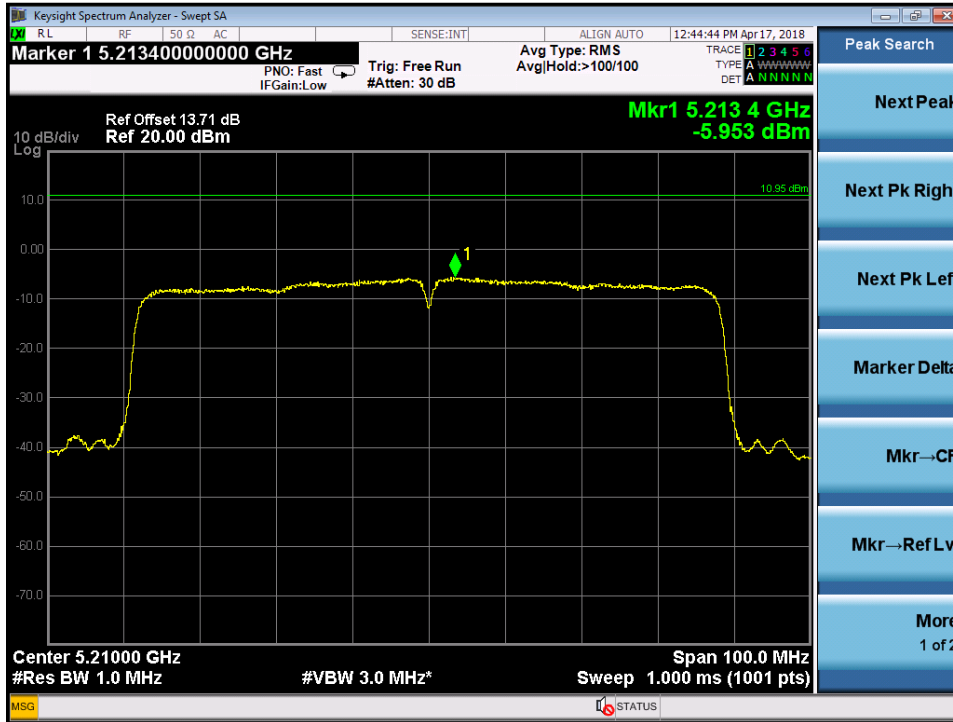
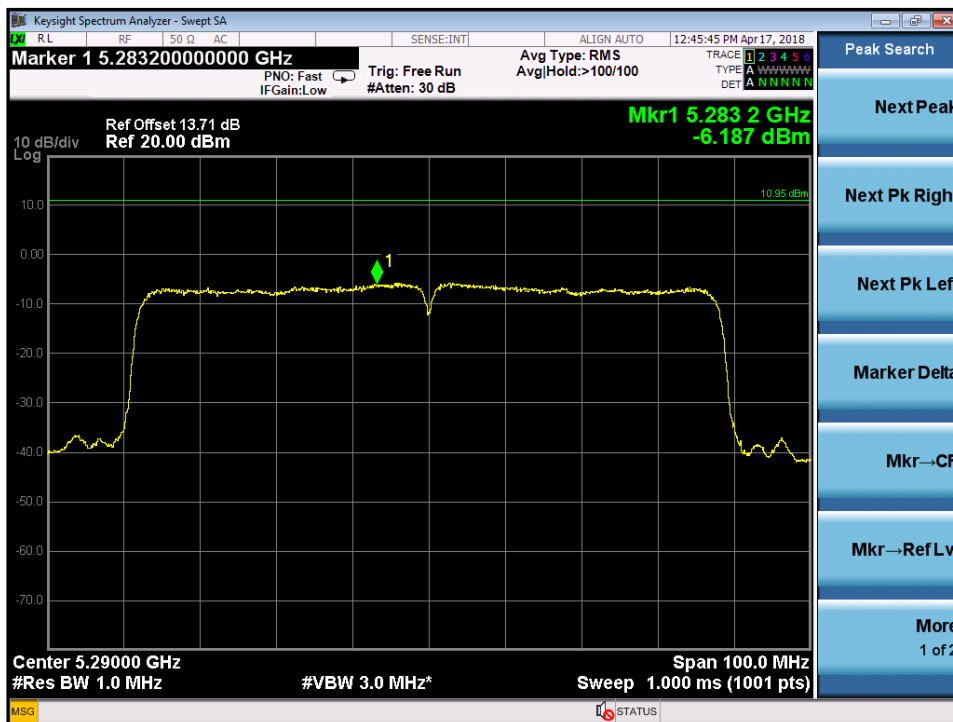
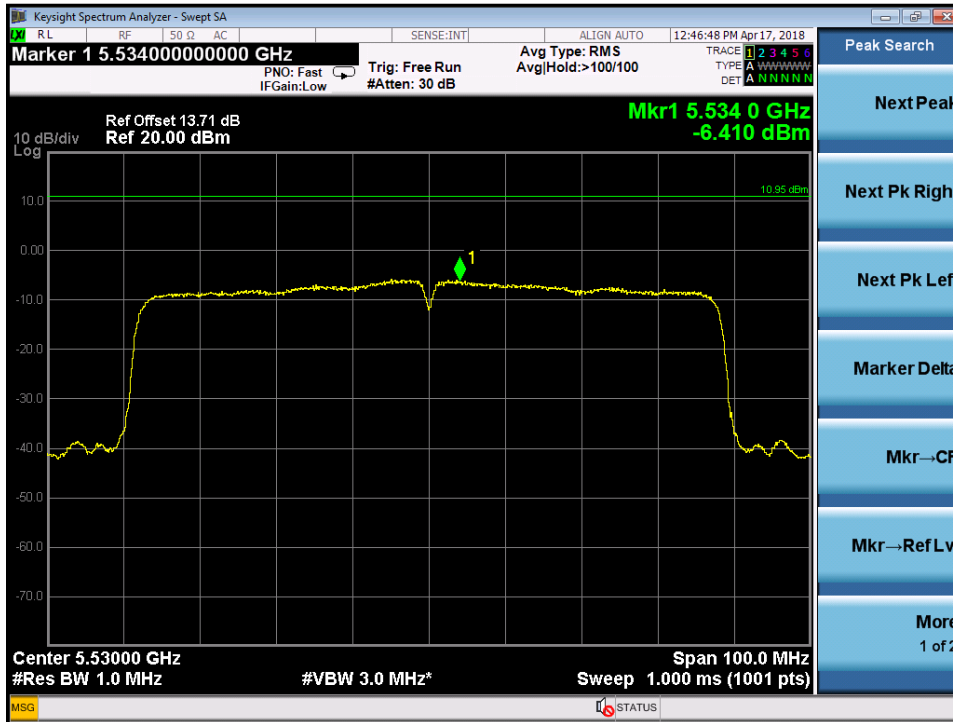
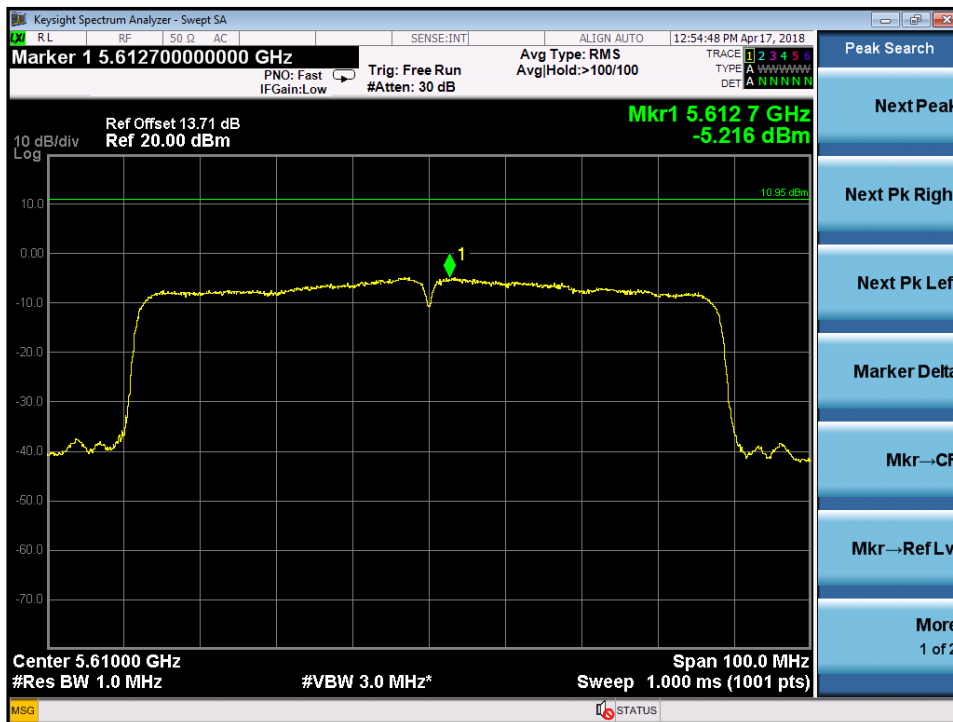
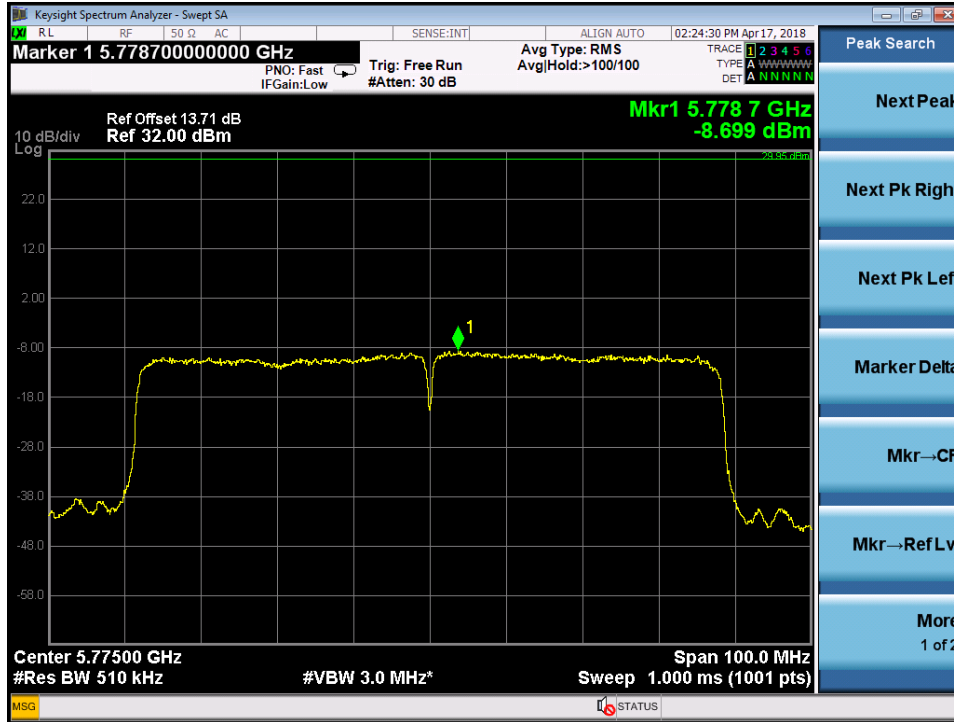
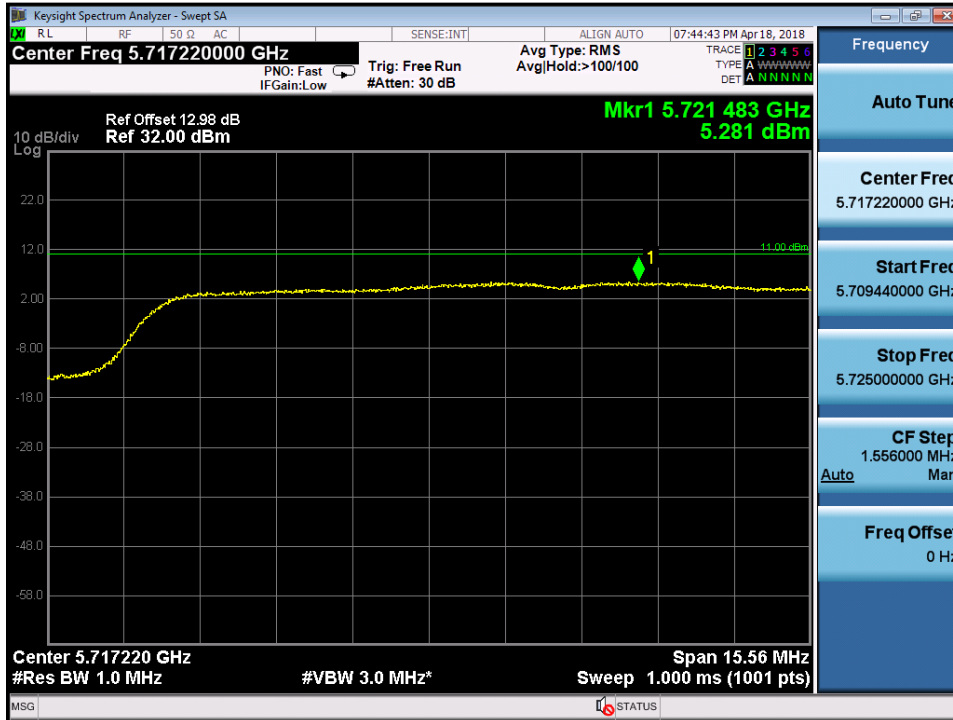
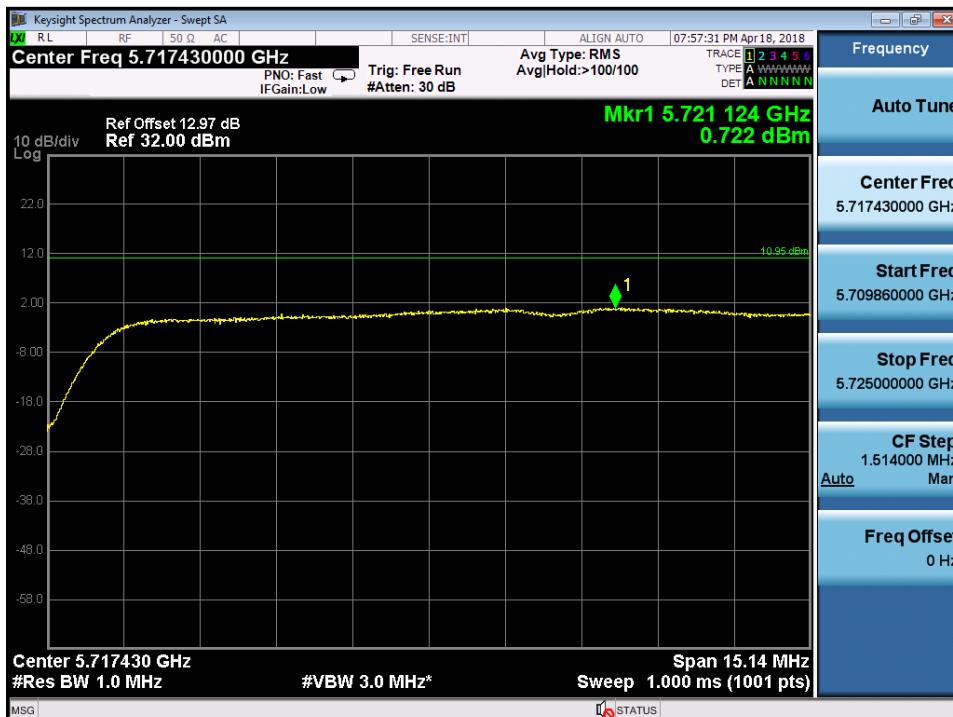


