

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031821\
 Data File : VN066261.D
 Acq On : 18 Mar 2021 17:18
 Operator : JC/MD
 Sample : PB135215ZHE#08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 04:28:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031621W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 17 05:05:15 2021
 Response via : Initial Calibration

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

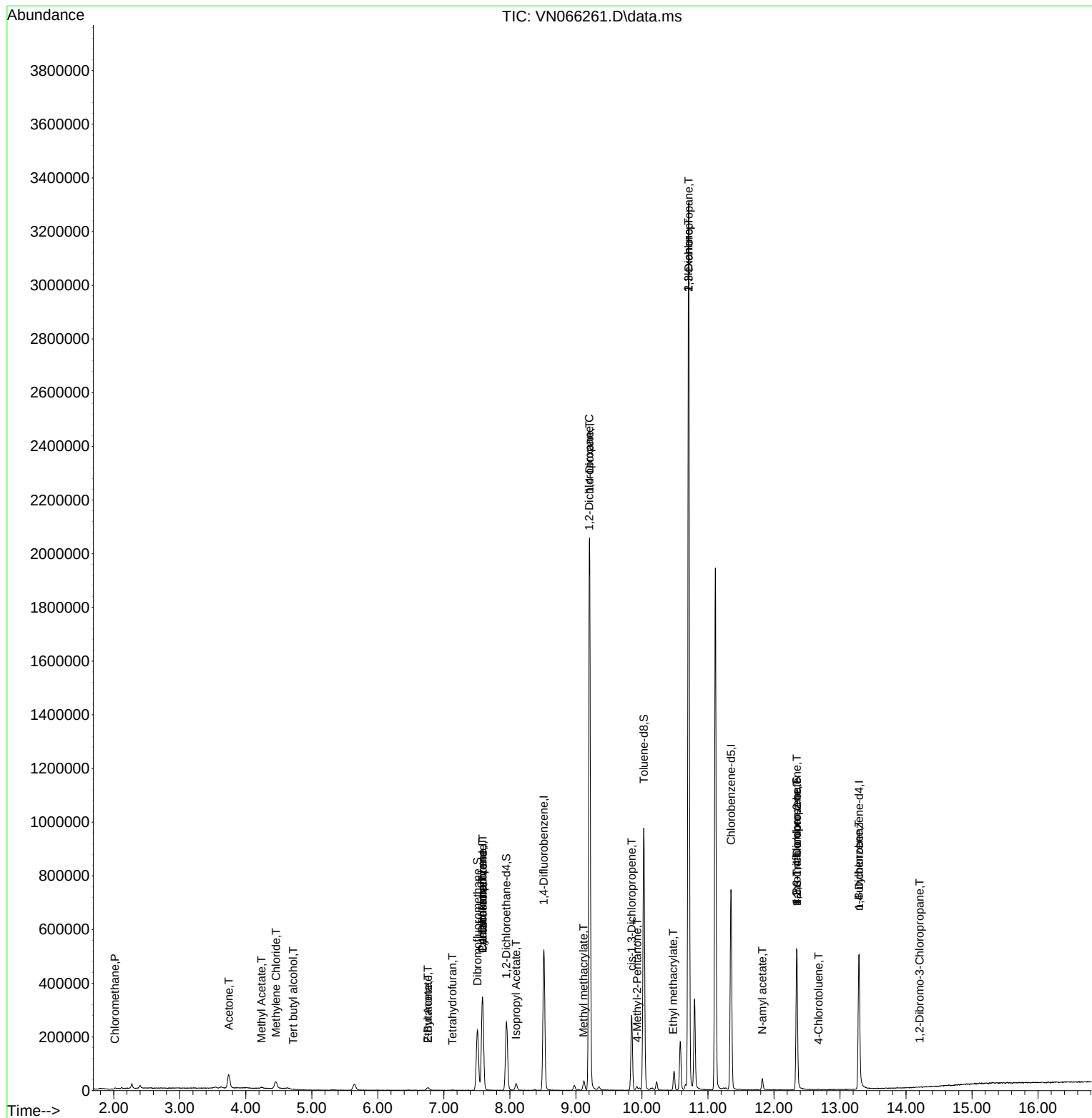
Internal Standards						
1) Pentafluorobenzene	7.587	168	311780	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.515	114	467752	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.350	117	452482	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.289	152	159881	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.947	65	213700	47.57	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.14%		
35) Dibromofluoromethane	7.509	113	170331	57.08	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	114.16%		
50) Toluene-d8	10.028	98	671769	58.22	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	116.44%#		
62) 4-Bromofluorobenzene	12.345	95	183460	44.11	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.22%		
Target Compounds						Qvalue
3) Chloromethane	2.019	50	2640	0.22	ug/l	91
11) Tert butyl alcohol	4.717	59	1132	1.48	ug/l #	73
13) Acrolein	3.537	56	3750	Below Cal	#	67
16) Acetone	3.741	43	85108	39.44	ug/l	100
18) Methyl Acetate	4.237	43	3745	0.62	ug/l #	75
20) Methylene Chloride	4.457	84	17323	5.13	ug/l	90
25) 2-Butanone	6.758	43	10975	3.27	ug/l #	90
29) Tetrahydrofuran	7.131	42	527	0.23	ug/l #	87
31) Cyclohexane	7.584	56	4784	0.71	ug/l #	1
36) 1,1-Dichloropropene	7.584	75	20639	4.36	ug/l #	48
37) Ethyl Acetate	6.758	43	10975	1.62	ug/l #	74
38) Carbon Tetrachloride	7.587	117	26746	6.30	ug/l #	18
43) Isopropyl Acetate	8.094	43	30788	2.94	ug/l	96
45) 1,2-Dichloropropane	9.202	63	2562	0.62	ug/l #	44
48) Methyl methacrylate	9.116	41	9658	1.95	ug/l #	21
49) 1,4-Dioxane	9.207	88	133	2.47	ug/l #	1
51) 4-Methyl-2-Pentanone	9.928	43	10002	1.58	ug/l	98
54) cis-1,3-Dichloropropene	9.845	75	46900	7.64	ug/l #	57
56) Ethyl methacrylate	10.476	69	338	2.21	ug/l #	1
57) 1,3-Dichloropropane	10.709	76	32330	5.31	ug/l #	43
59) 2-Hexanone	10.706	43	472032	96.25	ug/l #	57
74) N-amyl acetate	11.825	43	13361	4.21	ug/l #	63
76) 1,2,3-Trichloropropane	12.348	75	83621	20.25	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.348	75	83621	60.61	ug/l #	11
82) 4-Chlorotoluene	12.678	91	53	0.47	ug/l #	43
89) n-Butylbenzene	13.286	91	200	2.26	ug/l #	48
92) 1,2-Dibromo-3-Chloropr...	14.206	75	171	1.03	ug/l #	8

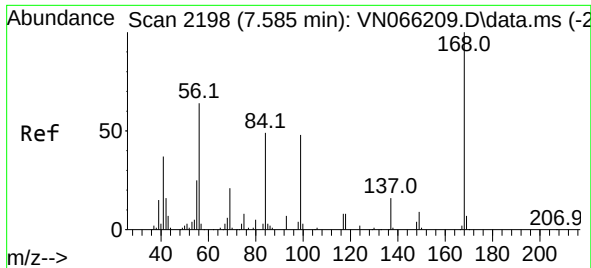
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

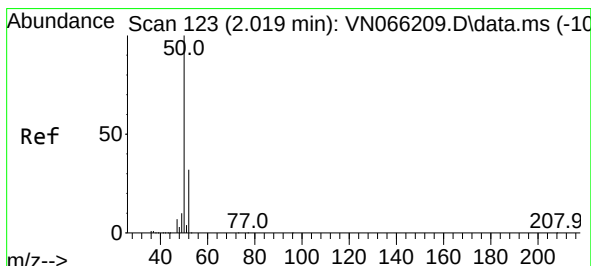
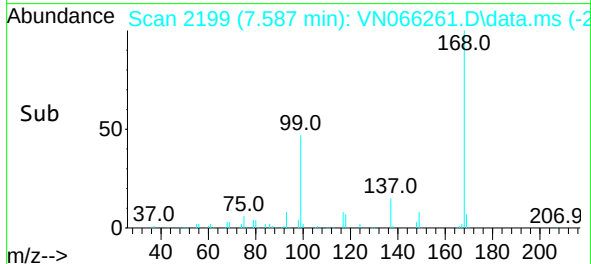
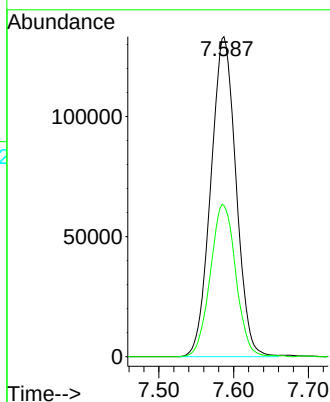
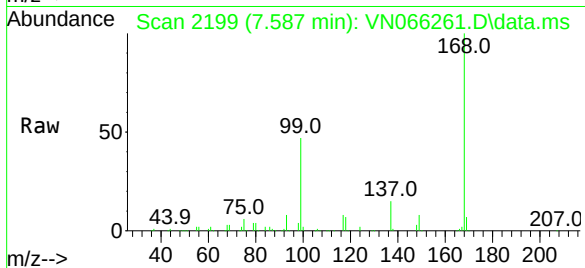




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.587 min Scan# 2199
Delta R.T. 0.002 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

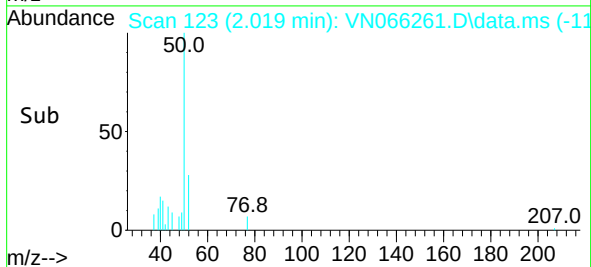
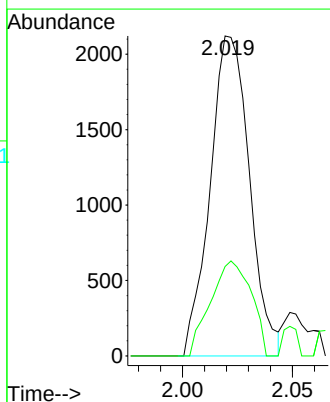
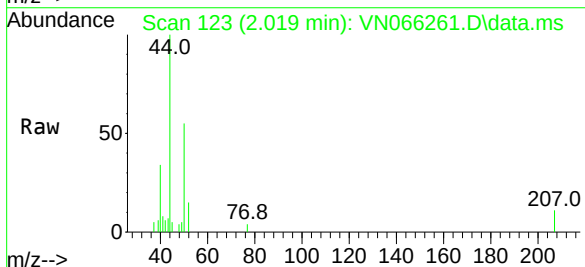
Instrument :
MSVOA_N
ClientSampleId :

