

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121223\
 Data File : VD077823.D
 Acq On : 11 Dec 2023 20:37
 Operator : JC/SY
 Sample : 05628-03
 Misc : 5.07G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 12 00:52:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 08 13:33:18 2023
 Response via : Initial Calibration

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

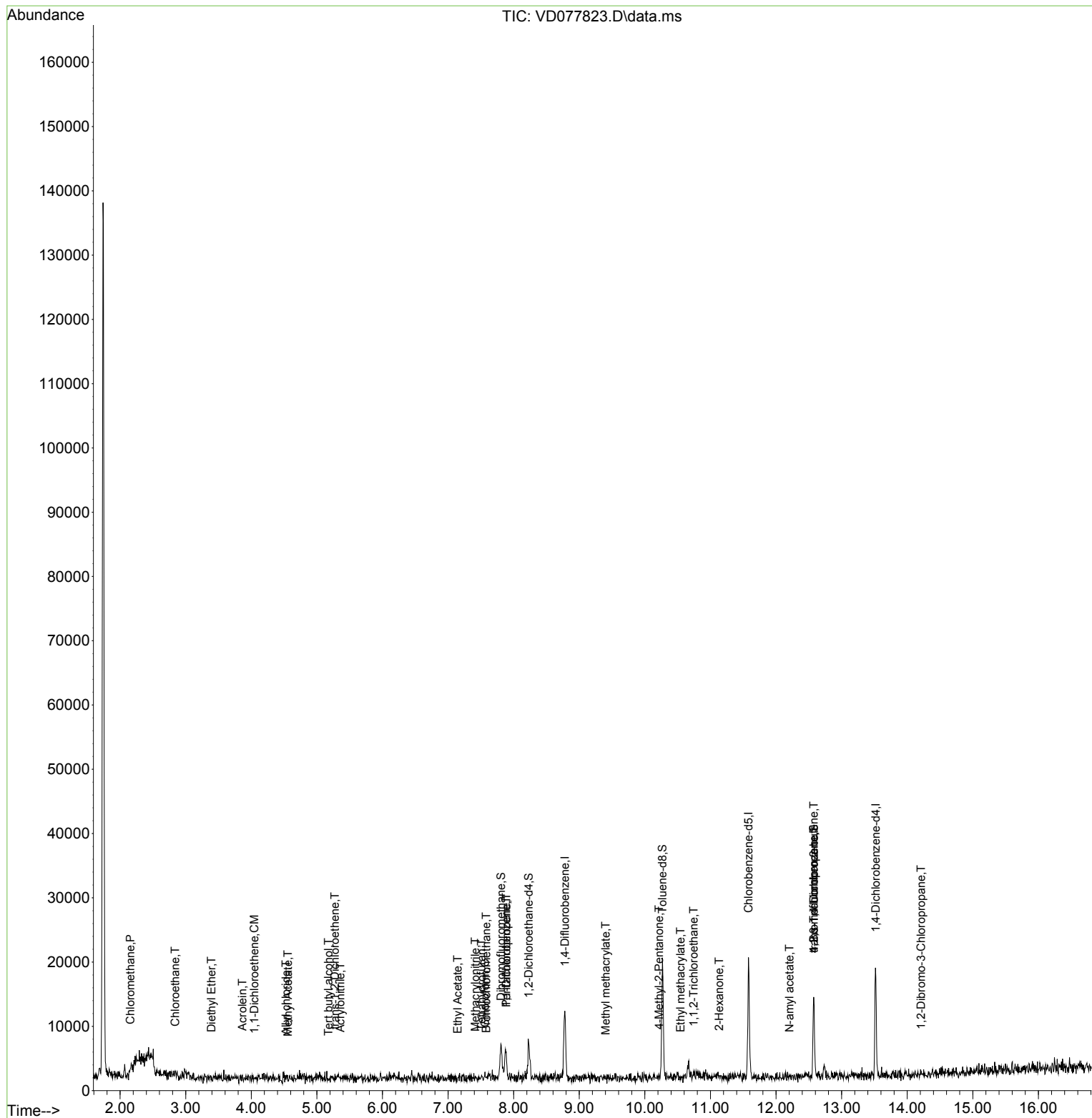
Internal Standards						
1) Pentafluorobenzene	7.887	168	3764	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.781	114	9932	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	10316	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	4529	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	4027	90.794	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	181.580%#
35) Dibromofluoromethane	7.810	113	3781	54.348	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	108.700%
50) Toluene-d8	10.269	98	11904	42.722	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.440%
62) 4-Bromofluorobenzene	12.575	95	3680	44.175	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	88.340%
Target Compounds						
						Qvalue
3) Chloromethane	2.158	50	299	4.665	ug/l #	41
6) Chloroethane	2.840	64	371	6.254	ug/l #	43
8) Diethyl Ether	3.393	74	57	2.533	ug/l #	12
11) Tert butyl alcohol	5.175	59	56	15.652	ug/l #	73
12) 1,1-Dichloroethene	4.046	96	55	1.216	ug/l #	1
13) Acrolein	3.863	56	66	14.067	ug/l #	15
14) Allyl chloride	4.528	41	77	1.237	ug/l #	1
15) Acrylonitrile	5.358	53	116	12.041	ug/l #	18
16) Acetone	4.034	43	78	Below Cal	#	32
18) Methyl Acetate	4.558	43	116	3.321	ug/l #	42
20) Methylene Chloride	4.805	84	63	Below Cal	#	8
21) trans-1,2-Dichloroethene	5.275	96	68	1.327	ug/l #	4
25) 2-Butanone	7.087	43	84	Below Cal	#	37
28) Bromochloromethane	7.581	49	61	1.714	ug/l #	1
29) Tetrahydrofuran	7.510	42	64	9.061	ug/l #	30
30) Chloroform	7.563	83	132	1.498	ug/l	94
36) 1,1-Dichloropropene	7.887	75	287	2.579	ug/l #	39
37) Ethyl Acetate	7.146	43	59	1.360	ug/l #	62
41) Methacrylonitrile	7.416	41	60	2.721	ug/l #	9
48) Methyl methacrylate	9.404	41	65	1.482	ug/l #	7
51) 4-Methyl-2-Pentanone	10.216	43	72	1.829	ug/l #	28
55) 1,1,2-Trichloroethane	10.745	97	57	1.026	ug/l #	16
56) Ethyl methacrylate	10.545	69	54	1.102	ug/l #	1
59) 2-Hexanone	11.134	43	131	4.011	ug/l	71
65) Chlorobenzene	11.598	112	55	Below Cal	#	43
74) N-amyl acetate	12.204	43	136	2.016	ug/l #	35
76) 1,2,3-Trichloropropane	12.575	75	2129	54.125	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	2129	109.662	ug/l #	20
88) 1,4-Dichlorobenzene	13.545	146	151	Below Cal	#	26
92) 1,2-Dibromo-3-Chloropr...	14.210	75	63	6.412	ug/l #	1

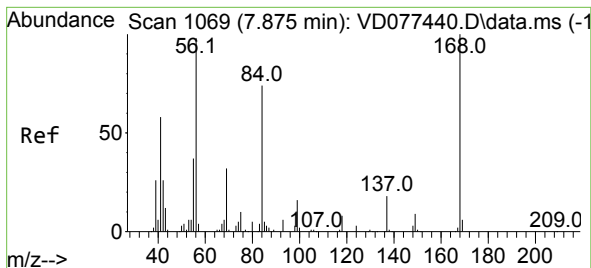
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 00:52:23 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 08 13:33:18 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.887 min Scan# 10

Delta R.T. 0.012 min

Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

Instrument :

MSVOA_D

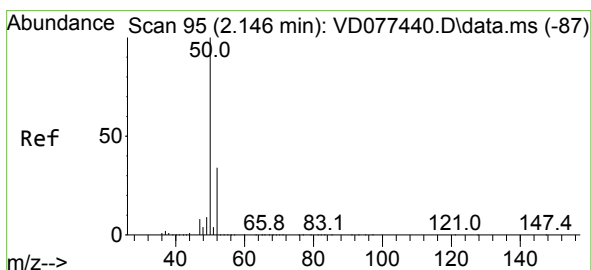
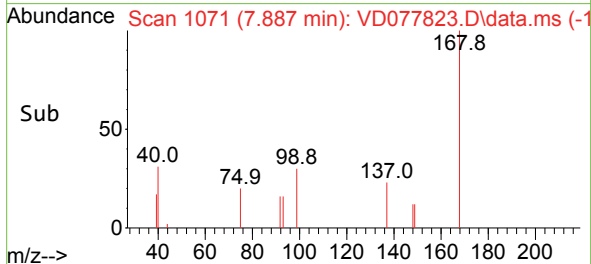
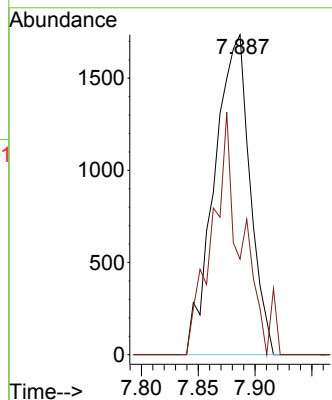
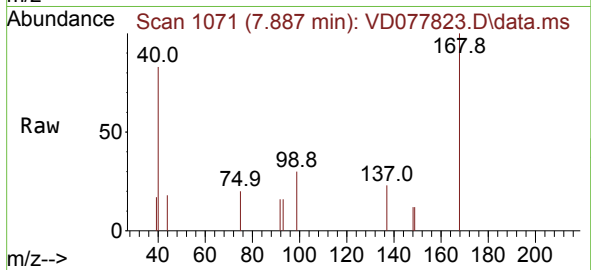
ClientSampleId :

Tgt Ion:168 Resp: 3764

Ion Ratio Lower Upper

168 100

99 29.9 36.7 55.1#



#3

Chloromethane

Concen: 4.665 ug/l

RT: 2.158 min Scan# 97

Delta R.T. 0.012 min

Lab File: VD077823.D

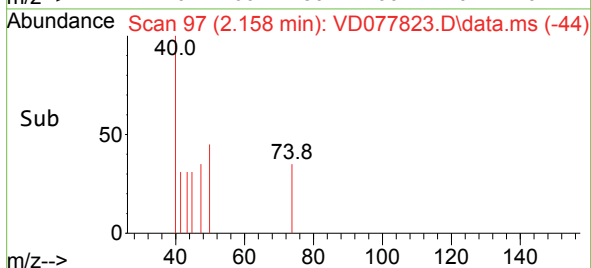
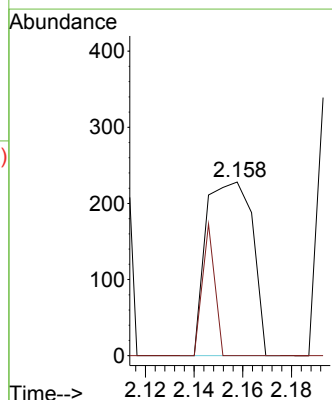
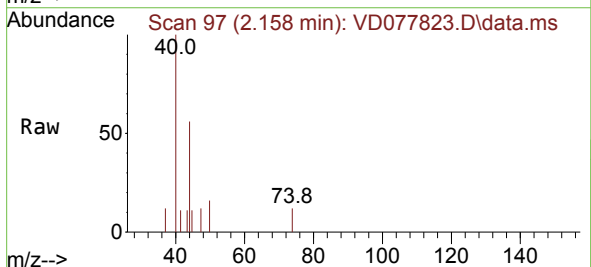
Acq: 11 Dec 2023 20:37

