

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071521\
 Data File : VN067762.D
 Acq On : 15 Jul 2021 14:20
 Operator : JC/MD
 Sample : M3058-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 210714106-02-VOA

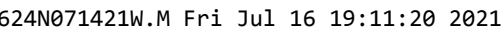
Quant Time: Jul 16 03:01:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

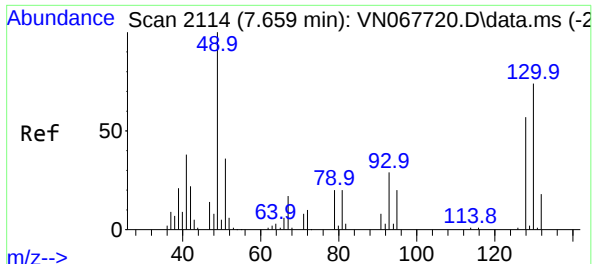
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.659	128	74224	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	428189	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	375352	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	193005	32.186	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.300%
60) 4-Bromofluorobenzene	12.733	95	167566	27.489	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.633%
63) Toluene-d8	10.443	98	529552	30.673	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.233%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.816	74	6018	2.366	ug/l	67
15) Acetone	4.293	58	7882	14.714	ug/l	93
23) tert-Butyl Alcohol	5.387	59	3909563	4908.228	ug/l #	100
24) Methyl tert-Butyl Ether	5.623	73	30517	2.053	ug/l #	58
34) Benzene	8.464	78	38223	1.903	ug/l #	61
45) 1,4-Dioxane	9.577	88	8397	97.095	ug/l #	94
58) 4-Methyl-2-Pentanone	10.336	43	58028	9.003	ug/l	98
62) Toluene	10.507	91	60623	2.746	ug/l	99
64) Chlorobenzene	11.776	112	8728	0.660	ug/l	98
66) Ethyl Benzene	11.846	91	22417	0.918	ug/l	99
67) m/p-Xylenes	11.953	106	43222	4.638	ug/l	97
68) o-Xylene	12.283	106	26520	2.883	ug/l	98
70) Isopropylbenzene	12.583	105	14342	0.604	ug/l	92
76) 1,3,5-Trimethylbenzene	13.061	105	13096	0.670	ug/l	96
80) 1,2,4-Trimethylbenzene	13.372	105	44025	2.269	ug/l #	82
82) p-Isopropyltoluene	13.618	119	67092	3.463	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	20598	2.075	ug/l	99
91) Naphthalene	15.507	128	76341	6.059	ug/l	98

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

Quant Time: Jul 16 03:01:33 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 14 01:19:19 2021
Response via : Initial Calibration

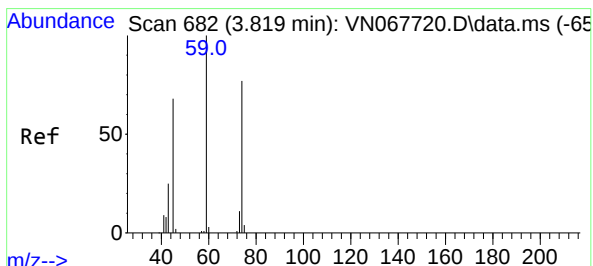
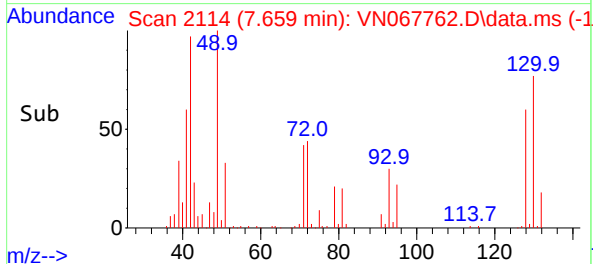
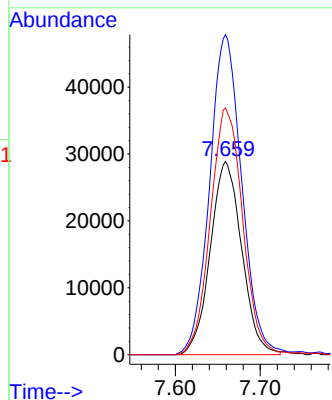
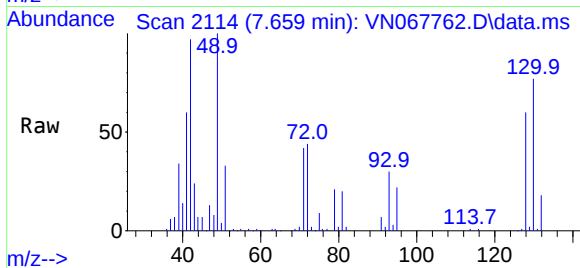




