

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092721\
 Data File : VD070488.D
 Acq On : 27 Sep 2021 20:06
 Operator : VA/SY
 Sample : M3944-01
 Misc : 5.88G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BOILER-PIT-3-5

Quant Time: Sep 28 04:17:29 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D090821S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 09 03:07:09 2021
 Response via : Initial Calibration

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

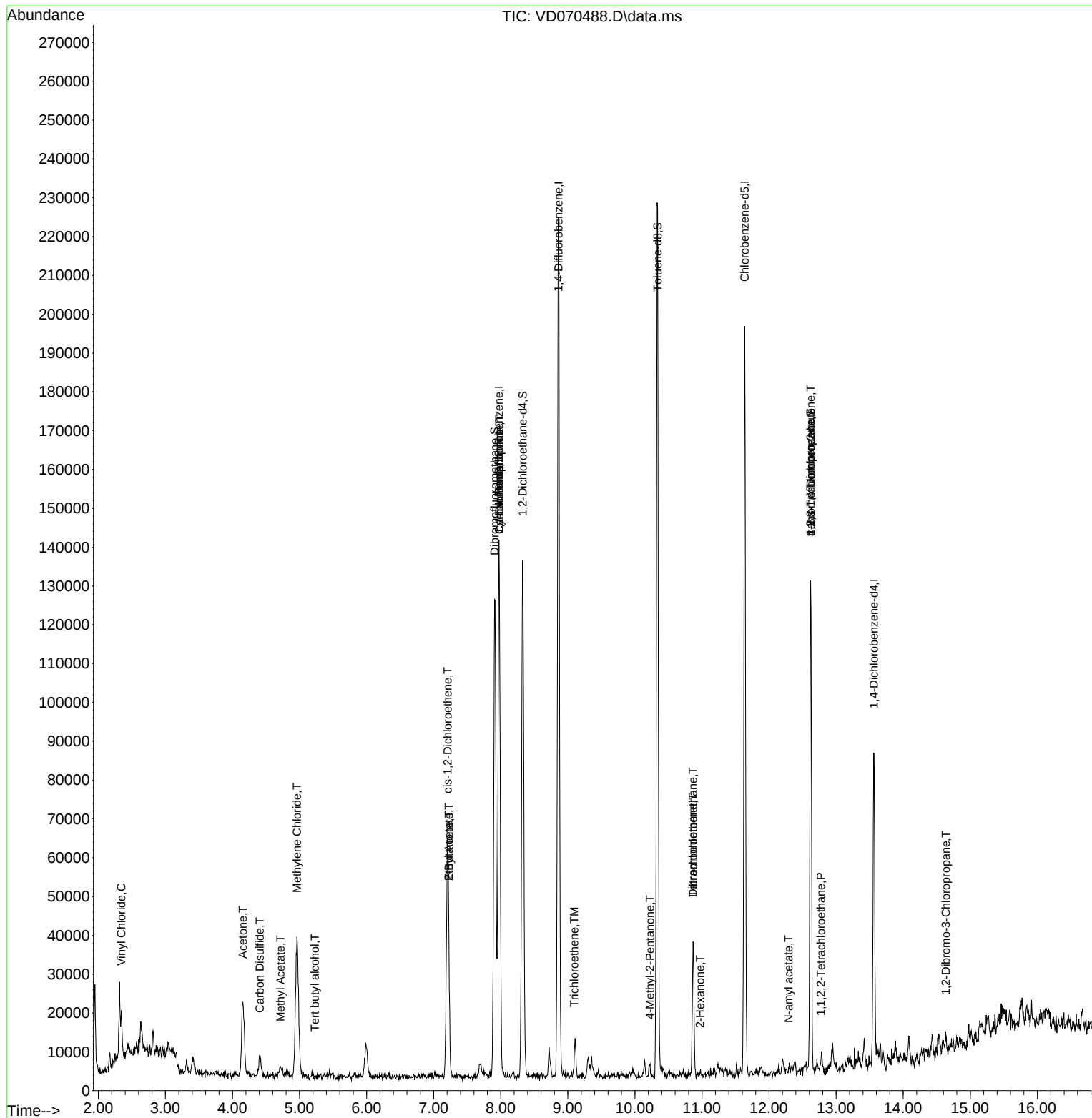
Internal Standards						
1) Pentafluorobenzene	7.973	168	96225	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	194688	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	114991	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	22514	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	107734	87.195	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 174.400%#	
35) Dibromofluoromethane	7.908	113	92850	67.000	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 134.000%	
50) Toluene-d8	10.338	98	161768	32.151	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 64.300%	
62) 4-Bromofluorobenzene	12.620	95	31543	17.938	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 35.880%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.991	85	99	Below Cal	#	43
3) Chloromethane	2.215	50	435	Below Cal	#	42
4) Vinyl Chloride	2.344	62	4017	2.653	ug/l	99
5) Bromomethane	2.779	94	856	Below Cal	#	4
6) Chloroethane	2.879	64	58	Below Cal	#	43
11) Tert butyl alcohol	5.226	59	300	2.147	ug/l	# 100
16) Acetone	4.156	43	35141	159.305	ug/l	98
17) Carbon Disulfide	4.409	76	9298	2.250	ug/l	100
18) Methyl Acetate	4.714	43	5423	7.676	ug/l	# 57
20) Methylene Chloride	4.961	84	30566	17.518	ug/l	91
25) 2-Butanone	7.226	43	7929	27.003	ug/l	# 87
27) cis-1,2-Dichloroethene	7.208	96	36541	25.508	ug/l	89
31) Cyclohexane	7.979	56	3119	1.465	ug/l	# 43
36) 1,1-Dichloropropene	7.979	75	8977	4.314	ug/l	# 48
37) Ethyl Acetate	7.226	43	7929	10.190	ug/l	# 1
38) Carbon Tetrachloride	7.979	117	11091	5.389	ug/l	# 16
44) Trichloroethene	9.097	130	3110	2.134	ug/l	93
51) 4-Methyl-2-Pentanone	10.226	43	2048	2.751	ug/l	92
59) 2-Hexanone	10.973	43	873	1.757	ug/l	# 39
60) Dibromochloromethane	10.867	129	7595	5.758	ug/l	# 11
64) Tetrachloroethene	10.867	164	8236	11.764	ug/l	# 82
74) N-amyl acetate	12.290	43	1161	3.375	ug/l	# 30
75) 1,1,2,2-Tetrachloroethane	12.773	83	408	1.207	ug/l	# 41
76) 1,2,3-Trichloropropane	12.620	75	15376	67.518	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.620	75	15376	169.172	ug/l	# 17
92) 1,2-Dibromo-3-Chloropr...	14.637	75	69	1.362	ug/l	# 5

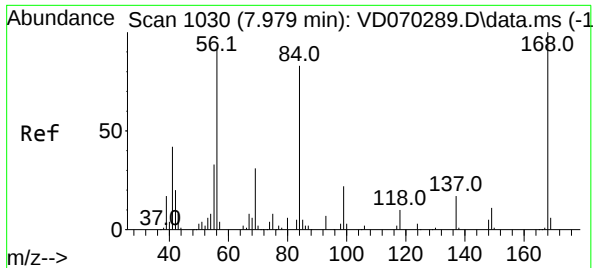
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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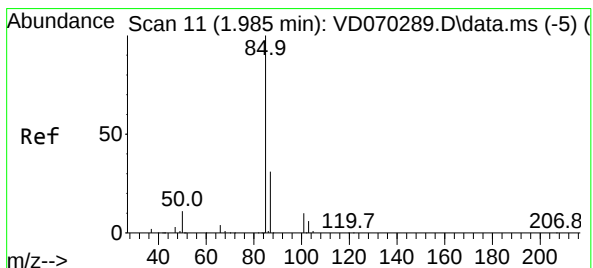
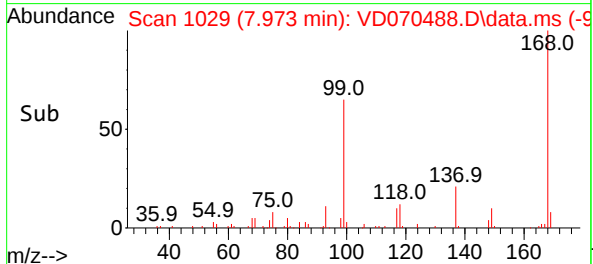
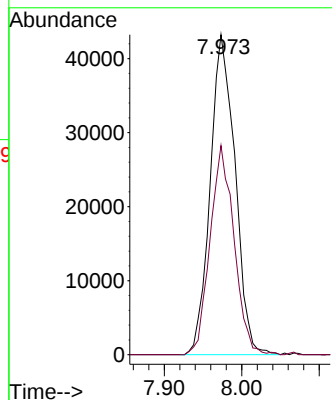
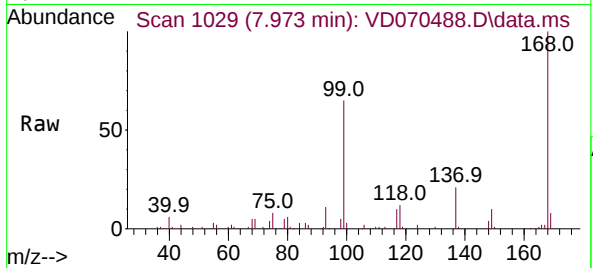




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

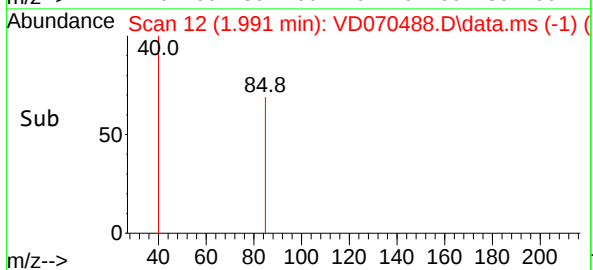
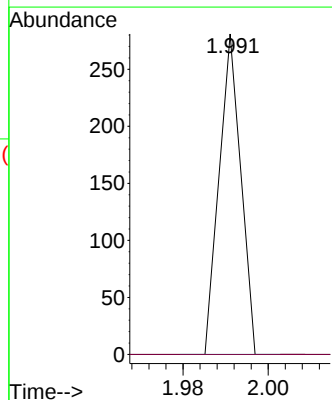
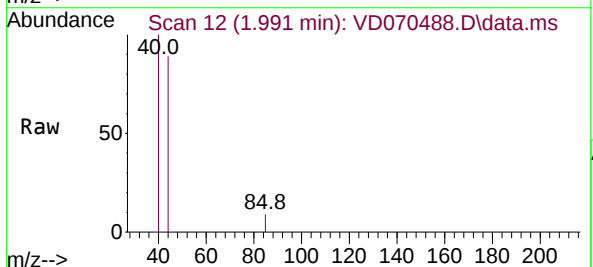
Instrument :
MSVOA_D
ClientSampleId :
BOILER-PIT-3-5

