

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040323\
 Data File : VU053545.D
 Acq On : 04 Apr 2023 01:55
 Operator : JC/MD
 Sample : 02158-17
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-2(20230330)

Quant Time: Apr 04 06:58:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM033123WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 01 04:51:17 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	255710	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	240206	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	123100	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	87495	43.943	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	87.880%		
7) Chloroethane-d5	1.909	69	75661	49.284	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.560%		
11) 1,1-Dichloroethene-d2	2.575	63	289866	94.046	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	188.100%#		
21) 2-Butanone-d5	4.613	46	105397	116.914	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	116.910%		
24) Chloroform-d	5.057	84	156326	47.473	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	94.940%		
26) 1,2-Dichloroethane-d4	5.694	65	101887	52.362	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	104.720%		
32) Benzene-d6	5.722	84	317510	48.970	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.940%		
36) 1,2-Dichloropropane-d6	6.687	67	100366	50.644	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	101.280%		
41) Toluene-d8	7.893	98	301547	46.793	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	93.580%		
43) trans-1,3-Dichloroprop...	8.173	79	48769	47.673	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	95.340%		
47) 2-Hexanone-d5	8.626	63	82298	121.677	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	121.680%		
56) 1,1,2,2-Tetrachloroeth...	10.751	84	147901	52.949	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	105.900%		
66) 1,2-Dichlorobenzene-d4	12.188	152	122742	47.768	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	95.540%		
Target Compounds						Qvalue
5) Vinyl chloride	1.604	62	56657	28.666	ug/L	97
8) Chloroethane	1.928	64	1684	1.417	ug/L #	82
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	21745	12.351	ug/L	91
17) trans-1,2-Dichloroethene	3.350	96	14884	9.439	ug/L	99
19) 1,1-Dichloroethane	3.864	63	5140458	1967.917	ug/L	98
20) cis-1,2-Dichloroethene	4.661	96	558842	306.821	ug/L	92
27) 1,2-Dichloroethane	5.790	62	52288	23.831	ug/L	98
30) 1,1,1-Trichloroethane	5.311	97	36102	13.640	ug/L	99
31) Carbon tetrachloride	5.308	117	4476	1.888	ug/L	90
33) Benzene	5.771	78	58949	9.419	ug/L	100
34) Trichloroethene	6.536	95	920611	486.358	ug/L	95
37) 1,2-Dichloropropane	6.687	63	10943	6.886	ug/L #	86
39) cis-1,3-Dichloropropene	7.562	75	2910	1.121	ug/L #	45
44) trans-1,3-Dichloropropene	8.176	75	2172	0.885	ug/L #	77
46) Tetrachloroethene	8.549	164	1851	1.178	ug/L	92
48) 2-Hexanone	8.626	43	9126	6.533	ug/L #	71
49) Dibromochloromethane	8.552	129	1686	0.929	ug/L #	11
51) Chlorobenzene	9.443	112	39536	8.091	ug/L	95
64) 1,3-Dichlorobenzene	11.742	146	21840	5.743	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Sat Apr 01 04:51:17 2023
Response via : Initial Calibration

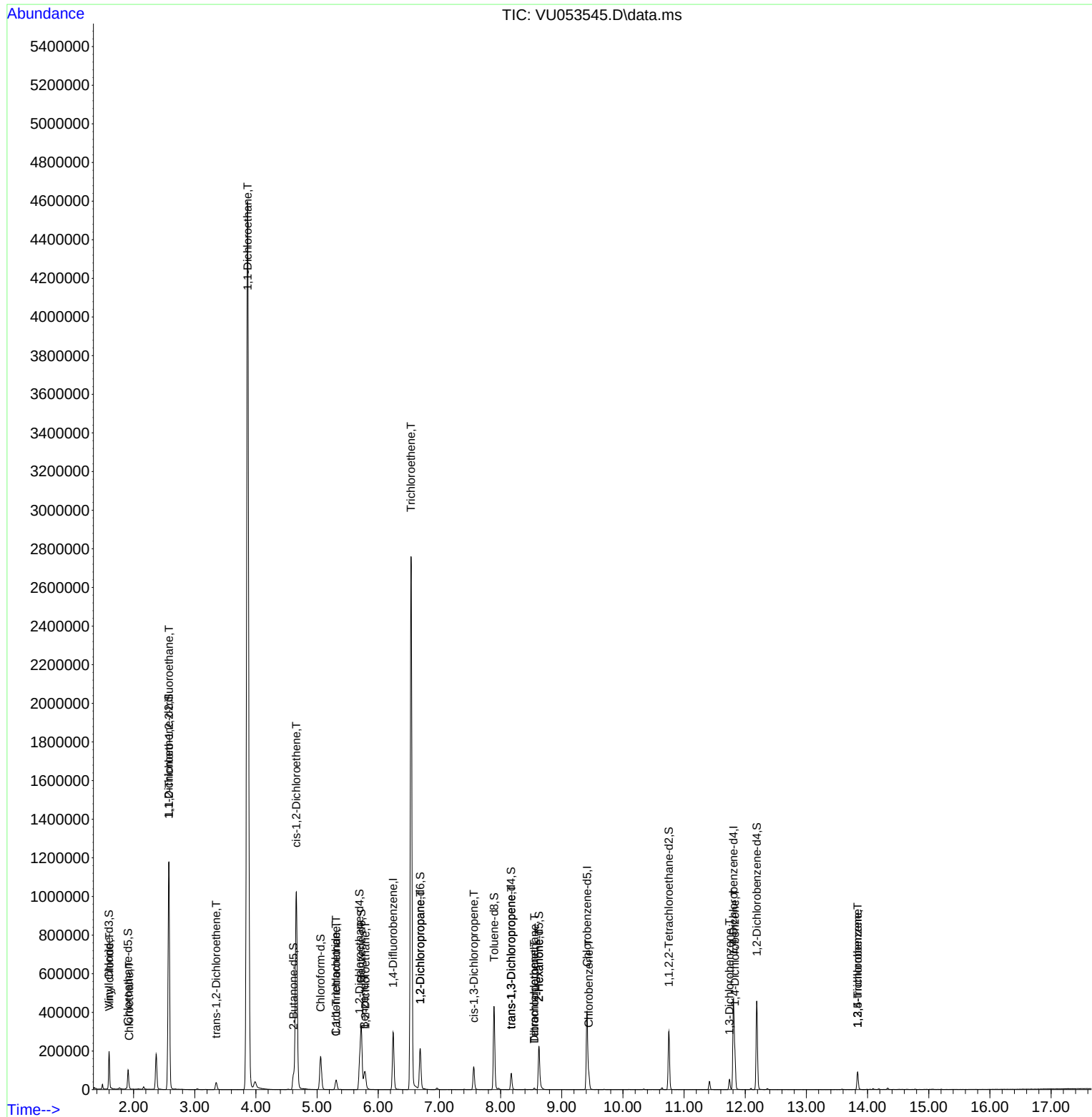
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.832	146	68887	17.773	ug/L	97
69) 1,3,5-Trichlorobenzene	13.838	180	30023	10.661	ug/L	97
70) 1,2,4-trichlorobenzene	13.838	180	30023	11.499	ug/L	98

