



ANT. 2

Mode	Test channel	Frequency (MHz)	Result [dBm/MHz]	E.I.R.P [dBm/MHz]	Limit [dBm/MHz]	Result
802.11a	1	5955	-12.44	-13.07	-1	PASS
802.11a	45	6175	-15.06	-15.69	-1	PASS
802.11a	93	6415	-16.91	-17.54	-1	PASS
802.11a	97	6435	-15.66	-16.29	-1	PASS
802.11a	105	6475	-16.59	-17.22	-1	PASS
802.11a	113	6515	-14.88	-15.51	-1	PASS
802.11a	117	6535	-14.86	-15.49	-1	PASS
802.11a	153	6715	-13.38	-14.01	-1	PASS
802.11a	181	6855	-13.82	-14.45	-1	PASS
802.11a	185	6875	-14.16	-14.79	-1	PASS
802.11a	213	7015	-13.12	-13.75	-1	PASS
802.11a	233	7115	-13.46	-14.09	-1	PASS
802.11ax(HE20)	1	5955	-15.02	-15.65	-1	PASS
802.11ax(HE20)	45	6175	-15.25	-15.88	-1	PASS
802.11ax(HE20)	93	6415	-17.46	-18.09	-1	PASS
802.11ax(HE20)	97	6435	-16.85	-17.48	-1	PASS
802.11ax(HE20)	105	6475	-15.83	-16.46	-1	PASS
802.11ax(HE20)	113	6515	-15.99	-16.62	-1	PASS
802.11ax(HE20)	117	6535	-15.92	-16.55	-1	PASS
802.11ax(HE20)	153	6715	-16.09	-16.72	-1	PASS
802.11ax(HE20)	181	6855	-16.41	-17.04	-1	PASS
802.11ax(HE20)	185	6875	-16.77	-17.4	-1	PASS
802.11ax(HE20)	213	7015	-16.68	-17.31	-1	PASS
802.11ax(HE20)	233	7115	-14.34	-14.97	-1	PASS
802.11ax(HE40)	3	5965	-15.91	-16.54	-1	PASS
802.11ax(HE40)	43	6165	-19.93	-20.56	-1	PASS
802.11ax(HE40)	91	6405	-20.23	-20.86	-1	PASS
802.11ax(HE40)	99	6445	-21.08	-21.71	-1	PASS
802.11ax(HE40)	107	6485	-20.05	-20.68	-1	PASS

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802.11ax(HE40)	115	6525	-18.15	-18.78	-1	PASS
802.11ax(HE40)	123	6565	-18.71	-19.34	-1	PASS
802.11ax(HE40)	155	6725	-18.15	-18.78	-1	PASS
802.11ax(HE40)	179	6845	-17.16	-17.79	-1	PASS
802.11ax(HE40)	187	6885	-17.85	-18.48	-1	PASS
802.11ax(HE40)	211	7005	-17.20	-17.83	-1	PASS
802.11ax(HE40)	227	7085	-14.78	-15.41	-1	PASS
802.11ax(HE80)	7	5985	-20.81	-21.44	-1	PASS
802.11ax(HE80)	39	6145	-23.82	-24.45	-1	PASS
802.11ax(HE80)	87	6385	-22.19	-22.82	-1	PASS
802.11ax(HE80)	103	6465	-22.91	-23.54	-1	PASS
802.11ax(HE80)	119	6545	-21.22	-21.85	-1	PASS
802.11ax(HE80)	135	6625	-20.51	-21.14	-1	PASS
802.11ax(HE80)	151	6705	-19.49	-20.12	-1	PASS
802.11ax(HE80)	167	6785	-19.93	-20.56	-1	PASS
802.11ax(HE80)	183	6865	-21.64	-22.27	-1	PASS
802.11ax(HE80)	199	6945	-22.30	-22.93	-1	PASS
802.11ax(HE80)	215	7025	-19.43	-20.06	-1	PASS
802.11ax(HE160)	15	6025	-22.79	-23.42	-1	PASS
802.11ax(HE160)	47	6185	-24.33	-24.96	-1	PASS
802.11ax(HE160)	79	6345	-24.81	-25.44	-1	PASS
802.11ax(HE160)	111	6505	-22.86	-23.49	-1	PASS
802.11ax(HE160)	143	6665	-22.43	-23.06	-1	PASS
802.11ax(HE160)	175	6825	-25.20	-25.83	-1	PASS
802.11ax(HE160)	207	6985	-22.20	-22.83	-1	PASS

NOTE: E.I.R.P = PSD Result + antenna gain
Antenna 1 gain = -0.63dBi

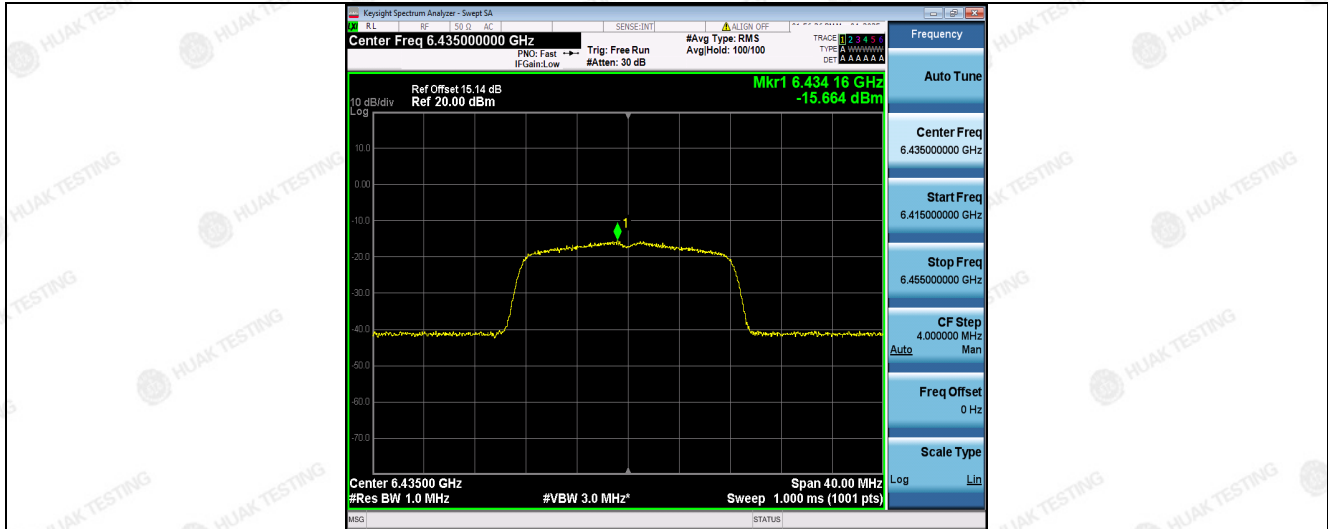
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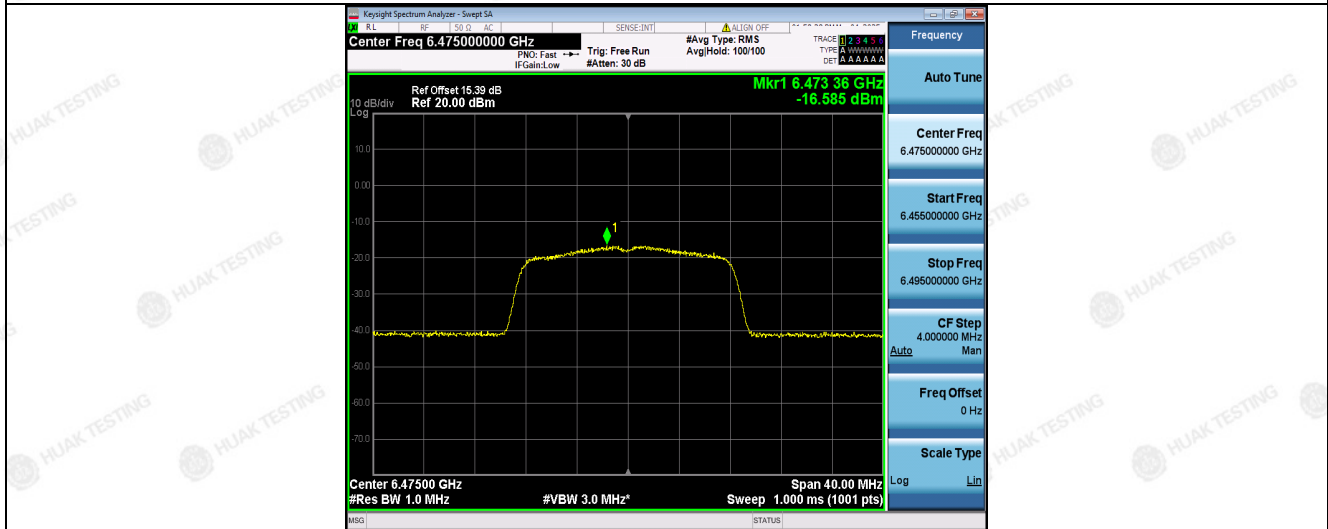
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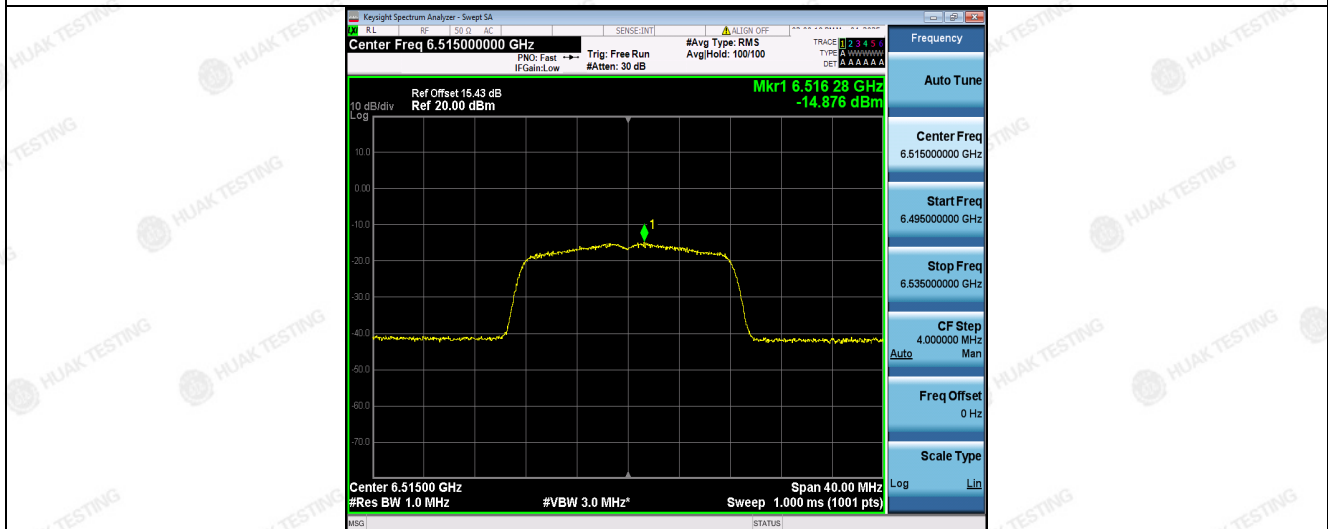
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6435