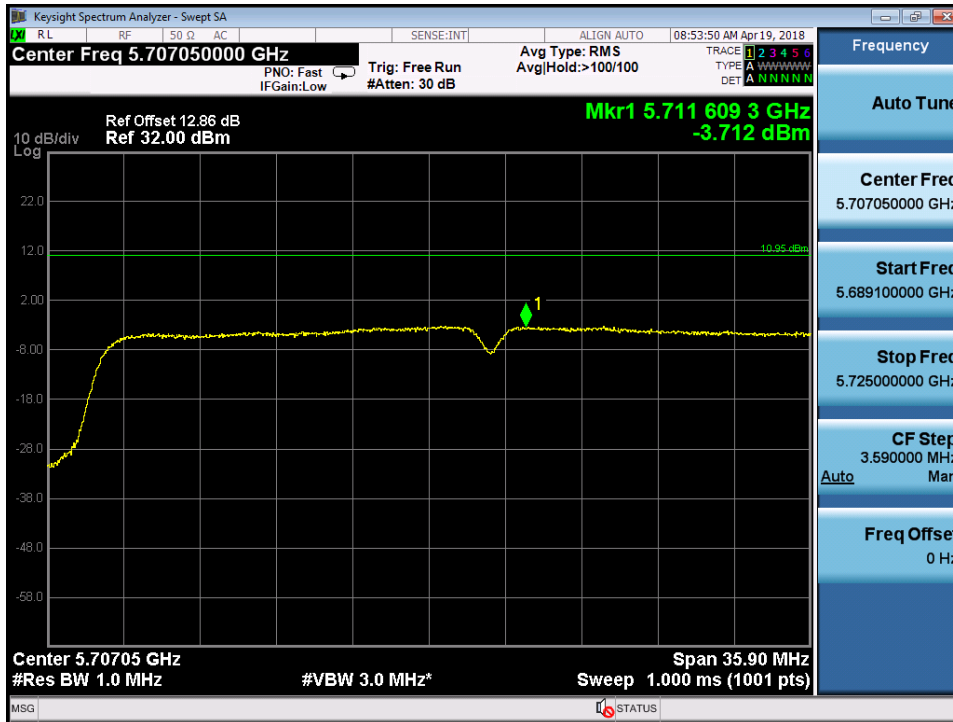
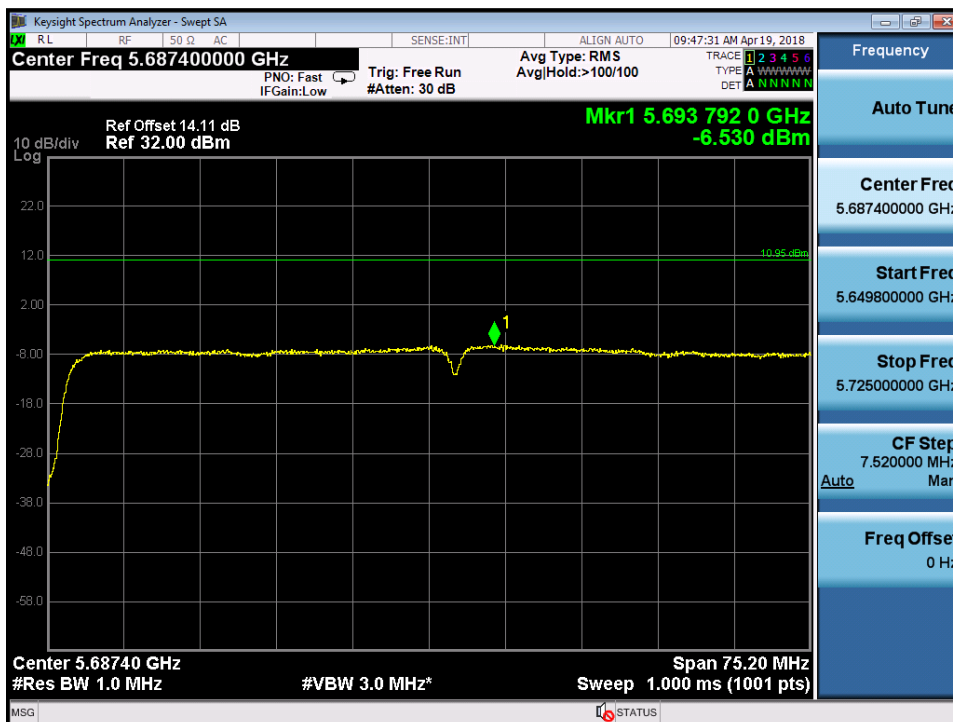
Antenna2: (5150-5350MHz)
5210MHz

