

RADIO TEST DATA SHEET

D.U.T. Information

Test Date:	12/20/2024-12/21/2024, 12/23/2024
Service Request #:	P0572N00-EME-00004
Specification Limit:	1.6
Product Name:	VTNeo
FCC ID:	AZ499FT7183
Product Vintage:	PP
Max. Cal. SAR required:	Yes
Product Model #:	B20CJMBE2AN (PMMN2000A)
Product Description:	V200 Body Worn Camera
Frequency Band:	WLAN 2.4GHz
Serial Number:	952EAY0091, 952EAY0105, 952EAY0026, 952EAY0038

Test By: Haziq, Hafizal, Ruzaini

Responsible Engineer: Yeng Yee Yeong

Reviewed By: Saw Sun Hock

SAR Summary by Body Position								
	Measured		Adjusted		Max Calc.		Simultaneous Calc	
	1g SAR	10g SAR	1g SAR	10g SAR	1g SAR	10g SAR	1g SAR	10g SAR
Body	0.113	0.071	0.114	0.078	0.129	0.080		
Face								
Head								
Hand								

Comments:

* If the previous results are based on the different tested model, the reference tested model will need to be indicated in the comments box

Test Plan is generated by applying Delta test WI-466 with reference to P0572N00-EME-00003 for FCC/ISED/Whole Range (1g).

For RED (10g), EU Drill Down is applied, due the Max Power update on PP vintage. (Max Calc. is applied)

Refer to Row 1111 & 1094 (Design Changes Tracking and NPI program: Design Change Program).

B20CJMBE2AN (PMMN2001A) Yellow Model is by similarity to B20CJMBE2AN (PMMN2000A) Black Model.

SAR Testing will be conducted with the latest PP vintage softpot based on latest Max Power.

Smart Dock or New USB cable (PMKN4294A) can be used for DUT charging.

WC#1 will be used for SAR testing.

Apply SSMT and Sanity Check on 2nd unit (WC#2).

As this is a Body Worn Camera, only body configs assessment are required: <https://drive.google.com/drive/folders/1v2GqLqZyXL95nyCyG2jCFrits7IFYnNDA>

Use IEC tissue for all test configurations.

Pls capture the DUT positioning photos with scan# naming for each new config and place it at: https://drive.google.com/drive/folders/1uybrkP1mM3RR_P1zdWcriDlIPbdIqld

Trigger RE if the SAR is > 1MU (12% for WLAN 2.4GHz).

Test Equipment Information

Robot #:	DASY5-PG-03		
Probe Model#:	EX3DV4		
Probe SN:	7486		
Probe Calibration Date:	19/1/2024		
Probe Calibration Expiration Date:	19/1/2027		
DAE Model #:	DAE4		
DAE S/N:	1483		
DAE Calibration Date:	10/10/2022		
DAE Calibration Expiration Date:	10/10/2025		

*Previous SAR summary by body position								
	Measured		Adjusted		Max. Calc.		Simultaneous	
	1g- SAR	10g- SAR	1g- SAR	10g- SAR	1g- SAR	10g- SAR	1g- SAR	10g- SAR
Body	0.343	0.156	0.413	0.188	0.436	0.198		
Face								
Head								
Hand								

Start

Test Pos.	DUT Tech. Test mode	Tiss. Type	Phantom Stand	Cond.	Dielec Const	Tiss. Temp.	Serial Number	Antenna	Test Freq. (MHz)	Battery	Carry Access.	Cable Access.	DUT Max. TX Factor	Max. Pwr.	Tx time (min.)	Init. Pwr.	End. Pwr.	SAR Drift (dB)	Dim A	Dim B	Dim C	Dim D	Meas 1g SAR (W/kg)	Meas 10g SAR (W/kg)	Adj 1g SAR (W/kg)	Adj 10g SAR (W/kg)	Max. Calc. 1g SAR (W/kg)	Max. Calc. 10g SAR (W/kg)	Run#	Test Comment
																														Adj & Max Calc Formulas

