

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071521\
 Data File : VD069711.D
 Acq On : 15 Jul 2021 17:04
 Operator : VA/SY
 Sample : M3026-04RE
 Misc : 11.67G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 16 02:03:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071321S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 14 06:00:31 2021
 Response via : Initial Calibration

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

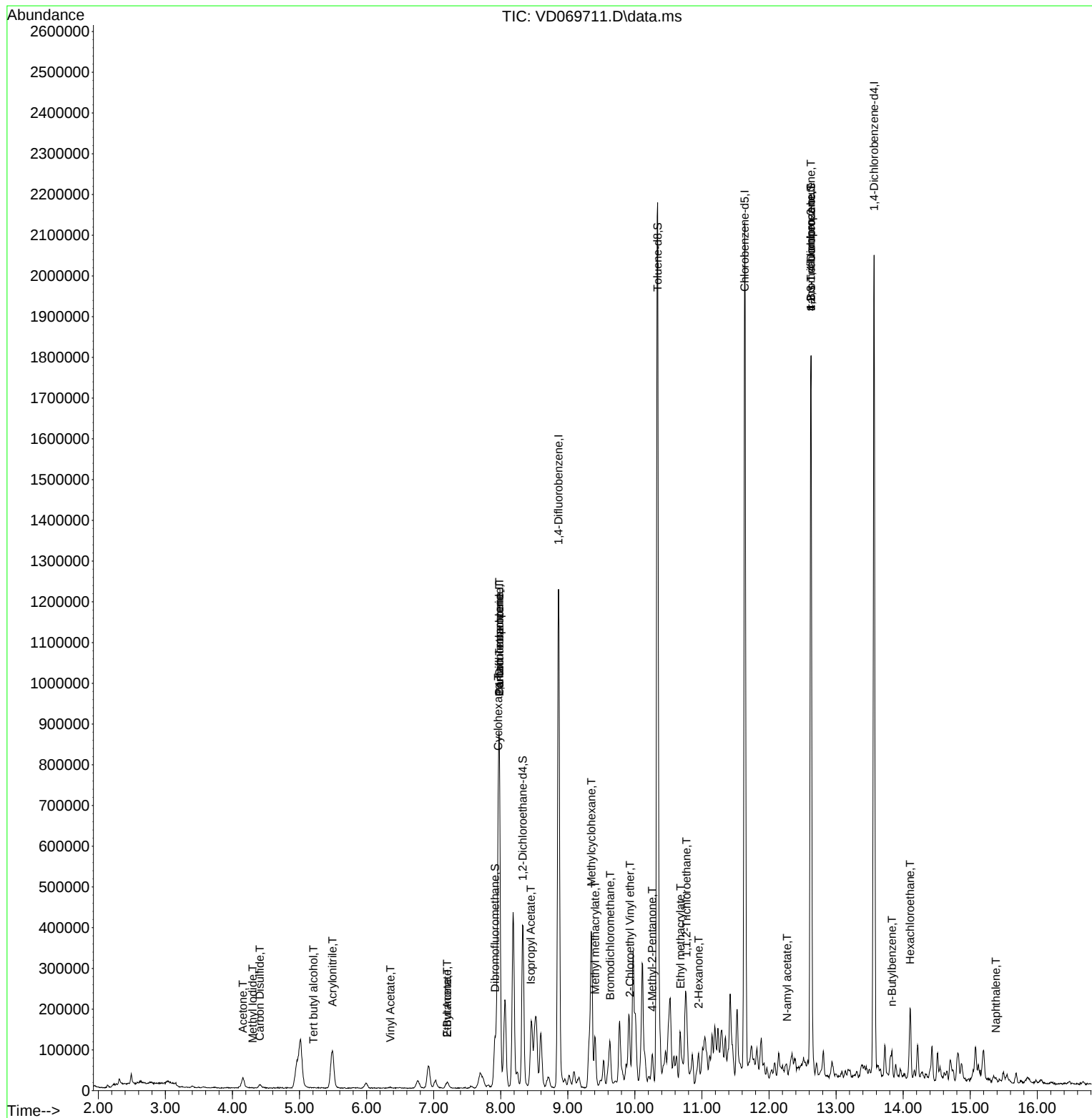
Internal Standards						
1) Pentafluorobenzene	7.979	168	517458	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	994827	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	1160709	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	515705	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	316453	48.978	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	97.960%		
35) Dibromofluoromethane	7.914	113	86657	12.984	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	25.960%		
50) Toluene-d8	10.338	98	1383761	53.368	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	106.740%		
62) 4-Bromofluorobenzene	12.626	95	575878	66.594	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	133.180%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.203	50	1162	Below Cal	#	42
5) Bromomethane	2.744	94	138	Below Cal	#	5
10) Methyl Iodide	4.303	142	704	2.573	ug/l #	63
11) Tert butyl alcohol	5.209	59	1095	1.268	ug/l #	79
15) Acrylonitrile	5.491	53	4700	3.579	ug/l #	36
16) Acetone	4.156	43	39979	39.899	ug/l	99
17) Carbon Disulfide	4.409	76	17038	1.284	ug/l	98
18) Methyl Acetate	4.932	43	11440	Below Cal	#	50
20) Methylene Chloride	4.962	84	36428	Below Cal		97
23) Vinyl Acetate	6.356	43	262	15.449	ug/l #	72
25) 2-Butanone	7.203	43	9361	6.130	ug/l #	62
31) Cyclohexane	7.962	56	92312	8.736	ug/l #	55
36) 1,1-Dichloropropene	7.979	75	47398	4.618	ug/l #	55
37) Ethyl Acetate	7.203	43	9361	2.411	ug/l #	74
38) Carbon Tetrachloride	7.979	117	57411	6.109	ug/l #	18
39) Methylcyclohexane	9.350	83	128361	12.018	ug/l	92
43) Isopropyl Acetate	8.450	43	32159	4.523	ug/l #	47
47) Bromodichloromethane	9.632	83	19658	1.953	ug/l #	28
48) Methyl methacrylate	9.409	41	20005	6.404	ug/l #	34
51) 4-Methyl-2-Pentanone	10.256	43	7502	2.038	ug/l #	64
55) 1,1,2-Trichloroethane	10.767	97	39813	7.495	ug/l #	21
56) Ethyl methacrylate	10.679	69	12055	3.382	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.926	63	657	9.569	ug/l #	65
59) 2-Hexanone	10.950	43	23138	9.429	ug/l #	29
74) N-amyl acetate	12.267	43	8951	1.122	ug/l #	69
76) 1,2,3-Trichloropropane	12.626	75	284658	56.819	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.626	75	284658	152.698	ug/l #	14
89) n-Butylbenzene	13.832	91	37123	1.153	ug/l #	81
90) Hexachloroethane	14.102	117	11945	1.806	ug/l #	18
95) Naphthalene	15.385	128	5107	2.504	ug/l	95

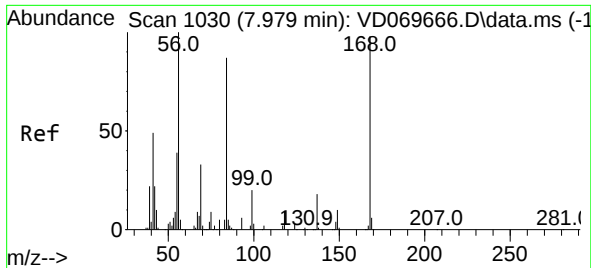
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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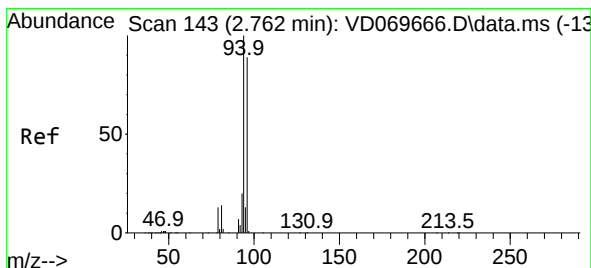
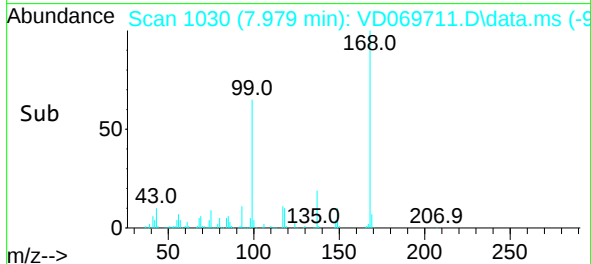
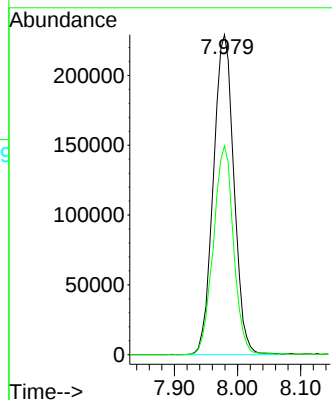
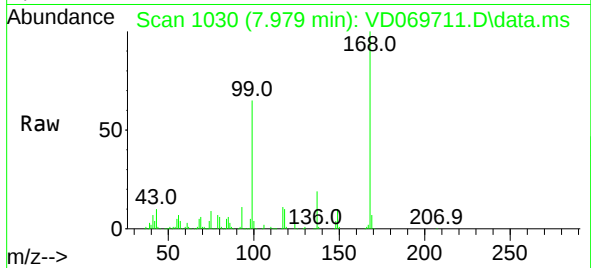




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

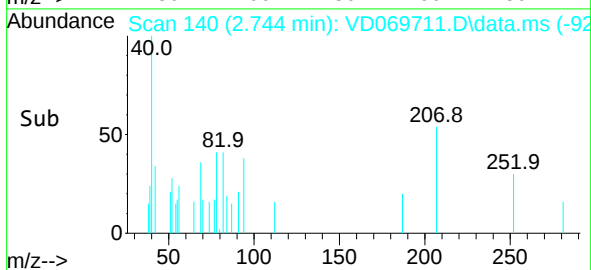
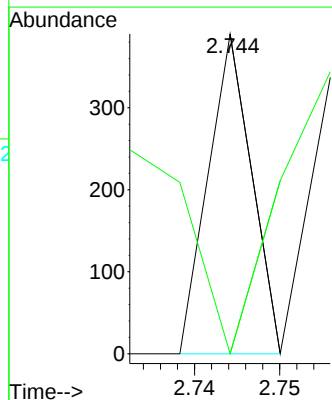
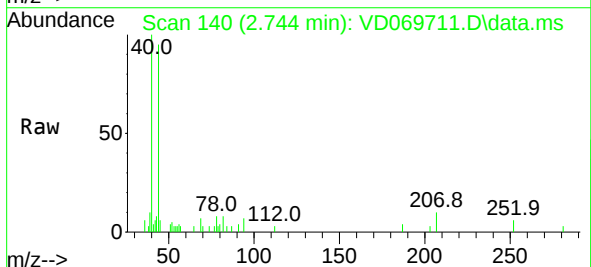
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MSVOA_D
ClientSampleId :

