

ANT1

1. Duty Cycle

1.1 Test Result

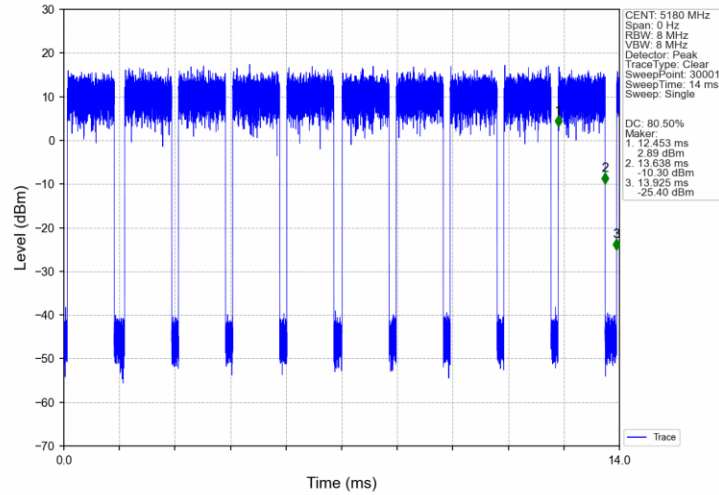
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11ac (VHT20)	SISO	5180	1.185	1.472	80.50	0.94	6.96
		5200	1.185	1.464	80.94	0.92	6.47
		5240	1.186	1.401	84.65	0.72	2.80
		5745	1.185	1.437	82.46	0.84	4.95
		5785	1.185	1.419	83.51	0.78	3.89
		5825	1.185	1.437	82.46	0.84	4.95

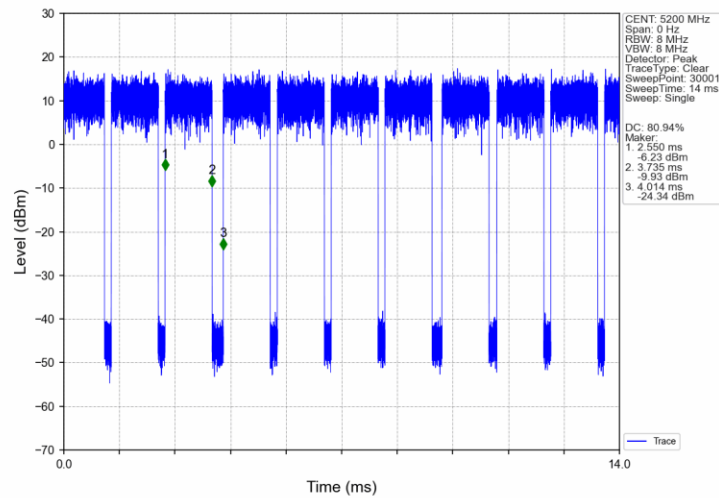
1.2 Test Graph

1.2.1 Ant1

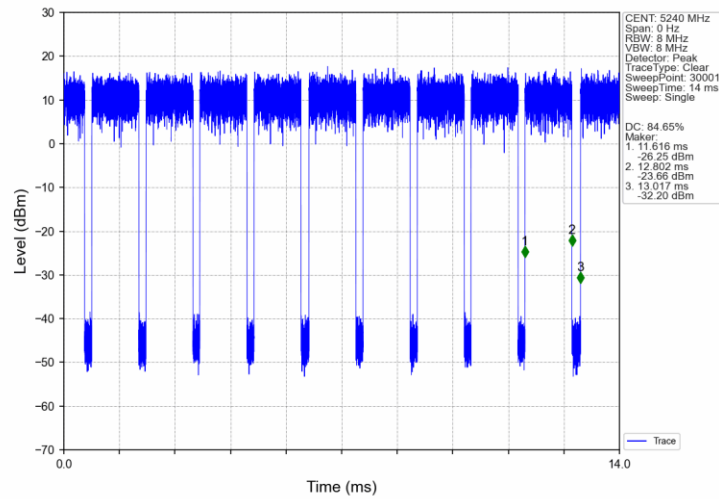
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



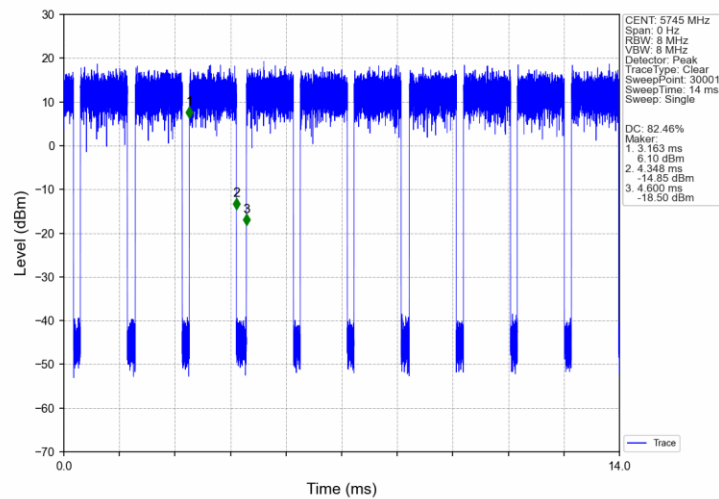
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



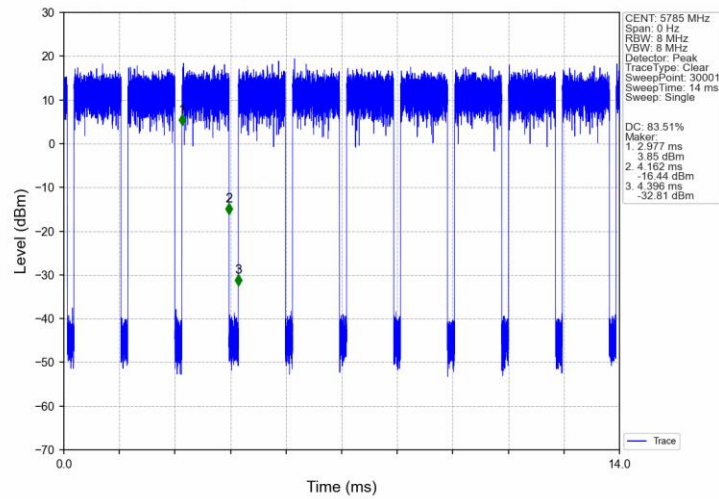
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



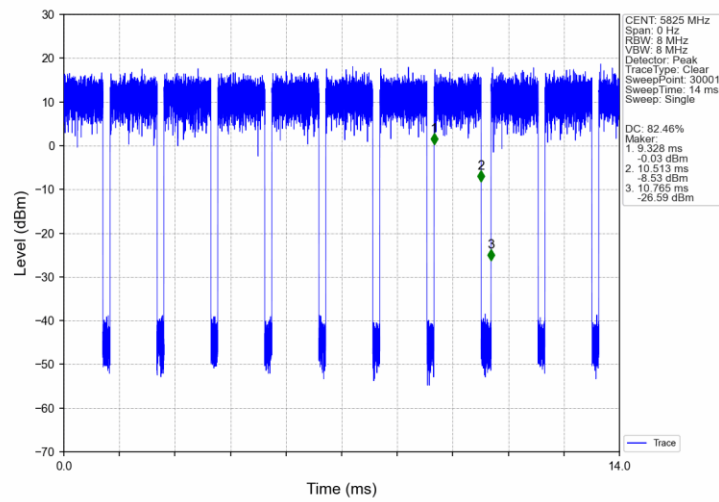
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN



802.11ac(VHT20) HCH 5825MHz Ant1 NTN



ANT2

1. Duty Cycle

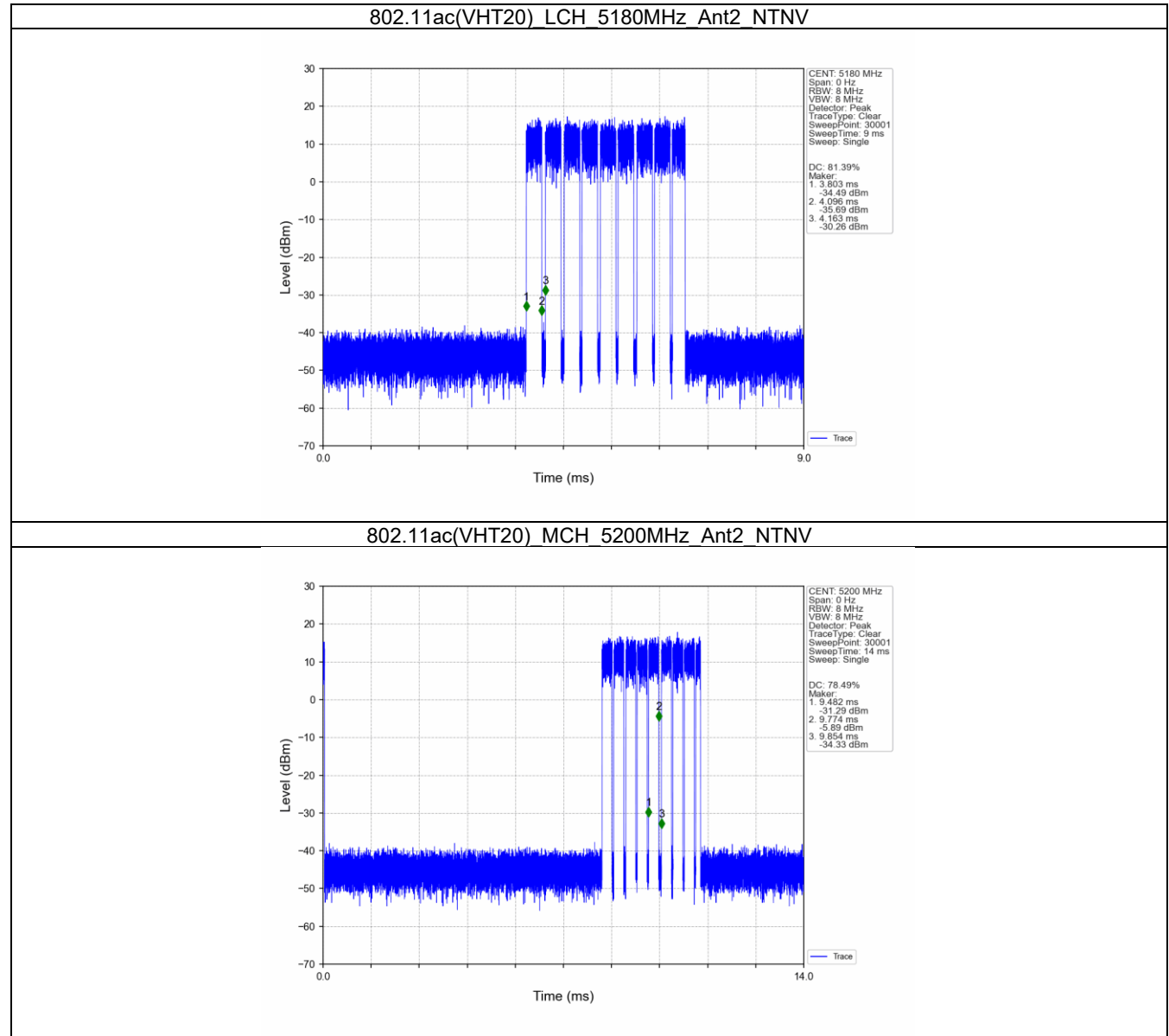
1.1 Test Result

1.1.1 Ant1

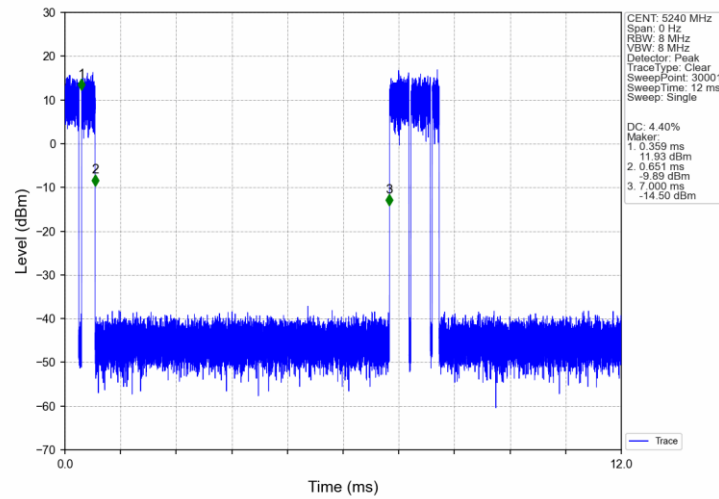
Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11ac (VHT20)	SISO	5180	0.293	0.360	81.39	0.89	6.60
		5200	0.292	0.372	78.49	1.05	9.30
		5240	0.292	6.641	4.40	13.57	86.92
		5745	1.093	10.176	10.74	9.69	28.08
		5785	0.307	5.673	5.41	12.67	92.49
		5825	0.136	11.424	1.19	19.24	84.55

