

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072721\
 Data File : VY005465.D
 Acq On : 27 Jul 2021 15:28
 Operator : SY/MD
 Sample : M3198-01
 Misc : 5.05G/5ML/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jul 28 02:33:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y072221S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 23 06:20:14 2021
 Response via : Initial Calibration

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

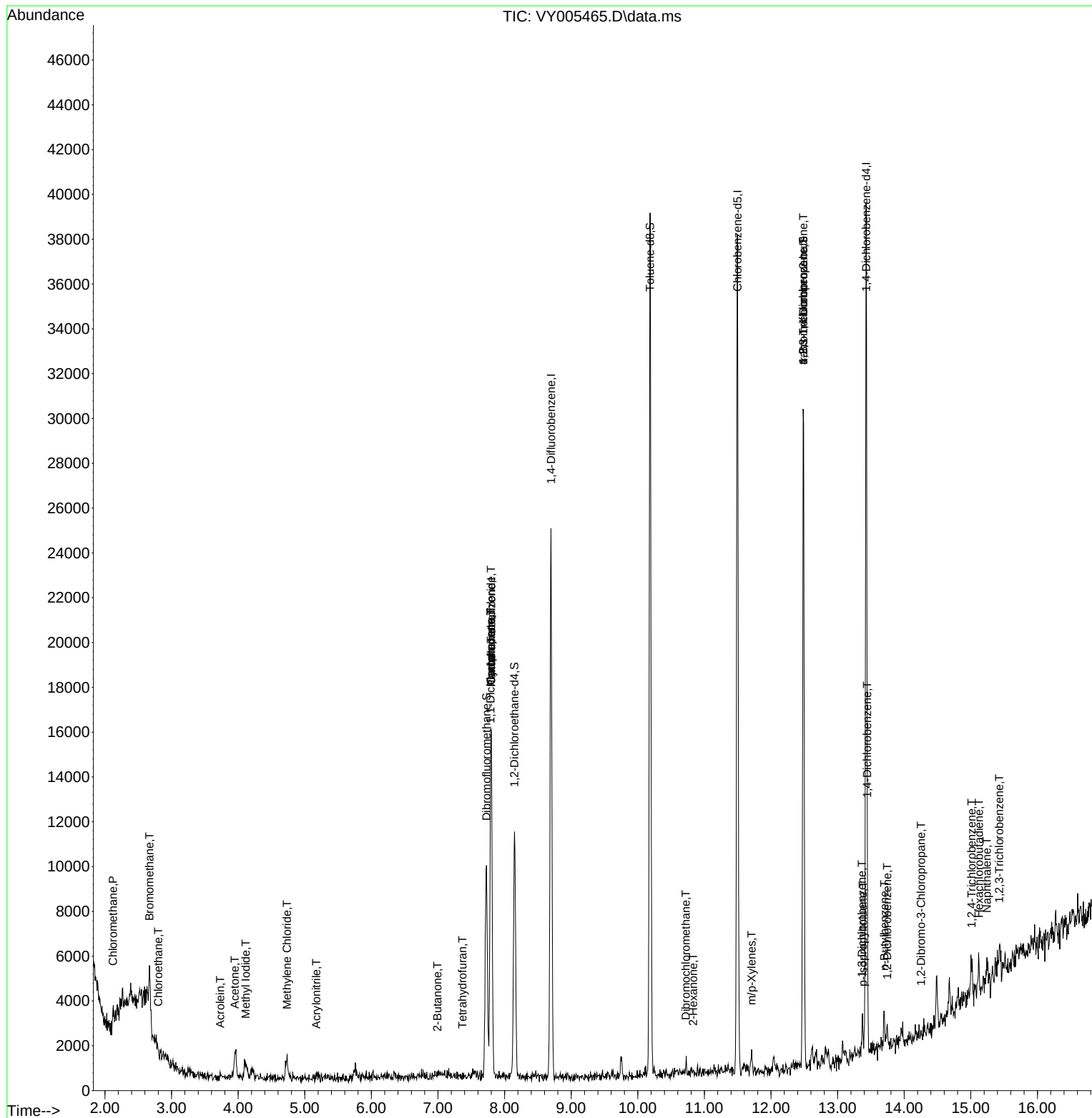
Internal Standards						
1) Pentafluorobenzene	7.801	168	13042	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	19877	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	20424	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	9272	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.148	65	8893	63.826	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 127.660%	
35) Dibromofluoromethane	7.728	113	6460	56.286	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 112.580%	
50) Toluene-d8	10.184	98	25208	51.821	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 103.640%	
62) 4-Bromofluorobenzene	12.483	95	8685	54.096	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 108.200%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	445	3.075	ug/l #	42
5) Bromomethane	2.667	94	780	6.193	ug/l	82
6) Chloroethane	2.802	64	117	1.081	ug/l #	42
10) Methyl Iodide	4.112	142	1249	8.985	ug/l #	93
13) Acrolein	3.728	56	25	2.074	ug/l #	15
15) Acrylonitrile	5.173	53	97	2.462	ug/l #	39
16) Acetone	3.948	43	2086	65.557	ug/l	90
20) Methylene Chloride	4.734	84	591	2.154	ug/l	92
25) 2-Butanone	6.990	43	61	1.280	ug/l #	47
29) Tetrahydrofuran	7.368	42	46	1.458	ug/l #	33
31) Cyclohexane	7.795	56	270	1.135	ug/l #	61
36) 1,1-Dichloropropene	7.789	75	988	5.141	ug/l #	41
38) Carbon Tetrachloride	7.795	117	1369	6.518	ug/l #	12
59) 2-Hexanone	10.831	43	119	1.510	ug/l #	25
60) Dibromochloromethane	10.721	129	133	1.014	ug/l #	11
68) m/p-Xylenes	11.709	106	328	1.109	ug/l	94
76) 1,2,3-Trichloropropane	12.483	75	4598	50.398	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	4598	97.858	ug/l #	11
86) p-Isopropyltoluene	13.379	119	675	1.143	ug/l #	84
87) 1,3-Dichlorobenzene	13.367	146	506	1.648	ug/l	89
88) 1,4-Dichlorobenzene	13.446	146	451	1.482	ug/l	83
89) n-Butylbenzene	13.702	91	548	1.011	ug/l	95
91) 1,2-Dichlorobenzene	13.745	146	389	1.419	ug/l #	55
92) 1,2-Dibromo-3-Chloropr...	14.251	75	29	1.225	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.013	180	622	3.287	ug/l	97
94) Hexachlorobutadiene	15.123	225	299	2.493	ug/l	78
95) Naphthalene	15.238	128	1452	3.815	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.427	180	547	3.207	ug/l	91

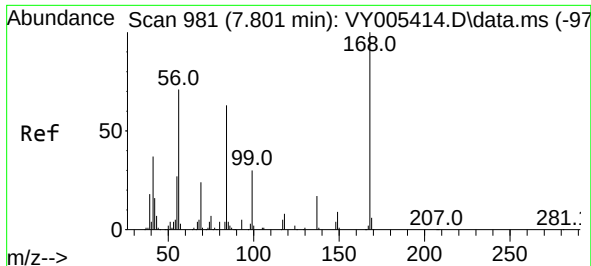
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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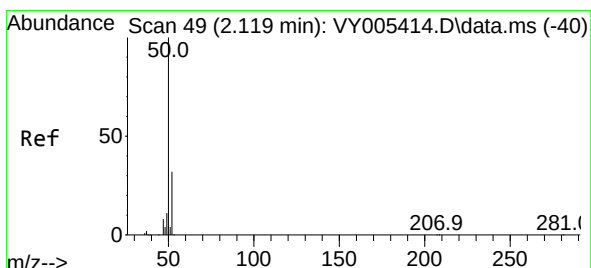
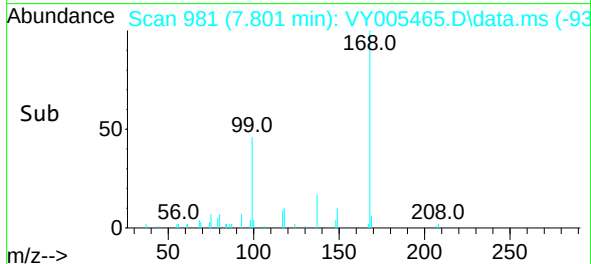
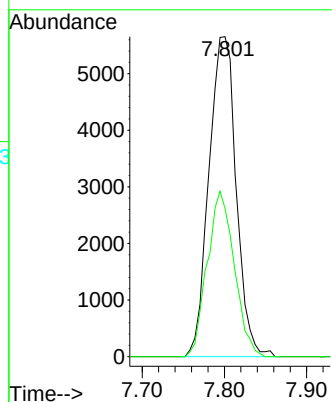
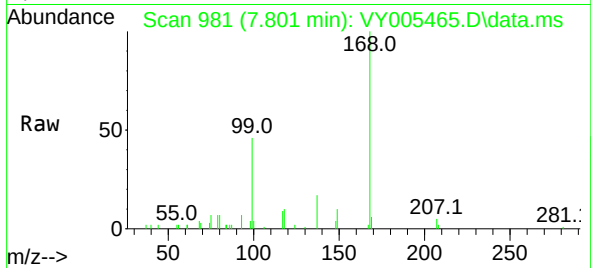




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

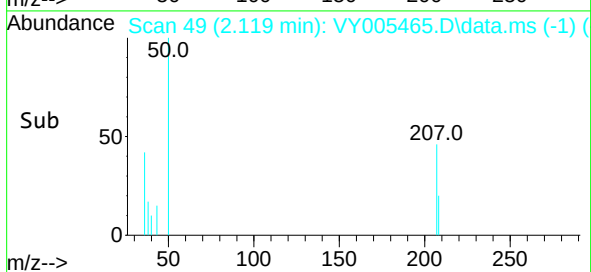
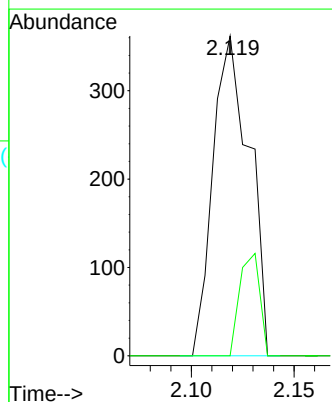
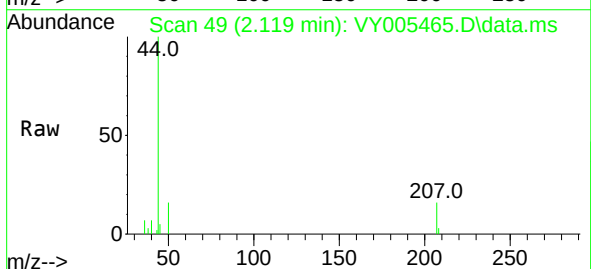
Instrument :
MSVOA_Y
ClientSampled :

