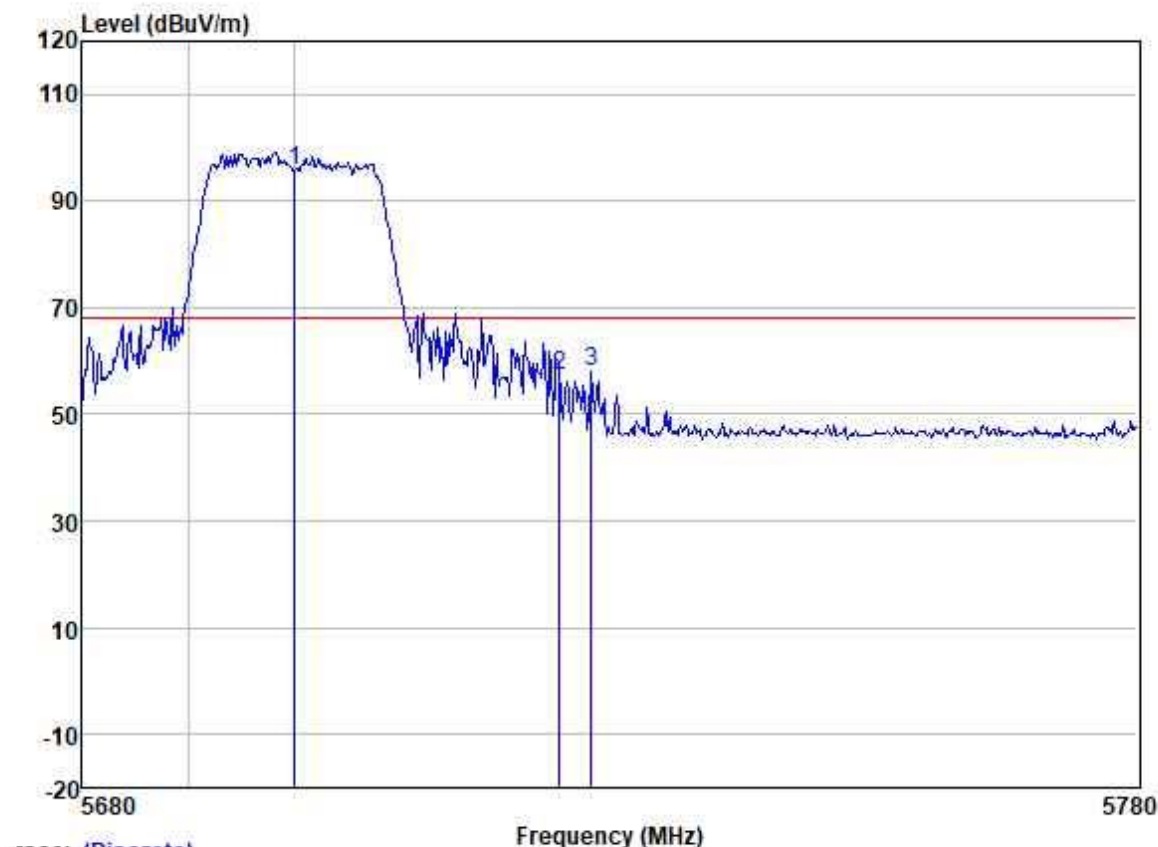


Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

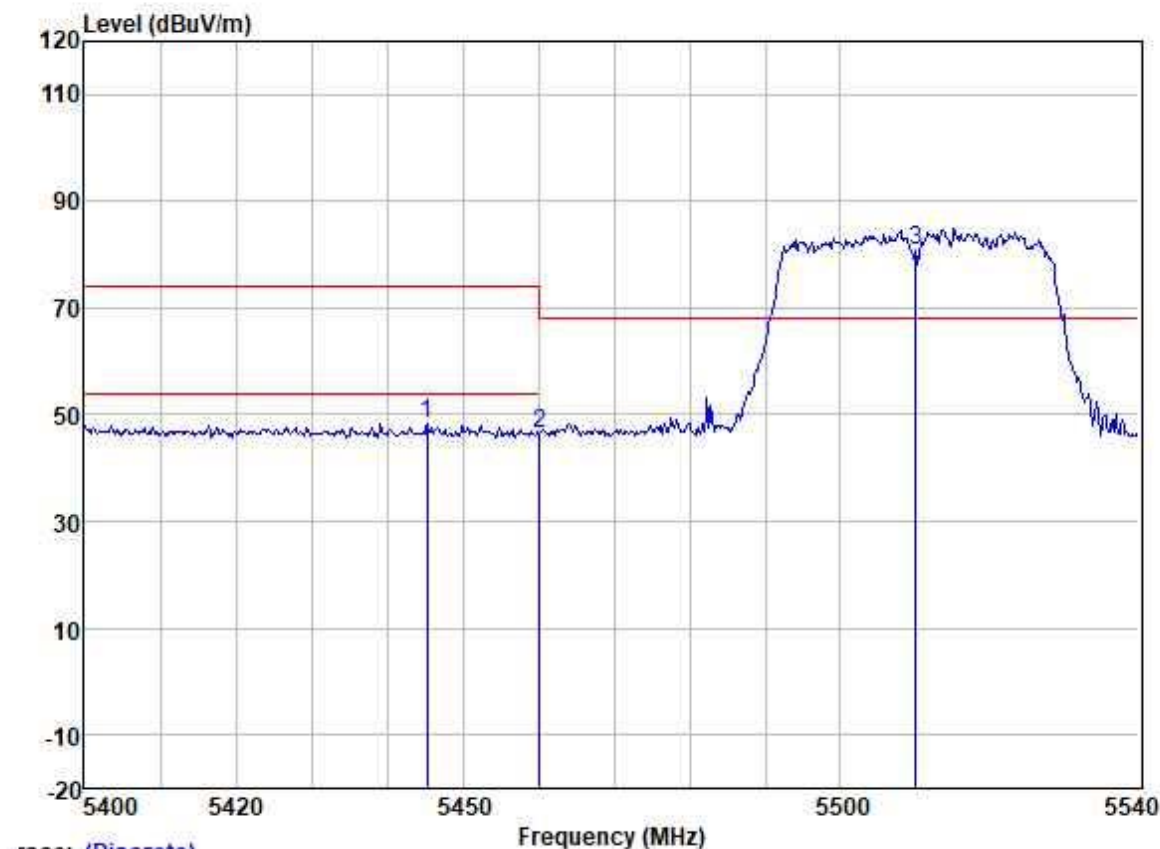


Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 5700.000	94.30	32.64	5.70	36.78	95.86	68.20	27.66	HORIZONTAL	peak
2 5725.000	55.87	32.65	5.72	36.78	57.46	68.20	-10.74	HORIZONTAL	peak
3 5728.082	56.53	32.65	5.72	36.78	58.12	68.20	-10.08	HORIZONTAL	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

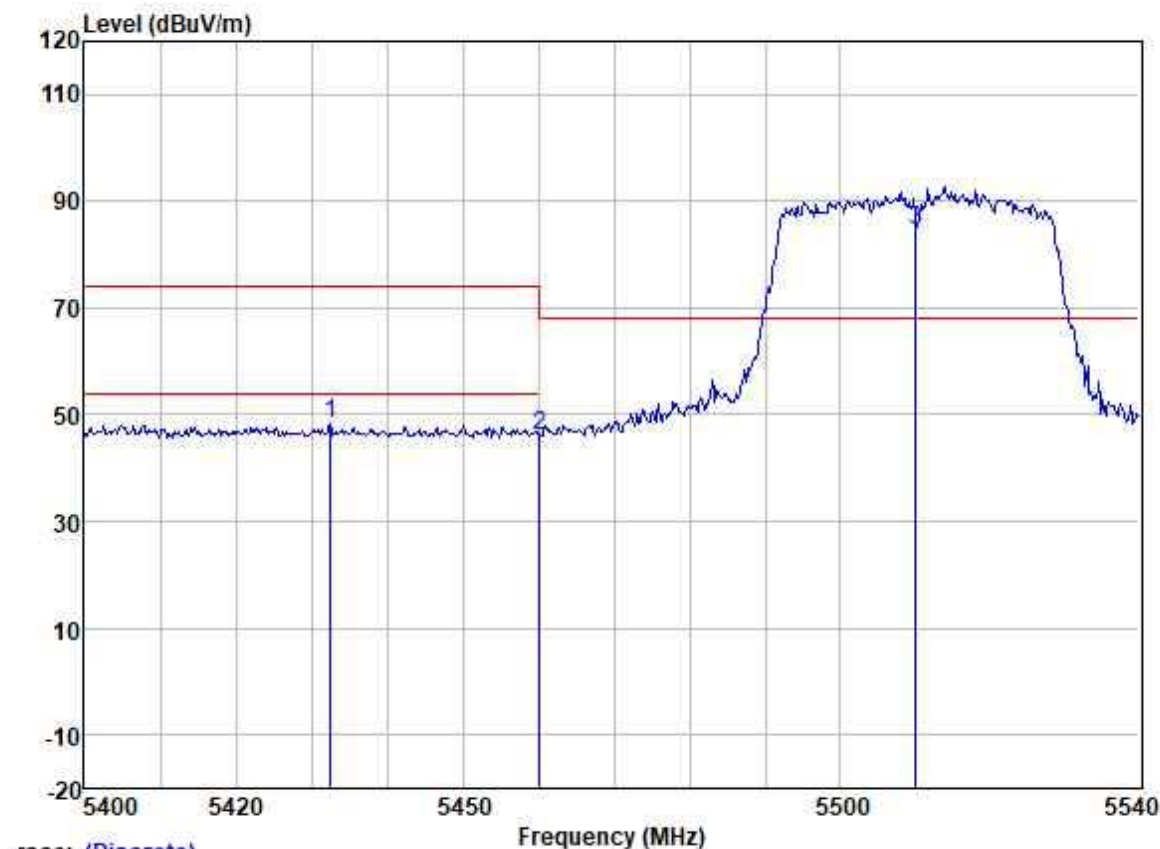


Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5445.107	46.71	32.74	5.60	36.76	48.29	74.00	-25.71	VERTICAL peak
2	5460.000	44.82	32.71	5.61	36.76	46.38	68.20	-21.82	VERTICAL peak
3 *	5510.000	79.32	32.61	5.63	36.77	80.79	68.20	12.59	VERTICAL peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



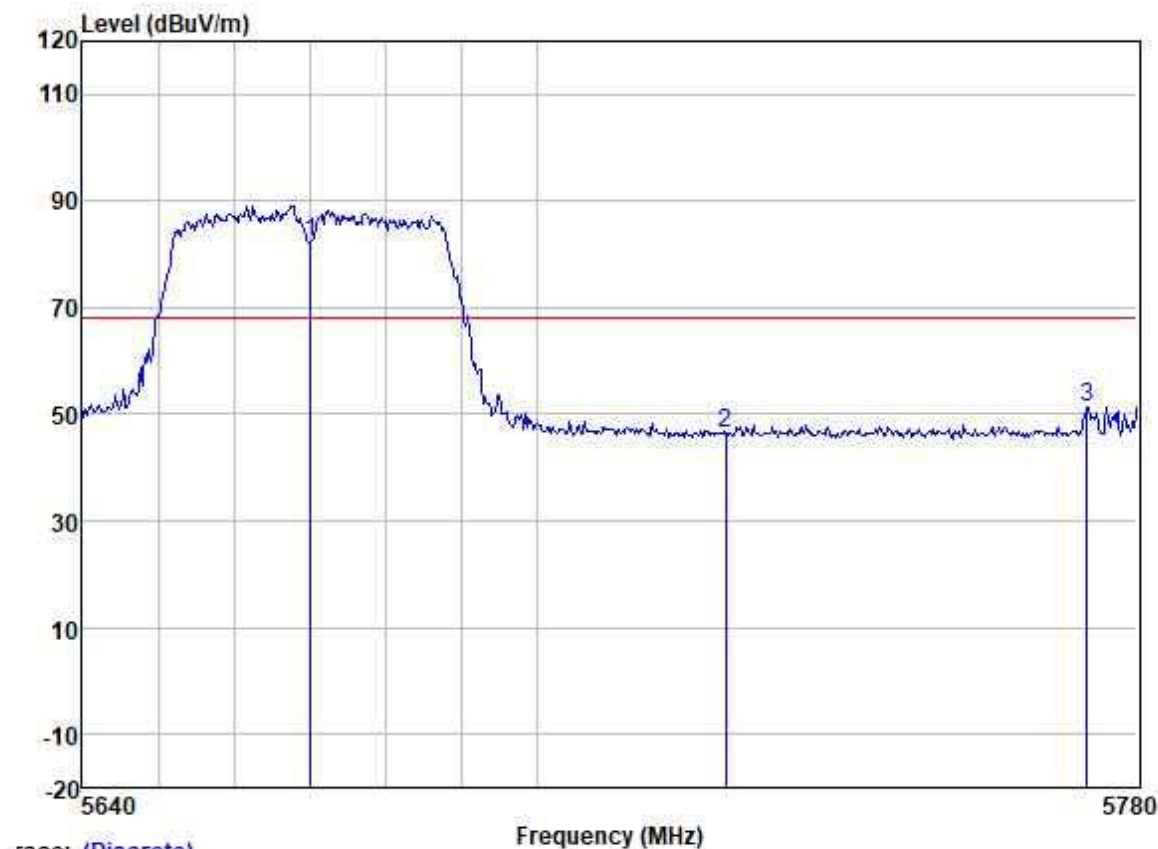
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5432.301	46.62	32.74	5.60	36.76	48.20	74.00	-25.80	HORIZONTAL peak
2	5460.000	44.54	32.71	5.61	36.76	46.10	68.20	-22.10	HORIZONTAL peak
3 *	5510.000	83.20	32.61	5.63	36.77	84.67	68.20	16.47	HORIZONTAL peak





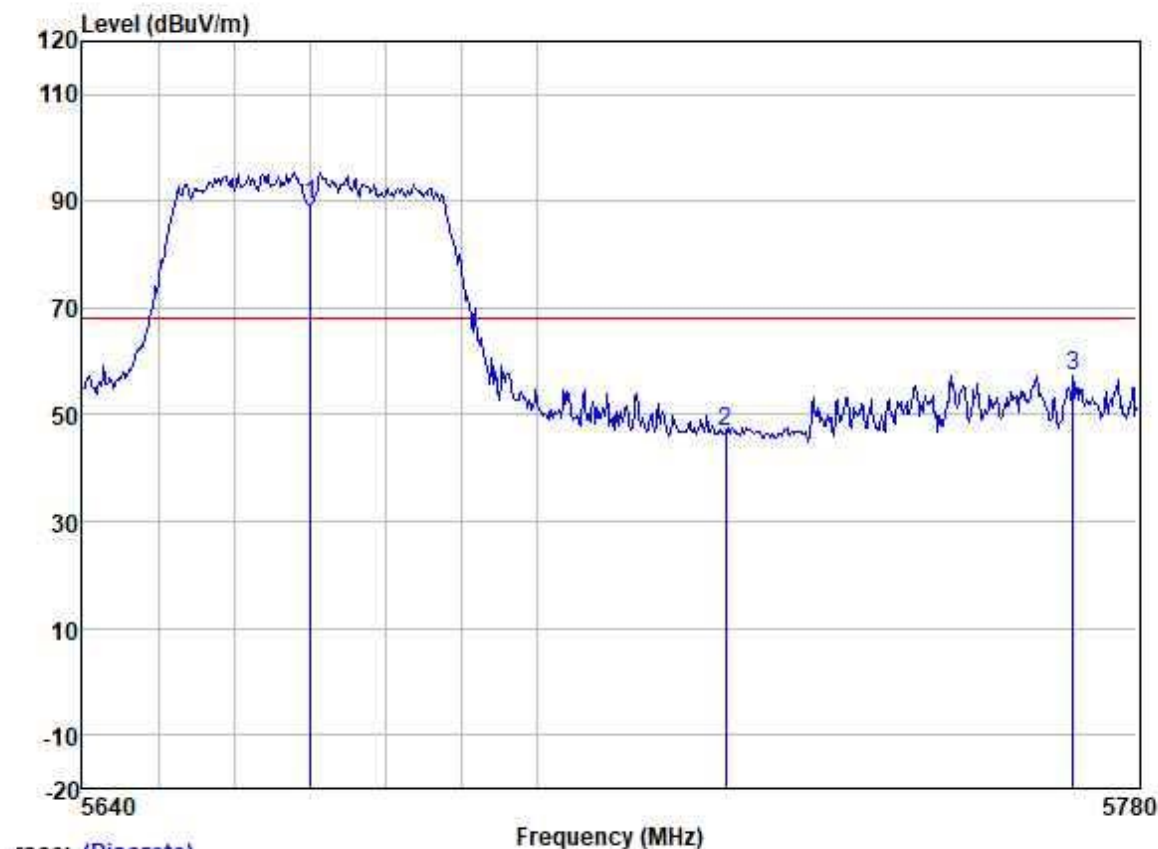
Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 5670.000	80.92	32.64	5.69	36.78	82.47	68.20	14.27	VERTICAL	peak
2 5725.000	45.03	32.65	5.72	36.78	46.62	68.20	-21.58	VERTICAL	peak
3 5773.201	49.75	32.66	5.76	36.79	51.38	68.20	-16.82	VERTICAL	peak

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

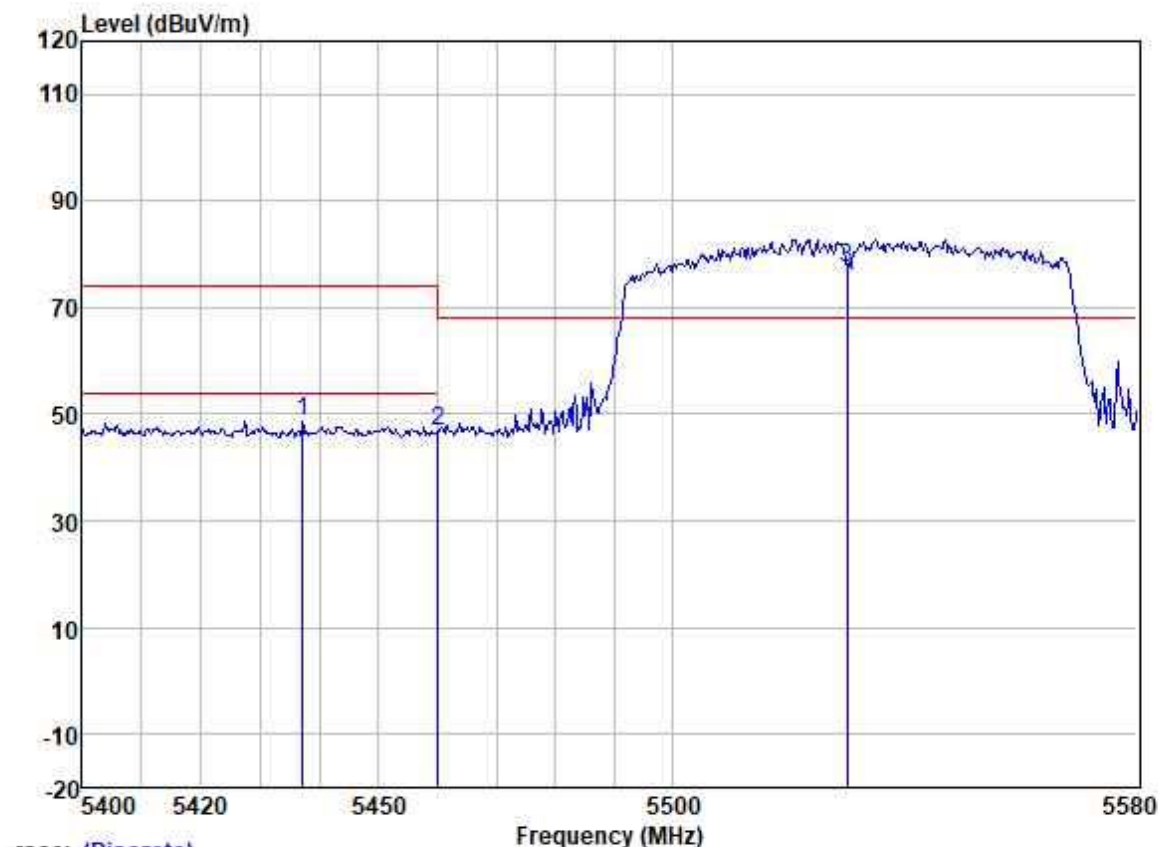


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5670.000	88.00	32.64	5.69	36.78	89.55	68.20	21.35	HORIZONTAL	peak
2	5725.000	45.29	32.65	5.72	36.78	46.88	68.20	-21.32	HORIZONTAL	peak
3	5771.361	55.54	32.66	5.75	36.79	57.16	68.20	-11.04	HORIZONTAL	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



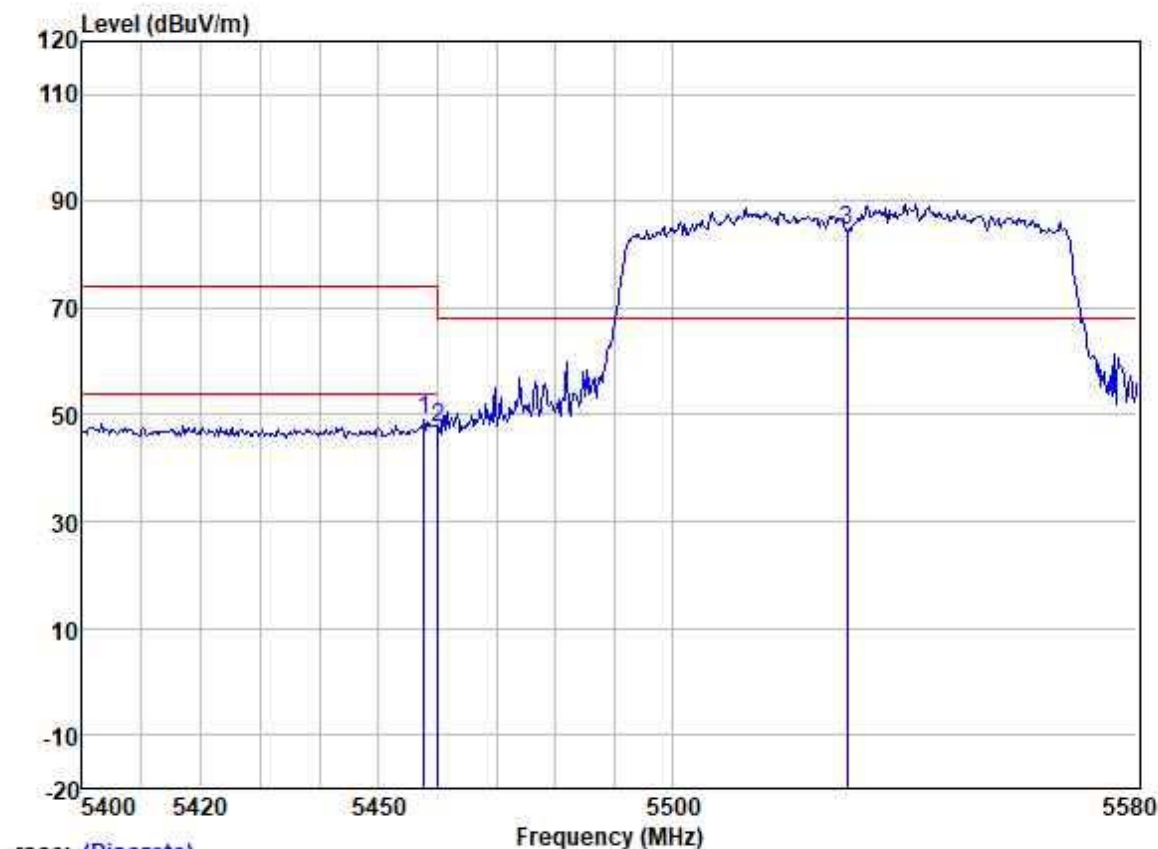
Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5437.134	47.06	32.74	5.60	36.76	48.64	74.00	-25.36	VERTICAL peak
2	5460.000	45.30	32.71	5.61	36.76	46.86	68.20	-21.34	VERTICAL peak
3 *	5530.000	75.98	32.61	5.64	36.77	77.46	68.20	9.26	VERTICAL peak





Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

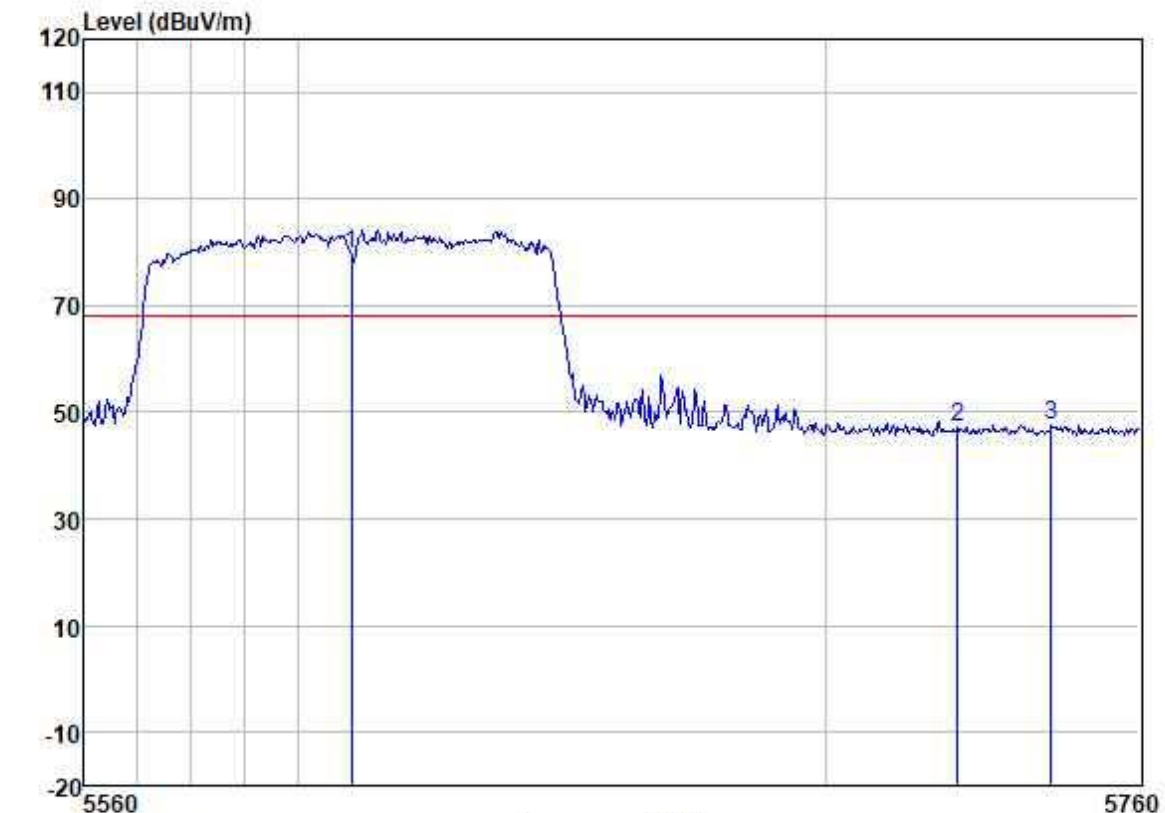


Trace: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5457.675	47.57	32.71	5.61	36.76	49.13	74.00	-24.87 HORIZONTAL
2	5460.000	46.14	32.71	5.61	36.76	47.70	68.20	-20.50 HORIZONTAL
3 *	5530.000	82.87	32.61	5.64	36.77	84.35	68.20	16.15 HORIZONTAL



Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



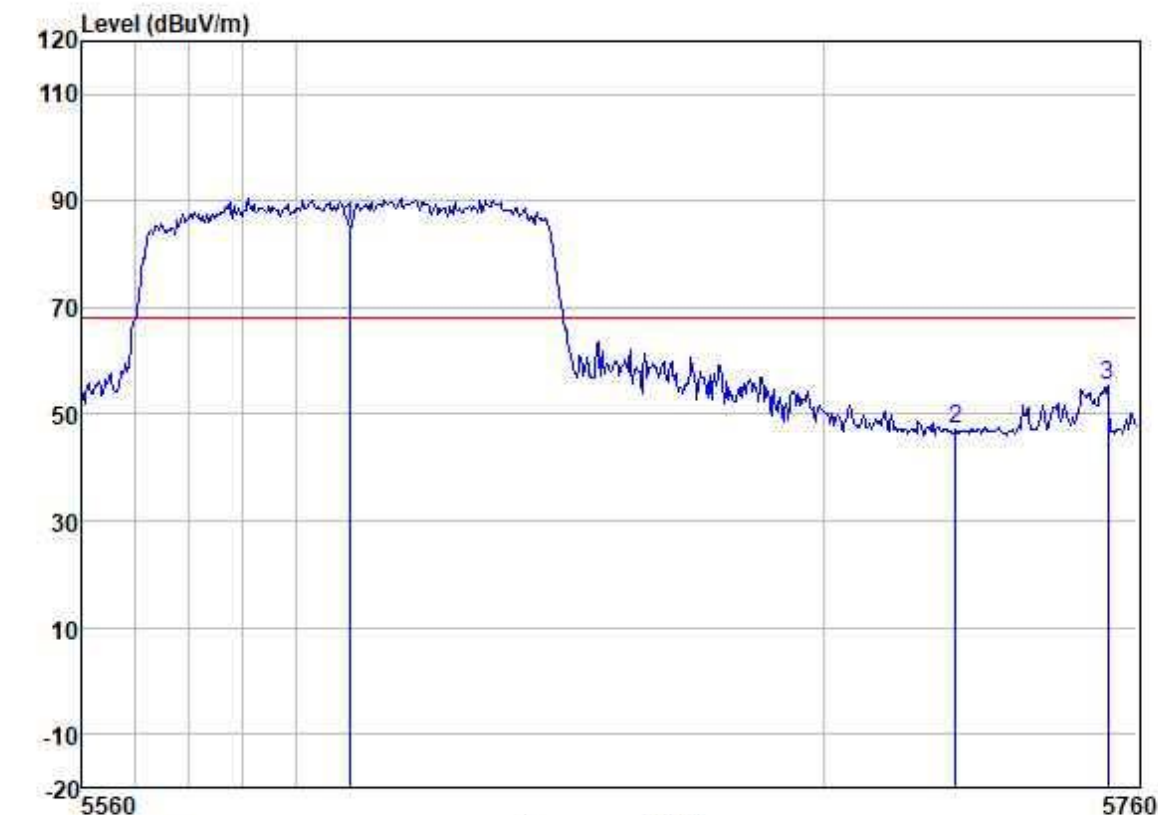
Trace: (Discrete)

Frequency (MHz)										
ace: (Discrete)										
Freq	ReadAntenna	Cable	Preamp	Limit	Over			Pol/Phase	Remark	
	Level	Factor	Loss	Factor	Level	Line				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		dB		
1 *	5610.000	78.07	32.63	5.67	36.78	79.59	68.20	11.39	VERTICAL	peak
2	5725.000	45.76	32.65	5.72	36.78	47.35	68.20	-20.85	VERTICAL	peak
3	5743.130	45.90	32.65	5.74	36.79	47.50	68.20	-20.70	VERTICAL	peak





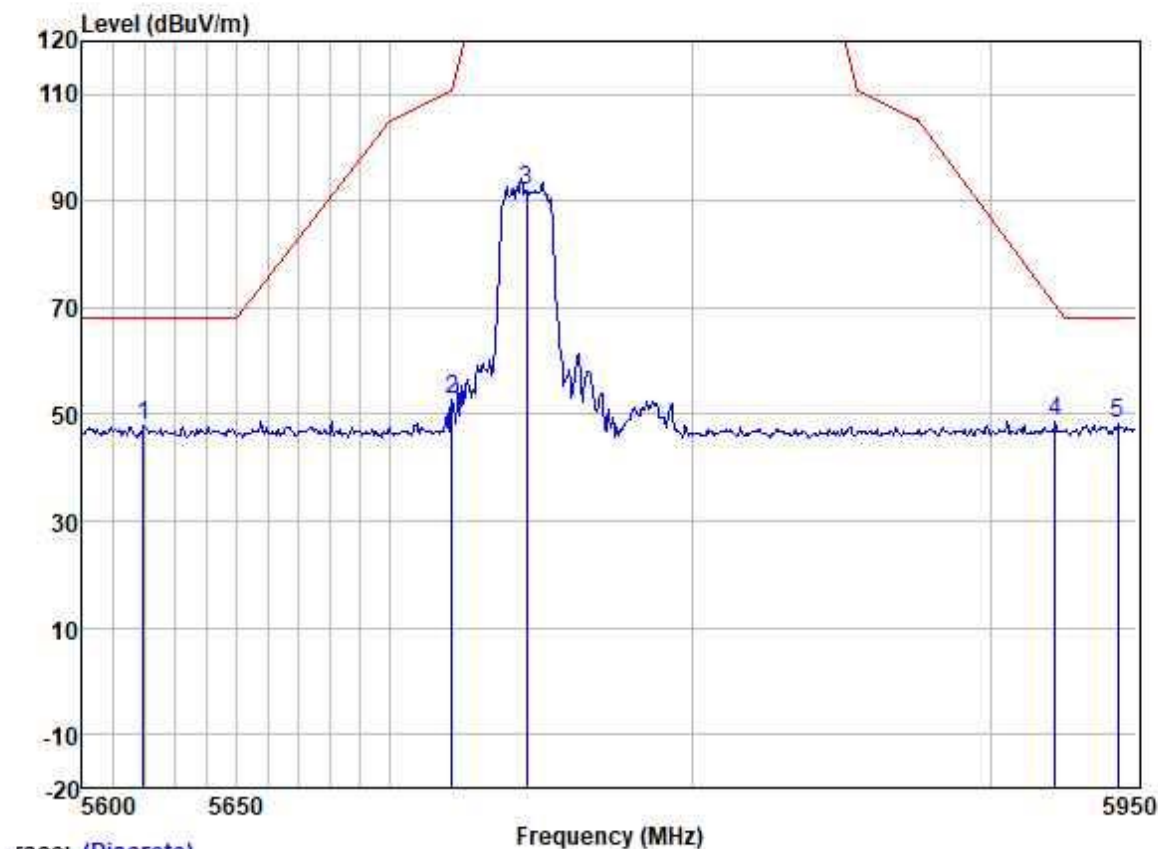
Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Trace: (Discrete)

		Frequency (MHz)								
ace: (Discrete)	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	5610.000	83.72	32.63	5.67	36.78	85.24	68.20	17.04	HORIZONTAL peak	
2	5725.000	45.52	32.65	5.72	36.78	47.11	68.20	-21.09	HORIZONTAL peak	
3	5754.303	53.83	32.65	5.74	36.79	55.43	68.20	-12.77	HORIZONTAL peak	

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

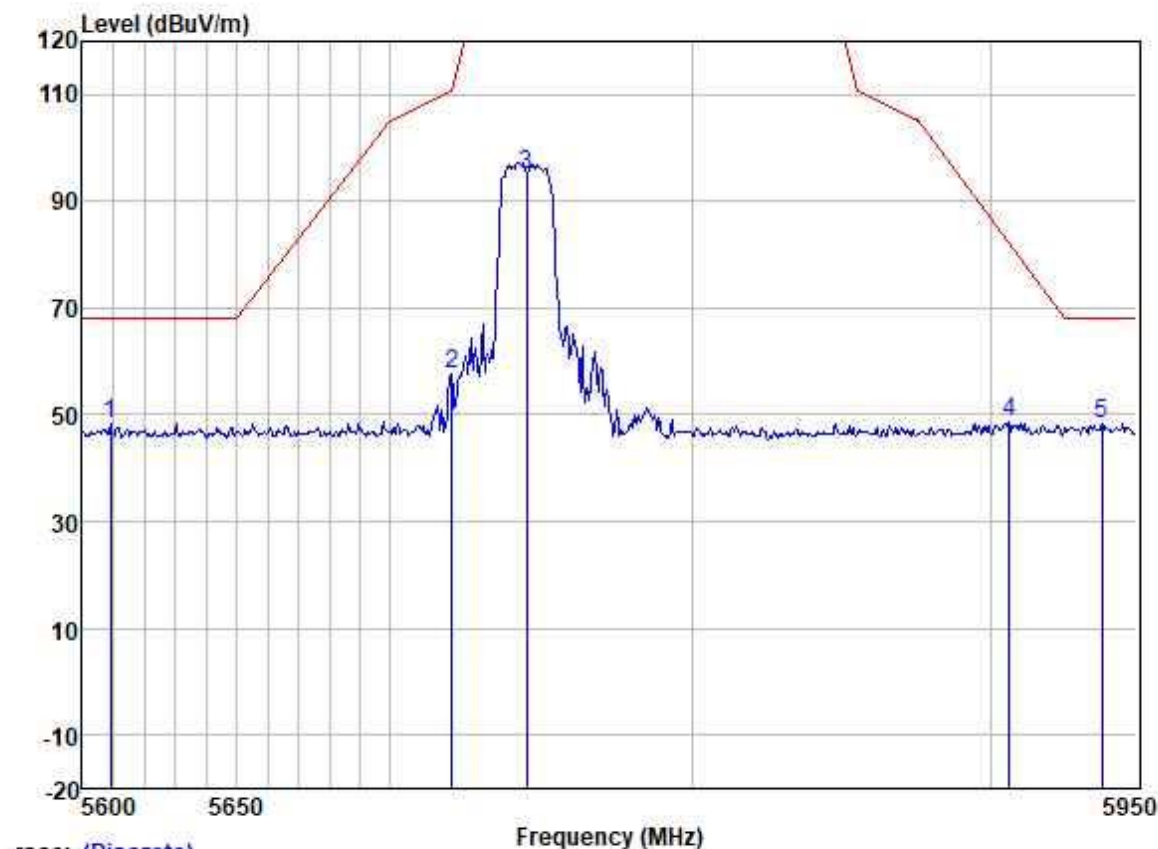


Trace: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5619.726	46.38	32.63	5.67	36.78	47.90	68.20	-20.30	VERTICAL peak
2	5720.094	51.39	32.65	5.71	36.78	52.97	111.01	-58.04	VERTICAL peak
3	5745.000	90.28	32.65	5.74	36.79	91.88	125.20	-33.32	VERTICAL peak
4	5921.931	46.92	32.69	5.81	36.80	48.62	70.47	-21.85	VERTICAL peak
5	5943.511	46.42	32.69	5.83	36.80	48.14	68.20	-20.06	VERTICAL peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5609.174	46.78	32.63	5.67	36.78	48.30	68.20	-19.90	HORIZONTAL	peak
2	5720.094	56.09	32.65	5.71	36.78	57.67	111.01	-53.34	HORIZONTAL	peak
3	5745.000	93.35	32.65	5.74	36.79	94.95	125.20	-30.25	HORIZONTAL	peak
4	5906.513	46.85	32.69	5.81	36.79	48.56	81.87	-33.31	HORIZONTAL	peak
5	5938.108	46.57	32.69	5.82	36.80	48.28	68.20	-19.92	HORIZONTAL	peak

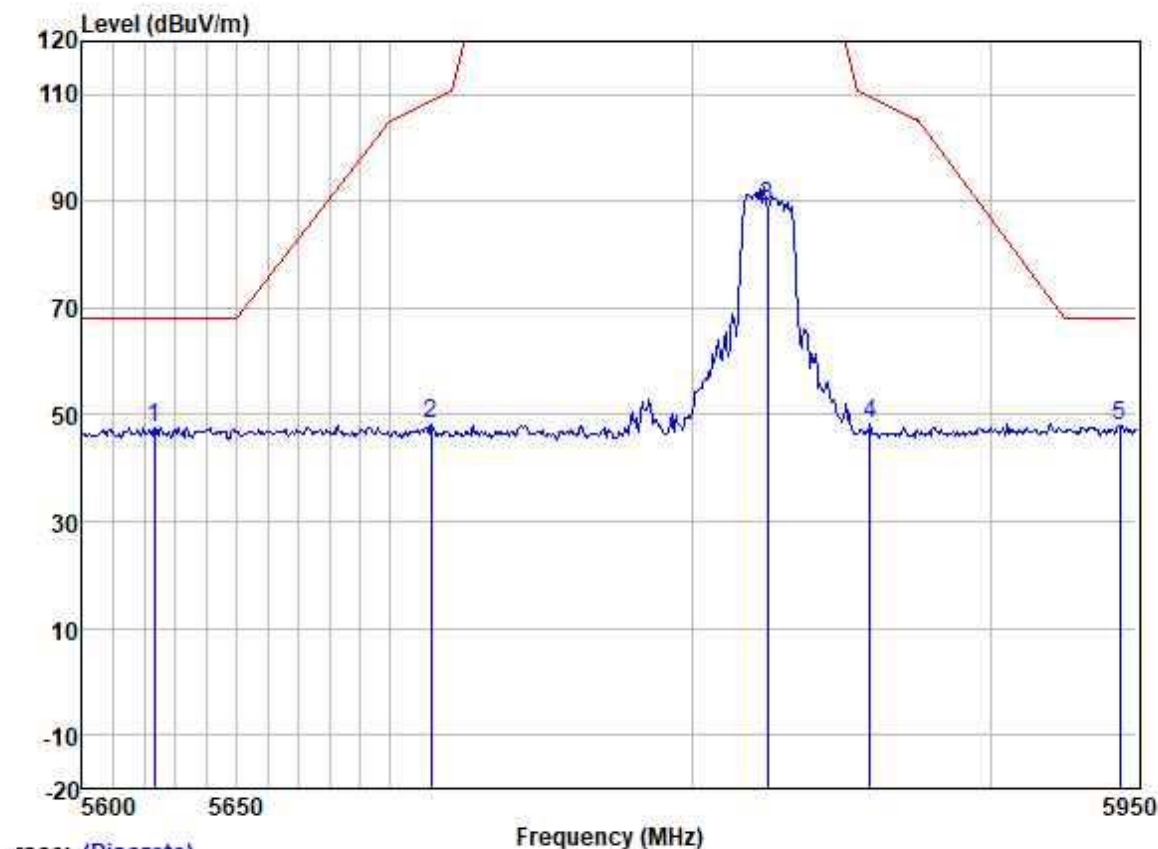


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

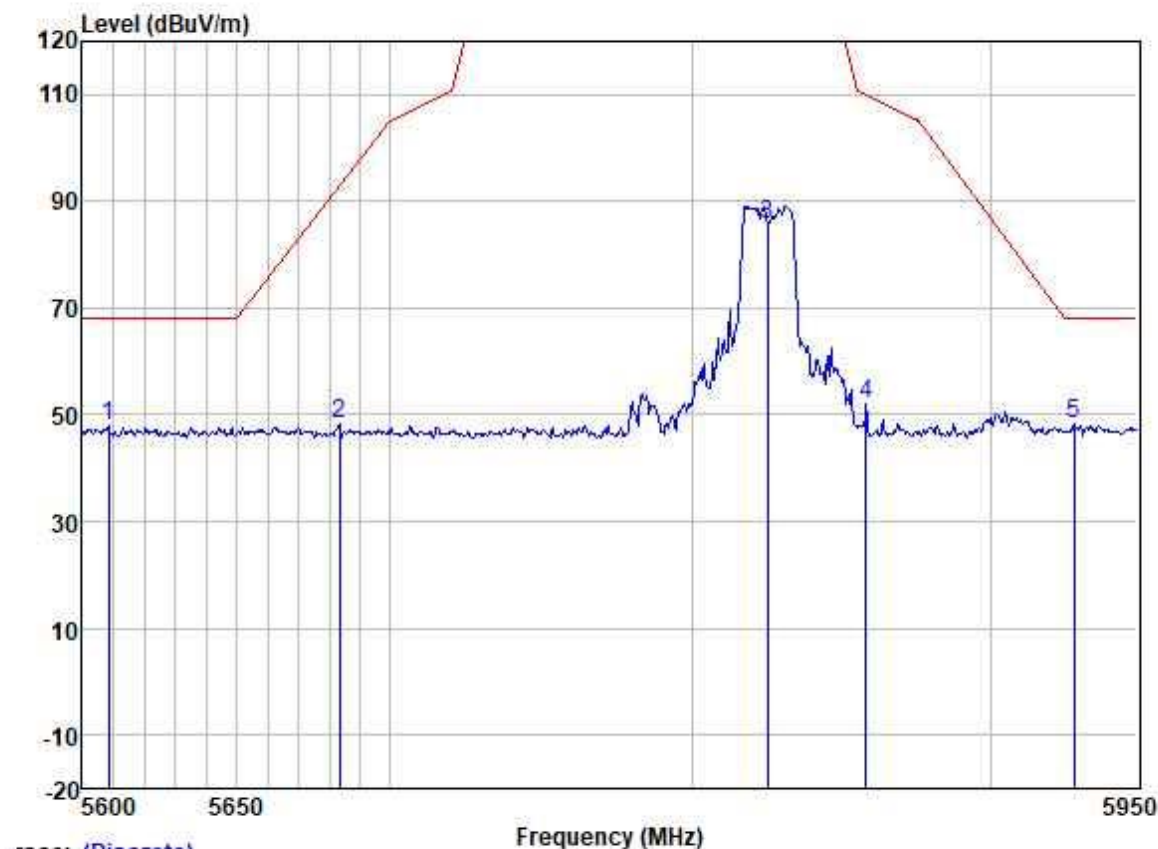


Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5623.133	46.03	32.63	5.67	36.78	47.55	68.20	-20.65	VERTICAL peak
2	5713.509	46.75	32.65	5.71	36.78	48.33	108.98	-60.65	VERTICAL peak
3	5825.000	87.27	32.67	5.78	36.79	88.93	125.20	-36.27	VERTICAL peak
4	5859.435	46.58	32.68	5.80	36.79	48.27	109.56	-61.29	VERTICAL peak
5	5944.231	46.31	32.69	5.83	36.80	48.03	68.20	-20.17	VERTICAL peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

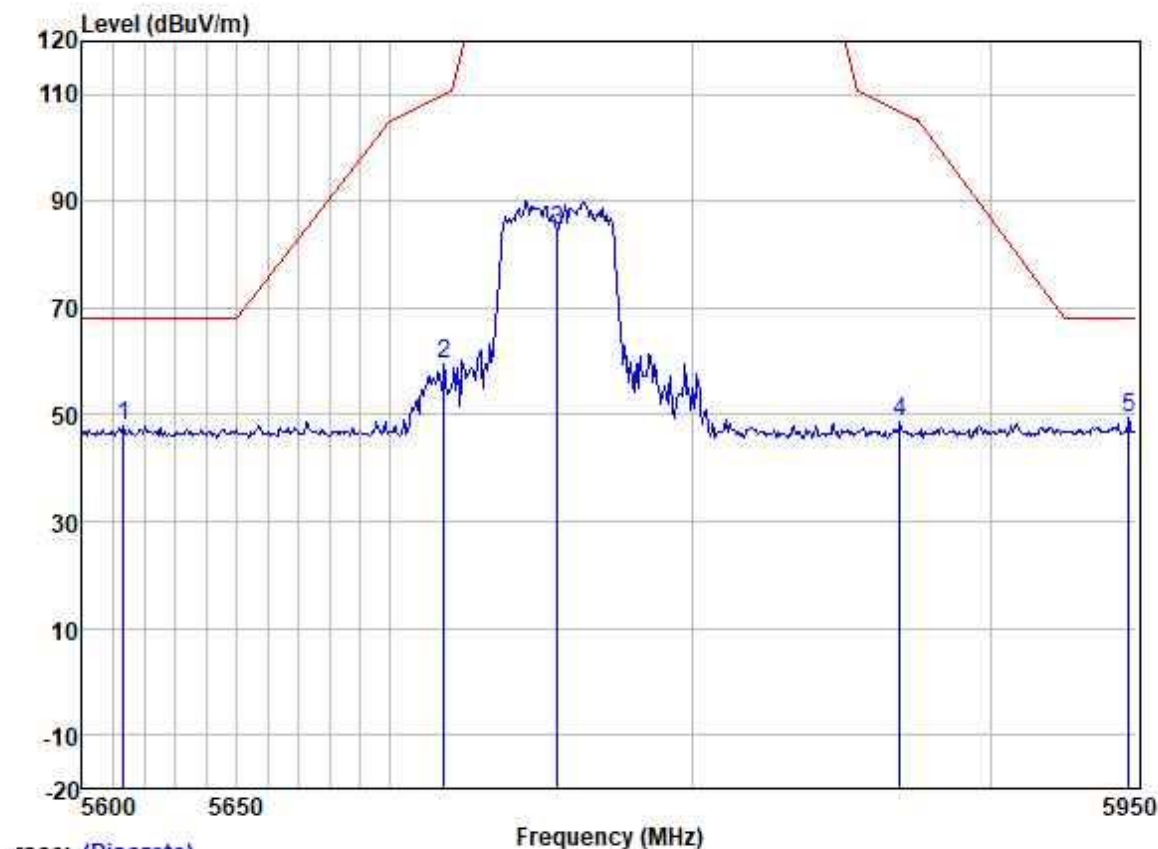


Trace: (Discrete)

		ReadAntenna	Cable	Preamp		Limit	Over		
	Freq	Level	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5608.494	46.42	32.63	5.67	36.78	47.94	68.20	-20.26	HORIZONTAL peak
2	5683.453	46.75	32.64	5.70	36.78	48.31	92.99	-44.68	HORIZONTAL peak
3	5825.000	84.12	32.67	5.78	36.79	85.78	125.20	-39.42	HORIZONTAL peak
4	5858.014	50.27	32.68	5.80	36.79	51.96	109.95	-57.99	HORIZONTAL peak
5	5928.396	46.44	32.69	5.82	36.80	48.15	68.20	-20.05	HORIZONTAL peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



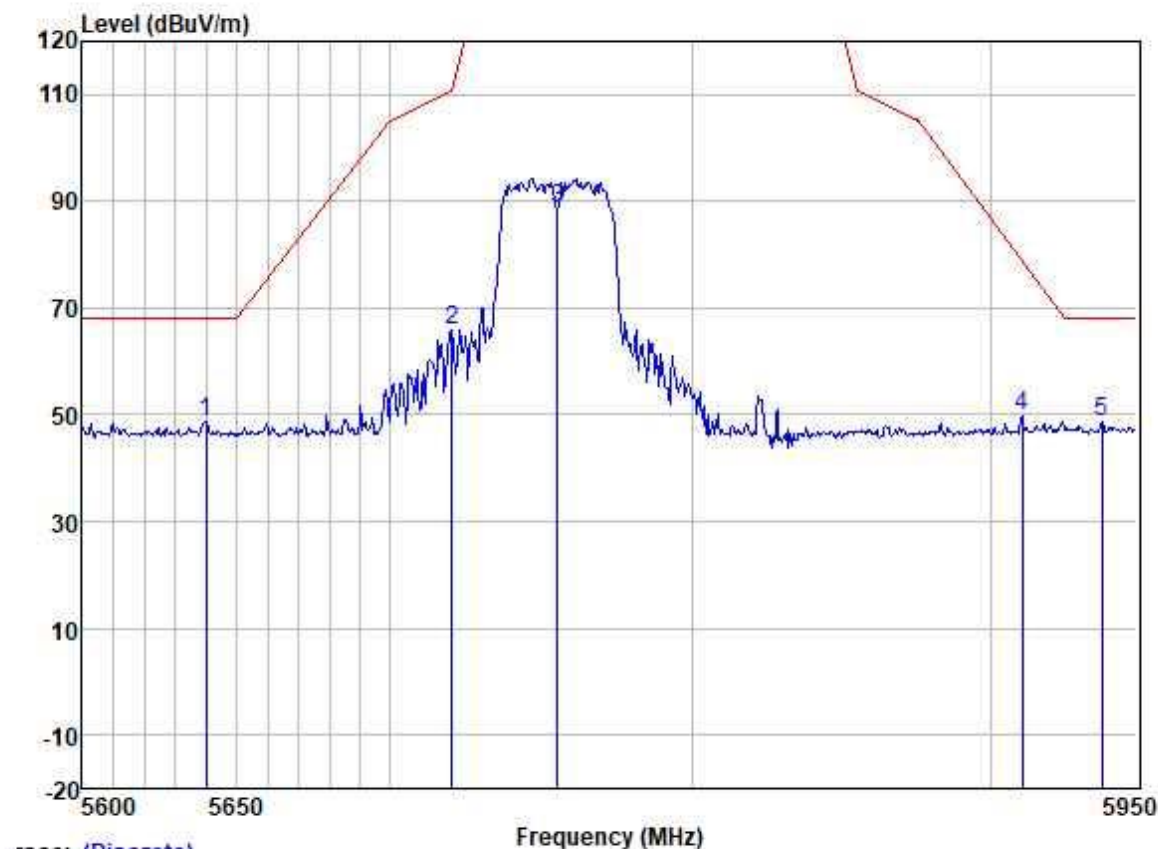
Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5613.256	46.52	32.63	5.67	36.78	48.04	68.20	-20.16	VERTICAL peak
2	5717.667	57.98	32.65	5.71	36.78	59.56	110.15	-50.59	VERTICAL peak
3	5755.000	82.81	32.65	5.74	36.79	84.41	125.20	-40.79	VERTICAL peak
4	5869.390	46.83	32.68	5.80	36.79	48.52	106.77	-58.25	VERTICAL peak
5	5947.115	47.81	32.69	5.83	36.80	49.53	68.20	-18.67	VERTICAL peak





Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

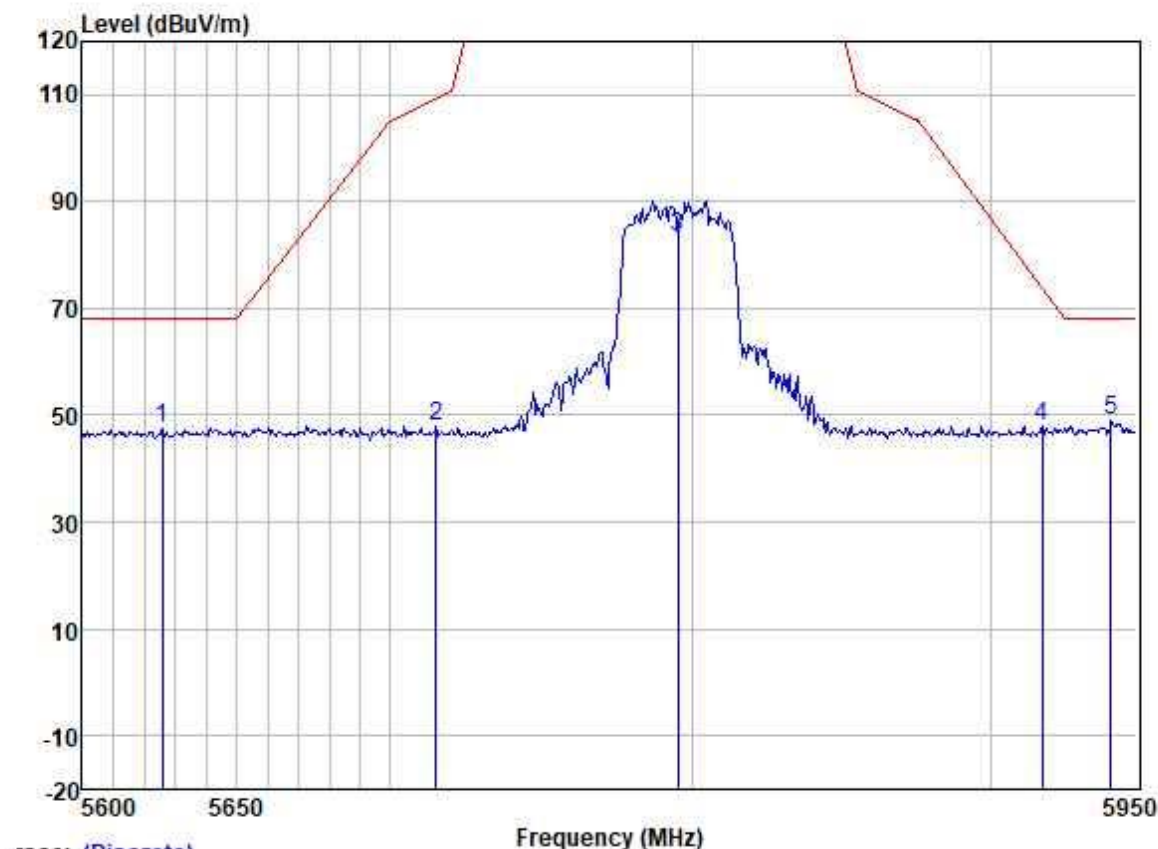


Trace: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5639.862	47.12	32.63	5.67	36.78	48.64	68.20	-19.56	HORIZONTAL	peak
2	5720.094	64.17	32.65	5.71	36.78	65.75	111.01	-45.26	HORIZONTAL	peak
3	5755.000	87.14	32.65	5.74	36.79	88.74	125.20	-36.46	HORIZONTAL	peak
4	5910.812	48.04	32.69	5.81	36.80	49.74	78.69	-28.95	HORIZONTAL	peak
5	5938.108	46.95	32.69	5.82	36.80	48.66	68.20	-19.54	HORIZONTAL	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

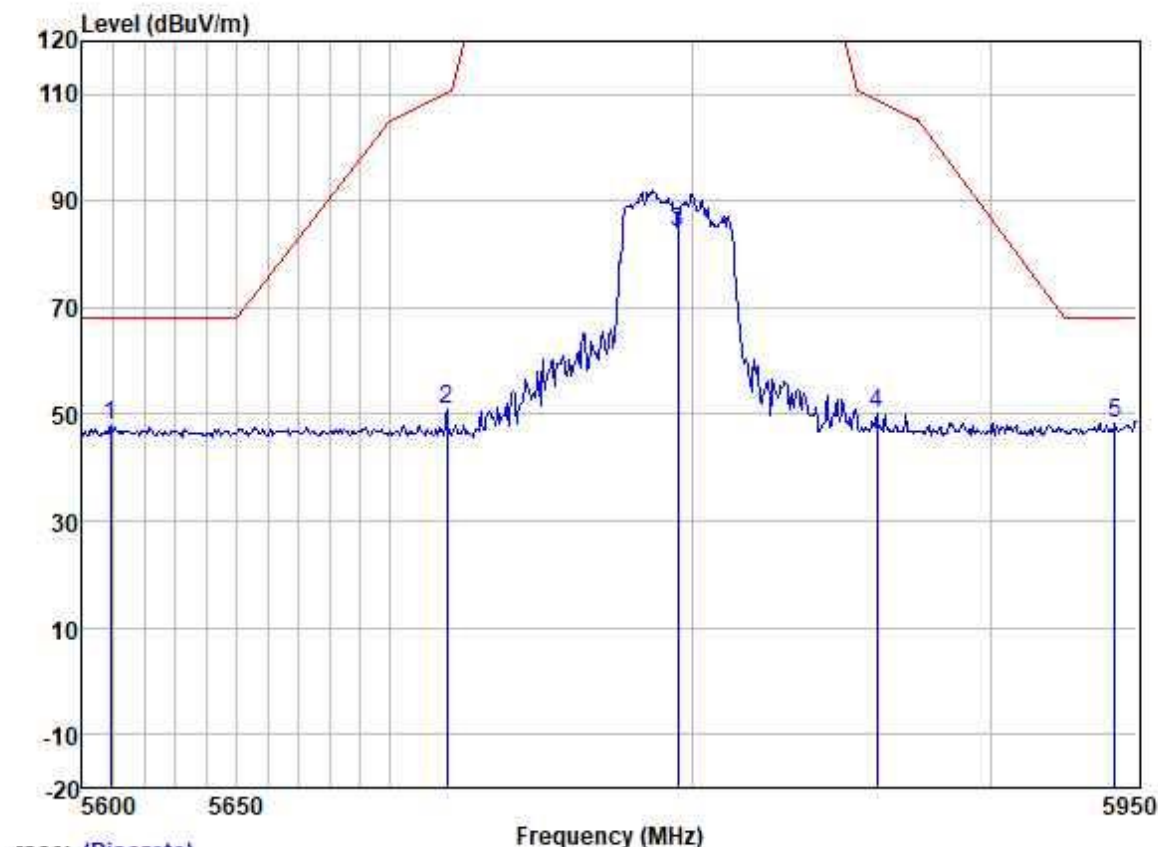


Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5625.861	46.11	32.63	5.67	36.78	47.63	68.20	-20.57	VERTICAL	peak
2	5714.895	46.52	32.65	5.71	36.78	48.10	109.37	-61.27	VERTICAL	peak
3	5795.000	81.91	32.67	5.77	36.79	83.56	125.20	-41.64	VERTICAL	peak
4	5917.624	46.39	32.69	5.81	36.80	48.09	73.65	-25.56	VERTICAL	peak
5	5940.989	47.38	32.69	5.82	36.80	49.09	68.20	-19.11	VERTICAL	peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5609.174	46.41	32.63	5.67	36.78	47.93	68.20	-20.27	HORIZONTAL	peak
2	5718.707	49.52	32.65	5.71	36.78	51.10	110.44	-59.34	HORIZONTAL	peak
3	5795.000	82.61	32.67	5.77	36.79	84.26	125.20	-40.94	HORIZONTAL	peak
4	5861.567	48.65	32.68	5.80	36.79	50.34	108.96	-58.62	HORIZONTAL	peak
5	5942.430	46.53	32.69	5.83	36.80	48.25	68.20	-19.95	HORIZONTAL	peak

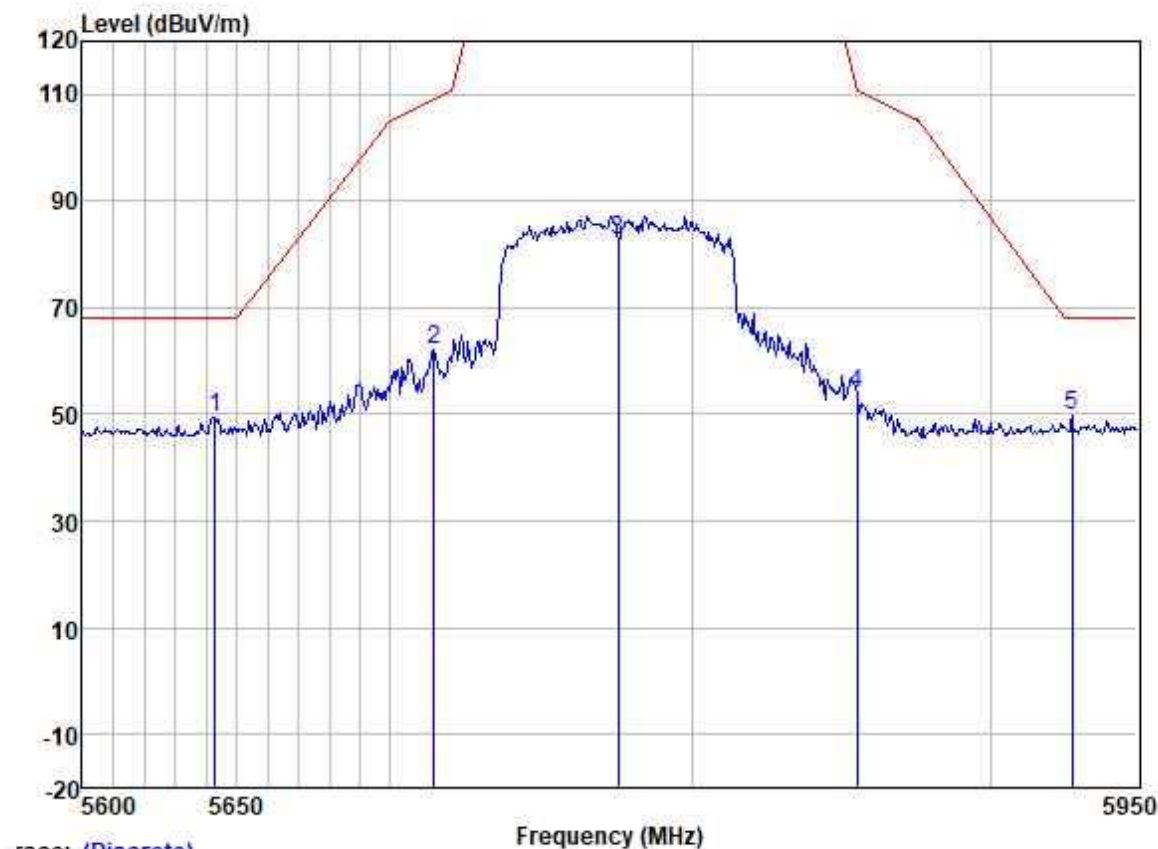


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

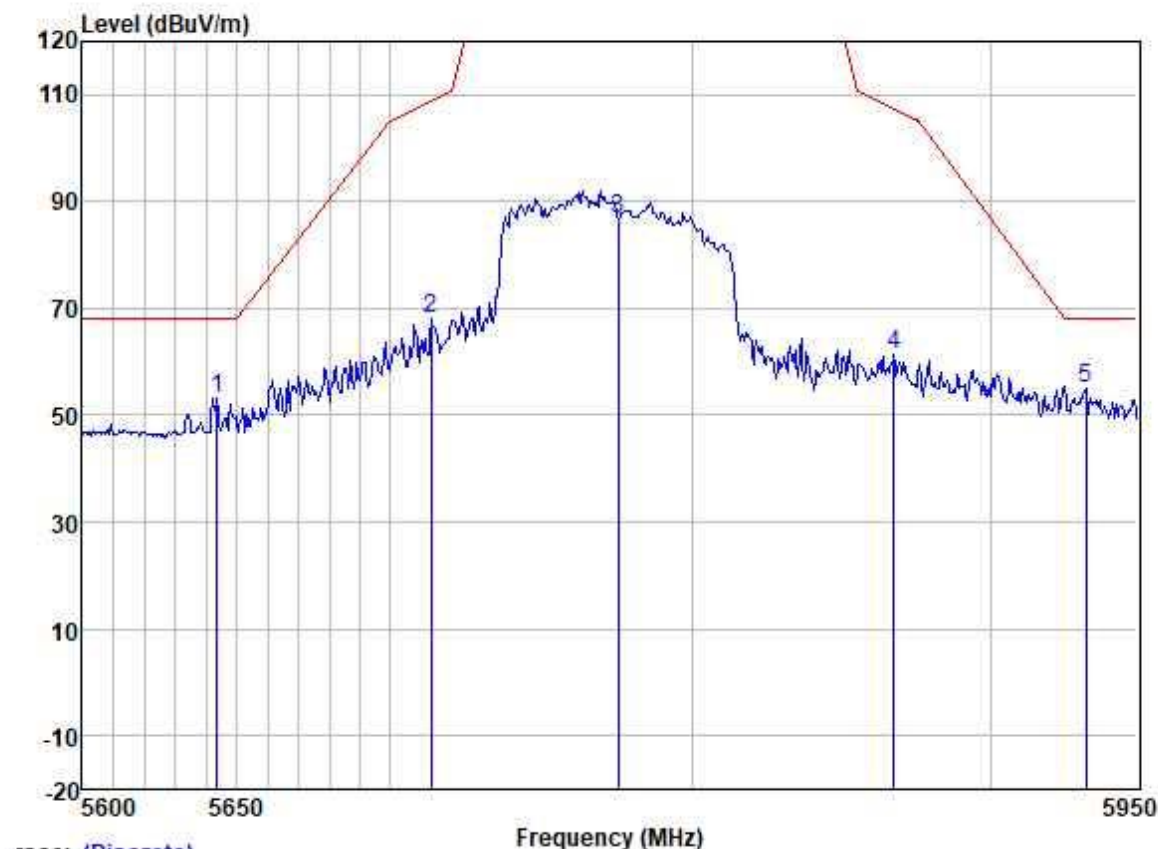
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5642.940	47.92	32.63	5.68	36.78	49.45	68.20	-18.75	VERTICAL peak
2	5714.202	60.58	32.65	5.71	36.78	62.16	109.18	-47.02	VERTICAL peak
3	5775.000	81.12	32.66	5.76	36.79	82.75	125.20	-42.45	VERTICAL peak
4	5854.819	52.30	32.68	5.79	36.79	53.98	111.21	-57.23	VERTICAL peak
5	5927.678	48.06	32.69	5.82	36.80	49.77	68.20	-18.43	VERTICAL peak



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5643.625	51.56	32.63	5.68	36.78	53.09	68.20	-15.11	HORIZONTAL	peak
2	5713.509	66.56	32.65	5.71	36.78	68.14	108.98	-40.84	HORIZONTAL	peak
3	5775.000	85.32	32.66	5.76	36.79	86.95	125.20	-38.25	HORIZONTAL	peak
4	5867.255	59.65	32.68	5.80	36.79	61.34	107.37	-46.03	HORIZONTAL	peak
5	5932.351	53.25	32.69	5.82	36.80	54.96	68.20	-13.24	HORIZONTAL	peak



### 7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

#### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C

Humidity: 50.7 % RH

Atmospheric Pressure: 1020 mbar

#### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

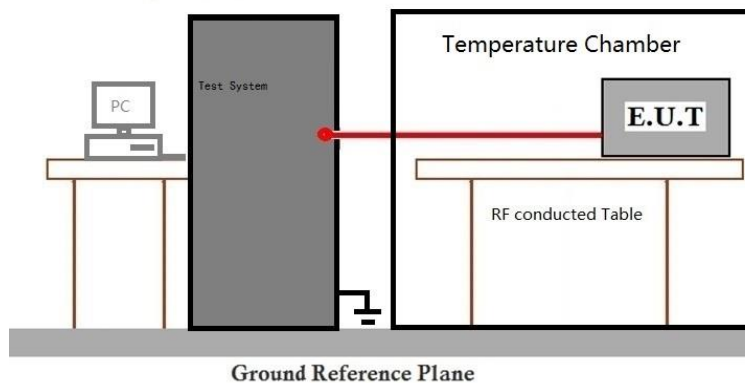


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



### 7.11.3 Test Setup Diagram



### 7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 8 Test Setup Photo

Refer to Setup Photos for GZCR240100011403

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2401000114HS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



## 10 Appendix

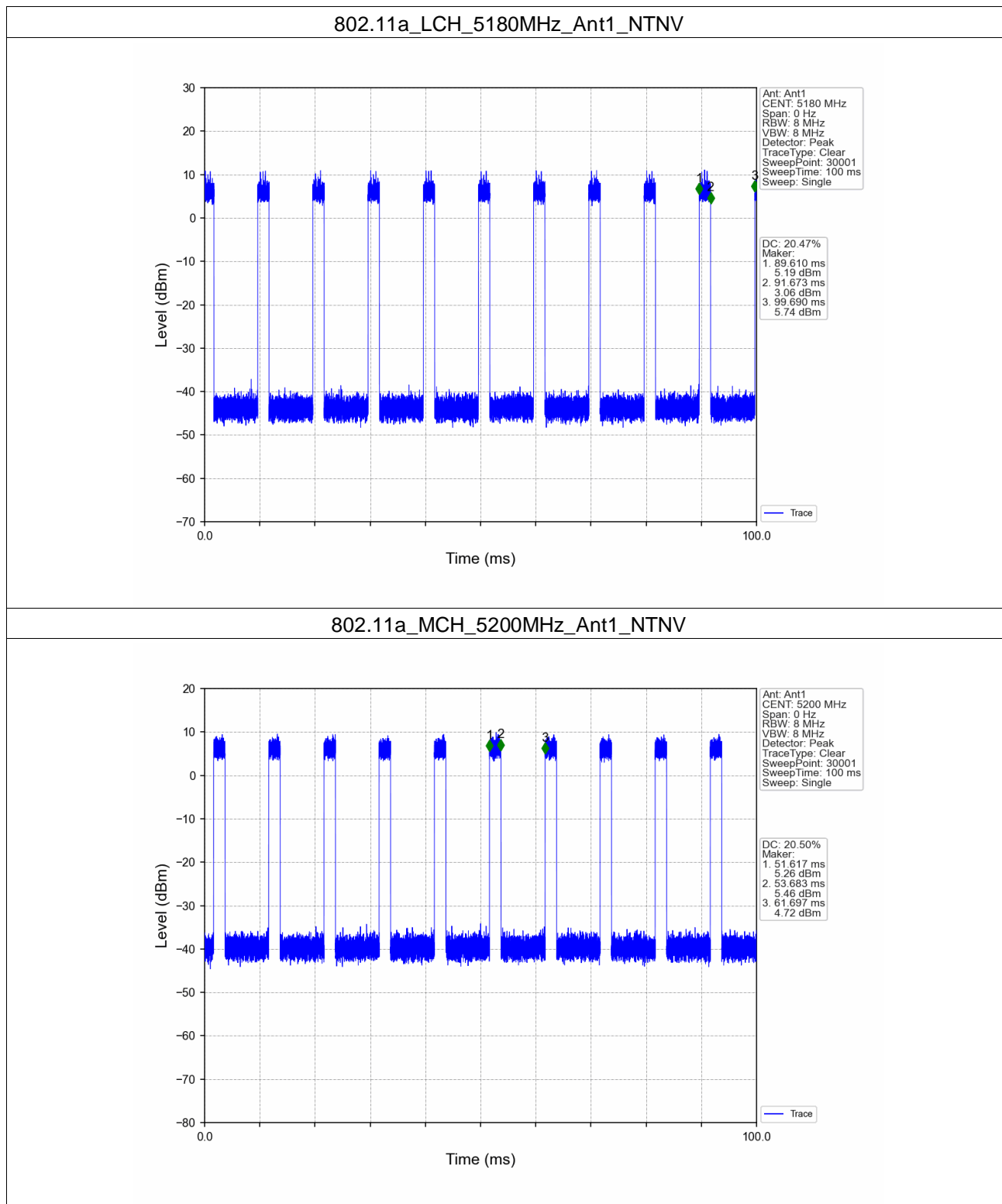
### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.063	10.080	20.47	6.89	0.20
		5200	2.066	10.080	20.50	6.88	0.26
		5240	2.064	10.014	20.61	6.86	0.10
		5260	2.064	10.080	20.48	6.89	0.33
		5300	2.063	10.013	20.60	6.86	0.10
		5320	2.063	10.080	20.47	6.89	0.36
		5500	2.064	10.017	20.60	6.86	0.10
		5580	2.067	10.017	20.63	6.85	0.07
		5700	2.067	10.017	20.63	6.85	0.07
		5745	2.067	10.080	20.51	6.88	0.33
		5785	2.064	10.047	20.54	6.87	0.37
		5825	2.064	10.017	20.60	6.86	0.07
802.11n (HT40)	SISO	5190	0.947	10.080	9.39	10.27	0.15
		5230	0.943	10.046	9.39	10.27	0.15
		5270	0.944	10.017	9.42	10.26	0.03
		5310	0.943	10.016	9.41	10.26	0.06
		5510	0.943	10.017	9.41	10.26	0.06
		5550	0.944	10.047	9.40	10.27	0.12
		5670	2.067	10.144	20.38	6.91	0.52
		5755	0.944	9.984	9.46	10.24	0.00
		5795	0.943	10.047	9.39	10.28	0.09
802.11ac (VHT80)	SISO	5210	1.920	10.016	19.17	7.17	0.06
		5290	1.923	10.050	19.13	7.18	0.16
		5530	1.923	10.016	19.20	7.17	0.06
		5610	1.920	10.046	19.11	7.19	0.21
		5775	1.920	10.017	19.17	7.17	0.06

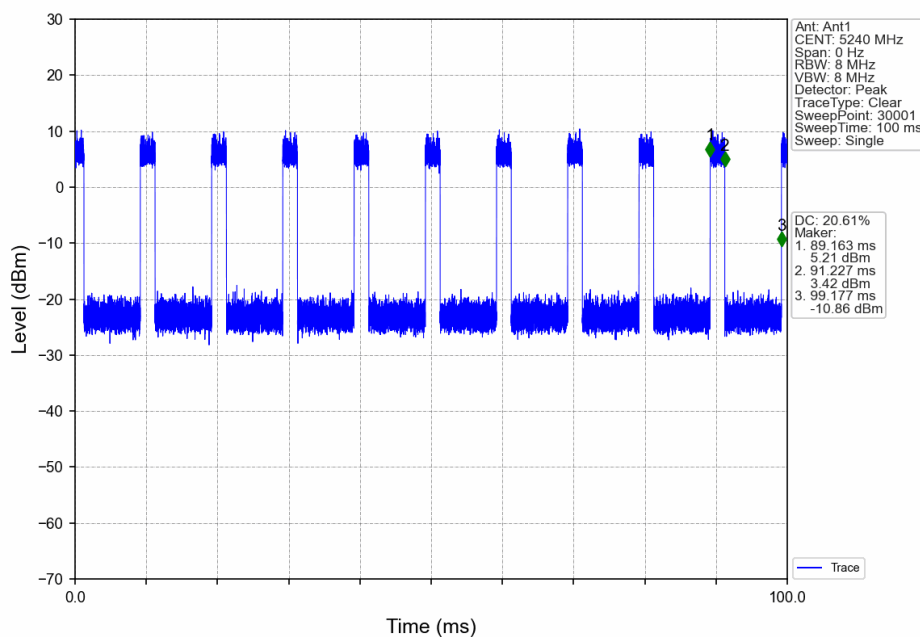
### 1.1.2 Test Graph



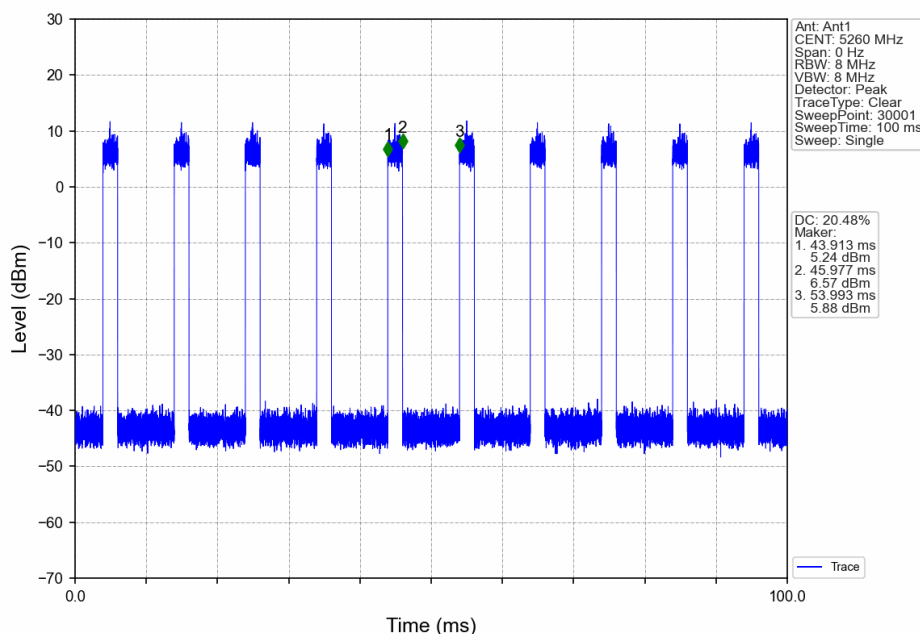
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

