

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD101921\
 Data File : VD070763.D
 Acq On : 19 Oct 2021 17:23
 Operator : VA/SY
 Sample : M4271-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-01-101821

Quant Time: Oct 20 04:41:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101521S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 18 08:32:03 2021
 Response via : Initial Calibration

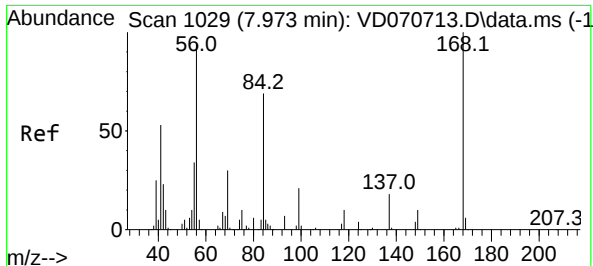
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	2337	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.850	114	4351	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.638	117	3036	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.549	152	497	50.000	ug/l	#-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	1630	58.887	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 117.780%			
35) Dibromofluoromethane	7.903	113	1572	56.426	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.860%			
50) Toluene-d8	10.332	98	5066	47.436	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 94.880%			
62) 4-Bromofluorobenzene	12.620	95	1140	31.001	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 62.000%			
Target Compounds						Qvalue
6) Chloroethane	2.920	64	54	2.064	ug/l #	41
8) Diethyl Ether	3.909	74	58	4.635	ug/l #	4
14) Allyl chloride	4.597	41	59	1.227	ug/l #	26
15) Acrylonitrile	5.309	53	57	8.651	ug/l #	18
16) Acetone	4.138	43	85	12.732	ug/l #	40
17) Carbon Disulfide	4.426	76	148	1.599	ug/l #	74
19) Methyl tert-butyl Ether	5.467	73	65	1.184	ug/l #	53
20) Methylene Chloride	5.020	84	60	Below Cal	#	9
21) trans-1,2-Dichloroethene	5.473	96	70	2.402	ug/l #	1
23) Vinyl Acetate	6.397	43	87	17.968	ug/l #	69
25) 2-Butanone	7.456	43	64	7.760	ug/l #	43
29) Tetrahydrofuran	7.597	42	73	14.458	ug/l #	29
36) 1,1-Dichloropropene	7.991	75	147	3.033	ug/l #	42
37) Ethyl Acetate	7.456	43	64	3.187	ug/l #	65
38) Carbon Tetrachloride	7.961	117	206	4.437	ug/l #	12
41) Methacrylonitrile	7.526	41	95	9.154	ug/l #	16
43) Isopropyl Acetate	8.355	43	58	1.514	ug/l #	46
48) Methyl methacrylate	9.526	41	125	6.661	ug/l #	11
51) 4-Methyl-2-Pentanone	10.332	43	60	2.972	ug/l #	32
59) 2-Hexanone	11.120	43	57	4.011	ug/l #	20
76) 1,2,3-Trichloropropane	12.620	75	583	135.775	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	583	297.389	ug/l #	17
86) p-Isopropyltoluene	13.561	119	89	2.847	ug/l #	51
95) Naphthalene	15.226	128	120	11.536	ug/l #	69

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

Quant Time: Oct 20 04:41:52 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101521S.M
Quant Title : SW846 8260
QLast Update : Mon Oct 18 08:32:03 2021
Response via : Initial Calibration

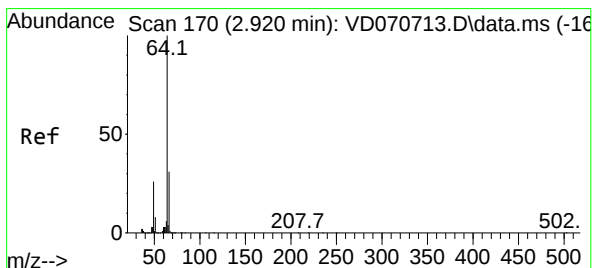
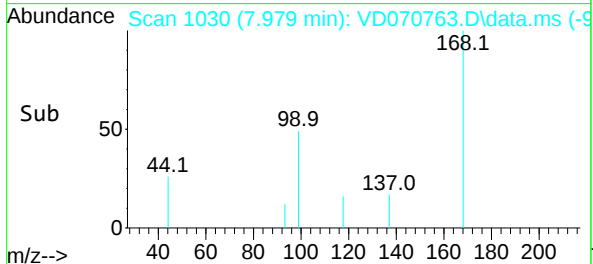
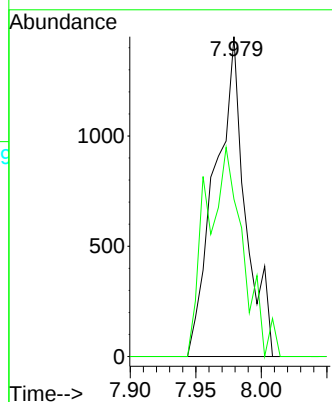
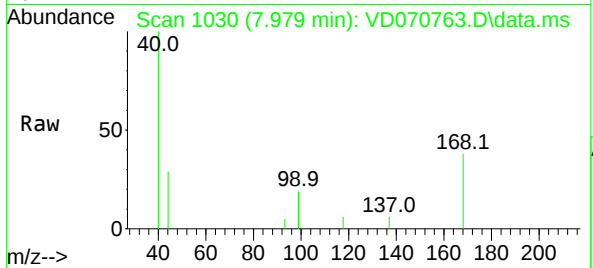




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.006 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

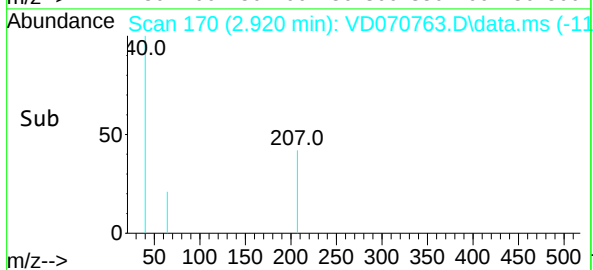
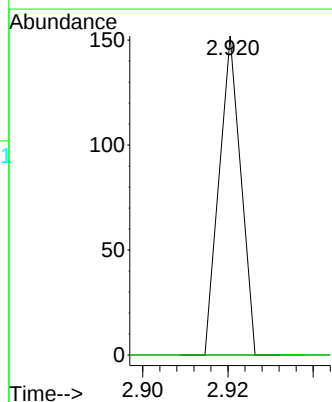
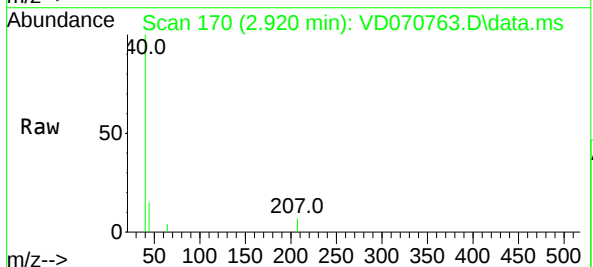
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

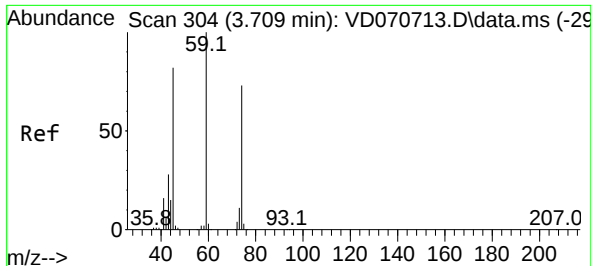
Tgt Ion:168 Resp: 2337
Ion Ratio Lower Upper
168 100
99 49.2 51.4 77.0#



#6
Chloroethane
Concen: 2.064 ug/l
RT: 2.920 min Scan# 170
Delta R.T. 0.000 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 64 Resp: 54
Ion Ratio Lower Upper
64 100
66 0.0 26.6 40.0#

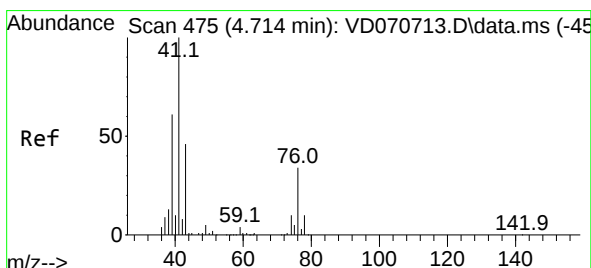
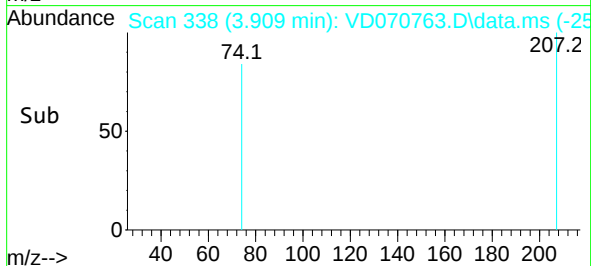
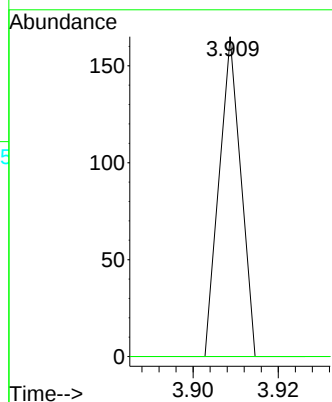
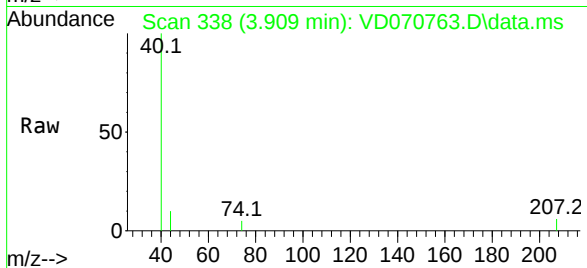




