

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121523\
 Data File : VD077898.D
 Acq On : 15 Dec 2023 12:47
 Operator : RP/MD
 Sample : 05611-07
 Misc : 5.05G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 03:59:53 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)

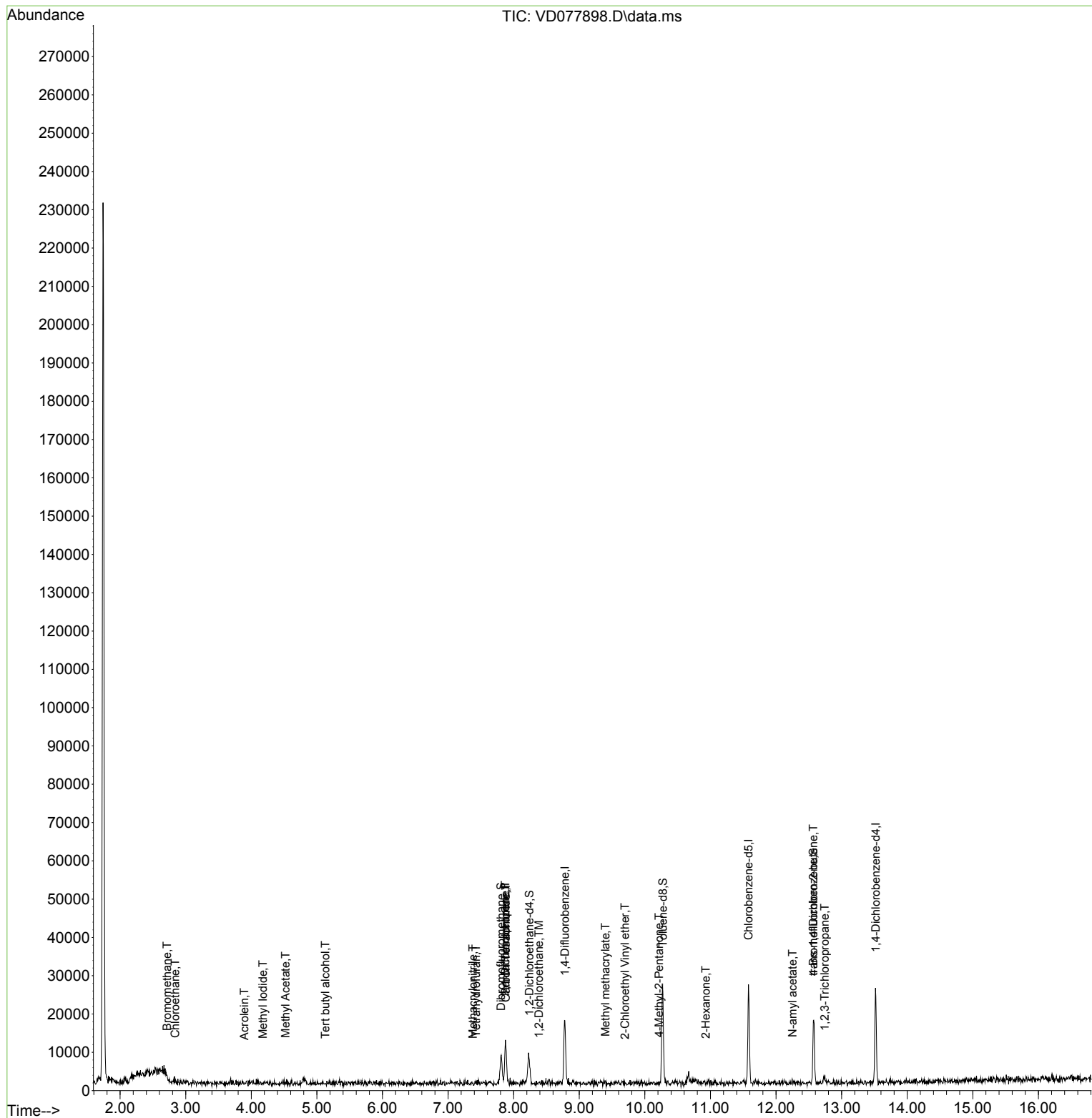
Internal Standards						
1) Pentafluorobenzene	7.875	168	7997	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	14422	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	13617	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	6404	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.240	65	6082	64.542	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	129.080%
35) Dibromofluoromethane	7.810	113	4939	48.891	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.780%
50) Toluene-d8	10.275	98	17850	44.117	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	88.240%
62) 4-Bromofluorobenzene	12.569	95	4737	39.160	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	78.320%
Target Compounds						
						Qvalue
5) Bromomethane	2.716	94	389	3.750	ug/l	# 2
6) Chloroethane	2.840	64	138	1.095	ug/l	# 43
10) Methyl Iodide	4.175	142	234	9.113	ug/l	# 46
11) Tert butyl alcohol	5.128	59	128	17.734	ug/l	# 73
13) Acrolein	3.893	56	60	6.019	ug/l	# 70
16) Acetone	4.022	43	142	Below Cal	#	32
18) Methyl Acetate	4.522	43	121	1.630	ug/l	# 42
20) Methylene Chloride	4.811	84	292	Below Cal	#	38
25) 2-Butanone	7.057	43	158	Below Cal	#	37
29) Tetrahydrofuran	7.428	42	66	4.398	ug/l	# 23
36) 1,1-Dichloropropene	7.875	75	851	5.266	ug/l	# 39
38) Carbon Tetrachloride	7.881	117	911	5.655	ug/l	# 11
41) Methacrylonitrile	7.381	41	62	1.936	ug/l	# 71
42) 1,2-Dichloroethane	8.387	62	121	1.018	ug/l	# 68
48) Methyl methacrylate	9.399	41	72	1.131	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.216	43	118	2.064	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.698	63	69	1.701	ug/l	# 43
59) 2-Hexanone	10.928	43	67	1.413	ug/l	# 16
74) N-amyl acetate	12.251	43	112	1.174	ug/l	# 35
76) 1,2,3-Trichloropropane	12.745	75	127	2.283	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.569	75	2745	99.994	ug/l	# 17
88) 1,4-Dichlorobenzene	13.528	146	124	Below Cal	#	38

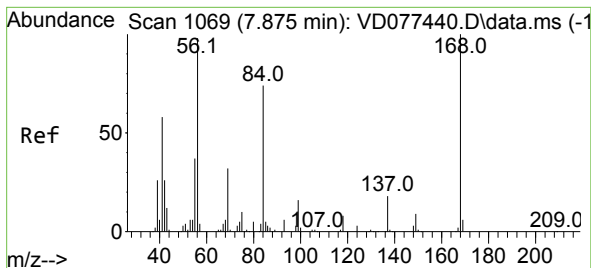
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD077898.D

Acq: 15 Dec 2023 12:47

Instrument :

MSVOA_D

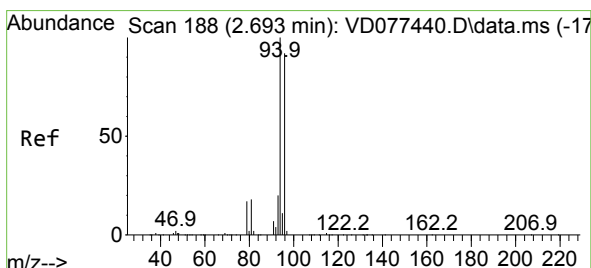
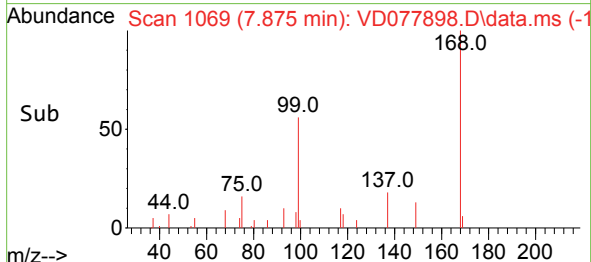
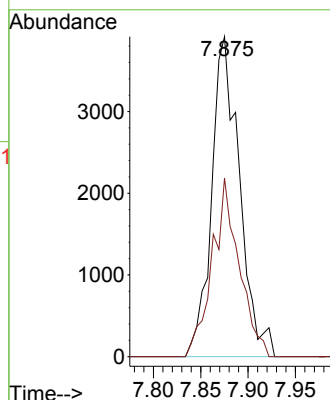
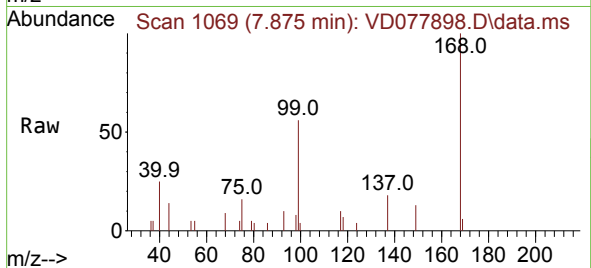
ClientSampleId :

