

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD103123\
 Data File : VD077469.D
 Acq On : 31 Oct 2023 18:59
 Operator : JC/SY
 Sample : 05140-01
 Misc : 5.01G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 01 06:11:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D103023S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 31 04:19:17 2023
 Response via : Initial Calibration

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

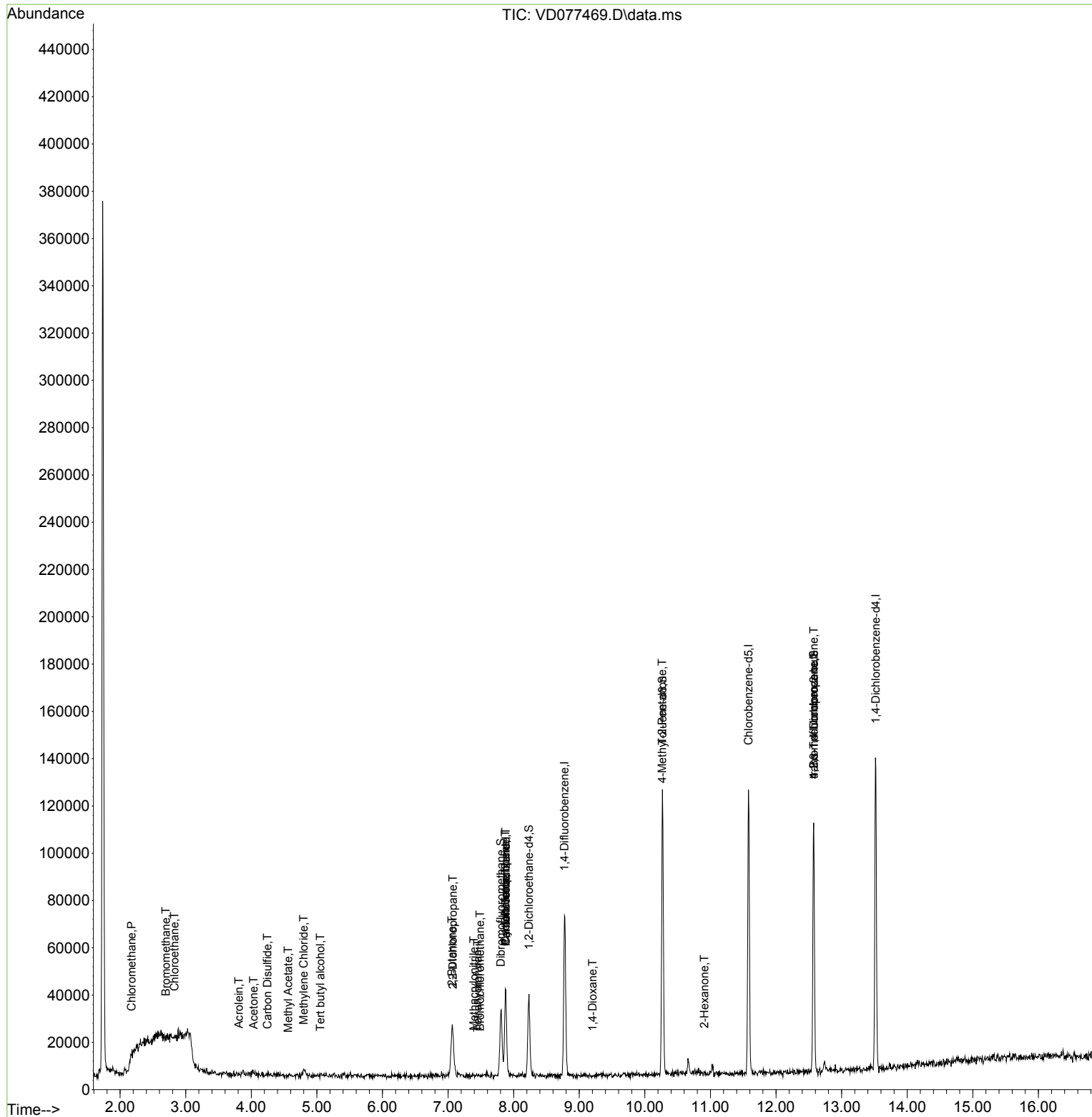
Internal Standards						
1) Pentafluorobenzene	7.881	168	25146	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	54364	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	61936	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	34276	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	26496	74.516	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 149.040%	
35) Dibromofluoromethane	7.804	113	19895	52.948	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.900%	
50) Toluene-d8	10.269	98	75404	51.665	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.320%	
62) 4-Bromofluorobenzene	12.575	95	31327	63.729	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 127.460%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.175	50	598	1.858	ug/l #	41
5) Bromomethane	2.699	94	199	1.210	ug/l #	2
6) Chloroethane	2.828	64	300	1.419	ug/l #	35
11) Tert butyl alcohol	5.052	59	76	2.698	ug/l #	1
13) Acrolein	3.811	56	152	4.092	ug/l #	15
16) Acetone	4.034	43	2126	22.595	ug/l #	67
17) Carbon Disulfide	4.246	76	117	3.896	ug/l #	76
18) Methyl Acetate	4.563	43	489	1.425	ug/l #	42
20) Methylene Chloride	4.799	84	1241	1.146	ug/l #	19
25) 2-Butanone	7.057	43	684	5.450	ug/l #	50
26) 2,2-Dichloropropane	7.075	77	1654	2.792	ug/l #	49
28) Bromochloromethane	7.487	49	65	2.311	ug/l #	1
29) Tetrahydrofuran	7.451	42	228	3.063	ug/l #	23
31) Cyclohexane	7.875	56	688	1.238	ug/l #	35
36) 1,1-Dichloropropene	7.875	75	2560	4.595	ug/l #	41
38) Carbon Tetrachloride	7.881	117	3069	5.846	ug/l #	11
41) Methacrylonitrile	7.393	41	228	1.115	ug/l #	17
49) 1,4-Dioxane	9.204	88	54	22.328	ug/l #	1
51) 4-Methyl-2-Pentanone	10.263	43	1693	5.213	ug/l	97
59) 2-Hexanone	10.910	43	558	2.332	ug/l #	16
76) 1,2,3-Trichloropropane	12.575	75	18379	44.056	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	18379	85.100	ug/l #	17

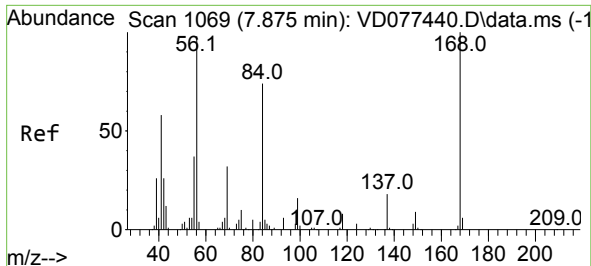
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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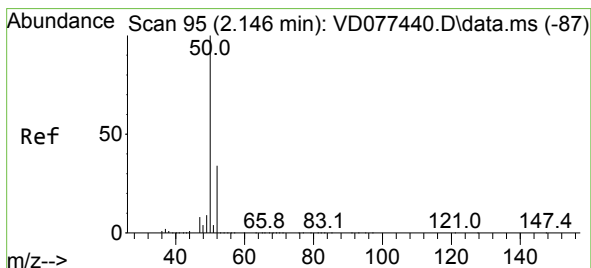
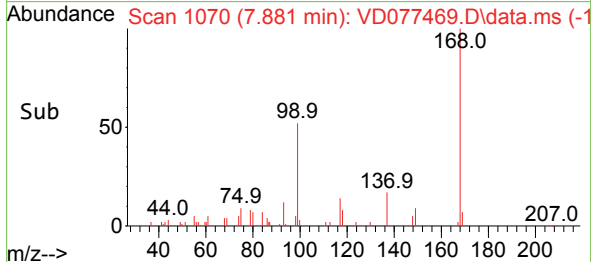
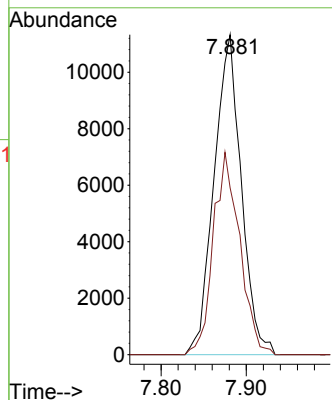
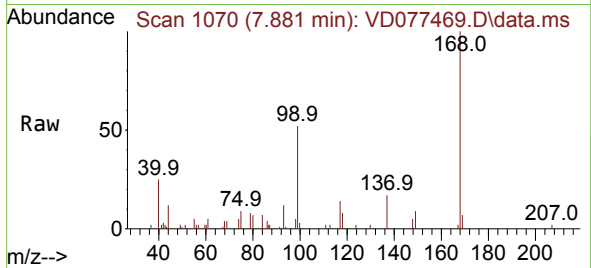




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 10
Delta R.T. 0.006 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

