

Appendix - 5G WIFI

1. Duty Cycle

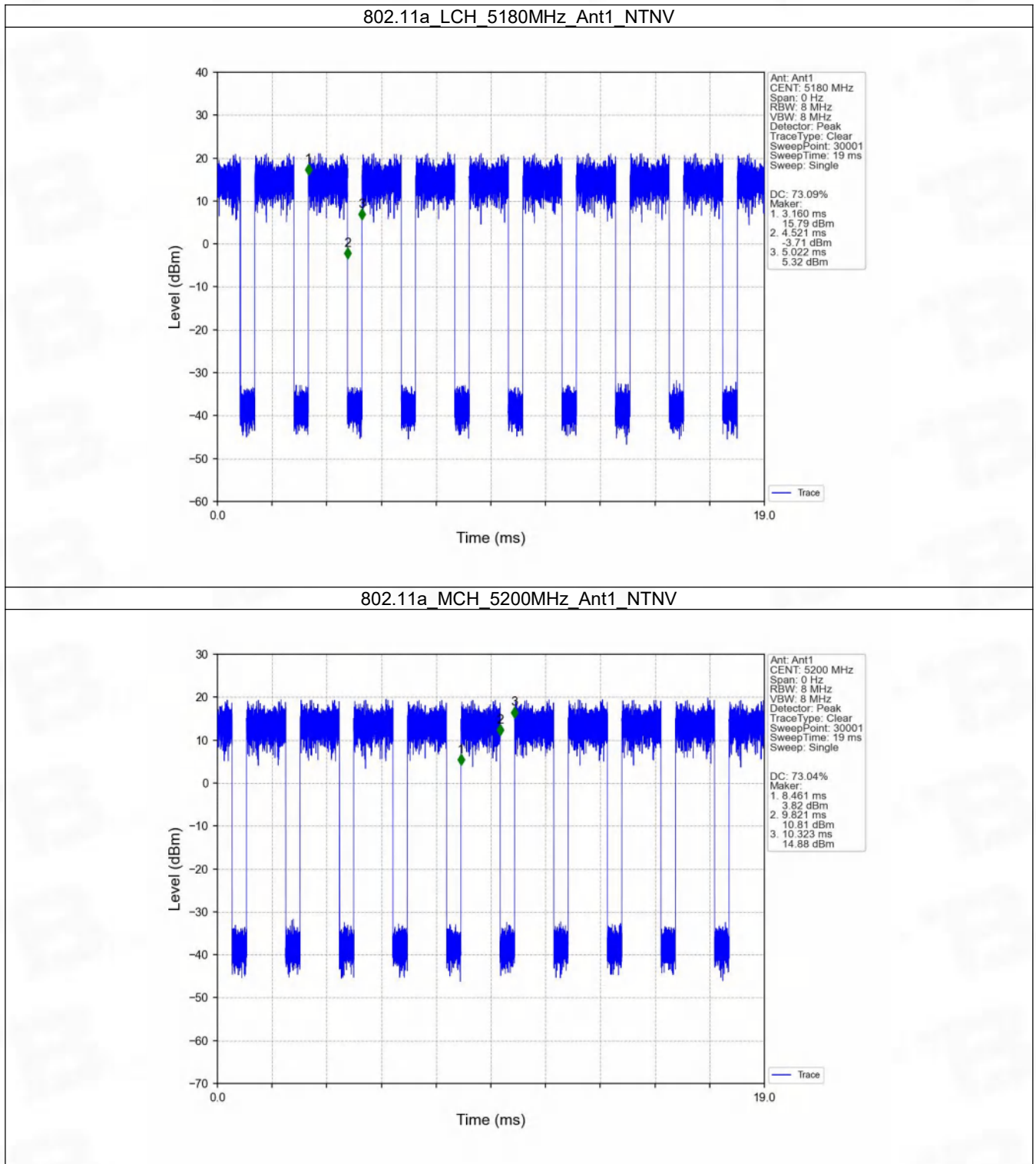
1.1 Test Result

1.1.1 Ant1

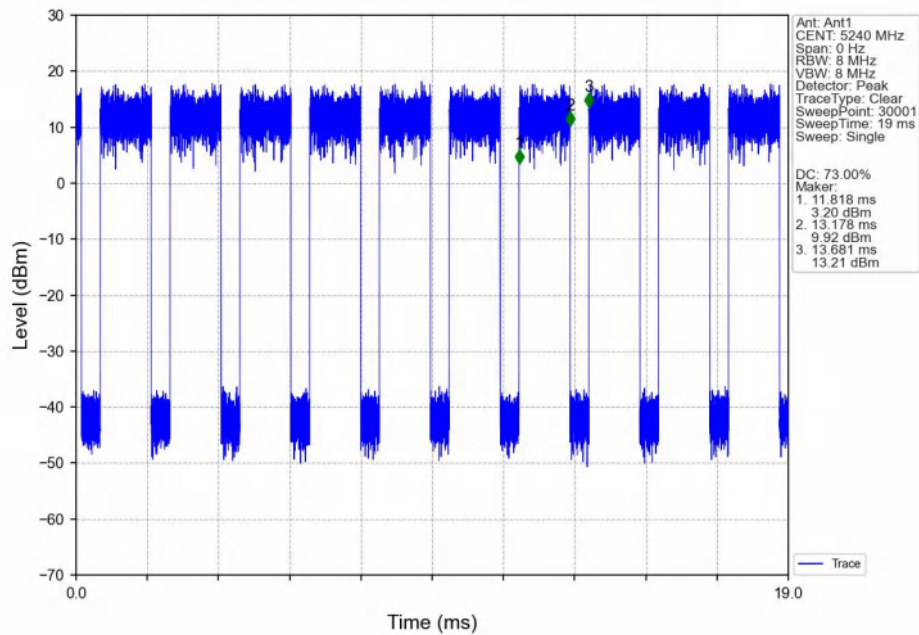
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	SISO	5180	1.361	1.862	73.09	1.36	0.03
			5200	1.360	1.862	73.04	1.36	0.03
			5240	1.360	1.863	73.00	1.37	0.06
	802.11n (HT20)	SISO	5180	1.272	1.774	71.70	1.44	0.02
			5200	1.273	1.775	71.72	1.44	0.03
			5240	1.272	1.774	71.70	1.44	0.07

1.2 Test Graph

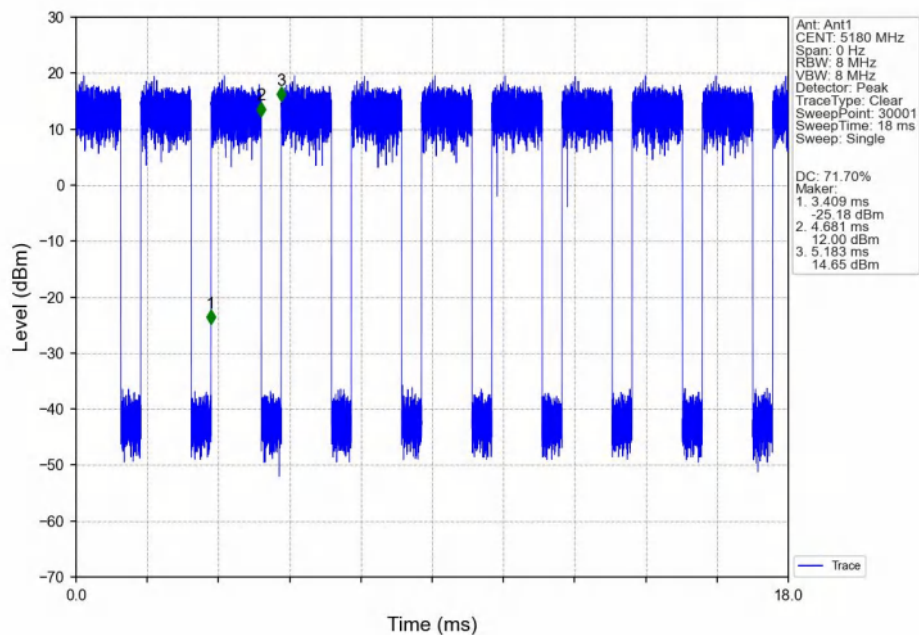
1.2.1 Ant1



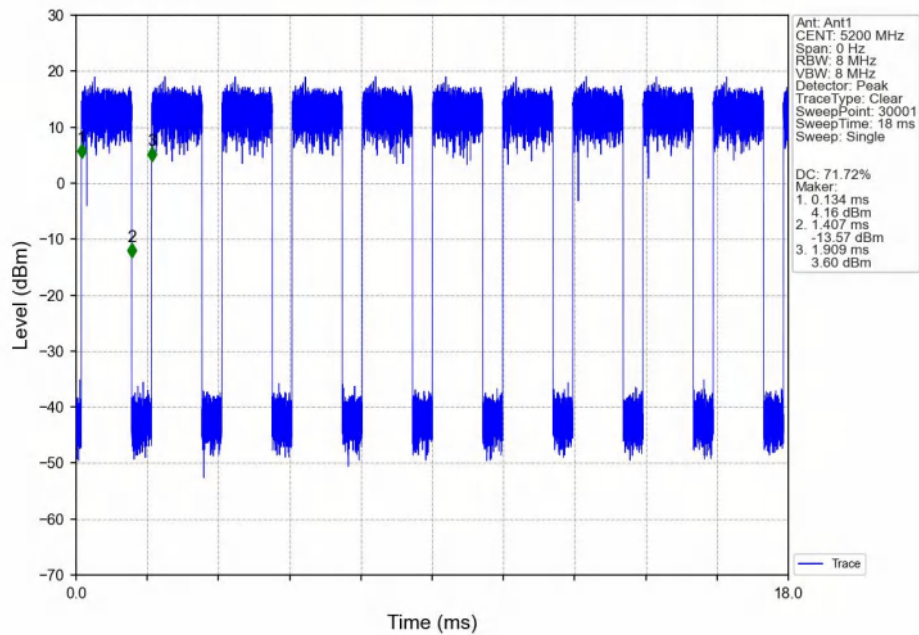
802.11a_HCH_5240MHz_Ant1_NTNV



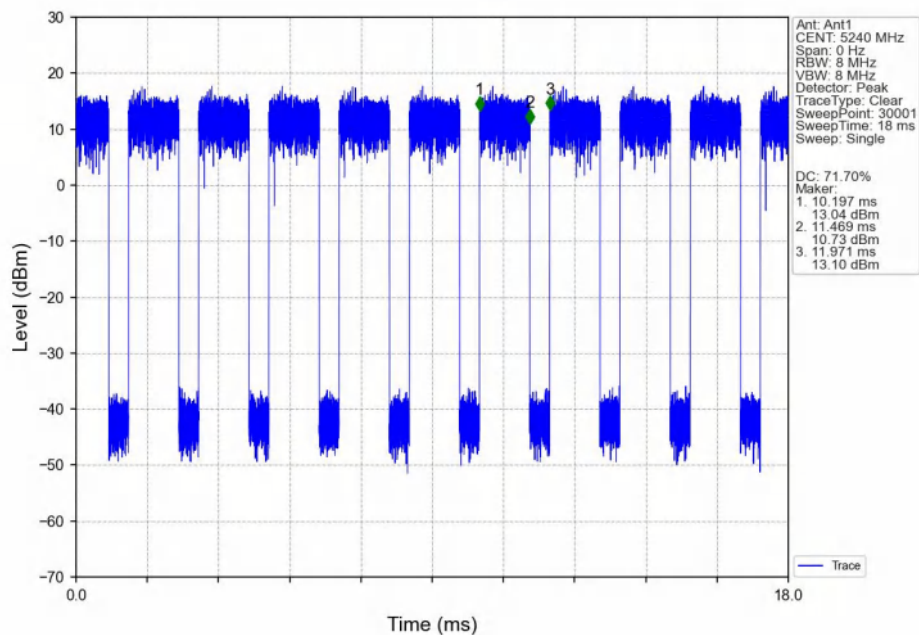
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



2. Frequency Error

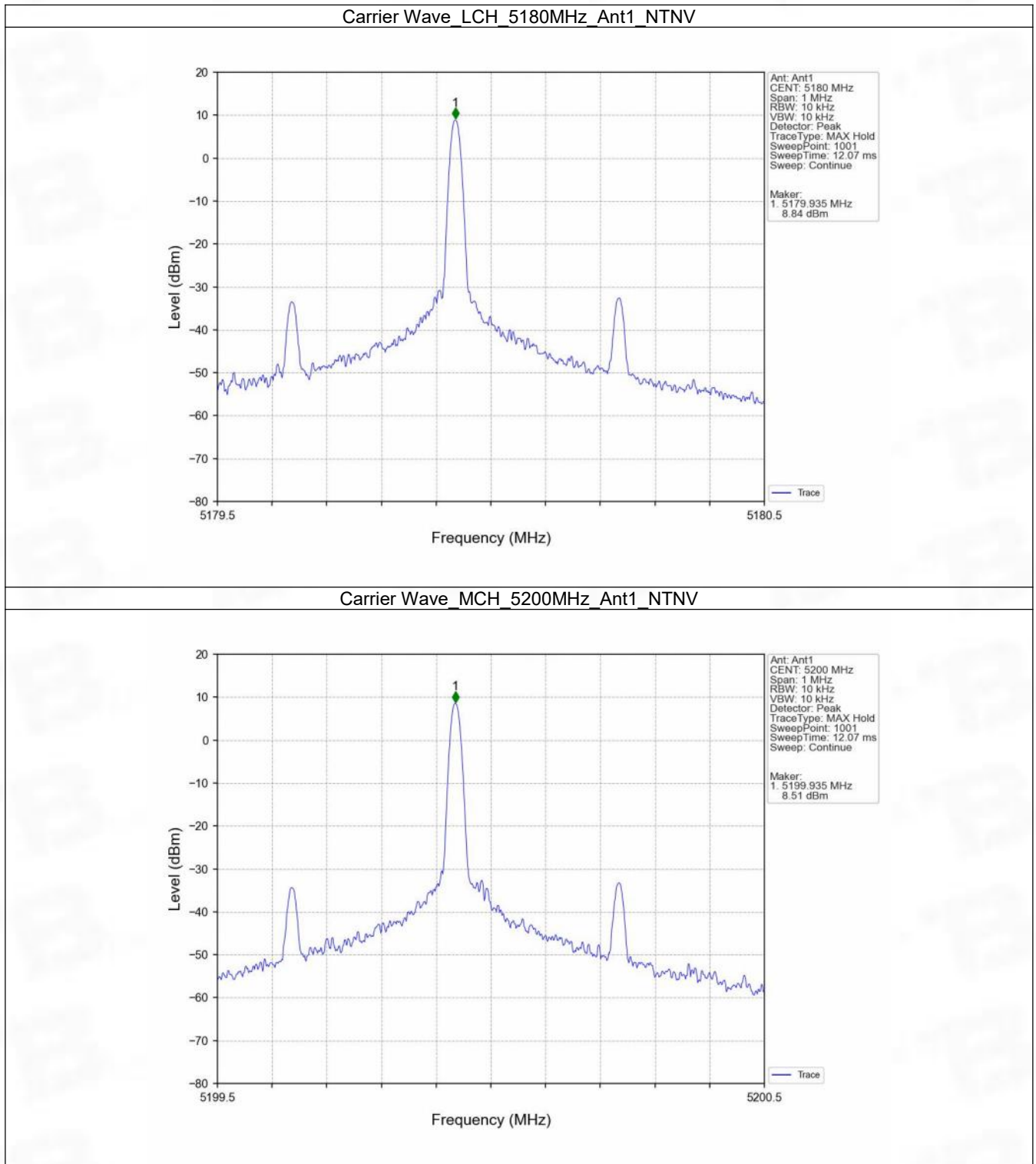
2.1 Test Result

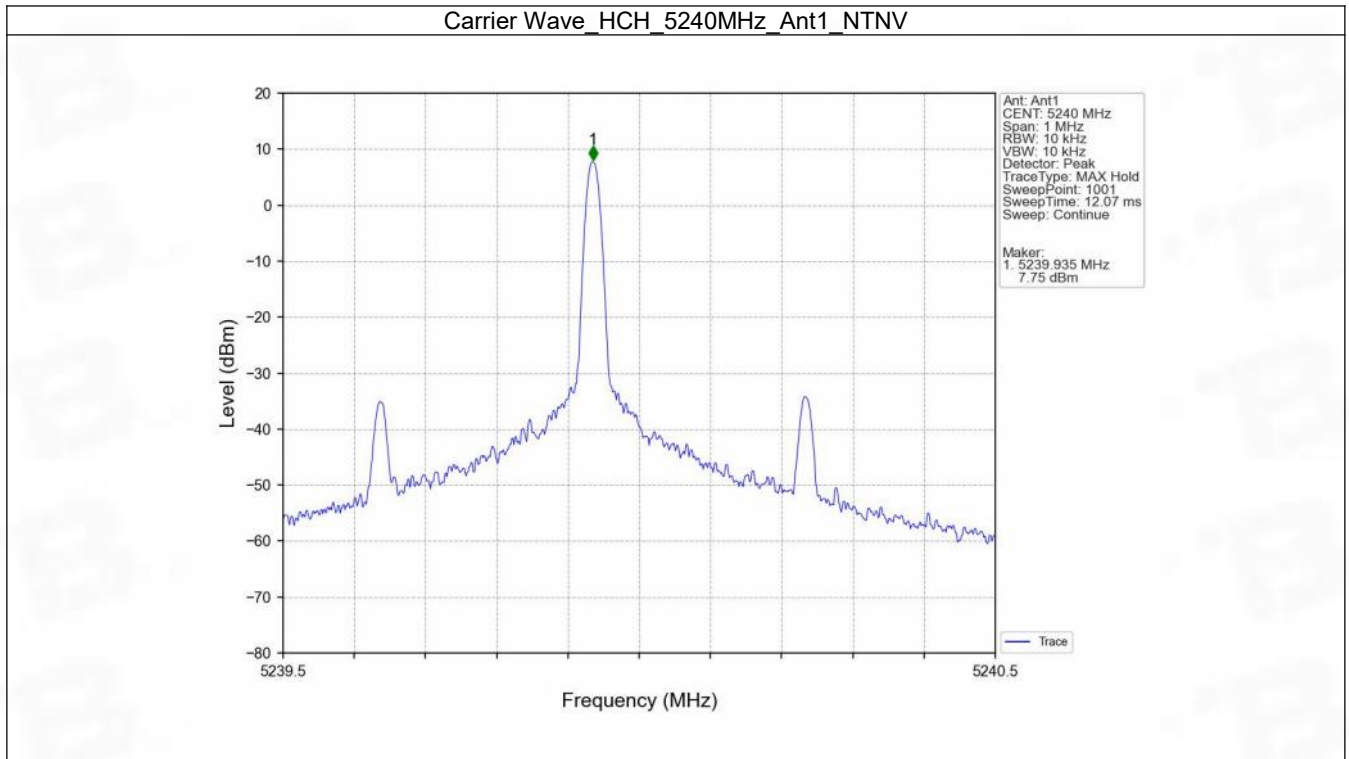
2.1.1 Ant1

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	5180	5179.935	-12.55	-20 to 20	Pass
			5200	5199.935	-12.50	-20 to 20	Pass
			5240	5239.935	-12.40	-20 to 20	Pass

2.2 Test Graph

2.2.1 Ant1





3. Occupied Bandwidth

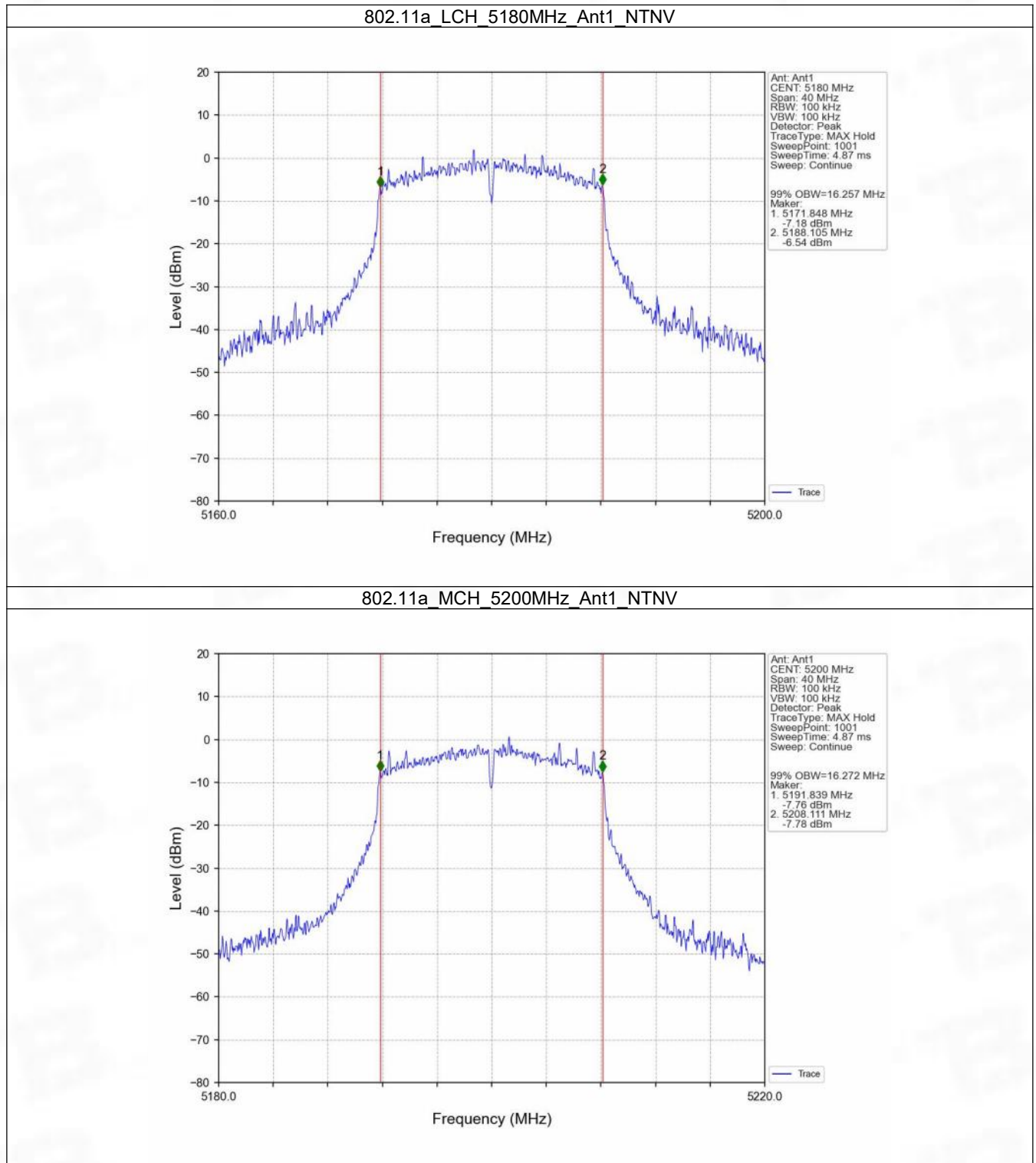
3.1 Test Result

3.1.1 OBW

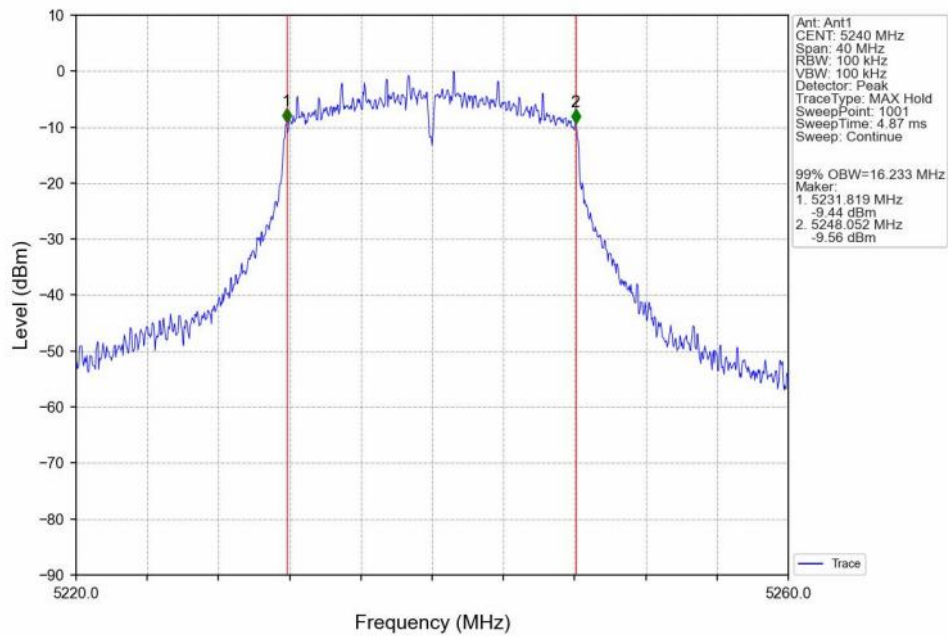
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11a	SISO	5180	16.257	<=20	Pass
			5200	16.272	<=20	Pass
			5240	16.233	<=20	Pass
	802.11n (HT20)	SISO	5180	17.398	<=20	Pass
			5200	17.425	<=20	Pass
			5240	17.411	<=20	Pass

