

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121721\
 Data File : VD071385.D
 Acq On : 17 Dec 2021 17:18
 Operator : VA/SY
 Sample : M5142-01
 Misc : 4.96G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 19 01:53:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

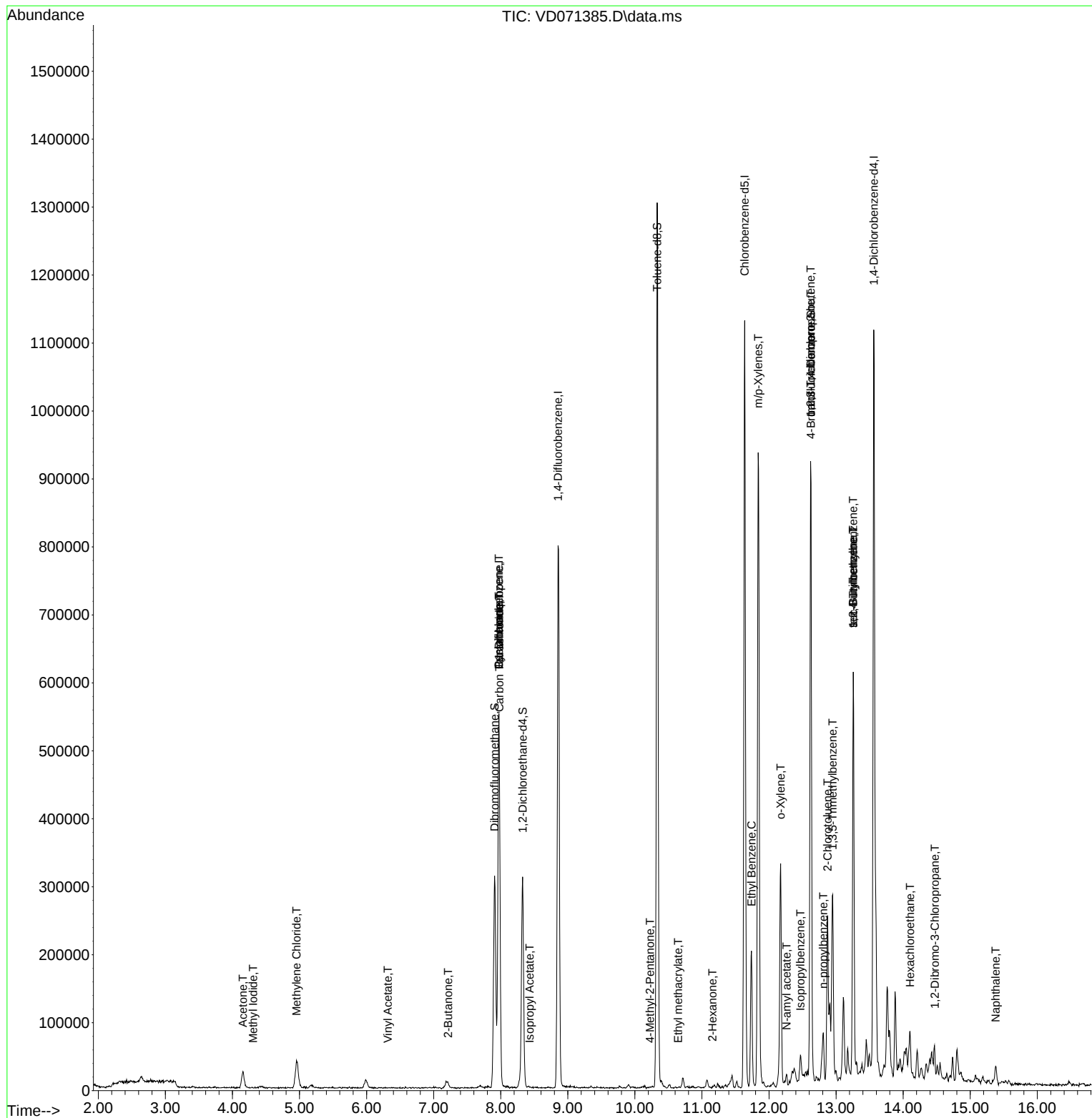
Internal Standards						
1) Pentafluorobenzene	7.973	168	373979	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.855	114	646598	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	583435	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	262465	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	240512	54.809	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.620%			
35) Dibromofluoromethane	7.908	113	215310	52.292	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.580%			
50) Toluene-d8	10.332	98	826536	52.749	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 105.500%			
62) 4-Bromofluorobenzene	12.626	95	270143	49.737	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 99.480%			
Target Compounds						Qvalue
10) Methyl Iodide	4.309	142	81	4.577	ug/l #	53
11) Tert butyl alcohol	5.167	59	2587	Below Cal	#	71
16) Acetone	4.156	43	43027	63.173	ug/l #	83
20) Methylene Chloride	4.956	84	27181	2.141	ug/l #	85
23) Vinyl Acetate	6.314	43	55	27.225	ug/l #	72
25) 2-Butanone	7.214	43	6420	32.588	ug/l #	88
31) Cyclohexane	7.973	56	11189	1.499	ug/l #	52
36) 1,1-Dichloropropene	7.973	75	35297	5.841	ug/l #	49
38) Carbon Tetrachloride	7.979	117	41300	6.933	ug/l #	16
41) Methacrylonitrile	7.479	41	61	Below Cal	#	73
43) Isopropyl Acetate	8.432	43	99	5.238	ug/l #	47
51) 4-Methyl-2-Pentanone	10.226	43	882	30.915	ug/l #	84
56) Ethyl methacrylate	10.644	69	107	5.993	ug/l #	1
59) 2-Hexanone	11.155	43	192	34.649	ug/l	94
67) Ethyl Benzene	11.738	91	139014	6.822	ug/l	92
68) m/p-Xylenes	11.838	106	274555	35.686	ug/l	98
69) o-Xylene	12.173	106	83096	11.492	ug/l	97
73) Isopropylbenzene	12.467	105	19410	1.021	ug/l	99
74) N-amyl acetate	12.261	43	3762	6.342	ug/l #	71
76) 1,2,3-Trichloropropane	12.620	75	153733	61.477	ug/l #	1
78) n-propylbenzene	12.808	91	51608	2.181	ug/l	99
79) 2-Chlorotoluene	12.873	91	19359	1.457	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.949	105	102745	6.556	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.620	75	153733	132.960	ug/l #	18
83) tert-Butylbenzene	13.255	119	40533	3.012	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.255	105	312876	20.449	ug/l	98
85) sec-Butylbenzene	13.255	105	312876	15.220	ug/l #	57
90) Hexachloroethane	14.102	117	3342	1.049	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.473	75	558	1.095	ug/l #	4
95) Naphthalene	15.379	128	22485	2.934	ug/l #	95

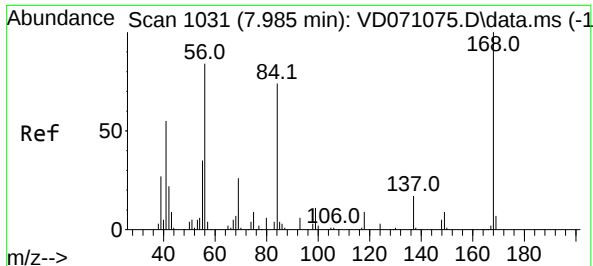
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 29 17:54:09 2021
Response via : Initial Calibration

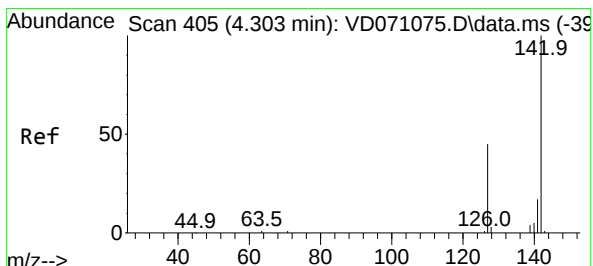
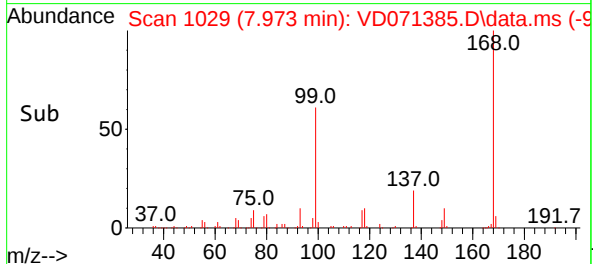
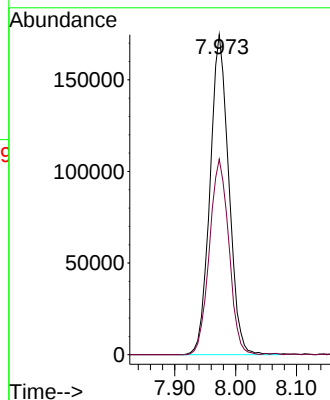
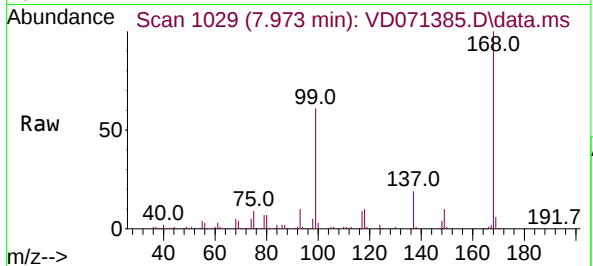




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1031
Delta R.T. -0.012 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

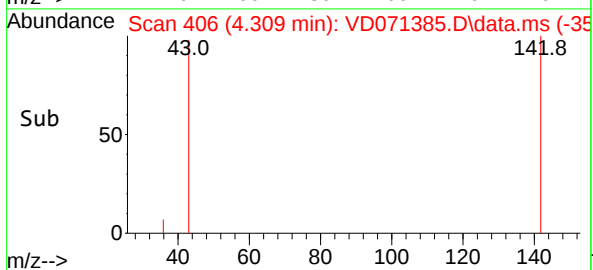
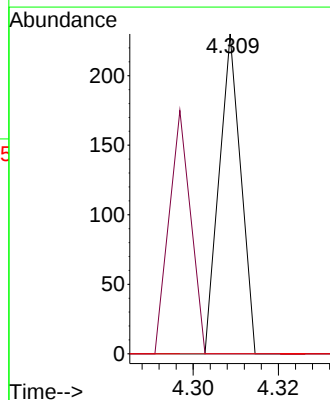
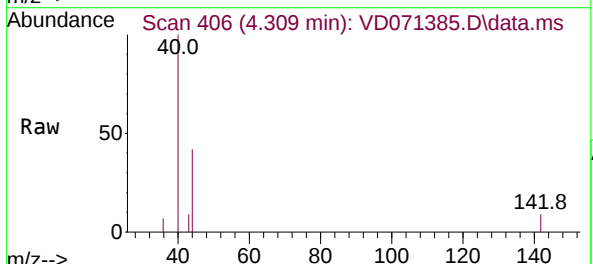
Instrument :
MSVOA_D
ClientSampleId :

