

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112321\
 Data File : VN069625.D
 Acq On : 23 Nov 2021 14:17
 Operator : JC/MD
 Sample : M4797-01 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 24 02:26:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

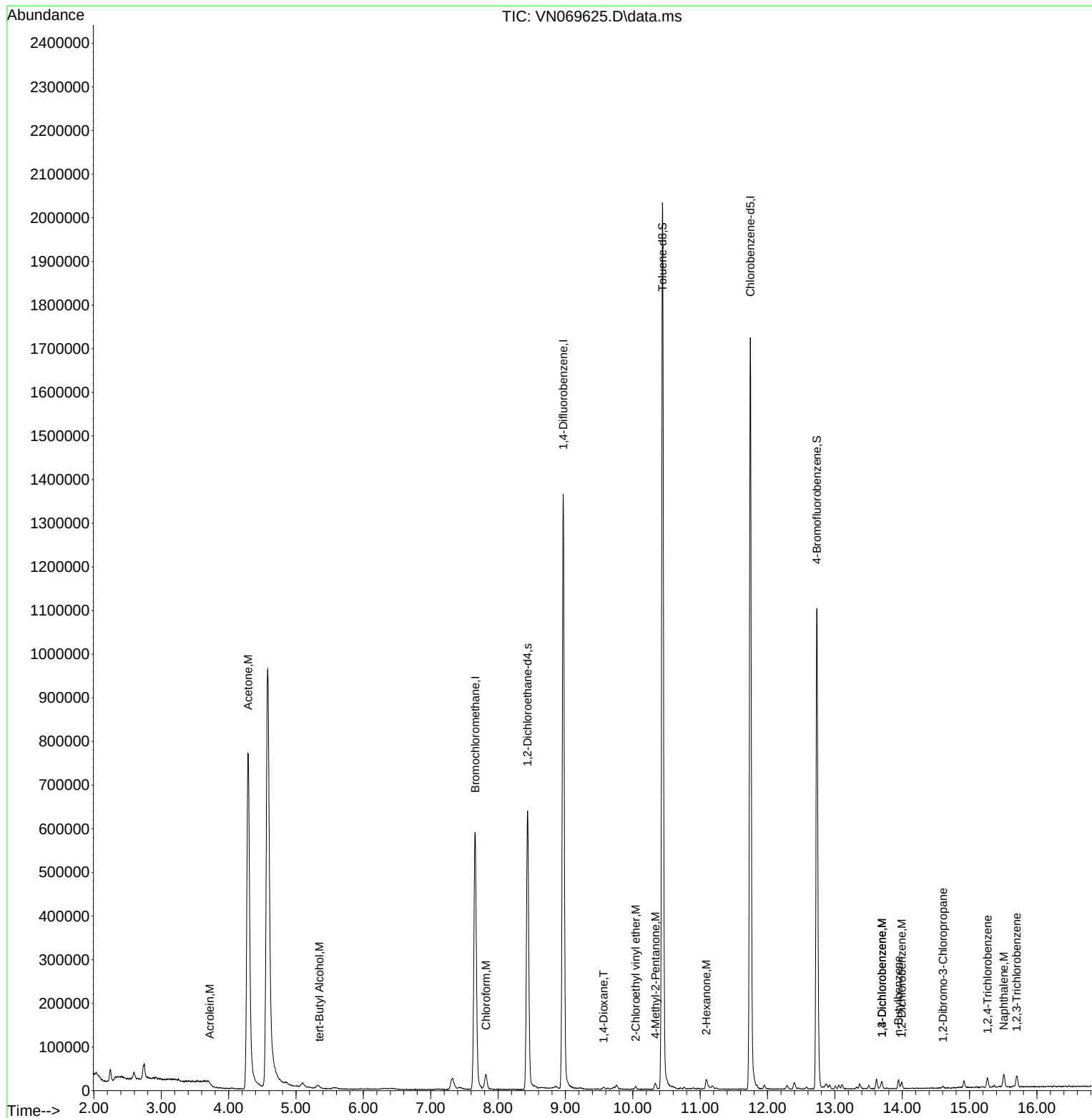
Internal Standards						
1) Bromochloromethane	7.662	128	206776	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1165907	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	991071	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	561561	31.314	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.367%
60) 4-Bromofluorobenzene	12.734	95	399012	25.159	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.867%
63) Toluene-d8	10.440	98	1408617	30.782	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.600%
Target Compounds						
					Qvalue	
13) Acrolein	3.719	56	214	0.262	ug/l	89
15) Acetone	4.291	58	410246	151.643	ug/l	74
23) tert-Butyl Alcohol	5.347	59	600	0.212	ug/l #	100
25) Chloroform	7.820	83	31556	1.278	ug/l	99
45) 1,4-Dioxane	9.566	88	367	1.215	ug/l #	77
55) 2-Chloroethyl vinyl ether	10.044	63	3007	0.578	ug/l #	78
58) 4-Methyl-2-Pentanone	10.336	43	11677	0.537	ug/l #	86
59) 2-Hexanone	11.089	43	23187	1.401	ug/l #	79
83) 1,3-Dichlorobenzene	13.699	146	6836	0.296	ug/l	91
84) 1,4-Dichlorobenzene	13.699	146	6836	0.305	ug/l	89
85) n-Butylbenzene	13.943	91	11241	0.285	ug/l	98
87) 1,2-Dichlorobenzene	13.994	146	5959	0.267	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.606	75	964	0.285	ug/l #	46
89) 1,2,4-Trichlorobenzene	15.268	180	6575	0.615	ug/l	93
91) Naphthalene	15.507	128	27485	0.892	ug/l	97
92) 1,2,3-Trichlorobenzene	15.700	180	9227	0.878	ug/l	92

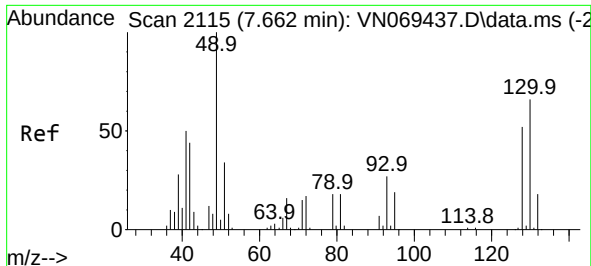
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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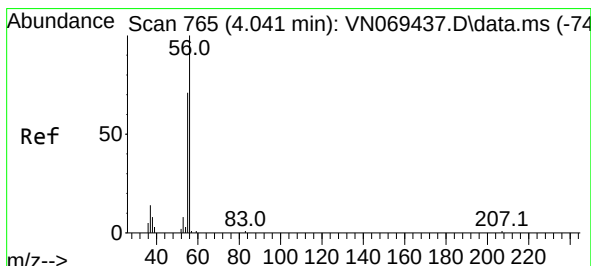
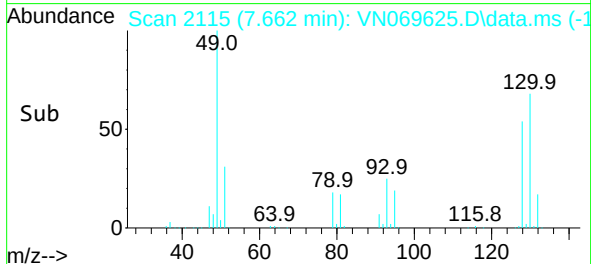
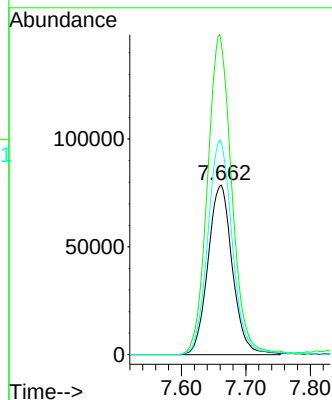
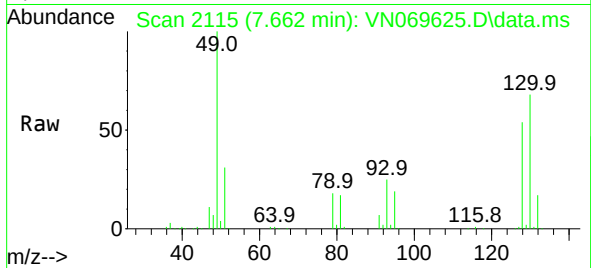