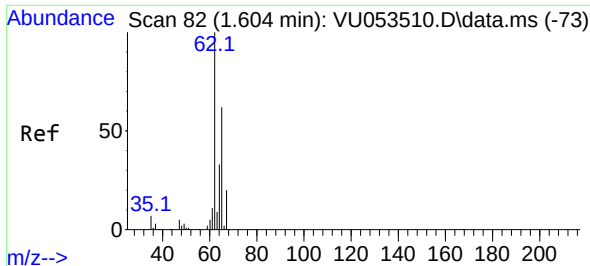
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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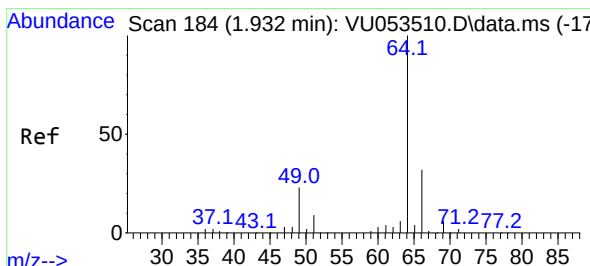
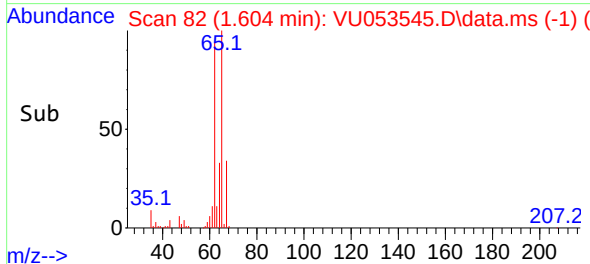
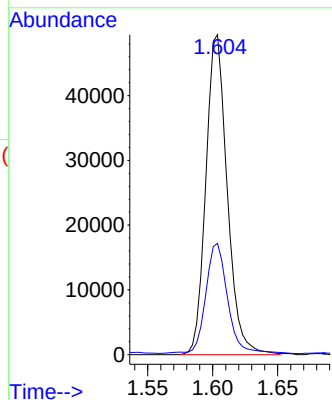
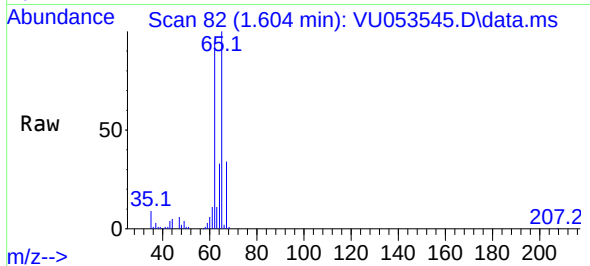




#5
 Vinyl chloride
 Concen: 28.666 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU053545.D
 Acq: 04 Apr 2023 01:55

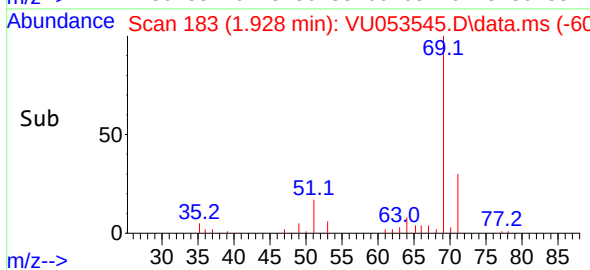
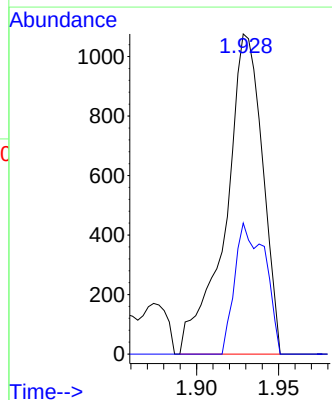
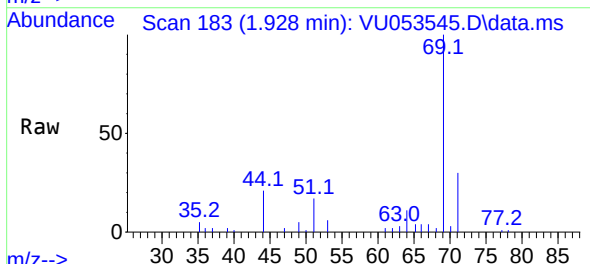
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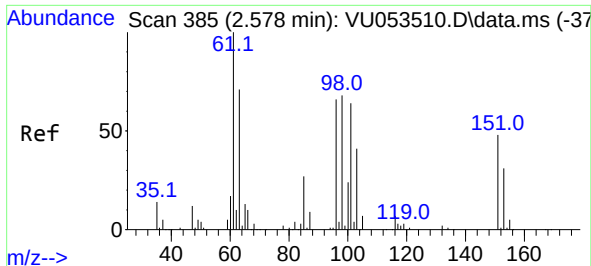
Tgt Ion: 62 Resp: 56657
 Ion Ratio Lower Upper
 62 100
 64 34.8 23.2 43.0



#8
 Chloroethane
 Concen: 1.417 ug/L
 RT: 1.928 min Scan# 183
 Delta R.T. -0.003 min
 Lab File: VU053545.D
 Acq: 04 Apr 2023 01:55

Tgt Ion: 64 Resp: 1684
 Ion Ratio Lower Upper
 64 100
 66 40.9 21.8 40.6#

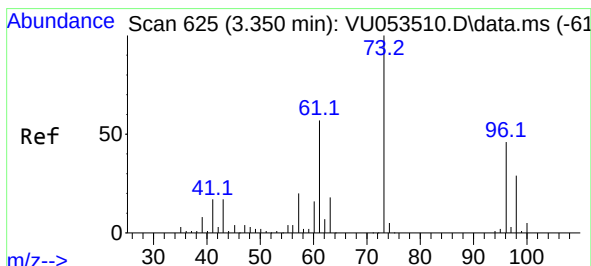
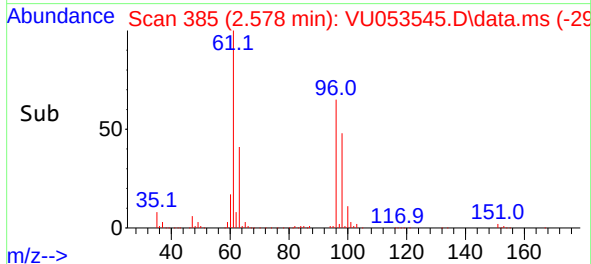
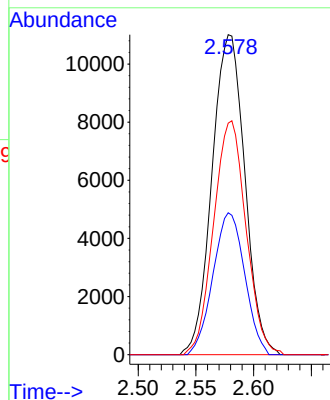
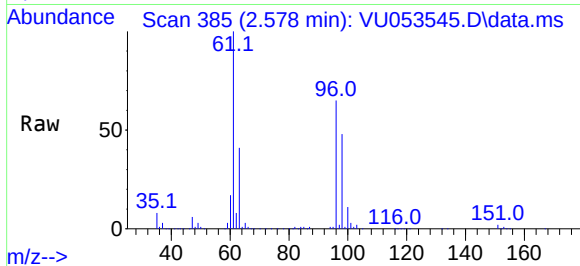




