

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
 Data File : VN067031.D
 Acq On : 7 May 2021 00:47
 Operator : JC/MD
 Sample : M2307-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-05

Manual Integrations
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 5/7/2021 6:23:51 PM

Quant Time: May 07 07:31:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 07:26:20 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.115	128	77076	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.520	114	415173	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.352	117	350951	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.954	65	202775	30.02	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.07%			
60) 4-Bromofluorobenzene	12.353	95	169362m	29.01	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.70%			
63) Toluene-d8	10.030	98	538595	30.98	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.27%			
Target Compounds						
						Qvalue
16) Carbon Disulfide	3.985	76	5017	0.35	ug/l #	91
20) Diisopropyl ether	5.868	45	74320	4.70	ug/l #	82
23) tert-Butyl Alcohol	4.704	59	115033	117.13	ug/l #	100
26) Cyclohexane	7.579	56	113877	15.58	ug/l #	57
34) Benzene	7.970	78	2256088	95.84	ug/l #	90
38) Methylcyclohexane	9.013	83	38895	5.38	ug/l	85
62) Toluene	10.097	91	57625	2.66	ug/l	99
64) Chlorobenzene	11.376	112	19664	1.56	ug/l	98
66) Ethyl Benzene	11.462	91	20214	0.92	ug/l	96
67) m/p-Xylenes	11.569	106	30001	3.64	ug/l	95
68) o-Xylene	11.897	106	4366	0.54	ug/l	91
70) Isopropylbenzene	12.197	105	109044	5.16	ug/l	100
74) n-propylbenzene	12.540	91	199686	8.25	ug/l	100
76) 1,3,5-Trimethylbenzene	12.680	105	18347m	0.98	ug/l	
79) tert-butylbenzene	12.940	119	8291	0.52	ug/l	87
80) 1,2,4-Trimethylbenzene	12.991	105	36975	2.11	ug/l	95
81) sec-Butylbenzene	13.122	105	21423	1.02	ug/l	82
82) p-Isopropyltoluene	13.238	119	8516	0.51	ug/l	93
87) 1,2-Dichlorobenzene	13.602	146	11049	1.26	ug/l	94
91) Naphthalene	15.080	128	57732	4.75	ug/l #	90

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

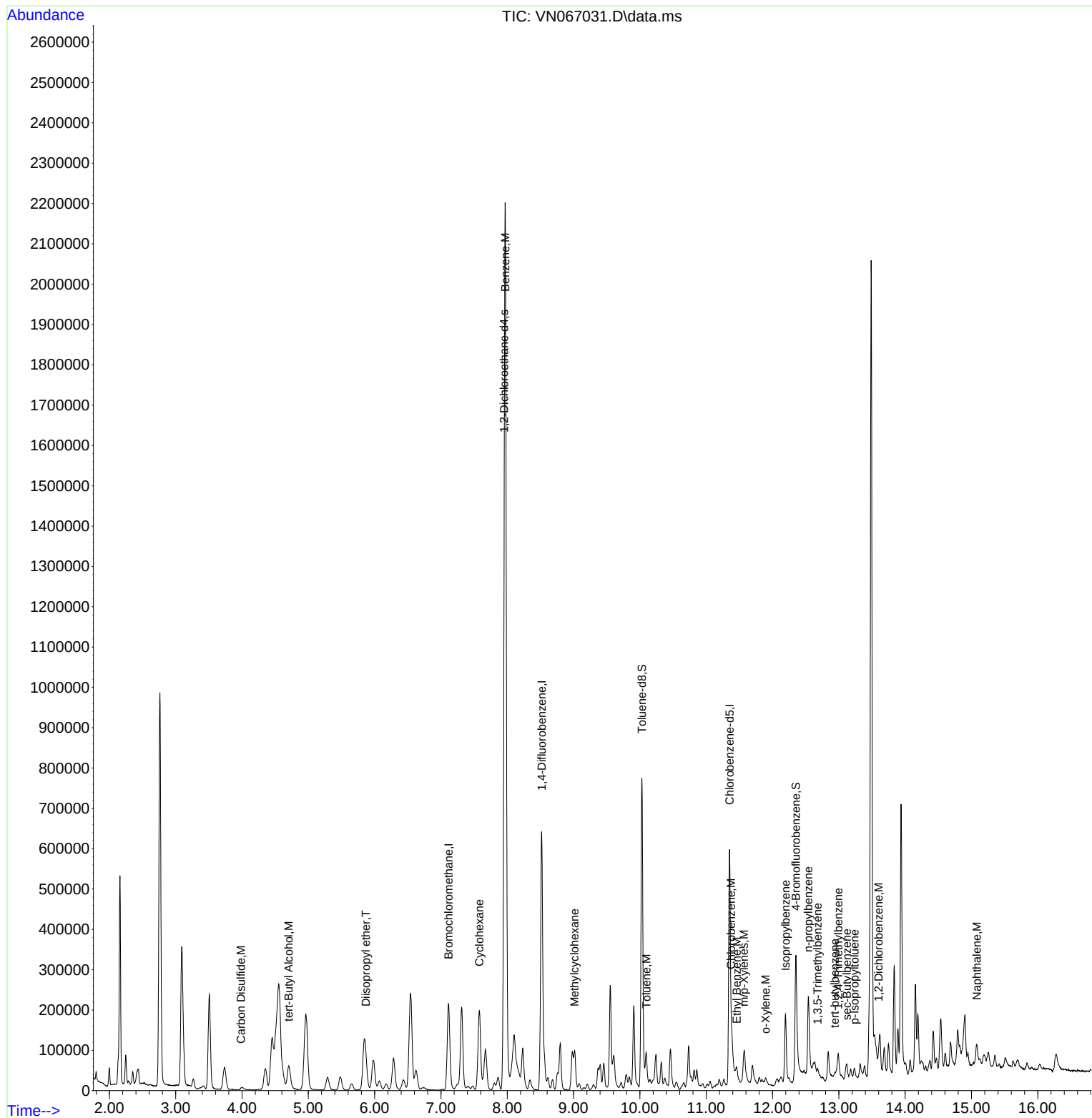
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
Data File : VN067031.D
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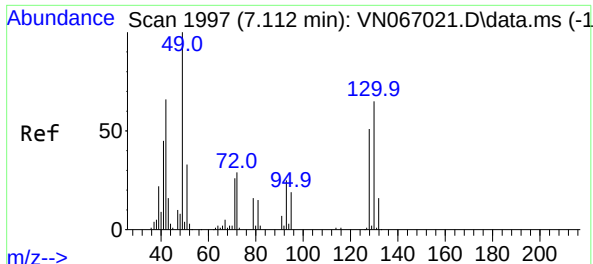
Instrument :
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Quant Time: May 07 07:31:43 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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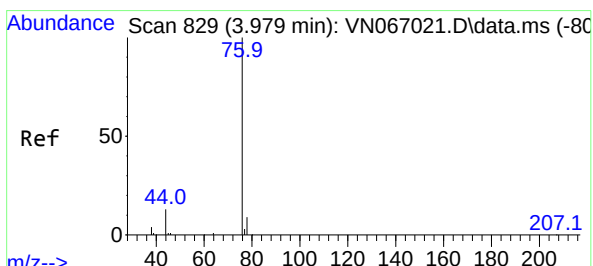
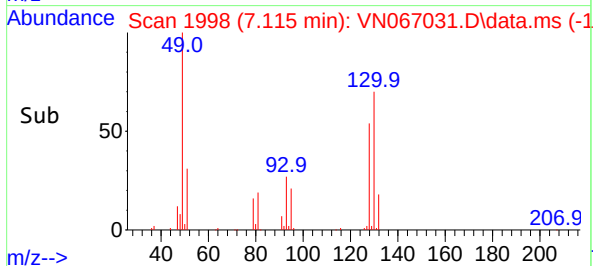
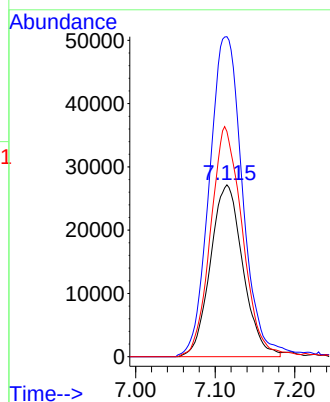
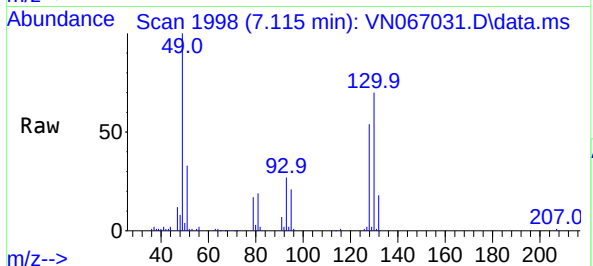
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.115 min Scan# 1998
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion:128 Resp: 77076
Ion Ratio Lower Upper
128 100
49 190.8 0.0 486.3
130 131.4 0.0 326.0

