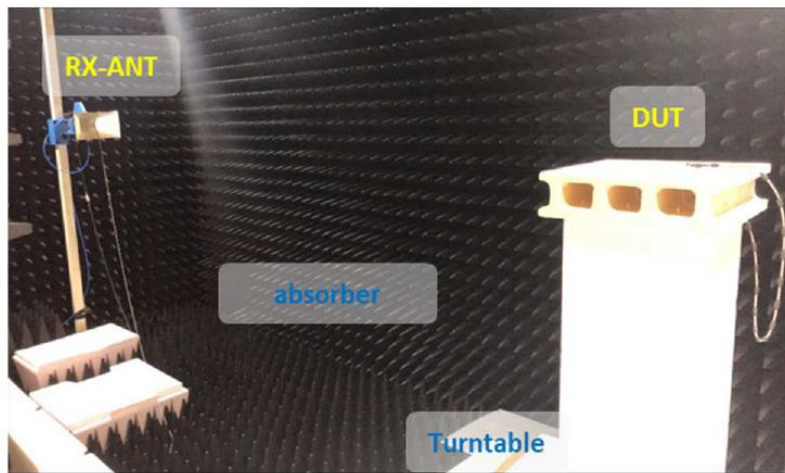


Antenna Report

Test Data

- 試験日/Date : 2024/2/28~2024/3/5
- 試験担当者/PIC : 日星電気株式会社 廣瀬敏晃/NISSEI ELECTRIC CO.,LTD. Toshiaki Hirose
- 校正済み測定機器/Calibrated measuring instruments :
 - ・ 測定ANT/Measurement ANT : ETS-LINDGREN 3115 (1-18GHz)
 - ・ 基準ANT/Reference ANT : ETS-LINDGREN 3160-03 (1.7-2.6GHz) / 3160-05 (3.95-5.85GHz)
 - ・ 測定器/measuring instrument : P9372A (Keysight network analyzer)
- 測定用ソフトウェア/Software : アンテナゲイン測定システム (日星電気株式会社) /
Antenna Gain Measurement System (NISSEI ELECTRIC CO.,LTD.)
- テストセットアップ/Setup :



- 測定方法/Method :
 - ・ 測定距離/Measured distance : 3m (高さ1.5m/Height 1.5m)
 - ・ 測定範囲/Range of measurement : 360度/5度ステップ/360 deg/5 deg step
 - ・ 測定レイアウト/Measurement layout : 測定環境は上記レイアウト
Measurement layout is set up above