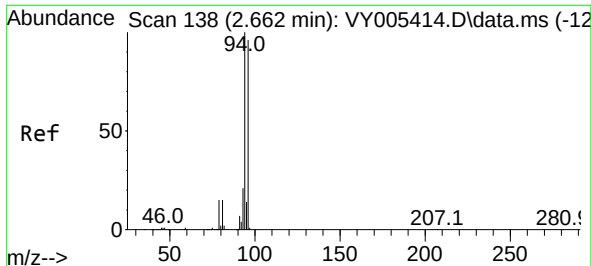
Tgt Ion:168 Resp: 13042
Ion Ratio Lower Upper
168 100
99 46.3 39.8 59.6



#3
Chloromethane
Concen: 3.075 ug/l
RT: 2.119 min Scan# 49
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 50 Resp: 445
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

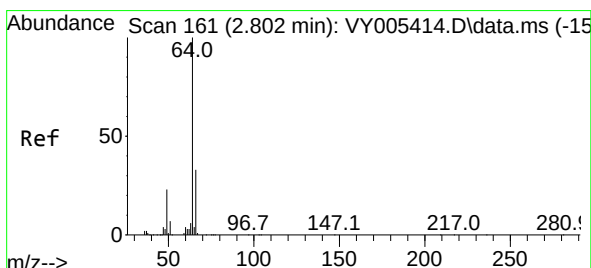
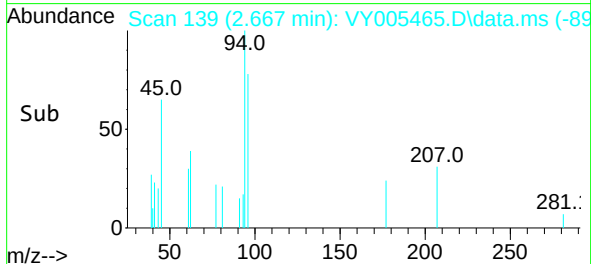
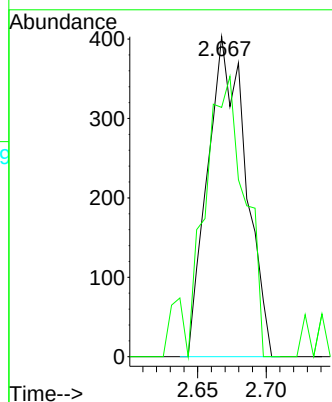
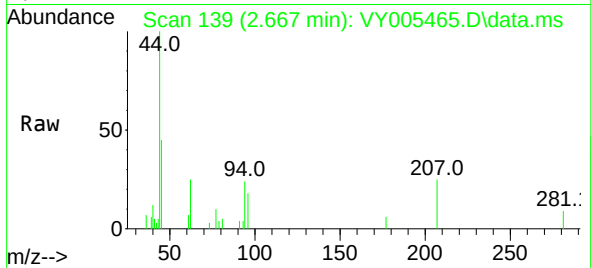




#5
Bromomethane
Concen: 6.193 ug/l
RT: 2.667 min Scan# 139
Delta R.T. 0.006 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

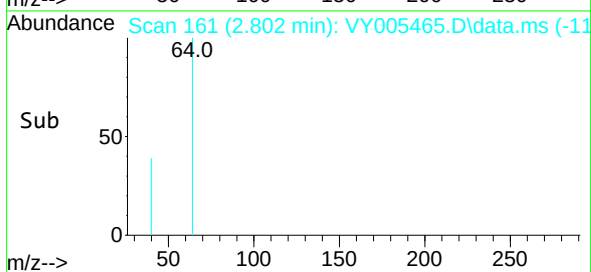
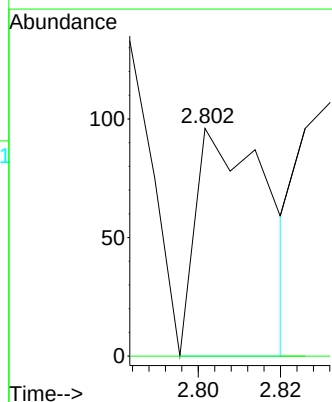
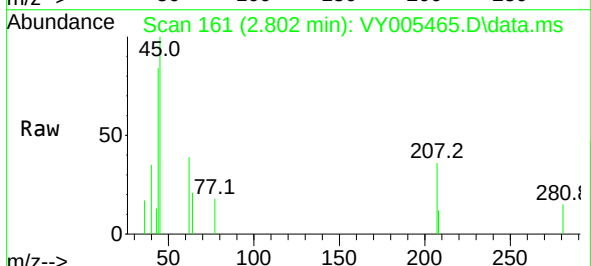
Instrument :
MSVOA_Y
ClientSampled :

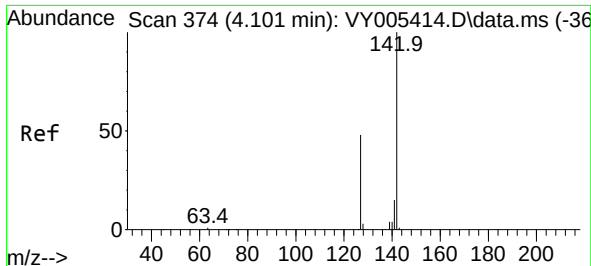
Tgt Ion: 94 Resp: 780
Ion Ratio Lower Upper
94 100
96 77.9 76.6 115.0



#6
Chloroethane
Concen: 1.081 ug/l
RT: 2.802 min Scan# 161
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 64 Resp: 117
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#





#10

Methyl Iodide

Concen: 8.985 ug/l

RT: 4.112 min Scan# 376

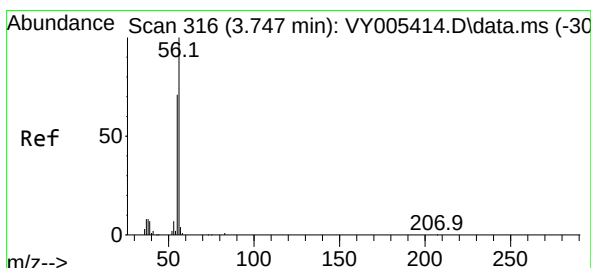
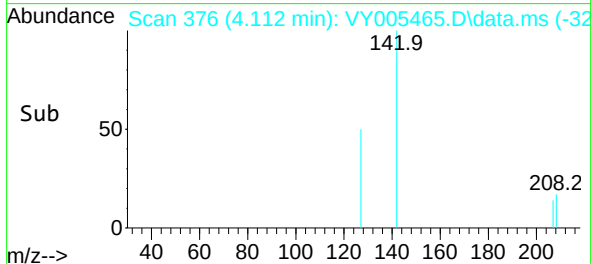
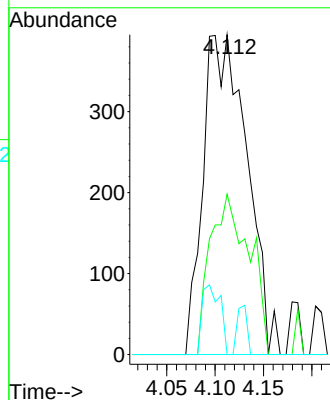
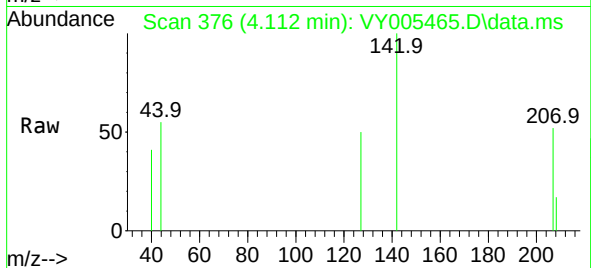
Delta R.T. 0.012 min

Lab File: VY005465.D

Acq: 27 Jul 2021 15:28

Tgt Ion:	142	Resp:	1249
Ion	Ratio	Lower	Upper
142	100		
127	44.6	38.2	57.4
141	8.9	12.0	18.0#

Instrument :
MSVOA_Y
ClientSampleId :



#13

Acrolein

Concen: 2.074 ug/l

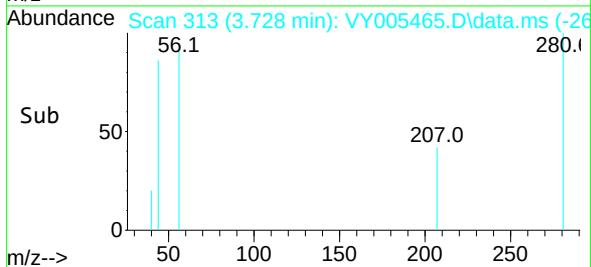
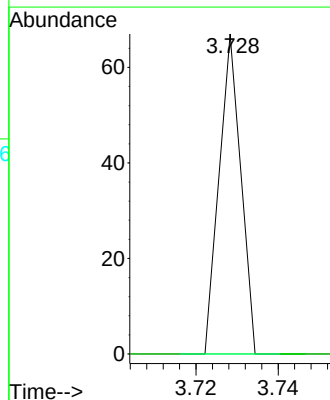
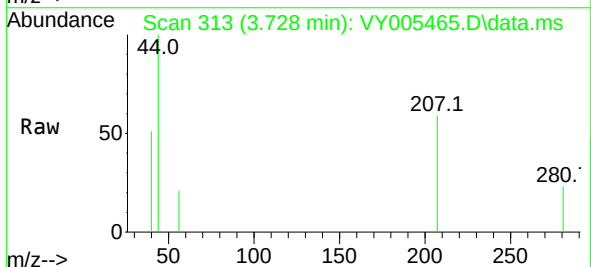
RT: 3.728 min Scan# 313

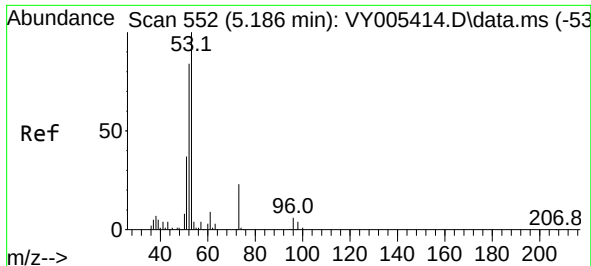
Delta R.T. -0.019 min

Lab File: VY005465.D

Acq: 27 Jul 2021 15:28

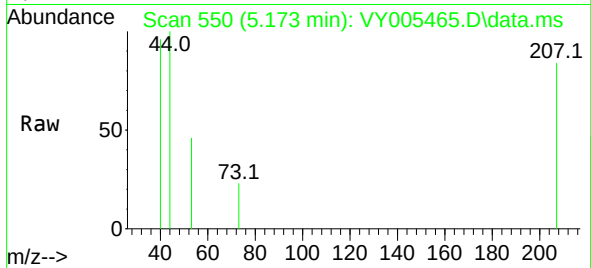
Tgt Ion:	56	Resp:	25
Ion	Ratio	Lower	Upper
56	100		
55	0.0	55.2	82.8#



