

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062522\
 Data File : VD073714.D
 Acq On : 25 Jun 2022 17:29
 Operator : VA/SY
 Sample : N3455-05
 Misc : 4.77G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-EXC-2-1

Quant Time: Jun 27 09:39:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D062322S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 24 07:36:47 2022
 Response via : Initial Calibration

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

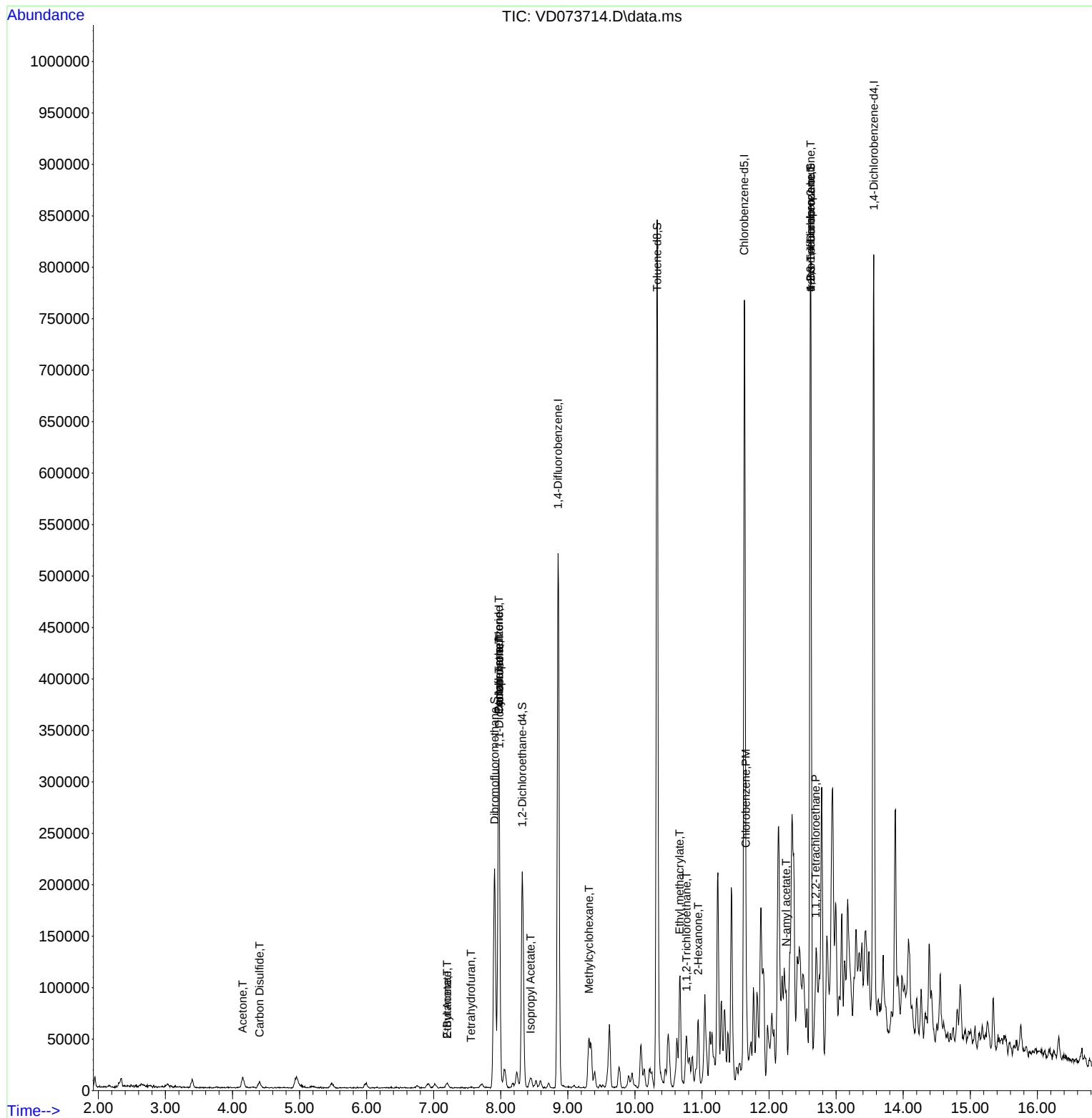
Internal Standards						
1) Pentafluorobenzene	7.973	168	234545	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	450173	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	453215	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	210956	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	164162	56.986	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.980%			
35) Dibromofluoromethane	7.908	113	155690	44.396	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 88.800%			
50) Toluene-d8	10.332	98	563195	44.728	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 89.460%			
62) 4-Bromofluorobenzene	12.620	95	222616	47.139	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 94.280%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.203	50	403	Below Cal	#	40
5) Bromomethane	2.779	94	577	Below Cal		96
11) Tert butyl alcohol	5.197	59	770	Below Cal	#	100
16) Acetone	4.150	43	17618	31.440	ug/l	99
17) Carbon Disulfide	4.403	76	11095	1.824	ug/l #	91
18) Methyl Acetate	4.938	43	1771	Below Cal	#	50
20) Methylene Chloride	4.956	84	7237	Below Cal	#	86
25) 2-Butanone	7.203	43	3552	4.893	ug/l	97
29) Tetrahydrofuran	7.555	42	516	1.169	ug/l #	39
31) Cyclohexane	7.973	56	7708	1.784	ug/l #	43
36) 1,1-Dichloropropene	7.979	75	18367	3.731	ug/l #	47
37) Ethyl Acetate	7.203	43	3552	1.838	ug/l #	70
38) Carbon Tetrachloride	7.973	117	24142	4.212	ug/l #	16
39) Methylcyclohexane	9.314	83	8061	1.475	ug/l #	36
43) Isopropyl Acetate	8.444	43	4005	1.056	ug/l #	50
55) 1,1,2-Trichloroethane	10.767	97	16265	5.563	ug/l #	25
56) Ethyl methacrylate	10.667	69	11408	3.462	ug/l #	10
59) 2-Hexanone	10.944	43	23579	17.927	ug/l #	30
65) Chlorobenzene	11.655	112	16081	1.450	ug/l	97
74) N-amyl acetate	12.255	43	17381	4.931	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.696	83	5221	1.607	ug/l #	77
76) 1,2,3-Trichloropropane	12.620	75	104462	50.885	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	104462	103.884	ug/l #	12

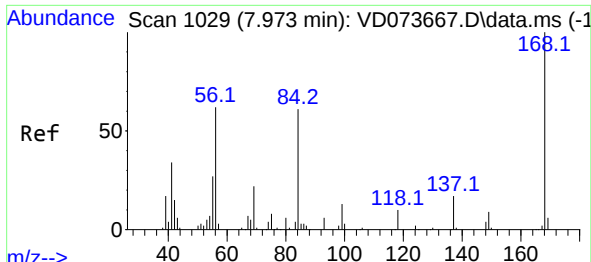
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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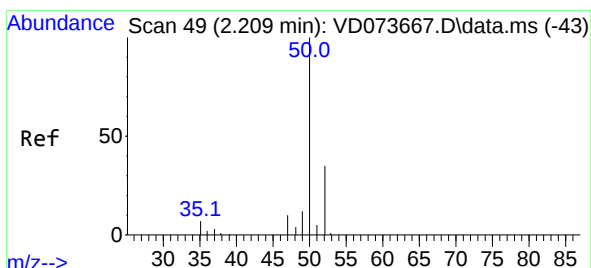
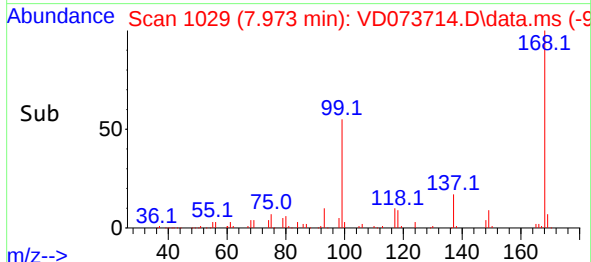
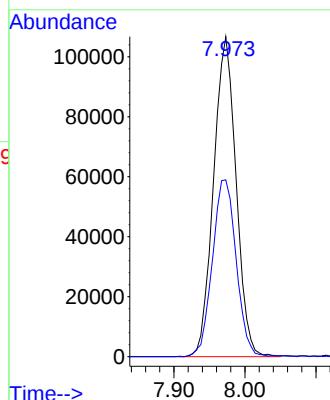
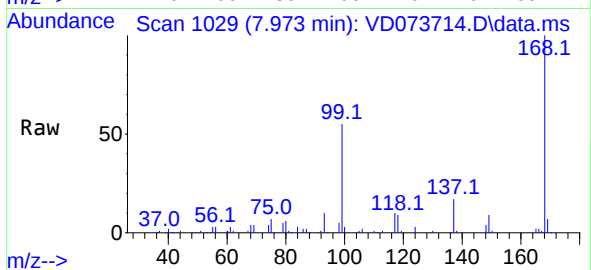