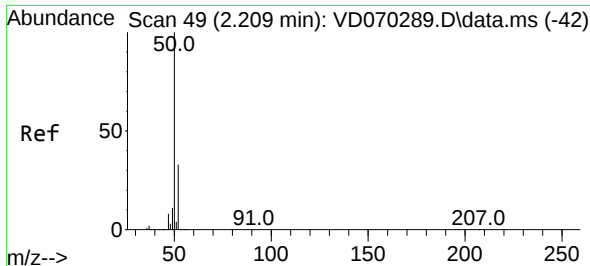
Tgt Ion:168 Resp: 96225
Ion Ratio Lower Upper
168 100
99 65.3 50.8 76.2



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.991 min Scan# 12
Delta R.T. 0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 85 Resp: 99
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#

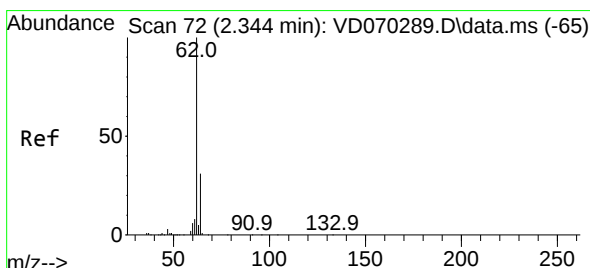
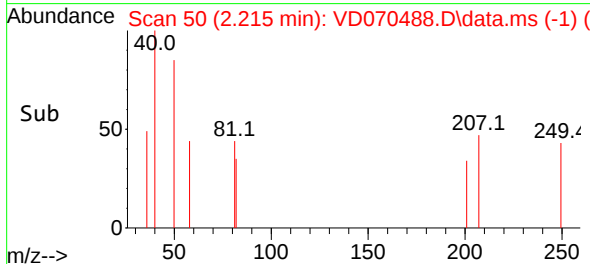
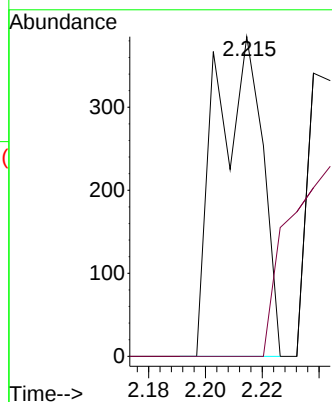
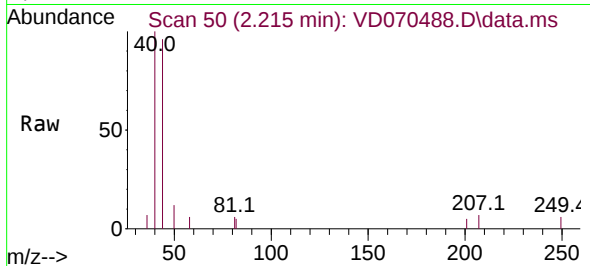




#3
Chloromethane
Concen: Below Cal
RT: 2.215 min Scan# 50
Delta R.T. 0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

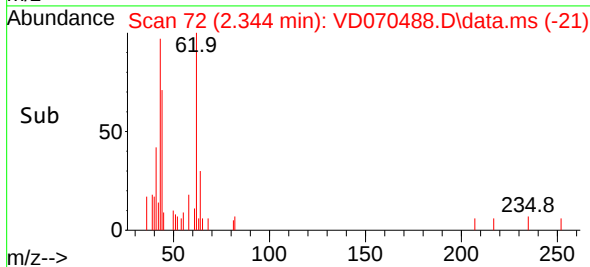
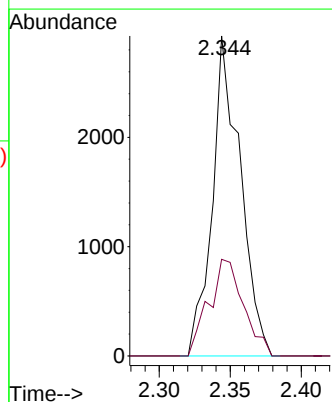
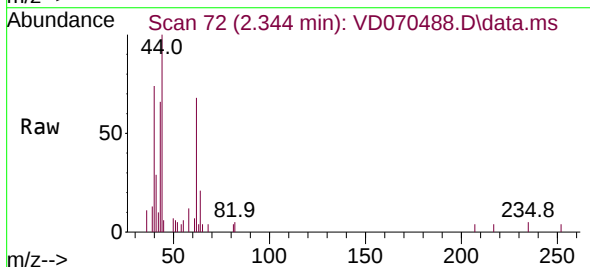
Instrument :
MSVOA_D
ClientSampleID :
BOILER-PIT-3-5

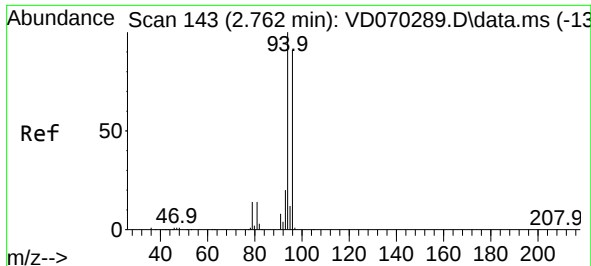
Tgt Ion: 50 Resp: 435
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#



#4
Vinyl Chloride
Concen: 2.653 ug/l
RT: 2.344 min Scan# 72
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 62 Resp: 4017
Ion Ratio Lower Upper
62 100
64 30.2 24.6 36.8

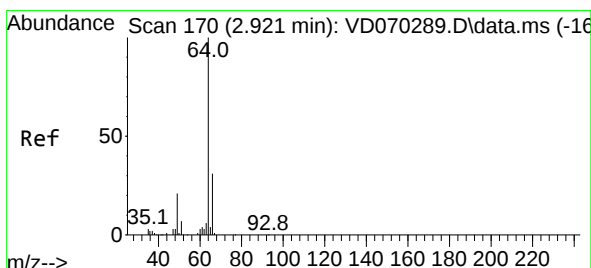
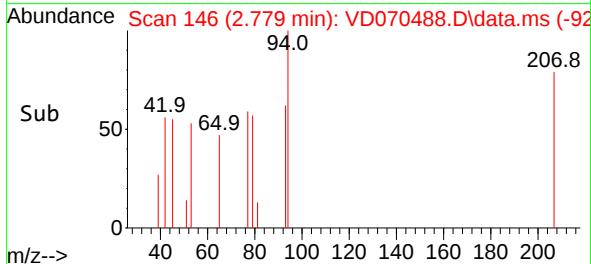
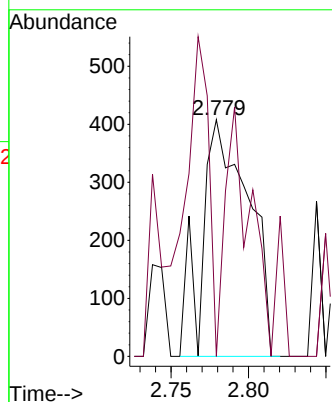
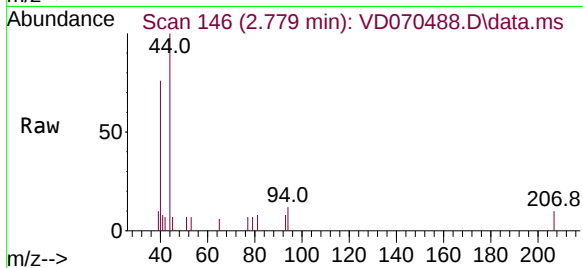




#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 146
Delta R.T. 0.017 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

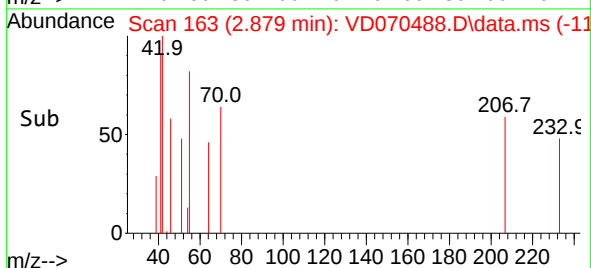
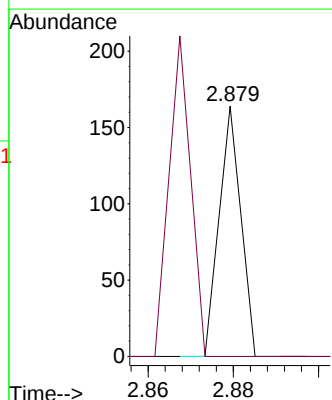
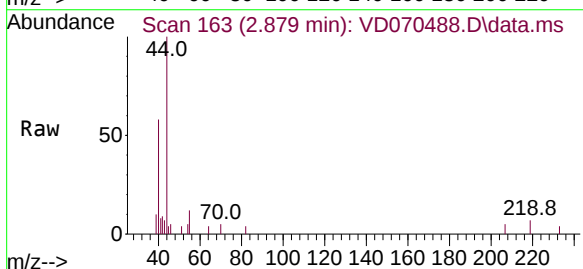
Instrument :
MSVOA_D
ClientSampleId :
BOILER-PIT-3-5

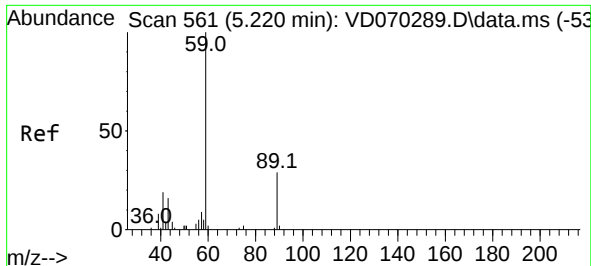
Tgt Ion: 94 Resp: 856
Ion Ratio Lower Upper
94 100
96 0.0 73.0 109.6#



#6
Chloroethane
Concen: Below Cal
RT: 2.879 min Scan# 163
Delta R.T. -0.042 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 64 Resp: 58
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#



