

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051322\
 Data File : VD073027.D
 Acq On : 14 May 2022 10:04
 Operator : VA/SY
 Sample : N2823-13
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SC-13

Quant Time: May 16 05:22:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050222S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 03 08:33:49 2022
 Response via : Initial Calibration

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

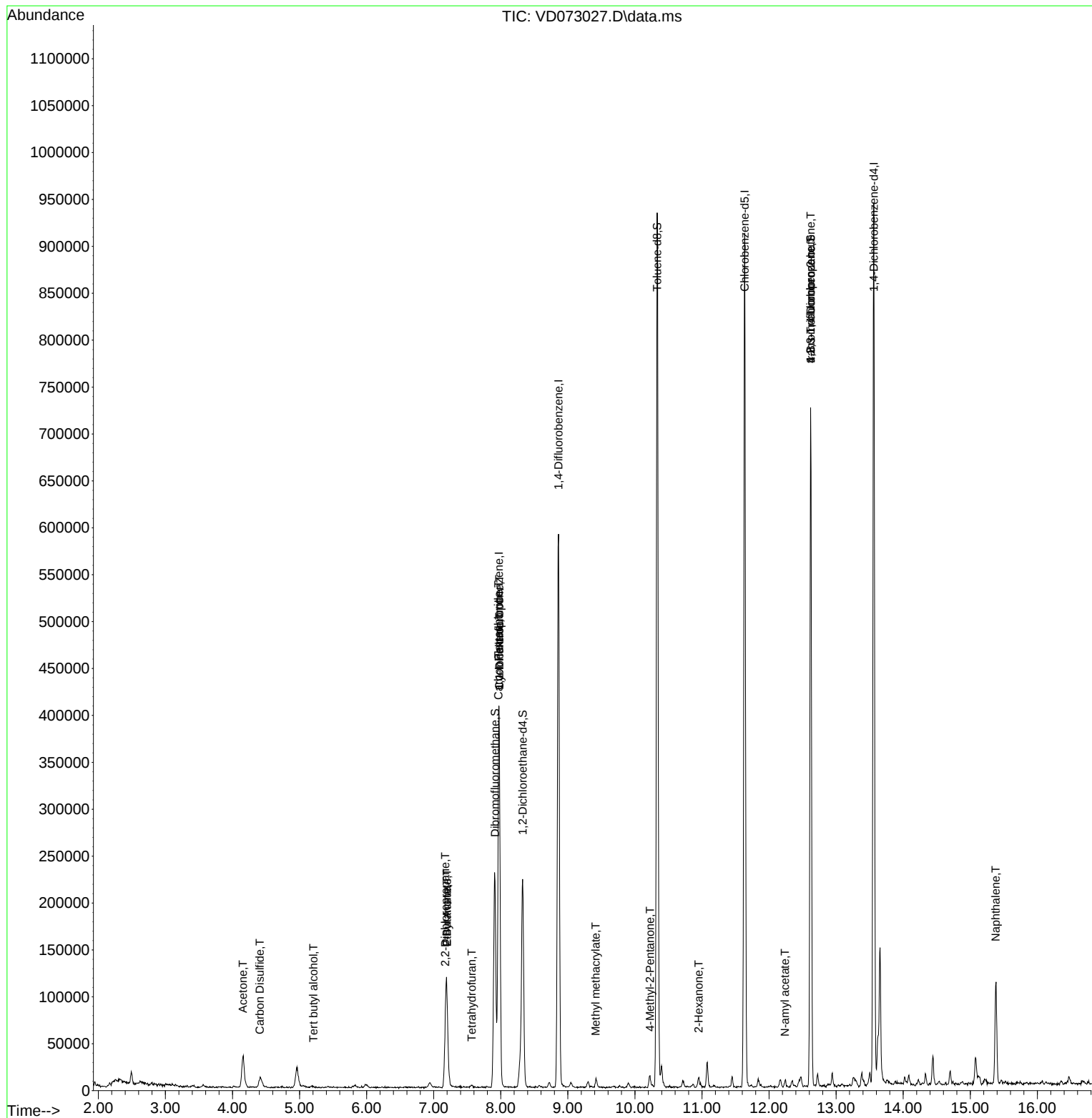
Internal Standards						
1) Pentafluorobenzene	7.973	168	289494	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	511793	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	521101	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	245328	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	171301	45.585	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.160%
35) Dibromofluoromethane	7.914	113	168417	46.856	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	93.720%
50) Toluene-d8	10.332	98	630528	48.903	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	97.800%
62) 4-Bromofluorobenzene	12.620	95	239278	49.771	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	99.540%
Target Compounds						
					Qvalue	
5) Bromomethane	2.785	94	839	Below Cal	#	58
11) Tert butyl alcohol	5.208	59	981	3.017	ug/l #	74
13) Acrolein	3.956	56	69	Below Cal	#	14
16) Acetone	4.156	43	57079	71.179	ug/l	99
17) Carbon Disulfide	4.409	76	16137	1.470	ug/l #	90
18) Methyl Acetate	4.761	43	103	Below Cal	#	55
20) Methylene Chloride	4.967	84	15382	Below Cal	#	74
25) 2-Butanone	7.197	43	15879	14.502	ug/l #	81
26) 2,2-Dichloropropane	7.173	77	7529	1.196	ug/l #	54
29) Tetrahydrofuran	7.567	42	1325	1.899	ug/l #	62
31) Cyclohexane	7.979	56	7262	1.105	ug/l #	1
36) 1,1-Dichloropropene	7.979	75	24753	4.235	ug/l #	52
37) Ethyl Acetate	7.197	43	15879	5.910	ug/l #	72
38) Carbon Tetrachloride	7.967	117	32051	5.283	ug/l #	16
48) Methyl methacrylate	9.414	41	2484	1.024	ug/l #	46
51) 4-Methyl-2-Pentanone	10.226	43	9251	3.590	ug/l	97
59) 2-Hexanone	10.949	43	10140	5.848	ug/l #	27
74) N-amyl acetate	12.238	43	5060	1.065	ug/l #	51
76) 1,2,3-Trichloropropane	12.620	75	122372	44.734	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	122372	102.869	ug/l #	7
95) Naphthalene	15.379	128	94162	10.867	ug/l	99

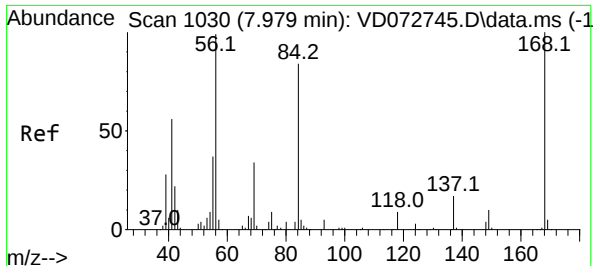
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

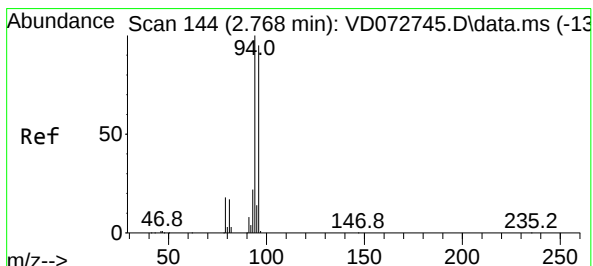
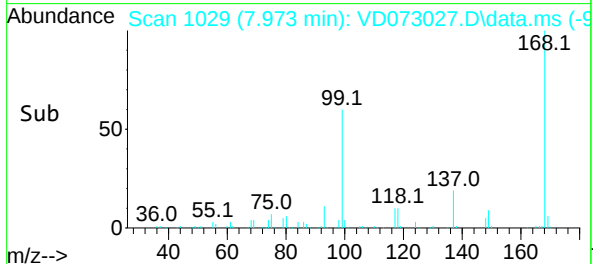
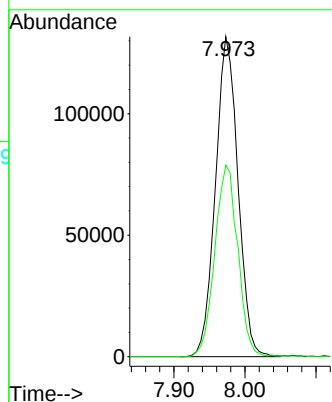
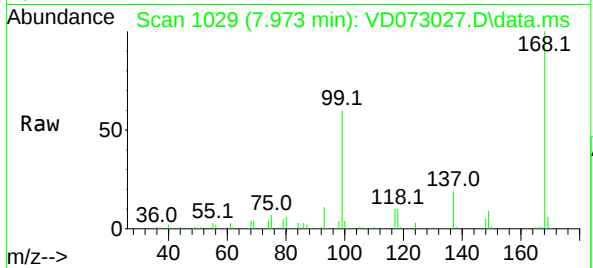