#8
Diethyl Ether
Concen: 4.635 ug/l
RT: 3.909 min Scan# 338
Delta R.T. 0.200 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

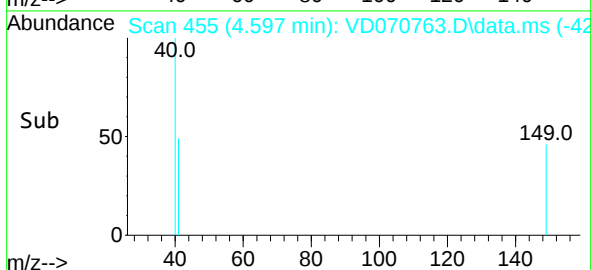
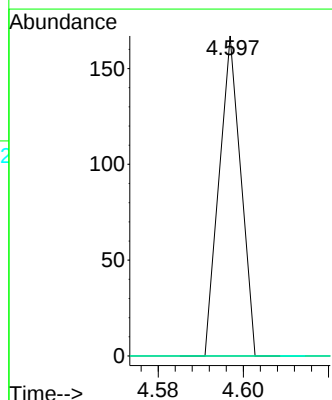
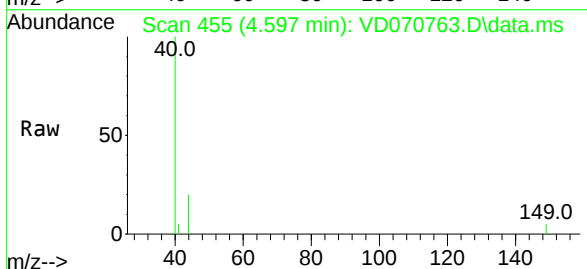
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

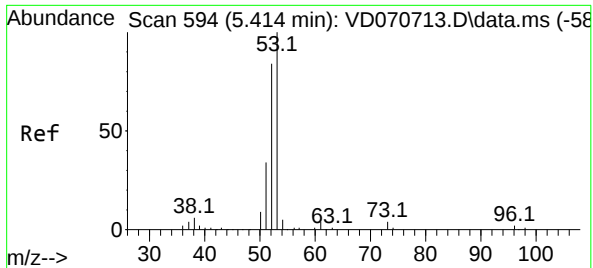
Tgt Ion: 74 Resp: 58
Ion Ratio Lower Upper
74 100
45 0.0 45.1 135.5#



#14
Allyl chloride
Concen: 1.227 ug/l
RT: 4.597 min Scan# 455
Delta R.T. -0.118 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 41 Resp: 59
Ion Ratio Lower Upper
41 100
39 0.0 46.4 69.6#
76 0.0 34.6 51.8#

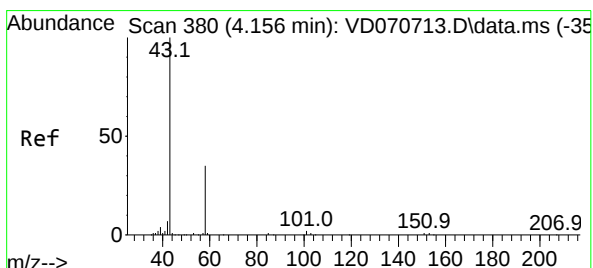
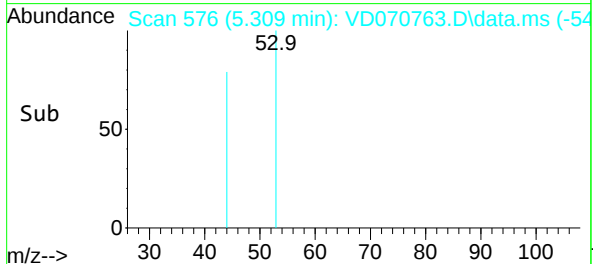
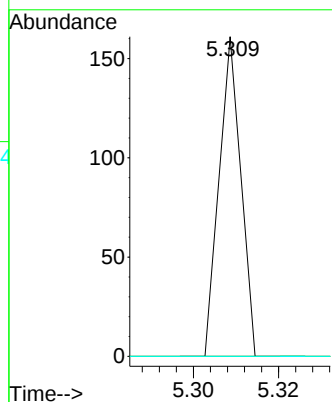
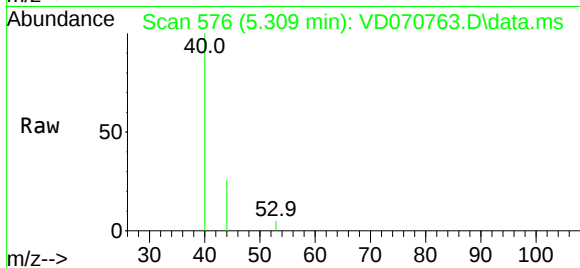




#15
Acrylonitrile
Concen: 8.651 ug/l
RT: 5.309 min Scan# 576
Delta R.T. -0.106 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

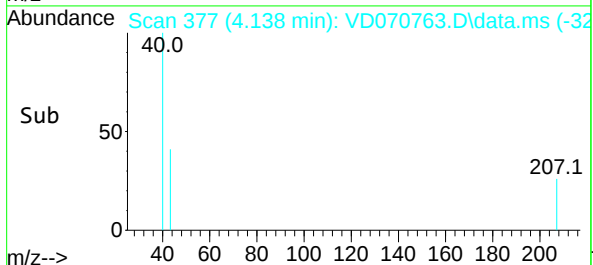
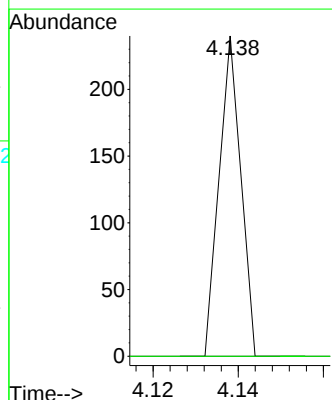
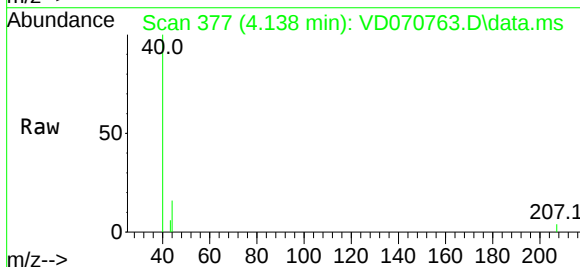
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

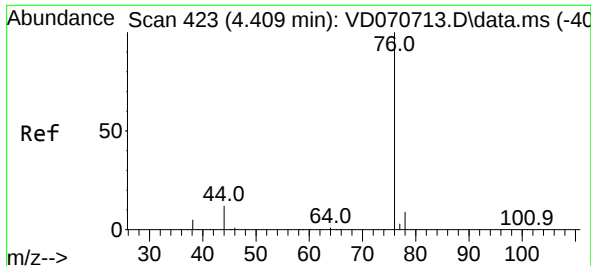
Tgt Ion:	53	Resp:	57
Ion	Ratio	Lower	Upper
53	100		
52	0.0	64.6	97.0#
51	0.0	28.7	43.1#



#16
Acetone
Concen: 12.732 ug/l
RT: 4.138 min Scan# 377
Delta R.T. -0.018 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion:	43	Resp:	85
Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.2	42.2#

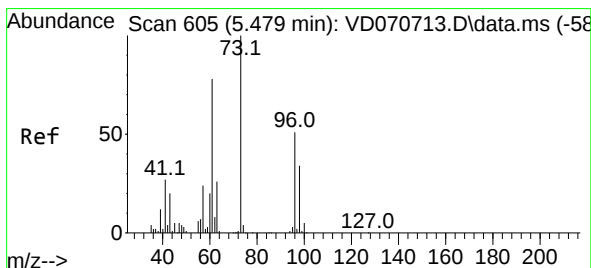
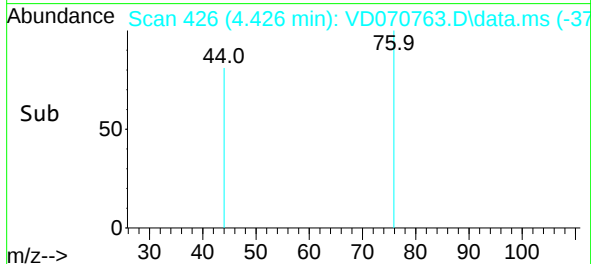
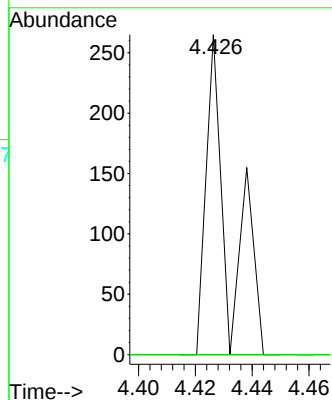
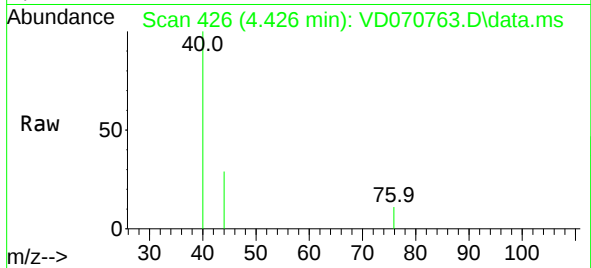