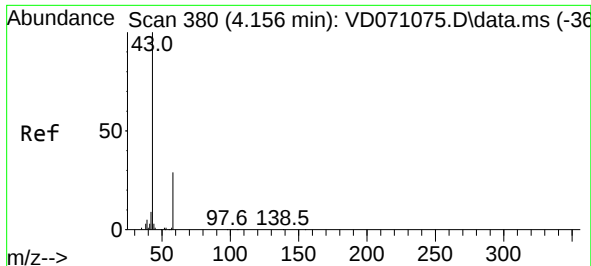
Tgt Ion:168 Resp: 373979
Ion Ratio Lower Upper
168 100
99 61.1 46.6 69.8



#10
Methyl Iodide
Concen: 4.577 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.006 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion:142 Resp: 81
Ion Ratio Lower Upper
142 100
127 76.5 35.0 52.4#
141 0.0 12.0 18.0#

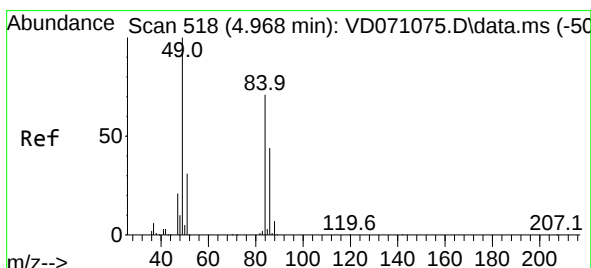
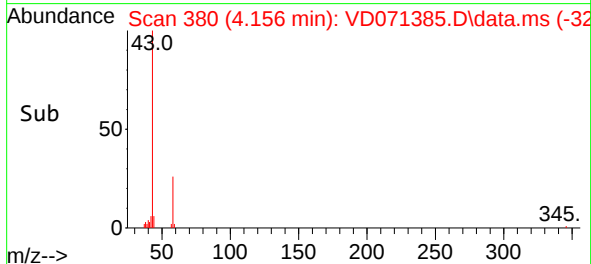
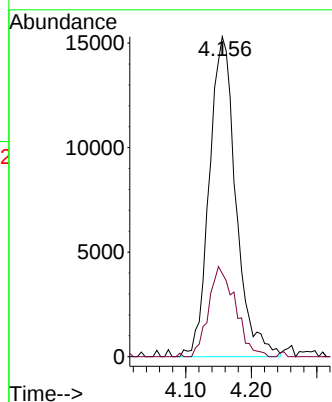
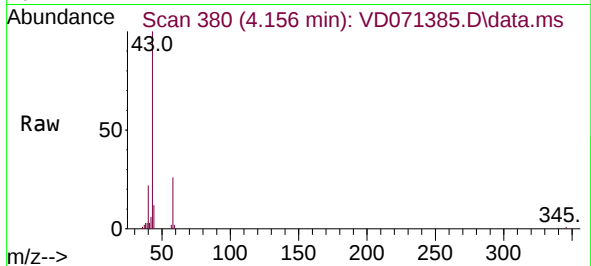




#16
Acetone
Concen: 63.173 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

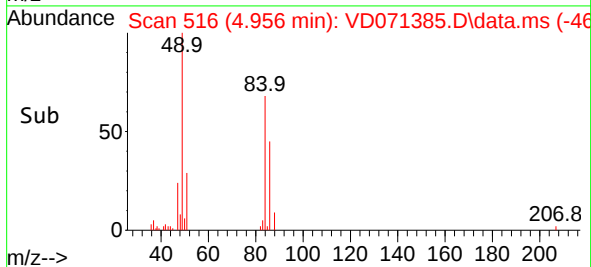
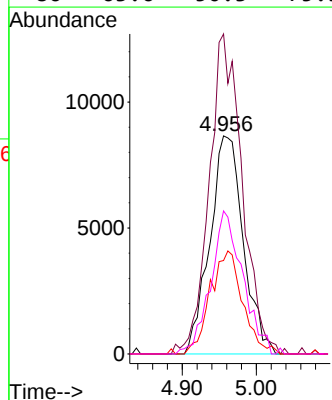
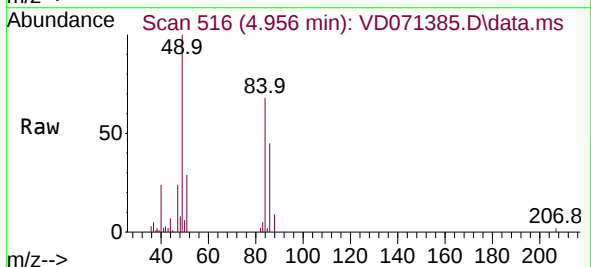
Instrument :
MSVOA_D
ClientSampleId :

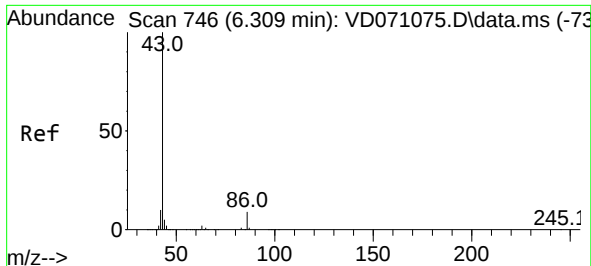
Tgt Ion: 43 Resp: 43027
Ion Ratio Lower Upper
43 100
58 24.9 27.8 41.8#



#20
Methylene Chloride
Concen: 2.141 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.012 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion: 84 Resp: 27181
Ion Ratio Lower Upper
84 100
49 146.7 95.8 143.6#
51 42.9 30.9 46.3
86 63.6 50.3 75.5

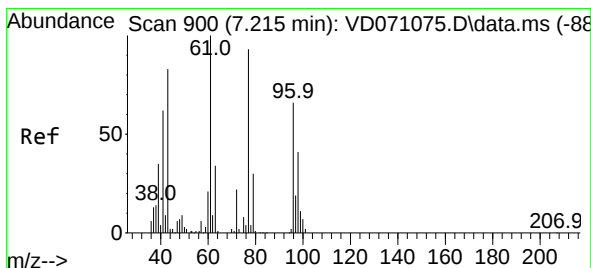
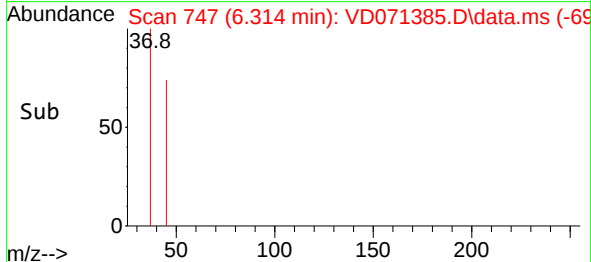
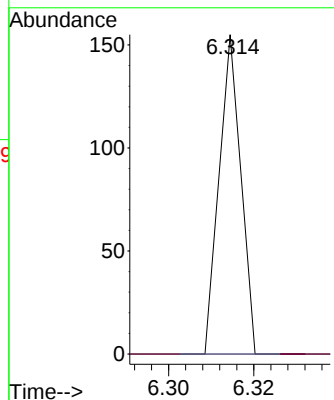
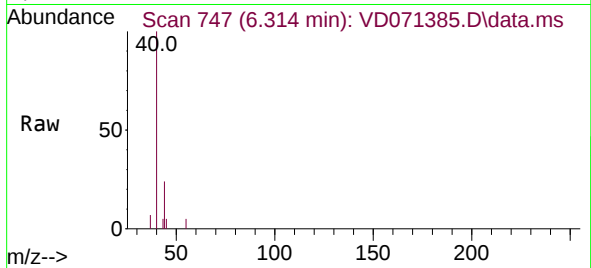




#23
 Vinyl Acetate
 Concen: 27.225 ug/l
 RT: 6.314 min Scan# 746
 Delta R.T. 0.005 min
 Lab File: VD071385.D
 Acq: 17 Dec 2021 17:18

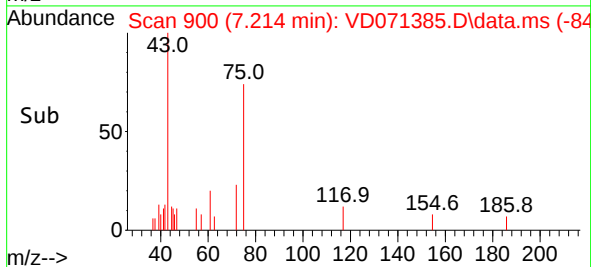
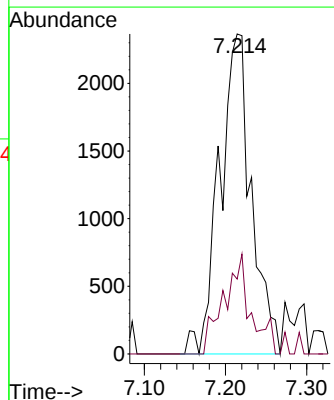
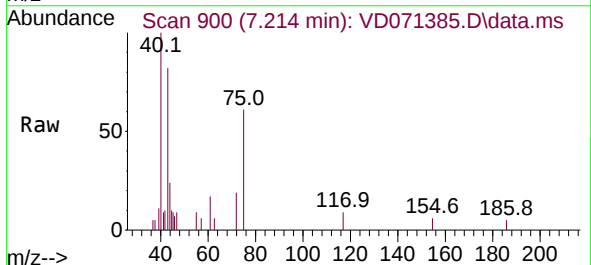
Instrument :
 MSVOA_D
 ClientSampleId :

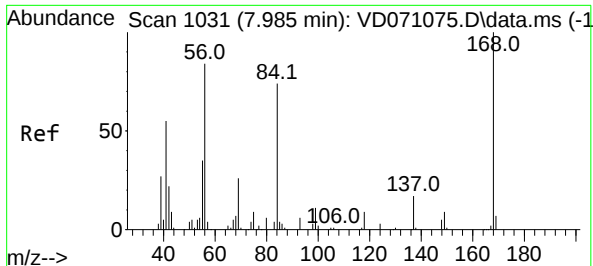
Tgt Ion: 43 Resp: 55
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 32.588 ug/l
 RT: 7.214 min Scan# 900
 Delta R.T. -0.001 min
 Lab File: VD071385.D
 Acq: 17 Dec 2021 17:18

Tgt Ion: 43 Resp: 6420
 Ion Ratio Lower Upper
 43 100
 72 23.4 23.8 35.6#





#31

Cyclohexane

Concen: 1.499 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

Instrument :

MSVOA_D

ClientSampleId :