1.2 Test Graph

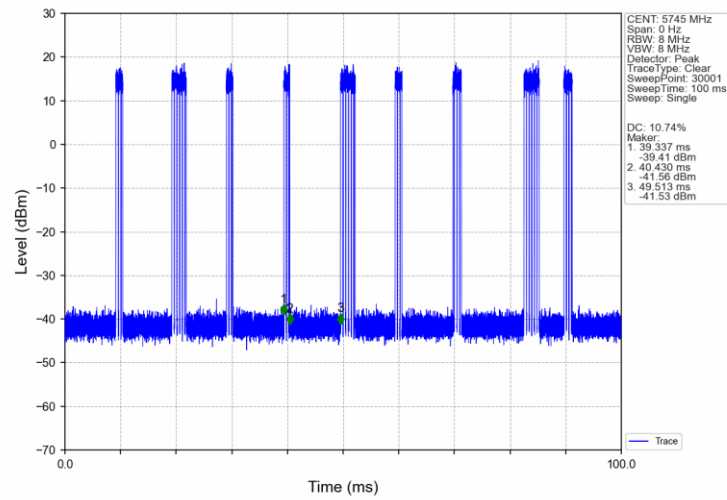
1.2.1 Ant1



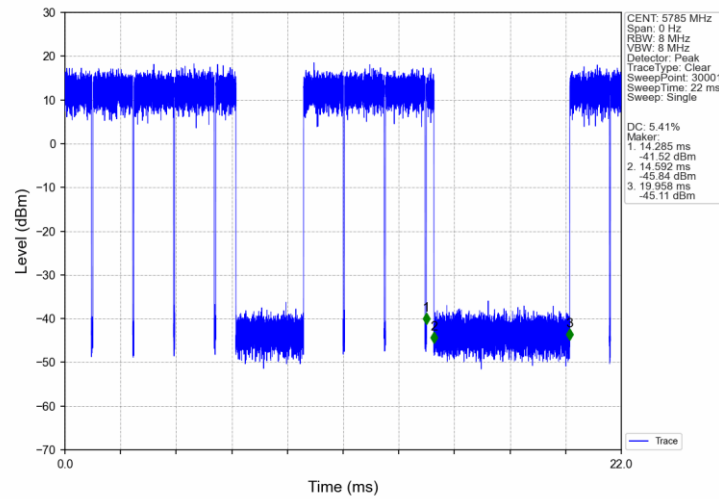
802.11ac(VHT20) HCH 5240MHz Ant2 NTN



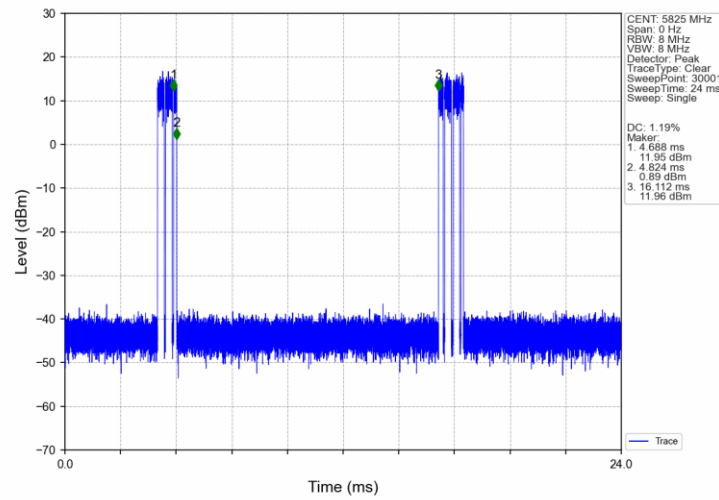
802.11ac(VHT20) LCH 5745MHz Ant2 NTN



802.11ac(VHT20) MCH_5785MHz_Ant2_NTNV



802.11ac(VHT20) HCH_5825MHz_Ant2_NTNV



ANT1

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	SISO	5180	1	18.105	/	Pass
		5200	1	18.077	/	Pass
		5240	1	18.094	/	Pass
		5745	1	18.030	/	Pass
		5785	1	18.044	/	Pass
		5825	1	18.027	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	SISO	5180	1	23.444	/	Pass
		5200	1	22.944	/	Pass
		5240	1	27.680	/	Pass

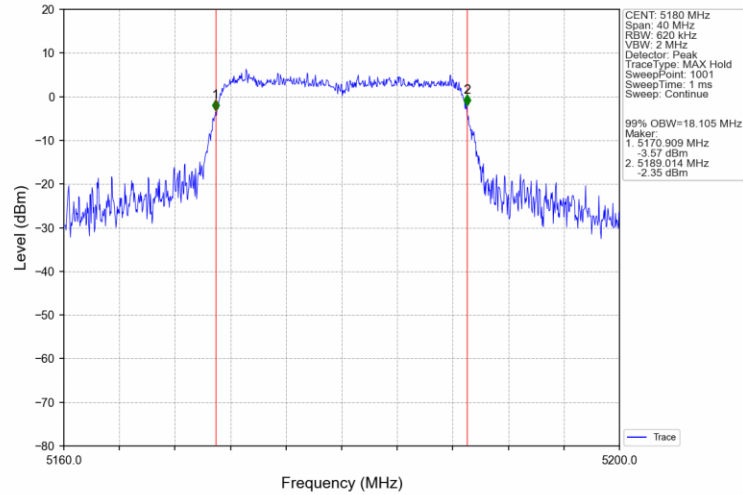
2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	SISO	5745	1	17.223	≥ 0.5	Pass
		5785	1	17.310	≥ 0.5	Pass
		5825	1	17.382	≥ 0.5	Pass

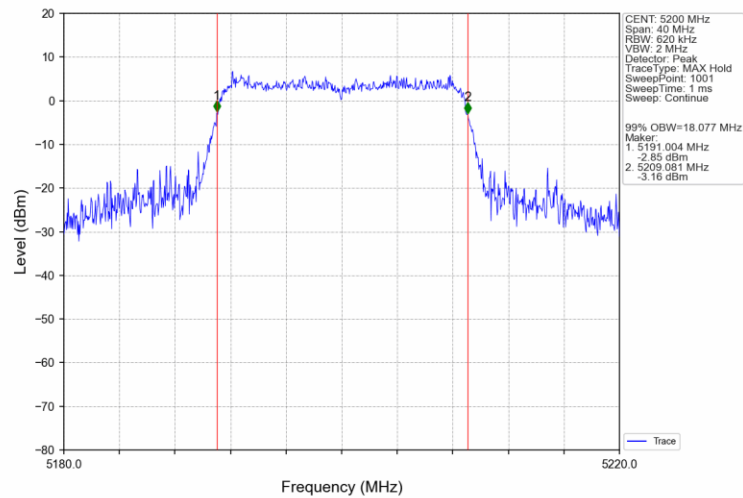
2.2 Test Graph

2.2.1 OBW

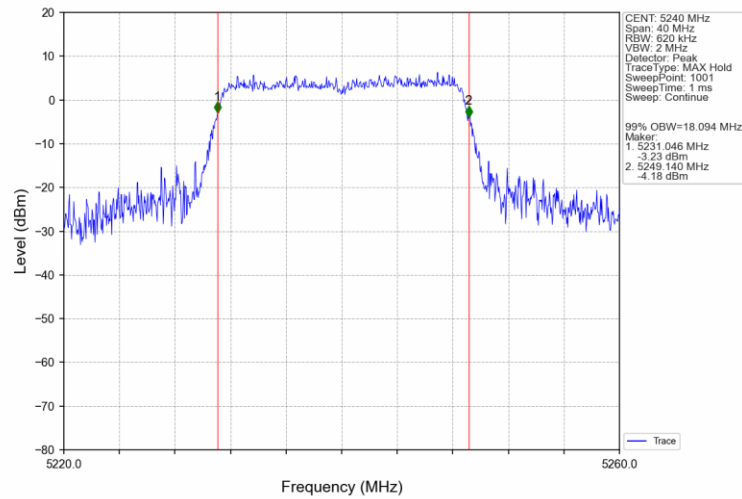
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



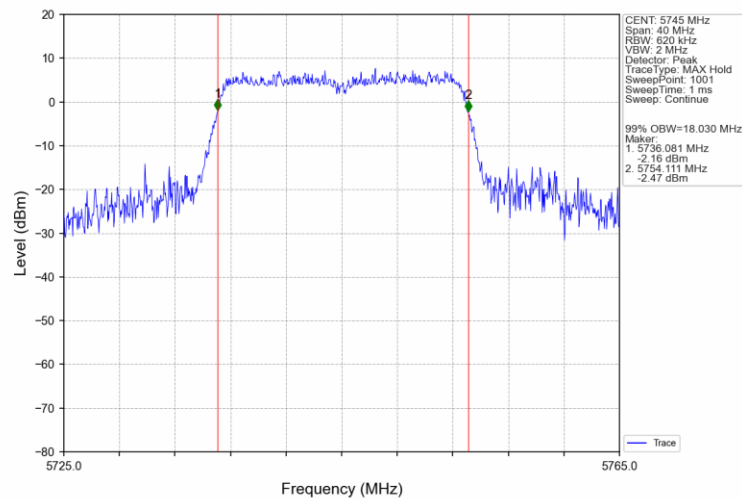
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



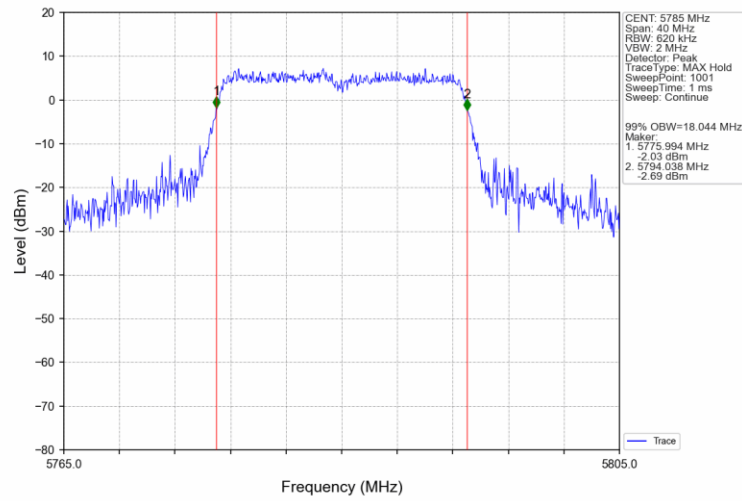
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