#17
Carbon Disulfide
Concen: 1.599 ug/l
RT: 4.426 min Scan# 426
Delta R.T. 0.018 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

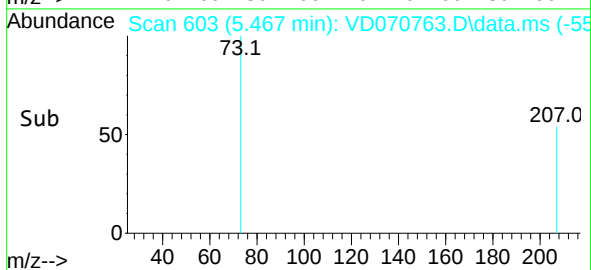
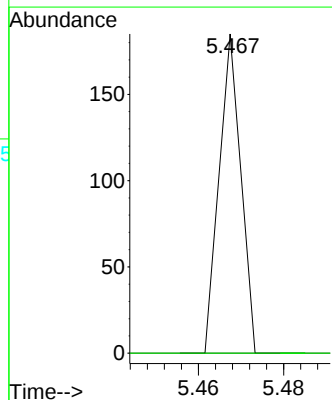
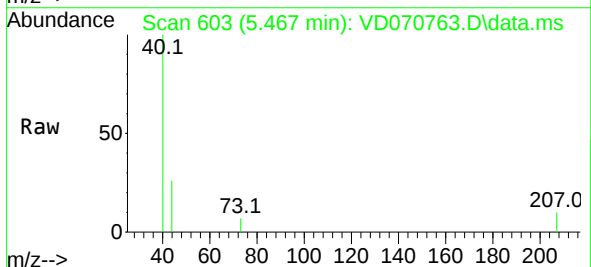
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

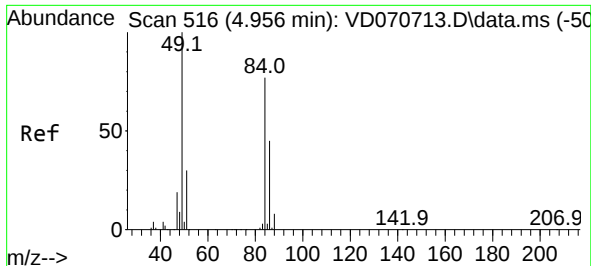
Tgt Ion: 76 Resp: 148
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#19
Methyl tert-butyl Ether
Concen: 1.184 ug/l
RT: 5.467 min Scan# 603
Delta R.T. -0.012 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 73 Resp: 65
Ion Ratio Lower Upper
73 100
57 0.0 18.1 27.1#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.020 min Scan# 527

Delta R.T. 0.064 min

Lab File: VD070763.D

Acq: 19 Oct 2021 17:23

Instrument :

MSVOA_D

ClientSampleId :

OK-01-101821

Tgt Ion: 84 Resp: 60

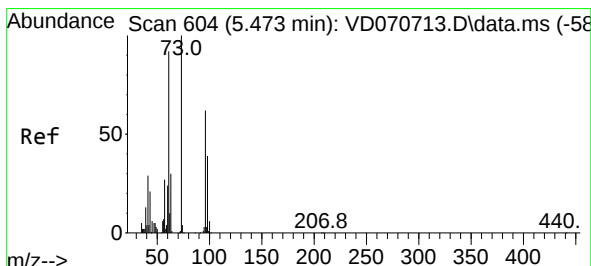
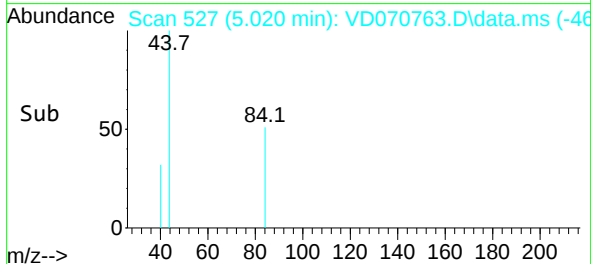
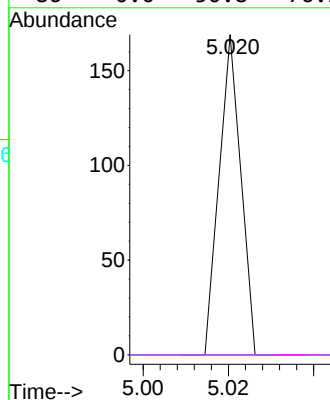
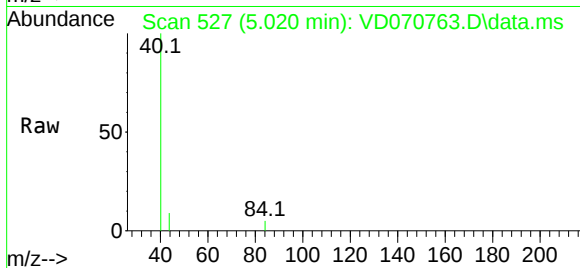
Ion Ratio Lower Upper

84 100

49 0.0 91.4 137.2#

51 0.0 26.7 40.1#

86 0.0 50.8 76.2#



#21

trans-1,2-Dichloroethene

Concen: 2.402 ug/l

RT: 5.473 min Scan# 604

Delta R.T. 0.000 min

Lab File: VD070763.D

Acq: 19 Oct 2021 17:23

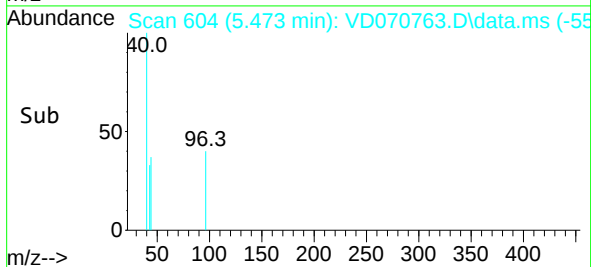
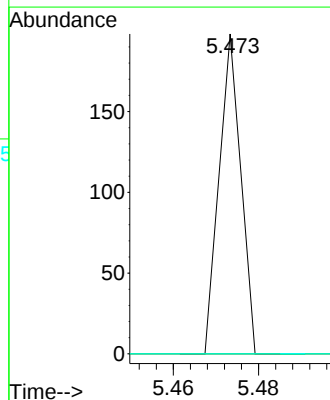
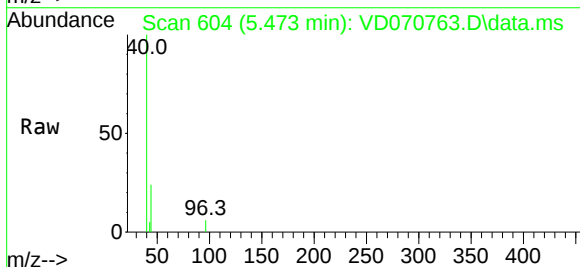
Tgt Ion: 96 Resp: 70

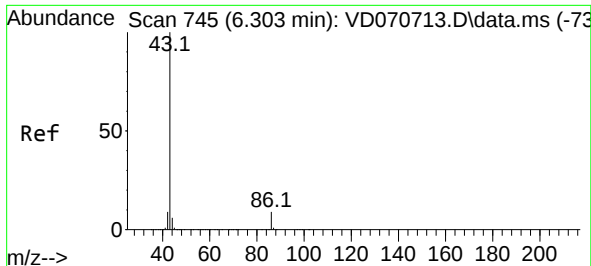
Ion Ratio Lower Upper

96 100

61 0.0 111.1 166.7#

98 0.0 51.9 77.9#

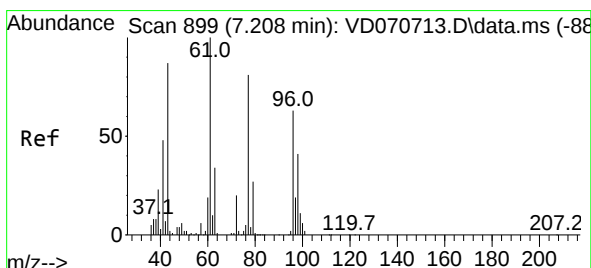
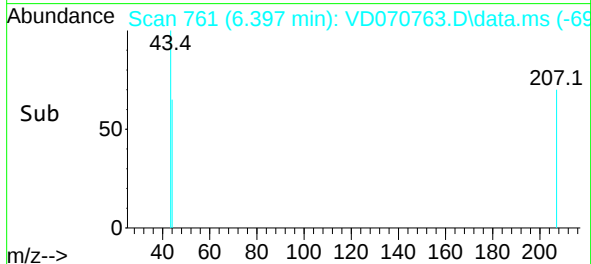
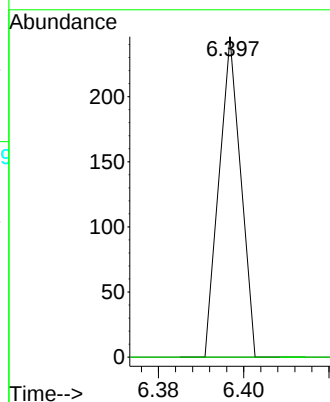
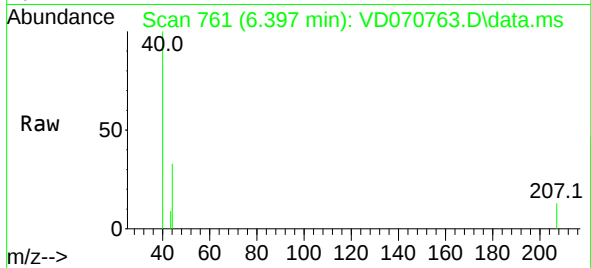