6475



6515





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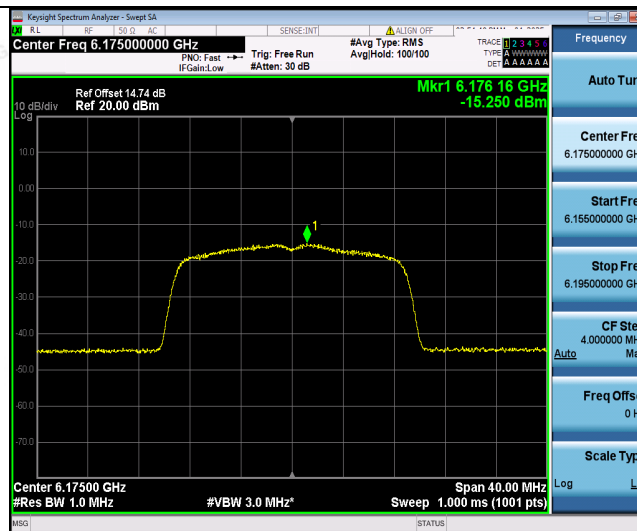
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



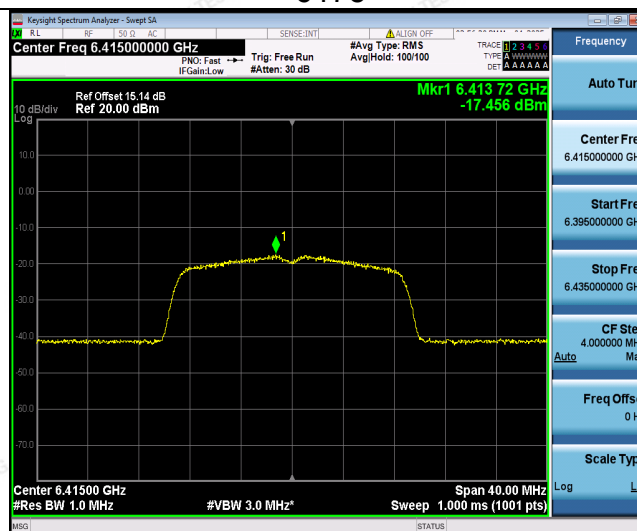
802.11ax(HE20)



5955



6175



6415



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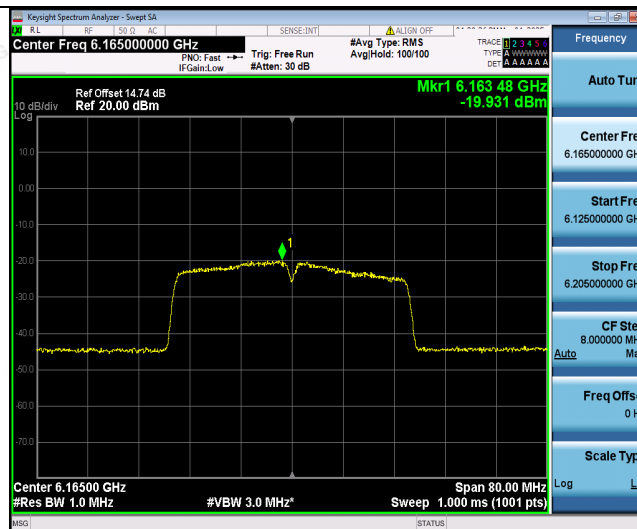




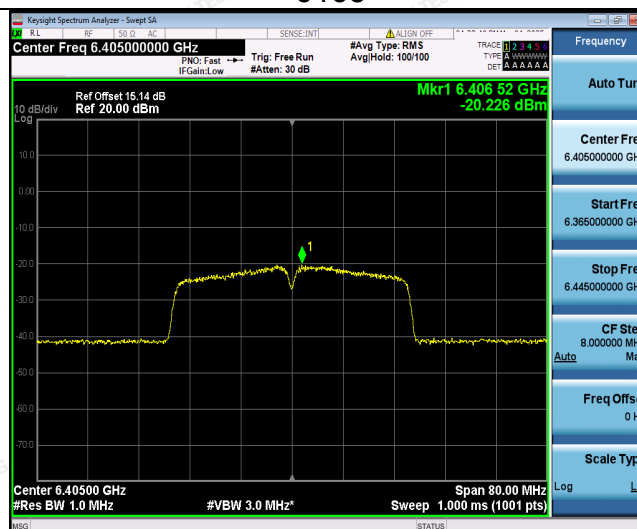
802.11ax(HE40)



