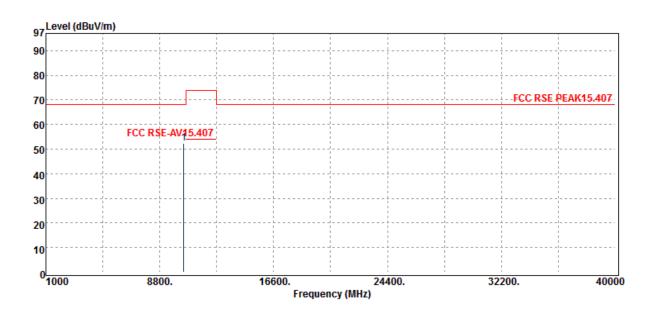


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Operation Band :802.11aB1 **Test Date** :2018-03-28

Fundamental Frequency :5220 MHz Temp./Humi. :23 deg_C / 62 RH **Operation Mode**

:Tx CH MID Engineer EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	$dB\mu V/m$	dB
10440.00	Н	Peak	31.53	20.75	52.28	68.30	-16.02

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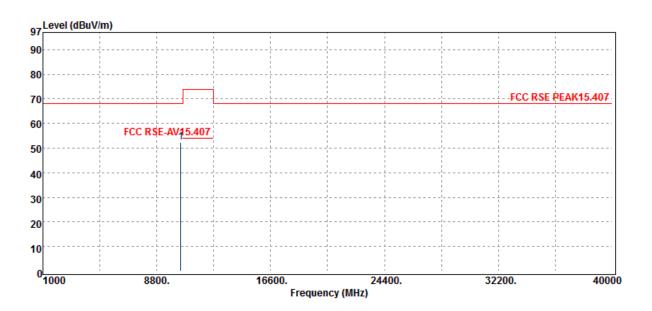
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB1 :5220 MHz :Tx CH MID :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	Н	Peak	31.60	20.75	52.35	68.30	-15.95

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Operation Band :802.11aB1 Fundamental Frequency :5240 MHz

Operation Mode EUT Pol.

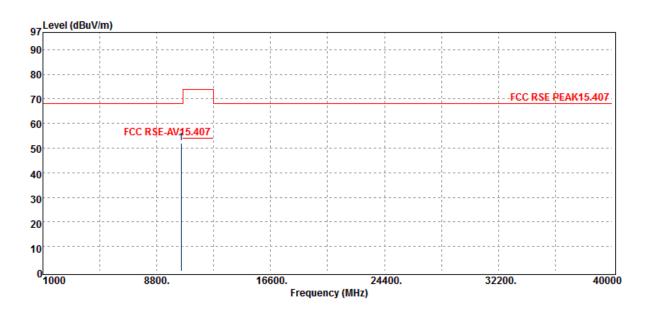
:Tx CH HIGH :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	Н	Peak	31.29	20.79	52.08	68.30	-16.22

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Operation Band :802.11aB1 Fundamental Frequency :5240 MHz **Operation Mode**

EUT Pol.

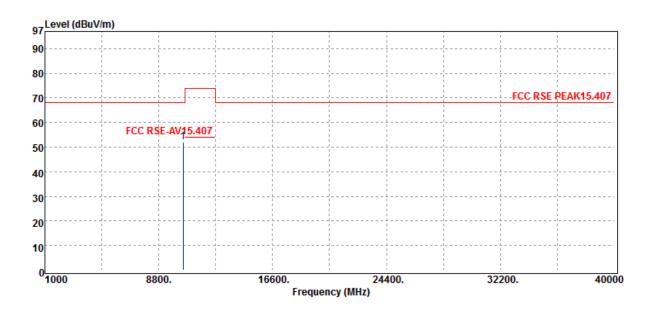
:Tx CH HIGH :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	Н	Peak	31.09	20.79	51.88	68.30	-16.42

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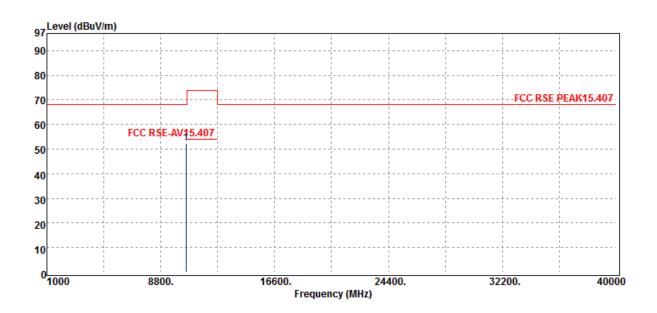
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band :802.11aB2 **Test Date** :2018-03-28 :5260 MHz

Fundamental Frequency Temp./Humi. :23 deg_C / 62 RH **Operation Mode** :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10520.00	Н	Peak	31.60	20.78	52.38	68.30	-15.92

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Operation Band :802.11aB2 Fundamental Frequency **Operation Mode**

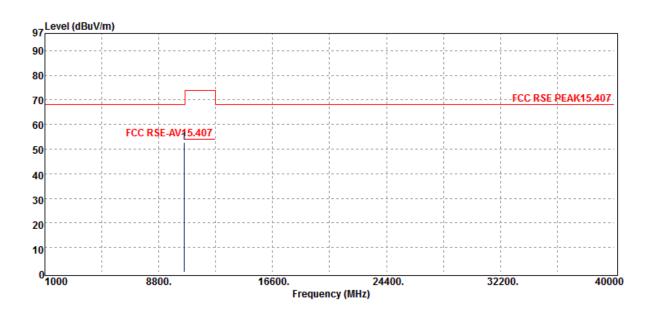
EUT Pol.

:5260 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10520.00	Н	Peak	31.86	20.78	52.64	68.30	-15.66

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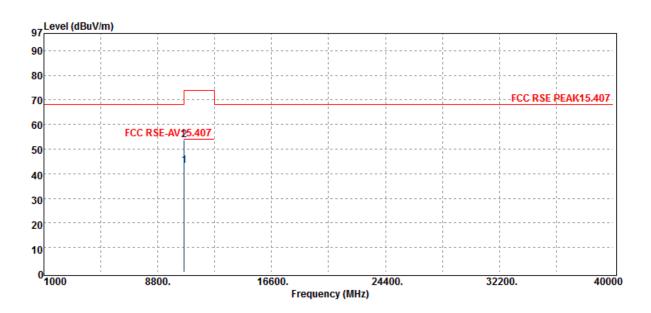


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Operation Band :802.11aB2 **Test Date** :2018-03-28 Fundamental Frequency :5300 MHz Temp./Humi.

:23 deg_C / 62 RH **Operation Mode** :Tx CH MID Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
							_
10600.00	Н	Average	22.22	21.18	43.40	54.00	-10.60
10600.00	Н	Peak	32.44	21.18	53.62	74.00	-20.38

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Operation Band :802.11aB2 Fundamental Frequency :5300 MHz

Operation Mode

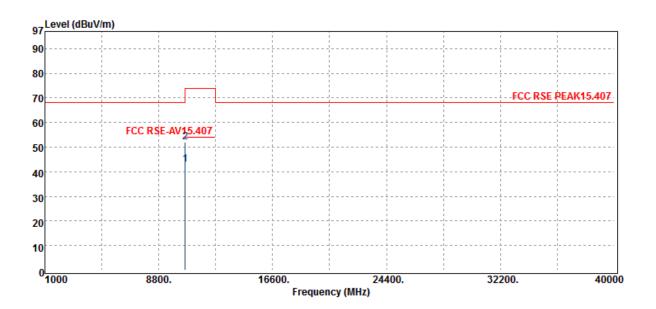
:Tx CH MID EUT Pol. :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	$dB\mu V/m$	dB
							_
10600.00	Н	Average	21.66	21.18	42.84	54.00	-11.16
10600.00	Н	Peak	30.87	21.18	52.05	74.00	-21.95

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Operation Band Fundamental Frequency **Operation Mode**

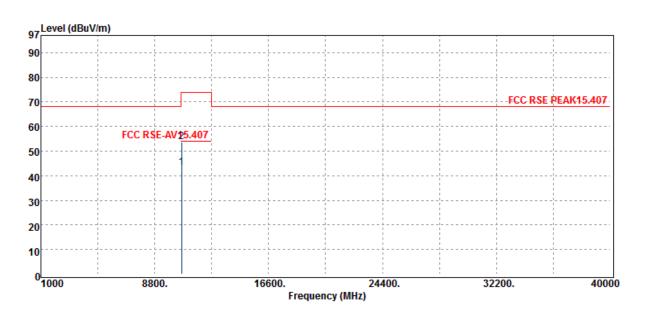
EUT Pol.

:802.11aB2 :5320 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
10640.00	Н	Average	22.09	21.24	43.33	54.00	-10.67
10640.00	Н	Peak	32.39	21.24	53.63	74.00	-20.37

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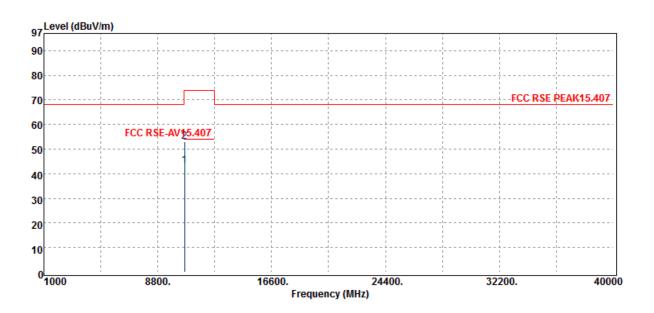
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB2 :5320 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{dB}\mu\mathrm{V}$	dB	dBµV/m	$dB\mu V/m$	dB
10640.00	Н	Average	22.11	21.24	43.35	54.00	-10.65
10640.00	Н	Peak	31.66	21.24	52.90	74.00	-21.10

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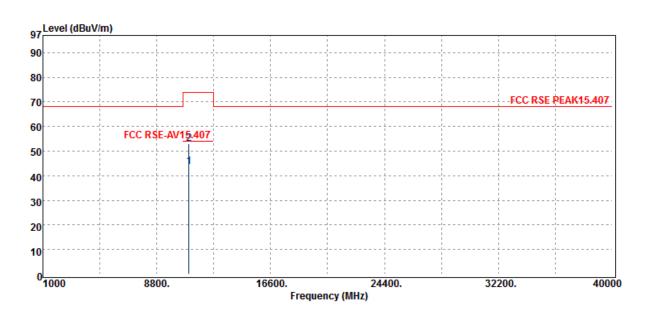
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band :802.11aB3 **Test Date** :2018-03-28

Fundamental Frequency :5500 MHz Temp./Humi. :23 deg_C / 62 RH **Operation Mode** :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
11000.00	Н	Average	21.49	22.17	43.66	54.00	-10.34
11000.00	Н	Peak	30.78	22.17	52.95	74.00	-21.05

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

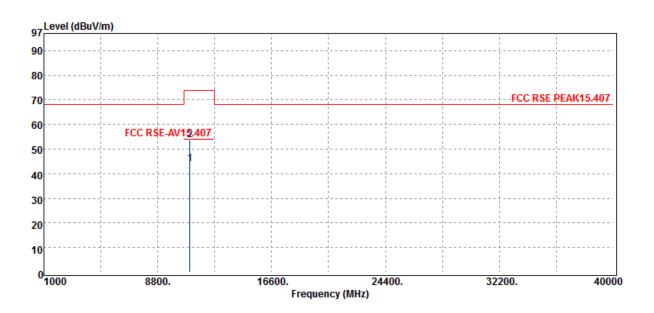
:802.11aB3 :5500 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{dB}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
11000.00	Н	Average	21.77	22.17	43.94	54.00	-10.06
11000.00	Н	Peak	31.48	22.17	53.65	74.00	-20.35

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Operation Band :802.11aB3 Fundamental Frequency

Operation Mode EUT Pol.

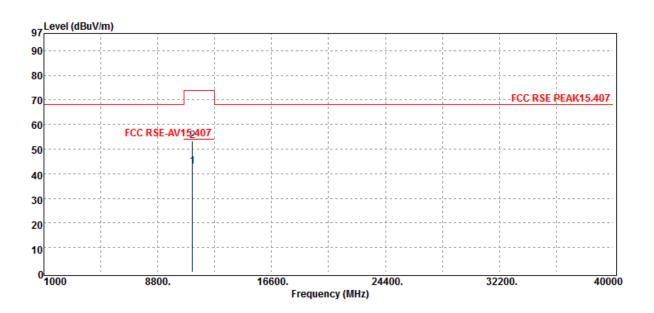
:5580 MHz :Tx CH MID :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
							_
11160.00	Н	Average	20.61	22.31	42.92	54.00	-11.08
11160.00	Н	Peak	31.07	22.31	53.38	74.00	-20.62

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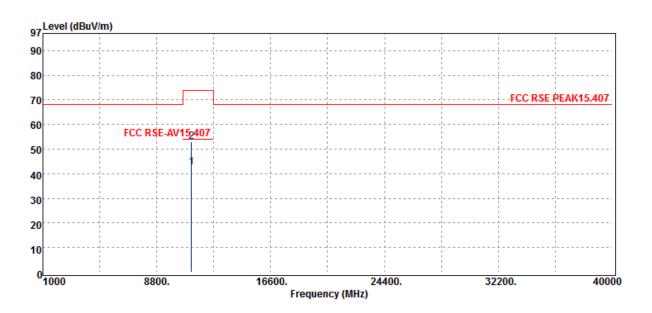
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB3 :5580 MHz :Tx CH MID :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
11160.00	Н	Average	20.40	22.31	42.71	54.00	-11.29
11160.00	Н	Peak	30.68	22.31	52.99	74.00	-21.01

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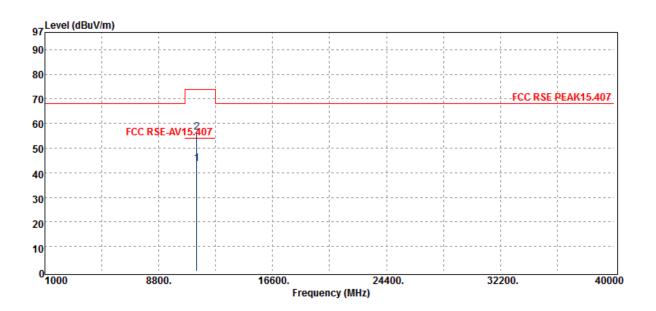
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB3 :5700 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
							_
11400.00	Н	Average	21.19	22.42	43.61	54.00	-10.39
11400.00	Н	Peak	33.84	22.42	56.26	74.00	-17.74

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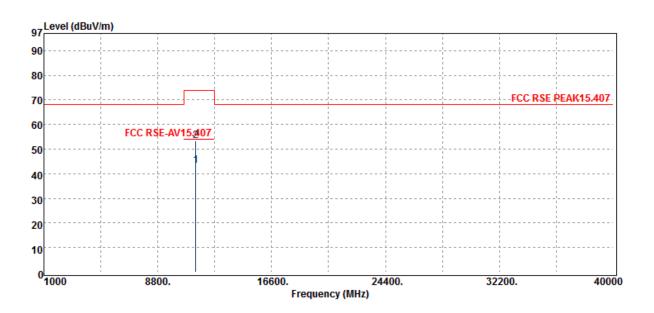
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB3 :5700 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
							_
11400.00	Н	Average	20.88	22.42	43.30	54.00	-10.70
11400.00	Н	Peak	31.10	22.42	53.52	74.00	-20.48

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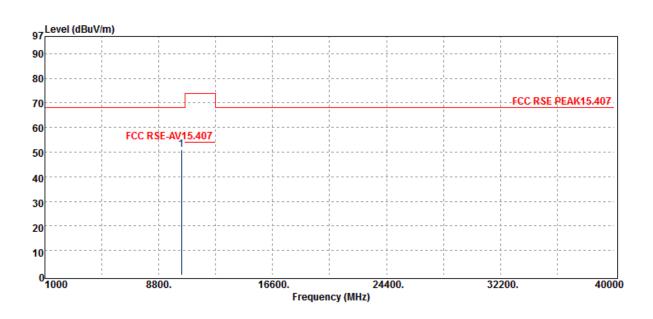
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band :802.11n20B1 **Test Date** :2018-03-28 :5180 MHz