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.659 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

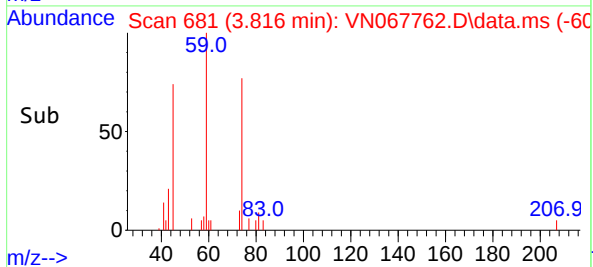
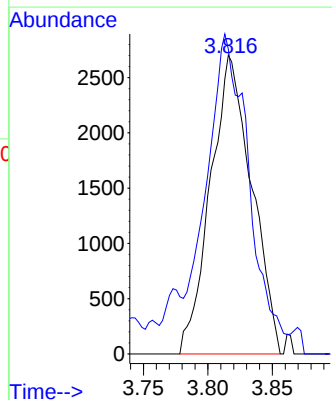
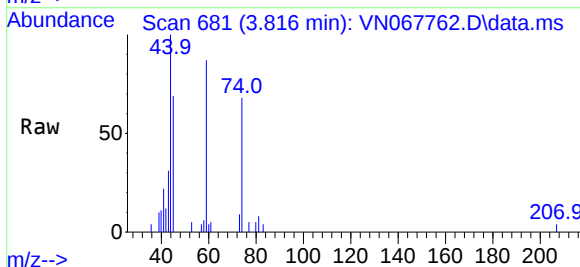
Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

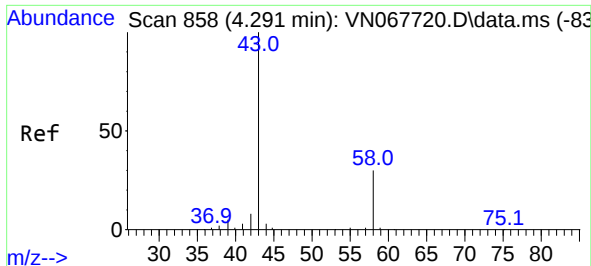
Tgt Ion:128 Resp: 74224
Ion Ratio Lower Upper
128 100
49 169.4 0.0 433.0
130 131.0 0.0 323.8



#8
Diethyl Ether
Concen: 2.366 ug/l
RT: 3.816 min Scan# 681
Delta R.T. -0.003 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion: 74 Resp: 6018
Ion Ratio Lower Upper
74 100
45 56.9 17.5 157.1

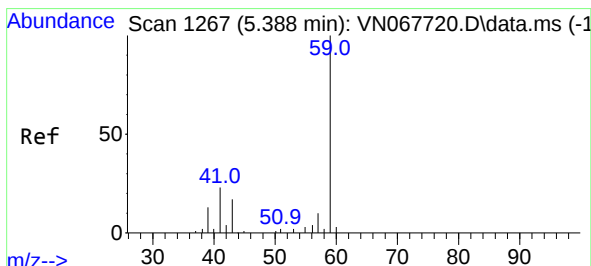
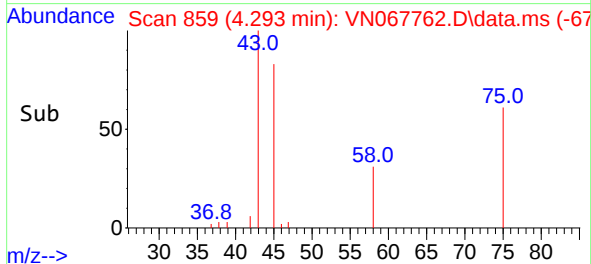
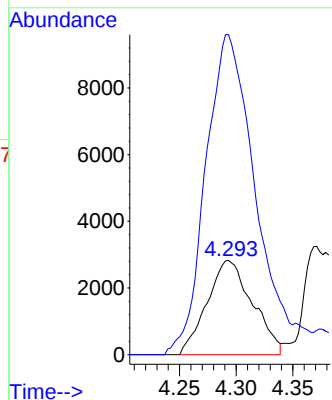
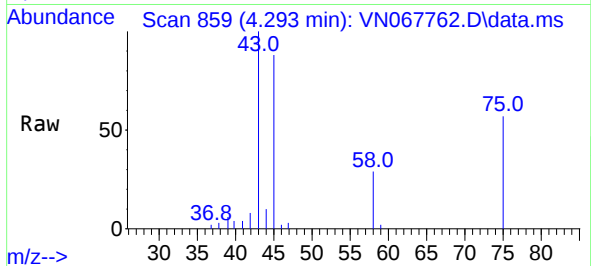




