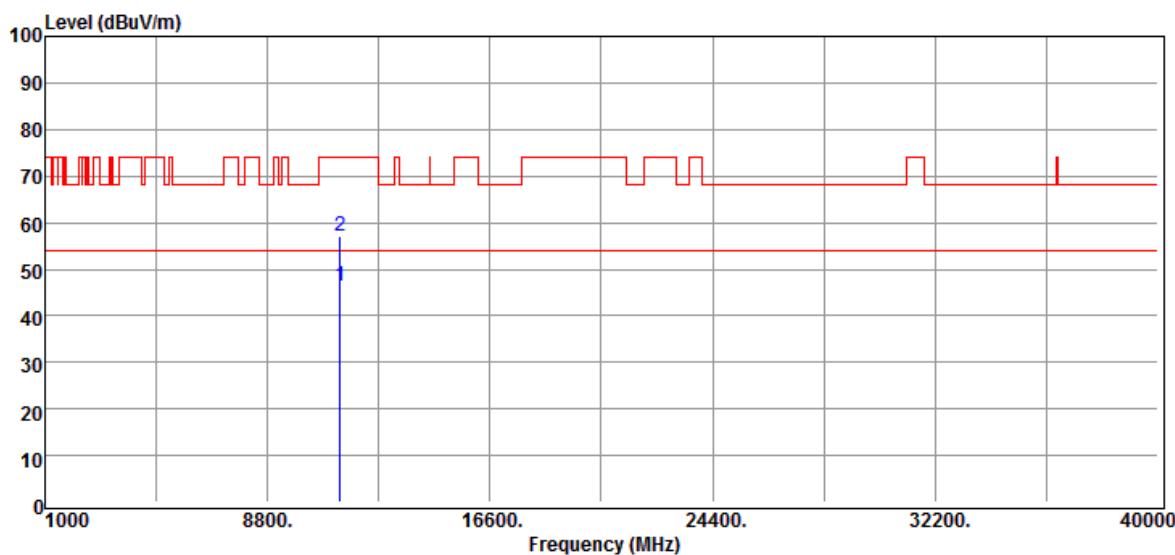


Operation Mode :802.11n40 / Band 3
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Channel :5670 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11340.00	Average	20.03	26.21	46.24	54.00	-7.76
11340.00	Peak	30.78	26.21	56.99	74.00	-17.01

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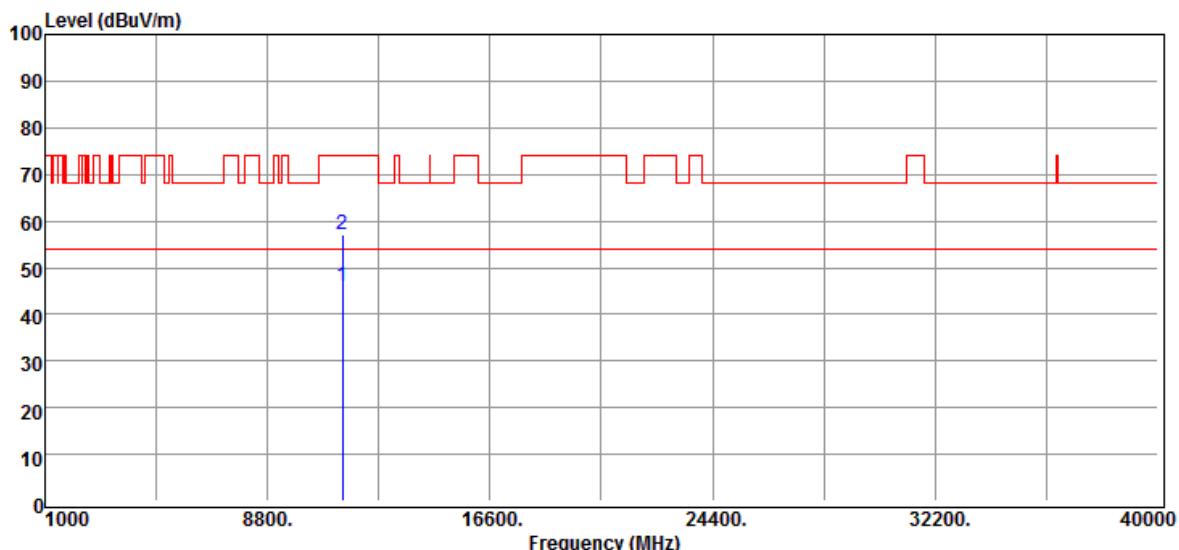
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode	:802.11n40 / Band 3/4	Test Date	:2018-08-08
Test Mode	:TX CH 142	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5710 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	20.02	26.01	46.03	54.00	-7.97
11420.00	Peak	30.92	26.01	56.93	74.00	-17.07

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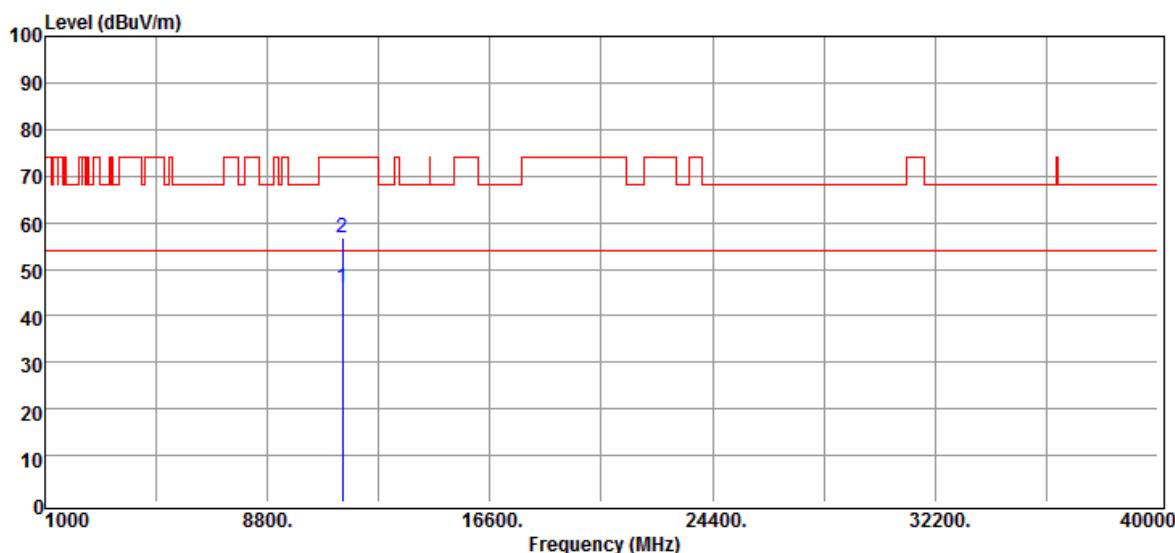
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Operation Mode :802.11n40 / Band 3/4
Test Mode :TX CH 142
EUT Pol :H Plan
Test Channel :5710 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11420.00	Average	19.97	26.01	45.98	54.00	-8.02
11420.00	Peak	30.88	26.01	56.89	74.00	-17.11

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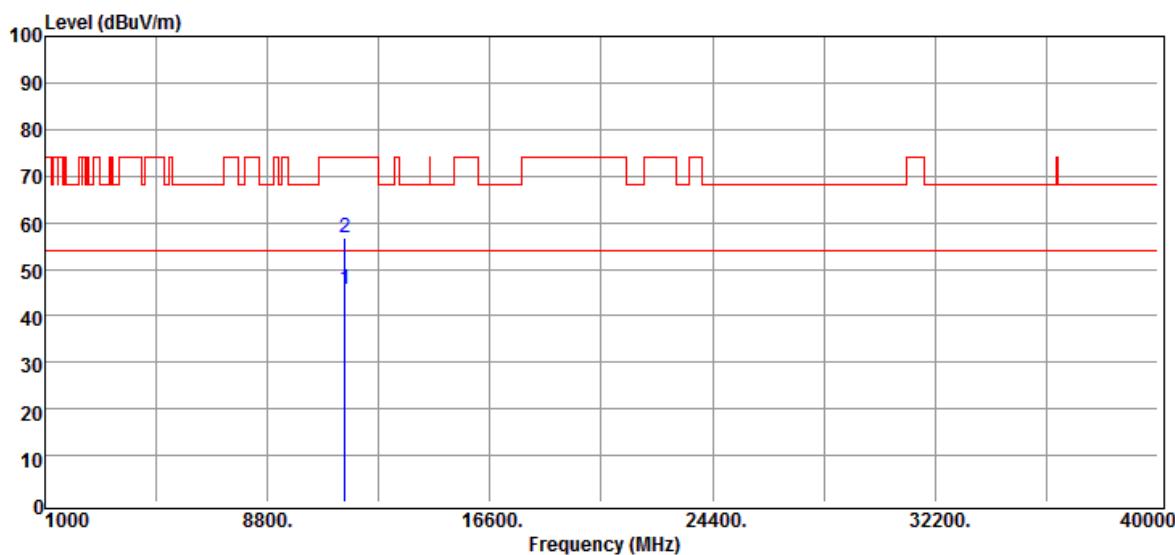
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Operation Mode :802.11n40 / Band 4
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Channel :5755 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	Average	19.91	25.82	45.73	54.00	-8.27
11510.00	Peak	30.87	25.82	56.69	74.00	-17.31

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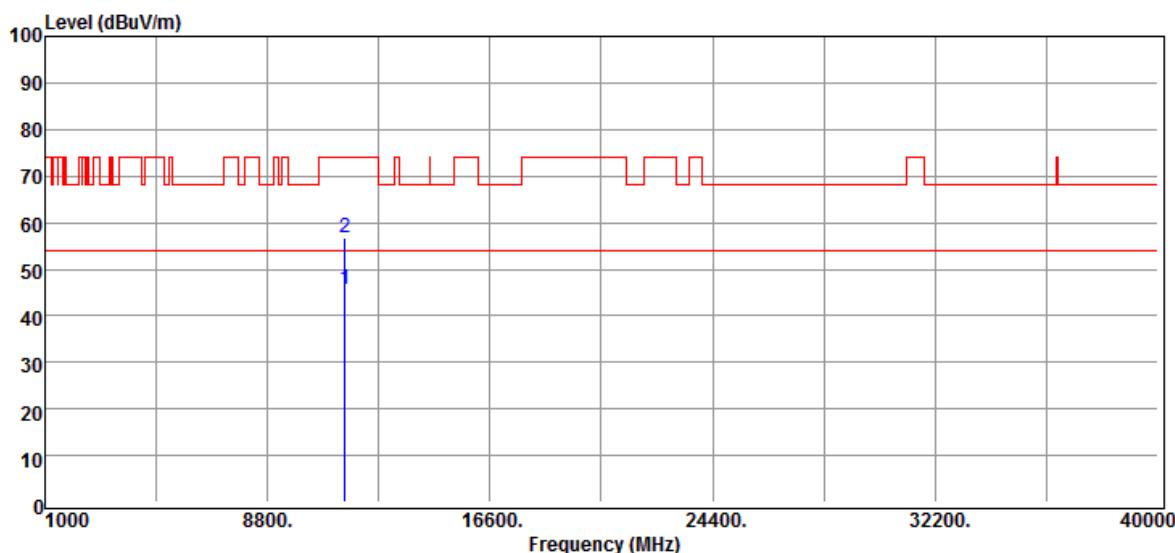
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Operation Mode :802.11n40 / Band 4
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Channel :5755 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11510.00	Average	20.01	25.82	45.83	54.00	-8.17
11510.00	Peak	30.87	25.82	56.69	74.00	-17.31

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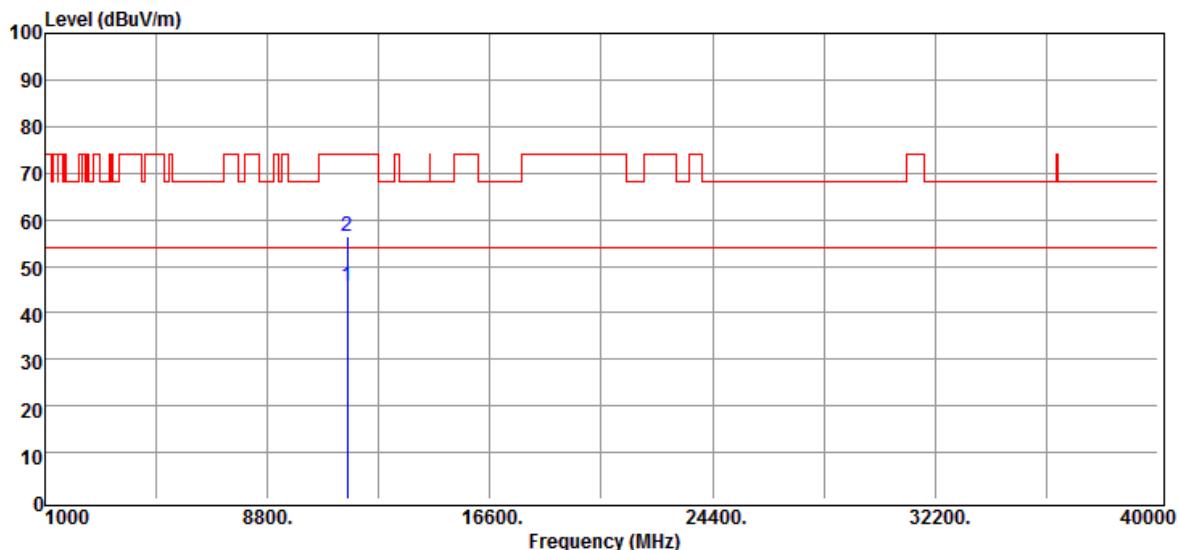
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Operation Mode :802.11n40 / Band 4
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Channel :5795 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
11590.00	Average	19.95	25.89	45.84	54.00	-8.16
11590.00	Peak	30.49	25.89	56.38	74.00	-17.62

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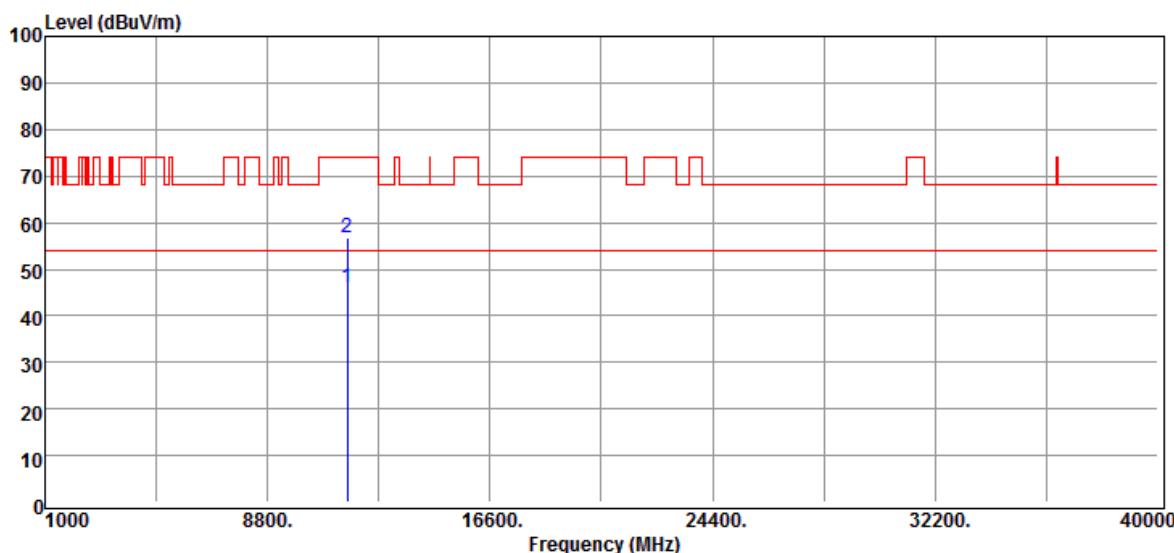
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Operation Mode :802.11n40 / Band 4
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Channel :5795 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	Average	19.98	25.89	45.87	54.00	-8.13
11590.00	Peak	30.80	25.89	56.69	74.00	-17.31

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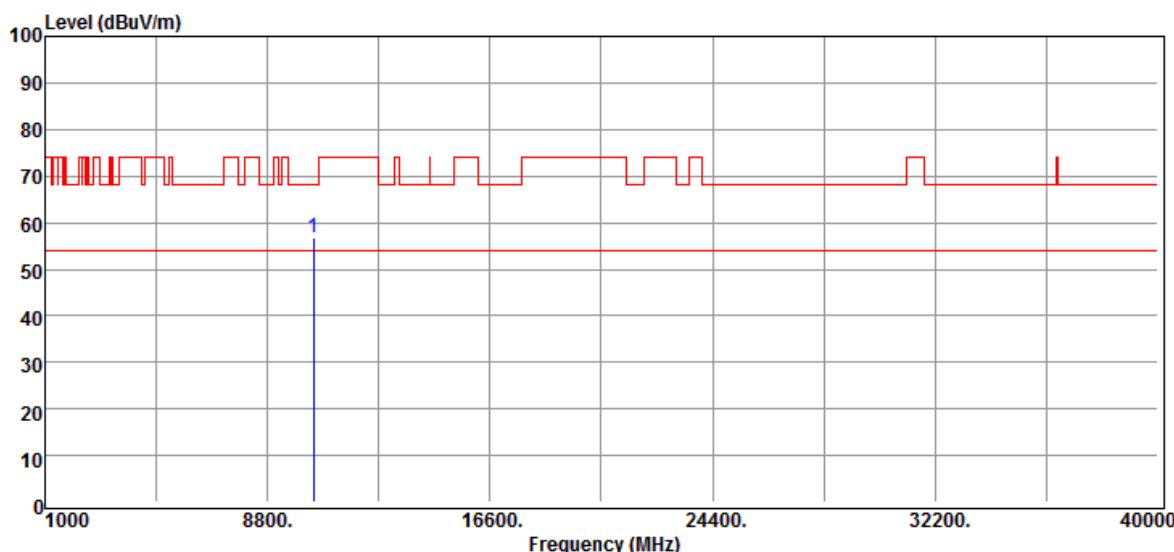
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-08-08
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	29.79	26.87	56.66	68.20	-11.54

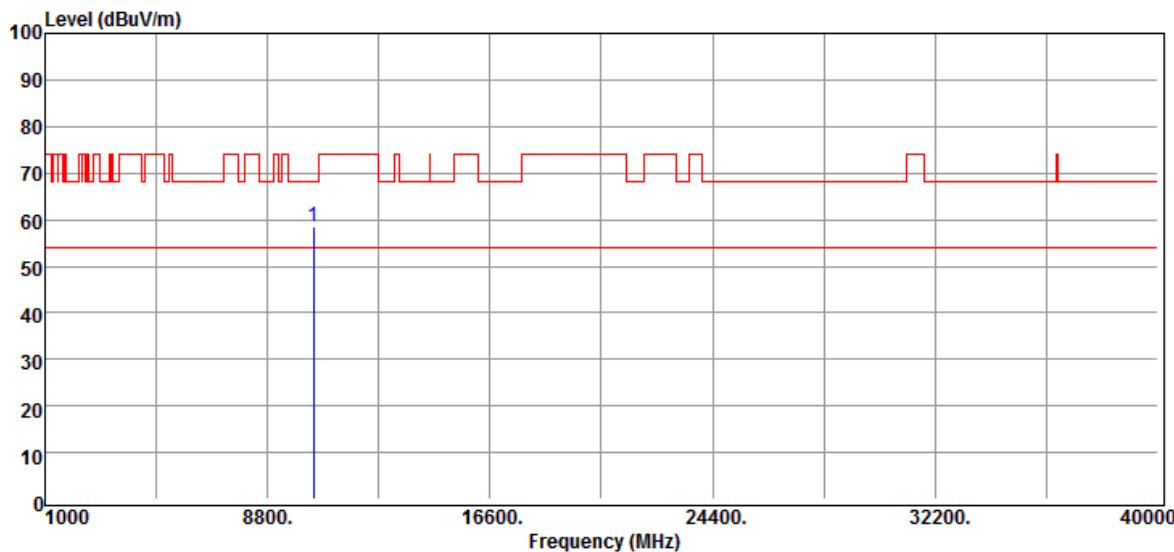
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Operation Mode :802.11ac80 / Band 1
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Channel :5210 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10420.00	Peak	31.74	26.87	58.61	68.20	-9.59

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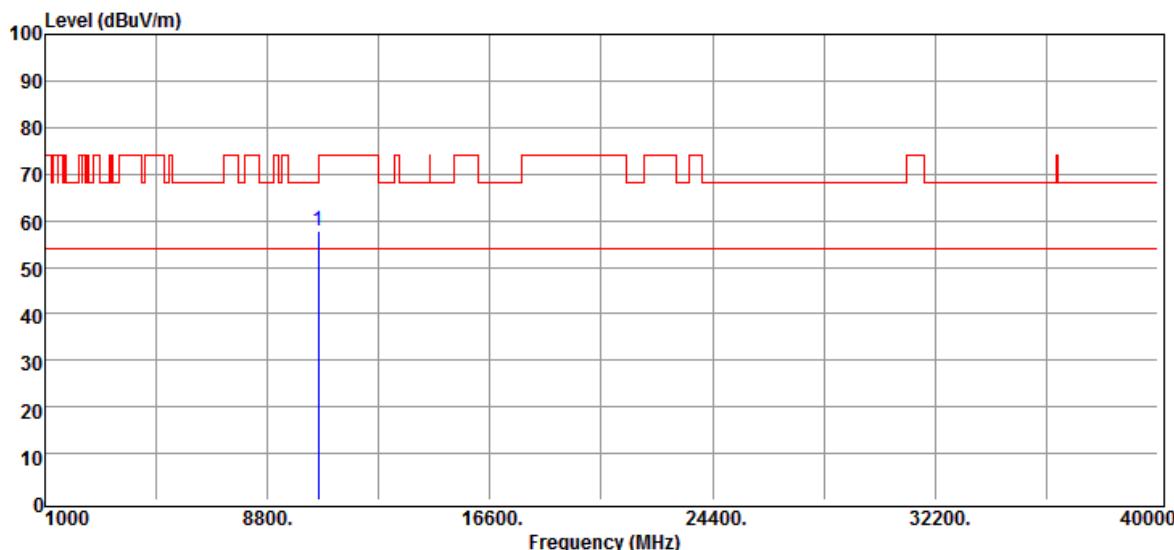
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-08-08
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10580.00	Peak	30.41	27.22	57.63	68.20	-10.57

