

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD012521\
 Data File : VD068169.D
 Acq On : 25 Jan 2021 15:02
 Operator : VA/SY
 Sample : M1216-03
 Misc : 1.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

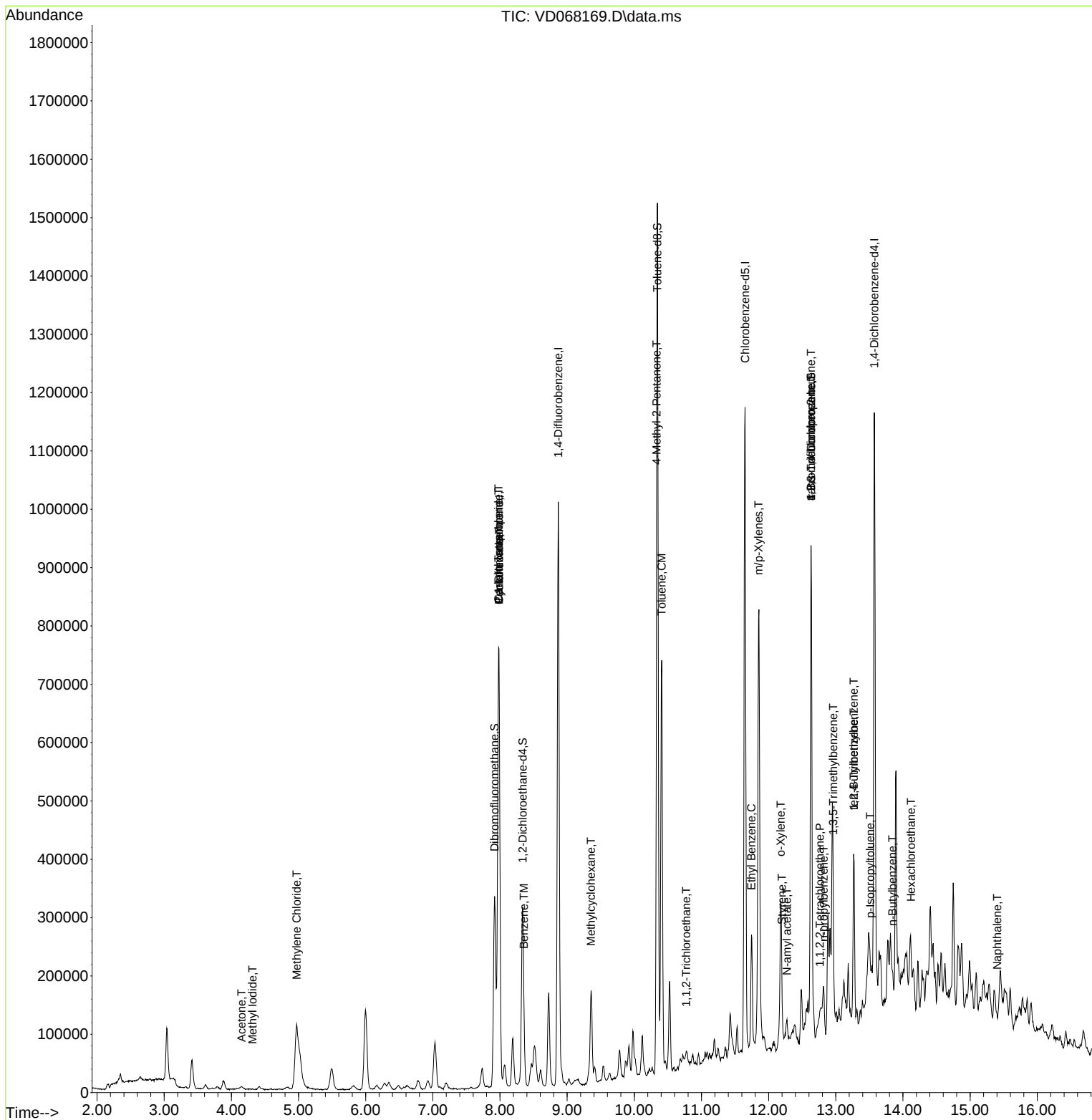
Quant Time: Jan 26 00:08:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D011921S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 19 13:19:08 2021
 Response via : Initial Calibration

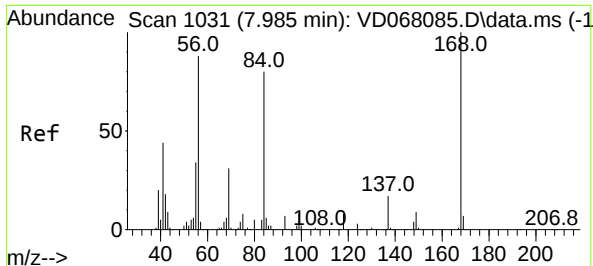
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.985	168	509428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	852739	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.649	117	663397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	258869	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.338	65	229958	47.19	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 94.38%			
35) Dibromofluoromethane	7.920	113	237511	50.38	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.76%			
50) Toluene-d8	10.344	98	1007038	53.40	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 106.80%			
62) 4-Bromofluorobenzene	12.632	95	282573	41.61	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 83.22%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.314	142	274	3.20	ug/l #	38
11) Tert butyl alcohol	5.209	59	457	Below Cal	#	74
16) Acetone	4.150	43	6135	7.05	ug/l #	80
20) Methylene Chloride	4.973	84	79416	9.86	ug/l #	89
31) Cyclohexane	7.985	56	62120	5.89	ug/l #	86
36) 1,1-Dichloropropene	7.979	75	40484	4.71	ug/l #	49
38) Carbon Tetrachloride	7.979	117	50430	6.27	ug/l #	15
39) Methylcyclohexane	9.355	83	66688	5.93	ug/l	93
40) Benzene	8.355	78	55610	2.31	ug/l	92
51) 4-Methyl-2-Pentanone	10.332	43	6350	2.15	ug/l #	1
52) Toluene	10.408	92	311984	19.91	ug/l	95
55) 1,1,2-Trichloroethane	10.773	97	9029	2.14	ug/l #	22
67) Ethyl Benzene	11.743	91	146275	5.60	ug/l	95
68) m/p-Xylenes	11.849	106	211965	21.51	ug/l	100
69) o-Xylene	12.179	106	65268	7.13	ug/l	96
70) Styrene	12.196	104	15908	1.02	ug/l #	31
74) N-amyl acetate	12.273	43	9382	2.10	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.761	83	5697	1.66	ug/l #	26
76) 1,2,3-Trichloropropane	12.632	75	142867	57.08	ug/l #	100
78) n-propylbenzene	12.820	91	48408	1.90	ug/l	98
80) 1,3,5-Trimethylbenzene	12.961	105	54103	3.02	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.632	75	142867	115.50	ug/l #	14
83) tert-Butylbenzene	13.267	119	26180	1.72	ug/l #	77
84) 1,2,4-Trimethylbenzene	13.267	105	173460	9.74	ug/l	96
86) p-Isopropyltoluene	13.514	119	20775	1.07	ug/l #	73
89) n-Butylbenzene	13.843	91	22182	1.20	ug/l #	68
90) Hexachloroethane	14.120	117	3759	1.08	ug/l #	10
95) Naphthalene	15.402	128	13348	1.37	ug/l #	91

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

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Quant Title : SW846 8260
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Response via : Initial Calibration

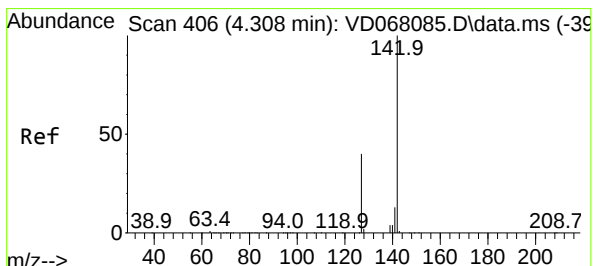
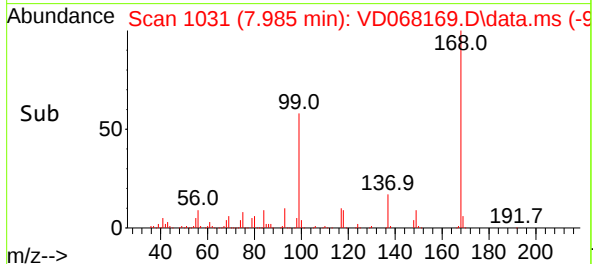
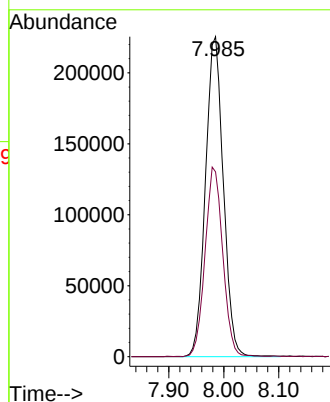
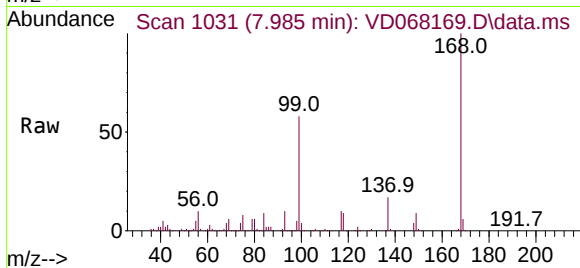




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

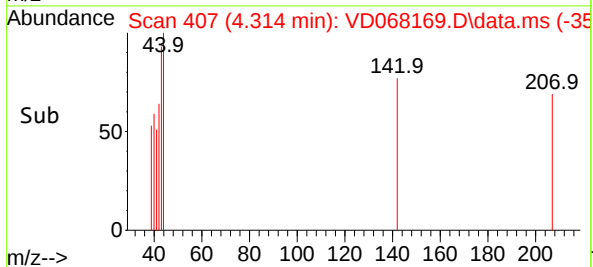
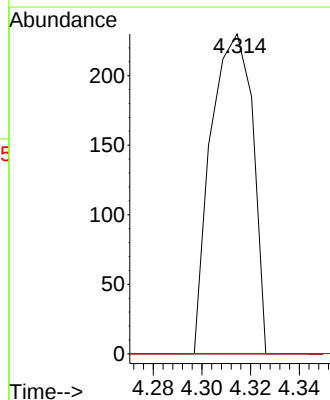
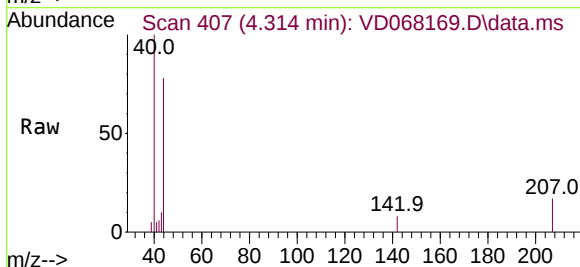
Instrument :
MSVOA_D
ClientSampleId :