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 12.351 ug/L
RT: 2.578 min Scan# 385
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

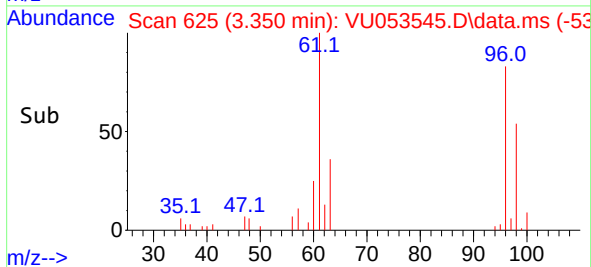
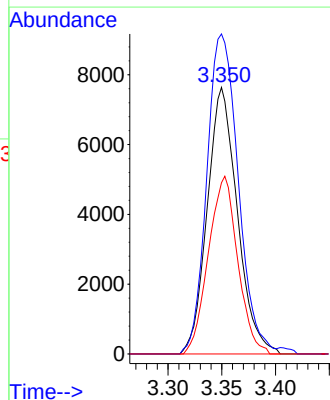
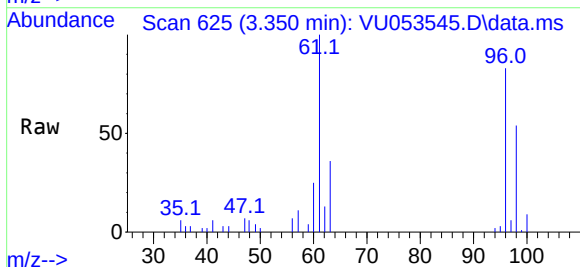
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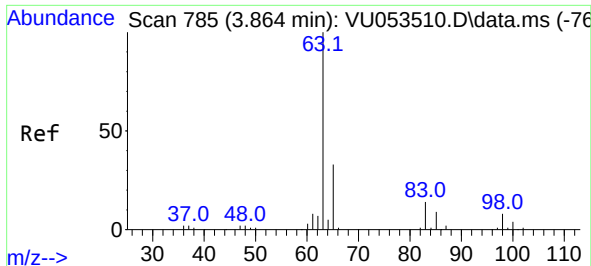
Tgt Ion:	101	Resp:	21745
Ion	Ratio	Lower	Upper
101	100		
85	42.9	32.6	48.8
151	72.3	65.8	98.6



#17
trans-1,2-Dichloroethene
Concen: 9.439 ug/L
RT: 3.350 min Scan# 625
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion:	96	Resp:	14884
Ion	Ratio	Lower	Upper
96	100		
61	120.0	84.4	156.8
98	64.2	46.0	85.4

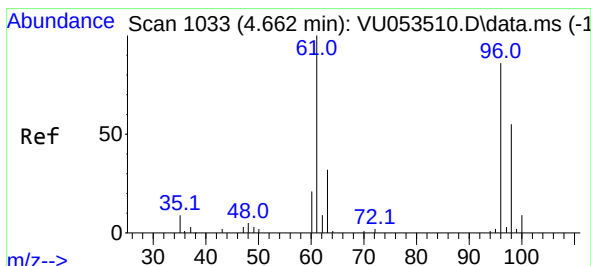
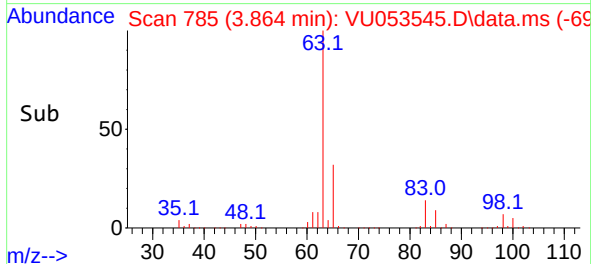
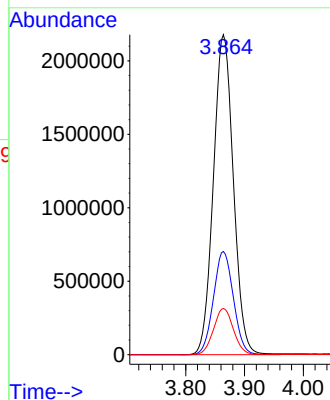
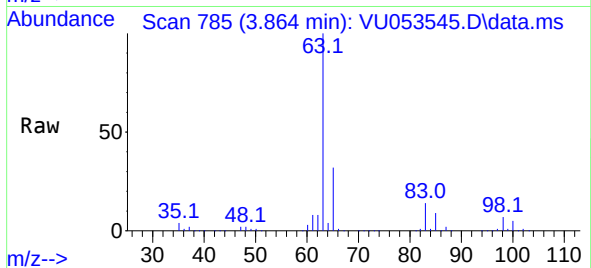




#19
1,1-Dichloroethane
Concen: 1967.917 ug/L
RT: 3.864 min Scan# 785
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

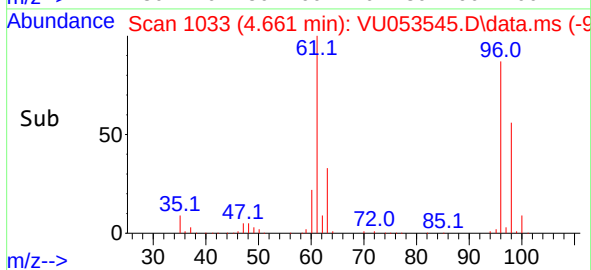
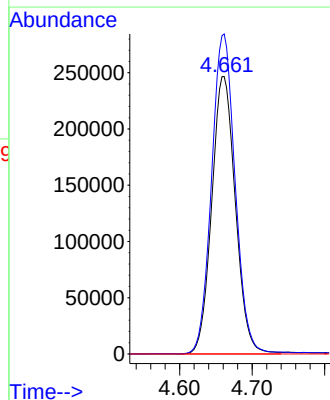
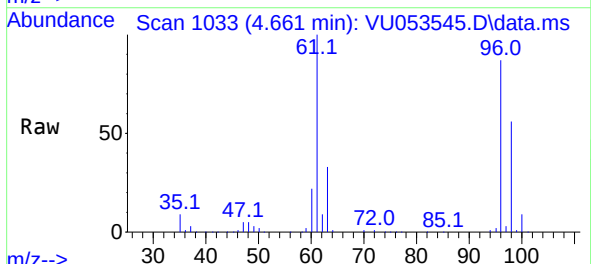
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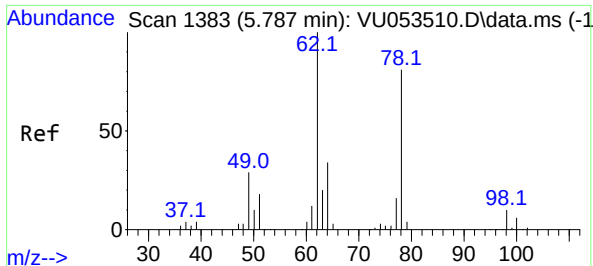
Tgt Ion: 63 Resp: 5140458
Ion Ratio Lower Upper
63 100
65 32.3 22.0 41.0
83 14.4 10.8 20.0