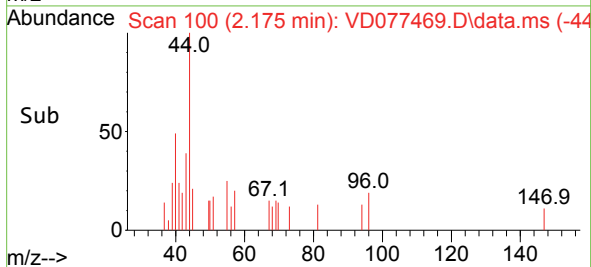
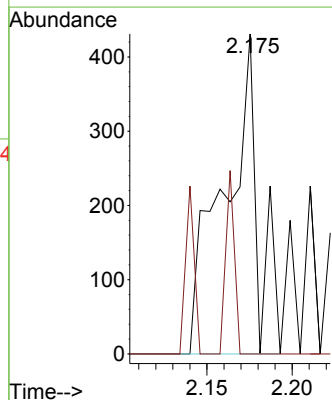
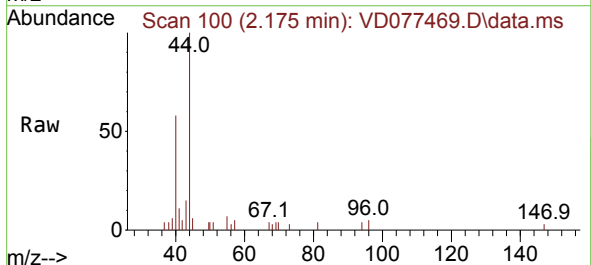
Instrument :
MSVOA_D
ClientSampleId :

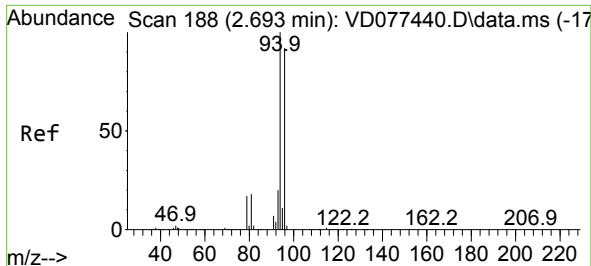
Tgt Ion:168 Resp: 25146
Ion Ratio Lower Upper
168 100
99 52.1 36.7 55.1



#3
Chloromethane
Concen: 1.858 ug/l
RT: 2.175 min Scan# 100
Delta R.T. 0.029 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 50 Resp: 598
Ion Ratio Lower Upper
50 100
52 0.0 26.6 40.0#

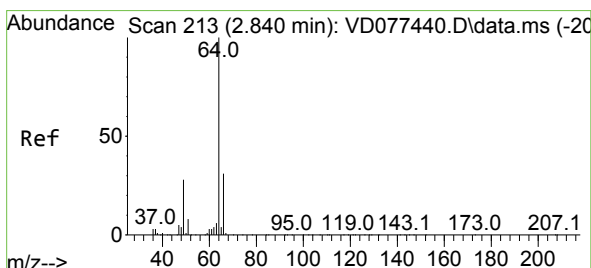
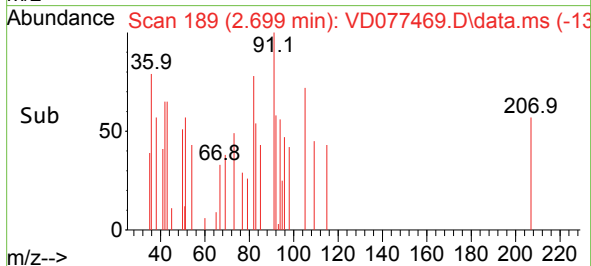
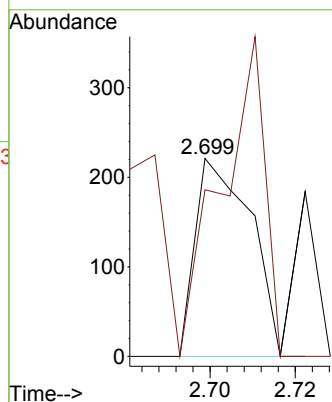
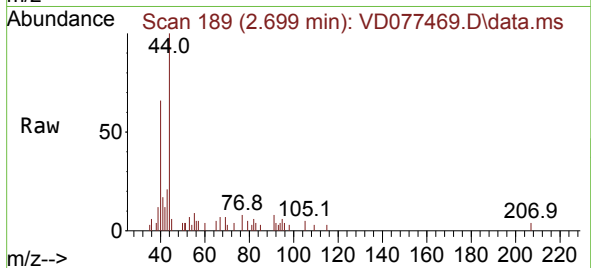




#5
Bromomethane
Concen: 1.210 ug/l
RT: 2.699 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

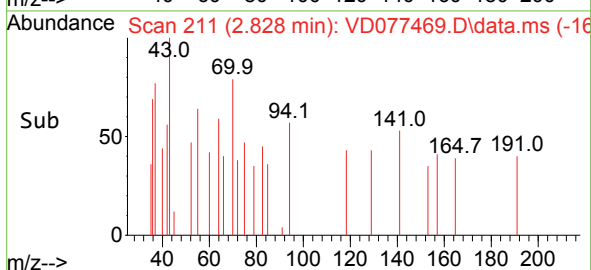
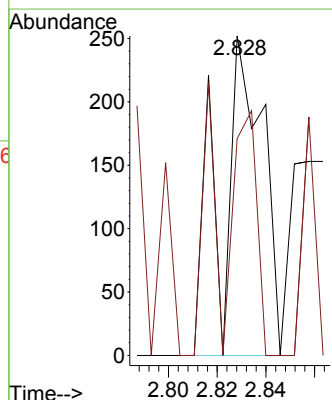
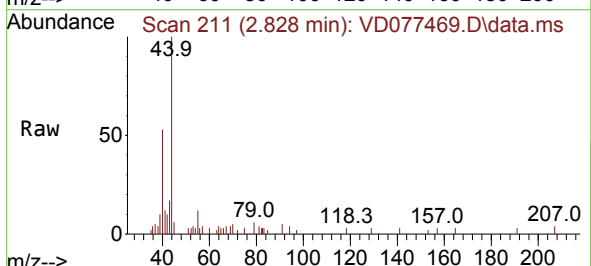
Instrument :
MSVOA_D
ClientSampleId :

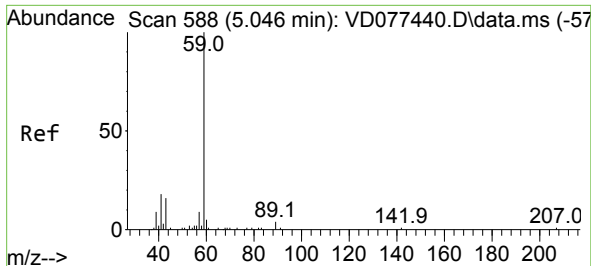
Tgt Ion: 94 Resp: 199
Ion Ratio Lower Upper
94 100
96 0.0 75.8 113.8#



#6
Chloroethane
Concen: 1.419 ug/l
RT: 2.828 min Scan# 211
Delta R.T. -0.012 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

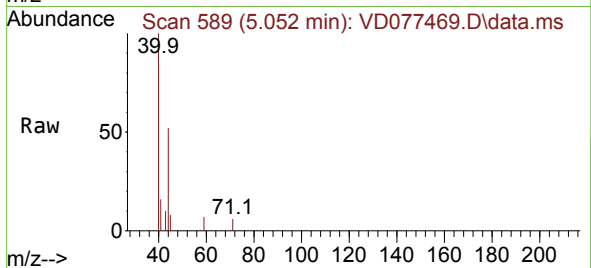
Tgt Ion: 64 Resp: 300
Ion Ratio Lower Upper
64 100
66 67.9 25.5 38.3#



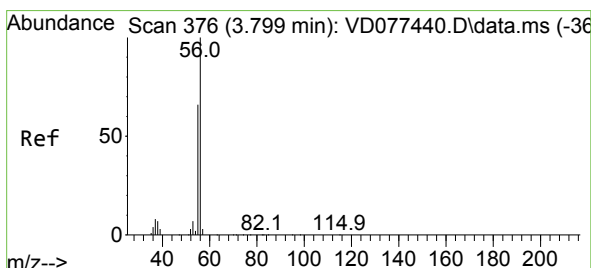
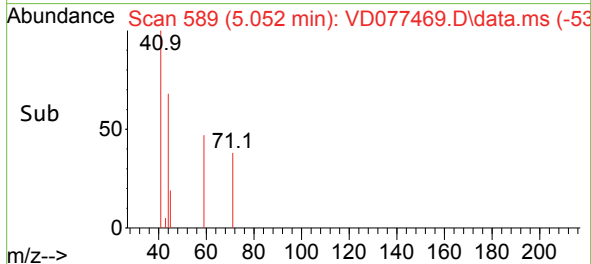
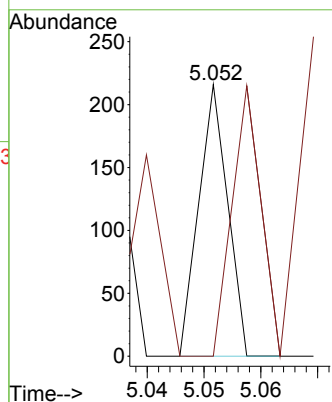


#11
Tert butyl alcohol
Concen: 2.698 ug/l
RT: 5.052 min Scan# 51
Delta R.T. 0.006 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Instrument :
MSVOA_D
ClientSampleId :