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

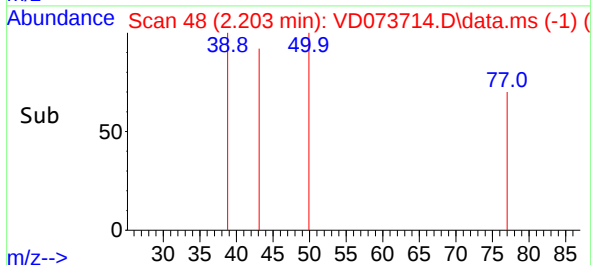
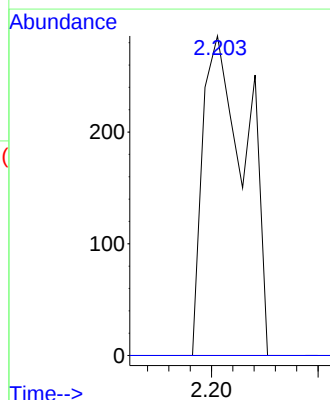
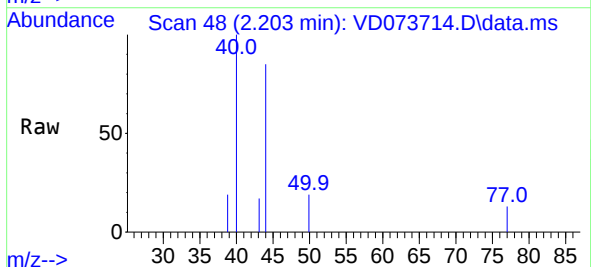
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

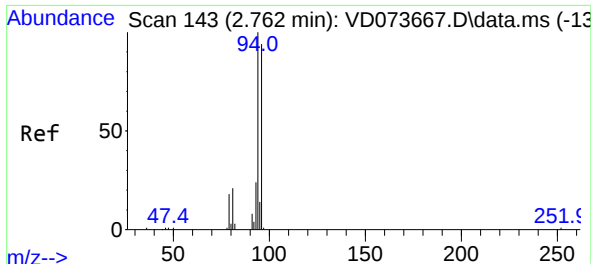
Tgt Ion:168 Resp: 234545
Ion Ratio Lower Upper
168 100
99 55.1 46.4 69.6



#3
Chloromethane
Concen: Below Cal
RT: 2.203 min Scan# 48
Delta R.T. -0.006 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 50 Resp: 403
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.6#

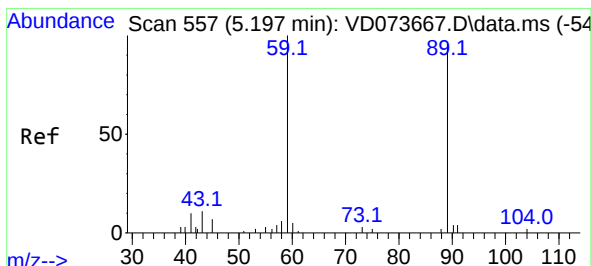
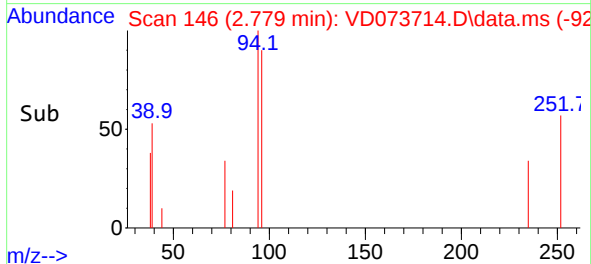
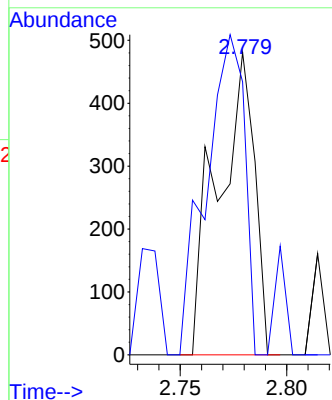
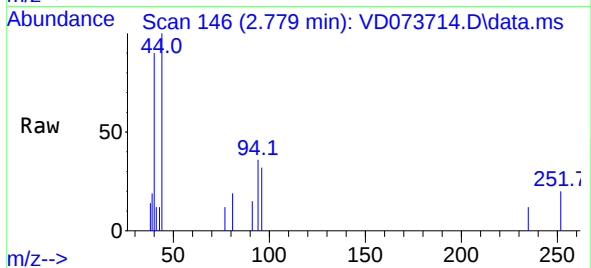




#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 14
Delta R.T. 0.017 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

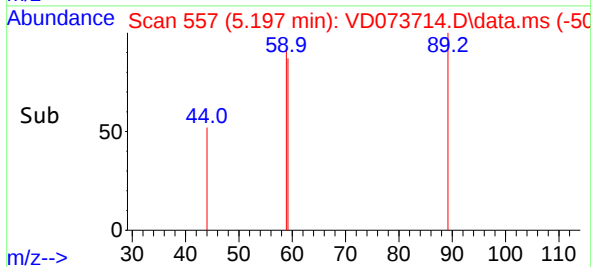
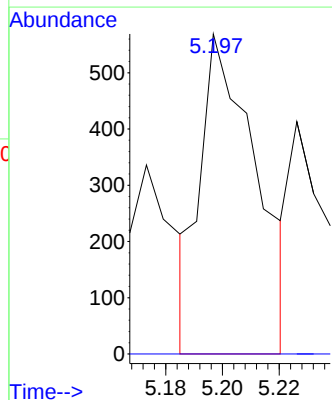
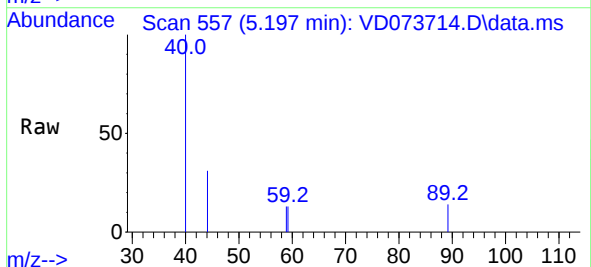
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

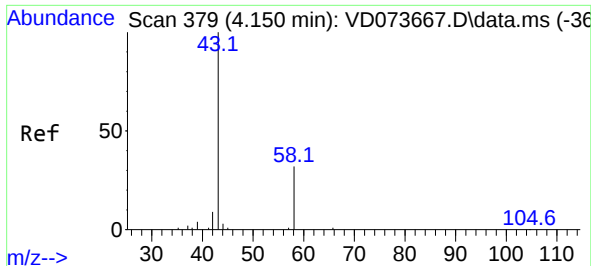
Tgt Ion: 94 Resp: 577
Ion Ratio Lower Upper
94 100
96 90.2 75.1 112.7



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.197 min Scan# 557
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 59 Resp: 770
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

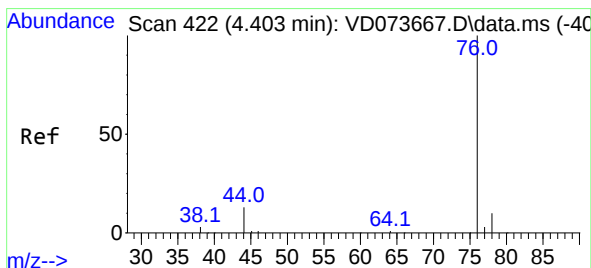
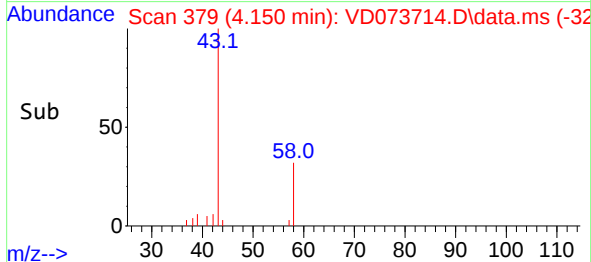
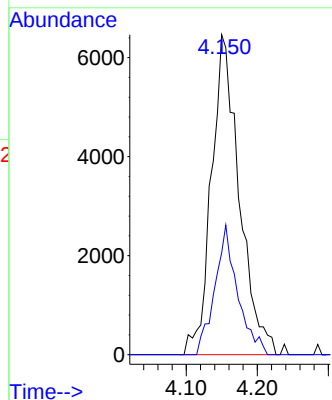
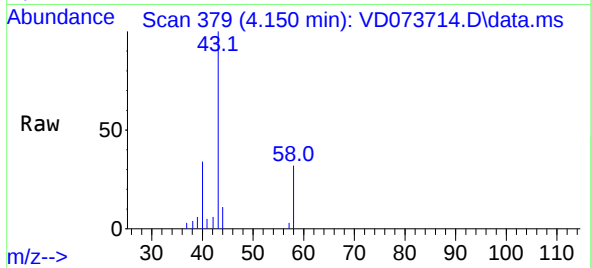




#16
Acetone
Concen: 31.440 ug/l
RT: 4.150 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

