


Schedule

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LABORATORY LOCATION/ CENTRAL OFFICE:	Product Validation Engineering ?EMC Laboratory, Flextronics Technology (Penang) Sdn. Bhd. PMT 719, Lingkaran Cassia Selatan Taman Perindustrian Batu Kawan 14100 Simpang Ampat, Pulau Pinang , 14100, PULAU PINANG MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	ELECTRICAL (RADIO FREQUENCY) ELECTROMAGNETIC COMPATIBILITY (EMC)

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Product Validation Engineering ?EMC Laboratory, Flextronics Technology (Penang) Sdn. Bhd. PMT 719, Lingkaran Cassia Selatan Taman Perindustrian Batu Kawan 14100 Simpang Ampat, Pulau Pinang , 14100, Pulau Pinang
FIELD(S) OF TESTING :	ELECTRICAL, ELECTROMAGNETIC COMPATIBILITY (EMC)

SCOPE OF TESTING : ELECTRICAL (RADIO FREQUENCY)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
(frequency Hopping Spread (rlan) Equipment (u-nii Without Dfs) Compatibility And Radio Devices	Radiated emissions - common	None
	the essential requirements of	None
	Maximum power spectral requirements	FCC KDB Guide: 789033
	Operating channel	None
	(Max. Vertical Load 50,000 kN)	Clause 8.2.1.2.7
	None	None
	None	None
	None	None
	Radiated Power (EIRP)	ANSI/TIA-102.CAAA-E: 2016
	0 °C to 630 °C	0.48 °C

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Electrical/electronic	Radio Disturbance Characteristics -	FCC Part 15 Subpart B:2015
	Electrical Fast Transient Immunity	BS EN 61000-4-4:2012
Electromagnetic Environments	Part 1: Common technical	ETSI EN 301 489-1 V2.2.3:2019
	None	None
	Air Pressure Difference	SO 14644-3: 2019 Annex B.1
	HEPA Filter Leak Test	SO 14644-3: 2019 Annex B.7
	Temperature	SO 14644-3: 2019 Annex B.5
	Humidity	SO 14644-3: 2019 Annex B.6
Equipment	multimedia equipment - Emission	None
	None	RSS-Gen, RSS-119, RSS-130
	None	None
	None	None
	None	0.45 + 7.6 nA
	None	None
	None	None
Generic Standards For Industrial, Scientific And Information Infrastructure	Emission standard	BS EN 61000-6-3:2007+A1:2011
	Radio-frequency disturbance	EN 55011:2016
	Non-occupancy period (ERP) / Effective Isotropic	ANSI C63.10-2013 ANSI/TIA-102.CAAA-D: 2013
Medical Electrical Equipment	Part 1-2: General requirements	IEC/EN 60601-1-2:2015
Medical Equipment	characteristics -" Limits and	CISPR 11:2019
Products	Limit and method of measurements	ANSI C63.4:2014
	None	None
	Carbohydrate	In-House Method CLWI-TEC-F022
	None	Agrobot, Cluj 38 (1) 2010, 44-48
	None	None
	None	None
	None	None
	None	None
	Copper	None
	Electronic Apparatus -" Safety Requirements	Except:
	Total Carbohydrate	Method of Analysis for Nutrition 2005.Page 393-397
	None	None
	e	None
	None	None
	None	None
	None	None
	None	None
	Impurities	MPOB p2.2:2004
	Peroxide Value	MPOB p2.3:2004
	Acidity/FFA	MPOB p2.5:2004
Iodine Value	MPOB p3.2:2004	
Colour Lovibond	MPOB p4.1 Part 1:2004	