Fundamental Frequency Temp./Humi. :23 deg_C / 62 RH **Operation Mode** :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10360.00	Н	Peak	30.75	20.41	51.16	68.30	-17.14

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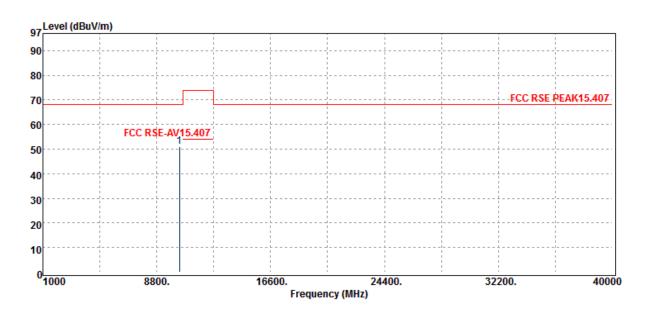
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B1 :5180 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10360.00	Н	Peak	30.72	20.41	51.13	68.30	-17.17

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

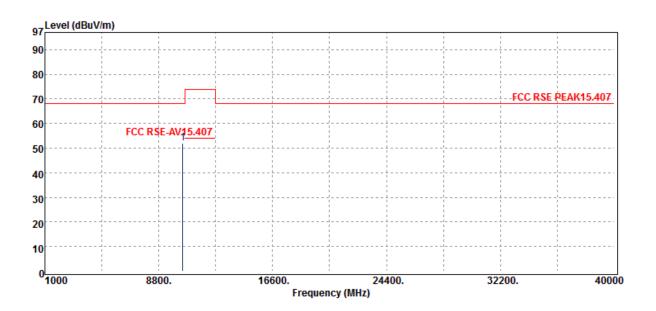
:802.11n20B1 :5220 MHz :Tx CH MID :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	Н	Peak	31.23	20.75	51.98	68.30	-16.32

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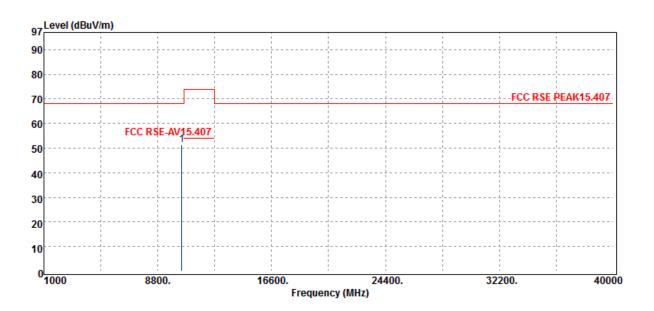
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B1 :5220 MHz :Tx CH MID :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	$dB\mu V/m$	dB
							_
10440.00	Н	Peak	30.53	20.75	51.28	68.30	-17.02

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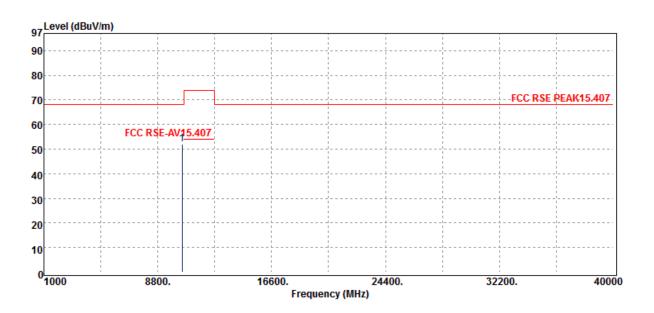
Operation Band :802.11n20B1 Fundamental Frequency :5240 MHz **Operation Mode**

:Tx CH HIGH EUT Pol. :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	Н	Peak	31.11	20.79	51.90	68.30	-16.40

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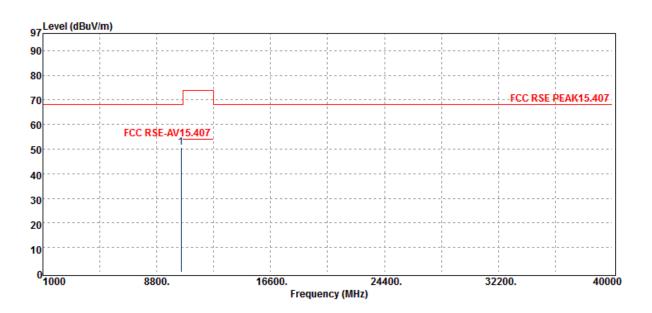
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B1 :5240 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	Н	Peak	29.84	20.79	50.63	68.30	-17.67

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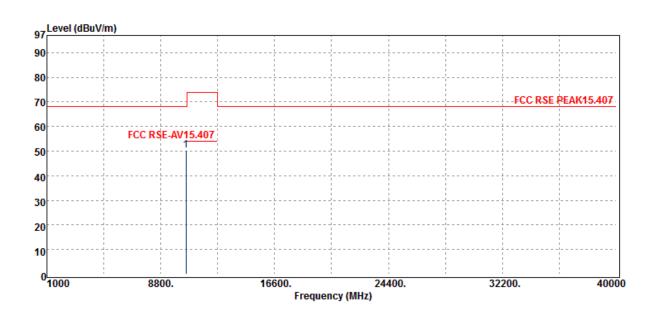
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Band :802.11n20B2 **Test Date** :2018-03-28 Fundamental Frequency :5260 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Н	Peak	29.47	20.78	50.25	68.30	-18.05

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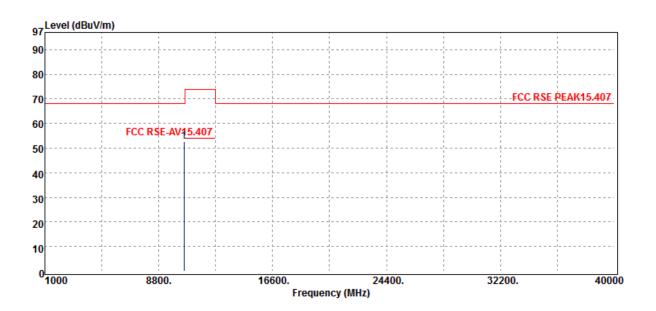
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B2 :5260 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	Н	Peak	31.79	20.78	52.57	68.30	-15.73

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

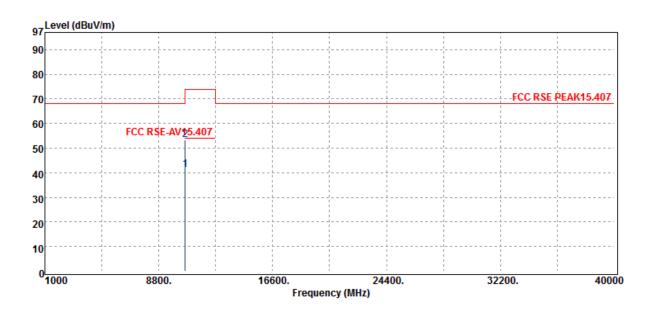
:802.11n20B2 :5300 MHz :Tx CH MID :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	$dB\mu V/m$	dB
							_
10600.00	Н	Average	20.09	21.18	41.27	54.00	-12.73
10600.00	Н	Peak	32.08	21.18	53.26	74.00	-20.74

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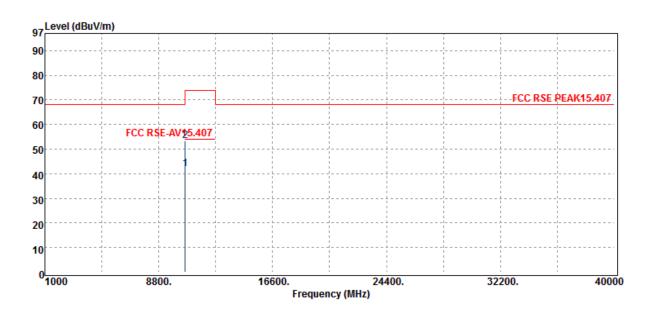
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B2 :5300 MHz :Tx CH MID :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	$dB\mu V/m$	dB
							_
10600.00	Н	Average	20.91	21.18	42.09	54.00	-11.91
10600.00	Н	Peak	32.19	21.18	53.37	74.00	-20.63

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Operation Band Fundamental Frequency

Operation Mode EUT Pol.

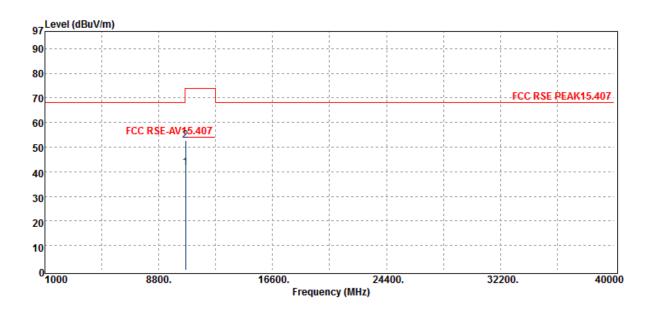
:802.11n20B2 :5320 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
10640.00	Н	Average	20.34	21.24	41.58	54.00	-12.42
10640.00	Н	Peak	31.56	21.24	52.80	74.00	-21.20

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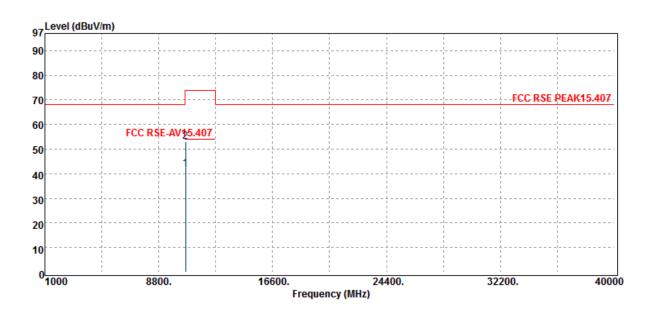
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B2 :5320 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	$dB\mu V/m$	dBμV/m	dB
							_
10640.00	Н	Average	20.78	21.24	42.02	54.00	-11.98
10640.00	Н	Peak	31.82	21.24	53.06	74.00	-20.94

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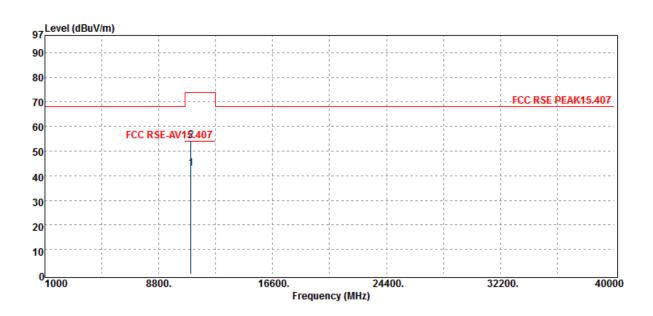
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band :802.11n20B3 **Test Date** :2018-03-28 Fundamental Frequency :5500 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	$dB\mu V/m$	dB
							_
11000.00	Н	Average	20.79	22.17	42.96	54.00	-11.04
11000.00	Н	Peak	32.31	22.17	54.48	74.00	-19.52

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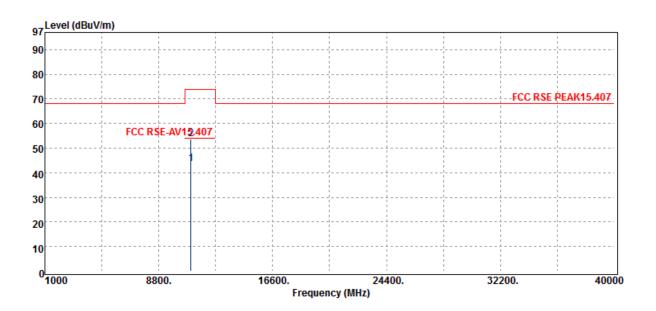
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
11000.00	Н	Average	21.44	22.17	43.61	54.00	-10.39
11000.00	Н	Peak	31.41	22.17	53.58	74.00	-20.42

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

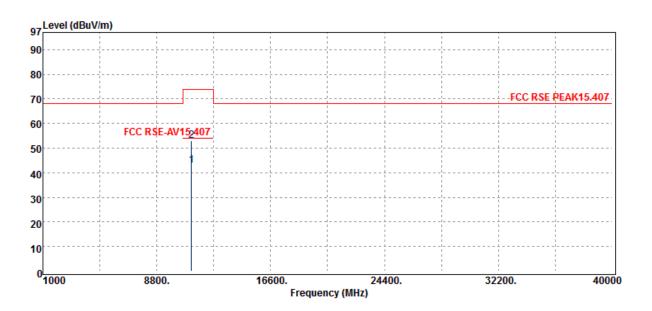
:802.11n20B3 :5580 MHz :Tx CH MID :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
11160.00	Н	Average	20.75	22.31	43.06	54.00	-10.94
11160.00	Н	Peak	30.75	22.31	53.06	74.00	-20.94

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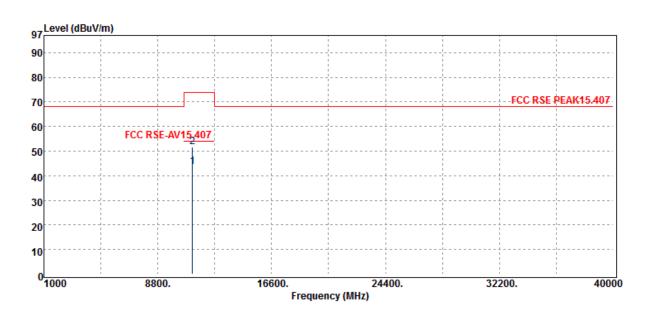
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5580 MHz :Tx CH MID :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	$dB\mu V/m$	dBμV/m	dB
							_
11160.00	Н	Average	21.18	22.31	43.49	54.00	-10.51
11160.00	Н	Peak	29.36	22.31	51.67	74.00	-22.33

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

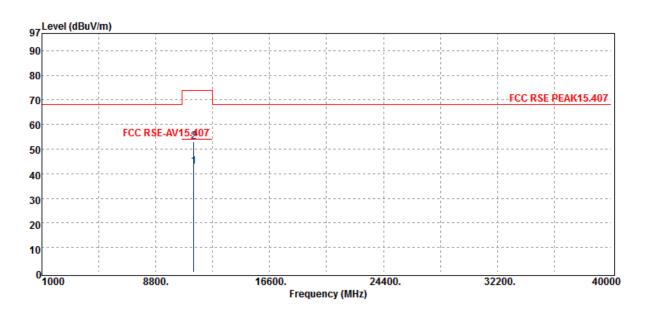
:802.11n20B3 :5700 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
11400.00	Н	Average	20.65	22.42	43.07	54.00	-10.93
11400.00	Н	Peak	30.74	22.42	53.16	74.00	-20.84

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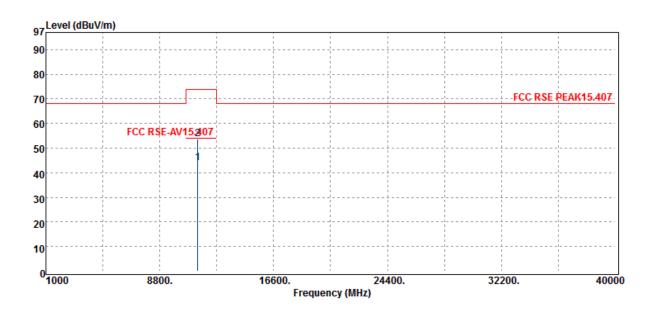
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5700 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	$dB\mu V/m$	dB
							_
11400.00	Н	Average	21.51	22.42	43.93	54.00	-10.07
11400.00	Н	Peak	31.29	22.42	53.71	74.00	-20.29

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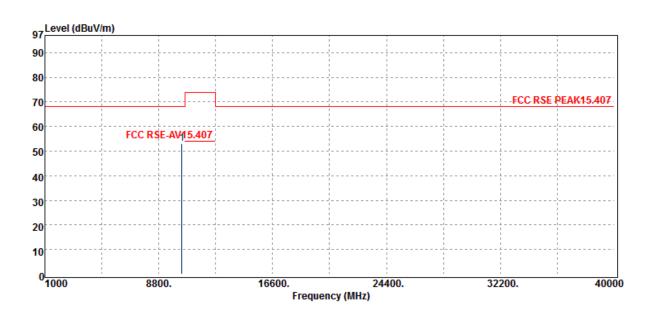
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band :802.11n40B1 **Test Date** :2018-03-28 Fundamental Frequency :5190 MHz Temp./Humi.

