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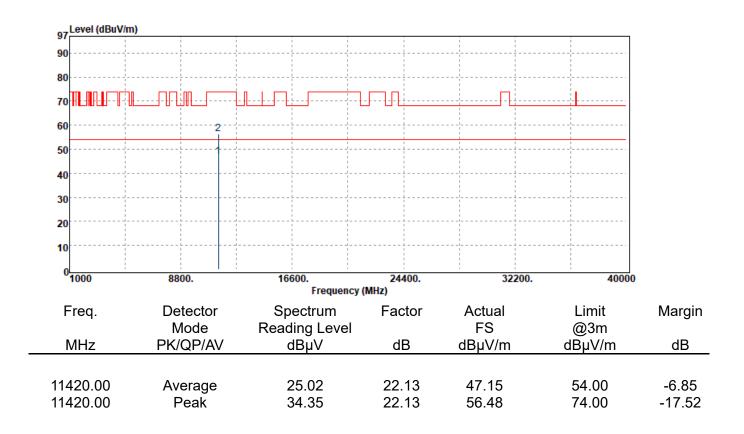
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11n40

Test Frequency :5710 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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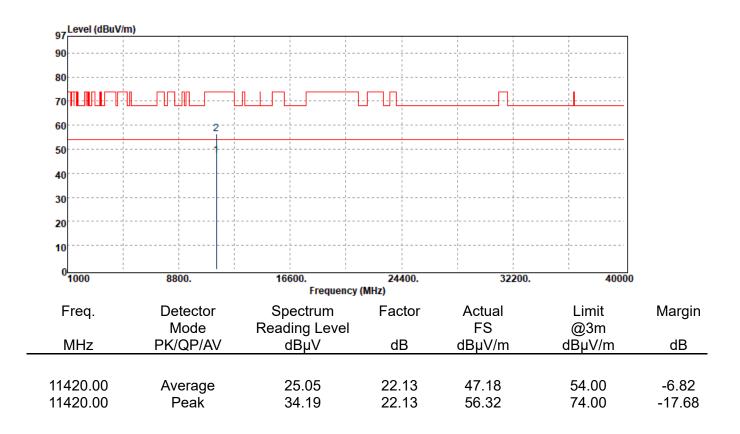
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11n40

Test Frequency :5710 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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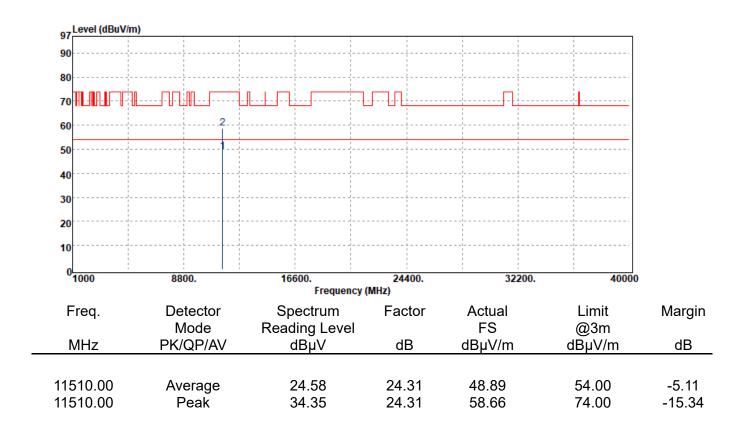
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11n40

Test Frequency :5755 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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:E2 Plane

EUT Pol

Report No.: ER/2021/40063

:Ricky Chen

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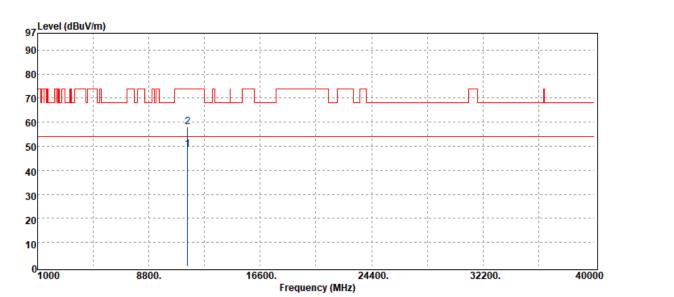
Engineer

Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-23

Test Frequency :5755 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL



		Frequency (MHZ)			
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00 11510.00	Average Peak	24.47 33.67	24.31 24.31	48.78 57.98	54.00 74.00	-5.22 -16.02

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Report Number :ER-2021-40063 Test Site :SAC III Chamber

Operation Mode :802.11n40 Test Date :2021-04-23

Test Frequency :5795 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH High Antenna Pol. :VERTICAL EUT Pol :E2 Plane Engineer :Ricky Chen



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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11n40

Test Frequency :5795 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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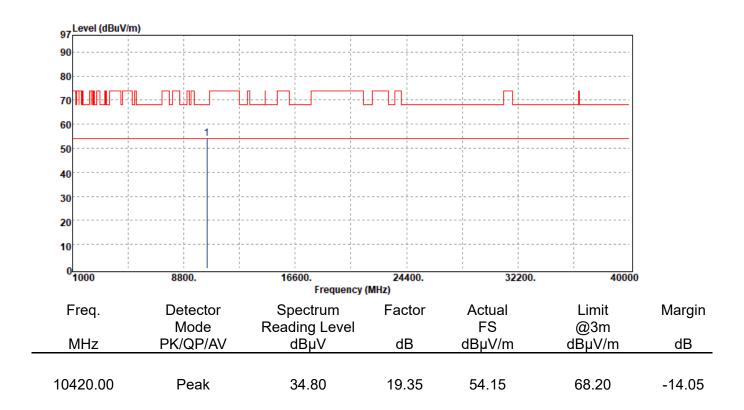
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5210 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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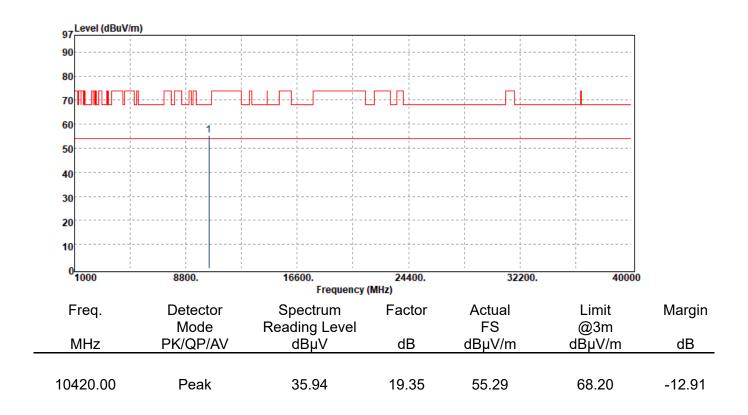
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5210 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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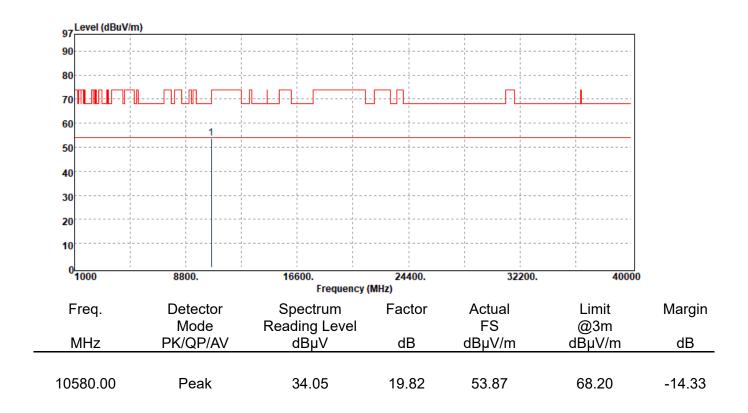
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5290 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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:E2 Plane

EUT Pol

Report No.: ER/2021/40063

:Ricky Chen

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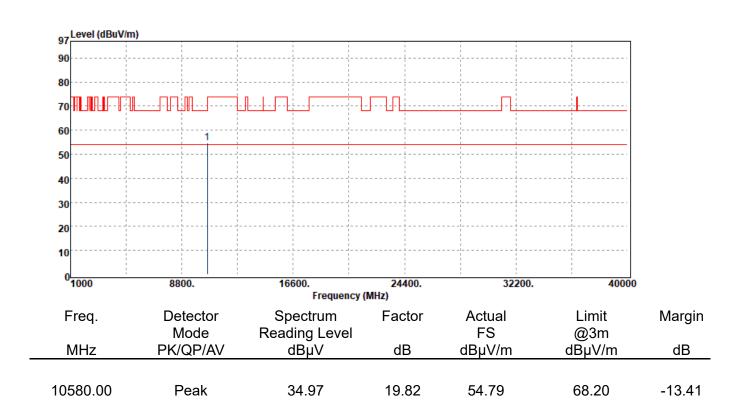
Engineer

Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5290 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL



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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5530 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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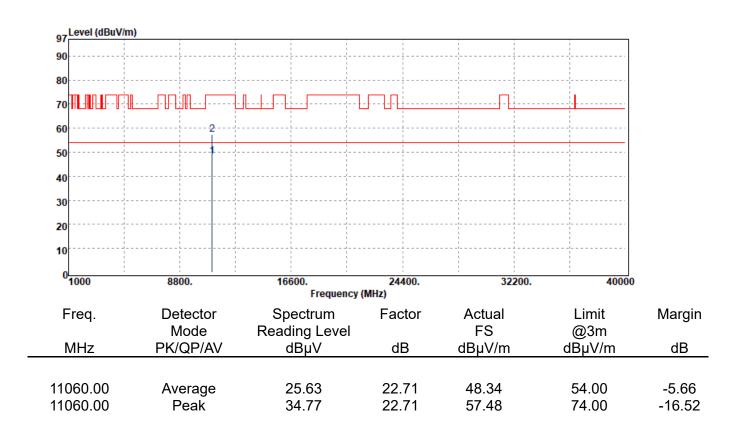
Report Number :ER-2021-40063 Test Site :SAC III Chamber

Operation Mode :802.11ac80 Test Date :2021-04-23

Test Frequency :5530 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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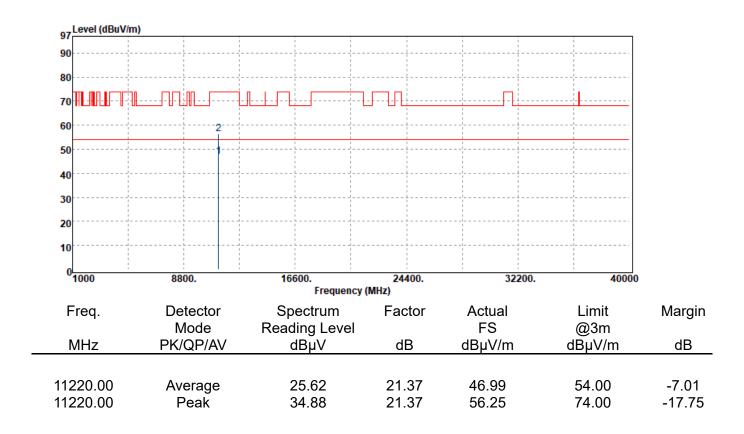
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5610 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Mid Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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Test Mode

Report No.: ER/2021/40063

:HORIZONTAL

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Antenna Pol.

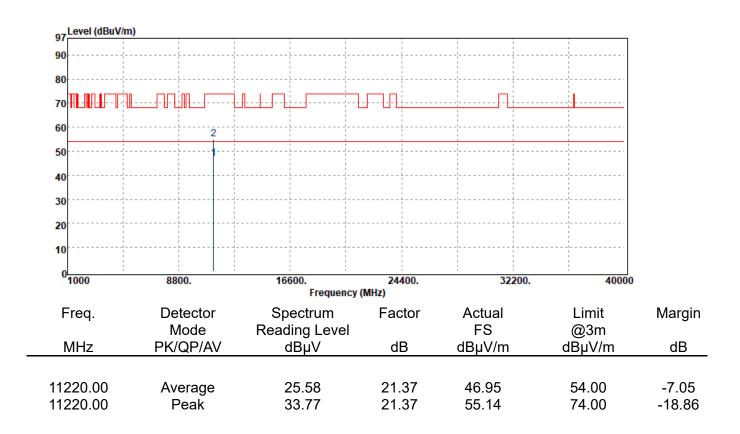
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5610 MHz Temp./Humi. :24.5/65

:Tx CH Mid

EUT Pol :E2 Plane Engineer :Ricky Chen



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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5690 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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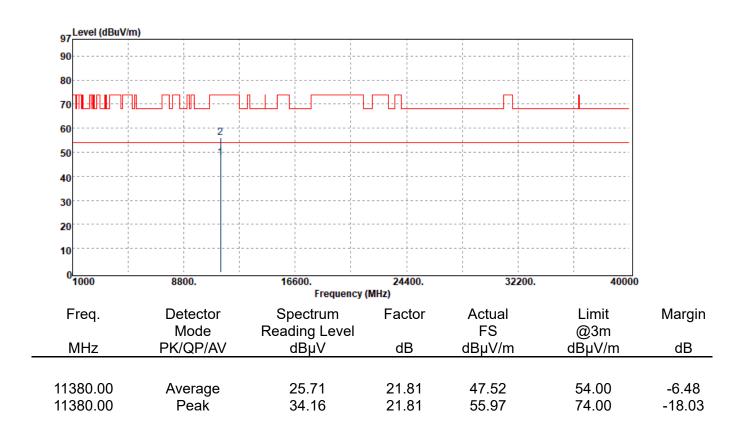
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Report Number :ER-2021-40063 Test Site :SAC III Chamber

Operation Mode :802.11ac80 Test Date :2021-04-23

Test Frequency :5690 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH High Antenna Pol. :HORIZONTAL EUT Pol :E2 Plane Engineer :Ricky Chen



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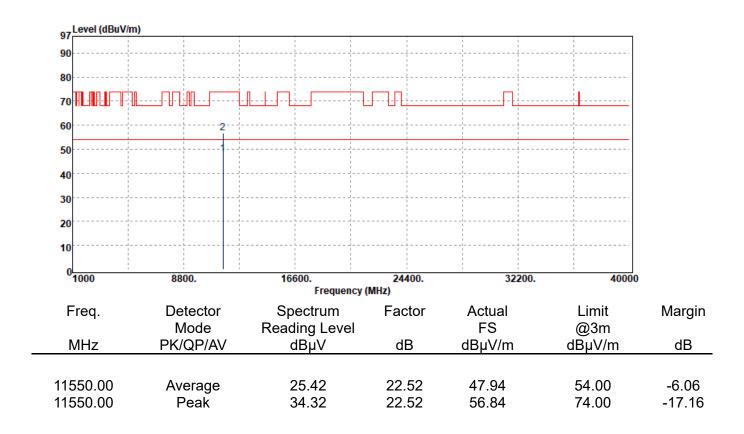
Report Number :ER-2021-40063 Test Site :SAC III Chamber

Operation Mode :802.11ac80 Test Date :2021-04-23

Test Frequency :5775 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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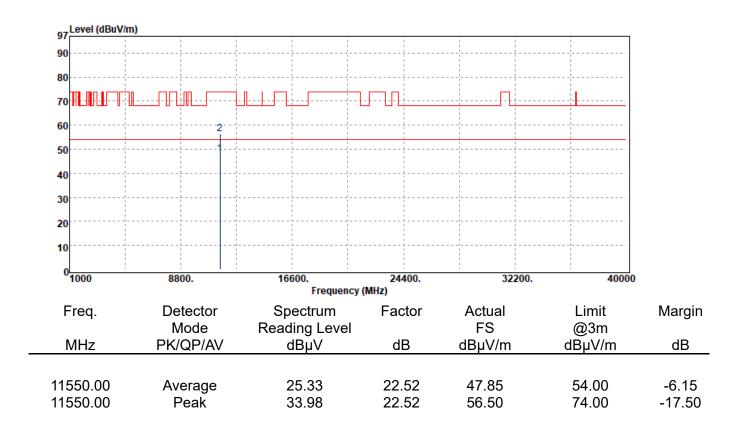
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-23 :802.11ac80

Test Frequency :5775 MHz Temp./Humi. :24.5/65

Test Mode :Tx CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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Band edge falling to restricted band 11.7.3

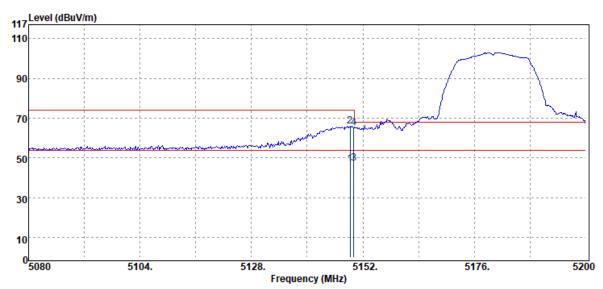
Report Number **Test Site** :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a Test Date :2021-04-21