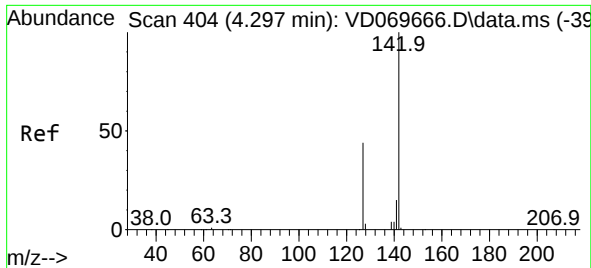
Tgt Ion:168 Resp: 517458
Ion Ratio Lower Upper
168 100
99 65.2 51.8 77.6



#5
Bromomethane
Concen: Below Cal
RT: 2.744 min Scan# 140
Delta R.T. -0.018 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

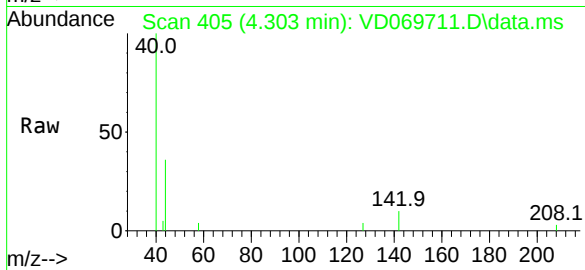
Tgt Ion: 94 Resp: 138
Ion Ratio Lower Upper
94 100
96 0.0 71.2 106.8#



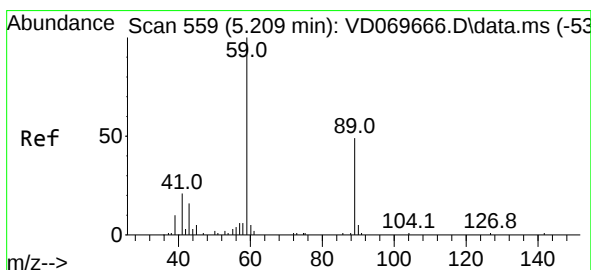
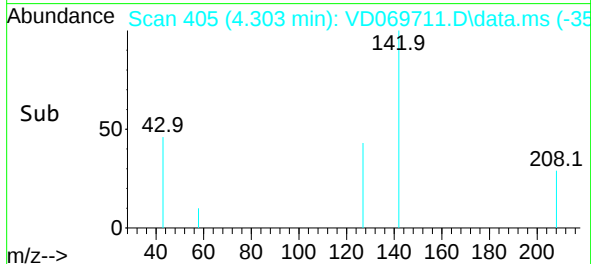
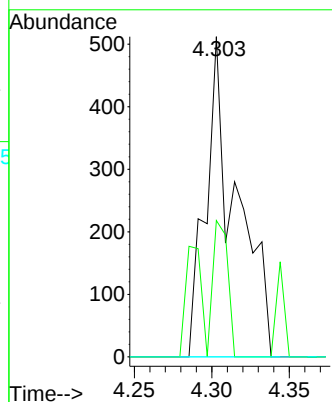


#10
Methyl Iodide
Concen: 2.573 ug/l
RT: 4.303 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Instrument :
MSVOA_D
ClientSampleId :

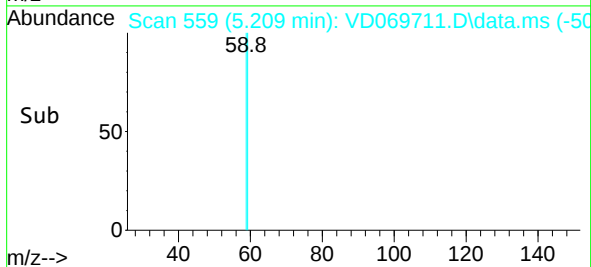
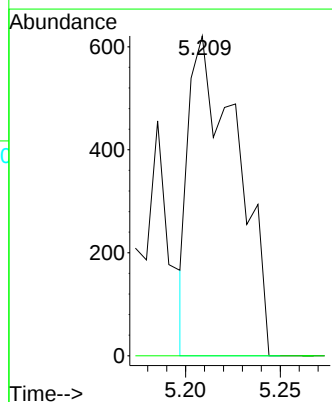
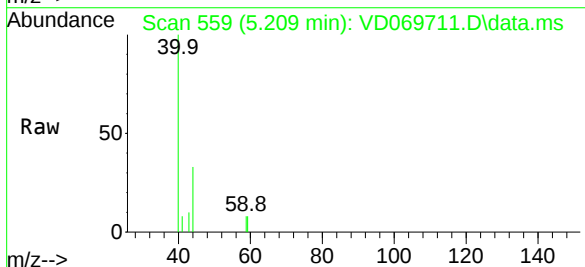


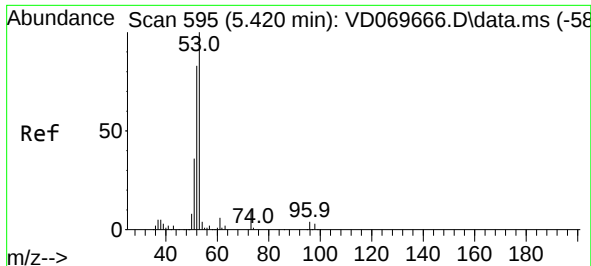
Tgt Ion:142 Resp: 704
Ion Ratio Lower Upper
142 100
127 20.7 36.1 54.1#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.268 ug/l
RT: 5.209 min Scan# 559
Delta R.T. -0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion: 59 Resp: 1095
Ion Ratio Lower Upper
59 100
57 0.0 5.7 8.5#

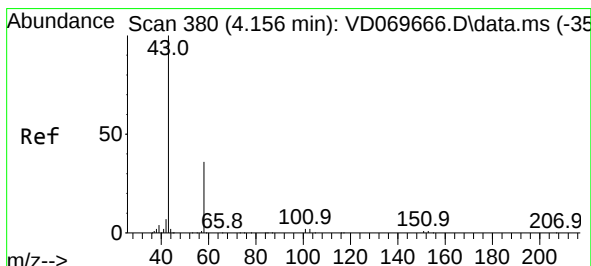
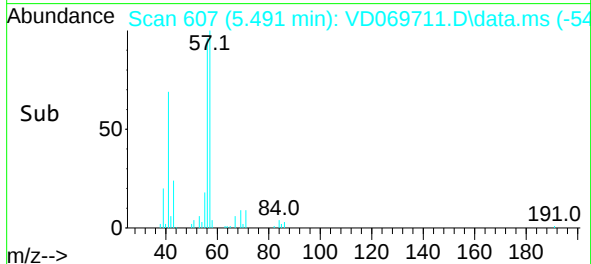
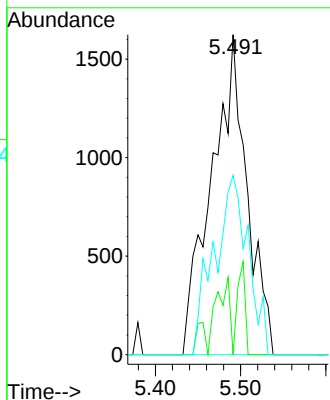
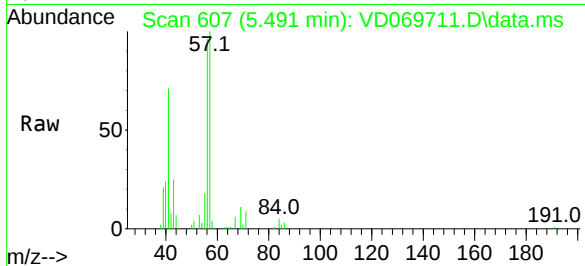




#15
Acrylonitrile
Concen: 3.579 ug/l
RT: 5.491 min Scan# 607
Delta R.T. 0.071 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

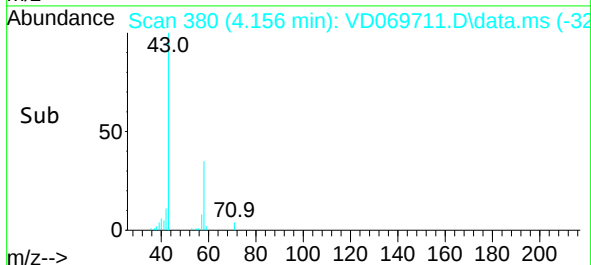
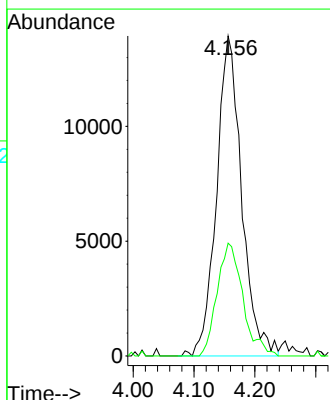
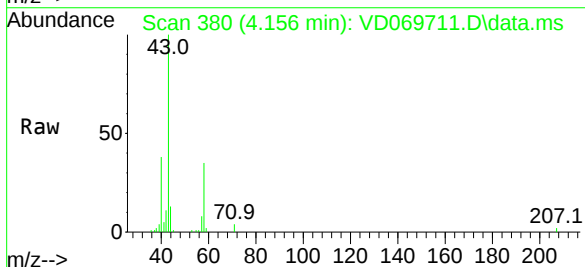
Instrument :
MSVOA_D
ClientSampled :

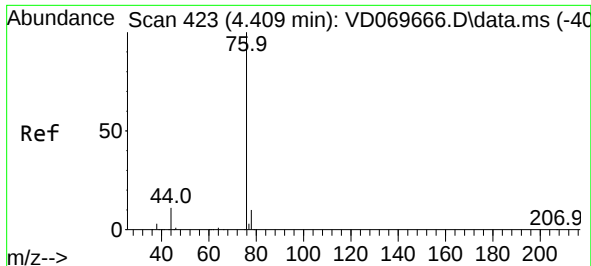
Tgt Ion: 53 Resp: 4700
Ion Ratio Lower Upper
53 100
52 11.5 64.8 97.2#
51 53.8 28.2 42.2#



#16
Acetone
Concen: 39.899 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

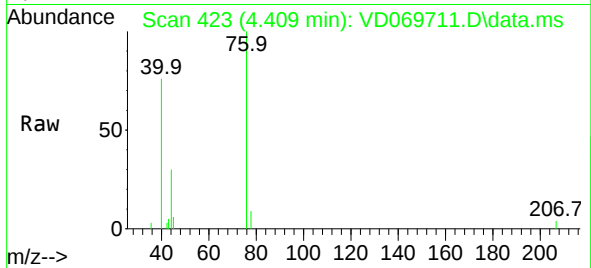
Tgt Ion: 43 Resp: 39979
Ion Ratio Lower Upper
43 100
58 35.3 28.6 42.8