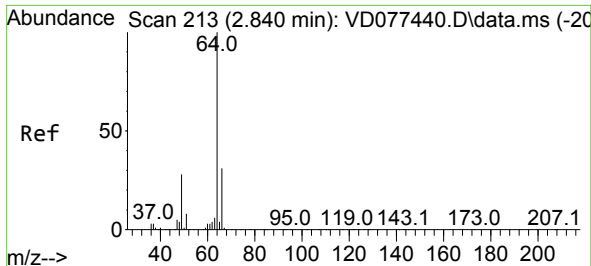
Tgt Ion: 50 Resp: 299

Ion Ratio Lower Upper

50 100

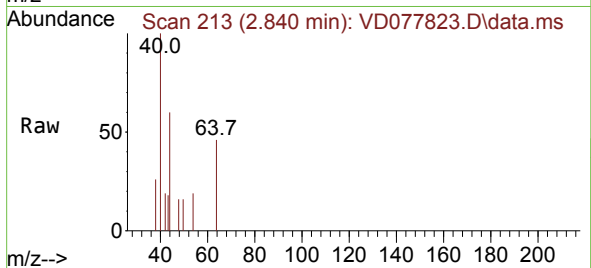
52 0.0 26.6 40.0#



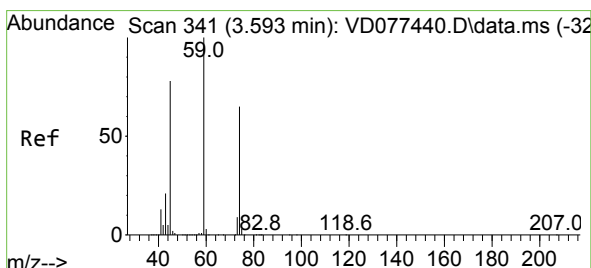
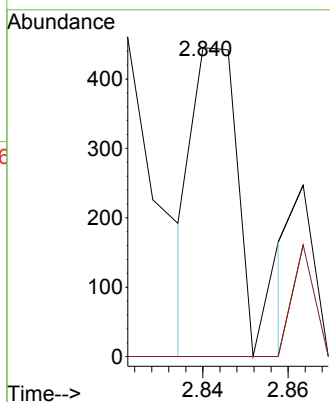
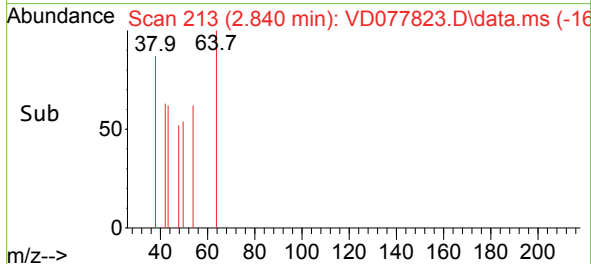


#6
Chloroethane
Concen: 6.254 ug/l
RT: 2.840 min Scan# 213
Delta R.T. 0.000 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Instrument :
MSVOA_D
ClientSampleId :

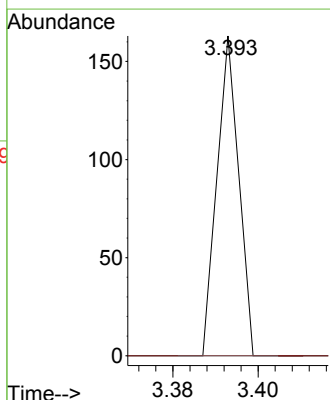
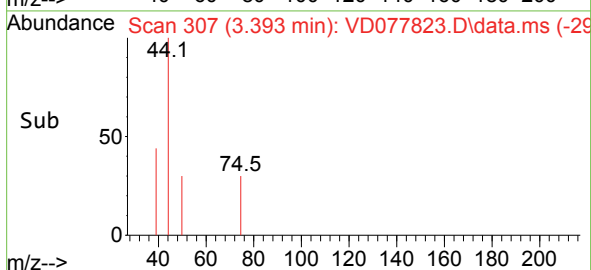
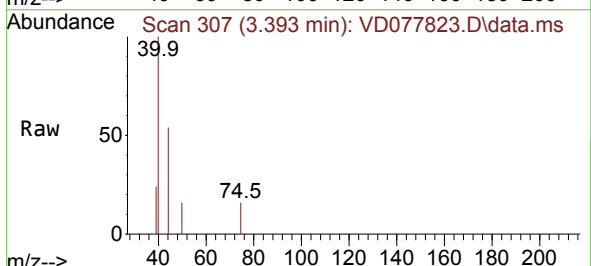


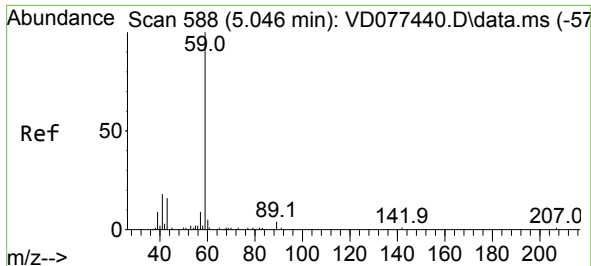
Tgt Ion: 64 Resp: 371
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



#8
Diethyl Ether
Concen: 2.533 ug/l
RT: 3.393 min Scan# 307
Delta R.T. -0.200 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Tgt Ion: 74 Resp: 57
Ion Ratio Lower Upper
74 100
45 0.0 37.5 112.7#





#11

Tert butyl alcohol

Concen: 15.652 ug/l

RT: 5.175 min Scan# 61

Delta R.T. 0.129 min

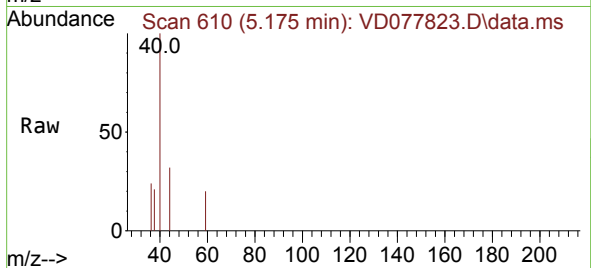
Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

Instrument :

MSVOA_D

ClientSampleId :

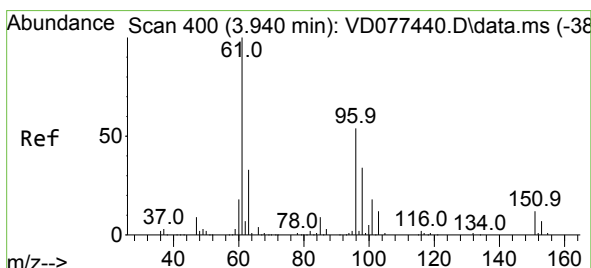
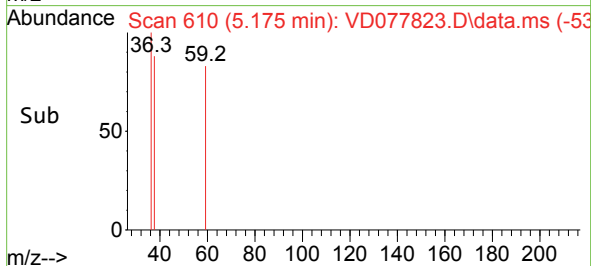
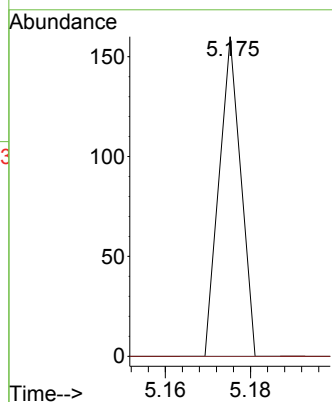


Tgt Ion: 59 Resp: 56

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#12

1,1-Dichloroethene

Concen: 1.216 ug/l

RT: 4.046 min Scan# 418

Delta R.T. 0.106 min

Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

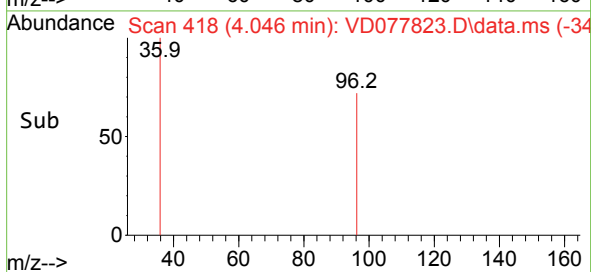
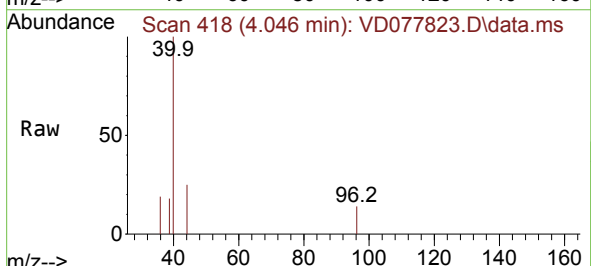
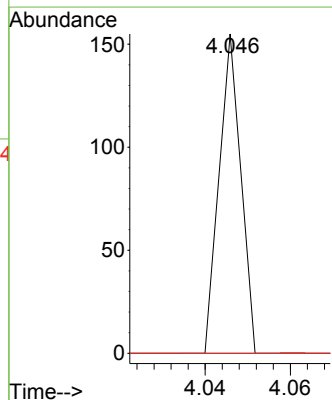
Tgt Ion: 96 Resp: 55

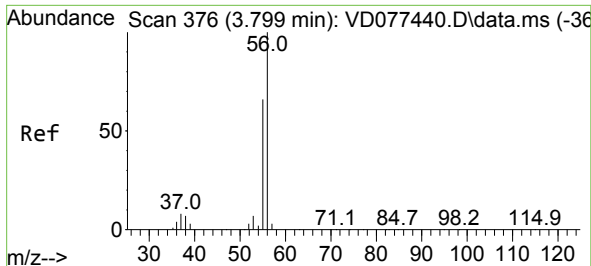
Ion Ratio Lower Upper

96 100

61 0.0 100.6 150.8#

98 0.0 50.2 75.2#





#13

Acrolein

Concen: 14.067 ug/l

RT: 3.863 min Scan# 31

Delta R.T. 0.064 min

Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

Instrument :

MSVOA_D

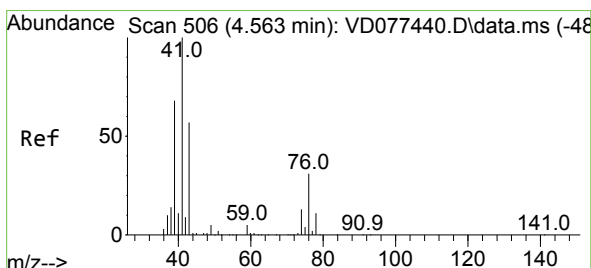
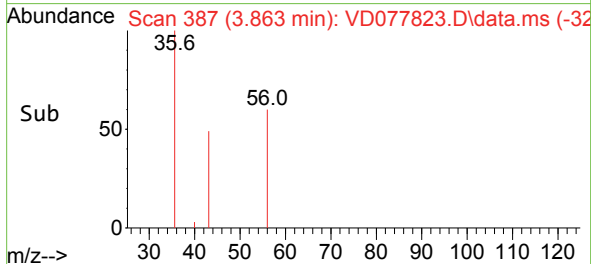
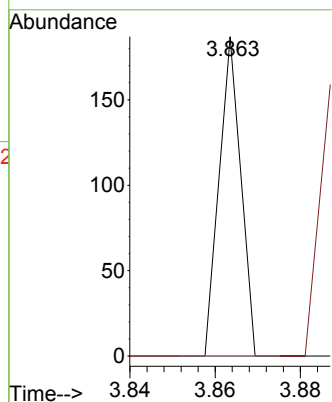
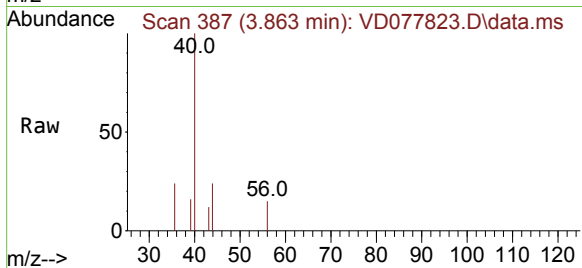
ClientSampleId :

Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

55 0.0 55.1 82.7#



#14

Allyl chloride

Concen: 1.237 ug/l

RT: 4.528 min Scan# 500

Delta R.T. -0.035 min

Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

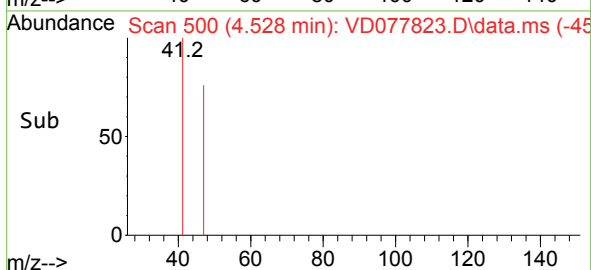
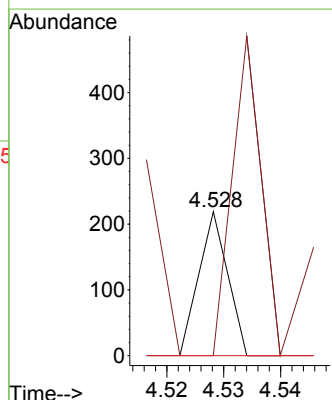
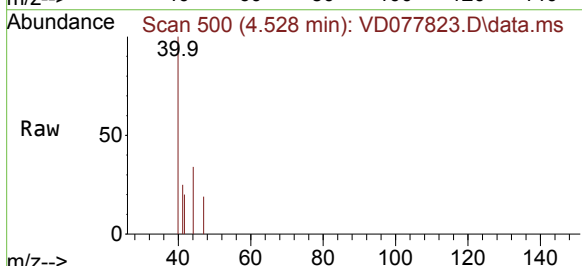
Tgt Ion: 41 Resp: 77

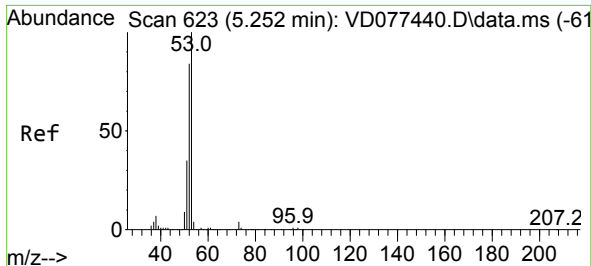
Ion Ratio Lower Upper

41 100

39 371.4 53.8 80.6#

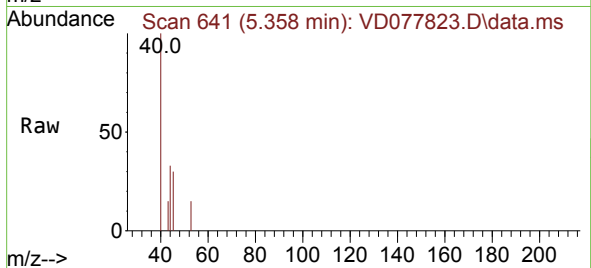
76 0.0 45.8 68.8#



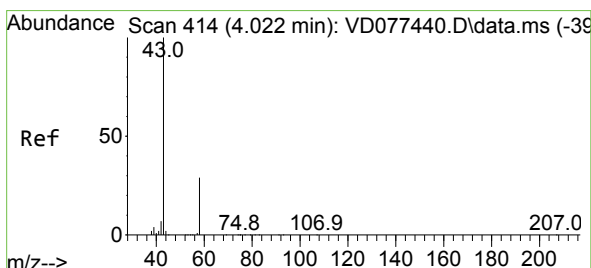
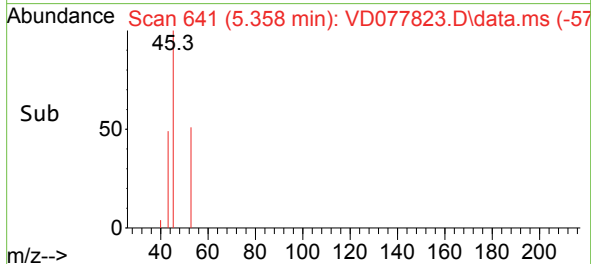
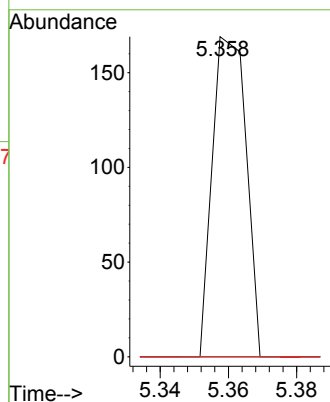


#15
Acrylonitrile
Concen: 12.041 ug/l
RT: 5.358 min Scan# 641
Delta R.T. 0.106 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Instrument :
MSVOA_D
ClientSampleId :

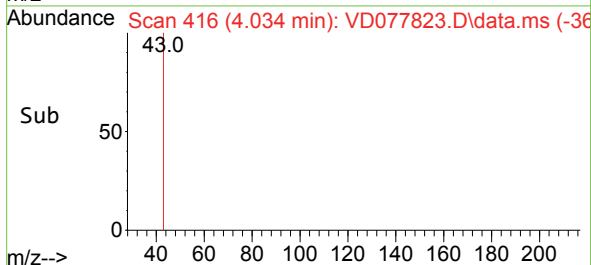
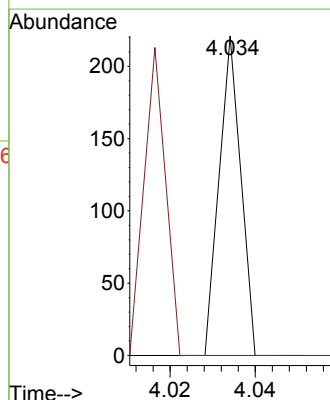
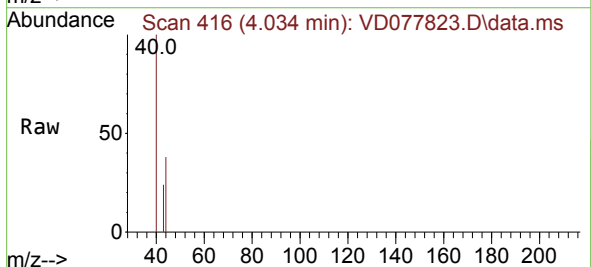


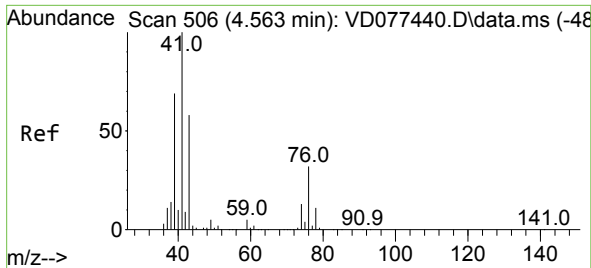
Tgt Ion: 53 Resp: 116
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 0.0 28.3 42.5#



#16
Acetone
Concen: Below Cal
RT: 4.034 min Scan# 416
Delta R.T. 0.012 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Tgt Ion: 43 Resp: 78
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#

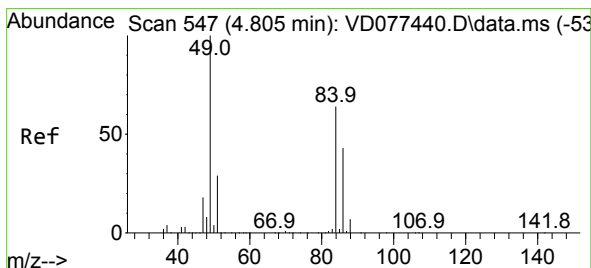
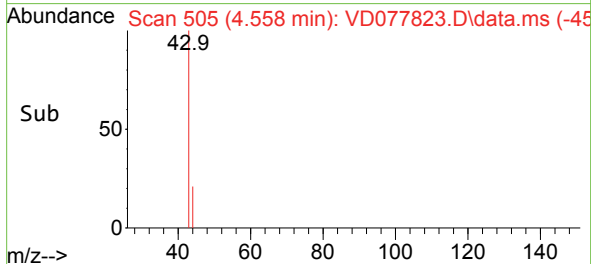
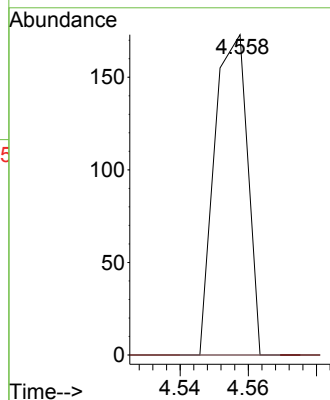
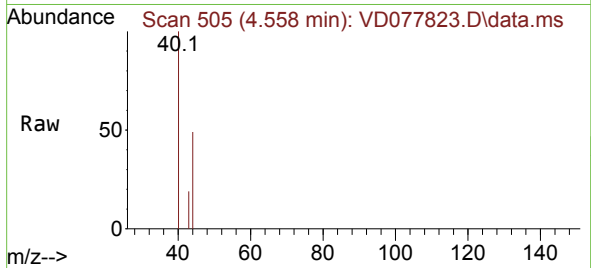




#18
Methyl Acetate
Concen: 3.321 ug/l
RT: 4.558 min Scan# 506
Delta R.T. -0.005 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

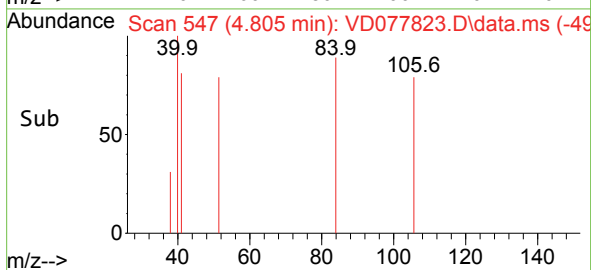
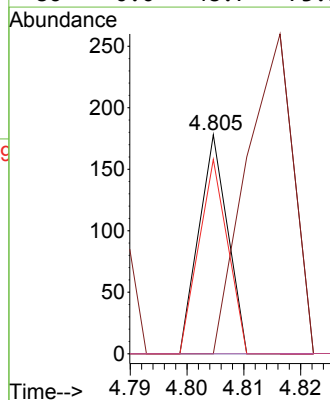
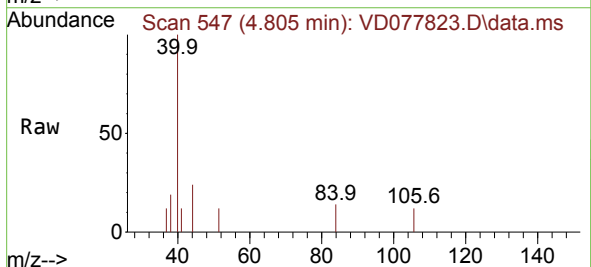
Instrument :
MSVOA_D
ClientSampleId :