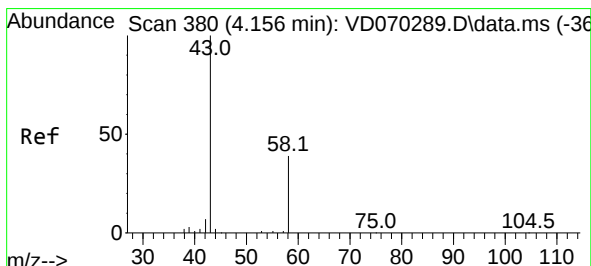
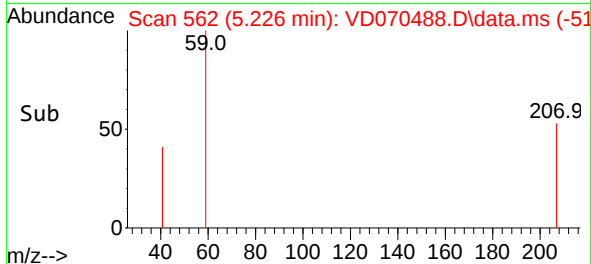
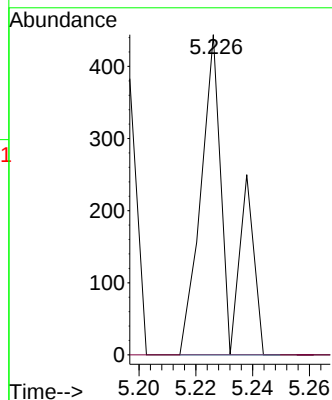
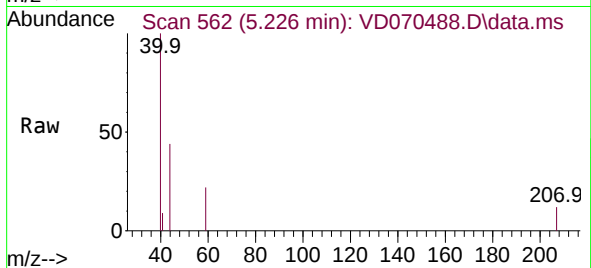


#11

Tert butyl alcohol
Concen: 2.147 ug/l
RT: 5.226 min Scan# 562
Delta R.T. 0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Instrument :
MSVOA_D
ClientSampleId :
BOILER-PIT-3-5

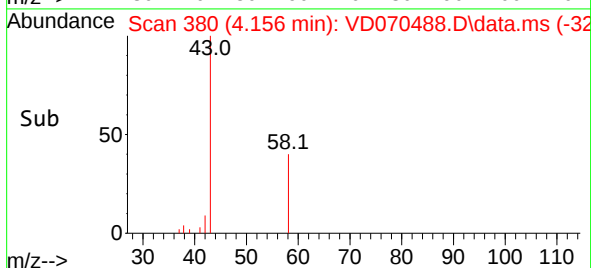
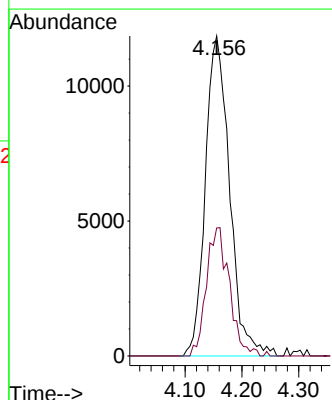
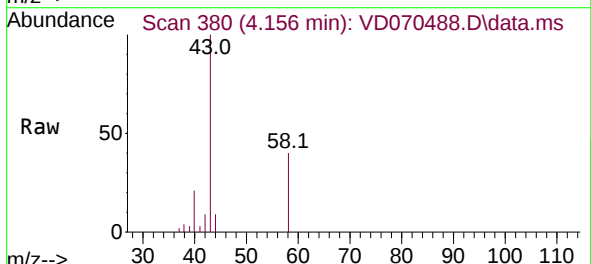
Tgt Ion: 59 Resp: 300
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

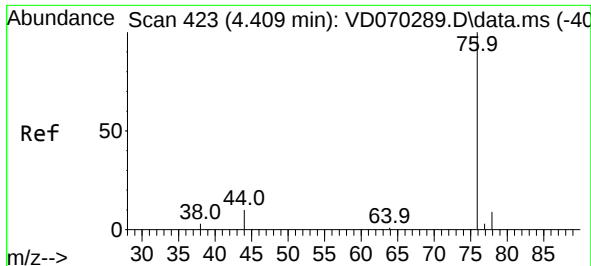


#16

Acetone
Concen: 159.305 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 43 Resp: 35141
Ion Ratio Lower Upper
43 100
58 40.0 30.9 46.3

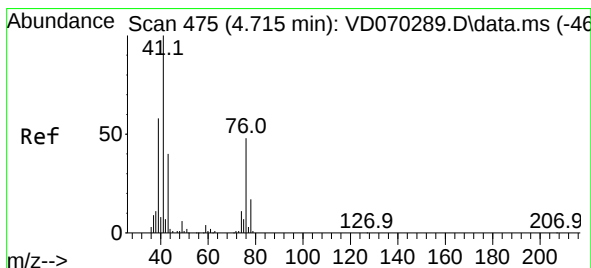
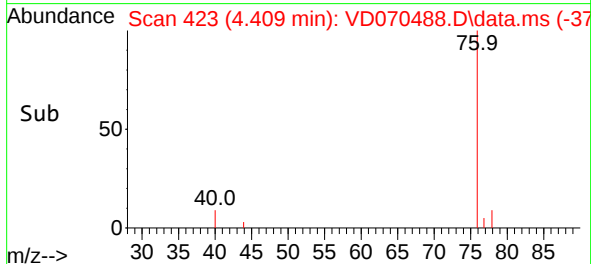
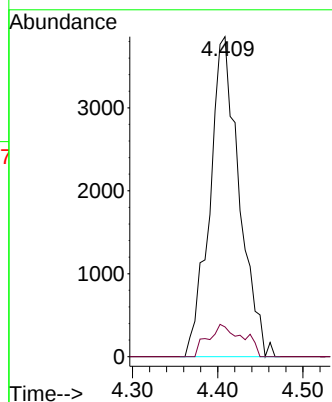
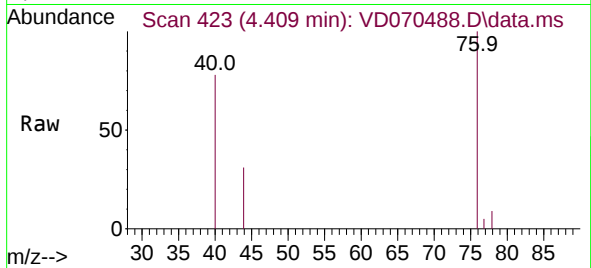




#17
Carbon Disulfide
Concen: 2.250 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

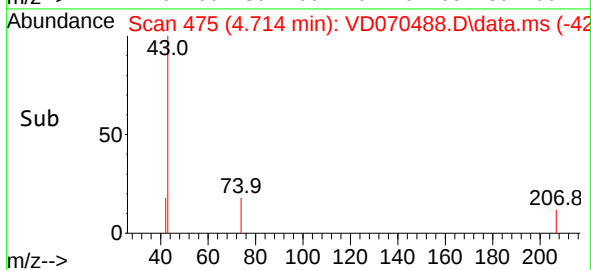
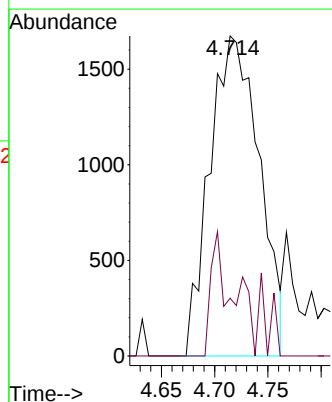
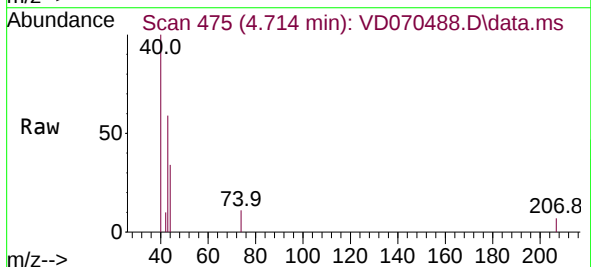
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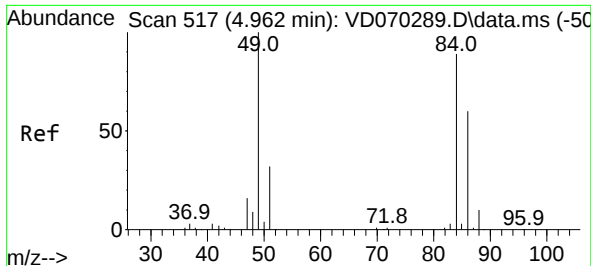
Tgt Ion: 76 Resp: 9298
Ion Ratio Lower Upper
76 100
78 9.3 7.5 11.3



#18
Methyl Acetate
Concen: 7.676 ug/l
RT: 4.714 min Scan# 475
Delta R.T. -0.001 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 43 Resp: 5423
Ion Ratio Lower Upper
43 100
74 4.9 21.6 32.4#

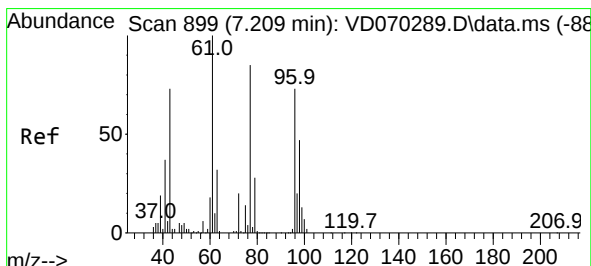
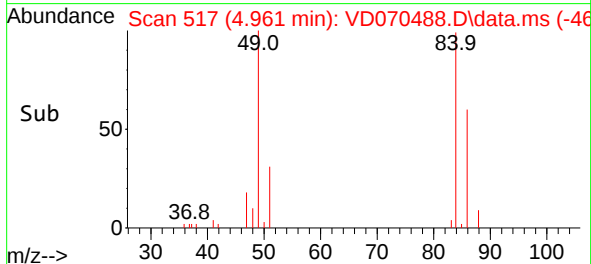
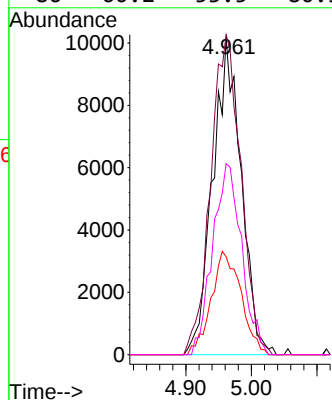
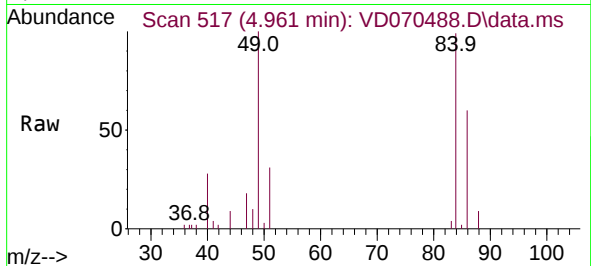




