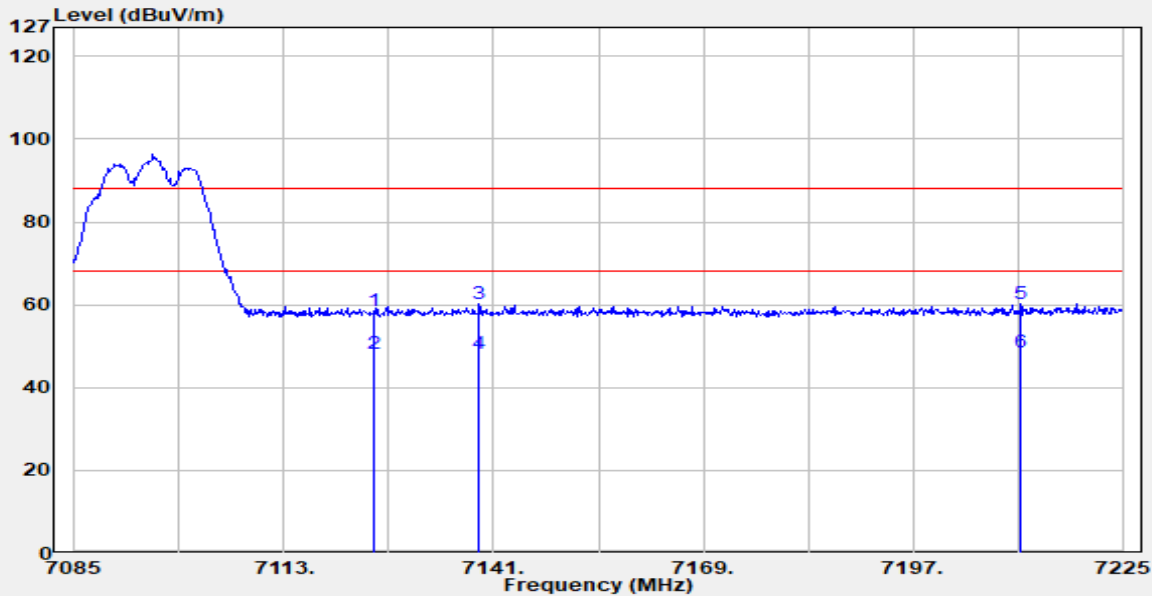


Report Number :TERF2304001051ER
 Operation Mode :802.11a
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



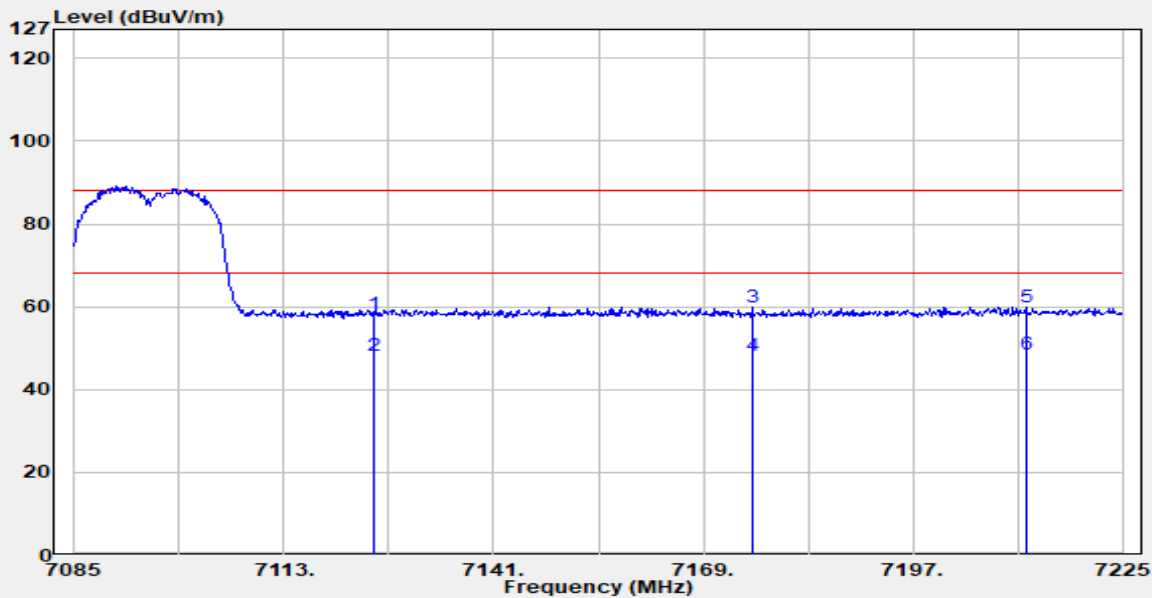
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.73	6.90	58.63	88.20	-29.57
7125.000	Average	41.39	6.90	48.29	68.20	-19.91
7139.040	Peak	53.18	6.93	60.11	88.20	-28.09
7139.040	Average	41.32	6.93	48.25	68.20	-19.95
7211.420	Peak	53.21	7.06	60.27	88.20	-27.93
7211.420	Average	41.46	7.06	48.52	68.20	-19.68

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax20 RU FULL
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



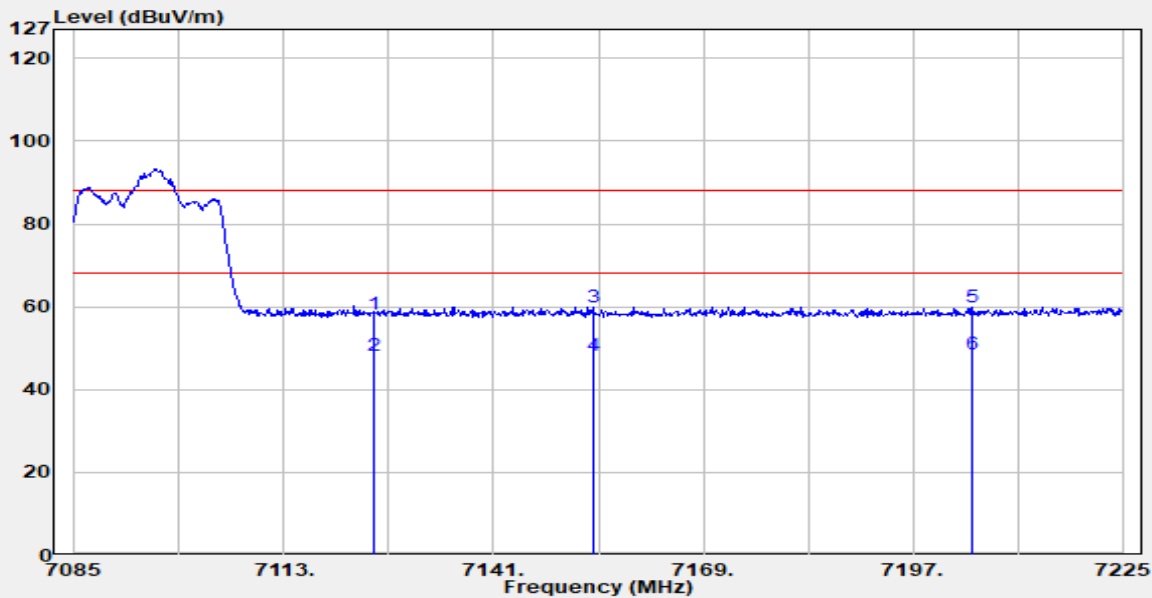
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.31	6.90	58.21	88.20	-29.99
7125.000	Average	41.39	6.90	48.29	68.20	-19.91
7175.580	Peak	52.94	6.95	59.89	88.20	-28.31
7175.580	Average	41.28	6.95	48.23	68.20	-19.97
7212.120	Peak	52.84	7.07	59.91	88.20	-28.29
7212.120	Average	41.48	7.07	48.55	68.20	-19.65

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax20 RU FULL
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



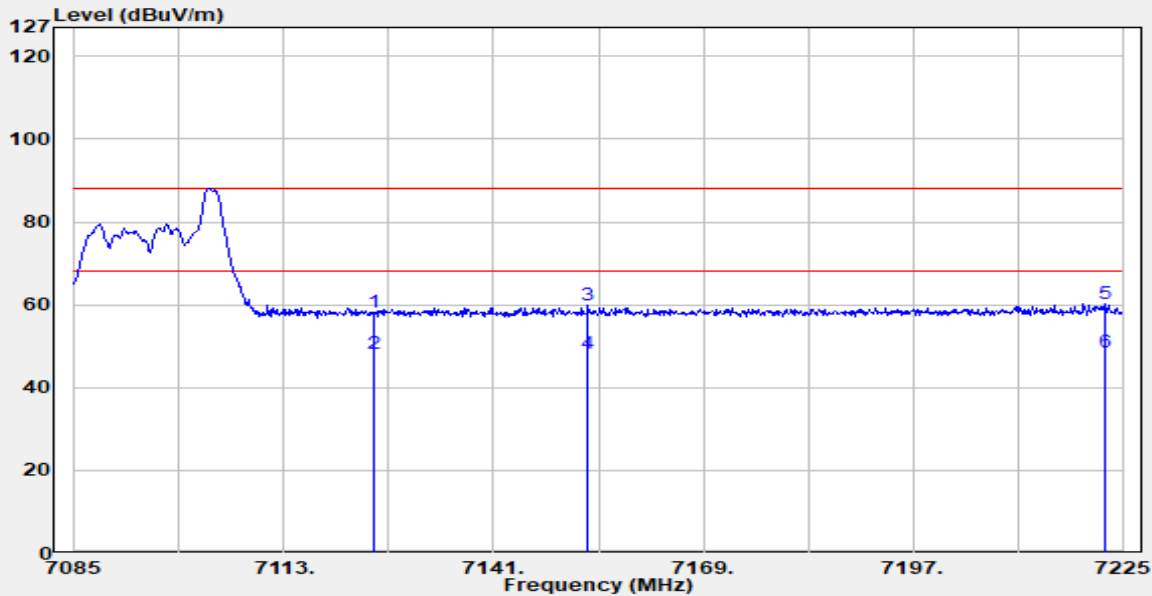
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.13	6.90	58.03	88.20	-30.17
7125.000	Average	41.39	6.90	48.29	68.20	-19.91
7154.300	Peak	53.07	6.95	60.03	88.20	-28.17
7154.300	Average	41.25	6.95	48.20	68.20	-20.00
7204.980	Peak	52.81	6.99	59.81	88.20	-28.39
7204.980	Average	41.38	6.99	48.37	68.20	-19.83

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.33	6.90	58.23	88.20	-29.97
7125.000	Average	41.33	6.90	48.23	68.20	-19.97
7153.600	Peak	52.84	6.95	59.80	88.20	-28.40
7153.600	Average	41.28	6.95	48.23	68.20	-19.97
7222.620	Peak	53.01	7.18	60.19	88.20	-28.01
7222.620	Average	41.48	7.18	48.66	68.20	-19.54

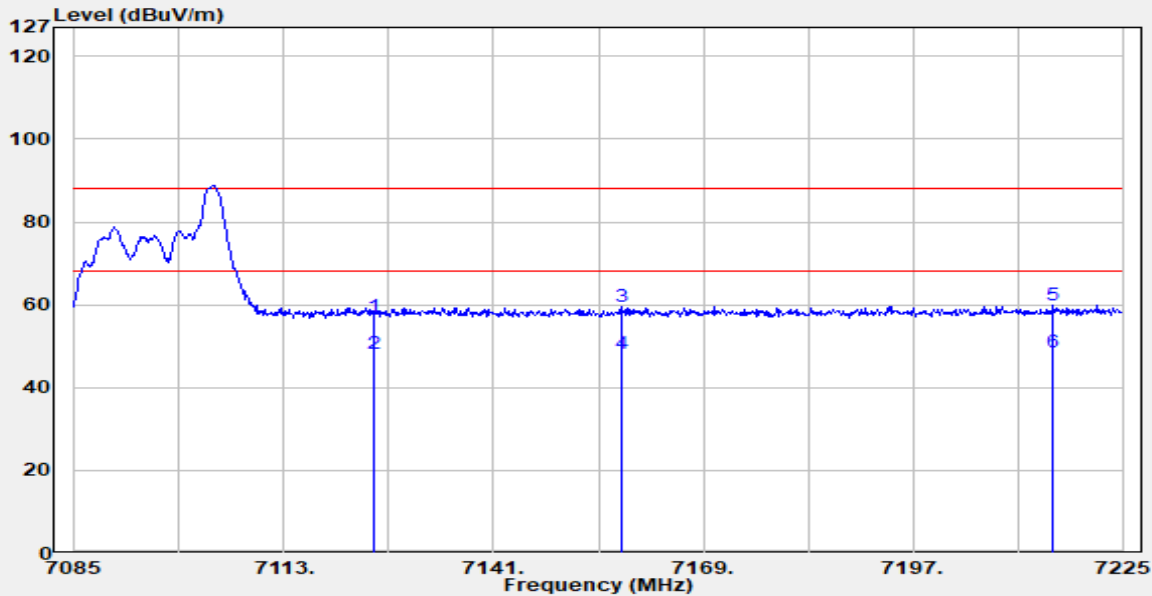
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Report Number :TERF2304001051ER
 Operation Mode :802.11ax20 RU 26/8
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	50.28	6.90	57.18	88.20	-31.02
7125.000	Average	41.33	6.90	48.23	68.20	-19.97
7158.080	Peak	52.73	6.95	59.68	88.20	-28.52
7158.080	Average	41.26	6.95	48.21	68.20	-19.99
7215.760	Peak	52.89	7.10	60.00	88.20	-28.20
7215.760	Average	41.40	7.10	48.50	68.20	-19.70

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

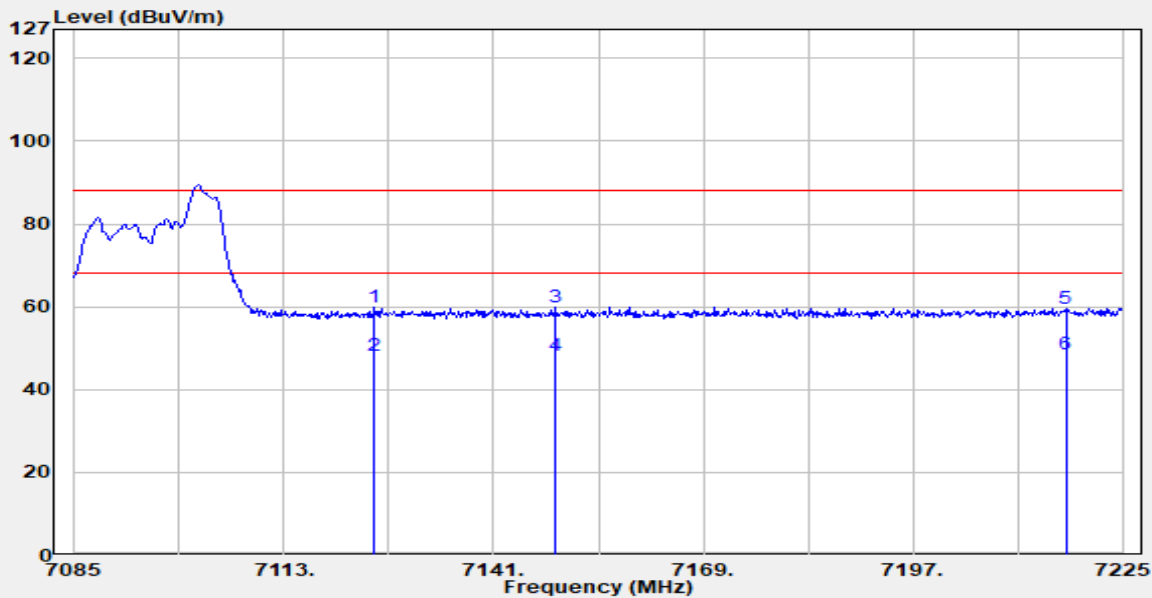
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2304001051ER
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