:23 deg_C / 62 RH **Operation Mode** :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	Н	Peak	32.44	20.48	52.92	68.30	-15.38

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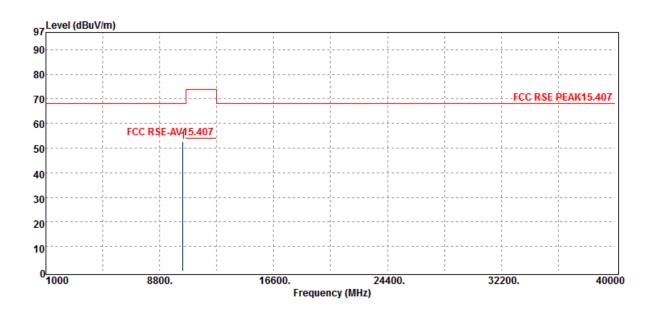
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B1 :5190 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10380.00	Н	Peak	32.19	20.48	52.67	68.30	-15.63

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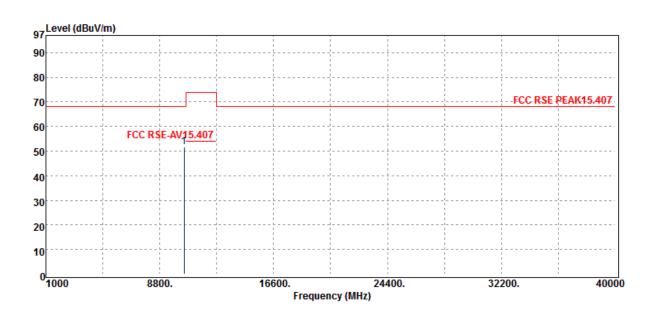


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Operation Band :802.11n40B1 **Test Date** :2018-03-28

Fundamental Frequency :5230 MHz Temp./Humi. :23 deg_C / 62 RH **Operation Mode** :Tx CH HIGH Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	$dB\mu V/m$	dB
10460.00	Н	Peak	30.75	20.77	51.52	68.30	-16.78

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EUT Pol.

Report No.: ER/2018/30033

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Operation Band :802.11n40B1 Fundamental Frequency **Operation Mode**

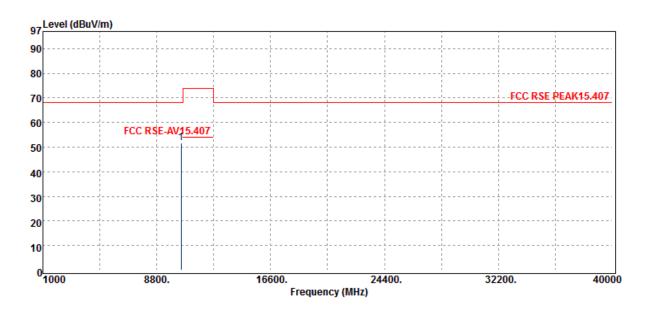
:5230 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	Н	Peak	30.81	20.77	51.58	68.30	-16.72

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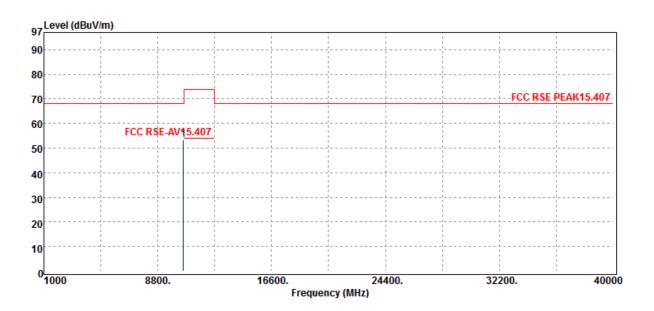
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B2 :5270 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
10540.00	Н	Peak	32.44	20.82	53.26	68.30	-15.04

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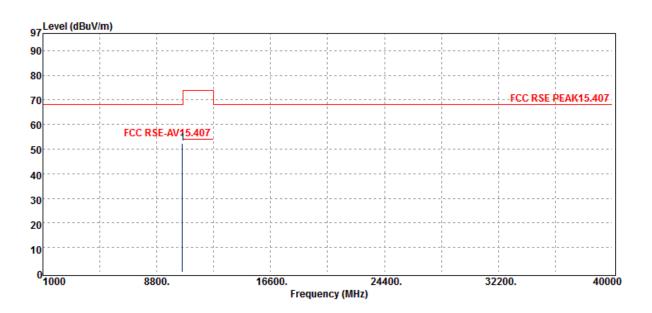
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B2 :5270 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10540.00	Н	Peak	31.49	20.82	52.31	68.30	-15.99

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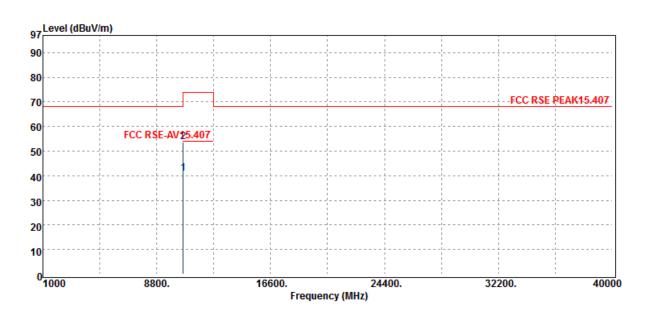


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Operation Band :802.11n40B2 **Test Date** :2018-03-28 Fundamental Frequency :5310 MHz Temp./Humi.

:23 deg_C / 62 RH **Operation Mode** :Tx CH HIGH Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
							_
10620.00	Н	Average	19.79	21.21	41.00	54.00	-13.00
10620.00	Н	Peak	32.61	21.21	53.82	74.00	-20.18

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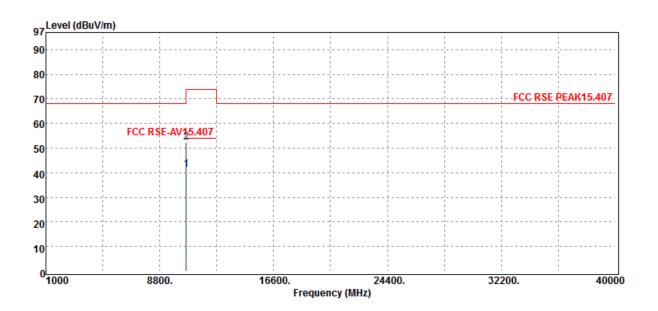
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B2 :5310 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
10620.00	Н	Average	20.19	21.21	41.40	54.00	-12.60
10620.00	Н	Peak	31.31	21.21	52.52	74.00	-21.48

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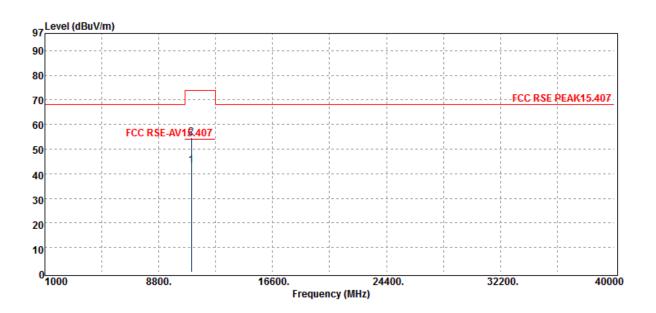
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band :802.11n40B3 **Test Date** :2018-03-28 Fundamental Frequency :5510 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
11020.00	Н	Average	21.01	22.28	43.29	54.00	-10.71
11020.00	Н	Peak	32.30	22.28	54.58	74.00	-19.42

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t (886-2) 2299-3279

f (886-2) 2298-0488



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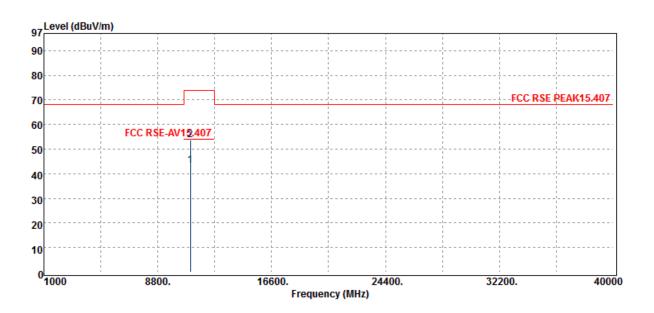
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
							_
11020.00	Н	Average	21.06	22.28	43.34	54.00	-10.66
11020.00	Н	Peak	31.28	22.28	53.56	74.00	-20.44

t (886-2) 2299-3279

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Operation Band Fundamental Frequency

Operation Mode EUT Pol.

:802.11n40B3 :5550 MHz :Tx CH MID

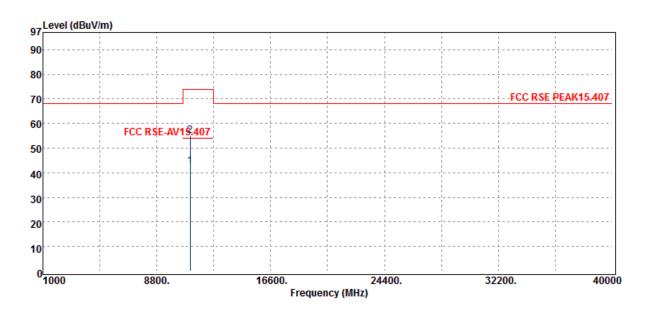
:H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
11100.00	Н	Average	20.22	22.38	42.60	54.00	-11.40
11100.00	Н	Peak	32.81	22.38	55.19	74.00	-18.81

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Operation Band Fundamental Frequency **Operation Mode**

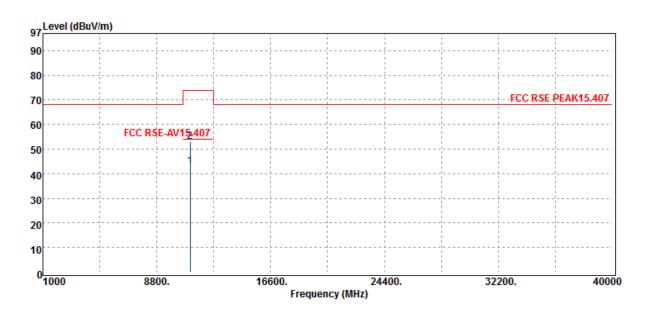
EUT Pol.

:802.11n40B3 :5550 MHz :Tx CH MID :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
							_
11100.00	Н	Average	20.66	22.38	43.04	54.00	-10.96
11100.00	Н	Peak	30.79	22.38	53.17	74.00	-20.83

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Operation Band :802.11n40B3 Fundamental Frequency

Operation Mode EUT Pol.

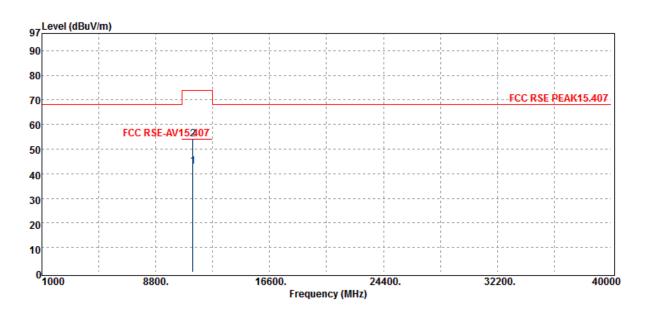
:5670 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{dB}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
							_
11340.00	Н	Average	20.48	22.34	42.82	54.00	-11.18
11340.00	Н	Peak	31.80	22.34	54.14	74.00	-19.86

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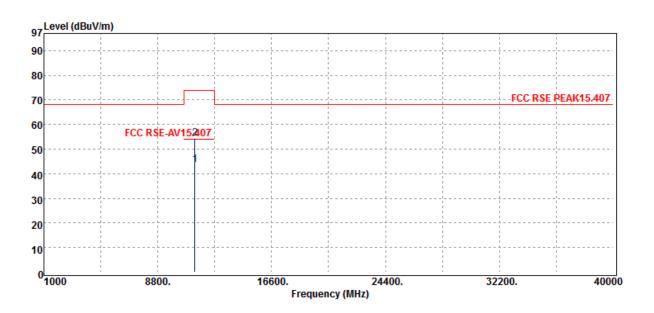
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5670 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{dB}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
							_
11340.00	Н	Average	21.32	22.34	43.66	54.00	-10.34
11340.00	Н	Peak	32.12	22.34	54.46	74.00	-19.54

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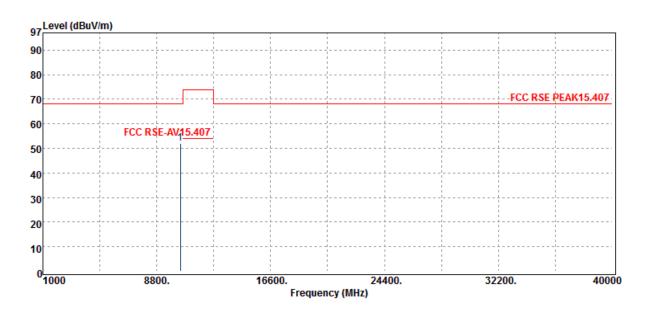
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band Test Date :802.11ac80B1 :2018-03-28

Temp./Humi. Fundamental Frequency :5210 MHz :23 deg_C / 62 RH

Operation Mode :Tx CH LOW Engineer

EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	$dB\mu V/m$	dB
							_
10420.00	Н	Peak	31.31	20.69	52.00	68.30	-16.30

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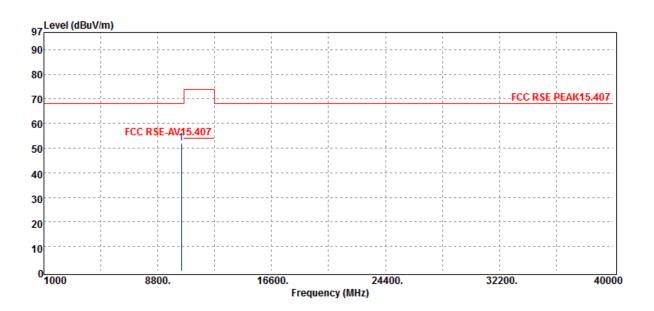
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B1 :5210 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10420.00	Н	Peak	31.43	20.69	52.12	68.30	-16.18

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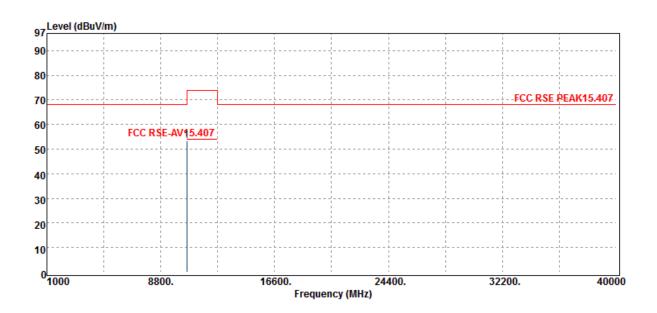
Page: 115 of 181

Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Band :802.11ac80B2 **Test Date** :2018-03-28 Fundamental Frequency :5290 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Tx CH HIGH Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10580.00	Н	Peak	32.41	21.03	53.44	68.30	-14.86

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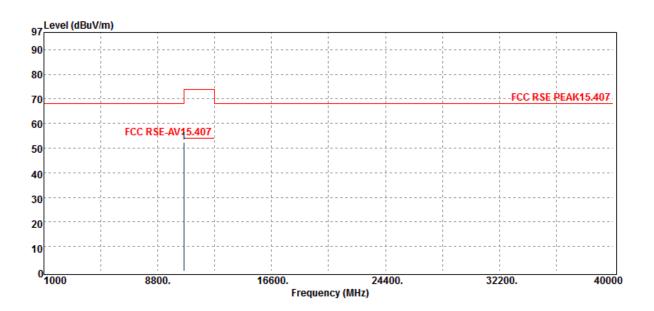
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B2 :5290 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
10580.00	Н	Peak	31.22	21.03	52.25	68.30	-16.05