#20
Methylene Chloride
Concen: 17.518 ug/l
RT: 4.961 min Scan# 517
Delta R.T. -0.001 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

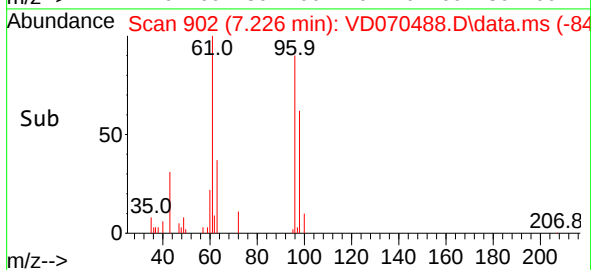
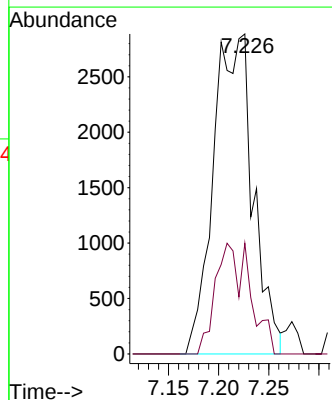
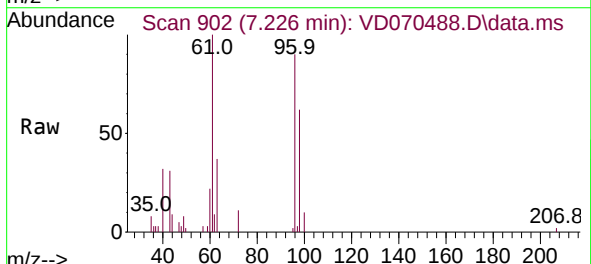
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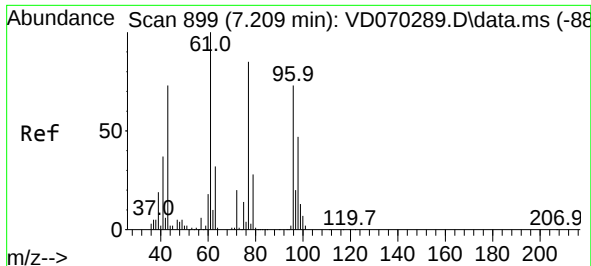
Tgt Ion:	84	Resp:	30566
Ion	Ratio	Lower	Upper
84	100		
49	100.8	89.6	134.4
51	30.9	28.6	43.0
86	60.2	53.5	80.3



#25
2-Butanone
Concen: 27.003 ug/l
RT: 7.226 min Scan# 902
Delta R.T. 0.017 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion:	43	Resp:	7929
Ion	Ratio	Lower	Upper
43	100		
72	34.6	22.2	33.4#

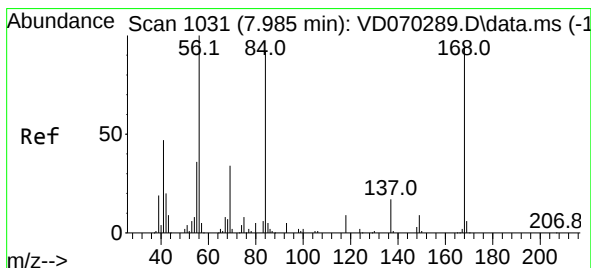
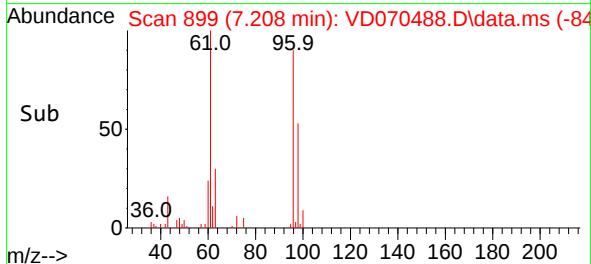
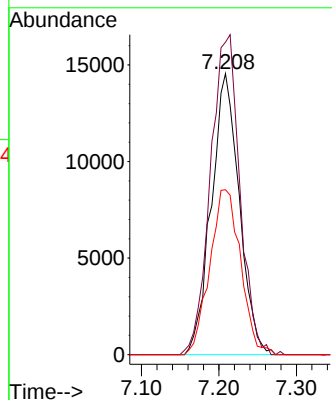
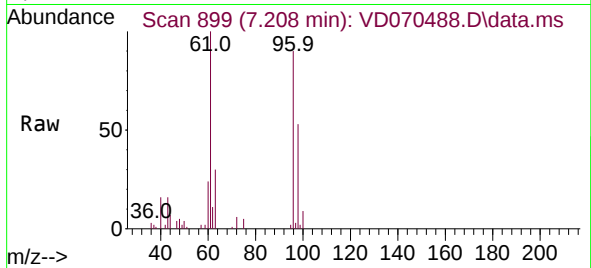




#27
 cis-1,2-Dichloroethene
 Concen: 25.508 ug/l
 RT: 7.208 min Scan# 899
 Delta R.T. -0.000 min
 Lab File: VD070488.D
 Acq: 27 Sep 2021 20:06

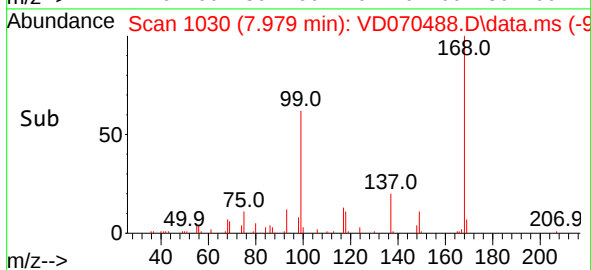
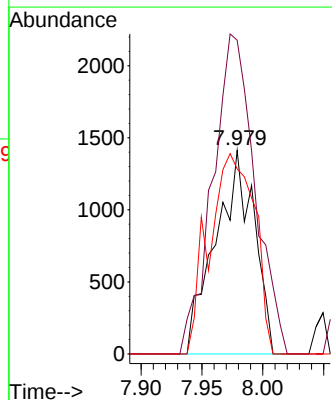
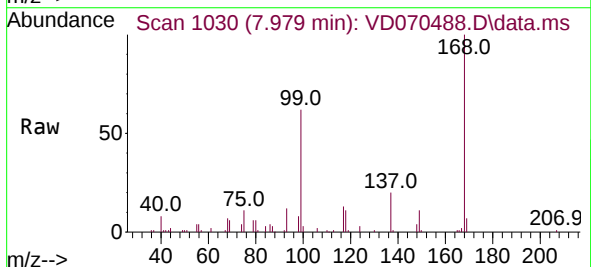
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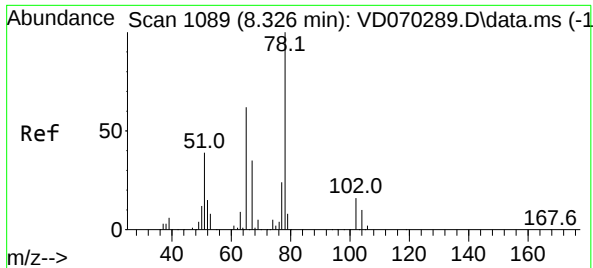
Tgt Ion:	96	Resp:	36541
Ion	Ratio	Lower	Upper
96	100		
61	119.1	0.0	277.4
98	64.6	0.0	130.0



#31
 Cyclohexane
 Concen: 1.465 ug/l
 RT: 7.979 min Scan# 1030
 Delta R.T. -0.006 min
 Lab File: VD070488.D
 Acq: 27 Sep 2021 20:06

Tgt Ion:	56	Resp:	3119
Ion	Ratio	Lower	Upper
56	100		
69	154.1	26.9	40.3#
84	90.9	73.6	110.4

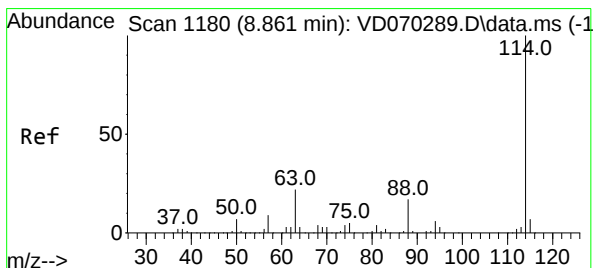
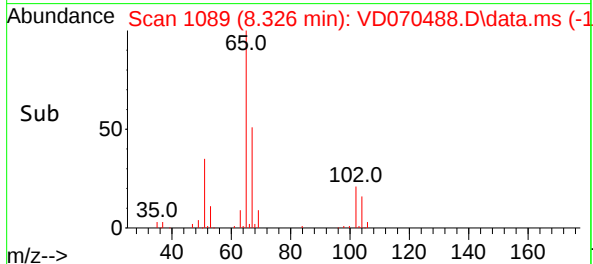
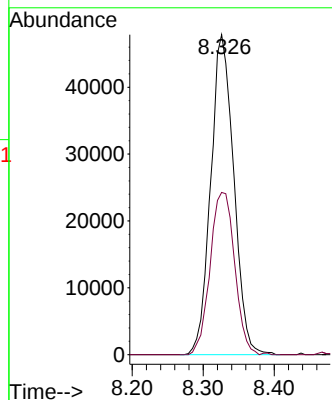
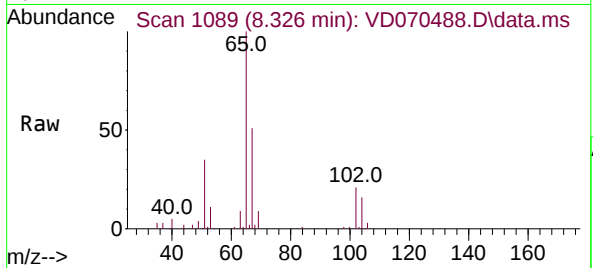




#33
1,2-Dichloroethane-d4
Concen: 87.195 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

