

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111821\
 Data File : VN069554.D
 Acq On : 18 Nov 2021 15:43
 Operator : JC/MD
 Sample : M4739-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3R

Quant Time: Nov 19 03:18:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 09 18:18:22 2021
 Response via : Initial Calibration

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

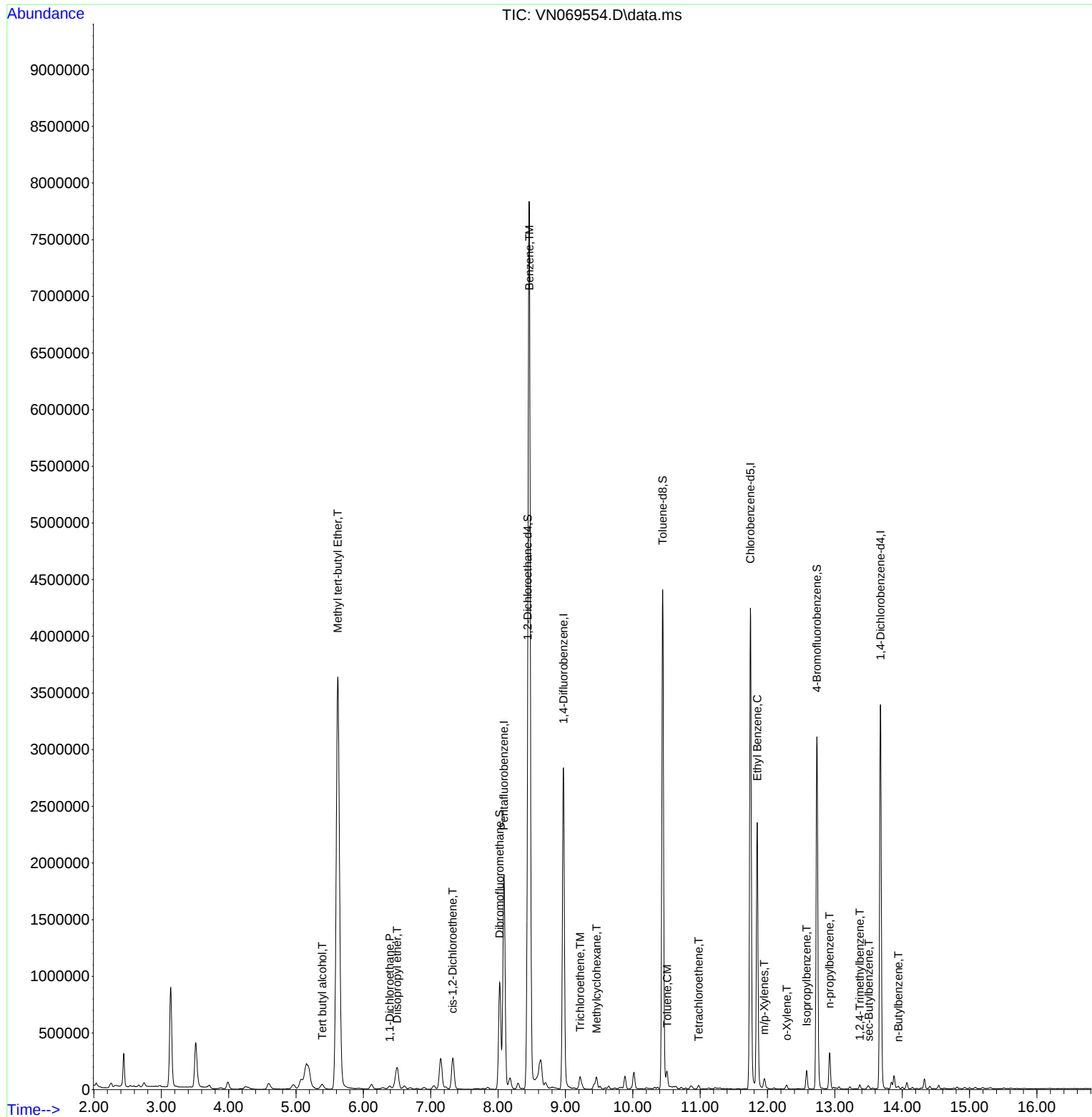
Internal Standards						
1) Pentafluorobenzene	8.088	168	1351569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	2373704	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2365360	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	905886	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1005436	51.305	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	102.620%
35) Dibromofluoromethane	8.024	113	685714	48.166	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.340%
50) Toluene-d8	10.443	98	3005455	53.677	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	107.360%
62) 4-Bromofluorobenzene	12.734	95	1081303	52.569	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	105.140%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.390	59	69084	19.563	ug/l	# 71
19) Methyl tert-butyl Ether	5.621	73	5410837	116.713	ug/l	91
22) Diisopropyl ether	6.501	45	230459	4.417	ug/l	91
24) 1,1-Dichloroethane	6.393	63	31141	1.172	ug/l	98
27) cis-1,2-Dichloroethene	7.327	96	152381	10.047	ug/l	98
39) Methylcyclohexane	9.464	83	37081	1.492	ug/l	90
40) Benzene	8.464	78	7515231	121.901	ug/l	99
44) Trichloroethene	9.217	130	34400	2.331	ug/l	95
52) Toluene	10.510	92	56206	1.463	ug/l	94
64) Tetrachloroethene	10.980	164	7049	0.494	ug/l	87
67) Ethyl Benzene	11.848	91	1702497	20.966	ug/l	96
68) m/p-Xylenes	11.950	106	28043	0.939	ug/l	85
69) o-Xylene	12.286	106	8994	0.302	ug/l	89
73) Isopropylbenzene	12.581	105	105371	1.461	ug/l	96
78) n-propylbenzene	12.921	91	259078	3.192	ug/l	95
84) 1,2,4-Trimethylbenzene	13.369	105	20539	0.365	ug/l	97
85) sec-Butylbenzene	13.503	105	16304	0.228	ug/l	# 77
89) n-Butylbenzene	13.943	91	13282	0.281	ug/l	# 77

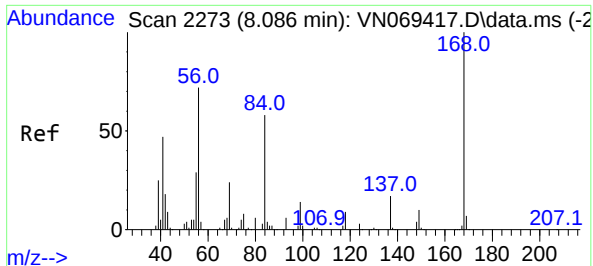
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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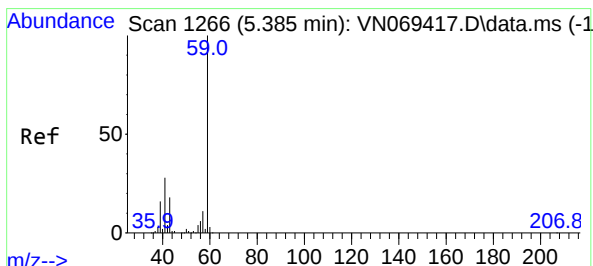
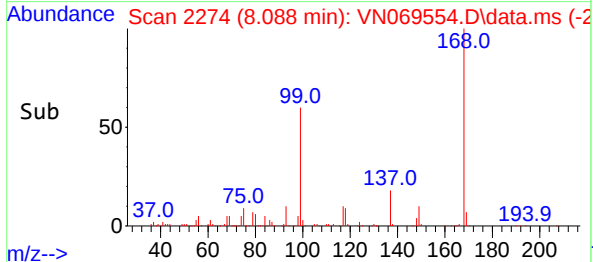
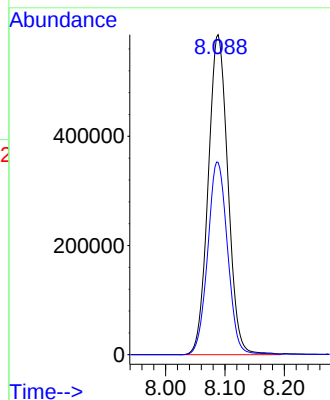
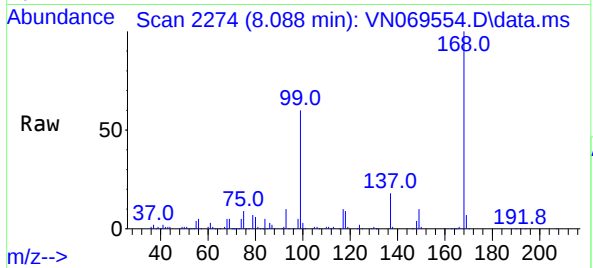