#20
cis-1,2-Dichloroethene
Concen: 306.821 ug/L
RT: 4.661 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion: 96 Resp: 558842
Ion Ratio Lower Upper
96 100
61 115.4 74.7 138.7
68 0.0 0.0 0.0

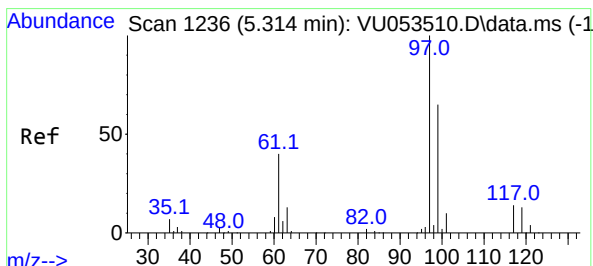
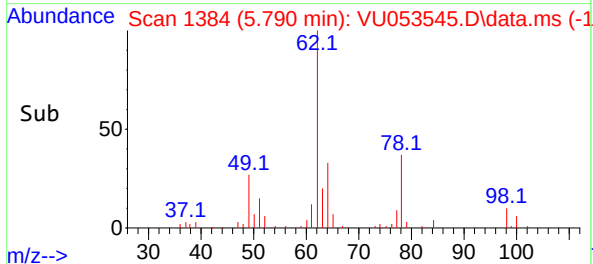
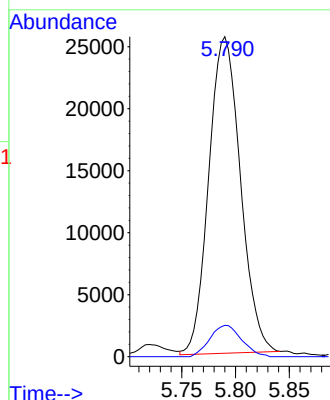
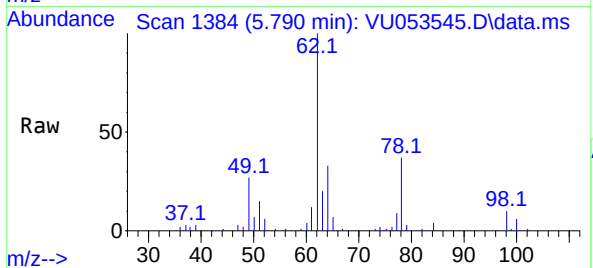




#27
1,2-Dichloroethane
Concen: 23.831 ug/L
RT: 5.790 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

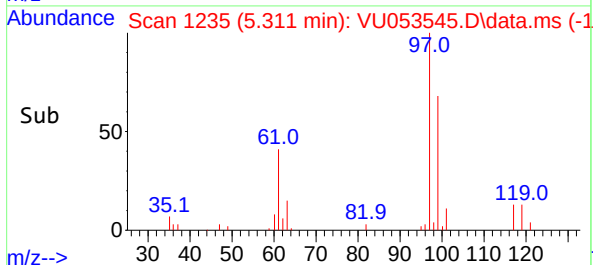
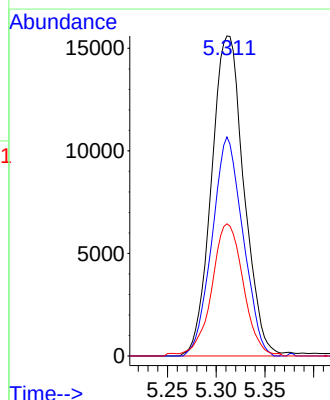
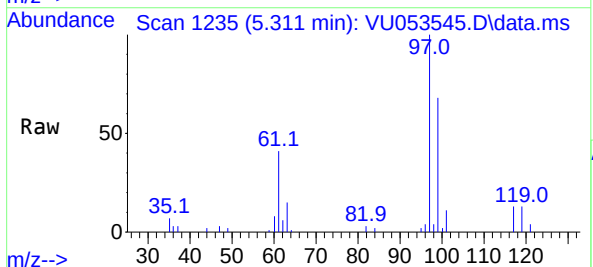
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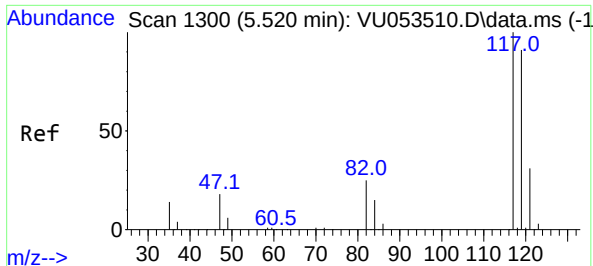
Tgt Ion: 62 Resp: 52288
Ion Ratio Lower Upper
62 100
98 9.8 8.3 12.5



#30
1,1,1-Trichloroethane
Concen: 13.640 ug/L
RT: 5.311 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion: 97 Resp: 36102
Ion Ratio Lower Upper
97 100
99 65.3 51.6 77.4
61 40.1 31.0 46.4

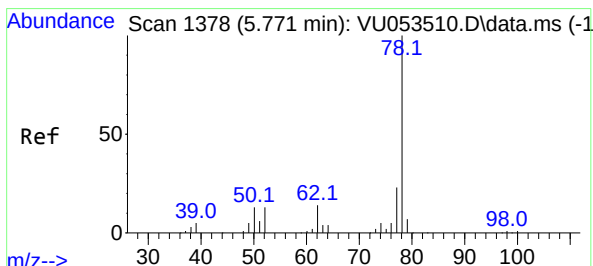
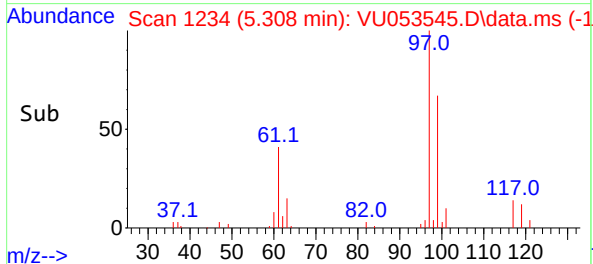
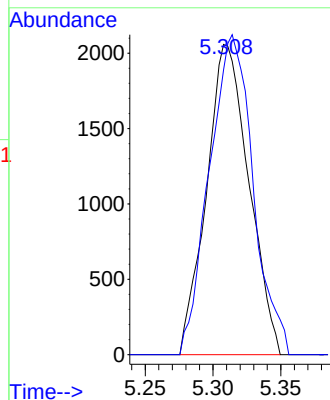
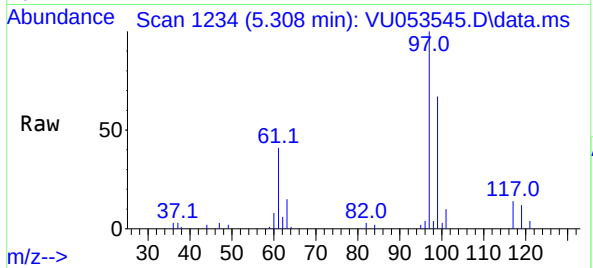




#31
Carbon tetrachloride
Concen: 1.888 ug/L
RT: 5.308 min Scan# 117
Delta R.T. -0.212 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

