

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD123021\
 Data File : VD071556.D
 Acq On : 30 Dec 2021 18:31
 Operator : VA/SY
 Sample : M5256-01
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-03-122921

Quant Time: Dec 31 06:56:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 23 08:20:24 2021
 Response via : Initial Calibration

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

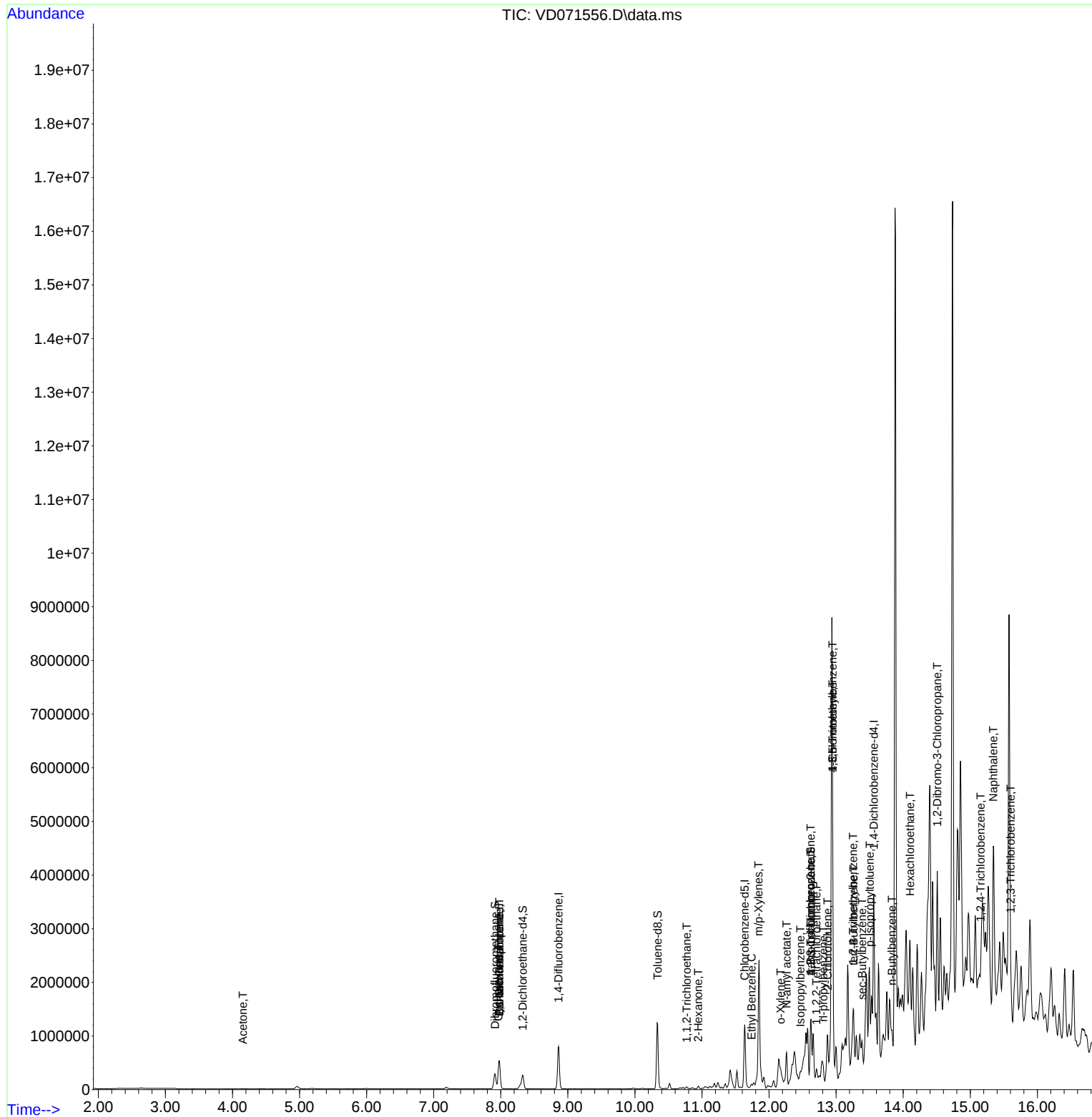
Internal Standards						
1) Pentafluorobenzene	7.979	168	363068	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	617725	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	616258	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	305508	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	197746	41.010	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	82.020%		
35) Dibromofluoromethane	7.914	113	195450	47.078	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.160%		
50) Toluene-d8	10.338	98	783607	49.946	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	99.900%		
62) 4-Bromofluorobenzene	12.620	95	307544	55.164	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	110.320%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.197	59	10647	Below Cal	#	76
16) Acetone	4.156	43	7878	6.505	ug/l #	72
31) Cyclohexane	7.967	56	11331	1.383	ug/l #	46
36) 1,1-Dichloropropene	7.979	75	34169	5.152	ug/l #	50
38) Carbon Tetrachloride	7.979	117	41019	6.268	ug/l #	18
55) 1,1,2-Trichloroethane	10.773	97	12135	3.740	ug/l #	23
59) 2-Hexanone	10.944	43	18864	8.347	ug/l #	25
67) Ethyl Benzene	11.738	91	30204	1.284	ug/l	95
68) m/p-Xylenes	11.844	106	66781	7.472	ug/l	89
69) o-Xylene	12.173	106	45792	5.605	ug/l	89
73) Isopropylbenzene	12.467	105	43399	1.843	ug/l	99
74) N-amyl acetate	12.261	43	143123	22.649	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.708	83	6758	1.587	ug/l #	25
76) 1,2,3-Trichloropropane	12.620	75	174010	47.937	ug/l #	1
78) n-propylbenzene	12.808	91	154167	5.222	ug/l	99
79) 2-Chlorotoluene	12.873	91	48580	2.944	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.949	105	277614	14.290	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.620	75	174010	135.447	ug/l #	18
82) 4-Chlorotoluene	12.949	91	34164	1.996	ug/l #	56
83) tert-Butylbenzene	13.261	119	69727	4.200	ug/l #	57
84) 1,2,4-Trimethylbenzene	13.255	105	591673	30.772	ug/l	99
85) sec-Butylbenzene	13.390	105	145492	5.749	ug/l	87
86) p-Isopropyltoluene	13.502	119	94775	4.513	ug/l	97
89) n-Butylbenzene	13.832	91	186200	9.034	ug/l #	82
90) Hexachloroethane	14.102	117	48310	12.144	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.508	75	3380	4.577	ug/l #	27
93) 1,2,4-Trichlorobenzene	15.155	180	6815	1.248	ug/l #	1
95) Naphthalene	15.343	128	21078	2.029	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.602	180	20996	4.447	ug/l #	13

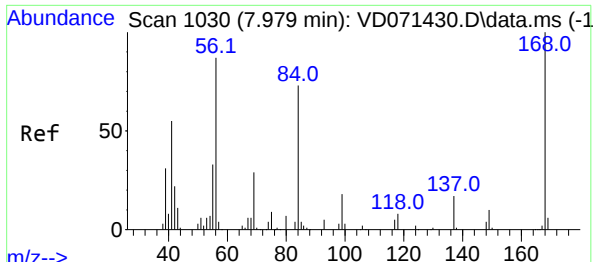
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD071556.D
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Sample : M5256-01
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Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

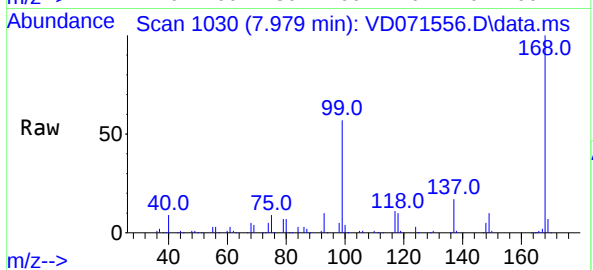
Quant Time: Dec 31 06:56:35 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 23 08:20:24 2021
Response via : Initial Calibration



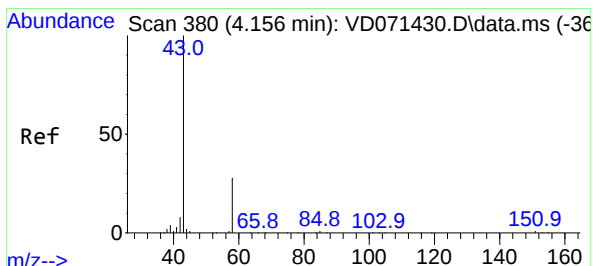
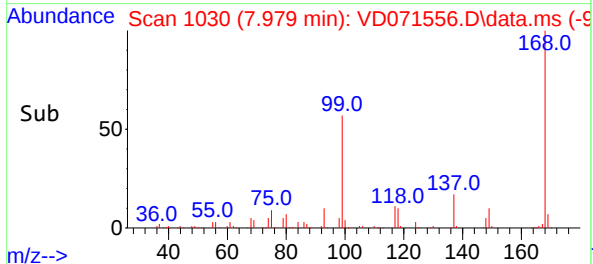
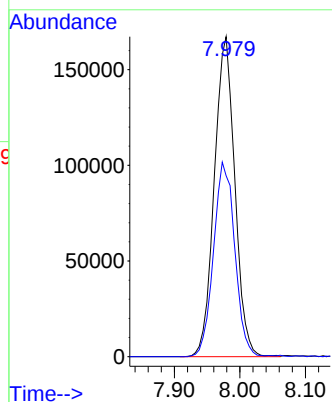


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.006 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

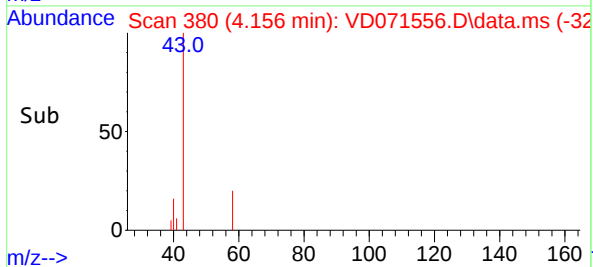
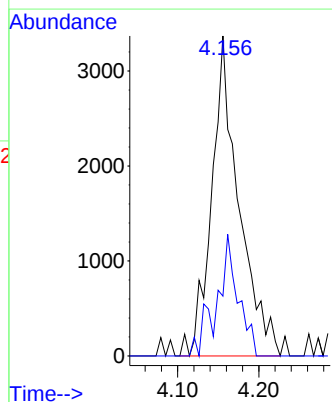
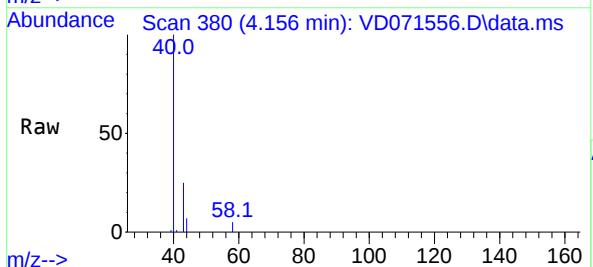