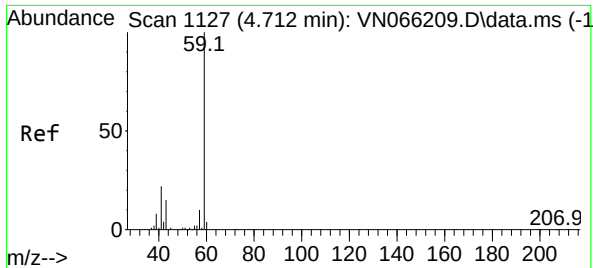
Tgt Ion:168 Resp: 311780
Ion Ratio Lower Upper
168 100
99 47.2 45.4 68.0



#3
Chloromethane
Concen: 0.22 ug/l
RT: 2.019 min Scan# 123
Delta R.T. 0.000 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

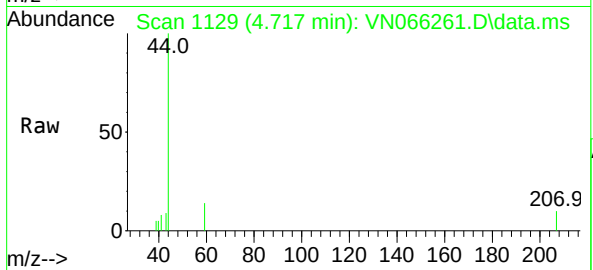
Tgt Ion: 50 Resp: 2640
Ion Ratio Lower Upper
50 100
52 28.0 26.2 39.4



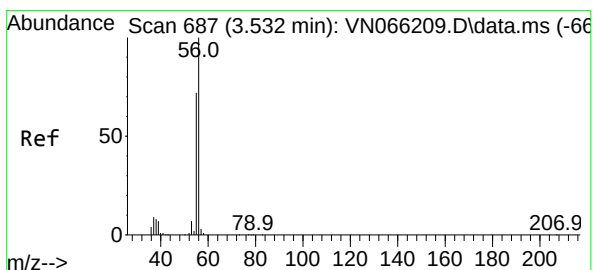
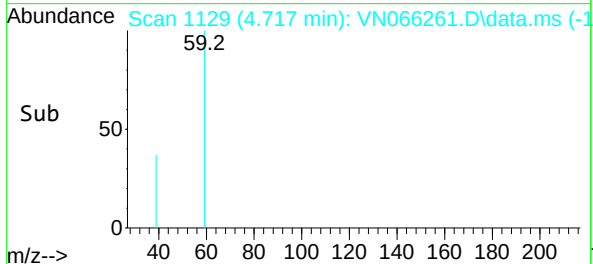
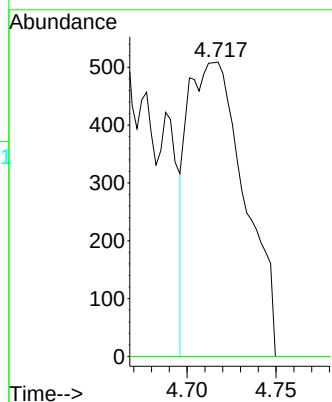


#11
Tert butyl alcohol
Concen: 1.48 ug/l
RT: 4.717 min Scan# 1129
Delta R.T. 0.005 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Instrument :
MSVOA_N
ClientSampled :

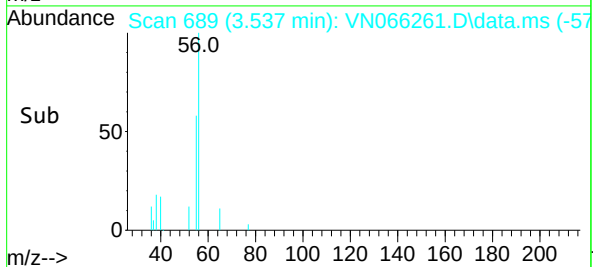
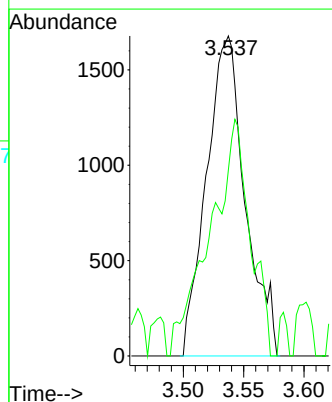
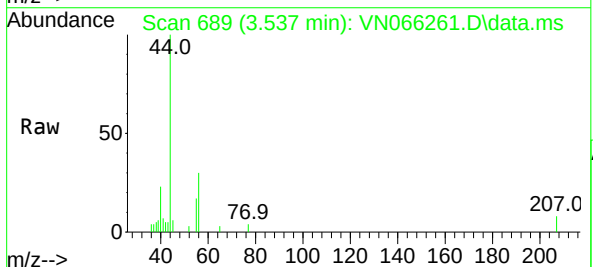


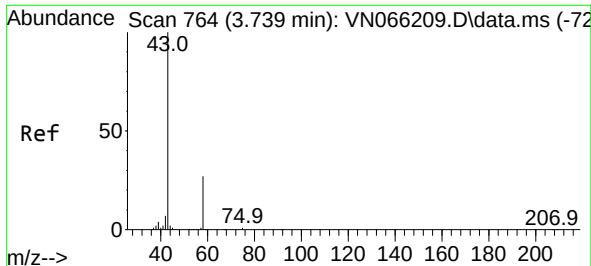
Tgt Ion: 59 Resp: 1132
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#13
Acrolein
Concen: Below Cal
RT: 3.537 min Scan# 689
Delta R.T. 0.005 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Tgt Ion: 56 Resp: 3750
Ion Ratio Lower Upper
56 100
55 45.0 58.0 87.0#

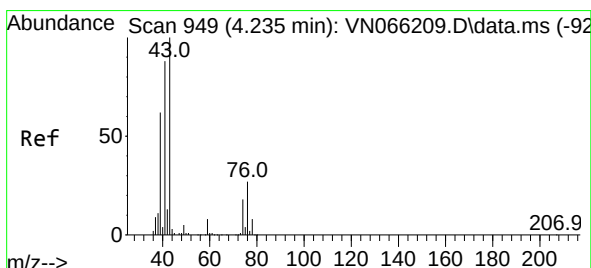
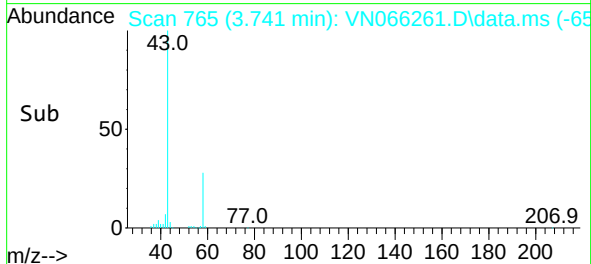
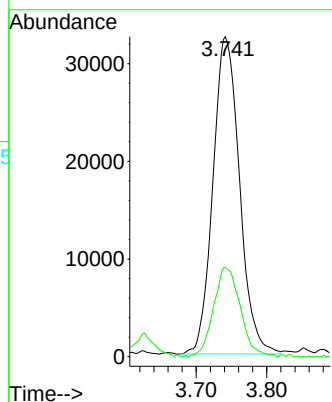
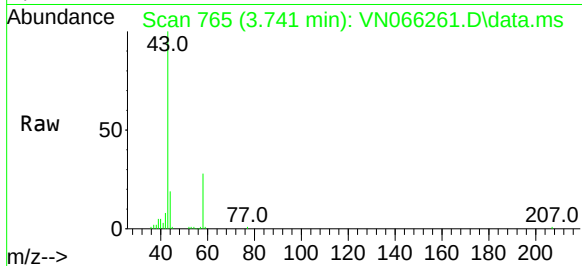




#16
Acetone
Concen: 39.44 ug/l
RT: 3.741 min Scan# 765
Delta R.T. 0.002 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

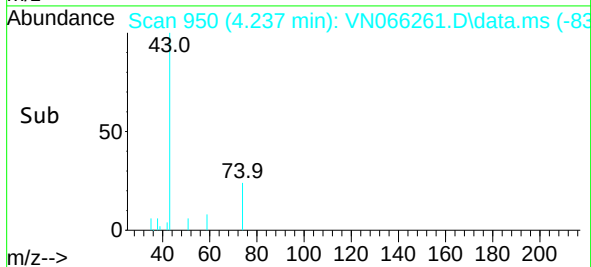
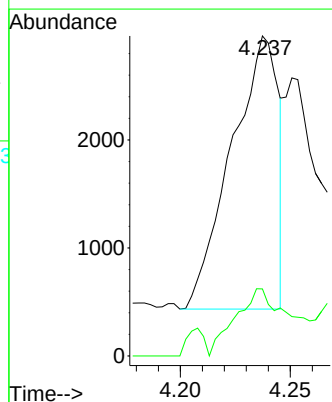
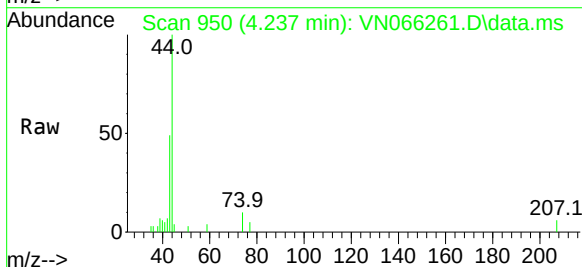
Instrument :
MSVOA_N
ClientSampled :

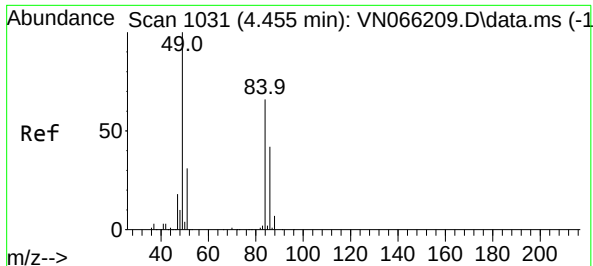
Tgt Ion: 43 Resp: 85108
Ion Ratio Lower Upper
43 100
58 28.1 22.3 33.5



#18
Methyl Acetate
Concen: 0.62 ug/l
RT: 4.237 min Scan# 950
Delta R.T. 0.002 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

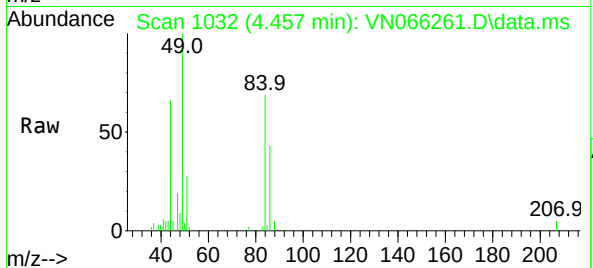
Tgt Ion: 43 Resp: 3745
Ion Ratio Lower Upper
43 100
74 28.7 14.2 21.2#