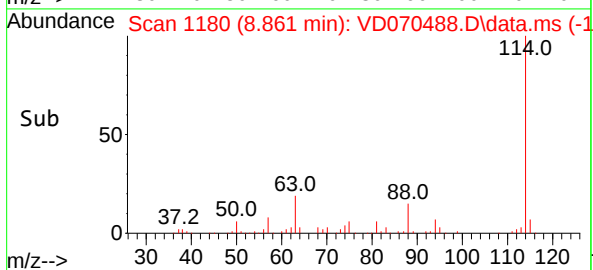
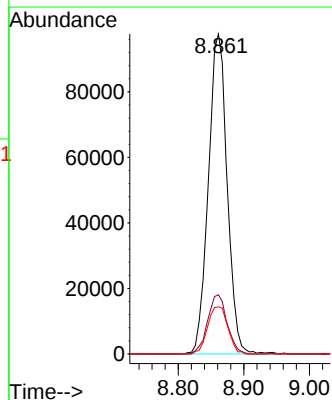
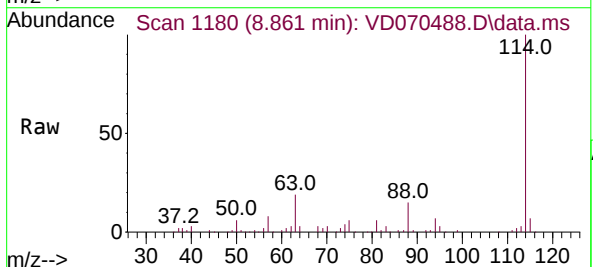
Instrument :
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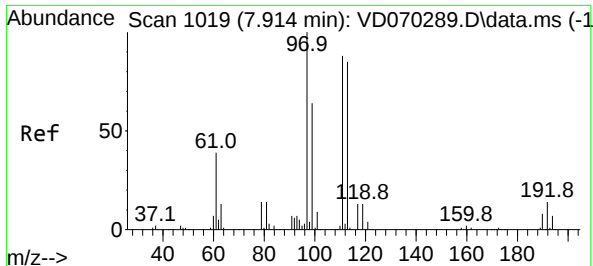
Tgt Ion: 65 Resp: 107734
Ion Ratio Lower Upper
65 100
67 54.1 0.0 111.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 114 Resp: 194688
Ion Ratio Lower Upper
114 100
63 18.5 0.0 43.4
88 14.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 67.000 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD070488.D

Acq: 27 Sep 2021 20:06

Tgt Ion:113 Resp: 92850

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.2

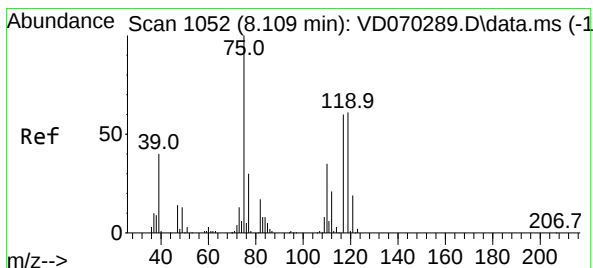
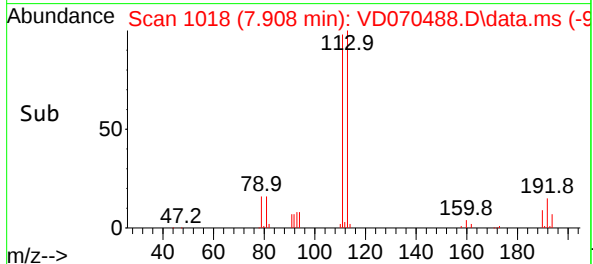
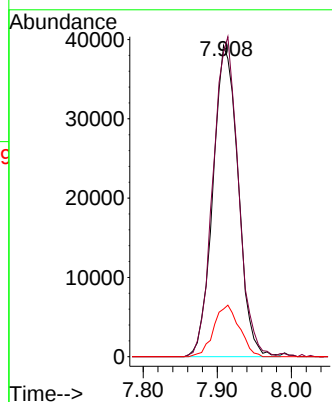
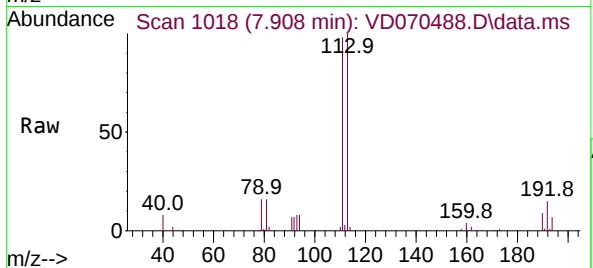
192 16.8 13.0 19.6

Instrument :

MSVOA_D

ClientSampleId :

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#36

1,1-Dichloropropene

Concen: 4.314 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.130 min

Lab File: VD070488.D

Acq: 27 Sep 2021 20:06

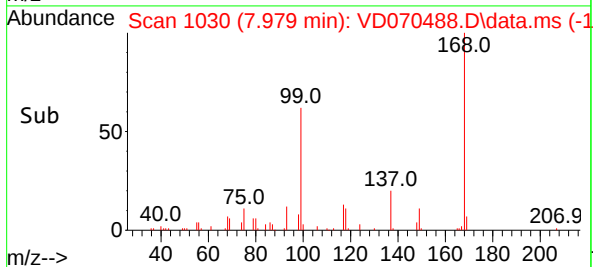
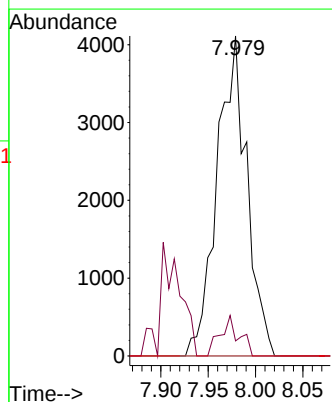
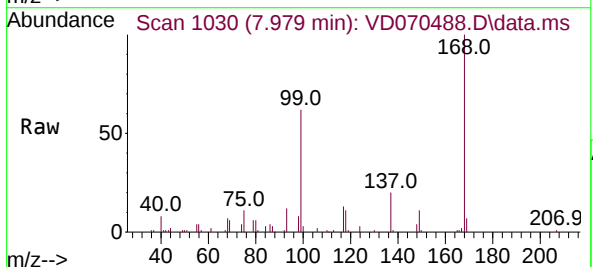
Tgt Ion: 75 Resp: 8977

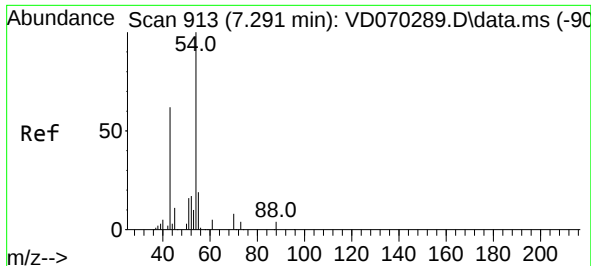
Ion Ratio Lower Upper

75 100

110 8.0 17.9 53.7#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 10.190 ug/l

RT: 7.226 min Scan# 902

Delta R.T. -0.065 min

Lab File: VD070488.D

Acq: 27 Sep 2021 20:06

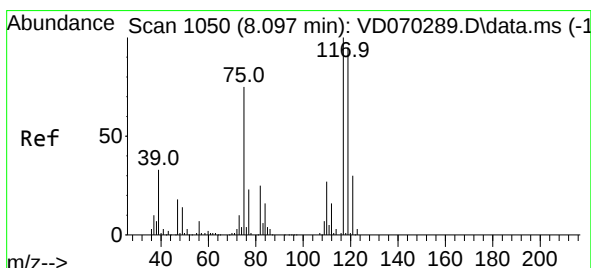
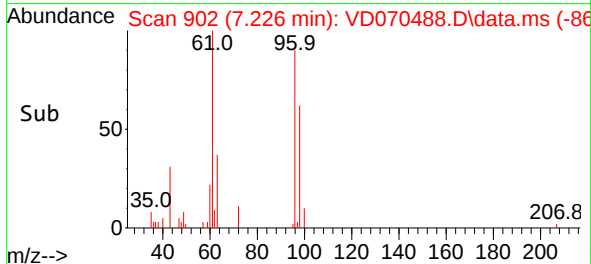
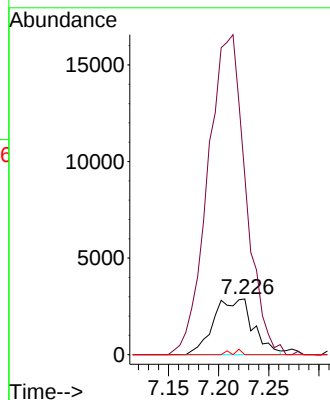
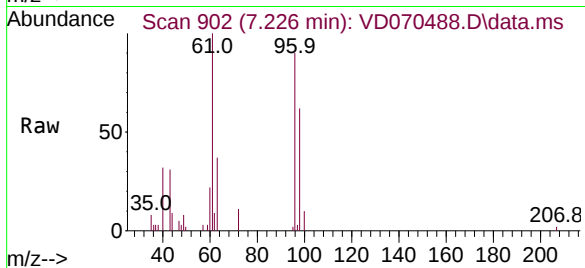
Instrument :

MSVOA_D

ClientSampleId :

BOILER-PIT-3-5

Tgt Ion:	43	Resp:	7929
Ion	Ratio	Lower	Upper
43	100		
61	549.0	13.0	19.6#
70	0.9	9.8	14.6#



#38

Carbon Tetrachloride

Concen: 5.389 ug/l

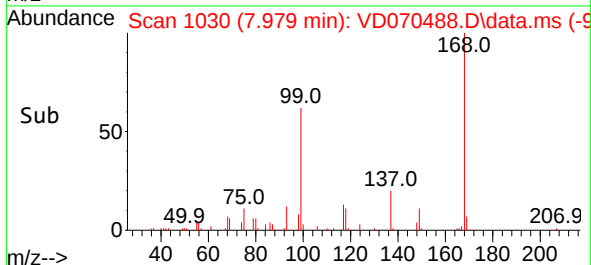
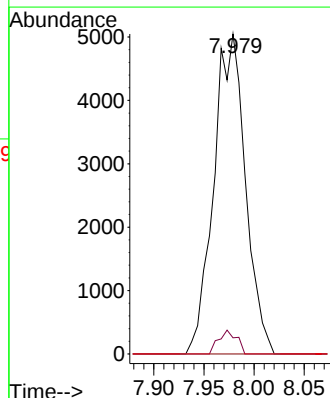
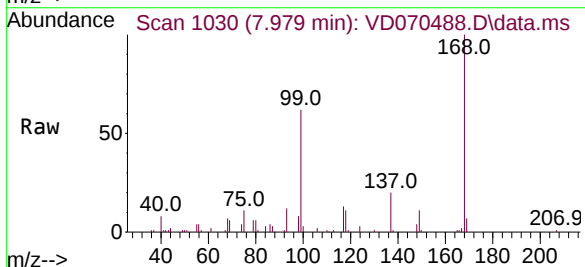
RT: 7.979 min Scan# 1030