Antenna Report

Product Specification

■ モデル/Model: (Bluetooth) ANT2534-161A/M-AB



(Wi-Fi) ANT2525-161W/M-AB



■ アンテナタイプ/Antenna type: 逆Fアンテナ/Inverted F Antenna

■ コネクタタイプ/Connector type: MHF1 PLUG

■ ケーブル径/Cable diameter : ϕ 1.13

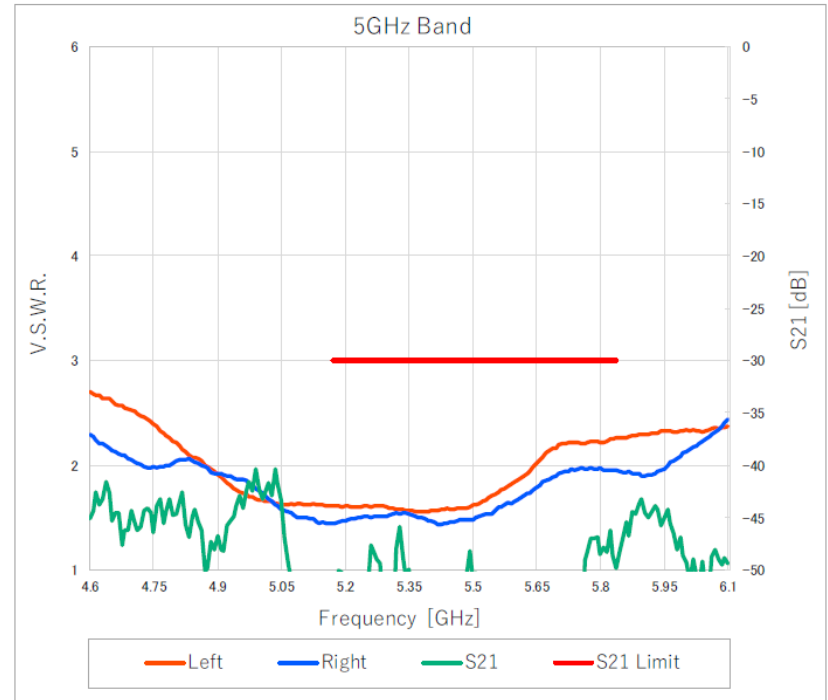
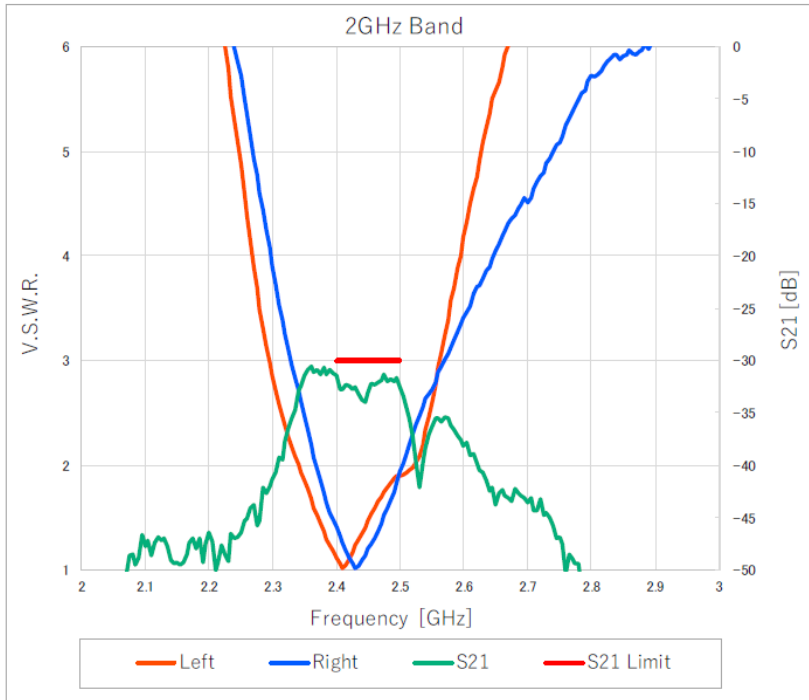
■ ケーブル種類/Cable Type : RF-MF50161

■ インピーダンス/Impedance : 50 Ω

■ ケーブル長/Cable Length: (Bluetooth) ANT2534-161A/M-AB:177mm
(Wi-Fi) ANT2525-161W/M-AB:118mm

Antenna Report

Result (CID Only) : V.S.W.R.



Frequency [GHz]	VSWR		Isolation [dB]
	Left	Right	
2.402	1.18	1.48	31.16
2.480	1.93	2.12	34.66
Min.Freq.	2.41	2.43	2.48
Min.Value	1.01	1.01	31.36

Frequency [GHz]	VSWR		Isolation [dB]
	Left	Right	
5.170	1.63	1.46	55.75
5.835	2.29	1.92	43.70
Min.Freq.	5.38	5.42	5.33
Min.Value	1.55	1.44	45.85

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
 Antenna RIGHT

• 2GHz band **【BT】**

Frequency [GHz]	Plane	Polarization H/V	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
2.402	XY	H	0.71	-3.51	0.45	0.57	-2.42	-2.66
		V	-4.49	-8.96	0.13			
	ZX	H	-7.12	-10.23	0.09	0.51	-2.91	
		V	-2.44	-3.81	0.42			
2.441	XY	H	0.52	-3.50	0.45	0.59	-2.32	-2.72
		V	-3.67	-8.54	0.14			
	ZX	H	-8.01	-11.14	0.08	0.48	-3.15	
		V	-2.19	-3.90	0.41			
2.480	XY	H	0.12	-4.02	0.40	0.55	-2.63	-2.94
		V	-4.50	-8.25	0.15			
	ZX	H	-6.95	-9.57	0.11	0.47	-3.28	
		V	-3.05	-4.45	0.36			

Frequency [GHz]	Plane	Polarization H/V	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
2.402	XY	H	0.71	-4.03	0.40	0.53	-2.72	-2.98
		V	-3.10	-8.59	0.14			
	ZX	H	-3.34	-8.30	0.15	0.47	-3.25	
		V	-2.44	-4.87	0.33			
2.441	XY	H	0.52	-3.92	0.41	0.57	-2.47	-2.84
		V	-2.26	-7.95	0.16			
	ZX	H	-2.99	-7.92	0.16	0.47	-3.24	
		V	-2.19	-5.06	0.31			
2.480	XY	H	0.12	-4.53	0.35	0.52	-2.82	-3.02
		V	-3.19	-7.69	0.17			
	ZX	H	-3.23	-7.51	0.18	0.48	-3.23	
		V	-3.05	-5.25	0.30			