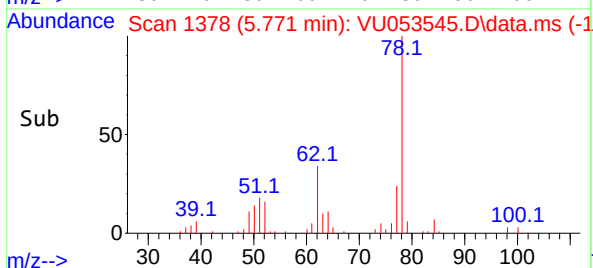
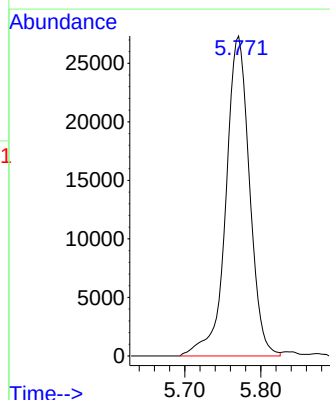
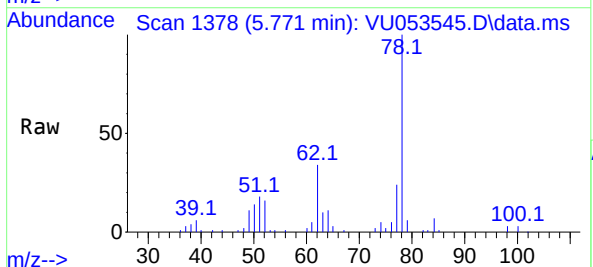
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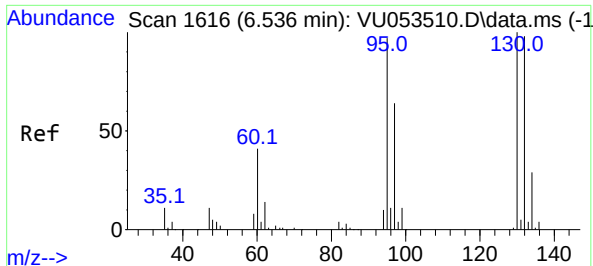
Tgt Ion:117 Resp: 4476
Ion Ratio Lower Upper
117 100
119 106.3 76.9 115.3



#33
Benzene
Concen: 9.419 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. 0.003 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion: 78 Resp: 58949

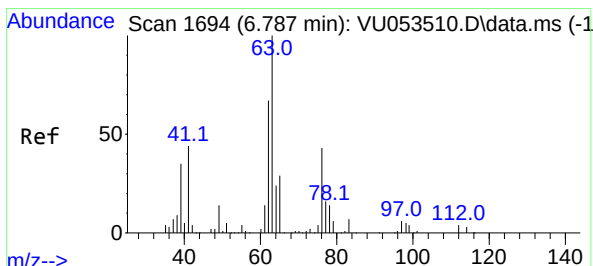
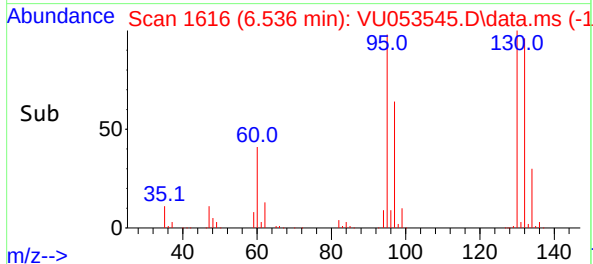
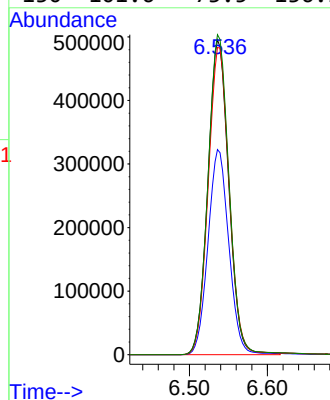
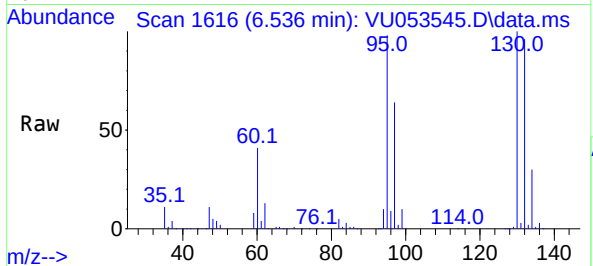




#34
Trichloroethene
Concen: 486.358 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

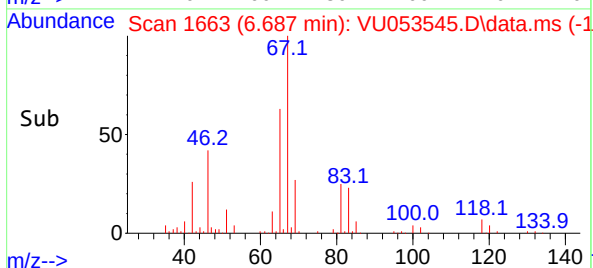
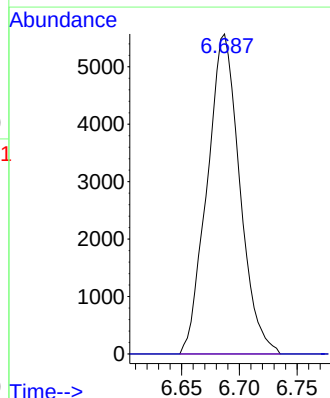
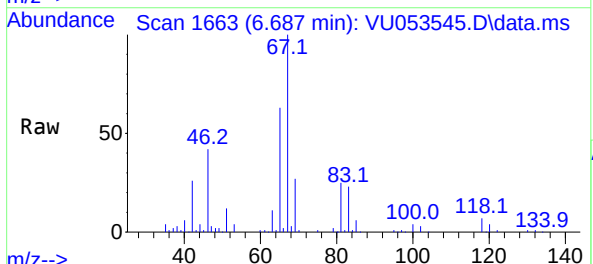
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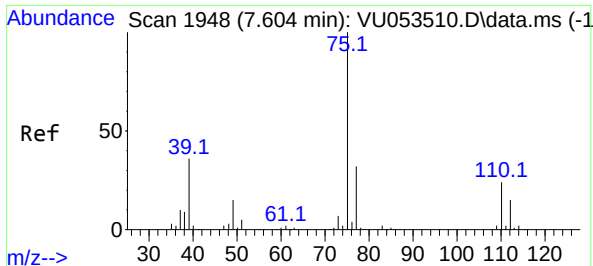
Tgt Ion: 95 Resp: 920611
Ion Ratio Lower Upper
95 100
97 65.2 45.1 83.7
132 97.6 74.1 137.5
130 101.6 73.5 136.5



#37
1,2-Dichloropropane
Concen: 6.886 ug/L
RT: 6.687 min Scan# 1663
Delta R.T. -0.096 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion: 63 Resp: 10943
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 1.121 ug/L

RT: 7.562 min Scan# 1948

Delta R.T. -0.039 min

Lab File: VU053545.D

Acq: 04 Apr 2023 01:55

Instrument :

MSVOA_U

ClientSampleId :