5290MHz


Antenna2: (5470-5825MHz)
5530MHz

5610MHz


5775MHz


Test Plot of Power Density (Straddle Channel), for FCC

Antenna1: U-NII-2C
802.11a 5720MHz

802.11ac VHT20 5720MHz


802.11ac VHT 40 5710MHz

802.11ac VHT 80 5690MHz


Test Plot of Power Density (Straddle Channel), for FCC

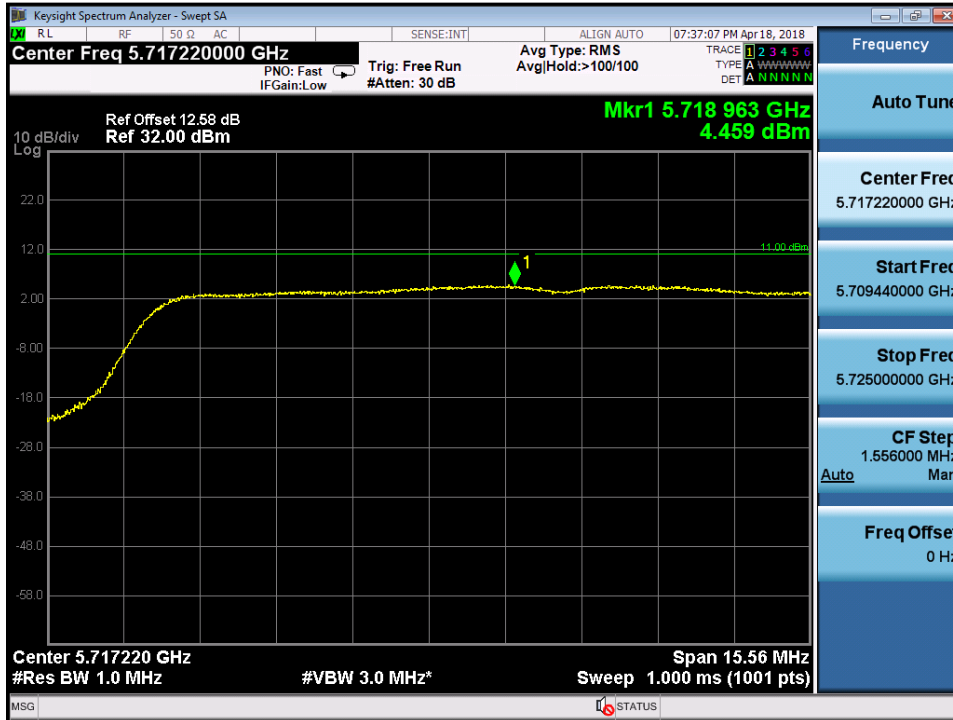
Antenna1: U-NII-3
802.11a 5720MHz

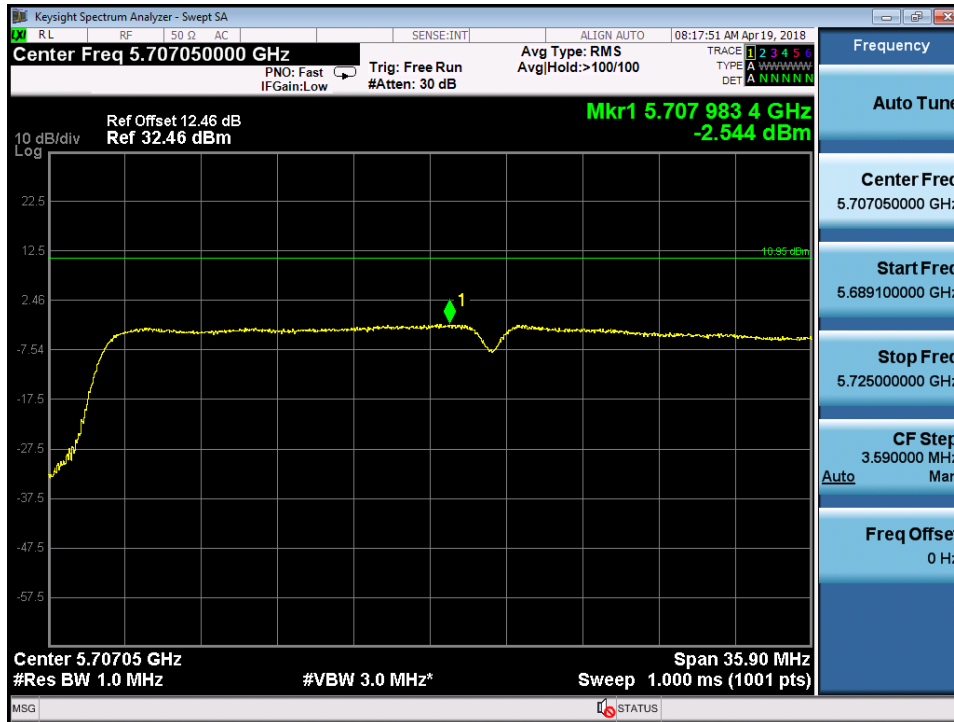
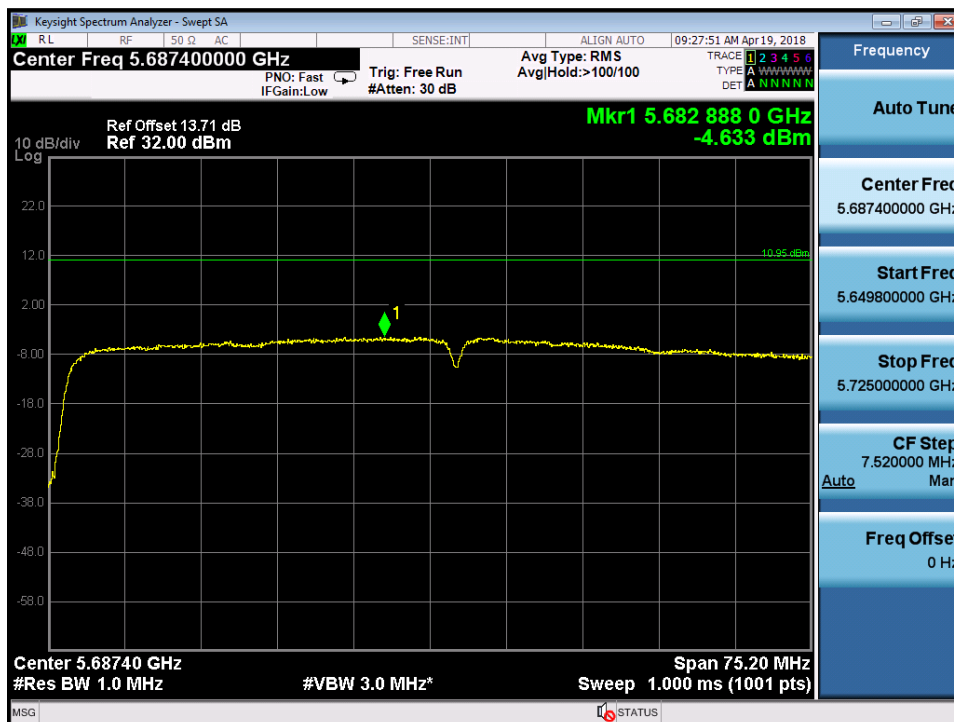
802.11ac VHT 20 5720MHz


802.11ac VHT40 5710MHz

802.11ac VHT80 5690MHz

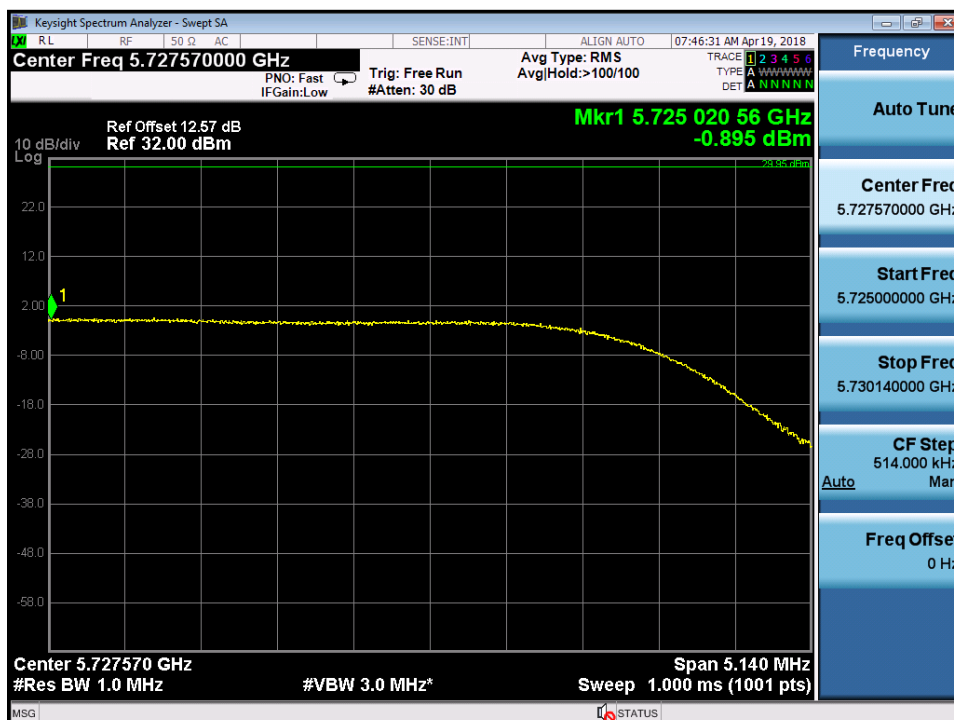

Test Plot of Power Density (Straddle Channel), for FCC

Antenna2: U-NII-2C
802.11a 5720MHz

802.11ac VHT20 5720MHz


802.11ac VHT40 5710MHz

802.11ac VHT80 5690MHz


Test Plot of Power Density (Straddle Channel), for FCC

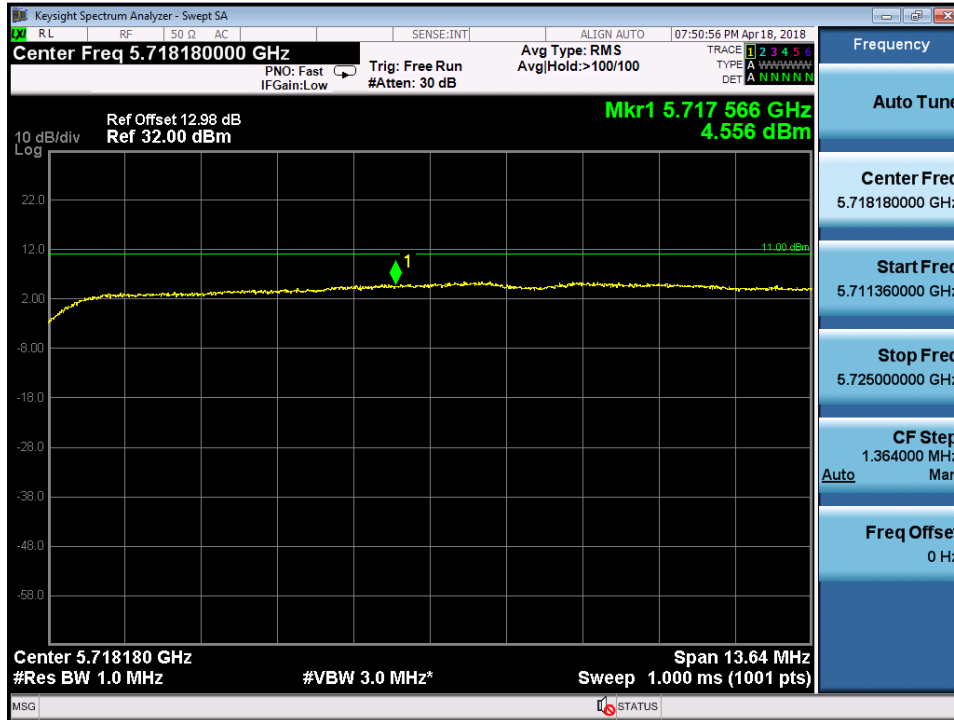
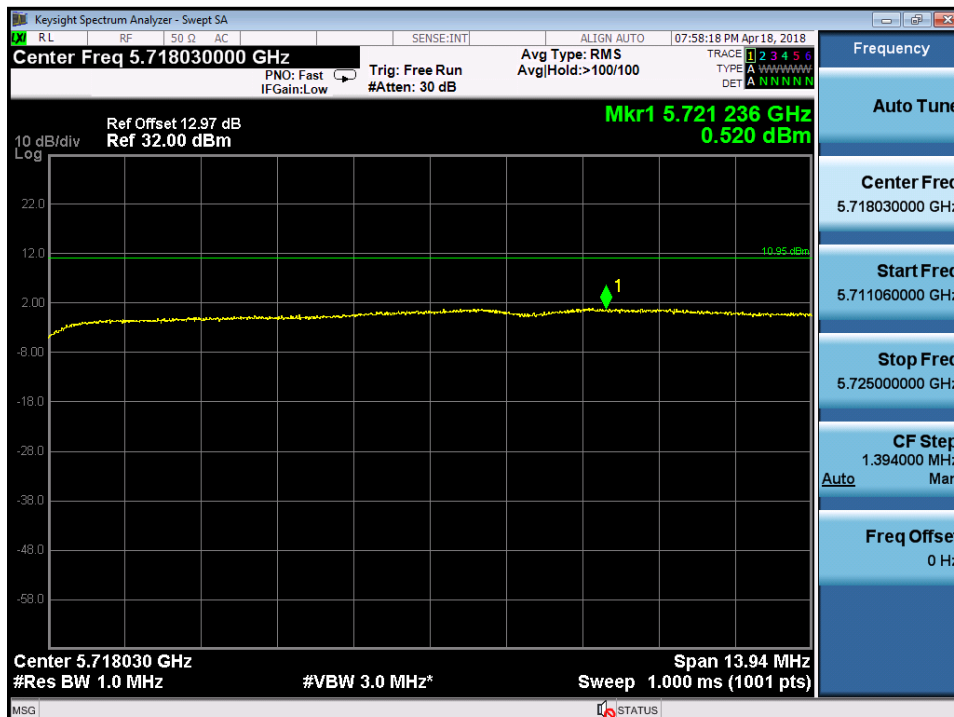
Antenna2: U-NII-3
802.11a 5720MHz