Peak gain for this band

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
 Antenna RIGHT

• 2GHz band 【WLAN 2.4GHz】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
2.412	XY	H	0.63	-3.28	0.47	0.59	-2.31	-2.62
		V	-3.75	-9.28	0.12			
	ZX	H	-5.38	-10.23	0.09	0.51	-2.96	
		V	-2.11	-3.86	0.41			
2.437	XY	H	0.27	-3.27	0.47	0.59	-2.27	-2.51
		V	-2.95	-9.15	0.12			
	ZX	H	-5.17	-10.09	0.10	0.53	-2.77	
		V	-2.08	-3.66	0.43			
2.462	XY	H	0.03	-3.74	0.42	0.54	-2.69	-2.80
		V	-3.19	-9.38	0.12			
	ZX	H	-5.02	-9.23	0.12	0.51	-2.90	
		V	-2.39	-4.05	0.39			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
2.412	XY	H	0.63	-3.85	0.41	0.56	-2.55	-2.95
		V	-2.96	-8.43	0.14			
	ZX	H	-1.99	-8.16	0.15	0.46	-3.38	
		V	-2.11	-5.15	0.31			
2.437	XY	H	0.27	-3.75	0.42	0.58	-2.38	-2.73
		V	-2.74	-8.06	0.16			
	ZX	H	-1.06	-7.47	0.18	0.49	-3.10	
		V	-2.08	-5.07	0.31			
2.462	XY	H	0.03	-4.14	0.39	0.54	-2.66	-2.90
		V	-2.78	-8.07	0.16			
	ZX	H	-0.76	-7.04	0.20	0.48	-3.15	
		V	-2.39	-5.43	0.29			

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
Antenna RIGHT

• W52 band ① 【WLAN 5GHz W52 20MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.180	XY	H	-1.26	-5.36	0.29	0.82	-0.85	-1.59
		V	0.75	-2.75	0.53			
	ZX	H	0.30	-4.80	0.33	0.56	-2.49	
		V	-3.38	-6.35	0.23			
5.220	XY	H	-0.87	-5.18	0.30	0.86	-0.68	-1.42
		V	0.60	-2.58	0.55			
	ZX	H	0.17	-4.70	0.34	0.59	-2.31	
		V	-2.88	-6.05	0.25			
5.240	XY	H	-1.08	-5.29	0.30	0.80	-0.97	-1.66
		V	0.18	-2.98	0.50			
	ZX	H	-0.21	-4.98	0.32	0.57	-2.48	
		V	-3.46	-6.06	0.25			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.180	XY	H	0.38	-5.01	0.32	0.68	-1.67	-1.44
		V	0.75	-4.38	0.37			
	ZX	H	0.30	-4.63	0.34	0.75	-1.22	
		V	1.66	-3.86	0.41			
5.220	XY	H	0.57	-4.83	0.33	0.71	-1.52	-1.30
		V	0.60	-4.25	0.38			
	ZX	H	0.17	-4.56	0.35	0.78	-1.09	
		V	1.64	-3.69	0.43			
5.240	XY	H	0.53	-4.90	0.32	0.67	-1.73	-1.41
		V	0.18	-4.58	0.35			
	ZX	H	-0.21	-4.70	0.34	0.77	-1.11	
		V	1.40	-3.60	0.44			

 Peak gain for this band

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
Antenna RIGHT

• W52 band ② 【WLAN 5GHz W52 40MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.190	XY	H	-0.81	-5.23	0.30	0.78	-1.07	-1.77
		V	-0.22	-3.18	0.48			
	ZX	H	-0.32	-5.18	0.30	0.55	-2.60	
		V	-3.74	-6.09	0.25			
5.230	XY	H	-0.95	-5.20	0.30	0.79	-1.05	-1.76
		V	-0.38	-3.16	0.48			
	ZX	H	-0.46	-5.20	0.30	0.55	-2.61	
		V	-4.02	-6.09	0.25			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.190	XY	H	0.19	-4.95	0.32	0.65	-1.86	-1.55
		V	-0.22	-4.79	0.33			
	ZX	H	-0.32	-4.88	0.33	0.75	-1.26	
		V	1.15	-3.73	0.42			
5.230	XY	H	0.55	-4.89	0.32	0.66	-1.81	-1.50
		V	-0.38	-4.75	0.34			
	ZX	H	-0.46	-4.81	0.33	0.76	-1.20	
		V	1.01	-3.69	0.43			

