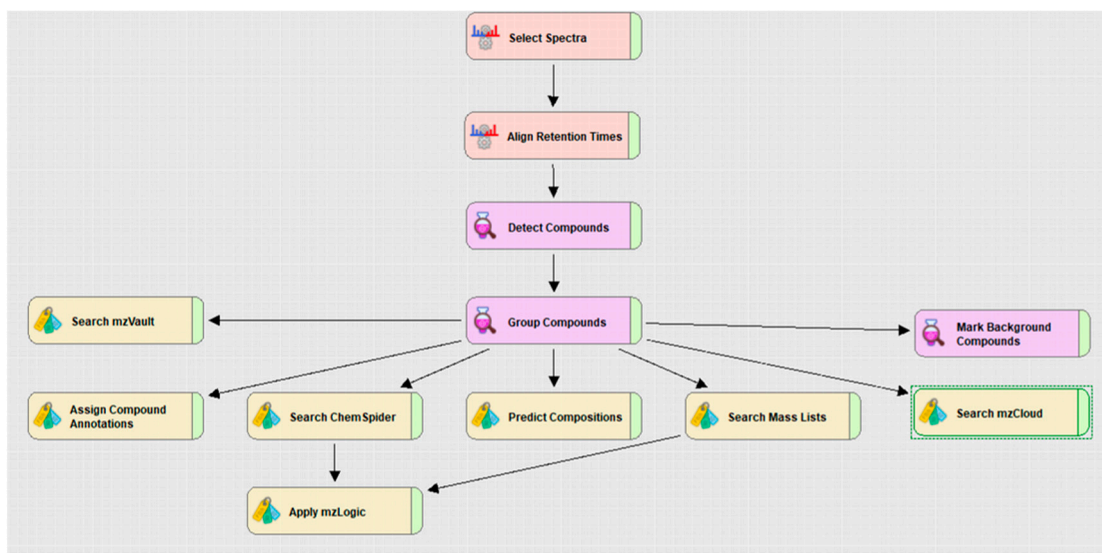


Supplementary data

Supplementary data A. Workflow used in Compound Discoverer 3.3.

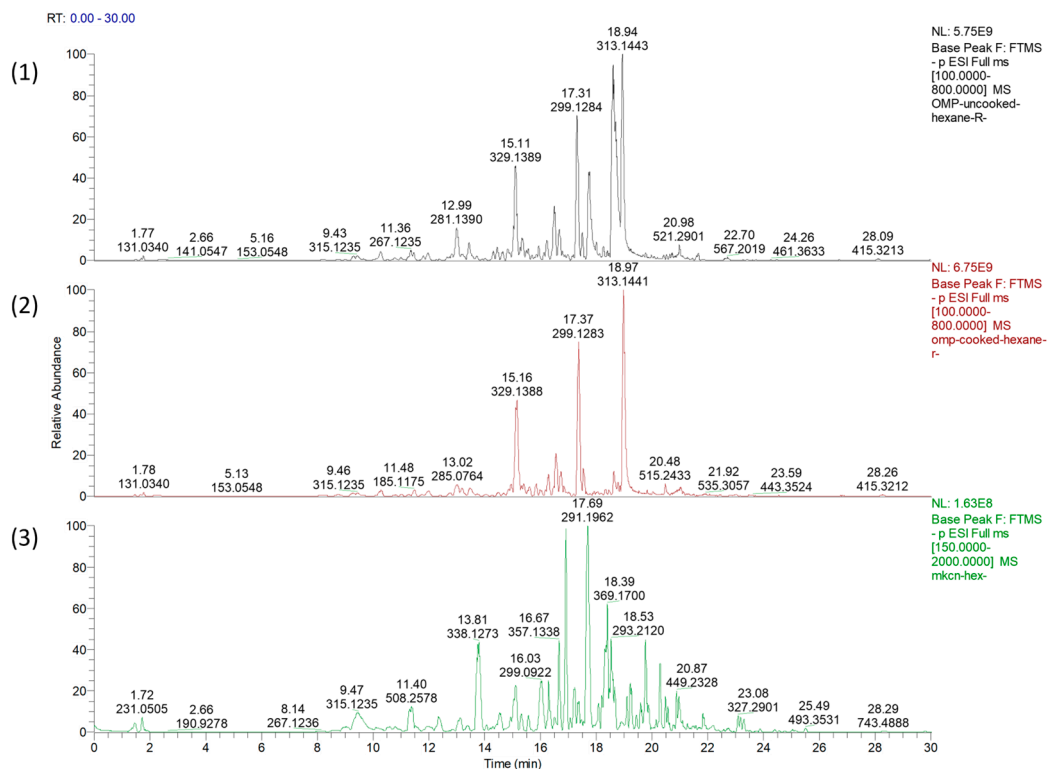


Supplementary data B. Databases included in MassList:

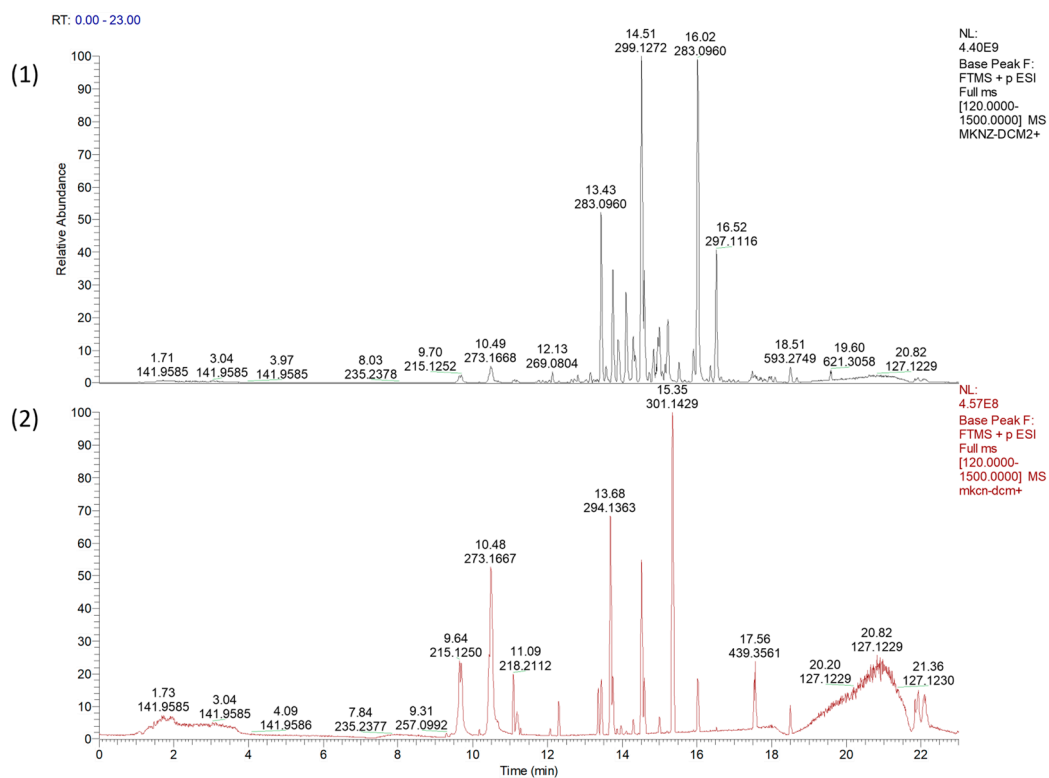
1. Arita Lab 6549 Flavonoid Structure Database
2. EFS HRAM Compound Database
3. Endogenous Metabolites Database
4. Example Mass List
5. Extractables and Leachables HRAM Compound Database
6. Lipid Maps Structure Database
7. Natural Products Atlas 1
8. Natural Products Atlas 2

Supplementary data C. LC-MS raw data of Manuka hexane and dichloromethane extracts.

C-1: LC-MS analysis of Manuka hexane extracts. (1) NZ untreated; (2) NZ steam-distilled; (3) CN untreated