Test Frequency :5180 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane :Ricky Chen Engineer



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
					<u> </u>	
5149.24	Average	38.63	8.52	47.15	54.00	-6.85
5149.24	Peak	57.45	8.52	65.97	74.00	-8.03
5150.00	Average	38.77	8.53	47.30	54.00	-6.70
5150.00	Peak	56.71	8.53	65.24	74.00	-8.76

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Report Number Test Site :ER-2021-40063

Operation Mode :802.11a

Test Frequency :5180 MHz

Test Mode :Bandedge CH Low

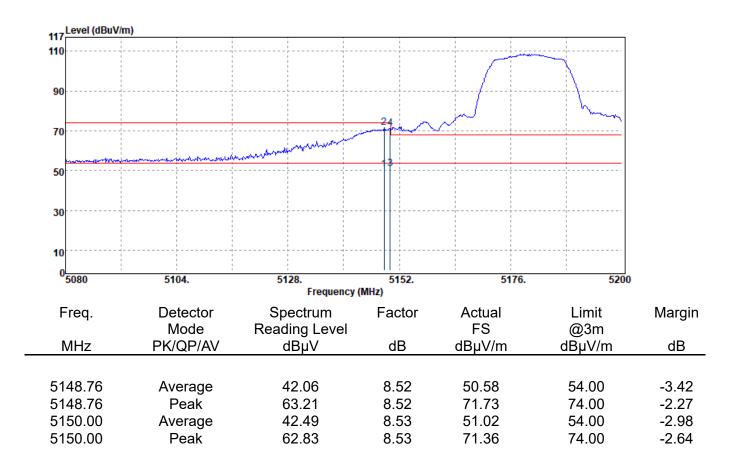
EUT Pol :E2 Plane :SAC III Chamber

Test Date :2021-04-21

Temp./Humi. :23.6/60

Antenna Pol. :HORIZONTAL

Engineer :Ricky Chen



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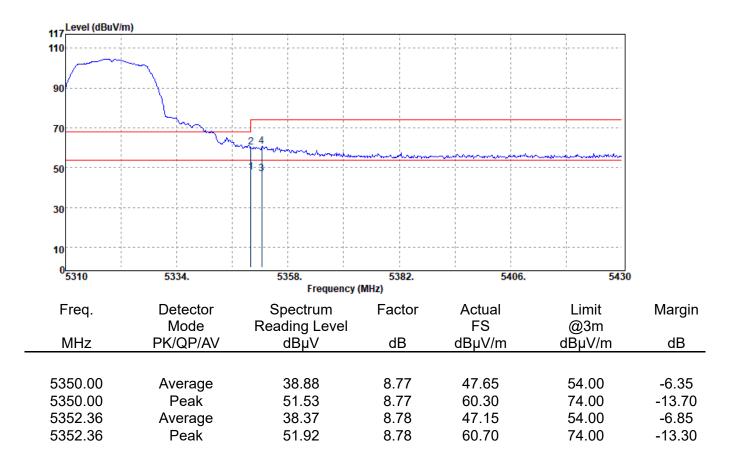
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11a

Test Frequency :5320 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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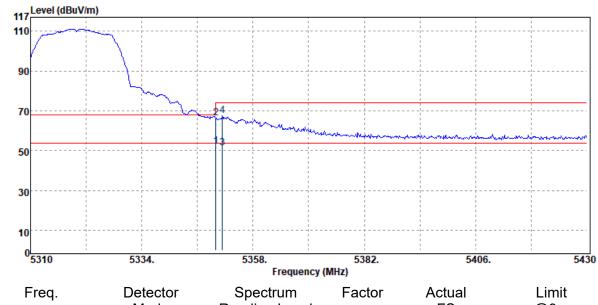
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5320 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		•		•	•	
5350.00	Average	43.32	8.77	52.09	54.00	-1.91
5350.00	Peak	57.73	8.77	66.50	74.00	-7.50
5351.40	Average	42.77	8.78	51.55	54.00	-2.45
5351.40	Peak	58.73	8.78	67.51	74.00	-6.49

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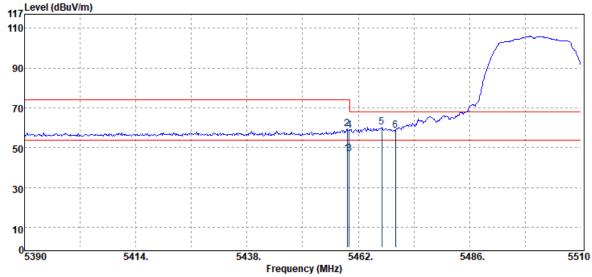
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5500 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Fre	eq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin		
M	Hz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB		
							_		
545	9.60	Average	37.37	9.63	47.00	54.00	-7.00		
545	9.60	Peak	49.74	9.63	59.37	74.00	-14.63		
546	0.00	Average	37.40	9.63	47.03	54.00	-6.97		
546	0.00	Peak	49.08	9.63	58.71	74.00	-15.29		
546	7.04	Peak	50.75	9.68	60.43	68.20	-7.77		
547	0.00	Peak	49.12	9.71	58.83	68.20	-9.37		

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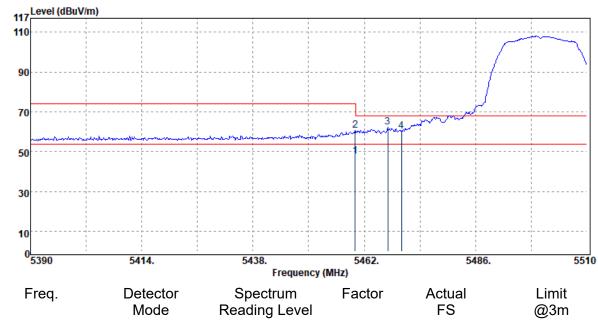
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5500 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
5460.00	Average	38.04	9.63	47.67	54.00	-6.33
5460.00	Peak	51.21	9.63	60.84	74.00	-13.16
5467.04	Peak	52.68	9.68	62.36	68.20	-5.84
5470.00	Peak	50.57	9.71	60.28	68.20	-7.92

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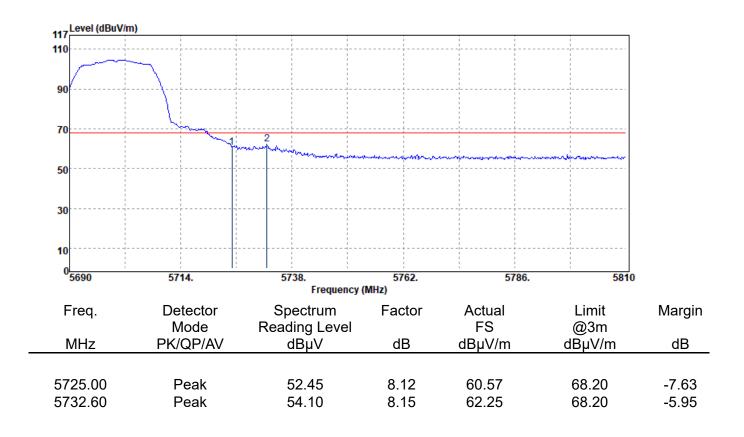
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11a

Test Frequency :5700 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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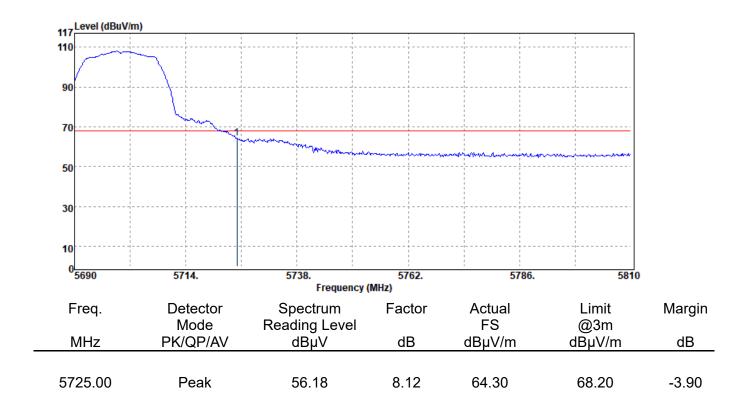
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5700 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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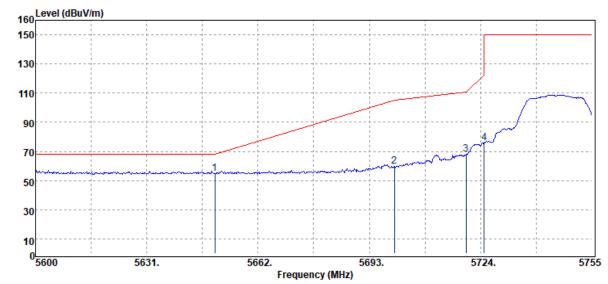
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5745 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	46.79	8.08	54.87	68.20	-13.33
5700.00	Peak	51.56	8.02	59.58	105.20	-45.62
5720.00	Peak	59.75	8.10	67.85	110.80	-42.95
5725.00	Peak	67.61	8.12	75.73	122.20	-46.47

