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Figure 63: The plots of Power Spectral Density, 802.11ac(VHT20), 5745MHz, at Chain 1

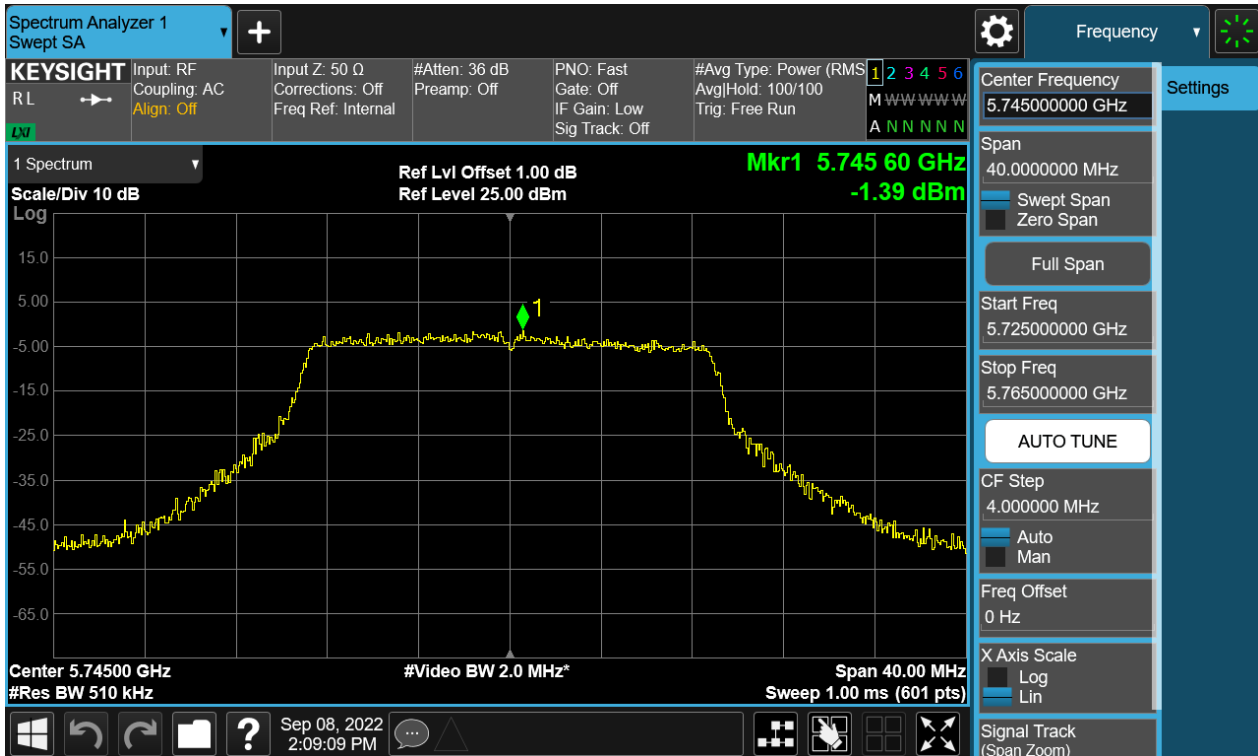
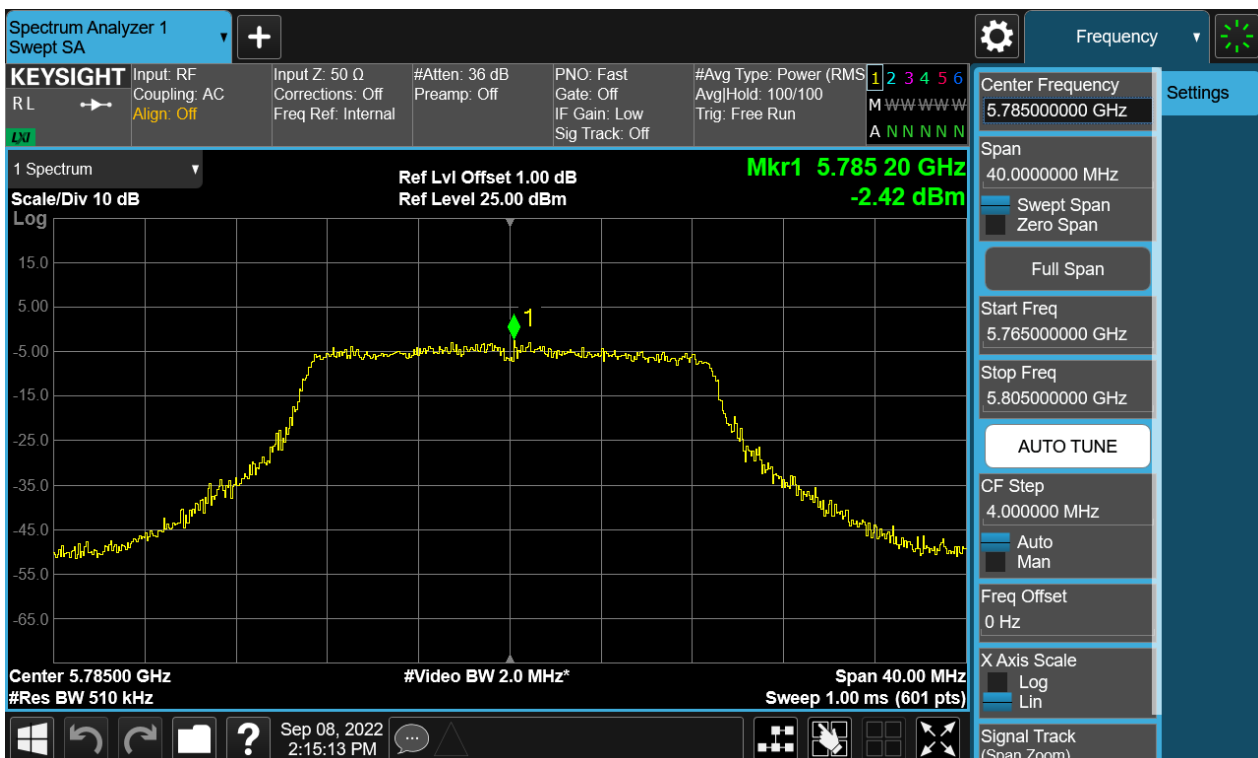


Figure 64: The plots of Power Spectral Density, 802.11ac(VHT20), 5785MHz, at Chain 1



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Figure 65: The plots of Power Spectral Density, 802.11ac(VHT20), 5825MHz, at Chain 1

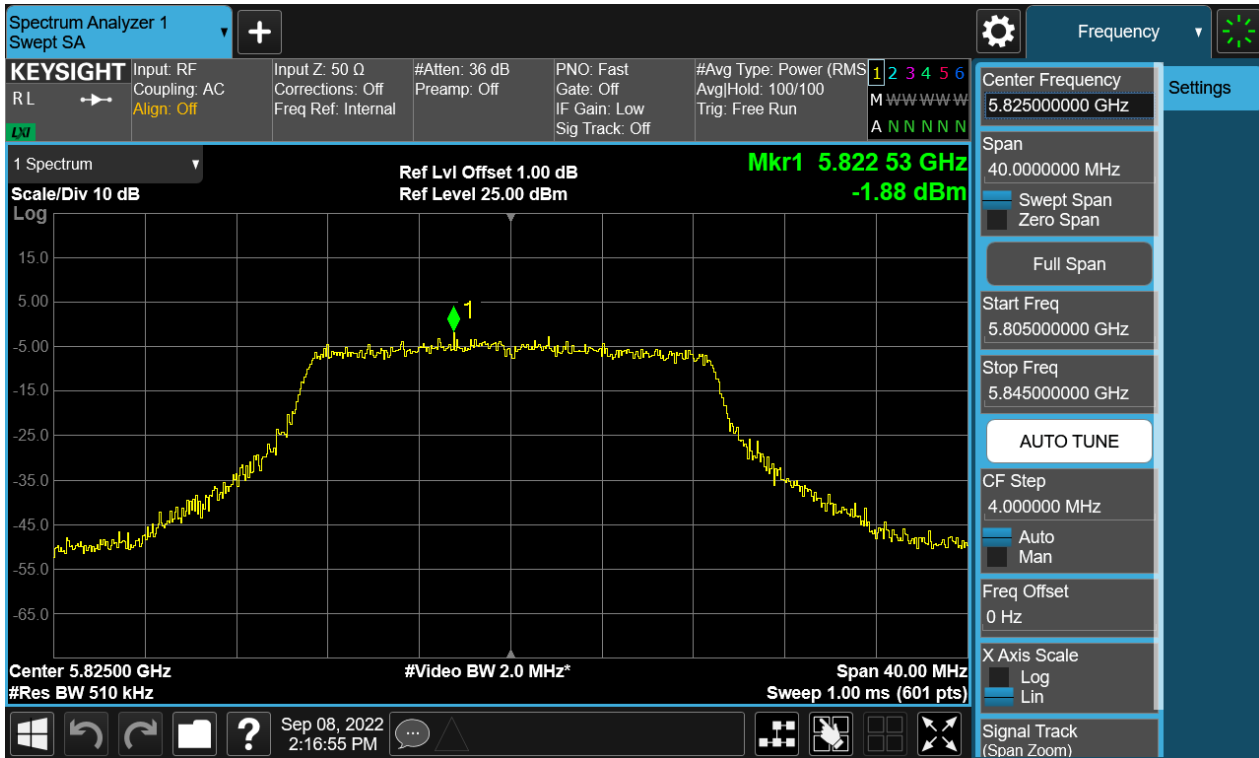
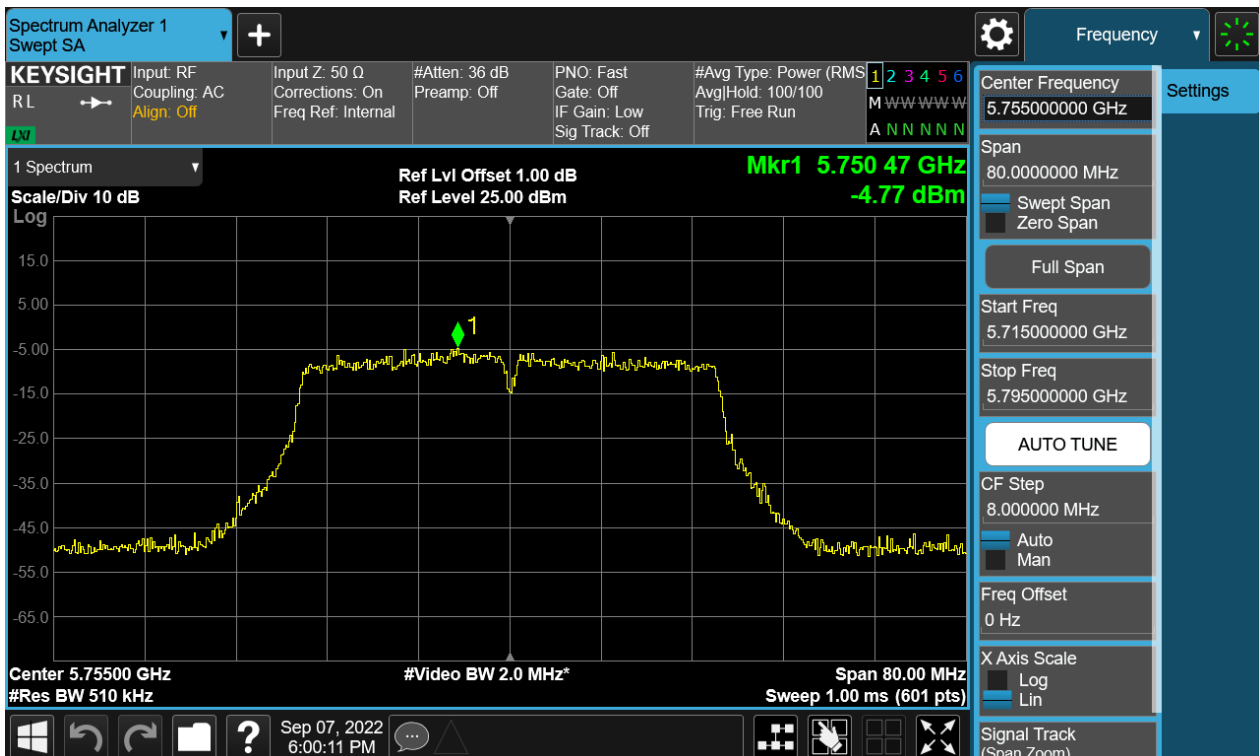


Figure 66: The plots of Power Spectral Density, 802.11n(HT40), 5755MHz, at Chain 1



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Figure 67: The plots of Power Spectral Density, 802.11n(HT40), 5795MHz, at Chain 1

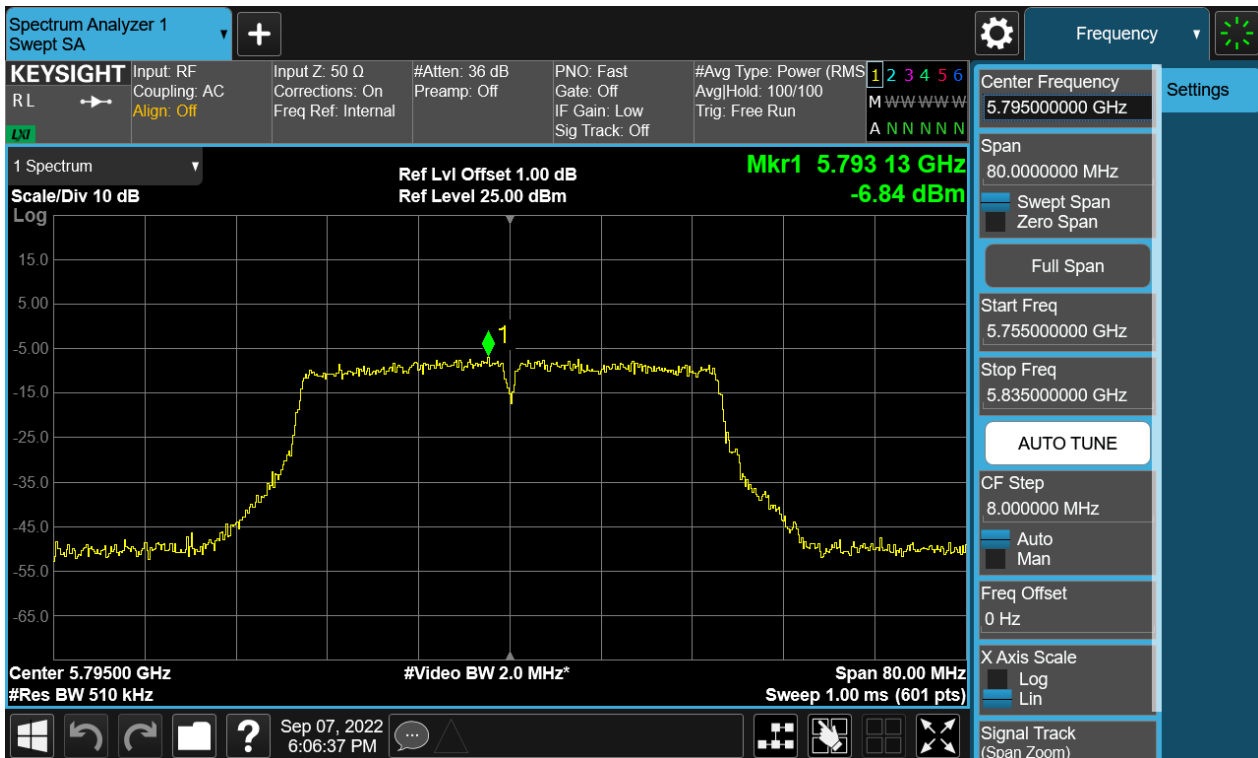
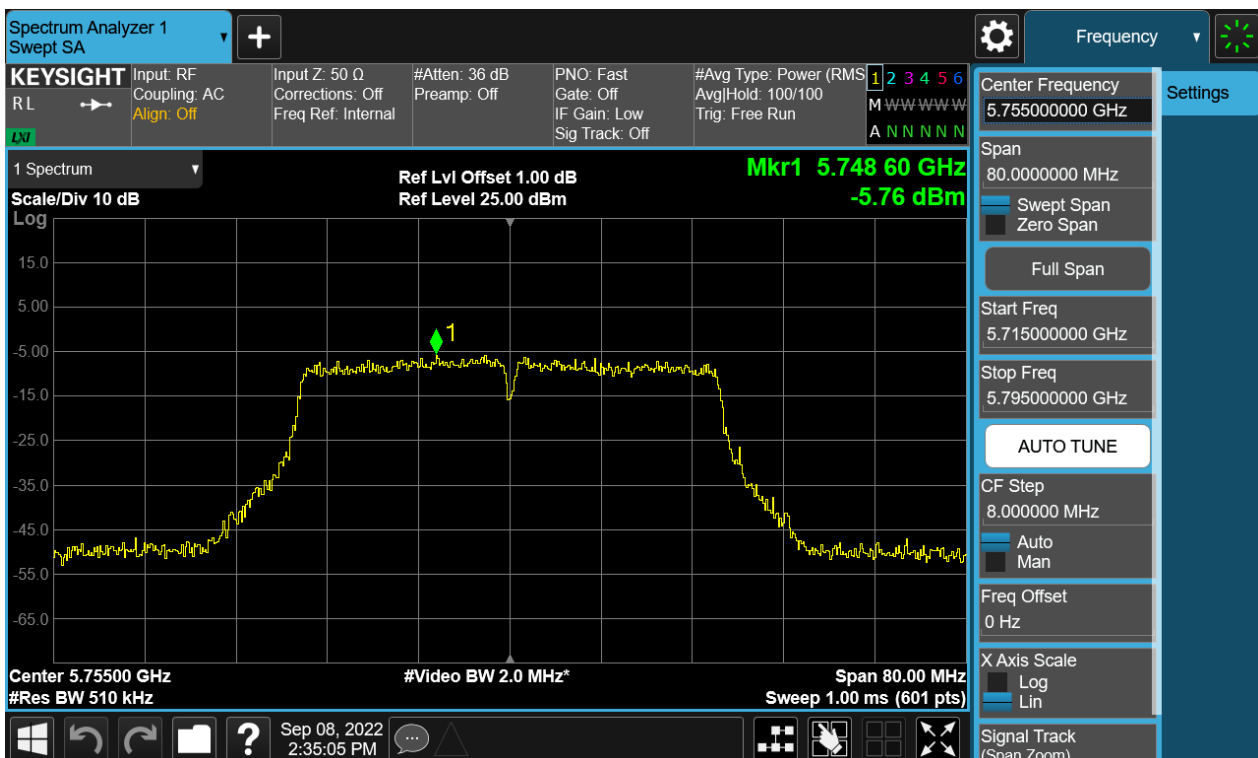


Figure 68: The plots of Power Spectral Density, 802.11ac(VHT40), 5755MHz, at Chain 1



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Figure 69: The plots of Power Spectral Density, 802.11ac(VHT40), 5795MHz, at Chain 1

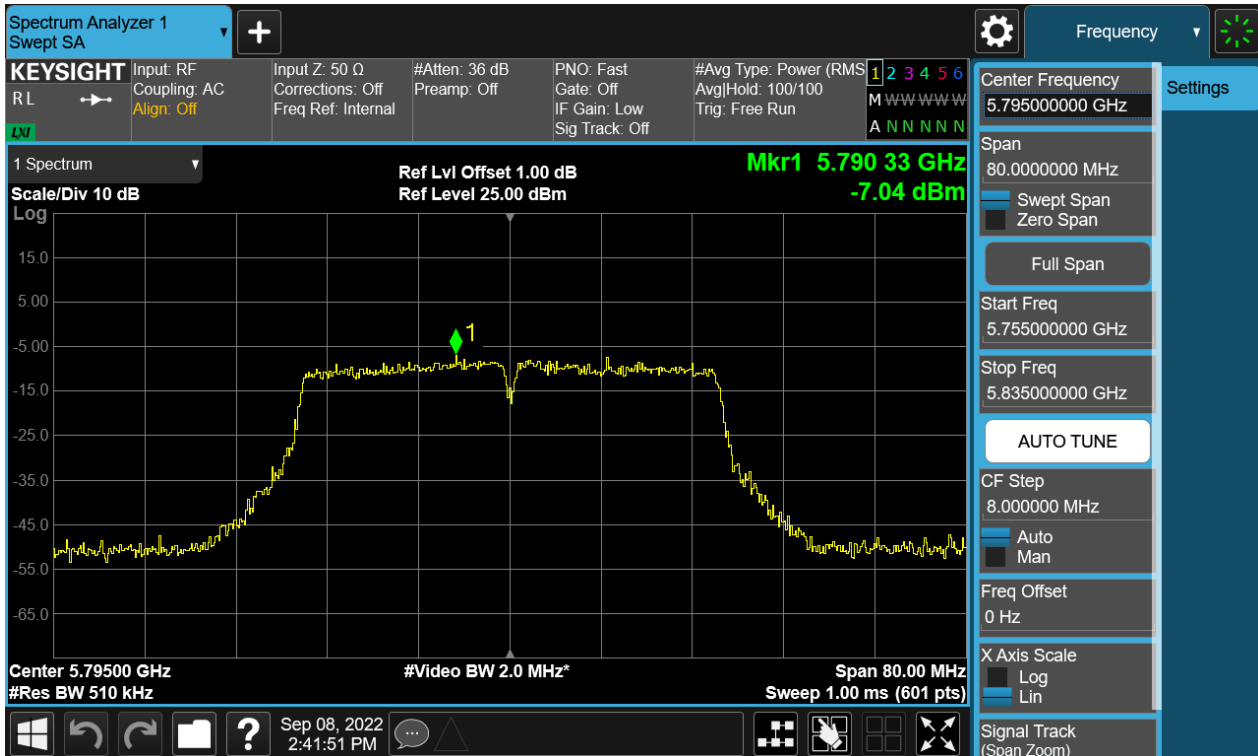
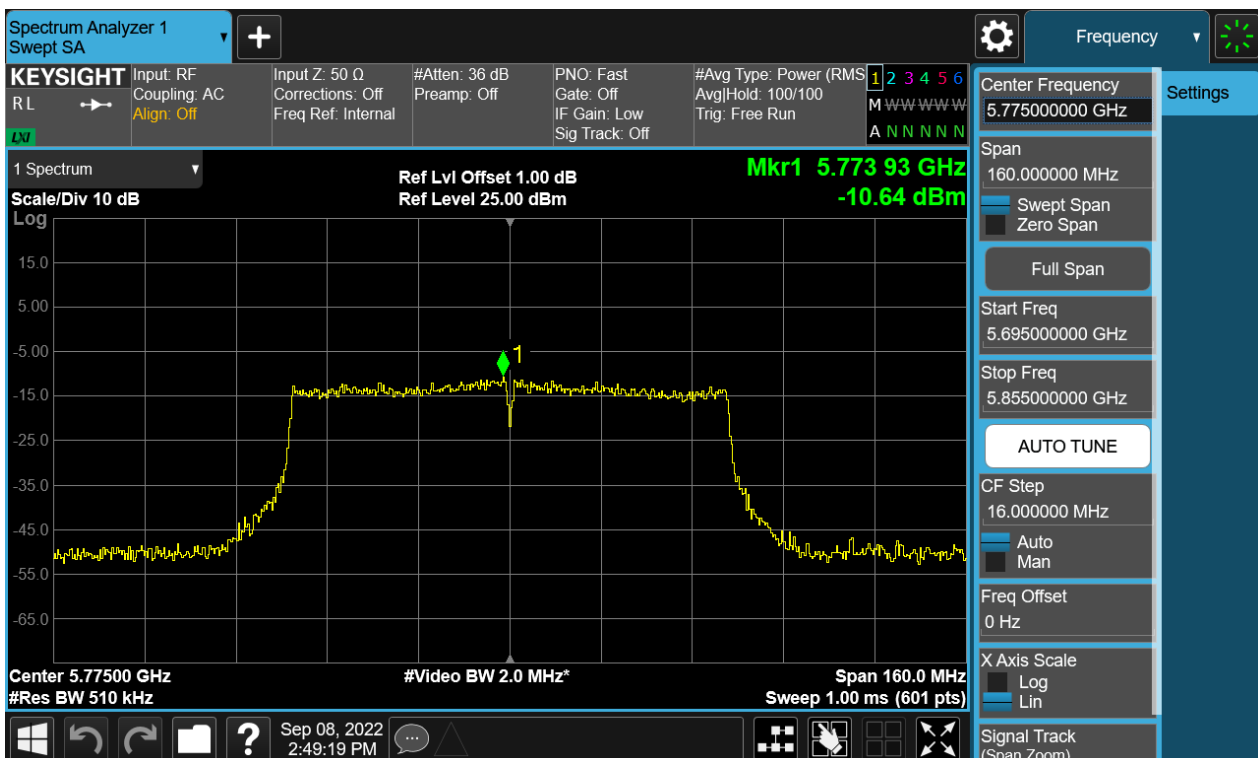