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.662 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

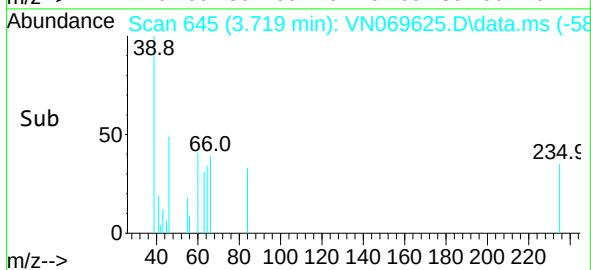
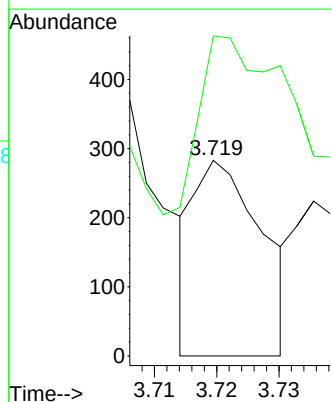
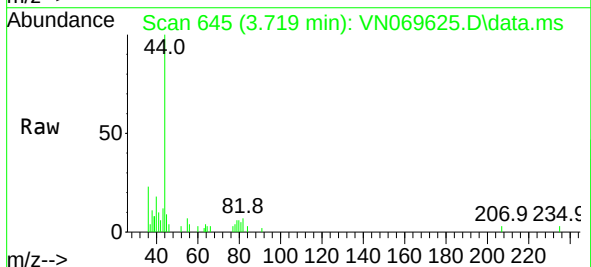
Instrument :
MSVOA_N
ClientSampleId :

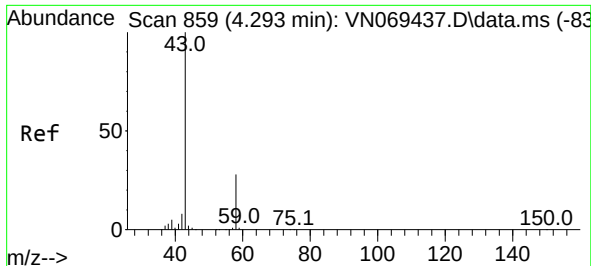
Tgt Ion:128 Resp: 206776
Ion Ratio Lower Upper
128 100
49 186.9 0.0 392.3
130 127.2 0.0 320.2



#13
Acrolein
Concen: 0.262 ug/l
RT: 3.719 min Scan# 645
Delta R.T. -0.327 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

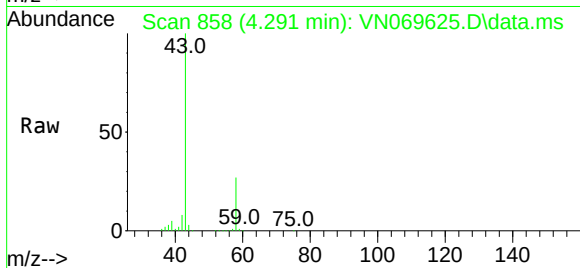
Tgt Ion: 56 Resp: 214
Ion Ratio Lower Upper
56 100
55 80.8 57.6 86.4



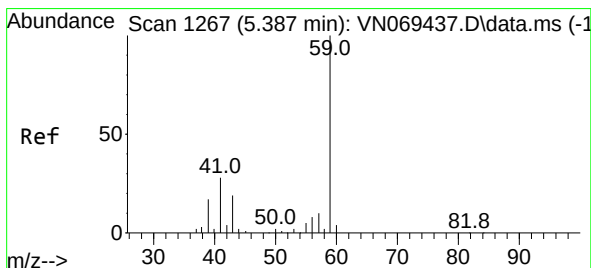
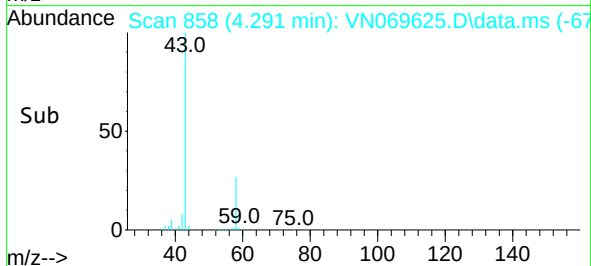
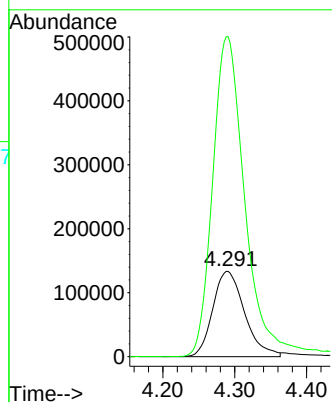


#15
Acetone
Concen: 151.643 ug/l
RT: 4.291 min Scan# 859
Delta R.T. 0.003 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Instrument :
MSVOA_N
ClientSampleId :

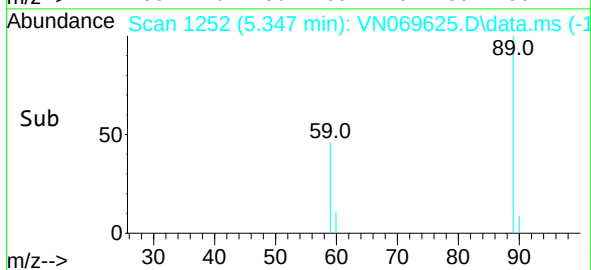
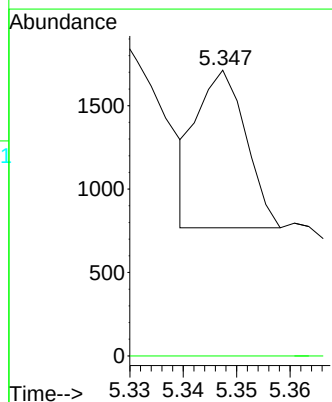
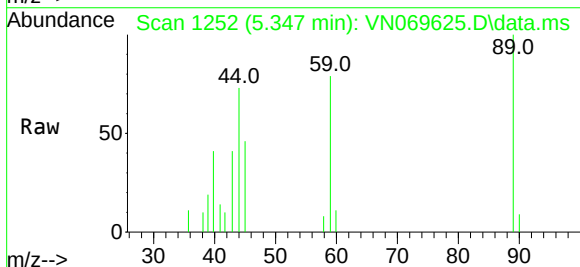


