

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121623\
 Data File : VD077932.D
 Acq On : 16 Dec 2023 14:28
 Operator : RP/MD
 Sample : 05832-01
 Misc : 5.02G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 18 01:58:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 14:48:10 2023
 Response via : Initial Calibration

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

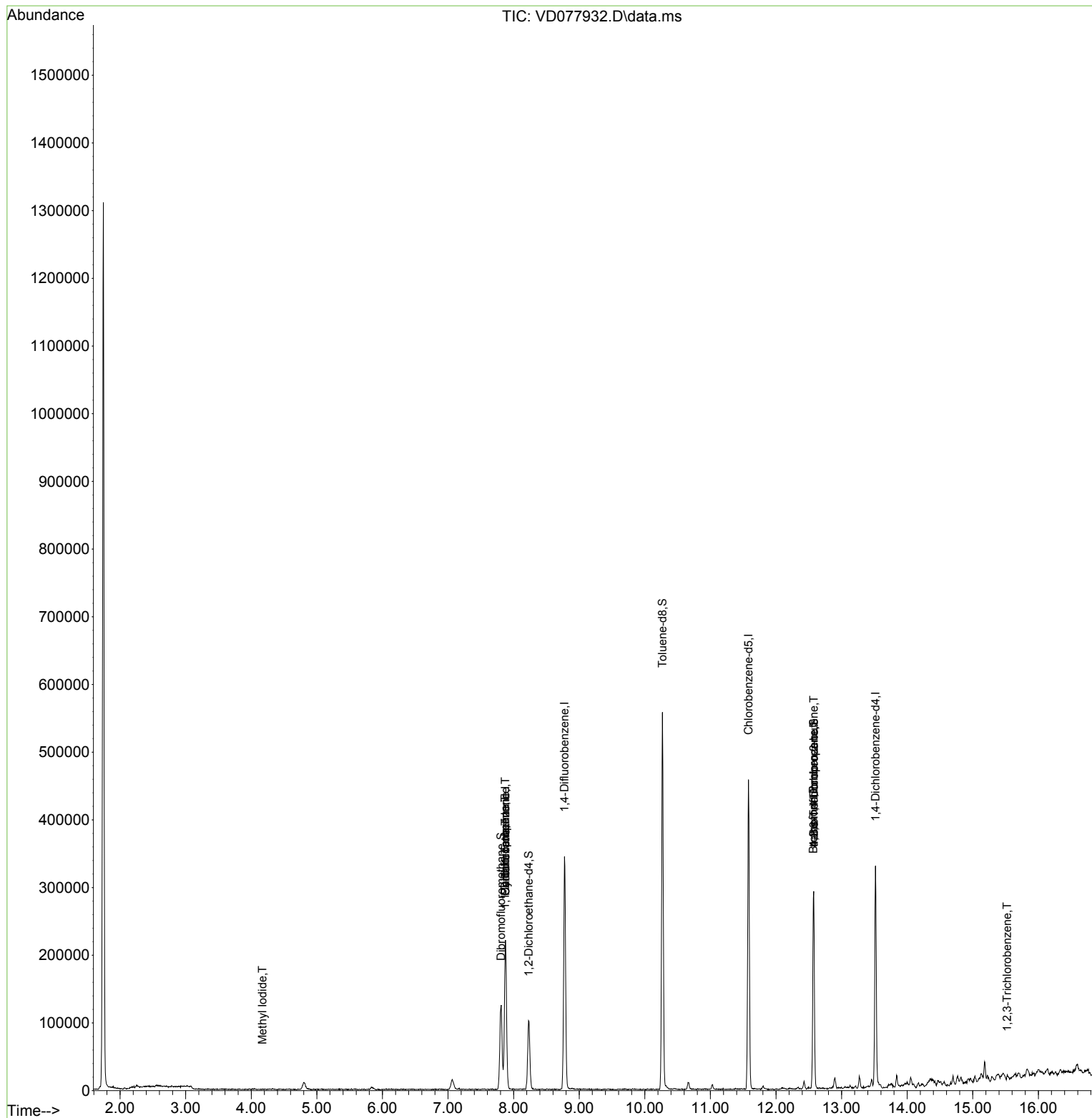
Internal Standards						
1) Pentafluorobenzene	7.875	168	165815	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	305223	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	266287	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	83395	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	79482	40.679	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.360%
35) Dibromofluoromethane	7.811	113	91296	42.702	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	85.400%
50) Toluene-d8	10.269	98	372377	43.487	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.980%
62) 4-Bromofluorobenzene	12.575	95	88960	34.749	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	69.500%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.170	142	91	6.786	ug/l #	46
11) Tert butyl alcohol	5.052	59	209	Below Cal	#	73
16) Acetone	4.034	43	1110	Below Cal	#	32
20) Methylene Chloride	4.805	84	7793	Below Cal		94
25) 2-Butanone	7.081	43	255	Below Cal	#	52
31) Cyclohexane	7.875	56	3835	1.103	ug/l #	1
36) 1,1-Dichloropropene	7.869	75	14275	4.174	ug/l #	46
38) Carbon Tetrachloride	7.875	117	17298	5.074	ug/l #	13
65) Chlorobenzene	11.604	112	292	Below Cal	#	43
71) Bromoform	12.569	173	1206	1.042	ug/l #	1
76) 1,2,3-Trichloropropane	12.575	75	47165	65.119	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	47165	131.936	ug/l #	17
88) 1,4-Dichlorobenzene	13.540	146	349	Below Cal	#	26
96) 1,2,3-Trichlorobenzene	15.522	180	1489	1.023	ug/l #	29

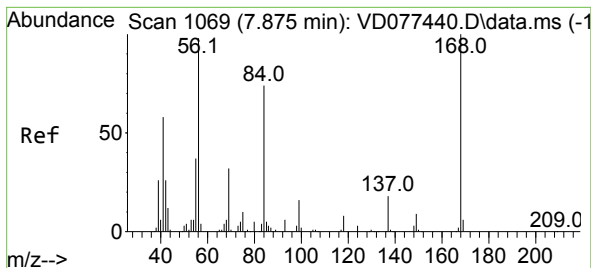
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 14 14:48:10 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD077932.D

Acq: 16 Dec 2023 14:28

Instrument :