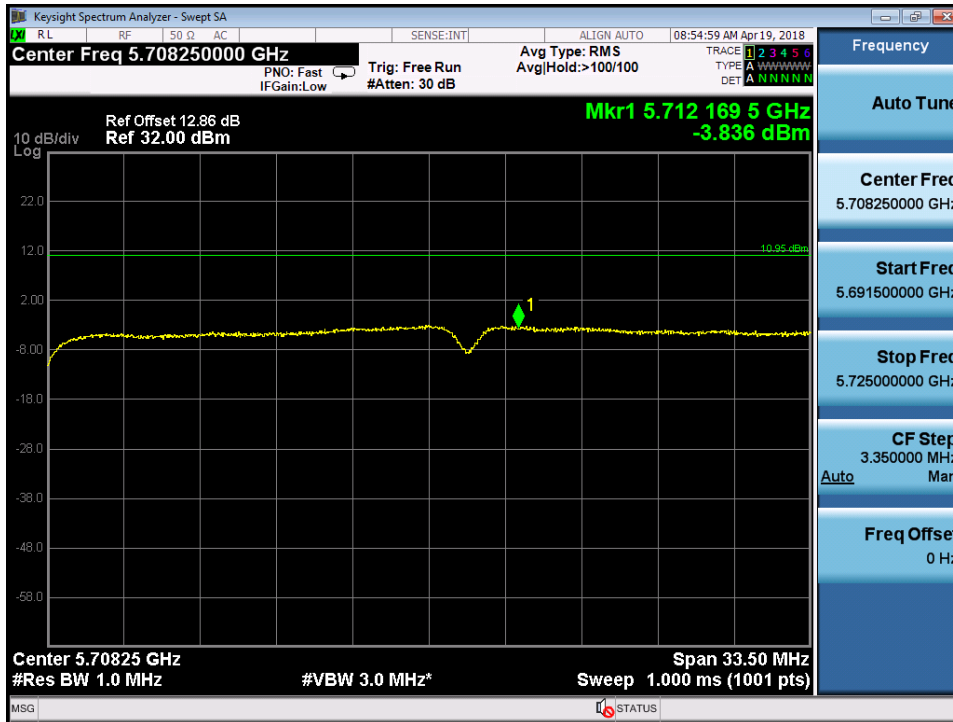
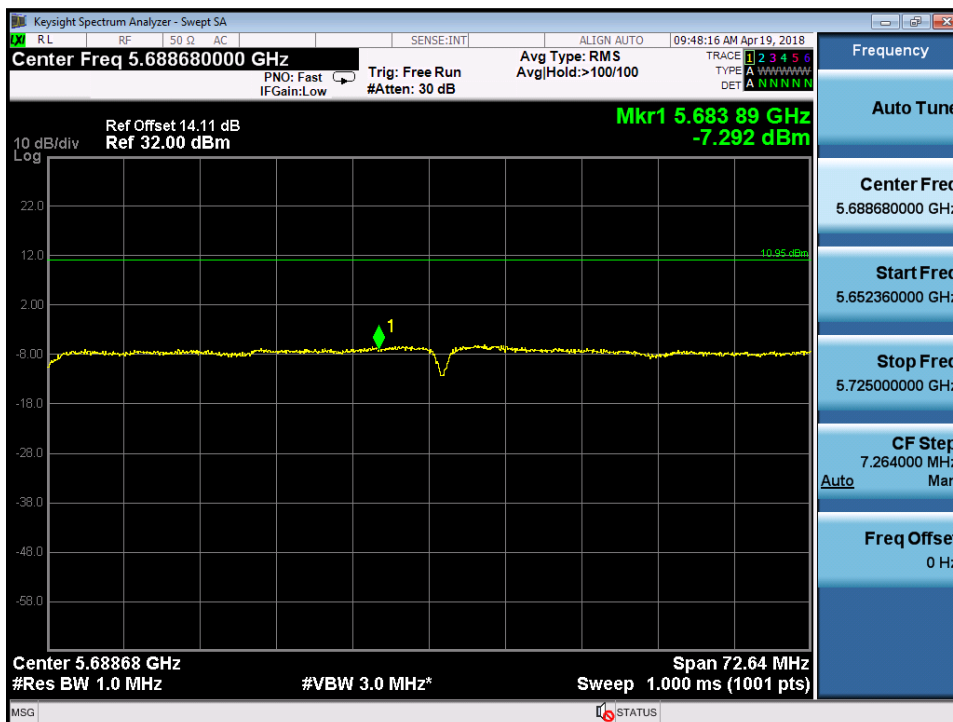
802.11ac VHT20 5720MHz


802.11ac VHT40 5710MHz

802.11ac VHT80 5690MHz

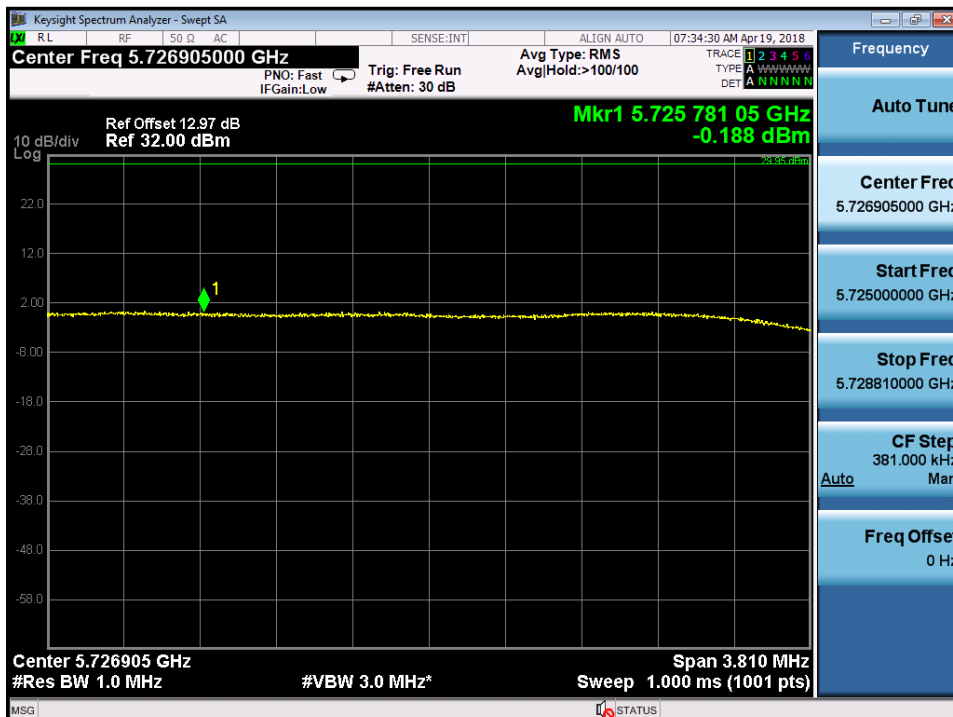

Test Plot of Power Density (Straddle Channel), for ISED

Antenna1: U-NII-2C
802.11a 5720MHz

802.11ac VHT20 5720MHz


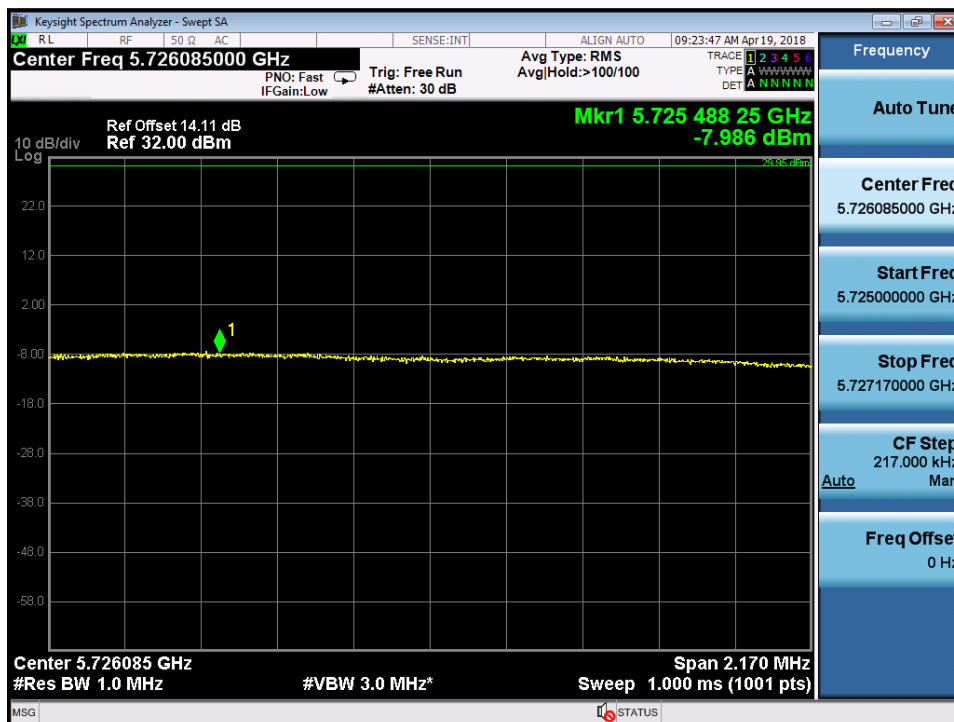
802.11ac VHT40 5710MHz

802.11ac VHT80 5690MHz


Test Plot of Power Density (Straddle Channel), for ISED

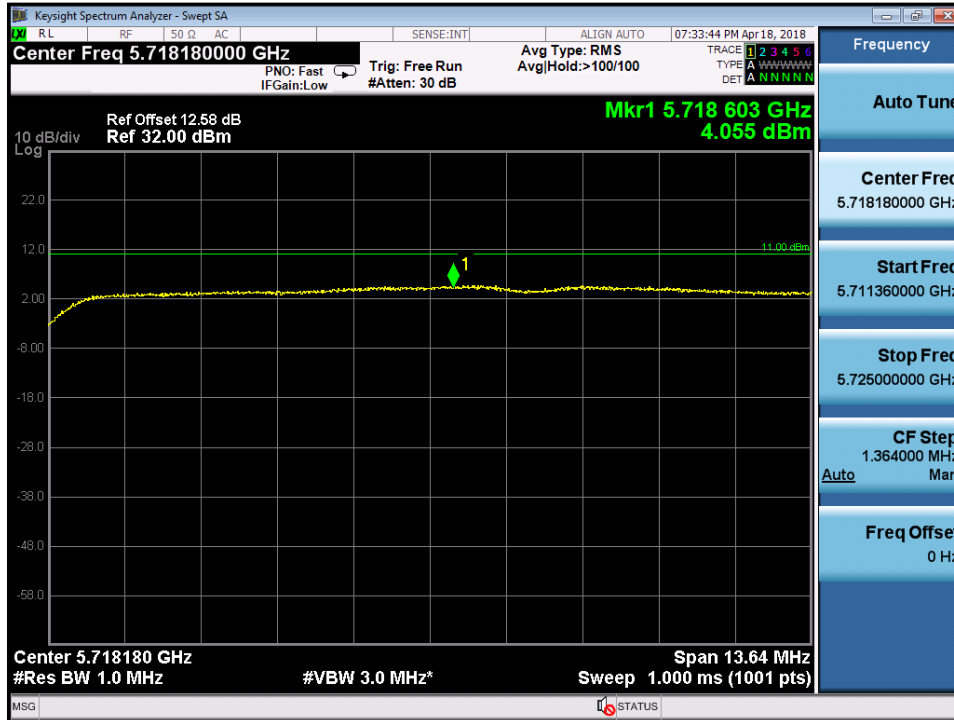
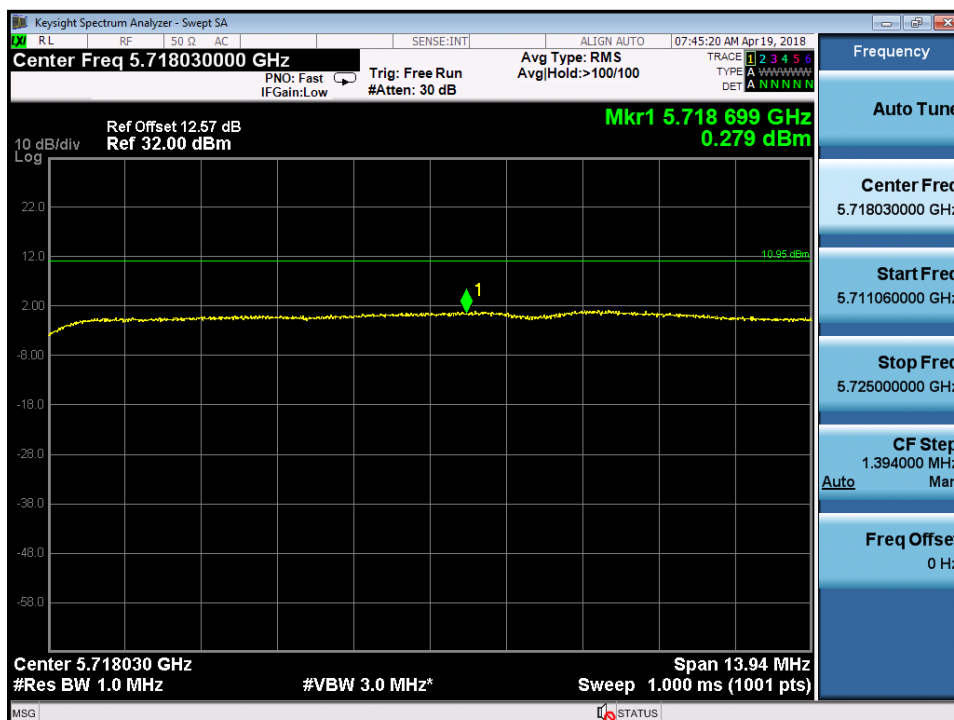
Antenna1: U-NII-3
802.11a 5720MHz