Tgt Ion:168 Resp: 7997

Ion Ratio Lower Upper

168 100

99 55.8 36.7 55.1#



#5

Bromomethane

Concen: 3.750 ug/l

RT: 2.716 min Scan# 192

Delta R.T. 0.023 min

Lab File: VD077898.D

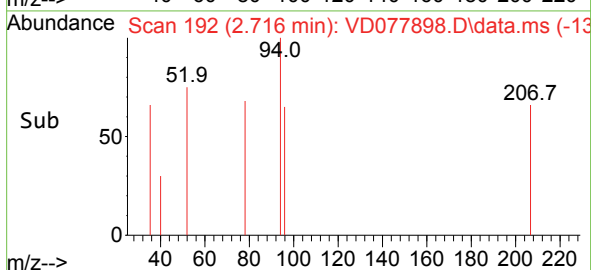
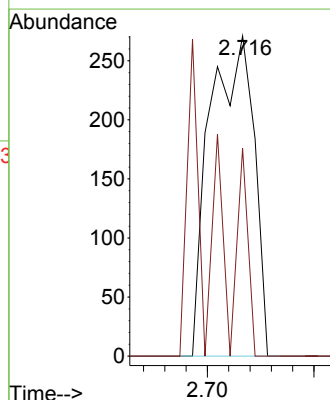
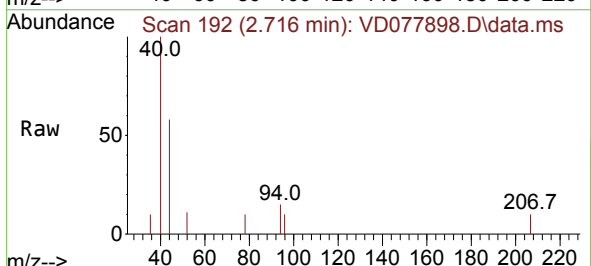
Acq: 15 Dec 2023 12:47

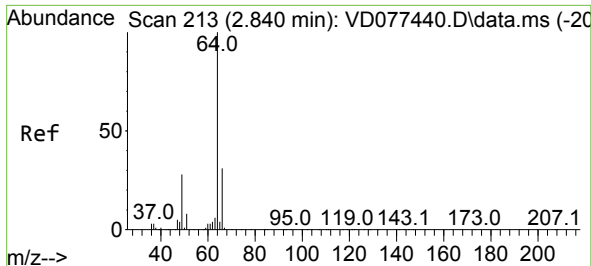
Tgt Ion: 94 Resp: 389

Ion Ratio Lower Upper

94 100

96 0.0 75.8 113.8#

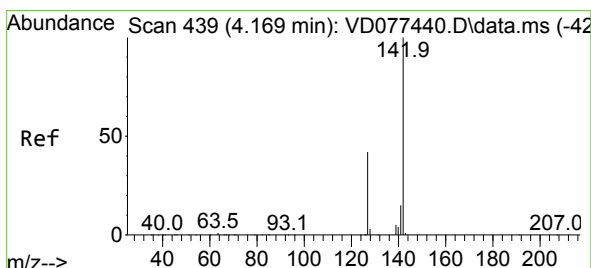
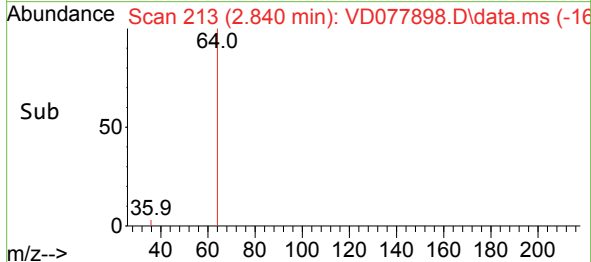
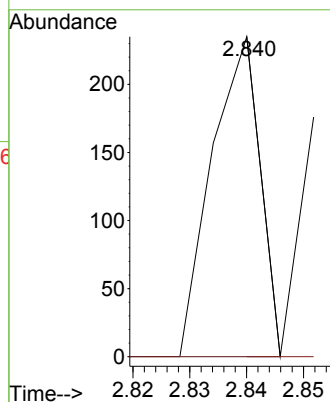
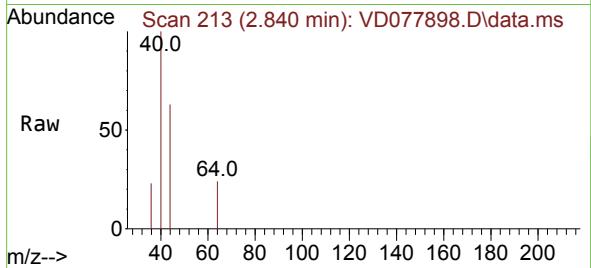




#6
Chloroethane
Concen: 1.095 ug/l
RT: 2.840 min Scan# 213
Delta R.T. 0.000 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

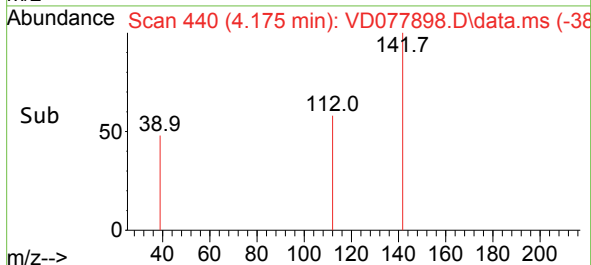
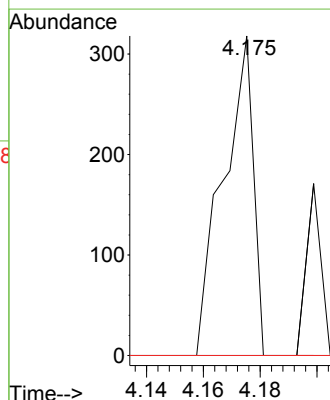
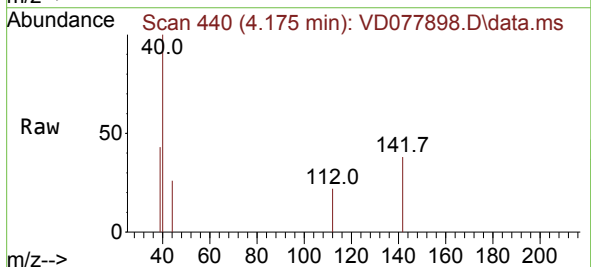
Instrument :
MSVOA_D
ClientSampleId :

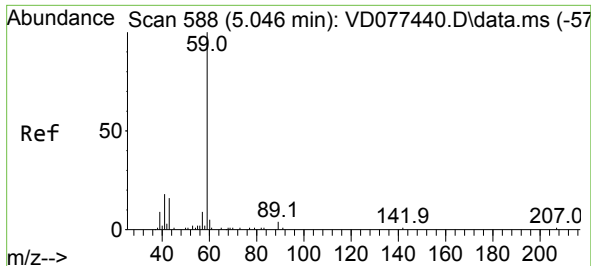
Tgt Ion: 64 Resp: 138
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



#10
Methyl Iodide
Concen: 9.113 ug/l
RT: 4.175 min Scan# 440
Delta R.T. 0.006 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Tgt Ion:142 Resp: 234
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: 17.734 ug/l

RT: 5.128 min Scan# 60

Delta R.T. 0.082 min

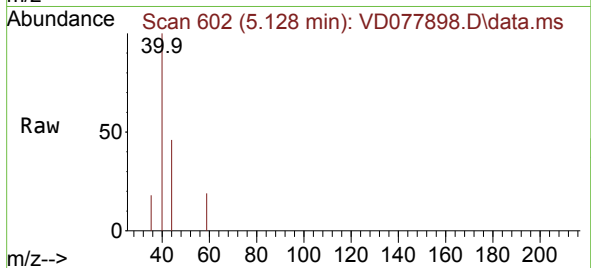
Lab File: VD077898.D

Acq: 15 Dec 2023 12:47

Instrument :

MSVOA_D

ClientSampleId :

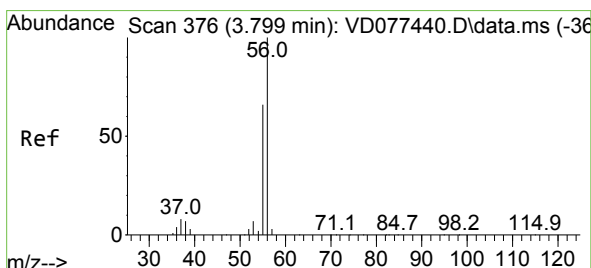
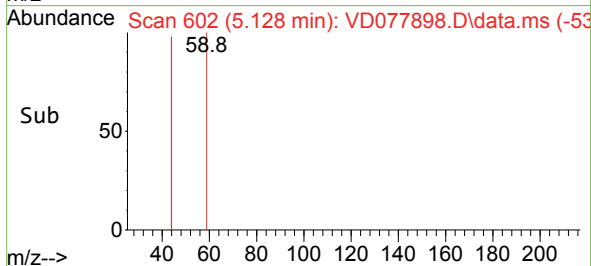
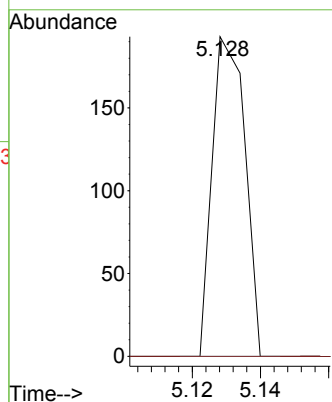