#15
Acetone
Concen: 14.714 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

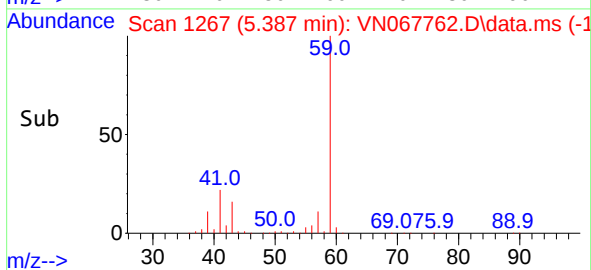
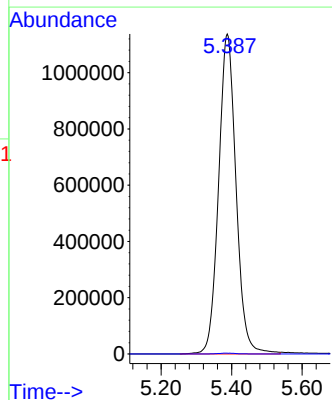
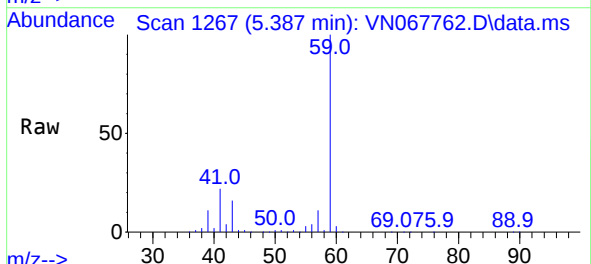
Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

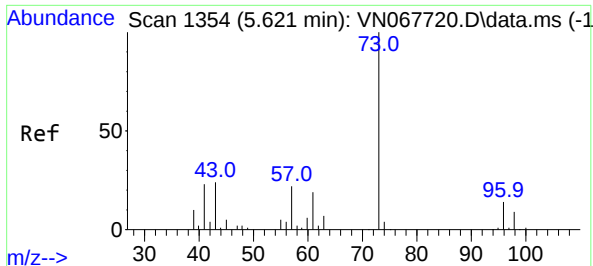
Tgt Ion: 58 Resp: 7882
Ion Ratio Lower Upper
58 100
43 320.4 268.2 402.4



#23
tert-Butyl Alcohol
Concen: 4908.228 ug/l
RT: 5.387 min Scan# 1267
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion: 59 Resp: 3909563
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#

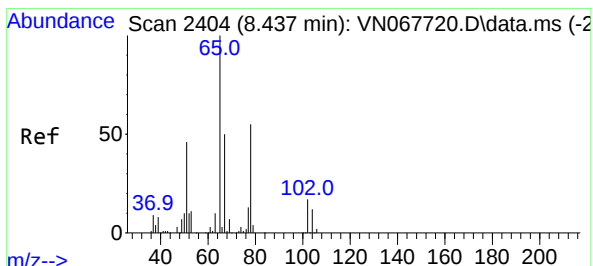
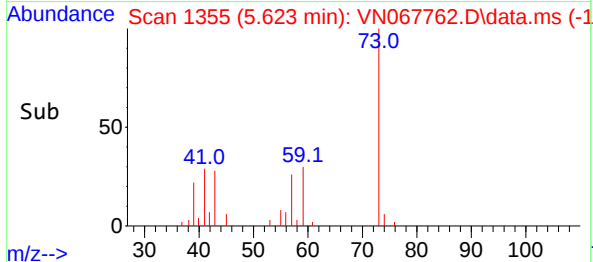
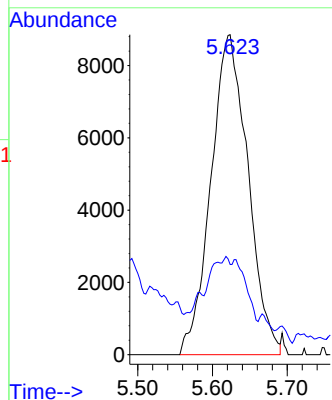
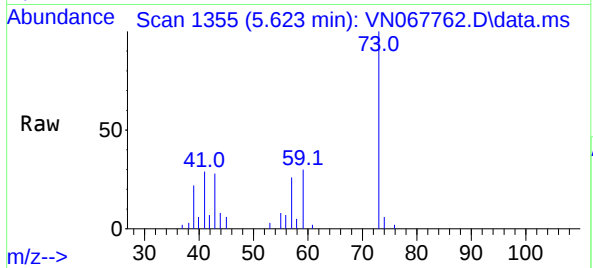