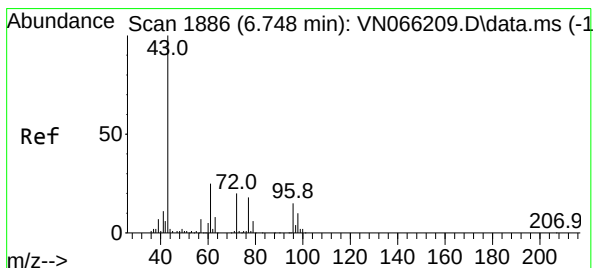
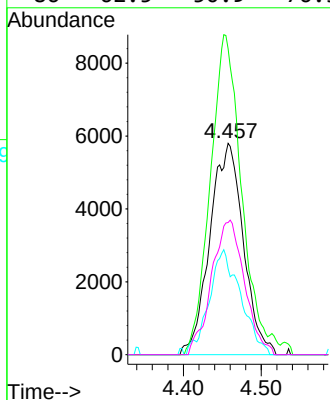
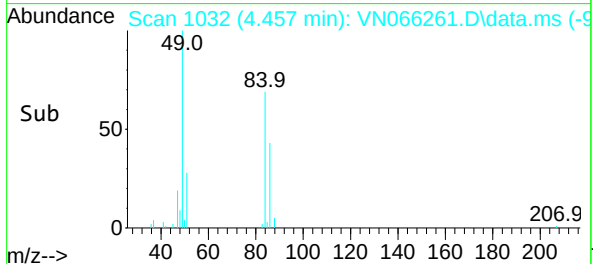


#20
Methylene Chloride
Concen: 5.13 ug/l
RT: 4.457 min Scan# 1032
Delta R.T. 0.002 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

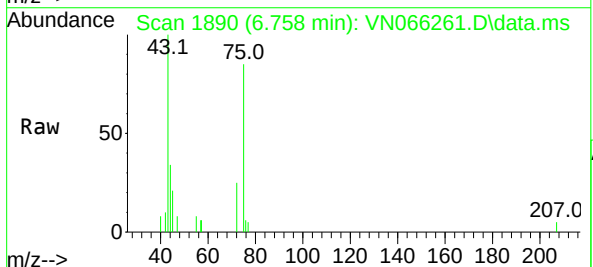
Instrument :
MSVOA_N
ClientSampled :



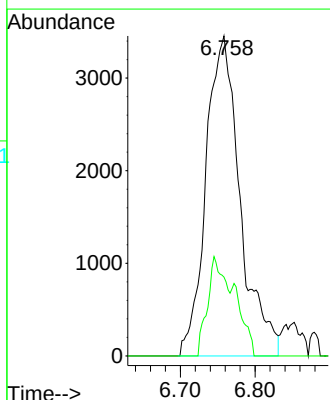
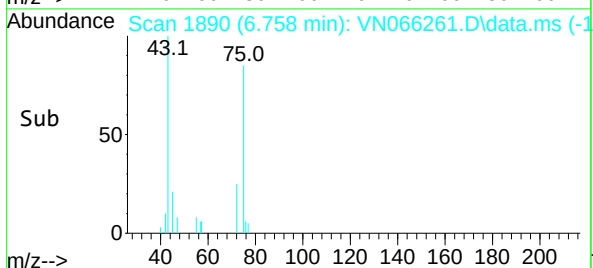
Tgt Ion:	84	Resp:	17323
Ion	Ratio	Lower	Upper
84	100		
49	144.8	130.0	195.0
51	40.7	39.1	58.7
86	62.5	50.9	76.3

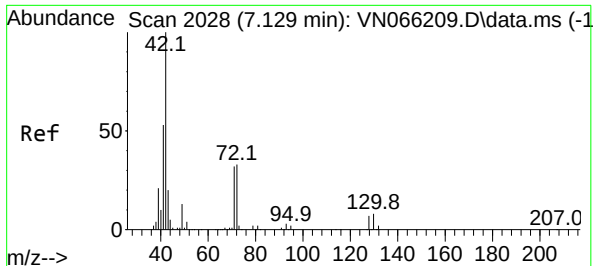


#25
2-Butanone
Concen: 3.27 ug/l
RT: 6.758 min Scan# 1890
Delta R.T. 0.010 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18



Tgt Ion:	43	Resp:	10975
Ion	Ratio	Lower	Upper
43	100		
72	24.6	16.2	24.2#

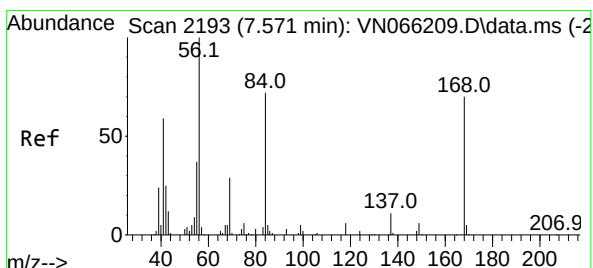
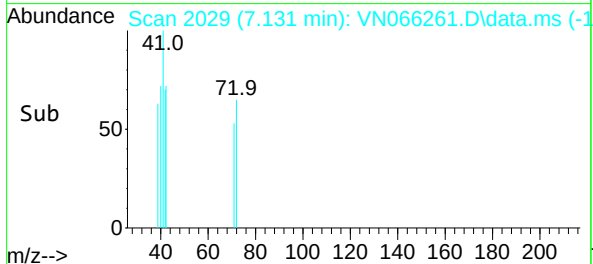
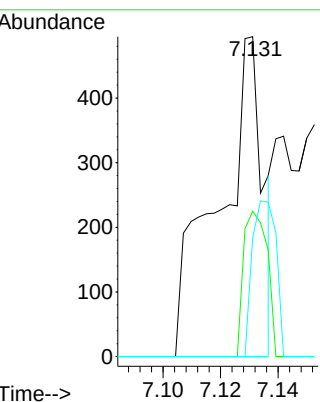
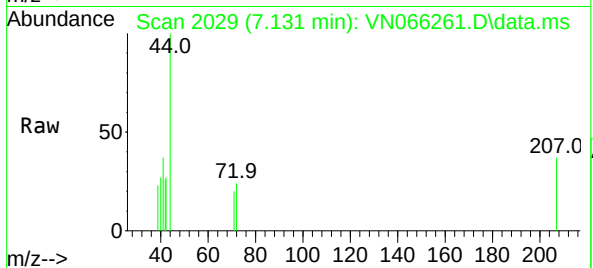




#29
Tetrahydrofuran
Concen: 0.23 ug/l
RT: 7.131 min Scan# 2029
Delta R.T. 0.002 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

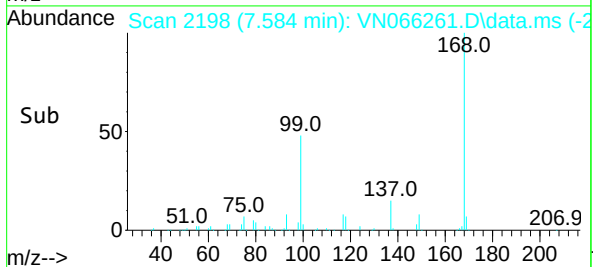
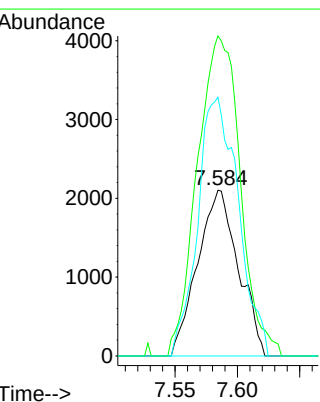
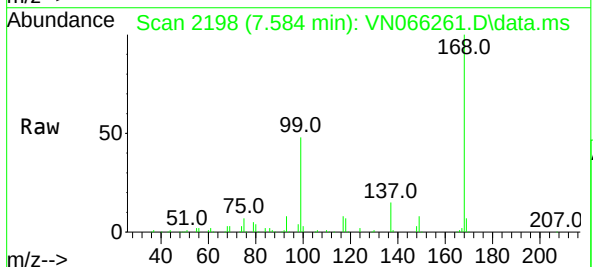
Instrument :
MSVOA_N
ClientSampled :

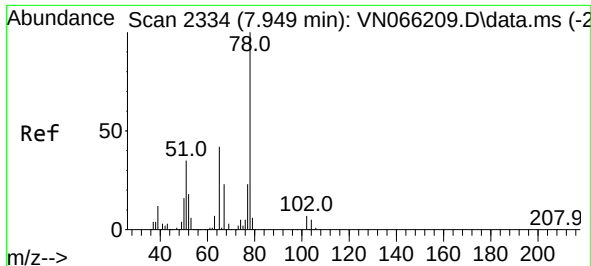
Tgt Ion:	42	Resp:	527
Ion	Ratio	Lower	Upper
42	100		
72	24.3	26.2	39.4#
71	26.2	25.4	38.2



#31
Cyclohexane
Concen: 0.71 ug/l
RT: 7.584 min Scan# 2198
Delta R.T. 0.013 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

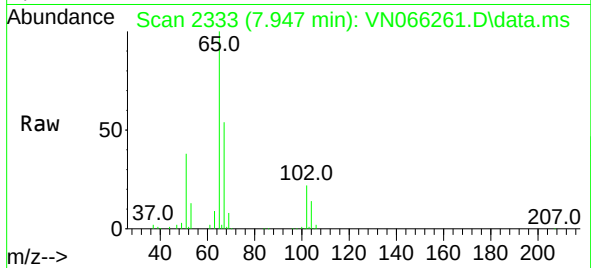
Tgt Ion:	56	Resp:	4784
Ion	Ratio	Lower	Upper
56	100		
69	193.0	23.4	35.0#
84	156.0	57.8	86.6#



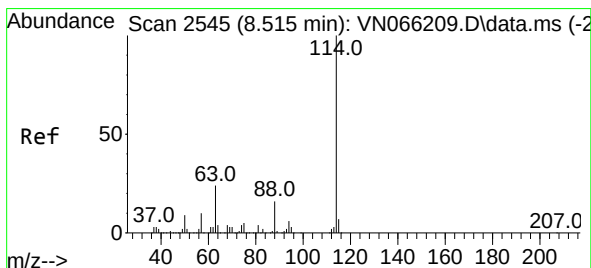
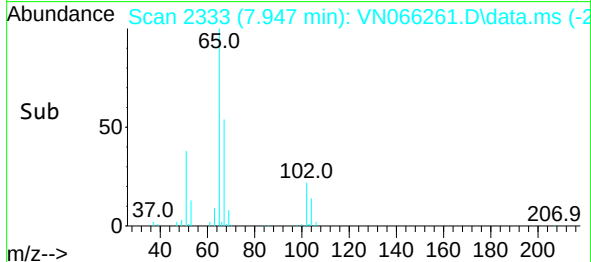
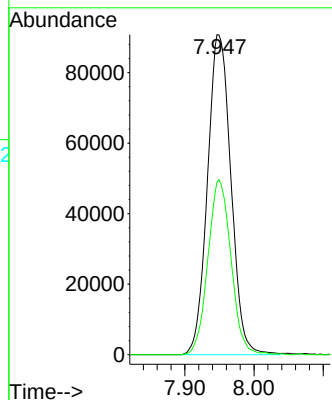


#33
 1,2-Dichloroethane-d4
 Concen: 47.57 ug/l
 RT: 7.947 min Scan# 2333
 Delta R.T. -0.002 min
 Lab File: VN066261.D
 Acq: 18 Mar 2021 17:18

Instrument :
 MSVOA_N
 ClientSampled :