MSVOA_D

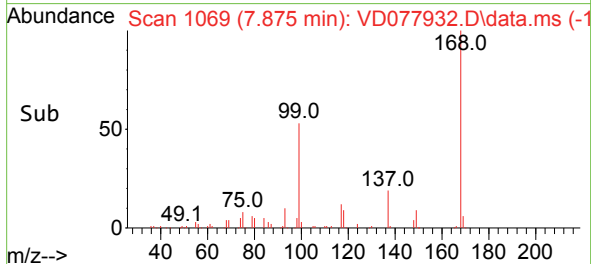
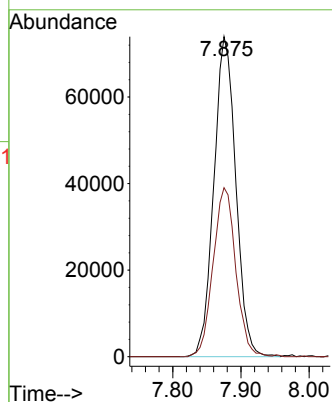
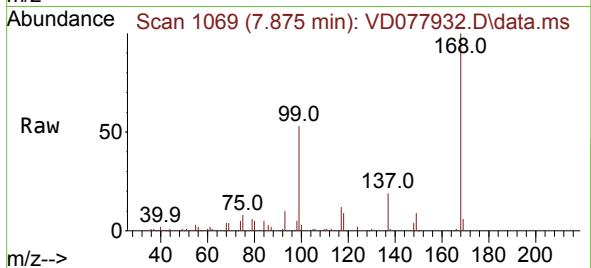
ClientSampleId :

Tgt Ion:168 Resp: 165815

Ion Ratio Lower Upper

168 100

99 52.8 36.7 55.1



#10

Methyl Iodide

Concen: 6.786 ug/l

RT: 4.170 min Scan# 439

Delta R.T. 0.001 min

Lab File: VD077932.D

Acq: 16 Dec 2023 14:28

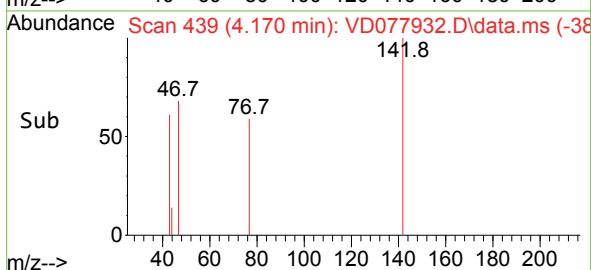
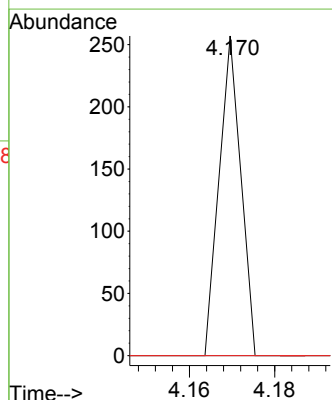
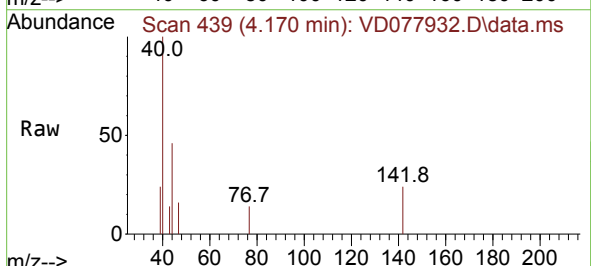
Tgt Ion:142 Resp: 91

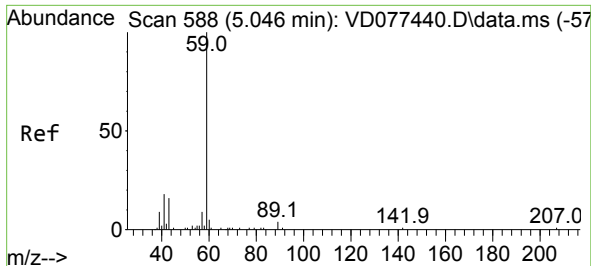
Ion Ratio Lower Upper

142 100

127 0.0 29.4 44.0#

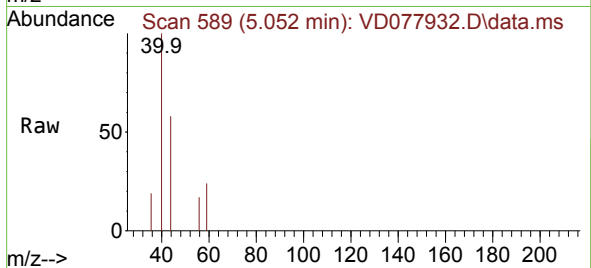
141 0.0 11.1 16.7#



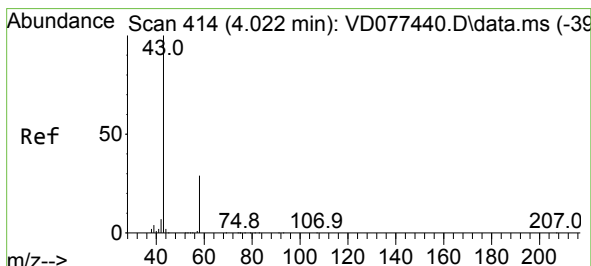
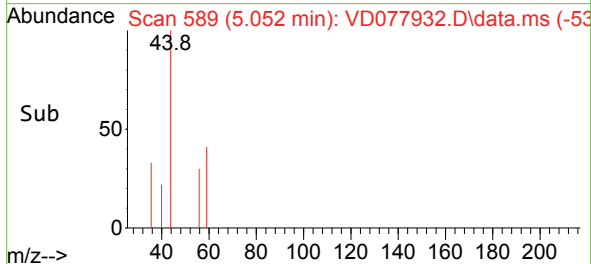
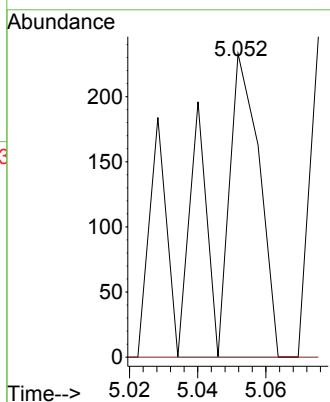


#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.052 min Scan# 51
Delta R.T. 0.006 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Instrument :
MSVOA_D
ClientSampleId :

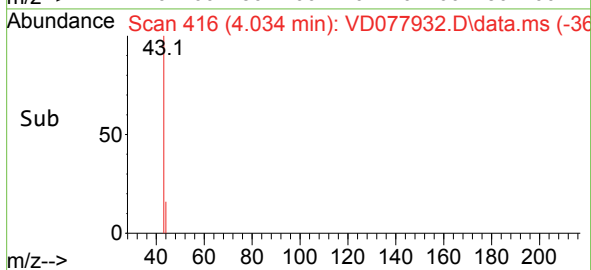
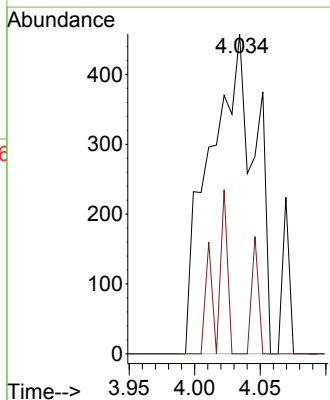
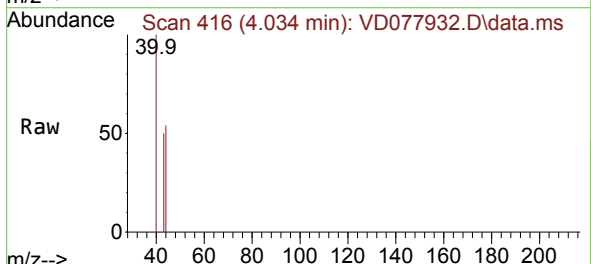


