

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092021\
 Data File : VD070389.D
 Acq On : 20 Sep 2021 17:40
 Operator : VA/SY
 Sample : M3792-03RE
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RT4213RE

Quant Time: Sep 21 03:35:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D090821S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 09 03:07:09 2021
 Response via : Initial Calibration

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

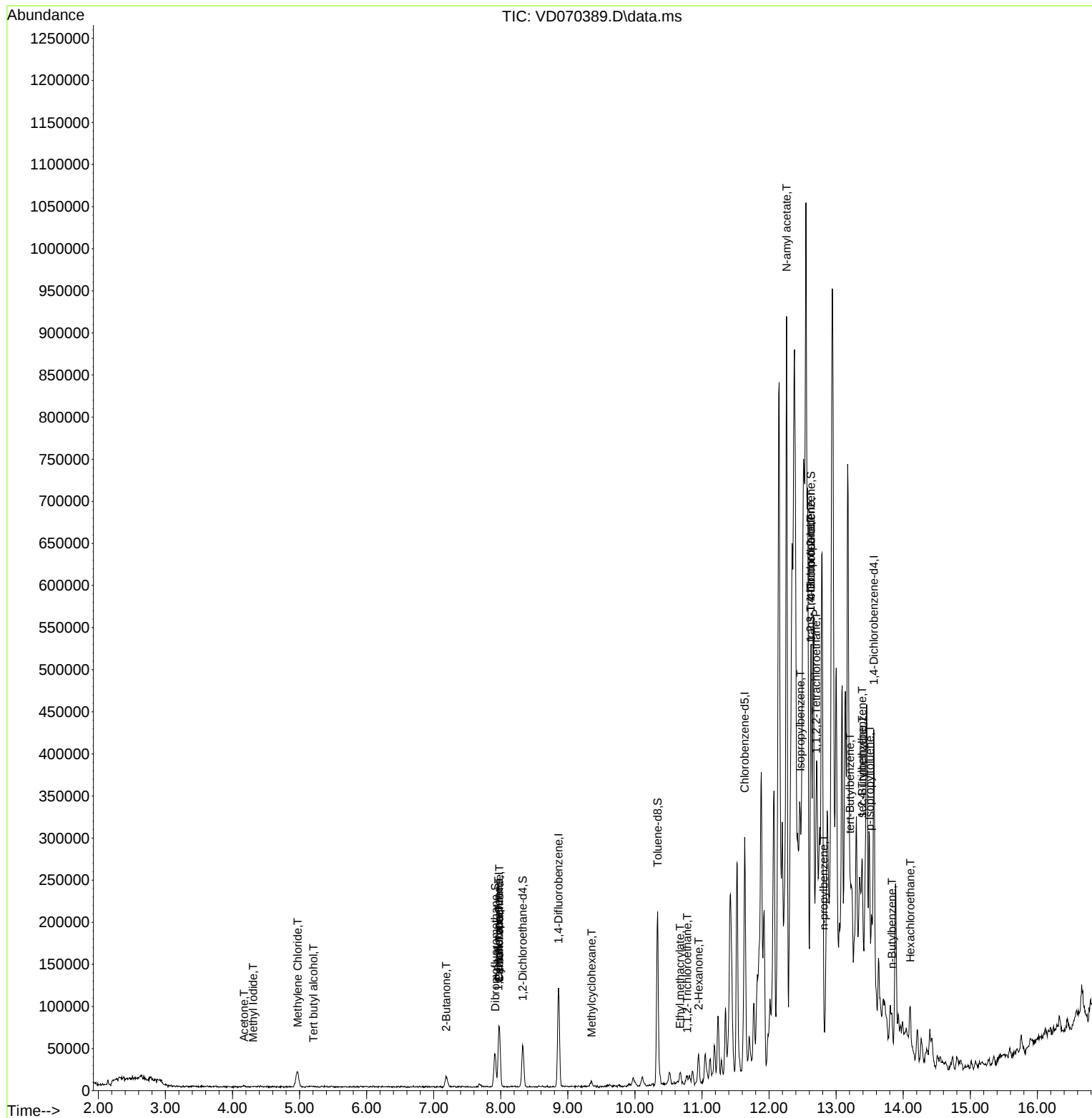
Internal Standards						
1) Pentafluorobenzene	7.973	168	51157	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	100340	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	154561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	70976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	38019	57.879	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.760%			
35) Dibromofluoromethane	7.920	113	29037	40.655	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 81.300%			
50) Toluene-d8	10.337	98	131955	50.885	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 101.760%			
62) 4-Bromofluorobenzene	12.625	95	99856	110.181	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 220.360%#			
Target Compounds						
					Qvalue	
3) Chloromethane	2.202	50	1138	Below Cal	#	85
5) Bromomethane	2.779	94	2086	Below Cal	#	76
6) Chloroethane	2.932	64	73	Below Cal	#	43
10) Methyl Iodide	4.308	142	893	2.410	ug/l #	55
11) Tert butyl alcohol	5.208	59	399	5.372	ug/l #	100
16) Acetone	4.173	43	1842	15.707	ug/l #	36
18) Methyl Acetate	4.832	43	57	Below Cal	#	48
20) Methylene Chloride	4.973	84	15284	15.971	ug/l #	84
25) 2-Butanone	7.185	43	269	1.723	ug/l #	47
31) Cyclohexane	7.973	56	1601	1.415	ug/l #	23
36) 1,1-Dichloropropene	7.967	75	4657	4.342	ug/l #	47
38) Carbon Tetrachloride	7.979	117	5610	5.289	ug/l #	12
39) Methylcyclohexane	9.355	83	2382	1.988	ug/l #	67
55) 1,1,2-Trichloroethane	10.778	97	3209	5.494	ug/l #	22
56) Ethyl methacrylate	10.673	69	1670	2.619	ug/l #	1
59) 2-Hexanone	10.949	43	10676	41.701	ug/l #	25
73) Isopropylbenzene	12.467	105	9889	1.987	ug/l	87
74) N-amyl acetate	12.261	43	159698	147.253	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.702	83	7539	7.072	ug/l #	26
76) 1,2,3-Trichloropropane	12.620	75	41146	57.312	ug/l #	1
78) n-propylbenzene	12.814	91	11330	1.754	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.620	75	41146	143.600	ug/l #	25
83) tert-Butylbenzene	13.208	119	16294	4.729	ug/l	96
84) 1,2,4-Trimethylbenzene	13.390	105	45419	10.737	ug/l #	32
85) sec-Butylbenzene	13.390	105	45419	8.293	ug/l #	57
86) p-Isopropyltoluene	13.502	119	6731	1.530	ug/l	91
89) n-Butylbenzene	13.831	91	17957	4.093	ug/l #	81
90) Hexachloroethane	14.108	117	3155	3.132	ug/l #	18

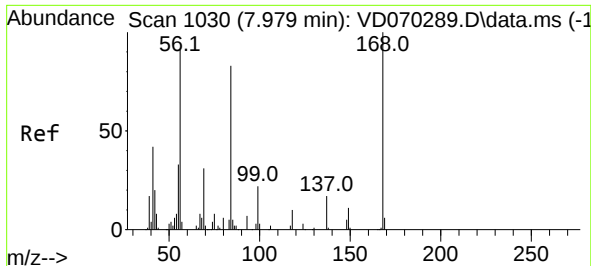
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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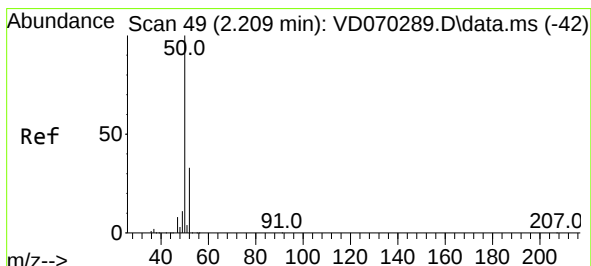
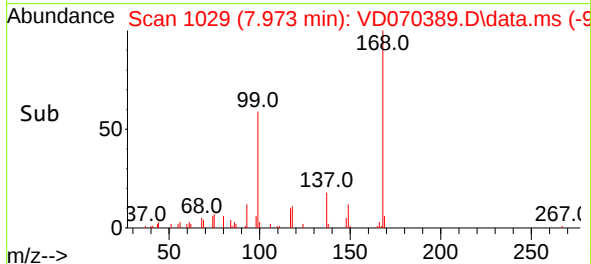
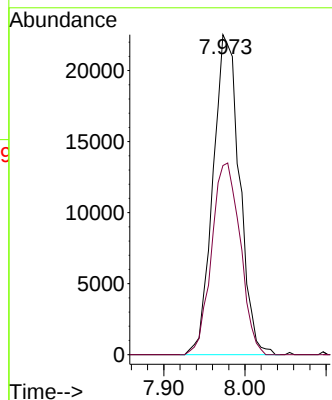
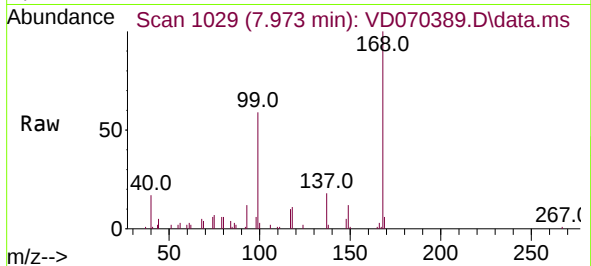




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

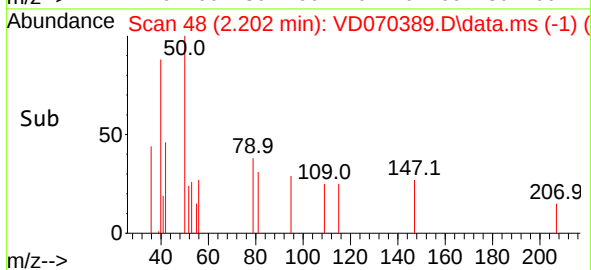
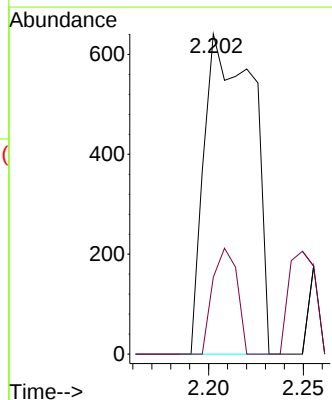
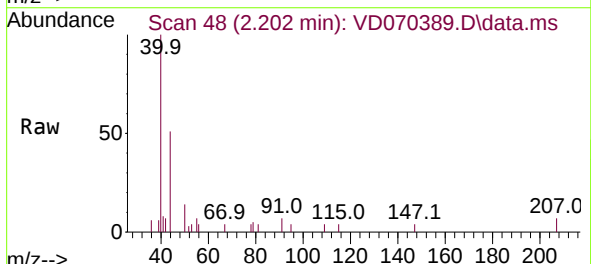
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