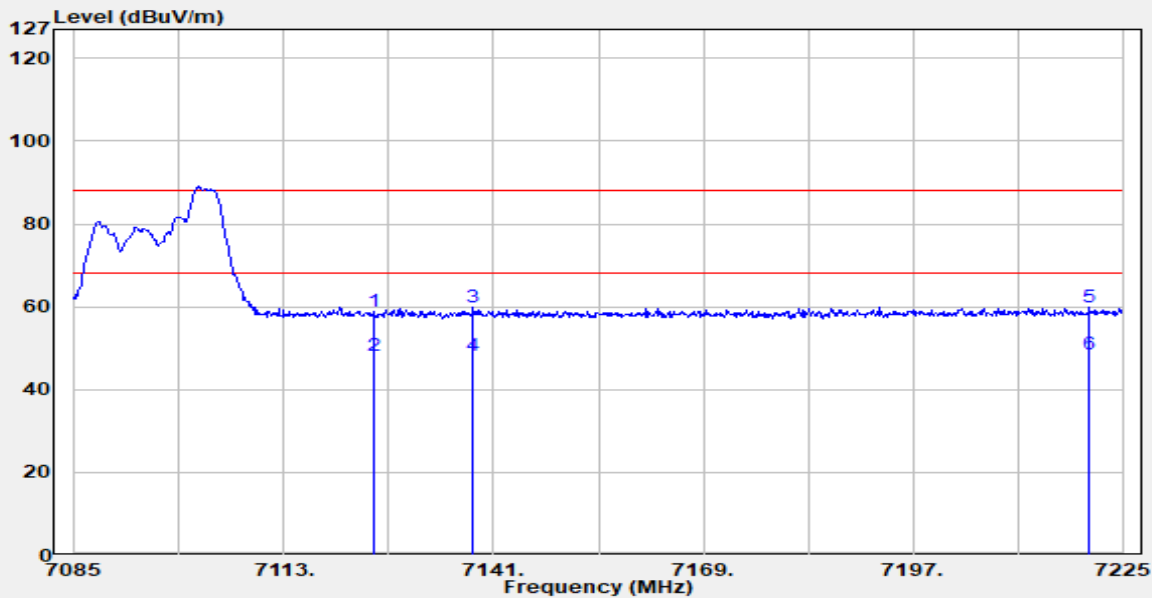
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	52.84	6.90	59.74	88.20	-28.46
7125.000	Average	41.33	6.90	48.23	68.20	-19.97
7149.260	Peak	52.95	6.95	59.90	88.20	-28.30
7149.260	Average	41.28	6.95	48.23	68.20	-19.97
7217.440	Peak	52.57	7.12	59.69	88.20	-28.51
7217.440	Average	41.46	7.12	48.58	68.20	-19.62

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax20 RU 52/40
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



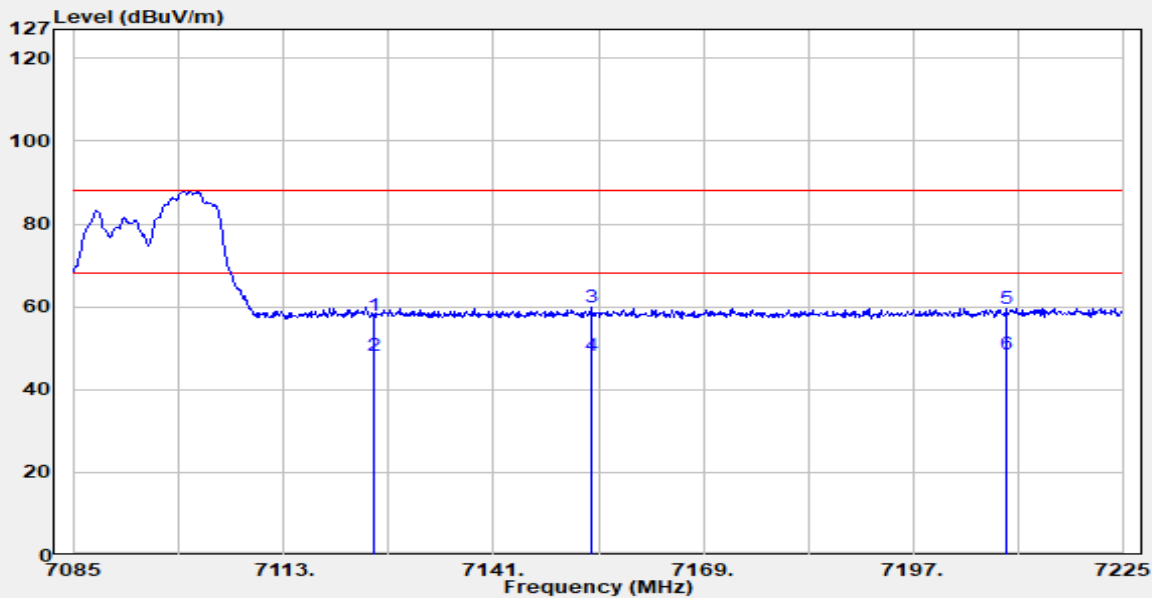
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.79	6.90	58.70	88.20	-29.50
7125.000	Average	41.36	6.90	48.26	68.20	-19.94
7138.200	Peak	53.08	6.93	60.01	88.20	-28.19
7138.200	Average	41.38	6.93	48.31	68.20	-19.89
7220.660	Peak	52.86	7.15	60.02	88.20	-28.18
7220.660	Average	41.41	7.15	48.56	68.20	-19.64

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax20 RU 106/54
 Test Frequency :7095 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-09-14
 Temp./Humi. :24.4°C/61%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



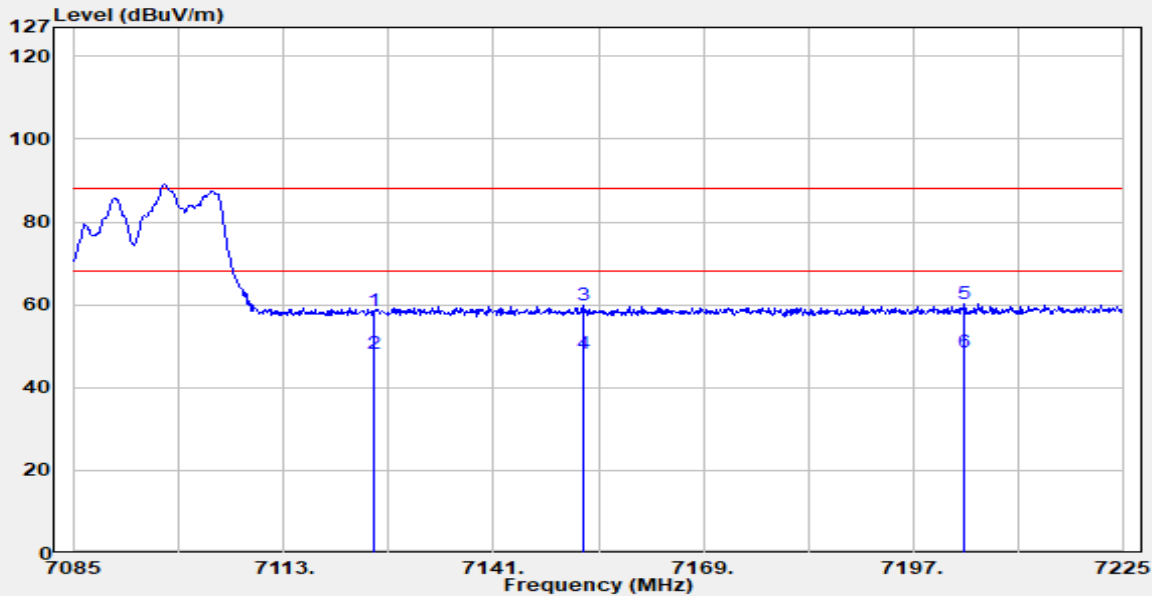
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	50.95	6.90	57.85	88.20	-30.35
7125.000	Average	41.38	6.90	48.28	68.20	-19.92
7154.020	Peak	52.85	6.95	59.81	88.20	-28.39
7154.020	Average	41.25	6.95	48.20	68.20	-20.00
7209.600	Peak	52.67	7.04	59.71	88.20	-28.49
7209.600	Average	41.48	7.04	48.52	68.20	-19.68

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Report Number :TERF2304001051ER
Operation Mode :802.11ax20 RU 106/54
Test Frequency :7095 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-09-14
Temp./Humi. :24.4°C/61%
Antenna Pol. :Horizontal
Engineer :Ricky Chen



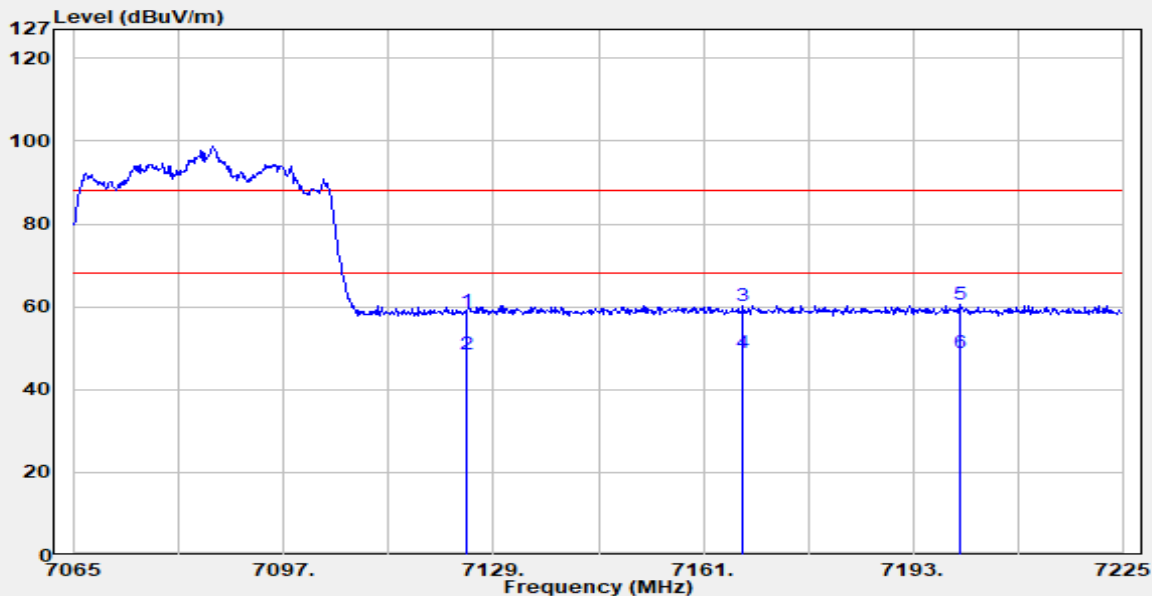
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.59	6.90	58.49	88.20	-29.71
7125.000	Average	41.33	6.90	48.23	68.20	-19.97
7153.040	Peak	52.92	6.95	59.87	88.20	-28.33
7153.040	Average	41.23	6.95	48.18	68.20	-20.02
7203.860	Peak	53.32	6.98	60.30	88.20	-27.90
7203.860	Average	41.40	6.98	48.38	68.20	-19.82

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax40 RU FULL
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.52	7.22	58.74	88.20	-29.46
7125.000	Average	41.47	7.22	48.69	68.20	-19.51
7167.080	Peak	52.64	7.55	60.19	88.20	-28.01
7167.080	Average	41.43	7.55	48.98	68.20	-19.22
7200.360	Peak	53.11	7.51	60.61	88.20	-27.59
7200.360	Average	41.52	7.51	49.03	68.20	-19.17

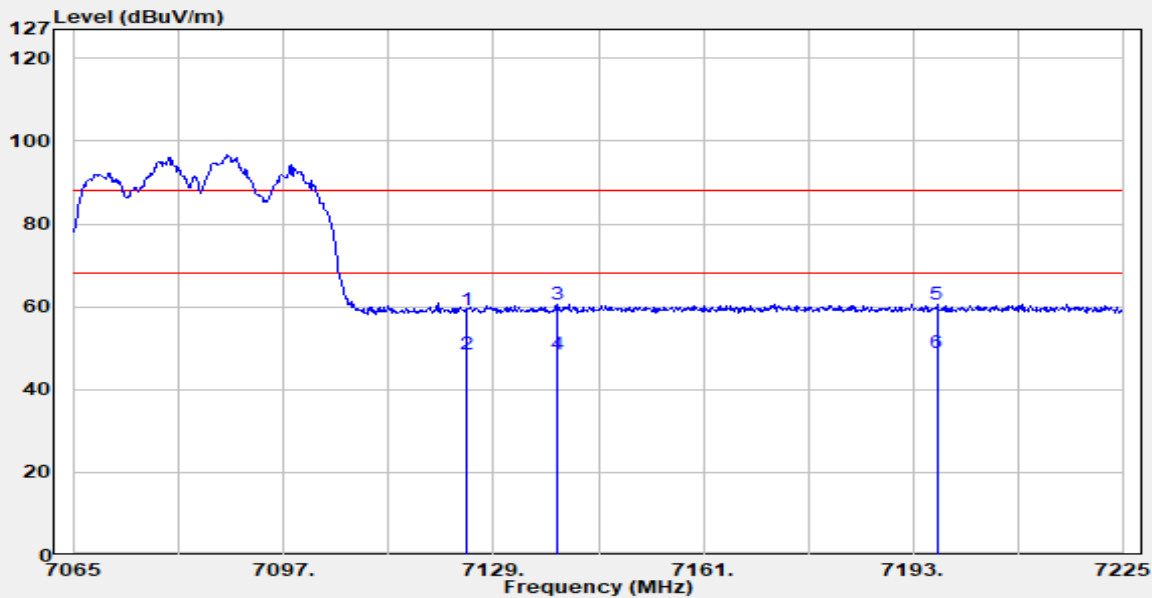
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Report Number :TERF2304001051ER
 Operation Mode :802.11ax40 RU FULL
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



