

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121321\
 Data File : VD071305.D
 Acq On : 13 Dec 2021 19:16
 Operator : VA/SY
 Sample : M5022-39
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP13

Quant Time: Dec 14 08:15:28 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

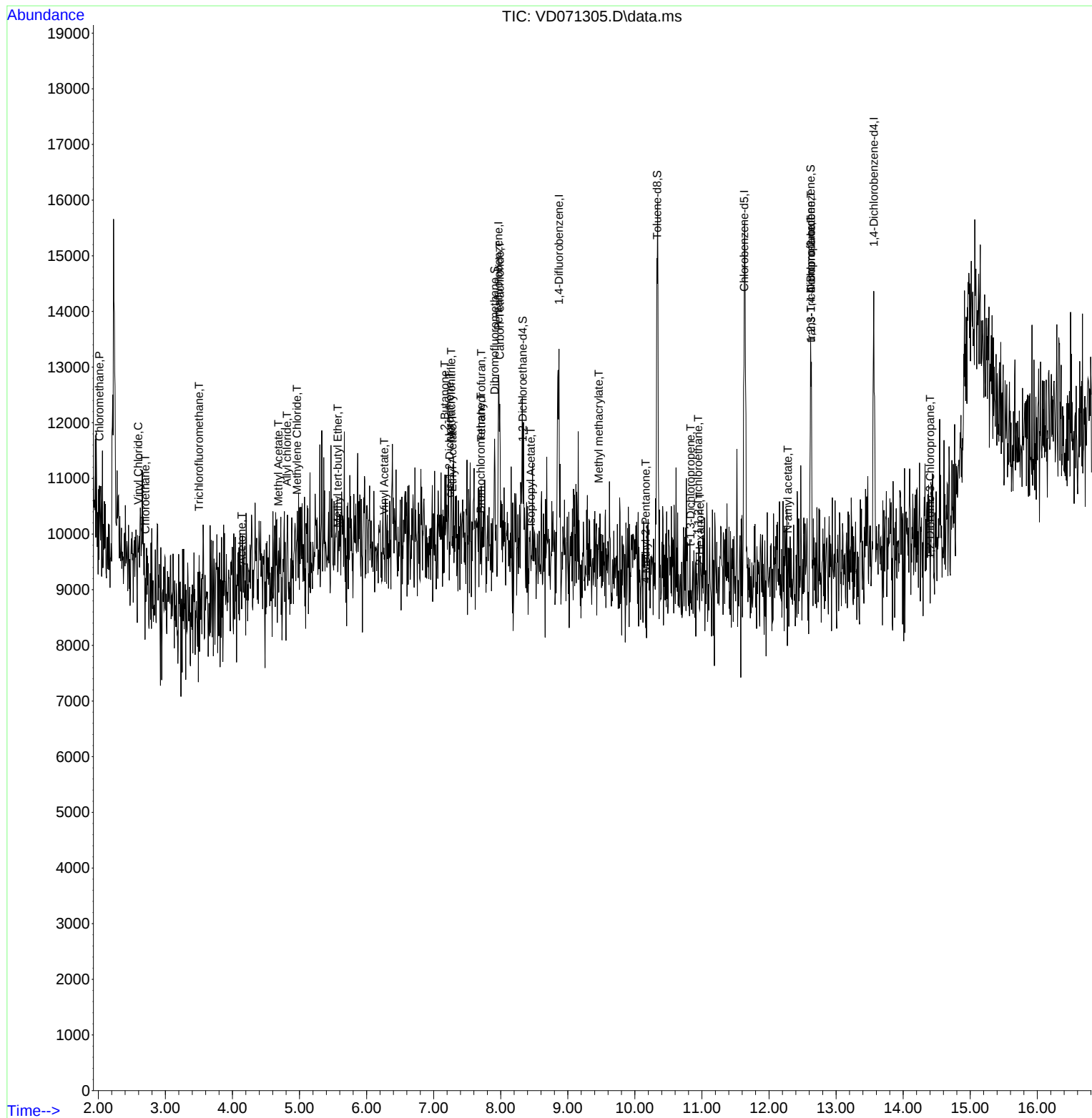
Internal Standards						
1) Pentafluorobenzene	7.967	168	1846	50.000	ug/l	-0.02
34) 1,4-Difluorobenzene	8.867	114	3382	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	3600	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	1383	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	1319	60.894	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.780%			
35) Dibromofluoromethane	7.909	113	822	38.168	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 76.340%			
50) Toluene-d8	10.332	98	4114	50.197	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 100.400%			
62) 4-Bromofluorobenzene	12.620	95	1642	57.798	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 115.600%			
Target Compounds						Qvalue
3) Chloromethane	2.015	50	54	2.593	ug/l #	42
4) Vinyl Chloride	2.597	62	75	3.228	ug/l #	42
6) Chloroethane	2.703	64	59	3.692	ug/l #	39
7) Trichlorofluoromethane	3.503	101	56	1.779	ug/l #	19
14) Allyl chloride	4.815	41	64	1.966	ug/l #	28
16) Acetone	4.138	43	94	45.126	ug/l #	40
18) Methyl Acetate	4.685	43	59	3.692	ug/l #	51
19) Methyl tert-butyl Ether	5.567	73	125	2.976	ug/l #	52
20) Methylene Chloride	4.962	84	134	2.132	ug/l #	45
23) Vinyl Acetate	6.262	43	147	30.933	ug/l #	72
25) 2-Butanone	7.167	43	57	35.966	ug/l #	45
27) cis-1,2-Dichloroethene	7.238	96	58	2.658	ug/l #	1
28) Bromochloromethane	7.703	49	61	3.744	ug/l #	14
29) Tetrahydrofuran	7.709	42	57	16.572	ug/l #	34
37) Ethyl Acetate	7.279	43	84	6.152	ug/l #	66
38) Carbon Tetrachloride	7.985	117	215	6.900	ug/l #	12
41) Methacrylonitrile	7.262	41	75	8.994	ug/l #	1
43) Isopropyl Acetate	8.450	43	62	7.071	ug/l #	47
48) Methyl methacrylate	9.461	41	123	9.203	ug/l #	15
51) 4-Methyl-2-Pentanone	10.161	43	55	33.786	ug/l #	34
53) t-1,3-Dichloropropene	10.832	75	59	2.071	ug/l #	44
55) 1,1,2-Trichloroethane	10.944	97	99	6.442	ug/l #	16
59) 2-Hexanone	10.967	43	70	39.773	ug/l #	22
74) N-amyl acetate	12.279	43	162	10.936	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	1123	85.227	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	1123	182.095	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.402	75	61	22.714	ug/l #	4

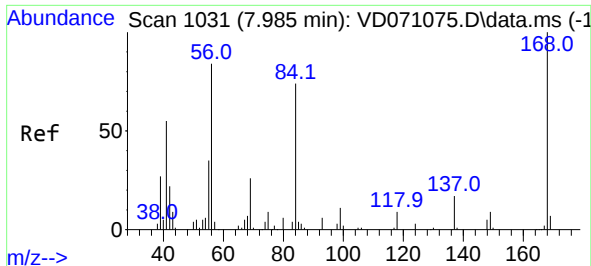
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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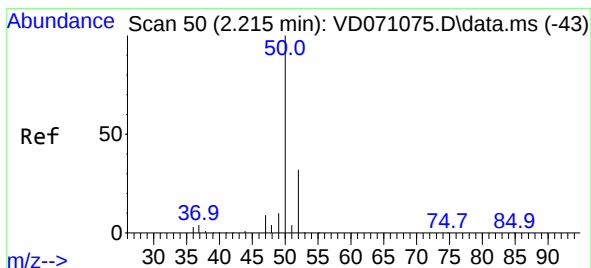
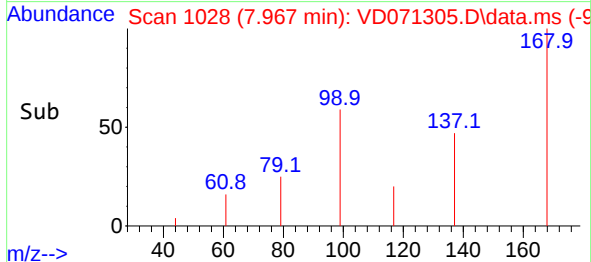
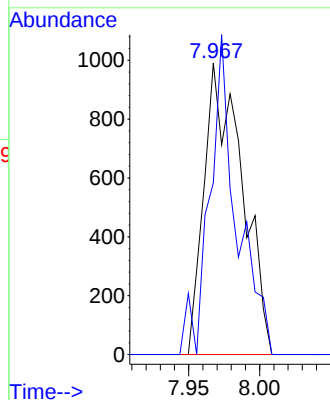
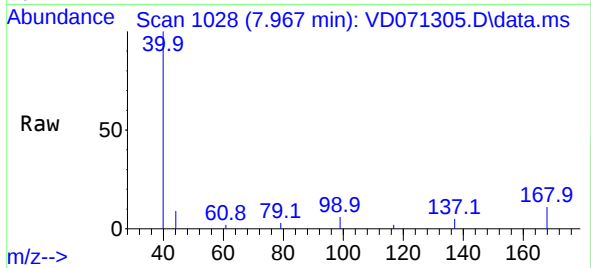




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.967 min Scan# 10
Delta R.T. -0.018 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

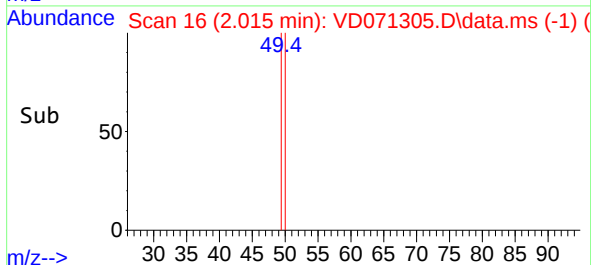
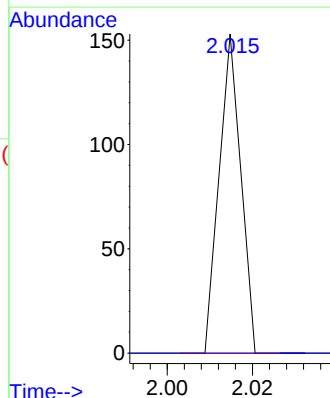
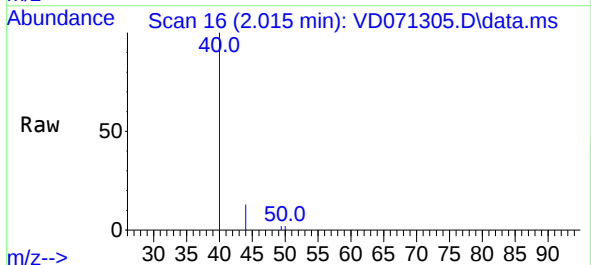
Instrument :
MSVOA_D
ClientSampleId :
TP13