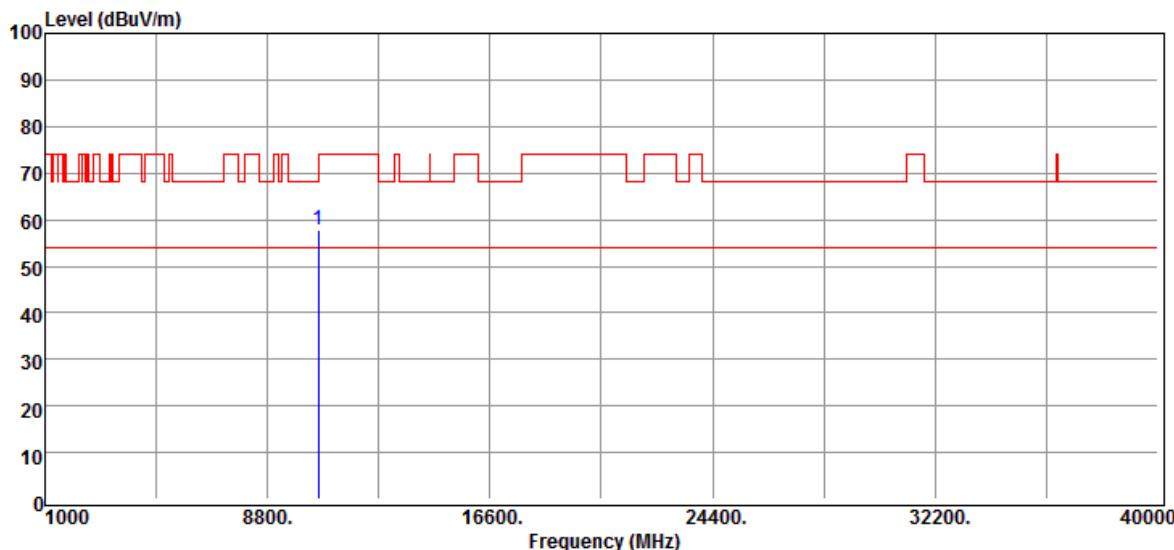
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Operation Mode	:802.11ac80 / Band 2	Test Date	:2018-08-08
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5290 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _u V	Factor dB	Actual FS dB _u V/m	Limit @3m dB _u V/m	Margin dB
10580.00	Peak	30.61	27.22	57.83	68.20	-10.37

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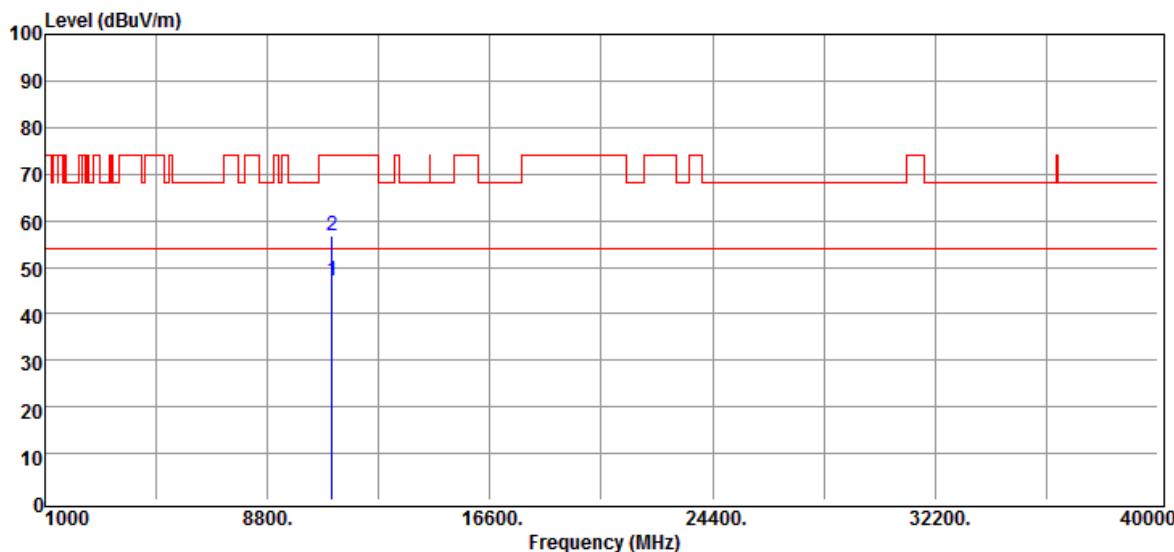
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-08-08
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5530 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	20.20	26.94	47.14	54.00	-6.86
11060.00	Peak	29.80	26.94	56.74	74.00	-17.26

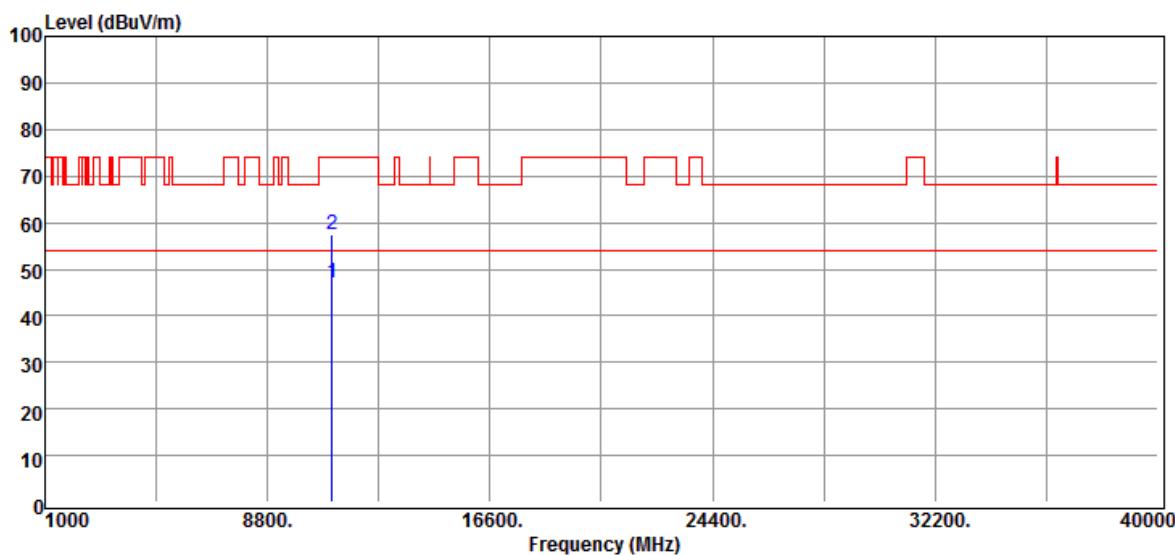
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Operation Mode :802.11ac80 / Band 3
Test Mode :TX CH LOW
EUT Pol :H Plan
Test Channel :5530 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11060.00	Average	20.07	26.94	47.01	54.00	-6.99
11060.00	Peak	30.45	26.94	57.39	74.00	-16.61

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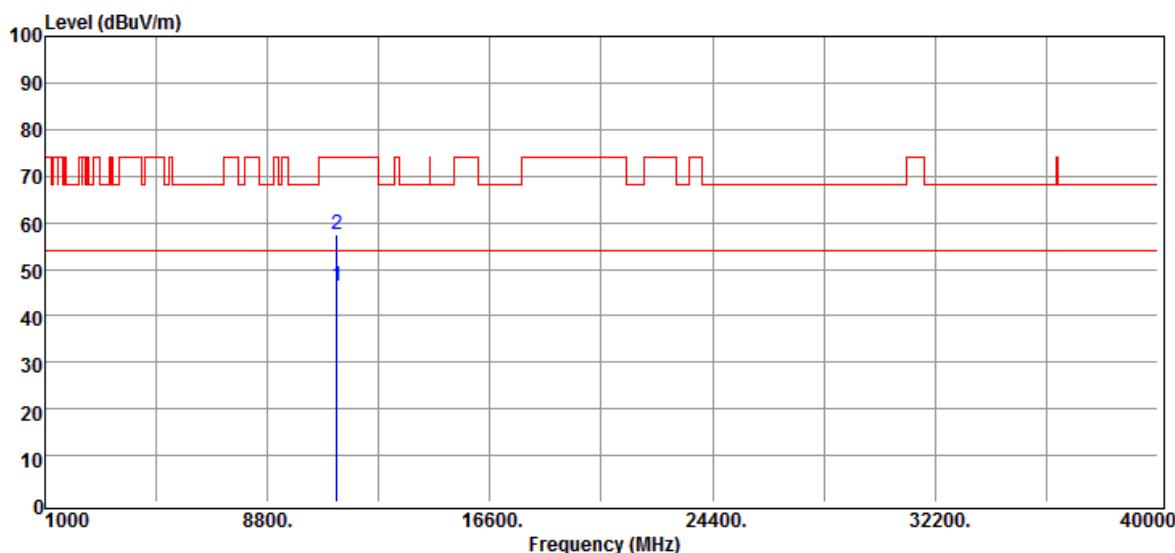
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Operation Mode :802.11ac80 / Band 3
Test Mode :TX CH MID
EUT Pol :H Plan
Test Channel :5610 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	19.99	26.52	46.51	54.00	-7.49
11220.00	Peak	30.80	26.52	57.32	74.00	-16.68

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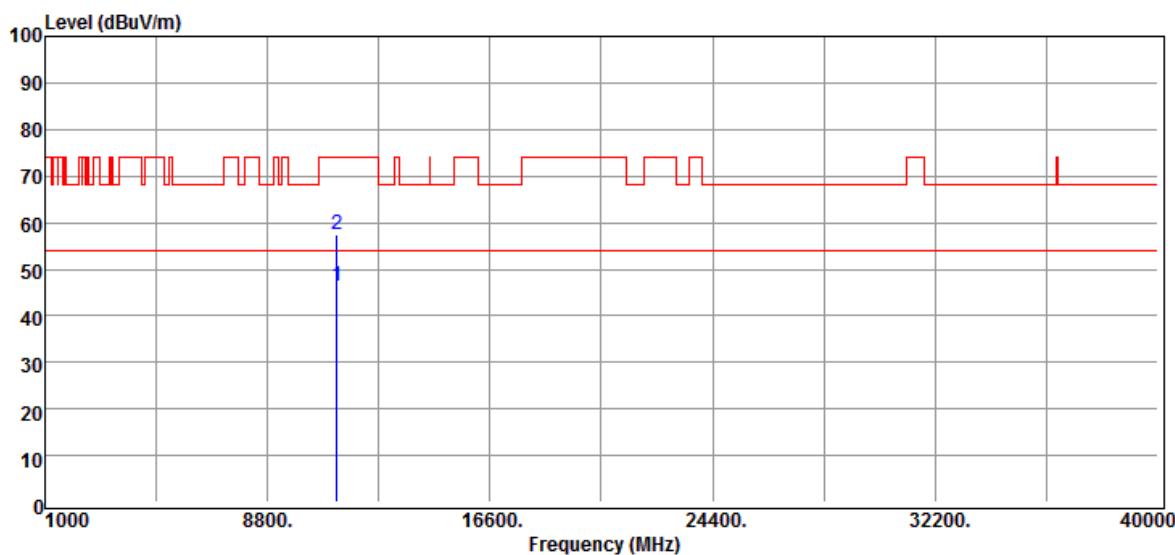
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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-08-08
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5610 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	Average	20.02	26.52	46.54	54.00	-7.46
11220.00	Peak	30.97	26.52	57.49	74.00	-16.51

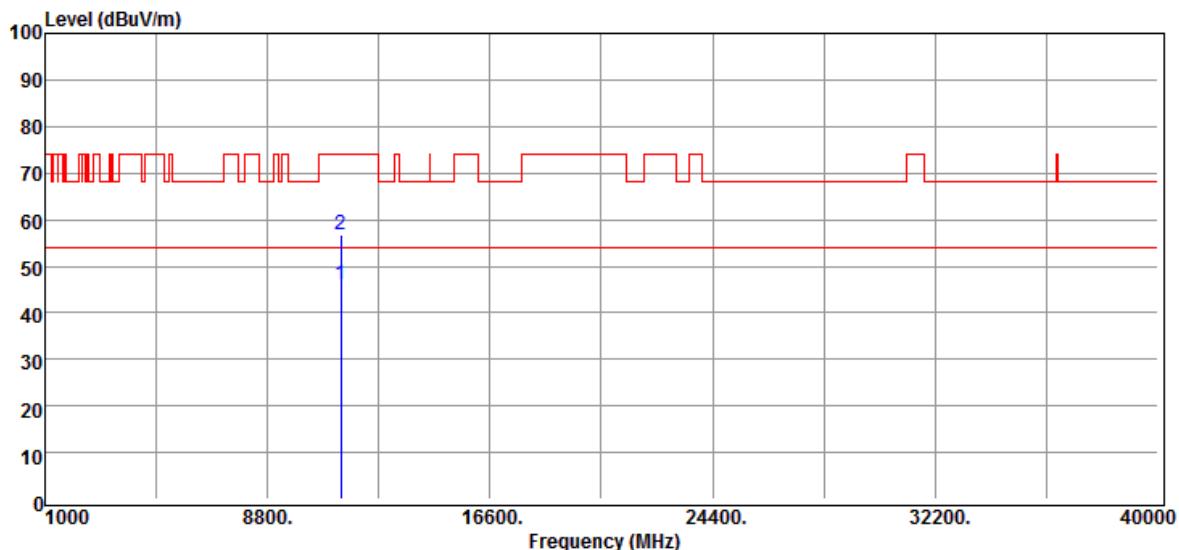
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Operation Mode :802.11ac80 / Band 3
Test Mode :TX CH HIGH
EUT Pol :H Plan
Test Channel :5690 MHz
Test Date :2018-08-08
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	19.92	26.11	46.03	54.00	-7.97
11380.00	Peak	30.51	26.11	56.62	74.00	-17.38

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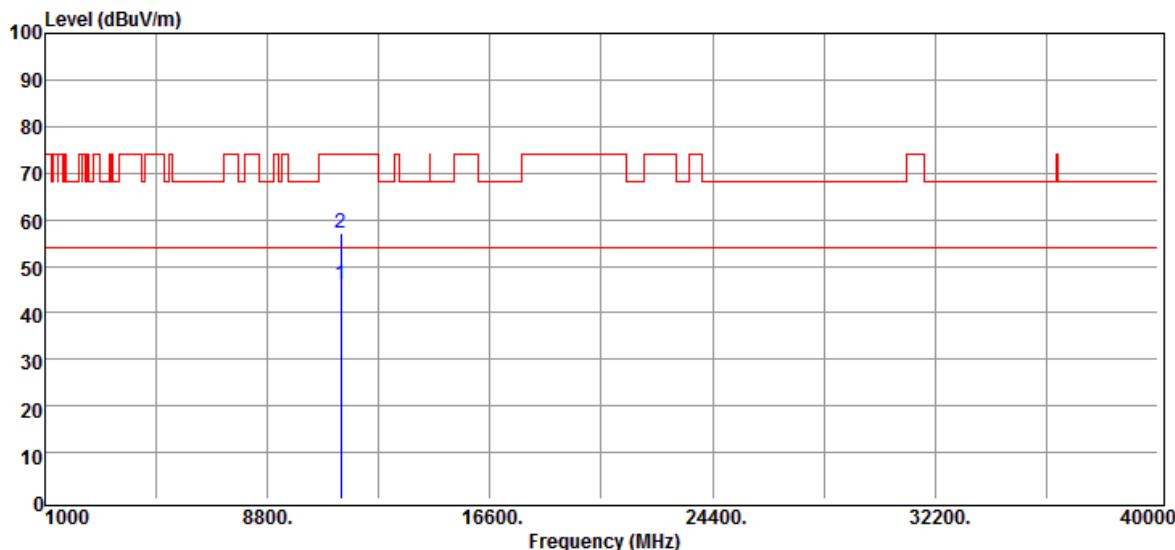
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Operation Mode	:802.11ac80 / Band 3	Test Date	:2018-08-08
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5690 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11380.00	Average	19.90	26.11	46.01	54.00	-7.99
11380.00	Peak	30.90	26.11	57.01	74.00	-16.99

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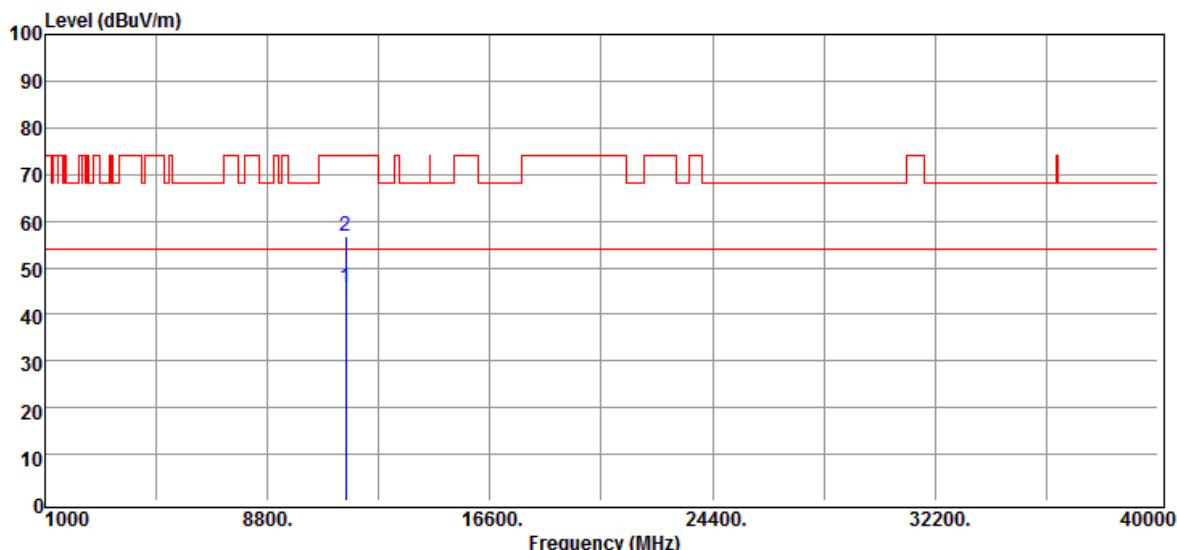
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-08-08
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	19.88	25.85	45.73	54.00	-8.27
11550.00	Peak	30.78	25.85	56.63	74.00	-17.37

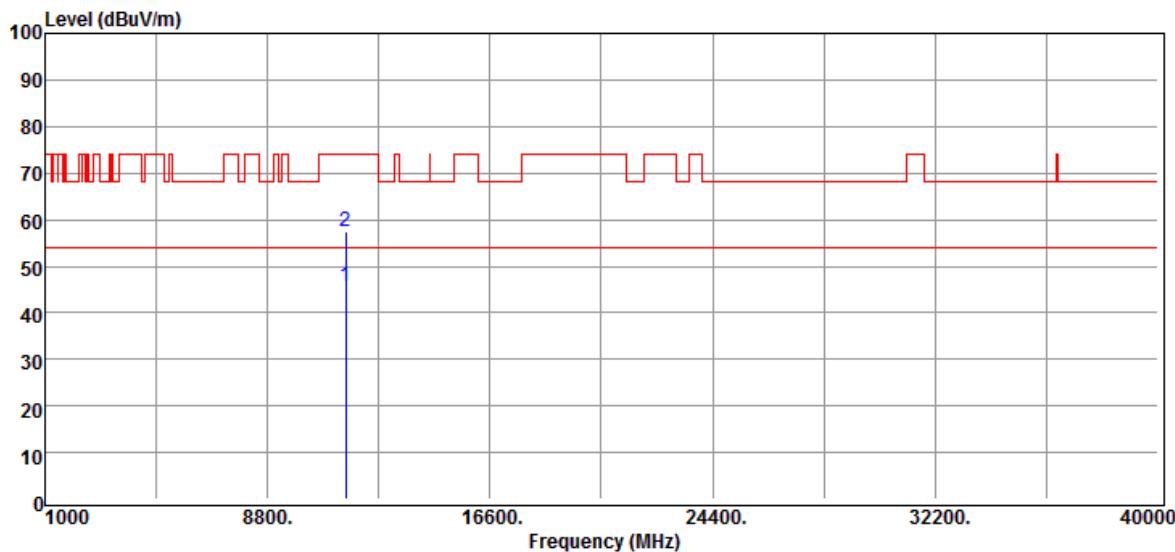
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Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-08-08
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	Average	19.98	25.85	45.83	54.00	-8.17
11550.00	Peak	31.64	25.85	57.49	74.00	-16.51

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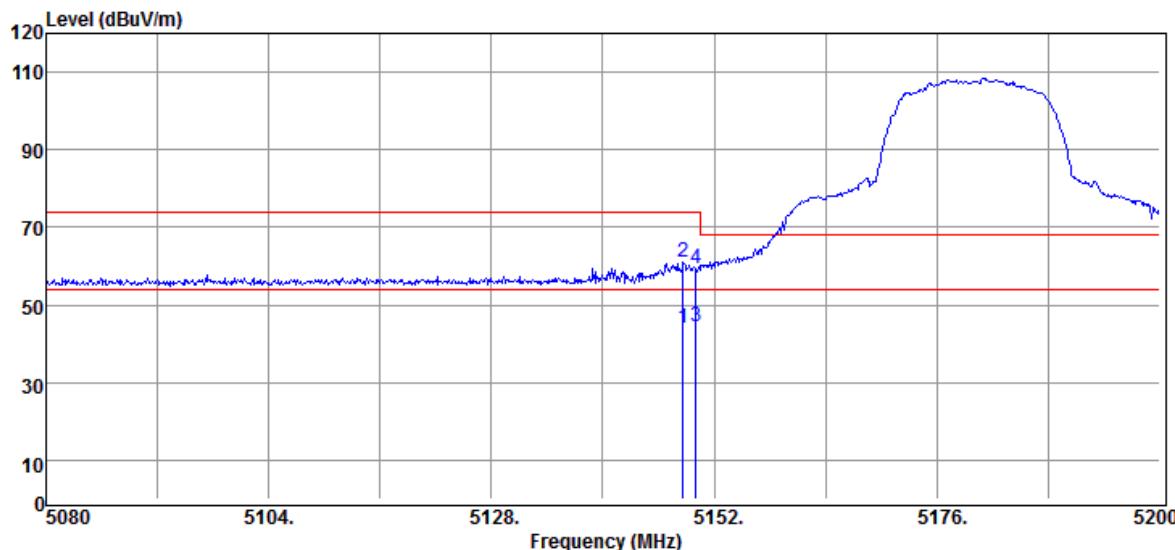
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Band edge falling to restricted band

802.11a mode

Operation Mode	:802.11a / Band 1	Test Date	:2018-08-07
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5148.64	Average	30.59	13.63	44.22	54.00	-9.78
5148.64	Peak	47.49	13.63	61.12	74.00	-12.88
5150.00	Average	30.83	13.65	44.48	54.00	-9.52
5150.00	Peak	45.56	13.65	59.21	74.00	-14.79