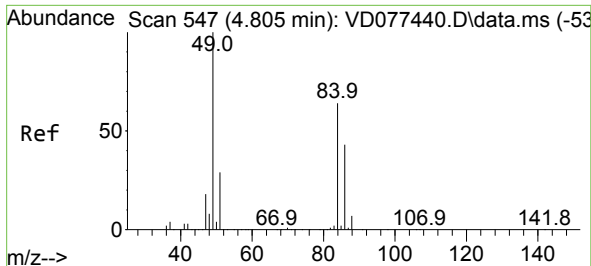
Tgt Ion: 59 Resp: 209
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: Below Cal
RT: 4.034 min Scan# 416
Delta R.T. 0.012 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

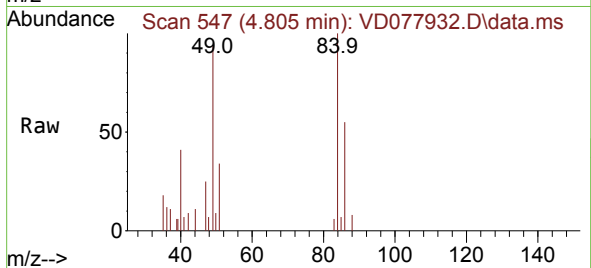
Tgt Ion: 43 Resp: 1110
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



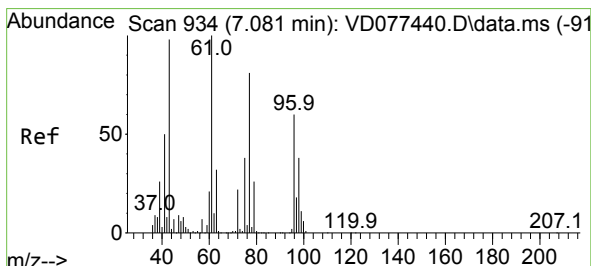
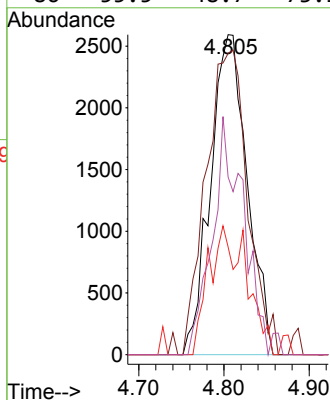
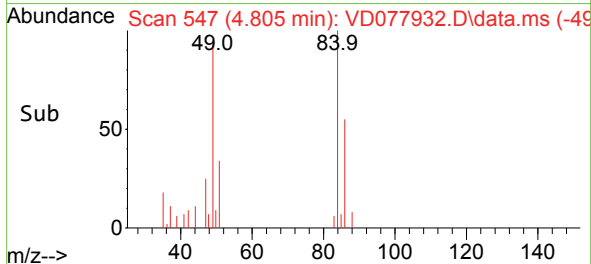


#20
Methylene Chloride
Concen: Below Cal
RT: 4.805 min Scan# 547
Delta R.T. -0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Instrument :
MSVOA_D
ClientSampleId :

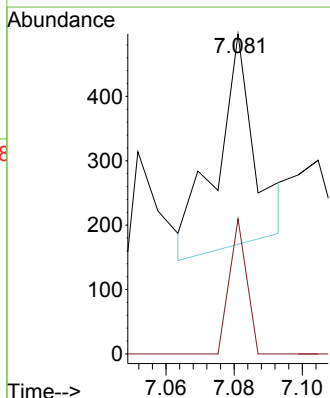
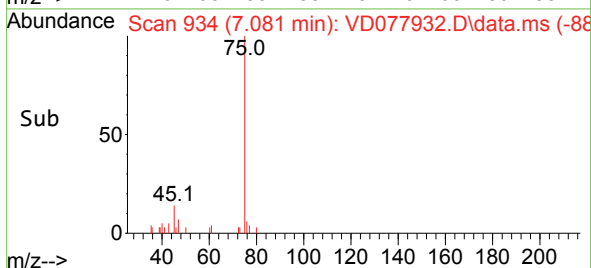
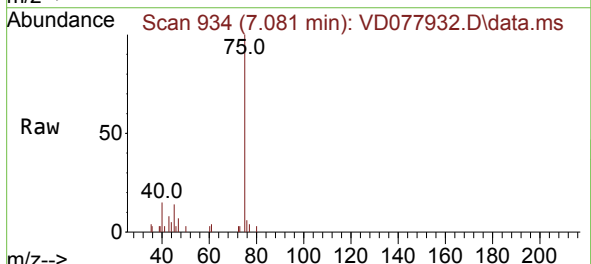


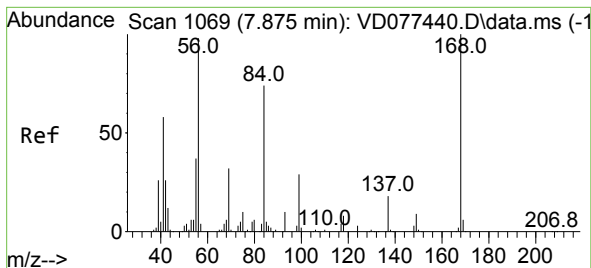
Tgt Ion:	84	Resp:	7793
Ion	Ratio	Lower	Upper
84	100		
49	94.1	71.4	107.2
51	33.7	24.5	36.7
86	55.5	48.7	73.1



#25
2-Butanone
Concen: Below Cal
RT: 7.081 min Scan# 934
Delta R.T. 0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Tgt Ion:	43	Resp:	255
Ion	Ratio	Lower	Upper
43	100		
72	67.7	30.7	46.1#





#31

Cyclohexane

Concen: 1.103 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

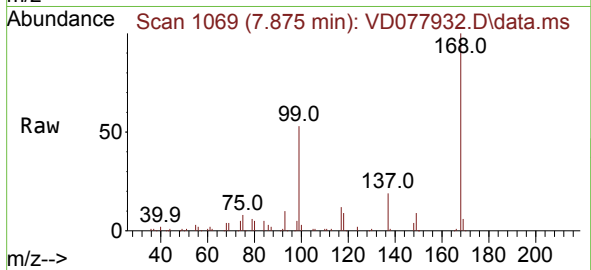
Lab File: VD077932.D

Acq: 16 Dec 2023 14:28

Instrument :

MSVOA_D

ClientSampleId :