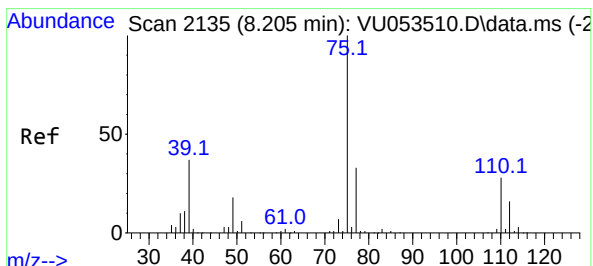
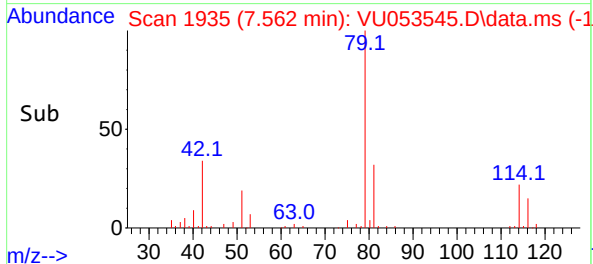
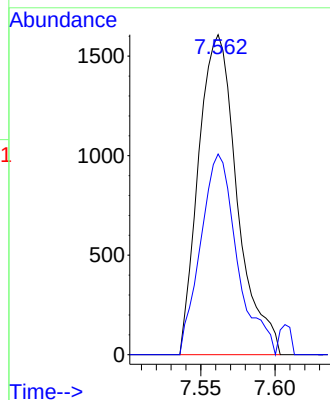
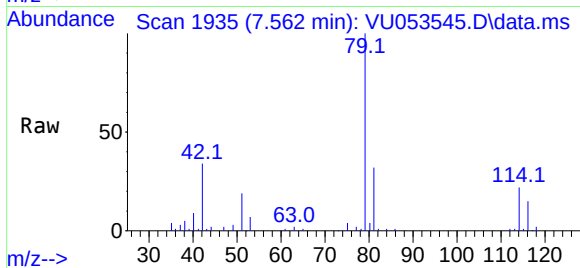
PMW-2(20230330)

Tgt Ion: 75 Resp: 2910

Ion Ratio Lower Upper

75 100

77 62.7 22.5 41.7#



#44

trans-1,3-Dichloropropene

Concen: 0.885 ug/L

RT: 8.176 min Scan# 2126

Delta R.T. -0.029 min

Lab File: VU053545.D

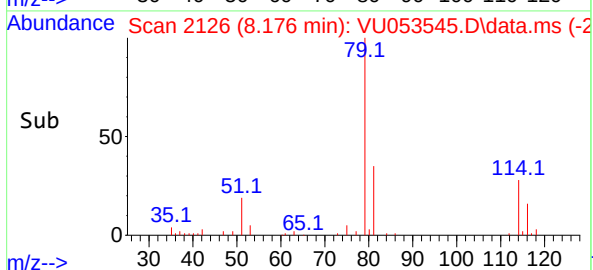
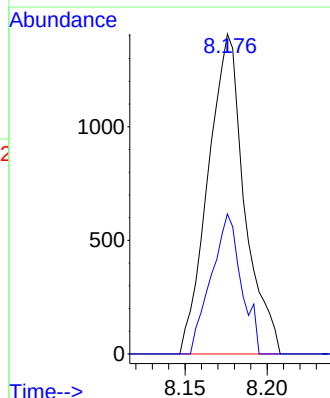
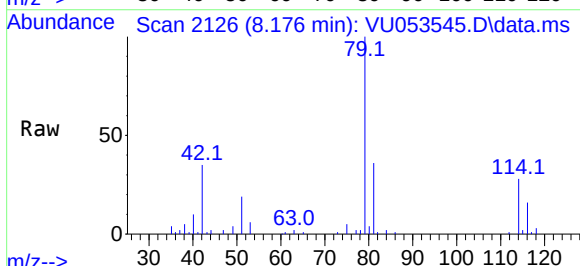
Acq: 04 Apr 2023 01:55

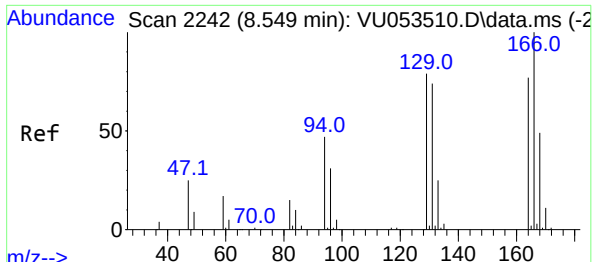
Tgt Ion: 75 Resp: 2172

Ion Ratio Lower Upper

75 100

77 43.8 21.8 40.4#



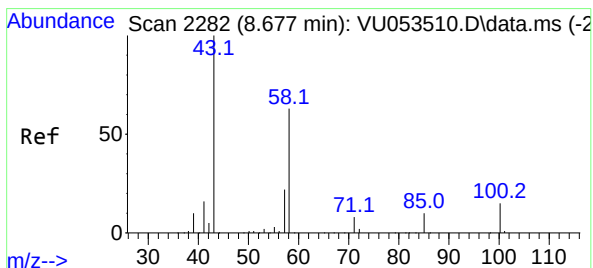
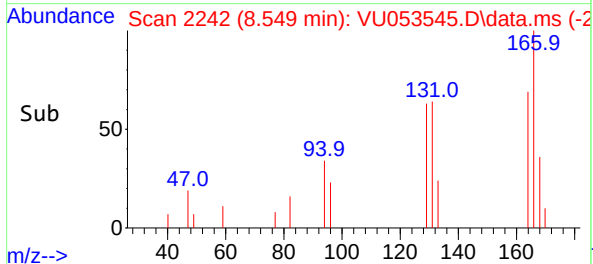
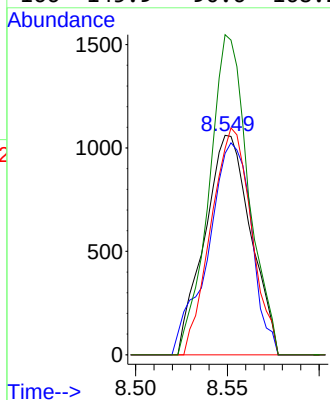
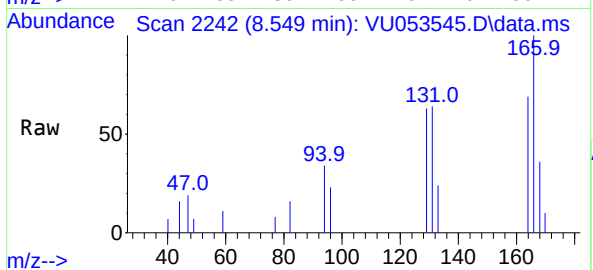


#46
Tetrachloroethene
Concen: 1.178 ug/L
RT: 8.549 min Scan# 211
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Instrument :
MSVOA_U
ClientSampleId :
PMW-2(20230330)