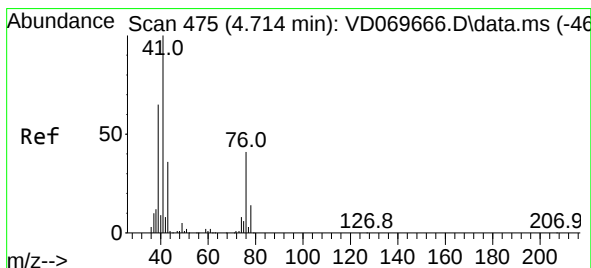
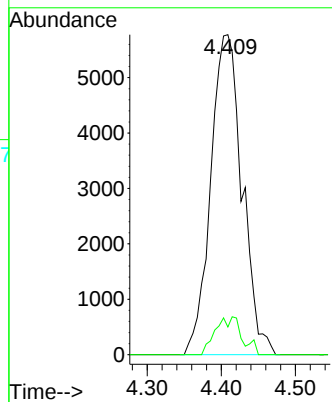
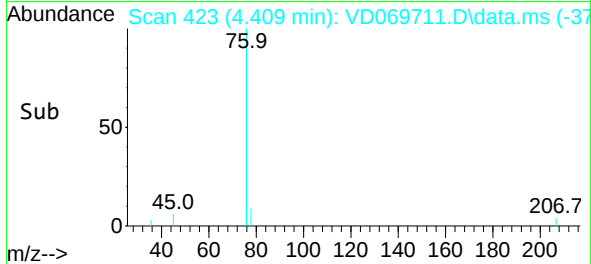


#17
Carbon Disulfide
Concen: 1.284 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

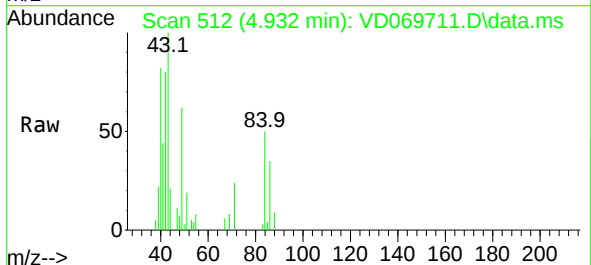
Instrument :
MSVOA_D
ClientSampled :



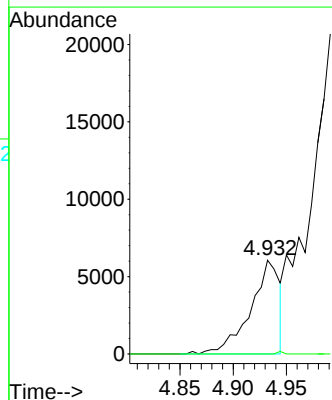
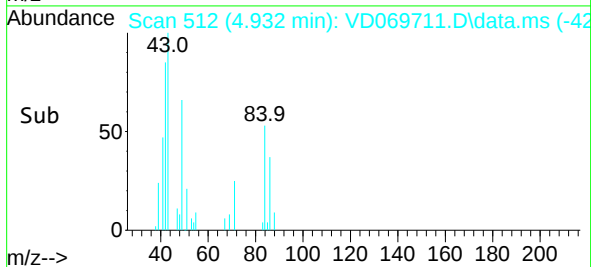
Tgt Ion: 76 Resp: 17038
Ion Ratio Lower Upper
76 100
78 8.7 7.6 11.4

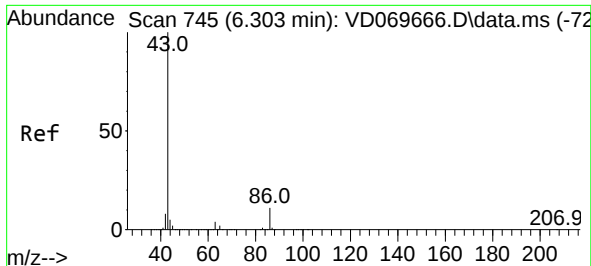


#18
Methyl Acetate
Concen: Below Cal
RT: 4.932 min Scan# 512
Delta R.T. 0.218 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04



Tgt Ion: 43 Resp: 11440
Ion Ratio Lower Upper
43 100
74 0.5 20.6 30.8#

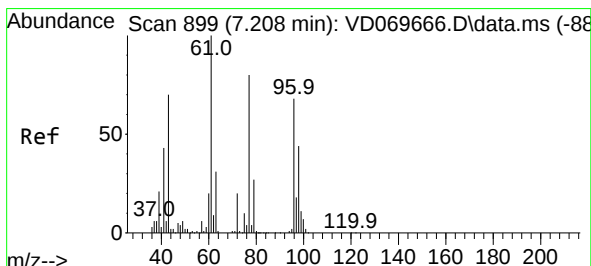
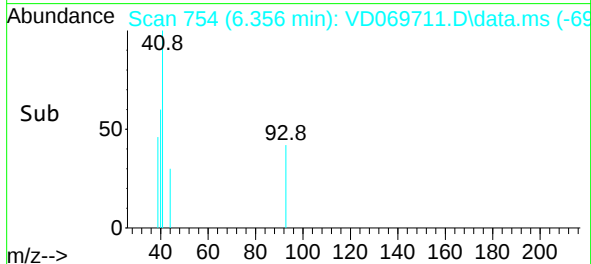
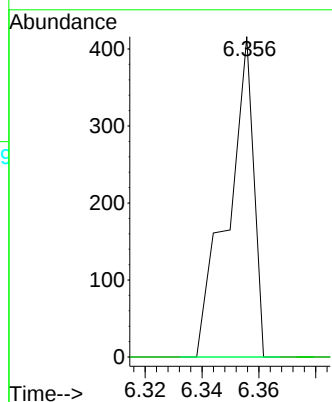
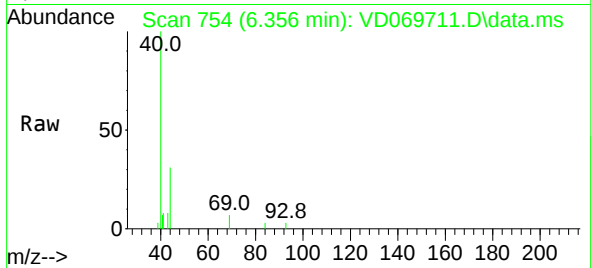




#23
 Vinyl Acetate
 Concen: 15.449 ug/l
 RT: 6.356 min Scan# 754
 Delta R.T. 0.053 min
 Lab File: VD069711.D
 Acq: 15 Jul 2021 17:04

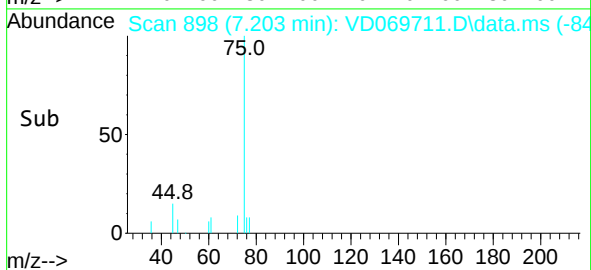
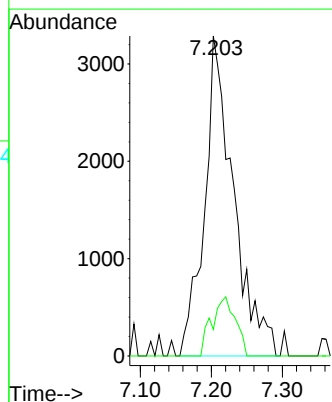
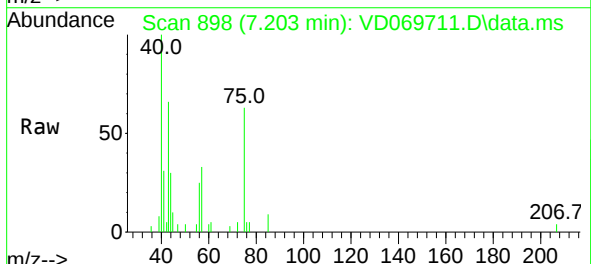
Instrument :
 MSVOA_D
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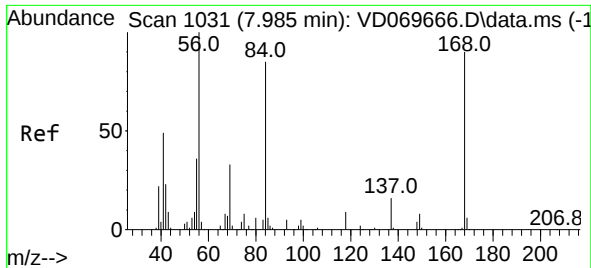
Tgt Ion: 43 Resp: 262
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 12.8#



#25
 2-Butanone
 Concen: 6.130 ug/l
 RT: 7.203 min Scan# 898
 Delta R.T. -0.005 min
 Lab File: VD069711.D
 Acq: 15 Jul 2021 17:04

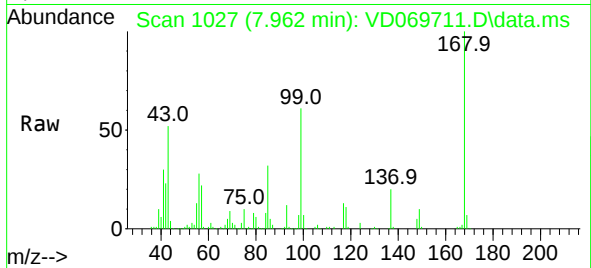
Tgt Ion: 43 Resp: 9361
 Ion Ratio Lower Upper
 43 100
 72 8.3 22.6 33.8#



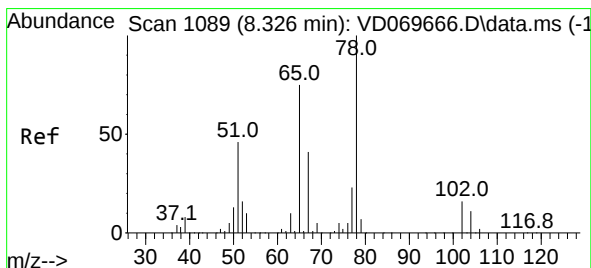
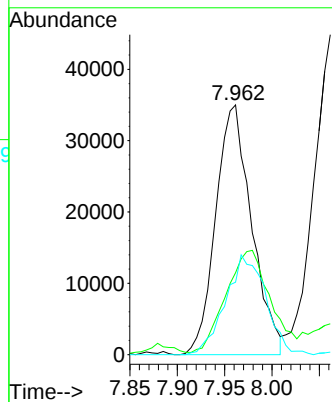
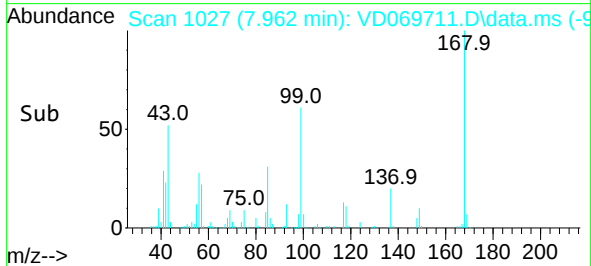


#31
Cyclohexane
Concen: 8.736 ug/l
RT: 7.962 min Scan# 1027
Delta R.T. -0.023 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

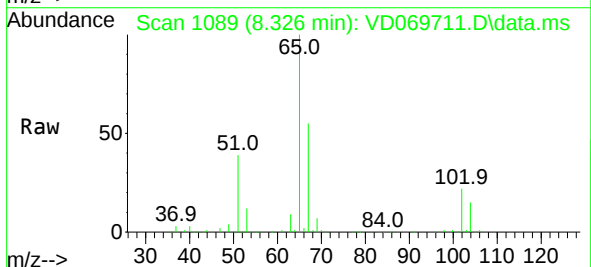
Instrument :
MSVOA_D
ClientSampleId :