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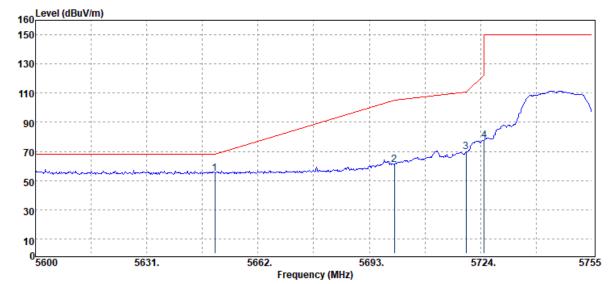
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5745 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	46.68	8.08	54.76	68.20	-13.44
5700.00	Peak	52.75	8.02	60.77	105.20	-44.43
5720.00	Peak	61.53	8.10	69.63	110.80	-41.17
5725.00	Peak	69.62	8.12	77.74	122.20	-44.46

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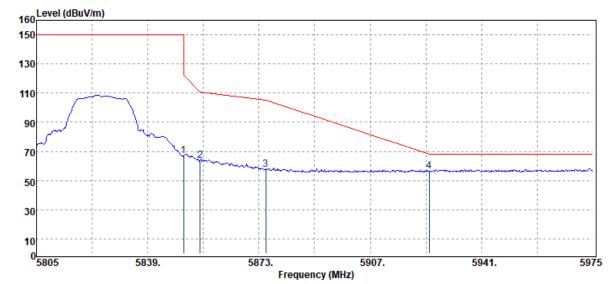
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5825 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	57.97	9.02	66.99	122.20	-55.21
5855.00	Peak	54.85	9.07	63.92	110.80	-46.88
5875.00	Peak	48.28	9.27	57.55	105.20	-47.65
5925.00	Peak	46.59	9.70	56.29	68.20	-11.91

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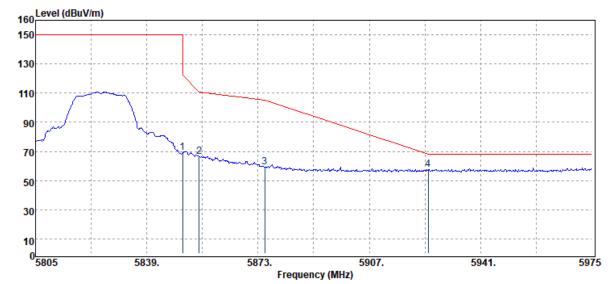
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11a **Test Date** :2021-04-21

Test Frequency :5825 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	60.13	9.02	69.15	122.20	-53.05
5855.00	Peak	57.53	9.07	66.60	110.80	-44.20
5875.00	Peak	49.77	9.27	59.04	105.20	-46.16
5925.00	Peak	47.65	9.70	57.35	68.20	-10.85

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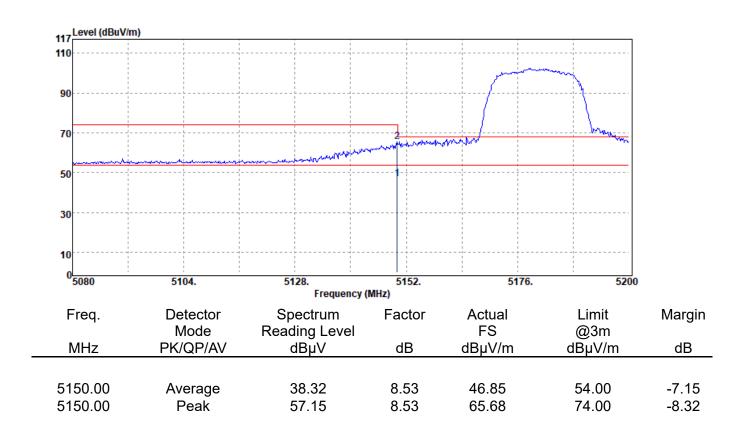
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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n20

Test Frequency :5180 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL **EUT Pol** :E2 Plane Engineer :Ricky Chen



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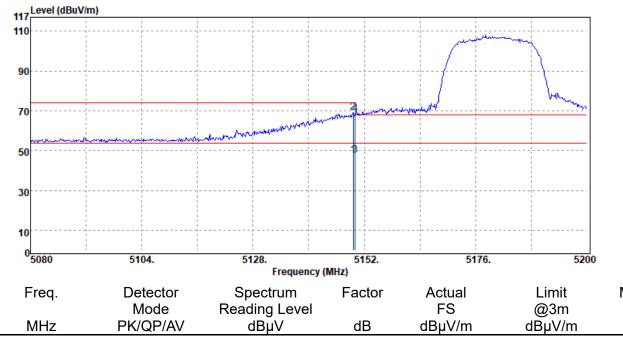
Report Number :ER-2021-40063 Test Site :SAC III Chamber

Operation Mode :802.11n20 Test Date :2021-04-21

Test Frequency :5180 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



	Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	5149.60	Average	39.23	8.53	47.76	54.00	-6.24
	5149.60	Peak	60.66	8.53	69.19	74.00	-4.81
	5150.00	Average	39.16	8.53	47.69	54.00	-6.31
	5150.00	Peak	59.77	8.53	68.30	74.00	- 5.70

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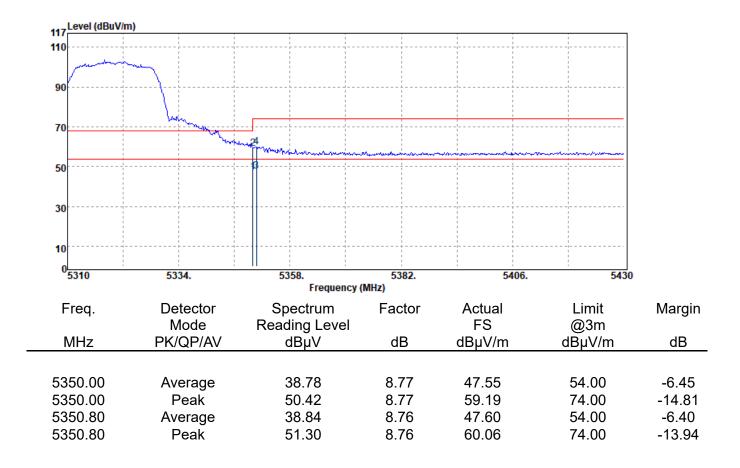
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n20

Test Frequency :5320 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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Test Mode

Report No.: ER/2021/40063

:HORIZONTAL

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Antenna Pol.

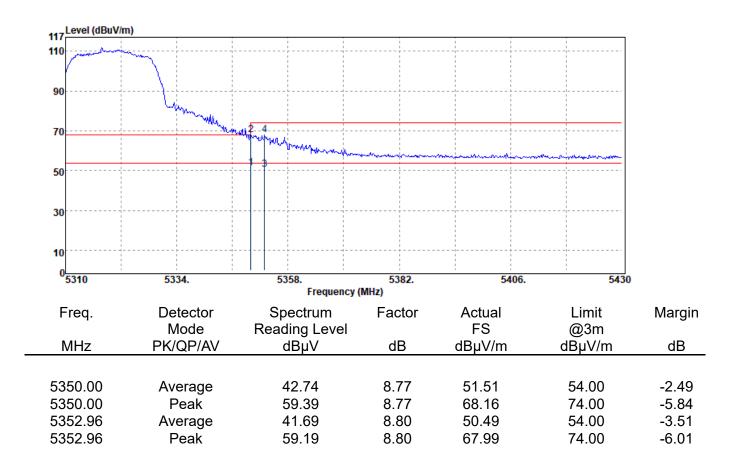
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n20

