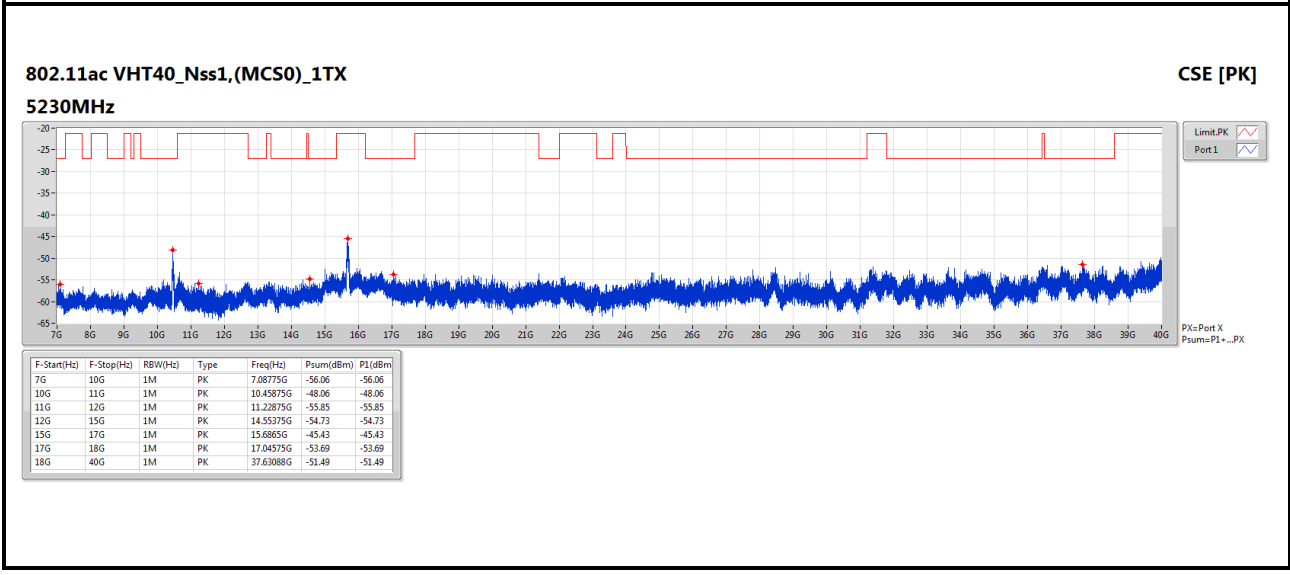
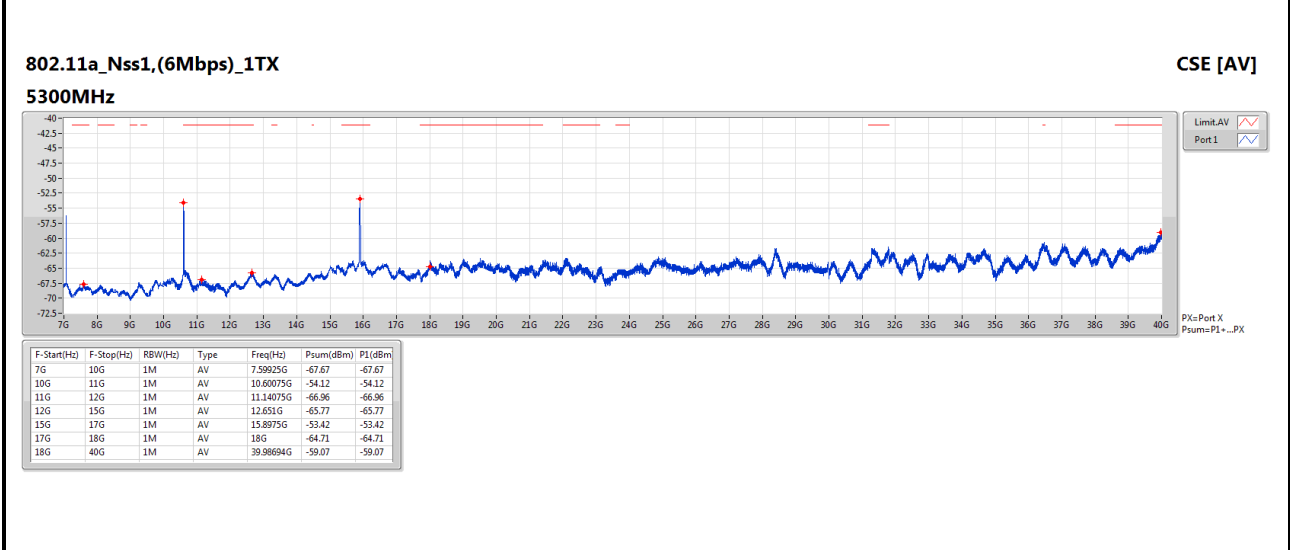
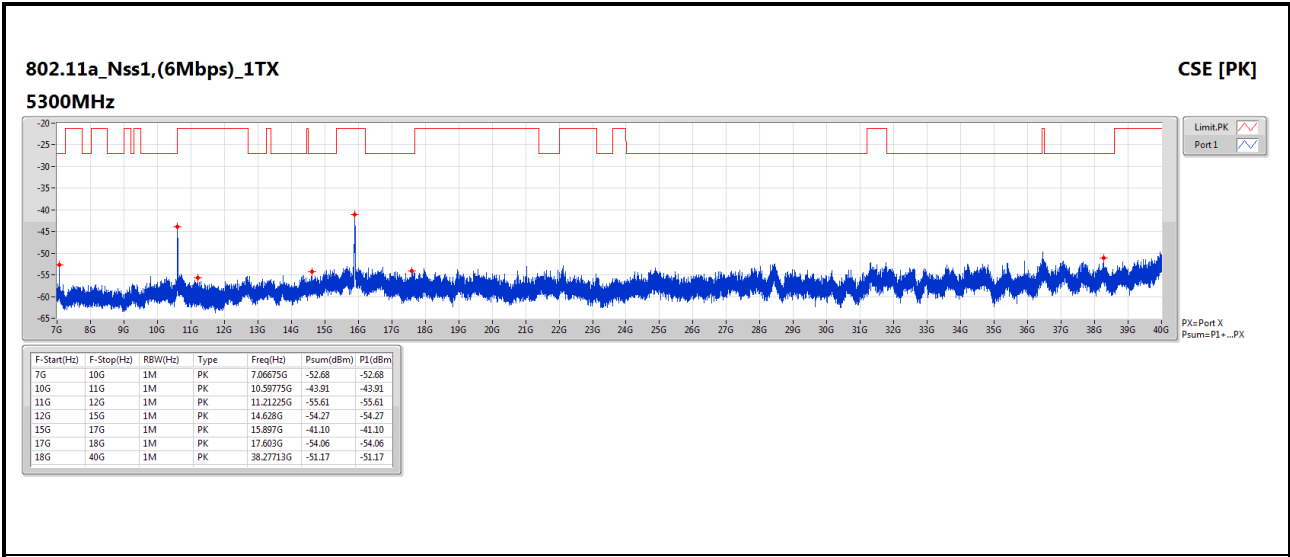
Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
5300MHz	Pass	7G	10G	AV	7.59925G	4.00	-67.67	-67.67	-63.67	-41.20	-22.47
5300MHz	Pass	10G	11G	AV	10.60075G	4.00	-54.12	-54.12	-50.12	-41.20	-8.92
5300MHz	Pass	11G	12G	AV	11.14075G	4.00	-66.96	-66.96	-62.96	-41.20	-21.76
5300MHz	Pass	12G	15G	AV	12.651G	4.00	-65.77	-65.77	-61.77	-41.20	-20.57
5300MHz	Pass	15G	17G	AV	15.8975G	4.00	-53.42	-53.42	-49.42	-41.20	-8.22
5300MHz	Pass	17G	18G	AV	18G	4.00	-64.71	-64.71	-60.71	-41.20	-19.51
5300MHz	Pass	18G	40G	AV	39.98694G	4.00	-59.07	-59.07	-55.07	-41.20	-13.87
5300MHz	Pass	7G	10G	PK	7.06675G	4.00	-52.68	-52.68	-48.68	-27.00	-21.68
5300MHz	Pass	10G	11G	PK	10.59775G	4.00	-43.91	-43.91	-39.91	-27.00	-12.91
5300MHz	Pass	11G	12G	PK	11.21225G	4.00	-55.61	-55.61	-51.61	-21.20	-30.41