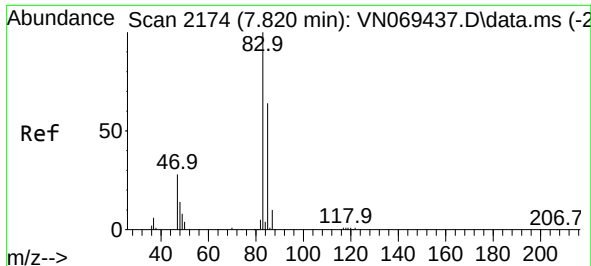
Tgt Ion: 58 Resp: 410246
Ion Ratio Lower Upper
58 100
43 374.7 256.6 384.8



#23
tert-Butyl Alcohol
Concen: 0.212 ug/l
RT: 5.347 min Scan# 1252
Delta R.T. -0.019 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Tgt Ion: 59 Resp: 600
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

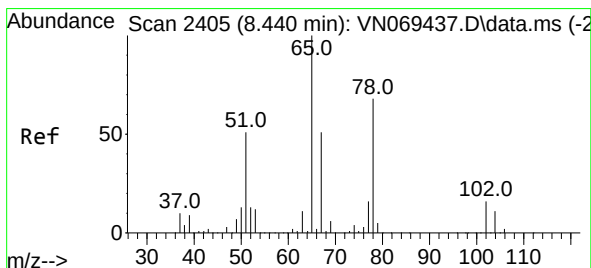
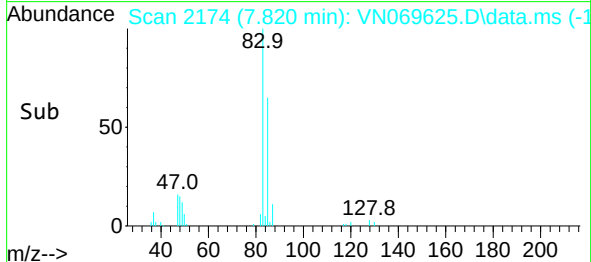
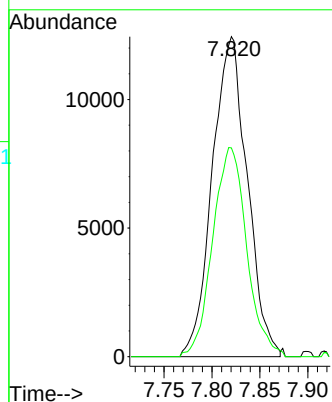
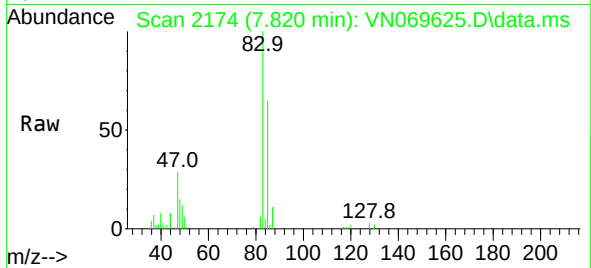




#25
Chloroform
Concen: 1.278 ug/l
RT: 7.820 min Scan# 2174
Delta R.T. 0.000 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

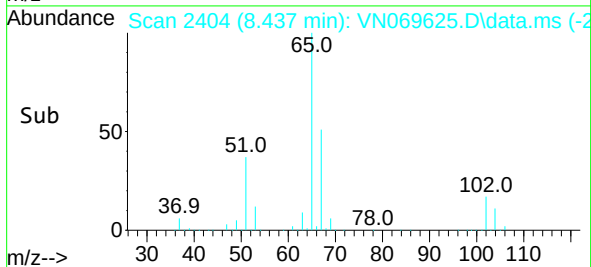
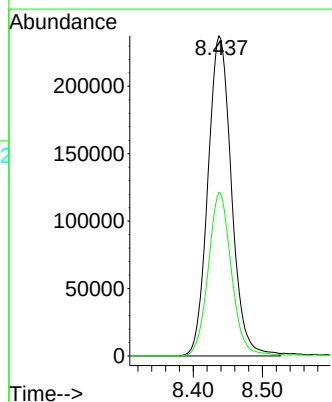
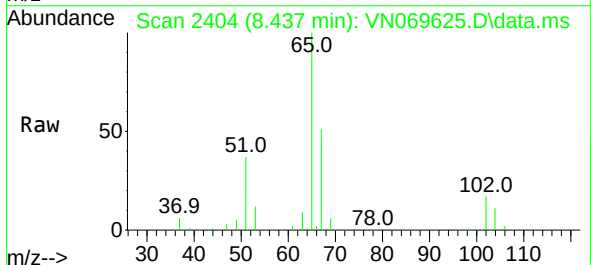
Instrument :
MSVOA_N
ClientSampleId :

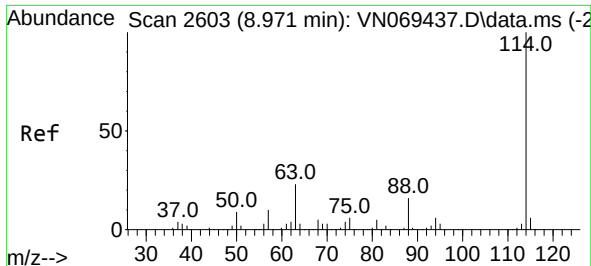
Tgt Ion: 83 Resp: 31556
Ion Ratio Lower Upper
83 100
85 65.3 51.3 76.9



#27
1,2-Dichloroethane-d4
Concen: 31.314 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. -0.002 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Tgt Ion: 65 Resp: 561561
Ion Ratio Lower Upper
65 100
67 50.1 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.968 min Scan# 2

Delta R.T. -0.002 min

Lab File: VN069625.D

Acq: 23 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :