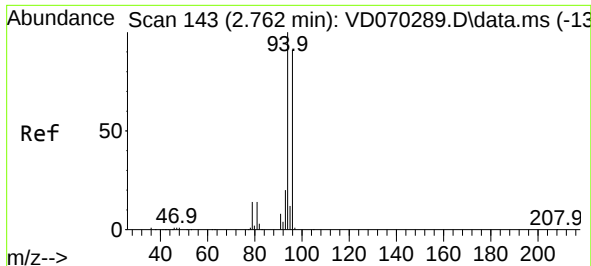
Tgt Ion:168 Resp: 51157
Ion Ratio Lower Upper
168 100
99 59.1 50.8 76.2



#3
Chloromethane
Concen: Below Cal
RT: 2.202 min Scan# 48
Delta R.T. -0.007 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 50 Resp: 1138
Ion Ratio Lower Upper
50 100
52 24.0 26.2 39.2#

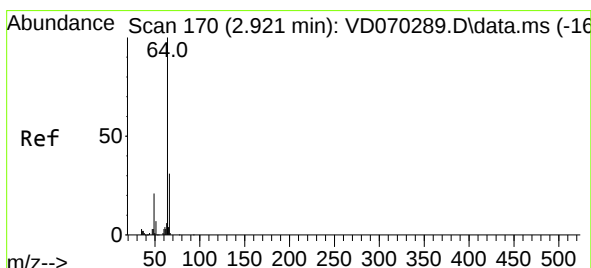
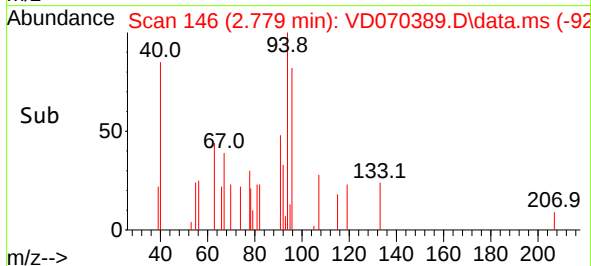
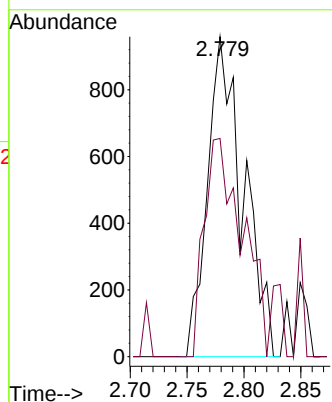
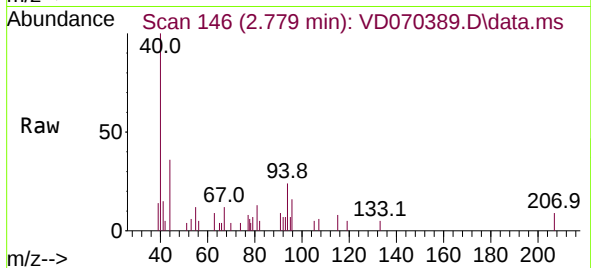




#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 146
Delta R.T. 0.017 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

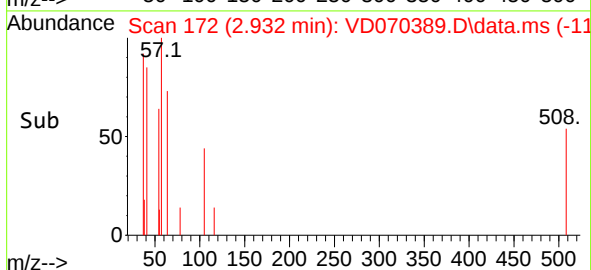
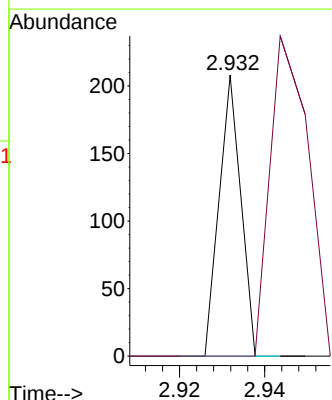
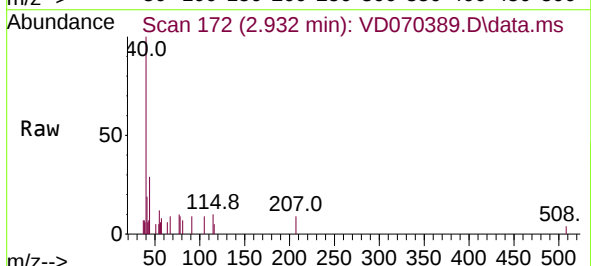
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

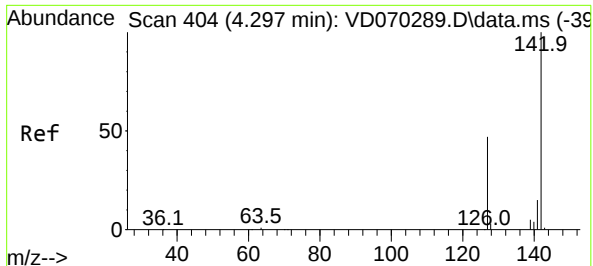
Tgt Ion: 94 Resp: 2086
Ion Ratio Lower Upper
94 100
96 68.2 73.0 109.6#



#6
Chloroethane
Concen: Below Cal
RT: 2.932 min Scan# 172
Delta R.T. 0.011 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 64 Resp: 73
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#

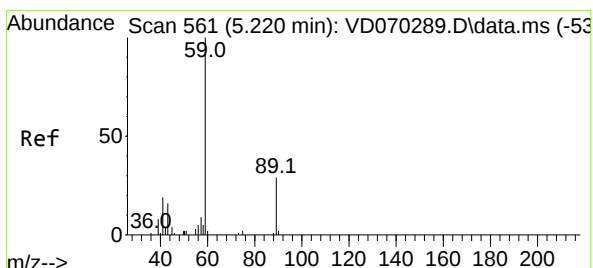
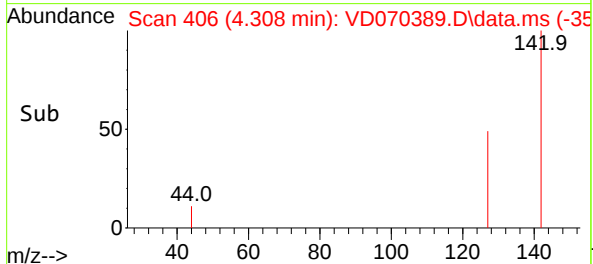
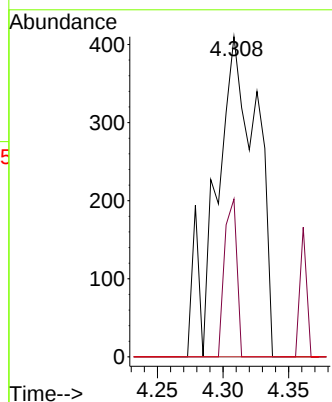
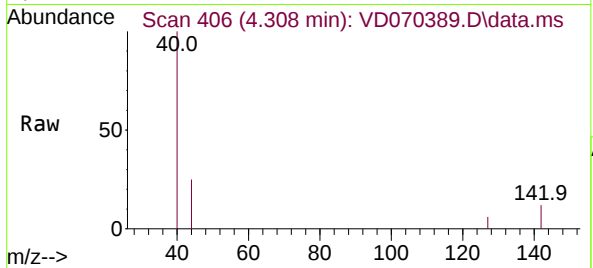




#10
Methyl Iodide
Concen: 2.410 ug/l
RT: 4.308 min Scan# 406
Delta R.T. 0.011 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

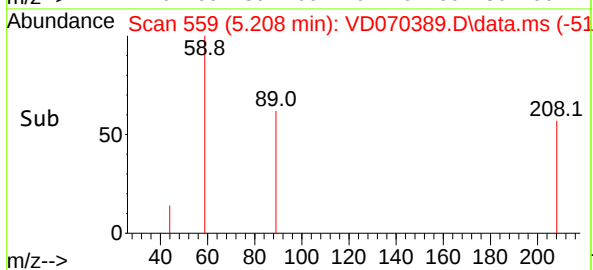
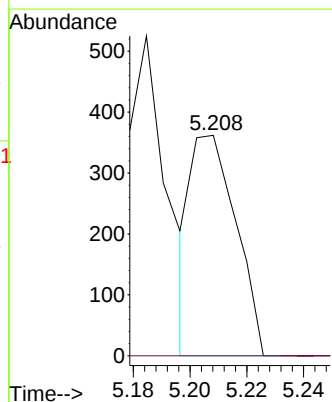
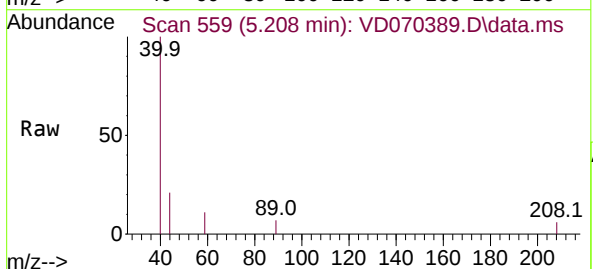
Instrument :
MSVOA_D
ClientSampleID :
RT4213RE

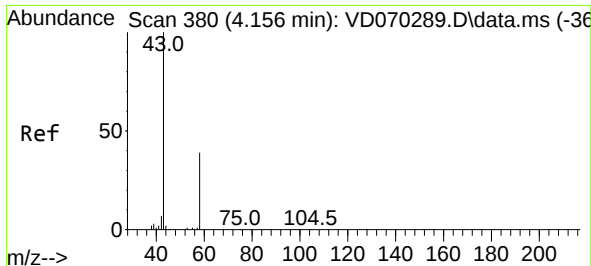
Tgt Ion:142 Resp: 893
Ion Ratio Lower Upper
142 100
127 14.7 36.9 55.3#
141 0.0 11.8 17.6#



#11
Tert butyl alcohol
Concen: 5.372 ug/l
RT: 5.208 min Scan# 559
Delta R.T. -0.012 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 59 Resp: 399
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

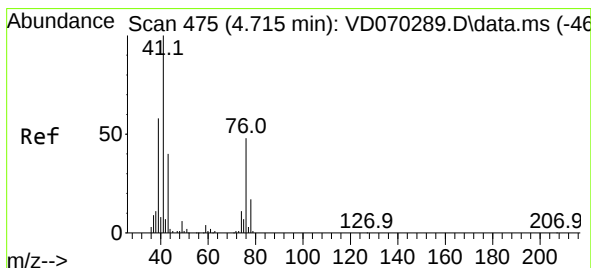
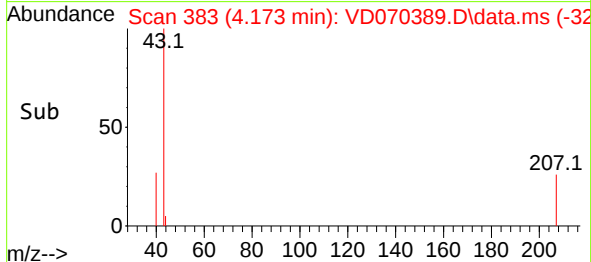
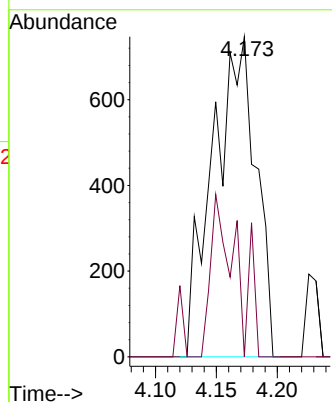
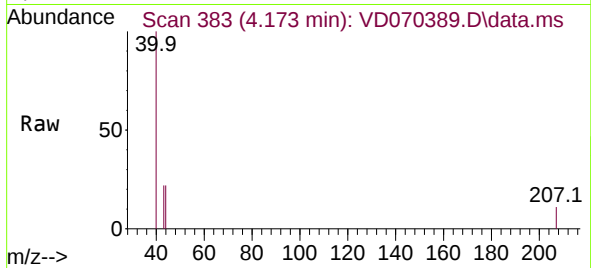