#23
 Vinyl Acetate
 Concen: 17.968 ug/l
 RT: 6.397 min Scan# 761
 Delta R.T. 0.094 min
 Lab File: VD070763.D
 Acq: 19 Oct 2021 17:23

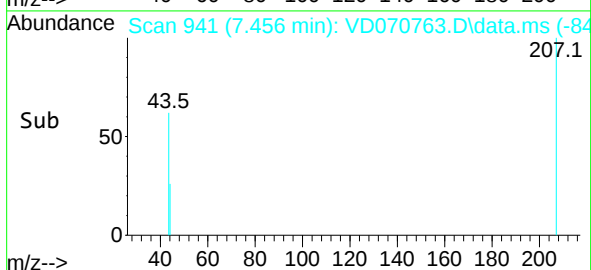
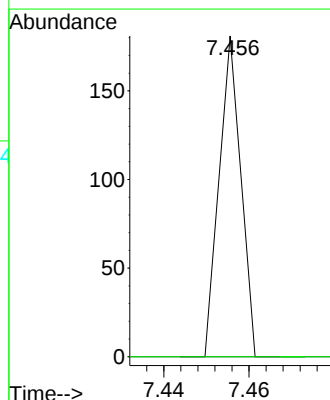
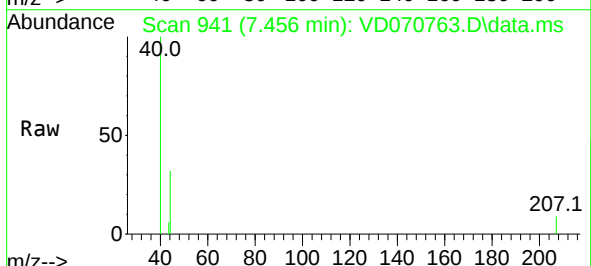
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-01-101821

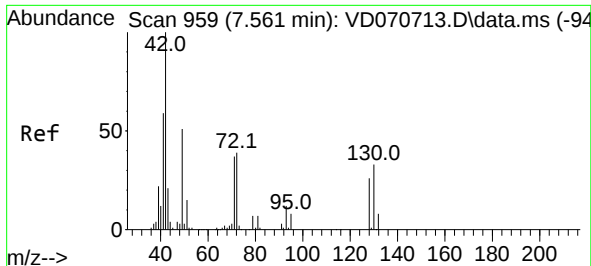
Tgt Ion: 43 Resp: 87
 Ion Ratio Lower Upper
 43 100
 86 0.0 9.8 14.6#



#25
 2-Butanone
 Concen: 7.760 ug/l
 RT: 7.456 min Scan# 941
 Delta R.T. 0.247 min
 Lab File: VD070763.D
 Acq: 19 Oct 2021 17:23

Tgt Ion: 43 Resp: 64
 Ion Ratio Lower Upper
 43 100
 72 0.0 25.2 37.8#





#29

Tetrahydrofuran

Concen: 14.458 ug/l

RT: 7.597 min Scan# 965

Delta R.T. 0.035 min

Lab File: VD070763.D

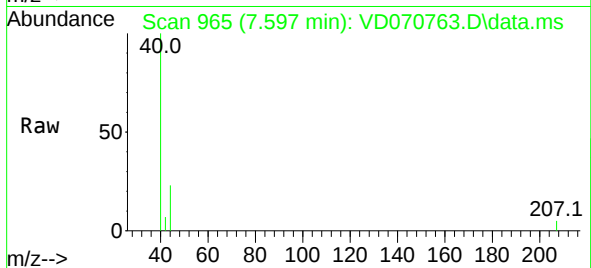
Acq: 19 Oct 2021 17:23

Instrument :

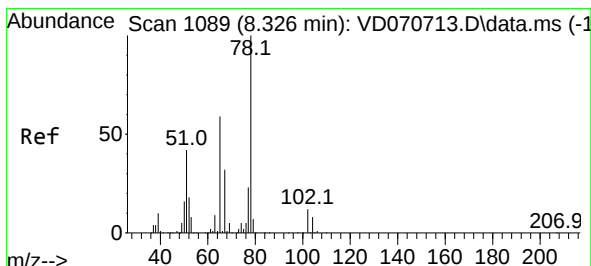
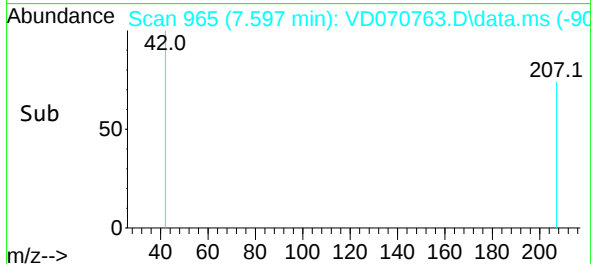
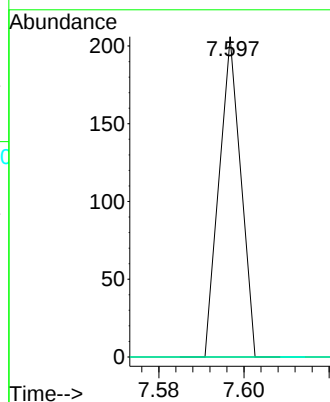
MSVOA_D

ClientSampleId :

OK-01-101821



Tgt Ion:	42	Resp:	73
Ion	Ratio	Lower	Upper
42	100		
72	0.0	40.2	60.4#
71	0.0	37.2	55.8#



#33

1,2-Dichloroethane-d4

Concen: 58.887 ug/l

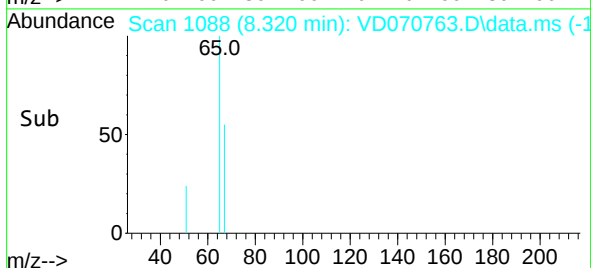
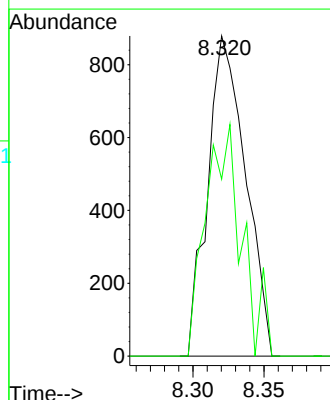
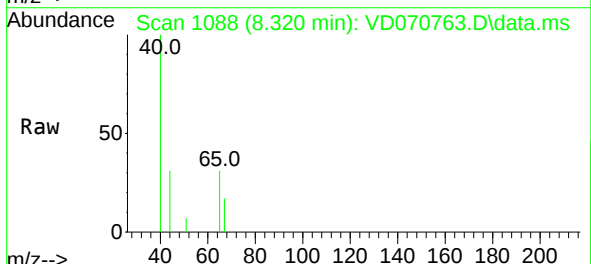
RT: 8.320 min Scan# 1088

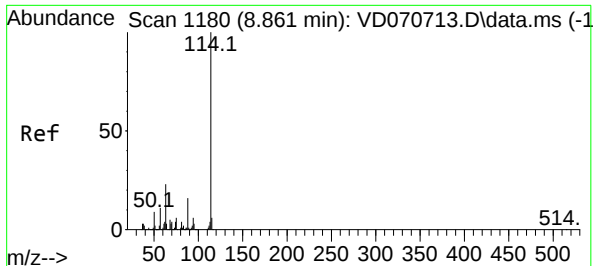
Delta R.T. -0.006 min

Lab File: VD070763.D

Acq: 19 Oct 2021 17:23

Tgt Ion:	65	Resp:	1630
Ion	Ratio	Lower	Upper
65	100		
67	69.3	0.0	110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.850 min Scan# 1178

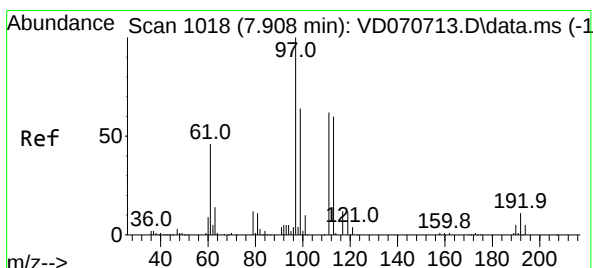
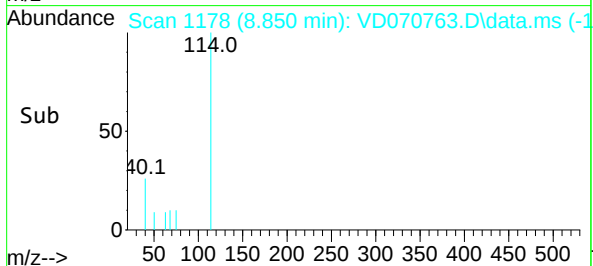
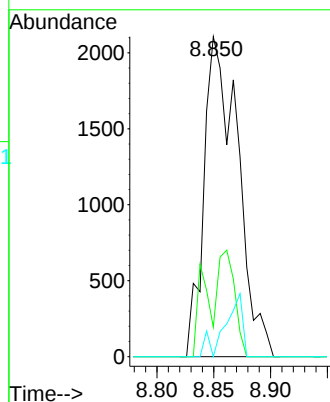
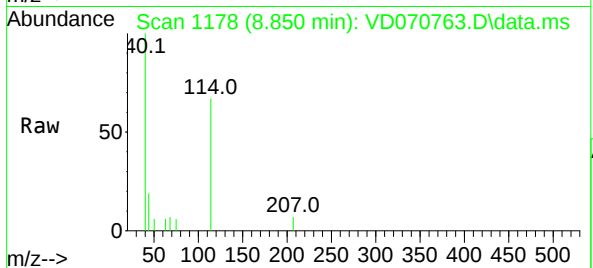
Delta R.T. -0.012 min