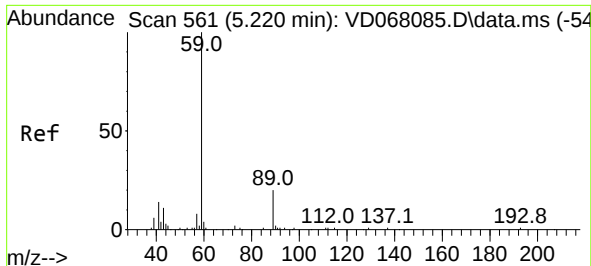
Tgt Ion:168 Resp: 509428
Ion Ratio Lower Upper
168 100
99 57.7 43.5 65.3



#10
Methyl Iodide
Concen: 3.20 ug/l
RT: 4.314 min Scan# 407
Delta R.T. 0.006 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion:142 Resp: 274
Ion Ratio Lower Upper
142 100
127 0.0 37.9 56.9#
141 0.0 11.5 17.3#



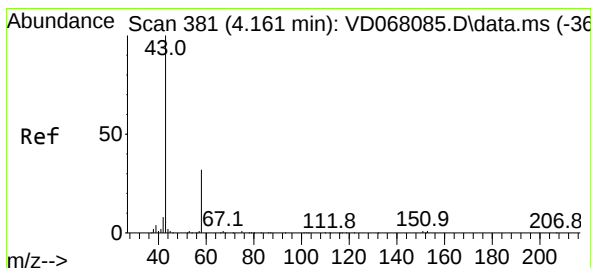
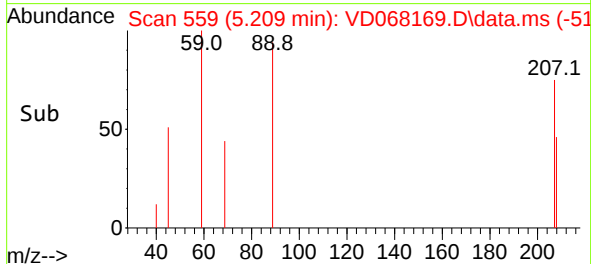
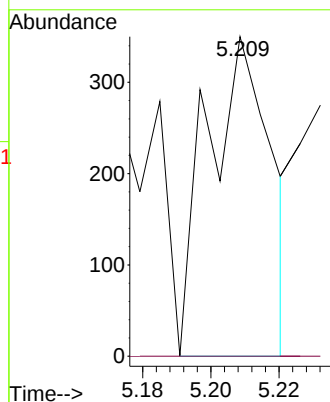
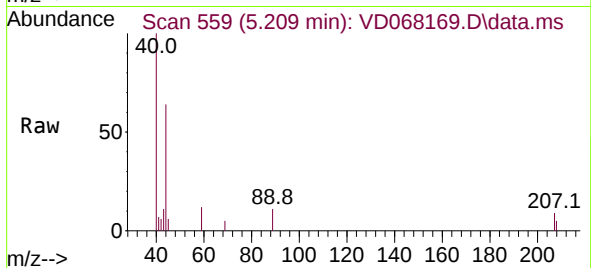


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.209 min Scan# 559
Delta R.T. -0.011 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Instrument :
MSVOA_D
ClientSampled :

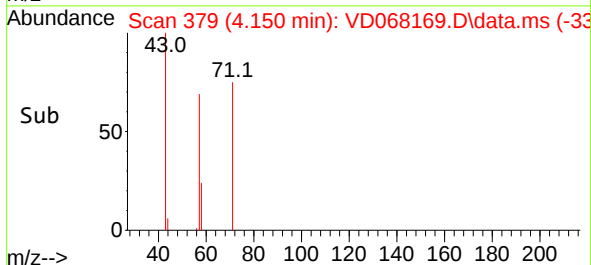
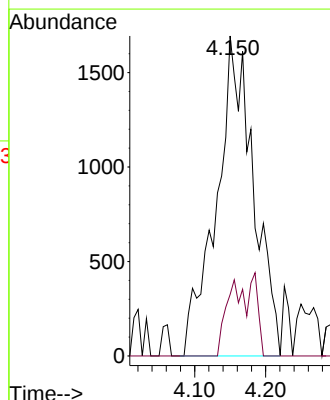
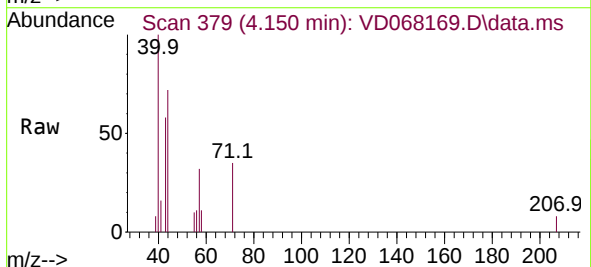
Tgt Ion: 59 Resp: 457
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#

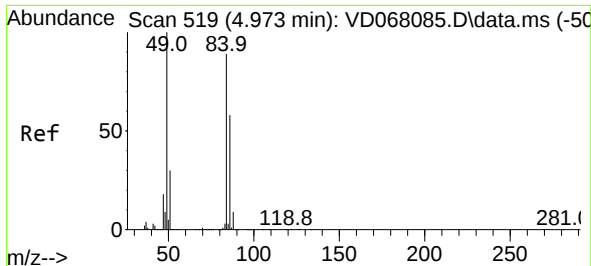


#16

Acetone
Concen: 7.05 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.012 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

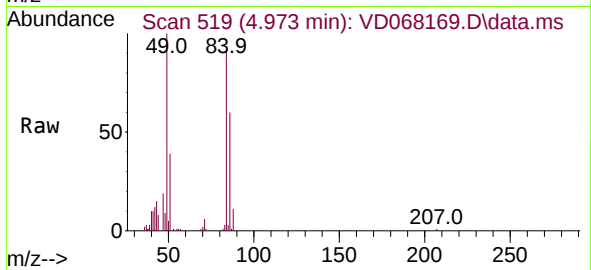
Tgt Ion: 43 Resp: 6135
Ion Ratio Lower Upper
43 100
58 19.2 24.2 36.4#





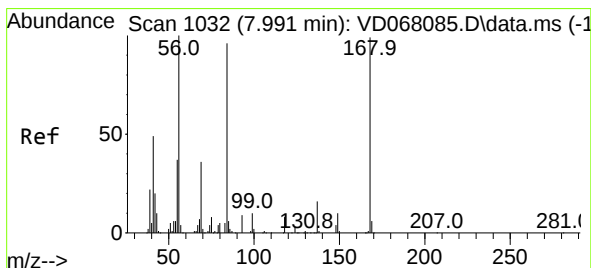
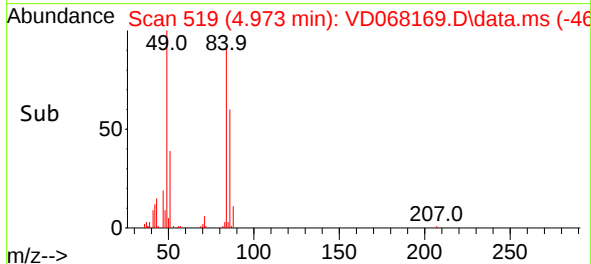
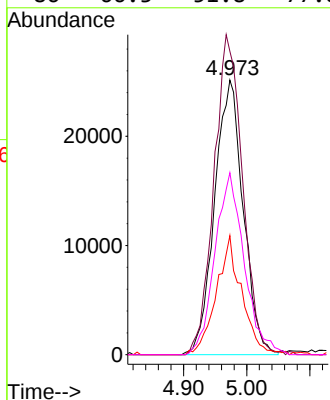
#20
Methylene Chloride
Concen: 9.86 ug/l
RT: 4.973 min Scan# 519
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Instrument :
MSVOA_D
ClientSampleId :

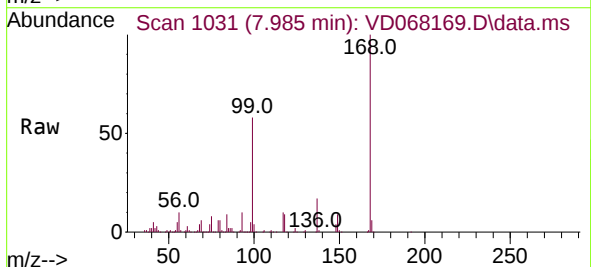


Tgt Ion: 84 Resp: 79416

Ion	Ratio	Lower	Upper
84	100		
49	110.5	77.4	116.2
51	43.4	26.1	39.1#
86	66.3	51.8	77.8

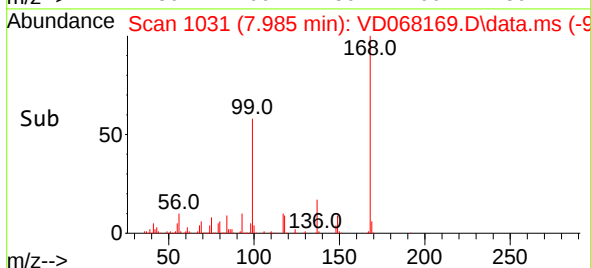
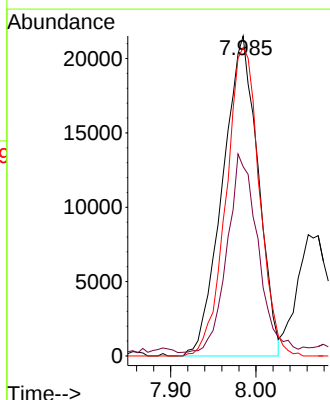


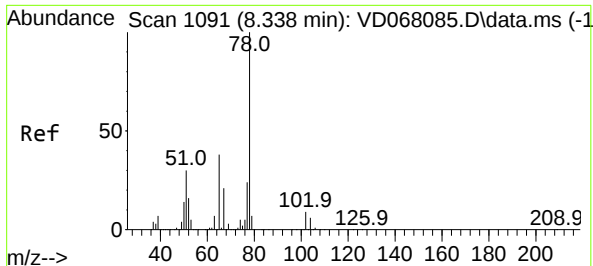
#31
Cyclohexane
Concen: 5.89 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02



Tgt Ion: 56 Resp: 62120

Ion	Ratio	Lower	Upper
56	100		
69	58.1	30.1	45.1#
84	96.4	82.1	123.1

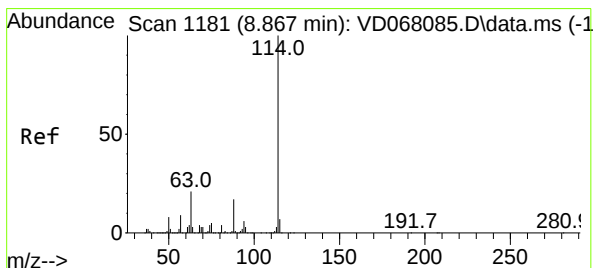
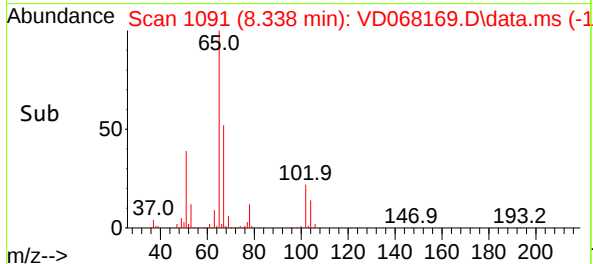
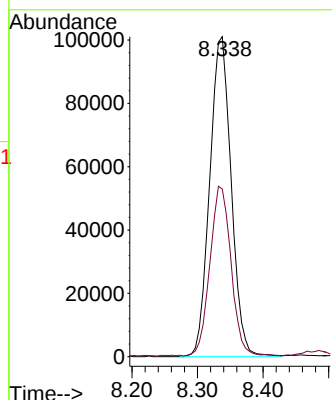
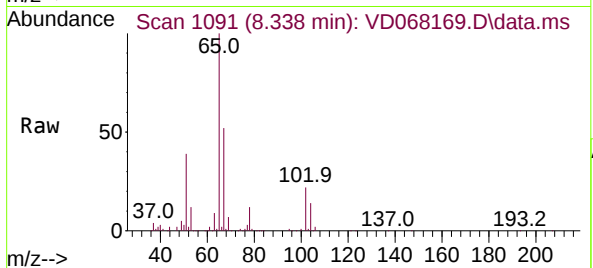