Tgt Ion: 59 Resp: 128

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#13

Acrolein

Concen: 6.019 ug/l

RT: 3.893 min Scan# 392

Delta R.T. 0.094 min

Lab File: VD077898.D

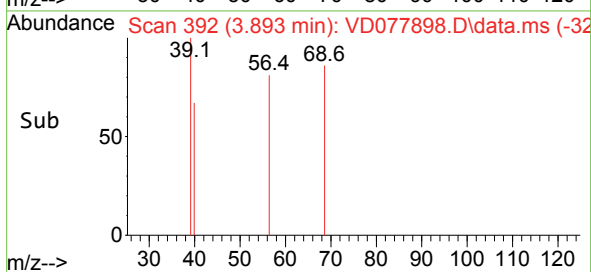
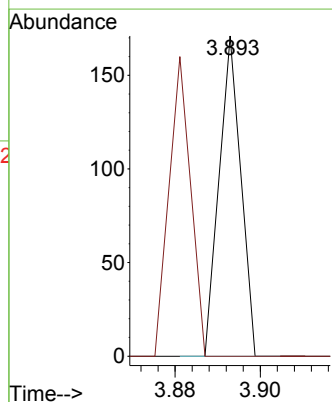
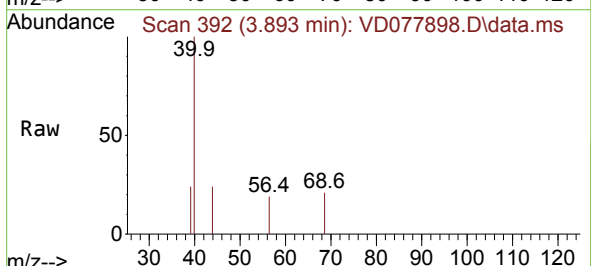
Acq: 15 Dec 2023 12:47

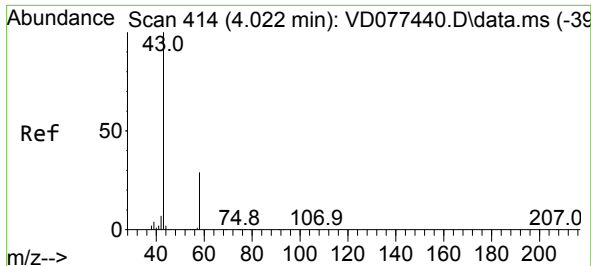
Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 93.3 55.1 82.7#

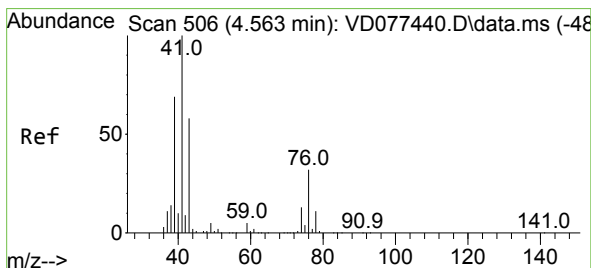
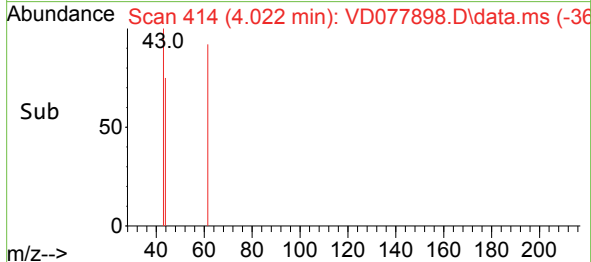
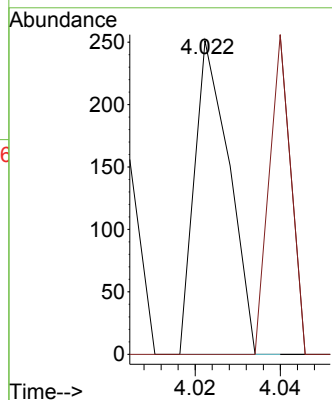
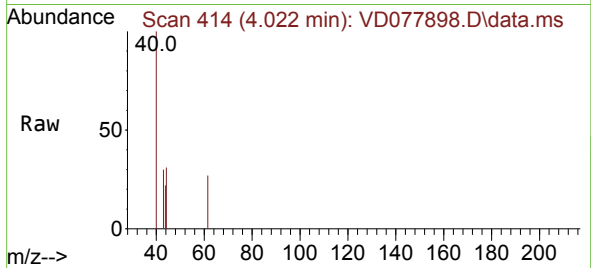




#16
Acetone
Concen: Below Cal
RT: 4.022 min Scan# 414
Delta R.T. 0.000 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

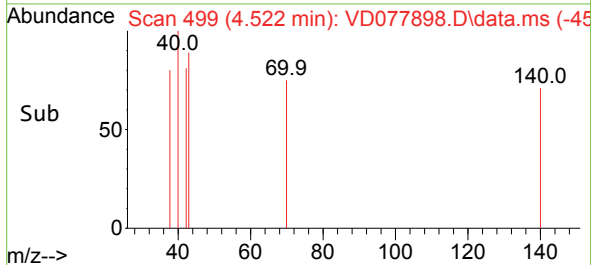
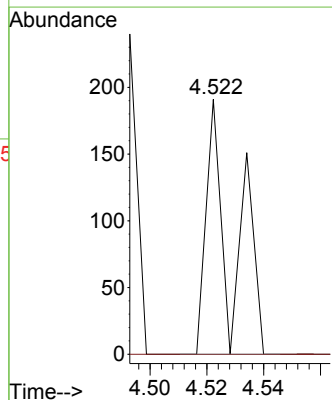
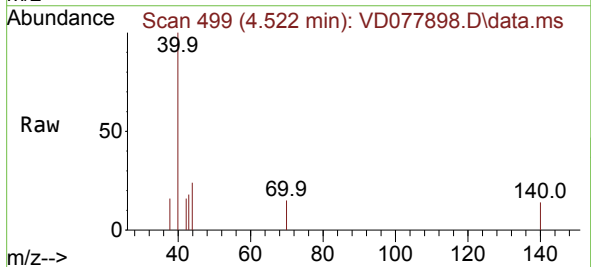
Instrument :
MSVOA_D
ClientSampleId :

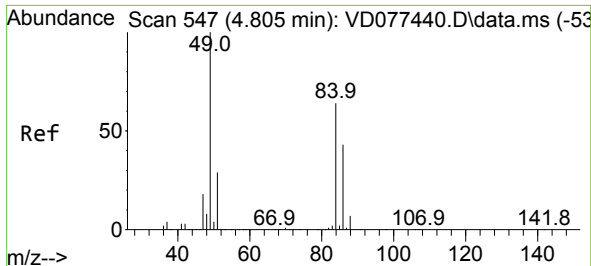
Tgt Ion: 43 Resp: 142
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



#18
Methyl Acetate
Concen: 1.630 ug/l
RT: 4.522 min Scan# 499
Delta R.T. -0.041 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

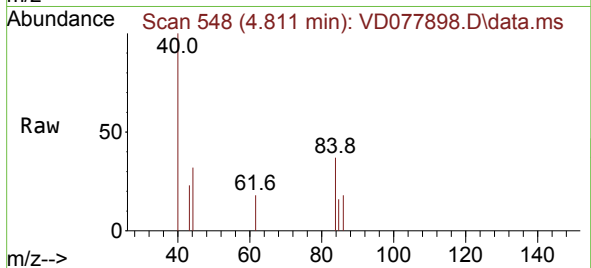
Tgt Ion: 43 Resp: 121
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



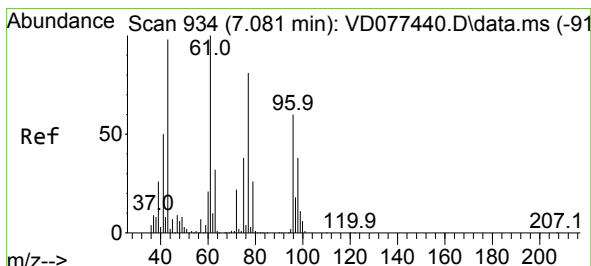
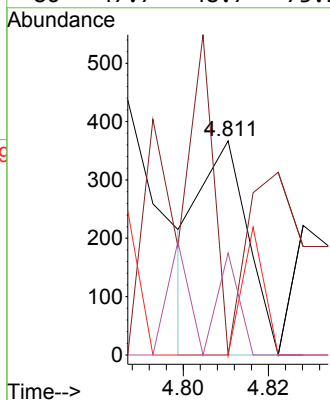
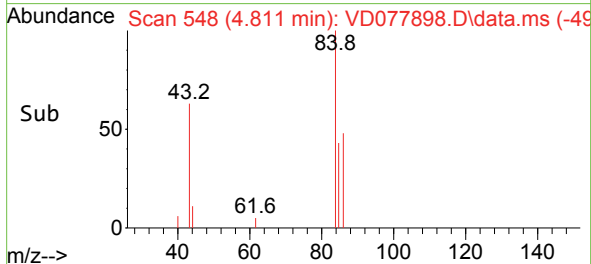


#20
Methylene Chloride
Concen: Below Cal
RT: 4.811 min Scan# 54
Delta R.T. 0.006 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

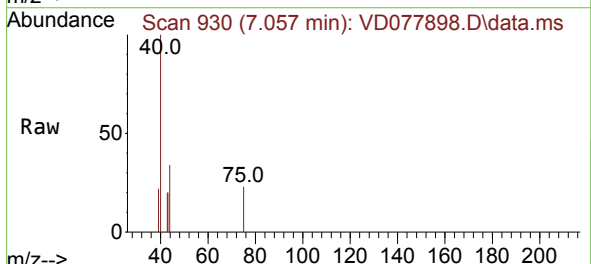
Instrument :
MSVOA_D
ClientSampleId :



