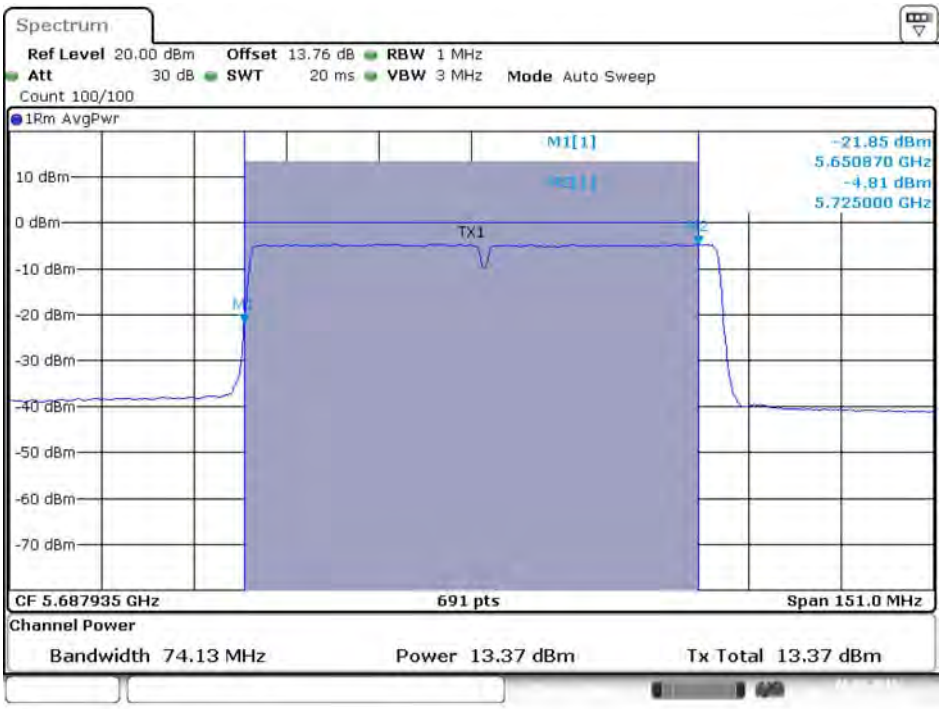
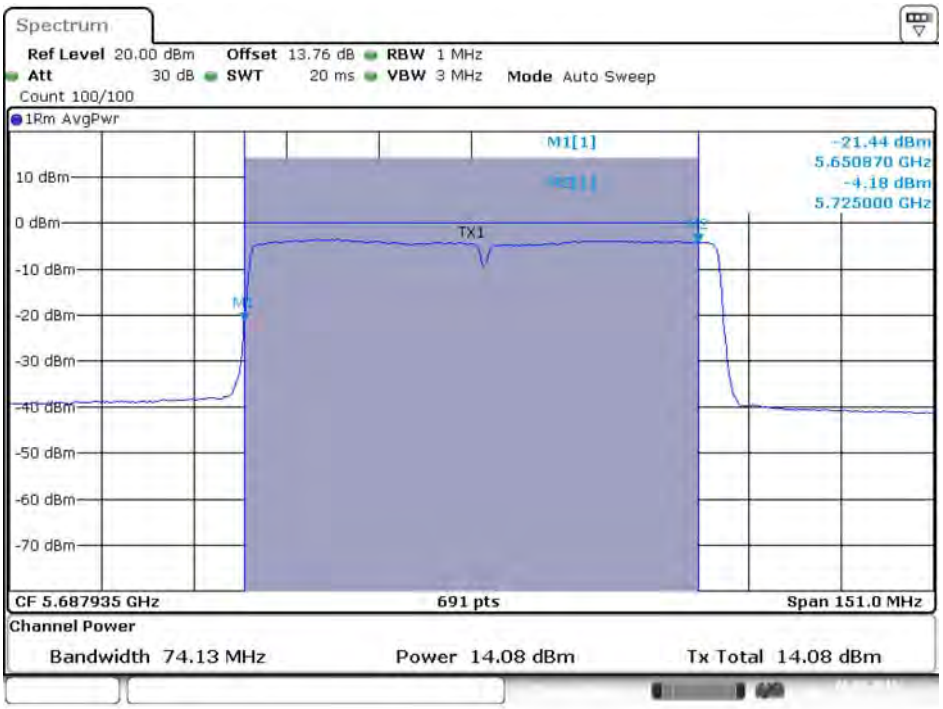
Type 9

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 2C)



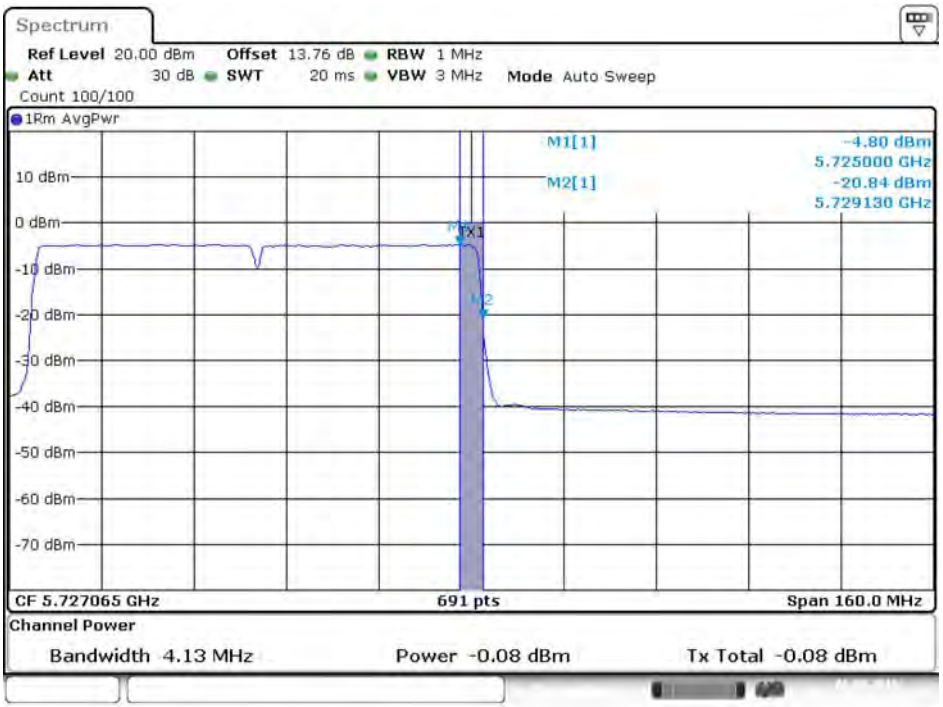
Date: 6.AUG.2016 11:26:25

Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 2C)



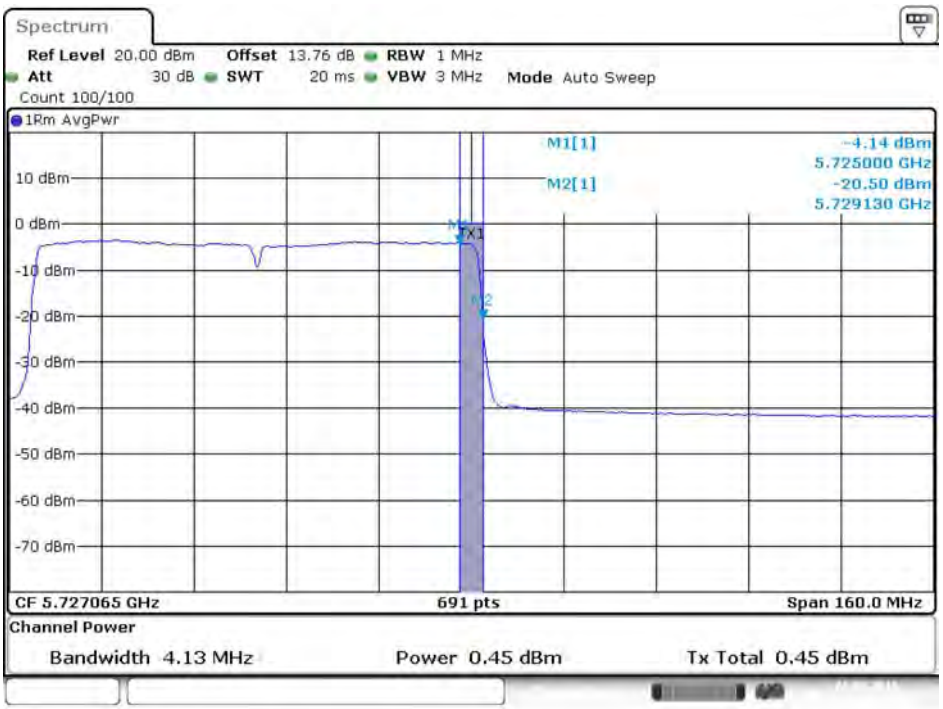
Date: 6.AUG.2016 11:26:32

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 3)



Date: 6.AUG.2016 11:26:28

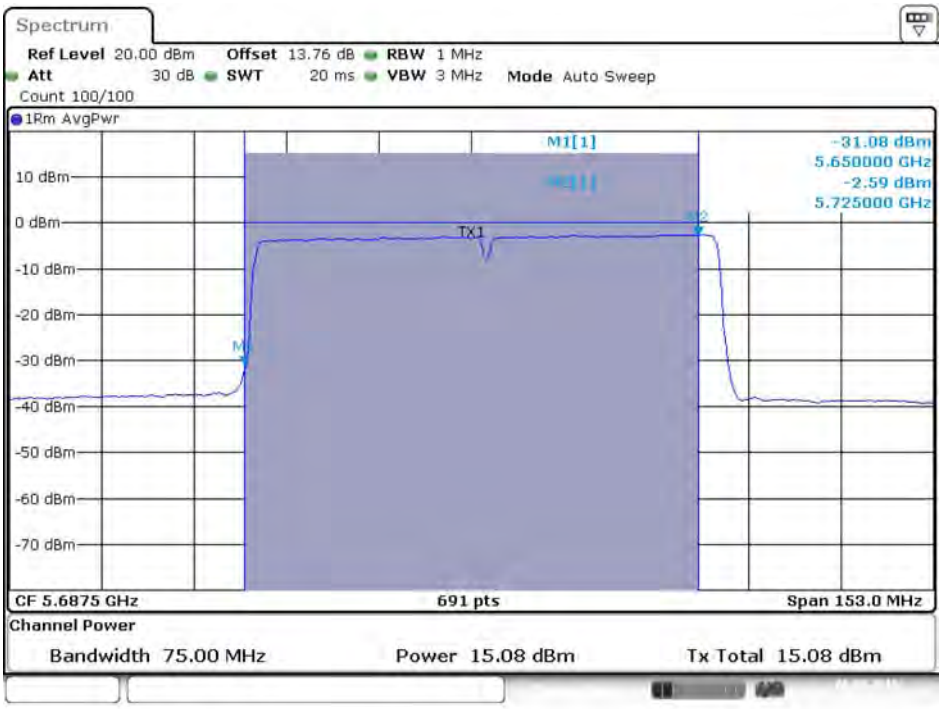
Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 3)



Date: 6.AUG.2016 11:26:35

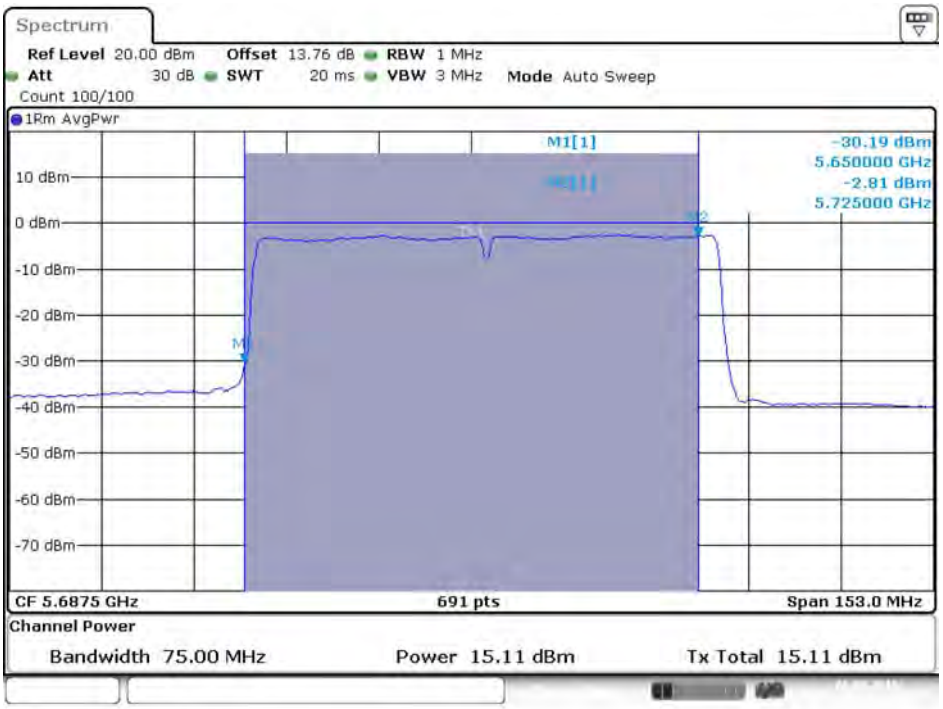
Type 12

Conducted Output Power Plot on Chain 1 / 5690 MHz (UNII 2C)



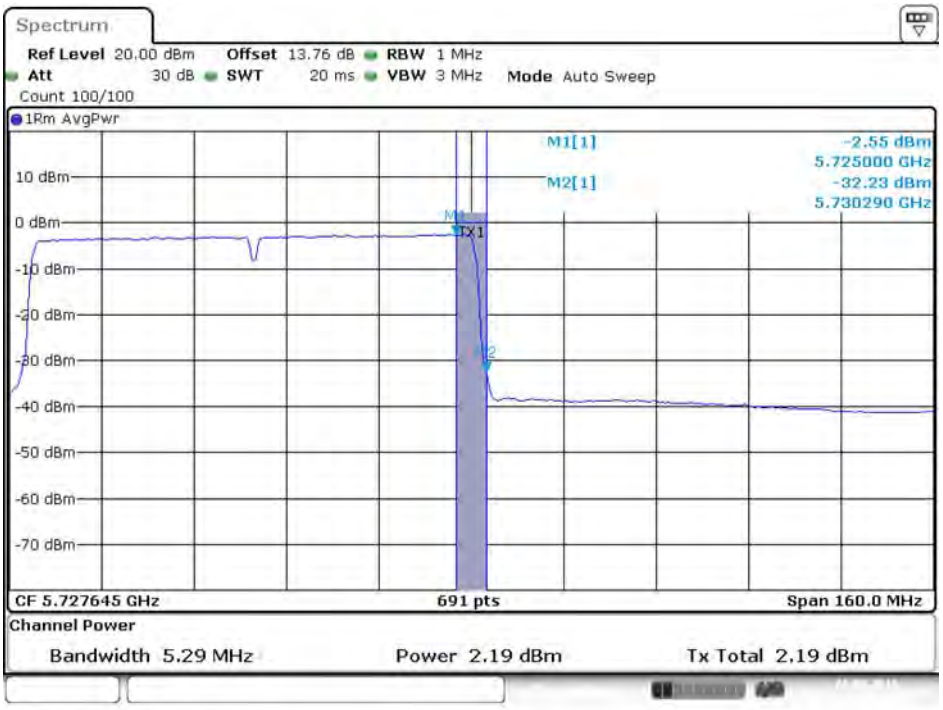
Date: 6.AUG.2016 11:44:52

Conducted Output Power Plot on Chain 2 / 5690 MHz (UNII 2C)



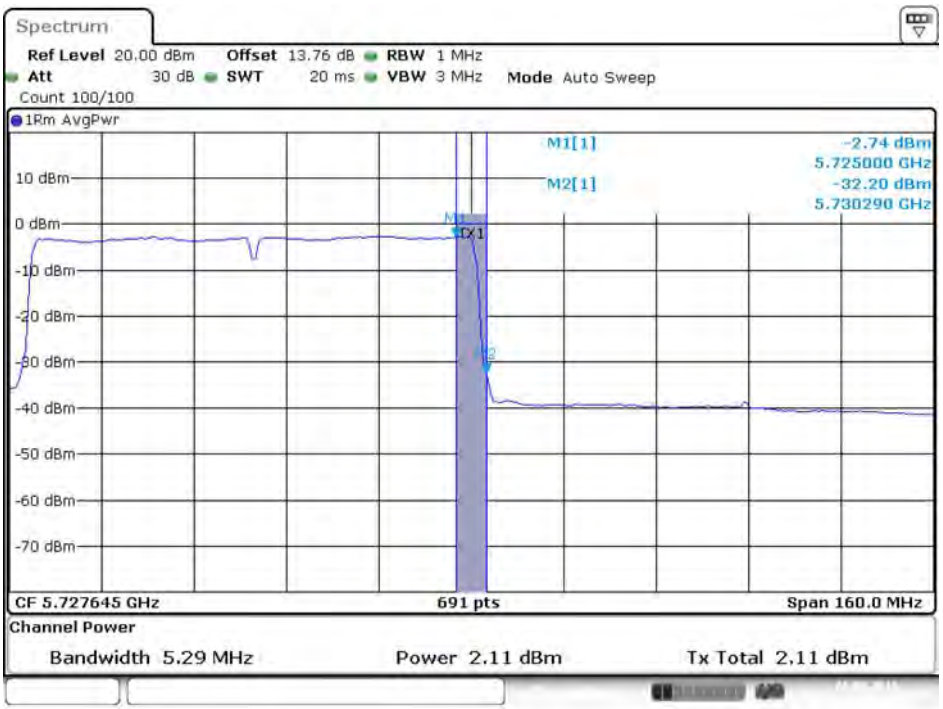
Date: 6.AUG.2016 11:44:59

Conducted Output Power Plot on Chain 1 / 5690 MHz (UNII 3)



Date: 6.AUG.2016 11:44:55

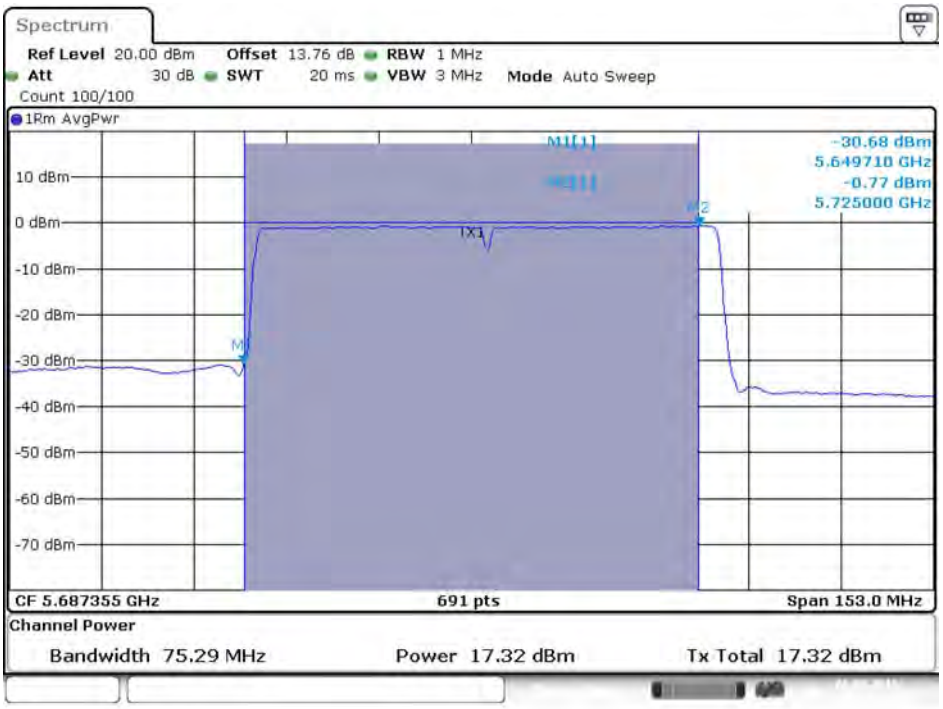
Conducted Output Power Plot on Chain 2 / 5690 MHz (UNII 3)



Date: 6.AUG.2016 11:45:02

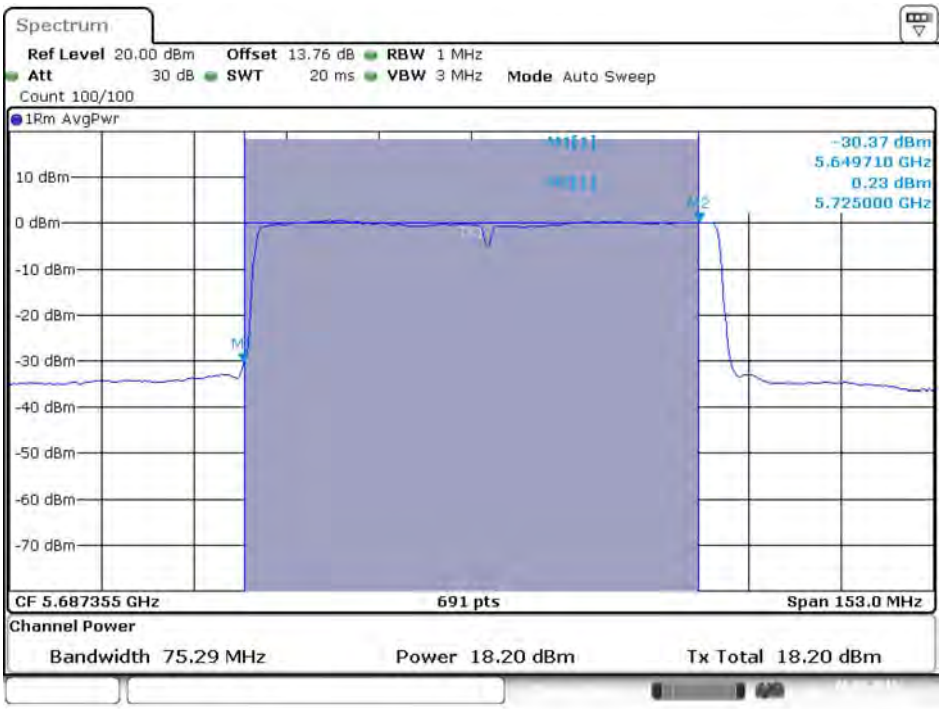
Type 15

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 2C)



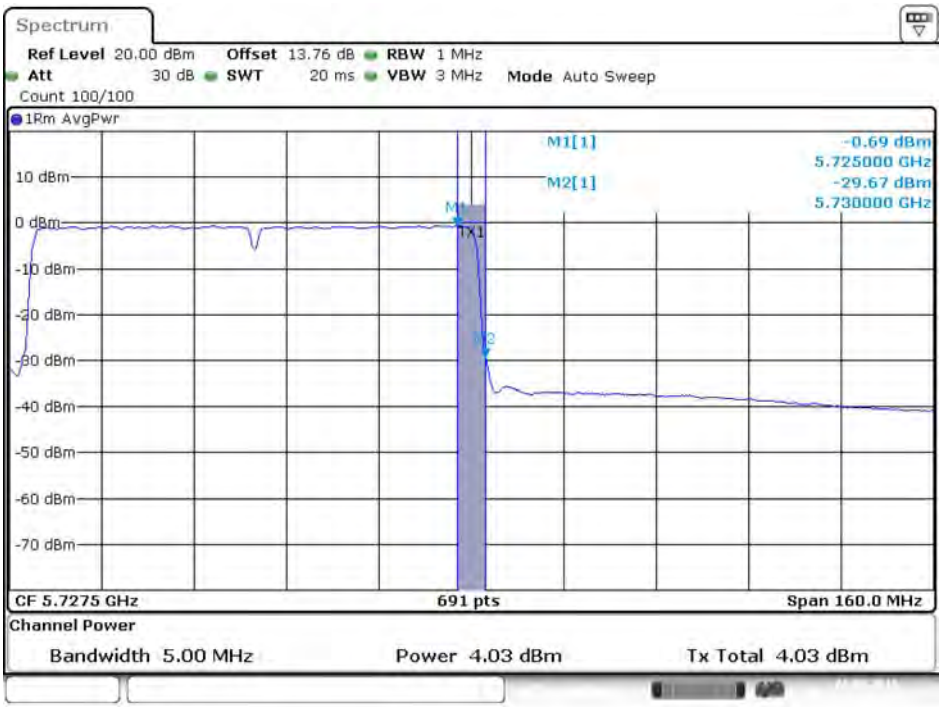
Date: 6.AUG.2016 11:53:17

Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 2C)



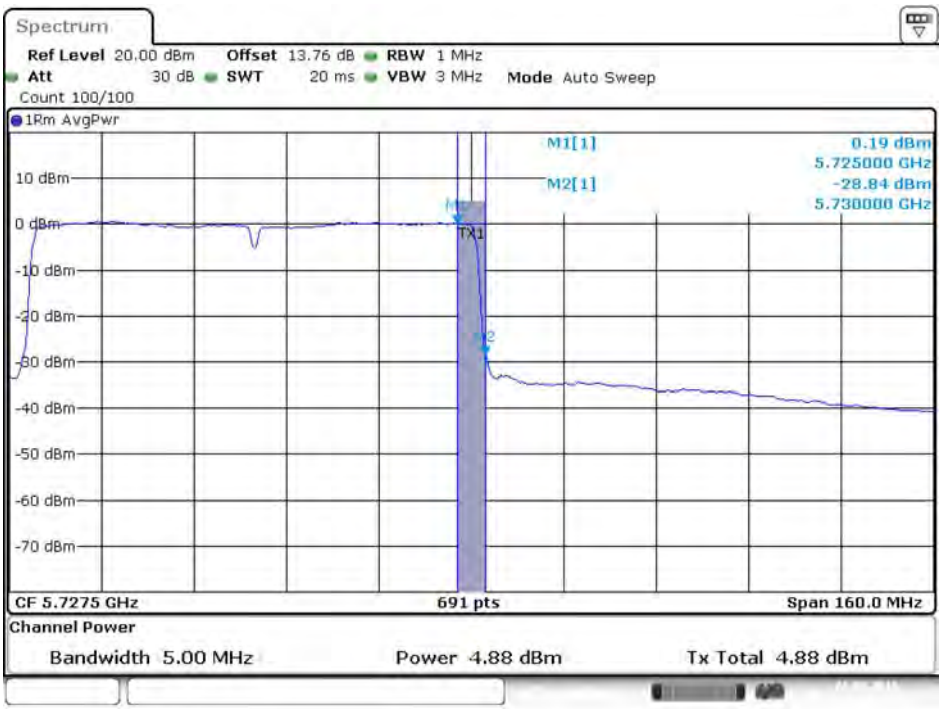
Date: 6.AUG.2016 11:53:24

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 3)



Date: 6.AUG.2016 11:53:20

Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 3)



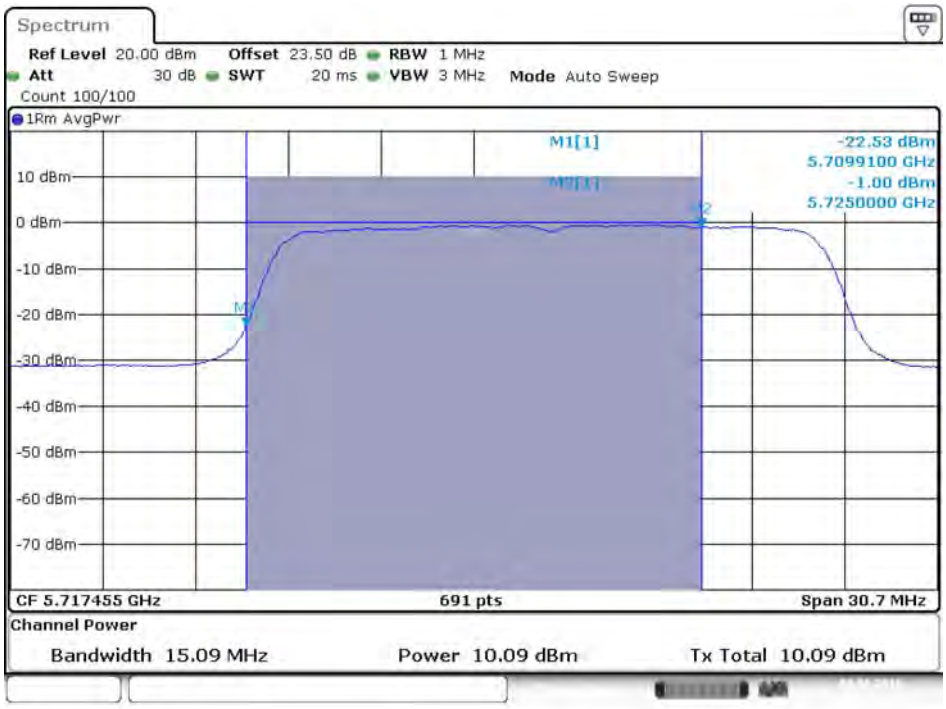
Date: 6.AUG.2016 11:53:27

For beamforming mode

For indoor, outdoor use master and slave without radar detection

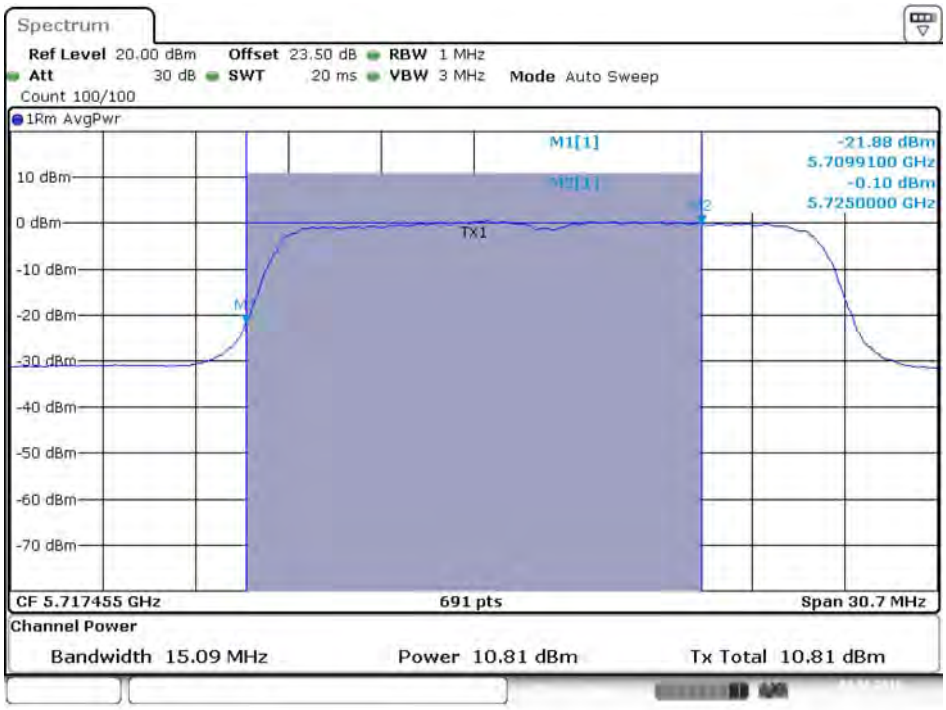
Straddle Channel

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 2C)



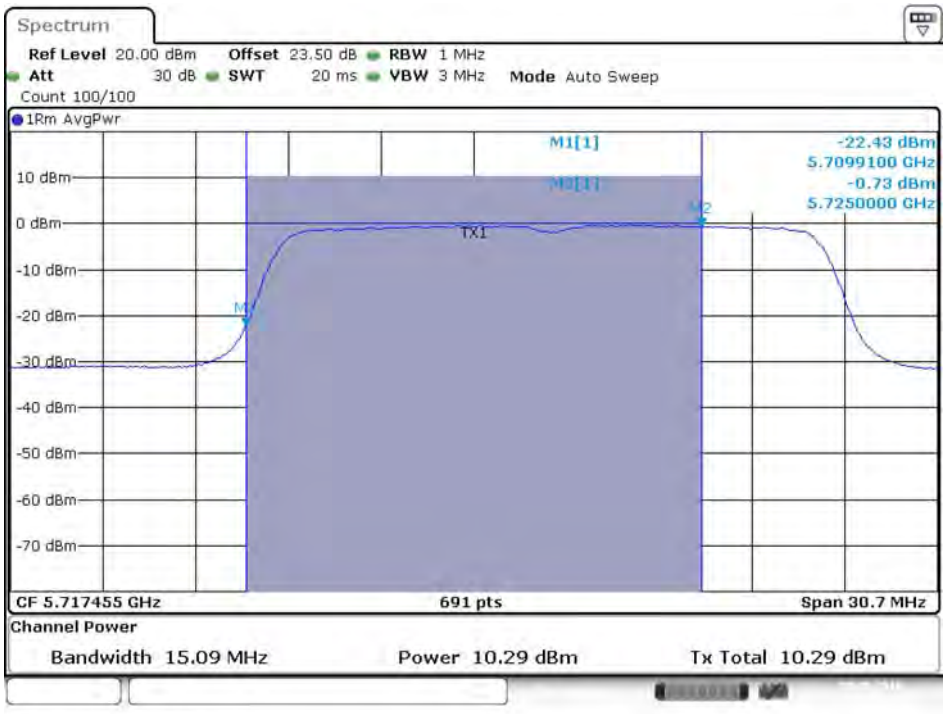
Date: 9.AUG.2016 01:18:35

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 2C)



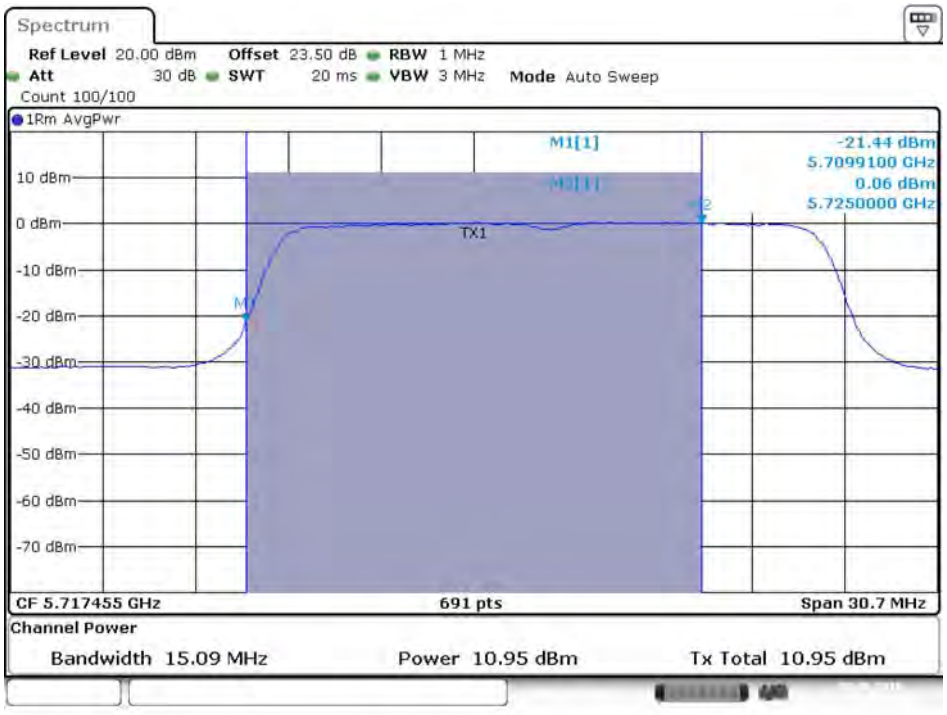
Date: 9.AUG.2016 01:14:50

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 2C)



Date: 9.AUG.2016 01:10:35

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5720 MHz (UNII 2C)

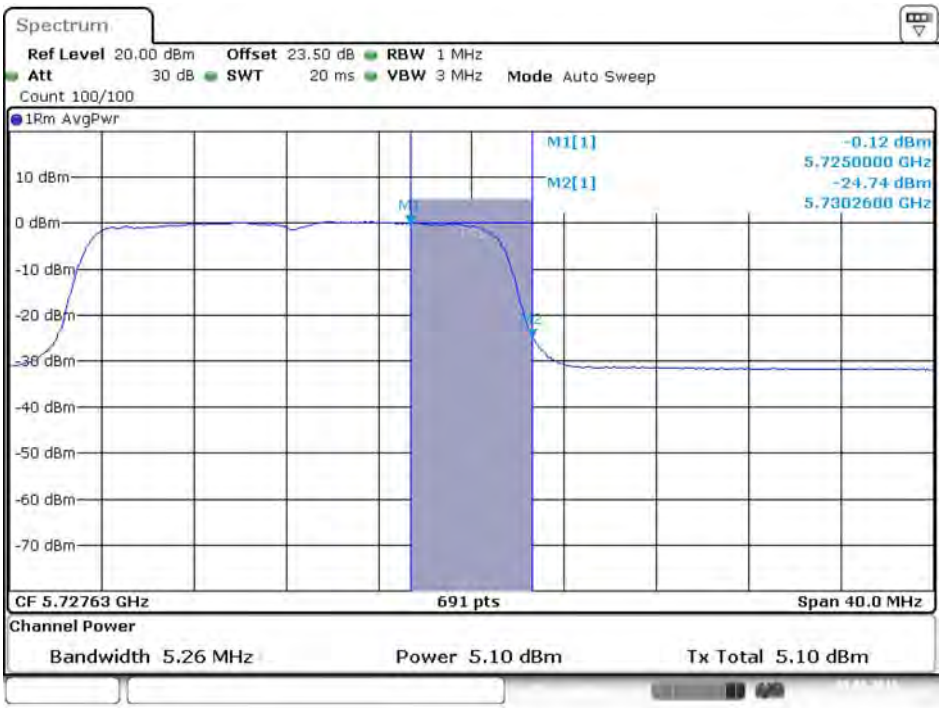


Date: 9.AUG.2016 01:02:35

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 / 5720 MHz (UNII 3)

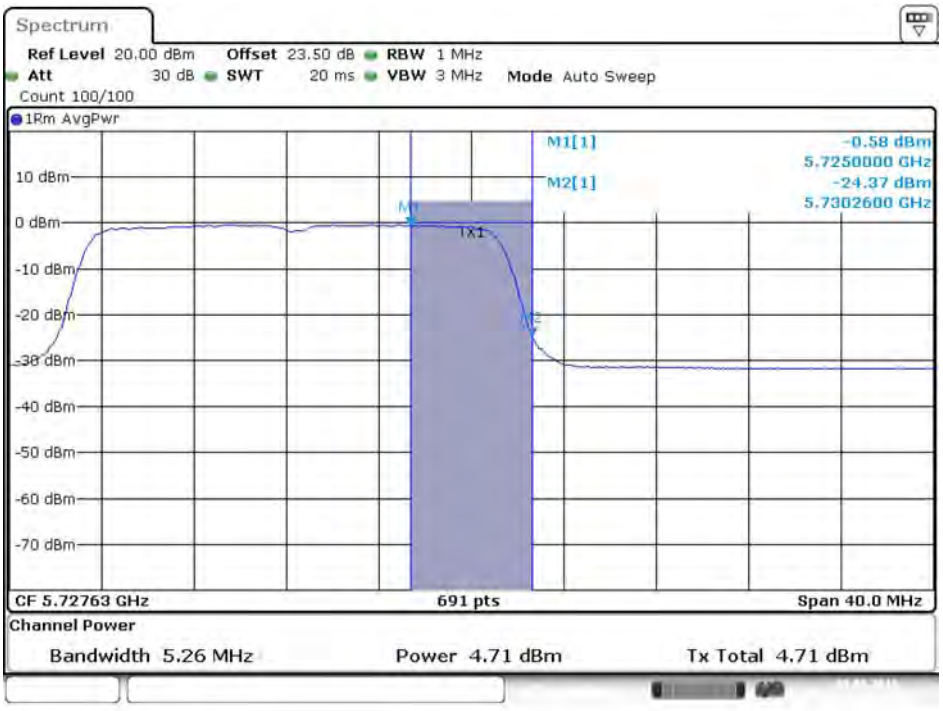
Date: 9.AUG.2016 01:18:39

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 2 / 5720 MHz (UNII 3)



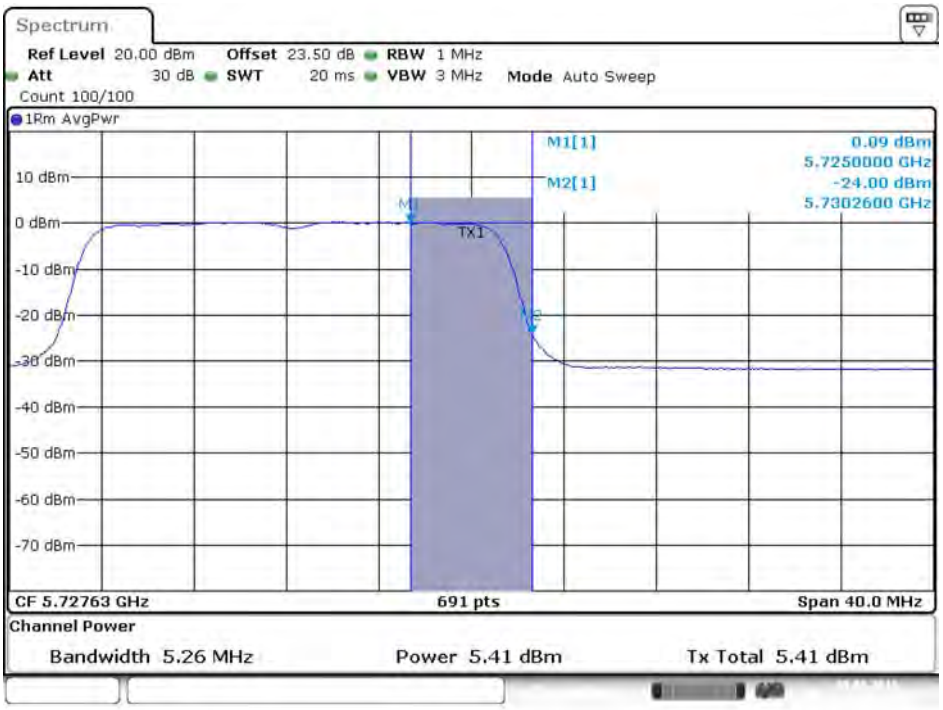
Date: 9.AUG.2016 01:14:53

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 3 / 5720 MHz (UNII 3)



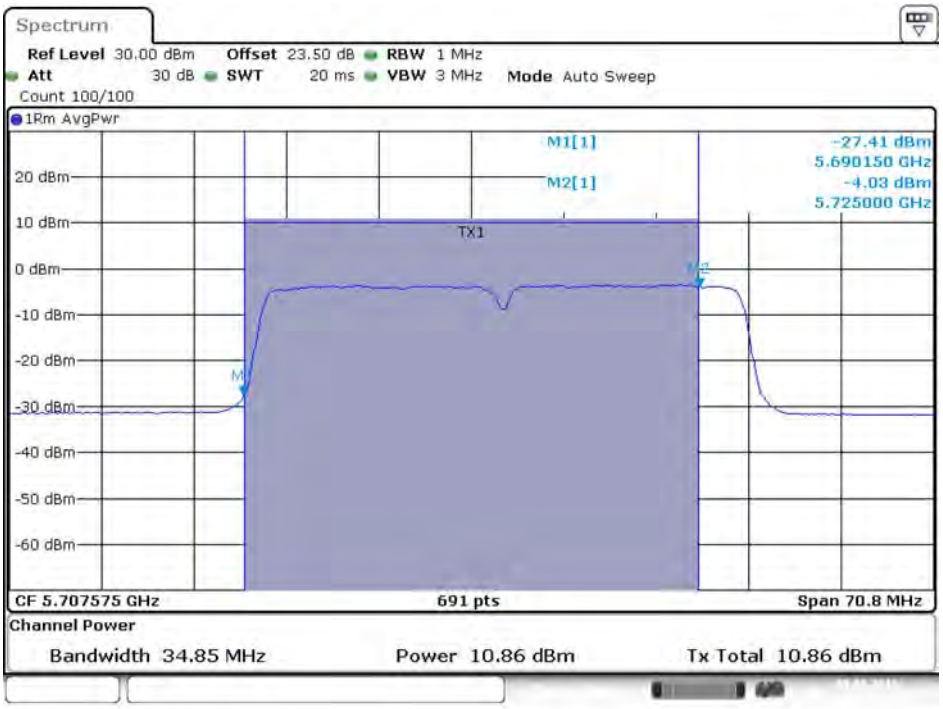
Date: 9.AUG.2016 01:10:39

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 4 / 5720 MHz (UNII 3)



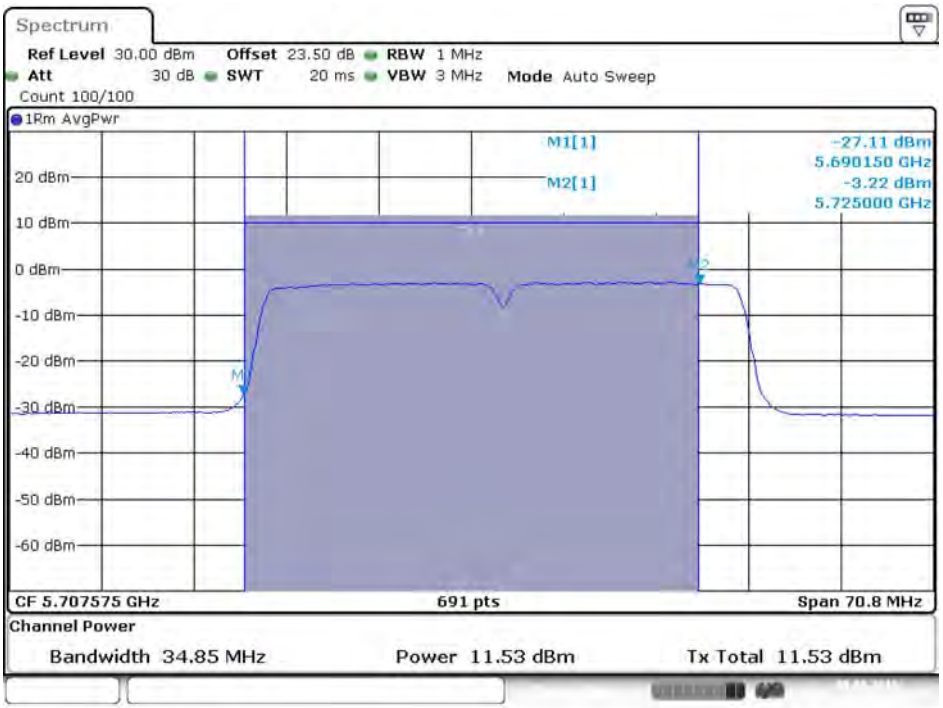
Date: 9.AUG.2016 01:02:39

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 2C)



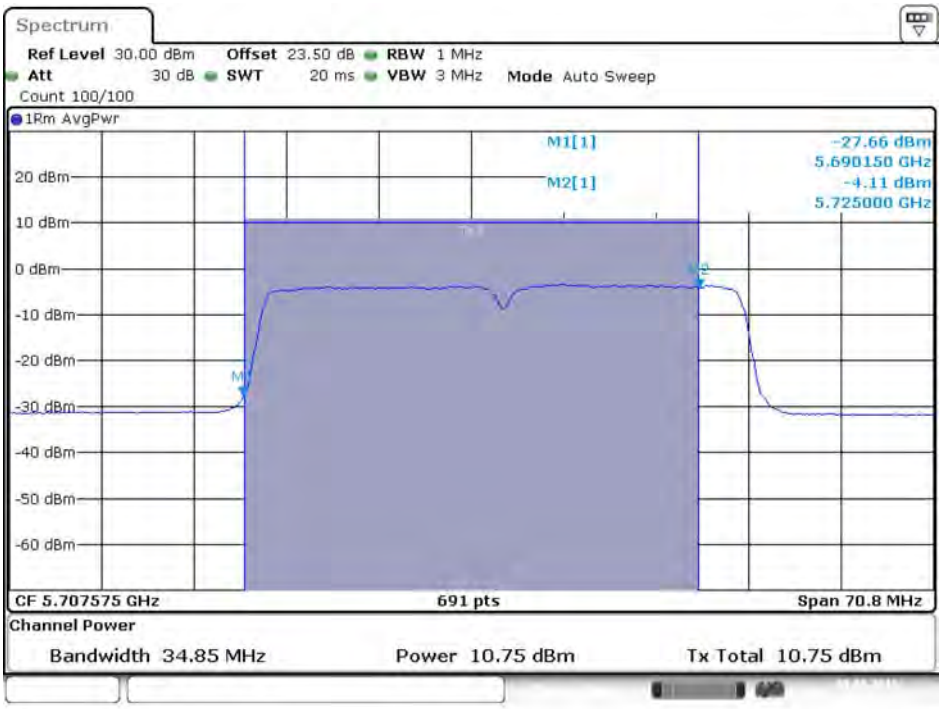
Date: 9.AUG.2016 03:10:42

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 2C)



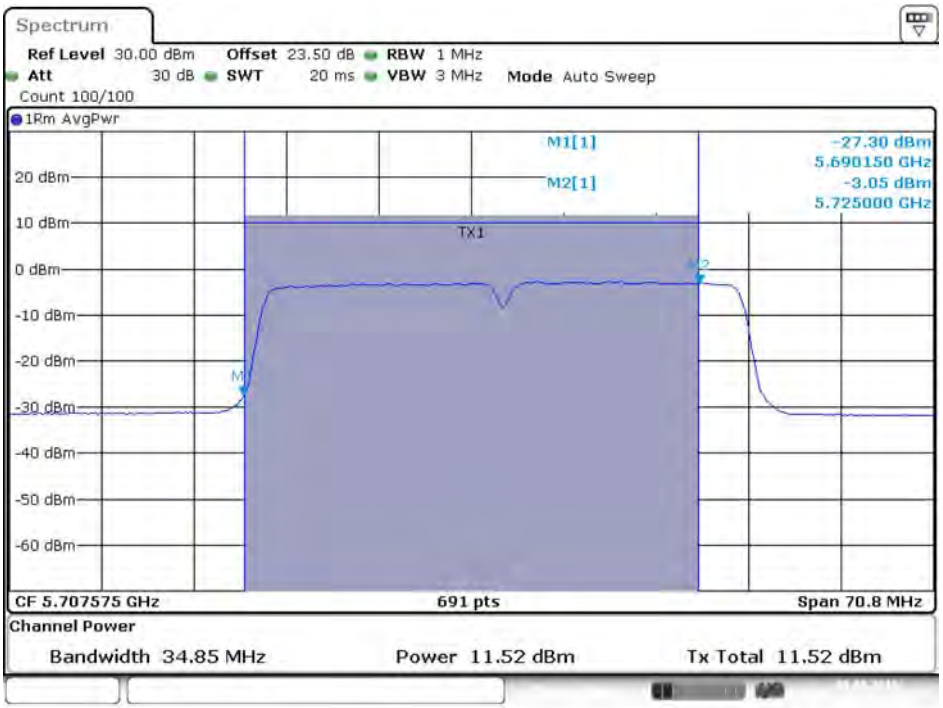
Date: 9.AUG.2016 03:08:17

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 2C)



Date: 9.AUG.2016 03:05:47

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5710 MHz (UNII 2C)

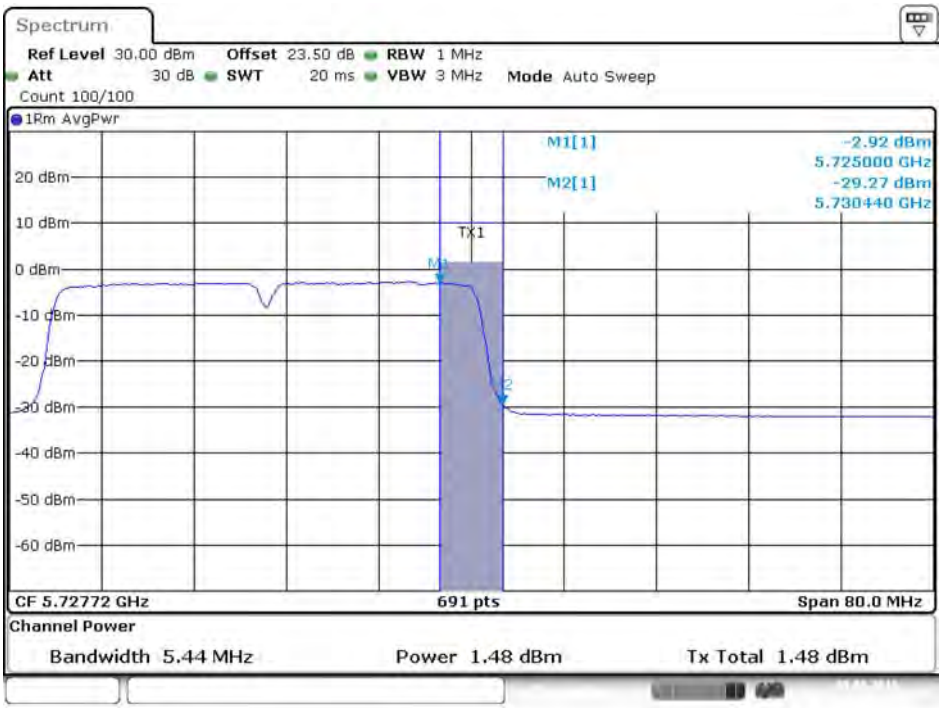


Date: 9.AUG.2016 02:59:54

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 / 5710 MHz (UNII 3)

Date: 9.AUG.2016 03:10:46

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 2 / 5710 MHz (UNII 3)



Date: 9.AUG.2016 03:08:20

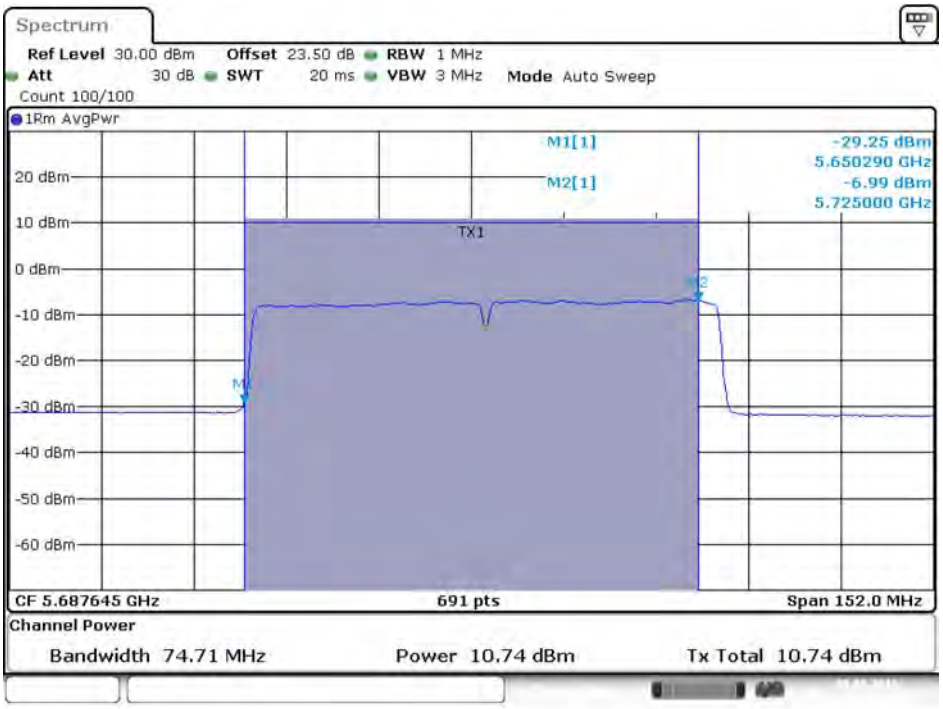
Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 3 / 5710 MHz (UNII 3)

Date: 9.AUG.2016 03:05:51

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 4 / 5710 MHz (UNII 3)

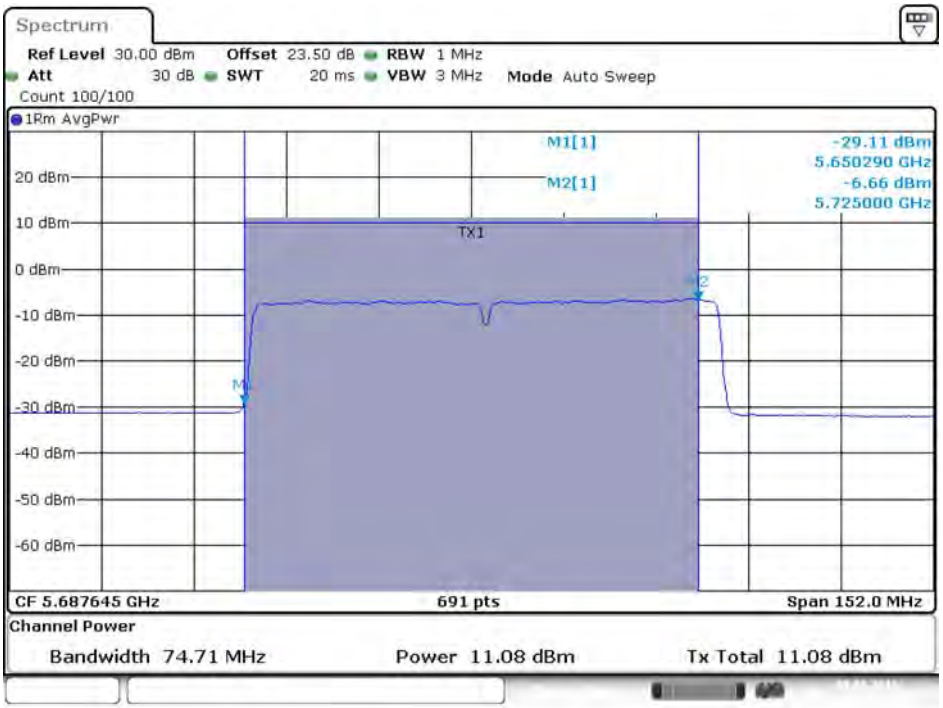
Date: 9.AUG.2016 02:59:58

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 2C)