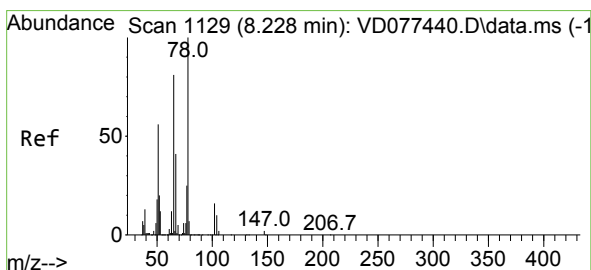
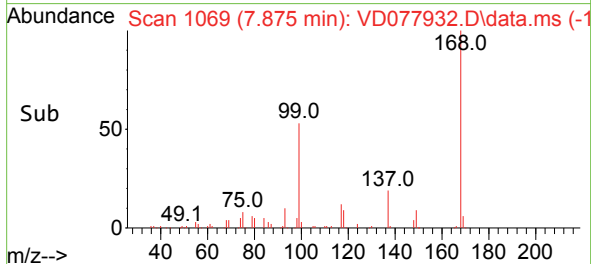
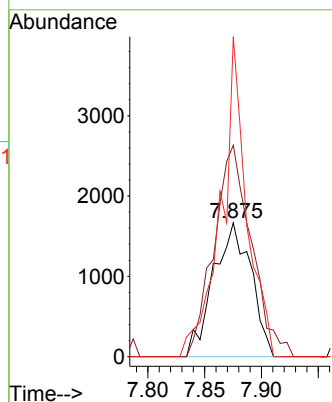
Tgt Ion: 56 Resp: 3835

Ion Ratio Lower Upper

56 100

69 158.1 28.6 43.0#

84 239.1 84.8 127.2#



#33

1,2-Dichloroethane-d4

Concen: 40.679 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD077932.D

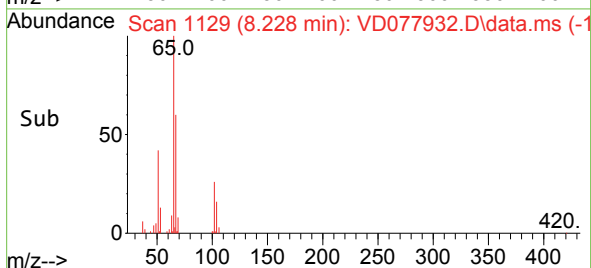
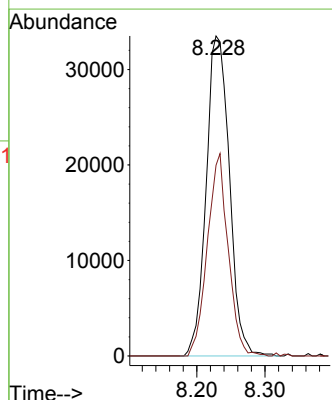
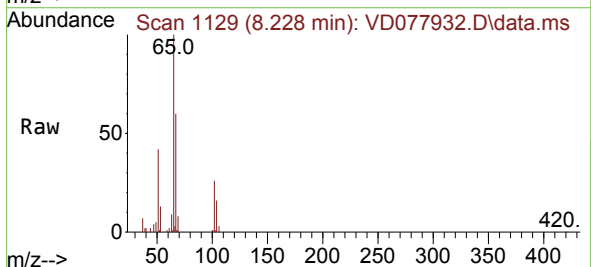
Acq: 16 Dec 2023 14:28

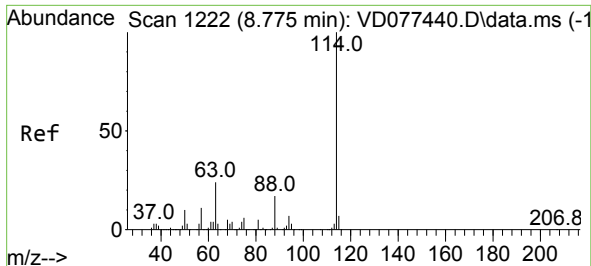
Tgt Ion: 65 Resp: 79482

Ion Ratio Lower Upper

65 100

67 56.7 0.0 115.0

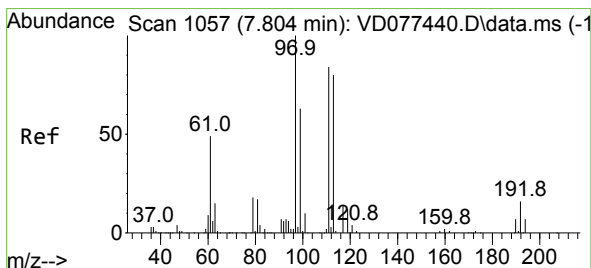
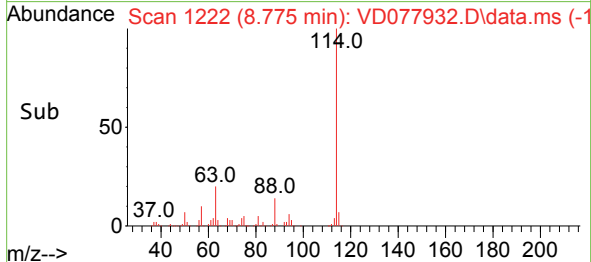
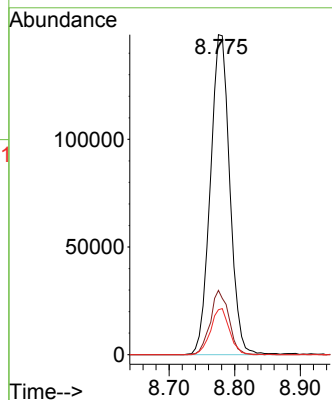
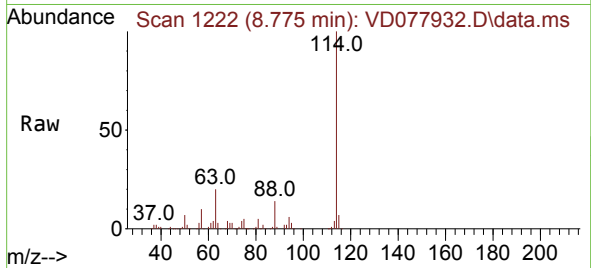




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

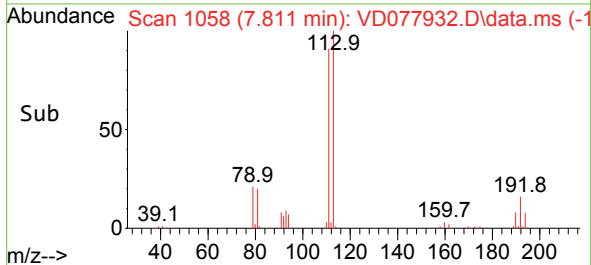
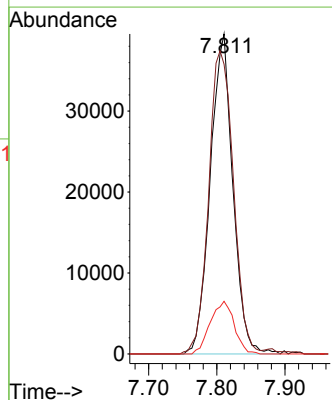
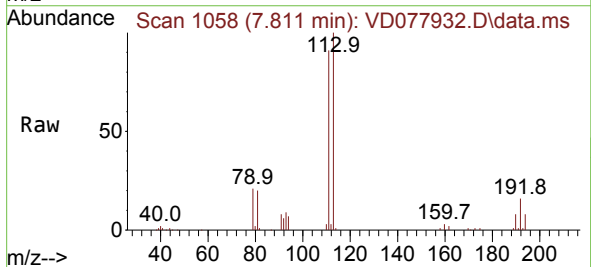
Instrument :
MSVOA_D
ClientSampleId :