3.2 Test Graph

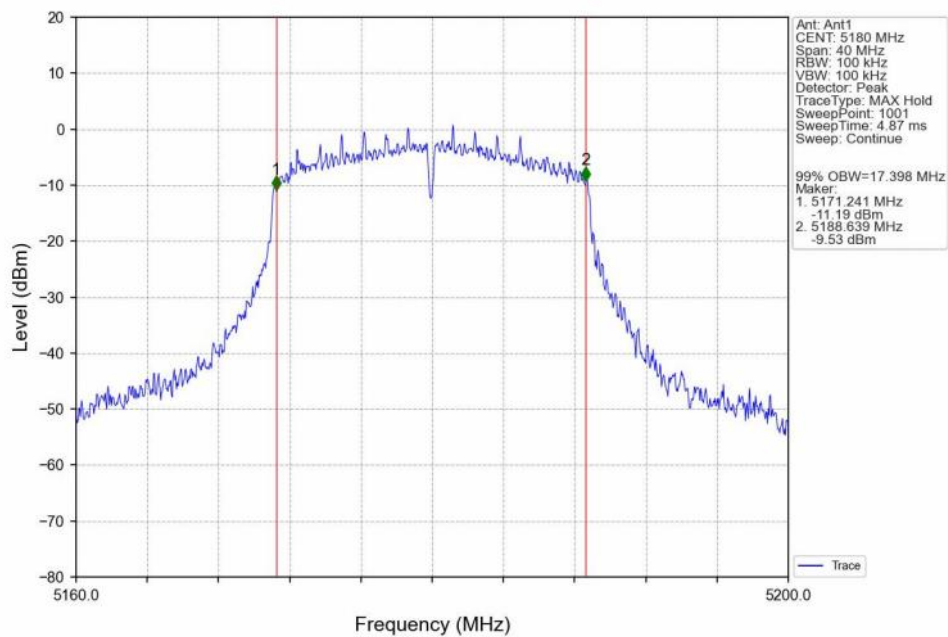
3.2.1 OBW



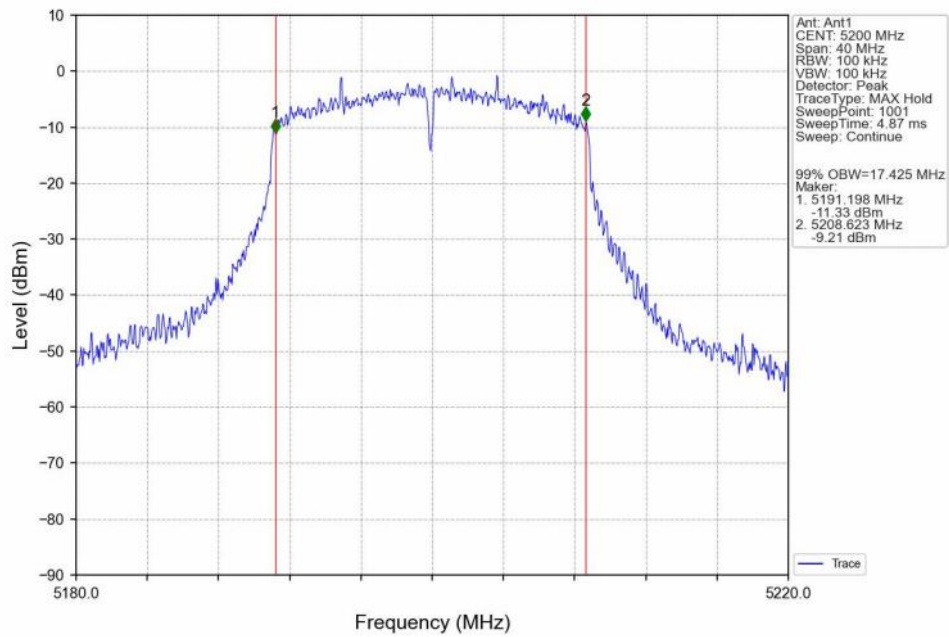
802.11a_HCH_5240MHz_Ant1_NTNV



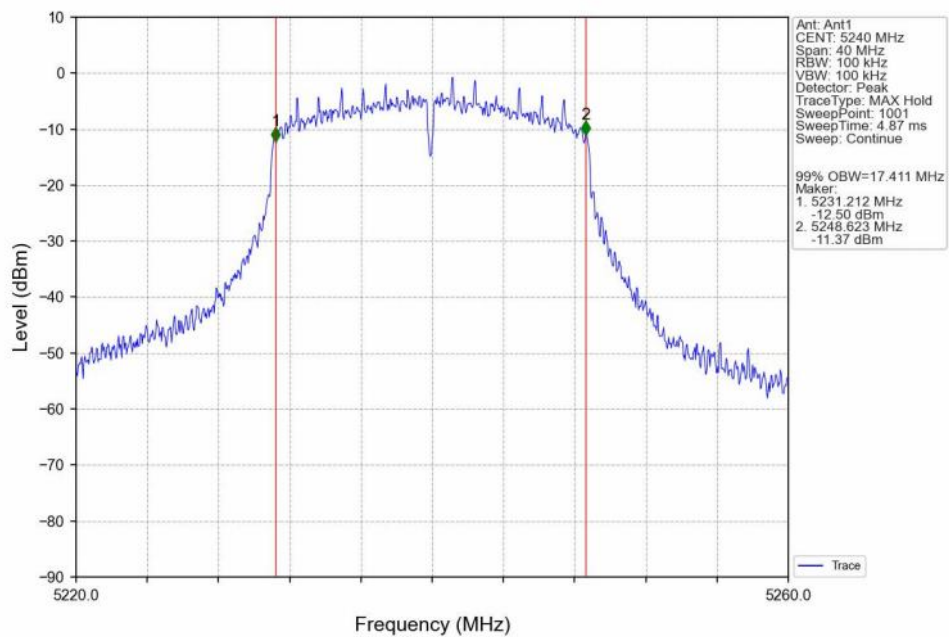
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



4. Antenna Power

4.1 Test Result

4.1.1 Power_NTNV

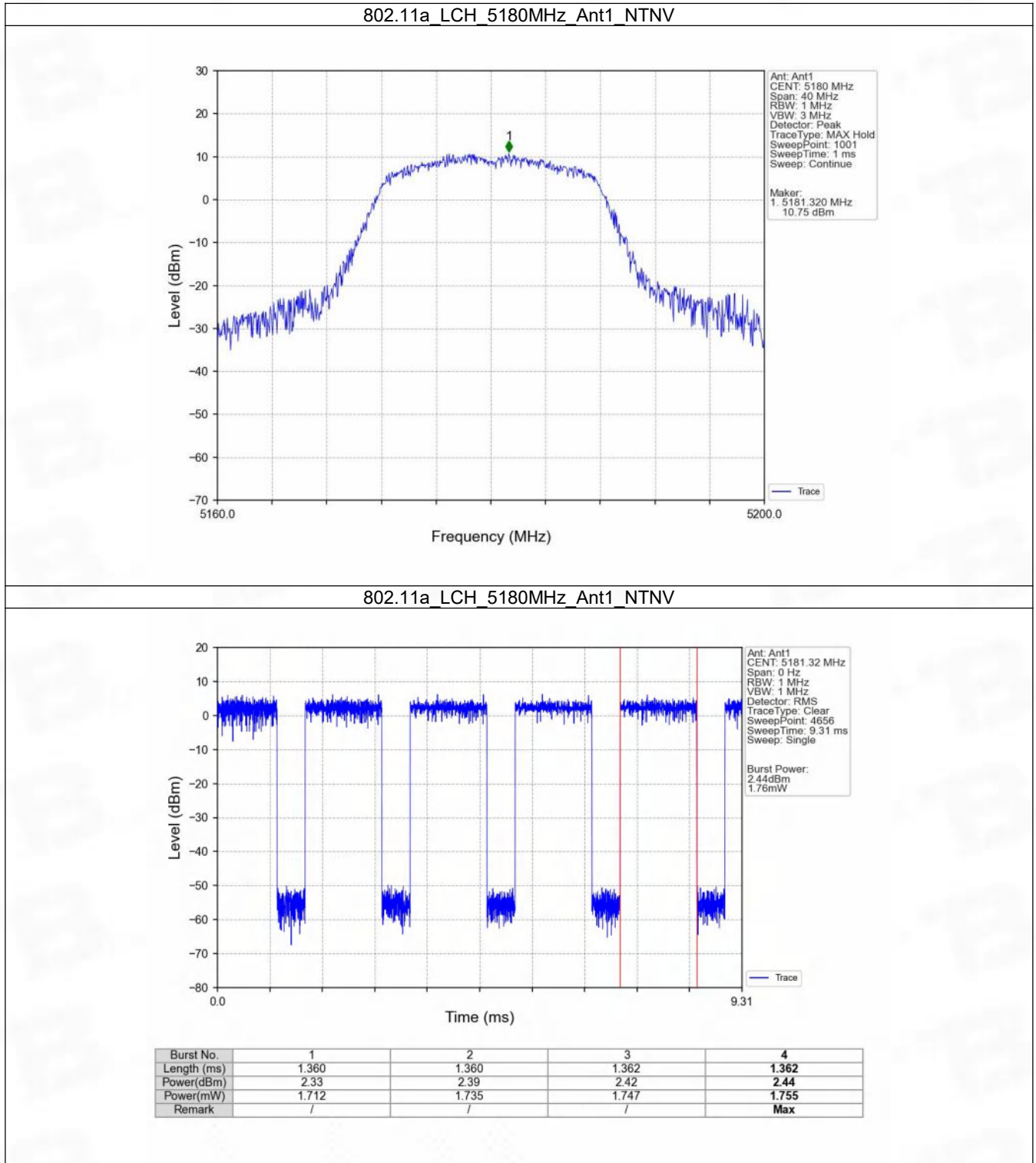
NTNV									
Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
				Measured	Limit		Measured	Limit	
802.11a	SISO	5180	1	1.755	≤ 10.00	1.800	-2.50	-80 to 20	Pass
		5200	1	1.436	≤ 10.00	1.800	-20.22	-80 to 20	Pass
		5240	1	0.971	≤ 10.00	1.800	-46.06	-80 to 20	Pass
802.11n (HT20)	SISO	5180	1	1.267	≤ 10.00	1.300	-2.54	-80 to 20	Pass
		5200	1	1.177	≤ 10.00	1.300	-9.46	-80 to 20	Pass
		5240	1	0.849	≤ 10.00	1.300	-34.69	-80 to 20	Pass

4.1.2 EIRP_NTNV

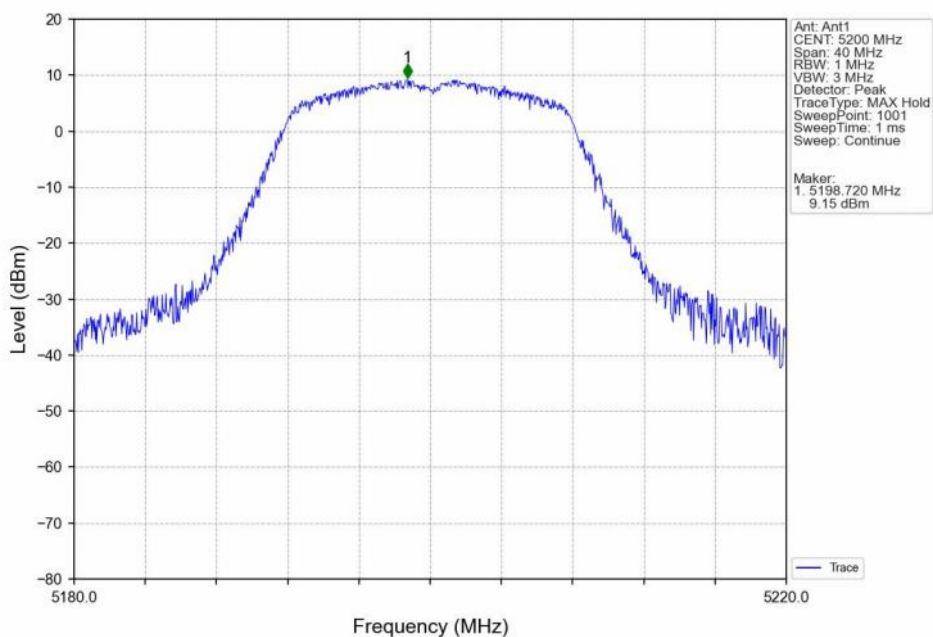
NTNV							
Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (mW/MHz)		Verdict
					Result	Limit	
802.11a	SISO	5180	1	2.22	2.93	≤ 10	Pass
		5200	1	2.22	2.39	≤ 10	Pass
		5240	1	2.22	1.62	≤ 10	Pass
802.11n (HT20)	SISO	5180	1	2.22	2.11	≤ 10	Pass
		5200	1	2.22	1.96	≤ 10	Pass
		5240	1	2.22	1.42	≤ 10	Pass

4.2 Test Graph

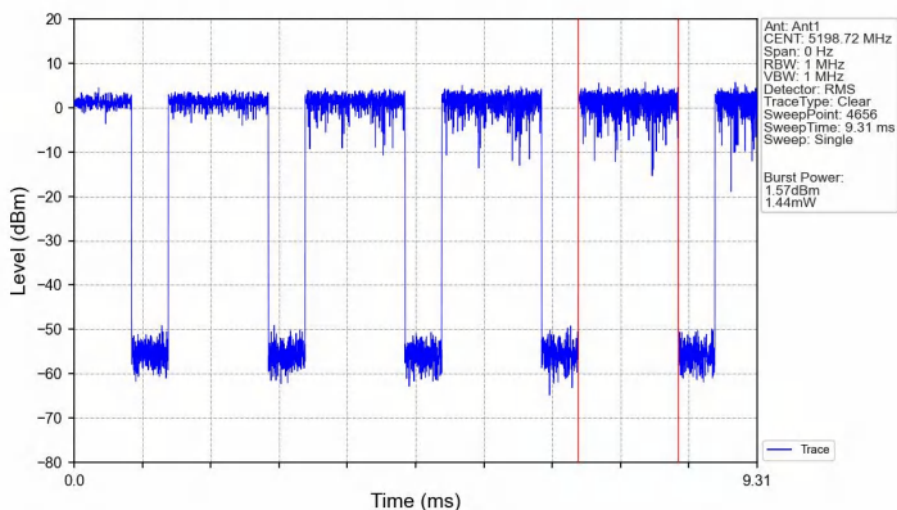
4.2.1 Power_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV

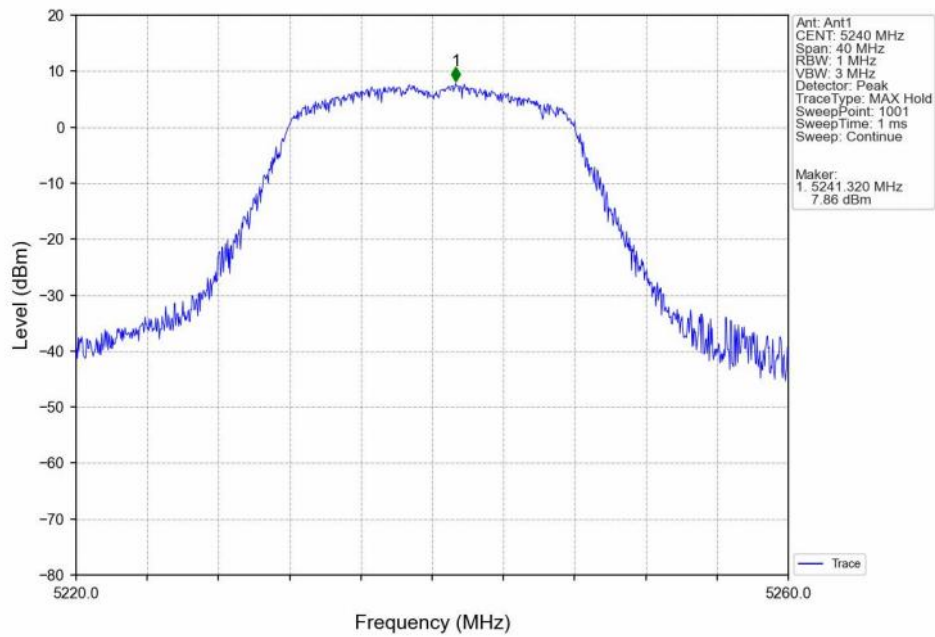


802.11a_MCH_5200MHz_Ant1_NTNV

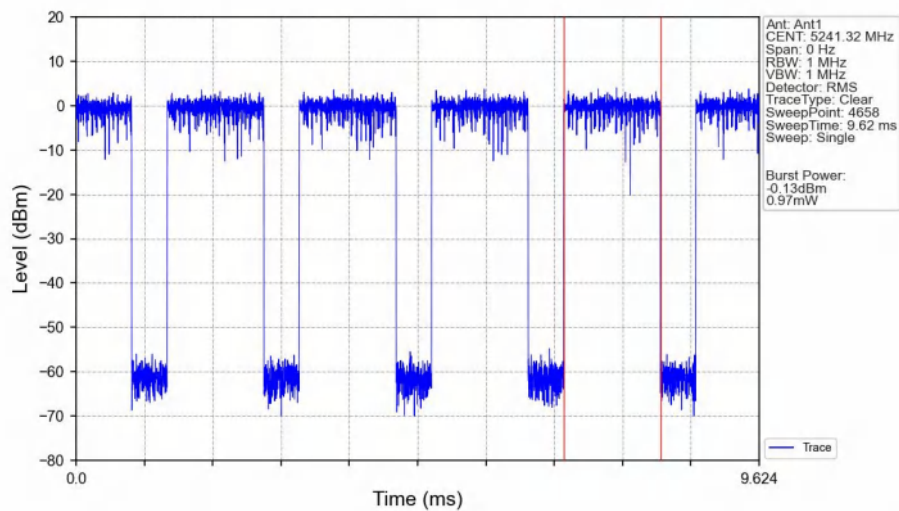


Burst No.	1	2	3	4
Length (ms)	1.362	1.362	1.362	1.362
Power(dBm)	1.40	1.48	1.54	1.57
Power(mW)	1.380	1.408	1.426	1.436
Remark	/	/	/	Max

802.11a_HCH_5240MHz_Ant1_NTNV

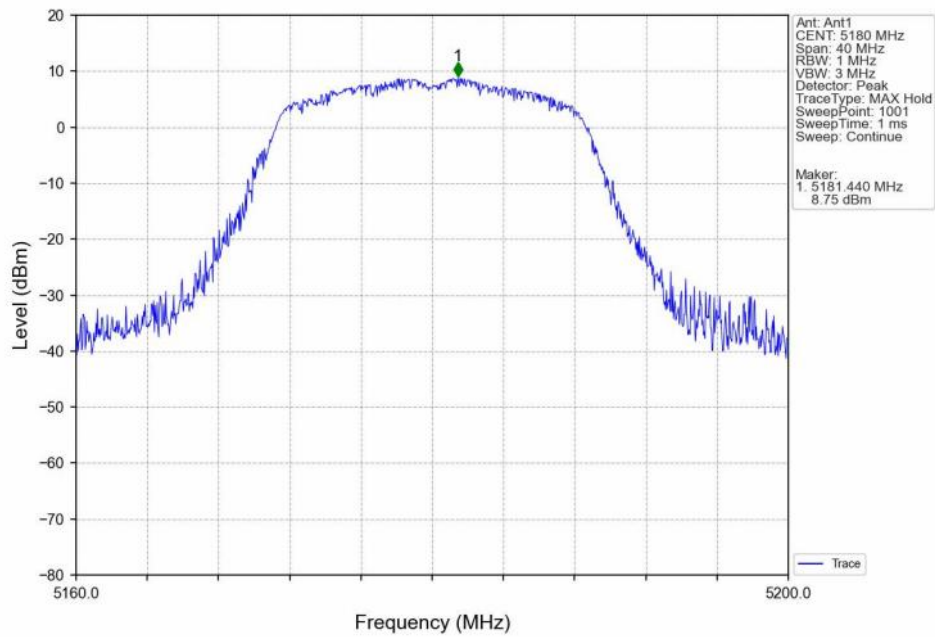


802.11a_HCH_5240MHz_Ant1_NTNV

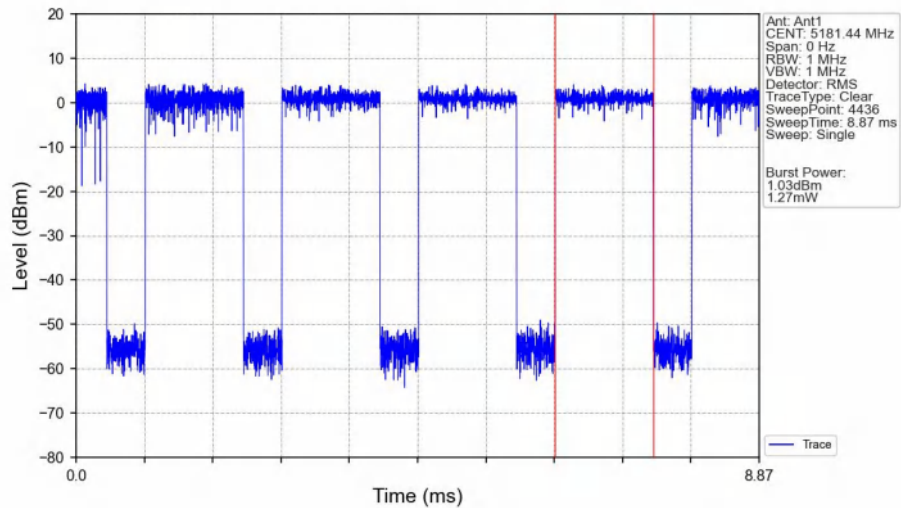


Burst No.	1	2	3	4
Length (ms)	1.362	1.362	1.360	1.360
Power(dBm)	-0.35	-0.25	-0.17	-0.13
Power(mW)	0.922	0.944	0.961	0.971
Remark	/	/	/	Max

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

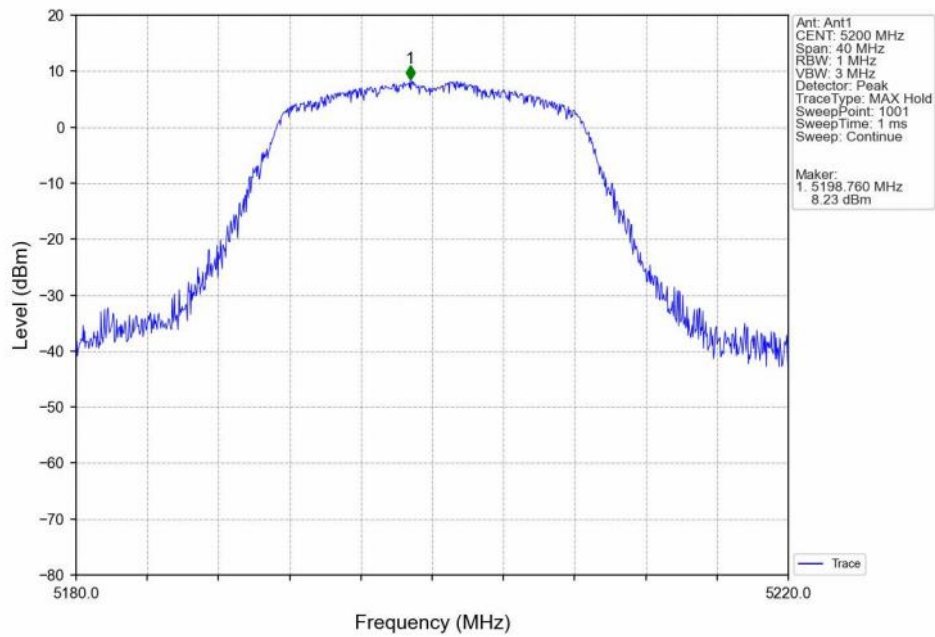


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

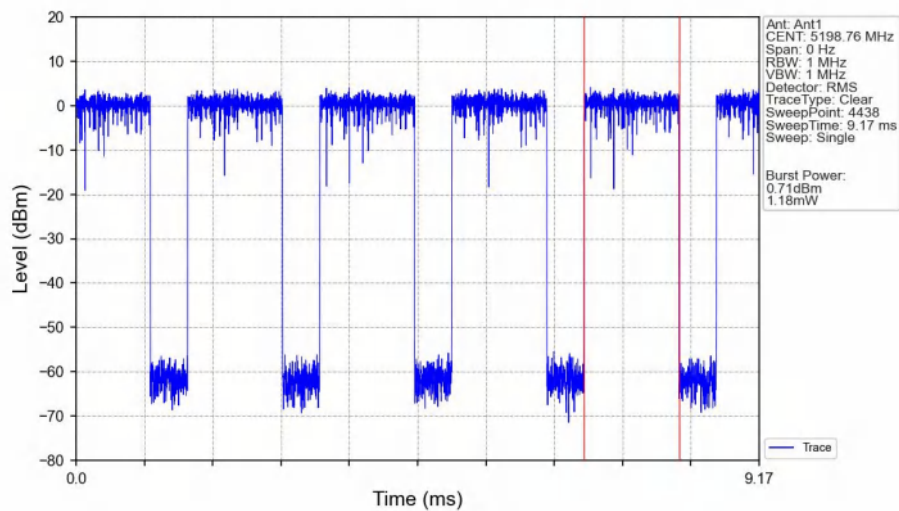


Burst No.	1	2	3	4
Length (ms)	1.272	1.272	1.272	1.274
Power(dBm)	0.83	0.94	1.00	1.03
Power(mW)	1.212	1.241	1.258	1.267
Remark	/	/	/	Max

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

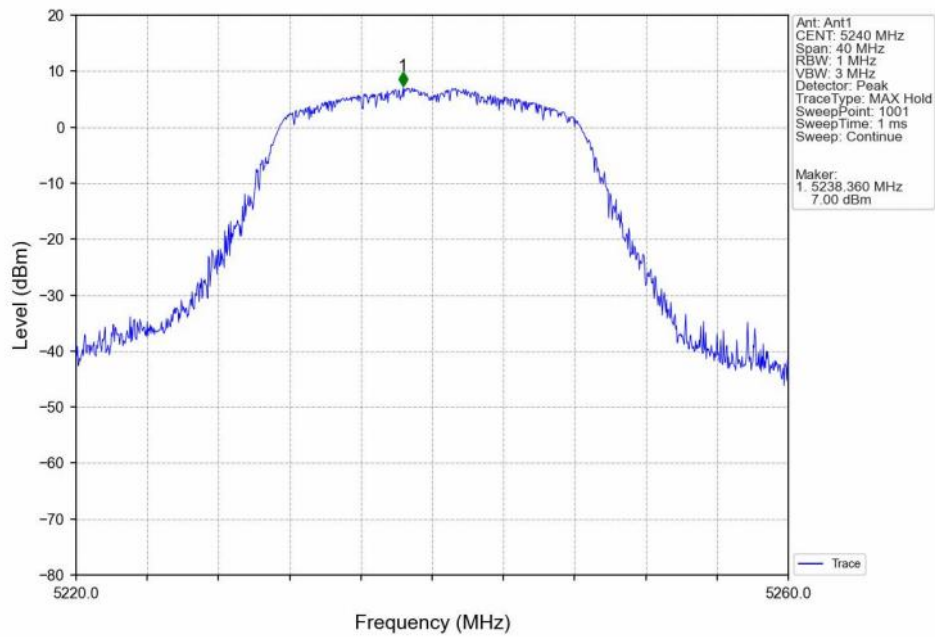


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

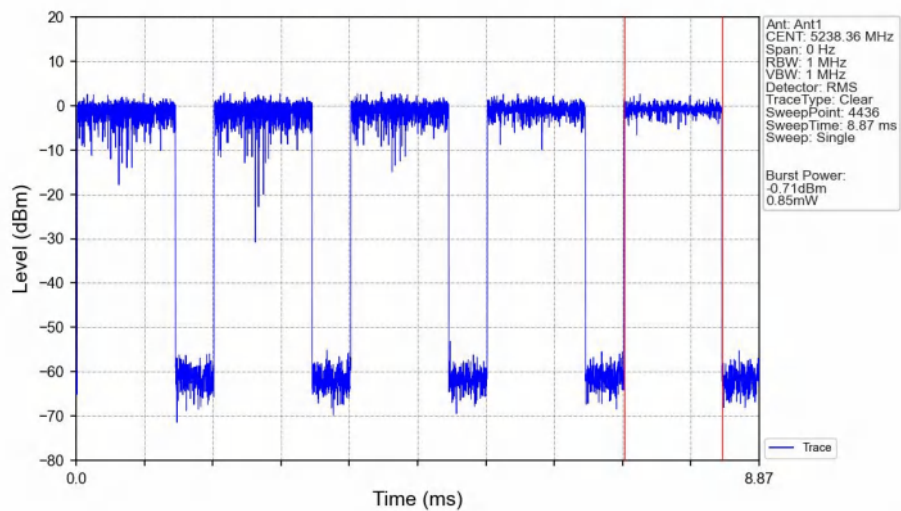


Burst No.	1	2	3	4
Length (ms)	1.271	1.273	1.273	1.273
Power(dBm)	0.52	0.61	0.67	0.71
Power(mW)	1.127	1.150	1.166	1.177
Remark	/	/	/	Max