5300MHz	Pass	12G	15G	PK	14.628G	4.00	-54.27	-54.27	-50.27	-27.00	-23.27
5300MHz	Pass	15G	17G	PK	15.897G	4.00	-41.10	-41.10	-37.10	-21.20	-15.90
5300MHz	Pass	17G	18G	PK	17.603G	4.00	-54.06	-54.06	-50.06	-27.00	-23.06
5300MHz	Pass	18G	40G	PK	38.27713G	4.00	-51.17	-51.17	-47.17	-27.00	-20.17
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5230MHz	Pass	7G	10G	AV	7.60375G	4.00	-66.94	-66.94	-62.94	-41.20	-21.74
5230MHz	Pass	10G	11G	AV	10.6315G	4.00	-65.00	-65.00	-61.00	-41.20	-19.80
5230MHz	Pass	11G	12G	AV	11.14375G	4.00	-66.55	-66.55	-62.55	-41.20	-21.35
5230MHz	Pass	12G	15G	AV	12.61725G	4.00	-65.16	-65.16	-61.16	-41.20	-19.96
5230MHz	Pass	15G	17G	AV	15.6885G	4.00	-56.92	-56.92	-52.92	-41.20	-11.72
5230MHz	Pass	17G	18G	AV	17.99675G	4.00	-64.35	-64.35	-60.35	-41.20	-19.15
5230MHz	Pass	18G	40G	AV	39.989G	4.00	-59.04	-59.04	-55.04	-41.20	-13.84