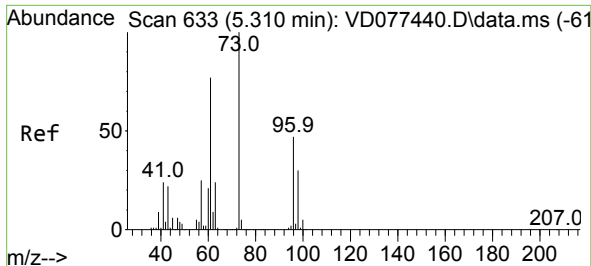
Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.805 min Scan# 547
Delta R.T. -0.000 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

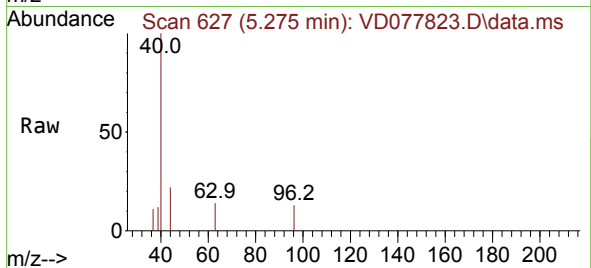
Tgt Ion: 84 Resp: 63
Ion Ratio Lower Upper
84 100
49 0.0 71.4 107.2#
51 88.8 24.5 36.7#
86 0.0 48.7 73.1#



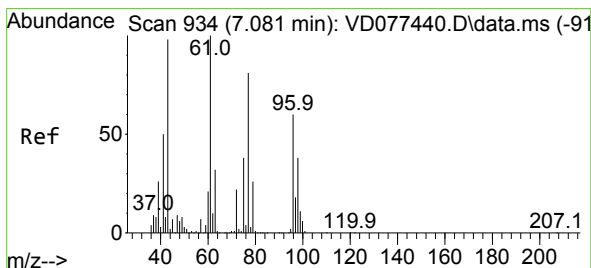
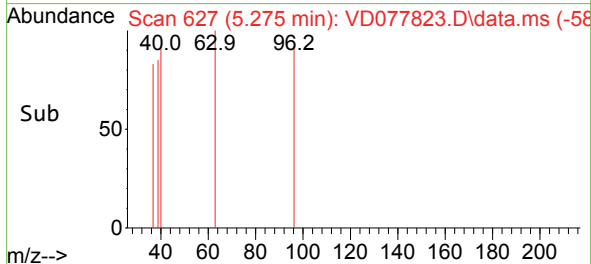
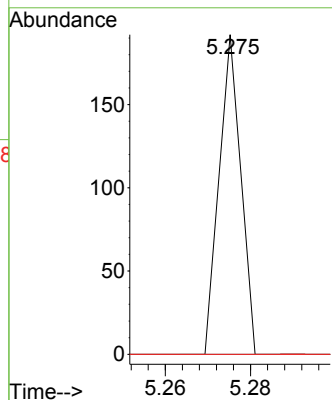


#21
trans-1,2-Dichloroethene
Concen: 1.327 ug/l
RT: 5.275 min Scan# 61
Delta R.T. -0.035 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Instrument :
MSVOA_D
ClientSampleId :

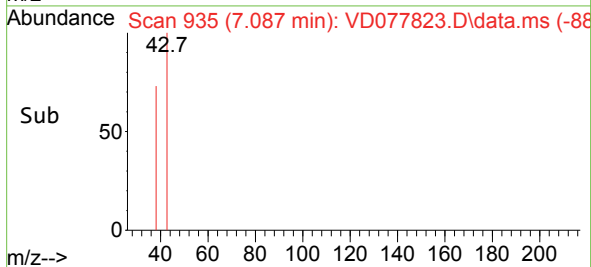
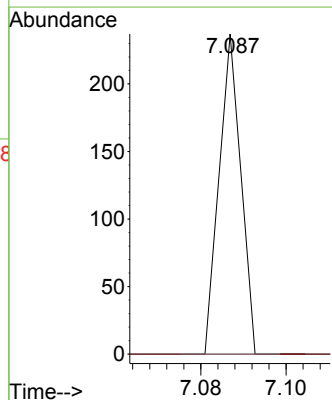
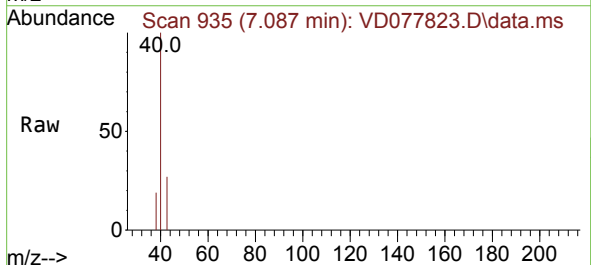


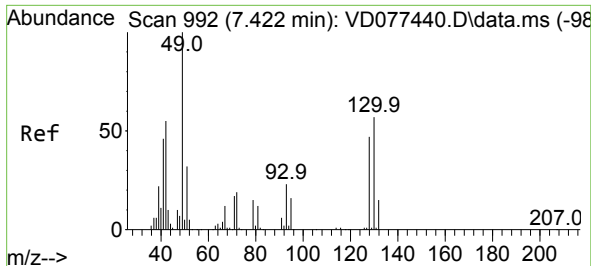
Tgt Ion: 96 Resp: 68
Ion Ratio Lower Upper
96 100
61 0.0 89.3 133.9#
98 0.0 48.6 73.0#



#25
2-Butanone
Concen: Below Cal
RT: 7.087 min Scan# 935
Delta R.T. 0.006 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

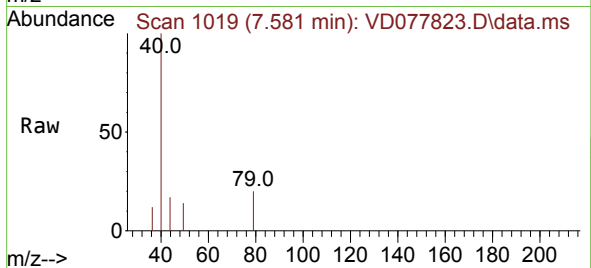
Tgt Ion: 43 Resp: 84
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



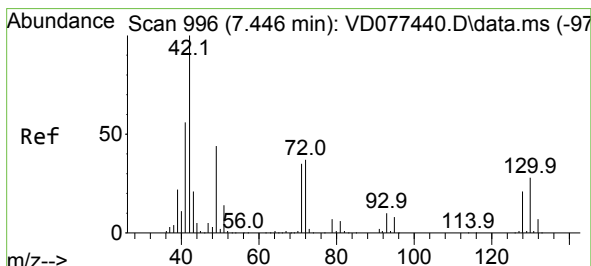
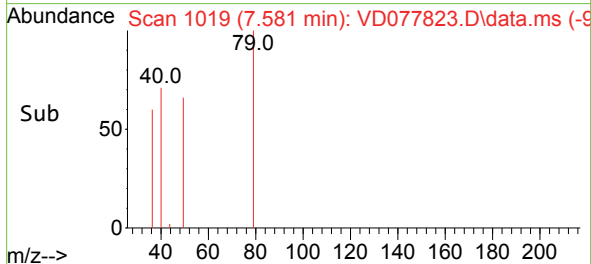
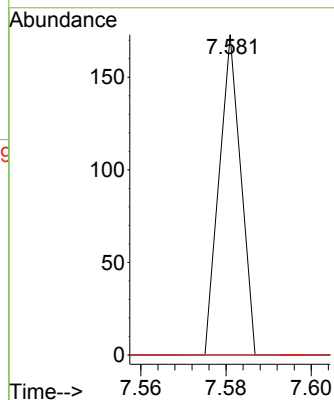


#28
Bromochloromethane
Concen: 1.714 ug/l
RT: 7.581 min Scan# 1019
Delta R.T. 0.159 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Instrument :
MSVOA_D
ClientSampleId :

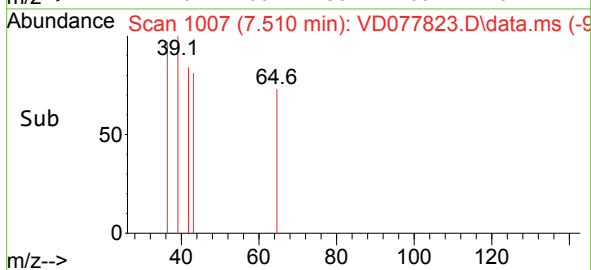
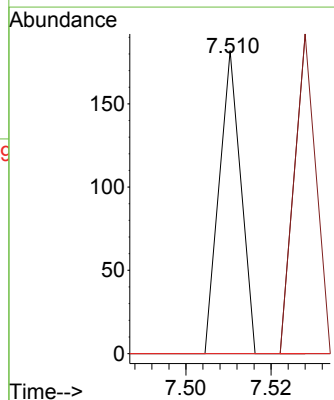
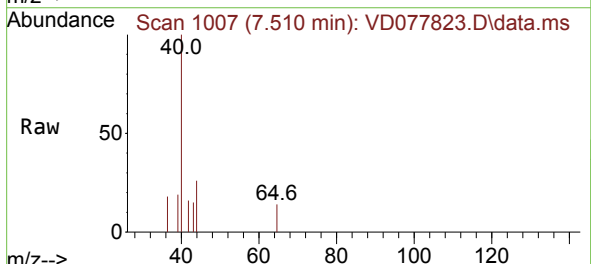


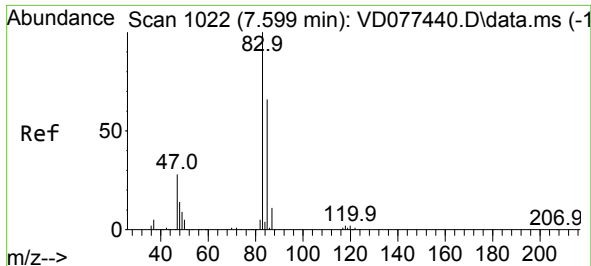
Tgt Ion: 49 Resp: 61
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.0
130 0.0 83.2 124.8#



#29
Tetrahydrofuran
Concen: 9.061 ug/l
RT: 7.510 min Scan# 1007
Delta R.T. 0.064 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Tgt Ion: 42 Resp: 64
Ion Ratio Lower Upper
42 100
72 106.3 46.5 69.7#
71 0.0 44.5 66.7#





#30

Chloroform

Concen: 1.498 ug/l

RT: 7.563 min Scan# 1016

Delta R.T. -0.036 min

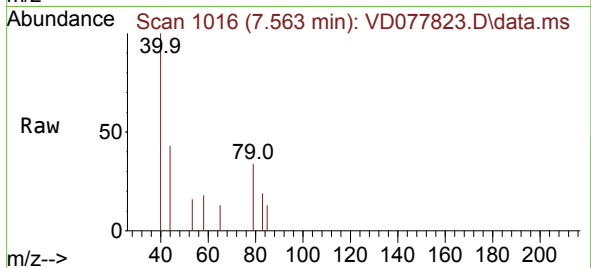
Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

Instrument :

MSVOA_D

ClientSampleId :