Figure 70: The plots of Power Spectral Density, 802.11ac(VHT80), 5775MHz, at Chain 1



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Figure 71: The plots of Power Spectral Density, 802.11a, 5745MHz, at Chain 2

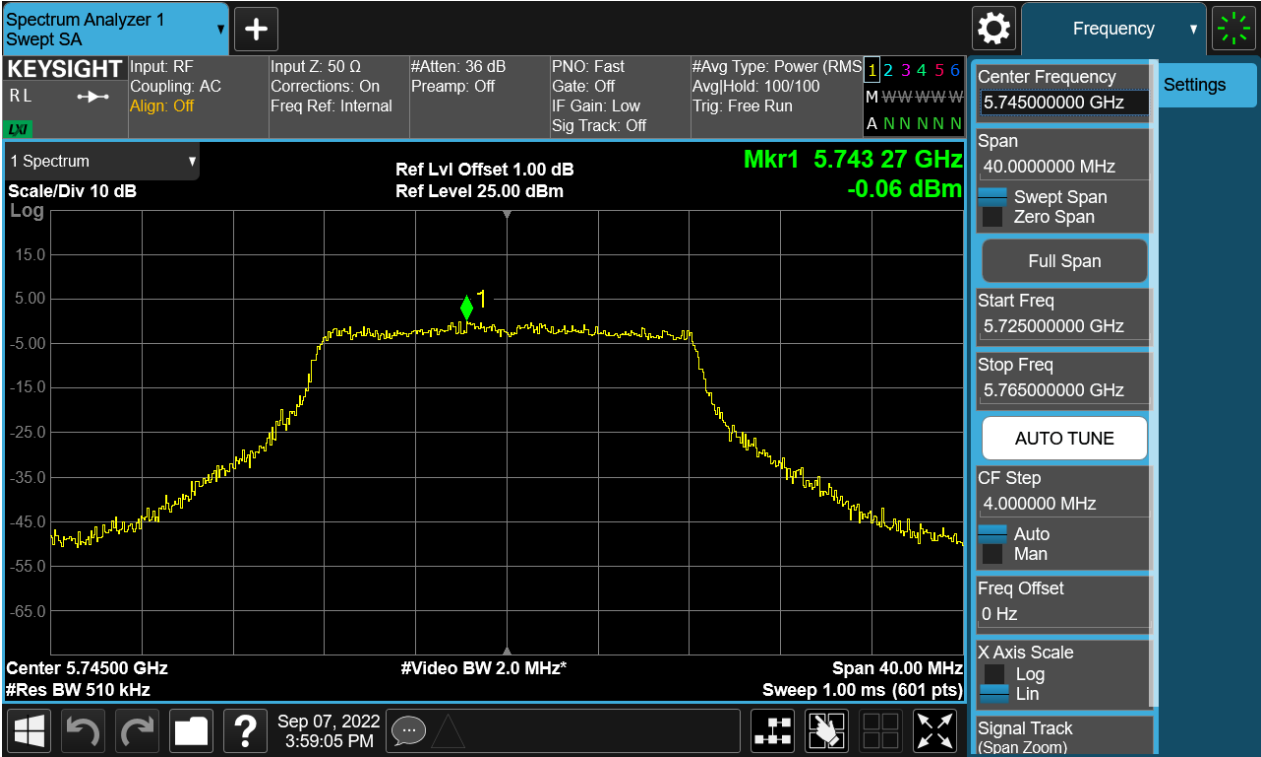
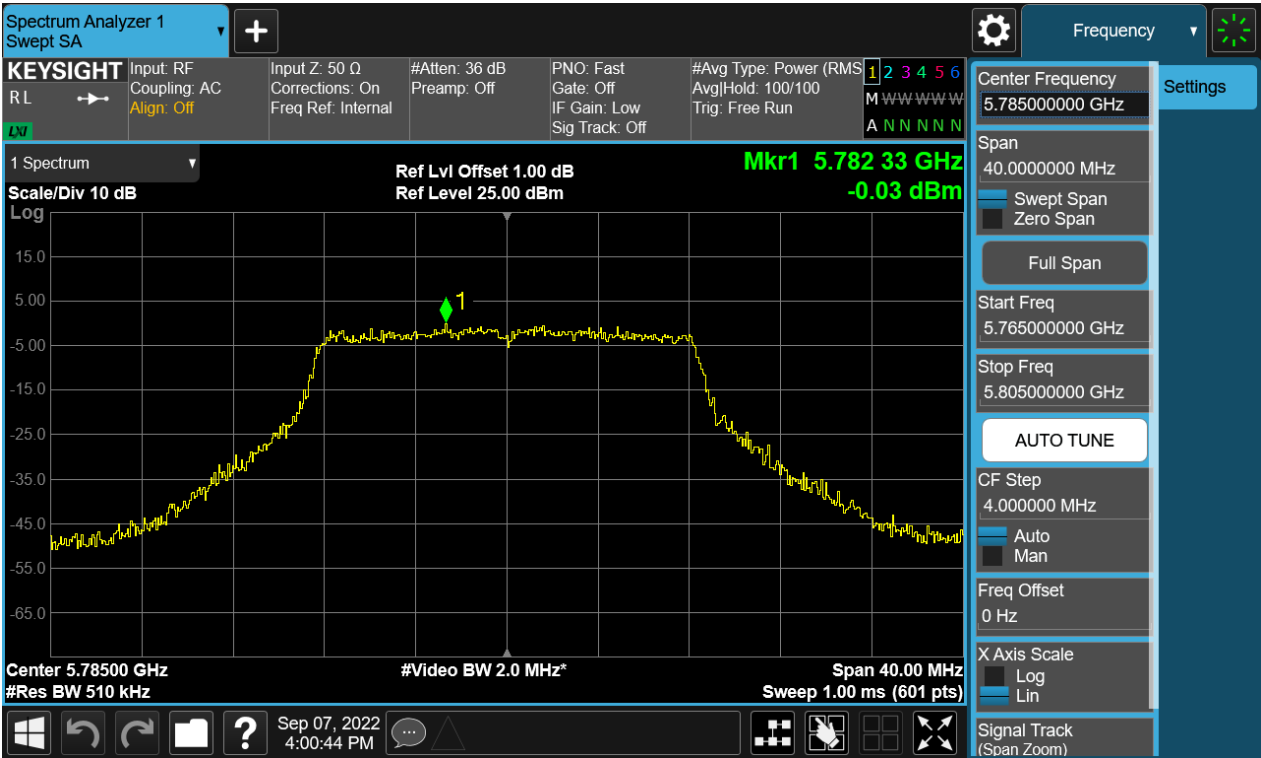


Figure 72: The plots of Power Spectral Density, 802.11a, 5785MHz, at Chain 2



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Figure 73: The plots of Power Spectral Density, 802.11a, 5825MHz, at Chain 2

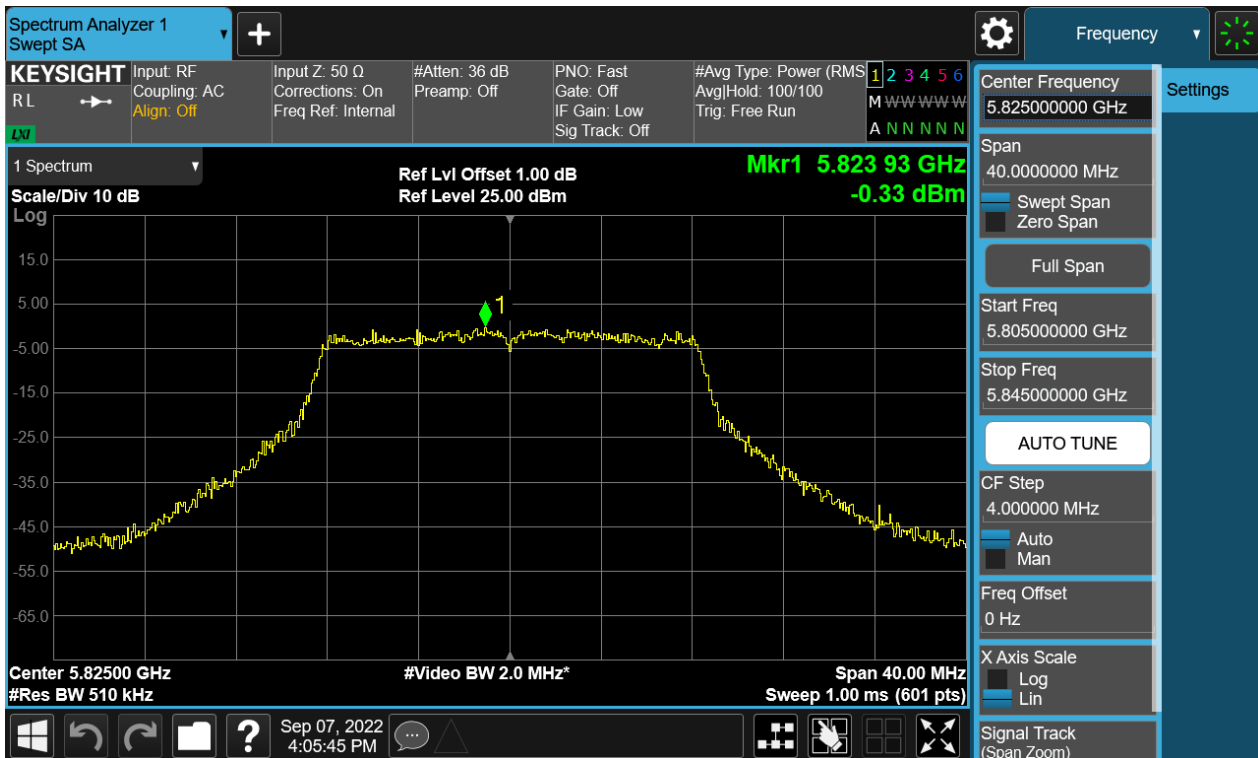
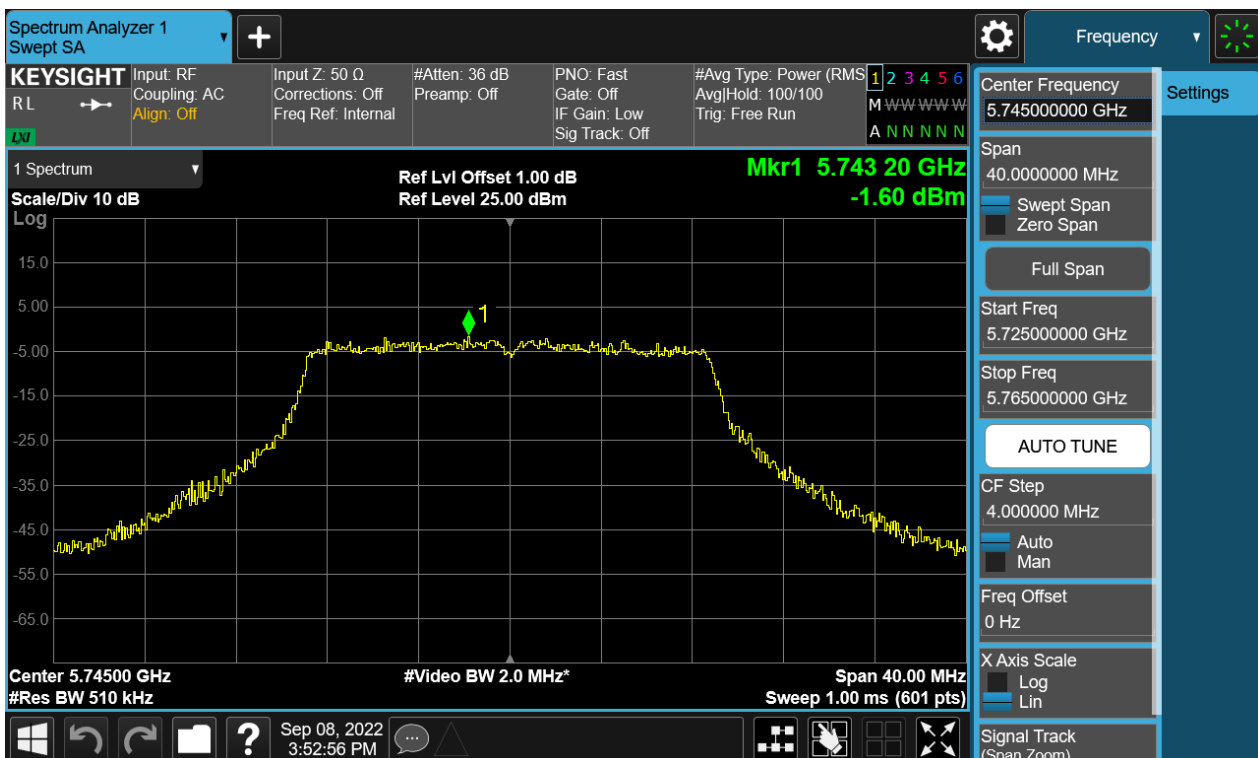


Figure 74: The plots of Power Spectral Density, 802.11n(HT20), 5745MHz, at Chain 2



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Figure 75: The plots of Power Spectral Density, 802.11n(HT20), 5785MHz, at Chain 2

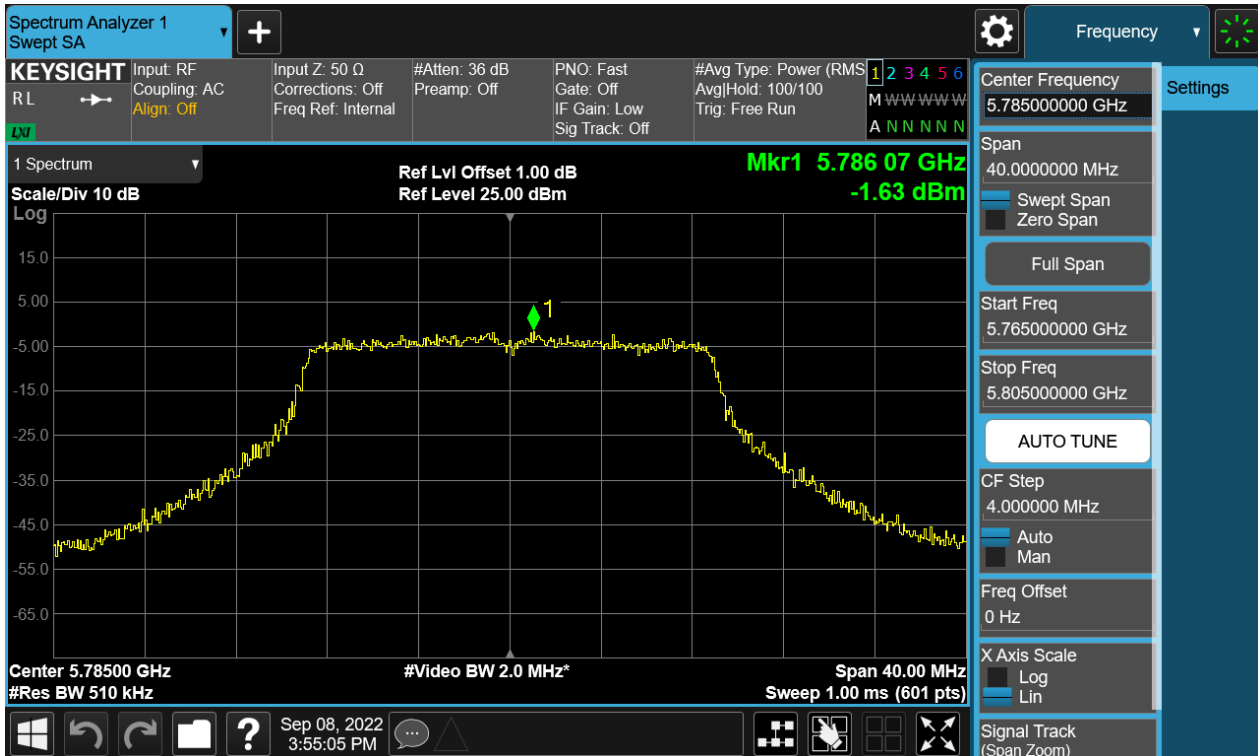
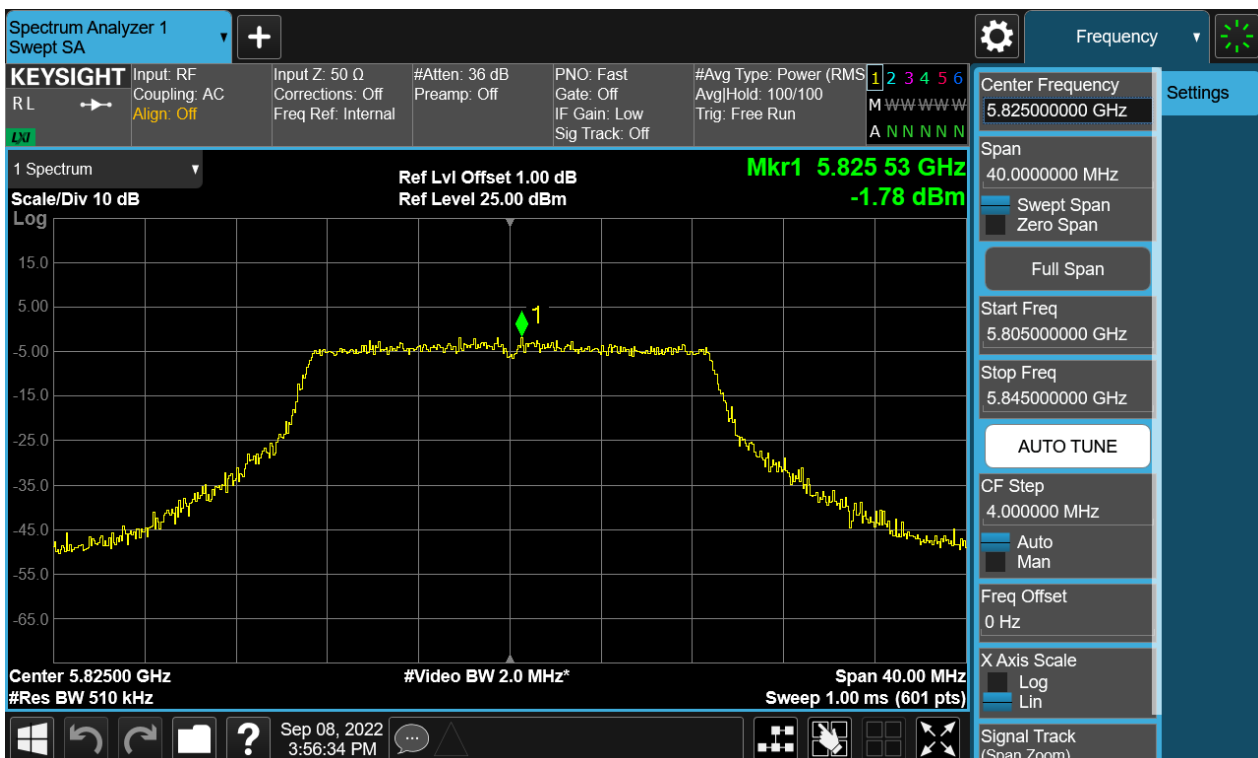


Figure 76: The plots of Power Spectral Density, 802.11n(HT20), 5825MHz, at Chain 2



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Figure 77: The plots of Power Spectral Density, 802.11ac(VHT20), 5745MHz, at Chain 2

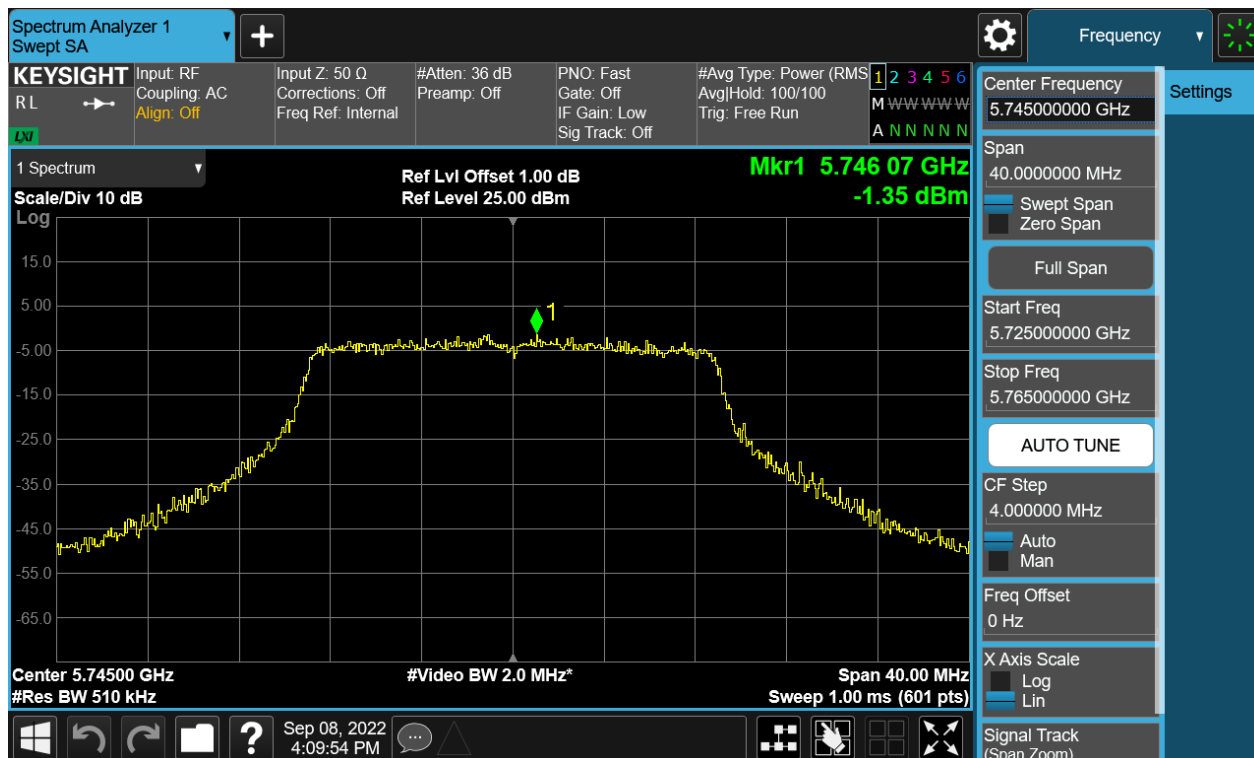
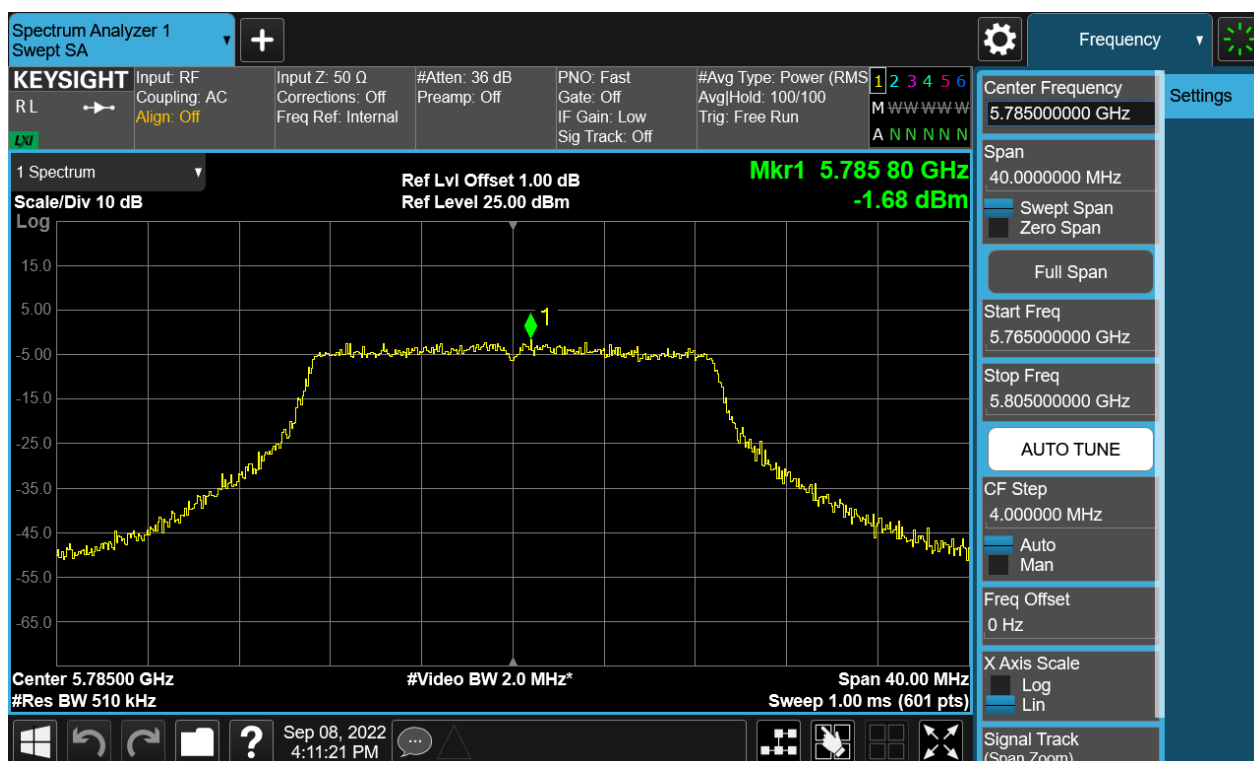