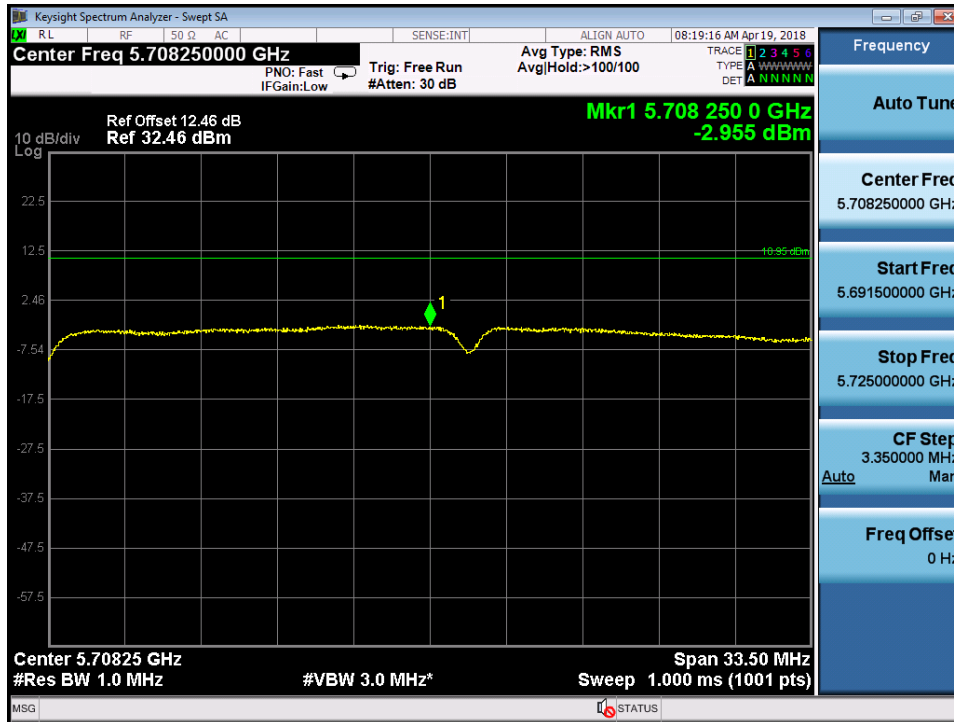
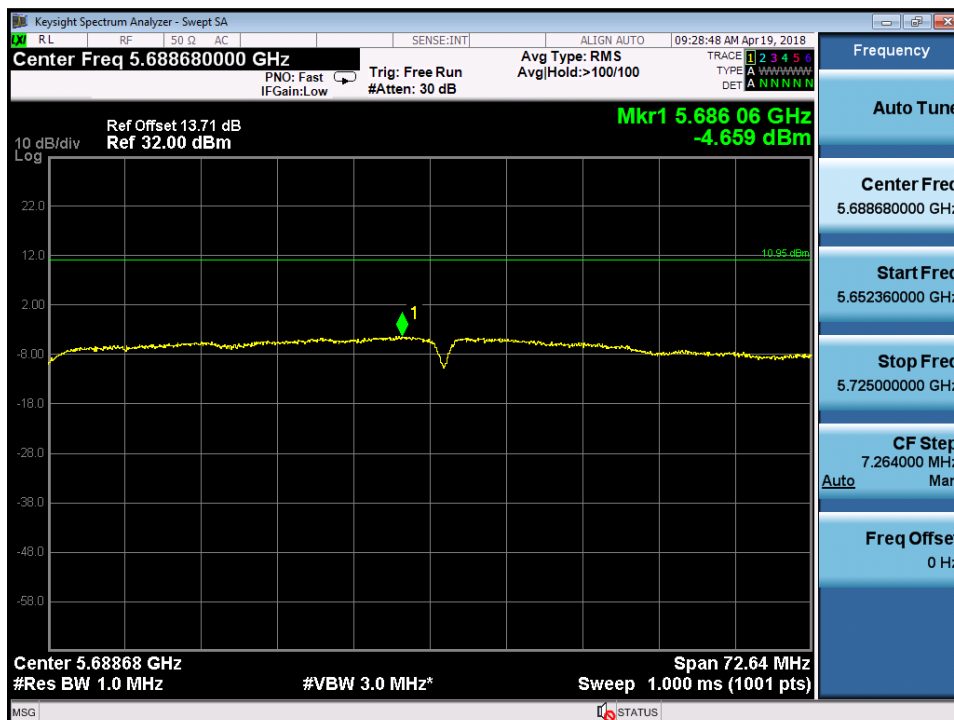
802.11ac VHT20 5720MHz


802.11ac VHT40 5710MHz

802.11ac VHT80 5690MHz


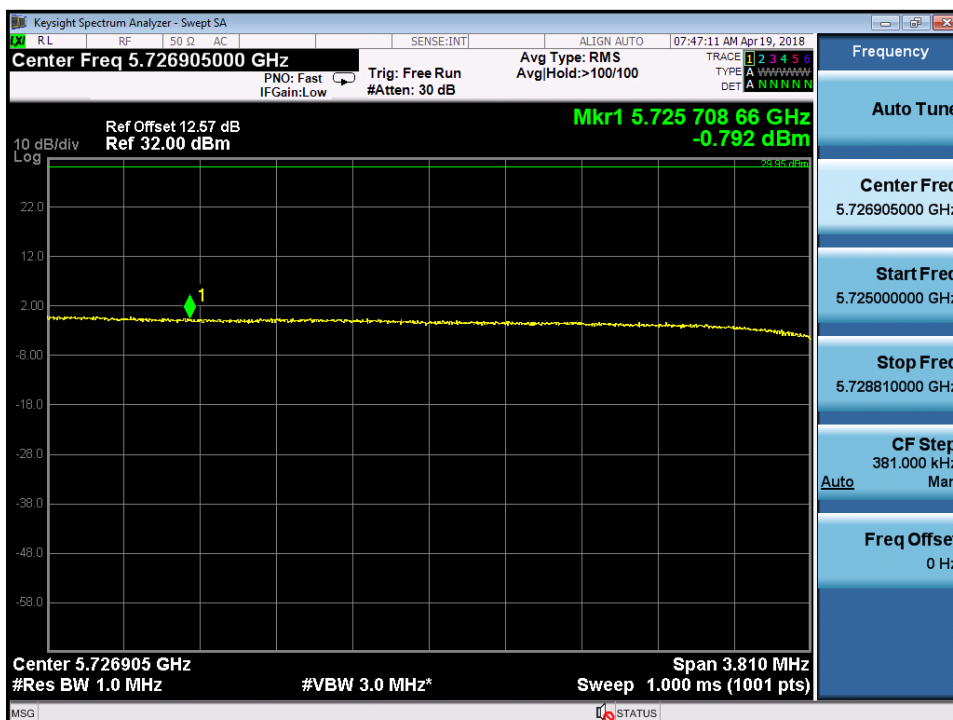
Test Plot of Power Density (Straddle Channel), for ISED

Antenna2: U-NII-2C
802.11a 5720MHz

802.11ac VHT20 5720MHz


802.11ac VHT40 5710MHz

802.11ac VHT80 5690MHz


Test Plot of Power Density (Straddle Channel), for ISED

Antenna2: U-NII-3
802.11a 5720MHz

802.11ac VHT20 5720MHz


802.11ac VHT40 5710MHz

802.11ac VHT80 5690MHz


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5.1.7 Mask Emission

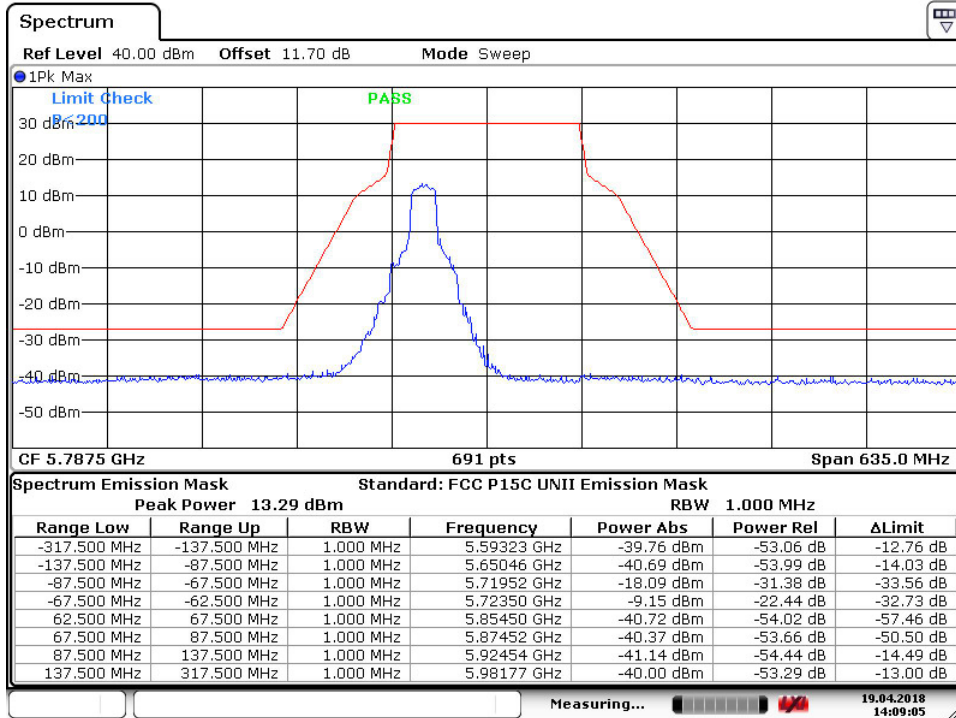
RESULT:

Passed

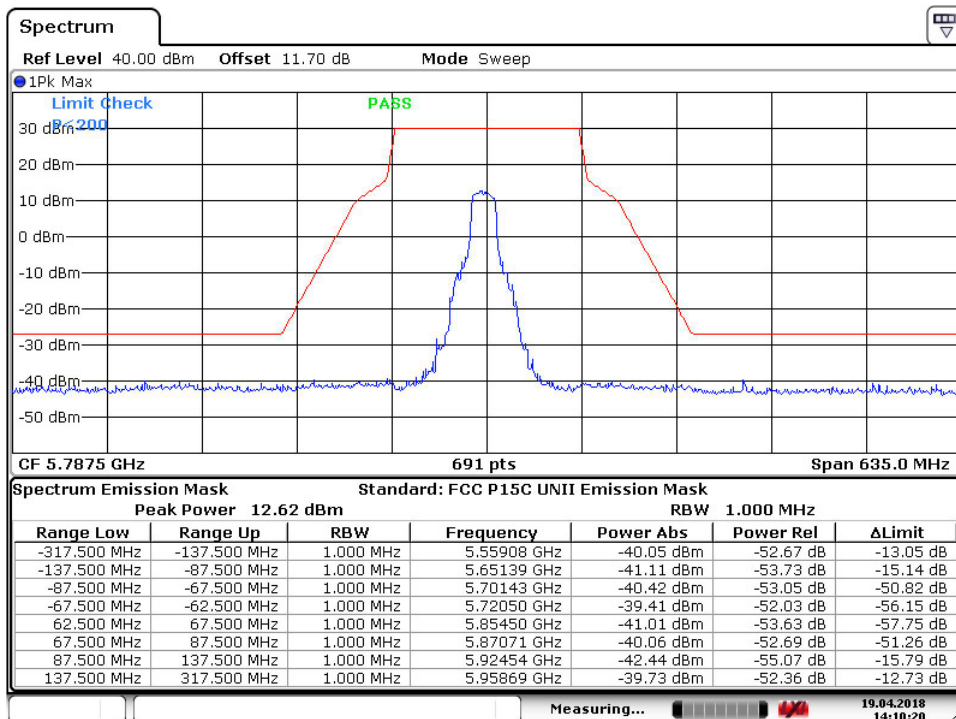
Test standard : FCC 15.407(b)(4) RSS-247 6.2.4.2 and RSS-Gen 8.9
Basic standard : ANSI C63.10: 2013
Limits : FCC15.407(b)(4),RSS-247 6.2.4.2
Kind of test site : Shielded room

Test setup

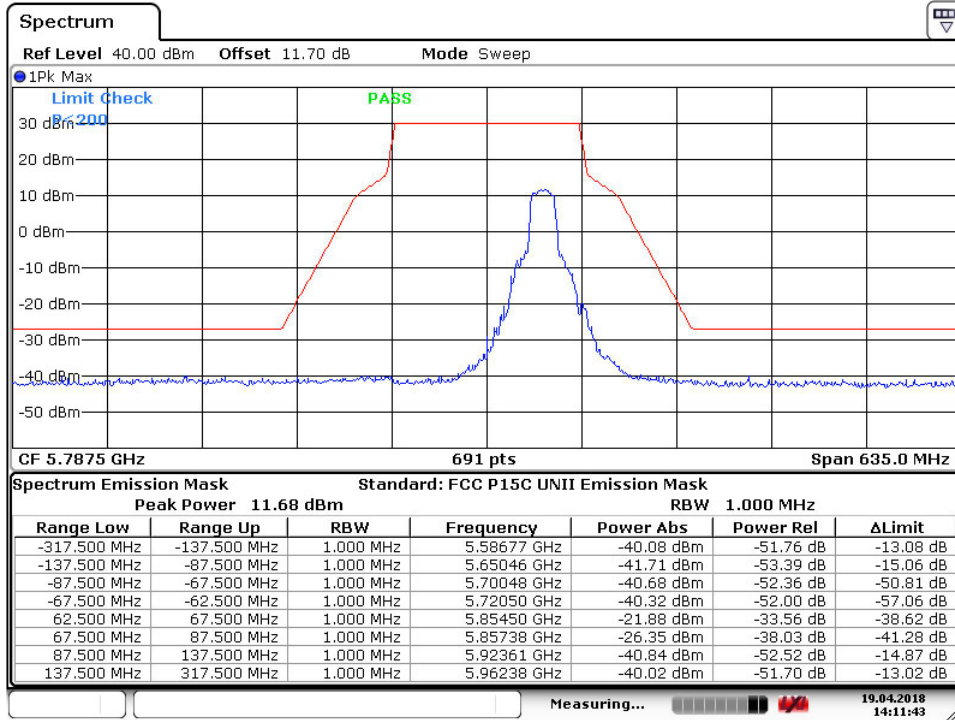
Test Channel : 5745, 5755, 5775, 5785, 5795, 5825 (MHz)
Operation mode : A