Test Frequency :5320 MHz Temp./Humi. :23.6/60

:Bandedge CH High

EUT Pol :E2 Plane Engineer :Ricky Chen



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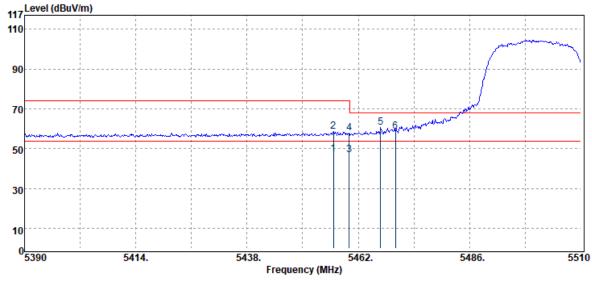
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n20

Test Frequency :5500 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
5456.60	Average	37.58	9.62	47.20	54.00	-6.80
5456.60	Peak	49.14	9.62	58.76	74.00	-15.24
5460.00	Average	37.47	9.63	47.10	54.00	-6.90
5460.00	Peak	48.34	9.63	57.97	74.00	-16.03
5466.80	Peak	50.93	9.69	60.62	68.20	-7.58
5470.00	Peak	48.90	9.71	58.61	68.20	-9.59

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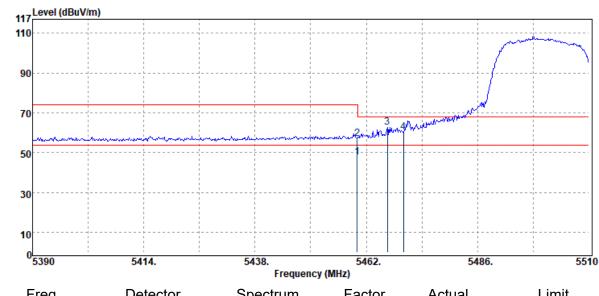
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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n20 **Test Date** :2021-04-21

Test Frequency :5500 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL **EUT Pol** :E2 Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		•		•	•	
5460.00	Average	38.07	9.63	47.70	54.00	-6.30
5460.00	Peak	47.36	9.63	56.99	74.00	-17.01
5466.56	Peak	52.94	9.69	62.63	68.20	-5.57
5470.00	Peak	50.54	9.71	60.25	68.20	-7.95

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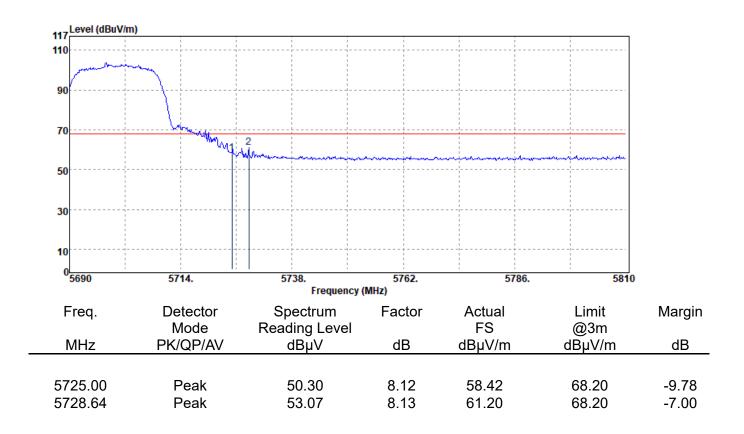
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n20

Test Frequency :5700 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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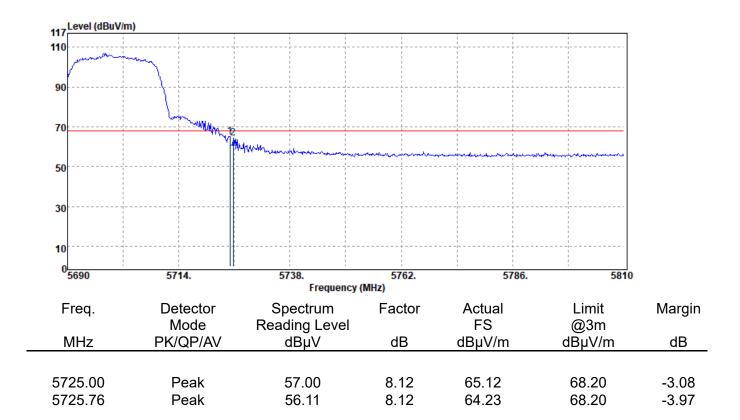
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n20

Test Frequency :5700 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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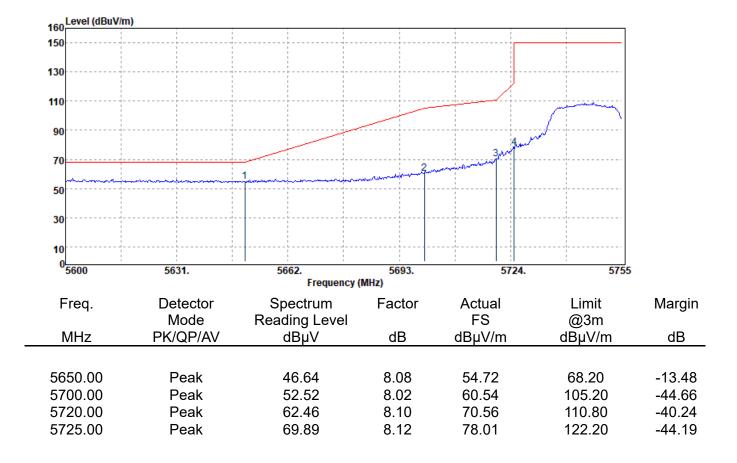
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n20

Test Frequency :5745 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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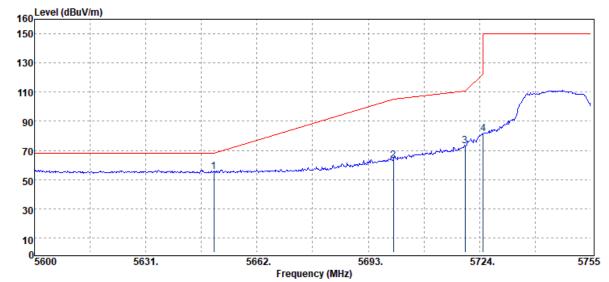
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n20 **Test Date** :2021-04-21

Test Frequency :5745 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	Peak	47.20	8.08	55.28	68.20	-12.92
5700.00	Peak	55.12	8.02	63.14	105.20	-42.06
5720.00	Peak	65.14	8.10	73.24	110.80	-37.56
5725.00	Peak	73.52	8.12	81.64	122.20	-40.56

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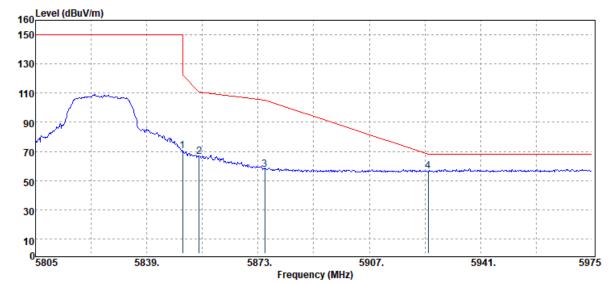
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n20 **Test Date** :2021-04-21

Test Frequency :5825 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	61.25	9.02	70.27	122.20	-51.93
5855.00	Peak	57.52	9.07	66.59	110.80	-44.21
5875.00	Peak	48.58	9.27	57.85	105.20	-47.35
5925.00	Peak	46.78	9.70	56.48	68.20	-11.72

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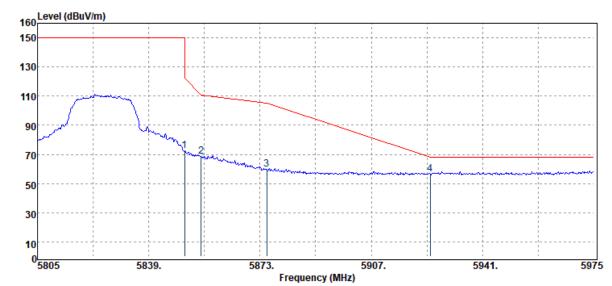
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n20 **Test Date** :2021-04-21

Test Frequency :5825 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	Peak	63.27	9.02	72.29	122.20	-49.91
5855.00	Peak	59.52	9.07	68.59	110.80	-42.21
5875.00	Peak	50.47	9.27	59.74	105.20	-45.46
5925.00	Peak	46.79	9.70	56.49	68.20	-11.71