Lab File: VD070763.D

Acq: 19 Oct 2021 17:23

Tgt Ion:114	Resp:	4351
Ion Ratio	Lower	Upper
114	100	
63	9.3	0.0 41.8
88	0.0	0.0 32.6

Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821



#35

Dibromofluoromethane

Concen: 56.426 ug/l

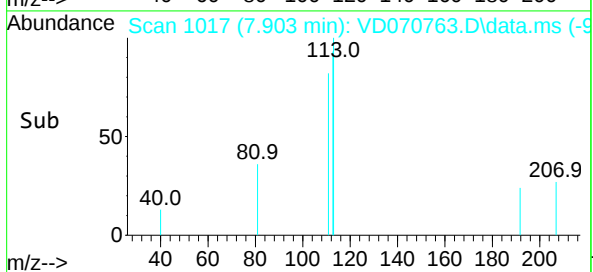
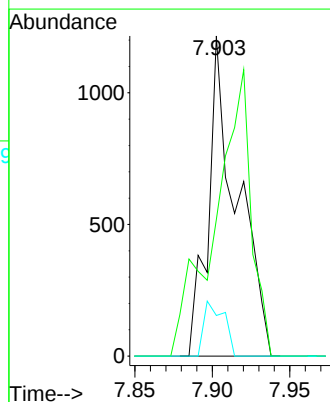
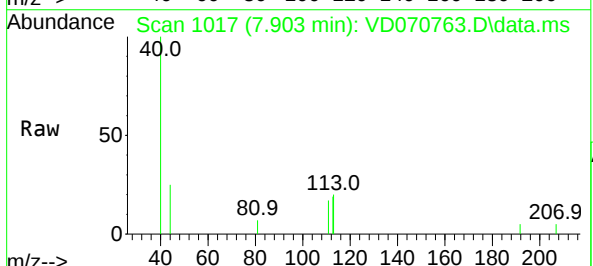
RT: 7.903 min Scan# 1017

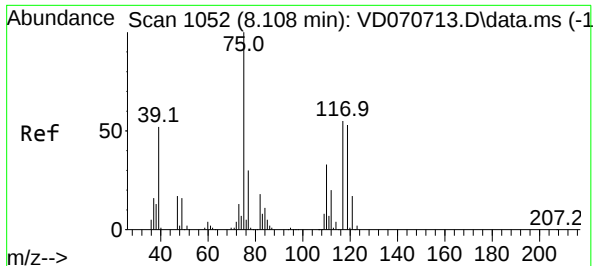
Delta R.T. -0.006 min

Lab File: VD070763.D

Acq: 19 Oct 2021 17:23

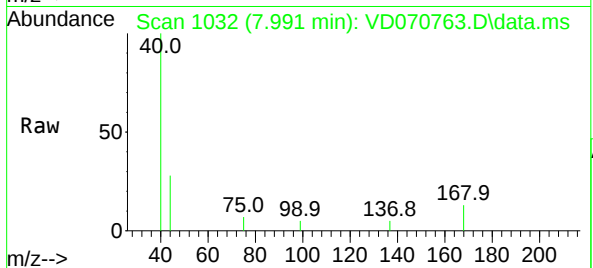
Tgt Ion:113	Resp:	1572
Ion Ratio	Lower	Upper
113	100	
111	0.0	83.1 124.7#
192	11.9	12.7 19.1#



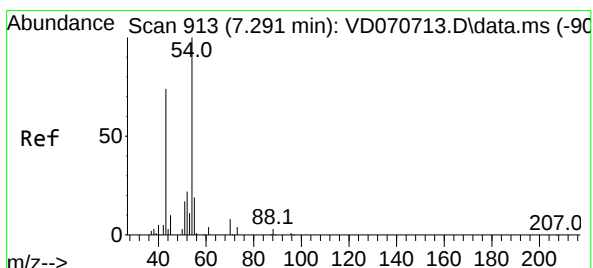
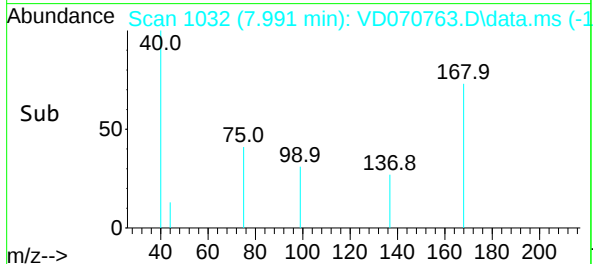
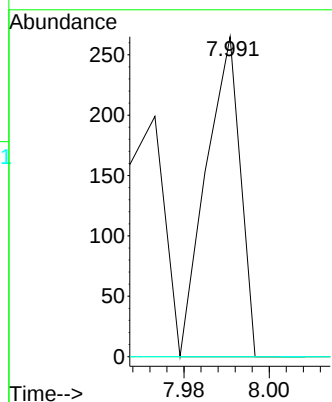


#36
1,1-Dichloropropene
Concen: 3.033 ug/l
RT: 7.991 min Scan# 1032
Delta R.T. -0.118 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

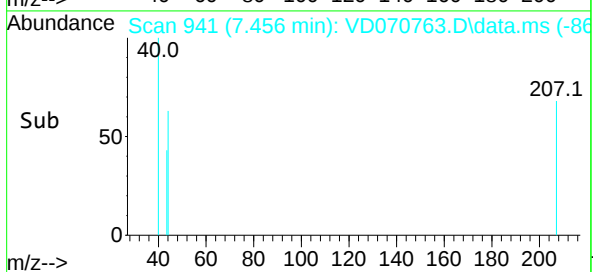
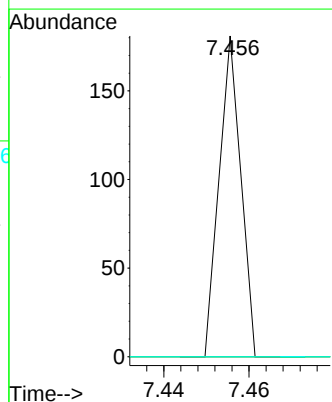
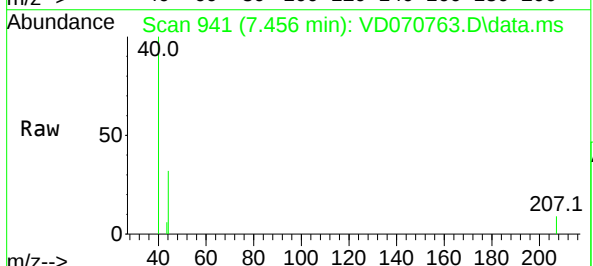


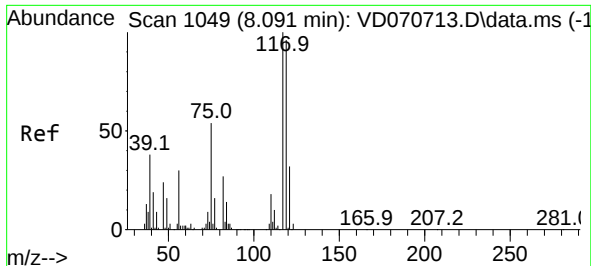
Tgt Ion: 75 Resp: 147
Ion Ratio Lower Upper
75 100
110 0.0 17.2 51.6#
77 0.0 24.2 36.4#



#37
Ethyl Acetate
Concen: 3.187 ug/l
RT: 7.456 min Scan# 941
Delta R.T. 0.165 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
61 0.0 12.9 19.3#
70 0.0 9.9 14.9#

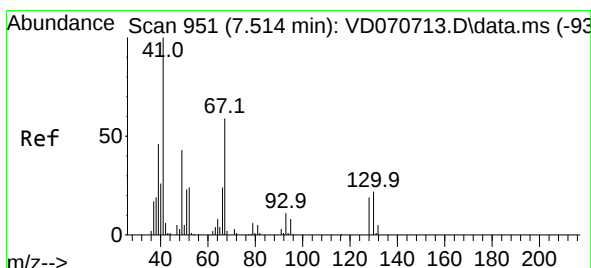
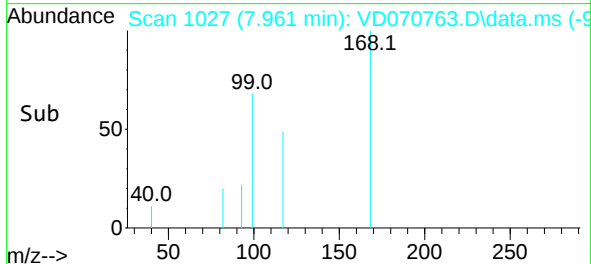
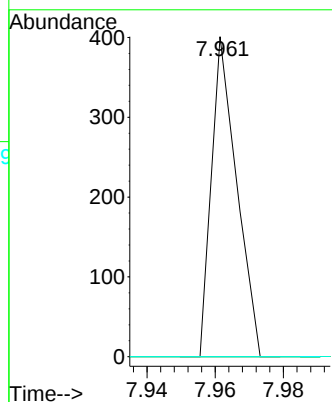
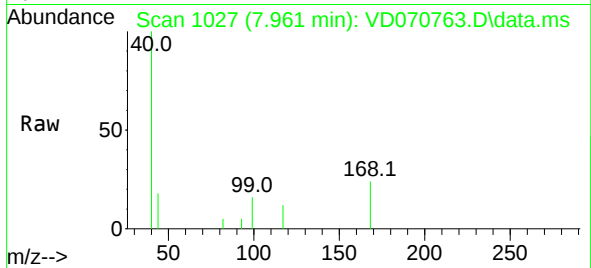




