

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD042921\
 Data File : VD069020.D
 Acq On : 29 Apr 2021 16:06
 Operator : VA/SY
 Sample : M2204-01
 Misc : 3.88G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 30 02:56:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D040721S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 08 03:50:31 2021
 Response via : Initial Calibration

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

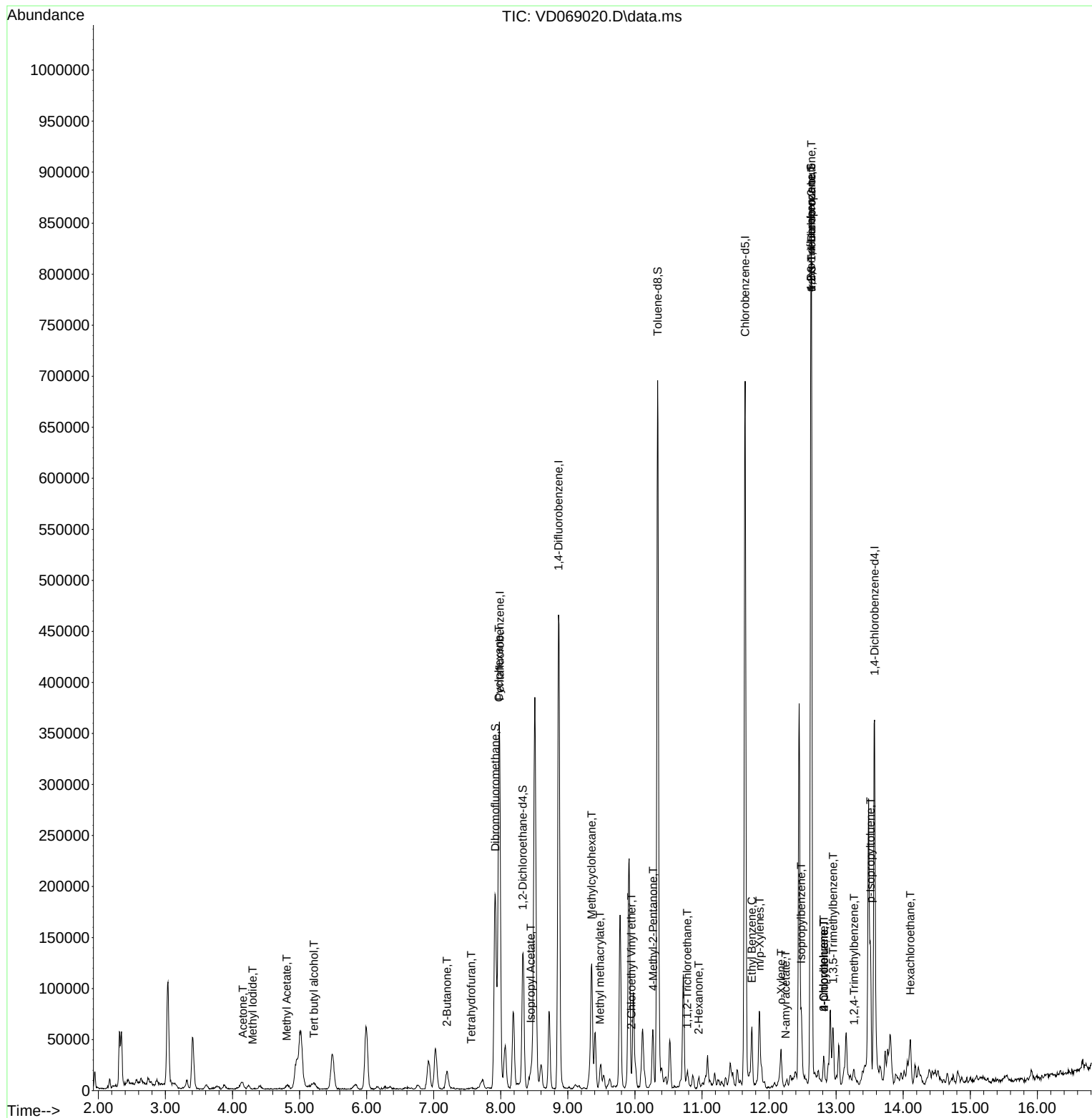
Internal Standards						
1) Pentafluorobenzene	7.985	168	240414	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	429166	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	412499	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	103284	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	108907	42.86	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	85.72%		
35) Dibromofluoromethane	7.920	113	137577	49.28	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.56%		
50) Toluene-d8	10.338	98	488893	46.43	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	92.86%		
62) 4-Bromofluorobenzene	12.626	95	159418	45.58	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	91.16%		
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.303	142	303	2.35	ug/l #	73
11) Tert butyl alcohol	5.214	59	11112	59.65	ug/l #	73
16) Acetone	4.156	43	2862	8.13	ug/l #	74
18) Methyl Acetate	4.809	43	1179	1.22	ug/l #	43
20) Methylene Chloride	4.967	84	12392	Below Cal	#	90
25) 2-Butanone	7.197	43	1414	2.84	ug/l #	39
29) Tetrahydrofuran	7.561	42	551	1.65	ug/l #	65
31) Cyclohexane	7.973	56	33920	8.02	ug/l #	80
39) Methylcyclohexane	9.355	83	32300	6.38	ug/l #	79
43) Isopropyl Acetate	8.450	43	4893	1.88	ug/l #	45
48) Methyl methacrylate	9.479	41	5519	4.31	ug/l #	37
51) 4-Methyl-2-Pentanone	10.273	43	7130	5.44	ug/l #	66
55) 1,1,2-Trichloroethane	10.779	97	3430	1.43	ug/l #	34
58) 2-Chloroethyl Vinyl ether	9.950	63	161	17.11	ug/l #	44
59) 2-Hexanone	10.949	43	3822	4.36	ug/l #	19
67) Ethyl Benzene	11.744	91	37750	2.44	ug/l	98
68) m/p-Xylenes	11.861	106	21604	3.62	ug/l	99
69) o-Xylene	12.179	106	9918	1.83	ug/l	88
73) Isopropylbenzene	12.479	105	10643	1.41	ug/l	93
74) N-amyl acetate	12.249	43	1671	1.31	ug/l #	71
76) 1,2,3-Trichloropropane	12.632	75	82450	87.38	ug/l #	100
78) n-propylbenzene	12.814	91	13003	1.42	ug/l	95
79) 2-Chlorotoluene	12.814	91	13003	2.54	ug/l	72
80) 1,3,5-Trimethylbenzene	12.955	105	9464	1.50	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.632	75	82450	202.79	ug/l #	17
82) 4-Chlorotoluene	12.814	91	13003	2.40	ug/l	71
84) 1,2,4-Trimethylbenzene	13.267	105	7690	1.21	ug/l	97
86) p-Isopropyltoluene	13.514	119	75570	10.96	ug/l #	77
90) Hexachloroethane	14.108	117	2683	1.95	ug/l #	27

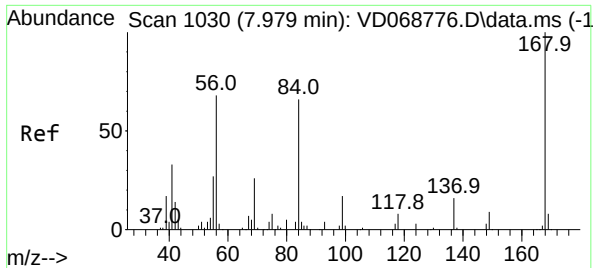
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 08 03:50:31 2021
Response via : Initial Calibration

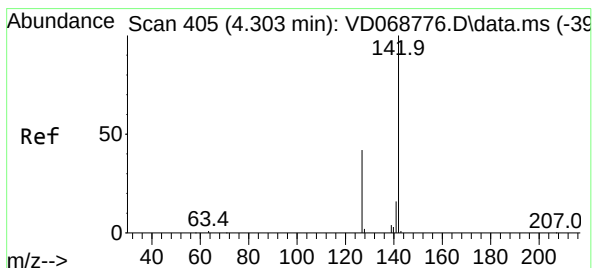
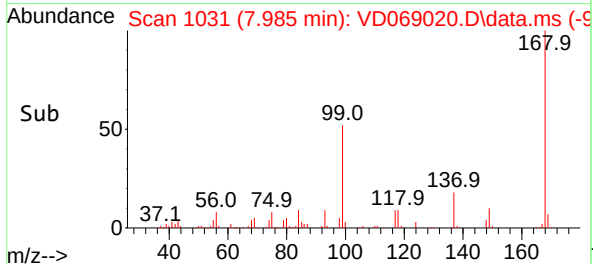
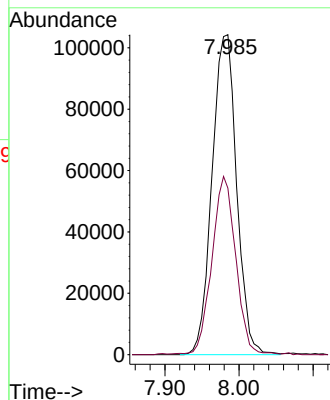
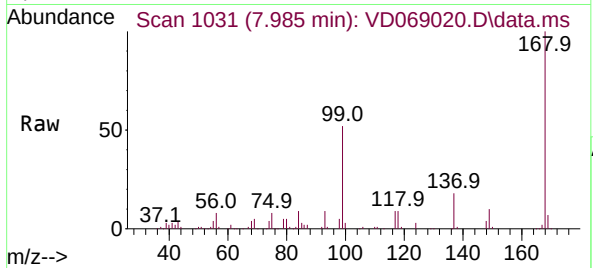




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

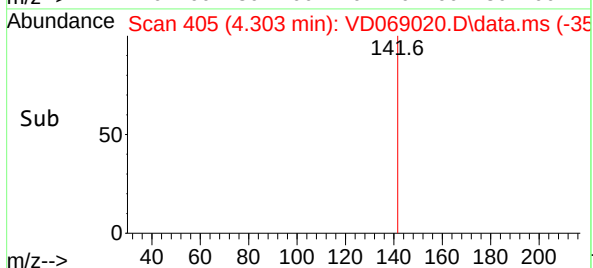
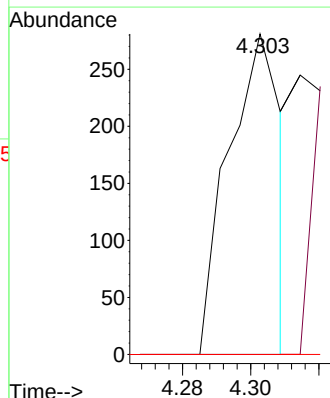
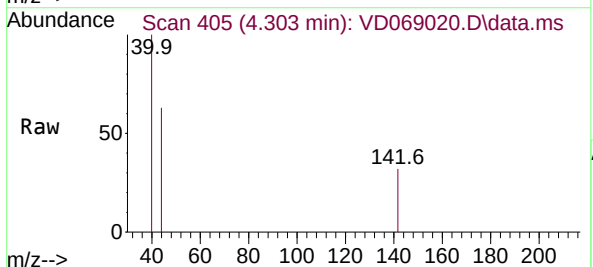
Instrument :
MSVOA_D
ClientSampled :