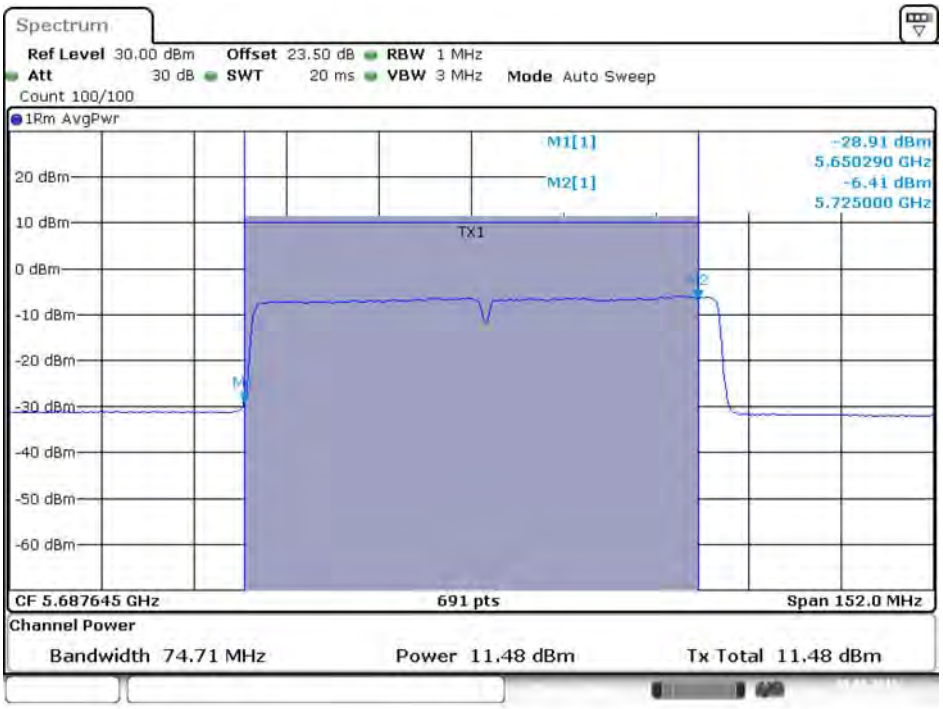
Date: 9.AUG.2016 02:36:05

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 2C)



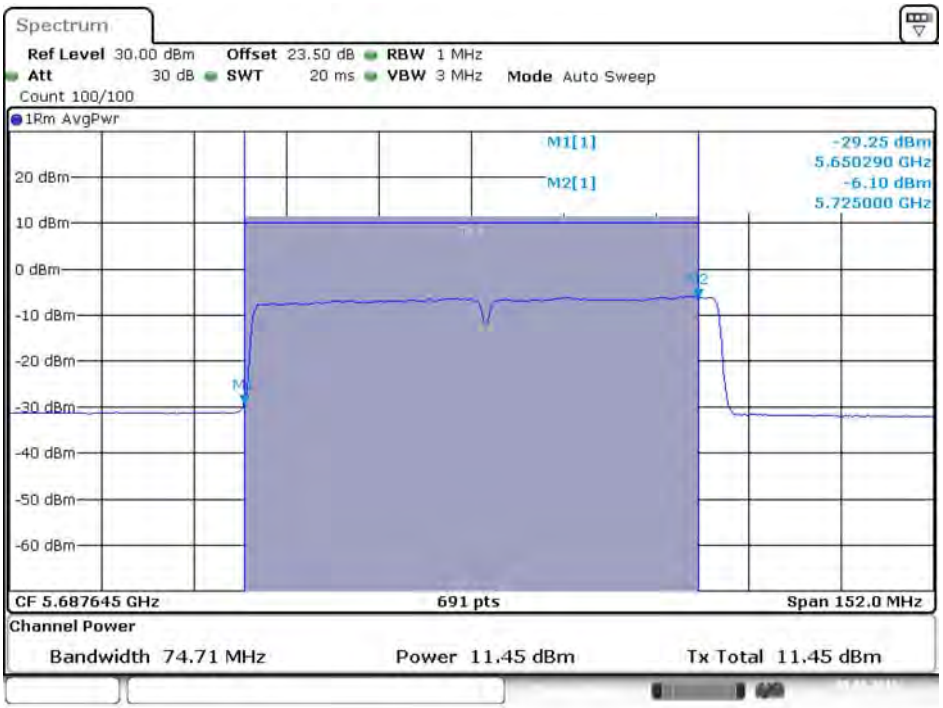
Date: 9.AUG.2016 02:38:20

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 2C)



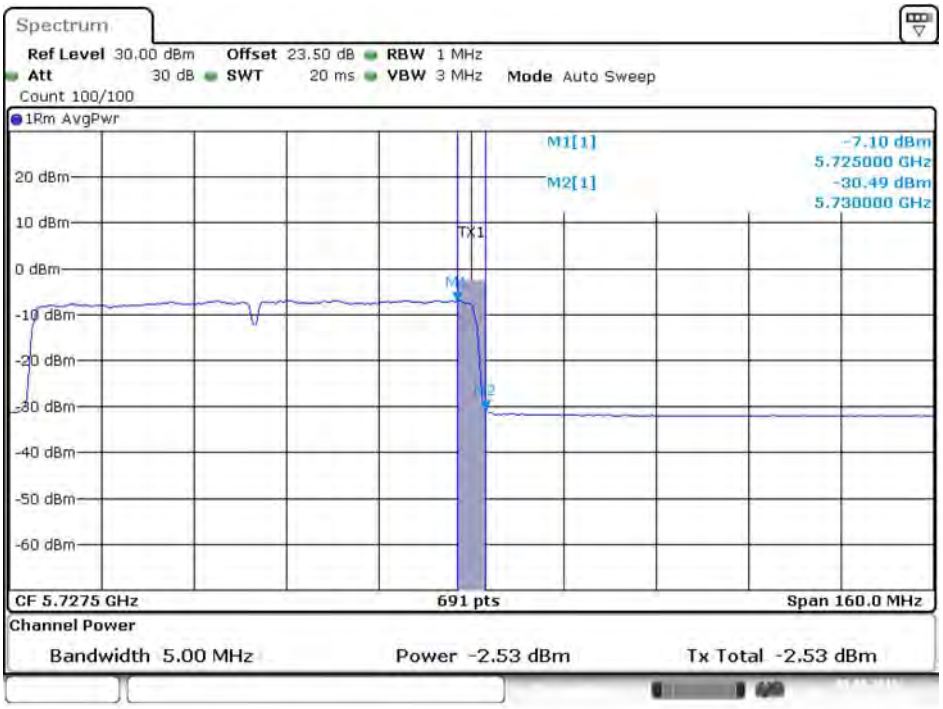
Date: 9.AUG.2016 02:40:07

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 4 / 5690 MHz (UNII 2C)



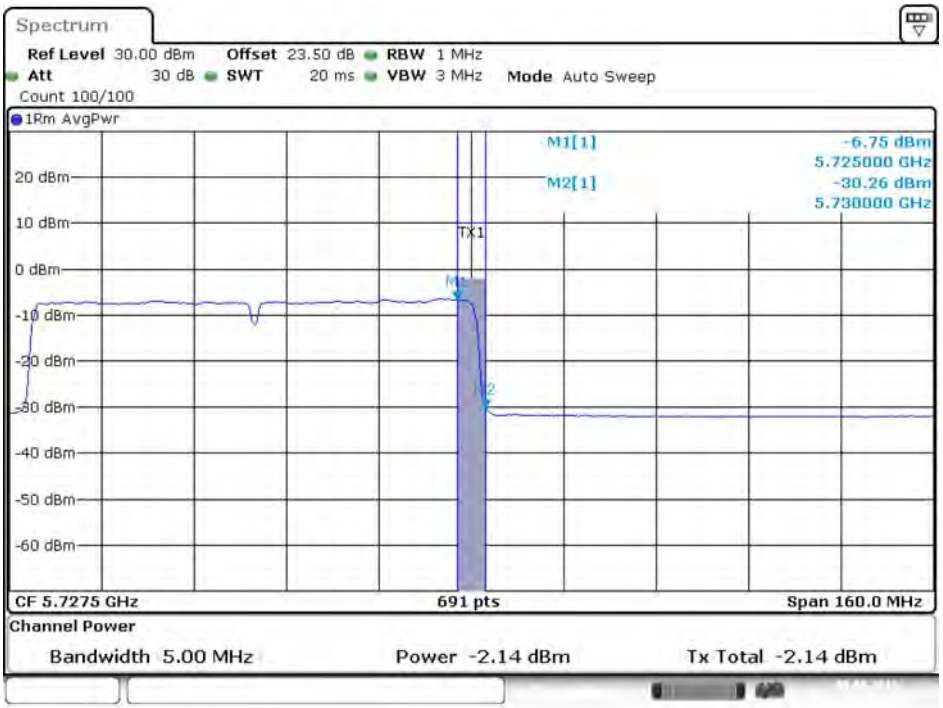
Date: 9.AUG.2016 02:42:22

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 / 5690 MHz (UNII 3)



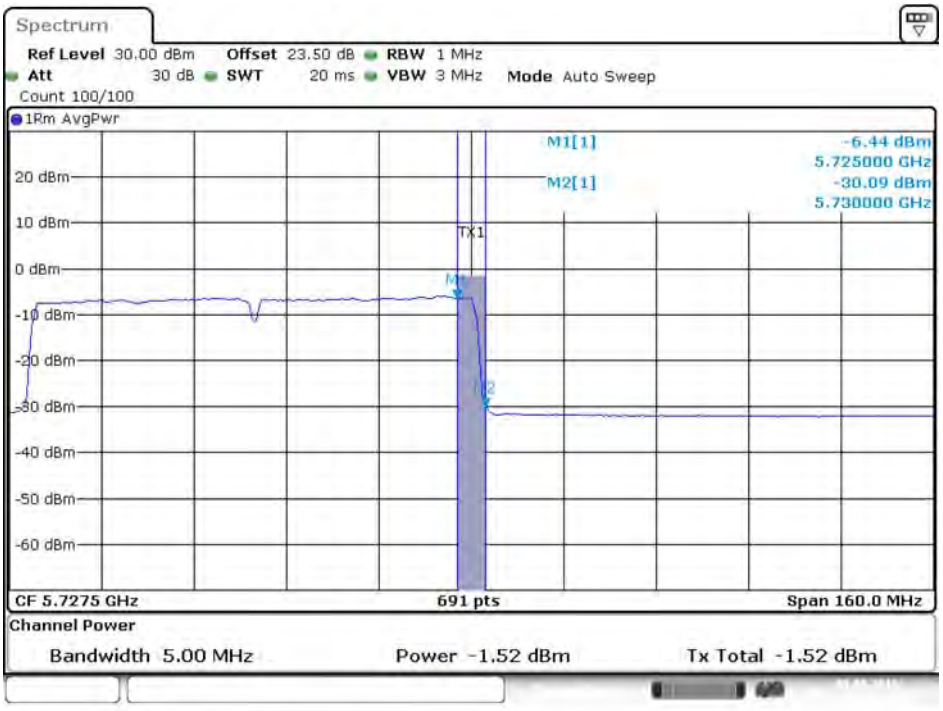
Date: 9.AUG.2016 02:36:08

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 2 / 5690 MHz (UNII 3)



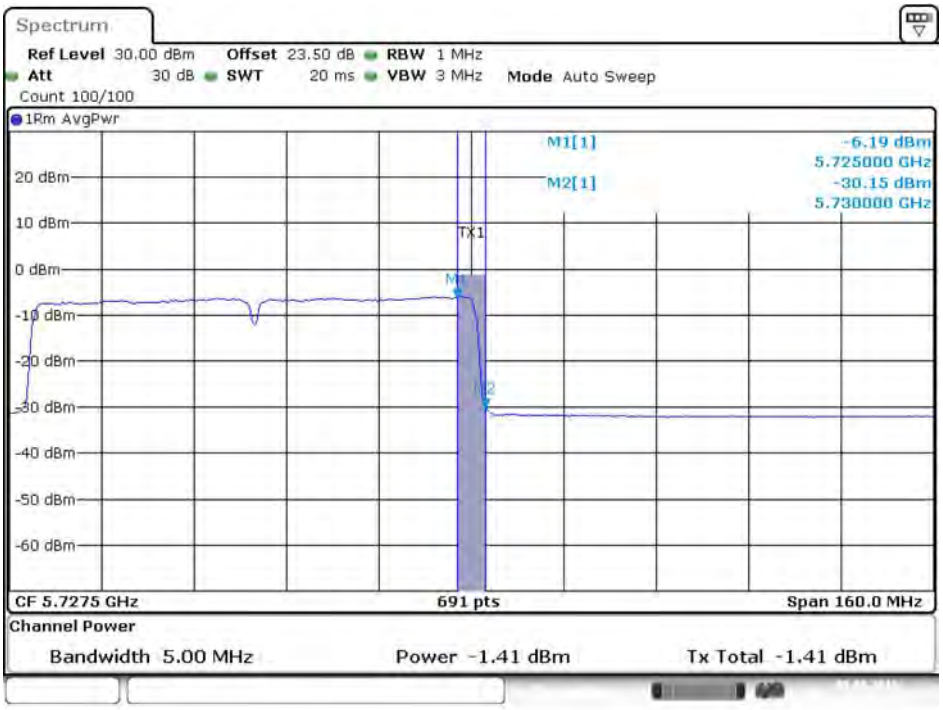
Date: 9.AUG.2016 02:38:23

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 3 / 5690 MHz (UNII 3)



Date: 9.AUG.2016 02:40:11

Conducted Output Power Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 4 / 5690 MHz (UNII 3)



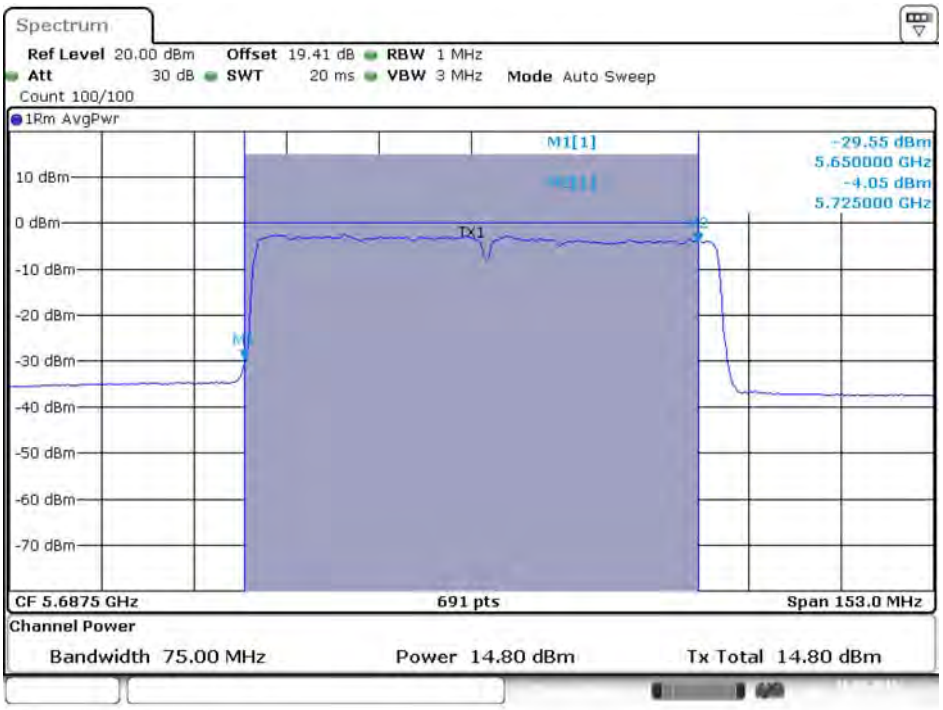
Date: 9.AUG.2016 02:42:26

802.11ac MCS0/Nss2 VHT80+80

Straddle Channel

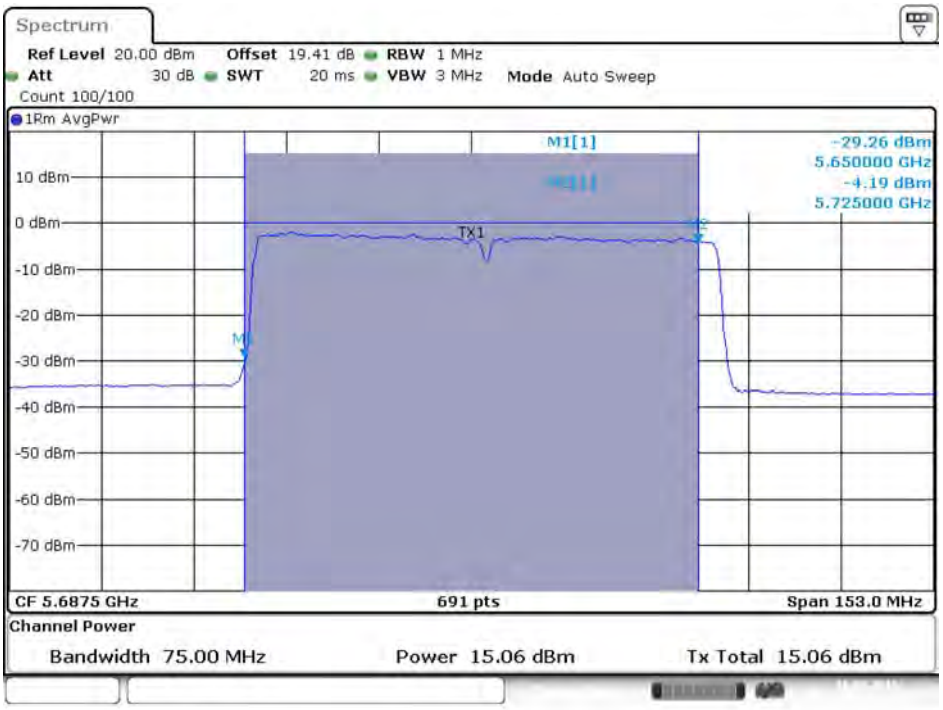
Type 3

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 2C)



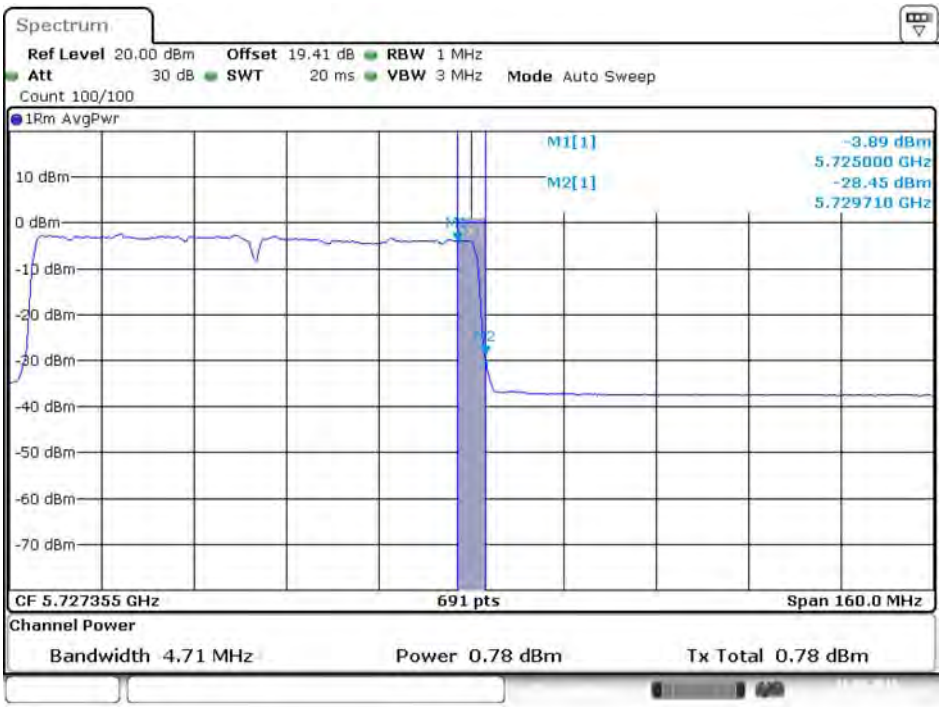
Date: 16.AUG.2016 19:52:24

Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 2C)



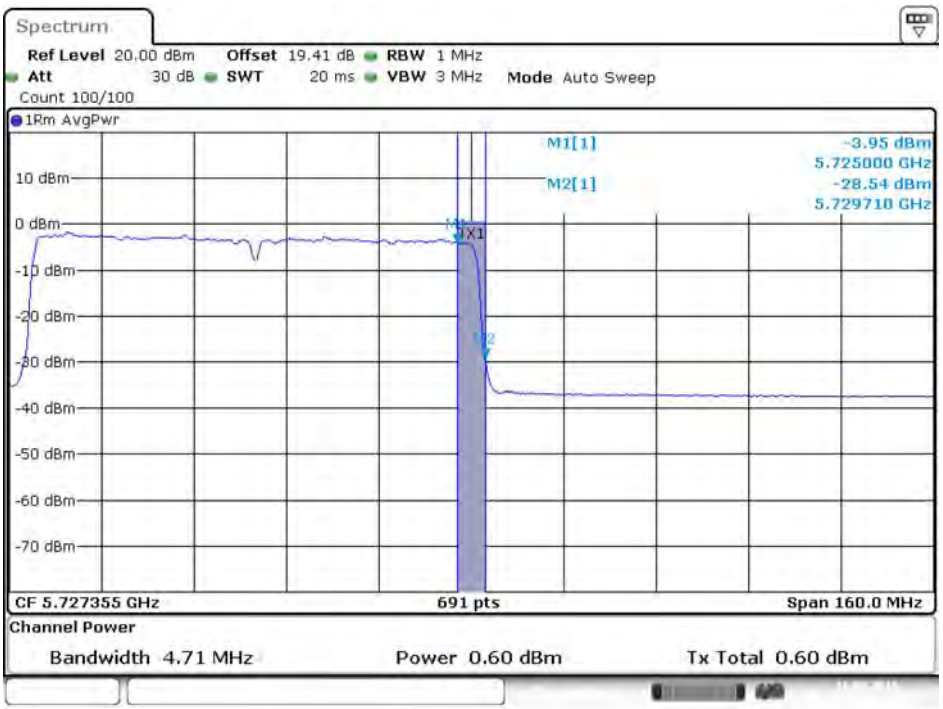
Date: 16.AUG.2016 19:52:32

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 19:52:28

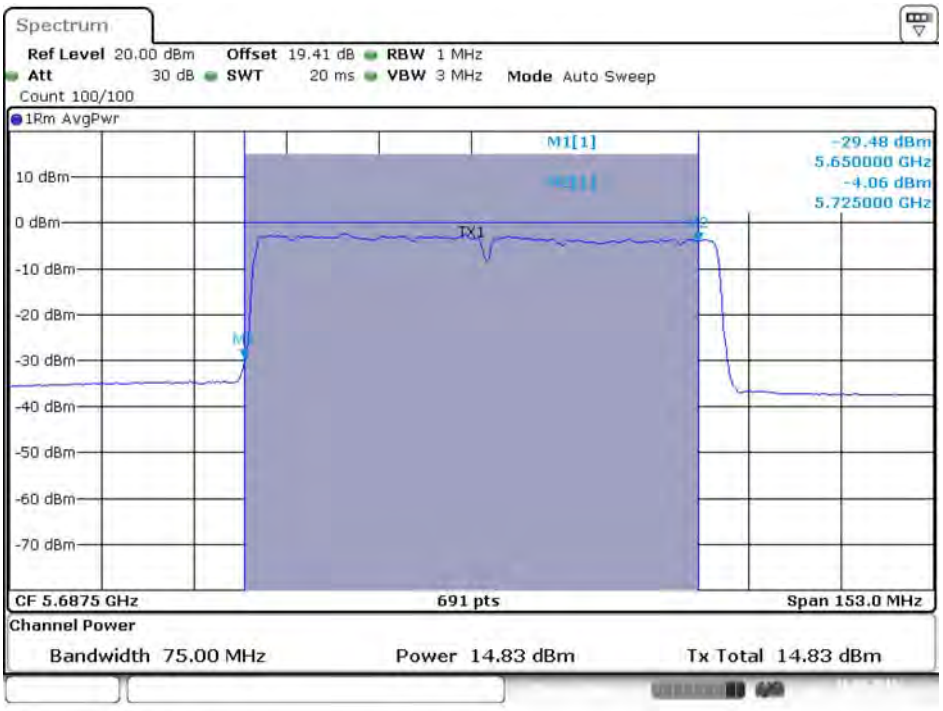
Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 19:52:35

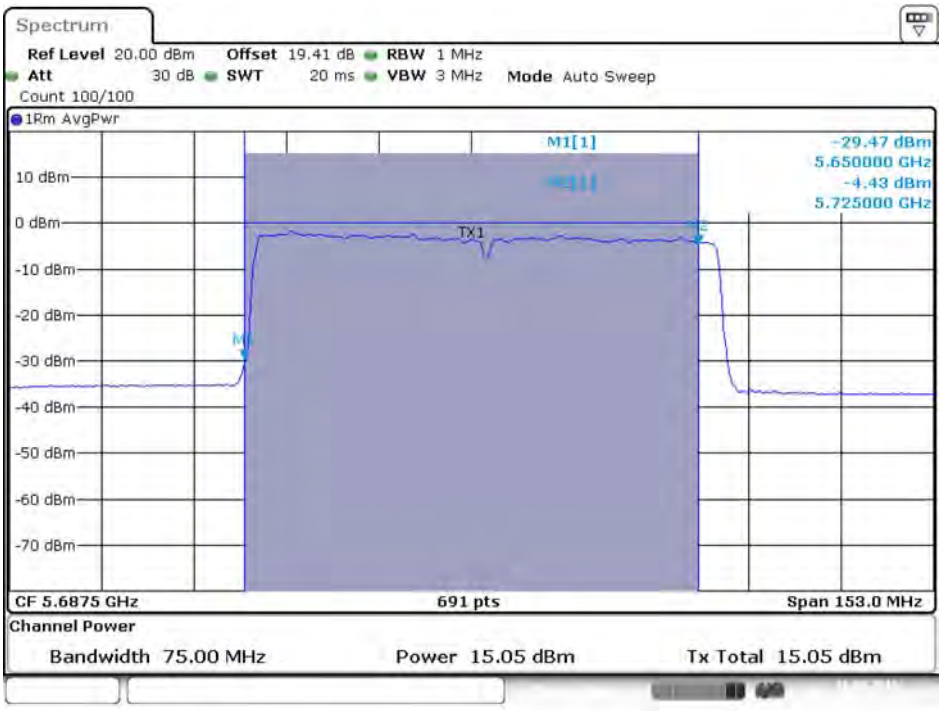
Type 7

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 2C)



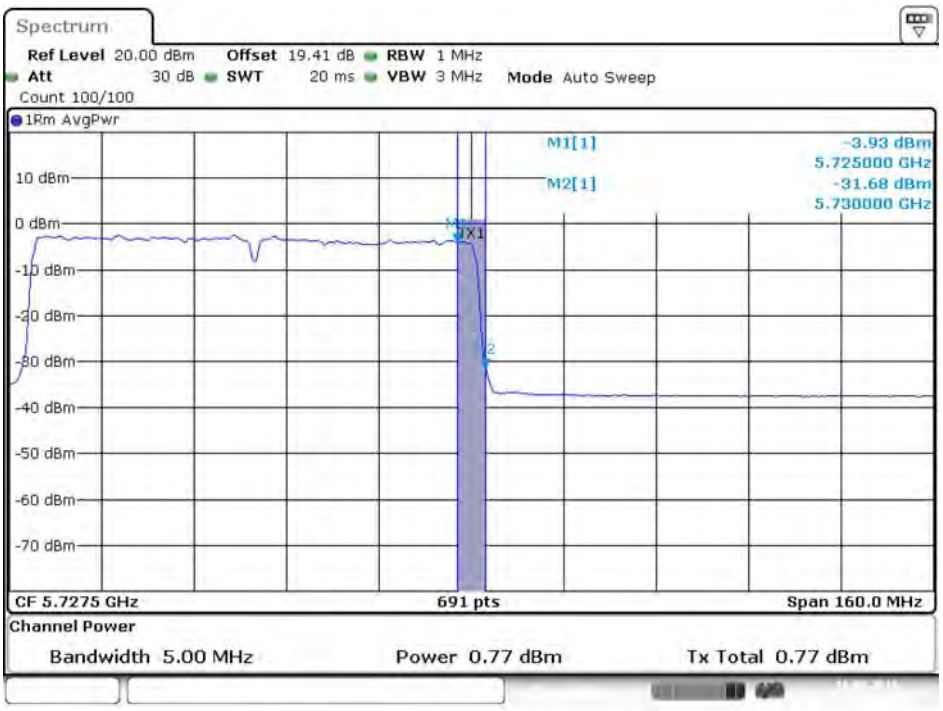
Date: 16.AUG.2016 19:57:34

Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 2C)



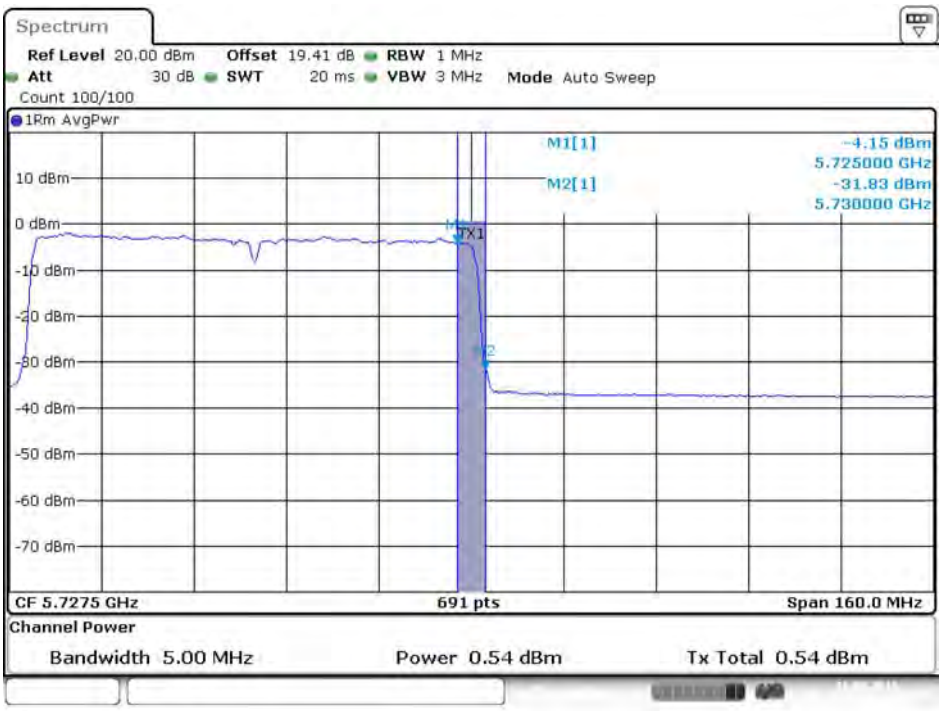
Date: 16.AUG.2016 19:57:41

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 19:57:37

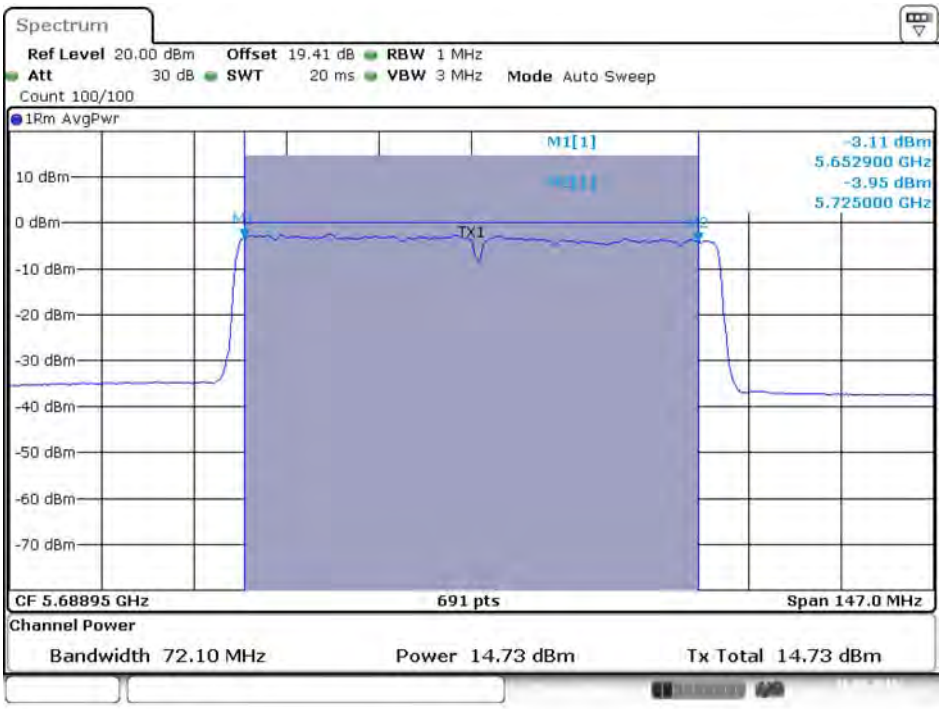
Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 19:57:45

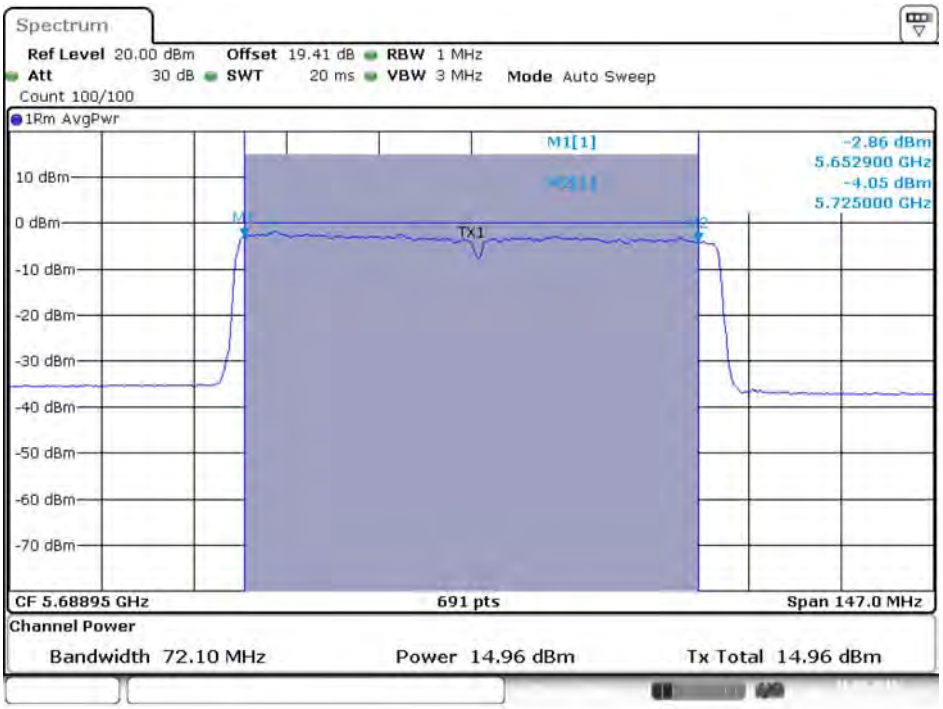
Type 9

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 2C)



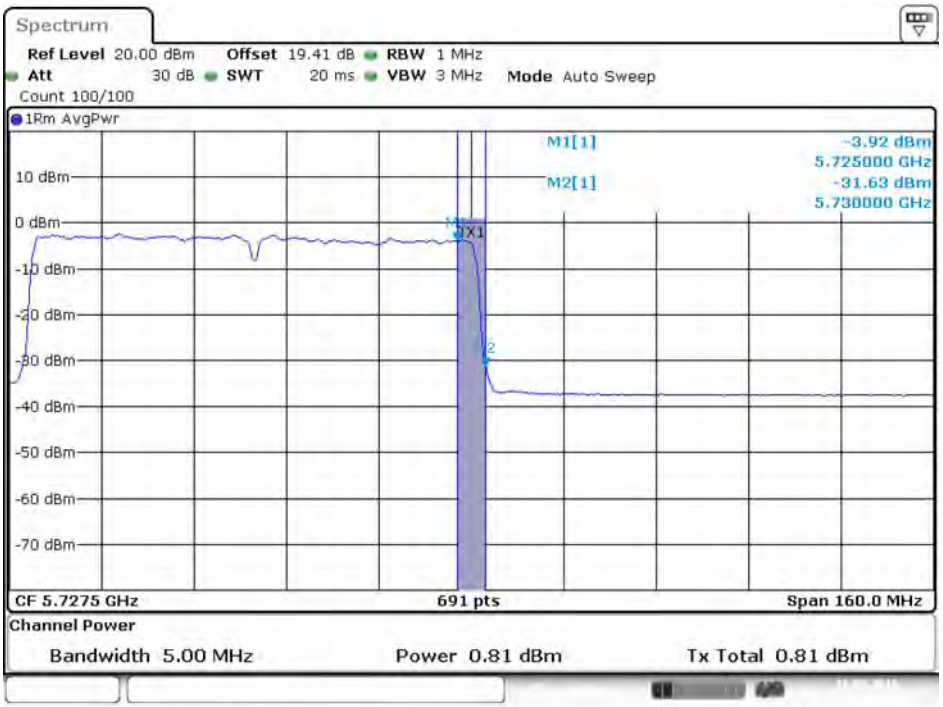
Date: 16.AUG.2016 20:01:30

Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 2C)



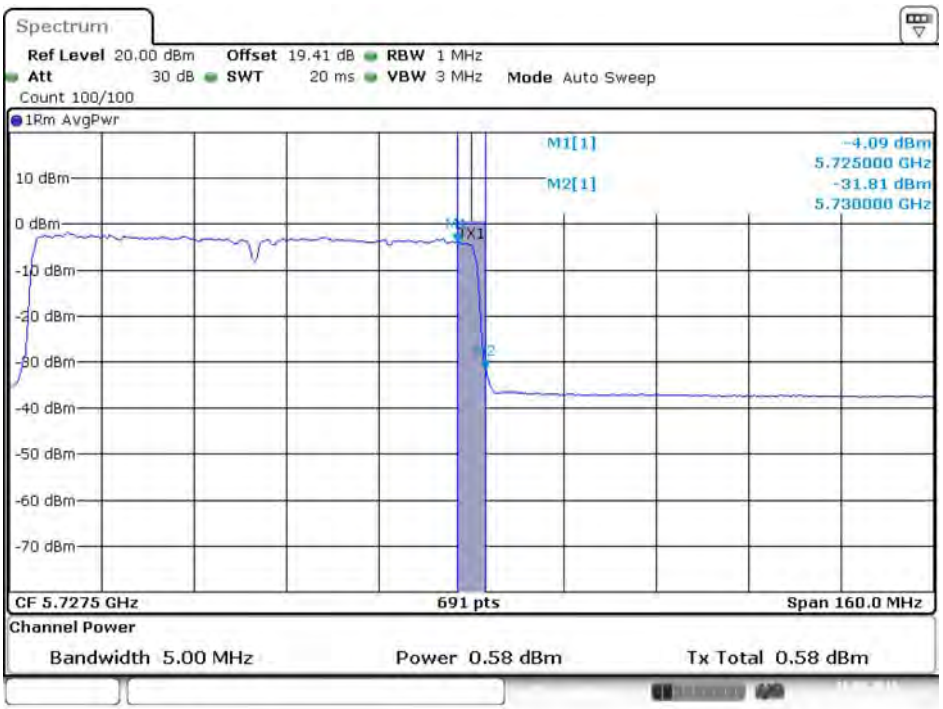
Date: 16.AUG.2016 20:01:37

Conducted Output Power Plot on Chain 3 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 20:01:33

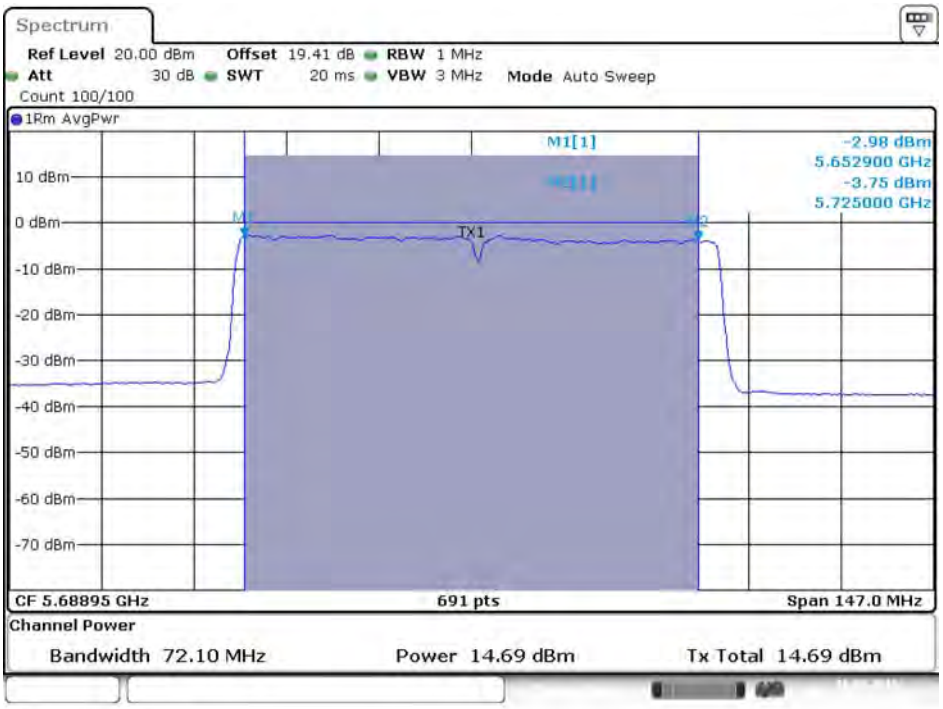
Conducted Output Power Plot on Chain 4 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 20:01:40

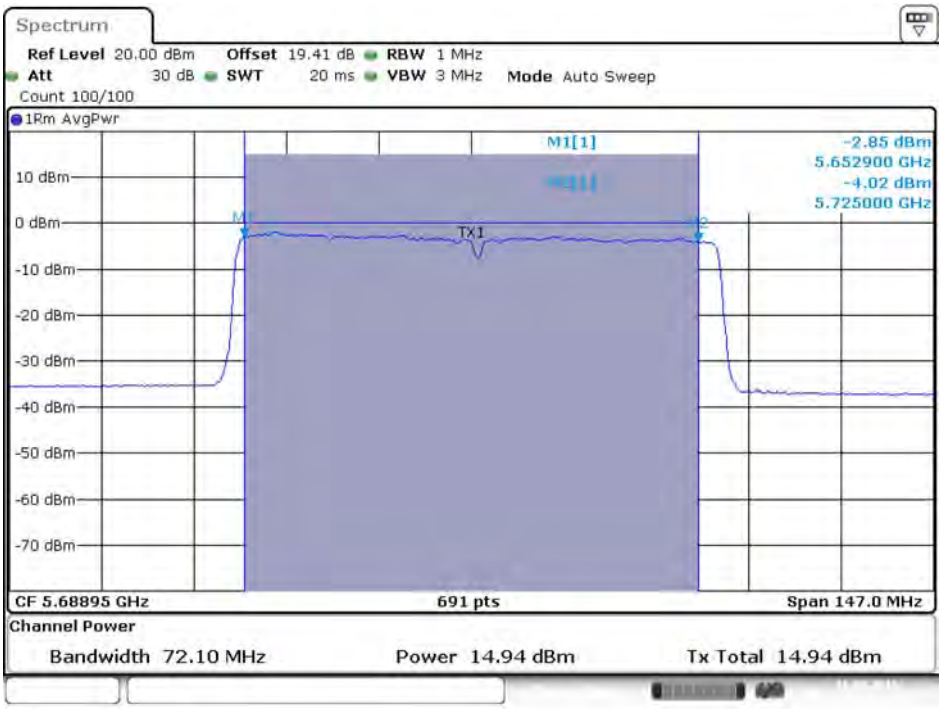
Type 12

Conducted Output Power Plot on Chain 1 / 5690 MHz (UNII 2C)



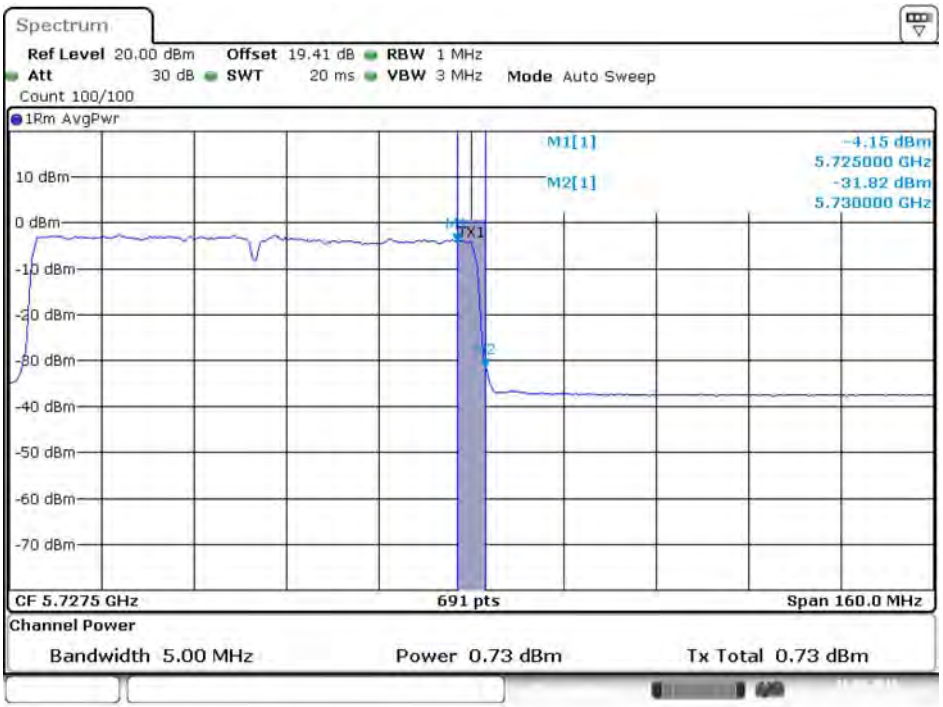
Date: 16.AUG.2016 20:11:40

Conducted Output Power Plot on Chain 2 / 5690 MHz (UNII 2C)



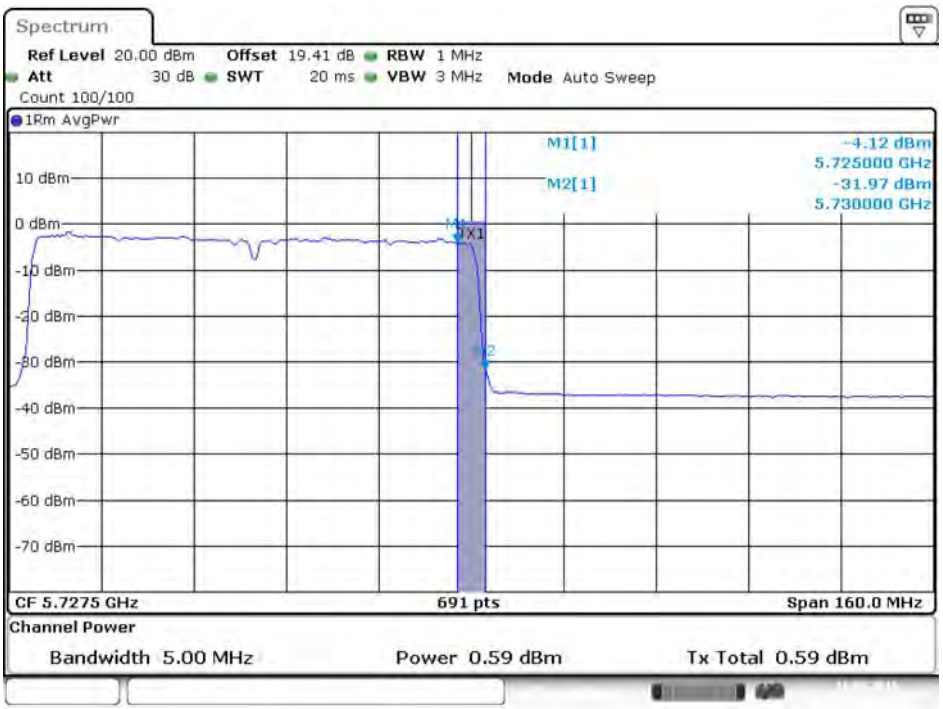
Date: 16.AUG.2016 20:11:47

Conducted Output Power Plot on Chain 1 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 20:11:43

Conducted Output Power Plot on Chain 2 / 5690 MHz (UNII 3)



Date: 16.AUG.2016 20:11:50

4.5. Power Spectral Density Measurement

4.5.1. Limit

The following table is power spectral density limits and decrease power density limit rule refer to section 4.4.1.

Frequency Band			Limit
☒	5.15~5.25 GHz		
	Operating Mode		
	☒	Outdoor access point	17 dBm/MHz
	☒	Indoor access point	17 dBm/MHz
	☐	Fixed point-to-point access points	17 dBm/MHz
	☒	Mobile and portable client devices	11 dBm/MHz
☒	5.25-5.35 GHz		11 dBm/MHz
☒	5.470-5.725 GHz		11 dBm/MHz
☒	5.725~5.85 GHz		30 dBm/500kHz

4.5.2. Measuring Instruments and Setting

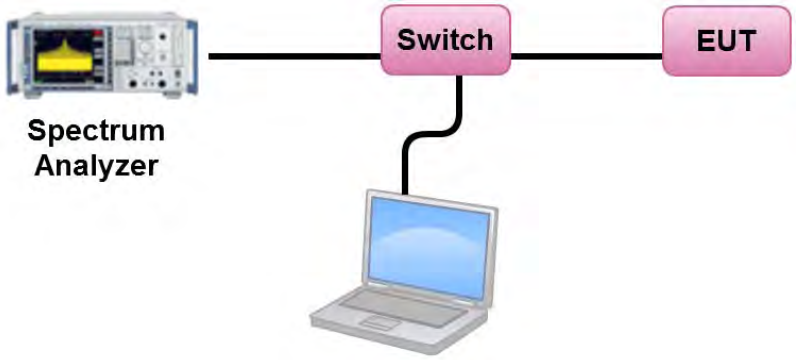
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1000 kHz
VBW	3000 kHz
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	

4.5.3. Test Procedures

1. The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.
2. Test was performed in accordance with KDB789033 D02 v01r03 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD).
3. Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements and sum the spectra across the outputs.
4. For 5.725~5.85 GHz, the measured result of PSD level must add 10log(500kHz/RBW) and the final result should ≤ 30 dBm.

4.5.4. Test Setup Layout



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of Power Spectral Density

Temperature	22°C	Humidity	54%
Test Engineer	Gary Chu		

For non-beamforming mode

For indoor use master B1 and indoor, outdoor use B2~B4

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	10.92	10.98	Complies
40	5200 MHz	10.92	10.98	Complies
48	5240 MHz	10.96	10.98	Complies
52	5260 MHz	4.92	4.98	Complies
60	5300 MHz	4.91	4.98	Complies
64	5320 MHz	4.88	4.98	Complies
100	5500 MHz	4.85	4.98	Complies
116	5580 MHz	4.93	4.98	Complies
140	5700 MHz	4.97	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B2 B3 limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	15.87	-3.01	12.86	23.98	Complies
157	5785 MHz	15.61	-3.01	12.60	23.98	Complies
165	5825 MHz	15.74	-3.01	12.73	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B4 limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	10.87	10.98	Complies
40	5200 MHz	10.89	10.98	Complies
48	5240 MHz	10.80	10.98	Complies
52	5260 MHz	4.76	4.98	Complies
60	5300 MHz	4.82	4.98	Complies
64	5320 MHz	4.81	4.98	Complies
100	5500 MHz	4.88	4.98	Complies
116	5580 MHz	4.85	4.98	Complies
140	5700 MHz	4.97	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B2 B3 limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	15.10	-3.01	12.09	23.98	Complies
157	5785 MHz	15.43	-3.01	12.42	23.98	Complies
165	5825 MHz	15.50	-3.01	12.49	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B4 limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	6.88	10.98	Complies
46	5230 MHz	9.94	10.98	Complies
54	5270 MHz	4.87	4.98	Complies
62	5310 MHz	4.93	4.98	Complies
102	5510 MHz	3.41	4.98	Complies
110	5550 MHz	4.88	4.98	Complies
134	5670 MHz	4.90	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B2 B3 limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	11.02	-3.01	8.01	23.98	Complies
159	5795 MHz	12.63	-3.01	9.62	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B4 limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-1.39	10.98	Complies
58	5290 MHz	1.41	4.98	Complies
106	5530 MHz	-3.41	4.98	Complies
122	5610 MHz	3.39	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B2 B3 limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	4.60	-3.01	1.59	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B4 limit =30-(12.02-6)=23.98dBm/500kHz.

Straddle Channel

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	4.68	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	4.47	-3.01	1.46	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	4.76	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	4.58	-3.01	1.57	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	4.69	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	4.38	-3.01	1.37	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	4.61	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	4.60	-3.01	1.59	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =30-(12.02-6)=23.98dBm/500kHz.

For indoor use slave without radar detection B1

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	4.97	4.98	Complies
40	5200 MHz	4.86	4.98	Complies
48	5240 MHz	4.90	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	4.69	4.98	Complies
40	5200 MHz	4.64	4.98	Complies
48	5240 MHz	4.77	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	4.91	4.98	Complies
46	5230 MHz	4.83	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-1.39	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

For outdoor use master B1

Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	1.69	10.98	Complies
40	5200 MHz	1.76	10.98	Complies
48	5240 MHz	1.59	10.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	1.53	10.98	Complies
40	5200 MHz	1.46	10.98	Complies
48	5240 MHz	1.51	10.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-1.50	10.98	Complies
46	5230 MHz	-1.47	10.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-4.34	10.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

802.11ac MCS0/Nss2 VHT80+80

For indoor use master

Type	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Max. Limit (dBm/MHz)	Result
1	5210 MHz	-1.05	-			13.99	Complies
	5530 MHz	-0.73				7.99	Complies
2	5210 MHz	-0.82				13.99	Complies
	5610 MHz	-1.06				7.99	Complies
3	5210 MHz	-0.83				13.99	Complies
	5690 MHz (UNII 2C)	-1.19				7.99	Complies
	5690 MHz (UNII 3)	-2.75	-3.01	-5.76	26.99	-	Complies
4	5210 MHz	-0.79	-			13.99	Complies
	5775 MHz	-0.71	-3.01	-3.72	26.99	-	Complies
5	5290 MHz	-0.54	-			7.99	Complies
	5530 MHz	-0.14				7.99	Complies
6	5290 MHz	0.71				7.99	Complies
	5610 MHz	0.70				7.99	Complies
7	5290 MHz	0.37				7.99	Complies
	5690 MHz (UNII 2C)	-0.15				7.99	Complies
	5690 MHz (UNII 3)	-1.67	-3.01	-4.68	26.99	-	Complies
8	5290 MHz	0.44	-			7.99	Complies
	5775 MHz	0.67	-3.01	-2.34	26.99	-	Complies
9	5530 MHz	-2.33	-			7.99	Complies
	5690 MHz (UNII 2C)	-2.43				7.99	Complies
	5690 MHz (UNII 3)	-2.85	-3.01	-5.86	26.99	-	Complies
10	5530 MHz	-2.46	-			7.99	Complies
	5775 MHz	-1.84	-3.01	-4.85	26.99	-	Complies
11	5610 MHz	-1.03	-			7.99	Complies
	5775 MHz	-0.24	-3.01	-3.25	26.99	-	Complies

12	5690 MHz (UNII 2C)	-1.08	-			7.99	Complies
	5690 MHz (UNII 3)	-0.96	-3.01	-3.97	26.99	-	Complies
	5775 MHz	0.30	-3.01	-2.71	26.99	-	Complies
13	5210 MHz	-2.34	-			13.99	Complies
	5290 MHz	-2.26				7.99	Complies
14	5530 MHz	-2.06				7.99	Complies
	5610 MHz	-1.41				7.99	Complies
15	5610 MHz	1.30				7.99	Complies
	5690 MHz (UNII 2C)	1.60				7.99	Complies
	5690 MHz (UNII 3)	1.40	-3.01	-1.61	26.99	-	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=17-(9.01-6)=13.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=11-(9.01-6)=7.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit =30-(9.01-6)=26.99dBm/500kHz.