#38
Carbon Tetrachloride
Concen: 4.437 ug/l
RT: 7.961 min Scan# 1027
Delta R.T. -0.129 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

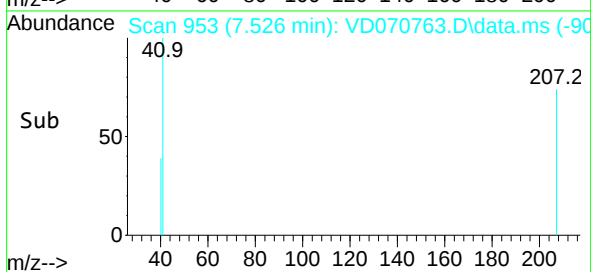
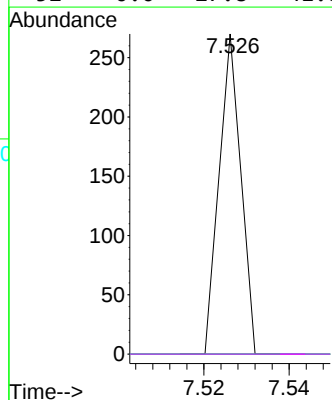
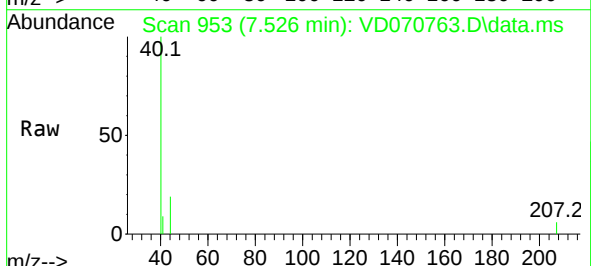
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

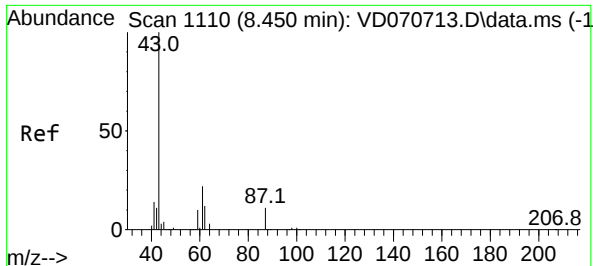
Tgt Ion:117 Resp: 206
Ion Ratio Lower Upper
117 100
119 0.0 77.4 116.0#
121 0.0 25.4 38.0#



#41
Methacrylonitrile
Concen: 9.154 ug/l
RT: 7.526 min Scan# 953
Delta R.T. 0.012 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 41 Resp: 95
Ion Ratio Lower Upper
41 100
39 0.0 45.2 67.8#
67 0.0 75.8 113.6#
52 0.0 27.8 41.8#



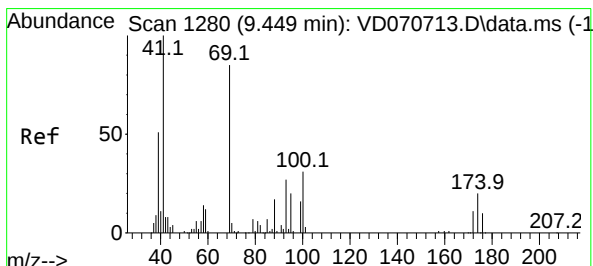
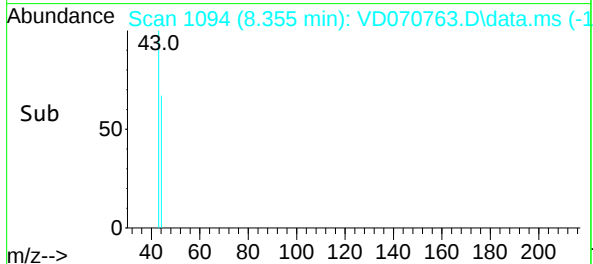
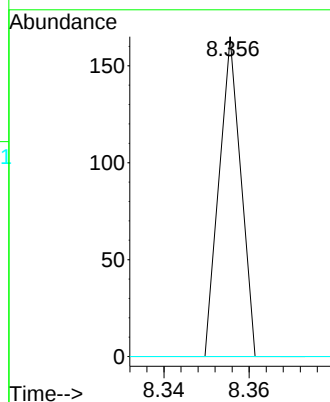
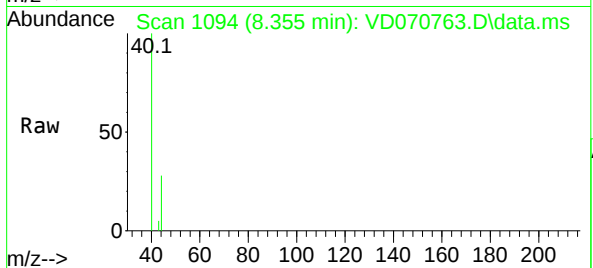


#43

Isopropyl Acetate
Concen: 1.514 ug/l
RT: 8.355 min Scan# 1094
Delta R.T. -0.094 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

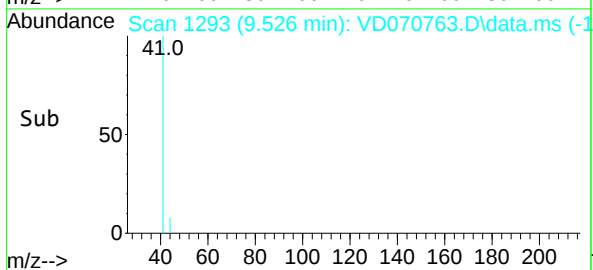
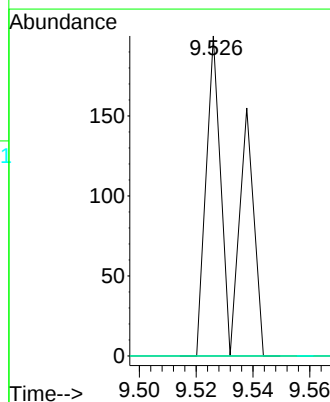
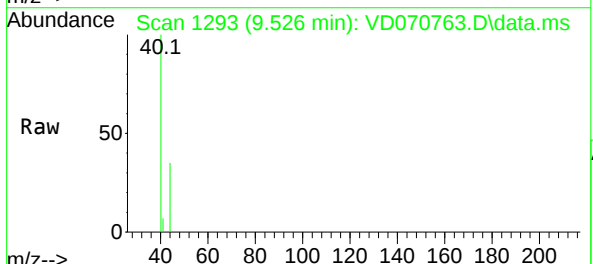
Tgt Ion: 43	Resp: 58
Ion Ratio	Lower Upper
43 100	
61 0.0	29.0 43.4#
87 0.0	11.8 17.6#

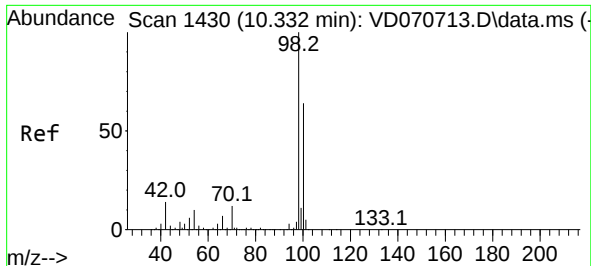


#48

Methyl methacrylate
Concen: 6.661 ug/l
RT: 9.526 min Scan# 1293
Delta R.T. 0.077 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 41	Resp: 125
Ion Ratio	Lower Upper
41 100	
69 0.0	78.5 117.7#
39 0.0	34.9 52.3#

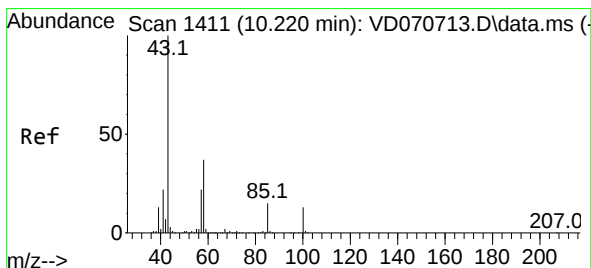
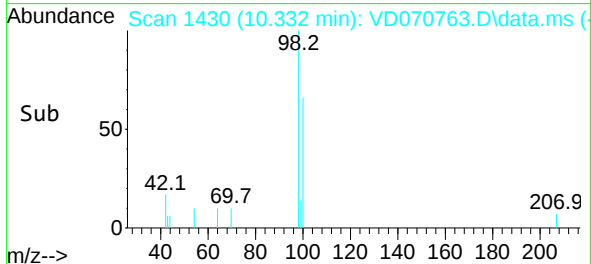
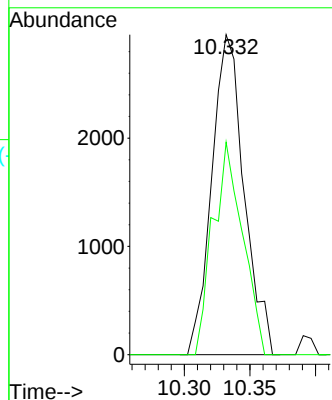
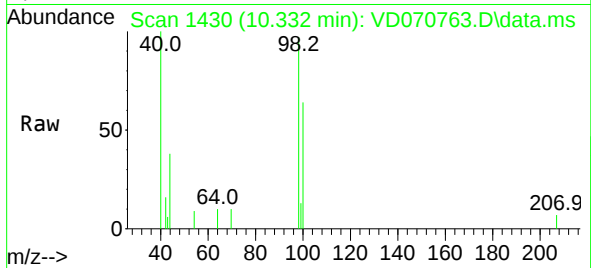