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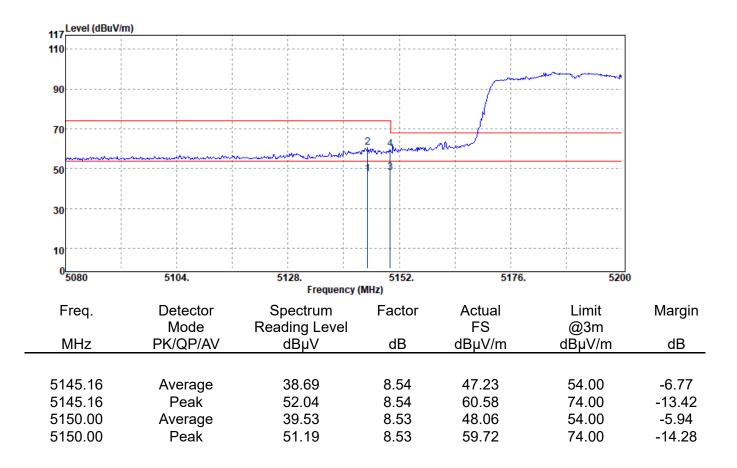
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n40

Test Frequency :5190 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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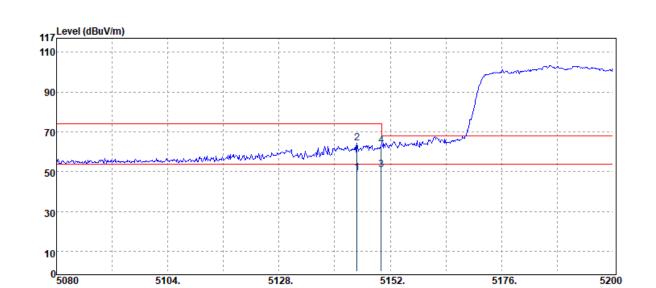
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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-21

Test Frequency :5190 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL **EUT Pol** :E2 Plane Engineer :Ricky Chen



Frequency (MHz)

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5144.80	Average	40.89	8.54	49.43	54.00	-4.57
5144.80	Peak	55.92	8.54	64.46	74.00	-9.54
5150.00	Average	42.39	8.53	50.92	54.00	-3.08
5150.00	Peak	54.82	8.53	63.35	74.00	-10.65

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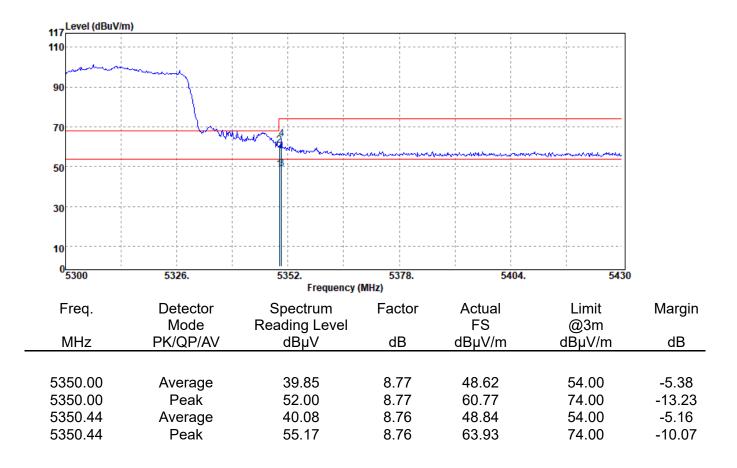
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n40

Test Frequency :5310 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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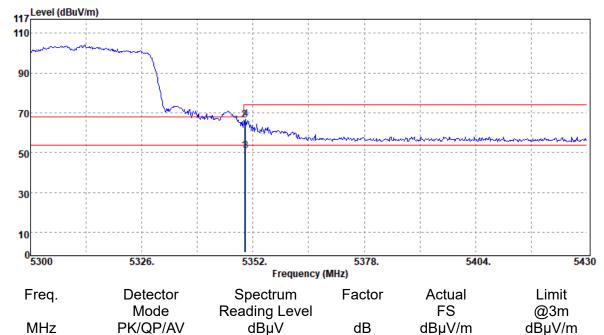
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-21

Test Frequency :5310 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	42.30	8.77	51.07	54.00	-2.93
5350.00	Peak	57.78	8.77	66.55	74.00	-7.45
5350.31	Average	42.39	8.77	51.16	54.00	-2.84
5350.31	Peak	57.92	8.77	66.69	74.00	-7.31

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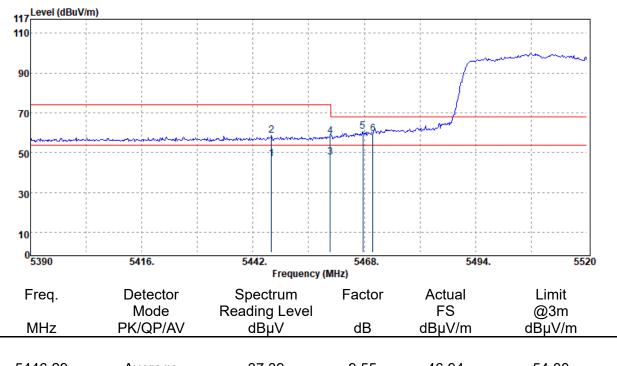
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-21

Test Frequency :5510 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5446.29	Average	37.39	9.55	46.94	54.00	-7.06
5446.29	Peak	49.31	9.55	58.86	74.00	-15.14
5460.00	Average	38.13	9.63	47.76	54.00	-6.24
5460.00	Peak	48.47	9.63	58.10	74.00	-15.90
5467.61	Peak	50.93	9.68	60.61	68.20	-7.59
5470.00	Peak	49.87	9.71	59.58	68.20	-8.62

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Test Mode

Report No.: ER/2021/40063

:HORIZONTAL

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Antenna Pol.

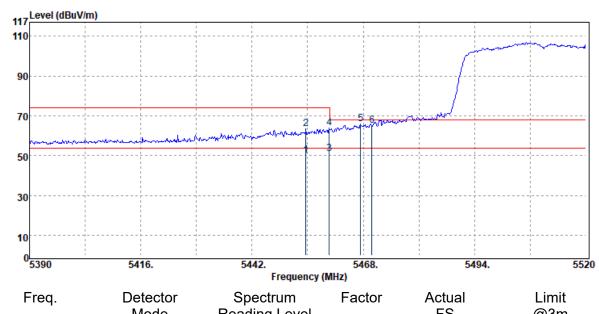
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-21

Test Frequency :5510 MHz Temp./Humi. :23.6/60

:Bandedge CH Low

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
		•		•	•	
5454.61	Average	40.46	9.60	50.06	54.00	-3.94
5454.61	Peak	53.96	9.60	63.56	74.00	-10.44
5460.00	Average	41.56	9.63	51.19	54.00	-2.81
5460.00	Peak	54.25	9.63	63.88	74.00	-10.12
5467.35	Peak	56.12	9.68	65.80	68.20	-2.40
5470.00	Peak	55.55	9.71	65.26	68.20	-2.94

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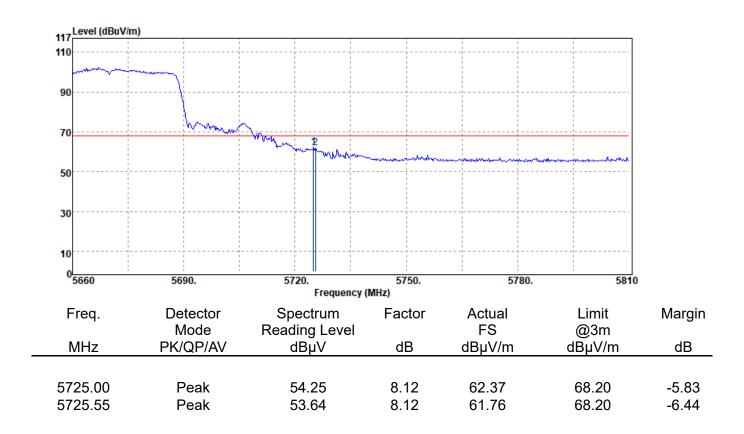
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n40

Test Frequency :5670 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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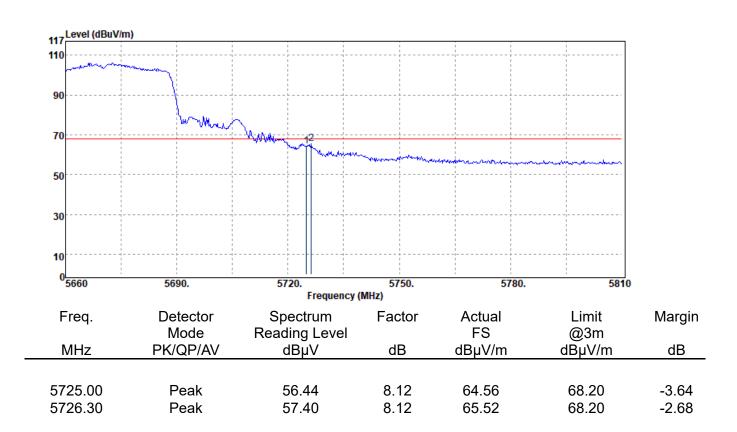
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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11n40