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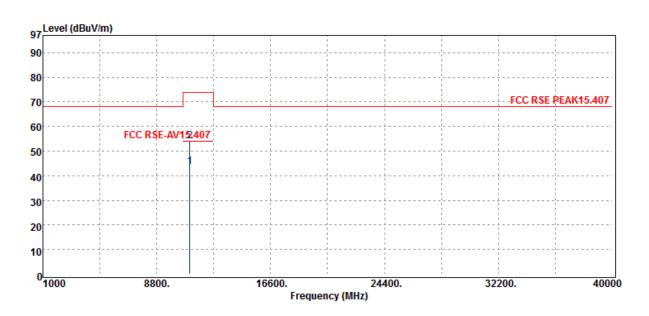
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band :802.11ac80B3 **Test Date** :2018-03-28 Fundamental Frequency :5530 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Tx CH LOW Engineer

EUT Pol. :H Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	$dB\mu V/m$	dB
							_
11060.00	Н	Average	21.07	22.41	43.48	54.00	-10.52
11060.00	Н	Peak	31.71	22.41	54.12	74.00	-19.88

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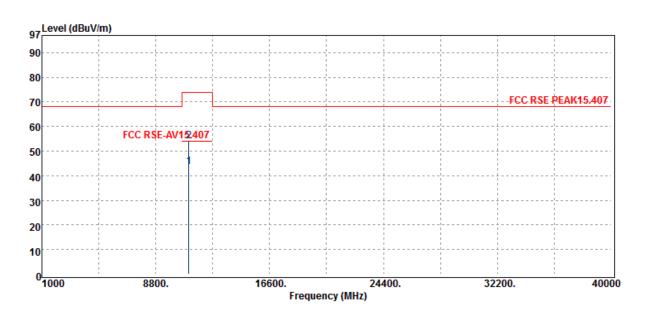
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B3 :5530 MHz :Tx CH LOW :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{dB}\mu\mathrm{V}$	dB	dBμV/m	$dB\mu V/m$	dB
11060.00	Н	Average	21.19	22.41	43.60	54.00	-10.40
11060.00	Н	Peak	31.51	22.41	53.92	74.00	-20.08

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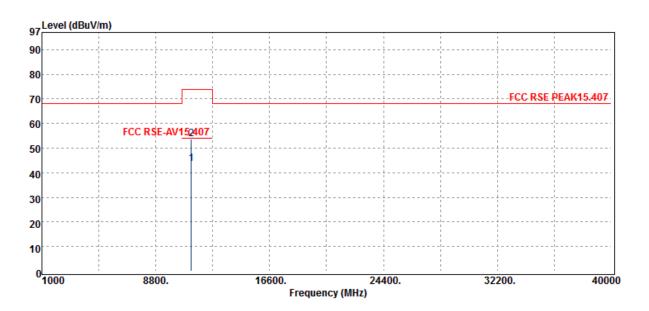
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B3 :5610 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	$dB\mu V/m$	dB
							_
11220.00	Н	Average	21.19	22.36	43.55	54.00	-10.45
11220.00	Н	Peak	31.34	22.36	53.70	74.00	-20.30

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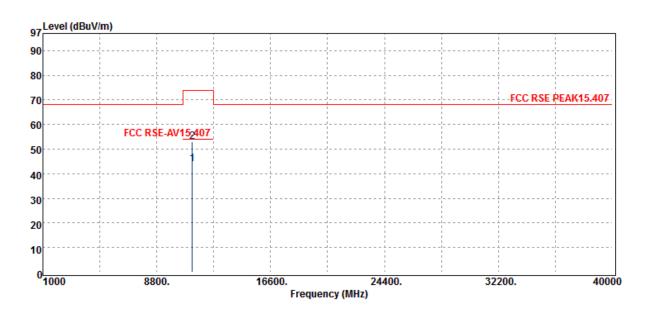
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B3 :5610 MHz :Tx CH HIGH :H Plane

Test Date :2018-03-28 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
							_
11220.00	Н	Average	21.46	22.36	43.82	54.00	-10.18
11220.00	Н	Peak	30.77	22.36	53.13	74.00	-20.87

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Band Edge falling to restricted band

802.11a mode

:802.11aB1 **Operation Band**

Fundamental Frequency :5180 MHz

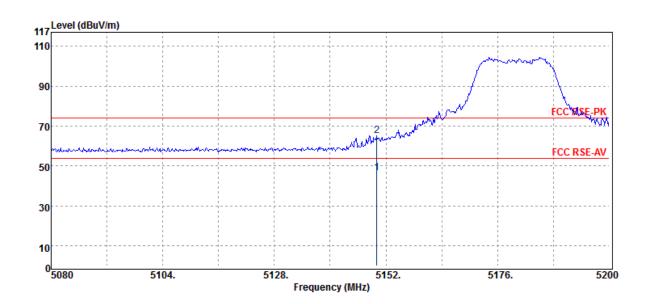
Operation Mode :Bandedge CH LOW EUT Pol. :H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer :Tin

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
 MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	38.35	8.32	46.67	54.00	-7.33
5150.00	Ε	Peak	56.80	8.32	65.12	74.00	-8.88

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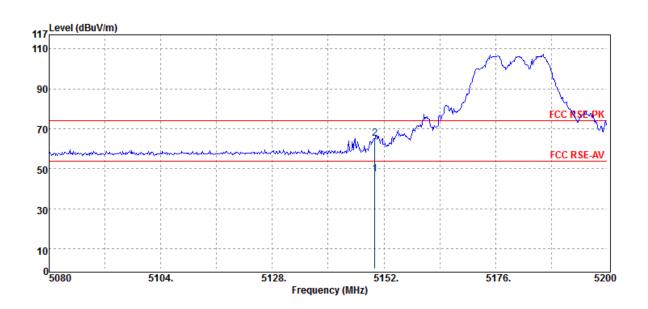
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Operation Band :802.11aB1 **Test Date**

:2018-03-27 Fundamental Frequency :5180 MHz Temp./Humi. :23 deg_C / 62 RH

Operation Mode :Bandedge CH LOW Engineer

EUT Pol. :H Plane :HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	38.91	8.32	47.23	54.00	-6.77
5150.00	E	Peak	56.80	8.32	65.12	74.00	-8.88

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

:802.11aB2 :5320 MHz

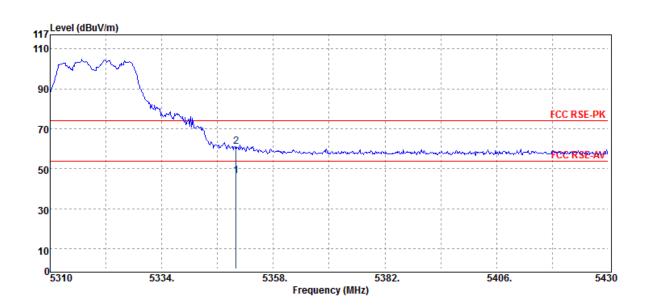
:Bandedge CH HIGH

:H Plane

Test Date :2018-03-27 Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	38.04	8.63	46.67	54.00	-7.33
5350.00	E	Peak	52.56	8.63	61.19	74.00	-12.81

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB2 :5320 MHz

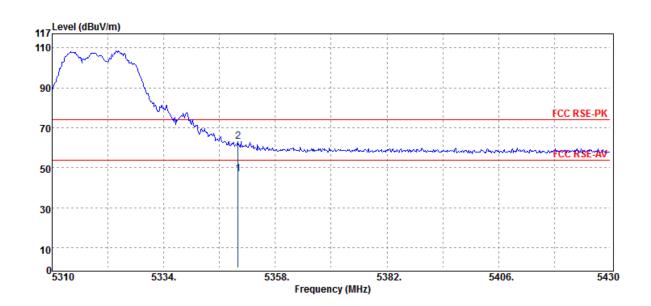
:Bandedge CH HIGH

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5350.00	E	Average	38.51	8.63	47.14	54.00	-6.86
5350.00	E	Peak	54.57	8.63	63.20	74.00	-10.80

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB3 :5500 MHz

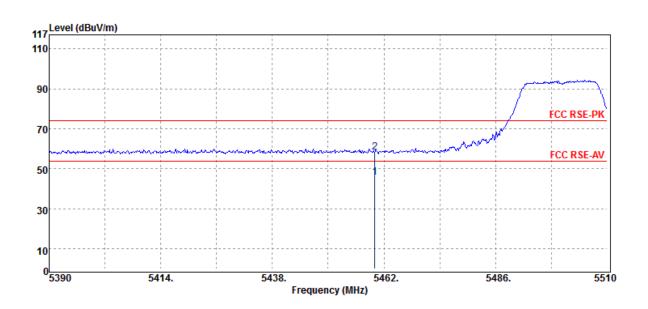
:Bandedge CH LOW

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	37.02	8.75	45.77	54.00	-8.23
5460.00	E	Peak	49.60	8.75	58.35	74.00	-15.65

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

:802.11aB3 :5500 MHz

:Bandedge CH LOW

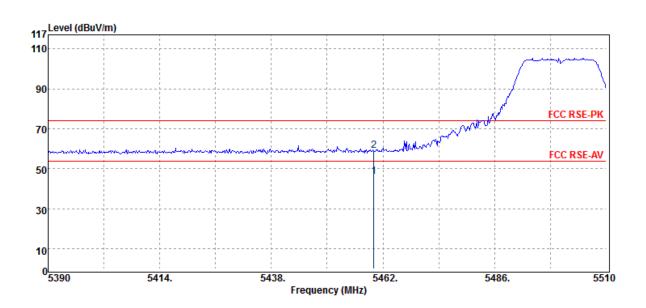
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5460.00	E	Average	37.51	8.75	46.26	54.00	-7.74
5460.00	E	Peak	50.25	8.75	59.00	74.00	-15.00

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

:802.11aB3 :5500 MHz

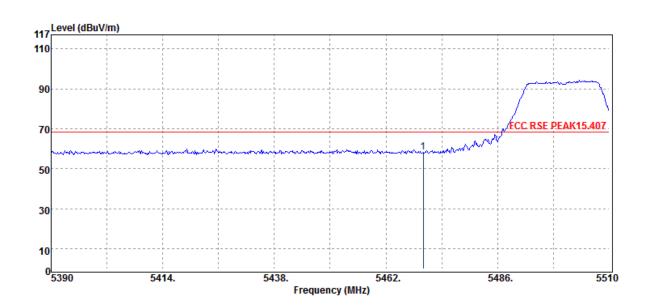
:Bandedge CH LOW RSE

:H Plane

Test Date :2018-03-27 Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} \mathrm{B} \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	49.48	8.74	58.22	68.30	-10.08

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Operation Band Fundamental Frequency **Operation Mode**

EUT Pol.

:802.11aB3 :5500 MHz

:Bandedge CH LOW RSE

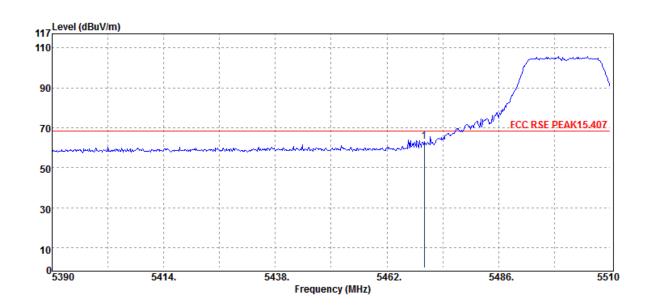
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	Е	Peak	54.26	8.74	63.00	68.30	-5.30

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB3 :5700 MHz

:Bandedge CH HIGH RSE

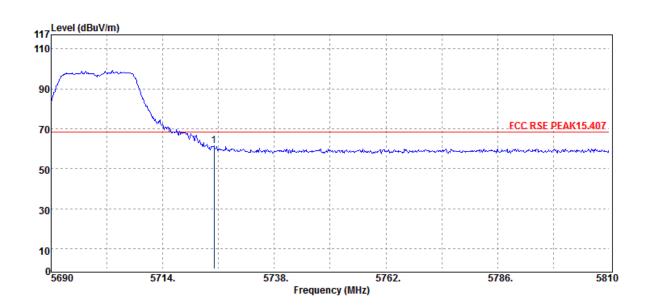
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} \mathrm{B} \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5725.00	Ē	Peak	52.07	9.44	61.51	68.30	-6.79

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB3 :5700 MHz

:Bandedge CH HIGH RSE

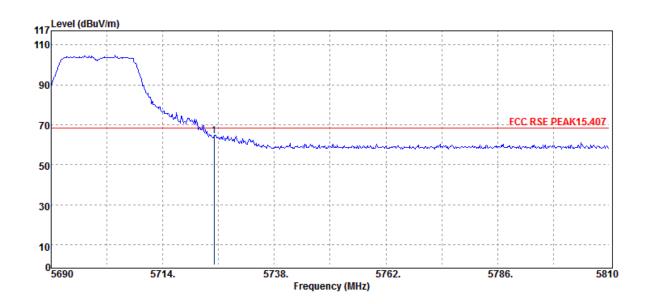
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	54.86	9.44	64.30	68.30	-4.00

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802.11n20 HT mode

Operation Band Fundamental Frequency

Operation Mode EUT Pol.

:802.11n20B1 :5180 MHz

:Bandedge CH LOW

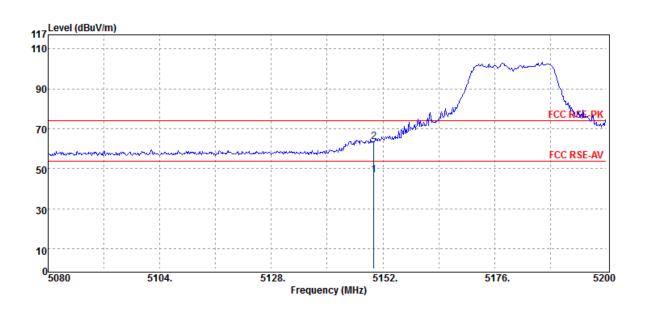
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	38.79	8.32	47.11	54.00	-6.89
5150.00	E	Peak	55.19	8.32	63.51	74.00	-10.49

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B1 :5180 MHz

:Bandedge CH LOW

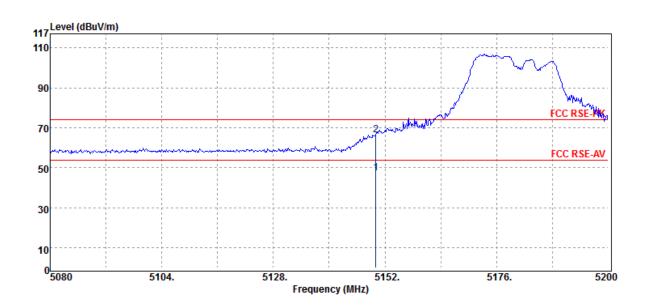
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	39.19	8.32	47.51	54.00	-6.49
5150.00	Е	Peak	58.16	8.32	66.48	74.00	-7.52

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B2 :5320 MHz

:Bandedge CH HIGH

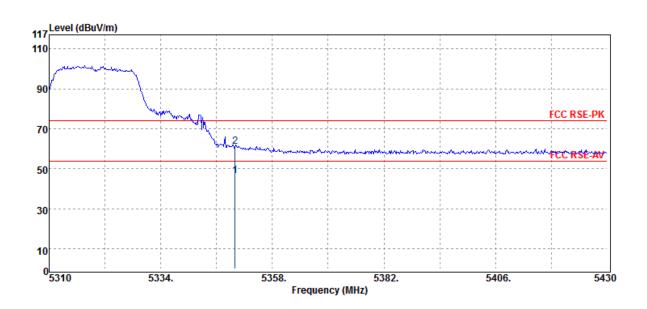
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	38.08	8.63	46.71	54.00	-7.29
5350.00	Е	Peak	52.32	8.63	60.95	74.00	-13.05