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5230MHz	Pass	7G	10G	PK	7.08775G	4.00	-56.06	-56.06	-52.06	-27.00	-25.06
5230MHz	Pass	10G	11G	PK	10.45875G	4.00	-48.06	-48.06	-44.06	-27.00	-17.06
5230MHz	Pass	11G	12G	PK	11.22875G	4.00	-55.85	-55.85	-51.85	-21.20	-30.65
5230MHz	Pass	12G	15G	PK	14.55375G	4.00	-54.73	-54.73	-50.73	-27.00	-23.73
5230MHz	Pass	15G	17G	PK	15.6865G	4.00	-45.43	-45.43	-41.43	-21.20	-20.23
5230MHz	Pass	17G	18G	PK	17.04575G	4.00	-53.69	-53.69	-49.69	-27.00	-22.69
5230MHz	Pass	18G	40G	PK	37.63088G	4.00	-51.49	-51.49	-47.49	-27.00	-20.49
5310MHz	Pass	7G	10G	AV	7.59925G	4.00	-67.38	-67.38	-63.38	-41.20	-22.18
5310MHz	Pass	10G	11G	AV	10.61925G	4.00	-65.04	-65.04	-61.04	-41.20	-19.84
5310MHz	Pass	11G	12G	AV	11.13875G	4.00	-66.67	-66.67	-62.67	-41.20	-21.47
5310MHz	Pass	12G	15G	AV	12.633G	4.00	-65.56	-65.56	-61.56	-41.20	-20.36
5310MHz	Pass	15G	17G	AV	15.9235G	4.00	-59.51	-59.51	-55.51	-41.20	-14.31
5310MHz	Pass	17G	18G	AV	17.997G	4.00	-64.47	-64.47	-60.47	-41.20	-19.27
5310MHz	Pass	18G	40G	AV	39.99794G	4.00	-59.41	-59.41	-55.41	-41.20	-14.21
5310MHz	Pass	7G	10G	PK	7.0795G	4.00	-49.53	-49.53	-45.53	-27.00	-18.53
5310MHz	Pass	10G	11G	PK	10.57775G	4.00	-55.99	-55.99	-51.99	-27.00	-24.99
5310MHz	Pass	10G	11G	PK	10.617G	4.00	-55.02	-55.02	-51.02	-21.20	-29.82
5310MHz	Pass	11G	12G	PK	11.14275G	4.00	-56.20	-56.20	-52.20	-21.20	-31.00
5310MHz	Pass	12G	15G	PK	14.99475G	4.00	-54.50	-54.50	-50.50	-27.00	-23.50
5310MHz	Pass	15G	17G	PK	16.708G	4.00	-53.58	-53.58	-49.58	-27.00	-22.58
5310MHz	Pass	17G	18G	PK	17.116G	4.00	-54.33	-54.33	-50.33	-27.00	-23.33
5310MHz	Pass	18G	40G	PK	36.56388G	4.00	-51.91	-51.91	-47.91	-27.00	-20.91
5590MHz	Pass	7G	10G	AV	7.453G	4.00	-53.66	-53.66	-49.66	-41.20	-8.46
5590MHz	Pass	10G	11G	AV	10.6565G	4.00	-65.14	-65.14	-61.14	-41.20	-19.94
5590MHz	Pass	11G	12G	AV	11.181G	4.00	-59.31	-59.31	-55.31	-41.20	-14.11
5590MHz	Pass	12G	15G	AV	12.63675G	4.00	-65.54	-65.54	-61.54	-41.20	-20.34
5590MHz	Pass	15G	17G	AV	15.9075G	4.00	-63.51	-63.51	-59.51	-41.20	-18.31
5590MHz	Pass	17G	18G	AV	17.96875G	4.00	-64.35	-64.35	-60.35	-41.20	-19.15
5590MHz	Pass	18G	40G	AV	39.97938G	4.00	-59.32	-59.32	-55.32	-41.20	-14.12
5590MHz	Pass	7G	10G	PK	9.8605G	4.00	-56.04	-56.04	-52.04	-27.00	-25.04
5590MHz	Pass	10G	11G	PK	10.307G	4.00	-55.23	-55.23	-51.23	-27.00	-24.23
5590MHz	Pass	11G	12G	PK	11.17825G	4.00	-50.06	-50.06	-46.06	-21.20	-24.86
5590MHz	Pass	12G	15G	PK	14.36775G	4.00	-55.50	-55.50	-51.50	-27.00	-24.50
5590MHz	Pass	15G	17G	PK	16.771G	4.00	-42.61	-42.61	-38.61	-27.00	-11.61
5590MHz	Pass	17G	18G	PK	17.06625G	4.00	-55.01	-55.01	-51.01	-27.00	-24.01
5590MHz	Pass	18G	40G	PK	36.41194G	4.00	-51.28	-51.28	-47.28	-27.00	-20.28
5710MHz Straddle 5.47-5.725GHz	Pass	7G	10G	AV	7.61275G	4.00	-60.15	-60.15	-56.15	-41.20	-14.95
5710MHz Straddle 5.47-5.725GHz	Pass	10G	11G	AV	10.67725G	4.00	-64.80	-64.80	-60.80	-41.20	-19.60
5710MHz Straddle 5.47-5.725GHz	Pass	11G	12G	AV	11.4205G	4.00	-56.87	-56.87	-52.87	-41.20	-11.67
5710MHz Straddle 5.47-5.725GHz	Pass	12G	15G	AV	12.64725G	4.00	-65.37	-65.37	-61.37	-41.20	-20.17
5710MHz Straddle 5.47-5.725GHz	Pass	15G	17G	AV	15.8895G	4.00	-63.17	-63.17	-59.17	-41.20	-17.97
5710MHz Straddle 5.47-5.725GHz	Pass	17G	18G	AV	17.97975G	4.00	-64.12	-64.12	-60.12	-41.20	-18.92
5710MHz Straddle 5.47-5.725GHz	Pass	18G	40G	AV	39.99106G	4.00	-59.01	-59.01	-55.01	-41.20	-13.81
5710MHz Straddle 5.47-5.725GHz	Pass	7G	10G	PK	9.78025G	4.00	-55.93	-55.93	-51.93	-27.00	-24.93
5710MHz Straddle 5.47-5.725GHz	Pass	10G	11G	PK	10.25075G	4.00	-55.93	-55.93	-51.93	-27.00	-24.93