#33
 1,2-Dichloroethane-d4
 Concen: 47.19 ug/l
 RT: 8.338 min Scan# 1091
 Delta R.T. 0.000 min
 Lab File: VD068169.D
 Acq: 25 Jan 2021 15:02

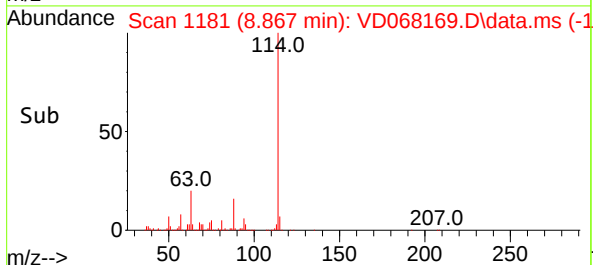
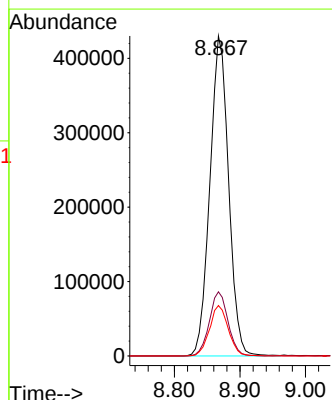
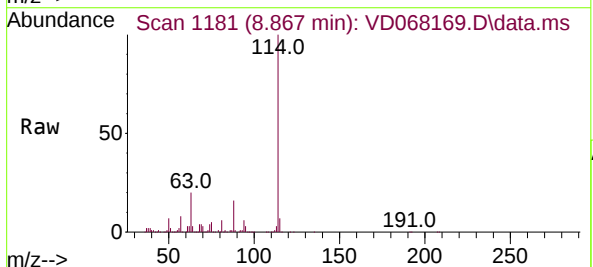
Instrument :
 MSVOA_D
 ClientSampled :

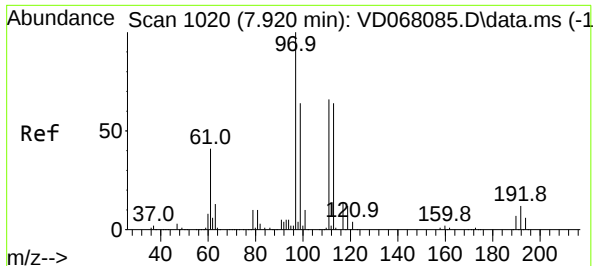
Tgt Ion: 65 Resp: 229958
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.867 min Scan# 1181
 Delta R.T. 0.000 min
 Lab File: VD068169.D
 Acq: 25 Jan 2021 15:02

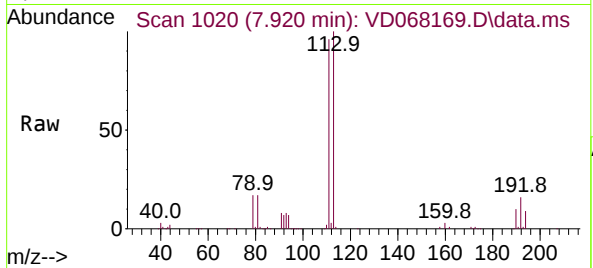
Tgt Ion: 114 Resp: 852739
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 34.8
 88 15.7 0.0 31.6



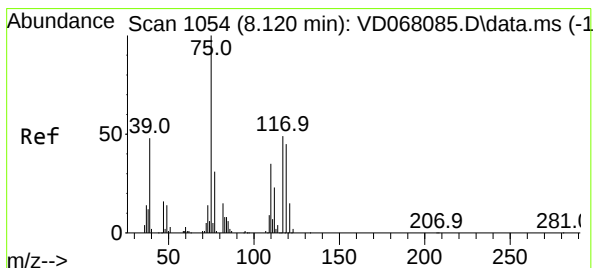
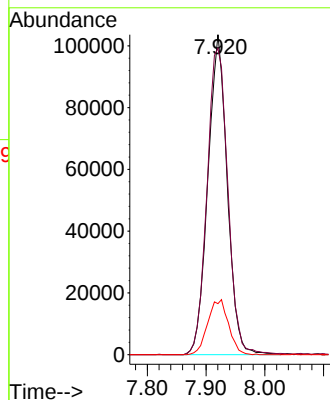
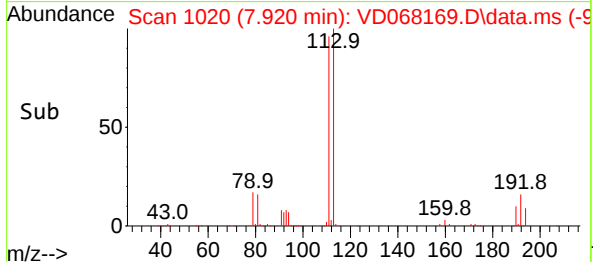


#35
Dibromofluoromethane
Concen: 50.38 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

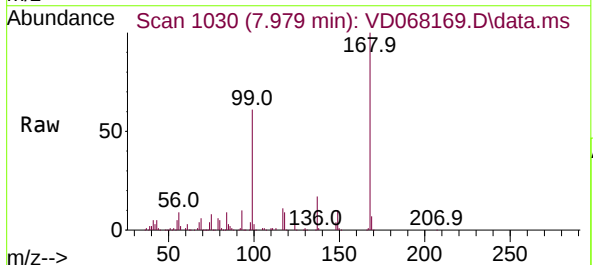
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MSVOA_D
ClientSampleId :



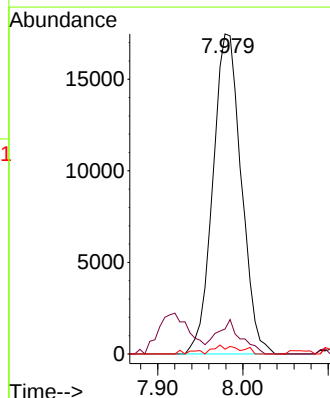
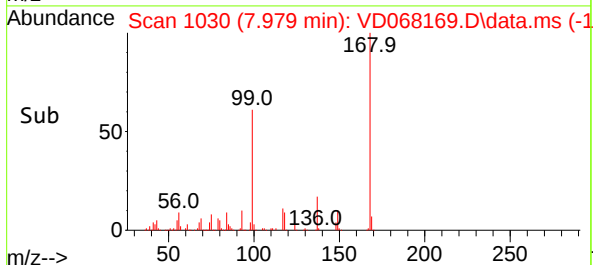
Tgt Ion:113 Resp: 237511
Ion Ratio Lower Upper
113 100
111 103.1 81.4 122.0
192 18.4 16.1 24.1

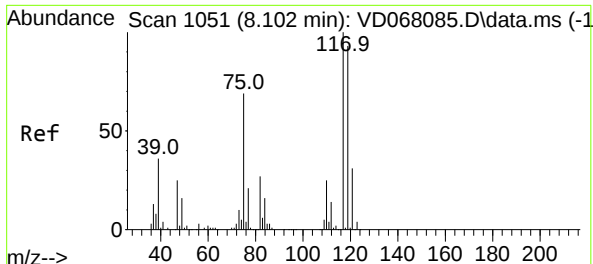


#36
1,1-Dichloropropene
Concen: 4.71 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.141 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02



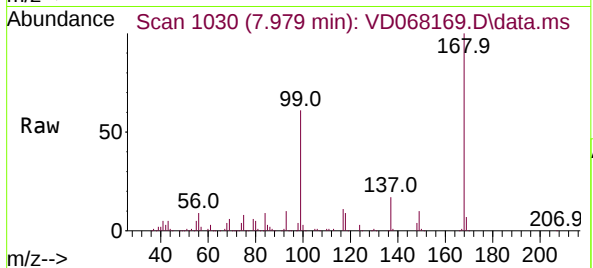
Tgt Ion: 75 Resp: 40484
Ion Ratio Lower Upper
75 100
110 9.0 19.4 58.2#
77 2.5 25.3 37.9#



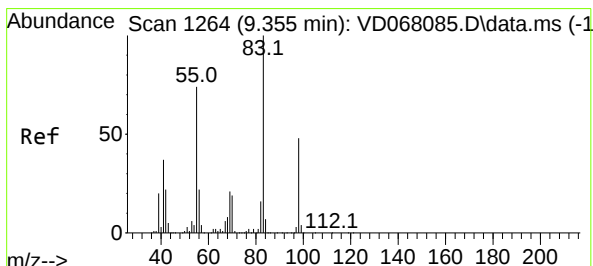
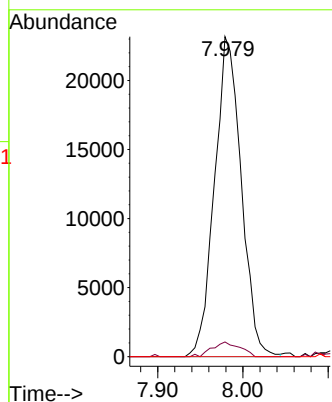
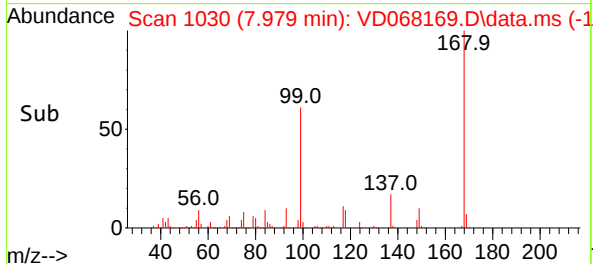


#38
Carbon Tetrachloride
Concen: 6.27 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.123 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