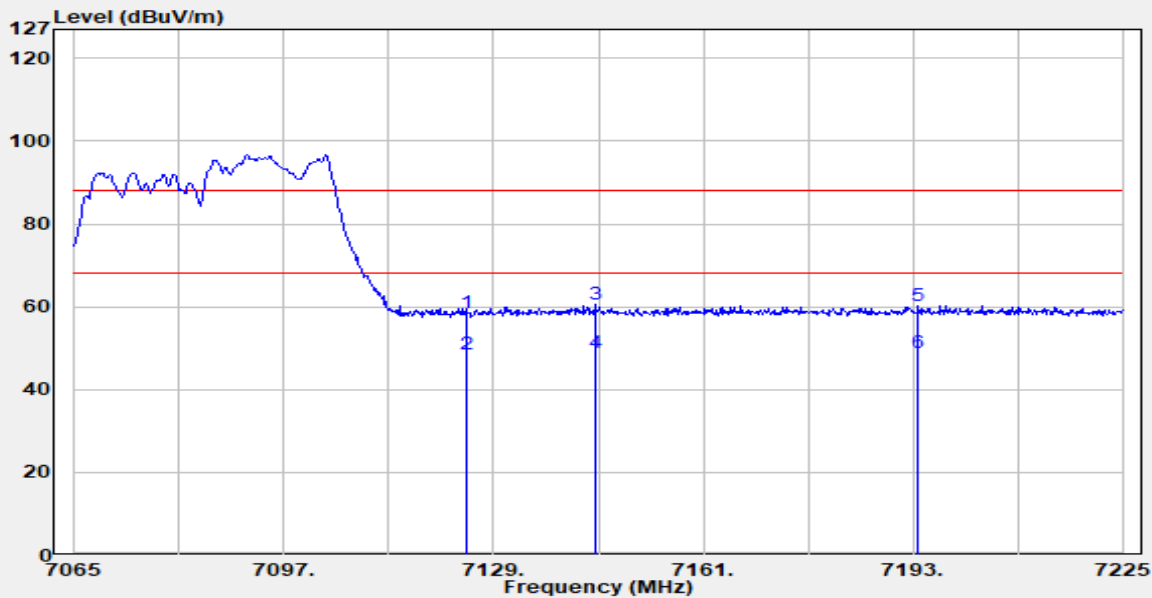
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.98	7.22	59.20	88.20	-29.00
7125.000	Average	41.33	7.22	48.55	68.20	-19.65
7138.600	Peak	53.13	7.41	60.54	88.20	-27.66
7138.600	Average	41.28	7.41	48.69	68.20	-19.51
7196.680	Peak	53.02	7.51	60.54	88.20	-27.66
7196.680	Average	41.39	7.51	48.90	68.20	-19.30

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



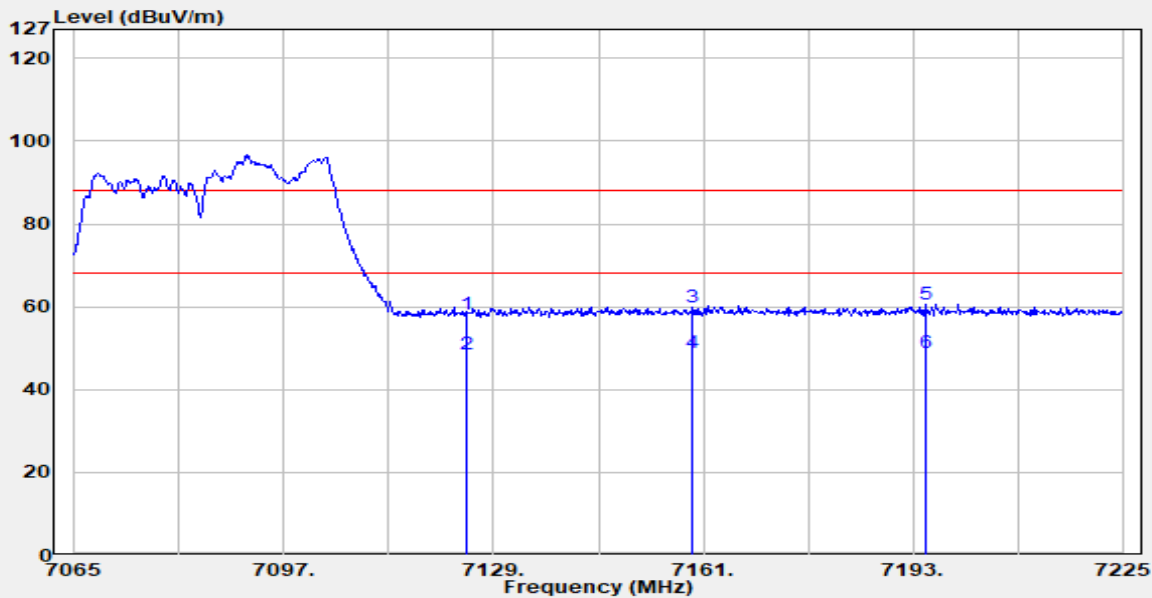
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.17	7.22	58.39	88.20	-29.81
7125.000	Average	41.38	7.22	48.60	68.20	-19.60
7144.520	Peak	53.16	7.49	60.65	88.20	-27.55
7144.520	Average	41.32	7.49	48.81	68.20	-19.39
7193.800	Peak	52.85	7.52	60.37	88.20	-27.83
7193.800	Average	41.36	7.52	48.88	68.20	-19.32

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax40 RU 242/62
 Test Frequency :7085 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



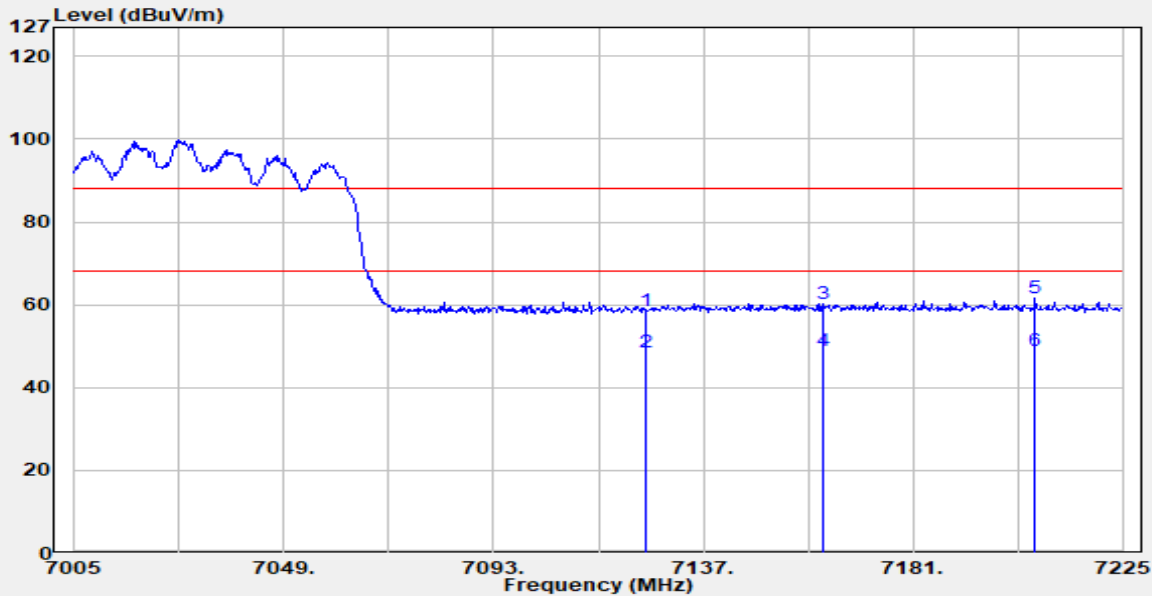
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	50.82	7.22	58.04	88.20	-30.16
7125.000	Average	41.37	7.22	48.59	68.20	-19.61
7159.400	Peak	52.33	7.56	59.89	88.20	-28.31
7159.400	Average	41.33	7.56	48.89	68.20	-19.31
7194.920	Peak	53.13	7.52	60.65	88.20	-27.55
7194.920	Average	41.38	7.52	48.90	68.20	-19.30

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax80 RU FULL
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Vertical
 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
7125.000	Peak	51.35	7.22	58.57	88.20	-29.63
7125.000	Average	41.42	7.22	48.64	68.20	-19.56
7162.080	Peak	52.77	7.56	60.33	88.20	-27.87
7162.080	Average	41.39	7.56	48.95	68.20	-19.25
7206.740	Peak	54.33	7.43	61.76	88.20	-26.44
7206.740	Average	41.46	7.43	48.89	68.20	-19.31

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

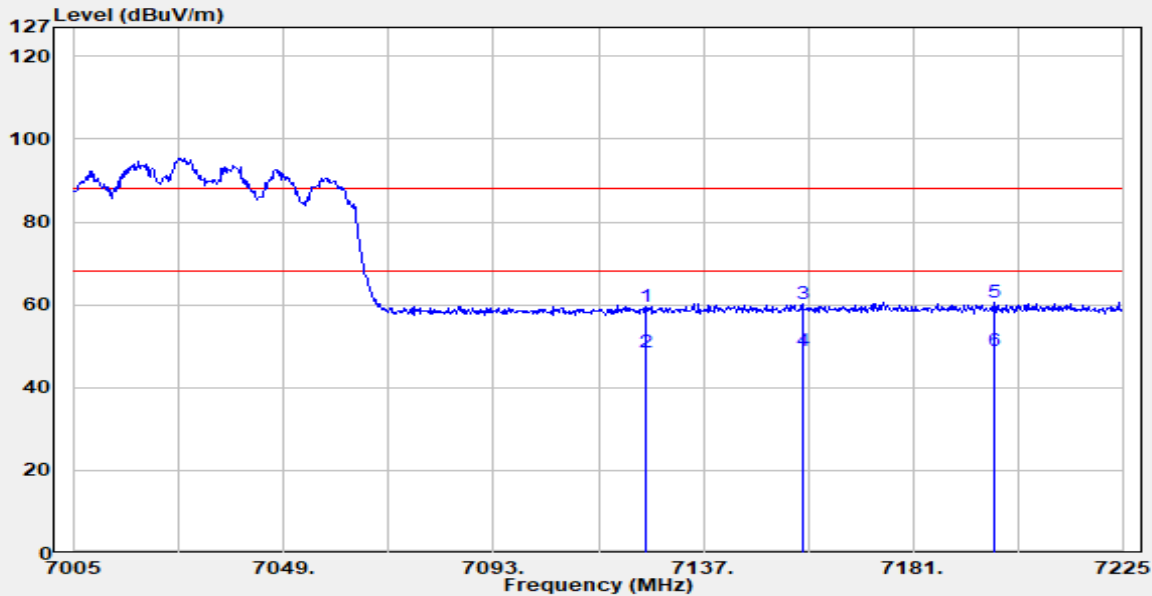
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2304001051ER
 Operation Mode :802.11ax80 RU FULL
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



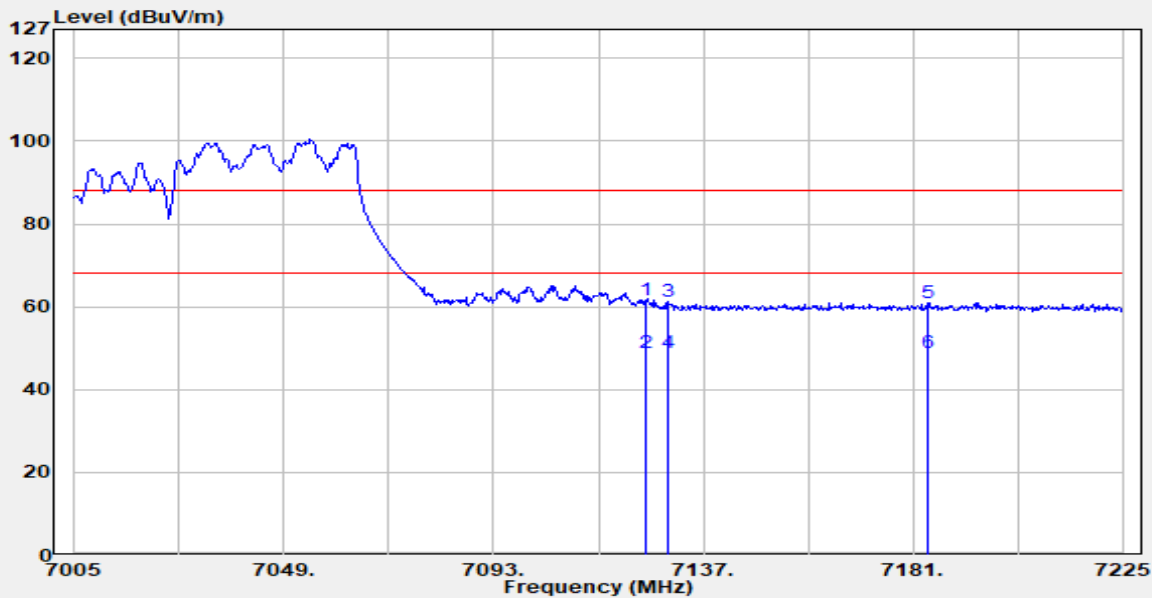
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	52.28	7.22	59.50	88.20	-28.70
7125.000	Average	41.38	7.22	48.60	68.20	-19.60
7157.900	Peak	52.61	7.56	60.17	88.20	-28.03
7157.900	Average	41.33	7.56	48.89	68.20	-19.31
7197.940	Peak	53.23	7.51	60.74	88.20	-27.46
7197.940	Average	41.39	7.51	48.90	68.20	-19.30

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax80 RU 484/66
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



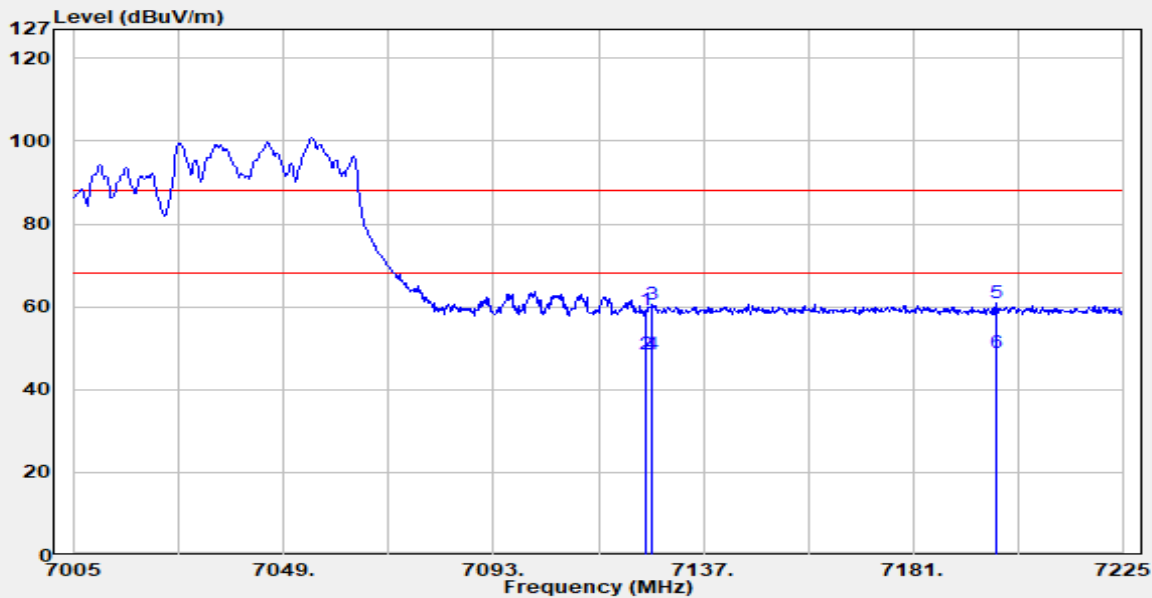
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	54.45	7.22	61.67	88.20	-26.53
7125.000	Average	41.49	7.22	48.71	68.20	-19.49
7129.740	Peak	53.97	7.29	61.26	88.20	-26.94
7129.740	Average	41.46	7.29	48.75	68.20	-19.45
7184.300	Peak	53.48	7.53	61.01	88.20	-27.19
7184.300	Average	41.41	7.53	48.94	68.20	-19.26