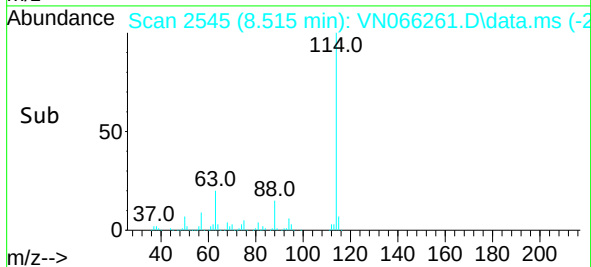
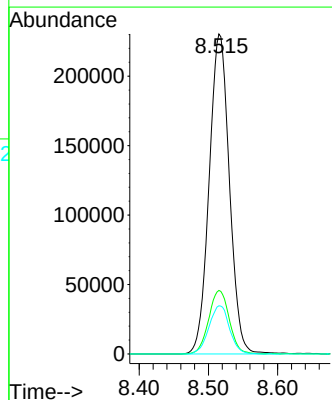
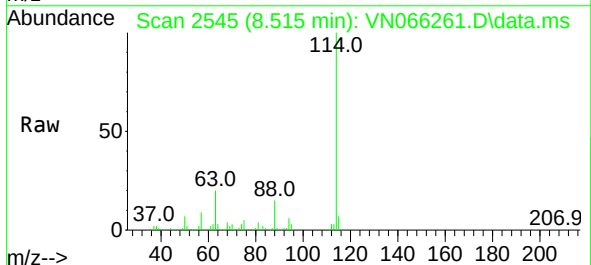


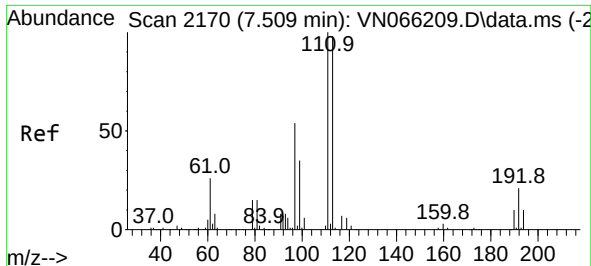
Tgt Ion: 65 Resp: 213700
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.515 min Scan# 2545
 Delta R.T. 0.000 min
 Lab File: VN066261.D
 Acq: 18 Mar 2021 17:18

Tgt Ion: 114 Resp: 467752
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 49.2
 88 15.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 57.08 ug/l

RT: 7.509 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN066261.D

Acq: 18 Mar 2021 17:18

Tgt Ion:113 Resp: 170331

Ion Ratio Lower Upper

113 100

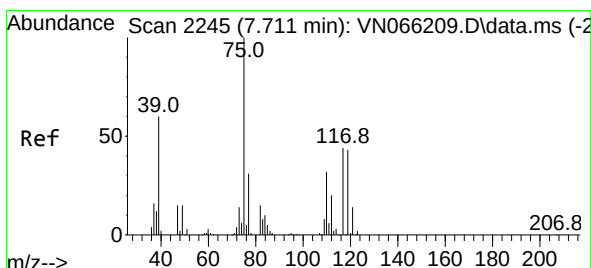
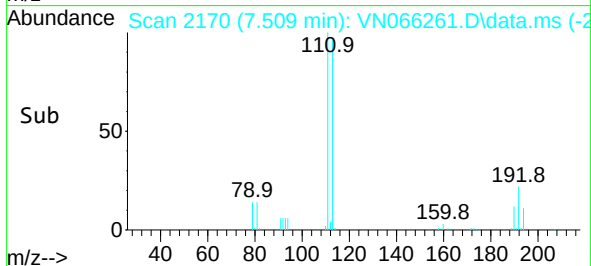
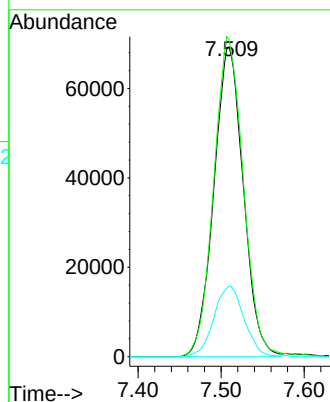
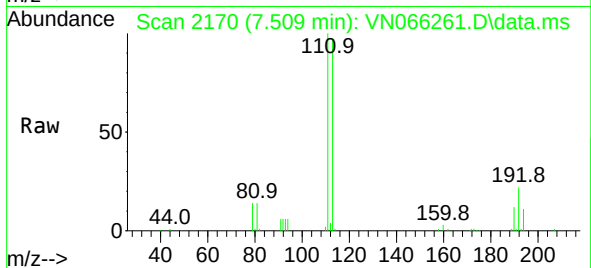
111 103.9 84.0 126.0

192 23.4 16.7 25.1

Instrument :

MSVOA_N

ClientSampleId :



#36

1,1-Dichloropropene

Concen: 4.36 ug/l

RT: 7.584 min Scan# 2198

Delta R.T. -0.127 min

Lab File: VN066261.D

Acq: 18 Mar 2021 17:18

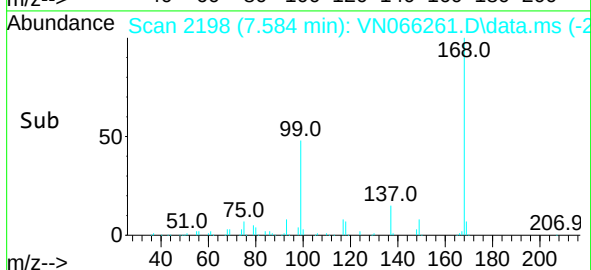
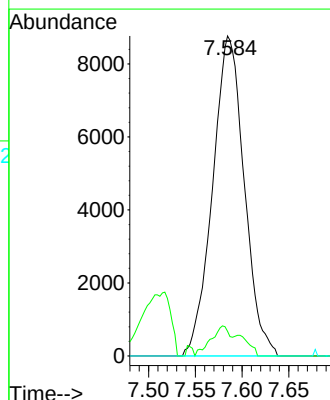
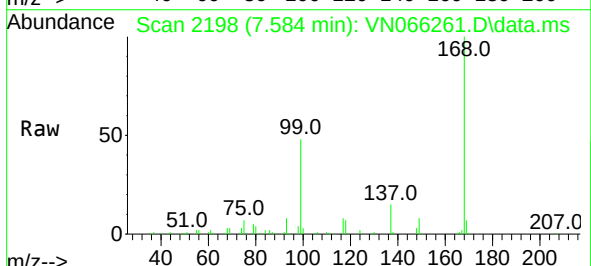
Tgt Ion: 75 Resp: 20639

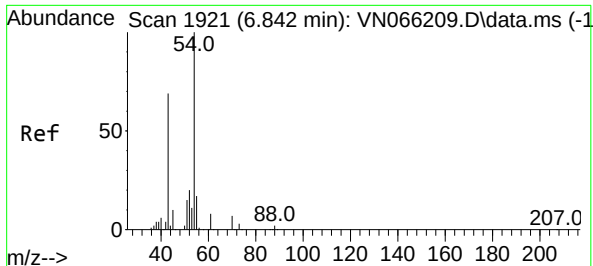
Ion Ratio Lower Upper

75 100

110 5.7 16.0 48.0#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 1.62 ug/l

RT: 6.758 min Scan# 1890

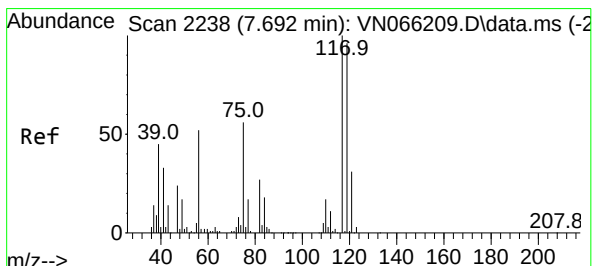
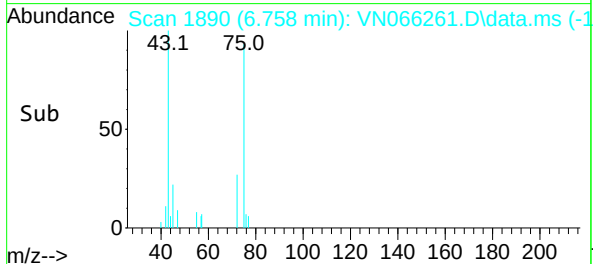
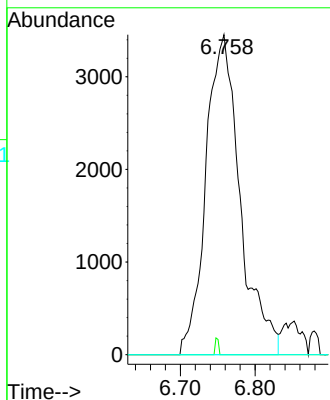
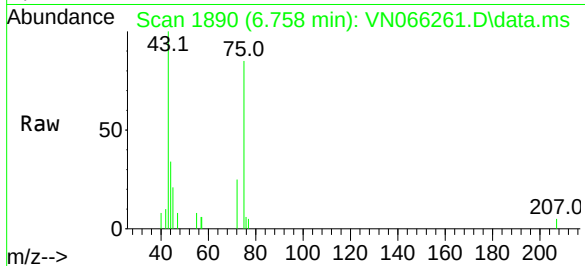
Delta R.T. -0.084 min

Lab File: VN066261.D

Acq: 18 Mar 2021 17:18

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:	43	Resp:	10975
Ion	Ratio	Lower	Upper
43	100		
61	0.5	9.2	13.8#
70	0.0	6.1	9.1#



#38

Carbon Tetrachloride

Concen: 6.30 ug/l

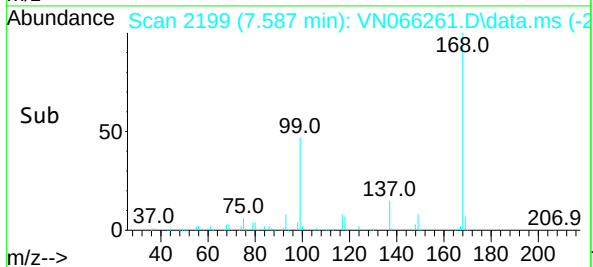
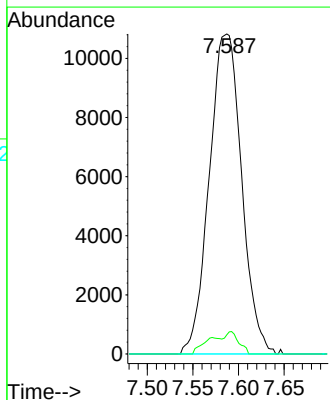
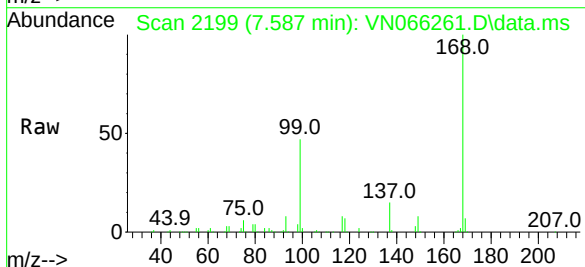
RT: 7.587 min Scan# 2199