Figure 78: The plots of Power Spectral Density, 802.11ac(VHT20), 5785MHz, at Chain 2



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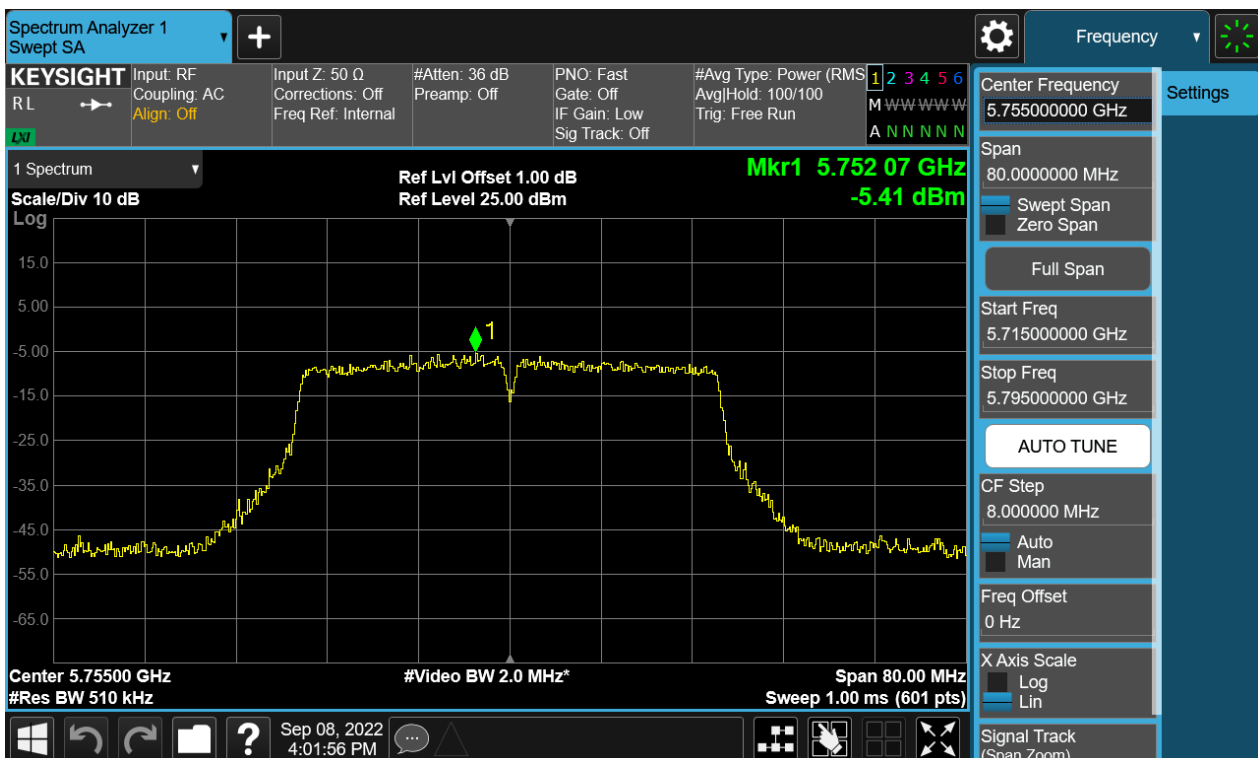
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Figure 79: The plots of Power Spectral Density, 802.11ac(VHT20), 5825MHz, at Chain 2



Figure 80: The plots of Power Spectral Density, 802.11n(HT40), 5755MHz, at Chain 2



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Figure 81: The plots of Power Spectral Density, 802.11n(HT40), 5795MHz, at Chain 2

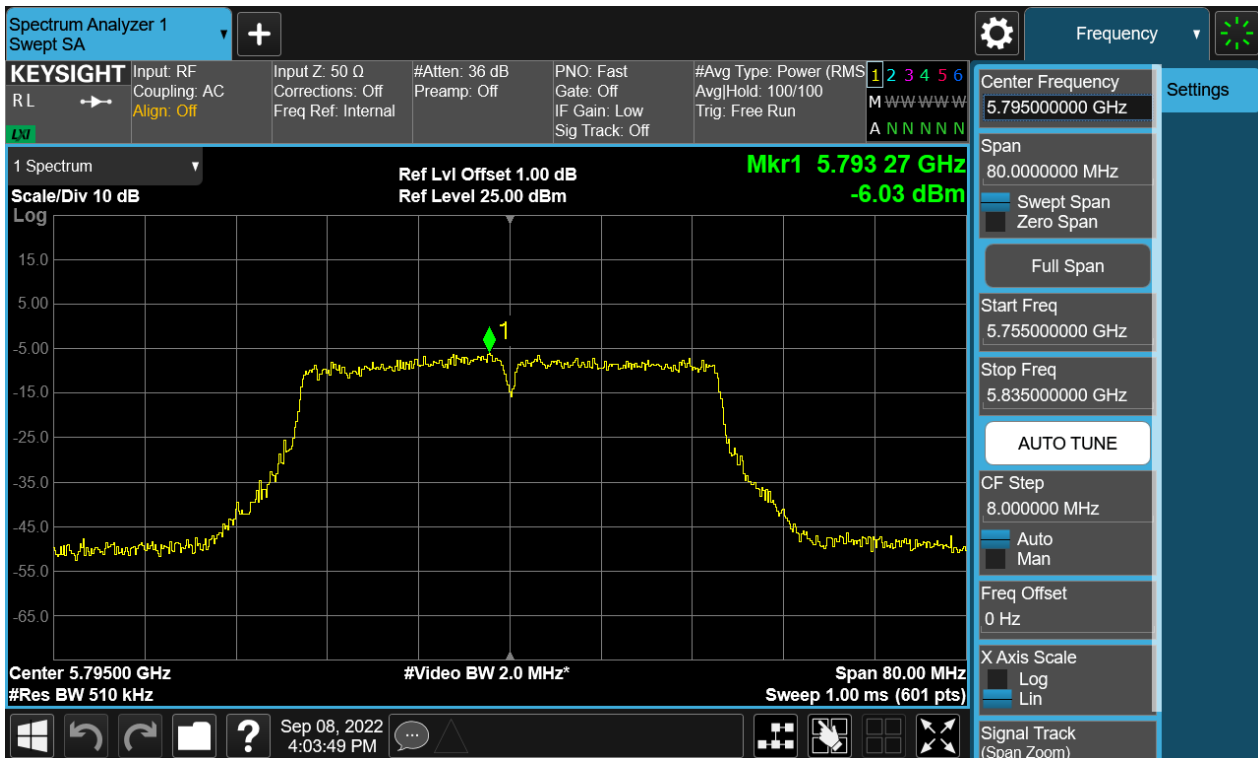
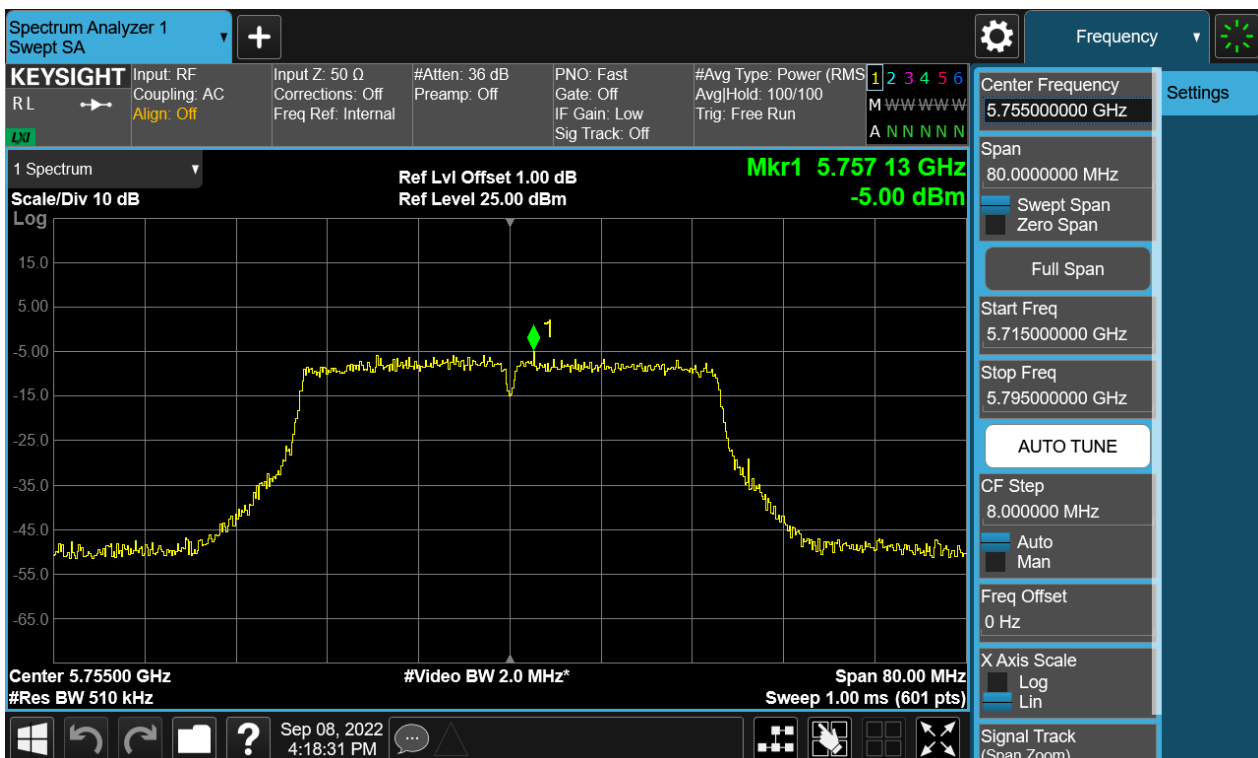


Figure 82: The plots of Power Spectral Density, 802.11ac(VHT40), 5755MHz, at Chain 2



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Figure 83: The plots of Power Spectral Density, 802.11ac(VHT40), 5795MHz, Chain 2_port

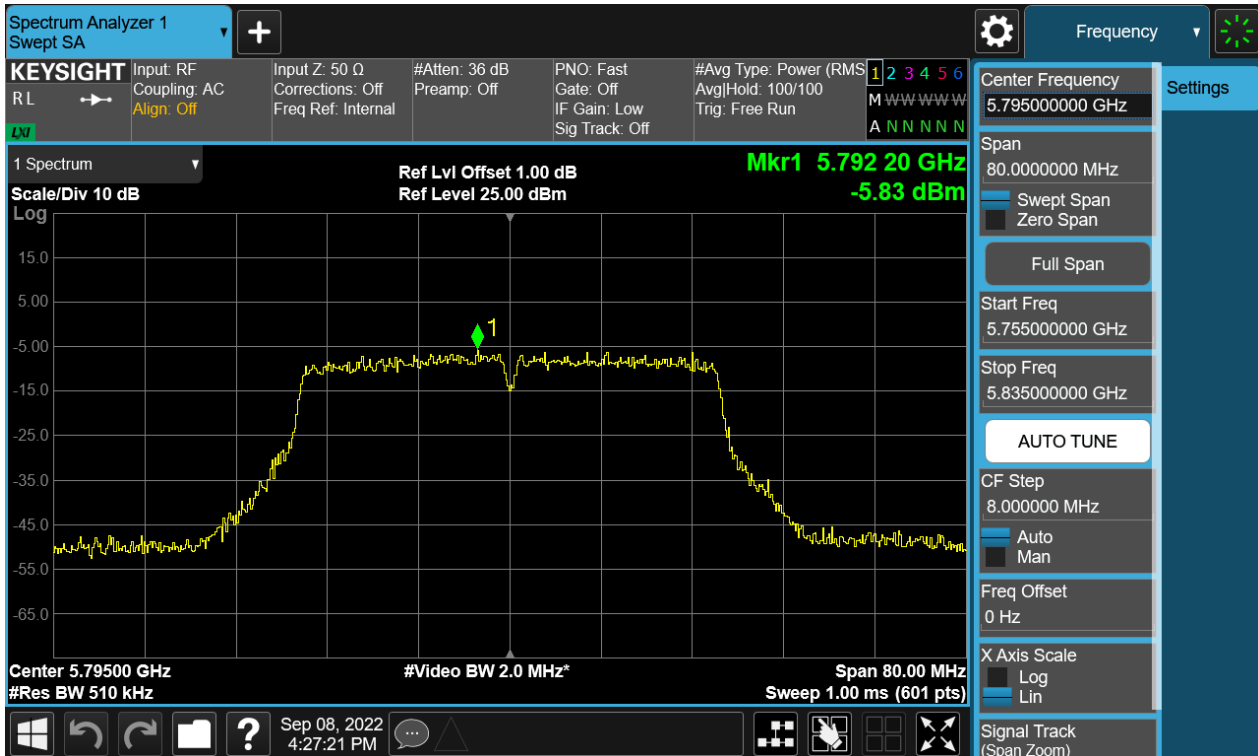
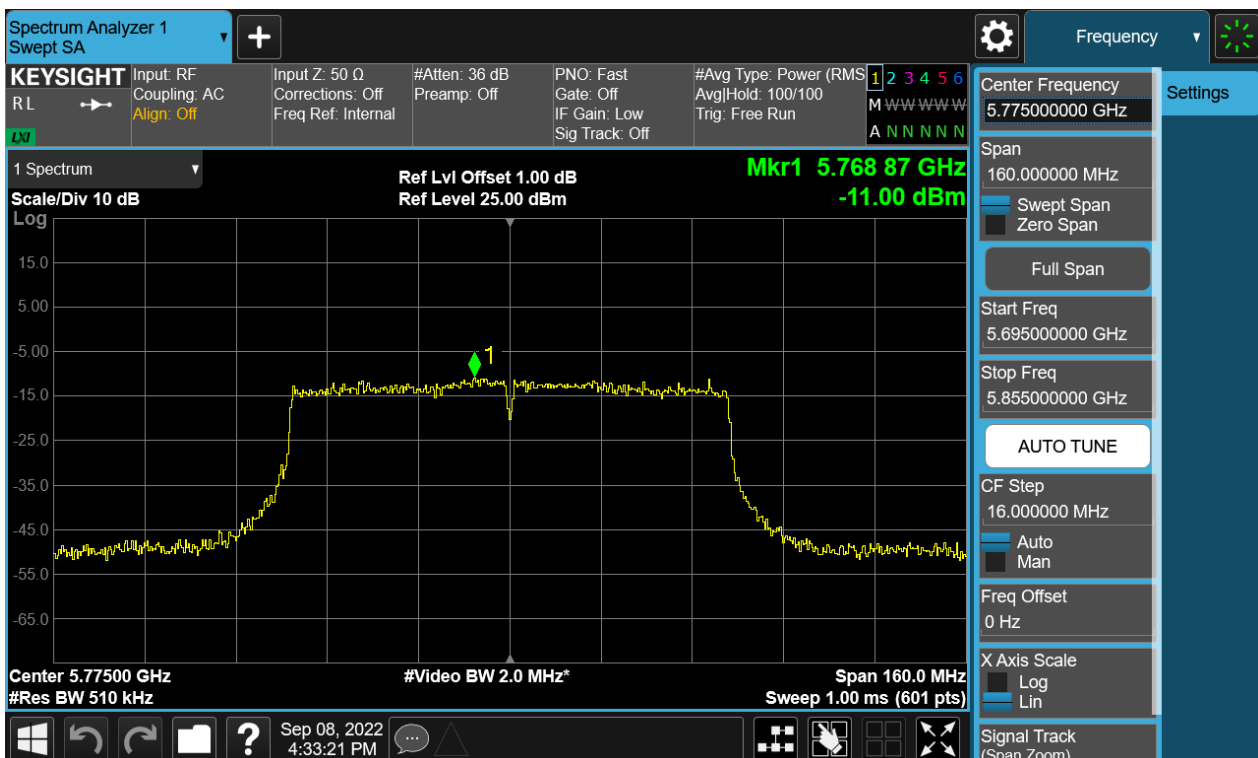


Figure 84: The plots of Power Spectral Density, 802.11ac(VHT80), 5775MHz, at Chain 2



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4.1.6 Conducted Spurious Emission

RESULT:

PASS

Test standard	: FCC Part 15.407(b), 15.209, RSS-247 6.2
Requirement	: ANSI C63.10-2013 clause 12.7.4, KDB 789033
Kind of test site	: Shielded room

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 24.5°C
Relative humidity	: 58%

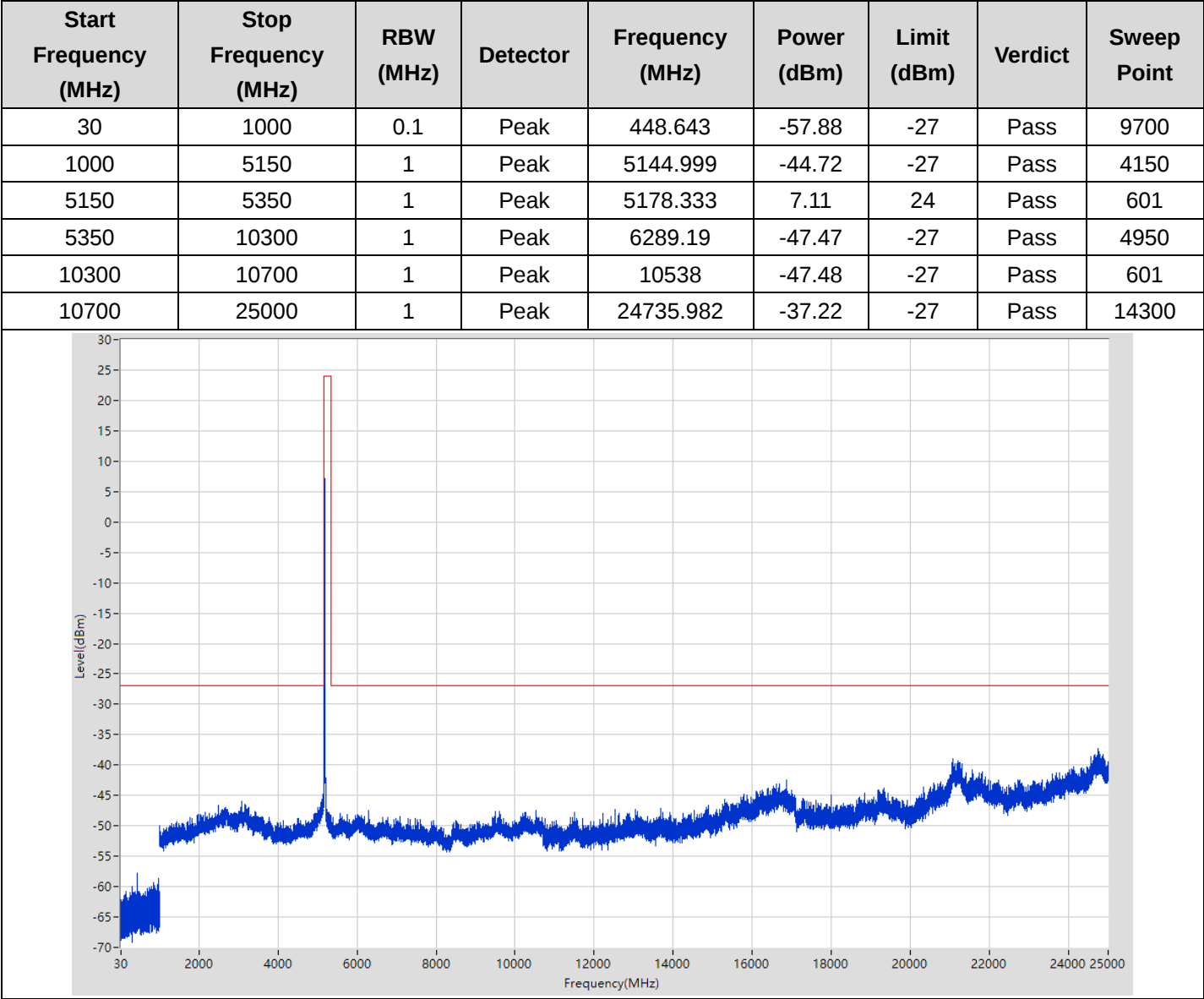
Notes

1. Two transmit chains (chain 1 and chain 2) had been tested, the chain 1 was the worst case and record in the test report.
2. The spurious emission at chain 1 is more than 3dB below the limits, so the MIMO results for the spurious emissions are comply with the requirement.
3. The spurious above 25GHz is noise only. The value has no need to be reported.