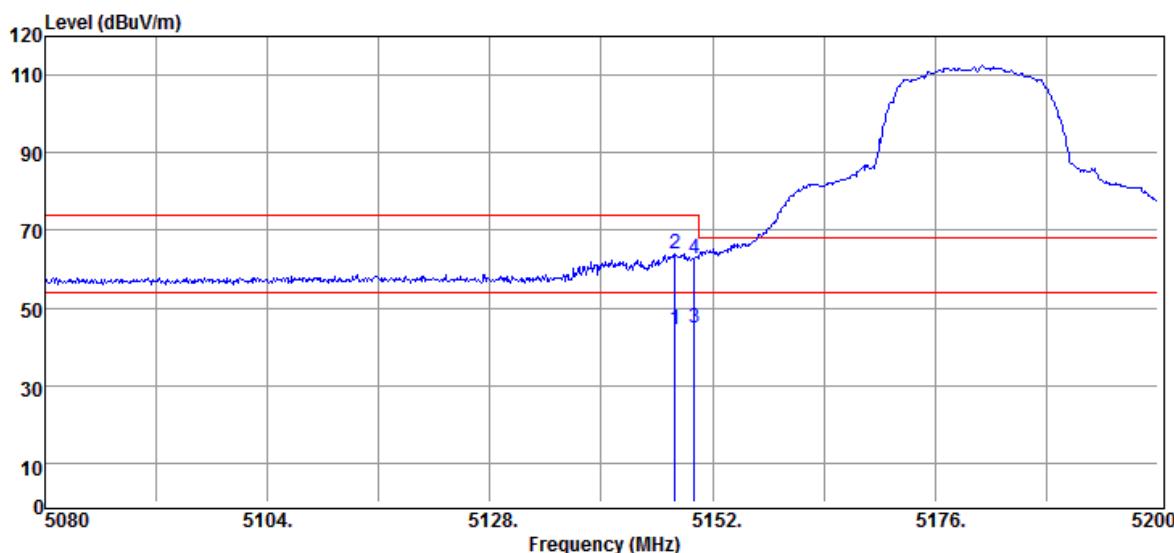
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Operation Mode :802.11a / Band 1
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5180 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5147.92	Average	30.76	13.63	44.39	54.00	-9.61
5147.92	Peak	50.47	13.63	64.10	74.00	-9.90
5150.00	Average	31.30	13.65	44.95	54.00	-9.05
5150.00	Peak	49.03	13.65	62.68	74.00	-11.32

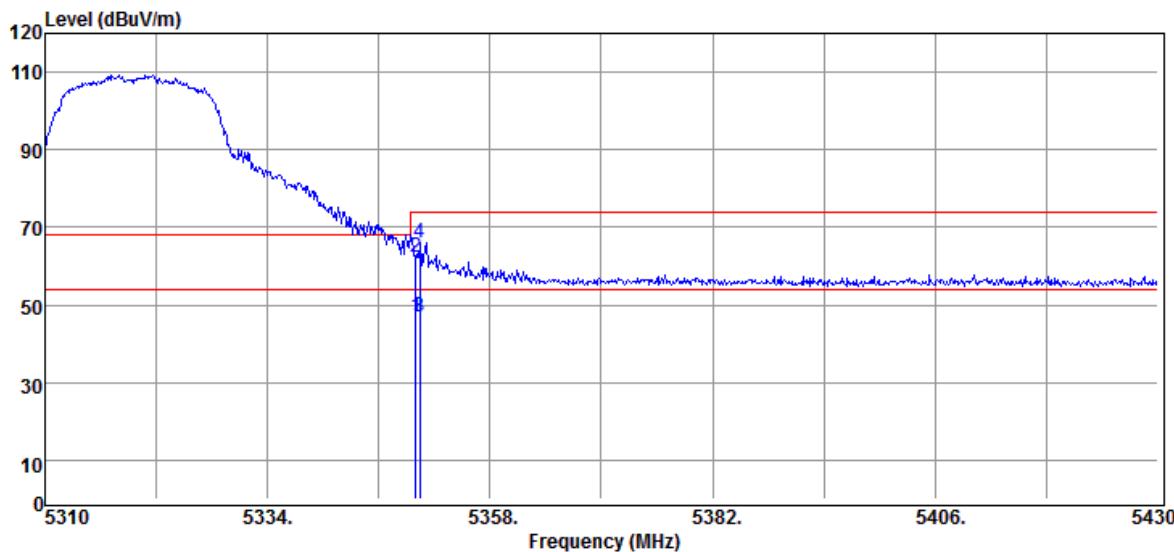
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Operation Mode :802.11a / Band 2
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5320 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	32.59	14.16	46.75	54.00	-7.25
5350.00	Peak	47.93	14.16	62.09	74.00	-11.91
5350.44	Average	32.63	14.17	46.80	54.00	-7.20
5350.44	Peak	51.90	14.17	66.07	74.00	-7.93

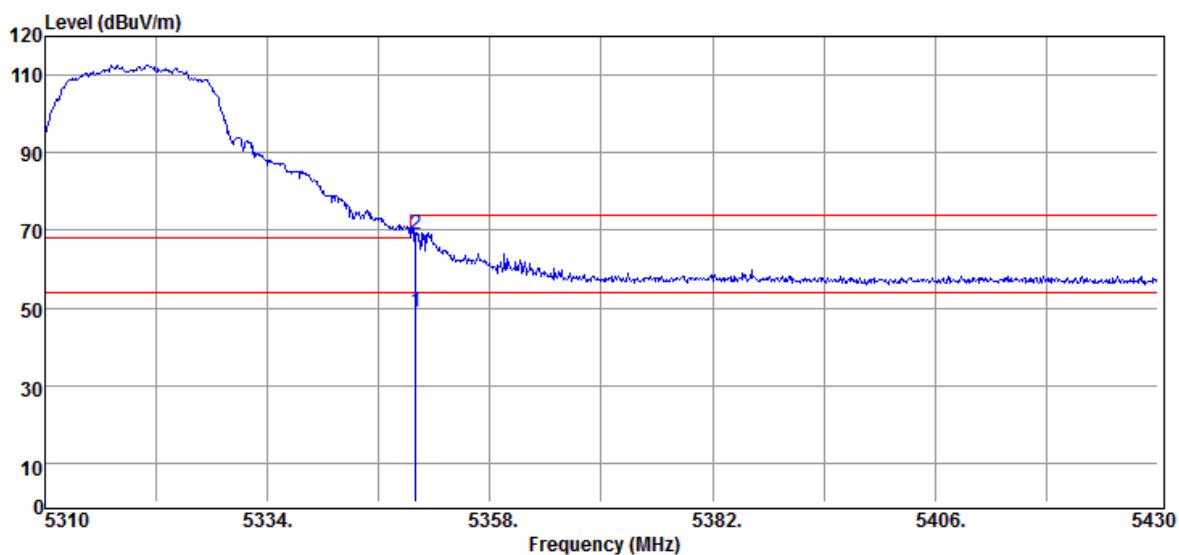
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Operation Mode :802.11a / Band 2
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :5320 MHz
Test Date :2018-08-07
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	34.66	14.16	48.82	54.00	-5.18
5350.00	Peak	54.80	14.16	68.96	74.00	-5.04

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台灣檢驗科技股份有限公司

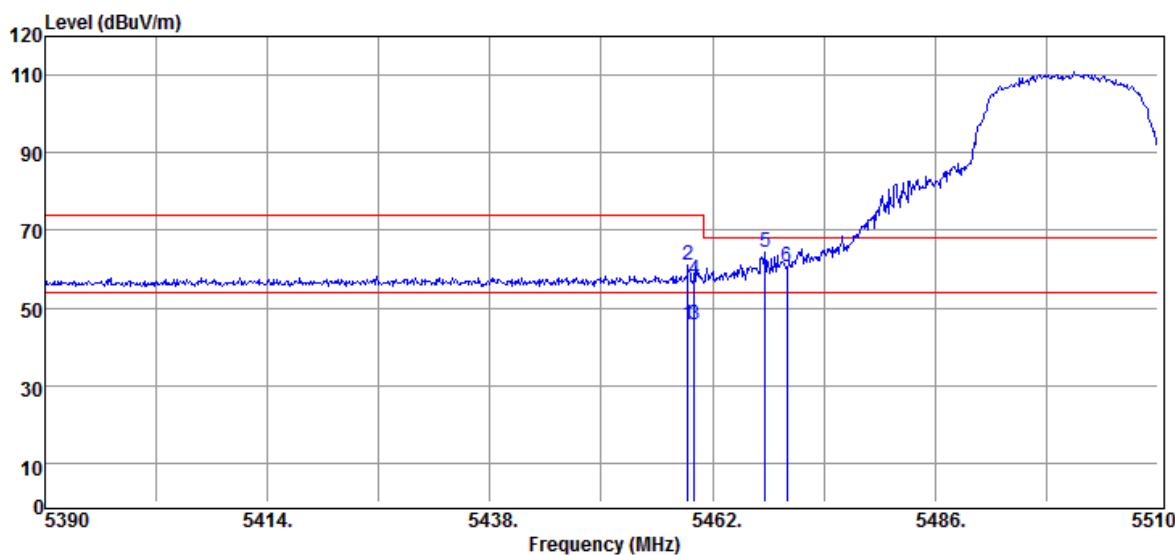
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Operation Mode :802.11a / Band 3
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5500 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.36	Average	31.22	14.31	45.53	54.00	-8.47
5459.36	Peak	46.57	14.31	60.88	74.00	-13.12
5460.00	Average	31.17	14.31	45.48	54.00	-8.52
5460.00	Peak	43.15	14.31	57.46	74.00	-16.54
5467.64	Peak	50.07	14.32	64.39	68.20	-3.81
5470.00	Peak	46.33	14.31	60.64	68.20	-7.56

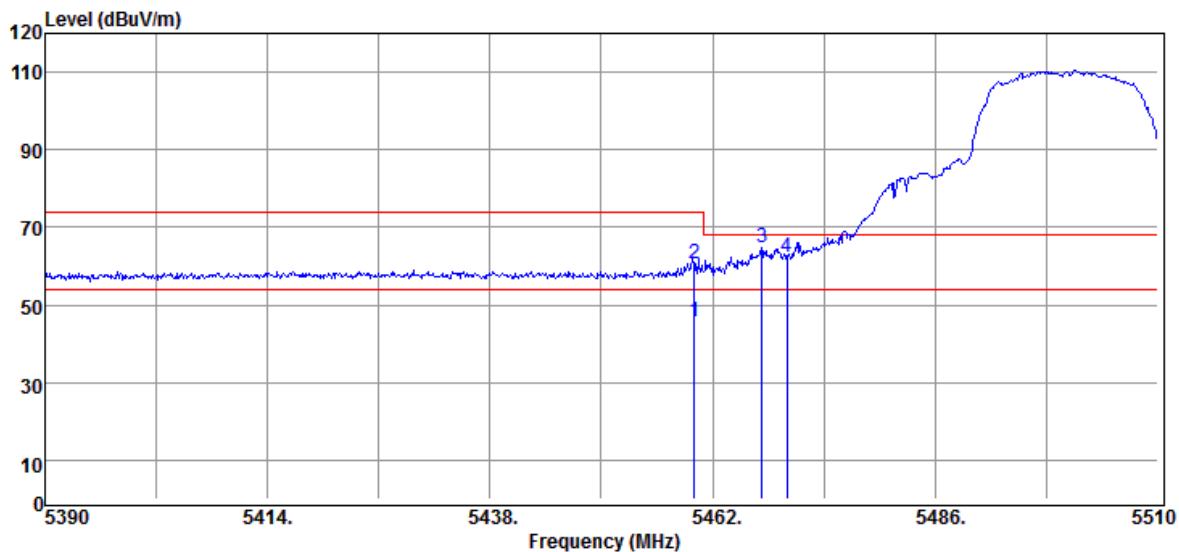
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Operation Mode	:802.11a / Band 3	Test Date	:2018-08-07
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5500 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	31.43	14.31	45.74	54.00	-8.26
5460.00	Peak	46.19	14.31	60.50	74.00	-13.50
5467.28	Peak	50.53	14.32	64.85	68.20	-3.35
5470.04	Peak	47.88	14.31	62.19	68.20	-6.01

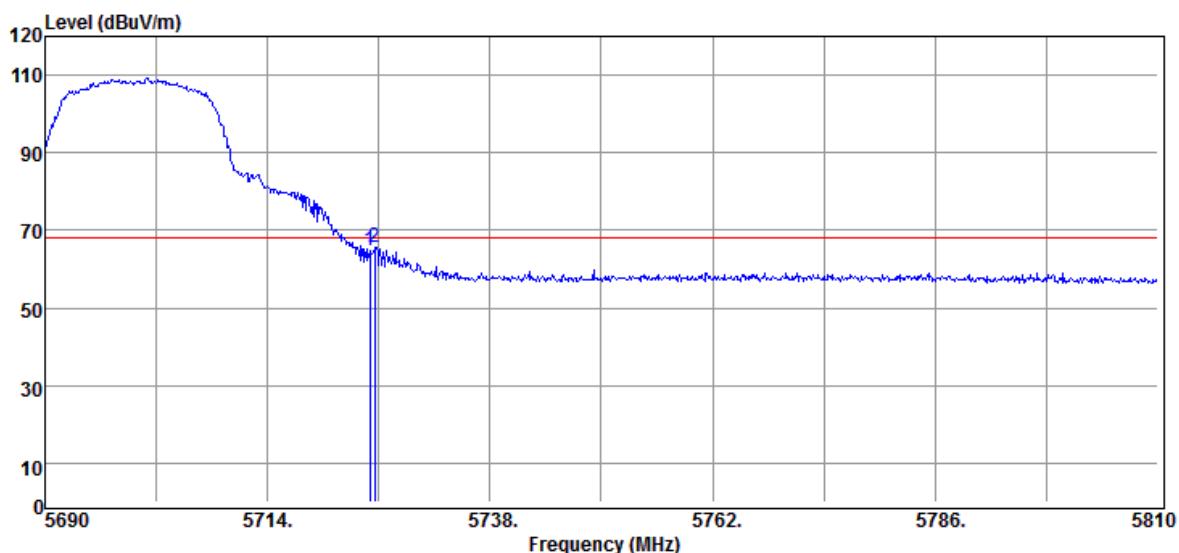
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Operation Mode :802.11a / Band 3
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :5700 MHz
Test Date :2018-08-07
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	50.30	14.50	64.80	68.20	-3.40
5725.52	Peak	51.03	14.50	65.53	68.20	-2.67

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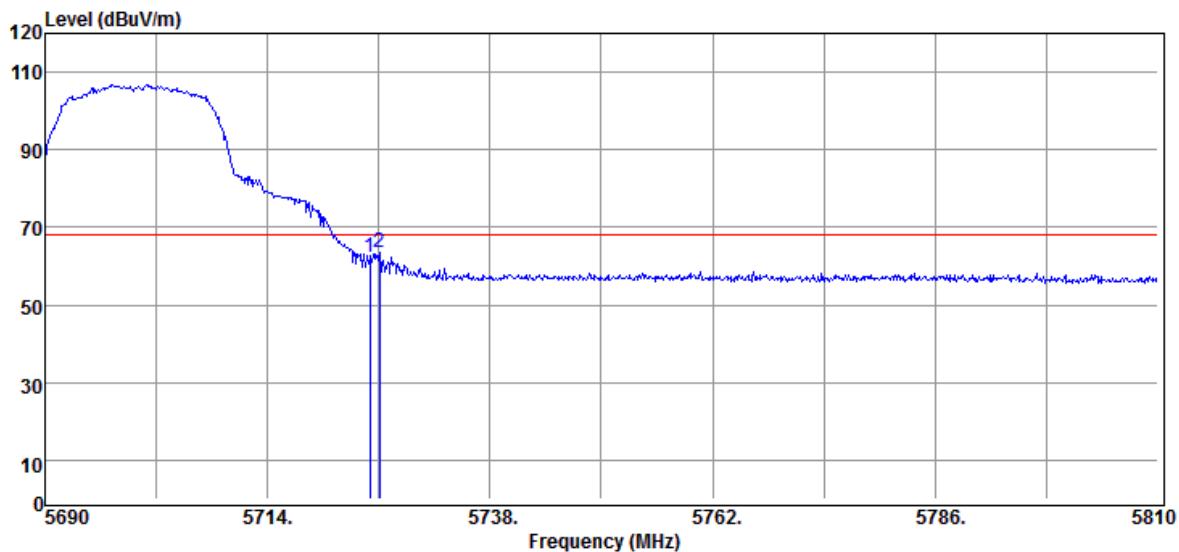
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Operation Mode :802.11a / Band 3
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :5700 MHz
Test Date :2018-08-07
Temp./Humi. :25/60
Antenna Pol. :VERTICAL
Engineer :Enzo



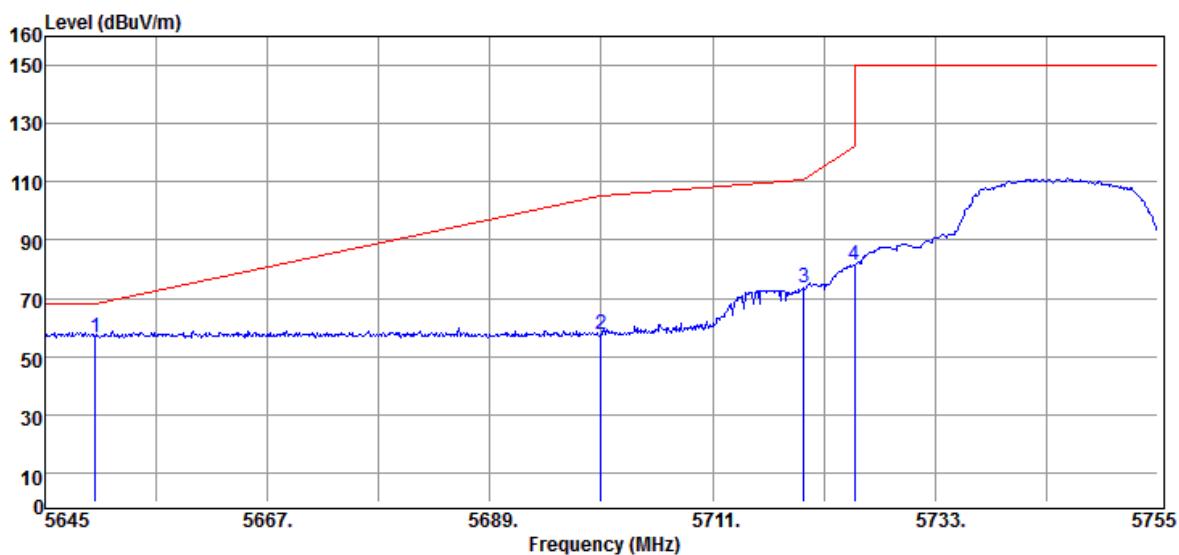
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	47.95	14.50	62.45	68.20	-5.75
5726.12	Peak	49.16	14.50	63.66	68.20	-4.54

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Operation Mode :802.11a / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5745 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	42.16	14.42	56.58	68.20	-11.62
5700.00	Peak	43.11	14.47	57.58	105.20	-47.62
5720.00	Peak	59.12	14.49	73.61	110.80	-37.19
5725.00	Peak	66.77	14.50	81.27	122.20	-40.93

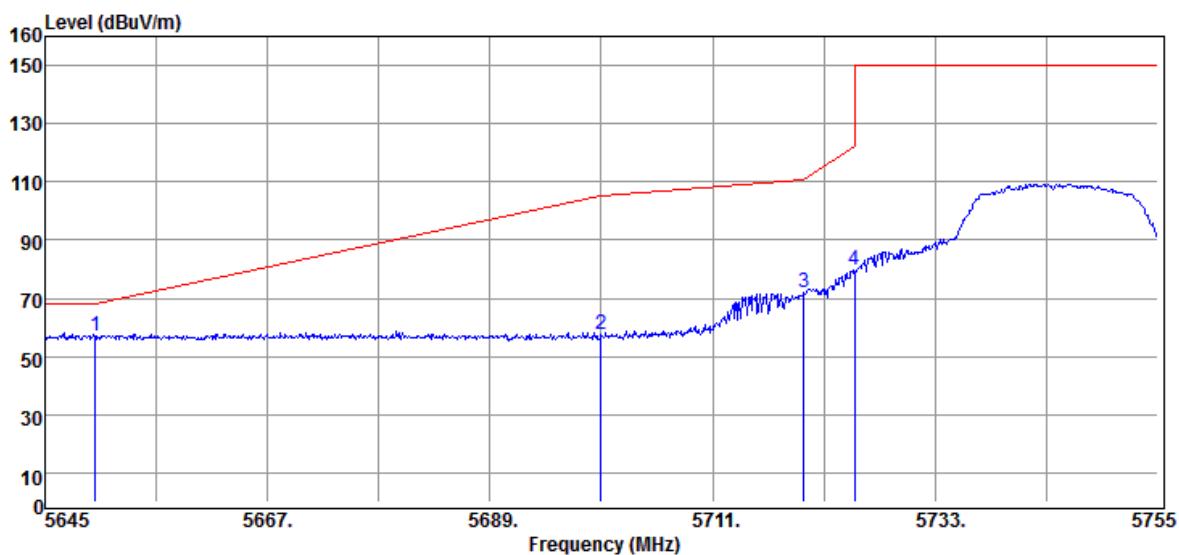
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Operation Mode :802.11a / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5745 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	42.61	14.42	57.03	68.20	-11.17
5700.00	Peak	42.87	14.47	57.34	105.20	-47.86
5720.00	Peak	57.33	14.49	71.82	110.80	-38.98
5725.00	Peak	65.20	14.50	79.70	122.20	-42.50

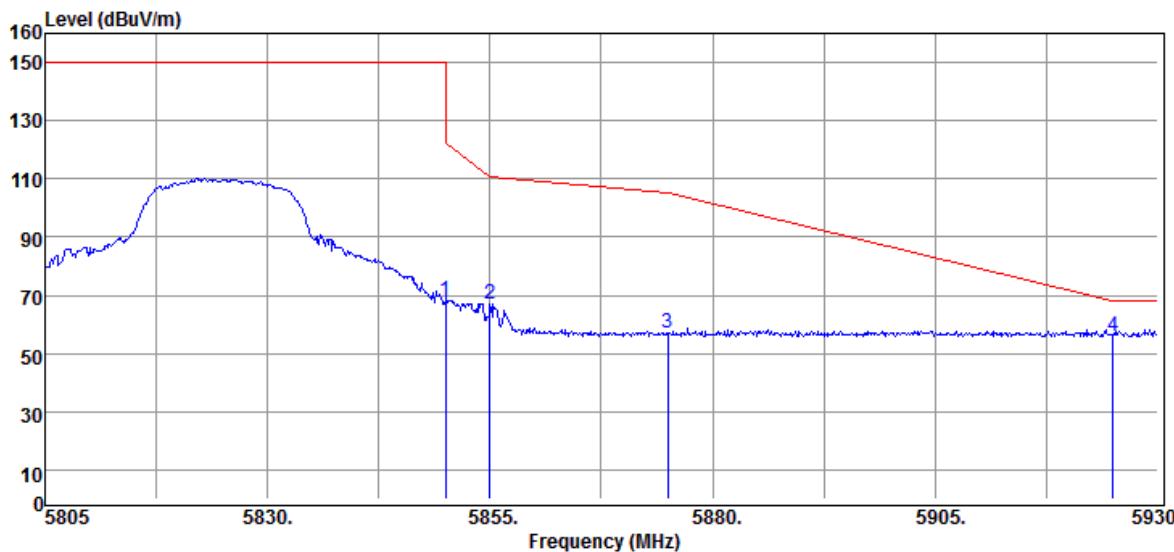
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Operation Mode :802.11a / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5825 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	53.34	14.72	68.06	122.20	-54.14
5855.00	Peak	52.14	14.73	66.87	110.80	-43.93
5875.00	Peak	42.16	14.78	56.94	105.20	-48.26
5925.00	Peak	41.27	14.91	56.18	68.20	-12.02