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

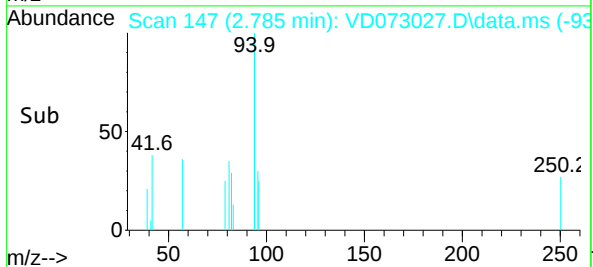
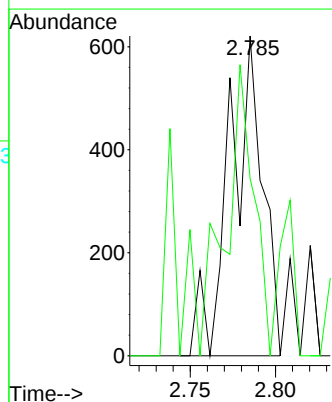
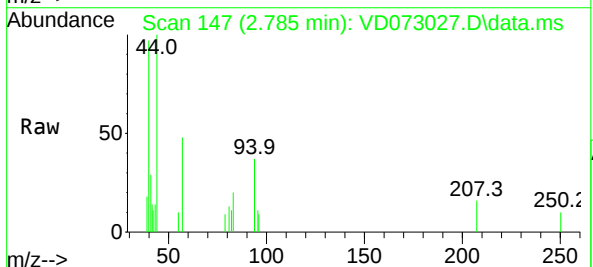
Instrument :
MSVOA_D
ClientSampleId :
SC-13

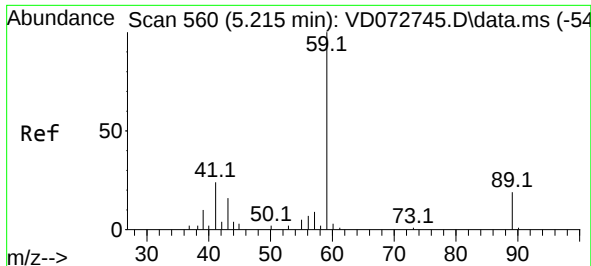
Tgt Ion:168 Resp: 289494
Ion Ratio Lower Upper
168 100
99 59.8 49.8 74.6



#5
Bromomethane
Concen: Below Cal
RT: 2.785 min Scan# 147
Delta R.T. 0.017 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 94 Resp: 839
Ion Ratio Lower Upper
94 100
96 55.4 77.6 116.4#





#11

Tert butyl alcohol

Concen: 3.017 ug/l

RT: 5.208 min Scan# 51

Delta R.T. -0.007 min

Lab File: VD073027.D

Acq: 14 May 2022 10:04

Instrument :

MSVOA_D

ClientSampleId :

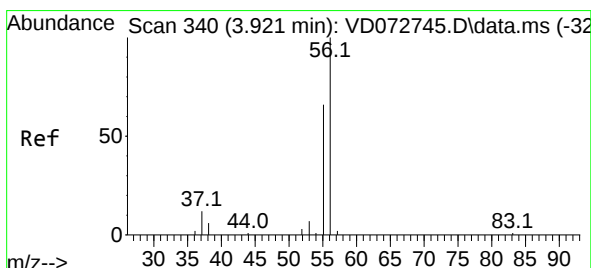
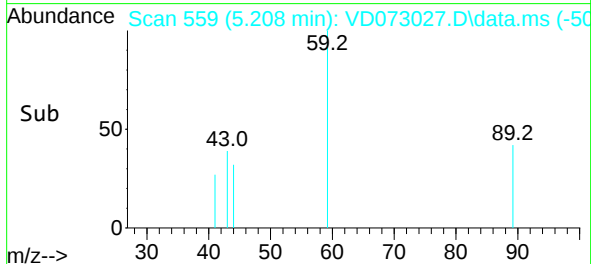
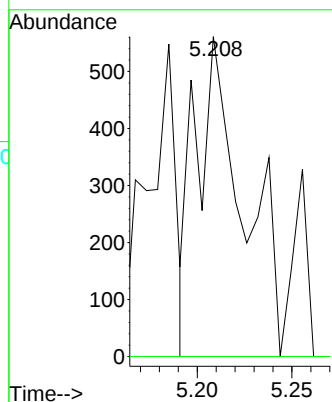
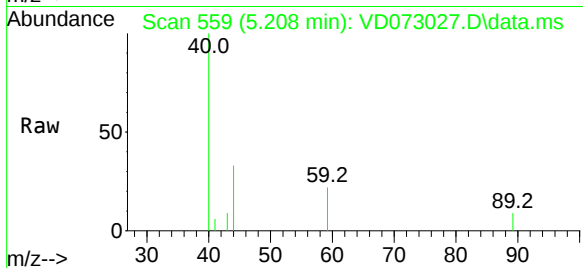
SC-13

Tgt Ion: 59 Resp: 981

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#13

Acrolein

Concen: Below Cal

RT: 3.956 min Scan# 346

Delta R.T. 0.035 min

Lab File: VD073027.D

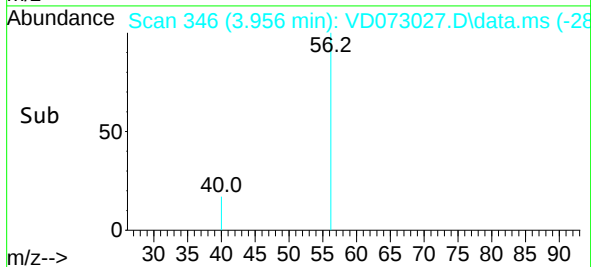
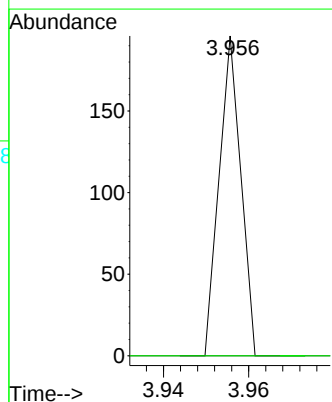
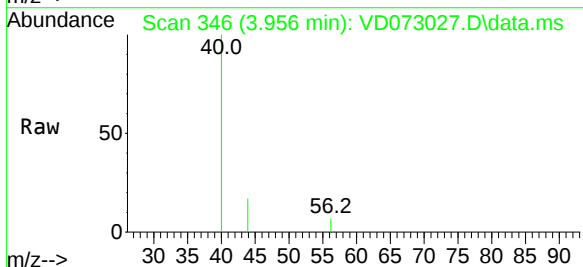
Acq: 14 May 2022 10:04

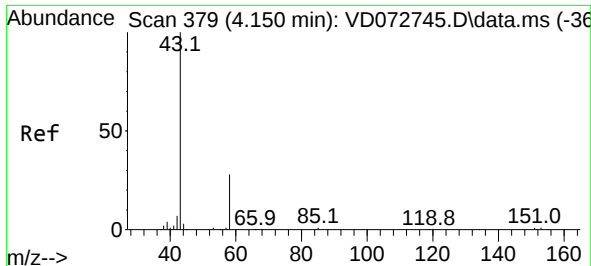
Tgt Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 0.0 57.1 85.7#

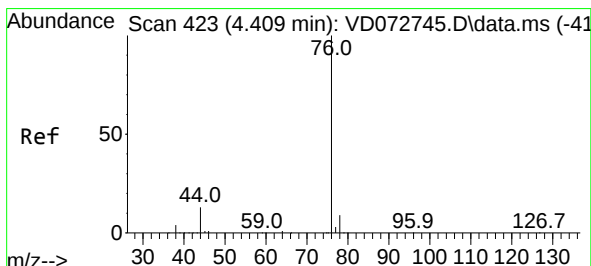
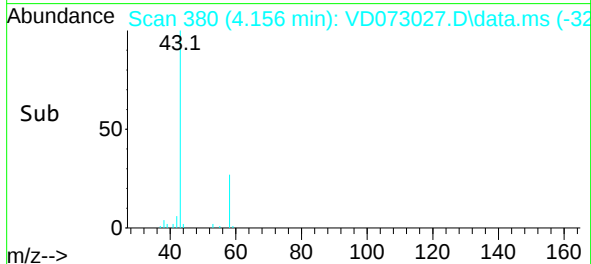
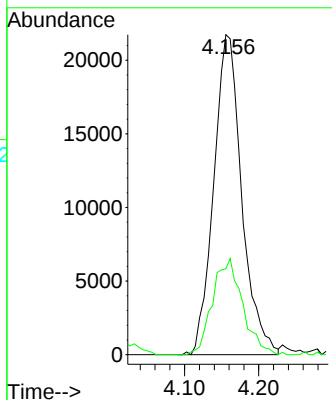
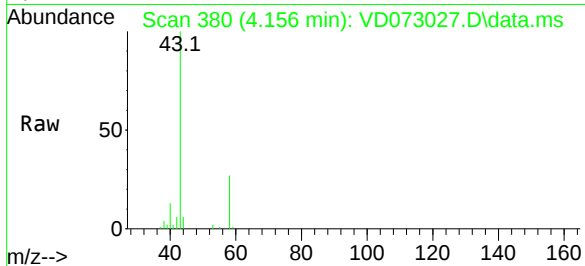