### 802.11a\_HCH\_5240MHz\_Ant1\_NTNV

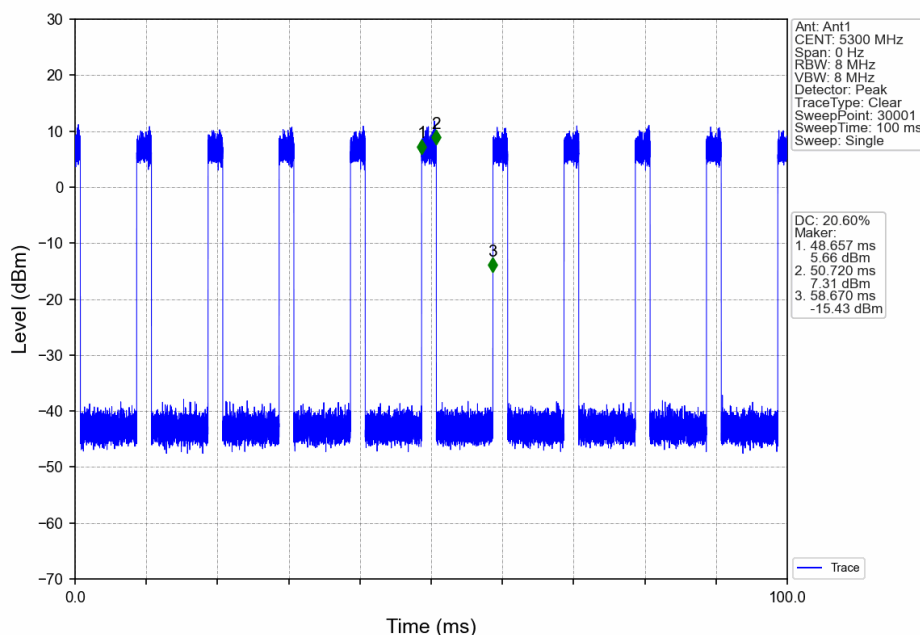


### 802.11a\_LCH\_5260MHz\_Ant1\_NTNV

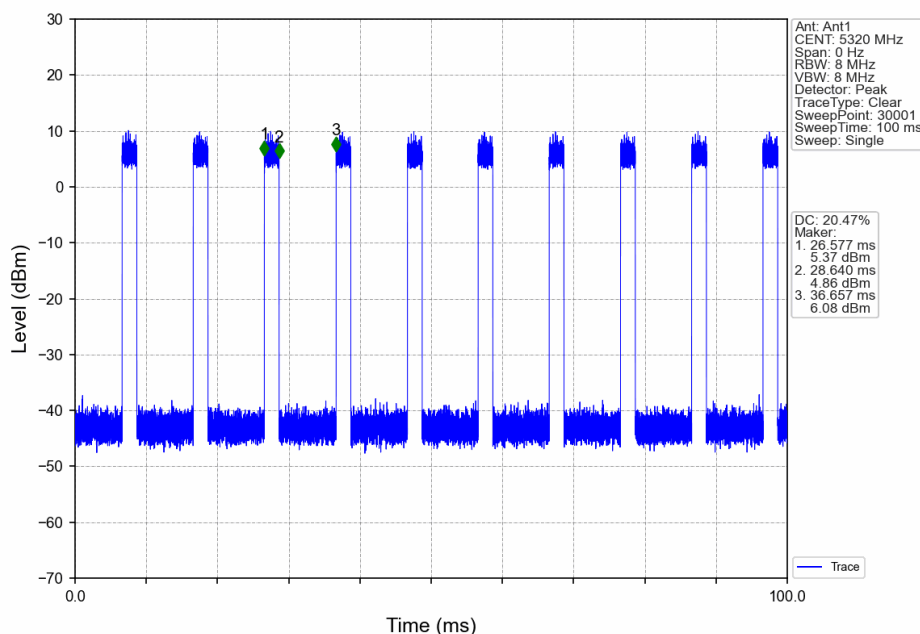




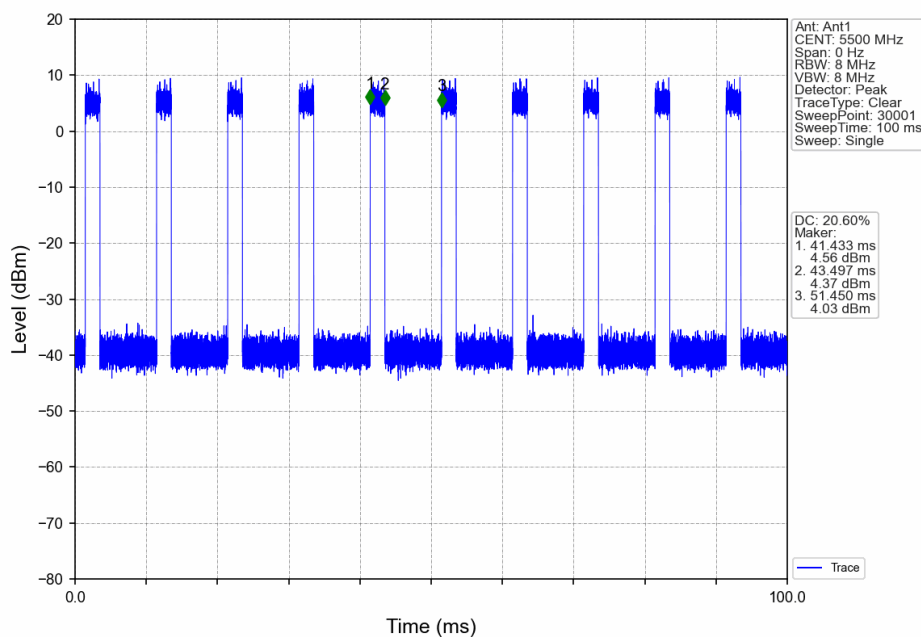
### 802.11a\_MCH\_5300MHz\_Ant1\_NTNV



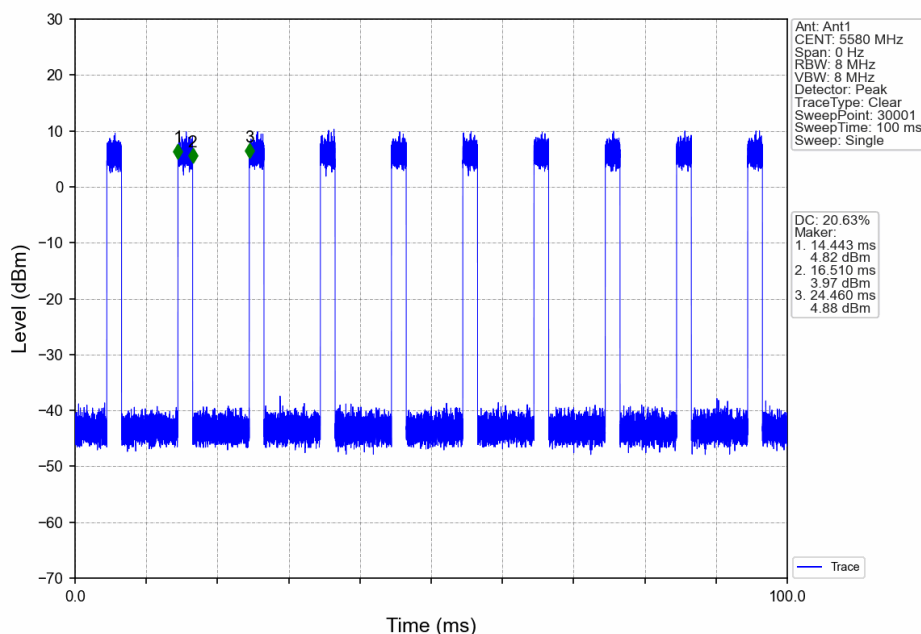
### 802.11a\_HCH\_5320MHz\_Ant1\_NTNV



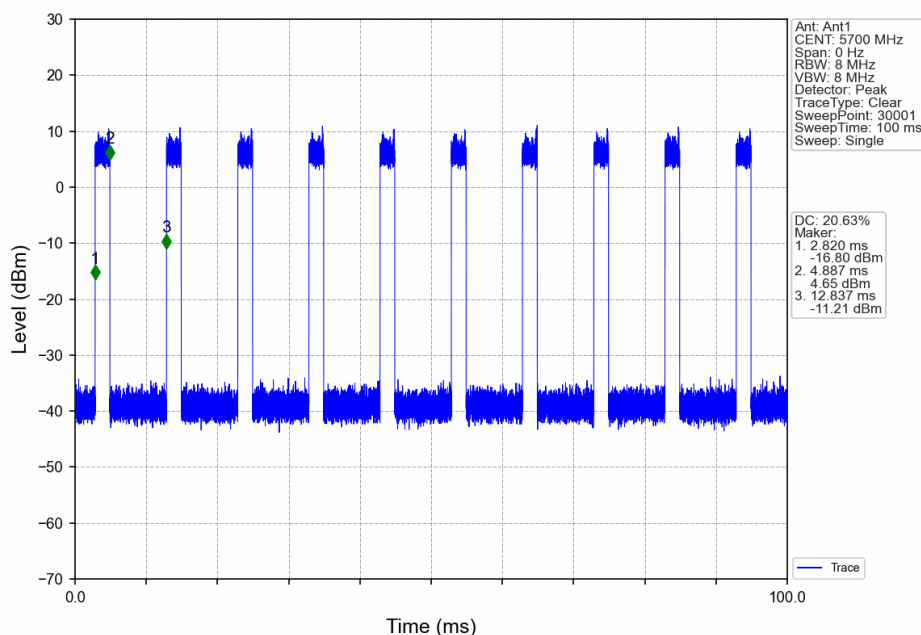
### 802.11a\_LCH\_5500MHz\_Ant1\_NTNV



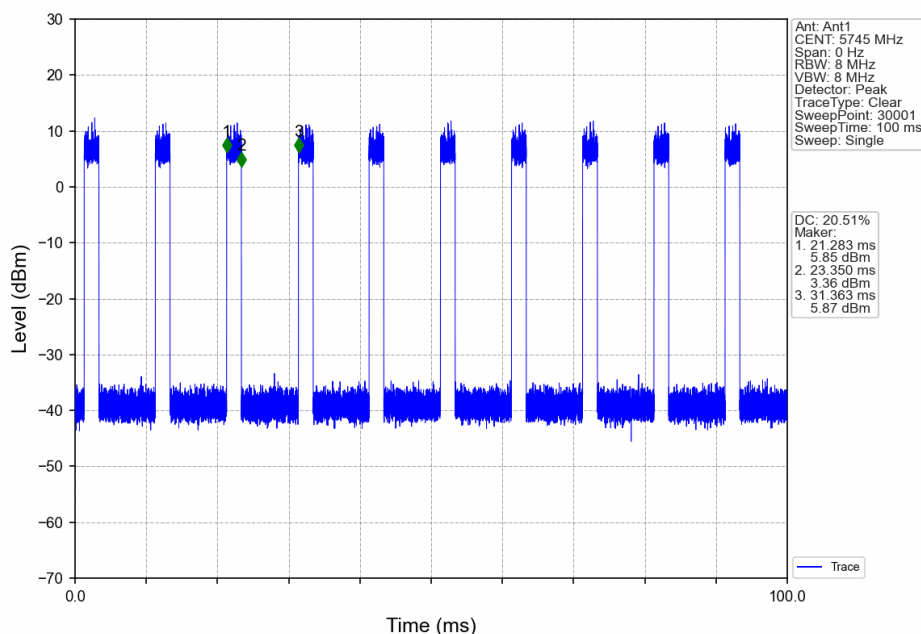
### 802.11a\_MCH\_5580MHz\_Ant1\_NTNV



### 802.11a\_HCH\_5700MHz\_Ant1\_NTNV

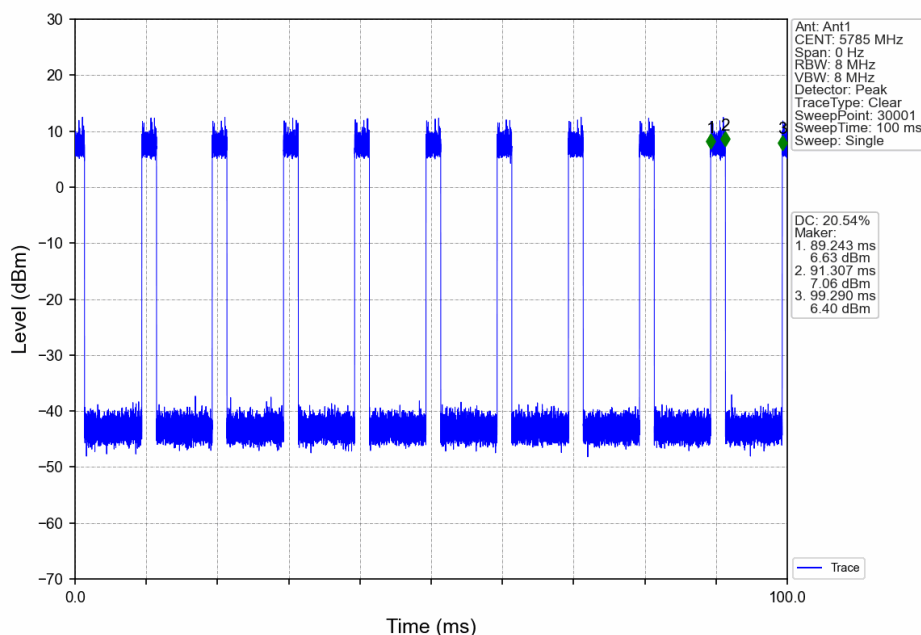


### 802.11a\_LCH\_5745MHz\_Ant1\_NTNV

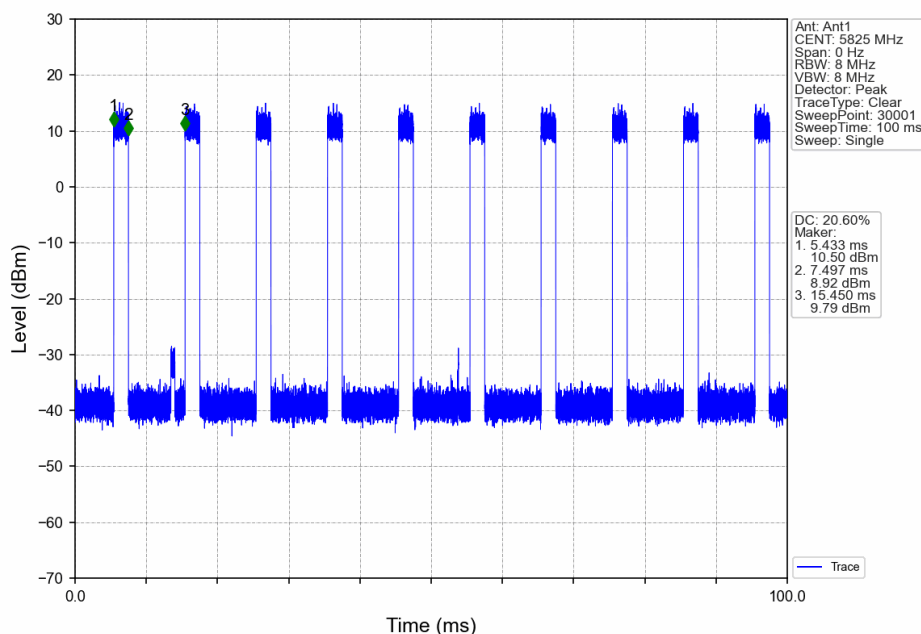




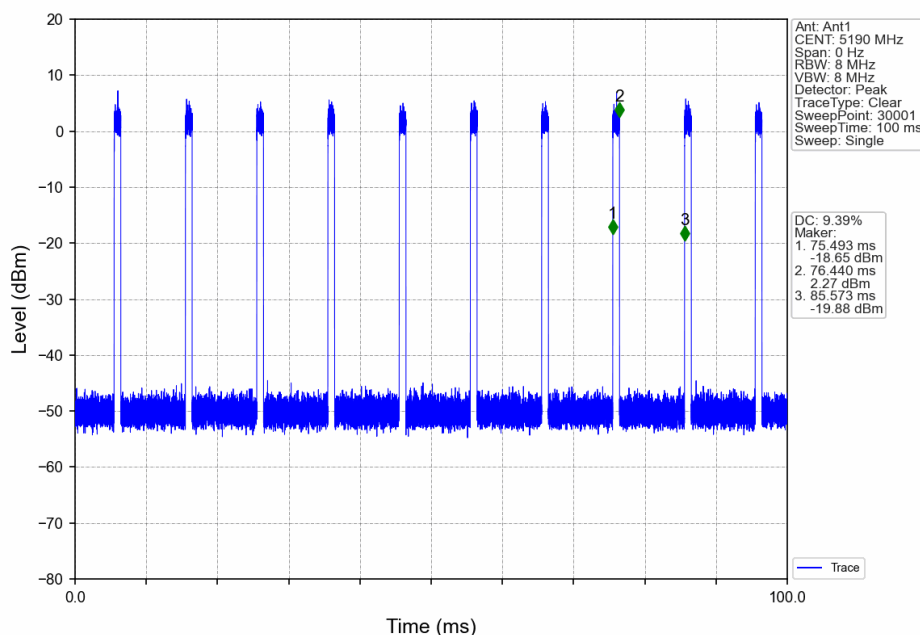
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



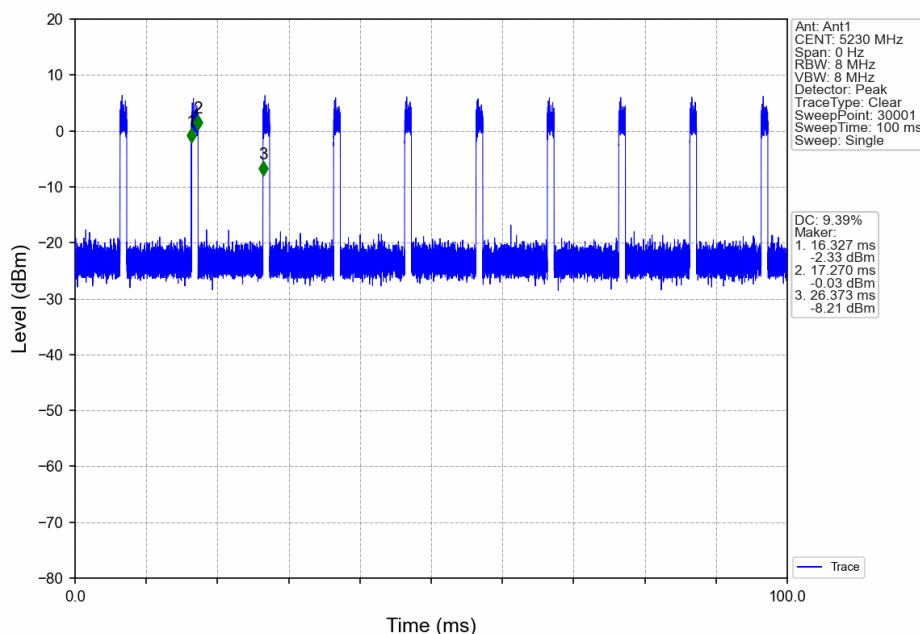
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



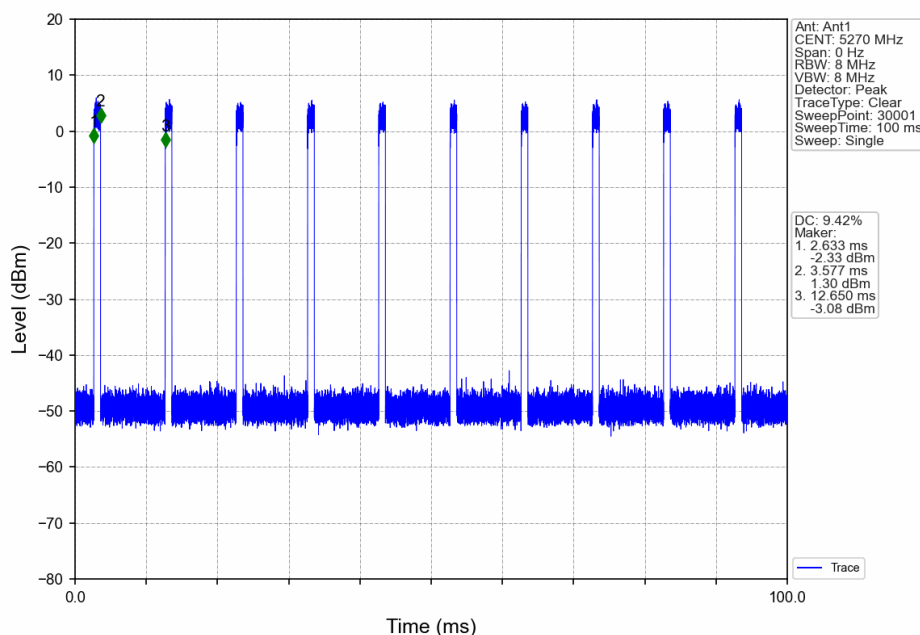
### 802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



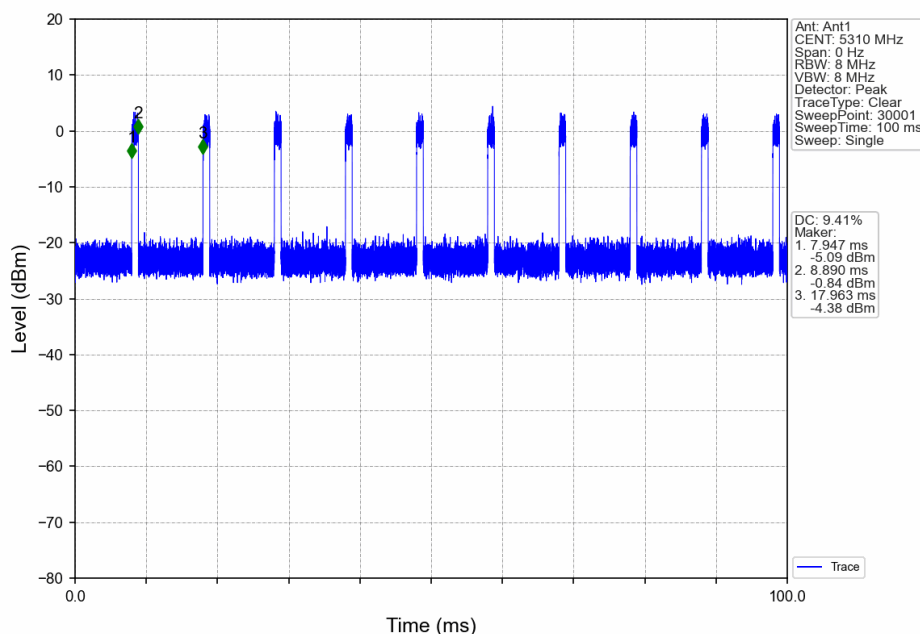
### 802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



### 802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV

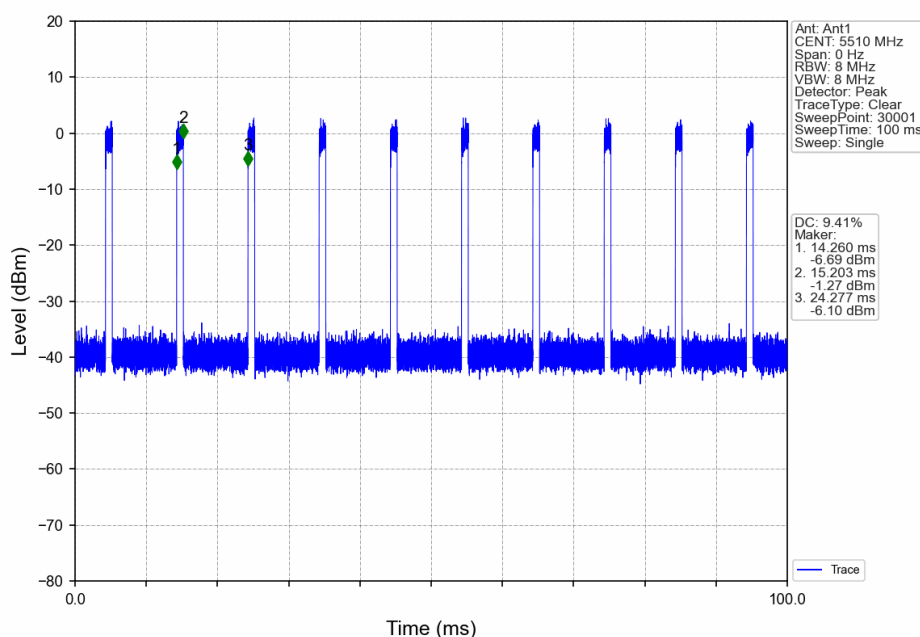


### 802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV

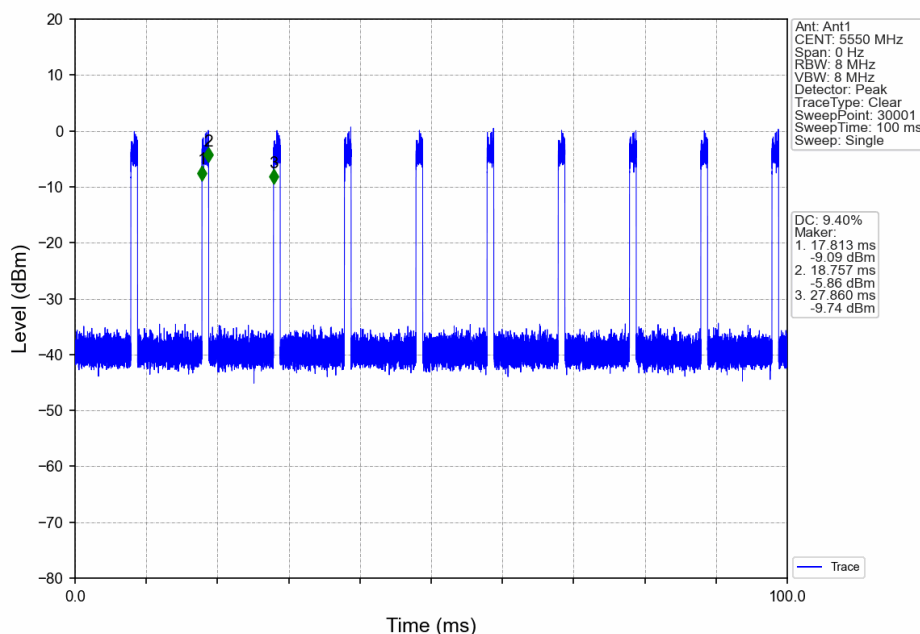




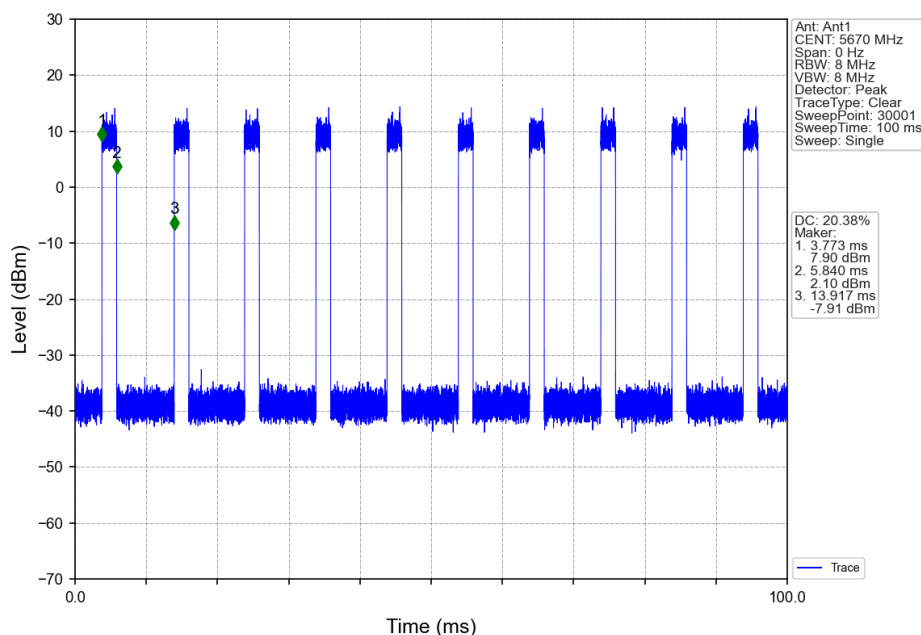
### 802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