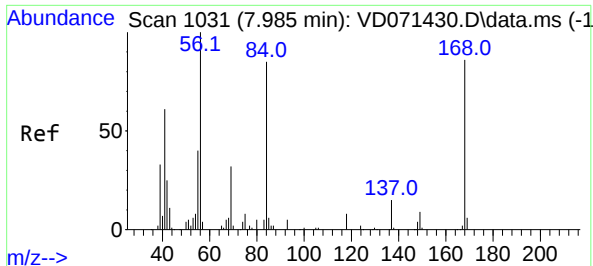
Tgt Ion:168 Resp: 363068
Ion Ratio Lower Upper
168 100
99 56.6 46.6 69.8



#16
Acetone
Concen: 6.505 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 43 Resp: 7878
Ion Ratio Lower Upper
43 100
58 18.7 27.8 41.8#

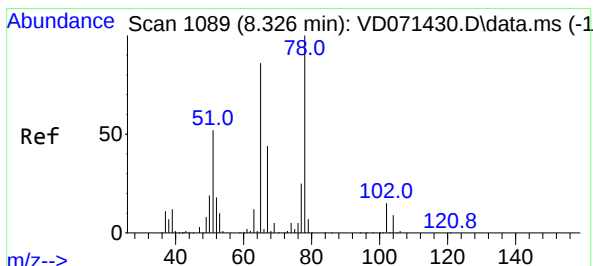
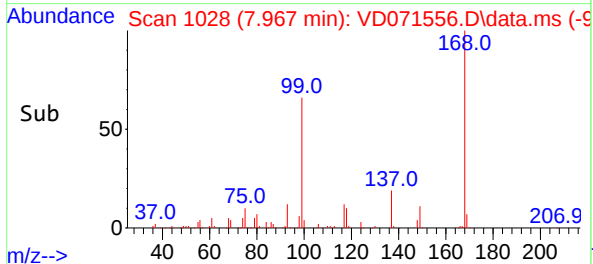
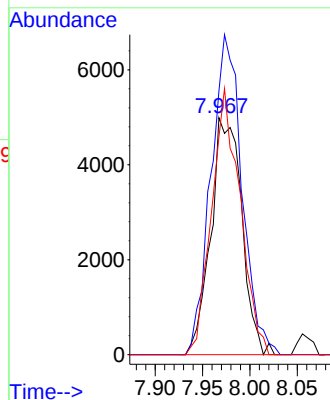
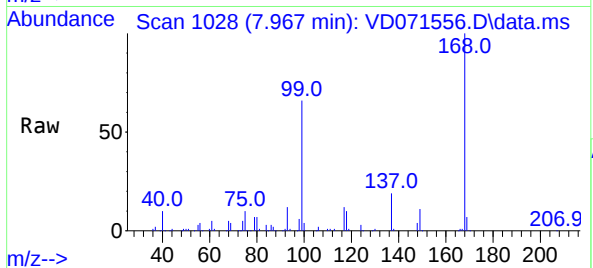




#31
Cyclohexane
Concen: 1.383 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.018 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

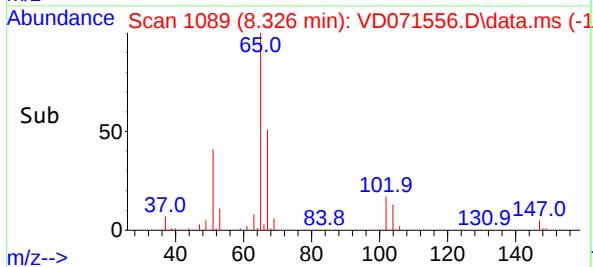
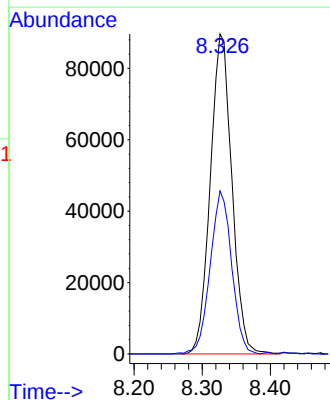
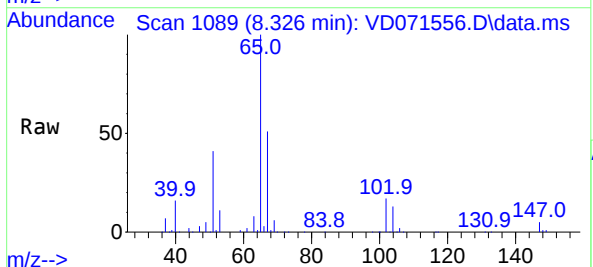
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

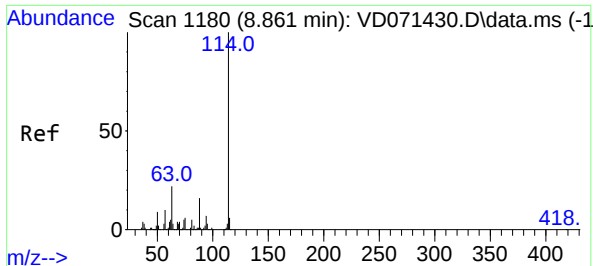
Tgt Ion: 56 Resp: 11331
Ion Ratio Lower Upper
56 100
69 111.2 25.9 38.9#
84 96.9 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 41.010 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 65 Resp: 197746
Ion Ratio Lower Upper
65 100
67 50.7 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071556.D

Acq: 30 Dec 2021 18:31

Instrument :

MSVOA_D

ClientSampleId :

BU-03-122921

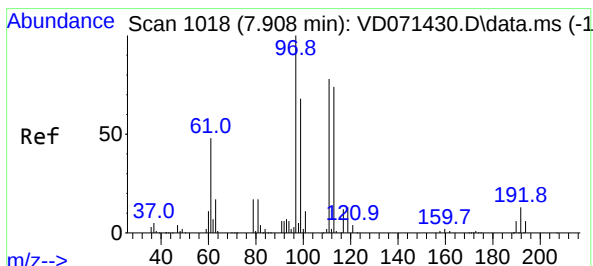
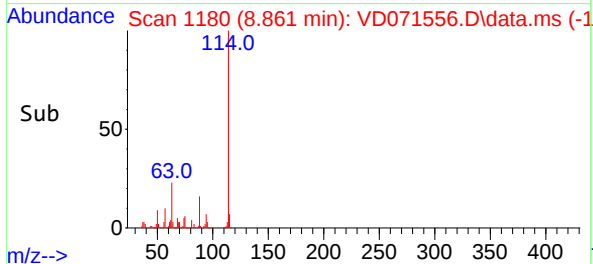
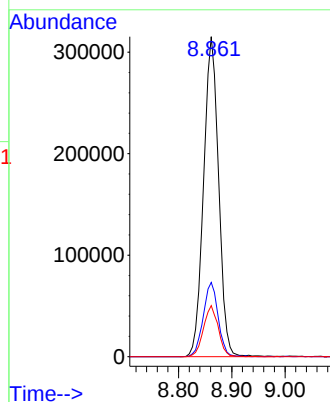
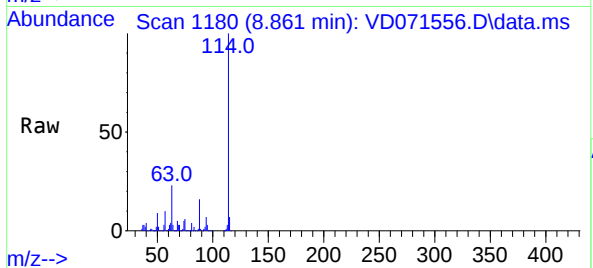
Tgt Ion:114 Resp: 617725

Ion Ratio Lower Upper

114 100

63 23.2 0.0 41.8

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 47.078 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.006 min

Lab File: VD071556.D

Acq: 30 Dec 2021 18:31

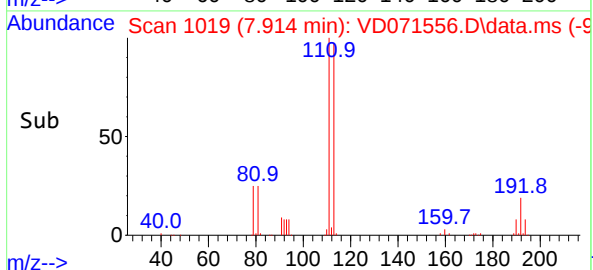
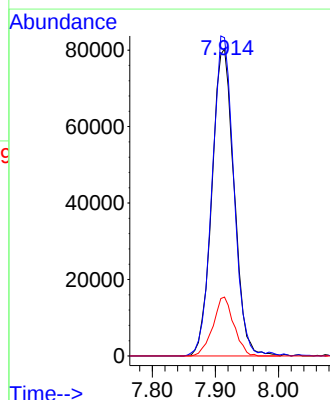
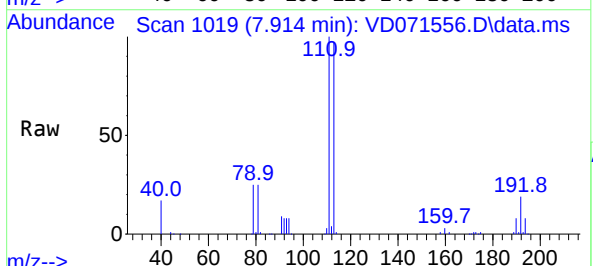
Tgt Ion:113 Resp: 195450

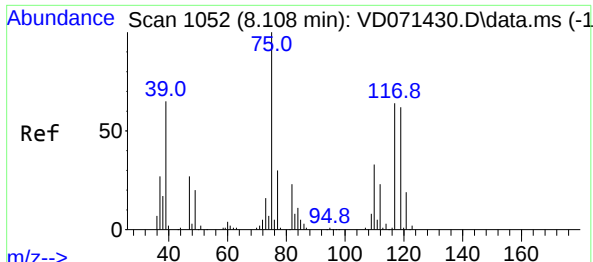
Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

192 18.1 15.2 22.8

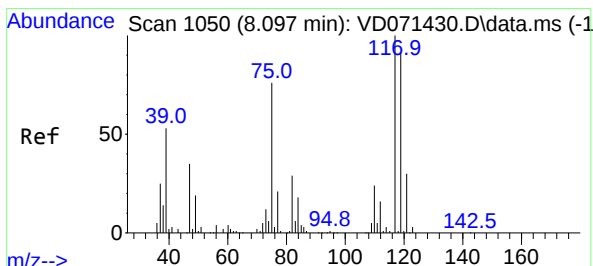
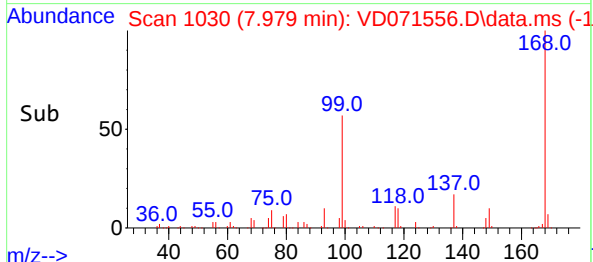
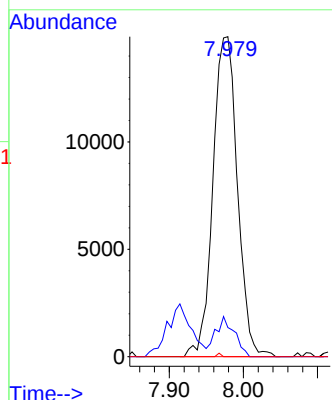
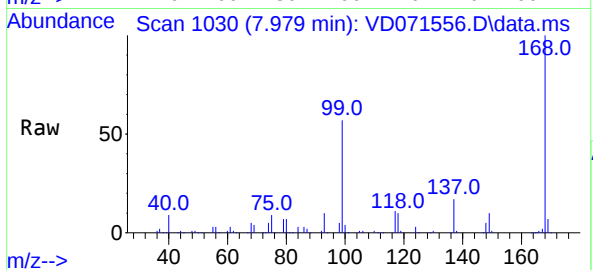