Instrument :
MSVOA_N
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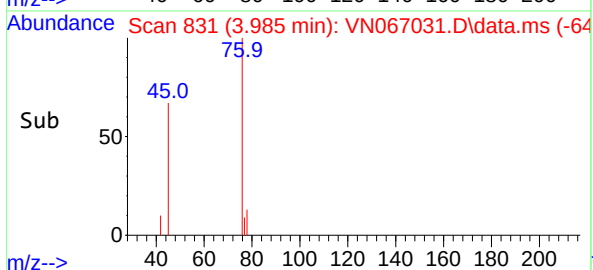
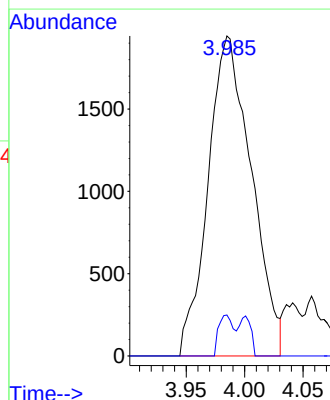
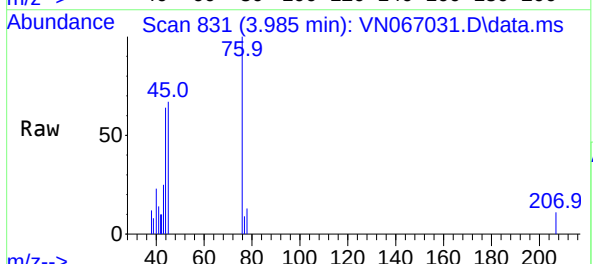
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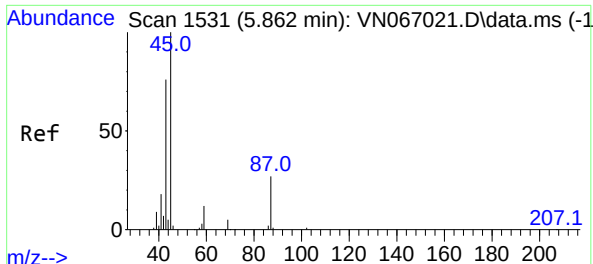
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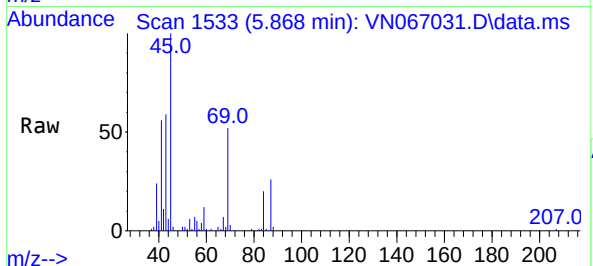
#16
Carbon Disulfide
Concen: 0.35 ug/l
RT: 3.985 min Scan# 831
Delta R.T. 0.005 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion: 76 Resp: 5017
Ion Ratio Lower Upper
76 100
78 12.8 7.5 11.3#

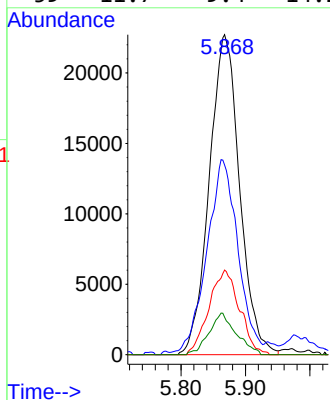




#20
Diisopropyl ether
Concen: 4.70 ug/l
RT: 5.868 min Scan# 1533
Delta R.T. 0.005 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47



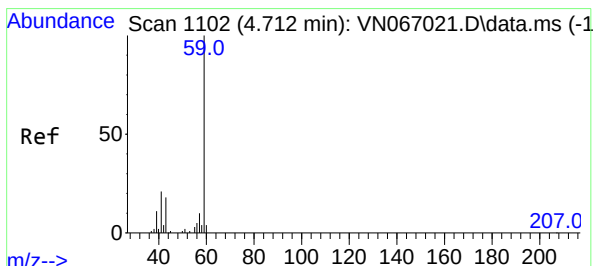
Tgt Ion:	45	Resp:	74320
Ion	Ratio	Lower	Upper
45	100		
43	58.0	64.3	96.5#
87	26.4	22.0	33.0
59	11.7	9.4	14.2



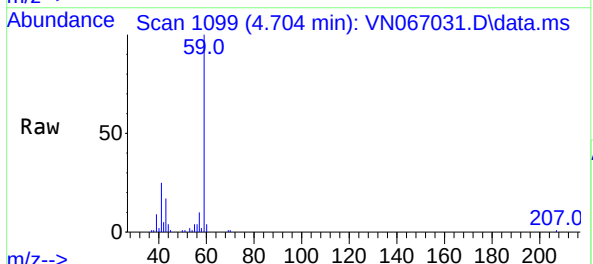
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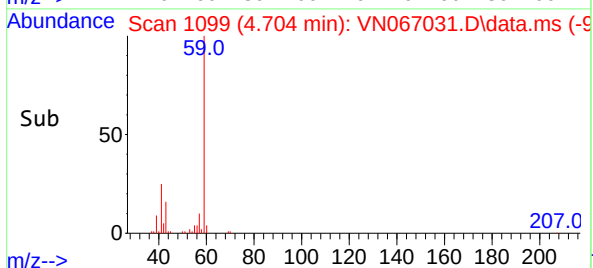
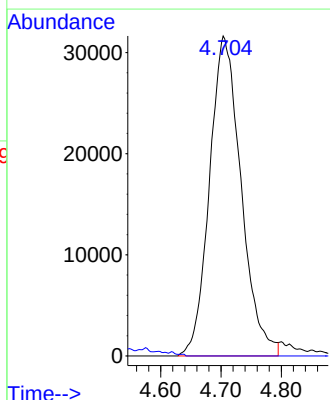
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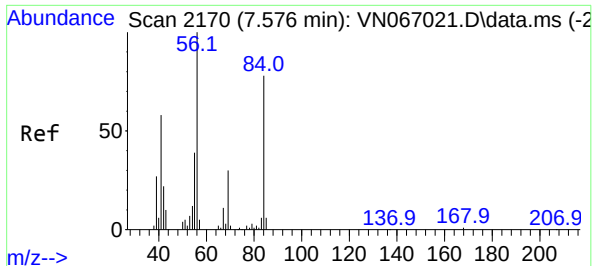


#23
tert-Butyl Alcohol
Concen: 117.13 ug/l
RT: 4.704 min Scan# 1099
Delta R.T. -0.008 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47



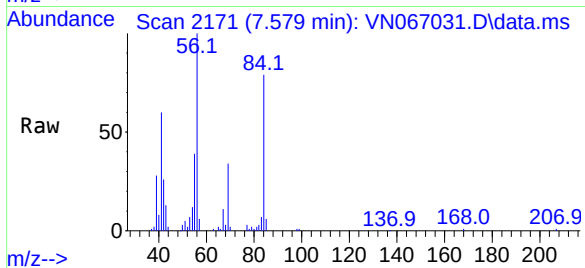
Tgt Ion:	59	Resp:	115033
Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0#





#26
Cyclohexane
Concen: 15.58 ug/l
RT: 7.579 min Scan# 2171
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