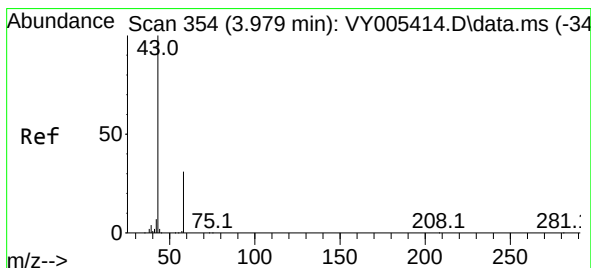
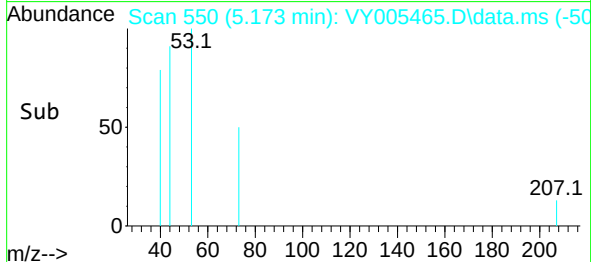
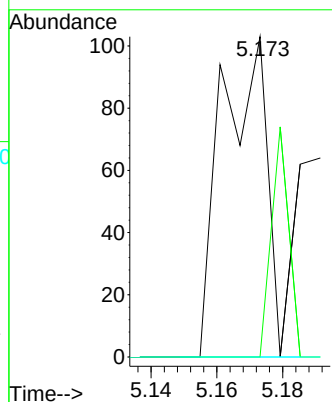


#15
Acrylonitrile
Concen: 2.462 ug/l
RT: 5.173 min Scan# 550
Delta R.T. -0.013 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Instrument :
MSVOA_Y
ClientSampleId :

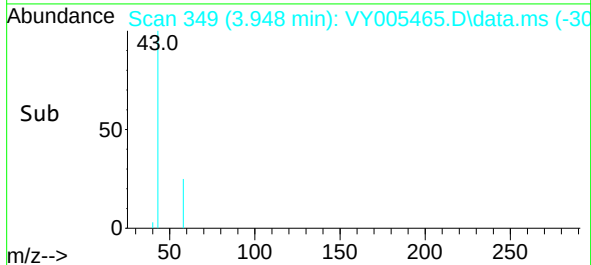
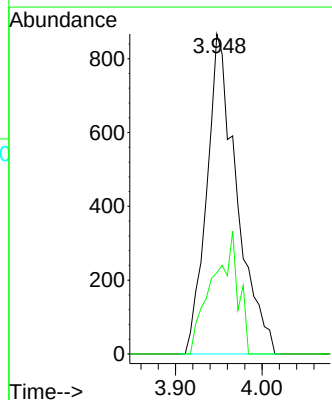
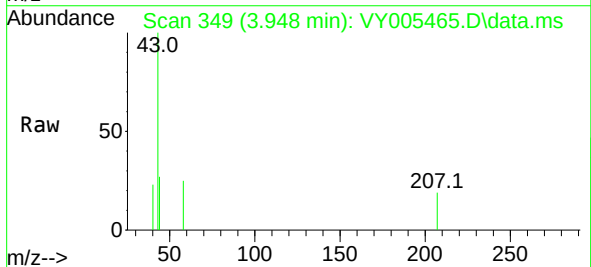


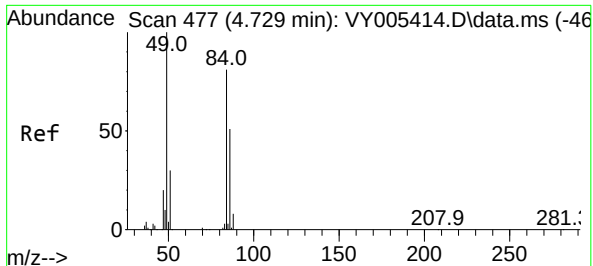
Tgt Ion: 53 Resp: 97
Ion Ratio Lower Upper
53 100
52 27.8 65.8 98.6#
51 0.0 29.1 43.7#



#16
Acetone
Concen: 65.557 ug/l
RT: 3.948 min Scan# 349
Delta R.T. -0.031 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

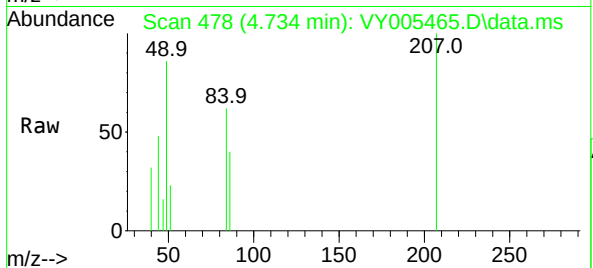
Tgt Ion: 43 Resp: 2086
Ion Ratio Lower Upper
43 100
58 25.4 24.5 36.7



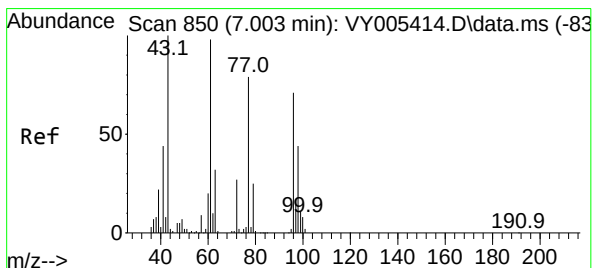
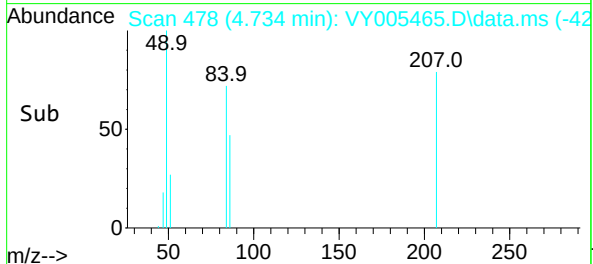
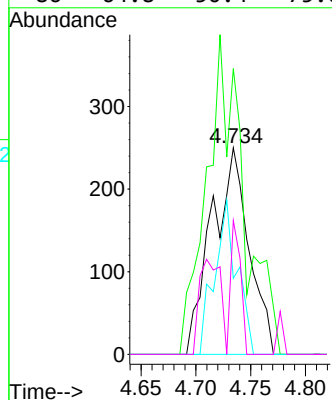


#20
Methylene Chloride
Concen: 2.154 ug/l
RT: 4.734 min Scan# 478
Delta R.T. 0.005 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Instrument :
MSVOA_Y
ClientSampleId :

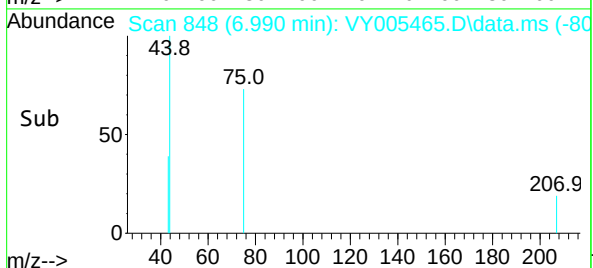
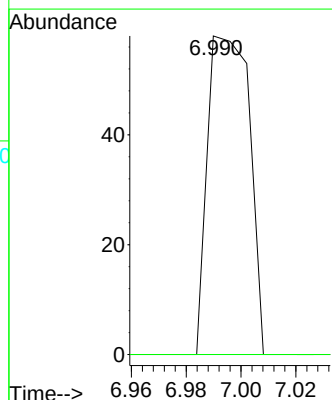
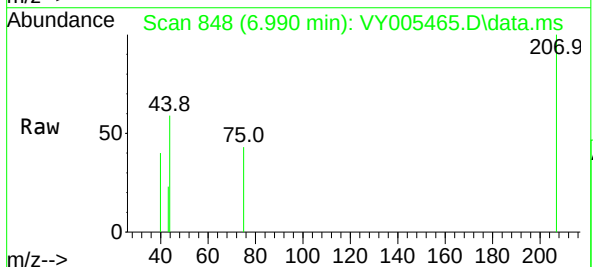


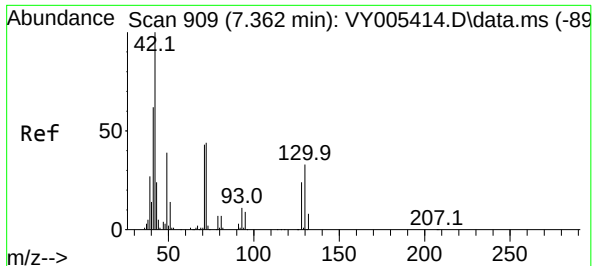
Tgt Ion:	84	Resp:	591
Ion	Ratio	Lower	Upper
84	100		
49	138.4	98.9	148.3
51	36.8	30.0	45.0
86	64.8	50.4	75.6



#25
2-Butanone
Concen: 1.280 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.013 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion:	43	Resp:	61
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.9	32.9#





#29

Tetrahydrofuran

Concen: 1.458 ug/l

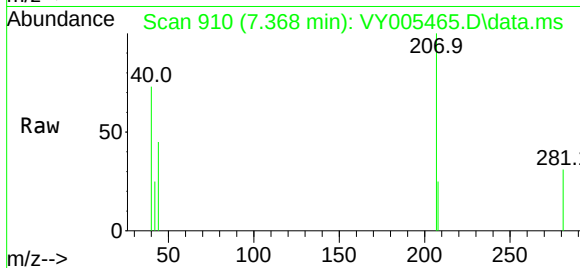
RT: 7.368 min Scan# 910

Delta R.T. 0.006 min

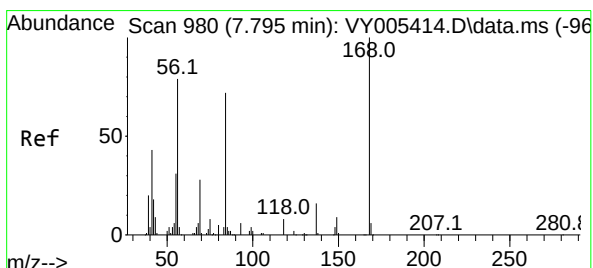
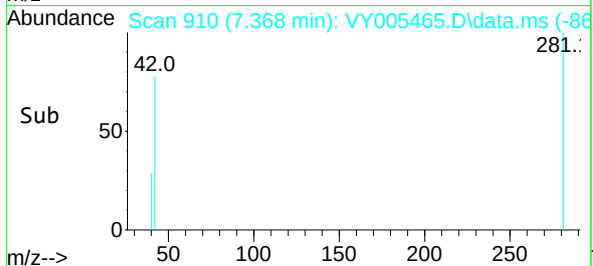
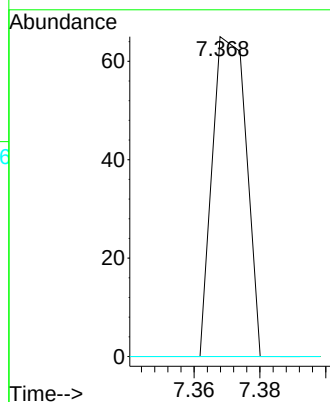
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Tgt Ion:	42	Resp:	46
Ion Ratio	Lower	Upper	
42	100		
72	0.0	35.3	52.9#
71	0.0	33.4	50.2#