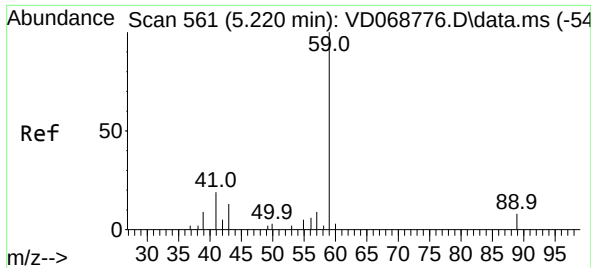
Tgt Ion:168 Resp: 240414
Ion Ratio Lower Upper
168 100
99 51.8 46.2 69.2



#10
Methyl Iodide
Concen: 2.35 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion:142 Resp: 303
Ion Ratio Lower Upper
142 100
127 27.4 34.7 52.1#
141 0.0 11.0 16.4#

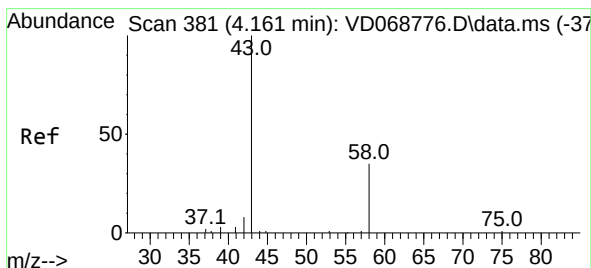
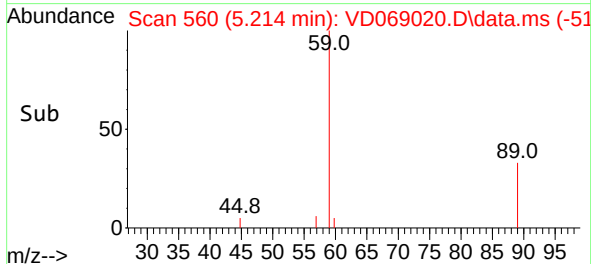
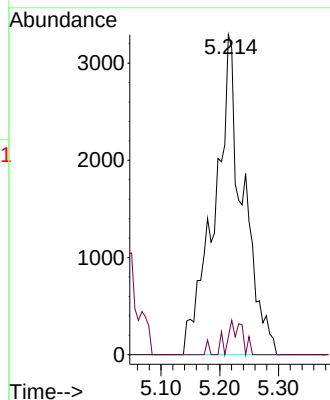
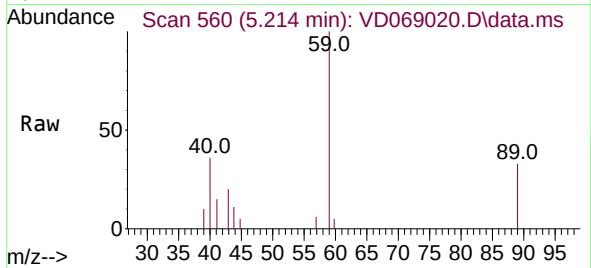




#11
Tert butyl alcohol
Concen: 59.65 ug/l
RT: 5.214 min Scan# 560
Delta R.T. -0.006 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

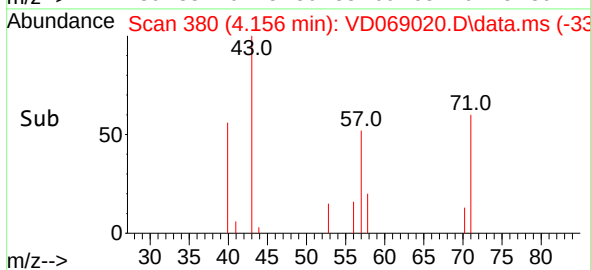
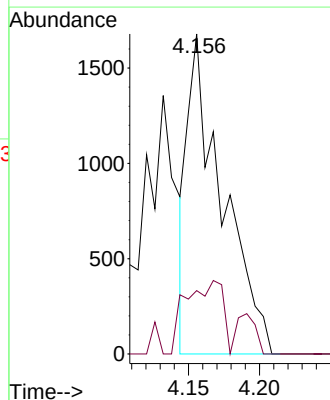
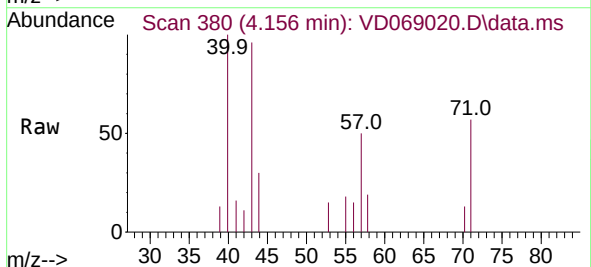
Instrument :
MSVOA_D
ClientSampleId :

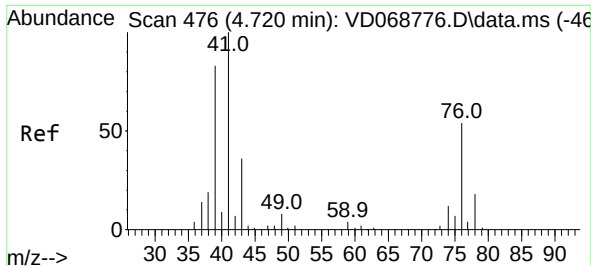
Tgt Ion: 59 Resp: 11112
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: 8.13 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.005 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 43 Resp: 2862
Ion Ratio Lower Upper
43 100
58 19.8 28.0 42.0#

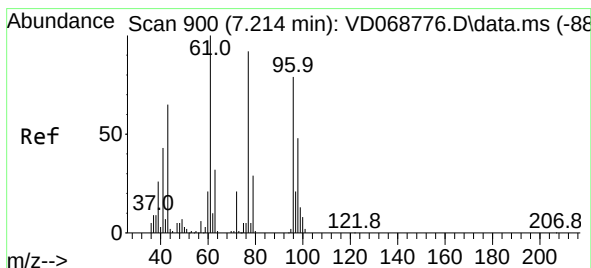
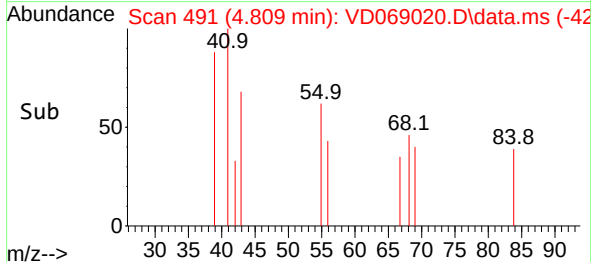
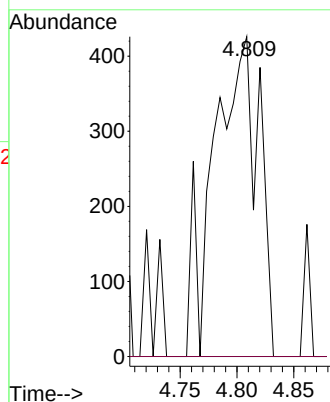
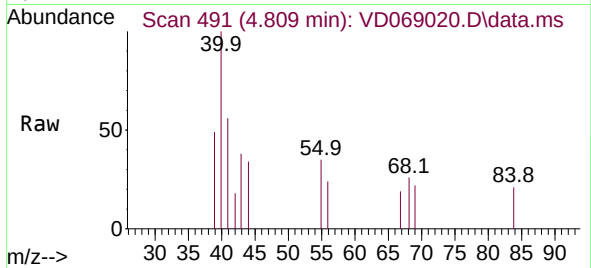




#18
Methyl Acetate
Concen: 1.22 ug/l
RT: 4.809 min Scan# 491
Delta R.T. 0.089 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

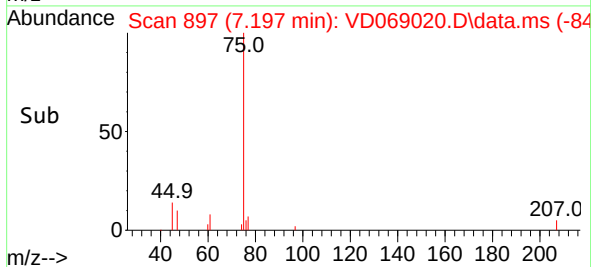
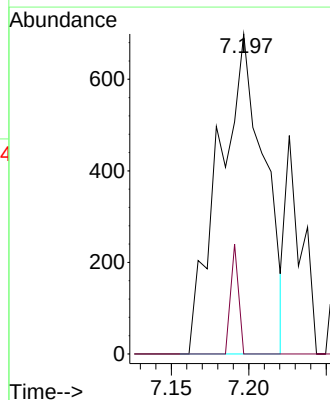
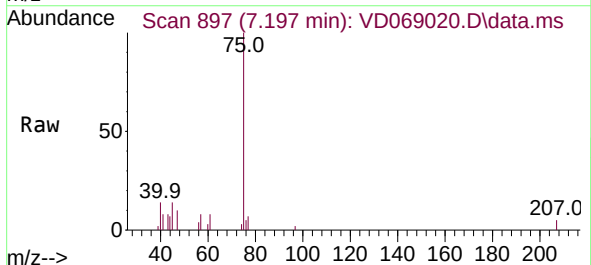
Instrument :
MSVOA_D
ClientSampleId :

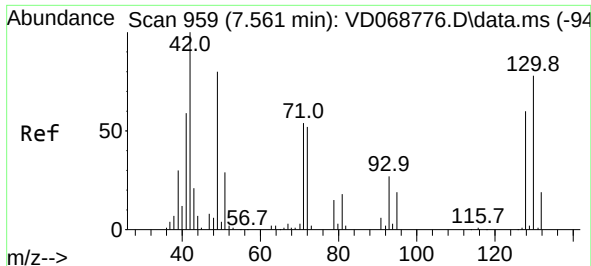
Tgt Ion: 43 Resp: 1179
Ion Ratio Lower Upper
43 100
74 0.0 25.4 38.2#



#25
2-Butanone
Concen: 2.84 ug/l
RT: 7.197 min Scan# 897
Delta R.T. -0.017 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 43 Resp: 1414
Ion Ratio Lower Upper
43 100
72 0.0 28.6 43.0#





#29

Tetrahydrofuran

Concen: 1.65 ug/l

RT: 7.561 min Scan# 959

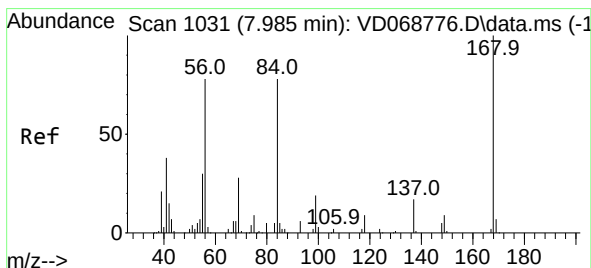
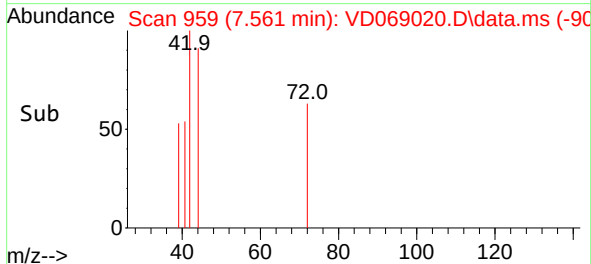
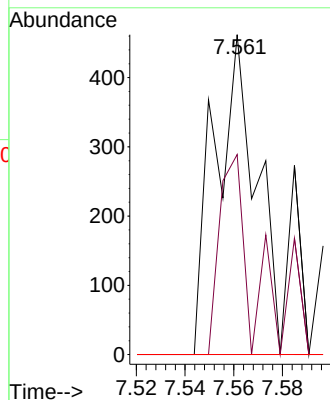
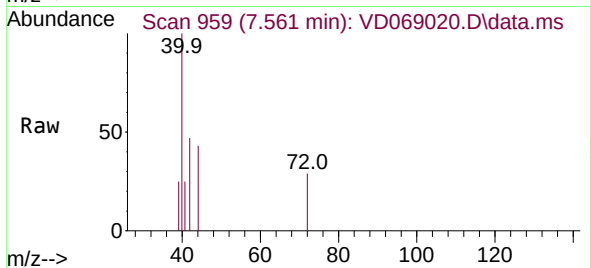
Delta R.T. 0.000 min