#50
Toluene-d8
Concen: 47.436 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

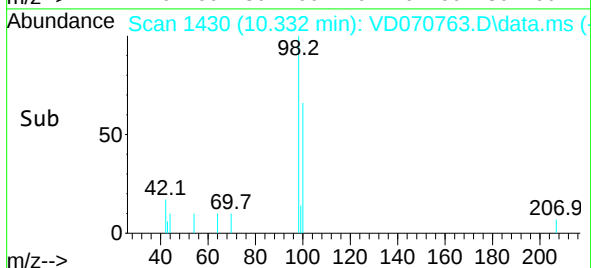
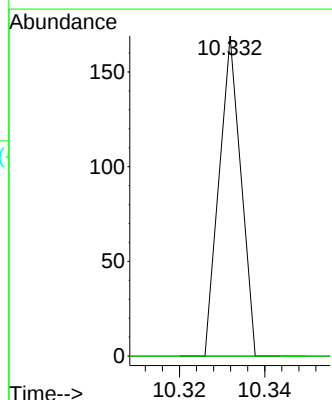
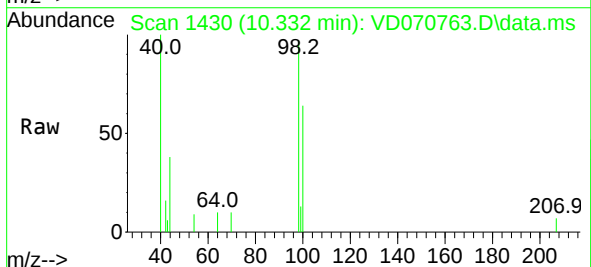
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

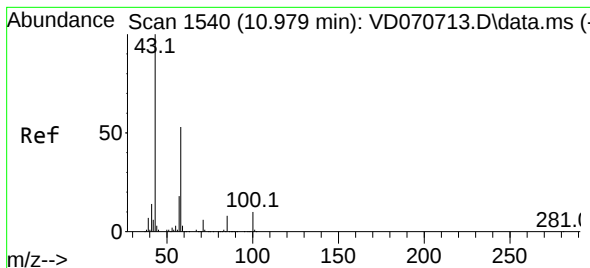
Tgt Ion: 98 Resp: 5066
Ion Ratio Lower Upper
98 100
100 61.1 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 2.972 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.112 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 35.0 52.6#

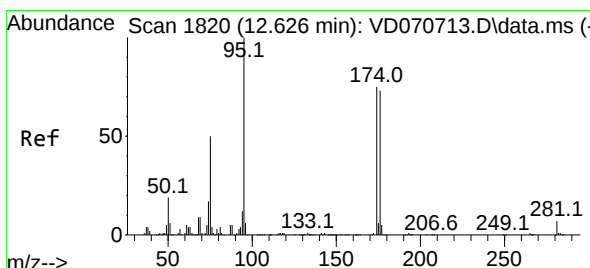
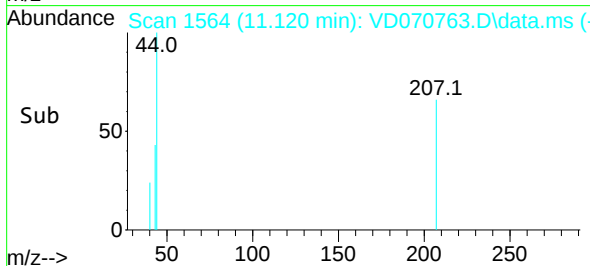
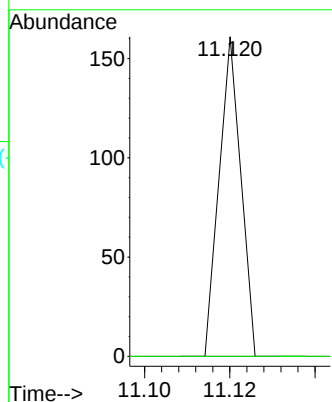
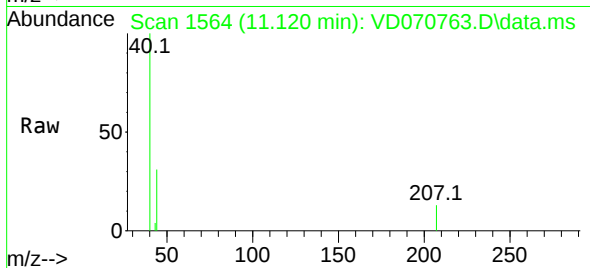




#59
2-Hexanone
Concen: 4.011 ug/l
RT: 11.120 min Scan# 1564
Delta R.T. 0.141 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

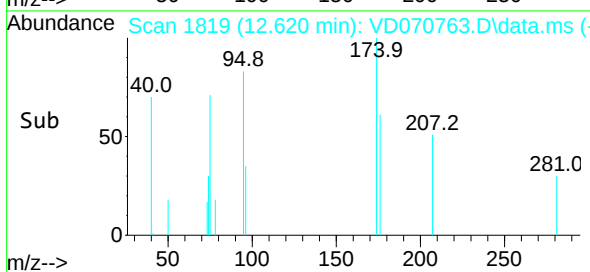
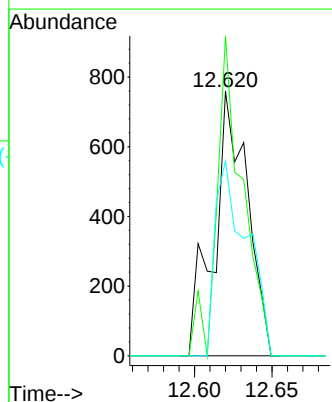
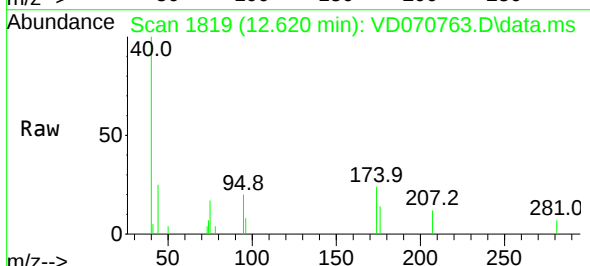
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

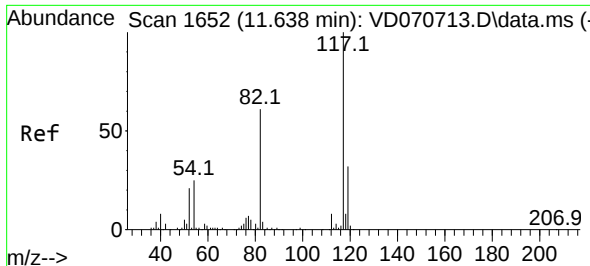
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 31.001 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 95 Resp: 1140
Ion Ratio Lower Upper
95 100
174 92.8 0.0 138.0
176 69.5 0.0 135.6

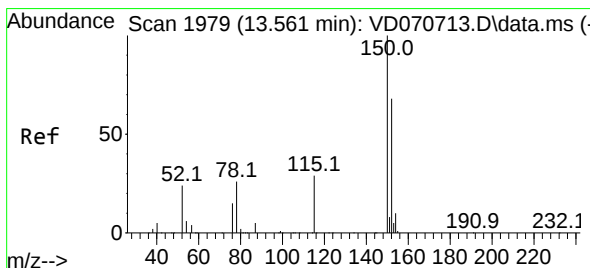
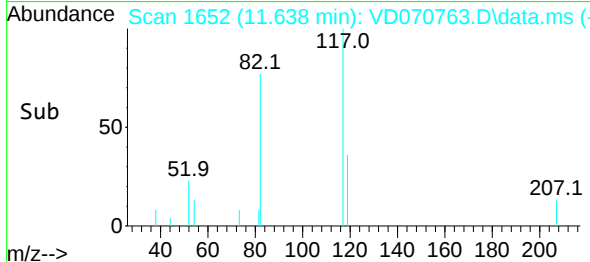
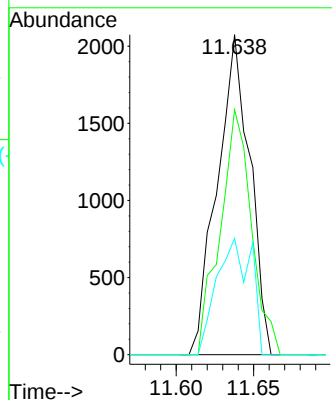
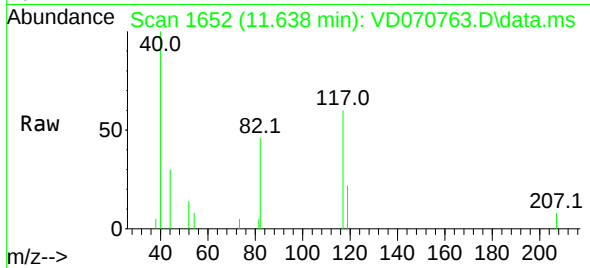