For indoor use slave without radar detection B1

Type	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Max. Limit (dBm/MHz)	Result
1	5210 MHz	-1.05	-			7.99	Complies
	5530 MHz	-0.73				7.99	Complies
2	5210 MHz	-0.82				7.99	Complies
	5610 MHz	-1.06				7.99	Complies
3	5210 MHz	-0.83				7.99	Complies
	5690 MHz (UNII 2C)	-1.19				7.99	Complies
	5690 MHz (UNII 3)	-2.75	-3.01	-5.76	26.99	-	Complies
4	5210 MHz	-0.79	-			7.99	Complies
	5775 MHz	-0.71	-3.01	-3.72	26.99	-	Complies
13	5210 MHz	-2.34	-			7.99	Complies
	5290 MHz	-2.26				-	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=11-(9.01-6)=7.99dBm/MHz.

For outdoor use master B1

Type	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Max. Limit (dBm/MHz)	Result
1	5210 MHz	-4.47	-			13.99	Complies
	5530 MHz	-4.66				7.99	Complies
2	5210 MHz	-4.51				13.99	Complies
	5610 MHz	-4.89				7.99	Complies
3	5210 MHz	-4.50				13.99	Complies
	5690 MHz (UNII 2C)	-5.41				7.99	Complies
	5690 MHz (UNII 3)	-6.95	-3.01	-9.96	26.99	-	Complies
4	5210 MHz	-4.51	-			13.99	Complies
	5775 MHz	-4.76	-3.01	-7.77	26.99	-	Complies
13	5210 MHz	-4.43	-			13.99	Complies
	5290 MHz	-4.71				7.99	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=17-(9.01-6)=13.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=11-(9.01-6)=7.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit =30-(9.01-6)=26.99dBm/500kHz.

For beamforming mode

For indoor use master B1 and indoor, outdoor use B2~B4

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	10.36	10.98	Complies
40	5200 MHz	10.41	10.98	Complies
48	5240 MHz	10.31	10.98	Complies
52	5260 MHz	4.37	4.98	Complies
60	5300 MHz	4.42	4.98	Complies
64	5320 MHz	4.25	4.98	Complies
100	5500 MHz	3.91	4.98	Complies
116	5580 MHz	4.00	4.98	Complies
140	5700 MHz	3.94	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B2 B3 limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
149	5745 MHz	9.92	-3.01	6.91	23.98	Complies
157	5785 MHz	10.02	-3.01	7.01	23.98	Complies
165	5825 MHz	10.08	-3.01	7.07	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B4 limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	7.46	10.98	Complies
46	5230 MHz	7.54	10.98	Complies
54	5270 MHz	1.43	4.98	Complies
62	5310 MHz	1.57	4.98	Complies
102	5510 MHz	0.92	4.98	Complies
110	5550 MHz	0.89	4.98	Complies
134	5670 MHz	1.05	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B2 B3 limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
151	5755 MHz	7.21	-3.01	4.20	23.98	Complies
159	5795 MHz	7.06	-3.01	4.05	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so B4 limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	5.25	10.98	Complies
58	5290 MHz	-1.73	4.98	Complies
106	5530 MHz	-1.72	4.98	Complies
122	5610 MHz	-1.91	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B1 limit =17-(12.02-6)=10.98dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B2 B3 limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
155	5775 MHz	4.27	-3.01	1.26	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so B4 limit =30-(12.02-6)=23.98dBm/500kHz.

Straddle Channel

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
144	5720 MHz (UNII 2C)	4.64	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
144	5720 MHz (UNII 3)	4.39	-3.01	1.38	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =12.02dBi, so limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
142	5710 MHz (UNII 2C)	1.81	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
142	5710 MHz (UNII 3)	1.65	-3.01	-1.36	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =30-(12.02-6)=23.98dBm/500kHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
138	5690 MHz (UNII 2C)	-1.60	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Channel	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
138	5690 MHz (UNII 3)	-1.66	-3.01	-4.67	23.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =30-(12.02-6)=23.98dBm/500kHz.

For indoor use slave without radar detection B1

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	4.13	4.98	Complies
40	5200 MHz	4.10	4.98	Complies
48	5240 MHz	4.20	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	1.42	4.98	Complies
46	5230 MHz	1.34	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-1.79	4.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =11-(12.02-6)=4.98dBm/MHz.

For outdoor use master B1

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180 MHz	-4.52	10.98	Complies
40	5200 MHz	-4.55	10.98	Complies
48	5240 MHz	-4.52	10.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =17-(12.02-6)=10.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190 MHz	-7.94	10.98	Complies
46	5230 MHz	-7.74	10.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =17-(12.02-6)=10.98dBm/MHz.

Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210 MHz	-10.77	10.98	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =12.02dBi, so limit =17-(12.02-6)=10.98dBm/MHz.

802.11ac MCS0/Nss2 VHT80+80

For indoor use master

Type	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Max. Limit (dBm/MHz)	Result
1	5210 MHz	-3.41				13.99	Complies
	5530 MHz	-3.76				7.99	Complies
2	5210 MHz	-0.59				13.99	Complies
	5610 MHz	-0.68		-		7.99	Complies
3	5210 MHz	-0.53				13.99	Complies
	5690 MHz (UNII 2C)	-0.89				7.99	Complies
	5690 MHz (UNII 3)	-2.07	-3.01	-5.08	26.99	-	Complies
4	5210 MHz	-0.68		-		13.99	Complies
	5775 MHz	-1.05	-3.01	-4.06	26.99	-	Complies
5	5290 MHz	-3.00				7.99	Complies
	5530 MHz	-2.78				7.99	Complies
6	5290 MHz	-0.68				7.99	Complies
	5610 MHz	-0.81		-		7.99	Complies
7	5290 MHz	-0.66				7.99	Complies
	5690 MHz (UNII 2C)	-0.74				7.99	Complies
	5690 MHz (UNII 3)	-2.17	-3.01	-5.18	26.99	-	Complies
8	5290 MHz	-0.70		-		7.99	Complies
	5775 MHz	-1.05	-3.01	-4.06	26.99	-	Complies
9	5530 MHz	-1.68				7.99	Complies
	5690 MHz (UNII 2C)	-0.91		-		7.99	Complies
	5690 MHz (UNII 3)	-2.34	-3.01	-5.35	26.99	-	Complies
10	5530 MHz	-1.86		-		7.99	Complies
	5775 MHz	-1.02	-3.01	-4.03	26.99	-	Complies
11	5610 MHz	-1.76		-		7.99	Complies
	5775 MHz	-1.01	-3.01	-4.02	26.99	-	Complies

12	5690 MHz (UNII 2C)	-0.81	-			7.99	Complies
	5690 MHz (UNII 3)	-2.28	-3.01	-5.29	26.99	-	Complies
	5775 MHz	-0.99	-3.01	-4.00	26.99	-	Complies
13	5210 MHz	-0.89	-			13.99	Complies
	5290 MHz	-0.72				7.99	Complies
14	5530 MHz	-2.01				7.99	Complies
	5610 MHz	-0.84				7.99	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=17-(9.01-6)=13.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=11-(9.01-6)=7.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit =30-(9.01-6)=26.99dBm/500kHz.

For indoor use slave without radar detection B1

Type	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Max. Limit (dBm/MHz)	Result
1	5210 MHz	-3.41	-			7.99	Complies
	5530 MHz	-3.76				7.99	Complies
2	5210 MHz	-0.59				7.99	Complies
	5610 MHz	-0.68				7.99	Complies
3	5210 MHz	-0.53				7.99	Complies
	5690 MHz (UNII 2C)	-0.89				7.99	Complies
	5690 MHz (UNII 3)	-2.07	-3.01	-5.08	26.99	-	Complies
4	5210 MHz	-0.68	-			7.99	Complies
	5775 MHz	-1.05	-3.01	-4.06	26.99	-	Complies
13	5210 MHz	-0.89	-			7.99	Complies
	5290 MHz	-0.72				-	Complies

Note: $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ =9.01dBi, so limit=11-(9.01-6)=7.99dBm/MHz.

For outdoor use master B1

Type	Frequency	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Max. Limit (dBm/MHz)	Result
1	5210 MHz	-7.33	-			13.99	Complies
	5530 MHz	-7.77				7.99	Complies
2	5210 MHz	-7.50				13.99	Complies
	5610 MHz	-8.08				7.99	Complies
3	5210 MHz	-7.47				13.99	Complies
	5690 MHz (UNII 2C)	-6.97				7.99	Complies
	5690 MHz (UNII 3)	-8.18	-3.01	-11.19	26.99	-	Complies
4	5210 MHz	-7.42	-			13.99	Complies
	5775 MHz	-7.77	-3.01	-10.78	26.99	-	Complies
13	5210 MHz	-7.59	-			13.99	Complies
	5290 MHz	-8.01				7.99	Complies

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =9.01dBi, so limit=17-(9.01-6)=13.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =9.01dBi, so limit=11-(9.01-6)=7.99dBm/MHz.

Note: $DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ =9.01dBi, so limit =30-(9.01-6)=26.99dBm/500kHz.

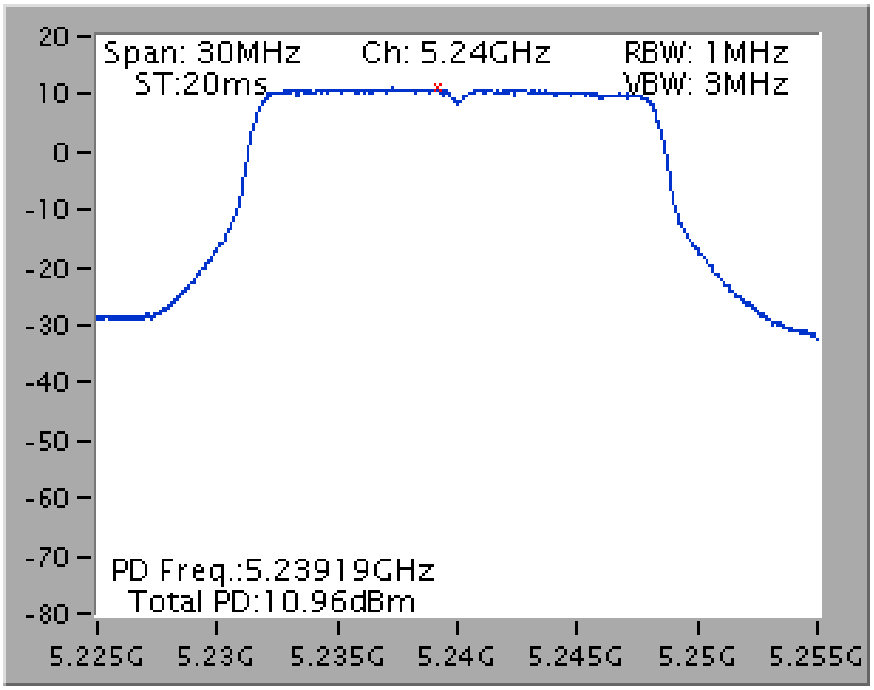
Note: All the test values were listed in the report.

For plots, only the channel with worse result was shown.

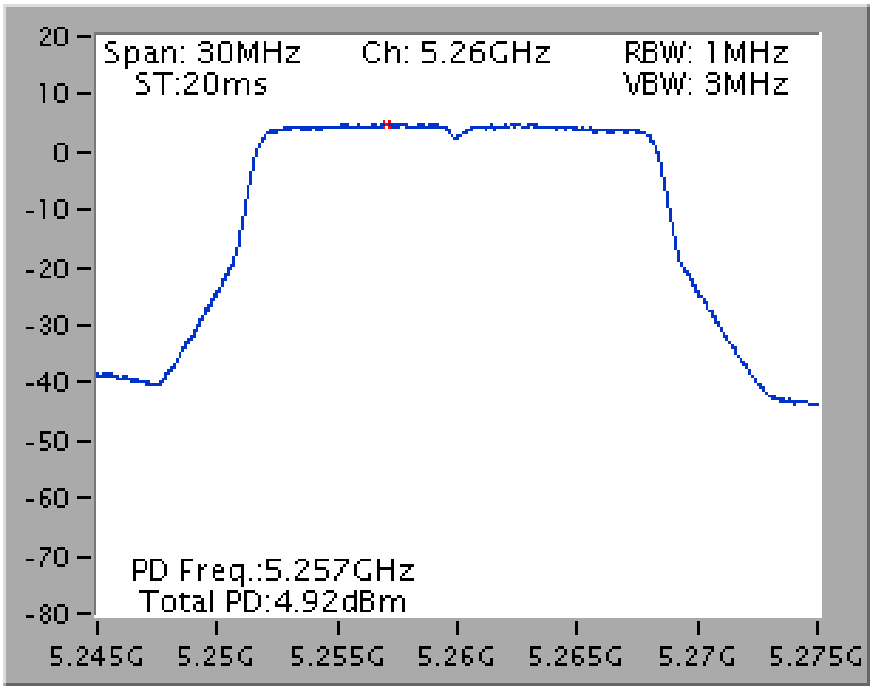
For non-beamforming mode

For indoor use master B1 and indoor, outdoor use B2~B4

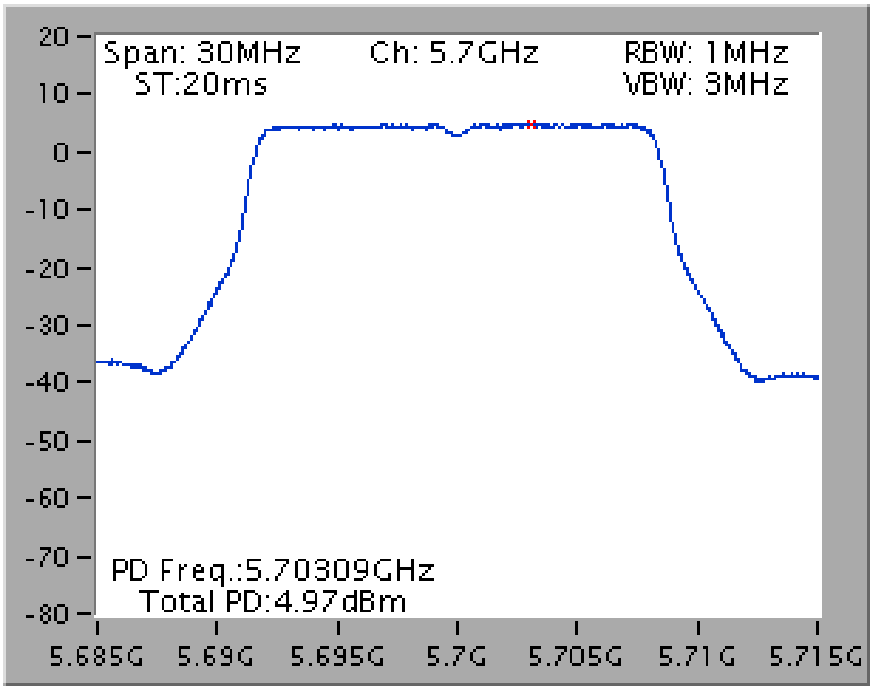
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



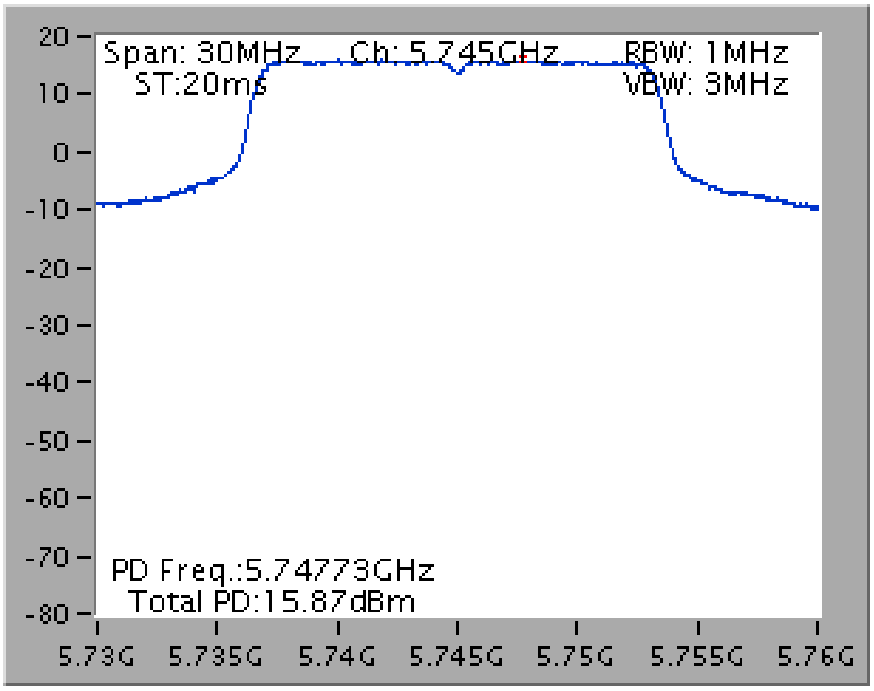
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5260 MHz



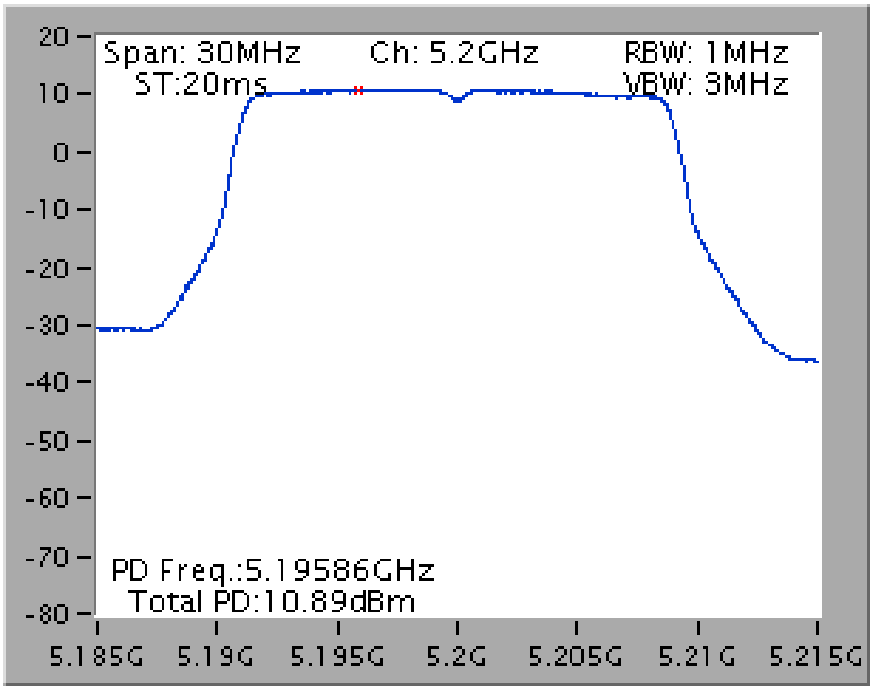
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5700 MHz



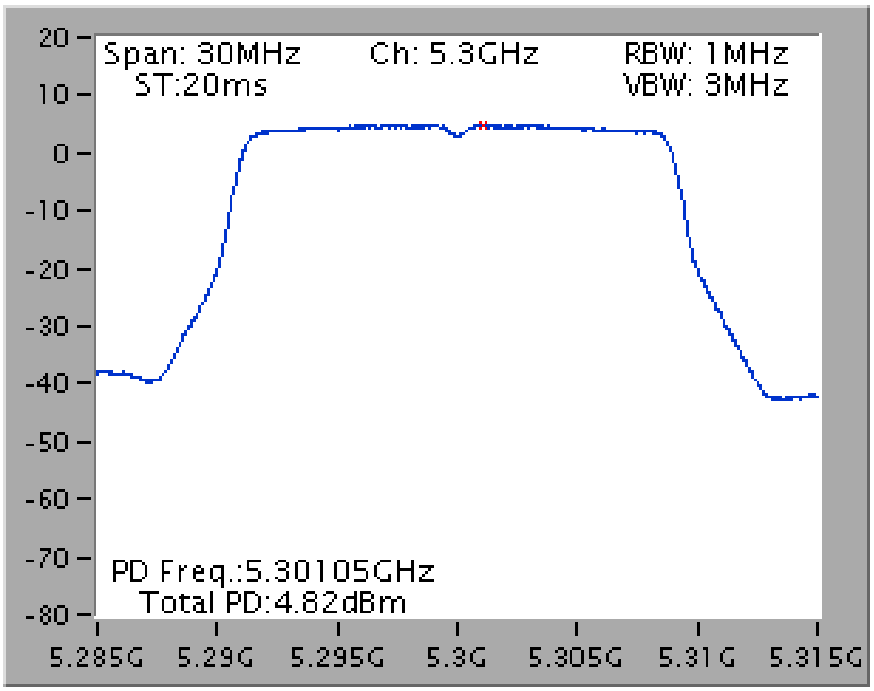
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5745 MHz



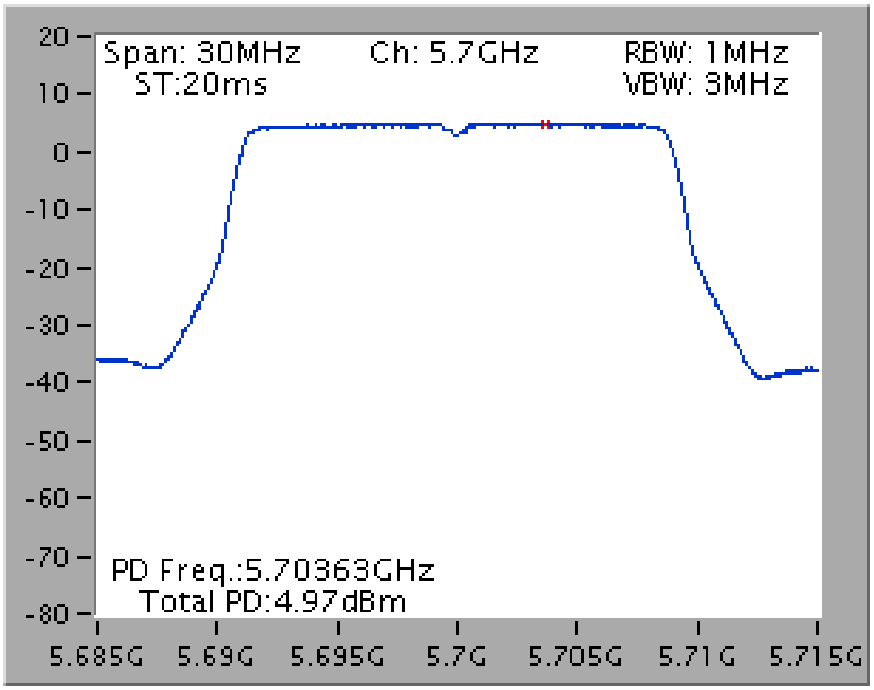
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



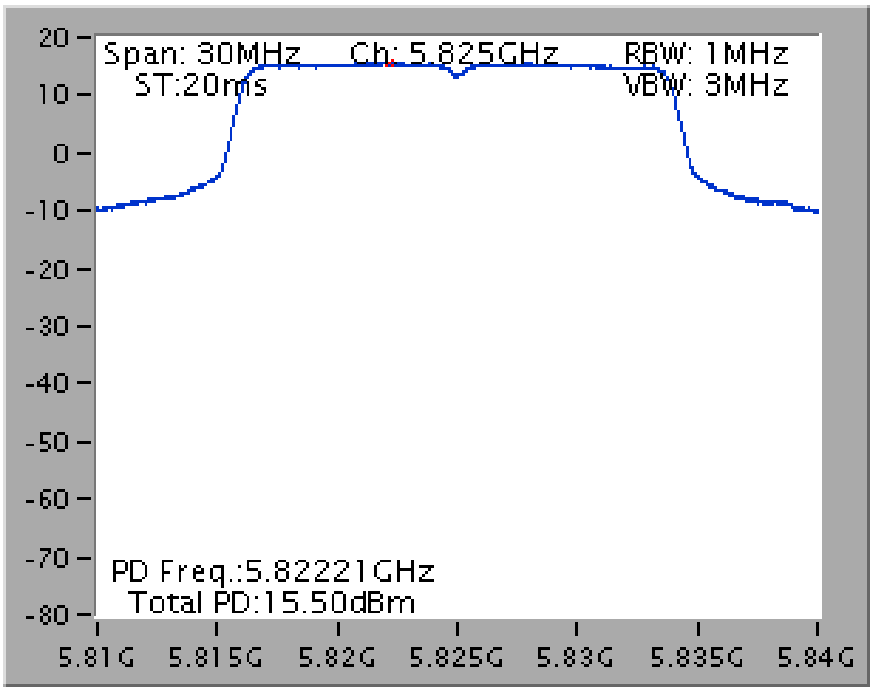
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5300 MHz



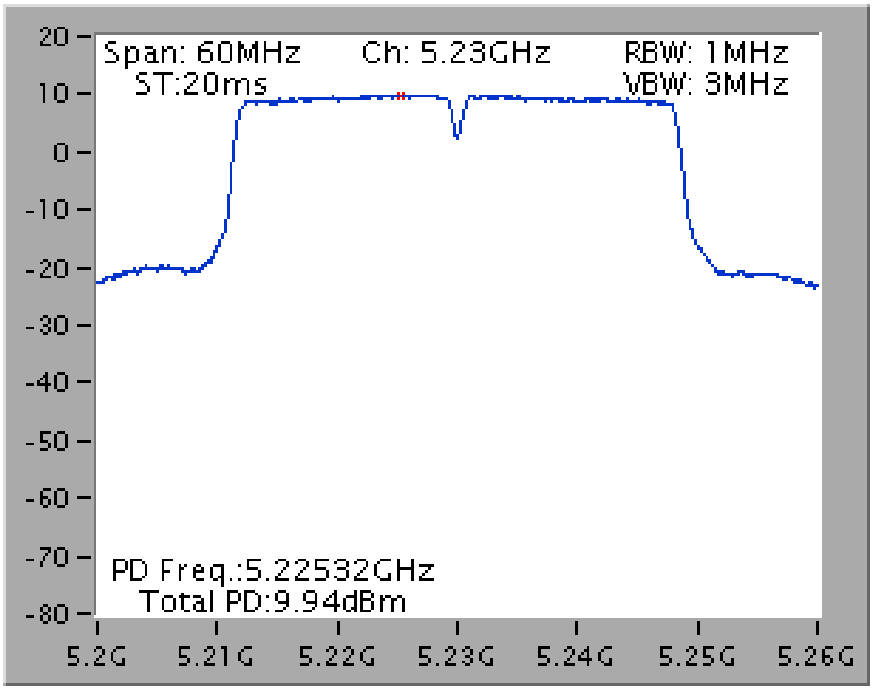
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5700 MHz



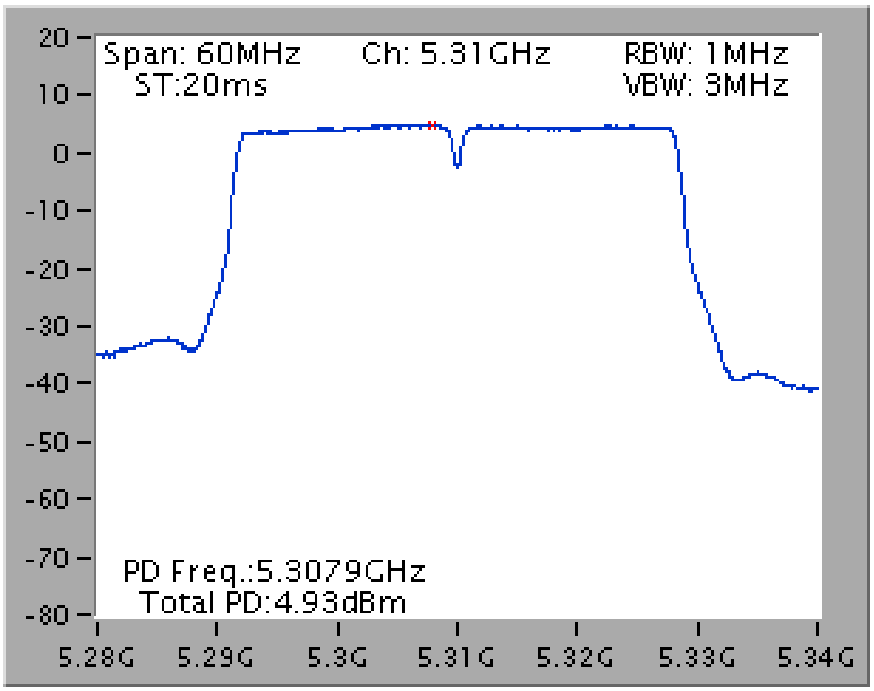
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



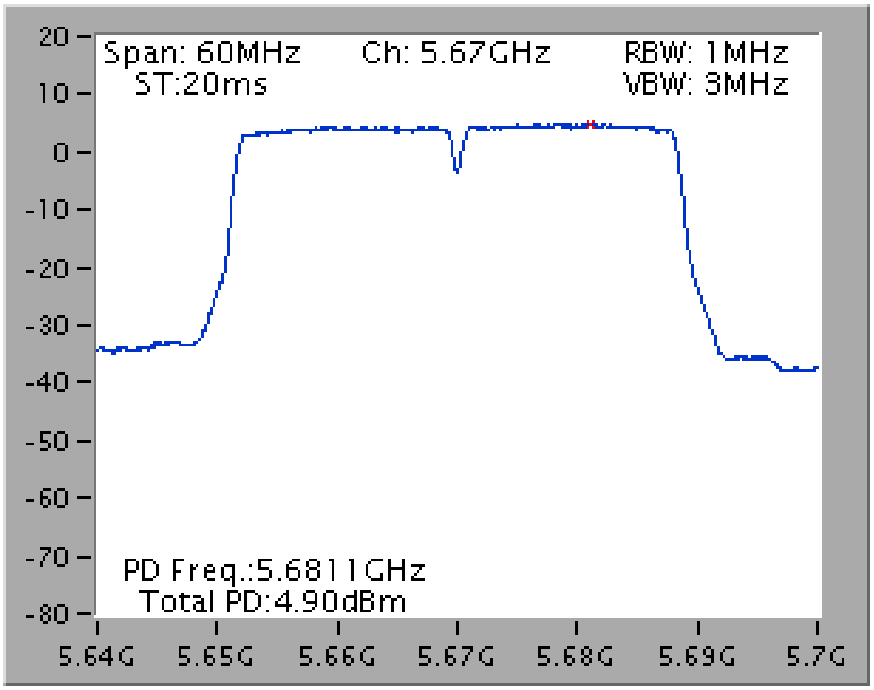
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



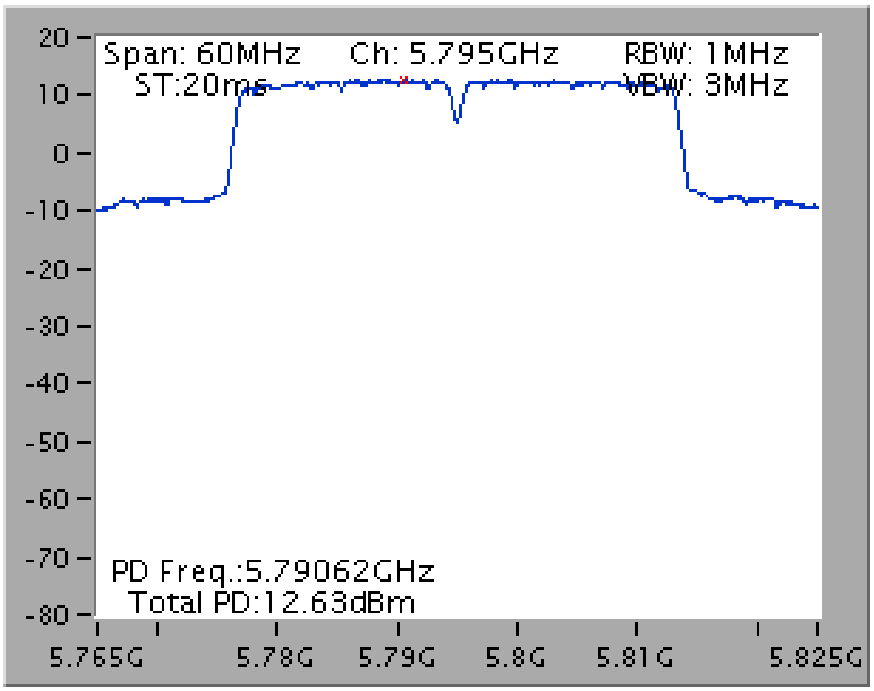
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5310 MHz



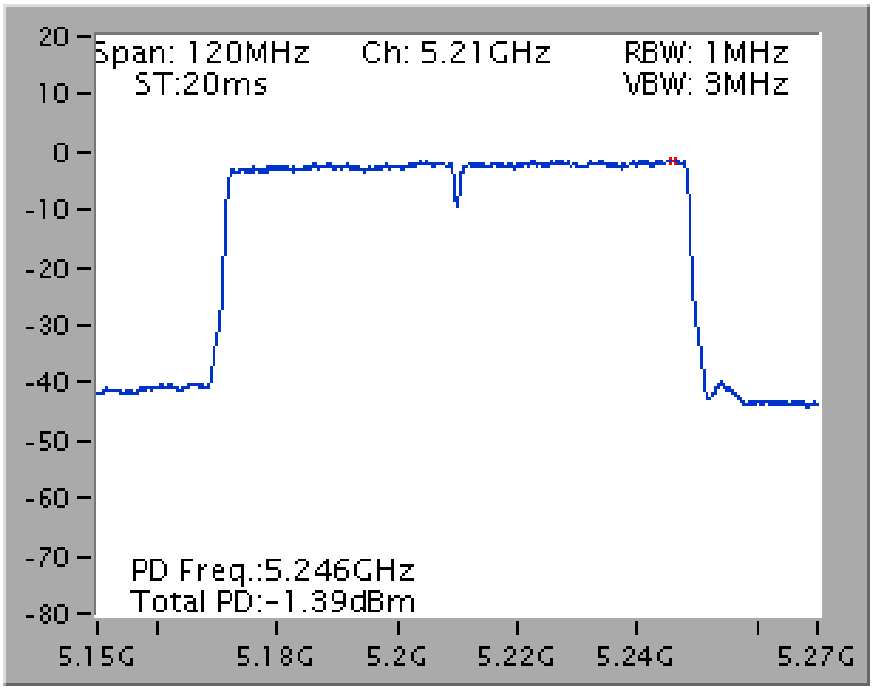
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5670 MHz



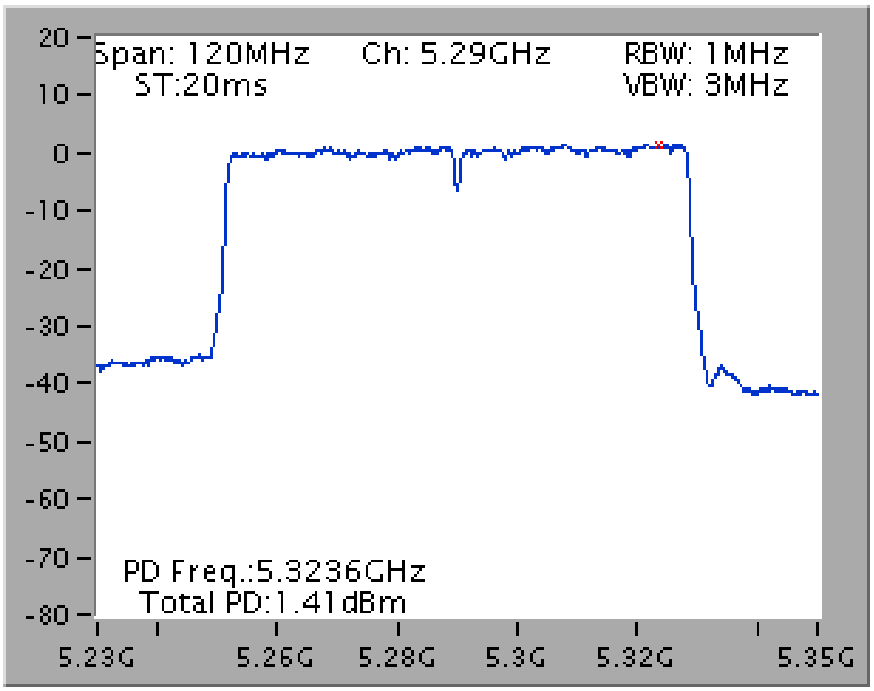
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5795 MHz



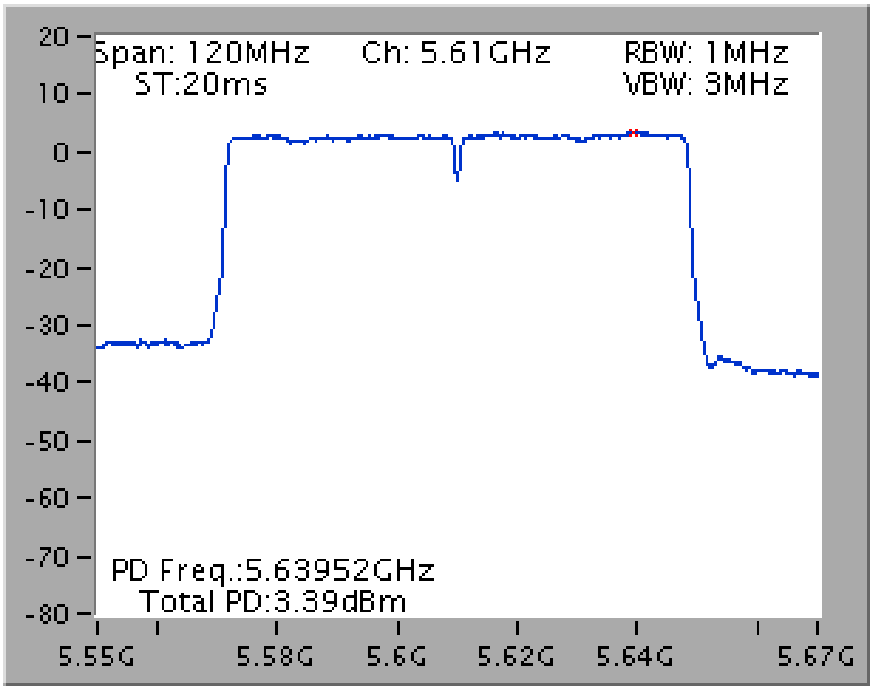
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



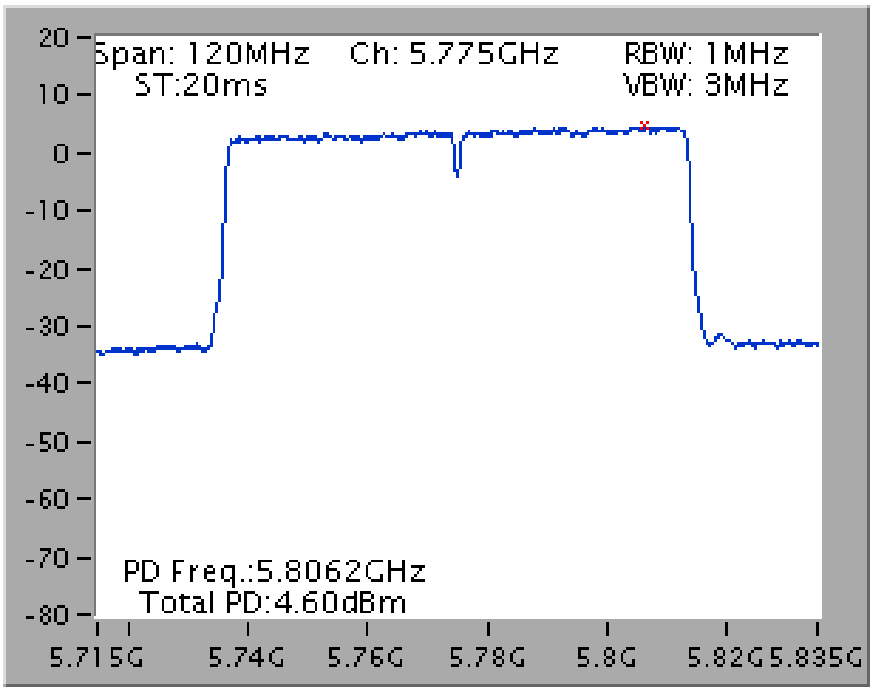
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5610 MHz

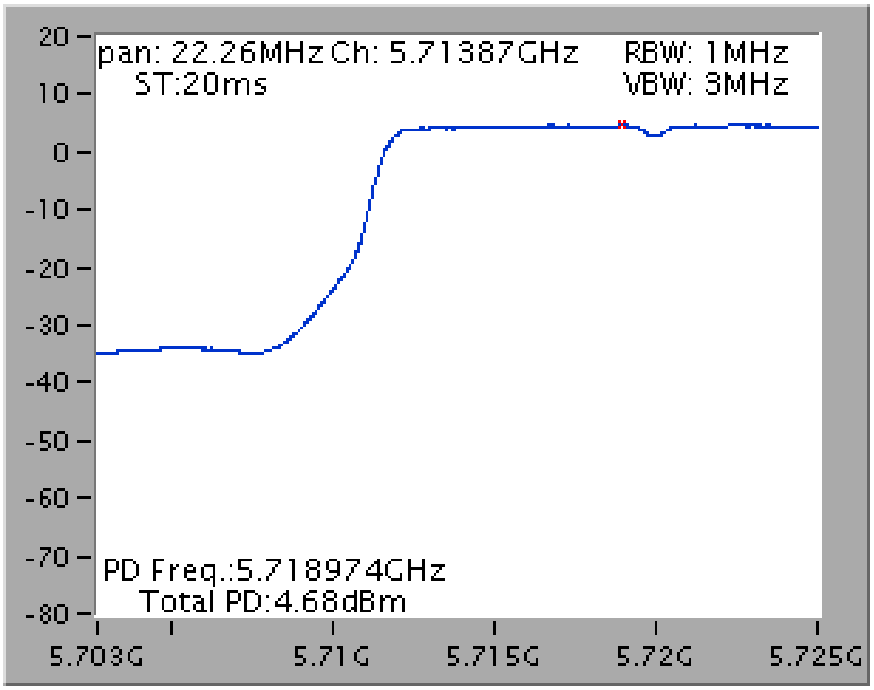


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

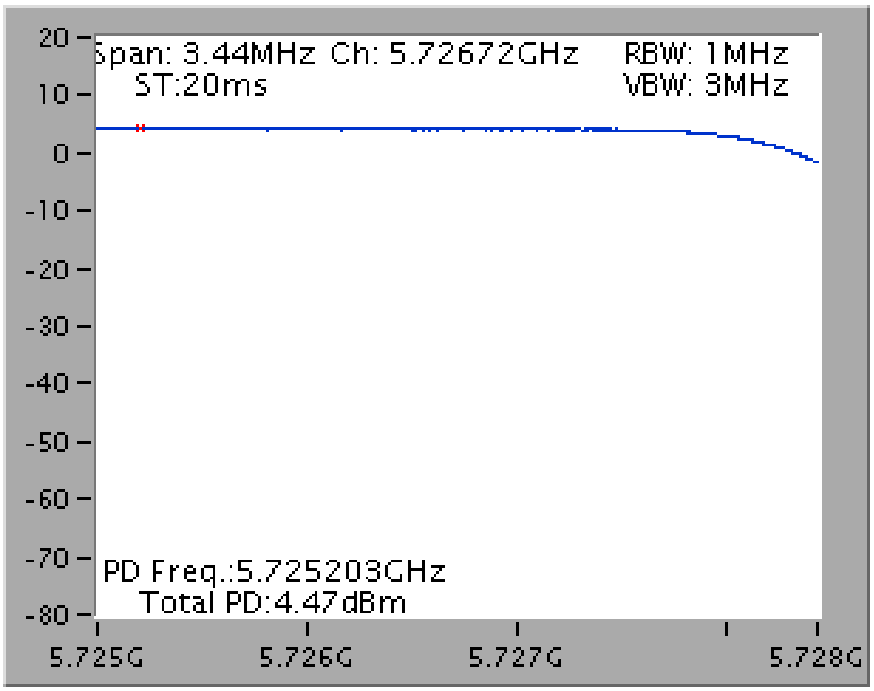


Straddle Channel

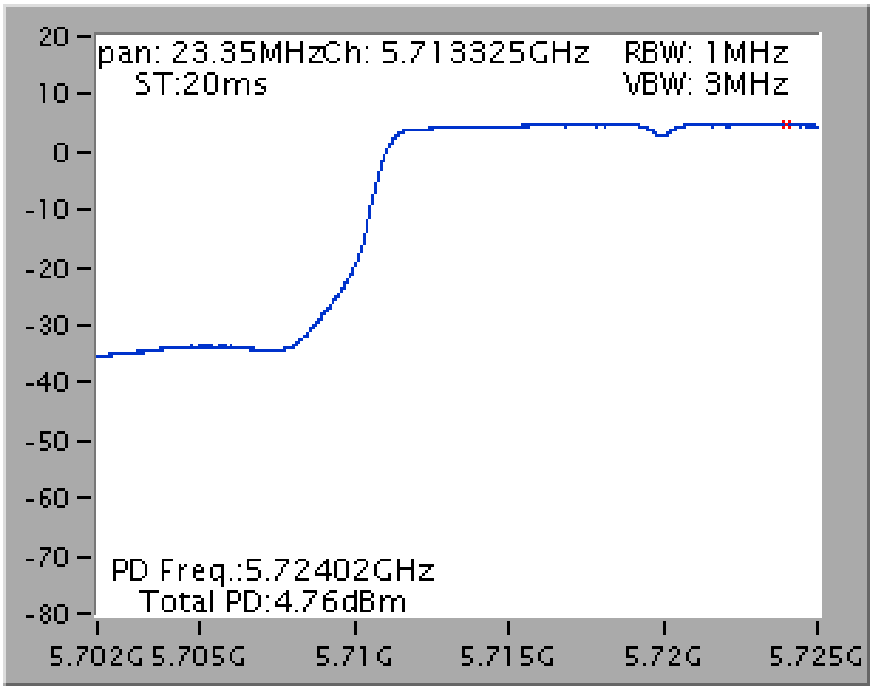
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



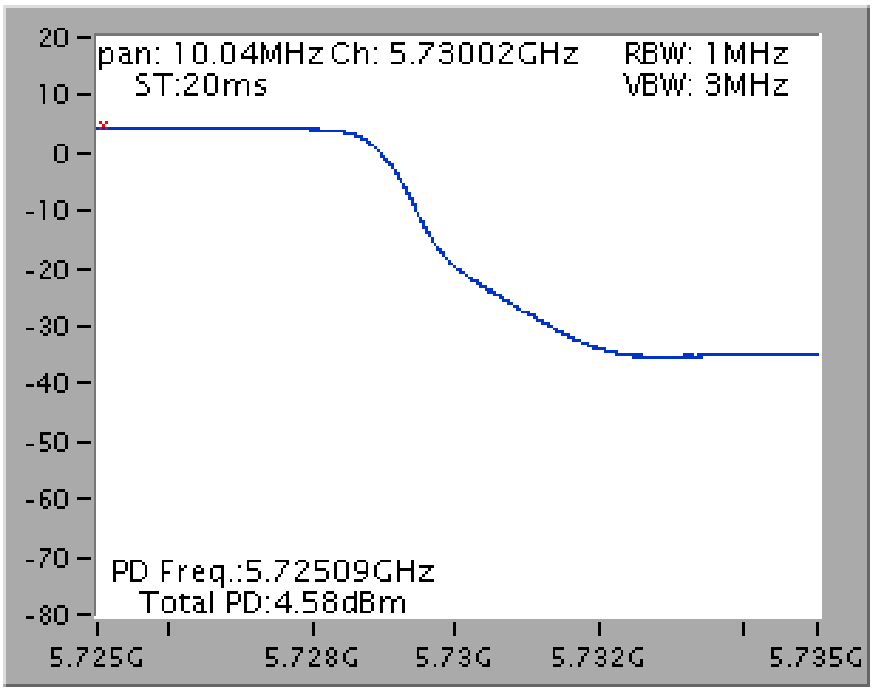
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



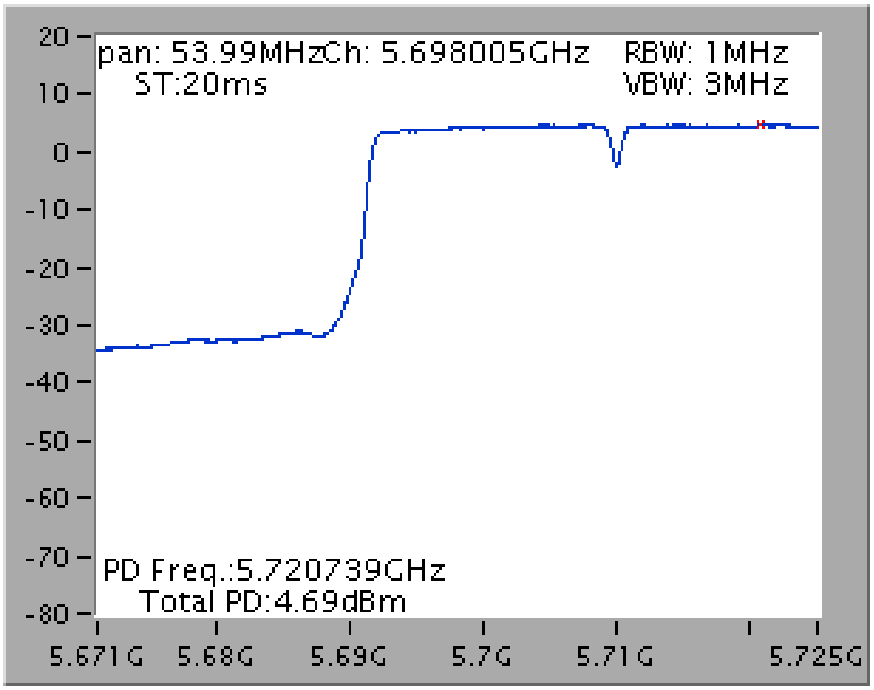
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



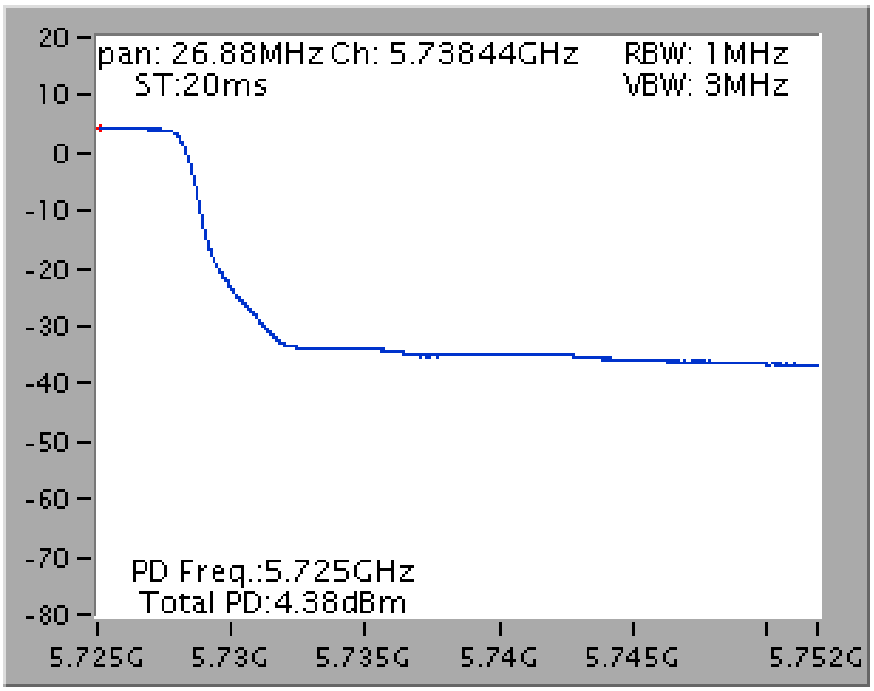
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



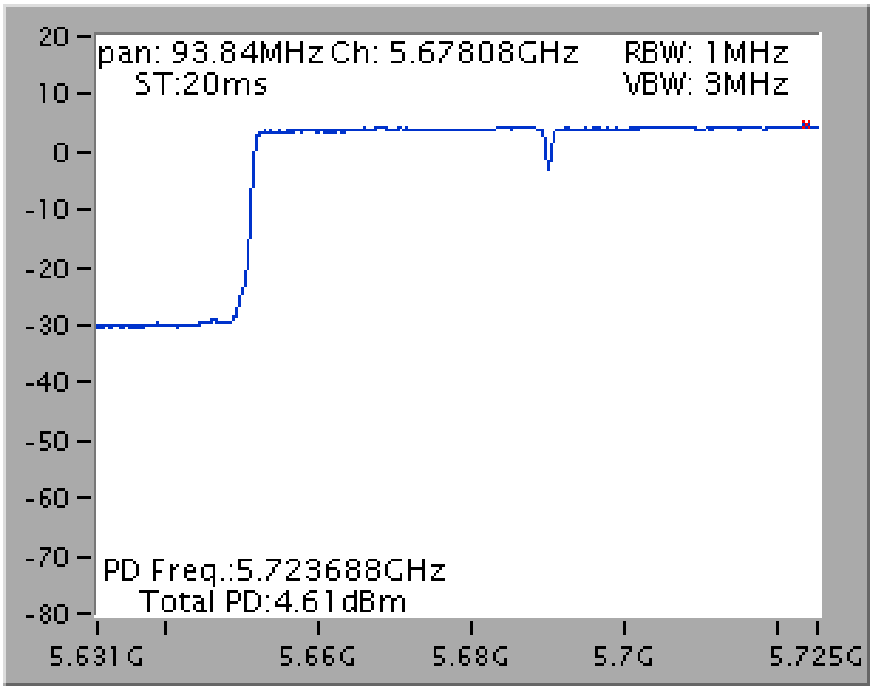
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 2C)



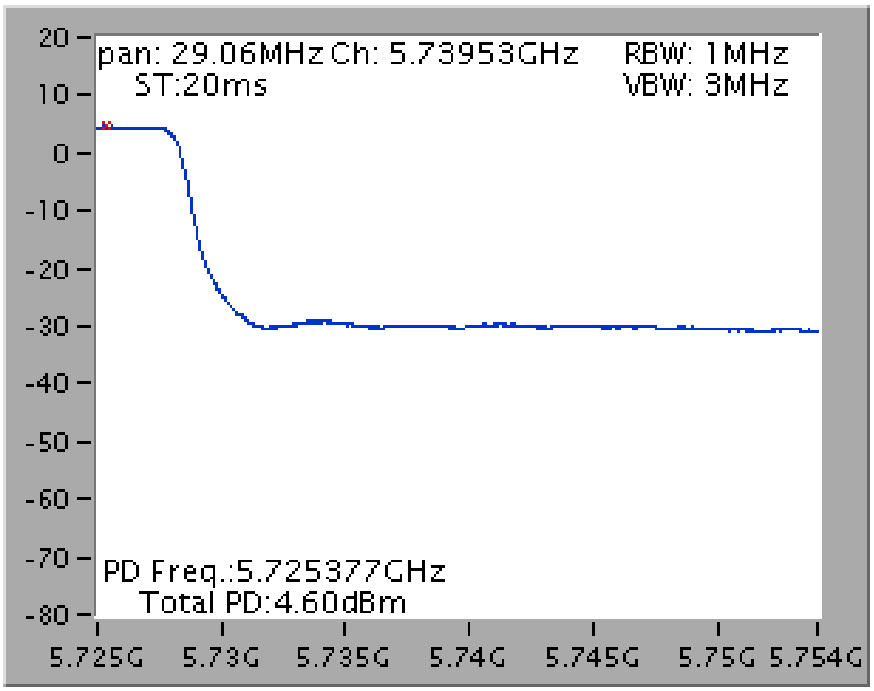
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

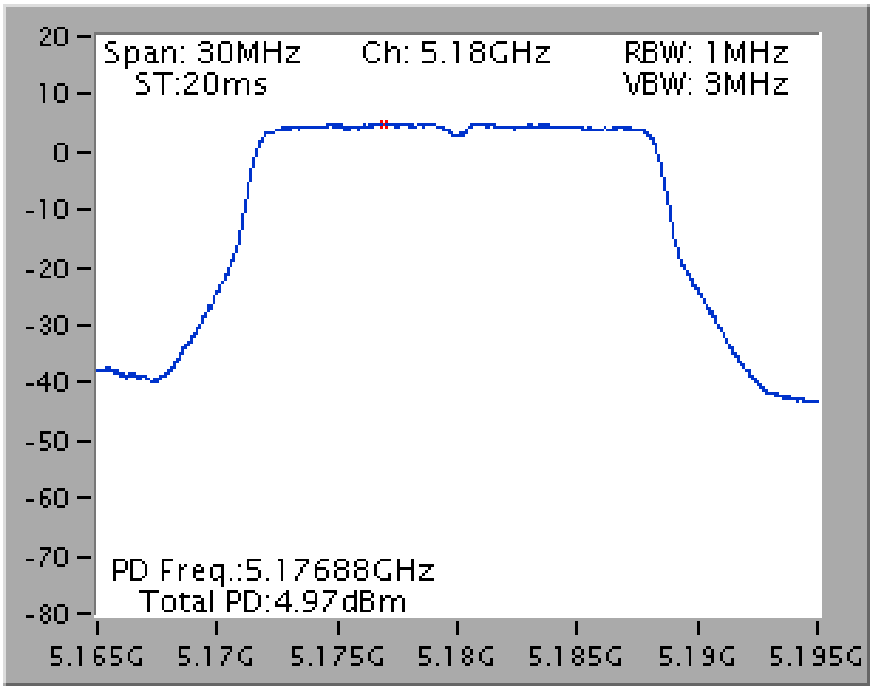


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 3)