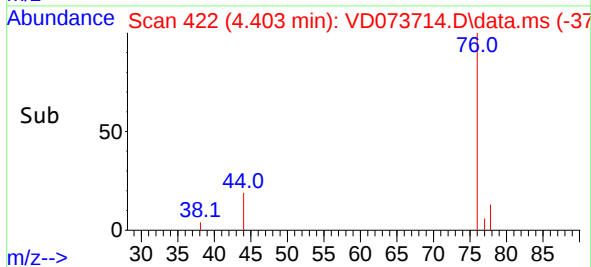
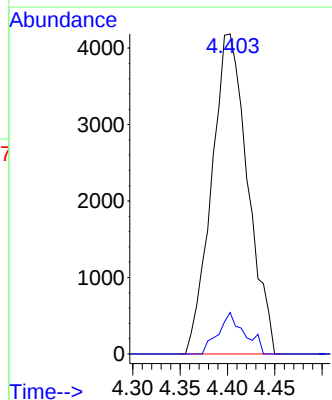
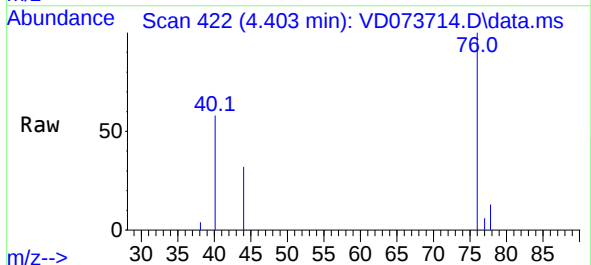
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

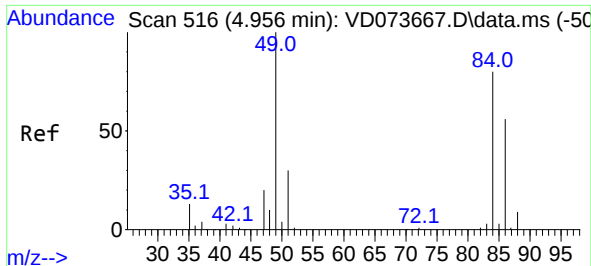
Tgt Ion: 43 Resp: 17618
Ion Ratio Lower Upper
43 100
58 31.8 25.2 37.8



#17
Carbon Disulfide
Concen: 1.824 ug/l
RT: 4.403 min Scan# 422
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 76 Resp: 11095
Ion Ratio Lower Upper
76 100
78 13.0 7.7 11.5#



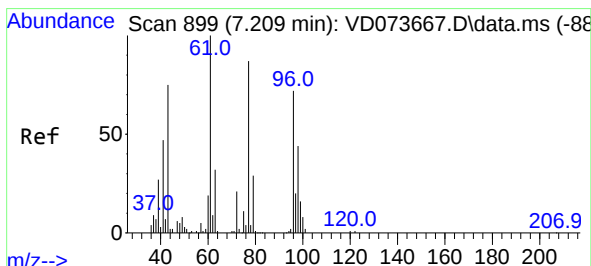
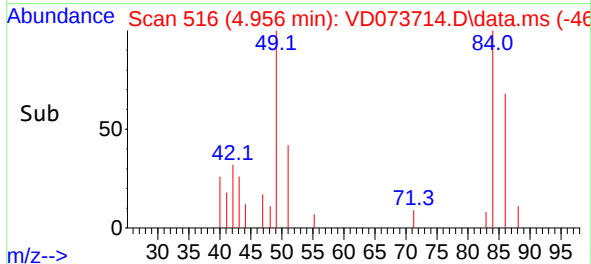
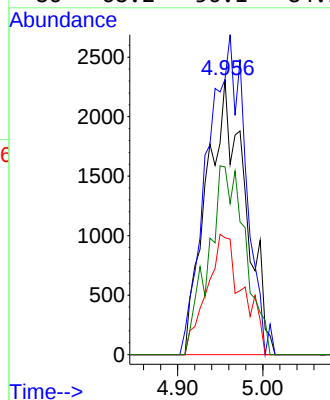
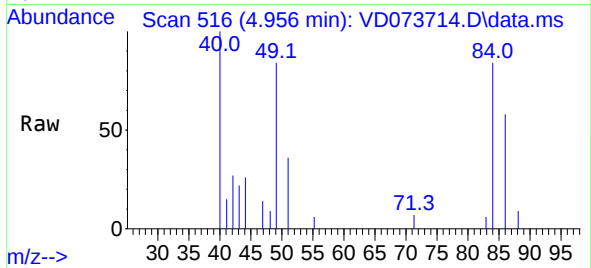


#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 516
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

Tgt Ion: 84 Resp: 7237

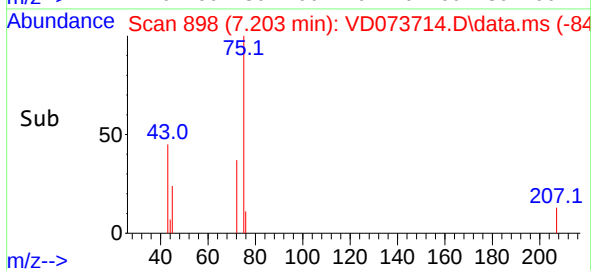
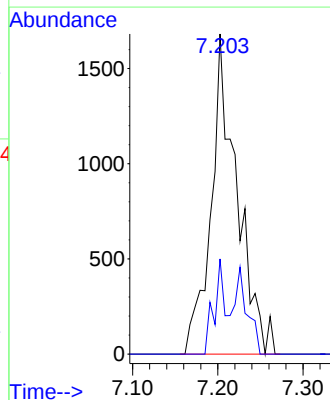
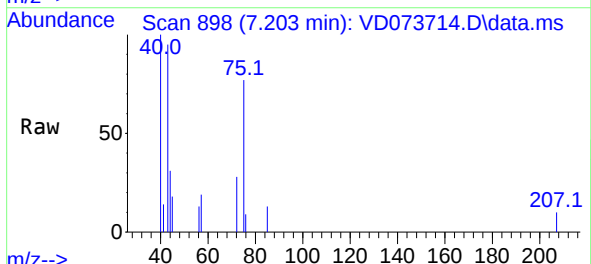
Ion	Ratio	Lower	Upper
84	100		
49	100.0	100.6	150.8#
51	42.5	29.8	44.6
86	68.2	56.1	84.1

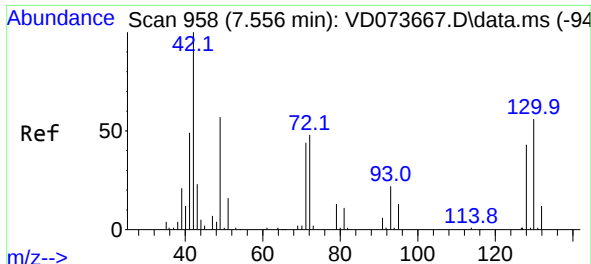


#25
2-Butanone
Concen: 4.893 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.006 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 43 Resp: 3552

Ion	Ratio	Lower	Upper
43	100		
72	29.7	22.6	33.8





#29

Tetrahydrofuran

Concen: 1.169 ug/l

RT: 7.555 min Scan# 91

Delta R.T. -0.000 min

Lab File: VD073714.D

Acq: 25 Jun 2022 17:29

Instrument :

MSVOA_D

ClientSampleId :

SP-EXC-2-1

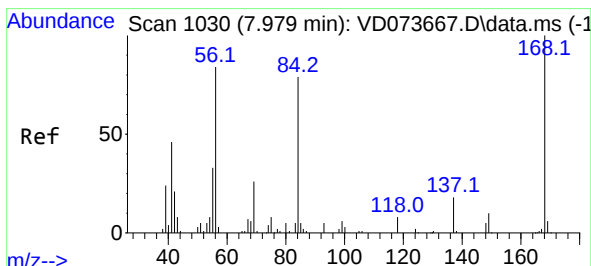
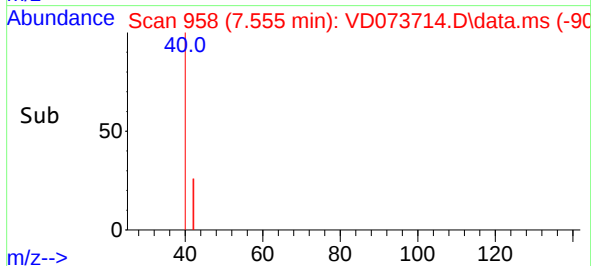
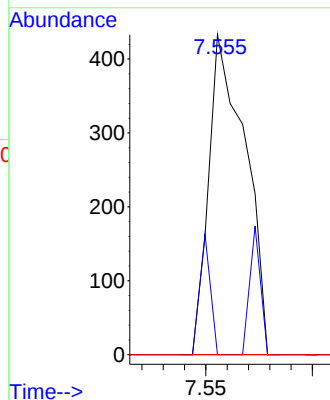
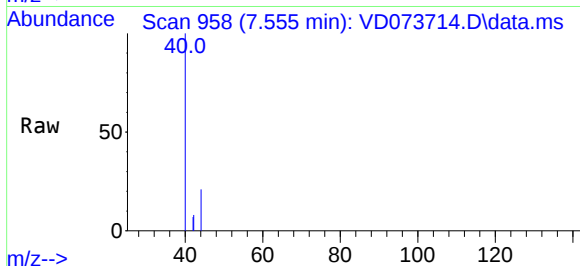
Tgt Ion: 42 Resp: 516