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



Burst No.	1	2	3	4	5
Length (ms)	1.274	1.272	1.272	1.272	1.272
Power(dBm)	-1.09	-0.92	-0.82	-0.75	-0.71
Power(mW)	0.778	0.809	0.828	0.841	0.849
Remark	/	/	/	/	Max

5. Adjacent Channel Emitted Power

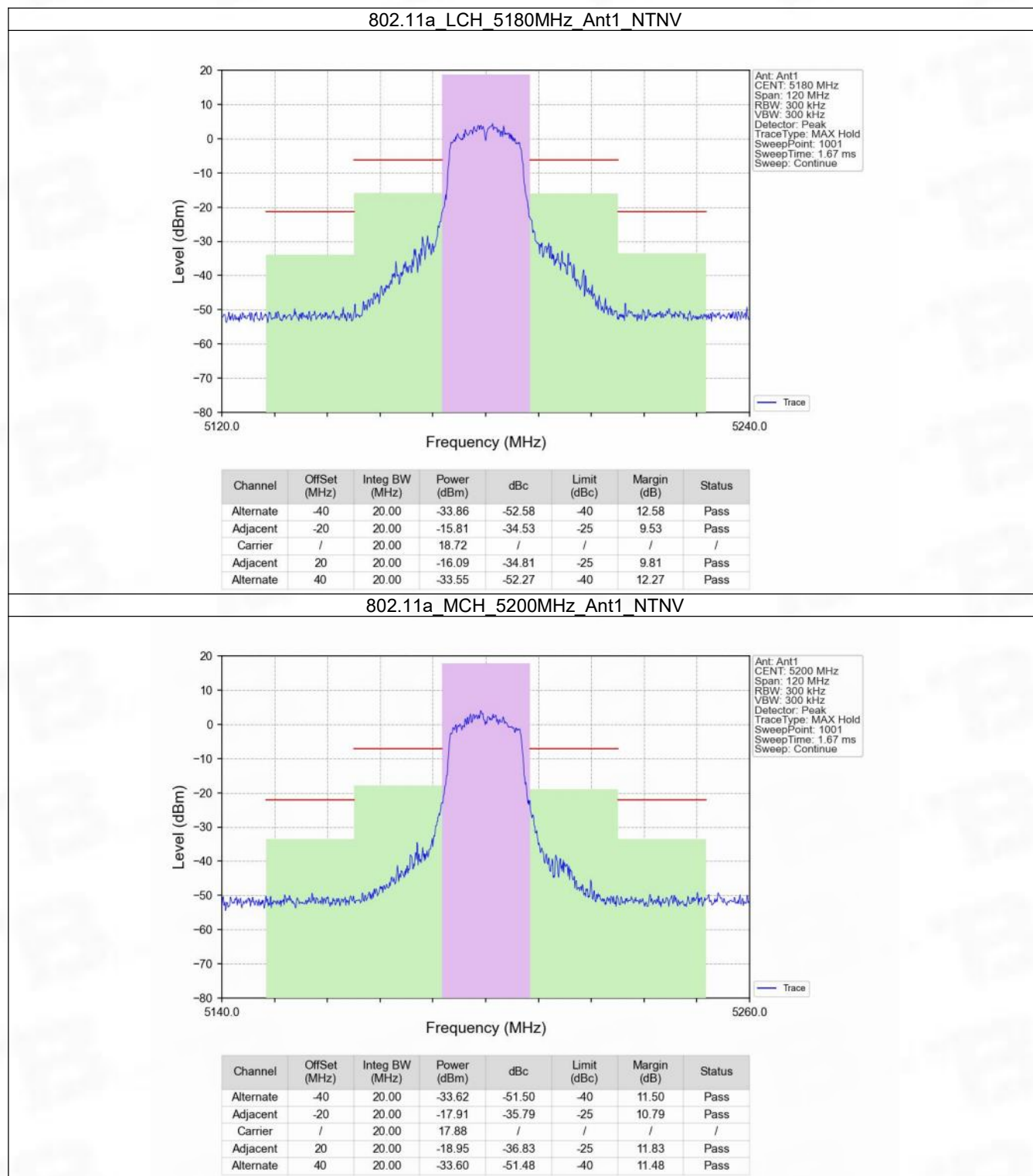
5.1 Test Result

5.1.1 ACLR_NTNV_SISO

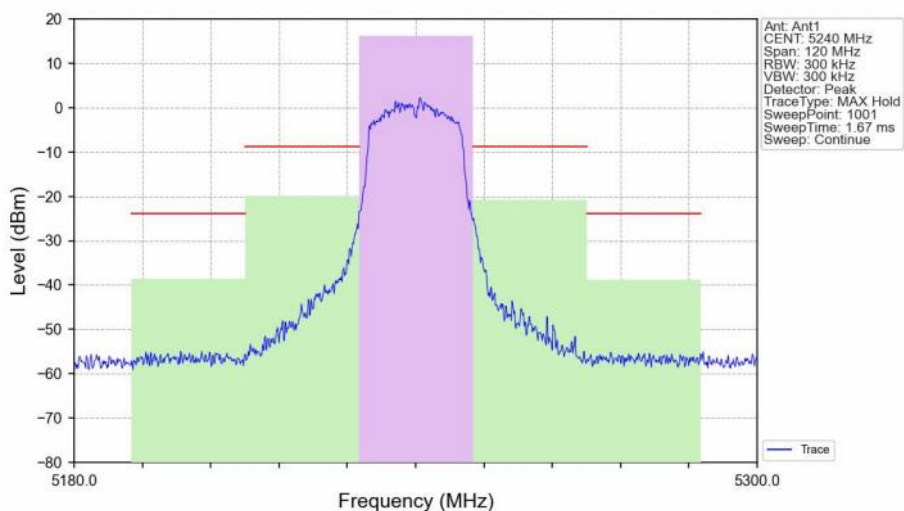
Mode	TX Type	Frequency (MHz)	ANT	NTNV					Verdict
				Offset (MHz)	Integ BW (MHz)	Power (dBm)	Result (dBc)	Limit (dBc)	
802.11a	SISO	5180	1	-40	20	-33.86	-52.58	<=-40	Pass
				-20	20	-15.81	-34.53	<=-25	Pass
				0	20	18.72	/	/	/
				20	20	-16.09	-34.81	<=-25	Pass
				40	20	-33.55	-52.27	<=-40	Pass
		5200	1	-40	20	-33.62	-51.50	<=-40	Pass
				-20	20	-17.91	-35.79	<=-25	Pass
				0	20	17.88	/	/	/
				20	20	-18.95	-36.83	<=-25	Pass
				40	20	-33.60	-51.48	<=-40	Pass
		5240	1	-40	20	-38.69	-54.84	<=-40	Pass
				-20	20	-19.83	-35.98	<=-25	Pass
802.11n (HT20)	SISO	5180	1	0	20	16.15	/	/	/
				20	20	-20.72	-36.87	<=-25	Pass
				40	20	-38.79	-54.94	<=-40	Pass
		5200	1	-40	20	-33.97	-51.51	<=-40	Pass
				-20	20	-16.64	-34.18	<=-25	Pass
				0	20	17.54	/	/	/
				20	20	-18.14	-35.68	<=-25	Pass
				40	20	-33.72	-51.26	<=-40	Pass
		5240	1	-40	20	-38.45	-55.27	<=-40	Pass
				-20	20	-16.31	-33.13	<=-25	Pass
				0	20	16.82	/	/	/
				20	20	-19.64	-36.46	<=-25	Pass
				40	20	-38.83	-55.65	<=-40	Pass
		5240	1	-40	20	-38.55	-54.30	<=-40	Pass
				-20	20	-17.13	-32.88	<=-25	Pass
				0	20	15.75	/	/	/
				20	20	-20.62	-36.37	<=-25	Pass
				40	20	-38.75	-54.50	<=-40	Pass

5.2 Test Graph

5.2.1 ACLR_NTNV_SISO

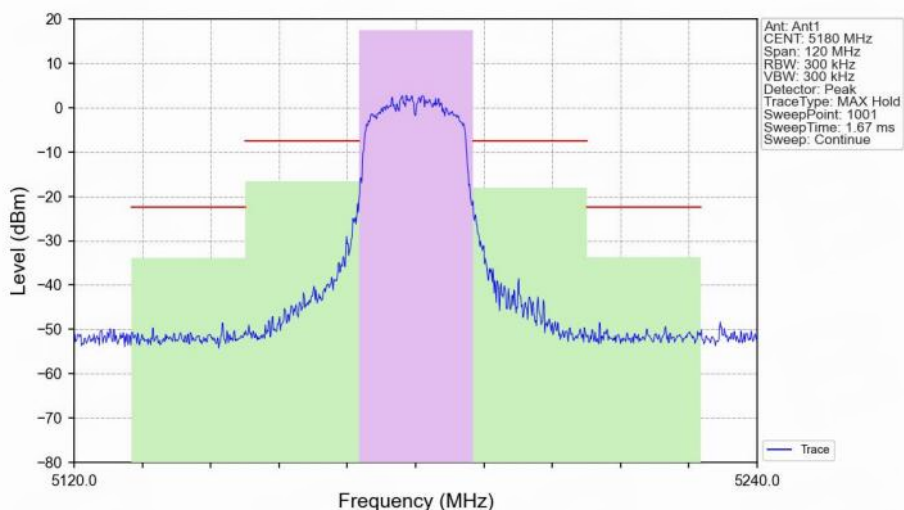


802.11a_HCH_5240MHz_Ant1_NTNV



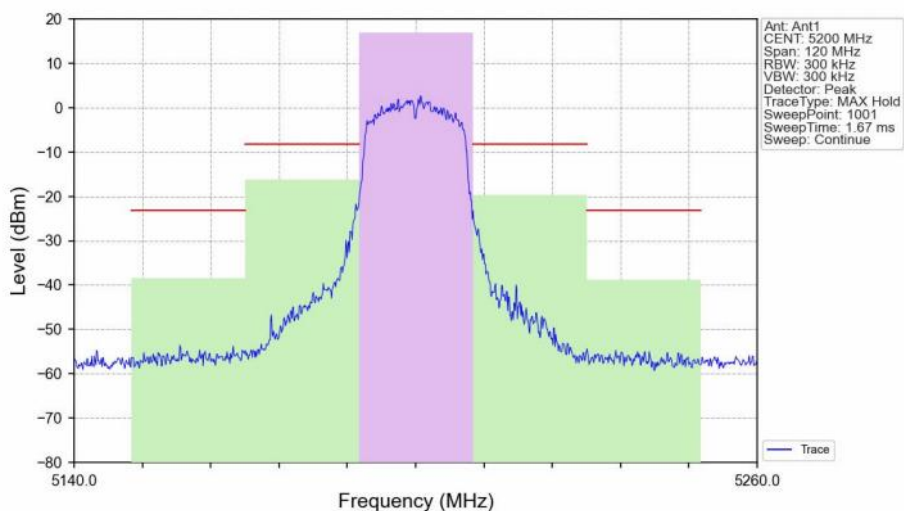
Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-38.69	-54.84	-40	14.84	Pass
Adjacent	-20	20.00	-19.83	-35.98	-25	10.98	Pass
Carrier	/	20.00	16.15	/	/	/	/
Adjacent	20	20.00	-20.72	-36.87	-25	11.87	Pass
Alternate	40	20.00	-38.79	-54.94	-40	14.94	Pass

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



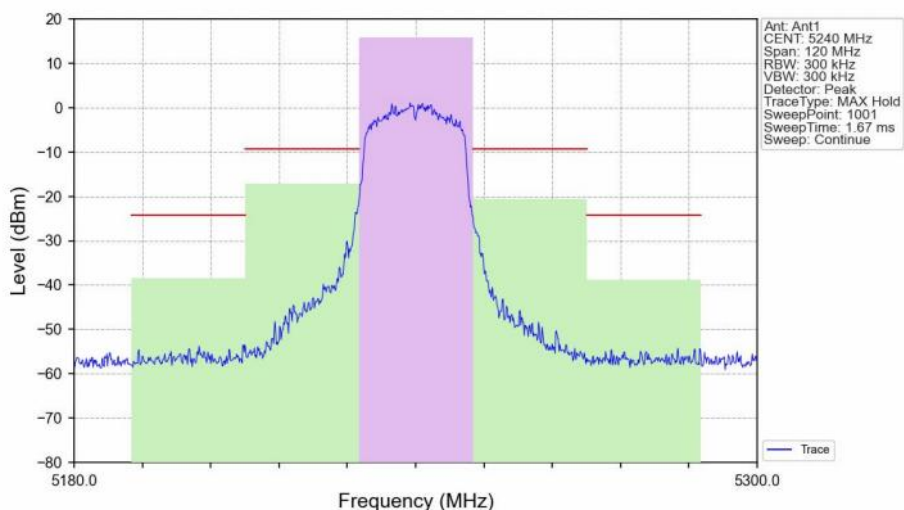
Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-33.97	-51.51	-40	11.51	Pass
Adjacent	-20	20.00	-16.64	-34.18	-25	9.18	Pass
Carrier	/	20.00	17.54	/	/	/	/
Adjacent	20	20.00	-18.14	-35.68	-25	10.68	Pass
Alternate	40	20.00	-33.72	-51.26	-40	11.26	Pass

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-38.45	-55.27	-40	15.27	Pass
Adjacent	-20	20.00	-16.31	-33.13	-25	8.13	Pass
Carrier	/	20.00	16.82	/	/	/	/
Adjacent	20	20.00	-19.64	-36.46	-25	11.46	Pass
Alternate	40	20.00	-38.83	-55.65	-40	15.65	Pass

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-38.55	-54.30	-40	14.30	Pass
Adjacent	-20	20.00	-17.13	-32.88	-25	7.88	Pass
Carrier	/	20.00	15.75	/	/	/	/
Adjacent	20	20.00	-20.62	-36.37	-25	11.37	Pass
Alternate	40	20.00	-38.75	-54.50	-40	14.50	Pass

6. Out Of Bands Leakage Power

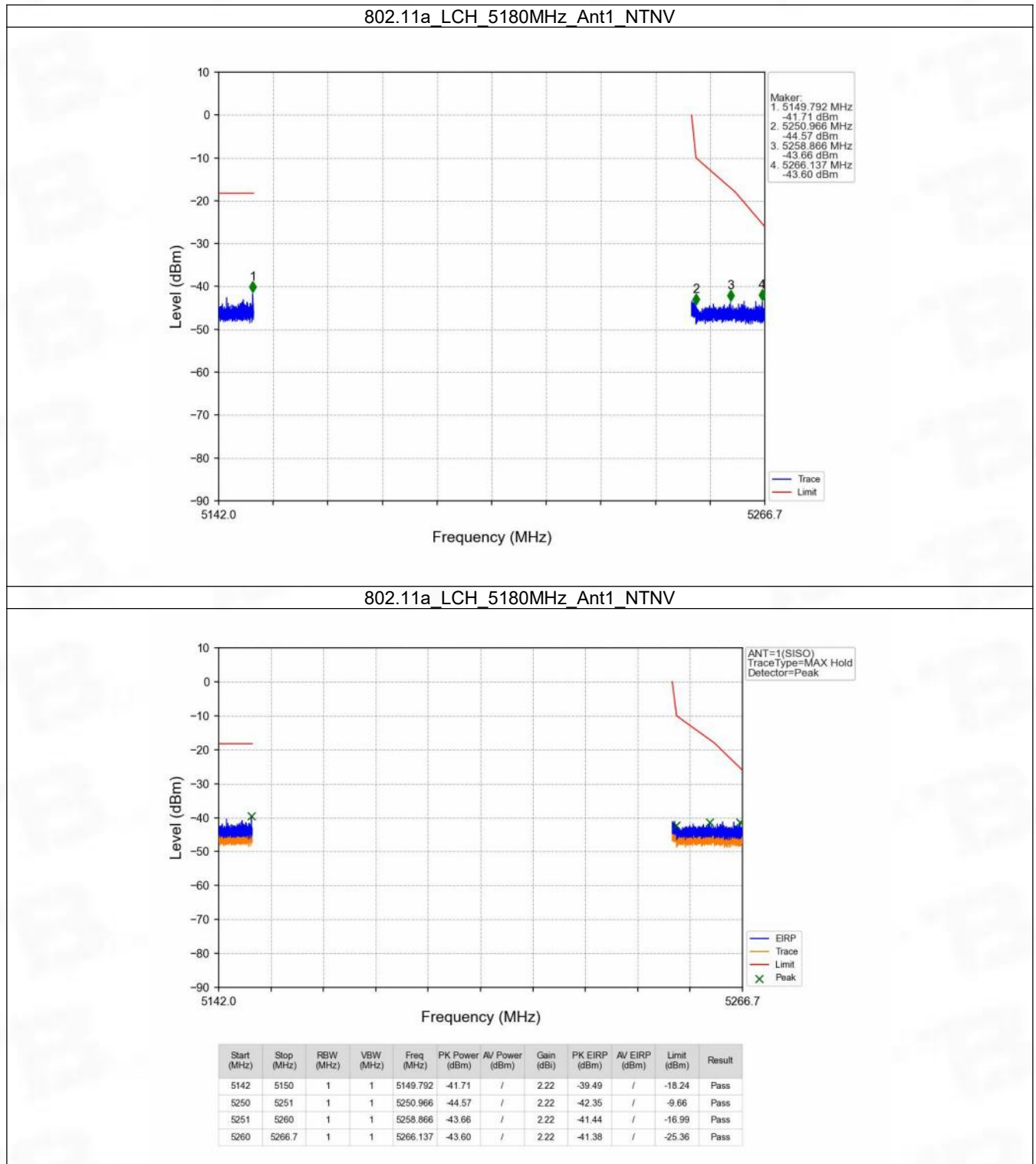
6.1 Test Result

6.1.1 OOB_NTNV_SISO

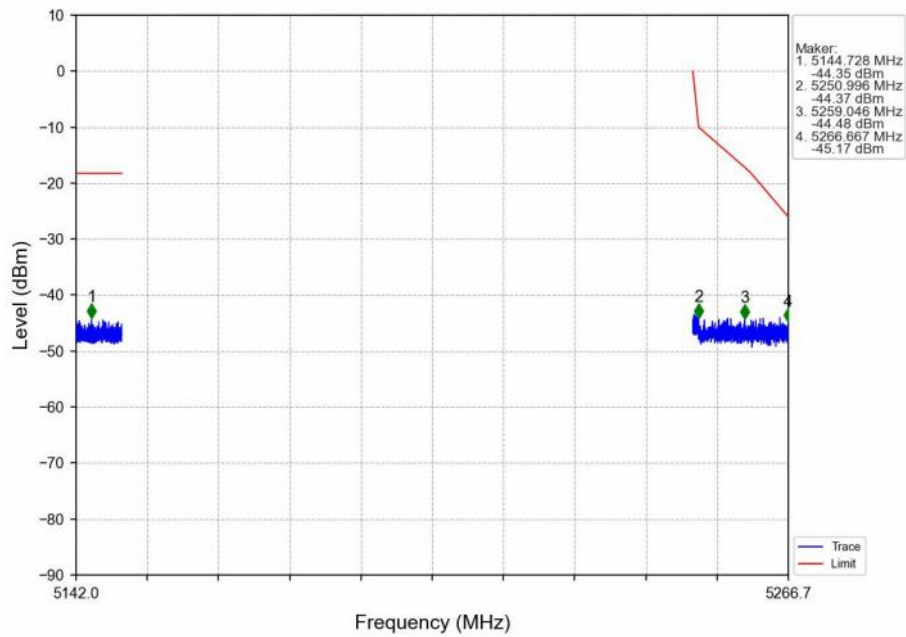
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK EIRP (dBm /MHz)	PK EIRP (uW /MHz)	AV EIRP (dBm /MHz)	AV EIRP (uW /MHz)		
802.11a	SISO	5180	1	5142	5150	5149.792	-39.49	0.112	/	/	15	Pass
				5250	5251	5250.966	-42.35	0.058	/	/	108.143	Pass
				5251	5260	5258.866	-41.44	0.072	/	/	19.989	Pass
				5260	5266.7	5266.137	-41.38	0.073	/	/	2.908	Pass
		5200	1	5142	5150	5144.728	-42.13	0.061	/	/	15	Pass
				5250	5251	5250.996	-42.15	0.061	/	/	100.925	Pass
				5251	5260	5259.046	-42.26	0.059	/	/	19.266	Pass
				5260	5266.7	5266.667	-42.95	0.051	/	/	2.512	Pass
		5240	1	5142	5150	5145.216	-46.50	0.022	/	/	15	Pass
				5250	5251	5250.995	-16.93	20.277	/	/	101.158	Pass
				5251	5260	5251.009	-17.73	16.866	/	/	99.816	Pass
				5260	5266.7	5263.29	-36.04	0.249	/	/	6.386	Pass
802.11n (HT20)	SISO	5180	1	5142	5150	5142.504	-41.67	0.068	/	/	15	Pass
				5250	5251	5250.955	-41.91	0.064	/	/	110.917	Pass
				5251	5260	5259.973	-43.00	0.050	/	/	15.937	Pass
				5260	5266.7	5265.729	-41.98	0.063	/	/	3.255	Pass
		5200	1	5142	5150	5142.952	-47.20	0.019	/	/	15	Pass
				5250	5251	5250.989	-47.79	0.017	/	/	102.565	Pass
				5251	5260	5259.784	-47.48	0.018	/	/	16.565	Pass
				5260	5266.7	5266.6	-47.74	0.017	/	/	2.559	Pass
		5240	1	5142	5150	5147.864	-45.77	0.026	/	/	15	Pass
				5250	5251	5250.991	-15.42	28.708	/	/	102.094	Pass
				5251	5260	5251.009	-16.37	23.067	/	/	99.816	Pass
				5260	5266.7	5264.261	-40.65	0.086	/	/	4.883	Pass

6.2 Test Graph

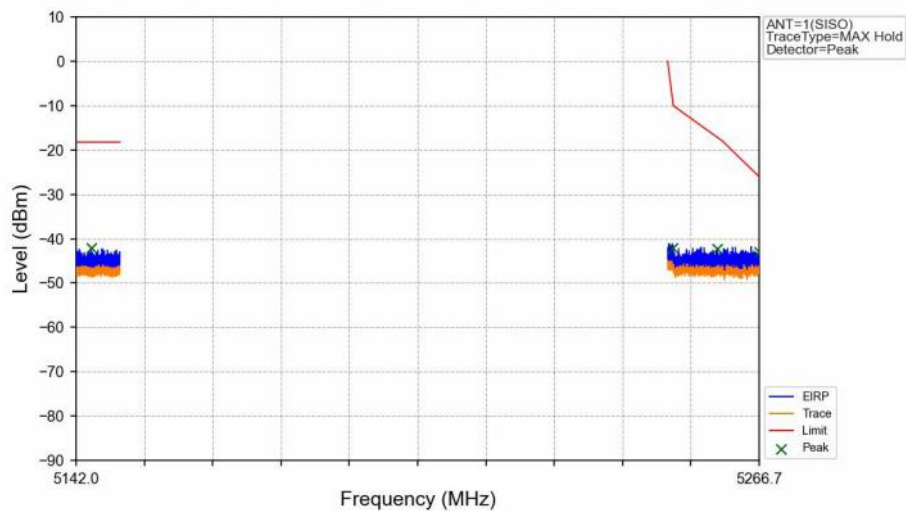
6.2.1 OOB_NTNV_SISO



802.11a_MCH_5200MHz_Ant1_NTNV

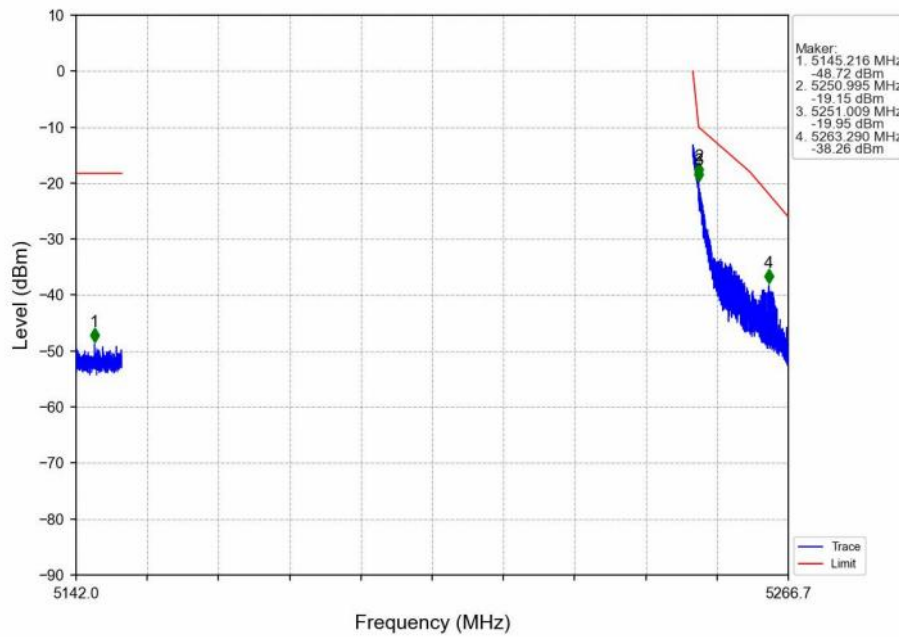


802.11a_MCH_5200MHz_Ant1_NTNV

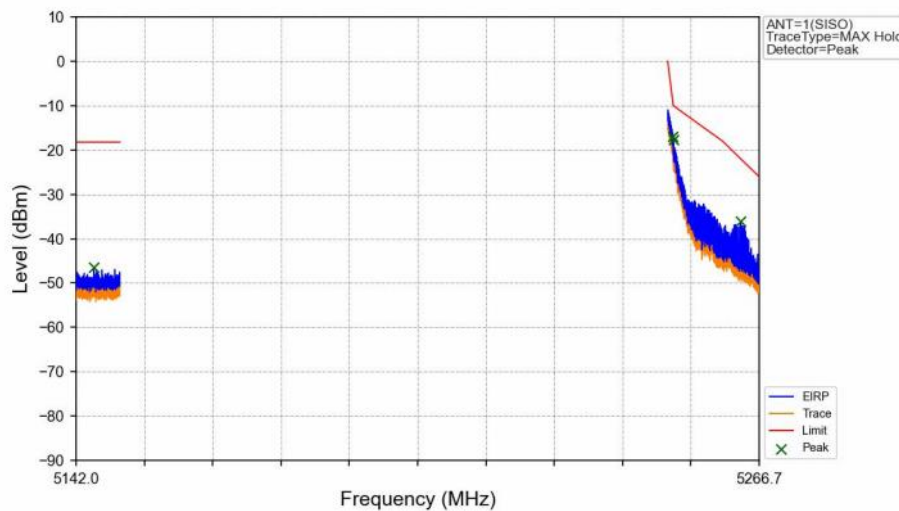


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5144.728	-44.35	/	2.22	-42.13	/	-18.24	Pass
5250	5251	1	1	5250.996	-44.37	/	2.22	-42.15	/	-9.96	Pass
5251	5260	1	1	5259.046	-44.48	/	2.22	-42.26	/	-17.15	Pass
5260	5266.7	1	1	5266.667	-45.17	/	2.22	-42.95	/	-26	Pass