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5710MHz Straddle 5.47-5.725GHz	Pass	11G	12G	PK	11.419G	4.00	-47.68	-47.68	-43.68	-21.20	-22.48
5710MHz Straddle 5.47-5.725GHz	Pass	12G	15G	PK	14.5485G	4.00	-54.12	-54.12	-50.12	-27.00	-23.12
5710MHz Straddle 5.47-5.725GHz	Pass	15G	17G	PK	16.7155G	4.00	-52.64	-52.64	-48.64	-27.00	-21.64
5710MHz Straddle 5.47-5.725GHz	Pass	17G	18G	PK	17.12375G	4.00	-51.46	-51.46	-47.46	-27.00	-20.46
5710MHz Straddle 5.47-5.725GHz	Pass	18G	40G	PK	36.55838G	4.00	-51.23	-51.23	-47.23	-27.00	-20.23
5795MHz	Pass	7G	10G	AV	7.72675G	4.00	-63.00	-63.00	-59.00	-41.20	-17.80
5795MHz	Pass	10G	11G	AV	10.647G	4.00	-65.04	-65.04	-61.04	-41.20	-19.84
5795MHz	Pass	11G	12G	AV	11.59G	4.00	-57.70	-57.70	-53.70	-41.20	-12.50
5795MHz	Pass	11G	12G	AV	11.5915G	4.00	-57.70	-57.70	-53.70	-41.20	-12.50
5795MHz	Pass	12G	15G	AV	12.65925G	4.00	-65.43	-65.43	-61.43	-41.20	-20.23
5795MHz	Pass	15G	17G	AV	16.045G	4.00	-63.29	-63.29	-59.29	-41.20	-18.09
5795MHz	Pass	17G	18G	AV	17.9985G	4.00	-64.33	-64.33	-60.33	-41.20	-19.13
5795MHz	Pass	18G	40G	AV	39.9945G	4.00	-58.97	-58.97	-54.97	-41.20	-13.77
5795MHz	Pass	7G	10G	PK	9.25825G	4.00	-56.13	-56.13	-52.13	-27.00	-25.13
5795MHz	Pass	10G	11G	PK	10.31625G	4.00	-55.46	-55.46	-51.46	-27.00	-24.46
5795MHz	Pass	11G	12G	PK	11.584G	4.00	-48.59	-48.59	-44.59	-21.20	-23.39
5795MHz	Pass	12G	15G	PK	14.99175G	4.00	-54.89	-54.89	-50.89	-27.00	-23.89
5795MHz	Pass	15G	17G	PK	15.0405G	4.00	-53.56	-53.56	-49.56	-27.00	-22.56
5795MHz	Pass	17G	18G	PK	17.53525G	4.00	-54.09	-54.09	-50.09	-27.00	-23.09
5795MHz	Pass	18G	40G	PK	36.41881G	4.00	-50.18	-50.18	-46.18	-27.00	-19.18
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7G	10G	AV	7.60225G	4.00	-67.04	-67.04	-63.04	-41.20	-21.84
5210MHz	Pass	10G	11G	AV	10.705G	4.00	-64.75	-64.75	-60.75	-41.20	-19.55
5210MHz	Pass	11G	12G	AV	11.18925G	4.00	-66.37	-66.37	-62.37	-41.20	-21.17
5210MHz	Pass	12G	15G	AV	12.6495G	4.00	-65.46	-65.46	-61.46	-41.20	-20.26
5210MHz	Pass	15G	17G	AV	15.5835G	4.00	-62.60	-62.60	-58.60	-41.20	-17.40
5210MHz	Pass	17G	18G	AV	17.9985G	4.00	-64.10	-64.10	-60.10	-41.20	-18.90
5210MHz	Pass	18G	40G	AV	39.99931G	4.00	-59.39	-59.39	-55.39	-41.20	-14.19
5210MHz	Pass	7G	10G	PK	9.751G	4.00	-56.51	-56.51	-52.51	-27.00	-25.51
5210MHz	Pass	10G	11G	PK	10.227G	4.00	-55.48	-55.48	-51.48	-27.00	-24.48
5210MHz	Pass	10G	11G	PK	10.39125G	4.00	-57.57	-57.57	-53.57	-27.00	-26.57
5210MHz	Pass	11G	12G	PK	11.26675G	4.00	-56.43	-56.43	-52.43	-21.20	-31.23
5210MHz	Pass	12G	15G	PK	14.838G	4.00	-54.27	-54.27	-50.27	-27.00	-23.27
5210MHz	Pass	15G	17G	PK	16.6245G	4.00	-53.40	-53.40	-49.40	-27.00	-22.40
5210MHz	Pass	17G	18G	PK	17.0815G	4.00	-54.44	-54.44	-50.44	-27.00	-23.44
5210MHz	Pass	18G	40G	PK	38.27438G	4.00	-50.97	-50.97	-46.97	-27.00	-19.97
5775MHz	Pass	7G	10G	AV	7.69975G	4.00	-57.92	-57.92	-53.92	-41.20	-12.72
5775MHz	Pass	10G	11G	AV	10.645G	4.00	-64.47	-64.47	-60.47	-41.20	-19.27
5775MHz	Pass	11G	12G	AV	11.564G	4.00	-64.91	-64.91	-60.91	-41.20	-19.71
5775MHz	Pass	12G	15G	AV	12.645G	4.00	-65.49	-65.49	-61.49	-41.20	-20.29
5775MHz	Pass	15G	17G	AV	16.014G	4.00	-62.85	-62.85	-58.85	-41.20	-17.65
5775MHz	Pass	17G	18G	AV	17.99375G	4.00	-63.80	-63.80	-59.80	-41.20	-18.60
5775MHz	Pass	18G	40G	AV	40G	4.00	-59.38	-59.38	-55.38	-41.20	-14.18
5775MHz	Pass	7G	10G	PK	7.0585G	4.00	-56.61	-56.61	-52.61	-27.00	-25.61
5775MHz	Pass	10G	11G	PK	10.294G	4.00	-55.45	-55.45	-51.45	-27.00	-24.45