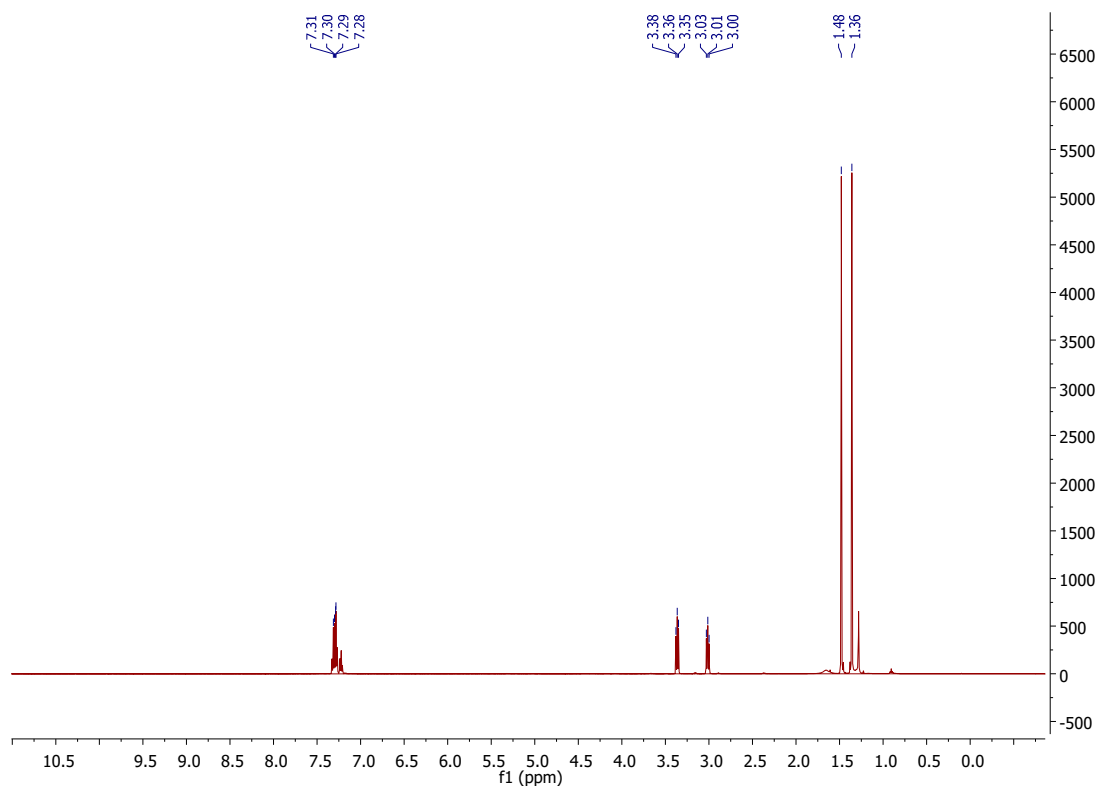


C-2: LC-MS analysis of Manuka dichloromethane extracts. (1) NZ untreated (2) CN untreated