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

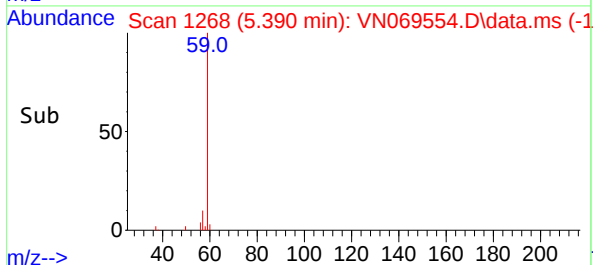
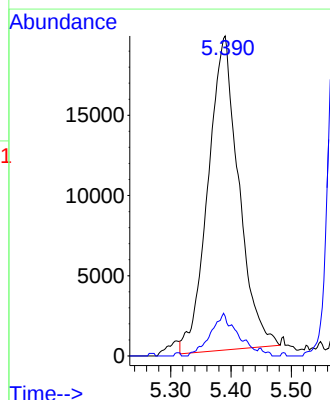
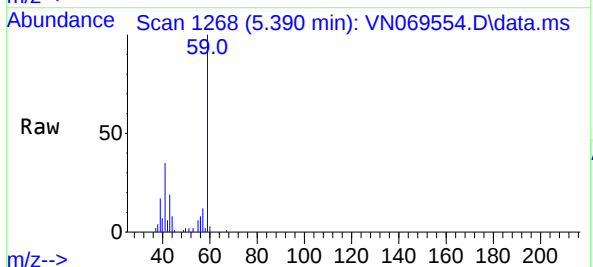
Instrument :
MSVOA_N
ClientSampleId :
MW-3R

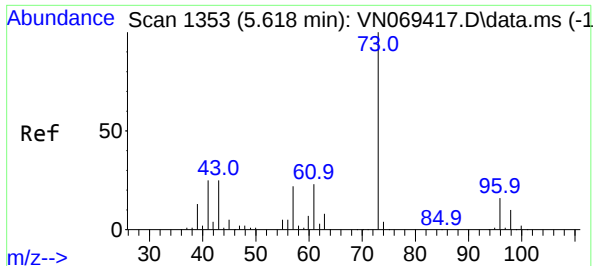
Tgt Ion:168 Resp: 1351569
Ion Ratio Lower Upper
168 100
99 60.1 41.3 61.9



#11
Tert butyl alcohol
Concen: 19.563 ug/l
RT: 5.390 min Scan# 1268
Delta R.T. 0.005 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion: 59 Resp: 69084
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#19

Methyl tert-butyl Ether

Concen: 116.713 ug/l

RT: 5.621 min Scan# 11

Delta R.T. 0.003 min

Lab File: VN069554.D

Acq: 18 Nov 2021 15:43

Instrument :

MSVOA_N

ClientSampleId :

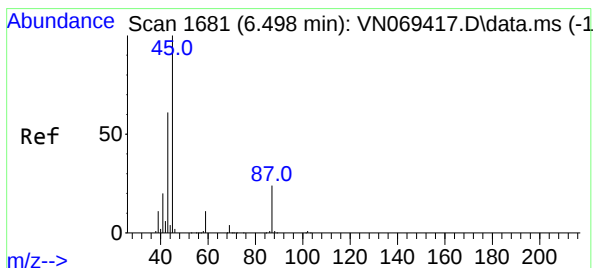
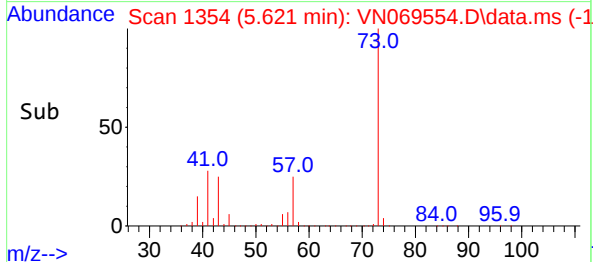
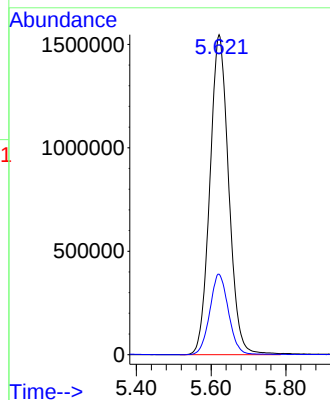
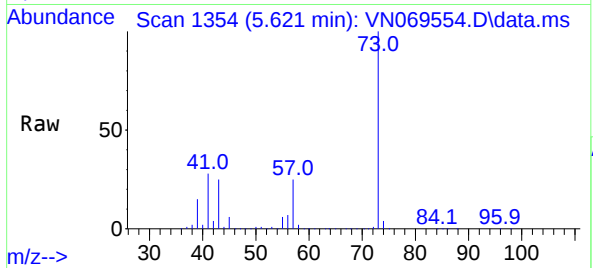
MW-3R

Tgt Ion: 73 Resp: 5410837

Ion Ratio Lower Upper

73 100

57 25.1 16.8 25.2



#22

Diisopropyl ether

Concen: 4.417 ug/l

RT: 6.501 min Scan# 1682

Delta R.T. 0.003 min

Lab File: VN069554.D

Acq: 18 Nov 2021 15:43

Tgt Ion: 45 Resp: 230459

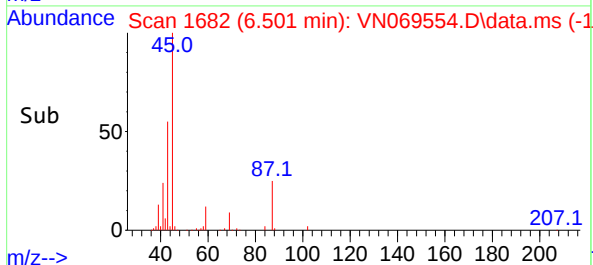
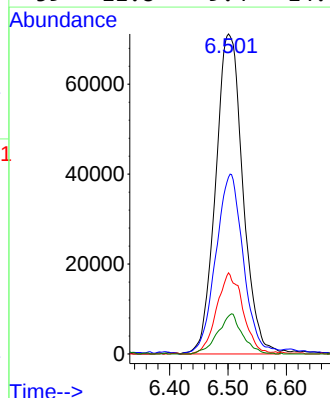
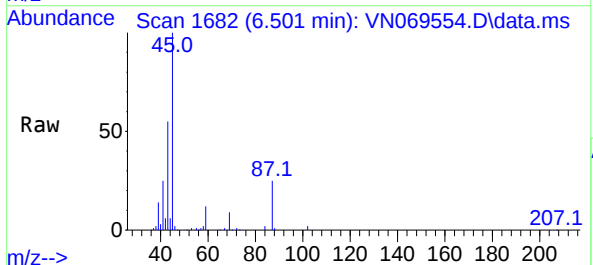
Ion Ratio Lower Upper