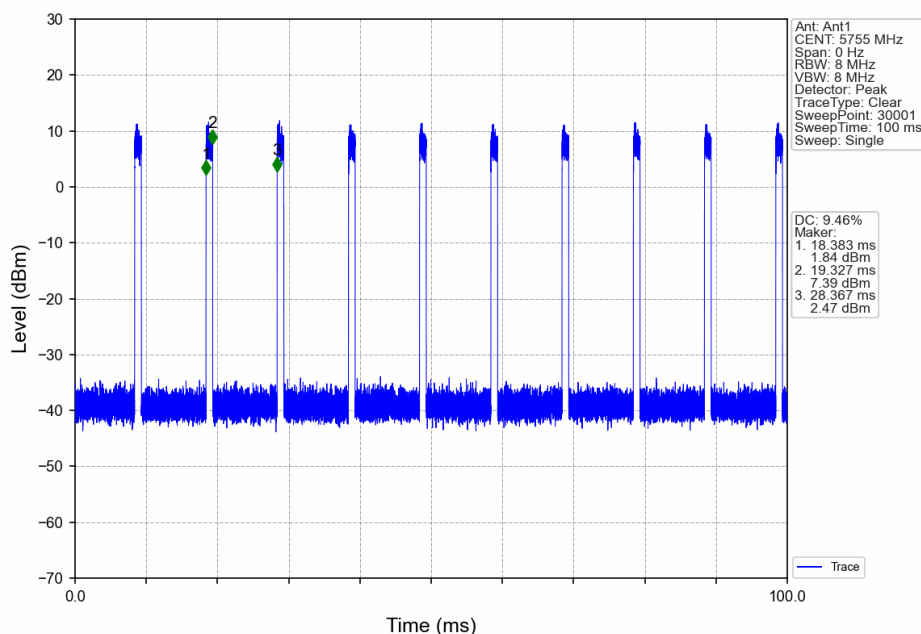
### 802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



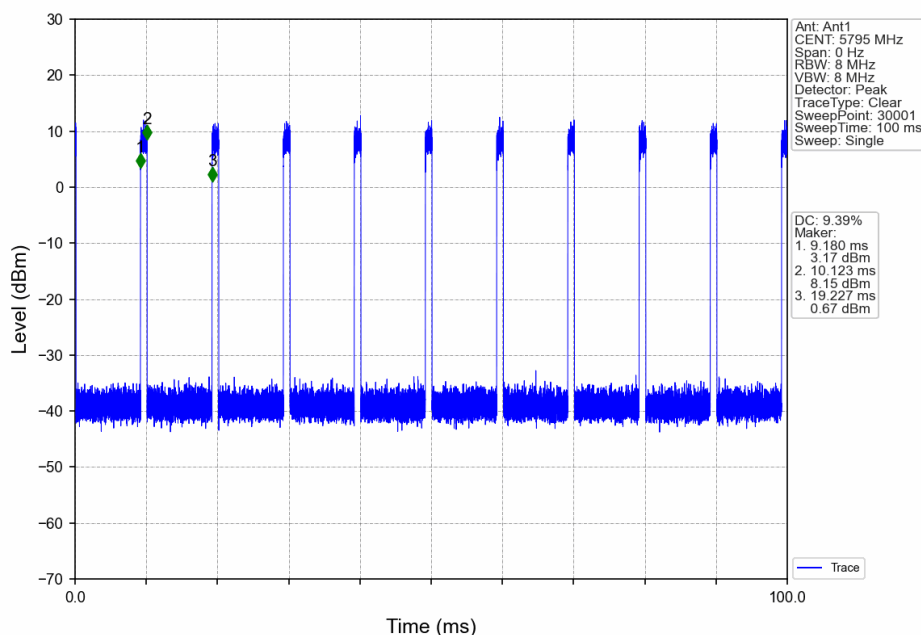
### 802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



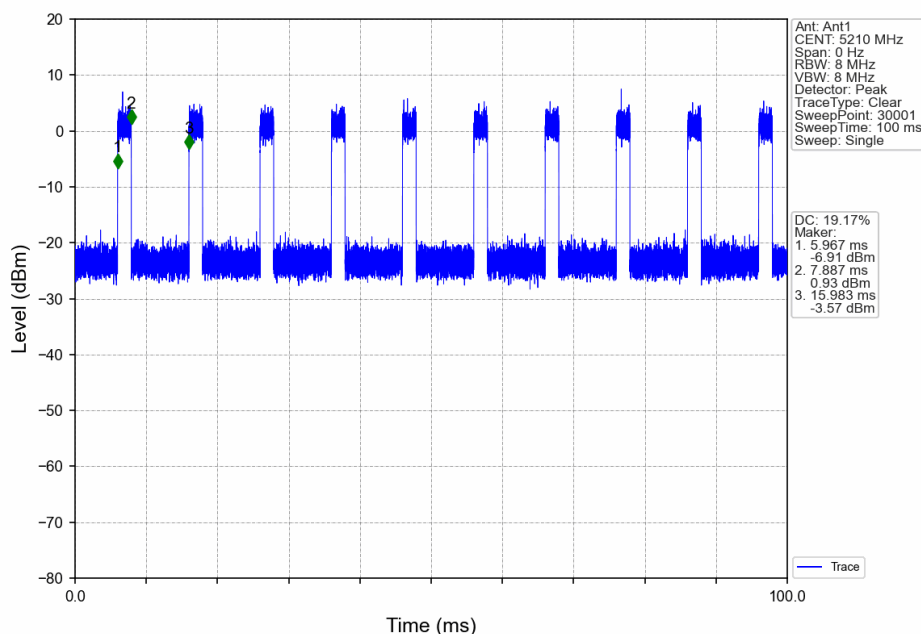
### 802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV

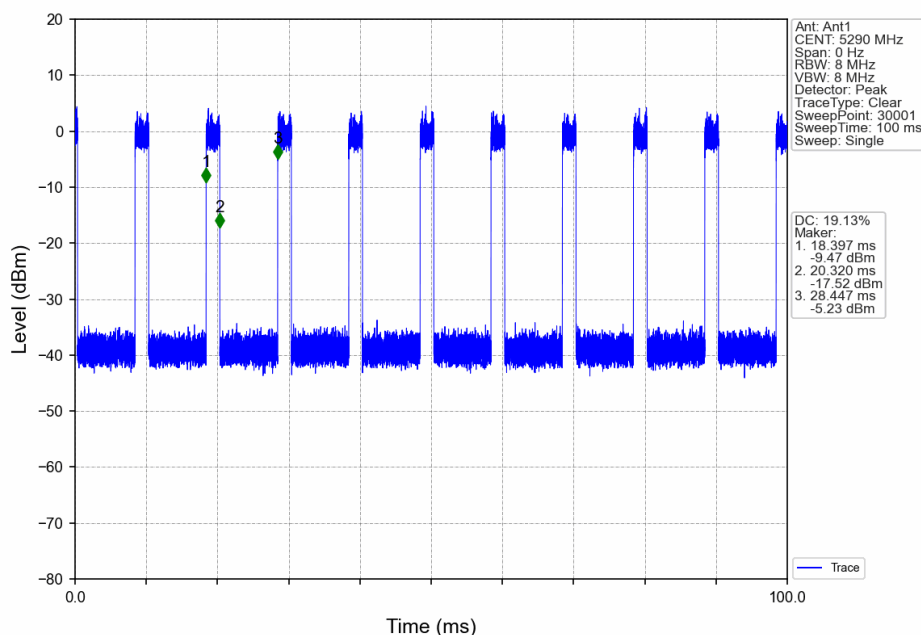


802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV

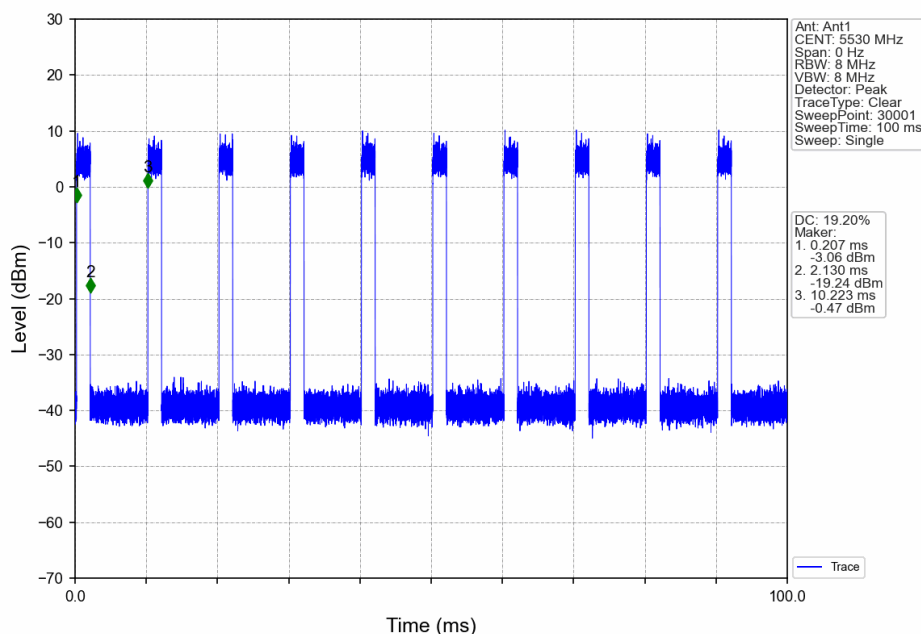




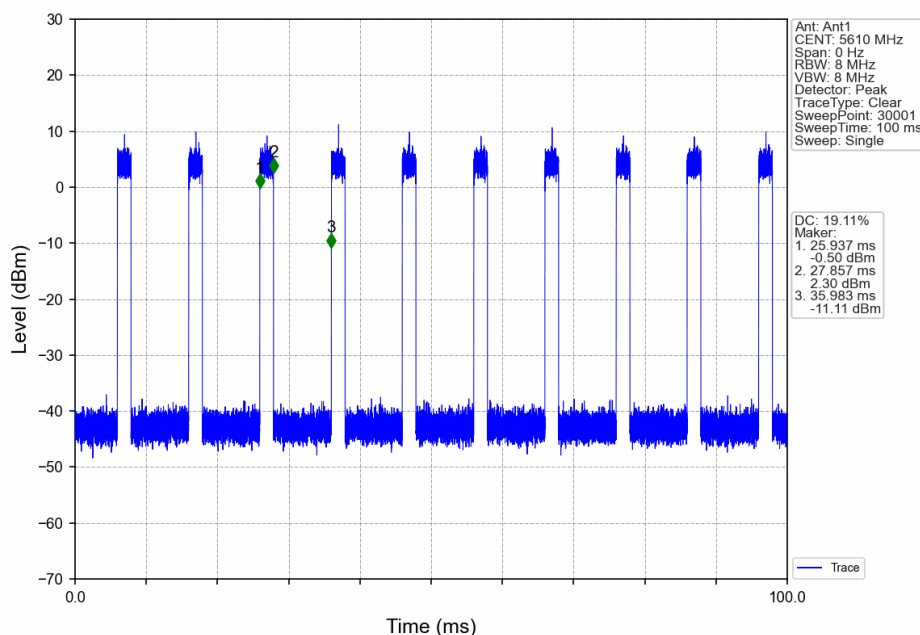
### 802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



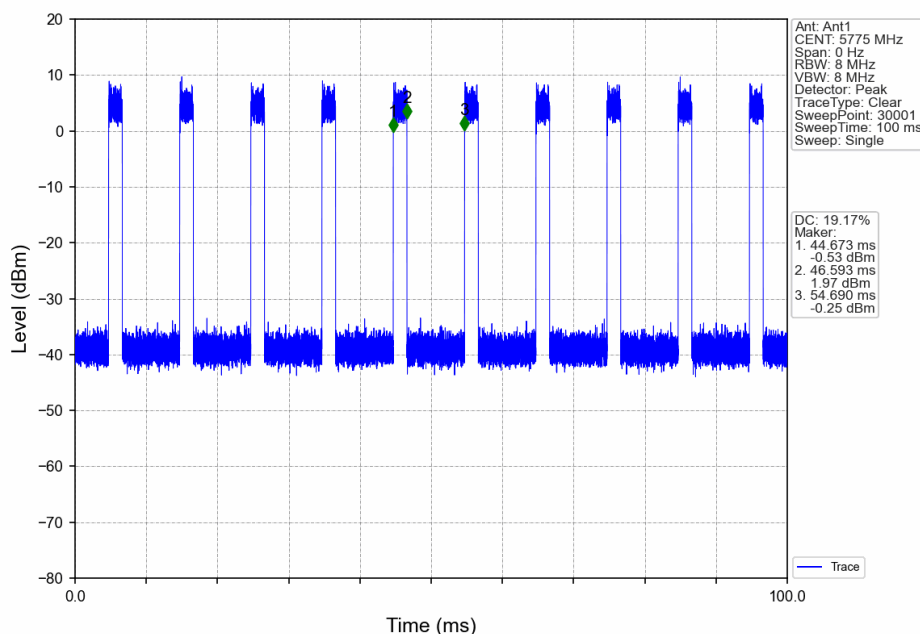
### 802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



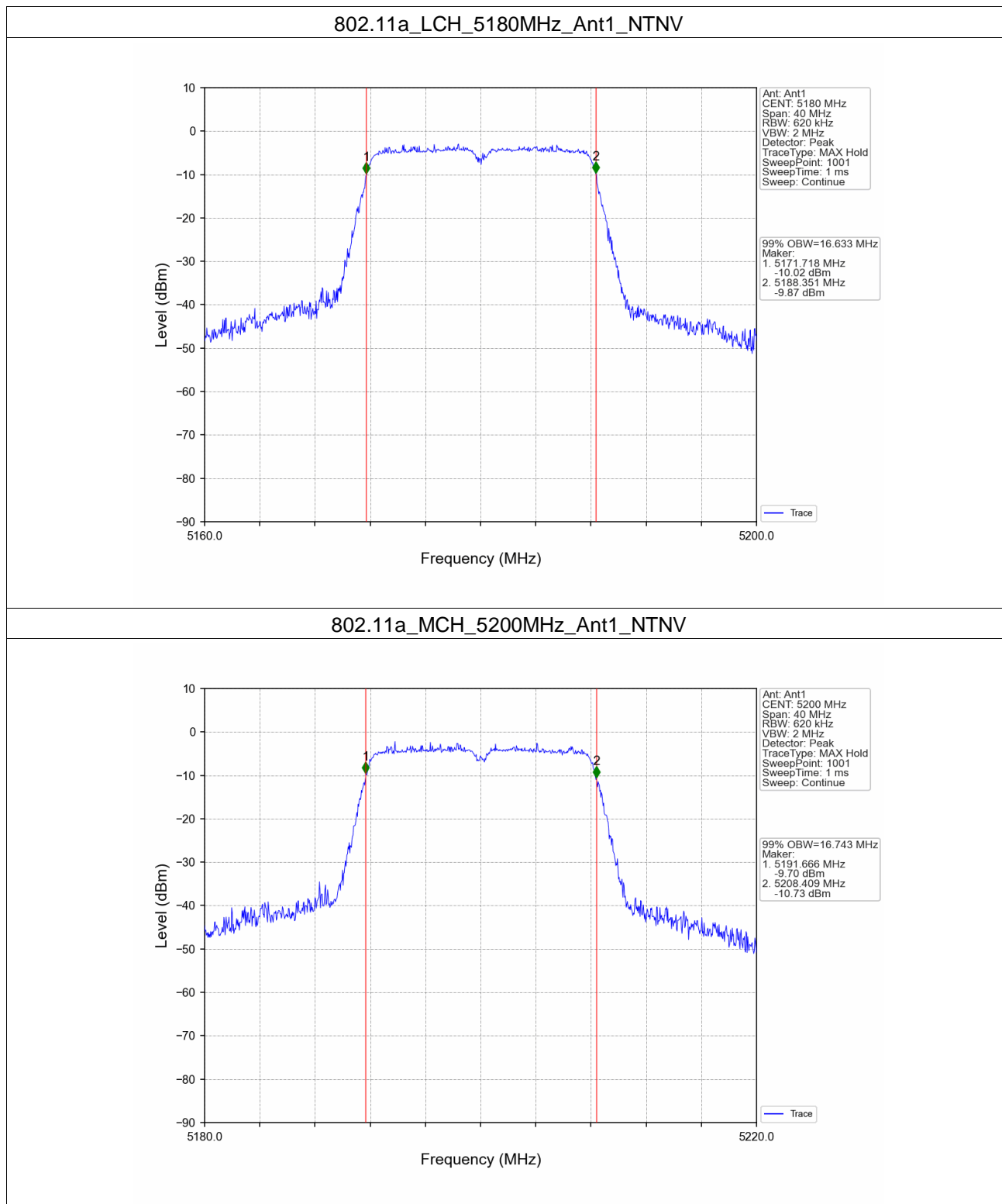
## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	16.633	Pass
		5200	1	16.743	Pass
		5240	1	16.655	Pass
		5260	1	16.677	Pass
		5300	1	16.631	Pass
		5320	1	16.678	Pass
		5500	1	16.735	Pass
		5580	1	16.673	Pass
		5700	1	16.725	Pass
		5745	1	16.676	Pass
		5785	1	16.874	Pass
		5825	1	16.880	Pass
802.11n (HT40)	SISO	5190	1	36.282	Pass
		5230	1	36.357	Pass
		5270	1	36.312	Pass
		5310	1	36.441	Pass
		5510	1	36.349	Pass
		5550	1	36.361	Pass
		5670	1	36.483	Pass
		5755	1	37.679	Pass
		5795	1	36.761	Pass
802.11ac (VHT80)	SISO	5210	1	75.367	Pass
		5290	1	76.072	Pass
		5530	1	75.413	Pass
		5610	1	75.370	Pass
		5775	1	84.622	Pass

### 2.1.2 Test Graph



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

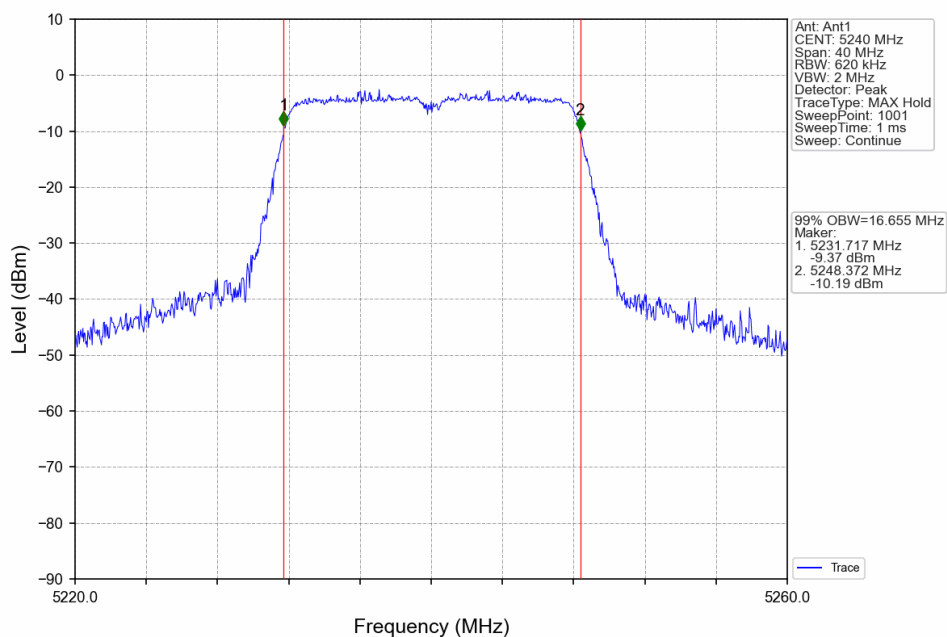
SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch, Testing & Calibration Laboratory

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

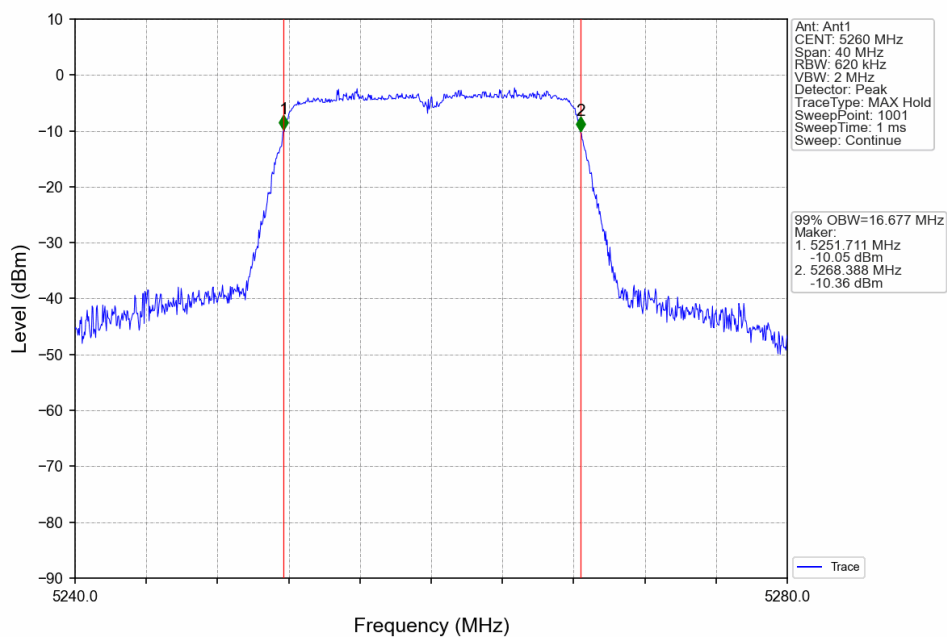
t (86-20) 82155555 www.sgs.com.cn  
t (86-20) 82155555 sgs.china@sgs.com