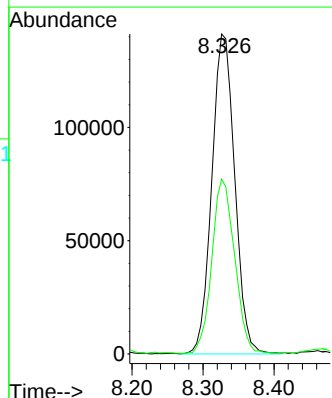
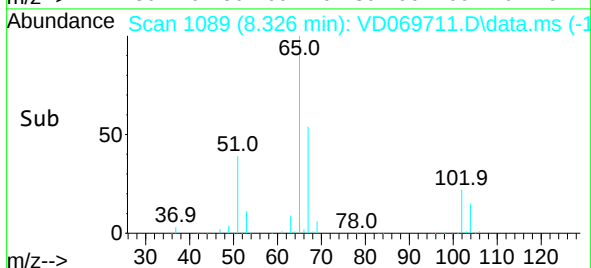
Tgt Ion: 56 Resp: 92312
Ion Ratio Lower Upper
56 100
69 31.2 26.6 39.8
84 29.0 68.2 102.2#

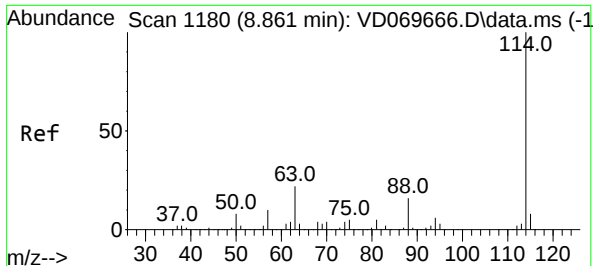


#33
1,2-Dichloroethane-d4
Concen: 48.978 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04



Tgt Ion: 65 Resp: 316453
Ion Ratio Lower Upper
65 100
67 54.2 0.0 107.2

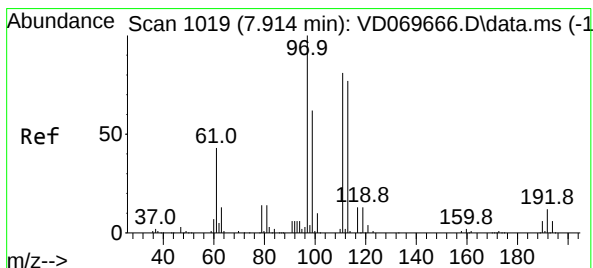
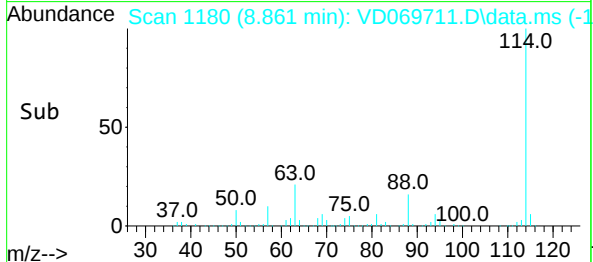
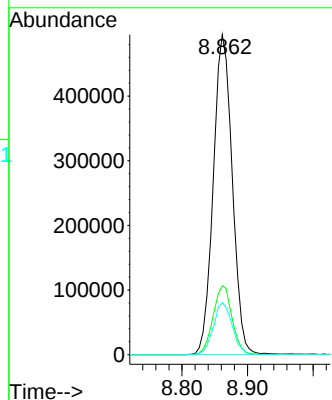
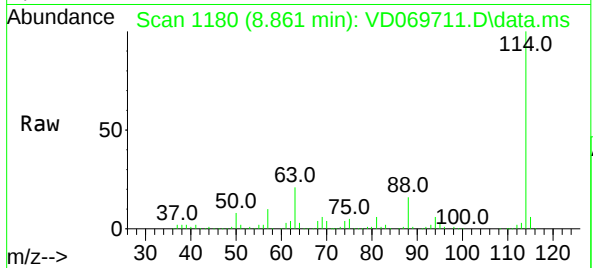




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

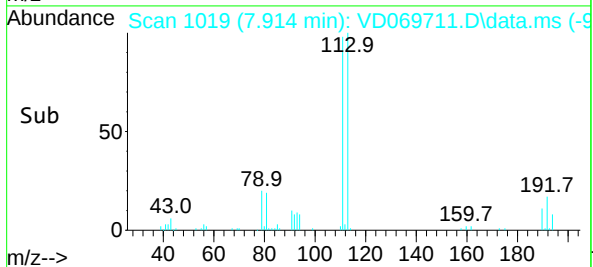
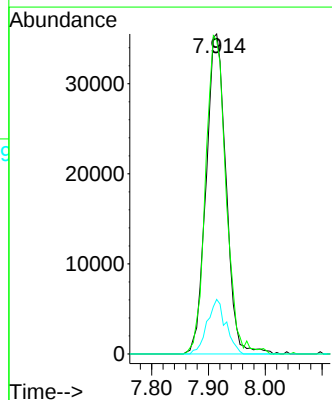
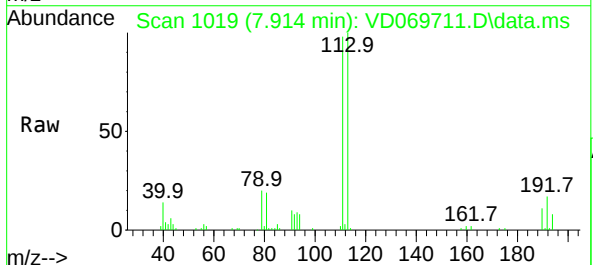
Instrument :
MSVOA_D
ClientSampleId :

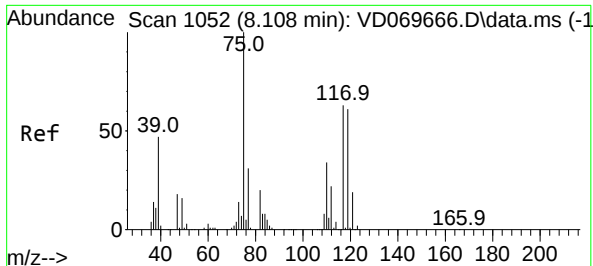
Tgt Ion:114 Resp: 994827
Ion Ratio Lower Upper
114 100
63 21.5 0.0 43.4
88 16.3 0.0 32.0



#35
Dibromofluoromethane
Concen: 12.984 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion:113 Resp: 86657
Ion Ratio Lower Upper
113 100
111 101.5 82.6 123.8
192 16.0 12.7 19.1

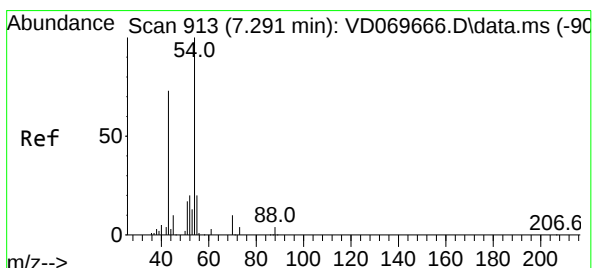
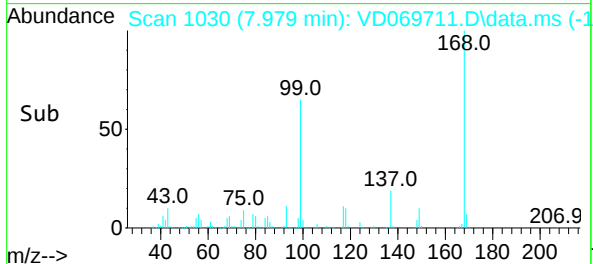
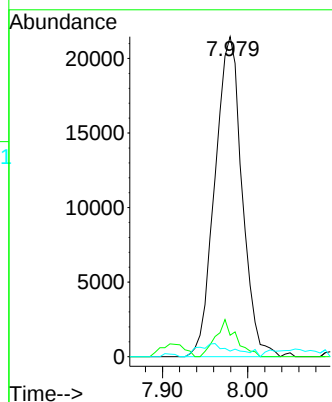
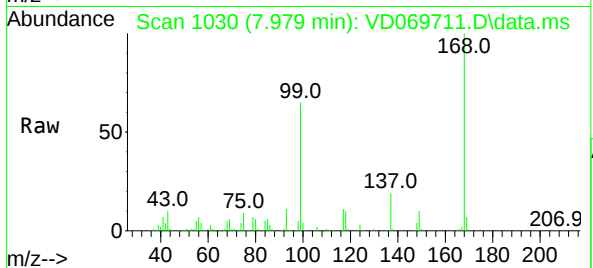




#36
1,1-Dichloropropene
Concen: 4.618 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

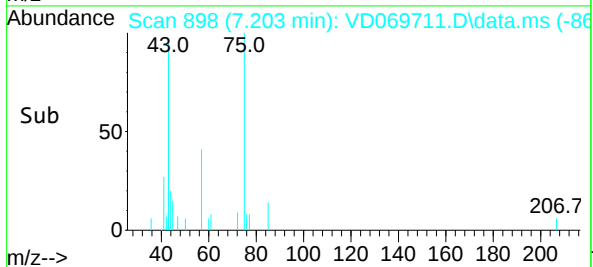
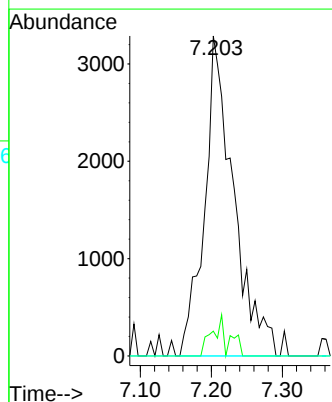
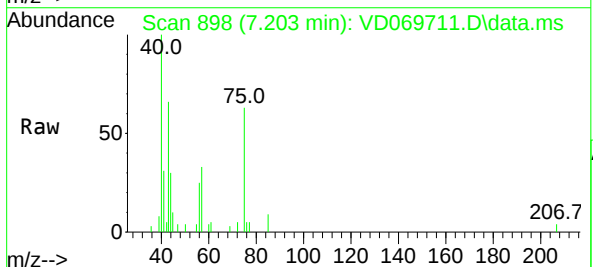
Instrument :
MSVOA_D
ClientSampleId :

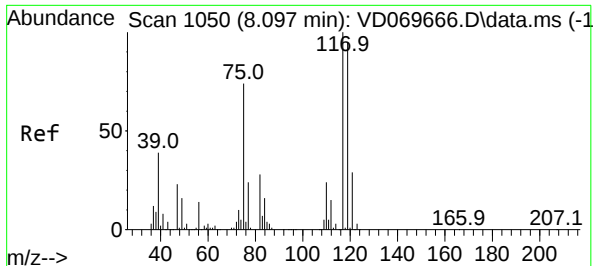
Tgt Ion: 75 Resp: 47398
Ion Ratio Lower Upper
75 100
110 8.7 16.7 50.0#
77 5.4 25.3 37.9#



#37
Ethyl Acetate
Concen: 2.411 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.088 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