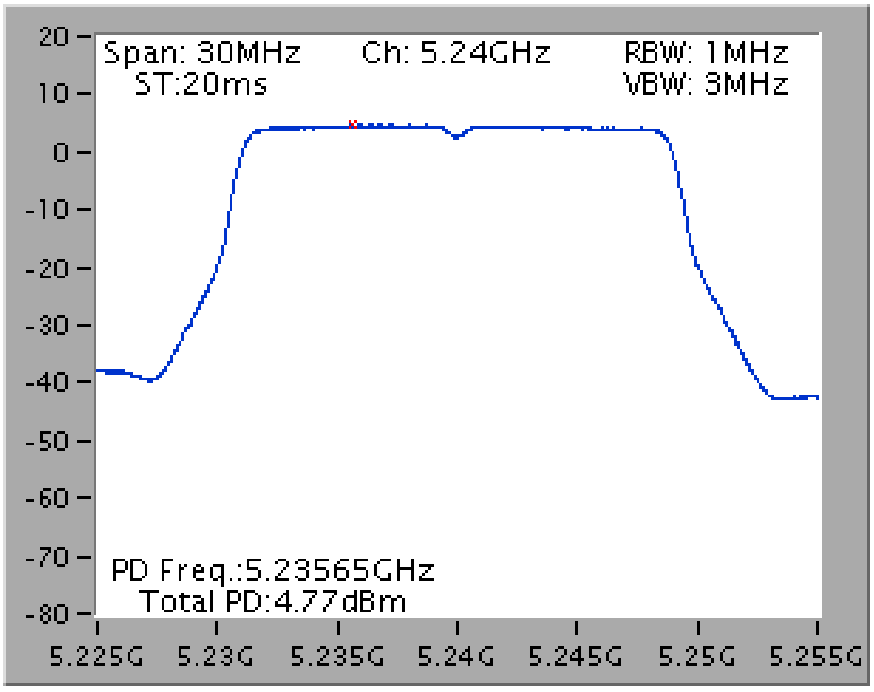


For indoor use slave without radar detection B1

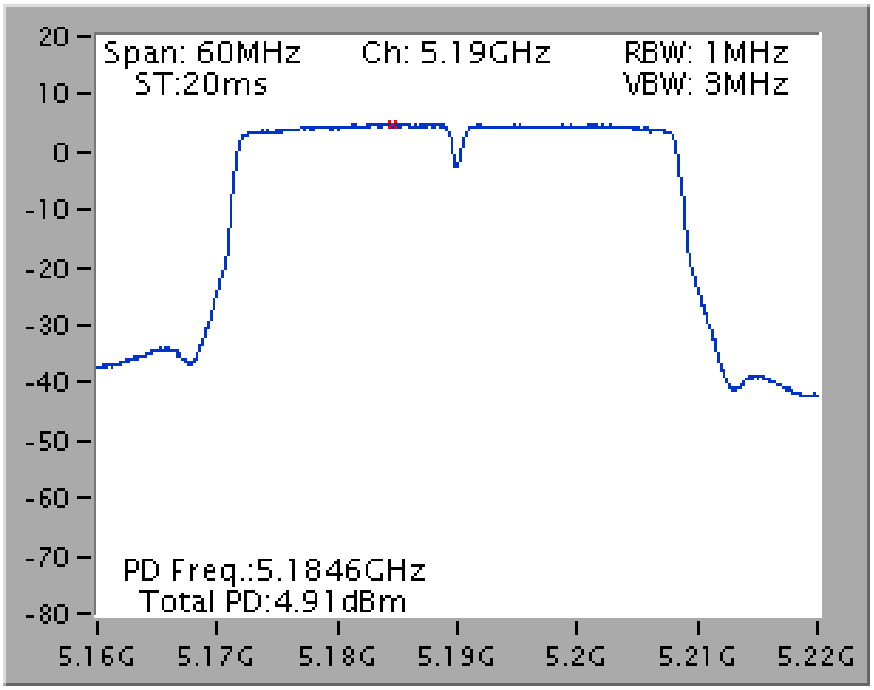
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5180 MHz



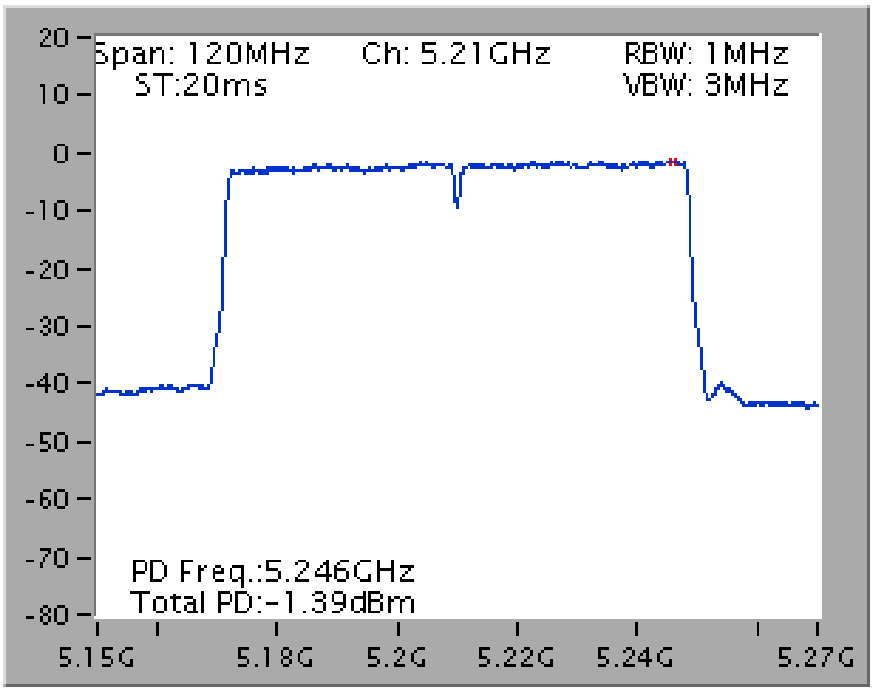
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5190 MHz

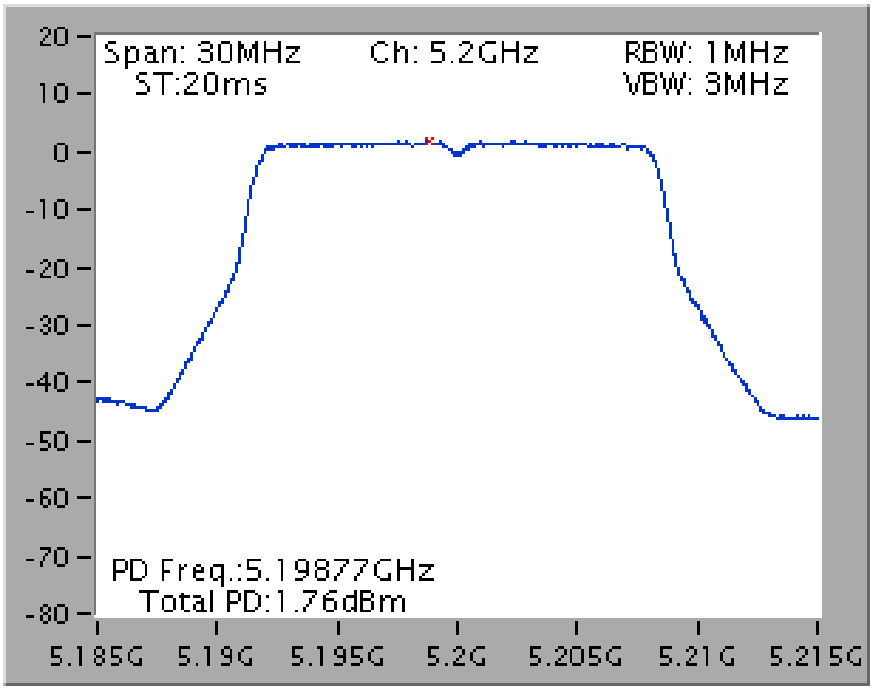


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz

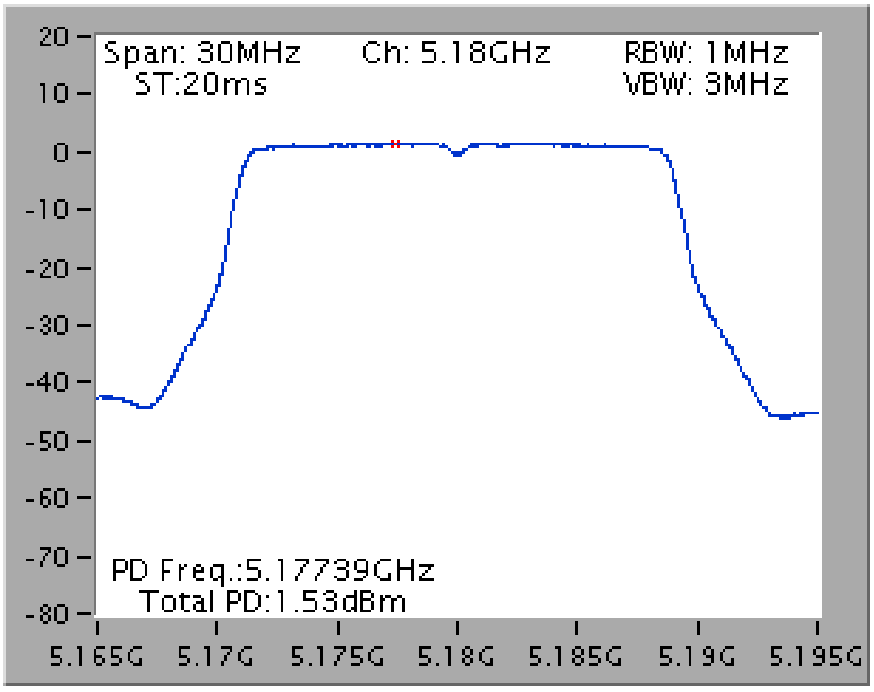


For outdoor use master B1

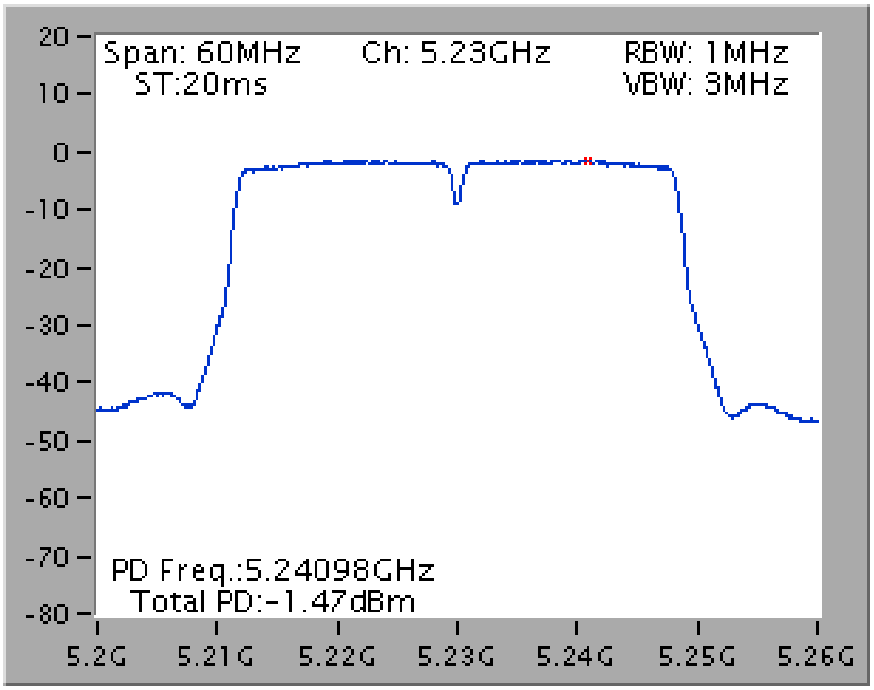
Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



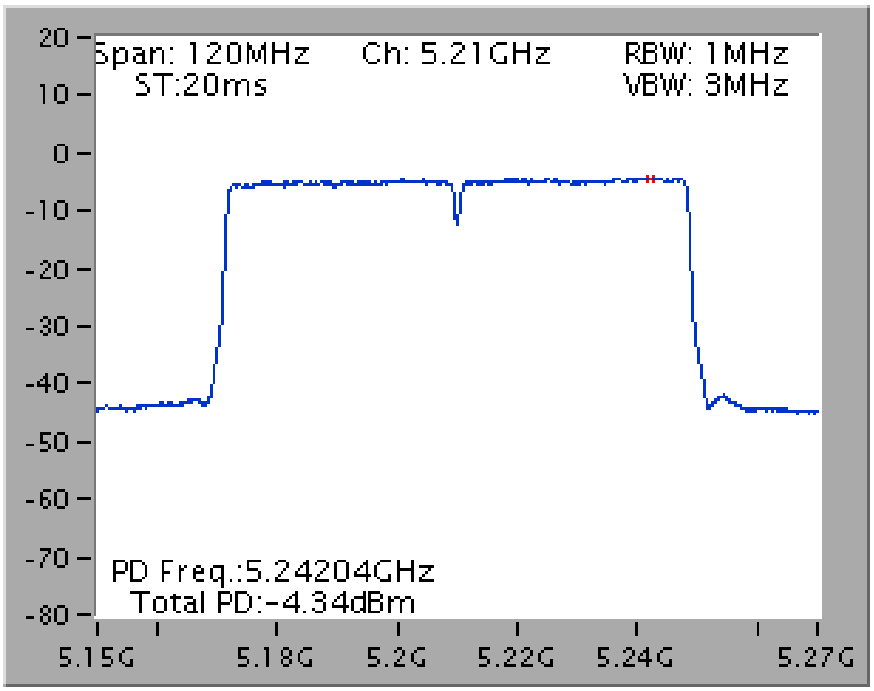
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz

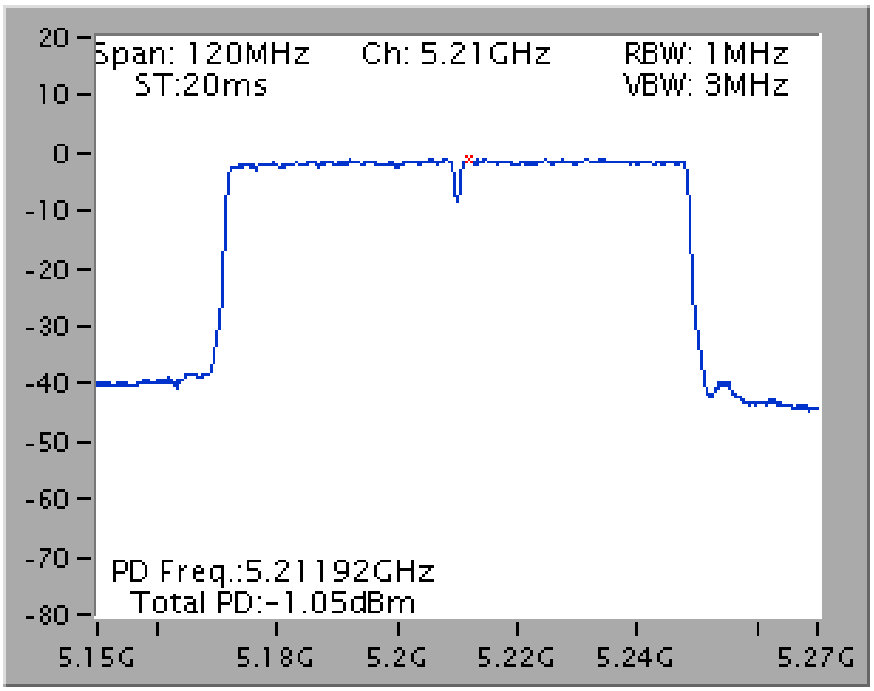


802.11ac MCS0/Nss2 VHT80+80

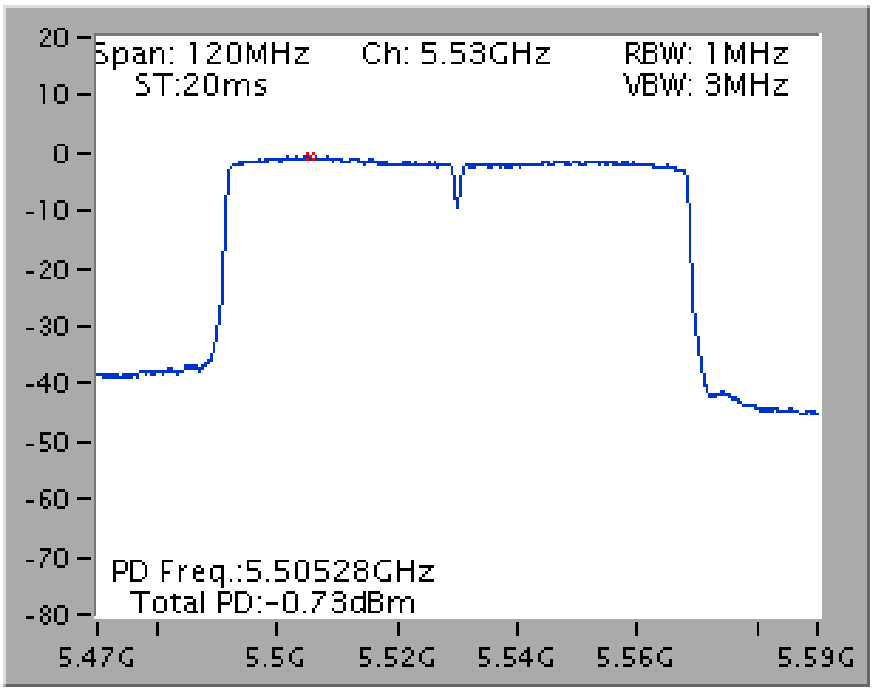
For indoor use master and slave without radar detection type1~4 and type13

Type 1

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

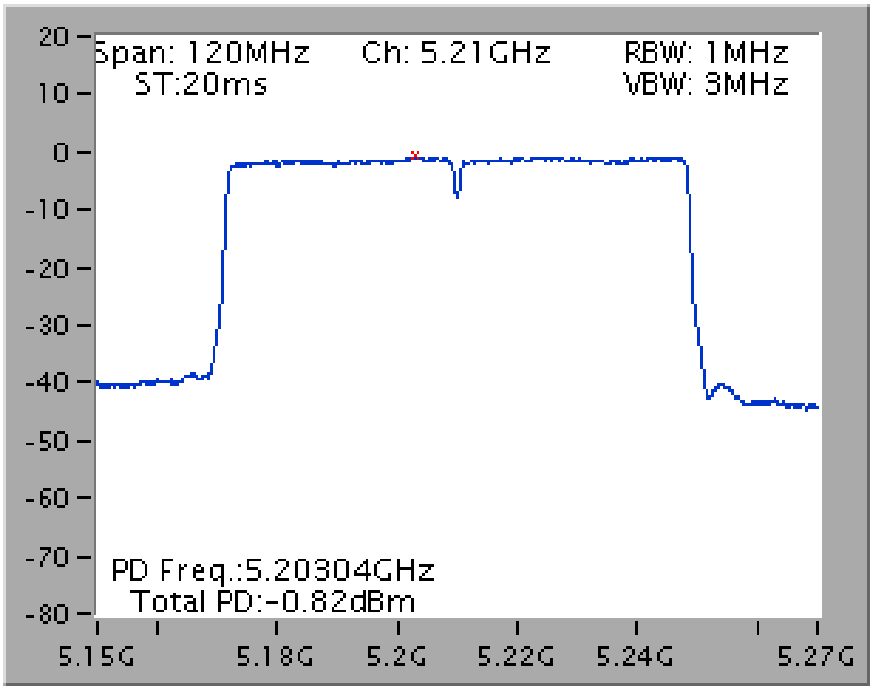


Power Density Plot on Chain 3 + Chain 4 / 5530 MHz

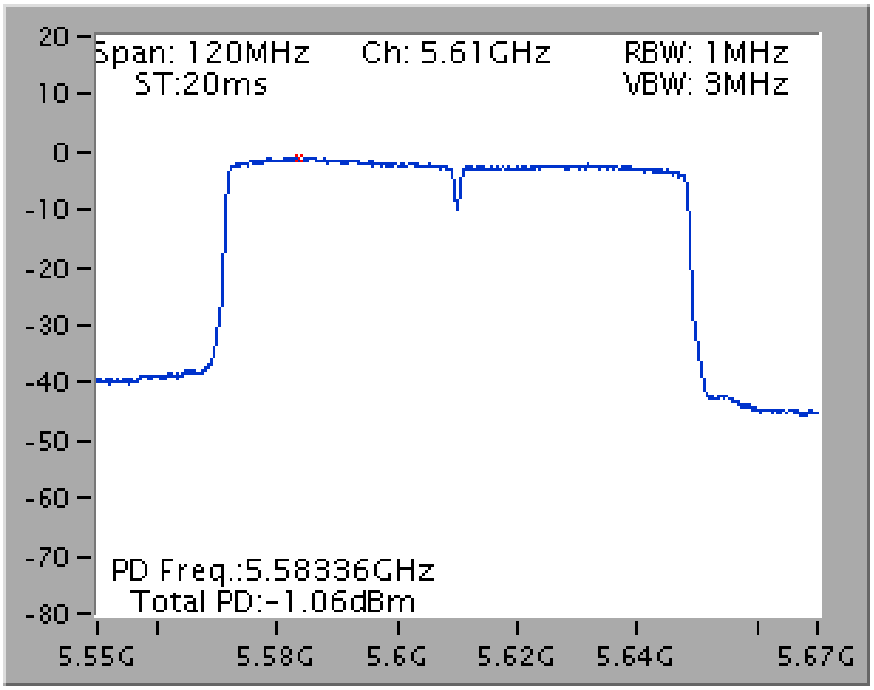


Type 2

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

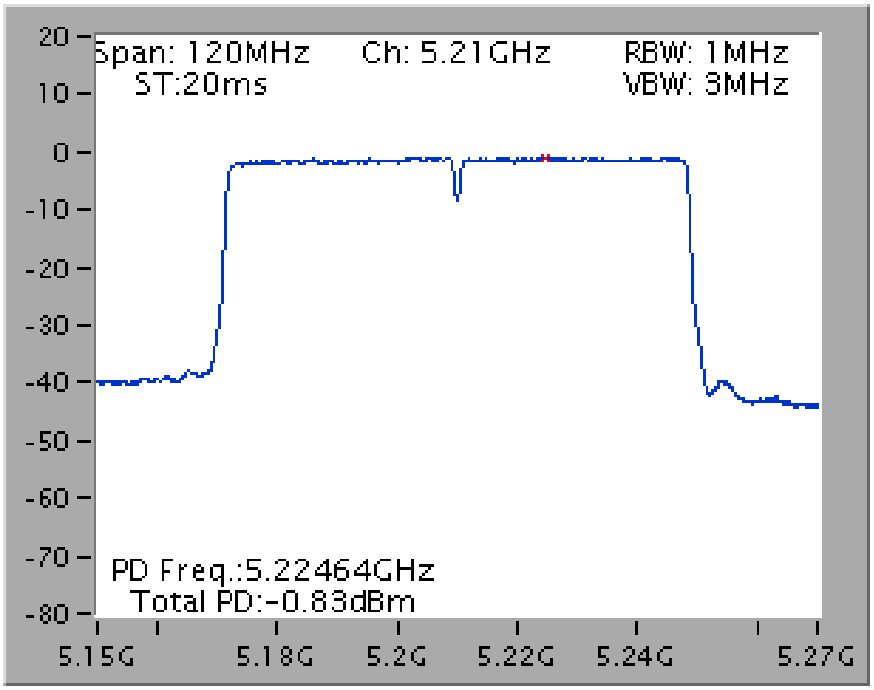


Power Density Plot on Chain 3 + Chain 4 / 5610 MHz

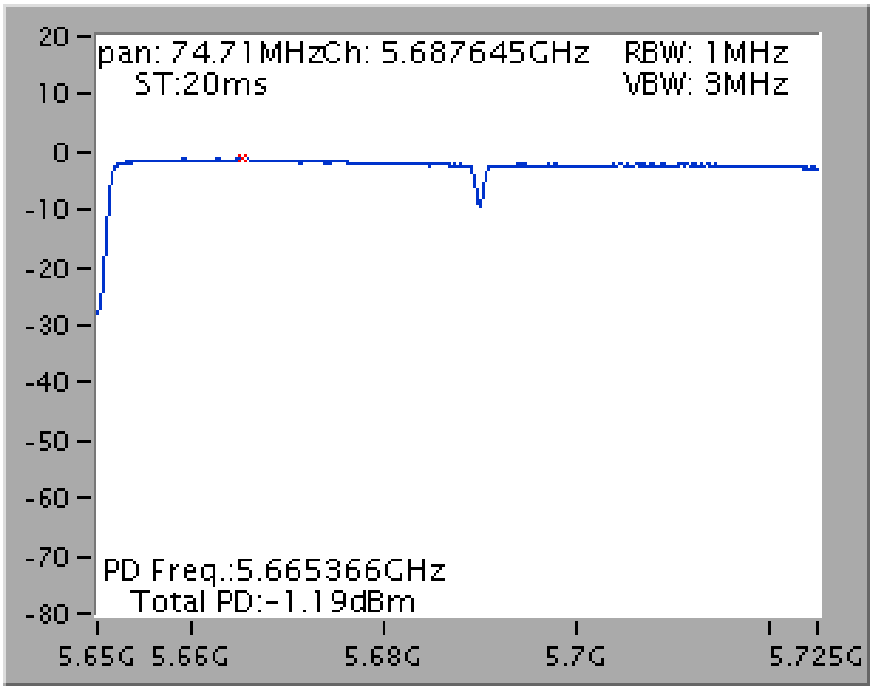


Type 3

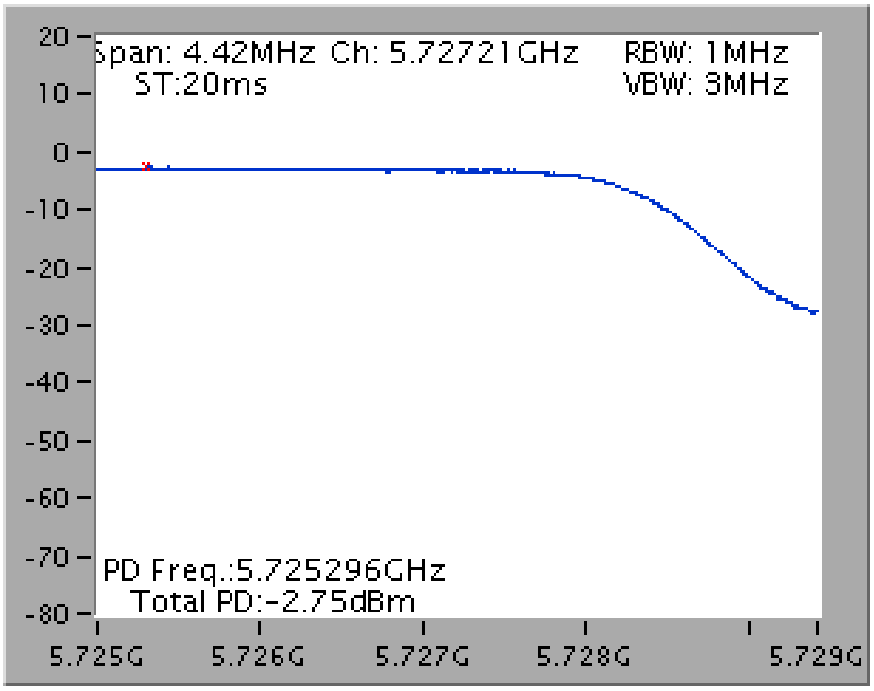
Power Density Plot on Chain 1 + Chain 2 / 5210 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

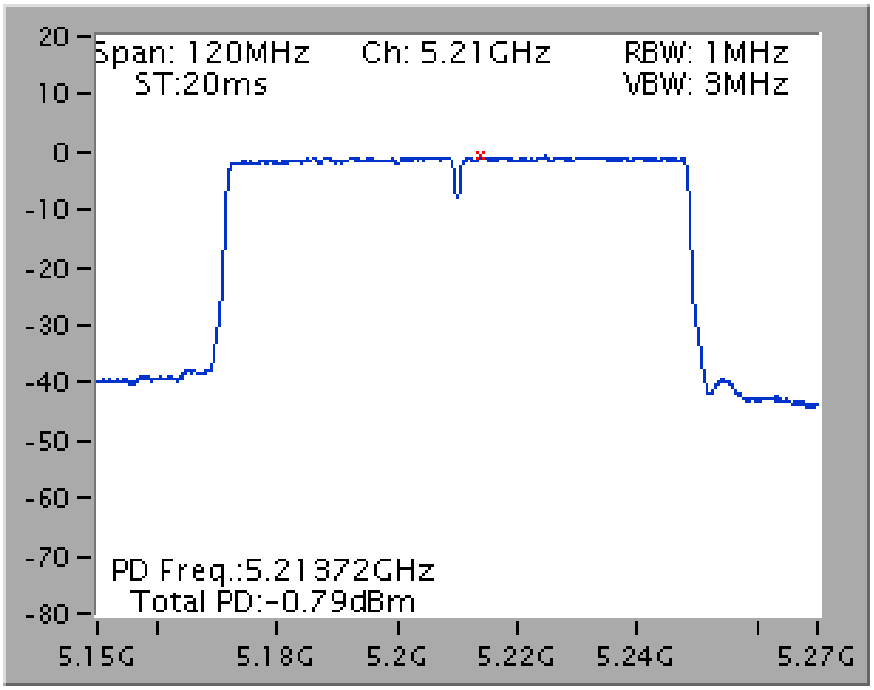


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

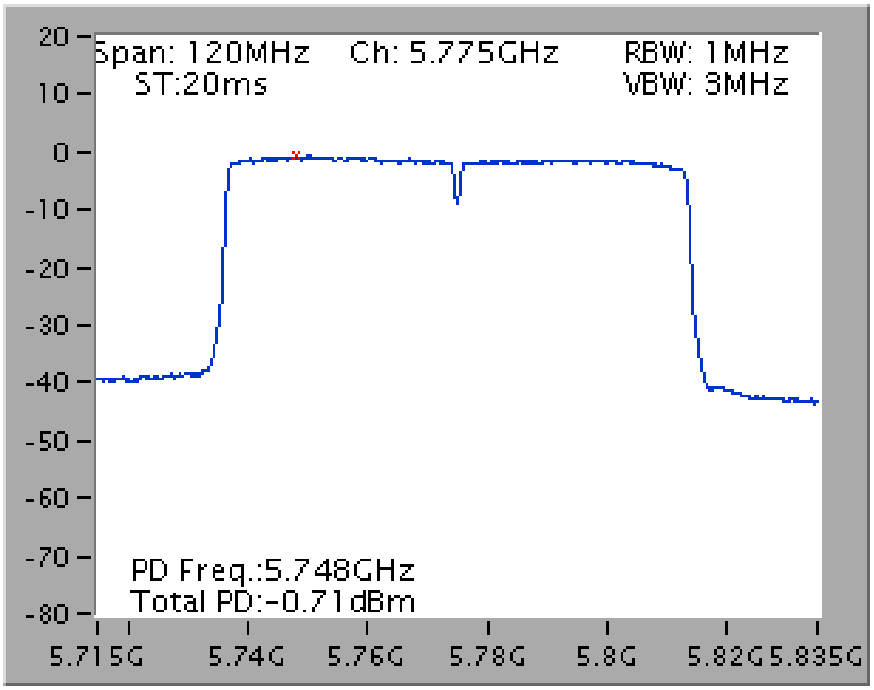


Type 4

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

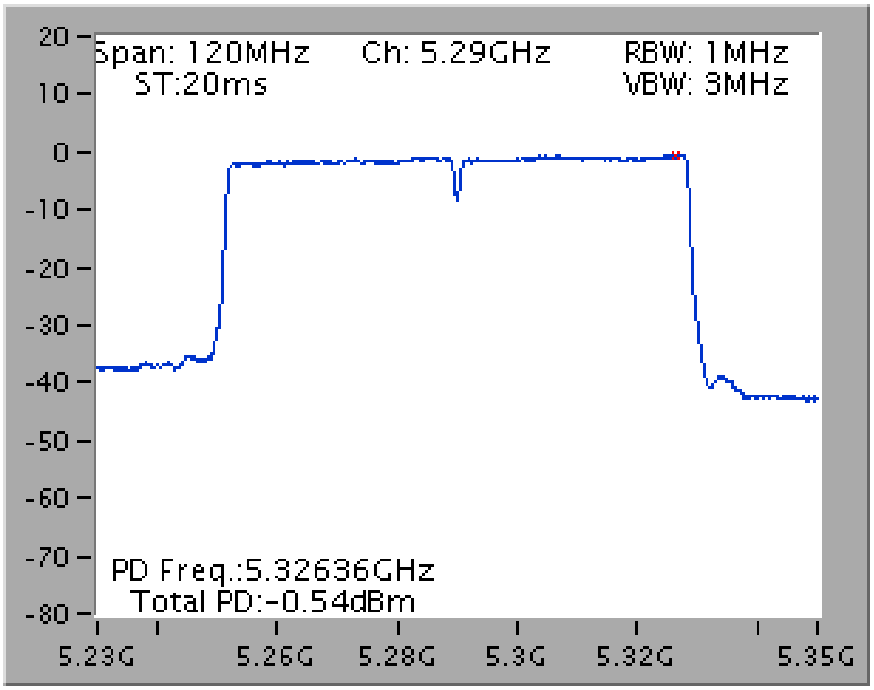


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

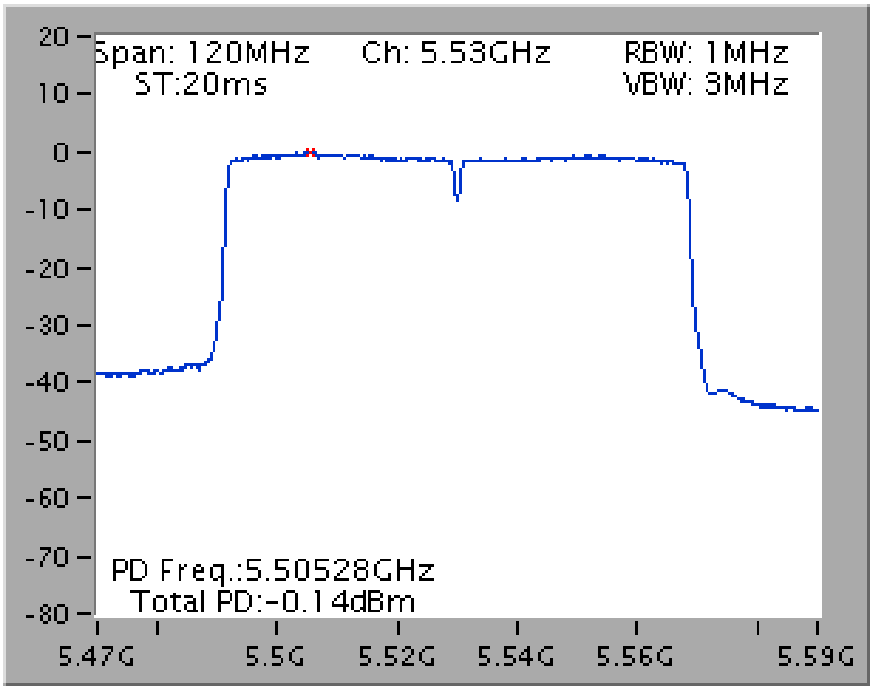


Type 5

Power Density Plot on Chain 1 + Chain 2 / 5290 MHz

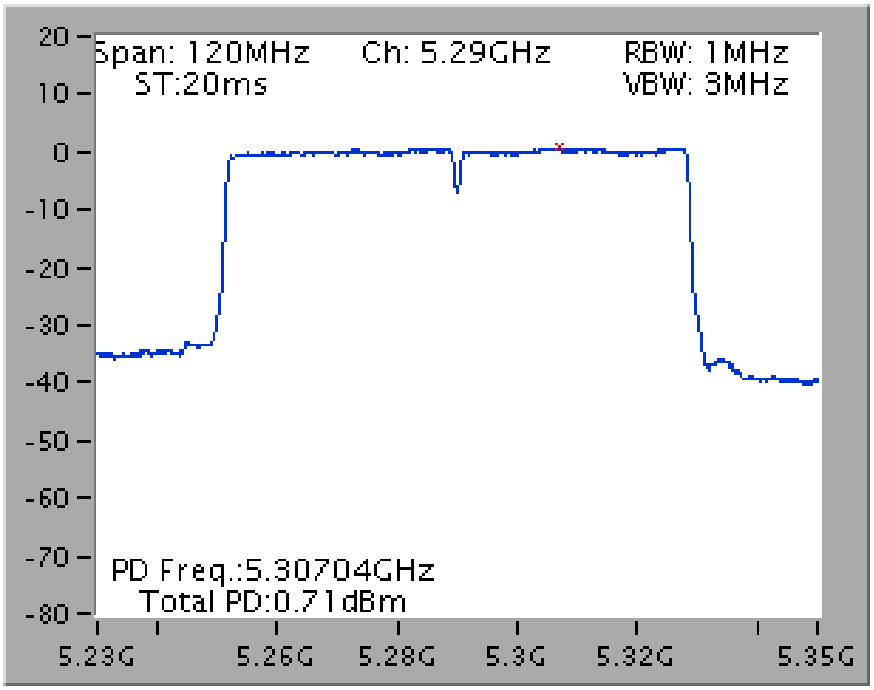


Power Density Plot on Chain 3 + Chain 4 / 5530 MHz

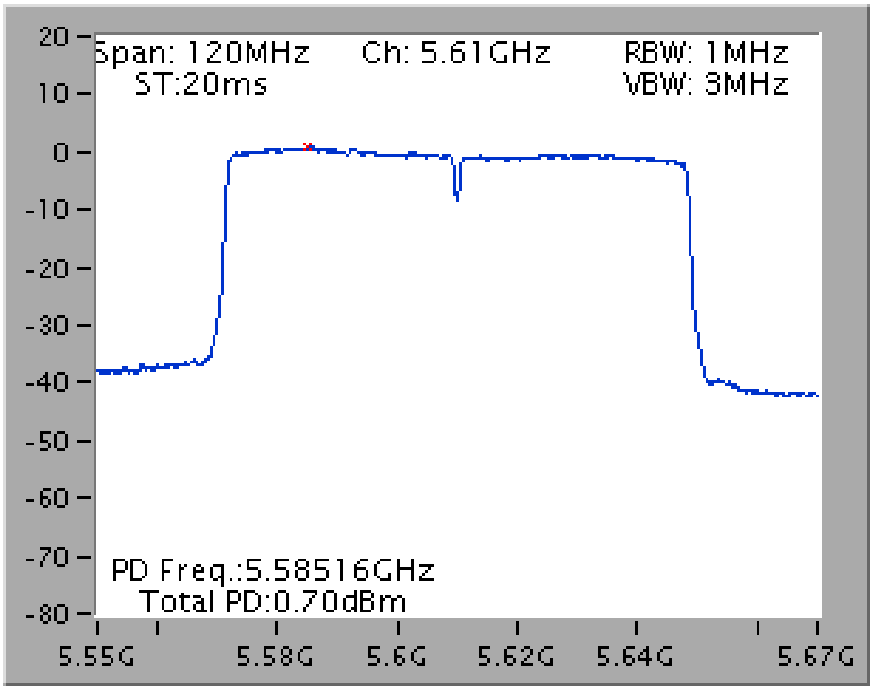


Type 6

Power Density Plot on Chain 1 + Chain 2 / 5290 MHz

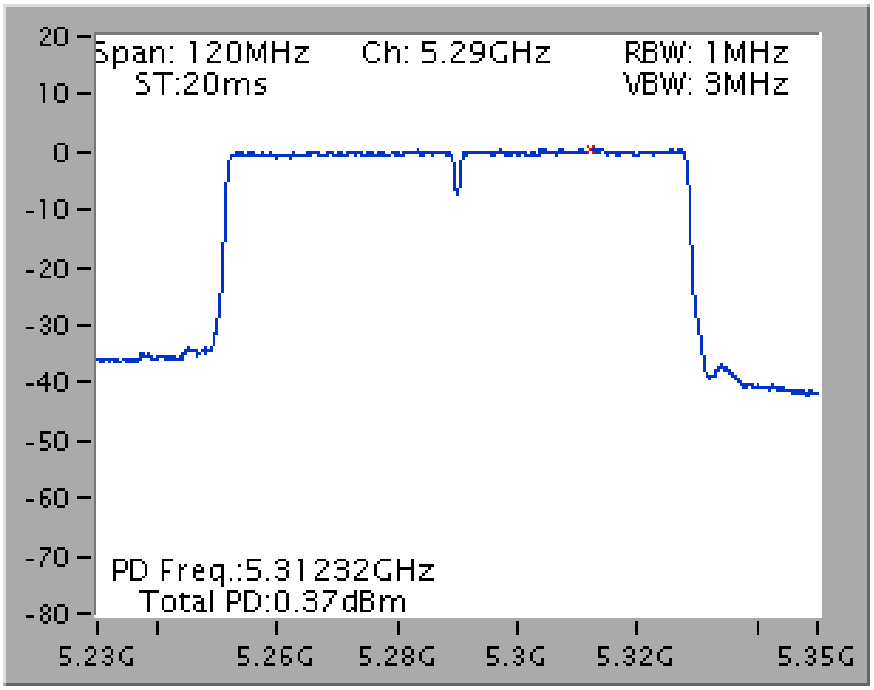


Power Density Plot on Chain 3 + Chain 4 / 5610 MHz

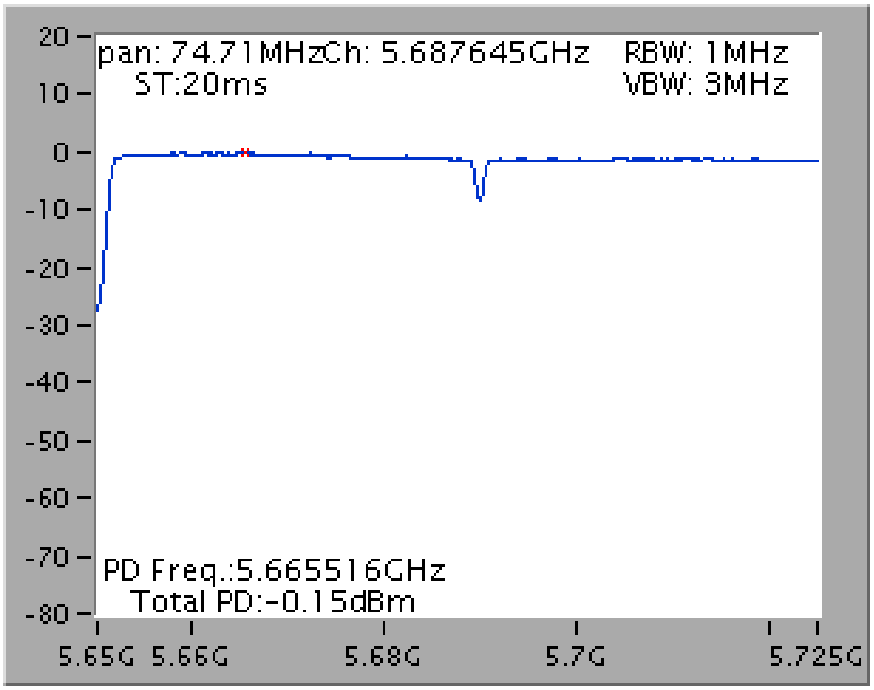


Type 7

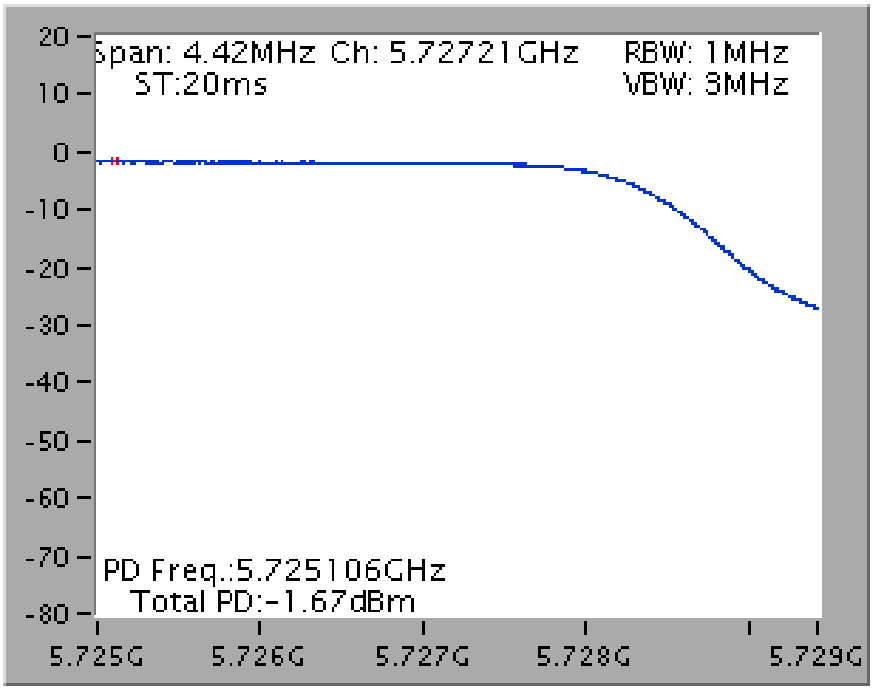
Power Density Plot on Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

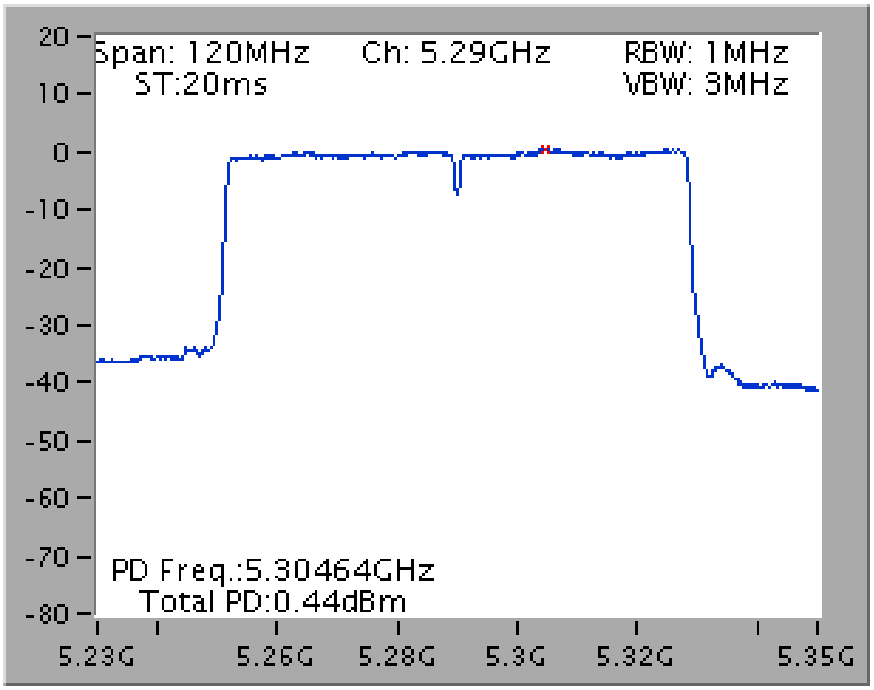


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

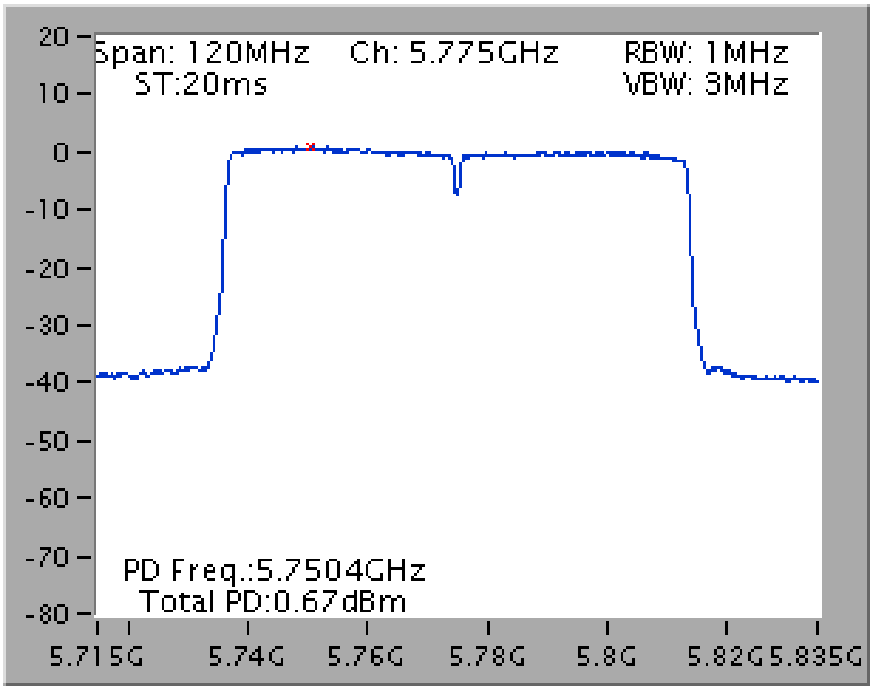


Type 8

Power Density Plot on Chain 1 + Chain 2 / 5290 MHz

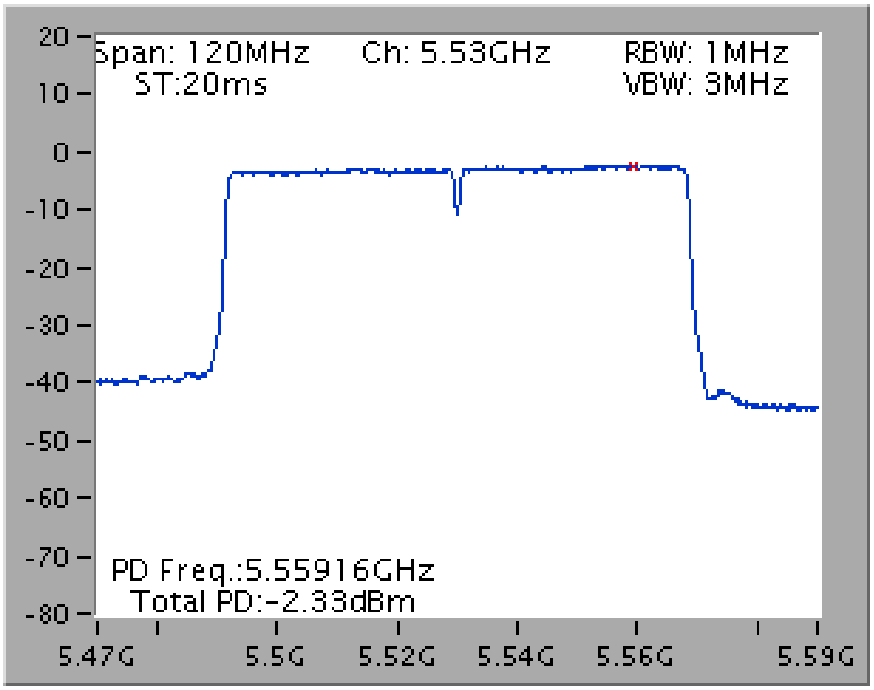


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

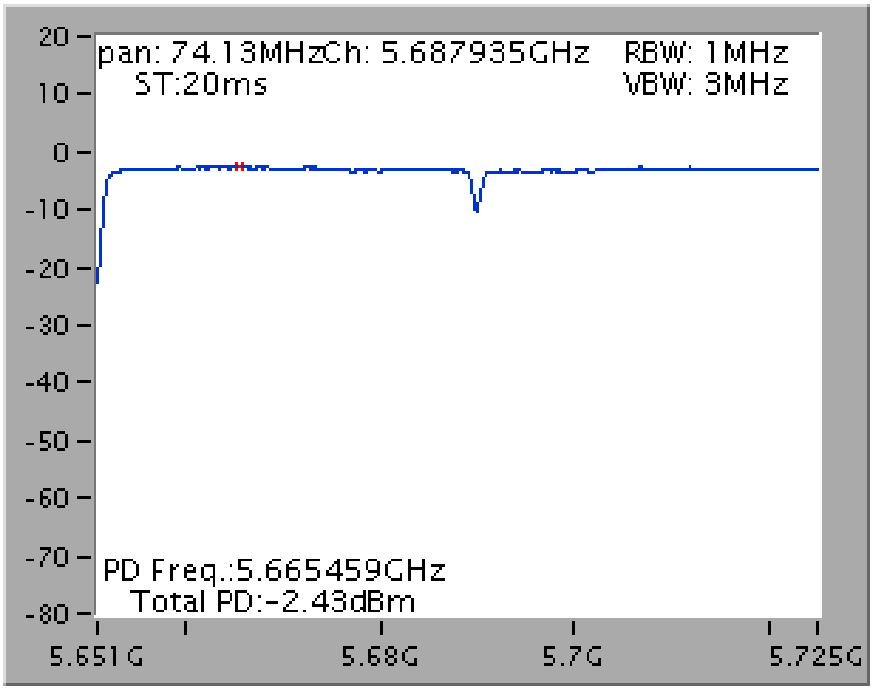


Type 9

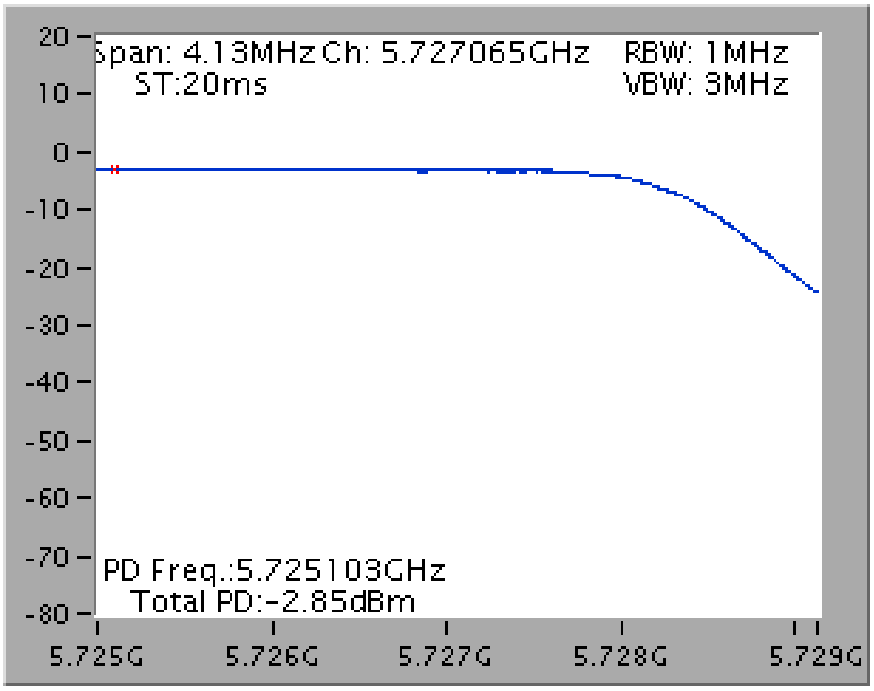
Power Density Plot on Chain 1 + Chain 2 / 5530 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