802.11a_HCH_5240MHz_Ant1_NTNV

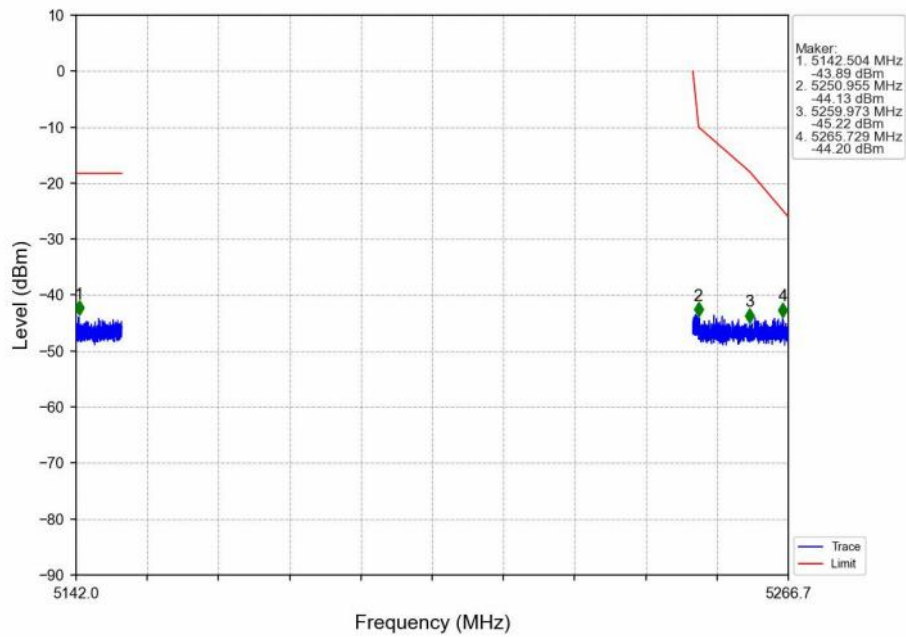


802.11a_HCH_5240MHz_Ant1_NTNV

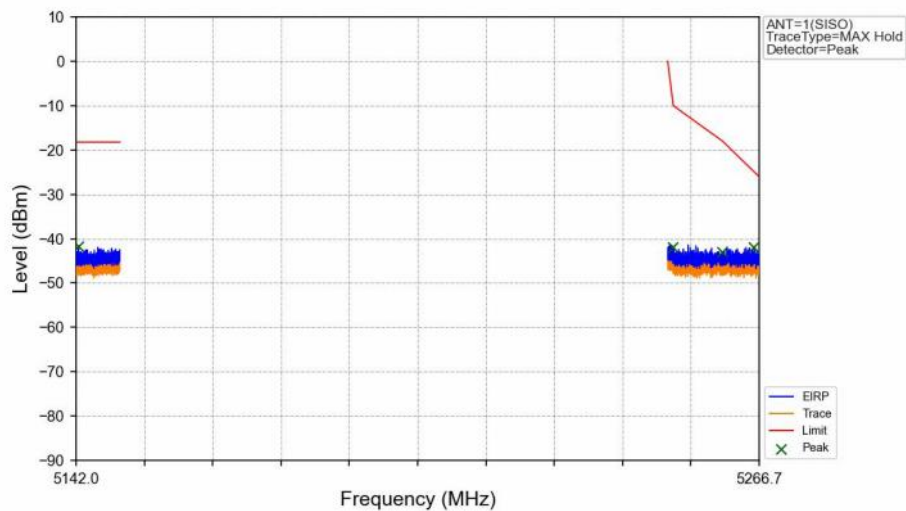


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5145.216	-48.72	/	2.22	-46.50	/	-18.24	Pass
5250	5251	1	1	5250.995	-19.15	/	2.22	-16.93	/	-9.95	Pass
5251	5260	1	1	5251.009	-19.95	/	2.22	-17.73	/	-10.01	Pass
5260	5266.7	1	1	5263.290	-38.26	/	2.22	-36.04	/	-21.95	Pass

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

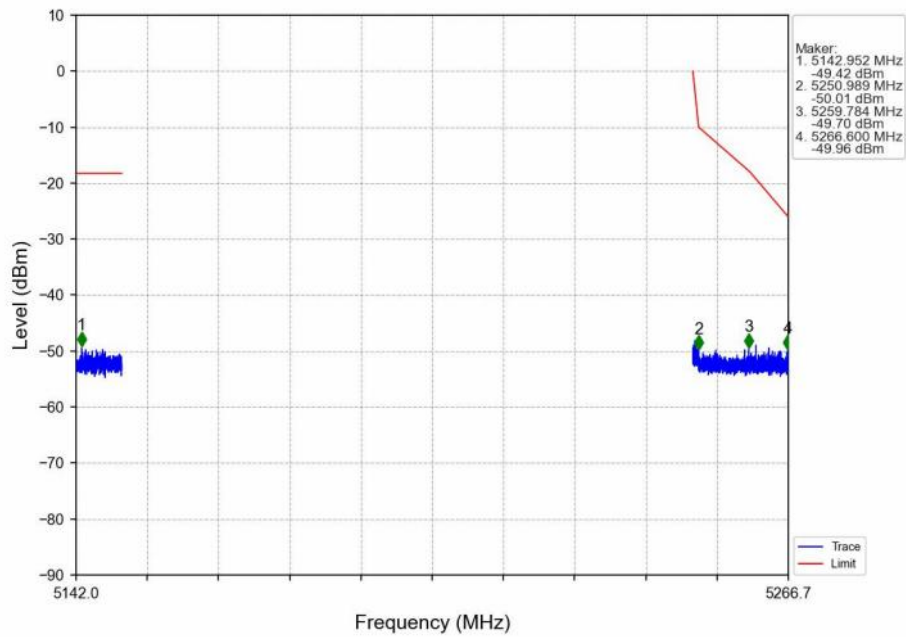


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

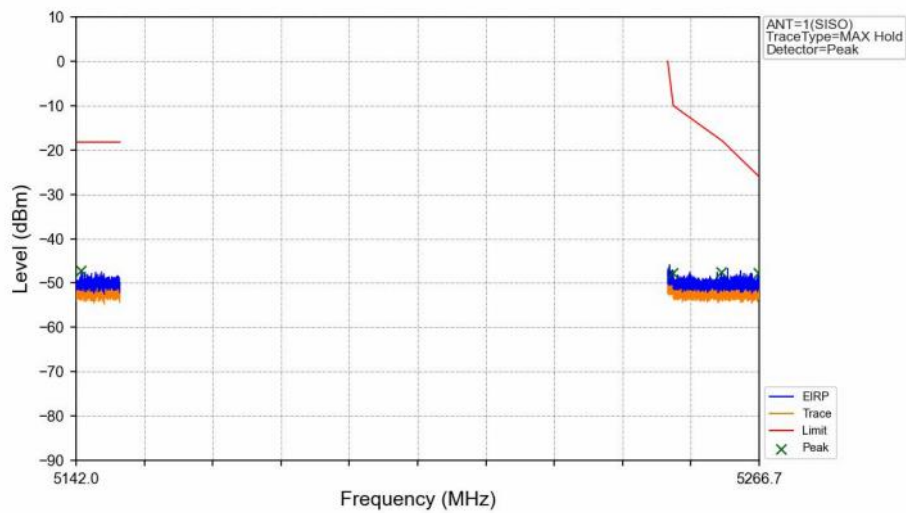


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5142.504	-43.89	/	2.22	-41.67	/	-18.24	Pass
5250	5251	1	1	5250.955	-44.13	/	2.22	-41.91	/	-9.55	Pass
5251	5260	1	1	5259.973	-45.22	/	2.22	-43.00	/	-17.98	Pass
5260	5266.7	1	1	5265.729	-44.20	/	2.22	-41.98	/	-24.87	Pass

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

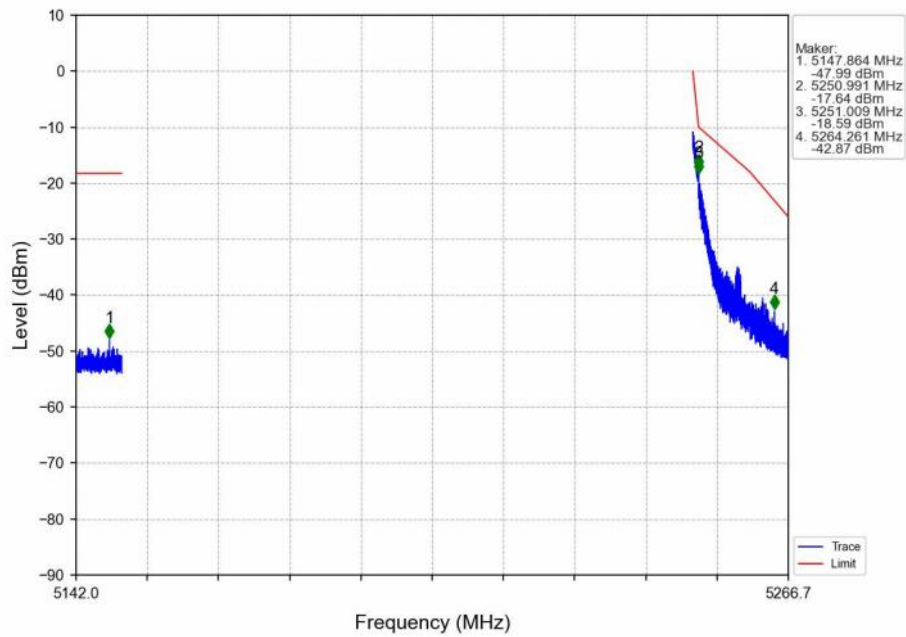


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

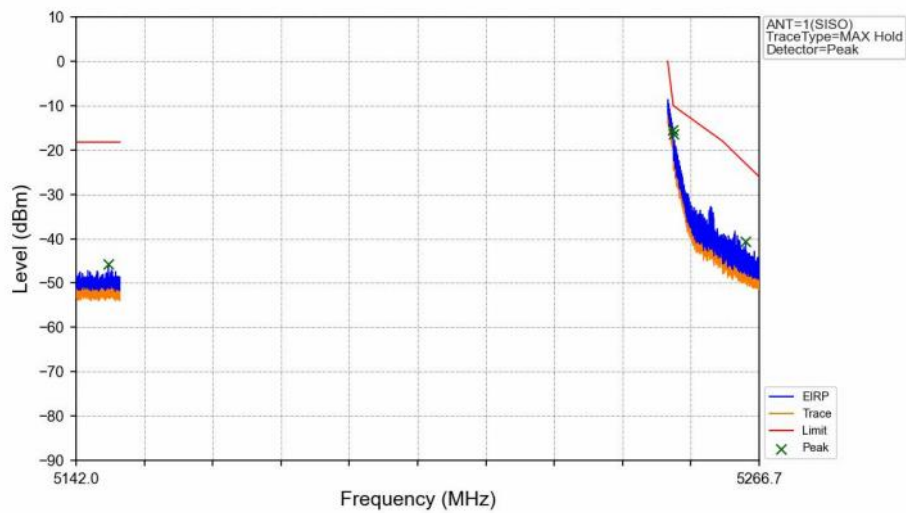


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5142.952	-49.42	/	2.22	-47.20	/	-18.24	Pass
5250	5251	1	1	5250.989	-50.01	/	2.22	-47.79	/	-9.89	Pass
5251	5260	1	1	5259.784	-49.70	/	2.22	-47.48	/	-17.81	Pass
5260	5266.7	1	1	5266.600	-49.96	/	2.22	-47.74	/	-25.92	Pass

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5147.864	-47.99	/	2.22	-45.77	/	-18.24	Pass
5250	5251	1	1	5250.991	-17.64	/	2.22	-15.42	/	-9.91	Pass
5251	5260	1	1	5251.009	-18.59	/	2.22	-16.37	/	-10.01	Pass
5260	5266.7	1	1	5264.261	-42.87	/	2.22	-40.65	/	-23.11	Pass

7. Transmission Burst Length

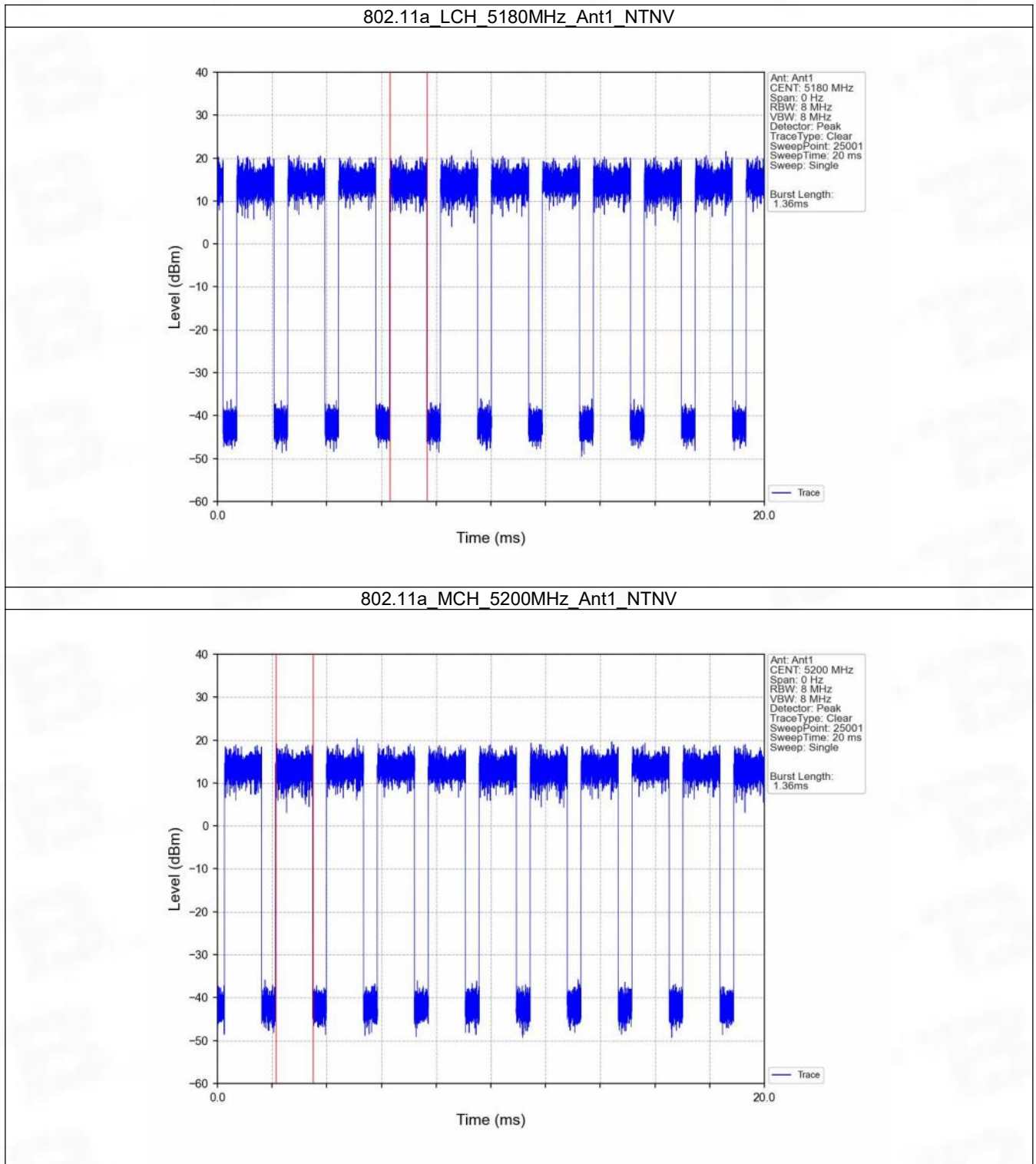
7.1 Test Result

7.1.1 Ant1_NTNV

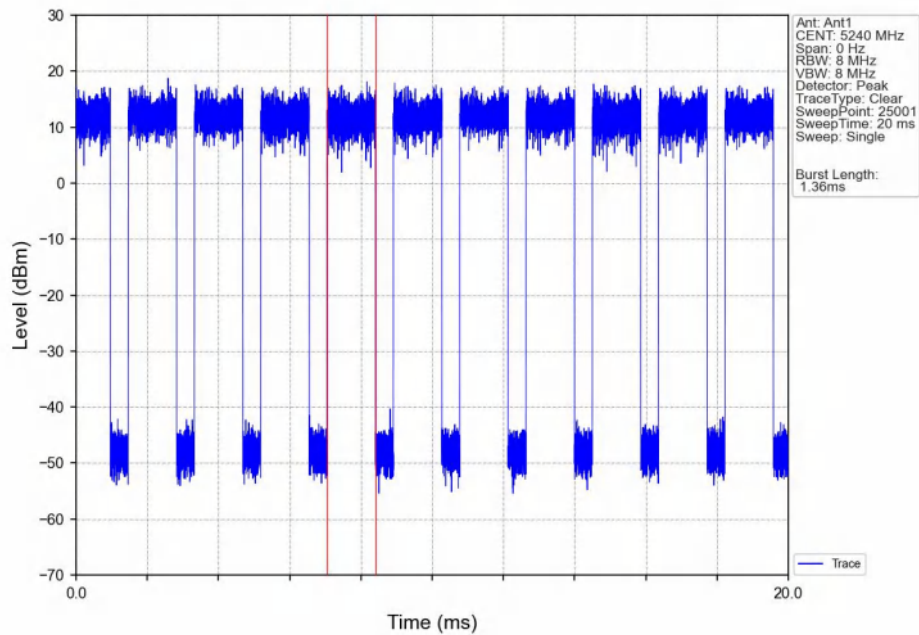
Ant1_NTNV					
Mode	TX Type	Frequency (MHz)	Burst Length (ms)		Verdict
			Result	Limit	
802.11a	SISO	5180	1.362	<=8	Pass
		5200	1.362	<=8	Pass
		5240	1.362	<=8	Pass
802.11n (HT20)	SISO	5180	1.274	<=8	Pass
		5200	1.274	<=8	Pass
		5240	1.274	<=8	Pass

7.2 Test Graph

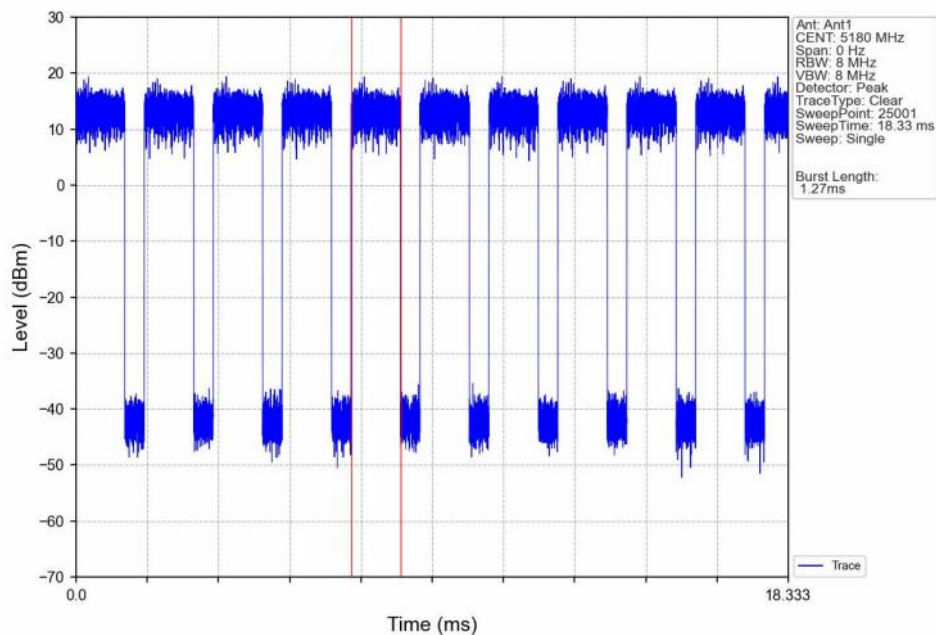
7.2.1 Ant1_NTNV



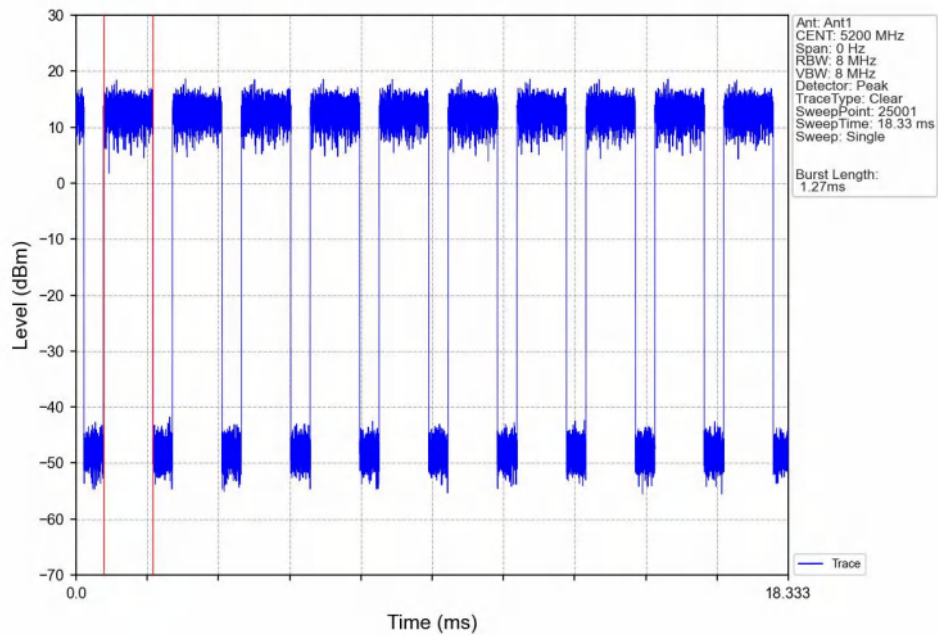
802.11a_HCH_5240MHz_Ant1_NTNV



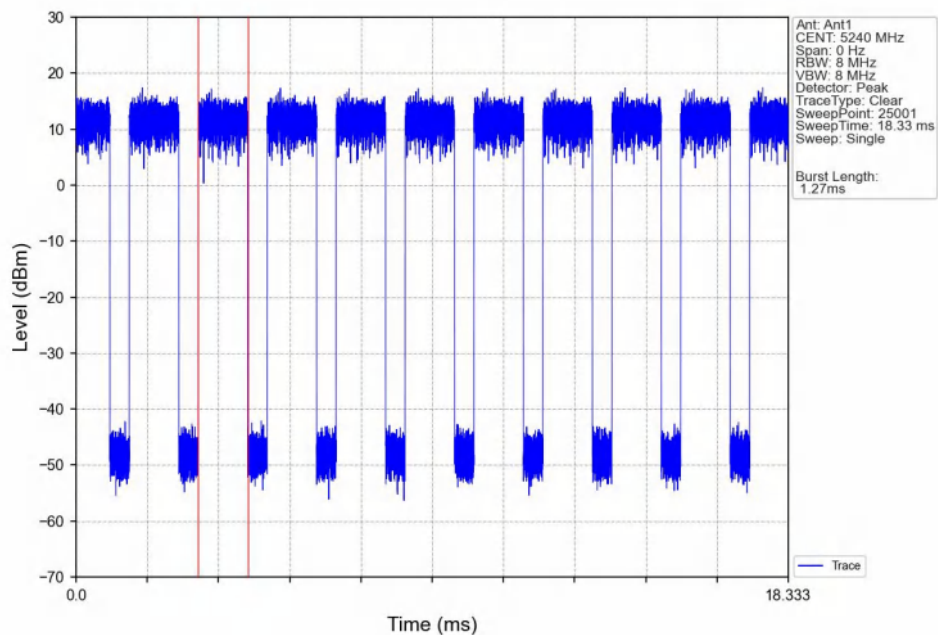
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