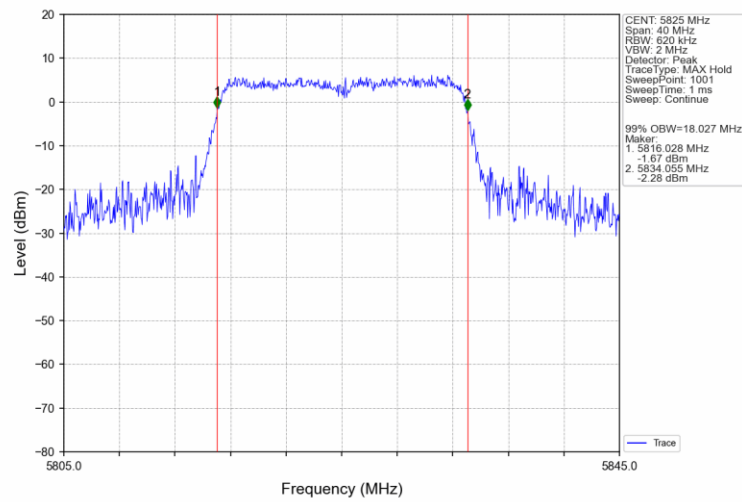
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN

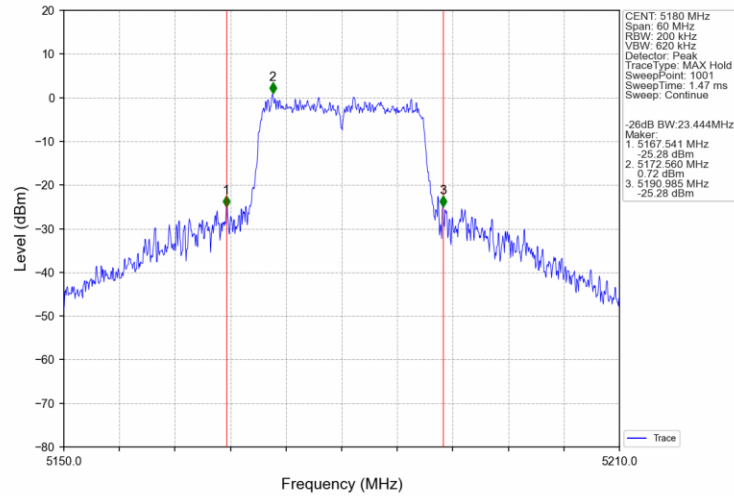


802.11ac(VHT20) HCH 5825MHz Ant1 NTN

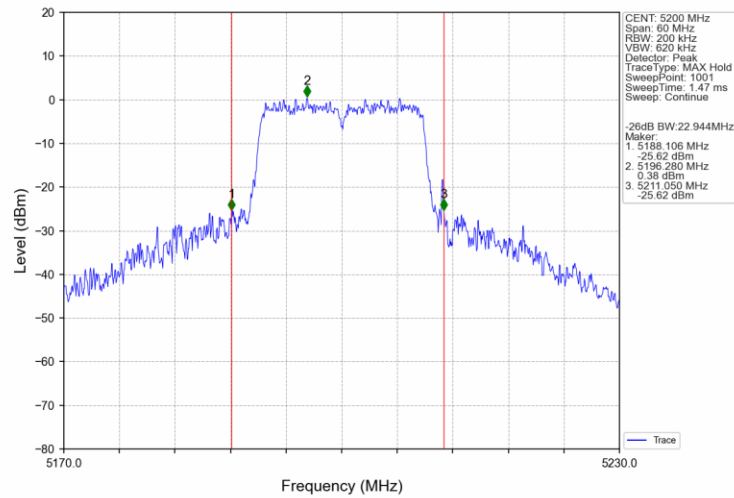


2.2.2 26dB BW

802.11ac(VHT20) LCH 5180MHz Ant1 NTN

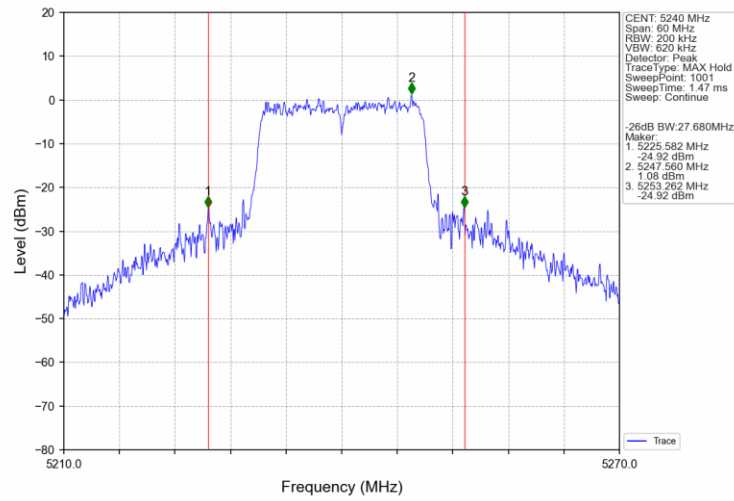


802.11ac(VHT20) MCH 5200MHz Ant1 NTN



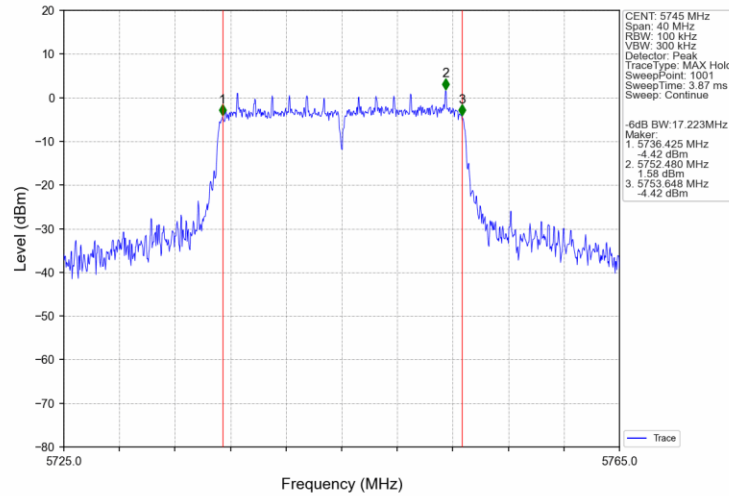


802.11ac(VHT20) HCH 5240MHz Ant1 NTN

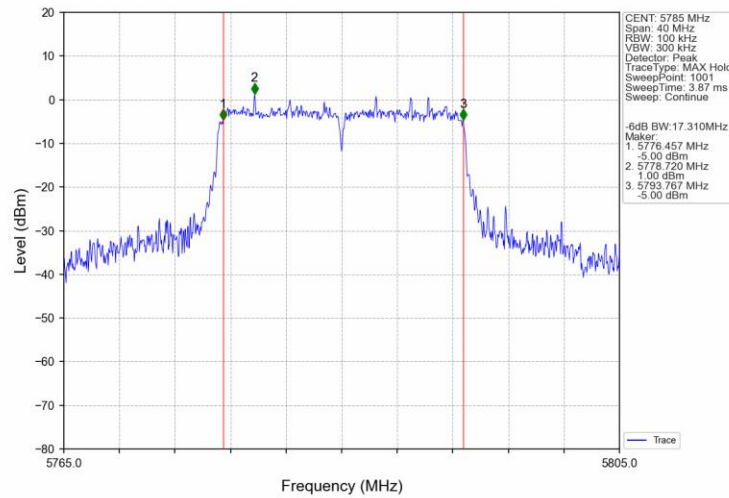


2.2.3 6dB BW

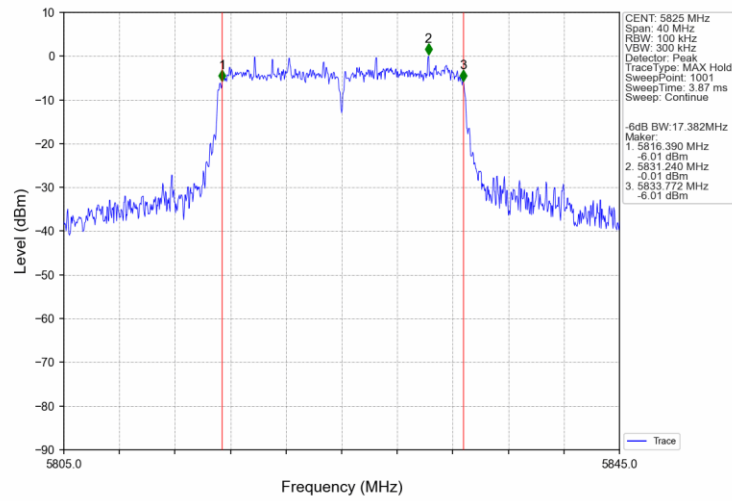
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN



802.11ac(VHT20) HCH 5825MHz Ant1 NTN



ANT2

2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT2	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	SISO	5180	1	17.576	/	Pass
		5200	1	17.652	/	Pass
		5240	1	17.652	/	Pass
		5745	1	17.614	/	Pass
		5785	1	17.593	/	Pass
		5825	1	17.579	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT2	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	SISO	5180	1	18.989	/	Pass
		5200	1	19.015	/	Pass
		5240	1	18.857	/	Pass

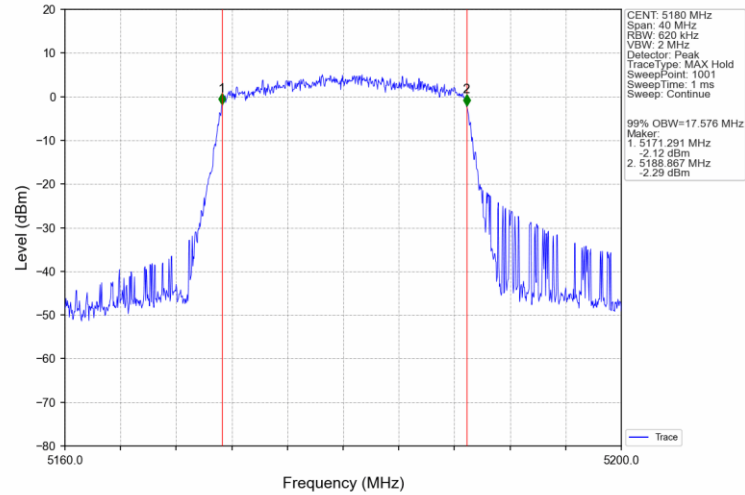
2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT2	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	SISO	5745	1	17.329	≥ 0.5	Pass
		5785	1	14.900	≥ 0.5	Pass
		5825	1	14.760	≥ 0.5	Pass