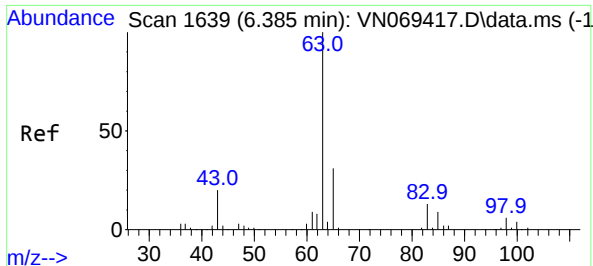
45 100

43 55.2 51.7 77.5

87 25.3 23.2 34.8

59 11.8 9.4 14.0

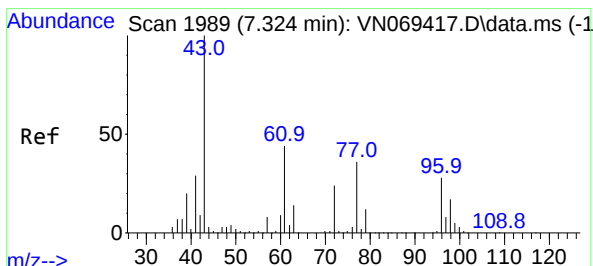
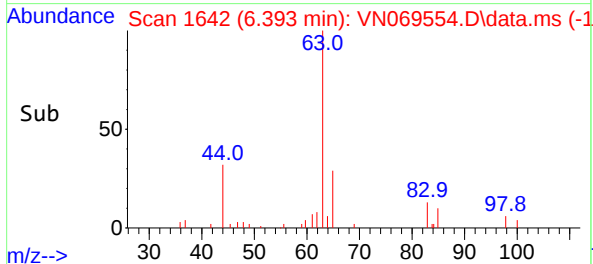
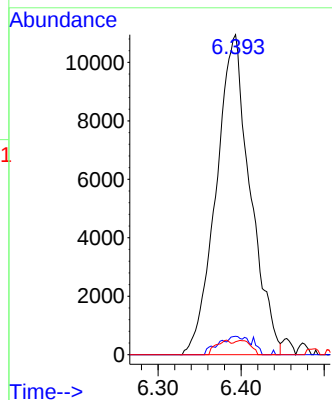
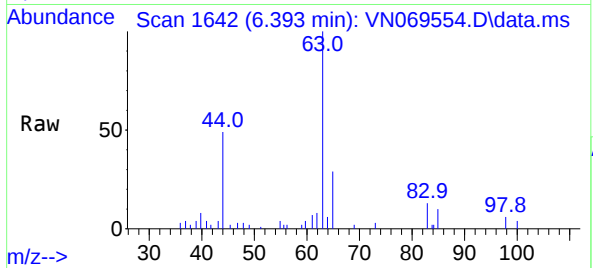




#24
1,1-Dichloroethane
Concen: 1.172 ug/l
RT: 6.393 min Scan# 1
Delta R.T. 0.008 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

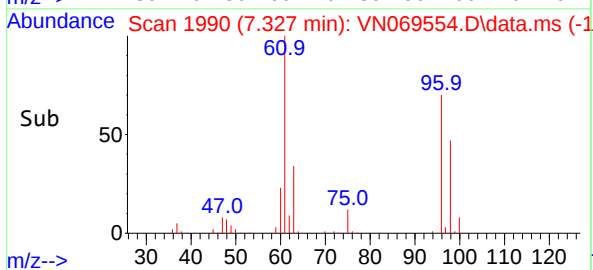
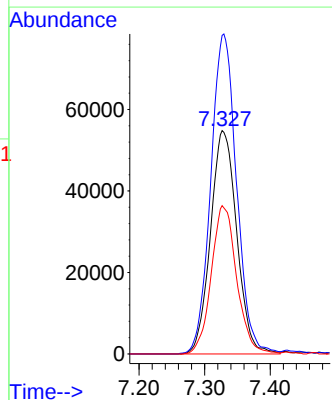
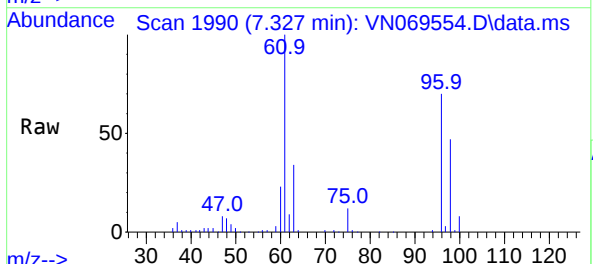
Instrument :
MSVOA_N
ClientSampleId :
MW-3R

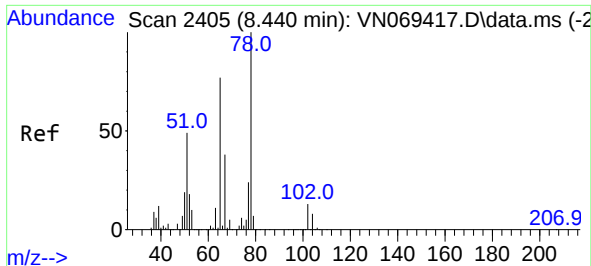
Tgt Ion:	63	Resp:	31141
Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.3	9.9
100	4.0	2.1	6.5



#27
cis-1,2-Dichloroethene
Concen: 10.047 ug/l
RT: 7.327 min Scan# 1990
Delta R.T. 0.003 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion:	96	Resp:	152381
Ion	Ratio	Lower	Upper
96	100		
61	141.0	0.0	275.0
98	64.2	0.0	129.6





#33

1,2-Dichloroethane-d4

Concen: 51.305 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN069554.D

Acq: 18 Nov 2021 15:43

Instrument :

MSVOA_N

ClientSampleId :

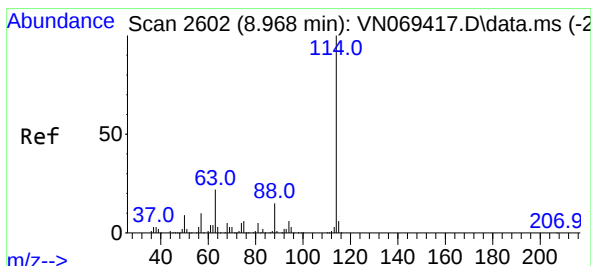
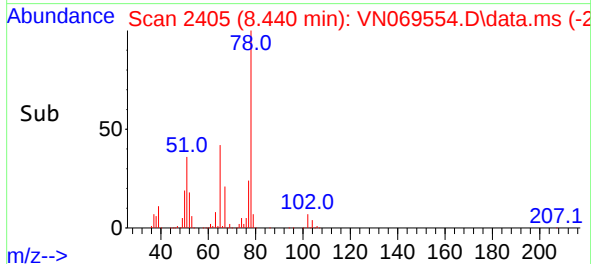
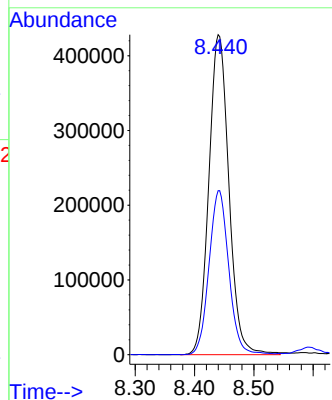
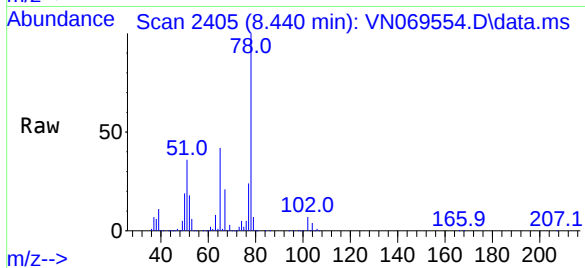
MW-3R

Tgt Ion: 65 Resp: 1005436

Ion Ratio Lower Upper

65 100

67 50.5 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN069554.D

Acq: 18 Nov 2021 15:43

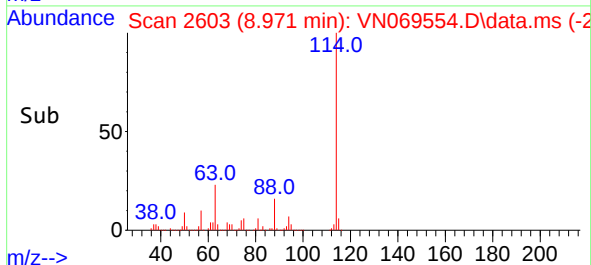
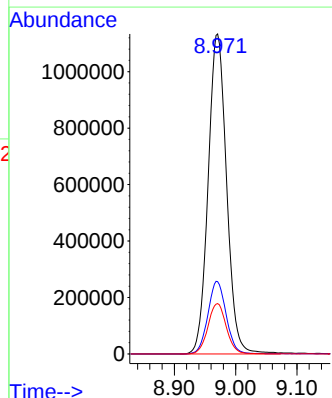
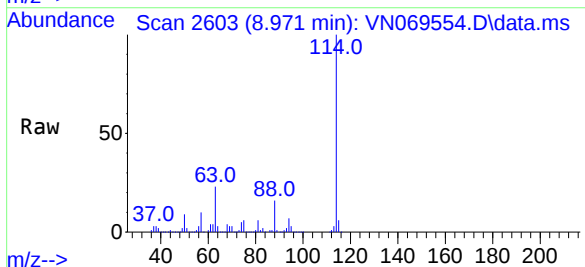
Tgt Ion: 114 Resp: 2373704