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Slip Melting Point	MPOB p4.2:2004
	Anisidine value	MPOB p2.4:2004
	None	Specimen Clause 6.2 -" Rigid Tubes
	API Gravity of Crude Oils by	ASTM D5002
	Density, Relative Density of API	ASTM D4052
	Yield Strength	ASTM A370-21 (Section 7 to 14)
	None	on AOAC 925.45B
	None	None
	Butyric acid (C4:0)	None
	(cis)	None
	None	None
	None	None
	None	None
	None	None
	None	on Mettler Toledo Ti-Note EasyPlus
	None	C (2008)
	None	None
	None	None
	Yeast & Mould	FDA-BAM Chapter 18 (Plate Count)
	None	None
	None	None
	None	None
	None	None
	Fat (Acid Hydrolysis)	n House Method TM/F-014 Based on
	Moisture	n House Method TM/F-004 Based on
	None	Examination of Foods, 4th Edition
	Vibrio parahaemolyticus	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Coliform	FDA-BAM Chapter 4 (2020)
	Fecal Coliform	FDA-BAM Chapter 4 (2020)
	None	None
	None	AOAC 991.14 (3M Petrifilm) (2002)
	None	None
	Clostridium perfringens Count	FDA-BAM Chapter 16 (2001)
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Dynamic Viscosity and Density	None
	and Fire Points by Cleveland	None
	Moisture Karl Fischer Reagent	ISO 8534 (M) / KF Volumeter (E) /
	Flash Point (Cleveland Open	ASTM D 92-90
	None	Gel-Clot Method
	None	None
	Test for absence of I	None
	None	None
	None	L03-004, Based on VICAM Zearala
	None	Spectrometry (WDXRF)
	in Fruit Juices and Related	onBrause et al., Journal of AOAC
	None	Lovibond Colour in Palm Oil and Palm
	None	(CTAB Protocol) based on
	None	Conventional Polymerase Chain
	None	(HPLC)
	None	None
	Violet	In-House No.FH 38
	None	None
	None	None
	Refer Appendix III	2007.01 (GCMSMS)
	None	None
	None	None
	-35S Promoter	Detection Using Real Time PCR
	None	None
	None	None
	None	968.28
	None	None
	None	None
	None	None
	Mercury	In-house Method SOP-0217-1018,
	None	UHPLC
	None	UHPLC
	Ash	In-house Method 0510 based on
	None	AOAC 964.21
	None	None
	None	Edition, 1978
	None	None
	None	None
	None	2:2009
	Bioburden Estimation	ISO 11737-1:2006
	Sterility Test	ISO 11737-2:2009
	Endotoxin in Medical Devices	USP 29 th Edition (LAL Gel Clot
	None	None
	None	None
	None	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Bend Performance	Clause 7.2.4 e
	Lithium, Li Vanadium,V	001 with reference to USP 39 and USP 40
	None	nicotinic acid and nicotinamide in
	None	None
	phthalate, DIBP	None
	Dibutyl phthalate, DBP	006, with reference to ISO 8124-
	None	None
	None	None
	None	L03-007-Determination of Aflatoxin
	None	G03-123(1)-Detection of Maize in
	None	G03-143(1)-Detection of Event-Specific
	None	G03-143(2)-Detection of Event-Specific
	None	G03-143(3)-Detection of Event-Specific
	None	G03-143(5)-Detection of Event-Specific
	None	G03-143(4)-Detection of Event-Specific
	NoneNone	None
	None	
	None	None
	Ultimate Tensile Strength e	(ref no: QA/METAL/05)
	None	None
	Monosodium Glutamate	F024 by HPLC Fluorescence
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aerobic Plate Count	None
	Total Coliform Count	FDA-BAM, Ed, Chap 4
	Fecal Coliform	None
	Salmonella spp.	FDA-BAM, Ed, Chap 5
	- Sulphate	BS 1377, 1990-Part 3 Section 5
	- pH Value	BS 1377, 1990-Part 3 Section 9