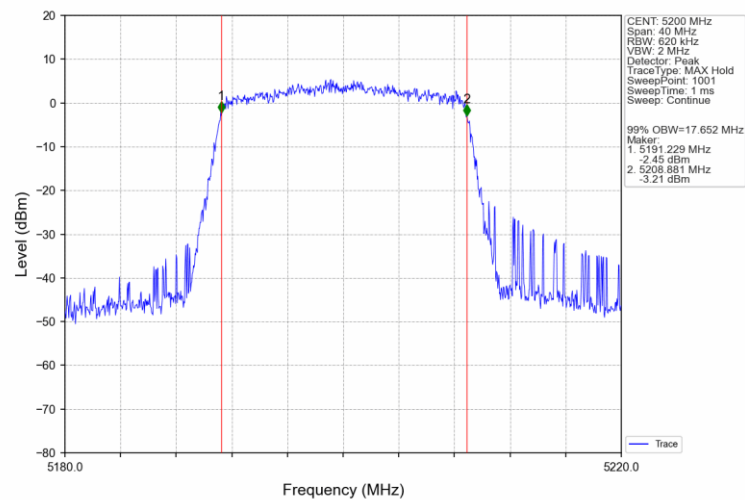
2.2 Test Graph

2.2.1 OBW

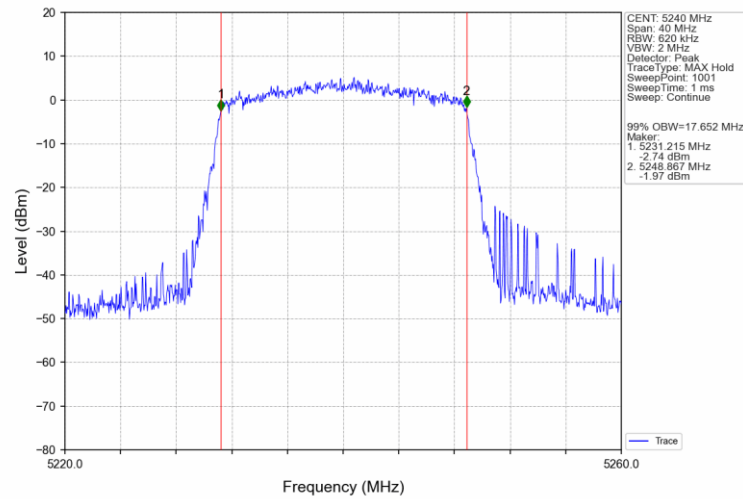
802.11ac(VHT20) LCH 5180MHz Ant2 NTN



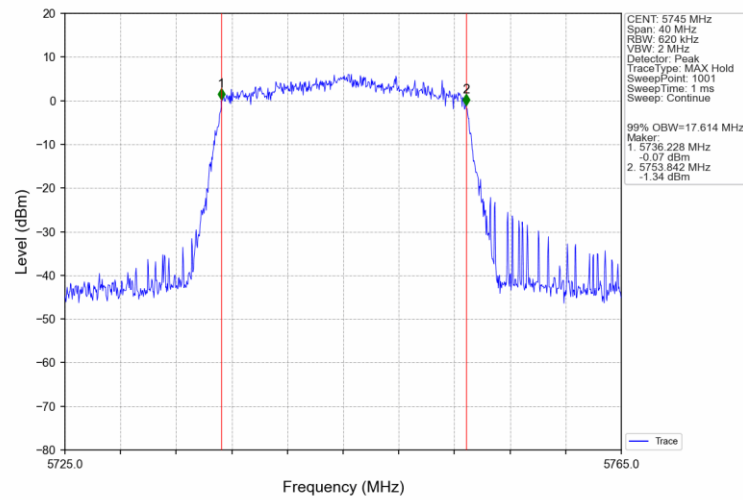
802.11ac(VHT20) MCH 5200MHz Ant2 NTN



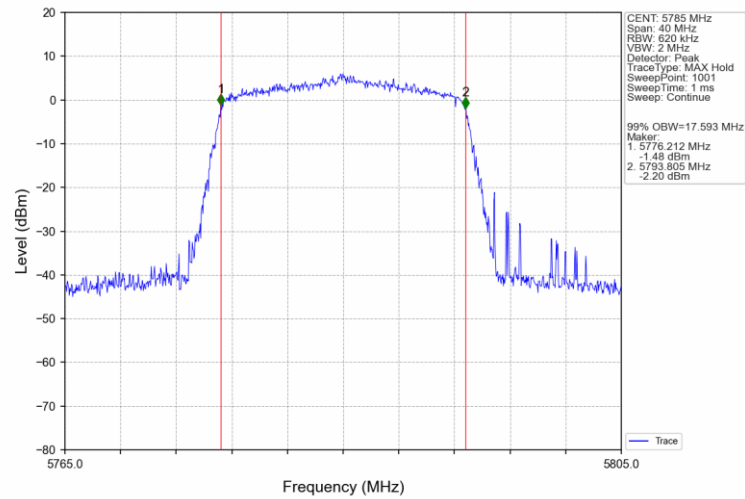
802.11ac(VHT20) HCH 5240MHz_Ant2_NTNV



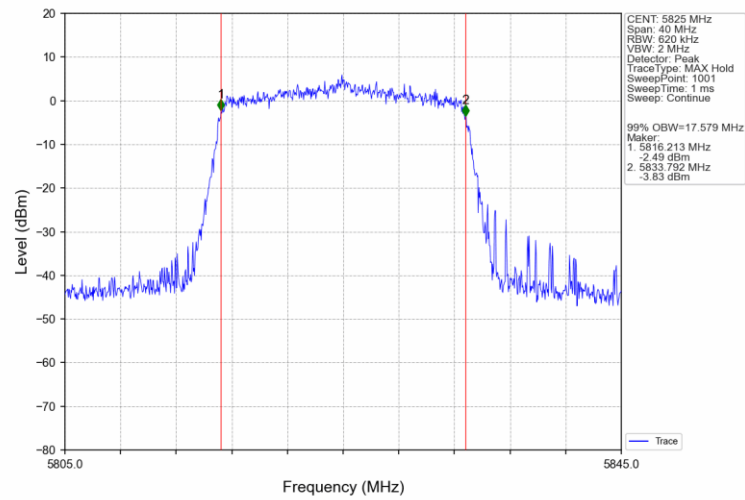
802.11ac(VHT20) LCH 5745MHz_Ant2_NTNV



802.11ac(VHT20) MCH 5785MHz_Ant2_NTNV

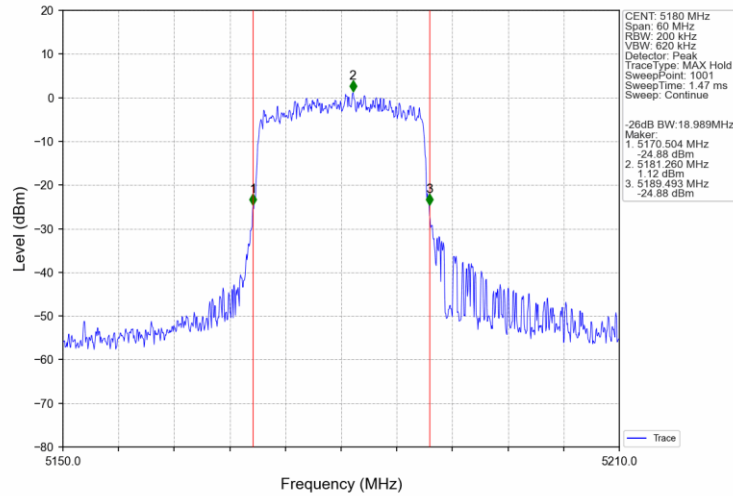


802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV

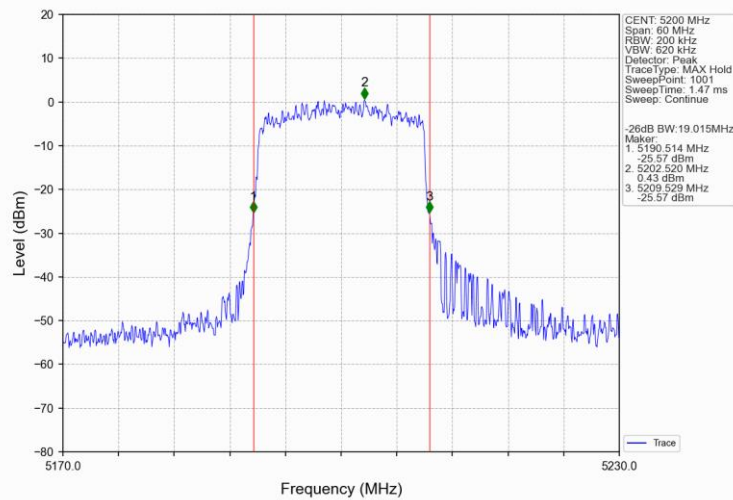


2.2.2 26dB BW

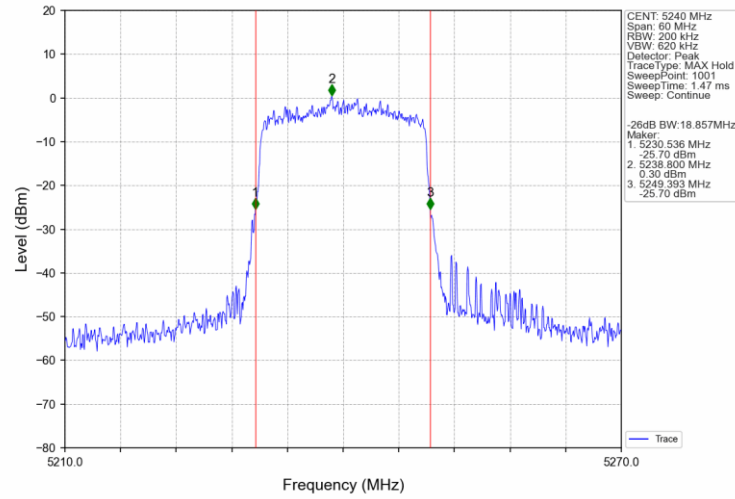
802.11ac(VHT20) LCH 5180MHz Ant2 NTN



802.11ac(VHT20) MCH 5200MHz Ant2 NTN

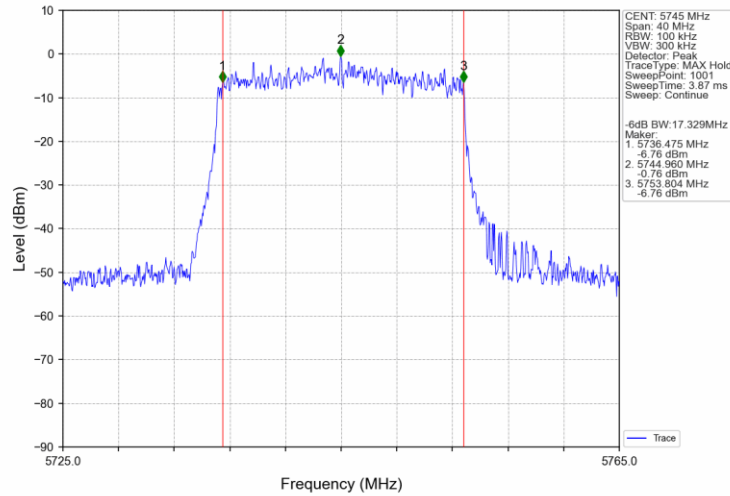


802.11ac(VHT20) HCH 5240MHz Ant2 NTNv

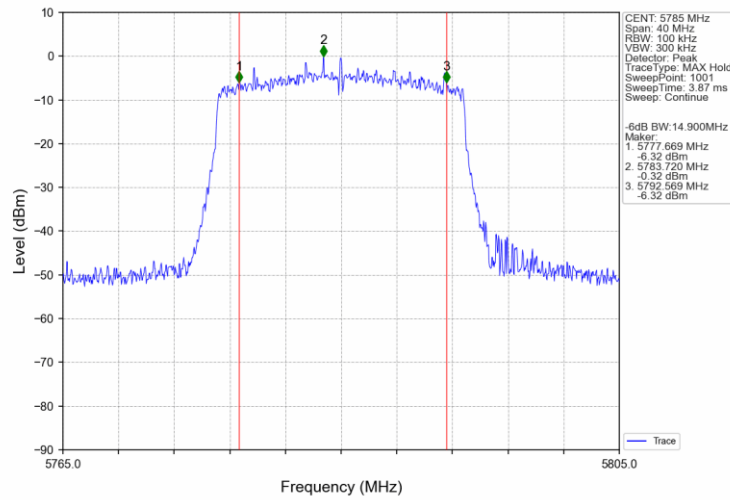