Lab File: VD069020.D

Acq: 29 Apr 2021 16:06

Tgt Ion:	42	Resp:	551
Ion	Ratio	Lower	Upper
42	100		
72	56.4	45.2	67.8
71	0.0	40.8	61.2#

Instrument :
MSVOA_D
ClientSampled :



#31

Cyclohexane

Concen: 8.02 ug/l

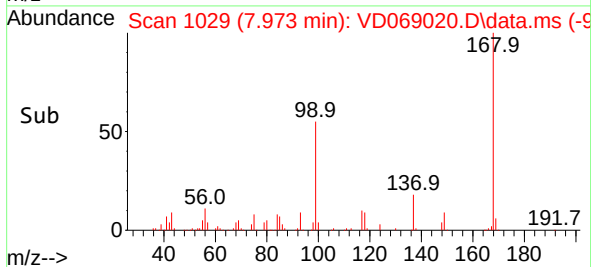
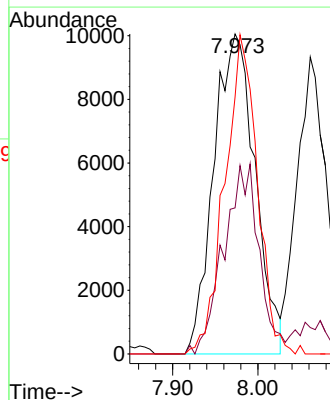
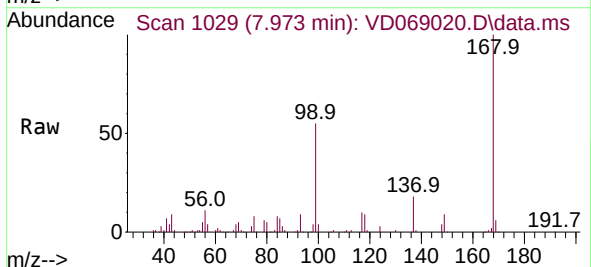
RT: 7.973 min Scan# 1029

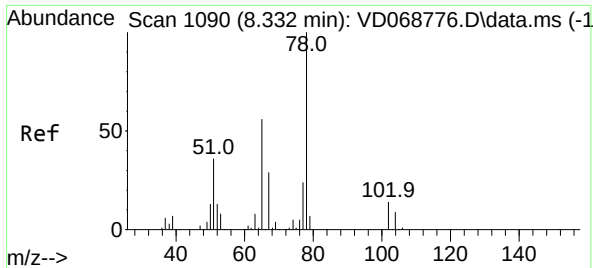
Delta R.T. -0.012 min

Lab File: VD069020.D

Acq: 29 Apr 2021 16:06

Tgt Ion:	56	Resp:	33920
Ion	Ratio	Lower	Upper
56	100		
69	45.6	30.0	45.0#
84	80.4	82.0	123.0#

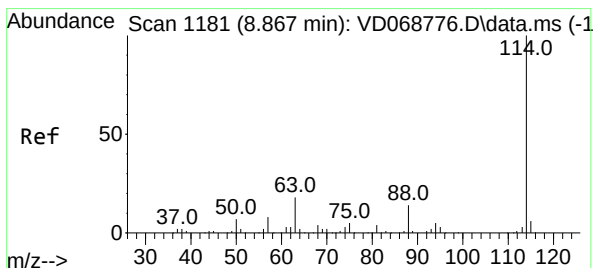
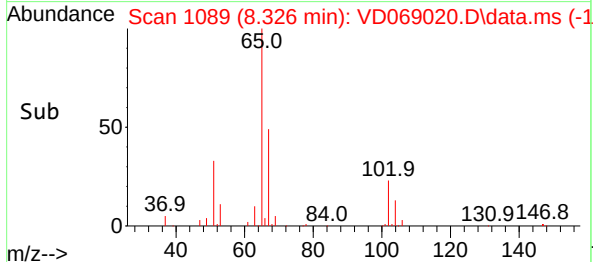
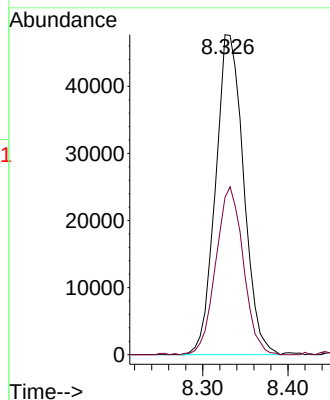
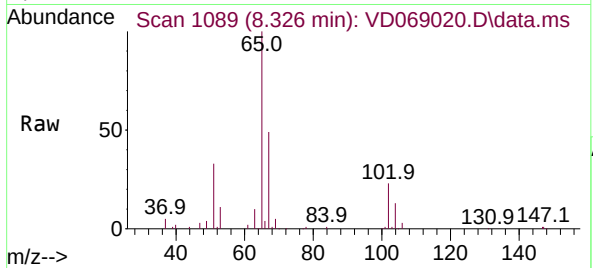




#33
 1,2-Dichloroethane-d4
 Concen: 42.86 ug/l
 RT: 8.326 min Scan# 1089
 Delta R.T. -0.006 min
 Lab File: VD069020.D
 Acq: 29 Apr 2021 16:06

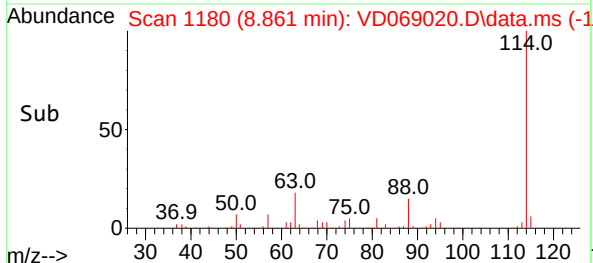
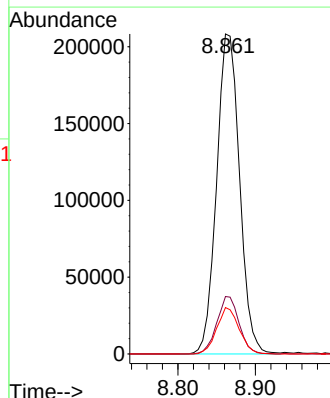
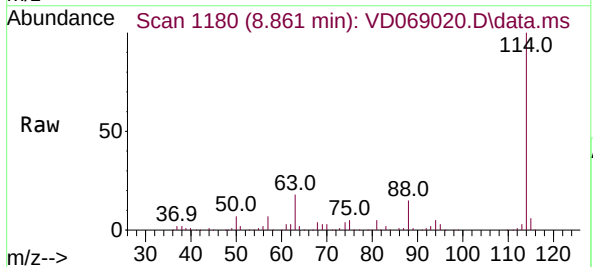
Instrument :
 MSVOA_D
 ClientSampleId :

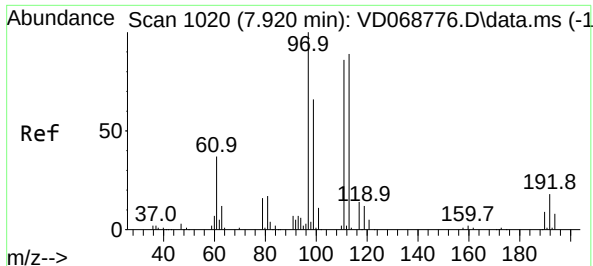
Tgt Ion: 65 Resp: 108907
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.861 min Scan# 1180
 Delta R.T. -0.006 min
 Lab File: VD069020.D
 Acq: 29 Apr 2021 16:06

Tgt Ion: 114 Resp: 429166
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 38.2
 88 14.5 0.0 29.4





#35

Dibromofluoromethane

Concen: 49.28 ug/l

RT: 7.920 min Scan# 1020

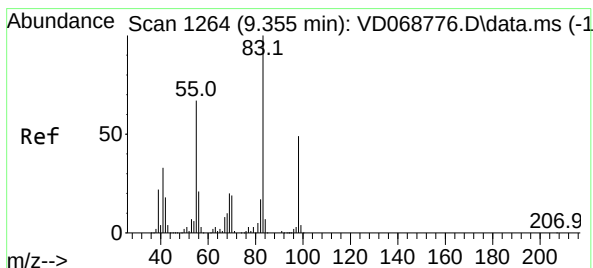
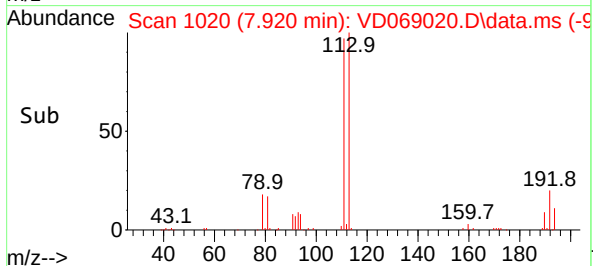
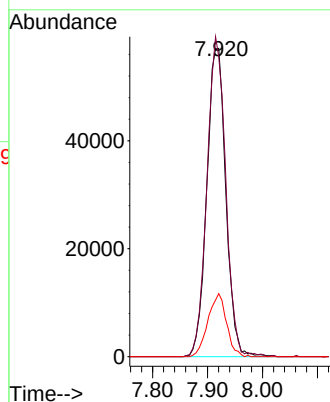
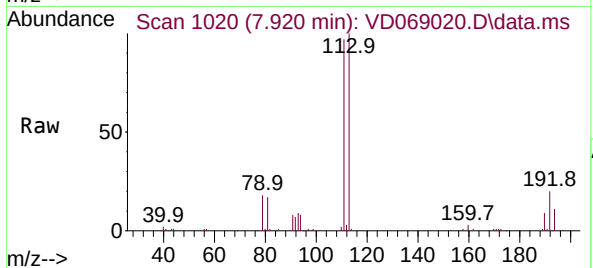
Delta R.T. 0.000 min

Lab File: VD069020.D

Acq: 29 Apr 2021 16:06

Tgt Ion:	113	Resp:	137577
Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.5	123.7
192	20.0	15.1	22.7

Instrument :
MSVOA_D
ClientSampleId :