#31

Cyclohexane

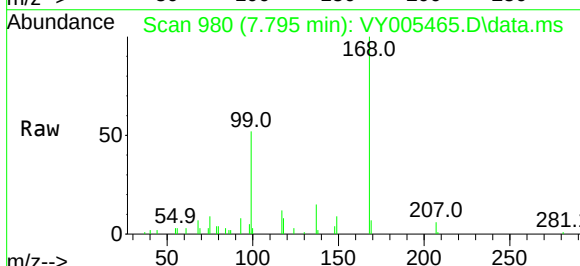
Concen: 1.135 ug/l

RT: 7.795 min Scan# 980

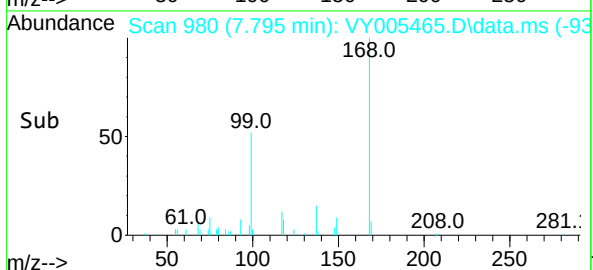
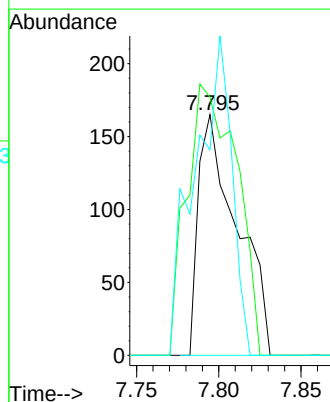
Delta R.T. -0.000 min

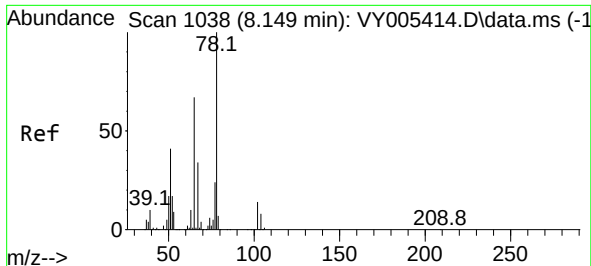
Lab File: VY005465.D

Acq: 27 Jul 2021 15:28



Tgt Ion:	56	Resp:	270
Ion Ratio	Lower	Upper	
56	100		
69	107.3	28.7	43.1#
84	85.5	73.0	109.6

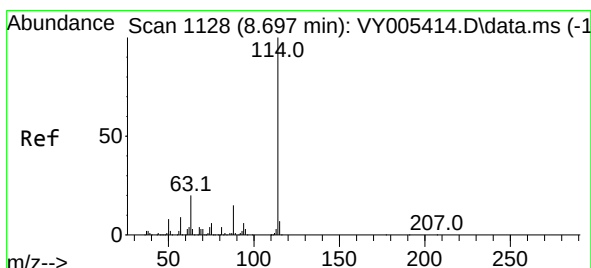
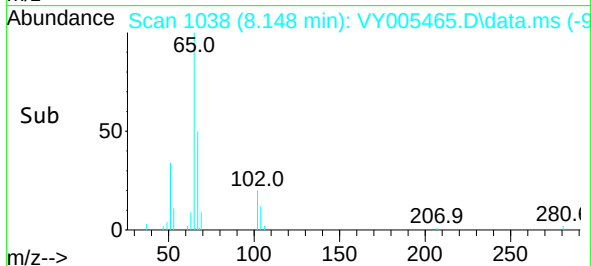
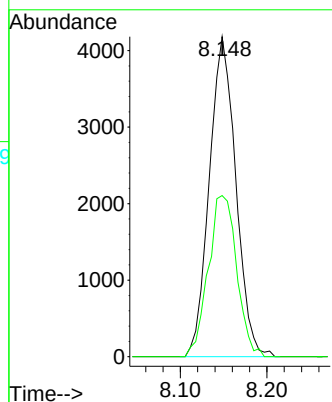
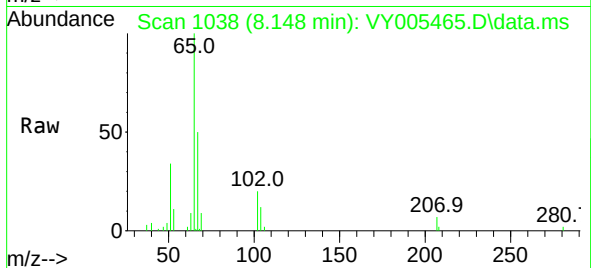




#33
1,2-Dichloroethane-d4
Concen: 63.826 ug/l
RT: 8.148 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

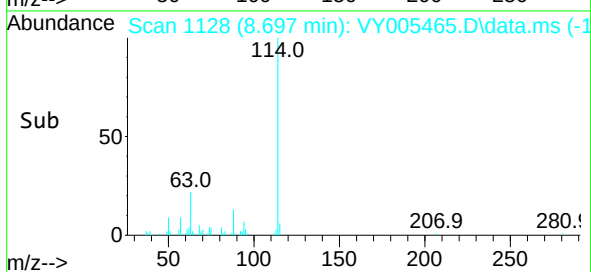
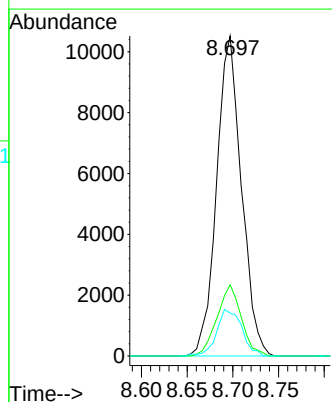
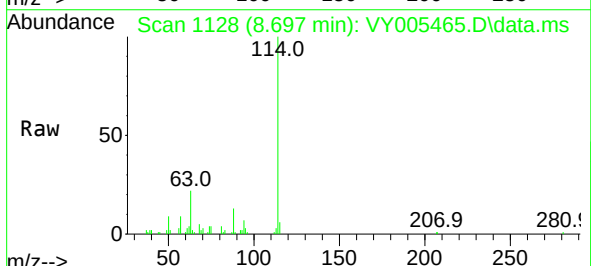
Instrument :
MSVOA_Y
ClientSampled :

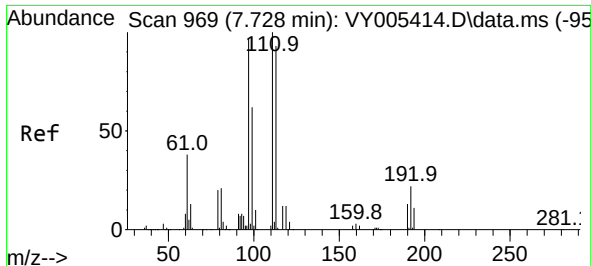
Tgt Ion: 65 Resp: 8893
Ion Ratio Lower Upper
65 100
67 54.0 0.0 102.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

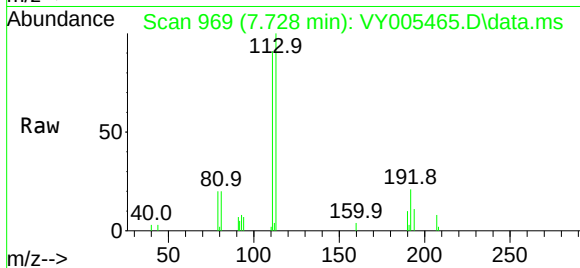
Tgt Ion: 114 Resp: 19877
Ion Ratio Lower Upper
114 100
63 22.2 0.0 39.0
88 13.4 0.0 30.8



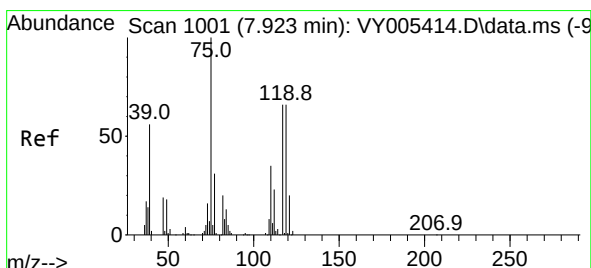
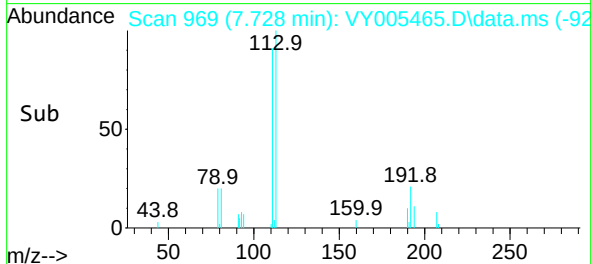
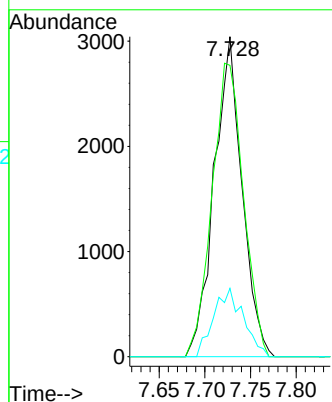


#35
Dibromofluoromethane
Concen: 56.286 ug/l
RT: 7.728 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Instrument :
MSVOA_Y
ClientSampleId :

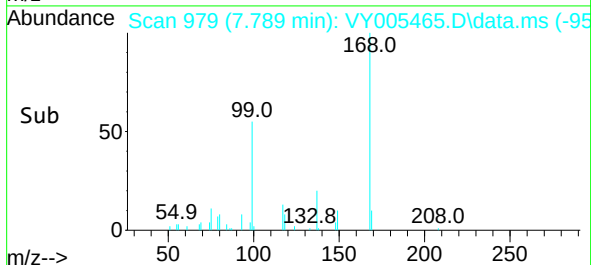
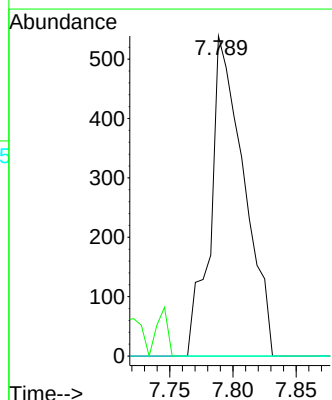
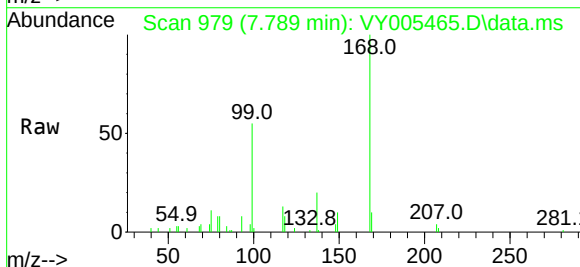


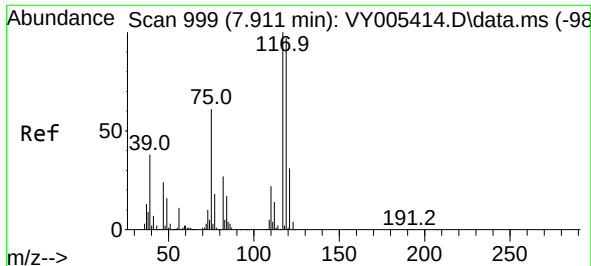
Tgt Ion:113 Resp: 6460
Ion Ratio Lower Upper
113 100
111 103.3 82.6 124.0
192 22.8 18.9 28.3