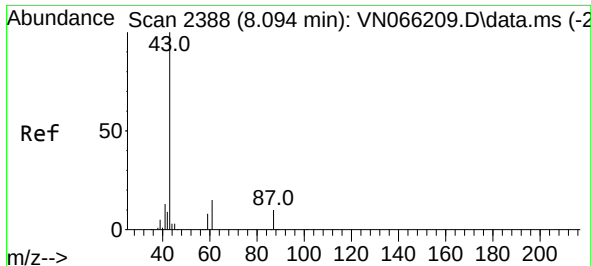
Delta R.T. -0.105 min

Lab File: VN066261.D

Acq: 18 Mar 2021 17:18

Tgt Ion:	117	Resp:	26746
Ion	Ratio	Lower	Upper
117	100		
119	6.0	74.6	111.8#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 2.94 ug/l

RT: 8.094 min Scan# 2388

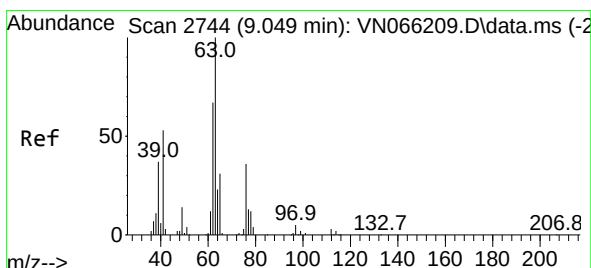
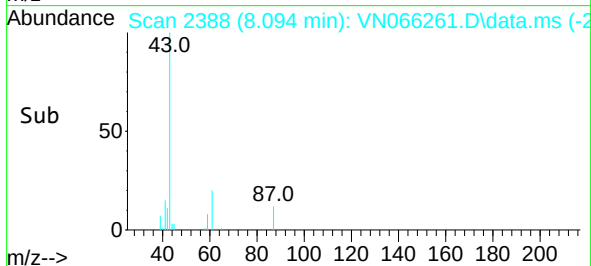
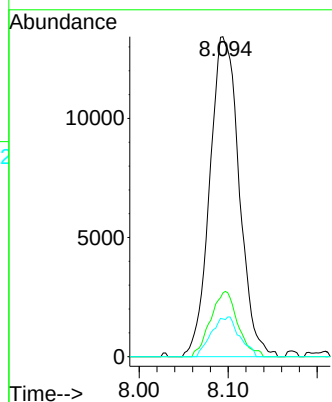
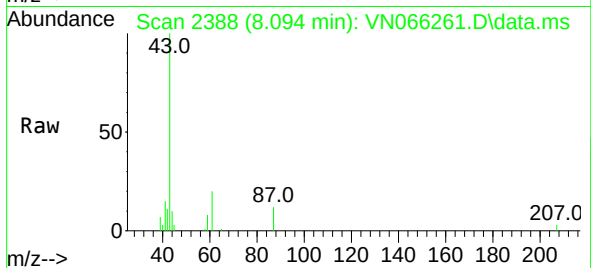
Delta R.T. 0.000 min

Lab File: VN066261.D

Acq: 18 Mar 2021 17:18

Tgt Ion:	43	Resp:	30788
Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.0	21.0
87	11.8	7.9	11.9

Instrument :
MSVOA_N
ClientSampled :



#45

1,2-Dichloropropane

Concen: 0.62 ug/l

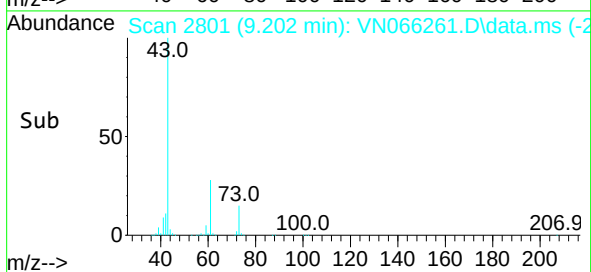
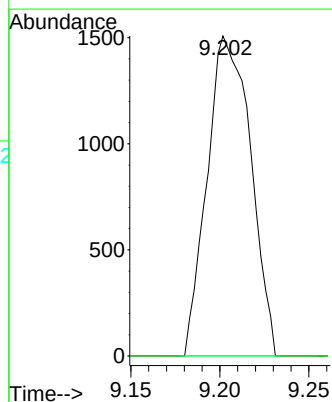
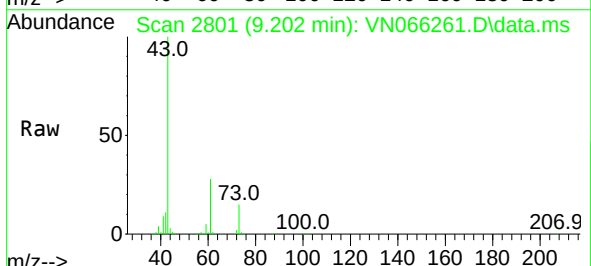
RT: 9.202 min Scan# 2801

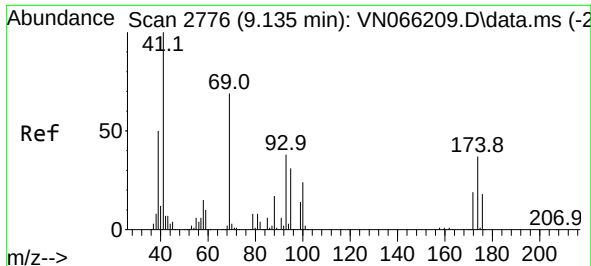
Delta R.T. 0.153 min

Lab File: VN066261.D

Acq: 18 Mar 2021 17:18

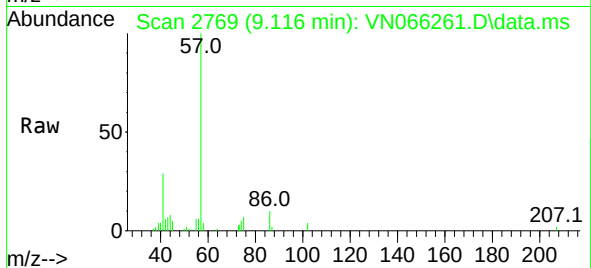
Tgt Ion:	63	Resp:	2562
Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.6	37.0#



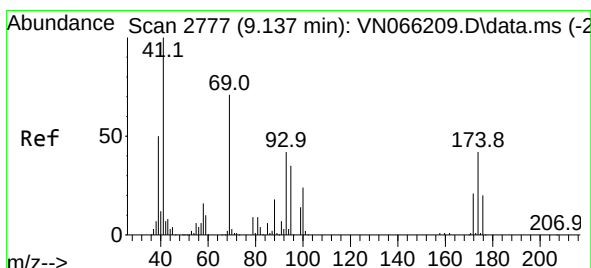
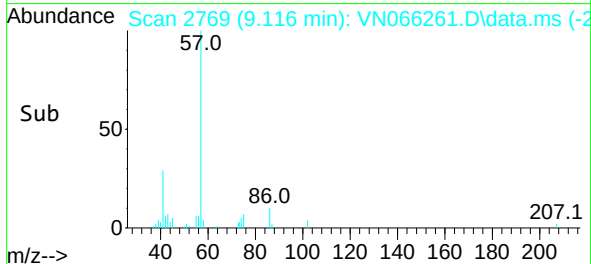
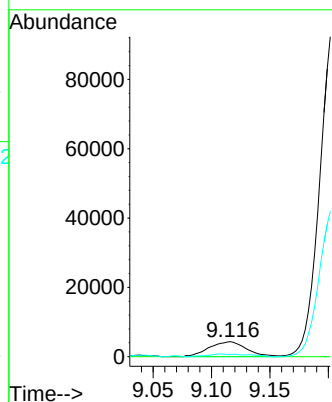


#48
Methyl methacrylate
Concen: 1.95 ug/l
RT: 9.116 min Scan# 2769
Delta R.T. -0.019 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Instrument :
MSVOA_N
ClientSampled :

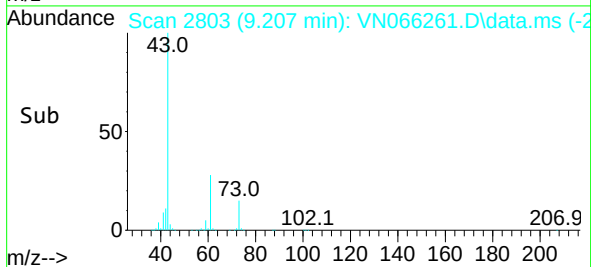
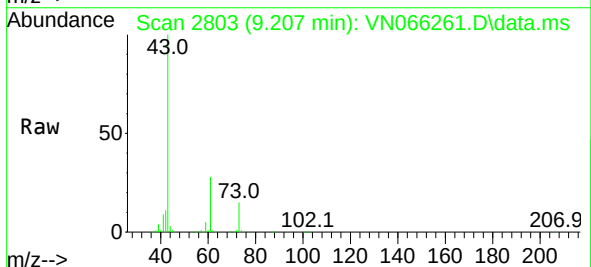
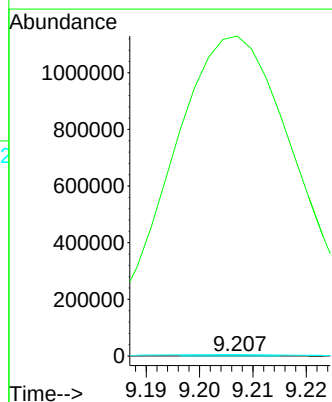


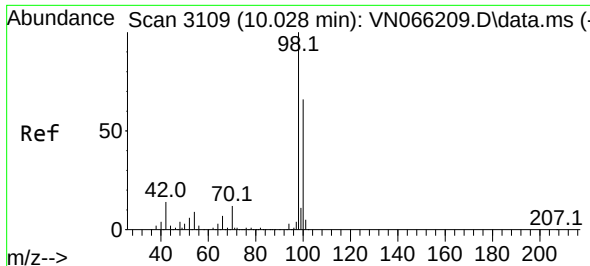
Tgt Ion: 41 Resp: 9658
Ion Ratio Lower Upper
41 100
69 0.0 54.7 82.1#
39 0.0 40.2 60.2#



#49
1,4-Dioxane
Concen: 2.47 ug/l
RT: 9.207 min Scan# 2803
Delta R.T. 0.070 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Tgt Ion: 88 Resp: 133
Ion Ratio Lower Upper
88 100
43 1520721.1 34.4 51.6#
58 7607.5 67.3 100.9#