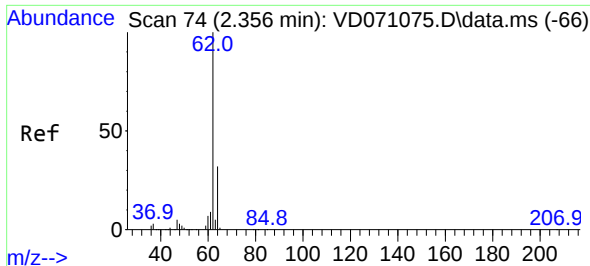
Tgt Ion:168 Resp: 1846
Ion Ratio Lower Upper
168 100
99 58.8 46.6 69.8



#3
Chloromethane
Concen: 2.593 ug/l
RT: 2.015 min Scan# 16
Delta R.T. -0.200 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 50 Resp: 54
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

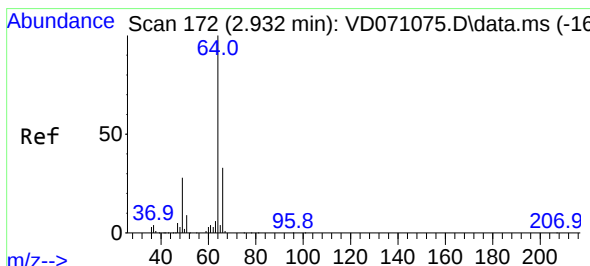
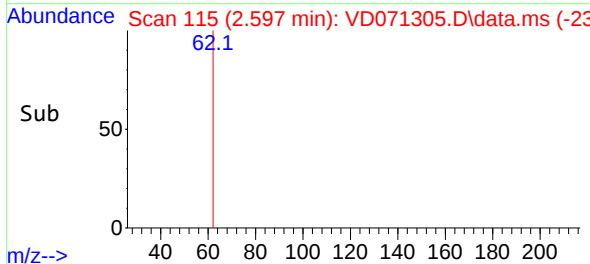
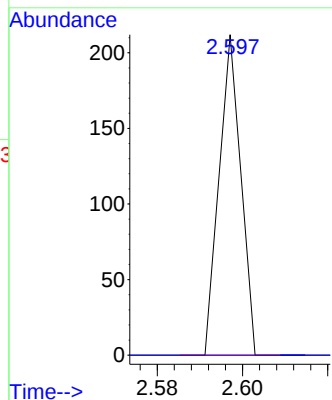
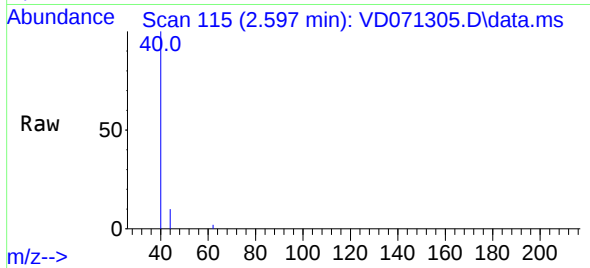




#4
 Vinyl Chloride
 Concen: 3.228 ug/l
 RT: 2.597 min Scan# 115
 Delta R.T. 0.241 min
 Lab File: VD071305.D
 Acq: 13 Dec 2021 19:16

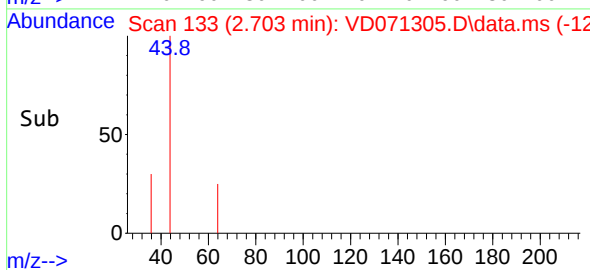
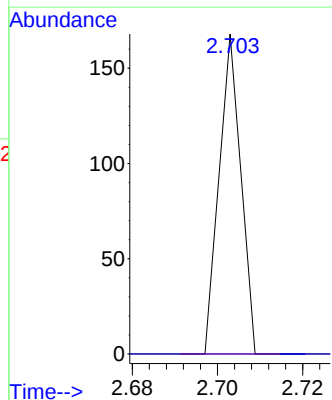
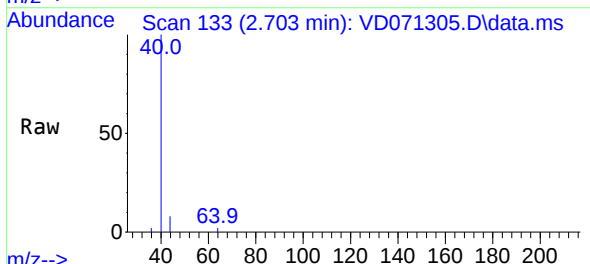
Instrument :
 MSVOA_D
 ClientSampleId :
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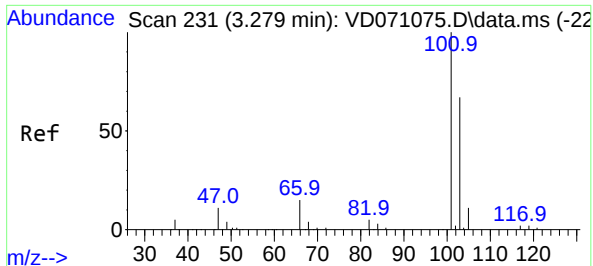
Tgt Ion: 62 Resp: 75
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.0 39.0#



#6
 Chloroethane
 Concen: 3.692 ug/l
 RT: 2.703 min Scan# 133
 Delta R.T. -0.229 min
 Lab File: VD071305.D
 Acq: 13 Dec 2021 19:16

Tgt Ion: 64 Resp: 59
 Ion Ratio Lower Upper
 64 100
 66 0.0 29.0 43.4#

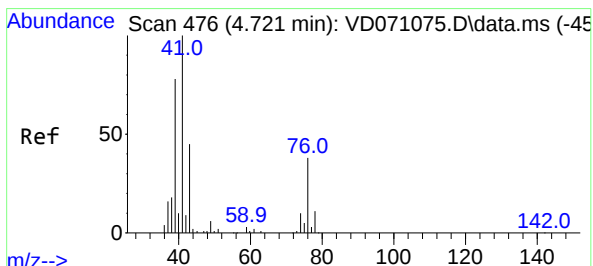
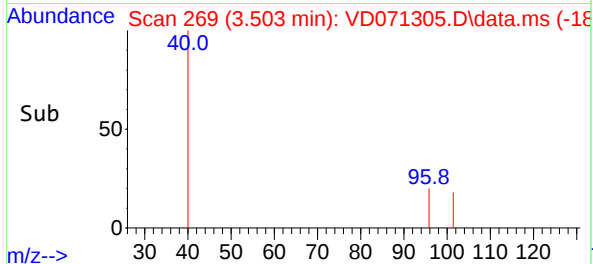
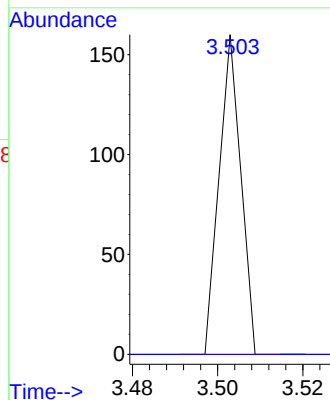
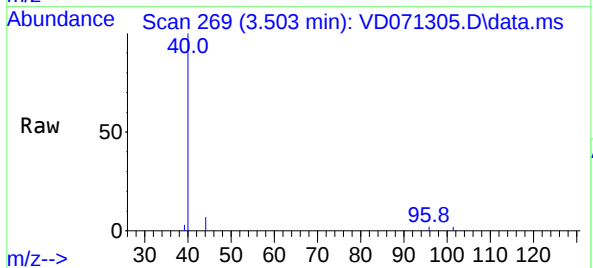




#7
Trichlorofluoromethane
Concen: 1.779 ug/l
RT: 3.503 min Scan# 20
Delta R.T. 0.224 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

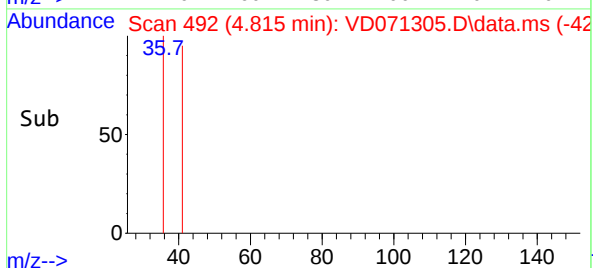
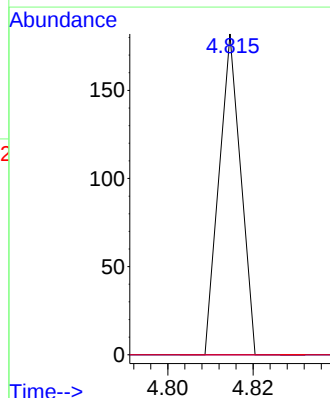
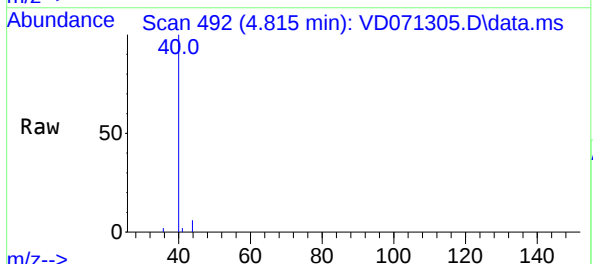
Instrument :
MSVOA_D
ClientSampleId :
TP13

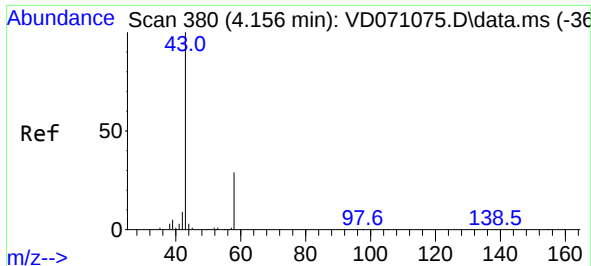
Tgt Ion:101 Resp: 56
Ion Ratio Lower Upper
101 100
103 0.0 49.7 74.5#



#14
Allyl chloride
Concen: 1.966 ug/l
RT: 4.815 min Scan# 492
Delta R.T. 0.094 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 41 Resp: 64
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
76 0.0 30.2 45.4#