#16
Acetone
Concen: 15.707 ug/l
RT: 4.173 min Scan# 383
Delta R.T. 0.017 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

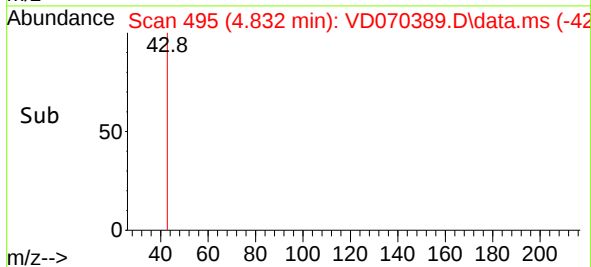
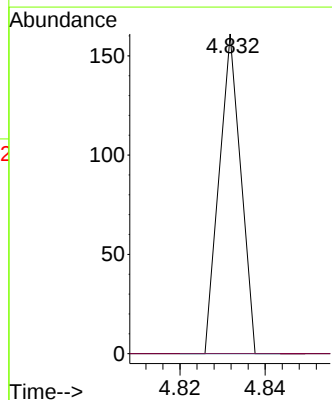
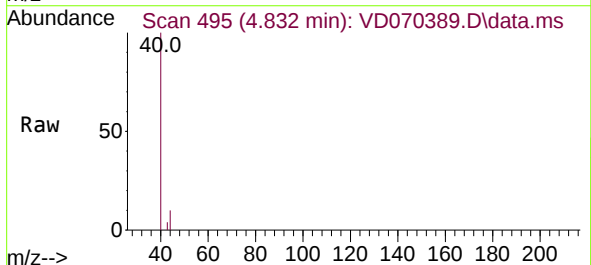
Instrument :
MSVOA_D
ClientSampleID :
RT4213RE

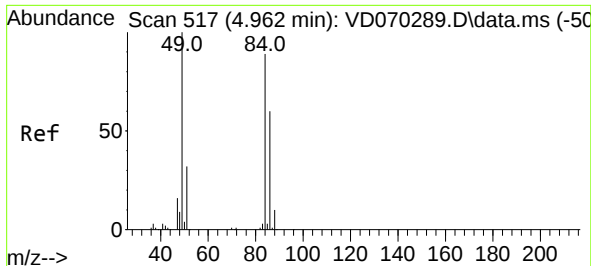
Tgt Ion: 43 Resp: 1842
Ion Ratio Lower Upper
43 100
58 0.0 30.9 46.3#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.832 min Scan# 495
Delta R.T. 0.117 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

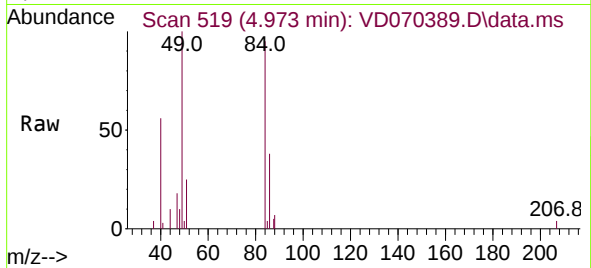
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4#



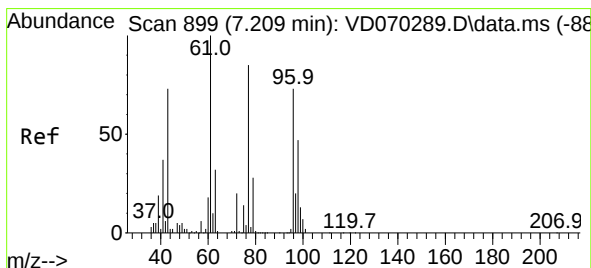
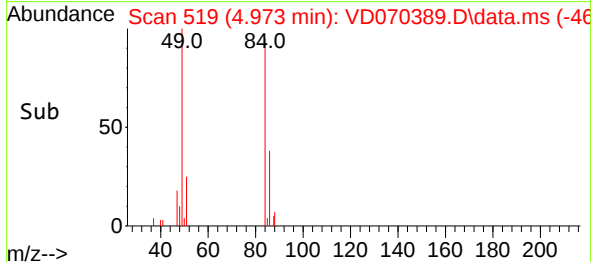
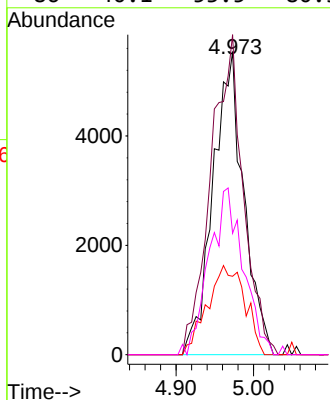


#20
Methylene Chloride
Concen: 15.971 ug/l
RT: 4.973 min Scan# 519
Delta R.T. 0.011 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

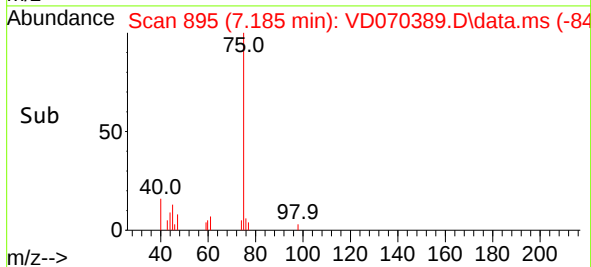
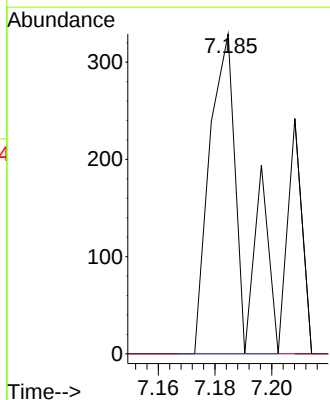
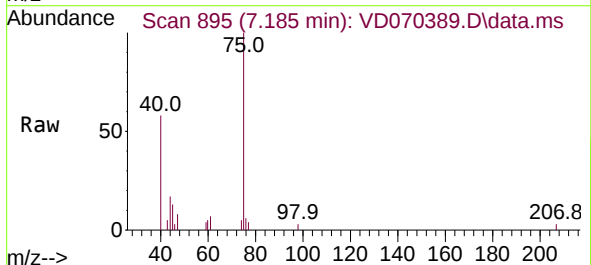


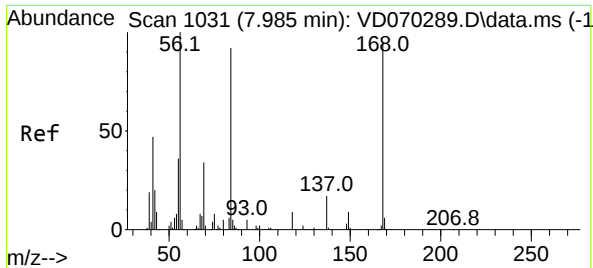
Tgt Ion:	84	Resp:	15284
Ion	Ratio	Lower	Upper
84	100		
49	105.6	89.6	134.4
51	25.9	28.6	43.0#
86	40.1	53.5	80.3#



#25
2-Butanone
Concen: 1.723 ug/l
RT: 7.185 min Scan# 895
Delta R.T. -0.024 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion:	43	Resp:	269
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.2	33.4#

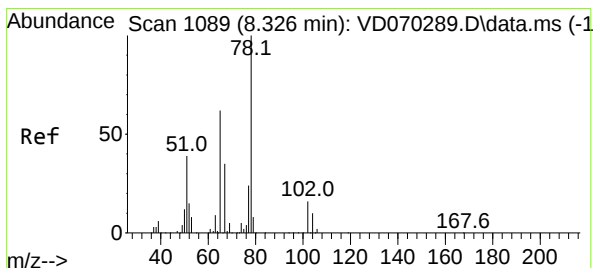
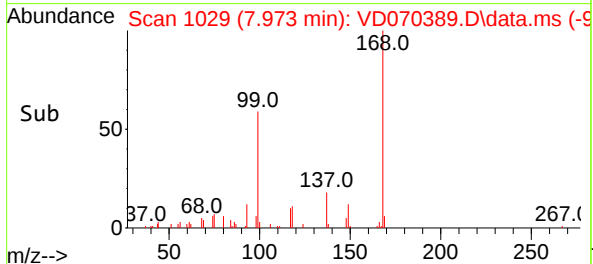
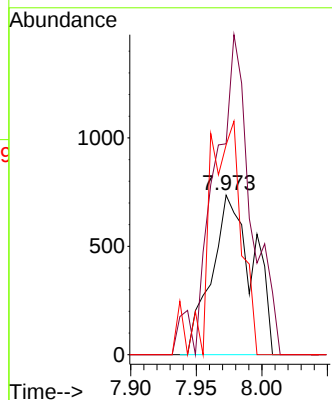
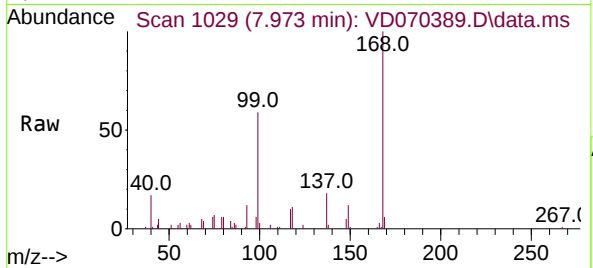




#31
Cyclohexane
Concen: 1.415 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

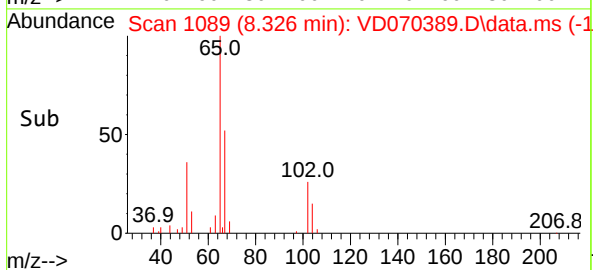
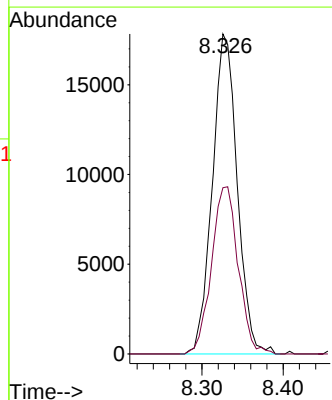
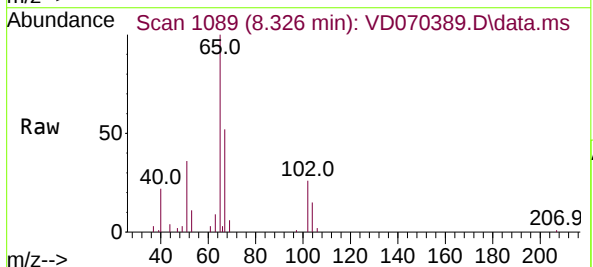
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