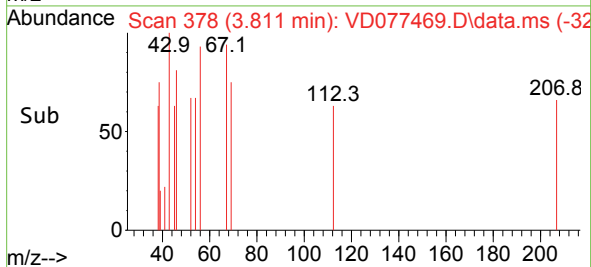
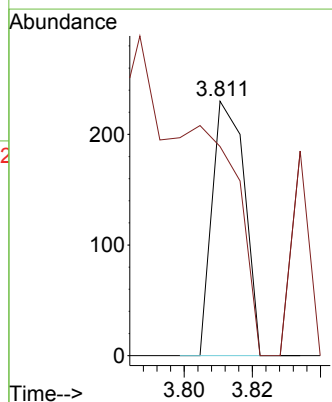
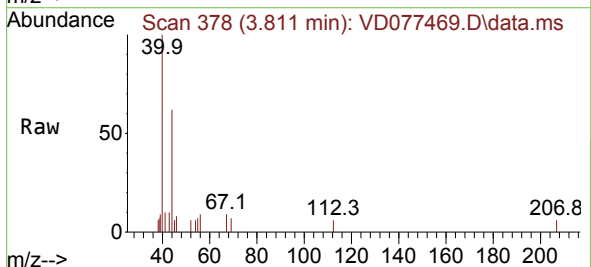


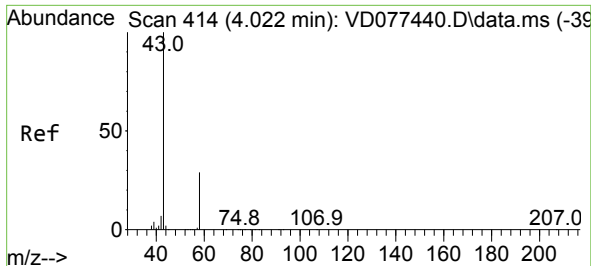
Tgt Ion: 59 Resp: 76
Ion Ratio Lower Upper
59 100
57 100.0 7.8 11.8#



#13
Acrolein
Concen: 4.092 ug/l
RT: 3.811 min Scan# 378
Delta R.T. 0.012 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 56 Resp: 152
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#

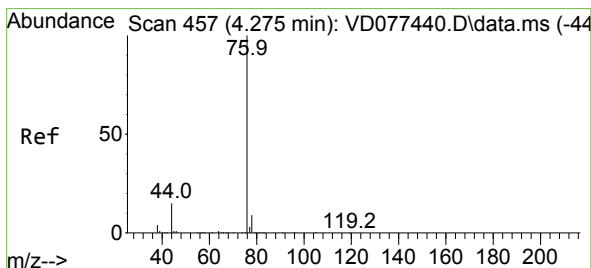
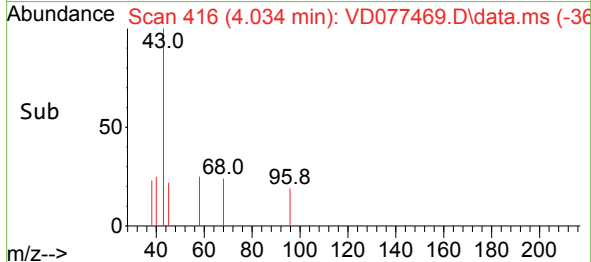
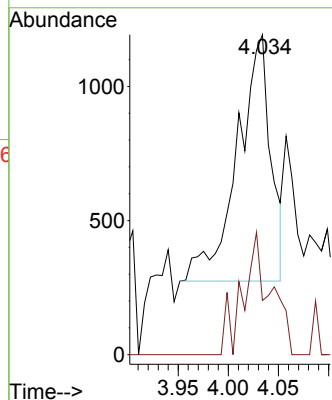
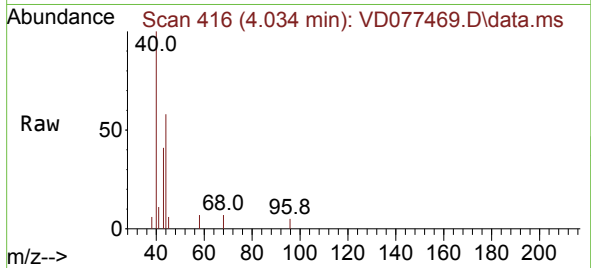




#16
Acetone
Concen: 22.595 ug/l
RT: 4.034 min Scan# 414
Delta R.T. 0.012 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

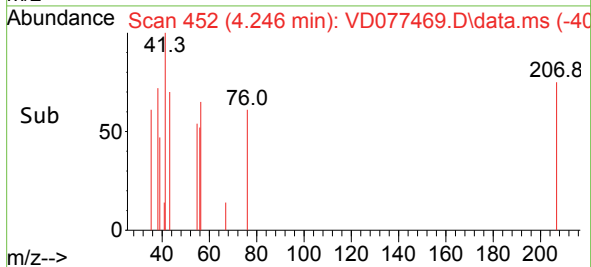
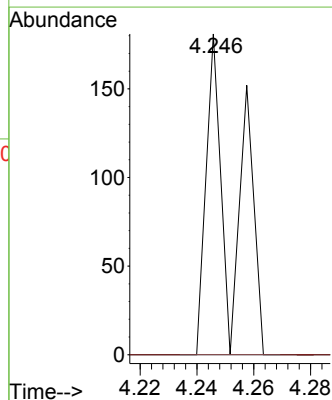
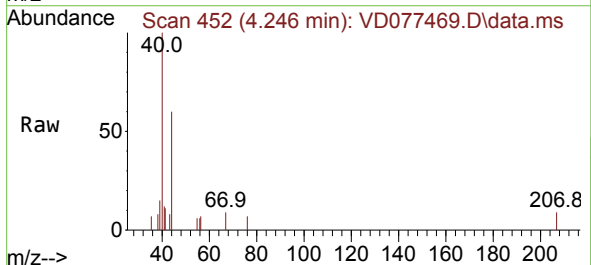
Instrument :
MSVOA_D
ClientSampleId :

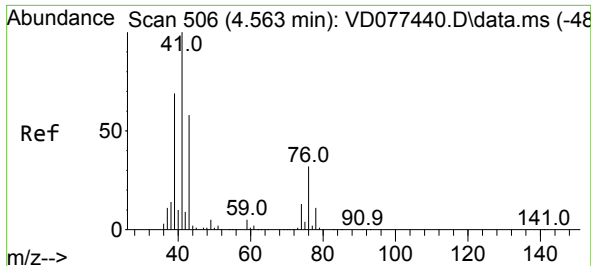
Tgt Ion: 43 Resp: 2126
Ion Ratio Lower Upper
43 100
58 22.0 34.7 52.1#



#17
Carbon Disulfide
Concen: 3.896 ug/l
RT: 4.246 min Scan# 452
Delta R.T. -0.029 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 76 Resp: 117
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

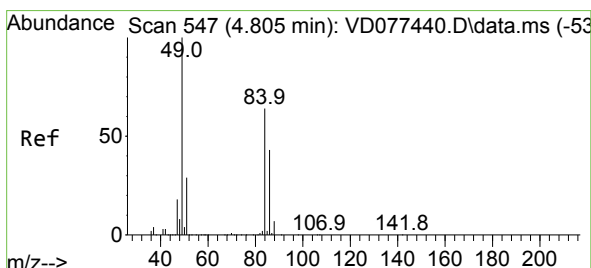
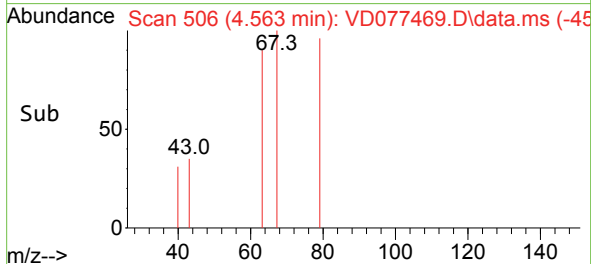
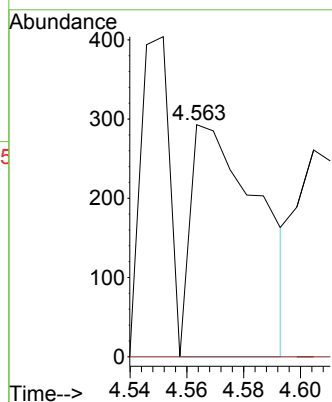
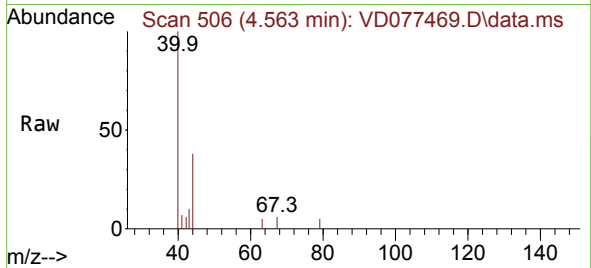




#18
Methyl Acetate
Concen: 1.425 ug/l
RT: 4.563 min Scan# 506
Delta R.T. 0.000 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