Ion Ratio Lower Upper

42 100

72 11.2 37.8 56.6#

71 0.0 35.5 53.3#



#31

Cyclohexane

Concen: 1.784 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD073714.D

Acq: 25 Jun 2022 17:29

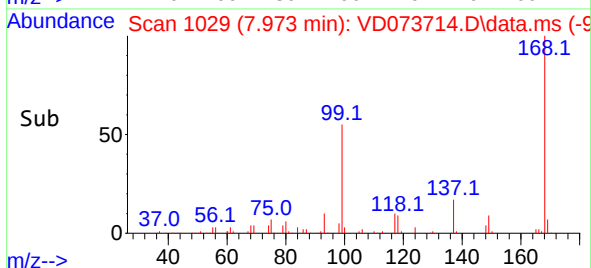
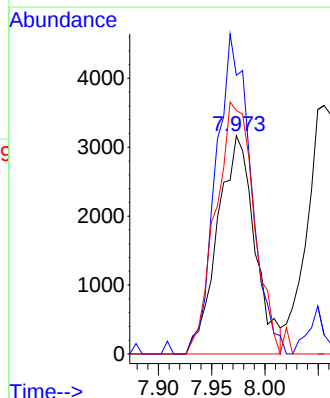
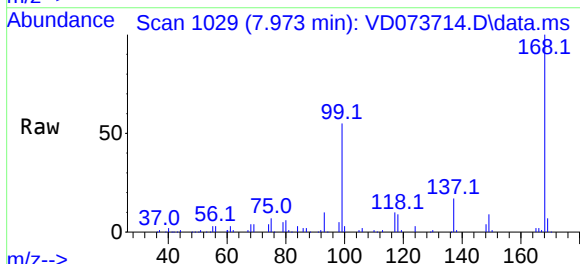
Tgt Ion: 56 Resp: 7708

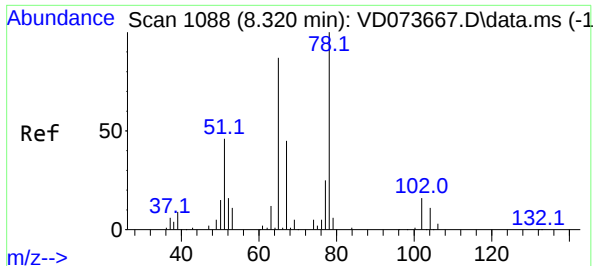
Ion Ratio Lower Upper

56 100

69 127.7 25.2 37.8#

84 111.6 75.4 113.2

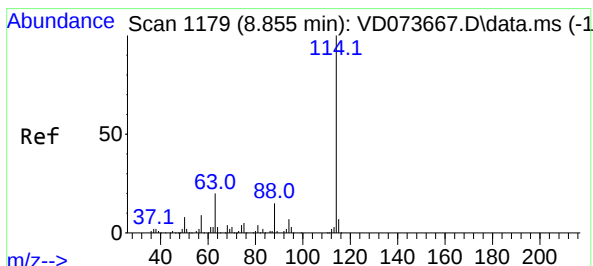
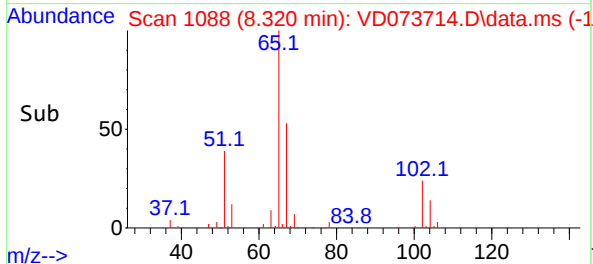
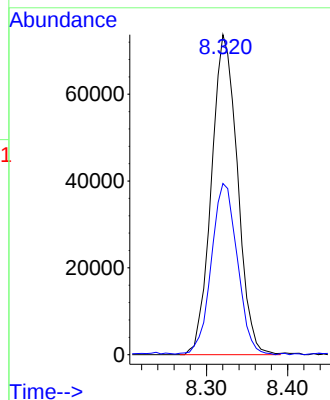
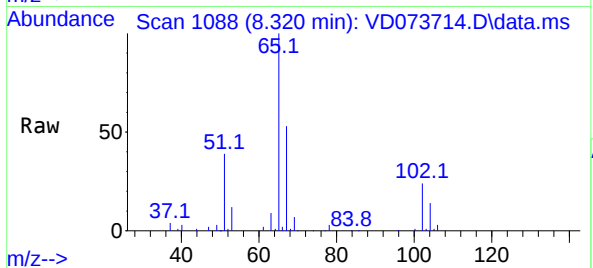




#33
1,2-Dichloroethane-d4
Concen: 56.986 ug/l
RT: 8.320 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

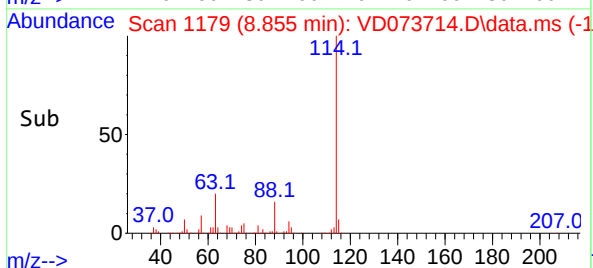
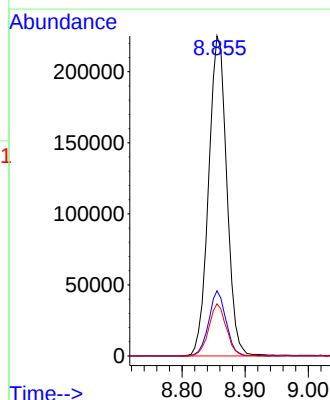
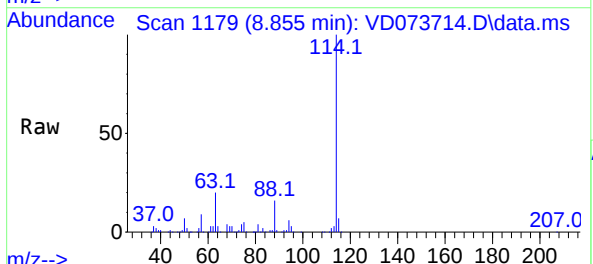
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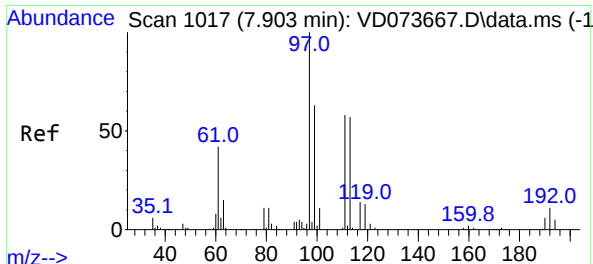
Tgt Ion: 65 Resp: 164162
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1179
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 114 Resp: 450173
Ion Ratio Lower Upper
114 100
63 20.3 0.0 39.2
88 16.3 0.0 29.4

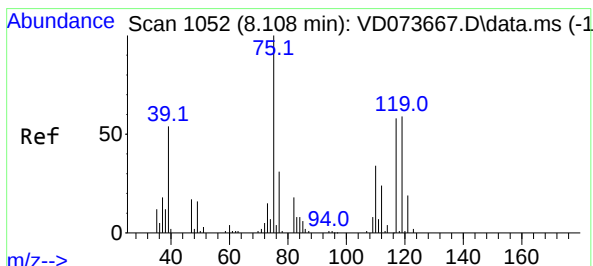
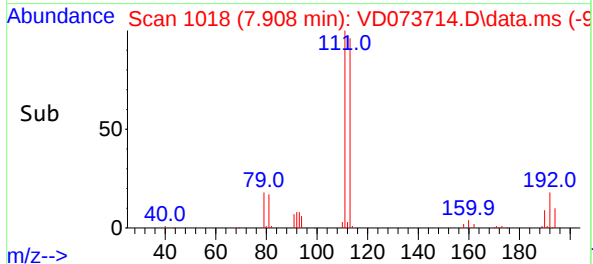
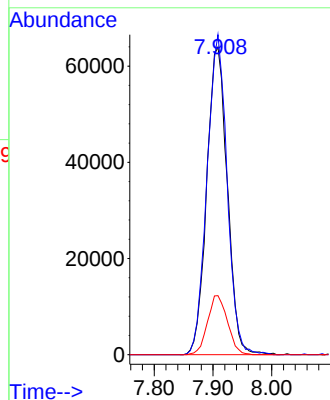
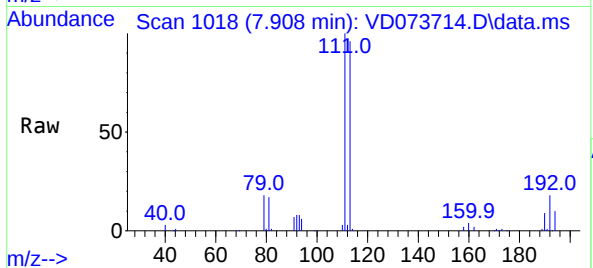




#35
Dibromofluoromethane
Concen: 44.396 ug/l
RT: 7.908 min Scan# 1030
Delta R.T. 0.006 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