#39

Methylcyclohexane

Concen: 6.38 ug/l

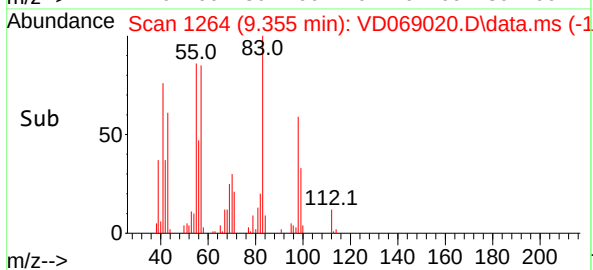
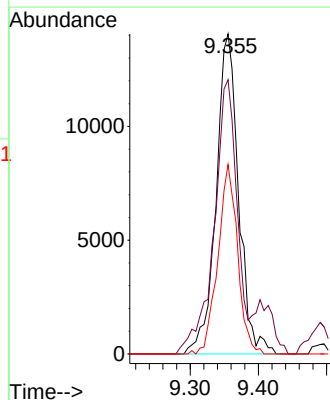
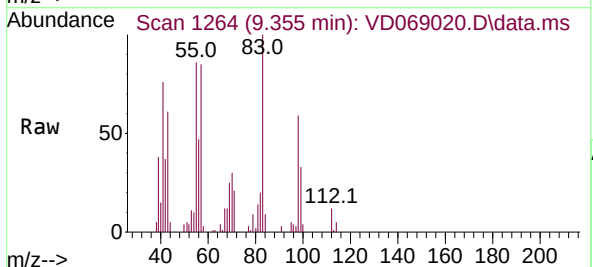
RT: 9.355 min Scan# 1264

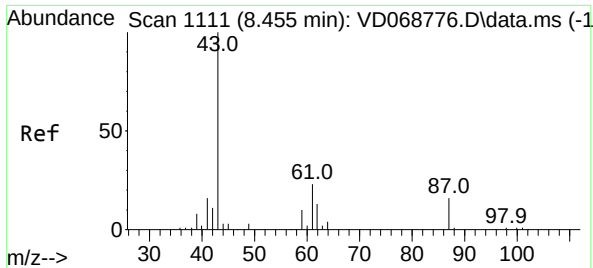
Delta R.T. 0.000 min

Lab File: VD069020.D

Acq: 29 Apr 2021 16:06

Tgt Ion:	83	Resp:	32300
Ion	Ratio	Lower	Upper
83	100		
55	83.8	51.7	77.5#
98	59.2	38.8	58.2#

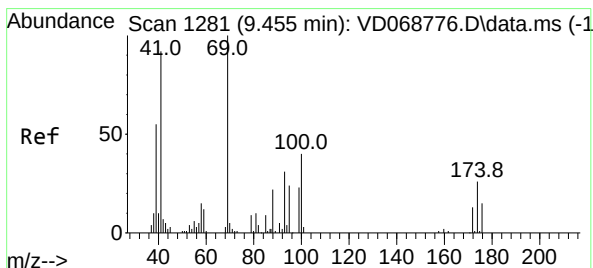
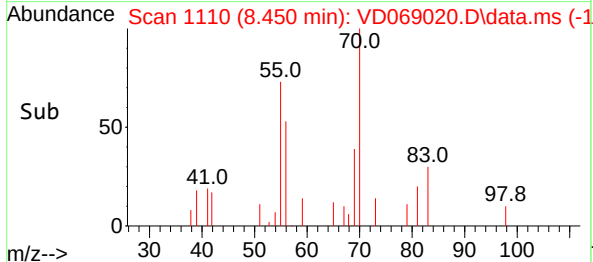
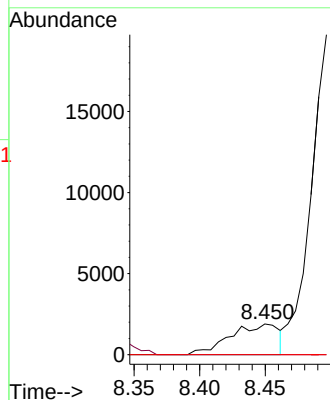
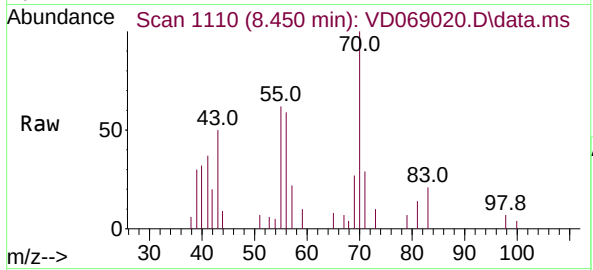




#43
Isopropyl Acetate
Concen: 1.88 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.005 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

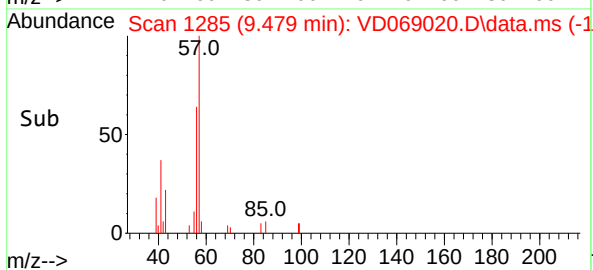
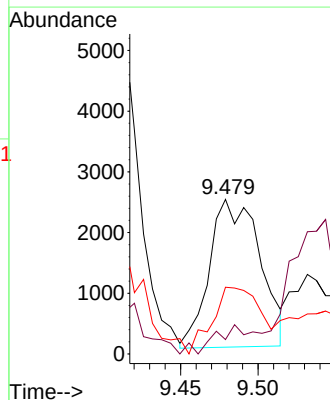
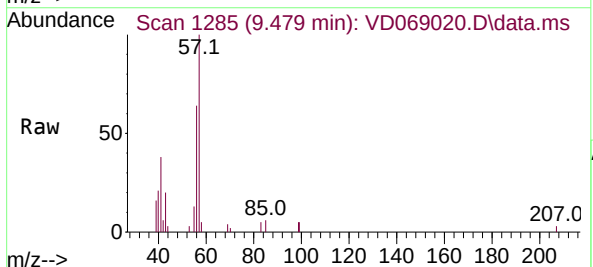
Instrument :
MSVOA_D
ClientSampleId :

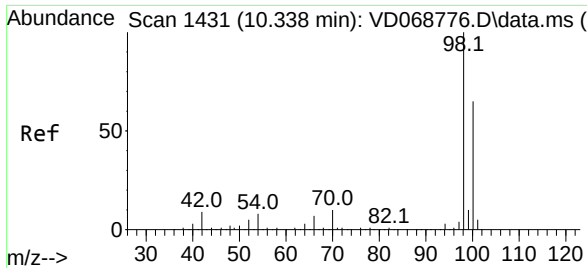
Tgt Ion: 43 Resp: 4893
Ion Ratio Lower Upper
43 100
61 0.0 29.5 44.3#
87 0.0 13.5 20.3#



#48
Methyl methacrylate
Concen: 4.31 ug/l
RT: 9.479 min Scan# 1285
Delta R.T. 0.024 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 41 Resp: 5519
Ion Ratio Lower Upper
41 100
69 16.0 83.0 124.6#
39 42.5 47.0 70.6#

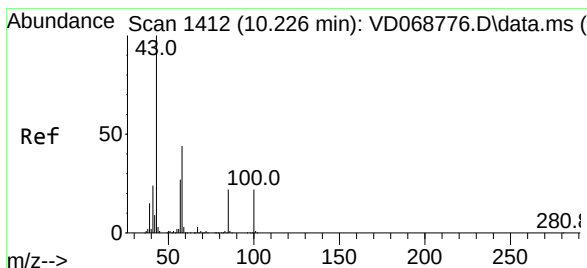
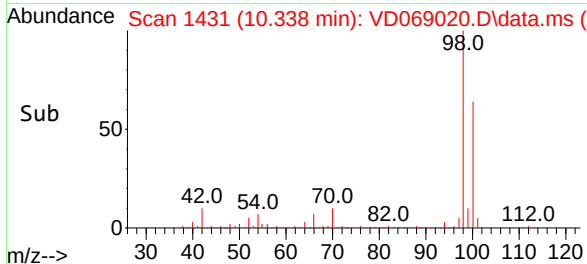
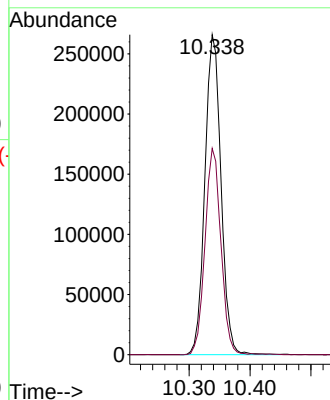
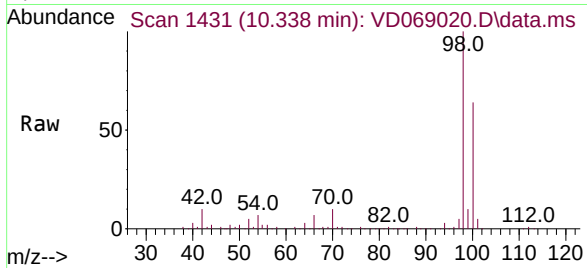




#50
Toluene-d8
Concen: 46.43 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

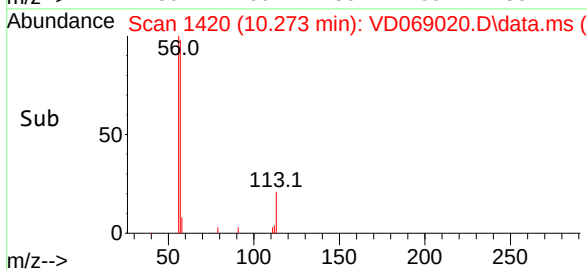
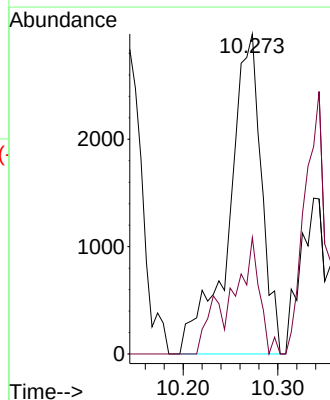
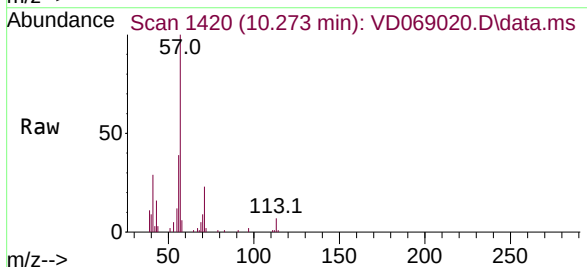
Instrument :
MSVOA_D
ClientSampled :

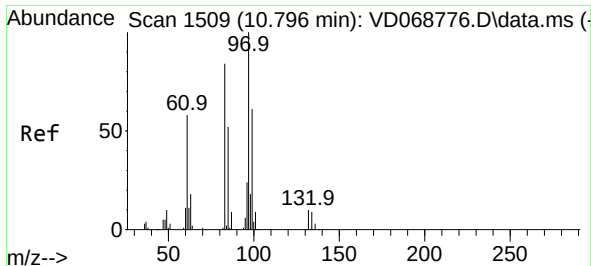
Tgt Ion: 98 Resp: 488893
Ion Ratio Lower Upper
98 100
100 63.7 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 5.44 ug/l
RT: 10.273 min Scan# 1420
Delta R.T. 0.047 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 43 Resp: 7130
Ion Ratio Lower Upper
43 100
58 23.9 37.3 55.9#