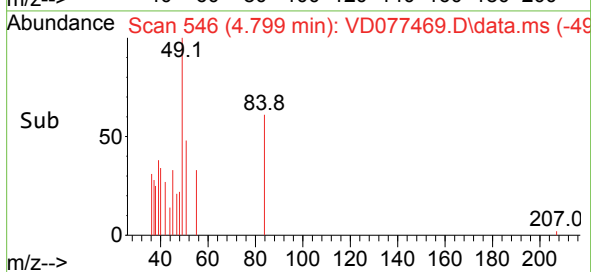
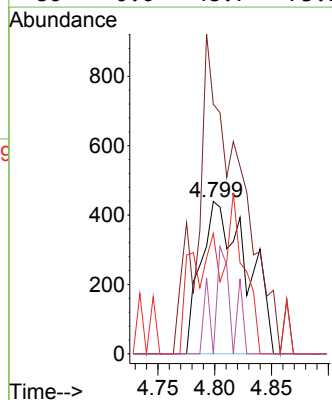
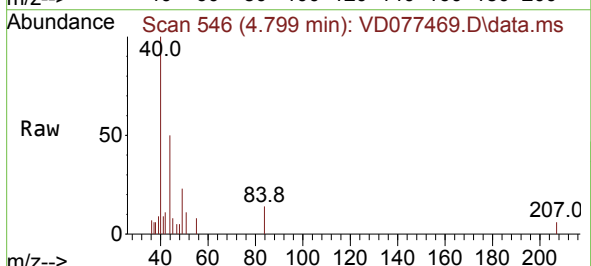
Instrument :
MSVOA_D
ClientSampleId :

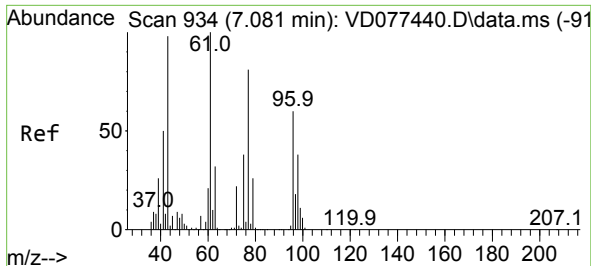
Tgt Ion: 43 Resp: 489
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: 1.146 ug/l
RT: 4.799 min Scan# 546
Delta R.T. -0.006 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 84 Resp: 1241
Ion Ratio Lower Upper
84 100
49 163.8 71.4 107.2#
51 79.0 24.5 36.7#
86 0.0 48.7 73.1#





#25

2-Butanone

Concen: 5.450 ug/l

RT: 7.057 min Scan# 91

Delta R.T. -0.024 min

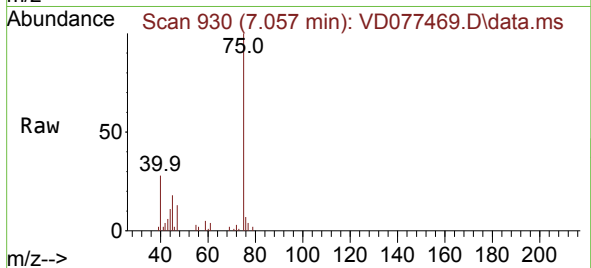
Lab File: VD077469.D

Acq: 31 Oct 2023 18:59

Instrument :

MSVOA_D

ClientSampleId :

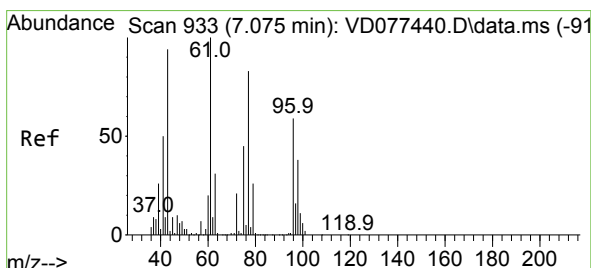
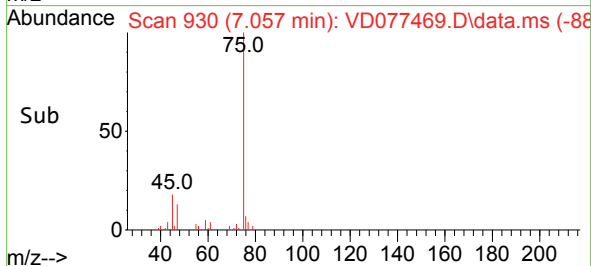
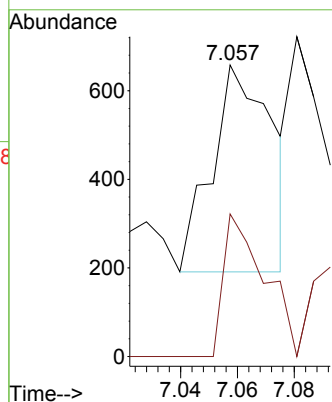


Tgt Ion: 43 Resp: 684

Ion Ratio Lower Upper

43 100

72 69.0 30.7 46.1#



#26

2,2-Dichloropropane

Concen: 2.792 ug/l

RT: 7.075 min Scan# 933

Delta R.T. -0.000 min

Lab File: VD077469.D

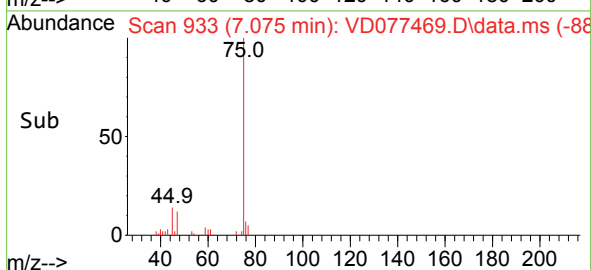
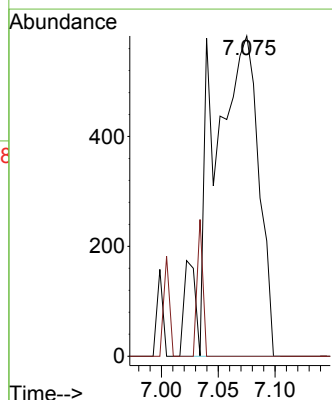
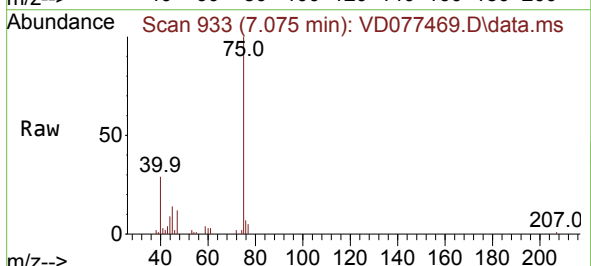
Acq: 31 Oct 2023 18:59

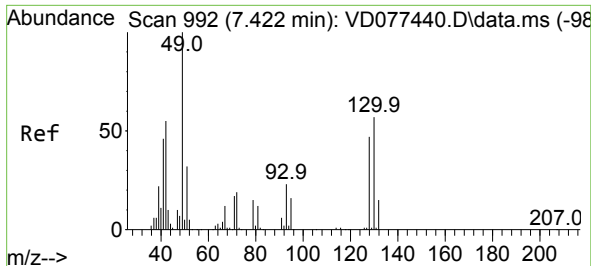
Tgt Ion: 77 Resp: 1654

Ion Ratio Lower Upper

77 100

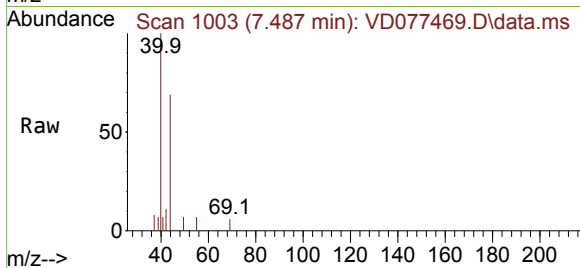
97 0.0 13.2 39.6#



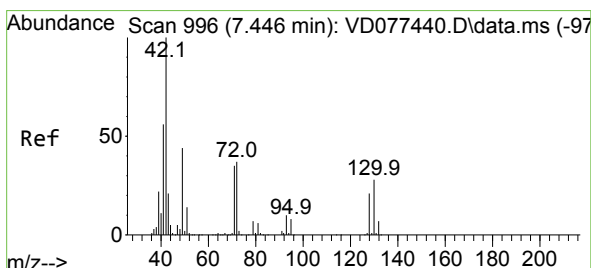
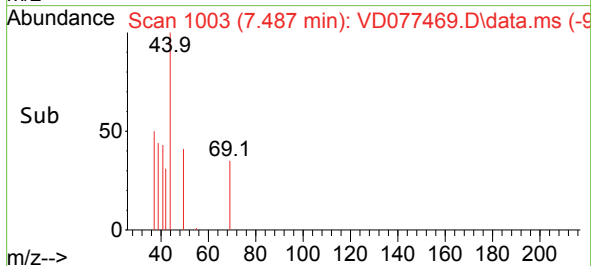
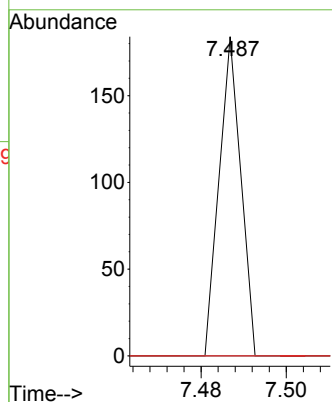


#28
Bromochloromethane
Concen: 2.311 ug/l
RT: 7.487 min Scan# 1003
Delta R.T. 0.065 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Instrument :
MSVOA_D
ClientSampleId :