• W52 band ③ 【WLAN 5GHz W52 80MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.210	XY	H	-0.77	-5.12	0.31	0.77	-1.12	-1.79
		V	-0.43	-3.33	0.46			
	ZX	H	-0.35	-5.17	0.30	0.55	-2.58	
		V	-3.99	-6.05	0.25			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.210	XY	H	0.49	-4.89	0.32	0.65	-1.89	-1.57
		V	-0.43	-4.90	0.32			
	ZX	H	-0.35	-4.84	0.33	0.74	-1.28	
		V	0.69	-3.80	0.42			

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
Antenna RIGHT

• W58 band ① 【WLAN 5GHz W58 20MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.745	XY	H	-0.53	-4.86	0.33	0.66	-1.82	-2.41
		V	-0.55	-4.79	0.33			
	ZX	H	-1.67	-6.37	0.23	0.49	-3.10	
		V	-2.21	-5.85	0.26			
5.785	XY	H	-0.50	-4.77	0.33	0.67	-1.72	-2.25
		V	-0.37	-4.70	0.34			
	ZX	H	-1.12	-6.11	0.25	0.52	-2.85	
		V	-2.11	-5.63	0.27			
5.825	XY	H	-0.98	-5.09	0.31	0.64	-1.92	-2.28
		V	-0.11	-4.77	0.33			
	ZX	H	-0.70	-5.87	0.26	0.54	-2.69	
		V	-1.72	-5.53	0.28			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.745	XY	H	-0.25	-5.15	0.31	0.55	-2.62	-2.31
		V	-0.55	-6.18	0.24			
	ZX	H	0.11	-5.64	0.27	0.63	-2.02	
		V	0.20	-4.51	0.35			
5.785	XY	H	0.01	-5.05	0.31	0.56	-2.55	-2.17
		V	-0.37	-6.15	0.24			
	ZX	H	-0.03	-5.43	0.29	0.66	-1.82	
		V	0.61	-4.30	0.37			
5.825	XY	H	-0.14	-5.24	0.30	0.54	-2.68	-2.23
		V	-0.11	-6.20	0.24			
	ZX	H	-0.20	-5.28	0.30	0.66	-1.83	
		V	0.44	-4.43	0.36			

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
Antenna RIGHT

• W58 band ② 【WLAN 5GHz W58 40MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.755	XY	H	-0.51	-4.96	0.32	0.65	-1.85	-2.26
		V	0.14	-4.76	0.33			
	ZX	H	-0.54	-5.80	0.26	0.53	-2.72	
		V	-1.90	-5.66	0.27			
5.795	XY	H	-0.59	-5.08	0.31	0.64	-1.92	-2.35
		V	0.09	-4.79	0.33			
	ZX	H	-0.15	-5.85	0.26	0.52	-2.83	
		V	-1.66	-5.84	0.26			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.755	XY	H	-0.16	-5.24	0.30	0.54	-2.68	-2.25
		V	0.14	-6.21	0.24			
	ZX	H	0.01	-5.18	0.30	0.65	-1.86	
		V	0.07	-4.58	0.35			
5.795	XY	H	-0.07	-5.28	0.30	0.54	-2.69	-2.28
		V	0.09	-6.16	0.24			
	ZX	H	0.03	-5.12	0.31	0.65	-1.90	
		V	-0.02	-4.72	0.34			

• W58 band ③ 【WLAN 5GHz W58 80MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.775	XY	H	-0.92	-5.42	0.29	0.59	-2.28	-2.75
		V	-0.25	-5.16	0.30			
	ZX	H	-0.80	-5.98	0.25	0.47	-3.28	
		V	-2.13	-6.64	0.22			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.775	XY	H	-0.02	-5.64	0.27	0.50	-3.02	-2.59
		V	-0.25	-6.46	0.23			
	ZX	H	0.28	-5.26	0.30	0.60	-2.20	
		V	-0.43	-5.16	0.31			

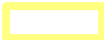
Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
 Antenna LEFT