#36
1,1-Dichloropropene
Concen: 5.152 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

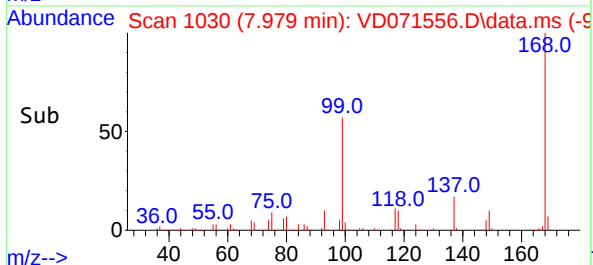
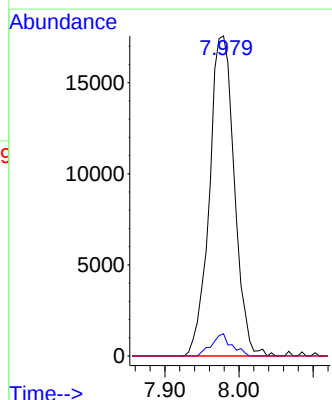
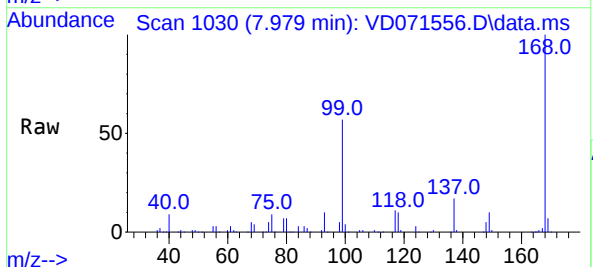
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

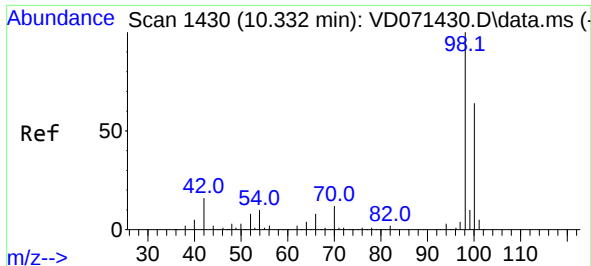
Tgt Ion: 75 Resp: 34169
Ion Ratio Lower Upper
75 100
110 9.7 17.8 53.4#
77 0.2 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 6.268 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 117 Resp: 41019
Ion Ratio Lower Upper
117 100
119 7.0 75.8 113.6#
121 0.0 23.6 35.4#

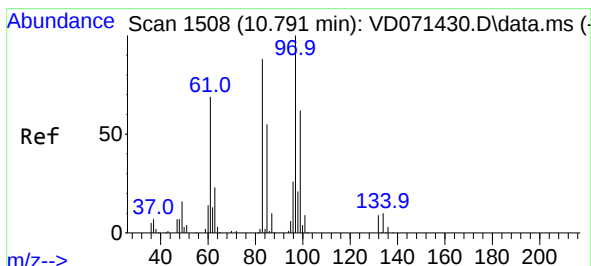
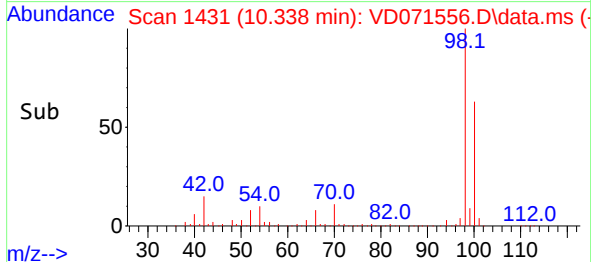
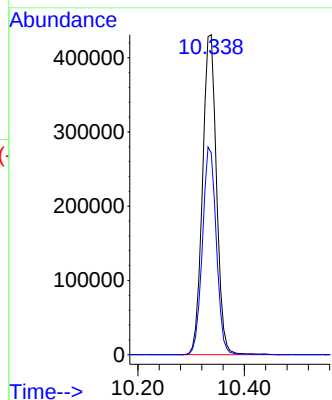
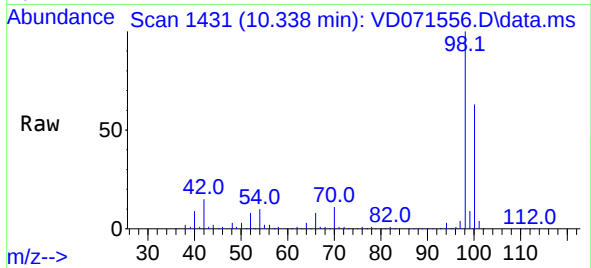




#50
Toluene-d8
Concen: 49.946 ug/l
RT: 10.338 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

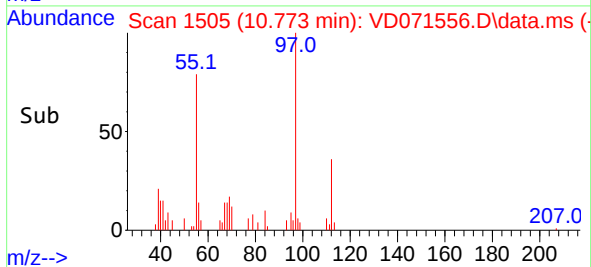
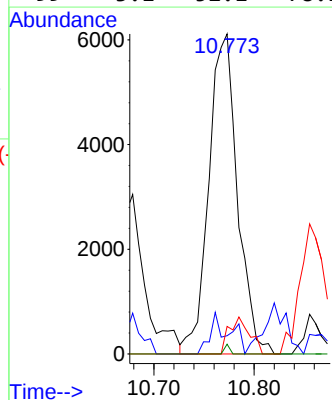
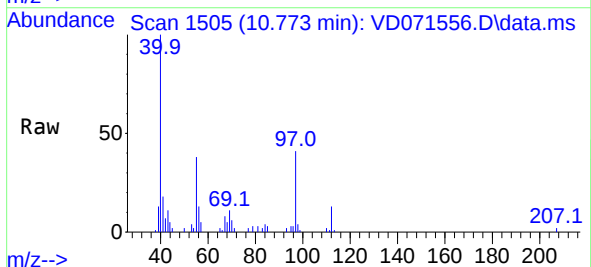
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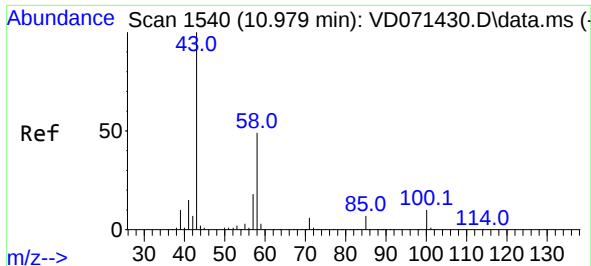
Tgt Ion: 98 Resp: 783607
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.6



#55
1,1,2-Trichloroethane
Concen: 3.740 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.018 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 97 Resp: 12135
Ion Ratio Lower Upper
97 100
83 5.7 65.2 97.8#
85 8.6 43.4 65.0#
99 3.1 52.1 78.1#

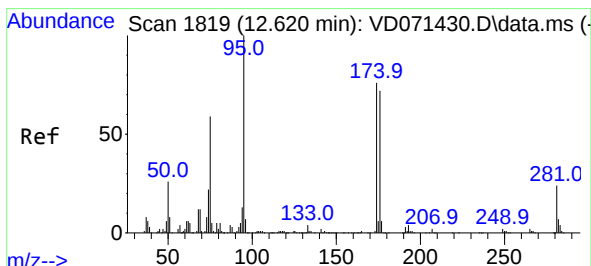
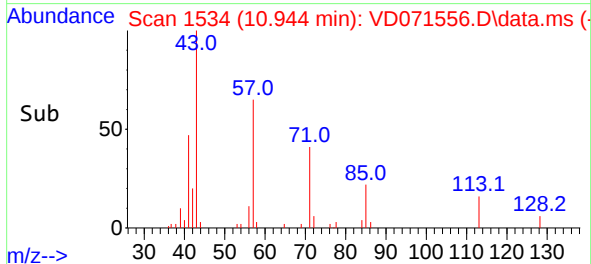
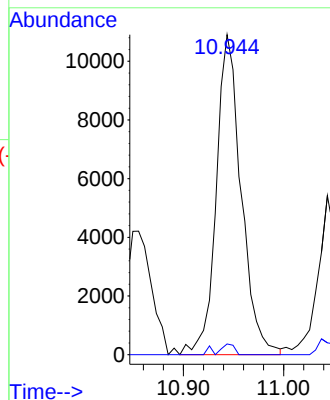
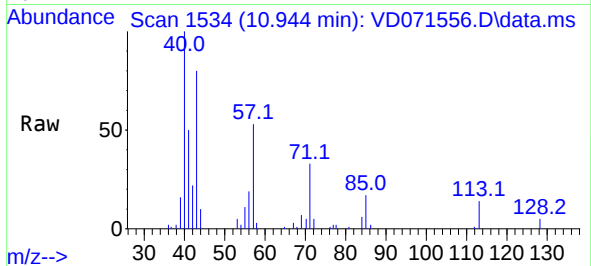




#59
2-Hexanone
Concen: 8.347 ug/l
RT: 10.944 min Scan# 11
Delta R.T. -0.035 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