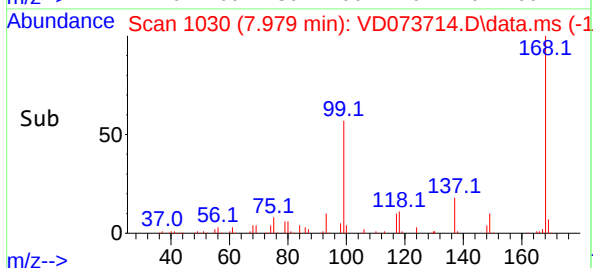
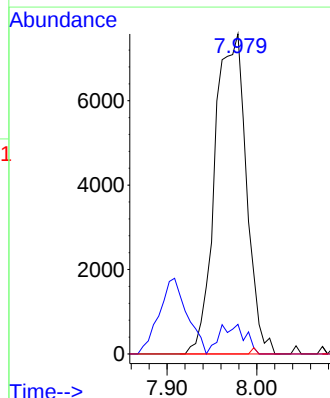
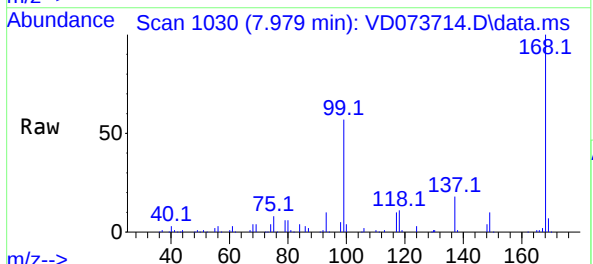
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MSVOA_D
ClientSampleId :
SP-EXC-2-1

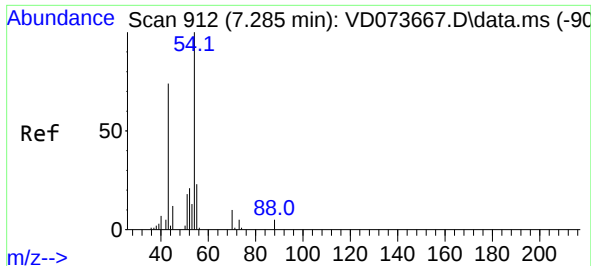
Tgt Ion:113 Resp: 155690
Ion Ratio Lower Upper
113 100
111 101.7 81.8 122.6
192 18.6 14.8 22.2



#36
1,1-Dichloropropene
Concen: 3.731 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.130 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 75 Resp: 18367
Ion Ratio Lower Upper
75 100
110 7.6 18.0 54.0#
77 0.0 25.6 38.4#

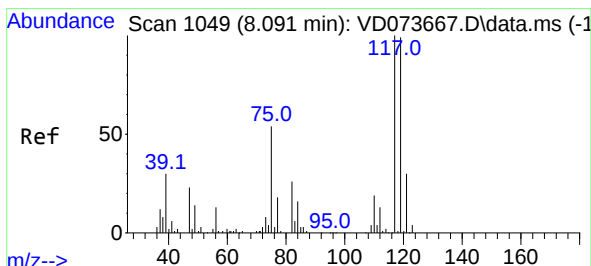
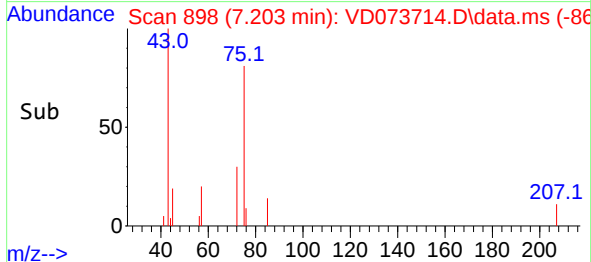
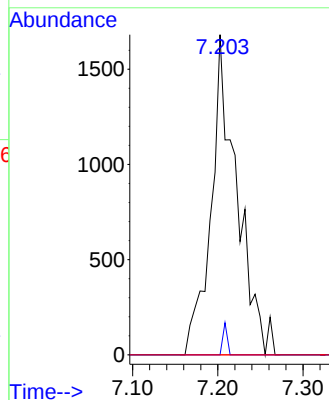
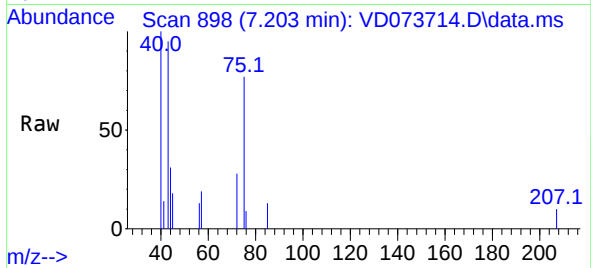




#37
Ethyl Acetate
Concen: 1.838 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.082 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

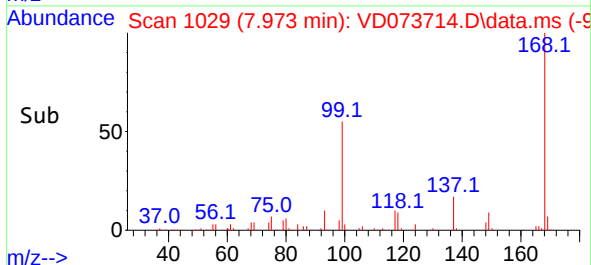
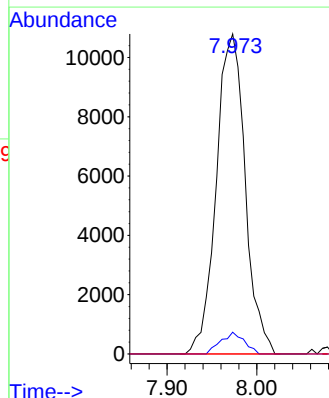
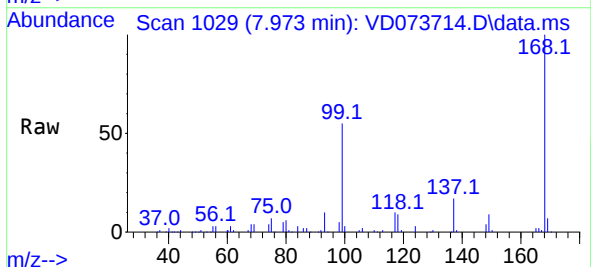
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

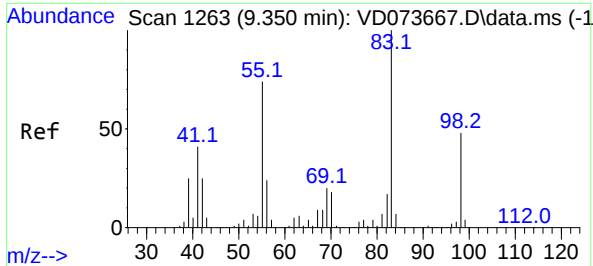
Tgt Ion: 43 Resp: 3552
Ion Ratio Lower Upper
43 100
61 1.7 10.6 16.0#
70 0.0 9.9 14.9#



#38
Carbon Tetrachloride
Concen: 4.212 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.118 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 117 Resp: 24142
Ion Ratio Lower Upper
117 100
119 6.8 79.2 118.8#
121 0.0 23.8 35.8#

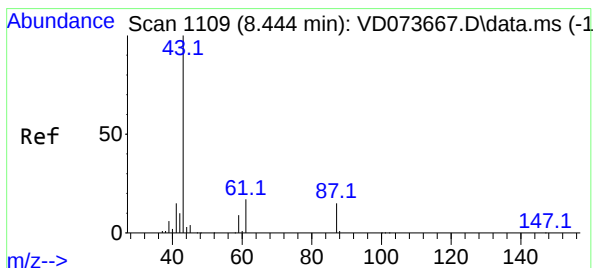
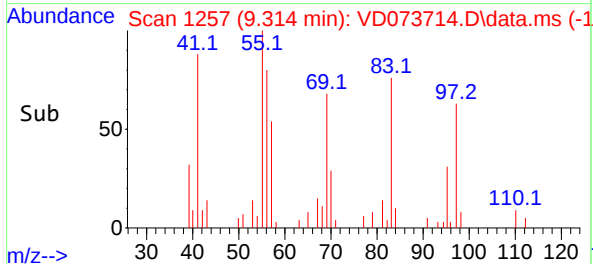
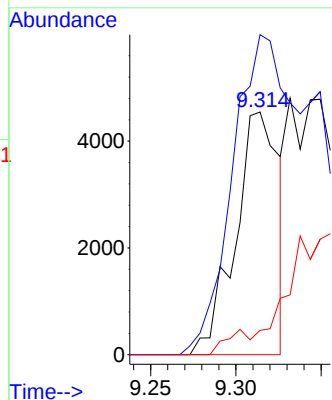
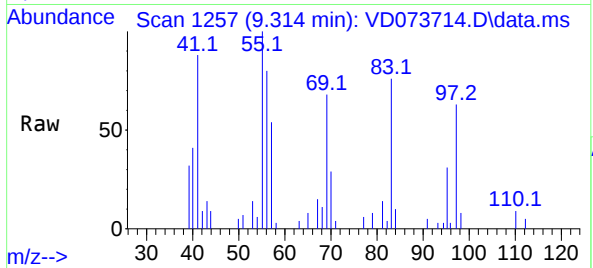




#39
Methylcyclohexane
Concen: 1.475 ug/l
RT: 9.314 min Scan# 1109
Delta R.T. -0.035 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