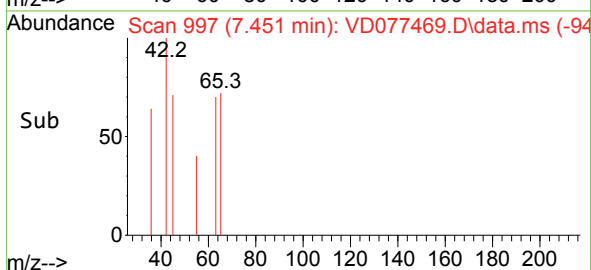
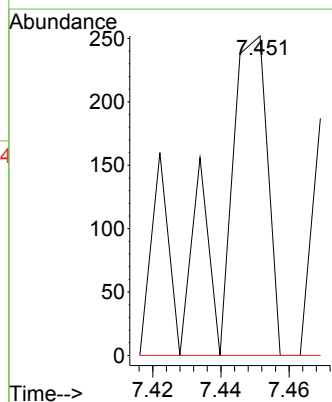
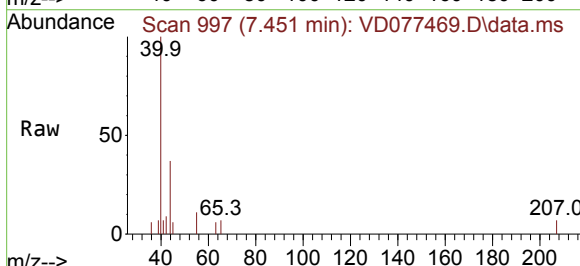


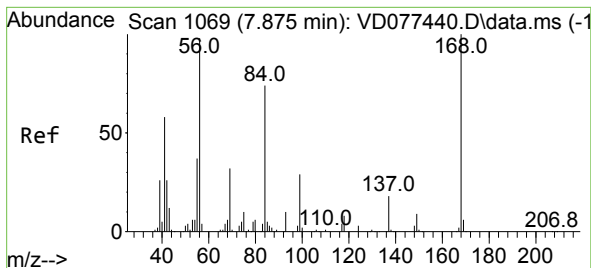
Tgt Ion: 49 Resp: 65
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.0
130 0.0 83.2 124.8#



#29
Tetrahydrofuran
Concen: 3.063 ug/l
RT: 7.451 min Scan# 997
Delta R.T. 0.006 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 42 Resp: 228
Ion Ratio Lower Upper
42 100
72 0.0 46.5 69.7#
71 0.0 44.5 66.7#





#31

Cyclohexane

Concen: 1.238 ug/l

RT: 7.875 min Scan# 110

Delta R.T. -0.000 min

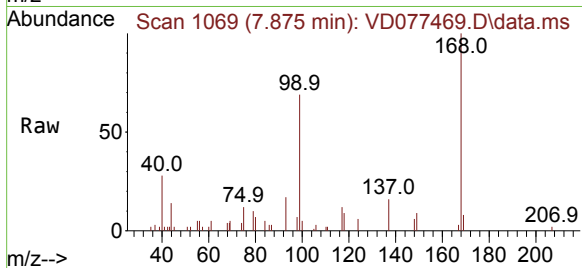
Lab File: VD077469.D

Acq: 31 Oct 2023 18:59

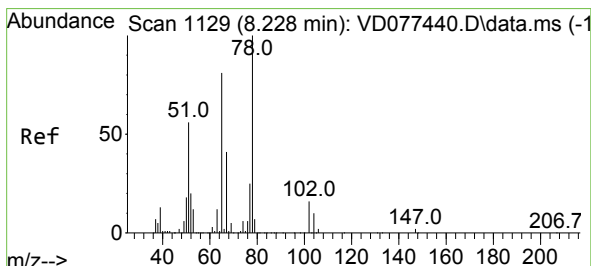
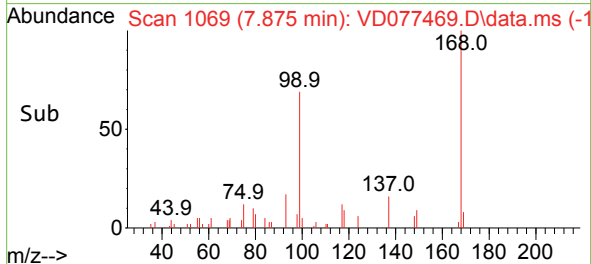
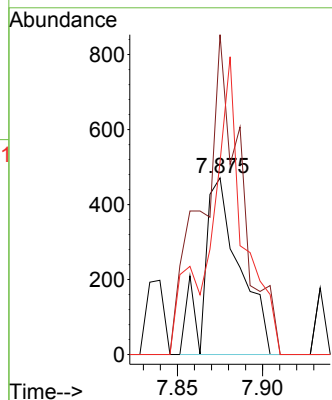
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	56	Resp:	688
Ion Ratio	Lower	Upper	
56	100		
69	181.1	28.6	43.0#
84	108.9	84.8	127.2



#33

1,2-Dichloroethane-d4

Concen: 74.516 ug/l

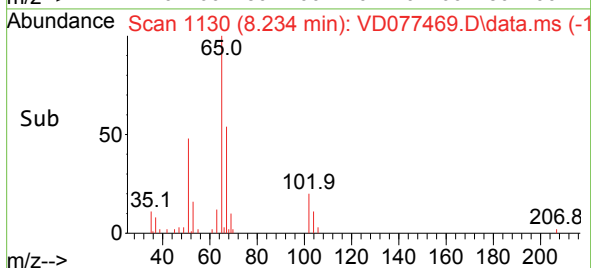
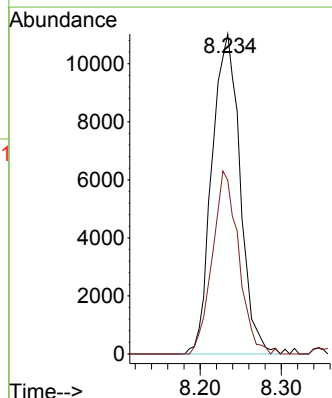
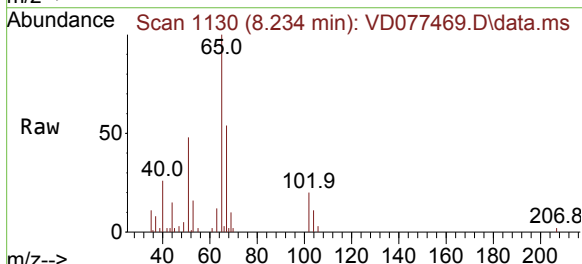
RT: 8.234 min Scan# 1130

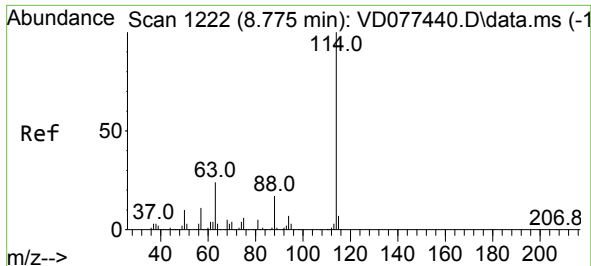
Delta R.T. 0.006 min

Lab File: VD077469.D

Acq: 31 Oct 2023 18:59

Tgt Ion:	65	Resp:	26496
Ion Ratio	Lower	Upper	
65	100		
67	53.7	0.0	115.0

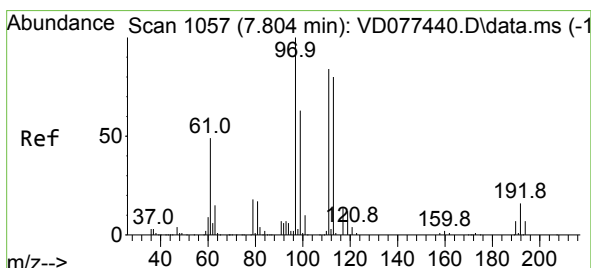
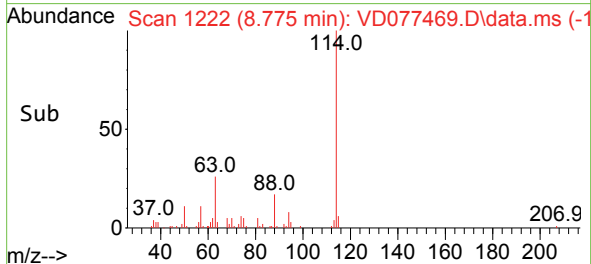
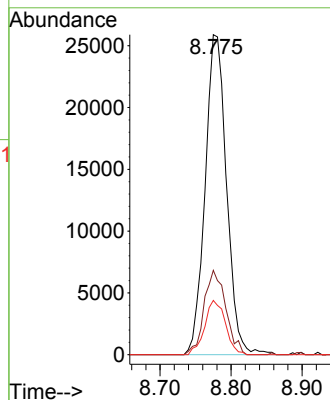
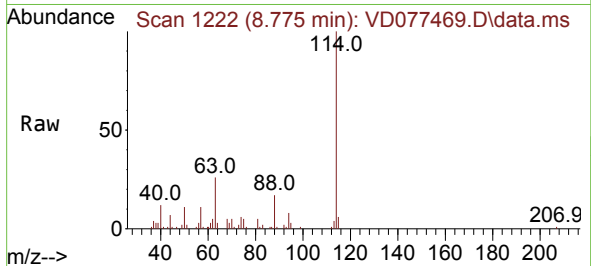