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax80 RU 484/66
 Test Frequency :7025 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



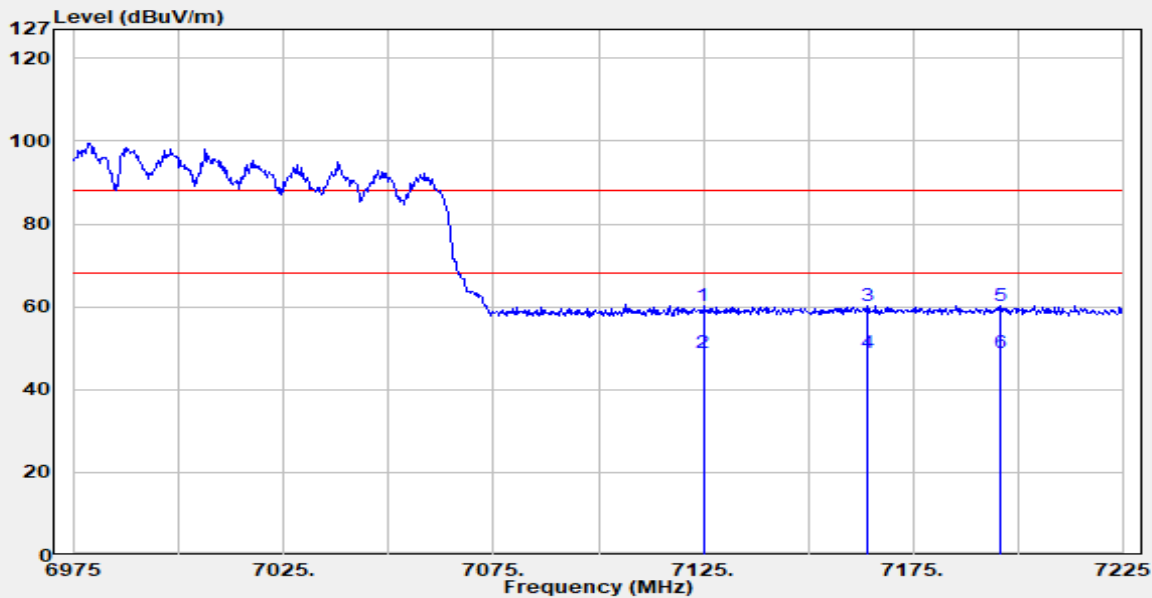
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	51.81	7.22	59.03	88.20	-29.17
7125.000	Average	41.46	7.22	48.68	68.20	-19.52
7126.220	Peak	53.26	7.24	60.49	88.20	-27.71
7126.220	Average	41.42	7.24	48.66	68.20	-19.54
7198.380	Peak	53.27	7.51	60.78	88.20	-27.42
7198.380	Average	41.41	7.51	48.92	68.20	-19.28

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax160 RU FULL
 Test Frequency :6985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



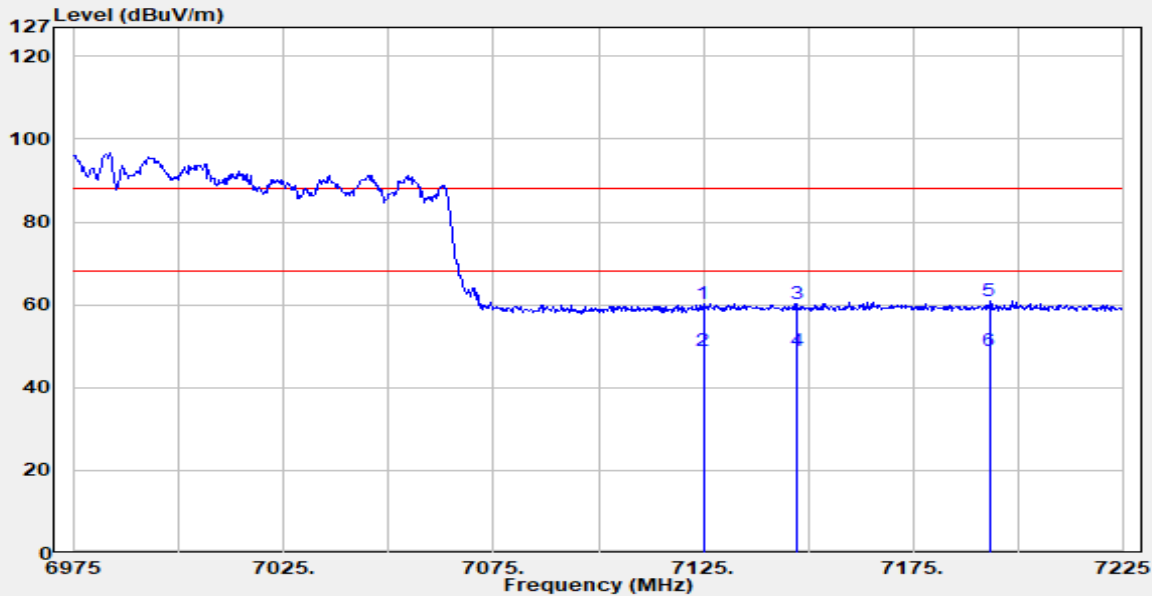
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	52.87	7.22	60.09	88.20	-28.11
7125.000	Average	41.48	7.22	48.70	68.20	-19.50
7164.000	Peak	52.60	7.55	60.16	88.20	-28.04
7164.000	Average	41.35	7.55	48.90	68.20	-19.30
7195.750	Peak	52.78	7.52	60.30	88.20	-27.90
7195.750	Average	41.46	7.52	48.98	68.20	-19.22

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Report Number :TERF2304001051ER
Operation Mode :802.11ax160 RU FULL
Test Frequency :6985 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 2
Test Date :2023-08-07
Temp./Humi. :26.1°C/68%
Antenna Pol. :Horizontal
Engineer :Ricky Chen



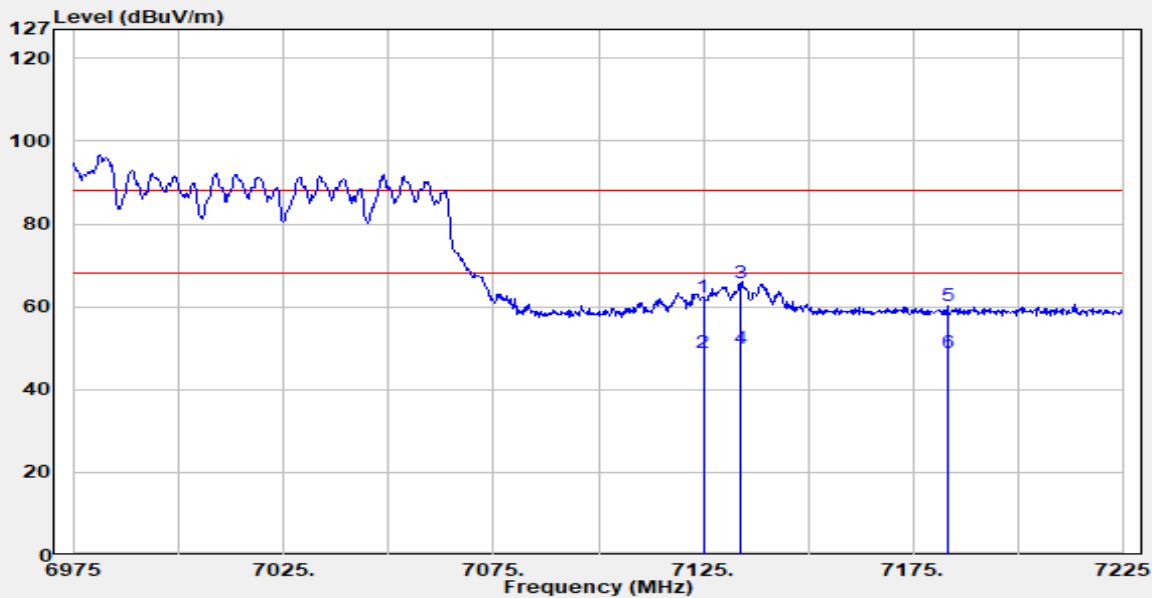
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	52.84	7.22	60.06	88.20	-28.14
7125.000	Average	41.52	7.22	48.74	68.20	-19.46
7147.250	Peak	52.85	7.53	60.39	88.20	-27.81
7147.250	Average	41.46	7.53	48.99	68.20	-19.21
7193.250	Peak	53.46	7.52	60.97	88.20	-27.23
7193.250	Average	41.42	7.52	48.94	68.20	-19.26

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax160 RU 996/67
 Test Frequency :6985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



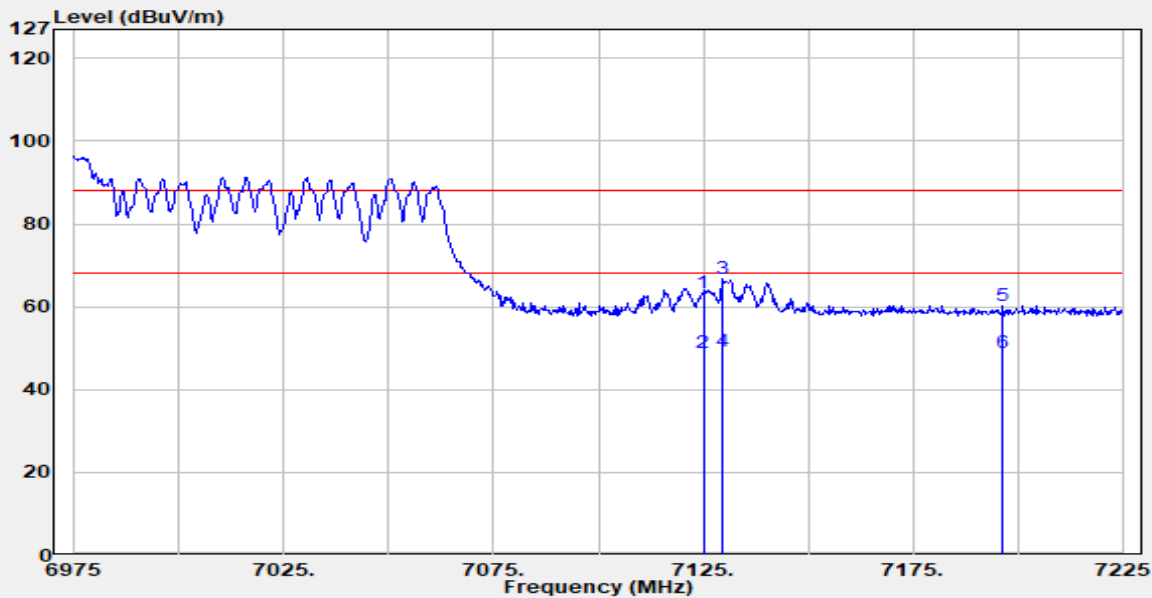
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	55.17	7.22	62.39	88.20	-25.81
7125.000	Average	41.66	7.22	48.88	68.20	-19.32
7133.750	Peak	58.52	7.34	65.86	88.20	-22.34
7133.750	Average	42.46	7.34	49.80	68.20	-18.40
7183.250	Peak	52.77	7.53	60.30	88.20	-27.90
7183.250	Average	41.39	7.53	48.92	68.20	-19.28

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax160 RU 996/67
 Test Frequency :6985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Horizontal
 Engineer :Ricky Chen



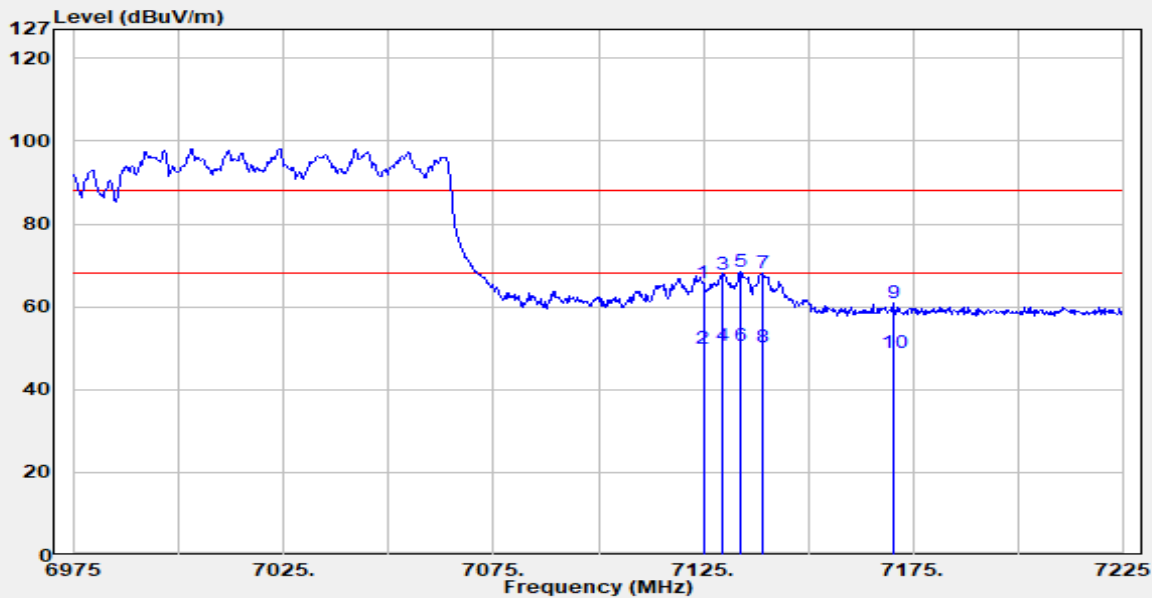
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	56.28	7.22	63.50	88.20	-24.70
7125.000	Average	41.53	7.22	48.75	68.20	-19.45
7129.750	Peak	59.41	7.29	66.70	88.20	-21.50
7129.750	Average	42.08	7.29	49.37	68.20	-18.83
7196.500	Peak	52.85	7.51	60.37	88.20	-27.83
7196.500	Average	41.32	7.51	48.83	68.20	-19.37

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax160 RU 996/S67
 Test Frequency :6985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Vertical
 Engineer :Ricky Chen