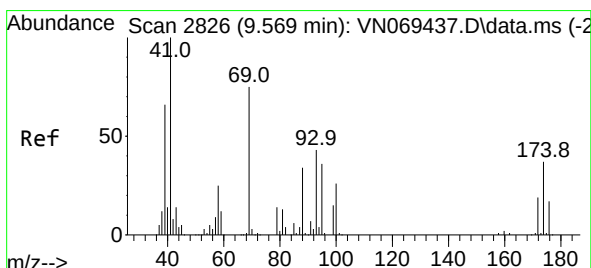
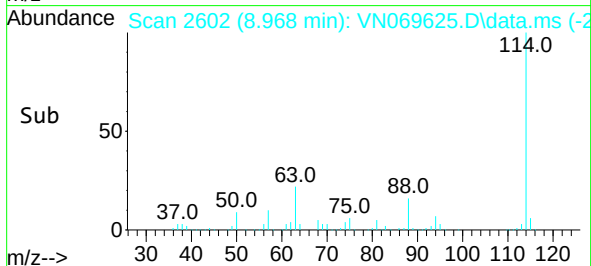
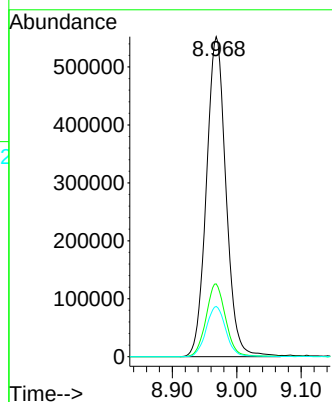
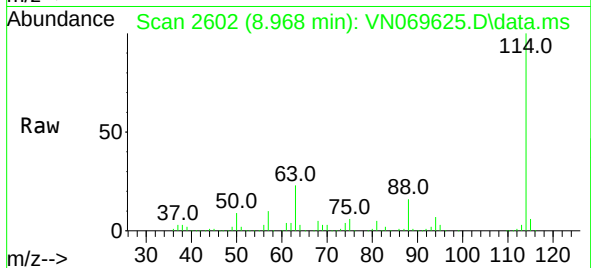
Tgt Ion:114 Resp: 1165907

Ion Ratio Lower Upper

114 100

63 22.6 15.8 23.6

88 15.8 11.6 17.4



#45

1,4-Dioxane

Concen: 1.215 ug/l

RT: 9.566 min Scan# 2825

Delta R.T. -0.002 min

Lab File: VN069625.D

Acq: 23 Nov 2021 14:17

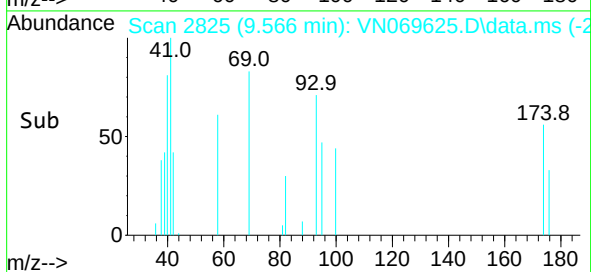
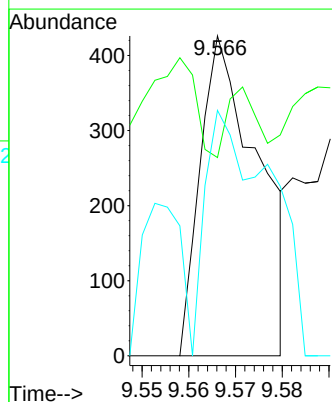
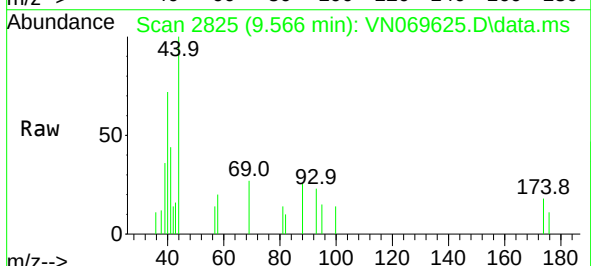
Tgt Ion: 88 Resp: 367

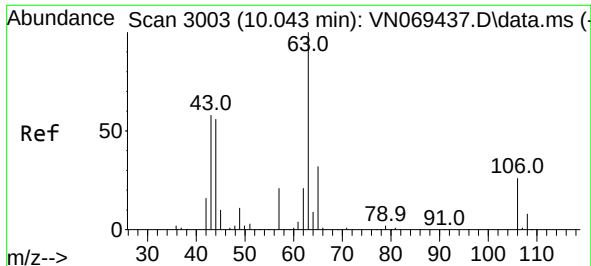
Ion Ratio Lower Upper

88 100

43 13.6 25.0 37.6#

58 47.4 49.4 74.2#

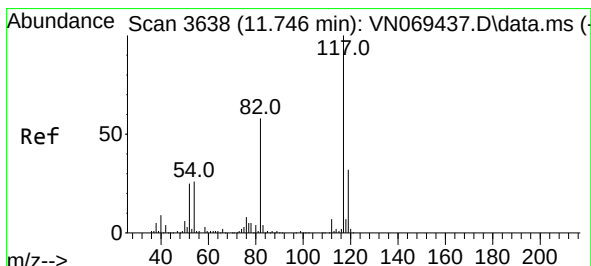
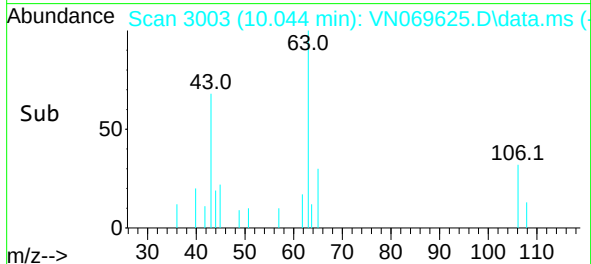
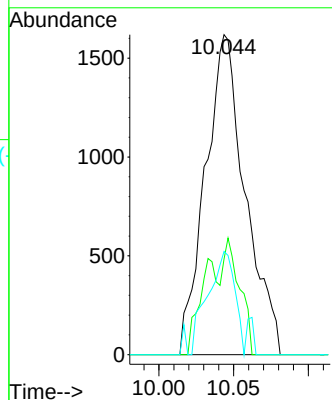
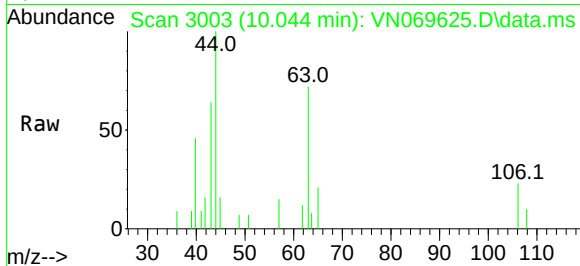




#55
2-Chloroethyl vinyl ether
Concen: 0.578 ug/l
RT: 10.044 min Scan# 3007
Delta R.T. 0.000 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