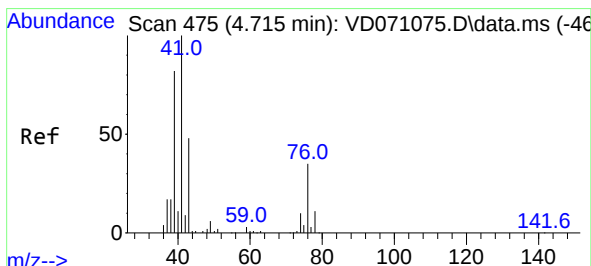
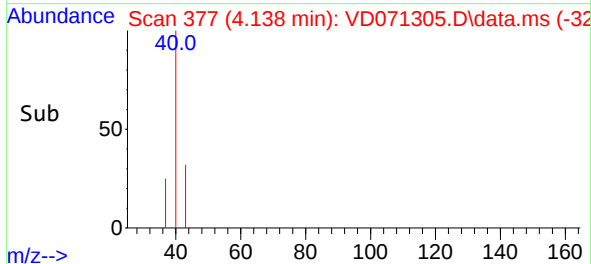
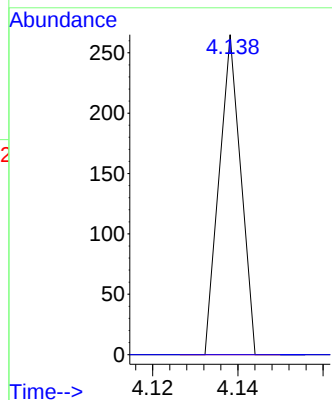
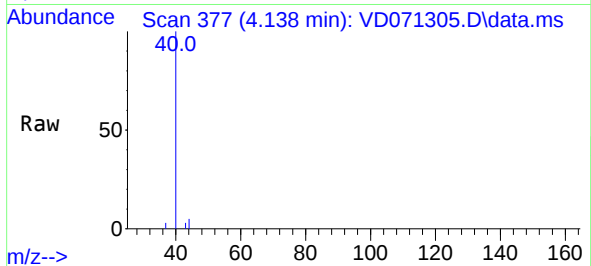




#16
Acetone
Concen: 45.126 ug/l
RT: 4.138 min Scan# 31
Delta R.T. -0.018 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

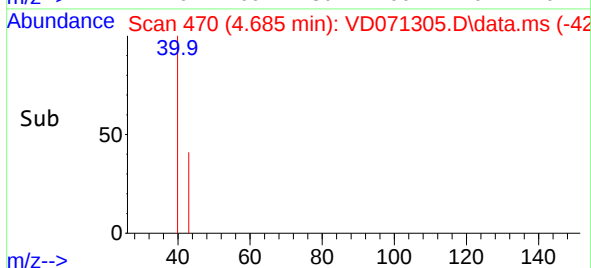
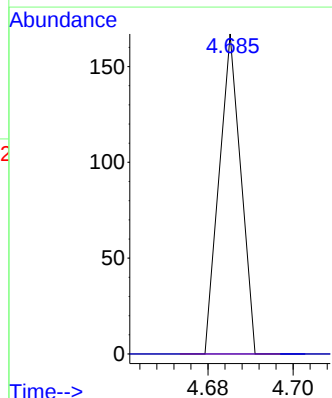
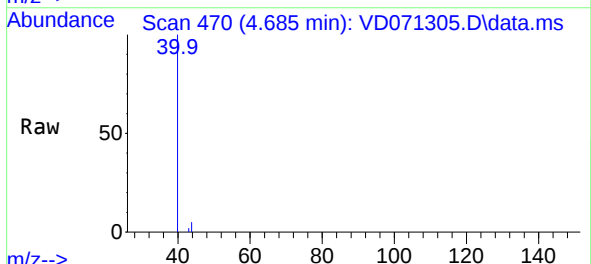
Instrument :
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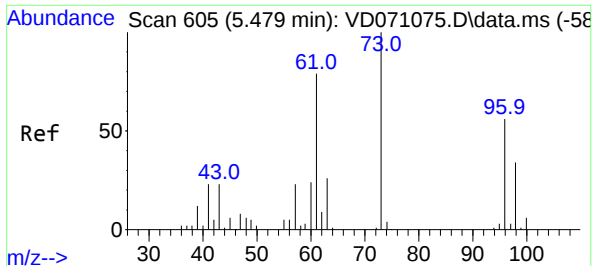
Tgt Ion: 43 Resp: 94
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#18
Methyl Acetate
Concen: 3.692 ug/l
RT: 4.685 min Scan# 470
Delta R.T. -0.030 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#

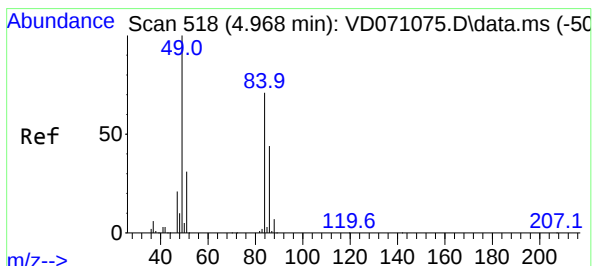
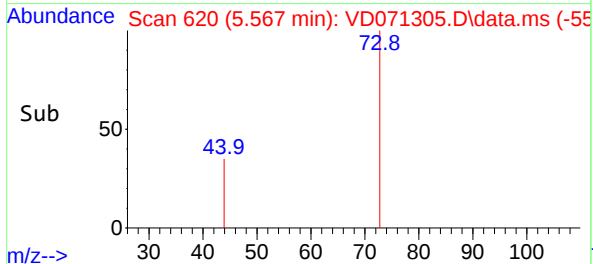
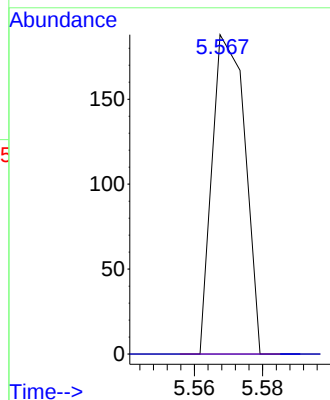
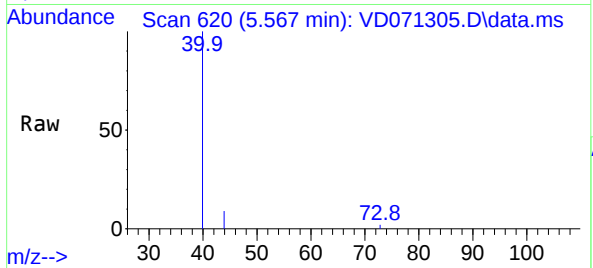




#19
Methyl tert-butyl Ether
Concen: 2.976 ug/l
RT: 5.567 min Scan# 61
Delta R.T. 0.088 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

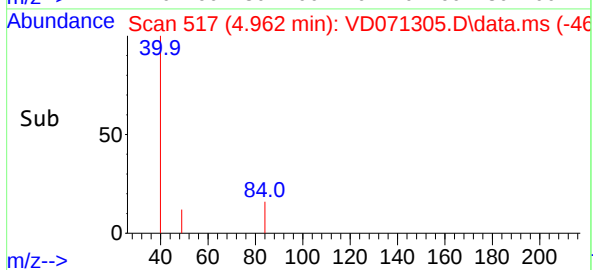
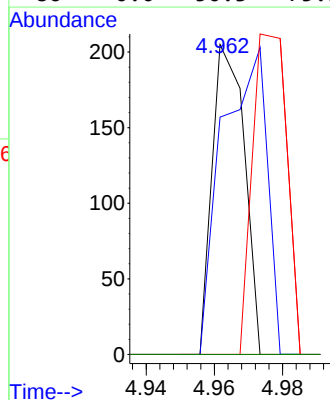
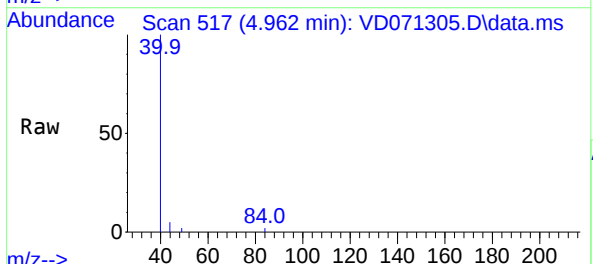
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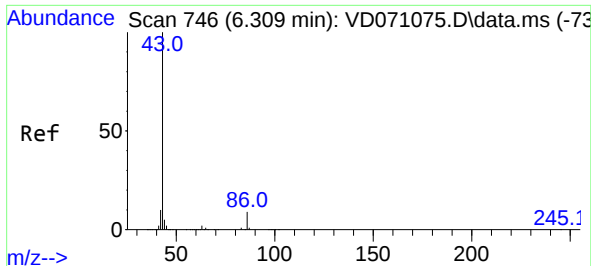
Tgt Ion: 73 Resp: 125
Ion Ratio Lower Upper
73 100
57 0.0 18.9 28.3#



#20
Methylene Chloride
Concen: 2.132 ug/l
RT: 4.962 min Scan# 517
Delta R.T. -0.006 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 84 Resp: 134
Ion Ratio Lower Upper
84 100
49 76.6 95.8 143.6#
51 0.0 30.9 46.3#
86 0.0 50.3 75.5#

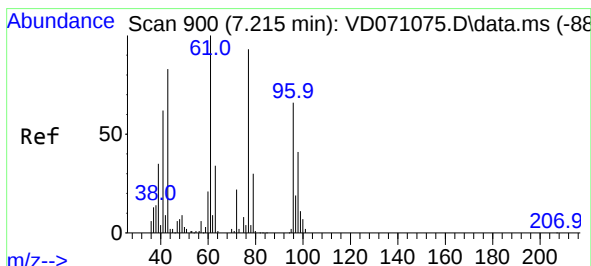
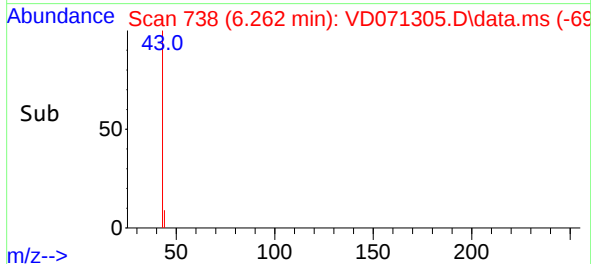
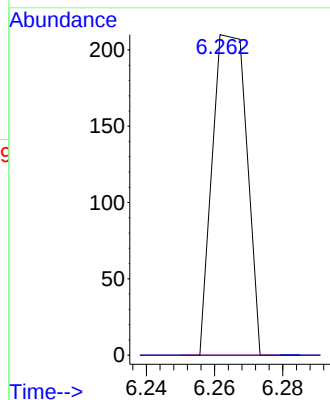
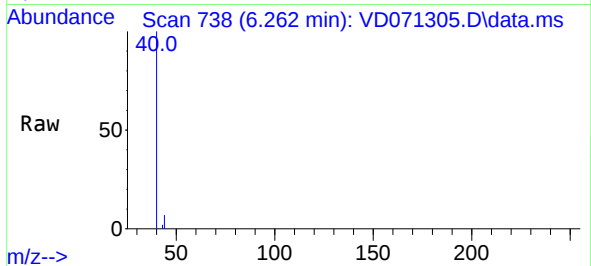