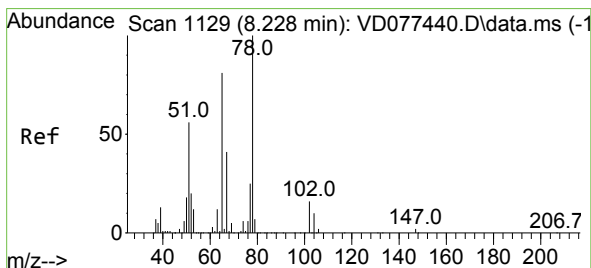
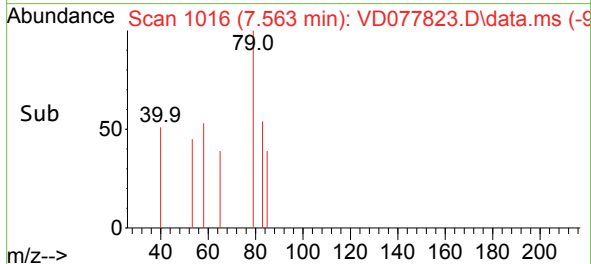
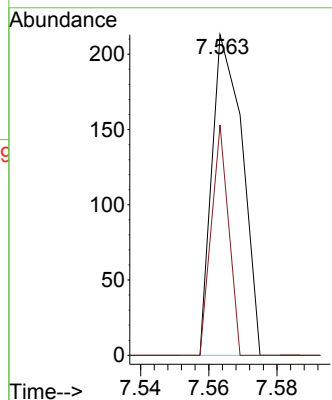


Tgt Ion: 83 Resp: 132

Ion Ratio Lower Upper

83 100

85 71.8 53.4 80.2



#33

1,2-Dichloroethane-d4

Concen: 90.794 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD077823.D

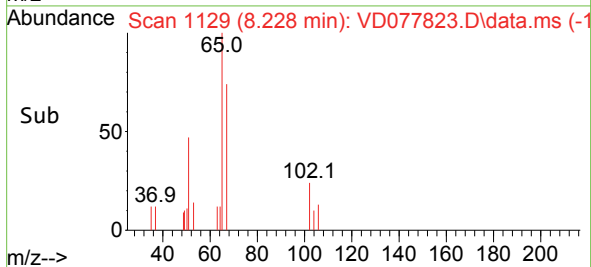
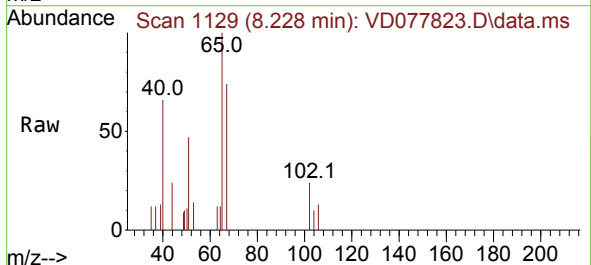
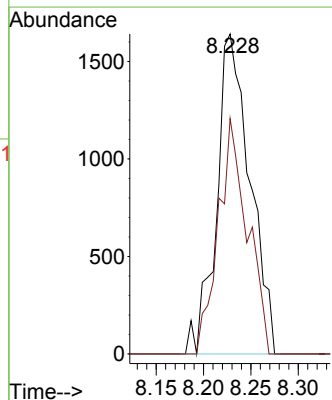
Acq: 11 Dec 2023 20:37

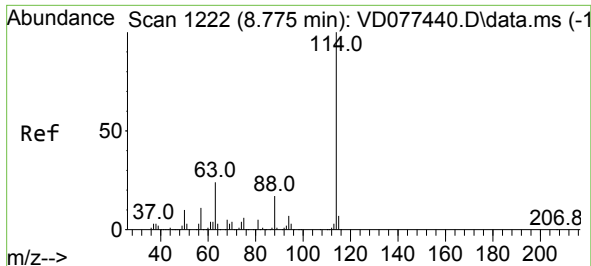
Tgt Ion: 65 Resp: 4027

Ion Ratio Lower Upper

65 100

67 64.2 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: VD077823.D

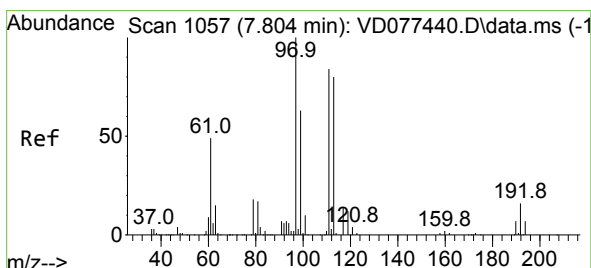
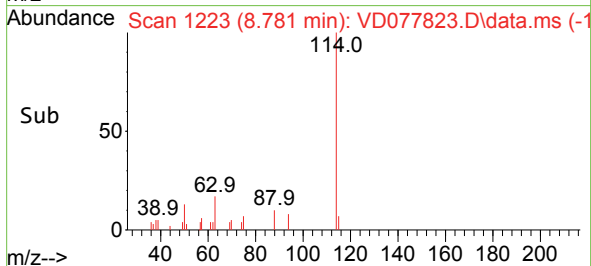
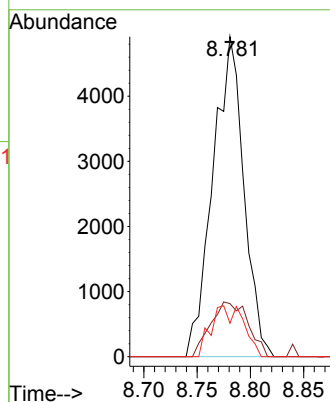
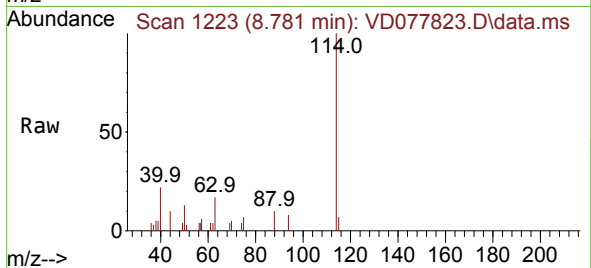
Acq: 11 Dec 2023 20:37

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:114	Resp:	9932
Ion	Ratio	Lower Upper
114	100	
63	16.6	0.0 33.4
88	10.5	0.0 26.2



#35

Dibromofluoromethane

Concen: 54.348 ug/l

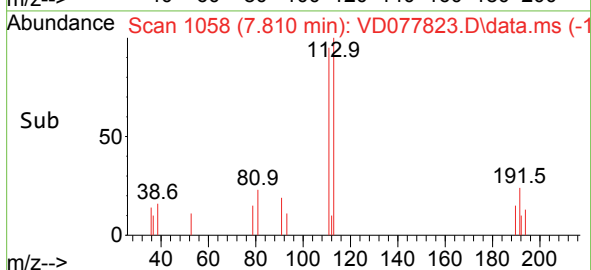
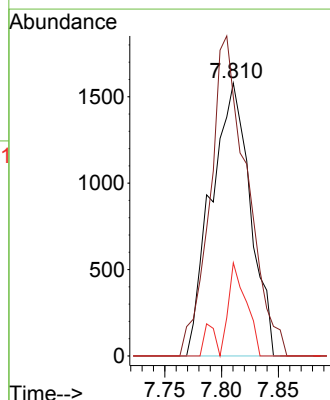
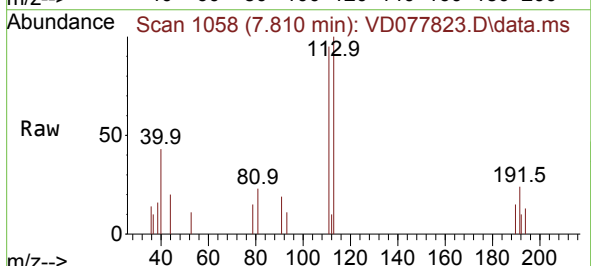
RT: 7.810 min Scan# 1058

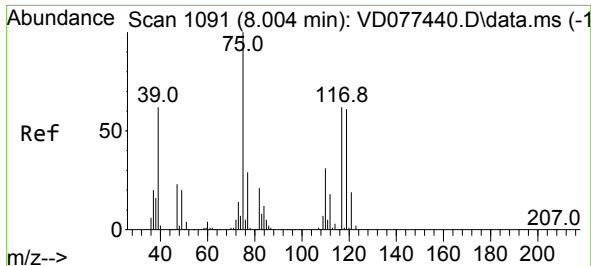
Delta R.T. 0.006 min

Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

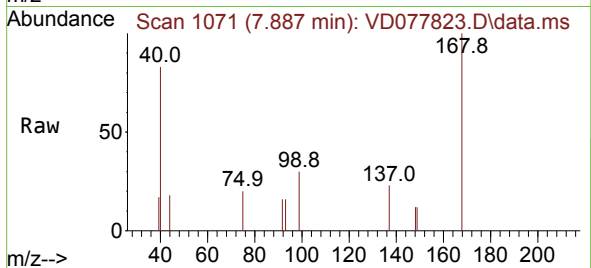
Tgt Ion:113	Resp:	3781
Ion	Ratio	Lower Upper
113	100	
111	111.2	84.7 127.1
192	18.8	16.8 25.2



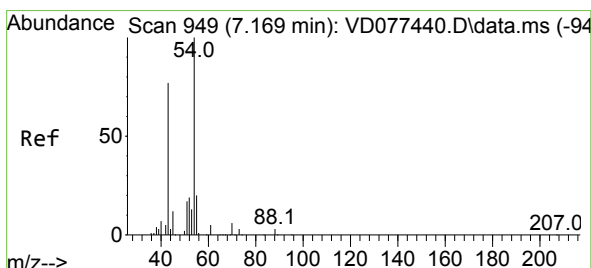
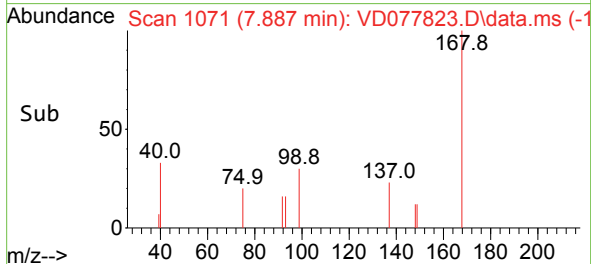
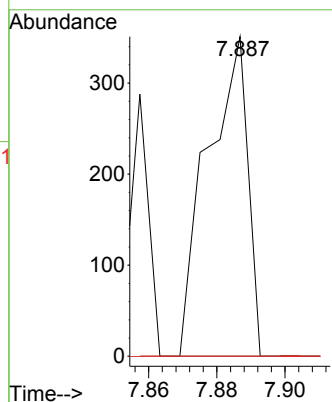


#36
1,1-Dichloropropene
Concen: 2.579 ug/l
RT: 7.887 min Scan# 1091
Delta R.T. -0.117 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Instrument :
MSVOA_D
ClientSampleId :

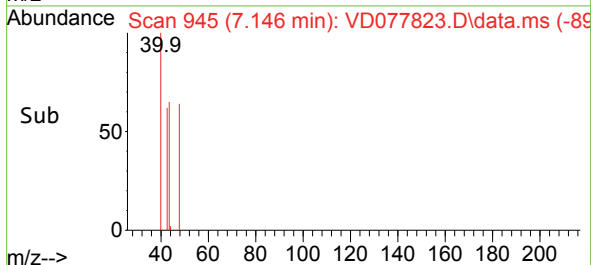
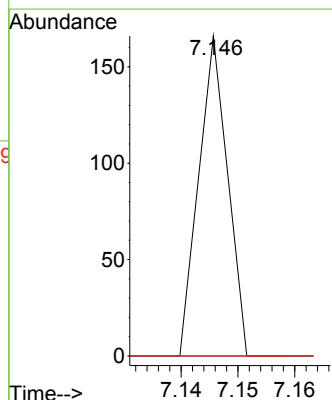
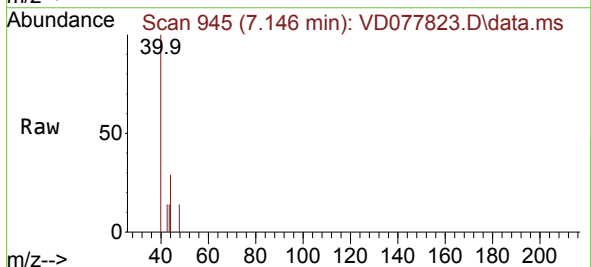