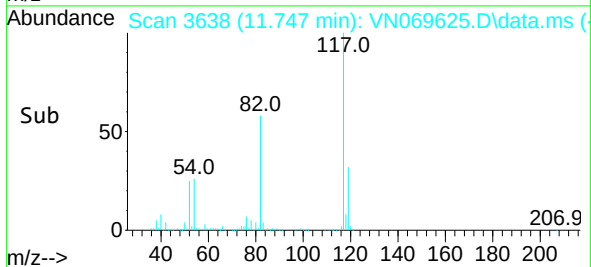
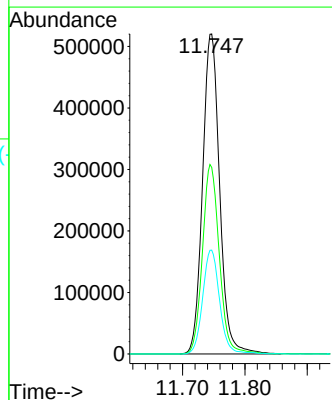
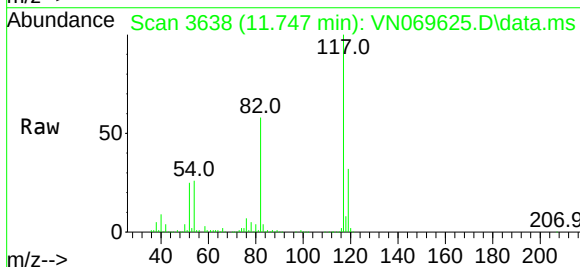
Instrument :
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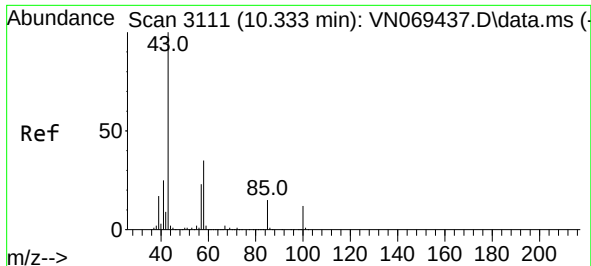
Tgt Ion: 63 Resp: 3007
Ion Ratio Lower Upper
63 100
65 15.1 25.4 38.0#
106 22.0 23.2 34.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Tgt Ion: 117 Resp: 991071
Ion Ratio Lower Upper
117 100
82 58.5 43.6 65.4
119 32.0 25.8 38.6

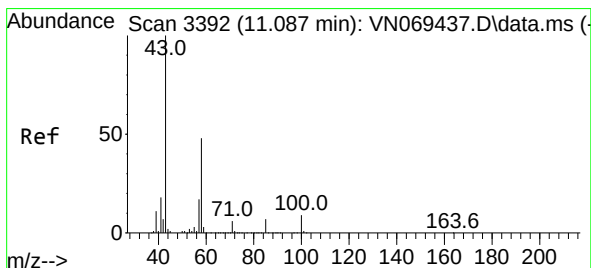
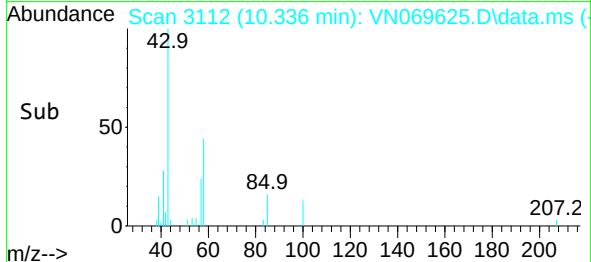
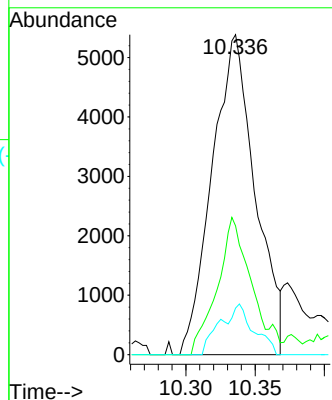
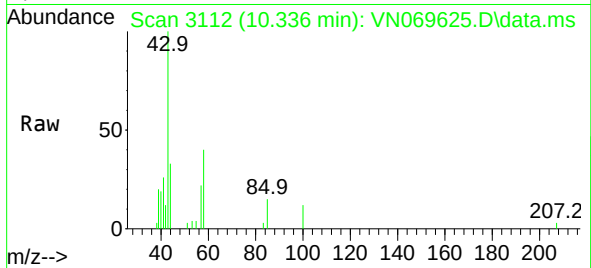




#58
4-Methyl-2-Pentanone
Concen: 0.537 ug/l
RT: 10.336 min Scan# 3111
Delta R.T. 0.006 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

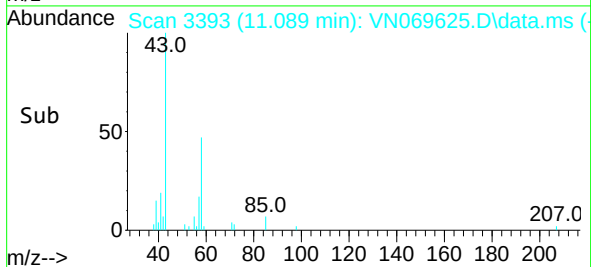
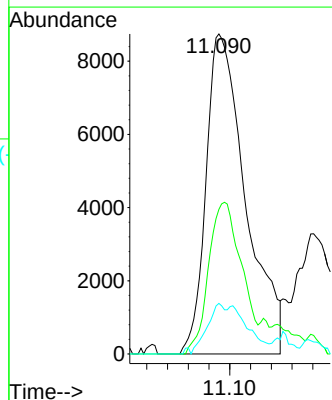
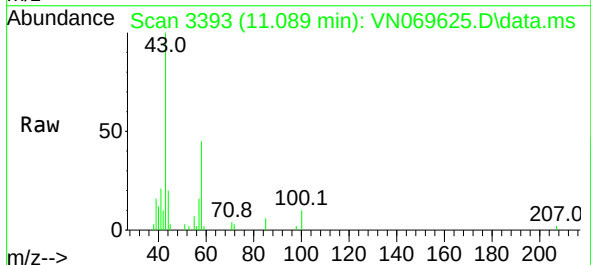
Instrument :
MSVOA_N
ClientSampleId :

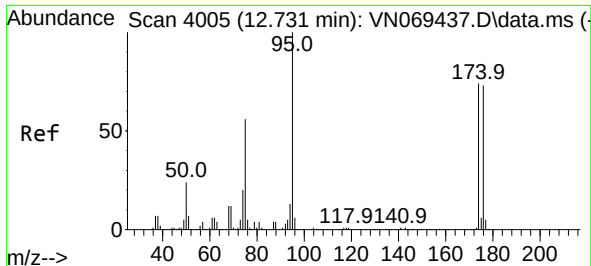
Tgt Ion: 43 Resp: 11677
Ion Ratio Lower Upper
43 100
58 32.0 30.0 45.0
85 7.9 15.0 22.6#



#59
2-Hexanone
Concen: 1.401 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.003 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Tgt Ion: 43 Resp: 23187
Ion Ratio Lower Upper
43 100
58 39.5 42.2 63.2#
57 6.9 15.0 22.4#