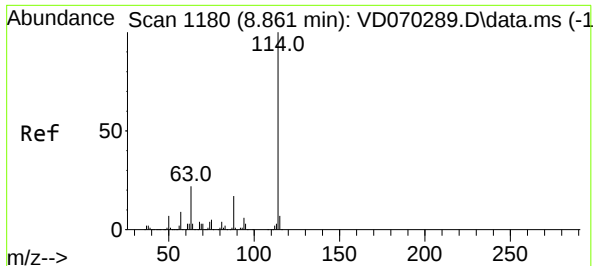
Tgt Ion: 56 Resp: 1601
Ion Ratio Lower Upper
56 100
69 132.2 26.9 40.3#
84 131.5 73.6 110.4#



#33
1,2-Dichloroethane-d4
Concen: 57.879 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 65 Resp: 38019
Ion Ratio Lower Upper
65 100
67 56.0 0.0 111.4



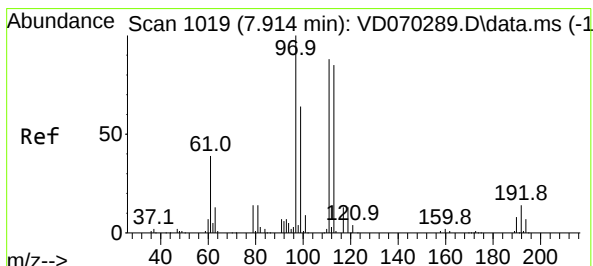
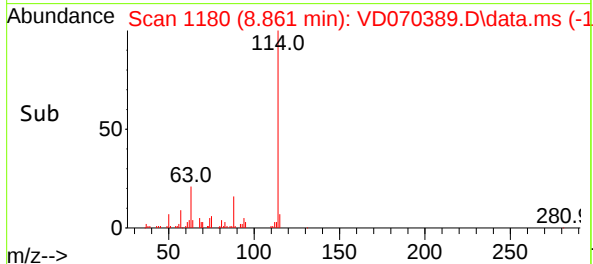
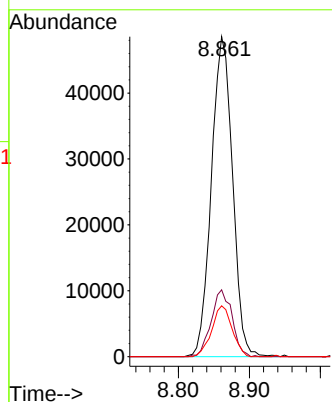
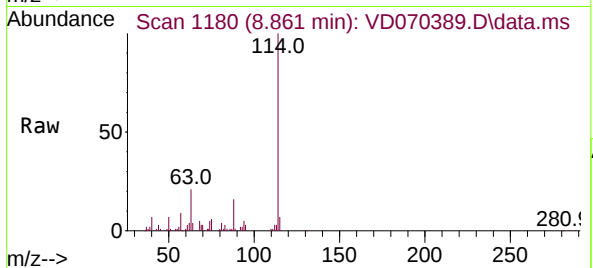


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

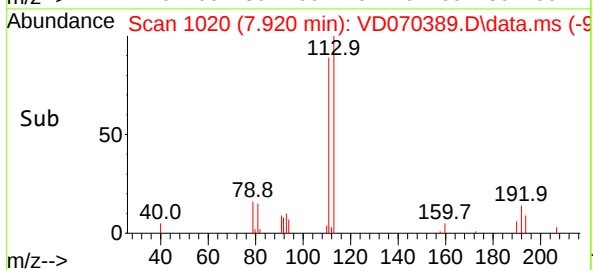
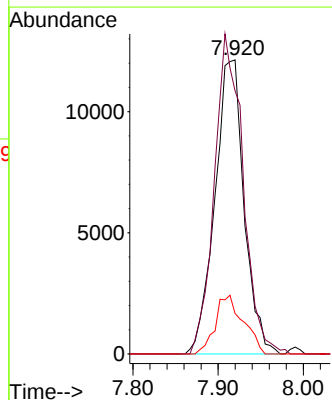
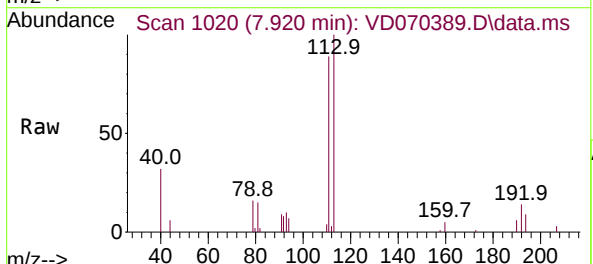
Tgt Ion:	114	Resp:	100340
Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.4
88	15.9	0.0	33.4

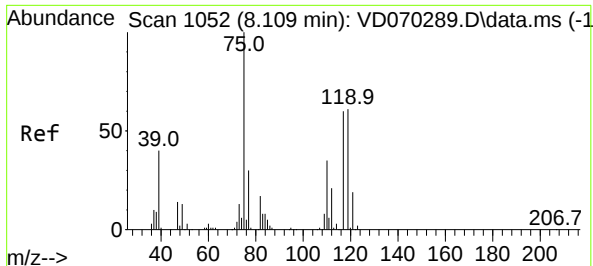


#35

Dibromofluoromethane
Concen: 40.655 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.005 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion:	113	Resp:	29037
Ion	Ratio	Lower	Upper
113	100		
111	106.5	81.4	122.2
192	19.1	13.0	19.6

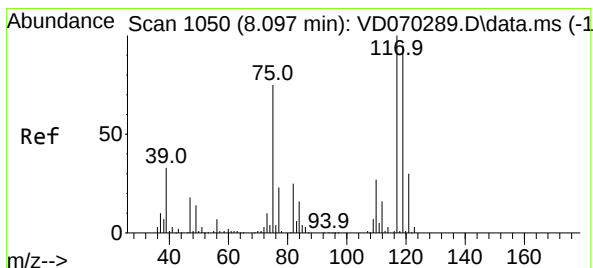
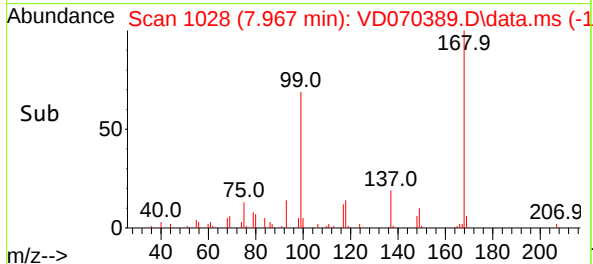
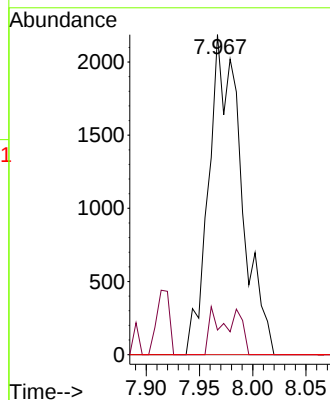
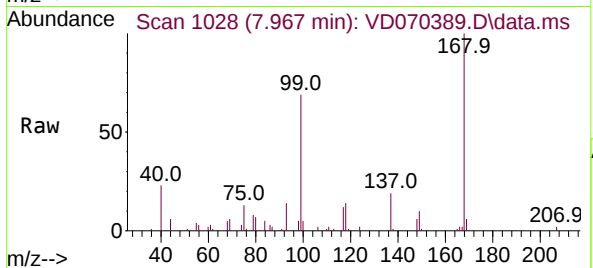




#36
1,1-Dichloropropene
Concen: 4.342 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.142 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

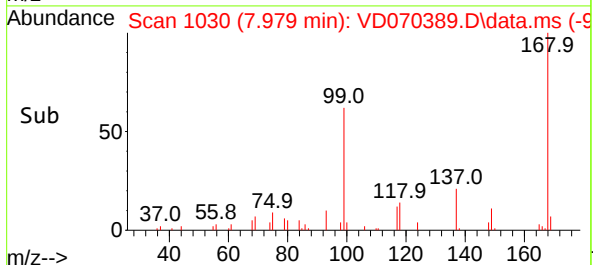
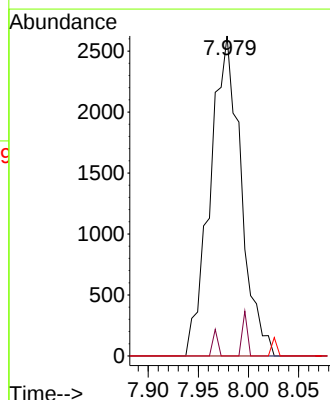
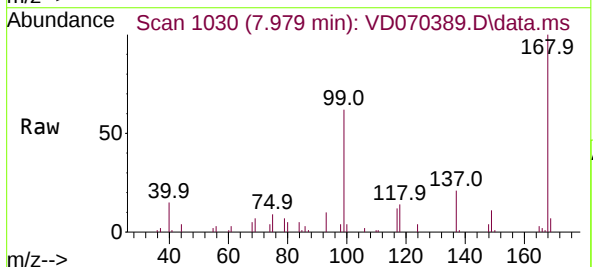
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

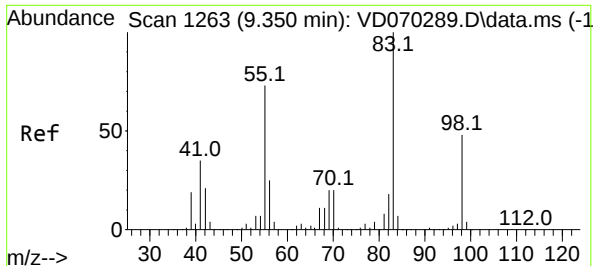
Tgt Ion: 75 Resp: 4657
Ion Ratio Lower Upper
75 100
110 6.5 17.9 53.7#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 5.289 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 117 Resp: 5610
Ion Ratio Lower Upper
117 100
119 0.0 76.1 114.1#
121 0.0 23.8 35.6#