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B2 :5320 MHz

:Bandedge CH HIGH

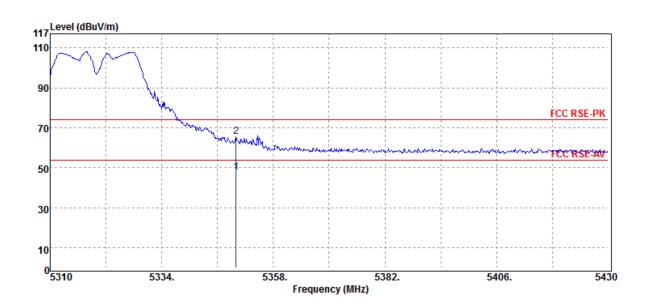
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5350.00	E	Average	39.02	8.63	47.65	54.00	-6.35
5350.00	E	Peak	56.78	8.63	65.41	74.00	-8.59

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz

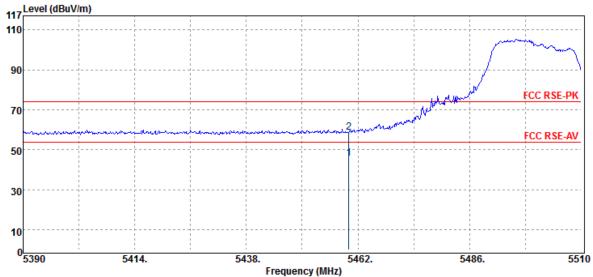
:Bandedge CH LOW

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	37.17	8.75	45.92	54.00	-8.08
5460.00	E	Peak	49.85	8.75	58.60	74.00	-15.40

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz

:Bandedge CH LOW

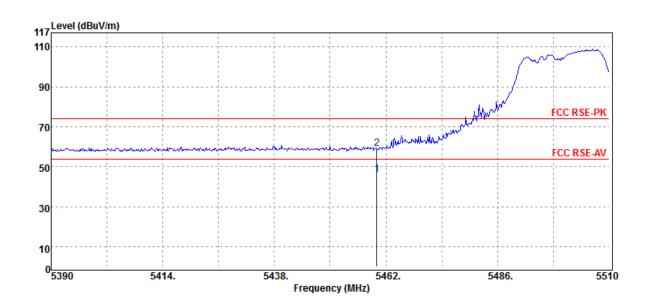
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	37.49	8.75	46.24	54.00	-7.76
5460.00	E	Peak	50.47	8.75	59.22	74.00	-14.78

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz

:Bandedge CH LOW RSE

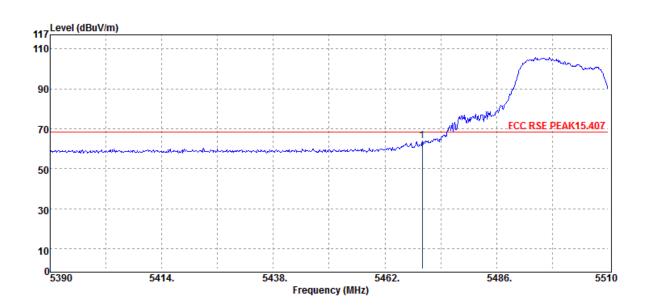
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	Е	Peak	55.22	8.74	63.96	68.30	-4.34

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz

:Bandedge CH LOW RSE

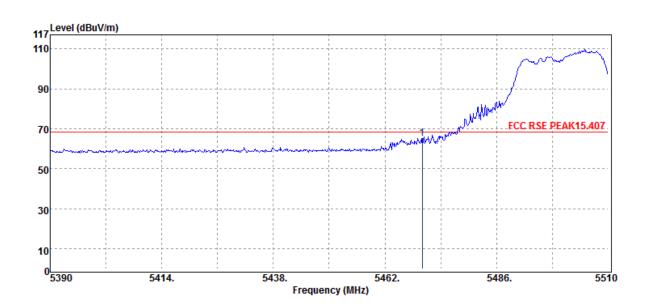
:H Plane

Test Date :2018-03-29

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	56.64	8.74	65.38	68.30	-2.92

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5700 MHz

:Bandedge CH HIGH RSE

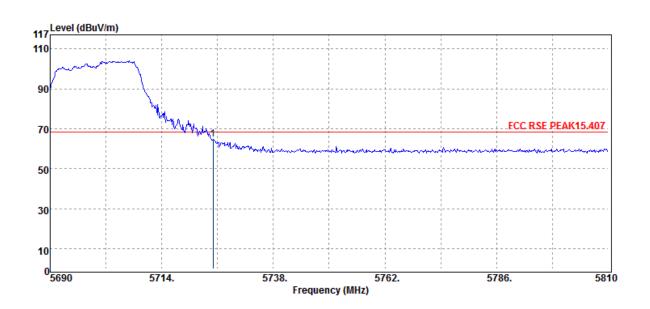
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Fre	eq. 1	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MH	Hz F/	H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
5725	5.00	Е	Peak	55.30	9.44	64.74	68.30	-3.56

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n20B3 :5700 MHz

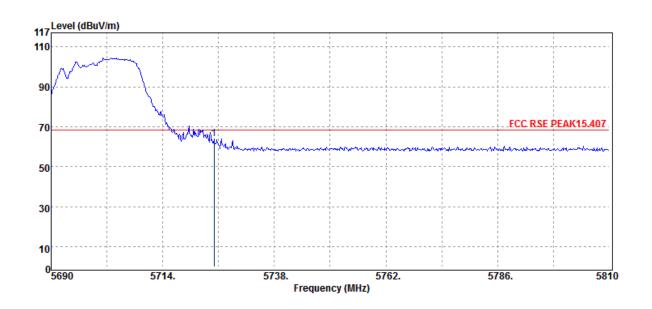
:Bandedge CH HIGH RSE

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH Engineer

:HORIZONTAL Measurement Antenna Pol.



	Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
-	5725.00	Е	Peak	54.49	9.44	63.93	68.30	-4.37

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802.11n40 HT mode

Operation Band Fundamental Frequency

Operation Mode EUT Pol.

:802.11n40B1 :5190 MHz

:Bandedge CH LOW

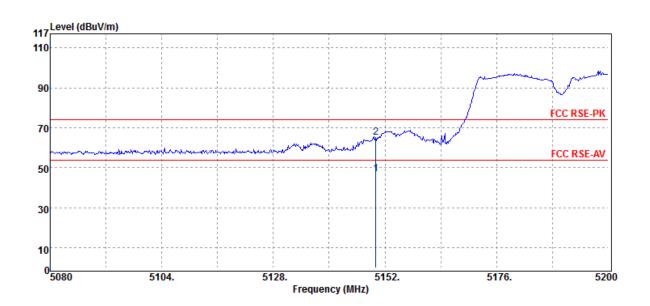
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5150.00	Е	Average	38.52	8.32	46.84	54.00	-7.16
5150.00	Е	Peak	56.91	8.32	65.23	74.00	-8.77

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B1 :5190 MHz

:Bandedge CH LOW

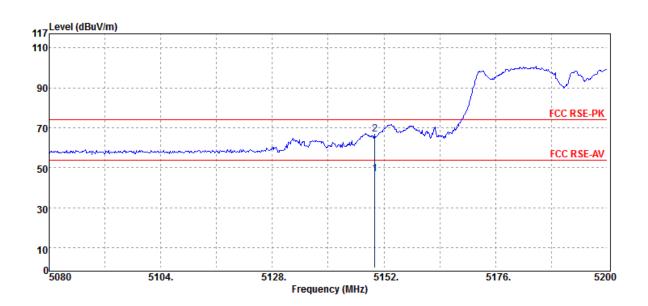
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5150.00	E	Average	38.78	8.32	47.10	54.00	-6.90
5150.00	E	Peak	58.37	8.32	66.69	74.00	-7.31

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B2 :5310 MHz

:Bandedge CH HIGH

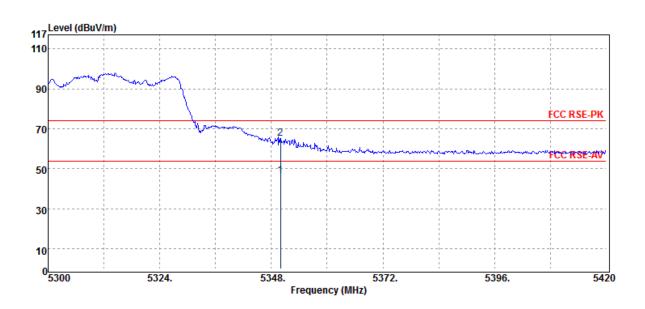
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5350.00	E	Average	38.10	8.63	46.73	54.00	-7.27
5350.00	E	Peak	56.50	8.63	65.13	74.00	-8.87

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B2 :5310 MHz

:Bandedge CH HIGH

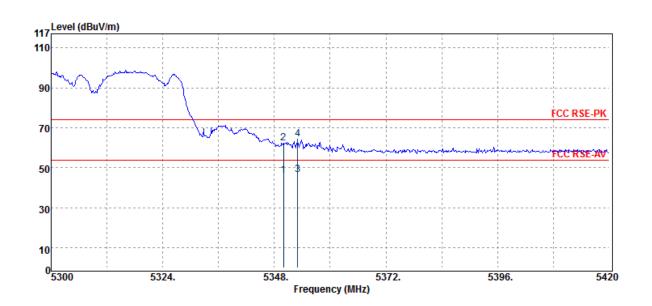
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{dB}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	37.64	8.63	46.27	54.00	-7.73
5350.00	E	Peak	53.73	8.63	62.36	74.00	-11.64
5353.04	E	Average	37.71	8.65	46.36	54.00	-7.64
5353.04	Е	Peak	55.67	8.65	64.32	74.00	-9.68

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz

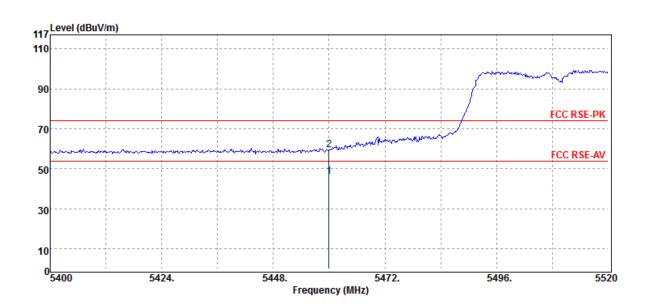
:Bandedge CH LOW

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	37.27	8.75	46.02	54.00	-7.98
5460.00	Е	Peak	50.78	8.75	59.53	74.00	-14.47

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz

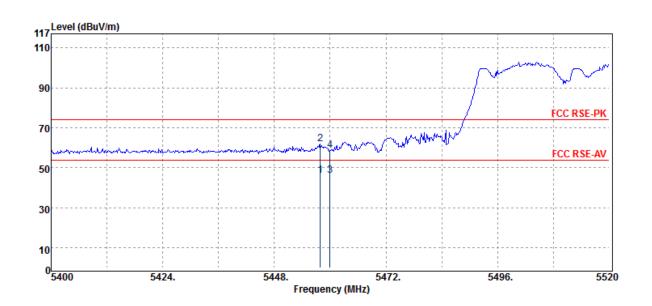
:Bandedge CH LOW

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} \mathrm{B} \mu \mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5457.84	E	Average	37.37	8.75	46.12	54.00	-7.88
5457.84	E	Peak	53.02	8.75	61.77	74.00	-12.23
5460.00	Е	Average	37.45	8.75	46.20	54.00	-7.80
5460.00	Е	Peak	49.76	8.75	58.51	74.00	-15.49

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz

:Bandedge CH LOW RSE

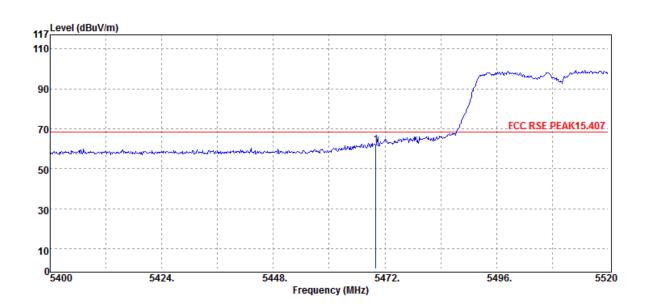
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	${ m d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5470.00	Е	Peak	53.27	8.74	62.01	68.30	-6.29

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz

:Bandedge CH LOW RSE

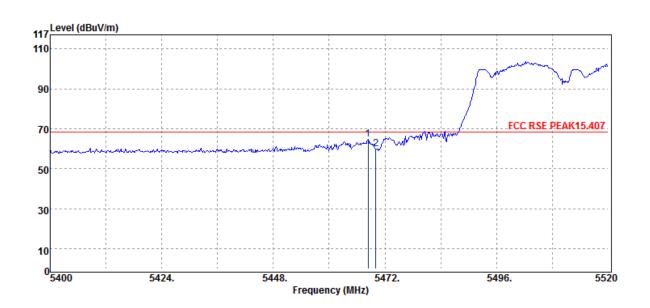
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5468.40	E	Peak	56.09	8.74	64.83	68.30	-3.47
5470.00	E	Peak	51.03	8.74	59.77	68.30	-8.53

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5670 MHz

:Bandedge CH HIGH RSE

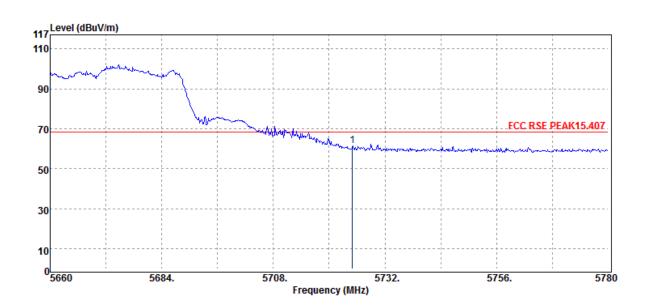
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
5725.00	Е	Peak	52.05	9.44	61.49	68.30	-6.81

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B3 :5670 MHz

:Bandedge CH HIGH RSE

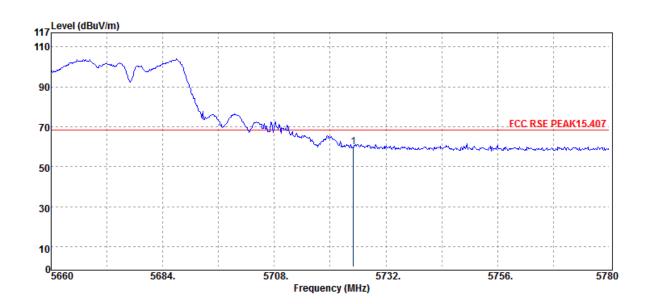
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



	Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
5	725.00	Е	Peak	50.67	9.44	60.11	68.30	-8.19

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802.11ac VHT80 mode

Operation Band Fundamental Frequency

Operation Mode EUT Pol.