2.2.3 6dB BW

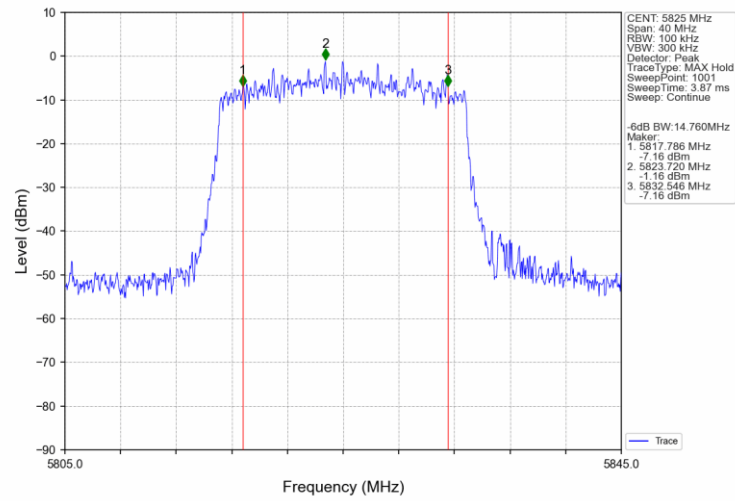
802.11ac(VHT20) LCH 5745MHz Ant2 NTN



802.11ac(VHT20) MCH 5785MHz Ant2 NTN



802.11ac(VHT20) HCH 5825MHz Ant2 NTNv



ANT1

3. Maximum Conducted Output Power

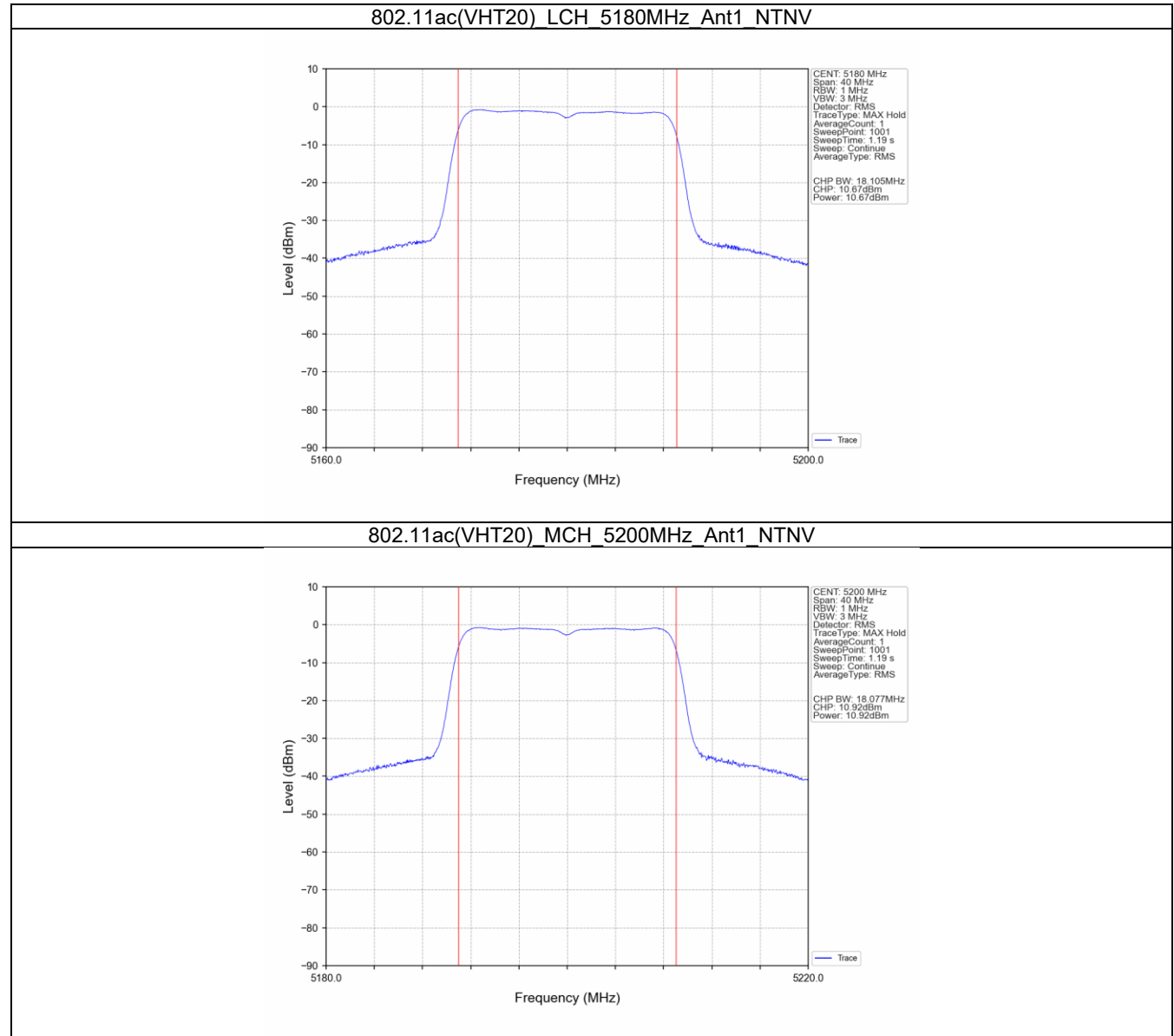
3.1 Test Result

3.1.1 Power

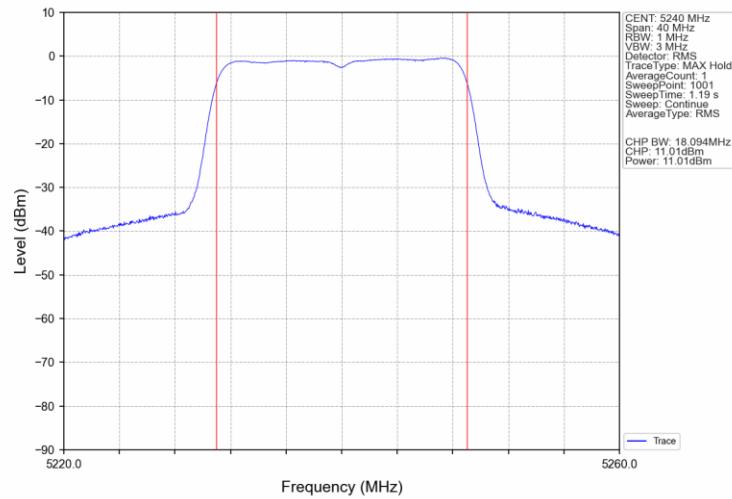
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5180	10.67	<=23.98	Pass
		5200	10.92	<=23.98	Pass
		5240	11.01	<=23.98	Pass
		5745	12.32	<=30	Pass
		5785	12.31	<=30	Pass
		5825	11.49	<=30	Pass

3.2 Test Graph

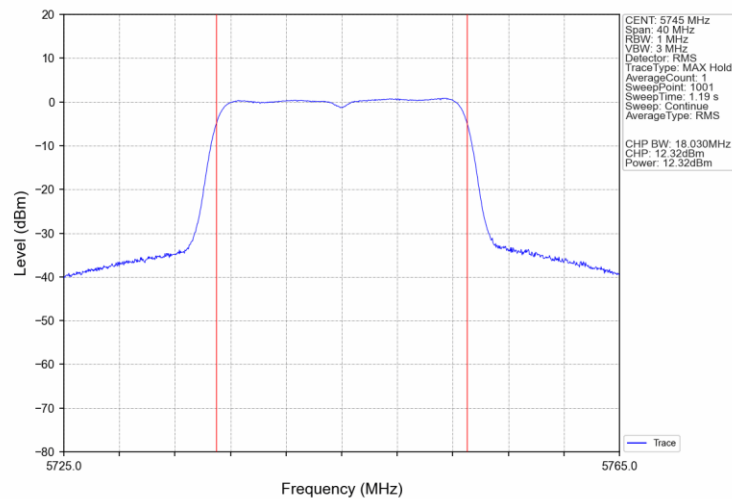
3.2.1 Power



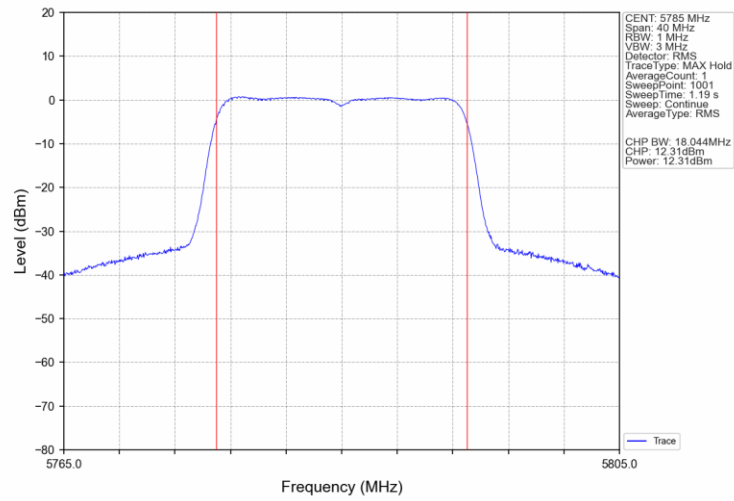
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



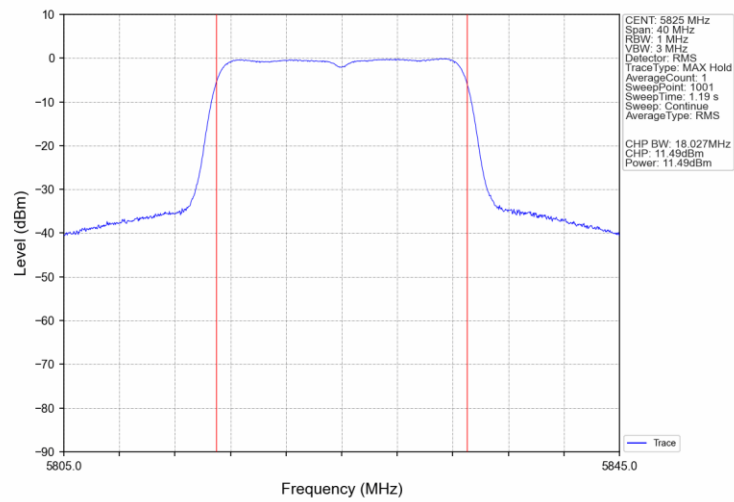
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) MCH 5785MHz Ant1 NTN