#39

Methylcyclohexane

Concen: 1.988 ug/l

RT: 9.355 min Scan# 1264

Delta R.T. 0.005 min

Lab File: VD070389.D

Acq: 20 Sep 2021 17:40

Tgt Ion: 83 Resp: 2382

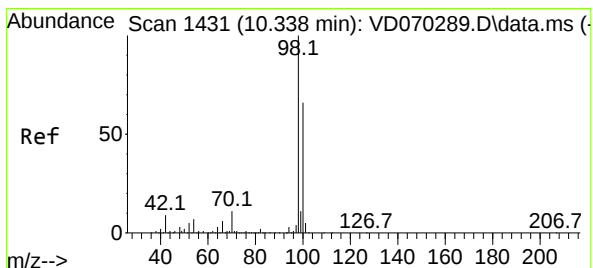
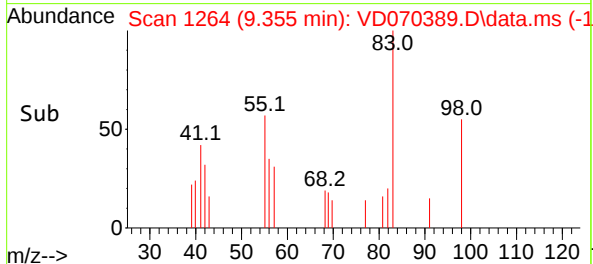
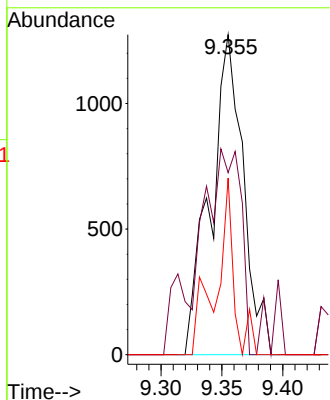
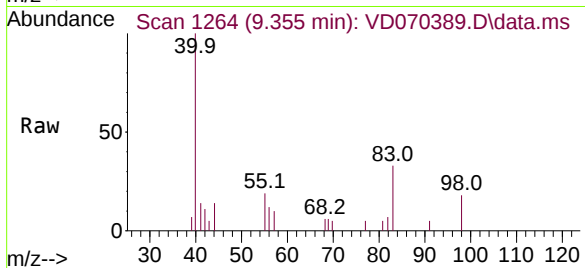
Ion	Ratio	Lower	Upper
83	100		
55	33.5	58.5	87.7#
98	55.2	38.4	57.6

Instrument :

MSVOA_D

ClientSampleId :

RT4213RE



#50

Toluene-d8

Concen: 50.885 ug/l

RT: 10.337 min Scan# 1431

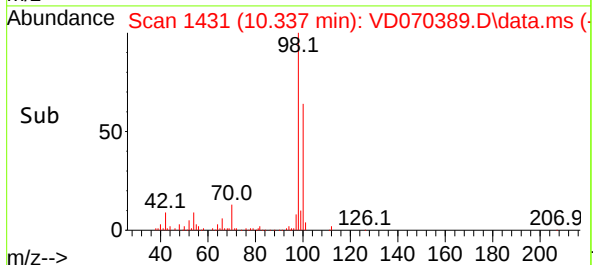
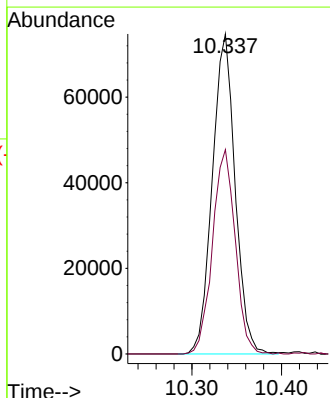
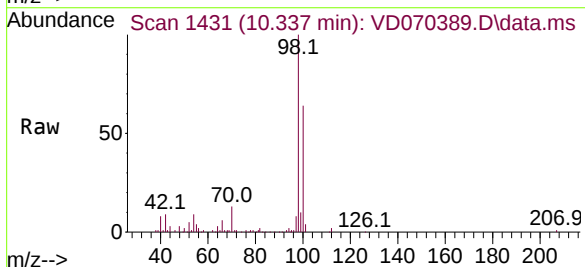
Delta R.T. -0.000 min

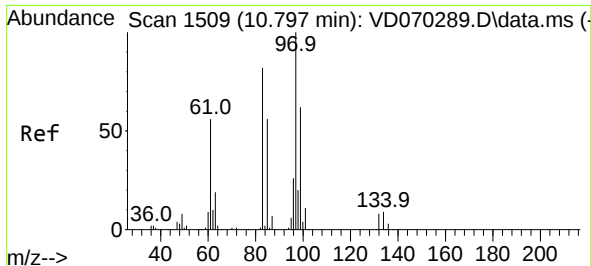
Lab File: VD070389.D

Acq: 20 Sep 2021 17:40

Tgt Ion: 98 Resp: 131955

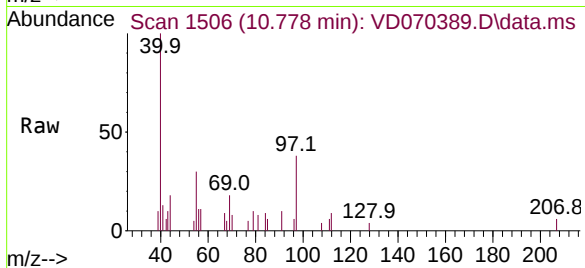
Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.0	78.0



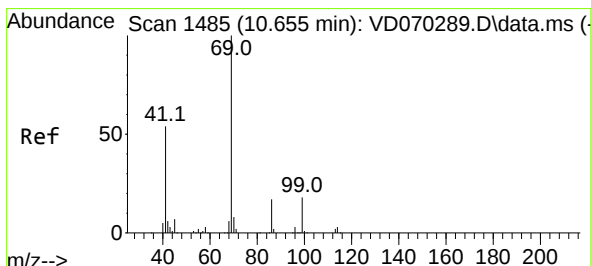
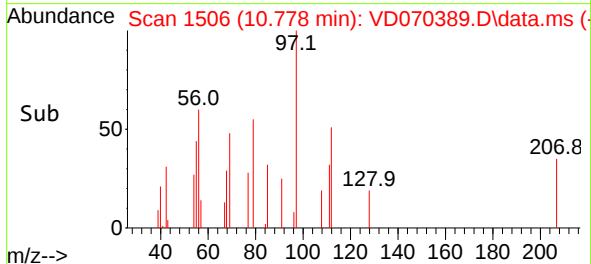
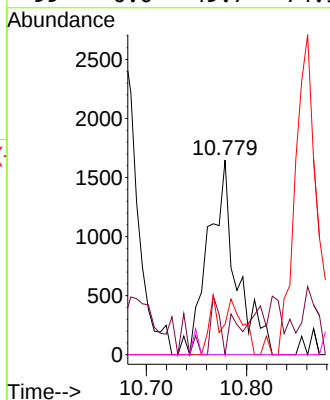


#55
1,1,2-Trichloroethane
Concen: 5.494 ug/l
RT: 10.778 min Scan# 1506
Delta R.T. -0.018 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Instrument :
MSVOA_D
ClientSampled :
RT4213RE

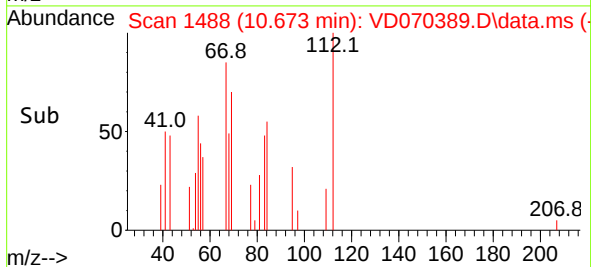
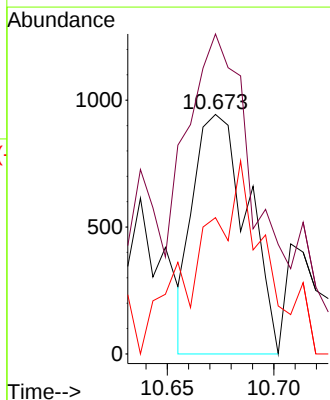
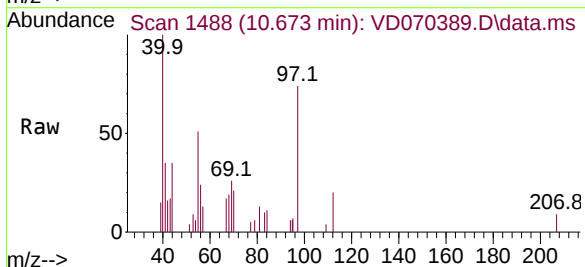


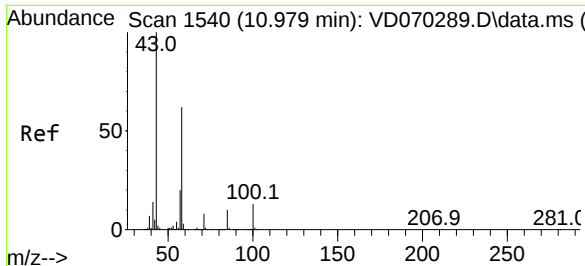
Tgt Ion:	97	Resp:	3209
Ion	Ratio	Lower	Upper
97	100		
83	0.0	65.3	97.9#
85	15.7	44.8	67.2#
99	0.0	49.7	74.5#



#56
Ethyl methacrylate
Concen: 2.619 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.017 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion:	69	Resp:	1670
Ion	Ratio	Lower	Upper
69	100		
41	157.8	43.6	65.4#
39	105.0	18.6	28.0#

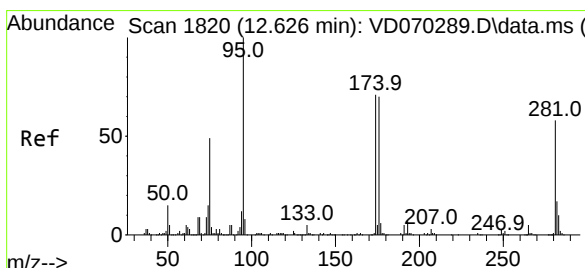
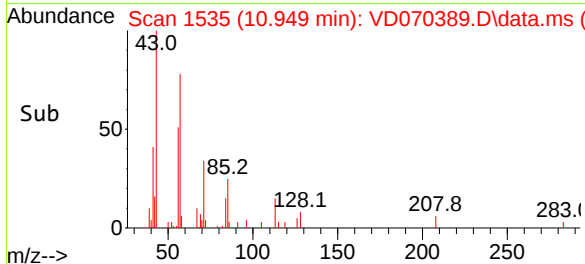
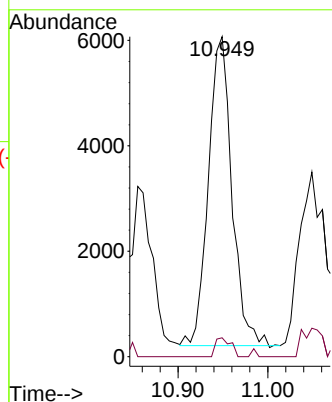
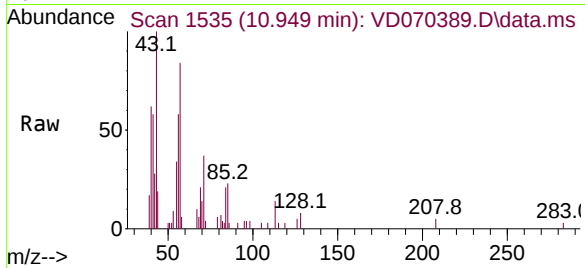