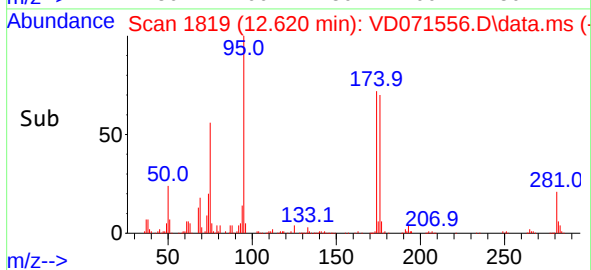
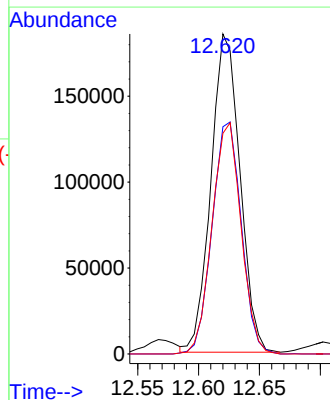
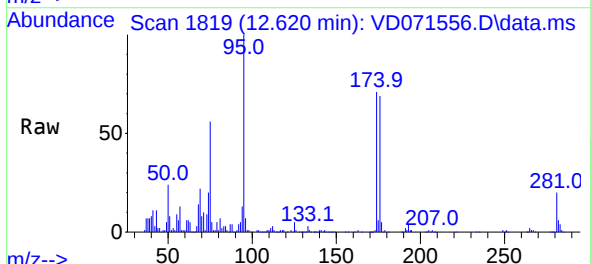
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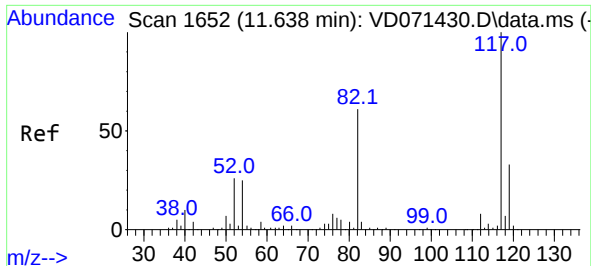
Tgt Ion: 43 Resp: 18864
Ion Ratio Lower Upper
43 100
58 1.7 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 55.164 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 95 Resp: 307544
Ion Ratio Lower Upper
95 100
174 73.2 0.0 159.4
176 72.6 0.0 154.0

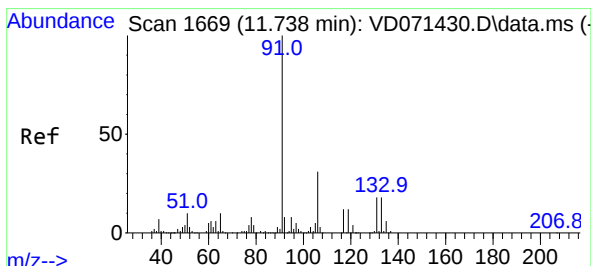
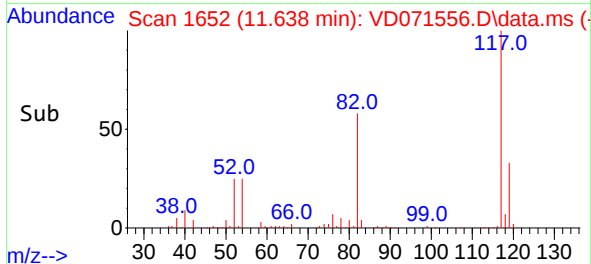
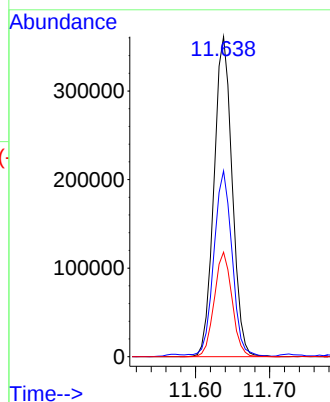
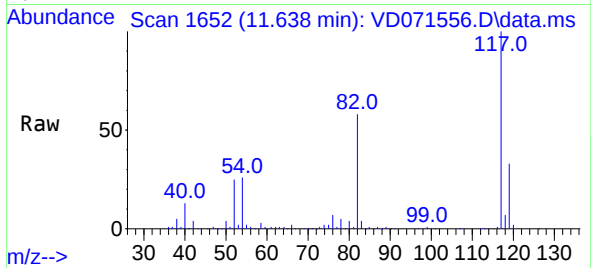




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

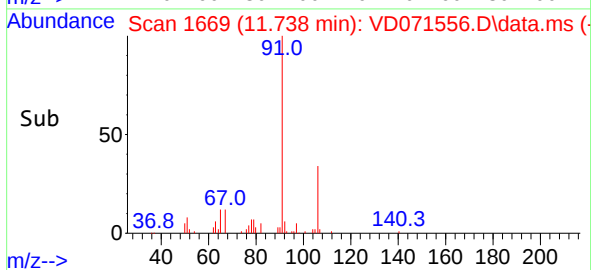
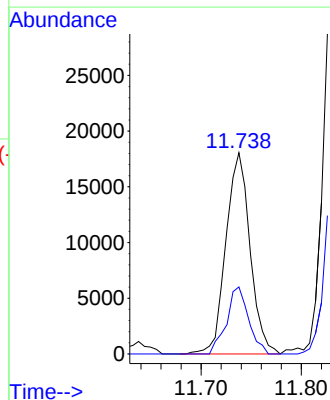
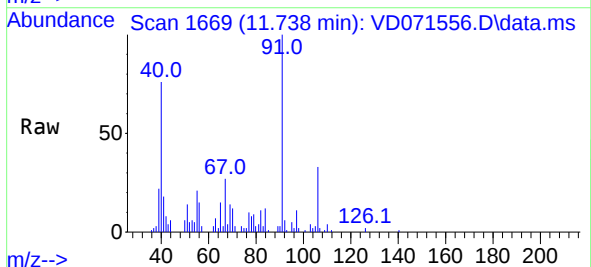
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

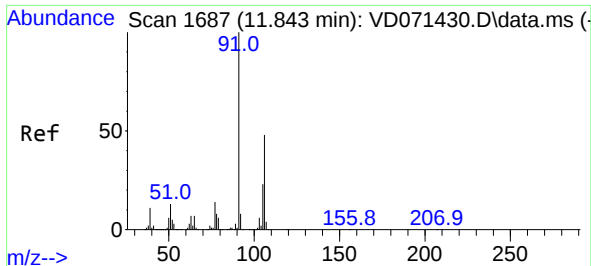
Tgt Ion:117 Resp: 616258
Ion Ratio Lower Upper
117 100
82 57.5 44.7 67.1
119 32.6 26.2 39.4



#67
Ethyl Benzene
Concen: 1.284 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 91 Resp: 30204
Ion Ratio Lower Upper
91 100
106 33.3 24.6 36.8

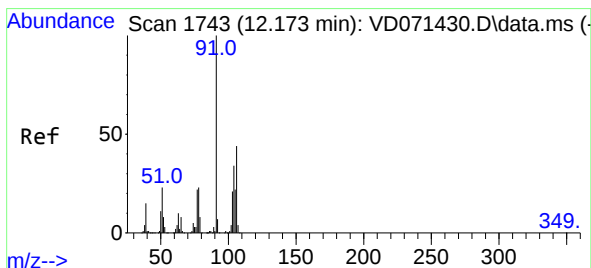
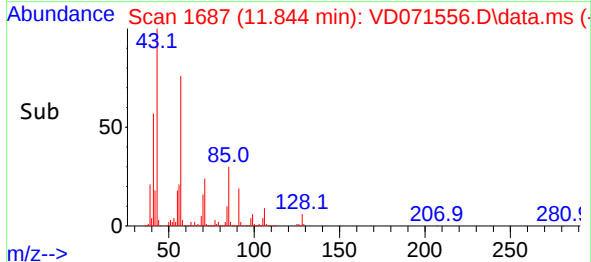
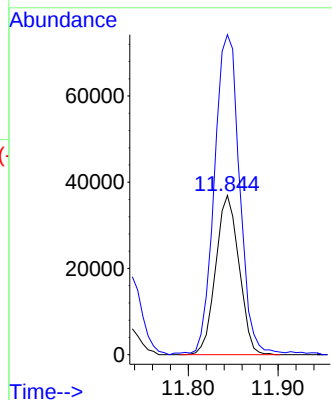
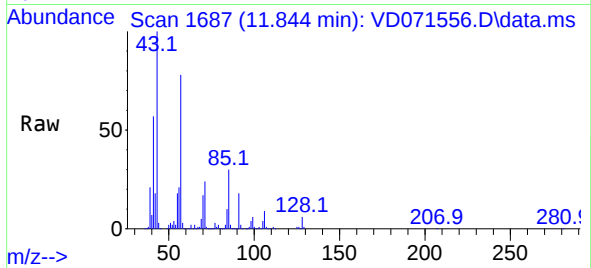




#68
m/p-Xylenes
Concen: 7.472 ug/l
RT: 11.844 min Scan# 1184
Delta R.T. 0.001 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

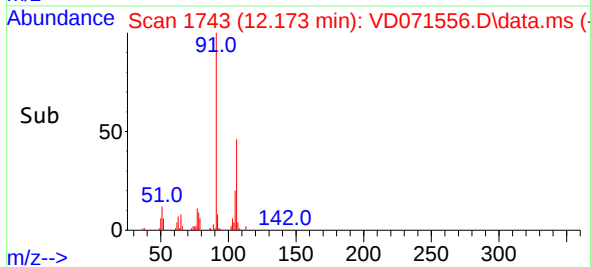
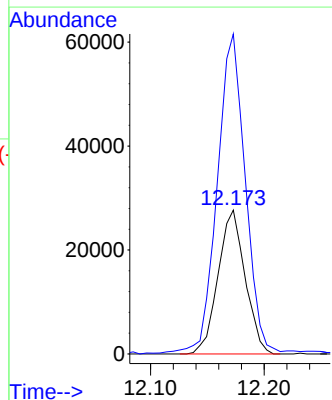
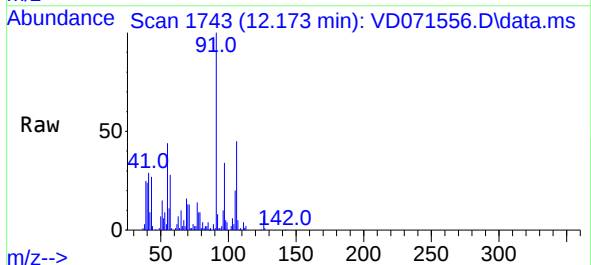
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

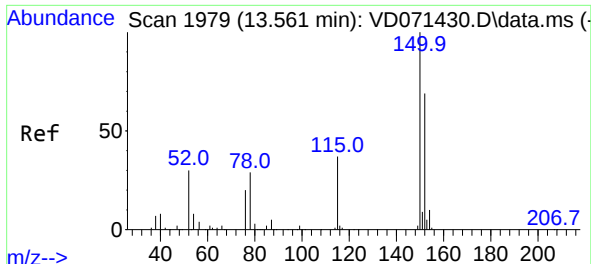
Tgt Ion:106 Resp: 66781
Ion Ratio Lower Upper
106 100
91 217.5 160.1 240.1



#69
o-Xylene
Concen: 5.605 ug/l
RT: 12.173 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion:106 Resp: 45792
Ion Ratio Lower Upper
106 100
91 229.6 106.3 319.0