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	- Loss on Ignition	BS 1377, 1990-Part 3 Section 4
	Average Grain Size Measurement	Method)
	- Rockwell Method	ASTM E18: 20
	Break Test (Filled Weld)	None
	Properties Measured /	Method/
	Total Plate Count	Plating
	Coliform	Determination of Coliform & E.coli
	Escherichia Coli	(Pour Plate Method) - AOAC
	Escherichia Coli	performance tested. Certificate no.
	Escherichia Coli	020902
	Coliform	AOAC 998.08. Edition,
	Escherichia Coli (Petrifilm)	2019/Petrifilm
	Staphylococcus Aureus (Petrifilm)	AOAC 2003.11. 21% Edition,
	Staphylococcus Aureus (Petrifilm)	2019/Petrifilm
	Salmonella (Petrifilm)	AOAC 2014.01. 21% Edition,
	Salmonella	2019/Petrifilm
	(Alpha Tocopherol, Alpha Tocotrienol,	FDA BAM Chapter 5. 2020;
	Beta Tocotrienol, Gamma Tocotrienol,	70, No. 12, December 1993/HPLC
	Delta Tocotrienol)	None
	Phytosterols Content	None
	(Sitosterol, Stigmasterol)	EvTM_0008/HPLC
	Plant Squalene	None
	Solvent Residue	EvTM_0007/HPLC
	(Hexane, Ethyl Acetate, Methanol,	EvTM_0005/GC Headspace
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Benzo A Pyrene	None
	Benzo A Pyrene	EvTM_0004, Based on AOCS Cd
	Moisture	21 - 91, 5 th Edition (2003)
	Moisture	AOCS Ca 2e - 84, Edition
	Mixed Carotene	(2003)
	Mixed Carotene	None
	Solvent Residue	EvTM_0150/HPLC
	(Hexane, Ethyl Acetate, Methanol,	EvTM_0151/GC-HS
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	None
	Moisture	AOCS Ca 2e - 84, Edition
	None	(2003)
	2,6-Di-Tert-Butyl Hydroxytoluene	None
	Tocotrienol, Beta Tocotrienol,	EvTM_0049/GC
	Gamma Tocotrienol, Delta	1993/HPLC
	Tocotrienol)	None
	Benzo A Pyrene	None
		EvTM_0114, Based on AOCS Cd
		21-91, 5 th Edition (2003)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Mixed Carotene	EvTM_0115/HPLC
	Mixed Carotene	EvTM_0116/UV-VIS
	Lycopene Content	EvTM_0118/UV-VIS
	Plant Squalene	EvTM_0124/HPLC
	Phytosterols Content (Sitosterol, Stigmasterol)	EvTM_0125/HPLC
	Solvent Residue (Hexane, Ethyl Acetate, Methanol,	EvTM_0126/GC HS
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds	BP 2020/Volume
	Count	XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative	BP 2020/Volume
	Bacteria	XVI B
	Detection of Specific	BP 2020/Volume
	Microorganism	
	Pseudomonas aeruginosa	IV/Appendix XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds	BP 2020/Volume
	Count	XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative	BP 2020/Volume
	Bacteria	XVI B
	Detection of Specific	BP 2020/Volume
	Microorganism	
	Pseudomonas aeruginosa	XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
	None	spp. by Real-Time PCR (qPCR) -" SYBR
	None	None
	None	in Soybean by real-Time PCR (qPCR)
	None	DNA (Universal Plant) by Real-Time
	Free Fatty Acids	None
	Moisture and Volatile Matter Hot	AOCS Ca 2b-38 (1997)
	Plate Method	None
	Insoluble Impurities	AOCS Ca 3a-46 (1997)
	Iodine Value of Fats and Oils	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Cyclohexane-Acetic Acid	AOCS Cd 1d-92 (1997)
	Method	None
	Slip Melting Point	None
	AOCS Standard Open Tube	AOCS Cc 3-25 (1997)
	Melting Point	None
	Color	AOCS Cc (1997)
Radio Local Area Network	Harmonised standard covering	ETSI EN 301 893 V2.1.1:2017
Residential, Commercial And Light-industrial	Immunity standard	BS EN 61000-6-1:2007
Short Range Devices (srd)	Radio equipment in the frequency	ETSI EN 300 330 V2.1.1:2017
Spectrum Matters (erm); Electromagnetic Compatibility (emc) Standard For Radio Equipment And Services	Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	ETSI EN 301 489-3 V2.2.1:2019
	Part 17: Specific conditions for requirements	ETSI EN 301 489-17 V2.1.1:2009
Spectrum)	requirements	RSS-GEN, Issue 5
Unlicensed National	Emission bandwidth	FCC Part 15 Subpart E
	Effective Radiated Power	ANSI/TIA-603-E: 2016
Unlicensed Wireless Devices	1. Power-line conducted	FCC Part 15 Subpart C

SCOPE OF TESTING : ELECTROMAGNETIC COMPATIBILITY (EMC)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Associated Equipment	measurement	None
	Immunity characteristics - Limits	BS EN 55020:2007+A11:2011
Broadcast Receivers And Equipment.	Limits and methods of	None
	Limits and methods of	FCC Part 15 Subpart B
Information Technology	Radio disturbance characteristics -	BS EN 55022:2010
Ite And Multimedia Products (cont.)	Electromagnetic compatibility of	BS EN 55032:2015
	Surge Immunity	BS EN 61000-4-5:2014
	Immunity to Conducted	BS EN 61000-4-6:2014
	None	35S Promoter of Genetically Modified
Sound And Television	Radio disturbance characteristics -	BS EN 55013:2013

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