802.11a 5745MHz


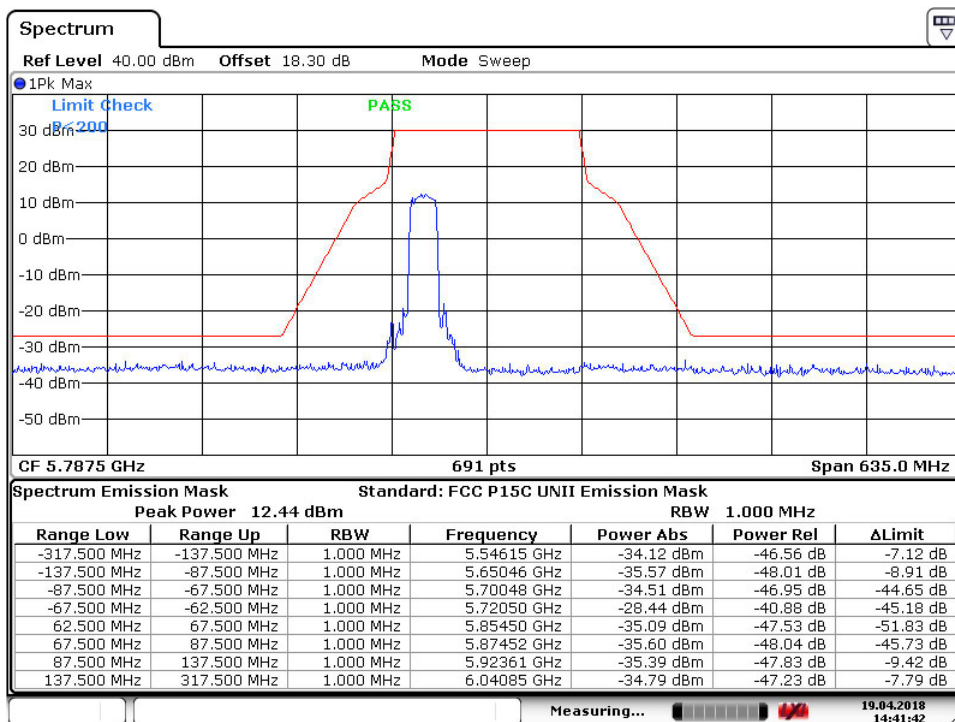
Date: 19.APR.2018 14:09:05

802.11a 5785MHz


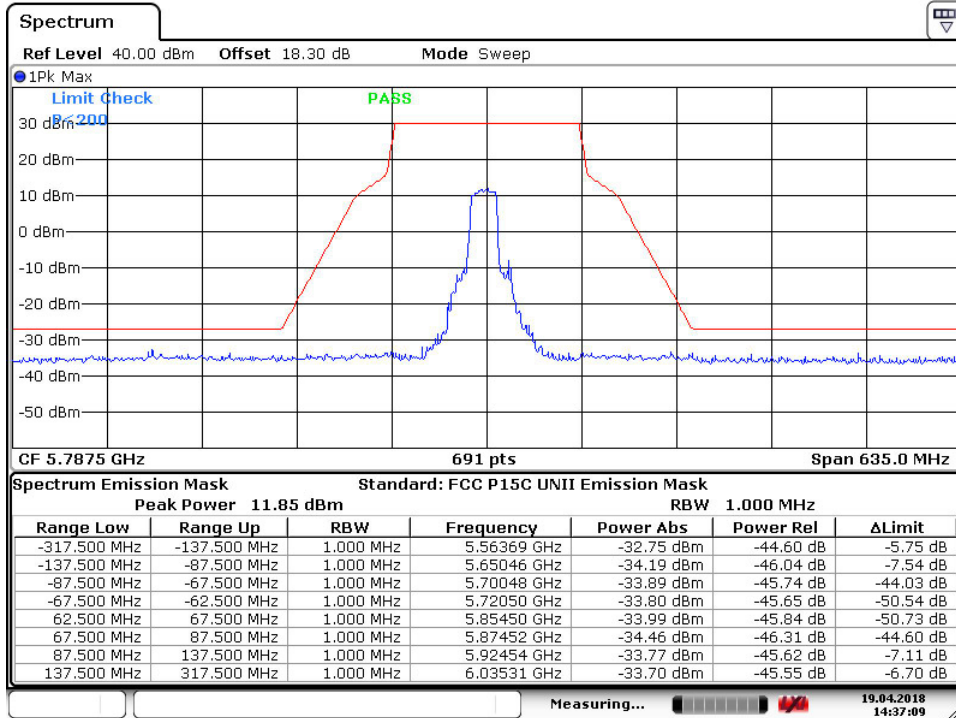
Date: 19.APR.2018 14:10:20

802.11a 5825MHz


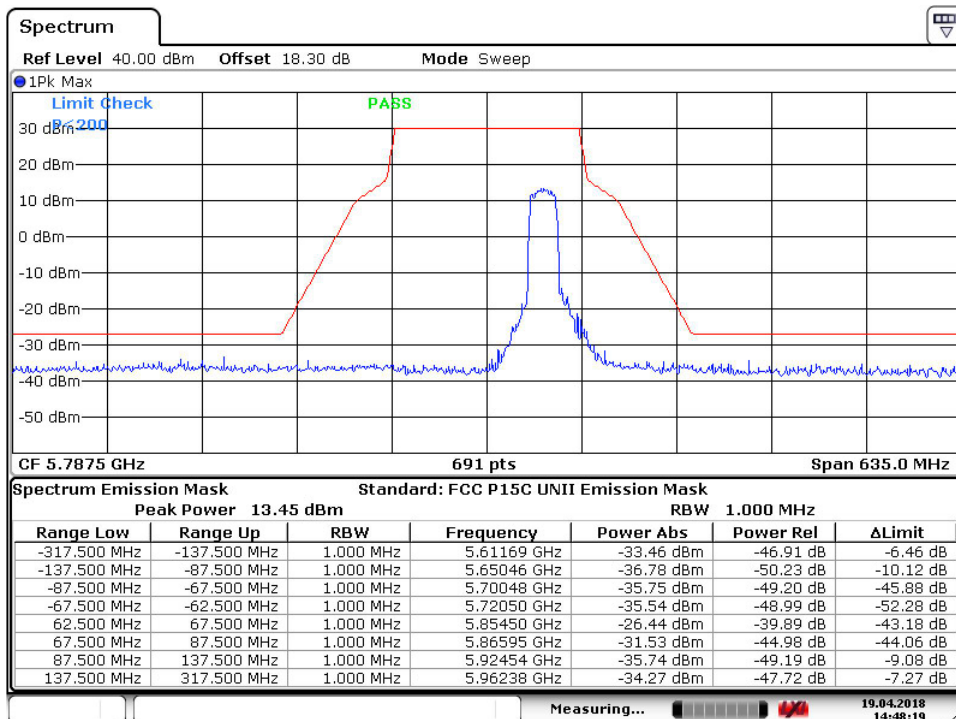
Date: 19.APR.2018 14:11:43

802.11ac20 5745MHz


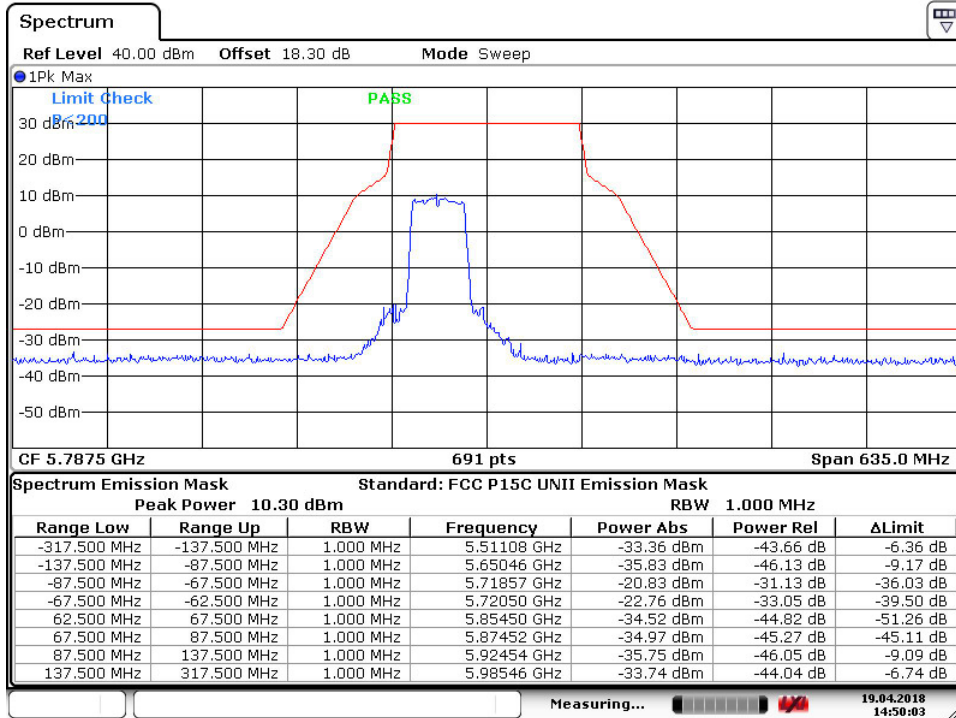
Date: 19.APR.2018 14:41:42

802.11ac20 5785MHz


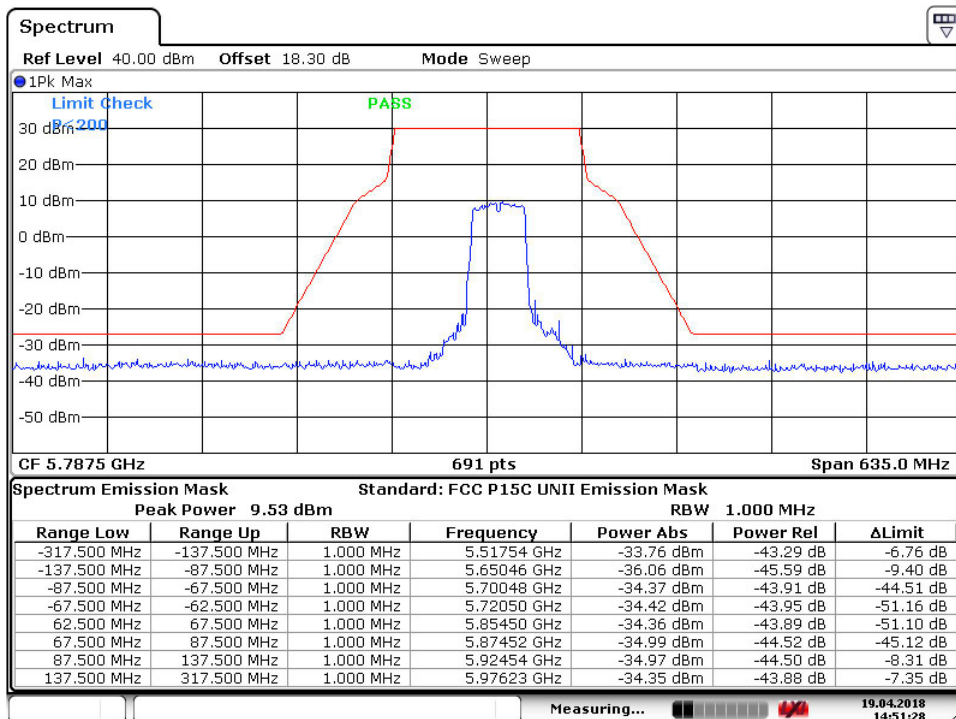
Date: 19.APR.2018 14:37:09

802.11ac20 5825MHz


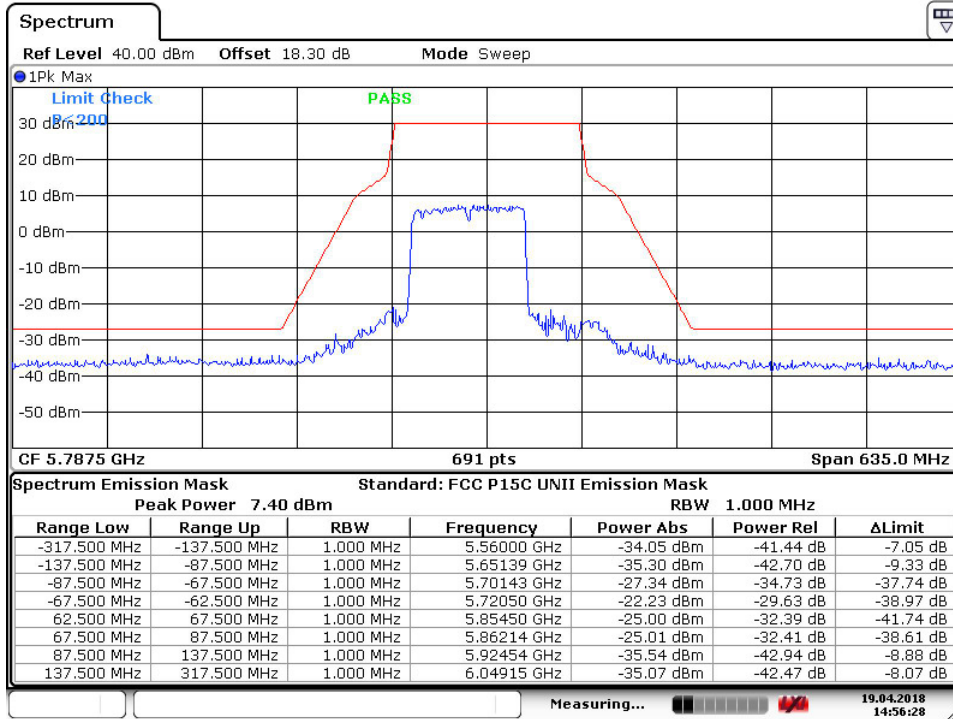
Date: 19.APR.2018 14:48:19

802.11ac40 5755MHz


Date: 19.APR.2018 14:50:03

802.11ac40 5795MHz


Date: 19.APR.2018 14:51:28

802.11ac80 5775MHz


Date: 19.APR.2018 14:56:28

5.1.8 Spurious Emission

RESULT:**Passed**

Test standard	:	FCC 15.205, FCC 15.209, FCC15.407, RSS-210 2.2, RSS-210 A8.5 and RSS-Gen 7.2.1
Basic standard	:	ANSI C63.10: 2013
Limits	:	Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-210 2.7 (Table 1), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-210 2.7 (Table 2 and 3). Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in FCC 15.209(a) and FCC 15.249(a), RSS-247 6.2, RSS-210 2.7 (Table 2 and 3) and RSS-210 A2.9(a).
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Refer to APPENDIXD
Operation mode	:	A, B

Remark: Testing was carried out within frequency range 30MHz to the tenth harmonic. For details refer to Appendix D. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The Z Axis orientation is the worst-case and recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:
Passed

Test standard : FCC KDB Publication 447498 D01 v06
 47 C.F.R. §§ 1.1310
 RSS-102 Issue 5

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied.

Maximum Exposure:

Power to Antenna (mW)	39.81 mW
Power to Antenna (dBm)	16.0 dBm
Antenna Gain	3.54 dBi
Power+Ant Gain	89.9 mW
Distance	20 cm
S=	0.018 mW/cm ²

Limit FCC:

0.3-1.34 MHz (100) mW/cm²
 1.34-30 MHz (180/f2) mW/cm²
 30-300 MHz 0.2 mW/cm²
 300-1500 MHz f/1500 mW/cm²
1500-100,000 MHz 1.0 mW/cm²