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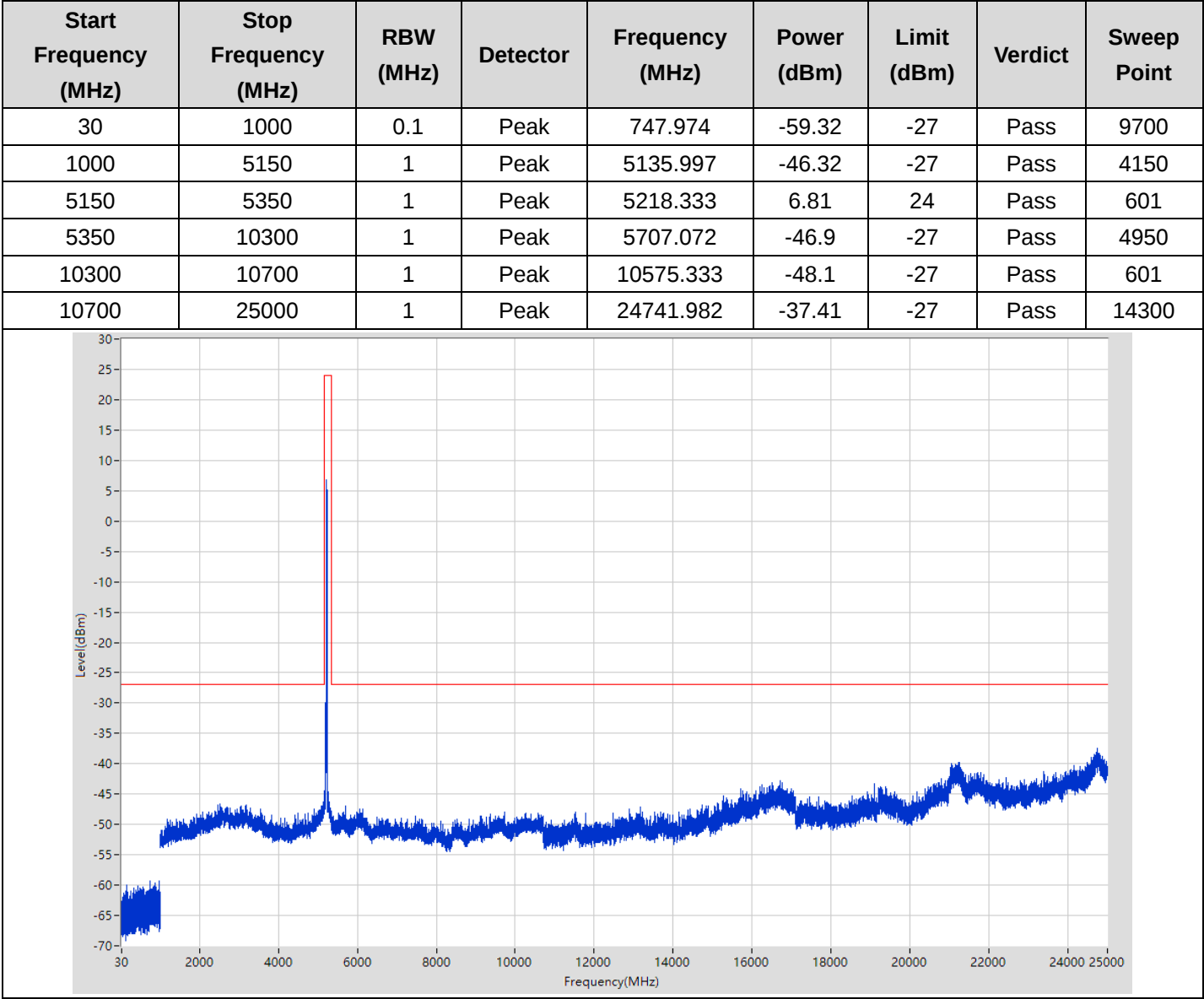
Band I (5150 – 5250 MHz)

Figure 85: The Plots of conducted spurious emission, 802.11a20, 5180MHz, at Chain 1



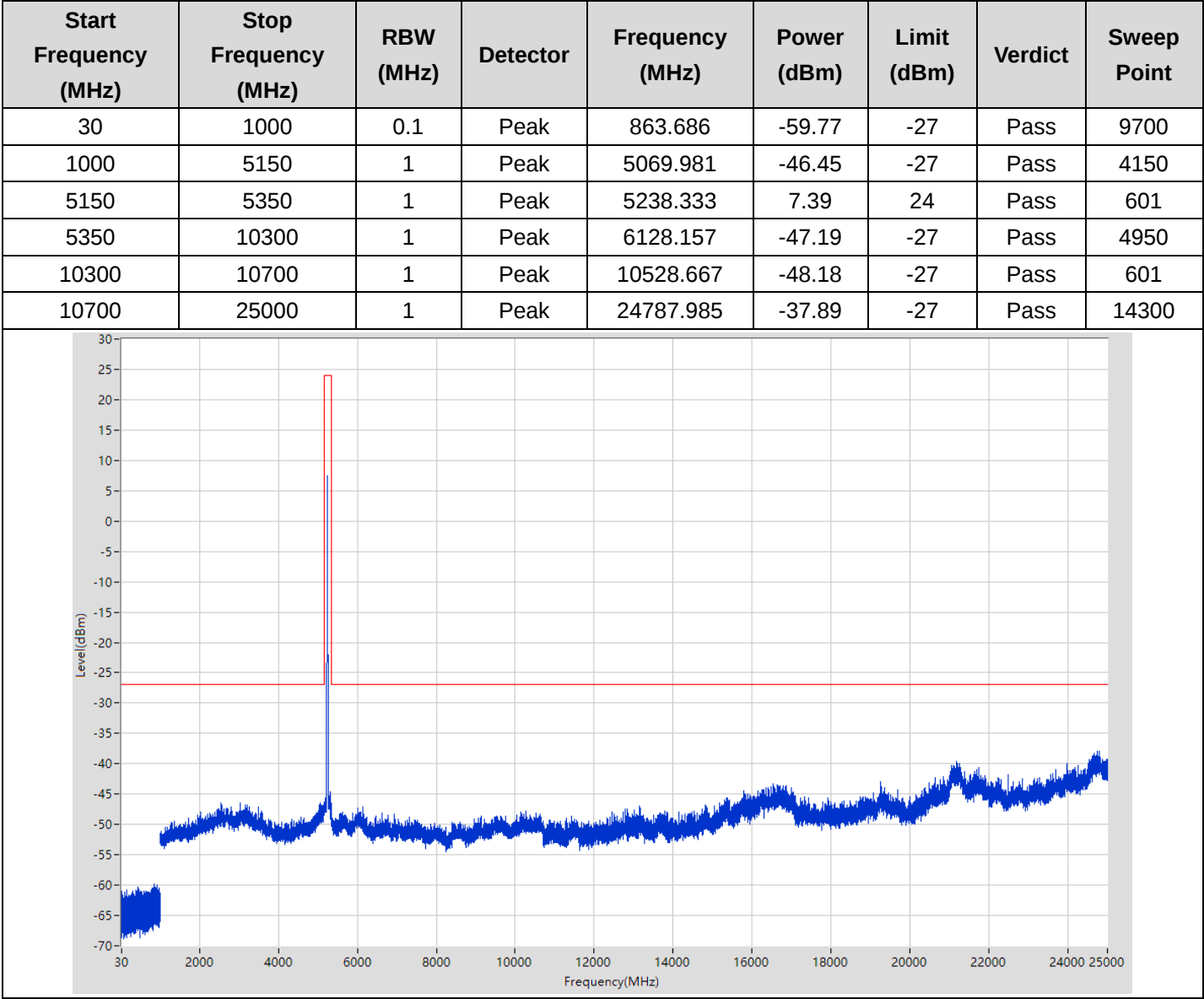
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Figure 86: The Plots of conducted spurious emission, 802.11a20, 5220MHz, at Chain 1



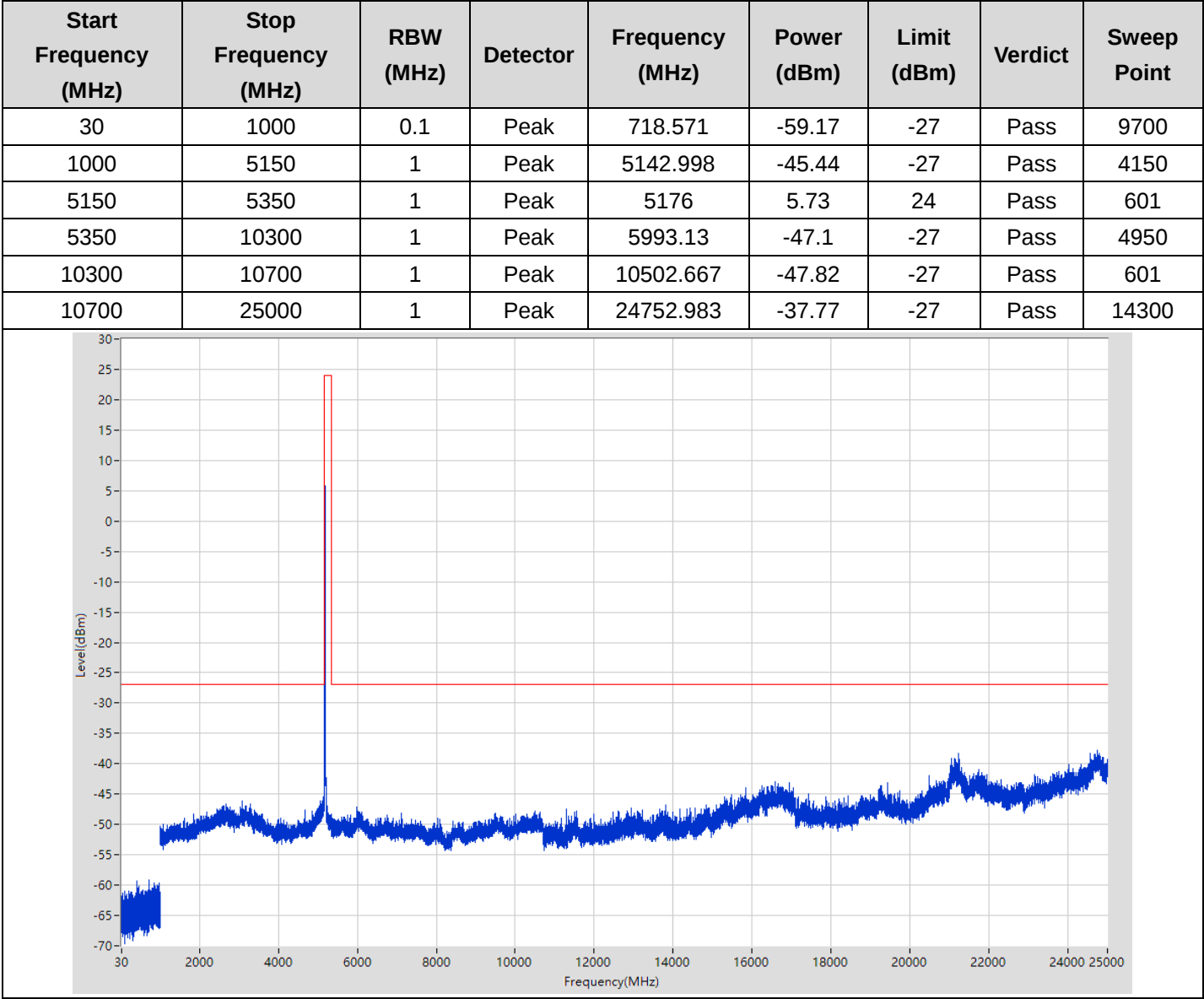
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Figure 87: The Plots of conducted spurious emission, 802.11a20, 5240MHz, at Chain 1



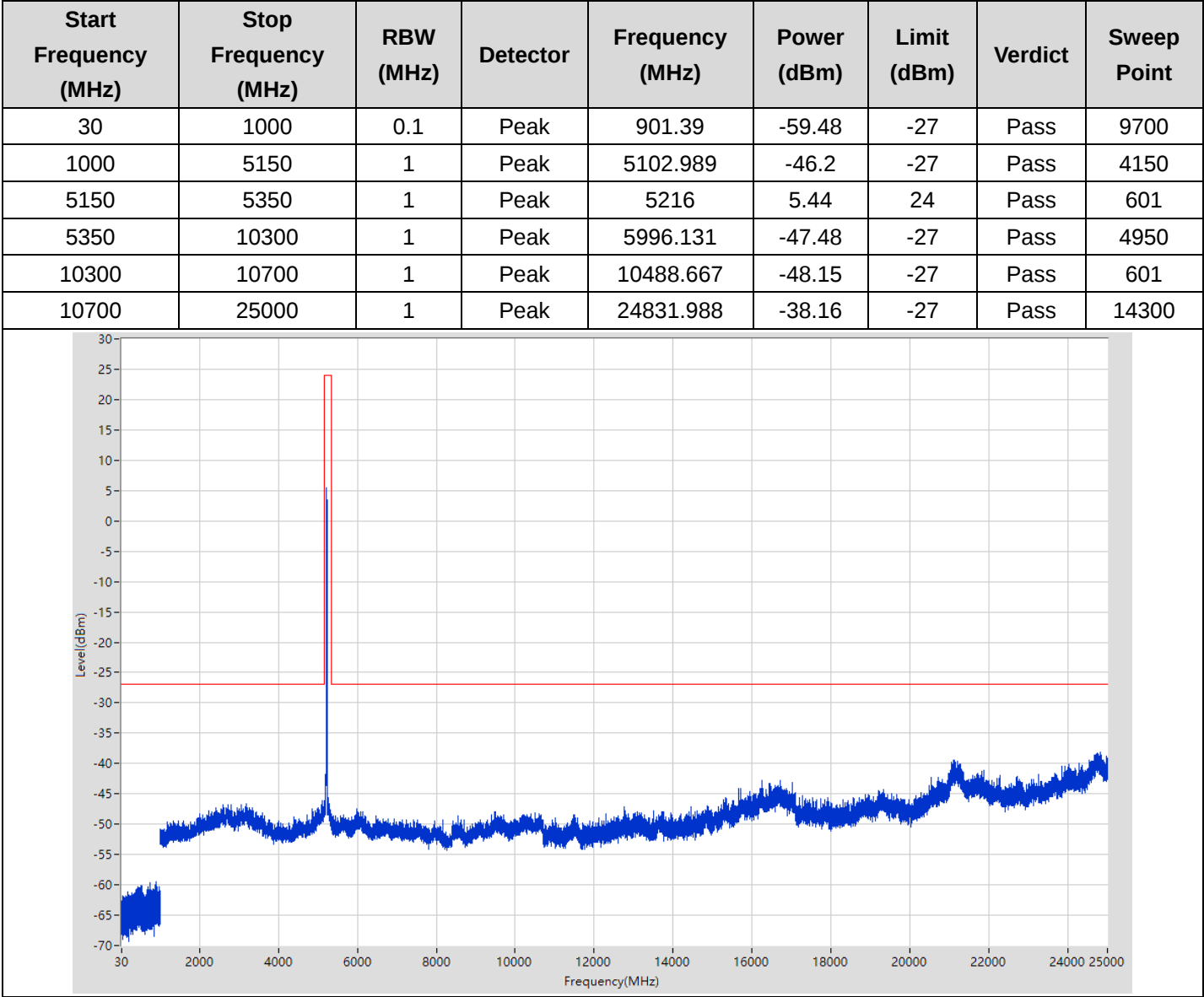
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Figure 88: The Plots of conducted spurious emission, 802.11n(HT20), 5180MHz, at Chain 1



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Figure 89: The Plots of conducted spurious emission, 802.11n(HT20), 5220MHz, at Chain 1



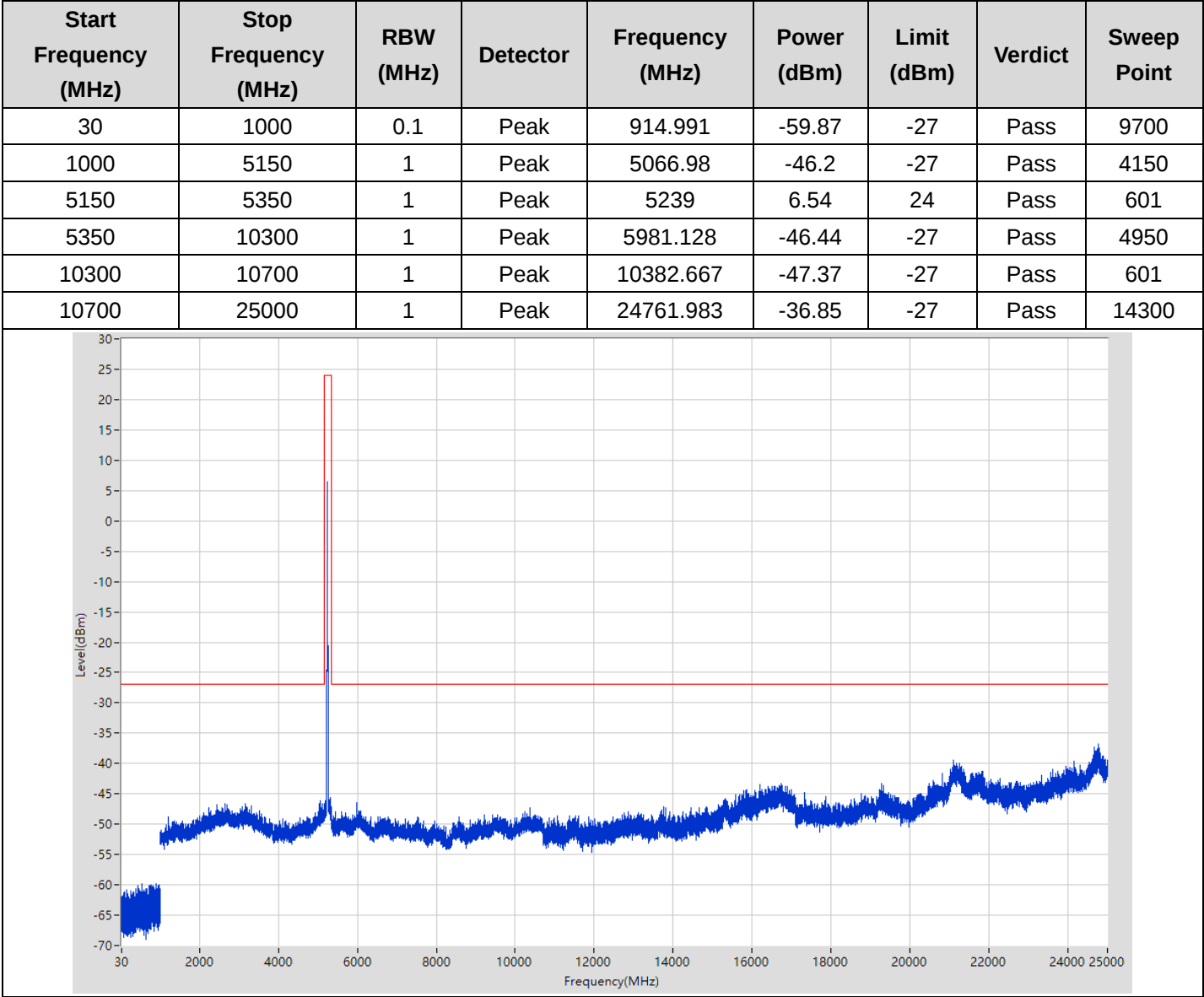
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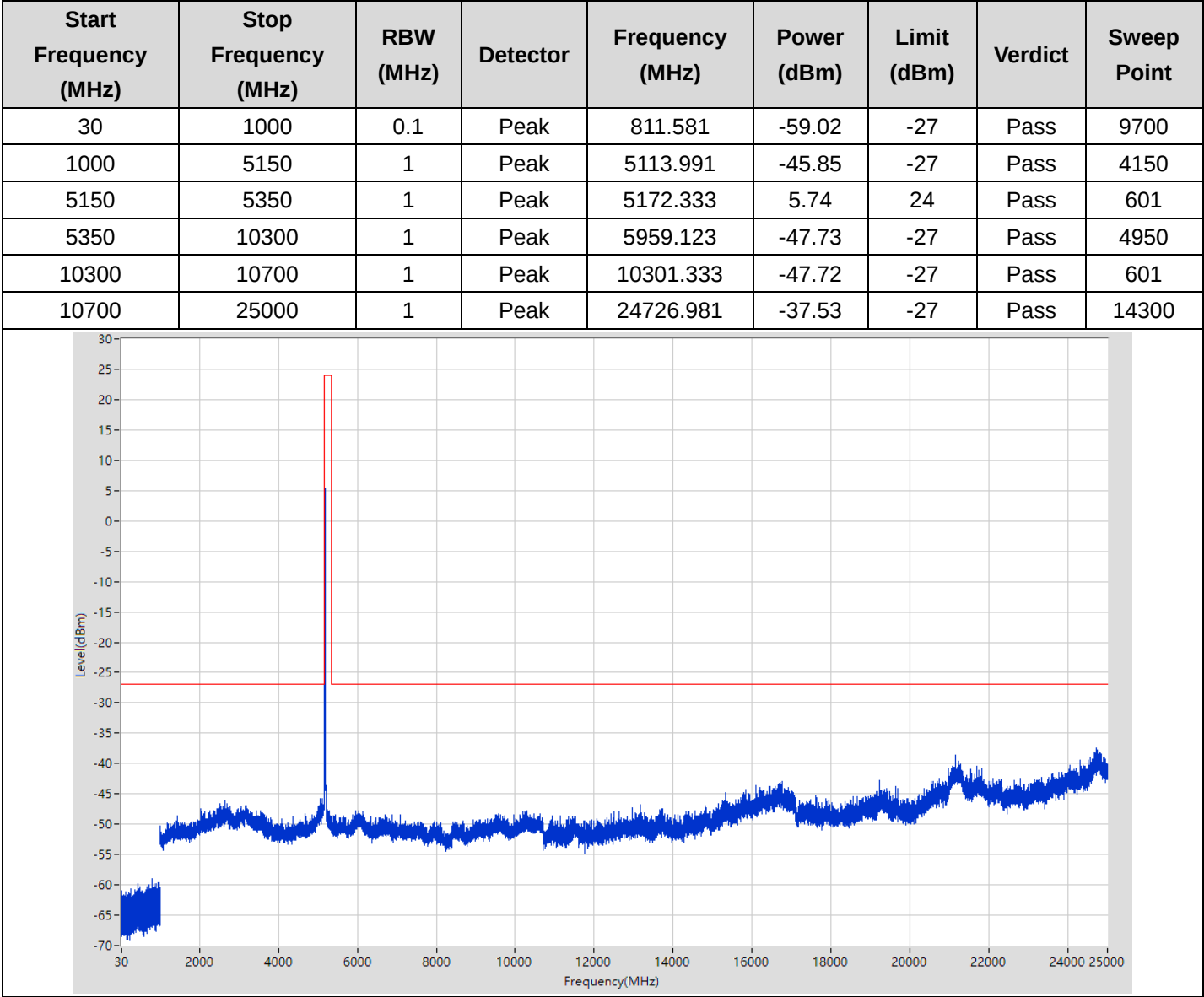
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Figure 90: The Plots of conducted spurious emission, 802.11n(HT20), 5240MHz, at Chain 1



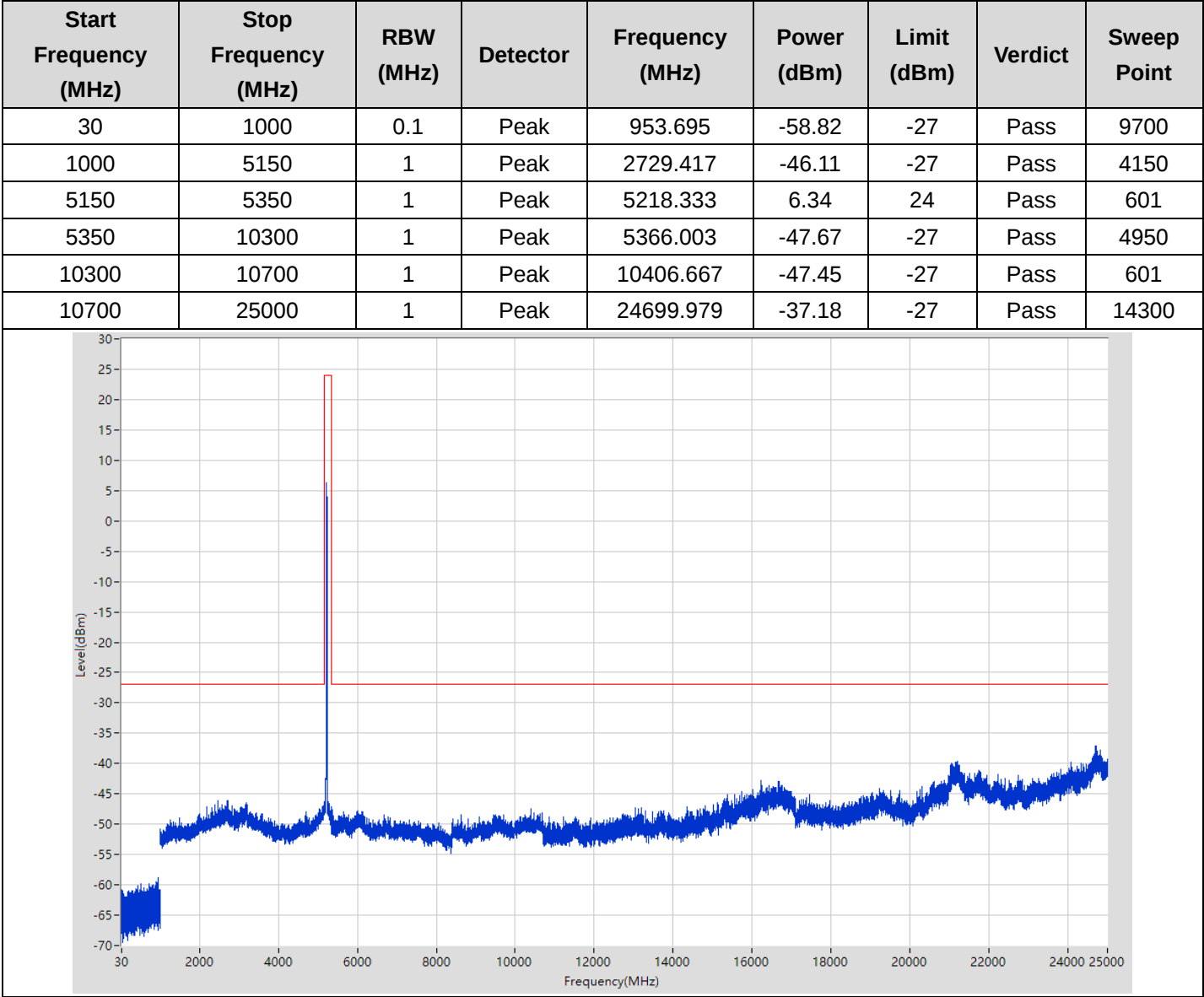
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Figure 91: The Plots of conducted spurious emission, 802.11ac(VHT20), 5180MHz, at Chain 1