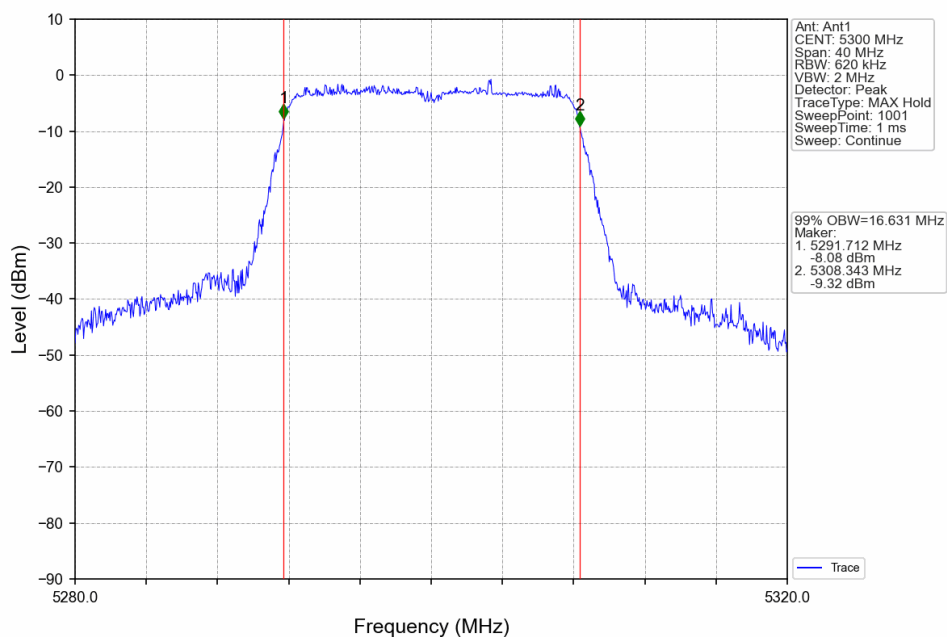
### 802.11a\_HCH\_5240MHz\_Ant1\_NTNV



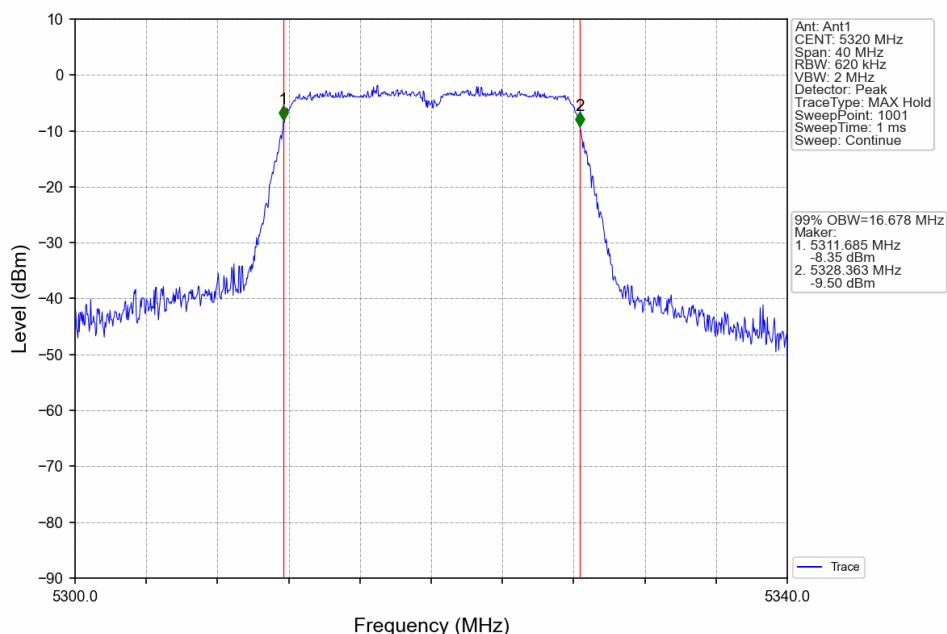
### 802.11a\_LCH\_5260MHz\_Ant1\_NTNV



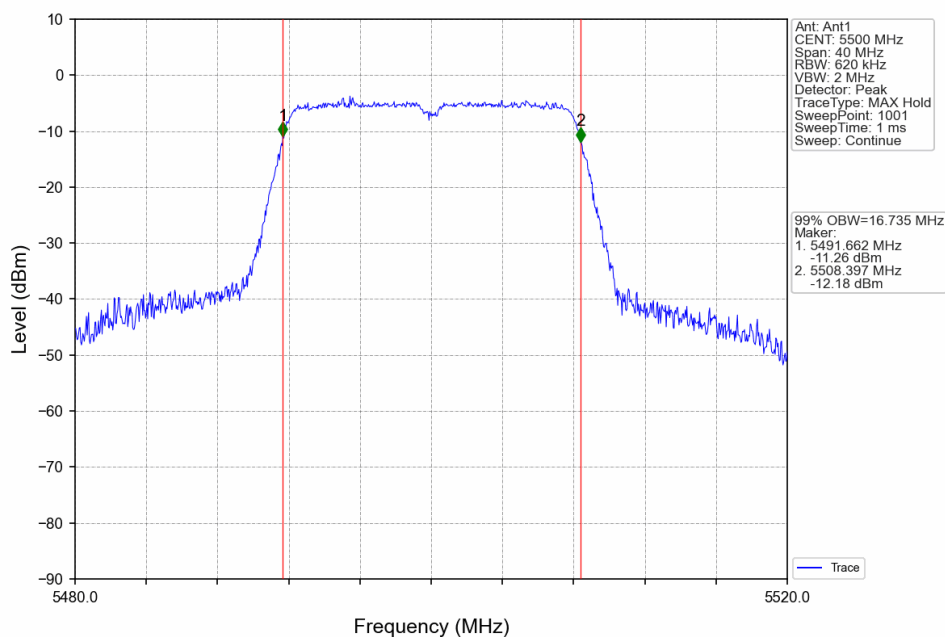
802.11a\_MCH\_5300MHz\_Ant1\_NTNV



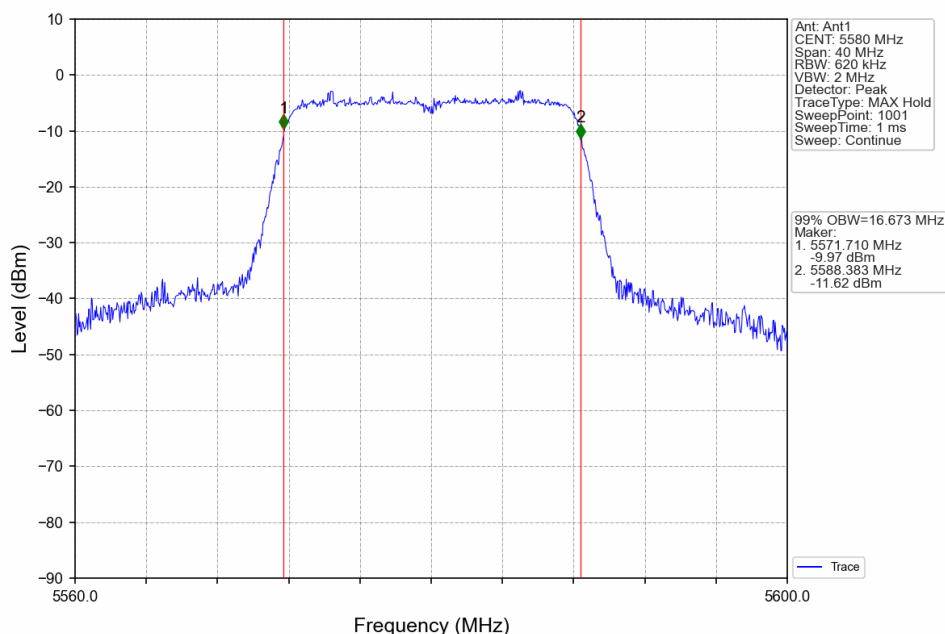
802.11a\_HCH\_5320MHz\_Ant1\_NTNV



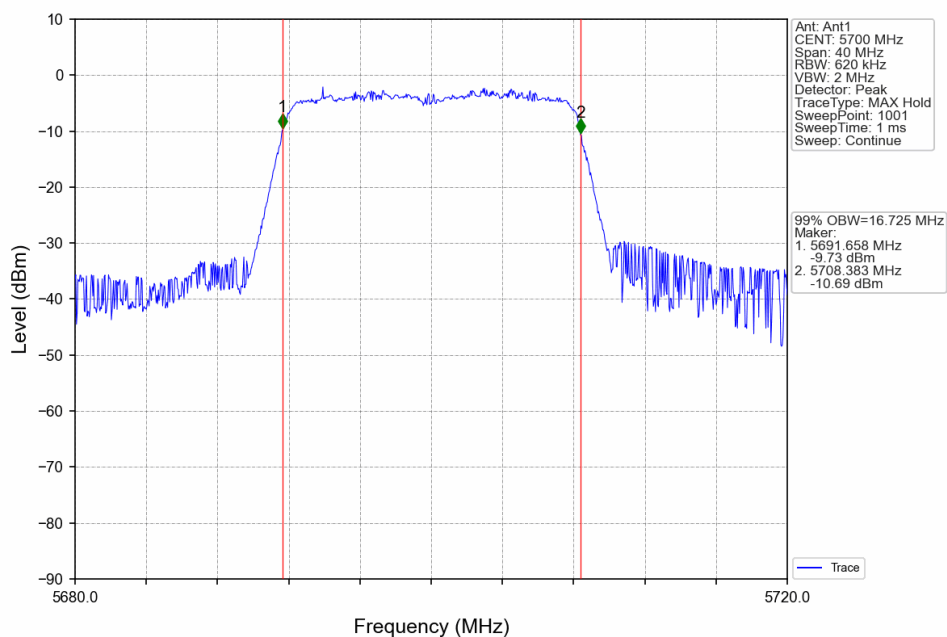
### 802.11a\_LCH\_5500MHz\_Ant1\_NTNV



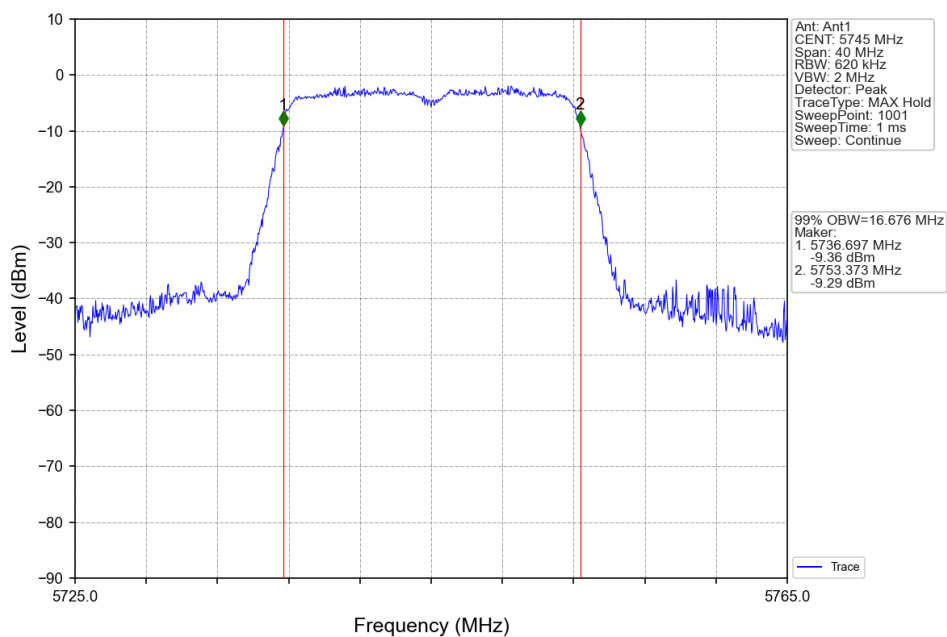
### 802.11a\_MCH\_5580MHz\_Ant1\_NTNV



802.11a\_HCH\_5700MHz\_Ant1\_NTNV

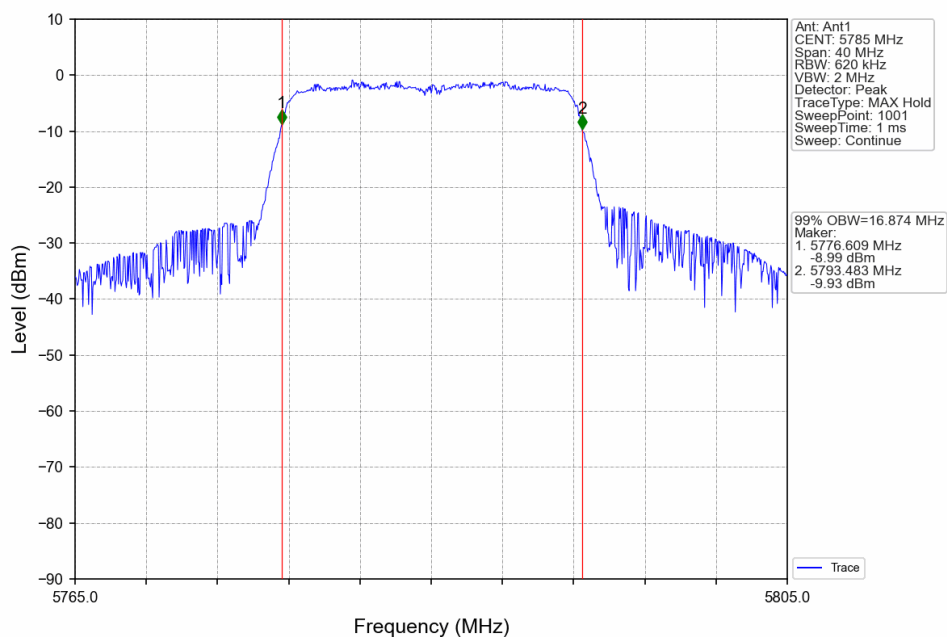


802.11a\_LCH\_5745MHz\_Ant1\_NTNV

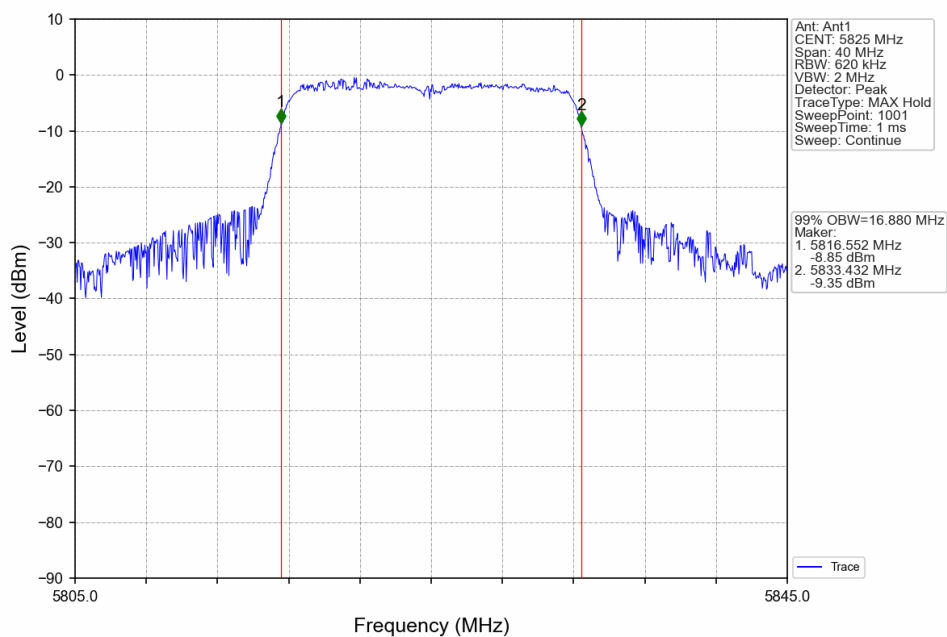




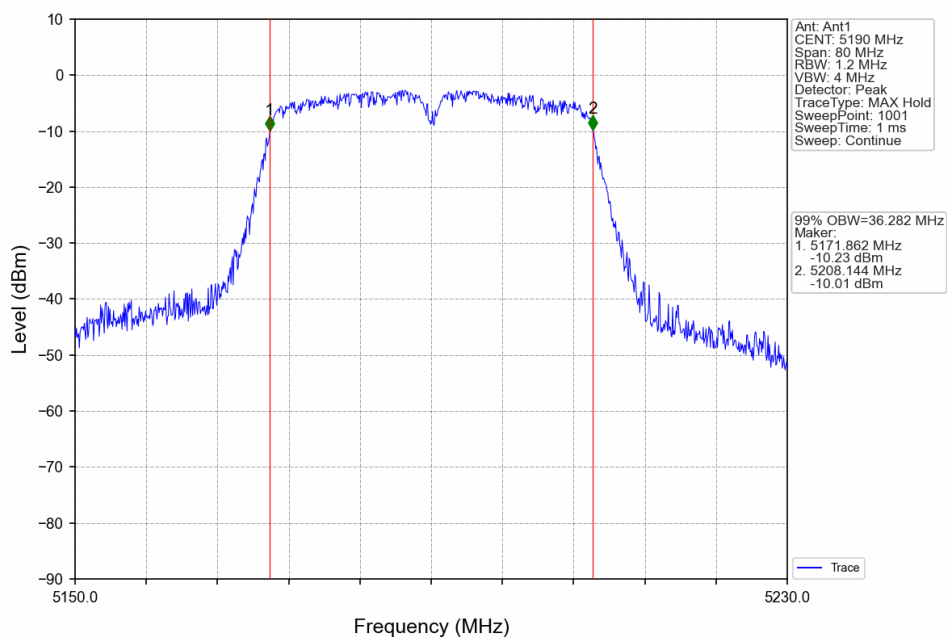
802.11a\_MCH\_5785MHz\_Ant1\_NTNV



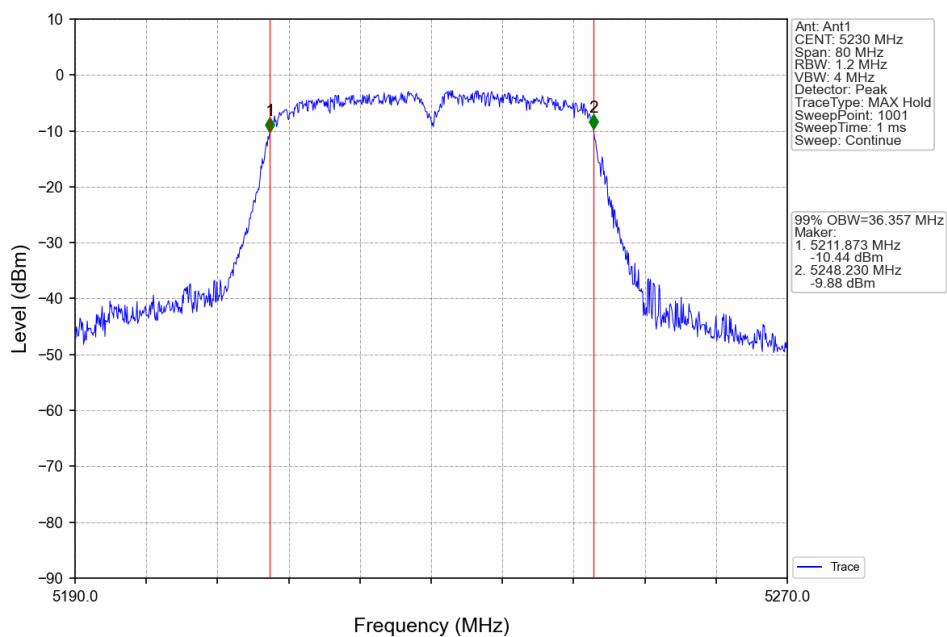
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



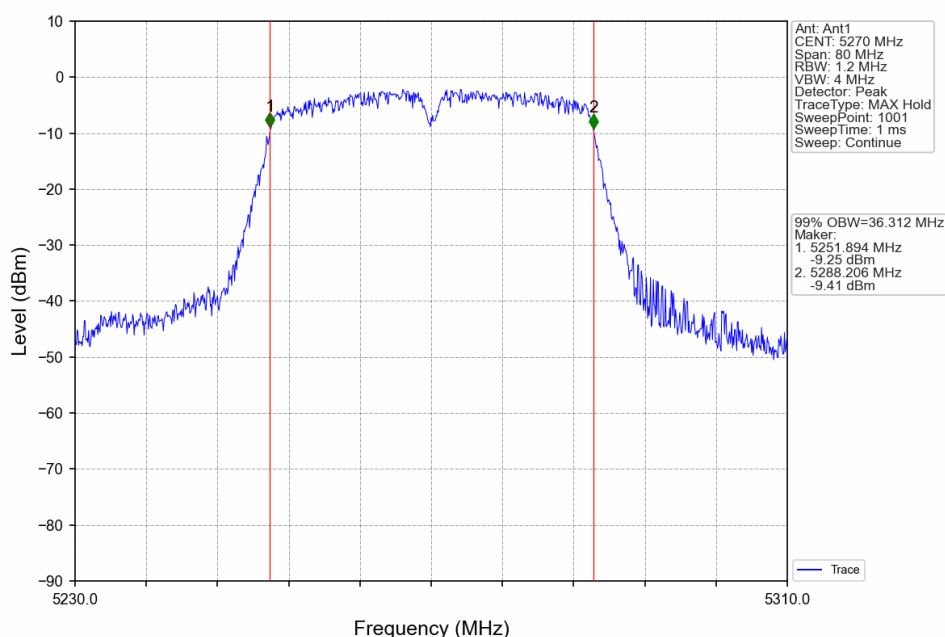
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



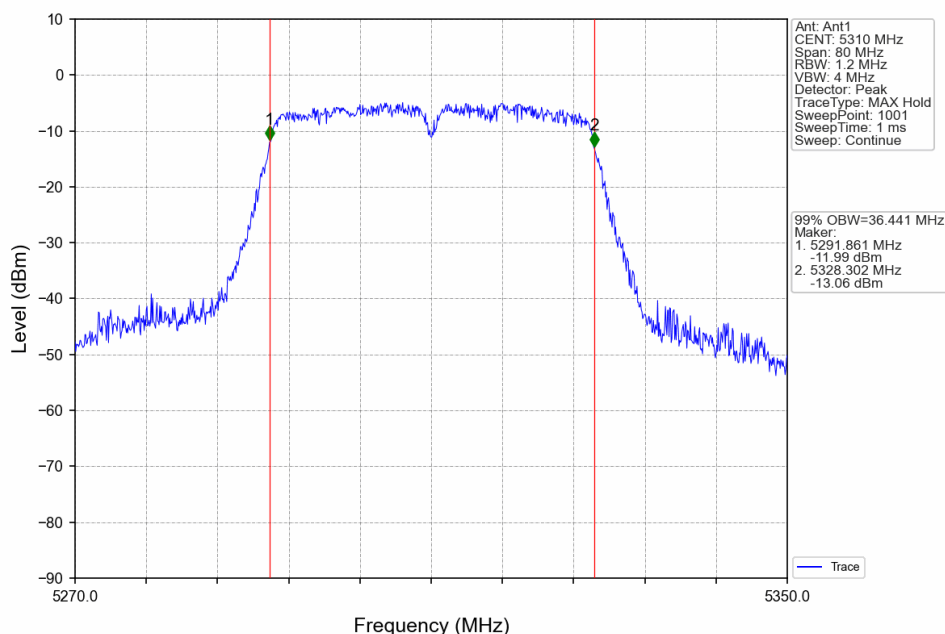
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



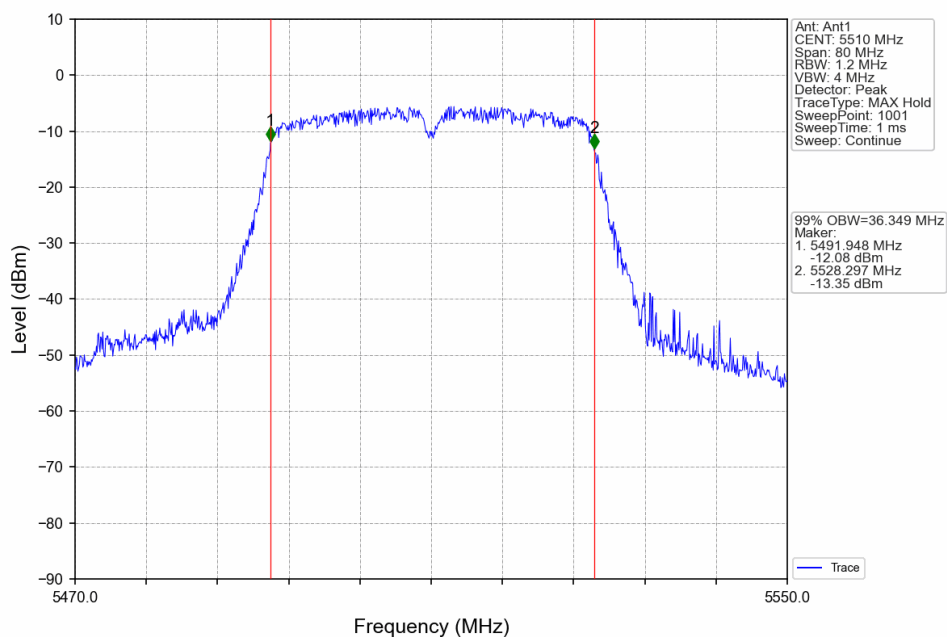
802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



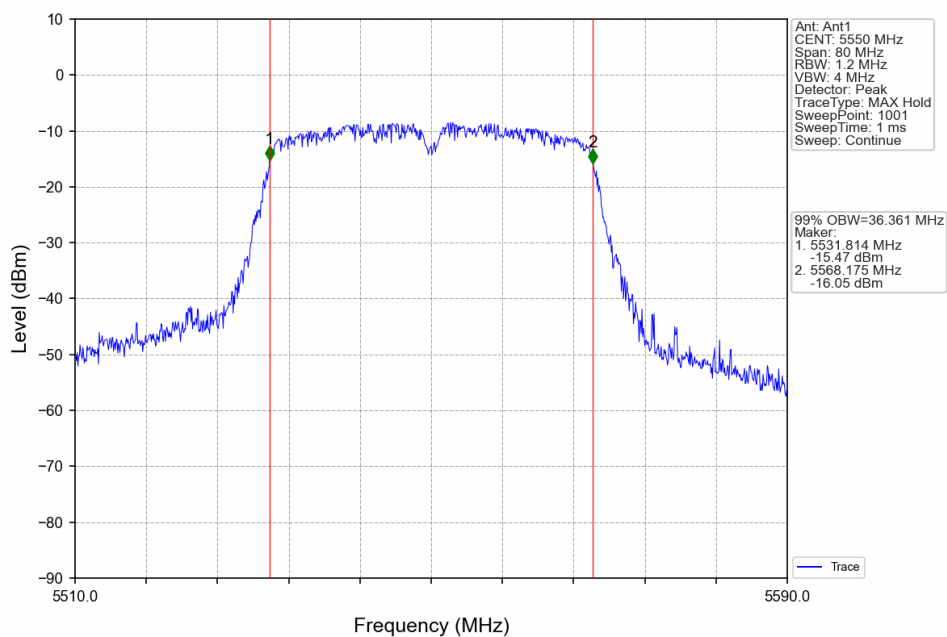
802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV

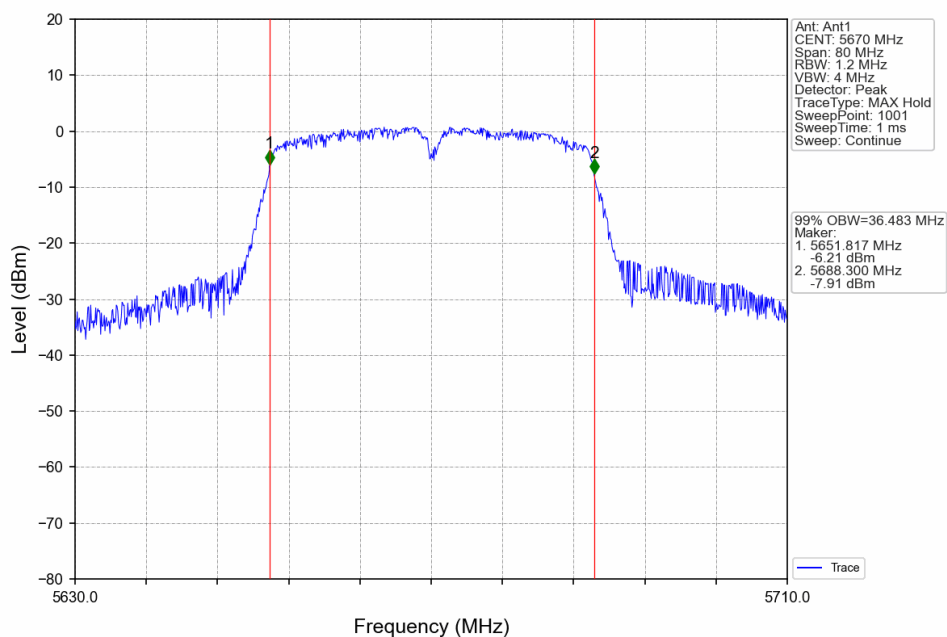


802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV

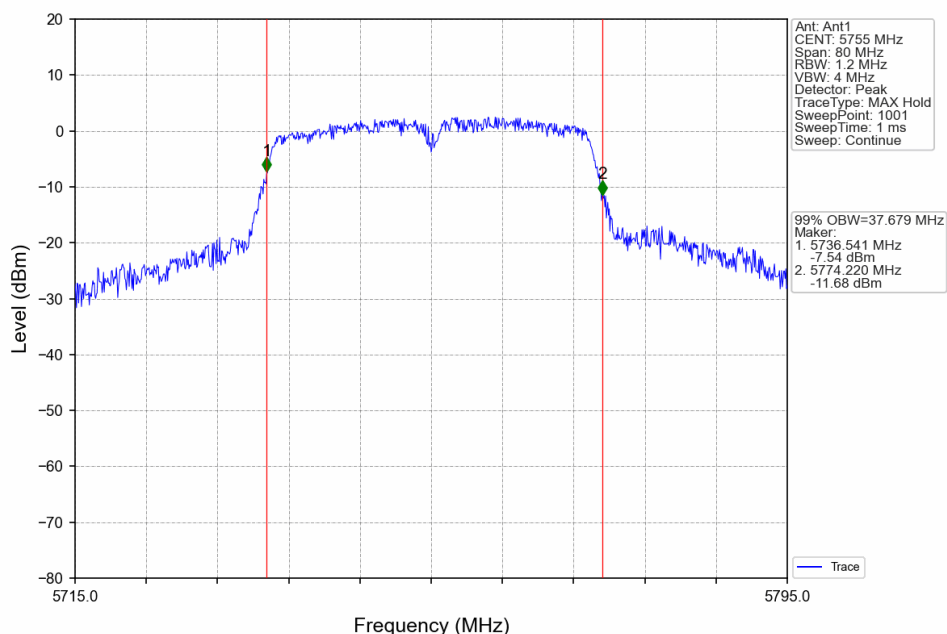




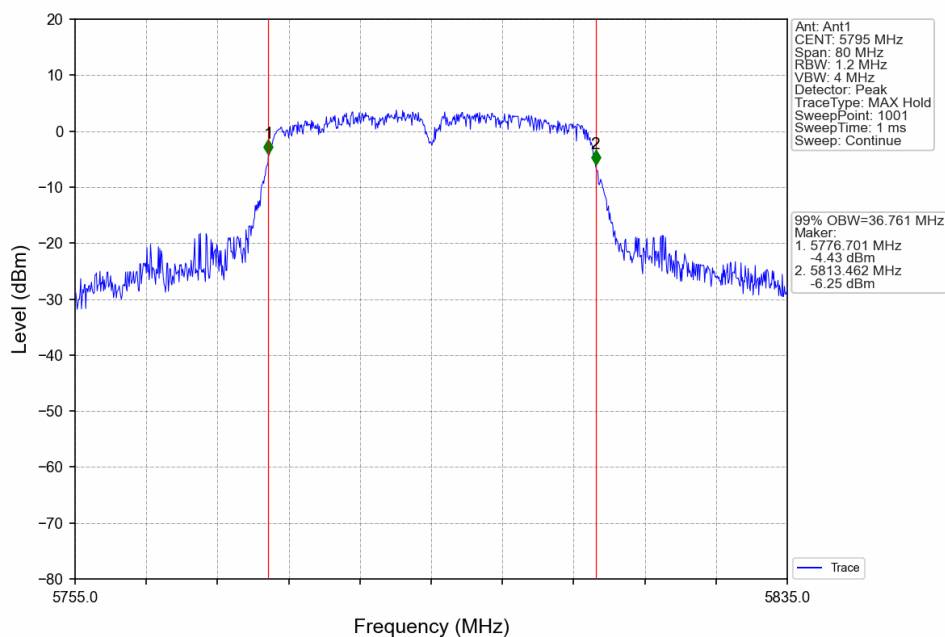
802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