8. Spurious Emission Intensity

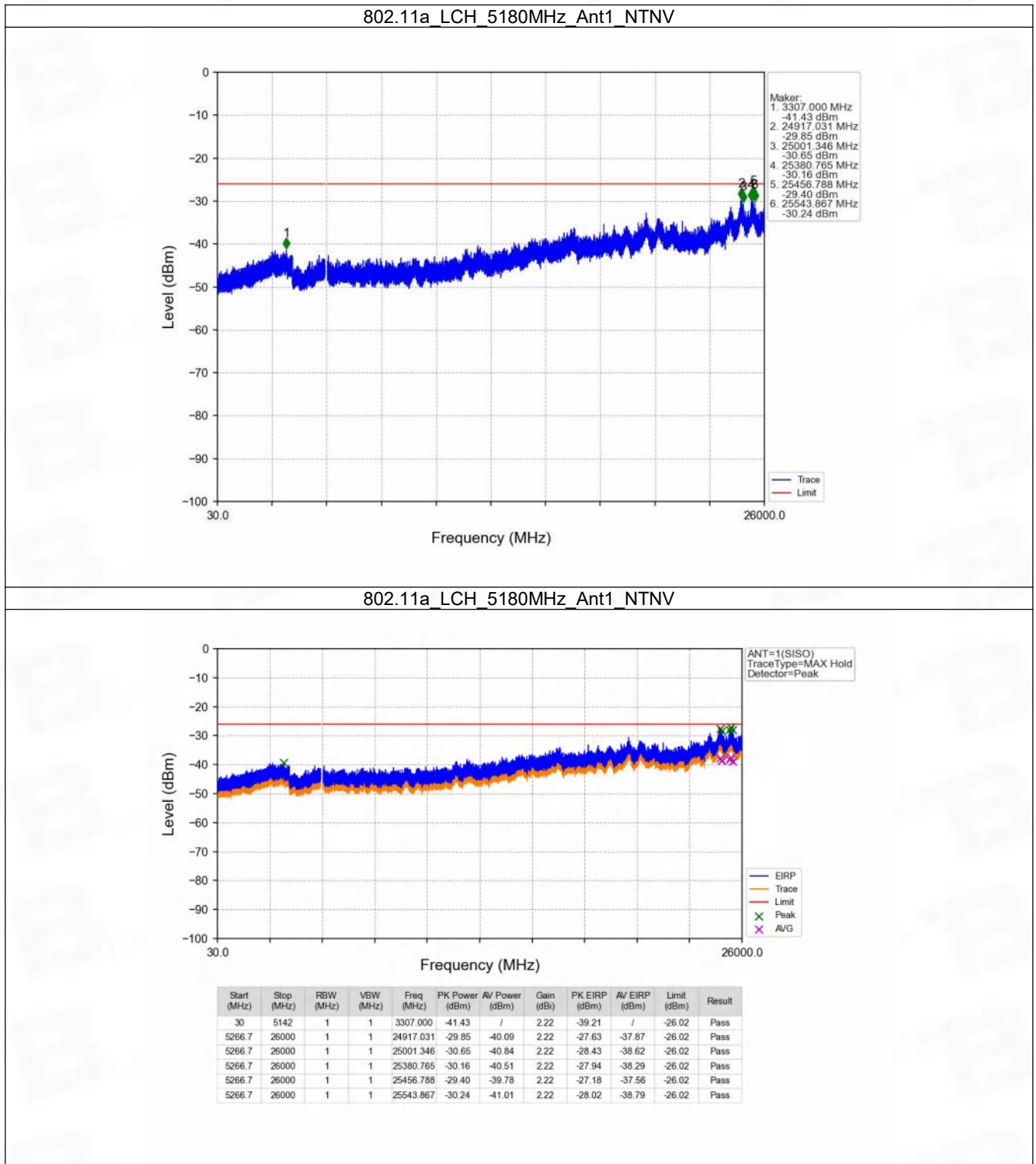
8.1 Test Result

8.1.1 TxSe_NTNV_SISO

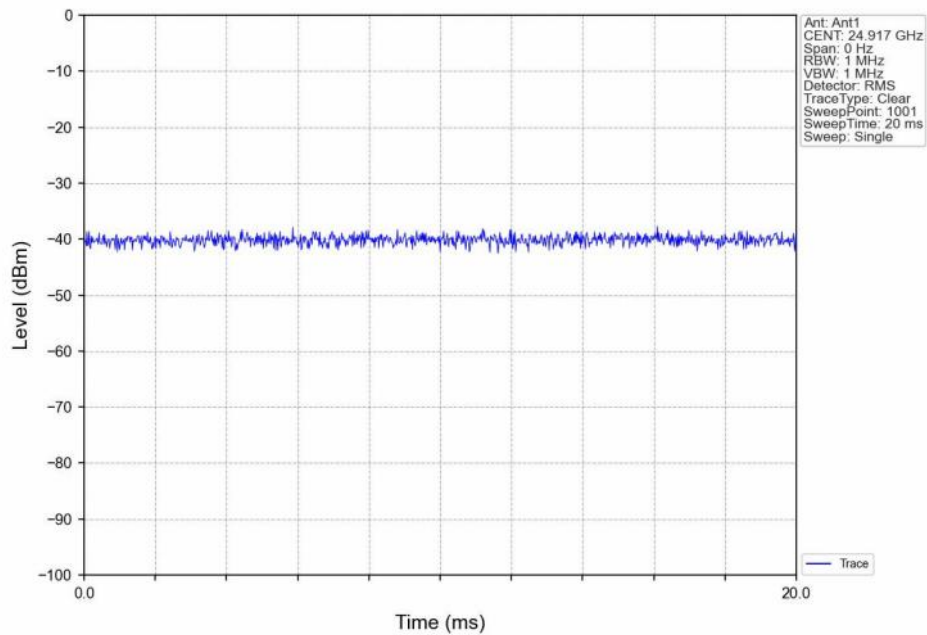
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK EIRP (dBm /MHz)	PK EIRP (uW /MHz)	AV EIRP (dBm /MHz)	AV EIRP (uW /MHz)		
802.11a	SISO	5180	1	30	5142	3307	-39.21	0.120	/	/	2.5	Pass
				5266.7	26000	24917.031	-27.63	1.726	-37.87	0.163	2.5	Pass
						25001.346	-28.43	1.435	-38.62	0.137	2.5	Pass
						25380.765	-27.94	1.607	-38.29	0.148	2.5	Pass
						25456.788	-27.18	1.914	-37.56	0.175	2.5	Pass
						25543.867	-28.02	1.578	-38.79	0.132	2.5	Pass
		5200	1	30	5142	3505	-38.59	0.138	/	/	2.5	Pass
				5266.7	26000	24862.433	-28.98	1.265	-38.49	0.142	2.5	Pass
						24950.204	-28.19	1.517	-37.79	0.166	2.5	Pass
						25384.221	-28.53	1.403	-38.27	0.149	2.5	Pass
						25467.154	-26.65	2.163	-37.62	0.173	2.5	Pass
						25533.501	-28.76	1.330	-38.60	0.138	2.5	Pass
5240	1	30	5142	3598	-42.58	0.055	/	/	2.5	Pass		
		5266.7	26000	24968.173	-33.44	0.453	/	/	2.5	Pass		
802.11n (HT20)	SISO	5180	1	30	5142	3286.5	-38.30	0.148	/	/	2.5	Pass
				5266.7	26000	24911.502	-28.12	1.542	-38.00	0.158	2.5	Pass
						25389.75	-28.76	1.330	-38.15	0.153	2.5	Pass
						25512.076	-28.37	1.455	-38.29	0.148	2.5	Pass
		5200	1	30	5142	3505	-44.48	0.036	/	/	2.5	Pass
				5266.7	26000	24879.02	-33.45	0.452	/	/	2.5	Pass
		5240	1	30	5142	2461	-45.19	0.030	/	/	2.5	Pass
				5266.7	26000	25419.468	-33.51	0.446	/	/	2.5	Pass

8.2 Test Graph

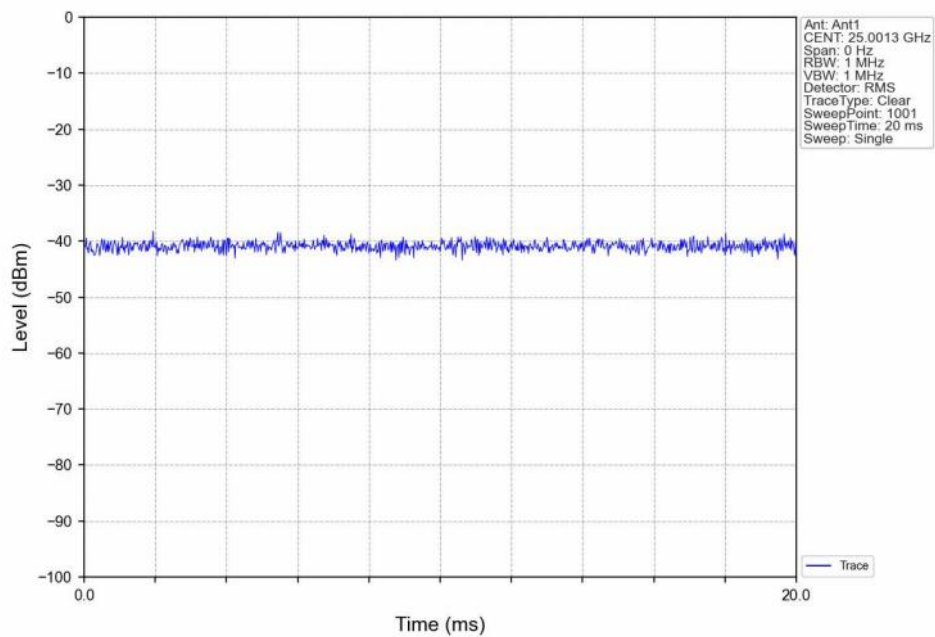
8.2.1 TxSe_NTNV_SISO



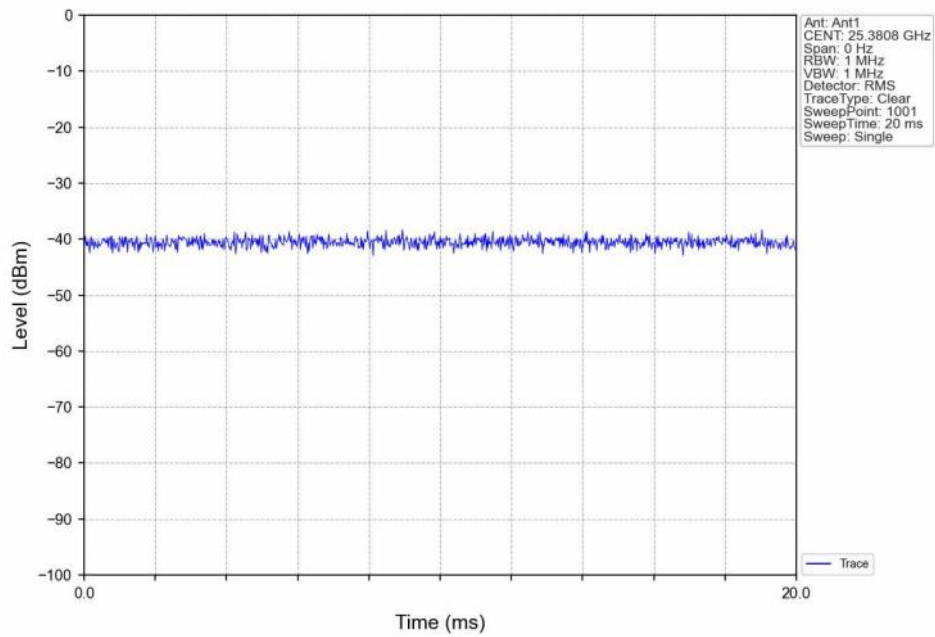
802.11a_LCH_5180MHz_Ant1_NTNV



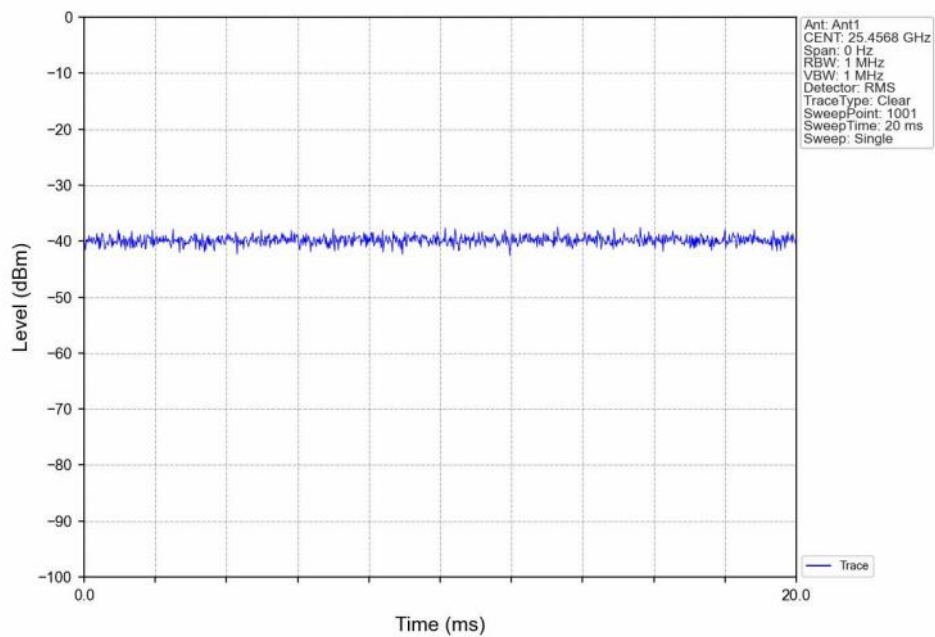
802.11a_LCH_5180MHz_Ant1_NTNV



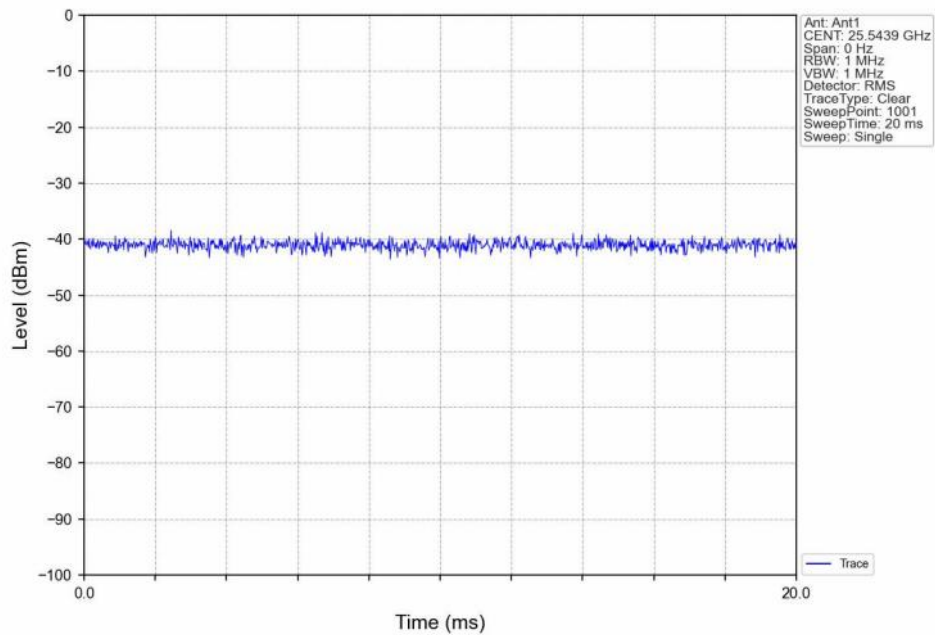
802.11a_LCH_5180MHz_Ant1_NTNV



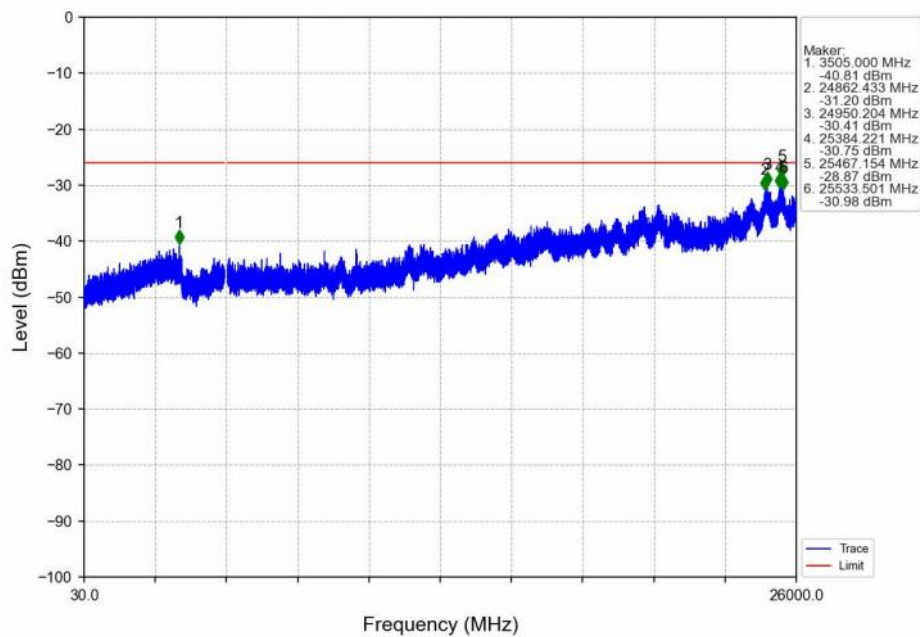
802.11a_LCH_5180MHz_Ant1_NTNV



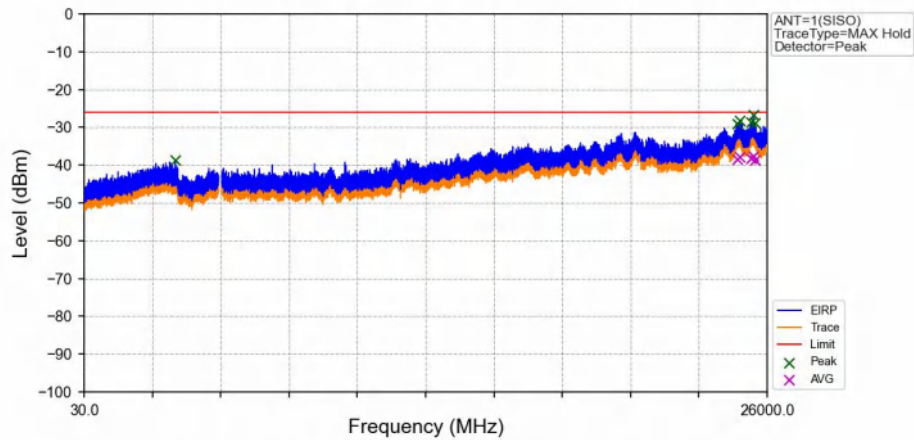
802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV

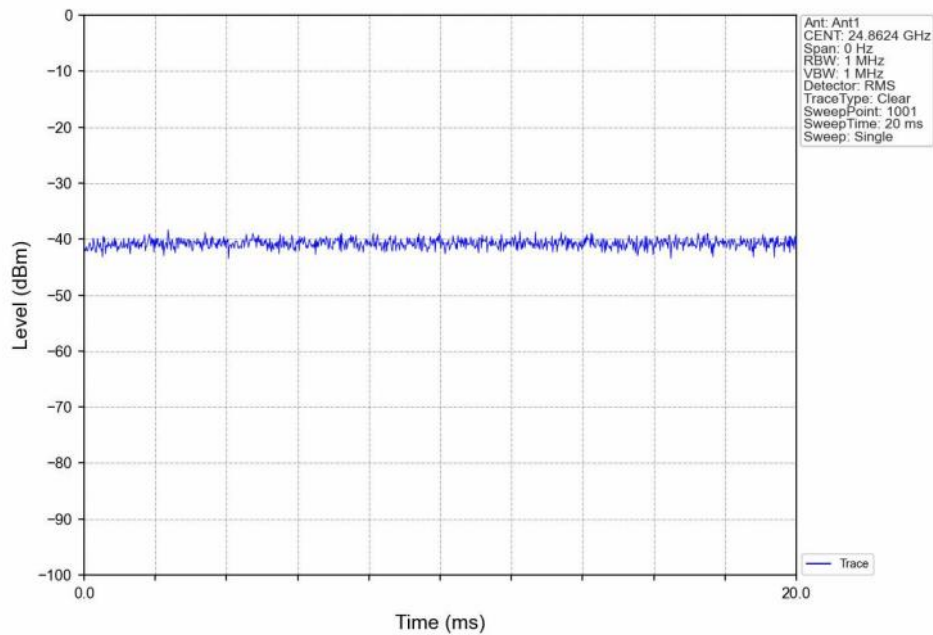


802.11a_MCH_5200MHz_Ant1_NTNV

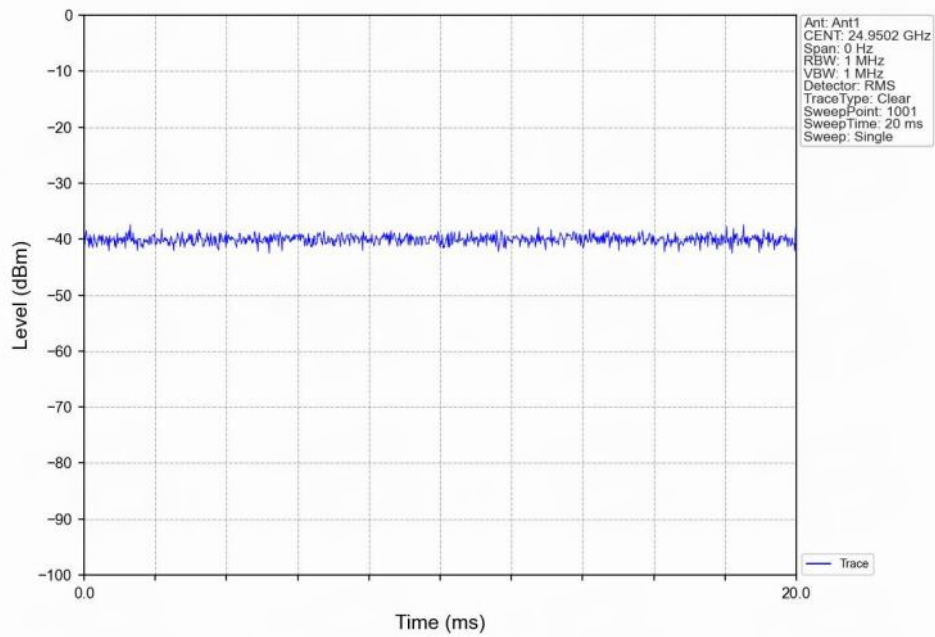


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	A/V Power (dBm)	Gain (dB)	PK EIRP (dBm)	A/V EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3505.000	-40.81	/	2.22	-38.59	/	-26.02	Pass
5266.7	26000	1	1	24862.433	-31.20	-40.71	2.22	-28.98	-38.49	-26.02	Pass
5266.7	26000	1	1	24950.204	-30.41	-40.01	2.22	-28.19	-37.79	-26.02	Pass
5266.7	26000	1	1	25384.221	-30.75	-40.49	2.22	-28.53	-38.27	-26.02	Pass
5266.7	26000	1	1	25467.154	-28.87	-39.84	2.22	-26.65	-37.62	-26.02	Pass
5266.7	26000	1	1	25533.501	-30.98	-40.82	2.22	-28.76	-38.60	-26.02	Pass