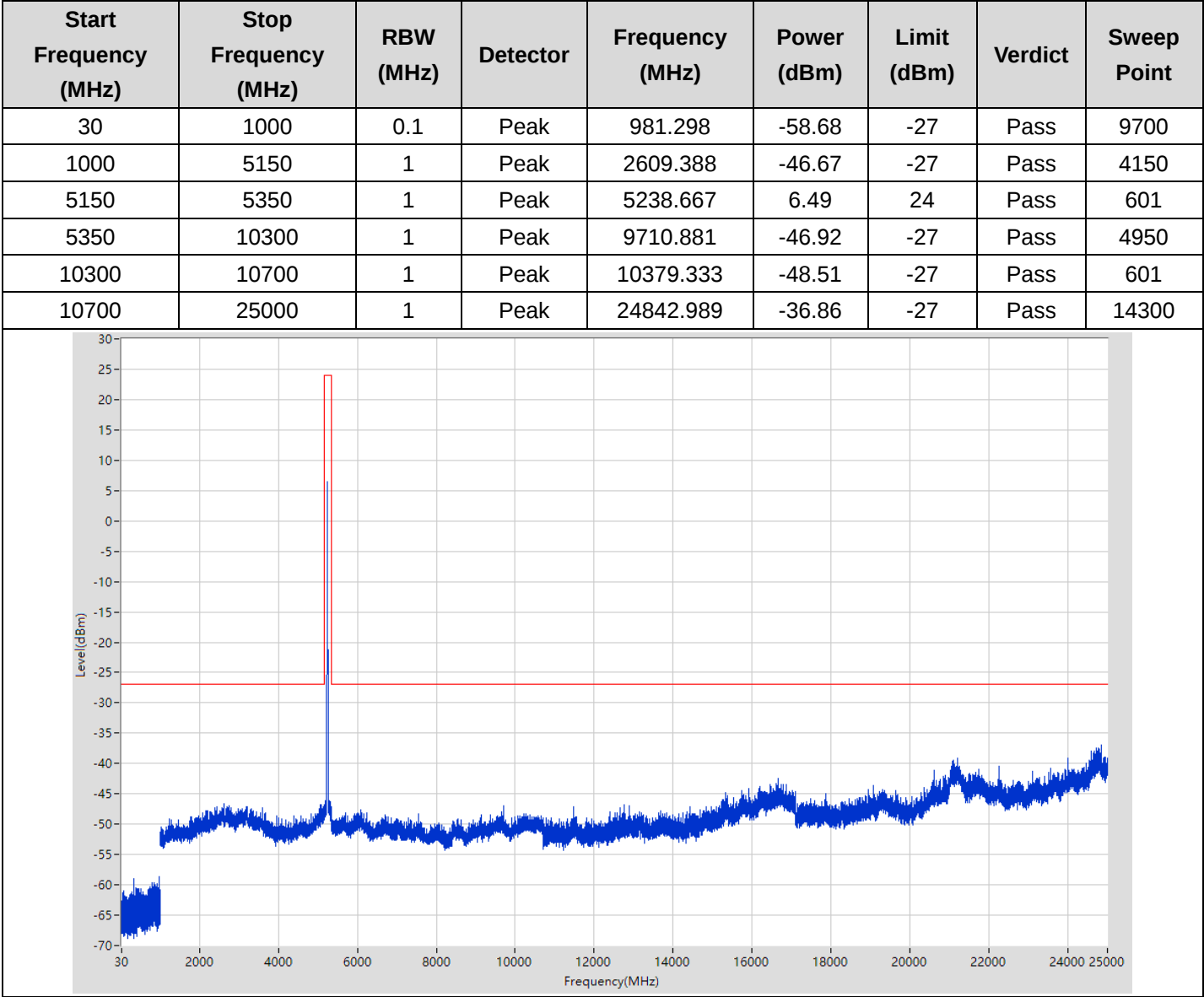
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Figure 92: The Plots of conducted spurious emission, 802.11ac(VHT20), 5220MHz, at Chain 1



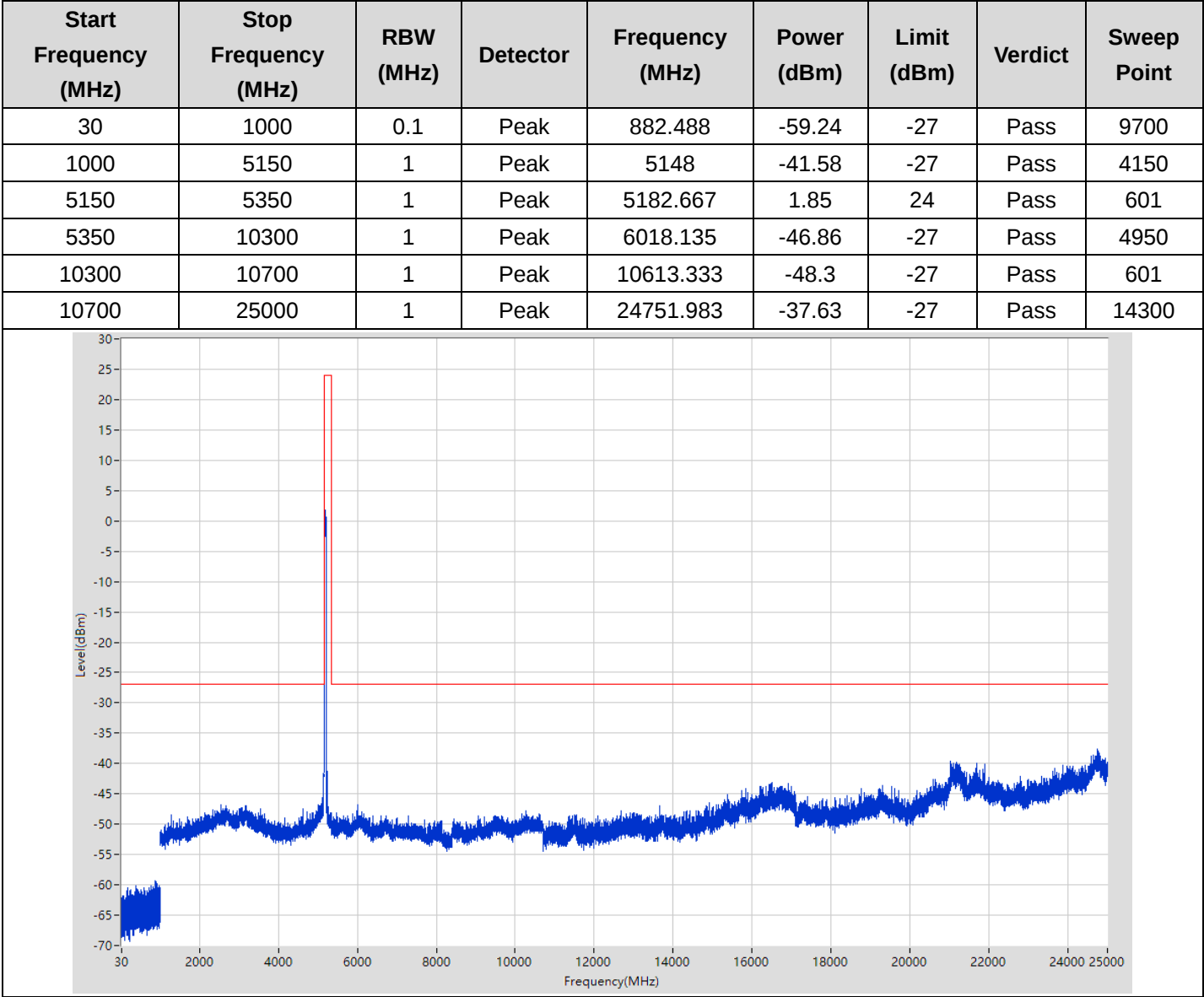
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Figure 93: The Plots of conducted spurious emission, 802.11ac(VHT20), 5240MHz, at Chain 1



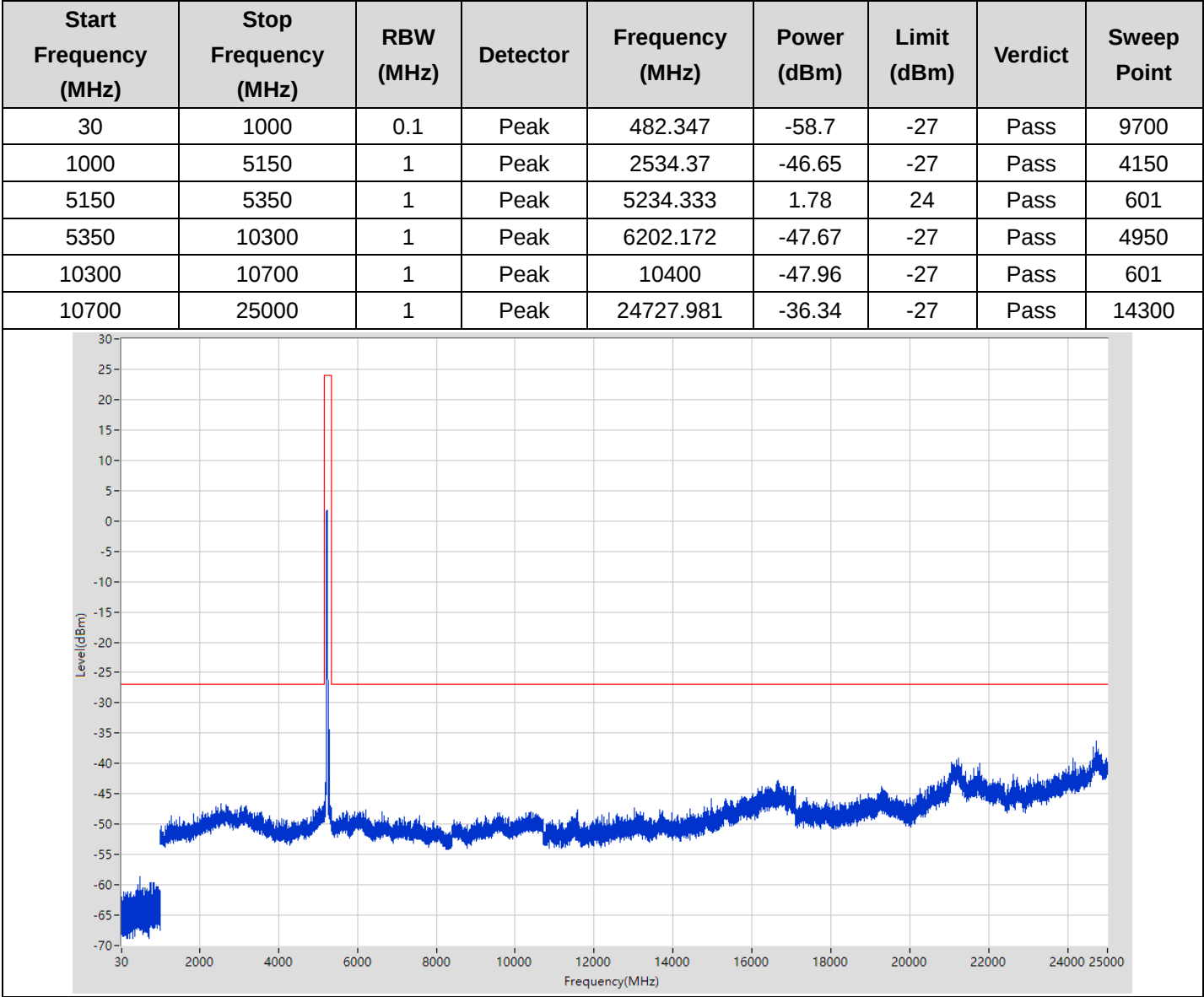
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Figure 94: The Plots of conducted spurious emission, 802.11n(HT40), 5190MHz, at Chain 1



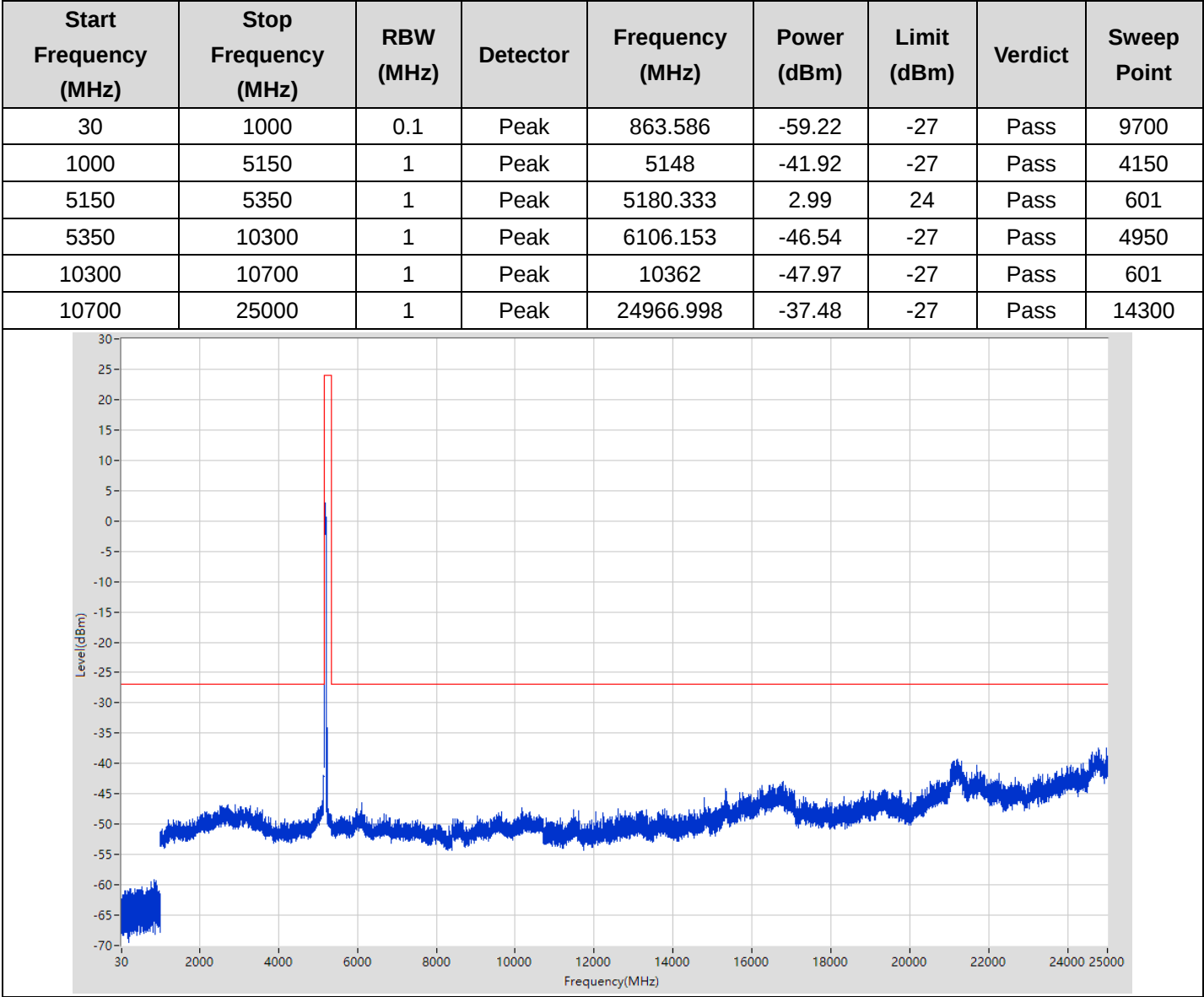
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Figure 95: The Plots of conducted spurious emission, 802.11n(HT40), 5230MHz, at Chain 1



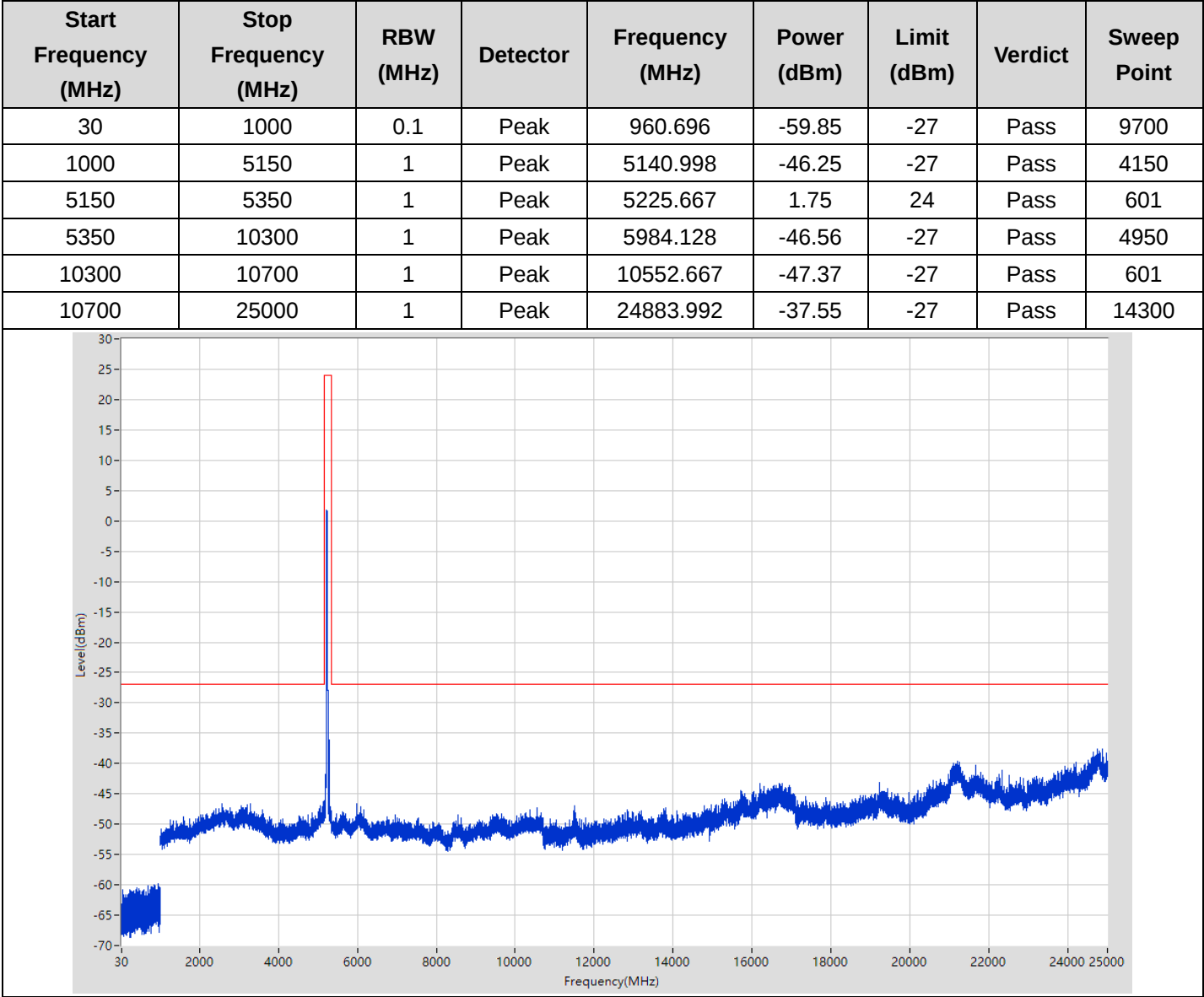
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Figure 96: The Plots of conducted spurious emission, 802.11ac(VHT40) 5190MHz, at Chain 1



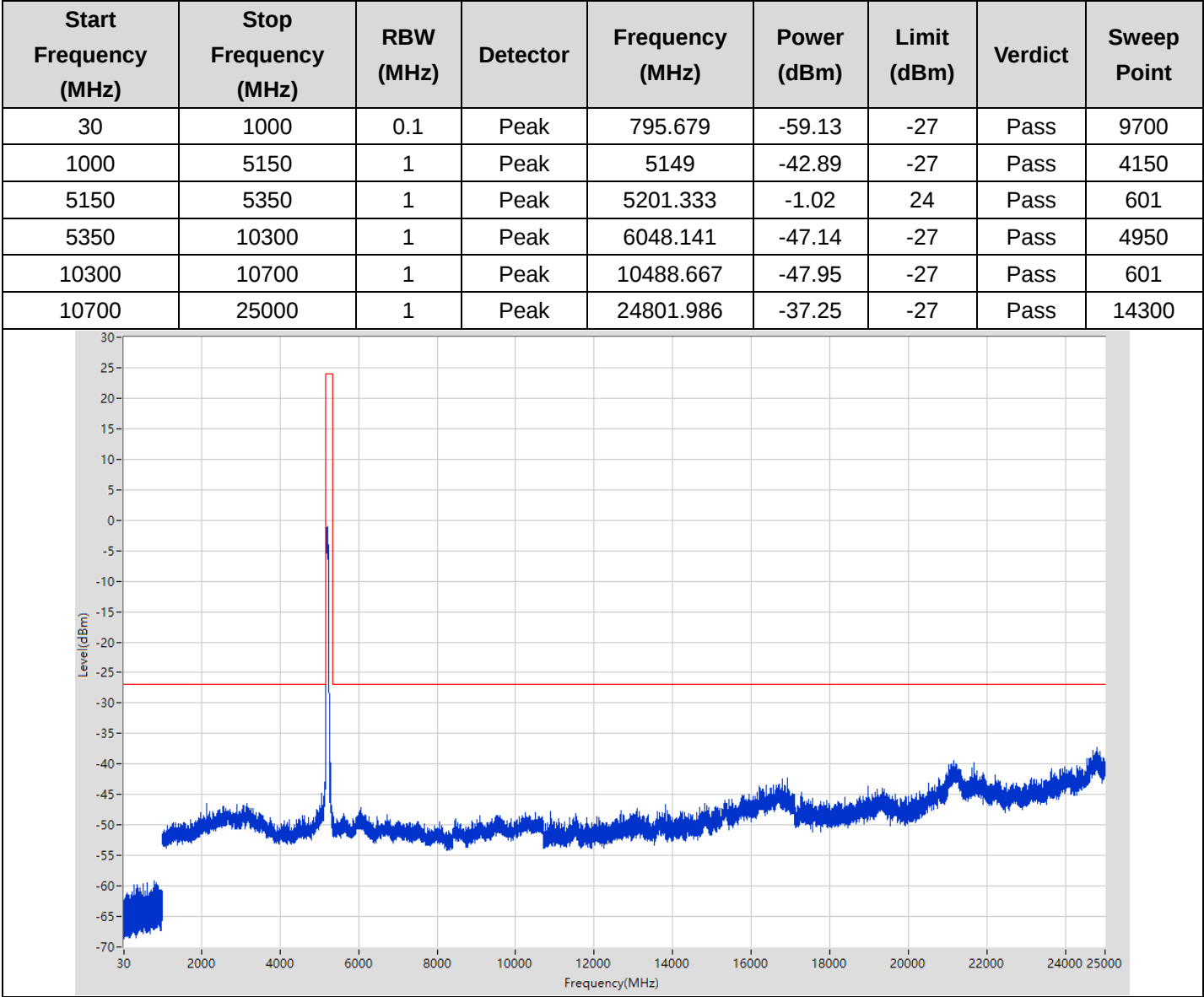
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Figure 97: The Plots of conducted spurious emission, 802.11ac(VHT40) 5230MHz, at Chain 1



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Figure 98: The Plots of conducted spurious emission, 802.11ac(VHT80) 5210MHz, at Chain 1