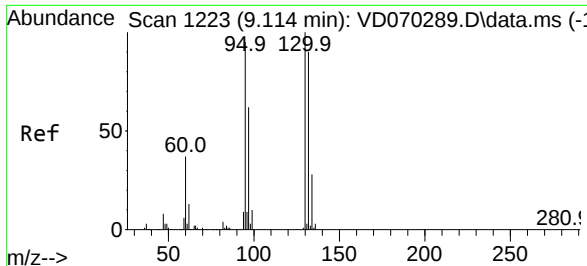
Delta R.T. -0.118 min

Lab File: VD070488.D

Acq: 27 Sep 2021 20:06

Tgt Ion:	117	Resp:	11091
Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.1	114.1#
121	0.0	23.8	35.6#

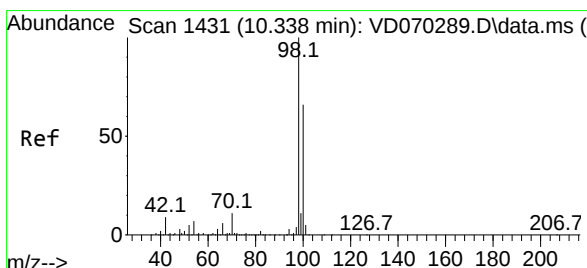
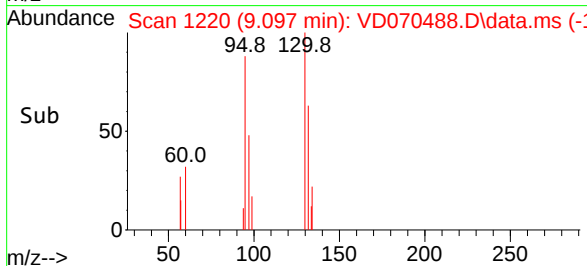
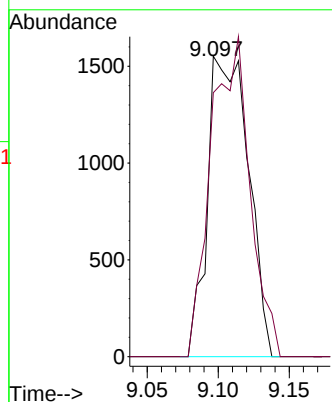
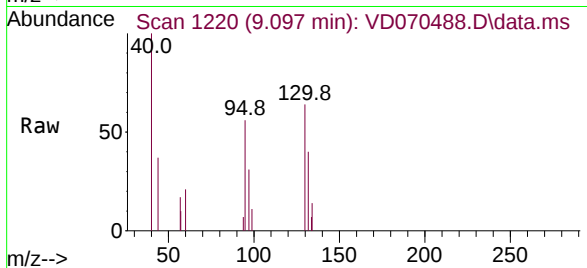




#44
Trichloroethene
Concen: 2.134 ug/l
RT: 9.097 min Scan# 1220
Delta R.T. -0.018 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

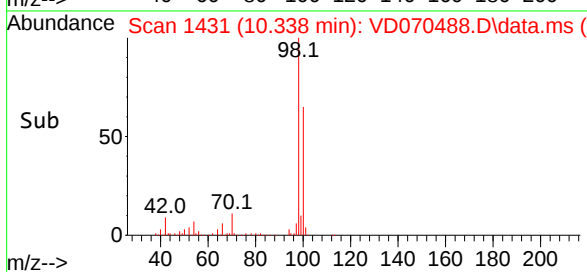
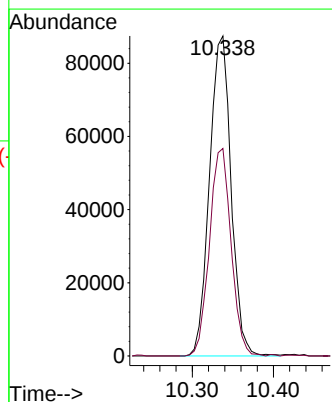
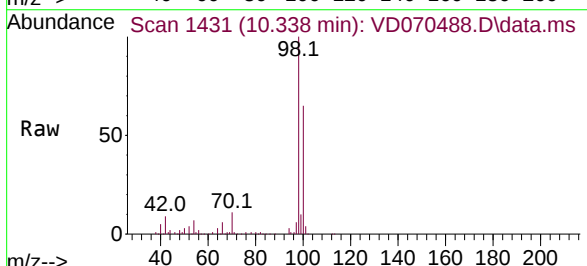
Instrument :
MSVOA_D
ClientSampleId :
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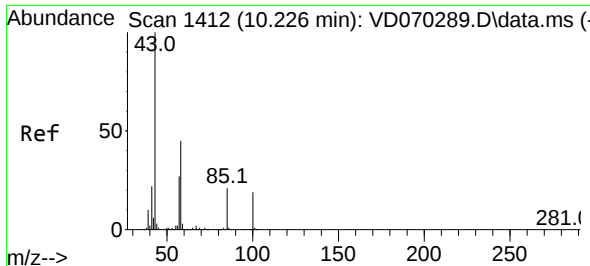
Tgt Ion:130 Resp: 3110
Ion Ratio Lower Upper
130 100
95 87.9 0.0 190.0



#50
Toluene-d8
Concen: 32.151 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 98 Resp: 161768
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0

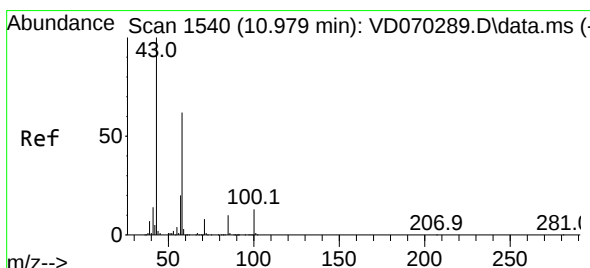
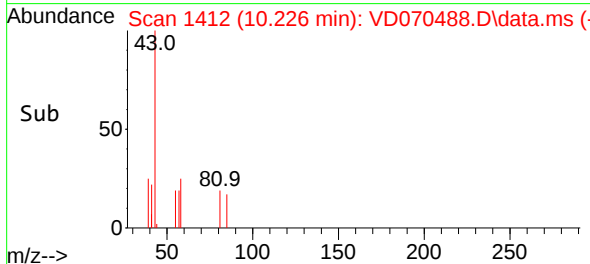
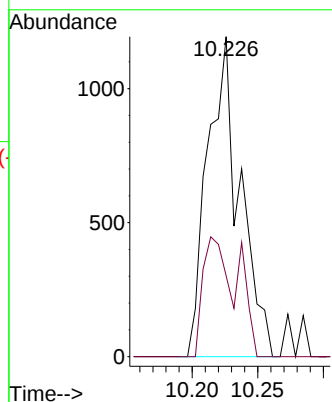
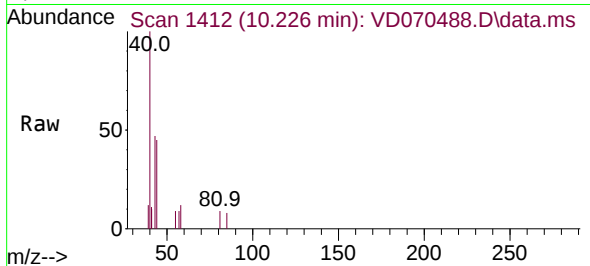




#51
4-Methyl-2-Pentanone
Concen: 2.751 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

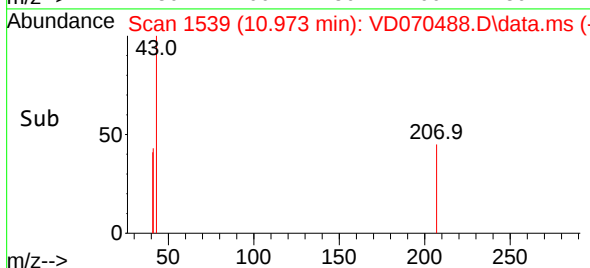
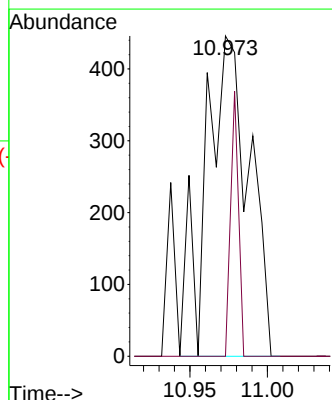
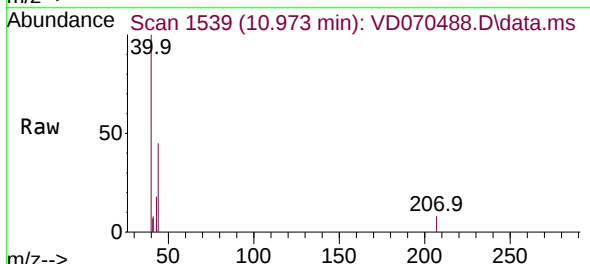
Instrument :
MSVOA_D
ClientSampleId :
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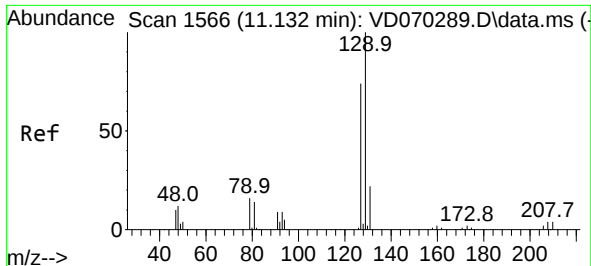
Tgt Ion: 43 Resp: 2048
Ion Ratio Lower Upper
43 100
58 39.3 35.4 53.2



#59
2-Hexanone
Concen: 1.757 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. -0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 43 Resp: 873
Ion Ratio Lower Upper
43 100
58 14.9 30.6 91.6#