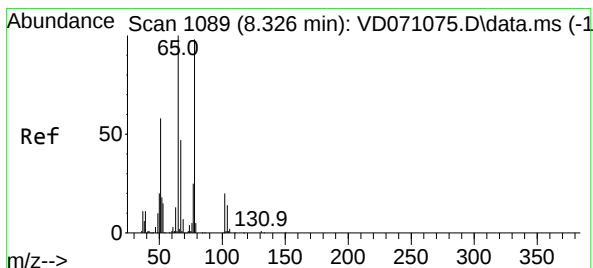
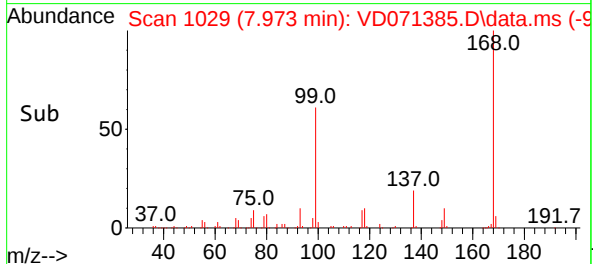
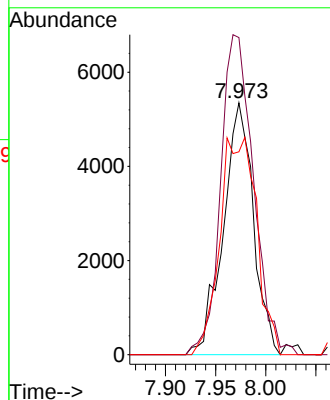
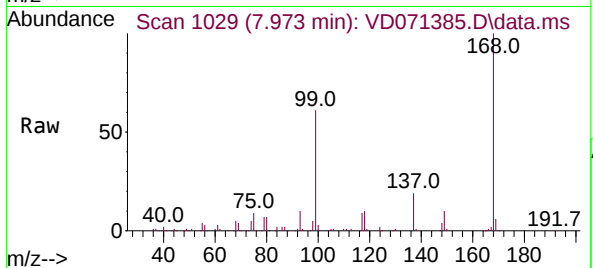
Tgt Ion: 56 Resp: 11189

Ion Ratio Lower Upper

56 100

69 125.9 25.9 38.9#

84 80.5 64.3 96.5



#33

1,2-Dichloroethane-d4

Concen: 54.809 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071385.D

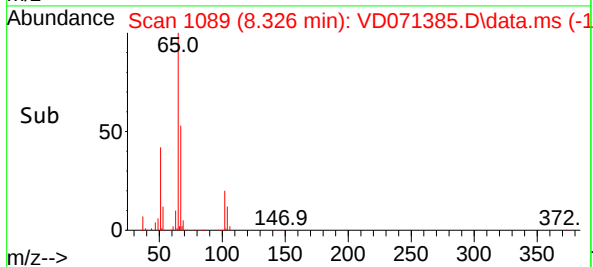
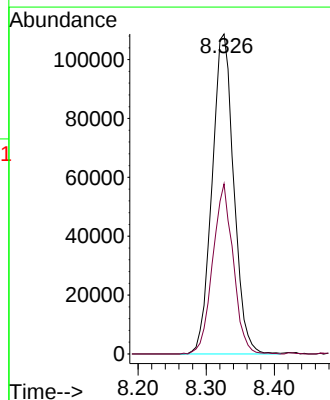
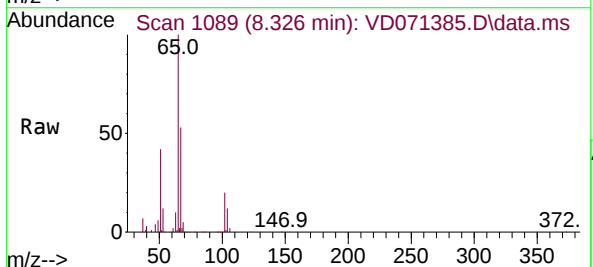
Acq: 17 Dec 2021 17:18

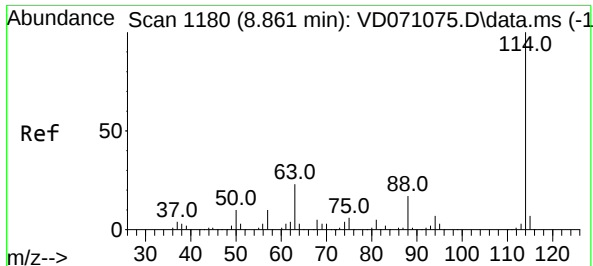
Tgt Ion: 65 Resp: 240512

Ion Ratio Lower Upper

65 100

67 50.4 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. -0.006 min

Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

Instrument :

MSVOA_D

ClientSampleId :

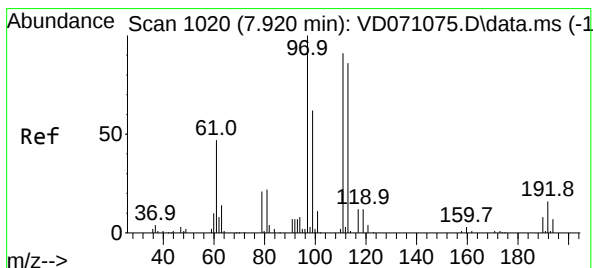
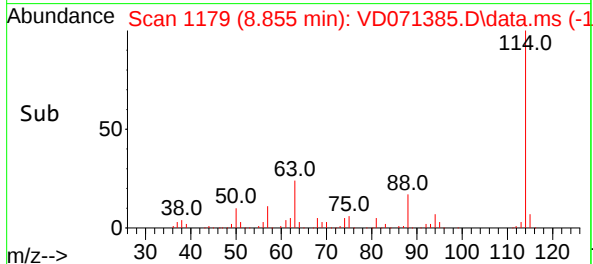
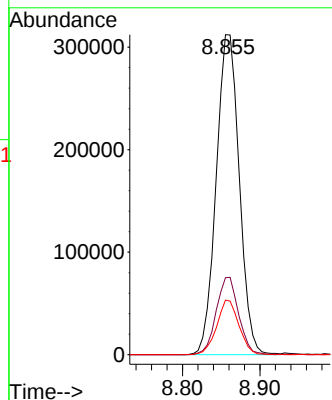
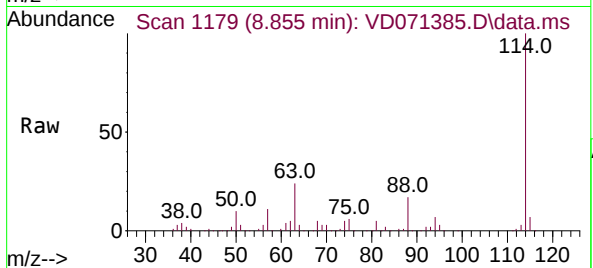
Tgt Ion:114 Resp: 646598

Ion Ratio Lower Upper

114 100

63 24.0 0.0 41.8

88 17.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 52.292 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.012 min

Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

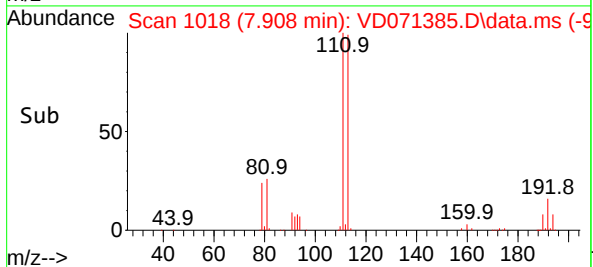
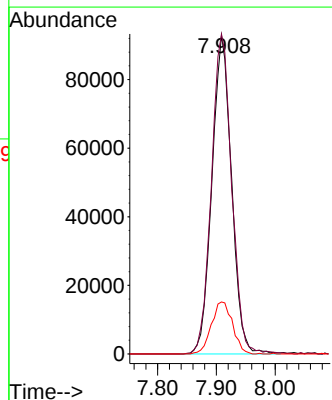
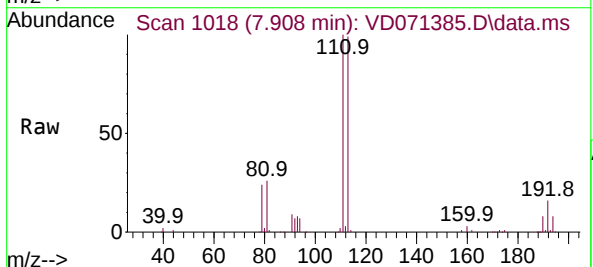
Tgt Ion:113 Resp: 215310

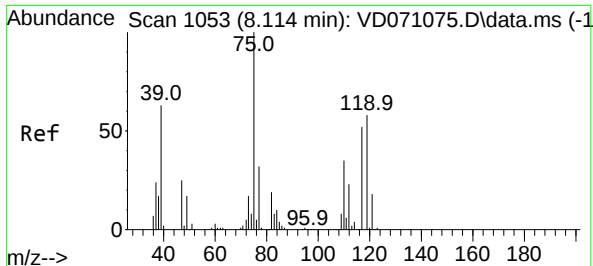
Ion Ratio Lower Upper

113 100

111 103.9 82.0 123.0

192 17.5 15.2 22.8





#36

1,1-Dichloropropene

Concen: 5.841 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

Instrument :

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ClientSampleId :

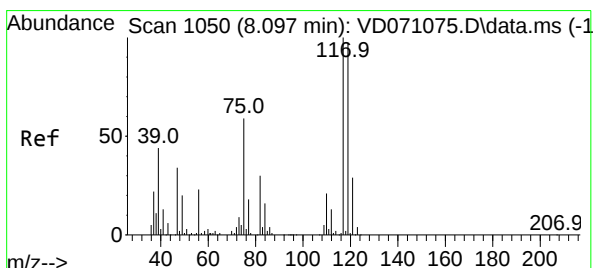
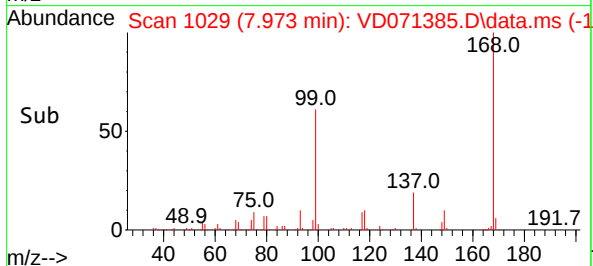
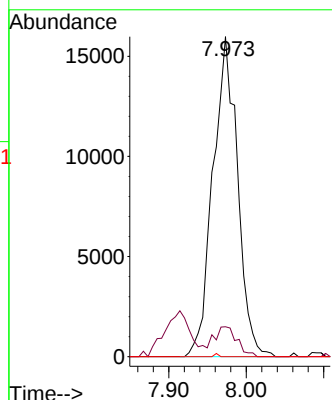
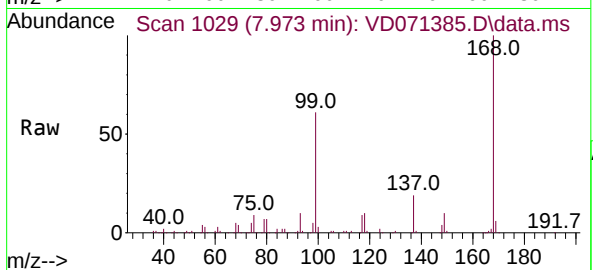
Tgt Ion: 75 Resp: 35297

Ion Ratio Lower Upper

75 100

110 8.6 17.8 53.4#

77 0.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.933 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.118 min

Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

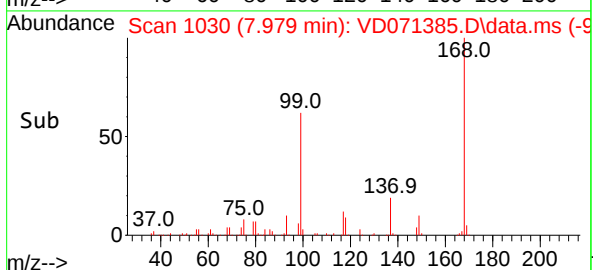
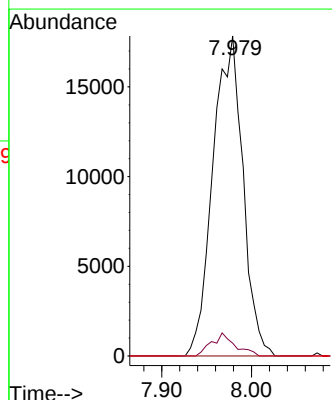
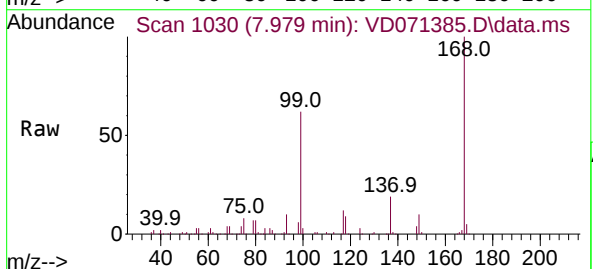
Tgt Ion: 117 Resp: 41300

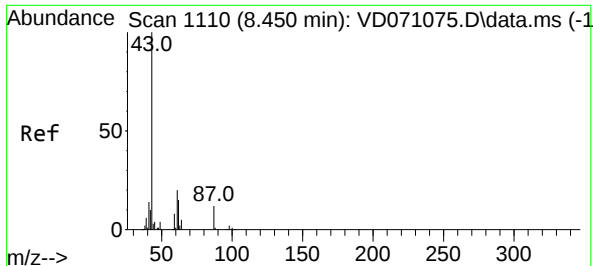
Ion Ratio Lower Upper

117 100

119 4.0 75.8 113.6#

121 0.0 23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.238 ug/l

RT: 8.432 min Scan# 1110

Delta R.T. -0.018 min

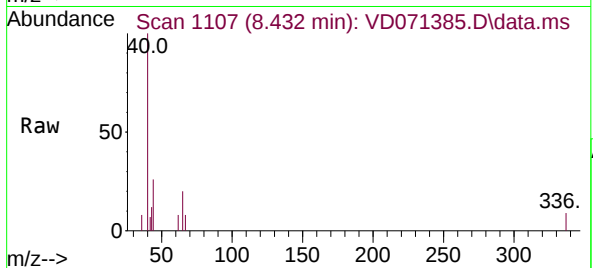
Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

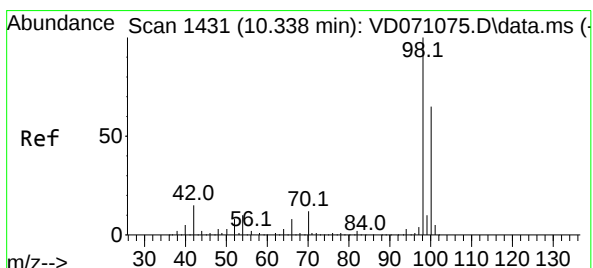
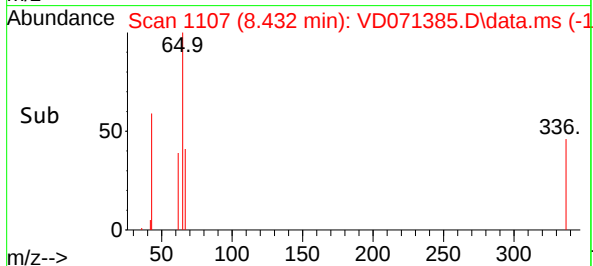
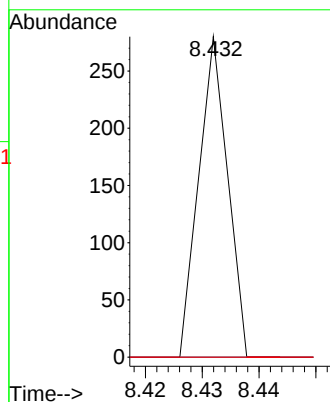
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	43	Resp:	99
Ion Ratio	100	Lower	Upper
43	100		
61	0.0	28.2	42.4#
87	0.0	10.7	16.1#



#50

Toluene-d8

Concen: 52.749 ug/l

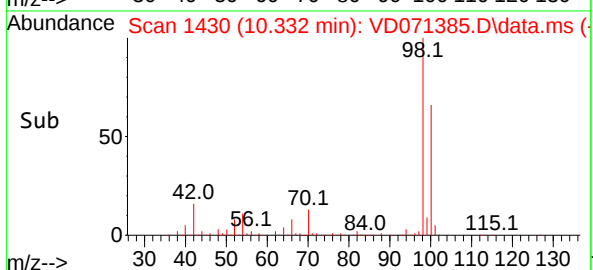
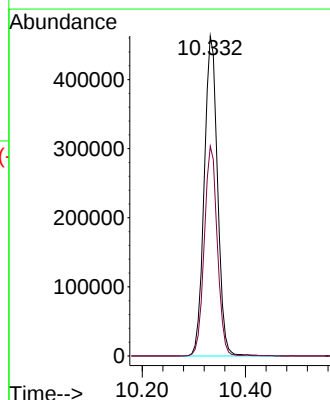
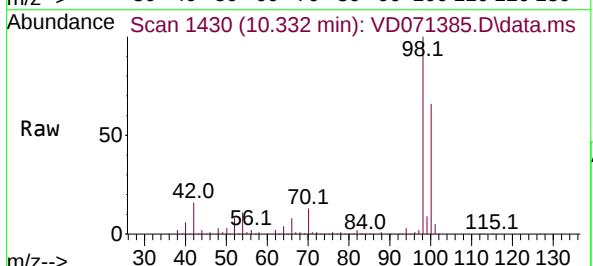
RT: 10.332 min Scan# 1430

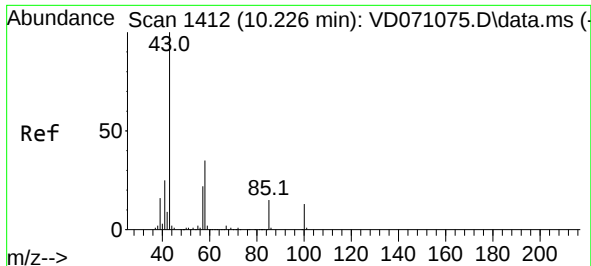
Delta R.T. -0.006 min

Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

Tgt Ion:	98	Resp:	826536
Ion Ratio	100	Lower	Upper
98	100		
100	64.2	51.8	77.6

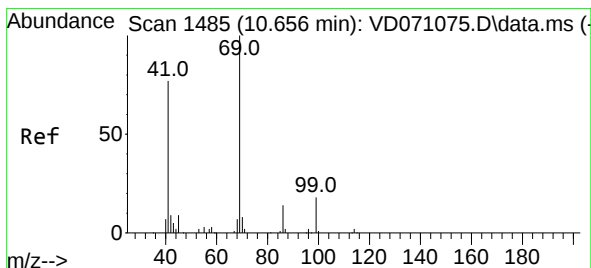
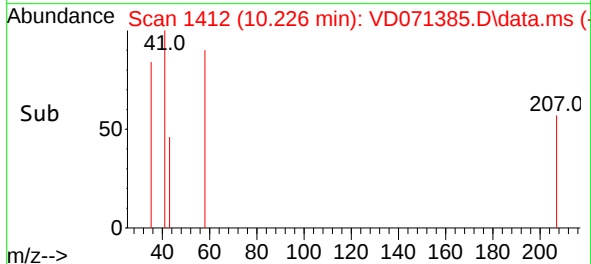
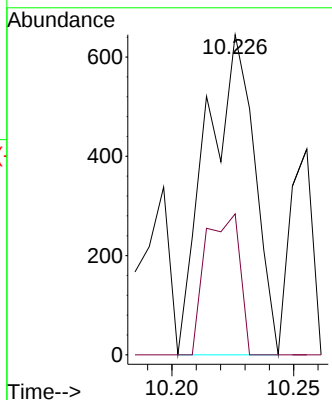
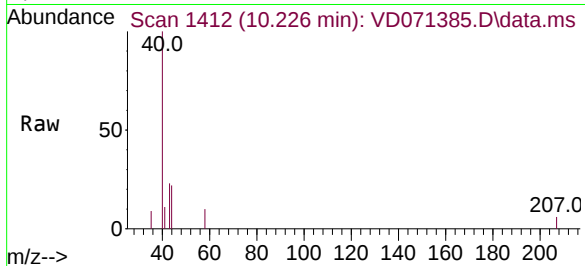




#51
4-Methyl-2-Pentanone
Concen: 30.915 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. -0.000 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

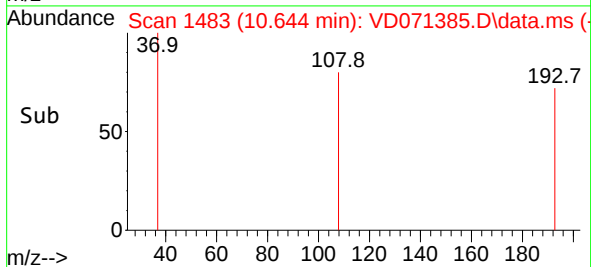
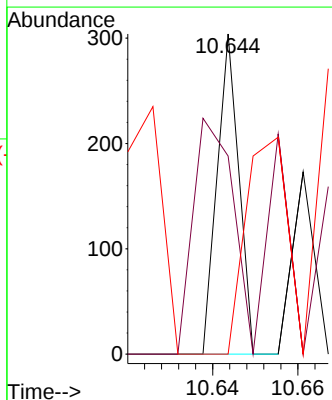
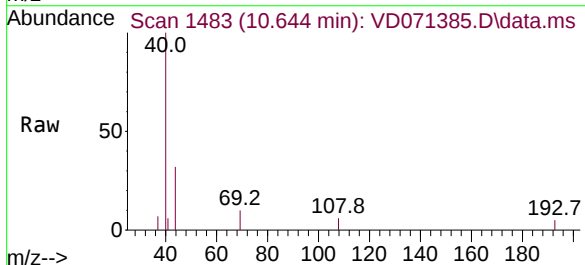
Instrument :
MSVOA_D
ClientSampleId :

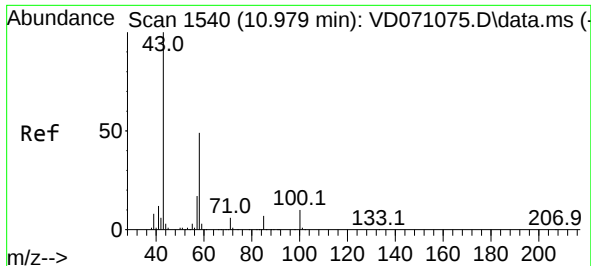
Tgt Ion: 43 Resp: 882
Ion Ratio Lower Upper
43 100
58 31.5 33.1 49.7#



#56
Ethyl methacrylate
Concen: 5.993 ug/l
RT: 10.644 min Scan# 1483
Delta R.T. -0.012 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion: 69 Resp: 107
Ion Ratio Lower Upper
69 100
41 135.5 50.2 75.2#
39 141.1 19.8 29.8#