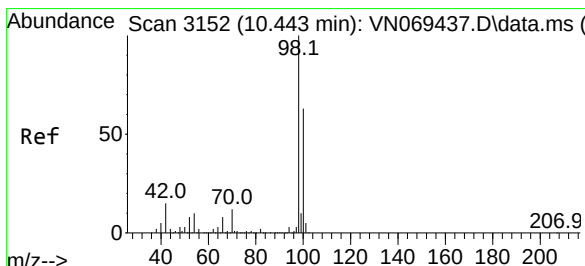
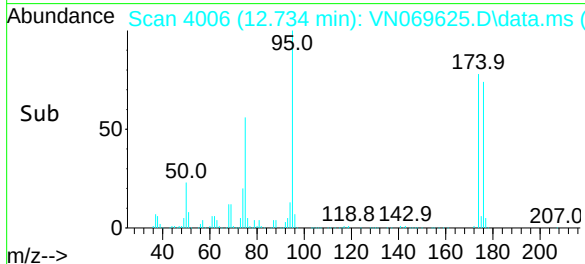
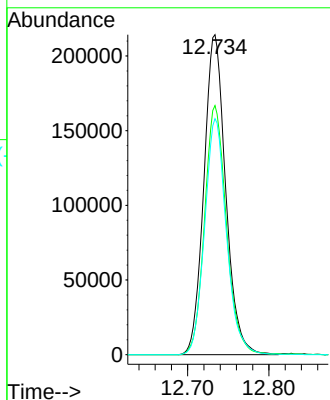
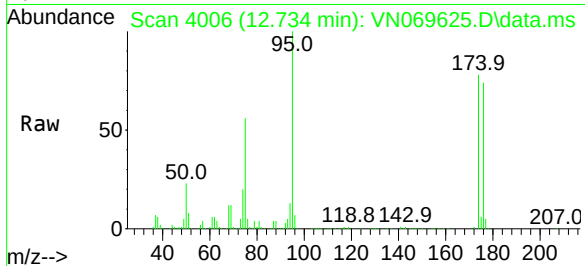




#60
4-Bromofluorobenzene
Concen: 25.159 ug/l
RT: 12.734 min Scan# 4005
Delta R.T. 0.000 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

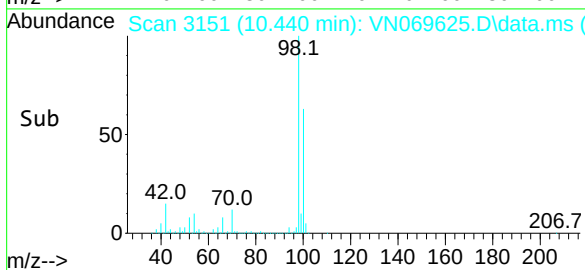
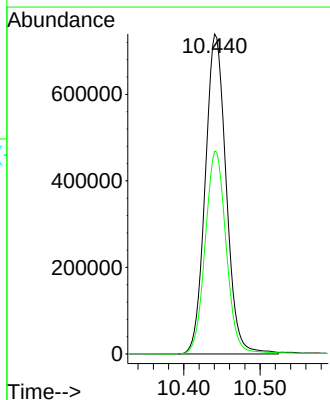
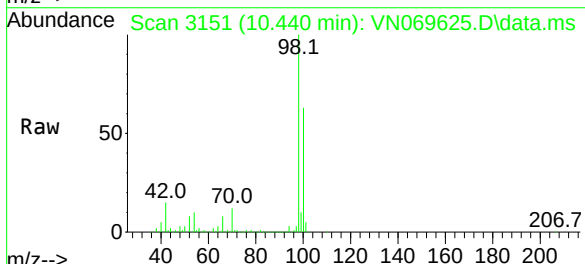
Instrument :
MSVOA_N
ClientSampleId :

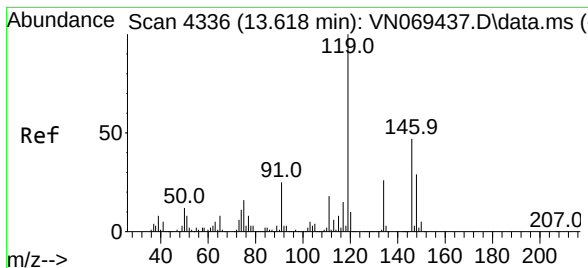
Tgt Ion: 95 Resp: 399012
Ion Ratio Lower Upper
95 100
174 78.0 62.9 94.3
176 73.8 61.0 91.4



#63
Toluene-d8
Concen: 30.782 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.002 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Tgt Ion: 98 Resp: 1408617
Ion Ratio Lower Upper
98 100
100 63.4 50.6 76.0





#83

1,3-Dichlorobenzene

Concen: 0.296 ug/l

RT: 13.699 min Scan# 4366

Delta R.T. 0.081 min

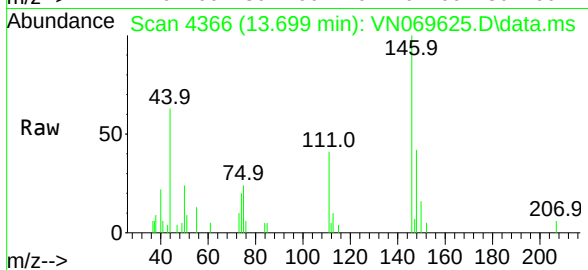
Lab File: VN069625.D

Acq: 23 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :



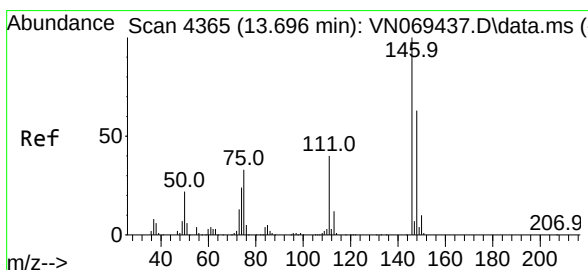
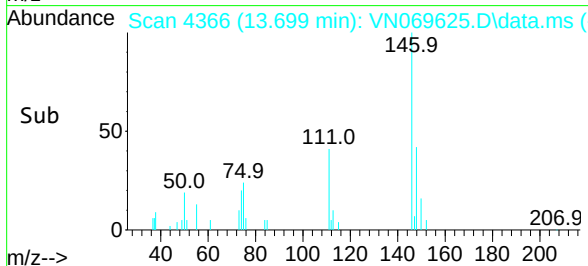
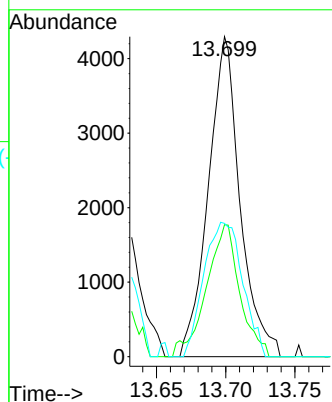
Tgt Ion:146 Resp: 6836