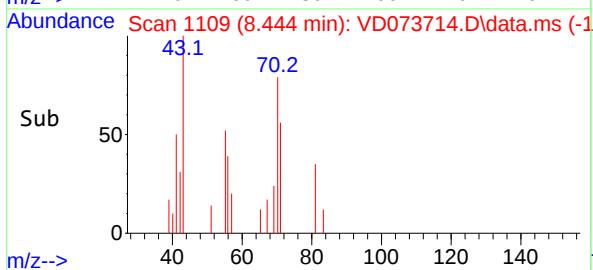
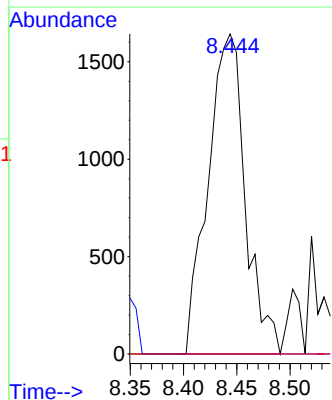
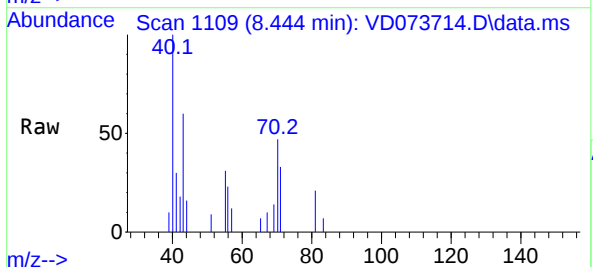
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

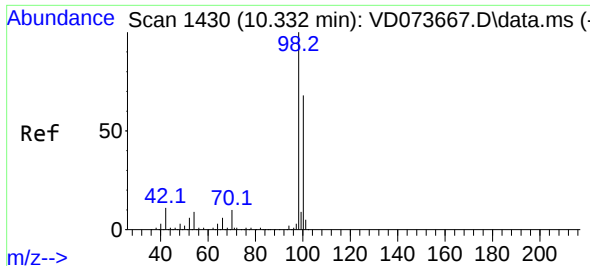
Tgt Ion: 83 Resp: 8061
Ion Ratio Lower Upper
83 100
55 131.8 59.0 88.4#
98 10.0 38.3 57.5#



#43
Isopropyl Acetate
Concen: 1.056 ug/l
RT: 8.444 min Scan# 1109
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 43 Resp: 4005
Ion Ratio Lower Upper
43 100
61 0.0 25.4 38.0#
87 0.0 11.9 17.9#

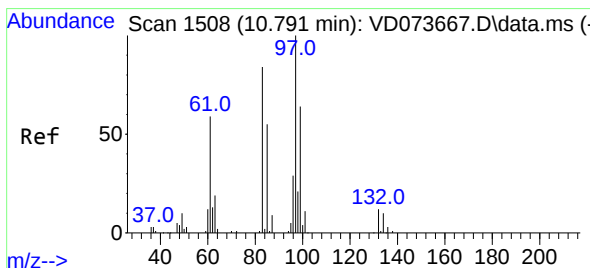
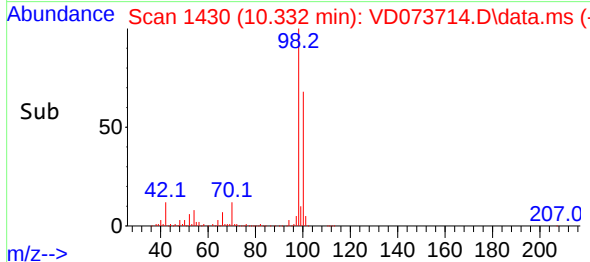
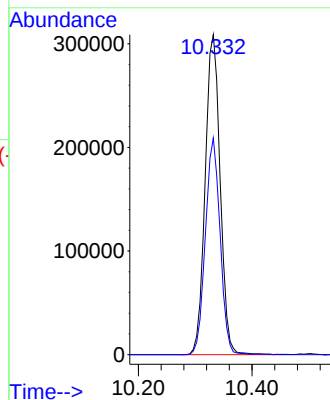
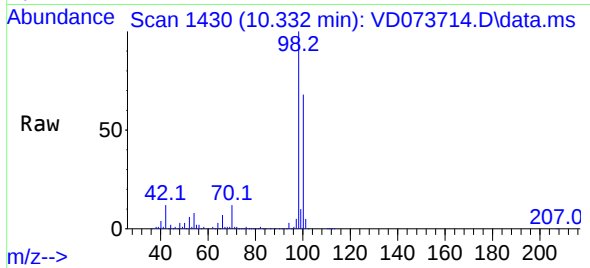




#50
Toluene-d8
Concen: 44.728 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

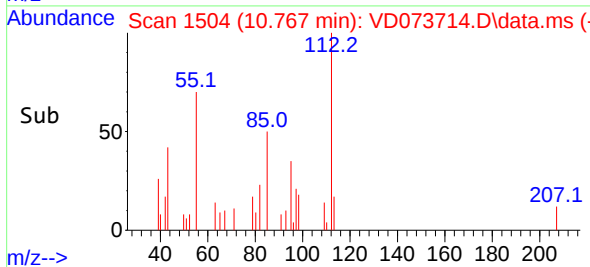
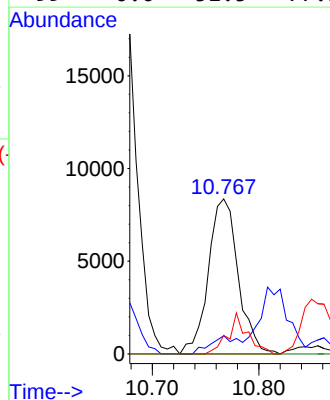
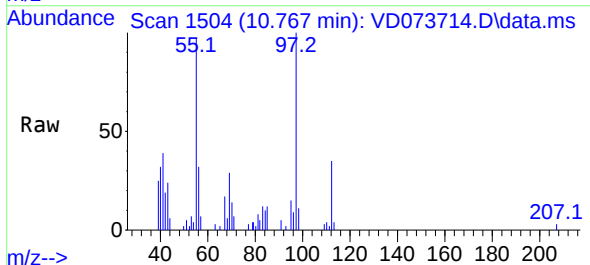
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

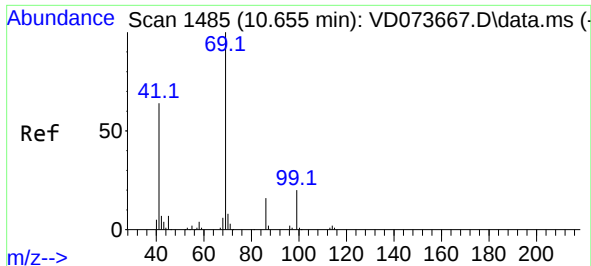
Tgt Ion: 98 Resp: 563195
Ion Ratio Lower Upper
98 100
100 66.5 54.0 81.0



#55
1,1,2-Trichloroethane
Concen: 5.563 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.024 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 97 Resp: 16265
Ion Ratio Lower Upper
97 100
83 11.8 67.1 100.7#
85 12.0 44.0 66.0#
99 0.0 51.5 77.3#

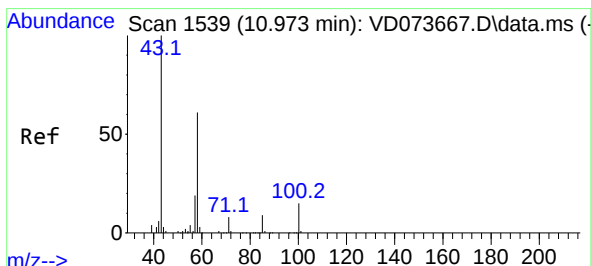
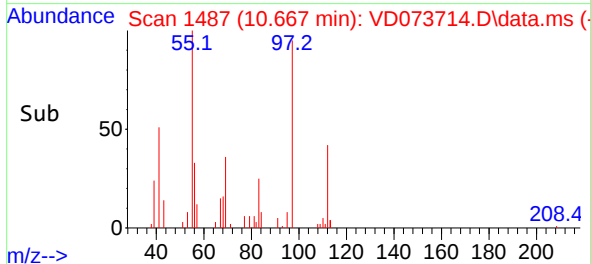
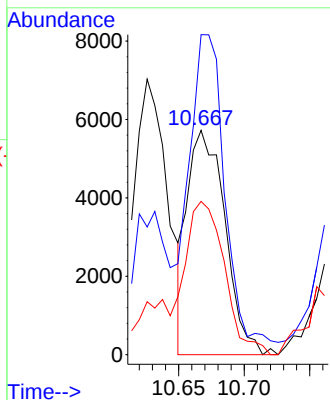
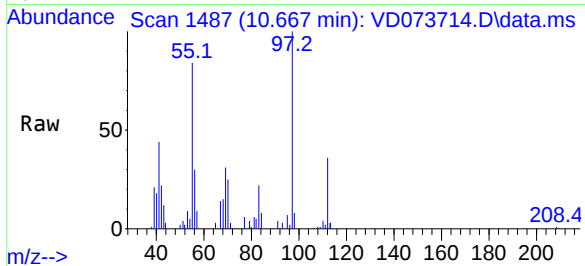




#56
Ethyl methacrylate
Concen: 3.462 ug/l
RT: 10.667 min Scan# 1487
Delta R.T. 0.012 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