#59
2-Hexanone
Concen: 41.701 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.030 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

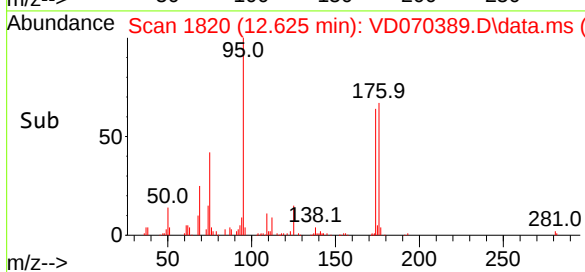
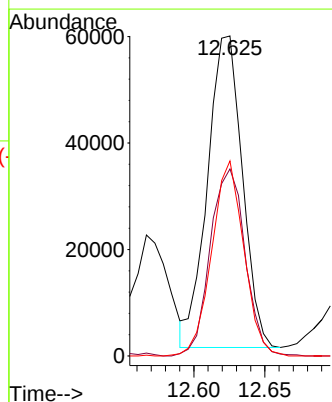
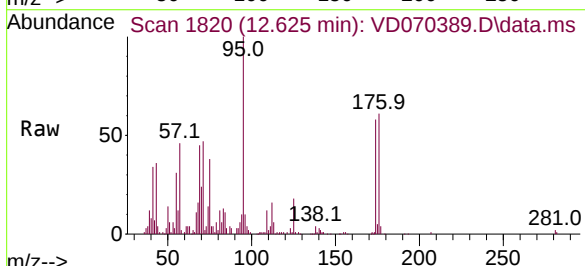
Instrument :
MSVOA_D
ClientSampleID :
RT4213RE

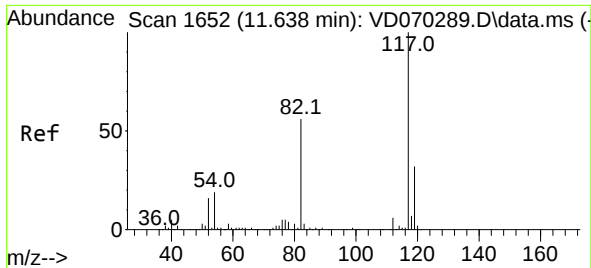
Tgt Ion: 43 Resp: 10676
Ion Ratio Lower Upper
43 100
58 4.0 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 110.181 ug/l
RT: 12.625 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 95 Resp: 99856
Ion Ratio Lower Upper
95 100
174 60.3 0.0 140.6
176 57.9 0.0 137.4

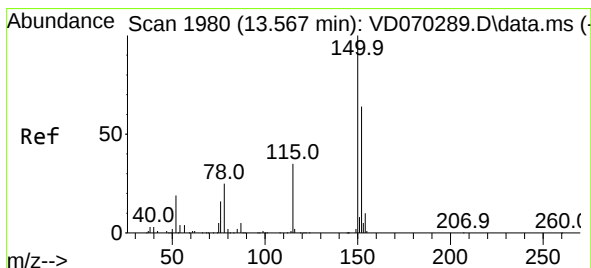
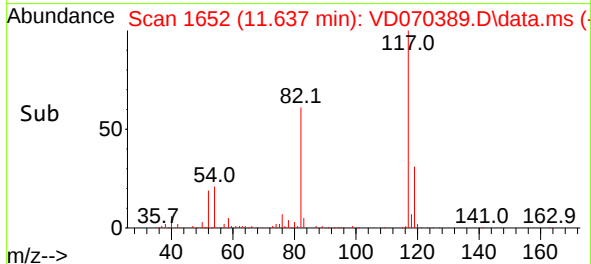
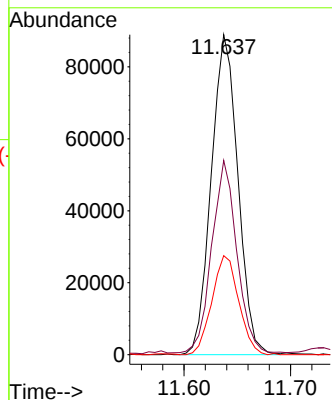
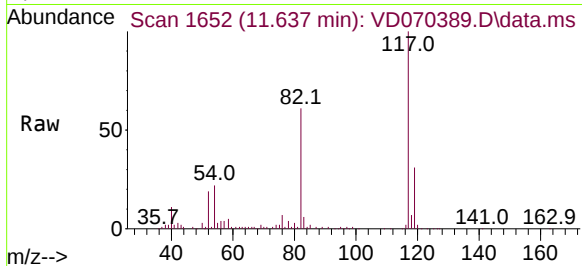




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

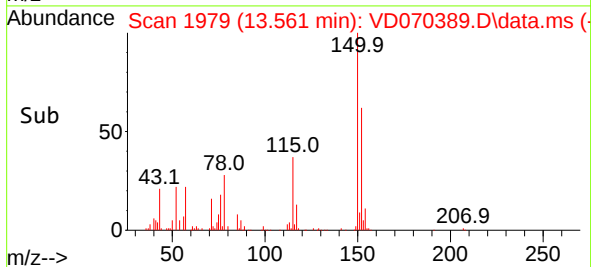
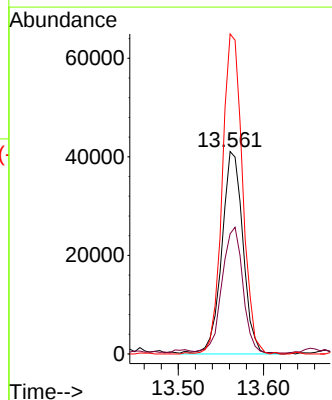
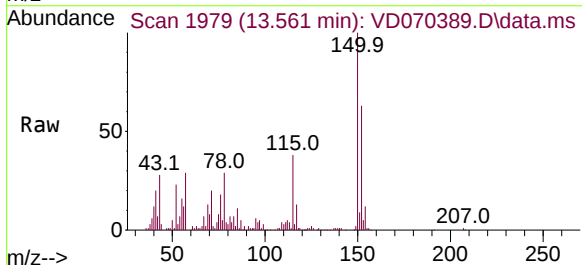
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

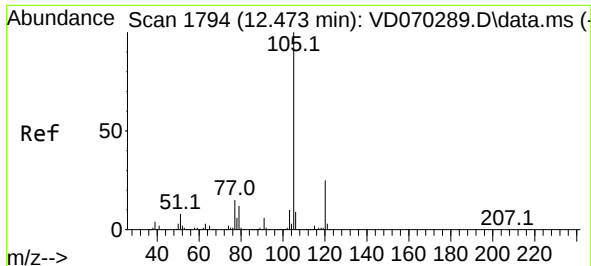
Tgt Ion:	117	Resp:	154561
Ion Ratio	Lower	Upper	
117	100		
82	60.1	45.0	67.4
119	30.9	25.2	37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion:	152	Resp:	70976
Ion Ratio	Lower	Upper	
152	100		
115	61.2	32.1	96.3
150	150.9	0.0	350.6

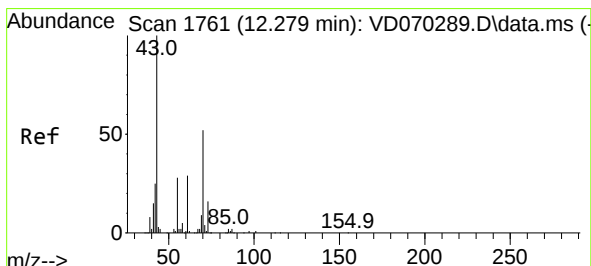
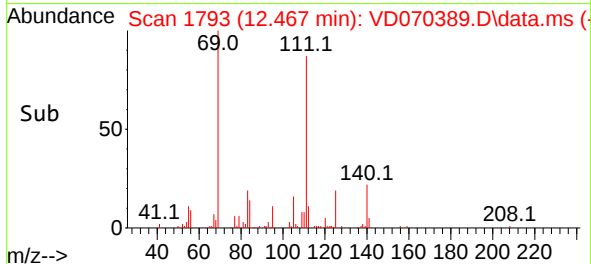
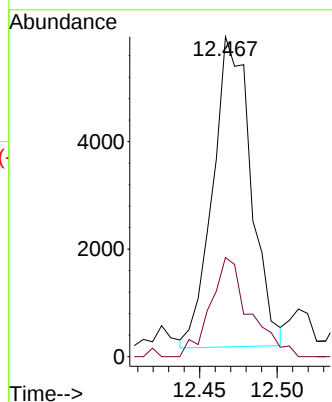
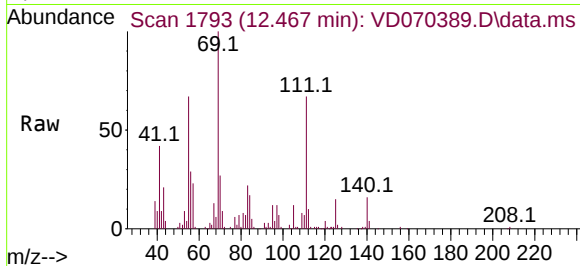




#73
Isopropylbenzene
Concen: 1.987 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

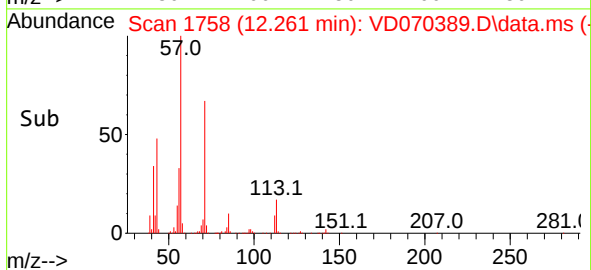
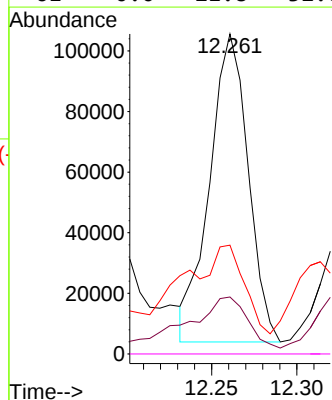
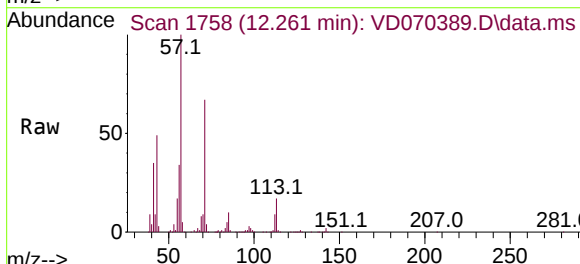
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

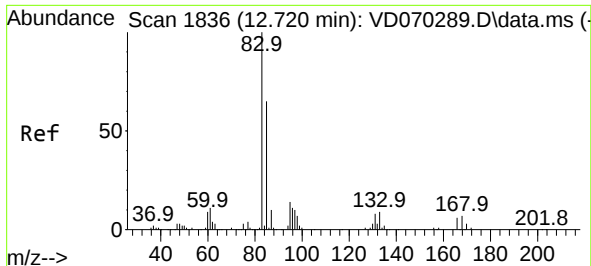
Tgt Ion:105 Resp: 9889
Ion Ratio Lower Upper
105 100
120 32.6 13.0 38.9