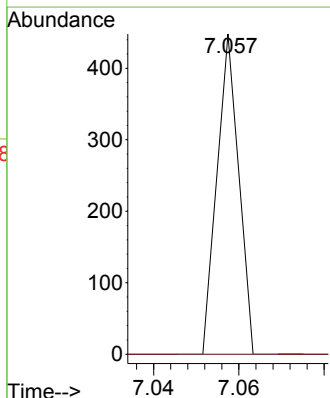
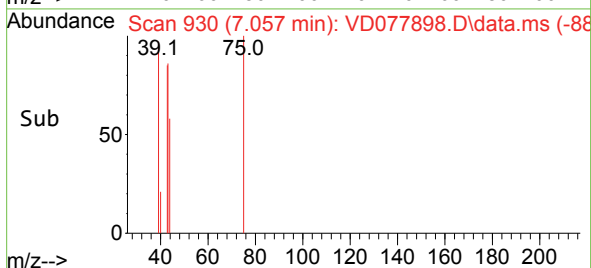
Tgt Ion: 84 Resp: 292
Ion Ratio Lower Upper
84 100
49 0.0 71.4 107.2#
51 0.0 24.5 36.7#
86 47.7 48.7 73.1#

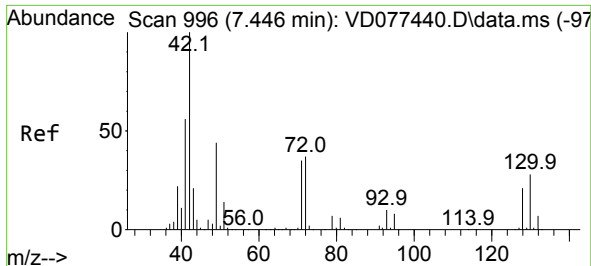


#25
2-Butanone
Concen: Below Cal
RT: 7.057 min Scan# 930
Delta R.T. -0.024 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47



Tgt Ion: 43 Resp: 158
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#





#29

Tetrahydrofuran

Concen: 4.398 ug/l

RT: 7.428 min Scan# 996

Delta R.T. -0.018 min

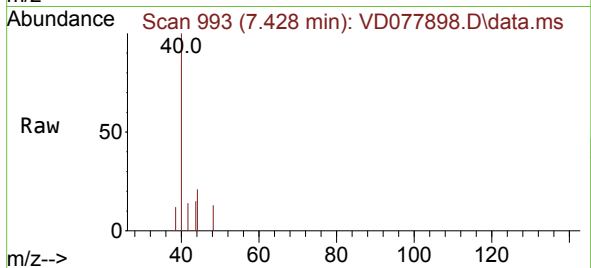
Lab File: VD077898.D

Acq: 15 Dec 2023 12:47

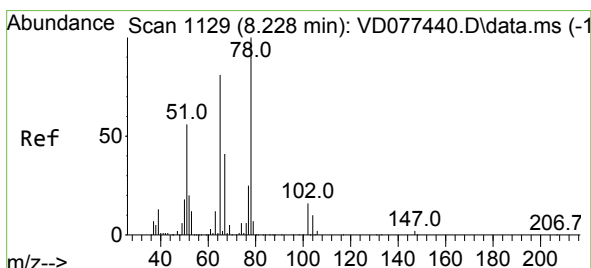
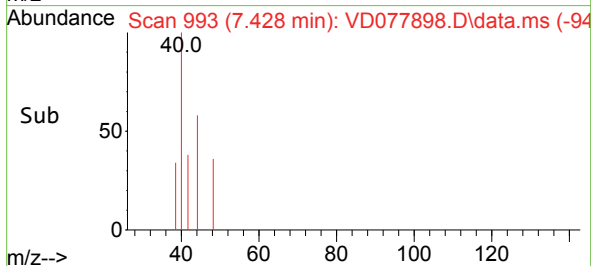
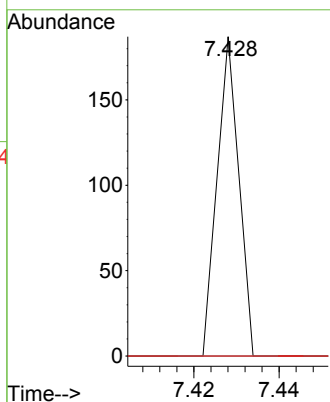
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	66
Ion	Ratio	Lower	Upper
42	100		
72	0.0	46.5	69.7#
71	0.0	44.5	66.7#



#33

1,2-Dichloroethane-d4

Concen: 64.542 ug/l

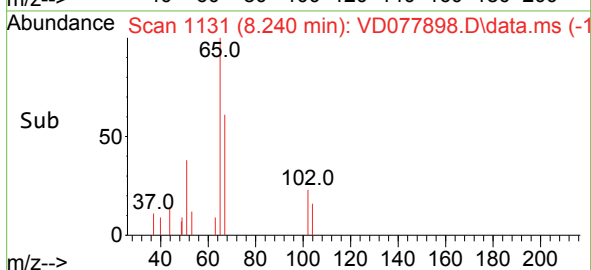
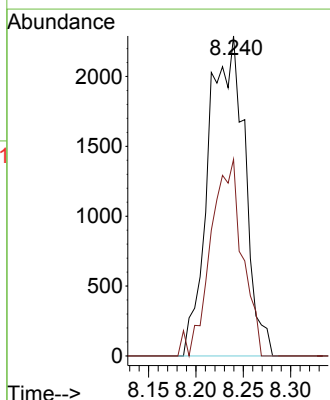
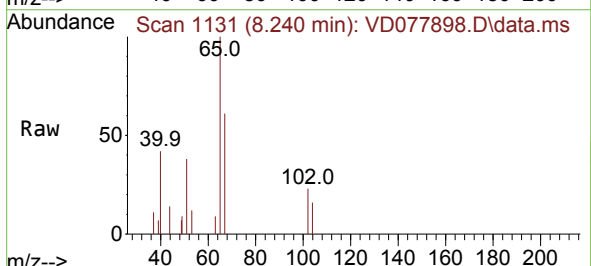
RT: 8.240 min Scan# 1131

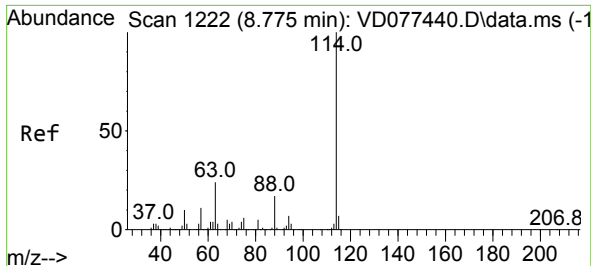
Delta R.T. 0.012 min

Lab File: VD077898.D

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Tgt Ion:	65	Resp:	6082
Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	115.0

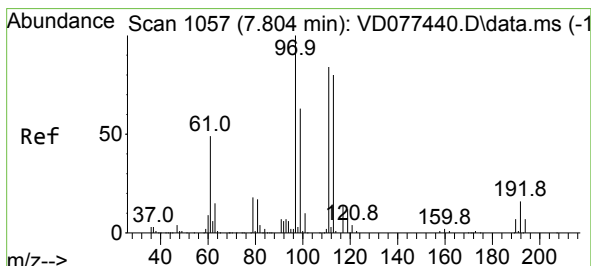
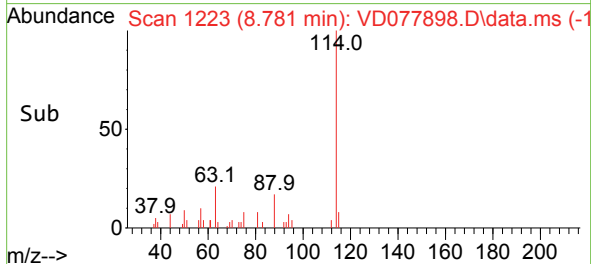
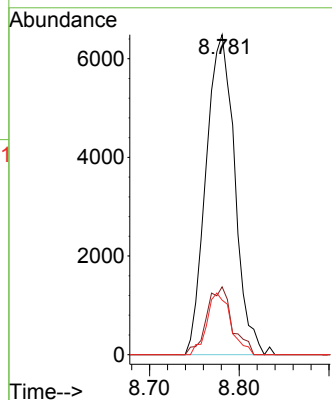
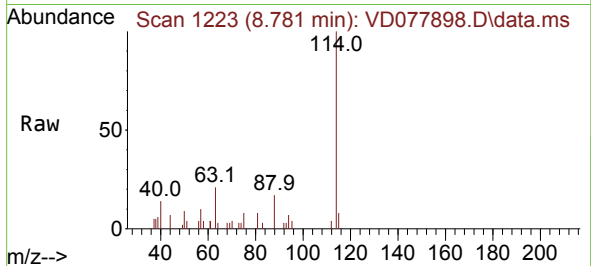




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.781 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