#24
Methyl tert-Butyl Ether
Concen: 2.053 ug/l
RT: 5.623 min Scan# 1355
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

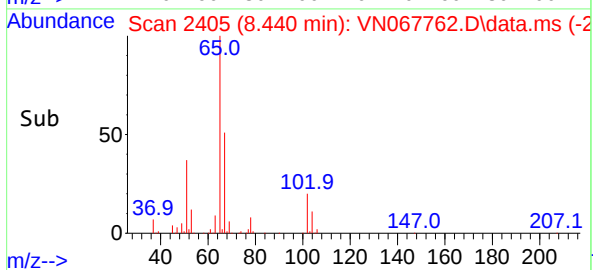
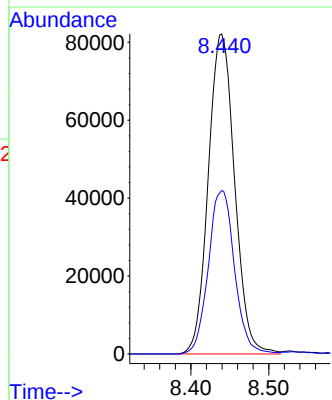
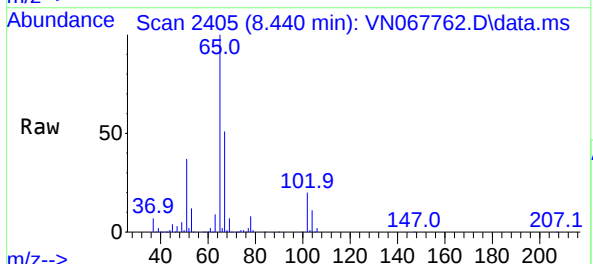
Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

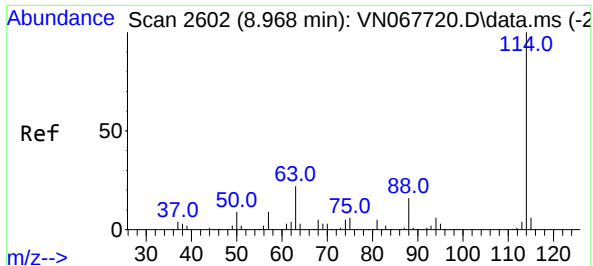
Tgt Ion: 73 Resp: 30517
Ion Ratio Lower Upper
73 100
43 2.9 18.6 27.8#



#27
1,2-Dichloroethane-d4
Concen: 32.186 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion: 65 Resp: 193005
Ion Ratio Lower Upper
65 100
67 50.7 40.6 60.8



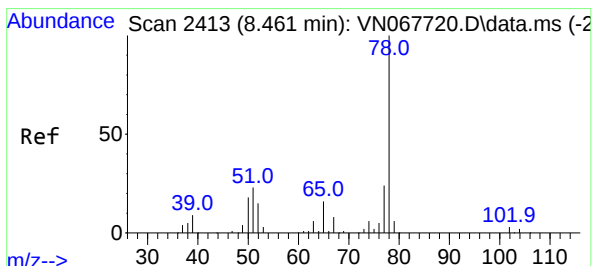
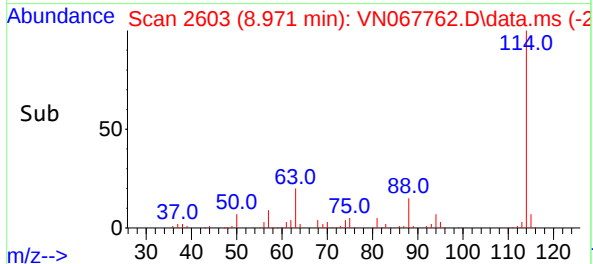
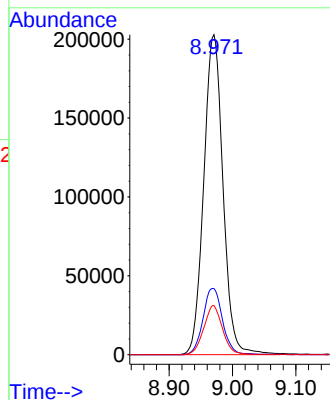
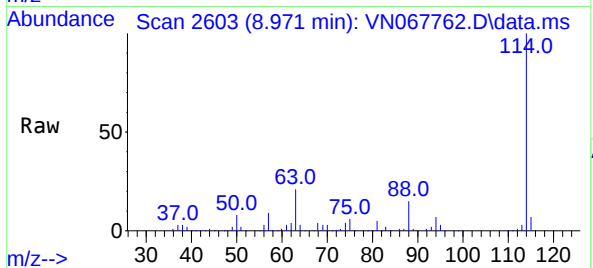