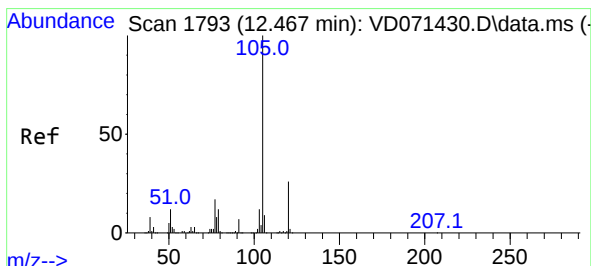
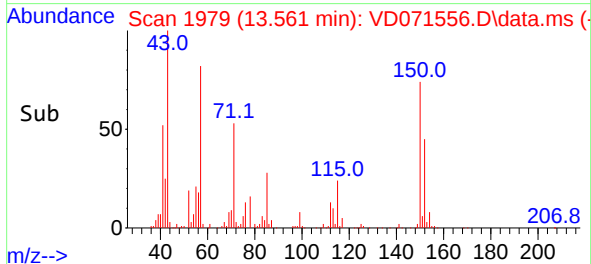
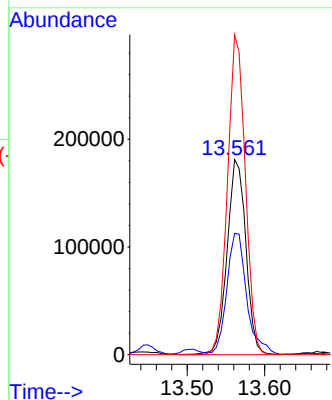
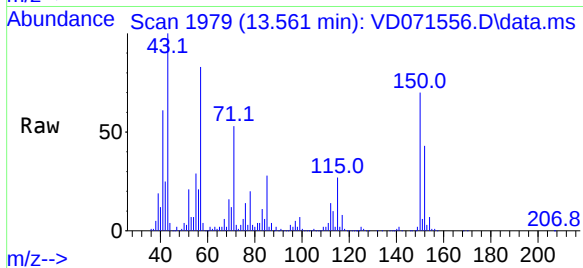




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

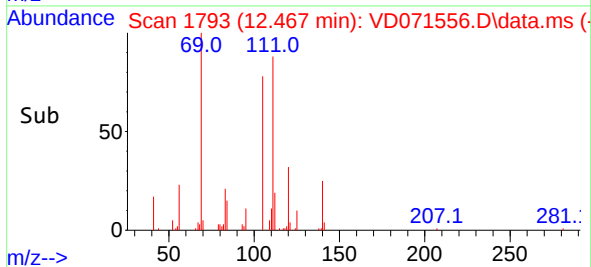
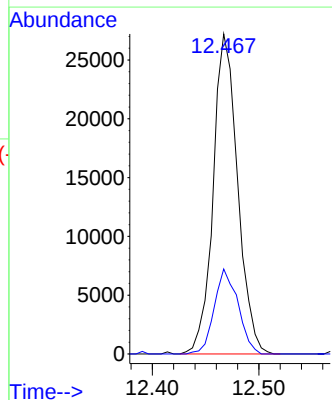
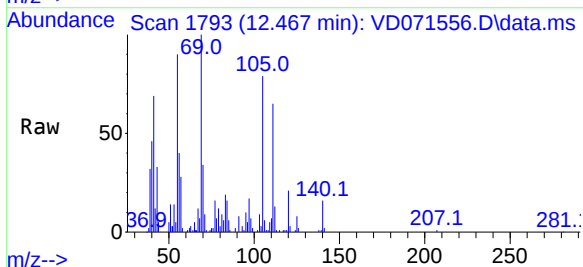
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

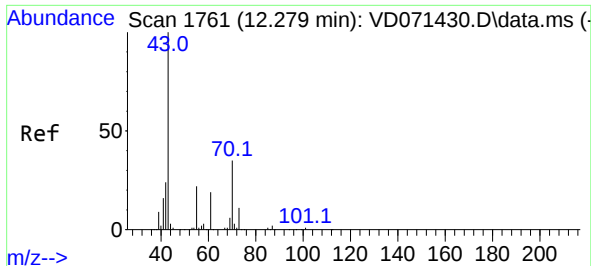
Tgt Ion:152 Resp: 305508
Ion Ratio Lower Upper
152 100
115 66.0 29.8 89.3
150 155.6 0.0 349.2



#73
Isopropylbenzene
Concen: 1.843 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion:105 Resp: 43399
Ion Ratio Lower Upper
105 100
120 25.7 13.2 39.5

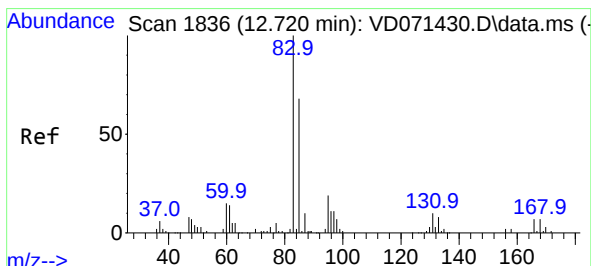
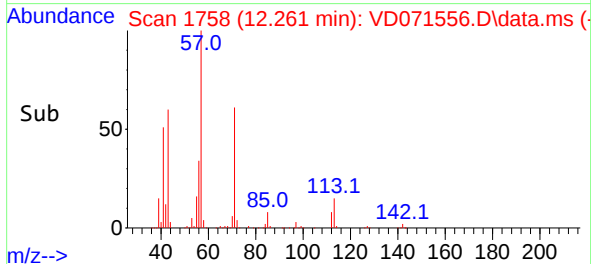
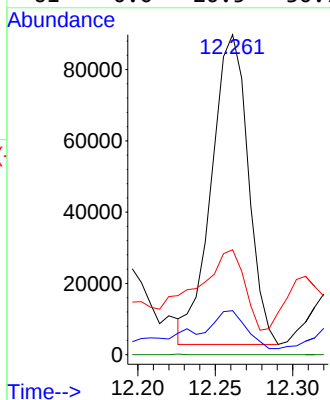
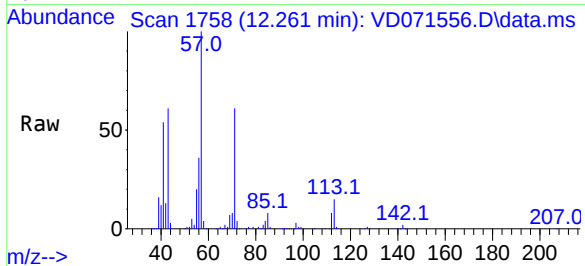




#74
N-amy1 acetate
Concen: 22.649 ug/l
RT: 12.261 min Scan# 11
Delta R.T. -0.018 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

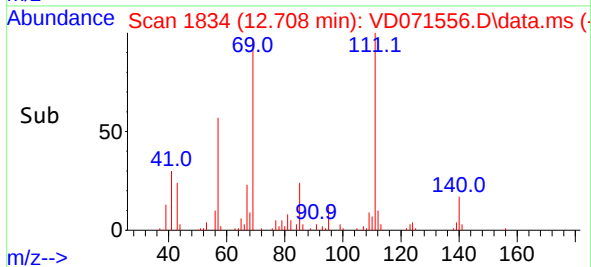
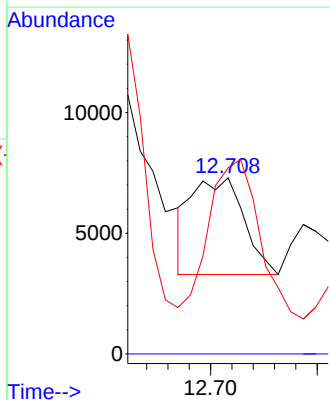
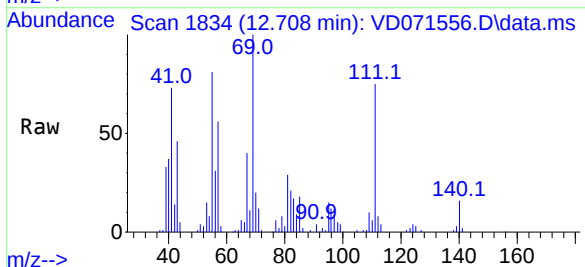
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

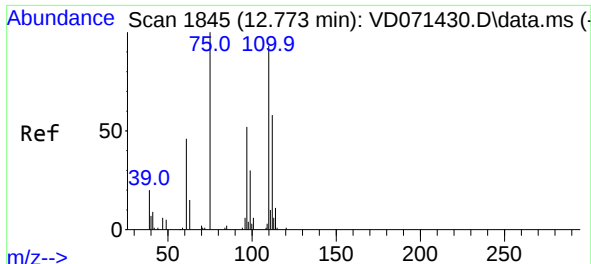
Tgt Ion: 43 Resp: 143123
Ion Ratio Lower Upper
43 100
70 11.4 36.6 55.0#
55 34.2 22.5 33.7#
61 0.0 20.5 30.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.587 ug/l
RT: 12.708 min Scan# 1834
Delta R.T. -0.012 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 83 Resp: 6758
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 0.0 32.0 96.2#

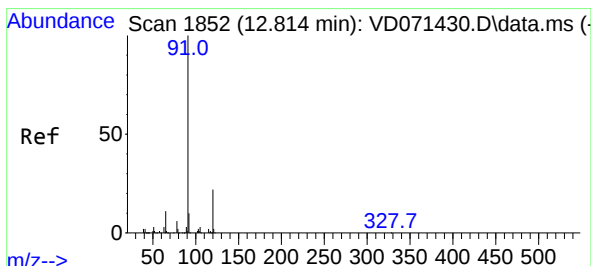
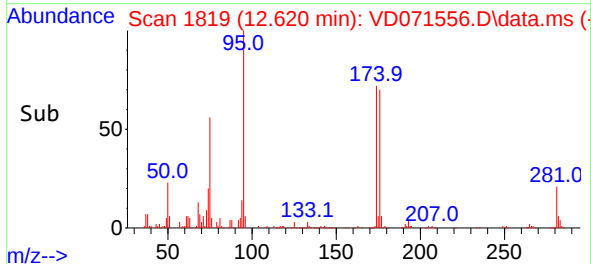
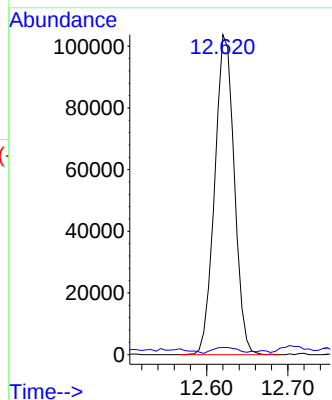
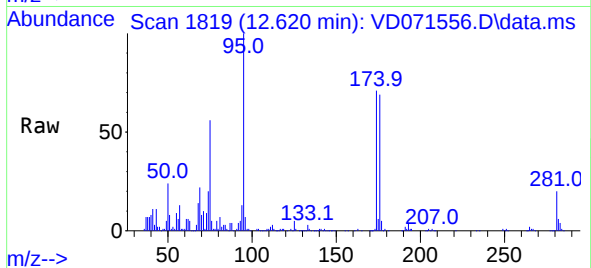