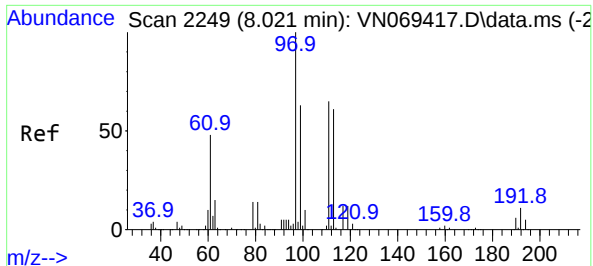
Ion Ratio Lower Upper

114 100

63 22.6 0.0 37.8

88 15.7 0.0 27.4

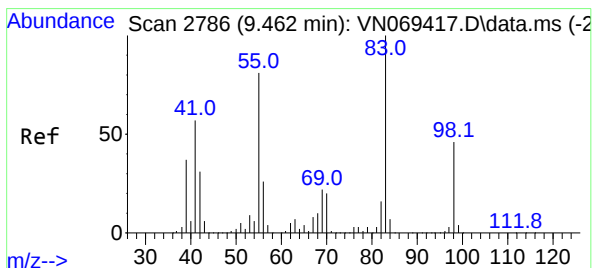
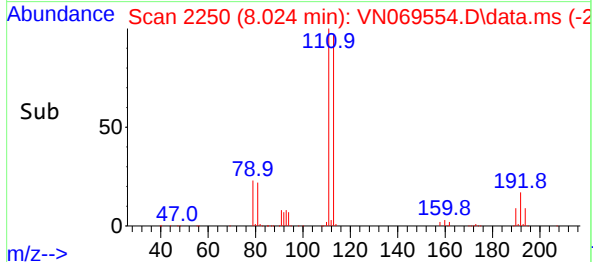
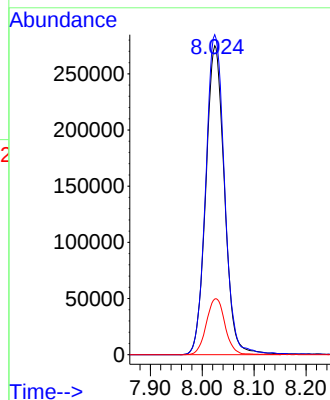
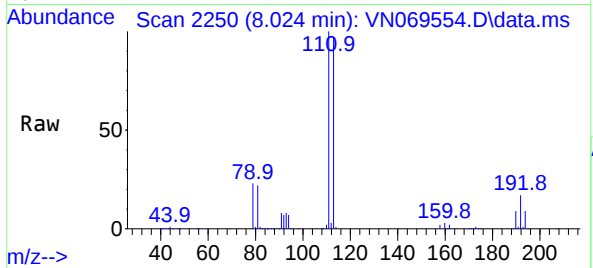




#35
Dibromofluoromethane
Concen: 48.166 ug/l
RT: 8.024 min Scan# 2113
Delta R.T. 0.003 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

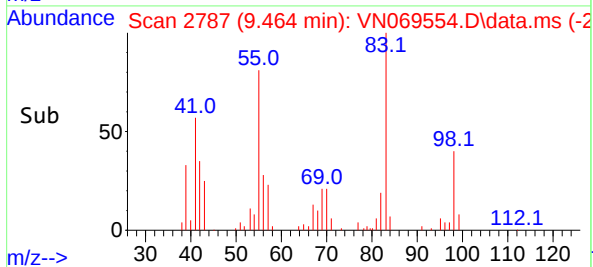
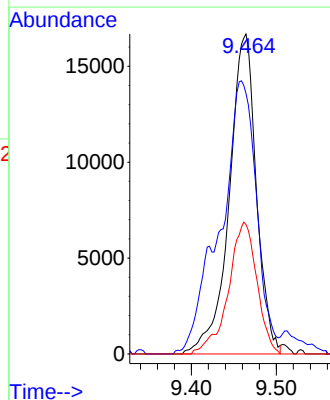
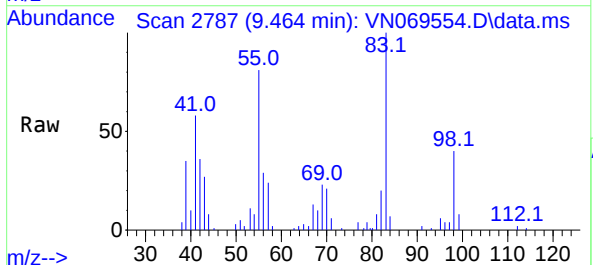
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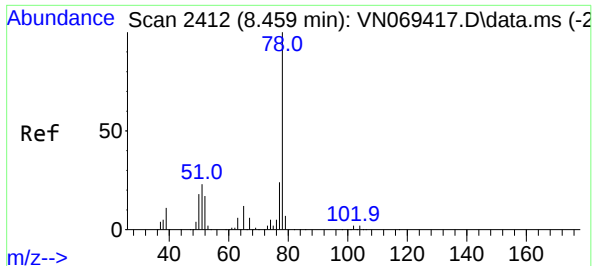
Tgt Ion:113 Resp: 685714
Ion Ratio Lower Upper
113 100
111 104.0 82.2 123.2
192 18.2 16.9 25.3



#39
Methylcyclohexane
Concen: 1.492 ug/l
RT: 9.464 min Scan# 2787
Delta R.T. 0.002 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion: 83 Resp: 37081
Ion Ratio Lower Upper
83 100
55 80.4 58.1 87.1
98 40.4 38.4 57.6

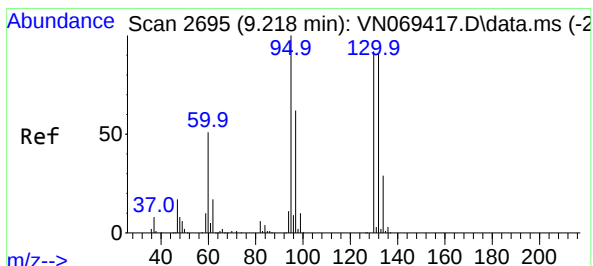
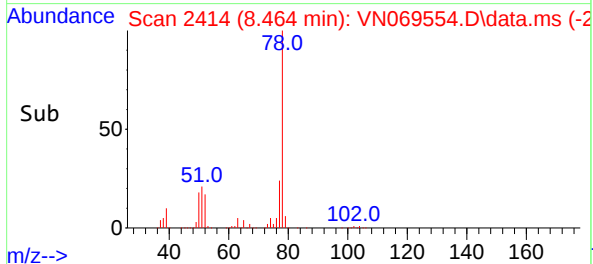
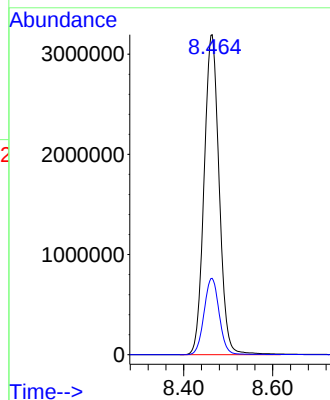
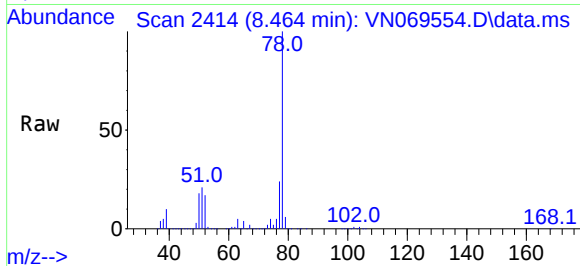




#40
Benzene
Concen: 121.901 ug/l
RT: 8.464 min Scan# 2412
Delta R.T. 0.005 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