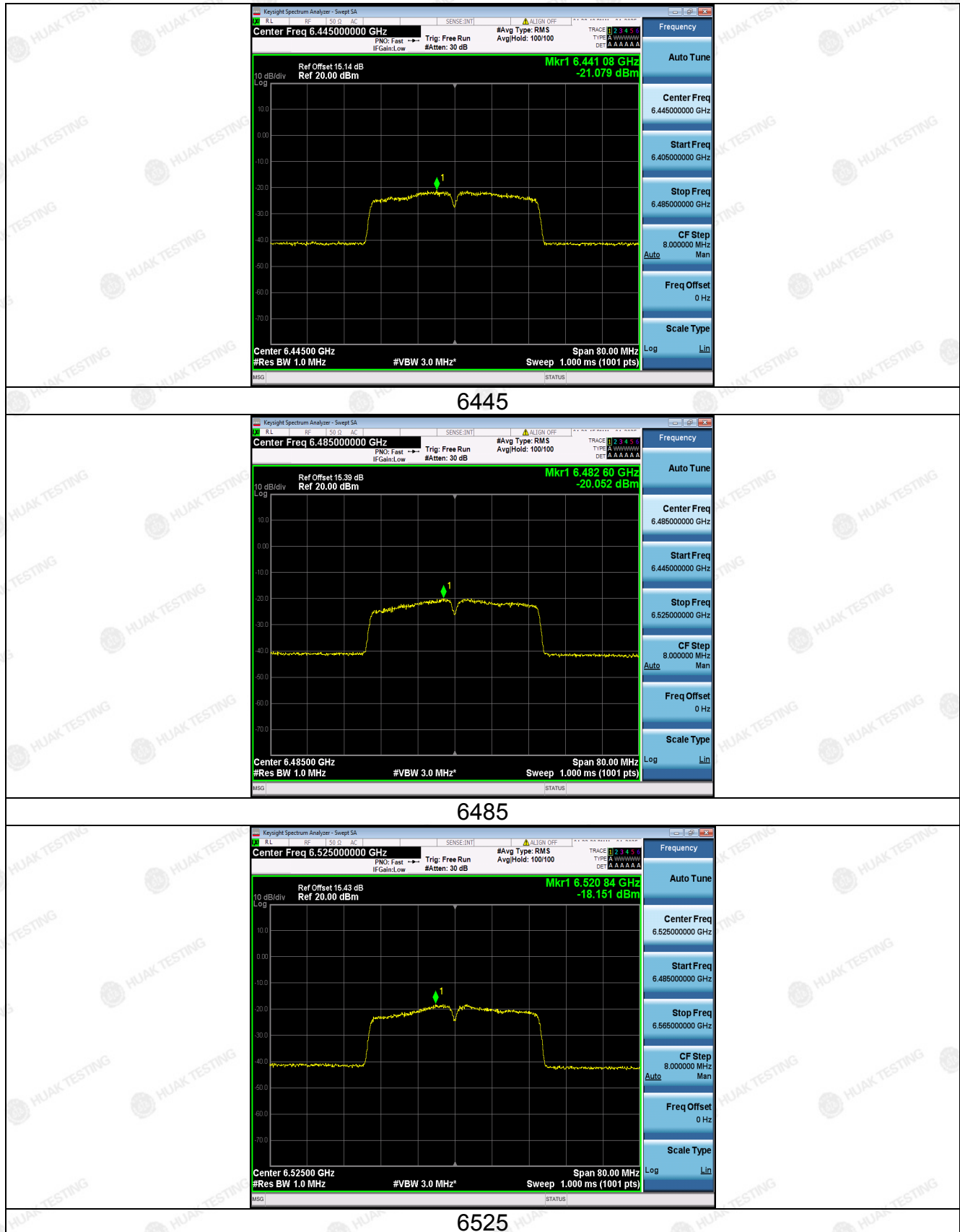
5965



6165



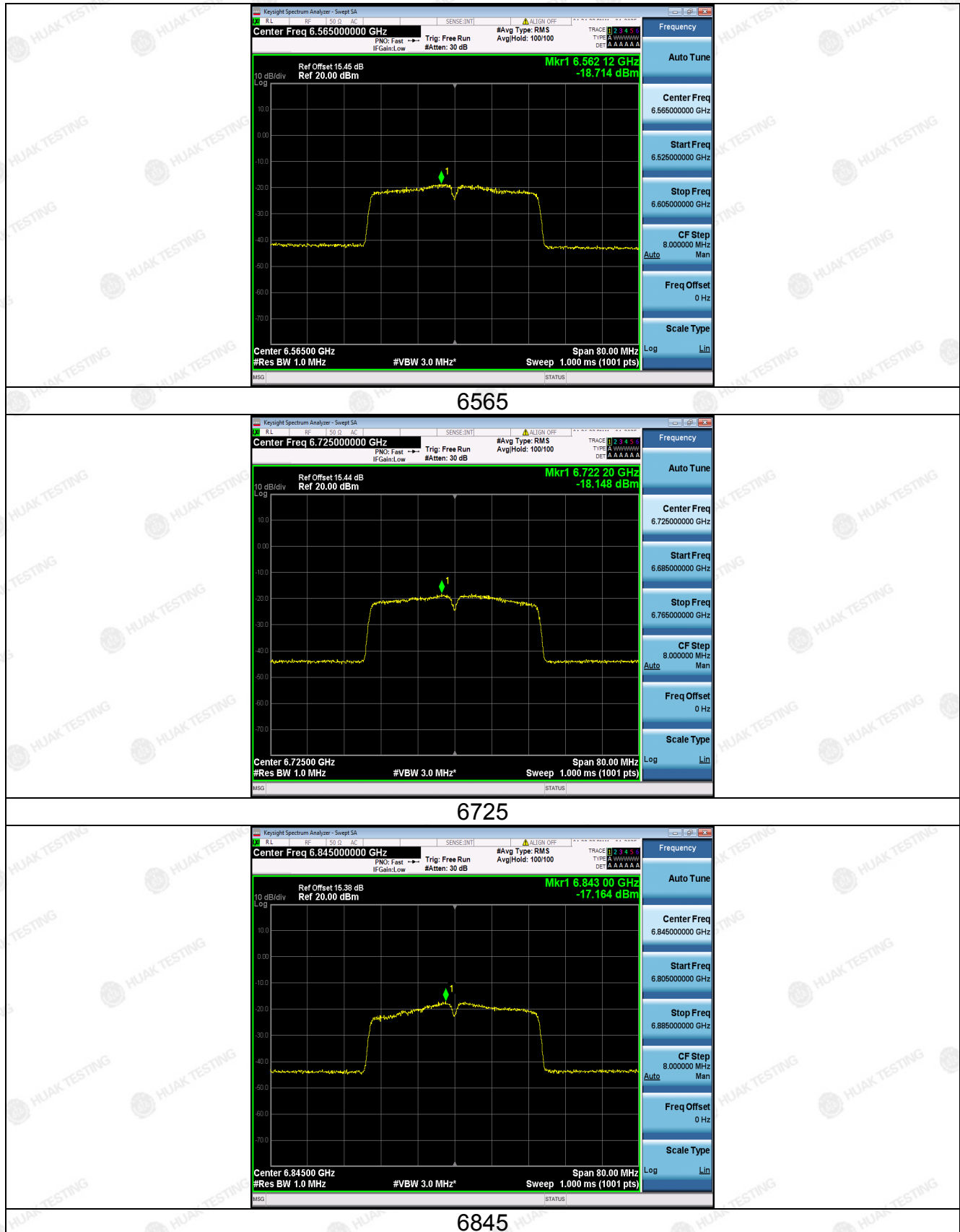
6405



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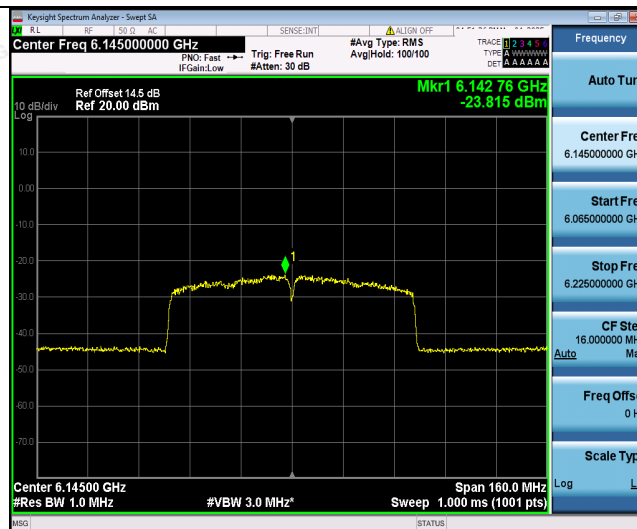
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



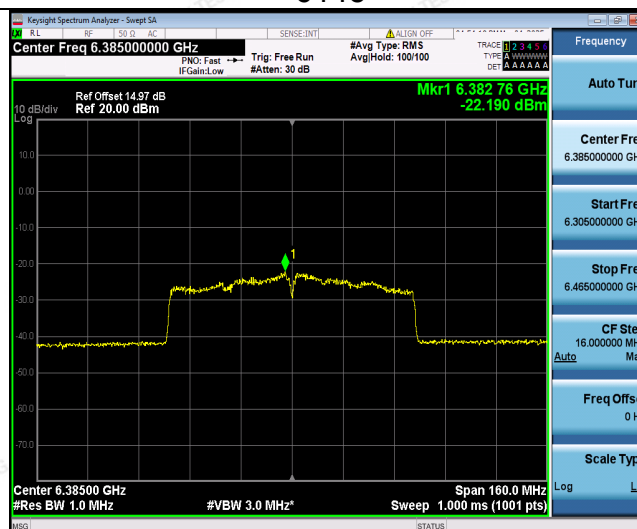
802.11ax(HE80)



5985



6145



6385









802.11ax(HE160)



6025

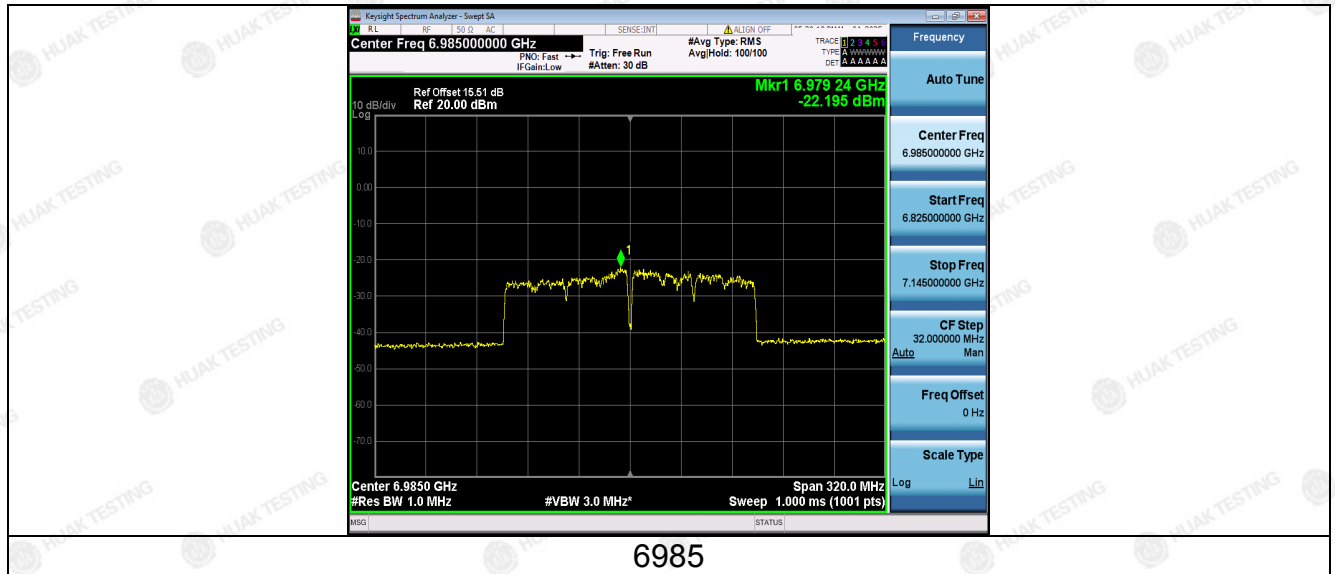


6185



6345





**For MIMO antenna port 1+antenna port 2**

Mode	Test Channel	Frequency (MHz)	Power Density (dBm)	E.I.R.P (dBm)	Limit (dBm)	Result
802.11ax(HE20)	1	5955	-11.78	-10.43	-1	PASS
802.11ax(HE20)	45	6175	-13.60	-12.94	-1	PASS
802.11ax(HE20)	93	6415	-12.93	-11.23	-1	PASS
802.11ax(HE20)	97	6435	-12.85	-11.27	-1	PASS
802.11ax(HE20)	105	6475	-11.95	-10.41	-1	PASS
802.11ax(HE20)	113	6515	-11.66	-10.00	-1	PASS
802.11ax(HE20)	117	6535	-11.82	-10.22	-1	PASS
802.11ax(HE20)	153	6715	-11.46	-9.74	-1	PASS
802.11ax(HE20)	181	6855	-12.28	-10.67	-1	PASS
802.11ax(HE20)	185	6875	-12.49	-10.85	-1	PASS
802.11ax(HE20)	213	7015	-11.90	-10.14	-1	PASS
802.11ax(HE20)	233	7115	-9.73	-8.01	-1	PASS
802.11ax(HE40)	3	5965	-13.45	-12.40	-1	PASS
802.11ax(HE40)	43	6165	-13.65	-11.63	-1	PASS
802.11ax(HE40)	91	6405	-16.09	-14.48	-1	PASS
802.11ax(HE40)	99	6445	-15.67	-13.79	-1	PASS
802.11ax(HE40)	107	6485	-12.67	-10.52	-1	PASS
802.11ax(HE40)	115	6525	-12.51	-10.59	-1	PASS
802.11ax(HE40)	123	6565	-12.87	-10.92	-1	PASS
802.11ax(HE40)	155	6725	-12.15	-10.17	-1	PASS
802.11ax(HE40)	179	6845	-11.68	-9.79	-1	PASS
802.11ax(HE40)	187	6885	-12.39	-10.51	-1	PASS
802.11ax(HE40)	211	7005	-12.72	-11.02	-1	PASS
802.11ax(HE40)	227	7085	-9.98	-8.21	-1	PASS
802.11ax(HE80)	7	5985	-13.19	-11.02	-1	PASS