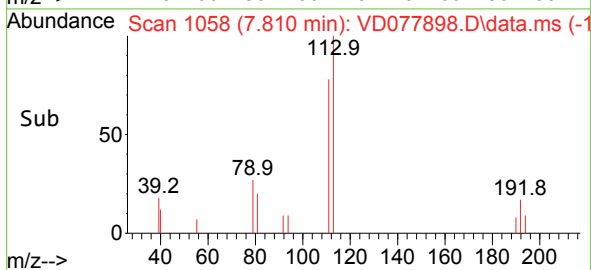
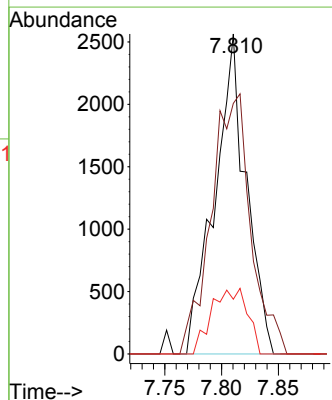
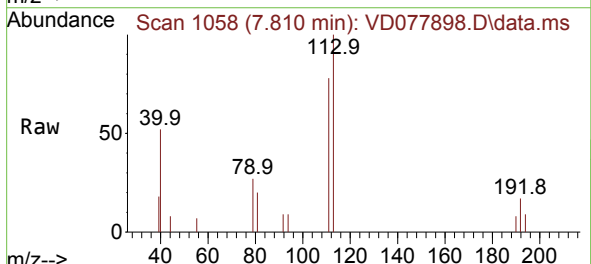
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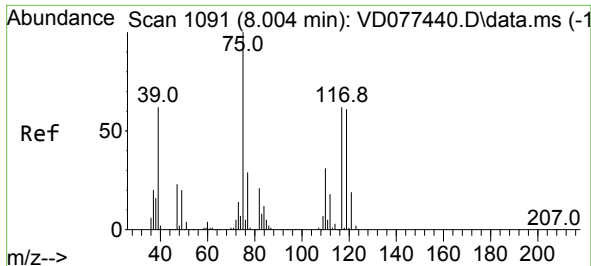
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	33.4
88	17.0	0.0	26.2



#35
Dibromofluoromethane
Concen: 48.891 ug/l
RT: 7.810 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

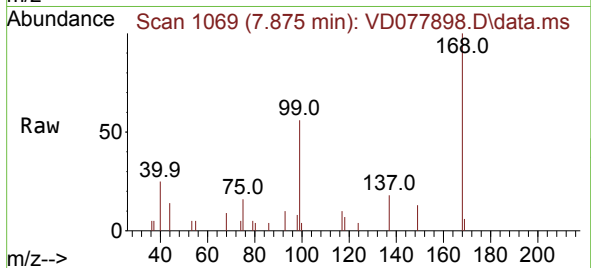
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	84.7	127.1
192	23.3	16.8	25.2



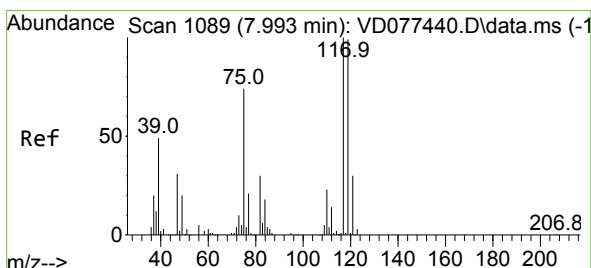
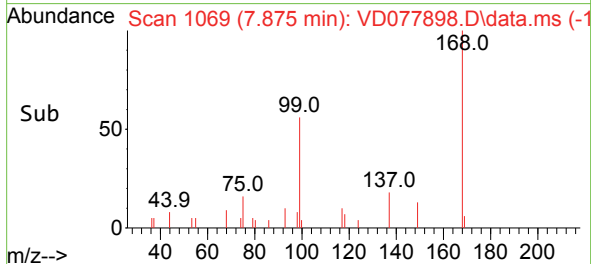
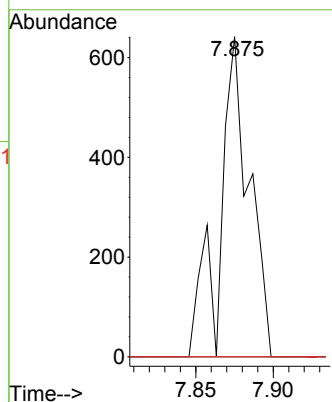


#36
1,1-Dichloropropene
Concen: 5.266 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.129 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Instrument :
MSVOA_D
ClientSampleId :

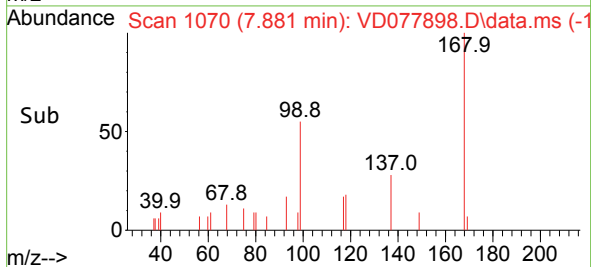
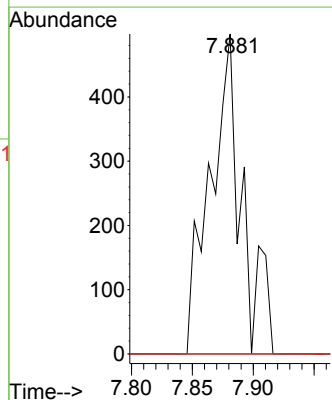
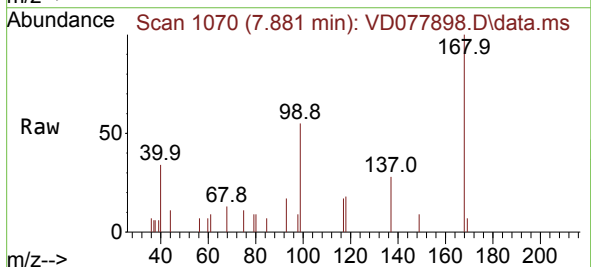


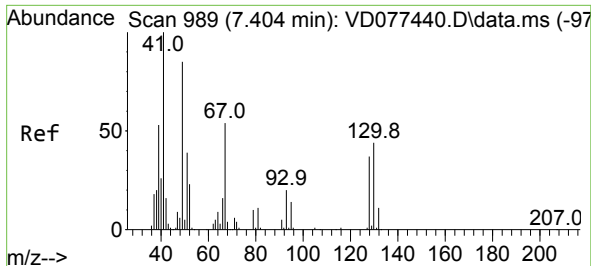
Tgt Ion: 75 Resp: 851
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.655 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.112 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

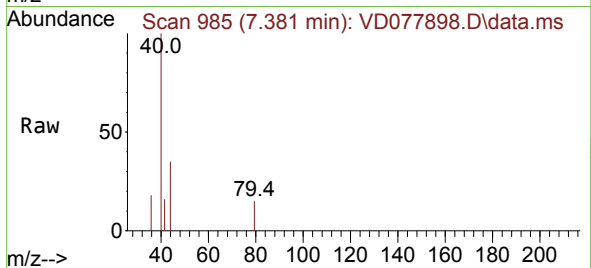
Tgt Ion: 117 Resp: 911
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 24.2 36.2#



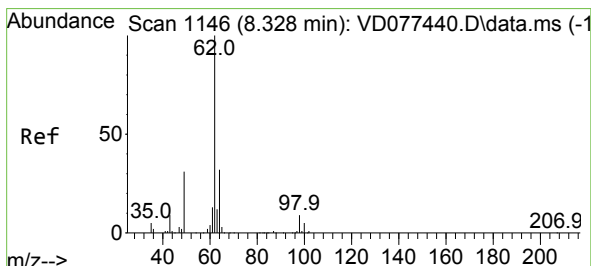
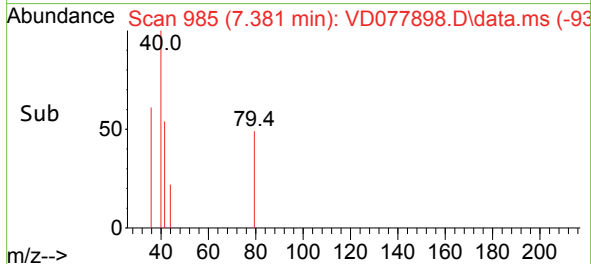
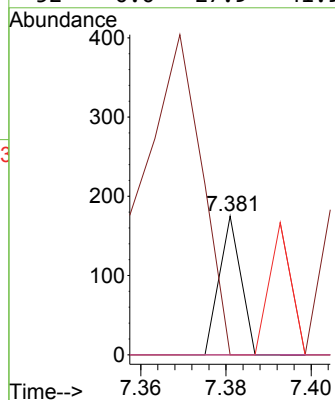


#41
Methacrylonitrile
Concen: 1.936 ug/l
RT: 7.381 min Scan# 91
Delta R.T. -0.023 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Instrument :
MSVOA_D
ClientSampleId :