#23
 Vinyl Acetate
 Concen: 30.933 ug/l
 RT: 6.262 min Scan# 713
 Delta R.T. -0.047 min
 Lab File: VD071305.D
 Acq: 13 Dec 2021 19:16

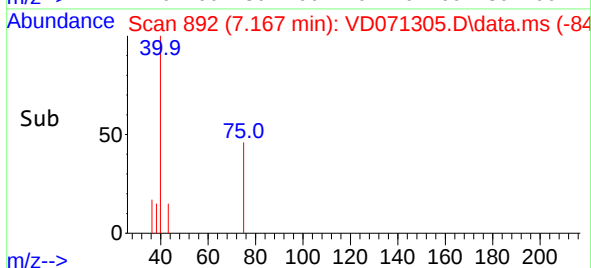
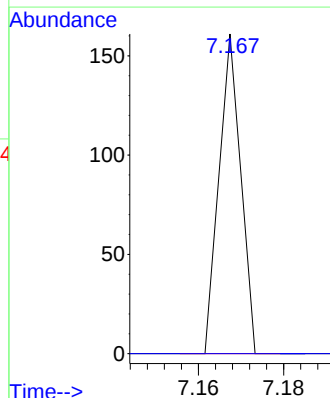
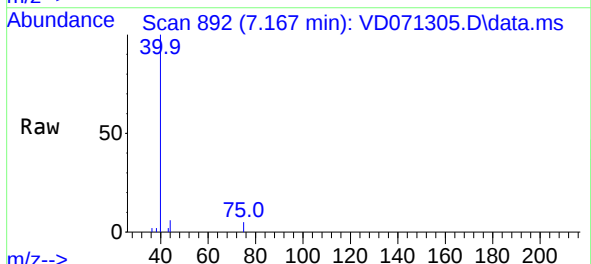
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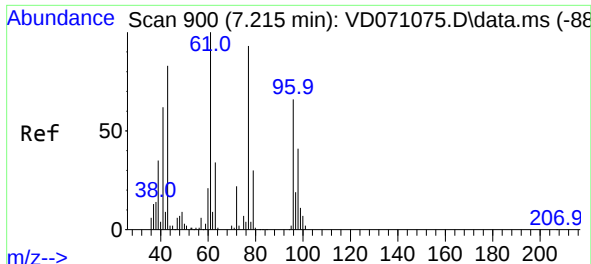
Tgt Ion: 43 Resp: 147
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 35.966 ug/l
 RT: 7.167 min Scan# 892
 Delta R.T. -0.048 min
 Lab File: VD071305.D
 Acq: 13 Dec 2021 19:16

Tgt Ion: 43 Resp: 57
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#27

cis-1,2-Dichloroethene

Concen: 2.658 ug/l

RT: 7.238 min Scan# 90

Delta R.T. 0.023 min

Lab File: VD071305.D

Acq: 13 Dec 2021 19:16

Instrument :

MSVOA_D

ClientSampleId :

TP13

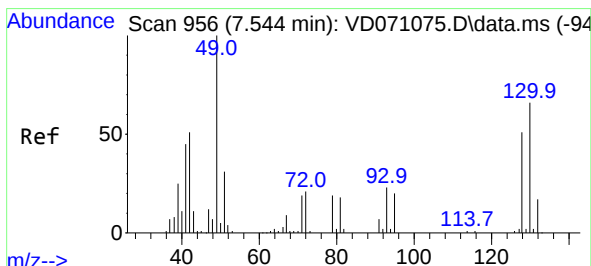
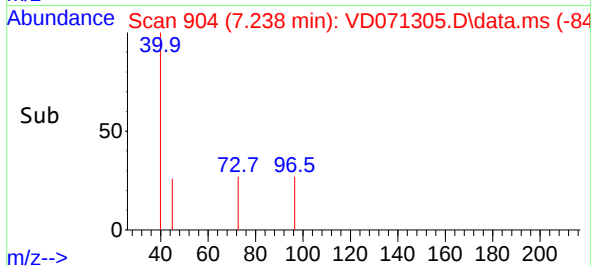
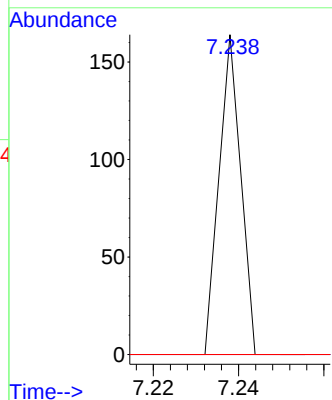
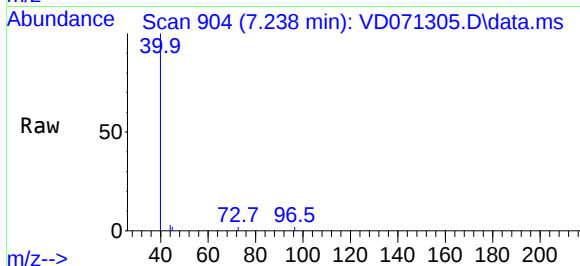
Tgt Ion: 96 Resp: 58

Ion Ratio Lower Upper

96 100

61 0.0 0.0 288.6

98 0.0 0.0 129.2



#28

Bromochloromethane

Concen: 3.744 ug/l

RT: 7.703 min Scan# 983

Delta R.T. 0.159 min

Lab File: VD071305.D

Acq: 13 Dec 2021 19:16

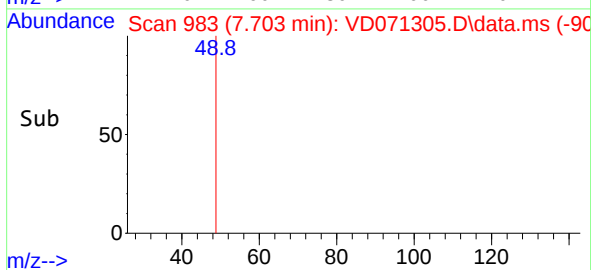
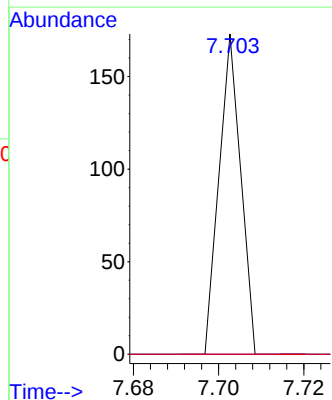
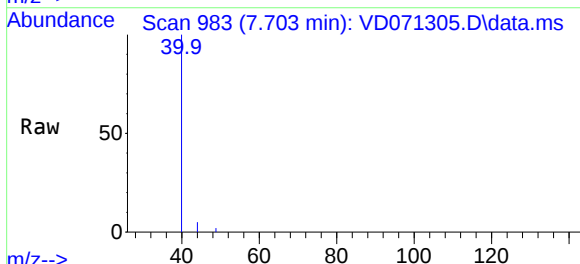
Tgt Ion: 49 Resp: 61

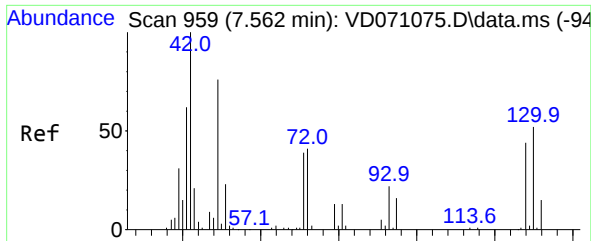
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 60.2 90.2#

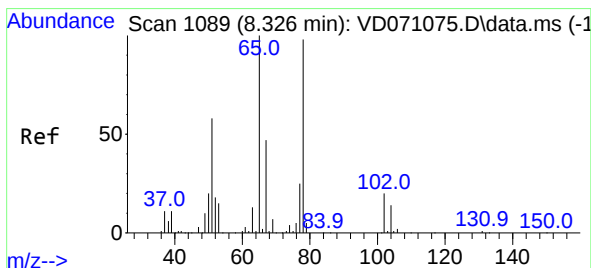
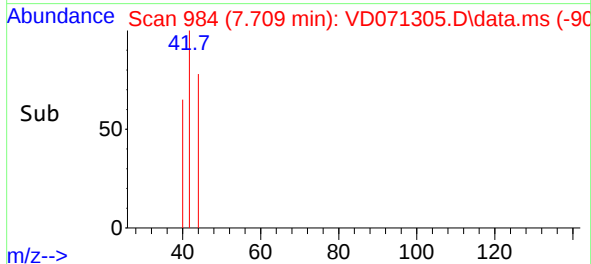
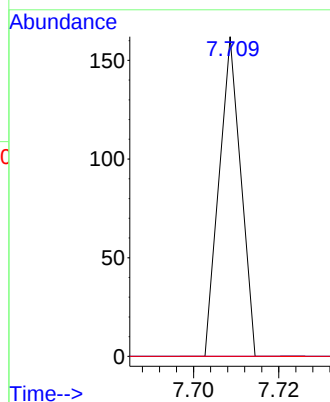
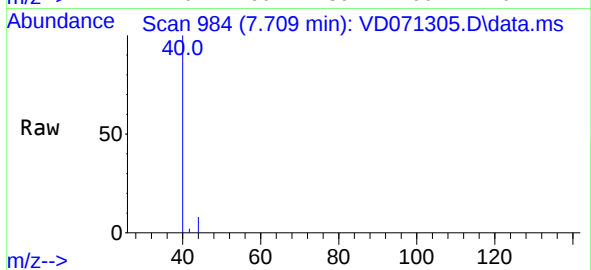




#29
Tetrahydrofuran
Concen: 16.572 ug/l
RT: 7.709 min Scan# 984
Delta R.T. 0.147 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

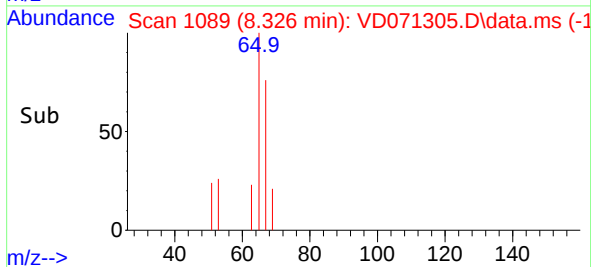
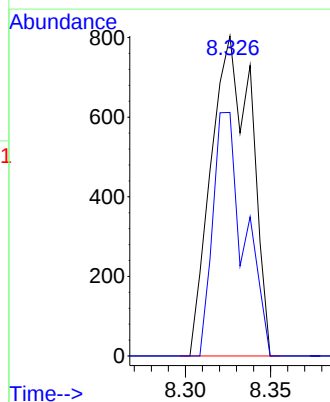
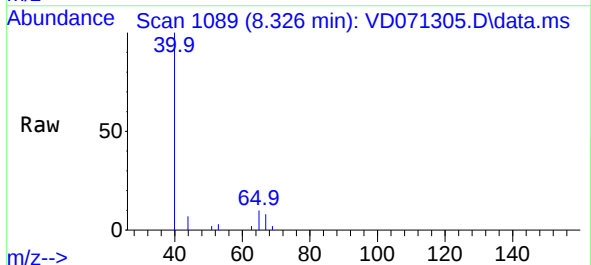
Instrument :
MSVOA_D
ClientSampleId :
TP13