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802.11ax(HE80)	39	6145	-14.65	-12.34	-1	PASS
802.11ax(HE80)	87	6385	-17.18	-15.38	-1	PASS
802.11ax(HE80)	103	6465	-16.91	-14.93	-1	PASS
802.11ax(HE80)	119	6545	-14.20	-12.09	-1	PASS
802.11ax(HE80)	135	6625	-13.24	-11.10	-1	PASS
802.11ax(HE80)	151	6705	-12.16	-10.01	-1	PASS
802.11ax(HE80)	167	6785	-13.27	-11.20	-1	PASS
802.11ax(HE80)	183	6865	-13.56	-11.34	-1	PASS
802.11ax(HE80)	199	6945	-14.96	-12.81	-1	PASS
802.11ax(HE80)	215	7025	-12.81	-10.75	-1	PASS
802.11ax(HE160)	15	6025	-15.15	-12.97	-1	PASS
802.11ax(HE160)	47	6185	-17.51	-15.42	-1	PASS
802.11ax(HE160)	79	6345	-18.26	-16.21	-1	PASS
802.11ax(HE160)	111	6505	-16.78	-14.79	-1	PASS
802.11ax(HE160)	143	6665	-15.45	-13.34	-1	PASS
802.11ax(HE160)	175	6825	-15.60	-13.26	-1	PASS
802.11ax(HE160)	207	6985	-16.04	-14.04	-1	PASS
Note: 1. According to KDB 662911, Result power = $10\log(10^{(ant1/10)} + 10^{(ant2/10)})$. 2. Result unit: W, The end result is converted to units of dBm. Limit=-1dBm-(direction gain-6dBi)=-1dBm						

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11a/ax for MIMO mode, not support 802.11 a for MIMO mode.



4.6 In-Band Emission Mask

4.6.1 Limit of In-Band Emission Mask Measurement

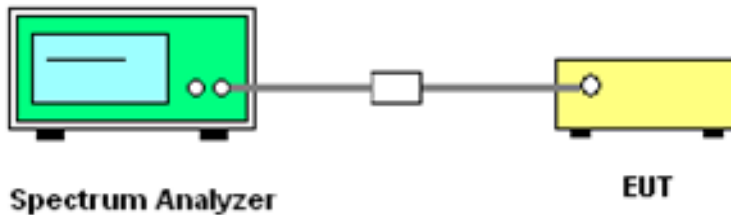
Test Item	Frequency (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

^{*1}: The power spectral density must be suppressed by “x” dB

^{*2}: At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression.

^{*3}: at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

4.6.2 Test Setup



4.6.3 Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	Feb. 18, 2026
RF cable	Times	1-40G	HKE-034	Feb. 19, 2025	Feb. 18, 2026
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	Feb. 18, 2026
RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	N/A	N/A

4.6.4 Test Result

Pass

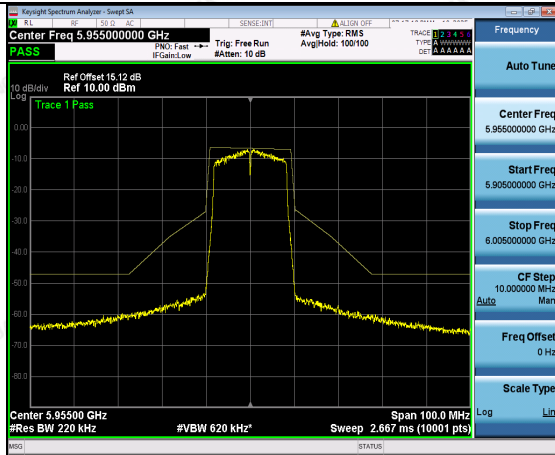


4.6.5 Test Data

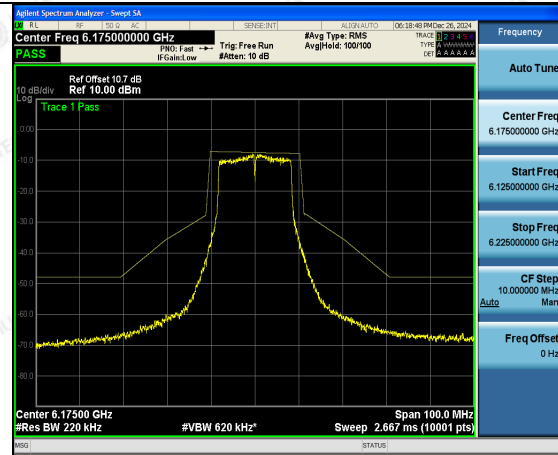
ANT. 1

802.11a

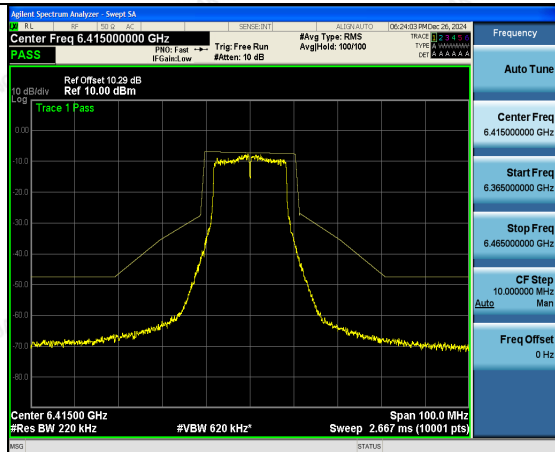
CH1



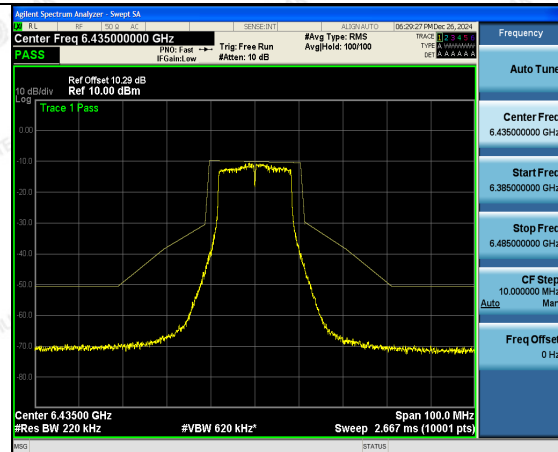
CH45



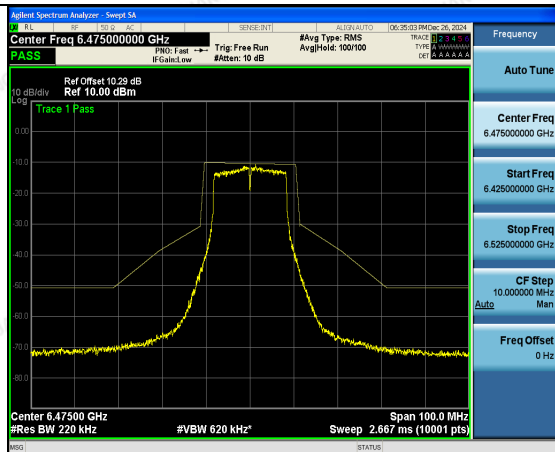
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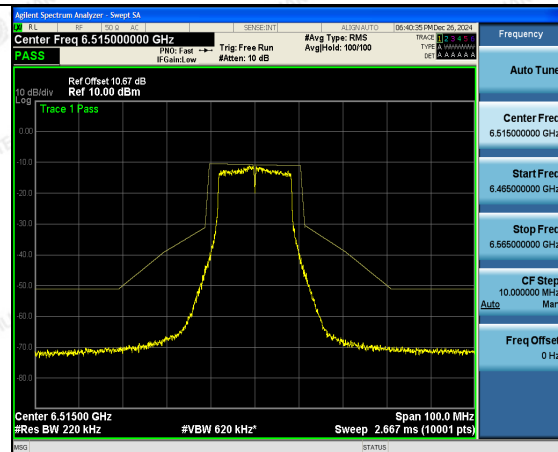
CH97