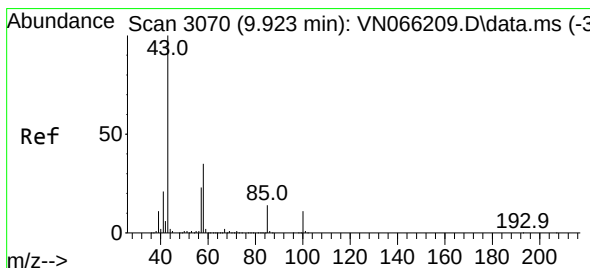
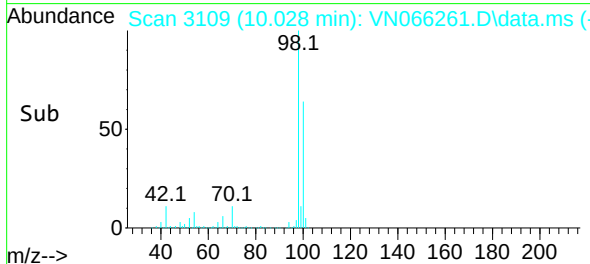
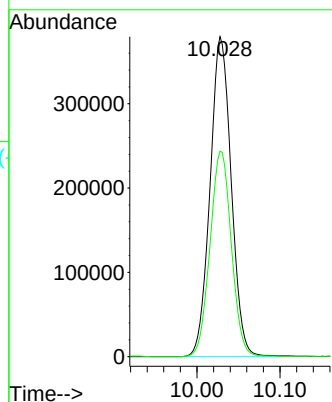
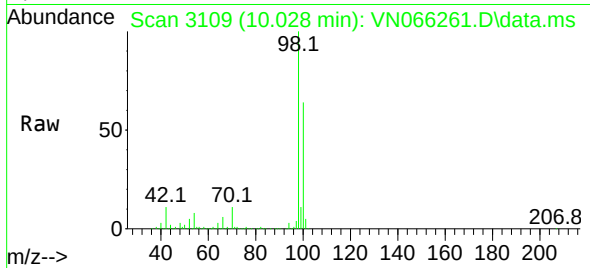




#50
Toluene-d8
Concen: 58.22 ug/l
RT: 10.028 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

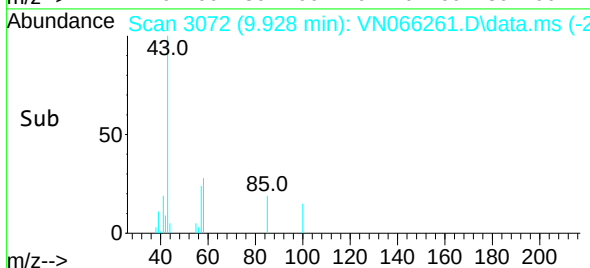
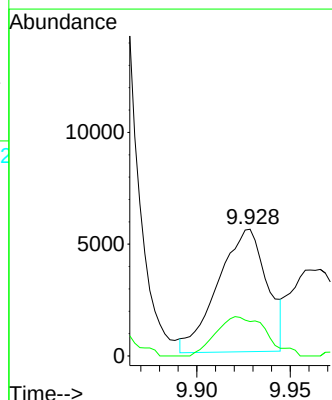
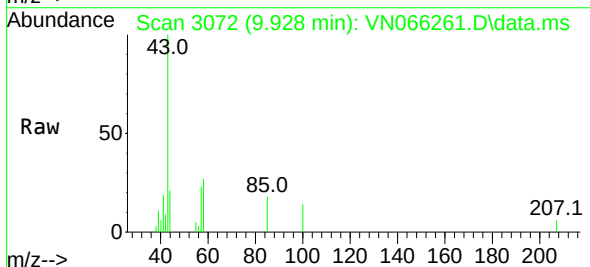
Instrument :
MSVOA_N
ClientSampled :

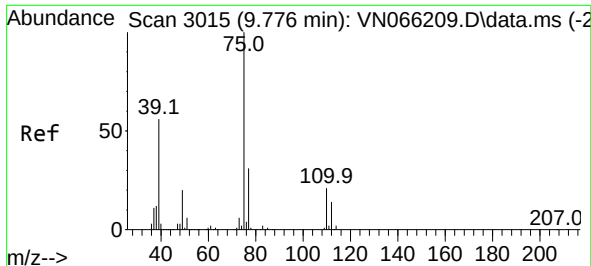
Tgt Ion: 98 Resp: 671769
Ion Ratio Lower Upper
98 100
100 64.8 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 1.58 ug/l
RT: 9.928 min Scan# 3072
Delta R.T. 0.005 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

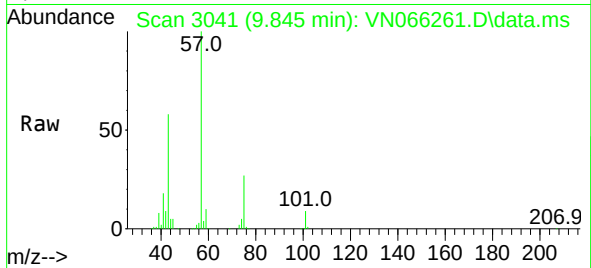
Tgt Ion: 43 Resp: 10002
Ion Ratio Lower Upper
43 100
58 33.0 27.5 41.3



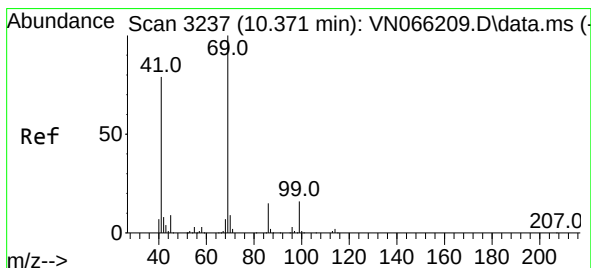
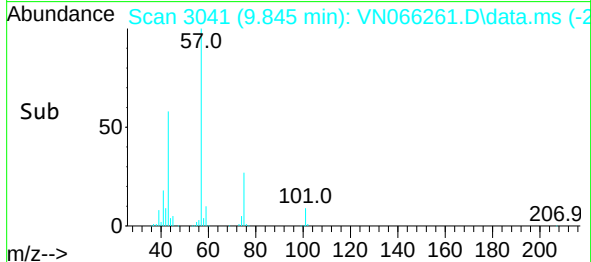
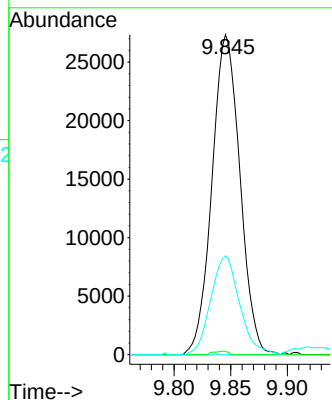


#54
 cis-1,3-Dichloropropene
 Concen: 7.64 ug/l
 RT: 9.845 min Scan# 3041
 Delta R.T. 0.069 min
 Lab File: VN066261.D
 Acq: 18 Mar 2021 17:18

Instrument :
 MSVOA_N
 ClientSampled :

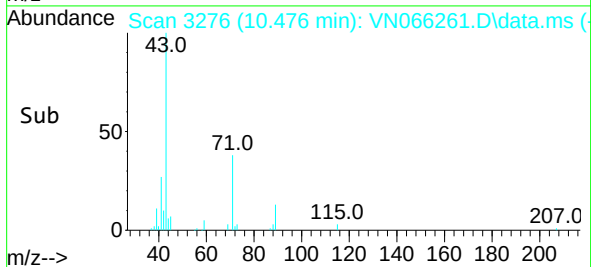
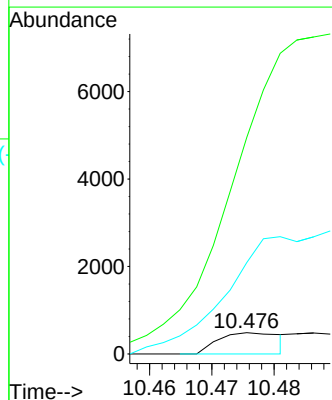
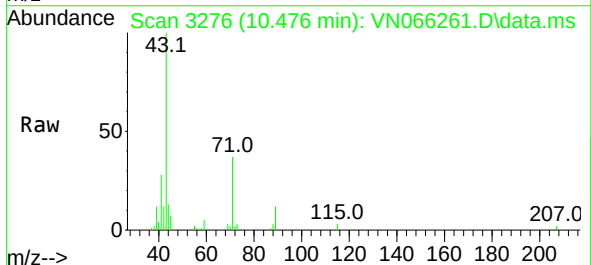


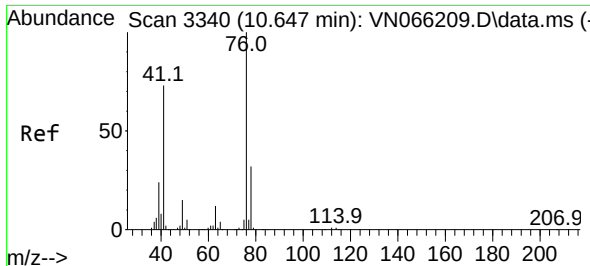
Tgt Ion: 75 Resp: 46900
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.0 37.4#
 39 30.9 46.2 69.2#



#56
 Ethyl methacrylate
 Concen: 2.21 ug/l
 RT: 10.476 min Scan# 3276
 Delta R.T. 0.105 min
 Lab File: VN066261.D
 Acq: 18 Mar 2021 17:18

Tgt Ion: 69 Resp: 338
 Ion Ratio Lower Upper
 69 100
 41 4098.8 66.2 99.4#
 39 1556.5 31.5 47.3#

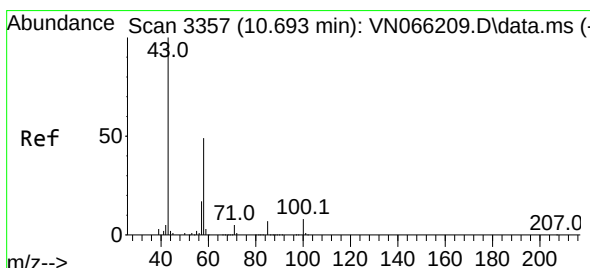
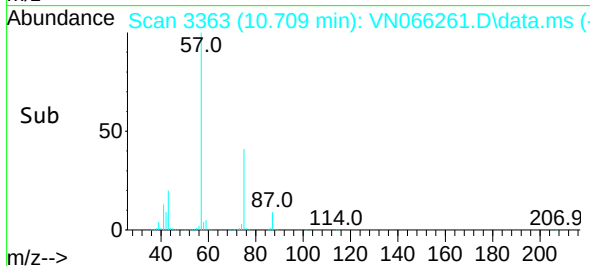
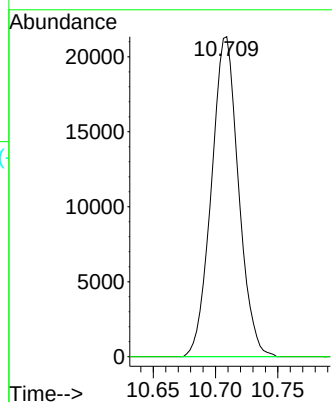
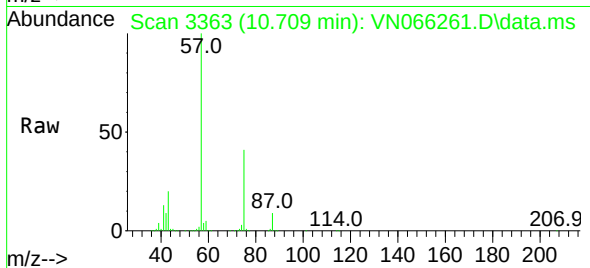




#57
1,3-Dichloropropane
Concen: 5.31 ug/l
RT: 10.709 min Scan# 3363
Delta R.T. 0.062 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