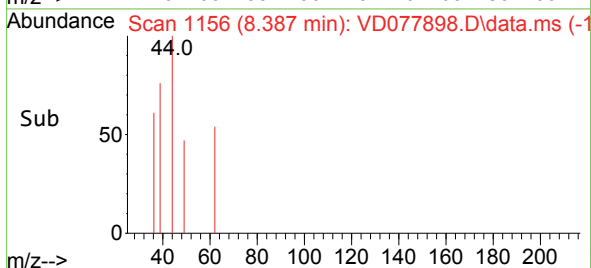
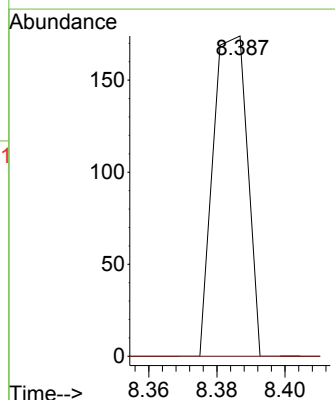
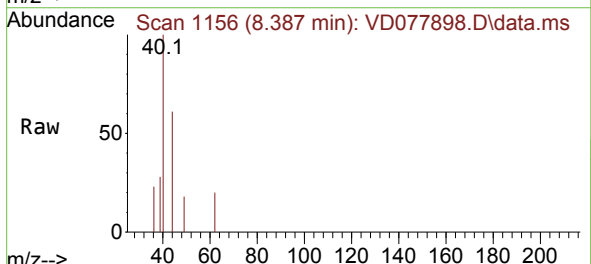


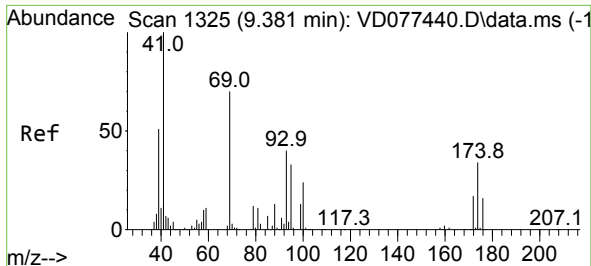
Tgt Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
39	0.0	34.0	51.0#
67	95.2	77.0	115.4
52	0.0	27.9	41.9#



#42
1,2-Dichloroethane
Concen: 1.018 ug/l
RT: 8.387 min Scan# 1156
Delta R.T. 0.059 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Tgt Ion:	62	Resp:	121
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	25.4





#48

Methyl methacrylate

Concen: 1.131 ug/l

RT: 9.399 min Scan# 11

Delta R.T. 0.018 min

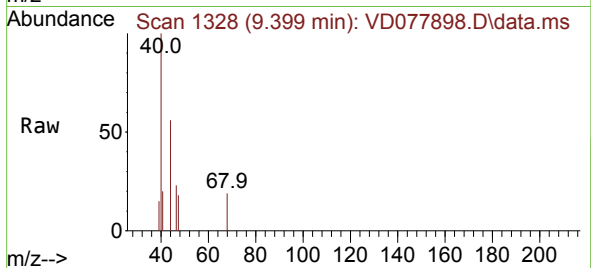
Lab File: VD077898.D

Acq: 15 Dec 2023 12:47

Instrument :

MSVOA_D

ClientSampleId :



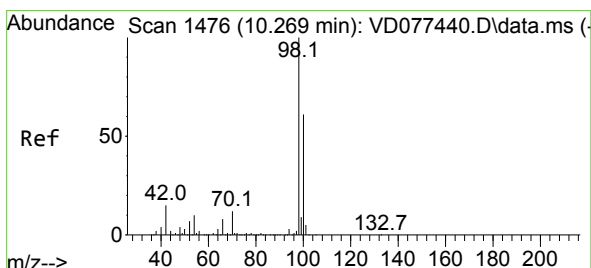
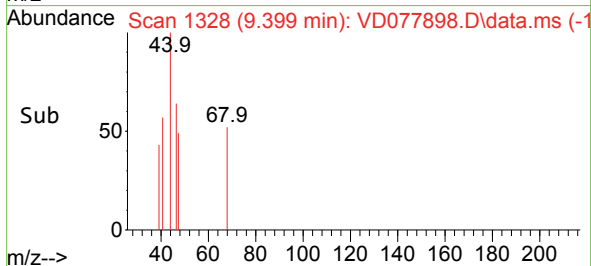
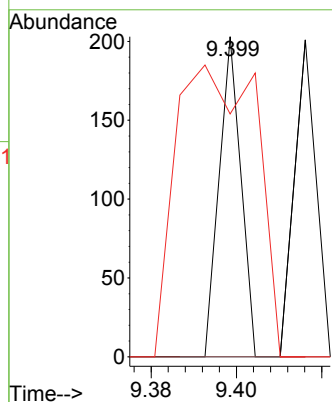
Tgt Ion: 41 Resp: 72

Ion Ratio Lower Upper

41 100

69 0.0 102.2 153.2#

39 336.1 41.4 62.2#



#50

Toluene-d8

Concen: 44.117 ug/l

RT: 10.275 min Scan# 1477

Delta R.T. 0.006 min

Lab File: VD077898.D

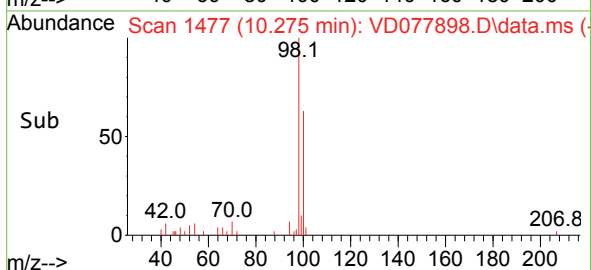
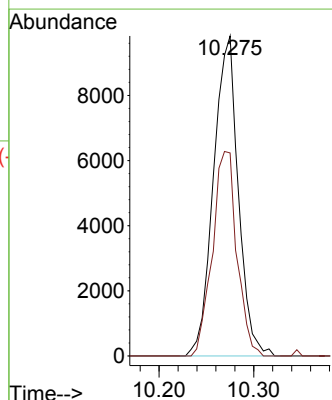
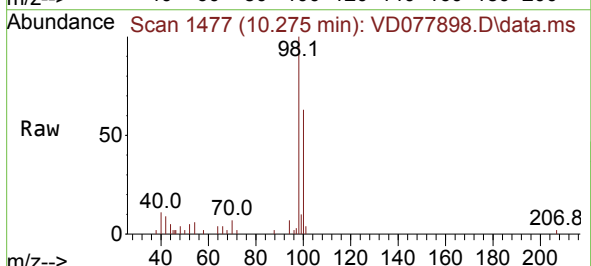
Acq: 15 Dec 2023 12:47

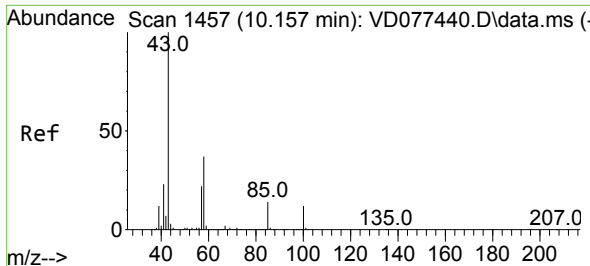
Tgt Ion: 98 Resp: 17850

Ion Ratio Lower Upper

98 100

100 63.1 50.3 75.5

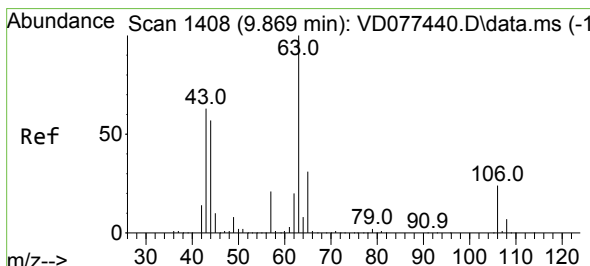
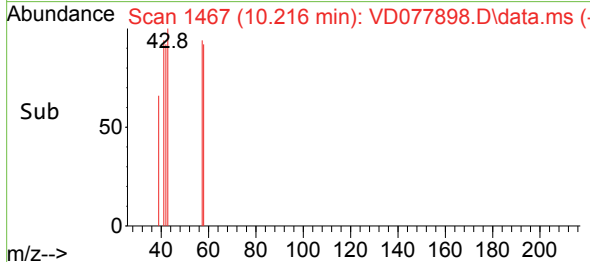
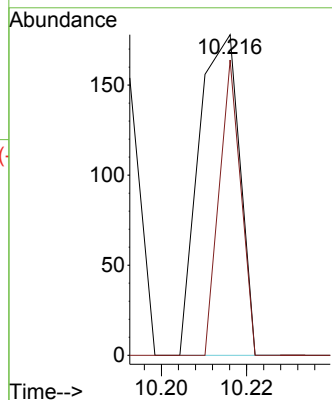
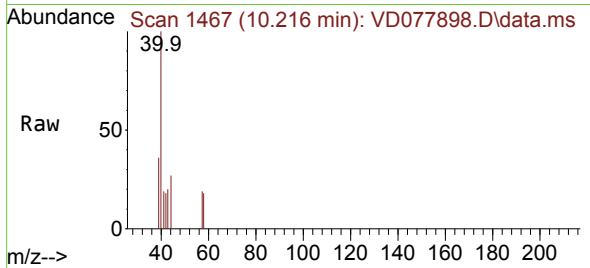




#51
4-Methyl-2-Pentanone
Concen: 2.064 ug/l
RT: 10.216 min Scan# 1457
Delta R.T. 0.059 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