CH105

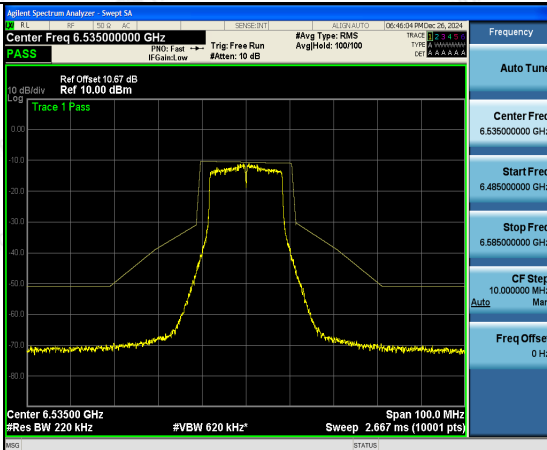


CH113

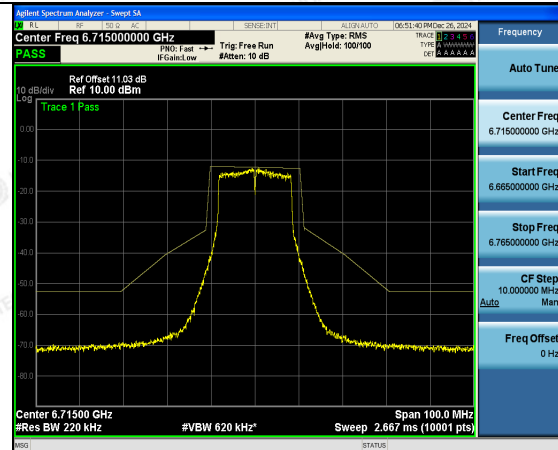




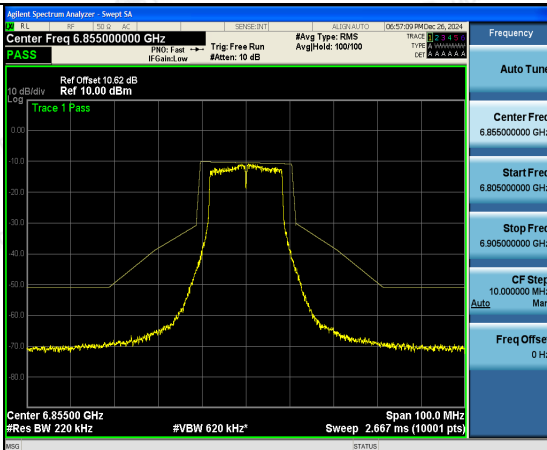
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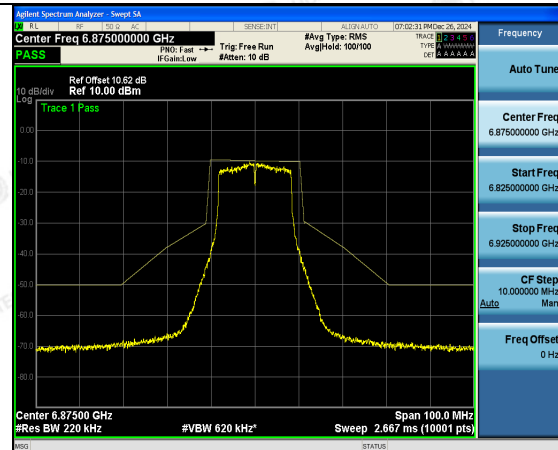
CH153



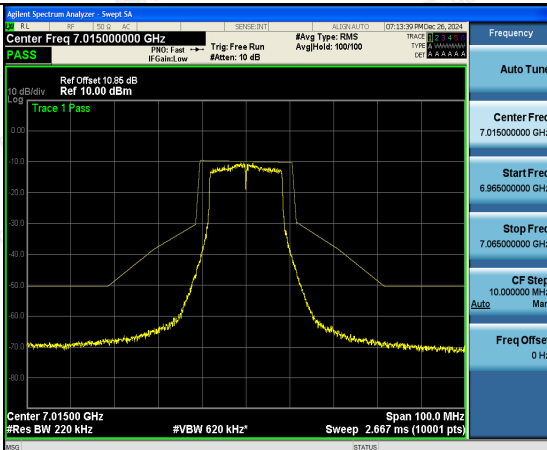
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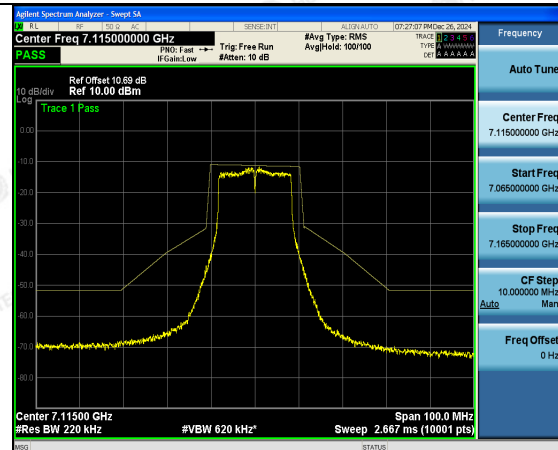
CH185



CH213



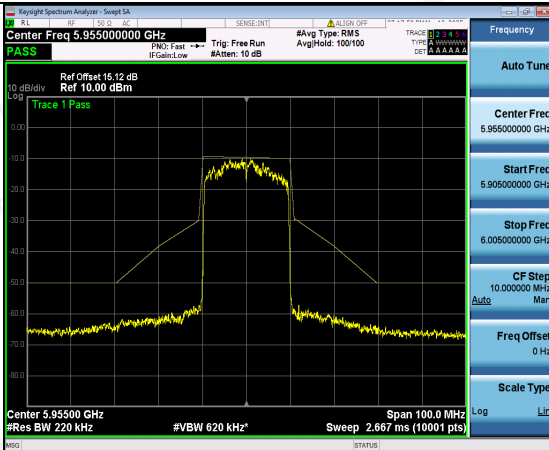
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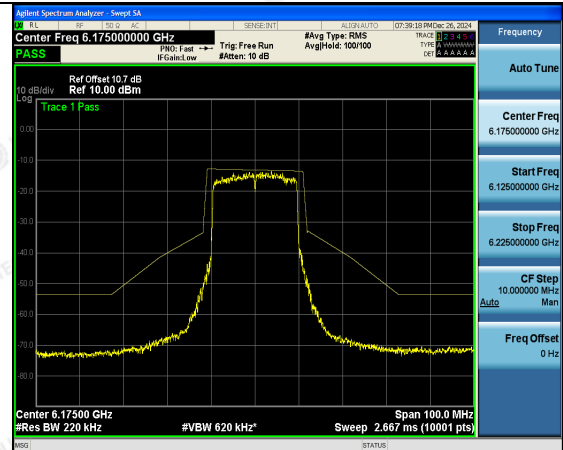


802.11ax (HE20)