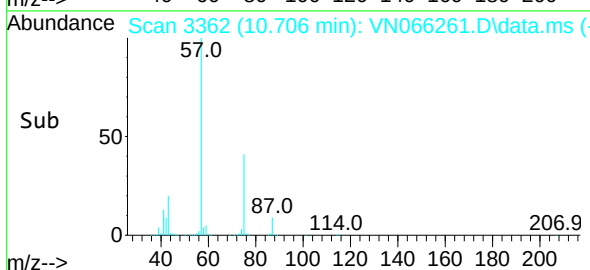
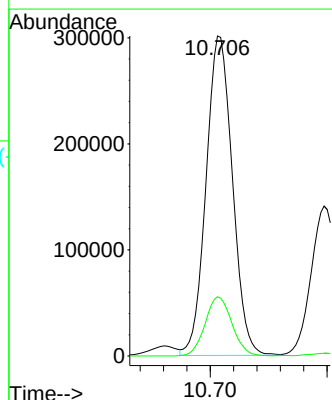
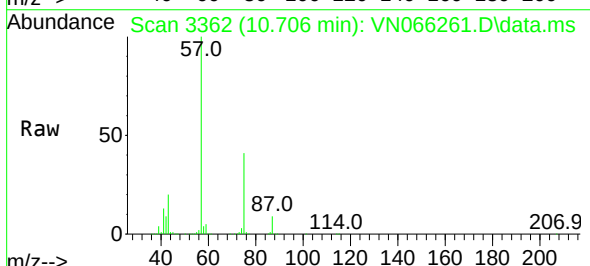
Instrument :
MSVOA_N
ClientSampled :

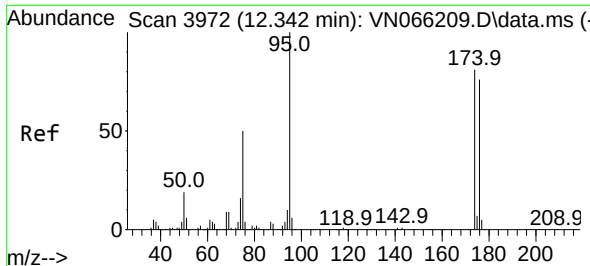
Tgt Ion: 76 Resp: 32330
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.2#



#59
2-Hexanone
Concen: 96.25 ug/l
RT: 10.706 min Scan# 3362
Delta R.T. 0.013 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Tgt Ion: 43 Resp: 472032
Ion Ratio Lower Upper
43 100
58 18.9 23.8 71.5#

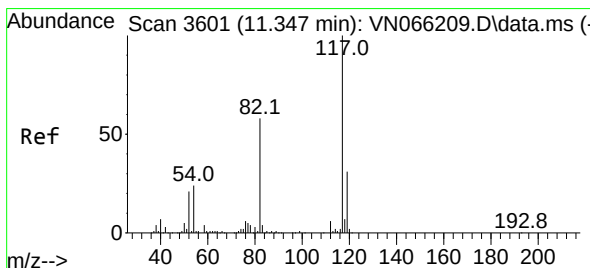
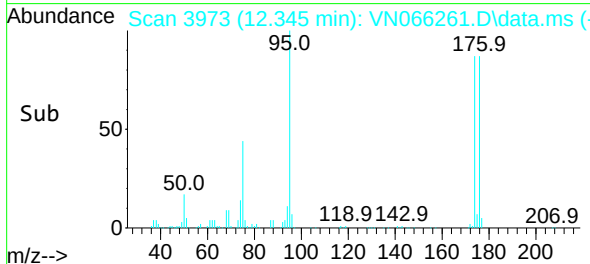
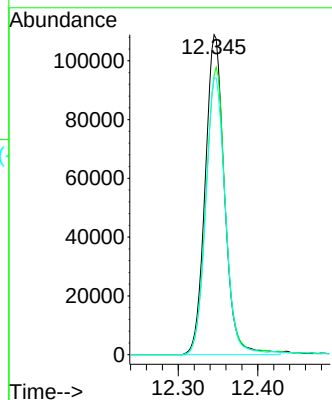
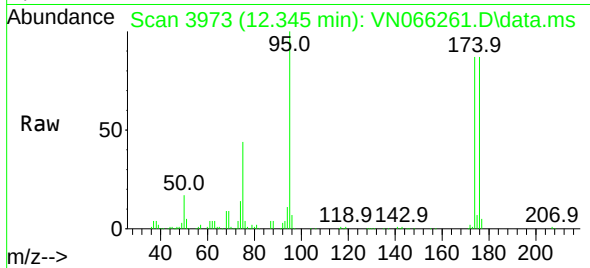




#62
4-Bromofluorobenzene
Concen: 44.11 ug/l
RT: 12.345 min Scan# 3973
Delta R.T. 0.003 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

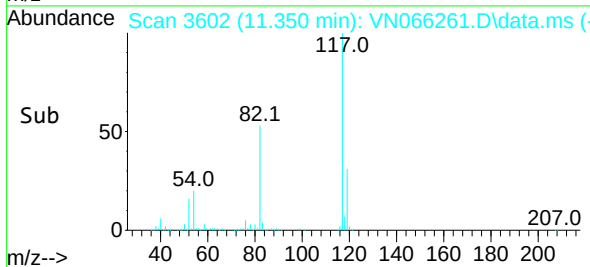
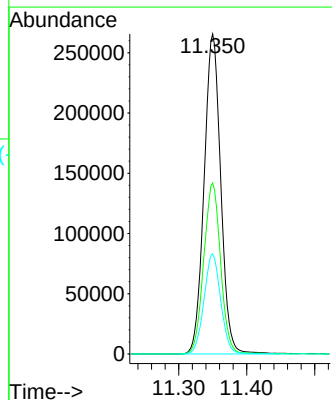
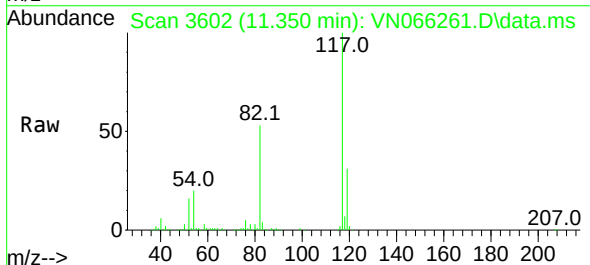
Instrument :
MSVOA_N
ClientSampleId :

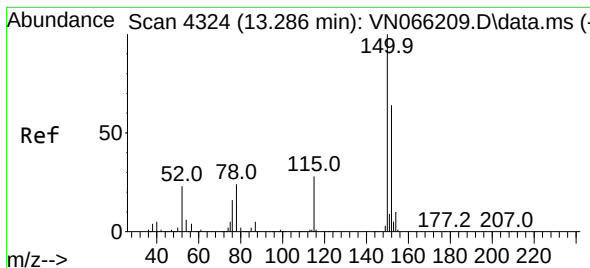
Tgt Ion: 95 Resp: 183460
Ion Ratio Lower Upper
95 100
174 91.0 0.0 162.4
176 87.7 0.0 156.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.350 min Scan# 3602
Delta R.T. 0.003 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Tgt Ion: 117 Resp: 452482
Ion Ratio Lower Upper
117 100
82 53.5 49.0 73.6
119 31.2 25.7 38.5

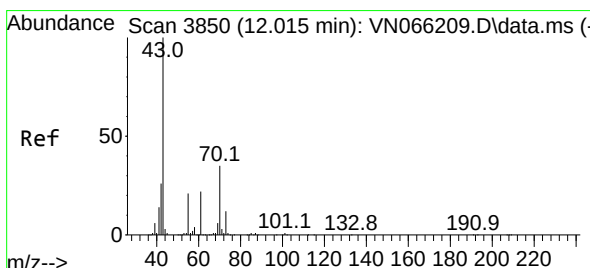
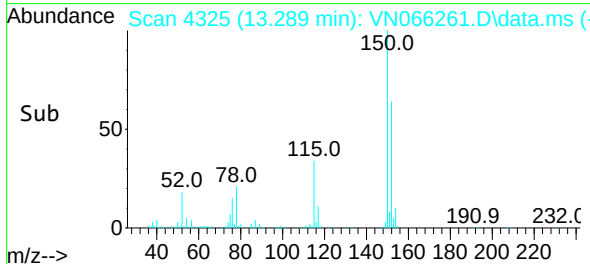
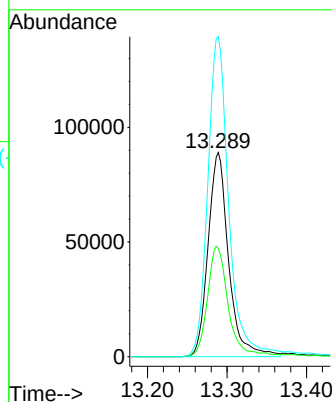
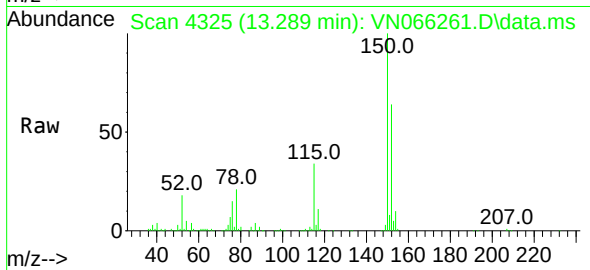




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.289 min Scan# 4325
Delta R.T. 0.003 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

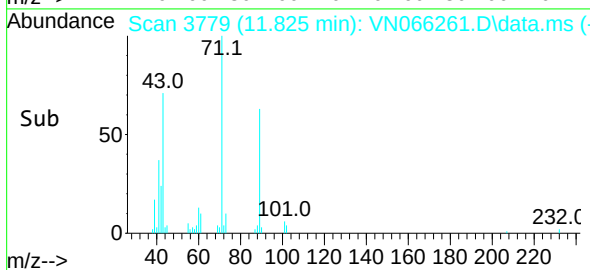
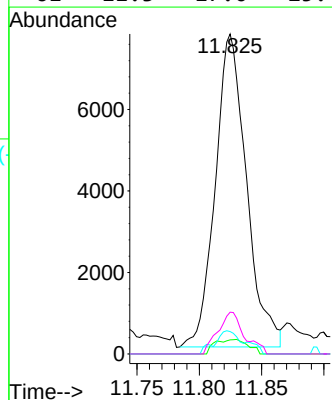
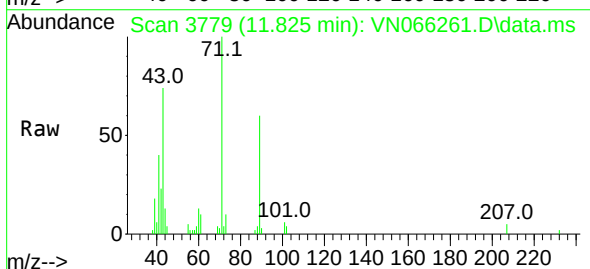
Instrument :
MSVOA_N
ClientSampled :