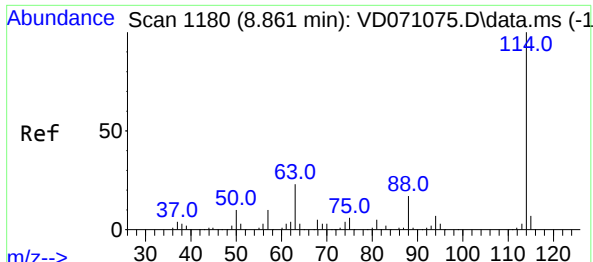
Tgt Ion:	42	Resp:	57
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#33
1,2-Dichloroethane-d4
Concen: 60.894 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion:	65	Resp:	1319
Ion	Ratio	Lower	Upper
65	100		
67	59.2	0.0	112.2

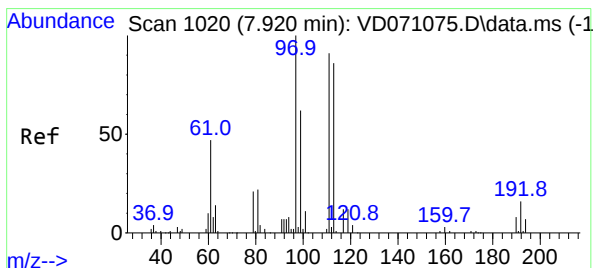
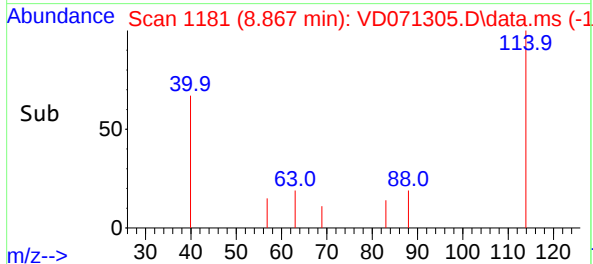
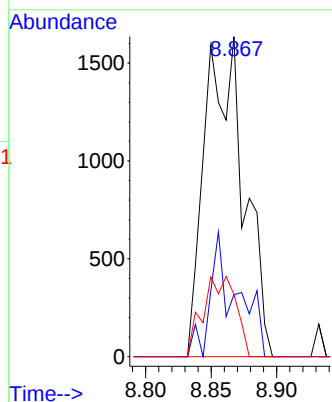
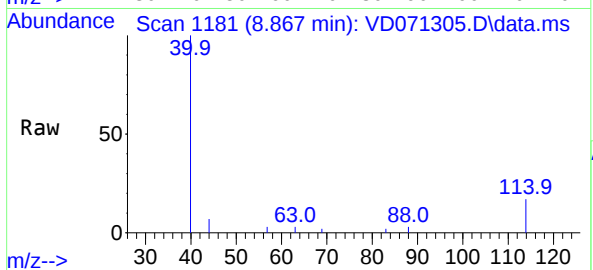




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.867 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

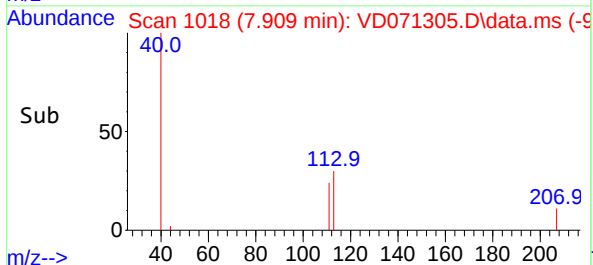
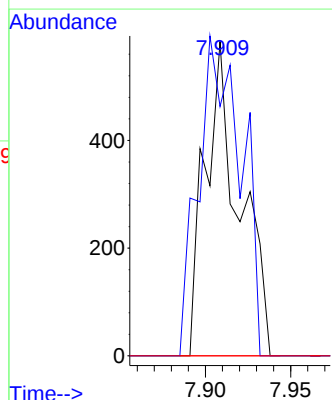
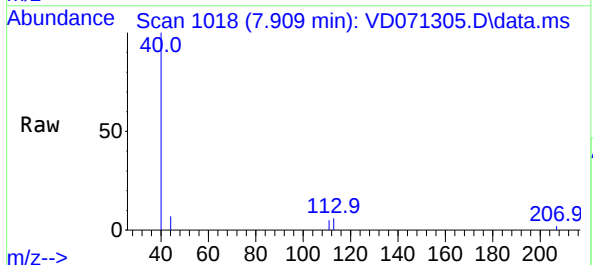
Instrument :
MSVOA_D
ClientSampleId :
TP13

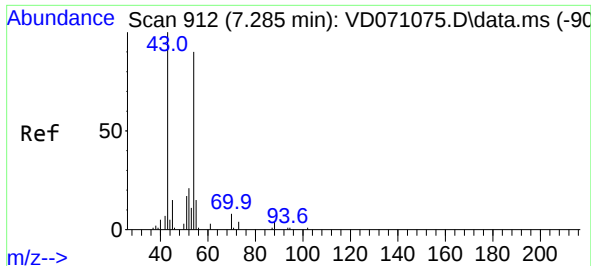
Tgt Ion:114	Resp:	3382
Ion Ratio	Lower	Upper
114	100	
63	19.4	0.0 41.8
88	19.4	0.0 32.8



#35
Dibromofluoromethane
Concen: 38.168 ug/l
RT: 7.909 min Scan# 1018
Delta R.T. -0.011 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion:113	Resp:	822
Ion Ratio	Lower	Upper
113	100	
111	125.3	82.0 123.0#
192	0.0	15.2 22.8#





#37

Ethyl Acetate

Concen: 6.152 ug/l

RT: 7.279 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD071305.D

Acq: 13 Dec 2021 19:16

Instrument :

MSVOA_D

ClientSampleId :

TP13

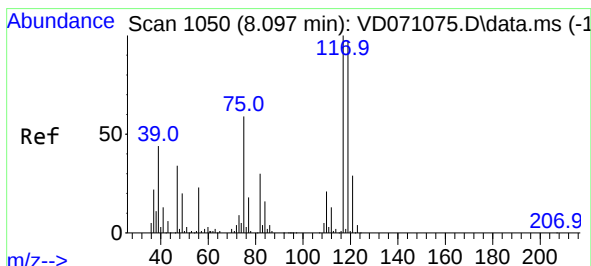
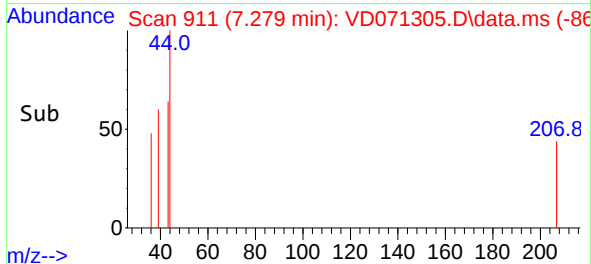
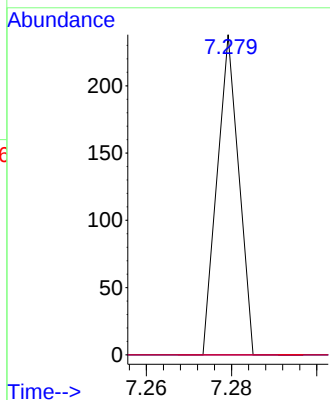
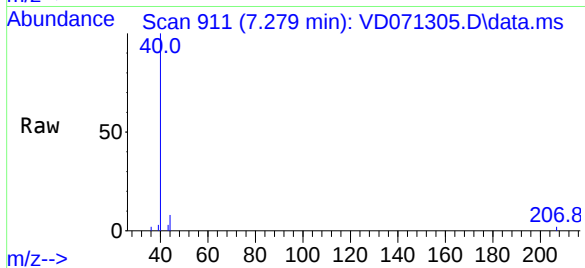
Tgt Ion: 43 Resp: 84

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

70 0.0 8.7 13.1#



#38

Carbon Tetrachloride

Concen: 6.900 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. -0.112 min

Lab File: VD071305.D

Acq: 13 Dec 2021 19:16

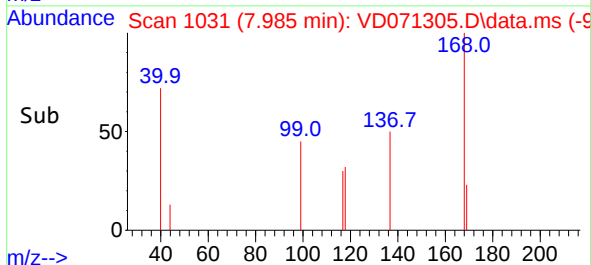
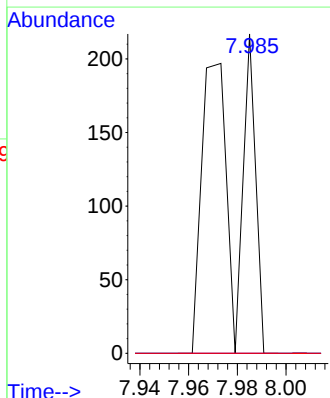
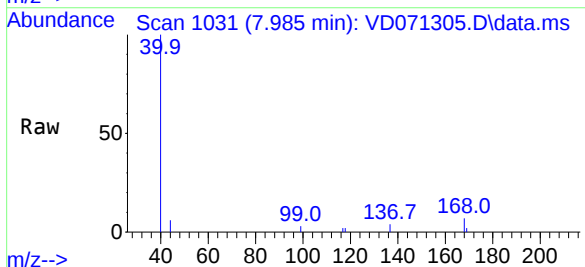
Tgt Ion: 117 Resp: 215

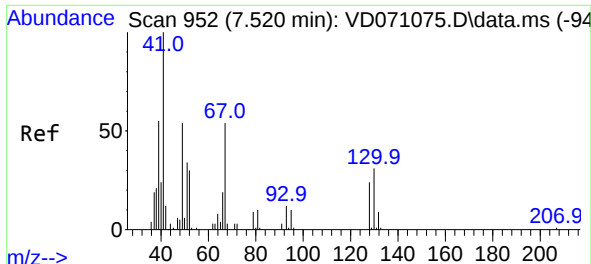
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 23.6 35.4#