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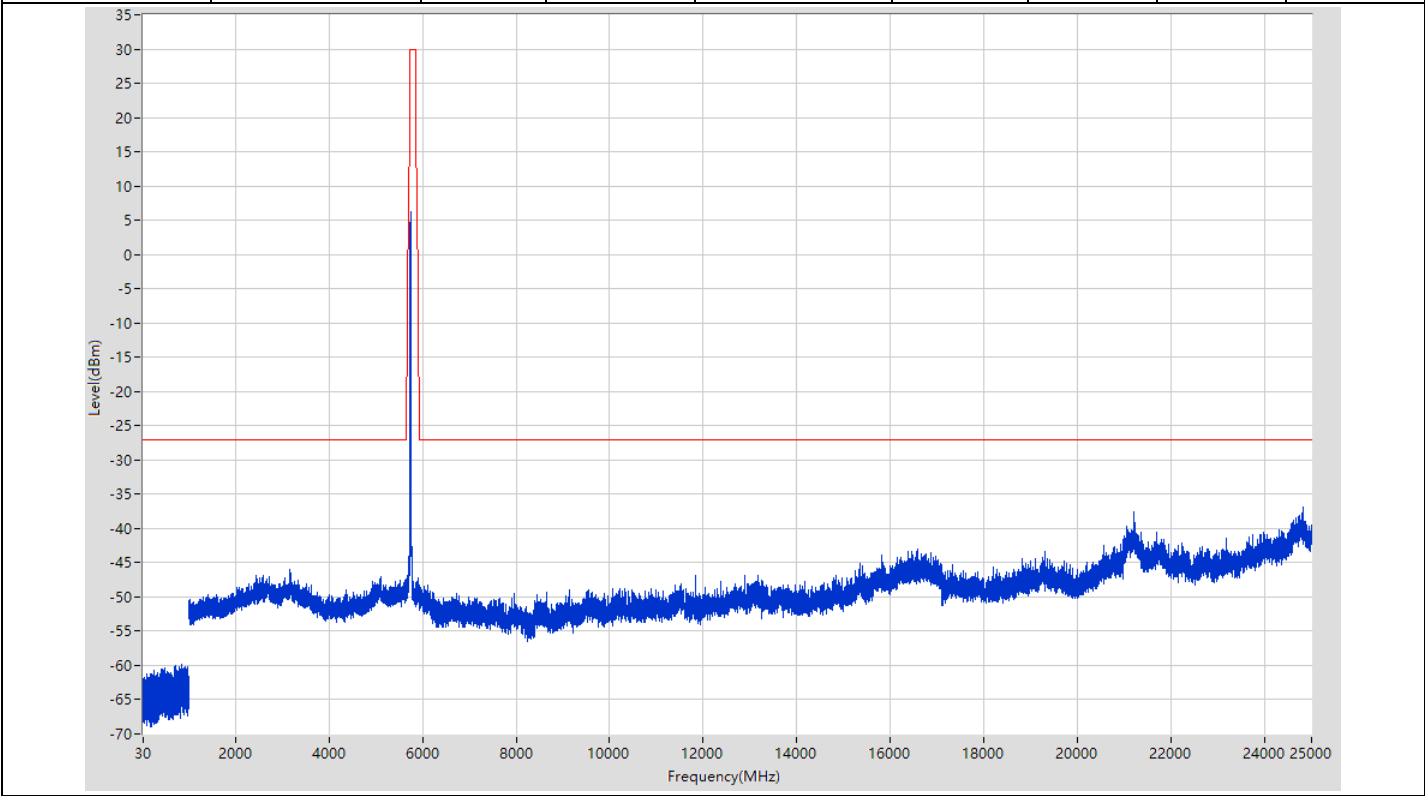
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Band IV (5725 – 5850 MHz)

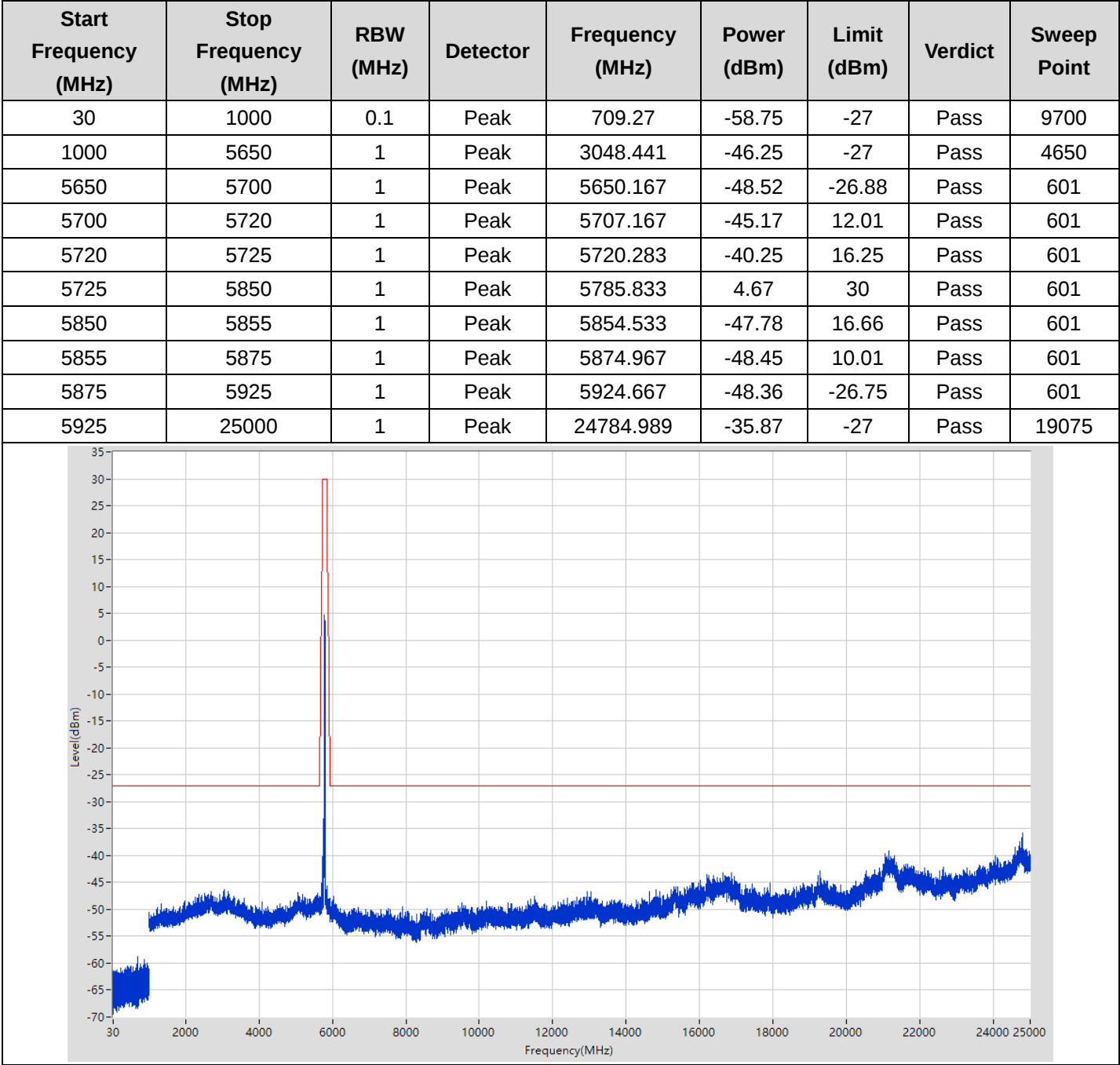
Figure 99: The Plots of conducted spurious emission, 802.11a20, 5745MHz, at Chain 1

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.1	Peak	842.184	-59.75	-27	Pass	9700
1000	5650	1	Peak	3165.466	-46.03	-27	Pass	4650
5650	5700	1	Peak	5651.833	-47.38	-25.64	Pass	601
5700	5720	1	Peak	5700.067	-46.86	10.02	Pass	601
5720	5725	1	Peak	5720.133	-30.02	15.9	Pass	601
5725	5850	1	Peak	5740.625	6.34	30	Pass	601
5850	5855	1	Peak	5854.642	-48.7	16.42	Pass	601
5855	5875	1	Peak	5874.4	-48.13	10.17	Pass	601
5875	5925	1	Peak	5924.917	-48.3	-26.94	Pass	601
5925	25000	1	Peak	24822.991	-36.8	-27	Pass	19075



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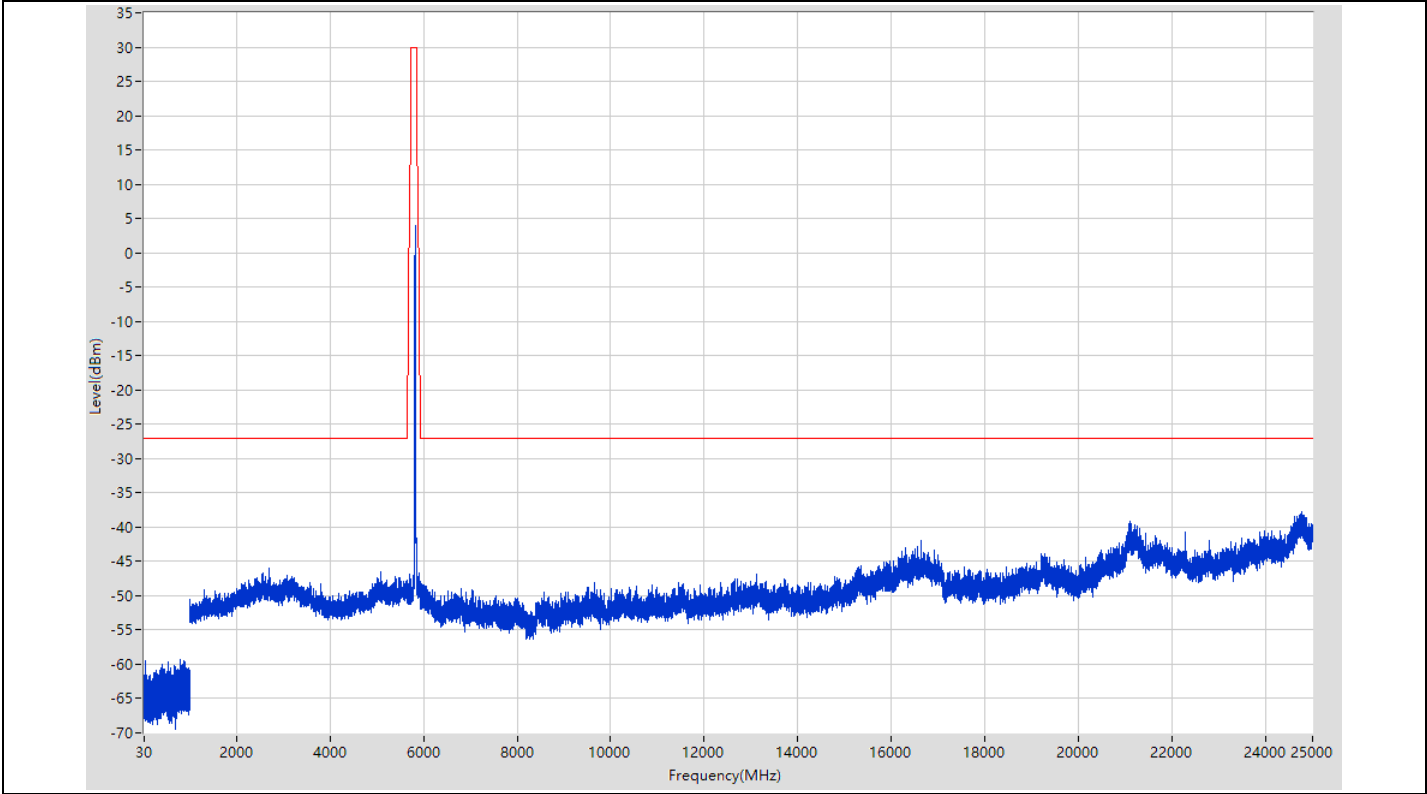
Figure 100: The Plots of conducted spurious emission, 802.11a20, 5785MHz, at Chain 1



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Figure 101: The Plots of conducted spurious emission, 802.11a20, 5825MHz, at Chain 1

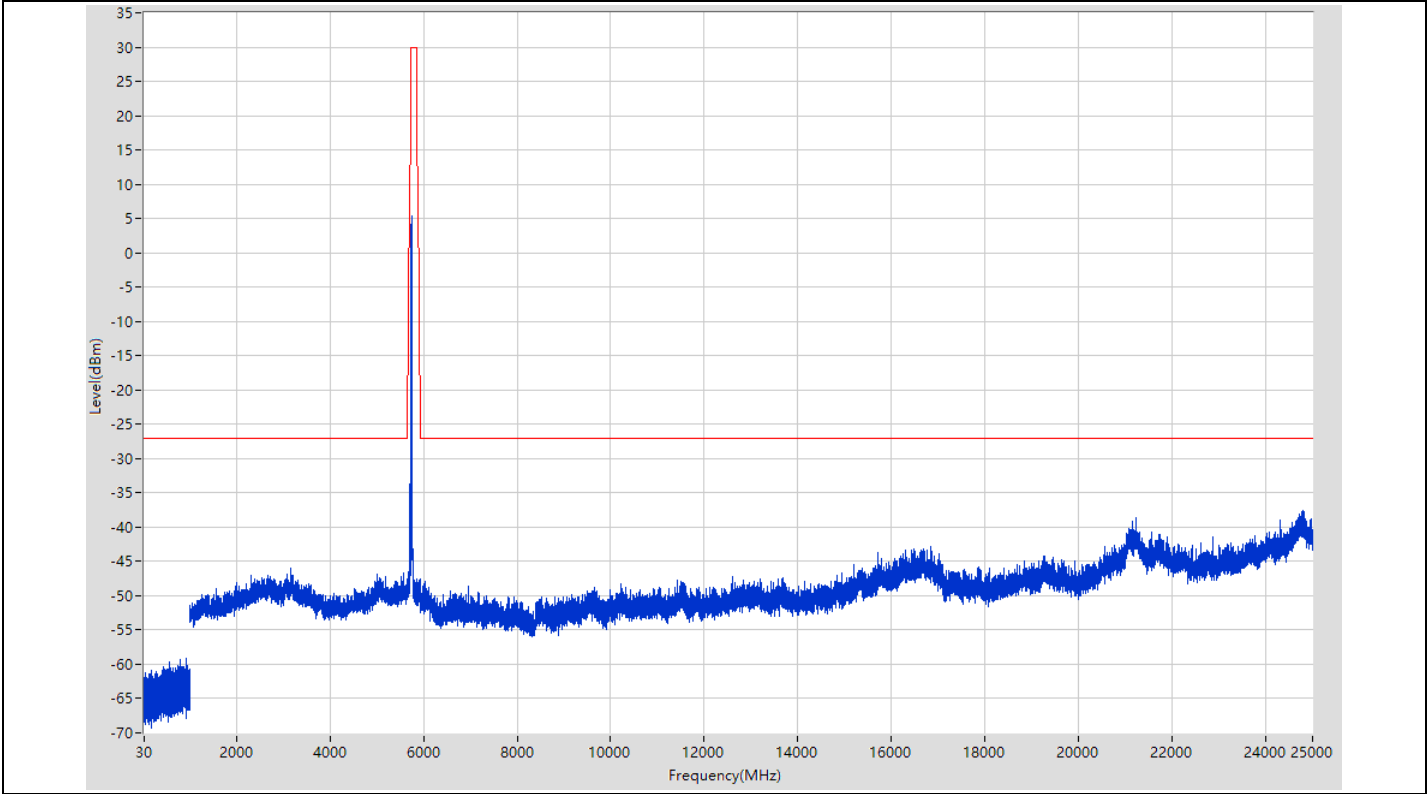
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.1	Peak	792.079	-59.32	-27	Pass	9700
1000	5650	1	Peak	2707.367	-45.94	-27	Pass	4650
5650	5700	1	Peak	5650	-49.28	-27	Pass	601
5700	5720	1	Peak	5702.5	-47.87	10.7	Pass	601
5720	5725	1	Peak	5720	-48.91	15.6	Pass	601
5725	5850	1	Peak	5823.333	3.93	30	Pass	601
5850	5855	1	Peak	5854.933	-46.39	15.75	Pass	601
5855	5875	1	Peak	5874.433	-47.58	10.16	Pass	601
5875	5925	1	Peak	5925	-48.55	-27	Pass	601
5925	25000	1	Peak	24774.988	-37.77	-27	Pass	19075



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Figure 102: The Plots of conducted spurious emission, 802.11n(HT20), 5745MHz, at Chain 1

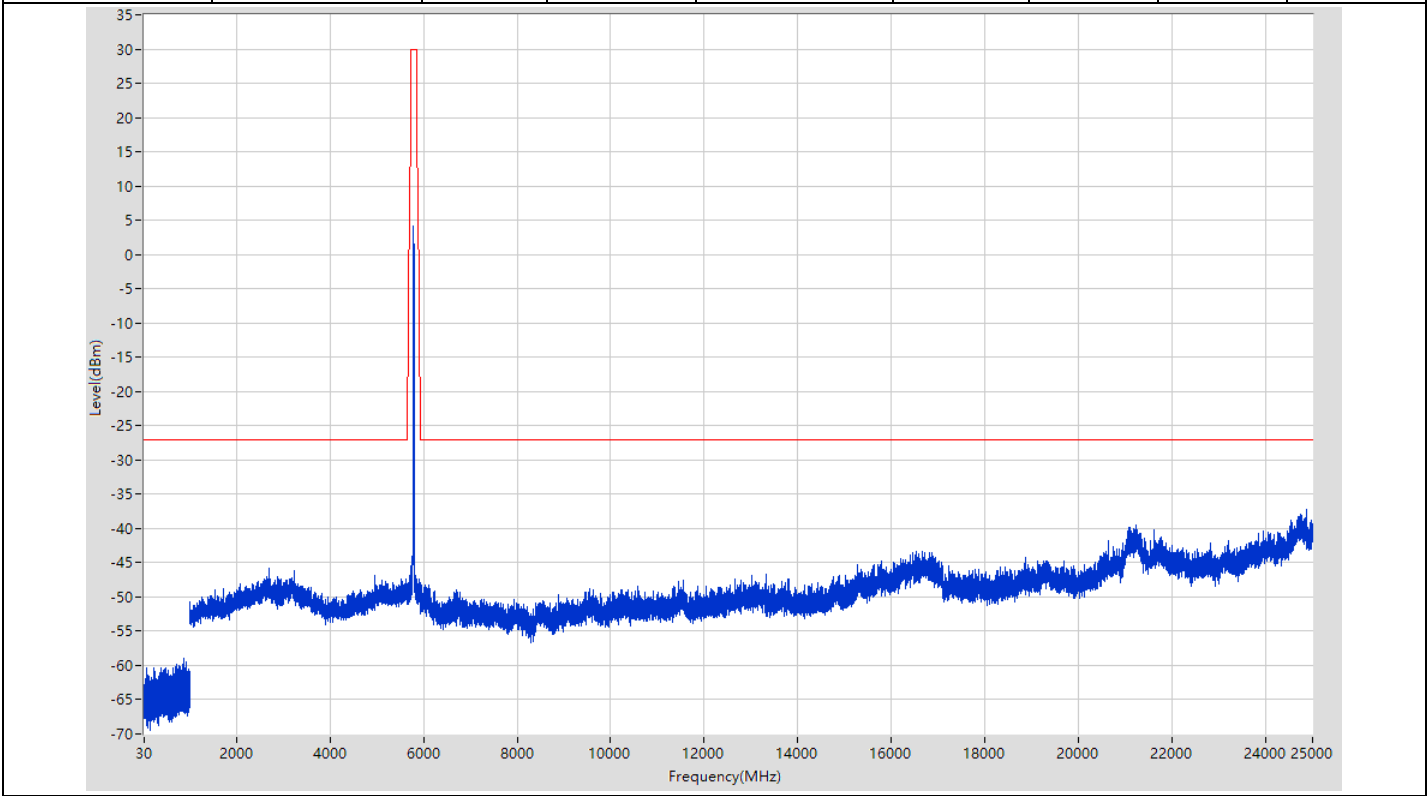
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.1	Peak	938.294	-59.21	-27	Pass	9700
1000	5650	1	Peak	3171.467	-46.01	-27	Pass	4650
5650	5700	1	Peak	5650.333	-48.93	-26.75	Pass	601
5700	5720	1	Peak	5705.167	-34.52	11.45	Pass	601
5720	5725	1	Peak	5723.242	-28.63	22.99	Pass	601
5725	5850	1	Peak	5743.958	5.42	30	Pass	601
5850	5855	1	Peak	5854.875	-49.23	15.88	Pass	601
5855	5875	1	Peak	5874.967	-48.64	10.01	Pass	601
5875	5925	1	Peak	5924.833	-48.53	-26.88	Pass	601
5925	25000	1	Peak	24791.989	-37.61	-27	Pass	19075



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Figure 103: The Plots of conducted spurious emission, 802.11n(HT20), 5785MHz, at Chain 1

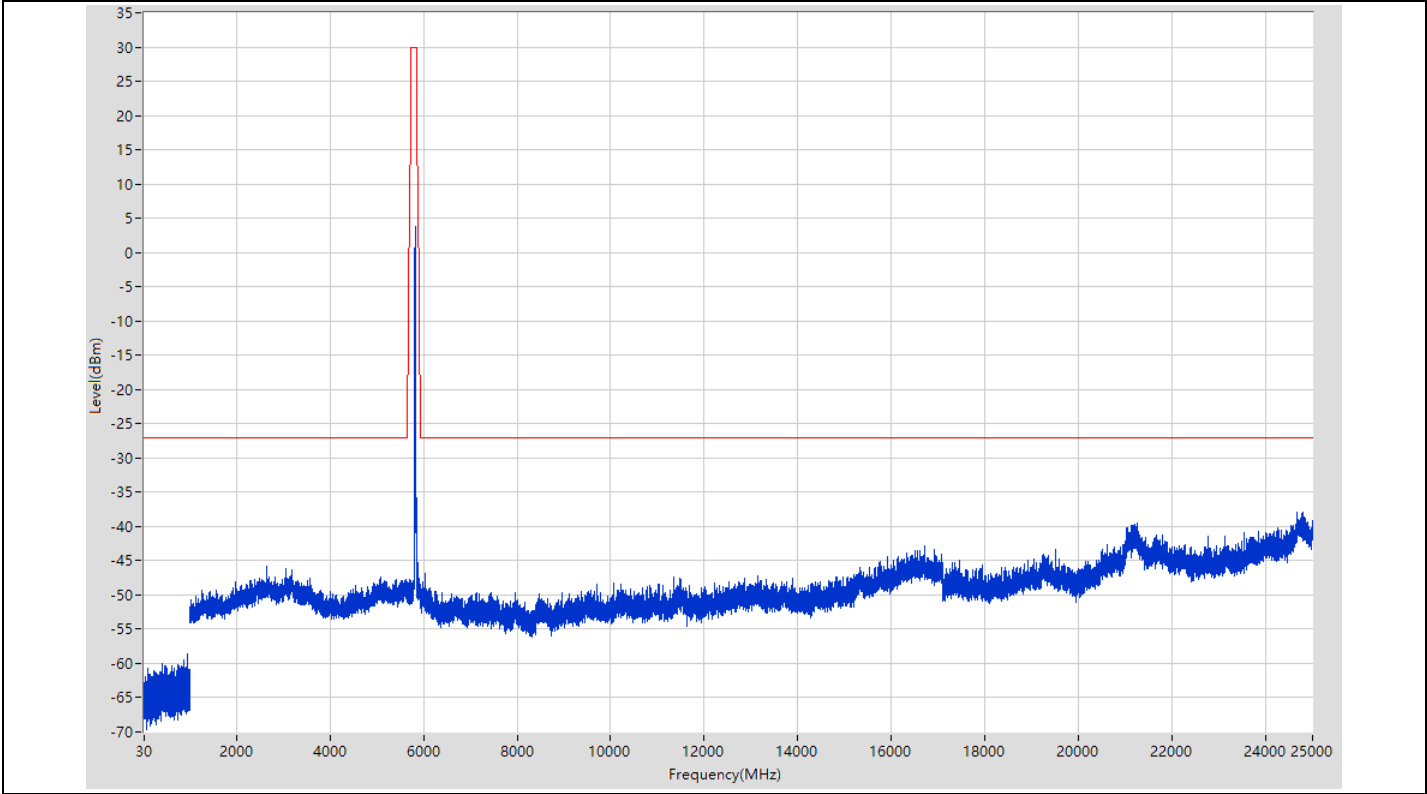
Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.1	Peak	884.588	-58.89	-27	Pass	9700
1000	5650	1	Peak	2694.364	-45.87	-27	Pass	4650
5650	5700	1	Peak	5650	-48.82	-27	Pass	601
5700	5720	1	Peak	5700.833	-47.64	10.23	Pass	601
5720	5725	1	Peak	5720.208	-47.01	16.07	Pass	601
5725	5850	1	Peak	5785.208	4.13	30	Pass	601
5850	5855	1	Peak	5854.8	-48.16	16.06	Pass	601
5855	5875	1	Peak	5874.633	-48.13	10.1	Pass	601
5875	5925	1	Peak	5924.917	-48.68	-26.94	Pass	601
5925	25000	1	Peak	24860.993	-37.28	-27	Pass	19075