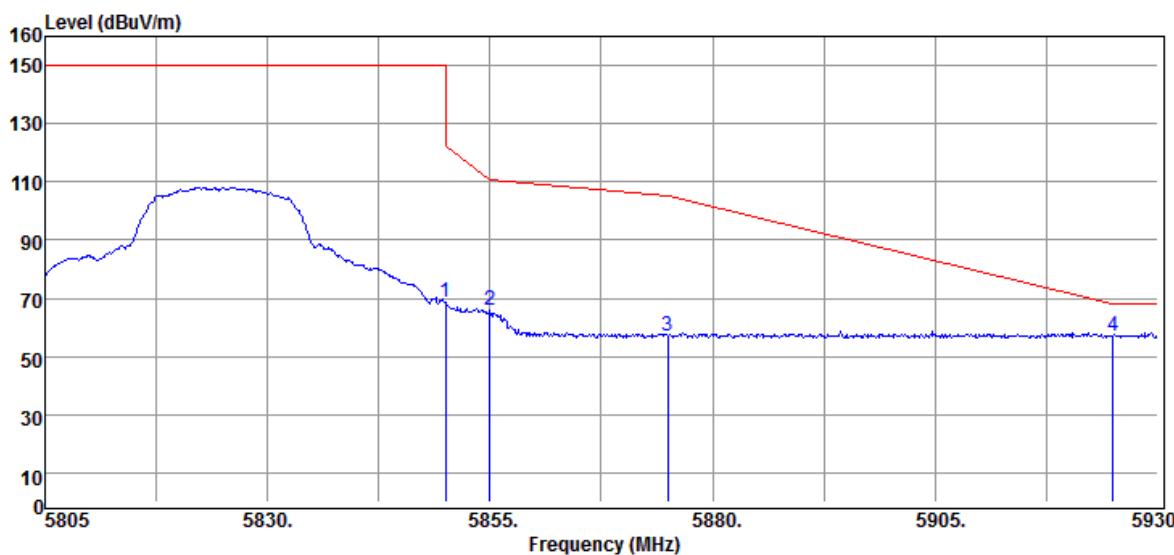
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Operation Mode :802.11a / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5825 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	53.95	14.72	68.67	122.20	-53.53
5855.00	Peak	51.13	14.73	65.86	110.80	-44.94
5875.00	Peak	42.20	14.78	56.98	105.20	-48.22
5925.00	Peak	42.10	14.91	57.01	68.20	-11.19

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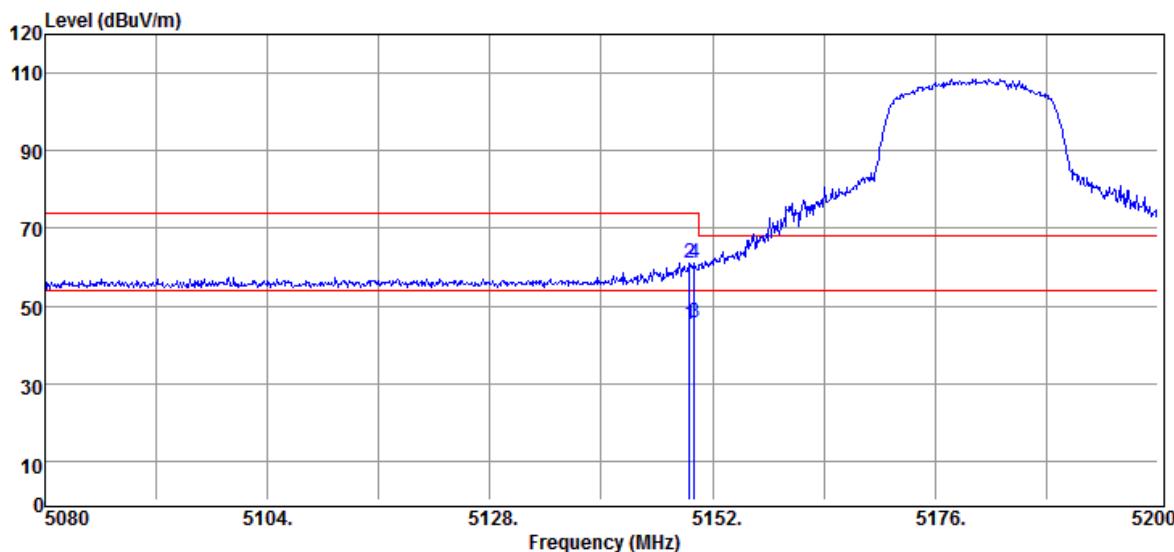
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802.11n20 HT mode

Operation Mode	:802.11n20 / Band 1	Test Date	:2018-08-07
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.48	Average	31.74	13.64	45.38	54.00	-8.62
5149.48	Peak	47.33	13.64	60.97	74.00	-13.03
5150.00	Average	31.89	13.65	45.54	54.00	-8.46
5150.00	Peak	47.26	13.65	60.91	74.00	-13.09

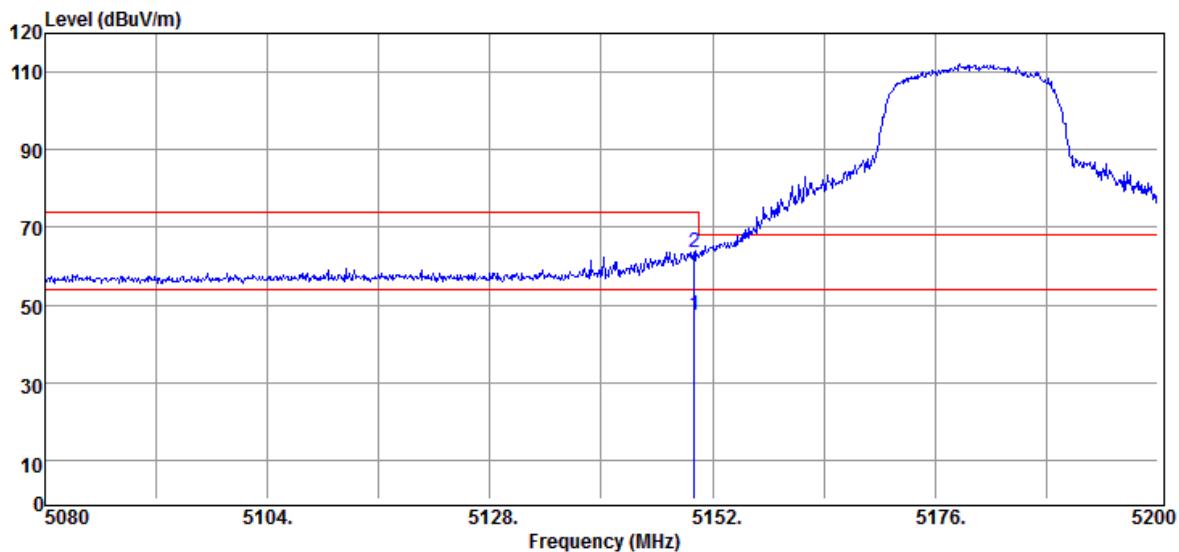
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Operation Mode	:802.11n20 / Band 1	Test Date	:2018-08-07
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5180 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB _{uV}	Factor dB	Actual FS dB _{uV/m}	Limit @3m dB _{uV/m}	Margin dB
5150.00	Average	33.63	13.65	47.28	54.00	-6.72
5150.00	Peak	49.87	13.65	63.52	74.00	-10.48

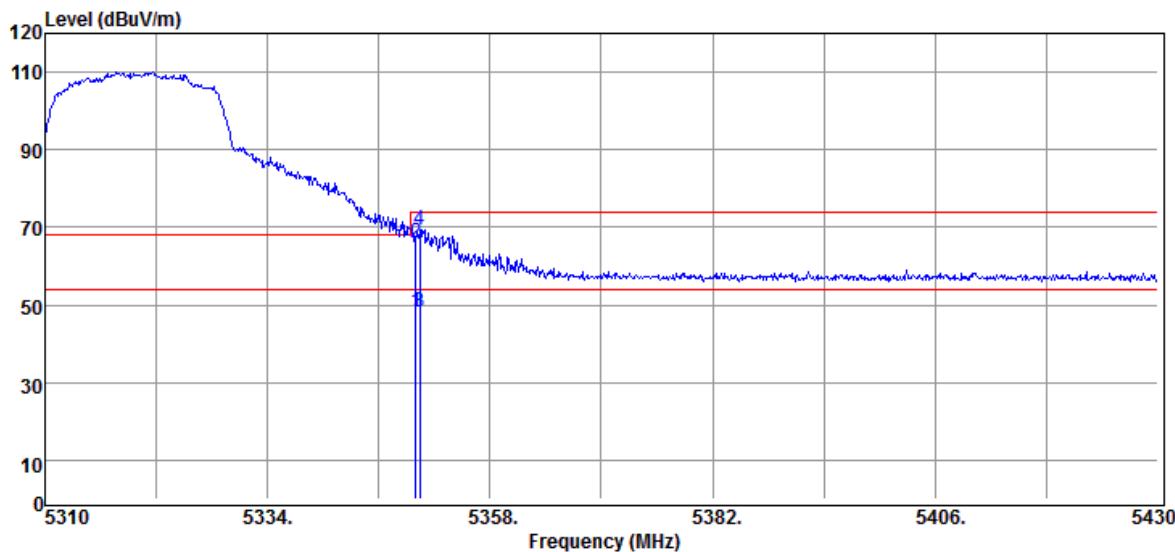
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Operation Mode :802.11n20 / Band 2
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5320 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	33.89	14.16	48.05	54.00	-5.95
5350.00	Peak	51.96	14.16	66.12	74.00	-7.88
5350.44	Average	33.80	14.17	47.97	54.00	-6.03
5350.44	Peak	55.24	14.17	69.41	74.00	-4.59

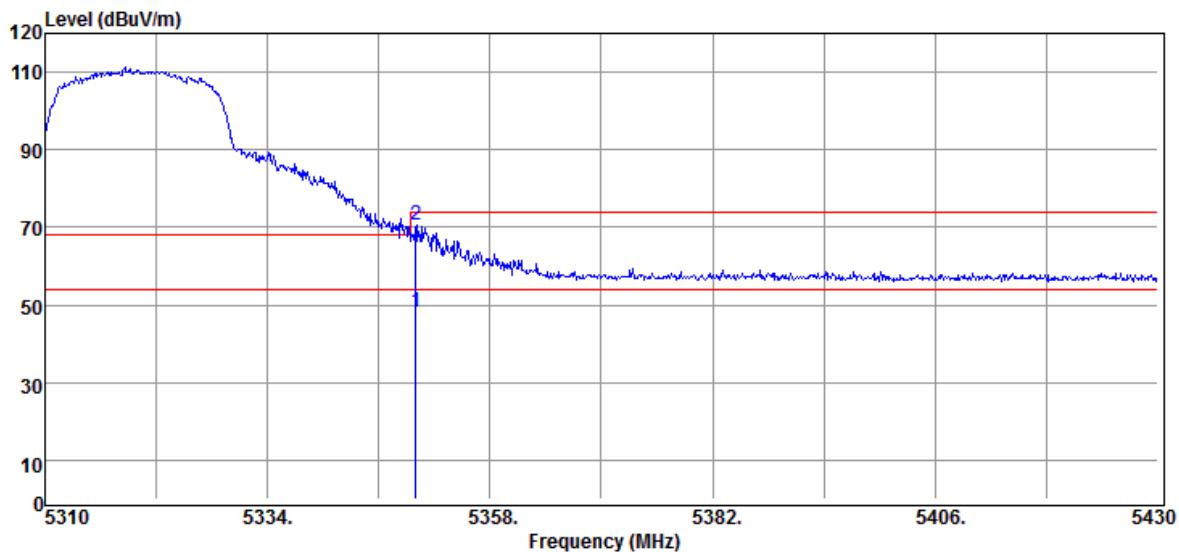
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Operation Mode :802.11n20 / Band 2
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5320 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	34.03	14.16	48.19	54.00	-5.81
5350.00	Peak	56.49	14.16	70.65	74.00	-3.35

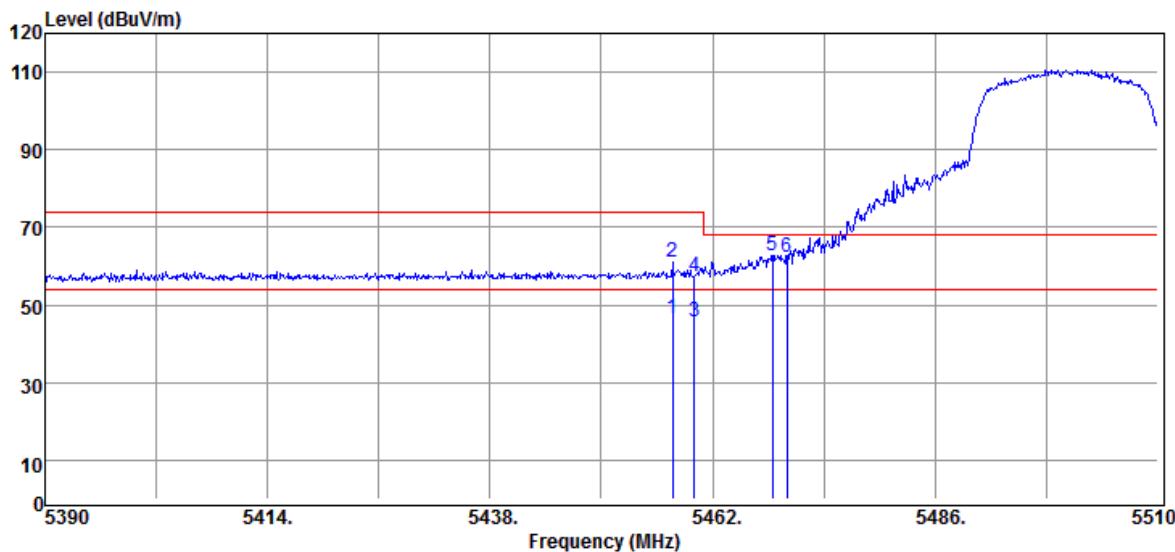
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Operation Mode :802.11n20 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5500 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5457.68	Average	32.14	14.31	46.45	54.00	-7.55
5457.68	Peak	46.71	14.31	61.02	74.00	-12.98
5460.00	Average	31.52	14.31	45.83	54.00	-8.17
5460.00	Peak	43.09	14.31	57.40	74.00	-16.60
5468.48	Peak	48.47	14.32	62.79	68.20	-5.41
5470.00	Peak	48.15	14.31	62.46	68.20	-5.74

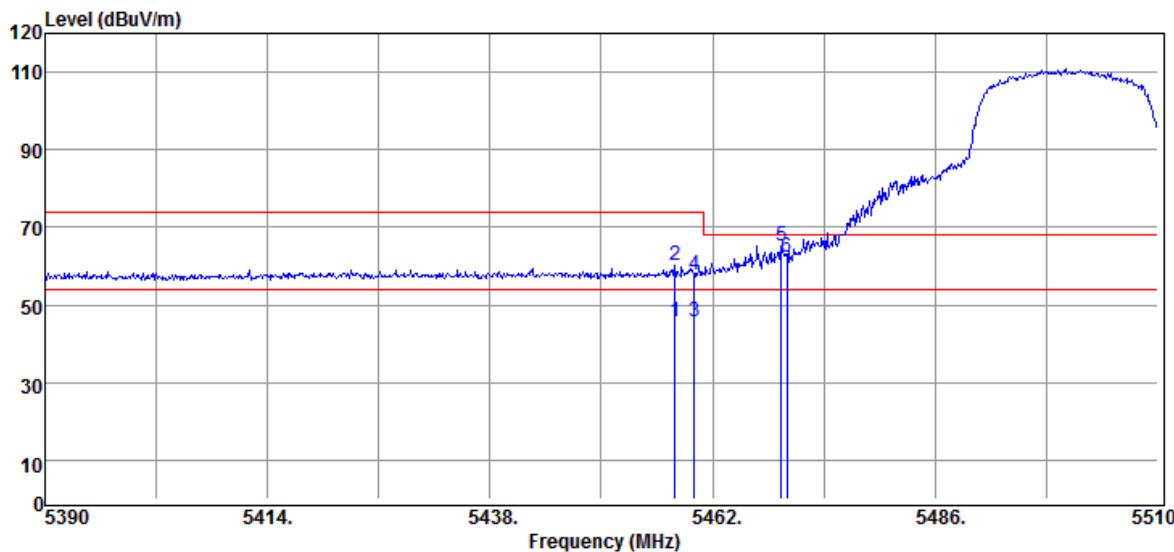
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Operation Mode :802.11n20 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5500 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5457.92	Average	31.36	14.31	45.67	54.00	-8.33
5457.92	Peak	45.83	14.31	60.14	74.00	-13.86
5460.00	Average	31.46	14.31	45.77	54.00	-8.23
5460.00	Peak	43.60	14.31	57.91	74.00	-16.09
5469.44	Peak	50.80	14.31	65.11	68.20	-3.09
5470.00	Peak	48.06	14.31	62.37	68.20	-5.83

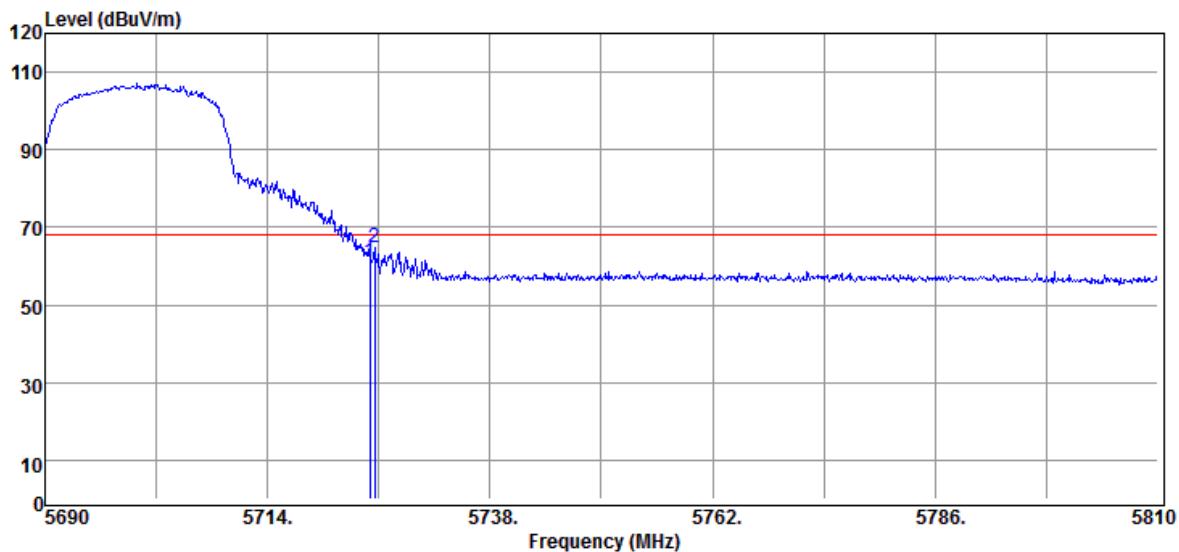
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Operation Mode	:802.11n20 / Band 3	Test Date	:2018-08-07
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5700 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	46.51	14.50	61.01	68.20	-7.19
5725.52	Peak	50.48	14.50	64.98	68.20	-3.22

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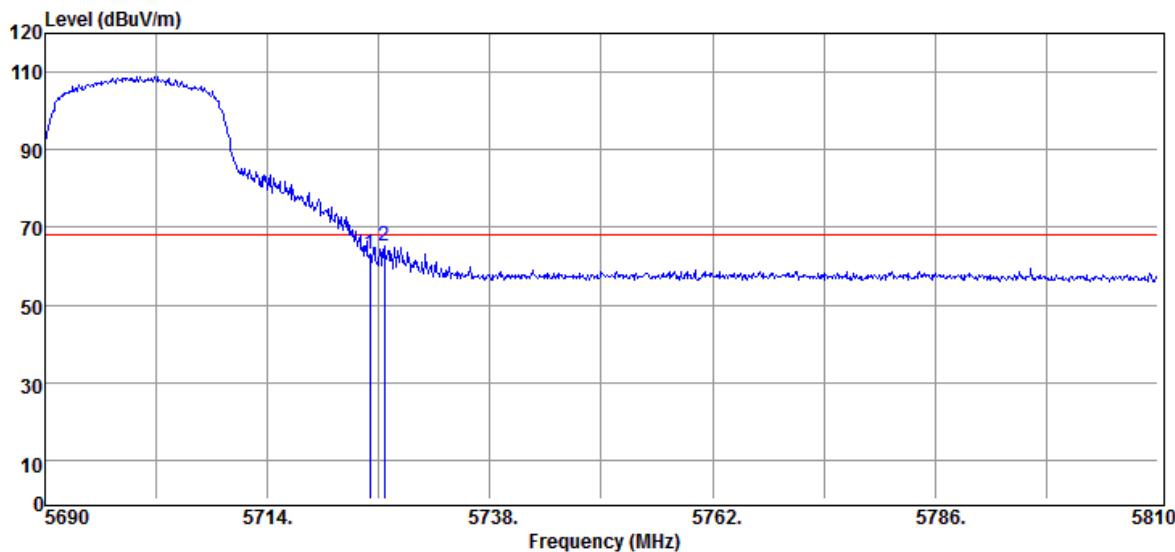
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Operation Mode :802.11n20 / Band 3
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :5700 MHz
Test Date :2018-08-07
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	48.55	14.50	63.05	68.20	-5.15
5726.60	Peak	50.83	14.50	65.33	68.20	-2.87