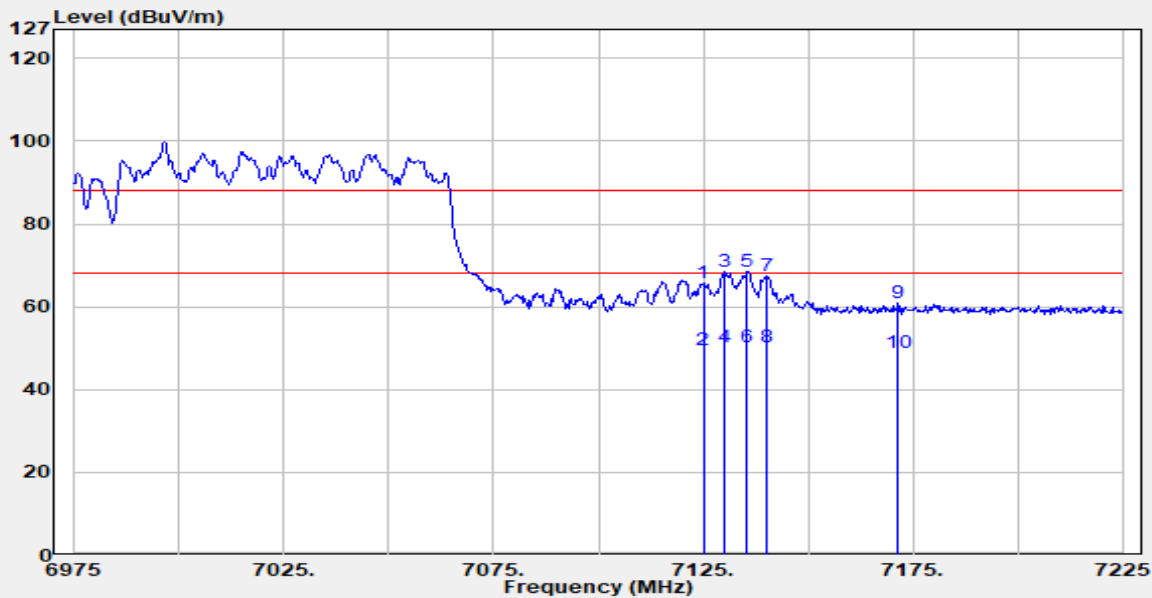
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Peak	58.35	7.22	65.57	88.20	-22.63
7125.000	Average	42.59	7.22	49.81	68.20	-18.39
7129.750	Peak	60.53	7.29	67.82	88.20	-20.38
7129.750	Average	43.21	7.29	50.50	68.20	-17.70
7133.750	Peak	61.19	7.34	68.53	88.20	-19.67
7133.750	Average	43.39	7.34	50.73	68.20	-17.47
7139.000	Peak	60.79	7.42	68.21	88.20	-19.99
7139.000	Average	42.86	7.42	50.28	68.20	-17.92
7170.250	Peak	53.23	7.55	60.77	88.20	-27.43
7170.250	Average	41.36	7.55	48.91	68.20	-19.29

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Report Number :TERF2304001051ER
 Operation Mode :802.11ax160 RU 996/S67
 Test Frequency :6985 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 2
 Test Date :2023-08-07
 Temp./Humi. :26.1°C/68%
 Antenna Pol. :Horizontal
 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
7125.000	Peak	58.51	7.22	65.73	88.20	-22.47
7125.000	Average	42.35	7.22	49.57	68.20	-18.63
7130.250	Peak	61.22	7.29	68.51	88.20	-19.69
7130.250	Average	42.96	7.29	50.25	68.20	-17.95
7135.500	Peak	61.02	7.37	68.38	88.20	-19.82
7135.500	Average	42.90	7.37	50.27	68.20	-17.93
7140.000	Peak	60.06	7.43	67.50	88.20	-20.70
7140.000	Average	42.72	7.43	50.15	68.20	-18.05
7171.500	Peak	53.42	7.54	60.97	88.20	-27.23
7171.500	Average	41.42	7.54	48.96	68.20	-19.24

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11 CONTENTION BASED PROTOCOL

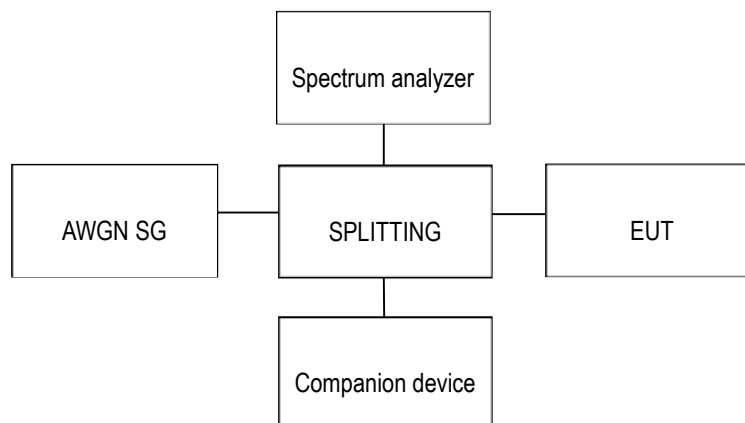
11.1 Standard Applicable

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty

11.2 Test Setup



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11.3 Measurement Procedure

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency.
The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer, Ensure that the attenuator provides enough attenuation to not overload the signal analyzer receiver.
4. Using an AWGN signal source a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
5. Set the AWGN signal power to an extremely low level (more than 20 dB below -62 dBm threshold). Connect the AWGN signal source, via splitter, to the signal analyzer and the EUT
6. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting
7. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
8. The EUT does not support channel puncturing function.

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9. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 4, choose a different center frequency for the AWGN signal and repeat the process(as figure1)

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

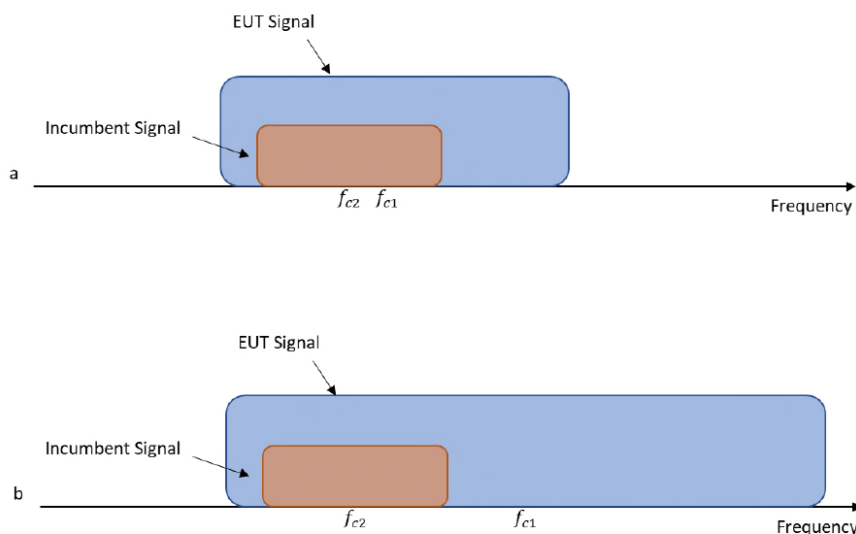


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

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11.4 Measurement Result

11.4.1 CBP Detection

Contention Based Protocol																
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Detection Trials (1=Detection, 0= No Detection)										Detection Probability (%)	Limit (%)
					1	2	3	4	5	6	7	8	9	10		
802.11ax HE20	5	6135	6135	-76.145	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE160	5	6185	6110	-75.095	1	1	1	1	1	1	1	1	1	1	100	90
			6185	-71.165	1	1	1	1	1	1	1	1	1	1	100	90
			6260	-76.035	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	6	6455	6455	-75.022	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE160	6	6505	6430	-74.012	1	1	1	1	1	1	1	1	1	1	100	90
			6505	-69.102	1	1	1	1	1	1	1	1	1	1	100	90
			6580	-73.122	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	7	6695	6695	-76.200	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE160	7	6665	6590	-74.070	1	1	1	1	1	1	1	1	1	1	100	90
			6665	-70.070	1	1	1	1	1	1	1	1	1	1	100	90
			6740	-76.170	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE20	8	7015	7015	-77.087	1	1	1	1	1	1	1	1	1	1	100	90
802.11ax HE160	8	6985	6910	-75.167	1	1	1	1	1	1	1	1	1	1	100	90
			6985	-70.107	1	1	1	1	1	1	0	1	1	1	90	90
			7060	-74.177	1	1	1	1	1	1	1	1	1	1	100	90

Note : Detection Level of AWGN Interference :-62+min Gain

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11.4.2 CBP_Threshold_Level

Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	5	6135	6135	-75.640	0.505	-76.145	-62	Ceased
			6135	-76.640	0.505	-77.145	-62	Minimal
			6135	-78.640	0.505	-79.145	-62	Normal
802.11ax HE160	5	6185	6110	-74.590	0.505	-75.095	-62	Ceased
			6110	-75.590	0.505	-76.095	-62	Minimal
			6110	-78.590	0.505	-79.095	-62	Normal
			6185	-70.660	0.505	-71.165	-62	Ceased
			6185	-71.660	0.505	-72.165	-62	Minimal
			6185	-72.660	0.505	-73.165	-62	Normal
			6260	-75.530	0.505	-76.035	-62	Ceased
			6260	-76.530	0.505	-77.035	-62	Minimal
			6260	-78.530	0.505	-79.035	-62	Normal

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Contention Based Protocol Threshold Level Verify								
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	6	6455	6455	-73.600	1.422	-75.022	-62	Ceased
			6455	-74.600	1.422	-76.022	-62	Minimal
			6455	-75.600	1.422	-77.022	-62	Normal
802.11ax HE160	6	6505	6430	-72.590	1.422	-74.012	-62	Ceased
			6430	-73.590	1.422	-75.012	-62	Minimal
			6430	-74.590	1.422	-76.012	-62	Normal
			6505	-67.680	1.422	-69.102	-62	Ceased
			6505	-69.680	1.422	-71.102	-62	Minimal
			6505	-71.680	1.422	-73.102	-62	Normal
			6580	-71.700	1.422	-73.122	-62	Ceased
			6580	-74.700	1.422	-76.122	-62	Minimal
			6580	-77.700	1.422	-79.122	-62	Normal

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Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	7	6695	6695	-75.29	0.91	-76.200	-62	Ceased
			6695	-76.29	0.91	-77.200	-62	Minimal
			6695	-78.29	0.91	-79.200	-62	Normal
802.11ax HE160	7	6665	6590	-73.16	0.91	-74.070	-62	Ceased
			6590	-75.16	0.91	-76.070	-62	Minimal
			6590	-78.16	0.91	-79.070	-62	Normal
			6665	-69.16	0.91	-70.070	-62	Ceased
			6665	-71.16	0.91	-72.070	-62	Minimal
			6665	-72.16	0.91	-73.070	-62	Normal
			6740	-75.26	0.91	-76.170	-62	Ceased
			6740	-76.26	0.91	-77.170	-62	Minimal
			6740	-78.26	0.91	-79.170	-62	Normal

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Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11ax HE20	8	7015	7015	-74.20	2.887	-77.087	-62	Ceased
			7015	-75.20	2.887	-78.087	-62	Minimal
			7015	-76.20	2.887	-79.087	-62	Normal
802.11ax HE160	8	6985	6910	-72.28	2.887	-75.167	-62	Ceased
			6910	-73.28	2.887	-76.167	-62	Minimal
			6910	-76.28	2.887	-79.167	-62	Normal
			6985	-67.22	2.887	-70.107	-62	Ceased
			6985	-69.22	2.887	-72.107	-62	Minimal
			6985	-70.22	2.887	-73.107	-62	Normal
			7060	-71.29	2.887	-74.177	-62	Ceased
			7060	-73.29	2.887	-76.177	-62	Minimal
			7060	-76.29	2.887	-79.177	-62	Normal

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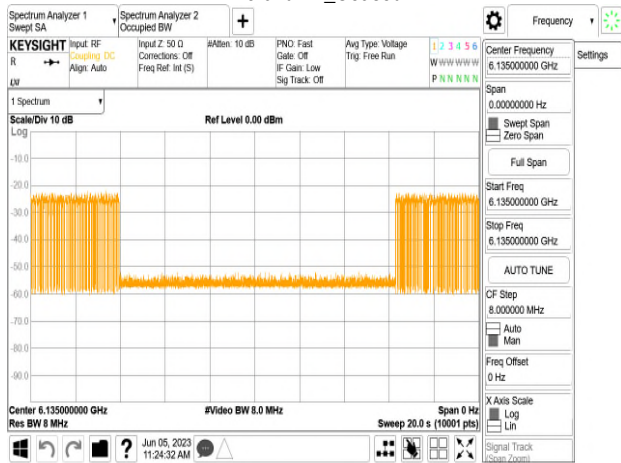
t (886-2) 2299-3279

f (886-2) 2298-0488

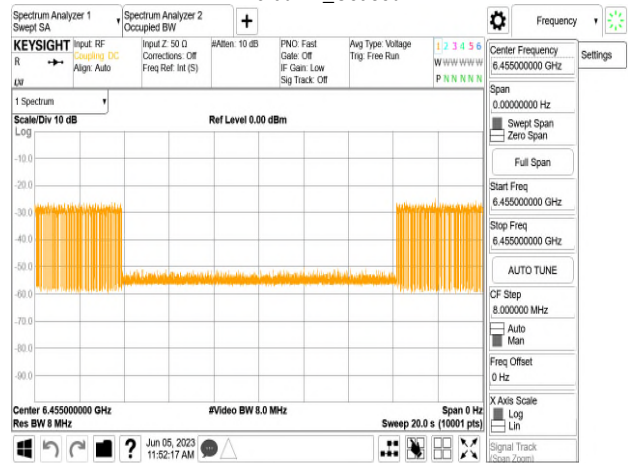
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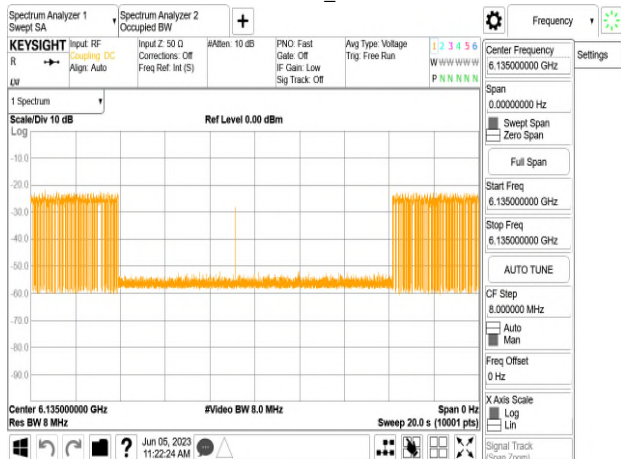
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-75.64dBm_Ceased



802.11ax_20MHz_CF 6455MHz_Interference_6455MHz_
-73.6dBm_Ceased



802.11ax_20MHz_CF 6135MHz_Interference_6135MHz_
-76.64dBm_Minimal



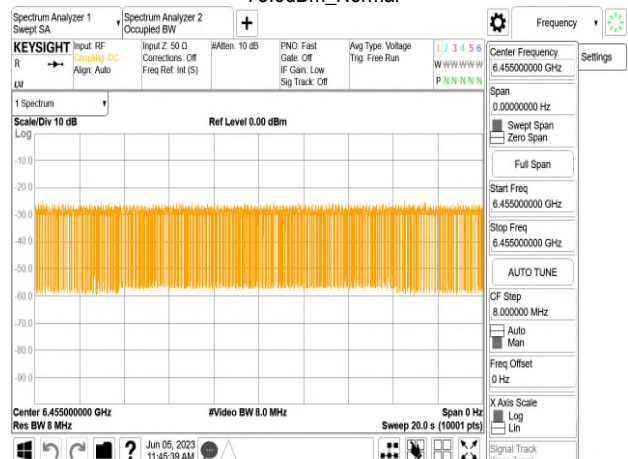
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-74.6dBm_Minimal