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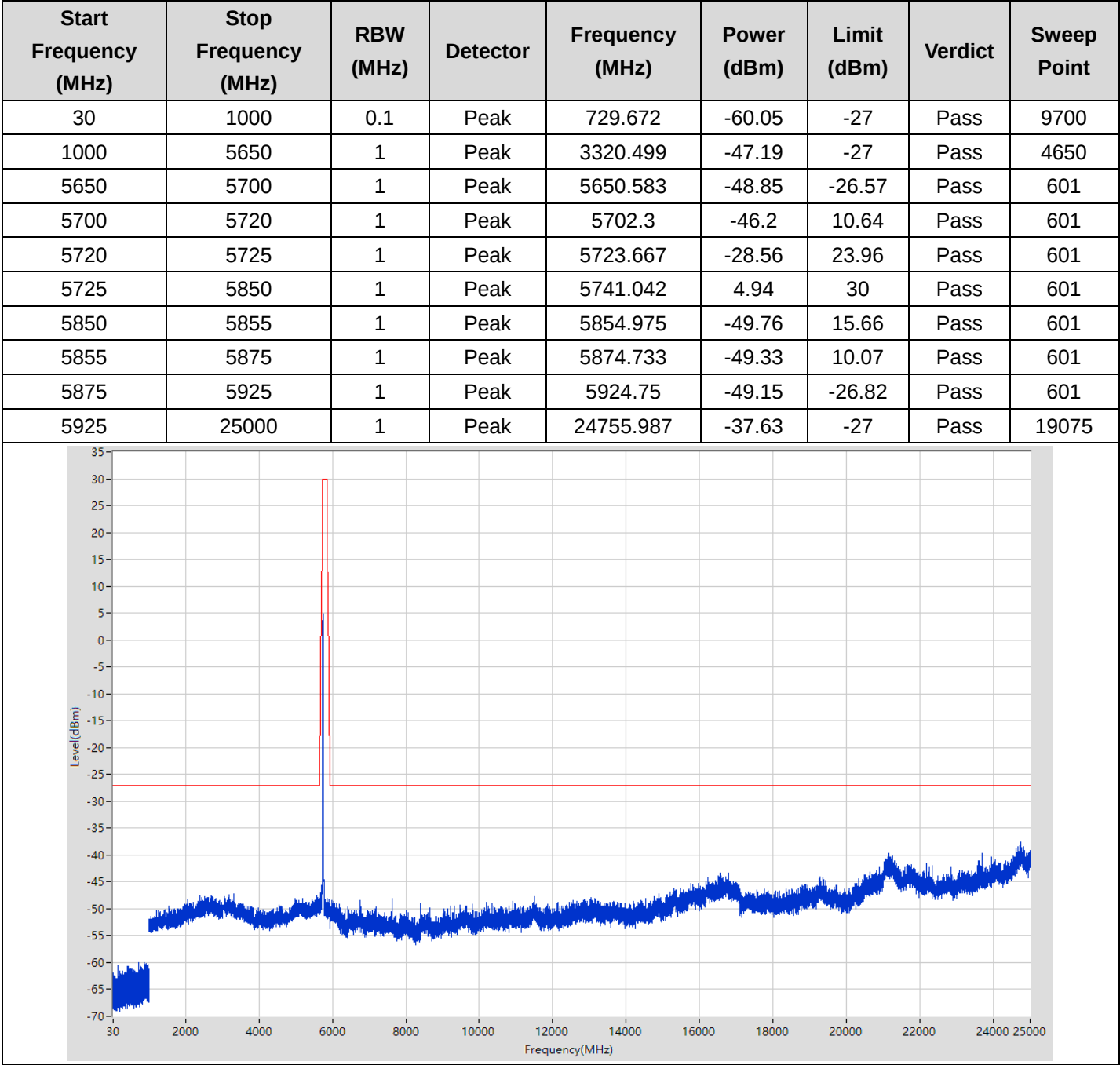
Figure 104: The Plots of conducted spurious emission, 802.11n(HT20), 5825MHz, at Chain 1

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.1	Peak	956.295	-58.59	-27	Pass	9700
1000	5650	1	Peak	2641.353	-45.85	-27	Pass	4650
5650	5700	1	Peak	5650	-49.17	-27	Pass	601
5700	5720	1	Peak	5700.467	-48.7	10.13	Pass	601
5720	5725	1	Peak	5720.008	-48.44	15.62	Pass	601
5725	5850	1	Peak	5825.208	3.84	30	Pass	601
5850	5855	1	Peak	5853.025	-35.88	20.1	Pass	601
5855	5875	1	Peak	5874.967	-47.47	10.01	Pass	601
5875	5925	1	Peak	5925	-49.08	-27	Pass	601
5925	25000	1	Peak	24663.982	-37.95	-27	Pass	19075



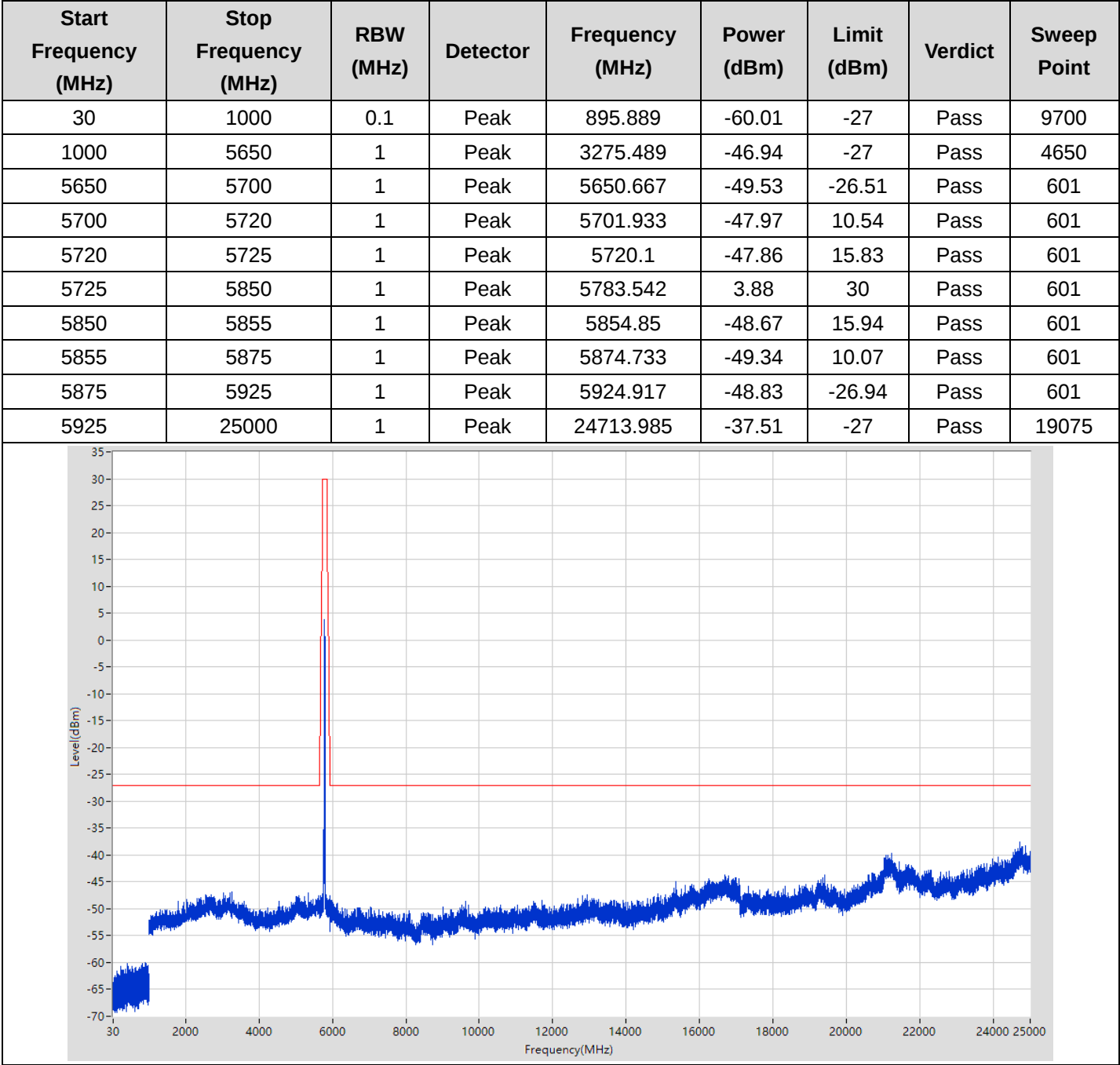
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Figure 105: The Plots of conducted spurious emission, 802.11ac(VHT20), 5745MHz, at Chain 1



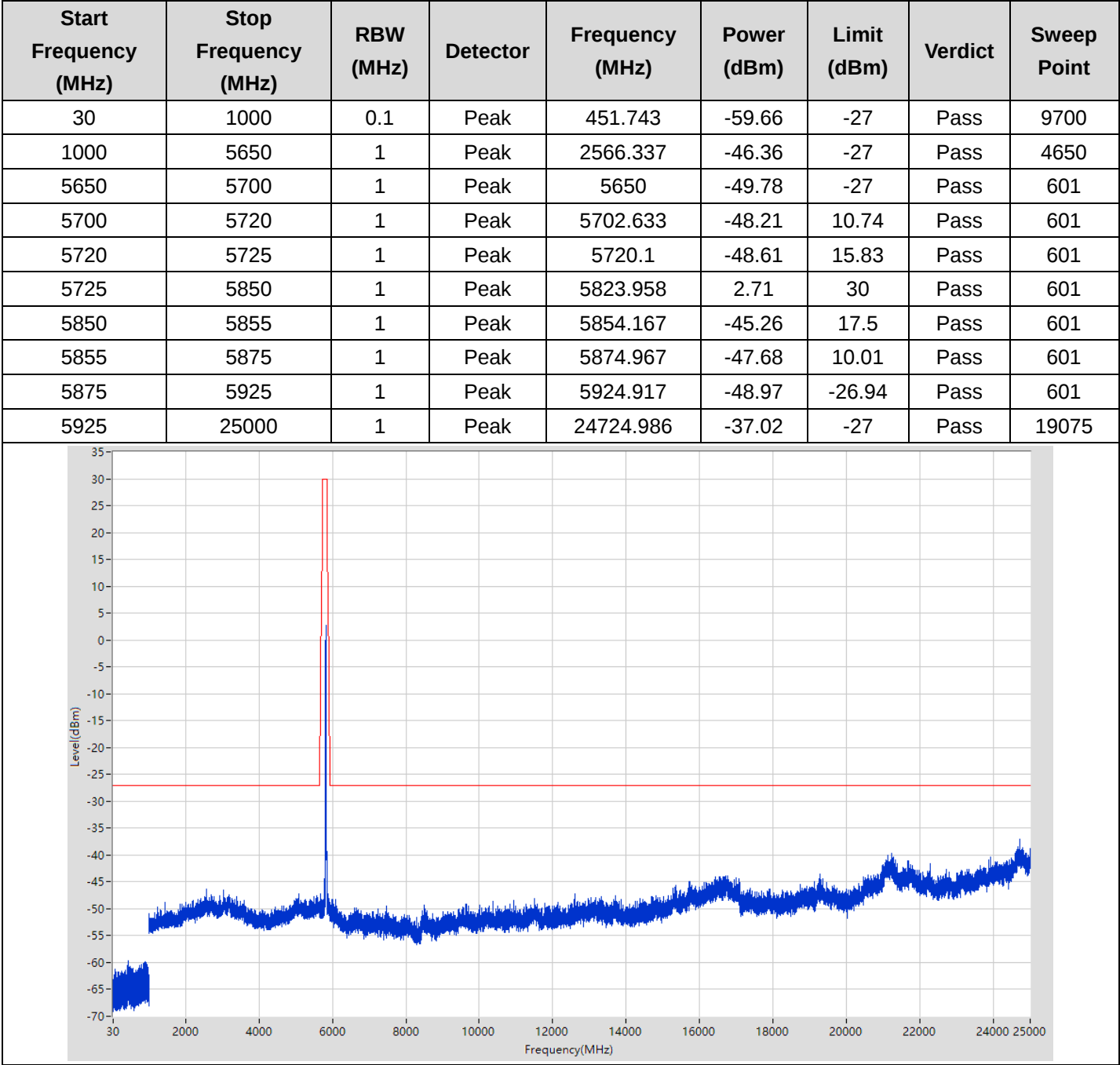
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Figure 106: The Plots of conducted spurious emission, 802.11ac(VHT20), 5785MHz, at Chain 1



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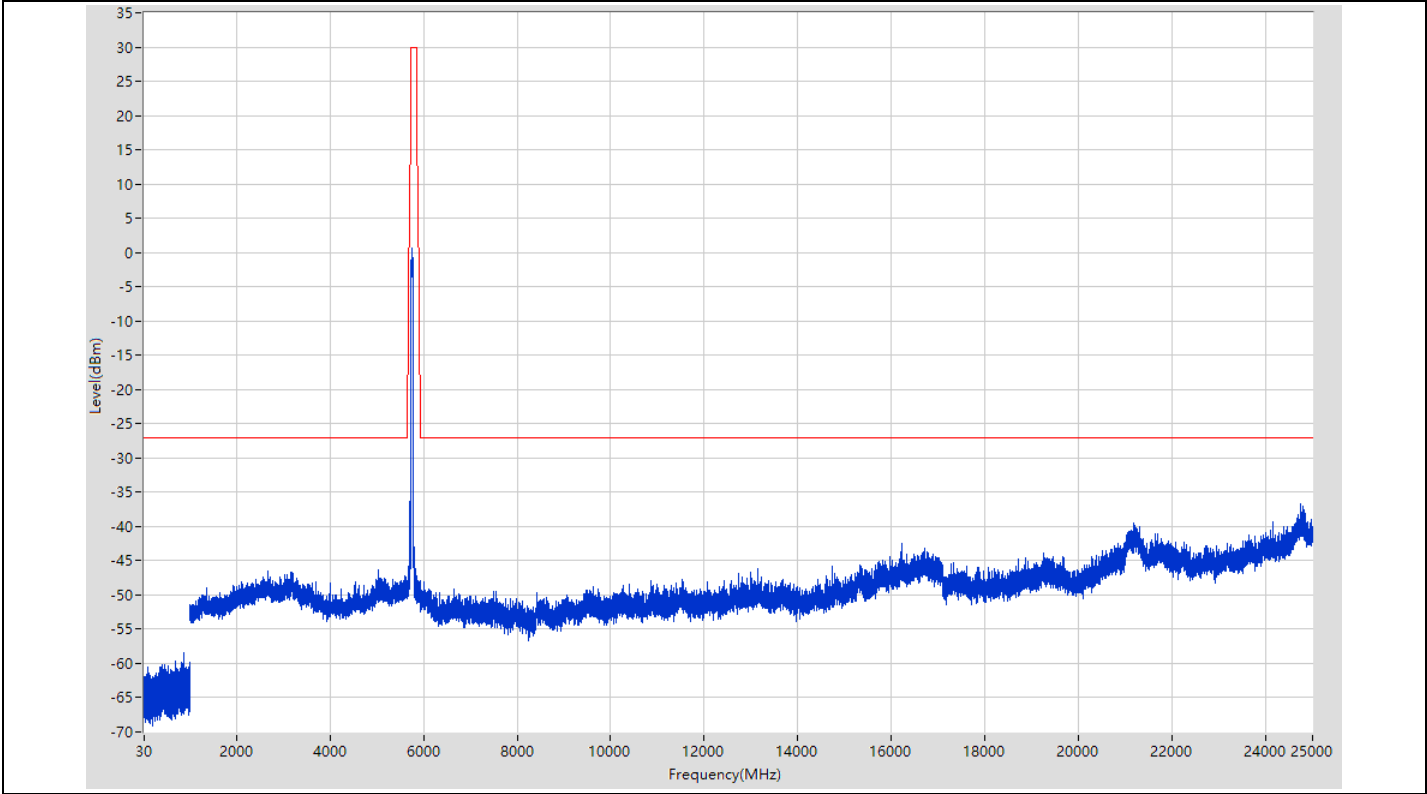
Figure 107: The Plots of conducted spurious emission, 802.11ac(VHT20), 5825MHz, at Chain 1



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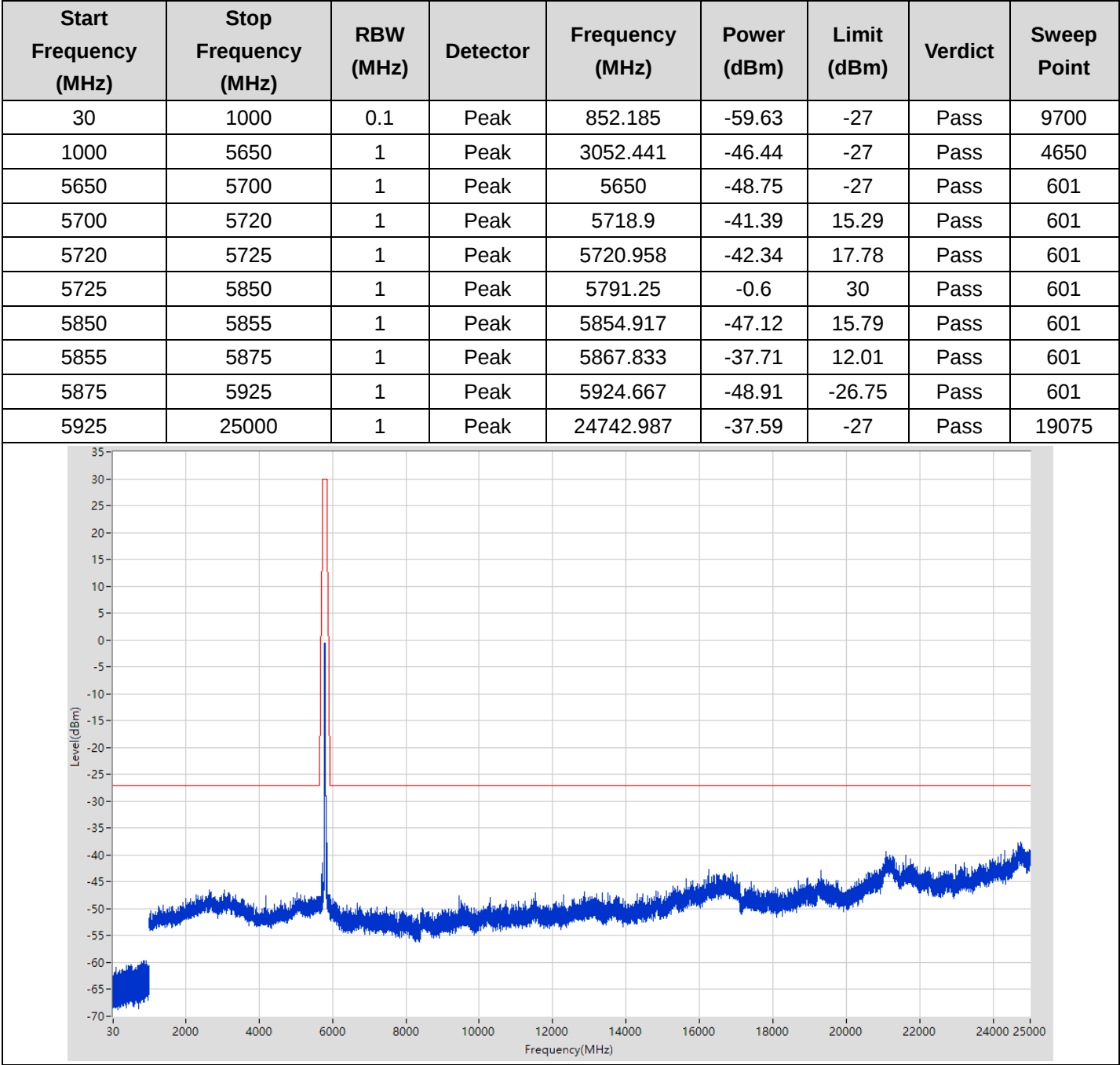
Figure 108: The Plots of conducted spurious emission, 802.11n(HT40), 5755MHz, at Chain 1

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.1	Peak	873.787	-58.52	-27	Pass	9700
1000	5650	1	Peak	5030.867	-46.25	-27	Pass	4650
5650	5700	1	Peak	5650.833	-48.59	-26.38	Pass	601
5700	5720	1	Peak	5713.633	-36.31	13.82	Pass	601
5720	5725	1	Peak	5720	-43.37	15.6	Pass	601
5725	5850	1	Peak	5747.917	0.71	30	Pass	601
5850	5855	1	Peak	5854.975	-48.54	15.66	Pass	601
5855	5875	1	Peak	5872.267	-47.91	10.77	Pass	601
5875	5925	1	Peak	5925	-49.01	-27	Pass	601
5925	25000	1	Peak	24742.987	-36.72	-27	Pass	19075



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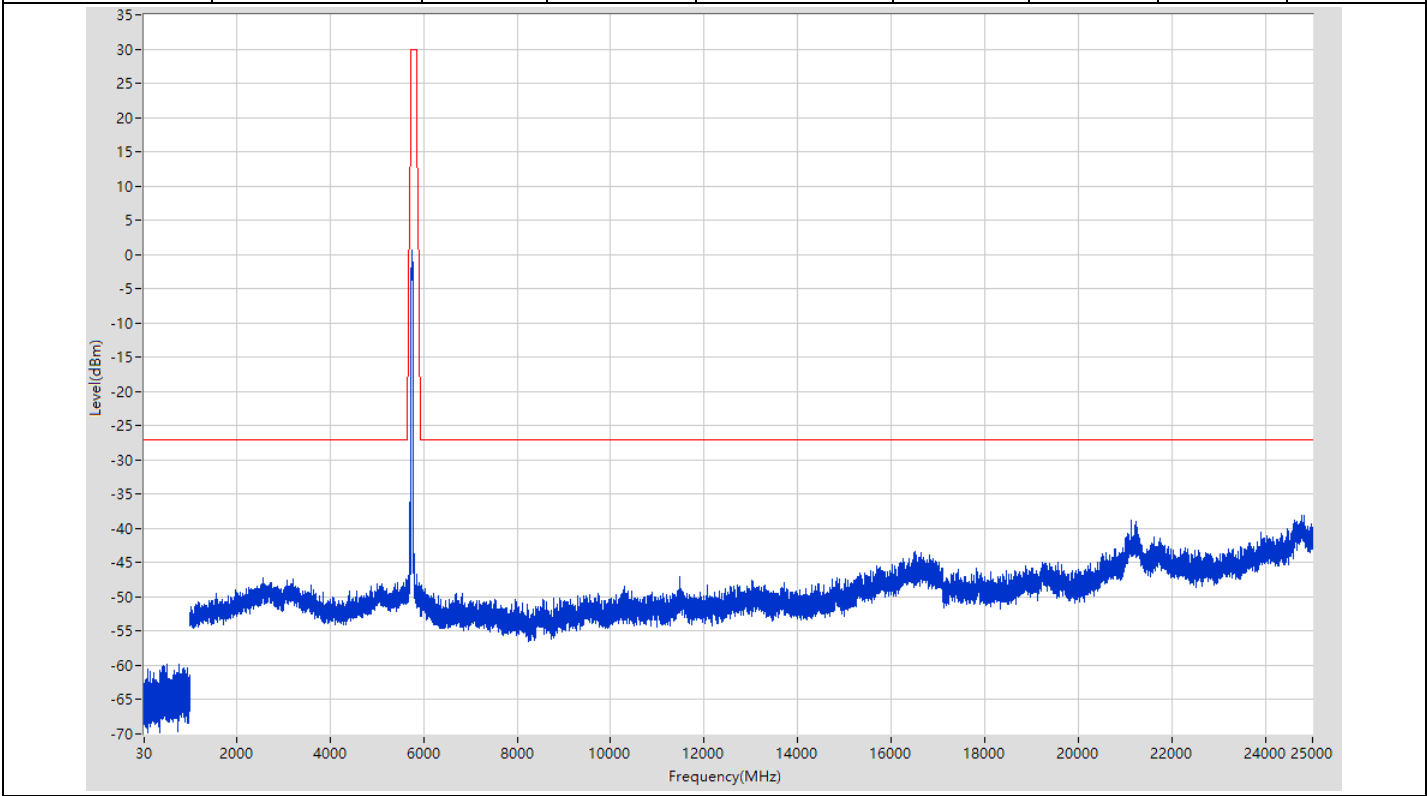
Figure 109: The Plots of conducted spurious emission, 802.11n(HT40), 5795MHz, at Chain 1