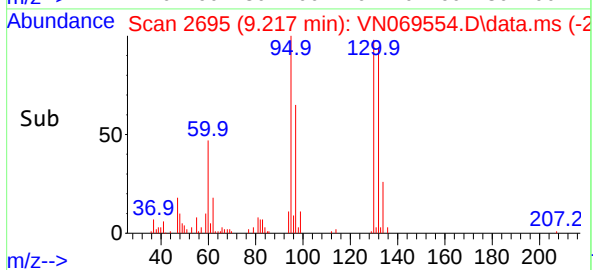
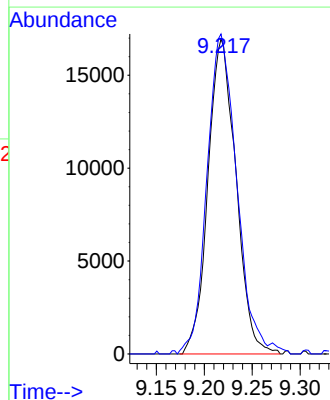
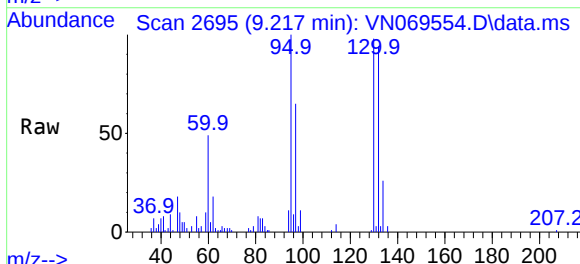
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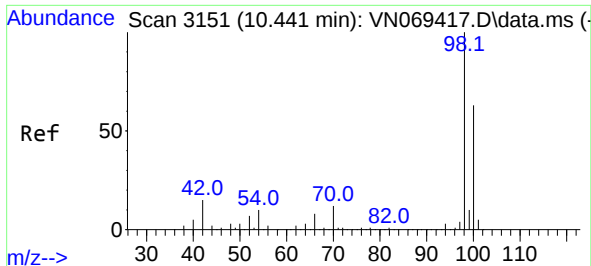
Tgt Ion: 78 Resp: 7515231
Ion Ratio Lower Upper
78 100
77 23.9 18.6 27.8



#44
Trichloroethene
Concen: 2.331 ug/l
RT: 9.217 min Scan# 2695
Delta R.T. -0.001 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion:130 Resp: 34400
Ion Ratio Lower Upper
130 100
95 100.6 0.0 191.2

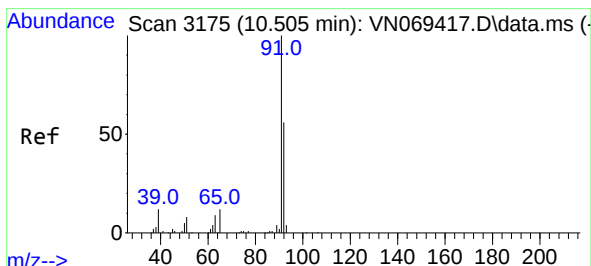
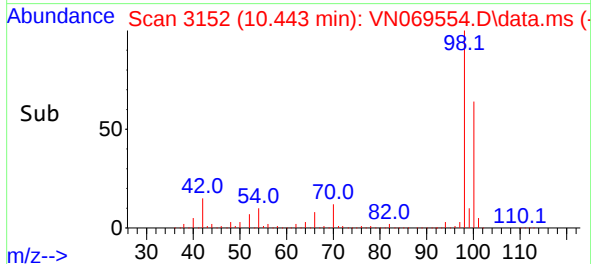
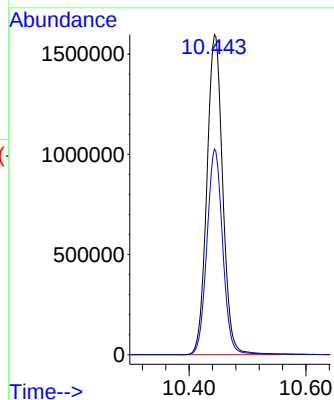
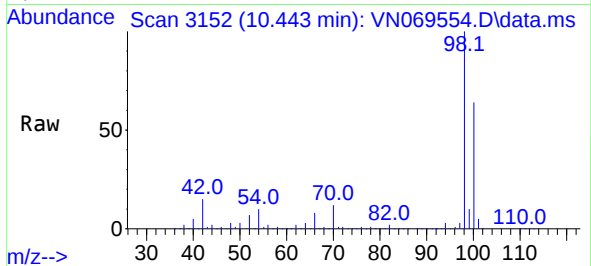




#50
Toluene-d8
Concen: 53.677 ug/l
RT: 10.443 min Scan# 3151
Delta R.T. 0.002 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

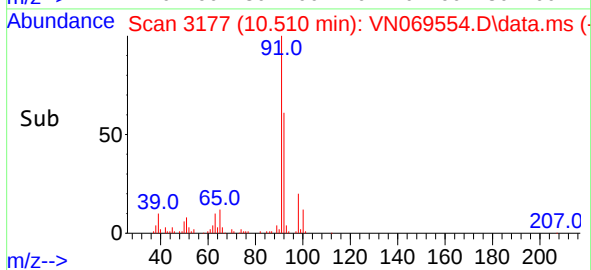
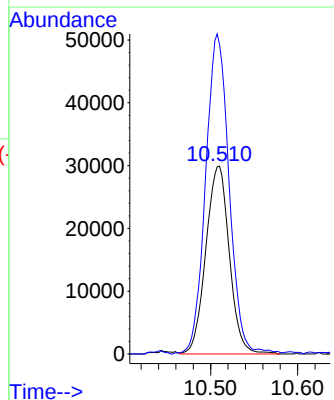
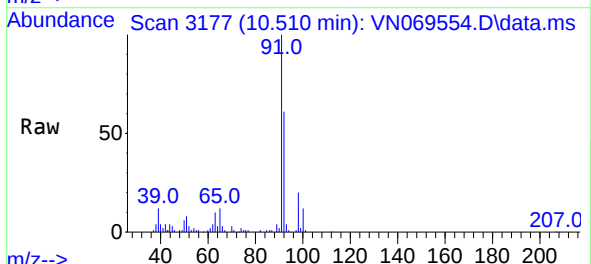
Instrument :
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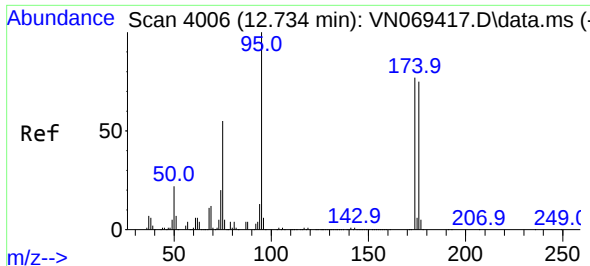
Tgt Ion: 98 Resp: 3005455
Ion Ratio Lower Upper
98 100
100 63.8 50.4 75.6



#52
Toluene
Concen: 1.463 ug/l
RT: 10.510 min Scan# 3177
Delta R.T. 0.005 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion: 92 Resp: 56206
Ion Ratio Lower Upper
92 100
91 168.8 142.0 213.0

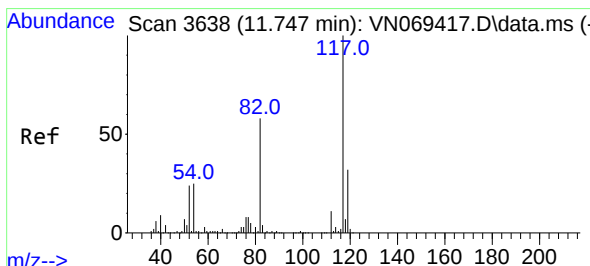
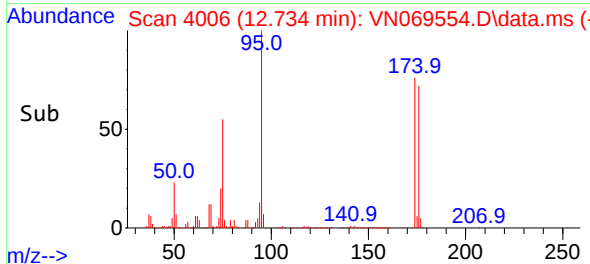
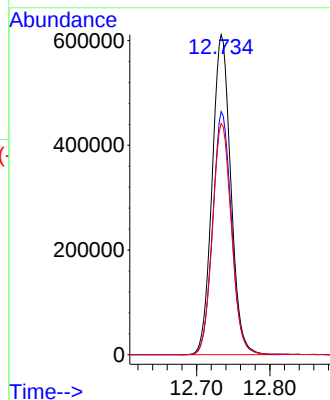
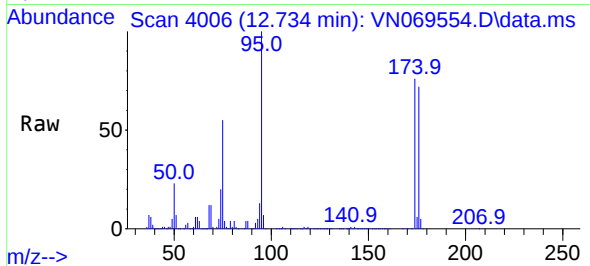