Tgt Ion:164 Resp: 1851

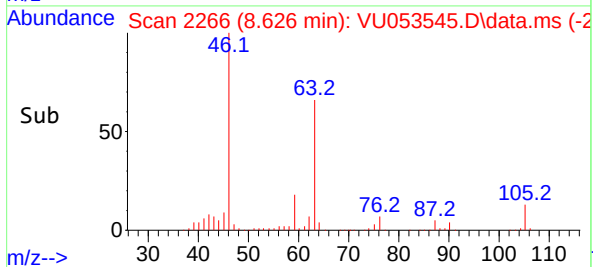
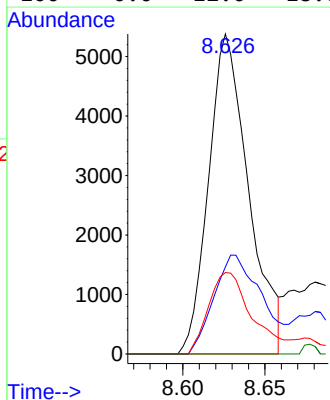
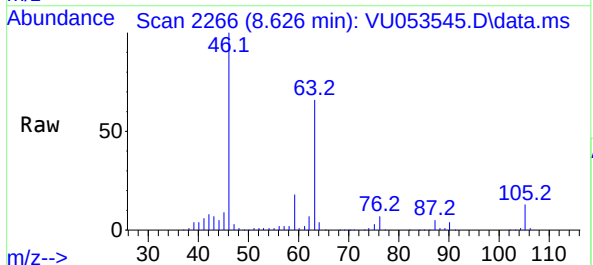
Ion	Ratio	Lower	Upper
164	100		
129	91.8	64.0	119.0
131	94.1	61.9	115.1
166	145.9	90.6	168.2

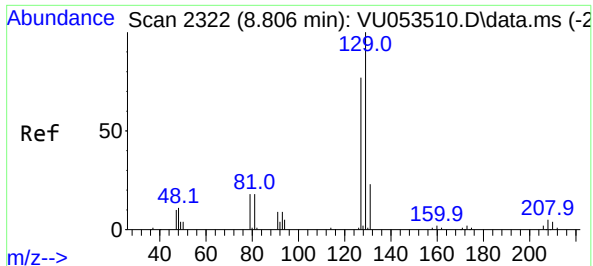


#48
2-Hexanone
Concen: 6.533 ug/L
RT: 8.626 min Scan# 2266
Delta R.T. -0.051 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion: 43 Resp: 9126

Ion	Ratio	Lower	Upper
43	100		
58	36.8	49.8	74.6#
57	27.8	17.8	26.6#
100	0.0	12.0	18.0#

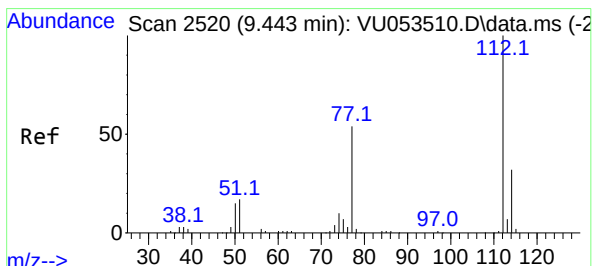
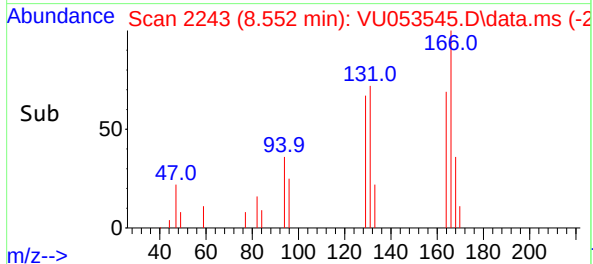
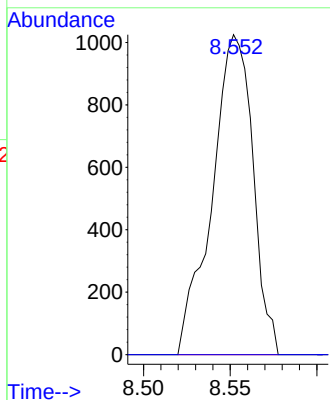
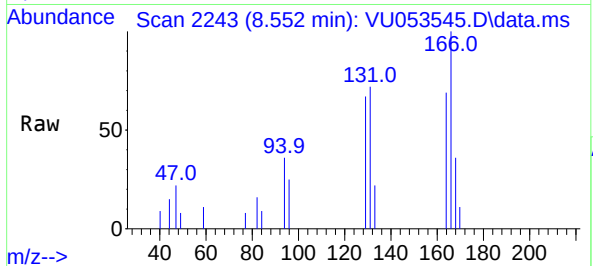




#49
Dibromochloromethane
Concen: 0.929 ug/L
RT: 8.552 min Scan# 21
Delta R.T. -0.251 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

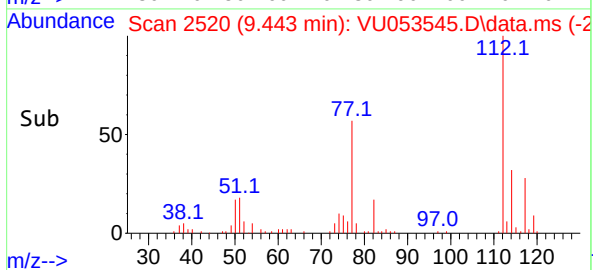
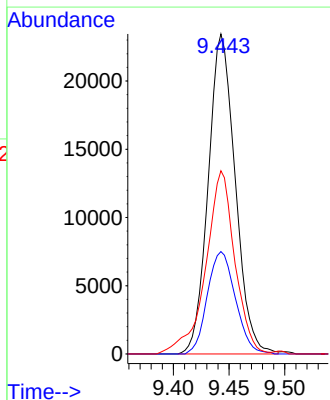
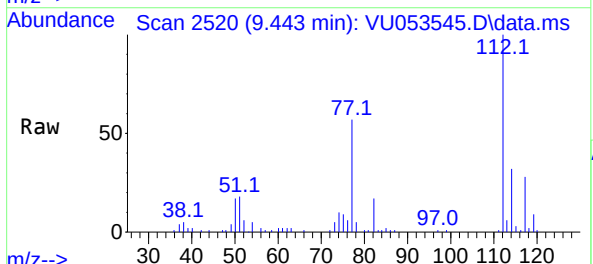
Instrument :
MSVOA_U
ClientSampleId :
PMW-2(20230330)

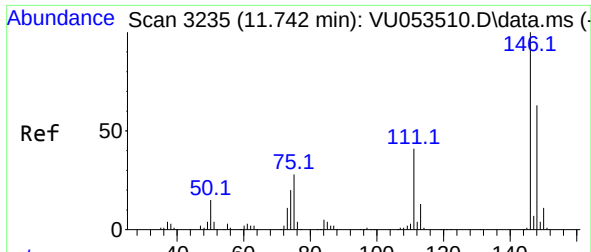
Tgt Ion:129 Resp: 1686
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.3#



#51
Chlorobenzene
Concen: 8.091 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion:112 Resp: 39536
Ion Ratio Lower Upper
112 100
114 32.0 22.2 41.2
77 57.3 41.3 61.9