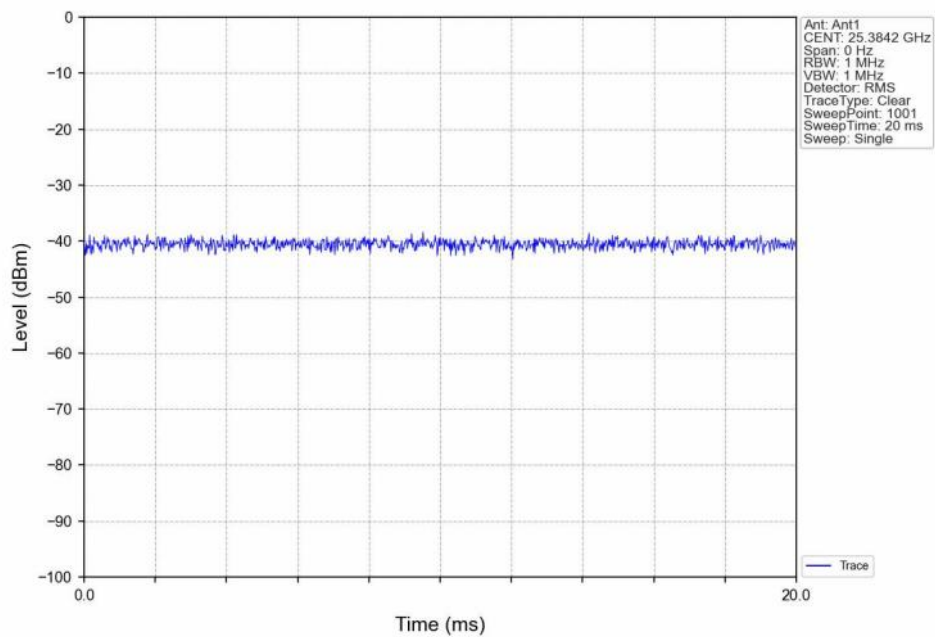
802.11a_MCH_5200MHz_Ant1_NTNV



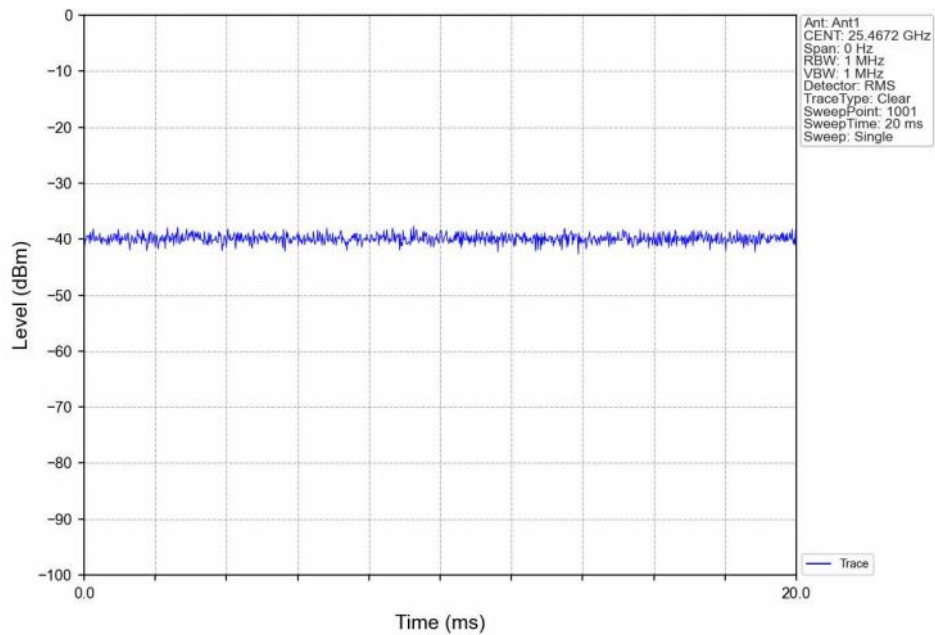
802.11a_MCH_5200MHz_Ant1_NTNV



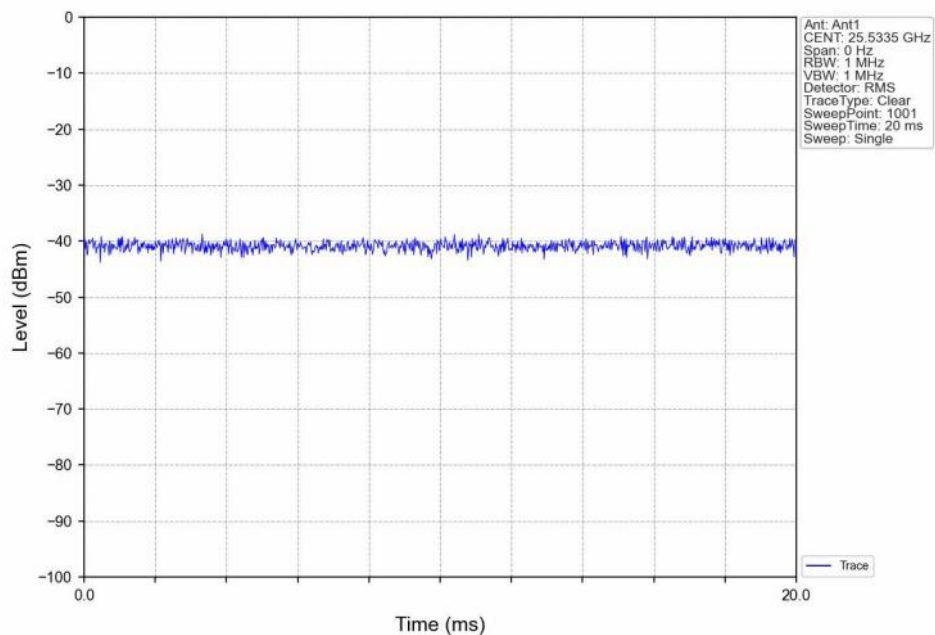
802.11a_MCH_5200MHz_Ant1_NTNV



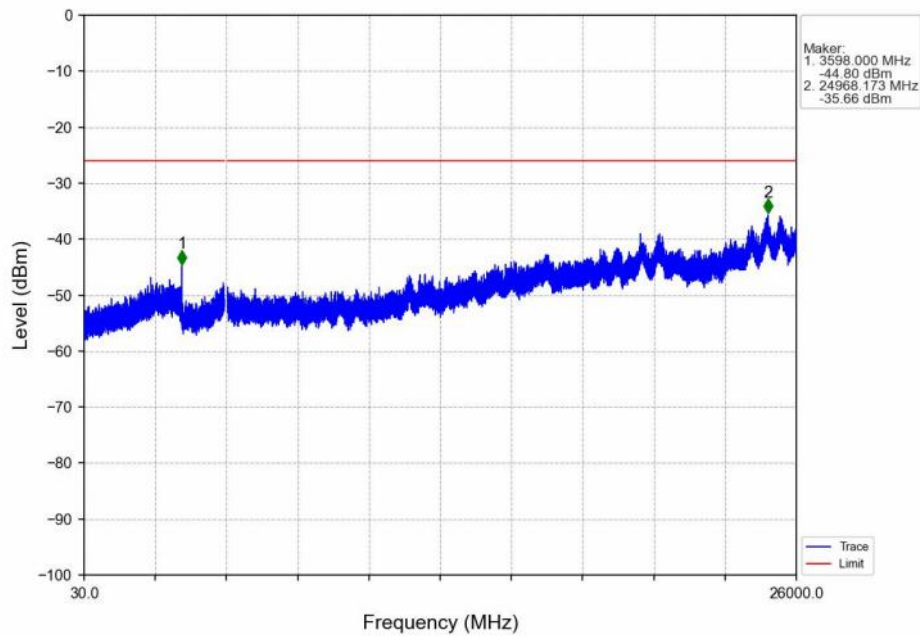
802.11a_MCH_5200MHz_Ant1_NTNV



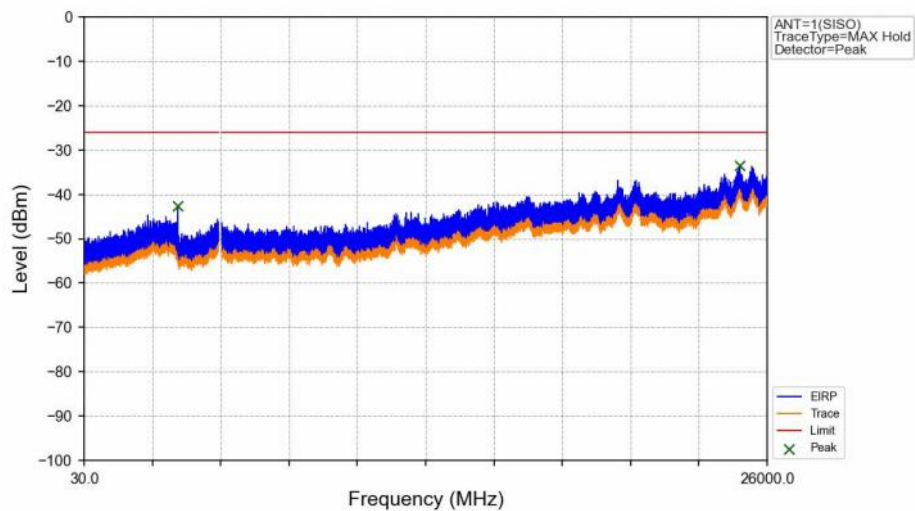
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV

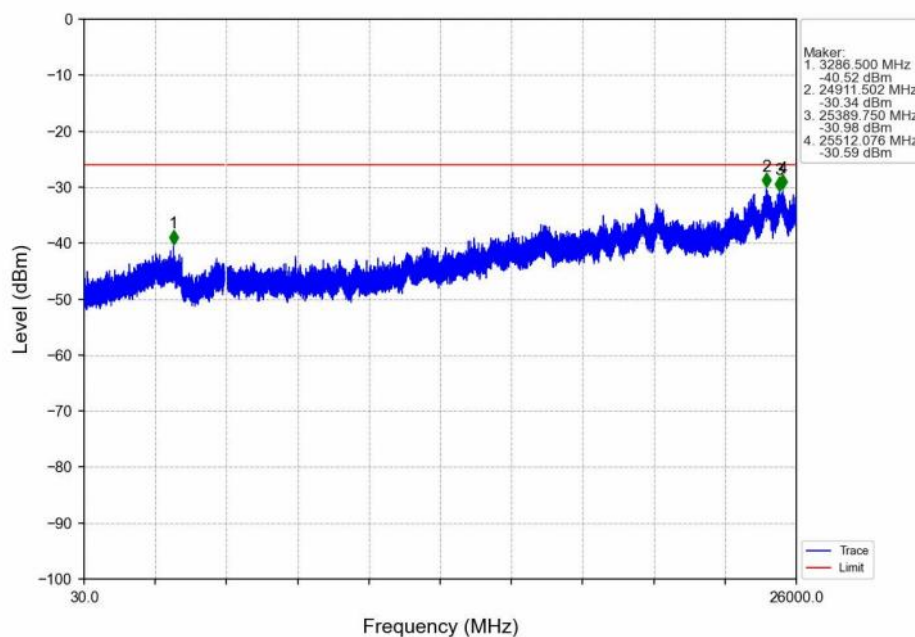


802.11a_HCH_5240MHz_Ant1_NTNV

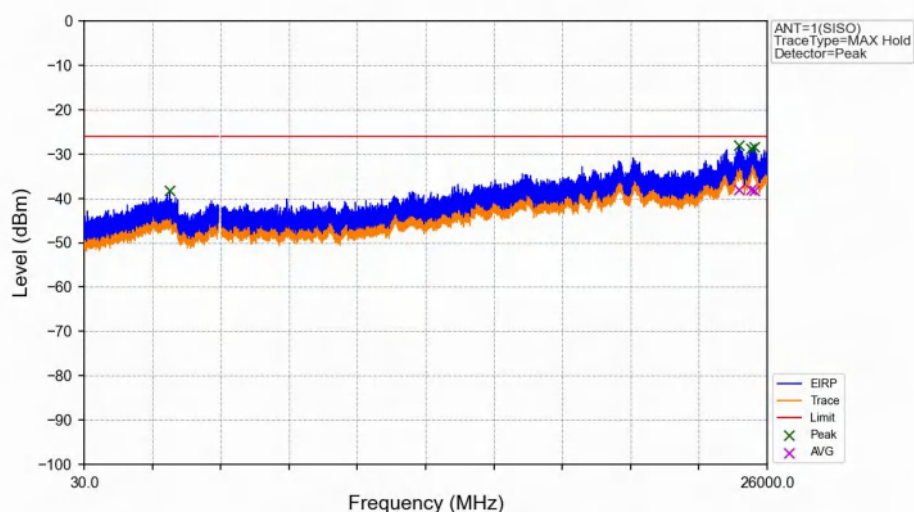


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3598.000	-44.80	/	2.22	-42.58	/	-26.02	Pass
5266.7	26000	1	1	24968.173	-35.66	/	2.22	-33.44	/	-26.02	Pass

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

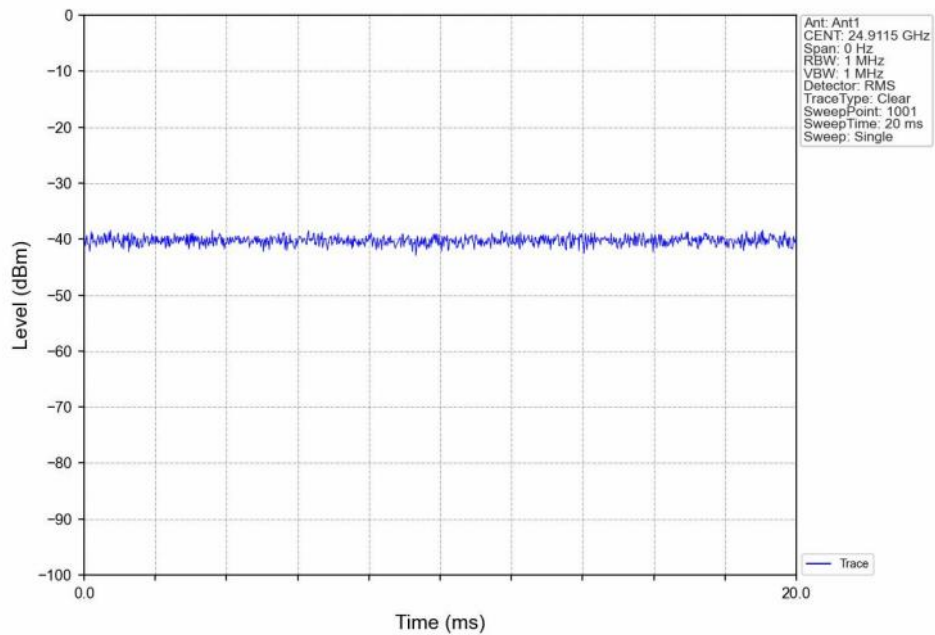


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

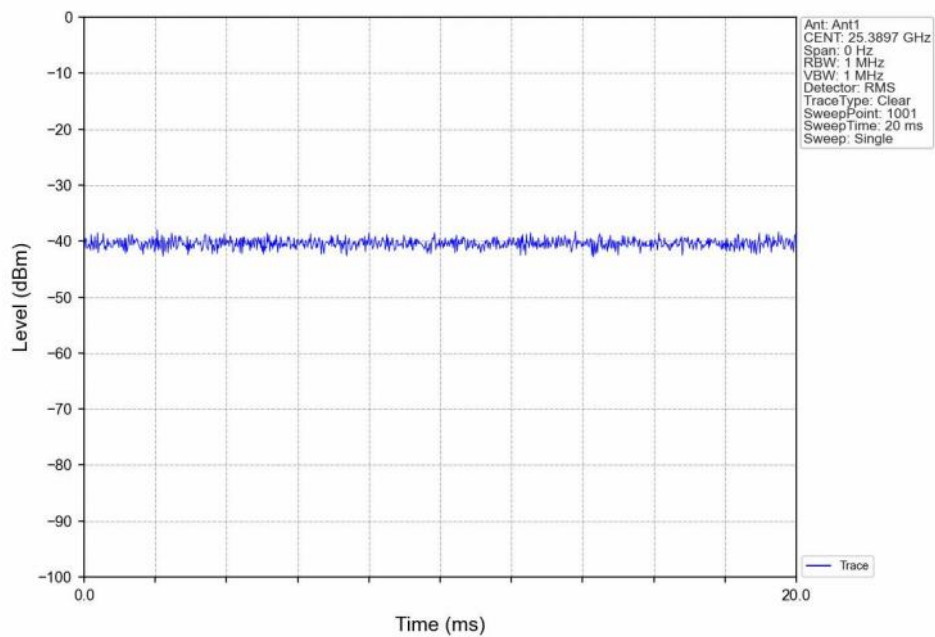


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3286.500	-40.52	/	2.22	-38.30	/	-26.02	Pass
5266.7	26000	1	1	24911.502	-30.34	-40.22	2.22	-28.12	-38.00	-26.02	Pass
5266.7	26000	1	1	25389.750	-30.98	-40.37	2.22	-28.76	-38.15	-26.02	Pass
5266.7	26000	1	1	25512.076	-30.59	-40.51	2.22	-28.37	-38.29	-26.02	Pass

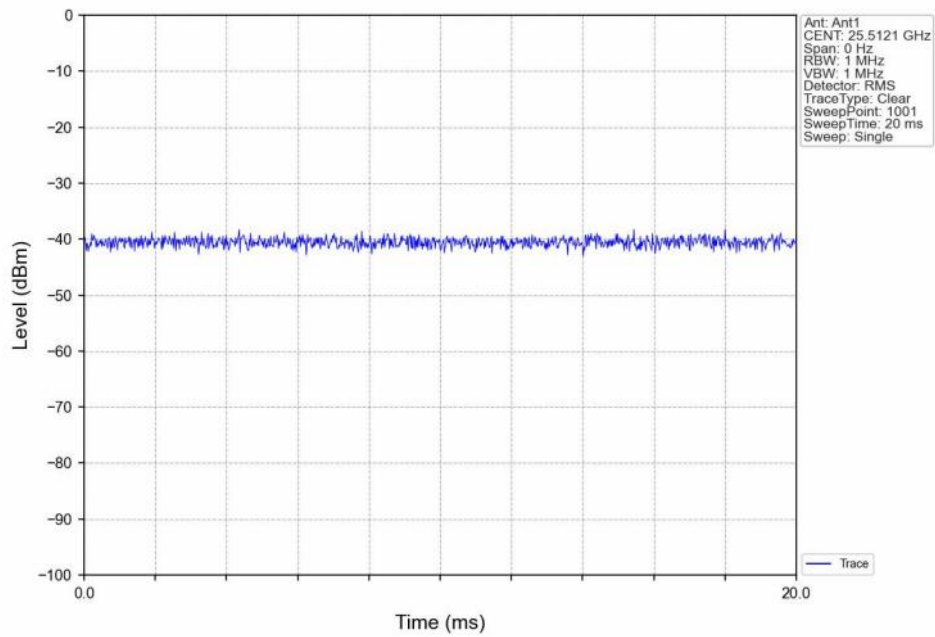
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



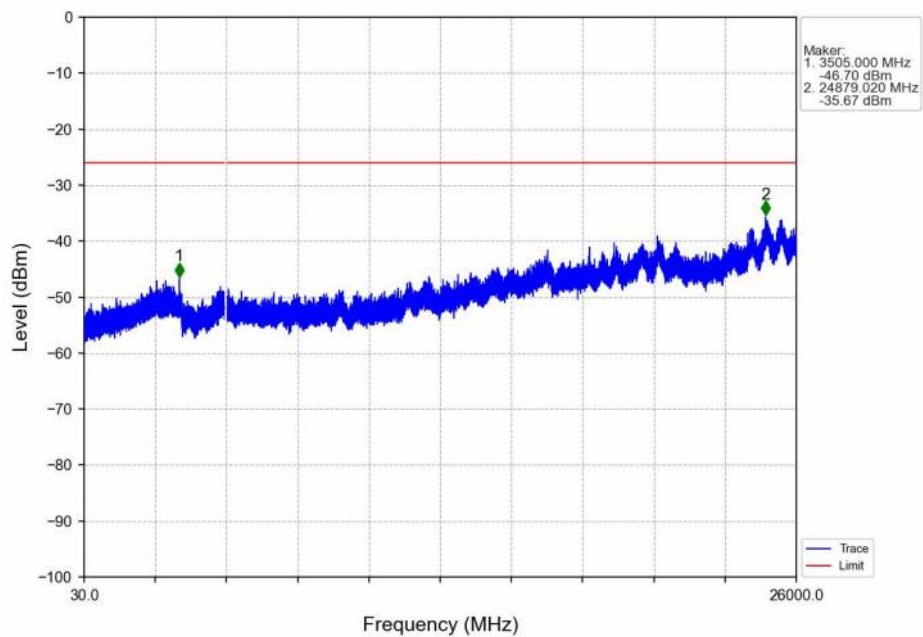
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



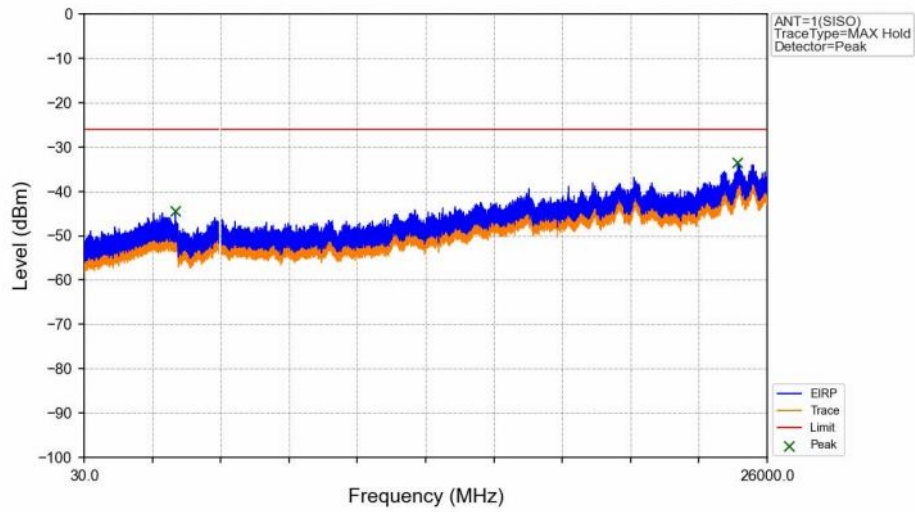
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

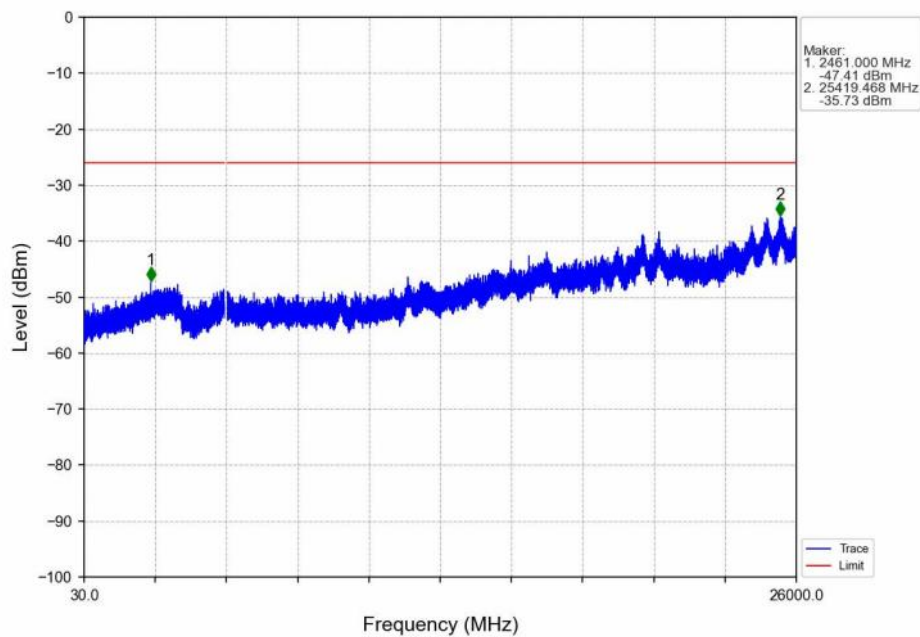


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

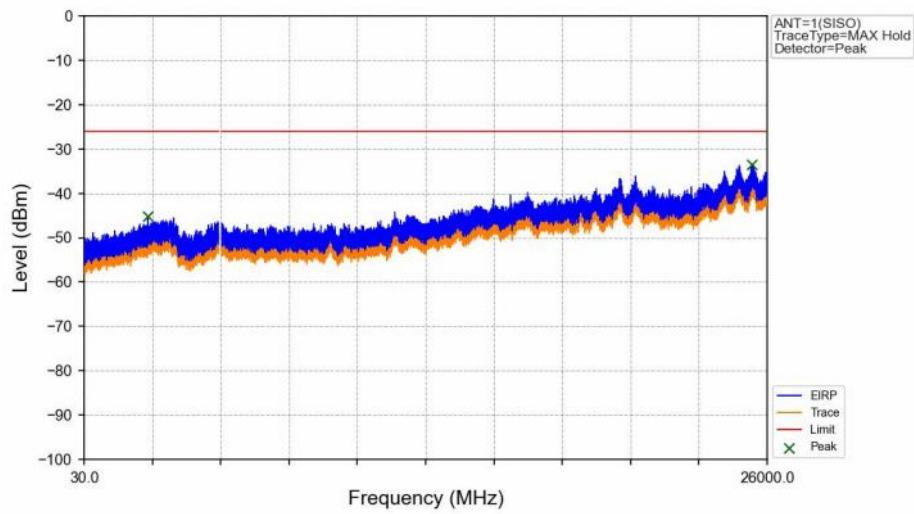


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	A/V Power (dBm)	Gain (dB)	PK EIRP (dBm)	A/V EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3505.000	-46.70	/	2.22	-44.48	/	-26.02	Pass
5266.7	26000	1	1	24879.020	-35.67	/	2.22	-33.45	/	-26.02	Pass

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	2461.000	-47.41	/	2.22	-45.19	/	-26.02	Pass
5266.7	26000	1	1	25419.468	-35.73	/	2.22	-33.51	/	-26.02	Pass

9. Secondary Radiated Emission

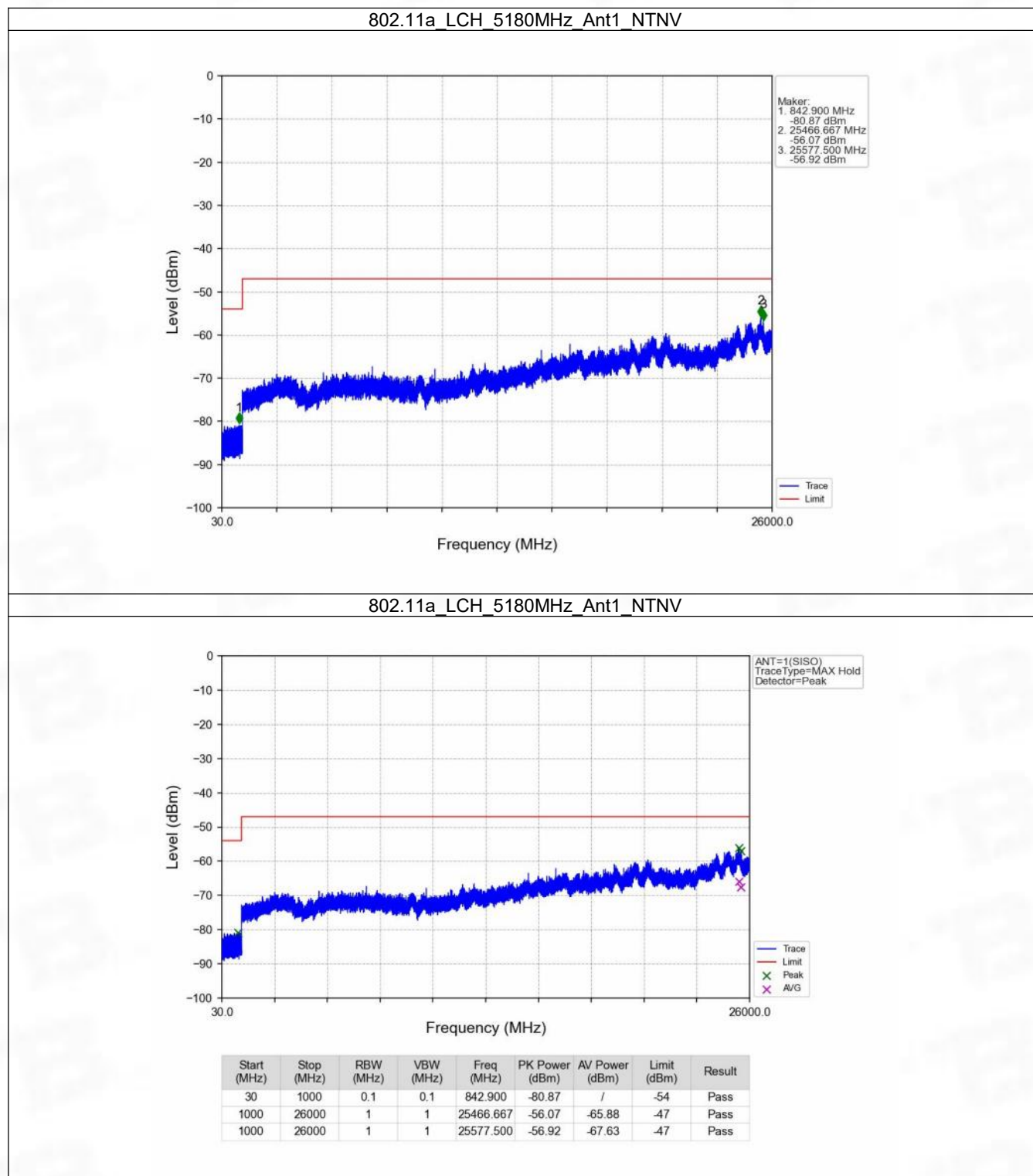
9.1 Test Result

9.1.1 RxSe_NTNV_SISO

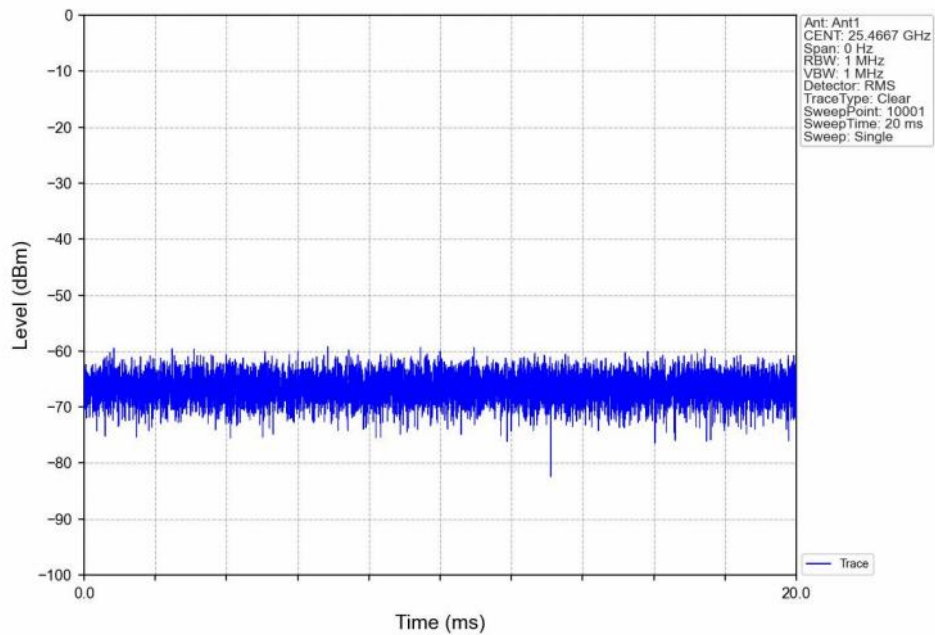
NTNV														
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict		
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)				
802.11a	SISO	5180	1	30	1000	842.9	-80.87	0.008	/	/	4	Pass		
				1000	26000	25466.667	-56.07	2.472	-65.88	0.258	20	Pass		
						25577.5	-56.92	2.032	-67.63	0.173	20	Pass		
		5200	1	30	1000	904	-80.25	0.009	/	/	4	Pass		
				1000	26000	24903.333	-56.98	2.004	-66.19	0.240	20	Pass		
						25404.167	-57.00	1.995	-66.14	0.243	20	Pass		
		5240	1	1000	26000	25491.667	-55.69	2.698	-66.21	0.239	20	Pass		
						30	1000	891.5	-80.23	0.009	/	/	4	Pass
				1000	26000	24924.167	-56.11	2.449	-66.01	0.251	20	Pass		
		25441.667	-55.75			2.661	-65.89	0.258	20	Pass				
		802.11n (HT20)	SISO	5180	1	30	1000	806.3	-80.55	0.009	/	/	4	Pass
						1000	26000	24907.5	-55.75	2.661	-66.16	0.242	20	Pass
25405.833	-56.03							2.495	-66.08	0.247	20	Pass		
25511.667	-56.34							2.323	-66.55	0.221	20	Pass		
5200	1			30	1000	904.05	-79.70	0.011	/	/	4	Pass		
				1000	26000	24854.167	-56.86	2.061	-66.83	0.207	20	Pass		
						24935	-56.58	2.198	-65.82	0.262	20	Pass		
						25397.5	-57.00	1.995	-66.23	0.238	20	Pass		
5240	1			1000	26000	25478.333	-56.25	2.371	-66.03	0.249	20	Pass		
						30	1000	896.15	-80.23	0.009	/	/	4	Pass
						24975	-56.07	2.472	-66.42	0.228	20	Pass		
				25395	-56.27	2.360	-66.31	0.234	20	Pass				
						25504.167	-56.91	2.037	-66.43	0.228	20	Pass		