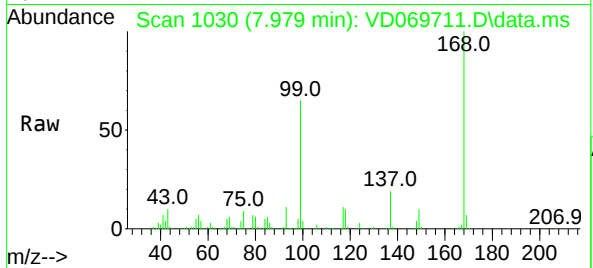
Tgt Ion: 43 Resp: 9361
Ion Ratio Lower Upper
43 100
61 4.8 12.1 18.1#
70 0.0 8.4 12.6#



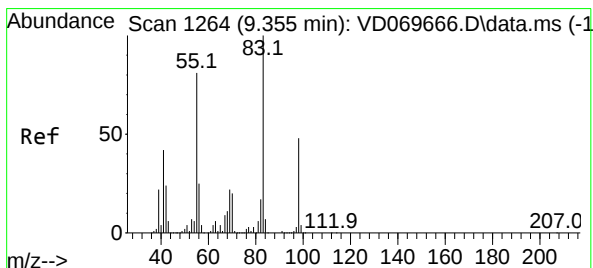
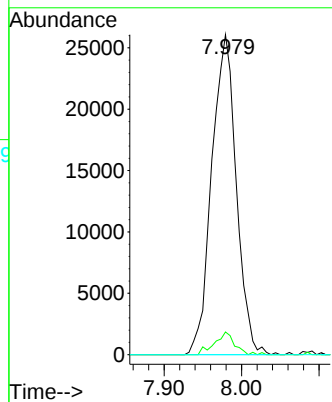
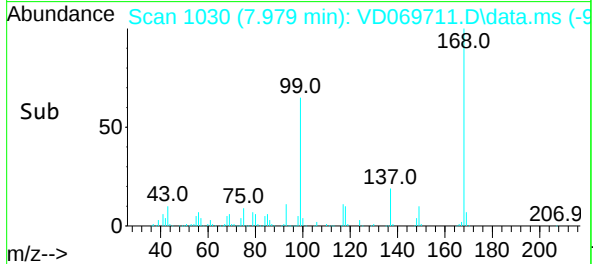


#38
Carbon Tetrachloride
Concen: 6.109 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

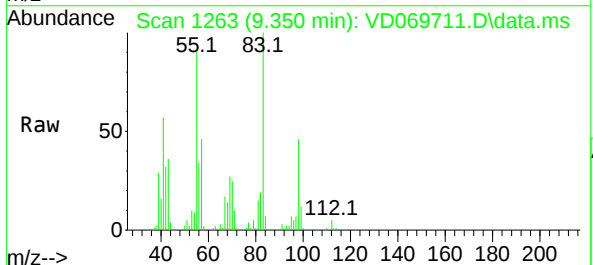
Instrument :
MSVOA_D
ClientSampleId :



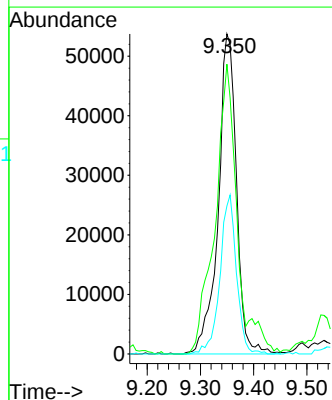
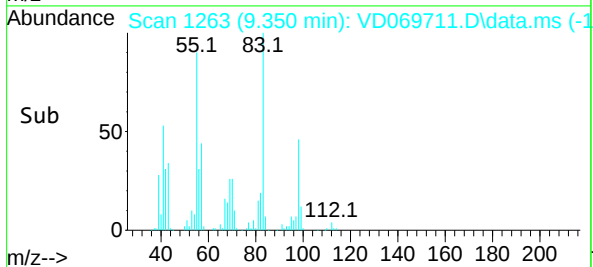
Tgt Ion:117 Resp: 57411
Ion Ratio Lower Upper
117 100
119 7.1 75.7 113.5#
121 0.0 23.0 34.6#

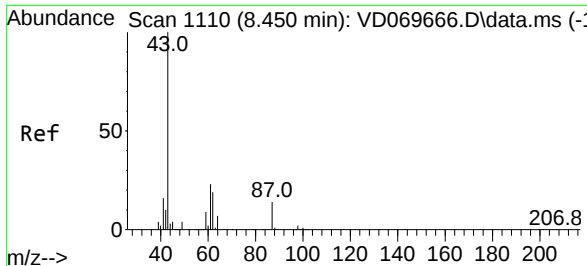


#39
Methylcyclohexane
Concen: 12.018 ug/l
RT: 9.350 min Scan# 1263
Delta R.T. -0.005 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04



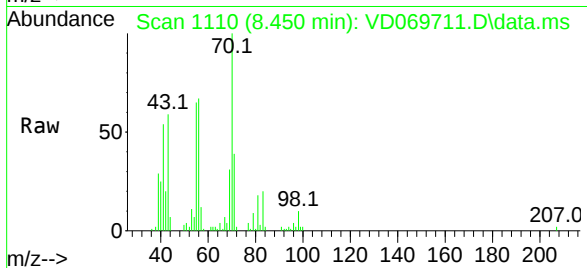
Tgt Ion: 83 Resp: 128361
Ion Ratio Lower Upper
83 100
55 90.6 64.6 97.0
98 46.3 38.4 57.6



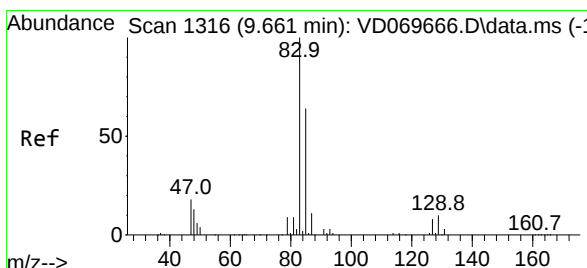
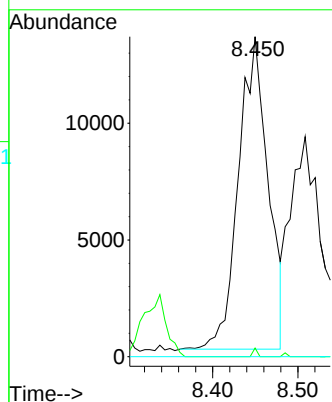
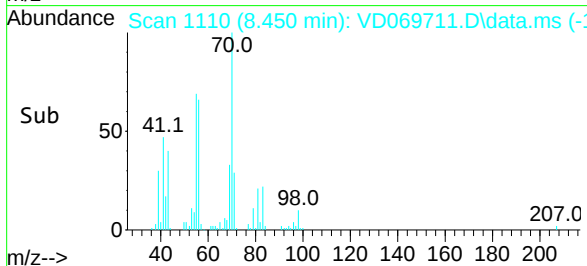


#43
Isopropyl Acetate
Concen: 4.523 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

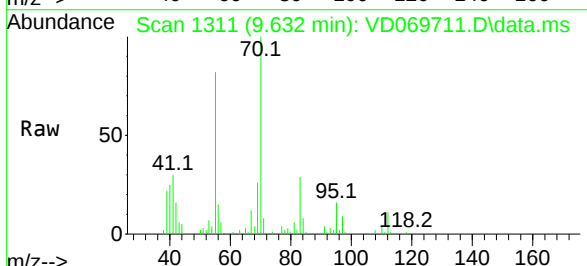
Instrument :
MSVOA_D
ClientSampleId :



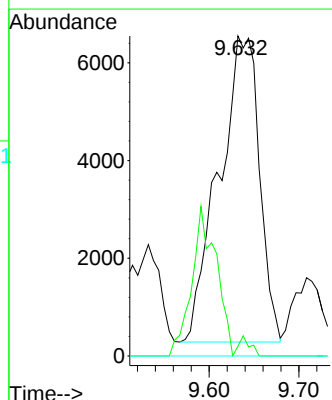
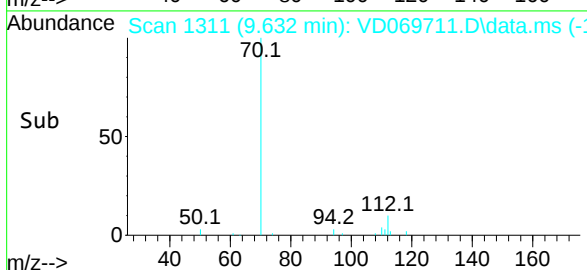
Tgt Ion: 43 Resp: 32159
Ion Ratio Lower Upper
43 100
61 0.0 27.8 41.6#
87 0.0 11.0 16.6#

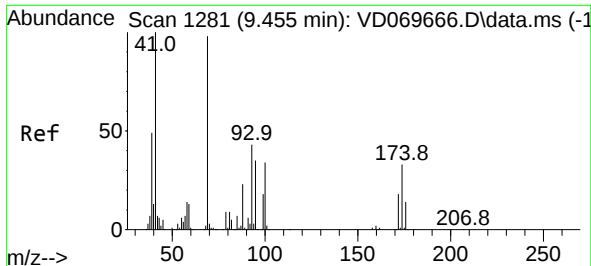


#47
Bromodichloromethane
Concen: 1.953 ug/l
RT: 9.632 min Scan# 1311
Delta R.T. -0.029 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04



Tgt Ion: 83 Resp: 19658
Ion Ratio Lower Upper
83 100
85 3.2 51.4 77.0#
127 0.0 6.7 10.1#

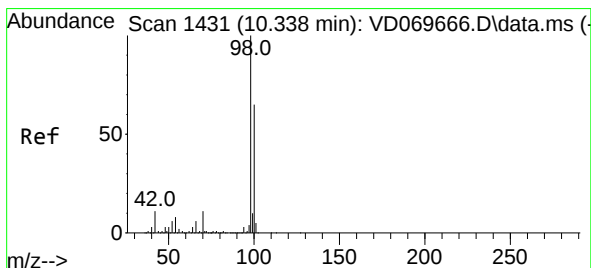
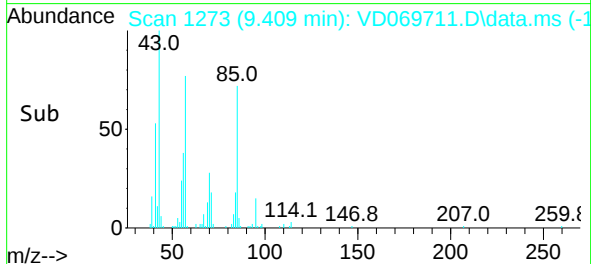
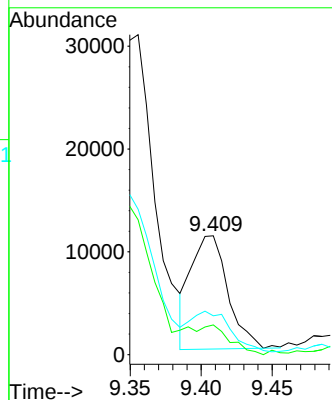
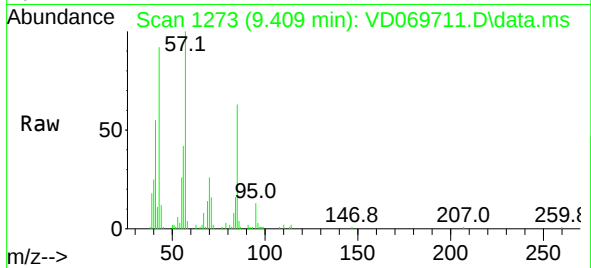