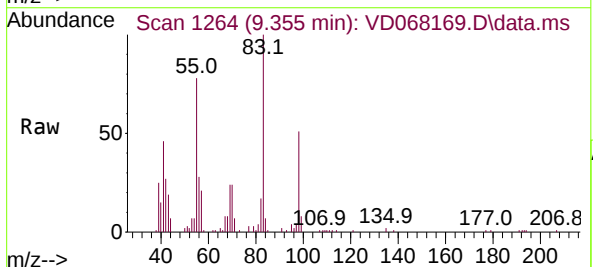
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MSVOA_D
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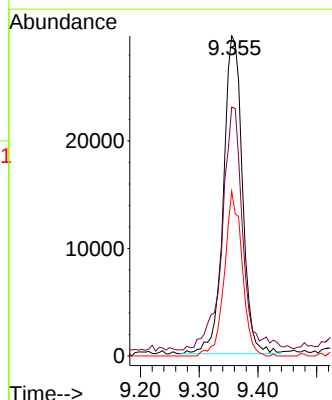
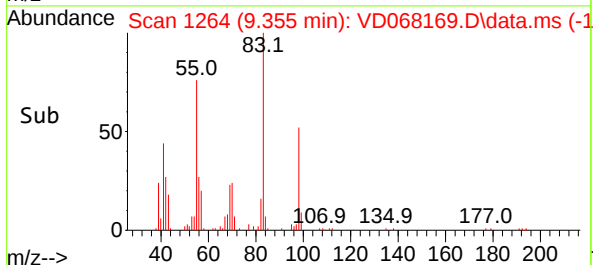
Tgt Ion:117 Resp: 50430
Ion Ratio Lower Upper
117 100
119 4.6 77.3 115.9#
121 0.0 24.7 37.1#

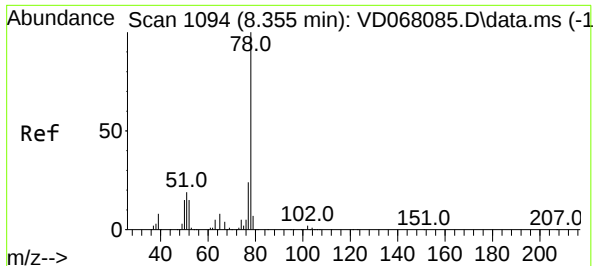


#39
Methylcyclohexane
Concen: 5.93 ug/l
RT: 9.355 min Scan# 1264
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02



Tgt Ion: 83 Resp: 66688
Ion Ratio Lower Upper
83 100
55 76.4 55.2 82.8
98 51.8 39.1 58.7

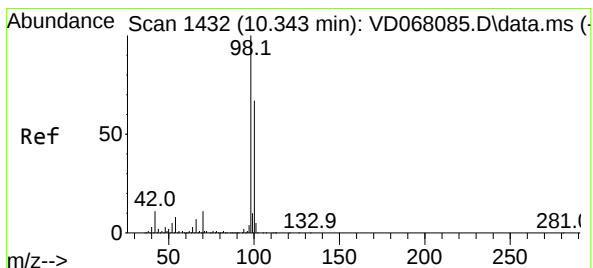
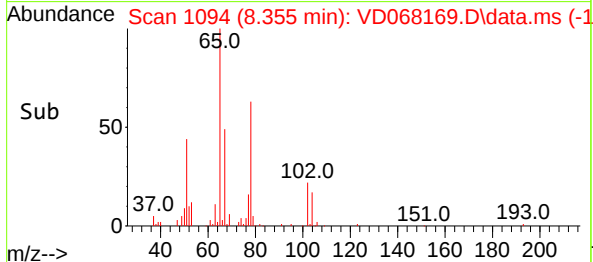
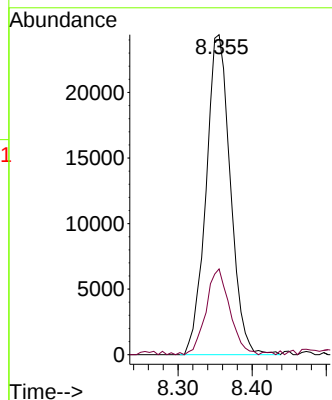
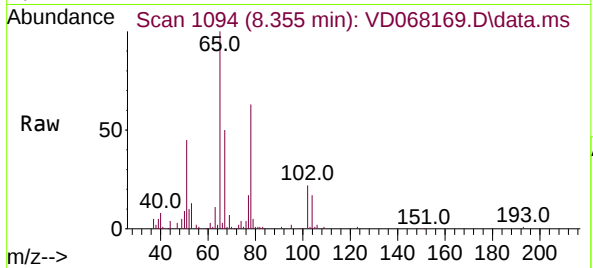




#40
Benzene
Concen: 2.31 ug/l
RT: 8.355 min Scan# 1094
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

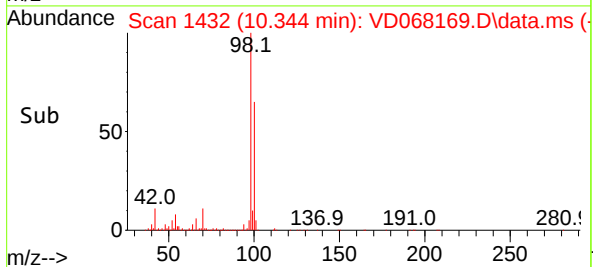
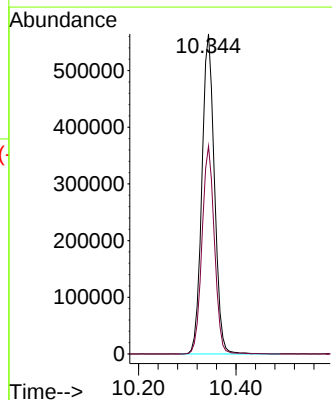
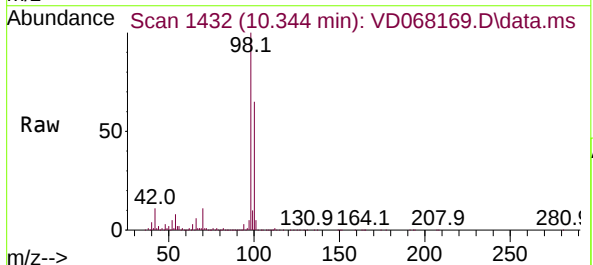
Instrument :
MSVOA_D
ClientSampled :

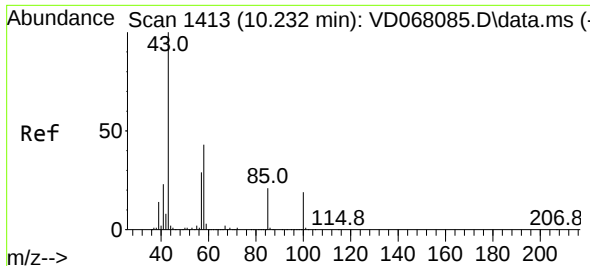
Tgt Ion: 78 Resp: 55610
Ion Ratio Lower Upper
78 100
77 26.1 17.8 26.6



#50
Toluene-d8
Concen: 53.40 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion: 98 Resp: 1007038
Ion Ratio Lower Upper
98 100
100 64.4 53.0 79.4

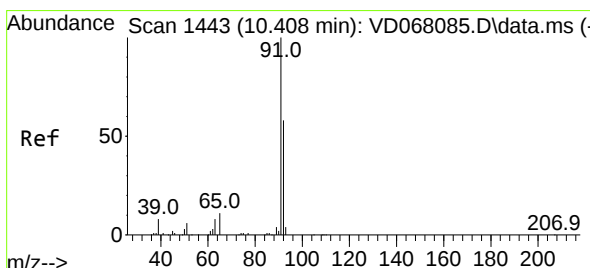
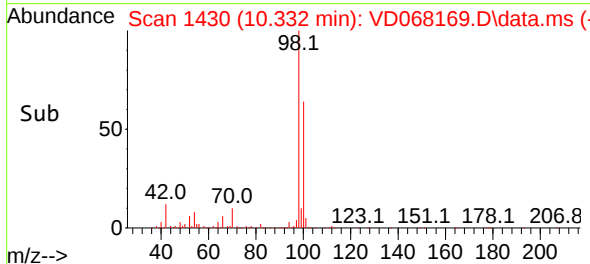
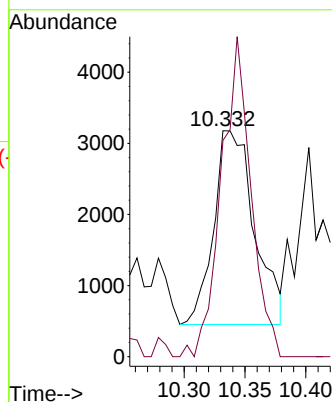
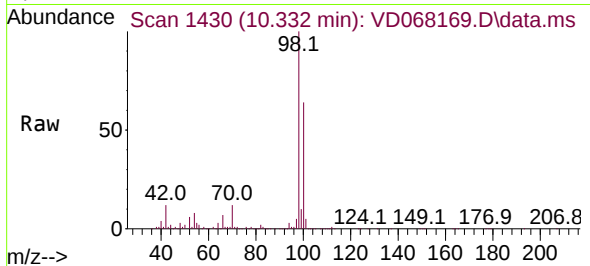




#51
4-Methyl-2-Pentanone
Concen: 2.15 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.100 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

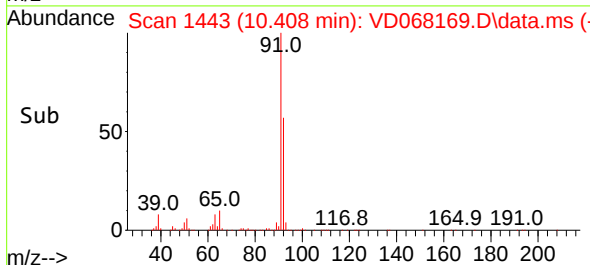
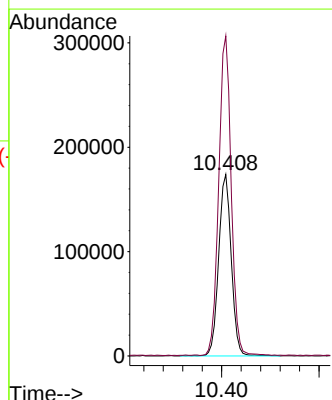
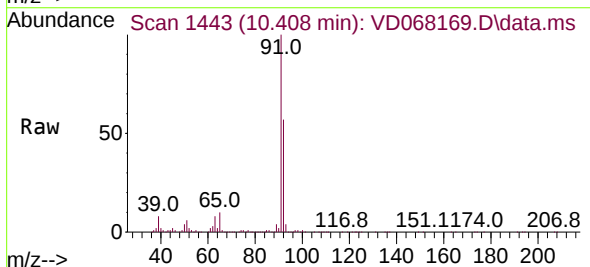
Instrument :
MSVOA_D
ClientSampled :

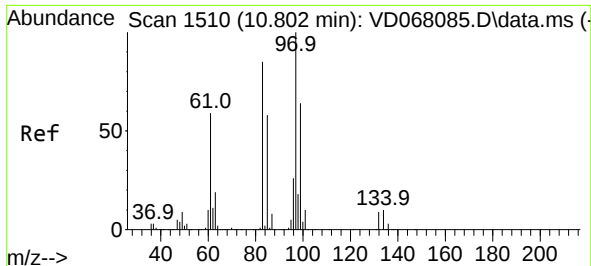
Tgt Ion: 43 Resp: 6350
Ion Ratio Lower Upper
43 100
58 119.6 36.1 54.1#



#52
Toluene
Concen: 19.91 ug/l
RT: 10.408 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion: 92 Resp: 311984
Ion Ratio Lower Upper
92 100
91 173.8 134.1 201.1