9.2 Test Graph

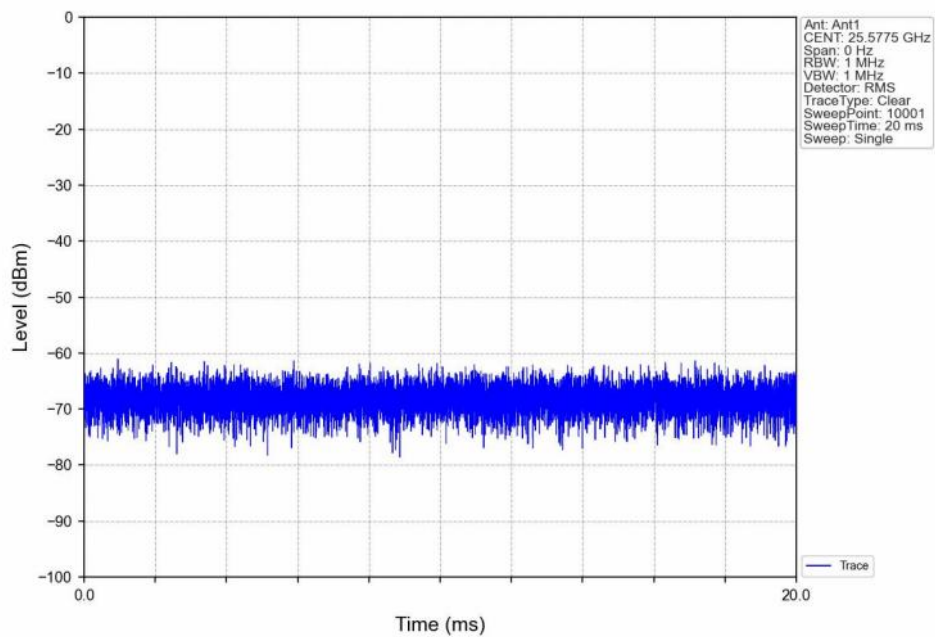
9.2.1 RxSe_NTNV_SISO



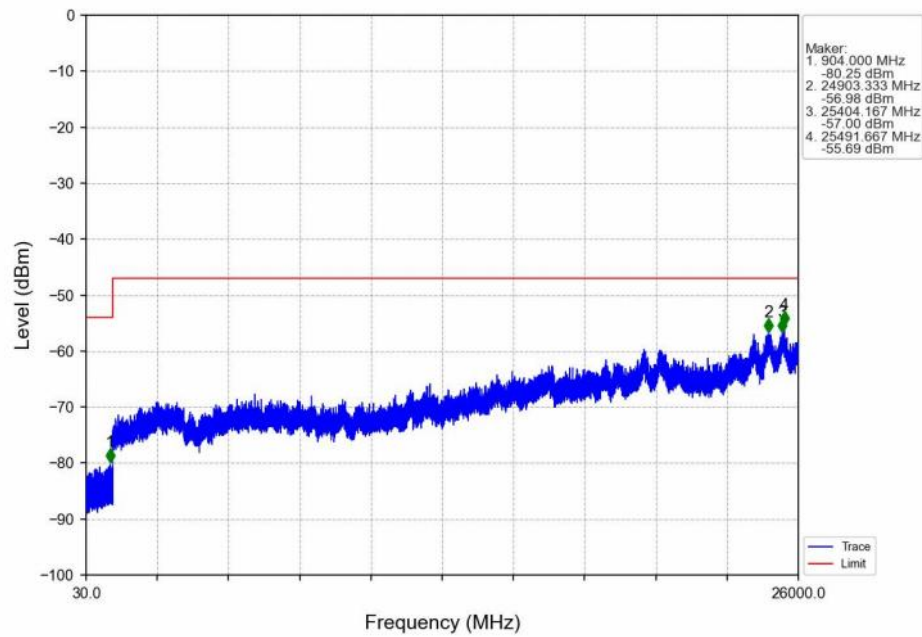
802.11a_LCH_5180MHz_Ant1_NTNV



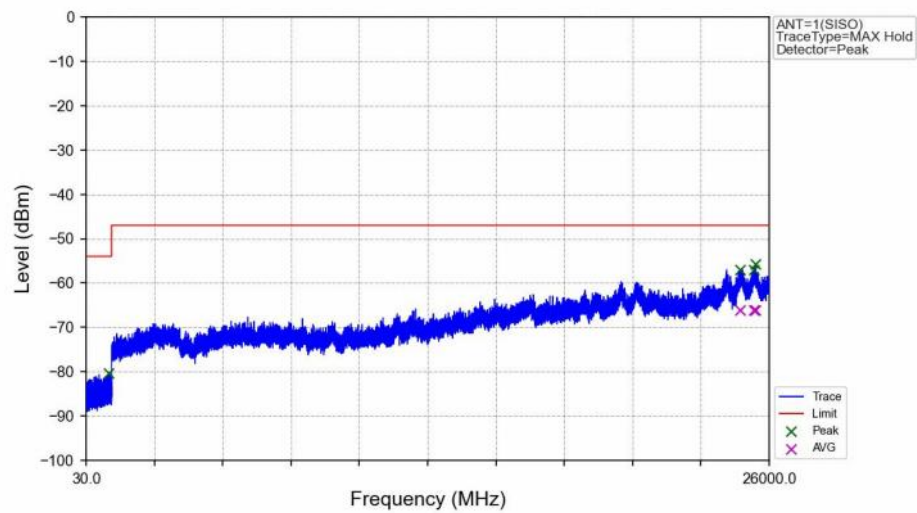
802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV

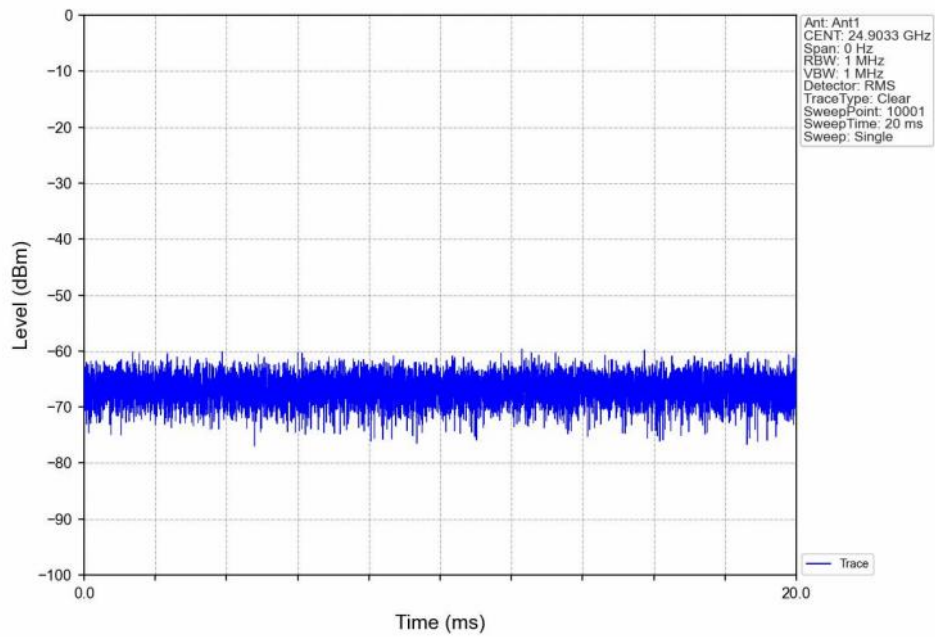


802.11a_MCH_5200MHz_Ant1_NTNV

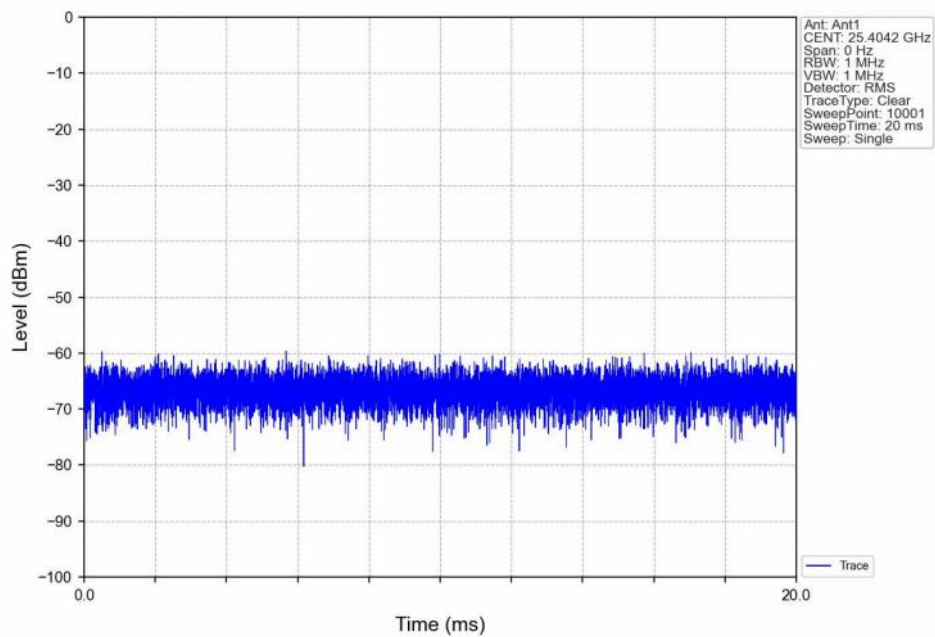


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	904.000	-80.25	/	-54	Pass
1000	26000	1	1	24903.333	-56.98	-66.19	-47	Pass
1000	26000	1	1	25404.167	-57.00	-66.14	-47	Pass
1000	26000	1	1	25491.667	-55.69	-66.21	-47	Pass

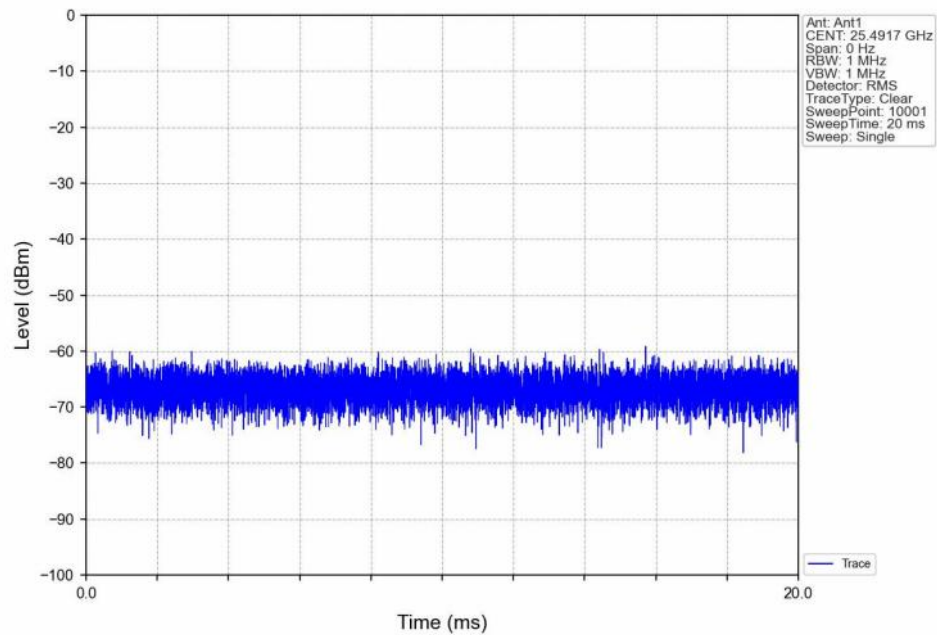
802.11a_MCH_5200MHz_Ant1_NTNV



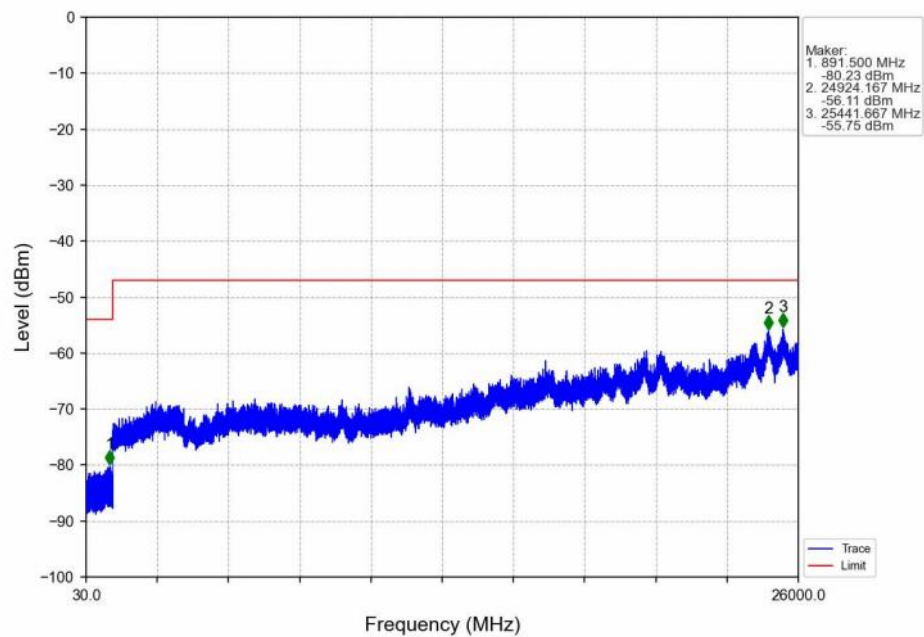
802.11a_MCH_5200MHz_Ant1_NTNV



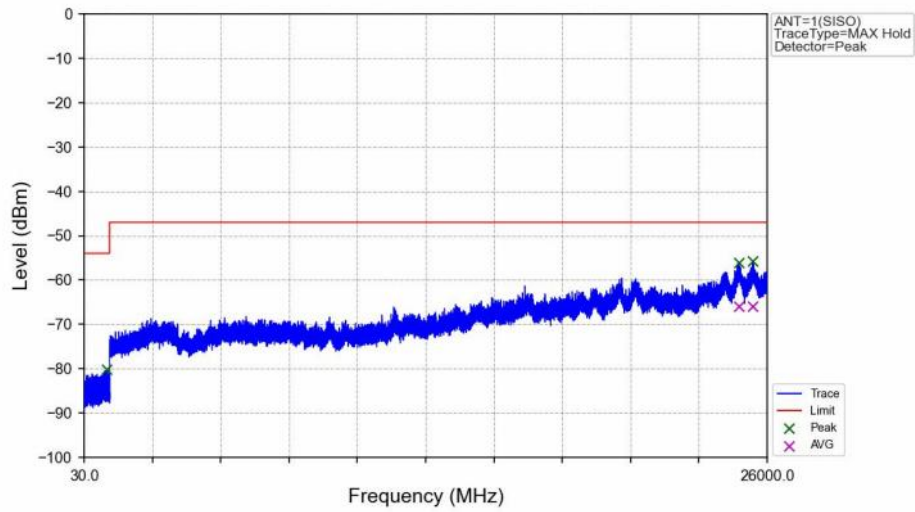
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV

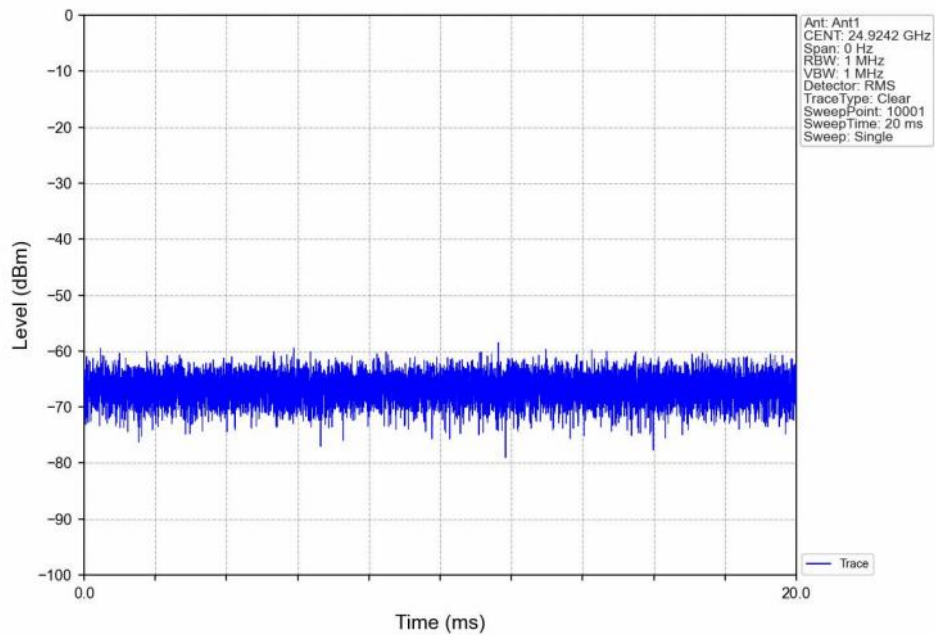


802.11a_HCH_5240MHz_Ant1_NTNV

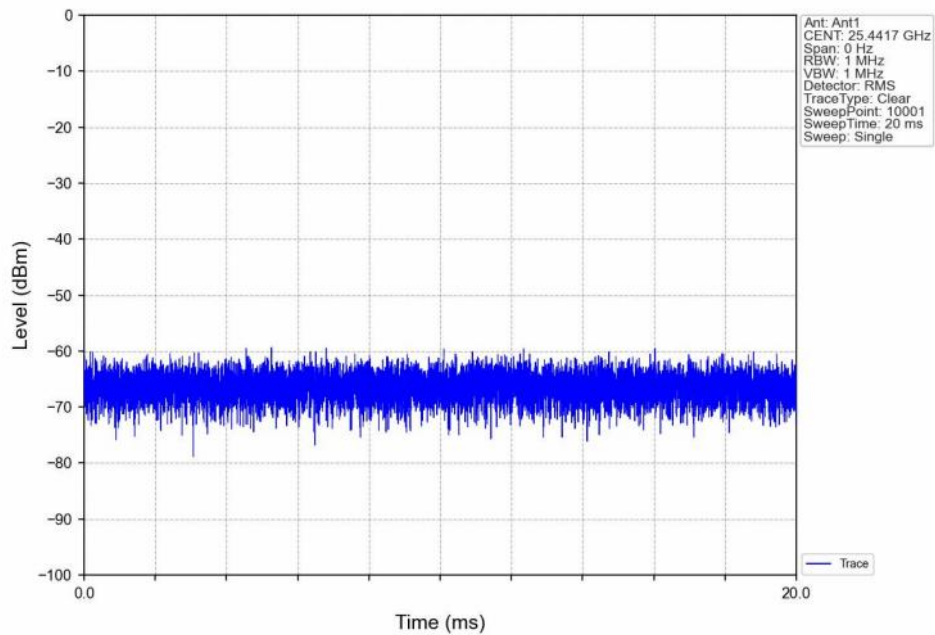


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	891.500	-80.23	/	-54	Pass
1000	26000	1	1	24924.167	-56.11	-66.01	-47	Pass
1000	26000	1	1	25441.667	-55.75	-65.89	-47	Pass

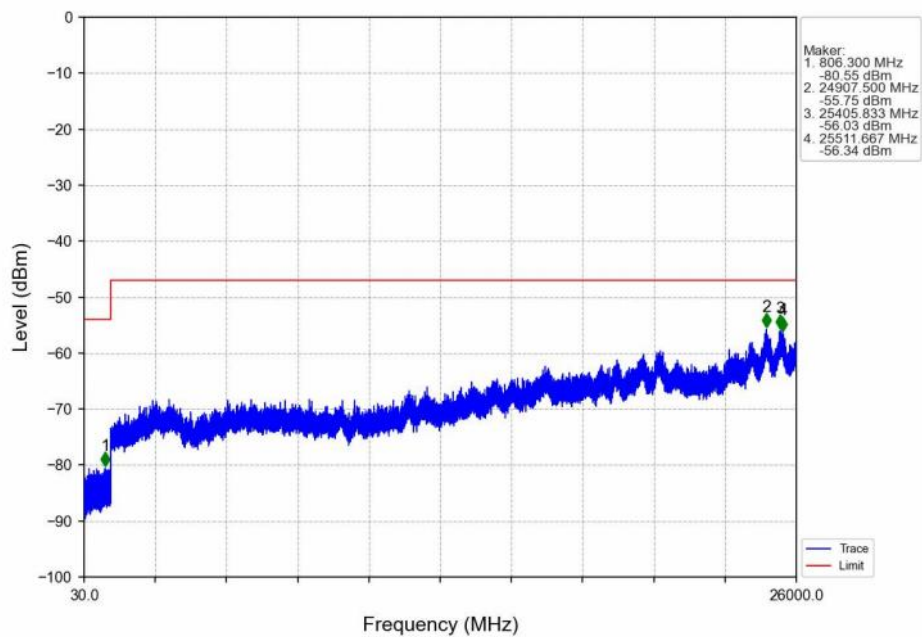
802.11a_HCH_5240MHz_Ant1_NTNV



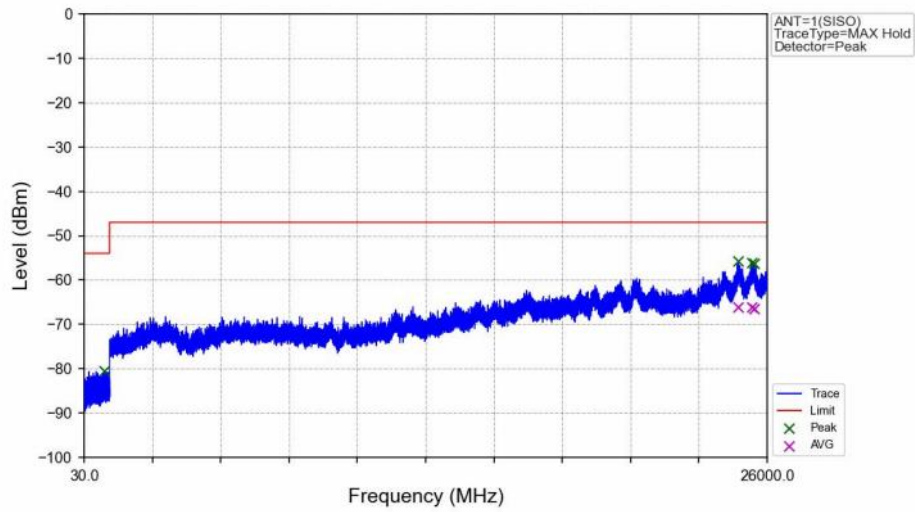
802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