Test Frequency :5670 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL **EUT Pol** :E2 Plane Engineer :Ricky Chen



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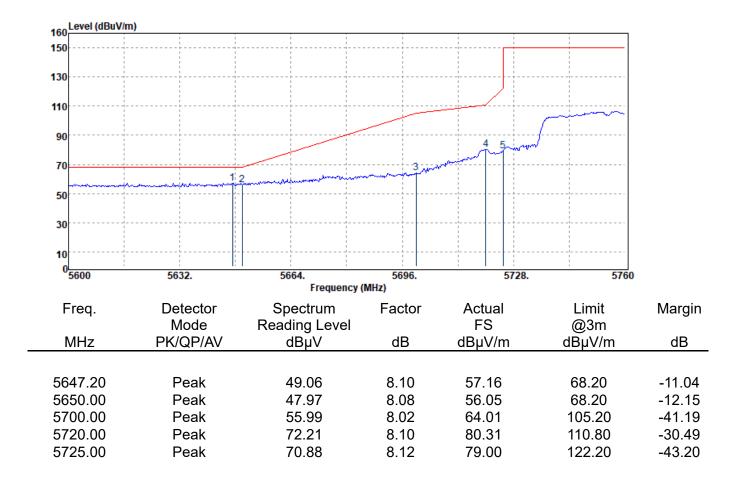
Report Number :ER-2021-40063 Test Site :SAC III Chamber

Operation Mode :802.11n40 Test Date :2021-04-21

Test Frequency :5755 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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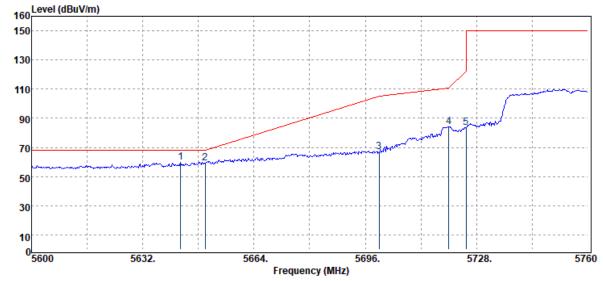
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-21

Test Frequency :5755 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5642.88 5650.00	Peak Peak	51.74 51.34	8.13 8.08	59.87 59.42	68.20 68.20	-8.33 -8.78
5700.00	Peak	58.92	8.02	66.94	105.20	-38.26
5720.00	Peak	75.99	8.10	84.09	110.80	-26.71
5725.00	Peak	75.24	8.12	83.36	122.20	-38.84

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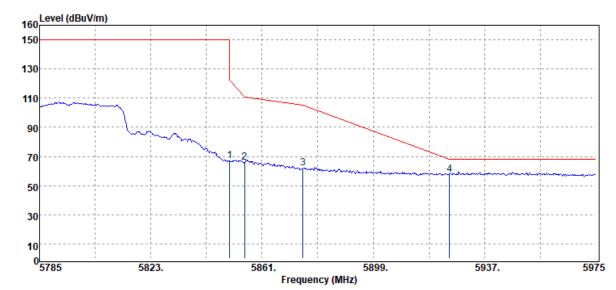
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-21

Test Frequency :5795 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	57.91	9.02	66.93	122.20	-55.27
5855.00	Peak	56.94	9.07	66.01	110.80	-44.79
5875.00	Peak	52.50	9.27	61.77	105.20	-43.43
5925.00	Peak	47.86	9.70	57.56	68.20	-10.64

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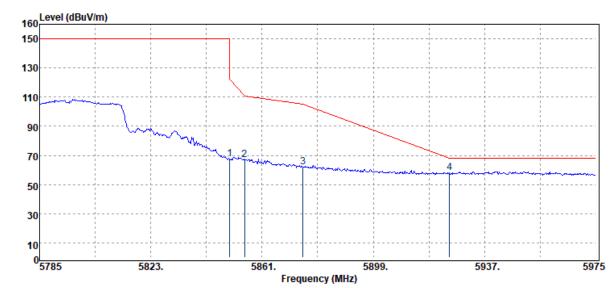
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Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode :802.11n40 **Test Date** :2021-04-21

Test Frequency :5795 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :HORIZONTAL **EUT Pol** :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	58.38	9.02	67.40	122.20	-54.80
5855.00	Peak	58.09	9.07	67.16	110.80	-43.64
5875.00	Peak	52.76	9.27	62.03	105.20	-43.17
5925.00	Peak	48.65	9.70	58.35	68.20	-9.85

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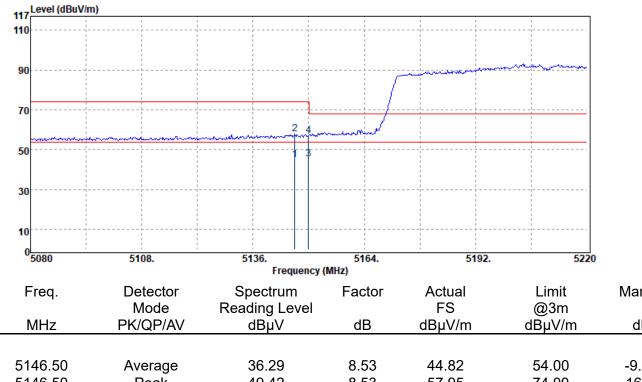
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5210 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5146.50	Average	36.29	8.53	44.82	54.00	-9.18
5146.50	Peak	49.42	8.53	57.95	74.00	-16.05
5150.00	Average	36.68	8.53	45.21	54.00	-8.79
5150.00	Peak	48.52	8.53	57.05	74.00	-16.95

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Test Mode

5150.00

Peak

Report No.: ER/2021/40063

:HORIZONTAL

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Antenna Pol.

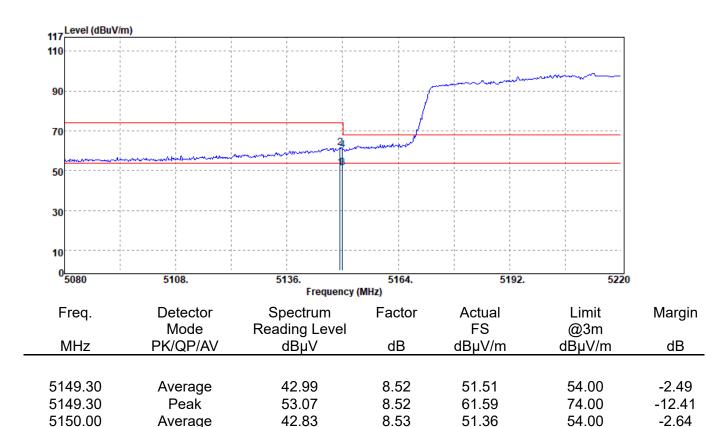
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5210 MHz Temp./Humi. :23.6/60

:Bandedge CH Low

EUT Pol :E2 Plane Engineer :Ricky Chen



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8.53

60.48

74.00

-13.52



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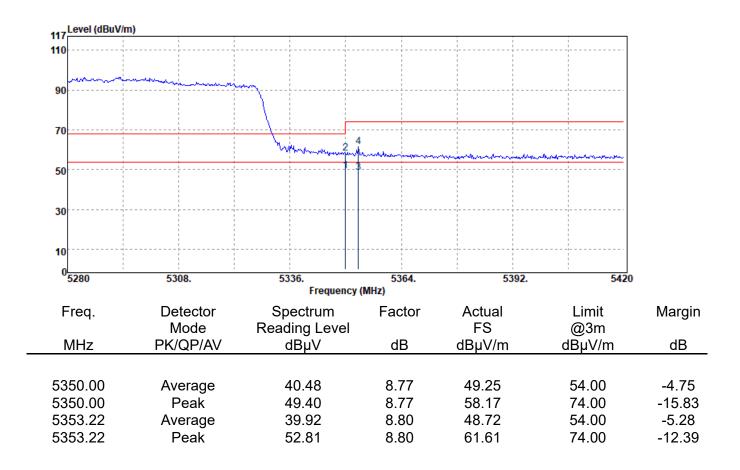
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5290 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH High Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



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Test Mode

Report No.: ER/2021/40063

:HORIZONTAL

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Antenna Pol.