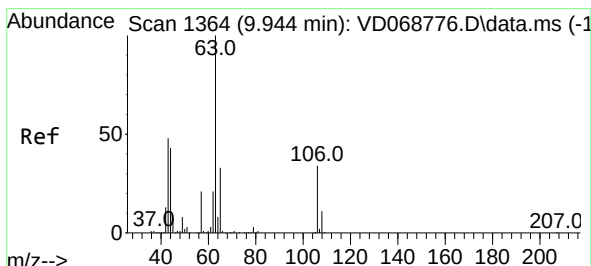
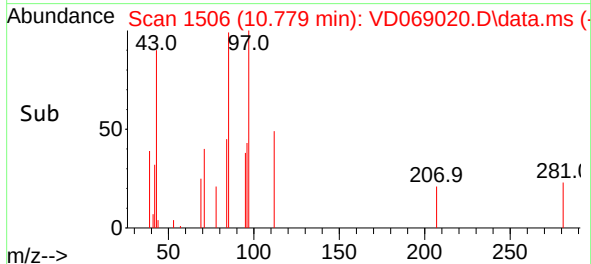
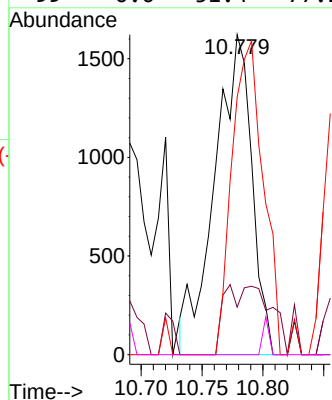
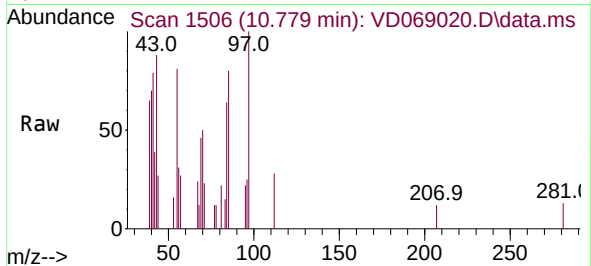




#55
 1,1,2-Trichloroethane
 Concen: 1.43 ug/l
 RT: 10.779 min Scan# 1506
 Delta R.T. -0.017 min
 Lab File: VD069020.D
 Acq: 29 Apr 2021 16:06

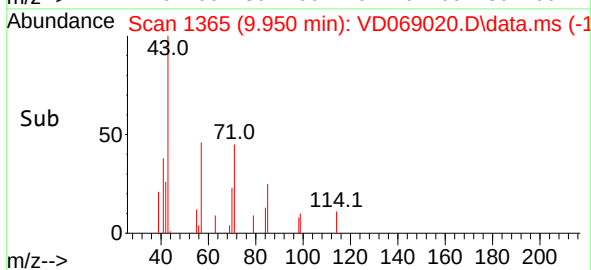
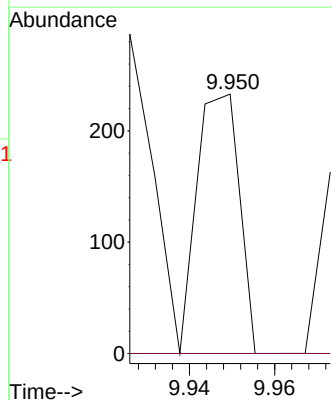
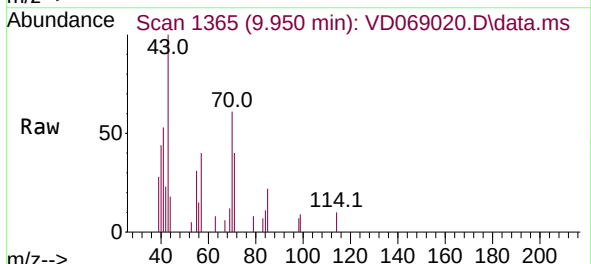
Instrument :
 MSVOA_D
 ClientSampleId :

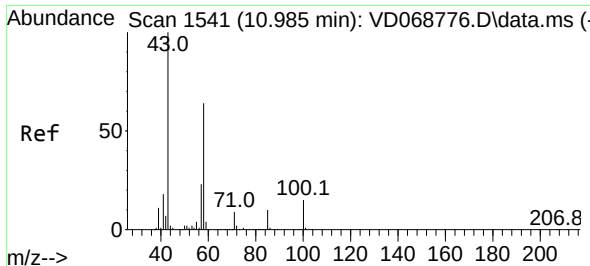
Tgt Ion:	97	Resp:	3430
Ion	Ratio	Lower	Upper
97	100		
83	14.9	65.7	98.5#
85	80.5	44.3	66.5#
99	0.0	51.4	77.2#



#58
 2-Chloroethyl Vinyl ether
 Concen: 17.11 ug/l
 RT: 9.950 min Scan# 1365
 Delta R.T. 0.006 min
 Lab File: VD069020.D
 Acq: 29 Apr 2021 16:06

Tgt Ion:	63	Resp:	161
Ion	Ratio	Lower	Upper
63	100		
106	0.0	24.6	36.8#

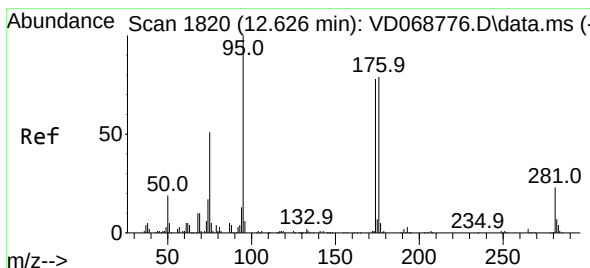
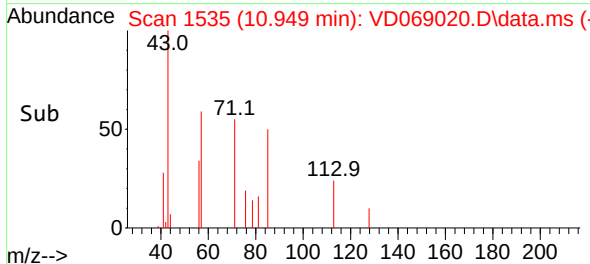
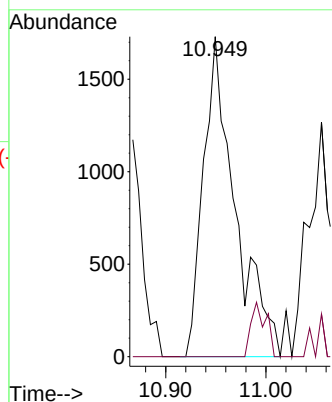
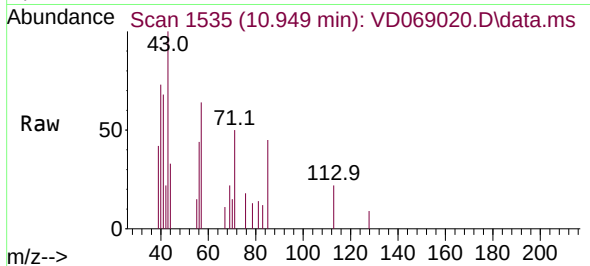




#59
2-Hexanone
Concen: 4.36 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.036 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

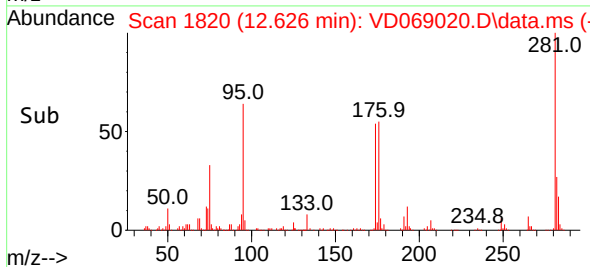
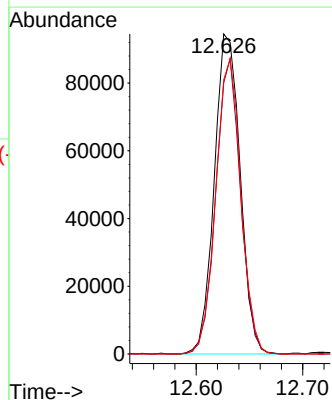
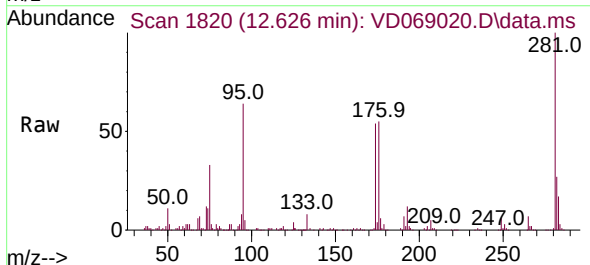
Instrument :
MSVOA_D
ClientSampled :

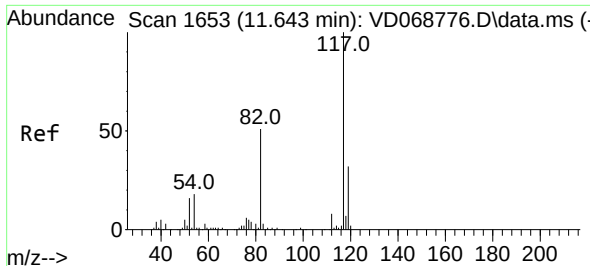
Tgt Ion: 43 Resp: 3822
Ion Ratio Lower Upper
43 100
58 0.0 31.3 93.8#



#62
4-Bromofluorobenzene
Concen: 45.58 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 95 Resp: 159418
Ion Ratio Lower Upper
95 100
174 87.9 0.0 168.0
176 89.5 0.0 160.2

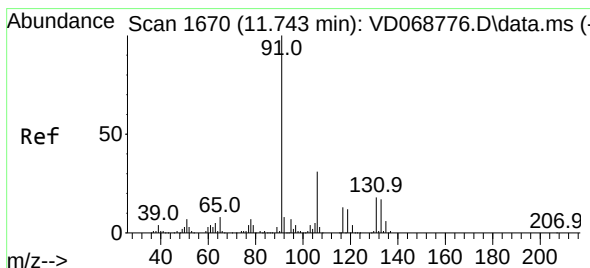
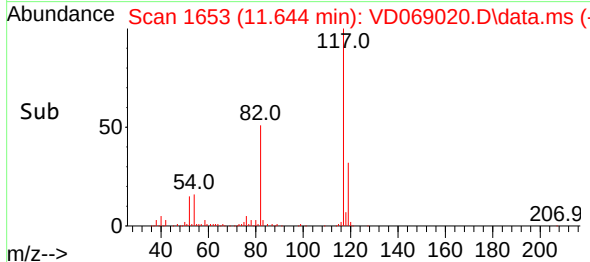
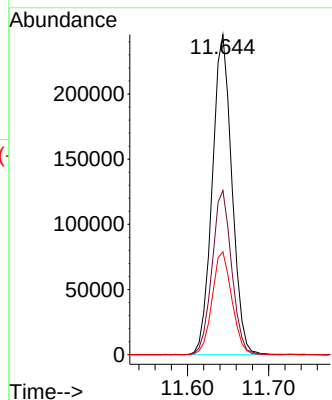
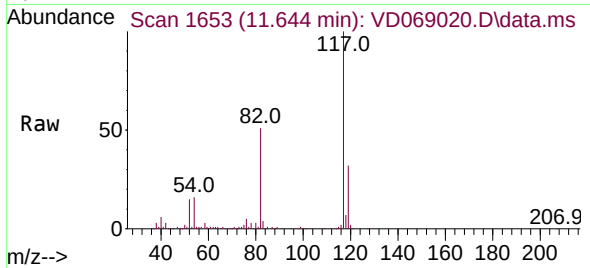