802.11ax_20MHz_CF 6135MHz_Interference_6135MHz_
-78.64dBm_Normal



802.11ax_20MHz_CF 6455MHz_Interference_6455MHz_
-75.6dBm_Normal

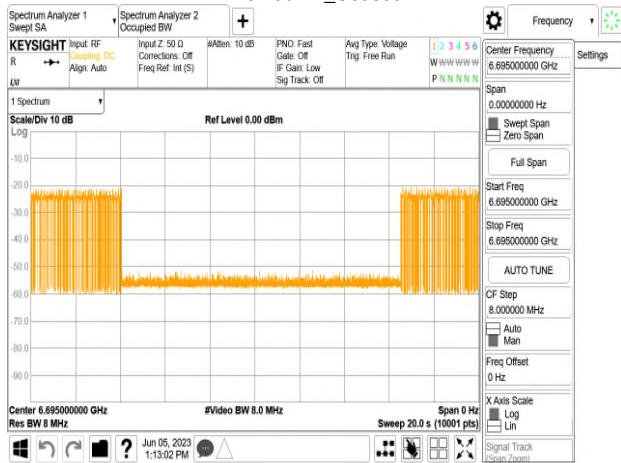


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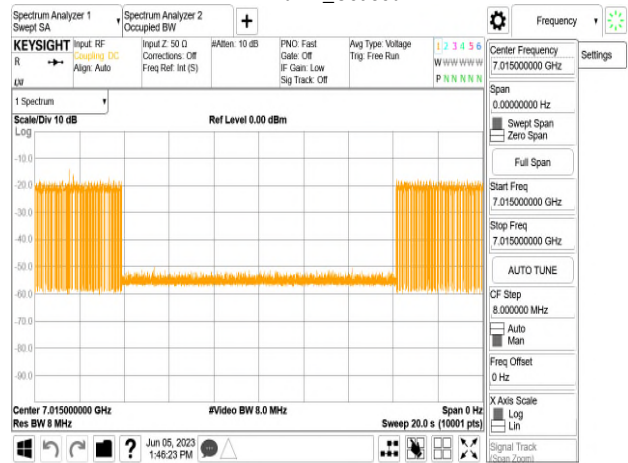
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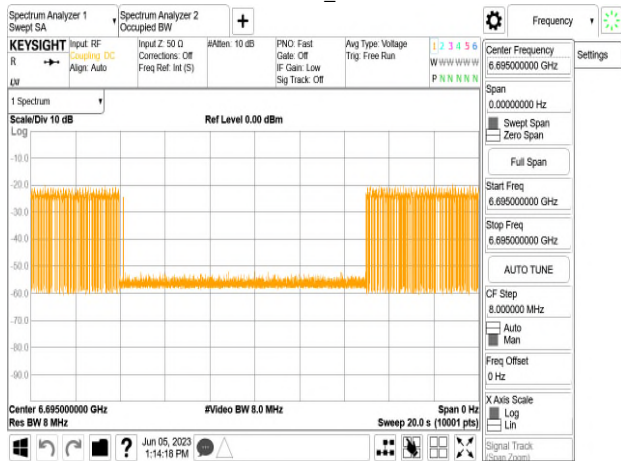
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802.11ax_20MHz_CF 7015MHz_Interference_7015MHz_-74.2dBm_Ceased



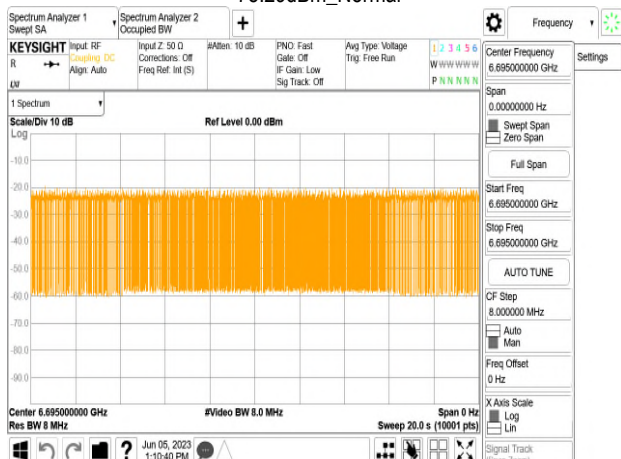
802.11ax_20MHz_CF 6695MHz_Interference_6695MHz_-76.29dBm_Minimal



802.11ax_20MHz_CF 7015MHz_Interference_7015MHz_-75.2dBm_Minimal



802.11ax_20MHz_CF 6695MHz_Interference_6695MHz_-78.29dBm_Normal



802.11ax_20MHz_CF 7015MHz_Interference_7015MHz_-76.2dBm_Normal

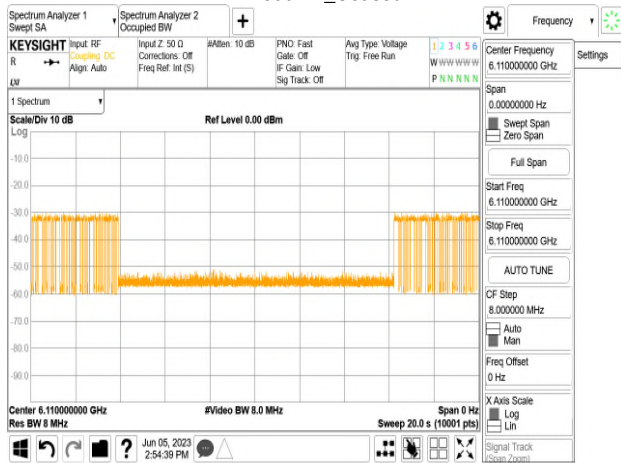


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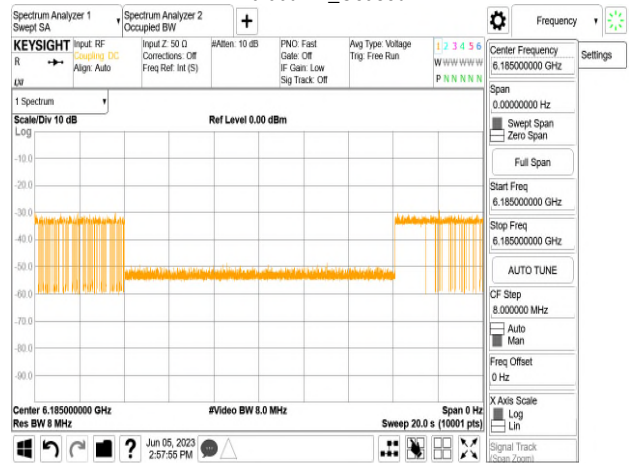
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802.11ax_160MHz_CF 6185MHz_Interference_6110MHz_-74.59dBm_Ceased



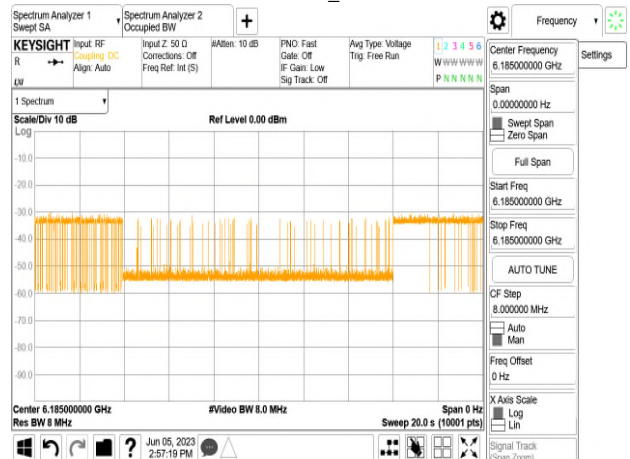
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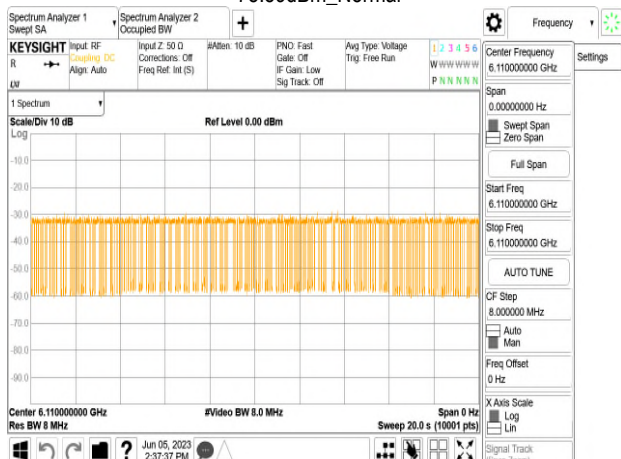
802.11ax_160MHz_CF 6185MHz_Interference_6110MHz_-75.59dBm_Minimal



802.11ax_160MHz_CF 6185MHz_Interference_6185MHz_-71.66dBm_Minimal



802.11ax_160MHz_CF 6185MHz_Interference_6110MHz_-78.59dBm_Normal



802.11ax_160MHz_CF 6185MHz_Interference_6185MHz_-72.66dBm_Normal

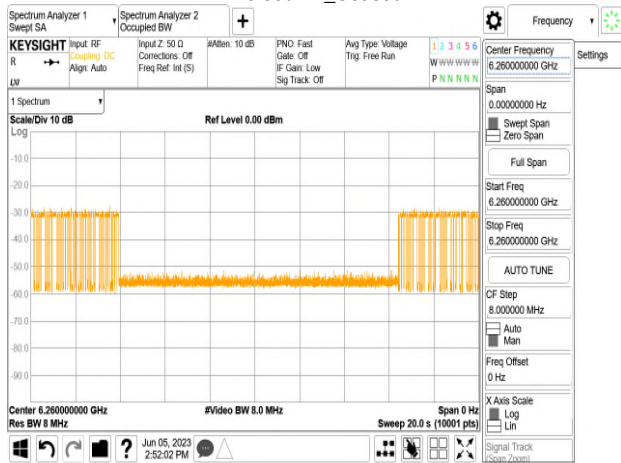


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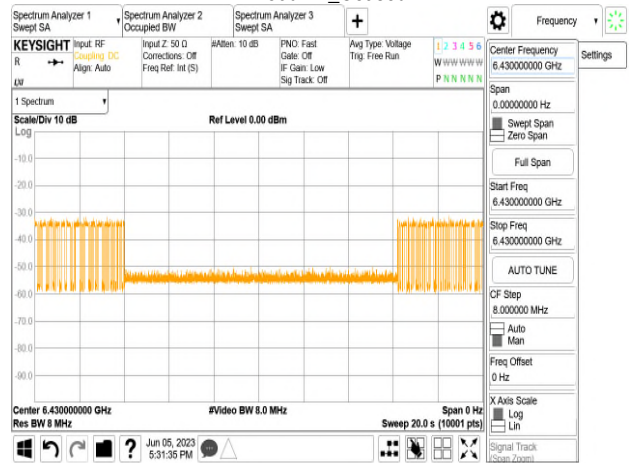
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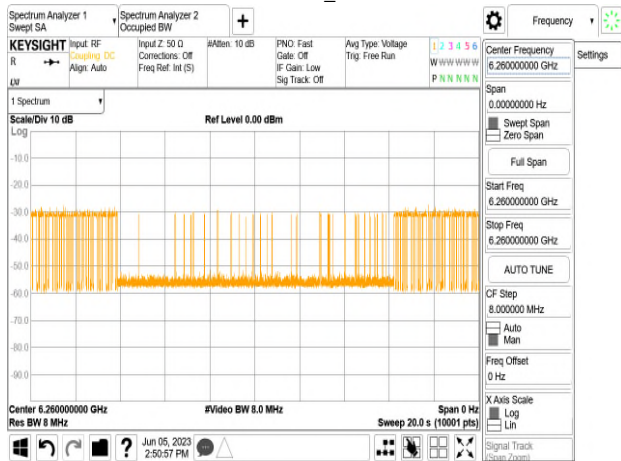
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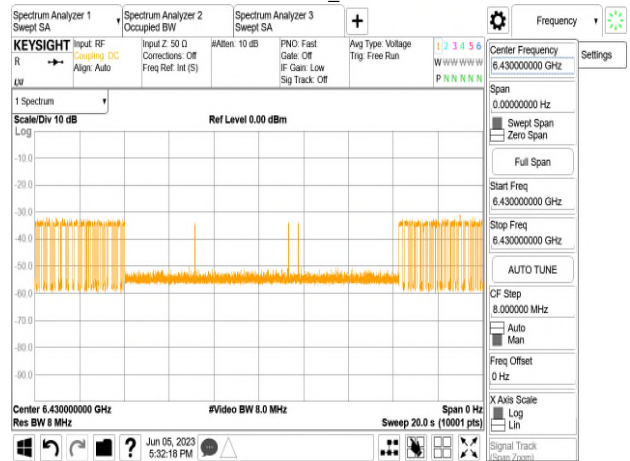
802.11ax_160MHz_CF 6505MHz_Interference_6430MHz_
-72.59dBm_Ceased



802.11ax_160MHz_CF 6185MHz_Interference_6260MHz_
-76.53dBm_Minimal



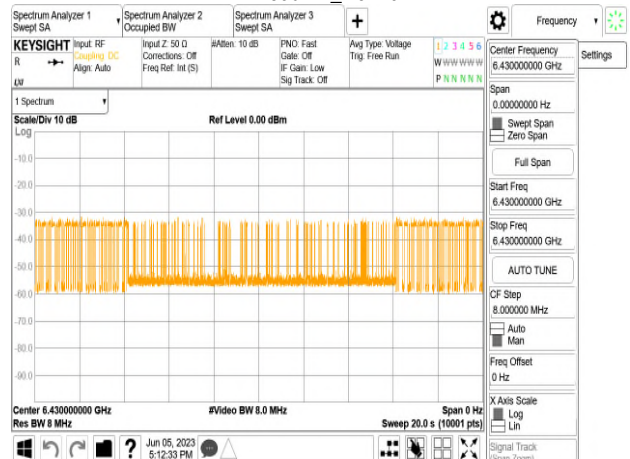
802.11ax_160MHz_CF 6505MHz_Interference_6430MHz_
-73.59dBm_Minimal