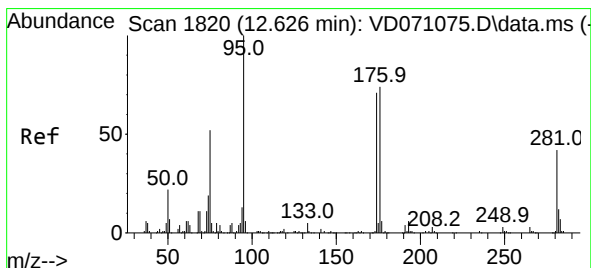
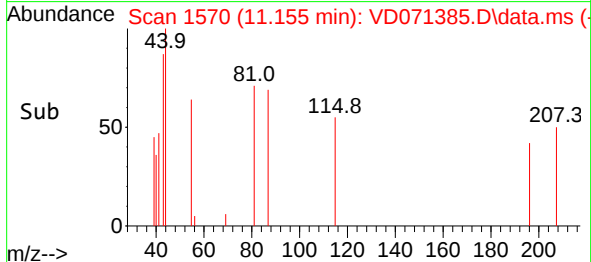
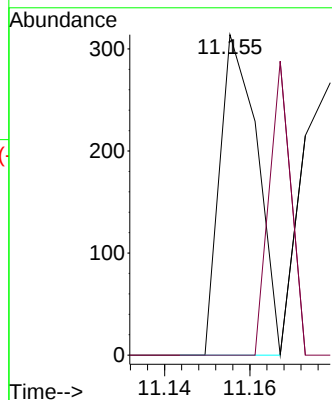
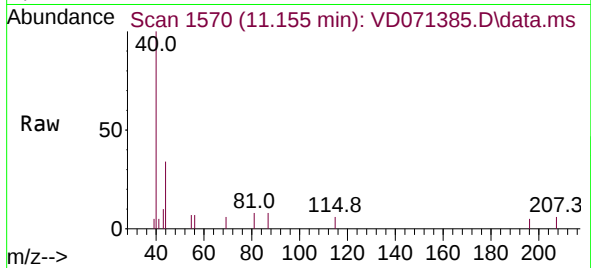




#59
2-Hexanone
Concen: 34.649 ug/l
RT: 11.155 min Scan# 1540
Delta R.T. 0.176 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

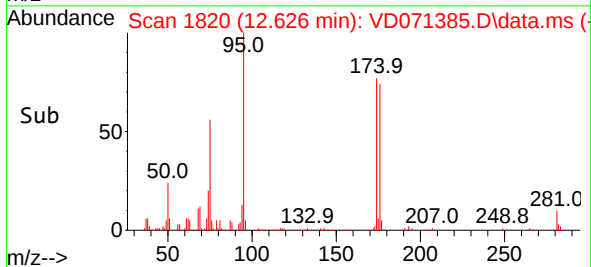
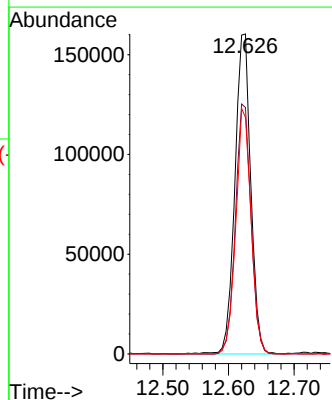
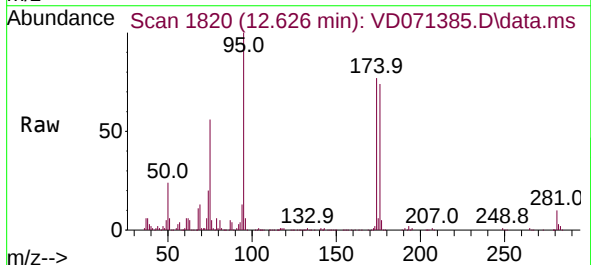
Instrument :
MSVOA_D
ClientSampleId :

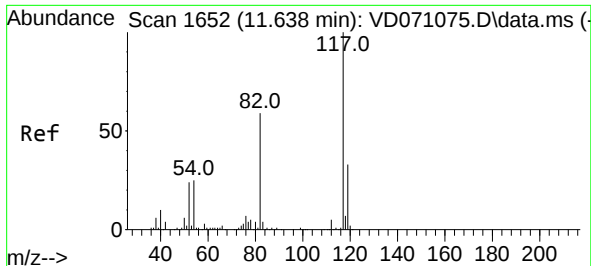
Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 53.1 28.7 86.1



#62
4-Bromofluorobenzene
Concen: 49.737 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

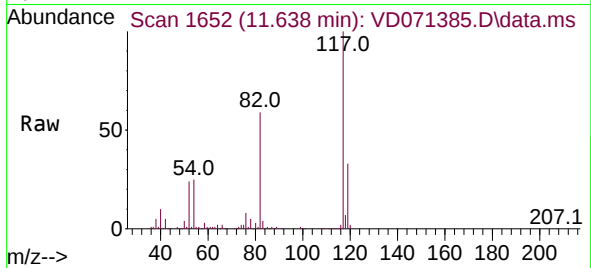
Tgt Ion: 95 Resp: 270143
Ion Ratio Lower Upper
95 100
174 76.8 0.0 159.4
176 73.7 0.0 154.0



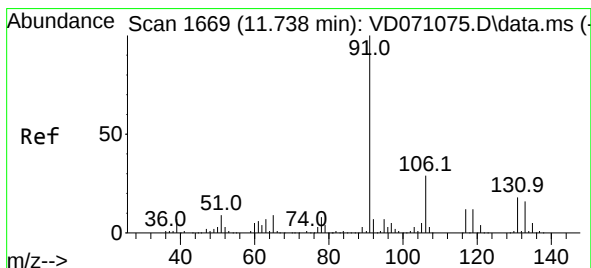
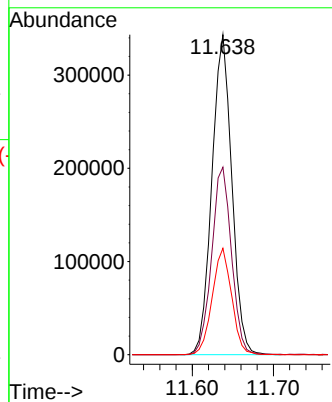
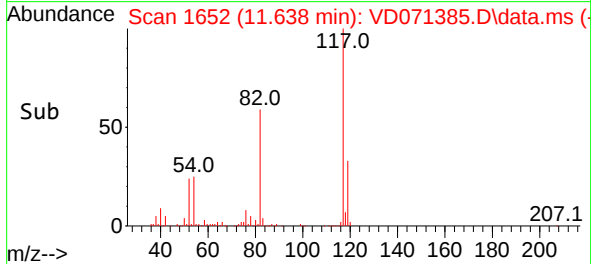


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Instrument :
MSVOA_D
ClientSampleId :

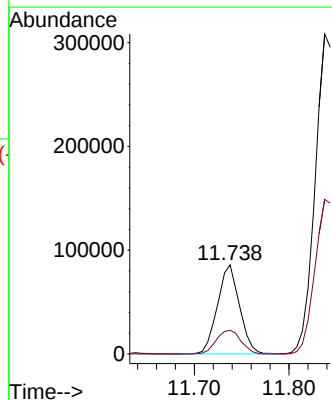
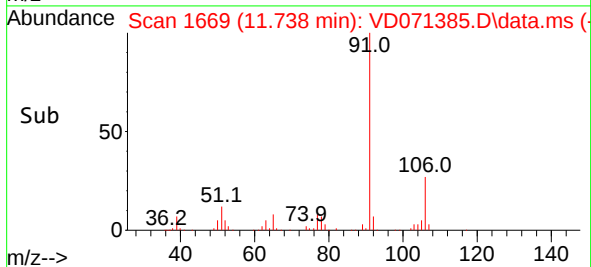
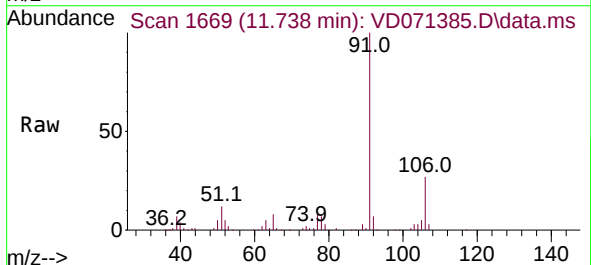


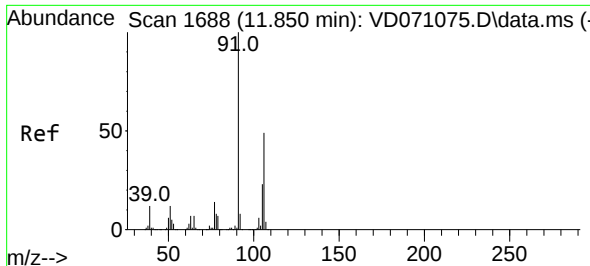
Tgt Ion:117 Resp: 583435
Ion Ratio Lower Upper
117 100
82 58.5 44.7 67.1
119 33.3 26.2 39.4



#67
Ethyl Benzene
Concen: 6.822 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion: 91 Resp: 139014
Ion Ratio Lower Upper
91 100
106 26.6 24.6 36.8

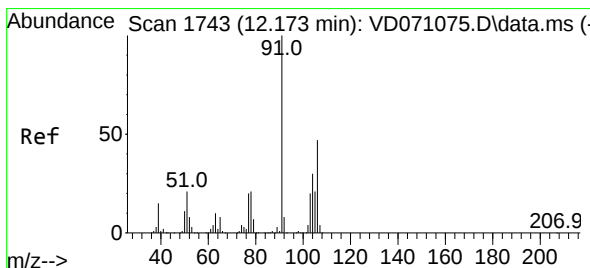
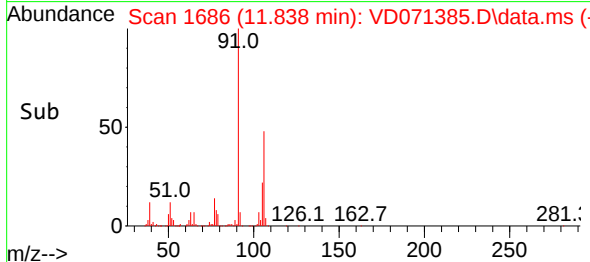
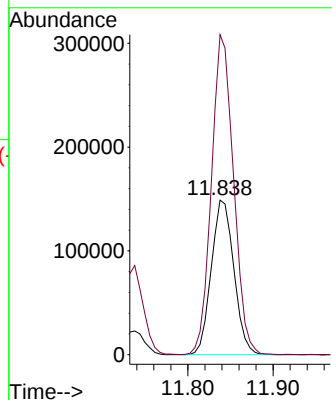
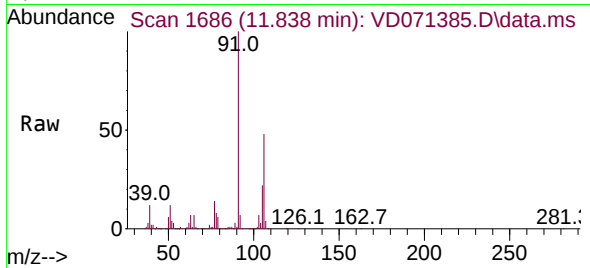