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.001 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

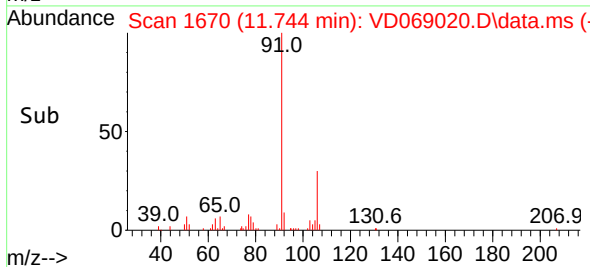
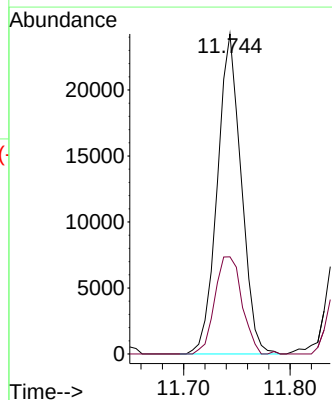
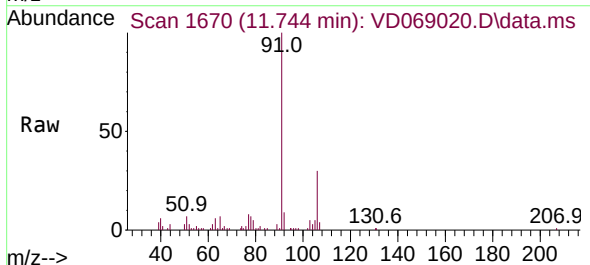
Instrument :
MSVOA_D
ClientSampled :

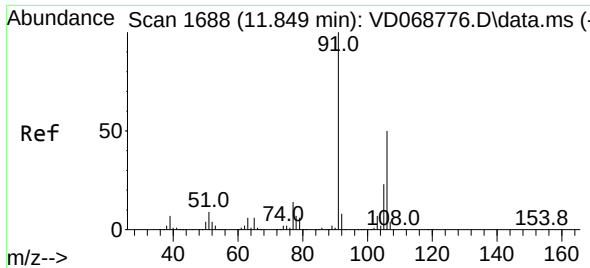
Tgt Ion:117 Resp: 412499
Ion Ratio Lower Upper
117 100
82 51.3 43.5 65.3
119 32.2 26.7 40.1



#67
Ethyl Benzene
Concen: 2.44 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. 0.001 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 91 Resp: 37750
Ion Ratio Lower Upper
91 100
106 30.4 25.1 37.7

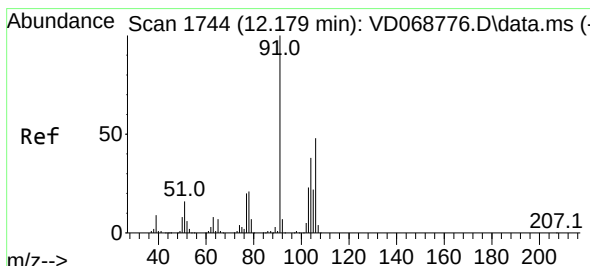
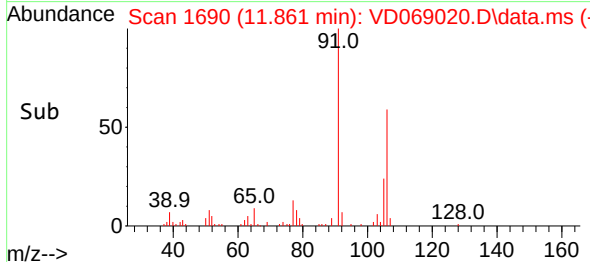
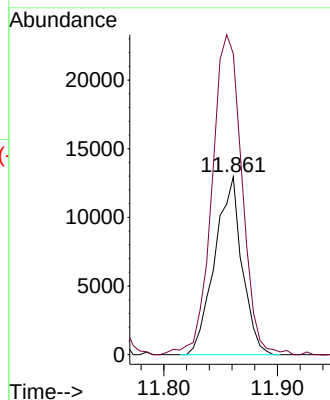
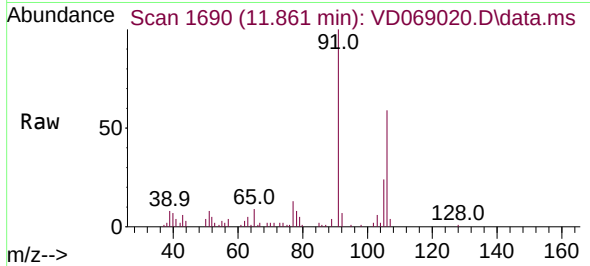




#68
m/p-Xylenes
Concen: 3.62 ug/l
RT: 11.861 min Scan# 1690
Delta R.T. 0.012 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

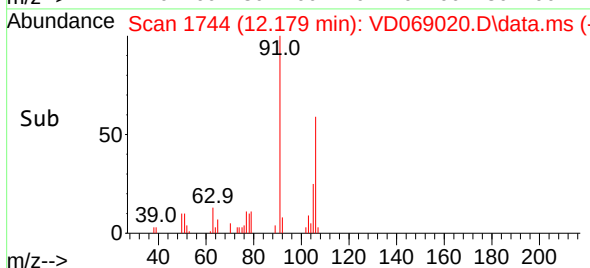
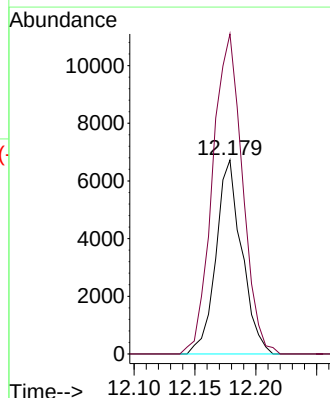
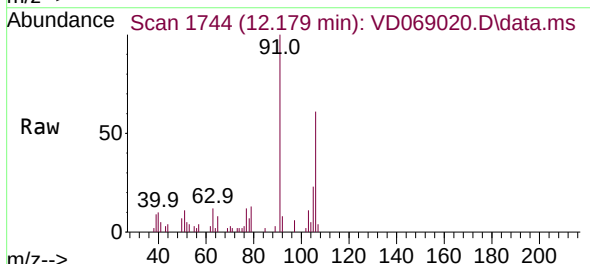
Instrument :
MSVOA_D
ClientSampled :

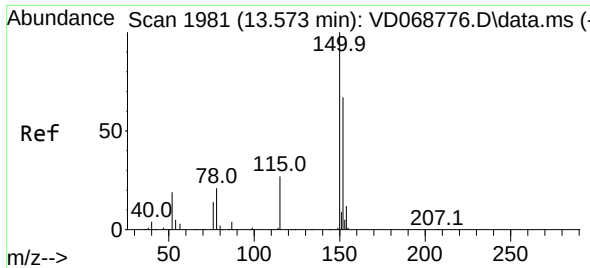
Tgt Ion:106 Resp: 21604
Ion Ratio Lower Upper
106 100
91 197.5 158.6 238.0



#69
o-Xylene
Concen: 1.83 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. -0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion:106 Resp: 9918
Ion Ratio Lower Upper
106 100
91 191.4 105.0 315.0

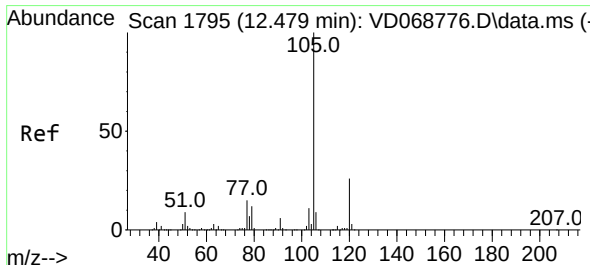
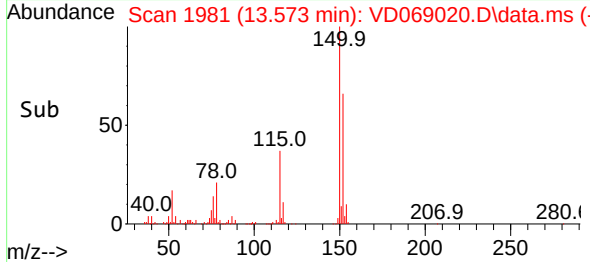
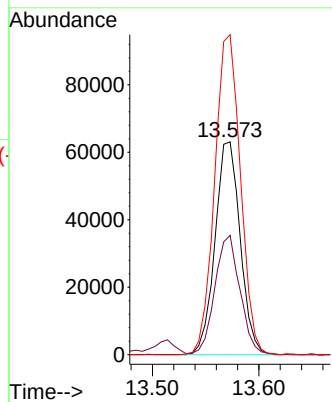
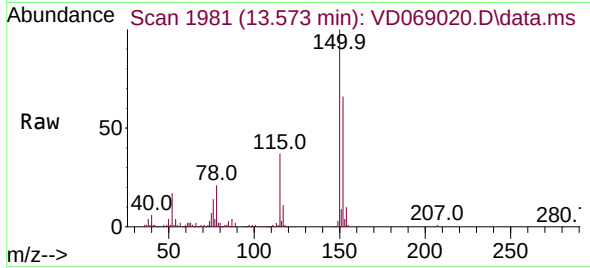




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. -0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

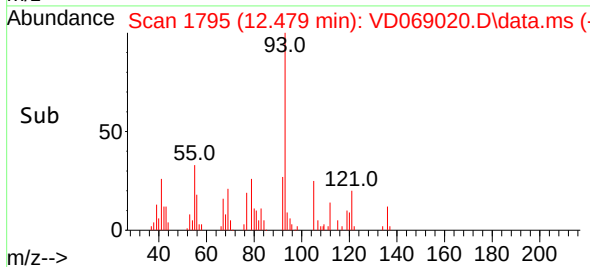
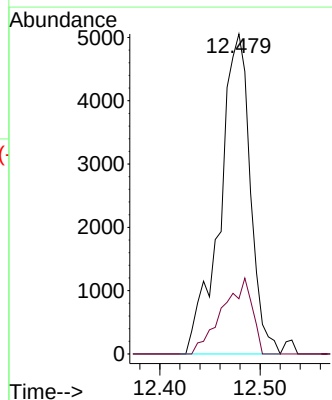
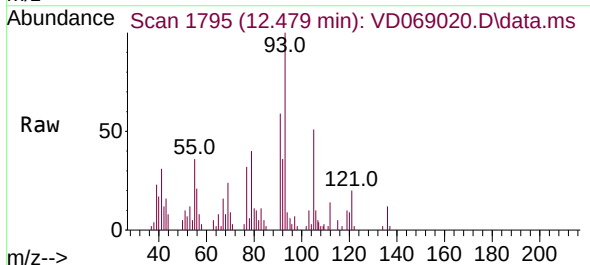
Instrument :
MSVOA_D
ClientSampleId :