#28

1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

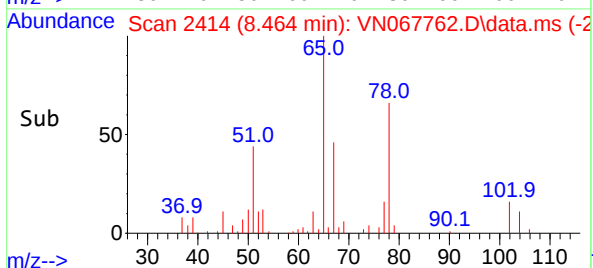
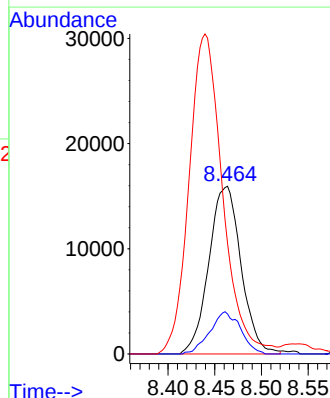
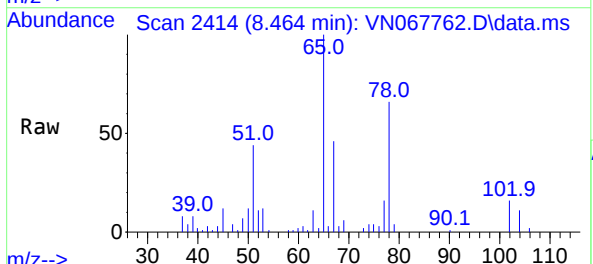
Tgt Ion:114 Resp: 428189
Ion Ratio Lower Upper
114 100
63 20.9 17.2 25.8
88 15.0 12.4 18.6

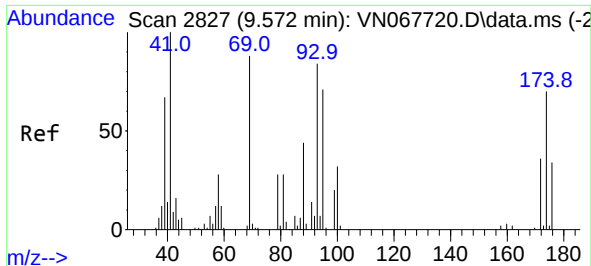


#34

Benzene
Concen: 1.903 ug/l
RT: 8.464 min Scan# 2414
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion: 78 Resp: 38223
Ion Ratio Lower Upper
78 100
77 23.8 19.1 28.7
51 61.6 18.2 27.4#

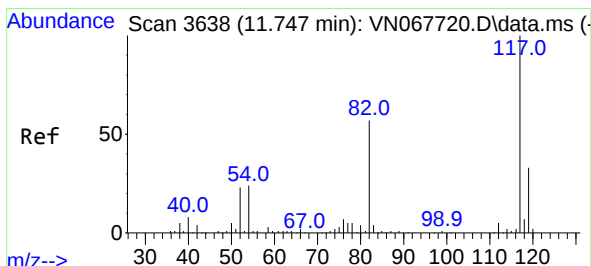
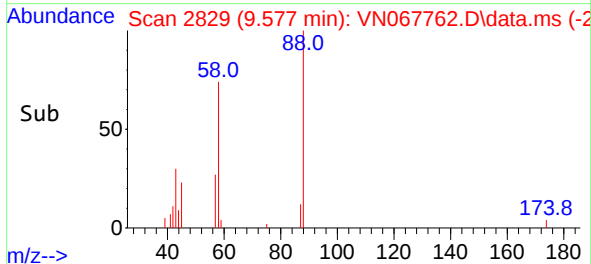
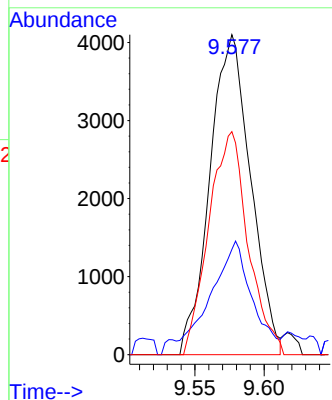
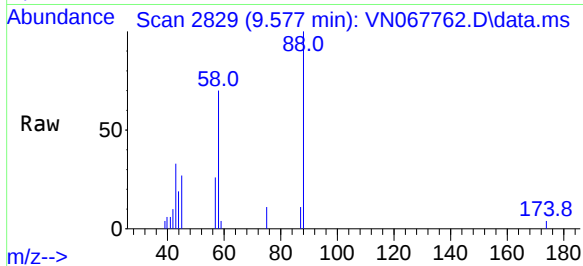