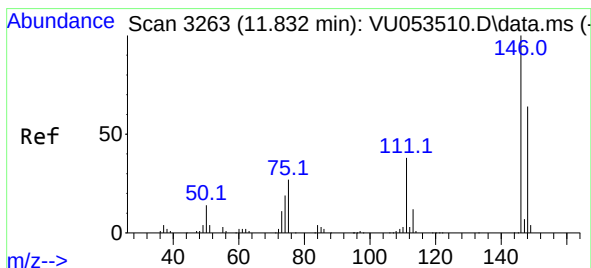
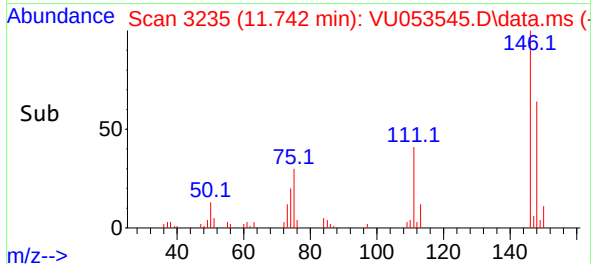
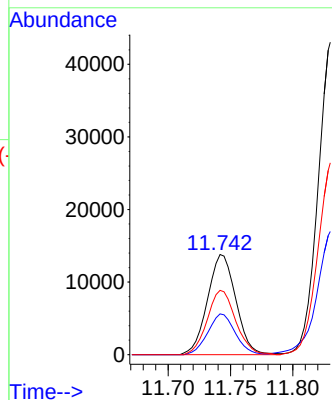
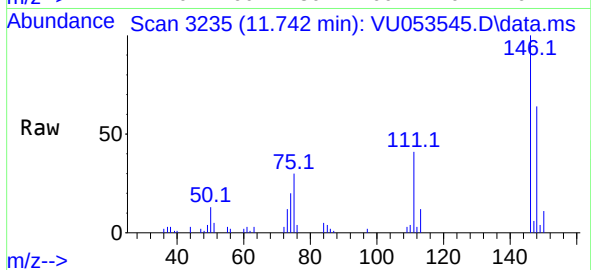




#64
1,3-Dichlorobenzene
Concen: 5.743 ug/L
RT: 11.742 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

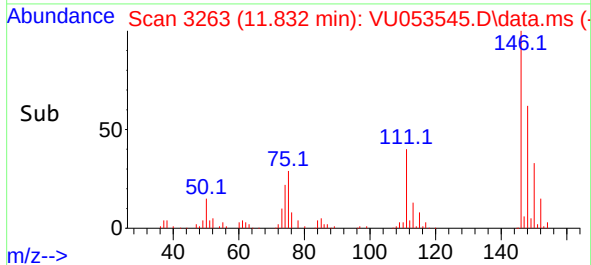
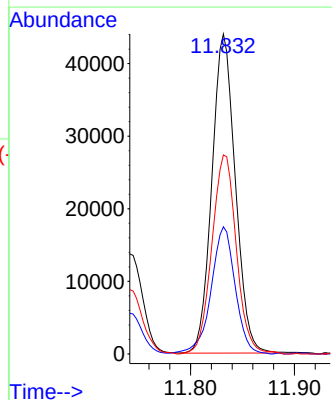
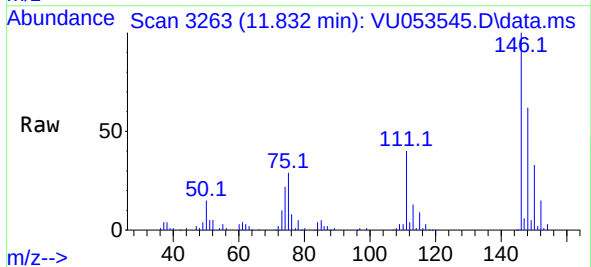
Instrument :
MSVOA_U
ClientSampleId :
PMW-2(20230330)

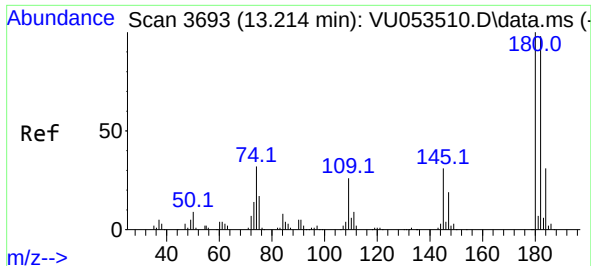
Tgt Ion:146 Resp: 21840
Ion Ratio Lower Upper
146 100
111 40.7 25.7 47.7
148 64.3 44.2 82.2



#65
1,4-Dichlorobenzene
Concen: 17.773 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU053545.D
Acq: 04 Apr 2023 01:55

Tgt Ion:146 Resp: 68887
Ion Ratio Lower Upper
146 100
111 39.8 25.1 46.5
148 62.2 44.3 82.3



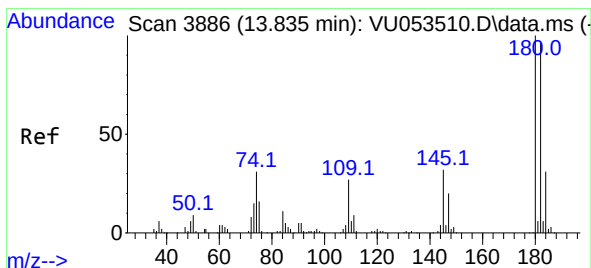
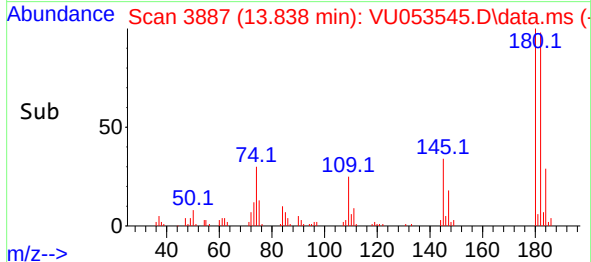
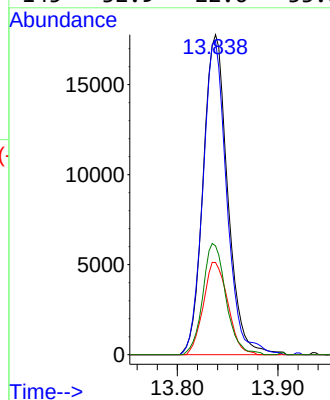
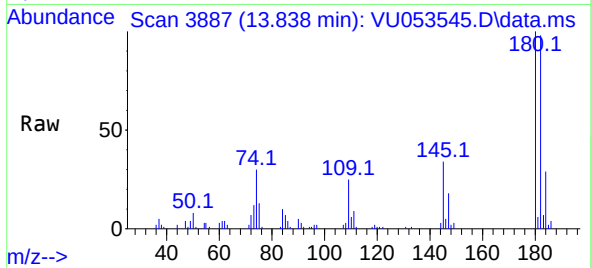


#69
 1,3,5-Trichlorobenzene
 Concen: 10.661 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.624 min
 Lab File: VU053545.D
 Acq: 04 Apr 2023 01:55

Instrument :
 MSVOA_U
 ClientSampleId :
 PMW-2(20230330)

Tgt Ion:180 Resp: 30023

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.6	113.4
184	28.8	24.2	36.2
145	32.9	22.6	33.8



#70
 1,2,4-trichlorobenzene
 Concen: 11.499 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. 0.003 min
 Lab File: VU053545.D
 Acq: 04 Apr 2023 01:55

Tgt Ion:180 Resp: 30023

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.8	113.8
145	32.9	23.4	35.2