#48
Methyl methacrylate
Concen: 6.404 ug/l
RT: 9.409 min Scan# 1273
Delta R.T. -0.046 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

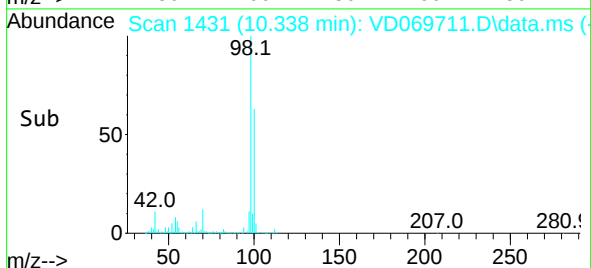
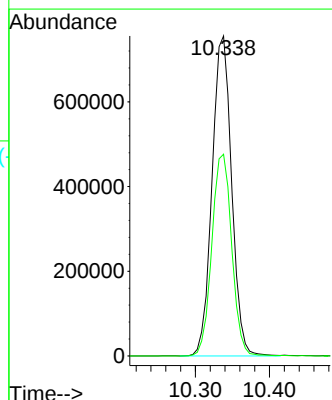
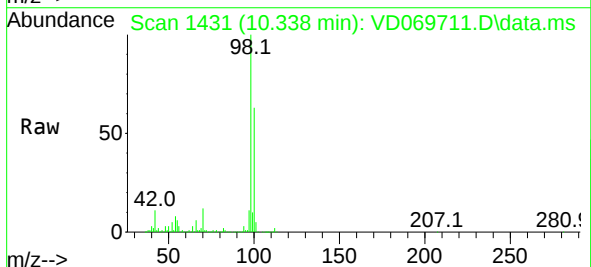
Instrument :
MSVOA_D
ClientSampleId :

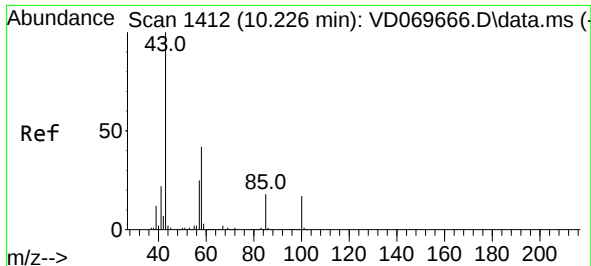
Tgt Ion: 41 Resp: 20005
Ion Ratio Lower Upper
41 100
69 0.0 71.6 107.4#
39 39.9 36.7 55.1



#50
Toluene-d8
Concen: 53.368 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion: 98 Resp: 1383761
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.2

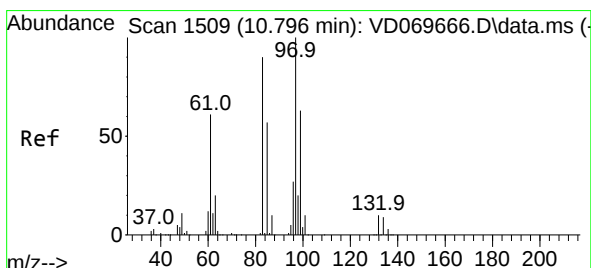
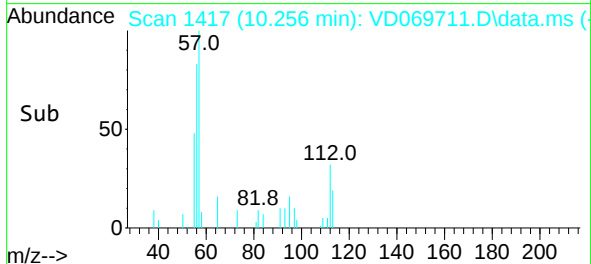
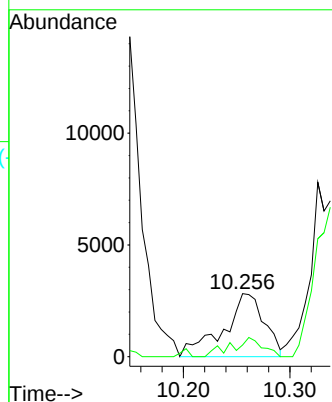
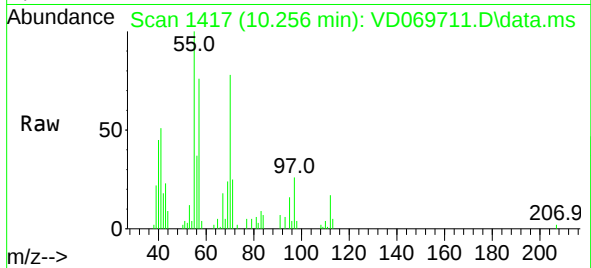




#51
4-Methyl-2-Pentanone
Concen: 2.038 ug/l
RT: 10.256 min Scan# 1417
Delta R.T. 0.030 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

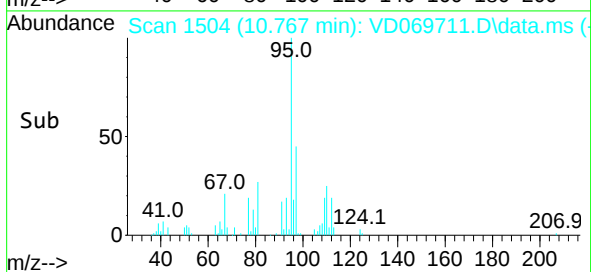
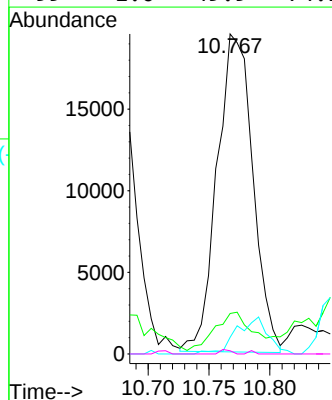
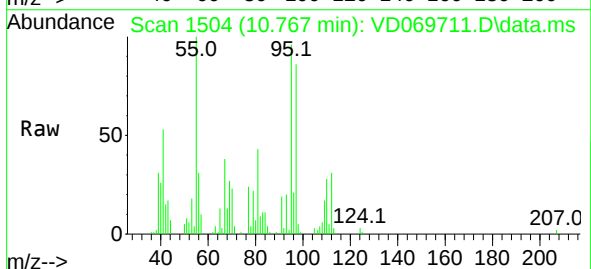
Instrument :
MSVOA_D
ClientSampled :

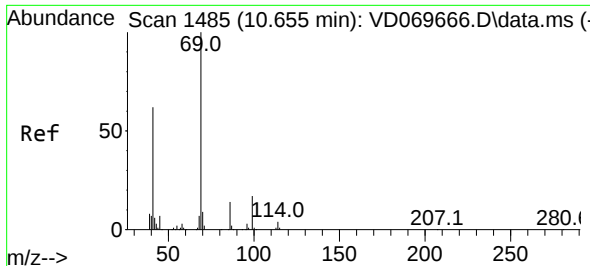
Tgt Ion: 43 Resp: 7502
Ion Ratio Lower Upper
43 100
58 19.0 33.5 50.3#



#55
1,1,2-Trichloroethane
Concen: 7.495 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.029 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion: 97 Resp: 39813
Ion Ratio Lower Upper
97 100
83 10.5 72.3 108.5#
85 5.3 45.5 68.3#
99 1.0 49.9 74.9#

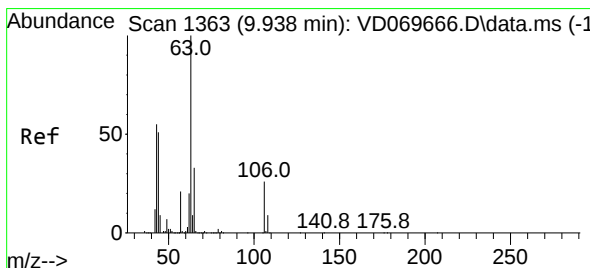
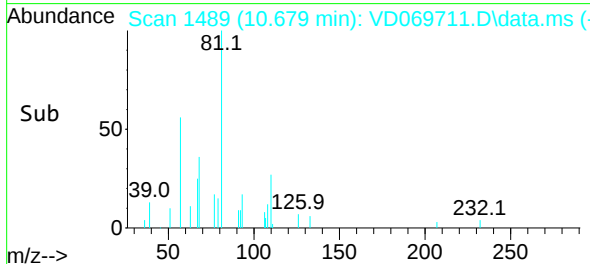
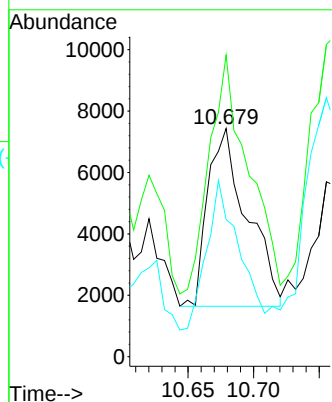
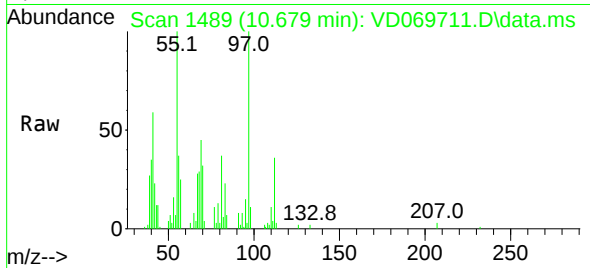




#56
Ethyl methacrylate
Concen: 3.382 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.024 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

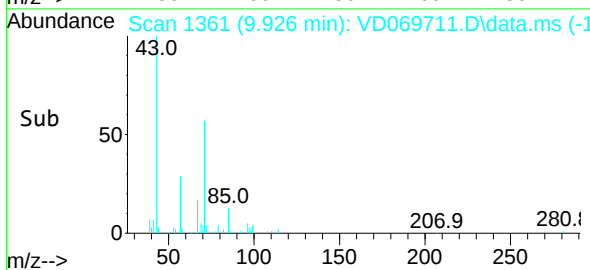
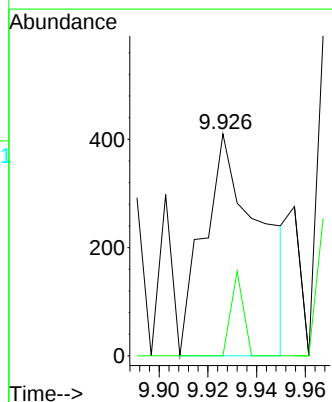
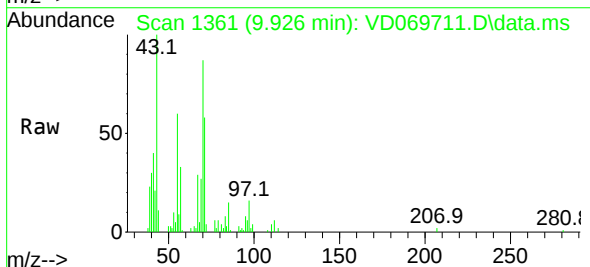
Instrument :
MSVOA_D
ClientSampled :