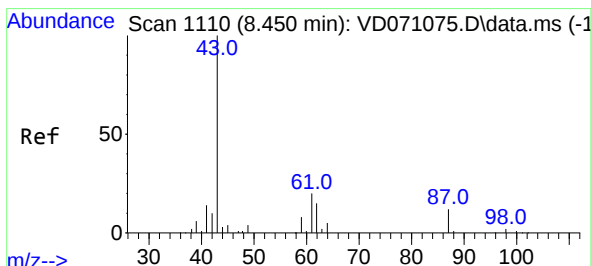
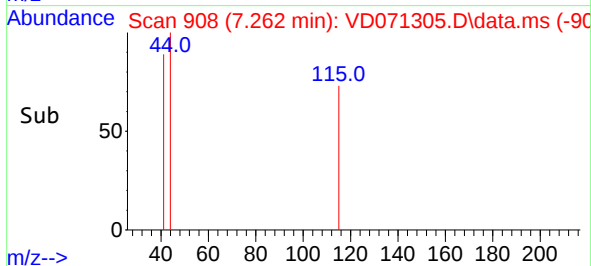
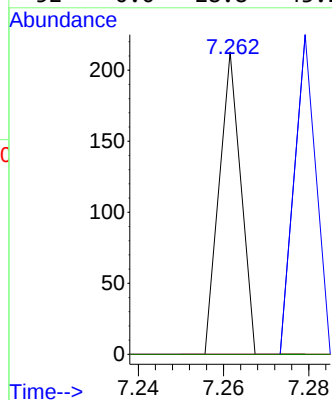
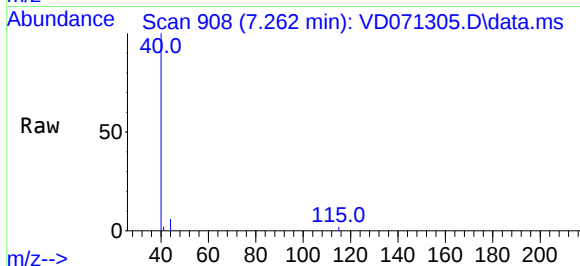




#41
Methacrylonitrile
Concen: 8.994 ug/l
RT: 7.262 min Scan# 90
Delta R.T. -0.258 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

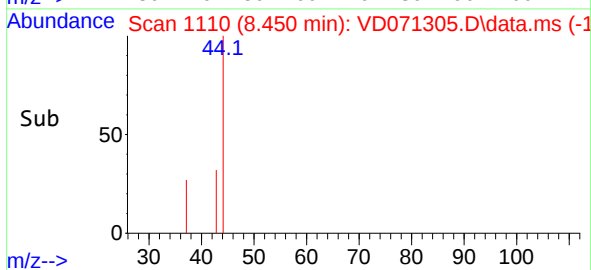
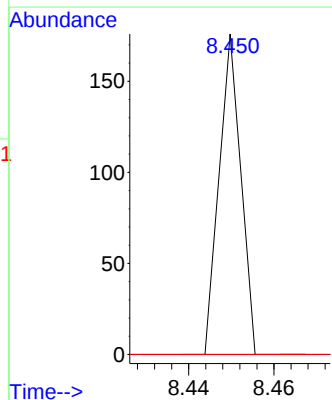
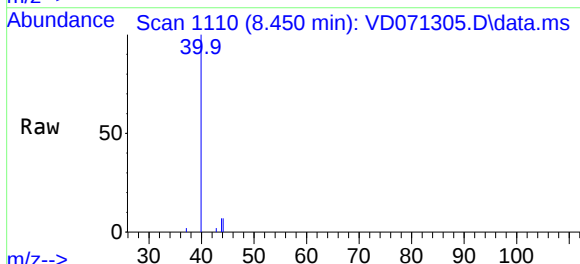
Instrument :
MSVOA_D
ClientSampleId :
TP13

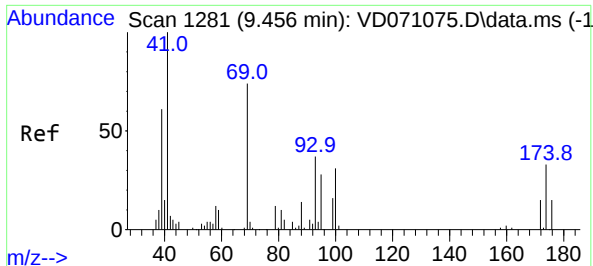
Tgt Ion:	41	Resp:	75
Ion	Ratio	Lower	Upper
41	100		
39	177.3	60.2	90.4#
67	0.0	74.8	112.2#
52	0.0	28.8	43.2#



#43
Isopropyl Acetate
Concen: 7.071 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion:	43	Resp:	62
Ion	Ratio	Lower	Upper
43	100		
61	0.0	28.2	42.4#
87	0.0	10.7	16.1#

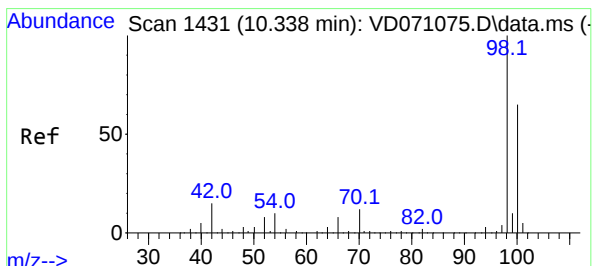
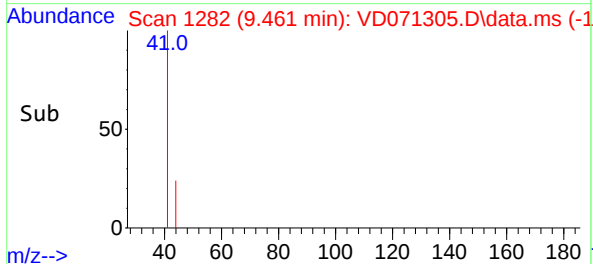
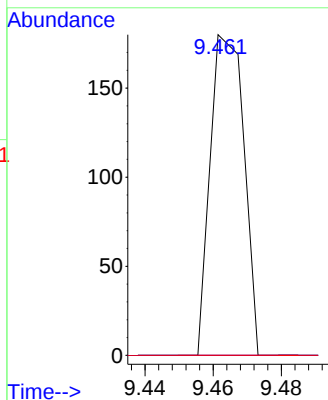
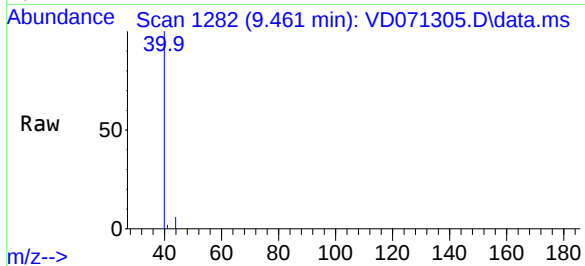




#48
Methyl methacrylate
Concen: 9.203 ug/l
RT: 9.461 min Scan# 11
Delta R.T. 0.005 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

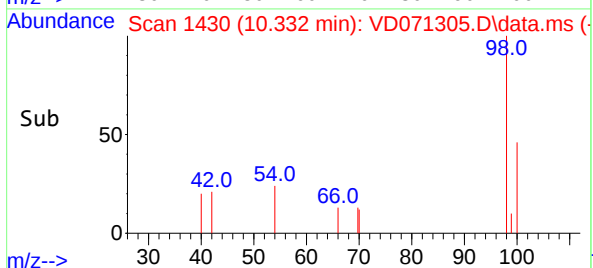
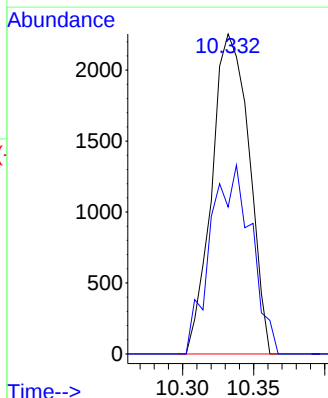
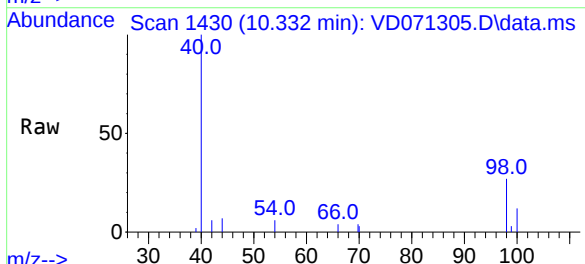
Instrument :
MSVOA_D
ClientSampleId :
TP13

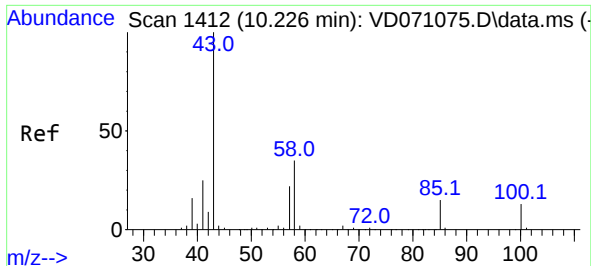
Tgt Ion: 41 Resp: 123
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 0.0 35.6 53.4#



#50
Toluene-d8
Concen: 50.197 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 98 Resp: 4114
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.6

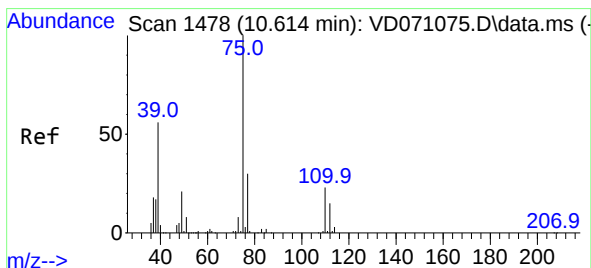
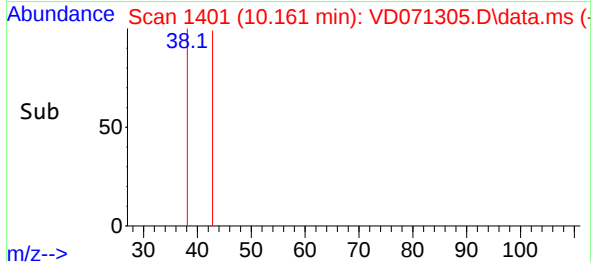
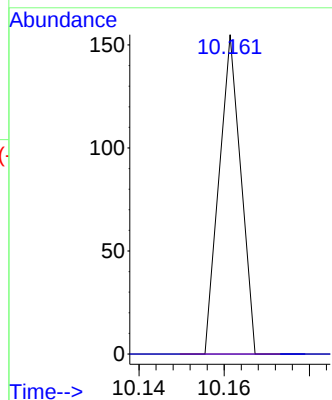
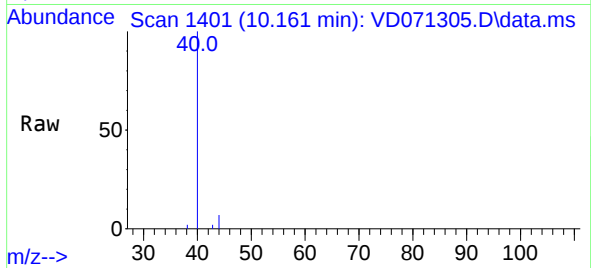




#51
4-Methyl-2-Pentanone
Concen: 33.786 ug/l
RT: 10.161 min Scan# 1412
Delta R.T. -0.065 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

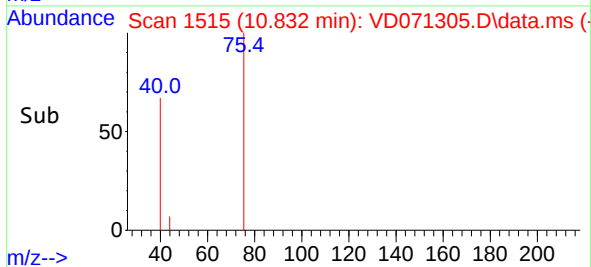
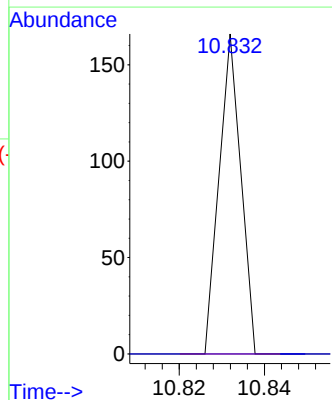
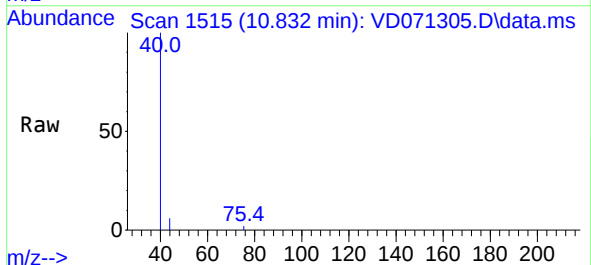
Instrument :
MSVOA_D
ClientSampleId :
TP13

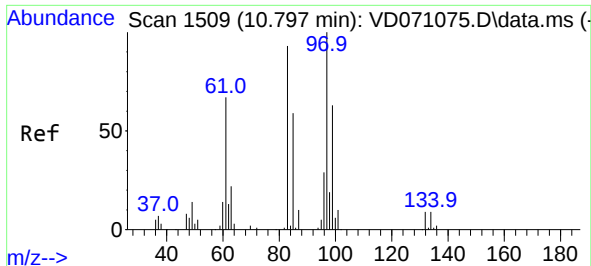
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#53
t-1,3-Dichloropropene
Concen: 2.071 ug/l
RT: 10.832 min Scan# 1515
Delta R.T. 0.218 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 75 Resp: 59
Ion Ratio Lower Upper
75 100
77 0.0 24.5 36.7#

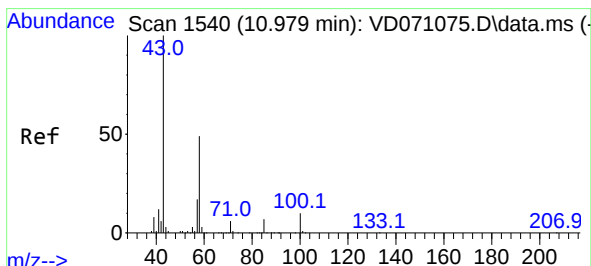
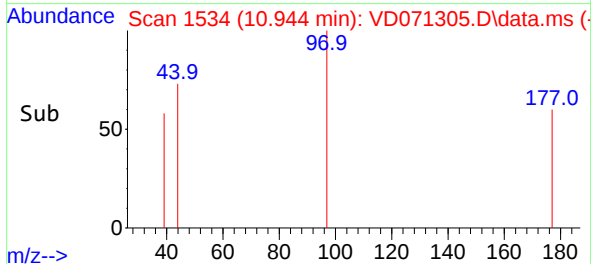
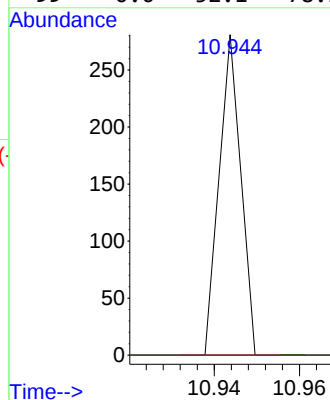
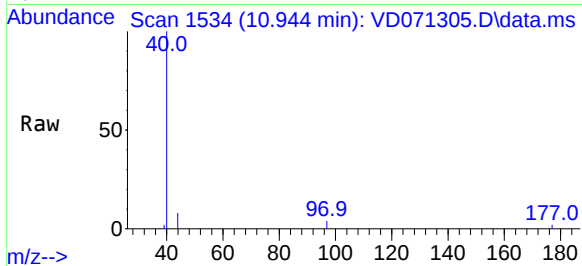




#55
1,1,2-Trichloroethane
Concen: 6.442 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. 0.147 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

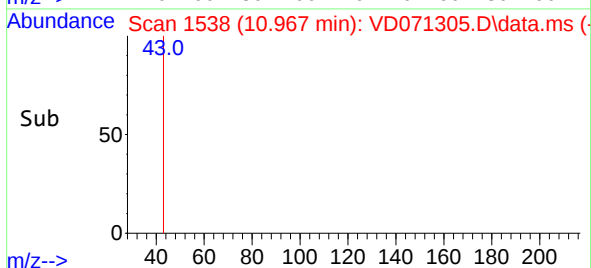
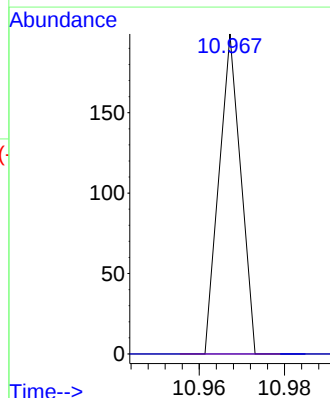
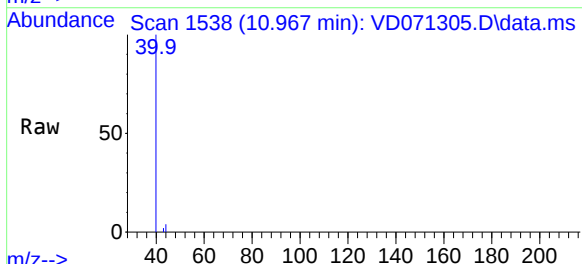
Instrument :
MSVOA_D
ClientSampleId :
TP13

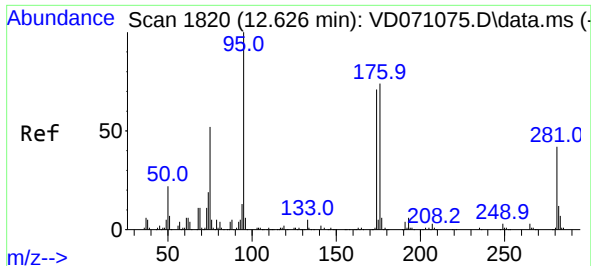
Tgt Ion: 97	Resp:	99
Ion	Ratio	Lower Upper
97	100	
83	0.0	65.2 97.8#
85	0.0	43.4 65.0#
99	0.0	52.1 78.1#



#59
2-Hexanone
Concen: 39.773 ug/l
RT: 10.967 min Scan# 1538
Delta R.T. -0.012 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 43	Resp:	70
Ion	Ratio	Lower Upper
43	100	
58	0.0	28.7 86.1#

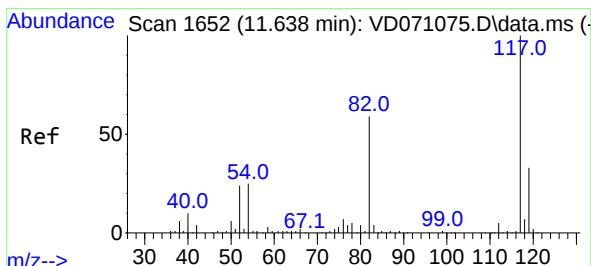
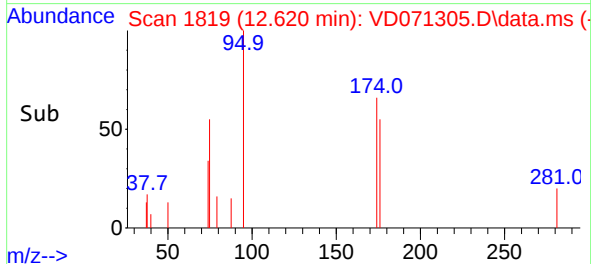
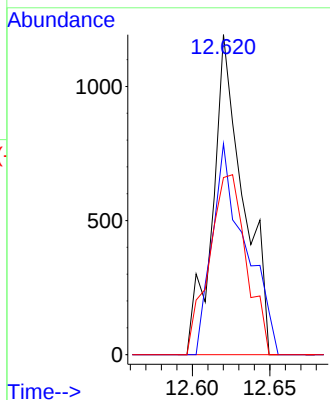
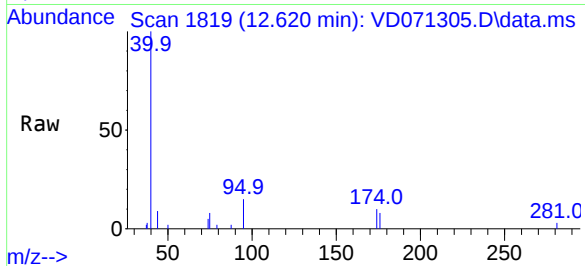




#62
4-Bromofluorobenzene
Concen: 57.798 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

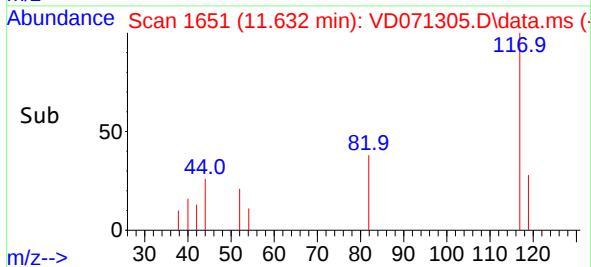
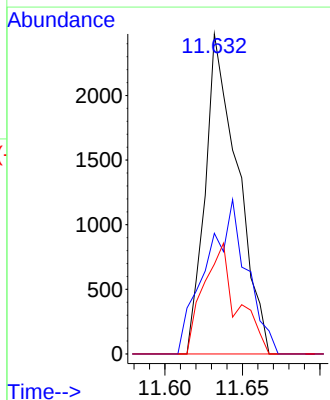
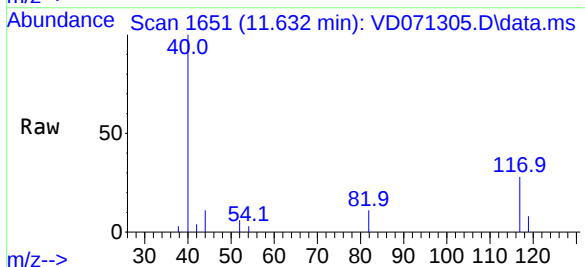
Instrument :
MSVOA_D
ClientSampleId :
TP13