#36
1,1-Dichloropropene
Concen: 5.141 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.135 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 75 Resp: 988
Ion Ratio Lower Upper
75 100
110 0.0 17.6 52.9#
77 0.0 24.6 37.0#

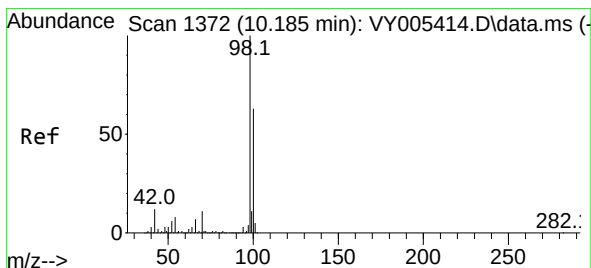
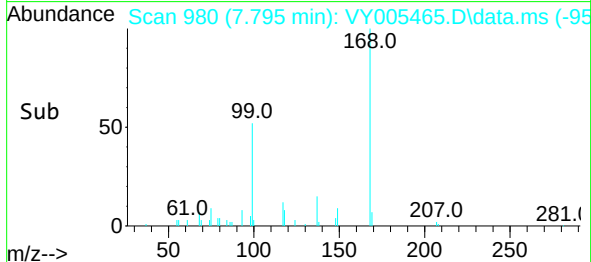
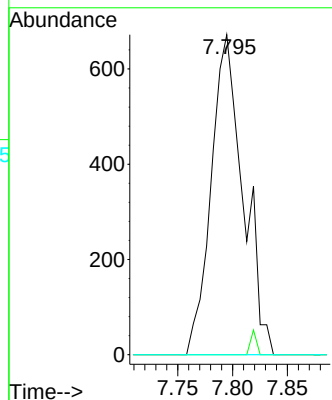
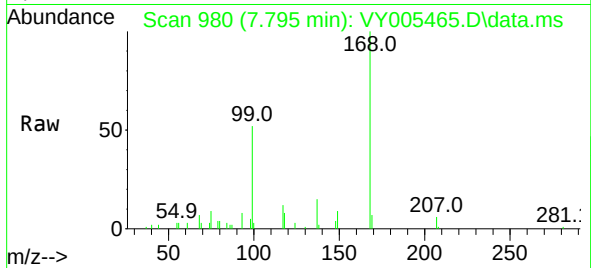




#38
Carbon Tetrachloride
Concen: 6.518 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.116 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

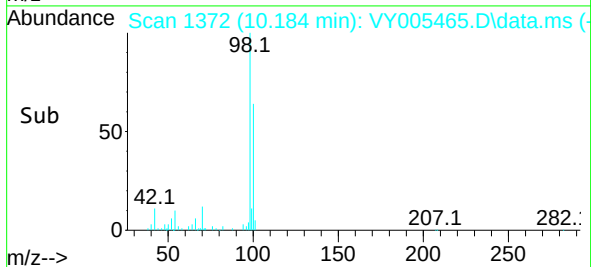
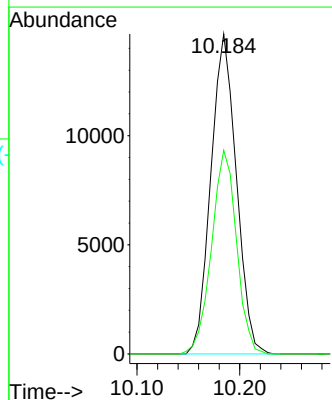
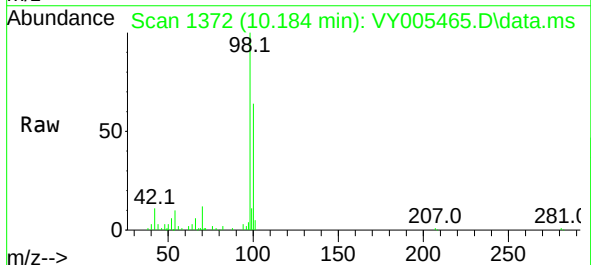
Instrument :
MSVOA_Y
ClientSampleId :

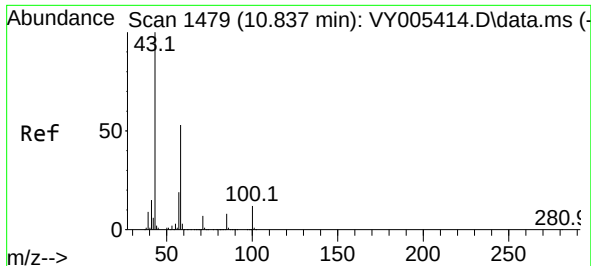
Tgt Ion:117 Resp: 1369
Ion Ratio Lower Upper
117 100
119 0.0 77.2 115.8#
121 0.0 25.1 37.7#



#50
Toluene-d8
Concen: 51.821 ug/l
RT: 10.184 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 98 Resp: 25208
Ion Ratio Lower Upper
98 100
100 62.3 50.9 76.3

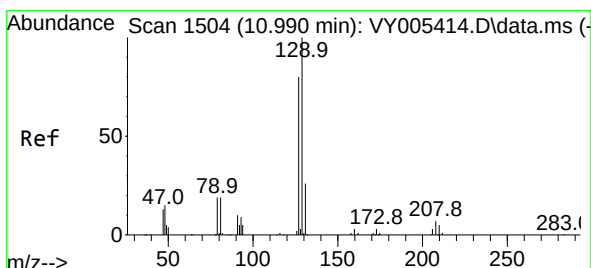
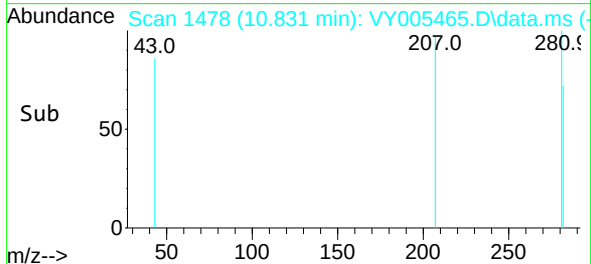
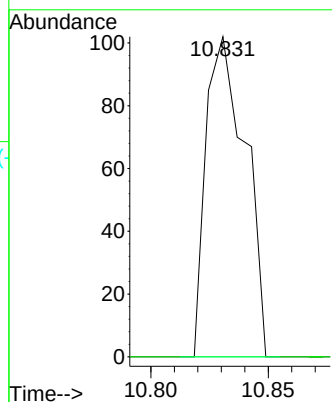
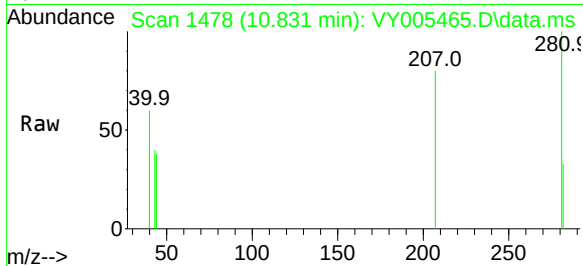




#59
2-Hexanone
Concen: 1.510 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. -0.007 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

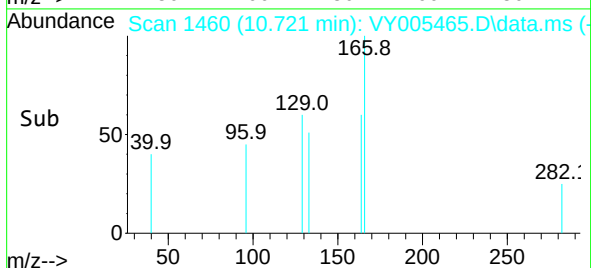
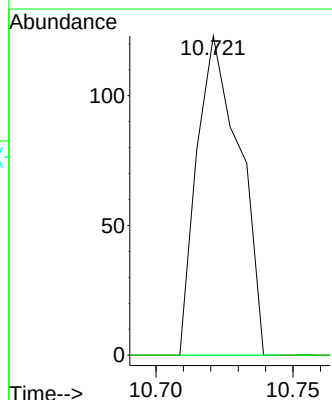
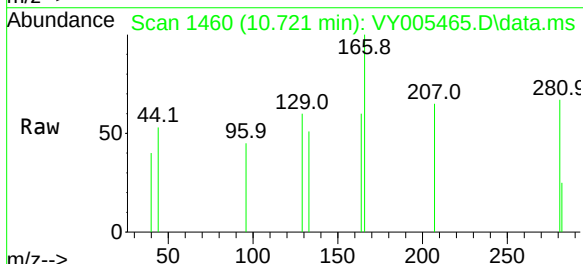
Instrument :
MSVOA_Y
ClientSampled :

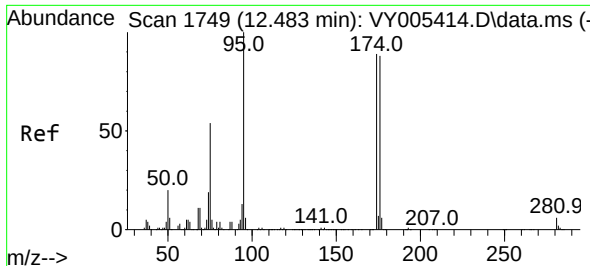
Tgt Ion: 43 Resp: 119
Ion Ratio Lower Upper
43 100
58 0.0 27.1 81.2#



#60
Dibromochloromethane
Concen: 1.014 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. -0.269 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 129 Resp: 133
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

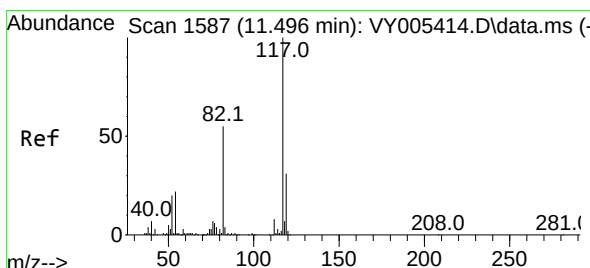
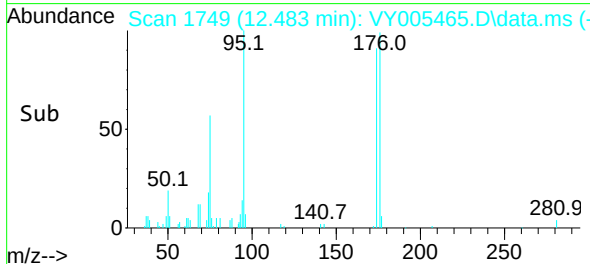
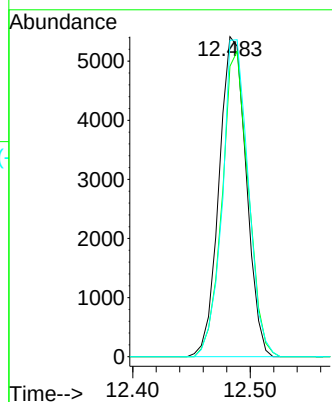
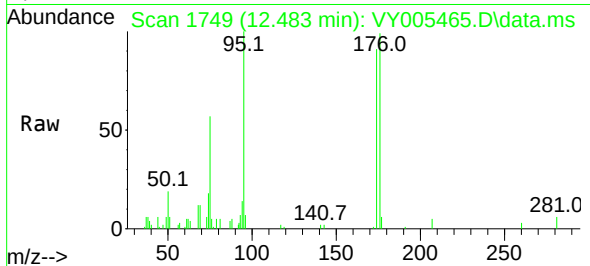