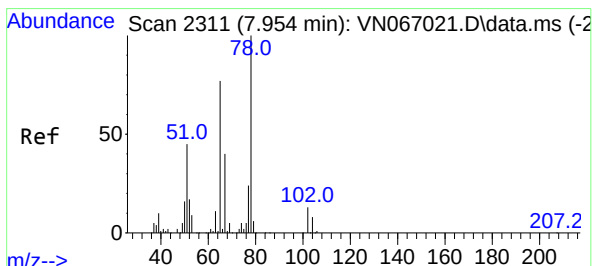
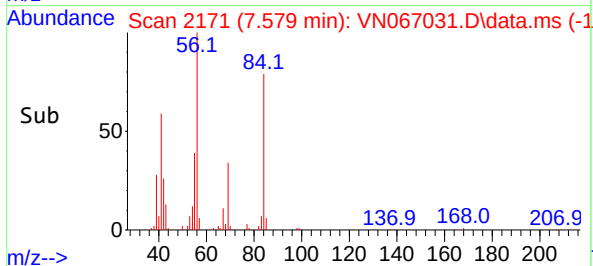
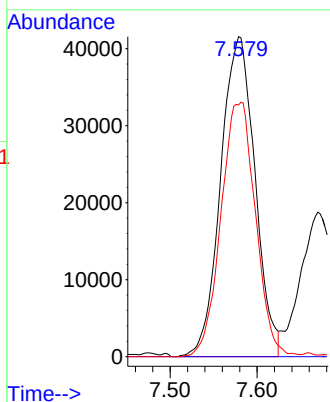
Instrument :
MSVOA_N
ClientSampleId :
MW-05



Tgt Ion: 56 Resp: 113877
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 42.6 64.2 96.2#

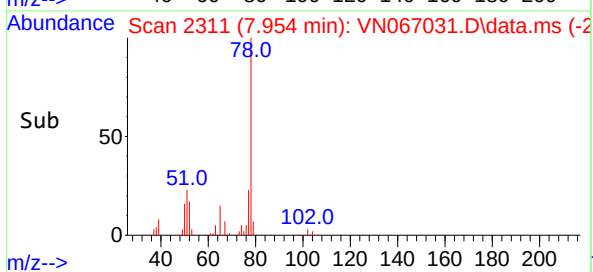
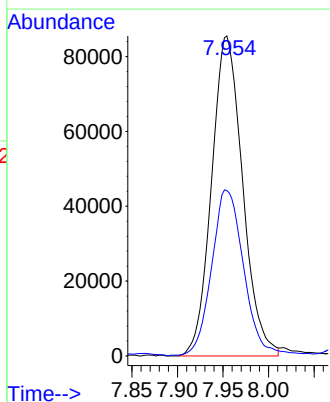
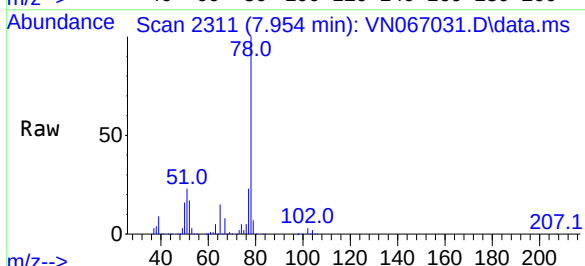
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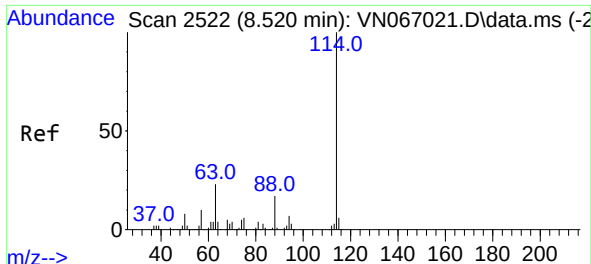
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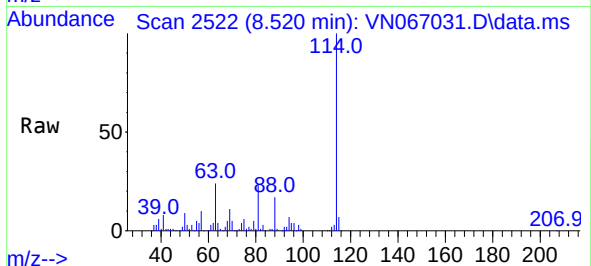
#27
1,2-Dichloroethane-d4
Concen: 30.02 ug/l
RT: 7.954 min Scan# 2311
Delta R.T. 0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion: 65 Resp: 202775
Ion Ratio Lower Upper
65 100
67 52.7 41.6 62.4



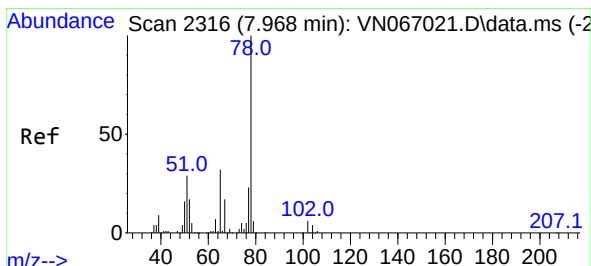
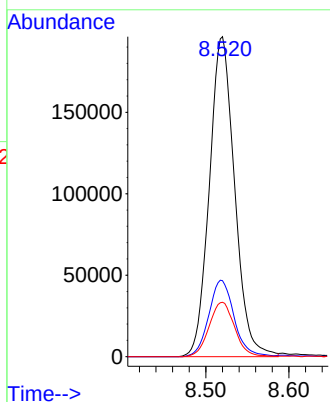
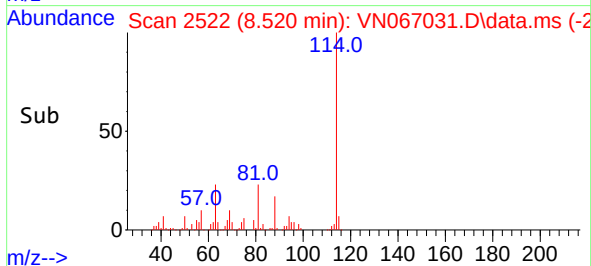


#28
1,4-Difluorobenzene
Concen: 30.00 ug/l
RT: 8.520 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

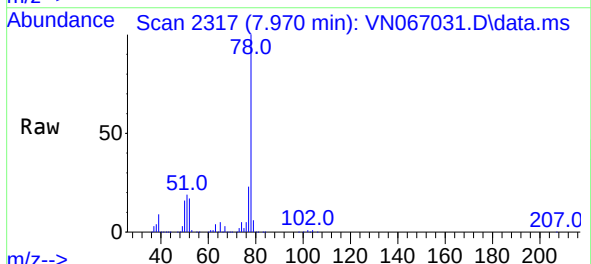


Tgt Ion: 114 Resp: 415173

Ion	Ratio	Lower	Upper
114	100		
63	24.0	18.8	28.2
88	17.2	13.8	20.6

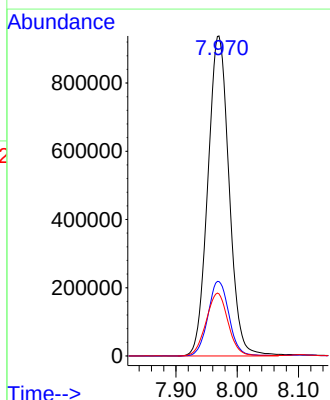
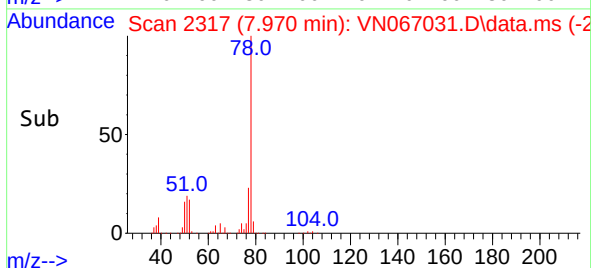


#34
Benzene
Concen: 95.84 ug/l
RT: 7.970 min Scan# 2317
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47



Tgt Ion: 78 Resp: 2256088

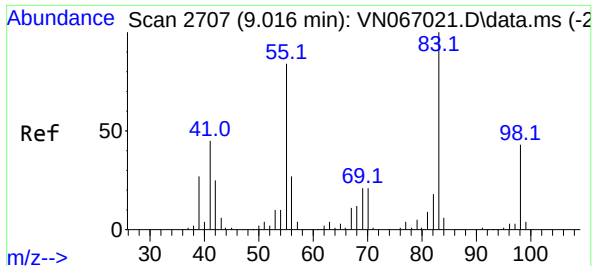
Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.6	27.8
51	19.4	23.4	35.0#