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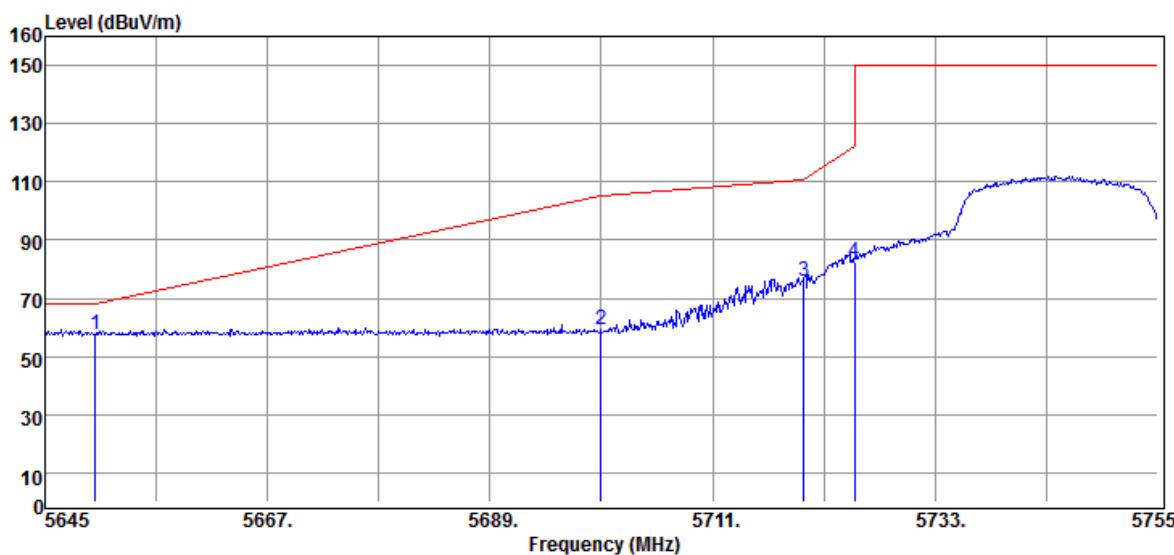
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Operation Mode :802.11n20 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5745 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	42.93	14.42	57.35	68.20	-10.85
5700.00	Peak	44.57	14.47	59.04	105.20	-46.16
5720.00	Peak	61.59	14.49	76.08	110.80	-34.72
5725.00	Peak	67.94	14.50	82.44	122.20	-39.76

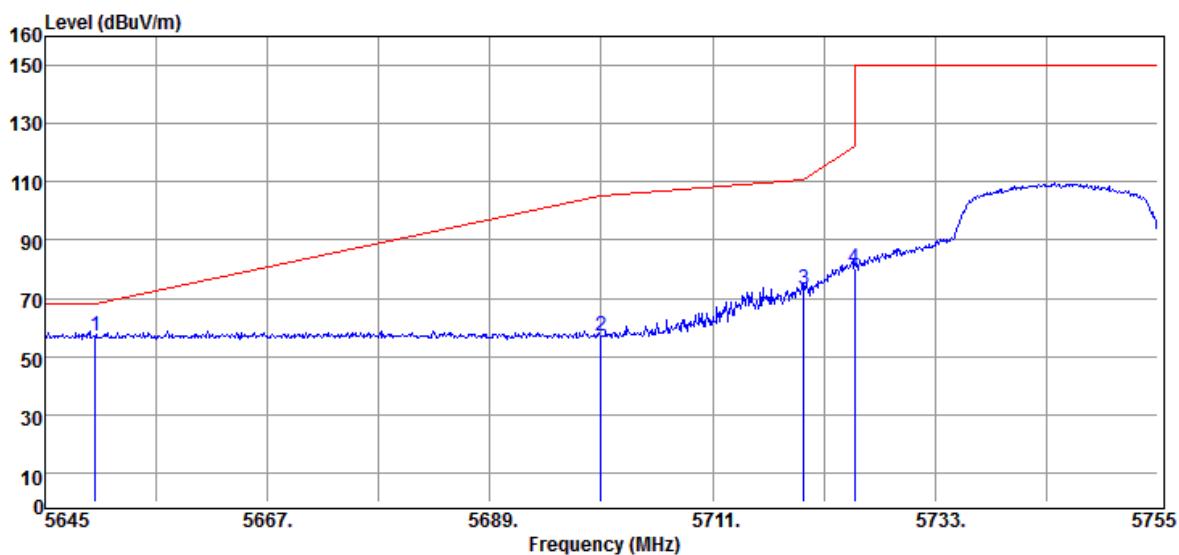
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Operation Mode :802.11n20 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5745 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	42.55	14.42	56.97	68.20	-11.23
5700.00	Peak	42.52	14.47	56.99	105.20	-48.21
5720.00	Peak	58.54	14.49	73.03	110.80	-37.77
5725.00	Peak	65.64	14.50	80.14	122.20	-42.06

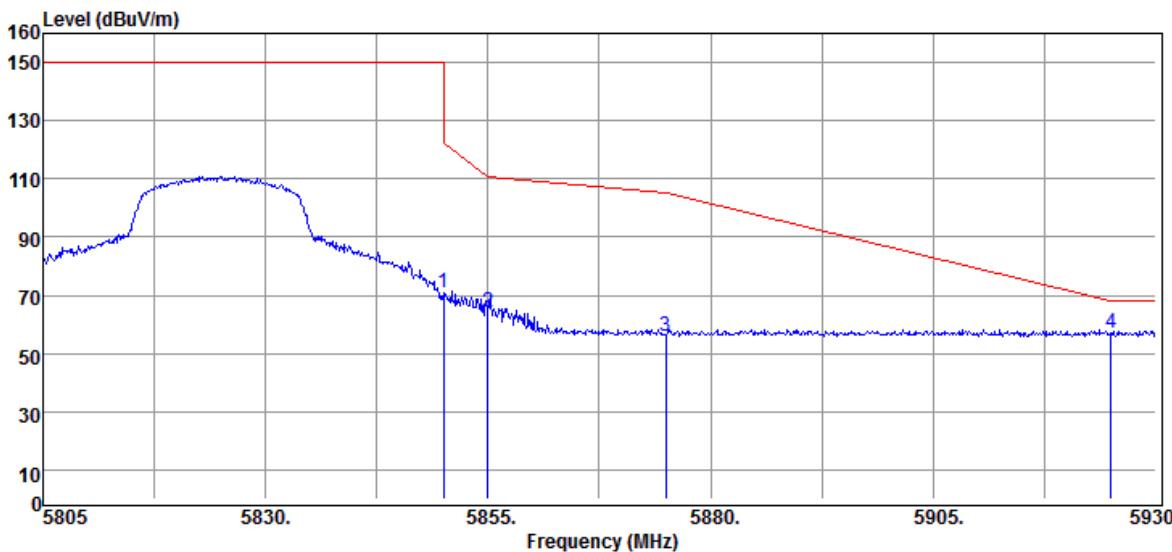
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Operation Mode :802.11n20 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5825 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	56.32	14.72	71.04	122.20	-51.16
5855.00	Peak	49.46	14.73	64.19	110.80	-46.61
5875.00	Peak	41.33	14.78	56.11	105.20	-49.09
5925.00	Peak	41.95	14.91	56.86	68.20	-11.34

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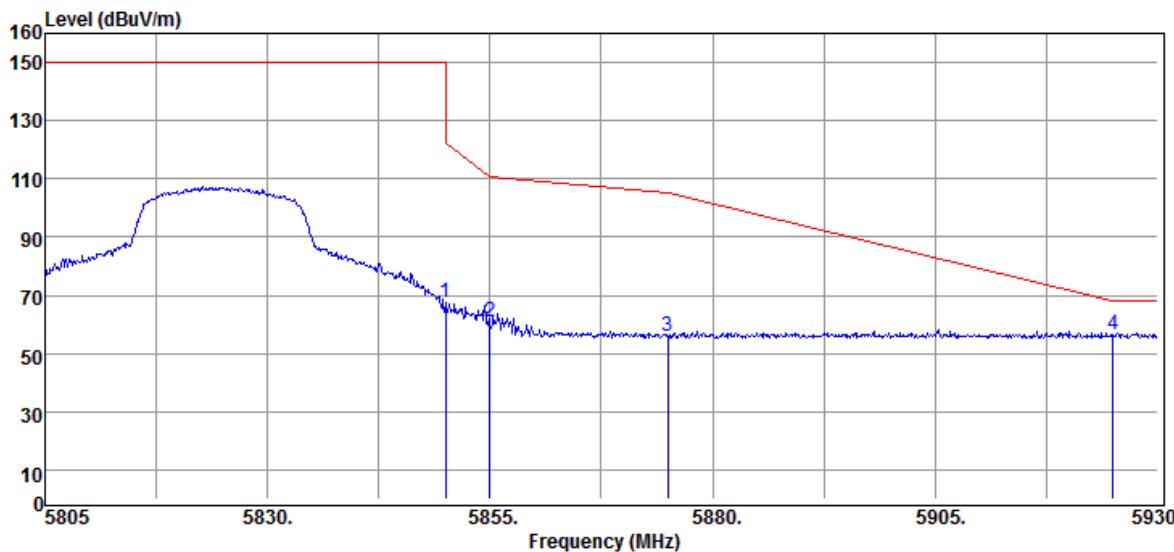
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Operation Mode :802.11n20 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5825 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	52.93	14.72	67.65	122.20	-54.55
5855.00	Peak	46.08	14.73	60.81	110.80	-49.99
5875.00	Peak	41.07	14.78	55.85	105.20	-49.35
5925.00	Peak	41.42	14.91	56.33	68.20	-11.87

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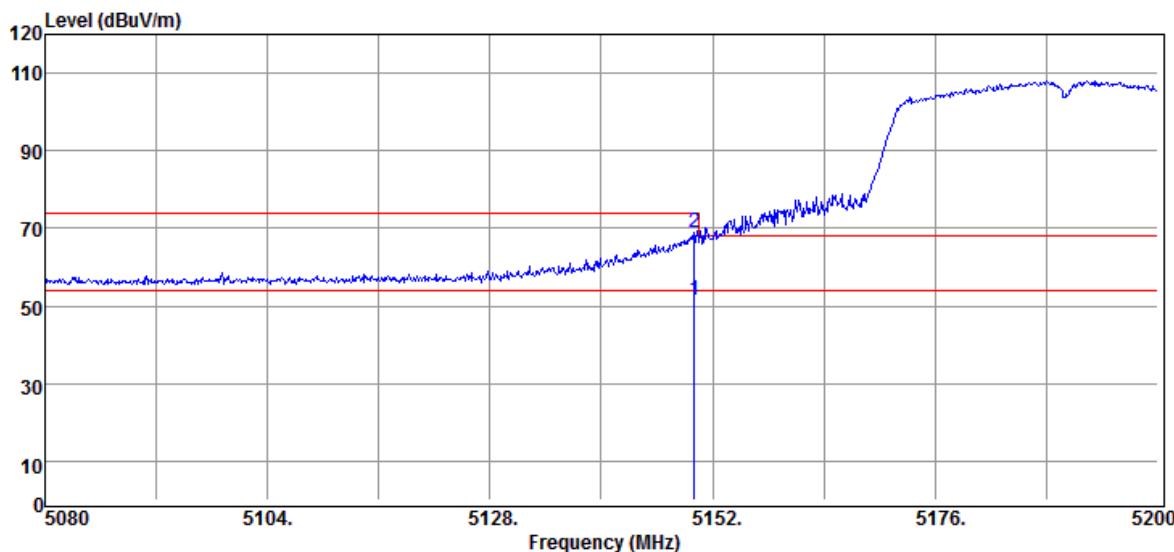
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802.11n40 HT mode

Operation Mode	:802.11n40 / Band 1	Test Date	:2018-08-07
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5190 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Average	37.73	13.65	51.38	54.00	-2.62
5150.00	Peak	55.31	13.65	68.96	74.00	-5.04

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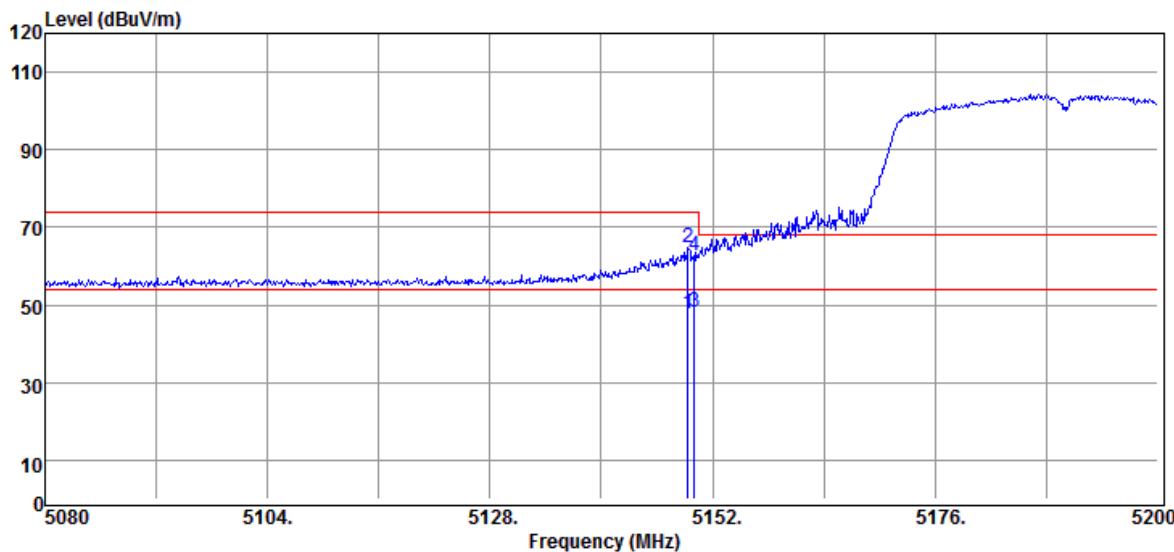
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Operation Mode :802.11n40 / Band 1
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5190 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.36	Average	34.15	13.64	47.79	54.00	-6.21
5149.36	Peak	51.27	13.64	64.91	74.00	-9.09
5150.00	Average	34.41	13.65	48.06	54.00	-5.94
5150.00	Peak	49.20	13.65	62.85	74.00	-11.15

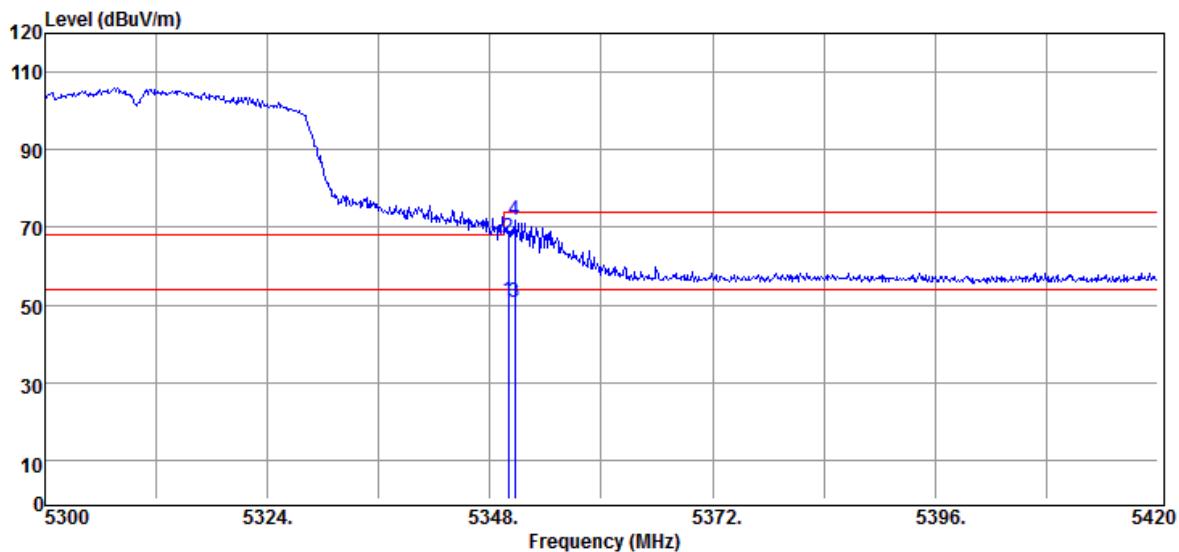
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Operation Mode :802.11n40 / Band 2
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5310 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	36.92	14.16	51.08	54.00	-2.92
5350.00	Peak	52.91	14.16	67.07	74.00	-6.93
5350.64	Average	36.42	14.17	50.59	54.00	-3.41
5350.64	Peak	57.64	14.17	71.81	74.00	-2.19

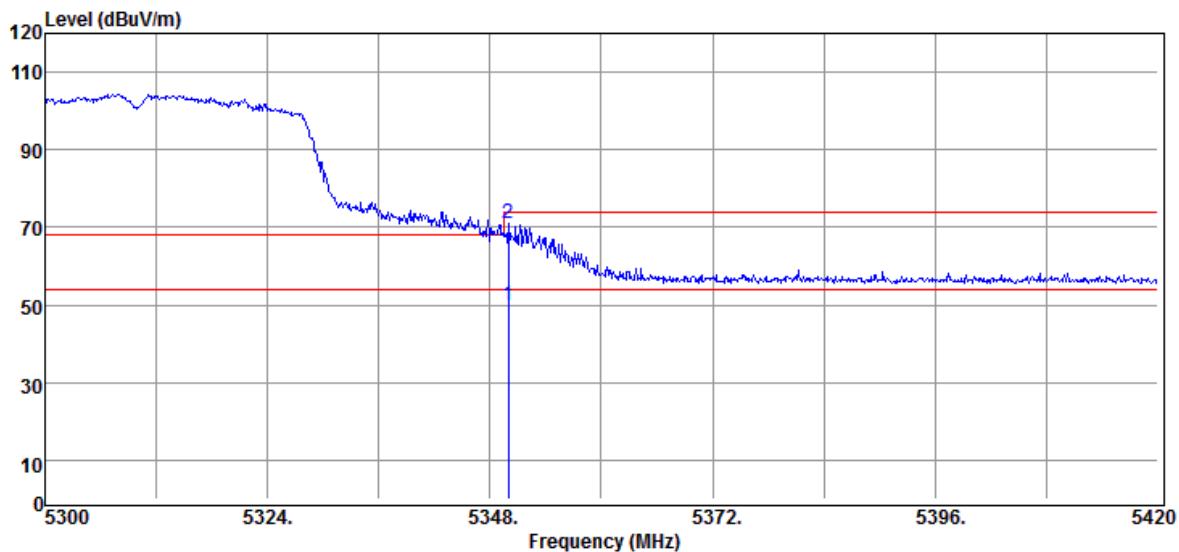
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Operation Mode	:802.11n40 / Band 2	Test Date	:2018-08-07
Test Mode	:BE CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5310 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	35.61	14.16	49.77	54.00	-4.23
5350.00	Peak	56.94	14.16	71.10	74.00	-2.90

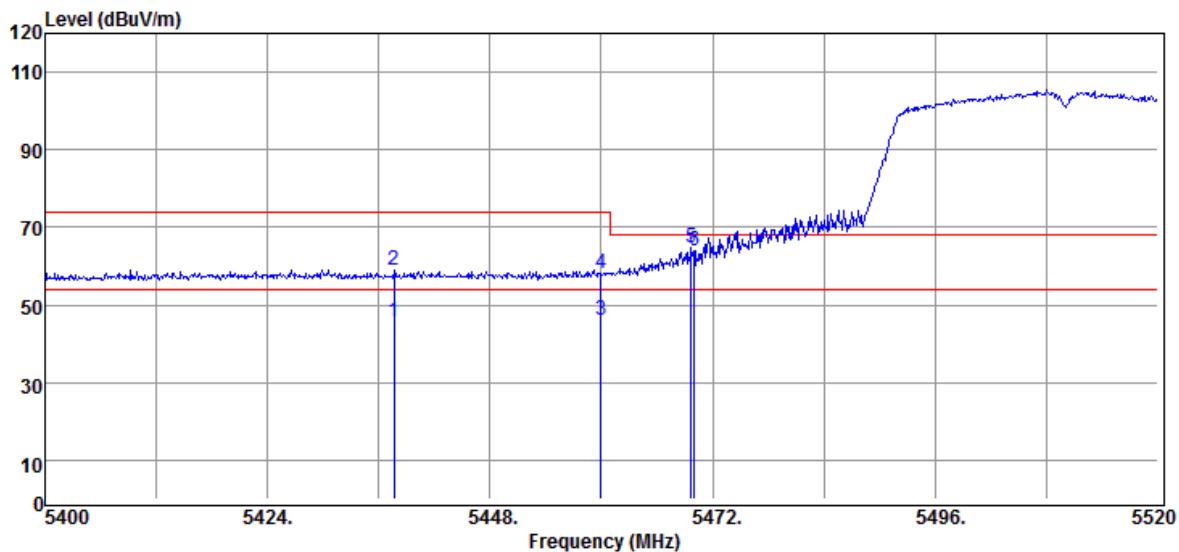
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Operation Mode :802.11n40 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5510 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5437.68	Average	31.27	14.30	45.57	54.00	-8.43
5437.68	Peak	44.67	14.30	58.97	74.00	-15.03
5460.00	Average	31.63	14.31	45.94	54.00	-8.06
5460.00	Peak	43.76	14.31	58.07	74.00	-15.93
5469.72	Peak	50.61	14.31	64.92	68.20	-3.28
5470.00	Peak	49.47	14.31	63.78	68.20	-4.42

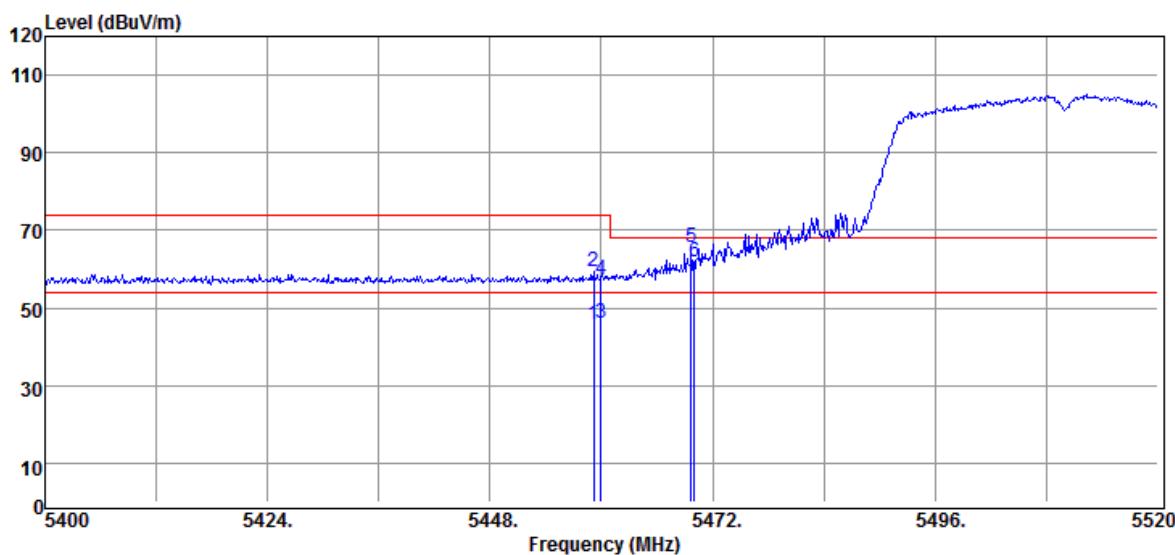
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Operation Mode :802.11n40 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5510 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.16	Average	31.55	14.31	45.86	54.00	-8.14
5459.16	Peak	45.02	14.31	59.33	74.00	-14.67
5460.00	Average	31.58	14.31	45.89	54.00	-8.11
5460.00	Peak	43.00	14.31	57.31	74.00	-16.69
5469.72	Peak	51.31	14.31	65.62	68.20	-2.58
5470.00	Peak	47.42	14.31	61.73	68.20	-6.47