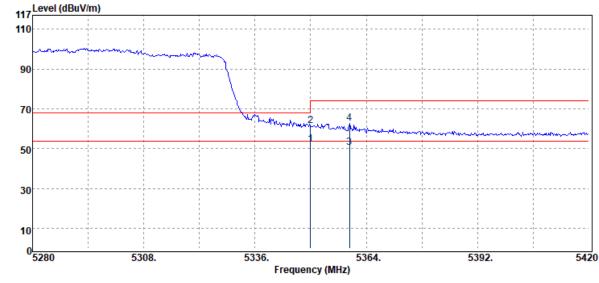
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5290 MHz Temp./Humi. :23.6/60

:Bandedge CH High

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	43.28	8.77	52.05	54.00	-1.95
5350.00	Peak	52.84	8.77	61.61	74.00	-12.39
5359.80	Average	41.53	8.89	50.42	54.00	-3.58
5359.80	Peak	53.77	8.89	62.66	74.00	-11.34

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:E2 Plane

EUT Pol

Report No.: ER/2021/40063

:Ricky Chen

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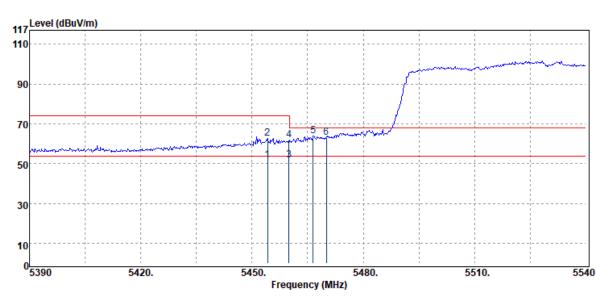
Engineer

Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5530 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
	·	,		•	'	
5454.20	Average	42.12	9.59	51.71	54.00	-2.29
5454.20	Peak	53.35	9.59	62.94	74.00	-11.06
5460.00	Average	42.05	9.63	51.68	54.00	-2.32
5460.00	Peak	52.18	9.63	61.81	74.00	-12.19
5466.50	Peak	54.39	9.69	64.08	68.20	-4.12
5470.00	Peak	53.59	9.71	63.30	68.20	-4.90

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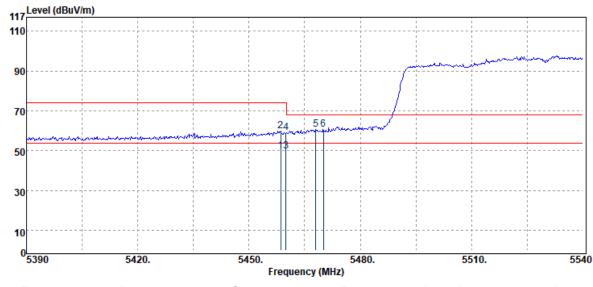
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5530 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
Average	40.20	9.62	49.82	54.00	-4.18
Peak	50.39	9.62	60.01	74.00	-13.99
Average	40.08	9.63	49.71	54.00	-4.29
Peak	49.35	9.63	58.98	74.00	-15.02
Peak	51.05	9.69	60.74	68.20	-7.46
Peak	50.95	9.71	60.66	68.20	-7.54
	Mode PK/QP/AV Average Peak Average Peak Peak Peak	Mode PK/QP/AV Reading Level dBµV Average 40.20 Peak 50.39 Average 40.08 Peak 49.35 Peak 51.05	Mode PK/QP/AV Reading Level dBμV dB Average Peak 40.20 9.62 Average Peak 50.39 9.62 Average Average 40.08 9.63 Peak 49.35 9.63 Peak 51.05 9.69	Mode PK/QP/AV Reading Level dB μV FS dB μV/m Average Peak 40.20 9.62 49.82 Peak 50.39 9.62 60.01 Average 40.08 9.63 49.71 Peak 49.35 9.63 58.98 Peak 51.05 9.69 60.74	Mode PK/QP/AV Reading Level dB μV FS dB μV/m @3m dB μV/m Average 40.20 9.62 49.82 54.00 Peak 50.39 9.62 60.01 74.00 Average 40.08 9.63 49.71 54.00 Peak 49.35 9.63 58.98 74.00 Peak 51.05 9.69 60.74 68.20

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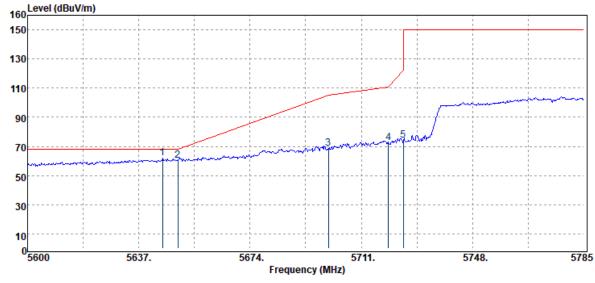
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5775 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5644.96	Peak	53.87	8.12	61.99	68.20	-6.21
5650.00	Peak	52.00	8.08	60.08	68.20	-8.12
5700.00	Peak	60.70	8.02	68.72	105.20	-36.48
5720.00	Peak	64.33	8.10	72.43	110.80	-38.37
5725.00	Peak	65.92	8.12	74.04	122.20	-48.16

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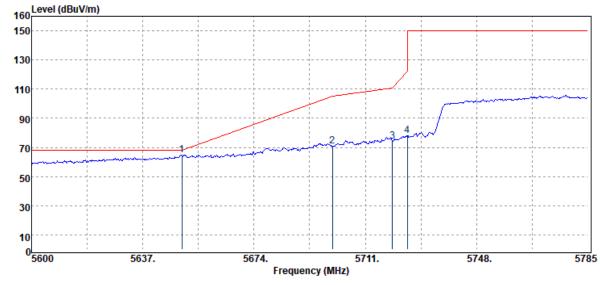
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5775 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	56.69	8.08	64.77	68.20	-3.43
5700.00	Peak	62.88	8.02	70.90	105.20	-34.30
5720.00	Peak	66.12	8.10	74.22	110.80	-36.58
5725.00	Peak	69.89	8.12	78.01	122.20	-44.19

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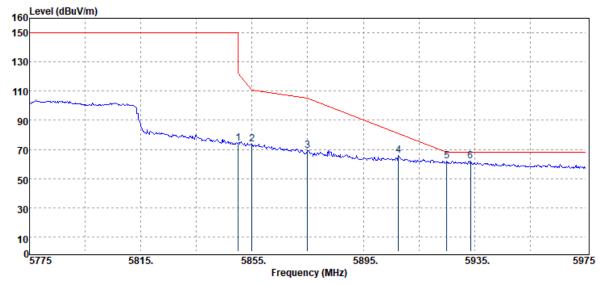
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5775 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :VERTICAL

EUT Pol :E2 Plane Engineer :Ricky Chen



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
5850.00	Peak	65.22	9.02	74.24	122.20	-47.96
5855.00	Peak	64.47	9.07	73.54	110.80	-37.26
5875.00	Peak	59.88	9.27	69.15	105.20	-36.05
5907.60	Peak	56.25	9.59	65.84	81.08	-15.24
5925.00	Peak	52.08	9.70	61.78	68.20	-6.42
5933.60	Peak	52.25	9.77	62.02	68.20	-6.18

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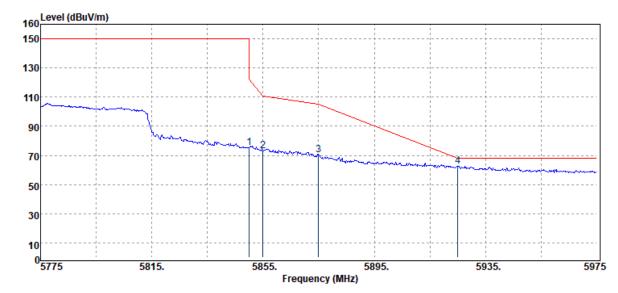
Report Number Test Site :SAC III Chamber :ER-2021-40063

Operation Mode Test Date :2021-04-21 :802.11ac80

Test Frequency :5775 MHz Temp./Humi. :23.6/60

Test Mode :Bandedge CH Low Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Ricky Chen



dB
16.99
37.86
34.65
5.53

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12 TRANSMISSION IN THE ABSENCE OF DATA

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 ANTENNA REQUIREMENT

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.

13.2 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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