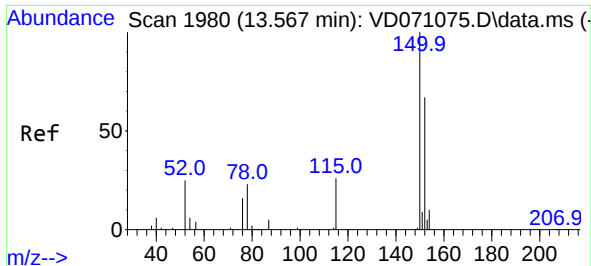
Tgt Ion:	95	Resp:	1642
Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	159.4
176	68.1	0.0	154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 1651
Delta R.T. -0.006 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion:	117	Resp:	3600
Ion	Ratio	Lower	Upper
117	100		
82	37.7	44.7	67.1#
119	28.1	26.2	39.4

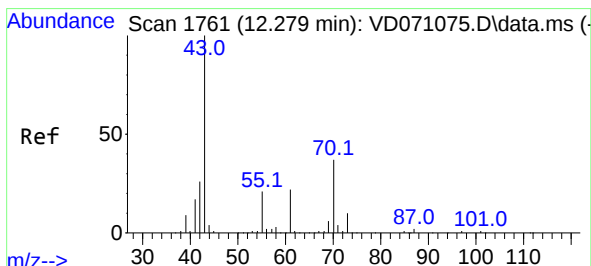
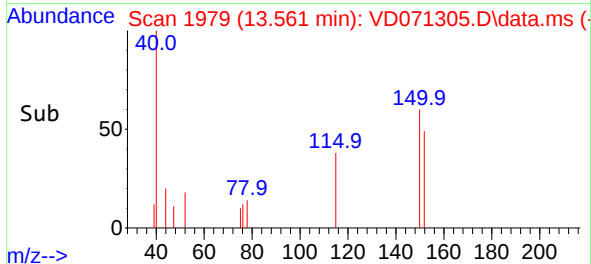
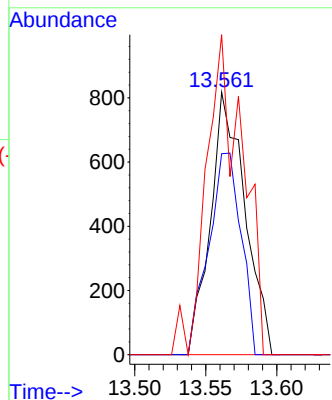
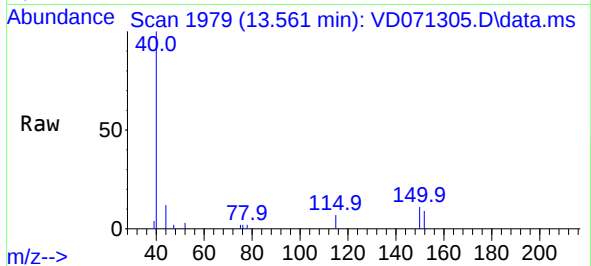




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

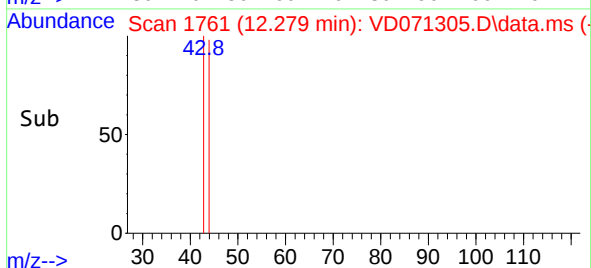
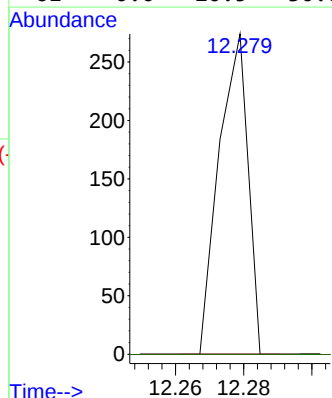
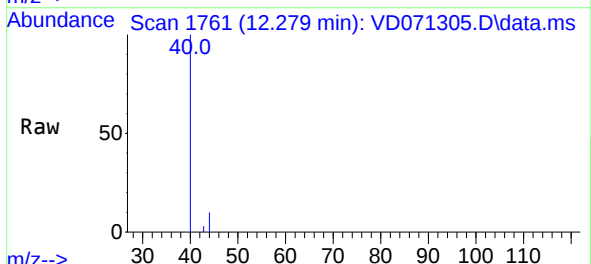
Instrument :
MSVOA_D
ClientSampleId :
TP13

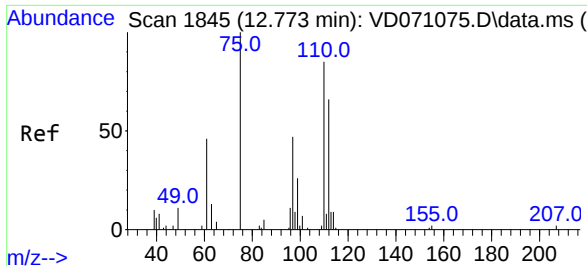
Tgt Ion:152 Resp: 1383
Ion Ratio Lower Upper
152 100
115 72.1 29.8 89.3
150 128.5 0.0 349.2



#74
N-ethyl acetate
Concen: 10.936 ug/l
RT: 12.279 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 43 Resp: 162
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

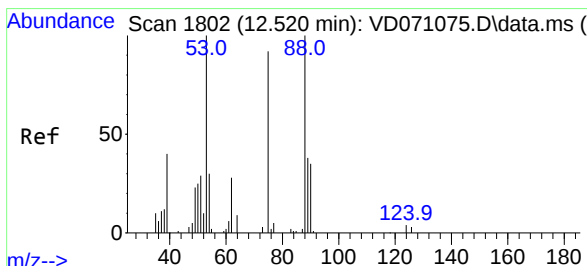
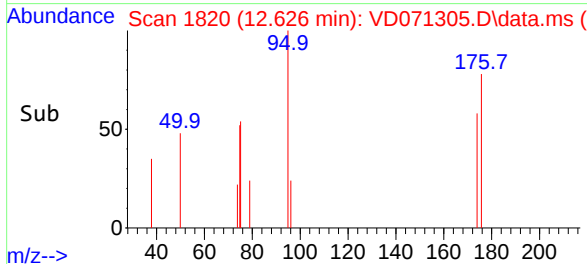
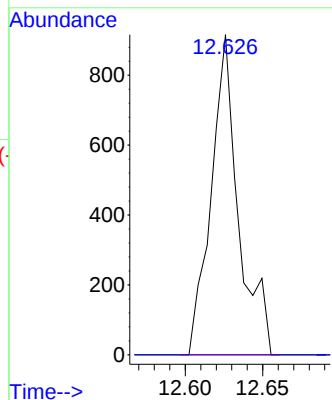
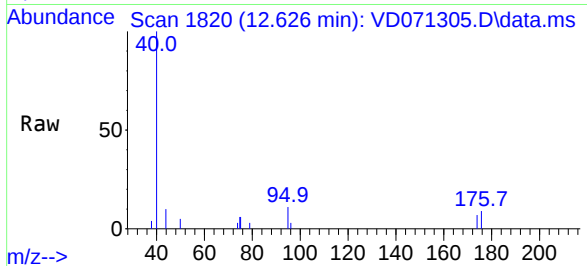




#76
1,2,3-Trichloropropane
Concen: 85.227 ug/l
RT: 12.626 min Scan# 1845
Delta R.T. -0.147 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

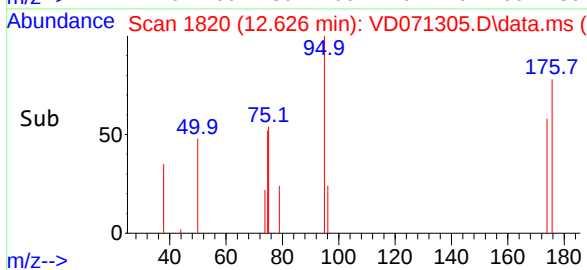
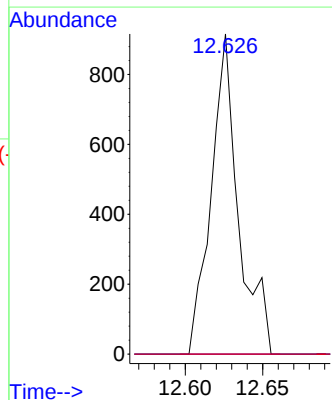
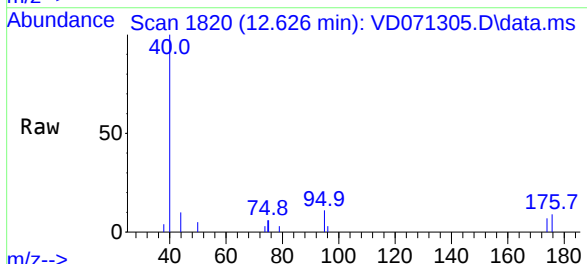
Instrument :
MSVOA_D
ClientSampleId :
TP13

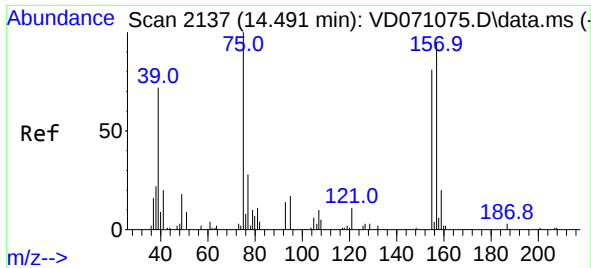
Tgt Ion: 75 Resp: 1123
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 182.095 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Tgt Ion: 75 Resp: 1123
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#





#92
1,2-Dibromo-3-Chloropropane
Concen: 22.714 ug/l
RT: 14.402 min Scan# 21
Delta R.T. -0.089 min
Lab File: VD071305.D
Acq: 13 Dec 2021 19:16

Instrument :
MSVOA_D
ClientSampleId :
TP13

Tgt Ion: 75 Resp: 61
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#