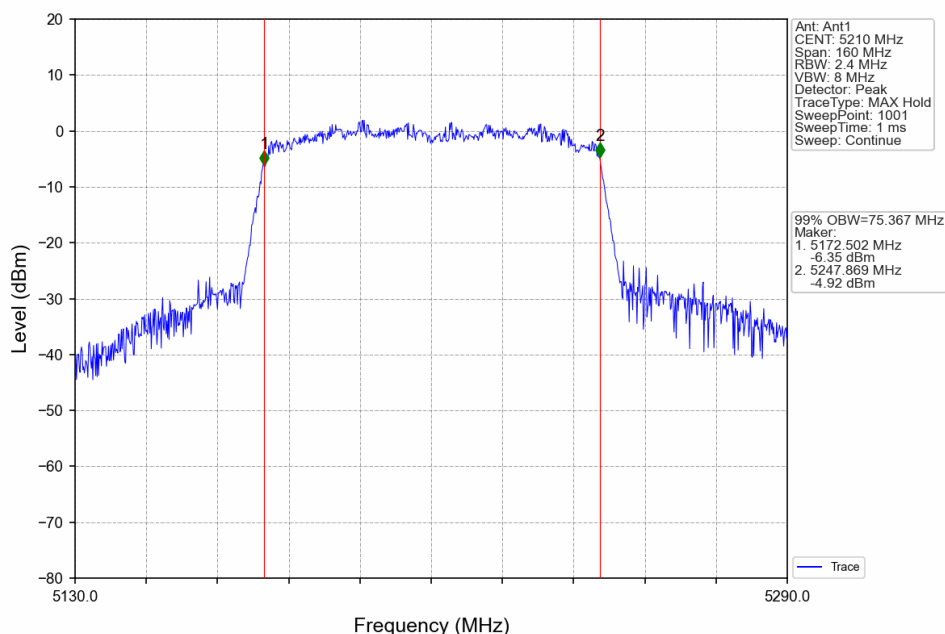
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



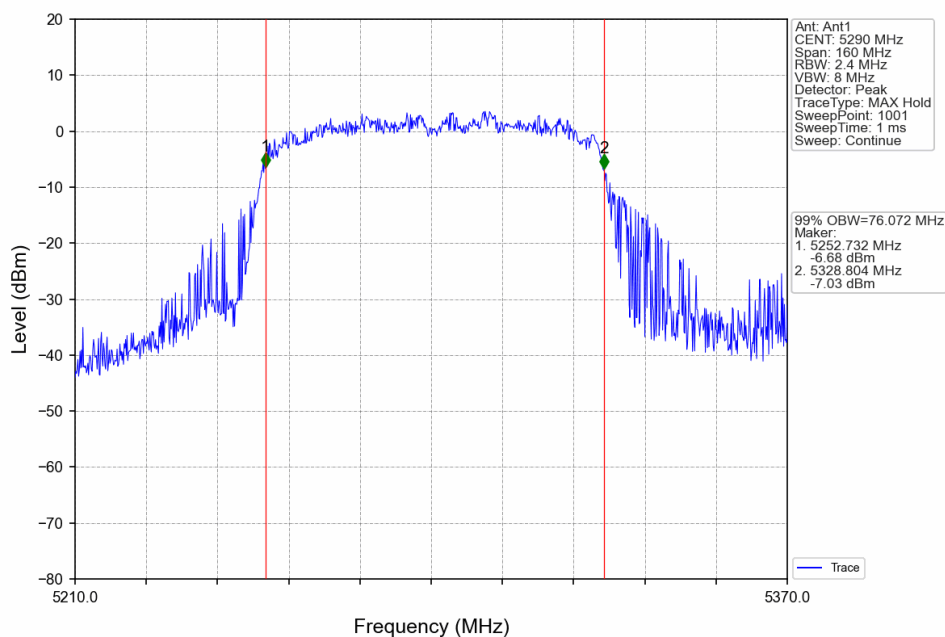
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



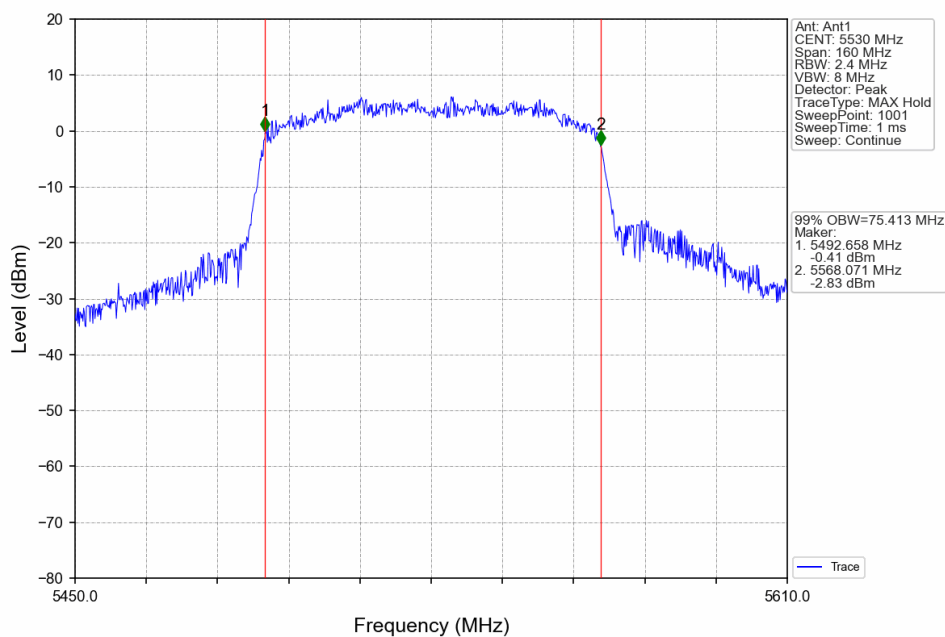
802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



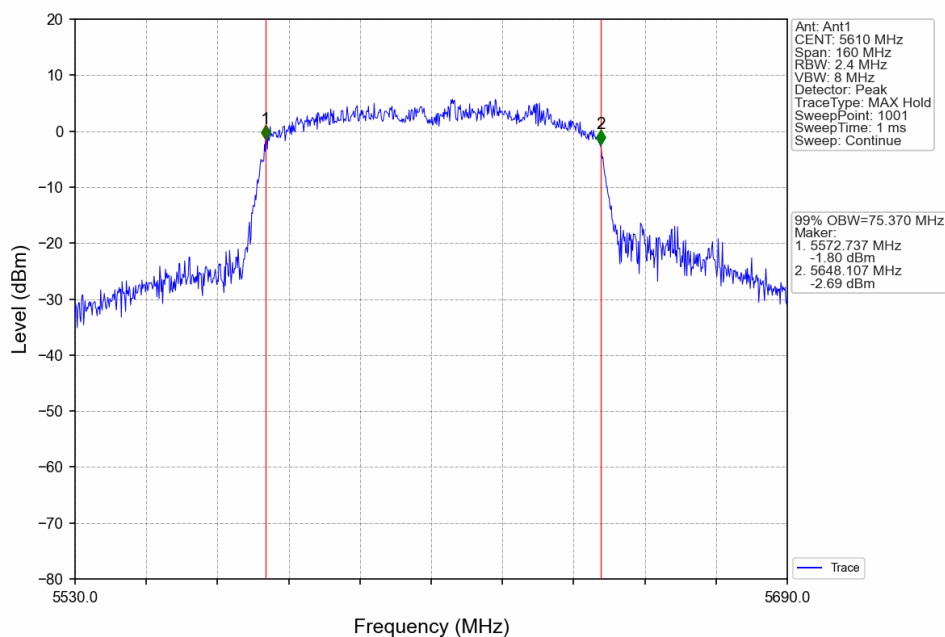
802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



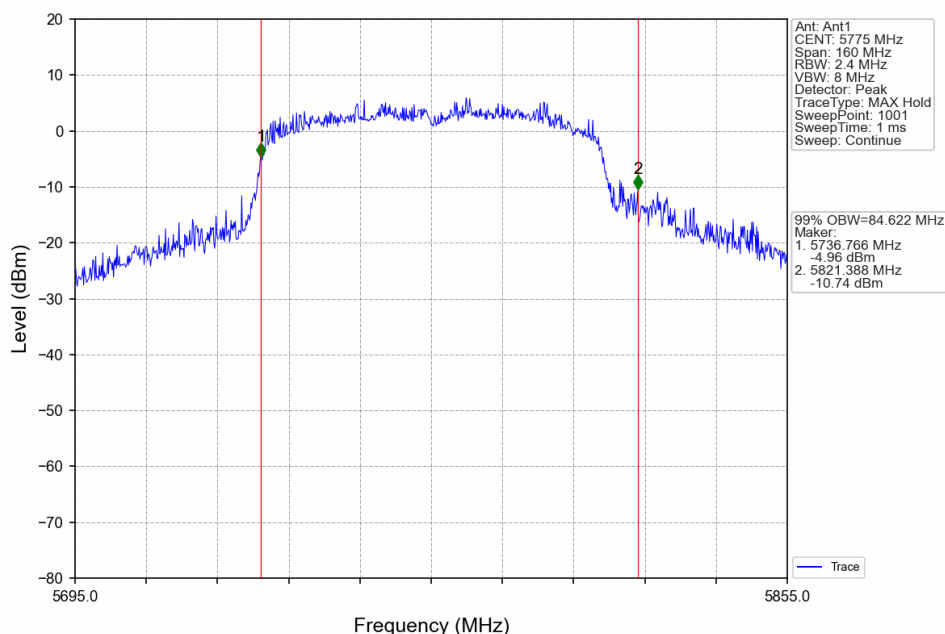
802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



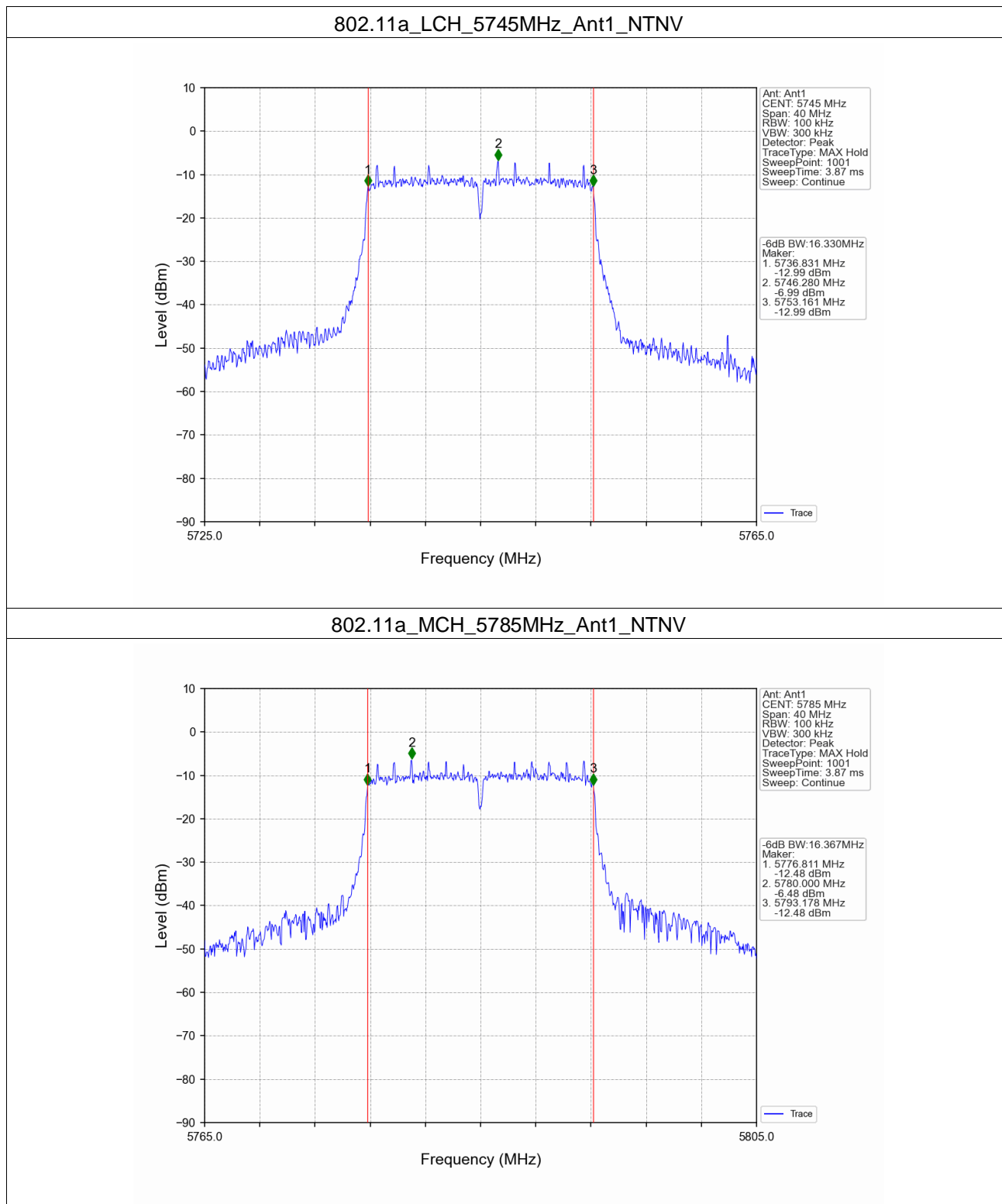


## 2.2 6dB BW

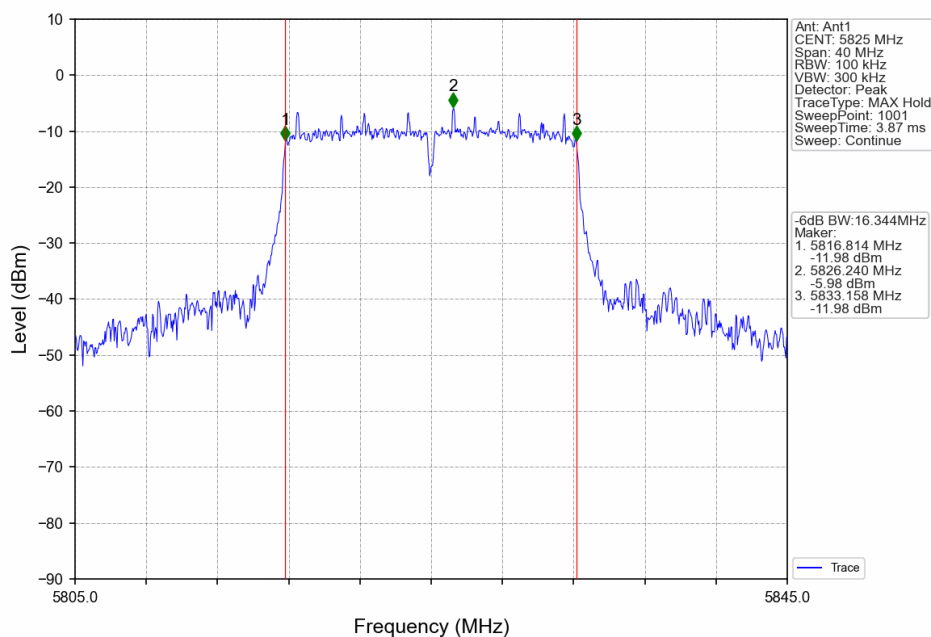
### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.330	$\geq 0.5$	Pass
		5785	1	16.367	$\geq 0.5$	Pass
		5825	1	16.344	$\geq 0.5$	Pass
802.11n (HT40)	SISO	5755	1	35.116	$\geq 0.5$	Pass
		5795	1	35.102	$\geq 0.5$	Pass
802.11ac (VHT80)	SISO	5775	1	75.098	$\geq 0.5$	Pass

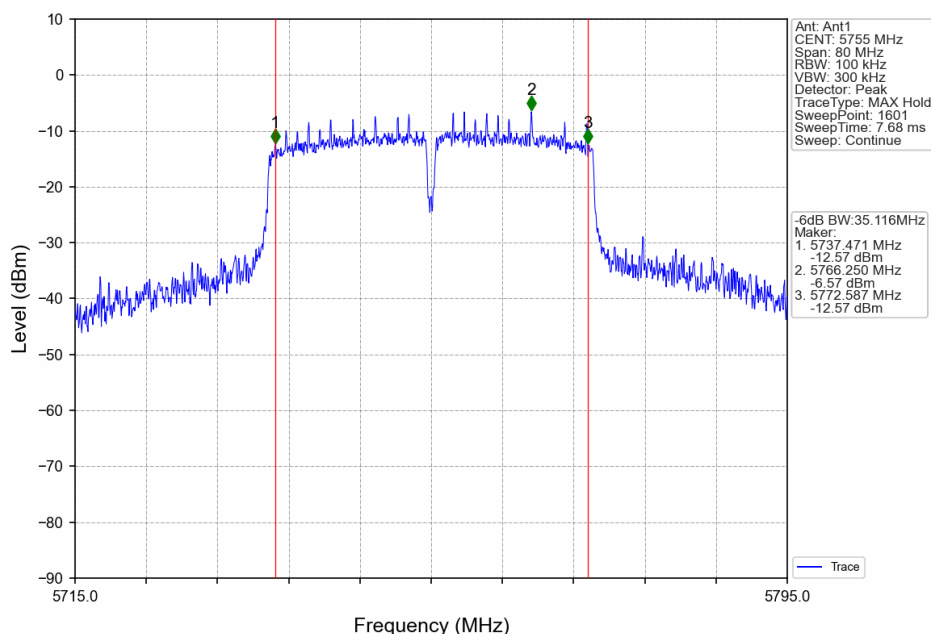
### 2.2.2 Test Graph



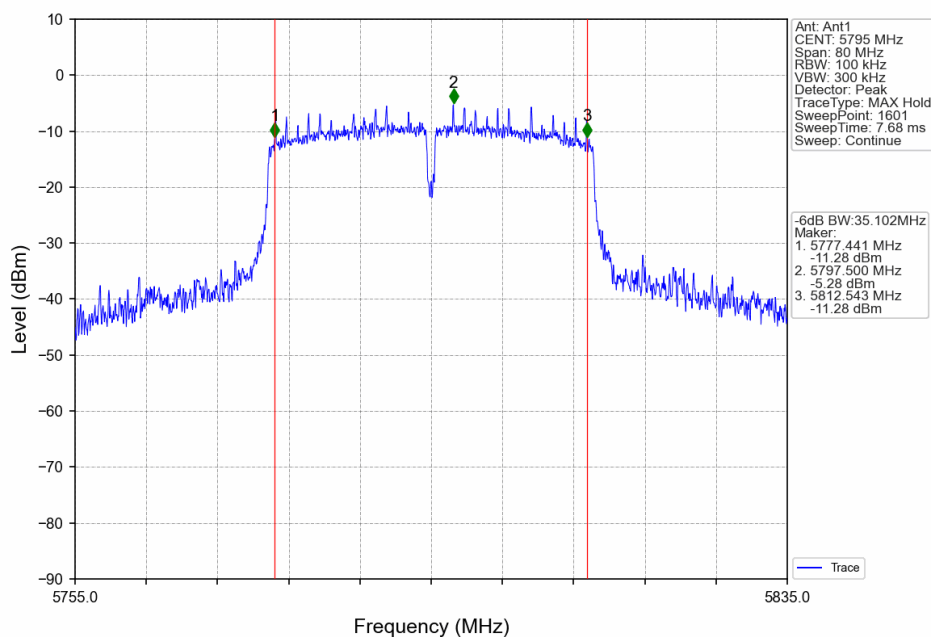
### 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



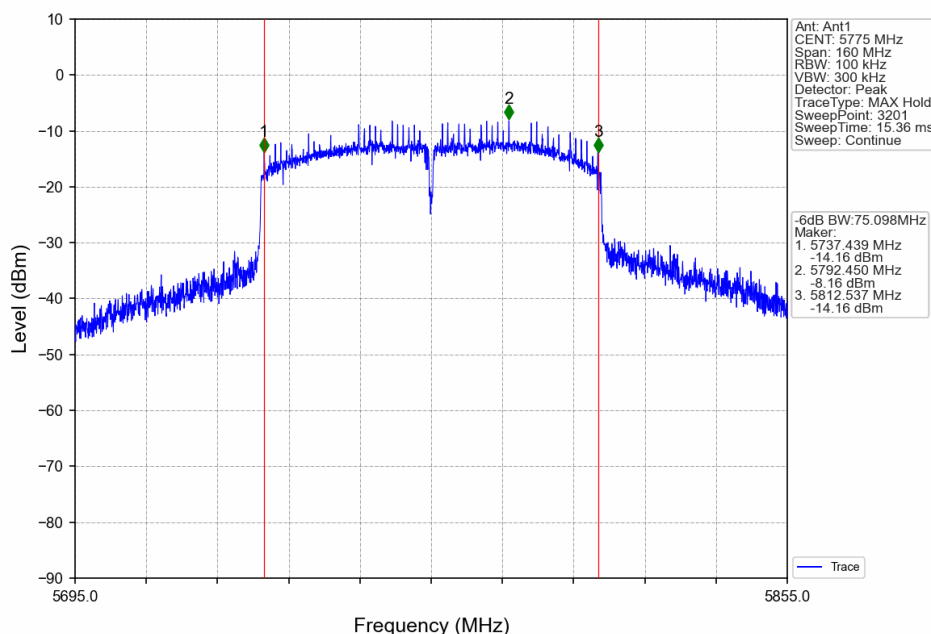
### 802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