• 2GHz band 【WLAN 2.4GHz】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
2.412	XY	H	0.43	-5.17	0.30	0.48	-3.21	-3.22
		V	-4.44	-7.59	0.17			
	ZX	H	-6.12	-8.89	0.13	0.48	-3.23	
		V	-2.75	-4.61	0.35			
2.437	XY	H	0.58	-5.08	0.31	0.48	-3.15	-3.35
		V	-5.12	-7.61	0.17			
	ZX	H	-7.09	-9.74	0.11	0.44	-3.55	
		V	-2.72	-4.75	0.33			
2.462	XY	H	0.34	-5.39	0.29	0.47	-3.24	-3.76
		V	-4.50	-7.33	0.18			
	ZX	H	-8.21	-11.29	0.07	0.37	-4.35	
		V	-3.13	-5.33	0.29			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
2.412	XY	H	2.19	-4.34	0.37	0.51	-2.94	-3.59
		V	-4.44	-8.53	0.14			
	ZX	H	-6.12	-9.48	0.11	0.37	-4.36	
		V	-2.75	-5.96	0.25			
2.437	XY	H	1.98	-4.32	0.37	0.50	-2.98	-3.69
		V	-5.12	-8.77	0.13			
	ZX	H	-6.92	-10.18	0.10	0.35	-4.52	
		V	-2.72	-5.90	0.26			
2.462	XY	H	1.34	-4.69	0.34	0.47	-3.24	-4.04
		V	-4.50	-8.70	0.14			
	ZX	H	-6.92	-11.02	0.08	0.31	-5.02	
		V	-3.13	-6.28	0.24			

 Peak gain for this band

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
Antenna LEFT

• W52 band ① 【WLAN 5GHz W52 20MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.180	XY	H	-6.65	-9.90	0.10	0.69	-1.63	-2.09
		V	2.44	-2.34	0.58			
	ZX	H	1.21	-4.44	0.36	0.55	-2.60	
		V	-4.29	-7.23	0.19			
5.220	XY	H	-5.80	-9.17	0.12	0.69	-1.64	-2.20
		V	2.64	-2.48	0.56			
	ZX	H	0.58	-4.85	0.33	0.52	-2.86	
		V	-4.41	-7.19	0.19			
5.240	XY	H	-5.33	-8.94	0.13	0.67	-1.76	-2.28
		V	2.59	-2.68	0.54			
	ZX	H	0.51	-4.84	0.33	0.52	-2.88	
		V	-3.77	-7.28	0.19			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.180	XY	H	-1.34	-7.57	0.17	0.69	-1.64	-1.59
		V	2.44	-2.92	0.51			
	ZX	H	2.14	-3.38	0.46	0.70	-1.55	
		V	-2.52	-6.18	0.24			
5.220	XY	H	-1.24	-7.30	0.19	0.69	-1.59	-1.68
		V	2.64	-2.95	0.51			
	ZX	H	2.12	-3.76	0.42	0.66	-1.78	
		V	-1.91	-6.12	0.24			
5.240	XY	H	-1.30	-7.23	0.19	0.69	-1.59	-1.72
		V	2.59	-2.98	0.50			
	ZX	H	1.85	-3.81	0.42	0.65	-1.85	
		V	-1.98	-6.25	0.24			

Antenna Report

■ Result (CID Only) : Gain (includes cable loss) Antenna LEFT

• W52 band ② 【WLAN 5GHz W52 40MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.190	XY	H	-6.51	-9.70	0.11	0.72	-1.43	-1.98
		V	2.63	-2.13	0.61			
	ZX	H	1.16	-4.51	0.35	0.55	-2.61	
		V	-4.44	-7.12	0.19			
5.230	XY	H	-5.53	-9.10	0.12	0.69	-1.63	-2.16
		V	2.72	-2.49	0.56			
	ZX	H	0.76	-4.69	0.34	0.53	-2.77	
		V	-3.72	-7.24	0.19			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.190	XY	H	-1.30	-7.36	0.18	0.72	-1.43	-1.48
		V	2.63	-2.71	0.54			
	ZX	H	2.02	-3.41	0.46	0.70	-1.52	
		V	-2.21	-6.05	0.25			
5.230	XY	H	-1.60	-7.27	0.19	0.71	-1.51	-1.61
		V	2.72	-2.85	0.52			
	ZX	H	1.98	-3.62	0.43	0.67	-1.71	
		V	-2.21	-6.20	0.24			