#45
1,4-Dioxane
Concen: 97.095 ug/l
RT: 9.577 min Scan# 2829
Delta R.T. 0.005 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

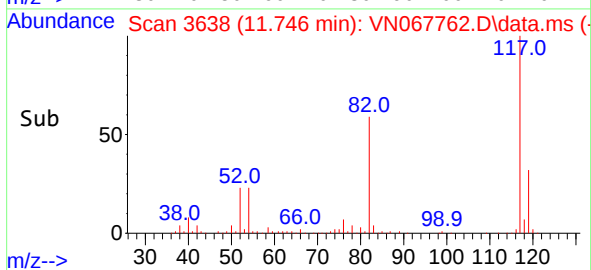
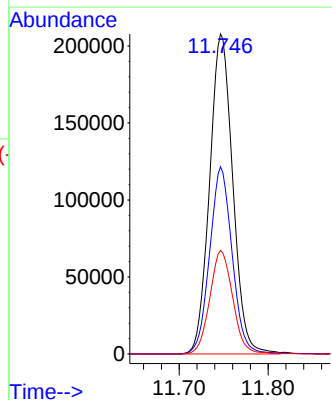
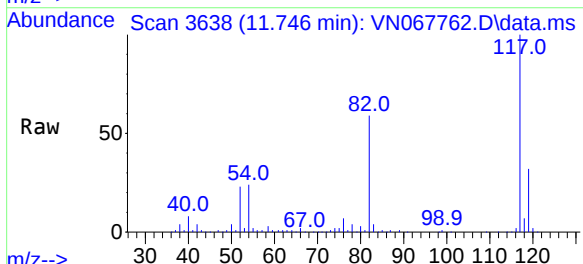
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ClientSampleId :
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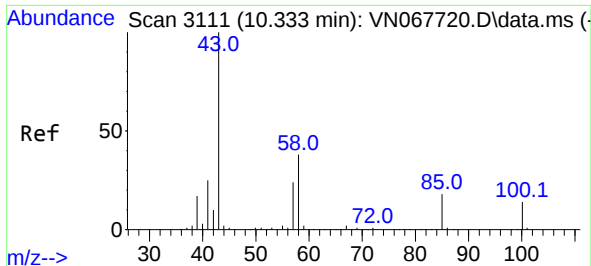
Tgt Ion: 88 Resp: 8397
Ion Ratio Lower Upper
88 100
43 26.7 26.9 40.3#
58 67.3 52.2 78.4



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion: 117 Resp: 375352
Ion Ratio Lower Upper
117 100
82 56.8 45.4 68.0
119 31.9 25.7 38.5

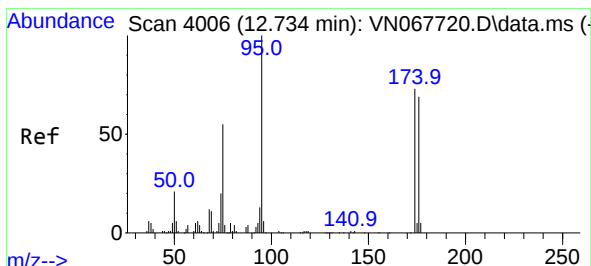
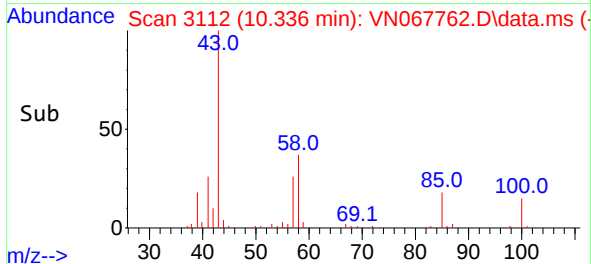
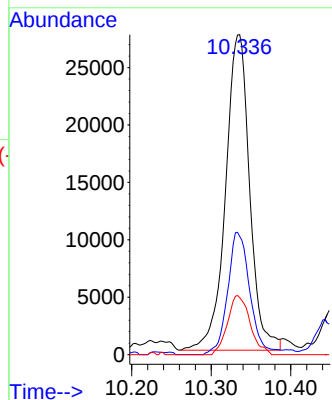
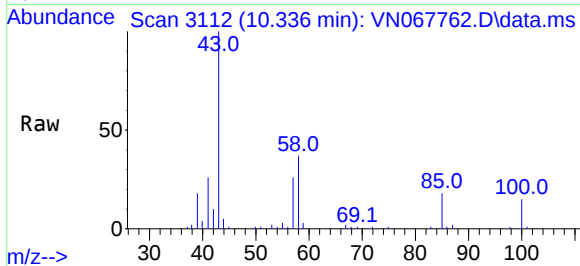