Unit search

DUT/Camera Back facing phantom

Body	99.00%	IEC Tissue	ELI4 1109	1.60	38.9	22.5	663EAS0004	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.071	30	0.067		-0.76	14			10	0.343	0.156	0.413	0.188	0.436	0.198		Reference Scan from P0572N00-EME-00003: DAN(ABE)-AB-240925-07@
Body	99.00%	IEC Tissue	ELI5 1147	1.62	41.8	20.5	952EAY0026	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.025	30	0.022		-0.40	14			10	0.069	0.034	0.0764	0.0377	0.086	0.043	ABE-AB-241220-08	WC#3 (The SAR is lower, outlier for reference only)
Body	99.00%	IEC Tissue	ELI5 1147	1.62	41.8	20.5	952EAY0038	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.025	30	0.022		-0.31	14			10	0.070	0.036	0.0758	0.0387	0.086	0.044	ZIQ-AB-241220-09	WC#4 (The SAR is lower, outlier for reference only)
Body	99.00%	IEC Tissue	ELI5 1147	1.62	41.8	20.9	952EAY0091	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.025	30	0.022		0.42	14			10	0.113	0.052	0.114	0.052	0.129	0.059	ZIQ-AB-241220-10	WC#1
Body	99.00%	IEC Tissue	ELI5 1147	1.62	41.8	21.9	952EAY0105	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.025	30	0.022		0.39	14			10	0.103	0.046	0.104	0.047	0.118	0.053	ZIQ-AB-241221-01@	WC#2

Test Pos.	DUT Tech. Test mode	Tiss. Type	Phantom Stand	Cond.	Dielec Const	Tiss. Temp.	Serial Number	Antenna	Test Freq. (MHz)	Battery	Carry Access.	Cable Access.	DUT Max. TX Factor	Max. Pwr.	Tx time (min.)	Init. Pwr.	End. Pwr.	SAR Drift (dB)	Dim A	Dim B	Dim C	Dim D	Meas 1g SAR (W/kg)	Meas 10g SAR (W/kg)	Adj 1g SAR (W/kg)	Adj 10g SAR (W/kg)	Max. Calc. 1g SAR (W/kg)	Max. Calc. 10g SAR (W/kg)	Run#	Test Comment
Highest configuration at the Abdomen								802.11b	DUT/Camera Back facing phantom																				Reference Scan from P0572N00-EME-00003: DAN(ABE)-AB-240925-07@	
WLAN 2.4GHz (2412-2462MHz)																														
802.11b - 2.4GHz DSSS, 20MHz BW , 1 Mbps																														
Whole Range/FCC/ISED (1g)																														
Body	99.00%	IEC Tissue	ELI4 1109	1.60	38.9	22.5	663EAS0004	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.071	30	0.067		-0.76	14			10	0.343	0.156	0.413	0.188	0.436	0.198		Duplicate Scan: ZIQ-AB-241220-10
Body	99.00%	IEC Tissue	ELI5 1147	1.62	41.8	20.9	952EAY0091	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.025	30	0.022		0.42	14			10	0.113	0.052	0.114	0.052	0.129	0.059		
EU Drill Down for RED (10g), 802.11g																														
Start EU Drill Down for Body Configurations								Pls select the WC#1 to continue with EU Drill Down for Body																						
WLAN 2.4GHz (2412-2462MHz)								Start with the 802.11g, OFDM																						
802.11g - 2.4GHz OFDM, 20MHz BW, 6Mbps								Start with Mid Channel from WLAN PreCheck																						
RED (10g)								Pls generate 10g SAR for RED																						
Body Worn Search								802.11g																						
AC-LANYARD-05 (Lanyard) w/ PMLN8121A (Low-profile Swivel Clip)													DUT/Camera Back facing phantom																	
Body	97.00%	IEC Tissue	ELI5 1147	1.64	41.7	22.2	952EAY0091	AN000474A03	2442.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.029		0.04	14			10		0.071		0.073		0.079	ZIQ-AB-241221-03@	Repeat Scan: ZIQ-AB-241221-02@ Shorten Scan
AC-LANYARD-05 (Lanyard) w/ PMLN8475A (KF-Stud) w/ KF-MAGMOUNT2 (KF-MAGMOUNT2)													DUT/Camera Back facing phantom																	
Body	97.00%	IEC Tissue	ELI5 1147	1.64	41.7	20.1	952EAY0091	AN000474A03	2442.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8475A w/ KF-MAGMOUNT2	None	1.031	0.032	30	0.029		-0.08	30			26		0.016		0.017		0.018	ZIQ-AB-241221-04@	
RED (10g)								10g SAR																						
Freq Sweep (2412-2472MHz)								Pick the highest body configuration from above. (EU Drill Down for RED (10g))																						
802.11g - 2.4GHz OFDM, 20MHz BW, 6Mbps																														
Internal Antenna (2402-2480MHz)																														
Highest Configuration at the Body (10g)																														
Body	97.00%	IEC Tissue	ELI5 1147	1.64	41.7	22.2	952EAY0091	AN000474A03	2442.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.029		0.04	14			10		0.071		0.073		0.079	ABE-AB-241221-10@	Reference Scan: ZIQ-AB-241221-03@
Body	97.00%	IEC Tissue	ELI5 1147	1.6	41.8		952EAY0091	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.031		-0.26	14			10		0.071		0.078		0.080		Duplicate Scan ZIQ-AB-241221-03@
Body	97.00%	IEC Tissue	ELI5 1147	1.64	41.7	22.2	952EAY0091	AN000474A03	2442.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.029		0.04	14			10		0.071		0.073		0.079		
Body	97.00%	IEC Tissue	ELI5 1147	1.81	39.2	21.1	952EAY0091	AN000474A03	2472.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.028		0.17	14			10		0.064		0.066		0.075	MHN-AB-241223-02	
Audio Search								No Audio Accy is offered, duplicate scan.																						
802.11g - 2.4GHz OFDM, 20MHz BW, 6Mbps																														
Highest Configuration at the Body (10g)								Choose the worst case config from RED(10g) "Freq Sweep"																						
Body	97.00%	IEC Tissue	ELI5 1147	1.62	41.8		952EAY0091	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.031		-0.26	14			10		0.071		0.078		0.080		Reference Scan: ABE-AB-241221-10@
Body	97.00%	IEC Tissue	ELI5 1147	1.62	41.8		952EAY0091	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.031		-0.26	14			10		0.071		0.078		0.080		Duplicate Scan: ABE-AB-241221-10@