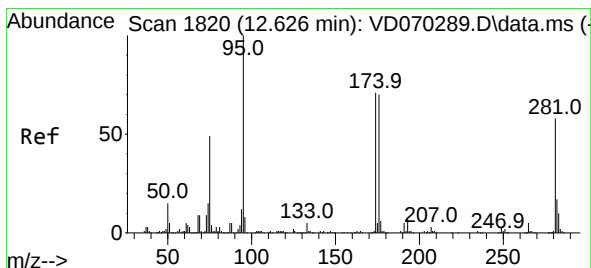
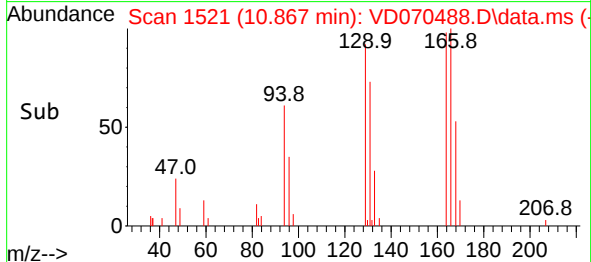
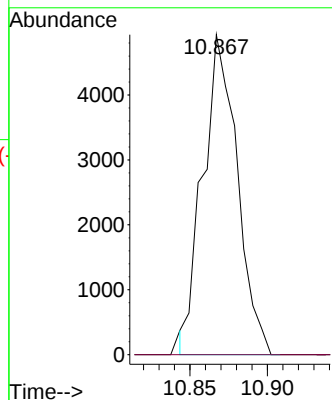
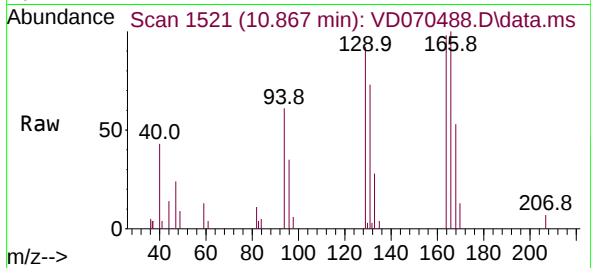




#60
Dibromochloromethane
Concen: 5.758 ug/l
RT: 10.867 min Scan# 1521
Delta R.T. -0.265 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

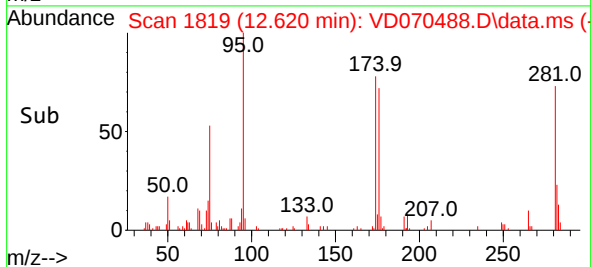
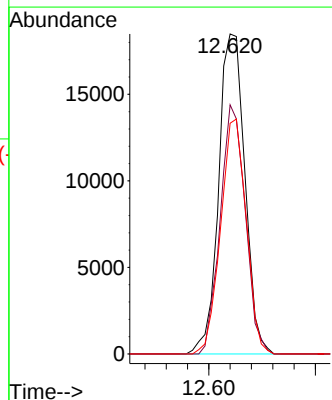
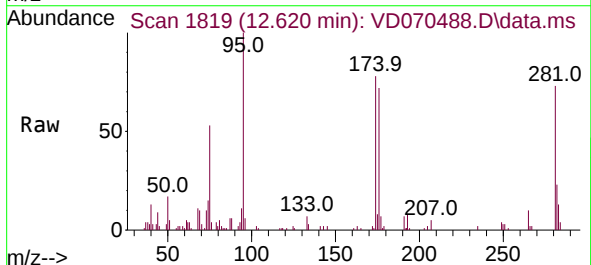
Instrument :
MSVOA_D
ClientSampleId :
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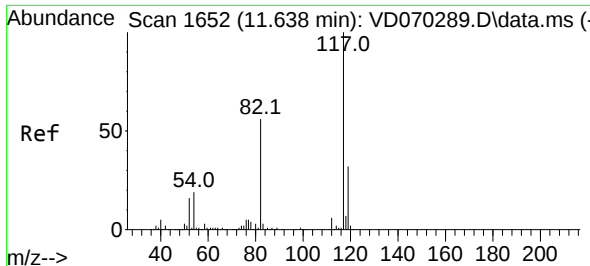
Tgt Ion:129 Resp: 7595
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#



#62
4-Bromofluorobenzene
Concen: 17.938 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 95 Resp: 31543
Ion Ratio Lower Upper
95 100
174 74.3 0.0 140.6
176 71.7 0.0 137.4

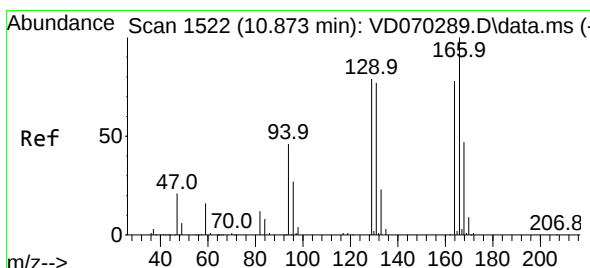
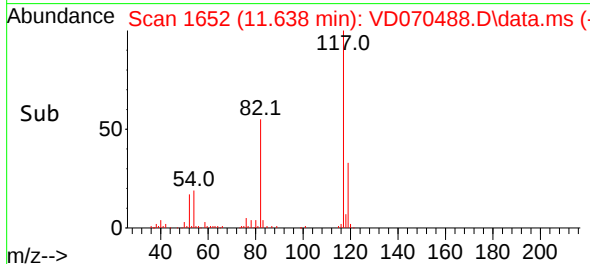
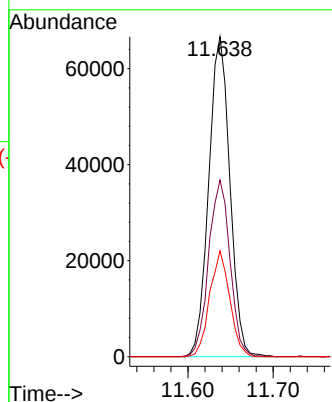
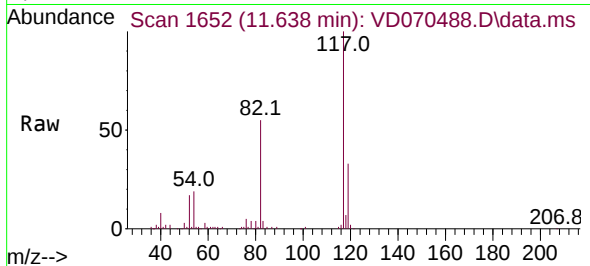




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

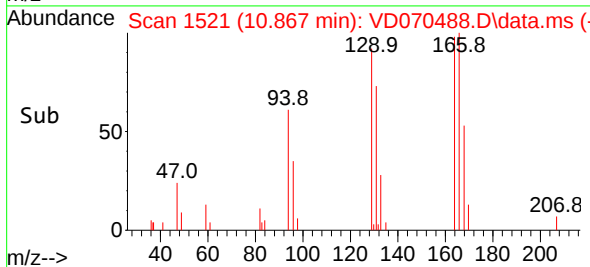
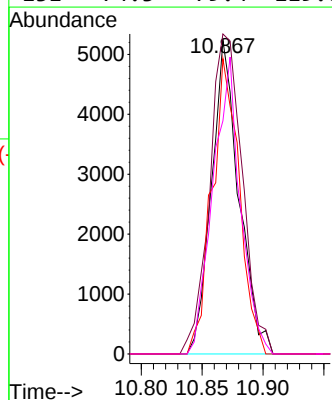
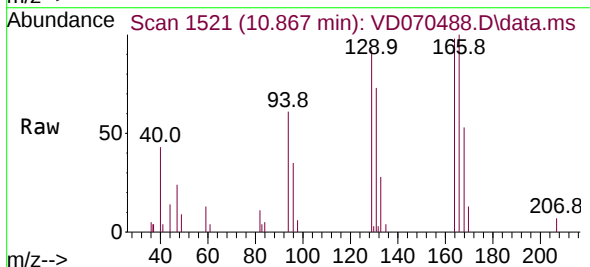
Instrument :
MSVOA_D
ClientSampleId :
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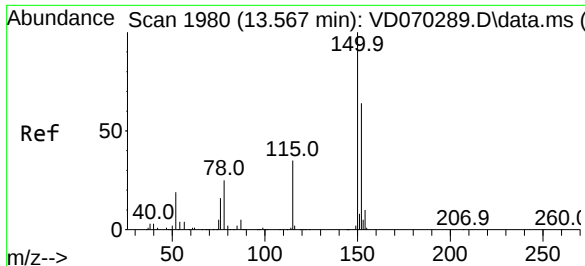
Tgt Ion:	117	Resp:	114991
Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.0	67.4
119	33.0	25.2	37.8



#64
Tetrachloroethene
Concen: 11.764 ug/l
RT: 10.867 min Scan# 1521
Delta R.T. -0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion:	164	Resp:	8236
Ion	Ratio	Lower	Upper
164	100		
166	102.0	102.4	153.6#
129	94.1	80.9	121.3
131	74.3	79.4	119.0#

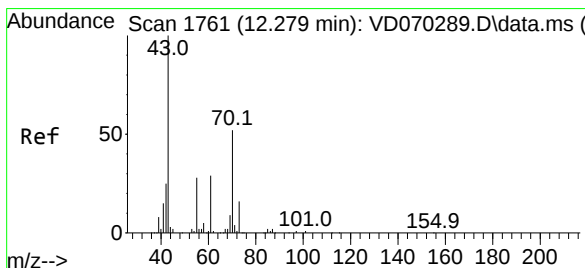
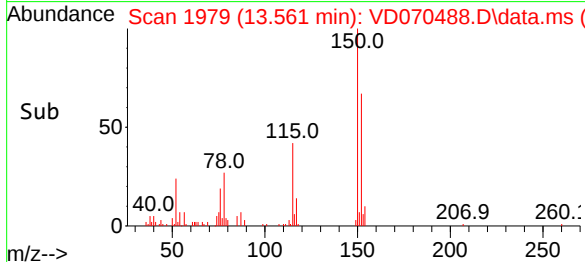
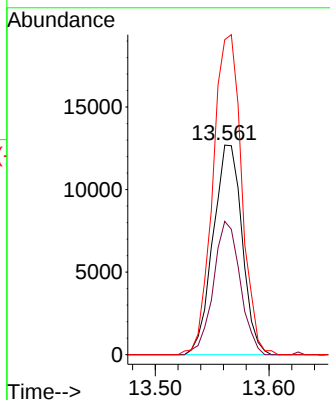
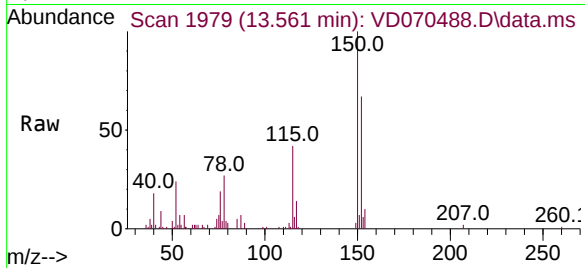