Limit Canada: 0.975 mW/cm²

---End---

6.2 Mains Emissions

6.2.1 Mains Conducted Emissions

RESULT:**Passed**

Test standard : FCC Part 15.207
FCC Part 15.107
RSS-Gen 8.8

Limits : Mains Conducted emissions as defined in
above standards

Kind of test site : Shielded Room

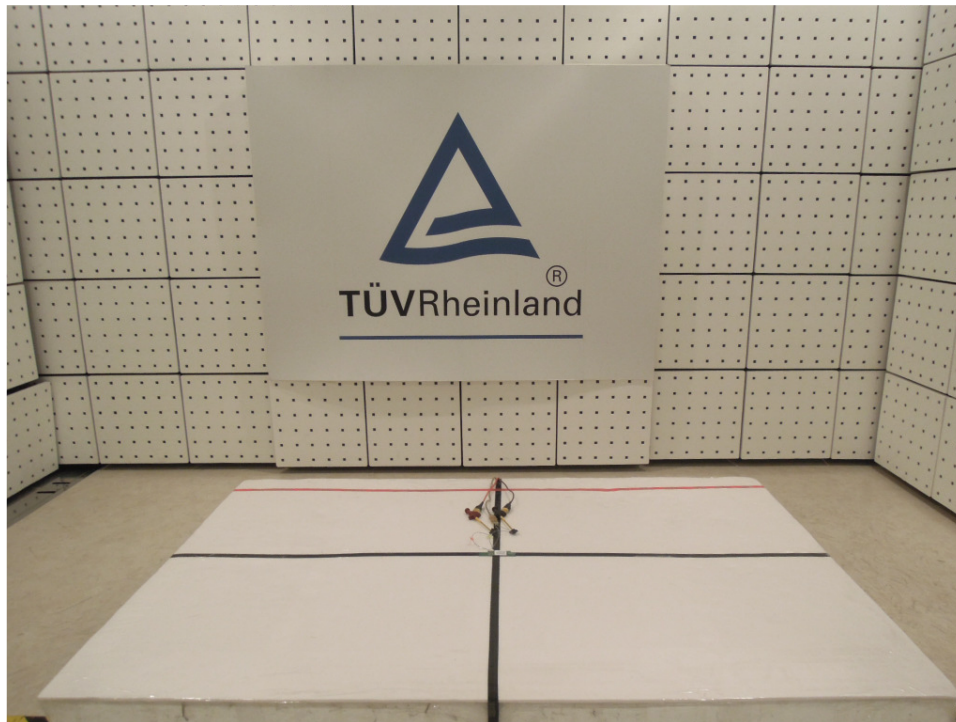
Test setup

Operation mode : C

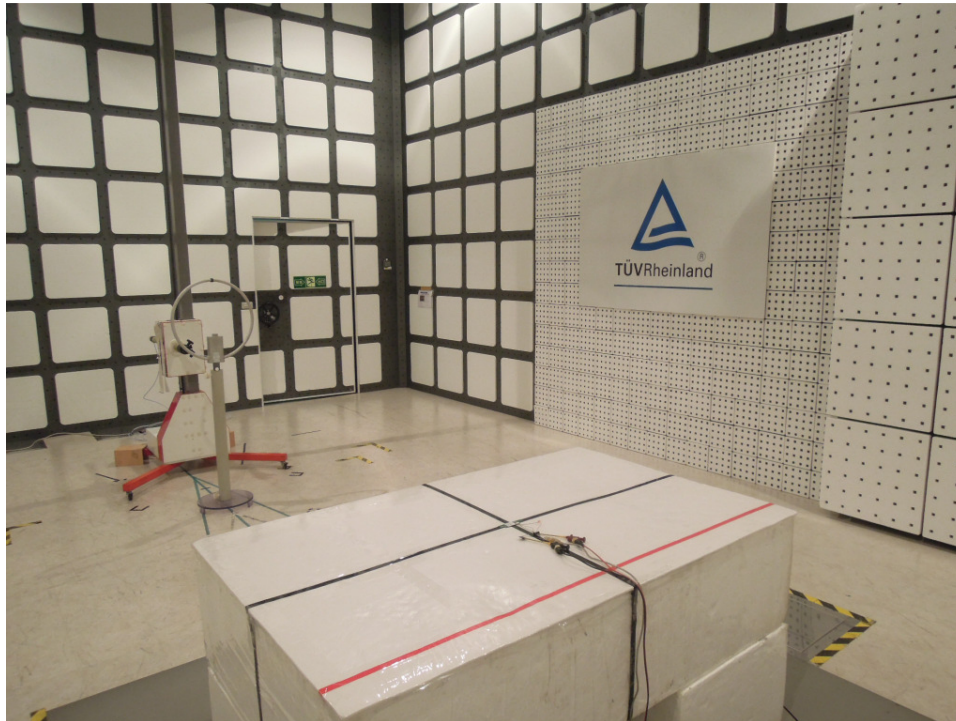
Remark: For details refer to Appendix D.

Photographs of the Test Set-Up

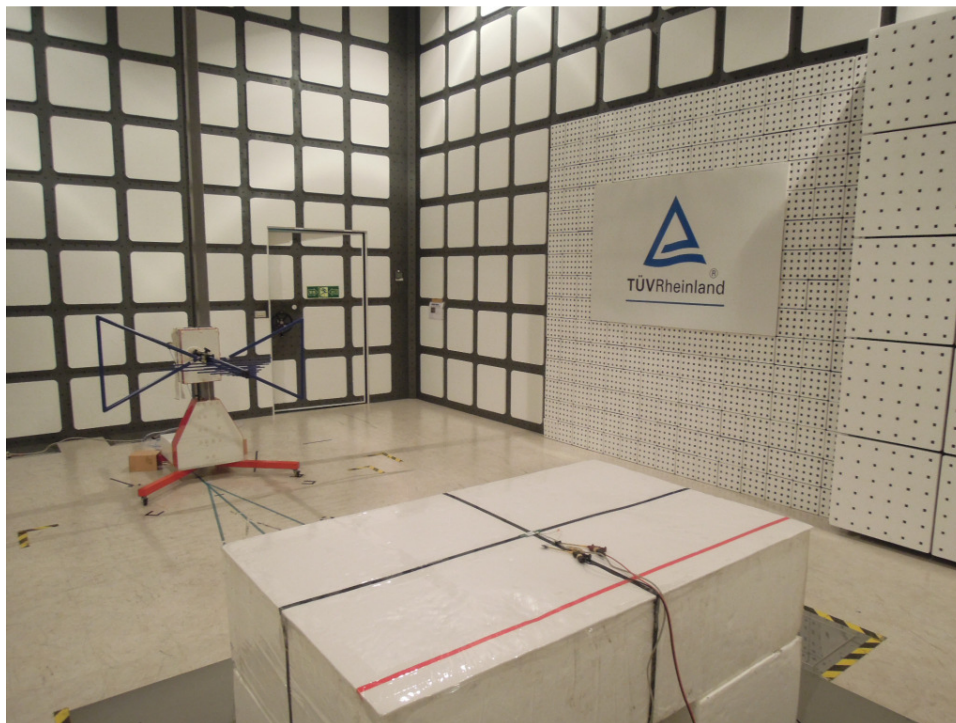
Photograph 1: Set-up for Spurious Emissions (Front View)



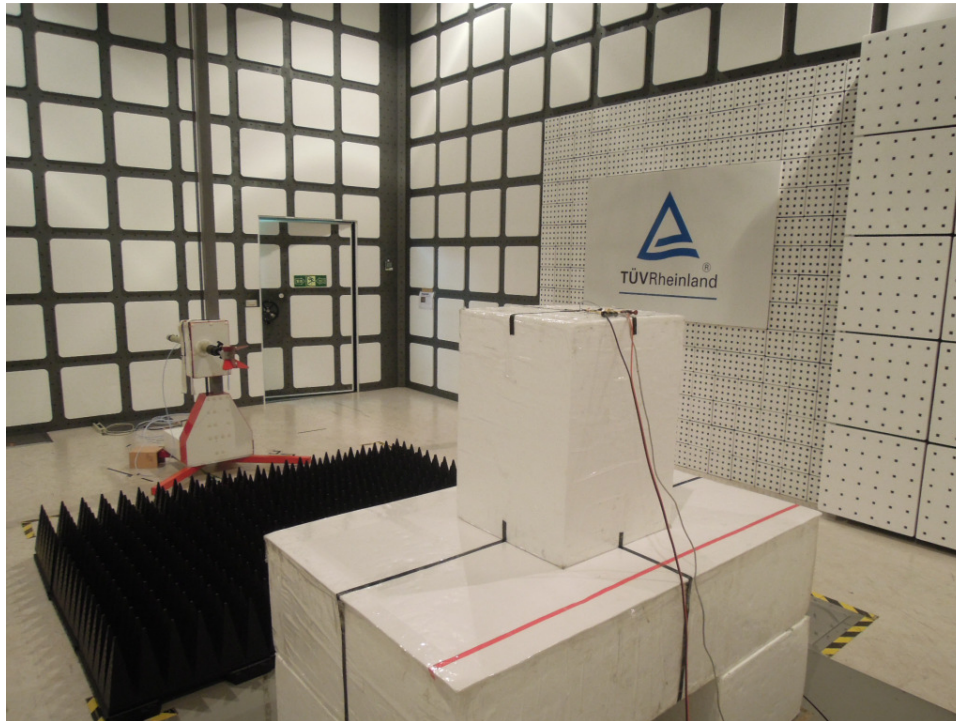
Photograph 2: Set-up for Spurious Emissions (Back View 1)



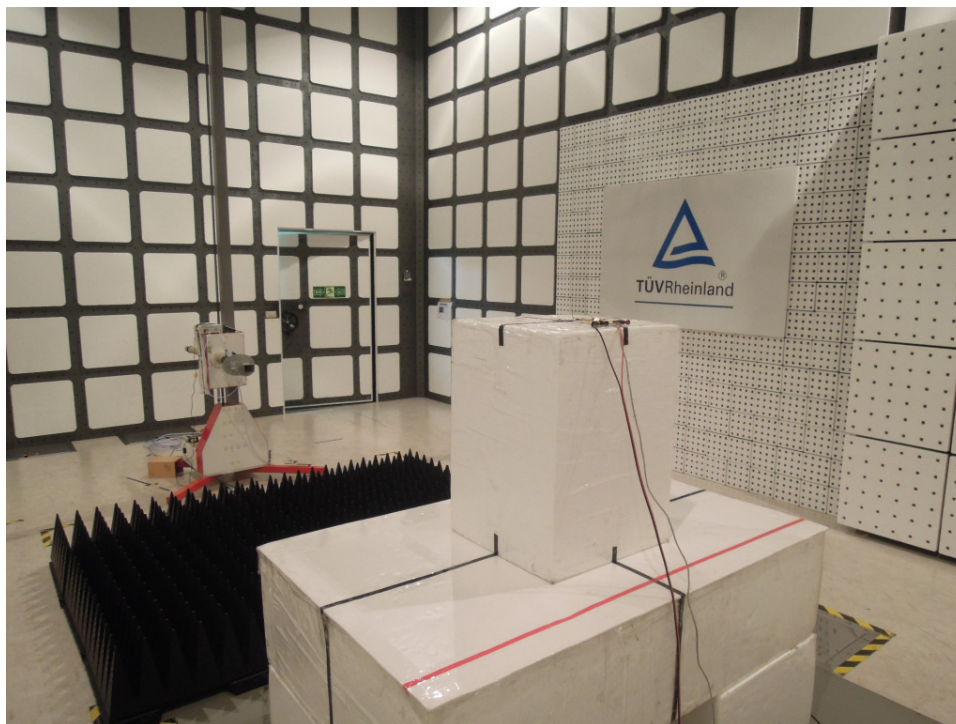
Photograph 3: Set-up for Spurious Emissions (Back View 2)



Photograph 4: Set-up for Spurious Emissions (Back View 3)



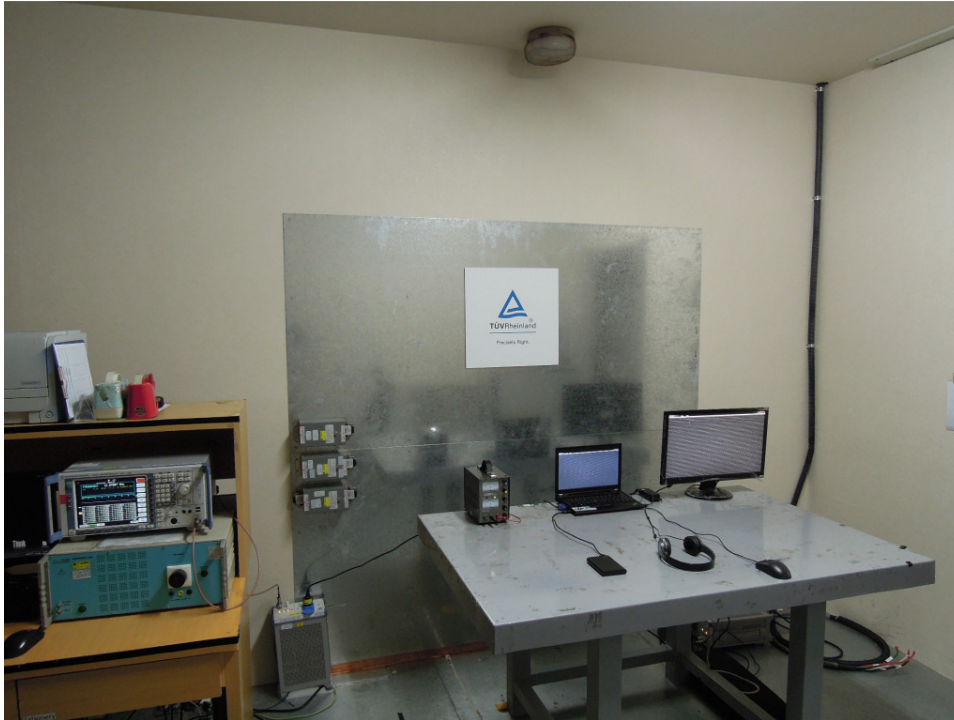
Photograph 5: Set-up for Spurious Emissions (Back View 4)



Photograph 6: Set-up for Conducted test



Photograph 7: Set-up for Mains Conducted testing (Front View)



Photograph 8: Set-up for Mains Conducted testing (Back View)



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