#62
4-Bromofluorobenzene
Concen: 52.569 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

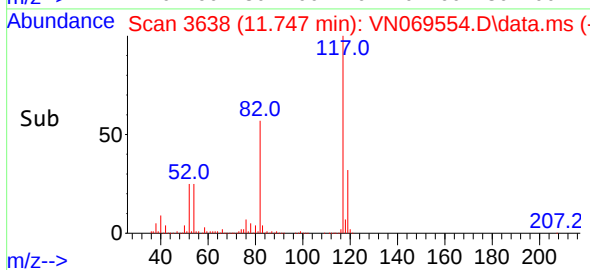
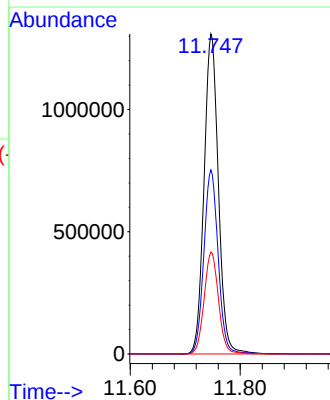
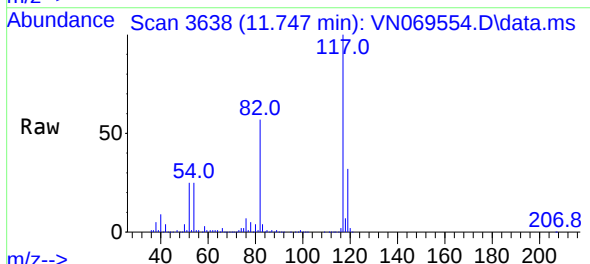
Instrument :
MSVOA_N
ClientSampleId :
MW-3R

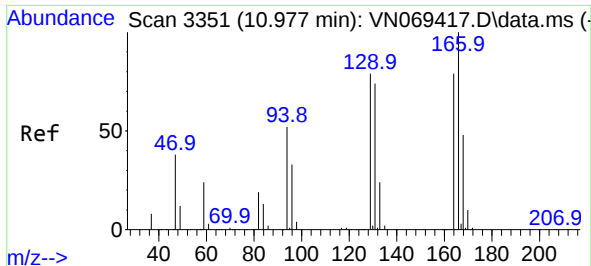
Tgt Ion: 95 Resp: 1081303
Ion Ratio Lower Upper
95 100
174 76.5 0.0 187.2
176 73.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion: 117 Resp: 2365360
Ion Ratio Lower Upper
117 100
82 57.5 42.4 63.6
119 31.8 25.4 38.2



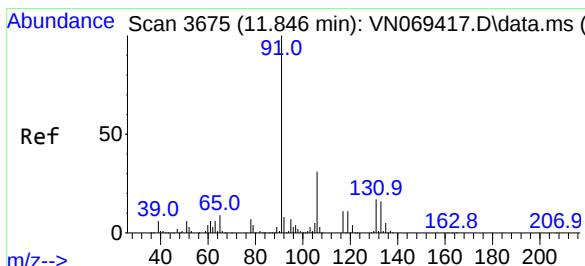
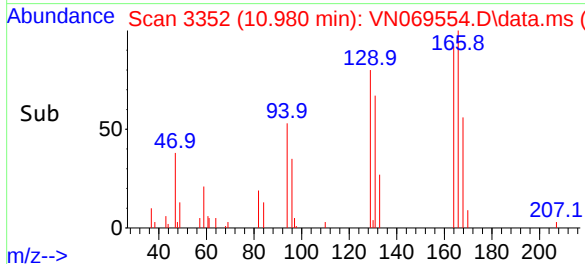
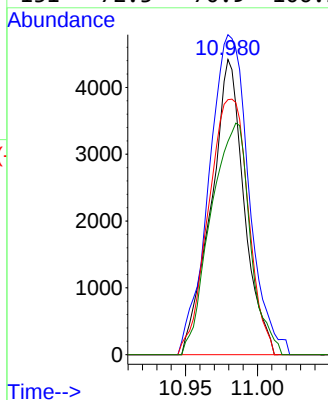
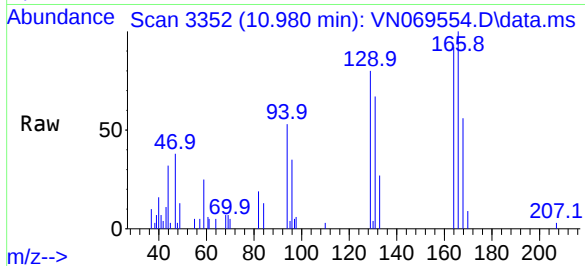


#64
Tetrachloroethene
Concen: 0.494 ug/l
RT: 10.980 min Scan# 31
Delta R.T. 0.003 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Instrument :
MSVOA_N
ClientSampleId :
MW-3R

Tgt Ion:164 Resp: 7049

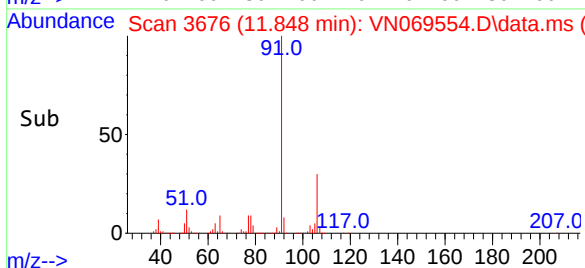
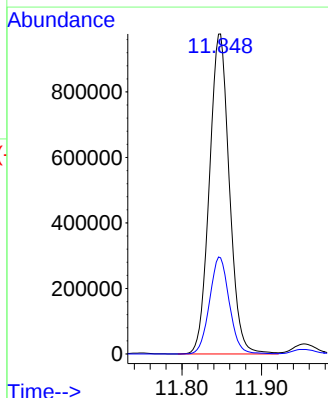
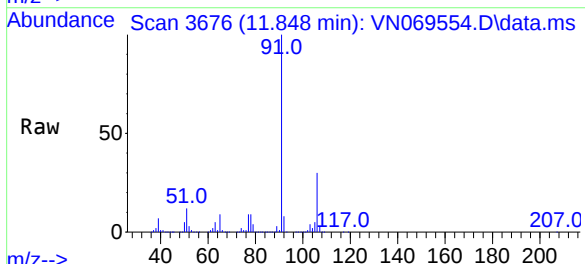
Ion	Ratio	Lower	Upper
164	100		
166	108.4	101.9	152.9
129	86.4	72.0	108.0
131	72.3	70.9	106.3

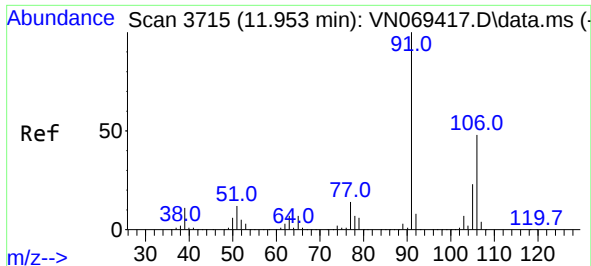


#67
Ethyl Benzene
Concen: 20.966 ug/l
RT: 11.848 min Scan# 3676
Delta R.T. 0.002 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion: 91 Resp: 1702497