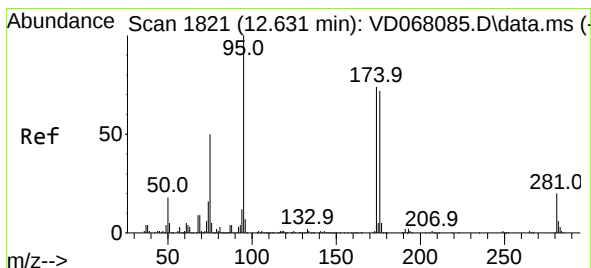
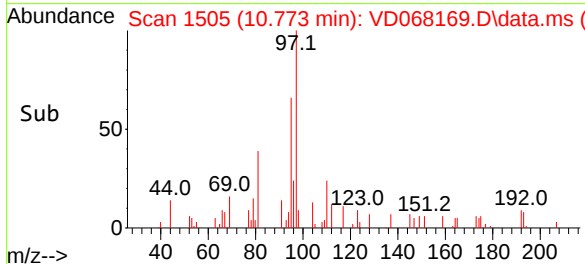
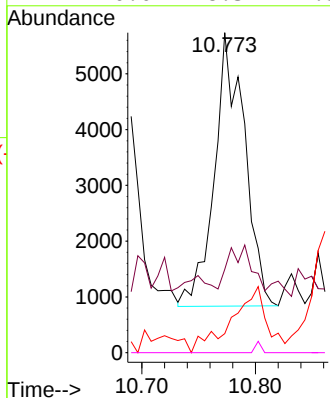
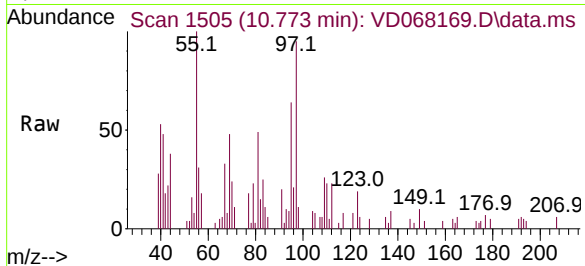




#55
1,1,2-Trichloroethane
Concen: 2.14 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.029 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

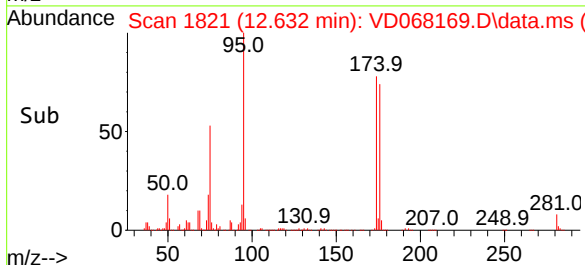
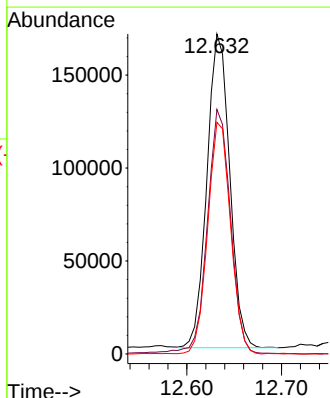
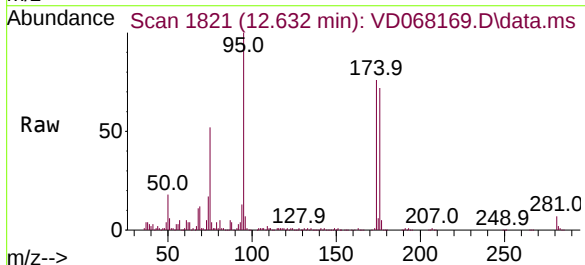
Instrument :
MSVOA_D
ClientSampleId :

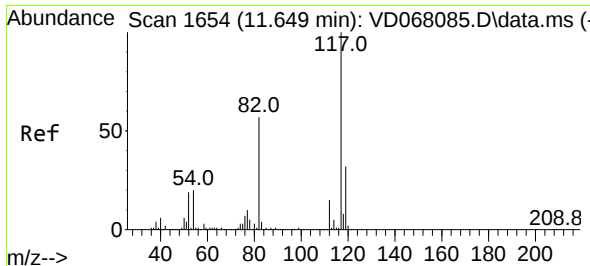
Tgt Ion:	97	Resp:	9029
Ion	Ratio	Lower	Upper
97	100		
83	6.7	61.8	92.6#
85	2.5	42.2	63.2#
99	0.0	48.3	72.5#



#62
4-Bromofluorobenzene
Concen: 41.61 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion:	95	Resp:	282573
Ion	Ratio	Lower	Upper
95	100		
174	79.1	0.0	172.4
176	74.1	0.0	168.4

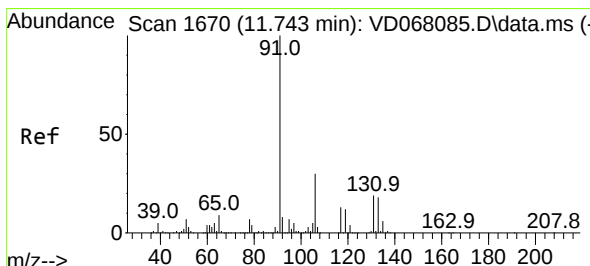
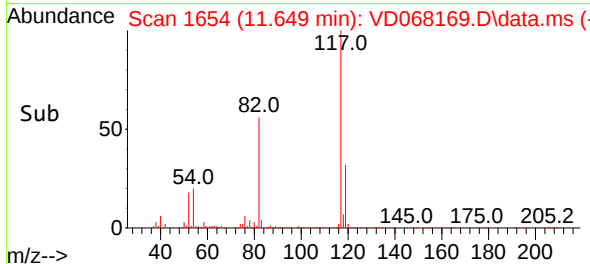
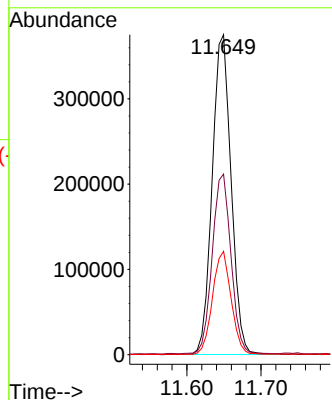
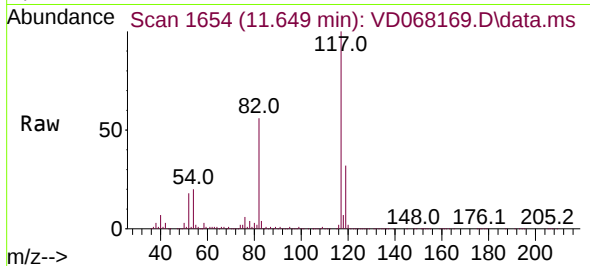




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.649 min Scan# 1654
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

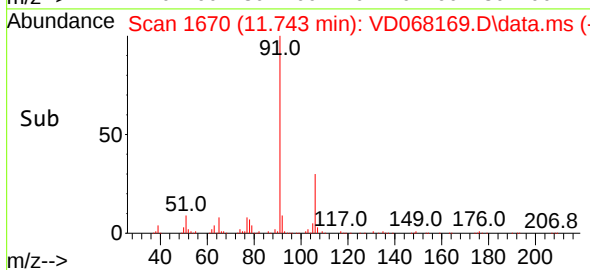
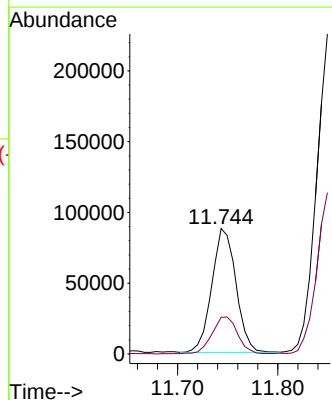
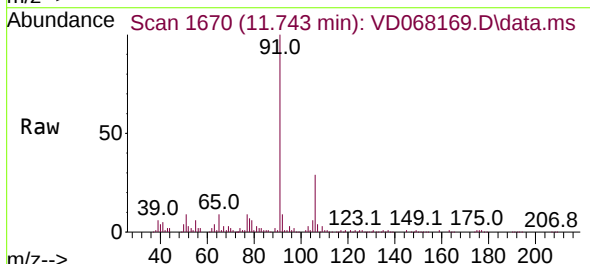
Instrument :
MSVOA_D
ClientSampleId :

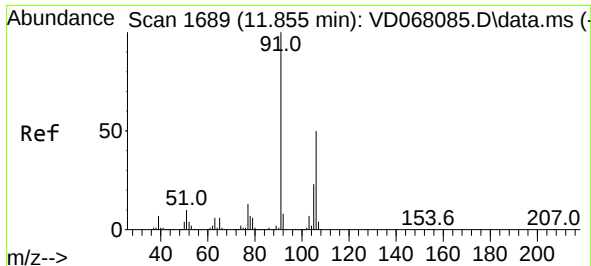
Tgt Ion:117 Resp: 663397
Ion Ratio Lower Upper
117 100
82 56.2 41.4 62.0
119 32.3 26.1 39.1



#67
Ethyl Benzene
Concen: 5.60 ug/l
RT: 11.743 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion: 91 Resp: 146275
Ion Ratio Lower Upper
91 100
106 29.3 25.9 38.9

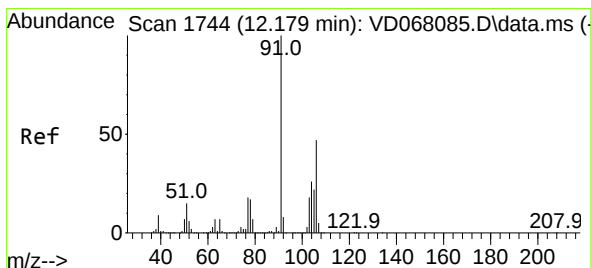
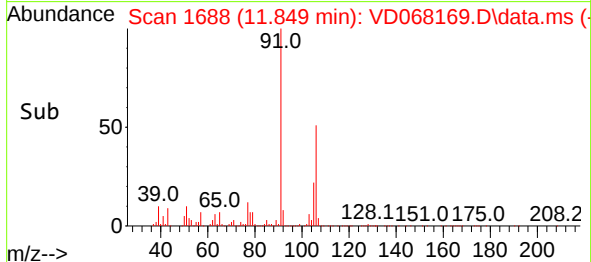
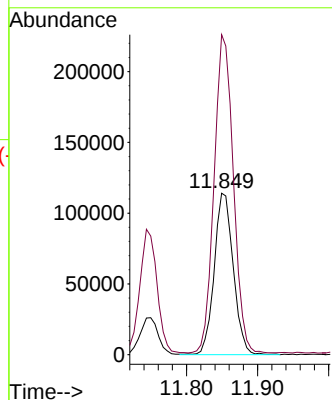
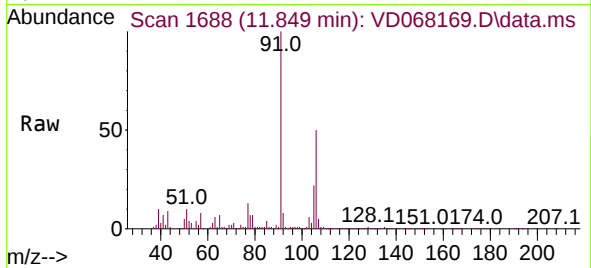