#68
m/p-Xylenes
Concen: 35.686 ug/l
RT: 11.838 min Scan# 1686
Delta R.T. -0.012 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

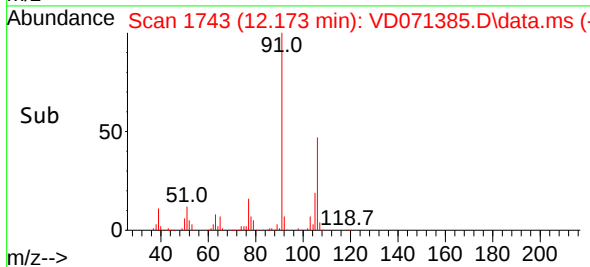
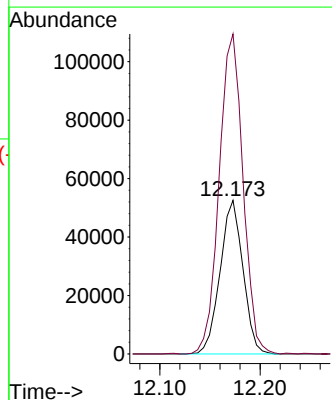
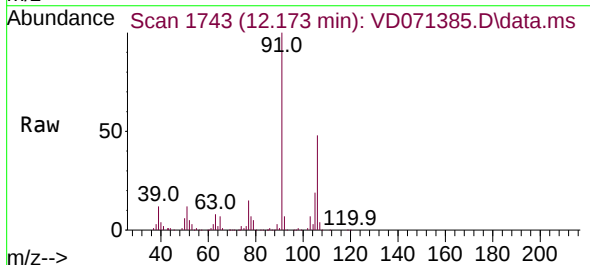
Instrument :
MSVOA_D
ClientSampleId :

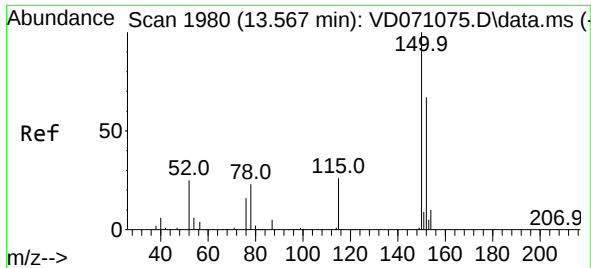
Tgt Ion:106 Resp: 274555
Ion Ratio Lower Upper
106 100
91 202.9 160.1 240.1



#69
o-Xylene
Concen: 11.492 ug/l
RT: 12.173 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion:106 Resp: 83096
Ion Ratio Lower Upper
106 100
91 217.0 106.3 319.0

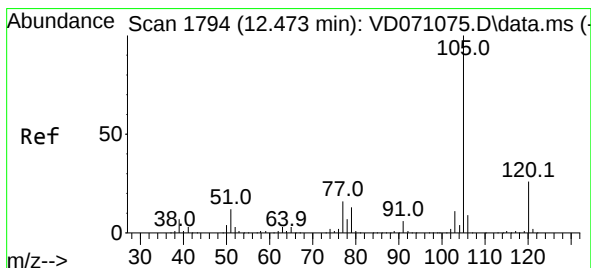
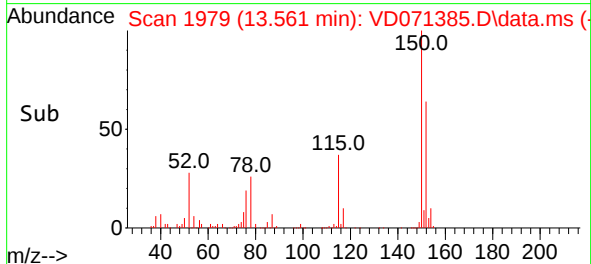
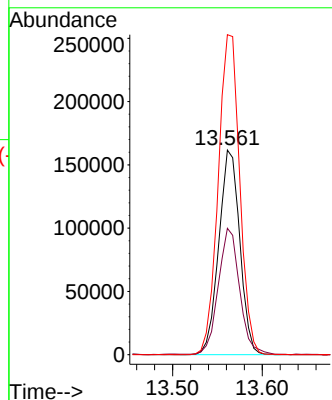
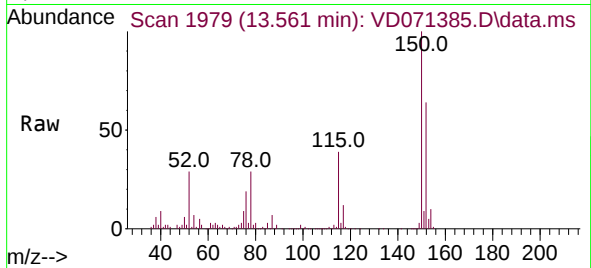




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

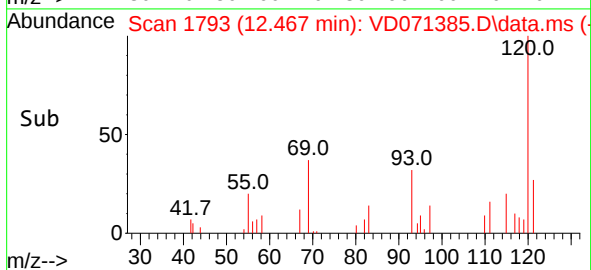
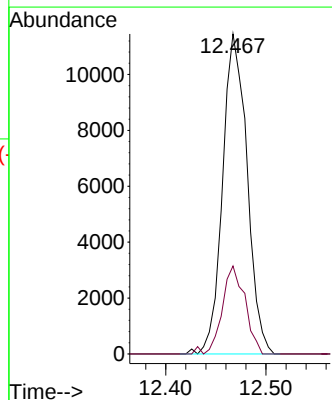
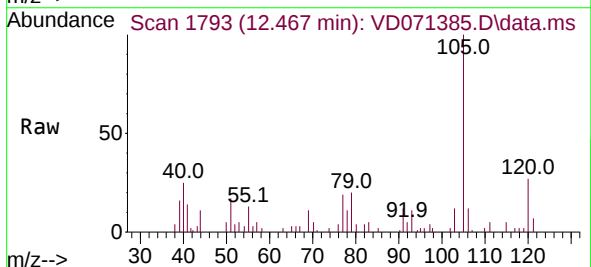
Instrument :
MSVOA_D
ClientSampleId :

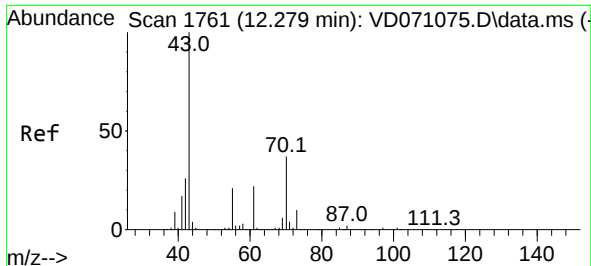
Tgt Ion:152 Resp: 262465
Ion Ratio Lower Upper
152 100
115 62.8 29.8 89.3
150 160.5 0.0 349.2



#73
Isopropylbenzene
Concen: 1.021 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion:105 Resp: 19410
Ion Ratio Lower Upper
105 100
120 25.6 13.2 39.5

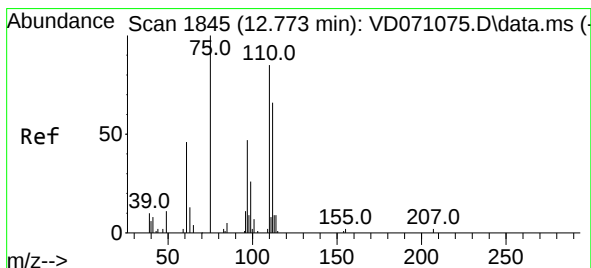
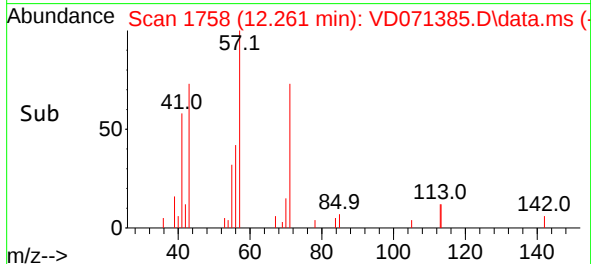
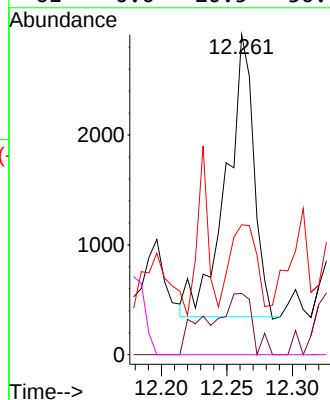
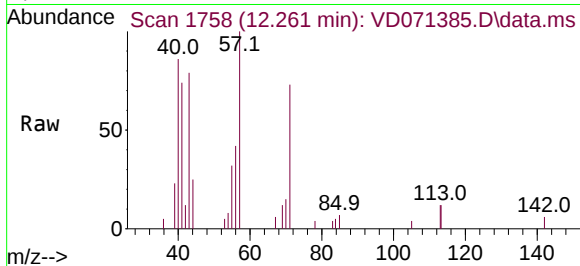




#74
N-amy1 acetate
Concen: 6.342 ug/l
RT: 12.261 min Scan# 1819
Delta R.T. -0.018 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

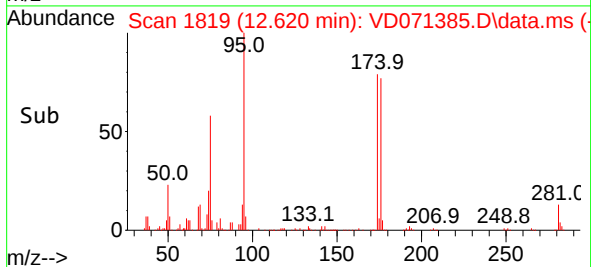
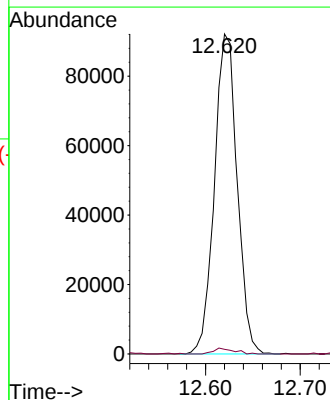
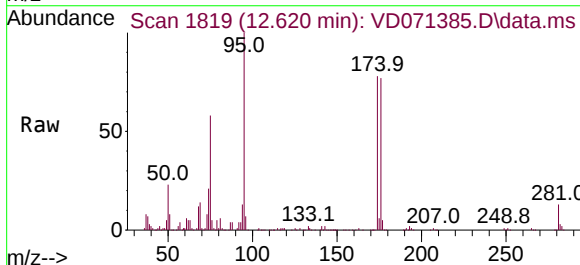
Instrument :
MSVOA_D
ClientSampleId :