Test Pos.	DUT Tech. Test mode	Tiss. Type	Phantom Stand	Cond.	Dielec Const	Tiss. Temp.	Serial Number	Antenna	Test Freq. (MHz)	Battery	Carry Access.	Cable Access.	DUT Max. TX Factor	Max. Pwr.	Tx time (min.)	Init. Pwr.	End. Pwr.	SAR Drift (dB)	Dim A	Dim B	Dim C	Dim D	Meas 1g SAR (W/kg)	Meas 10g SAR (W/kg)	Adj 1g SAR (W/kg)	Adj 10g SAR (W/kg)	Max. Calc. 1g SAR (W/kg)	Max. Calc. 10g SAR (W/kg)	Run#	Test Comment
Second Unit																														
Highest configuration at the Abdomen								Pick the highest body configuration from above. (EU Drill Down for RED (10g))																						
802.11g - 2.4GHz OFDM, 20MHz BW, 6Mbps																														
RED (10g)								10g SAR																						
Body	97.00%	IEC Tissue	ELI5 1147	1.62	41.8		952EAY0091	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.031		-0.26	14			10	0.071		0.078		0.080		Reference Scan: ABE-AB-241221-10@	
Body	97.00%	IEC Tissue	ELI5 1147	1.76	39.3	20.5	952EAY0105	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.031	0.032	30	0.031		-0.37	14			10	0.067		0.076		0.078	MHN-AB-241223-04	Repeat Scan: MHN-AB-241223-03 Shorten Scan	
Highest configuration at the Face								As this is a Body Worn Camera, only body configs assessment are required																						
N/A																														
Highest configuration for each Antenna																														
N/A as only one Internal Antenna: AN000474A03																														
Highest configuration at the Head - Check touch																														
N/A																														
Highest configuration at the Head - 15D tilt																														
N/A																														
SAR Thresholds (WI-0466)																														
N	IEEE C95.1-1999 Uncontrolled (1g limit =1.6 W/kg)	IEEE C95.1-1999 Controlled (1g limit =8.0 W/kg)	IEEE C95.1-1999 Extremities & Pinna (10g limit =4.0 W/kg)	ICNIRP General Population (10g limit =2.0 W/kg)	ICNIRP Occupational (10g limit =10.0 W/kg)																									
1	1.19	5.95	2.98	1.49	7.45																									
2	1.26	6.30	3.16	1.58	7.90																									
3	1.30	6.50	3.26	1.63	8.15																									
4	1.33	6.65	3.32	1.66	8.30																									
5	1.36	6.80	3.38	1.69	8.45																									
6	1.41	7.05	3.46	1.73	8.65																									
7	1.53	7.65	3.80	1.90	9.50																									
>7	1.53	7.65	3.80	1.90	9.50																									
Pis pick the highest config from Whole Range/FCC/ISED (1g) above																														
Sainity check - test 2nd unit at configuration(s) for each band if the highest SAR result is less than or equal to the value indicated in the SAR Trhesholds table for N=1																														
Body	99.00%	IEC Tissue	ELI5 1147	1.62	41.8	20.9	952EAY0091	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.025	30	0.022		0.42	14			10	0.113	0.052	0.114	0.052	0.129	0.059		Reference scan: ZIQ-AB-241220-10
Body	99.00%	IEC Tissue	ELI5 1147	1.62	41.8	21.9	952EAY0105	AN000474A03	2412.0000	PMNN4578A	AC-LANYARD-05 w/ PMLN8121A	None	1.010	0.025	30	0.022		0.39	14			10	0.103	0.046	0.104	0.047	0.118	0.053		Duplicate scan ZIQ-AB-241221-01@