802.11ax_160MHz_CF 6185MHz_Interference_6260MHz_
-78.53dBm_Normal



802.11ax_160MHz_CF 6505MHz_Interference_6430MHz_
-74.59dBm_Normal

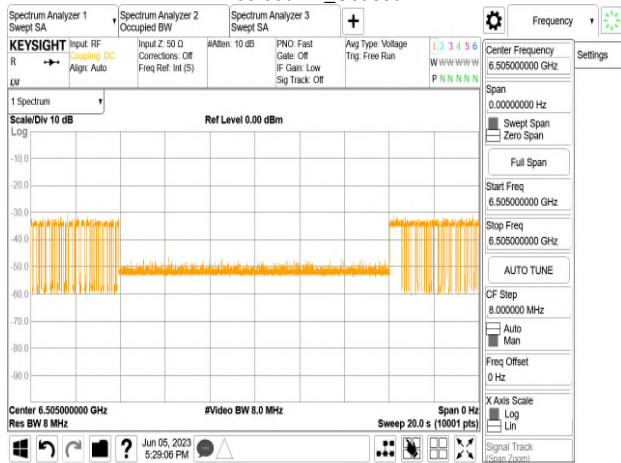


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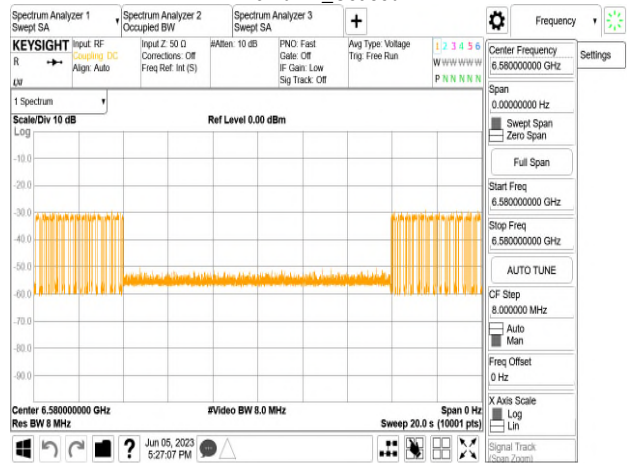
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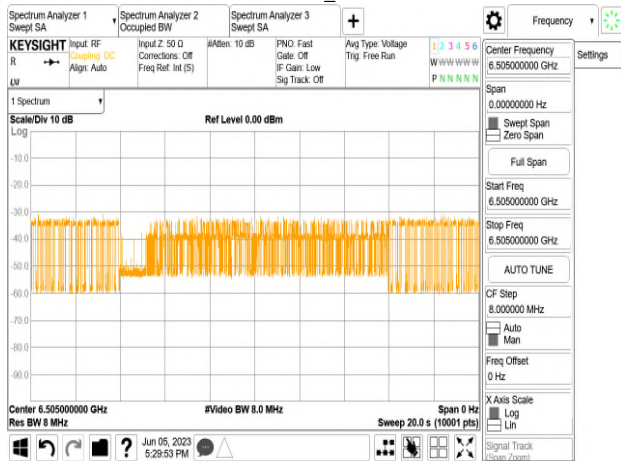
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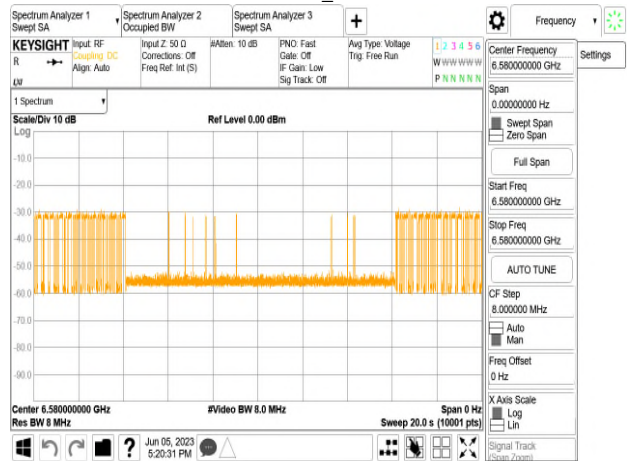
802.11ax_160MHz_CF 6505MHz_Interference_6580MHz_-73.7dBm_Ceased



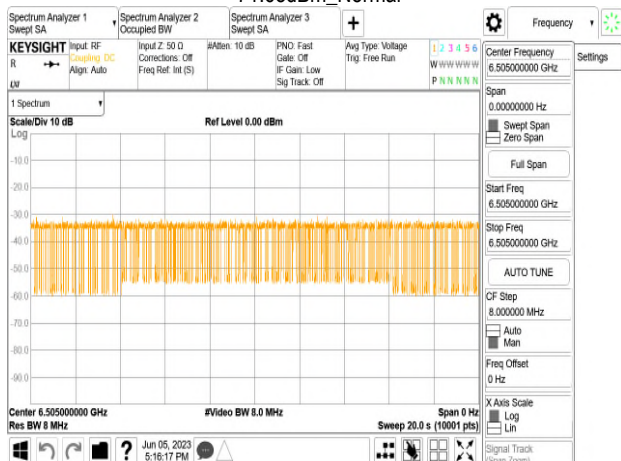
802.11ax_160MHz_CF 6505MHz_Interference_6505MHz_-69.68dBm_Minimal



802.11ax_160MHz_CF 6505MHz_Interference_6580MHz_-74.7dBm_Minimal



802.11ax_160MHz_CF 6505MHz_Interference_6505MHz_-71.68dBm_Normal



802.11ax_160MHz_CF 6505MHz_Interference_6580MHz_-77.7dBm_Normal

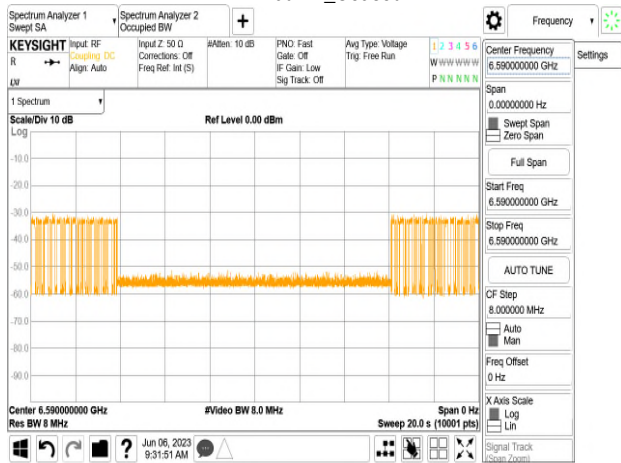


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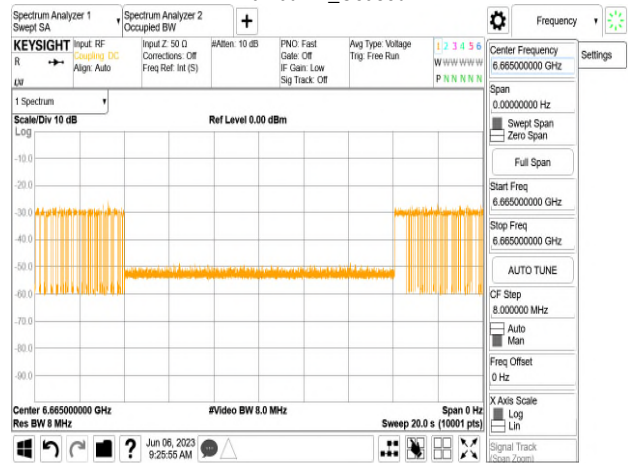
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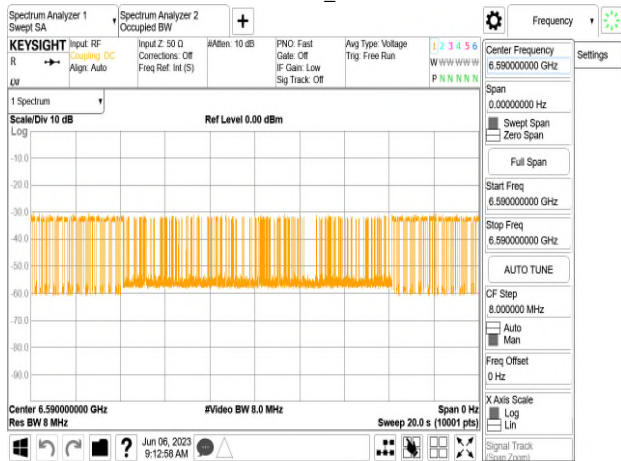
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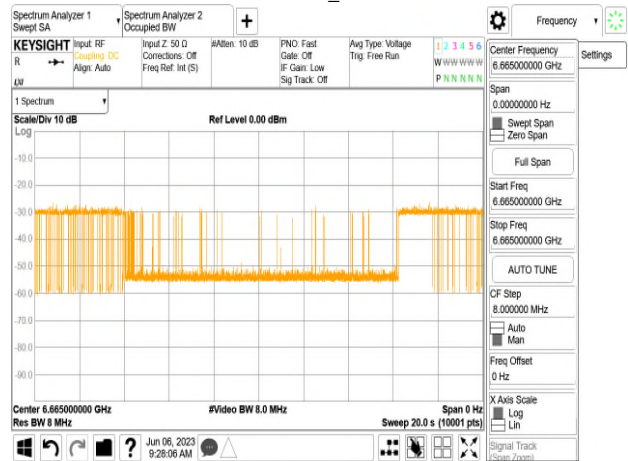
802.11ax_160MHz_CF 6665MHz_Interference_6665MHz_-70.16dBm_Ceased



802.11ax_160MHz_CF 6665MHz_Interference_6590MHz_-75.16dBm_Minimal



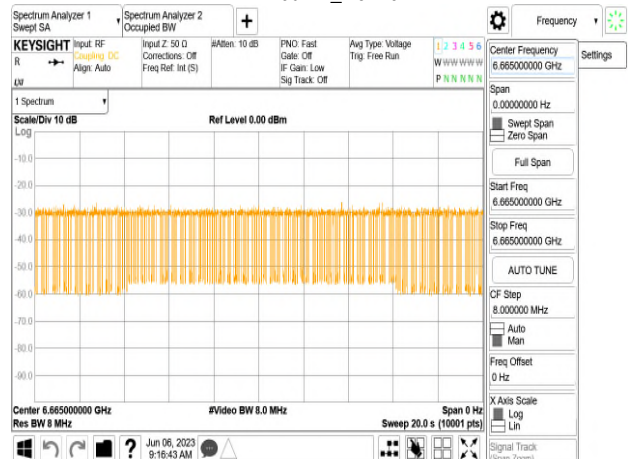
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802.11ax_160MHz_CF 6665MHz_Interference_6665MHz_-72.16dBm_Normal

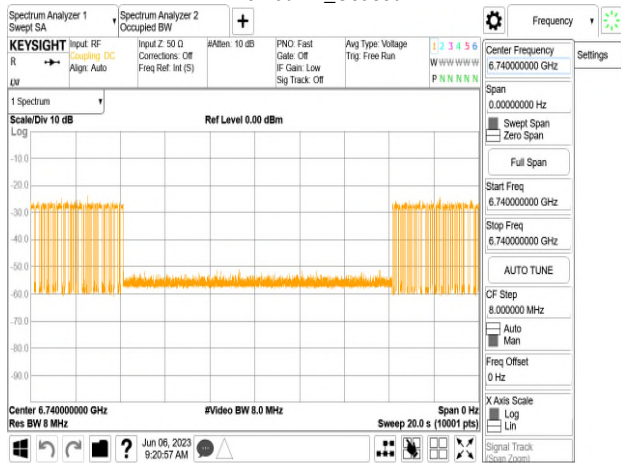


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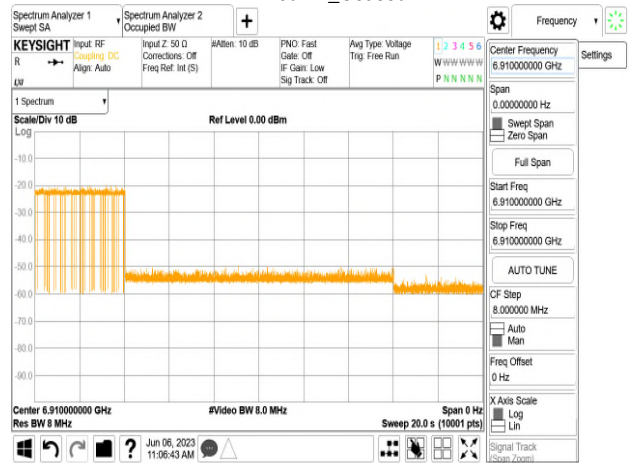
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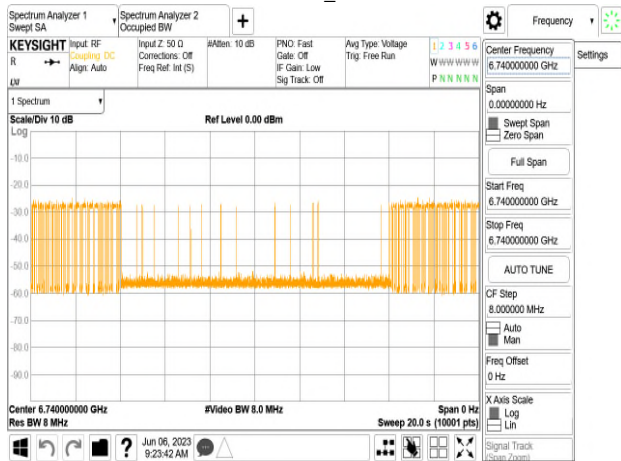
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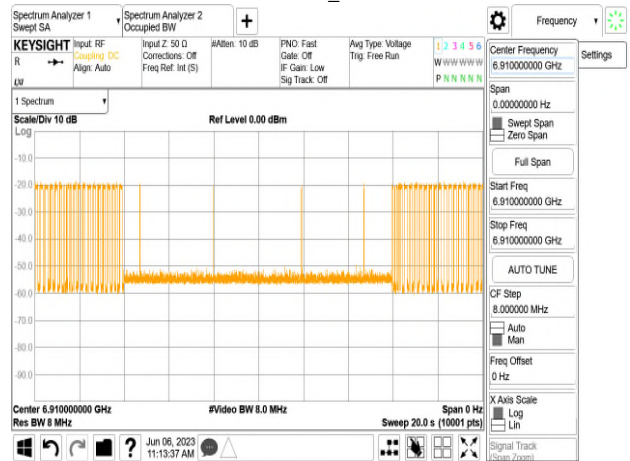
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-72.28dBm_Ceased



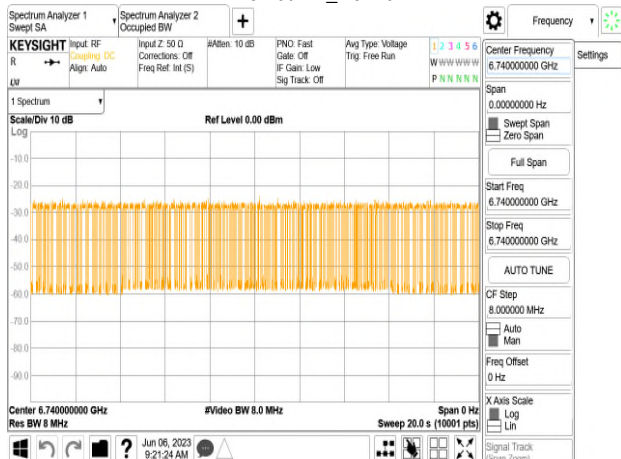
802.11ax_160MHz_CF 6665MHz_Interference_6740MHz_
-76.26dBm_Minimal