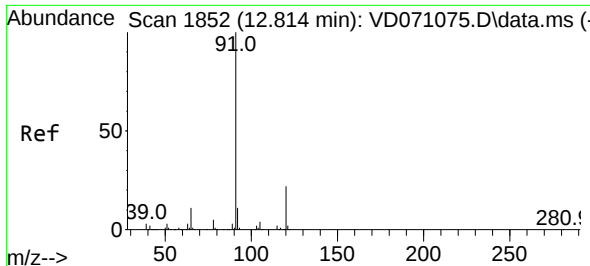
Tgt Ion: 43 Resp: 3762
Ion Ratio Lower Upper
43 100
70 23.4 36.6 55.0#
55 27.6 22.5 33.7
61 0.0 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 61.477 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion: 75 Resp: 153733
Ion Ratio Lower Upper
75 100
77 1.6 158.4 475.3#

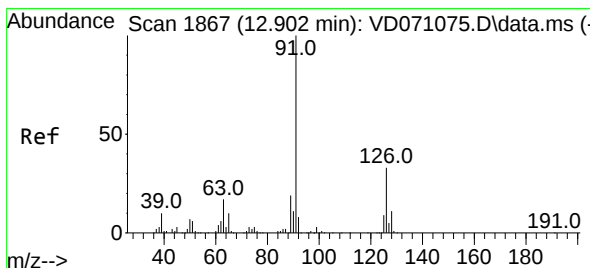
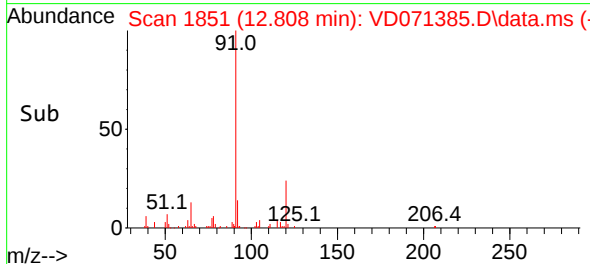
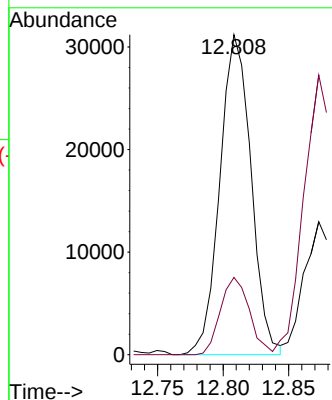
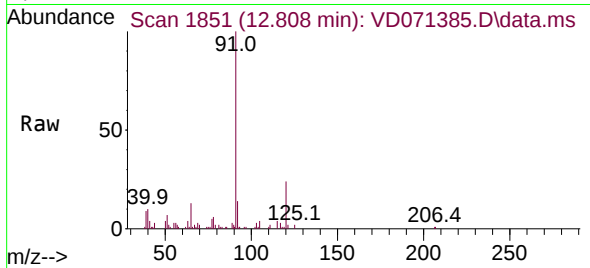




#78
n-propylbenzene
Concen: 2.181 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

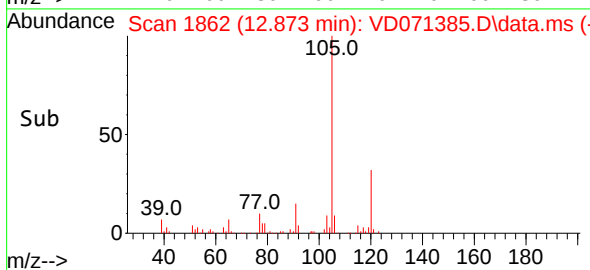
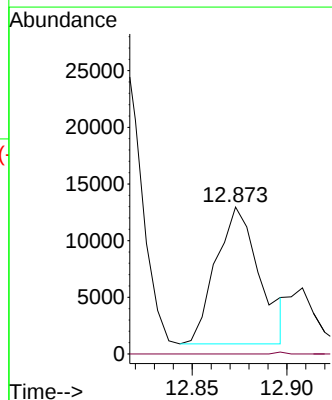
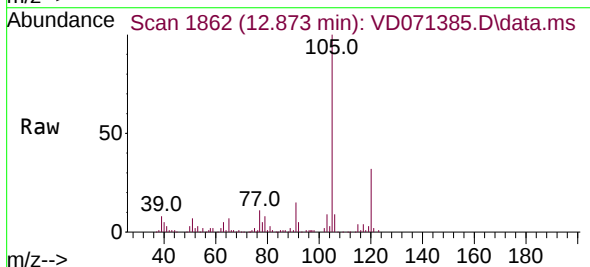
Instrument :
MSVOA_D
ClientSampleId :

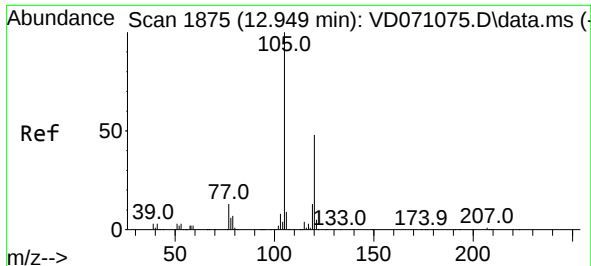
Tgt Ion: 91 Resp: 51608
Ion Ratio Lower Upper
91 100
120 22.4 10.9 32.9



#79
2-Chlorotoluene
Concen: 1.457 ug/l
RT: 12.873 min Scan# 1862
Delta R.T. -0.029 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion: 91 Resp: 19359
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.7#

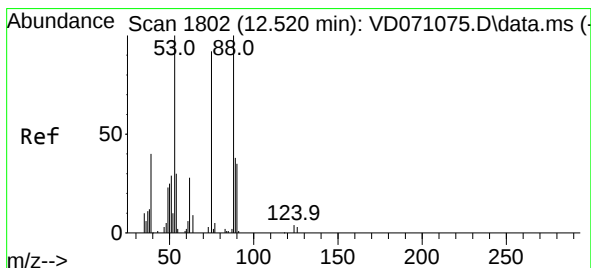
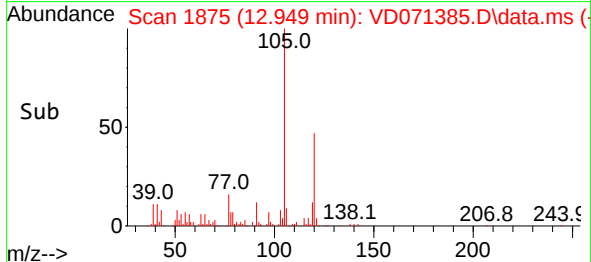
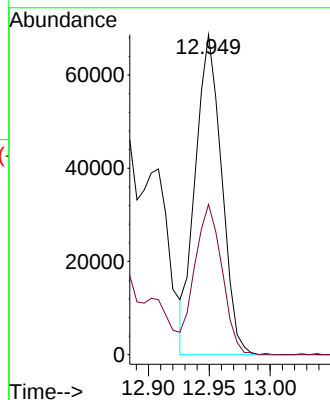
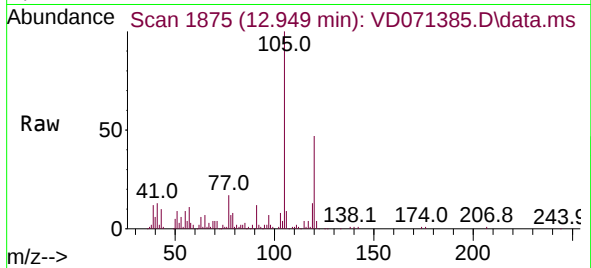




#80
 1,3,5-Trimethylbenzene
 Concen: 6.556 ug/l
 RT: 12.949 min Scan# 1875
 Delta R.T. 0.000 min
 Lab File: VD071385.D
 Acq: 17 Dec 2021 17:18

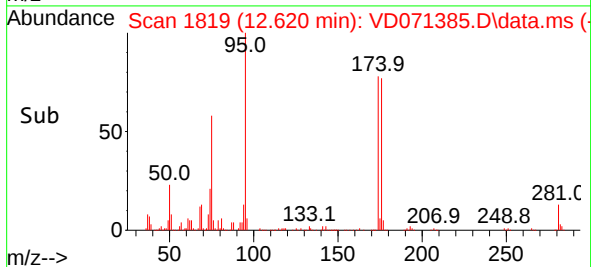
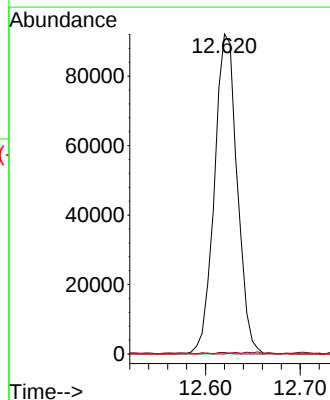
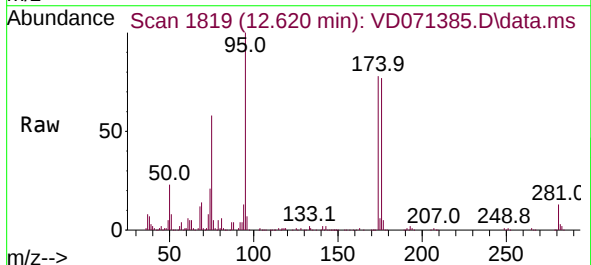
Instrument :
 MSVOA_D
 ClientSampleId :

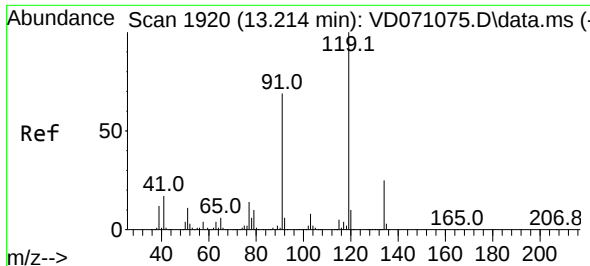
Tgt Ion:105 Resp: 102745
 Ion Ratio Lower Upper
 105 100
 120 48.7 24.6 73.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 132.960 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. 0.100 min
 Lab File: VD071385.D
 Acq: 17 Dec 2021 17:18

Tgt Ion: 75 Resp: 153733
 Ion Ratio Lower Upper
 75 100
 53 0.2 62.6 94.0#
 89 0.1 34.5 51.7#

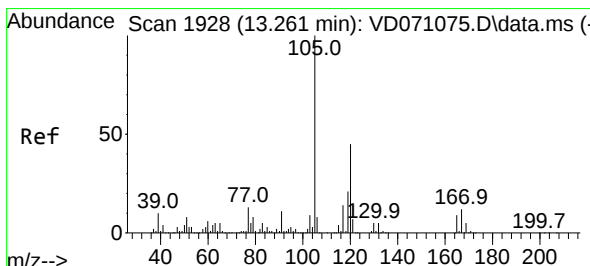
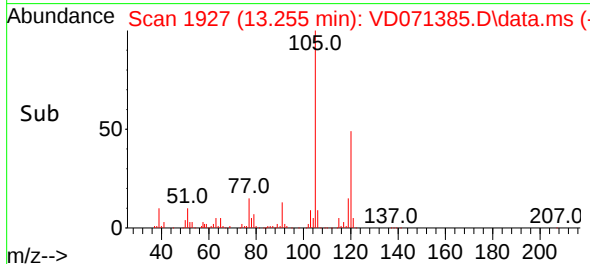
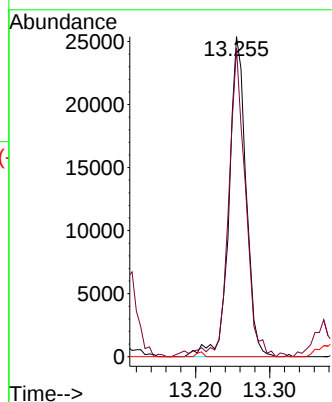
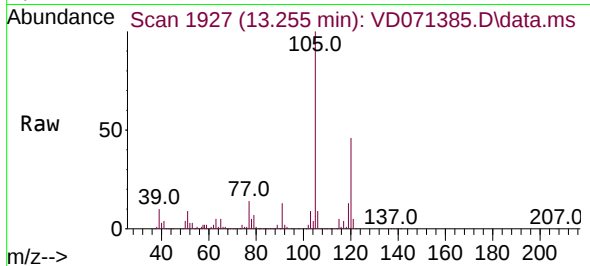