#76
1,2,3-Trichloropropane
Concen: 47.937 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

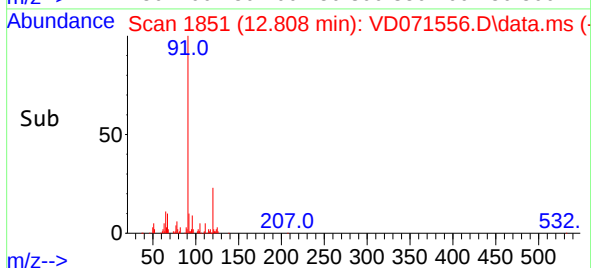
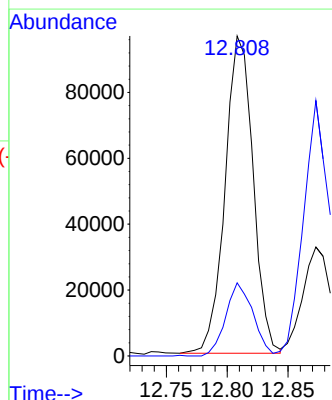
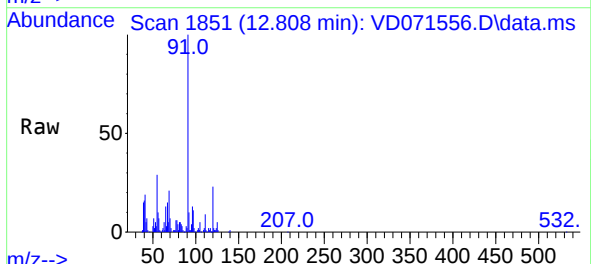
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

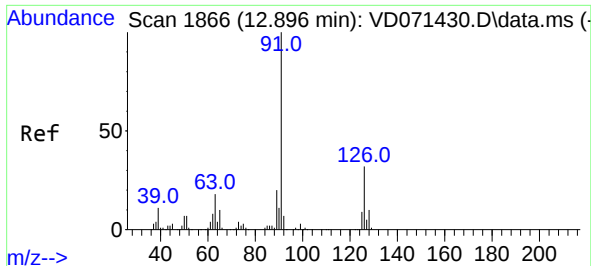
Tgt Ion: 75 Resp: 174010
Ion Ratio Lower Upper
75 100
77 2.3 158.4 475.3#



#78
n-propylbenzene
Concen: 5.222 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 91 Resp: 154167
Ion Ratio Lower Upper
91 100
120 22.4 10.9 32.9

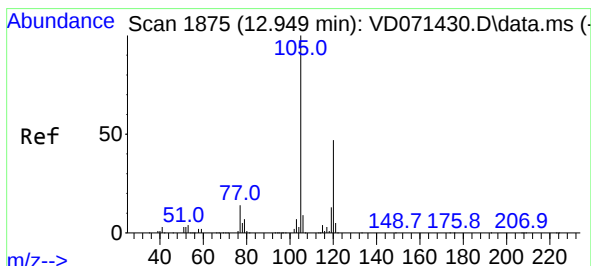
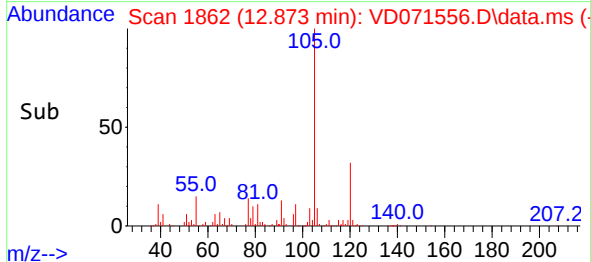
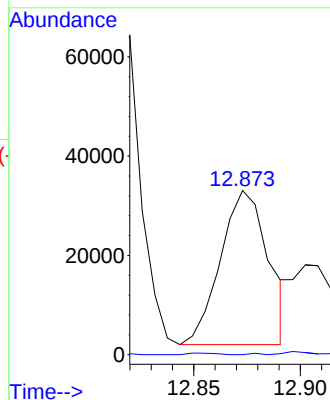
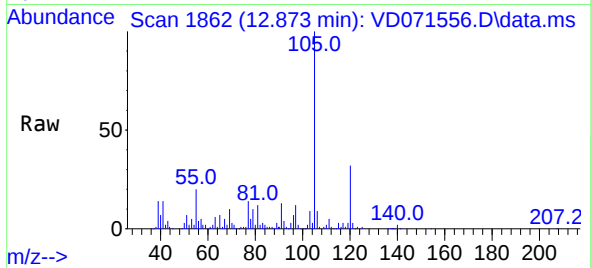




#79
2-Chlorotoluene
Concen: 2.944 ug/l
RT: 12.873 min Scan# 1862
Delta R.T. -0.023 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

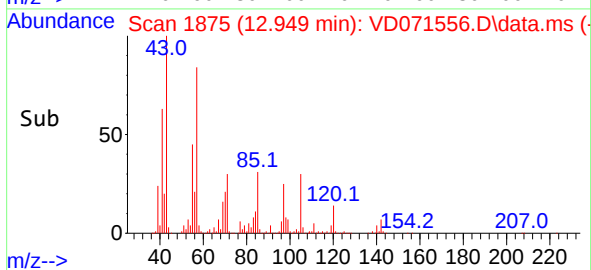
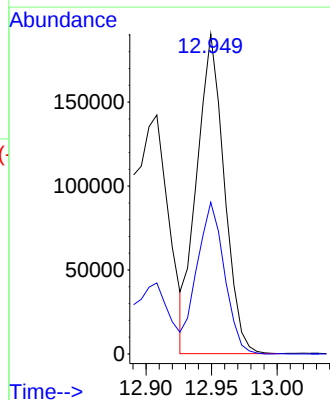
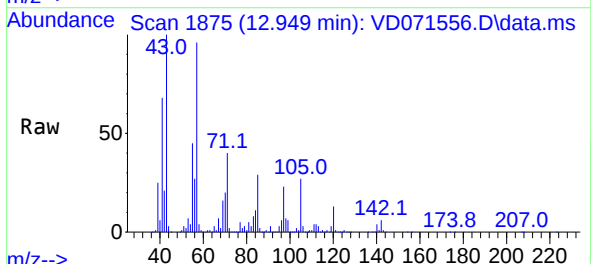
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

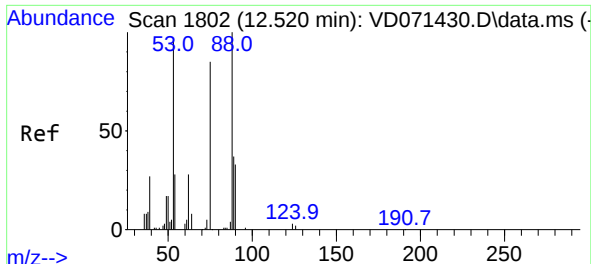
Tgt Ion: 91 Resp: 48580
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.7#



#80
1,3,5-Trimethylbenzene
Concen: 14.290 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 105 Resp: 277614
Ion Ratio Lower Upper
105 100
120 47.4 24.6 73.8

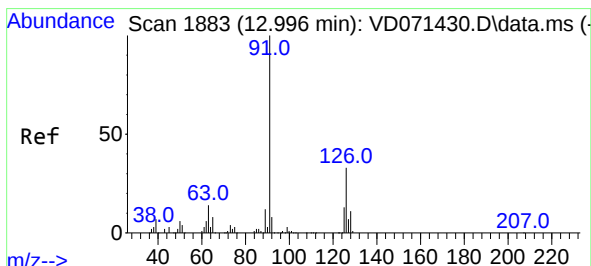
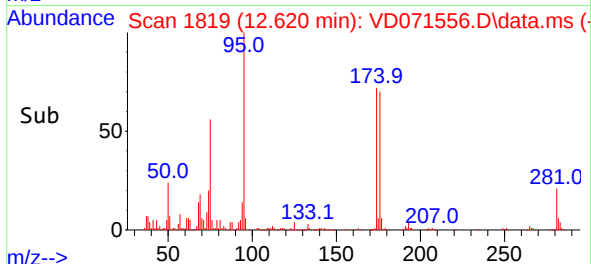
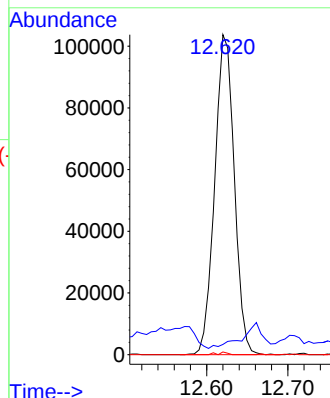
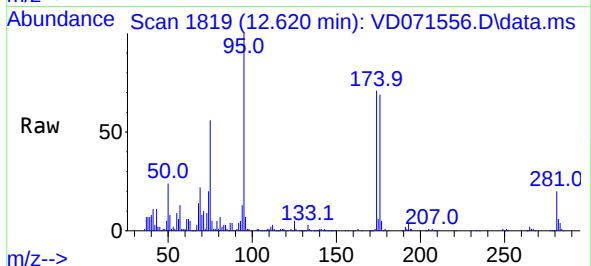




#81
trans-1,4-Dichloro-2-butene
Concen: 135.447 ug/l
RT: 12.620 min Scan# 1802
Delta R.T. 0.100 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

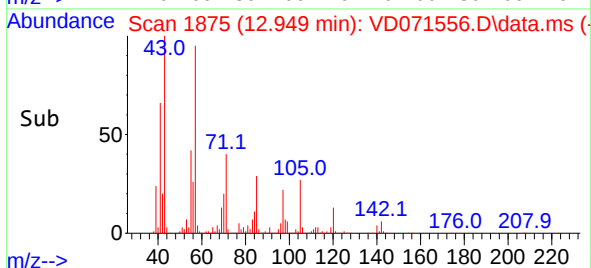
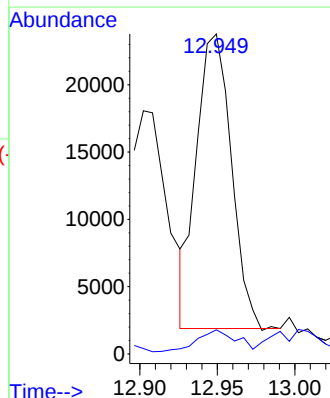
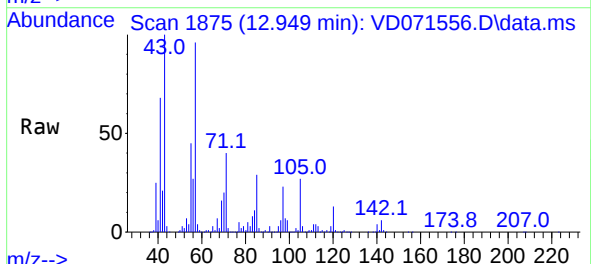
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