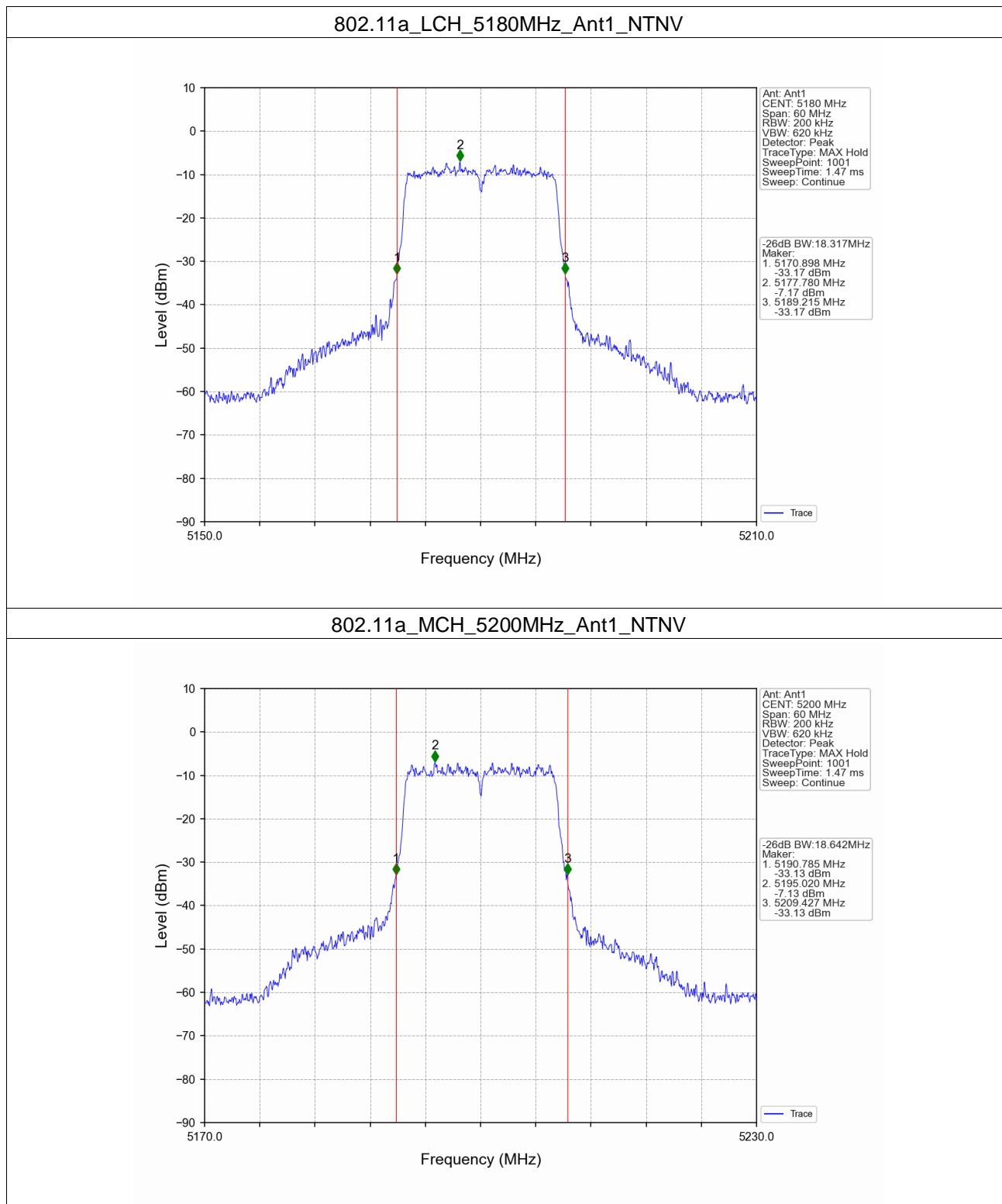


### 2.3 26dB BW

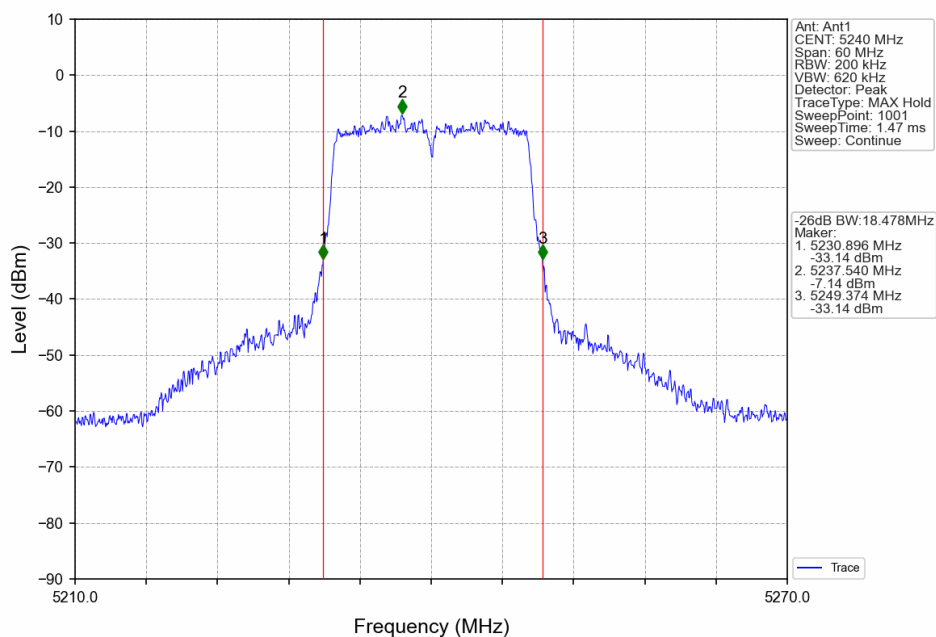
#### 2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	18.317	Pass
		5200	1	18.642	Pass
		5240	1	18.478	Pass
		5260	1	18.395	Pass
		5300	1	18.305	Pass
		5320	1	18.361	Pass
		5500	1	18.671	Pass
		5580	1	18.288	Pass
		5700	1	18.443	Pass
802.11n (HT40)	SISO	5190	1	39.636	Pass
		5230	1	40.340	Pass
		5270	1	40.217	Pass
		5310	1	41.022	Pass
		5510	1	40.544	Pass
		5550	1	41.048	Pass
		5670	1	40.883	Pass
802.11ac (VHT80)	SISO	5210	1	81.040	Pass
		5290	1	94.635	Pass
		5530	1	97.190	Pass
		5610	1	106.461	Pass

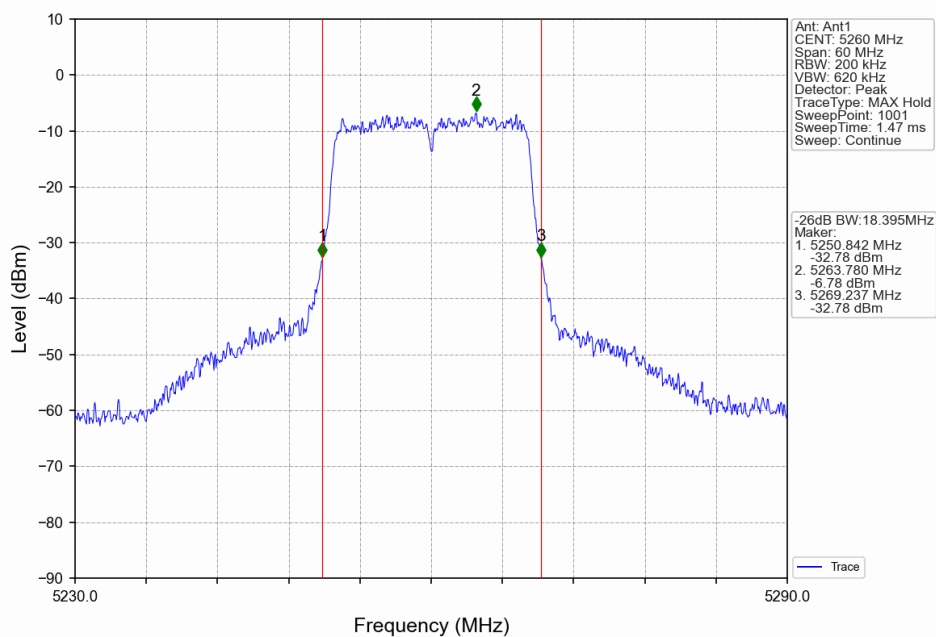
### 2.3.2 Test Graph



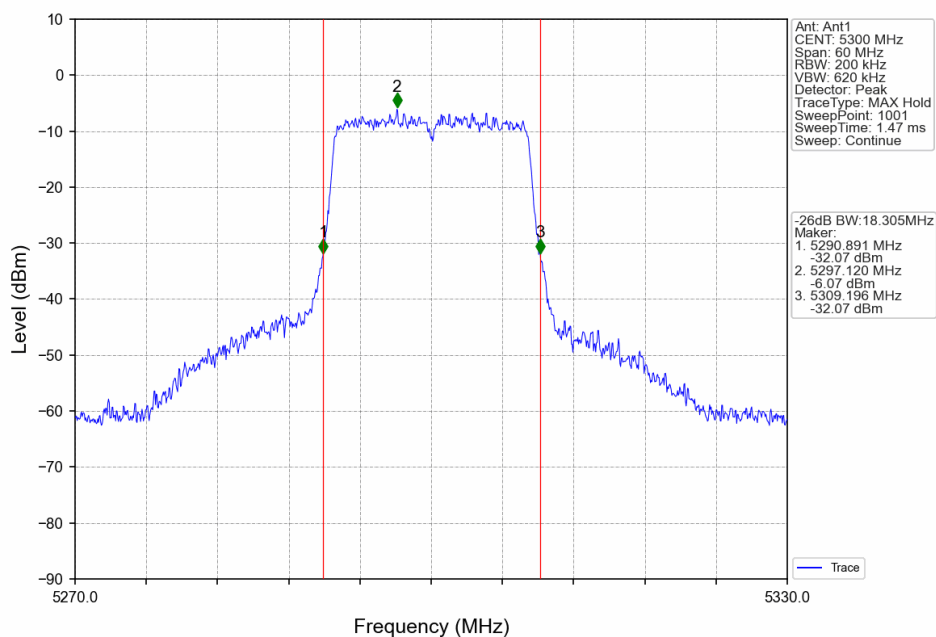
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



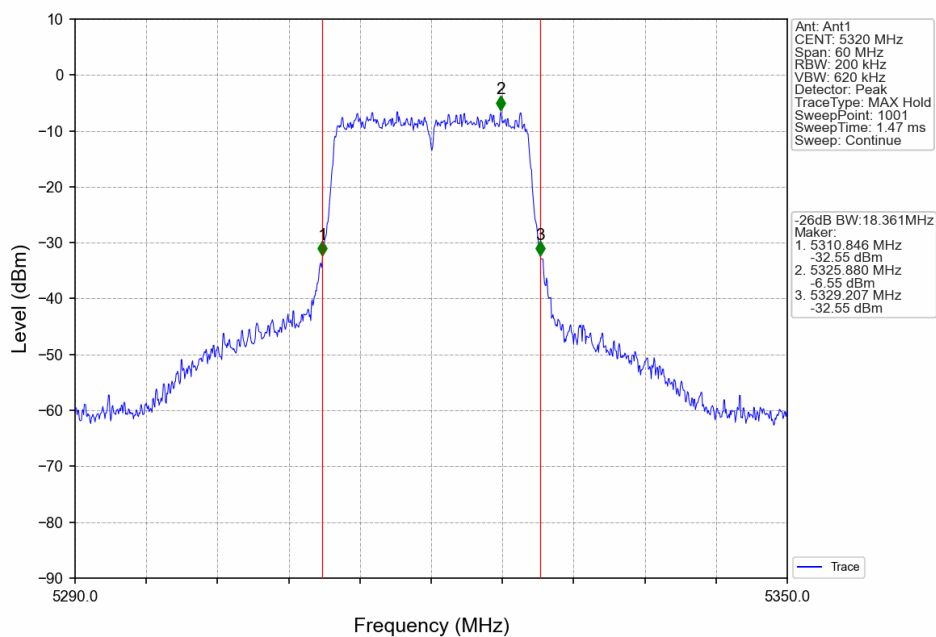
802.11a\_LCH\_5260MHz\_Ant1\_NTNV



802.11a\_MCH\_5300MHz\_Ant1\_NTNV

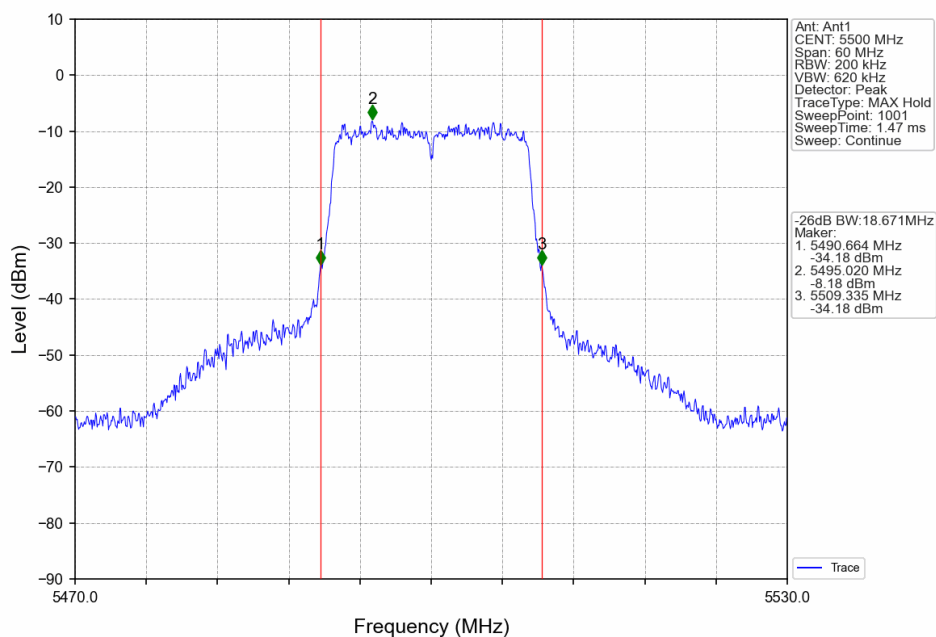


802.11a\_HCH\_5320MHz\_Ant1\_NTNV

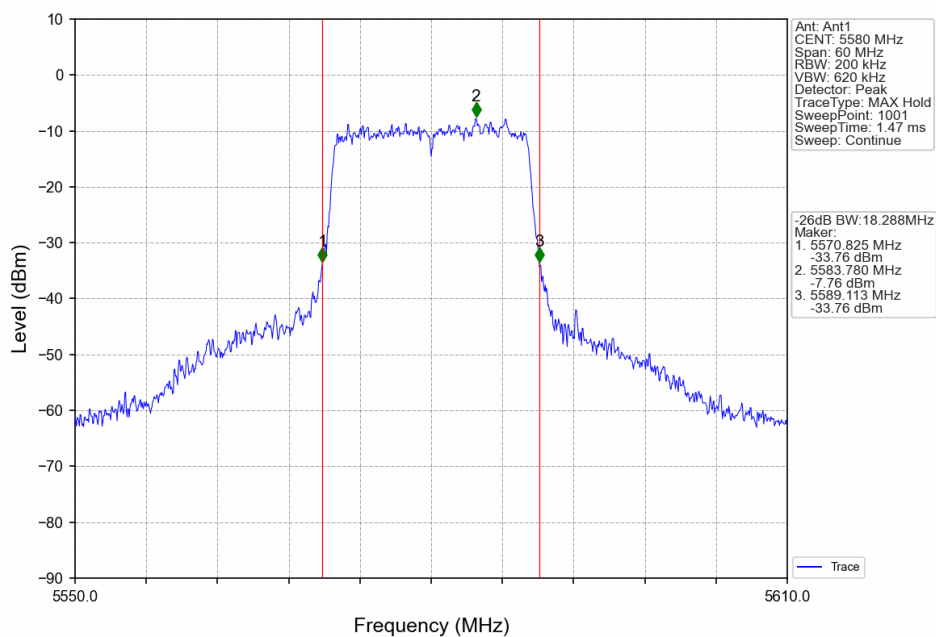




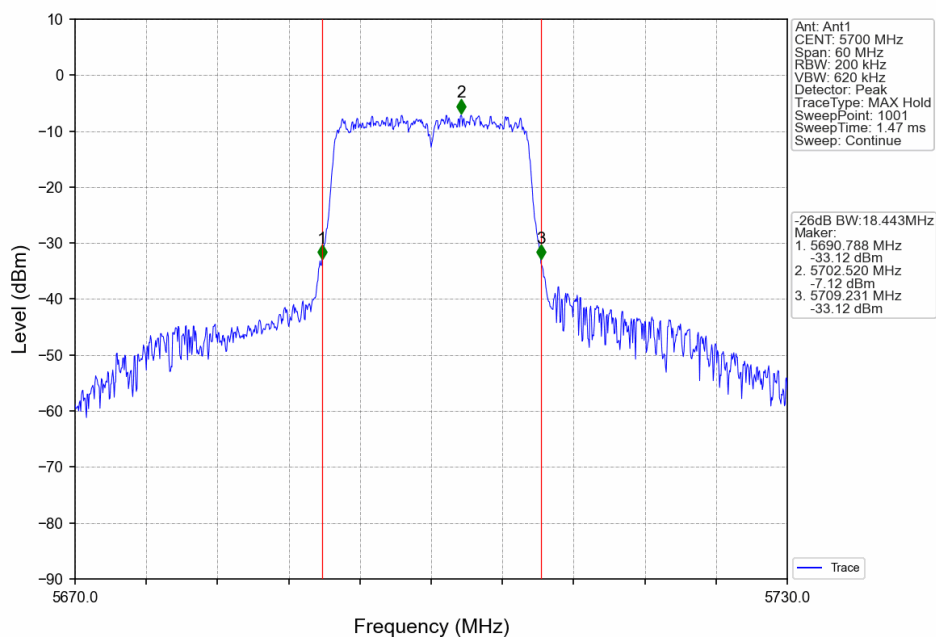
### 802.11a\_LCH\_5500MHz\_Ant1\_NTNV



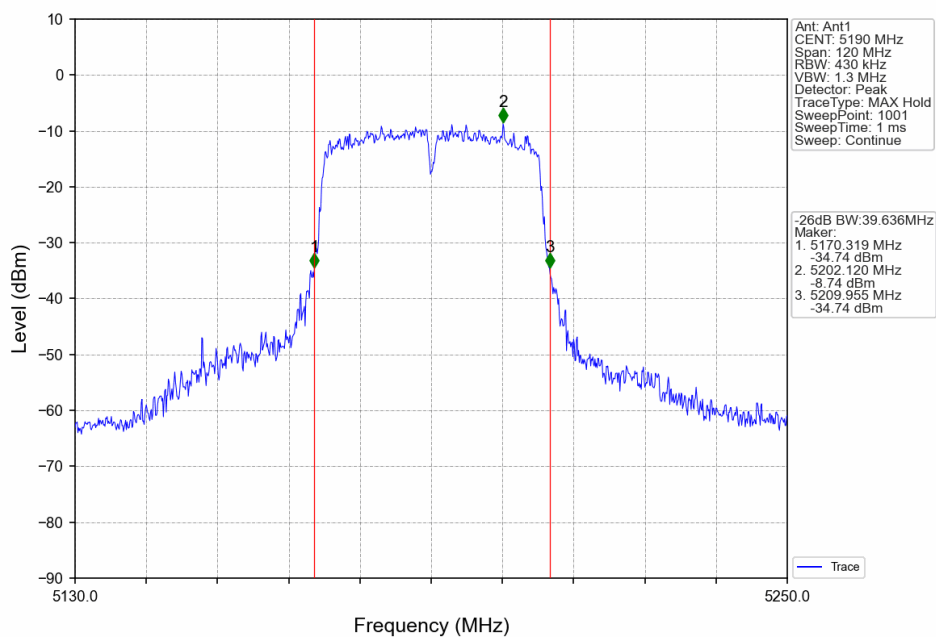
### 802.11a\_MCH\_5580MHz\_Ant1\_NTNV



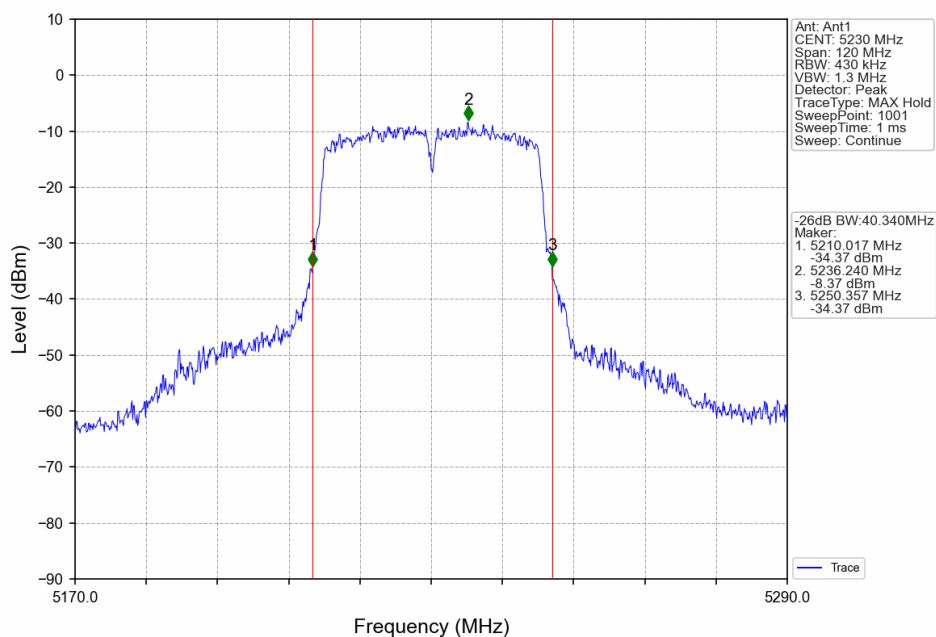
802.11a\_HCH\_5700MHz\_Ant1\_NTNV



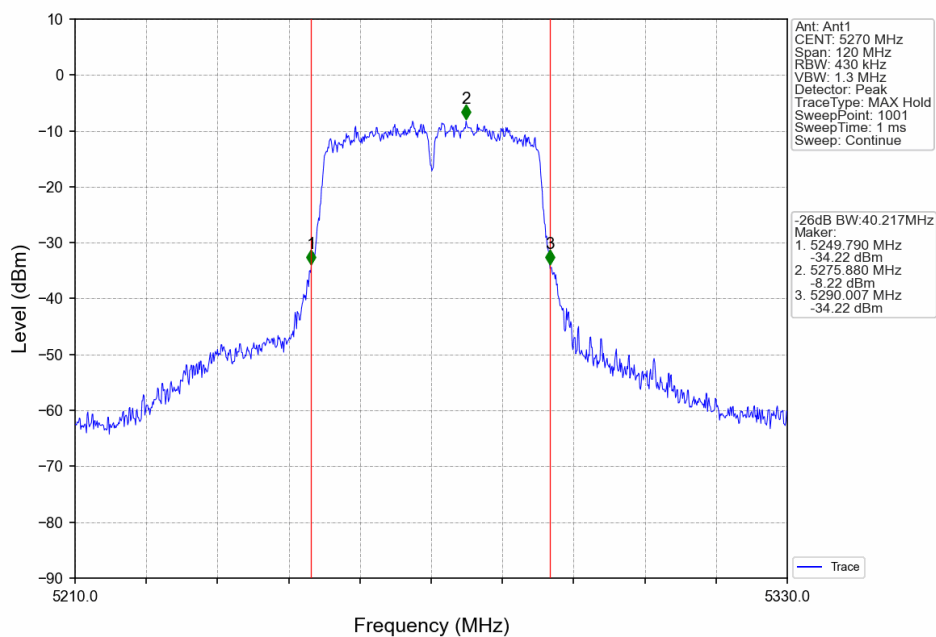
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



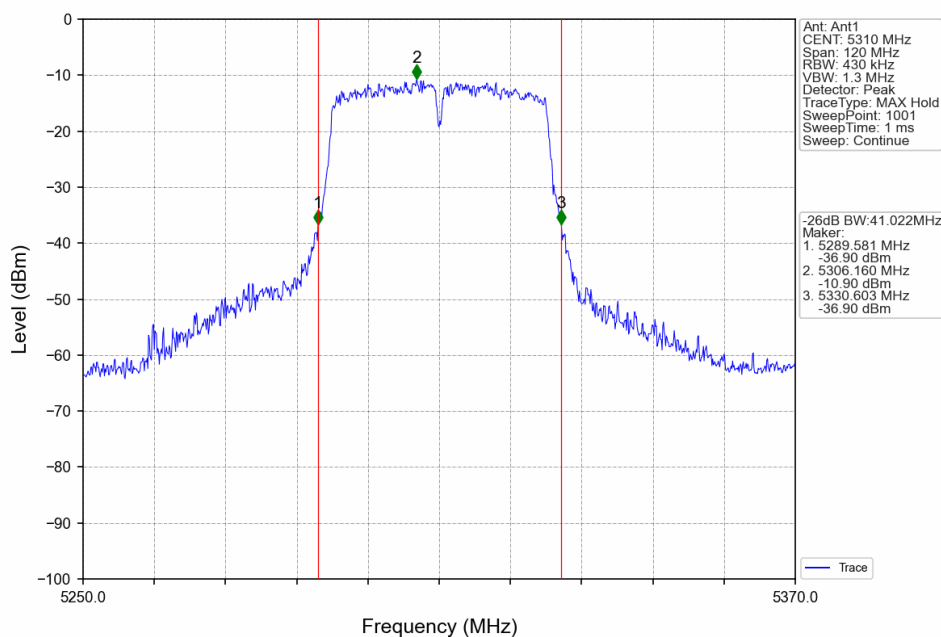
802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



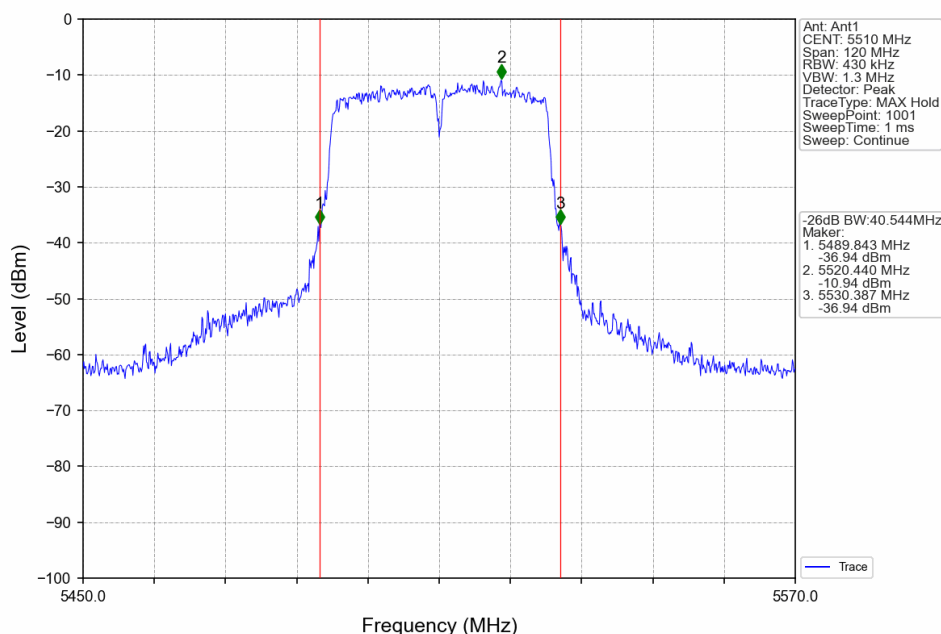
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV

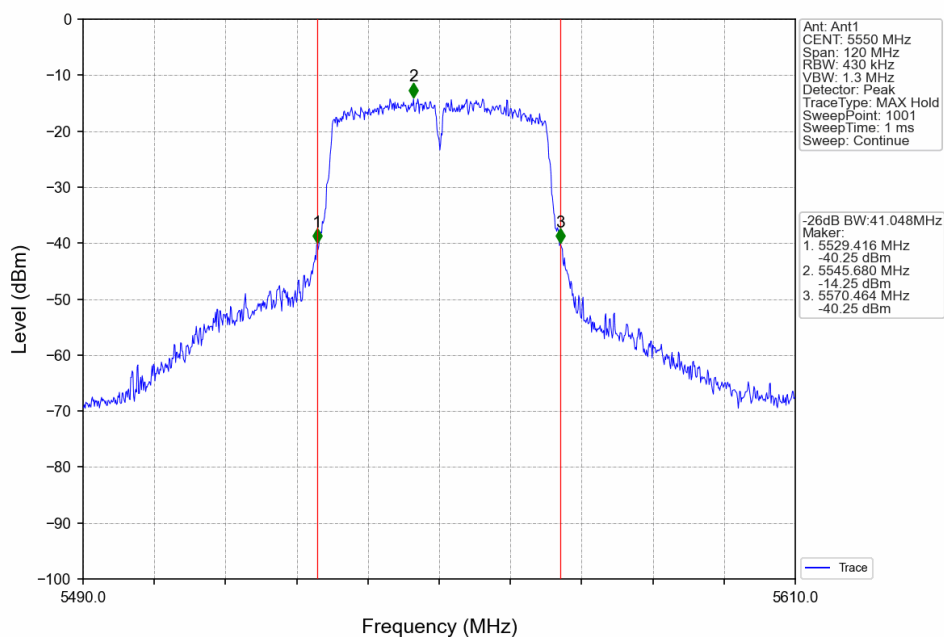


802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV





802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV