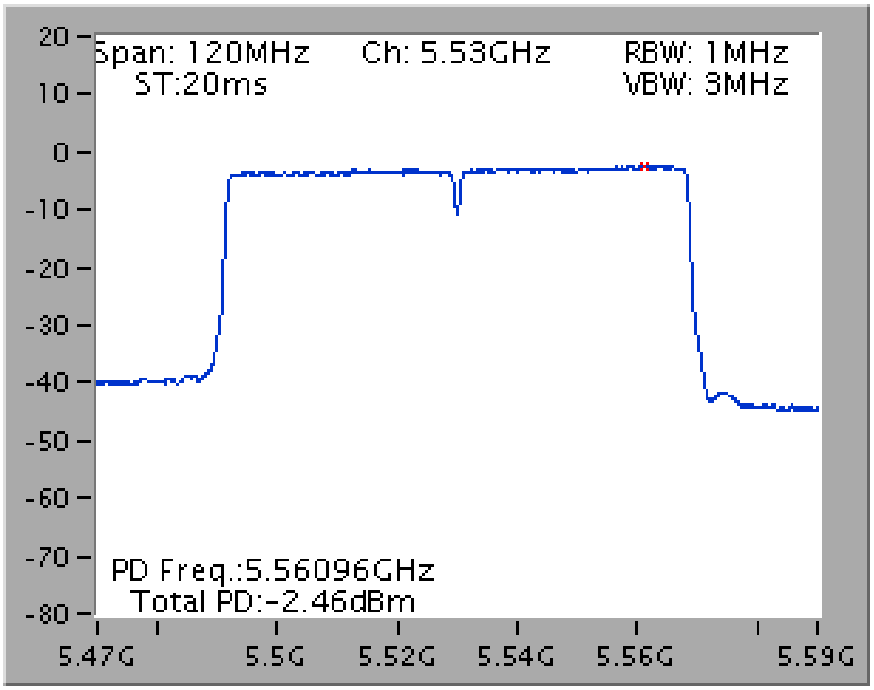


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

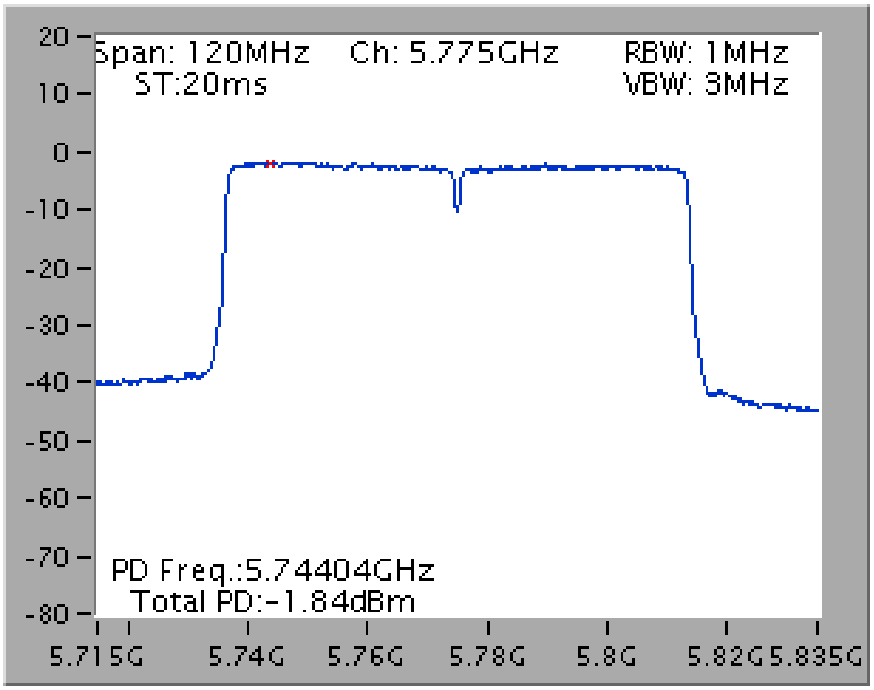


Type 10

Power Density Plot on Chain 1 + Chain 2 / 5530 MHz

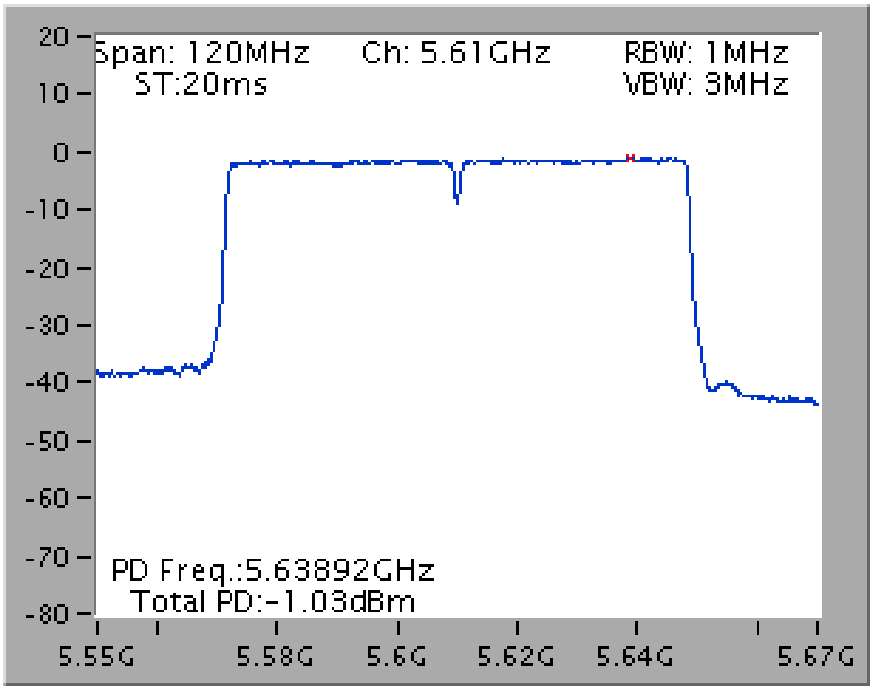


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

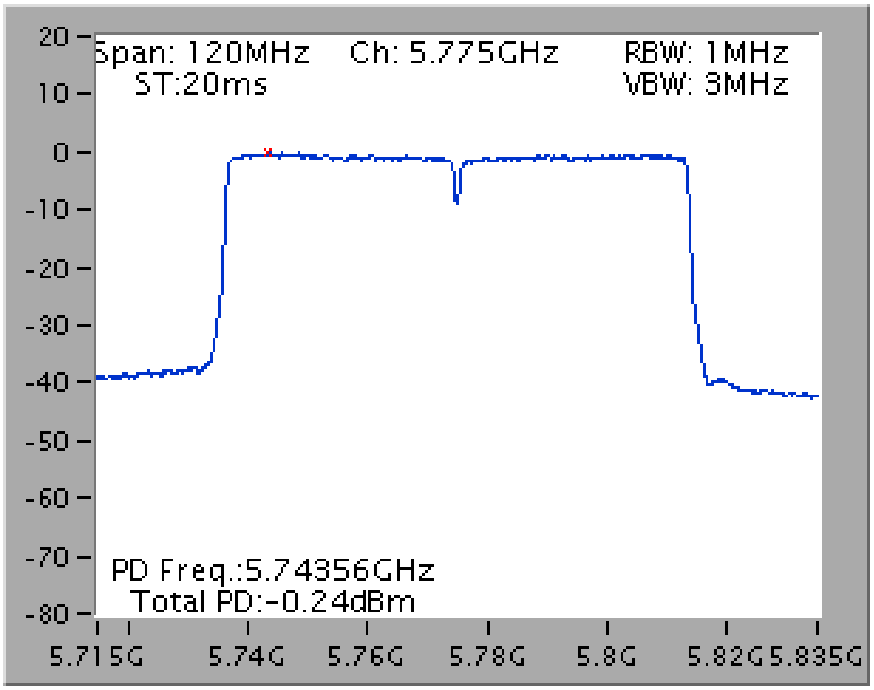


Type 11

Power Density Plot on Chain 1 + Chain 2 / 5610 MHz

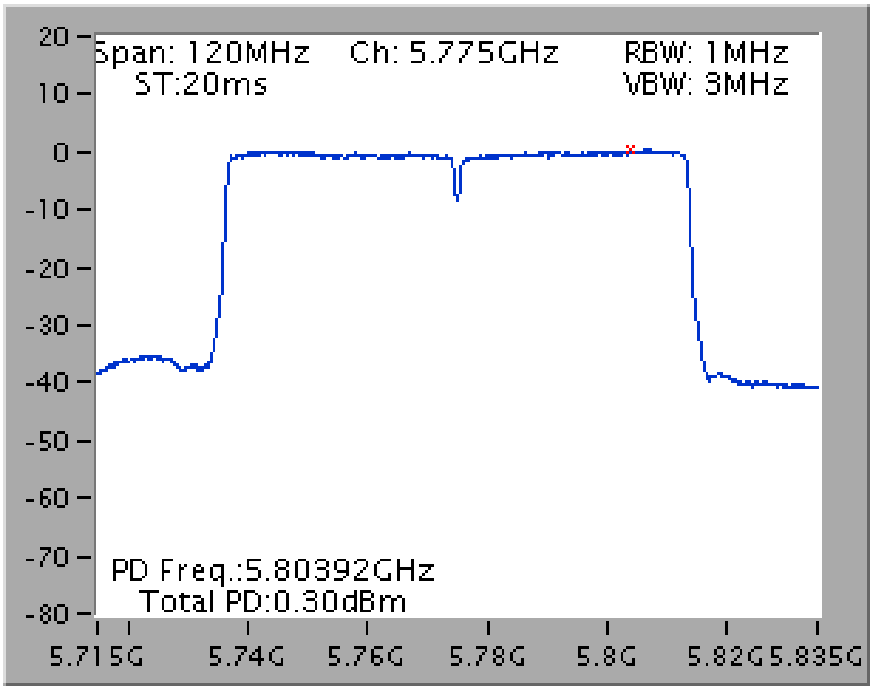


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

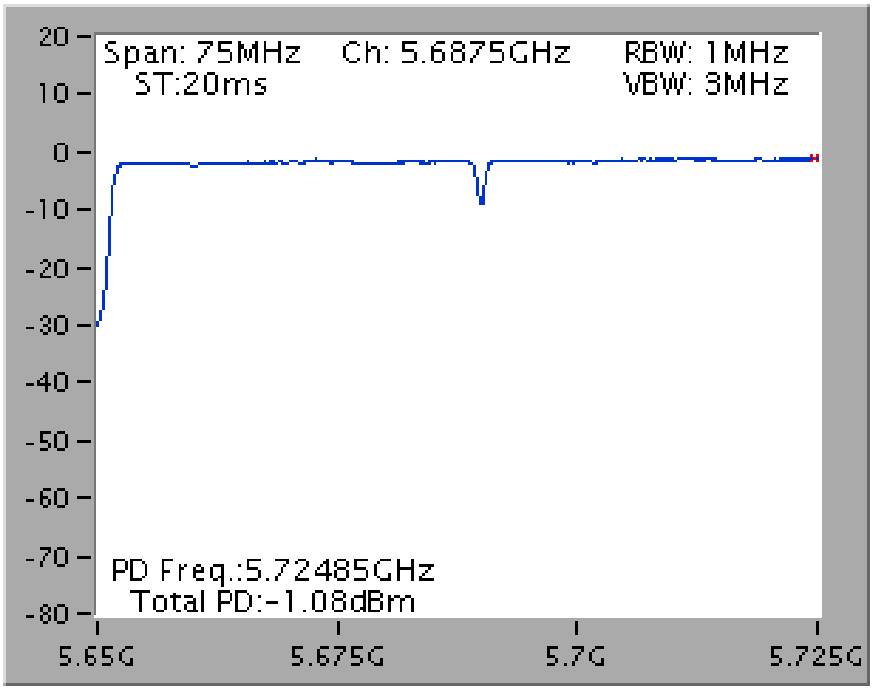


Type 12

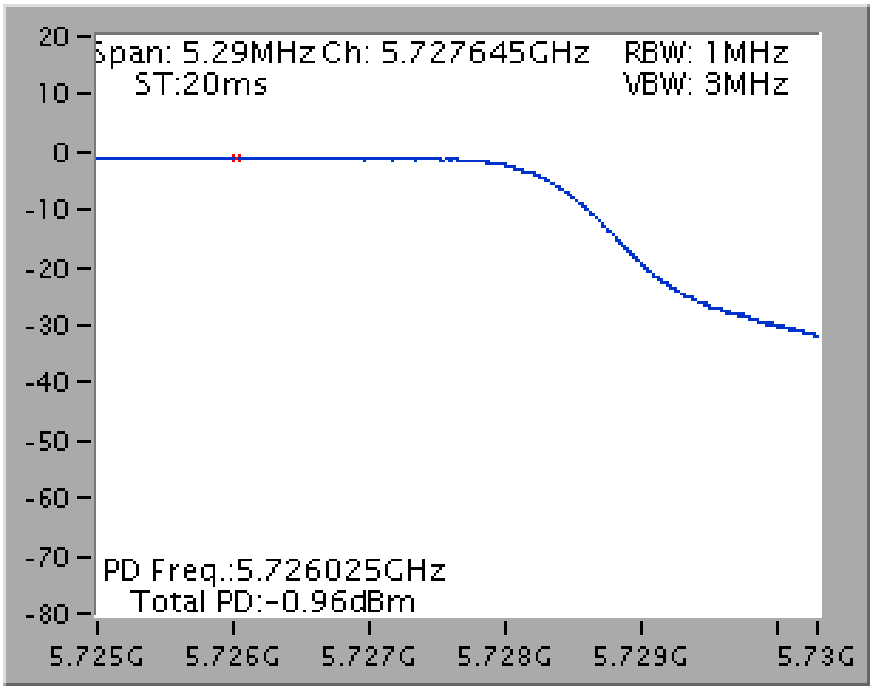
Power Density Plot on Chain 3 + Chain 4 / 5775 MHz



Power Density Plot on Chain 1 + Chain 2 / 5690 MHz (UNII 2C)

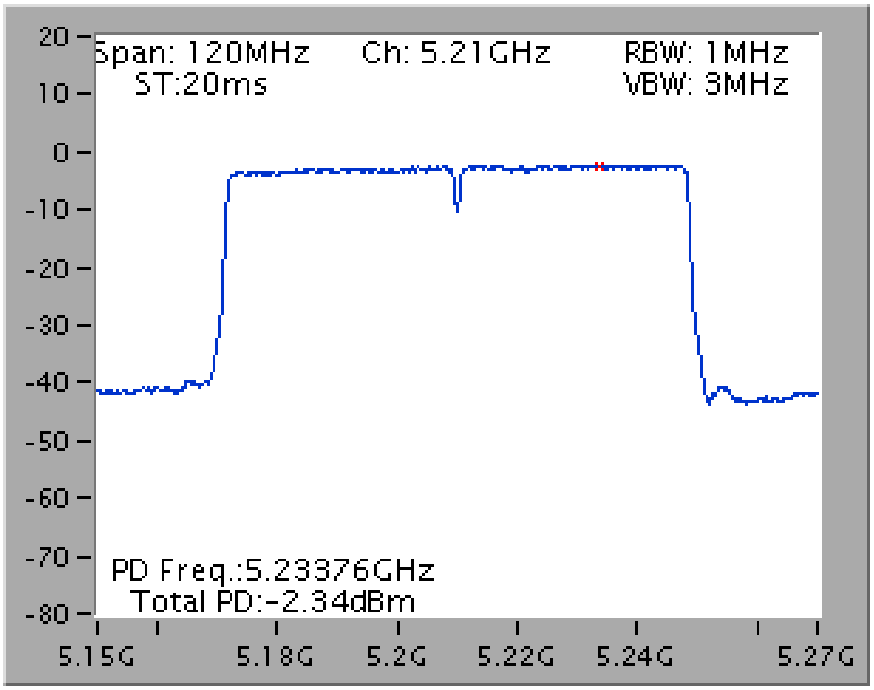


Power Density Plot on Chain 1 + Chain 2 / 5690 MHz (UNII 3)

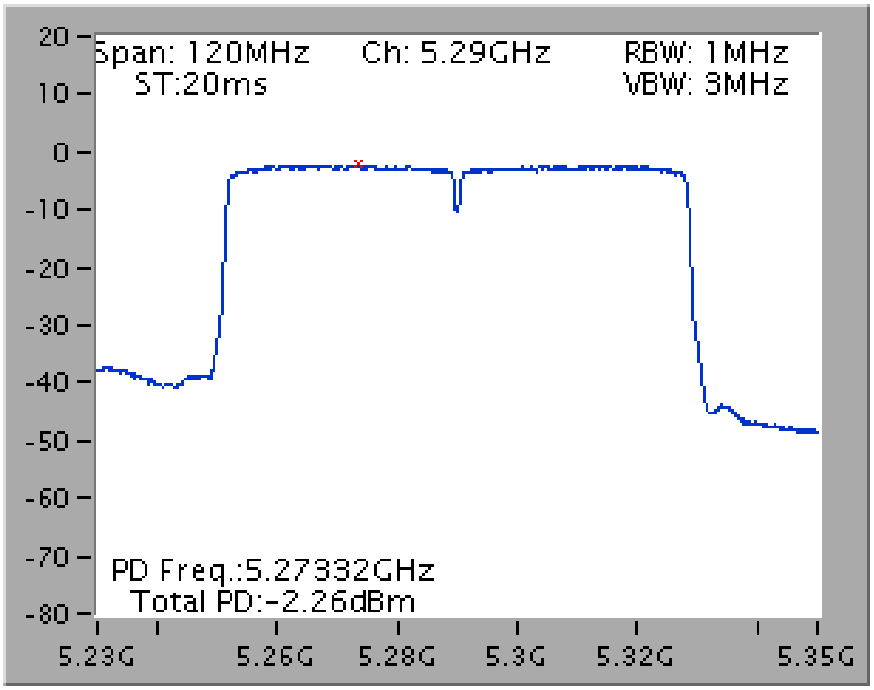


Type 13

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

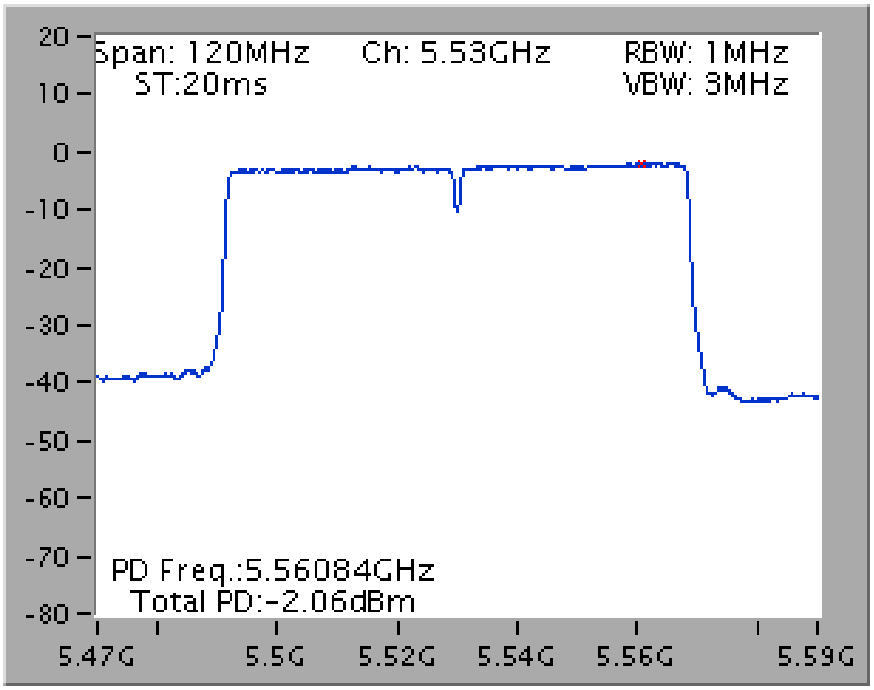


Power Density Plot on Chain 3 + Chain 4 / 5290 MHz

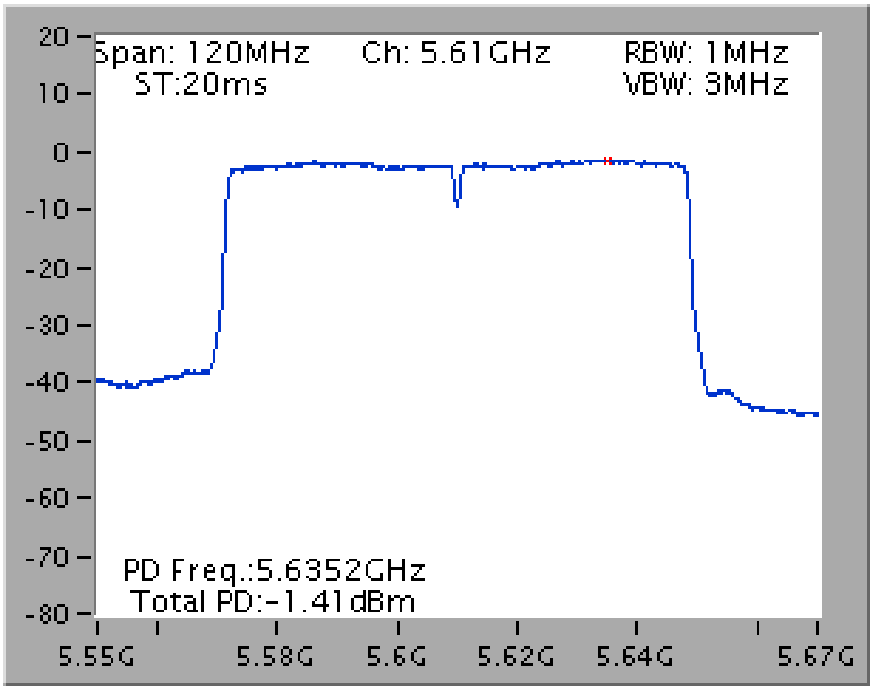


Type 14

Power Density Plot on Chain 1 + Chain 2 / 5530 MHz

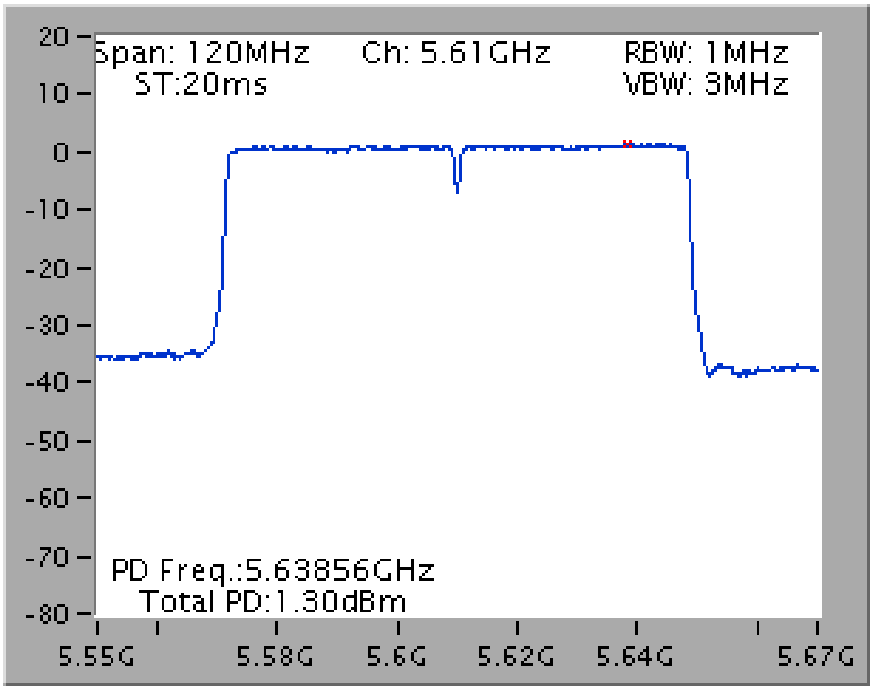


Power Density Plot on Chain 3 + Chain 4 / 5610 MHz

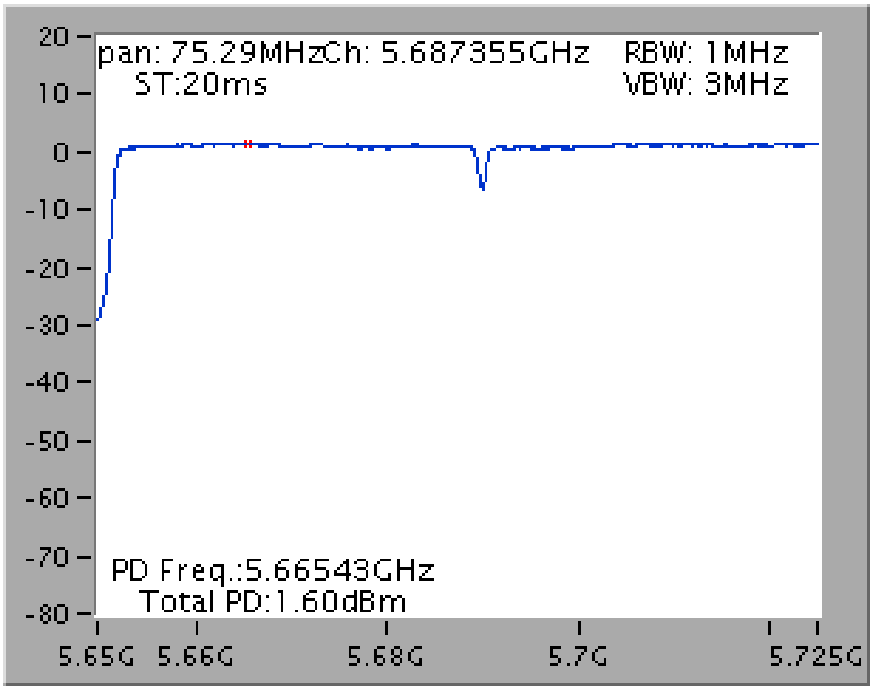


Type 15

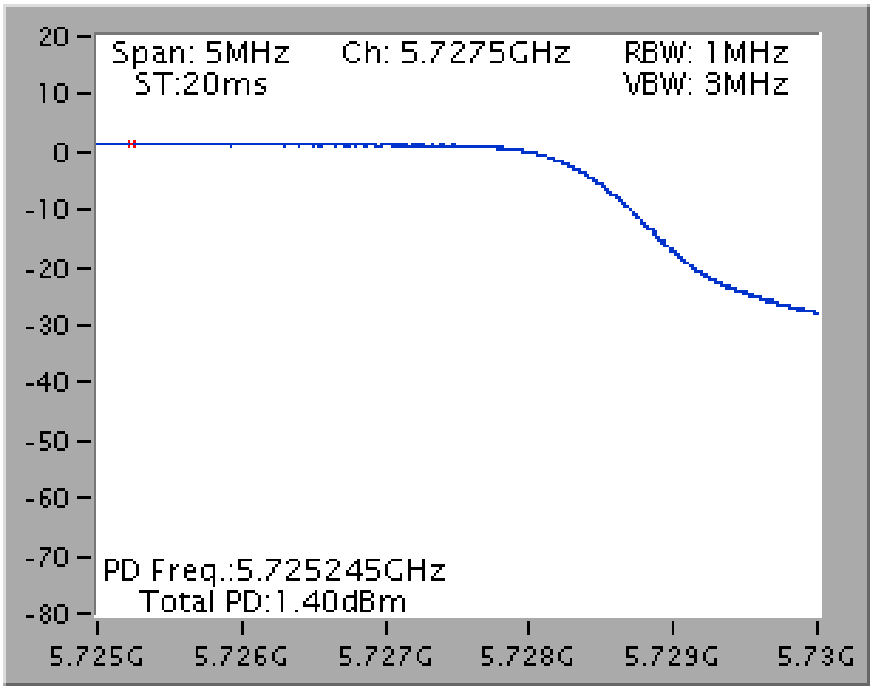
Power Density Plot on Chain 1 + Chain 2 / 5610 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)



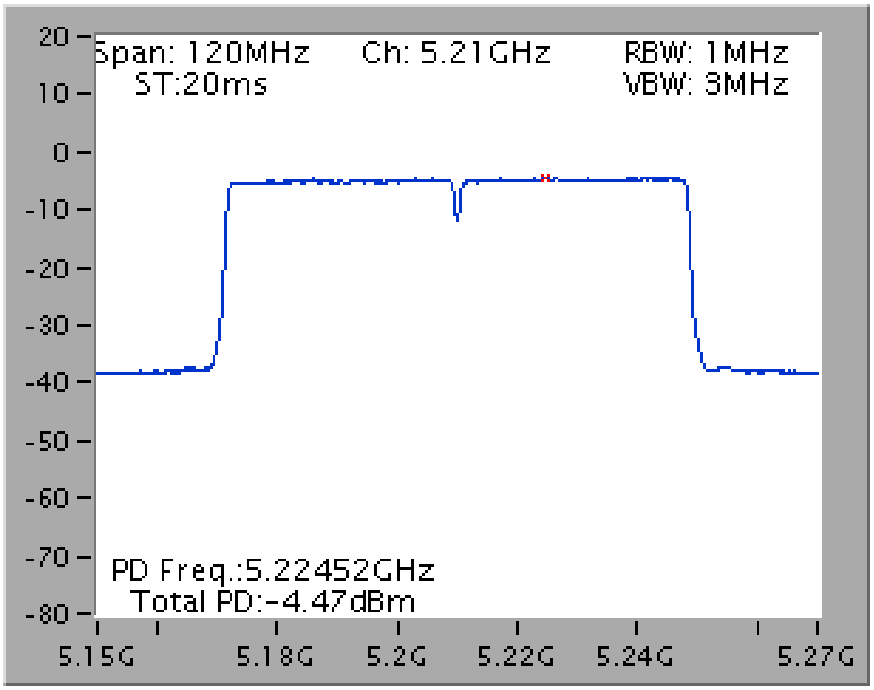
Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)



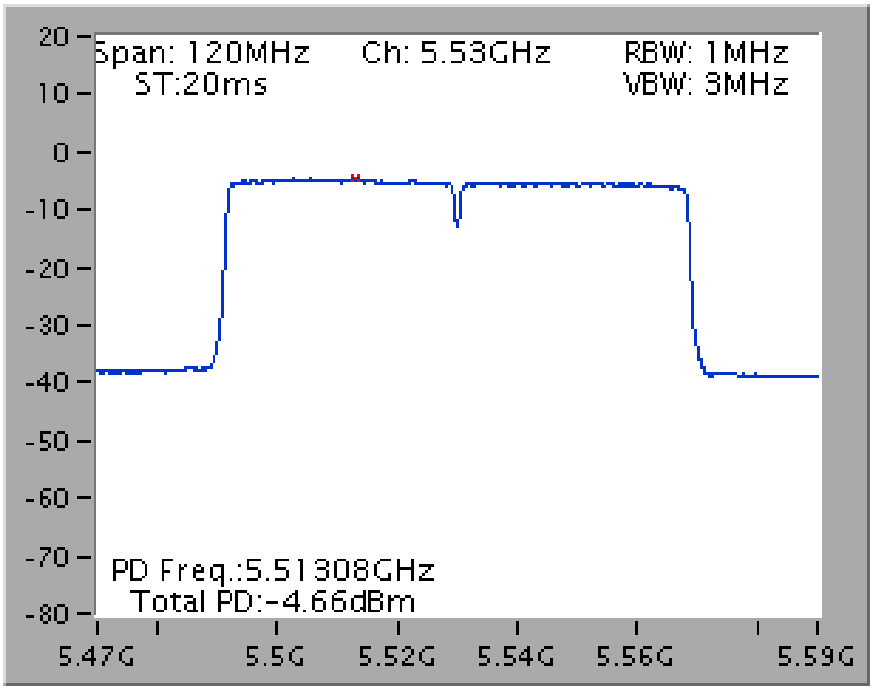
For outdoor use master B1

Type 1

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

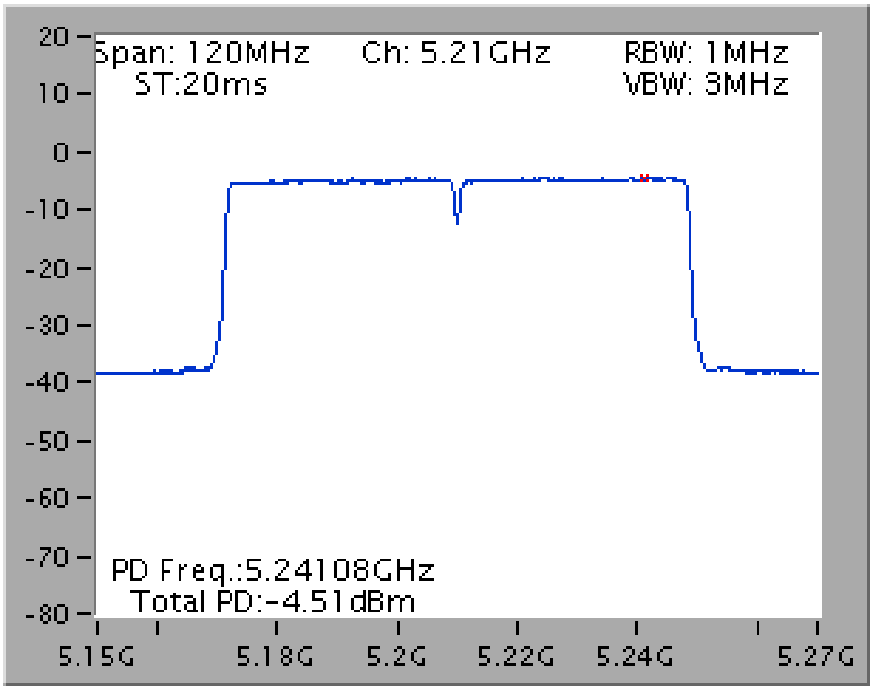


Power Density Plot on Chain 3 + Chain 4 / 5530 MHz

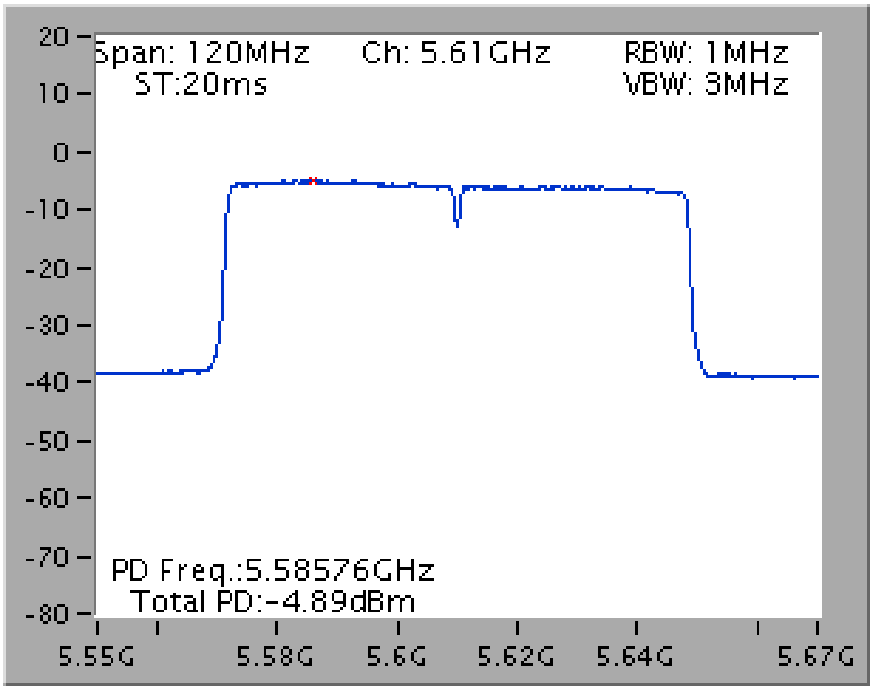


Type 2

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

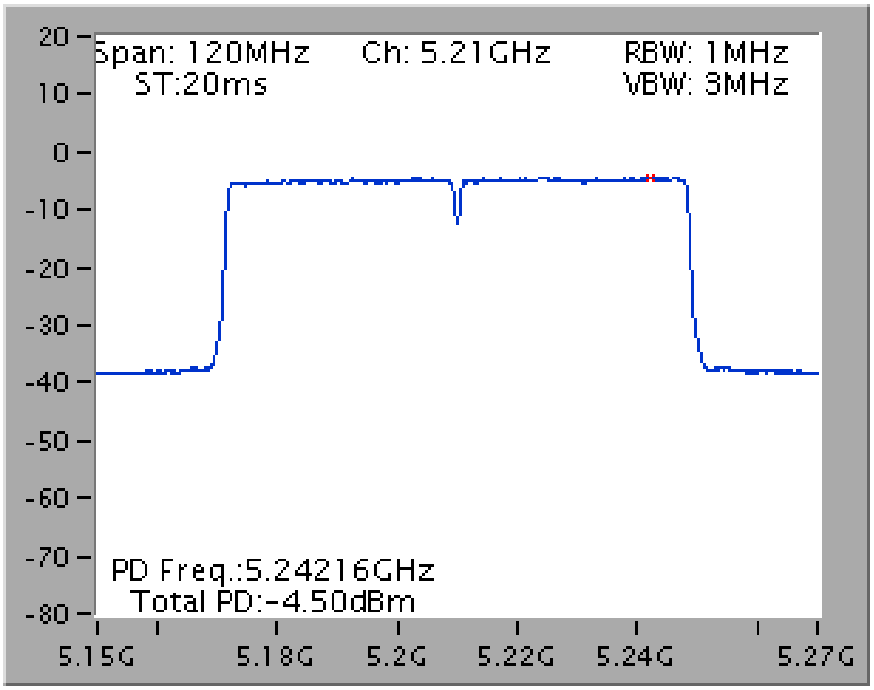


Power Density Plot on Chain 3 + Chain 4 / 5610 MHz

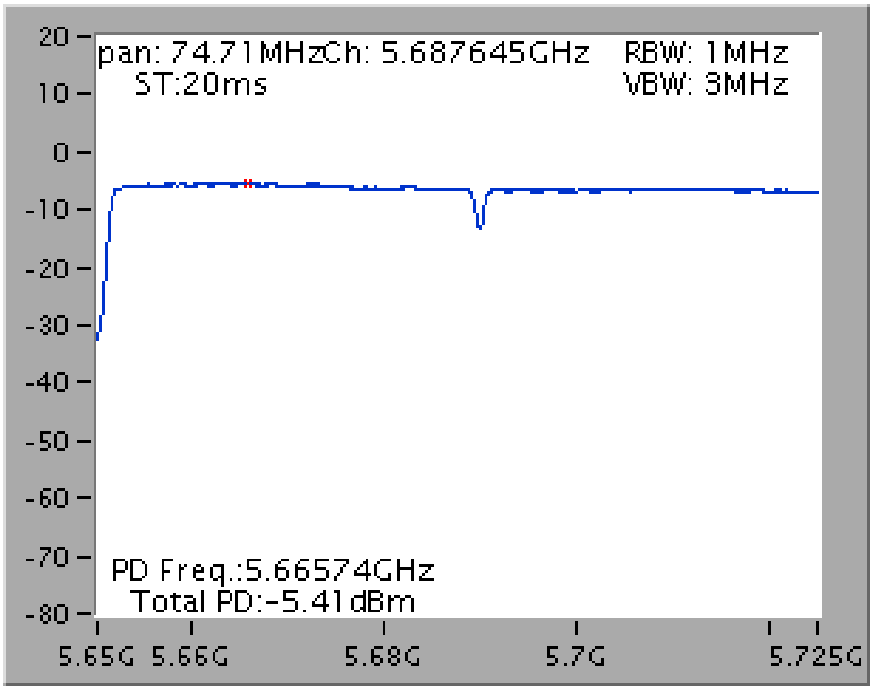


Type 3

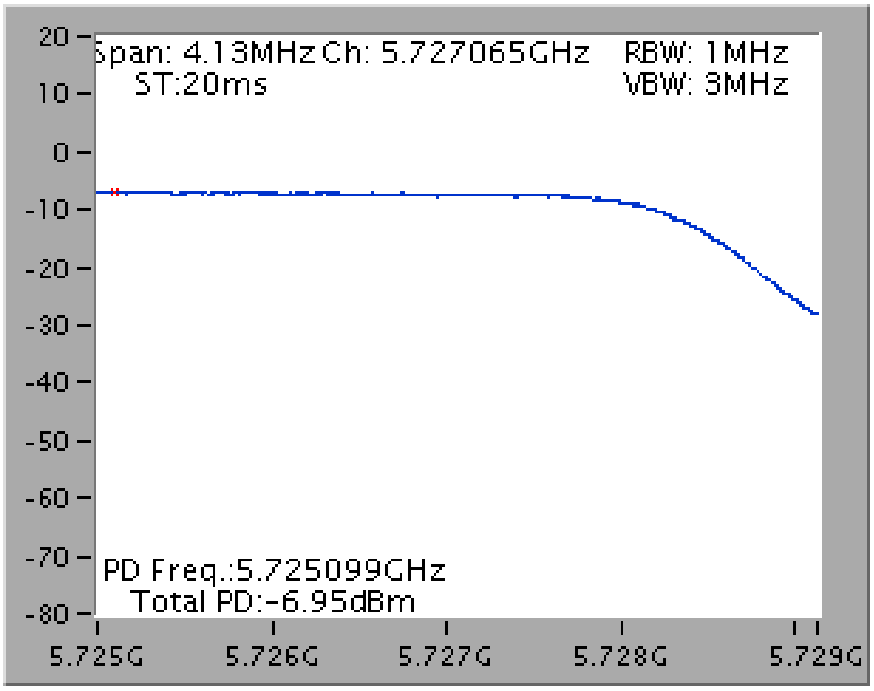
Power Density Plot on Chain 1 + Chain 2 / 5210 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

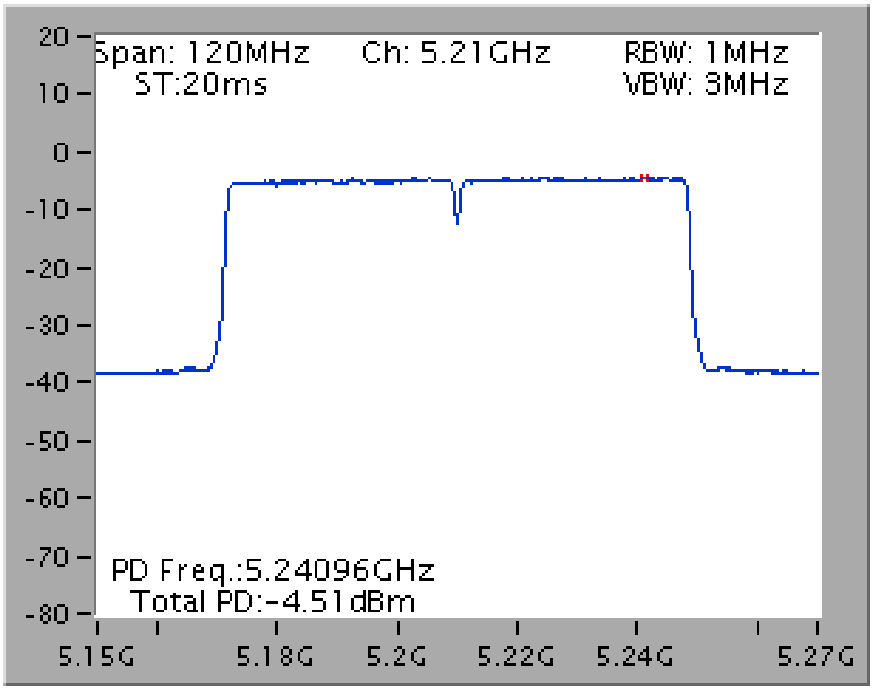


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

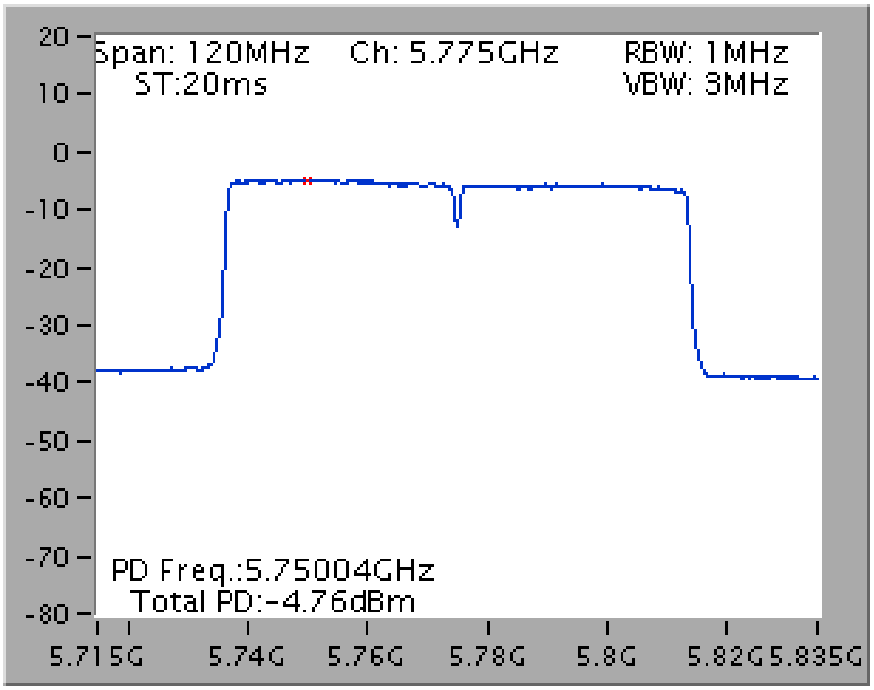


Type 4

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

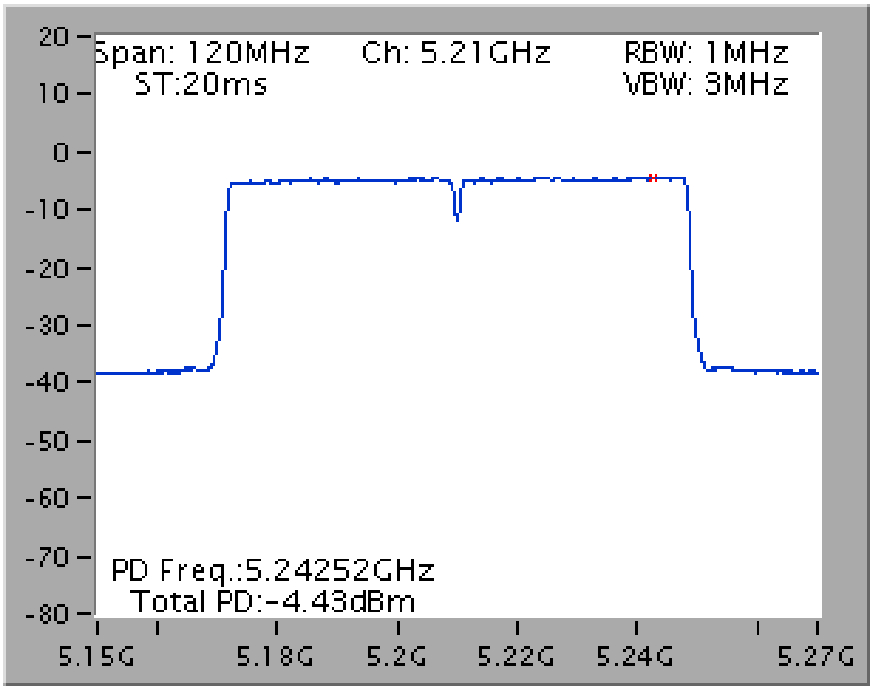


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

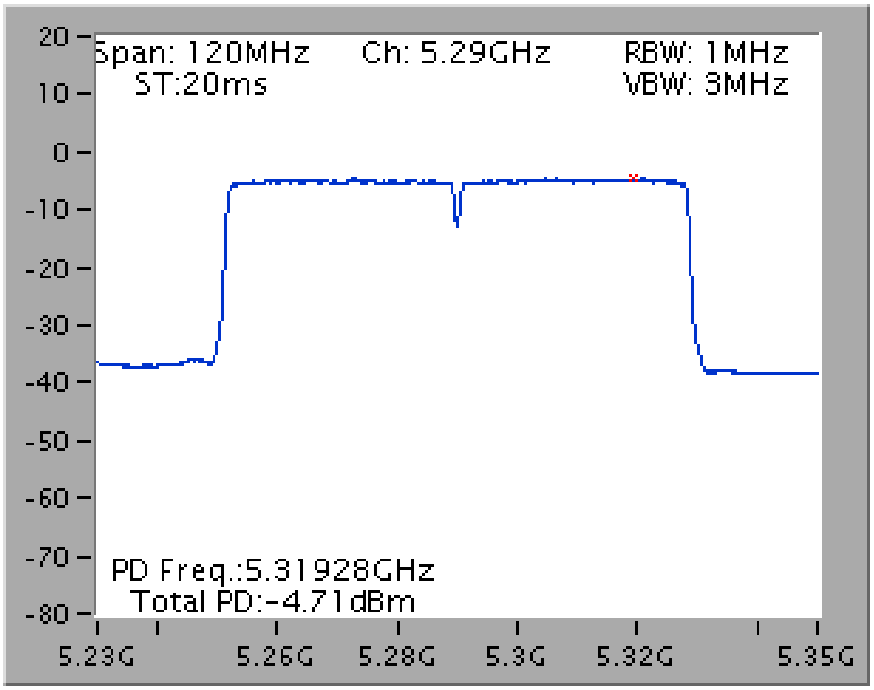


Type 13

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz



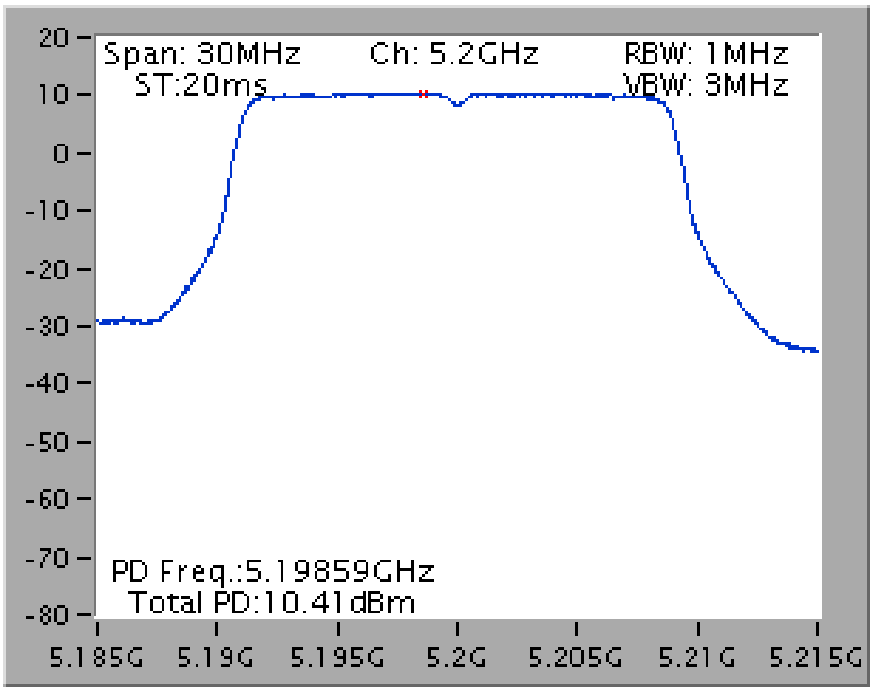
Power Density Plot on Chain 3 + Chain 4 / 5290 MHz



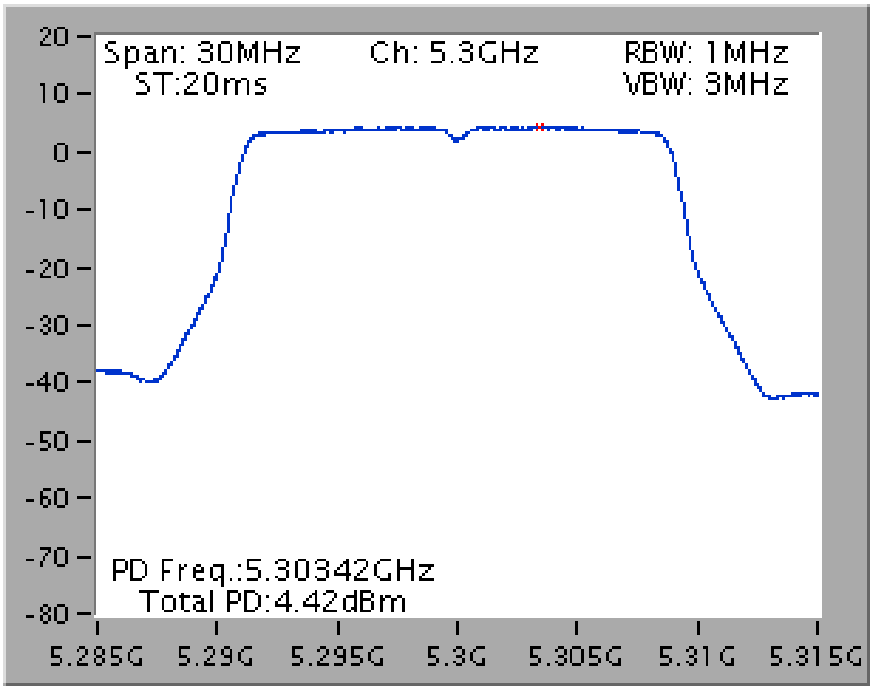
For beamforming mode

For indoor use master B1 and indoor, outdoor use B2~B4

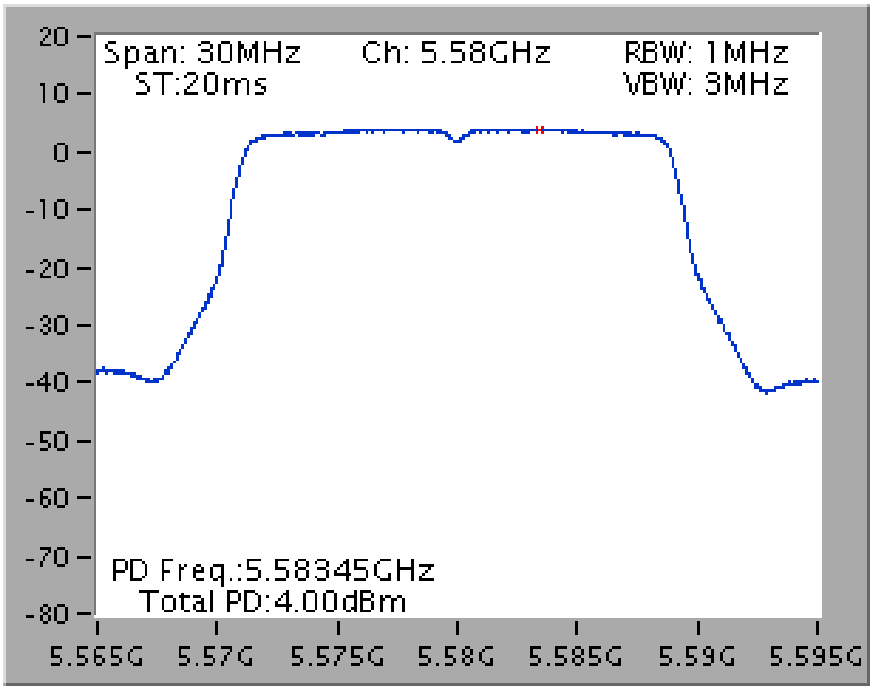
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5200 MHz



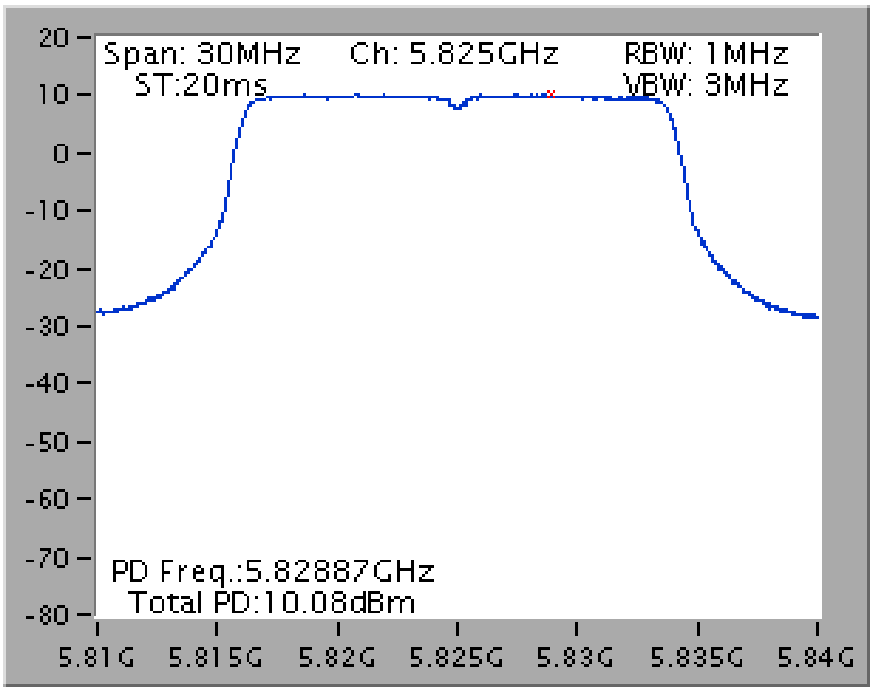
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5300 MHz



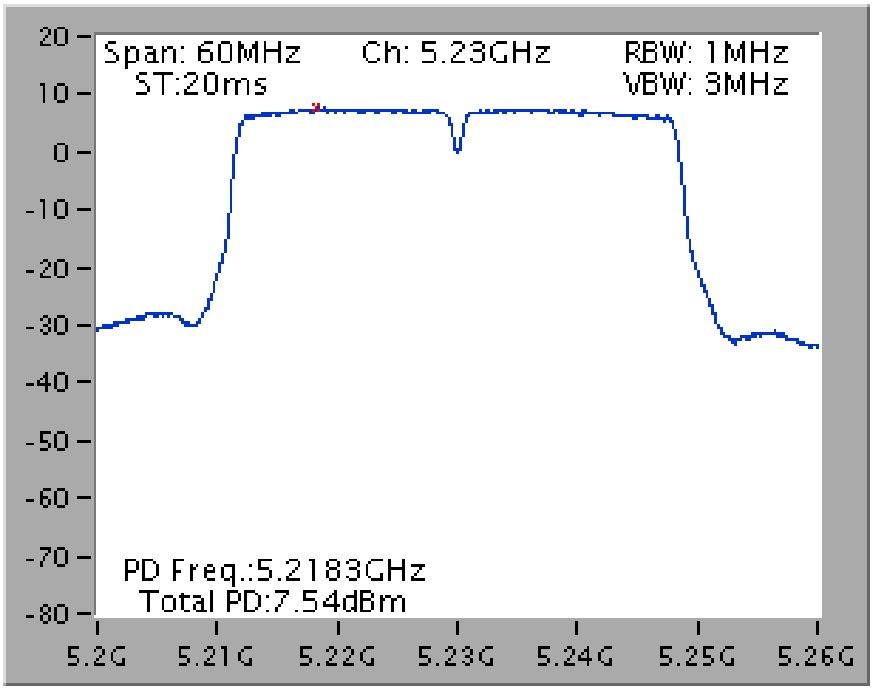
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5580 MHz