Instrument :
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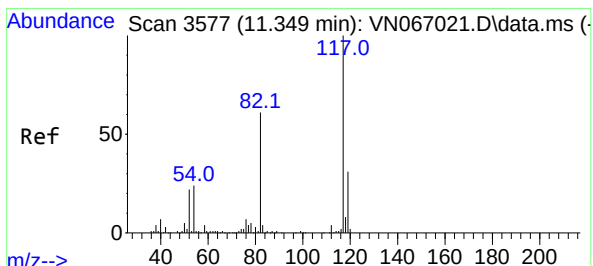
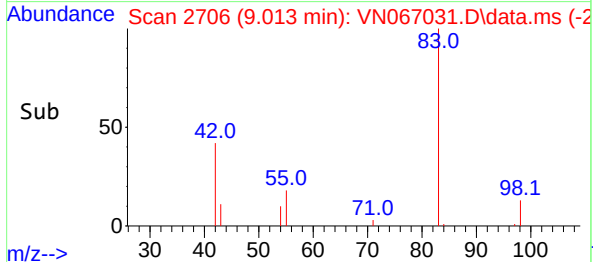
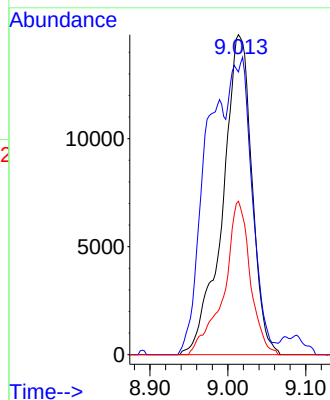
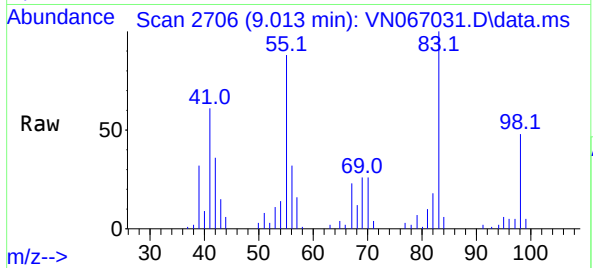
#38
Methylcyclohexane
Concen: 5.38 ug/l
RT: 9.013 min Scan# 2706
Delta R.T. -0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion: 83 Resp: 38895
Ion Ratio Lower Upper
83 100
55 66.5 43.1 129.3
98 43.1 22.0 66.0

Instrument :
MSVOA_N
ClientSampleId :
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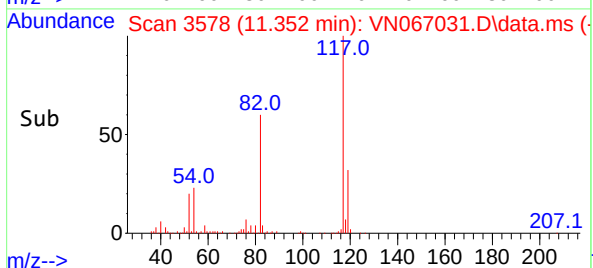
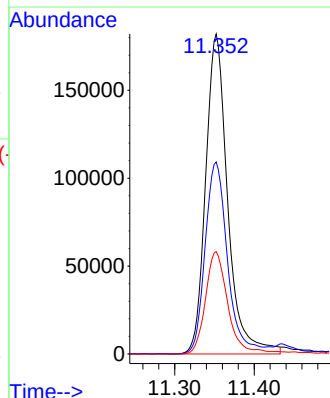
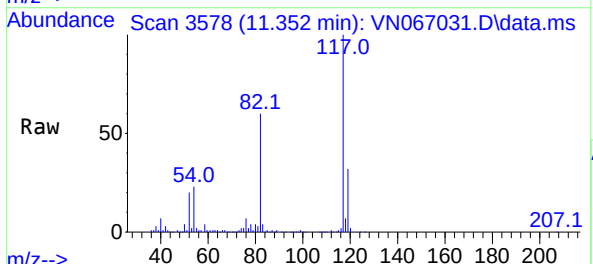
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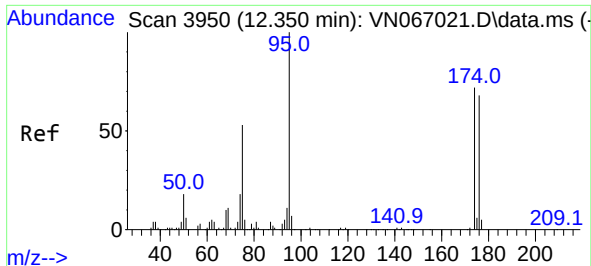
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#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.352 min Scan# 3578
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

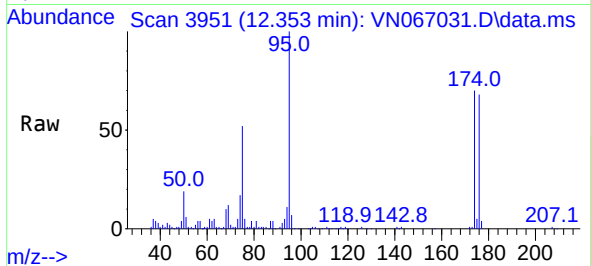
Tgt Ion: 117 Resp: 350951
Ion Ratio Lower Upper
117 100
82 60.9 49.3 73.9
119 31.6 25.5 38.3





#60
4-Bromofluorobenzene
Concen: 29.01 ug/l m
RT: 12.353 min Scan# 3951
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

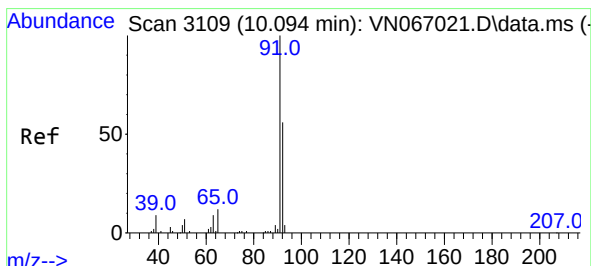
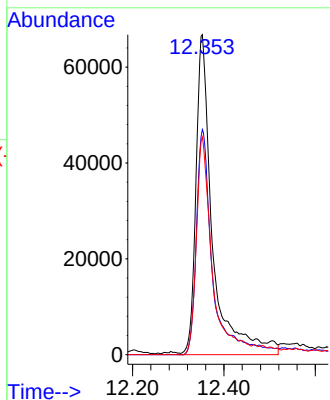
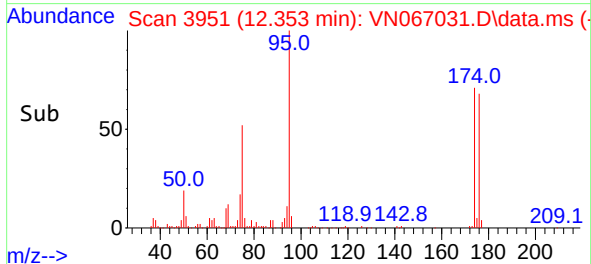
Instrument :
MSVOA_N
ClientSampled :
MW-05



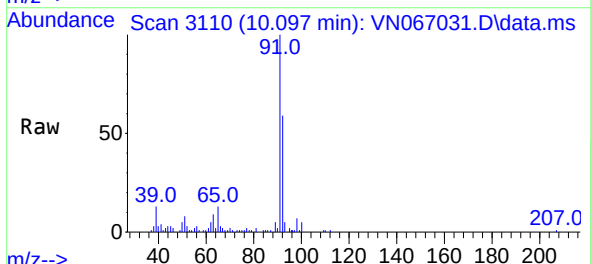
Tgt Ion: 95 Resp: 169362
Ion Ratio Lower Upper
95 100
174 60.8 57.2 85.8
176 58.7 54.5 81.7