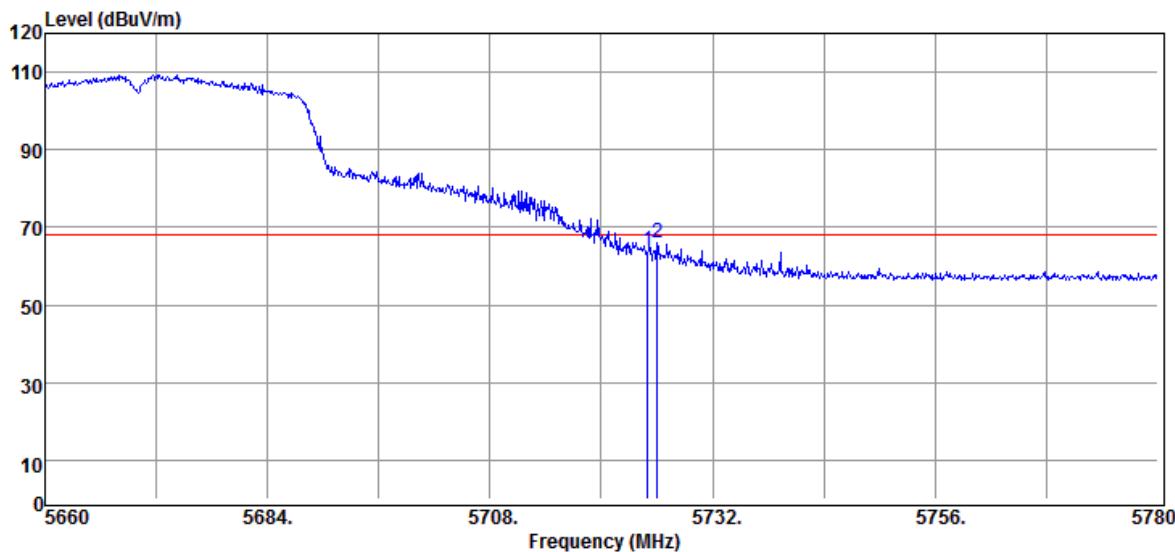
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Operation Mode :802.11n40 / Band 3
Test Mode :BE CH HIGH
EUT Pol :H Plan
Test Channel :5670 MHz
Test Date :2018-08-07
Temp./Humi. :25/60
Antenna Pol. :HORIZONTAL
Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	49.46	14.50	63.96	68.20	-4.24
5726.00	Peak	51.53	14.50	66.03	68.20	-2.17

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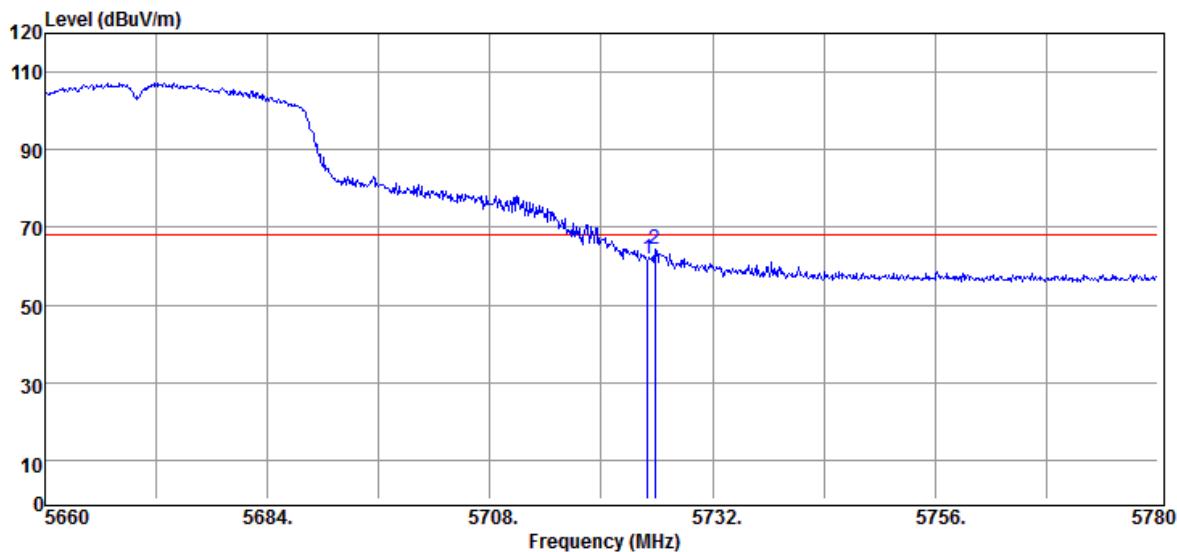
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Operation Mode :802.11n40 / Band 3
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5670 MHz
 Test Date :2018-08-07
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	47.54	14.50	62.04	68.20	-6.16
5725.76	Peak	50.01	14.50	64.51	68.20	-3.69

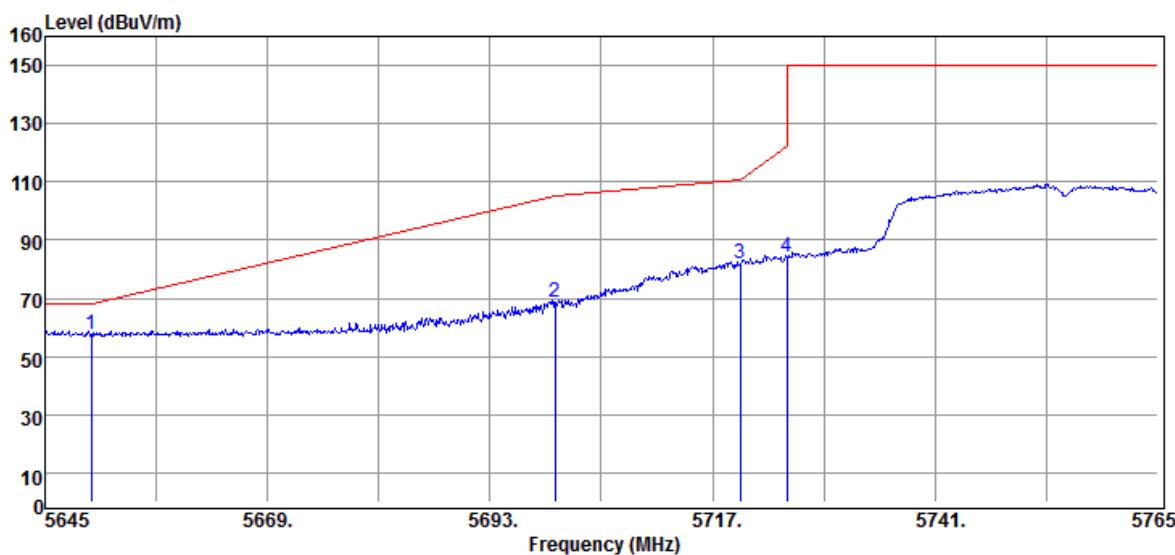
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Operation Mode :802.11n40 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5755 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	42.92	14.42	57.34	68.20	-10.86
5700.00	Peak	54.23	14.47	68.70	105.20	-36.50
5720.00	Peak	67.33	14.49	81.82	110.80	-28.98
5725.00	Peak	69.44	14.50	83.94	122.20	-38.26

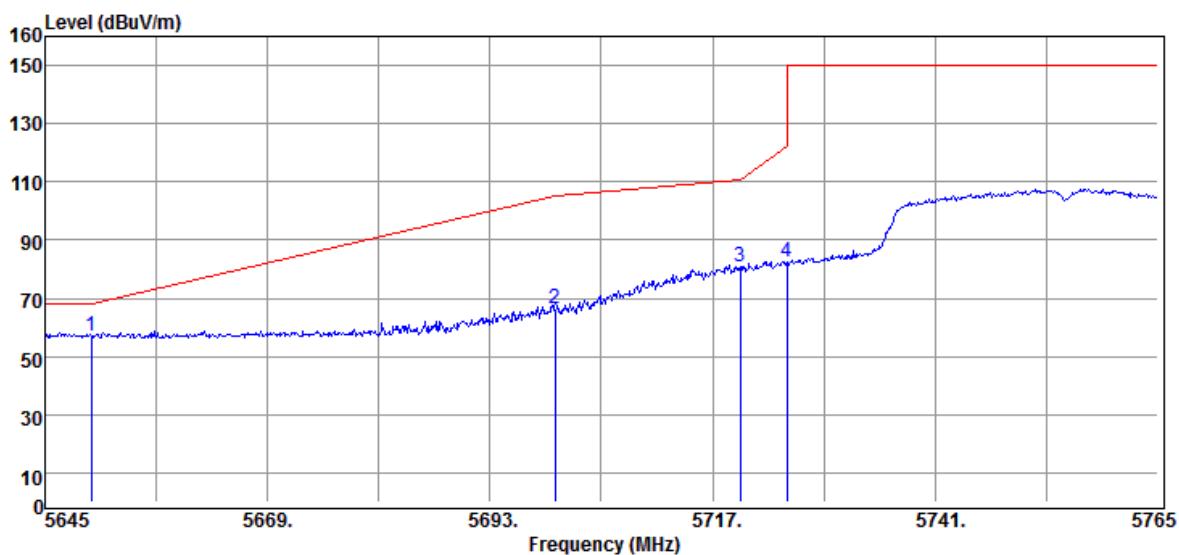
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Operation Mode :802.11n40 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5755 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	42.66	14.42	57.08	68.20	-11.12
5700.00	Peak	52.15	14.47	66.62	105.20	-38.58
5720.00	Peak	66.20	14.49	80.69	110.80	-30.11
5725.00	Peak	68.14	14.50	82.64	122.20	-39.56

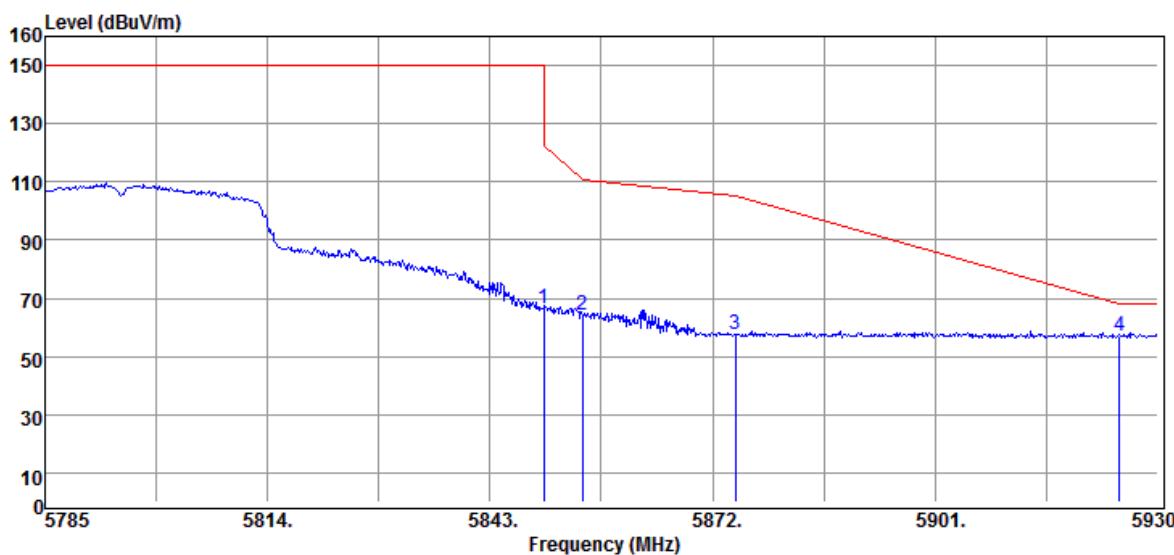
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Operation Mode :802.11n40 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5795 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	51.69	14.72	66.41	122.20	-55.79
5855.00	Peak	49.33	14.73	64.06	110.80	-46.74
5875.00	Peak	42.67	14.78	57.45	105.20	-47.75
5925.00	Peak	41.99	14.91	56.90	68.20	-11.30

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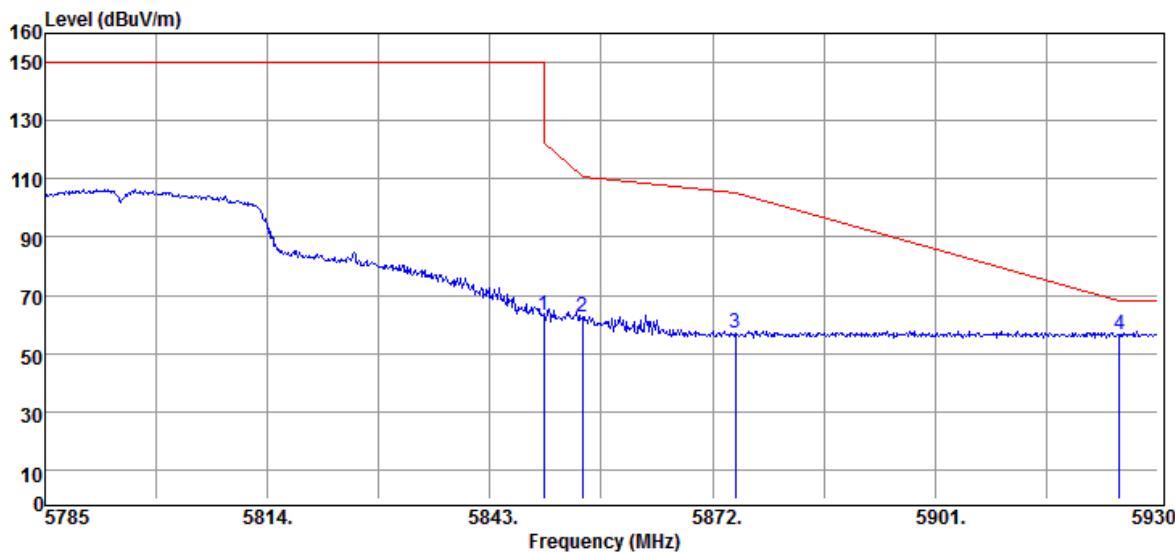
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Operation Mode :802.11n40 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5795 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	48.25	14.72	62.97	122.20	-59.23
5855.00	Peak	48.09	14.73	62.82	110.80	-47.98
5875.00	Peak	42.50	14.78	57.28	105.20	-47.92
5925.00	Peak	41.30	14.91	56.21	68.20	-11.99

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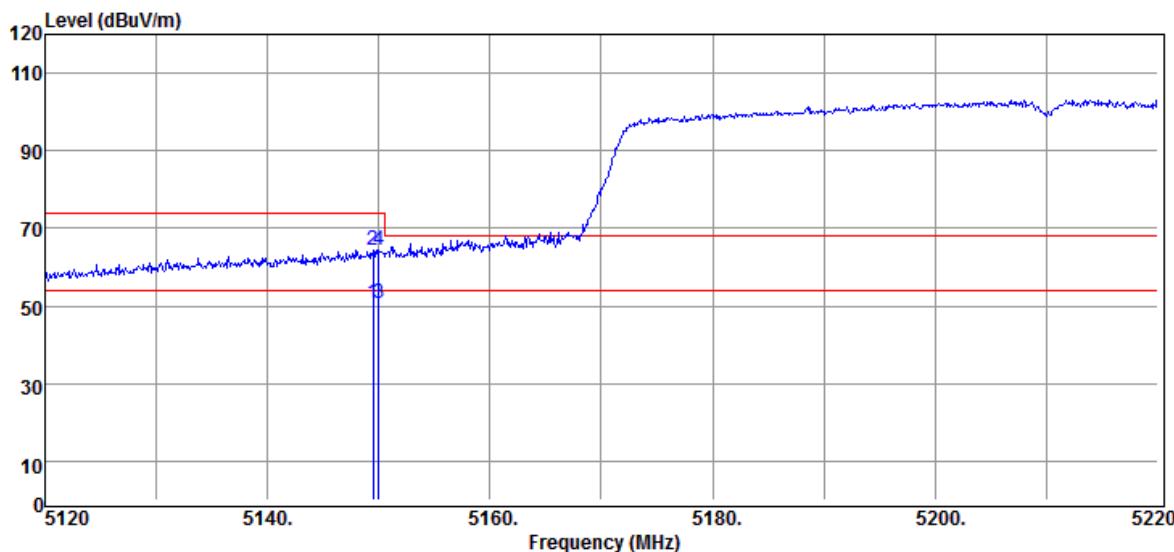
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802.11ac80 VHT mode

Operation Mode	:802.11ac80 / Band 1	Test Date	:2018-08-08
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:5210 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5149.50	Average	37.10	13.64	50.74	54.00	-3.26
5149.50	Peak	50.80	13.64	64.44	74.00	-9.56
5150.00	Average	37.16	13.65	50.81	54.00	-3.19
5150.00	Peak	50.54	13.65	64.19	74.00	-9.81

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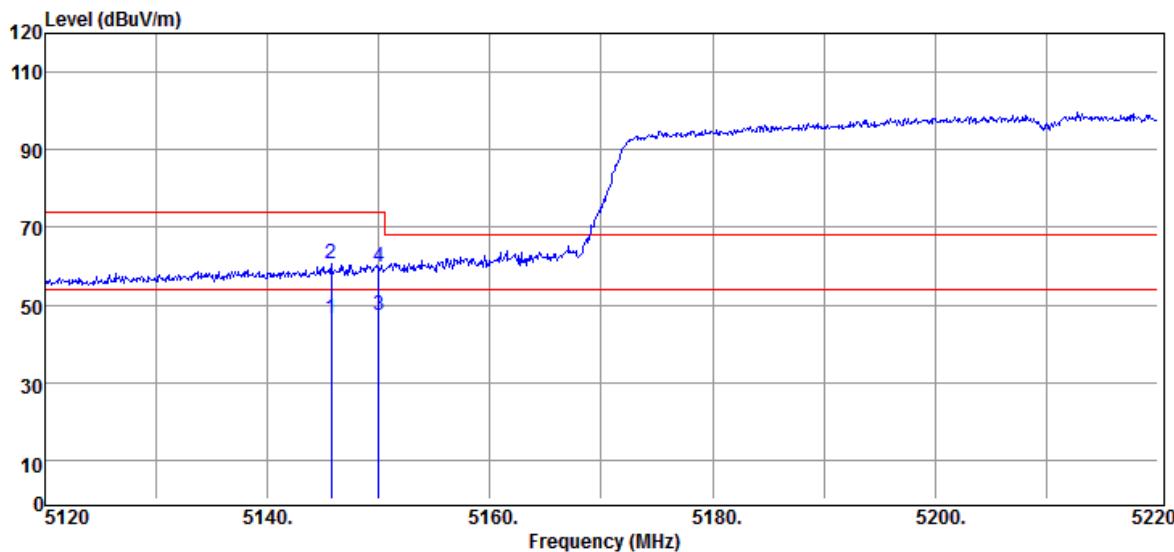
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Operation Mode :802.11ac80 / Band 1 Test Date :2018-08-08
Test Mode :BE CH LOW Temp./Humi. :25/60
EUT Pol :H Plan Antenna Pol. :HORIZONTAL
Test Channel :5210 MHz Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5145.70	Average	32.91	13.63	46.54	54.00	-7.46
5145.70	Peak	47.00	13.63	60.63	74.00	-13.37
5150.00	Average	33.88	13.65	47.53	54.00	-6.47
5150.00	Peak	46.32	13.65	59.97	74.00	-14.03

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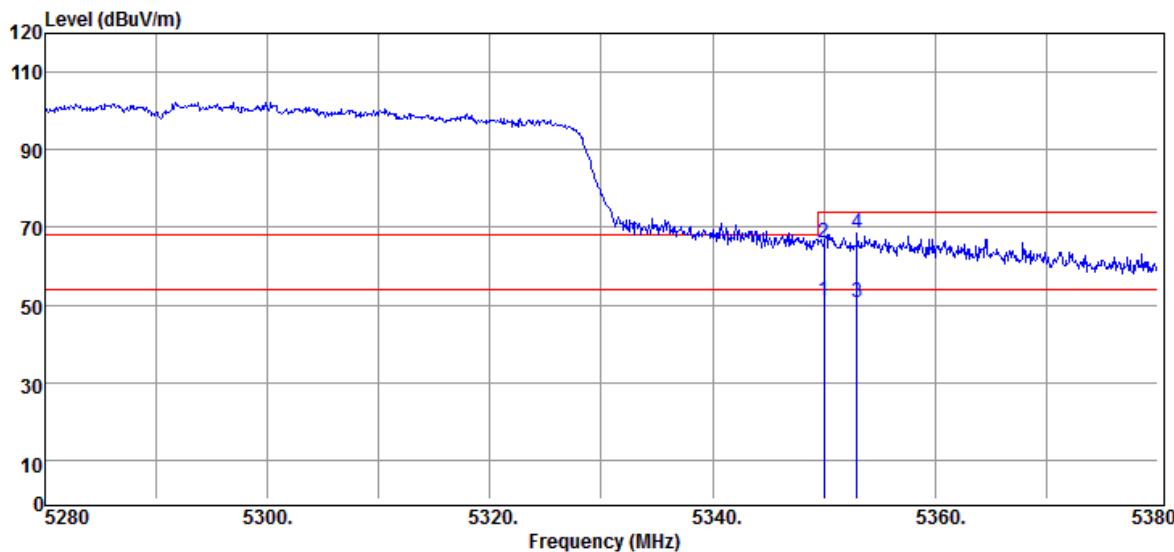
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Member of SGS Group

Operation Mode :802.11ac80 / Band 2 Test Date :2018-08-08
Test Mode :BE CH HIGH Temp./Humi. :25/60
EUT Pol :H Plan Antenna Pol. :VERTICAL
Test Channel :5290 MHz Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	36.83	14.16	50.99	54.00	-3.01
5350.00	Peak	51.98	14.16	66.14	74.00	-7.86
5353.00	Average	36.34	14.17	50.51	54.00	-3.49
5353.00	Peak	54.17	14.17	68.34	74.00	-5.66