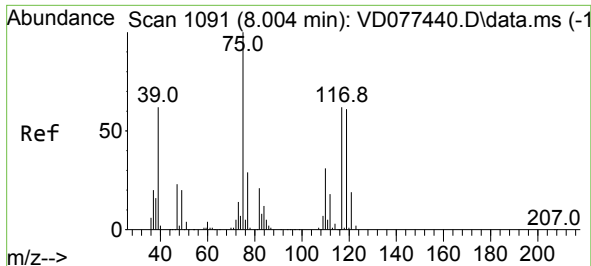
Tgt Ion:114 Resp: 305223
Ion Ratio Lower Upper
114 100
63 20.1 0.0 33.4
88 14.1 0.0 26.2



#35
Dibromofluoromethane
Concen: 42.702 ug/l
RT: 7.811 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Tgt Ion:113 Resp: 91296
Ion Ratio Lower Upper
113 100
111 103.4 84.7 127.1
192 17.4 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.174 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.135 min

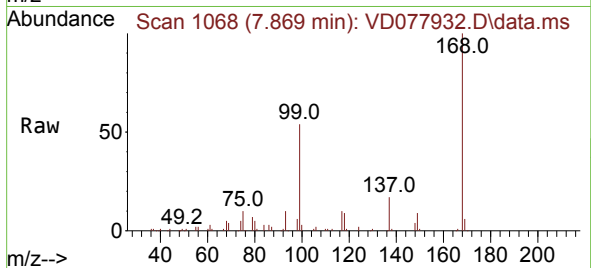
Lab File: VD077932.D

Acq: 16 Dec 2023 14:28

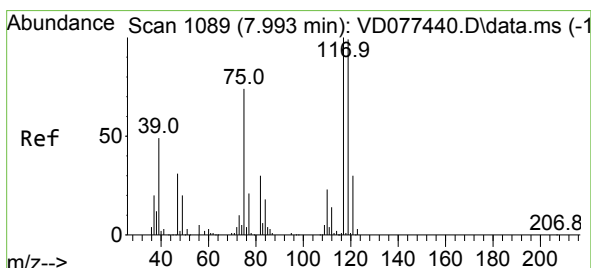
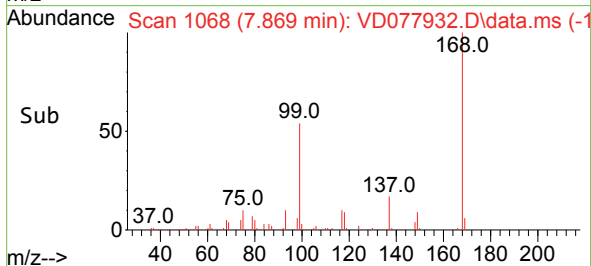
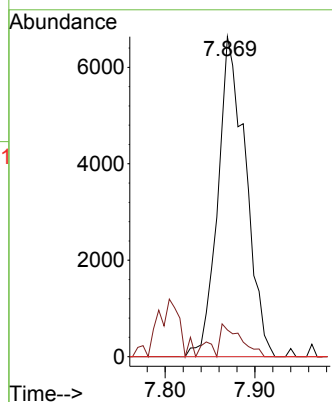
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	75	Resp:	14275
Ion Ratio	Lower	Upper	
75	100		
110	7.5	19.9	59.6#
77	0.0	24.7	37.1#



#38

Carbon Tetrachloride

Concen: 5.074 ug/l

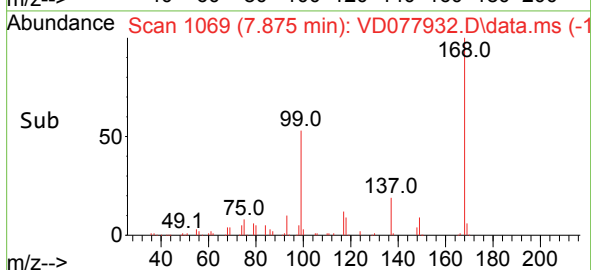
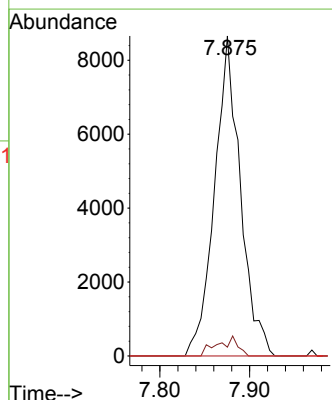
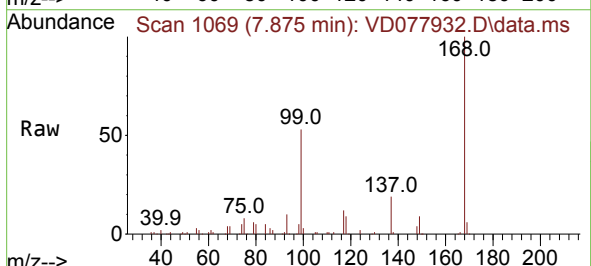
RT: 7.875 min Scan# 1069

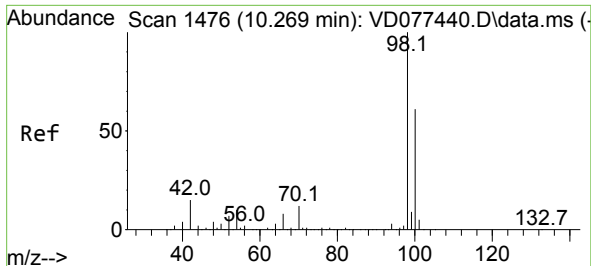
Delta R.T. -0.118 min

Lab File: VD077932.D

Acq: 16 Dec 2023 14:28

Tgt Ion:	117	Resp:	17298
Ion Ratio	Lower	Upper	
117	100		
119	2.7	78.0	117.0#
121	0.0	24.2	36.2#