Manual Integrations
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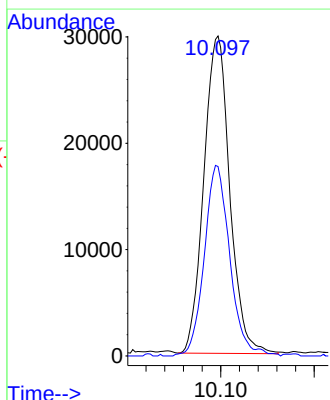
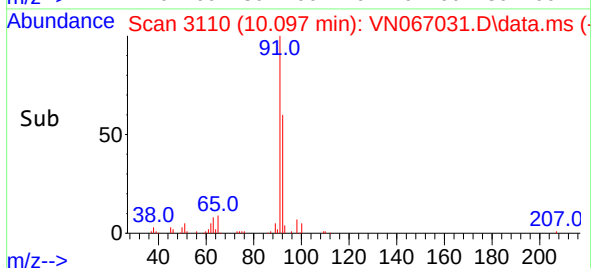
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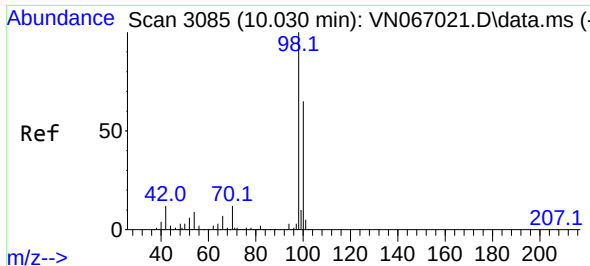


#62
Toluene
Concen: 2.66 ug/l
RT: 10.097 min Scan# 3110
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47



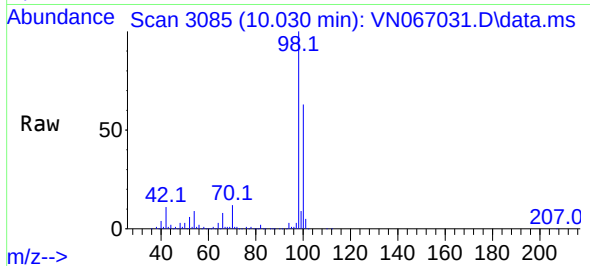
Tgt Ion: 91 Resp: 57625
Ion Ratio Lower Upper
91 100
92 58.2 46.2 69.2





#63
Toluene-d8
Concen: 30.98 ug/l
RT: 10.030 min Scan# 3085
Delta R.T. -0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

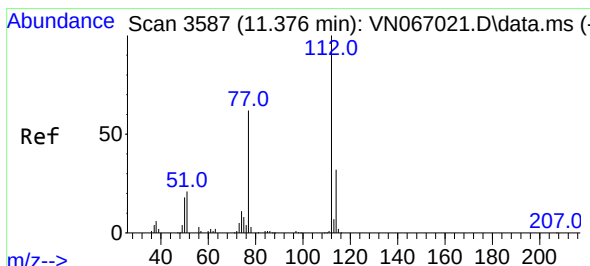
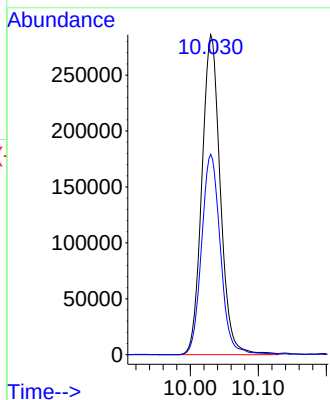
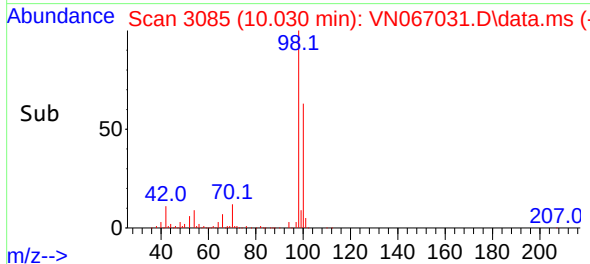
Instrument :
MSVOA_N
ClientSampleId :
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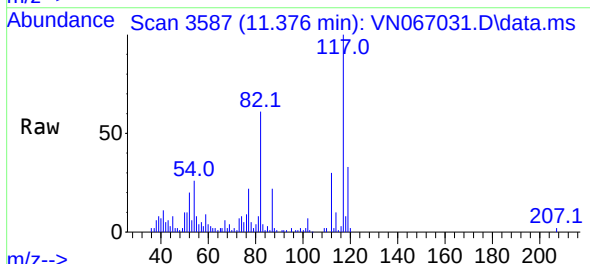
Tgt Ion: 98 Resp: 538595
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7

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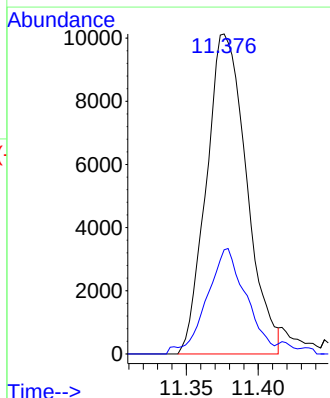
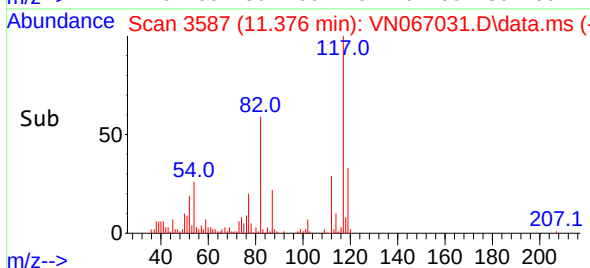
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5/7/2021 6:23:51 PM

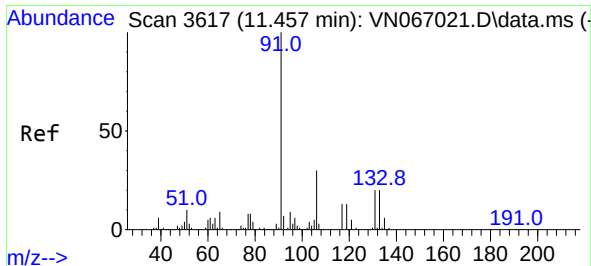


#64
Chlorobenzene
Concen: 1.56 ug/l
RT: 11.376 min Scan# 3587
Delta R.T. 0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47



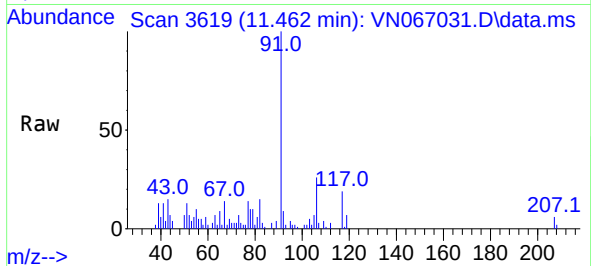
Tgt Ion: 112 Resp: 19664
Ion Ratio Lower Upper
112 100
114 30.6 25.2 37.8





#66
Ethyl Benzene
Concen: 0.92 ug/l
RT: 11.462 min Scan# 3619
Delta R.T. 0.005 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

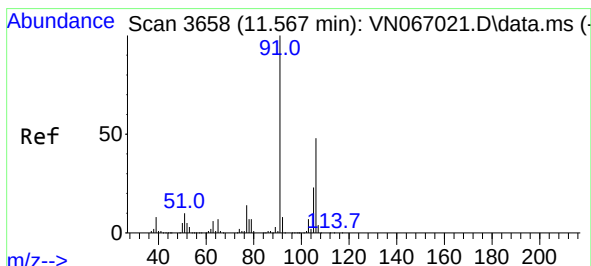
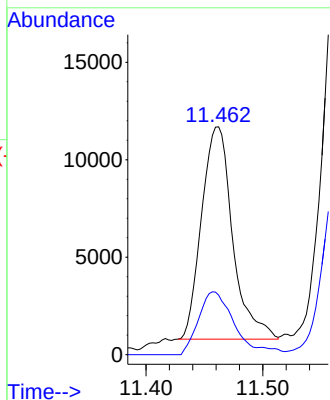
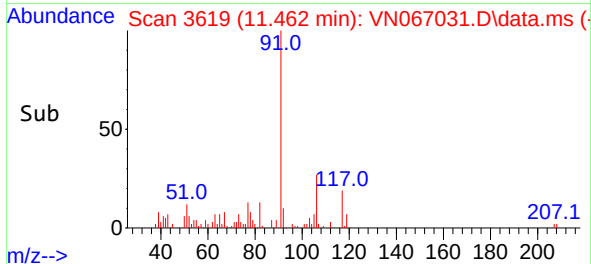
Instrument :
MSVOA_N
ClientSampleId :
MW-05