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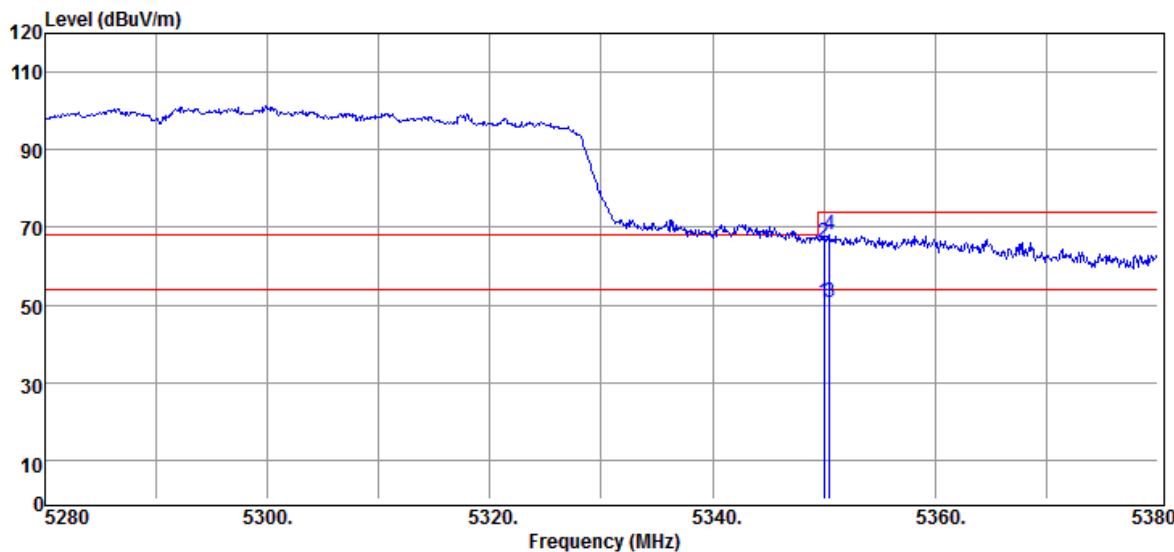
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Operation Mode :802.11ac80 / Band 2
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5290 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Average	36.44	14.16	50.60	54.00	-3.40
5350.00	Peak	51.94	14.16	66.10	74.00	-7.90
5350.50	Average	36.29	14.17	50.46	54.00	-3.54
5350.50	Peak	53.75	14.17	67.92	74.00	-6.08

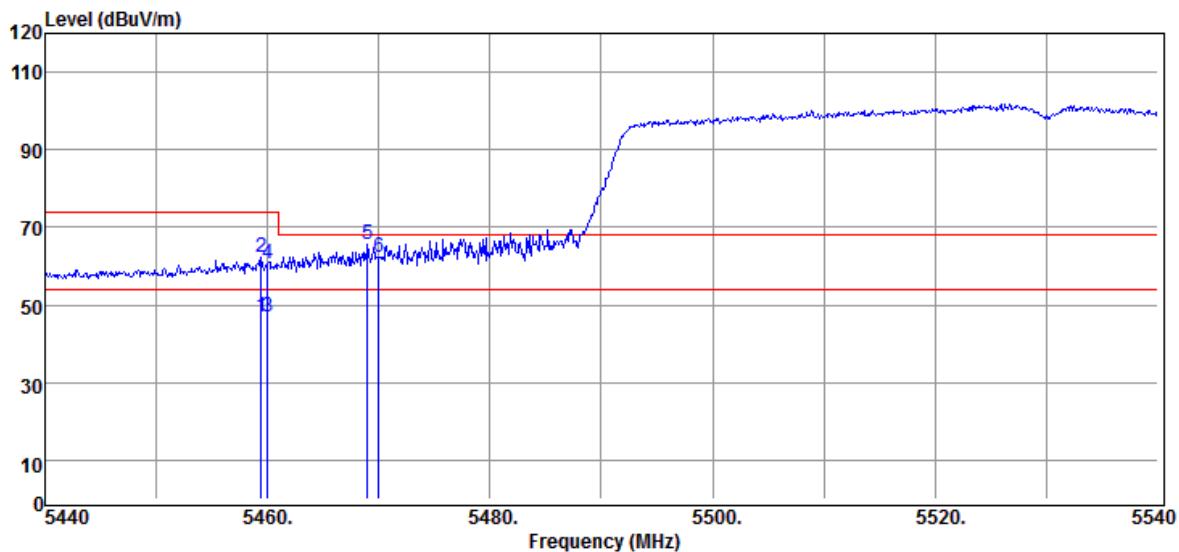
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Operation Mode :802.11ac80 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5530 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5459.40	Average	32.55	14.31	46.86	54.00	-7.14
5459.40	Peak	48.11	14.31	62.42	74.00	-11.58
5460.00	Average	32.49	14.31	46.80	54.00	-7.20
5460.00	Peak	46.26	14.31	60.57	74.00	-13.43
5469.00	Peak	51.26	14.32	65.58	68.20	-2.62
5470.00	Peak	48.15	14.31	62.46	68.20	-5.74

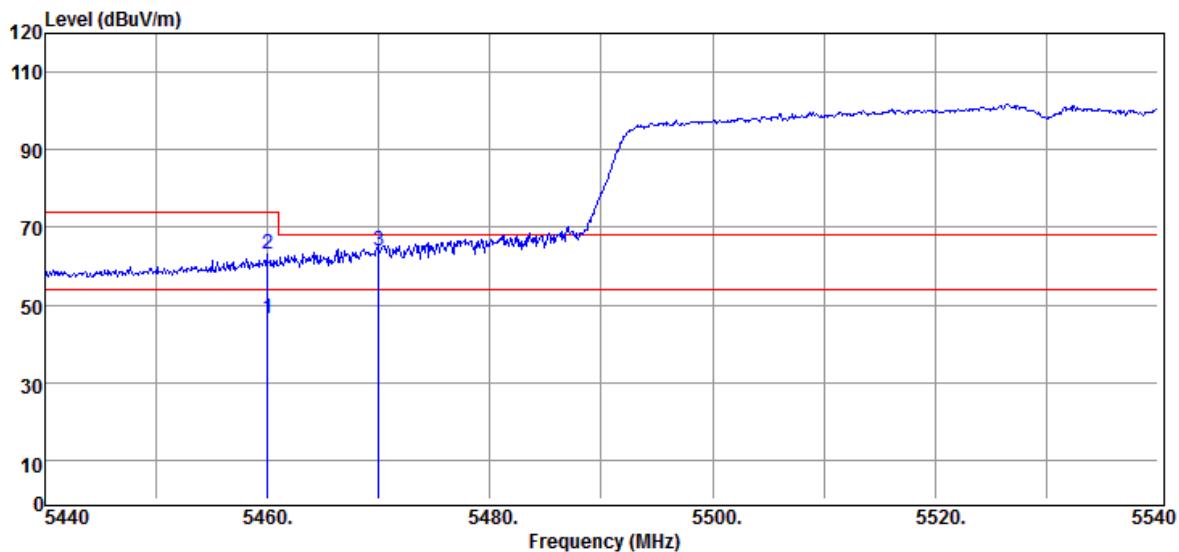
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Operation Mode :802.11ac80 / Band 3
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5530 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	32.05	14.31	46.36	54.00	-7.64
5460.00	Peak	48.77	14.31	63.08	74.00	-10.92
5470.00	Peak	49.47	14.31	63.78	68.20	-4.42

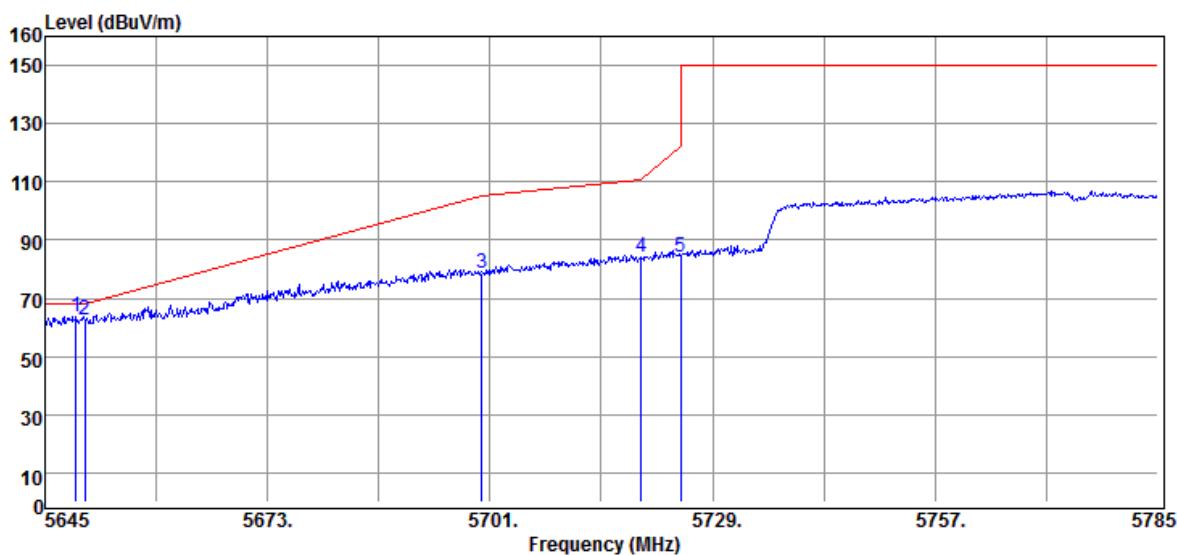
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Operation Mode	:802.11ac80 / Band 4	Test Date	:2018-08-08
Test Mode	:BE CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:5775 MHz	Engineer	:Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5648.92	Peak	49.44	14.41	63.85	68.20	-4.35
5650.00	Peak	48.40	14.42	62.82	68.20	-5.38
5700.00	Peak	64.30	14.47	78.77	105.20	-26.43
5720.00	Peak	69.70	14.49	84.19	110.80	-26.61
5725.00	Peak	69.78	14.50	84.28	122.20	-37.92

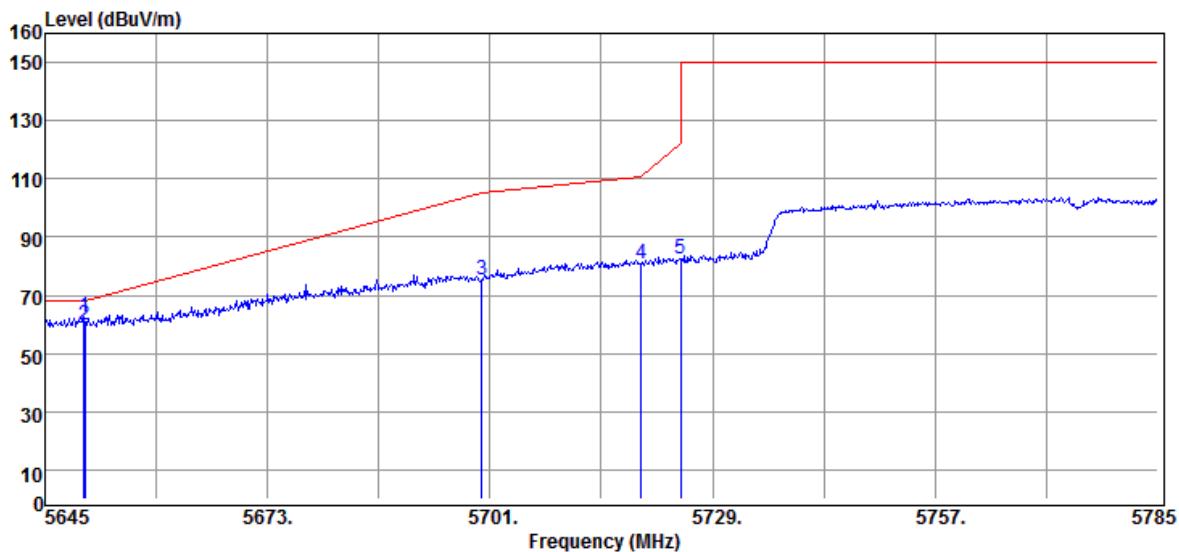
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Operation Mode :802.11ac80 / Band 4
 Test Mode :BE CH LOW
 EUT Pol :H Plan
 Test Channel :5775 MHz
 Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5649.90	Peak	48.29	14.42	62.71	68.20	-5.49
5650.00	Peak	45.30	14.42	59.72	68.20	-8.48
5700.00	Peak	61.00	14.47	75.47	105.20	-29.73
5720.00	Peak	66.55	14.49	81.04	110.80	-29.76
5725.00	Peak	68.25	14.50	82.75	122.20	-39.45

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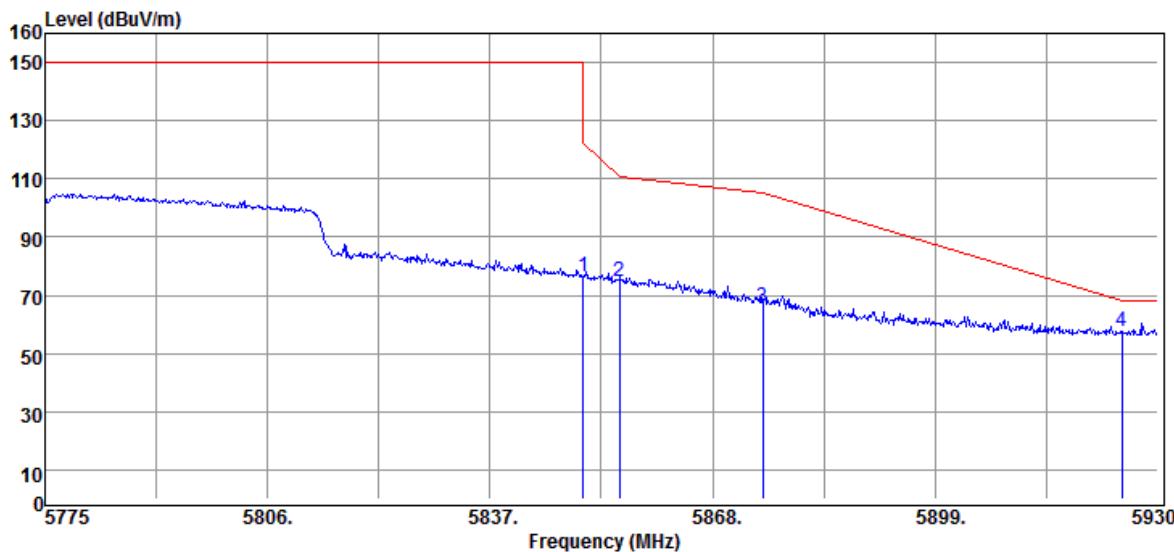
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Operation Mode :802.11ac80 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5775 MHz

Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	61.54	14.72	76.26	122.20	-45.94
5855.00	Peak	60.06	14.73	74.79	110.80	-36.01
5875.00	Peak	51.27	14.78	66.05	105.20	-39.15
5925.00	Peak	42.78	14.91	57.69	68.20	-10.51

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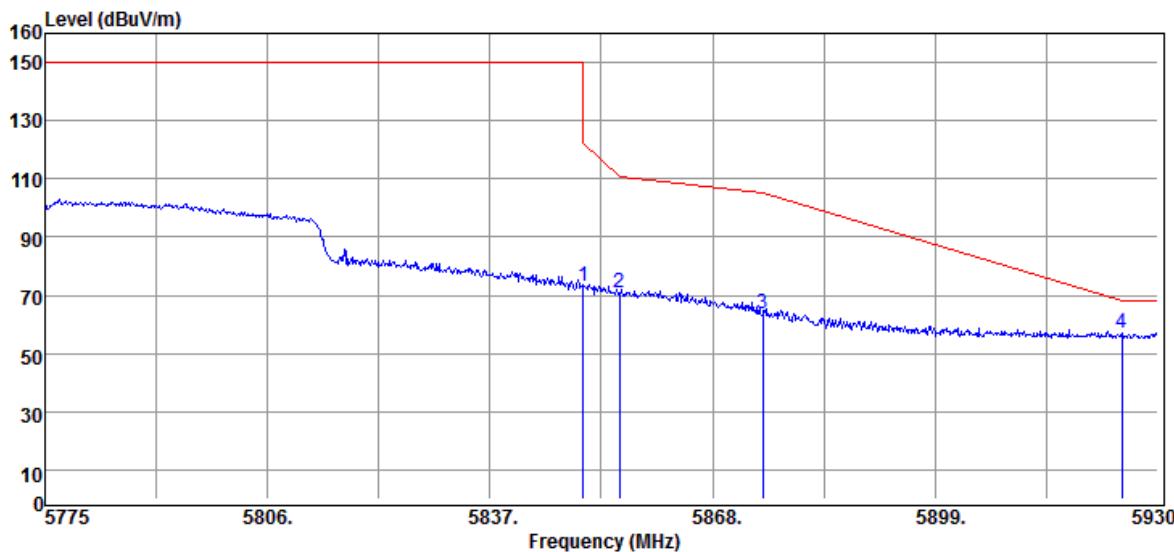
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Operation Mode :802.11ac80 / Band 4
 Test Mode :BE CH HIGH
 EUT Pol :H Plan
 Test Channel :5775 MHz

Test Date :2018-08-08
 Temp./Humi. :25/60
 Antenna Pol. :VERTICAL
 Engineer :Enzo



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	58.24	14.72	72.96	122.20	-49.24
5855.00	Peak	55.89	14.73	70.62	110.80	-40.18
5875.00	Peak	48.69	14.78	63.47	105.20	-41.73
5925.00	Peak	42.29	14.91	57.20	68.20	-11.00

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard 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.

12.2 Result

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

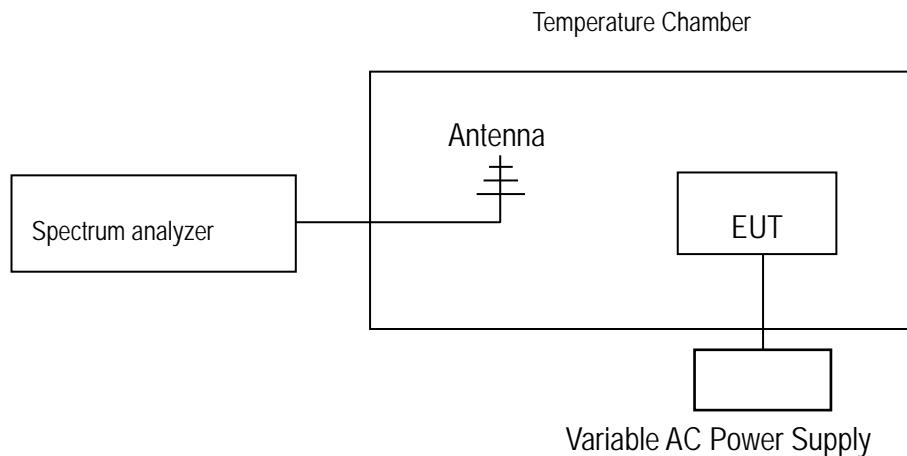
13.1 Standard Applicable

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.

13.2 Measurement Procedure

1. 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.

13.3 Test SET-UP



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13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Power Meter	Anritsu	ML2496A	1326001	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/08/02

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13.5 Measurement Result

Startup

Operation Mode	802.11 a	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	36	5180	5,179.95916	0.00000788
		44	5220	5,219.95843	0.00000796
		48	5240	5,239.91361	0.00001649
		52	5260	5,259.93645	0.00001208
		60	5300	5,299.90918	0.00001714
		64	5320	5,319.91986	0.00001506
		100	5500	5,499.93485	0.00001185
		116	5580	5,579.97264	0.00000490
		140	5700	5,699.93428	0.00001153
		144	5720	5,719.90550	0.00001652
		149	5745	5,744.90381	0.00001674
		157	5785	5,784.92376	0.00001318
		165	5825	5,824.99202	0.00000137
	4.18V	36	5180	5,179.99706	0.00000057
		44	5220	5,219.90076	0.00001901
		48	5240	5,239.95119	0.00000931
		52	5260	5,259.96542	0.00000657
		60	5300	5,299.93159	0.00001291
		64	5320	5,319.90650	0.00001758
		100	5500	5,499.99162	0.00000152
		116	5580	5,579.93802	0.00001111
		140	5700	5,699.95043	0.00000870
		144	5720	5,719.97255	0.00000480
		149	5745	5,744.97615	0.00000415
		157	5785	5,784.92388	0.00001316
		165	5825	5,824.96039	0.00000680

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25	3.8V	36	5180	5,179.95515	0.00000866
		44	5220	5,219.97343	0.00000509
		48	5240	5,239.99487	0.00000098
		52	5260	5,259.97057	0.00000560
		60	5300	5,299.94947	0.00000953
		64	5320	5,319.92726	0.00001367
		100	5500	5,499.93469	0.00001187
		116	5580	5,579.98477	0.00000273
		140	5700	5,699.92264	0.00001357
		144	5720	5,719.92167	0.00001369
		149	5745	5,744.90180	0.00001709
		157	5785	5,784.93115	0.00001190
		165	5825	5,824.92363	0.00001311
40	3.42V	36	5180	5,179.92746	0.00001400
		44	5220	5,219.92919	0.00001357
		48	5240	5,239.97232	0.00000528
		52	5260	5,259.92150	0.00001492
		60	5300	5,299.92833	0.00001352
		64	5320	5,319.93981	0.00001131
		100	5500	5,499.95173	0.00000878
		116	5580	5,579.91267	0.00001565
		140	5700	5,699.91147	0.00001553
		144	5720	5,719.94494	0.00000963
		149	5745	5,744.93957	0.00001052
		157	5785	5,784.96303	0.00000639
		165	5825	5,824.92479	0.00001291
40	4.18V	36	5180	5,179.99155	0.00000163
		44	5220	5,219.92675	0.00001403
		48	5240	5,239.97746	0.00000430
		52	5260	5,259.96189	0.00000725
		60	5300	5,299.99054	0.00000178
		64	5320	5,319.91598	0.00001579
		100	5500	5,499.96045	0.00000719
		116	5580	5,579.96159	0.00000688
		140	5700	5,699.99828	0.00000030
		144	5720	5,719.90552	0.00001652
		149	5745	5,744.93513	0.00001129
		157	5785	5,784.93477	0.00001128
		165	5825	5,824.93220	0.00001164

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Operation Mode	802.11 n_HT40	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	38	5190	5,189.98158	0.00000355
		46	5230	5,229.96195	0.00000728
		54	5270	5,269.90096	0.00001879
		62	5310	5,309.95132	0.00000917
		102	5510	5,509.94588	0.00000982
		110	5550	5,549.92039	0.00001434
		134	5670	5,669.99512	0.00000086
		142	5710	5,709.96184	0.00000668
		151	5755	5,754.98253	0.00000304
	4.18V	159	5795	5,794.94653	0.00000923
		38	5190	5,189.91361	0.00001665
		46	5230	5,229.94273	0.00001095
		54	5270	5,269.96234	0.00000715
		62	5310	5,309.94415	0.00001052
		102	5510	5,509.99345	0.00000119
		110	5550	5,549.94265	0.00001033
		134	5670	5,669.94640	0.00000945
		142	5710	5,709.92526	0.00001309
		151	5755	5,754.99294	0.00000123
		159	5795	5,794.94427	0.00000962

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25	3.8V	38	5190	5,189.99194	0.00000155
		46	5230	5,229.96966	0.00000580
		54	5270	5,269.96148	0.00000731
		62	5310	5,309.99465	0.00000101
		102	5510	5,509.94173	0.00001058
		110	5550	5,549.96339	0.00000660
		134	5670	5,669.94558	0.00000960
		142	5710	5,709.90572	0.00001651
		151	5755	5,754.96878	0.00000542
		159	5795	5,794.99905	0.00000016
40	3.42V	38	5190	5,189.90818	0.00001769
		46	5230	5,229.94405	0.00001070
		54	5270	5,269.95468	0.00000860
		62	5310	5,309.96311	0.00000695
		102	5510	5,509.93923	0.00001103
		110	5550	5,549.90867	0.00001646
		134	5670	5,669.92192	0.00001377
		142	5710	5,709.98504	0.00000262
		151	5755	5,754.97335	0.00000463
		159	5795	5,794.93023	0.00001204
40	4.18V	38	5190	5,189.90373	0.00001855
		46	5230	5,229.93144	0.00001311
		54	5270	5,269.95209	0.00000909
		62	5310	5,309.97785	0.00000417
		102	5510	5,509.90568	0.00001712
		110	5550	5,549.91213	0.00001583
		134	5670	5,669.90111	0.00001744
		142	5710	5,709.93810	0.00001084
		151	5755	5,754.94455	0.00000964
		159	5795	5,794.91885	0.00001400