#16
Acetone
Concen: 71.179 ug/l
RT: 4.156 min Scan# 379
Delta R.T. 0.006 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

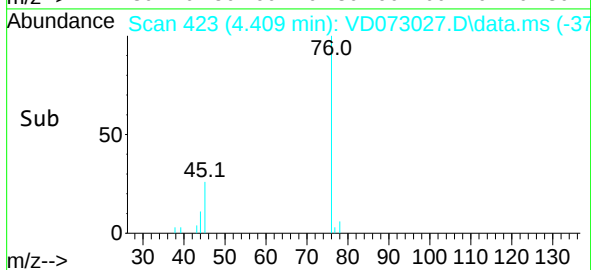
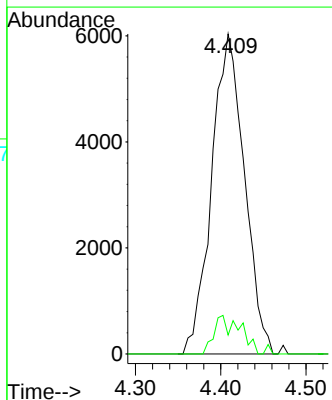
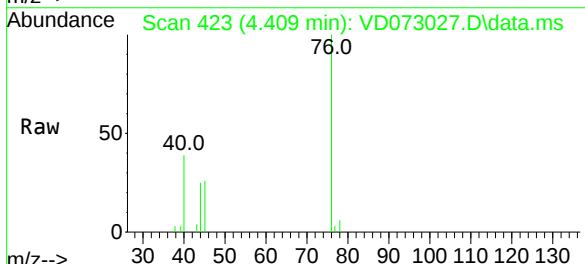
Instrument :
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SC-13

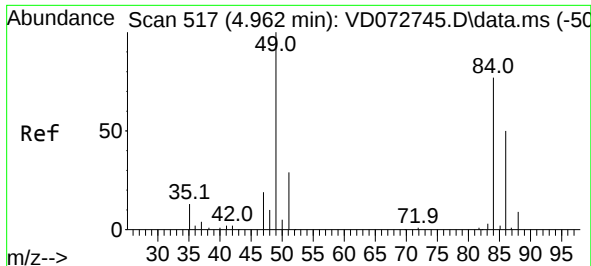
Tgt Ion: 43 Resp: 57079
Ion Ratio Lower Upper
43 100
58 26.8 22.1 33.1



#17
Carbon Disulfide
Concen: 1.470 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 76 Resp: 16137
Ion Ratio Lower Upper
76 100
78 5.9 7.5 11.3#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.967 min Scan# 51

Delta R.T. 0.005 min

Lab File: VD073027.D

Acq: 14 May 2022 10:04

Instrument :

MSVOA_D

ClientSampleId :

SC-13

Tgt Ion: 84 Resp: 15382

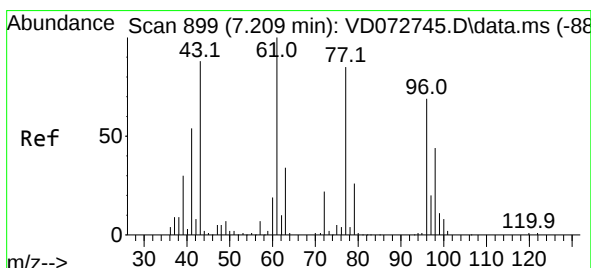
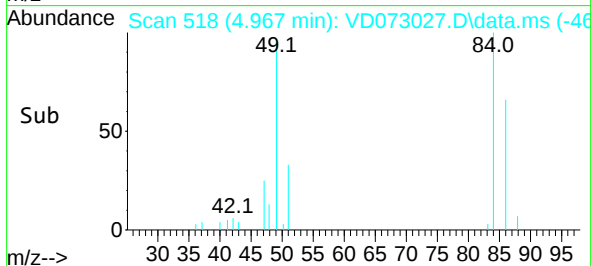
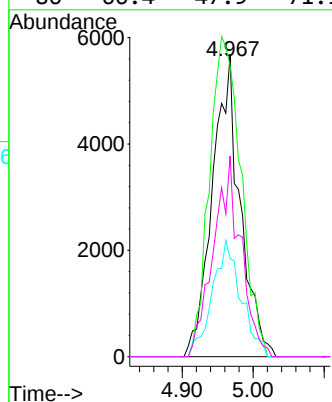
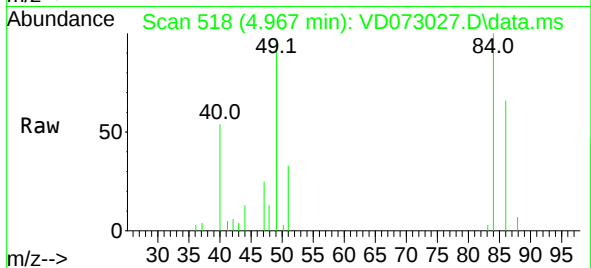
Ion Ratio Lower Upper

84 100

49 96.3 112.8 169.2#

51 32.6 32.6 48.8

86 66.4 47.9 71.9



#25

2-Butanone

Concen: 14.502 ug/l

RT: 7.197 min Scan# 897

Delta R.T. -0.012 min

Lab File: VD073027.D

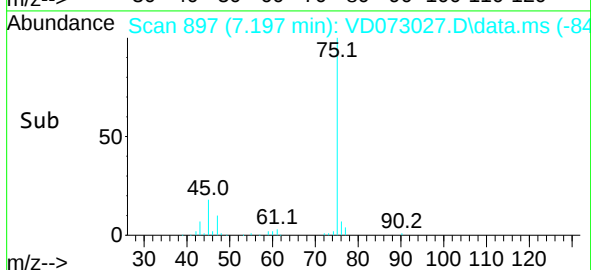
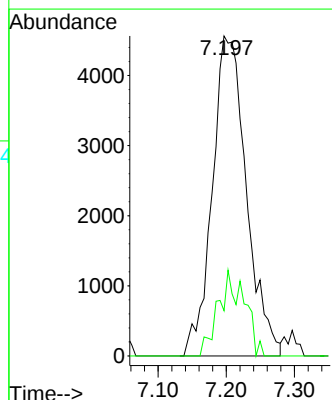
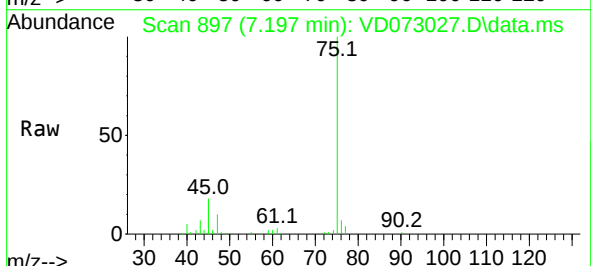
Acq: 14 May 2022 10:04

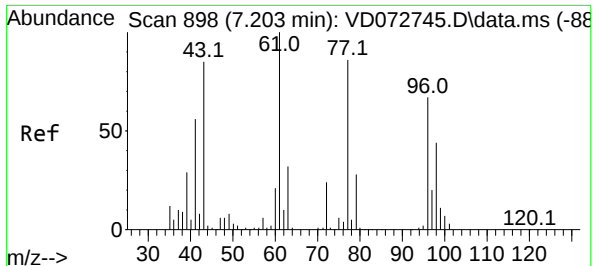
Tgt Ion: 43 Resp: 15879

Ion Ratio Lower Upper

43 100

72 14.2 18.6 27.8#

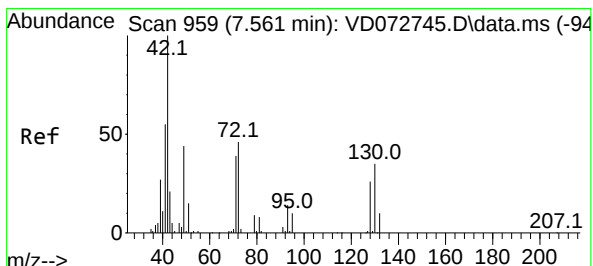
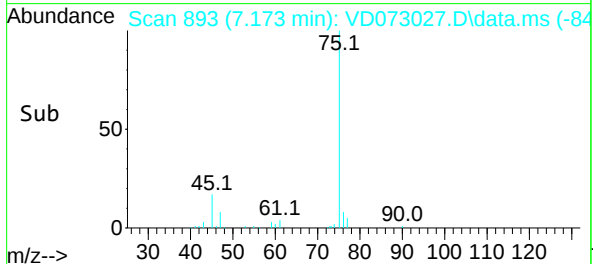
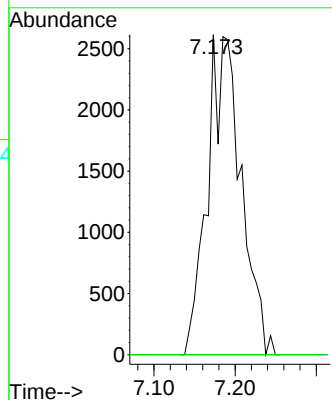
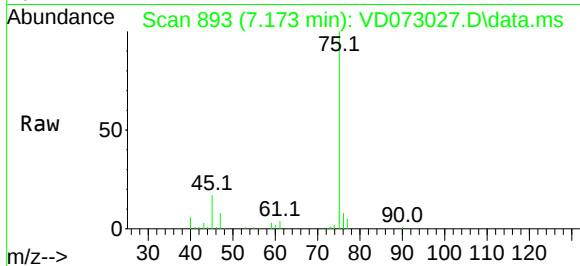