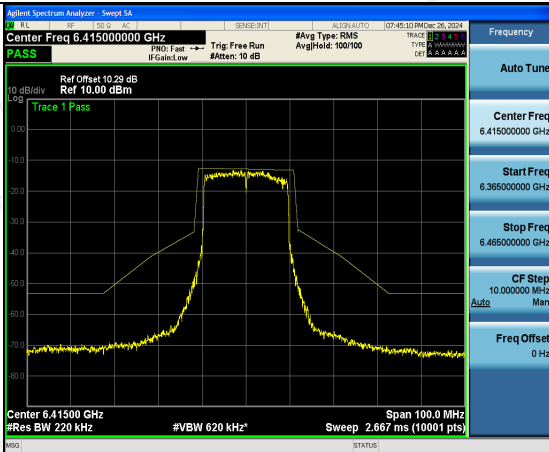
CH1



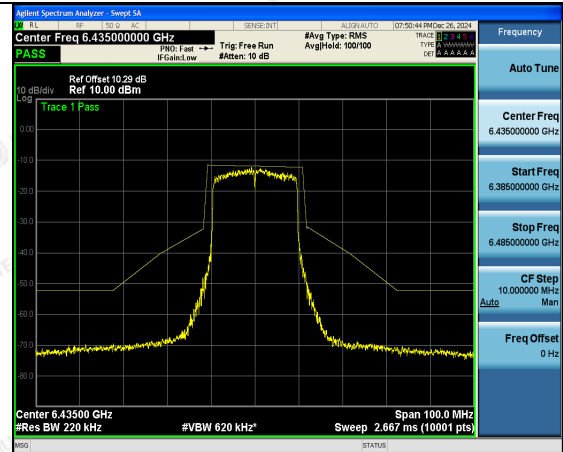
CH45



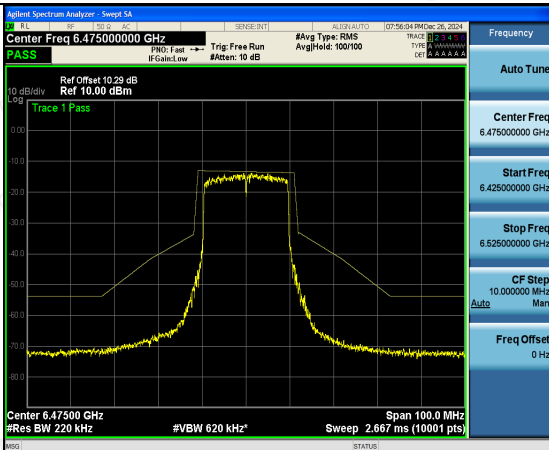
CH93



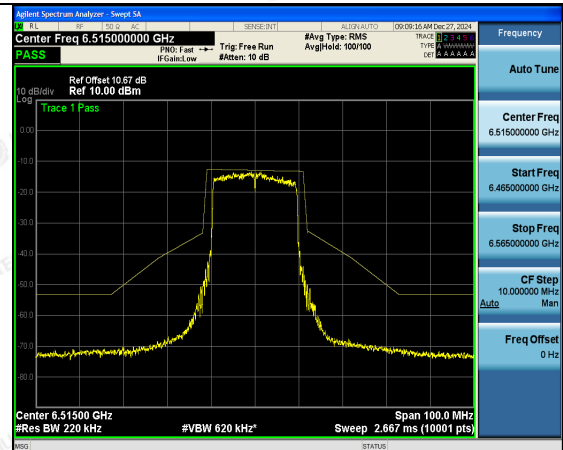
CH97



CH105

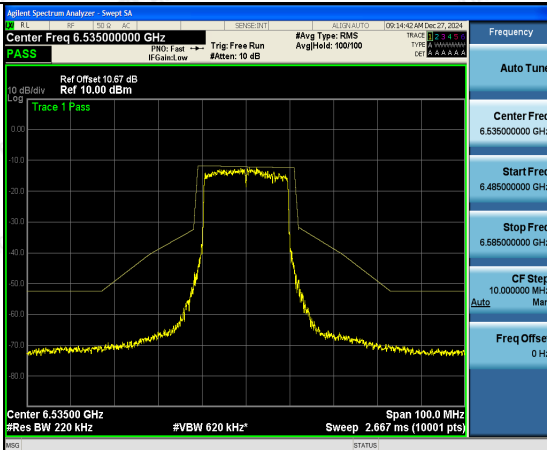


CH113

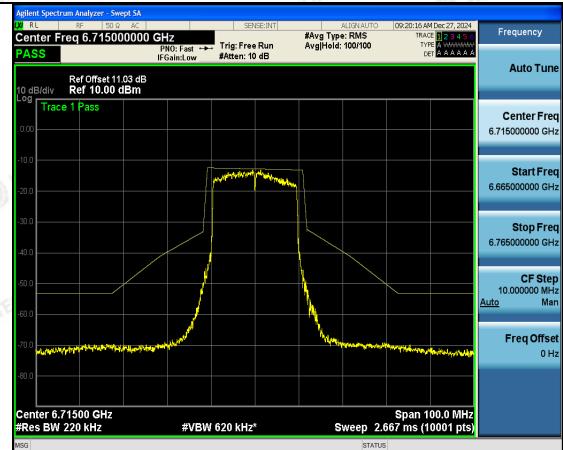




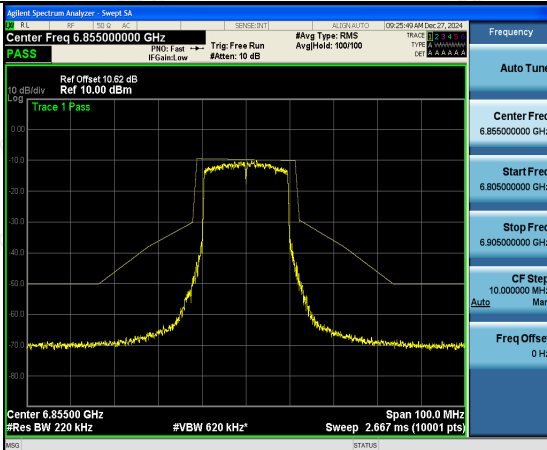
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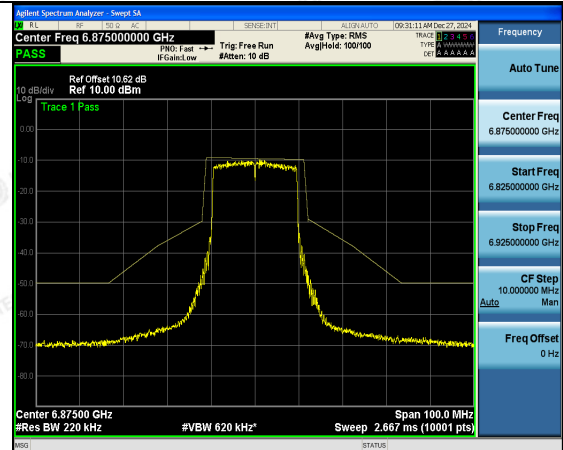
CH153



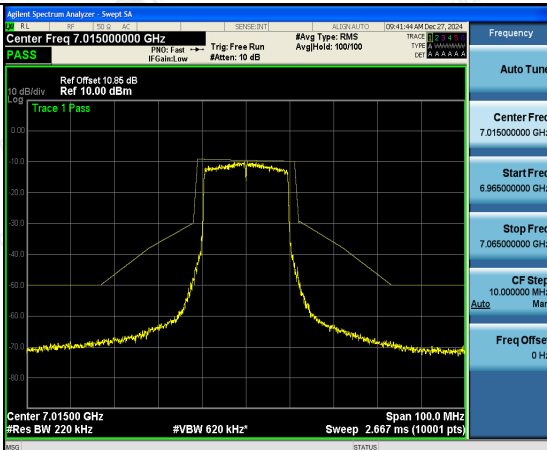
CH181



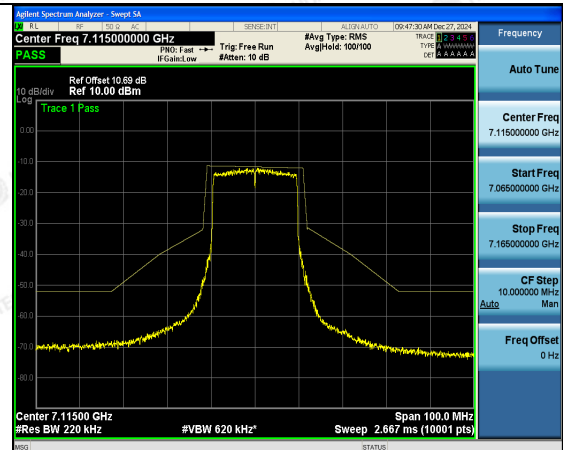
CH185



CH213



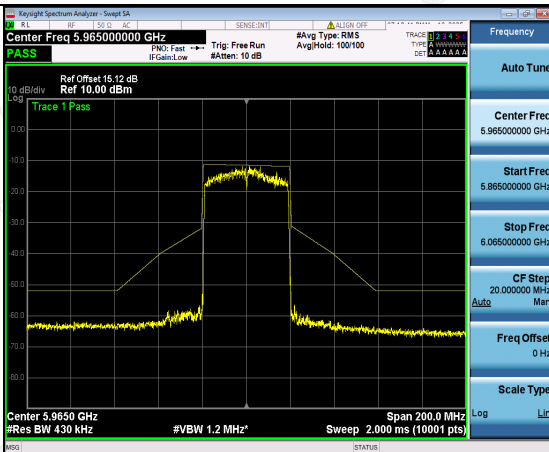
CH233



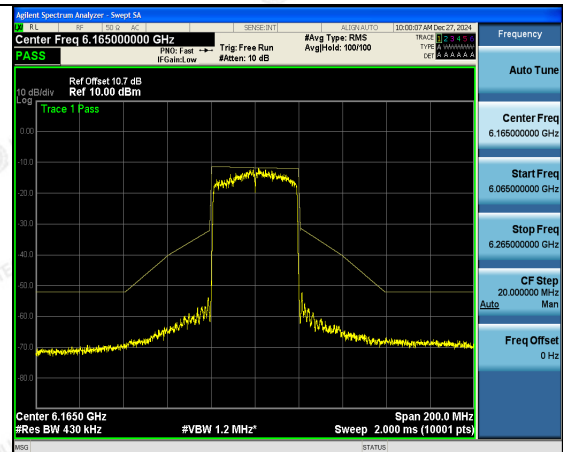


802.11ax (HE40)