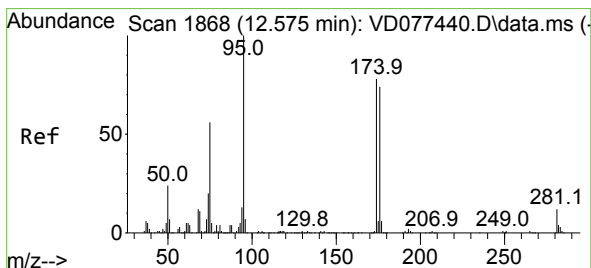
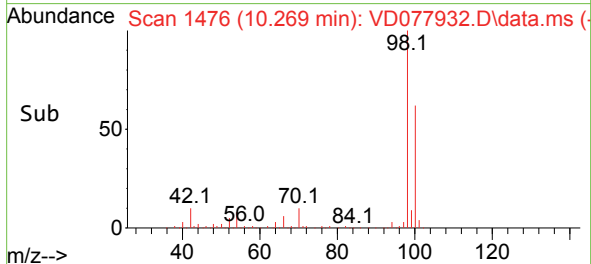
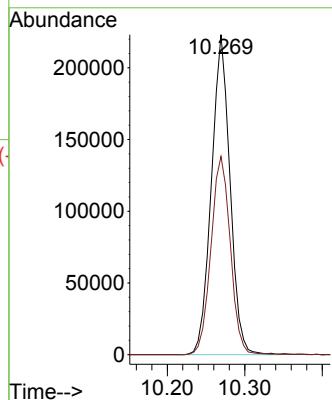
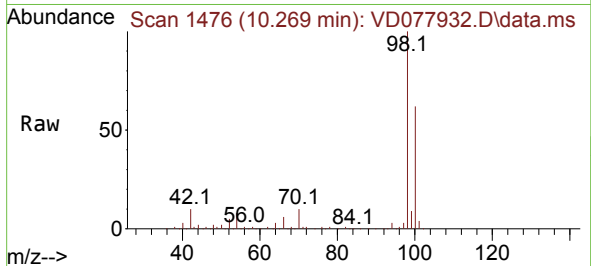




#50
Toluene-d8
Concen: 43.487 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

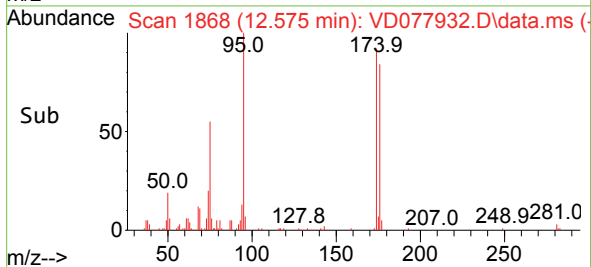
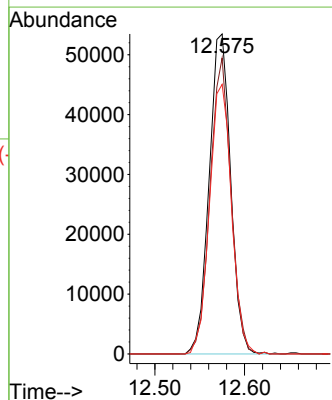
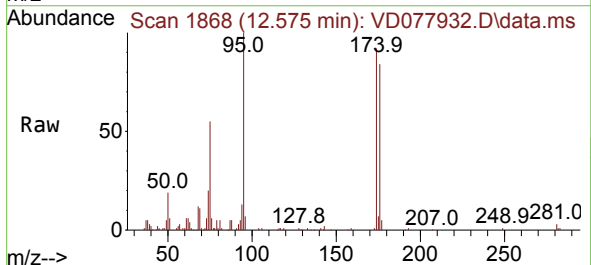
Instrument :
MSVOA_D
ClientSampleId :

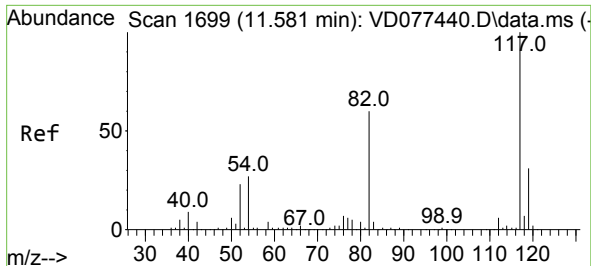
Tgt Ion: 98 Resp: 372377
Ion Ratio Lower Upper
98 100
100 64.4 50.3 75.5



#62
4-Bromofluorobenzene
Concen: 34.749 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Tgt Ion: 95 Resp: 88960
Ion Ratio Lower Upper
95 100
174 90.0 0.0 201.8
176 86.5 0.0 191.8

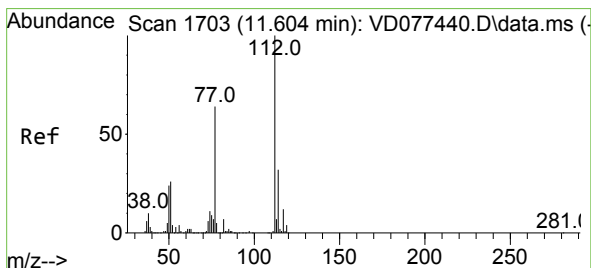
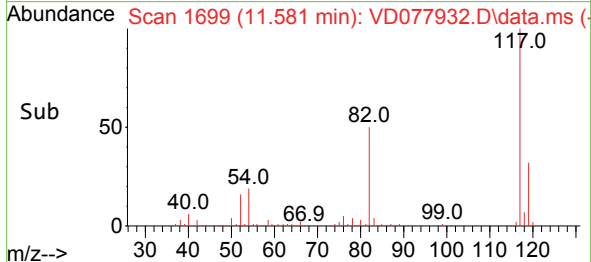
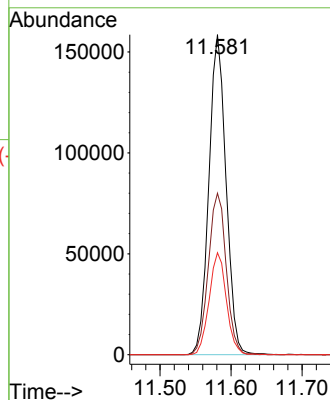
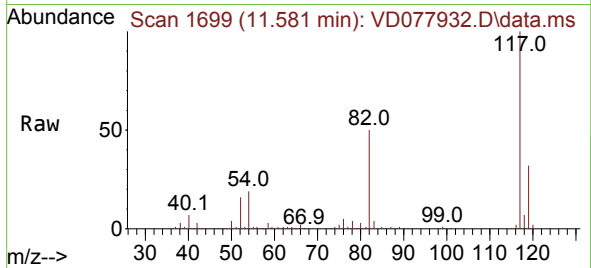