Ion	Ratio	Lower	Upper
91	100		
106	30.1	25.7	38.5

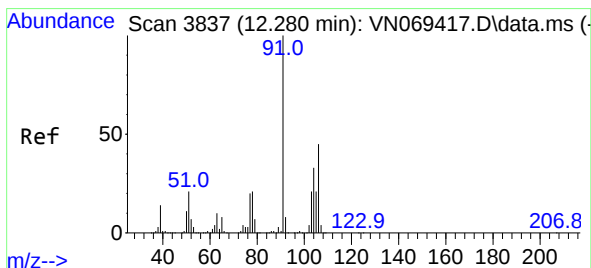
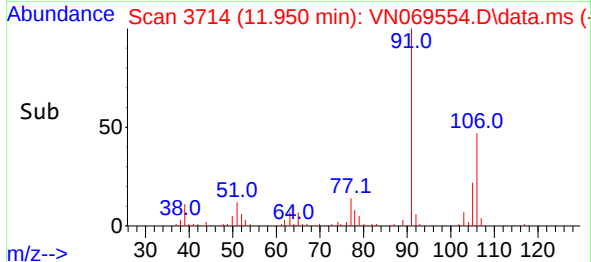
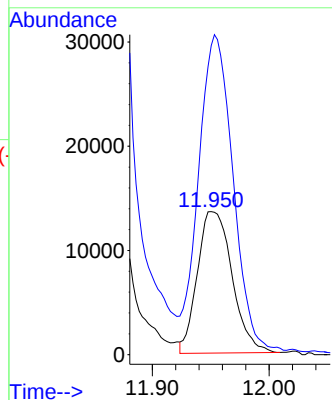
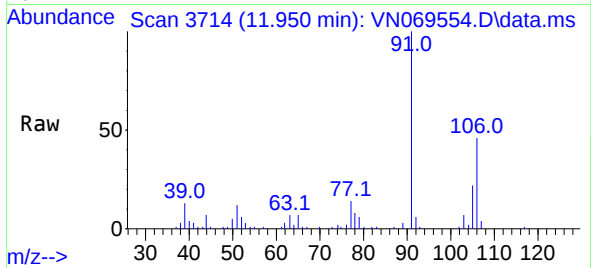




#68
m/p-Xylenes
Concen: 0.939 ug/l
RT: 11.950 min Scan# 31
Delta R.T. -0.003 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

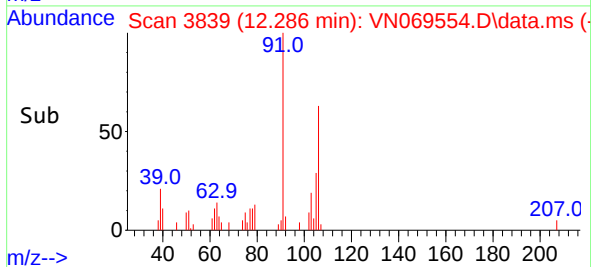
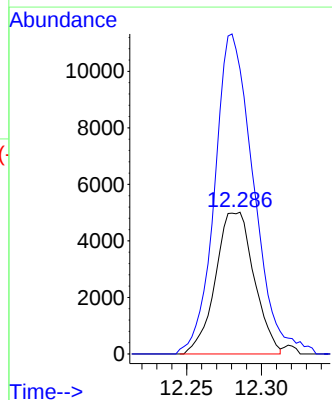
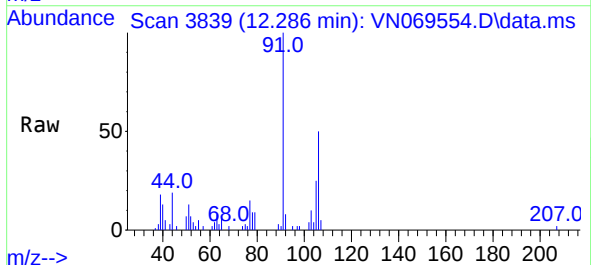
Instrument :
MSVOA_N
ClientSampleId :
MW-3R

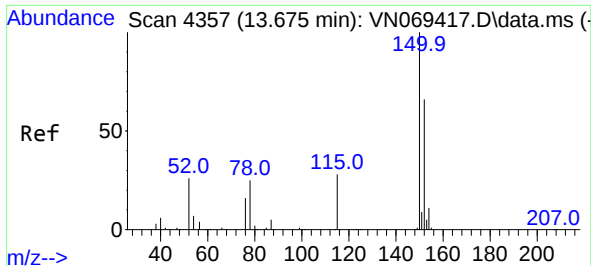
Tgt Ion:106 Resp: 28043
Ion Ratio Lower Upper
106 100
91 222.9 160.6 240.8



#69
o-Xylene
Concen: 0.302 ug/l
RT: 12.286 min Scan# 3839
Delta R.T. 0.006 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion:106 Resp: 8994
Ion Ratio Lower Upper
106 100
91 228.2 105.8 317.3

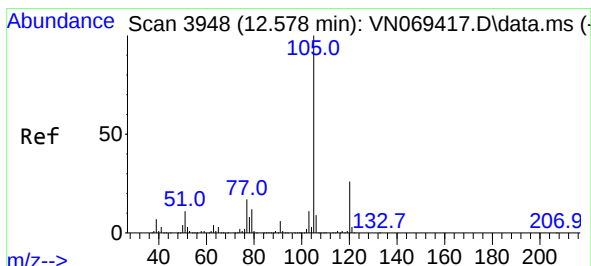
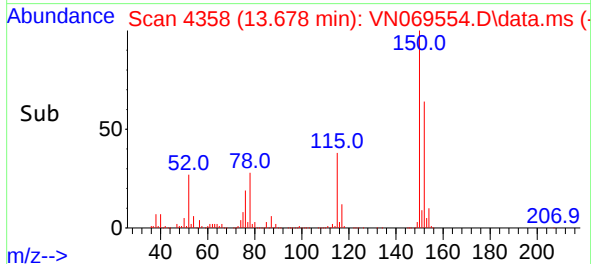
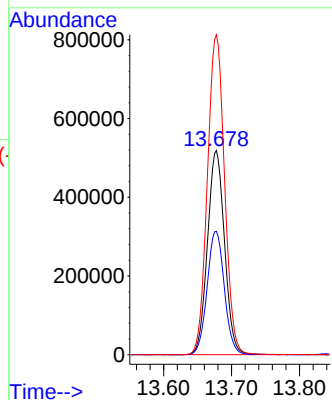
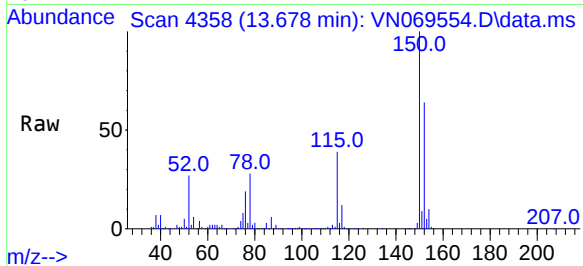




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 41
Delta R.T. 0.003 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

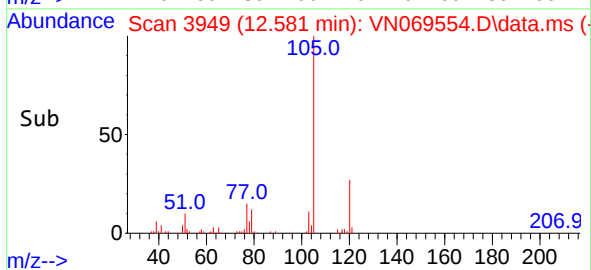
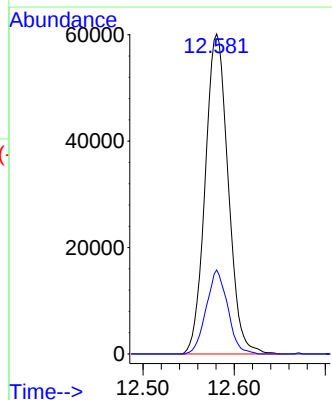
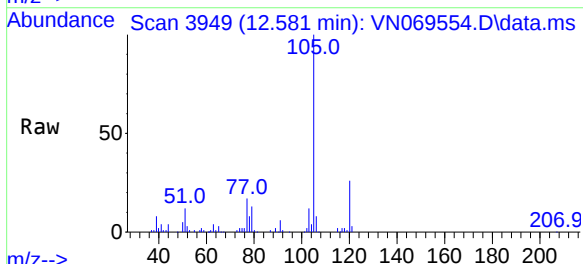
Instrument :
MSVOA_N
ClientSampleId :
MW-3R

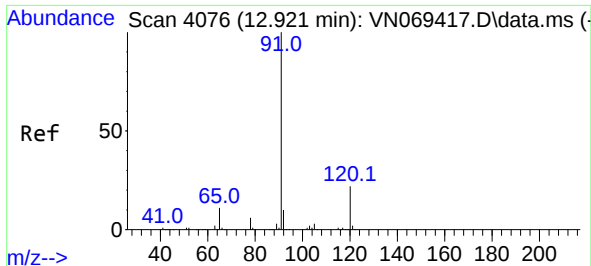
Tgt Ion:152 Resp: 905886
Ion Ratio Lower Upper
152 100
115 60.9 27.5 82.5
150 157.7 0.0 344.4