#68
m/p-Xylenes
Concen: 21.51 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. -0.006 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

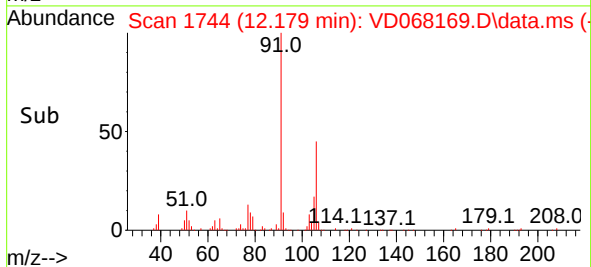
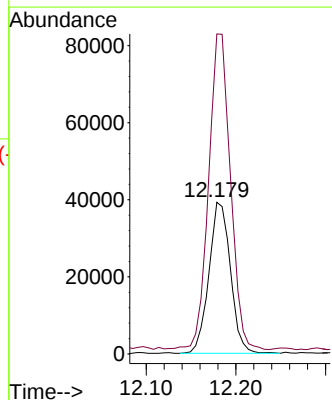
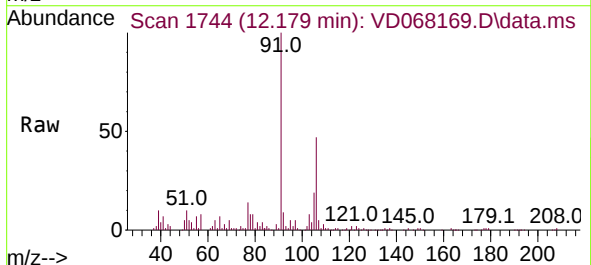
Instrument :
MSVOA_D
ClientSampled :

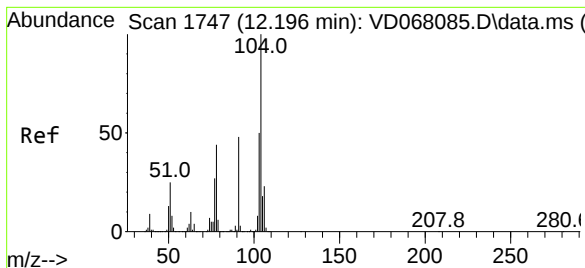
Tgt Ion:106 Resp: 211965
Ion Ratio Lower Upper
106 100
91 198.7 159.1 238.7



#69
o-Xylene
Concen: 7.13 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion:106 Resp: 65268
Ion Ratio Lower Upper
106 100
91 211.4 108.7 325.9





#70

Styrene

Concen: 1.02 ug/l

RT: 12.196 min Scan# 1747

Delta R.T. 0.000 min

Lab File: VD068169.D

Acq: 25 Jan 2021 15:02

Tgt Ion:104 Resp: 15908

Ion Ratio Lower Upper

104 100

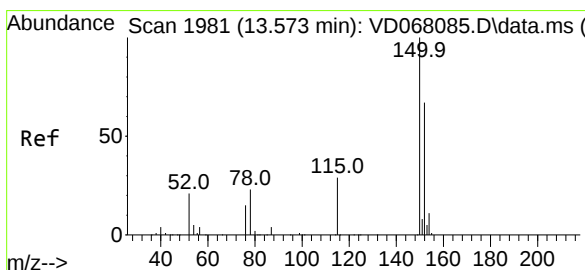
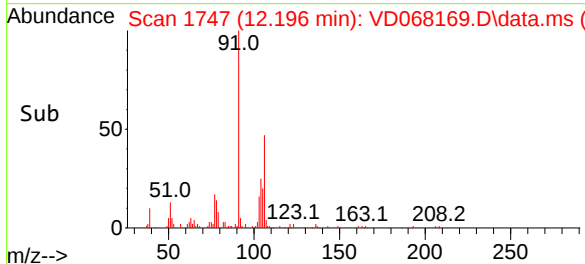
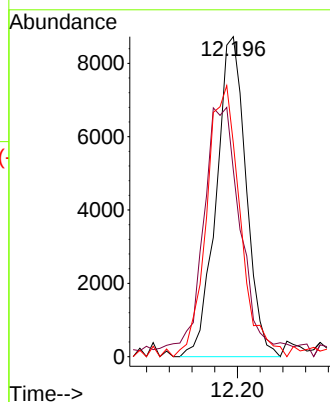
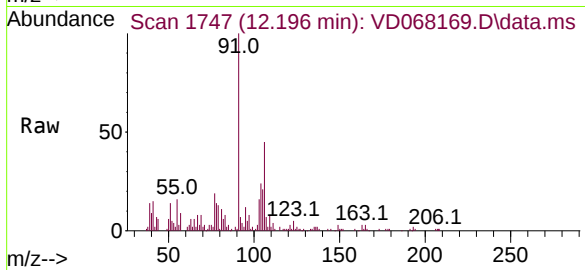
78 102.5 38.2 57.2#

103 94.9 43.1 64.7#

Instrument :

MSVOA_D

ClientSampled :



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.573 min Scan# 1981

Delta R.T. 0.000 min

Lab File: VD068169.D

Acq: 25 Jan 2021 15:02

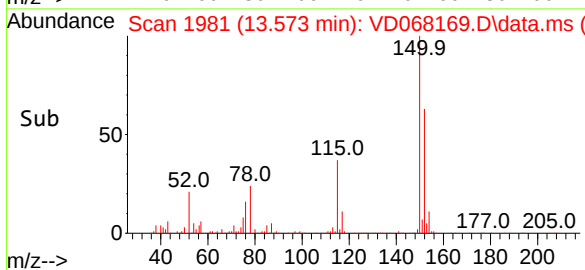
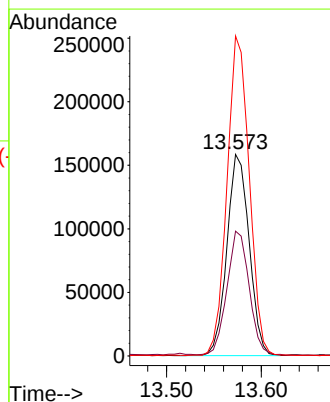
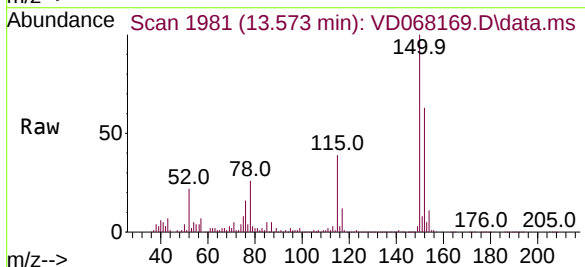
Tgt Ion:152 Resp: 258869

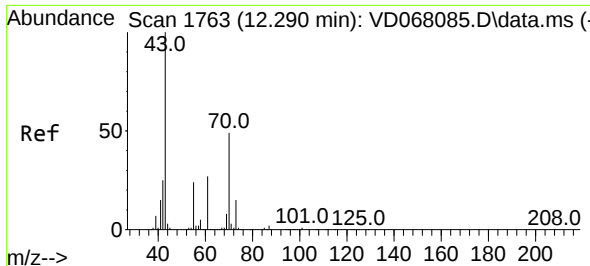
Ion Ratio Lower Upper

152 100

115 61.4 28.9 86.8

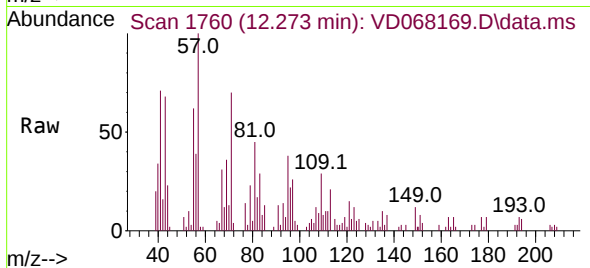
150 158.0 0.0 344.4



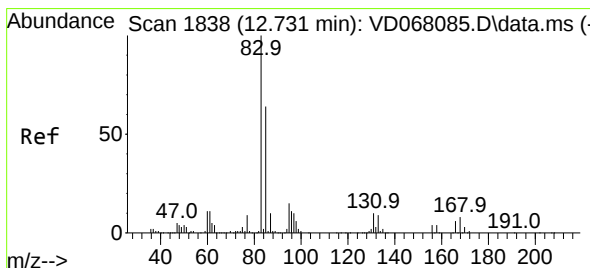
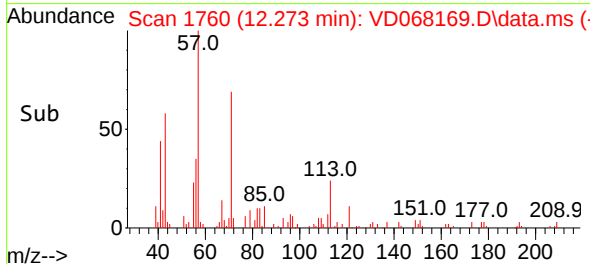
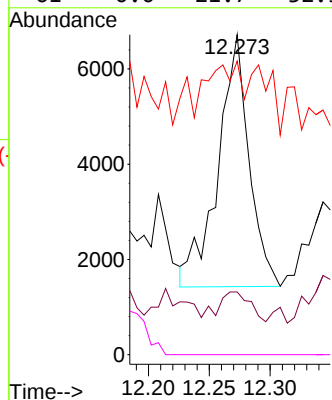


#74
N-amy1 acetate
Concen: 2.10 ug/l
RT: 12.273 min Scan# 1760
Delta R.T. -0.017 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

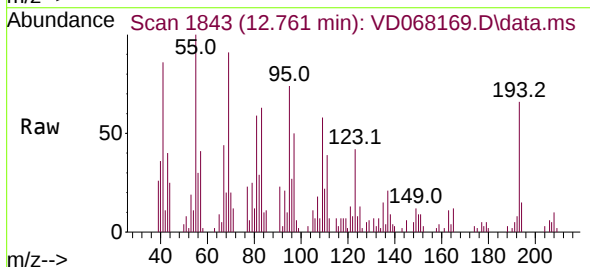
Instrument :
MSVOA_D
ClientSampled :



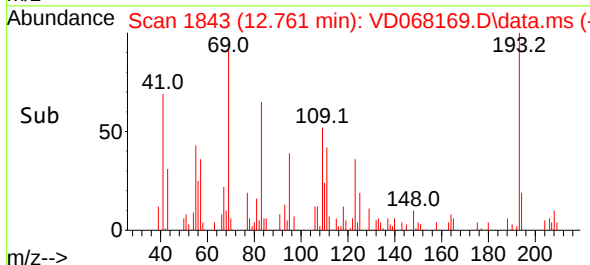
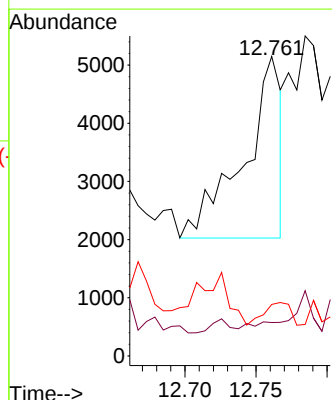
Tgt Ion: 43	Resp: 9382
Ion Ratio	Lower Upper
43 100	
70 12.0	41.8 62.8#
55 9.5	24.2 36.4#
61 0.0	21.7 32.5#