#83
tert-Butylbenzene
Concen: 3.012 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. 0.041 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

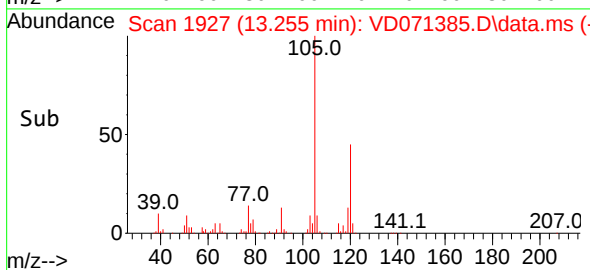
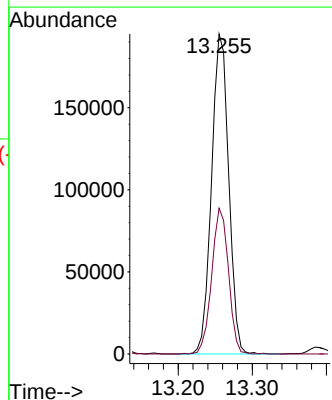
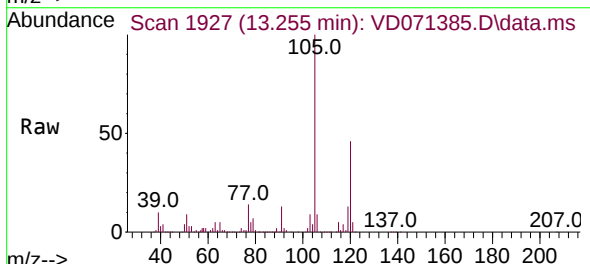
Instrument :
MSVOA_D
ClientSampleId :

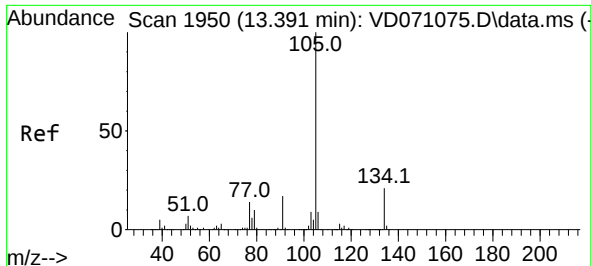
Tgt Ion:119 Resp: 40533
Ion Ratio Lower Upper
119 100
91 93.4 32.5 97.5
134 0.0 13.2 39.6#



#84
1,2,4-Trimethylbenzene
Concen: 20.449 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD071385.D
Acq: 17 Dec 2021 17:18

Tgt Ion:105 Resp: 312876
Ion Ratio Lower Upper
105 100
120 44.5 22.9 68.7

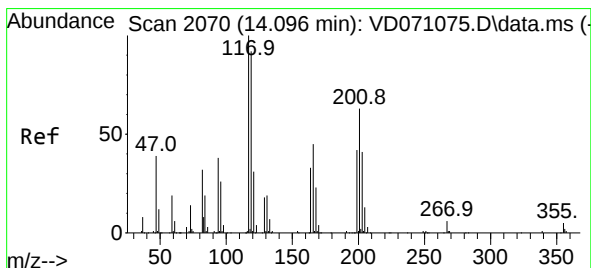
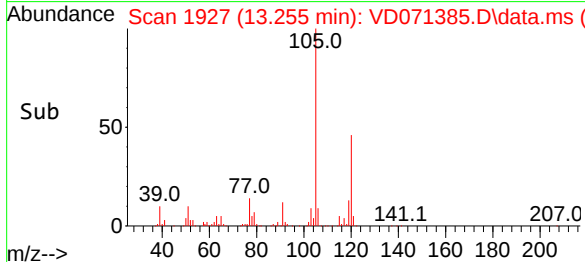
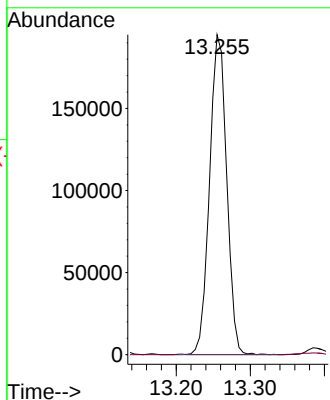
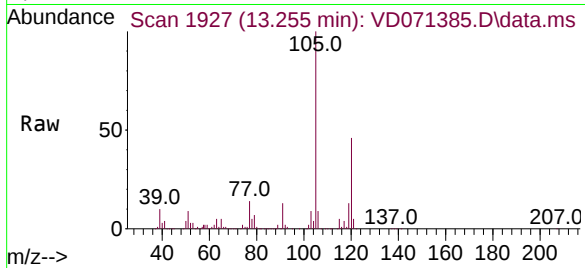




#85
 sec-Butylbenzene
 Concen: 15.220 ug/l
 RT: 13.255 min Scan# 1950
 Delta R.T. -0.136 min
 Lab File: VD071385.D
 Acq: 17 Dec 2021 17:18

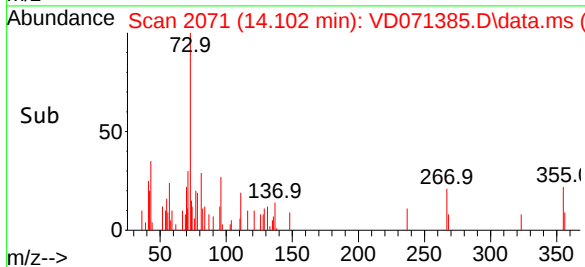
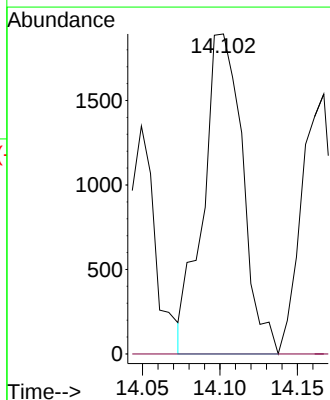
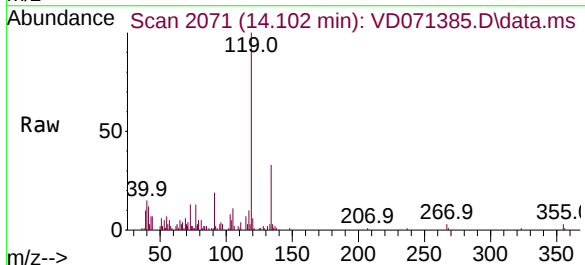
Instrument :
 MSVOA_D
 ClientSampleId :

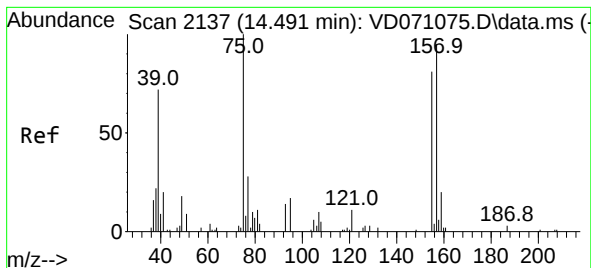
Tgt Ion:105 Resp: 312876
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 28.9#



#90
 Hexachloroethane
 Concen: 1.049 ug/l
 RT: 14.102 min Scan# 2071
 Delta R.T. 0.006 min
 Lab File: VD071385.D
 Acq: 17 Dec 2021 17:18

Tgt Ion:117 Resp: 3342
 Ion Ratio Lower Upper
 117 100
 201 0.0 36.0 108.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.095 ug/l

RT: 14.473 min Scan# 2137

Delta R.T. -0.018 min MSVOA_D

Lab File: VD071385.D

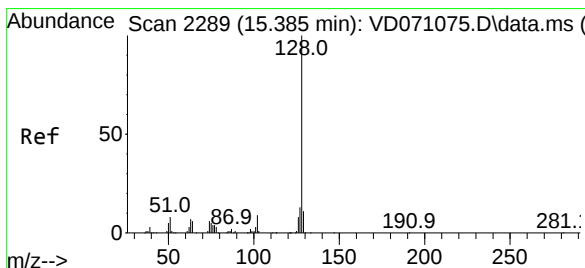
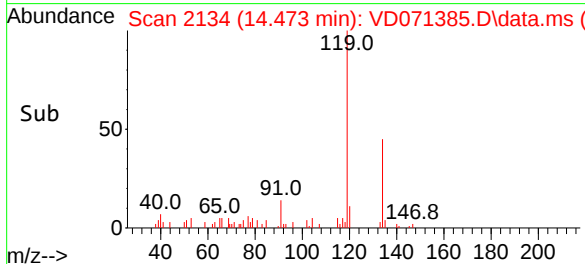
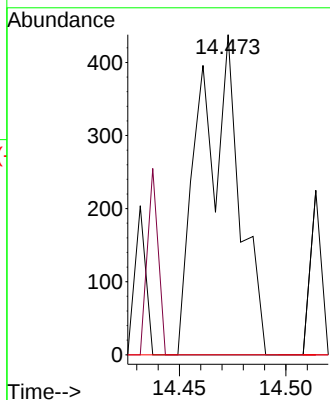
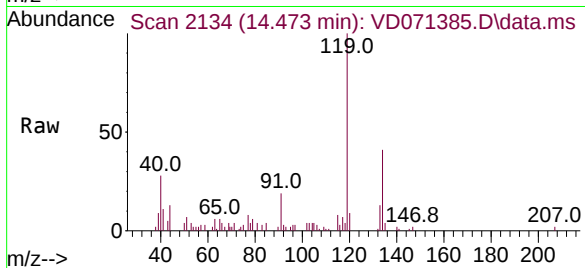
Acq: 17 Dec 2021 17:18

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 75	Resp: 558
Ion Ratio	Lower Upper
75 100	
155 0.0	40.0 120.0#
157 0.0	49.8 149.3#



#95

Naphthalene

Concen: 2.934 ug/l

RT: 15.379 min Scan# 2288

Delta R.T. -0.006 min

Lab File: VD071385.D

Acq: 17 Dec 2021 17:18

Tgt Ion: 128	Resp: 22485
Ion Ratio	Lower Upper
128 100	
127 16.2	10.7 16.1#
129 12.0	8.7 13.1