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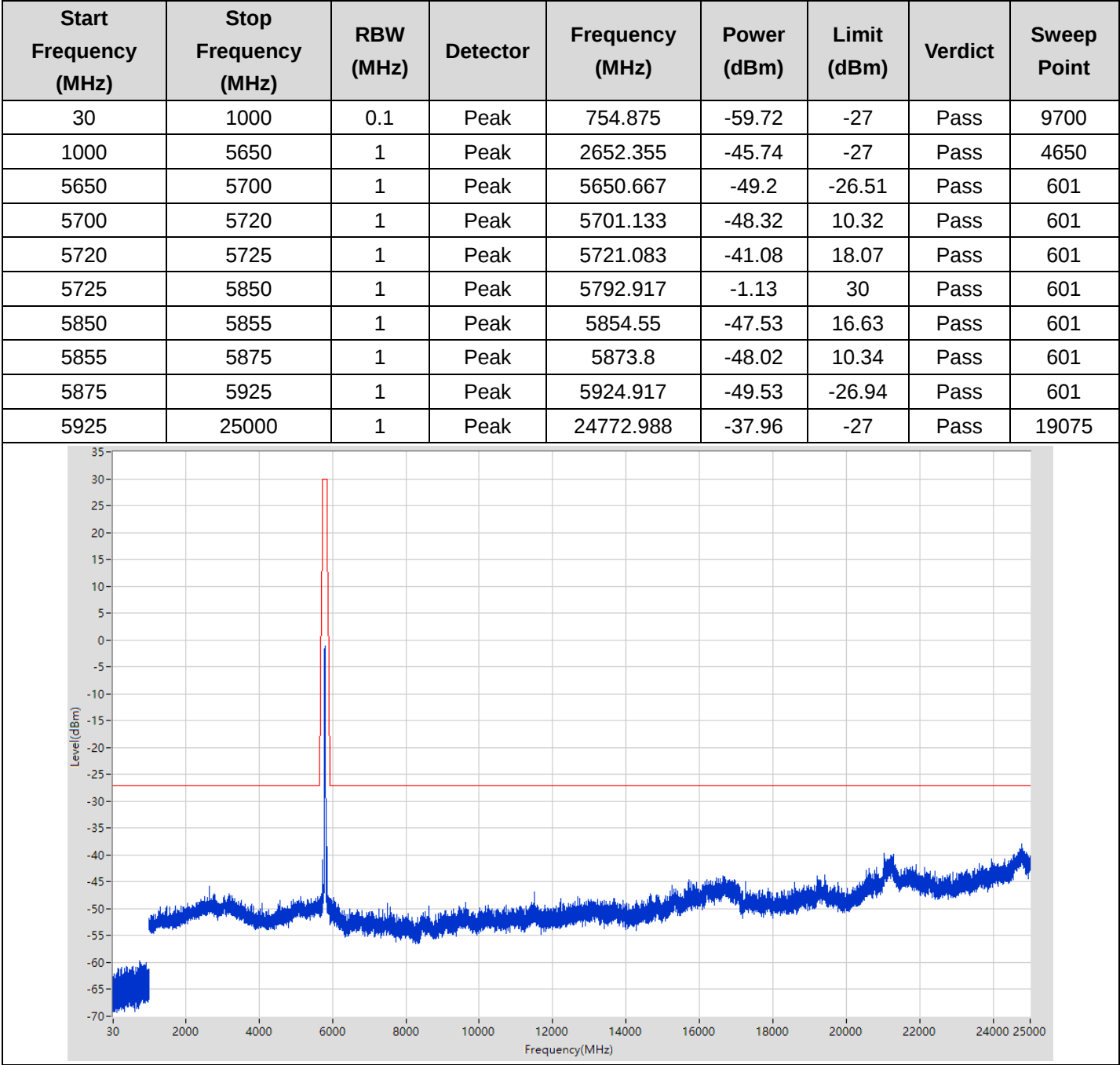
Figure 110: The Plots of conducted spurious emission, 802.11ac(VHT40) 5755MHz, at Chain 1

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Limit (dBm)	Verdict	Sweep Point
30	1000	0.1	Peak	510.45	-59.82	-27	Pass	9700
1000	5650	1	Peak	2568.337	-47.21	-27	Pass	4650
5650	5700	1	Peak	5650.667	-48.96	-26.51	Pass	601
5700	5720	1	Peak	5700.467	-45.08	10.13	Pass	601
5720	5725	1	Peak	5723.533	-32.31	23.66	Pass	601
5725	5850	1	Peak	5750.625	0.62	30	Pass	601
5850	5855	1	Peak	5854.942	-48.56	15.73	Pass	601
5855	5875	1	Peak	5874.4	-48.8	10.17	Pass	601
5875	5925	1	Peak	5924.917	-48.81	-26.94	Pass	601
5925	25000	1	Peak	24822.991	-38.03	-27	Pass	19075



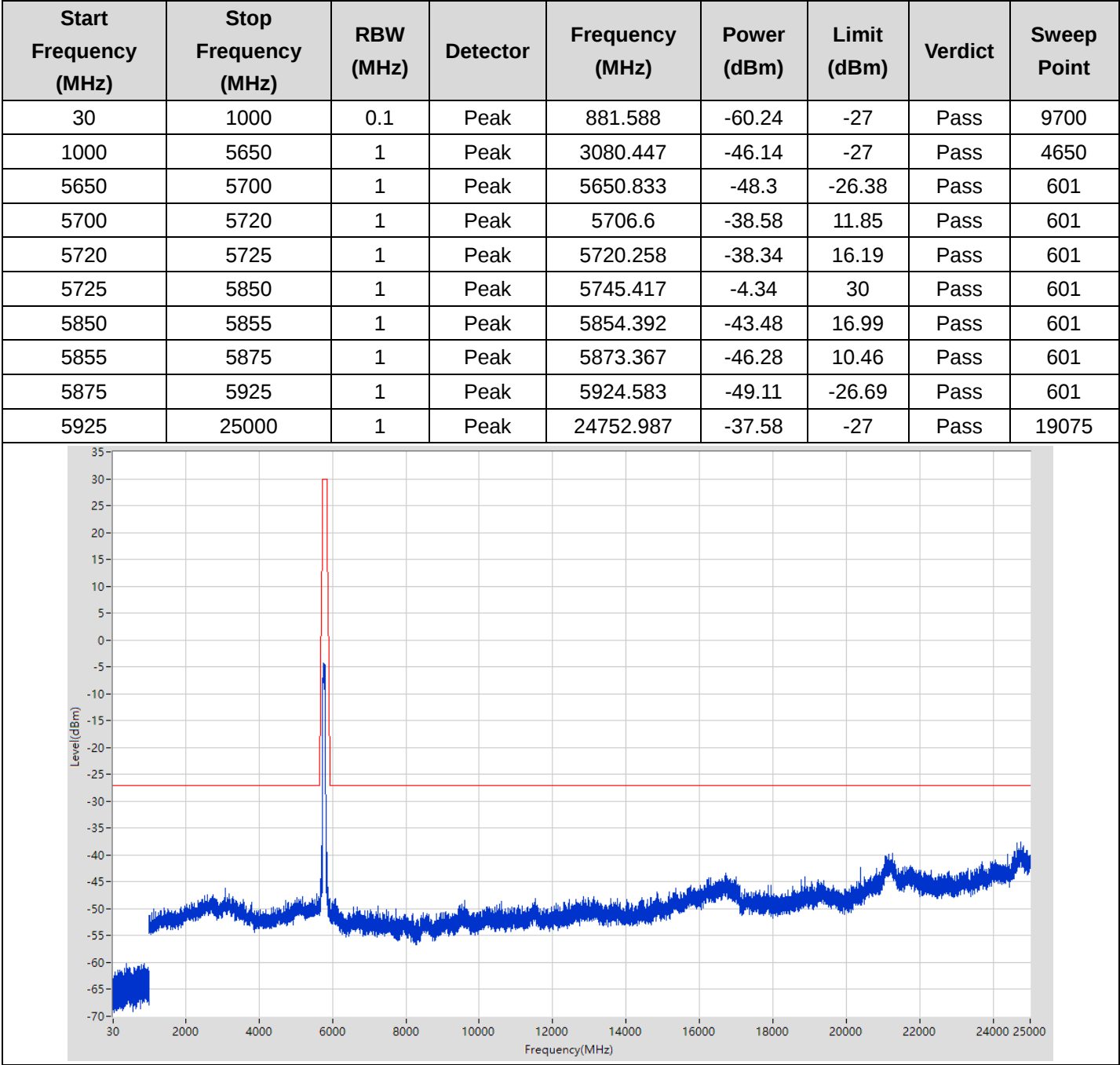
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Figure 111: The Plots of conducted spurious emission, 802.11ac(VHT40) 5795MHz, at Chain 1



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Figure 112: The Plots of conducted spurious emission, 802.11ac(VHT80) 5775MHz, at Chain 1



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4.1.7 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.407(b), 15.209, 15.205 RSS-247 6.2
Requirement	: ANSI C63.10-2013 clause 12.7.4, KDB 789033
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 23°C
Relative humidity	: 50%

Notes:

Test plots please refer to the annex document "SHE22030040-02IE DATA WIFI5GHz-TX EXHIBIT A"

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.
4. All antenna (antenna 2 and 3) had been tested, The 802.11a20 of antenna 2 and The 802.11n/ac of MIMO mode are the worst case and record in the test report.
5. Factor = Antenna Factor + Cable loss - Amplifier gain, Over Limit= Results-Limit.

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4.1.8 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.407(b), RSS-247 6.2
Requirement	: ANSI C63.10-2013 clause 12.7.4.4, KDB 789033
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/High
Operation Mode	: A.1.a
Ambient temperature	: 25°C
Relative humidity	: 53%

Notes:

Test plots please refer to the annex document "SHE22030040-02IE DATA WIFI5GHz-TX EXHIBIT A"

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.
2. All antenna (antenna 2 and 3) had been tested, The 802.11a20 of antenna 2 and The 802.11n/ac of MIMO mode are the worst case and record in the test report.
3. Factor = Antenna Factor + Cable loss - Amplifier gain, Over Limit= Results-Limit.

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4.1.9 Frequency Stability

RESULT:

PASS

Test standard : FCC Part 15.407(g), RSS-GEN 6.11
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 24.5°C
Relative humidity : 58%

Table 2: Frequency Stability

Band I (5150 – 5250 MHz):

Voltage vs. Frequency Stability (5180MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Temp (°C)	Voltage (V)			
25	3.4V	5180.01200	2.32	± 20
	3.8V	5180.00730	1.41	
	4.35V	5180.00000	0.00	

Temperature vs. Frequency Stability (5180MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Voltage (V)	Temp (°C)			
3.8V	-30	--	--	± 20
	-20	--	--	
	-10	5180.02135	4.12	
	0	5180.01100	2.12	
	10	5180.01235	2.38	
	20	5180.01030	1.99	
	30	5180.01335	2.58	
	40	5180.00500	0.97	
	55	5180.00830	1.60	

Note:

The all configurations were tested respectively, but only the worst channel shown here.

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Band IV (5725 – 5850 MHz):
Voltage vs. Frequency Stability (5745MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Temp (°C)	Voltage (V)			
25	3.4V	5745.00770	1.34	± 20
	3.8V	5744.99465	-0.93	
	4.35V	5745.01335	2.32	

Temperature vs. Frequency Stability (5745MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Voltage (V)	Temp (°C)			
3.8V	-30	--	--	± 20
	-20	--	--	
	-10	5745.00346	0.60	
	0	5745.01253	2.18	
	10	5745.00745	1.30	
	20	5745.01249	2.17	
	30	5745.01759	3.06	
	40	5745.01473	2.56	
	55	5745.00852	1.48	

Note:
The all configurations were tested respectively, but only the worst channel shown here.

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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207, RSS-Gen 8.8
Requirement	: ANSI C63.10-2013 clause 6.2
Kind of test site	: Shielded room

Test setup	
Input Voltage	: AC 120V, 60Hz
Operation Mode	: A.1.a
Earthing	: Not Connected
Ambient temperature	: 23.5°C
Relative humidity	: 41%

For details refer to following test plot.

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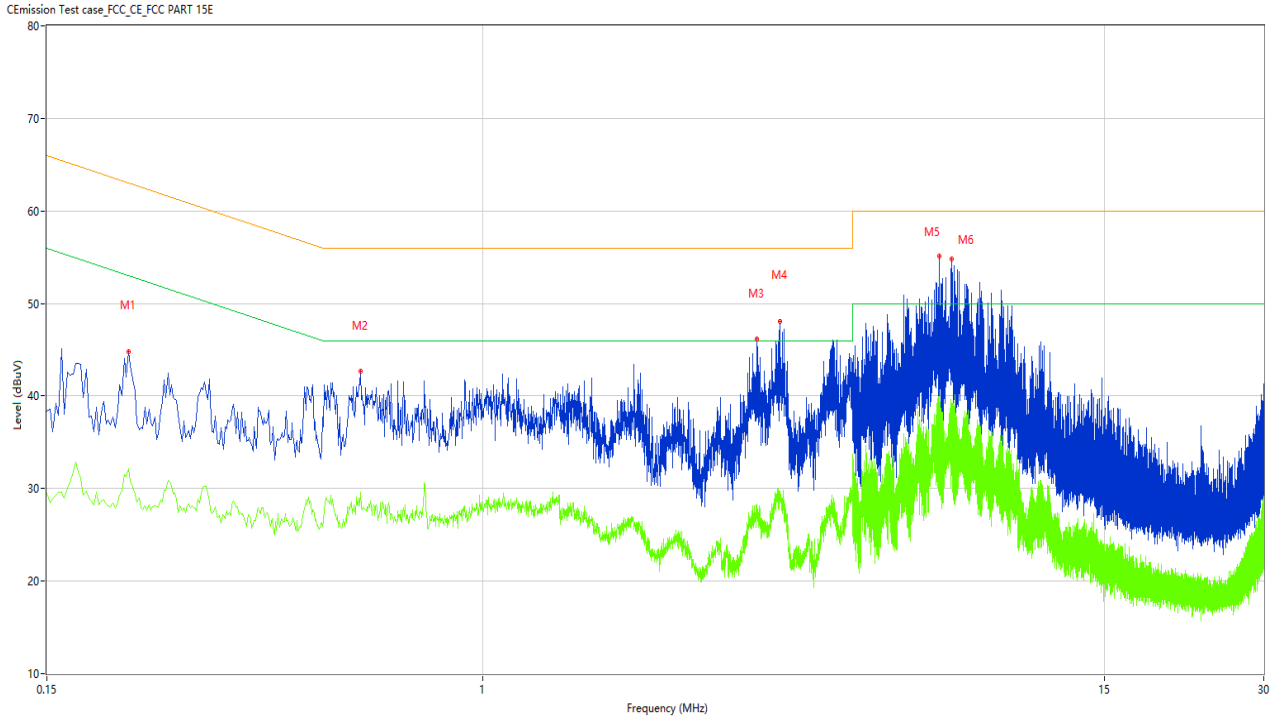
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Note: The all configurations were tested respectively, but only the worst configuration shown here.

Figure 213: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.214	44.91	10.27	63.05	-18.14	Peak	L	Pass
1*	0.214	40.36	10.27	63.05	-22.69	QP	L	Pass
1**	0.214	32.16	10.27	53.05	-20.89	AV	L	Pass
2	0.588	40.69	10.34	56.00	-15.31	Peak	L	Pass
2*	0.588	34.93	10.34	56.00	-21.07	QP	L	Pass
2**	0.588	29.64	10.34	46.00	-16.36	AV	L	Pass
3	3.304	46.91	10.19	56.00	-9.09	Peak	L	Pass
3*	3.304	36.73	10.19	56.00	-19.27	QP	L	Pass
3**	3.304	27.24	10.19	46.00	-18.76	AV	L	Pass
4	3.644	49.15	10.21	56.00	-6.85	Peak	L	Pass
4*	3.644	38.67	10.21	56.00	-17.33	QP	L	Pass
4**	3.644	29.68	10.21	46.00	-16.32	AV	L	Pass
5	7.292	57.05	10.35	60.00	-2.95	Peak	L	Pass
5*	7.292	45.87	10.35	60.00	-14.13	QP	L	Pass
5**	7.292	38.22	10.35	50.00	-11.78	AV	L	Pass
6	7.712	56.52	10.36	60.00	-3.48	Peak	L	Pass
6*	7.712	45.87	10.36	60.00	-14.13	QP	L	Pass
6**	7.712	39.19	10.36	50.00	-10.81	AV	L	Pass

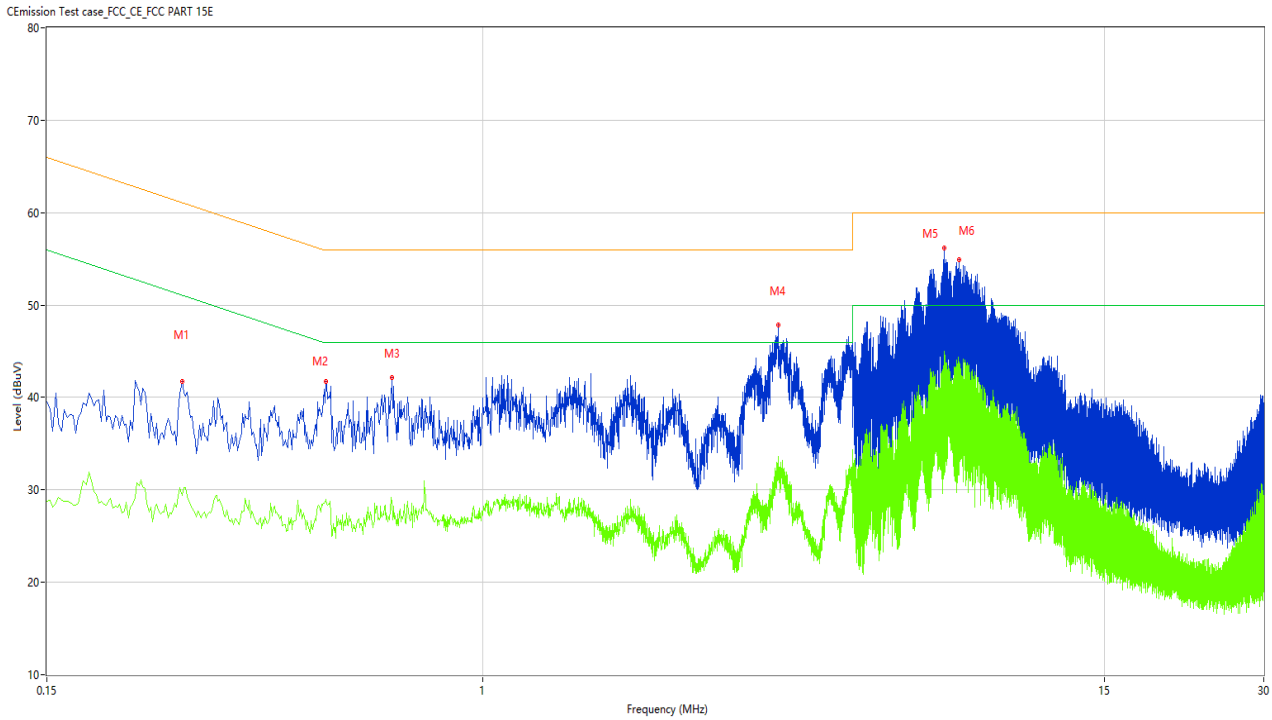
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Figure 114: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.270	39.56	10.23	61.12	-21.56	Peak	N	Pass
1*	0.270	35.88	10.23	61.12	-25.24	QP	N	Pass
1**	0.270	29.38	10.23	51.12	-21.74	AV	N	Pass
2	0.506	40.79	10.20	56.00	-15.21	Peak	N	Pass
2*	0.506	35.68	10.20	56.00	-20.32	QP	N	Pass
2**	0.506	28.96	10.20	46.00	-17.04	AV	N	Pass
3	0.674	39.87	10.19	56.00	-16.13	Peak	N	Pass
3*	0.674	34.24	10.19	56.00	-21.76	QP	N	Pass
3**	0.674	28.78	10.19	46.00	-17.22	AV	N	Pass
4	3.620	47.72	10.26	56.00	-8.28	Peak	N	Pass
4*	3.620	42.56	10.26	56.00	-13.44	QP	N	Pass
4**	3.620	32.37	10.26	46.00	-13.63	AV	N	Pass
5	7.460	56.05	10.46	60.00	-3.95	Peak	N	Pass
5*	7.460	49.81	10.46	60.00	-10.19	QP	N	Pass
5**	7.460	41.98	10.46	50.00	-8.02	AV	N	Pass
6	7.952	55.76	10.47	60.00	-4.24	Peak	N	Pass
6*	7.952	49.94	10.47	60.00	-10.06	QP	N	Pass
6**	7.952	43.73	10.47	50.00	-6.27	AV	N	Pass

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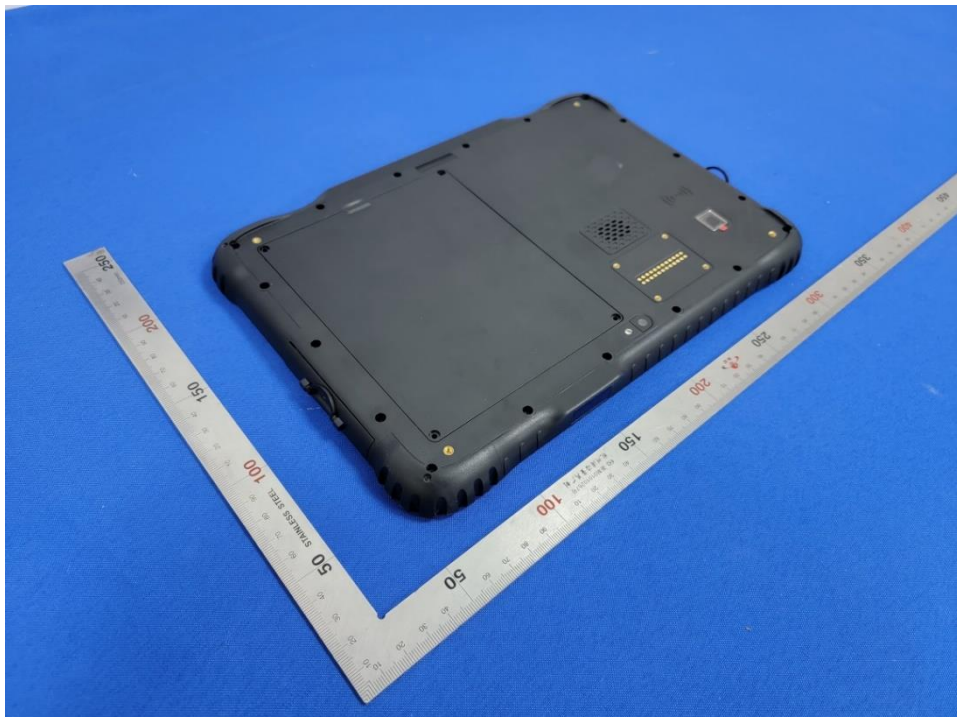
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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



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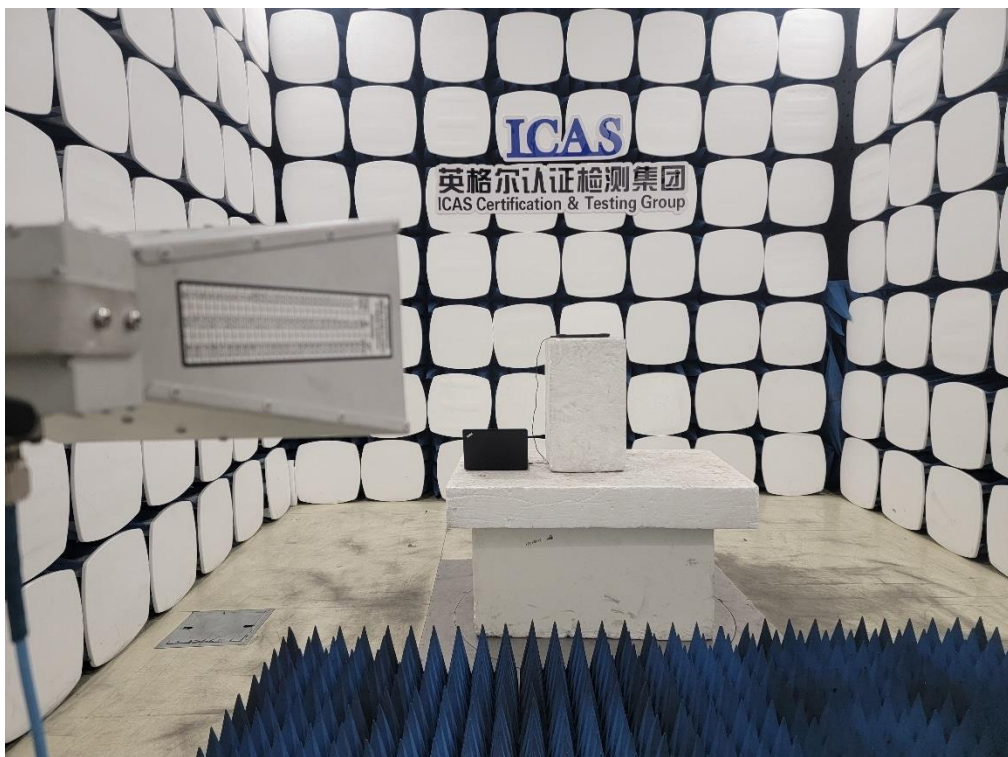
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5.4 Set-up for Spurious Emissions below 1GHz



5.5 Set-up for Spurious Emissions above 1GHz



End of the report