#58
4-Methyl-2-Pentanone
Concen: 9.003 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

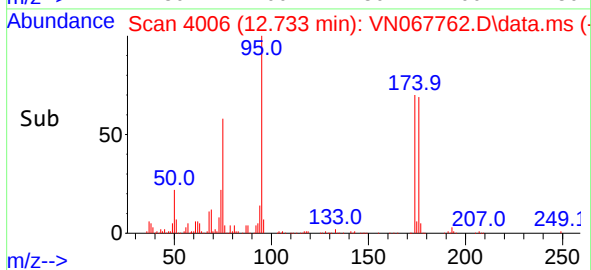
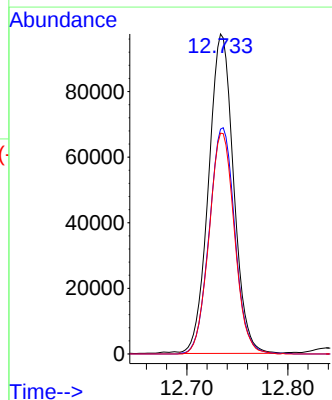
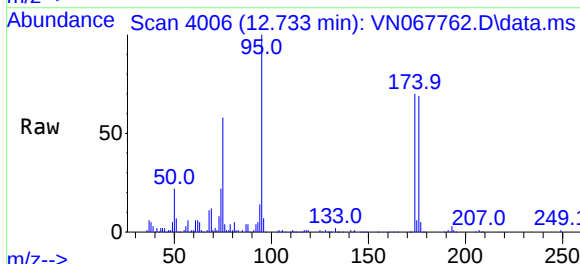
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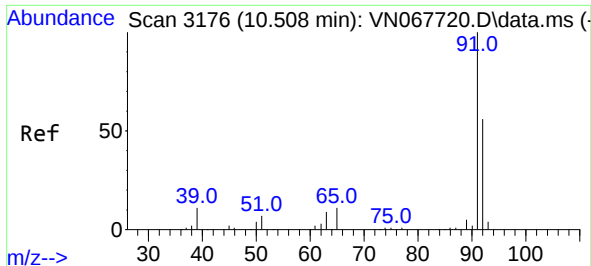
Tgt Ion: 43 Resp: 58028
Ion Ratio Lower Upper
43 100
58 35.4 29.9 44.9
85 17.5 14.1 21.1



#60
4-Bromofluorobenzene
Concen: 27.489 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion: 95 Resp: 167566
Ion Ratio Lower Upper
95 100
174 72.3 57.1 85.7
176 70.0 54.6 81.8

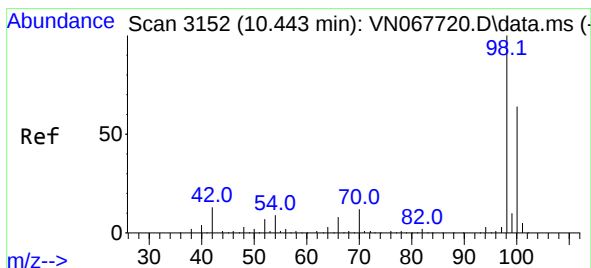
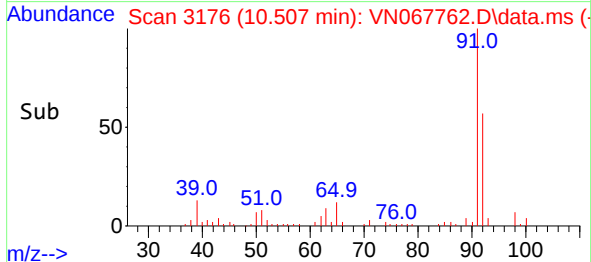
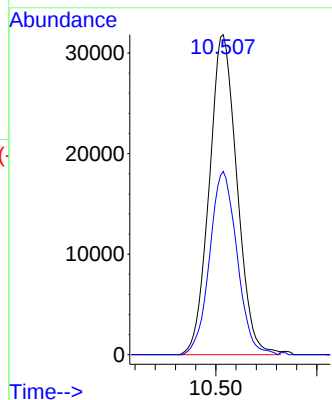
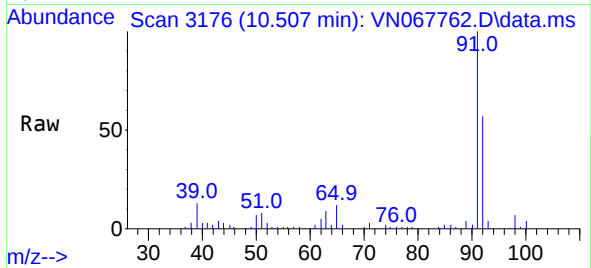