:802.11ac80B1 :5210 MHz

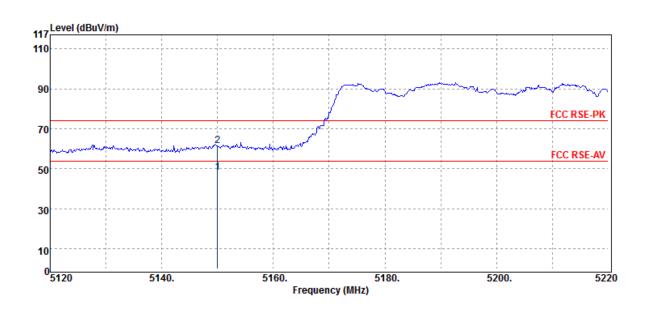
:Bandedge CH LOW

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5150.00	Е	Average	39.82	8.32	48.14	54.00	-5.86
5150.00	Е	Peak	53.16	8.32	61.48	74.00	-12.52

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B1 :5210 MHz

:Bandedge CH LOW

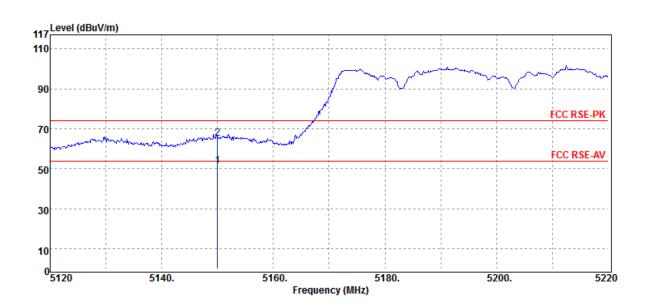
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5150.00	E	Average	43.09	8.32	51.41	54.00	-2.59
5150.00	E	Peak	57.02	8.32	65.34	74.00	-8.66

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B2 :5290 MHz

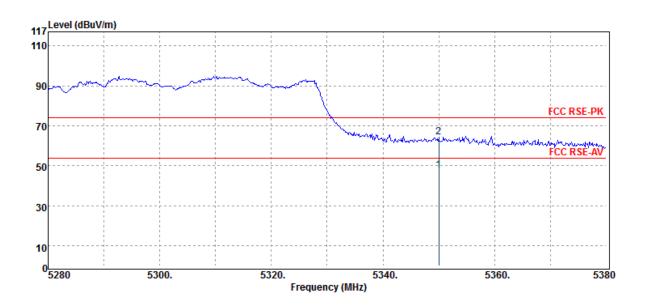
:Bandedge CH HIGH

:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	39.00	8.63	47.63	54.00	-6.37
5350.00	E	Peak	55.80	8.63	64.43	74.00	-9.57

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B2 :5290 MHz

:Bandedge CH HIGH

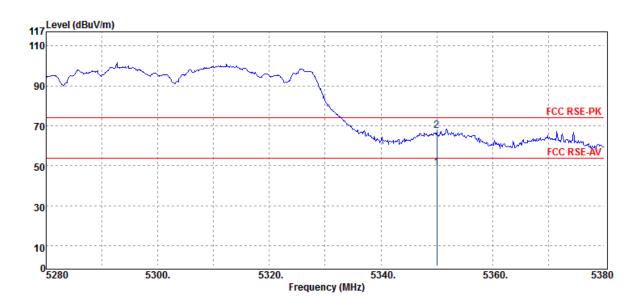
:H Plane

Test Date :2018-03-27

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5350.00	Е	Average	40.31	8.63	48.94	54.00	-5.06
5350.00	E	Peak	58.79	8.63	67.42	74.00	-6.58

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B3 :5530 MHz

:Bandedge CH LOW

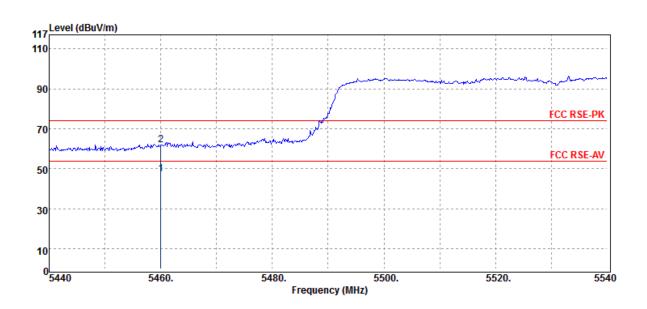
:H Plane

Test Date :2018-03-29

Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d} B \mu V$	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	38.74	8.75	47.49	54.00	-6.51
5460.00	Е	Peak	53.11	8.75	61.86	74.00	-12.14

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B3 :5530 MHz

:Bandedge CH LOW

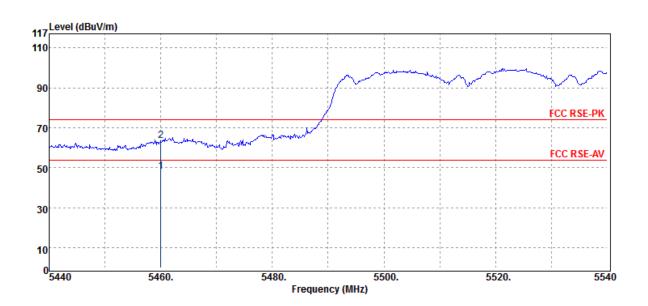
:H Plane

Test Date :2018-03-29

Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	$dB\mu V/m$	dBμV/m	dB
5460.00	E	Average	39.55	8.75	48.30	54.00	-5.70
5460.00	E	Peak	54.97	8.75	63.72	74.00	-10.28

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B3 :5530 MHz

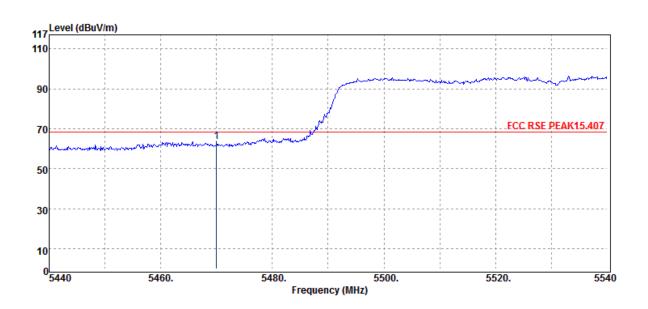
:Bandedge CH LOW RSE

:H Plane

Test Date :2018-03-29 Temp./Humi. :23 deg_C / 62 RH

Engineer

:VERTICAL Measurement Antenna Pol.



	Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
	5470.00	E	Peak	54.84	8.74	63.58	68.30	-4.72

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Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B3 :5530 MHz

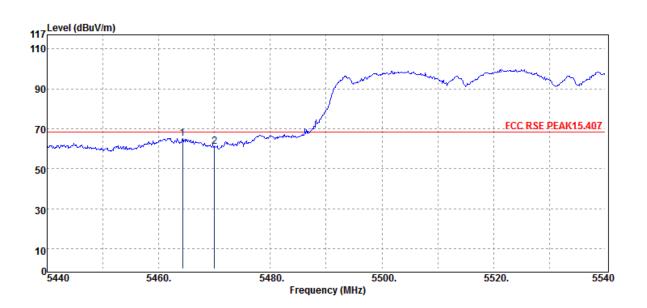
:Bandedge CH LOW RSE

:H Plane

Test Date :2018-03-29 Temp./Humi. :23 deg_C / 62 RH

Engineer

:HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	$\mathrm{d}\mathrm{B}\mu\mathrm{V}$	dB	dBμV/m	dBμV/m	dB
5464.30	E	Peak	56.62	8.74	65.36	68.30	-2.94
5470.00	E	Peak	52.58	8.74	61.32	68.30	-6.98

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13. FREQUENCY STABILITY

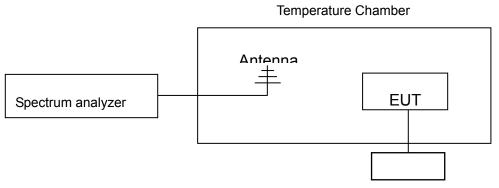
13.1Standard Applicable

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

13.2Measurement Procedure

- The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
- 2. Set EUT as normal operation.
- 3. Turn the EUT on and couple its output to spectrum.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
- 6. Repeat step with the temperature chamber set to the lowest temperature.

13.3Test SET-UP



Variable AC Power Supply

13.4Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	2017/10/16	2018/10/15				
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/11/27				
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01				
Notebook	Lenovo	T440	P0000564	N/A	N/A				
Temperature Chamber	TERCHY	MHG-120LF	911009	2017/05/19	2018/5/18				

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13.5Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		36	5180	5,180.00000	0.00000000
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
	4.43V	64	5320	5,319.98486	0.00000285
		100	5500	5,500.00000	0.00000000
		116	5580	5,580.00000	0.00000000
		140	5700	5,699.98486	0.00000266
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
-10		36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
	3.27V	64	5320	5,320.00000	0.00000000
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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r					
		36	5180	5,179.98486	0.00000292
		44	5220	5,219.98486	0.00000290
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,300.00000	0.00000000
25	3.85V	64	5320	5,320.00000	0.00000000
		100	5500	5,500.00000	0.00000000
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
					0.0005
		36	5180	5,179.98486	0.00000292
		44	5220	5,220.00000	0.00000000
		48	5240	5,239.98486	0.00000289
		52	5260	5,260.00000	0.00000000
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
	4.43V	100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,700.00000	0.00000000
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
55		36	5180	5,180.00000	0.00000000
		44	5220	5,220.00000	0.00000000
		48	5240	5,240.00000	0.00000000
		52	5260	5,260.01514	-0.00000288
		60	5300	5,300.00000	0.00000000
	3.27V	64	5320	5,319.98486	0.00000285
		100	5500	5,499.98486	0.00000275
		116	5580	5,579.98486	0.00000271
		140	5700	5,699.98486	0.00000266
		149	5745	,	1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
			5525		

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		38	5190	5,189.97510	0.00000480
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.00000	0.00000000
	4.43V	102	5510	5,510.00000	0.00000000
		110	5550	5,549.97510	0.00000449
		134	5670	5,669.97510	0.00000439
		151	5755		1.00000000
-10		159	5795		1.00000000
		38	5190	5,189.97510	0.00000480
		46	5230	5,229.97510	0.00000476
		54	5270	5,269.97510	0.00000473
		62	5310	5,309.97510	0.00000469
	3.27V	102	5510	5,509.97510	0.00000452
		110	5550	5,550.00000	0.00000000
		134	5670	5,669.97510	0.00000439
		151	5755		1.00000000
		159	5795		1.00000000

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38						
S4 5270 5,270.00000 0.000000000			38	5190	5,190.00000	0.00000000
25 3.85V 102 5510 5,309.97510 0.00000469 110 5550 5,549.97510 0.000000449 134 5670 5,670.0000 0.00000000 151 5755 1.000000 159 5795 1.0000000 46 5230 5,229.97510 0.00000476 54 5270 5,270.0000 0.00000000 151 5755 1.00000000000000000000000000000000000			46	5230	5,230.00000	0.00000000
25 3.85V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,670.00000 0.00000000 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,229.97510 0.00000476 54 5270 5,270.00000 0.00000000 62 5310 5,310.00000 0.00000000 102 5510 5,509.97510 0.00000449 134 5670 5,669.97510 0.00000449 134 5670 5,669.97510 0.0000000 159 5795 1.00000000 159 5795 1.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000473 62 5310 5,309.97510 0.00000473 62 5310 5,309.97510 0.00000473 62 5310 5,549.97510 0.00000494			54	5270	5,270.00000	0.00000000
110 5550 5,549,97510 0.00000449 134 5670 5,670.00000 0.00000000 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,229,97510 0.00000476 54 5270 5,270.00000 0.00000000 62 5310 5,310.00000 0.00000000 62 5310 5,599,97510 0.00000452 110 5550 5,549,97510 0.0000049 134 5670 5,669,97510 0.0000049 159 5795 1.0000000 159 5795 1.00000000 54 5230 5,230.00000 0.00000000 54 5270 5,269,97510 0.00000473 62 5310 5,309,97510 0.00000473 62 5310 5,309,97510 0.00000473 62 5310 5,309,97510 0.00000473 62 5310 5,309,97510 0.00000473 62 5310 5,309,97510 0.00000473 62 5310 5,309,97510 0.00000449 134 5670 5,669,97510 0.00000449 134 5670 5,669,97510 0.00000449 134 5670 5,669,97510 0.00000449 134 5670 5,669,97510 0.00000449 134 5670 5,669,97510 0.00000439 151 5755 1.0000000			62	5310	5,309.97510	0.00000469
134 5670 5,670.00000 0.000000000 151 5795 1.00000000 1.000000000 159 5795 1.000000000 1.000000000 1.000000000 1.00000000	25	3.85V	102	5510	5,510.00000	0.00000000
151 5755 1.00000000 159 5795 1.00000000 38 5190 5,189.97510 0.00000480 46 5230 5,229.97510 0.00000476 54 5270 5,270.00000 0.000000000 62 5310 5,310.00000 0.000000000 62 5510 5,509.97510 0.00000452 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.0000000 159 5795 1.00000000 159 5795 1.00000000 54 5230 5,230.0000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000449 134 5670 5,669.97510 0.00000449 134 5670 5,669.97510 0.000000439 151 5755 1.0000000			110	5550	5,549.97510	0.00000449
159 5795 1.00000000 38 5190 5,189.97510 0.00000480 46 5230 5,229.97510 0.00000476 54 5270 5,270.00000 0.00000000 62 5310 5,310.00000 0.00000000 100 5550 5,549.97510 0.00000439 134 5670 5,669.97510 0.00000439 151 5755 1.0000000 0.00000000 159 5795 1.0000000 0.00000000 46 5230 5,230.00000 0.00000000 159 5795 1.0000000 0.00000000 46 5230 5,230.00000 0.000000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.0000049 3.27V 102 5510 5,549.97510 0.00000449 134 5670 5,569.97510 0.00000449 134 5670 5,669.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.000000 0.00000000			134	5670	5,670.00000	0.00000000
5190 5,189.97510 0.00000480 46 5230 5,229.97510 0.00000476 54 5270 5,270.00000 0.00000000 62 5310 5,310.00000 0.00000000 102 5510 5,509.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000			151	5755		1.00000000
46 5230 5,229.97510 0.00000476 54 5270 5,270.00000 0.00000000 62 5310 5,310.00000 0.00000000 102 5510 5,509.97510 0.00000452 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.000000439 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000049 134 5670 5,669.97510 0.00000439 151 5755 1.00000000			159	5795		1.00000000
54 5270 5,270.00000 0.00000000 62 5310 5,310.00000 0.00000000 102 5510 5,509.97510 0.00000452 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000			38	5190	5,189.97510	0.00000480
4.43V 62 5310 5,310.00000 0.00000000 102 5510 5,509.97510 0.00000452 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000			46	5230	5,229.97510	0.00000476
4.43V 102 5510 5,509.97510 0.00000452 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.000000449 134 5670 5,669.97510 0.000000439 151 5755 1.00000000			54	5270	5,270.00000	0.00000000
110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000 159 5795 1.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,549.97510 0.00000449 134 5670 5,669.97510 0.000000439 151 5755 1.00000000			62	5310	5,310.00000	0.00000000
134 5670 5,669.97510 0.00000439 151 5755 1.00000000 159 5795 1.00000000 38 5190 5,190.00000 0.00000000 46 5230 5,230.00000 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000049 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.000000439 151 5755 1.000000000		4.43V	102	5510	5,509.97510	0.00000452
55 151 5755 1.00000000 159 5795 1.00000000 38 5190 5,190.00000 0.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.000000439 151 5755 1.000000000			110	5550	5,549.97510	0.00000449
159 5795 1.00000000 38 5190 5,190.00000 0.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.000000439 151 5755 1.000000000			134	5670	5,669.97510	0.00000439
38 5190 5,190.00000 0.00000000 46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.000000439 151 5755 1.000000000			151	5755		1.00000000
46 5230 5,230.00000 0.00000000 54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.000000000			159	5795		1.00000000
54 5270 5,269.97510 0.00000473 62 5310 5,309.97510 0.00000469 3.27V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.000000000	55		38	5190	5,190.00000	0.00000000
3.27V			46	5230	5,230.00000	0.00000000
3.27V 102 5510 5,510.00000 0.00000000 110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.000000000			54	5270	5,269.97510	0.00000473
110 5550 5,549.97510 0.00000449 134 5670 5,669.97510 0.00000439 151 5755 1.00000000			62	5310	5,309.97510	0.00000469
134 5670 5,669.97510 0.00000439 151 5755 1.00000000		3.27V	102	5510	5,510.00000	0.00000000
151 5755 1.00000000			110	5550	5,549.97510	0.00000449
			134	5670	5,669.97510	0.00000439
159 5795 1.00000000			151	5755		1.00000000
			159	5795		1.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
	4.43V	106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
-10		155	5775		1.00000000
		42	5210	5,209.95020	0.00000956
		58	5290	5,290.00000	0.00000000
	3.27V	106	5530	5,529.95020	0.00000901
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000
		42	5210	5,210.04981	-0.00000956
		58	5290	5,290.00000	0.00000000
25	3.85V	106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000
		42	5210	5,209.95020	0.00000956
		58	5290	5,290.00000	0.00000000
	4.43V	106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
55		155	5775		1.00000000
		42	5210	5,210.00000	0.00000000
		58	5290	5,290.04981	-0.00000941
	3.27V	106	5530	5,529.95020	0.00000901
		122	5610	5,610.00000	0.00000000
		155	5775		1.00000000