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

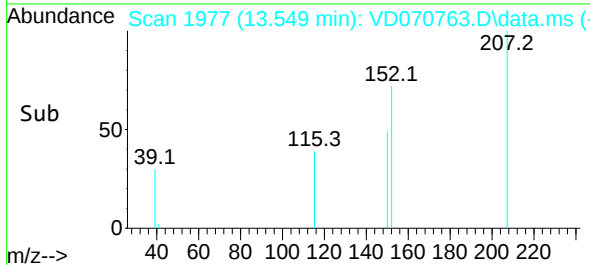
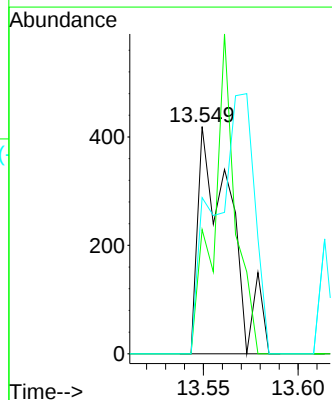
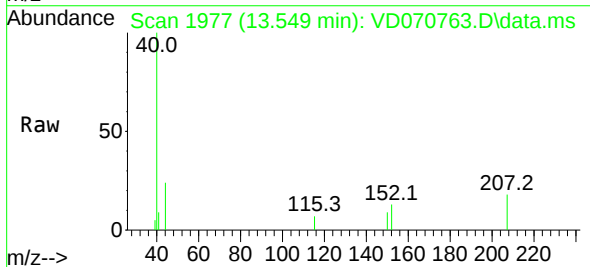
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

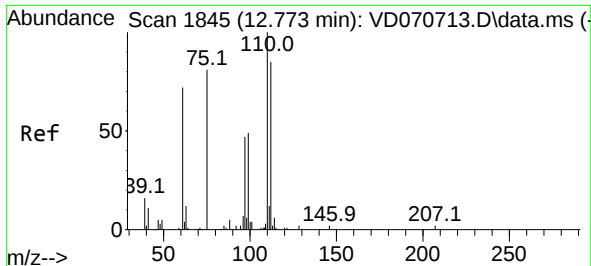
Tgt Ion:117 Resp: 3036
Ion Ratio Lower Upper
117 100
82 76.6 45.4 68.2#
119 36.3 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.549 min Scan# 1977
Delta R.T. -0.012 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion:152 Resp: 497
Ion Ratio Lower Upper
152 100
115 0.0 31.9 95.7#
150 0.0 0.0 350.0

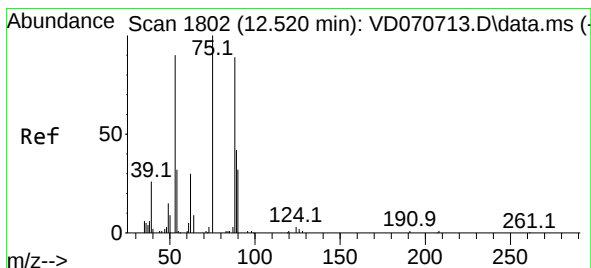
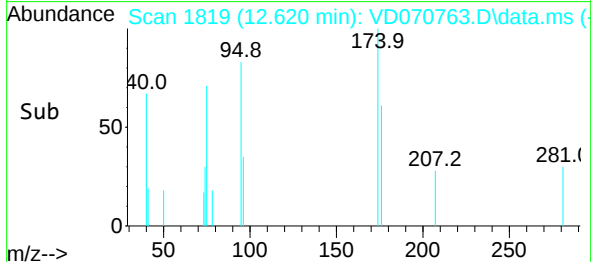
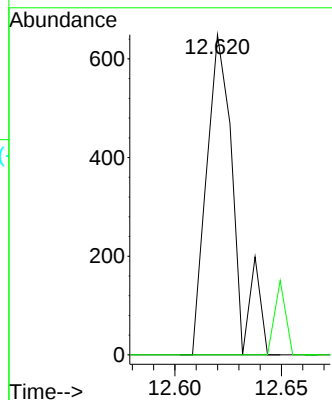
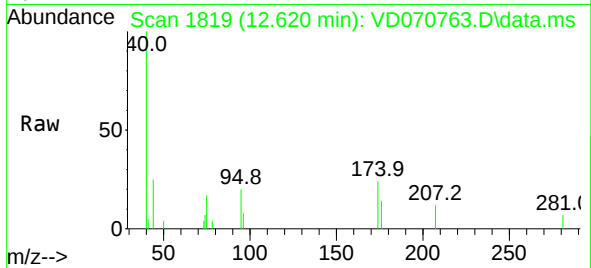




#76
1,2,3-Trichloropropane
Concen: 135.775 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

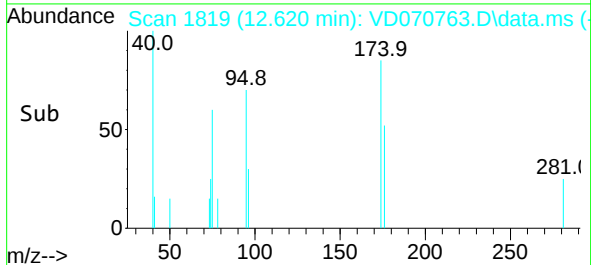
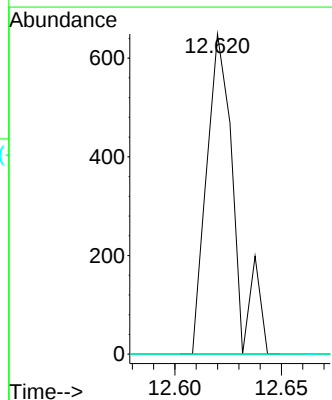
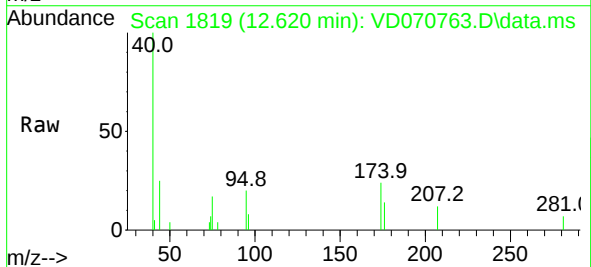
Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

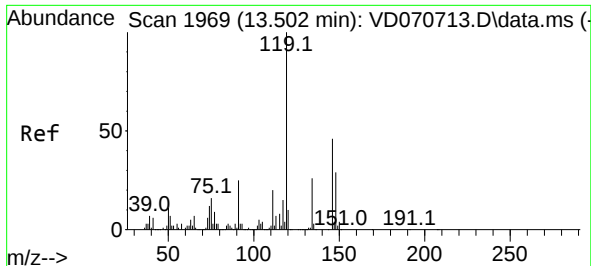
Tgt Ion: 75 Resp: 583
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 297.389 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion: 75 Resp: 583
Ion Ratio Lower Upper
75 100
53 0.0 64.5 96.7#
89 0.0 35.3 52.9#

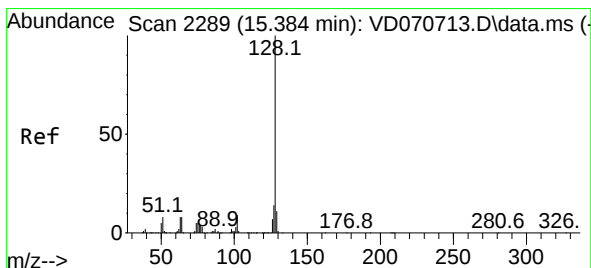
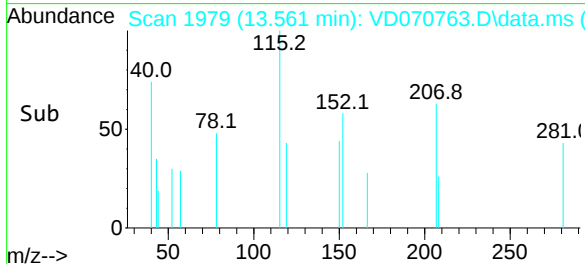
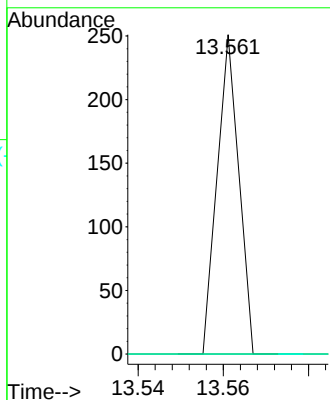
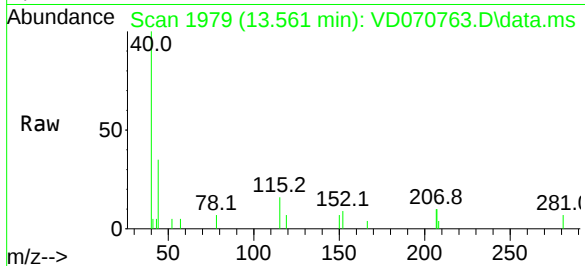




#86
p-Isopropyltoluene
Concen: 2.847 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.059 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Instrument :
MSVOA_D
ClientSampleId :
OK-01-101821

Tgt Ion:119 Resp: 89
Ion Ratio Lower Upper
119 100
134 0.0 12.5 37.5#
91 0.0 11.9 35.5#



#95
Naphthalene
Concen: 11.536 ug/l
RT: 15.226 min Scan# 2262
Delta R.T. -0.158 min
Lab File: VD070763.D
Acq: 19 Oct 2021 17:23

Tgt Ion:128 Resp: 120
Ion Ratio Lower Upper
128 100
127 0.0 10.9 16.3#
129 0.0 8.6 12.8#