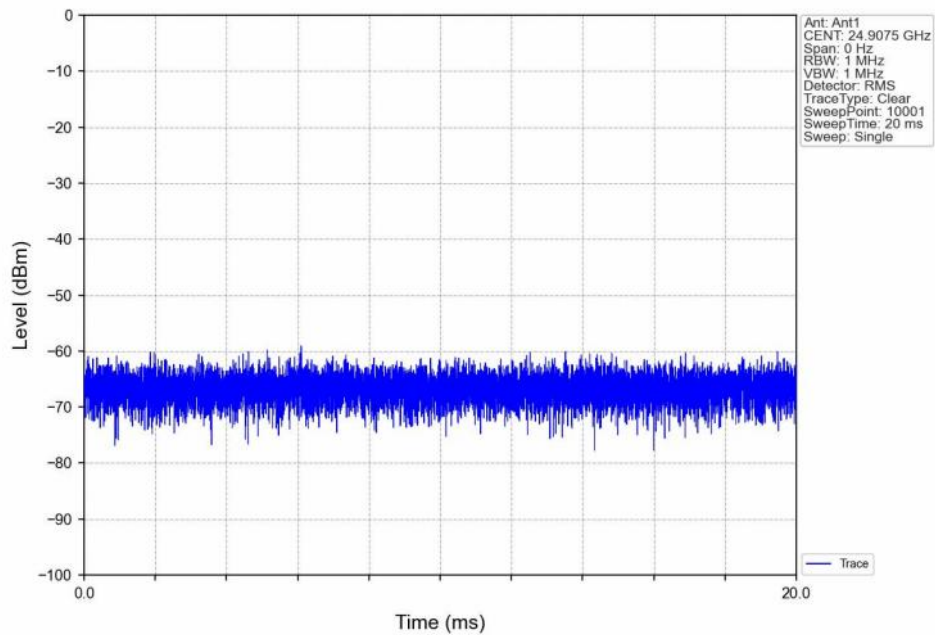


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

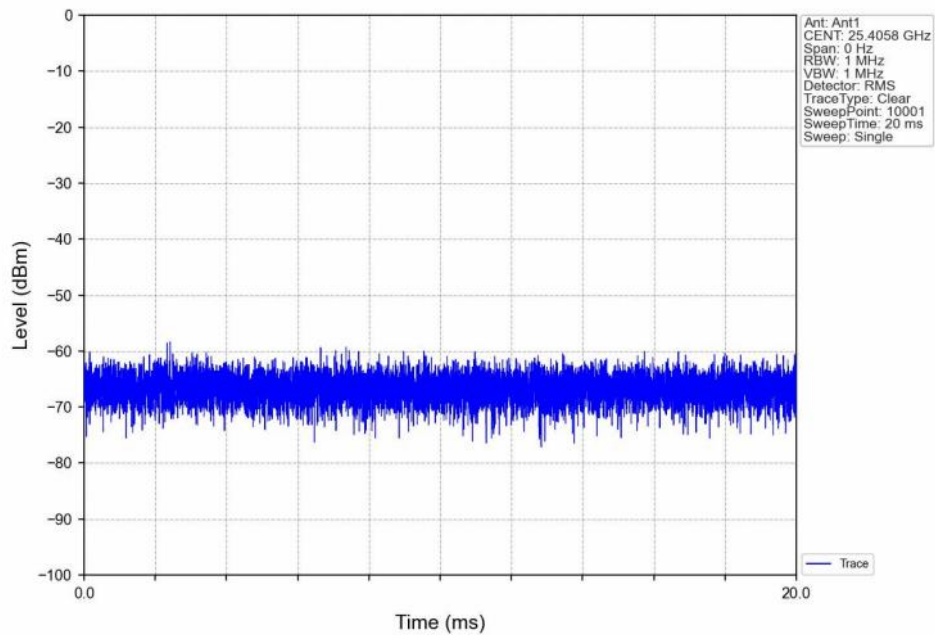


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	806.300	-80.55	/	-54	Pass
1000	26000	1	1	24907.500	-55.75	-66.16	-47	Pass
1000	26000	1	1	25405.833	-56.03	-66.08	-47	Pass
1000	26000	1	1	25511.667	-56.34	-66.55	-47	Pass

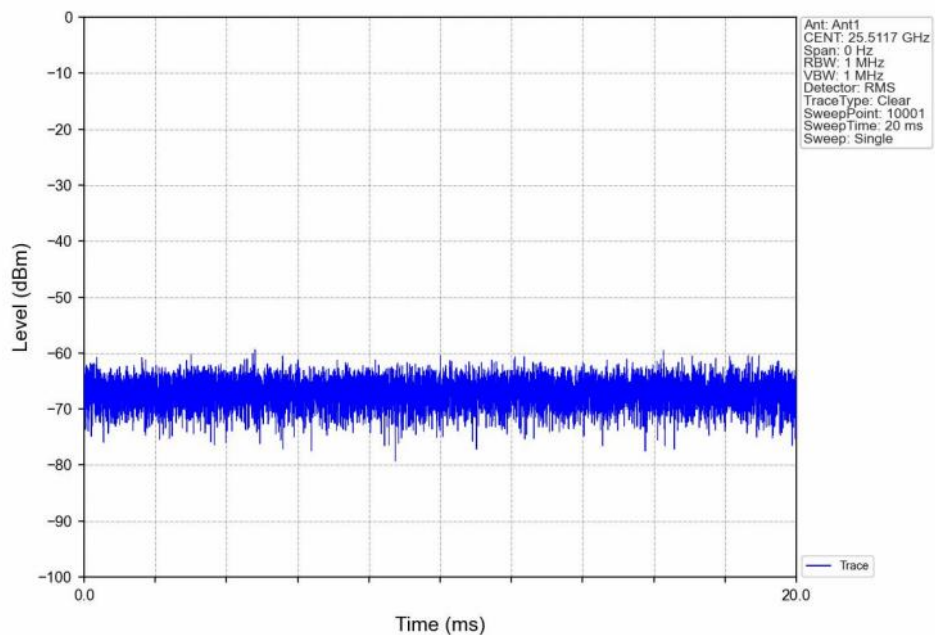
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



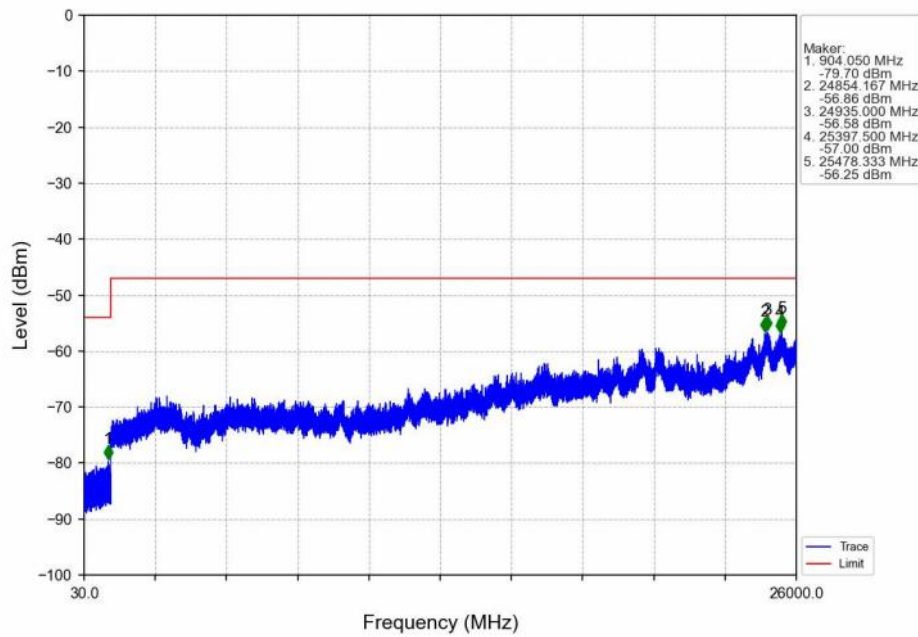
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



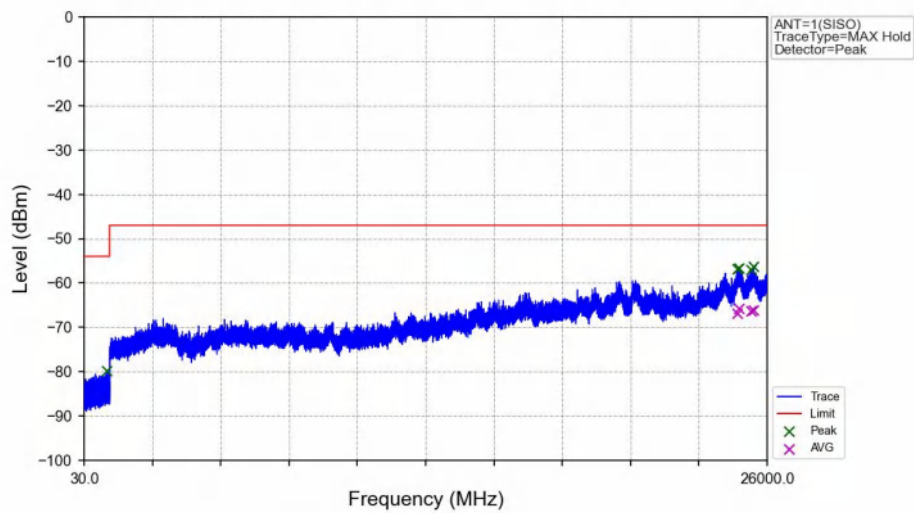
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

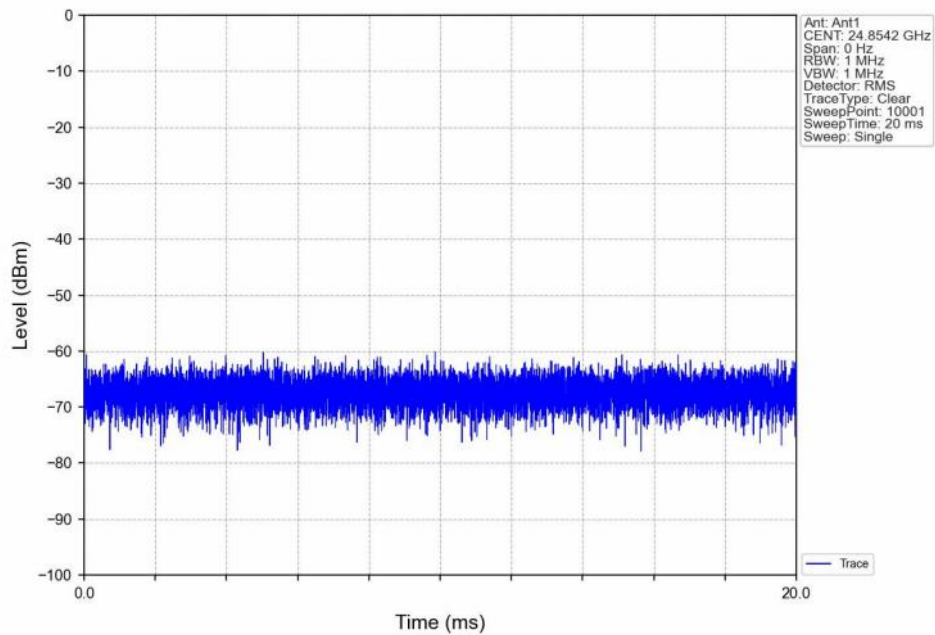


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

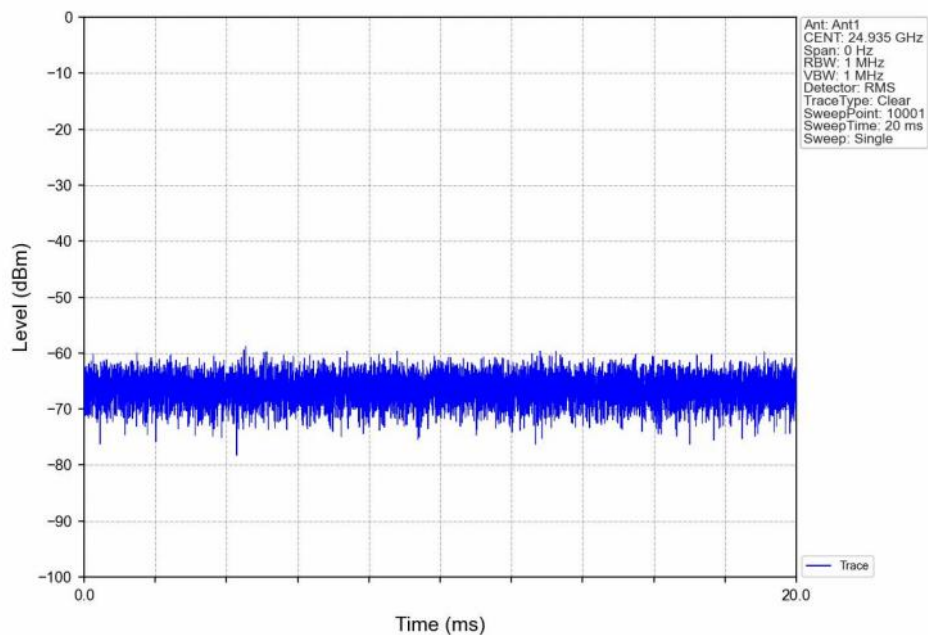


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	904.050	-79.70	/	-54	Pass
1000	26000	1	1	24854.167	-56.86	-66.83	-47	Pass
1000	26000	1	1	24935.000	-56.58	-65.82	-47	Pass
1000	26000	1	1	25397.500	-57.00	-66.23	-47	Pass
1000	26000	1	1	25478.333	-56.25	-66.03	-47	Pass

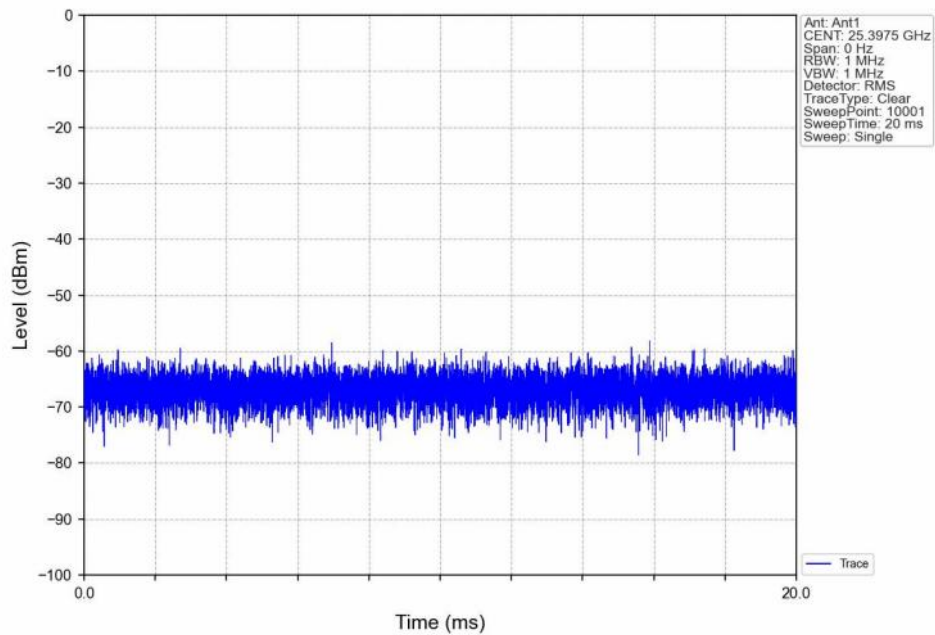
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



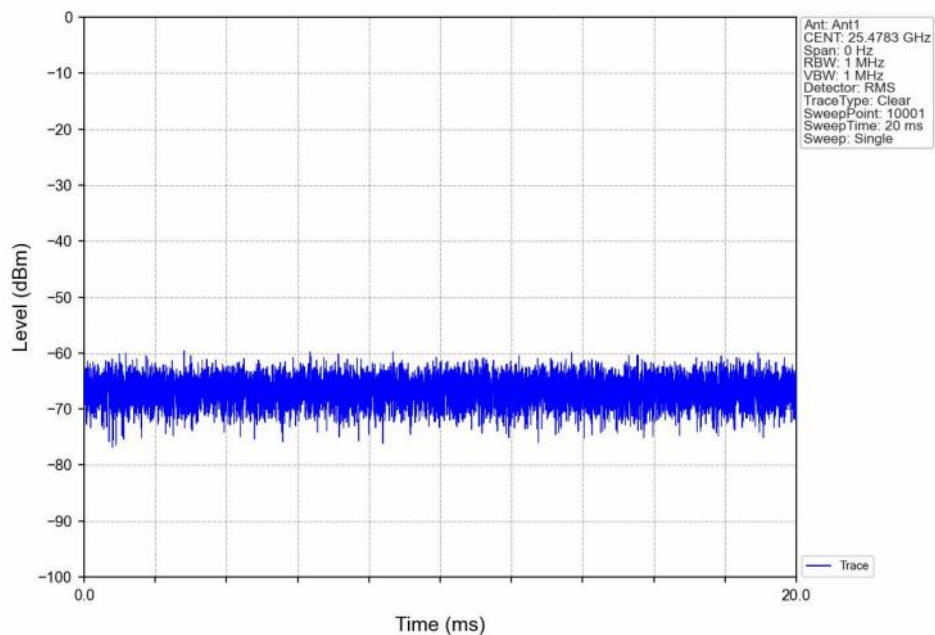
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



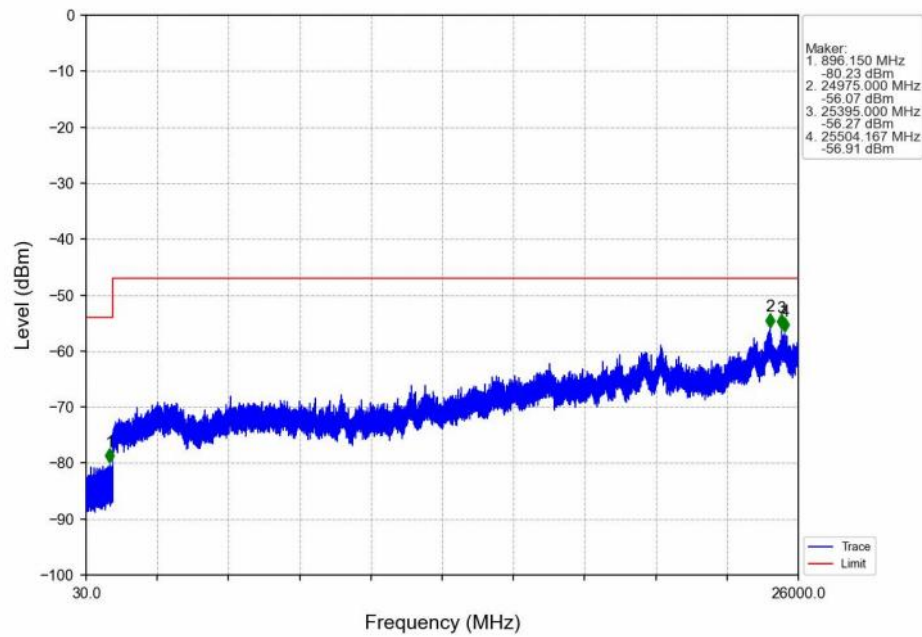
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



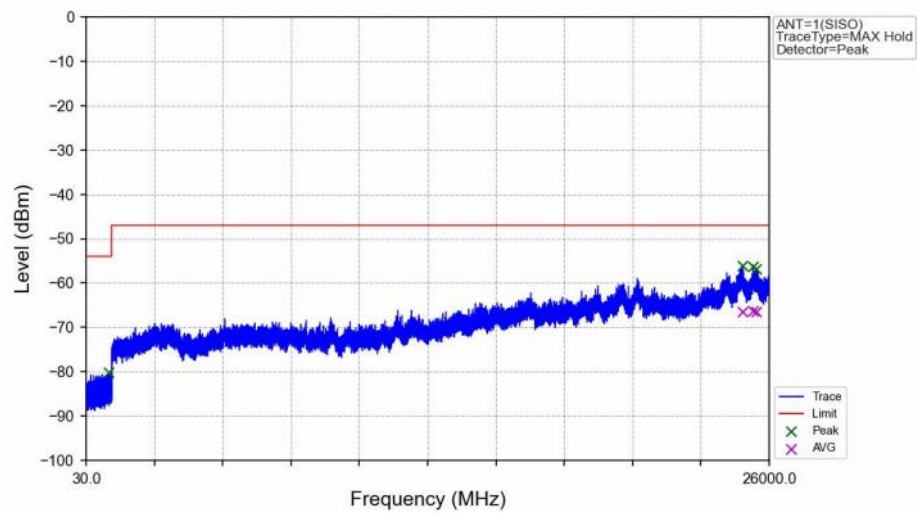
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

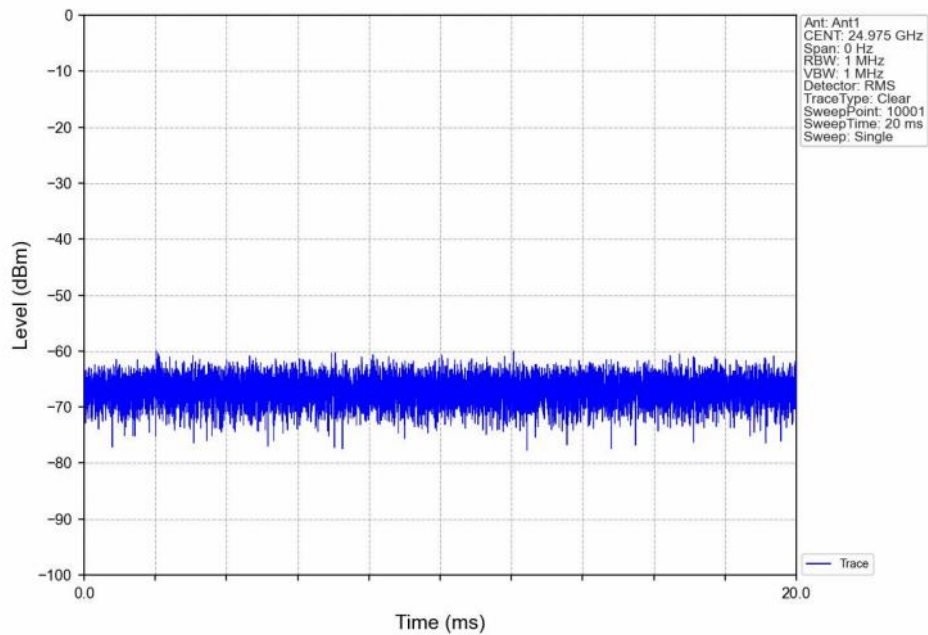


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

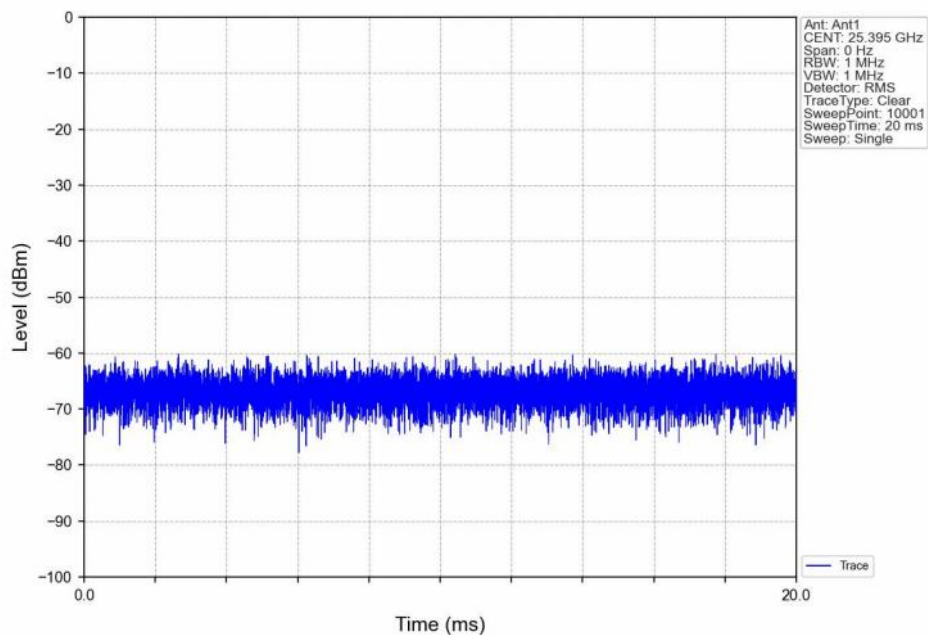


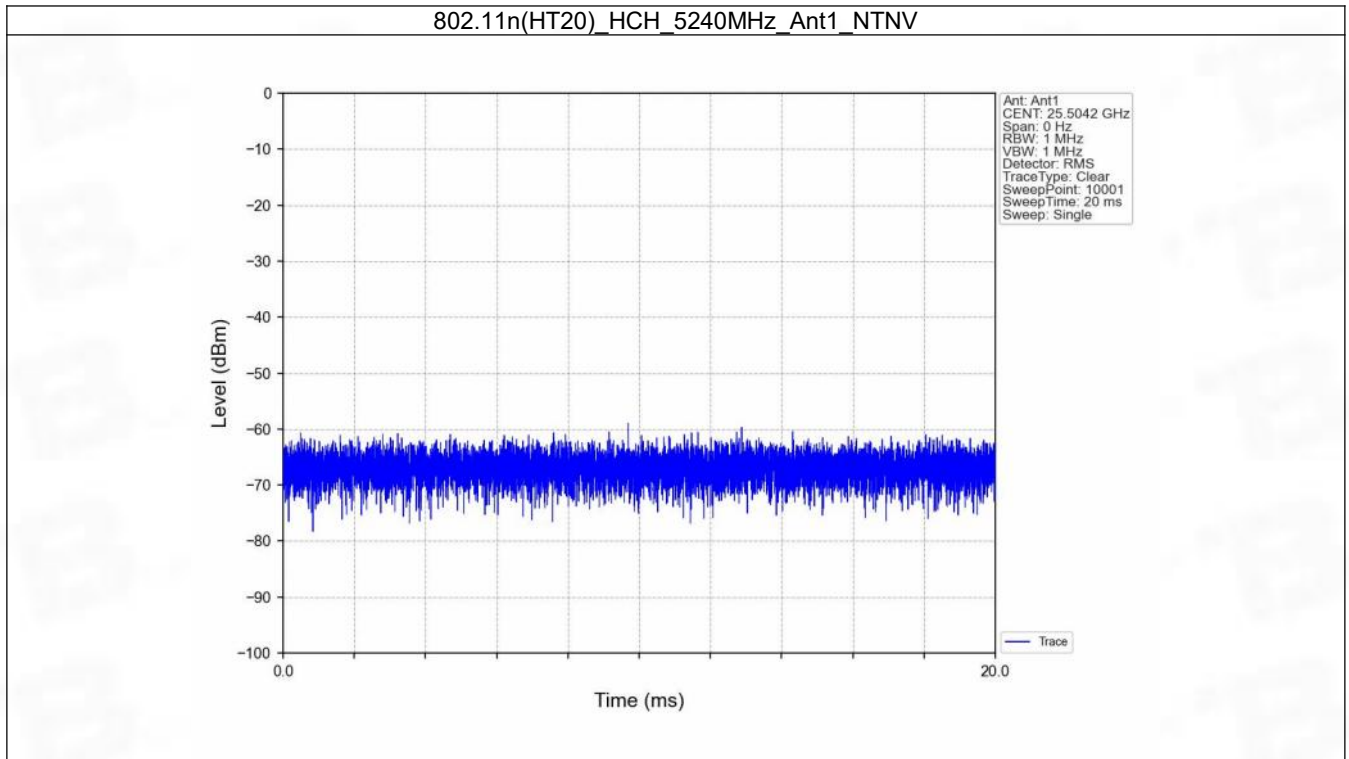
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	896.150	-80.23	/	-54	Pass
1000	26000	1	1	24975.000	-56.07	-66.42	-47	Pass
1000	26000	1	1	25395.000	-56.27	-66.31	-47	Pass
1000	26000	1	1	25504.167	-56.91	-66.43	-47	Pass

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV





10. Carrier Sensing

10.1 Test Result