802.11ac(VHT20) HCH 5825MHz Ant1 NTN



ANT2

3. Maximum Conducted Output Power

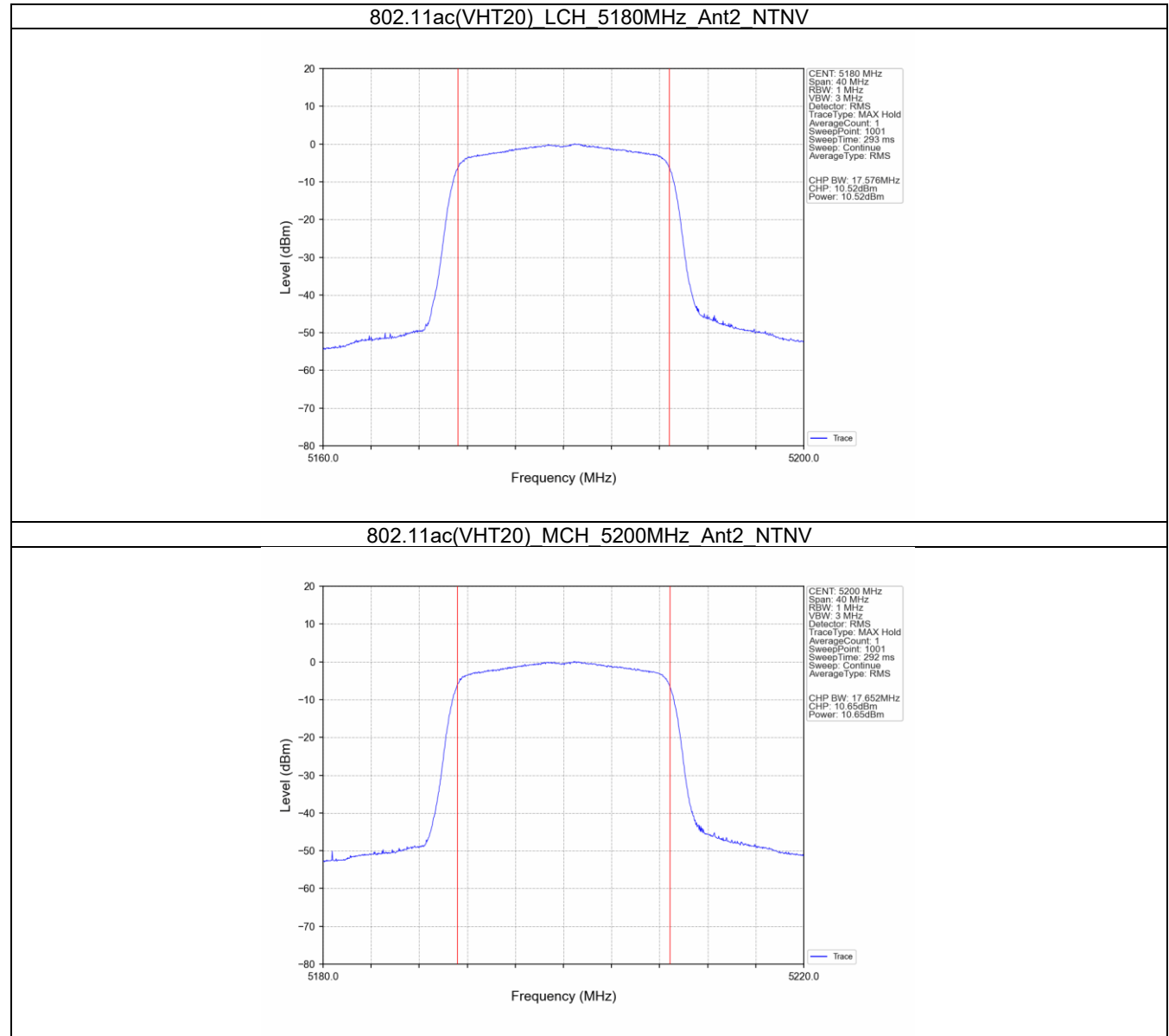
3.1 Test Result

3.1.1 Power

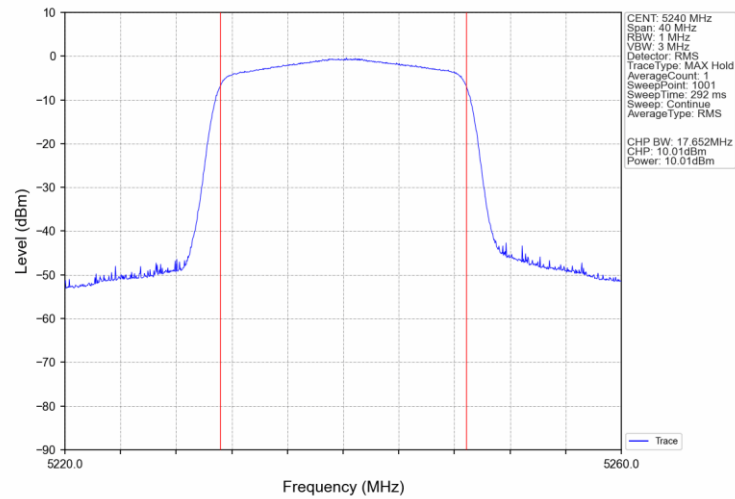
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT2	Limit	
802.11ac (VHT20)	SISO	5180	10.52	<=23.98	Pass
		5200	10.65	<=23.98	Pass
		5240	10.01	<=23.98	Pass
		5745	10.98	<=30	Pass
		5785	11.21	<=30	Pass
		5825	10.29	<=30	Pass

3.2 Test Graph

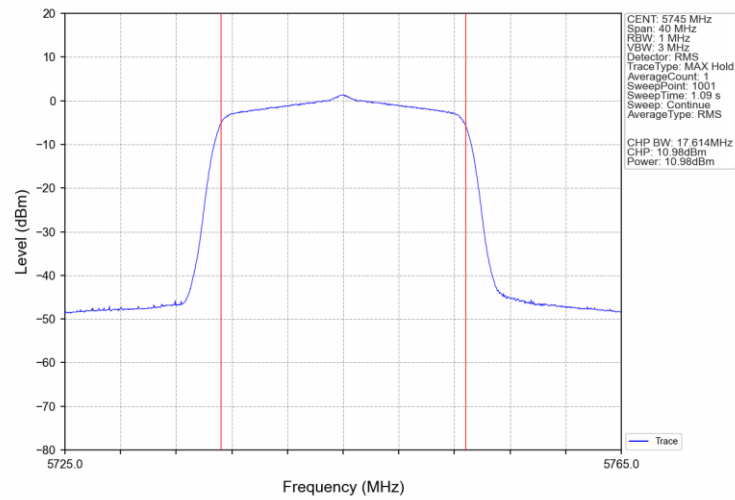
3.2.1 Power



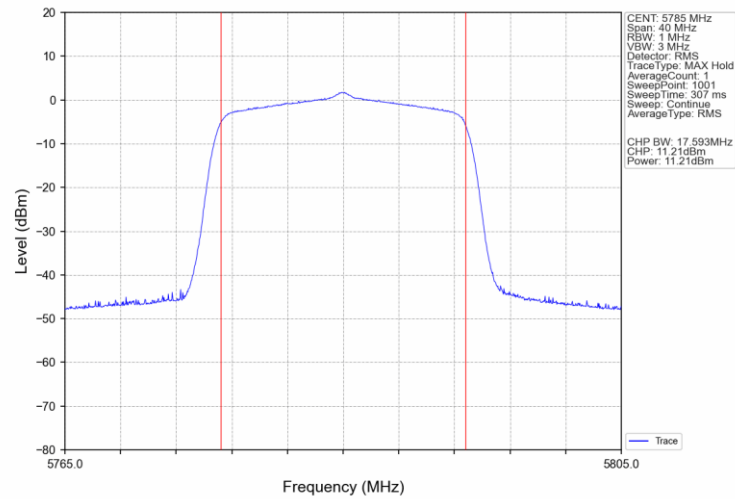
802.11ac(VHT20) HCH 5240MHz_Ant2_NTNV



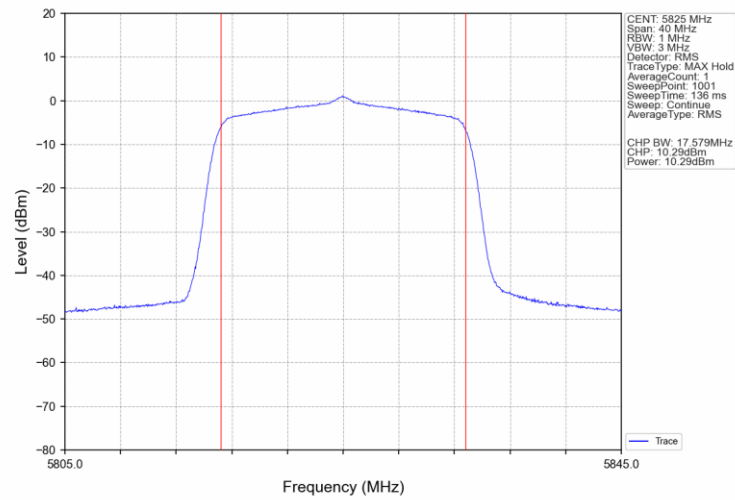
802.11ac(VHT20) LCH 5745MHz_Ant2_NTNV



802.11ac(VHT20) MCH 5785MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



MIMO

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			MIMO	Limit	
802.11ac (VHT20)	MIMO	5180	13.61	<=23.98	Pass
		5200	13.80	<=23.98	Pass
		5240	13.55	<=23.98	Pass
		5745	14.71	<=30	Pass
		5785	14.81	<=30	Pass
		5825	13.94	<=30	Pass

ANT1

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5180	-0.77	<=11	Pass
		5200	-0.76	<=11	Pass
		5240	-0.40	<=11	Pass

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5745	-1.90	<=30	Pass
		5785	-2.09	<=30	Pass
		5825	-2.80	<=30	Pass

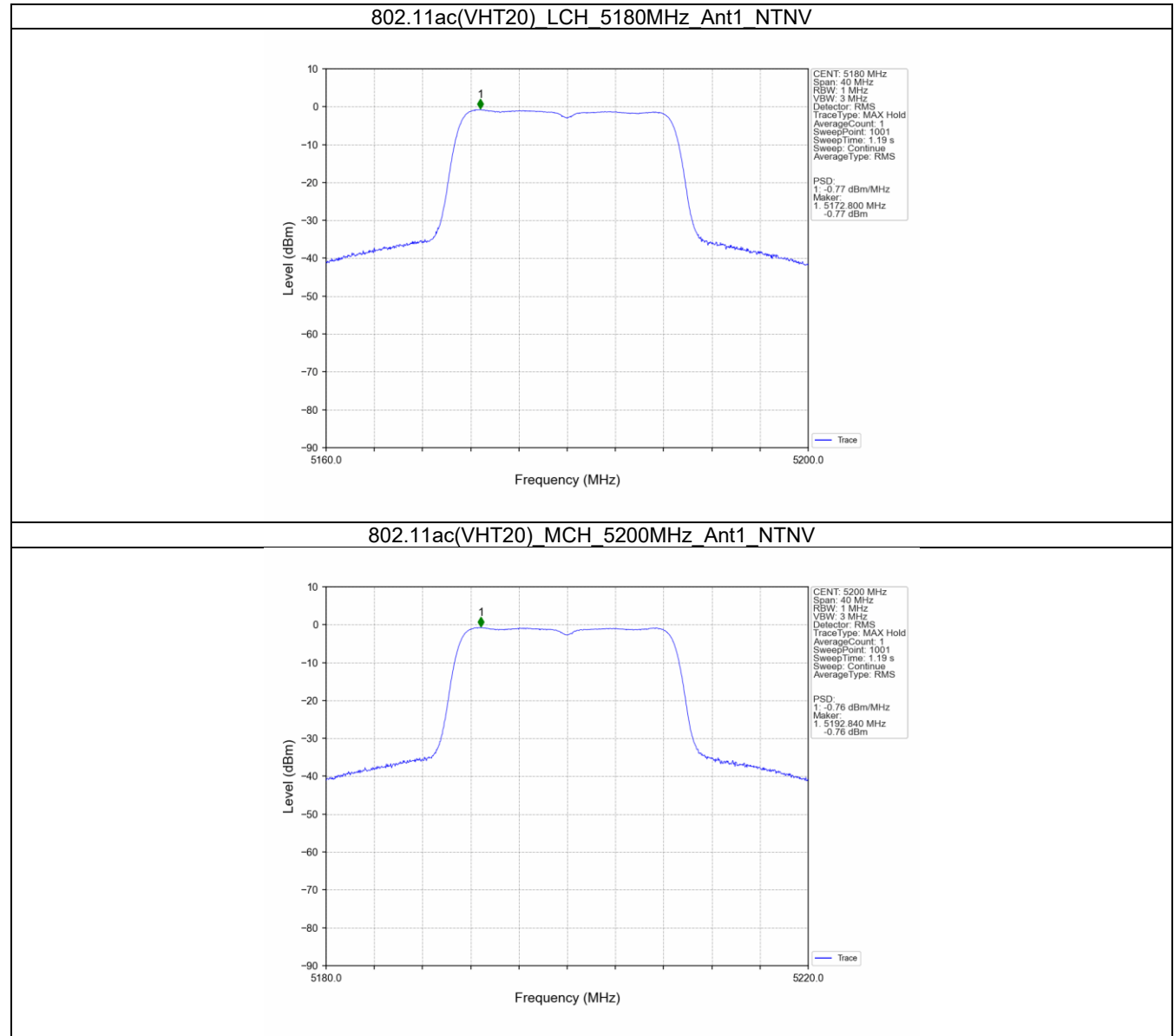
Note 1: dBm/500KHz=dBm/300KHz+Duty Cycle Correction Factor (dBm) +RBW Factor (dBm)