#26
2,2-Dichloropropane
Concen: 1.196 ug/l
RT: 7.173 min Scan# 89
Delta R.T. -0.030 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

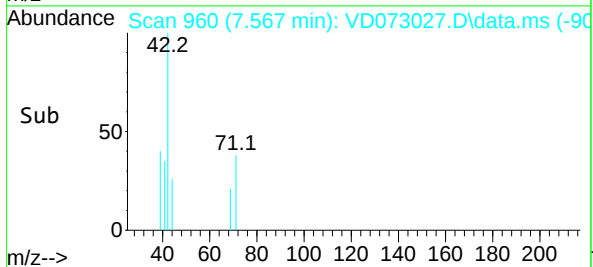
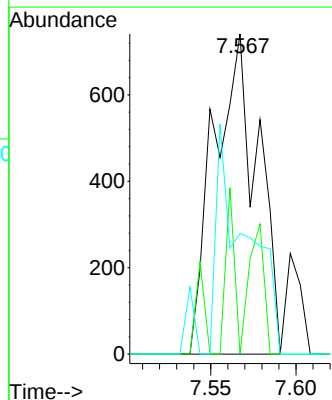
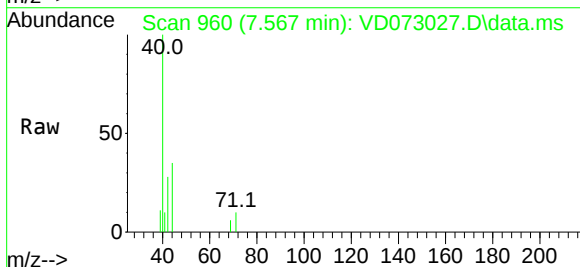
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ClientSampleId :
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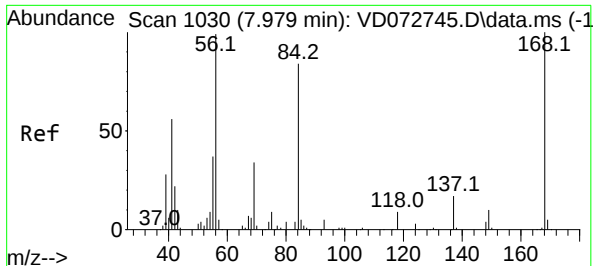
Tgt Ion: 77 Resp: 7529
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.4#



#29
Tetrahydrofuran
Concen: 1.899 ug/l
RT: 7.567 min Scan# 960
Delta R.T. 0.006 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 42 Resp: 1325
Ion Ratio Lower Upper
42 100
72 10.3 30.7 46.1#
71 52.5 28.6 43.0#

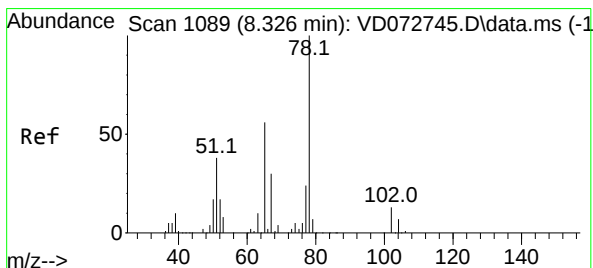
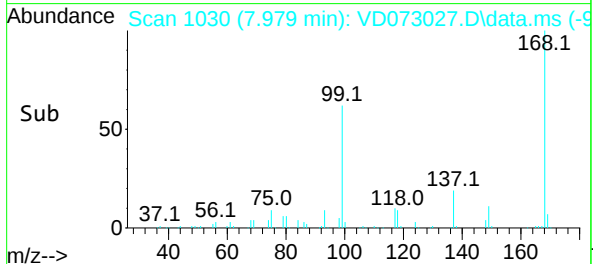
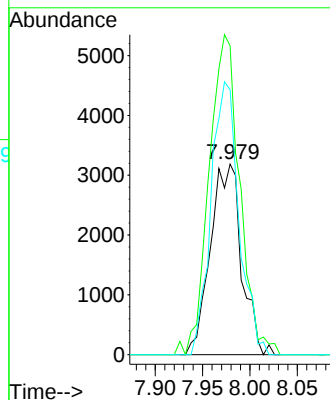
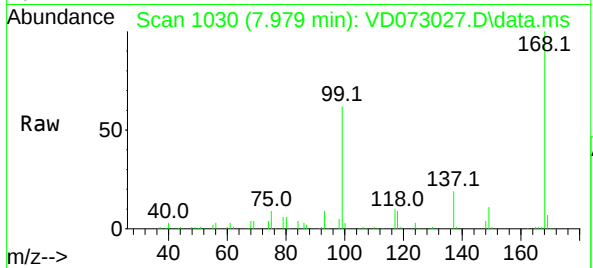




#31
Cyclohexane
Concen: 1.105 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

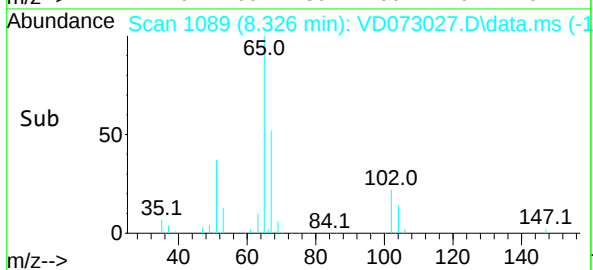
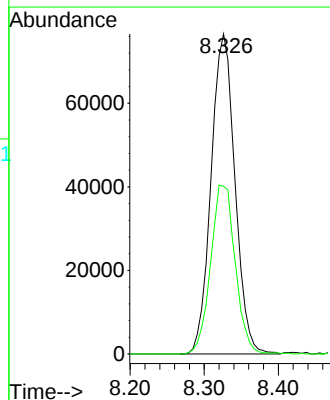
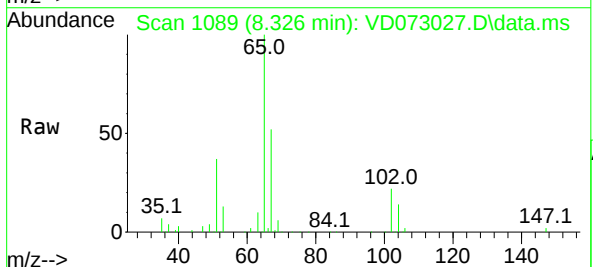
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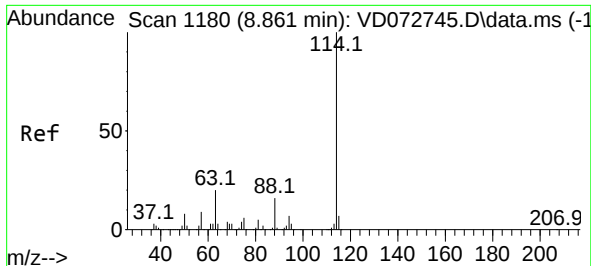
Tgt Ion: 56 Resp: 7262
Ion Ratio Lower Upper
56 100
69 162.1 25.4 38.2#
84 139.1 63.0 94.4#



#33
1,2-Dichloroethane-d4
Concen: 45.585 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 65 Resp: 171301
Ion Ratio Lower Upper
65 100
67 54.4 0.0 101.4