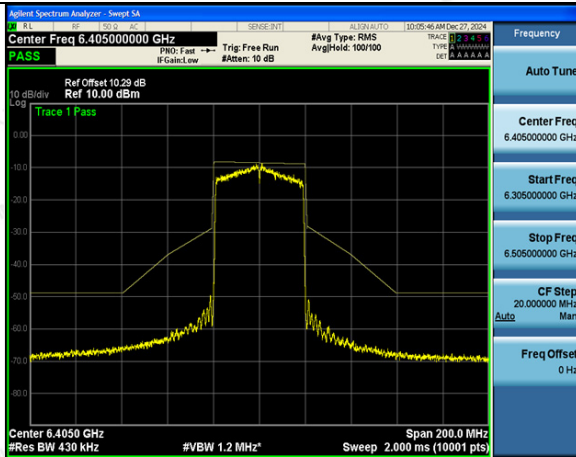
CH3



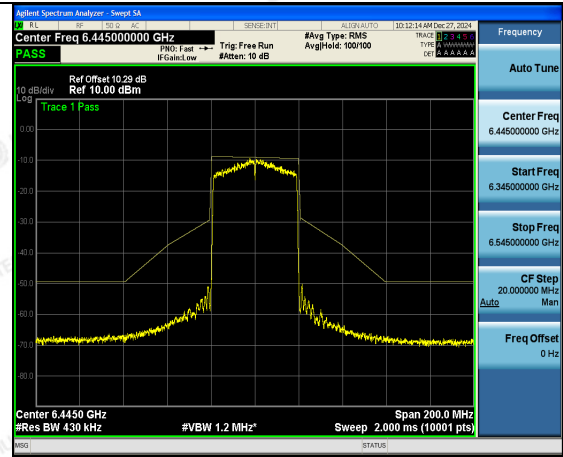
CH43



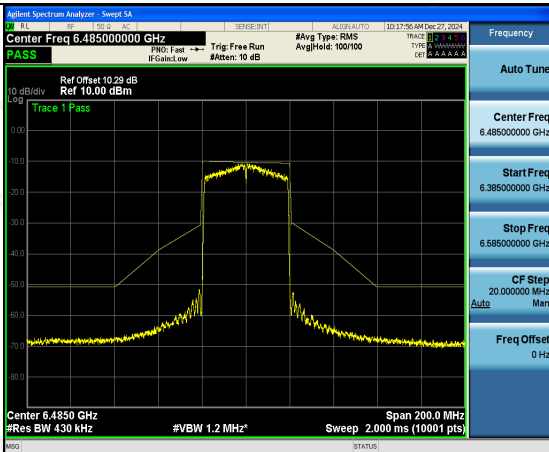
CH91



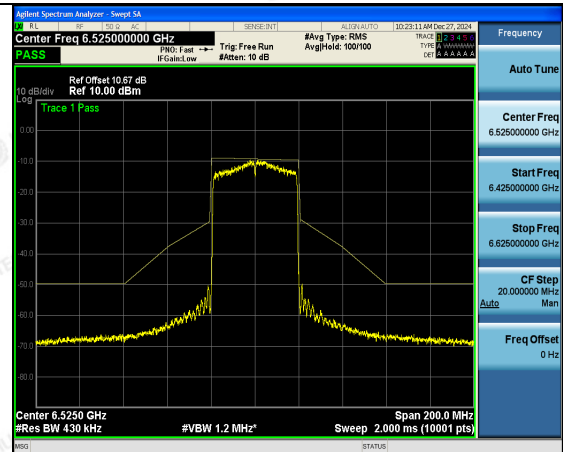
CH99



CH107

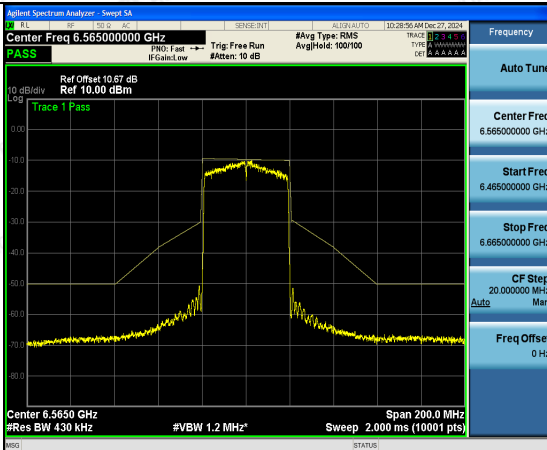


CH115

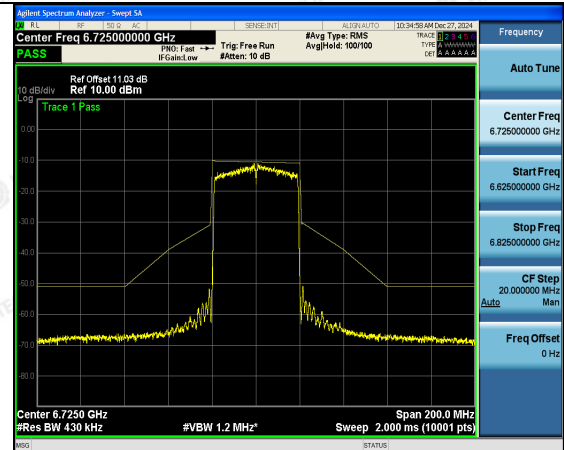




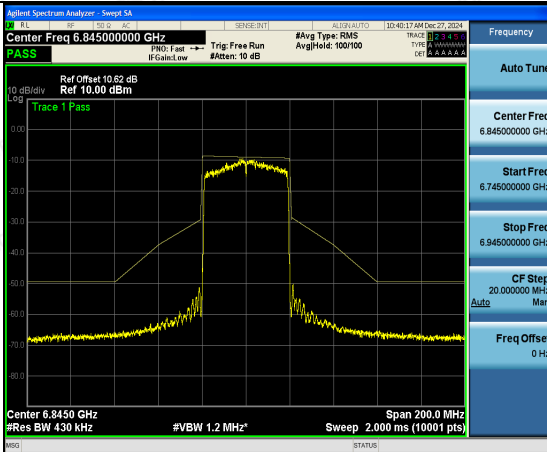
CH123



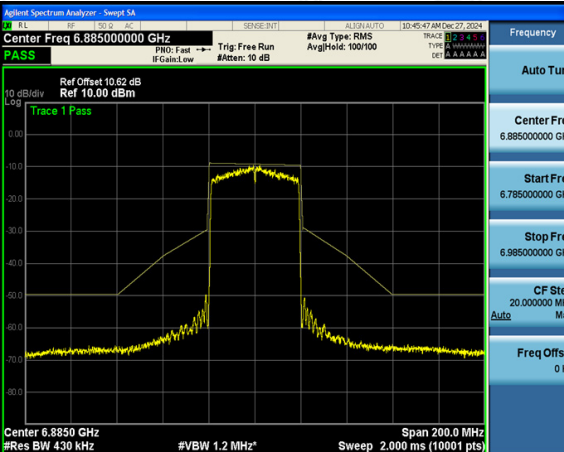
CH155



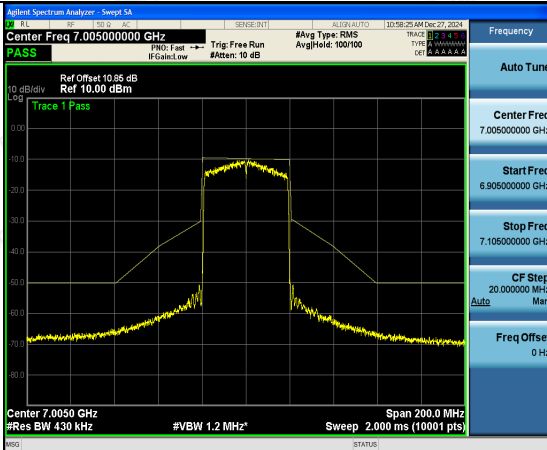
CH179



CH187



CH211



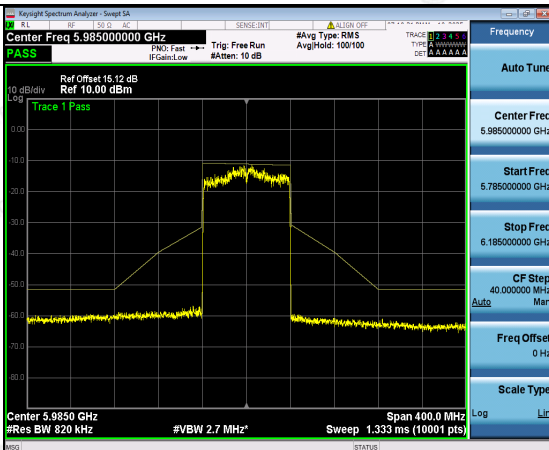
CH227



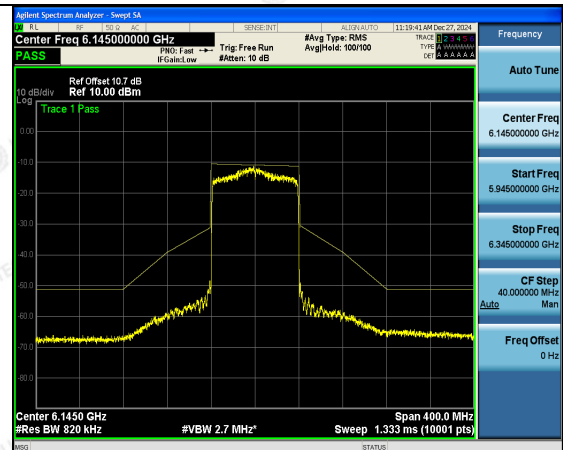


802.11ax (HE80)