Note 2: RBW Factor=10log (500 KHz /300 KHz)

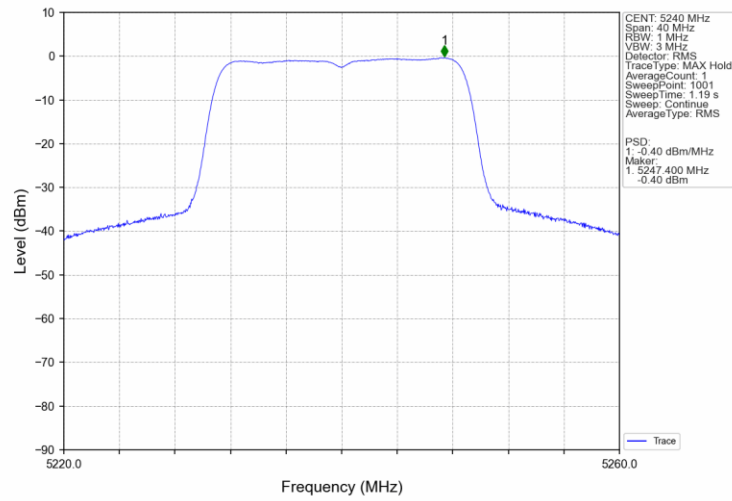
Note 3: The result values in the data are calculated as dBm / 500 KHz.

4.2 Test Graph

4.2.1 PSD

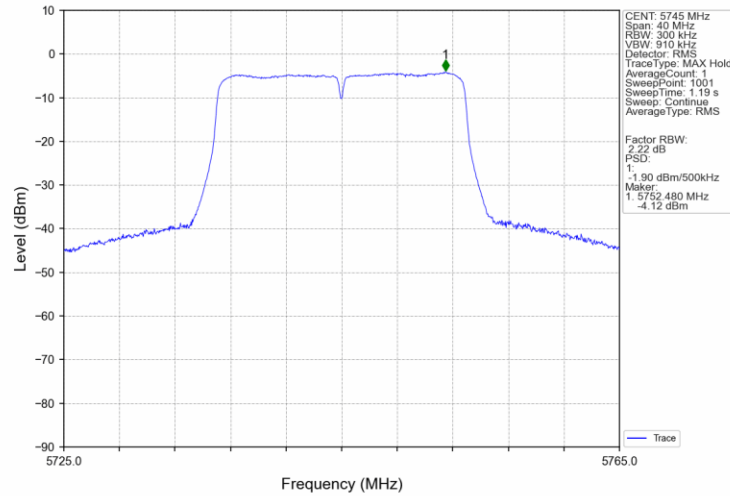


802.11ac(VHT20) HCH 5240MHz Ant1 NTN

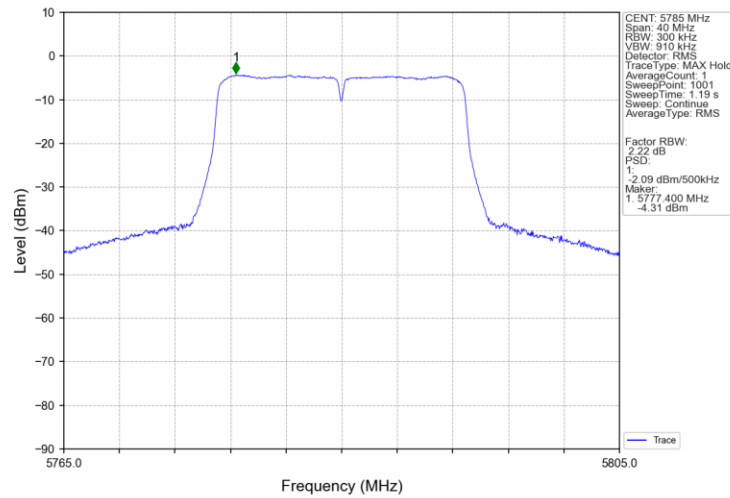


4.2.2 PSD-Band3

802.11ac(VHT20) LCH 5745MHz Ant1 NTN

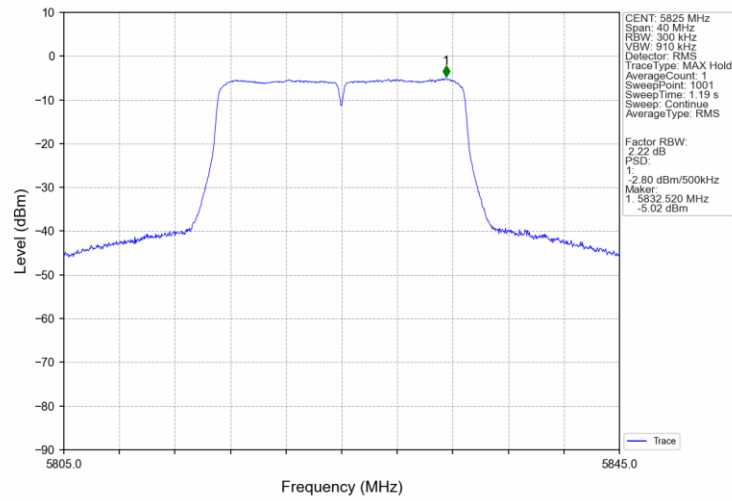


802.11ac(VHT20) MCH 5785MHz Ant1 NTN





802.11ac(VHT20) HCH 5825MHz Ant1 NTN



ANT2

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT2	Limit	
802.11ac (VHT20)	SISO	5180	-0.06	<=11	Pass
		5200	0.13	<=11	Pass
		5240	-0.56	<=11	Pass

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT2	Limit	
802.11ac (VHT20)	SISO	5745	0.61	<=30	Pass
		5785	1.12	<=30	Pass
		5825	0.79	<=30	Pass

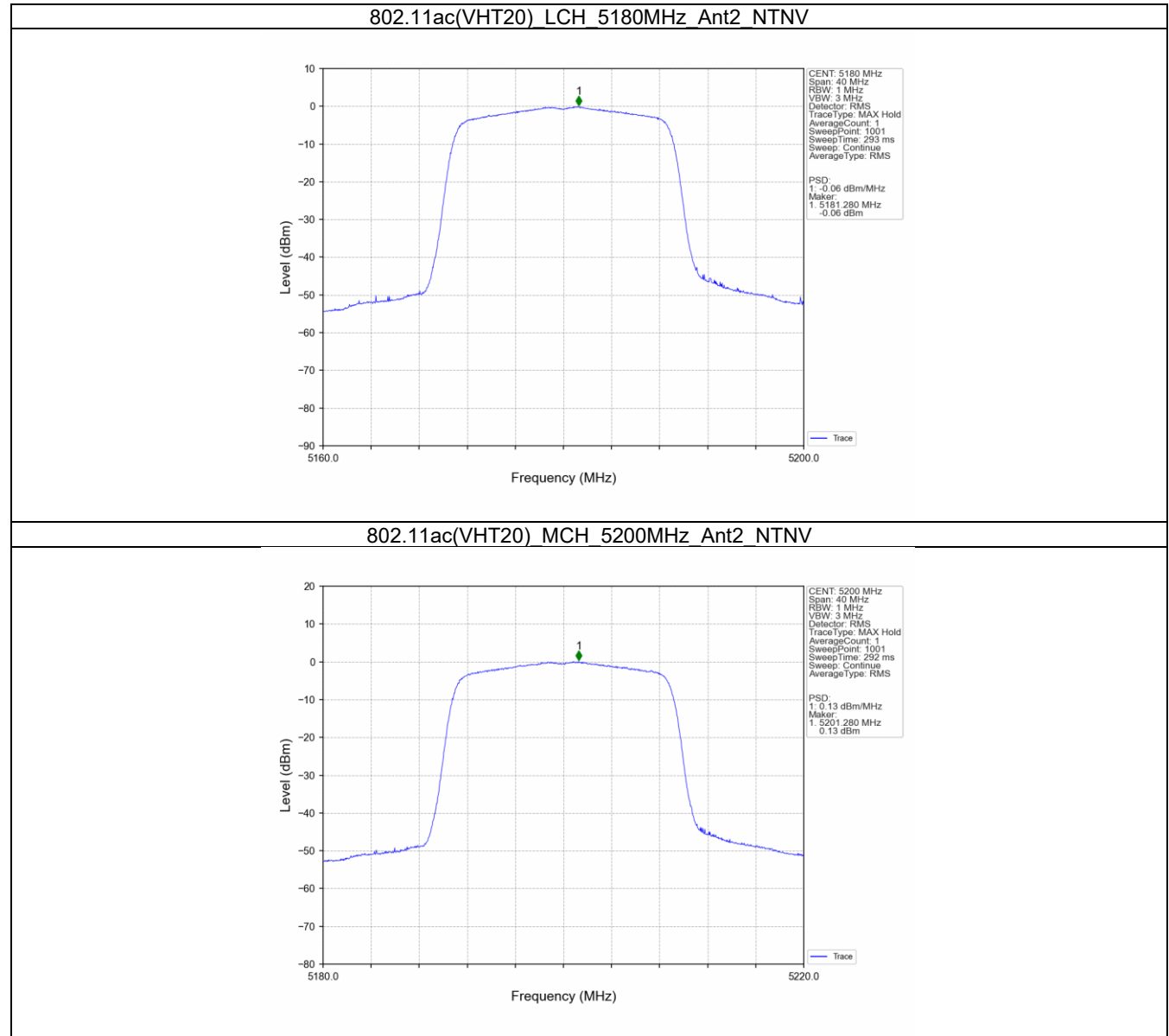
Note 1: dBm/500KHz=dBm/300KHz+Duty Cycle Correction Factor (dBm) +RBW Factor (dBm)

Note 2: RBW Factor=10log (500 KHz /300 KHz)

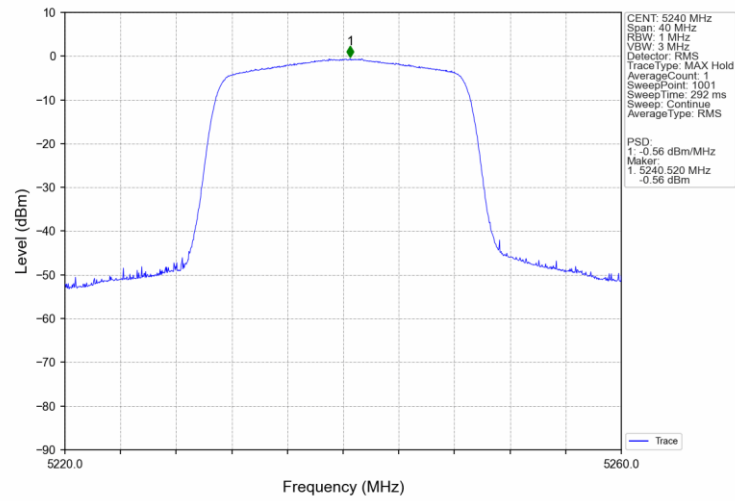
Note 3: The result values in the data are calculated as dBm / 500 KHz.