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

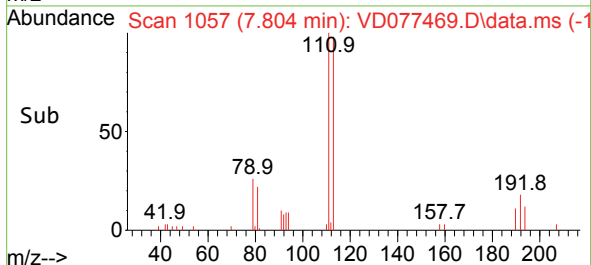
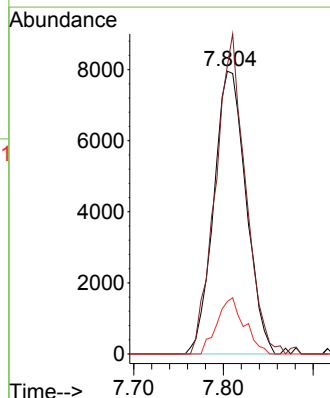
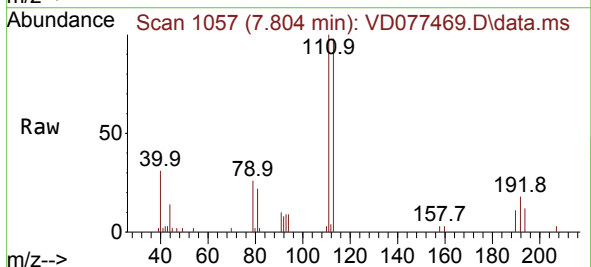
Instrument :
MSVOA_D
ClientSampleId :

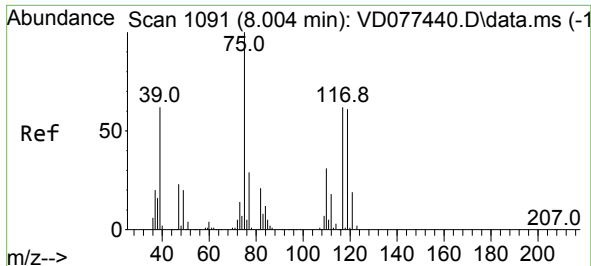
Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.4	0.0	33.4
88	16.9	0.0	26.2



#35
Dibromofluoromethane
Concen: 52.948 ug/l
RT: 7.804 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	84.7	127.1
192	16.9	16.8	25.2





#36

1,1-Dichloropropene

Concen: 4.595 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.129 min

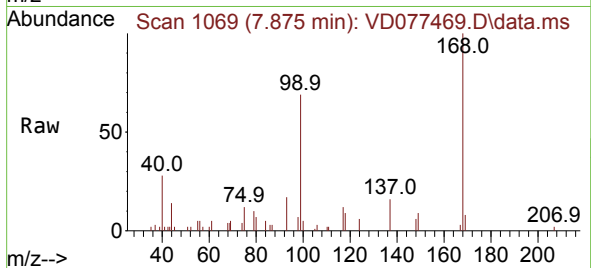
Lab File: VD077469.D

Acq: 31 Oct 2023 18:59

Instrument :

MSVOA_D

ClientSampleId :



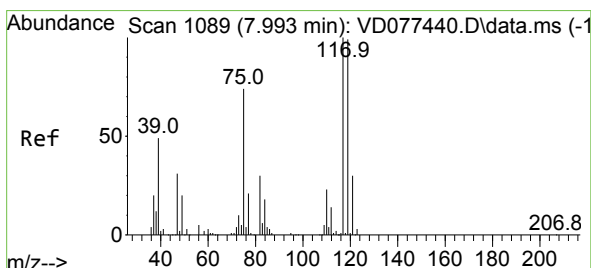
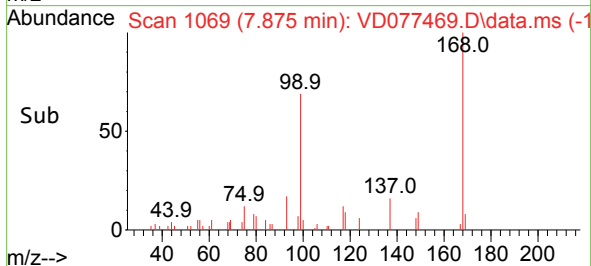
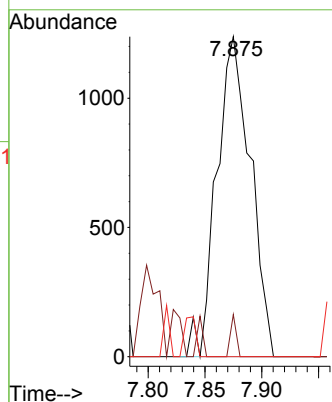
Tgt Ion: 75 Resp: 2560

Ion Ratio Lower Upper

75 100

110 2.3 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.846 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.112 min

Lab File: VD077469.D

Acq: 31 Oct 2023 18:59

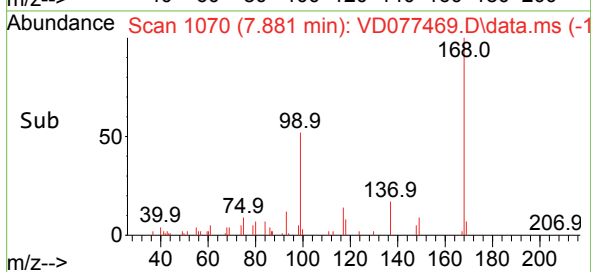
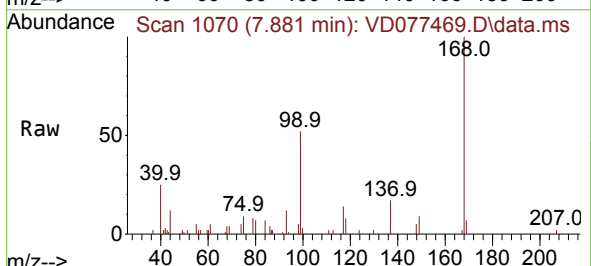
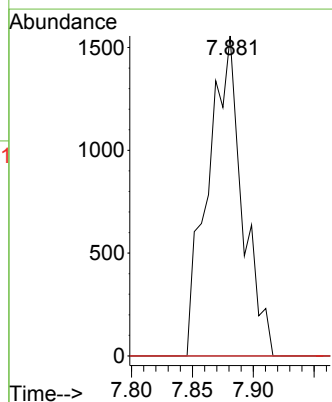
Tgt Ion: 117 Resp: 3069

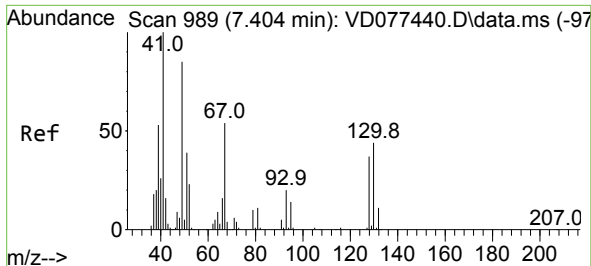
Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

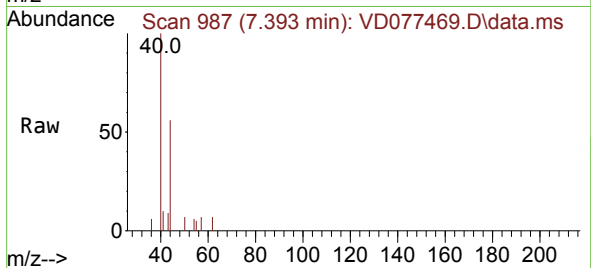
121 0.0 24.2 36.2#



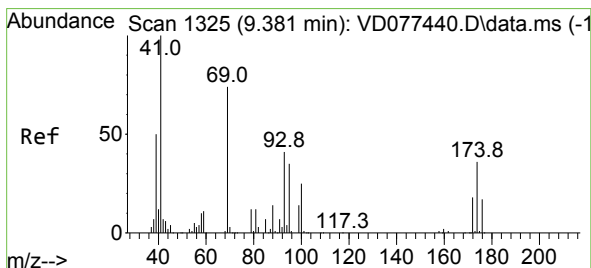
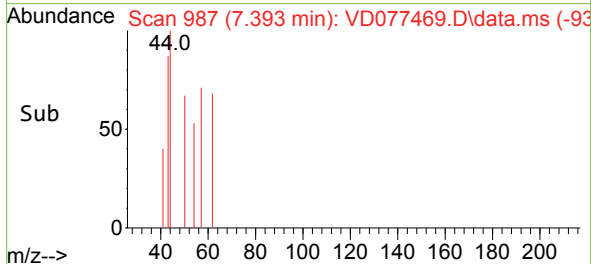
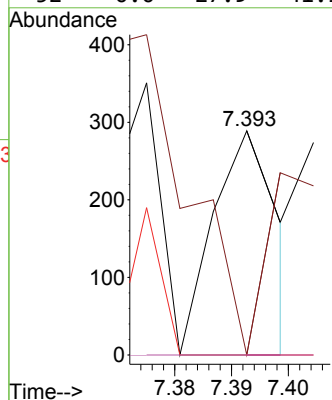


#41
Methacrylonitrile
Concen: 1.115 ug/l
RT: 7.393 min Scan# 91
Delta R.T. -0.012 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Instrument :
MSVOA_D
ClientSampleId :