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		36	5180	5,179.99866	0.00000026
		44	5220	5,219.97505	0.00000478
		48	5240	5,239.98210	0.00000342
		52	5260	5,259.97677	0.00000442
		60	5300	5,299.98295	0.00000322
	4.43V	64	5320	5,319.99233	0.00000144
		100	5500	5,500.00728	-0.00000132
		116	5580	5,579.99535	0.00000083
		140	5700	5,699.98072	0.00000338
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
-10		36	5180	5,179.99339	0.00000128
		44	5220	5,219.98525	0.00000283
		48	5240	5,239.99115	0.00000169
		52	5260	5,259.99368	0.00000120
		60	5300	5,299.98195	0.00000341
	3.27V	64	5320	5,319.99377	0.00000117
		100	5500	5,499.97929	0.00000377
		116	5580	5,579.98749	0.00000224
		140	5700	5,699.97541	0.00000431
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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		36	5180	5,179.98633	0.00000264
		44	5220	5,219.98500	0.00000287
		48	5240	5,239.97782	0.00000423
		52	5260	5,259.98776	0.00000233
		60	5300	5,299.99945	0.00000010
25	3.85V	64	5320	5,319.99465	0.00000101
		100	5500	5,499.99657	0.00000062
		116	5580	5,579.98389	0.00000289
		140	5700	5,699.97983	0.00000354
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
				-	
		36	5180	5,179.98921	0.00000208
		44	5220	5,219.99787	0.00000041
		48	5240	5,239.99479	0.00000100
		52	5260	5,259.99440	0.00000107
		60	5300	5,299.98500	0.00000283
		64	5320	5,319.97640	0.00000444
	4.43V	100	5500	5,499.99469	0.00000097
		116	5580	5,579.98180	0.00000326
		140	5700	5,700.00464	-0.00000081
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
55		36	5180	5,179.99164	0.00000161
		44	5220	5,220.00213	-0.00000041
		48	5240	5,239.99440	0.00000107
		52	5260	5,260.01151	-0.00000219
		60	5300	5,300.00362	-0.00000068
	3.27V	64	5320	5,319.97495	0.00000471
		100	5500	5,499.98314	0.00000306
		116	5580	5,579.98065	0.00000347
		140	5700	5,699.98741	0.00000221
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %	-	

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		38	5190	5,189.97698	0.00000444
		46	5230	5,229.99771	0.00000044
		54	5270	5,269.99468	0.00000101
		62	5310	5,309.99716	0.00000053
	4.43V	102	5510	5,510.00926	-0.00000168
		110	5550	5,549.97606	0.00000431
		134	5670	5,669.97989	0.00000355
		151	5755		1.00000000
-10		159	5795		1.00000000
		38	5190	5,189.97466	0.00000488
		46	5230	5,229.98368	0.00000312
		54	5270	5,269.98431	0.00000298
		62	5310	5,309.97880	0.00000399
	3.27V	102	5510	5,509.97258	0.00000498
		110	5550	5,550.00584	-0.00000105
		134	5670	5,669.96985	0.00000532
		151	5755		1.00000000
		159	5795		1.00000000

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		38	5190	5,190.00017	-0.00000003
		46	5230	5,229.99020	0.00000187
		54	5270	5,269.99165	0.00000158
		62	5310	5,309.98330	0.00000315
25	3.85V	102	5510	5,510.00790	-0.00000143
		110	5550	5,549.97886	0.00000381
		134	5670	5,670.00634	-0.00000112
		151	5755		1.00000000
		159	5795		1.00000000
		38	5190	5,189.97924	0.00000400
		46	5230	5,229.97411	0.00000495
		54	5270	5,269.99580	0.00000080
	4.43V	62	5310	5,310.00635	-0.00000120
		102	5510	5,509.96834	0.00000575
		110	5550	5,549.96523	0.00000626
		134	5670	5,669.97927	0.00000366
		151	5755		1.00000000
		159	5795		1.00000000
55		38	5190	5,189.99216	0.00000151
		46	5230	5,229.99668	0.00000063
		54	5270	5,269.98457	0.00000293
		62	5310	5,309.98184	0.00000342
	3.27V	102	5510	5,509.99152	0.00000154
		110	5550	5,549.97234	0.00000498
		134	5670	5,669.97864	0.00000377
		151	5755		1.00000000
		159	5795		1.00000000

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %	-	

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		42	5210	\ /	0.00000044
		-		5,209.99770	0.00000044
	4.4007	58	5290	5,290.00902	-0.00000171
	4.43V	106	5530	5,529.99824	0.00000032
		122	5610	5,609.99937	0.0000011
-10		155	5775		1.00000000
		42	5210	5,209.95337	0.00000895
		58	5290	5,290.00680	-0.00000128
	3.27V	106	5530	5,529.94030	0.00001079
		122	5610	5,610.00591	-0.00000105
		155	5775		1.00000000
		42	5210	5,210.05603	-0.00001075
		58	5290	5,289.99432	0.00000107
25	3.85V	106	5530	5,530.00362	-0.00000065
		122	5610	5,609.99320	0.00000121
		155	5775		1.00000000
	4.43V	42	5210	5,209.96012	0.00000766
		58	5290	5,289.99471	0.00000100
		106	5530	5,529.99097	0.00000163
		122	5610	5,610.00170	-0.00000030
55		155	5775		1.00000000
		42	5210	5,209.99348	0.00000125
	3.27V	58	5290	5,290.05761	-0.00001089
		106	5530	5,529.94488	0.00000997
		122	5610	5,609.99486	0.00000092
		155	5775		1.00000000

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		36	5180	5,179.99540	0.00000089
		44	5220	5,219.98415	0.00000304
		48	5240	5,239.98364	0.00000312
		52	5260	5,259.97489	0.00000477
		60	5300	5,299.98185	0.00000342
	4.43V	64	5320	5,319.99051	0.00000178
		100	5500	5,500.00688	-0.00000125
		116	5580	5,579.99707	0.00000053
		140	5700	5,699.98819	0.00000207
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000
-10	3.27V	36	5180	5,179.97699	0.00000444
		44	5220	5,219.99443	0.00000107
		48	5240	5,239.98871	0.00000215
		52	5260	5,259.99484	0.00000098
		60	5300	5,299.98836	0.00000220
		64	5320	5,320.00152	-0.00000029
		100	5500	5,499.99325	0.00000123
		116	5580	5,579.97954	0.00000367
		140	5700	5,699.98665	0.00000234
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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36						_
A8			36	5180	5,179.98800	0.00000232
S2 5260 5,259,98230 0.00000336			44	5220	5,219.97889	0.00000404
3.85V			48	5240	5,239.98617	0.00000264
3.85V			52	5260	5,259.98230	0.00000336
100 5500 5,499.99172 0.00000151 116 5580 5,579.98215 0.00000320 140 5700 5,699.98387 0.00000283 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.000000000 44 5220 5,219.99029 0.00000186 48 5240 5,239.97891 0.0000042 52 5260 5,260.00061 -0.00000012 64 5320 5,319.99812 0.00000269 44.3V 100 5500 5,499.9864 0.00000243 116 5580 5,579.98547 0.00000260 140 5700 5,700.00818 -0.00000144 149 5745 1.00000000 155 5825 1.000000000 157 5785 1.00000000 158 5825 1.000000000000000000000000000000000000			60	5300	5,300.00346	-0.00000065
116 5580 5,579.98215 0.00000320 140 5700 5,699.98387 0.00000283 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219.99029 0.00000186 48 5240 5,239.97891 0.00000402 52 5260 5,260.00061 -0.00000012 60 5300 5,299.97582 0.00000269 4.43V 100 5500 5,499.9864 0.00000243 116 5580 5,579.98547 0.00000260 140 5700 5,700.00818 -0.00000144 149 5745 1.00000000 155 5825 1.000000000000000000000000000000000000	25	3.85V	64	5320	5,320.00970	-0.00000182
140 5700 5,699,98387 0.00000283 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219,99029 0.00000186 48 5240 5,239,97891 0.00000402 52 5260 5,260,00061 -0.00000012 60 5300 5,299,97582 0.00000265 64 5320 5,319,98912 0.00000265 64 5320 5,319,98912 0.00000265 116 5580 5,579,98547 0.00000260 140 5700 5,700,00818 -0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.000000000 165 5825 5.200,00782 -0.00000144 48 5220 5,219,99091 0.000000144 48 5220 5,219,99091 0.000000144 48 5220 5,219,99091 0.000000144 52 5260 5,260,00782 -0.00000144 52 5260 5,260,00782 -0.00000144 52 5260 5,260,00782 -0.00000149 60 5300 5,300,00027 -0.000000014 60 5300 5,300,00027 -0.000000014 100 5500 5,499,98416 0.00000248 116 5580 5,579,98852 0.00000206 140 5700 5,699,97859 0.00000206 140 5700 5,699,97859 0.00000000			100	5500	5,499.99172	0.00000151
149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 36 5180 5,179,98607 0.00000269 44 5220 5,219,99029 0.00000186 48 5240 5,239,97891 0.00000012 52 5260 5,260,00061 -0.00000012 60 5300 5,299,97582 0.0000012 64 5320 5,319,98912 0.00000265 64 5320 5,319,98912 0.00000260 116 5580 5,579,98547 0.00000260 140 5700 5,700,00818 -0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000000000000000000000000000000			116	5580	5,579.98215	0.00000320
157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219,99029 0.00000186 48 5240 5,239,97891 0.00000402 52 5260 5,260,00061 -0.00000012 60 5300 5,299,97582 0.00000456 64 5320 5,319,98912 0.00000243 116 5580 5,579,98547 0.00000243 116 5580 5,579,98547 0.00000240 140 5700 5,700,00818 -0.0000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.0000000000 165 5825 1.00			140	5700	5,699.98387	0.00000283
165 5825 1.00000000000000000000000000000000000			149	5745		1.00000000
36			157	5785		1.00000000
44 5220 5,219.99029 0.00000186 48 5240 5,239.97891 0.000000402 52 5260 5,260.00061 -0.00000012 60 5300 5,299.97582 0.00000265 64 5320 5,319.98912 0.00000243 116 5580 5,579.98547 0.00000243 116 5580 5,579.98547 0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219.99091 0.00000144 48 5240 5,240.00598 -0.00000149 60 5300 5,300.00027 -0.00000014 52 5260 5,260.00782 -0.00000149 60 5300 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157			165	5825		1.00000000
44 5220 5,219.99029 0.00000186 48 5240 5,239.97891 0.000000402 52 5260 5,260.00061 -0.00000012 60 5300 5,299.97582 0.00000265 64 5320 5,319.98912 0.00000243 116 5580 5,579.98547 0.00000243 116 5580 5,579.98547 0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219.99091 0.00000144 48 5240 5,240.00598 -0.00000149 60 5300 5,300.00027 -0.00000014 52 5260 5,260.00782 -0.00000149 60 5300 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157						
44 5220 5,219.99029 0.00000186 48 5240 5,239.97891 0.000000402 52 5260 5,260.00061 -0.00000012 60 5300 5,299.97582 0.00000265 64 5320 5,319.98912 0.00000243 116 5580 5,579.98547 0.00000243 116 5580 5,579.98547 0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219.99091 0.00000144 48 5240 5,240.00598 -0.00000149 60 5300 5,300.00027 -0.00000014 52 5260 5,260.00782 -0.00000149 60 5300 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157			36	5180	5,179.98607	0.00000269
52 5260 5,260.00061 -0.00000012 60 5300 5,299.97582 0.00000456 64 5320 5,319.98912 0.00000205 100 5500 5,499.98664 0.00000243 116 5580 5,579.98547 0.00000260 140 5700 5,700.00818 -0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.000000044 44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000276 140 5700 5,699.97859 0.00000376 149 5745 1.00000000			44	5220	5,219.99029	0.00000186
55 60 5300 5,299.97582 0.00000456 64 5320 5,319.98912 0.00000205 100 5500 5,499.98664 0.00000243 116 5580 5,579.98547 0.00000260 140 5700 5,700.00818 0.00000144 149 5745 1.00000000 165 5825 1.00000004 44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 0.00000114 52 52 5260 5,260.00782 0.00000149 60 5300 5,300.00027 0.00000015 60 5300 5,300.00027 0.00000041 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000276 140 5700 5,699.97859 0.00000376 149 5745 1.00000000			48	5240	5,239.97891	0.00000402
4.43V 64 5320 5,319.98912 0.00000205 100 5500 5,499.98664 0.00000243 116 5580 5,579.98547 0.00000260 140 5700 5,700.00818 -0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219.99071 0.00000174 48 5240 5,240.00598 -0.00000149 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.00000000			52	5260	5,260.00061	-0.00000012
4.43V 100 5500 5,499.98664 0.00000243 116 5580 5,579.98547 0.00000260 140 5700 5,700.00818 -0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219.99071 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.00000000			60	5300	5,299.97582	0.00000456
116 5580 5,579.98547 0.00000260 140 5700 5,700.00818 -0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.0000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.00000000			64	5320	5,319.98912	0.00000205
140 5700 5,700.00818 -0.00000144 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,179.99770 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.0000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.00000000		4.43V	100	5500	5,499.98664	0.00000243
149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 36 5180 5,179.99770 0.00000044 44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.00000000			116	5580	5,579.98547	0.00000260
157 5785 1.00000000 165 5825 1.00000000 36 5180 5,179.99770 0.00000044 44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.000000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.000000000			140	5700	5,700.00818	-0.00000144
35 165 5825 1.00000000 36 5180 5,179.99770 0.00000044 44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.000000000			149	5745		1.00000000
36 5180 5,179.99770 0.00000044 44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.000000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.000000000			157	5785		1.00000000
44 5220 5,219.99091 0.00000174 48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.000000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.000000000 157 5785 1.000000000			165	5825		1.00000000
48 5240 5,240.00598 -0.00000114 52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.000000000	55		36	5180	5,179.99770	0.00000044
52 5260 5,260.00782 -0.00000149 60 5300 5,300.00027 -0.00000005 3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.000000000			44	5220	5,219.99091	0.00000174
3.27V			48	5240	5,240.00598	-0.00000114
3.27V 64 5320 5,319.97652 0.00000441 100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.000000000			52		5,260.00782	-0.00000149
100 5500 5,499.98416 0.00000288 116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.000000000			60	5300	5,300.00027	-0.00000005
116 5580 5,579.98852 0.00000206 140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.00000000		3.27V	64	5320	5,319.97652	0.00000441
140 5700 5,699.97859 0.00000376 149 5745 1.00000000 157 5785 1.00000000			100	5500	5,499.98416	0.00000288
149 5745 1.00000000 157 5785 1.00000000			116	5580	5,579.98852	0.00000206
157 5785 1.00000000			140	5700	5,699.97859	0.00000376
			149	5745		1.00000000
165 5825 1.00000000			157	5785		1.00000000
			165	5825		1.00000000

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		38	5190	5,189.96803	0.00000616
		46	5230	5,229.99042	0.00000183
		54	5270	5,270.00965	-0.00000183
		62	5310	5,310.00755	-0.00000142
	4.43V	102	5510	5,510.00117	-0.00000021
		110	5550	5,549.97046	0.00000532
		134	5670	5,669.98002	0.00000352
		151	5755		1.00000000
-10		159	5795		1.00000000
		38	5190	5,189.96711	0.00000634
		46	5230	5,229.97422	0.00000493
		54	5270	5,269.97004	0.00000569
		62	5310	5,309.98216	0.00000336
	3.27V	102	5510	5,509.96773	0.00000586
		110	5550	5,550.00118	-0.00000021
		134	5670	5,669.96763	0.00000571
		151	5755		1.00000000
		159	5795		1.00000000

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SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279