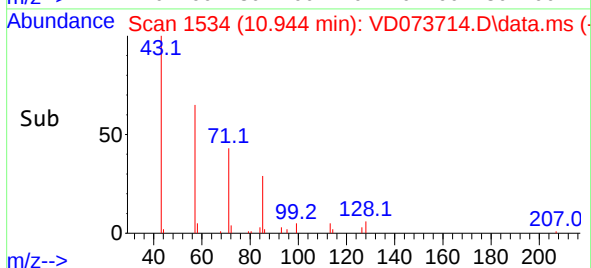
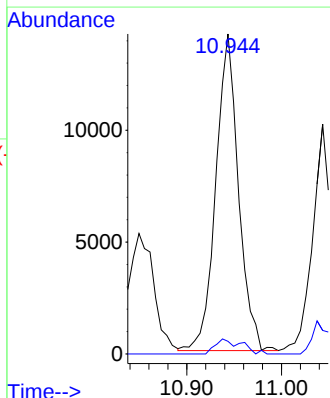
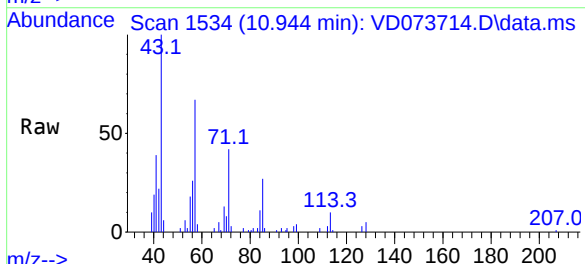
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

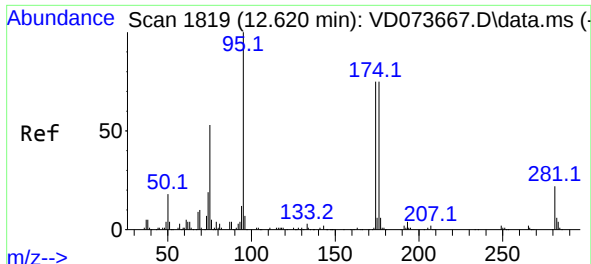
Tgt Ion: 69 Resp: 11408
Ion Ratio Lower Upper
69 100
41 128.7 51.6 77.4#
39 99.0 29.2 43.8#



#59
2-Hexanone
Concen: 17.927 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. -0.029 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 43 Resp: 23579
Ion Ratio Lower Upper
43 100
58 5.5 28.8 86.4#

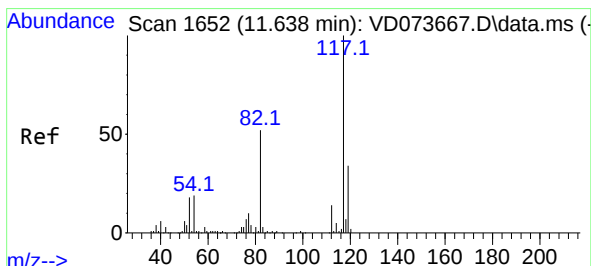
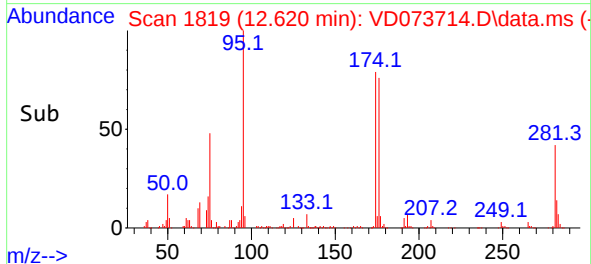
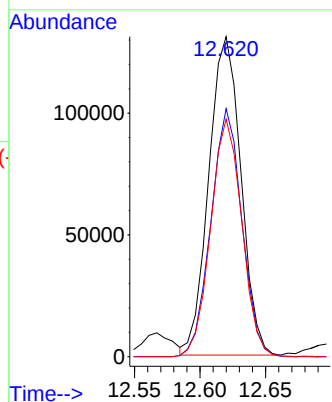
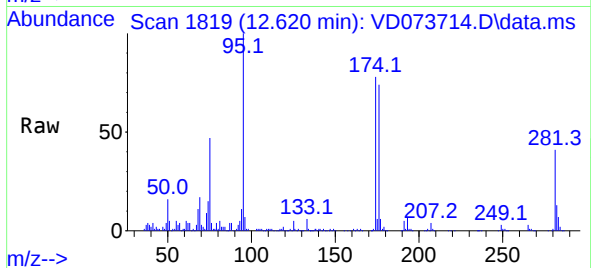




#62
4-Bromofluorobenzene
Concen: 47.139 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

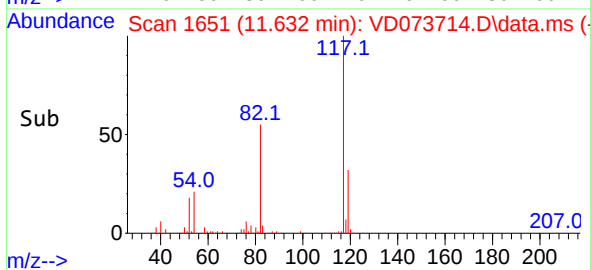
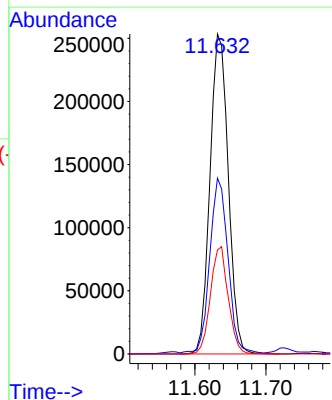
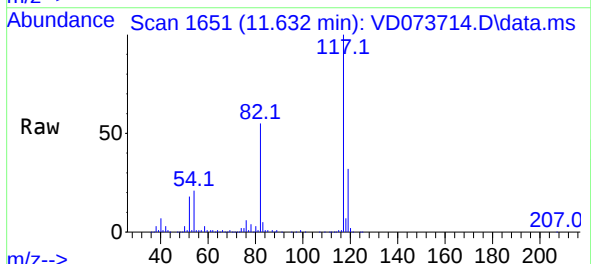
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

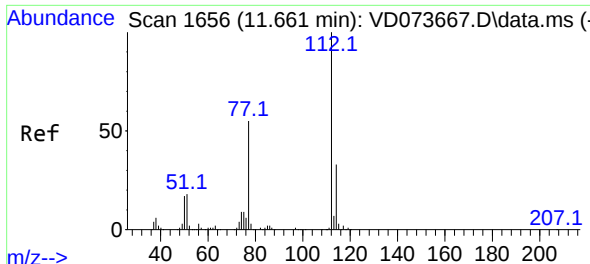
Tgt Ion: 95 Resp: 222616
Ion Ratio Lower Upper
95 100
174 74.9 0.0 158.4
176 72.3 0.0 154.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.006 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 117 Resp: 453215
Ion Ratio Lower Upper
117 100
82 54.6 41.5 62.3
119 32.5 27.1 40.7

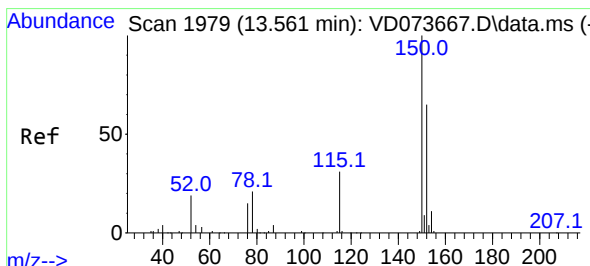
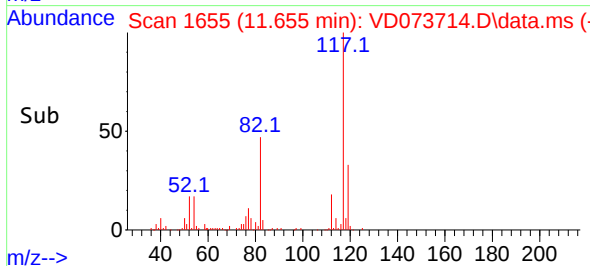
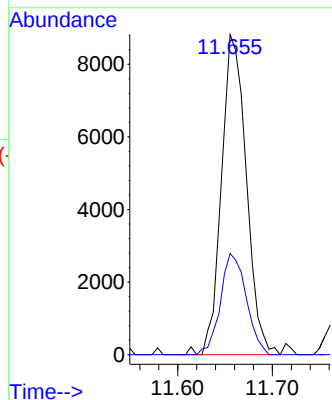
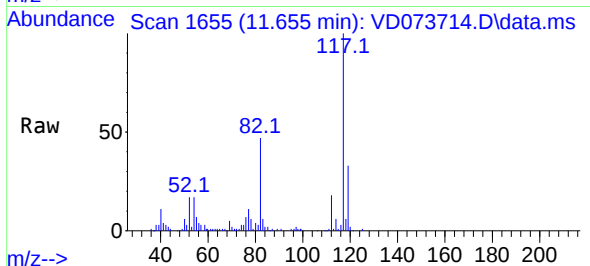




#65
Chlorobenzene
Concen: 1.450 ug/l
RT: 11.655 min Scan# 1655
Delta R.T. -0.006 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