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

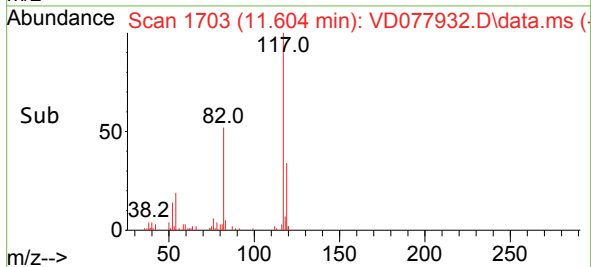
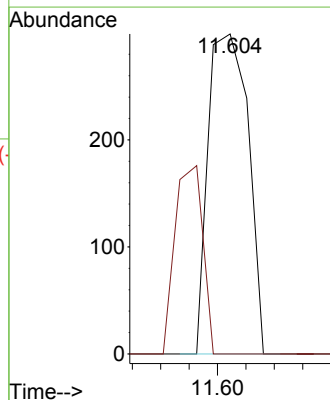
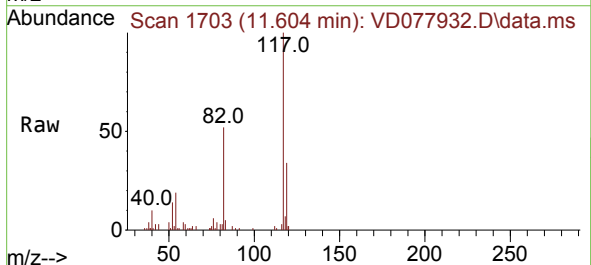
Instrument :
MSVOA_D
ClientSampleId :

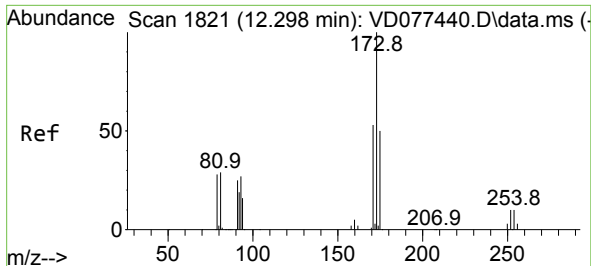
Tgt Ion:117 Resp: 266287
Ion Ratio Lower Upper
117 100
82 50.4 38.3 57.5
119 31.9 25.0 37.4



#65
Chlorobenzene
Concen: Below Cal
RT: 11.604 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Tgt Ion:112 Resp: 292
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#

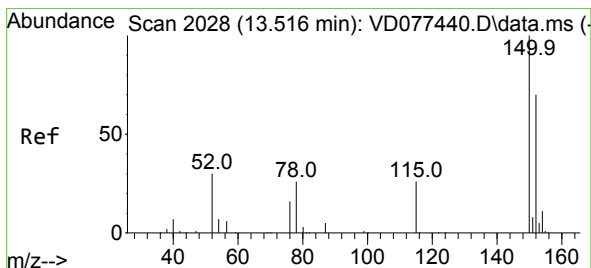
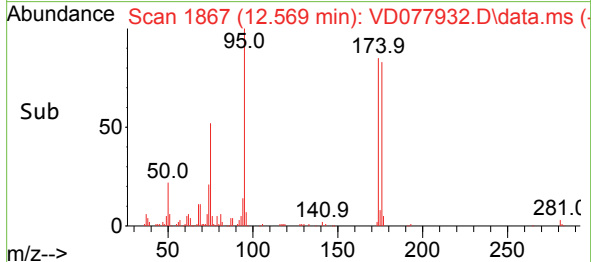
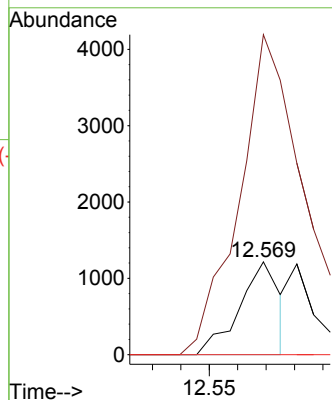
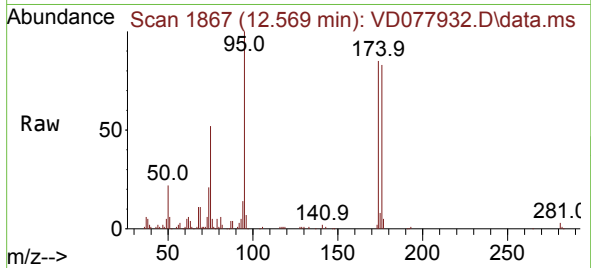




#71
Bromoform
Concen: 1.042 ug/l
RT: 12.569 min Scan# 1821
Delta R.T. 0.271 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

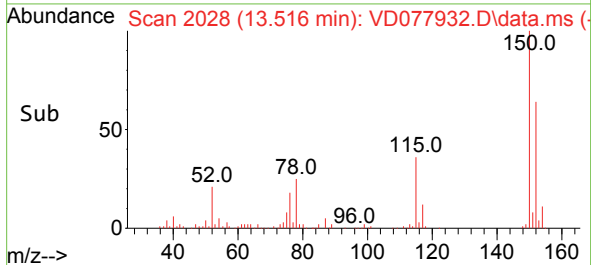
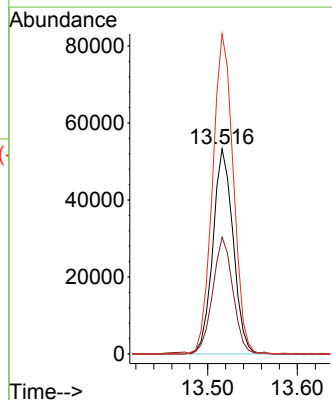
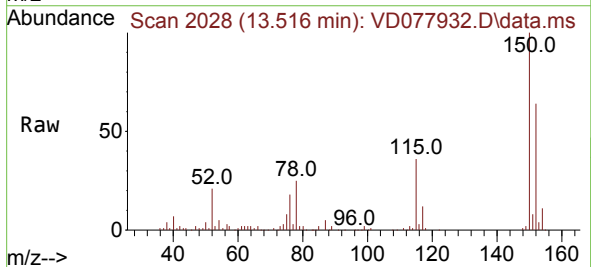
Instrument :
MSVOA_D
ClientSampleId :

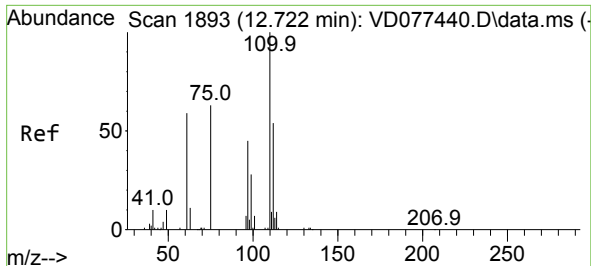
Tgt Ion:173 Resp: 1206
Ion Ratio Lower Upper
173 100
175 376.5 24.6 73.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.000 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Tgt Ion:152 Resp: 83395
Ion Ratio Lower Upper
152 100
115 57.0 27.1 81.3
150 160.0 0.0 353.6