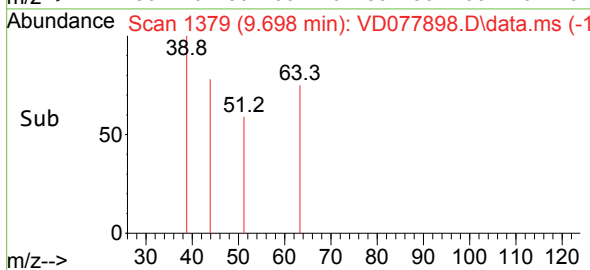
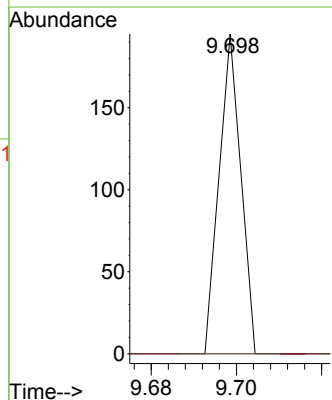
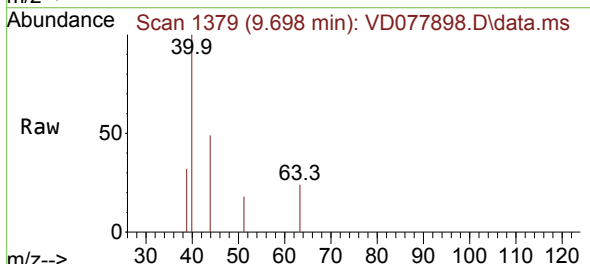
Instrument :
MSVOA_D
ClientSampleId :

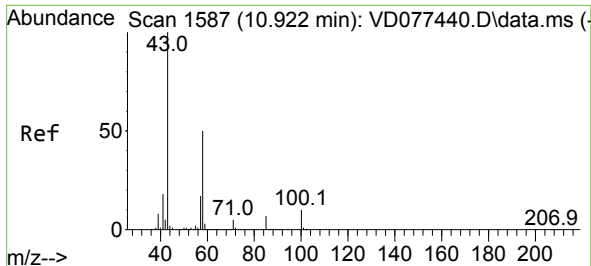
Tgt Ion: 43 Resp: 118
Ion Ratio Lower Upper
43 100
58 49.2 38.9 58.3



#58
2-Chloroethyl Vinyl ether
Concen: 1.701 ug/l
RT: 9.698 min Scan# 1379
Delta R.T. -0.171 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Tgt Ion: 63 Resp: 69
Ion Ratio Lower Upper
63 100
106 0.0 25.3 37.9#

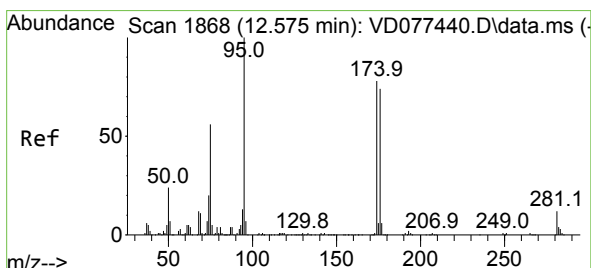
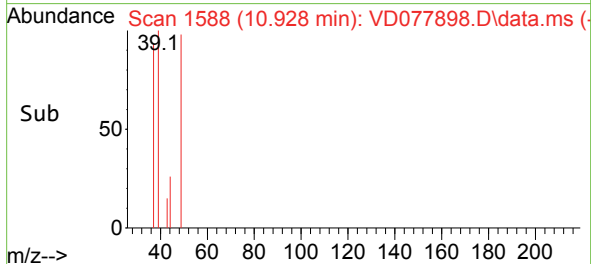
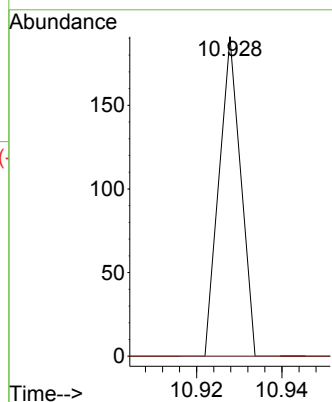
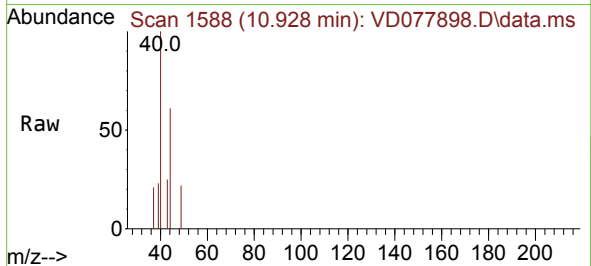




#59
2-Hexanone
Concen: 1.413 ug/l
RT: 10.928 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

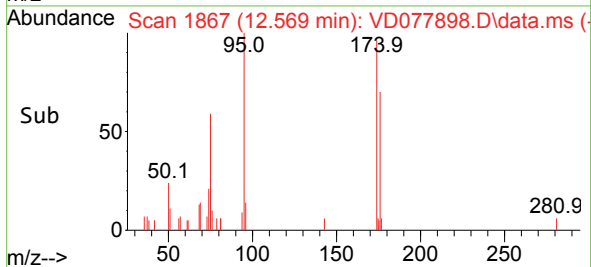
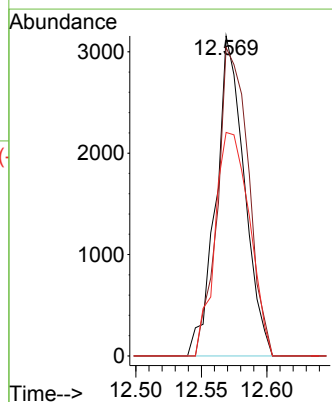
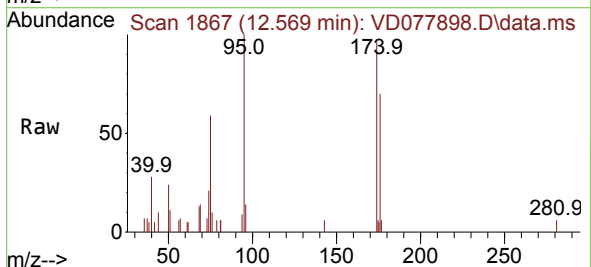
Instrument :
MSVOA_D
ClientSampleId :

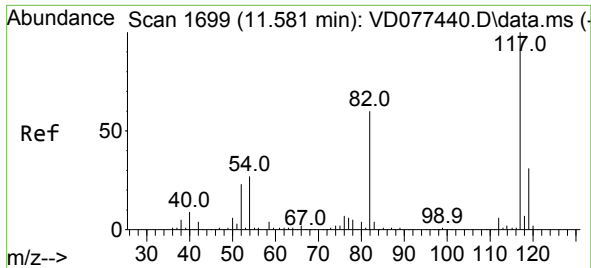
Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#



#62
4-Bromofluorobenzene
Concen: 39.160 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Tgt Ion: 95 Resp: 4737
Ion Ratio Lower Upper
95 100
174 104.8 0.0 201.8
176 85.4 0.0 191.8

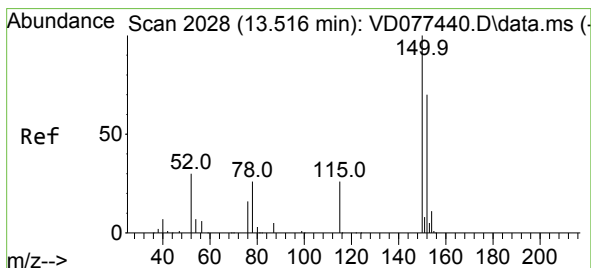
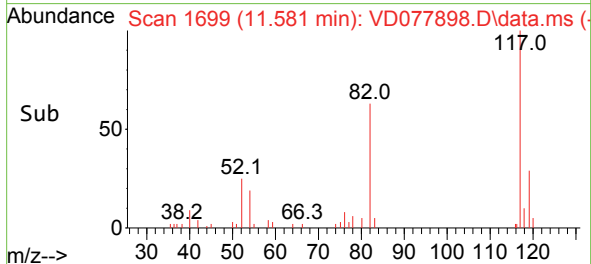
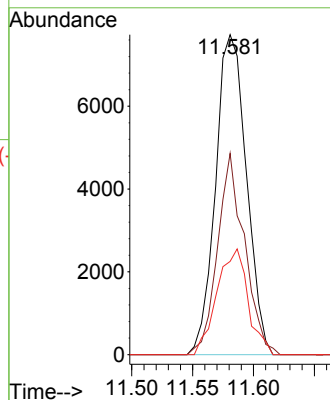
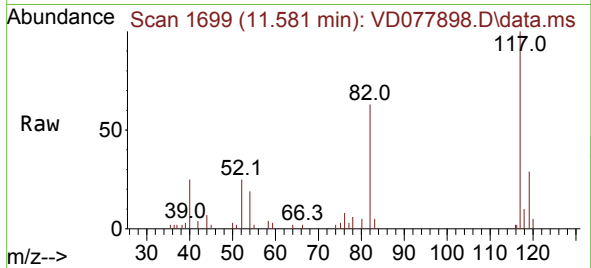