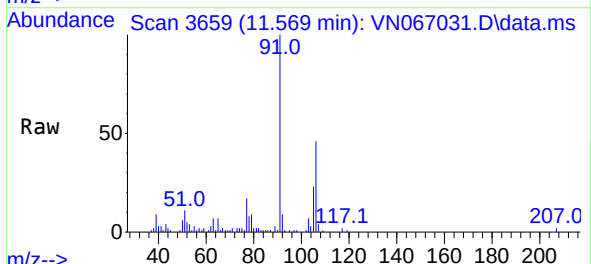
Tgt Ion: 91 Resp: 20214
Ion Ratio Lower Upper
91 100
106 28.0 24.1 36.1

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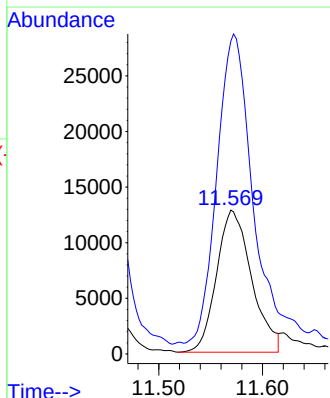
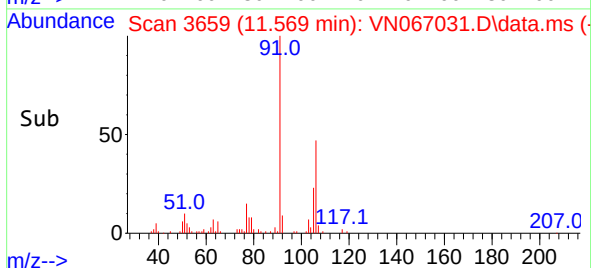
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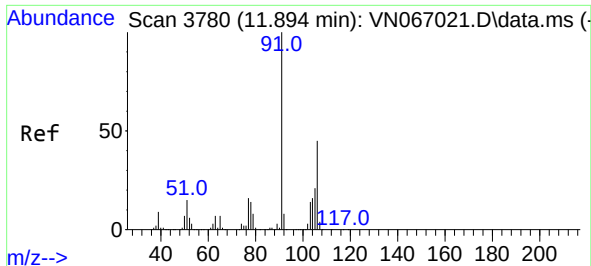


#67
m/p-Xylenes
Concen: 3.64 ug/l
RT: 11.569 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47



Tgt Ion: 106 Resp: 30001
Ion Ratio Lower Upper
106 100
91 224.5 173.2 259.8





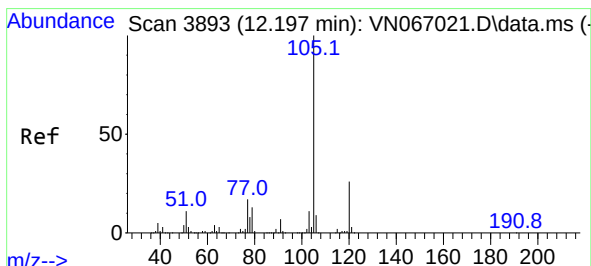
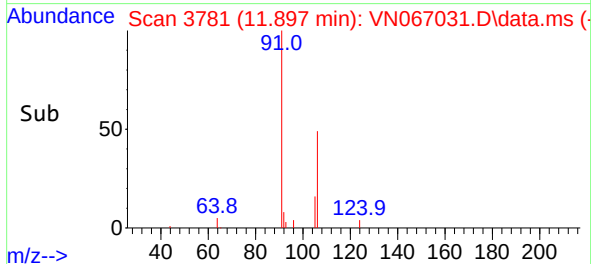
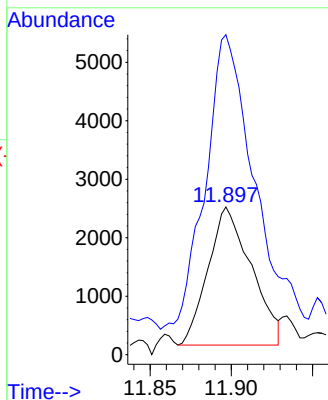
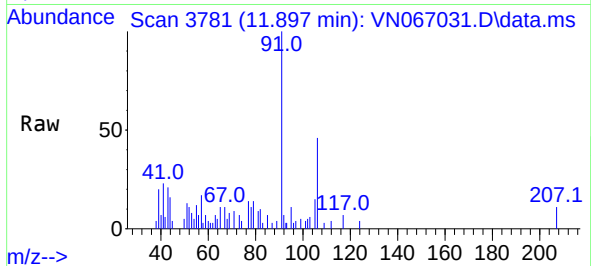
#68
o-Xylene
Concen: 0.54 ug/l
RT: 11.897 min Scan# 3781
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion:106 Resp: 4366
Ion Ratio Lower Upper
106 100
91 241.0 113.3 339.9

Instrument :
MSVOA_N
ClientSampleId :
MW-05

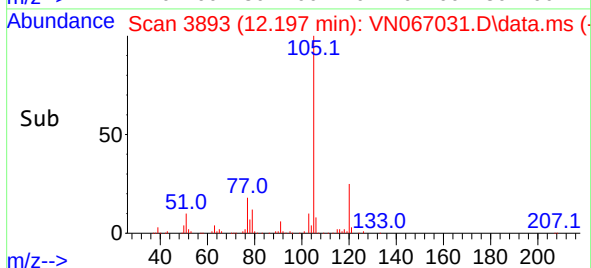
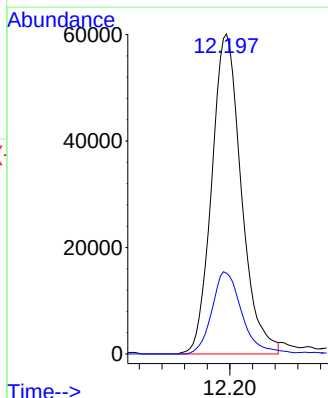
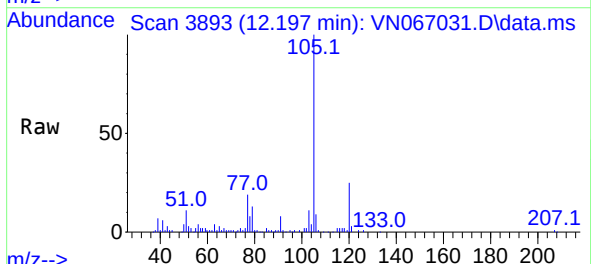
Manual Integrations
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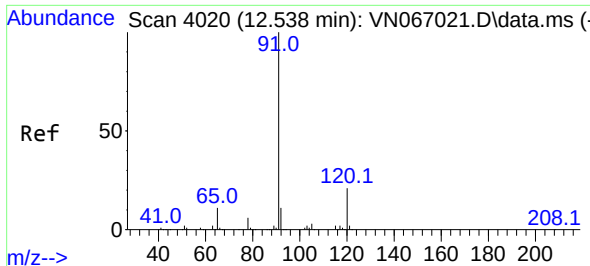
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#70
Isopropylbenzene
Concen: 5.16 ug/l
RT: 12.197 min Scan# 3893
Delta R.T. 0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

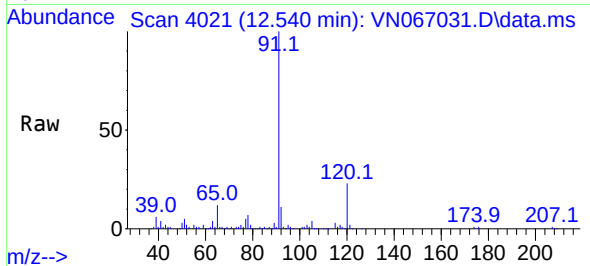
Tgt Ion:105 Resp: 109044
Ion Ratio Lower Upper
105 100
120 26.0 18.2 33.8





#74
n-propylbenzene
Concen: 8.25 ug/l
RT: 12.540 min Scan# 4021
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