Clear cells before logging scan!

No. of meas.	SAR ₁	SAR ₂
1		
2		
3		
4		
5		
6		
7		

Formula : SMALL SAMPLE MEAN TEST (z) 6/23/04

Average SAR ₁	Average SAR ₂	N ₁	N ₂	z
#DIV/0!	#DIV/0!	0.000	0	#DIV/0!

Average SAR₁ the average SAR value of the SAR measurements (a previous batch)
Average SAR₂ the average SAR value of the SAR measurements (a previous batch)
N₁ is number of tested units for previous batch
N₂ is number of tested units for previous batch
z is Small Sample Mean Test (see APP-0466 appendix B)
Total Uncertainty σ_z The total uncertainty in the measured data: $\sigma_z = \text{SQRT}(\sigma_{s_1}^2 + \sigma_{s_2}^2 + \sigma_z^2) \sim 15\%$

Test Pos.	DUT Tech. Test mode	Tiss. Type	Phantom Stand	Cond.	Dielec Const	Tiss. Temp.	Serial Number	Antenna	Test Freq. (MHz)	Battery	Carry Access.	Cable Access.	DUT Max. TX Factor	Max. Pwr.	Tx time (min.)	Init. Pwr.	End. Pwr.	SAR Drift (dB)	Dim A	Dim B	Dim C	Dim D	Meas 1g SAR (W/kg)	Meas 10g SAR (W/kg)	Adj 1g SAR (W/kg)	Adj 10g SAR (W/kg)	Max. Calc. 1g SAR (W/kg)	Max. Calc. 10g SAR (W/kg)	Run#	Test Comment	
Unit #2 - test at configuration(s) where the average SAR is greater than the value indicated in the Thresholds table for N=1																															
																											#####	#####			
Unit #3 - test at configuration(s) where the average SAR is greater than the value indicated in the Thresholds table for N=2																															
																											#####	#####			
Unit #4 - test at configuration(s) where the average SAR is greater than the value indicated in the Thresholds table for N=3																															
																											#####	#####			
Unit #5 - test at configuration(s) where the average SAR is greater than the value indicated in the Thresholds table for N=4																															
																											#####	#####			
Unit #6 - test at configuration(s) where the average SAR is greater than the value indicated in the Thresholds table for N=5																															
																											#####	#####			
Unit #7 - test at configuration(s) where the average SAR is greater than the value indicated in the Thresholds table for N=6																															
																											#####	#####			
Additional unit(s) if required - test at configuration(s) where the average SAR is greater than the value indicated in the Thresholds table for N=7																															
																											#####	#####			

FCC Report Required

Check TAB 7-Variability. Verify;
All variability requirements have been met.

End