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5775MHz	Pass	11G	12G	PK	11.5815G	4.00	-55.69	-55.69	-51.69	-21.20	-30.49
5775MHz	Pass	12G	15G	PK	14.9955G	4.00	-54.61	-54.61	-50.61	-27.00	-23.61
5775MHz	Pass	15G	17G	PK	15.1955G	4.00	-54.18	-54.18	-50.18	-27.00	-23.18
5775MHz	Pass	17G	18G	PK	17.3345G	4.00	-52.92	-52.92	-48.92	-27.00	-21.92
5775MHz	Pass	18G	40G	PK	36.40506G	4.00	-50.85	-50.85	-46.85	-27.00	-19.85

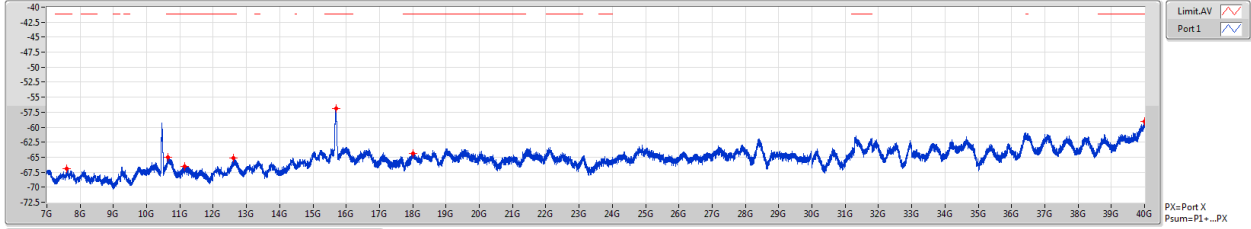
DG = Directional Gain;  
PX=Port X; Psum=P1+.P2+..PX



802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE [AV]

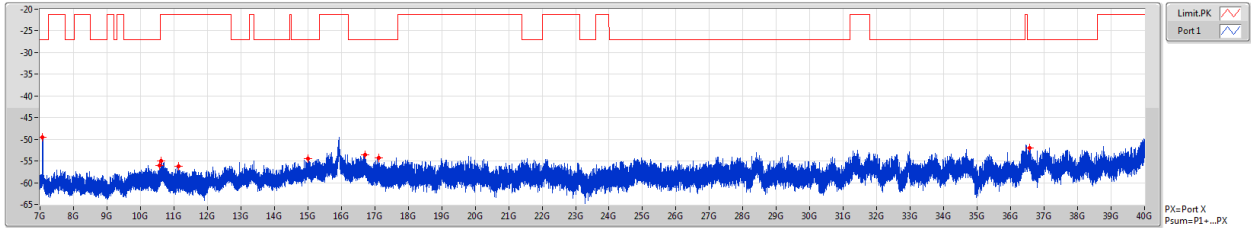
5230MHz



802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE [PK]