4.2 Test Graph

4.2.1 PSD

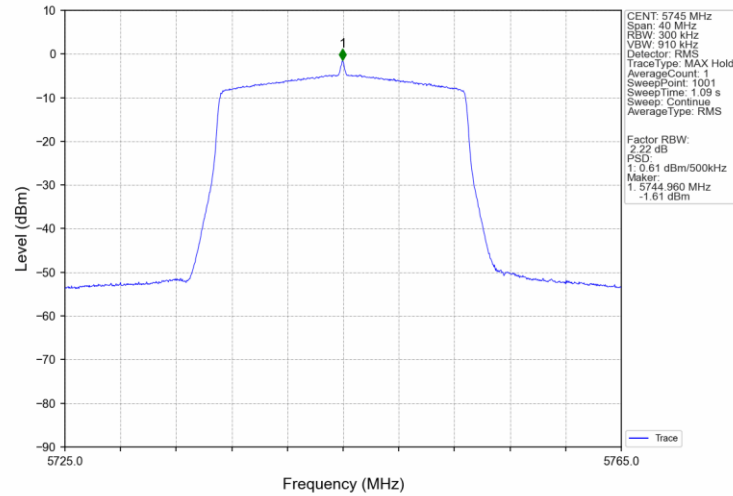


802.11ac(VHT20) HCH 5240MHz Ant2 NTN

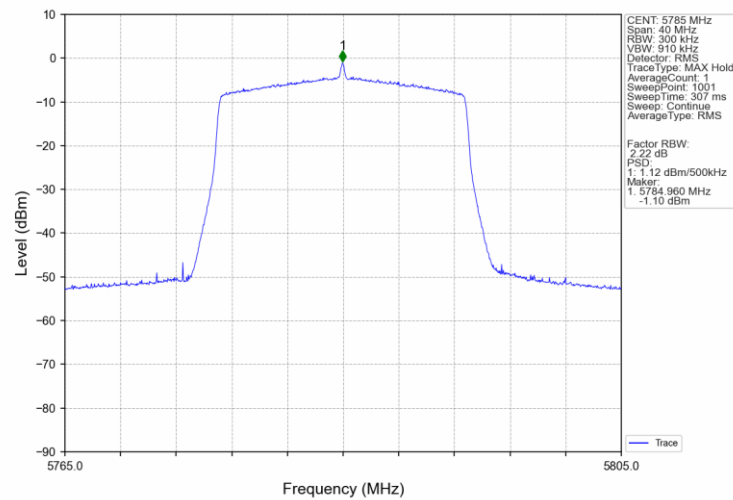


4.2.2 PSD-Band3

802.11ac(VHT20) LCH 5745MHz Ant2 NTN

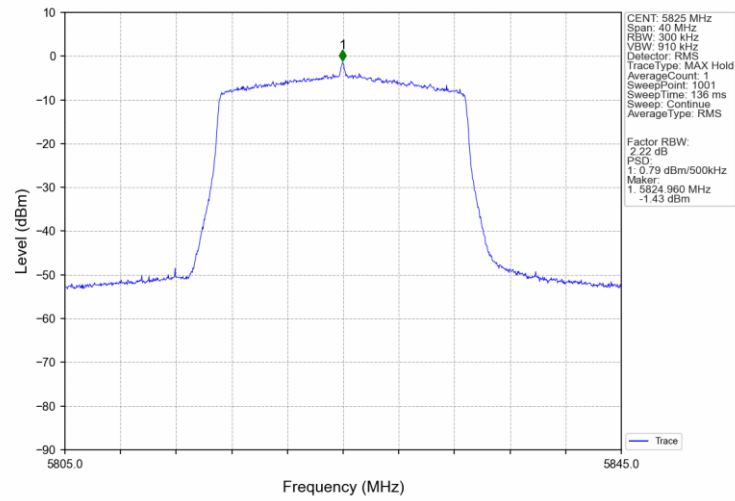


802.11ac(VHT20) MCH 5785MHz Ant2 NTN





802.11ac(VHT20) HCH 5825MHz Ant2 NTNv



MIMO

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			MIMO	Limit	
802.11ac (VHT20)	MIMO	5180	2.61	≤ 11	Pass
		5200	2.72	≤ 11	Pass
		5240	2.53	≤ 11	Pass

4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			MIMO	Limit	
802.11ac (VHT20)	MIMO	5745	2.54	≤ 30	Pass
		5785	2.82	≤ 30	Pass
		5825	2.37	≤ 30	Pass

ANT1

5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant1		Limit (MHz)	Verdict
				Voltage (VAC)	Measured Frequency (MHz)		
802.11ac (VHT20)	SISO	5180	20	102	5180.080	5150 to 5250	Pass
				120	5180.080	5150 to 5250	Pass
				138	5180.040	5150 to 5250	Pass
			-30	120	5180.080	5150 to 5250	Pass
			-20	120	5180.000	5150 to 5250	Pass
			-10	120	5180.100	5150 to 5250	Pass
			0	120	5180.080	5150 to 5250	Pass
			10	120	5180.080	5150 to 5250	Pass
			30	120	5180.040	5150 to 5250	Pass
			40	120	5180.080	5150 to 5250	Pass
			50	120	5180.060	5150 to 5250	Pass
		5200	20	102	5200.120	5150 to 5250	Pass
				120	5200.100	5150 to 5250	Pass
				138	5200.080	5150 to 5250	Pass
			-30	120	5199.980	5150 to 5250	Pass
			-20	120	5200.040	5150 to 5250	Pass
			-10	120	5200.160	5150 to 5250	Pass
			0	120	5200.100	5150 to 5250	Pass
			10	120	5200.140	5150 to 5250	Pass
			30	120	5200.060	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass
			50	120	5200.140	5150 to 5250	Pass
		5240	20	102	5240.080	5150 to 5250	Pass
				120	5240.100	5150 to 5250	Pass
				138	5240.020	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
			-20	120	5240.040	5150 to 5250	Pass
			-10	120	5240.040	5150 to 5250	Pass
			0	120	5240.100	5150 to 5250	Pass
			10	120	5240.100	5150 to 5250	Pass
			30	120	5240.140	5150 to 5250	Pass
			40	120	5240.120	5150 to 5250	Pass
			50	120	5240.080	5150 to 5250	Pass
		5745	20	102	5745.100	5725 to 5850	Pass
				120	5745.080	5725 to 5850	Pass
				138	5745.100	5725 to 5850	Pass
			-30	120	5745.100	5725 to 5850	Pass
			-20	120	5745.080	5725 to 5850	Pass
			-10	120	5745.060	5725 to 5850	Pass
			0	120	5745.080	5725 to 5850	Pass
			10	120	5745.120	5725 to 5850	Pass
			30	120	5745.080	5725 to 5850	Pass
			40	120	5745.040	5725 to 5850	Pass
			50	120	5745.060	5725 to 5850	Pass
		5785	20	102	5785.060	5725 to 5850	Pass
				120	5785.100	5725 to 5850	Pass

				138	5785.100	5725 to 5850	Pass
			-30	120	5785.080	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
			-10	120	5785.060	5725 to 5850	Pass
			0	120	5785.040	5725 to 5850	Pass
			10	120	5785.060	5725 to 5850	Pass
			30	120	5785.080	5725 to 5850	Pass
			40	120	5785.140	5725 to 5850	Pass
			50	120	5785.060	5725 to 5850	Pass
		5825	20	102	5825.080	5725 to 5850	Pass
				120	5825.040	5725 to 5850	Pass
				138	5825.080	5725 to 5850	Pass
			-30	120	5825.060	5725 to 5850	Pass
			-20	120	5825.040	5725 to 5850	Pass
			-10	120	5825.020	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass
			10	120	5825.060	5725 to 5850	Pass
			30	120	5825.100	5725 to 5850	Pass
			40	120	5825.040	5725 to 5850	Pass
			50	120	5825.040	5725 to 5850	Pass

ANT2

5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant2		Limit (MHz)	Verdict
				Voltage (VAC)	Measured Frequency (MHz)		
802.11ac (VHT20)	SISO	5180	20	102	5180.040	5150 to 5250	Pass
				120	5180.080	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5180.020	5150 to 5250	Pass
			-10	120	5180.040	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.040	5150 to 5250	Pass
			30	120	5180.020	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass
			50	120	5180.020	5150 to 5250	Pass
		5200	20	102	5200.020	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.080	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.040	5150 to 5250	Pass
			0	120	5200.040	5150 to 5250	Pass
			10	120	5200.040	5150 to 5250	Pass
			30	120	5200.000	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5200.040	5150 to 5250	Pass
		5240	20	102	5240.040	5150 to 5250	Pass
				120	5240.020	5150 to 5250	Pass
				138	5240.060	5150 to 5250	Pass
			-30	120	5240.000	5150 to 5250	Pass
			-20	120	5240.040	5150 to 5250	Pass
			-10	120	5240.020	5150 to 5250	Pass
			0	120	5240.040	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass
			30	120	5240.040	5150 to 5250	Pass
			40	120	5240.080	5150 to 5250	Pass
			50	120	5240.060	5150 to 5250	Pass
		5745	20	102	5745.080	5725 to 5850	Pass
				120	5745.000	5725 to 5850	Pass
				138	5745.040	5725 to 5850	Pass
			-30	120	5744.980	5725 to 5850	Pass
			-20	120	5745.000	5725 to 5850	Pass
			-10	120	5745.040	5725 to 5850	Pass
			0	120	5744.960	5725 to 5850	Pass
			10	120	5745.040	5725 to 5850	Pass
			30	120	5745.020	5725 to 5850	Pass
			40	120	5744.980	5725 to 5850	Pass
			50	120	5745.000	5725 to 5850	Pass
		5785	20	102	5785.020	5725 to 5850	Pass
				120	5785.000	5725 to 5850	Pass

				138	5785.000	5725 to 5850	Pass
			-30	120	5785.020	5725 to 5850	Pass
			-20	120	5785.040	5725 to 5850	Pass
			-10	120	5785.020	5725 to 5850	Pass
			0	120	5785.020	5725 to 5850	Pass
			10	120	5785.020	5725 to 5850	Pass
			30	120	5785.040	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.000	5725 to 5850	Pass
		5825	20	102	5825.020	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
				138	5825.020	5725 to 5850	Pass
			-30	120	5825.000	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.000	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5825.020	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5825.020	5725 to 5850	Pass
			50	120	5825.040	5725 to 5850	Pass