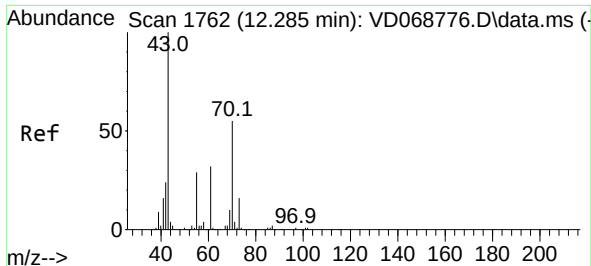
Tgt Ion:152 Resp: 103284
Ion Ratio Lower Upper
152 100
115 56.1 29.3 87.8
150 154.1 0.0 347.6



#73
Isopropylbenzene
Concen: 1.41 ug/l
RT: 12.479 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

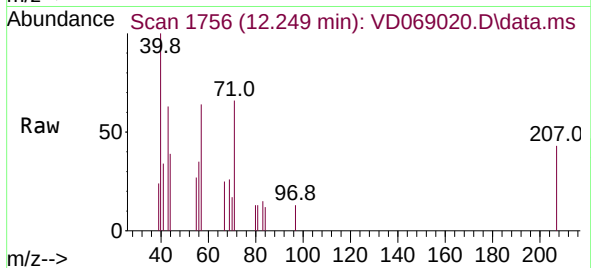
Tgt Ion:105 Resp: 10643
Ion Ratio Lower Upper
105 100
120 23.4 13.4 40.2



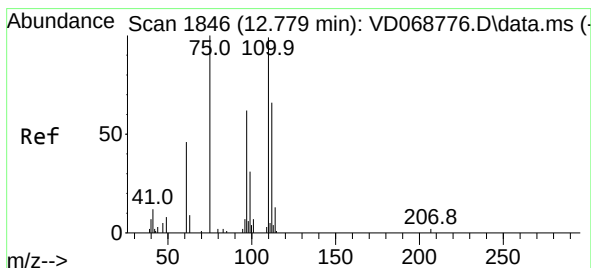
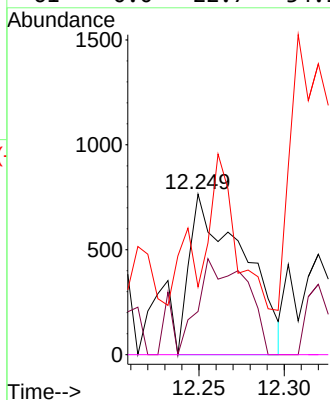
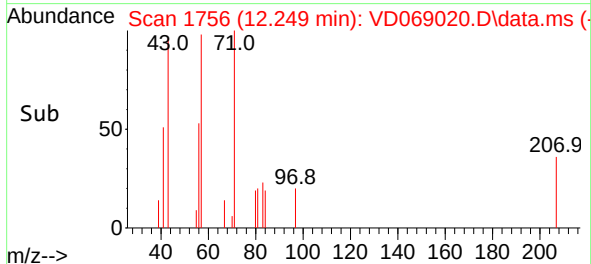


#74
N-amy1 acetate
Concen: 1.31 ug/l
RT: 12.249 min Scan# 1756
Delta R.T. -0.036 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

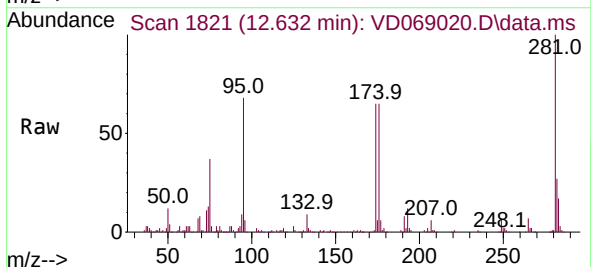
Instrument :
MSVOA_D
ClientSampleId :



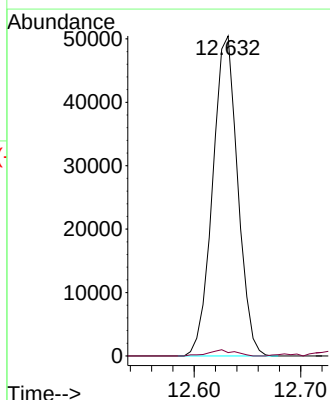
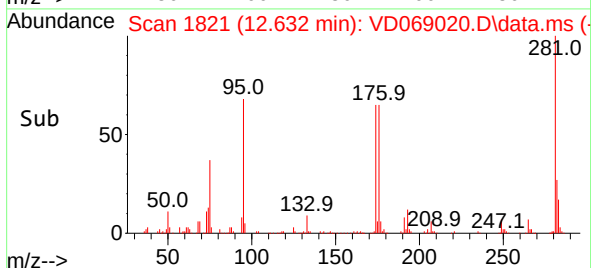
Tgt Ion: 43	Resp: 1671
Ion Ratio	Lower Upper
43 100	
70 53.4	41.9 62.9
55 0.0	22.8 34.2#
61 0.0	22.7 34.1#

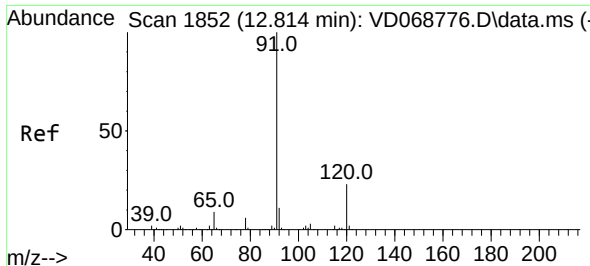


#76
1,2,3-Trichloropropane
Concen: 87.38 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.147 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06



Tgt Ion: 75	Resp: 82450
Ion Ratio	Lower Upper
75 100	
77 2.0	0.0 0.0#

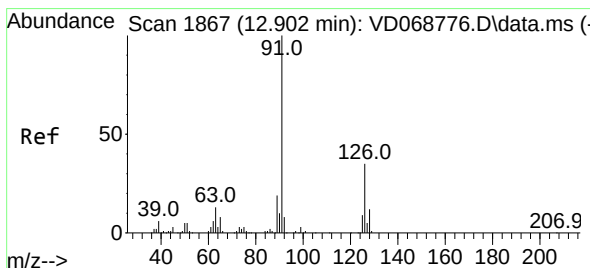
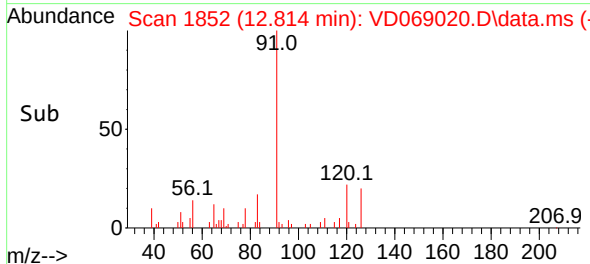
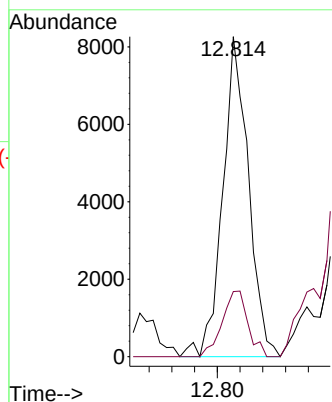
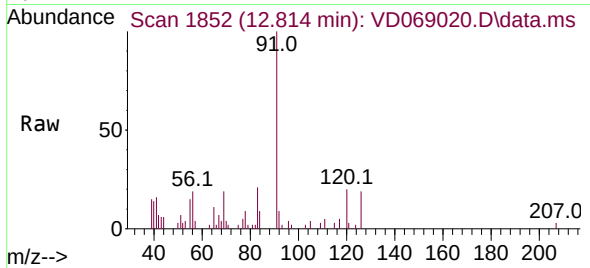




#78
n-propylbenzene
Concen: 1.42 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

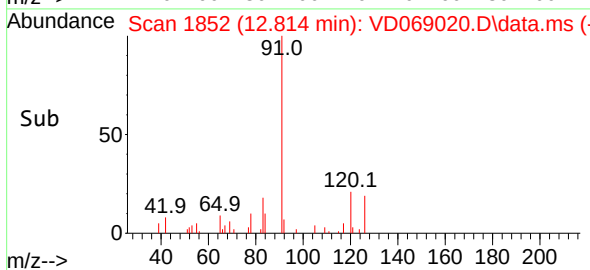
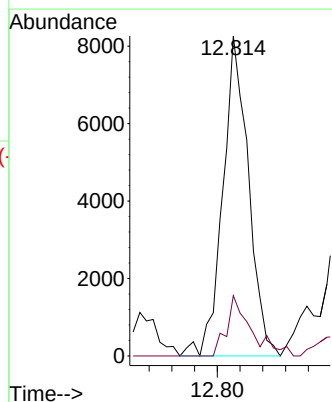
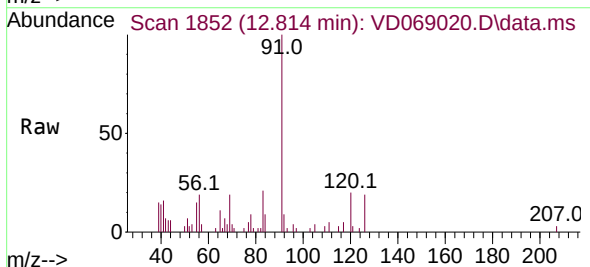
Instrument :
MSVOA_D
ClientSampled :

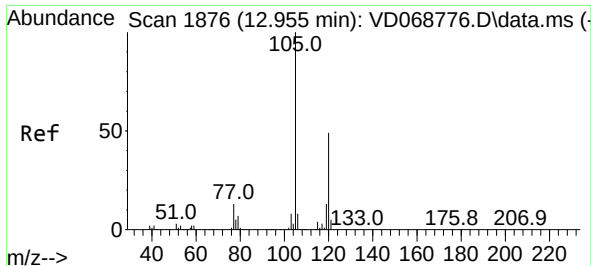
Tgt Ion: 91 Resp: 13003
Ion Ratio Lower Upper
91 100
120 20.5 11.4 34.2



#79
2-Chlorotoluene
Concen: 2.54 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. -0.088 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 91 Resp: 13003
Ion Ratio Lower Upper
91 100
126 17.9 17.1 51.3