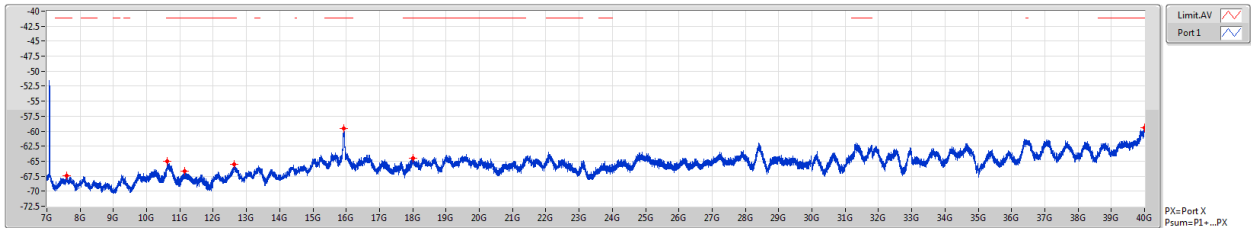
5310MHz



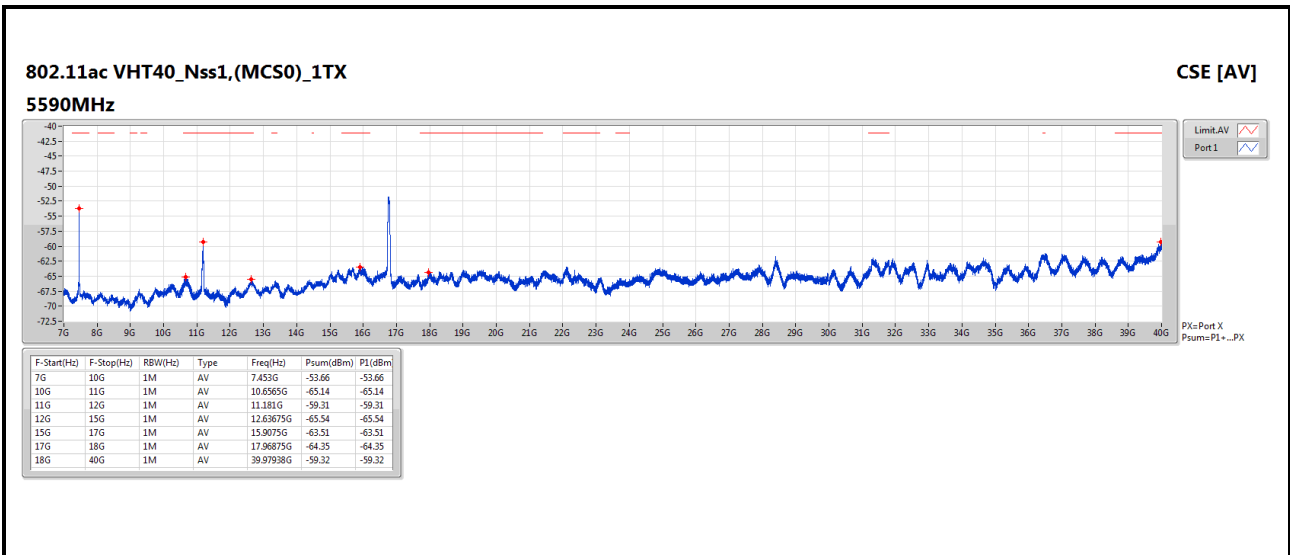
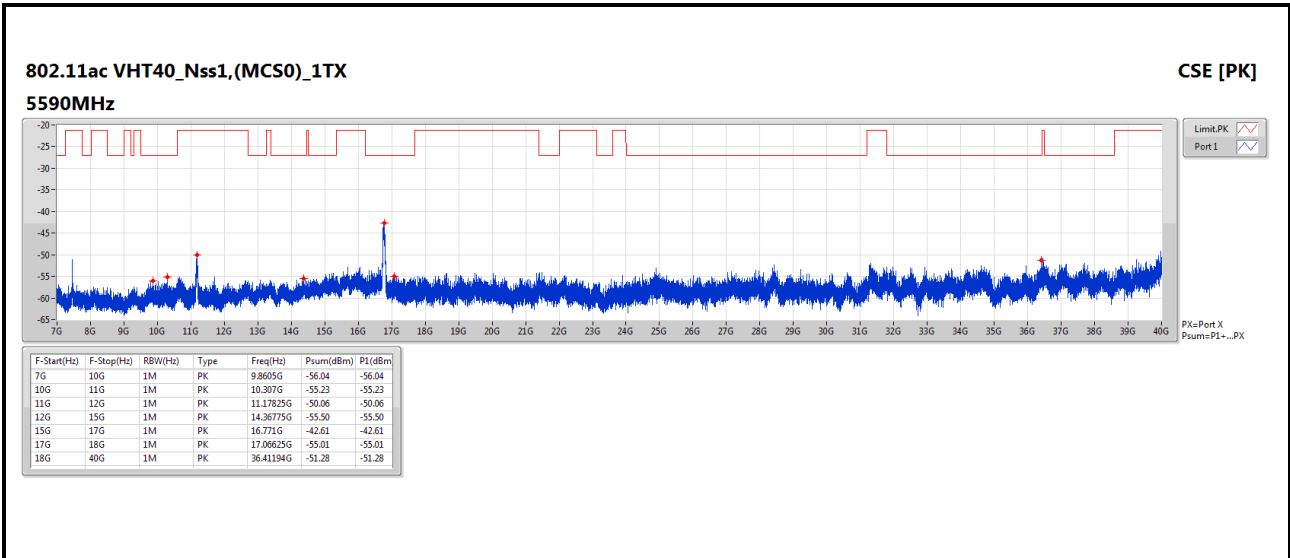
802.11ac VHT40\_Nss1,(MCS0)\_1TX

CSE [AV]

5310MHz

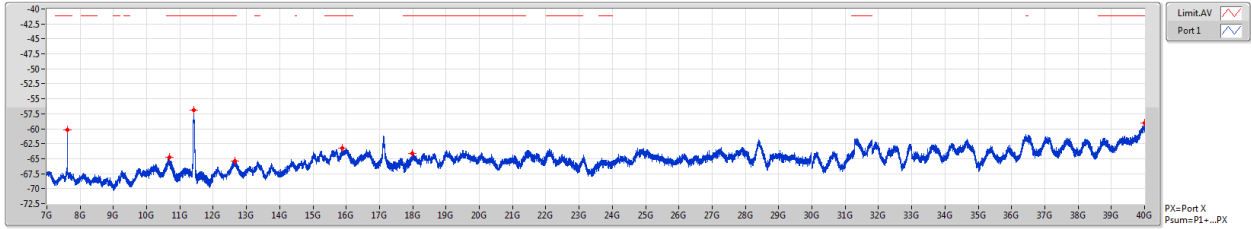






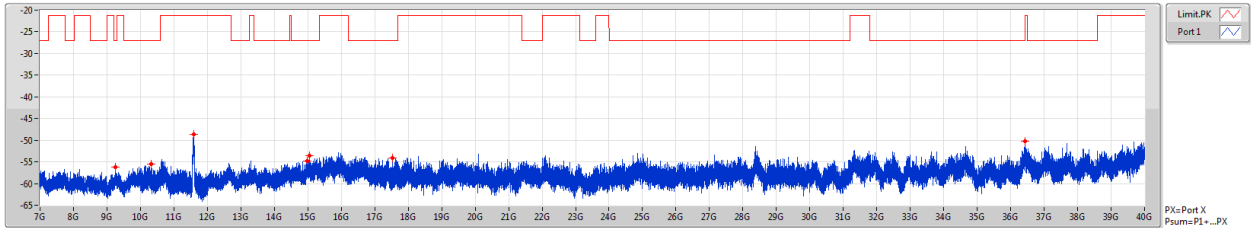
**802.11ac VHT40\_Nss1,(MCS0)\_1TX**  
**5710MHz Straddle 5.47-5.725GHz**