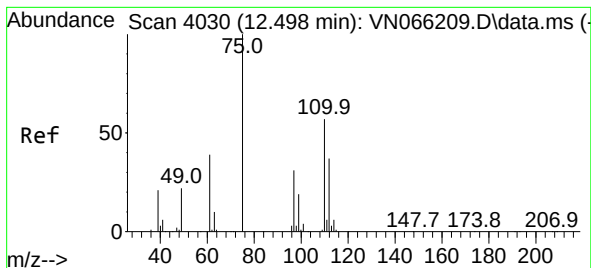
Tgt Ion:152 Resp: 159881
Ion Ratio Lower Upper
152 100
115 53.6 29.4 88.3
150 161.5 0.0 352.2



#74
N-ethyl acetate
Concen: 4.21 ug/l
RT: 11.825 min Scan# 3779
Delta R.T. -0.190 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Tgt Ion: 43 Resp: 13361
Ion Ratio Lower Upper
43 100
70 4.9 26.2 39.4#
55 5.6 17.2 25.8#
61 11.3 17.0 25.4#

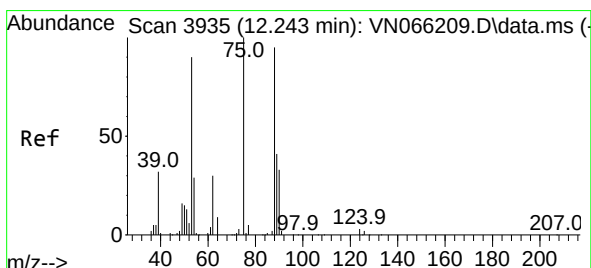
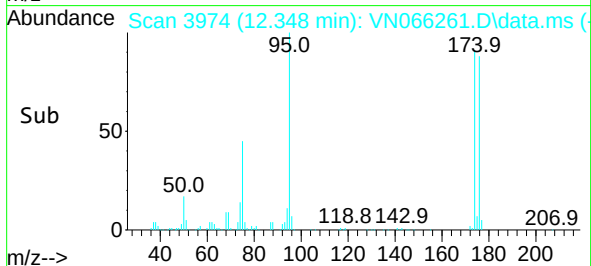
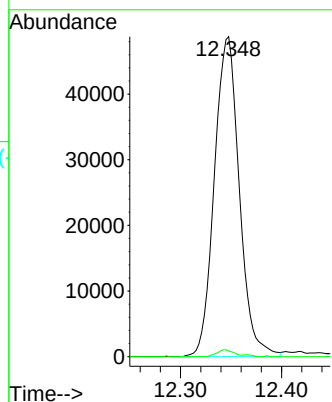
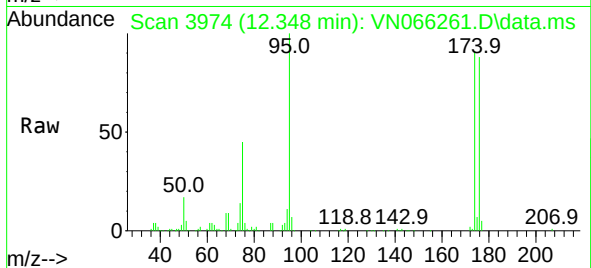




#76
1,2,3-Trichloropropane
Concen: 20.25 ug/l
RT: 12.348 min Scan# 3974
Delta R.T. -0.150 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

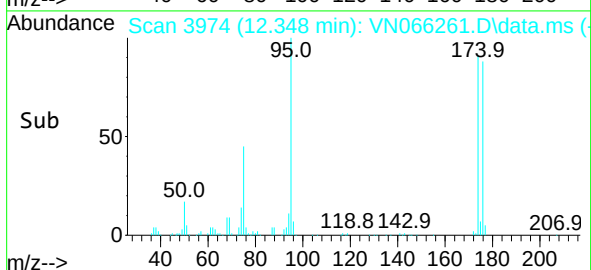
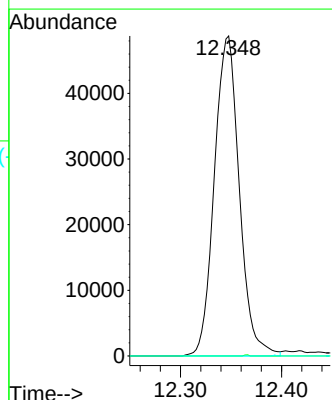
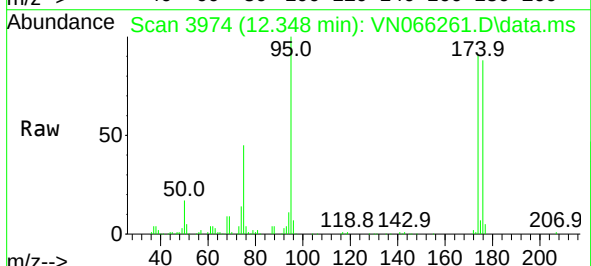
Instrument :
MSVOA_N
ClientSampled :

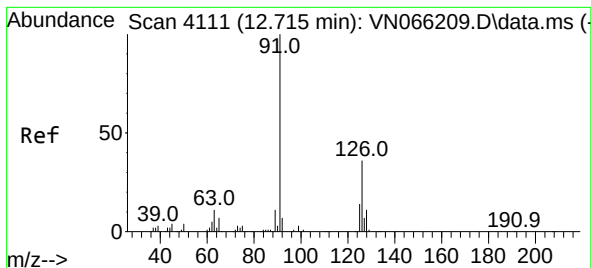
Tgt Ion: 75 Resp: 83621
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.61 ug/l
RT: 12.348 min Scan# 3974
Delta R.T. 0.105 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

Tgt Ion: 75 Resp: 83621
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.6#
89 0.0 33.7 50.5#

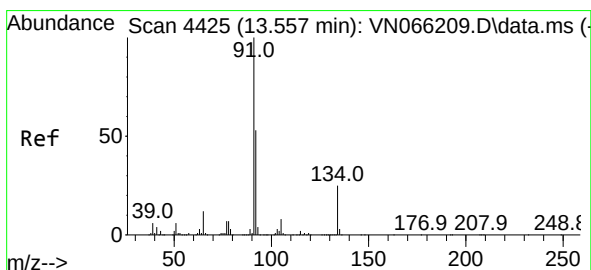
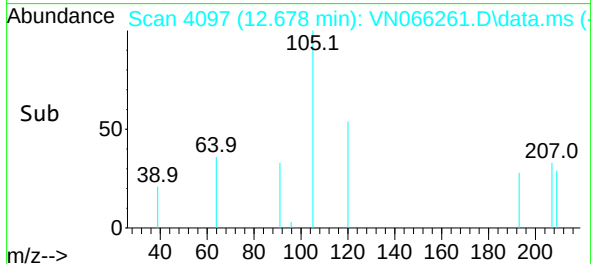
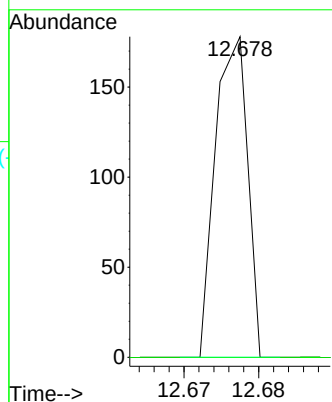
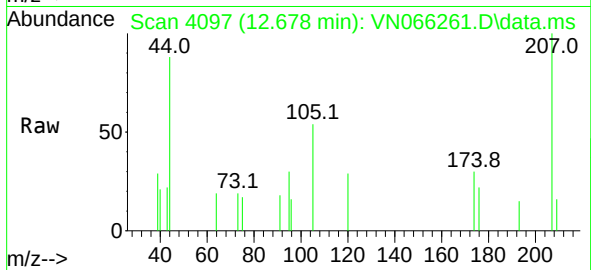




#82
4-Chlorotoluene
Concen: 0.47 ug/l
RT: 12.678 min Scan# 4097
Delta R.T. -0.037 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

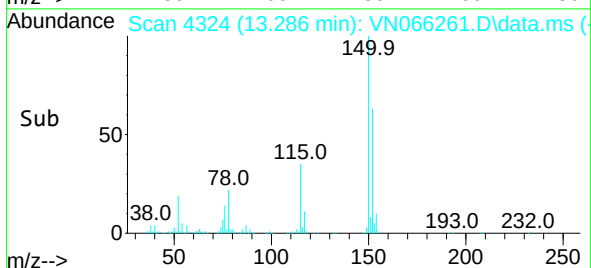
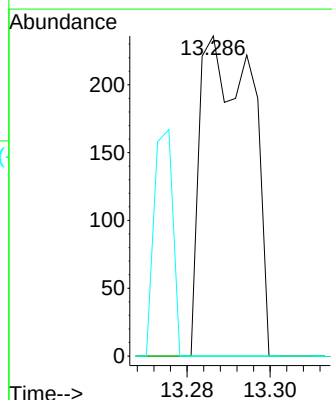
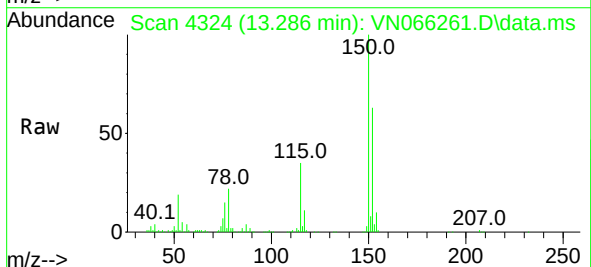
Instrument :
MSVOA_N
ClientSampled :

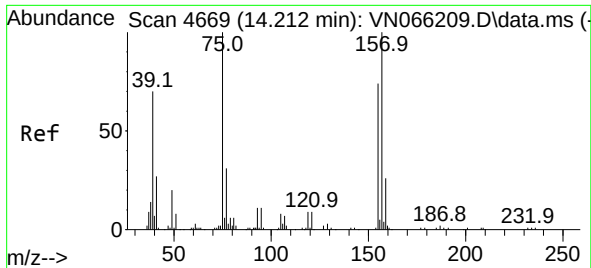
Tgt Ion: 91 Resp: 53
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.1#



#89
n-Butylbenzene
Concen: 2.26 ug/l
RT: 13.286 min Scan# 4324
Delta R.T. -0.271 min
Lab File: VN066261.D
Acq: 18 Mar 2021 17:18

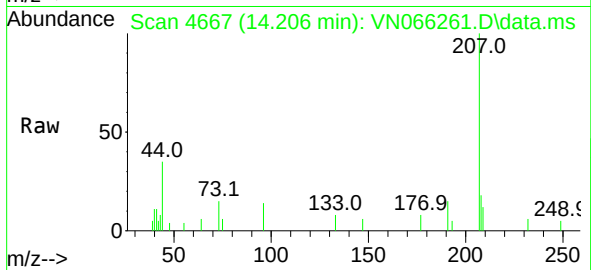
Tgt Ion: 91 Resp: 200
Ion Ratio Lower Upper
91 100
92 0.0 25.7 77.0#
134 26.0 11.8 35.4





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.03 ug/l
 RT: 14.206 min Scan# 4667
 Delta R.T. -0.006 min
 Lab File: VN066261.D
 Acq: 18 Mar 2021 17:18

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	75	Resp:	171
Ion	Ratio	Lower	Upper
75	100		
155	0.0	36.5	109.7#
157	0.0	46.3	138.8#