• W52 band ③ 【WLAN 5GHz W52 80MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.210	XY	H	-5.83	-9.19	0.12	0.70	-1.52	-2.05
		V	2.54	-2.34	0.58			
	ZX	H	1.44	-4.58	0.35	0.54	-2.66	
		V	-3.95	-7.13	0.19			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.210	XY	H	-1.55	-7.24	0.19	0.71	-1.48	-1.53
		V	2.54	-2.82	0.52			
	ZX	H	1.90	-3.54	0.44	0.70	-1.58	
		V	-2.04	-5.97	0.25			

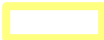
Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
Antenna LEFT

• W58 band ① 【WLAN 5GHz W58 20MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	± 100° Average[dBi]	± 100° Avg. linear value	Composite linear value	Composite [dBi]	± 100° XY-ZX Avg. Gain [dBi]
5.745	XY	H	-1.34	-4.89	0.32	0.90	-0.48	-1.44
		V	1.98	-2.43	0.57			
	ZX	H	0.85	-5.36	0.29	0.54	-2.68	
		V	-1.84	-6.05	0.25			
5.785	XY	H	-0.79	-4.79	0.33	0.90	-0.48	-1.38
		V	2.09	-2.49	0.56			
	ZX	H	0.80	-5.44	0.29	0.56	-2.51	
		V	-0.93	-5.61	0.28			
5.825	XY	H	-0.94	-5.14	0.31	0.80	-0.95	-1.78
		V	1.17	-3.03	0.50			
	ZX	H	-0.02	-5.90	0.26	0.53	-2.80	
		V	-0.85	-5.72	0.27			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.745	XY	H	-0.69	-4.45	0.36	0.91	-0.41	-1.31
		V	4.04	-2.59	0.55			
	ZX	H	0.85	-5.57	0.28	0.57	-2.45	
		V	-0.06	-5.35	0.29			
5.785	XY	H	-0.67	-4.36	0.37	0.91	-0.39	-1.25
		V	3.59	-2.62	0.55			
	ZX	H	0.80	-5.67	0.27	0.59	-2.31	
		V	0.09	-5.00	0.32			
5.825	XY	H	-0.94	-4.59	0.35	0.84	-0.77	-1.54
		V	3.03	-3.10	0.49			
	ZX	H	-0.02	-5.91	0.26	0.56	-2.48	
		V	-0.52	-5.11	0.31			

 Peak gain for this band

Antenna Report

■ Result (CID Only) : Gain (includes cable loss)
Antenna LEFT

• W58 band ② 【WLAN 5GHz W58 40MHz band width】

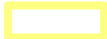
Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.755	XY	H	-1.33	-4.80	0.33	0.93	-0.31	-1.26
		V	2.25	-2.22	0.60			
	ZX	H	0.94	-5.29	0.30	0.56	-2.48	
		V	-1.54	-5.71	0.27			
5.795	XY	H	-0.74	-4.91	0.32	0.87	-0.58	-1.47
		V	1.85	-2.58	0.55			
	ZX	H	0.46	-5.54	0.28	0.55	-2.58	
		V	-1.50	-5.65	0.27			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.755	XY	H	-0.61	-4.40	0.36	0.93	-0.31	-1.19
		V	4.04	-2.46	0.57			
	ZX	H	0.94	-5.49	0.28	0.59	-2.31	
		V	-0.33	-5.15	0.31			
5.795	XY	H	-0.74	-4.42	0.36	0.90	-0.47	-1.29
		V	3.78	-2.70	0.54			
	ZX	H	0.46	-5.69	0.27	0.59	-2.31	
		V	0.34	-4.99	0.32			

• W58 band ③ 【WLAN 5GHz W58 80MHz band width】

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	±100° Average[dBi]	±100° Avg. linear value	Composite linear value	Composite [dBi]	±100° XY-ZX Avg. Gain [dBi]
5.775	XY	H	-0.99	-4.97	0.32	0.88	-0.53	-1.44
		V	1.95	-2.47	0.57			
	ZX	H	0.18	-5.51	0.28	0.55	-2.59	
		V	-1.23	-5.70	0.27			

Frequency [GHz]	Plane	Plarization H(Horizontal) /V(Vertical)	Peak [dBi]	360° Average[dBi]	360° Avg. linear value	Composite linear value	Composite [dBi]	360° XY-ZX Avg. Gain [dBi]
5.775	XY	H	-0.69	-4.49	0.36	0.91	-0.43	-1.28
		V	3.80	-2.59	0.55			
	ZX	H	0.18	-5.68	0.27	0.58	-2.35	
		V	0.22	-5.06	0.31			

 Peak gain for this band