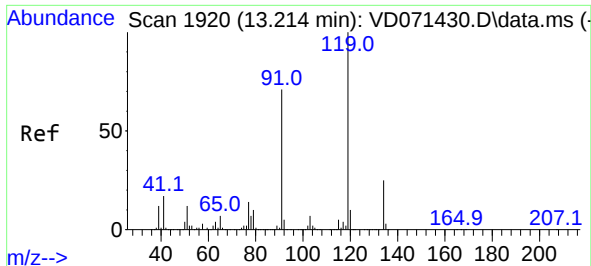
Tgt Ion: 75 Resp: 174010
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.4 34.5 51.7#



#82
4-Chlorotoluene
Concen: 1.996 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. -0.047 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 91 Resp: 34164
Ion Ratio Lower Upper
91 100
126 8.0 16.4 49.1#

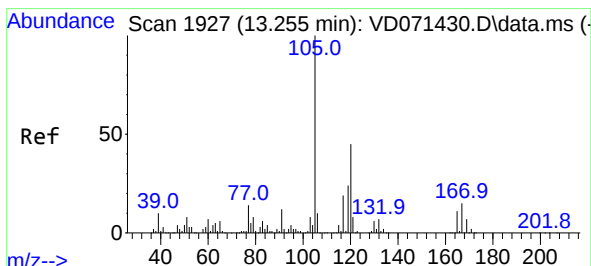
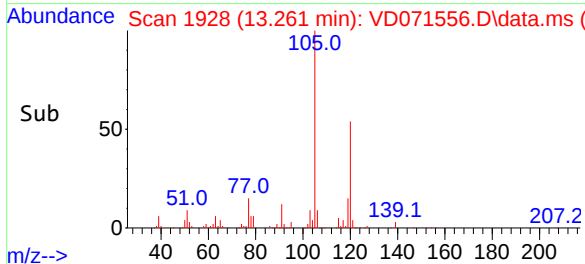
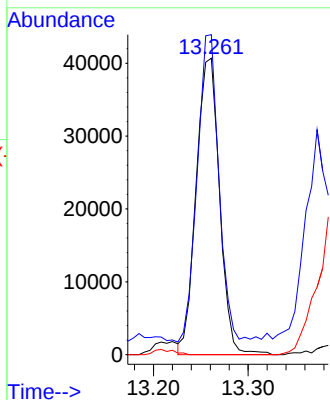
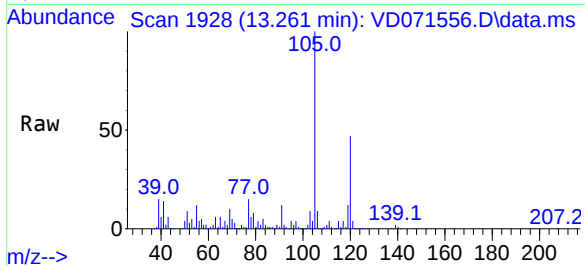




#83
tert-Butylbenzene
Concen: 4.200 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.047 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

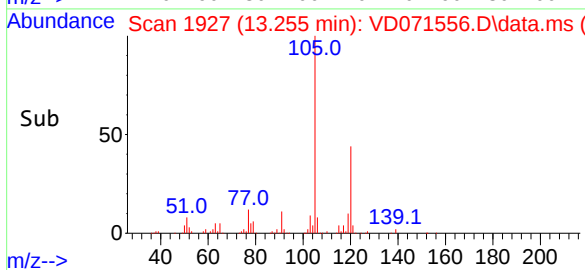
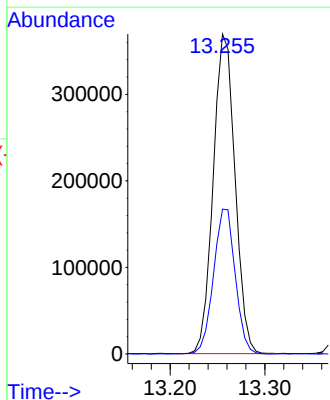
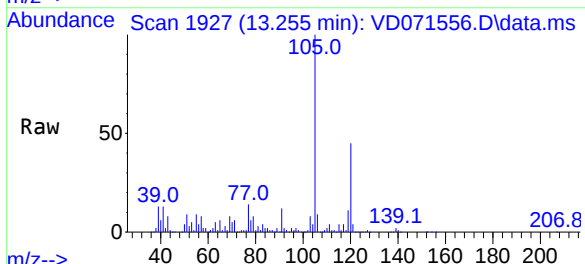
Instrument :
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ClientSampleId :
BU-03-122921

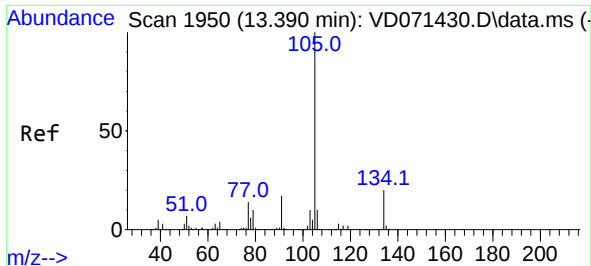
Tgt Ion:119 Resp: 69727
Ion Ratio Lower Upper
119 100
91 95.7 32.5 97.5
134 0.0 13.2 39.6#



#84
1,2,4-Trimethylbenzene
Concen: 30.772 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion:105 Resp: 591673
Ion Ratio Lower Upper
105 100
120 45.2 22.9 68.7

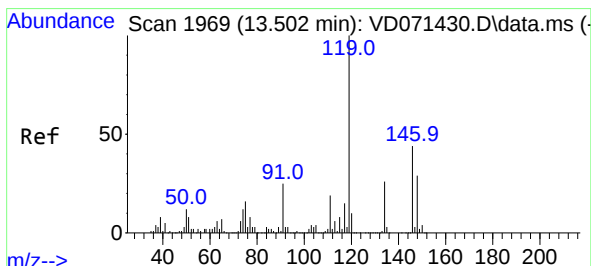
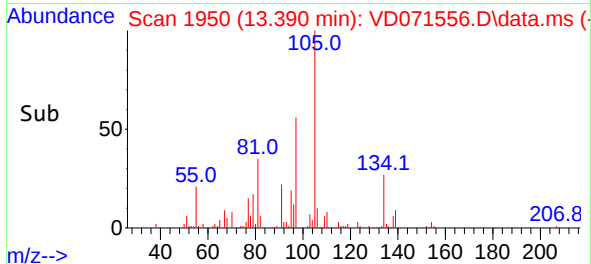
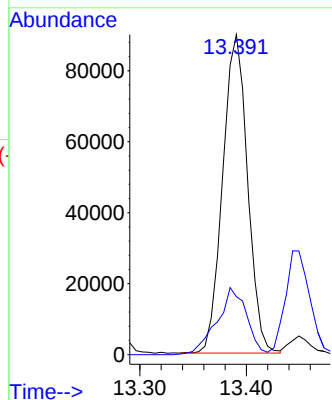
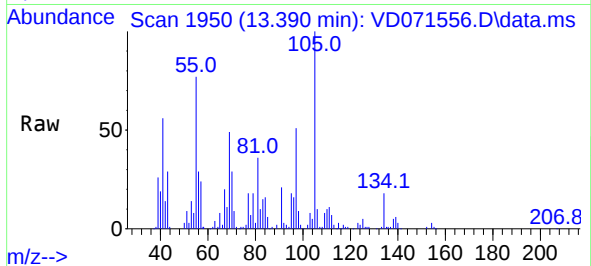




#85
sec-Butylbenzene
Concen: 5.749 ug/l
RT: 13.390 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

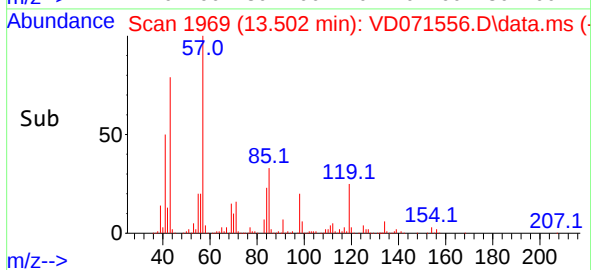
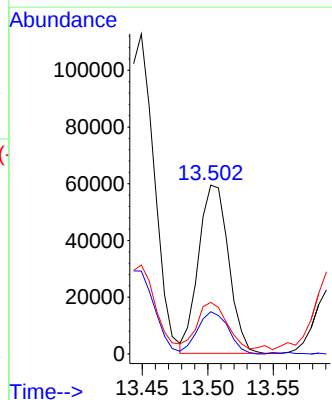
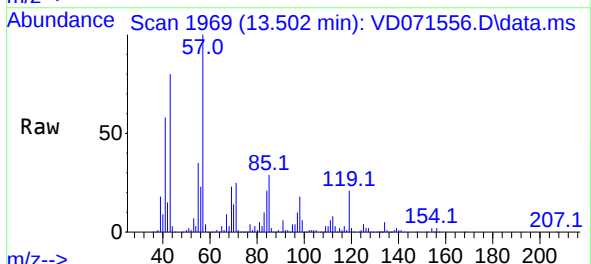
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

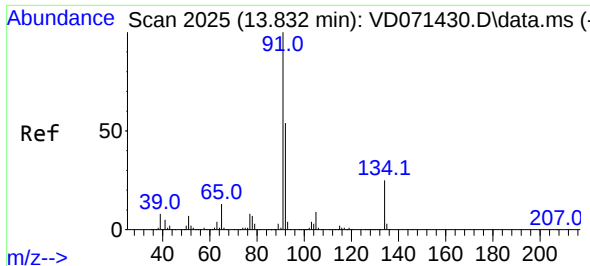
Tgt Ion:105 Resp: 145492
Ion Ratio Lower Upper
105 100
134 25.1 9.7 28.9



#86
p-Isopropyltoluene
Concen: 4.513 ug/l
RT: 13.502 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion:119 Resp: 94775
Ion Ratio Lower Upper
119 100
134 25.7 13.0 38.9
91 25.5 11.4 34.2

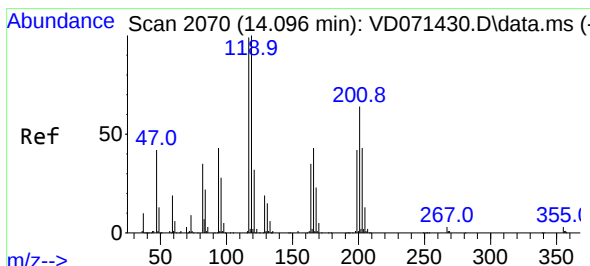
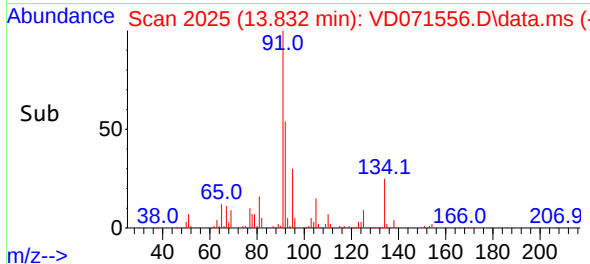
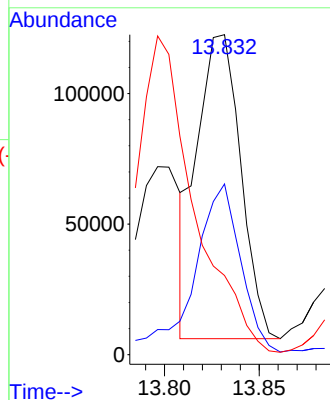
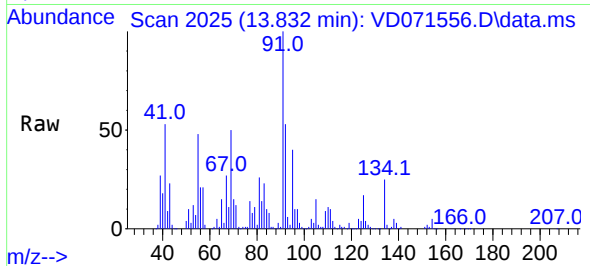