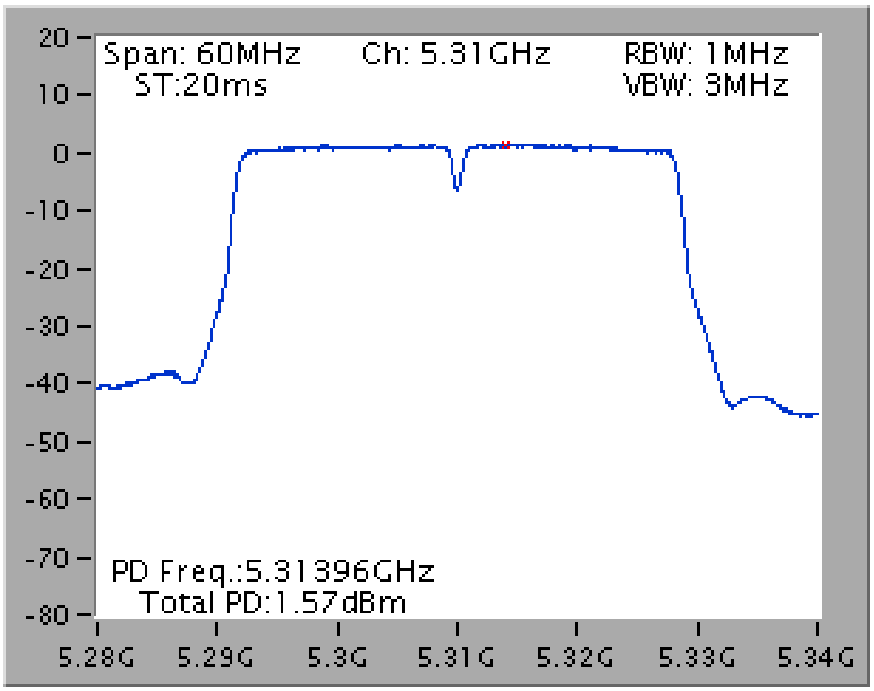
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5825 MHz



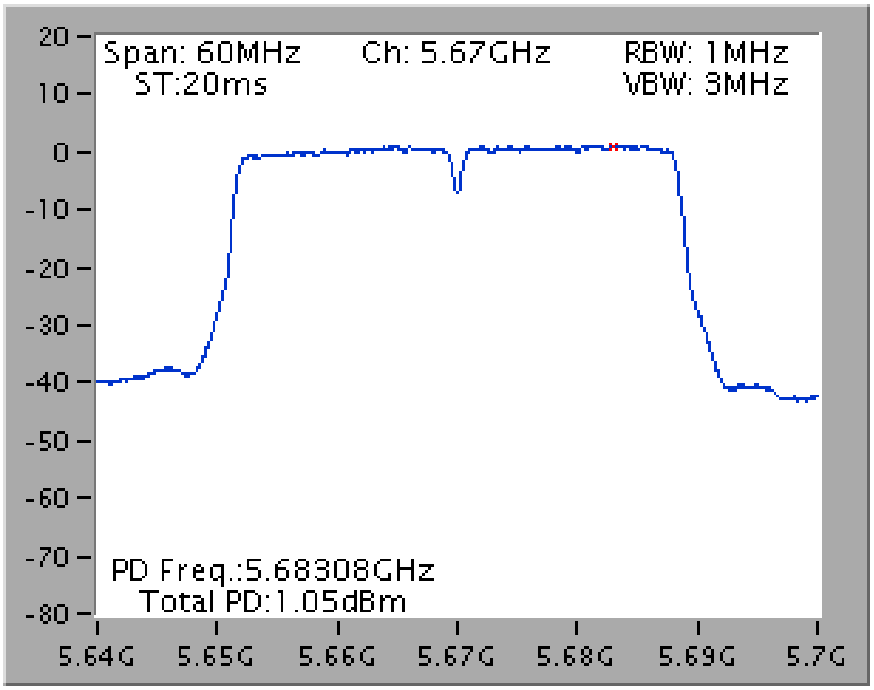
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



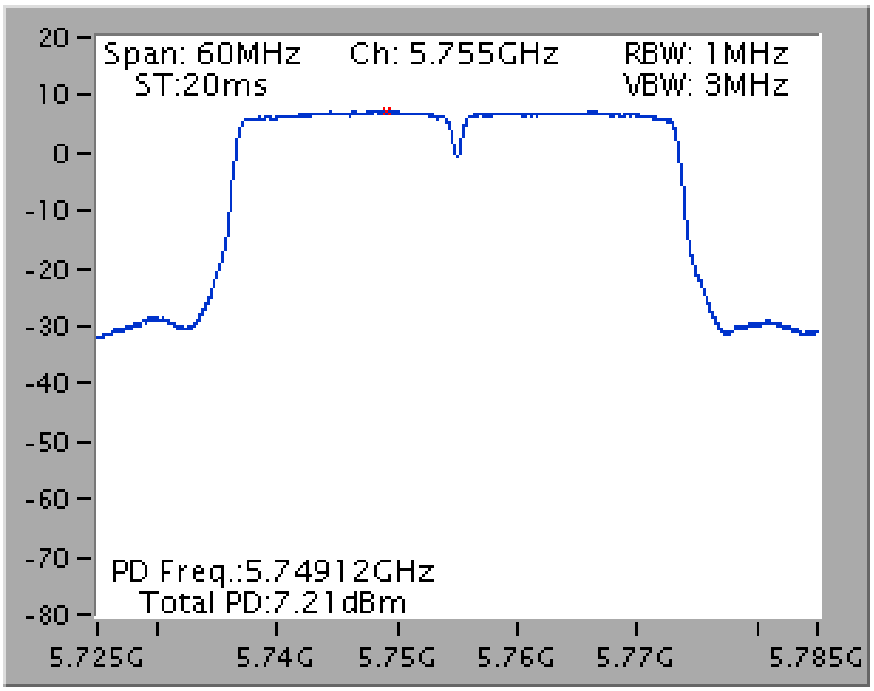
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5310 MHz



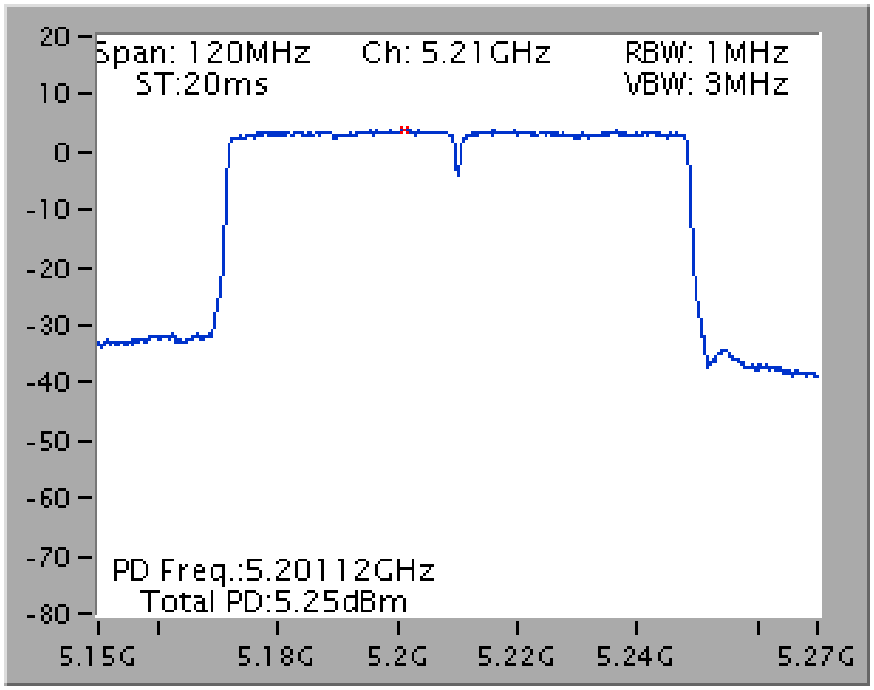
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5670 MHz



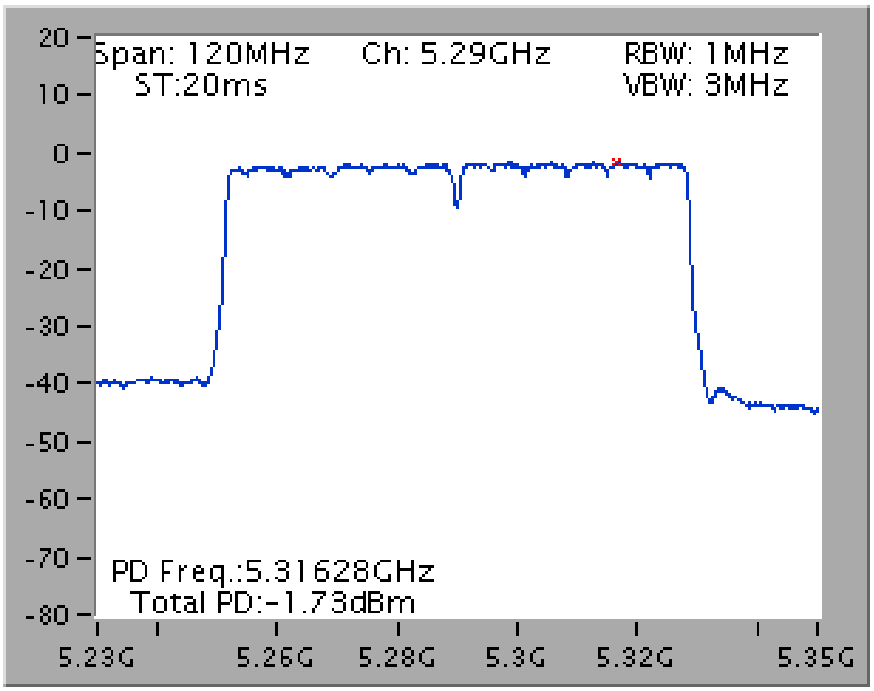
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5755 MHz



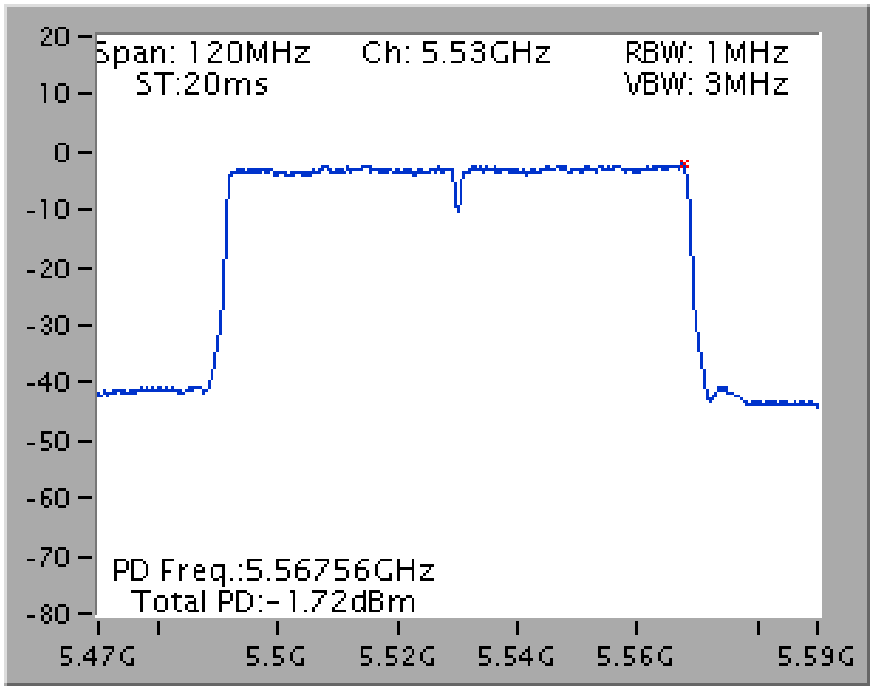
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz



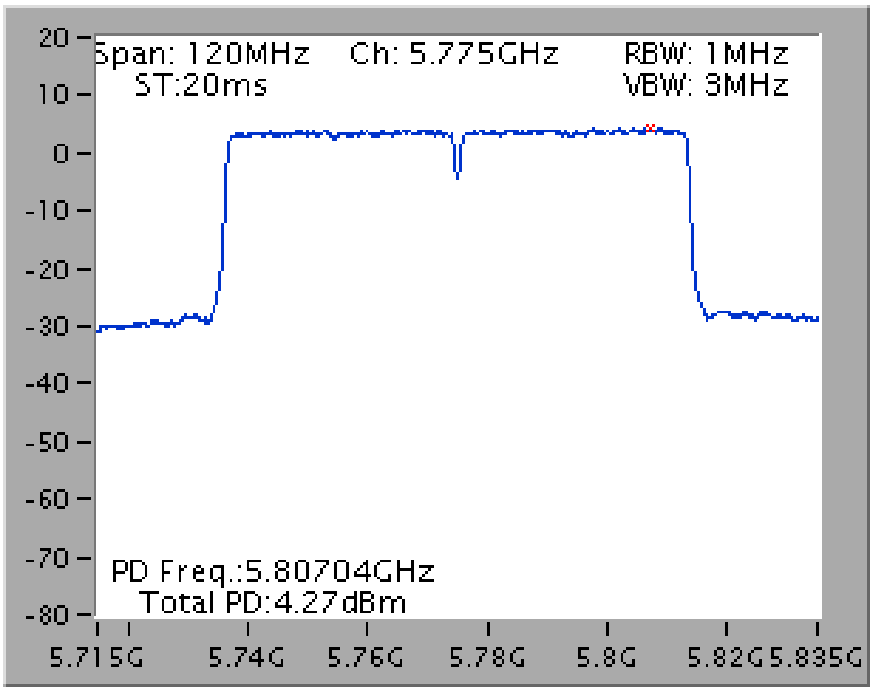
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5290 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5530 MHz

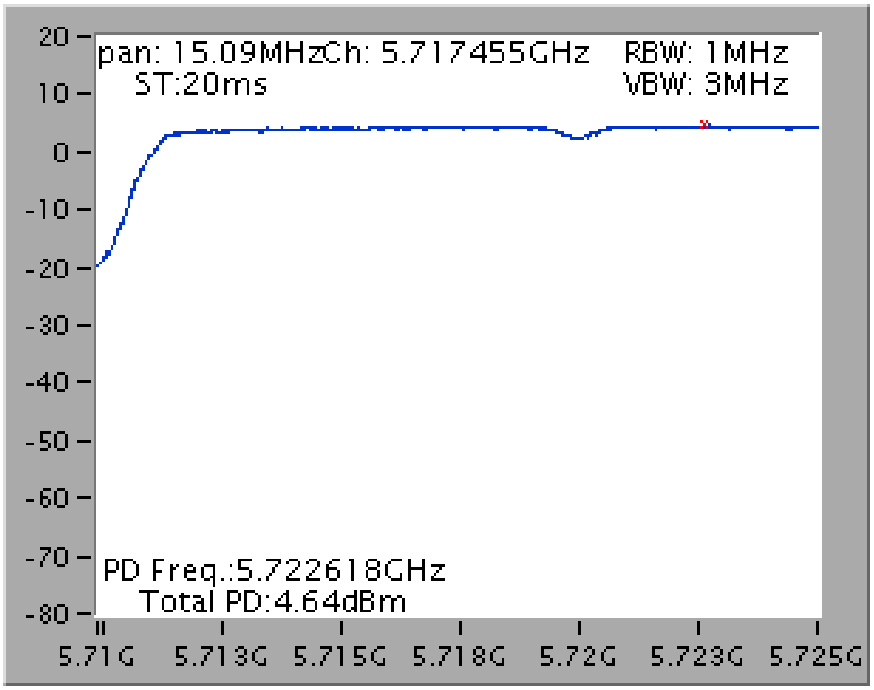


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5775 MHz

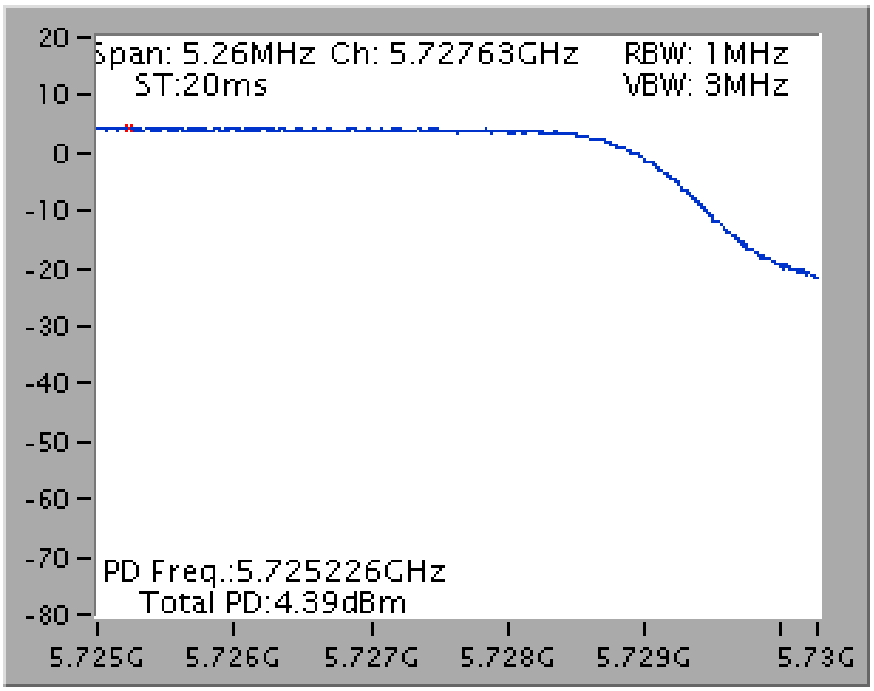


Straddle Channel

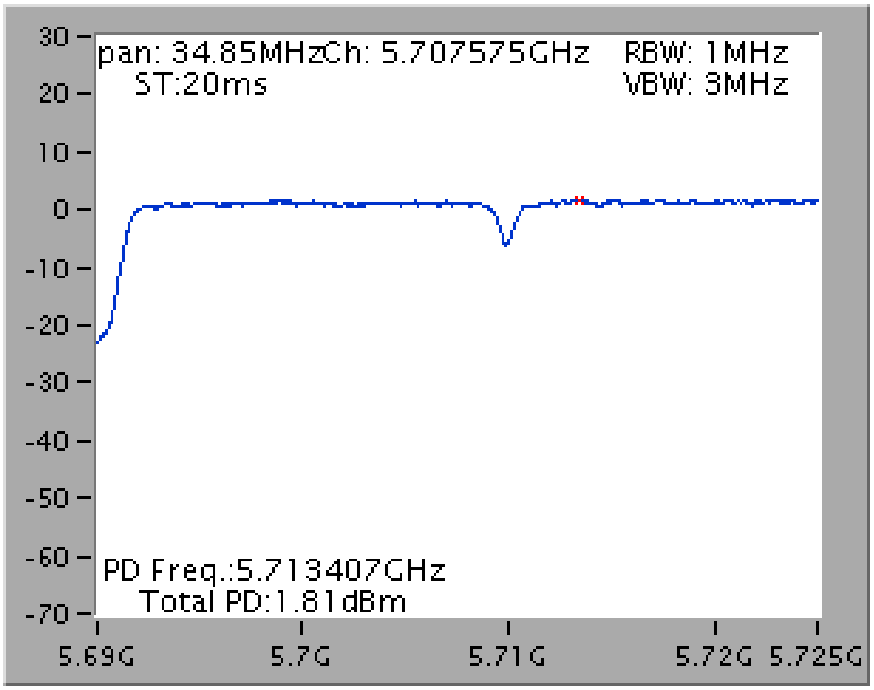
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 2C)



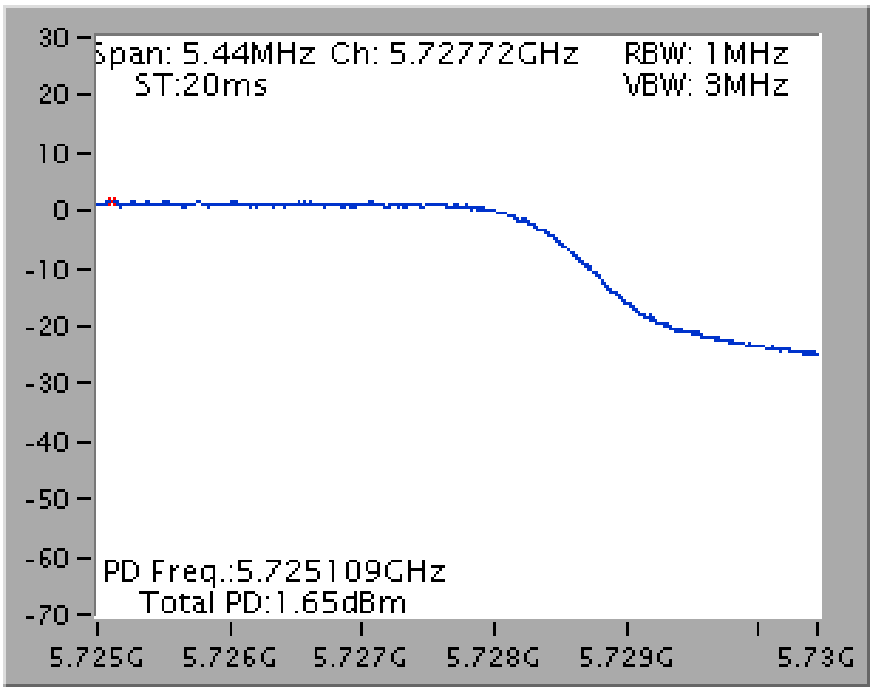
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5720 MHz (UNII 3)



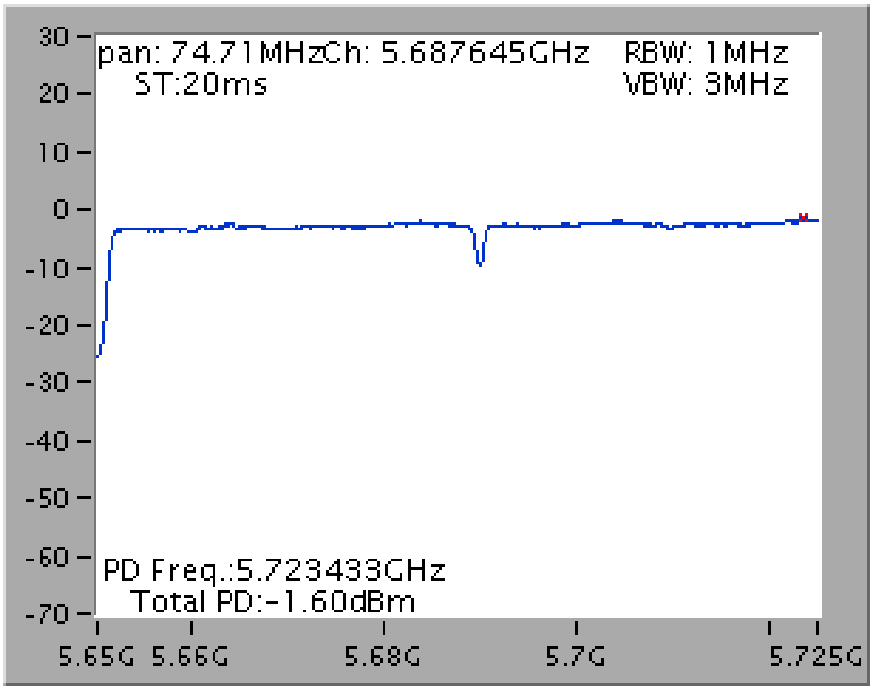
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 2C)



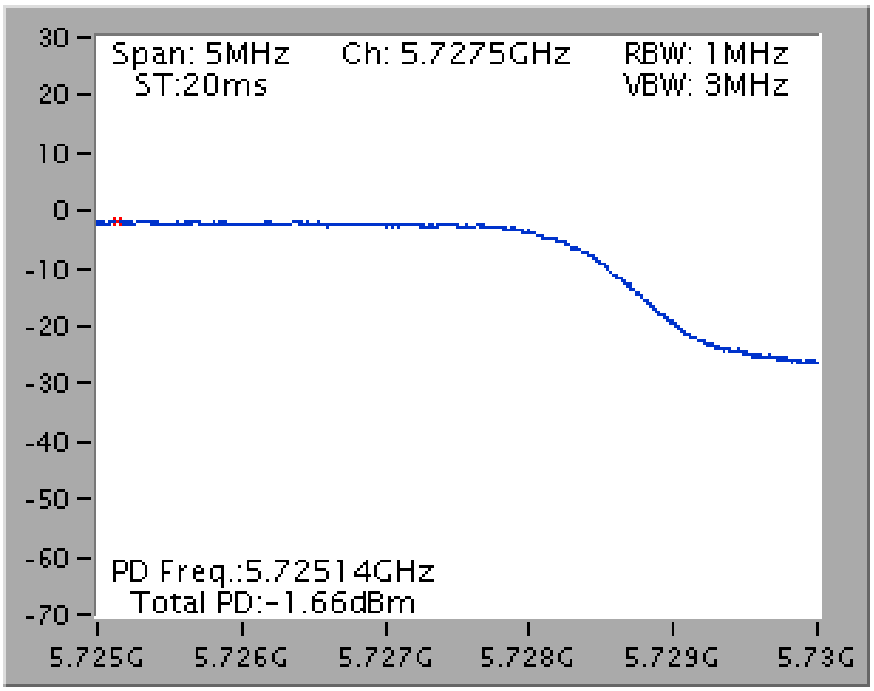
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5710 MHz (UNII 3)



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

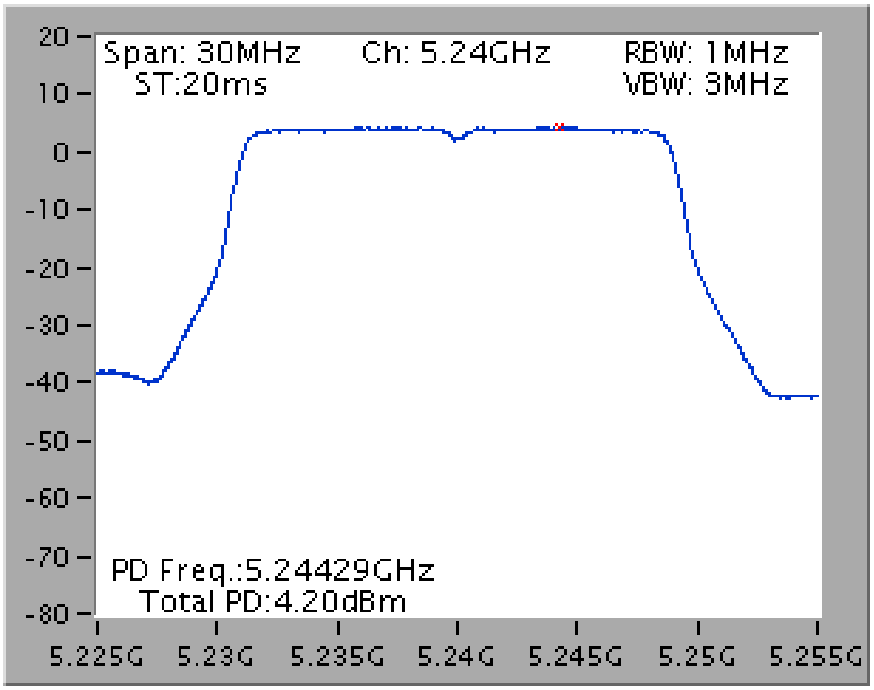


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5690 MHz (UNII 3)

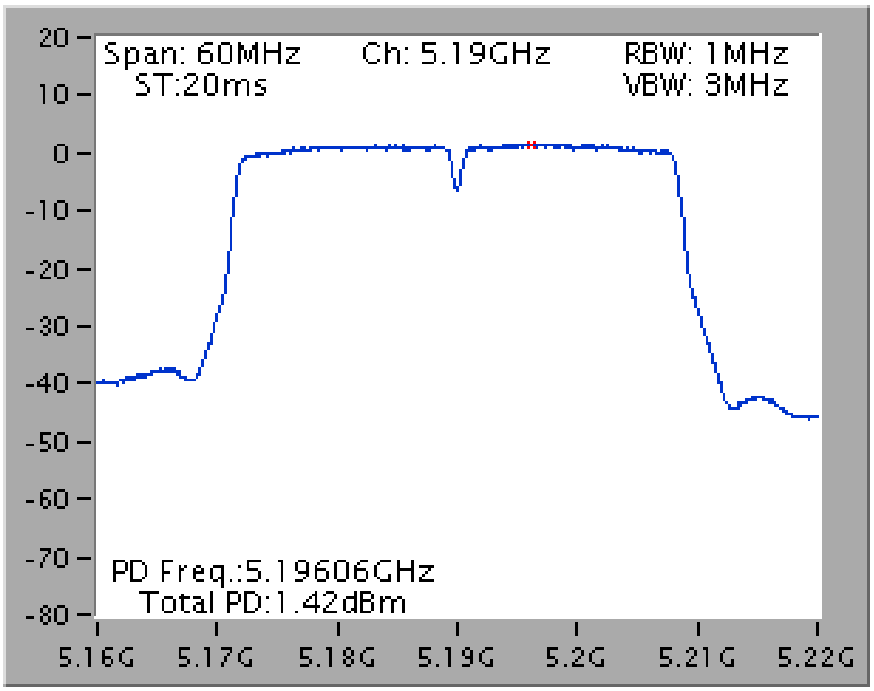


For indoor use slave without radar detection B1

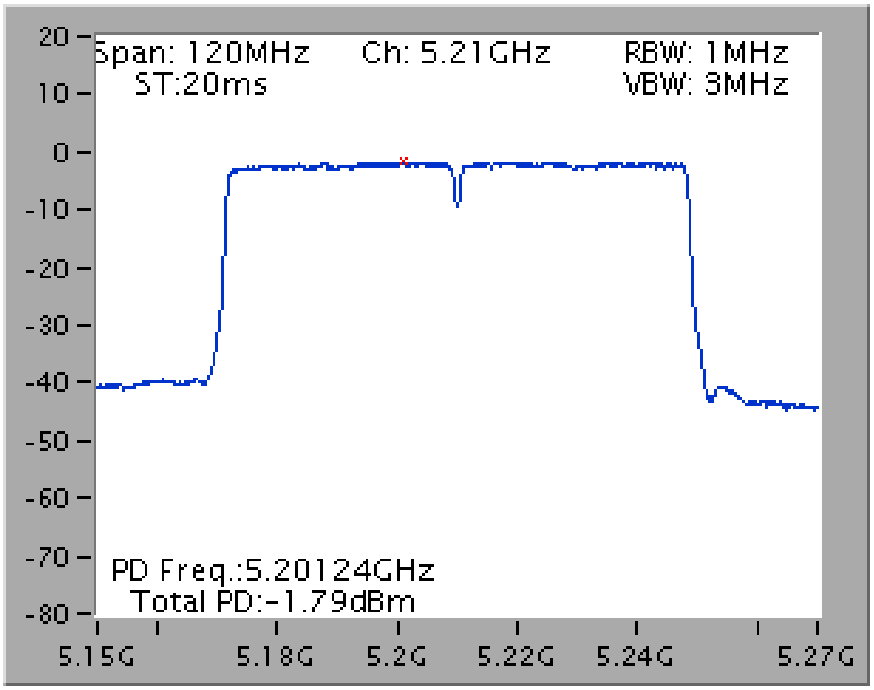
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5240 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5190 MHz

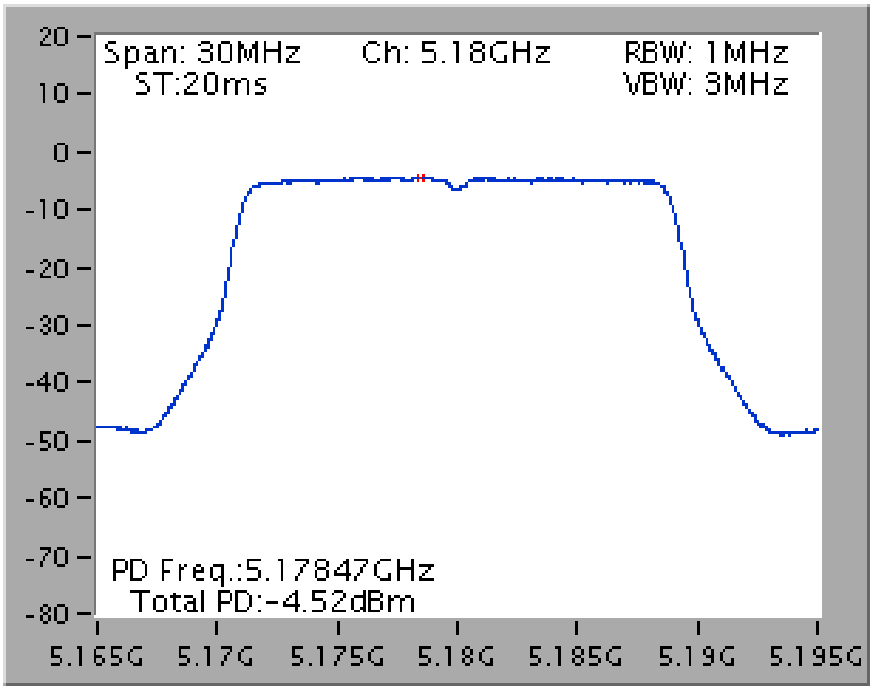


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz

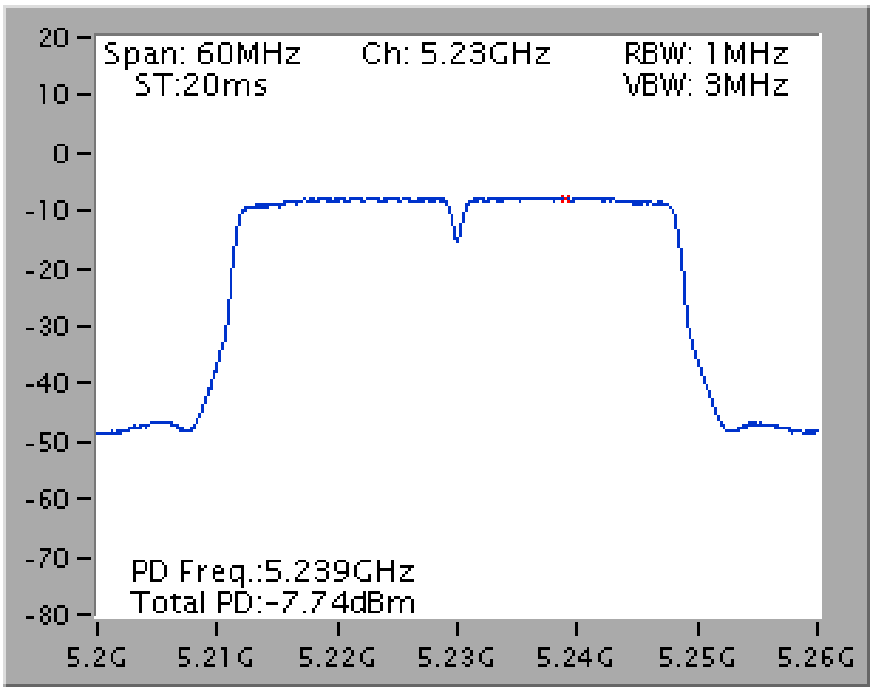


For outdoor use master B1

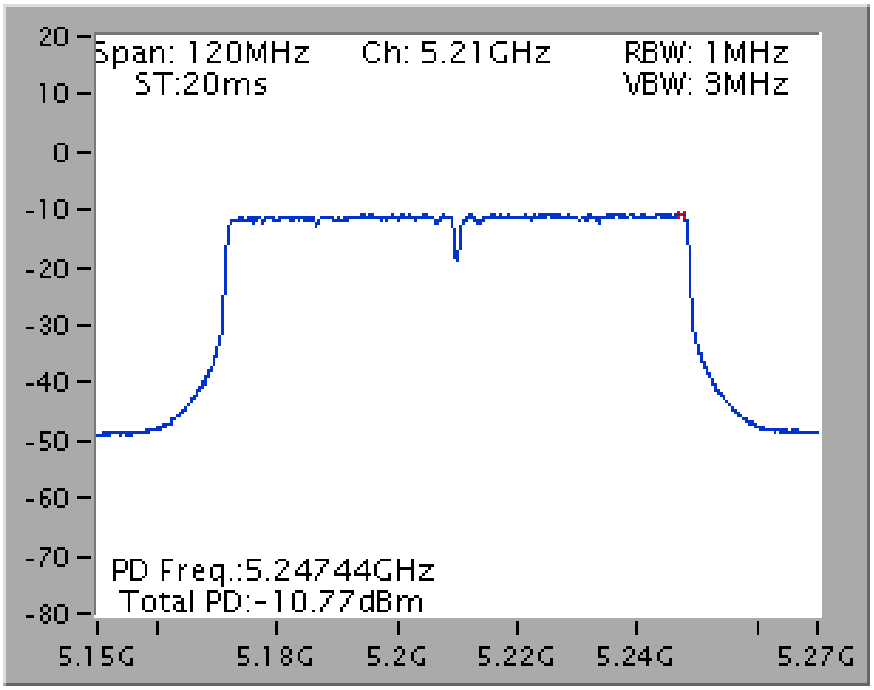
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5180 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5230 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 + Chain 3 + Chain 4 / 5210 MHz

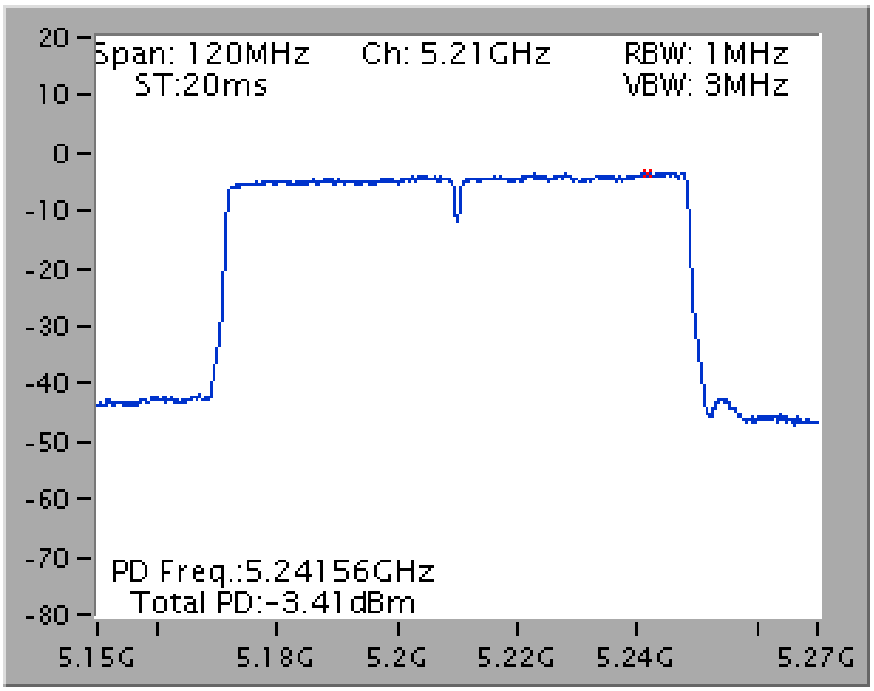


802.11ac MCS0/Nss2 VHT80+80

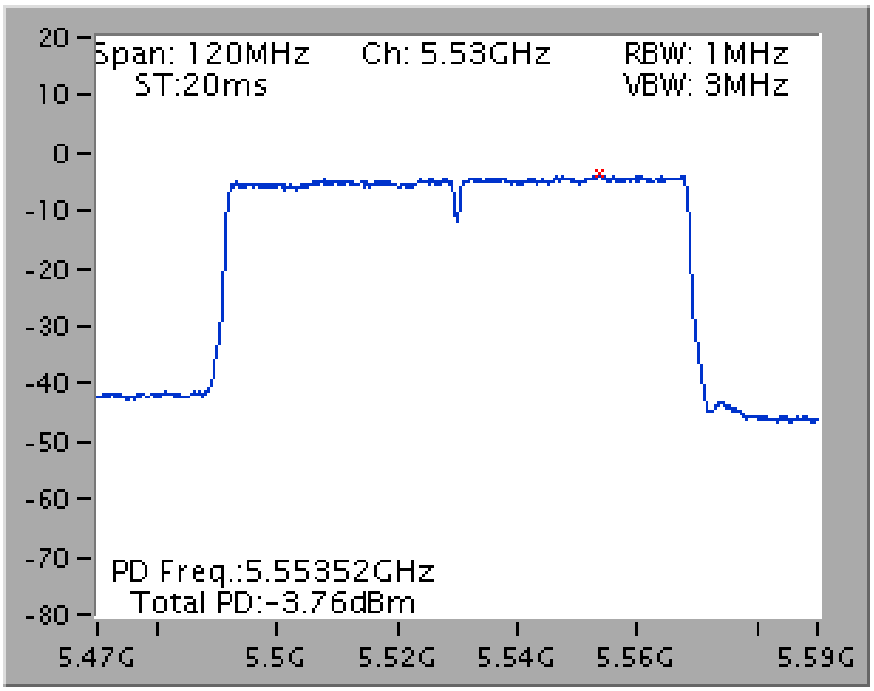
For indoor use master and slave without radar detection type1~4 and type13

Type 1

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

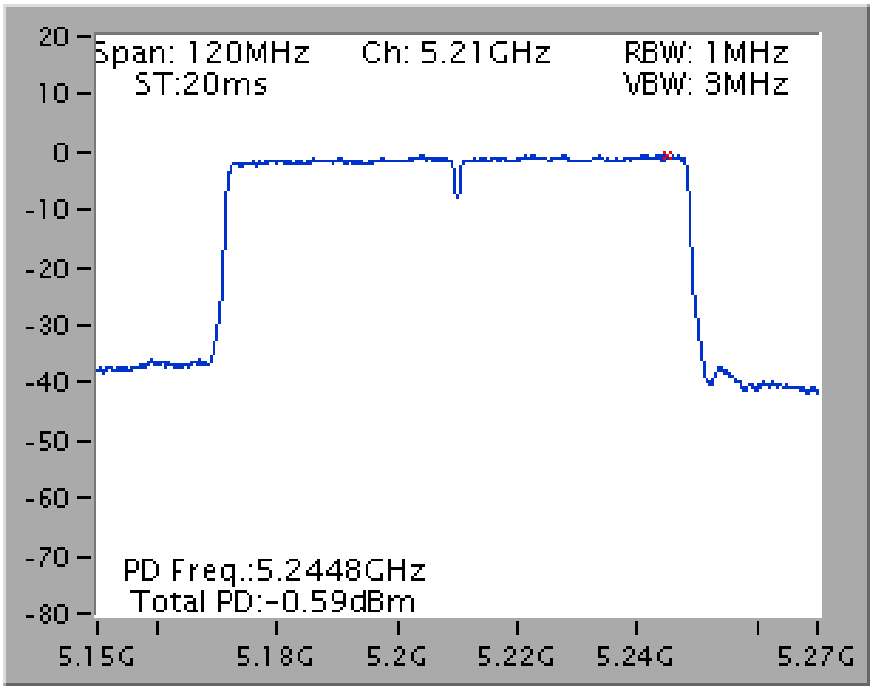


Power Density Plot on Chain 3 + Chain 4 / 5530 MHz

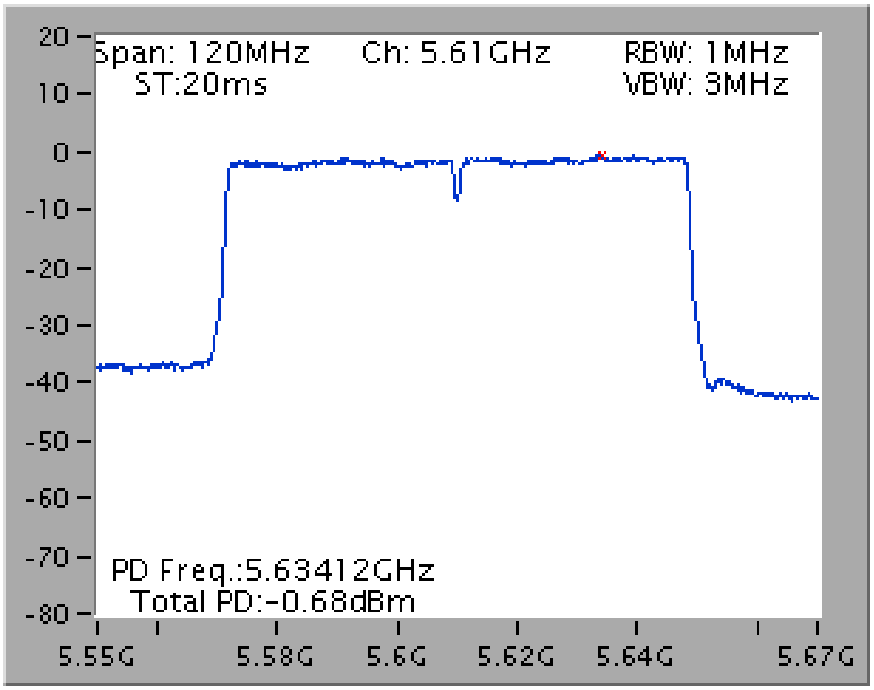


Type 2

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

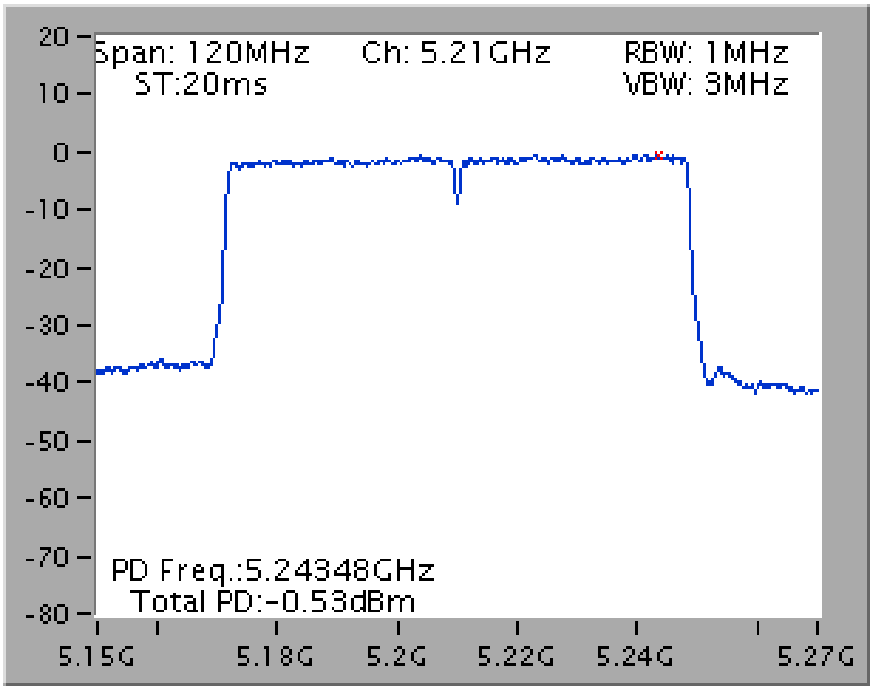


Power Density Plot on Chain 3 + Chain 4 / 5610 MHz

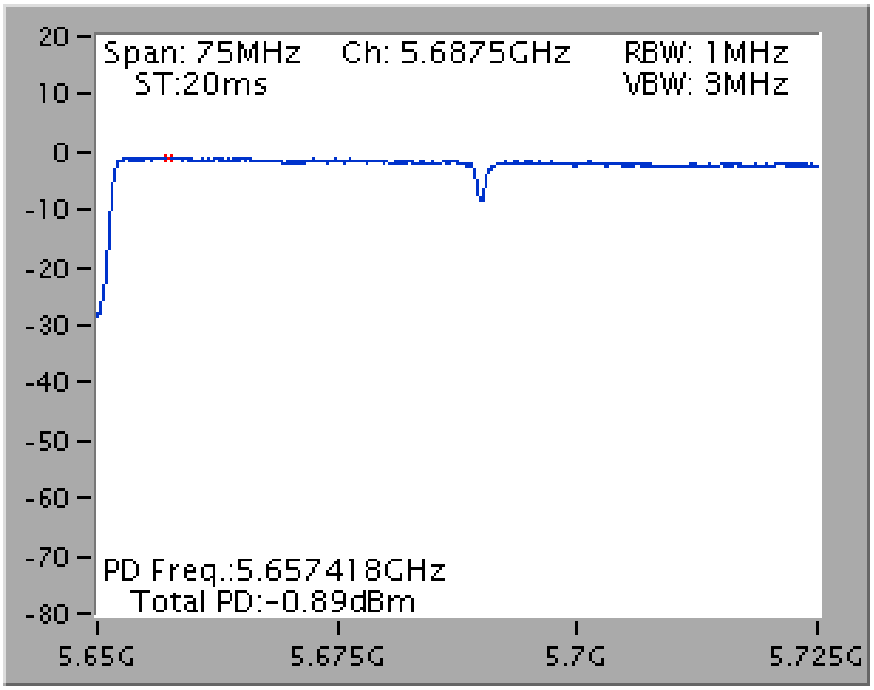


Type 3

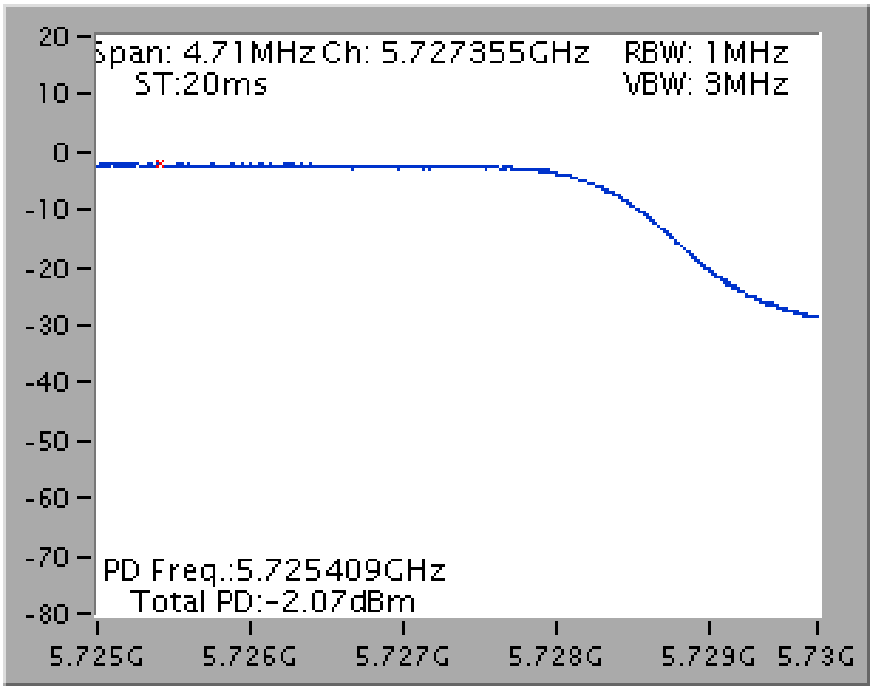
Power Density Plot on Chain 1 + Chain 2 / 5210 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