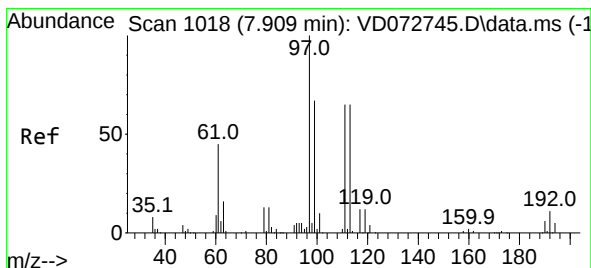
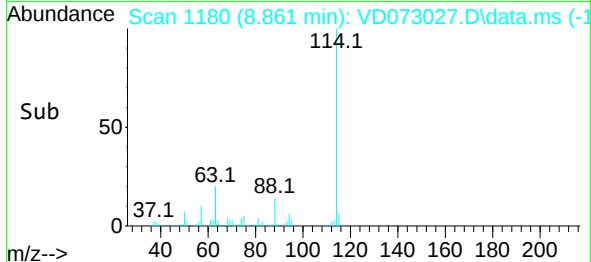
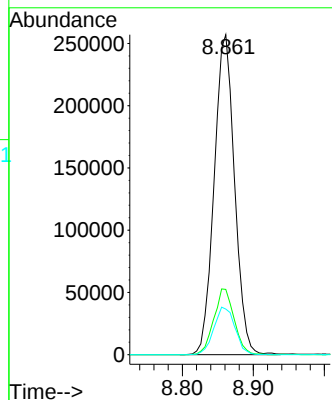
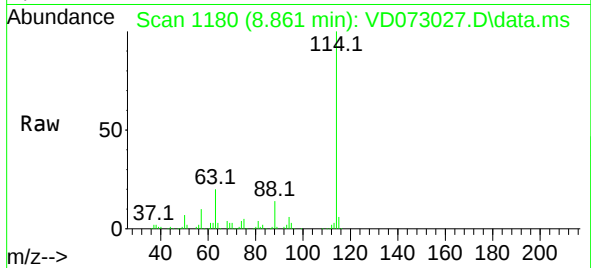




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

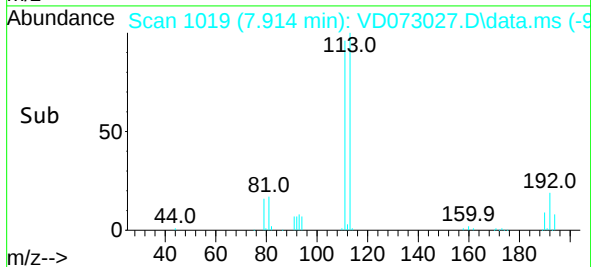
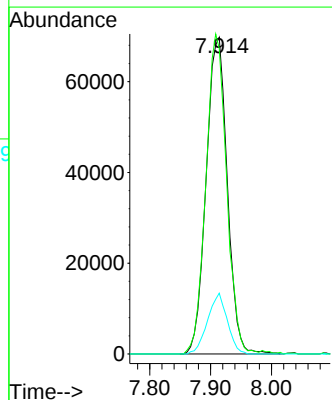
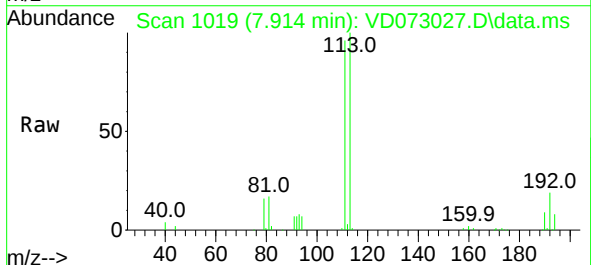
Instrument :
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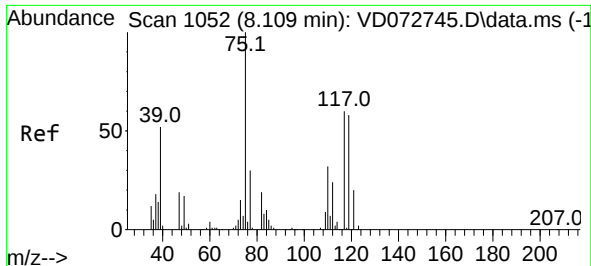
Tgt Ion:114 Resp: 511793
Ion Ratio Lower Upper
114 100
63 20.4 0.0 46.6
88 14.3 0.0 33.2



#35
Dibromofluoromethane
Concen: 46.856 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.005 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion:113 Resp: 168417
Ion Ratio Lower Upper
113 100
111 98.9 83.8 125.6
192 17.9 14.6 21.8

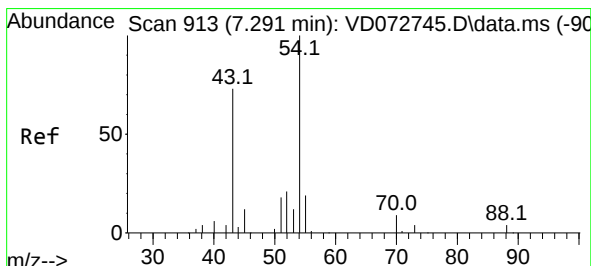
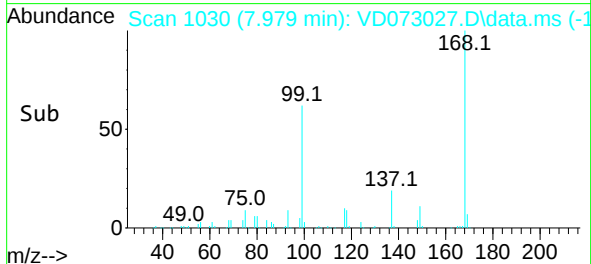
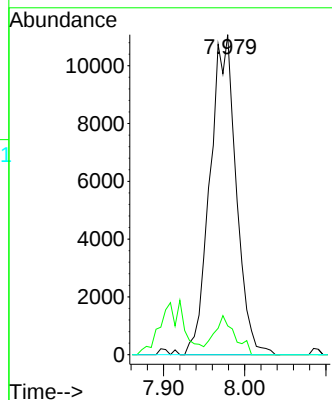
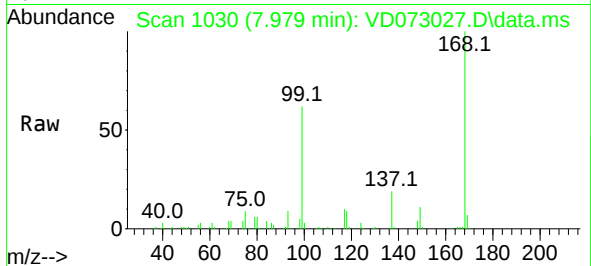




#36
1,1-Dichloropropene
Concen: 4.235 ug/l
RT: 7.979 min Scan# 1052
Delta R.T. -0.130 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

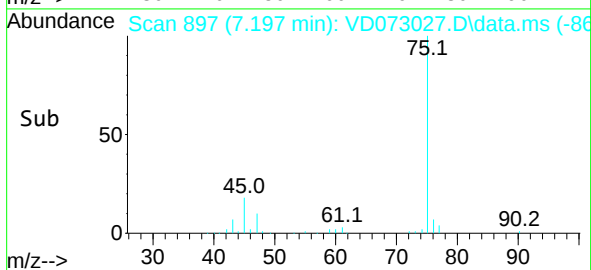
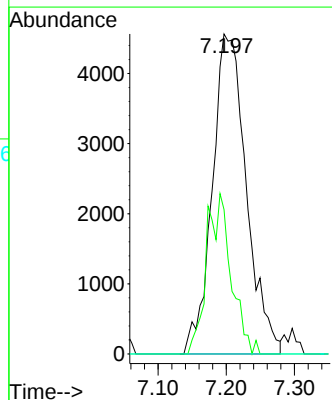
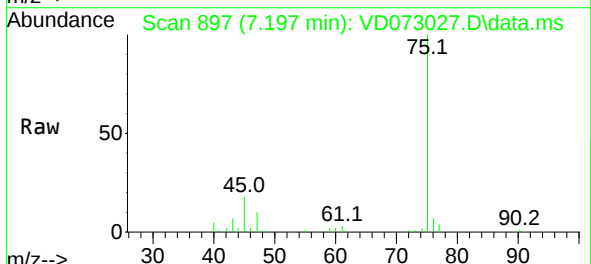
Instrument :
MSVOA_D
ClientSampleId :
SC-13

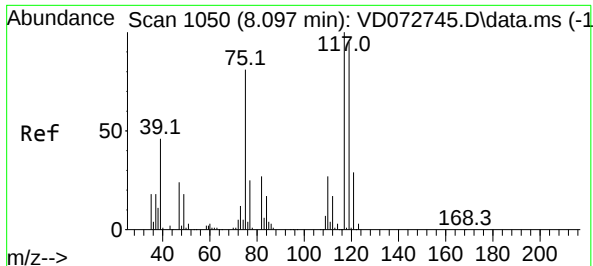
Tgt Ion: 75 Resp: 24753
Ion Ratio Lower Upper
75 100
110 9.5 16.4 49.1#
77 0.0 24.2 36.2#