#73
Isopropylbenzene
Concen: 1.461 ug/l
RT: 12.581 min Scan# 3949
Delta R.T. 0.003 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion:105 Resp: 105371
Ion Ratio Lower Upper
105 100
120 24.5 13.4 40.1

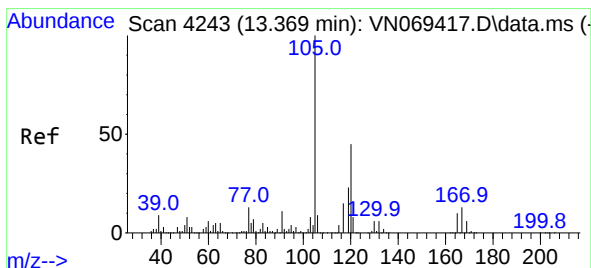
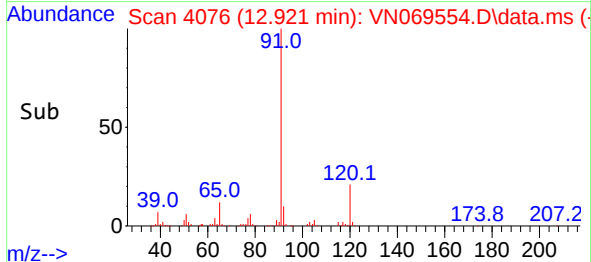
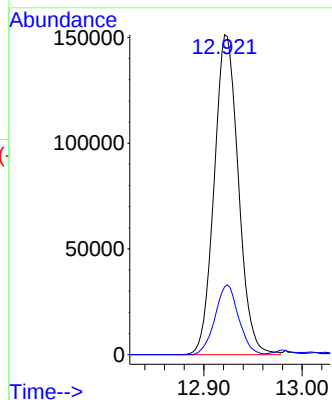
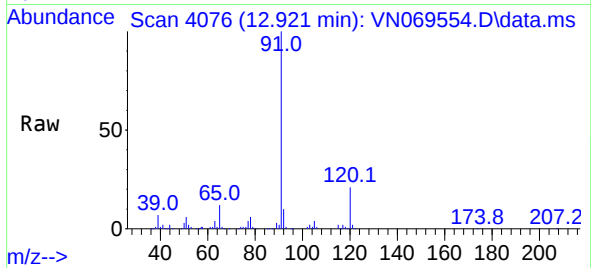




#78
n-propylbenzene
Concen: 3.192 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.000 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

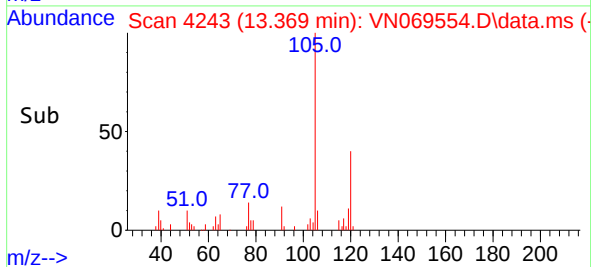
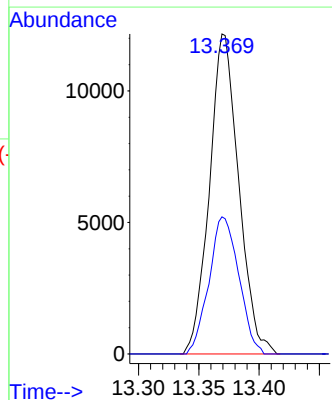
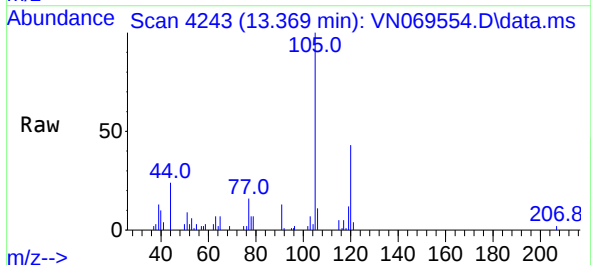
Instrument :
MSVOA_N
ClientSampleId :
MW-3R

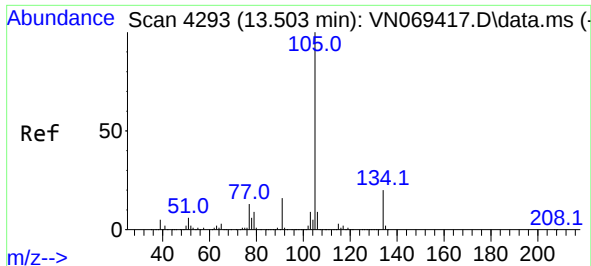
Tgt Ion: 91 Resp: 259078
Ion Ratio Lower Upper
91 100
120 21.3 11.9 35.9



#84
1,2,4-Trimethylbenzene
Concen: 0.365 ug/l
RT: 13.369 min Scan# 4243
Delta R.T. 0.000 min
Lab File: VN069554.D
Acq: 18 Nov 2021 15:43

Tgt Ion: 105 Resp: 20539
Ion Ratio Lower Upper
105 100
120 43.6 22.8 68.4

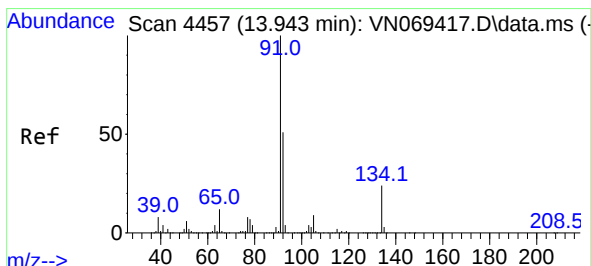
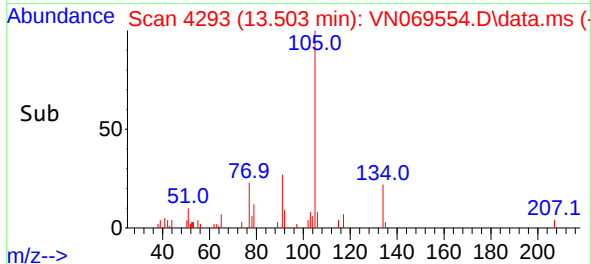
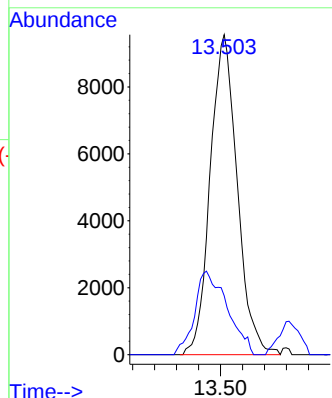
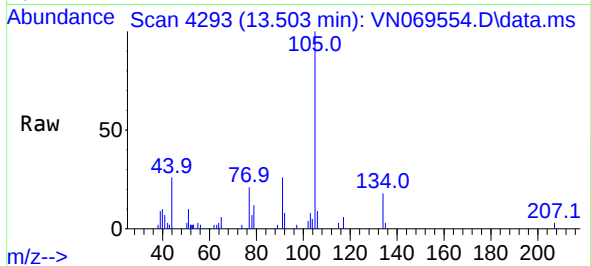




#85
 sec-Butylbenzene
 Concen: 0.228 ug/l
 RT: 13.503 min Scan# 4293
 Delta R.T. 0.000 min
 Lab File: VN069554.D
 Acq: 18 Nov 2021 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3R

Tgt Ion:105 Resp: 16304
 Ion Ratio Lower Upper
 105 100
 134 31.5 10.4 31.1#



#89
 n-Butylbenzene
 Concen: 0.281 ug/l
 RT: 13.943 min Scan# 4457
 Delta R.T. 0.000 min
 Lab File: VN069554.D
 Acq: 18 Nov 2021 15:43

Tgt Ion: 91 Resp: 13282
 Ion Ratio Lower Upper
 91 100
 92 45.2 25.4 76.0
 134 0.0 13.6 40.8#