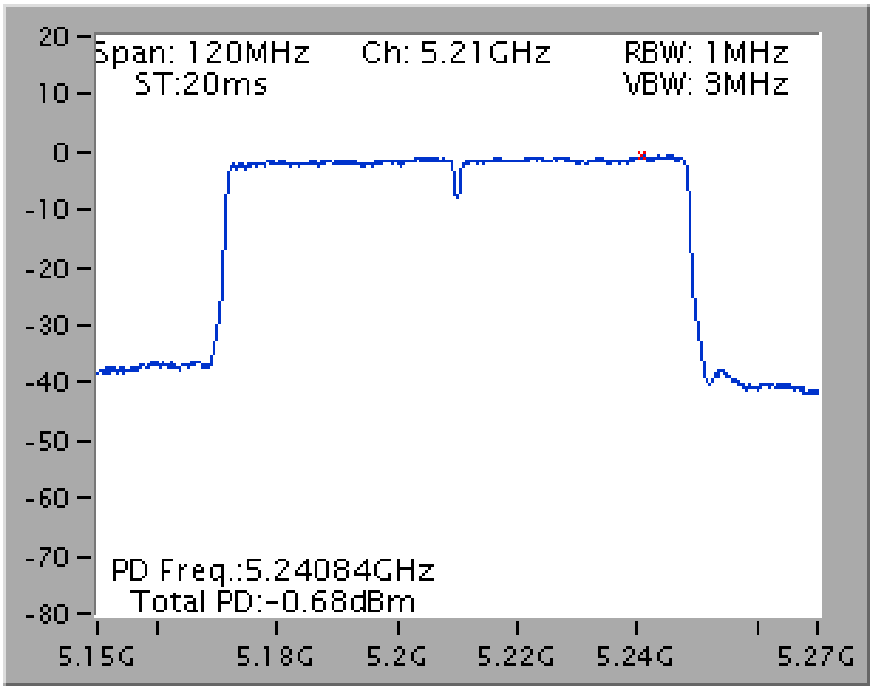


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

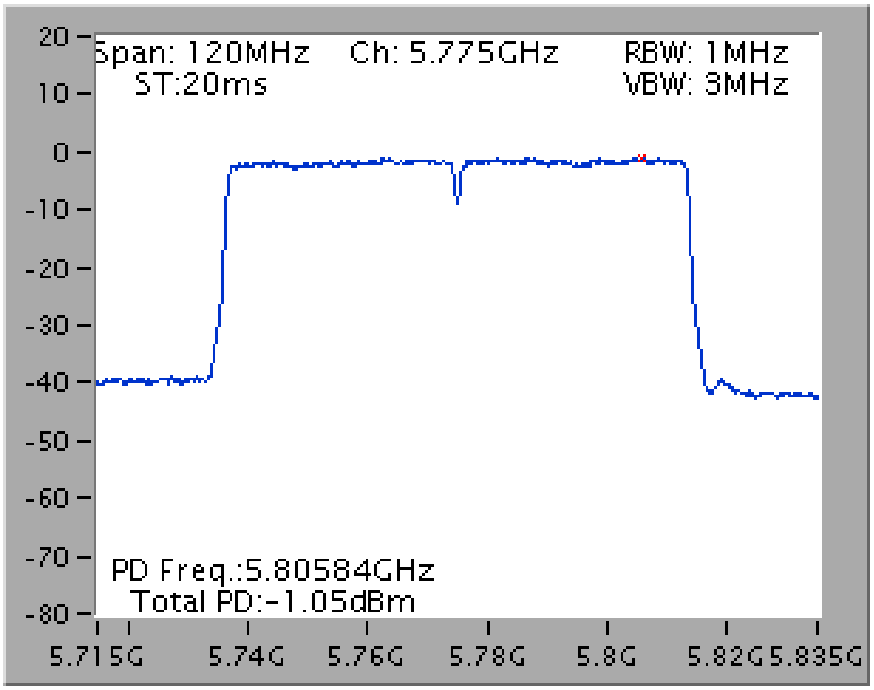


Type 4

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

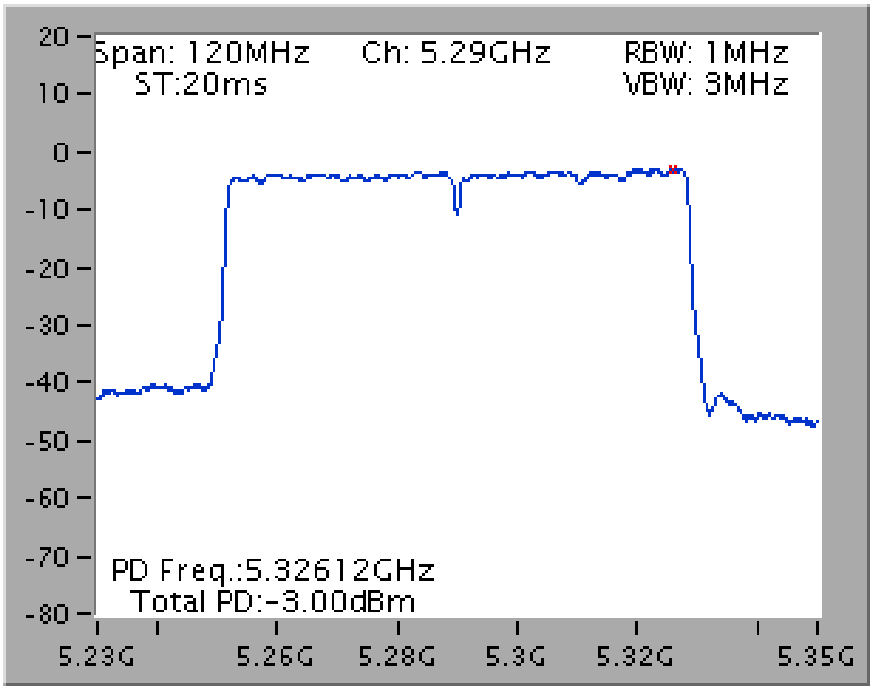


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

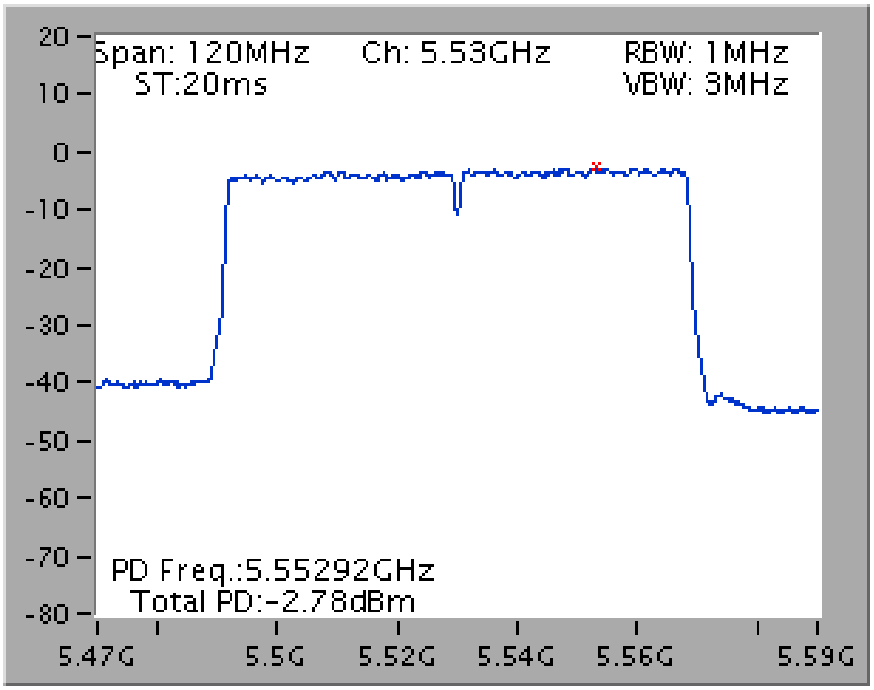


Type 5

Power Density Plot on Chain 1 + Chain 2 / 5290 MHz

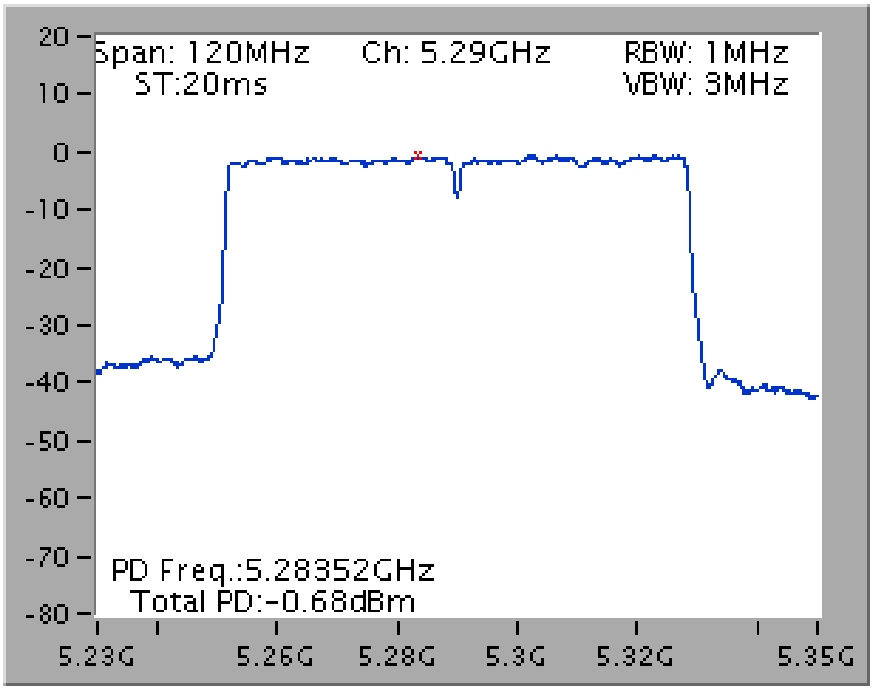


Power Density Plot on Chain 3 + Chain 4 / 5530 MHz

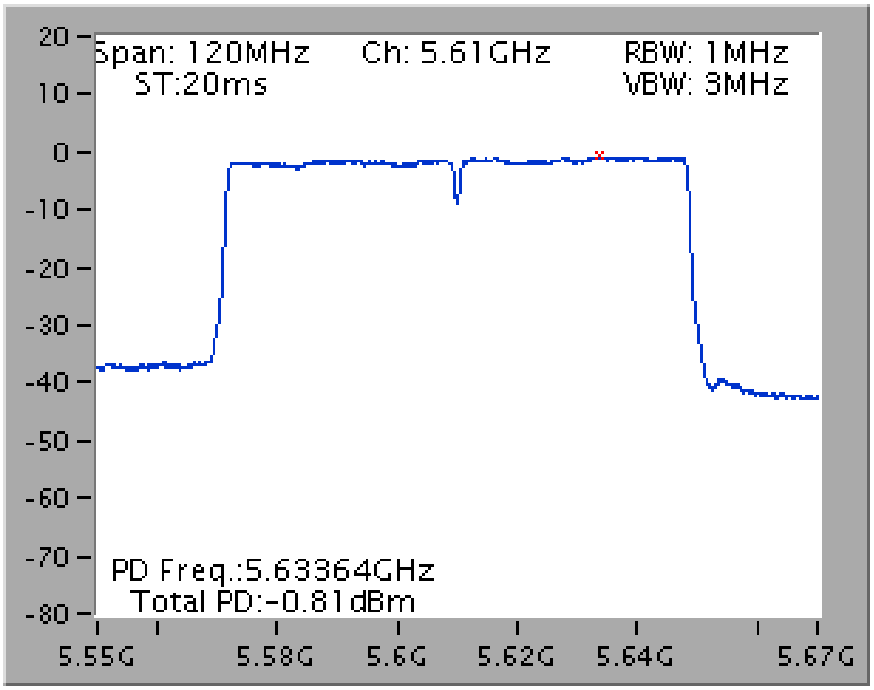


Type 6

Power Density Plot on Chain 1 + Chain 2 / 5290 MHz

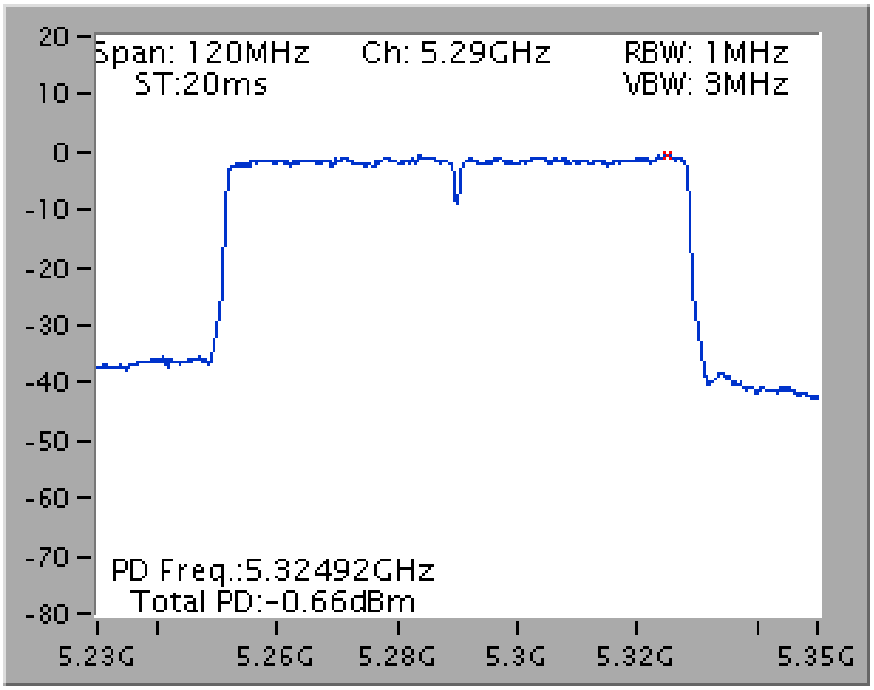


Power Density Plot on Chain 3 + Chain 4 / 5610 MHz

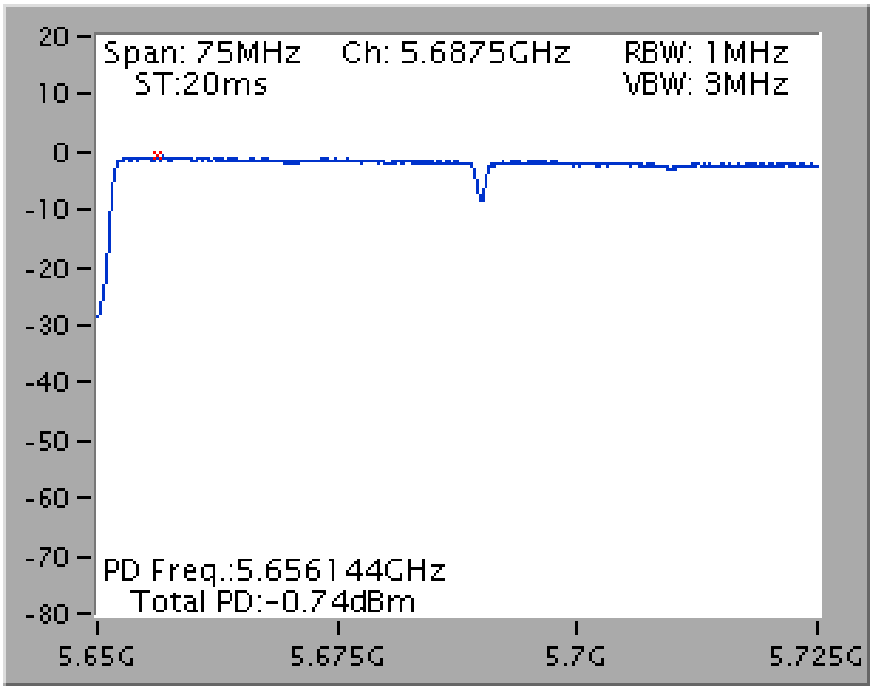


Type 7

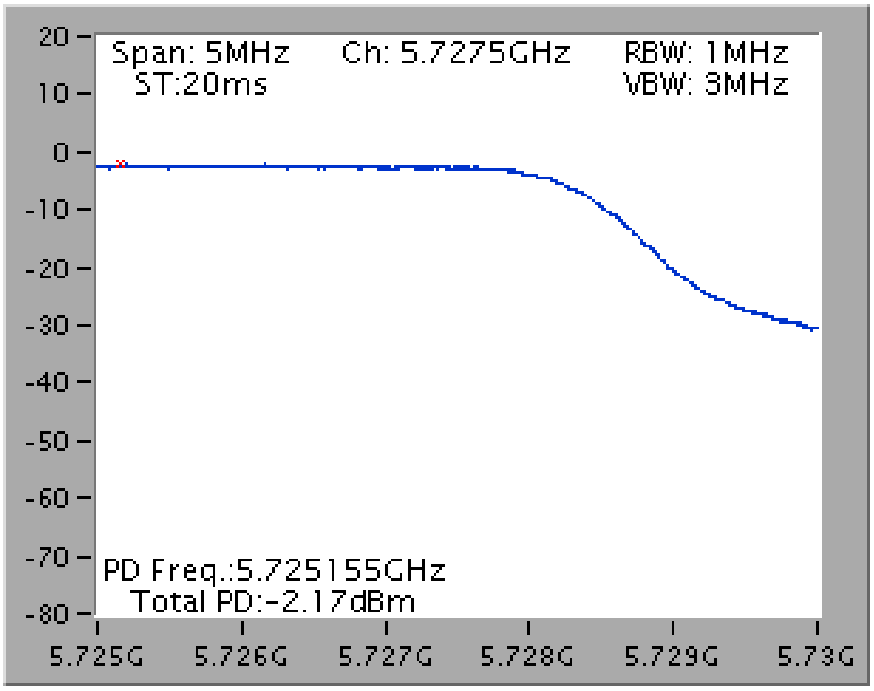
Power Density Plot on Chain 1 + Chain 2 / 5290 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

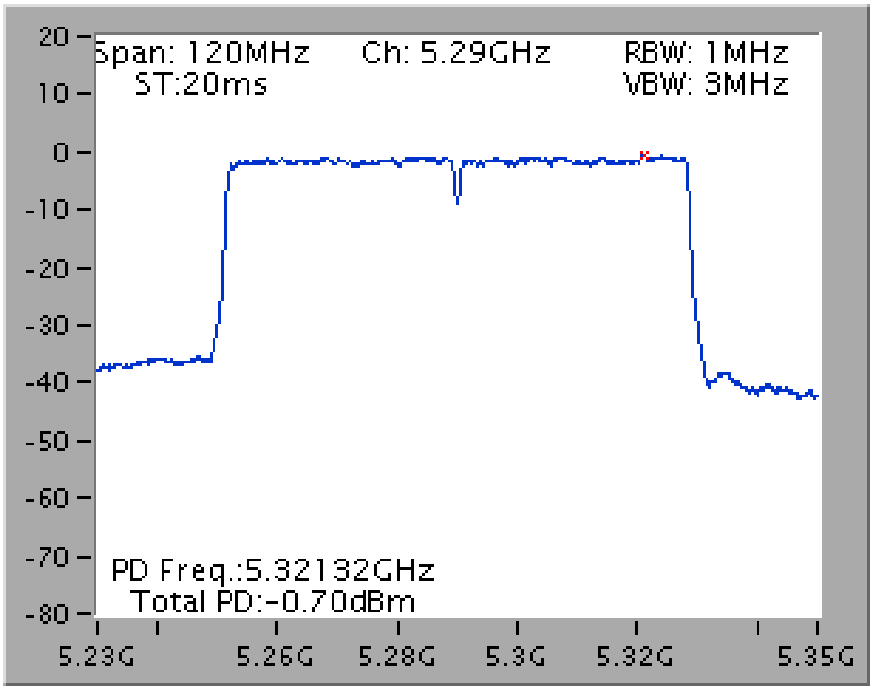


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

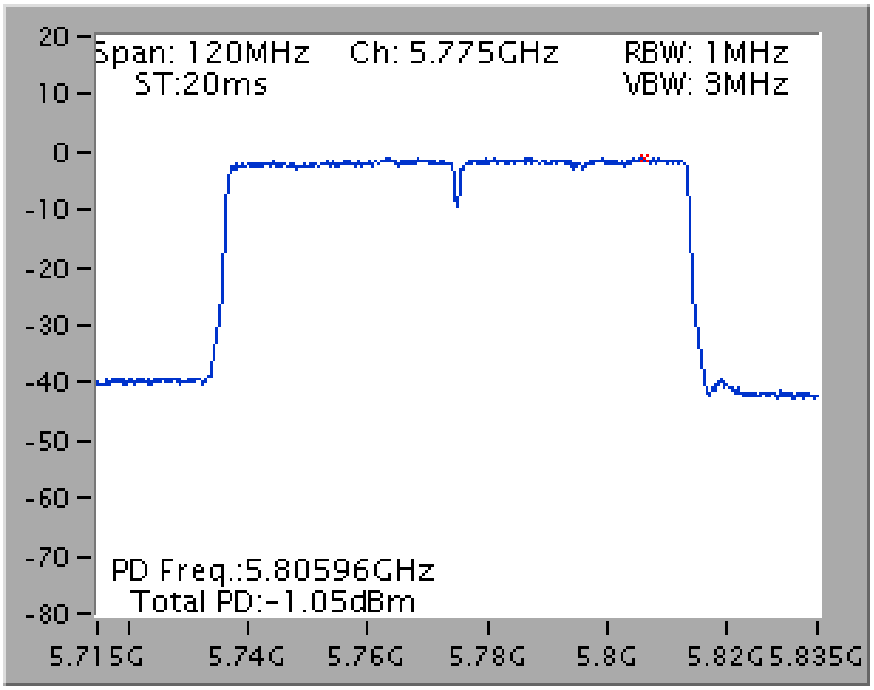


Type 8

Power Density Plot on Chain 1 + Chain 2 / 5290 MHz

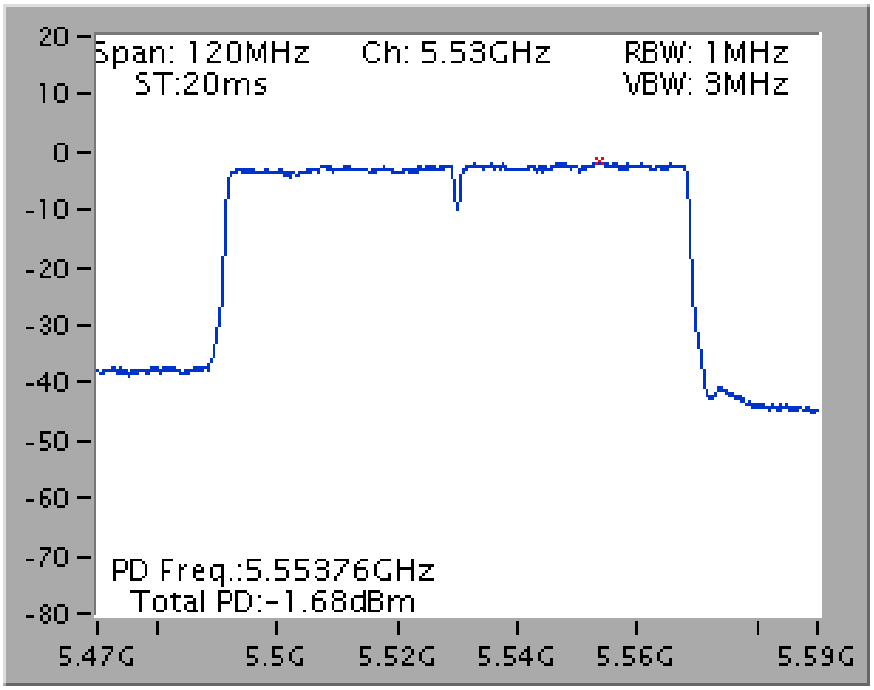


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

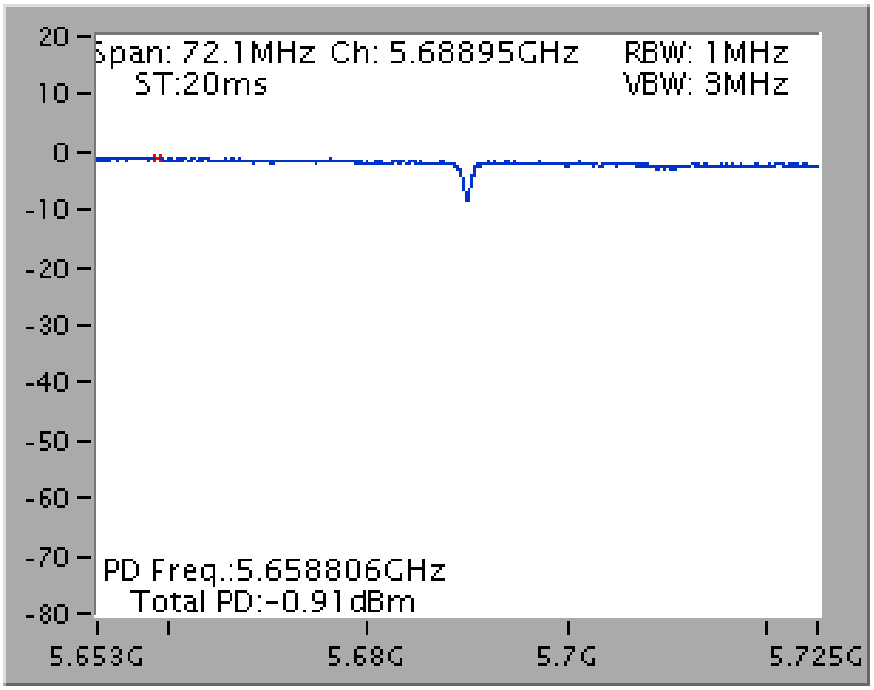


Type 9

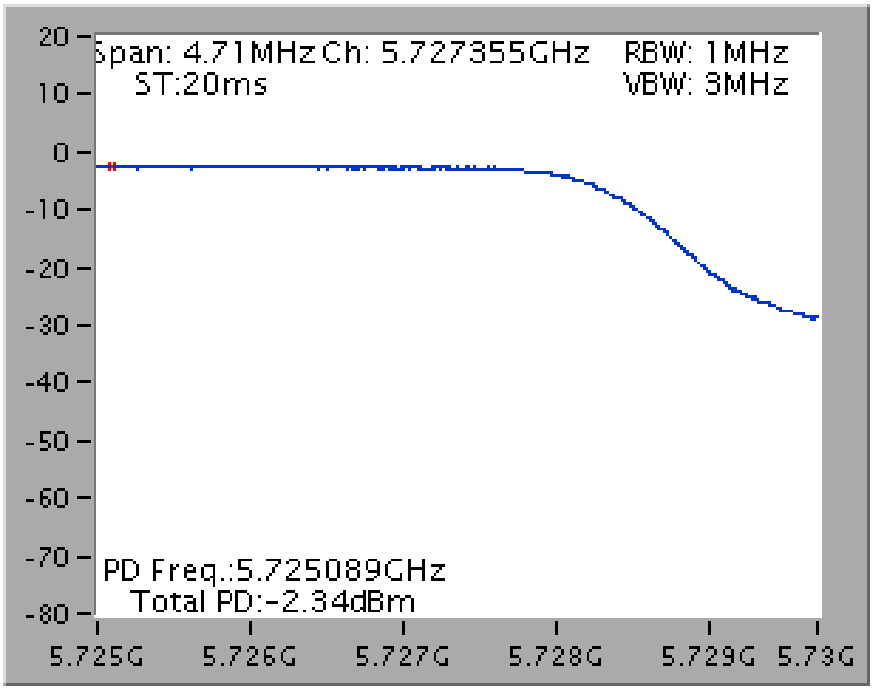
Power Density Plot on Chain 1 + Chain 2 / 5530 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

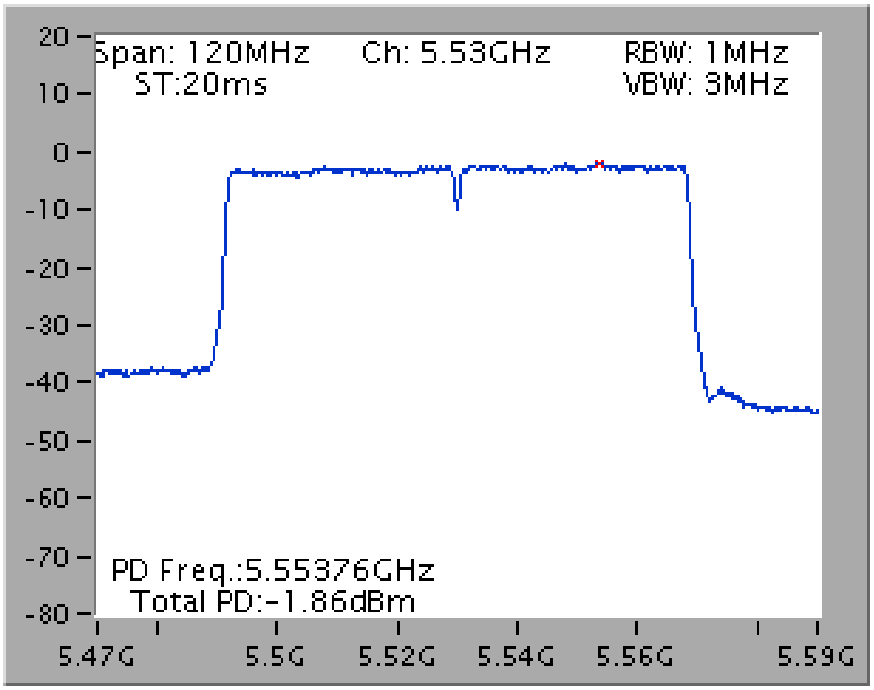


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

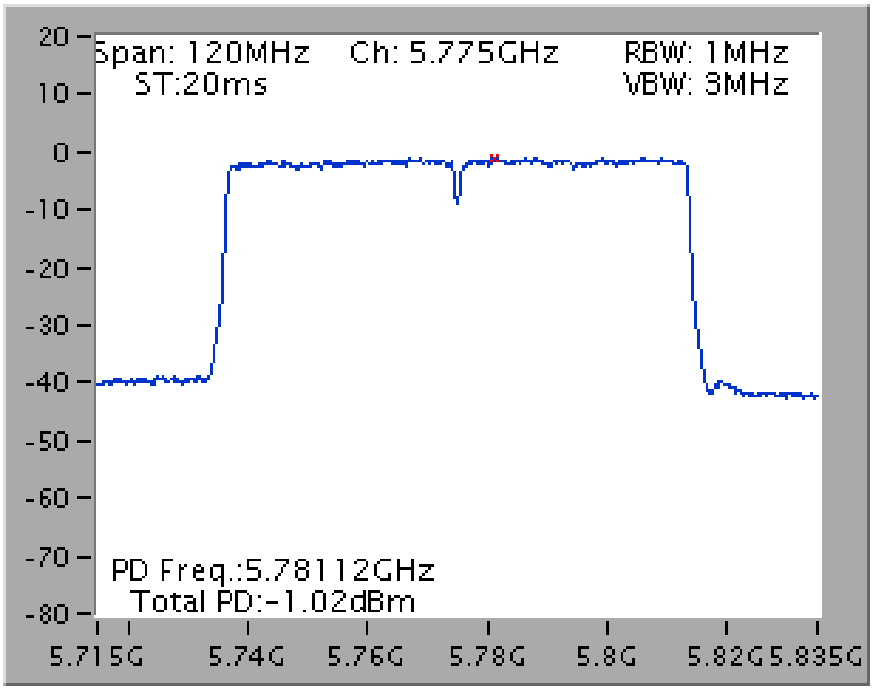


Type 10

Power Density Plot on Chain 1 + Chain 2 / 5530 MHz

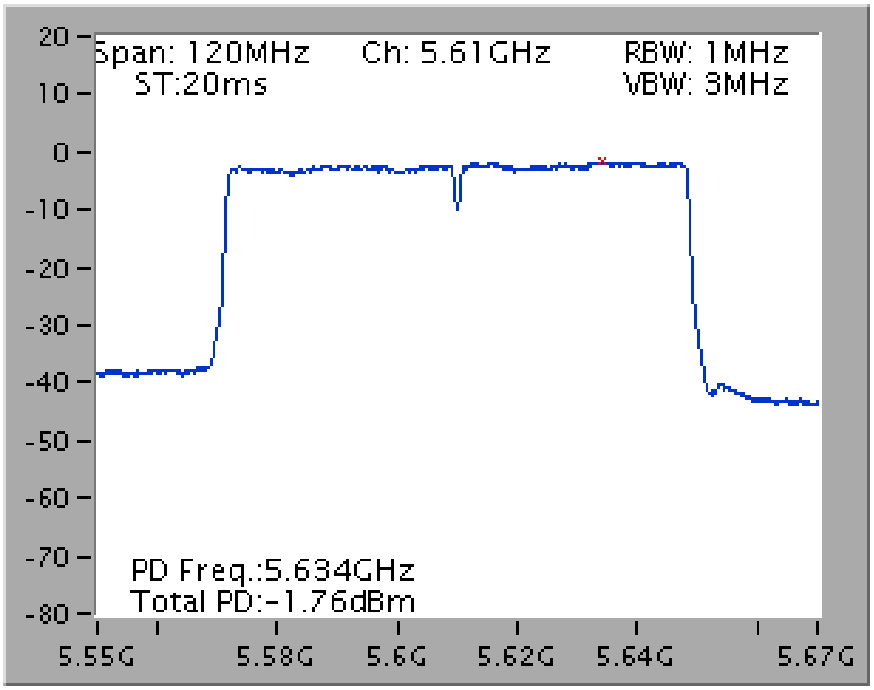


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

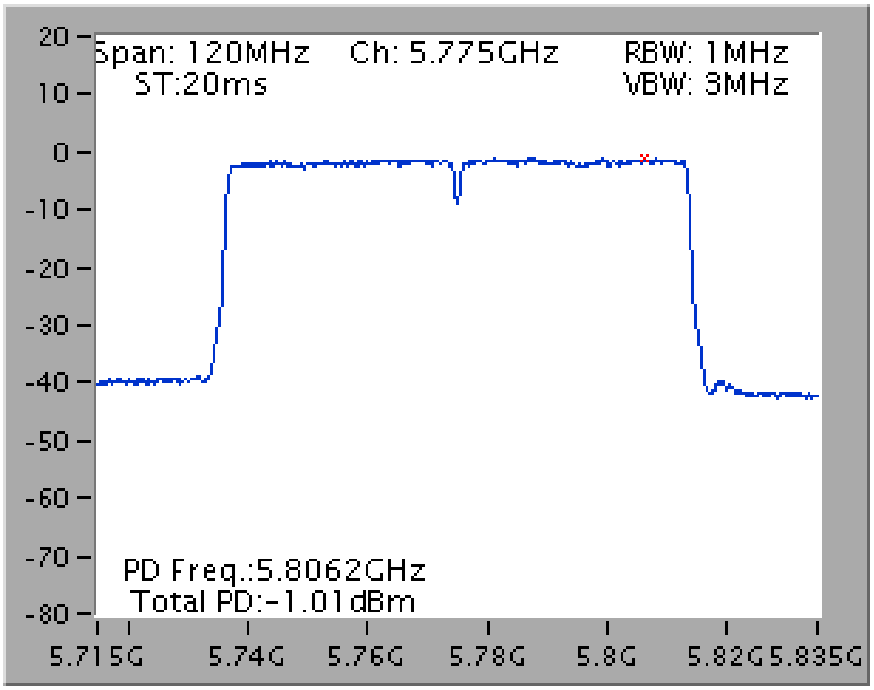


Type 11

Power Density Plot on Chain 1 + Chain 2 / 5610 MHz

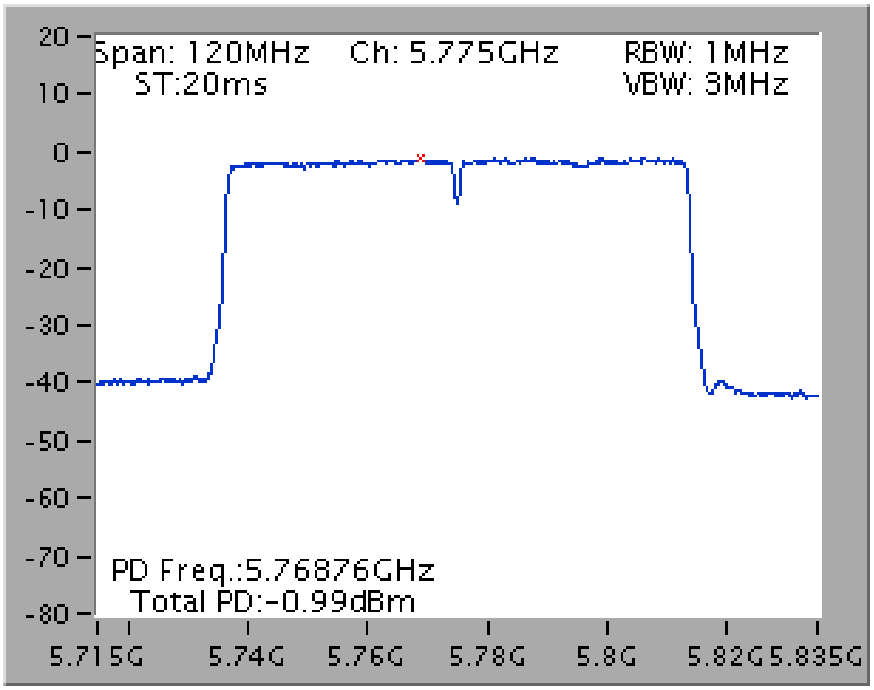


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

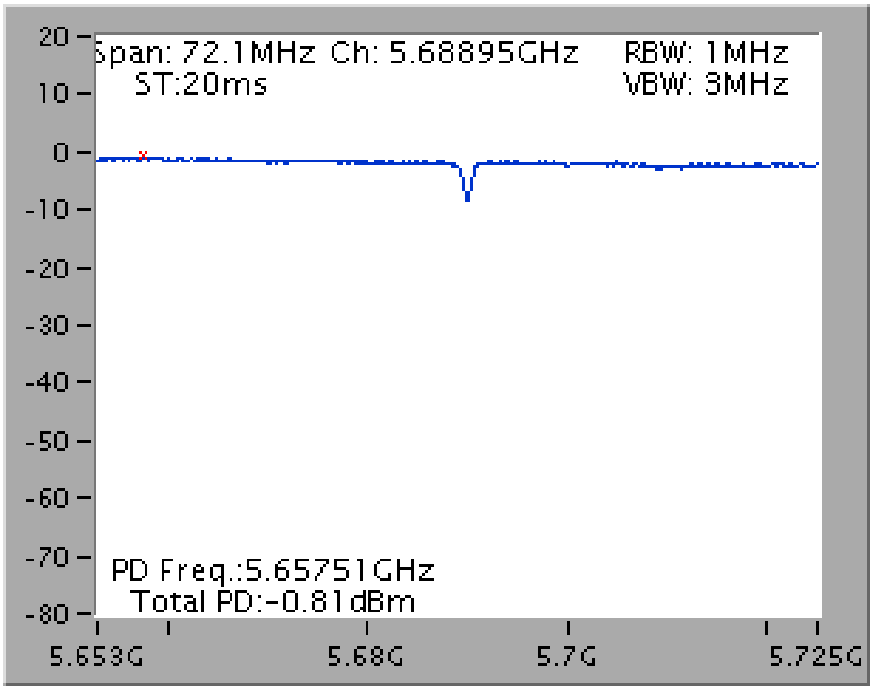


Type 12

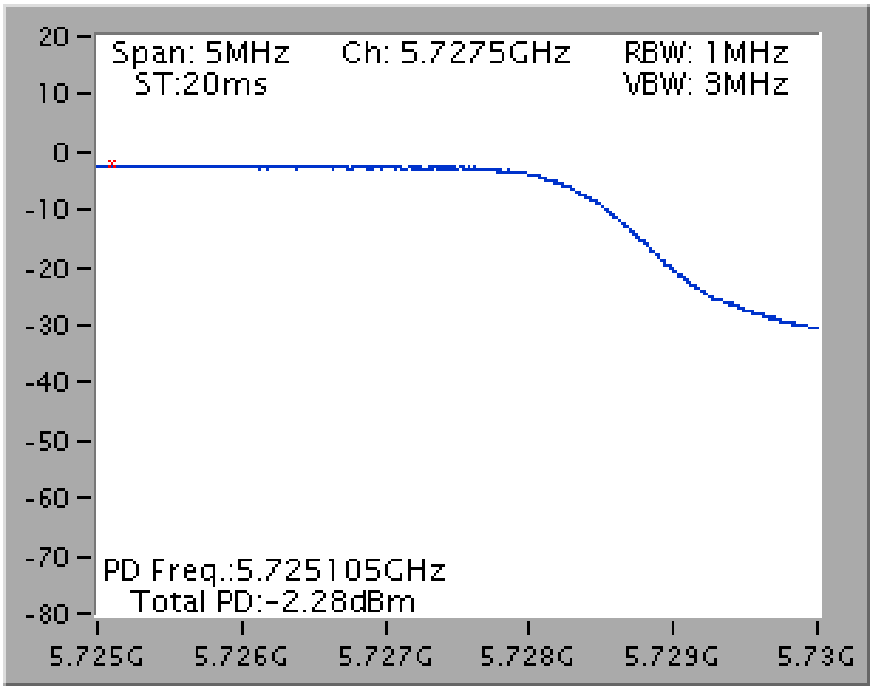
Power Density Plot on Chain 3 + Chain 4 / 5775 MHz



Power Density Plot on Chain 1 + Chain 2 / 5690 MHz (UNII 2C)

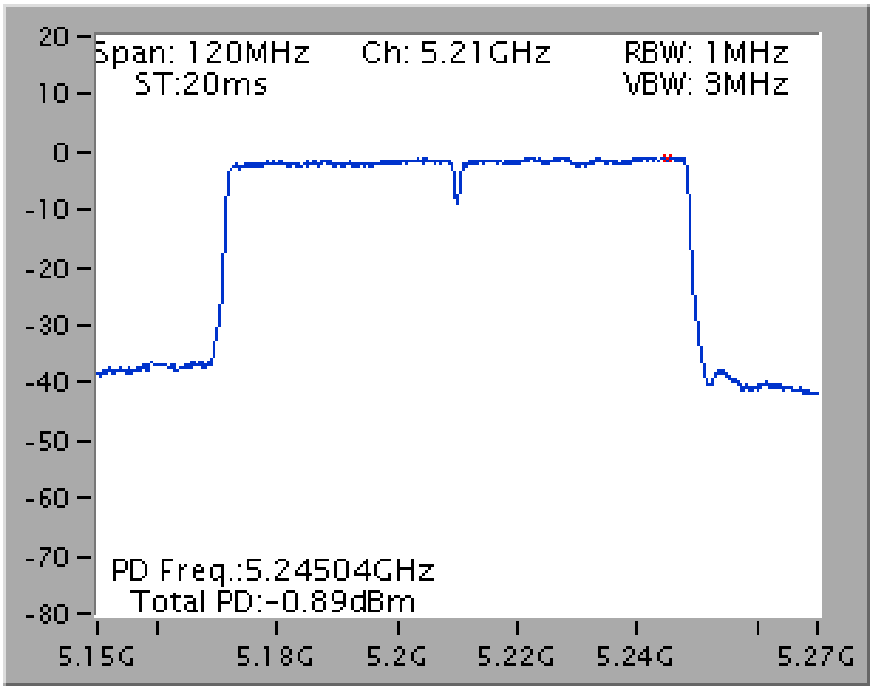


Power Density Plot on Chain 1 + Chain 2 / 5690 MHz (UNII 3)

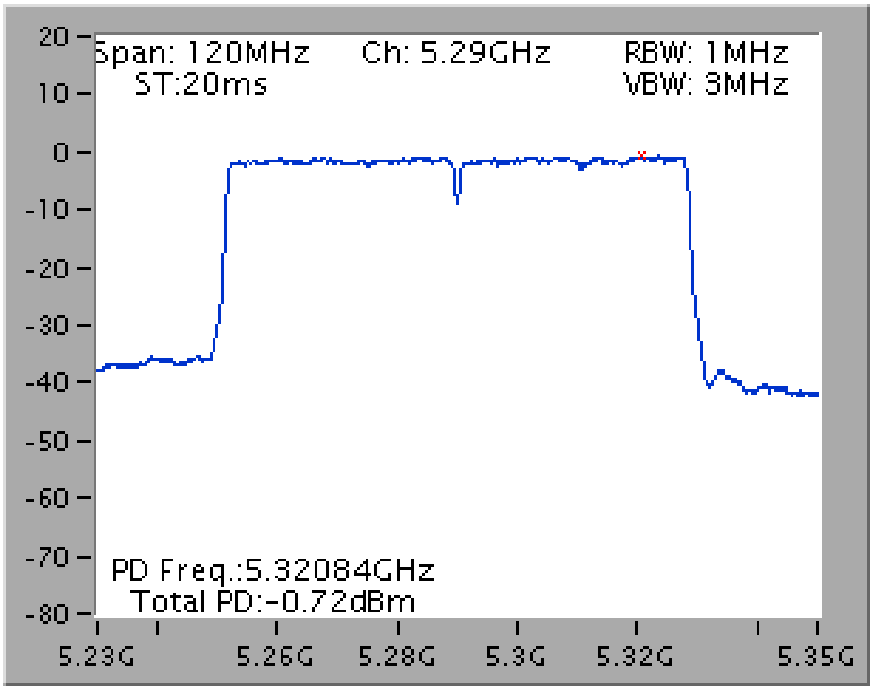


Type 13

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

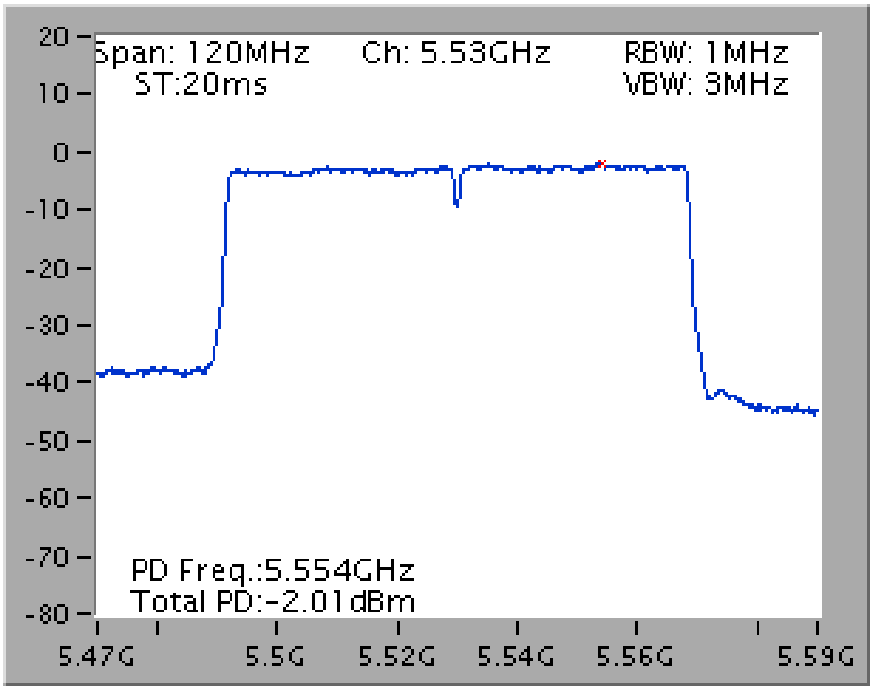


Power Density Plot on Chain 3 + Chain 4 / 5290 MHz

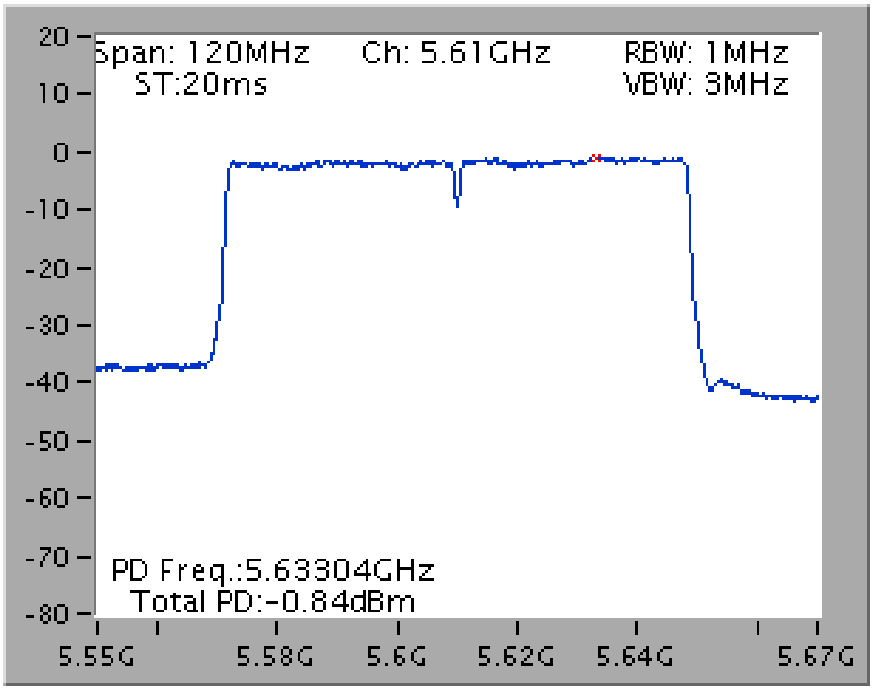


Type 14

Power Density Plot on Chain 1 + Chain 2 / 5530 MHz



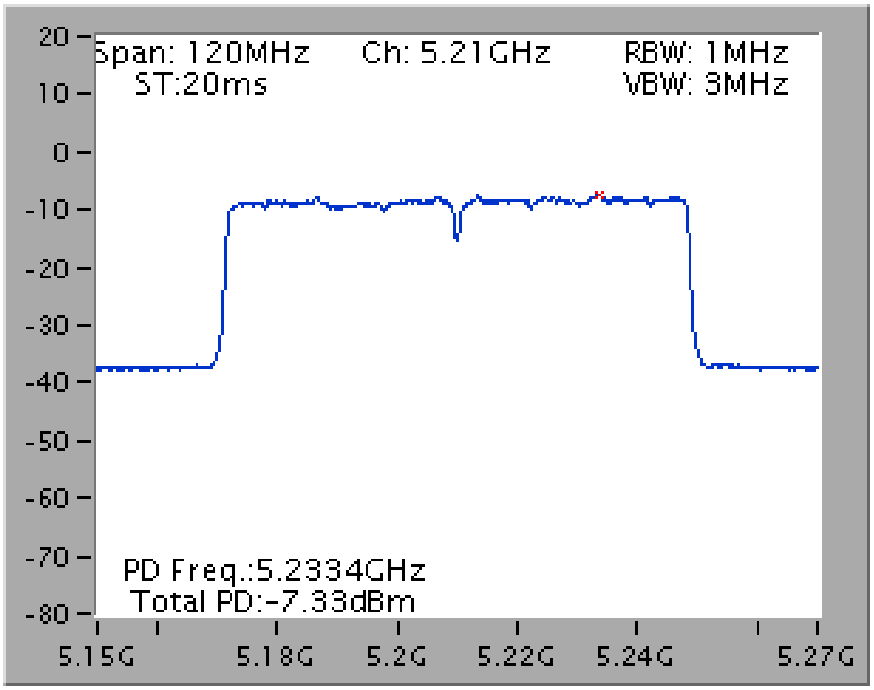
Power Density Plot on Chain 3 + Chain 4 / 5610 MHz



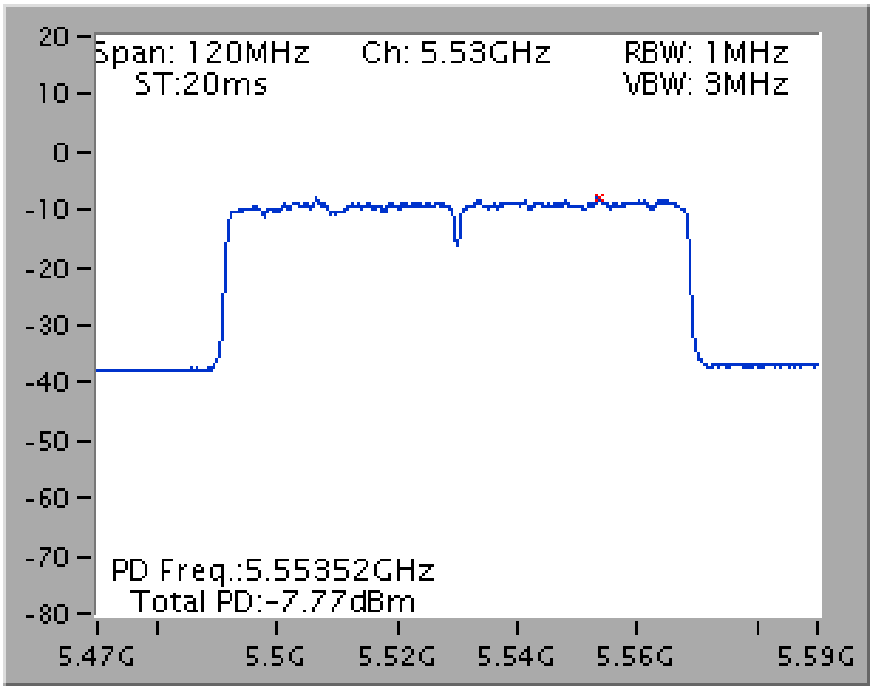
For outdoor use master B1

Type 1

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

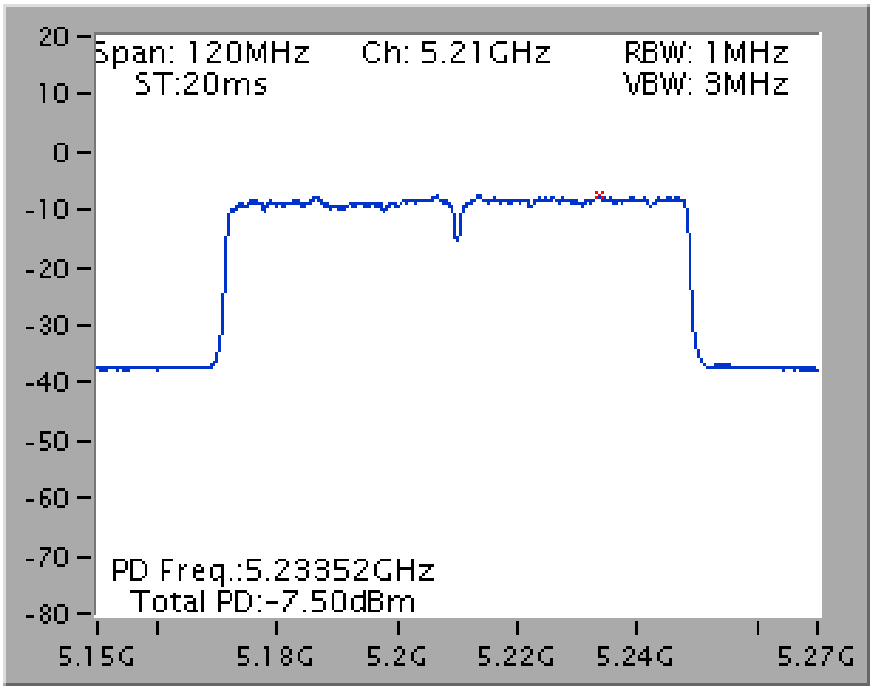


Power Density Plot on Chain 3 + Chain 4 / 5530 MHz

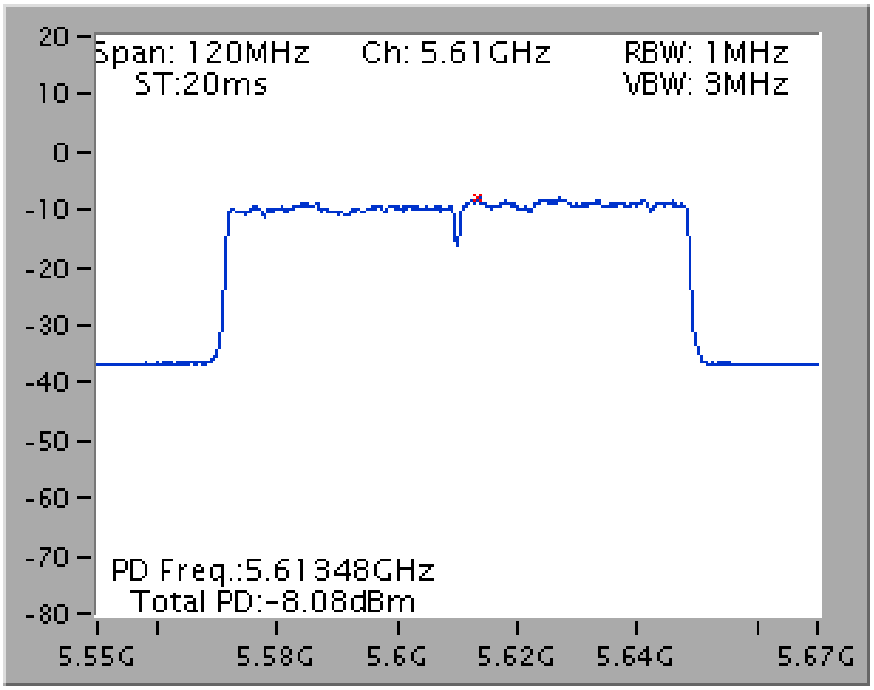


Type 2

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

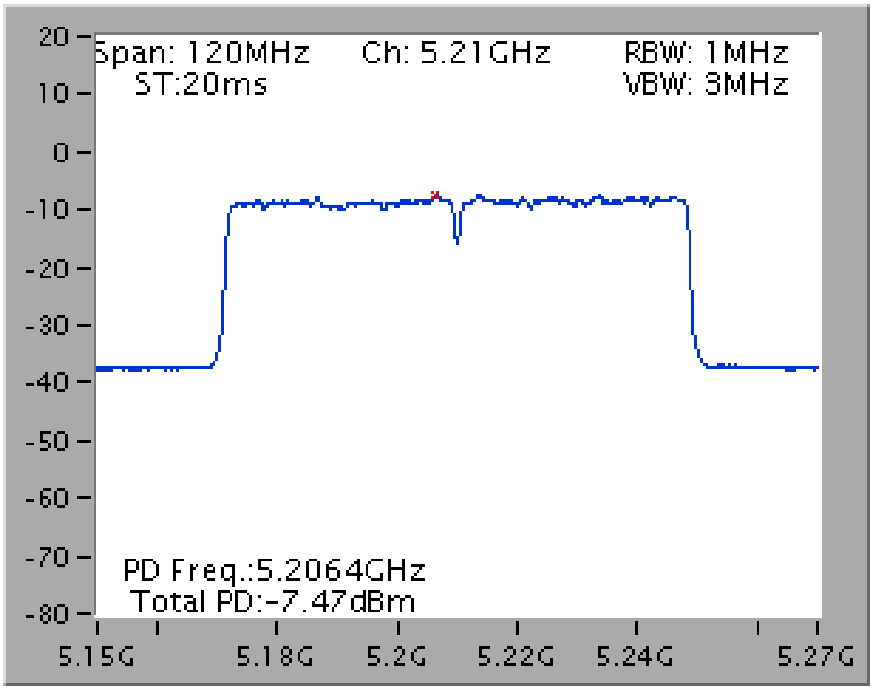


Power Density Plot on Chain 3 + Chain 4 / 5610 MHz

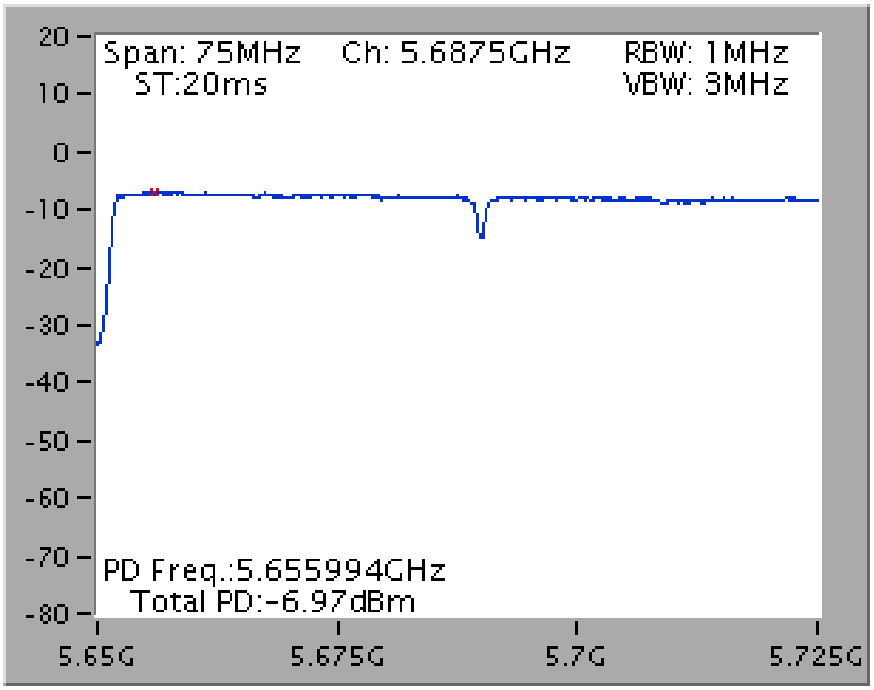


Type 3

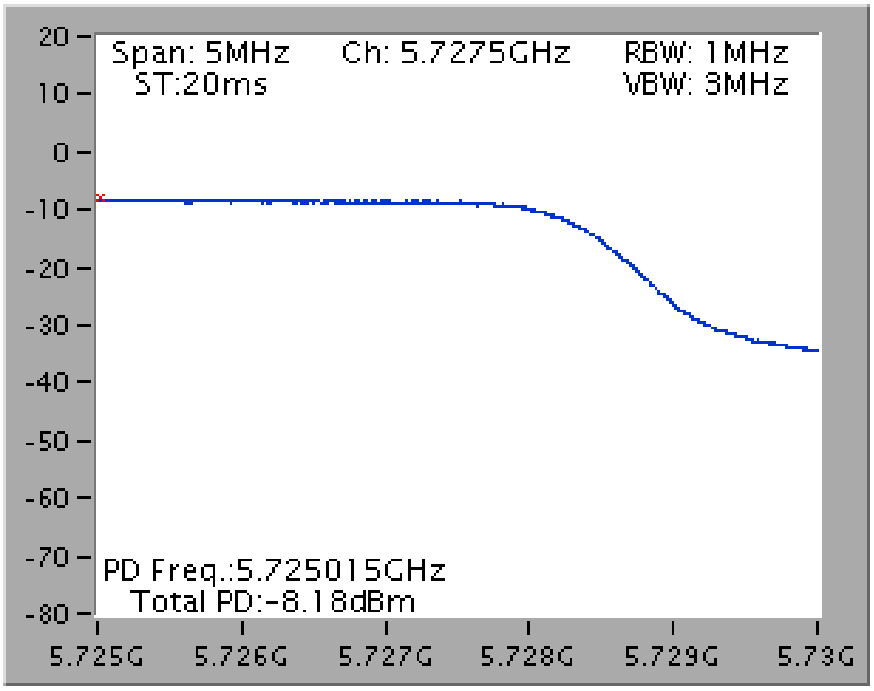
Power Density Plot on Chain 1 + Chain 2 / 5210 MHz



Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 2C)