#37
Ethyl Acetate
Concen: 5.910 ug/l
RT: 7.197 min Scan# 897
Delta R.T. -0.094 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 43 Resp: 15879
Ion Ratio Lower Upper
43 100
61 0.0 9.8 14.8#
70 0.0 6.9 10.3#

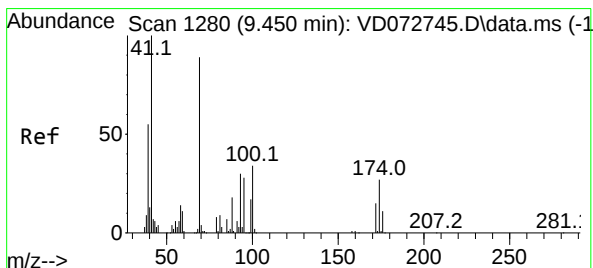
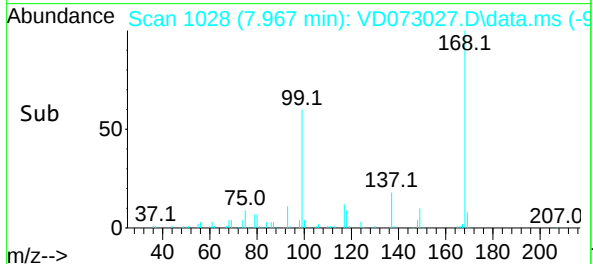
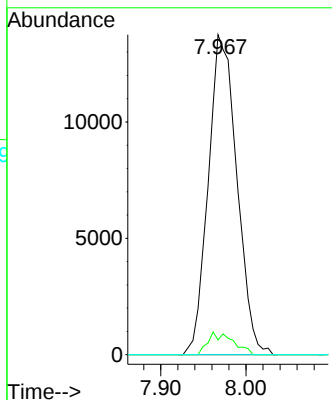
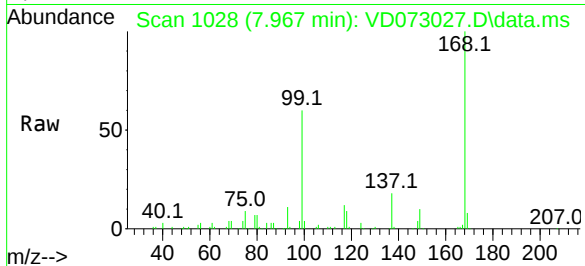




#38
Carbon Tetrachloride
Concen: 5.283 ug/l
RT: 7.967 min Scan# 1050
Delta R.T. -0.130 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

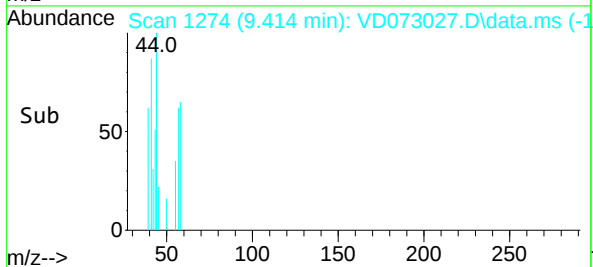
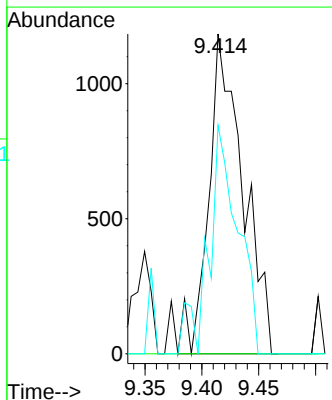
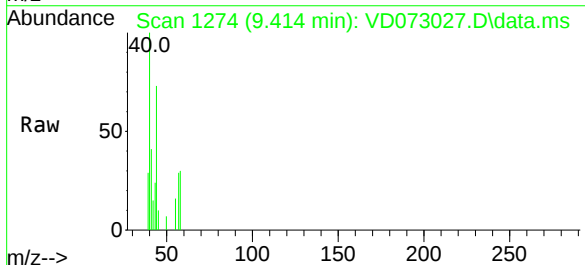
Instrument :
MSVOA_D
ClientSampleId :
SC-13

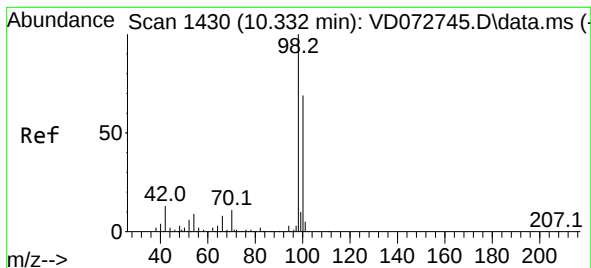
Tgt Ion:117 Resp: 32051
Ion Ratio Lower Upper
117 100
119 4.6 75.8 113.6#
121 0.0 24.5 36.7#



#48
Methyl methacrylate
Concen: 1.024 ug/l
RT: 9.414 min Scan# 1274
Delta R.T. -0.036 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 41 Resp: 2484
Ion Ratio Lower Upper
41 100
69 0.0 56.7 85.1#
39 61.6 42.7 64.1

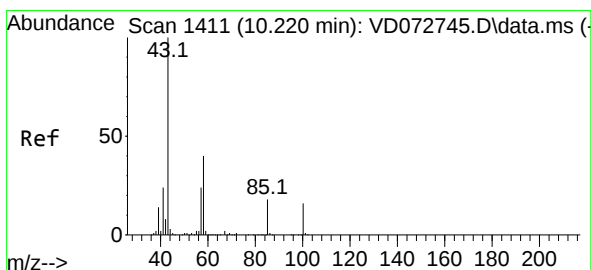
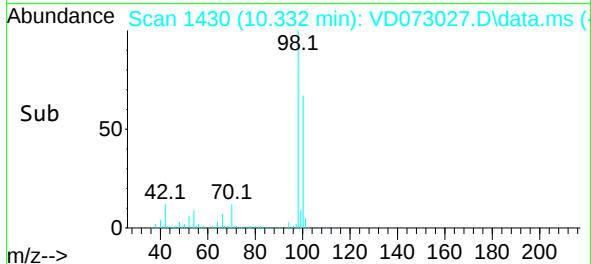
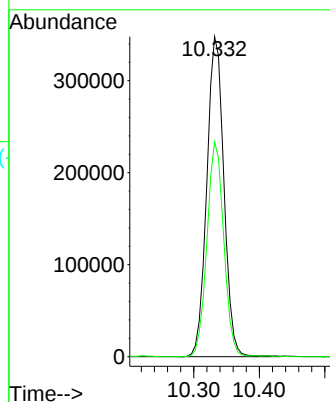
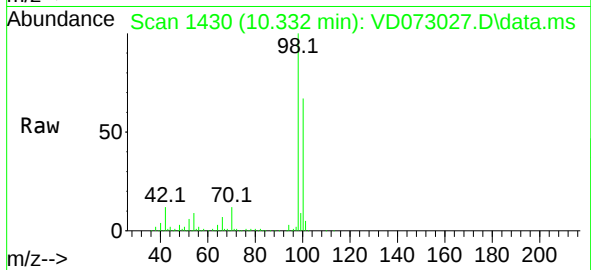




#50
Toluene-d8
Concen: 48.903 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

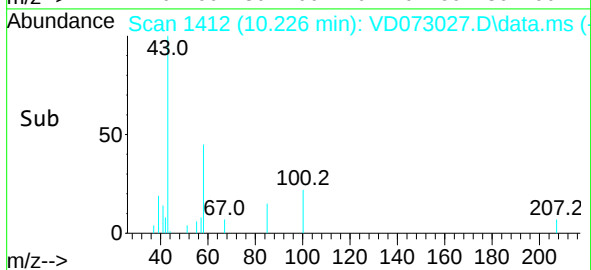
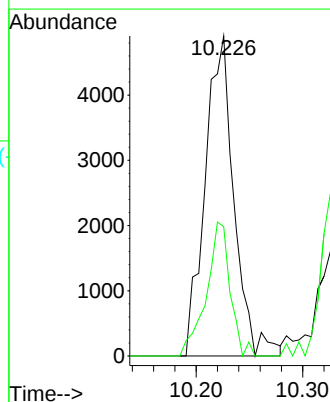
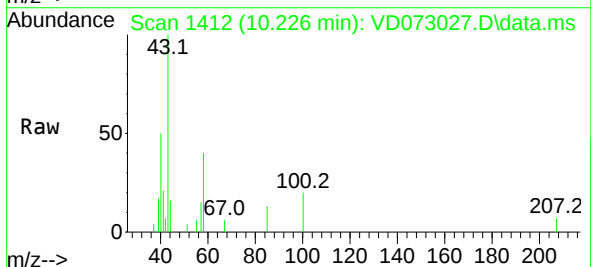
Instrument :
MSVOA_D
ClientSampleId :
SC-13