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

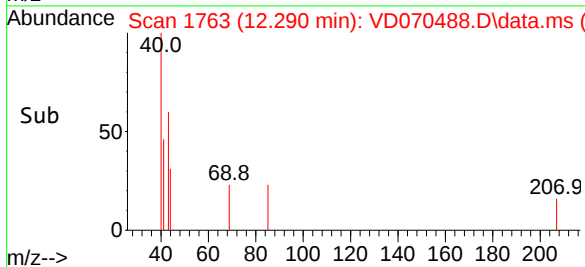
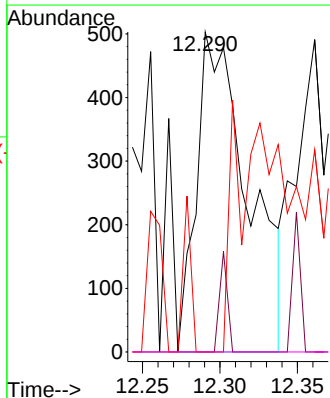
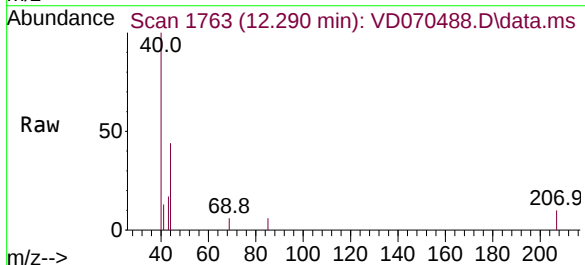
Instrument :
MSVOA_D
ClientSampleId :
BOILER-PIT-3-5

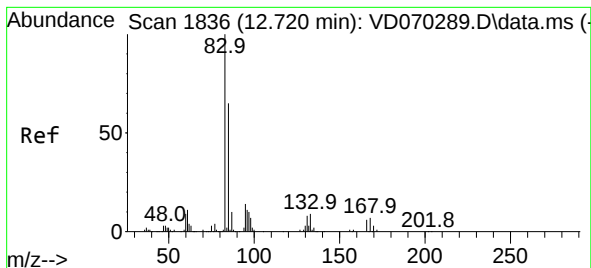
Tgt Ion:152 Resp: 22514
Ion Ratio Lower Upper
152 100
115 59.0 32.1 96.3
150 151.5 0.0 350.6



#74
N-ethyl acetate
Concen: 3.375 ug/l
RT: 12.290 min Scan# 1763
Delta R.T. 0.012 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 43 Resp: 1161
Ion Ratio Lower Upper
43 100
70 4.8 41.4 62.0#
55 76.7 22.8 34.2#
61 0.0 21.8 32.6#



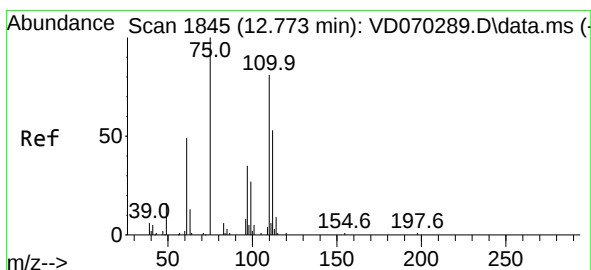
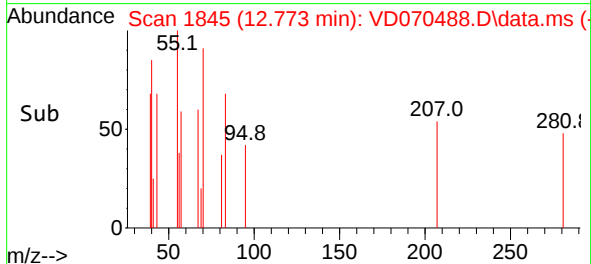
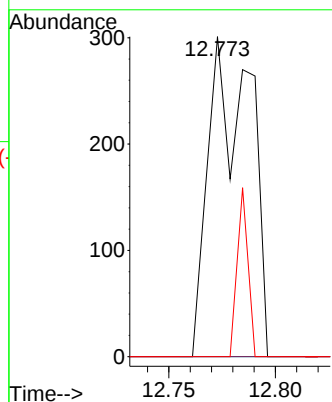
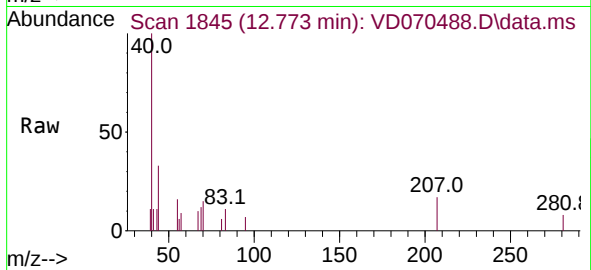


#75

1,1,2,2-Tetrachloroethane
Concen: 1.207 ug/l
RT: 12.773 min Scan# 1845
Delta R.T. 0.053 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Instrument :
MSVOA_D
ClientSampleId :
BOILER-PIT-3-5

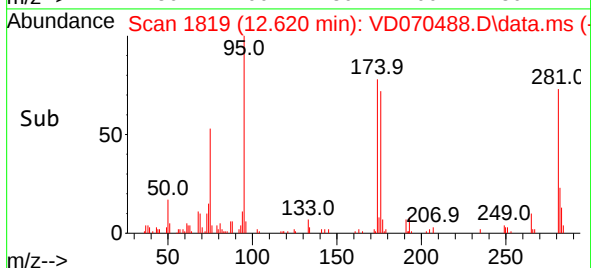
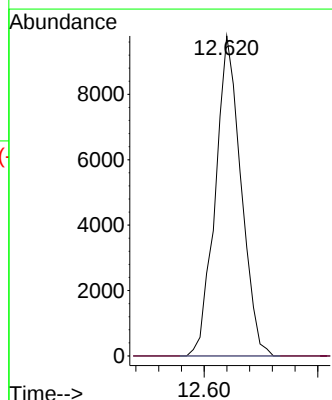
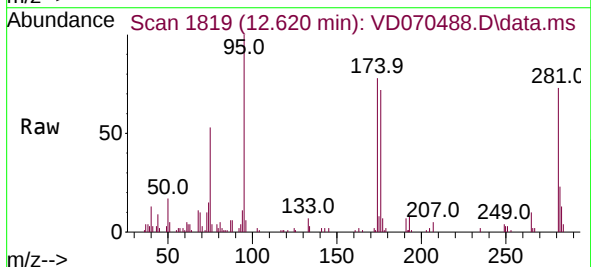
Tgt Ion: 83 Resp: 408
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 13.7 32.1 96.3#

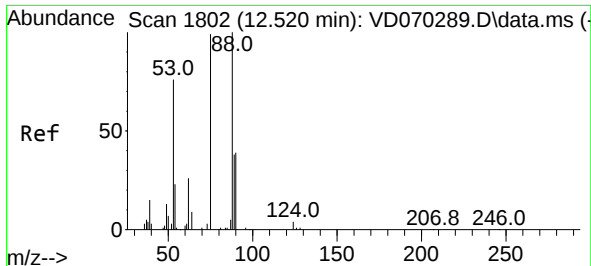


#76

1,2,3-Trichloropropane
Concen: 67.518 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070488.D
Acq: 27 Sep 2021 20:06

Tgt Ion: 75 Resp: 15376
Ion Ratio Lower Upper
75 100
77 0.0 174.9 524.7#

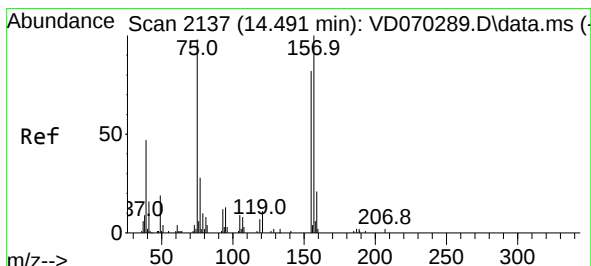
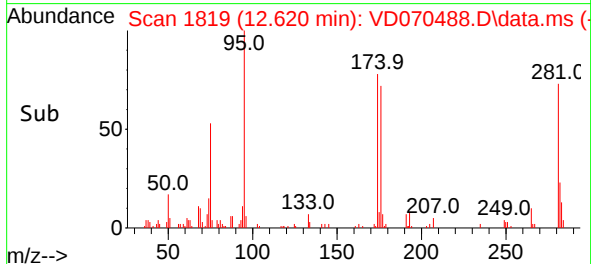
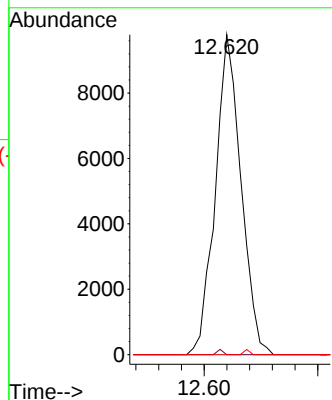
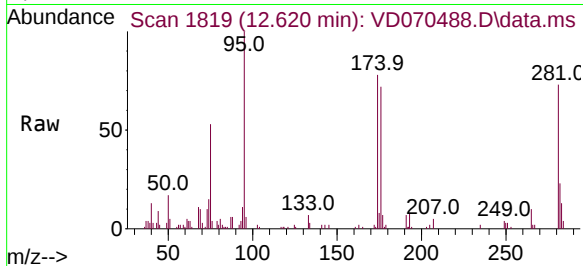




#81
 trans-1,4-Dichloro-2-butene
 Concen: 169.172 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. 0.100 min
 Lab File: VD070488.D
 Acq: 27 Sep 2021 20:06

Instrument :
 MSVOA_D
 ClientSampleId :
 BOILER-PIT-3-5

Tgt Ion: 75 Resp: 15376
 Ion Ratio Lower Upper
 75 100
 53 0.4 64.2 96.2#
 89 0.0 35.6 53.4#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.362 ug/l
 RT: 14.637 min Scan# 2162
 Delta R.T. 0.147 min
 Lab File: VD070488.D
 Acq: 27 Sep 2021 20:06

Tgt Ion: 75 Resp: 69
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.3 120.9#
 157 0.0 48.9 146.6#