CSE [AV]



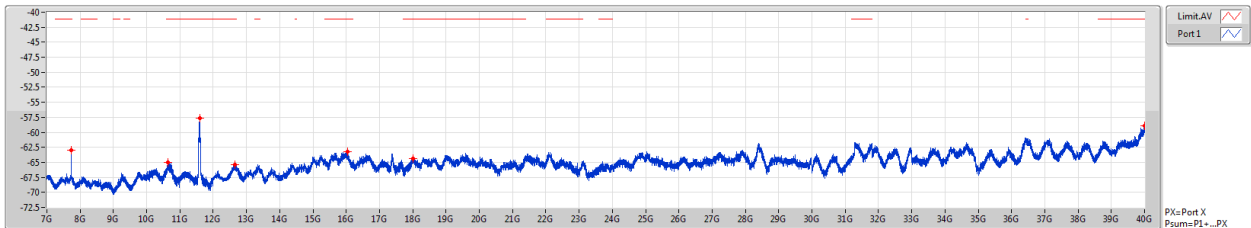
**802.11ac VHT40\_Nss1,(MCS0)\_1TX**  
**5795MHz**

CSE [PK]



**802.11ac VHT40\_Nss1,(MCS0)\_1TX**  
**5795MHz**

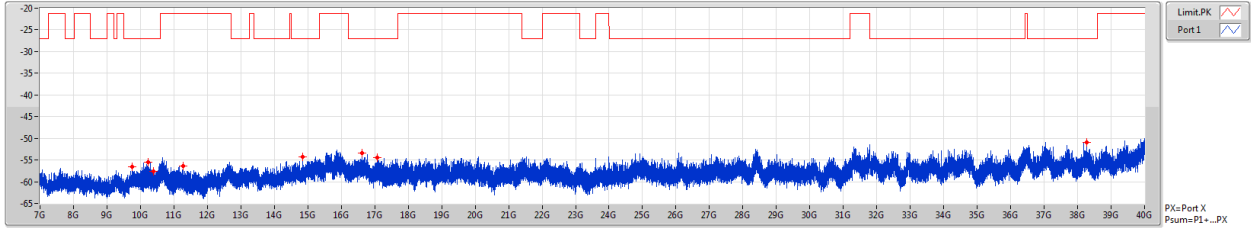
CSE [AV]



802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [PK]

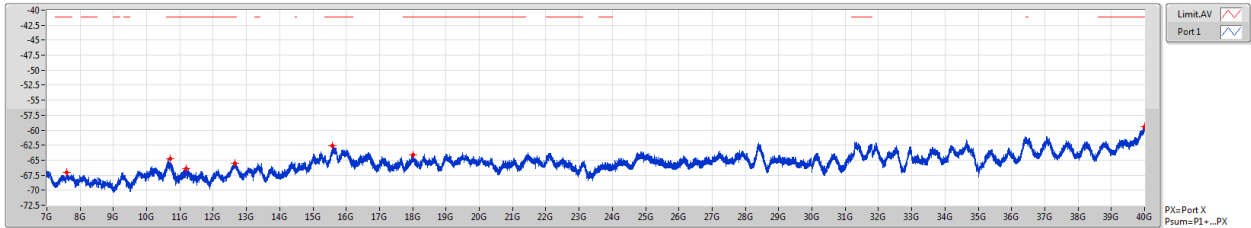
5210MHz



802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [AV]