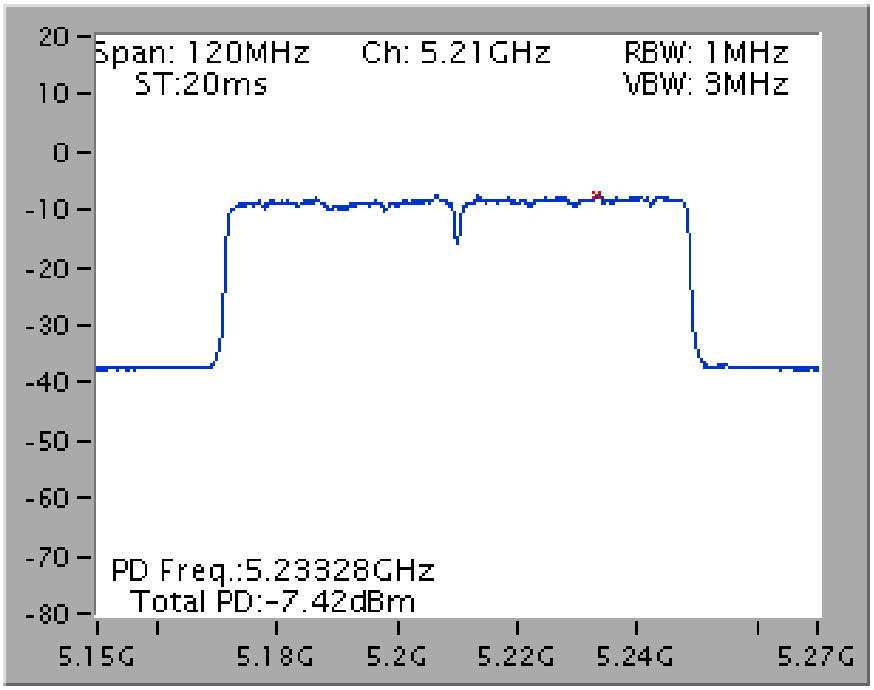


Power Density Plot on Chain 3 + Chain 4 / 5690 MHz (UNII 3)

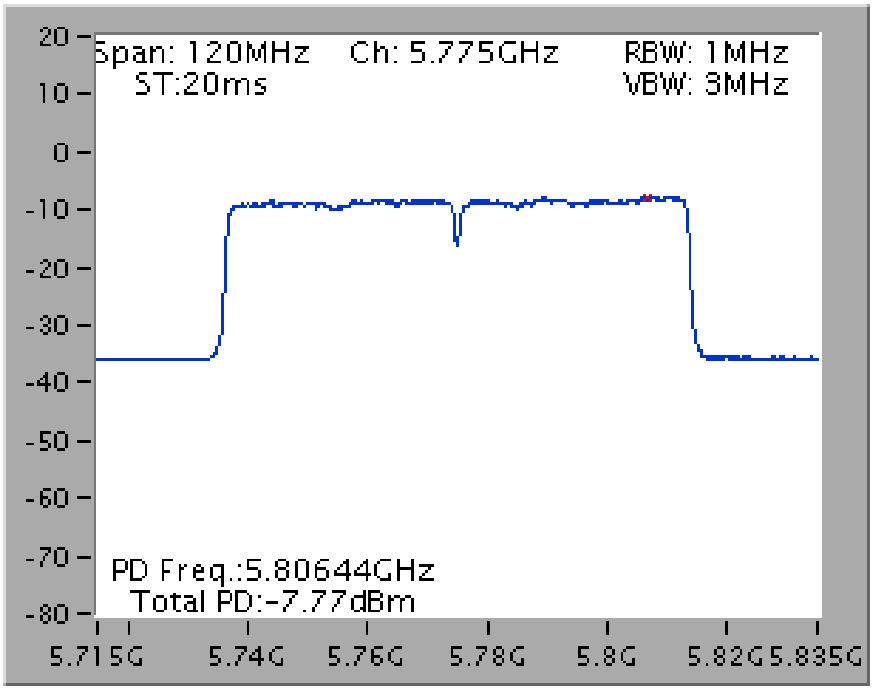


Type 4

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz

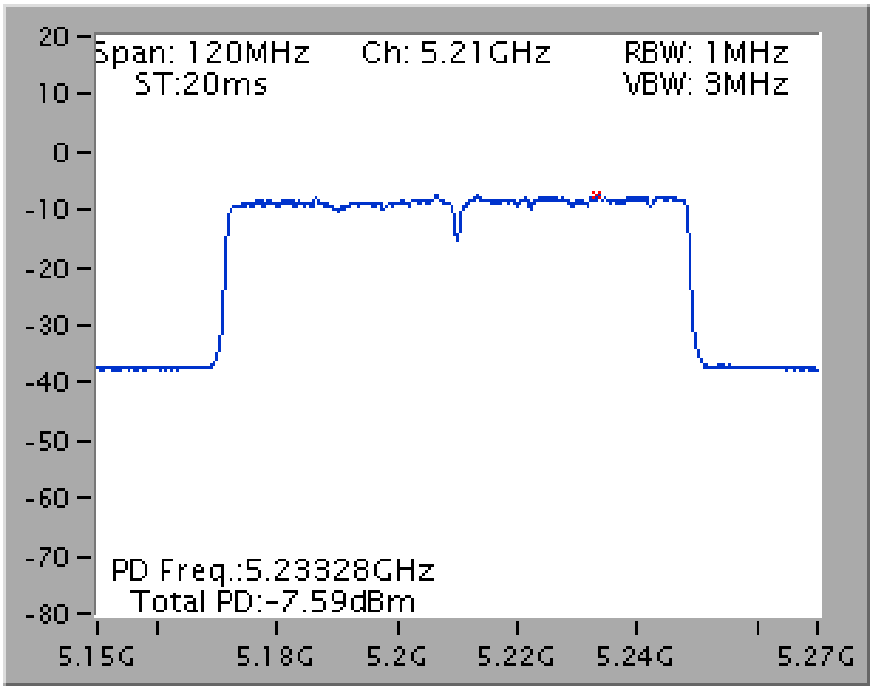


Power Density Plot on Chain 3 + Chain 4 / 5775 MHz

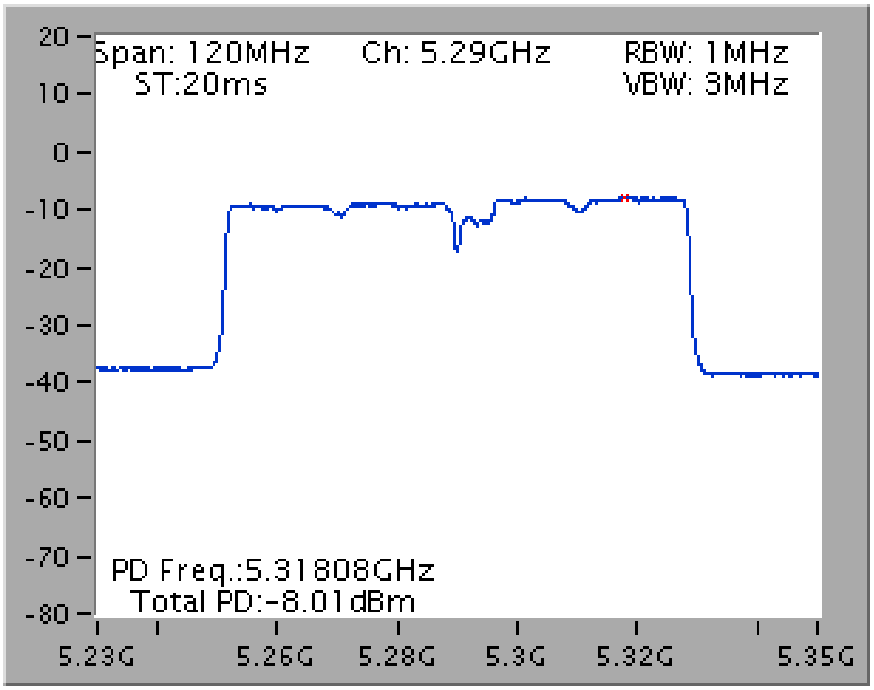


Type 13

Power Density Plot on Chain 1 + Chain 2 / 5210 MHz



Power Density Plot on Chain 3 + Chain 4 / 5290 MHz



4.6. Radiated Emissions Measurement

4.6.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for peak

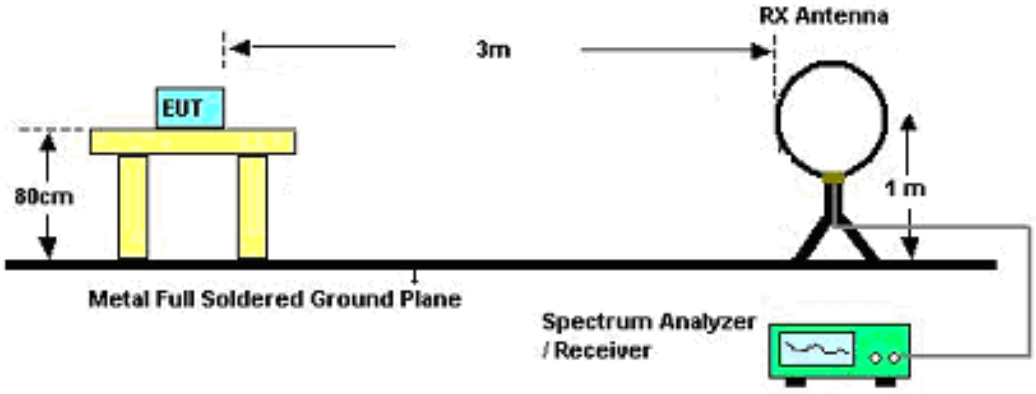
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

4.6.3. Test Procedures

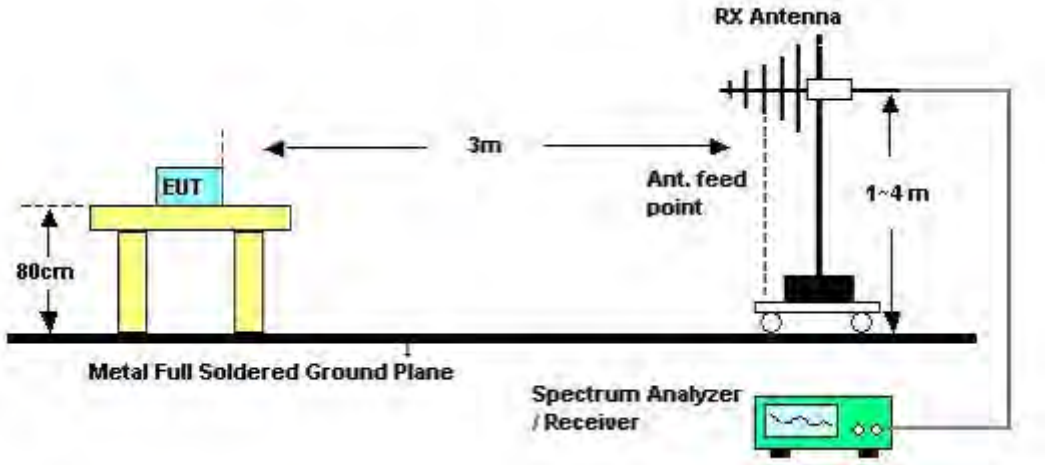
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.6.4. Test Setup Layout

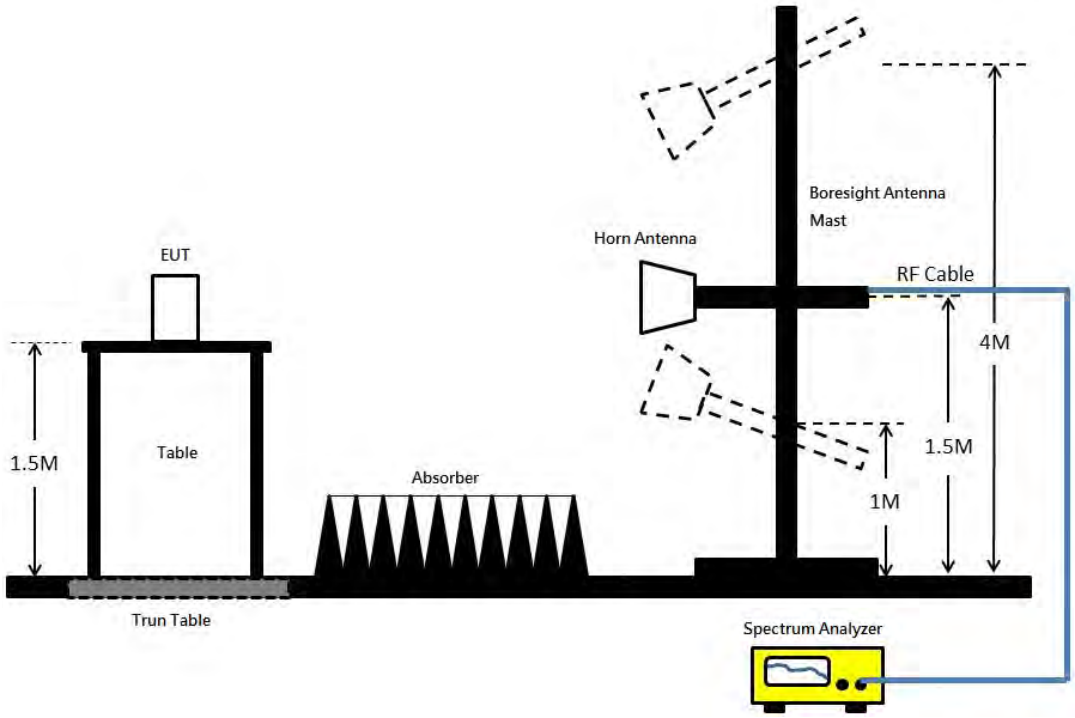
For Radiated Emissions: 9kHz ~30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: Above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

The EUT was programmed to be in beamforming transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	22°C	Humidity	54%
Test Engineer	Nyle Chang & Eason Chen	Configurations	CTX
Test Date	Aug. 16, 2016	Test Mode	Mode 2

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

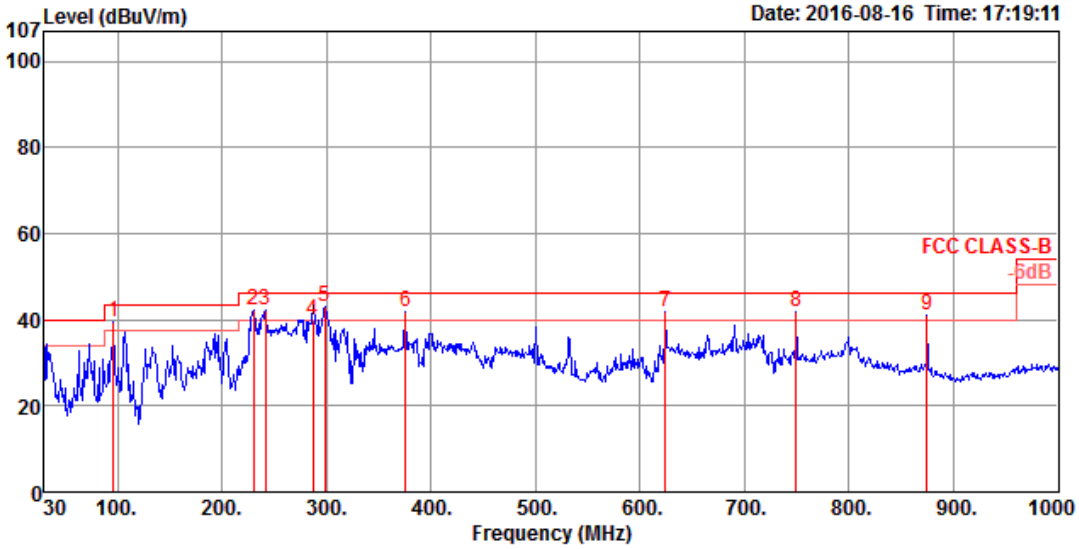
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6.8. Results of Radiated Emissions (30MHz~1GHz)

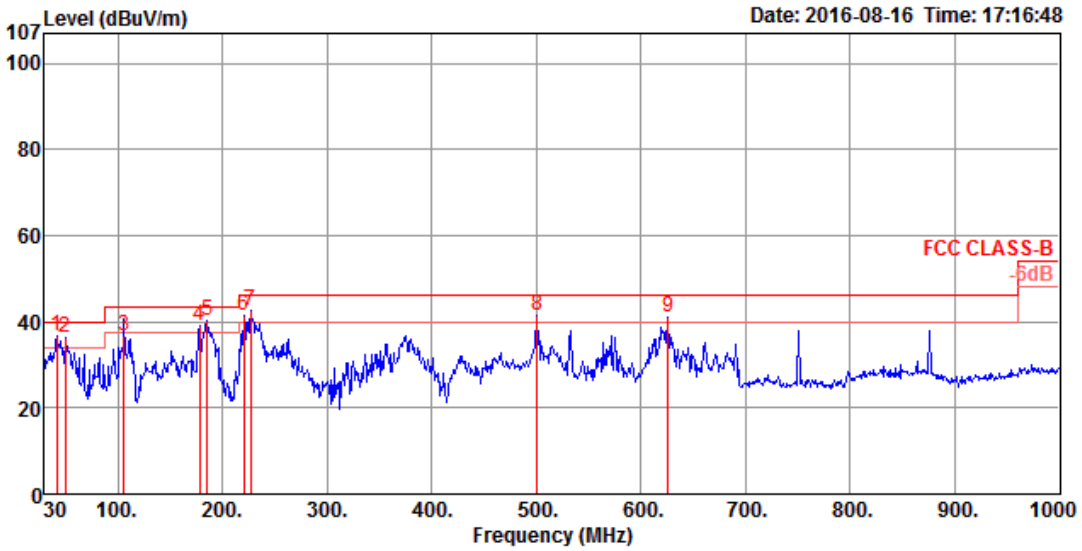
Temperature	22°C	Humidity	54%
Test Engineer	Nyle Chang & Eason Chen	Configurations	CTX
Test Mode	Mode 2		

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	95.96	39.48	43.50	-4.02	54.16	0.87	16.30	31.85	200	322	Peak	HORIZONTAL
2	229.82	42.40	46.00	-3.60	56.17	1.21	17.00	31.98	125	74	Peak	HORIZONTAL
3	241.46	42.40	46.00	-3.60	55.00	1.23	18.12	31.95	150	235	Peak	HORIZONTAL
4	287.05	39.77	46.00	-6.23	51.10	1.34	19.37	32.04	125	236	QP	HORIZONTAL
5	298.69	42.95	46.00	-3.05	54.03	1.37	19.56	32.01	125	260	Peak	HORIZONTAL
6	375.32	41.75	46.00	-4.25	50.64	1.50	21.73	32.12	100	98	Peak	HORIZONTAL
7	624.61	41.74	46.00	-4.26	47.06	1.97	25.16	32.45	125	125	Peak	HORIZONTAL
8	749.74	41.68	46.00	-4.32	46.07	2.19	26.00	32.58	150	241	Peak	HORIZONTAL
9	874.87	41.08	46.00	-4.92	44.04	2.38	27.15	32.49	100	46	Peak	HORIZONTAL

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	41.64	36.86	40.00	-3.14	49.26	0.56	18.71	31.67	100	229	Peak	VERTICAL
2	49.40	36.31	40.00	-3.69	52.37	0.61	15.08	31.75	125	196	Peak	VERTICAL
3	105.66	36.90	43.50	-6.60	50.20	0.87	17.69	31.86	100	295	QP	VERTICAL
4	178.41	39.19	43.50	-4.31	54.53	1.06	15.54	31.94	100	132	Peak	VERTICAL
5	185.20	40.17	43.50	-3.33	55.60	1.08	15.45	31.96	100	147	Peak	VERTICAL
6	220.12	41.51	46.00	-4.49	55.98	1.18	16.30	31.95	200	310	Peak	VERTICAL
7	226.91	42.75	46.00	-3.25	56.74	1.20	16.78	31.97	200	270	Peak	VERTICAL
8	500.45	41.30	46.00	-4.70	48.13	1.76	23.73	32.32	100	144	Peak	VERTICAL
9	625.58	40.99	46.00	-5.01	46.31	1.97	25.16	32.45	100	40	Peak	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.9. Results for Radiated Emissions (1GHz~40GHz)

For non-beamforming mode

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15530.36	47.81	54.00	-6.19	31.11	12.06	38.13	33.49	164	180	Average	HORIZONTAL
2	15534.84	61.18	74.00	-12.82	44.48	12.06	38.13	33.49	164	180	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15530.00	47.99	54.00	-6.01	31.29	12.06	38.13	33.49	149	109	Average	VERTICAL
2	15542.68	61.98	74.00	-12.02	45.28	12.06	38.13	33.49	149	109	Peak	VERTICAL

Temperature	22℃	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10397.40	64.04	68.20	-4.16	49.53	9.54	38.54	33.57	213	118	Peak	HORIZONTAL
2	15592.30	60.51	74.00	-13.49	43.90	12.09	38.05	33.53	256	207	Peak	HORIZONTAL
3	15623.90	47.75	54.00	-6.25	31.24	12.11	37.98	33.58	256	207	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10396.40	68.07	68.20	-0.13	53.58	9.54	38.54	33.59	235	361	Peak	VERTICAL
2	15589.30	60.68	74.00	-13.32	44.07	12.09	38.05	33.53	194	213	Peak	VERTICAL
3	15596.00	48.13	54.00	-5.87	31.52	12.09	38.05	33.53	194	213	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15723.80	61.17	74.00	-12.83	44.85	12.15	37.84	33.67	233	281	Peak	HORIZONTAL
2	15733.50	48.46	54.00	-5.54	32.14	12.15	37.84	33.67	233	281	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15718.20	48.51	54.00	-5.49	32.19	12.15	37.84	33.67	234	45	Average	VERTICAL
2	15743.00	61.27	74.00	-12.73	45.00	12.18	37.76	33.67	234	45	Peak	VERTICAL

Temperature	22℃	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10519.20	61.56	68.20	-6.64	47.08	9.60	38.40	33.52	228	76	Peak	HORIZONTAL
2	15767.40	47.83	54.00	-6.17	31.61	12.18	37.76	33.72	129	123	Average	HORIZONTAL
3	15791.40	60.37	74.00	-13.63	44.20	12.20	37.69	33.72	129	123	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10518.20	63.56	68.20	-4.64	49.08	9.60	38.40	33.52	100	29	Peak	VERTICAL
2	15768.00	48.07	54.00	-5.93	31.85	12.18	37.76	33.72	224	279	Average	VERTICAL
3	15781.20	60.12	74.00	-13.88	43.90	12.18	37.76	33.72	224	279	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15892.20	60.46	74.00	-13.54	44.48	12.24	37.55	33.81	179	101	Peak	HORIZONTAL
2	15925.00	47.44	54.00	-6.56	31.55	12.27	37.47	33.85	179	101	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15878.70	60.20	74.00	-13.80	44.22	12.24	37.55	33.81	266	308	Peak	VERTICAL
2	15921.30	47.56	54.00	-6.44	31.67	12.27	37.47	33.85	266	308	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15974.90	60.60	74.00	-13.40	44.81	12.29	37.40	33.90	164	250	Peak	HORIZONTAL
2	15977.70	48.02	54.00	-5.98	32.23	12.29	37.40	33.90	164	250	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15953.30	48.03	54.00	-5.97	32.14	12.27	37.47	33.85	182	116	Average	VERTICAL
2	15957.60	61.59	74.00	-12.41	45.70	12.27	37.47	33.85	182	116	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11008.90	44.65	54.00	-9.35	29.58	9.86	38.40	33.19	175	177	Average	HORIZONTAL
2	11011.00	56.93	74.00	-17.07	41.86	9.86	38.40	33.19	175	177	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10998.80	44.84	54.00	-9.16	29.77	9.86	38.40	33.19	209	94	Average	VERTICAL
2	11002.10	58.12	74.00	-15.88	43.05	9.86	38.40	33.19	209	94	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11158.40	44.39	54.00	-9.61	28.97	9.94	38.67	33.19	128	267	Average	HORIZONTAL
2	11178.40	56.49	74.00	-17.51	41.07	9.94	38.67	33.19	128	267	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.10	45.39	54.00	-8.61	29.97	9.94	38.67	33.19	100	142	Average	VERTICAL
2	11175.00	57.08	74.00	-16.92	41.66	9.94	38.67	33.19	100	142	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11417.90	45.87	54.00	-8.13	29.89	10.07	39.09	33.18	244	172	Average	HORIZONTAL
2	11421.40	58.00	74.00	-16.00	42.02	10.07	39.09	33.18	244	172	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11417.60	45.79	54.00	-8.21	29.81	10.07	39.09	33.18	218	85	Average	VERTICAL
2	11419.90	58.22	74.00	-15.78	42.24	10.07	39.09	33.18	218	85	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11467.50	57.98	74.00	-16.02	41.93	10.08	39.15	33.18	245	120	Peak	HORIZONTAL
2	11492.50	46.03	54.00	-7.97	29.91	10.10	39.20	33.18	245	120	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11491.60	46.44	54.00	-7.56	30.32	10.10	39.20	33.18	256	294	Average	VERTICAL
2	11494.40	58.61	74.00	-15.39	42.49	10.10	39.20	33.18	256	294	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11546.00	58.01	74.00	-15.99	41.88	10.12	39.20	33.19	239	200	Peak	HORIZONTAL
2	11551.30	45.65	54.00	-8.35	29.52	10.13	39.20	33.20	239	200	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11548.40	58.12	74.00	-15.88	42.00	10.12	39.20	33.20	262	91	Peak	VERTICAL
2	11572.60	46.02	54.00	-7.98	29.89	10.13	39.20	33.20	262	91	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11644.60	45.43	54.00	-8.57	29.29	10.16	39.20	33.22	148	291	Average	HORIZONTAL
2	11651.68	57.99	74.00	-16.01	41.83	10.18	39.20	33.22	148	291	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11645.52	58.01	74.00	-15.99	41.87	10.16	39.20	33.22	193	102	Peak	VERTICAL
2	11648.68	45.73	54.00	-8.27	29.59	10.16	39.20	33.22	193	102	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15540.64	61.27	74.00	-12.73	44.57	12.06	38.13	33.49	182	262	Peak	HORIZONTAL
2	15546.52	47.95	54.00	-6.05	31.25	12.06	38.13	33.49	182	262	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15530.00	61.24	74.00	-12.76	44.54	12.06	38.13	33.49	146	78	Peak	VERTICAL
2	15530.12	47.94	54.00	-6.06	31.24	12.06	38.13	33.49	146	78	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10396.80	64.34	68.20	-3.86	49.85	9.54	38.54	33.59	224	116	Peak	HORIZONTAL
2	15617.60	47.24	54.00	-6.76	30.73	12.11	37.98	33.58	191	290	Average	HORIZONTAL
3	15621.90	59.74	74.00	-14.26	43.23	12.11	37.98	33.58	191	290	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10398.16	67.82	68.20	-0.38	53.31	9.54	38.54	33.57	103	289	Peak	VERTICAL
2	15595.10	47.46	54.00	-6.54	30.85	12.09	38.05	33.53	185	18	Average	VERTICAL
3	15621.00	60.45	74.00	-13.55	43.94	12.11	37.98	33.58	185	18	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15709.60	60.21	74.00	-13.79	43.84	12.15	37.84	33.62	232	279	Peak	HORIZONTAL
2	15712.80	47.68	54.00	-6.32	31.36	12.15	37.84	33.67	232	279	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15709.90	47.86	54.00	-6.14	31.49	12.15	37.84	33.62	261	48	Average	VERTICAL
2	15729.00	60.39	74.00	-13.61	44.07	12.15	37.84	33.67	261	48	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10523.90	57.65	68.20	-10.55	43.17	9.60	38.40	33.52	191	53	Peak	HORIZONTAL
2	15755.10	47.34	54.00	-6.66	31.07	12.18	37.76	33.67	205	63	Average	HORIZONTAL
3	15764.70	60.69	74.00	-13.31	44.47	12.18	37.76	33.72	205	63	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10518.60	64.54	68.20	-3.66	50.06	9.60	38.40	33.52	100	29	Peak	VERTICAL
2	15755.10	47.51	54.00	-6.49	31.24	12.18	37.76	33.67	154	286	Average	VERTICAL
3	15761.90	59.94	74.00	-14.06	43.67	12.18	37.76	33.67	154	286	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15896.20	59.02	74.00	-14.98	43.04	12.24	37.55	33.81	224	274	Peak	HORIZONTAL
2	15925.00	46.45	54.00	-7.55	30.56	12.27	37.47	33.85	224	274	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15891.20	59.22	74.00	-14.78	43.24	12.24	37.55	33.81	292	98	Peak	VERTICAL
2	15919.30	46.81	54.00	-7.19	30.88	12.27	37.47	33.81	292	98	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15949.90	46.81	54.00	-7.19	30.92	12.27	37.47	33.85	132	47	Average	HORIZONTAL
2	15982.80	59.99	74.00	-14.01	44.20	12.29	37.40	33.90	132	47	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15954.60	46.97	54.00	-7.03	31.08	12.27	37.47	33.85	114	316	Average	VERTICAL
2	15966.90	59.77	74.00	-14.23	43.93	12.29	37.40	33.85	114	316	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10982.60	43.95	54.00	-10.05	28.92	9.84	38.40	33.21	268	50	Average	HORIZONTAL
2	11011.50	56.41	74.00	-17.59	41.34	9.86	38.40	33.19	268	50	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10982.90	44.06	54.00	-9.94	29.03	9.84	38.40	33.21	182	250	Average	VERTICAL
2	10994.10	57.05	74.00	-16.95	42.00	9.84	38.40	33.19	182	250	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.40	56.87	74.00	-17.13	41.45	9.94	38.67	33.19	184	78	Peak	HORIZONTAL
2	11164.20	44.61	54.00	-9.39	29.19	9.94	38.67	33.19	184	78	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11138.00	56.79	74.00	-17.21	41.45	9.92	38.61	33.19	173	325	Peak	VERTICAL
2	11155.20	44.11	54.00	-9.89	28.77	9.92	38.61	33.19	173	325	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11415.20	58.08	74.00	-15.92	42.17	10.05	39.04	33.18	237	65	Peak	HORIZONTAL
2	11418.10	45.46	54.00	-8.54	29.48	10.07	39.09	33.18	237	65	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11406.00	57.98	74.00	-16.02	42.07	10.05	39.04	33.18	295	276	Peak	VERTICAL
2	11422.70	45.44	54.00	-8.56	29.46	10.07	39.09	33.18	295	276	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11490.00	57.95	74.00	-16.05	41.83	10.10	39.20	33.18	117	128	Peak	HORIZONTAL
2	11497.00	45.52	54.00	-8.48	29.40	10.10	39.20	33.18	117	128	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11474.70	57.94	74.00	-16.06	41.89	10.08	39.15	33.18	220	283	Peak	VERTICAL
2	11495.90	45.70	54.00	-8.30	29.58	10.10	39.20	33.18	220	283	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11561.76	45.21	54.00	-8.79	29.08	10.13	39.20	33.20	159	257	Average	HORIZONTAL
2	11573.20	58.11	74.00	-15.89	41.98	10.13	39.20	33.20	159	257	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11562.04	46.05	54.00	-7.95	29.92	10.13	39.20	33.20	176	176	Average	VERTICAL
2	11570.36	58.63	74.00	-15.37	42.50	10.13	39.20	33.20	176	176	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11640.40	57.71	74.00	-16.29	41.57	10.16	39.20	33.22	151	323	Peak	HORIZONTAL
2	11651.72	45.15	54.00	-8.85	28.99	10.18	39.20	33.22	151	323	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11649.88	45.29	54.00	-8.71	29.15	10.16	39.20	33.22	241	149	Average	VERTICAL
2	11659.80	57.76	74.00	-16.24	41.60	10.18	39.20	33.22	241	149	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15561.52	46.95	54.00	-7.05	30.34	12.09	38.05	33.53	256	155	Average	HORIZONTAL
2	15578.24	59.74	74.00	-14.26	43.13	12.09	38.05	33.53	256	155	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15565.76	60.04	74.00	-13.96	43.43	12.09	38.05	33.53	191	233	Peak	VERTICAL
2	15570.44	47.02	54.00	-6.98	30.41	12.09	38.05	33.53	191	233	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15684.64	47.22	54.00	-6.78	30.80	12.13	37.91	33.62	199	282	Average	HORIZONTAL
2	15696.52	60.01	74.00	-13.99	43.64	12.15	37.84	33.62	199	282	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15686.12	61.06	74.00	-12.94	44.64	12.13	37.91	33.62	151	108	Peak	VERTICAL
2	15689.76	47.45	54.00	-6.55	31.03	12.13	37.91	33.62	151	108	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15800.44	46.37	54.00	-7.63	30.20	12.20	37.69	33.72	209	127	Average	HORIZONTAL
2	15800.52	59.65	74.00	-14.35	43.48	12.20	37.69	33.72	209	127	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15800.00	46.49	54.00	-7.51	30.32	12.20	37.69	33.72	125	267	Average	VERTICAL
2	15805.48	59.55	74.00	-14.45	43.38	12.20	37.69	33.72	125	267	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10612.80	42.50	54.00	-11.50	27.90	9.65	38.40	33.45	160	73	Average	HORIZONTAL
2	10622.44	54.92	74.00	-19.08	40.30	9.67	38.40	33.45	160	73	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10610.00	42.77	54.00	-11.23	28.17	9.65	38.40	33.45	248	118	Average	VERTICAL
2	10615.08	56.16	74.00	-17.84	41.56	9.65	38.40	33.45	248	118	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11015.88	56.47	74.00	-17.53	41.40	9.86	38.40	33.19	224	106	Peak	HORIZONTAL
2	11021.32	43.71	54.00	-10.29	28.64	9.86	38.40	33.19	224	106	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11024.20	43.79	54.00	-10.21	28.72	9.86	38.40	33.19	159	324	Average	VERTICAL
2	11026.28	56.83	74.00	-17.17	41.76	9.86	38.40	33.19	159	324	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11090.40	44.25	54.00	-9.75	29.04	9.89	38.51	33.19	236	211	Average	HORIZONTAL
2	11103.44	57.04	74.00	-16.96	41.76	9.91	38.56	33.19	236	211	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11092.84	57.13	74.00	-16.87	41.85	9.91	38.56	33.19	230	128	Peak	VERTICAL
2	11094.96	44.92	54.00	-9.08	29.64	9.91	38.56	33.19	230	128	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11340.32	43.56	54.00	-10.44	27.79	10.02	38.93	33.18	267	301	Average	HORIZONTAL
2	11347.04	56.67	74.00	-17.33	40.90	10.02	38.93	33.18	267	301	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11330.88	44.56	54.00	-9.44	28.79	10.02	38.93	33.18	221	223	Average	VERTICAL
2	11346.88	57.33	74.00	-16.67	41.56	10.02	38.93	33.18	221	223	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11504.44	44.96	54.00	-9.04	28.84	10.10	39.20	33.18	136	236	Average	HORIZONTAL
2	11509.40	57.95	74.00	-16.05	41.84	10.10	39.20	33.19	136	236	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11511.48	45.49	54.00	-8.51	29.38	10.10	39.20	33.19	156	90	Average	VERTICAL
2	11515.84	58.34	74.00	-15.66	42.23	10.10	39.20	33.19	156	90	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11580.76	45.25	54.00	-8.75	29.12	10.13	39.20	33.20	272	288	Average	HORIZONTAL
2	11583.80	58.67	74.00	-15.33	42.52	10.15	39.20	33.20	272	288	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11583.48	45.19	54.00	-8.81	29.06	10.13	39.20	33.20	226	104	Average	VERTICAL
2	11597.60	58.46	74.00	-15.54	42.32	10.15	39.20	33.21	226	104	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Aug. 22, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15633.03	59.57	74.00	-14.43	43.06	12.11	37.98	33.58	143	211	Peak	HORIZONTAL
2	15634.20	45.47	54.00	-8.53	28.96	12.11	37.98	33.58	143	211	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15631.28	45.50	54.00	-8.50	28.99	12.11	37.98	33.58	203	91	Average	VERTICAL
2	15633.24	59.45	74.00	-14.55	42.94	12.11	37.98	33.58	203	91	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15865.52	59.25	74.00	-14.75	43.17	12.22	37.62	33.76	238	105	Peak	HORIZONTAL
2	15874.12	46.05	54.00	-7.95	30.07	12.24	37.55	33.81	238	105	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15869.80	46.29	54.00	-7.71	30.26	12.22	37.62	33.81	237	236	Average	VERTICAL
2	15876.00	58.82	74.00	-15.18	42.84	12.24	37.55	33.81	237	236	Peak	VERTICAL

Temperature	22℃	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Aug. 22, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11059.90	43.19	54.00	-10.81	28.05	9.88	38.45	33.19	215	122	Average	HORIZONTAL
2	11064.65	56.29	74.00	-17.71	41.08	9.89	38.51	33.19	215	122	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11059.86	56.78	74.00	-17.22	41.64	9.88	38.45	33.19	173	224	Peak	VERTICAL
2	11060.13	43.23	54.00	-10.77	28.02	9.89	38.51	33.19	173	224	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11211.84	56.19	74.00	-17.81	40.70	9.96	38.72	33.19	174	289	Peak	HORIZONTAL
2	11229.96	43.33	54.00	-10.67	27.78	9.97	38.77	33.19	174	289	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11224.80	55.61	74.00	-18.39	40.06	9.97	38.77	33.19	161	146	Peak	VERTICAL
2	11228.64	43.30	54.00	-10.70	27.75	9.97	38.77	33.19	161	146	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11545.08	45.37	54.00	-8.63	29.24	10.12	39.20	33.19	136	274	Average	HORIZONTAL
2	11552.28	58.50	74.00	-15.50	42.37	10.13	39.20	33.20	136	274	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11552.04	58.28	74.00	-15.72	42.15	10.13	39.20	33.20	155	193	Peak	VERTICAL
2	11555.28	45.29	54.00	-8.71	29.16	10.13	39.20	33.20	155	193	Average	VERTICAL

Straddle Channel

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11429.20	58.74	74.00	-15.26	42.76	10.07	39.09	33.18	259	35	Peak	HORIZONTAL
2	11443.70	45.99	54.00	-8.01	30.01	10.07	39.09	33.18	259	35	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11440.40	46.46	54.00	-7.54	30.48	10.07	39.09	33.18	171	333	Average	VERTICAL
2	11450.50	58.64	74.00	-15.36	42.59	10.08	39.15	33.18	171	333	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11424.00	45.42	54.00	-8.58	29.44	10.07	39.09	33.18	252	153	Average	HORIZONTAL
2	11460.40	58.01	74.00	-15.99	41.96	10.08	39.15	33.18	252	153	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11436.90	58.21	74.00	-15.79	42.23	10.07	39.09	33.18	153	333	Peak	VERTICAL
2	11440.20	45.85	54.00	-8.15	29.87	10.07	39.09	33.18	153	333	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11423.32	45.43	54.00	-8.57	29.45	10.07	39.09	33.18	190	228	Average	HORIZONTAL
2	11429.88	58.31	74.00	-15.69	42.33	10.07	39.09	33.18	190	228	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11422.44	45.56	54.00	-8.44	29.58	10.07	39.09	33.18	293	78	Average	VERTICAL
2	11426.48	58.59	74.00	-15.41	42.61	10.07	39.09	33.18	293	78	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 17, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11381.20	57.24	74.00	-16.76	41.39	10.04	38.99	33.18	157	172	Peak	HORIZONTAL
2	11390.00	45.05	54.00	-8.95	29.14	10.05	39.04	33.18	157	172	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11386.36	44.98	54.00	-9.02	29.07	10.05	39.04	33.18	143	294	Average	VERTICAL
2	11389.52	57.75	74.00	-16.25	41.84	10.05	39.04	33.18	143	294	Peak	VERTICAL

802.11ac MCS0/Nss2 VHT80+80

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 1 / CH 42+106 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11058.08	43.39	54.00	-10.61	28.26	10.67	39.14	34.68	114	127	Average	HORIZONTAL
2	11061.80	55.89	74.00	-18.11	40.72	10.67	39.18	34.68	114	127	Peak	HORIZONTAL
3	15631.92	46.47	54.00	-7.53	29.94	13.38	38.34	35.19	120	182	Average	HORIZONTAL
4	15634.66	59.56	74.00	-14.44	43.03	13.38	38.34	35.19	120	182	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11058.44	56.43	74.00	-17.57	41.30	10.67	39.14	34.68	114	75	Peak	VERTICAL
2	11058.84	43.29	54.00	-10.71	28.16	10.67	39.14	34.68	114	75	Average	VERTICAL
3	15622.32	46.69	54.00	-7.31	30.16	13.38	38.34	35.19	111	19	Average	VERTICAL
4	15630.80	59.74	74.00	-14.26	43.21	13.38	38.34	35.19	111	19	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 2 / CH 42+122 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11216.88	55.81	74.00	-18.19	40.47	10.70	39.34	34.70	139	250	Peak	HORIZONTAL
2	11220.26	43.17	54.00	-10.83	27.83	10.70	39.34	34.70	139	250	Average	HORIZONTAL
3	15626.90	59.81	74.00	-14.19	43.28	13.38	38.34	35.19	136	206	Peak	HORIZONTAL
4	15628.50	46.75	54.00	-7.25	30.22	13.38	38.34	35.19	136	206	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11216.92	56.62	74.00	-17.38	41.28	10.70	39.34	34.70	141	322	Peak	VERTICAL
2	11219.60	43.17	54.00	-10.83	27.83	10.70	39.34	34.70	141	322	Average	VERTICAL
3	15626.12	46.62	54.00	-7.38	30.09	13.38	38.34	35.19	155	241	Average	VERTICAL
4	15635.00	59.57	74.00	-14.43	43.04	13.38	38.34	35.19	155	241	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 3 / CH 42+138 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11376.38	57.12	74.00	-16.88	41.59	10.72	39.54	34.73	176	288	Peak	HORIZONTAL
2	11377.48	43.82	54.00	-10.18	28.29	10.72	39.54	34.73	176	288	Average	HORIZONTAL
3	15630.48	46.68	54.00	-7.32	30.15	13.38	38.34	35.19	168	210	Average	HORIZONTAL
4	15634.94	59.26	74.00	-14.74	42.73	13.38	38.34	35.19	168	210	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11377.52	43.77	54.00	-10.23	28.24	10.72	39.54	34.73	176	336	Average	VERTICAL
2	11382.54	56.72	74.00	-17.28	41.19	10.72	39.54	34.73	176	336	Peak	VERTICAL
3	15626.26	59.68	74.00	-14.32	43.15	13.38	38.34	35.19	165	198	Peak	VERTICAL
4	15631.30	47.79	54.00	-6.21	31.26	13.38	38.34	35.19	165	198	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 4 / CH 42+155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11548.54	43.95	54.00	-10.05	28.29	10.75	39.67	34.76	173	324	Average	HORIZONTAL
2	11554.00	57.02	74.00	-16.98	41.37	10.76	39.65	34.76	173	324	Peak	HORIZONTAL
3	15629.02	60.66	74.00	-13.34	44.13	13.38	38.34	35.19	166	257	Peak	HORIZONTAL
4	15633.36	46.64	54.00	-7.36	30.11	13.38	38.34	35.19	166	257	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11546.88	44.01	54.00	-9.99	28.35	10.75	39.67	34.76	170	270	Average	VERTICAL
2	11549.54	56.63	74.00	-17.37	40.97	10.75	39.67	34.76	170	270	Peak	VERTICAL
3	15625.82	60.20	74.00	-13.80	43.67	13.38	38.34	35.19	166	353	Peak	VERTICAL
4	15630.86	46.71	54.00	-7.29	30.18	13.38	38.34	35.19	166	353	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 5 / CH 58+106 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11062.42	43.50	54.00	-10.50	28.33	10.67	39.18	34.68	146	26	Average	HORIZONTAL
2	11063.38	56.54	74.00	-17.46	41.37	10.67	39.18	34.68	146	26	Peak	HORIZONTAL
3	15865.16	59.73	74.00	-14.27	43.59	13.39	38.06	35.31	147	64	Peak	HORIZONTAL
4	15871.16	46.58	54.00	-7.42	30.44	13.39	38.06	35.31	147	64	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11055.20	43.38	54.00	-10.62	28.25	10.67	39.14	34.68	150	218	Average	VERTICAL
2	11058.70	55.99	74.00	-18.01	40.86	10.67	39.14	34.68	150	218	Peak	VERTICAL
3	15868.80	58.51	74.00	-15.49	42.37	13.39	38.06	35.31	153	257	Peak	VERTICAL
4	15869.34	46.29	54.00	-7.71	30.15	13.39	38.06	35.31	153	257	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 6 / CH 58+122 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11217.14	55.87	74.00	-18.13	40.53	10.70	39.34	34.70	150	121	Peak	HORIZONTAL
2	11222.86	43.24	54.00	-10.76	27.87	10.70	39.38	34.71	150	121	Average	HORIZONTAL
3	15869.96	59.57	74.00	-14.43	43.43	13.39	38.06	35.31	129	39	Peak	HORIZONTAL
4	15874.86	46.91	54.00	-7.09	30.85	13.39	38.01	35.34	129	39	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11216.60	43.19	54.00	-10.81	27.85	10.70	39.34	34.70	147	71	Average	VERTICAL
2	11217.66	56.53	74.00	-17.47	41.19	10.70	39.34	34.70	147	71	Peak	VERTICAL
3	15868.50	47.24	54.00	-6.76	31.10	13.39	38.06	35.31	158	84	Average	VERTICAL
4	15874.98	60.10	74.00	-13.90	44.04	13.39	38.01	35.34	158	84	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 7 / CH 58+138 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11376.46	43.95	54.00	-10.05	28.42	10.72	39.54	34.73	111	189	Average	HORIZONTAL
2	11383.12	56.91	74.00	-17.09	41.38	10.72	39.54	34.73	111	189	Peak	HORIZONTAL
3	15865.22	59.35	74.00	-14.65	43.21	13.39	38.06	35.31	116	249	Peak	HORIZONTAL
4	15866.58	46.56	54.00	-7.44	30.42	13.39	38.06	35.31	116	249	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11378.02	43.89	54.00	-10.11	28.36	10.72	39.54	34.73	108	148	Average	VERTICAL
2	11379.90	56.97	74.00	-17.03	41.44	10.72	39.54	34.73	108	148	Peak	VERTICAL
3	15869.80	58.89	74.00	-15.11	42.75	13.39	38.06	35.31	142	114	Peak	VERTICAL
4	15871.90	46.48	54.00	-7.52	30.34	13.39	38.06	35.31	142	114	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 8 / CH 58+155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11545.30	57.62	74.00	-16.38	41.96	10.75	39.67	34.76	139	218	Peak	HORIZONTAL
2	11552.80	44.10	54.00	-9.90	28.45	10.76	39.65	34.76	139	218	Average	HORIZONTAL
3	15867.48	59.18	74.00	-14.82	43.04	13.39	38.06	35.31	132	274	Peak	HORIZONTAL
4	15872.38	47.53	54.00	-6.47	31.39	13.39	38.06	35.31	132	274	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11546.96	43.98	54.00	-10.02	28.32	10.75	39.67	34.76	140	165	Average	VERTICAL
2	11551.62	57.01	74.00	-16.99	41.36	10.76	39.65	34.76	140	165	Peak	VERTICAL
3	15865.04	59.34	74.00	-14.66	43.20	13.39	38.06	35.31	142	220	Peak	VERTICAL
4	15874.56	46.35	54.00	-7.65	30.29	13.39	38.01	35.34	142	220	Average	VERTICAL

Temperature	22℃	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 9 / CH 106+138 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11055.58	43.48	54.00	-10.52	28.35	10.67	39.14	34.68	132	250	Average	HORIZONTAL
2	11059.10	56.39	74.00	-17.61	41.26	10.67	39.14	34.68	132	250	Peak	HORIZONTAL
3	11377.82	57.21	74.00	-16.79	41.68	10.72	39.54	34.73	135	305	Peak	HORIZONTAL
4	11383.56	43.88	54.00	-10.12	28.35	10.72	39.54	34.73	135	305	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11056.12	43.58	54.00	-10.42	28.45	10.67	39.14	34.68	126	273	Average	VERTICAL
2	11058.04	55.84	74.00	-18.16	40.71	10.67	39.14	34.68	126	273	Peak	VERTICAL
3	11375.74	43.66	54.00	-10.34	28.13	10.72	39.54	34.73	138	212	Average	VERTICAL
4	11380.50	56.18	74.00	-17.82	40.65	10.72	39.54	34.73	138	212	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 10 / CH 106+155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11062.24	56.80	74.00	-17.20	41.63	10.67	39.18	34.68	101	118	Peak	HORIZONTAL
2	11064.64	43.34	54.00	-10.66	28.17	10.67	39.18	34.68	101	118	Average	HORIZONTAL
3	11548.10	57.34	74.00	-16.66	41.68	10.75	39.67	34.76	110	139	Peak	HORIZONTAL
4	11553.24	43.93	54.00	-10.07	28.28	10.76	39.65	34.76	110	139	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11058.96	43.34	54.00	-10.66	28.21	10.67	39.14	34.68	124	166	Average	VERTICAL
2	11064.20	55.91	74.00	-18.09	40.74	10.67	39.18	34.68	124	166	Peak	VERTICAL
3	11550.86	43.99	54.00	-10.01	28.34	10.76	39.65	34.76	114	185	Average	VERTICAL
4	11553.18	57.51	74.00	-16.49	41.86	10.76	39.65	34.76	114	185	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 11 / CH 122+155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11218.62	56.15	74.00	-17.85	40.81	10.70	39.34	34.70	103	175	Peak	HORIZONTAL
2	11219.86	43.24	54.00	-10.76	27.90	10.70	39.34	34.70	103	175	Average	HORIZONTAL
3	11547.04	57.12	74.00	-16.88	41.46	10.75	39.67	34.76	108	105	Peak	HORIZONTAL
4	11549.40	44.98	54.00	-9.02	29.32	10.75	39.67	34.76	108	105	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11216.00	55.69	74.00	-18.31	40.35	10.70	39.34	34.70	121	66	Peak	VERTICAL
2	11224.08	43.22	54.00	-10.78	27.85	10.70	39.38	34.71	121	66	Average	VERTICAL
3	11549.90	56.43	74.00	-17.57	40.77	10.75	39.67	34.76	117	125	Peak	VERTICAL
4	11551.32	43.85	54.00	-10.15	28.20	10.76	39.65	34.76	117	125	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 12 / CH 138+155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11376.30	56.44	74.00	-17.56	40.91	10.72	39.54	34.73	141	223	Peak	HORIZONTAL
2	11380.64	43.82	54.00	-10.18	28.29	10.72	39.54	34.73	141	223	Average	HORIZONTAL
3	11546.00	57.22	74.00	-16.78	41.56	10.75	39.67	34.76	133	343	Peak	HORIZONTAL
4	11553.20	44.16	54.00	-9.84	28.51	10.76	39.65	34.76	133	343	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11377.76	43.73	54.00	-10.27	28.20	10.72	39.54	34.73	123	112	Average	VERTICAL
2	11377.80	57.17	74.00	-16.83	41.64	10.72	39.54	34.73	123	112	Peak	VERTICAL
3	11545.10	43.97	54.00	-10.03	28.31	10.75	39.67	34.76	127	176	Average	VERTICAL
4	11552.82	57.39	74.00	-16.61	41.74	10.76	39.65	34.76	127	176	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 13 / CH 42+58 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15629.62	46.53	54.00	-7.47	30.00	13.38	38.34	35.19	173	93	Average	HORIZONTAL
2	15631.20	59.18	74.00	-14.82	42.65	13.38	38.34	35.19	173	93	Peak	HORIZONTAL
3	15869.28	46.83	54.00	-7.17	30.69	13.39	38.06	35.31	178	336	Average	HORIZONTAL
4	15871.70	60.12	74.00	-13.88	43.98	13.39	38.06	35.31	178	336	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15625.52	59.80	74.00	-14.20	43.27	13.38	38.34	35.19	183	127	Peak	VERTICAL
2	15632.70	46.61	54.00	-7.39	30.08	13.38	38.34	35.19	183	127	Average	VERTICAL
3	15871.92	46.59	54.00	-7.41	30.45	13.39	38.06	35.31	179	190	Average	VERTICAL
4	15874.22	59.10	74.00	-14.90	43.04	13.39	38.01	35.34	179	190	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 14 / CH 106+122 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11056.96	56.44	74.00	-17.56	41.31	10.67	39.14	34.68	132	26	Peak	HORIZONTAL
2	11063.58	43.41	54.00	-10.59	28.24	10.67	39.18	34.68	132	26	Average	HORIZONTAL
3	11218.78	56.67	74.00	-17.33	41.33	10.70	39.34	34.70	154	11	Peak	HORIZONTAL
4	11222.60	43.29	54.00	-10.71	27.92	10.70	39.38	34.71	154	11	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11056.10	43.44	54.00	-10.56	28.31	10.67	39.14	34.68	159	21	Average	VERTICAL
2	11059.76	55.92	74.00	-18.08	40.79	10.67	39.14	34.68	159	21	Peak	VERTICAL
3	11219.10	56.22	74.00	-17.78	40.88	10.70	39.34	34.70	156	66	Peak	VERTICAL
4	11219.64	43.13	54.00	-10.87	27.79	10.70	39.34	34.70	156	66	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 15 / CH 122+138 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 30, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11219.28	56.66	74.00	-17.34	41.32	10.70	39.34	34.70	102	119	Peak	HORIZONTAL
2	11219.80	43.11	54.00	-10.89	27.77	10.70	39.34	34.70	102	119	Average	HORIZONTAL
3	11378.70	44.95	54.00	-9.05	29.42	10.72	39.54	34.73	107	174	Average	HORIZONTAL
4	11379.92	56.68	74.00	-17.32	41.15	10.72	39.54	34.73	107	174	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11215.92	43.18	54.00	-10.82	27.84	10.70	39.34	34.70	175	90	Average	VERTICAL
2	11224.20	56.14	74.00	-17.86	40.77	10.70	39.38	34.71	175	90	Peak	VERTICAL
3	11377.68	56.49	74.00	-17.51	40.96	10.72	39.54	34.73	173	20	Peak	VERTICAL
4	11384.48	43.85	54.00	-10.15	28.27	10.73	39.58	34.73	173	20	Average	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For beamforming mode

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15536.10	47.74	54.00	-6.26	31.05	13.38	38.45	35.14	216	203	Average	HORIZONTAL
2	15540.22	61.46	74.00	-12.54	44.77	13.38	38.45	35.14	216	203	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15535.54	47.78	54.00	-6.22	31.09	13.38	38.45	35.14	218	130	Average	VERTICAL
2	15535.78	60.44	74.00	-13.56	43.75	13.38	38.45	35.14	218	130	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15598.56	49.15	54.00	-4.85	32.54	13.38	38.39	35.16	135	169	Average	HORIZONTAL
2	15603.94	62.41	74.00	-11.59	45.88	13.38	38.34	35.19	135	169	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15602.68	60.30	74.00	-13.70	43.77	13.38	38.34	35.19	141	213	Peak	VERTICAL
2	15602.76	47.55	54.00	-6.45	31.02	13.38	38.34	35.19	141	213	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15715.64	46.99	54.00	-7.01	30.61	13.39	38.23	35.24	142	298	Average	HORIZONTAL
2	15723.22	59.98	74.00	-14.02	43.60	13.39	38.23	35.24	142	298	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15715.02	47.28	54.00	-6.72	30.90	13.39	38.23	35.24	138	263	Average	VERTICAL
2	15723.34	59.18	74.00	-14.82	42.80	13.39	38.23	35.24	138	263	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15778.90	60.24	74.00	-13.76	43.94	13.39	38.17	35.26	155	89	Peak	HORIZONTAL
2	15783.94	47.10	54.00	-6.90	30.88	13.39	38.12	35.29	155	89	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15776.86	60.17	74.00	-13.83	43.87	13.39	38.17	35.26	155	36	Peak	VERTICAL
2	15780.54	47.24	54.00	-6.76	30.94	13.39	38.17	35.26	155	36	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10597.68	42.52	54.00	-11.48	27.85	10.59	38.94	34.86	156	242	Average	HORIZONTAL
2	10602.74	55.75	74.00	-18.25	41.08	10.59	38.94	34.86	156	242	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10595.02	42.66	54.00	-11.34	27.99	10.59	38.94	34.86	158	54	Average	VERTICAL
2	10602.00	55.60	74.00	-18.40	40.93	10.59	38.94	34.86	158	54	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10637.34	42.58	54.00	-11.42	27.87	10.60	38.95	34.84	152	316	Average	HORIZONTAL
2	10640.00	55.53	74.00	-18.47	40.82	10.60	38.95	34.84	152	316	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10636.92	42.41	54.00	-11.59	27.70	10.60	38.95	34.84	141	201	Average	VERTICAL
2	10639.26	55.88	74.00	-18.12	41.17	10.60	38.95	34.84	141	201	Peak	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10995.66	42.65	54.00	-11.35	27.58	10.66	39.09	34.68	139	84	Average	HORIZONTAL
2	10999.98	55.14	74.00	-18.86	40.05	10.66	39.10	34.67	139	84	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11001.36	55.58	74.00	-18.42	40.49	10.66	39.10	34.67	137	135	Peak	VERTICAL
2	11004.08	42.67	54.00	-11.33	27.58	10.66	39.10	34.67	137	135	Average	VERTICAL

Temperature	22°C	Humidity	54%
Test Engineer	Zero Chen & Stim Sung & Steven Liang	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Jul. 31, 2016		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11159.62	55.73	74.00	-18.27	40.44	10.69	39.30	34.70	149	68	Peak	HORIZONTAL
2	11163.72	43.75	54.00	-10.25	28.46	10.69	39.30	34.70	149	68	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	11155.48	42.97	54.00	-11.03	27.71	10.69	39.26	34.69	148	147	Average	VERTICAL
2	11157.20	55.58	74.00	-18.42	40.29	10.69	39.30	34.70	148	147	Peak	VERTICAL