Ion Ratio Lower Upper

146 100

111 42.0 20.8 62.2

148 51.3 31.4 94.3



#84

1,4-Dichlorobenzene

Concen: 0.305 ug/l

RT: 13.699 min Scan# 4366

Delta R.T. 0.003 min

Lab File: VN069625.D

Acq: 23 Nov 2021 14:17

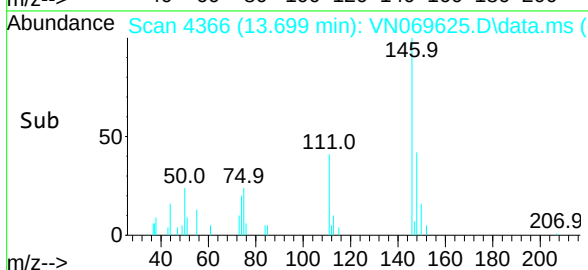
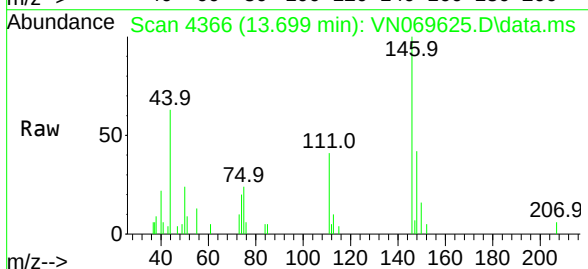
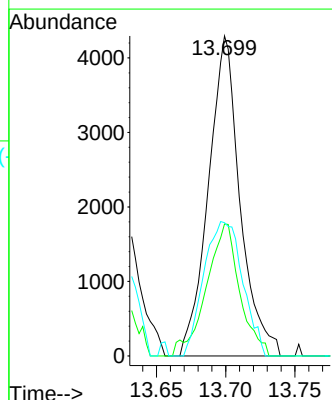
Tgt Ion:146 Resp: 6836

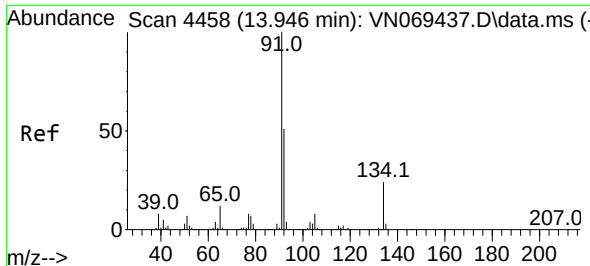
Ion Ratio Lower Upper

146 100

111 42.0 19.5 58.5

148 51.3 31.1 93.5

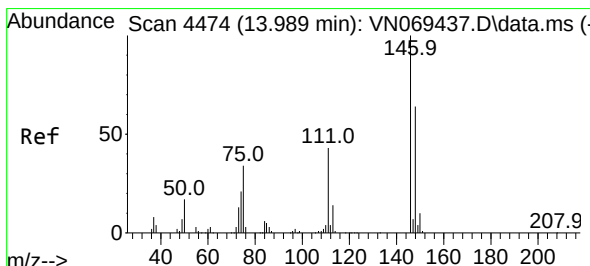
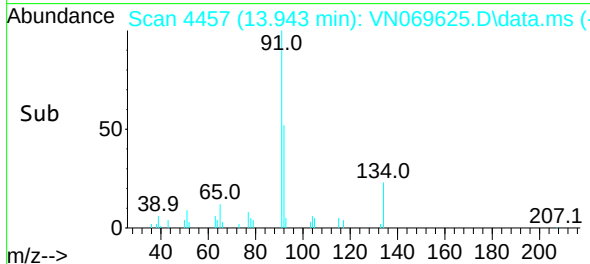
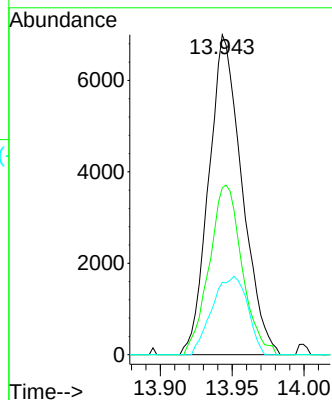
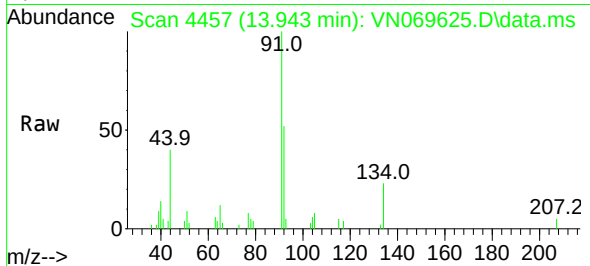




#85
n-Butylbenzene
Concen: 0.285 ug/l
RT: 13.943 min Scan# 4457
Delta R.T. 0.000 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

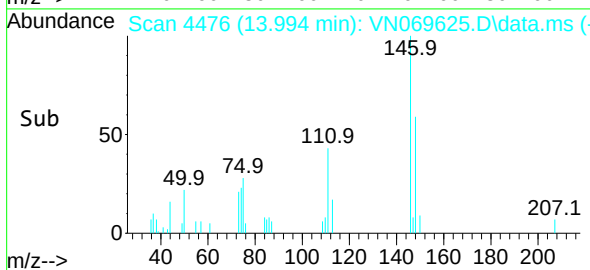
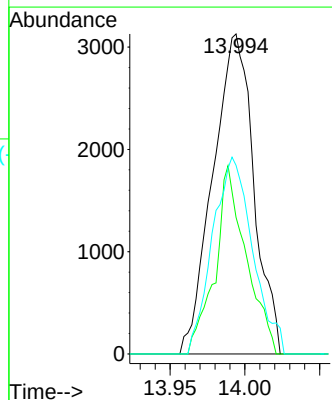
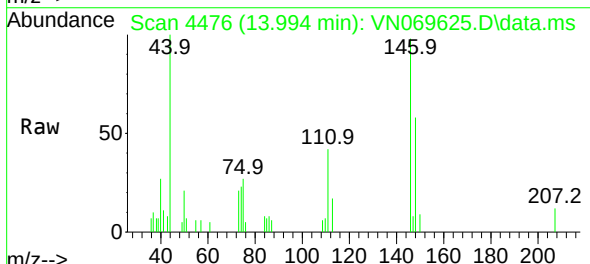
Instrument :
MSVOA_N
ClientSampleId :

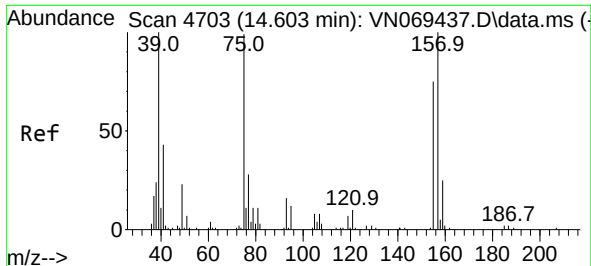
Tgt Ion: 91	Resp: 11241
Ion Ratio	Lower Upper
91	100
92	52.0 0.0 100.6
134	26.0 0.0 50.2



#87
1,2-Dichlorobenzene
Concen: 0.267 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.003 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Tgt Ion: 146	Resp: 5959
Ion Ratio	Lower Upper
146	100
111	44.7 21.4 64.2
148	58.7 32.5 97.4