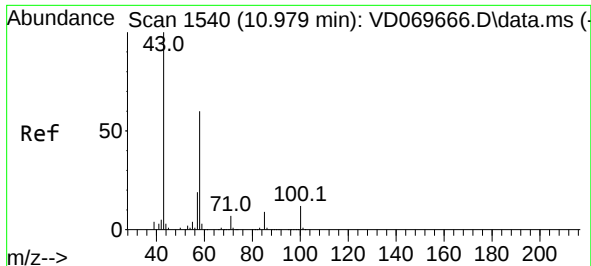
Tgt Ion: 69 Resp: 12055
Ion Ratio Lower Upper
69 100
41 169.8 49.5 74.3#
39 76.7 22.5 33.7#



#58
2-Chloroethyl Vinyl ether
Concen: 9.569 ug/l
RT: 9.926 min Scan# 1361
Delta R.T. -0.012 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion: 63 Resp: 657
Ion Ratio Lower Upper
63 100
106 8.4 21.1 31.7#

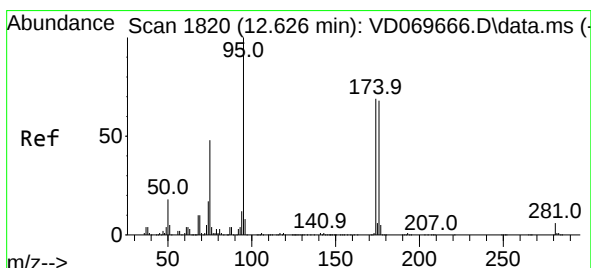
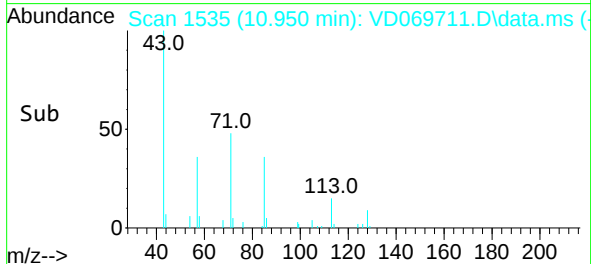
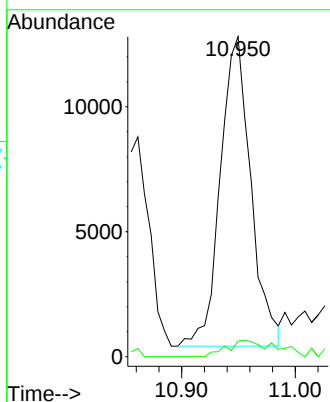
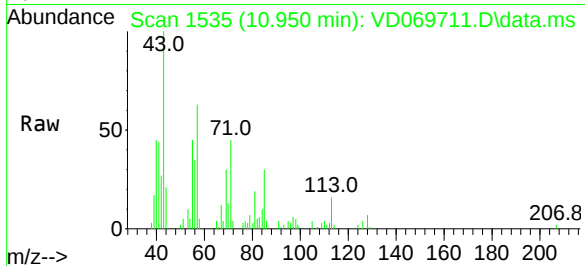




#59
2-Hexanone
Concen: 9.429 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.029 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

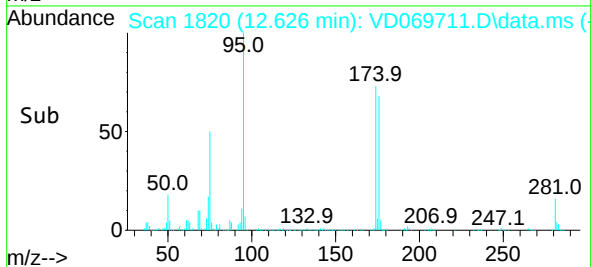
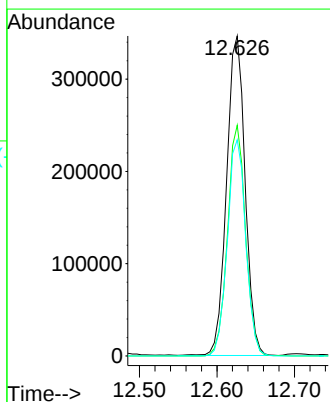
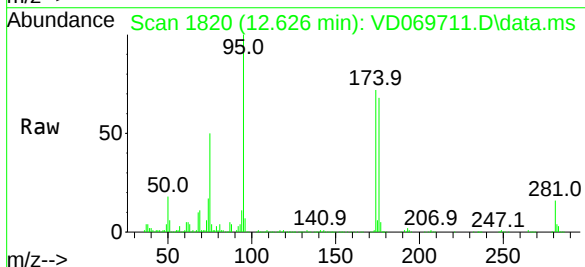
Instrument :
MSVOA_D
ClientSampleId :

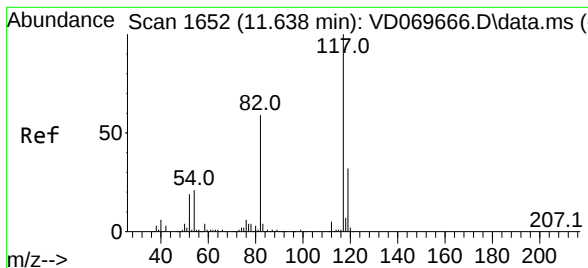
Tgt Ion: 43 Resp: 23138
Ion Ratio Lower Upper
43 100
58 5.7 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 66.594 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion: 95 Resp: 575878
Ion Ratio Lower Upper
95 100
174 70.1 0.0 140.0
176 67.1 0.0 136.2

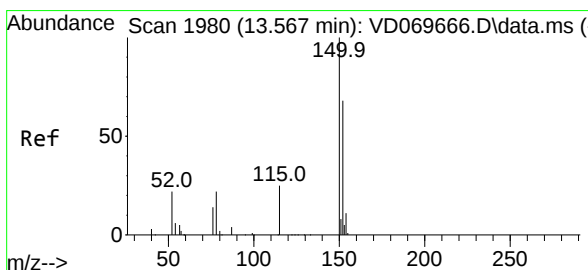
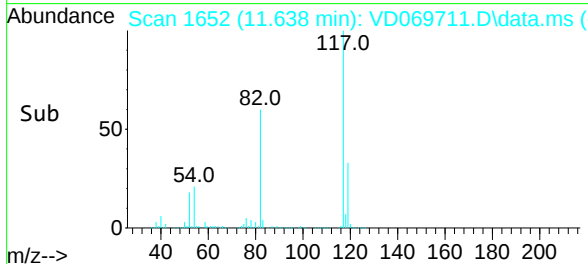
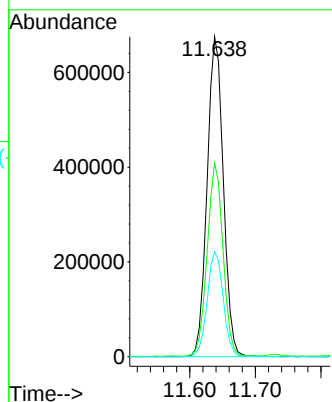
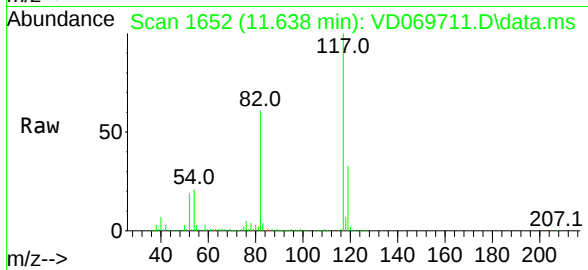




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

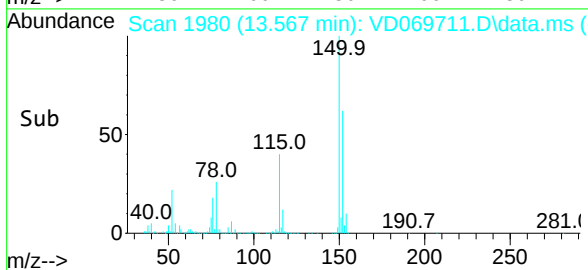
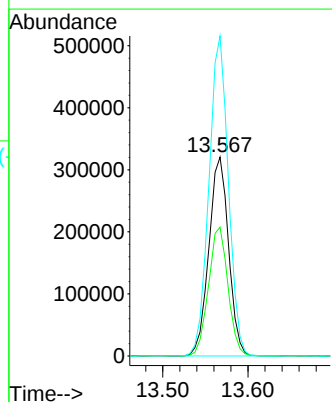
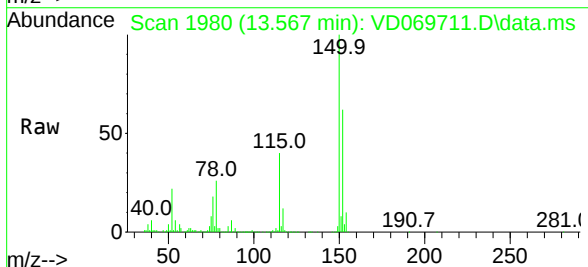
Instrument :
MSVOA_D
ClientSampleId :

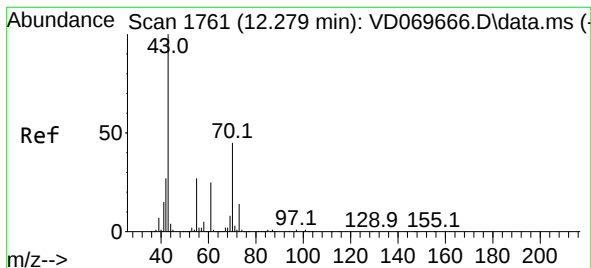
Tgt Ion:117 Resp: 1160709
Ion Ratio Lower Upper
117 100
82 60.4 47.4 71.2
119 32.8 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion:152 Resp: 515705
Ion Ratio Lower Upper
152 100
115 64.0 31.7 95.1
150 158.1 0.0 350.4