#74
N-ethyl acetate
Concen: 147.253 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 43 Resp: 159698
Ion Ratio Lower Upper
43 100
70 25.3 41.4 62.0#
55 43.7 22.8 34.2#
61 0.0 21.8 32.6#

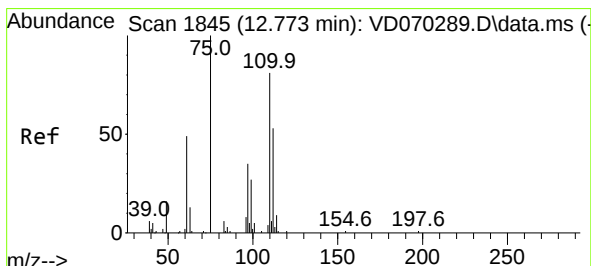
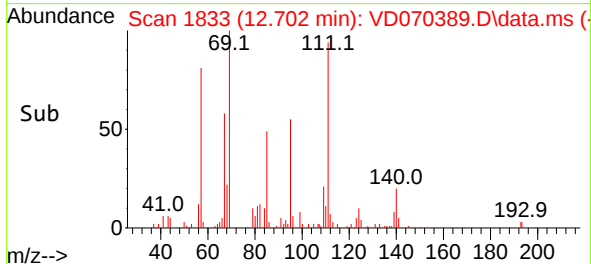
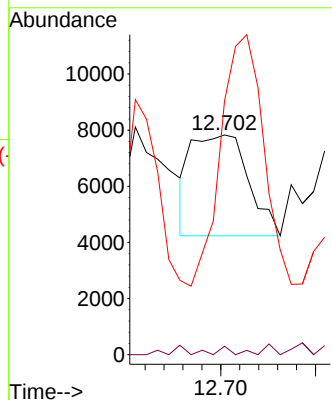
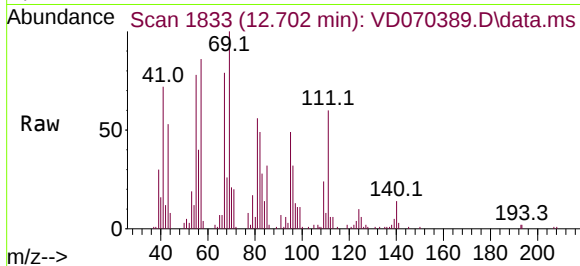




#75
1,1,2,2-Tetrachloroethane
Concen: 7.072 ug/l
RT: 12.702 min Scan# 1833
Delta R.T. -0.018 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

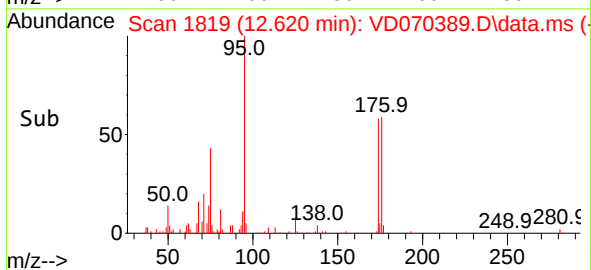
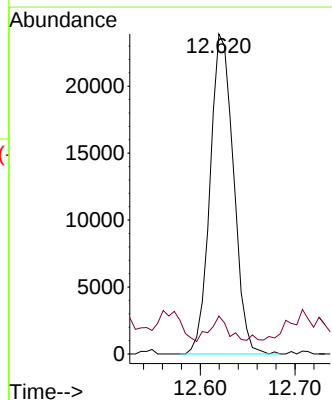
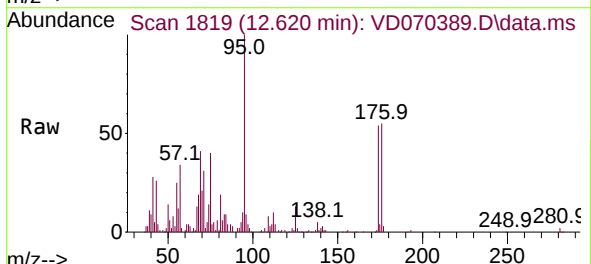
Instrument :
MSVOA_D
ClientSampled :
RT4213RE

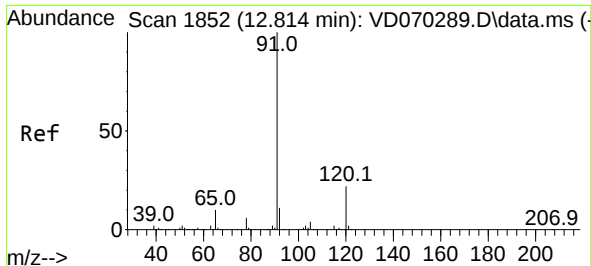
Tgt Ion: 83 Resp: 7539
Ion Ratio Lower Upper
83 100
131 1.4 4.8 14.4#
85 0.0 32.1 96.3#



#76
1,2,3-Trichloropropane
Concen: 57.312 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 75 Resp: 41146
Ion Ratio Lower Upper
75 100
77 6.0 174.9 524.7#

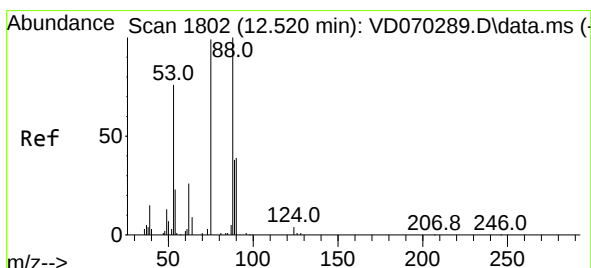
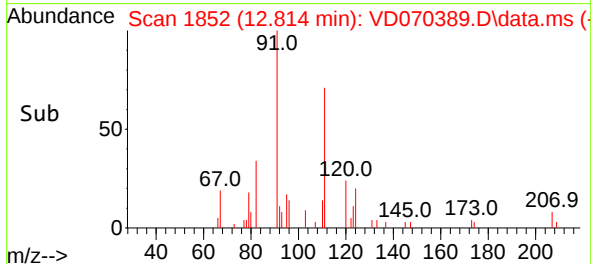
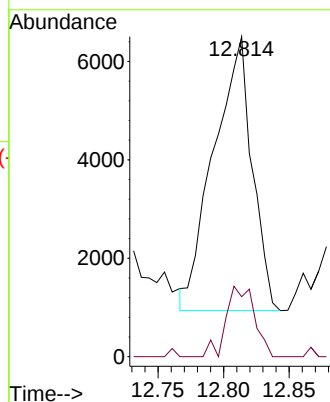
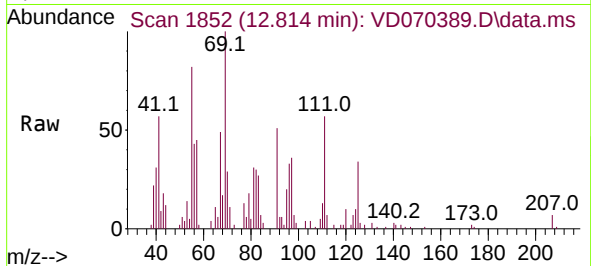




#78
n-propylbenzene
Concen: 1.754 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

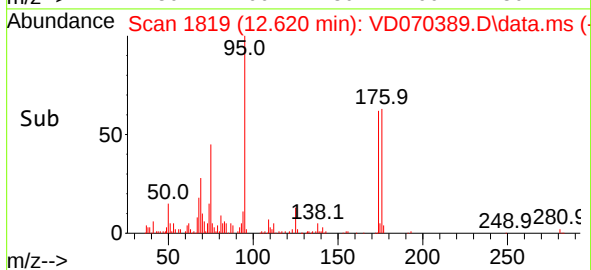
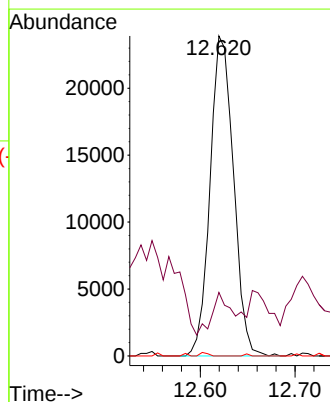
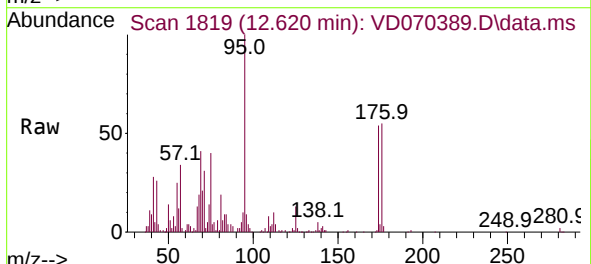
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

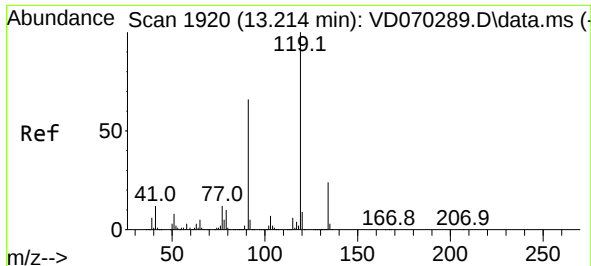
Tgt Ion: 91 Resp: 11330
Ion Ratio Lower Upper
91 100
120 18.9 11.0 33.0



#81
trans-1,4-Dichloro-2-butene
Concen: 143.600 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 75 Resp: 41146
Ion Ratio Lower Upper
75 100
53 10.2 64.2 96.2#
89 0.4 35.6 53.4#

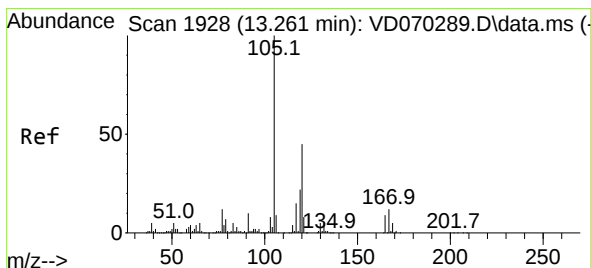
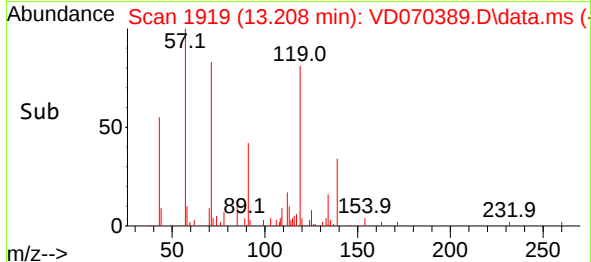
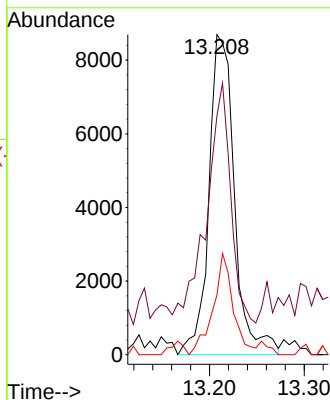
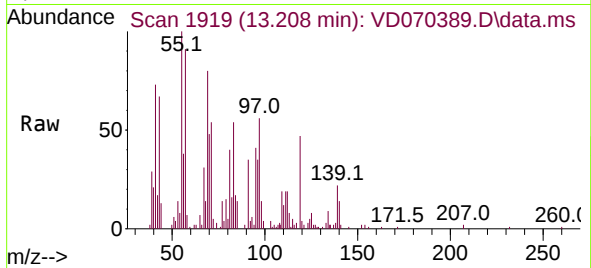