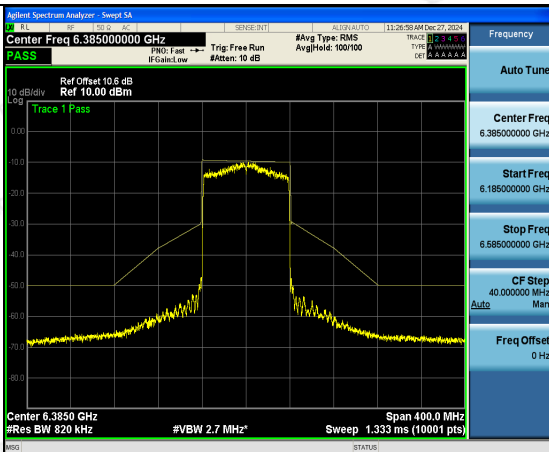
CH7



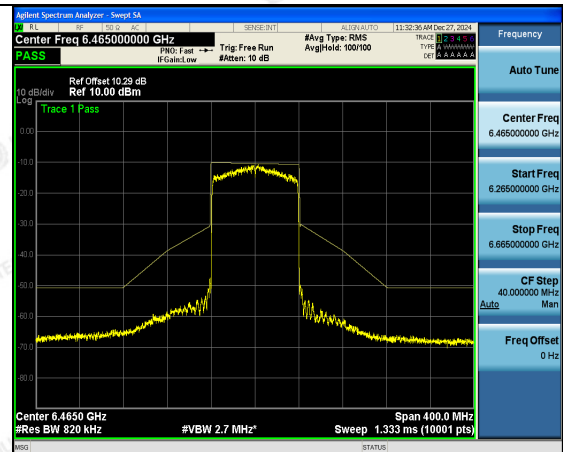
CH39



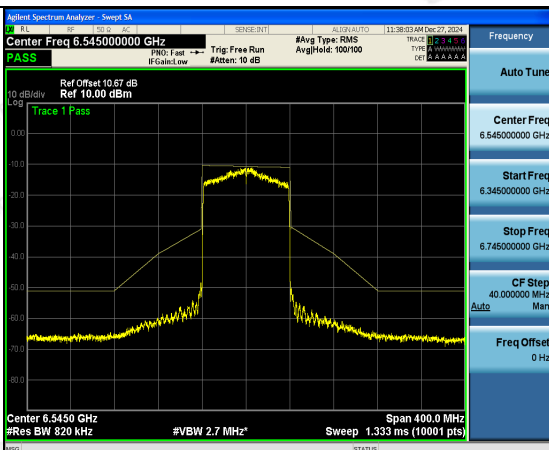
CH87



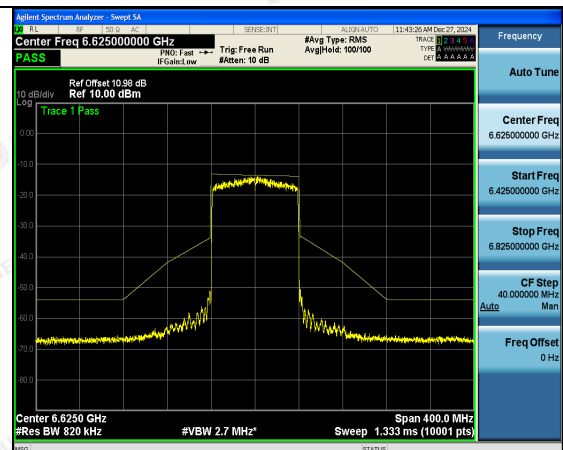
CH103



CH119

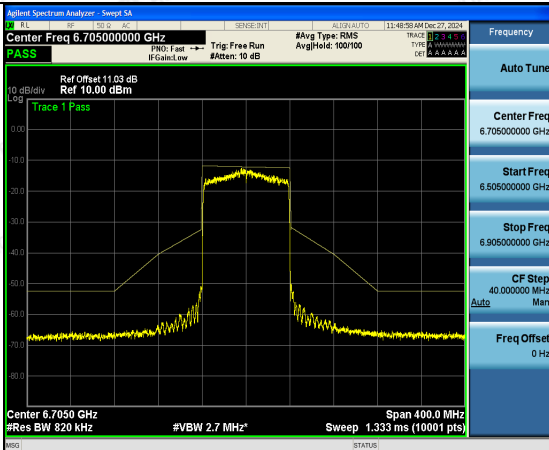


CH135

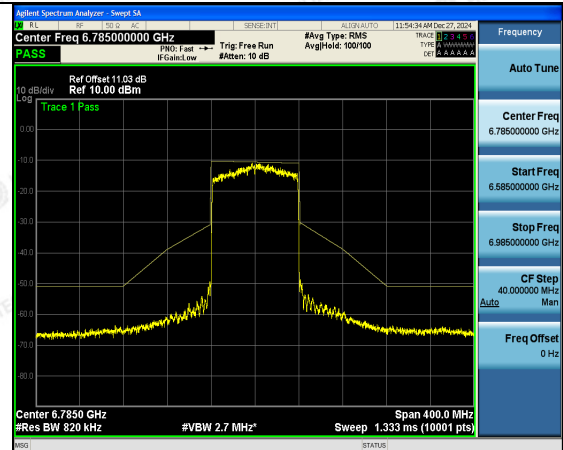




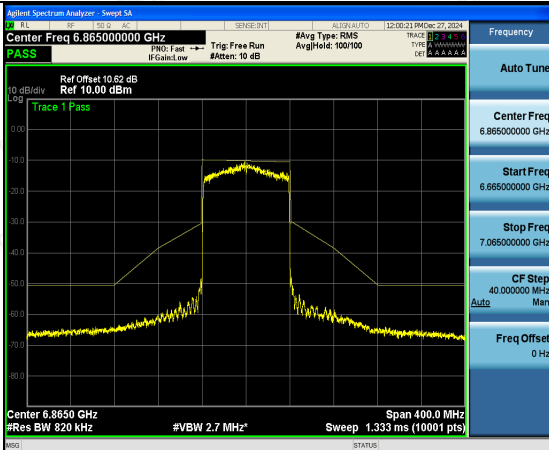
CH151



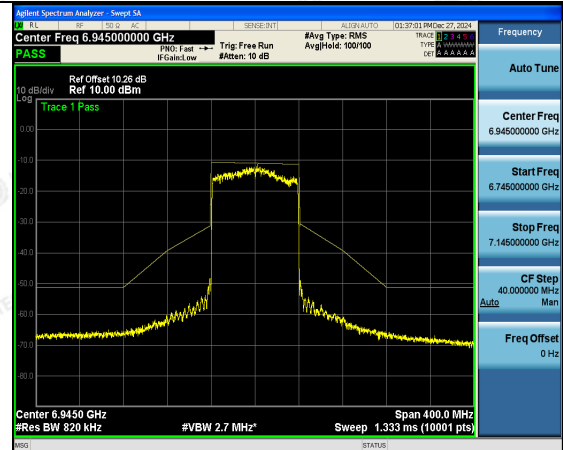
CH167



CH183



CH199



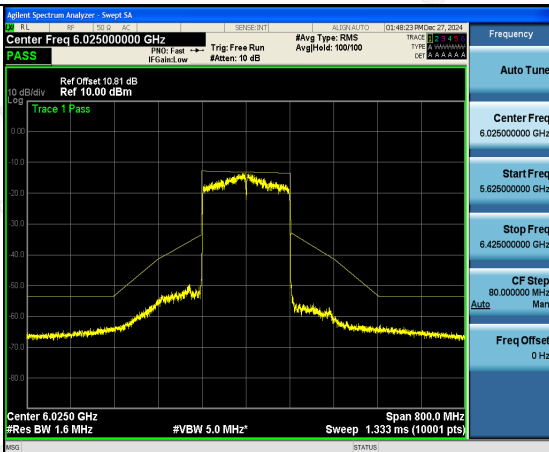
CH215



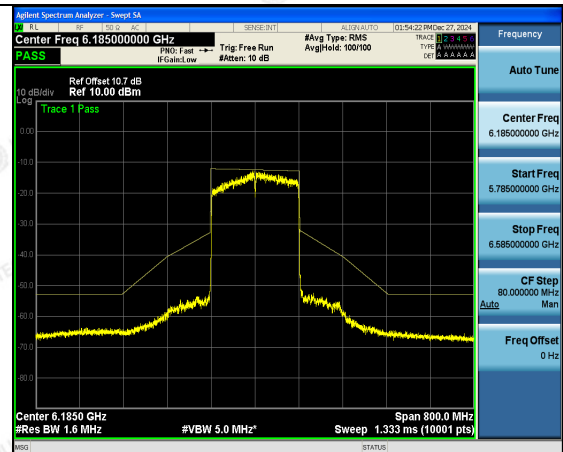


802.11ax (HE160)

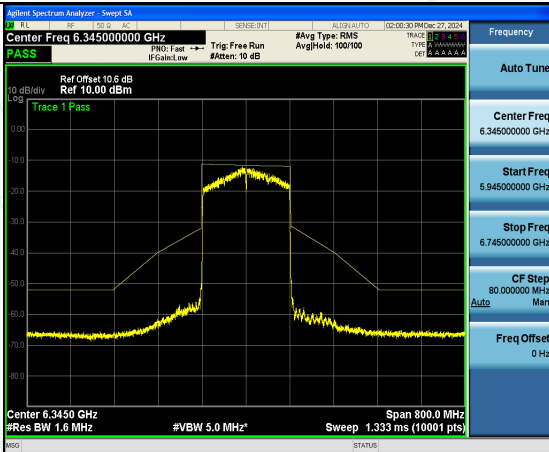
CH15



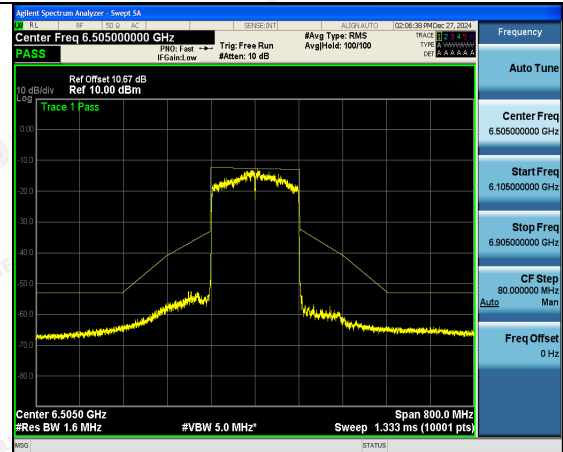
CH47



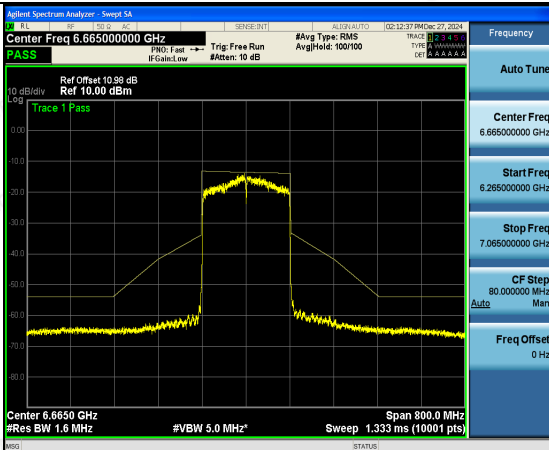
CH79



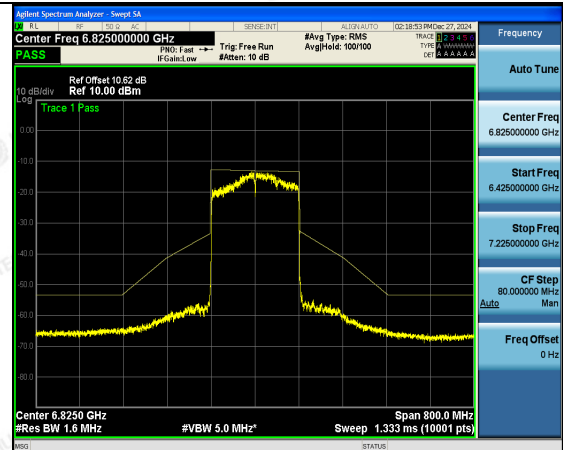
CH111



CH143



CH175





CH207



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