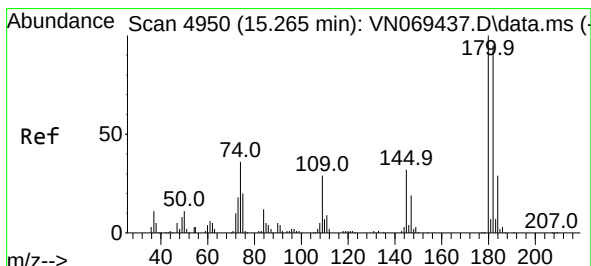
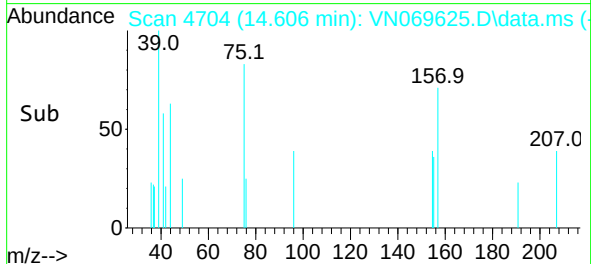
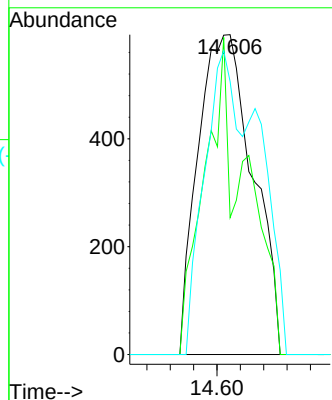
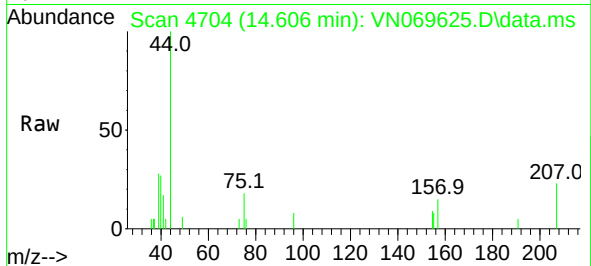




#88
1,2-Dibromo-3-Chloropropane
Concen: 0.285 ug/l
RT: 14.606 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

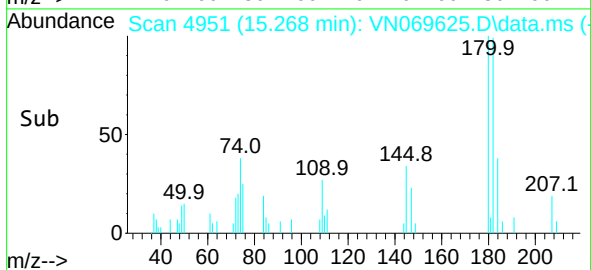
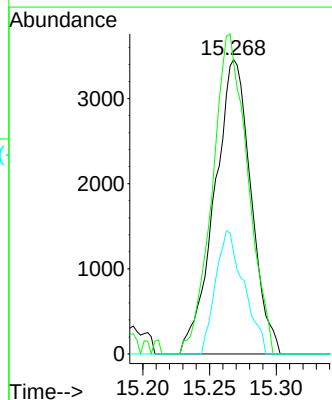
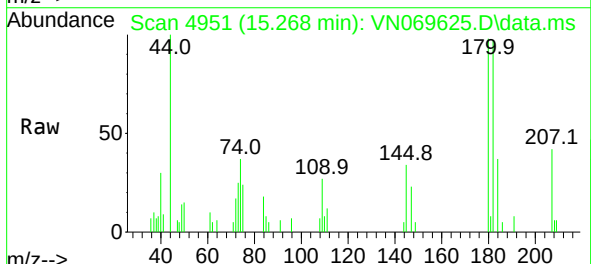
Instrument :
MSVOA_N
ClientSampleId :

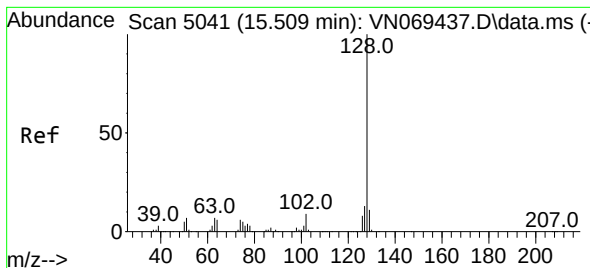
Tgt Ion: 75 Resp: 964
Ion Ratio Lower Upper
75 100
155 14.1 63.8 95.8#
157 60.4 77.9 116.9#



#89
1,2,4-Trichlorobenzene
Concen: 0.615 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN069625.D
Acq: 23 Nov 2021 14:17

Tgt Ion: 180 Resp: 6575
Ion Ratio Lower Upper
180 100
182 105.3 77.7 116.5
145 32.4 26.6 39.8





#91

Naphthalene

Concen: 0.892 ug/l

RT: 15.507 min Scan# 5041

Delta R.T. 0.000 min

Lab File: VN069625.D

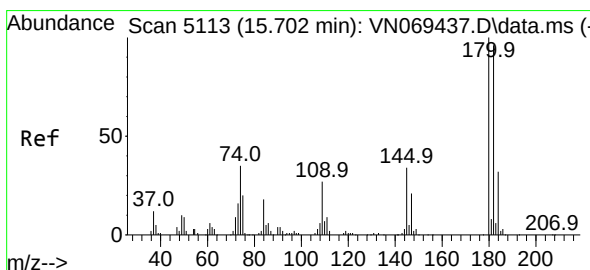
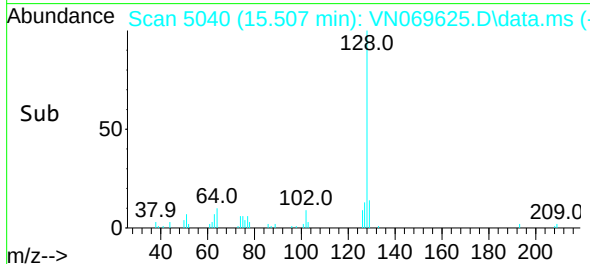
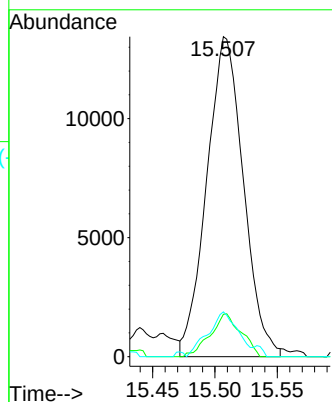
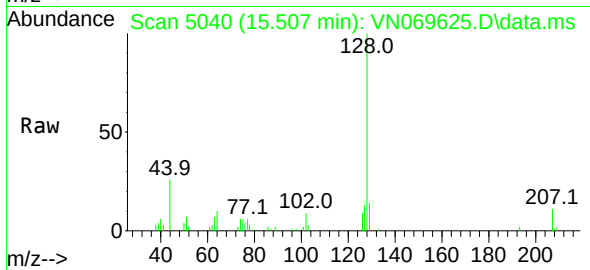
Acq: 23 Nov 2021 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	27485
Ion Ratio	Lower	Upper
128	100	
127	11.1	10.7 16.1
129	11.6	9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 0.878 ug/l

RT: 15.700 min Scan# 5112

Delta R.T. -0.002 min

Lab File: VN069625.D

Acq: 23 Nov 2021 14:17

Tgt Ion:180	Resp:	9227
Ion Ratio	Lower	Upper
180	100	
182	93.7	0.0 190.0
145	19.3	0.0 67.8