#62
4-Bromofluorobenzene
Concen: 54.096 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

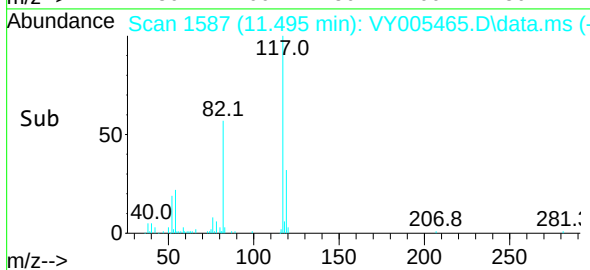
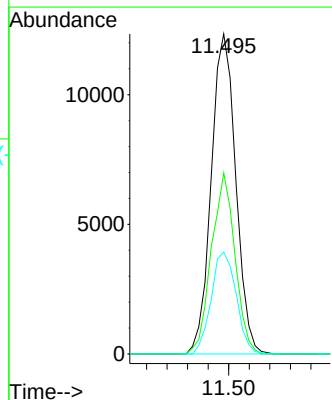
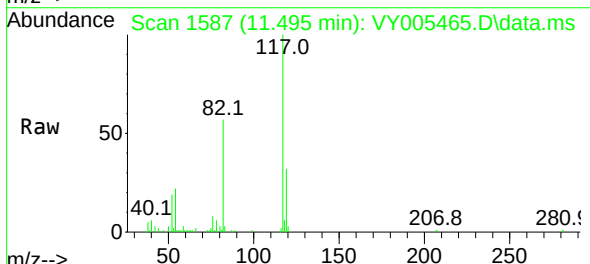
Instrument :
MSVOA_Y
ClientSampleId :

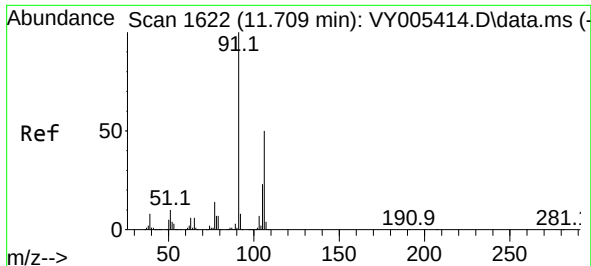
Tgt Ion:	95	Resp:	8685
Ion	Ratio	Lower	Upper
95	100		
174	92.1	0.0	186.6
176	94.6	0.0	182.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion:	117	Resp:	20424
Ion	Ratio	Lower	Upper
117	100		
82	56.5	43.8	65.6
119	31.8	24.8	37.2

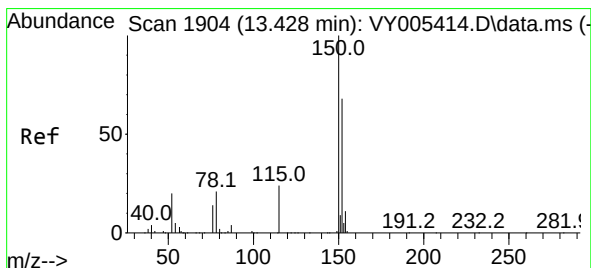
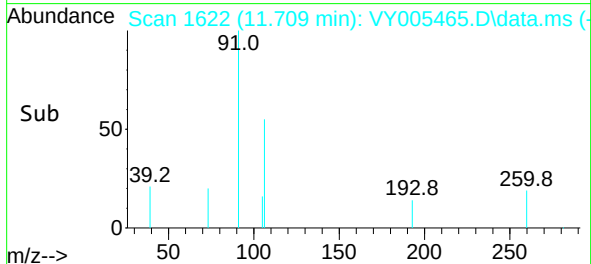
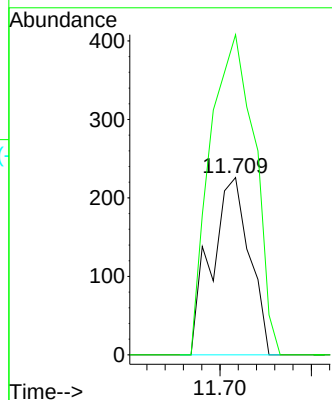
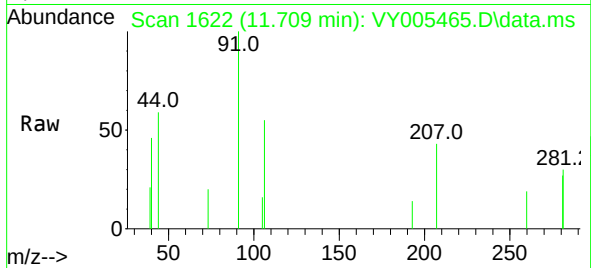




#68
m/p-Xylenes
Concen: 1.109 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

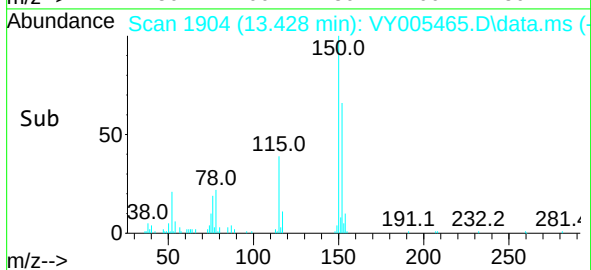
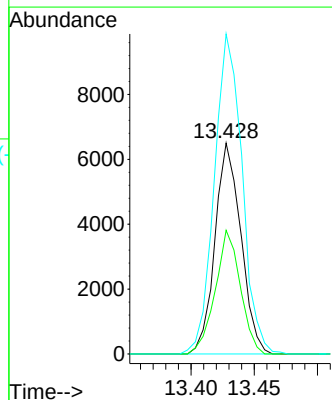
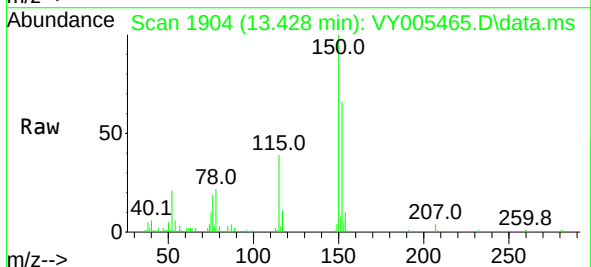
Instrument :
MSVOA_Y
ClientSampleId :

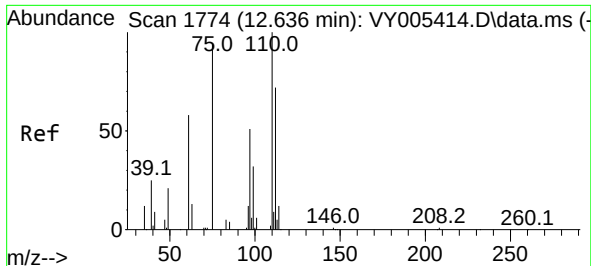
Tgt Ion:106 Resp: 328
Ion Ratio Lower Upper
106 100
91 210.4 161.4 242.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion:152 Resp: 9272
Ion Ratio Lower Upper
152 100
115 56.6 27.7 83.1
150 162.4 0.0 349.6

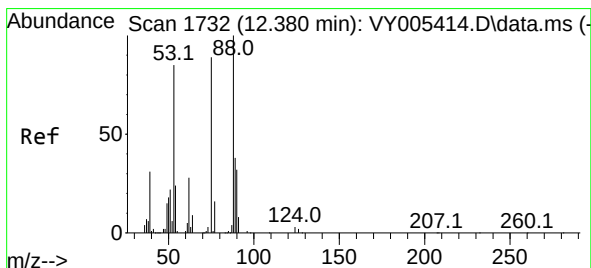
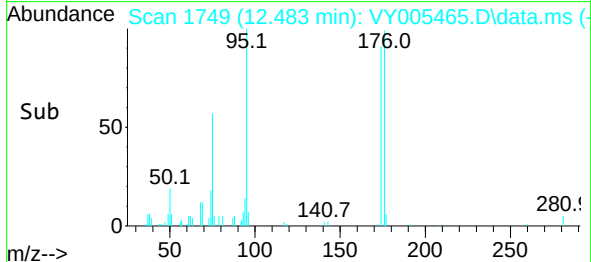
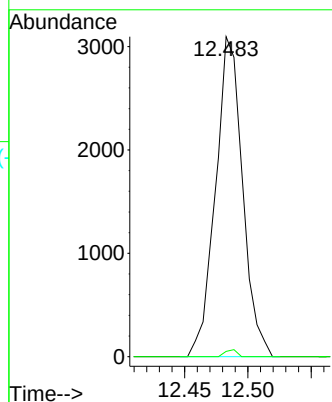
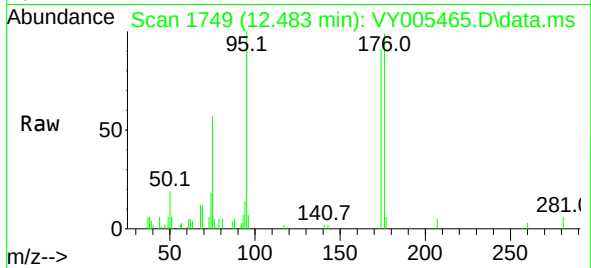




#76
1,2,3-Trichloropropane
Concen: 50.398 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

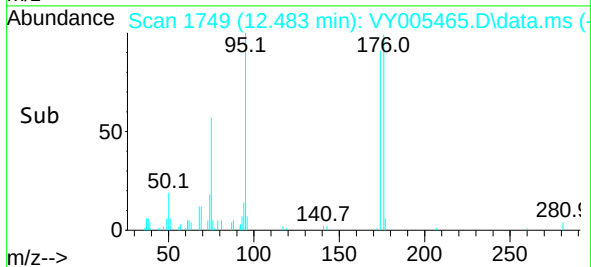
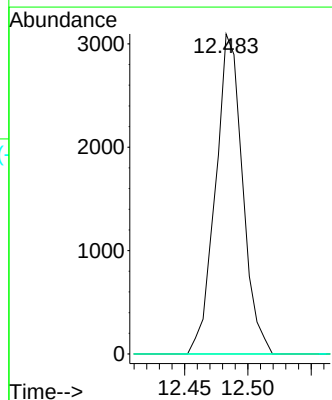
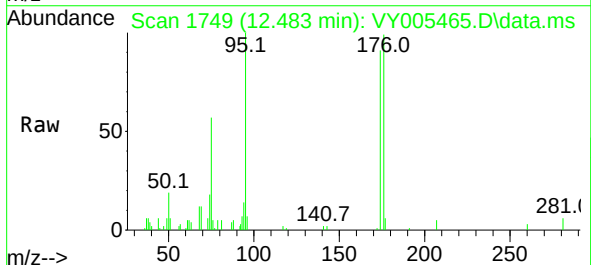
Instrument :
MSVOA_Y
ClientSampleId :