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

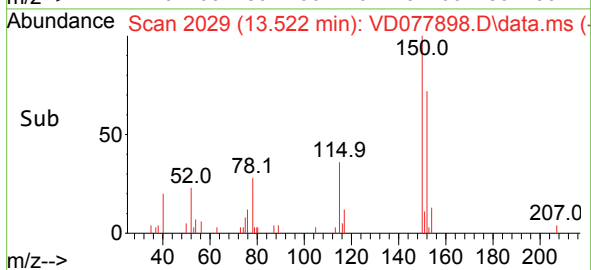
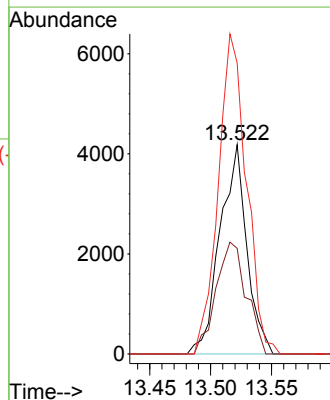
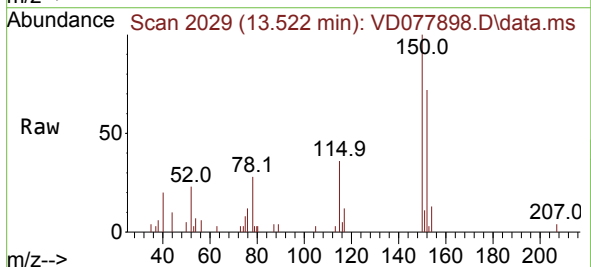
Instrument :
MSVOA_D
ClientSampleId :

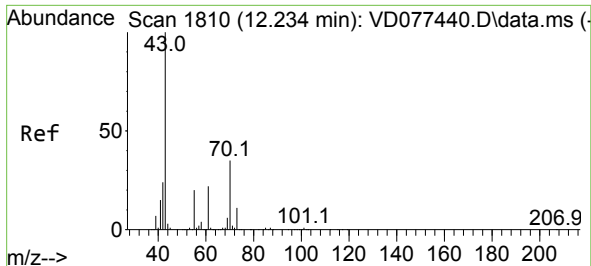
Tgt Ion:117 Resp: 13617
Ion Ratio Lower Upper
117 100
82 62.9 38.3 57.5#
119 29.2 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2029
Delta R.T. 0.006 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

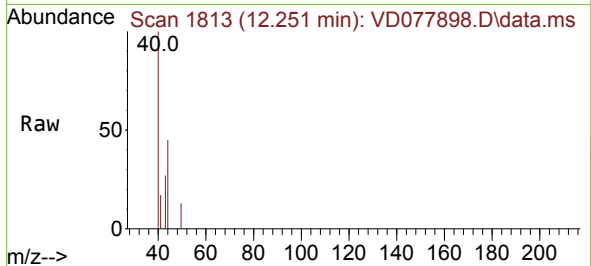
Tgt Ion:152 Resp: 6404
Ion Ratio Lower Upper
152 100
115 60.5 27.1 81.3
150 160.8 0.0 353.6



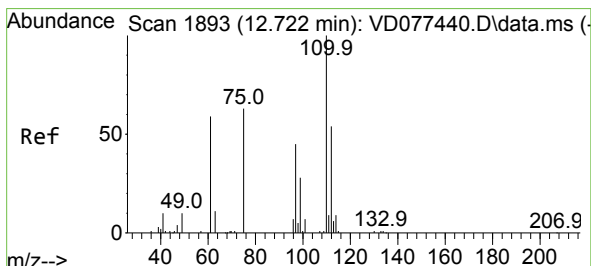
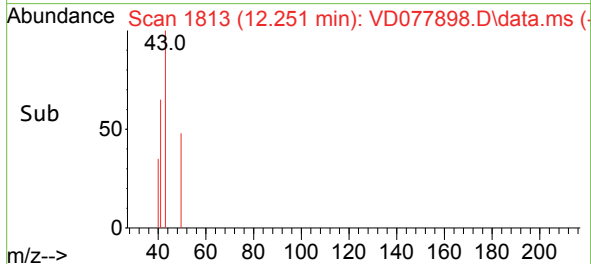
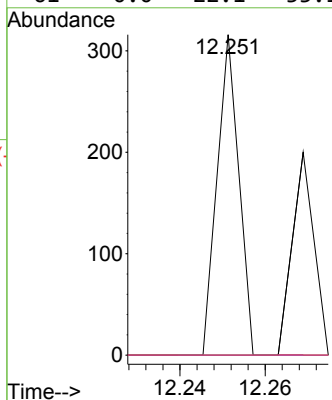


#74
N-amy1 acetate
Concen: 1.174 ug/l
RT: 12.251 min Scan# 1813
Delta R.T. 0.017 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Instrument :
MSVOA_D
ClientSampleId :

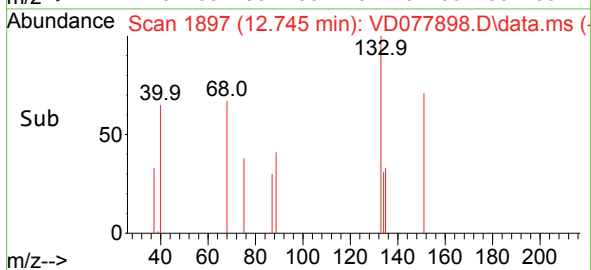
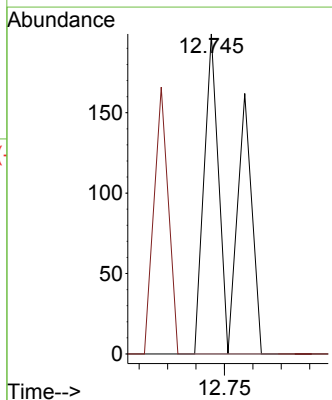
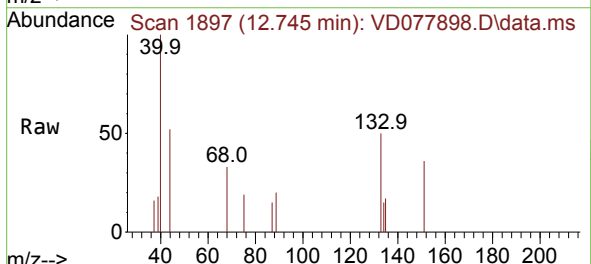


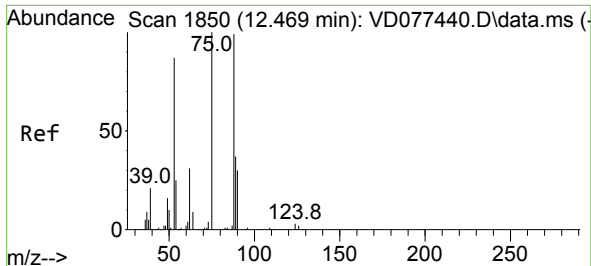
Tgt Ion: 43 Resp: 112
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 0.0 23.8 35.6#
61 0.0 22.1 33.1#



#76
1,2,3-Trichloropropane
Concen: 2.283 ug/l
RT: 12.745 min Scan# 1897
Delta R.T. 0.023 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Tgt Ion: 75 Resp: 127
Ion Ratio Lower Upper
75 100
77 46.5 0.0 0.0#

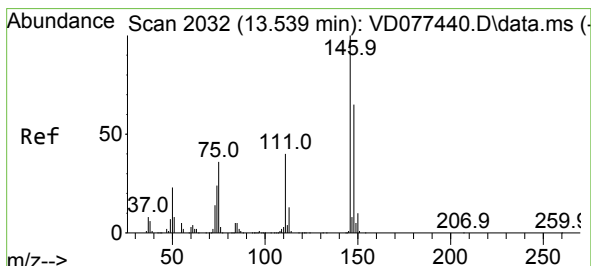
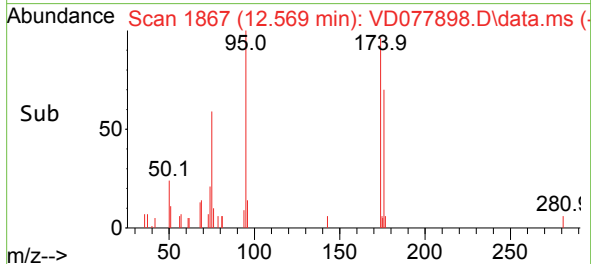
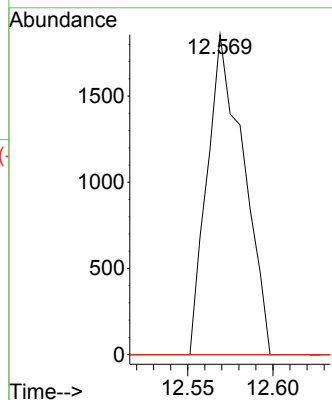
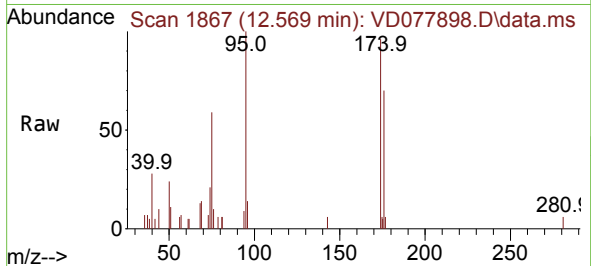




#81
trans-1,4-Dichloro-2-butene
Concen: 99.994 ug/l
RT: 12.569 min Scan# 1850
Delta R.T. 0.100 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 2745
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: 13.528 min Scan# 2030
Delta R.T. -0.011 min
Lab File: VD077898.D
Acq: 15 Dec 2023 12:47

Tgt Ion:146 Resp: 124
Ion Ratio Lower Upper
146 100
111 50.0 17.4 52.3
148 0.0 31.7 95.1#