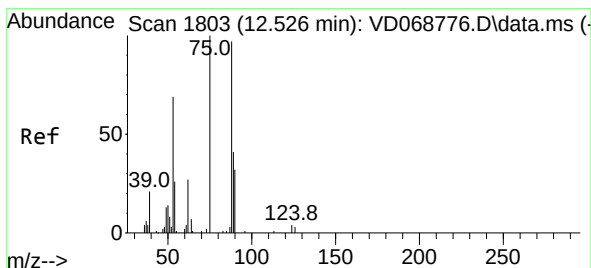
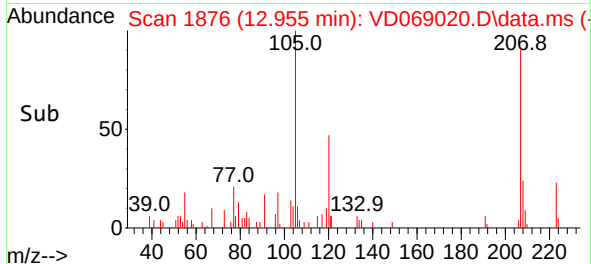
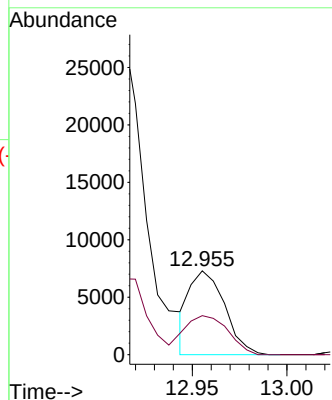
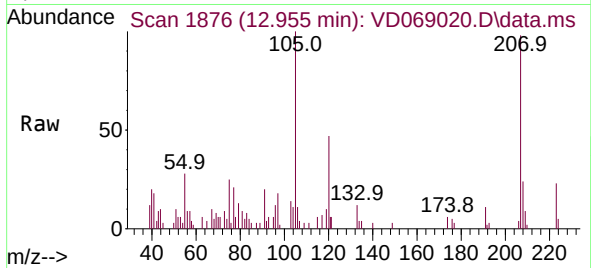




#80
1,3,5-Trimethylbenzene
Concen: 1.50 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

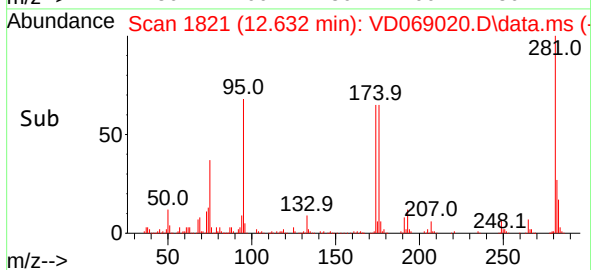
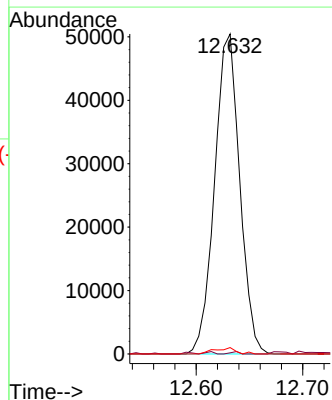
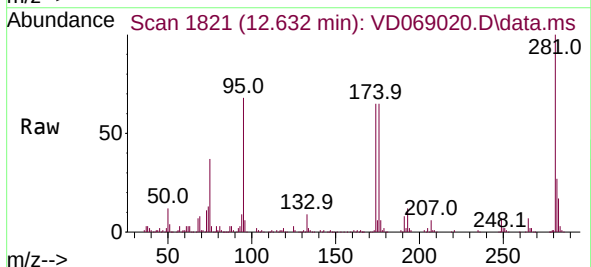
Instrument :
MSVOA_D
ClientSampleId :

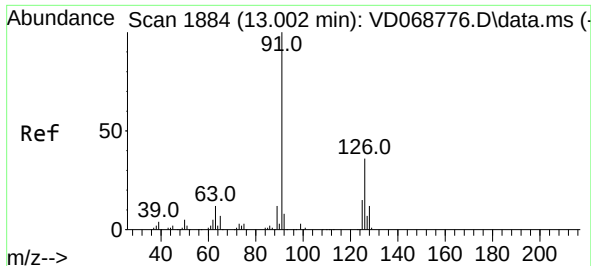
Tgt Ion:105 Resp: 9464
Ion Ratio Lower Upper
105 100
120 57.9 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 202.79 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 75 Resp: 82450
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 1.7 36.6 54.8#

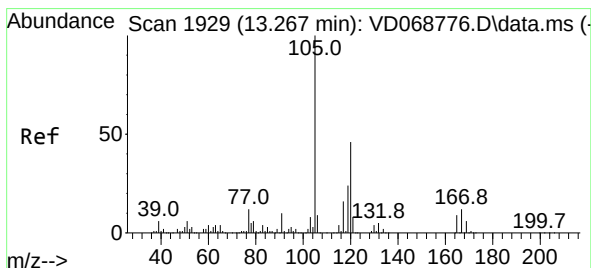
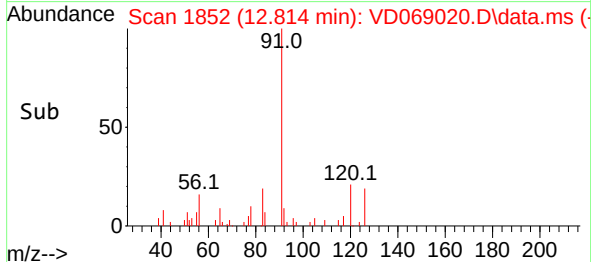
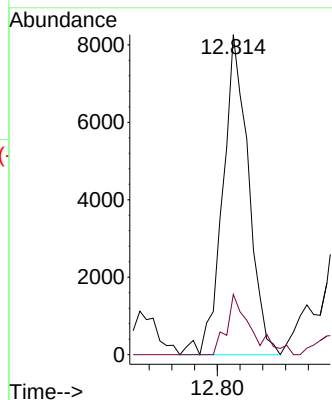
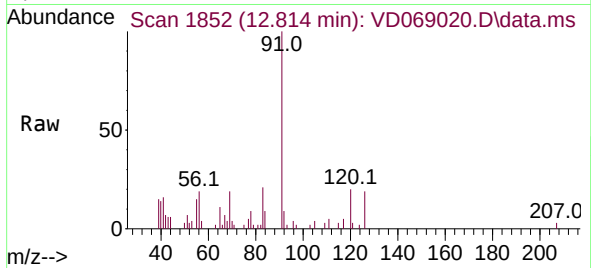




#82
4-Chlorotoluene
Concen: 2.40 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. -0.188 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

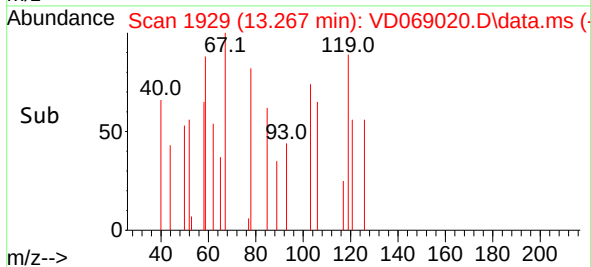
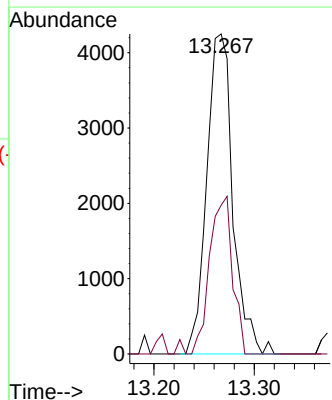
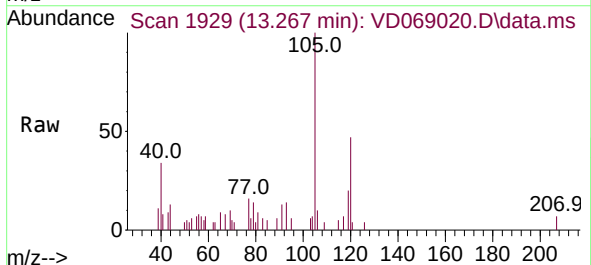
Instrument :
MSVOA_D
ClientSampleId :

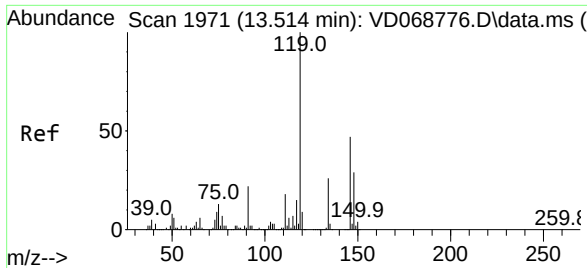
Tgt Ion: 91 Resp: 13003
Ion Ratio Lower Upper
91 100
126 17.9 17.2 51.5



#84
1,2,4-Trimethylbenzene
Concen: 1.21 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. -0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion: 105 Resp: 7690
Ion Ratio Lower Upper
105 100
120 42.9 22.6 67.7

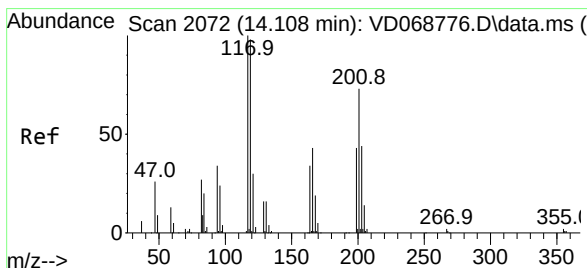
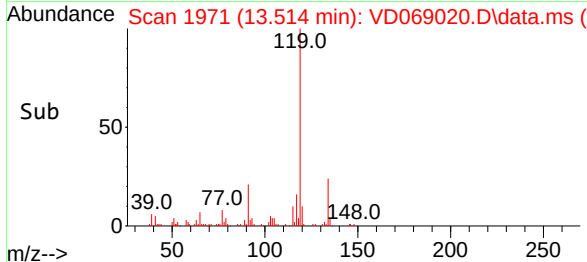
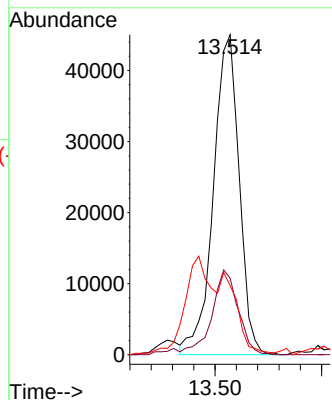
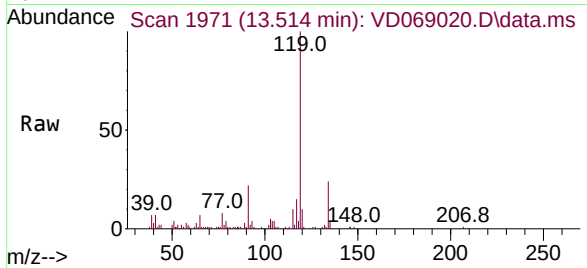




#86
p-Isopropyltoluene
Concen: 10.96 ug/l
RT: 13.514 min Scan# 1971
Delta R.T. 0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:119 Resp: 75570
Ion Ratio Lower Upper
119 100
134 28.1 13.3 39.9
91 0.0 11.1 33.1#



#90
Hexachloroethane
Concen: 1.95 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.000 min
Lab File: VD069020.D
Acq: 29 Apr 2021 16:06

Tgt Ion:117 Resp: 2683
Ion Ratio Lower Upper
117 100
201 10.5 35.4 106.2#