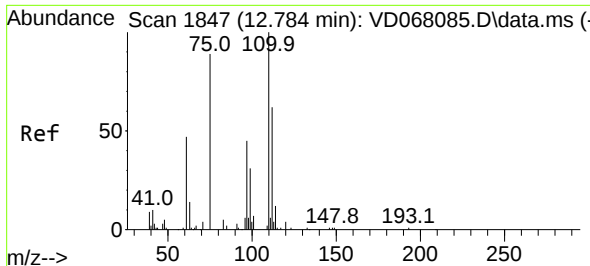


#75
1,1,2,2-Tetrachloroethane
Concen: 1.66 ug/l
RT: 12.761 min Scan# 1843
Delta R.T. 0.030 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02



Tgt Ion: 83	Resp: 5697
Ion Ratio	Lower Upper
83 100	
131 0.0	5.8 17.4#
85 0.0	32.4 97.2#

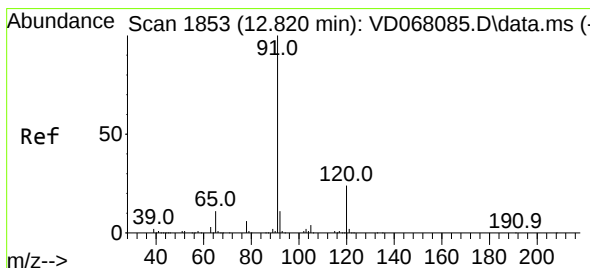
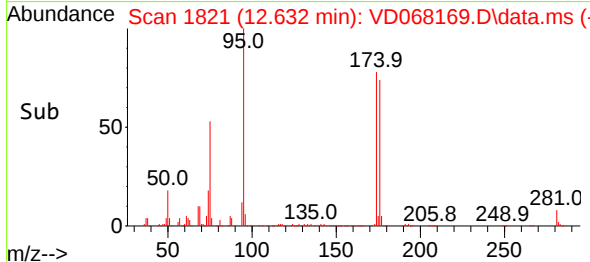
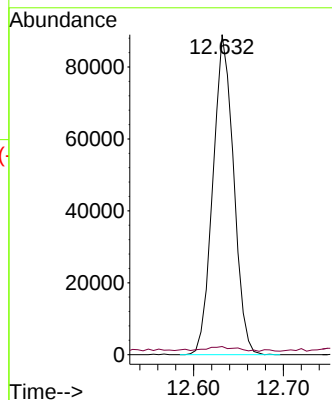
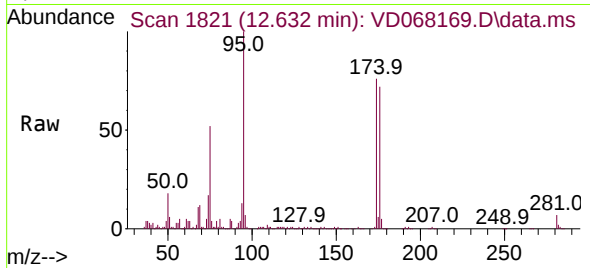




#76
1,2,3-Trichloropropane
Concen: 57.08 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.153 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

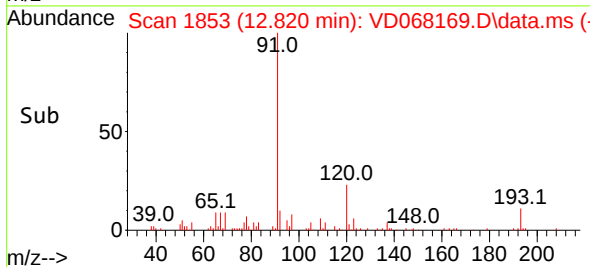
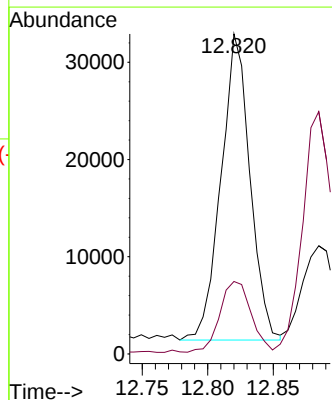
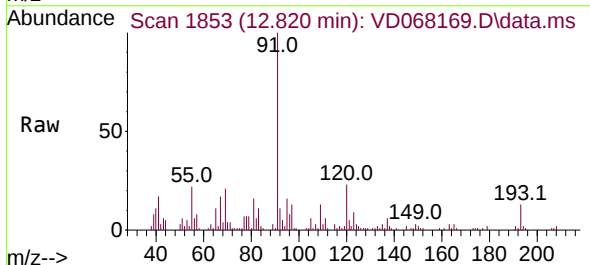
Instrument :
MSVOA_D
ClientSampled :

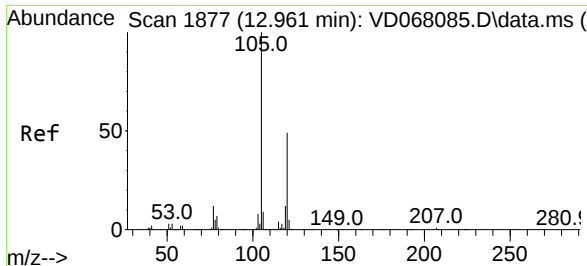
Tgt Ion: 75 Resp: 142867
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#78
n-propylbenzene
Concen: 1.90 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion: 91 Resp: 48408
Ion Ratio Lower Upper
91 100
120 24.8 12.0 36.0

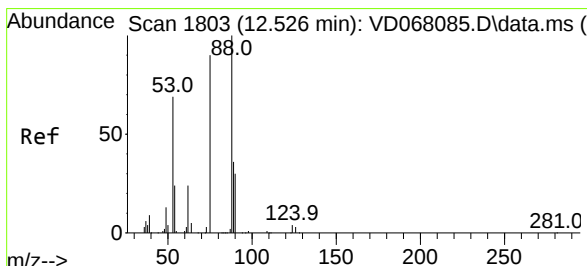
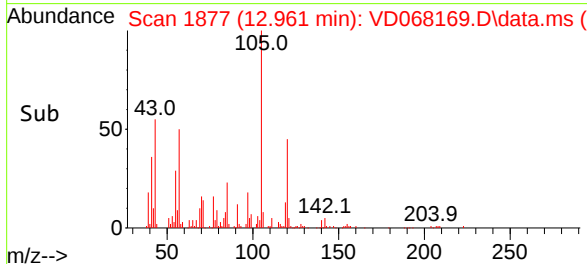
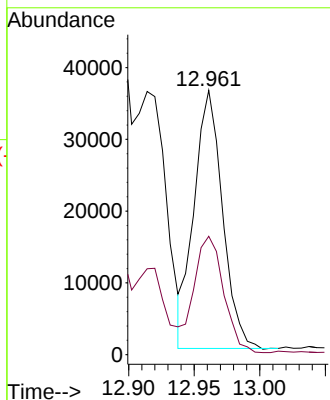
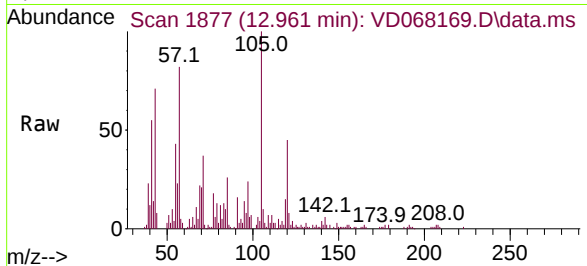




#80
1,3,5-Trimethylbenzene
Concen: 3.02 ug/l
RT: 12.961 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

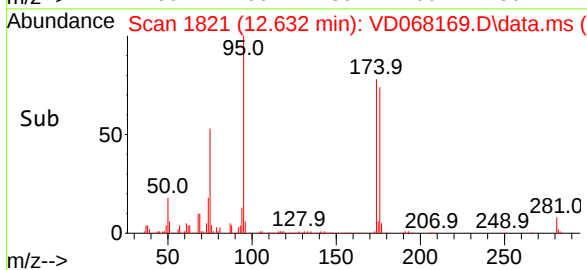
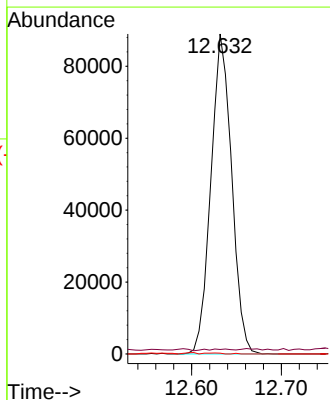
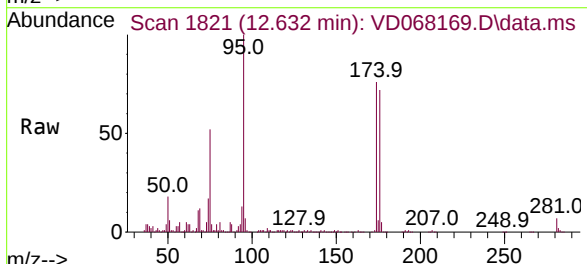
Instrument :
MSVOA_D
ClientSampleId :

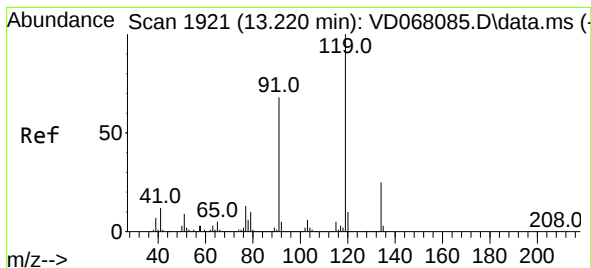
Tgt Ion:105 Resp: 54103
Ion Ratio Lower Upper
105 100
120 47.0 24.2 72.6



#81
trans-1,4-Dichloro-2-butene
Concen: 115.50 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion: 75 Resp: 142867
Ion Ratio Lower Upper
75 100
53 0.7 70.2 105.2#
89 0.2 40.3 60.5#