802.11ax_160MHz_CF 6985MHz_Interference_6910MHz_
-73.28dBm_Minimal



802.11ax_160MHz_CF 6665MHz_Interference_6740MHz_
-78.26dBm_Normal



802.11ax_160MHz_CF 6985MHz_Interference_6910MHz_
-76.28dBm_Normal

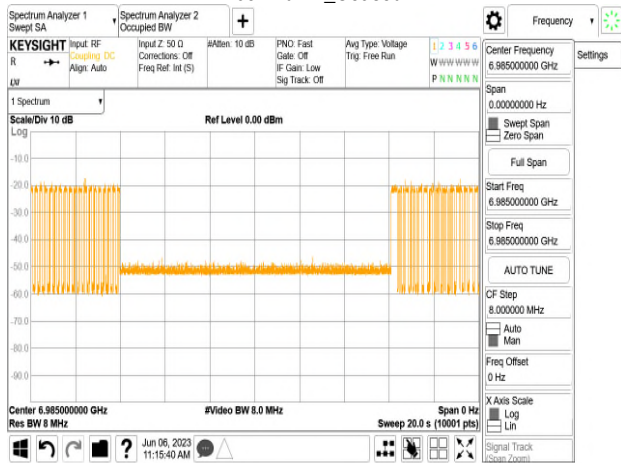


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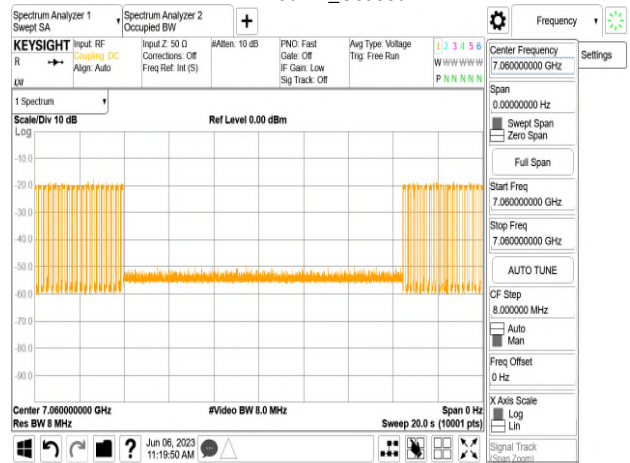
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802.11ax_160MHz_CF 6985MHz_Interference_6985MHz_-68.22dBm_Ceased



802.11ax_160MHz_CF 6985MHz_Interference_7060MHz_-72.29dBm_Ceased



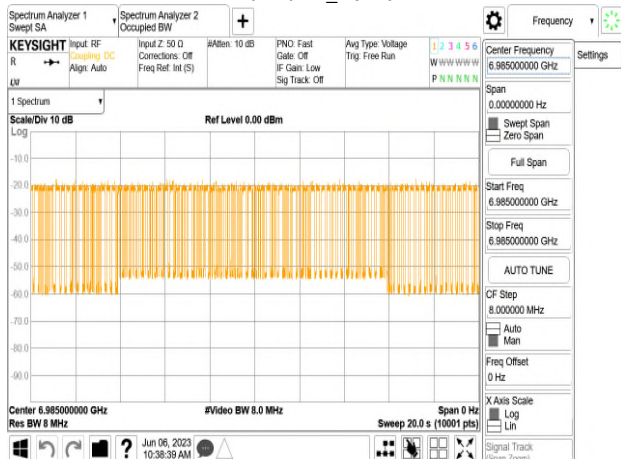
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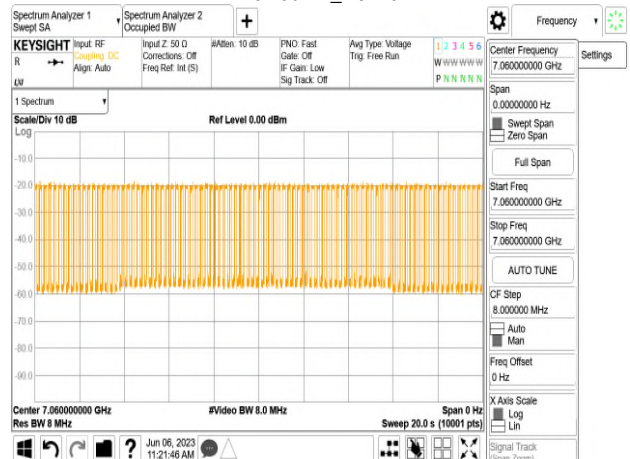
802.11ax_160MHz_CF 6985MHz_Interference_7060MHz_-73.29dBm_Minimal



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802.11ax_160MHz_CF 6985MHz_Interference_7060MHz_-76.29dBm_Normal

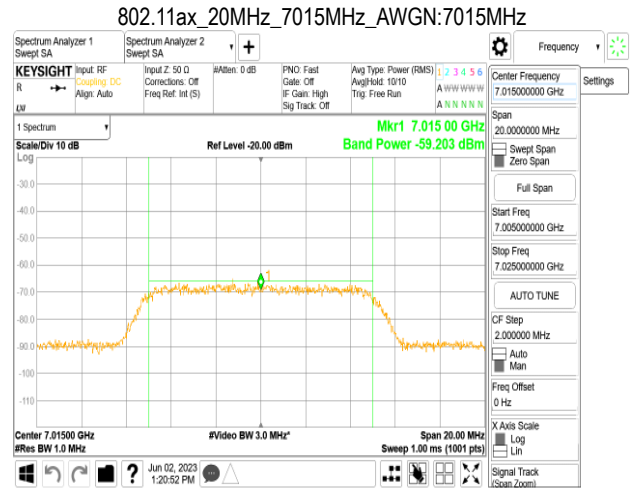


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11.4.3 Incumbent_signal

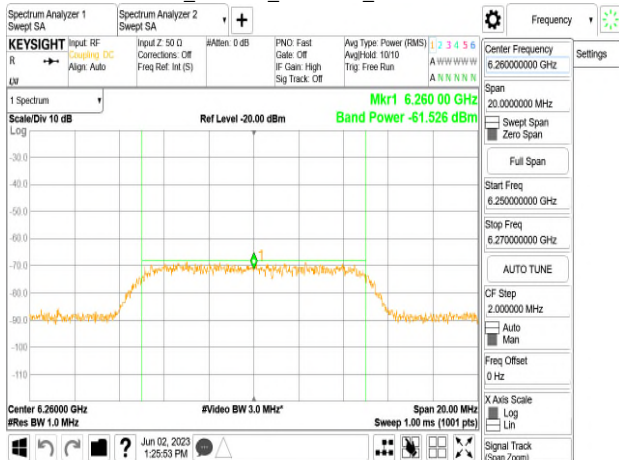


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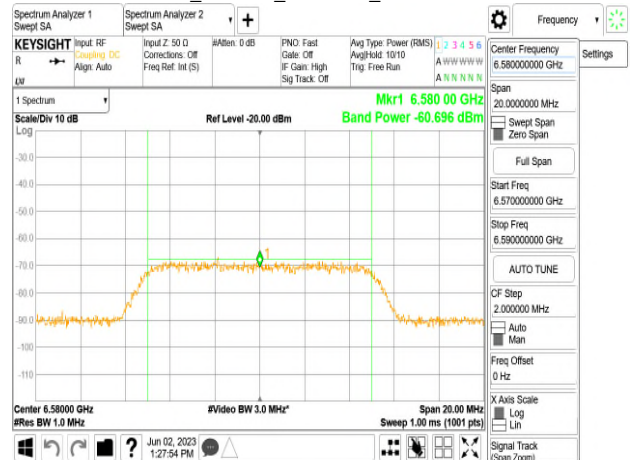
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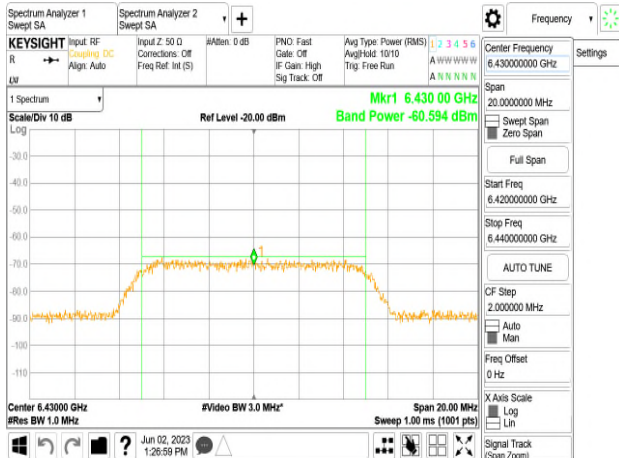
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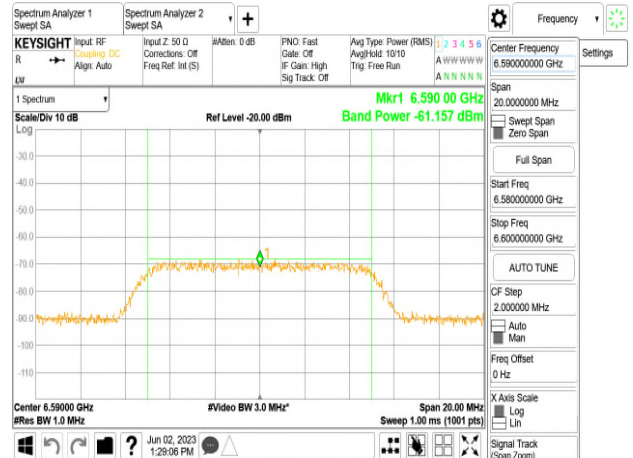
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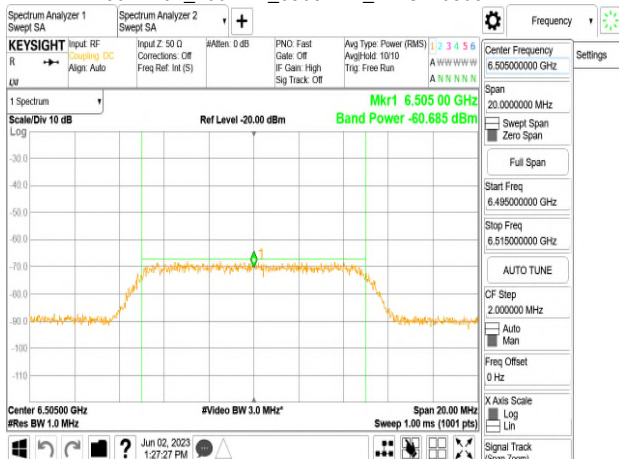
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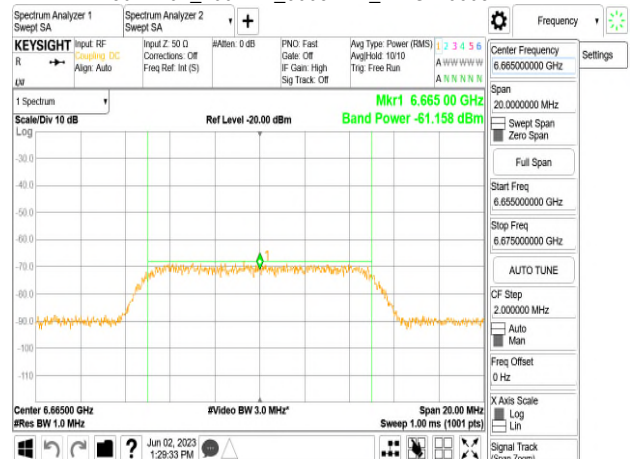
802.11ax_160MHz_6665MHz_AWGN:6590MHz



802.11ax_160MHz_6505MHz_AWGN:6505MHz



802.11ax_160MHz_6665MHz_AWGN:6665MHz

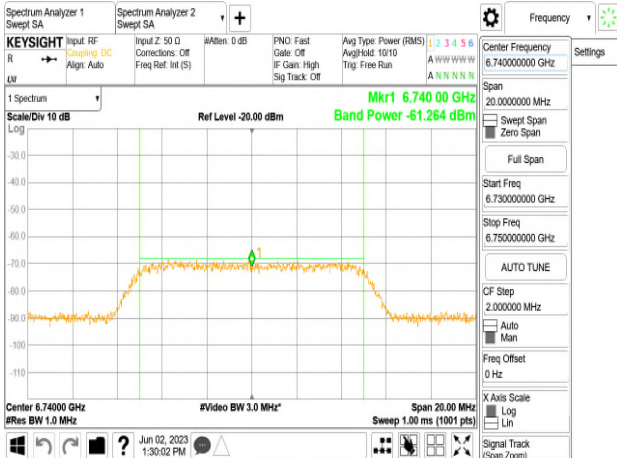


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

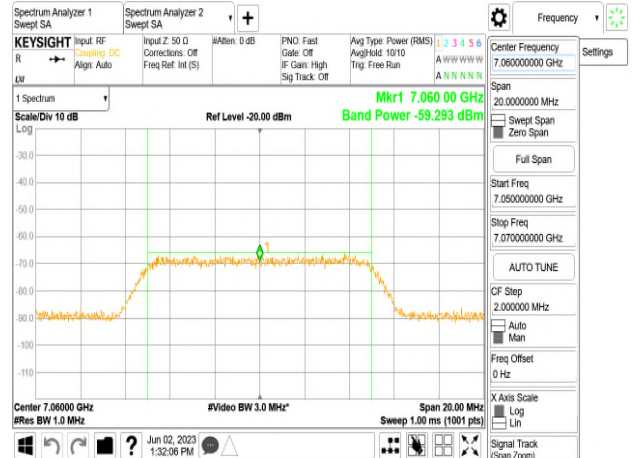
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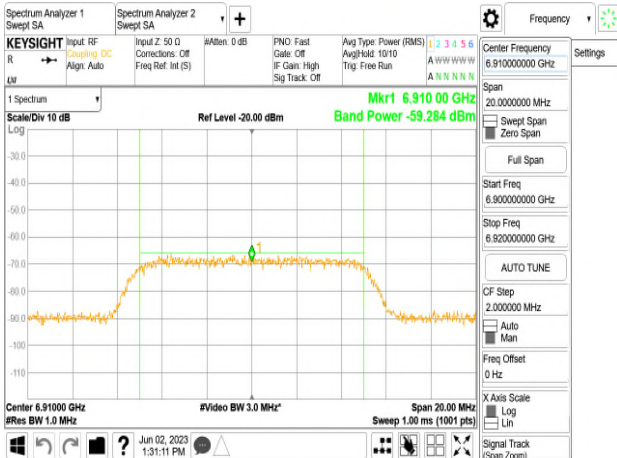
802.11ax_160MHz_6665MHz_AWGN:6740MHz



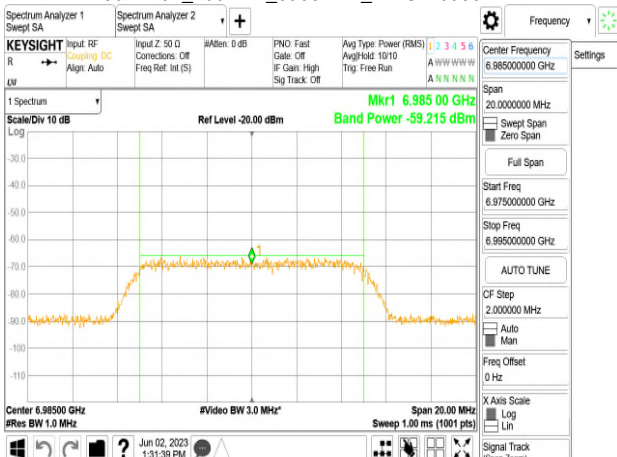
802.11ax_160MHz_6985MHz_AWGN:7060MHz



802.11ax_160MHz_6985MHz_AWGN:6910MHz



802.11ax_160MHz_6985MHz_AWGN:6985MHz



~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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