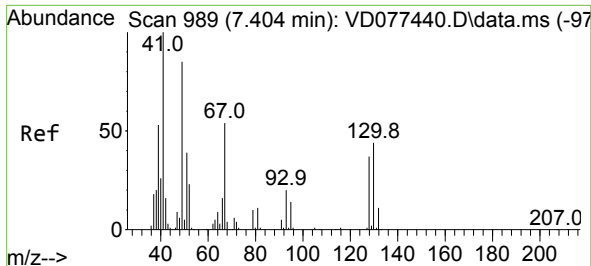
Tgt Ion: 75 Resp: 287
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 1.360 ug/l
RT: 7.146 min Scan# 945
Delta R.T. -0.023 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

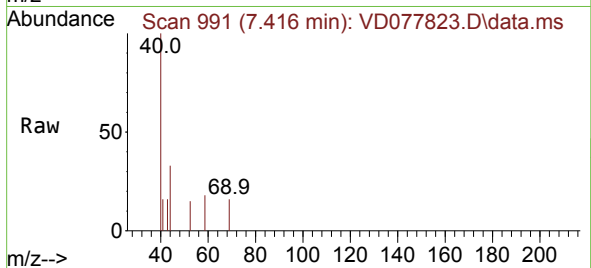
Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
70 0.0 10.0 15.0#



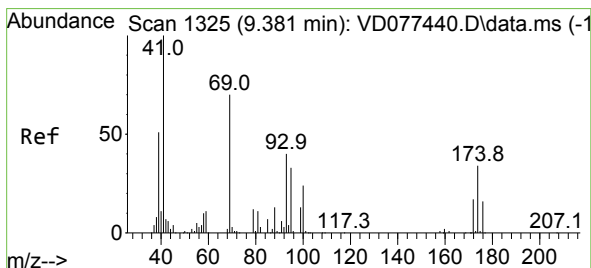
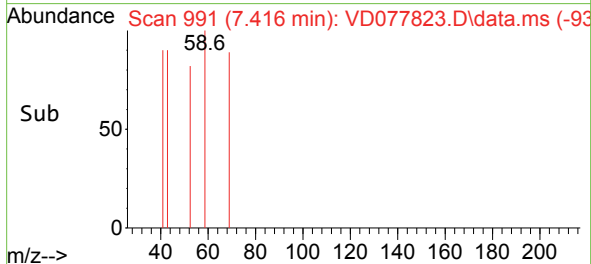
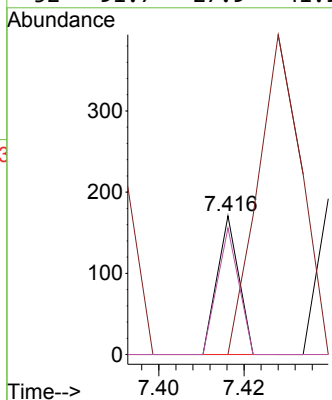


#41
Methacrylonitrile
Concen: 2.721 ug/l
RT: 7.416 min Scan# 91
Delta R.T. 0.012 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Instrument :
MSVOA_D
ClientSampleId :

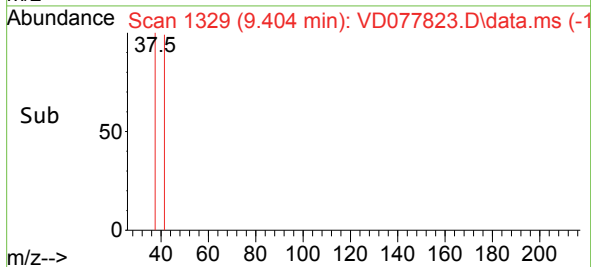
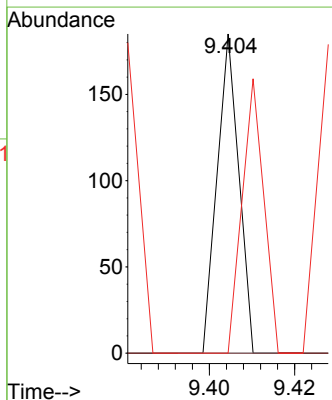
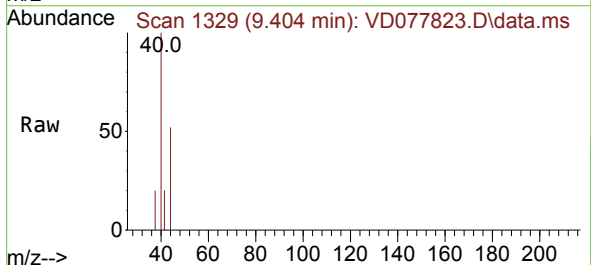


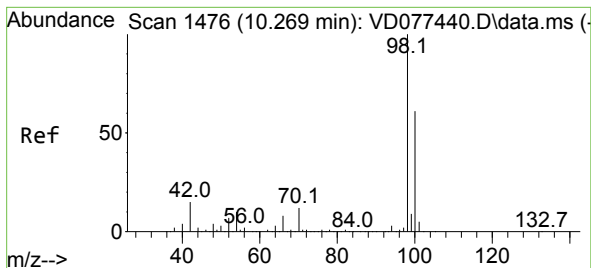
Tgt Ion:	41	Resp:	60
Ion	Ratio	Lower	Upper
41	100		
39	0.0	34.0	51.0#
67	0.0	77.0	115.4#
52	91.7	27.9	41.9#



#48
Methyl methacrylate
Concen: 1.482 ug/l
RT: 9.404 min Scan# 1329
Delta R.T. 0.023 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Tgt Ion:	41	Resp:	65
Ion	Ratio	Lower	Upper
41	100		
69	0.0	102.2	153.2#
39	86.2	41.4	62.2#





#50

Toluene-d8

Concen: 42.722 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

Instrument :

MSVOA_D

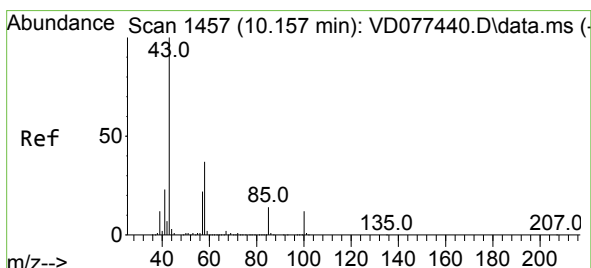
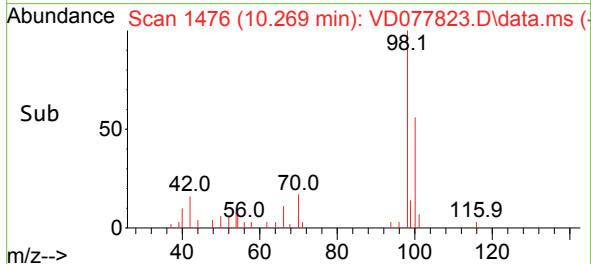
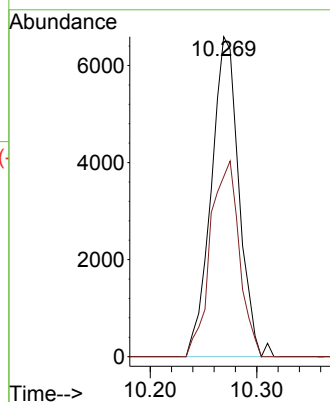
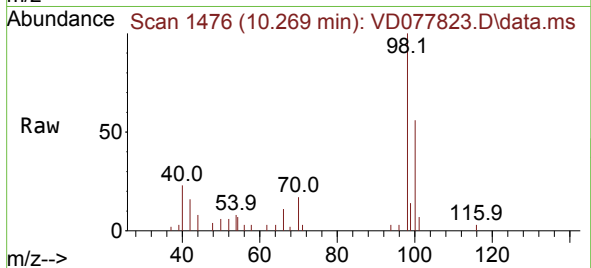
ClientSampleId :

Tgt Ion: 98 Resp: 11904

Ion Ratio Lower Upper

98 100

100 63.7 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.829 ug/l

RT: 10.216 min Scan# 1467

Delta R.T. 0.059 min

Lab File: VD077823.D

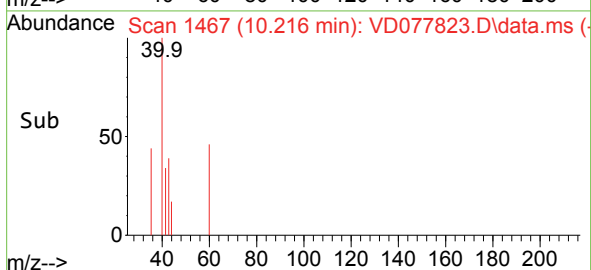
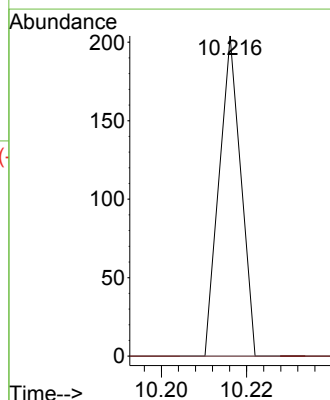
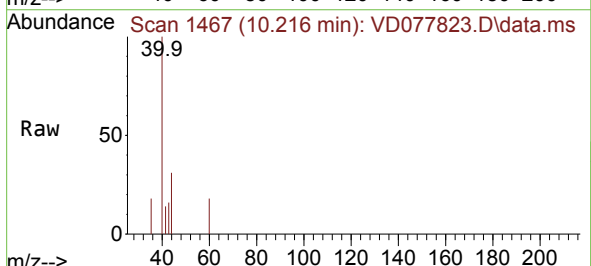
Acq: 11 Dec 2023 20:37

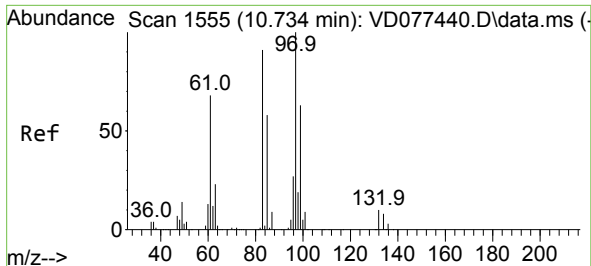
Tgt Ion: 43 Resp: 72

Ion Ratio Lower Upper

43 100

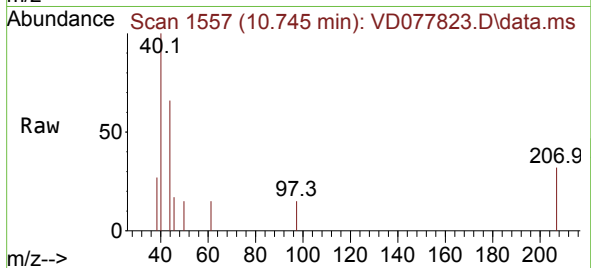
58 0.0 38.9 58.3#



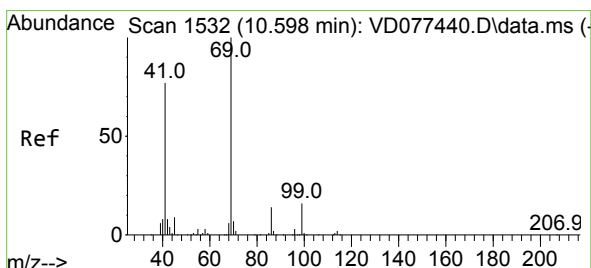
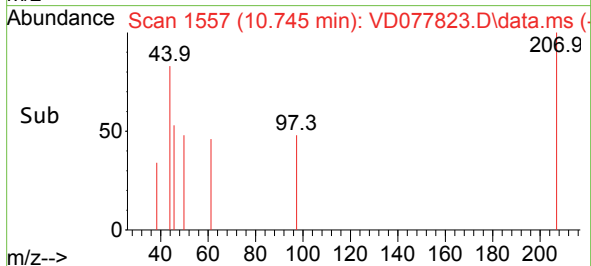
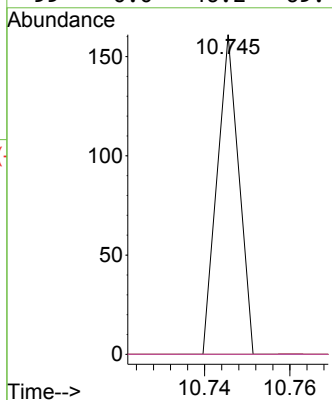