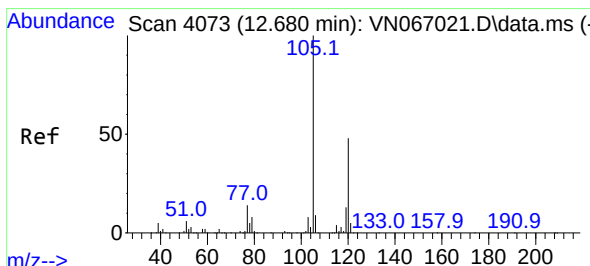
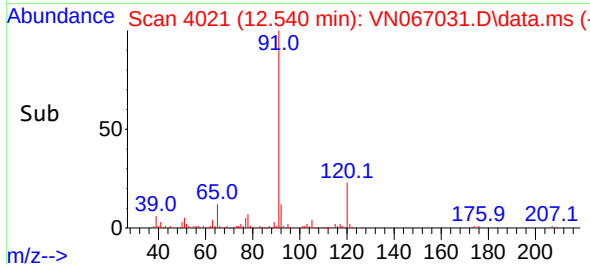
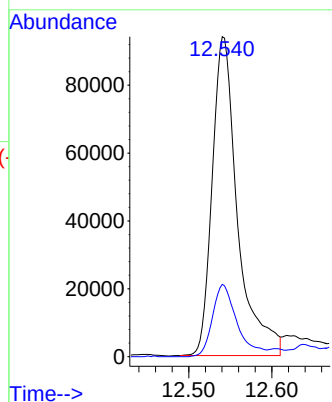
Instrument :
MSVOA_N
ClientSampleId :
MW-05



Tgt Ion: 91 Resp: 199686
Ion Ratio Lower Upper
91 100
120 22.0 0.0 43.6

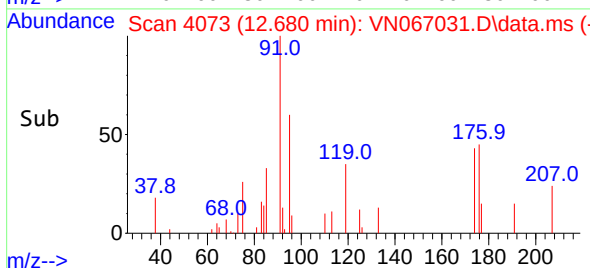
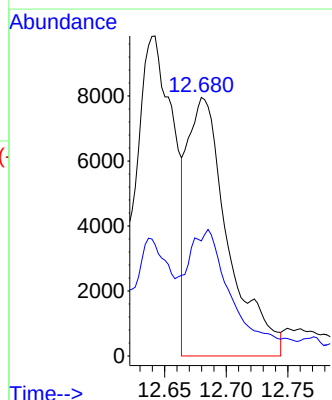
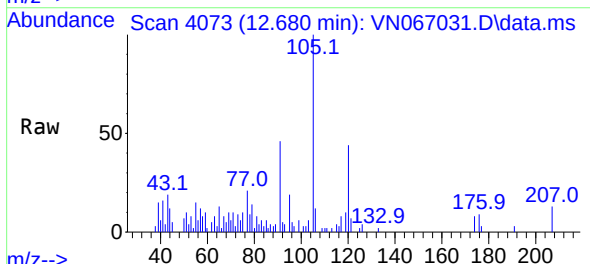
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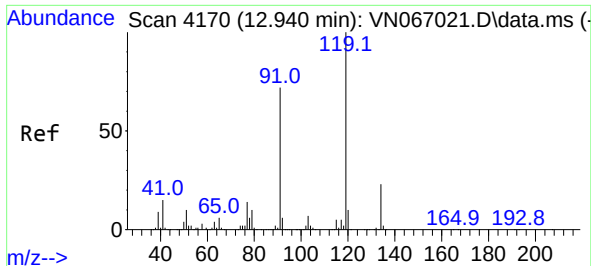
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#76
1,3,5-Trimethylbenzene
Concen: 0.98 ug/l m
RT: 12.680 min Scan# 4073
Delta R.T. -0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

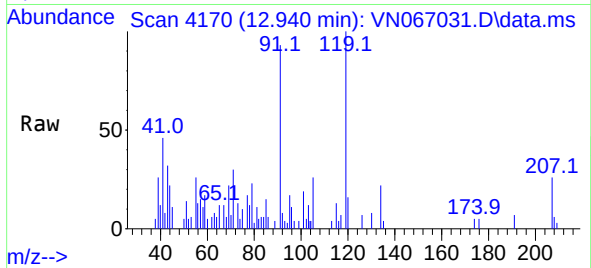
Tgt Ion: 105 Resp: 18347
Ion Ratio Lower Upper
105 100
120 9.5 0.0 93.4





#79
tert-butylbenzene
Concen: 0.52 ug/l
RT: 12.940 min Scan# 4170
Delta R.T. 0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

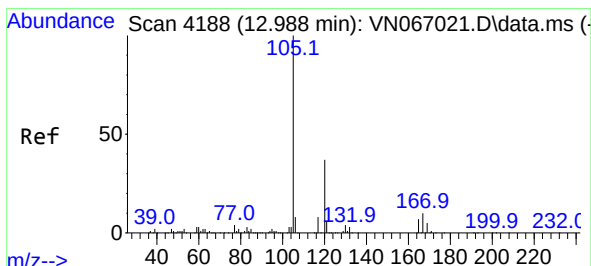
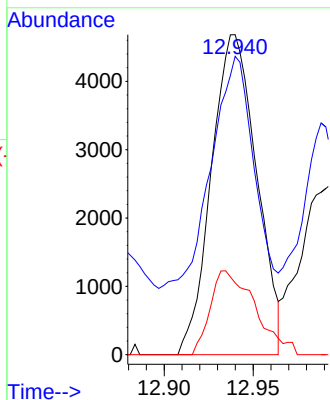
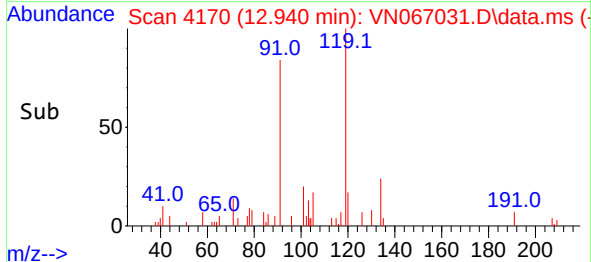
Instrument :
MSVOA_N
ClientSampled :
MW-05



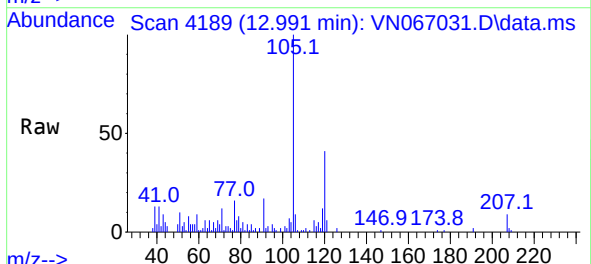
Tgt Ion:119 Resp: 8291
Ion Ratio Lower Upper
119 100
91 57.4 0.0 140.2
134 25.3 0.0 46.6

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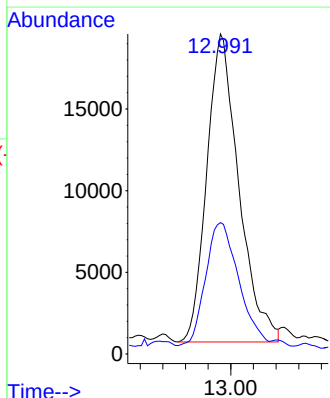
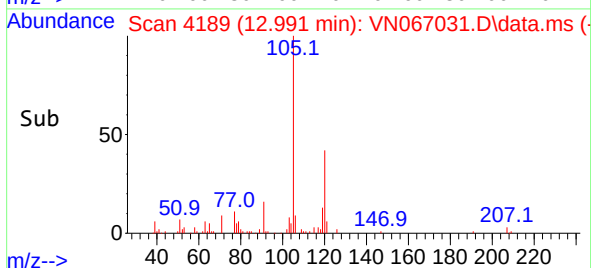
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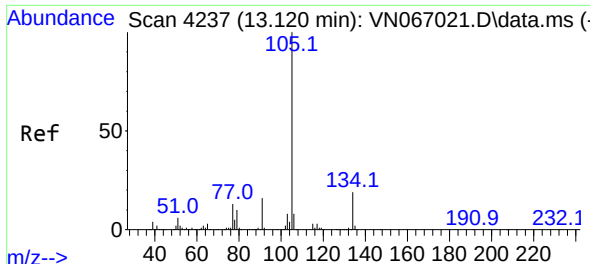