#83
tert-Butylbenzene
Concen: 4.729 ug/l
RT: 13.208 min Scan# 1919
Delta R.T. -0.006 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

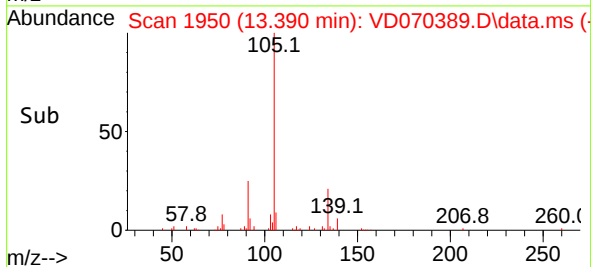
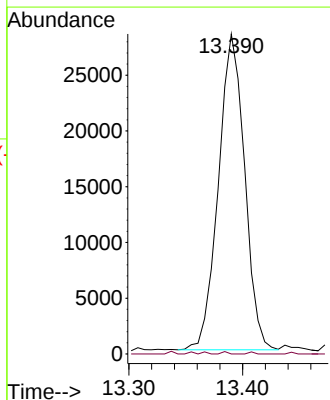
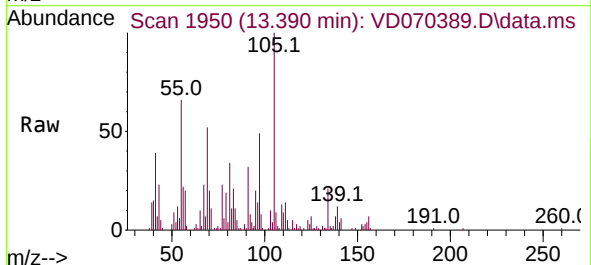
Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

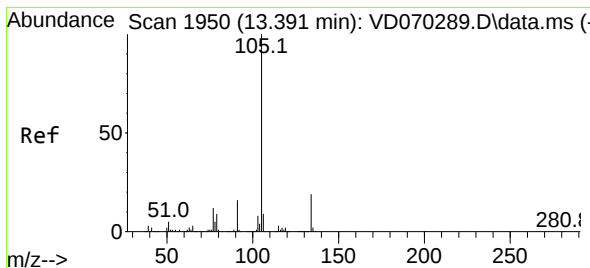
Tgt Ion:119 Resp: 16294
Ion Ratio Lower Upper
119 100
91 70.6 33.7 101.0
134 24.8 13.2 39.5



#84
1,2,4-Trimethylbenzene
Concen: 10.737 ug/l
RT: 13.390 min Scan# 1950
Delta R.T. 0.129 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion:105 Resp: 45419
Ion Ratio Lower Upper
105 100
120 0.2 22.3 66.8#

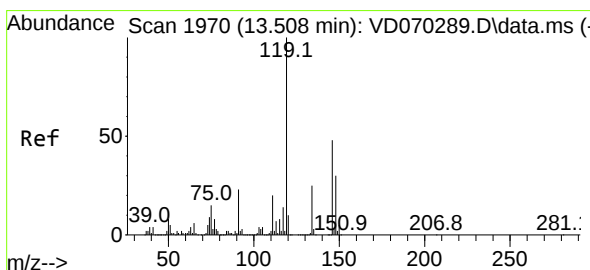
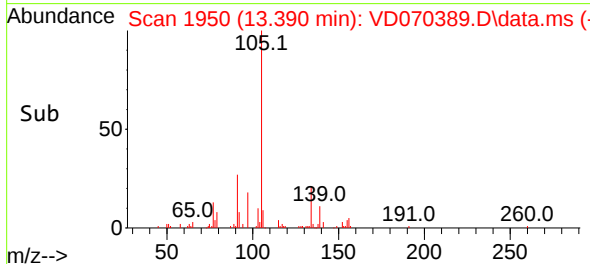
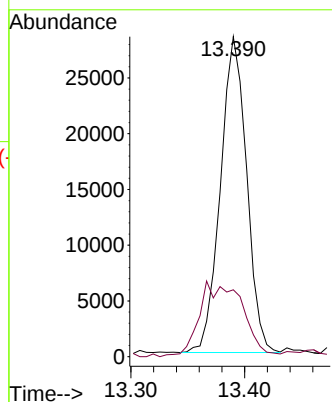
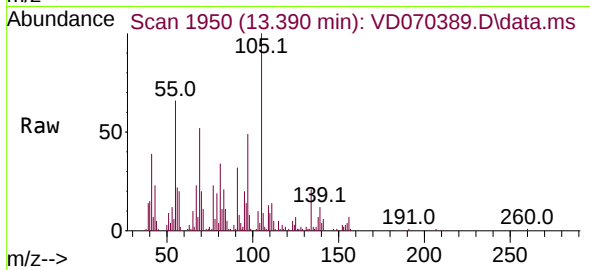




#85
 sec-Butylbenzene
 Concen: 8.293 ug/l
 RT: 13.390 min Scan# 1950
 Delta R.T. -0.000 min
 Lab File: VD070389.D
 Acq: 20 Sep 2021 17:40

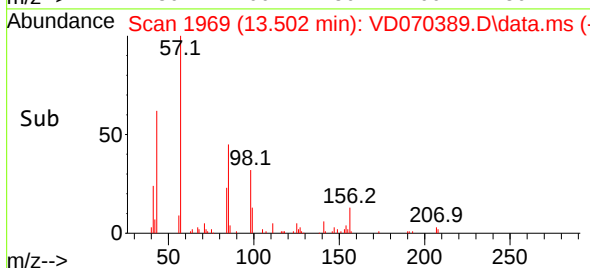
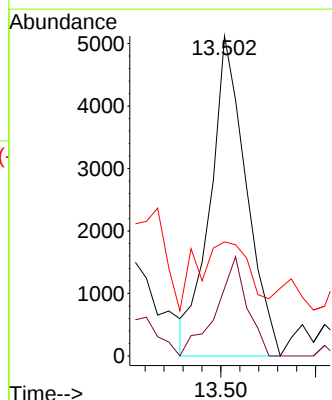
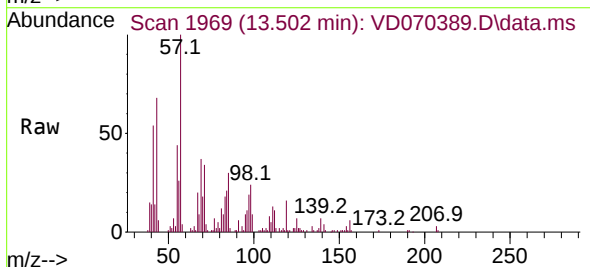
Instrument :
 MSVOA_D
 ClientSampleId :
 RT4213RE

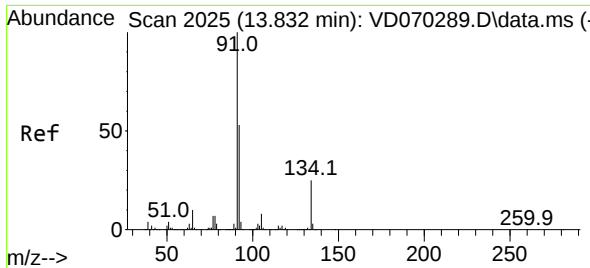
Tgt Ion:105 Resp: 45419
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#86
 p-Isopropyltoluene
 Concen: 1.530 ug/l
 RT: 13.502 min Scan# 1969
 Delta R.T. -0.006 min
 Lab File: VD070389.D
 Acq: 20 Sep 2021 17:40

Tgt Ion:119 Resp: 6731
 Ion Ratio Lower Upper
 119 100
 134 26.9 12.7 38.0
 91 31.2 11.8 35.3

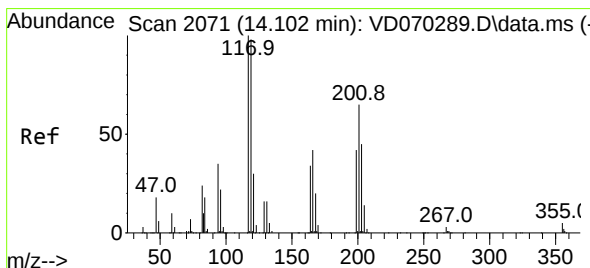
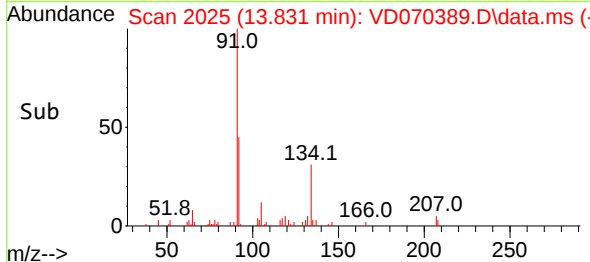
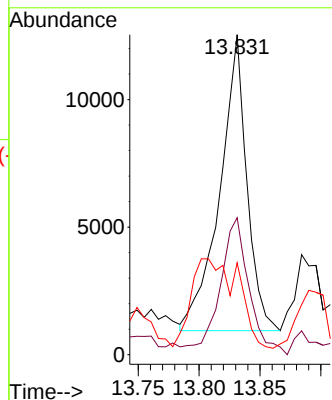
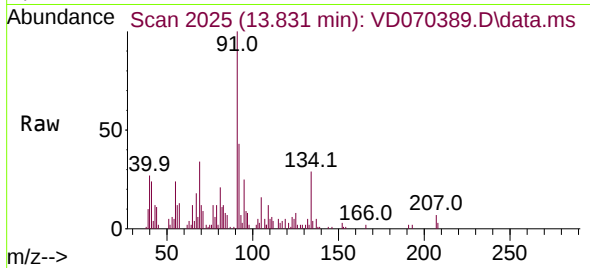




#89
n-Butylbenzene
Concen: 4.093 ug/l
RT: 13.831 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Instrument :
MSVOA_D
ClientSampleId :
RT4213RE

Tgt Ion: 91 Resp: 17957
Ion Ratio Lower Upper
91 100
92 49.3 26.8 80.4
134 0.0 12.1 36.3#



#90
Hexachloroethane
Concen: 3.132 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.005 min
Lab File: VD070389.D
Acq: 20 Sep 2021 17:40

Tgt Ion: 117 Resp: 3155
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.9#