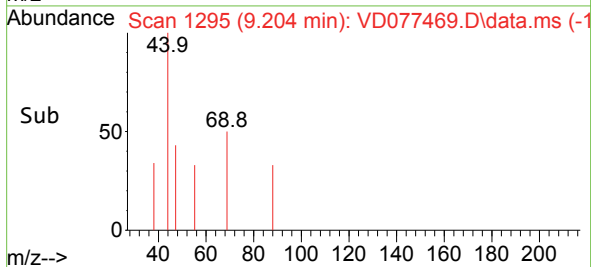
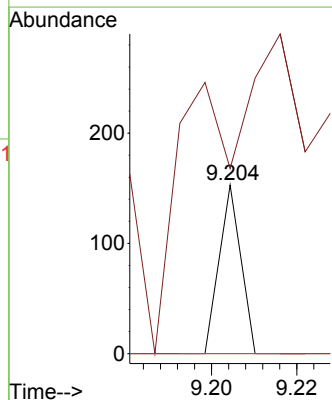
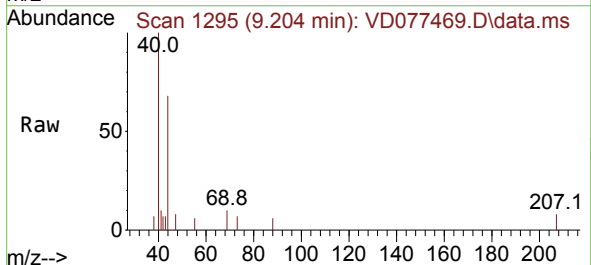


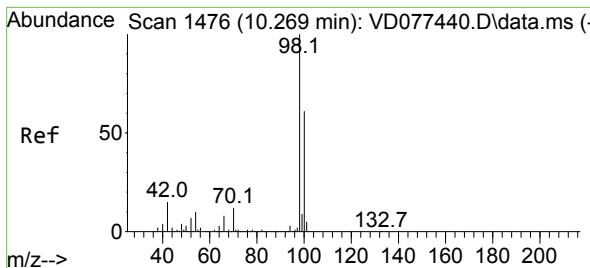
Tgt Ion: 41	Resp: 228
Ion Ratio	Lower Upper
41 100	
39 0.0	34.0 51.0#
67 0.0	77.0 115.4#
52 0.0	27.9 41.9#



#49
1,4-Dioxane
Concen: 22.328 ug/l
RT: 9.204 min Scan# 1295
Delta R.T. -0.176 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 88	Resp: 54
Ion Ratio	Lower Upper
88 100	
43 407.4	19.0 28.6#
58 0.0	43.5 65.3#

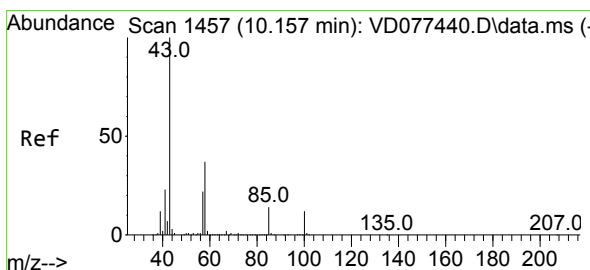
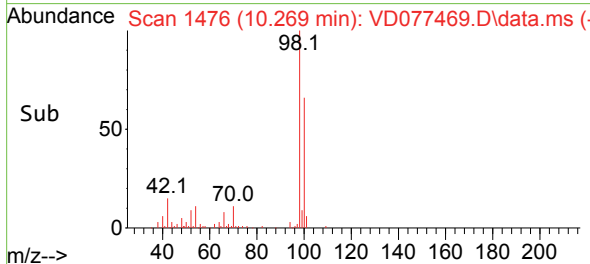
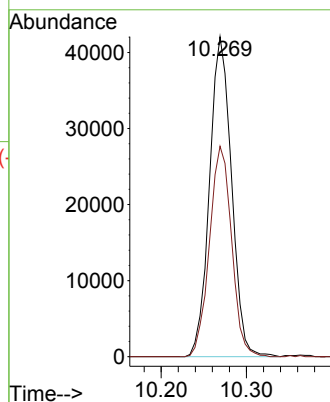
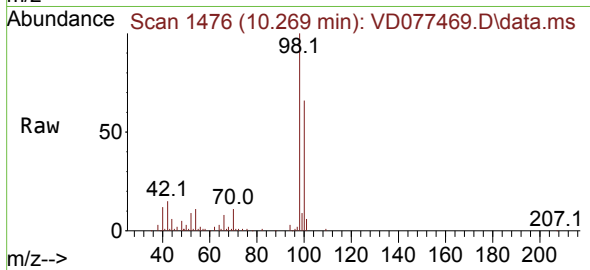




#50
Toluene-d8
Concen: 51.665 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

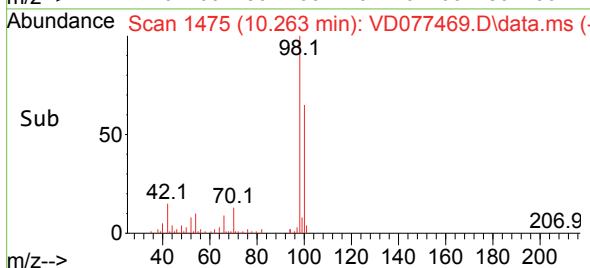
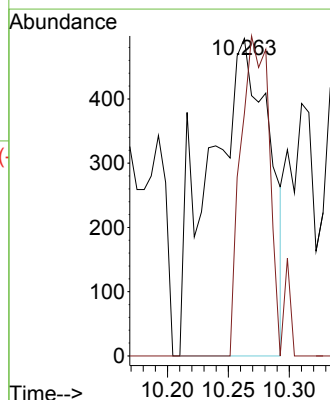
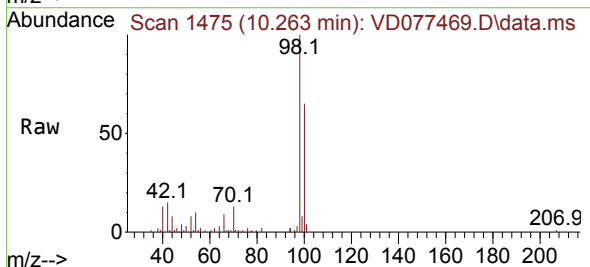
Instrument :
MSVOA_D
ClientSampleId :

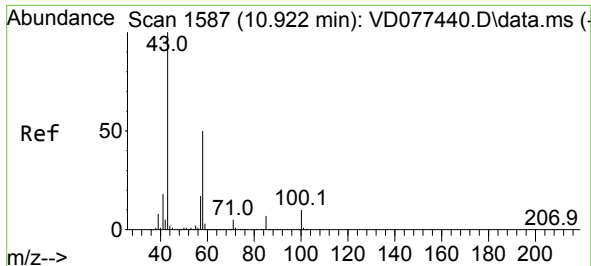
Tgt Ion: 98 Resp: 75404
Ion Ratio Lower Upper
98 100
100 66.2 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 5.213 ug/l
RT: 10.263 min Scan# 1475
Delta R.T. 0.106 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 43 Resp: 1693
Ion Ratio Lower Upper
43 100
58 50.6 38.9 58.3

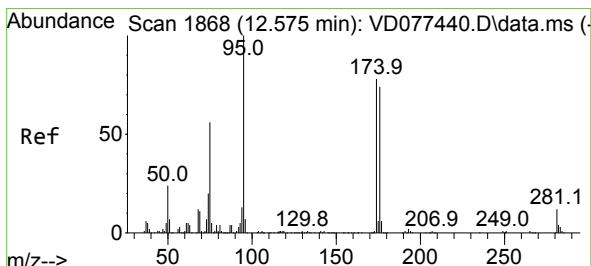
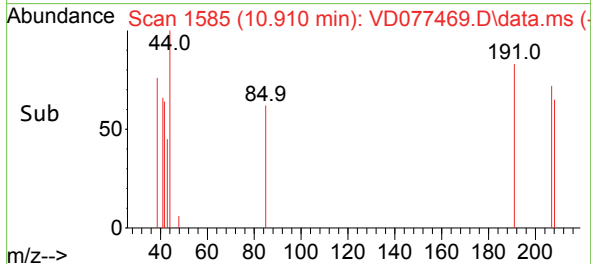
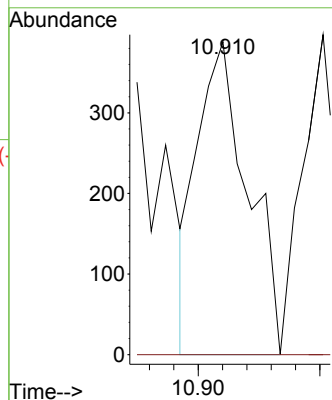
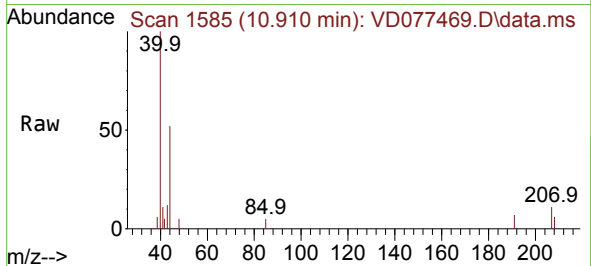




#59
2-Hexanone
Concen: 2.332 ug/l
RT: 10.910 min Scan# 1585
Delta R.T. -0.012 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