#80
1,2,4-Trimethylbenzene
Concen: 2.11 ug/l
RT: 12.991 min Scan# 4189
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47



Tgt Ion:105 Resp: 36975
Ion Ratio Lower Upper
105 100
120 41.1 0.0 88.8





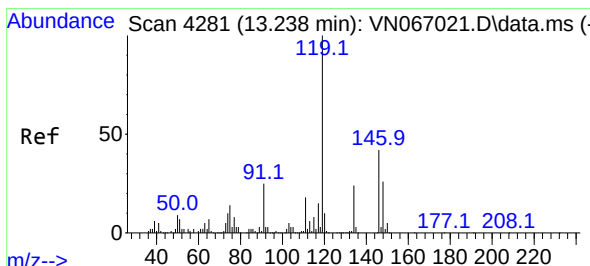
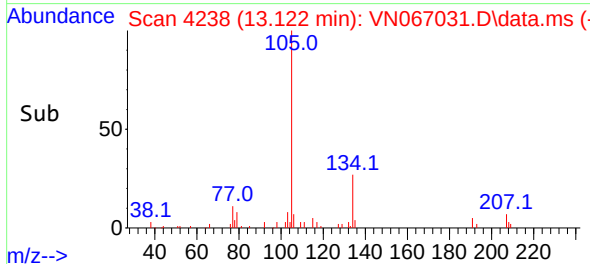
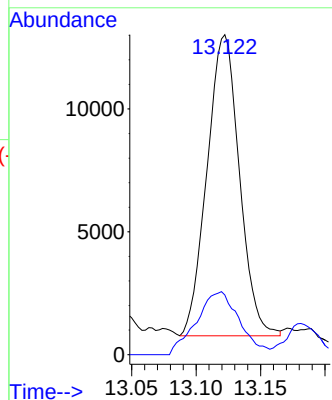
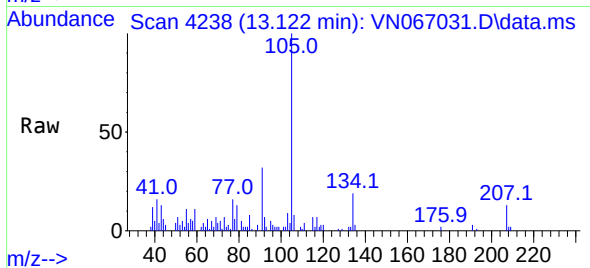
#81
sec-Butylbenzene
Concen: 1.02 ug/l
RT: 13.122 min Scan# 4238
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Instrument :
MSVOA_N
ClientSampleId :
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Tgt Ion:105 Resp: 21423
Ion Ratio Lower Upper
105 100
134 27.7 0.0 38.8

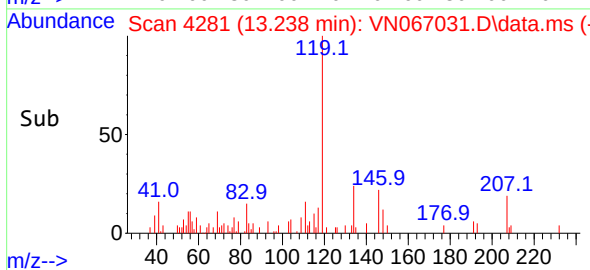
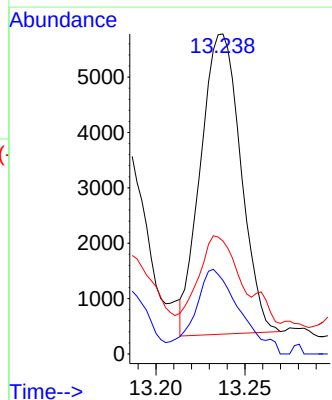
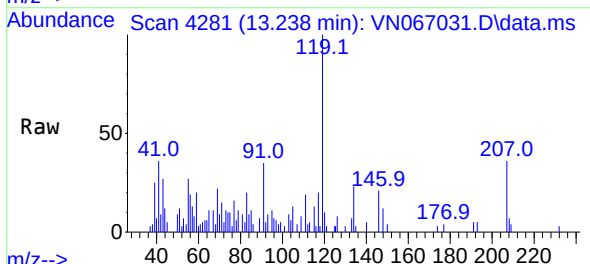
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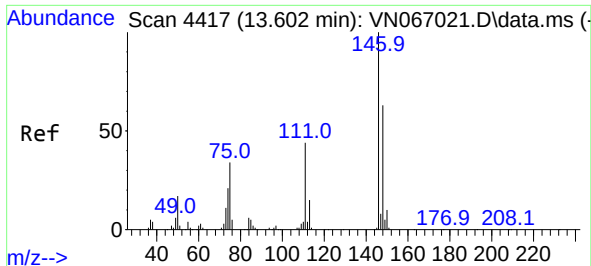
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#82
p-Isopropyltoluene
Concen: 0.51 ug/l
RT: 13.238 min Scan# 4281
Delta R.T. 0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion:119 Resp: 8516
Ion Ratio Lower Upper
119 100
134 30.8 0.0 49.8
91 23.7 0.0 49.6





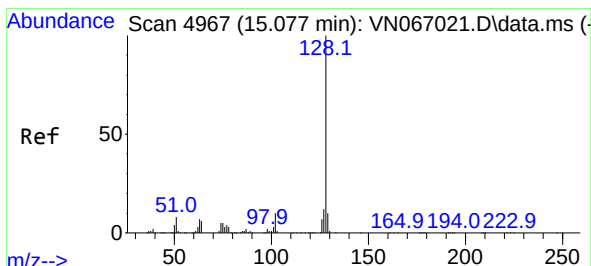
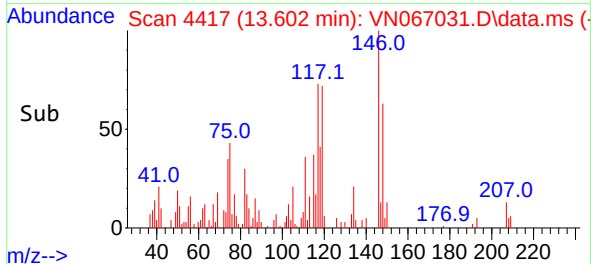
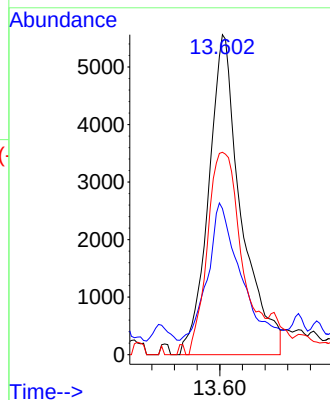
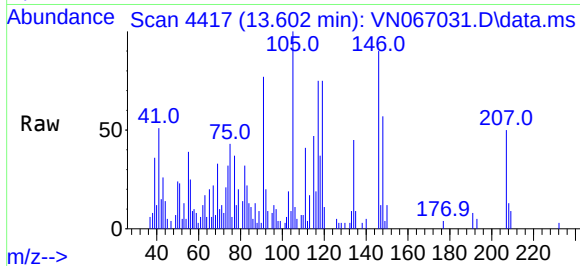
#87
1,2-Dichlorobenzene
Concen: 1.26 ug/l
RT: 13.602 min Scan# 4417
Delta R.T. 0.000 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion:	146	Resp:	11049
Ion Ratio	Lower	Upper	
146	100		
111	40.1	20.5	61.5
148	67.4	30.1	90.5

Instrument :
MSVOA_N
ClientSampleId :
MW-05

Manual Integrations
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#91
Naphthalene
Concen: 4.75 ug/l
RT: 15.080 min Scan# 4968
Delta R.T. 0.003 min
Lab File: VN067031.D
Acq: 7 May 2021 00:47

Tgt Ion:	128	Resp:	57732
Ion Ratio	Lower	Upper	
128	100		
127	9.9	9.8	14.6
129	4.1	7.8	11.8#