#74

N-amy1 acetate

Concen: 1.122 ug/l

RT: 12.267 min Scan# 1759

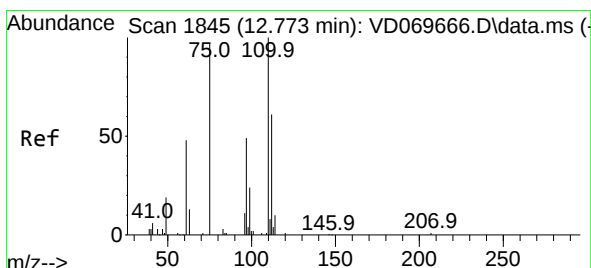
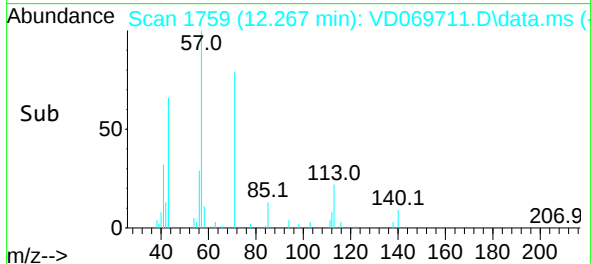
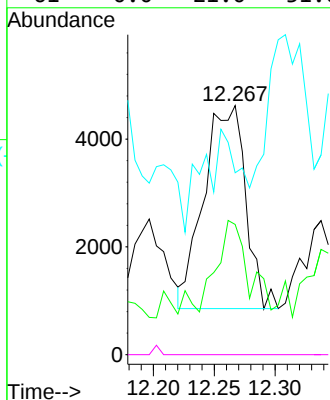
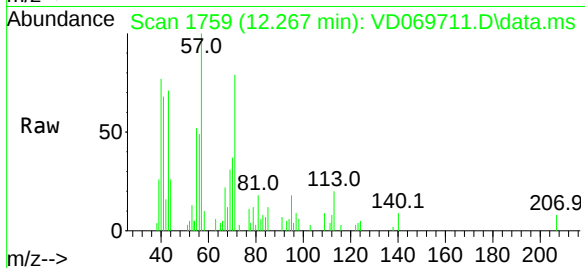
Delta R.T. -0.012 min

Lab File: VD069711.D

Acq: 15 Jul 2021 17:04

Tgt Ion: 43	Resp: 8951
Ion Ratio	Lower Upper
43 100	
70 33.8	36.9 55.3#
55 44.3	22.4 33.6#
61 0.0	21.0 31.6#

Instrument :
MSVOA_D
ClientSampleId :



#76

1,2,3-Trichloropropane

Concen: 56.819 ug/l

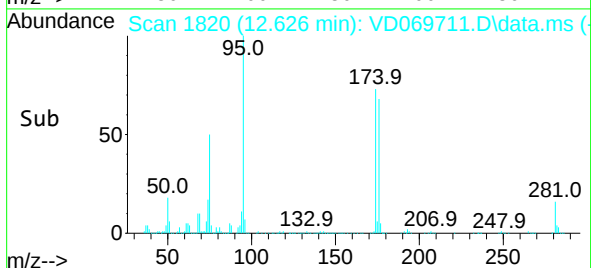
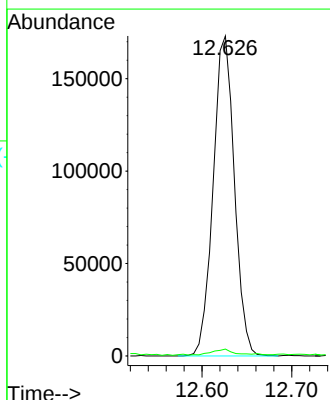
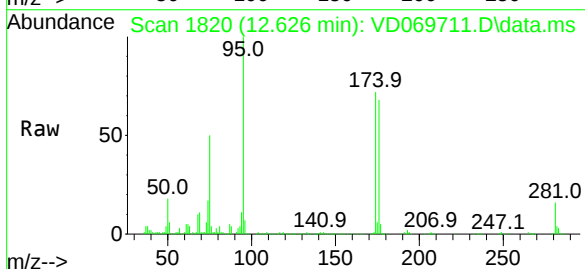
RT: 12.626 min Scan# 1820

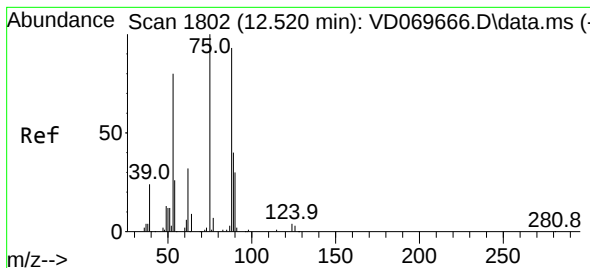
Delta R.T. -0.147 min

Lab File: VD069711.D

Acq: 15 Jul 2021 17:04

Tgt Ion: 75	Resp: 284658
Ion Ratio	Lower Upper
75 100	
77 2.1	0.0 0.0#

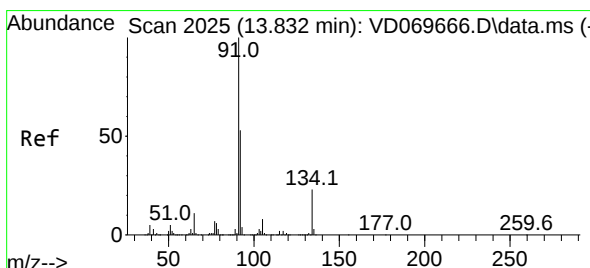
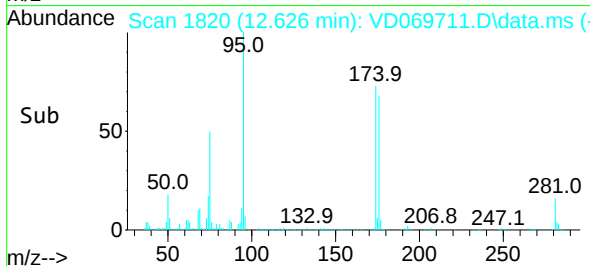
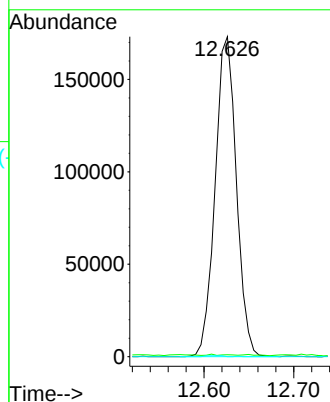
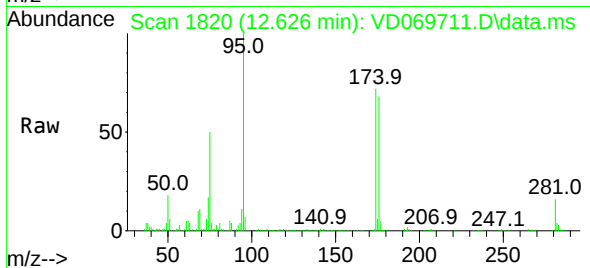




#81
trans-1,4-Dichloro-2-butene
Concen: 152.698 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

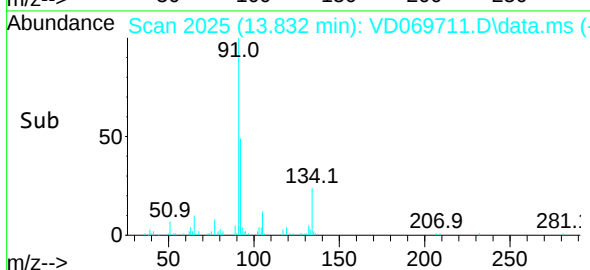
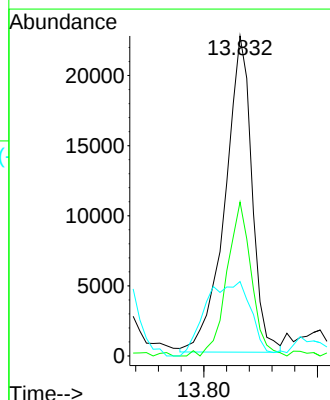
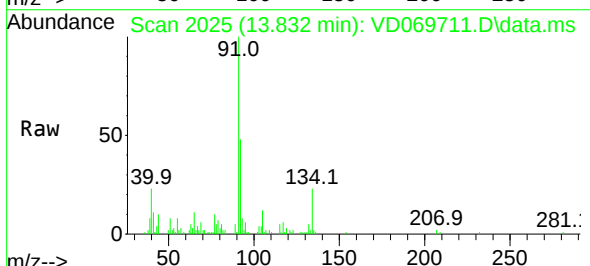
Instrument :
MSVOA_D
ClientSampleId :

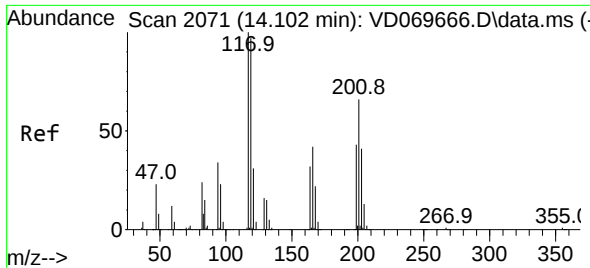
Tgt Ion: 75 Resp: 284658
Ion Ratio Lower Upper
75 100
53 0.1 70.6 106.0#
89 0.2 35.1 52.7#



#89
n-Butylbenzene
Concen: 1.153 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion: 91 Resp: 37123
Ion Ratio Lower Upper
91 100
92 44.3 26.6 79.8
134 39.5 11.7 35.1#

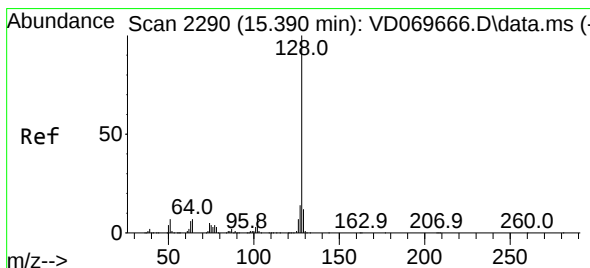
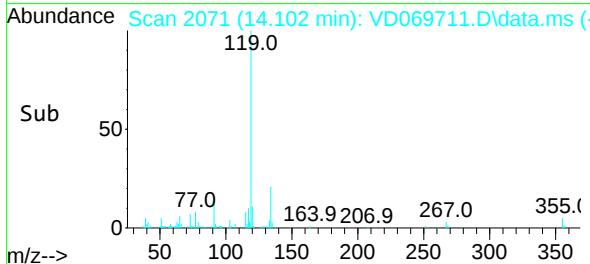
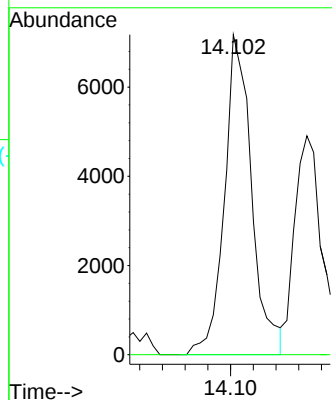
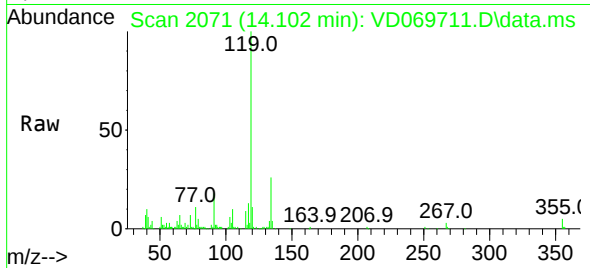




#90
Hexachloroethane
Concen: 1.806 ug/l
RT: 14.102 min Scan# 2071
Delta R.T. 0.000 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:117 Resp: 11945
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.5#



#95
Naphthalene
Concen: 2.504 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. -0.005 min
Lab File: VD069711.D
Acq: 15 Jul 2021 17:04

Tgt Ion:128 Resp: 5107
Ion Ratio Lower Upper
128 100
127 11.0 10.6 16.0
129 9.2 8.8 13.2