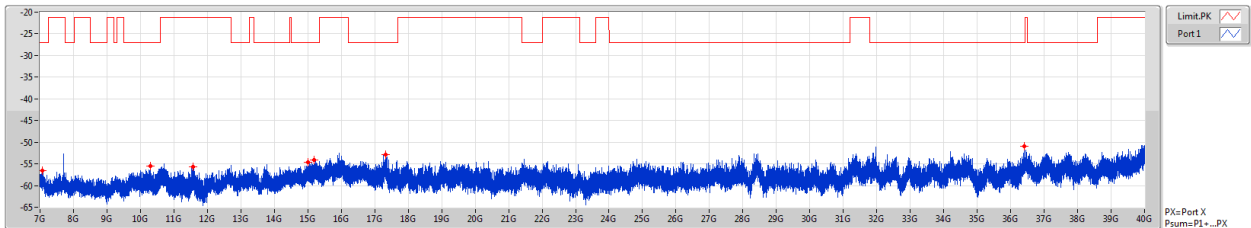
5210MHz

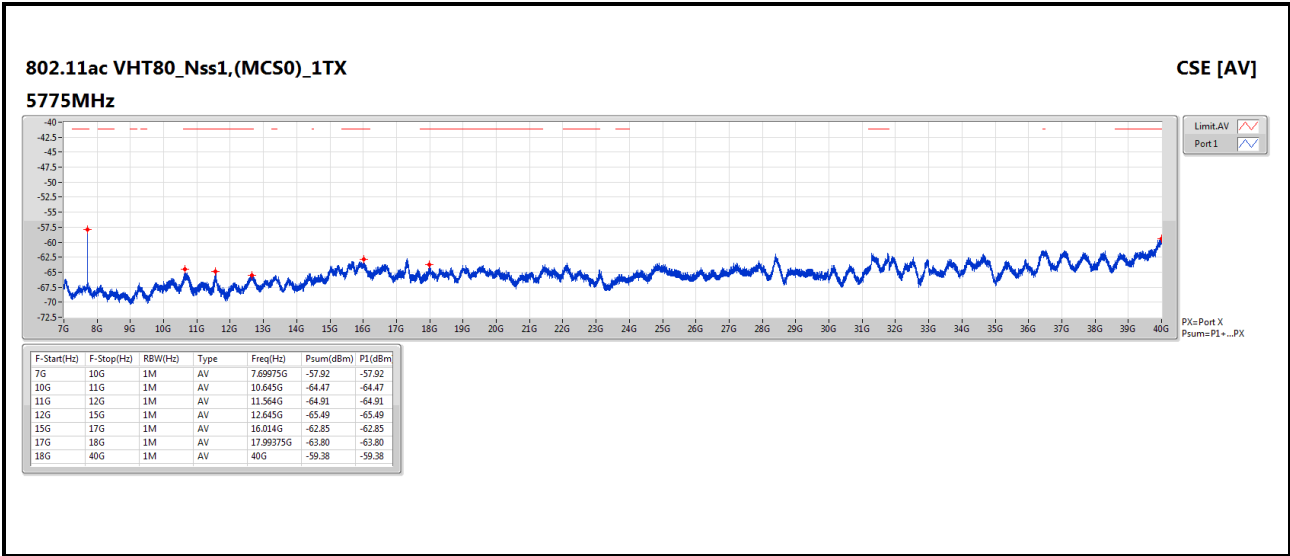


802.11ac VHT80\_Nss1,(MCS0)\_1TX

CSE [PK]

5775MHz





## 3.6 Frequency Stability

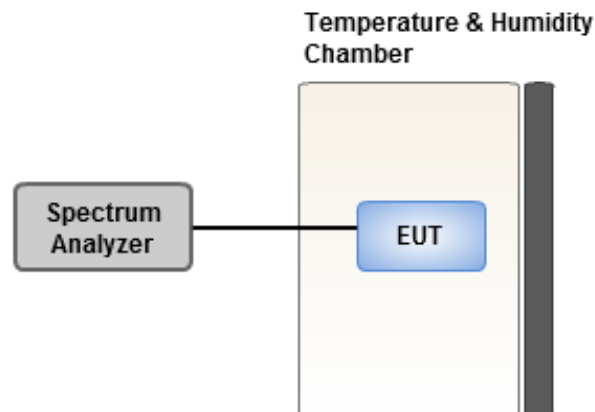
### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

### 3.6.3 Test Setup



### 3.6.4 Test Result of Frequency Stability

<b>Ambient Condition</b>	23°C / 63%	<b>Tested By</b>	Brad Wu
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Frequency: 5300 MHz	Frequency Drift (ppm)				
	Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax		-10.79	-10.71	-10.78	-10.90
T20°CVmin		-11.31	-11.22	-11.14	-10.50
T85°CVnom		4.06	3.93	4.27	4.35
T80°CVnom		2.21	2.46	2.30	1.93
T70°CVnom		0.87	0.96	0.53	1.19
T60°CVnom		0.05	0.04	0.62	0.91
T50°CVnom		-3.98	-3.92	-3.88	-3.94
T40°CVnom		-5.40	-4.64	-5.73	-5.22
T30°CVnom		-7.22	-7.05	-6.38	-6.48
T20°CVnom		-10.59	-10.20	-10.87	-10.35
T10°CVnom		-10.72	-10.68	-11.18	-10.16
T0°CVnom		-11.14	-11.01	-11.15	-10.86
T-10°CVnom		-10.51	-10.59	-10.18	-10.56
T-20°CVnom		-10.14	-9.69	-9.79	-10.28
T-30°CVnom		-10.92	-10.64	-10.26	-10.96
T-40°CVnom		-10.86	-10.73	-10.92	-10.55
Vnom [V]: 3.3		Vmax [V]: 4.8		Vmin [V]: 3.13	
Tnom [°C]: 20		Tmax [°C]: 85		Tmin [°C]: -40	

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-9.37	-9.32	-9.53	-9.42
T20°CVmin	-8.45	-8.40	-8.33	-8.28
T85°CVnom	4.11	4.53	4.24	4.24
T80°CVnom	2.72	2.85	2.74	2.48
T70°CVnom	2.10	2.34	2.20	1.83
T60°CVnom	0.43	0.52	0.22	0.42
T50°CVnom	-3.65	-3.27	-3.80	-3.57
T40°CVnom	-4.21	-4.45	-4.45	-4.02
T30°CVnom	-5.78	-5.22	-5.34	-5.42
T20°CVnom	-8.59	-8.36	-8.76	-8.61
T10°CVnom	-8.57	-8.08	-8.17	-8.45
T0°CVnom	-9.86	-9.77	-9.83	-9.29
T-10°CVnom	-8.55	-8.21	-8.00	-8.13
T-20°CVnom	-8.01	-8.13	-7.71	-8.25
T-30°CVnom	-10.95	-10.45	-10.82	-10.31
T-40°CVnom	-9.23	-9.02	-8.99	-9.59
Vnom [V]: 3.3	Vmax [V]: 4.8		Vmin [V]: 3.13	
Tnom [°C]: 20	Tmax [°C]: 85		Tmin [°C]: -40	

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin  
Kou District, New Taipei City,  
Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,  
Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

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