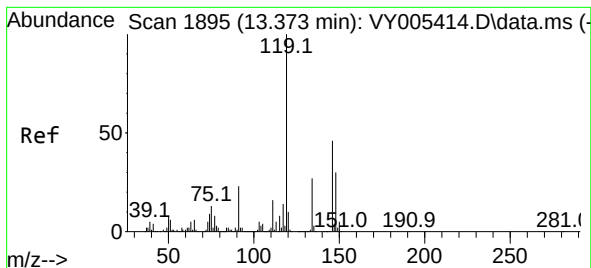
Tgt Ion: 75 Resp: 4598
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 97.858 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 75 Resp: 4598
Ion Ratio Lower Upper
75 100
53 0.0 76.1 114.1#
89 0.0 36.9 55.3#

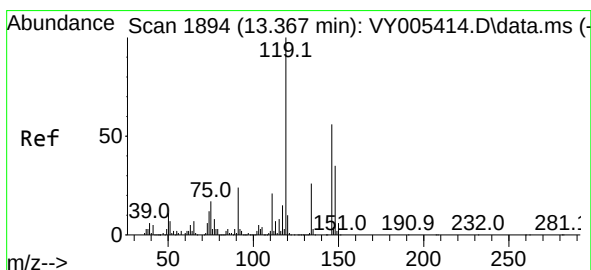
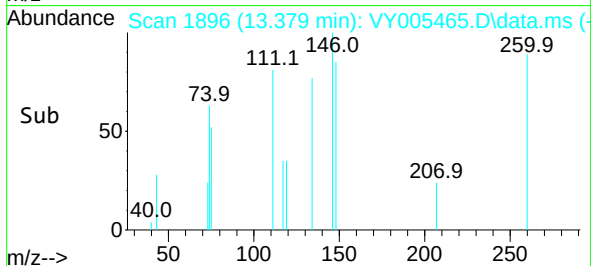
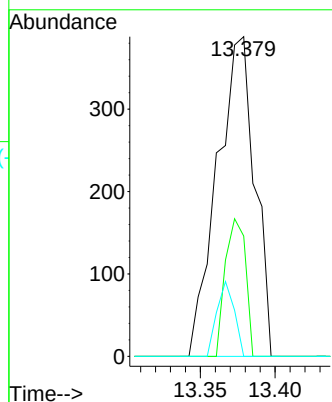
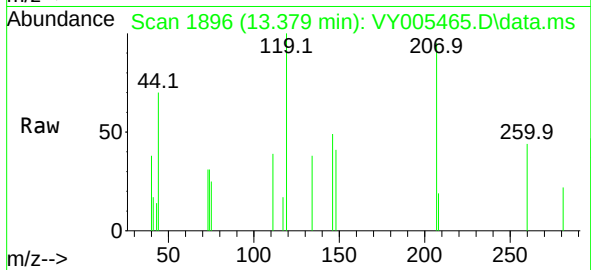




#86
p-Isopropyltoluene
Concen: 1.143 ug/l
RT: 13.379 min Scan# 1896
Delta R.T. 0.006 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

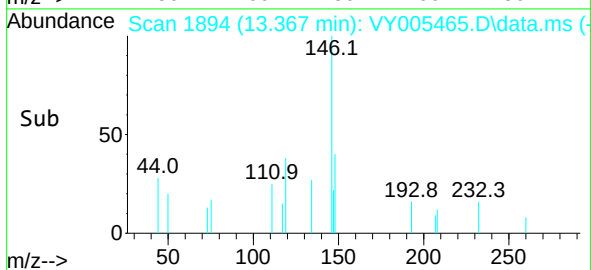
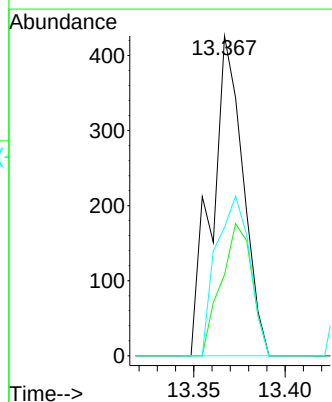
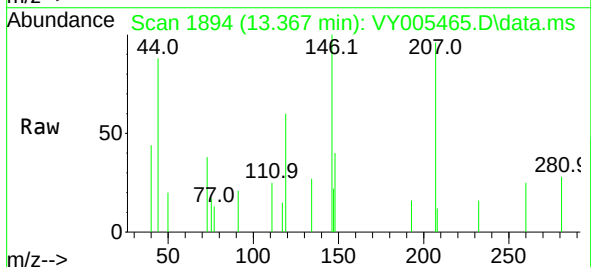
Instrument :
MSVOA_Y
ClientSampled :

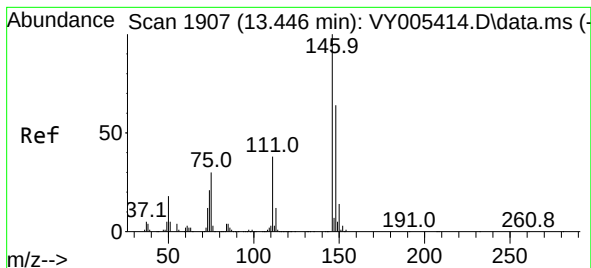
Tgt Ion:119 Resp: 675
Ion Ratio Lower Upper
119 100
134 23.3 13.5 40.5
91 10.8 11.7 35.1#



#87
1,3-Dichlorobenzene
Concen: 1.648 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion:146 Resp: 506
Ion Ratio Lower Upper
146 100
111 40.7 18.7 56.1
148 53.4 32.0 96.0

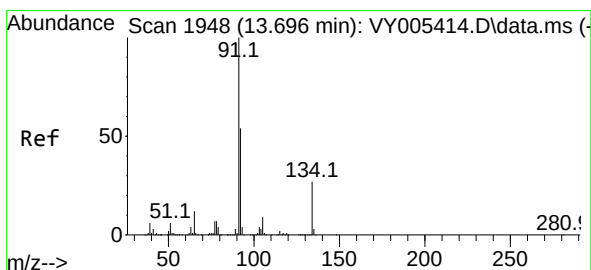
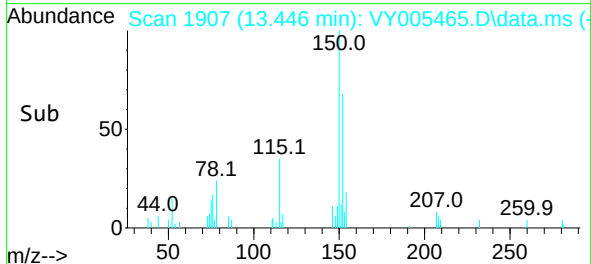
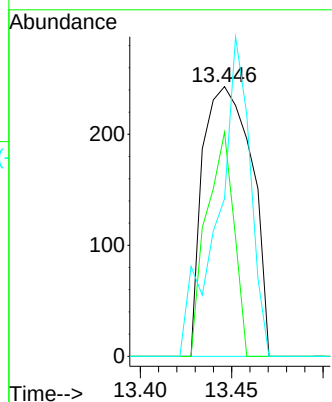
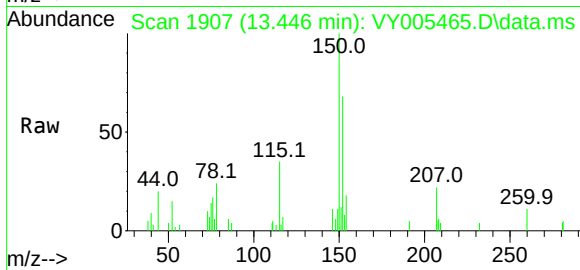




#88
1,4-Dichlorobenzene
Concen: 1.482 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

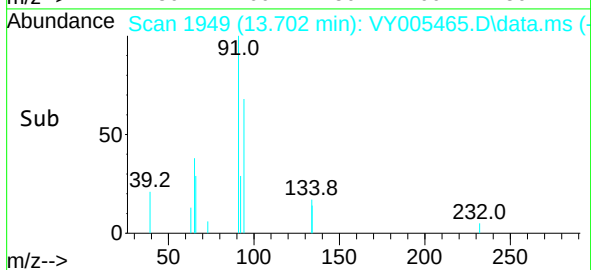
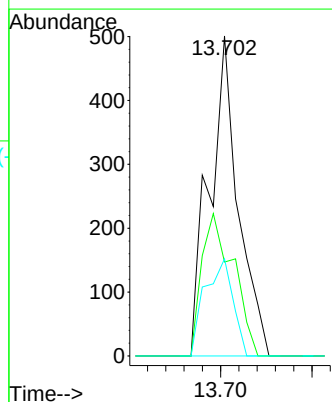
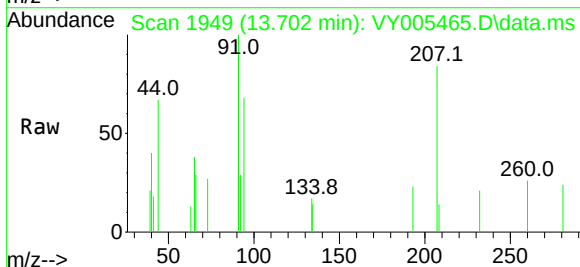
Instrument :
MSVOA_Y
ClientSampled :

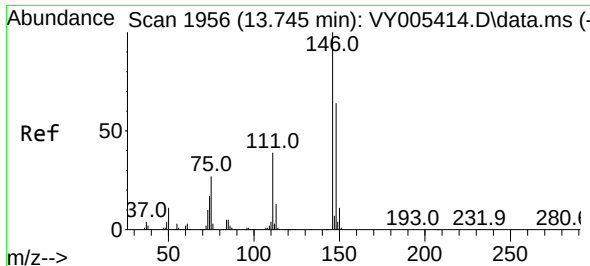
Tgt Ion:146 Resp: 451
Ion Ratio Lower Upper
146 100
111 46.8 18.6 55.8
148 78.5 32.1 96.5



#89
n-Butylbenzene
Concen: 1.011 ug/l
RT: 13.702 min Scan# 1949
Delta R.T. 0.006 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 91 Resp: 548
Ion Ratio Lower Upper
91 100
92 48.9 26.8 80.3
134 29.6 14.0 41.9