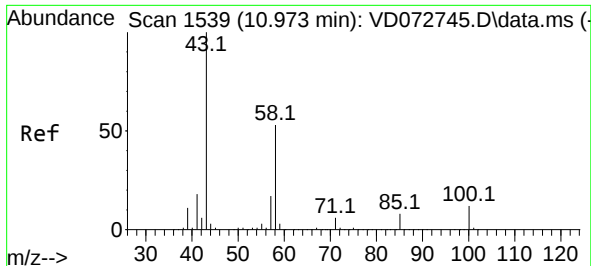
Tgt Ion: 98 Resp: 630528
Ion Ratio Lower Upper
98 100
100 66.2 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 3.590 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. 0.006 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 43 Resp: 9251
Ion Ratio Lower Upper
43 100
58 34.3 28.6 43.0

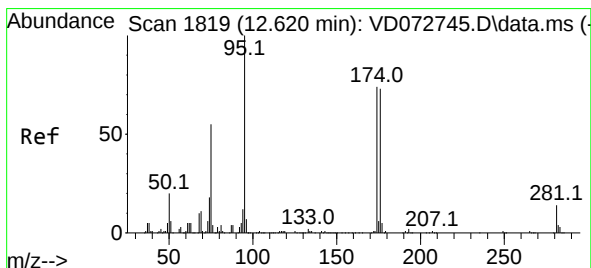
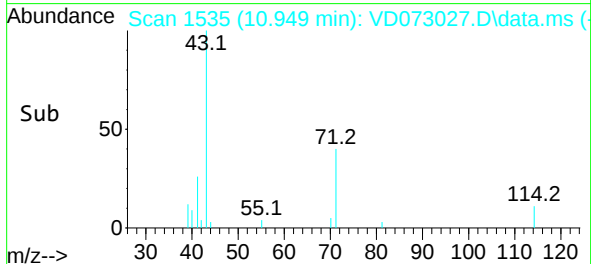
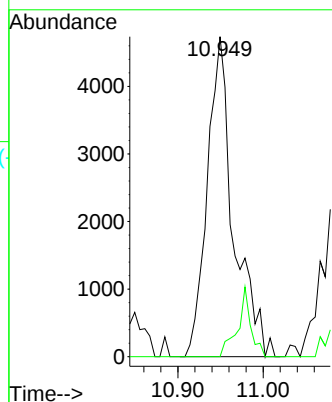
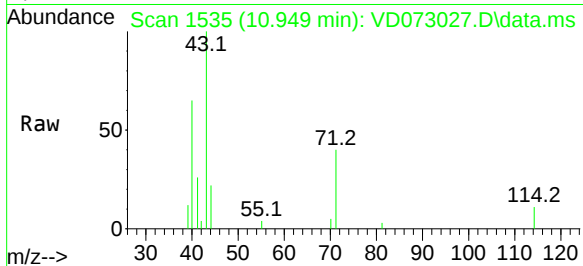




#59
2-Hexanone
Concen: 5.848 ug/l
RT: 10.949 min Scan# 11
Delta R.T. -0.024 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

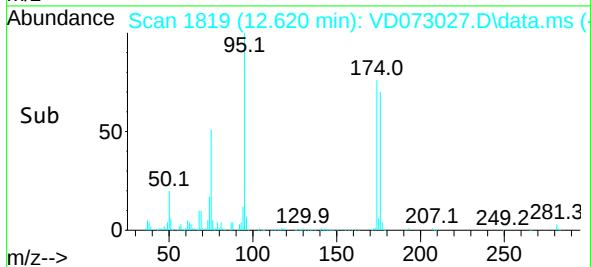
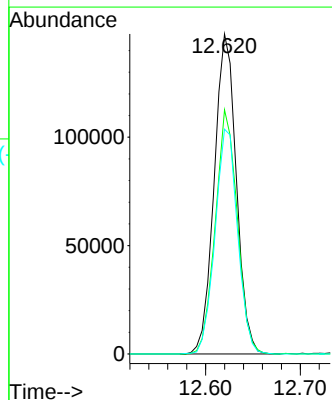
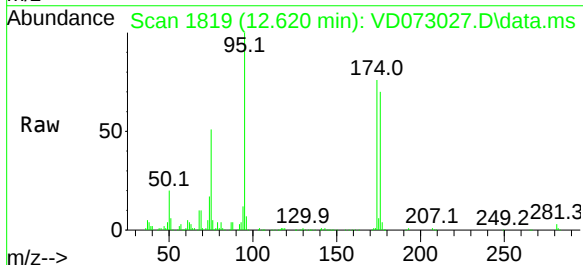
Instrument :
MSVOA_D
ClientSampleId :
SC-13

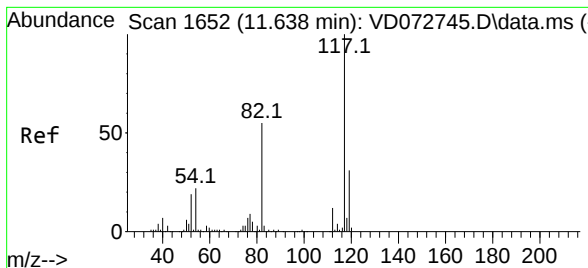
Tgt Ion: 43 Resp: 10140
Ion Ratio Lower Upper
43 100
58 0.0 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 49.771 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 95 Resp: 239278
Ion Ratio Lower Upper
95 100
174 75.9 0.0 152.8
176 71.7 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.638 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD073027.D

Acq: 14 May 2022 10:04

Instrument :

MSVOA_D

ClientSampleId :

SC-13

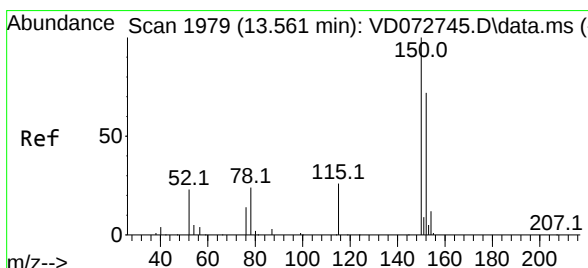
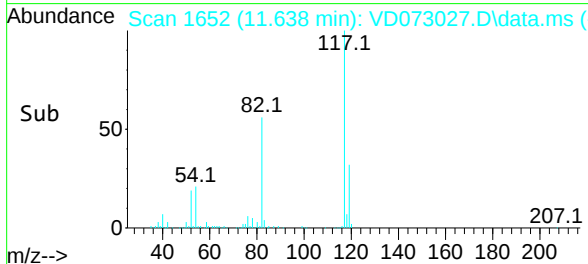
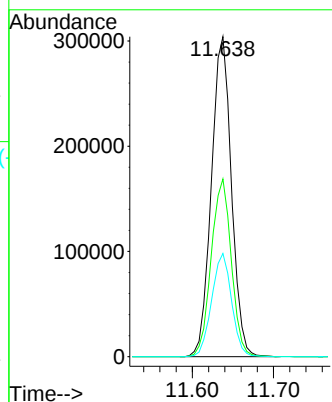
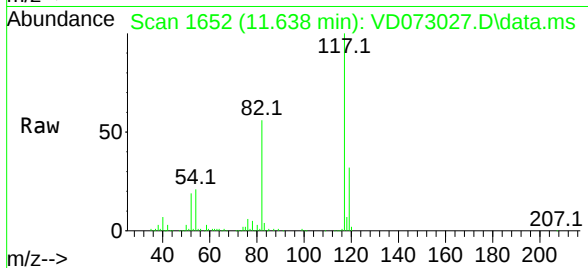
Tgt Ion:117 Resp: 521101

Ion Ratio Lower Upper

117 100

82 55.5 45.3 67.9

119 32.3 26.6 40.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. -0.000 min

Lab File: VD073027.D

Acq: 14 May 2022 10:04

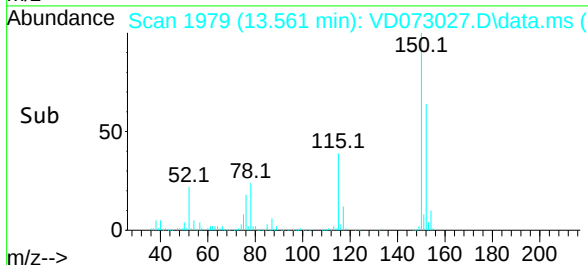
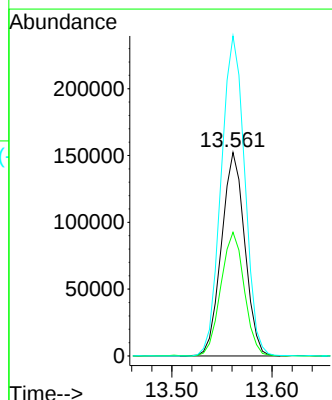
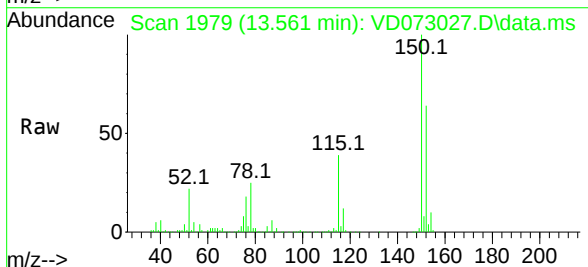
Tgt Ion:152 Resp: 245328