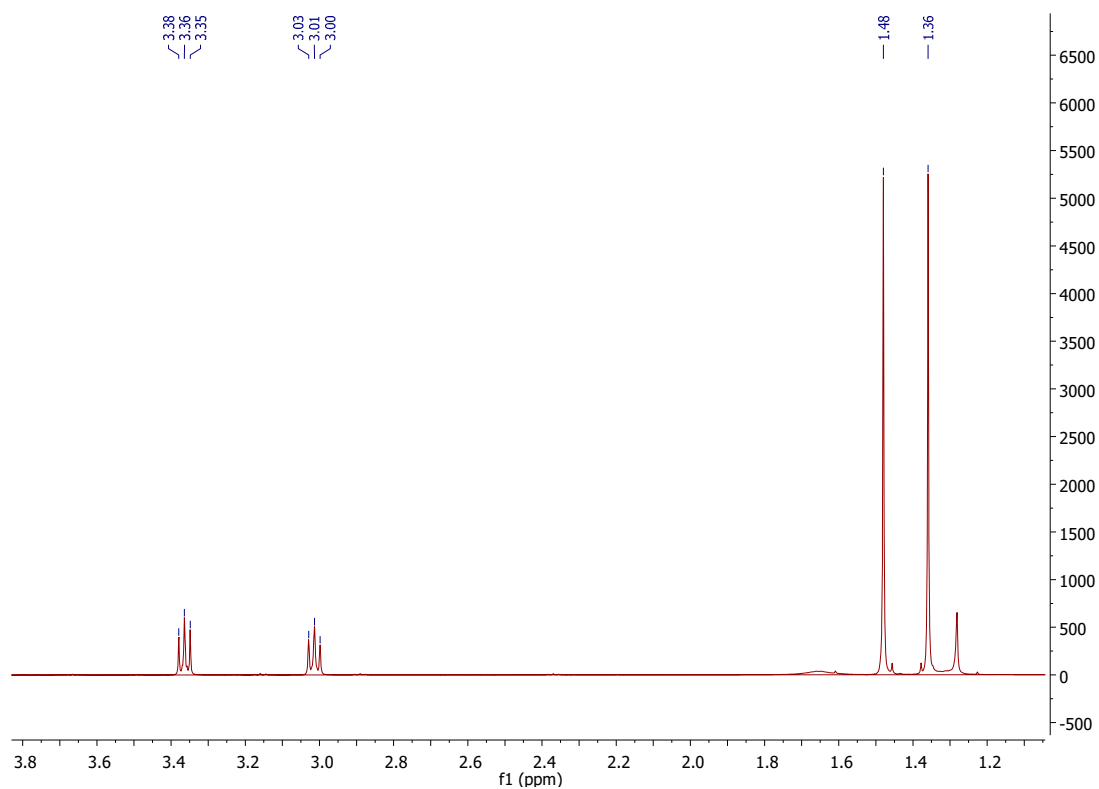


Supplementary data D. ^1H , ^{13}C and DEPT NMR spectrum of obtained Flavone.

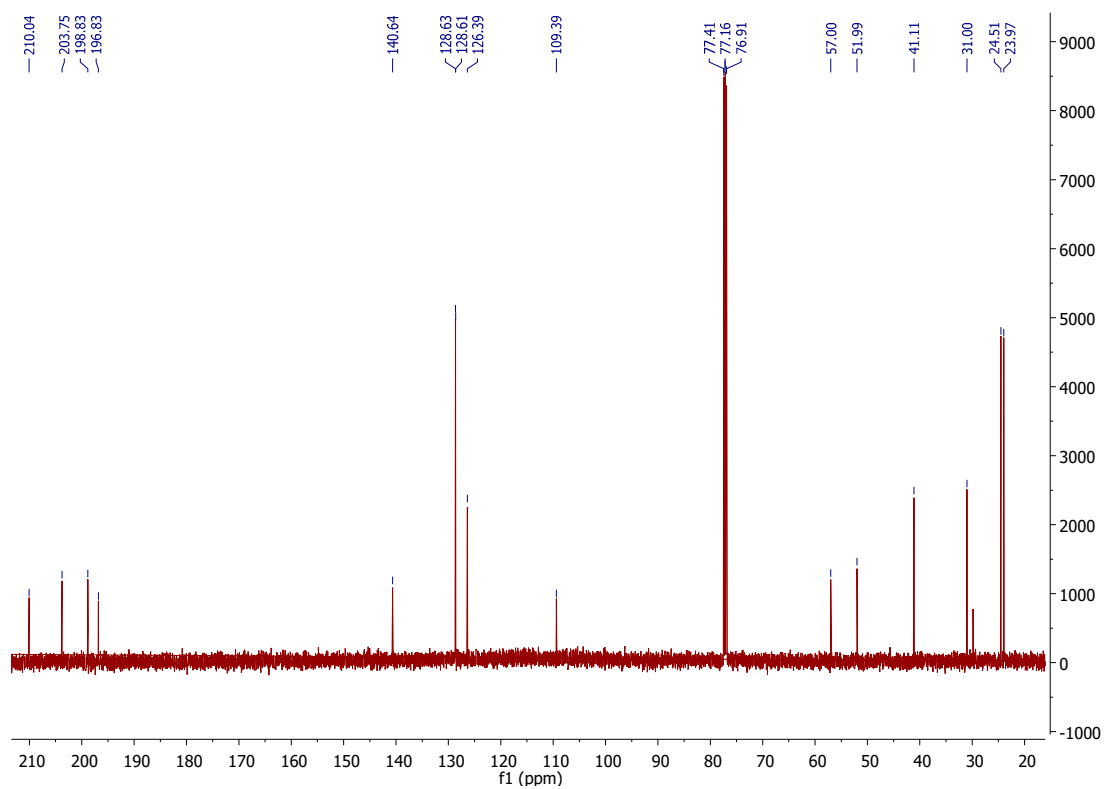
^1H NMR original graph:



^1H NMR partial magnified graph:

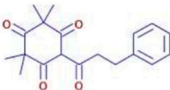



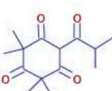



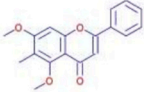

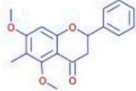

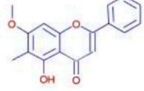

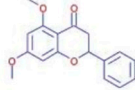





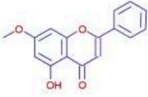

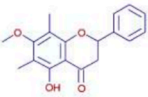

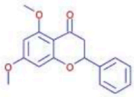

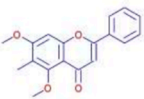

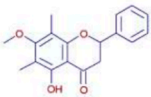

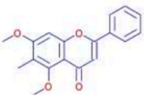

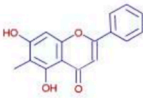

^{13}C NMR original graph:

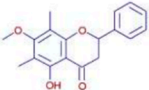

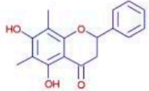

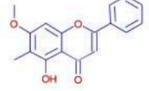

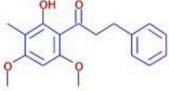

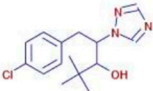


E-1: mzCloud matching results.

E-2: Mass Lists matching results.

Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	2,2,4,4-Tetramethyl-6-(3-phenylpropanoyl)-1,3,5-cyclohexanetrione	18.94	C ₁₉ H ₂₂ O ₄	314.15159	313.14432	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	Isoleptospermone	18.60	C ₁₅ H ₂₂ O ₄	266.15144	265.14417	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	Flavesone	17.76	C ₁₄ H ₂₀ O ₄	252.13569	251.12842	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	2,2,4-Trimethyl-6-(3-phenylpropanoyl)-1,3,5-cyclohexanetrione	17.31	C ₁₈ H ₂₀ O ₄	300.13573	299.12845	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5,7-Dimethoxy-6-methyl-2-phenyl-4H-chromen-4-one	16.52	C ₁₈ H ₁₆ O ₄	296.10430	297.11157	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5,7-Dimethoxy-6-methyl-2-phenyl-2,3-dihydro-4H-chromen-4-one	16.36	C ₁₈ H ₁₈ O ₄	298.11995	299.12723	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5-Hydroxy-7-methoxy-6-methylflavon	16.02	C ₁₇ H ₁₄ O ₄	250.06249	283.09598	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5,7-Methoxyflavanone	15.91	C ₁₇ H ₁₆ O ₄	284.10448	285.11176	

Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	3-Hydroxy-5-methoxy-4,6,6-trimethyl-2-[(2E)-3-phenyl-2-propenoyl]-2,4-cyclohexadien-1-one	15.52	C ₁₉ H ₂₀ O ₄	312.13566	313.14294	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	Tectochrysin	15.22	C ₁₆ H ₁₂ O ₄	236.04698	269.08047	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5-Hydroxy-7-methoxy-6,8-dimethylflavanone	15.00	C ₁₈ H ₁₈ O ₄	298.11987	299.12717	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5,7-Methoxyflavanone	14.84	C ₁₇ H ₁₆ O ₄	284.10442	285.11169	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5,7-Dimethoxy-6-methyl-2-phenyl-4H-chromen-4-one	14.59	C ₁₈ H ₁₆ O ₄	296.10427	297.11157	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5-Hydroxy-7-methoxy-6,8-dimethylflavanone	14.52	C ₁₈ H ₁₈ O ₄	298.11988	299.12717	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5,7-Dimethoxy-6-methyl-2-phenyl-4H-chromen-4-one	14.29	C ₁₈ H ₁₆ O ₄	296.10430	297.11160	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5,7-Dihydroxy-6-methyl-2-phenyl-4H-chromen-4-one	14.10	C ₁₆ H ₁₂ O ₄	268.07308	269.08035	

Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5-Hydroxy-7-methoxy-6,8-dimethylflavanone	13.89	C ₁₈ H ₁₈ O ₄	298.11999	299.12729	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	Demethoxymatteucanol	13.75	C ₁₇ H ₁₆ O ₄	284.10434	285.11160	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	5-Hydroxy-7-methoxy-6-methylflavon	13.44	C ₁₇ H ₁₄ O ₄	282.08872	283.09601	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	1-(2-Hydroxy-4,6-dimethoxy-3-methylphenyl)-3-phenyl-1-propanone	15.35	C ₁₈ H ₂₀ O ₄	150.06780	301.14288	
Structure	Name	RT [min]	Formula	Calc. MW	m/z	Mass List Matches
	Paclobutrazol	13.69	C ₁₅ H ₂₀ Cl N ₃ O	293.12889	294.13617	