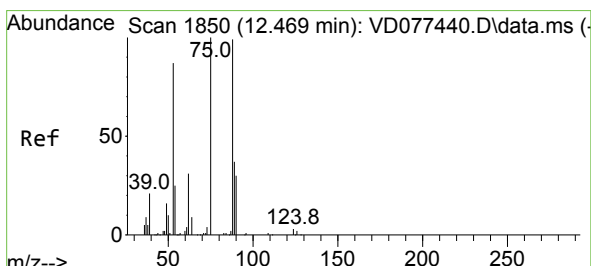
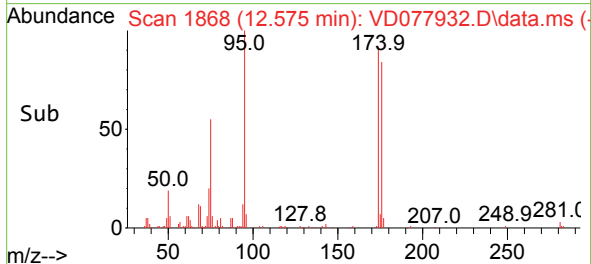
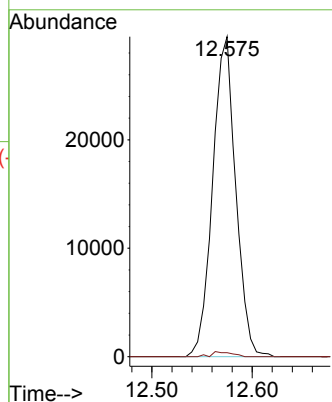
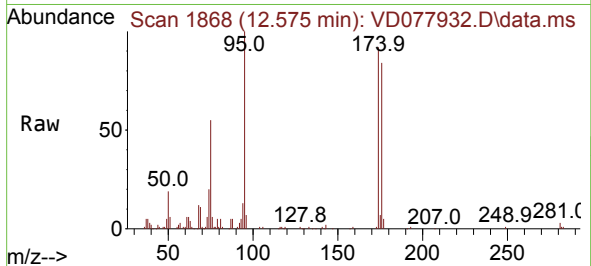




#76
1,2,3-Trichloropropane
Concen: 65.119 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

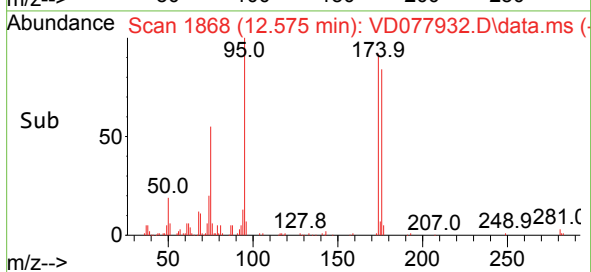
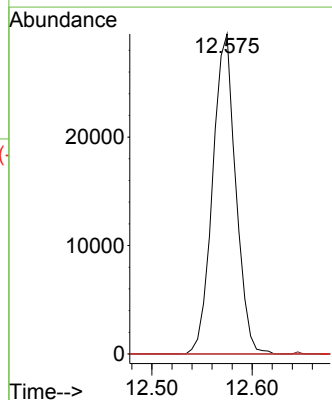
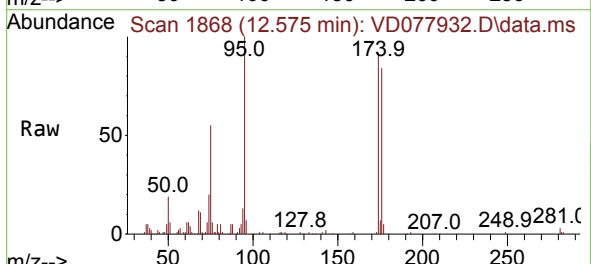
Instrument :
MSVOA_D
ClientSampleId :

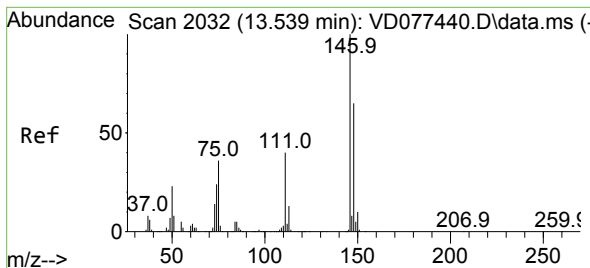
Tgt Ion: 75 Resp: 47165
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 131.936 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077932.D
Acq: 16 Dec 2023 14:28

Tgt Ion: 75 Resp: 47165
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.540 min Scan# 2032

Delta R.T. 0.001 min

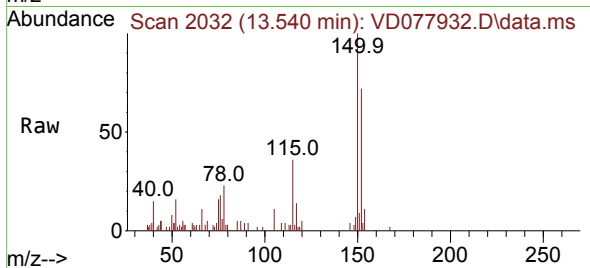
Lab File: VD077932.D

Acq: 16 Dec 2023 14:28

Instrument :

MSVOA_D

ClientSampleId :



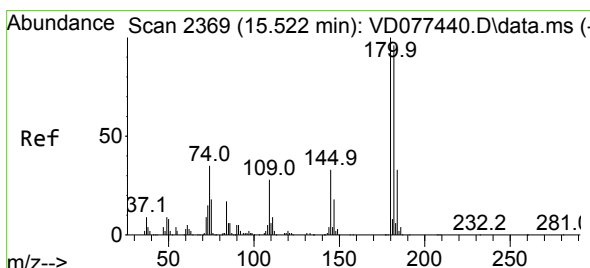
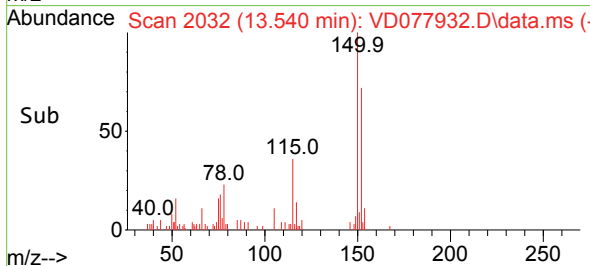
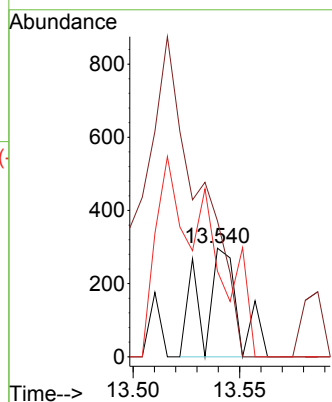
Tgt Ion:146 Resp: 349

Ion Ratio Lower Upper

146 100

111 0.0 17.4 52.3#

148 0.0 31.7 95.1#



#96

1,2,3-Trichlorobenzene

Concen: 1.023 ug/l

RT: 15.522 min Scan# 2369

Delta R.T. -0.000 min

Lab File: VD077932.D

Acq: 16 Dec 2023 14:28

Tgt Ion:180 Resp: 1489

Ion Ratio Lower Upper

180 100

182 38.9 47.3 141.9#

145 92.4 15.1 45.3#