#89
n-Butylbenzene
Concen: 9.034 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

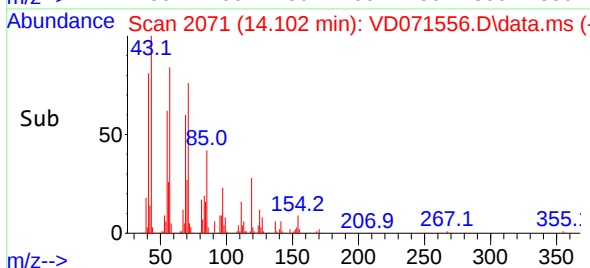
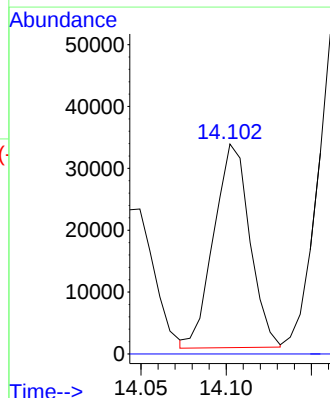
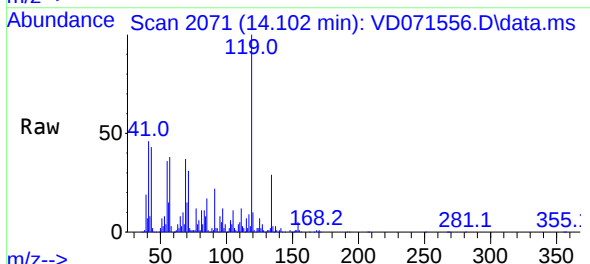
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

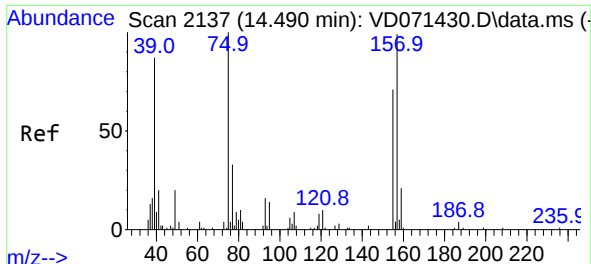
Tgt Ion: 91 Resp: 186200
Ion Ratio Lower Upper
91 100
92 57.0 27.3 81.9
134 0.0 12.3 36.9#



#90
Hexachloroethane
Concen: 12.144 ug/l
RT: 14.102 min Scan# 2071
Delta R.T. 0.006 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion: 117 Resp: 48310
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#

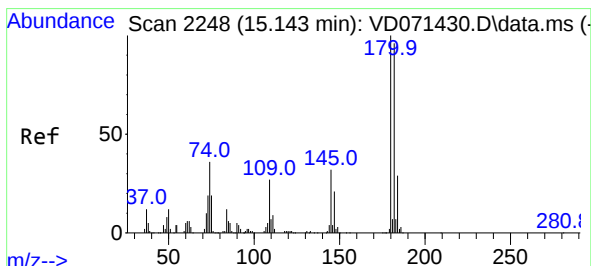
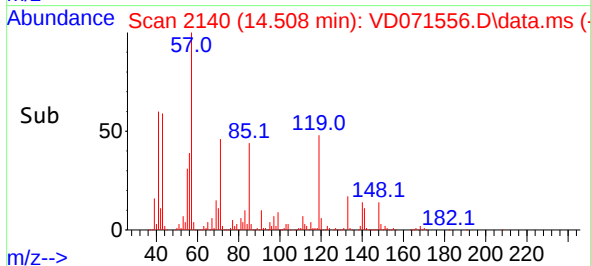
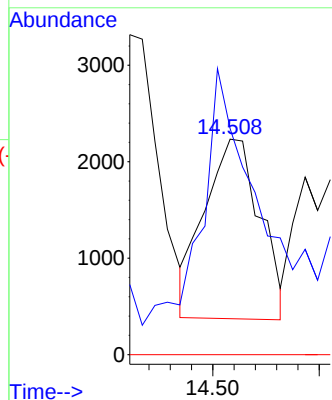
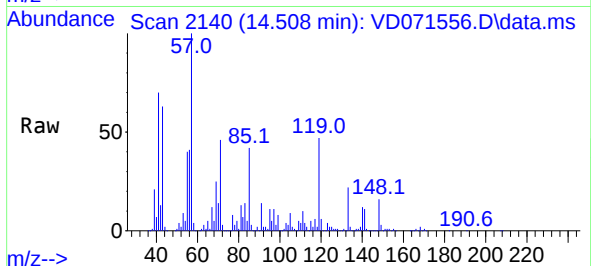




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.577 ug/l
RT: 14.508 min Scan# 2137
Delta R.T. 0.018 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

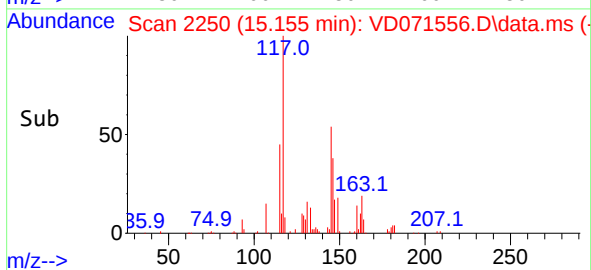
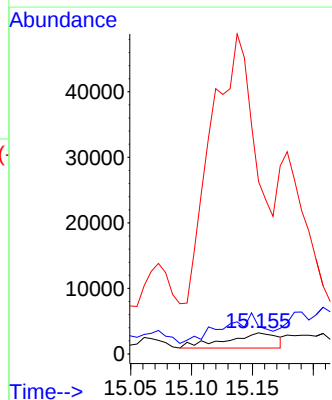
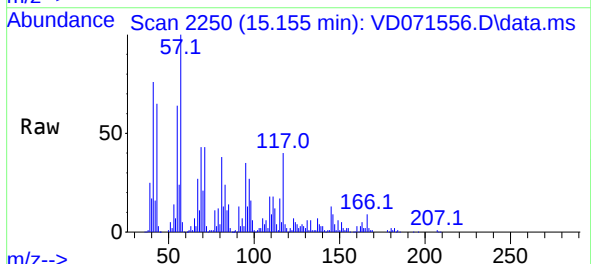
Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

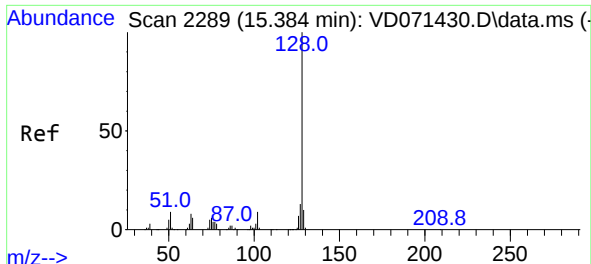
Tgt Ion: 75 Resp: 3380
Ion Ratio Lower Upper
75 100
155 115.1 40.0 120.0
157 0.0 49.8 149.3#



#93
1,2,4-Trichlorobenzene
Concen: 1.248 ug/l
RT: 15.155 min Scan# 2250
Delta R.T. 0.012 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion:180 Resp: 6815
Ion Ratio Lower Upper
180 100
182 149.6 48.2 144.6#
145 1840.6 15.4 46.2#

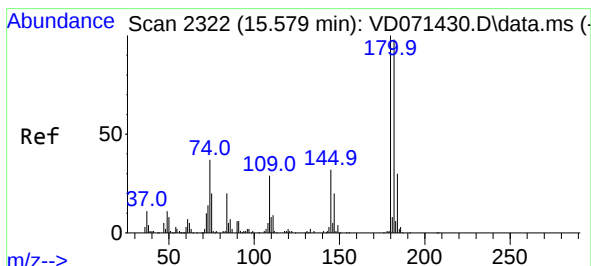
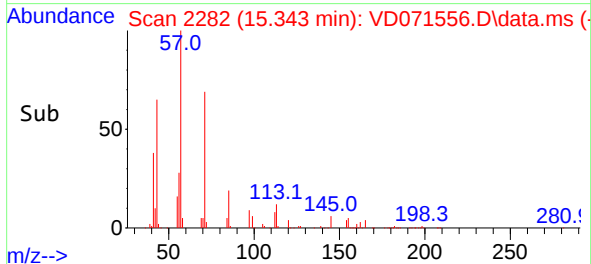
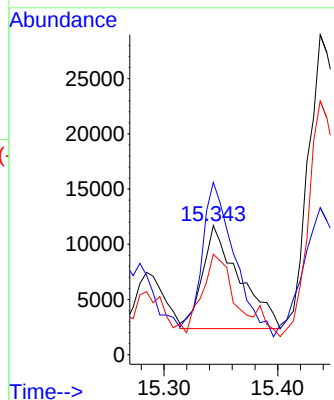
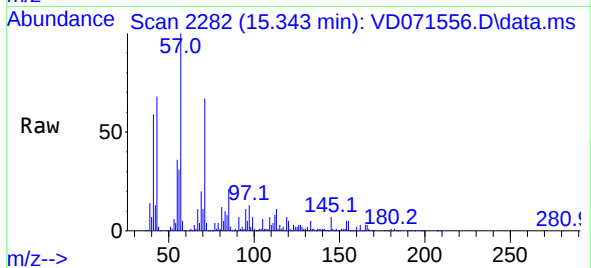




#95
Naphthalene
Concen: 2.029 ug/l
RT: 15.343 min Scan# 21078
Delta R.T. -0.036 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Instrument :
MSVOA_D
ClientSampleId :
BU-03-122921

Tgt Ion:128 Resp: 21078
Ion Ratio Lower Upper
128 100
127 133.0 10.7 16.1#
129 76.1 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.447 ug/l
RT: 15.602 min Scan# 2326
Delta R.T. 0.023 min
Lab File: VD071556.D
Acq: 30 Dec 2021 18:31

Tgt Ion:180 Resp: 20996
Ion Ratio Lower Upper
180 100
182 0.0 46.7 140.1#
145 0.0 15.9 47.6#