#55
1,1,2-Trichloroethane
Concen: 1.026 ug/l
RT: 10.745 min Scan# 1555
Delta R.T. 0.011 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Instrument :
MSVOA_D
ClientSampleId :

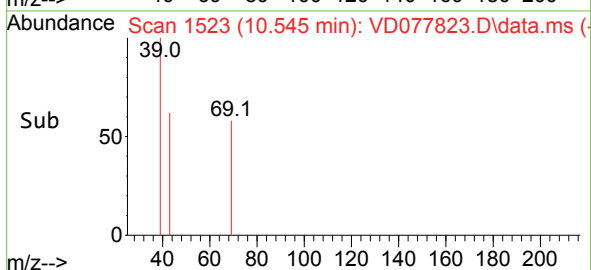
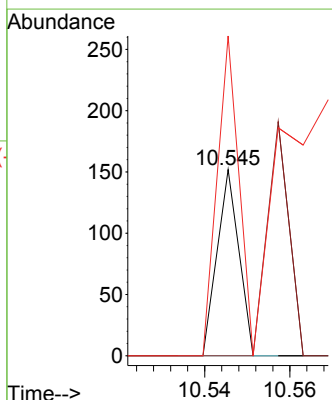
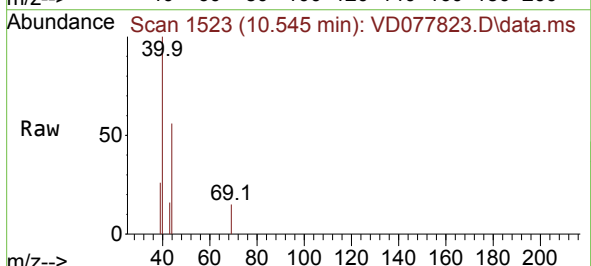


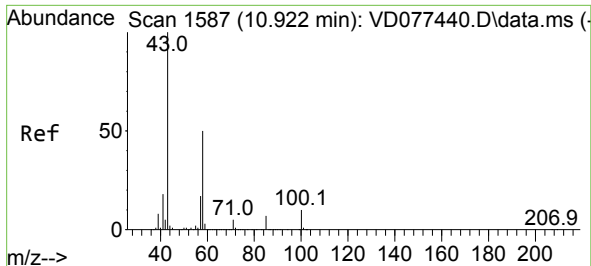
Tgt Ion: 97	Resp: 57
Ion Ratio	Lower Upper
97	100
83	0.0 65.8 98.6#
85	0.0 45.7 68.5#
99	0.0 46.2 69.4#



#56
Ethyl methacrylate
Concen: 1.102 ug/l
RT: 10.545 min Scan# 1523
Delta R.T. -0.053 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

Tgt Ion: 69	Resp: 54
Ion Ratio	Lower Upper
69	100
41	0.0 39.1 58.7#
39	170.4 20.0 30.0#

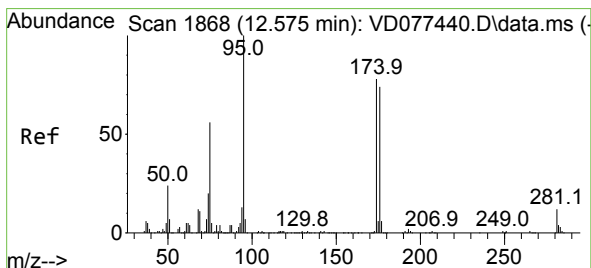
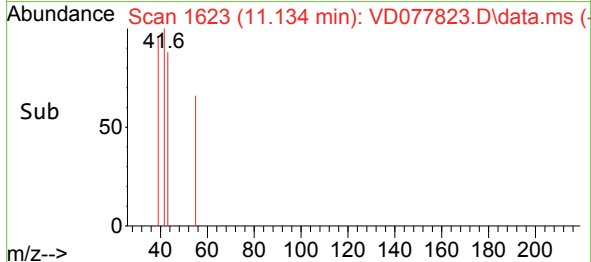
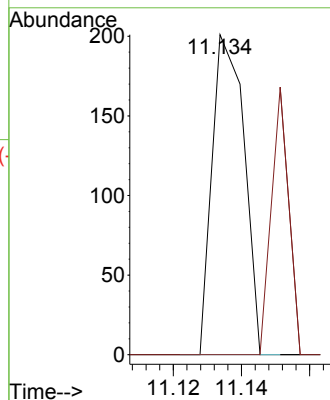
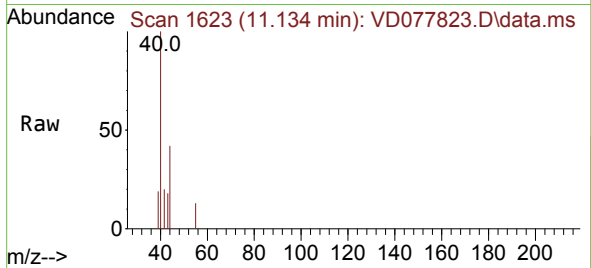




#59
2-Hexanone
Concen: 4.011 ug/l
RT: 11.134 min Scan# 1
Delta R.T. 0.212 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

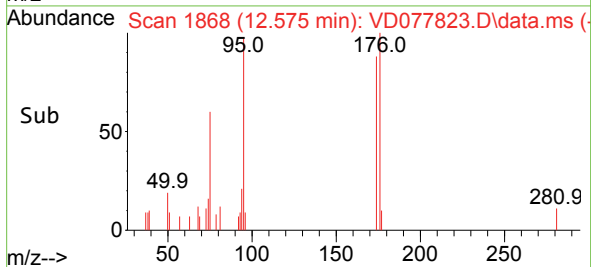
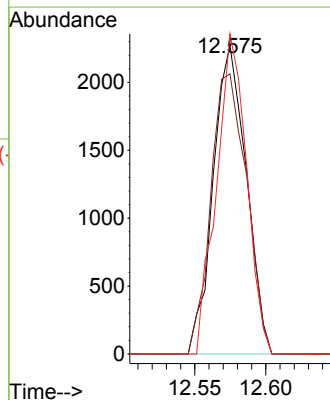
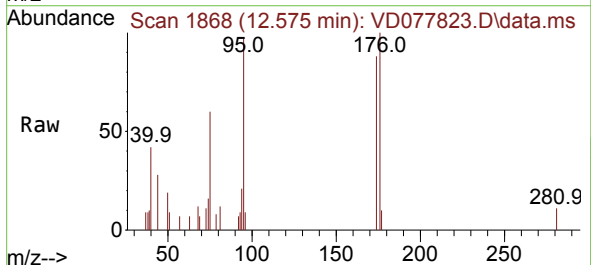
Instrument :
MSVOA_D
ClientSampleId :

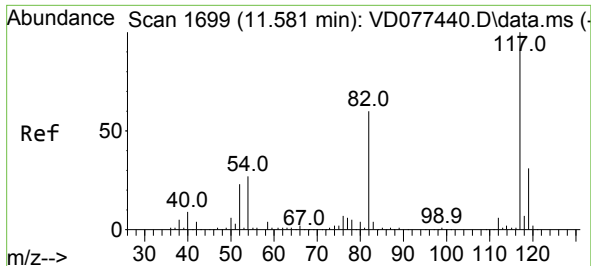
Tgt Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
58 45.0 34.1 102.2



#62
4-Bromofluorobenzene
Concen: 44.175 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

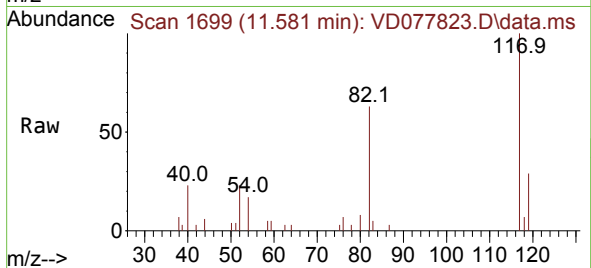
Tgt Ion: 95 Resp: 3680
Ion Ratio Lower Upper
95 100
174 98.4 0.0 201.8
176 94.4 0.0 191.8



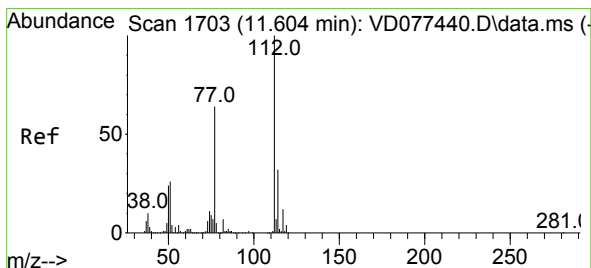
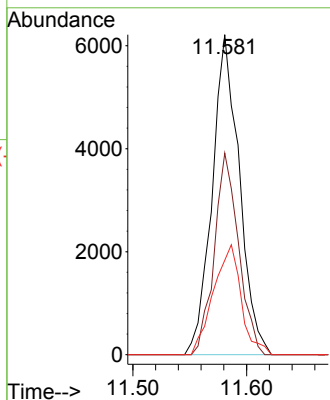
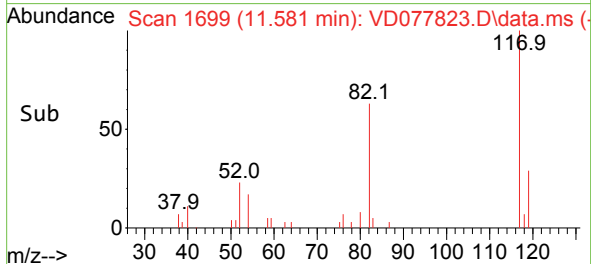


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

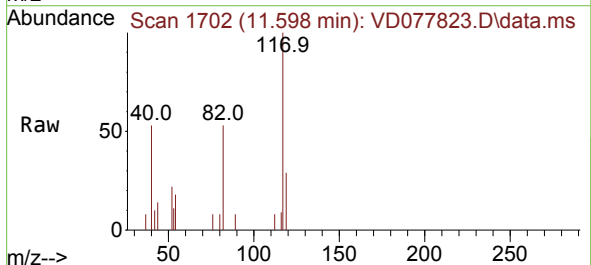
Instrument :
MSVOA_D
ClientSampleId :