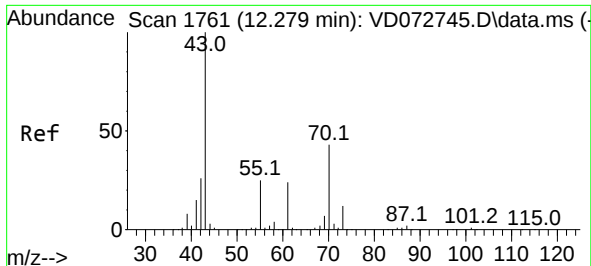
Ion Ratio Lower Upper

152 100

115 61.2 31.3 93.8

150 159.6 0.0 348.6

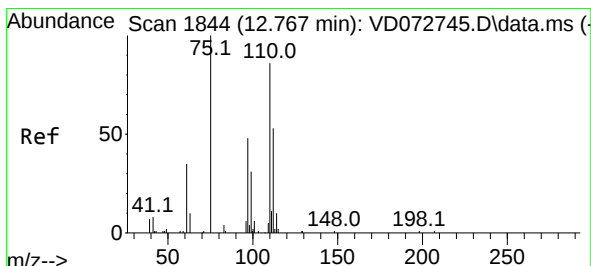
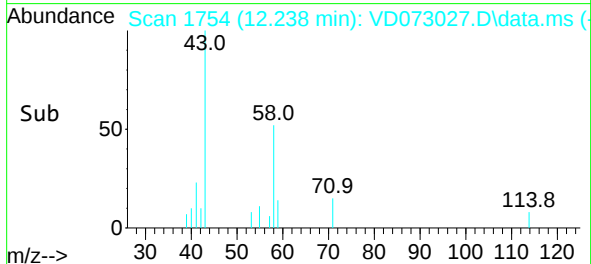
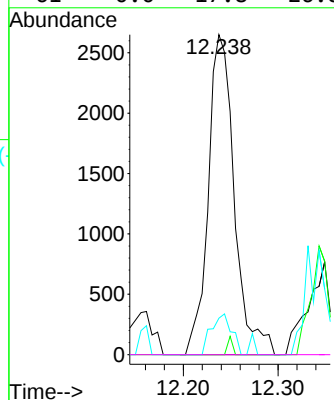
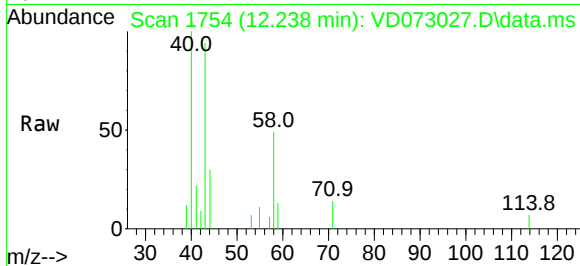




#74
N-amy1 acetate
Concen: 1.065 ug/l
RT: 12.238 min Scan# 11
Delta R.T. -0.041 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

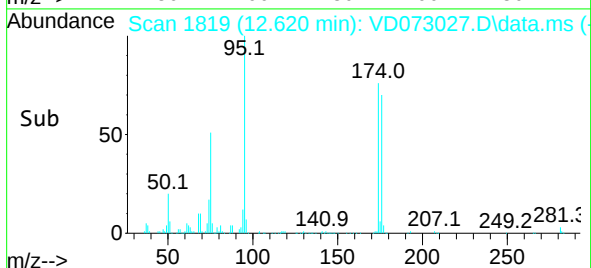
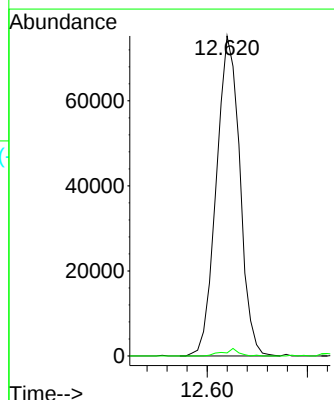
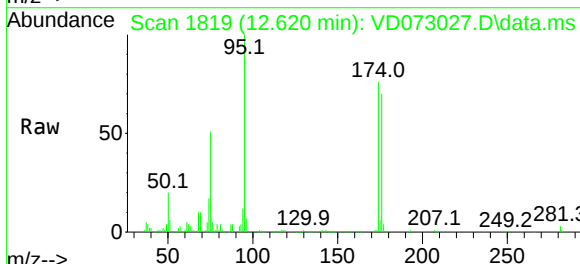
Instrument :
MSVOA_D
ClientSampleId :
SC-13

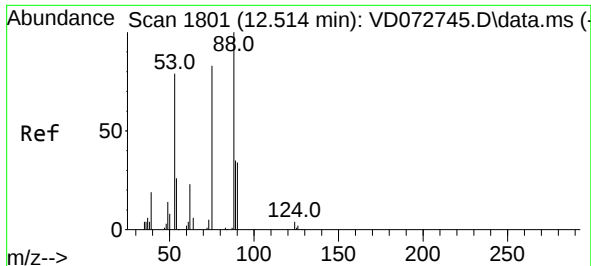
Tgt Ion: 43	Resp: 5060
Ion Ratio	Lower Upper
43 100	
70 1.1	31.3 46.9#
55 10.0	20.0 30.0#
61 0.0	17.8 26.8#



#76
1,2,3-Trichloropropane
Concen: 44.734 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.147 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 75	Resp: 122372
Ion Ratio	Lower Upper
75 100	
77 1.6	0.0 0.0#

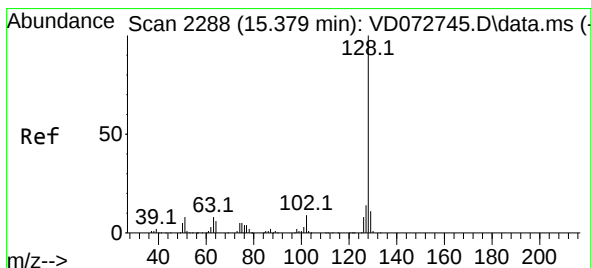
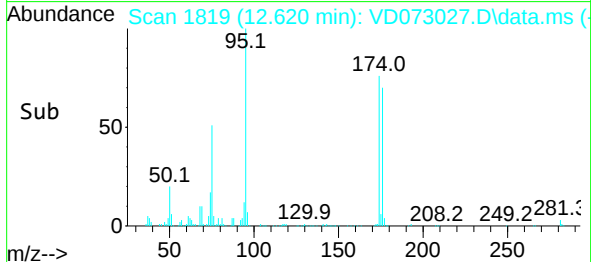
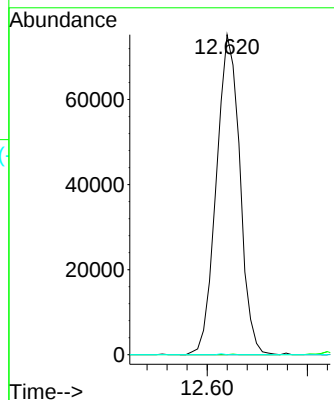
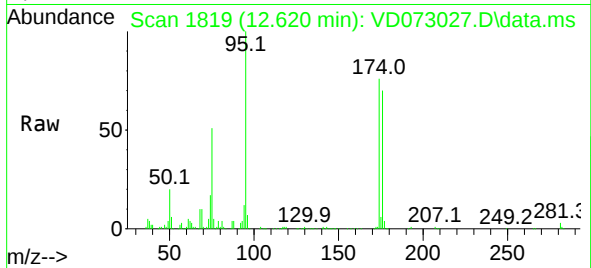




#81
trans-1,4-Dichloro-2-butene
Concen: 102.869 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Instrument :
MSVOA_D
ClientSampleId :
SC-13

Tgt Ion: 75 Resp: 122372
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 0.1 33.9 50.9#



#95
Naphthalene
Concen: 10.867 ug/l
RT: 15.379 min Scan# 2288
Delta R.T. -0.000 min
Lab File: VD073027.D
Acq: 14 May 2022 10:04

Tgt Ion: 128 Resp: 94162
Ion Ratio Lower Upper
128 100
127 13.6 10.3 15.5
129 10.9 8.4 12.6