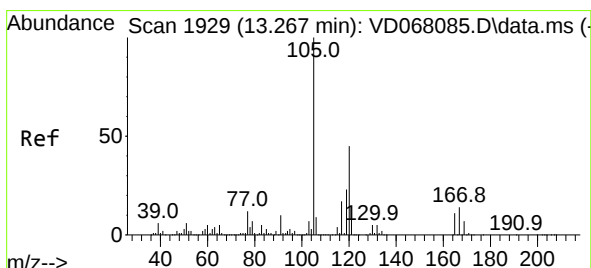
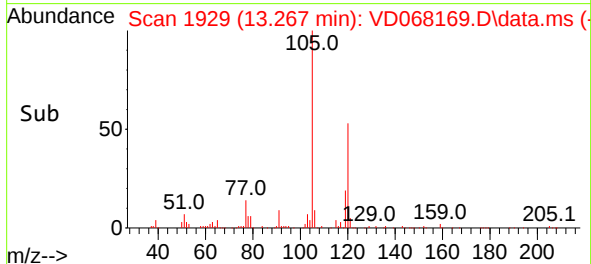
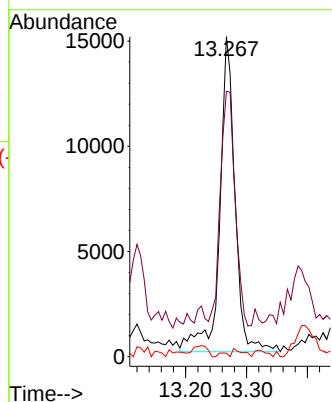
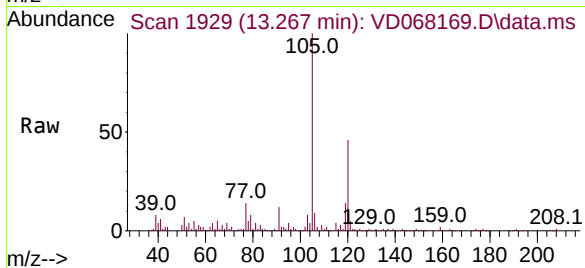




#83
tert-Butylbenzene
Concen: 1.72 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.047 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

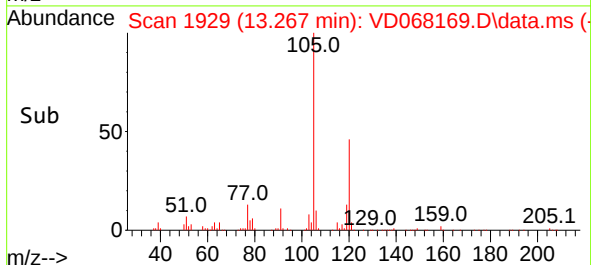
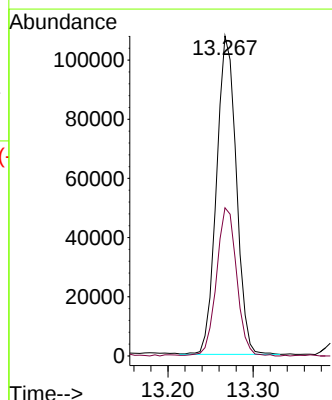
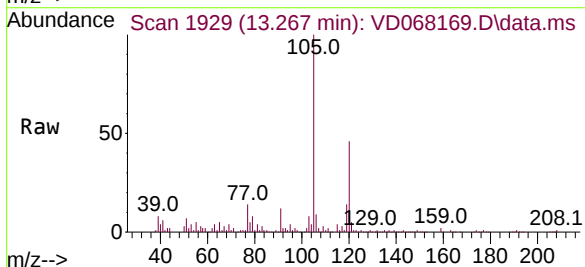
Instrument :
MSVOA_D
ClientSampled :

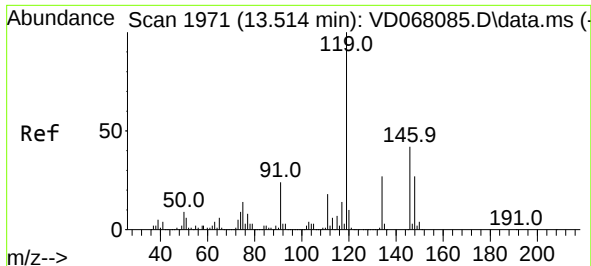
Tgt Ion:119 Resp: 26180
Ion Ratio Lower Upper
119 100
91 71.5 31.1 93.5
134 0.7 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: 9.74 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion:105 Resp: 173460
Ion Ratio Lower Upper
105 100
120 47.5 22.4 67.0

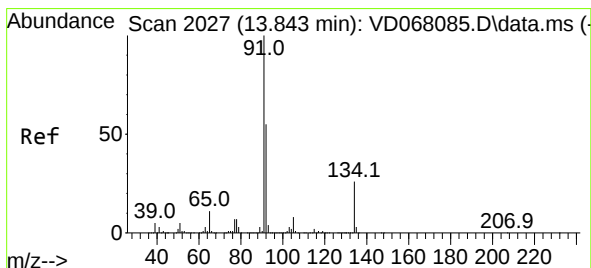
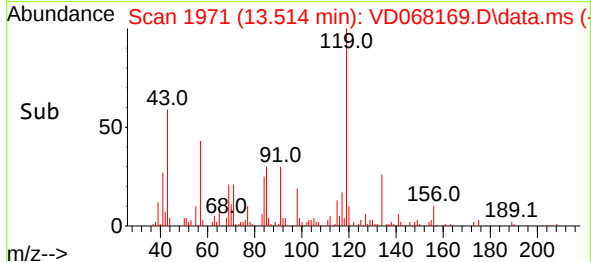
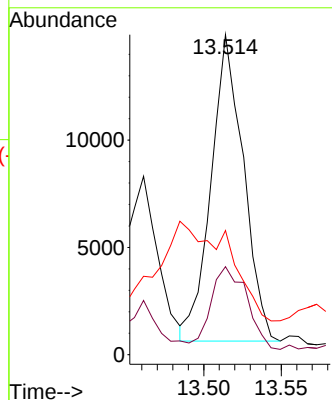
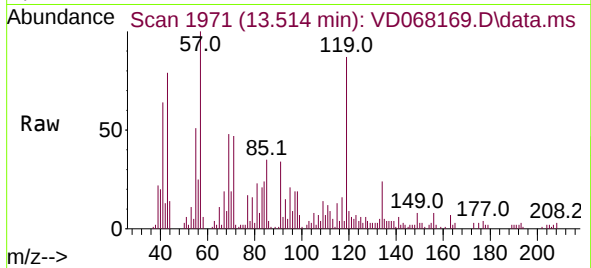




#86
p-Isopropyltoluene
Concen: 1.07 ug/l
RT: 13.514 min Scan# 1971
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

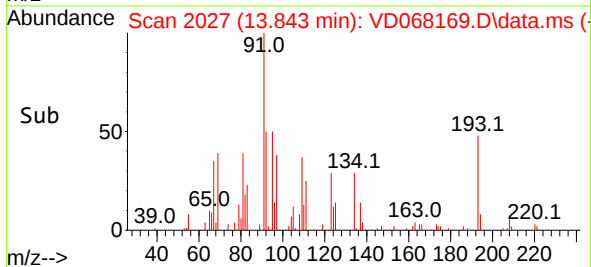
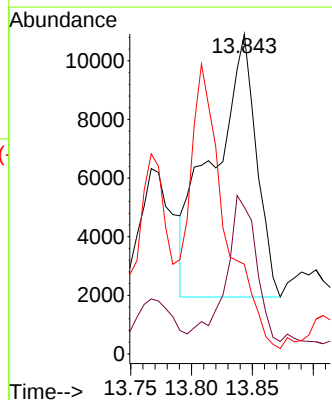
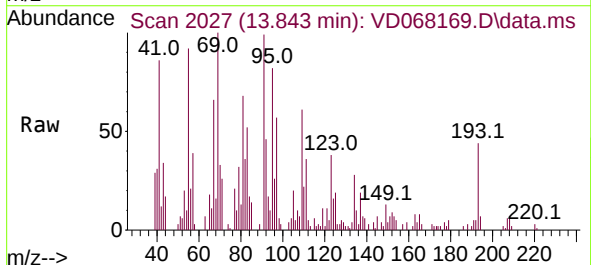
Instrument :
MSVOA_D
ClientSampleId :

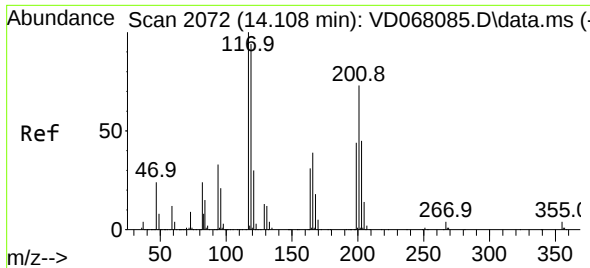
Tgt Ion:119 Resp: 20775
Ion Ratio Lower Upper
119 100
134 30.2 12.9 38.7
91 0.0 11.7 35.0#



#89
n-Butylbenzene
Concen: 1.20 ug/l
RT: 13.843 min Scan# 2027
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion: 91 Resp: 22182
Ion Ratio Lower Upper
91 100
92 38.7 27.2 81.6
134 0.0 13.9 41.7#

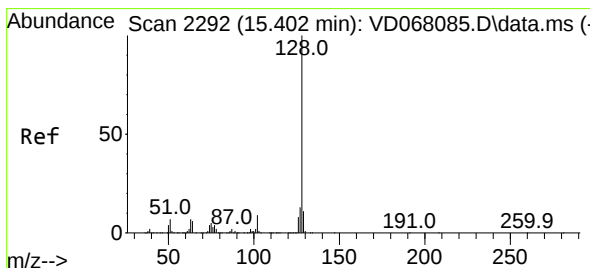
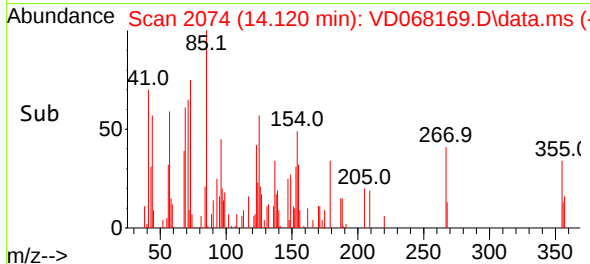
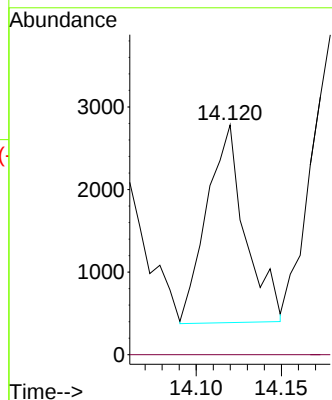
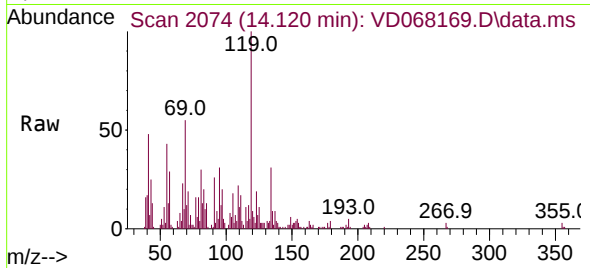




#90
Hexachloroethane
Concen: 1.08 ug/l
RT: 14.120 min Scan# 2074
Delta R.T. 0.012 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:117 Resp: 3759
Ion Ratio Lower Upper
117 100
201 0.0 39.5 118.5#



#95
Naphthalene
Concen: 1.37 ug/l
RT: 15.402 min Scan# 2292
Delta R.T. 0.000 min
Lab File: VD068169.D
Acq: 25 Jan 2021 15:02

Tgt Ion:128 Resp: 13348
Ion Ratio Lower Upper
128 100
127 16.5 10.2 15.2#
129 8.2 8.8 13.2#