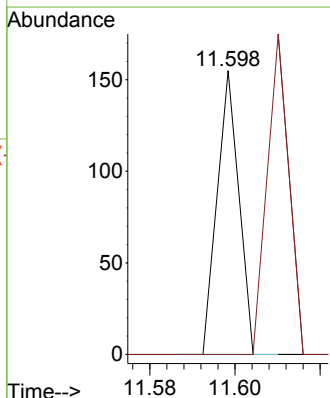
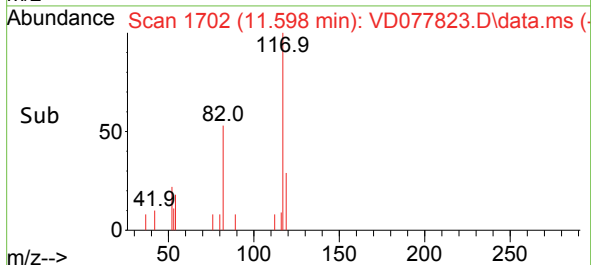
Tgt Ion:117 Resp: 10316
Ion Ratio Lower Upper
117 100
82 63.0 38.3 57.5#
119 29.5 25.0 37.4

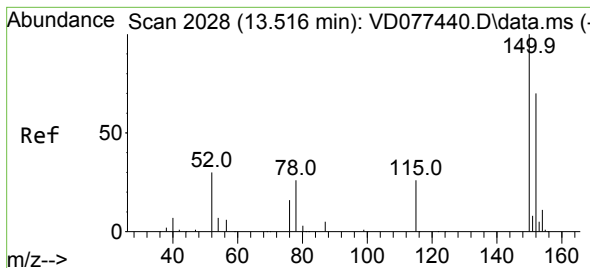


#65
Chlorobenzene
Concen: Below Cal
RT: 11.598 min Scan# 1702
Delta R.T. -0.006 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37



Tgt Ion:112 Resp: 55
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.522 min Scan# 20

Delta R.T. 0.006 min

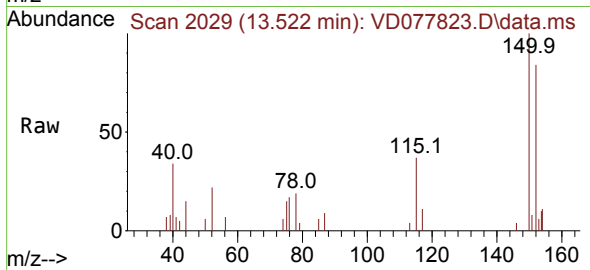
Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

Instrument :

MSVOA_D

ClientSampleId :



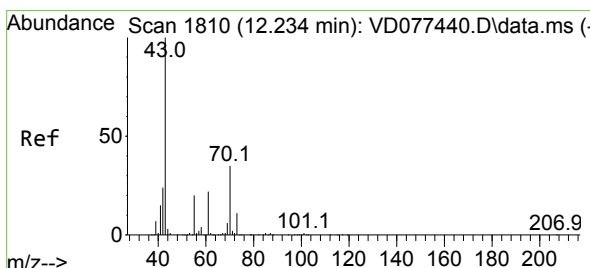
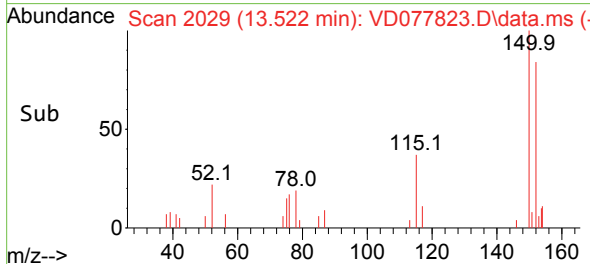
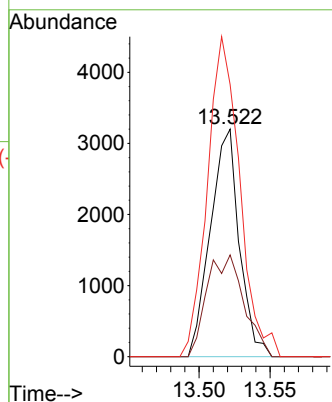
Tgt Ion:152 Resp: 4529

Ion Ratio Lower Upper

152 100

115 57.4 27.1 81.3

150 157.4 0.0 353.6



#74

N-ethyl acetate

Concen: 2.016 ug/l

RT: 12.204 min Scan# 1805

Delta R.T. -0.030 min

Lab File: VD077823.D

Acq: 11 Dec 2023 20:37

Tgt Ion: 43 Resp: 136

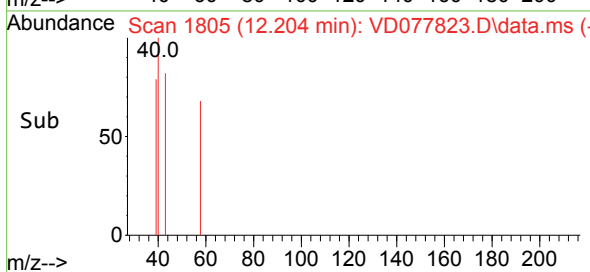
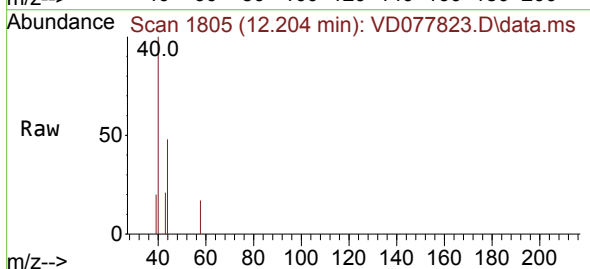
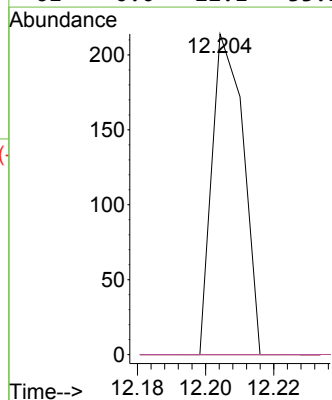
Ion Ratio Lower Upper

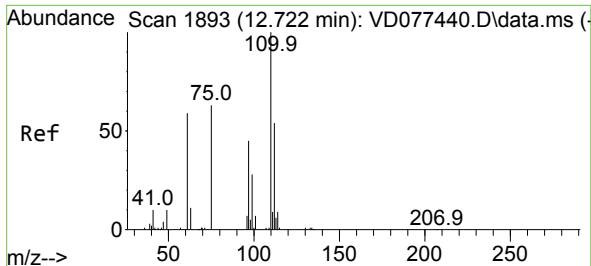
43 100

70 0.0 45.0 67.4#

55 0.0 23.8 35.6#

61 0.0 22.1 33.1#

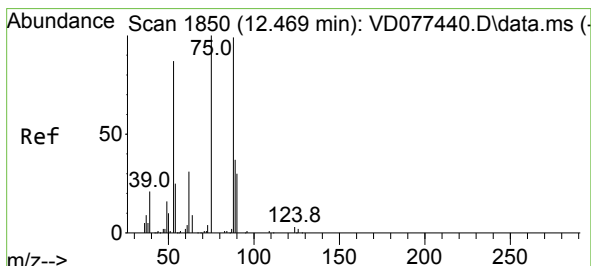
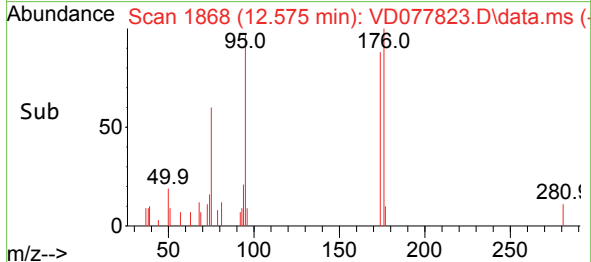
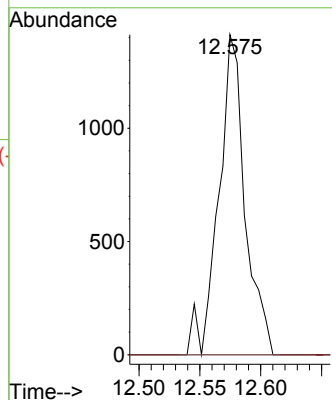
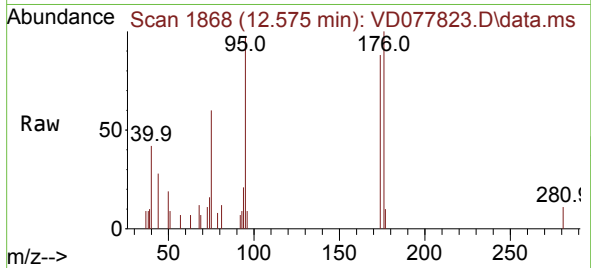




#76
1,2,3-Trichloropropane
Concen: 54.125 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

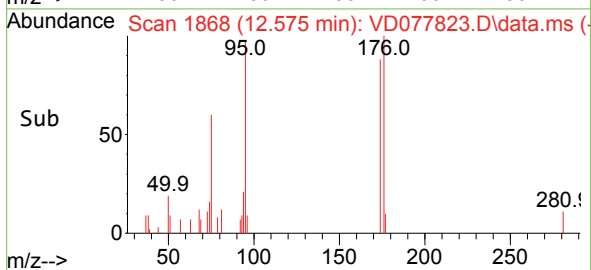
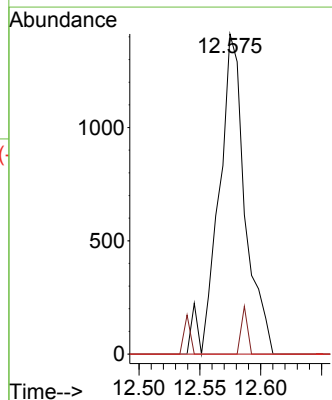
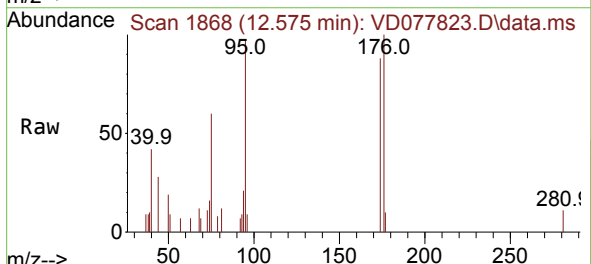
Instrument :
MSVOA_D
ClientSampleId :

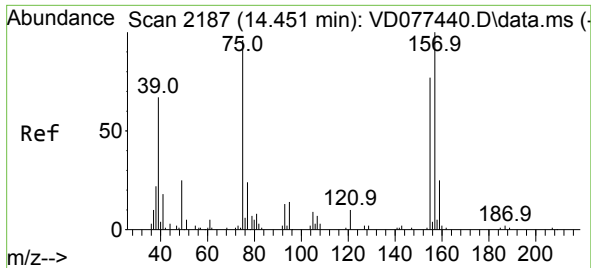
Tgt Ion: 75 Resp: 2129
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 109.662 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077823.D
Acq: 11 Dec 2023 20:37

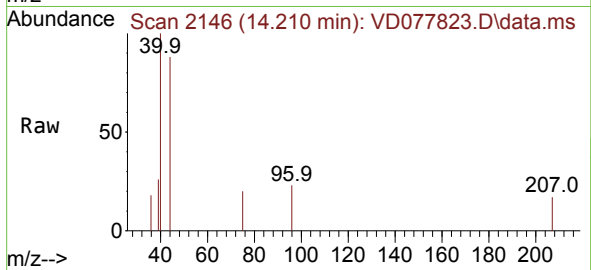
Tgt Ion: 75 Resp: 2129
Ion Ratio Lower Upper
75 100
53 3.5 63.0 94.4#
89 0.0 37.9 56.9#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 6.412 ug/l
 RT: 14.210 min Scan# 21
 Delta R.T. -0.241 min
 Lab File: VD077823.D
 Acq: 11 Dec 2023 20:37

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 63
 Ion Ratio Lower Upper
 75 100
 155 0.0 47.9 143.8#
 157 0.0 59.9 179.7#