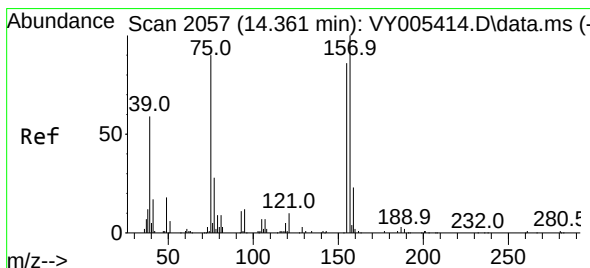
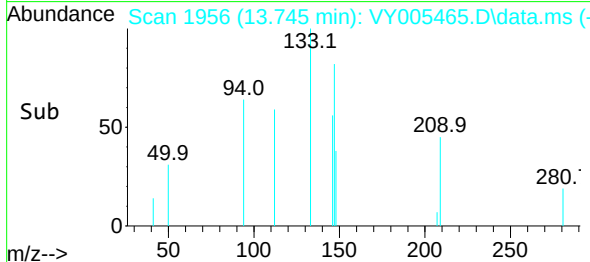
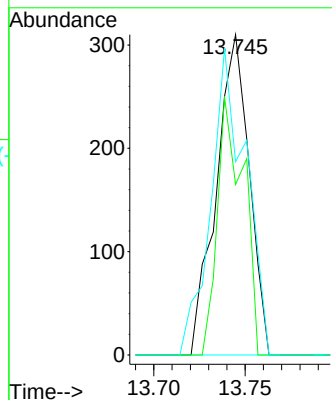
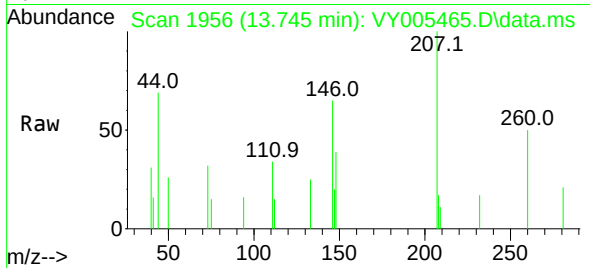




#91
1,2-Dichlorobenzene
Concen: 1.419 ug/l
RT: 13.745 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

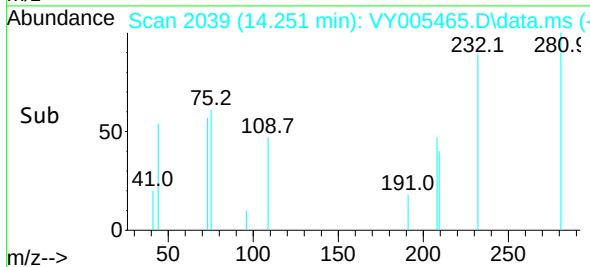
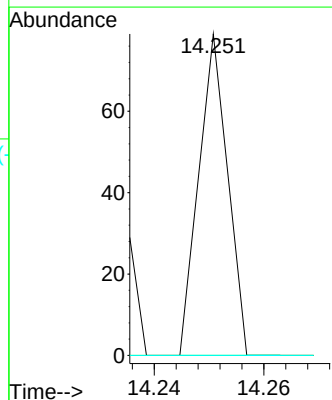
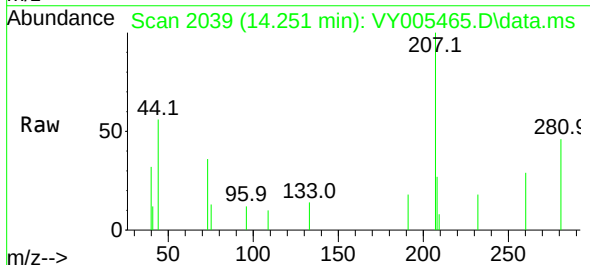
Instrument :
MSVOA_Y
ClientSampleId :

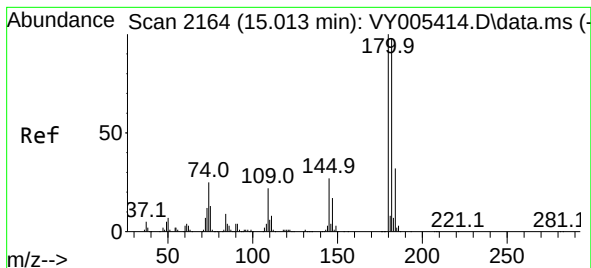
Tgt Ion:146 Resp: 389
Ion Ratio Lower Upper
146 100
111 63.8 19.6 58.7#
148 101.0 31.7 95.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.225 ug/l
RT: 14.251 min Scan# 2039
Delta R.T. -0.110 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion: 75 Resp: 29
Ion Ratio Lower Upper
75 100
155 0.0 43.6 130.8#
157 0.0 54.1 162.3#

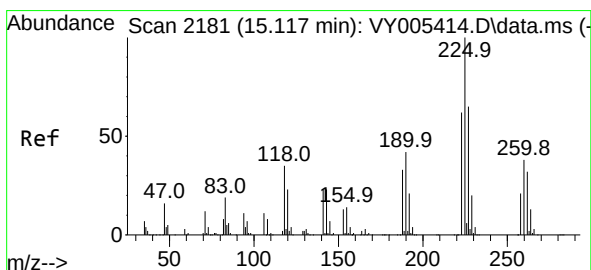
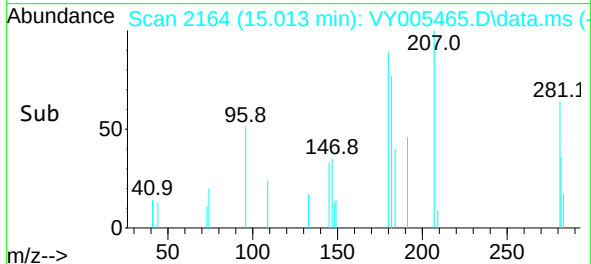
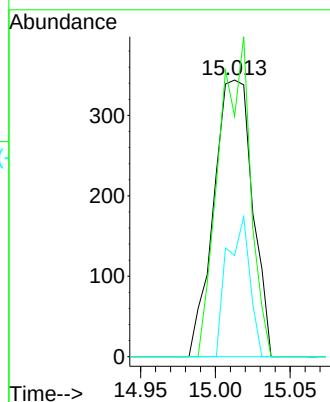
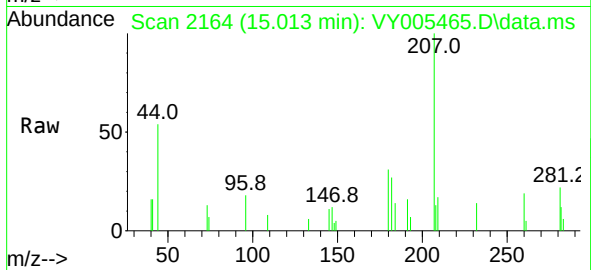




#93
1,2,4-Trichlorobenzene
Concen: 3.287 ug/l
RT: 15.013 min Scan# 2164
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

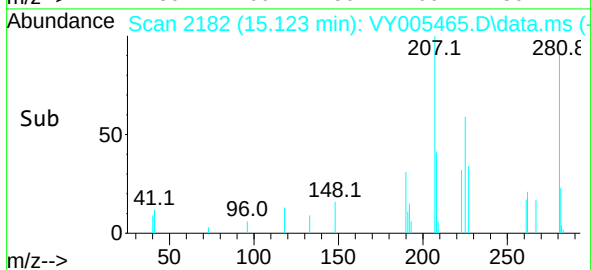
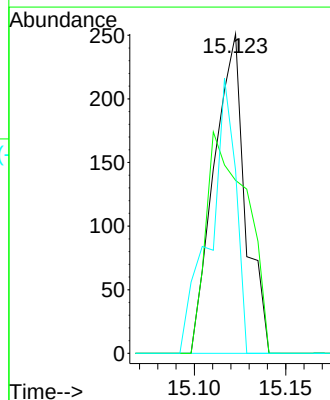
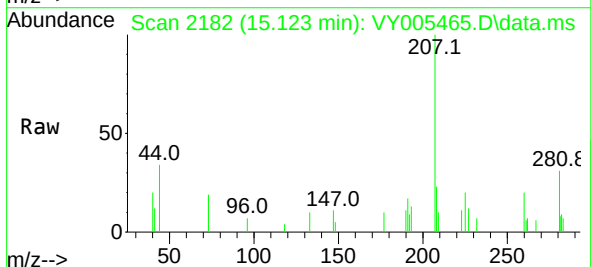
Instrument :
MSVOA_Y
ClientSampled :

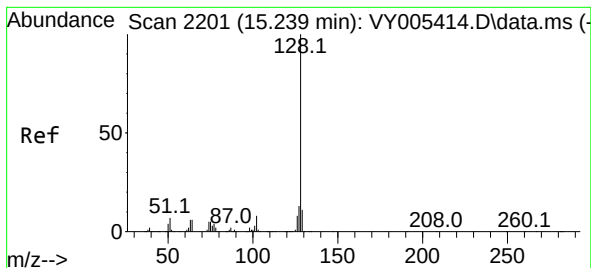
Tgt Ion:	180	Resp:	622
Ion	Ratio	Lower	Upper
180	100		
182	92.9	48.0	144.0
145	29.4	14.0	41.9



#94
Hexachlorobutadiene
Concen: 2.493 ug/l
RT: 15.123 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion:	225	Resp:	299
Ion	Ratio	Lower	Upper
225	100		
223	90.6	31.8	95.4
227	71.2	32.1	96.3

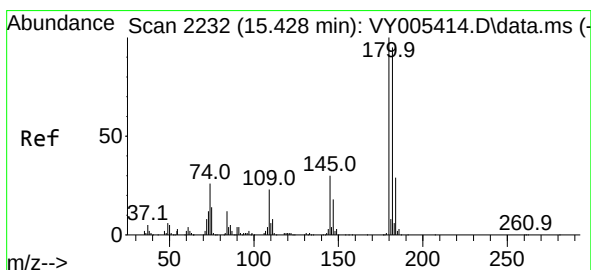
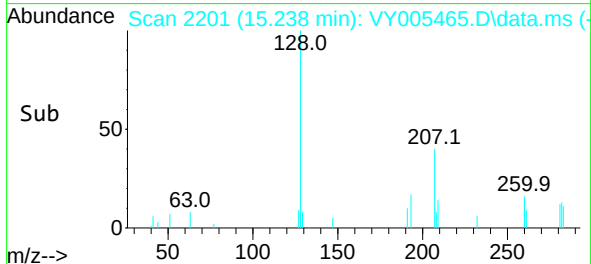
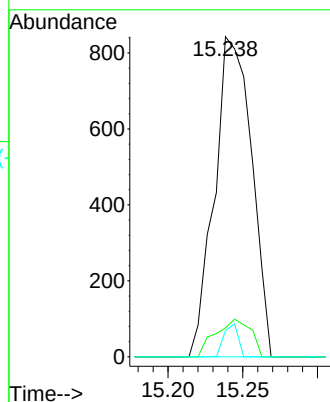
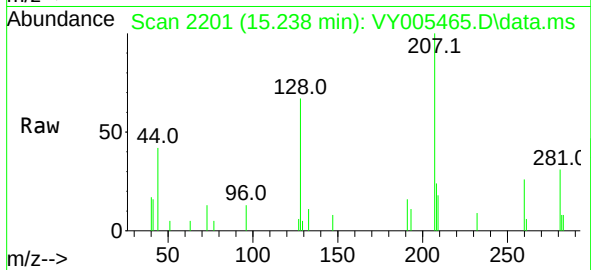




#95
Naphthalene
Concen: 3.815 ug/l
RT: 15.238 min Scan# 2201
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:128 Resp: 1452
Ion Ratio Lower Upper
128 100
127 11.2 10.7 16.1
129 3.9 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 3.207 ug/l
RT: 15.427 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY005465.D
Acq: 27 Jul 2021 15:28

Tgt Ion:180 Resp: 547
Ion Ratio Lower Upper
180 100
182 99.1 47.3 141.9
145 17.7 14.9 44.5