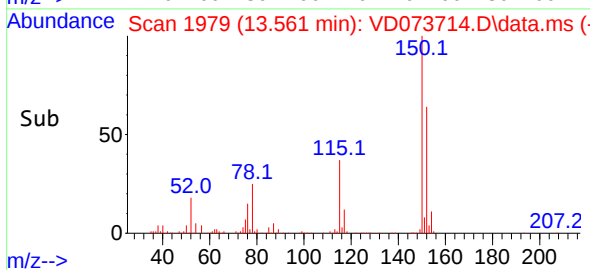
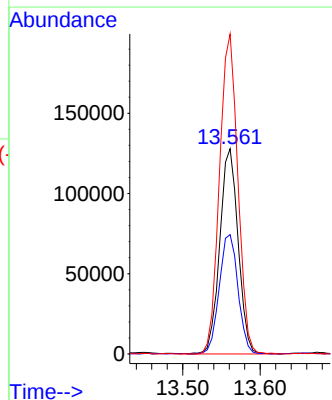
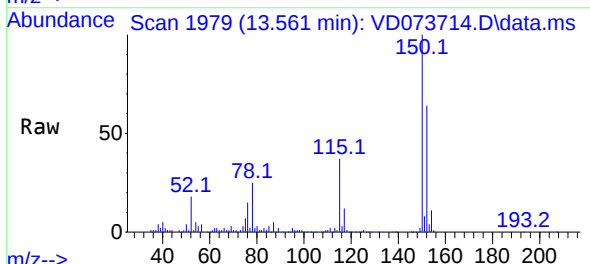
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

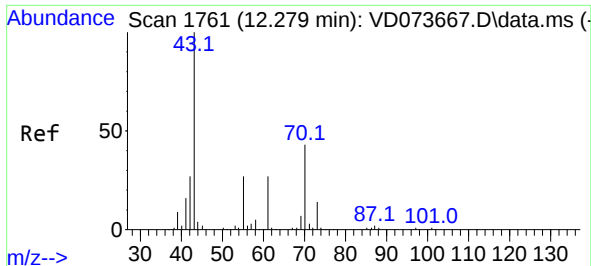
Tgt Ion:112 Resp: 16081
Ion Ratio Lower Upper
112 100
114 31.6 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion:152 Resp: 210956
Ion Ratio Lower Upper
152 100
115 59.5 30.6 91.6
150 155.3 0.0 355.0

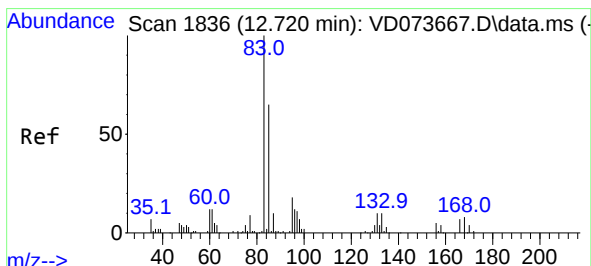
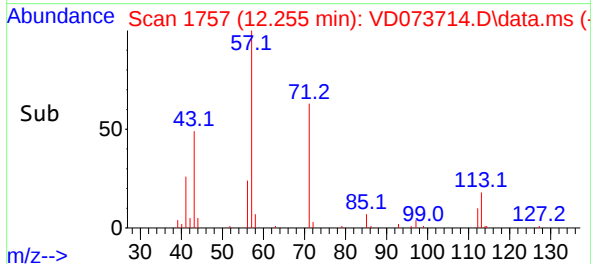
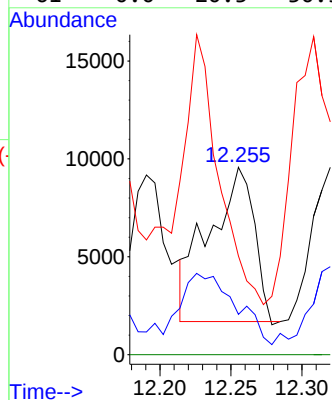
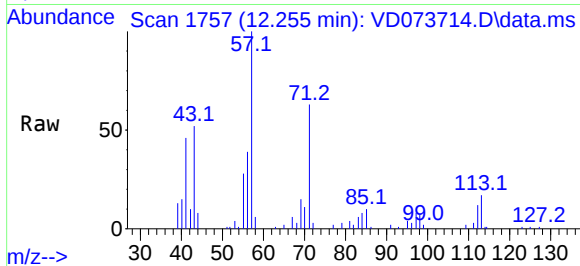




#74
N-amy1 acetate
Concen: 4.931 ug/l
RT: 12.255 min Scan# 1761
Delta R.T. -0.024 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

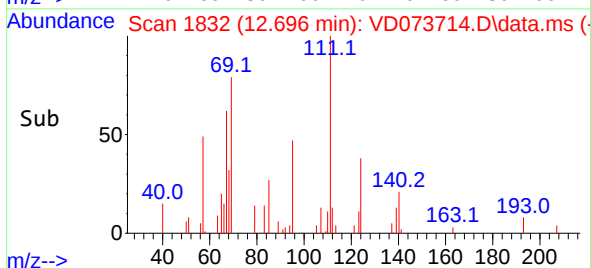
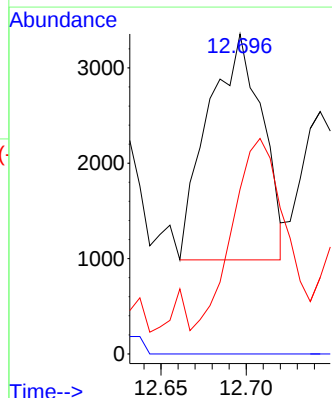
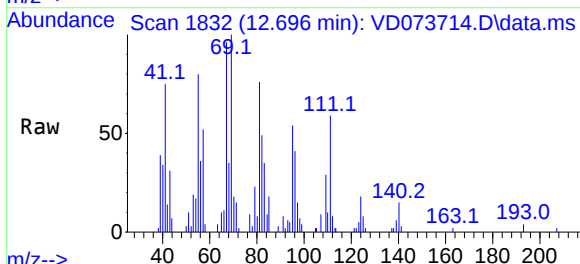
Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

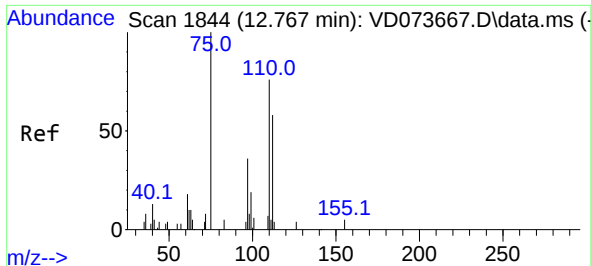
Tgt Ion:	43	Resp:	17381
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.6#
55	0.0	21.0	31.4#
61	0.0	20.3	30.5#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.607 ug/l
RT: 12.696 min Scan# 1832
Delta R.T. -0.024 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion:	83	Resp:	5221
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.7#
85	82.1	32.3	96.9

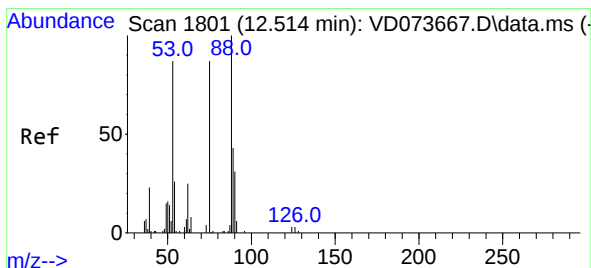
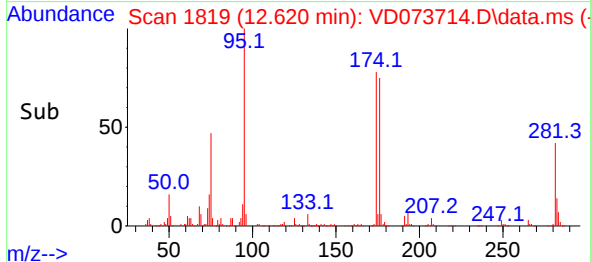
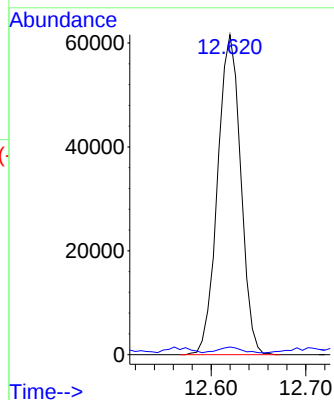
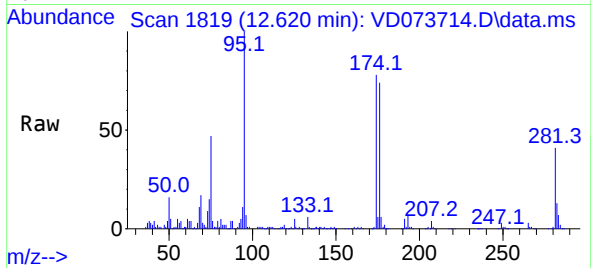




#76
1,2,3-Trichloropropane
Concen: 50.885 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.147 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Instrument :
MSVOA_D
ClientSampleId :
SP-EXC-2-1

Tgt Ion: 75 Resp: 104462
Ion Ratio Lower Upper
75 100
77 1.8 195.3 586.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 103.884 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073714.D
Acq: 25 Jun 2022 17:29

Tgt Ion: 75 Resp: 104462
Ion Ratio Lower Upper
75 100
53 0.6 77.0 115.6#
89 0.8 37.8 56.8#