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-					
		38	5190	5,190.00039	-0.00000008
		46	5230	5,229.99115	0.00000169
		54	5270	5,270.00826	-0.00000157
		62	5310	5,309.96717	0.00000618
25	3.85V	102	5510	5,509.99943	0.00000010
		110	5550	5,549.98132	0.00000337
		134	5670	5,670.00706	-0.00000124
		151	5755		1.00000000
		159	5795		1.00000000
		38	5190	5,189.97043	0.00000570
		46	5230	5,229.97408	0.00000496
		54	5270	5,269.99360	0.00000121
	4.43V	62	5310	5,310.00608	-0.00000115
		102	5510	5,509.97573	0.00000440
		110	5550	5,549.97537	0.00000444
		134	5670	5,669.98269	0.00000305
		151	5755		1.00000000
		159	5795		1.00000000
55		38	5190	5,189.99364	0.00000123
		46	5230	5,229.99561	0.00000084
		54	5270	5,269.96559	0.00000653
		62	5310	5,309.97576	0.00000456
	3.27V	102	5510	5,509.99435	0.00000102
		110	5550	5,549.97327	0.00000482
		134	5670	5,669.97532	0.00000435
		151	5755		1.00000000
		159	5795		1.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %	-	

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		42	5210	5,209.99434	0.00000109
		58	5290	5,290.00203	-0.00000038
	4.43V	106	5530	5,530.00813	-0.00000147
		122	5610	5,610.00299	-0.00000053
-10		155	5775		1.00000000
		42	5210	5,209.95831	0.00000800
		58	5290	5,290.00232	-0.00000044
	3.27V	106	5530	5,529.95796	0.00000760
		122	5610	5,610.00133	-0.00000024
		155	5775		1.00000000
	3.85V	42	5210	5,210.04185	-0.00000803
		58	5290	5,289.99917	0.00000016
25		106	5530	5,530.00978	-0.00000177
		122	5610	5,609.99599	0.00000072
		155	5775		1.00000000
		42	5210	5,209.95734	0.00000819
	4.43V	58	5290	5,289.99040	0.00000181
		106	5530	5,530.00073	-0.00000013
		122	5610	5,610.00885	-0.00000158
55		155	5775		1.00000000
		42	5210	5,210.00333	-0.00000064
		58	5290	5,290.05915	-0.00001118
	3.27V	106	5530	5,529.95519	0.00000810
		122	5610	5,610.00282	-0.00000050
		155	5775		1.00000000

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		36	5180	5,179.99464	0.00000104
		44	5220	5,219.97806	0.00000420
		48	5240	5,239.98782	0.00000233
		52	5260	5,259.97606	0.00000455
		60	5300	5,299.97812	0.00000413
	4.43V	64	5320	5,319.98235	0.00000332
		100	5500	5,499.99508	0.00000089
		116	5580	5,580.00941	-0.00000169
		140	5700	5,699.98297	0.00000299
		149	5745		1.00000000
		157	5785		1.00000000
-10		165	5825		1.00000000
	3.27V	36	5180	5,179.97614	0.00000461
		44	5220	5,219.97684	0.00000444
		48	5240	5,239.98723	0.00000244
		52	5260	5,259.97558	0.00000464
		60	5300	5,299.98249	0.00000330
		64	5320	5,320.00811	-0.00000152
		100	5500	5,499.99023	0.00000178
		116	5580	5,579.98323	0.00000301
		140	5700	5,699.98761	0.00000217
		149	5745		1.00000000
		157	5785		1.00000000
		165	5825		1.00000000

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36 5180 5,179,99182 0.00000158 44 5220 5,219,98613 0.00000266 48 5240 5,239,99242 0.00000145 52 5260 5,259,99128 0.00000166 60 5300 5,300,00295 -0.00000160 100 5500 5,499,99220 0.00000142 116 5580 5,579,98860 0.00000204 140 5700 5,699,99466 0.00000000 157 5785 1.00000000 165 5825 1.00000000 48 5240 5,239,98494 0.00000287 52 5260 5,260,00243 -0.00000044 60 5300 5,299,9834 0.00000287 52 5260 5,260,00243 -0.00000044 64 5320 5,319,97661 0.00000044 64 5320 5,319,97661 0.00000044 64 5320 5,319,97661 0.00000044 65 580 5,579,98688 0.00000235 140 5700 5,700.00674 -0.0000114 116 5580 5,579,98688 0.0000035 140 5700 5,700.00674 -0.00000114 149 5745 1.00000000 157 5785 1.00000000 157 5785 1.00000000 157 5785 1.00000000 165 5825 1.00000000 3.27V 64 5320 5,319,99406 0.00000111 52 5260 5,260,02125 -0.00000404 60 5300 5,399,99418 0.00000111 52 5260 5,260,02125 -0.00000404 60 5300 5,399,99418 0.00000111 52 5260 5,260,02125 -0.00000404 60 5300 5,390,9916 -0.00000112 100 5500 5,499,98279 0.0000013 3.27V 64 5320 5,319,99406 0.00000112 100 5500 5,499,98279 0.00000313 116 5580 5,579,97888 0.00000317 140 5700 5,699,97672 0.00000408 149 5745 1.00000000 157 5785 1.00000000 157 5785 1.00000000						
A8			36	5180	5,179.99182	0.00000158
S2 5260 5,259,99128 0.00000166			44	5220	5,219.98613	0.00000266
3.85V 64 5320 5,319.9946 0.00000010 100 5500 5,499.9920 0.00000142 116 5580 5,579.98860 0.00000001 140 5700 5,699.99466 0.00000000 147 5745 1.00000000 157 5785 1.00000000 165 5825 1.000000287 52 5260 5,260.00243 -0.00000287 52 5260 5,260.00243 -0.00000046 60 5300 5,299.98934 0.00000201 64 5320 5,319.97661 0.00000040 64 5320 5,319.97661 0.00000014 149 5745 1.00000000 157 5785 1.000000000000000000000000000000000000			48	5240	5,239.99242	0.00000145
3.85V			52	5260	5,259.99128	0.00000166
100			60	5300	5,300.00295	-0.00000056
116 5580 5,579.98860 0.00000204 140 5700 5,699.99466 0.00000094 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.000000005 48 5240 5,239.98494 0.00000287 52 5260 5,260.00243 -0.0000044 60 5300 5,299.98934 0.00000244 4.43V 100 5500 5,499.99041 0.00000144 149 5745 1.00000000 165 5825 1.000000000000000000000000000000000000	25	3.85V	64	5320	5,319.99946	0.00000010
140 5700			100	5500	5,499.99220	0.00000142
149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 36 5180 5,179,99260 0.00000143 44 5220 5,219,99692 0.000000287 52 5260 5,260,00243 -0.00000046 60 5300 5,299,98934 0.00000201 64 5320 5,319,97661 0.00000174 116 5580 5,579,98688 0.00000235 140 5700 5,700,00674 -0.00000118 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.000000000 165 5825 1.00000000111 52 52 5260 5,260,02125 -0.00000111 52 52 5260 5,260,02125 -0.00000111 52 52 5260 5,260,02125 -0.00000111 52 52 5260 5,260,02125 -0.00000113 140 5700 5,300,00916 -0.00000111 52 52 5260 5,260,02125 -0.00000113 166 5580 5,579,97898 0.00000377 167 5785 1.000000000 178 5500 5,499,98279 0.00000313 189 5745 1.000000000			116	5580	5,579.98860	0.00000204
157 5785 1.00000000 165 5825 1.00000000 44 5220 5,219,99692 0.00000059 48 5240 5,239,98494 0.00000287 52 5260 5,260,00243 -0.00000046 60 5300 5,299,98934 0.00000201 64 5320 5,319,97661 0.00000440 64 5320 5,319,97661 0.00000174 116 5580 5,579,98688 0.00000235 140 5700 5,700,00674 -0.00000118 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 165 5825 1.00000000 167 5785 1.00000000 168 5240 5,239,99418 0.00000111 52 5260 5,260,02125 -0.00000112 100 5500 5,499,98279 0.00000013 3.27V 64 5320 5,319,99406 0.00000112 100 5500 5,499,98279 0.00000377 140 5700 5,699,97672 0.00000000 157 5785 1.00000000 157 5785 1.00000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.000000000 157 5785 1.00000000000000000000000000000000000			140	5700	5,699.99466	0.00000094
165 5825 1.00000000000000000000000000000000000			149	5745		1.00000000
36			157	5785		1.00000000
44 5220 5,219.99692 0.00000059 48 5240 5,239.98494 0.00000287 52 5260 5,260.00243 -0.00000046 60 5300 5,299.98934 0.00000201 64 5320 5,319.97661 0.00000440 100 5500 5,499.99041 0.00000174 116 5580 5,579.98688 0.00000235 140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 165 5825 1.00000000 165 5825 1.00000000 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 <			165	5825		1.00000000
44 5220 5,219.99692 0.00000059 48 5240 5,239.98494 0.00000287 52 5260 5,260.00243 -0.00000046 60 5300 5,299.98934 0.00000201 64 5320 5,319.97661 0.00000440 100 5500 5,499.99041 0.00000174 116 5580 5,579.98688 0.00000235 140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 165 5825 1.00000000 165 5825 1.00000000 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 <						
48 5240 5,239,98494 0.00000287 52 5260 5,260.00243 -0.00000046 60 5300 5,299,98934 0.00000201 64 5320 5,319,97661 0.00000174 110 5500 5,499,99041 0.00000174 116 5580 5,579,98688 0.00000235 140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,220.00605 -0.00000116 48 5240 5,239,99418 0.00000111 52 5260 5,260.02125 -0.00000173 3.27V 64 5320 5,319,99406 0.00000112 100 5500 5,499,98279 0.00000313 116 5580 5,579,97898 0.00000377 140 5700 5,699,97672 0.00000408 149 5745 1.00000000			36	5180	5,179.99260	0.00000143
52 5260 5,260.00243 -0.00000046 60 5300 5,299.98934 0.00000201 64 5320 5,319.97661 0.00000440 116 5580 5,579.98688 0.00000235 140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 165 5825 1.00000000 164 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000			44	5220	5,219.99692	0.00000059
55 60 5300 5,299.98934 0.00000201 64 5320 5,319.97661 0.00000440 100 5500 5,499.99041 0.00000174 116 5580 5,579.98688 0.00000235 140 5700 5,700.00674 0.00000118 149 5745 1.00000000 165 5825 1.00000000 165 5825 1.000000000 165 5825 1.000000000 164 520 5,220.00605 0.00000116 48 5240 5,239.99418 0.00000111 52 52 5260 5,260.02125 0.00000404 60 5300 5,300.00916 0.00000173 3.27V 64 5320 5,319.99406 0.00000173 3.27V 64 5320 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000			48	5240	5,239.98494	0.00000287
4.43V 5320 5,319.97661 0.00000440 100 5500 5,499.99041 0.00000174 116 5580 5,579.98688 0.00000235 140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 165 5825 1.00000000 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.000000000			52	5260	5,260.00243	-0.00000046
4.43V 100 5500 5,499.99041 0.00000174 116 5580 5,579.98688 0.00000235 140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.00000000			60	5300	5,299.98934	0.00000201
116 5580 5,579,98688 0.00000235 140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,280.00432 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.00000000			64	5320	5,319.97661	0.00000440
140 5700 5,700.00674 -0.00000118 149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 44 5220 5,280.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000000 149 5745 1.00000000 157 5785 1.00000000		4.43V	100	5500	5,499.99041	0.00000174
149 5745 1.00000000 157 5785 1.00000000 165 5825 1.00000000 36 5180 5,180.00432 -0.00000083 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.00000000			116	5580	5,579.98688	0.00000235
157 5785 1.00000000 165 5825 1.00000000 36 5180 5,180.00432 -0.00000016 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.000000000			140	5700	5,700.00674	-0.00000118
36 5180 5,180.00432 -0.00000083 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.000000000			149	5745		1.00000000
36 5180 5,180.00432 -0.00000083 44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.000000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.000000000 157 5785 1.000000000			157	5785		1.00000000
44 5220 5,220.00605 -0.00000116 48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.000000000 157 5785 1.000000000			165	5825		1.00000000
48 5240 5,239.99418 0.00000111 52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.000000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.000000000	55		36	5180	5,180.00432	-0.00000083
52 5260 5,260.02125 -0.00000404 60 5300 5,300.00916 -0.00000173 3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.000000000 157 5785 1.000000000			44	5220	5,220.00605	-0.00000116
3.27V			48	5240	5,239.99418	0.00000111
3.27V 64 5320 5,319.99406 0.00000112 100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.000000000			52	5260	5,260.02125	-0.00000404
100 5500 5,499.98279 0.00000313 116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.000000000			60	5300	5,300.00916	-0.00000173
116 5580 5,579.97898 0.00000377 140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.00000000		3.27V	64	5320	5,319.99406	0.00000112
140 5700 5,699.97672 0.00000408 149 5745 1.00000000 157 5785 1.00000000			100	5500	5,499.98279	0.00000313
149 5745 1.00000000 157 5785 1.00000000			116	5580	5,579.97898	0.00000377
157 5785 1.00000000			140	5700	5,699.97672	0.00000408
			149	5745		1.00000000
165 5825 1.00000000			157	5785		1.00000000
			165	5825		1.00000000

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Operation Mode	802.11 n_HT40	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %	-	

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		38	5190	5,189.97821	0.00000420
		46	5230	5,230.00230	-0.00000044
		54	5270	5,270.00703	-0.00000133
		62	5310	5,310.00257	-0.00000048
	4.43V	102	5510	5,510.00797	-0.00000145
		110	5550	5,549.98148	0.00000334
		134	5670	5,669.98261	0.00000307
-10		151	5755		1.00000000
		159	5795		1.00000000
	3.27V	38	5190	5,189.97909	0.00000403
		46	5230	5,229.98483	0.00000290
		54	5270	5,269.98402	0.00000303
		62	5310	5,309.96931	0.00000578
		102	5510	5,509.98277	0.00000313
		110	5550	5,550.00385	-0.00000069
		134	5670	5,669.97354	0.00000467
		151	5755		1.00000000
		159	5795		1.00000000

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		38	5190	5,190.00729	-0.00000140
		46	5230	5,230.00801	-0.00000153
		54	5270	5,270.00422	-0.00000080
		62	5310	5,309.96713	0.00000619
25	3.85V	102	5510	5,510.00178	-0.00000032
		110	5550	5,549.97323	0.00000482
		134	5670	5,670.00937	-0.00000165
		151	5755		1.00000000
		159	5795		1.00000000
		38	5190	5,189.97375	0.00000506
		46	5230	5,229.96915	0.00000590
	4.43V	54	5270	5,269.99399	0.00000114
		62	5310	5,310.00216	-0.00000041
		102	5510	5,509.96734	0.00000593
		110	5550	5,549.96789	0.00000579
		134	5670	5,669.97765	0.00000394
		151	5755		1.00000000
		159	5795		1.00000000
55		38	5190	5,189.99017	0.00000189
	3.27V	46	5230	5,229.99263	0.00000141
		54	5270	5,269.97732	0.00000430
		62	5310	5,309.97744	0.00000425
		102	5510	5,510.00825	-0.00000150
		110	5550	5,549.97600	0.00000432
		134	5670	5,669.98373	0.00000287
		151	5755		1.00000000
		159	5795		1.00000000

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Operation Mode	802.11 ac_VHT80	Test Date	2018.03.26
Temperature	:23	Test By	Mike
Humidity	:68 %	-	

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		42	5210	5,210.00731	-0.00000140
		58	5290	5,289.99126	0.00000165
	4.43V	106	5530	5,529.99025	0.00000176
		122	5610	5,609.99991	0.00000002
-10		155	5775		1.00000000
		42	5210	5,209.94995	0.00000961
		58	5290	5,289.99085	0.00000173
	3.27V	106	5530	5,529.95373	0.00000837
		122	5610	5,609.99378	0.00000111
		155	5775		1.00000000
		42	5210	5,210.05479	-0.00001052
		58	5290	5,289.99453	0.00000103
25	3.85V	106	5530	5,530.00864	-0.00000156
		122	5610	5,609.99749	0.00000045
		155	5775		1.00000000
	4.43V	42	5210	5,209.94695	0.00001018
		58	5290	5,290.00222	-0.00000042
		106	5530	5,529.99879	0.00000022
		122	5610	5,609.99528	0.00000084
55		155	5775		1.00000000
	3.27V	42	5210	5,209.99430	0.00000109
		58	5290	5,290.04938	-0.00000933
		106	5530	5,529.94778	0.00000944
		122	5610	5,610.00990	-0.00000176
		155	5775		1.00000000

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14. ANTENNA REQUIREMENT

14.1Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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