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Operation Mode	802.11 ac_VHT80	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	42	5210	5,209.93027	0.00001338
		58	5290	5,289.94534	0.00001033
		106	5530	5,529.96350	0.00000660
		122	5610	5,609.97484	0.00000448
		138	5690	5,689.92811	0.00001263
		155	5775	5,774.91558	0.00001462
	4.18V	42	5210	5,209.93833	0.00001184
		58	5290	5,289.93409	0.00001246
		106	5530	5,529.98646	0.00000245
		122	5610	5,609.98401	0.00000285
		138	5690	5,689.95732	0.00000750
		155	5775	5,774.96739	0.00000565
25	3.8V	42	5210	5,209.90503	0.00001823
		58	5290	5,289.93888	0.00001155
		106	5530	5,529.93683	0.00001142
		122	5610	5,609.98395	0.00000286
		138	5690	5,689.93381	0.00001163
		155	5775	5,774.96316	0.00000638
	3.42V	42	5210	5,209.96680	0.00000637
		58	5290	5,289.99517	0.00000091
		106	5530	5,529.93906	0.00001102
		122	5610	5,609.95661	0.00000773
		138	5690	5,689.90503	0.00001669
		155	5775	5,774.96821	0.00000550
40	4.18V	42	5210	5,209.95044	0.00000951
		58	5290	5,289.93344	0.00001258
		106	5530	5,529.98418	0.00000286
		122	5610	5,609.92691	0.00001303
		138	5690	5,689.98448	0.00000273
		155	5775	5,774.97033	0.00000514

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	36	5180	5,179.97571	0.00000469
		44	5220	5,219.94111	0.00001128
		48	5240	5,239.99193	0.00000154
		52	5260	5,259.95921	0.00000775
		60	5300	5,299.99179	0.00000155
		64	5320	5,319.91474	0.00001603
		100	5500	5,499.94343	0.00001029
		116	5580	5,579.99310	0.00000124
		140	5700	5,699.94125	0.00001031
		144	5720	5,719.97236	0.00000483
		149	5745	5,744.97343	0.00000462
		157	5785	5,784.97555	0.00000423
		165	5825	5,824.97052	0.00000506
	4.18V	36	5180	5,179.90262	0.00001880
		44	5220	5,219.91611	0.00001607
		48	5240	5,239.92214	0.00001486
		52	5260	5,259.96801	0.00000608
		60	5300	5,299.98710	0.00000243
		64	5320	5,319.92431	0.00001423
		100	5500	5,499.97909	0.00000380
		116	5580	5,579.94320	0.00001018
		140	5700	5,699.97905	0.00000368
		144	5720	5,719.93308	0.00001170
		149	5745	5,744.90130	0.00001718
		157	5785	5,784.90405	0.00001659
		165	5825	5,824.95773	0.00000726

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25	3.8V	36	5180	5,179.90084	0.00001914
		44	5220	5,219.97186	0.00000539
		48	5240	5,239.93067	0.00001323
		52	5260	5,259.96832	0.00000602
		60	5300	5,299.94916	0.00000959
		64	5320	5,319.96310	0.00000694
		100	5500	5,499.94458	0.00001008
		116	5580	5,579.93539	0.00001158
		140	5700	5,699.97084	0.00000512
		144	5720	5,719.99208	0.00000138
		149	5745	5,744.96979	0.00000526
		157	5785	5,784.90605	0.00001624
		165	5825	5,824.91024	0.00001541
		36	5180	5,179.96625	0.00000652
		44	5220	5,219.95758	0.00000813
		48	5240	5,239.97961	0.00000389
40	3.42V	52	5260	5,259.93727	0.00001193
		60	5300	5,299.91359	0.00001630
		64	5320	5,319.98594	0.00000264
		100	5500	5,499.98230	0.00000322
		116	5580	5,579.92847	0.00001282
		140	5700	5,699.95229	0.00000837
		144	5720	5,719.98592	0.00000246
		149	5745	5,744.94996	0.00000871
		157	5785	5,784.95953	0.00000700
		165	5825	5,824.98110	0.00000324
		36	5180	5,179.92551	0.00001438
		44	5220	5,219.96579	0.00000655
		48	5240	5,239.91965	0.00001533
		52	5260	5,259.90251	0.00001853
		60	5300	5,299.97203	0.00000528
40	4.18V	64	5320	5,319.99902	0.00000018
		100	5500	5,499.97133	0.00000521
		116	5580	5,579.99940	0.00000011
		140	5700	5,699.98537	0.00000257
		144	5720	5,719.91050	0.00001565
		149	5745	5,744.90850	0.00001593
		157	5785	5,784.98305	0.00000293
		165	5825	5,824.99741	0.00000044

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Operation Mode	802.11 n_HT40	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	38	5190	5,189.95766	0.00000816
		46	5230	5,229.94999	0.00000956
		54	5270	5,269.90298	0.00001841
		62	5310	5,309.96700	0.00000621
		102	5510	5,509.93902	0.00001107
		110	5550	5,549.90133	0.00001778
		134	5670	5,669.93332	0.00001176
		142	5710	5,709.93986	0.00001053
		151	5755	5,754.93284	0.00001167
		159	5795	5,794.92825	0.00001238
	4.18V	38	5190	5,189.98109	0.00000364
		46	5230	5,229.95140	0.00000929
		54	5270	5,269.96576	0.00000650
		62	5310	5,309.99362	0.00000120
		102	5510	5,509.92371	0.00001385
		110	5550	5,549.99477	0.00000094
		134	5670	5,669.91500	0.00001499
		142	5710	5,709.98111	0.00000331
		151	5755	5,754.96536	0.00000602
		159	5795	5,794.91042	0.00001546

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25	3.8V	38	5190	5,189.96017	0.00000767
		46	5230	5,229.99165	0.00000160
		54	5270	5,269.94375	0.00001067
		62	5310	5,309.93080	0.00001303
		102	5510	5,509.98927	0.00000195
		110	5550	5,549.90487	0.00001714
		134	5670	5,669.94006	0.00001057
		142	5710	5,709.99276	0.00000127
		151	5755	5,754.94902	0.00000886
		159	5795	5,794.90441	0.00001650
40	3.42V	38	5190	5,189.96607	0.00000654
		46	5230	5,229.95242	0.00000910
		54	5270	5,269.92646	0.00001395
		62	5310	5,309.91141	0.00001668
		102	5510	5,509.97280	0.00000494
		110	5550	5,549.98180	0.00000328
		134	5670	5,669.97828	0.00000383
		142	5710	5,709.91971	0.00001406
		151	5755	5,754.96348	0.00000635
		159	5795	5,794.97083	0.00000503
40	4.18V	38	5190	5,189.92593	0.00001427
		46	5230	5,229.90412	0.00001833
		54	5270	5,269.97752	0.00000427
		62	5310	5,309.94533	0.00001030
		102	5510	5,509.94438	0.00001009
		110	5550	5,549.99290	0.00000128
		134	5670	5,669.94976	0.00000886
		142	5710	5,709.97281	0.00000476
		151	5755	5,754.97989	0.00000349
		159	5795	5,794.96326	0.00000634

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Operation Mode	802.11 ac_VHT80	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	42	5210	5,209.91114	0.00001706
		58	5290	5,289.97945	0.00000388
		106	5530	5,529.90605	0.00001699
		122	5610	5,609.95371	0.00000825
		138	5690	5,689.91999	0.00001406
		155	5775	5,774.92136	0.00001362
	4.18V	42	5210	5,209.98515	0.00000285
		58	5290	5,289.99455	0.00000103
		106	5530	5,529.94173	0.00001054
		122	5610	5,609.92875	0.00001270
		138	5690	5,689.90883	0.00001602
		155	5775	5,774.92502	0.00001298
25	3.8V	42	5210	5,209.97562	0.00000468
		58	5290	5,289.90436	0.00001808
		106	5530	5,529.98855	0.00000207
		122	5610	5,609.91336	0.00001544
		138	5690	5,689.96285	0.00000653
		155	5775	5,774.91189	0.00001526
40	3.42V	42	5210	5,209.98117	0.00000361
		58	5290	5,289.93631	0.00001204
		106	5530	5,529.91179	0.00001595
		122	5610	5,609.91953	0.00001434
		138	5690	5,689.94678	0.00000935
		155	5775	5,774.91454	0.00001480
	4.18V	42	5210	5,209.96429	0.00000685
		58	5290	5,289.96507	0.00000660
		106	5530	5,529.99717	0.00000051
		122	5610	5,609.99772	0.00000041
		138	5690	5,689.94139	0.00001030
		155	5775	5,774.96296	0.00000641

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5 Minutes

Operation Mode	802.11 a	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	36	5180	5,179.94704	0.00001022
		44	5220	5,219.98913	0.00000208
		48	5240	5,239.90523	0.00001809
		52	5260	5,259.91639	0.00001590
		60	5300	5,299.97818	0.00000412
		64	5320	5,319.90048	0.00001871
		100	5500	5,499.96997	0.00000546
		116	5580	5,579.98104	0.00000340
		140	5700	5,699.98250	0.00000307
		144	5720	5,719.98682	0.00000230
		149	5745	5,744.98092	0.00000332
		157	5785	5,784.92819	0.00001241
	4.18V	165	5825	5,824.98081	0.00000329
		36	5180	5,179.97722	0.00000440
		44	5220	5,219.91999	0.00001533
		48	5240	5,239.93033	0.00001330
		52	5260	5,259.97207	0.00000531
		60	5300	5,299.97758	0.00000423
		64	5320	5,319.96479	0.00000662
		100	5500	5,499.90380	0.00001749
		116	5580	5,579.97226	0.00000497
		140	5700	5,699.96522	0.00000610
		144	5720	5,719.93077	0.00001210
		149	5745	5,744.95225	0.00000831
		157	5785	5,784.98981	0.00000176
		165	5825	5,824.91463	0.00001466

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25	3.8V	36	5180	5,179.94297	0.00001101
		44	5220	5,219.92520	0.00001433
		48	5240	5,239.95426	0.00000873
		52	5260	5,259.90628	0.00001782
		60	5300	5,299.97657	0.00000442
		64	5320	5,319.93561	0.00001210
		100	5500	5,499.90951	0.00001645
		116	5580	5,579.96302	0.00000663
		140	5700	5,699.96026	0.00000697
		144	5720	5,719.93293	0.00001173
		149	5745	5,744.93061	0.00001208
		157	5785	5,784.92880	0.00001231
		165	5825	5,824.91818	0.00001405
		36	5180	5,179.95421	0.00000884
		44	5220	5,219.98061	0.00000371
		48	5240	5,239.91059	0.00001706
40	3.42V	52	5260	5,259.90916	0.00001727
		60	5300	5,299.93410	0.00001243
		64	5320	5,319.91772	0.00001547
		100	5500	5,499.91482	0.00001549
		116	5580	5,579.90420	0.00001717
		140	5700	5,699.99786	0.00000038
		144	5720	5,719.90467	0.00001667
		149	5745	5,744.90677	0.00001623
		157	5785	5,784.90816	0.00001588
		165	5825	5,824.96463	0.00000607
		36	5180	5,179.94413	0.00001079
		44	5220	5,219.93761	0.00001195
		48	5240	5,239.92882	0.00001358
40	4.18V	52	5260	5,259.95079	0.00000936
		60	5300	5,299.95079	0.00000928
		64	5320	5,319.93956	0.00001136
		100	5500	5,499.92125	0.00001432
		116	5580	5,579.93742	0.00001122
		140	5700	5,699.92099	0.00001386
		144	5720	5,719.99024	0.00000171
		149	5745	5,744.99654	0.00000060
		157	5785	5,784.96634	0.00000582
		165	5825	5,824.97166	0.00000487

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Operation Mode	802.11 n_HT40	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	38	5190	5,189.93054	0.00001338
		46	5230	5,229.90769	0.00001765
		54	5270	5,269.99622	0.00000072
		62	5310	5,309.94939	0.00000953
		102	5510	5,509.91259	0.00001586
		110	5550	5,549.98531	0.00000265
		134	5670	5,669.99649	0.00000062
		142	5710	5,709.90594	0.00001647
		151	5755	5,754.99906	0.00000016
		159	5795	5,794.98154	0.00000319
0	4.18V	38	5190	5,189.98627	0.00000265
		46	5230	5,229.91301	0.00001663
		54	5270	5,269.93698	0.00001196
		62	5310	5,309.95902	0.00000772
		102	5510	5,509.92409	0.00001378
		110	5550	5,549.92839	0.00001290
		134	5670	5,669.92288	0.00001360
		142	5710	5,709.95342	0.00000816
		151	5755	5,754.95740	0.00000740
		159	5795	5,794.97021	0.00000514

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25	3.8V	38	5190	5,189.92568	0.00001432
		46	5230	5,229.93202	0.00001300
		54	5270	5,269.92624	0.00001400
		62	5310	5,309.92607	0.00001392
		102	5510	5,509.98395	0.00000291
		110	5550	5,549.93966	0.00001087
		134	5670	5,669.93005	0.00001234
		142	5710	5,709.98965	0.00000181
		151	5755	5,754.95677	0.00000751
		159	5795	5,794.96376	0.00000625
40	3.42V	38	5190	5,189.95127	0.00000939
		46	5230	5,229.91479	0.00001629
		54	5270	5,269.95887	0.00000780
		62	5310	5,309.96477	0.00000663
		102	5510	5,509.90690	0.00001690
		110	5550	5,549.97666	0.00000421
		134	5670	5,669.90810	0.00001621
		142	5710	5,709.91668	0.00001459
		151	5755	5,754.97829	0.00000377
		159	5795	5,794.99758	0.00000042
40	4.18V	38	5190	5,189.97003	0.00000577
		46	5230	5,229.98353	0.00000315
		54	5270	5,269.97067	0.00000557
		62	5310	5,309.97910	0.00000394
		102	5510	5,509.95707	0.00000779
		110	5550	5,549.97553	0.00000441
		134	5670	5,669.98672	0.00000234
		142	5710	5,709.93042	0.00001219
		151	5755	5,754.99542	0.00000080
		159	5795	5,794.95798	0.00000725

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Operation Mode	802.11 ac_VHT80	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	42	5210	5,209.93278	0.00001290
		58	5290	5,289.97883	0.00000400
		106	5530	5,529.97399	0.00000470
		122	5610	5,609.93114	0.00001227
		138	5690	5,689.96920	0.00000541
		155	5775	5,774.93513	0.00001123
	4.18V	42	5210	5,209.97680	0.00000445
		58	5290	5,289.97281	0.00000514
		106	5530	5,529.98916	0.00000196
		122	5610	5,609.90638	0.00001669
		138	5690	5,689.98314	0.00000296
		155	5775	5,774.93177	0.00001181
25	3.8V	42	5210	5,209.94539	0.00001048
		58	5290	5,289.95032	0.00000939
		106	5530	5,529.91296	0.00001574
		122	5610	5,609.92164	0.00001397
		138	5690	5,689.94748	0.00000923
		155	5775	5,774.97085	0.00000505
40	3.42V	42	5210	5,209.94761	0.00001006
		58	5290	5,289.93927	0.00001148
		106	5530	5,529.99557	0.00000080
		122	5610	5,609.90601	0.00001675
		138	5690	5,689.98579	0.00000250
		155	5775	5,774.94294	0.00000988
	4.18V	42	5210	5,209.96581	0.00000656
		58	5290	5,289.90713	0.00001756
		106	5530	5,529.91742	0.00001493
		122	5610	5,609.91396	0.00001534
		138	5690	5,689.92530	0.00001313
		155	5775	5,774.99450	0.00000095

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10 Minutes

Operation Mode	802.11 a	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	36	5180	5,179.96941	0.00000591
		44	5220	5,219.99969	0.00000006
		48	5240	5,239.90629	0.00001788
		52	5260	5,259.92127	0.00001497
		60	5300	5,299.99971	0.00000005
		64	5320	5,319.96278	0.00000700
		100	5500	5,499.99855	0.00000026
		116	5580	5,579.90558	0.00001692
		140	5700	5,699.98958	0.00000183
		144	5720	5,719.95049	0.00000866
		149	5745	5,744.94016	0.00001042
		157	5785	5,784.94348	0.00000977
		165	5825	5,824.97314	0.00000461
	4.18V	36	5180	5,179.95836	0.00000804
		44	5220	5,219.93891	0.00001170
		48	5240	5,239.95426	0.00000873
		52	5260	5,259.99490	0.00000097
		60	5300	5,299.97301	0.00000509
		64	5320	5,319.98046	0.00000367
		100	5500	5,499.91696	0.00001510
		116	5580	5,579.97800	0.00000394
		140	5700	5,699.96149	0.00000676
		144	5720	5,719.92572	0.00001299
		149	5745	5,744.94714	0.00000920
		157	5785	5,784.96994	0.00000520
		165	5825	5,824.90989	0.00001547

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25	3.8V	36	5180	5,179.98264	0.00000335
		44	5220	5,219.98705	0.00000248
		48	5240	5,239.94586	0.00001033
		52	5260	5,259.97108	0.00000550
		60	5300	5,299.94046	0.00001123
		64	5320	5,319.92166	0.00001473
		100	5500	5,499.98057	0.00000353
		116	5580	5,579.93528	0.00001160
		140	5700	5,699.92478	0.00001320
		144	5720	5,719.99291	0.00000124
		149	5745	5,744.97631	0.00000412
		157	5785	5,784.95537	0.00000771
		165	5825	5,824.93342	0.00001143
		36	5180	5,179.96212	0.00000731
		44	5220	5,219.92201	0.00001494
		48	5240	5,239.98513	0.00000284
40	3.42V	52	5260	5,259.99047	0.00000181
		60	5300	5,299.90443	0.00001803
		64	5320	5,319.92327	0.00001442
		100	5500	5,499.95712	0.00000780
		116	5580	5,579.95200	0.00000860
		140	5700	5,699.90673	0.00001636
		144	5720	5,719.94710	0.00000925
		149	5745	5,744.94795	0.00000906
		157	5785	5,784.97373	0.00000454
		165	5825	5,824.93684	0.00001084
		36	5180	5,179.91028	0.00001732
		44	5220	5,219.99319	0.00000130
		48	5240	5,239.95693	0.00000822
		52	5260	5,259.90652	0.00001777
		60	5300	5,299.97186	0.00000531
40	4.18V	64	5320	5,319.91755	0.00001550
		100	5500	5,499.98450	0.00000282
		116	5580	5,579.95591	0.00000790
		140	5700	5,699.93486	0.00001143
		144	5720	5,719.99437	0.00000098
		149	5745	5,744.96926	0.00000535
		157	5785	5,784.93907	0.00001053
		165	5825	5,824.98219	0.00000306

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Operation Mode	802.11 n_HT40	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	38	5190	5,189.92601	0.00001426
		46	5230	5,229.90612	0.00001795
		54	5270	5,269.95544	0.00000846
		62	5310	5,309.94568	0.00001023
		102	5510	5,509.99403	0.00000108
		110	5550	5,549.93155	0.00001233
		134	5670	5,669.92198	0.00001376
		142	5710	5,709.93064	0.00001215
		151	5755	5,754.93801	0.00001077
		159	5795	5,794.90588	0.00001624
0	4.18V	38	5190	5,189.97699	0.00000443
		46	5230	5,229.95727	0.00000817
		54	5270	5,269.90693	0.00001766
		62	5310	5,309.93236	0.00001274
		102	5510	5,509.94668	0.00000968
		110	5550	5,549.92248	0.00001397
		134	5670	5,669.95502	0.00000793
		142	5710	5,709.94439	0.00000974
		151	5755	5,754.91367	0.00001500
		159	5795	5,794.99091	0.00000157

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25	3.8V	38	5190	5,189.90521	0.00001826
		46	5230	5,229.97966	0.00000389
		54	5270	5,269.96829	0.00000602
		62	5310	5,309.98423	0.00000297
		102	5510	5,509.90415	0.00001740
		110	5550	5,549.94216	0.00001042
		134	5670	5,669.92406	0.00001339
		142	5710	5,709.96237	0.00000659
		151	5755	5,754.95681	0.00000750
		159	5795	5,794.98308	0.00000292
40	3.42V	38	5190	5,189.94191	0.00001119
		46	5230	5,229.93705	0.00001204
		54	5270	5,269.91245	0.00001661
		62	5310	5,309.98501	0.00000282
		102	5510	5,509.90780	0.00001673
		110	5550	5,549.94815	0.00000934
		134	5670	5,669.97202	0.00000493
		142	5710	5,709.93083	0.00001211
		151	5755	5,754.90167	0.00001709
		159	5795	5,794.98564	0.00000248
40	4.18V	38	5190	5,189.93066	0.00001336
		46	5230	5,229.95709	0.00000820
		54	5270	5,269.98646	0.00000257
		62	5310	5,309.95839	0.00000784
		102	5510	5,509.93985	0.00001092
		110	5550	5,549.94450	0.00001000
		134	5670	5,669.97024	0.00000525
		142	5710	5,709.99619	0.00000067
		151	5755	5,754.97220	0.00000483
		159	5795	5,794.97352	0.00000457

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Operation Mode	802.11 ac_VHT80	Test Date	2018.08.24
Temperature	:24.5	Test By	Scott
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	3.42V	42	5210	5,209.99706	0.00000056
		58	5290	5,289.99063	0.00000177
		106	5530	5,529.90254	0.00001762
		122	5610	5,609.95913	0.00000729
		138	5690	5,689.96549	0.00000607
		155	5775	5,774.90759	0.00001600
	4.18V	42	5210	5,209.96517	0.00000669
		58	5290	5,289.94097	0.00001116
		106	5530	5,529.98840	0.00000210
		122	5610	5,609.99643	0.00000064
		138	5690	5,689.91924	0.00001419
		155	5775	5,774.94156	0.00001012
25	3.8V	42	5210	5,209.90698	0.00001785
		58	5290	5,289.97450	0.00000482
		106	5530	5,529.94855	0.00000930
		122	5610	5,609.93412	0.00001174
		138	5690	5,689.96157	0.00000675
		155	5775	5,774.96655	0.00000579
	4.18V	42	5210	5,209.96987	0.00000578
		58	5290	5,289.93722	0.00001187
		106	5530	5,529.96432	0.00000645
		122	5610	5,609.90006	0.00001781
		138	5690	5,689.93794	0.00001091
		155	5775	5,774.91550	0.00001463

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14 ANTENNA REQUIREMENT

14.1 Standard 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.

14.2 Antenna Connected Construction

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

~ End of Report ~

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