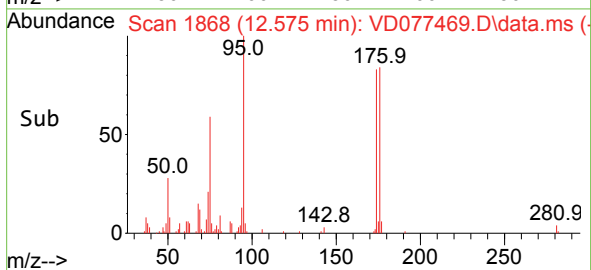
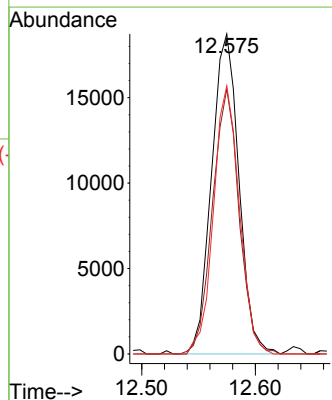
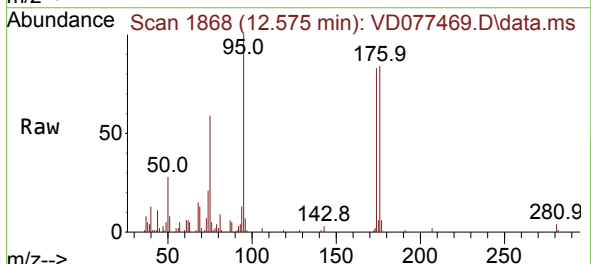
Instrument :
MSVOA_D
ClientSampleId :

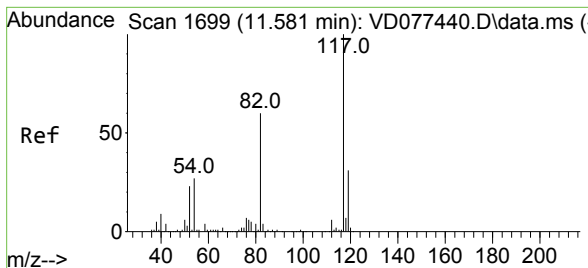
Tgt Ion: 43 Resp: 558
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#



#62
4-Bromofluorobenzene
Concen: 63.729 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 95 Resp: 31327
Ion Ratio Lower Upper
95 100
174 80.5 0.0 201.8
176 79.3 0.0 191.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.581 min Scan# 1

Delta R.T. -0.000 min

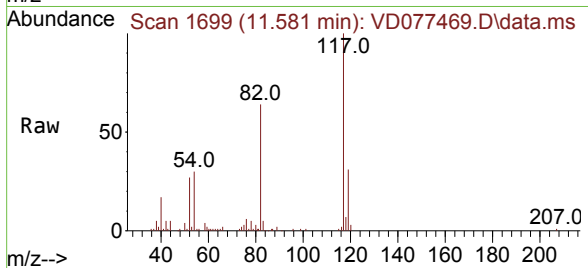
Lab File: VD077469.D

Acq: 31 Oct 2023 18:59

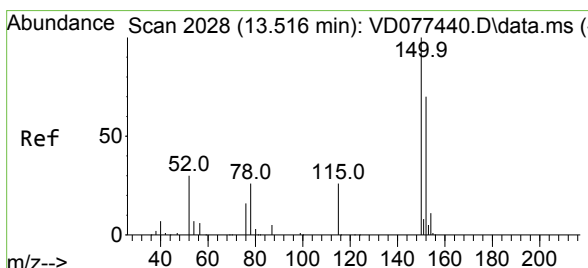
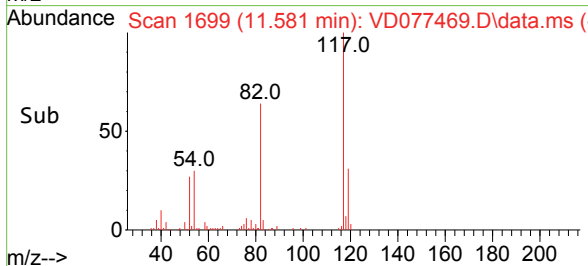
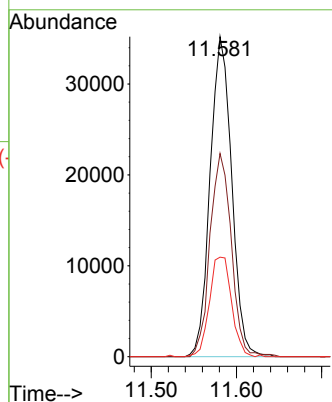
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	117	Resp:	61936
Ion Ratio	100	Lower	Upper
117	100		
82	63.5	38.3	57.5#
119	31.1	25.0	37.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

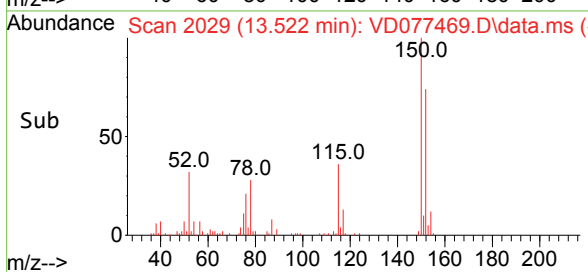
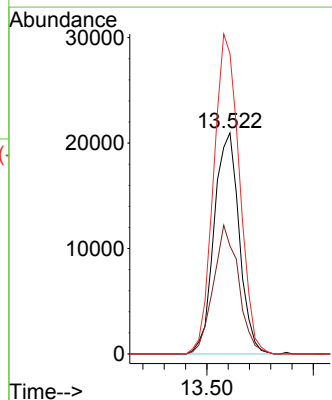
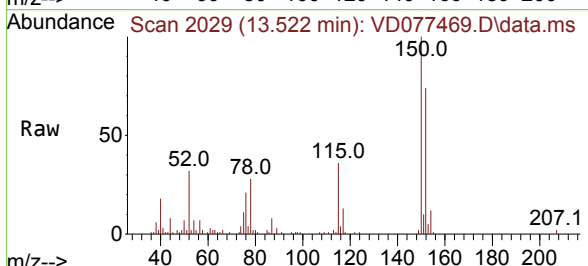
RT: 13.522 min Scan# 2029

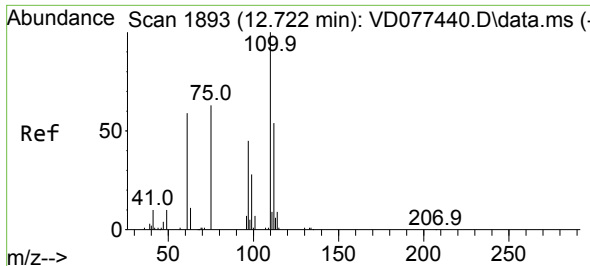
Delta R.T. 0.006 min

Lab File: VD077469.D

Acq: 31 Oct 2023 18:59

Tgt Ion:	152	Resp:	34276
Ion Ratio	100	Lower	Upper
152	100		
115	58.8	27.1	81.3
150	148.5	0.0	353.6

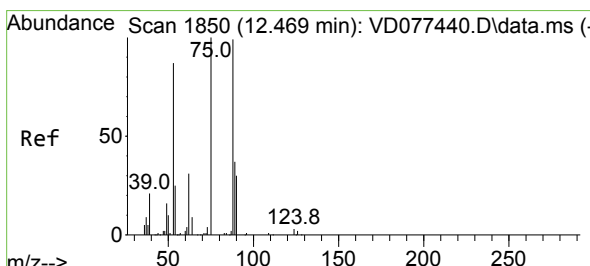
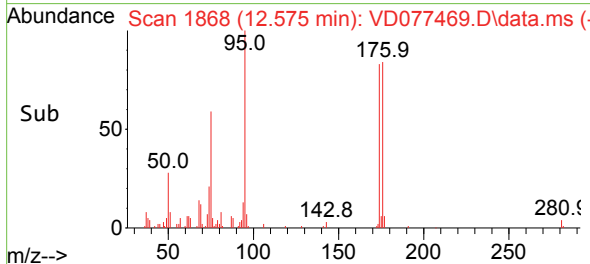
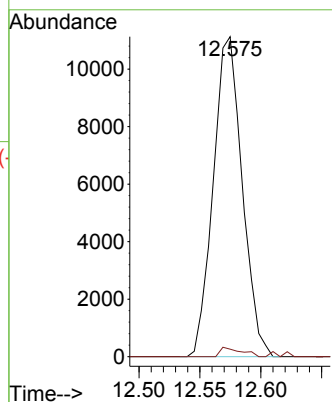
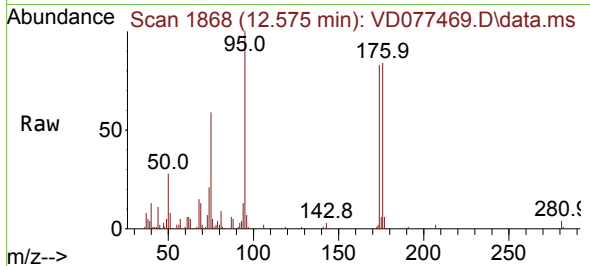




#76
1,2,3-Trichloropropane
Concen: 44.056 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 18379
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 85.100 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077469.D
Acq: 31 Oct 2023 18:59

Tgt Ion: 75 Resp: 18379
Ion Ratio Lower Upper
75 100
53 0.3 63.0 94.4#
89 0.0 37.9 56.9#