#62
Toluene
Concen: 2.746 ug/l
RT: 10.507 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

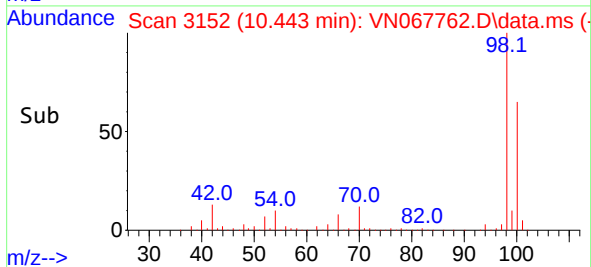
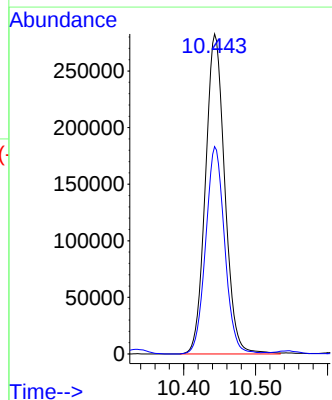
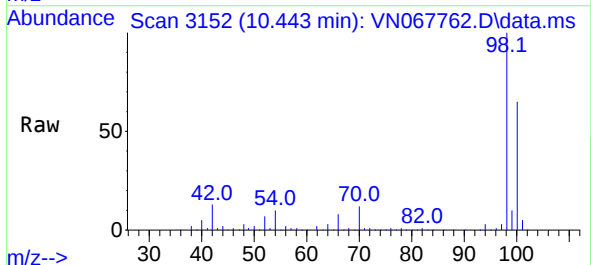
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210714106-02-VOA

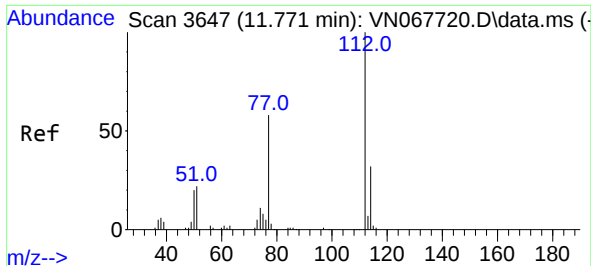
Tgt Ion: 91 Resp: 60623
Ion Ratio Lower Upper
91 100
92 56.5 44.8 67.2



#63
Toluene-d8
Concen: 30.673 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion: 98 Resp: 529552
Ion Ratio Lower Upper
98 100
100 63.6 51.0 76.4

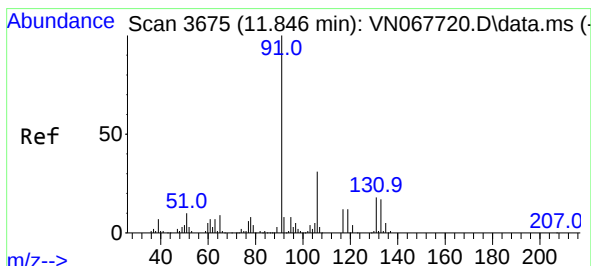
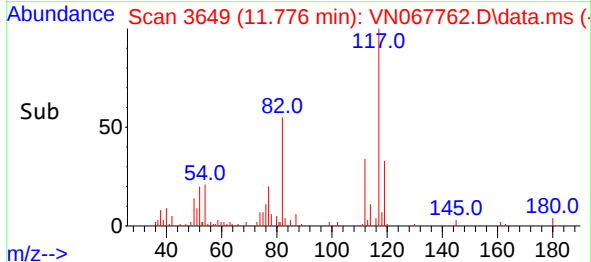
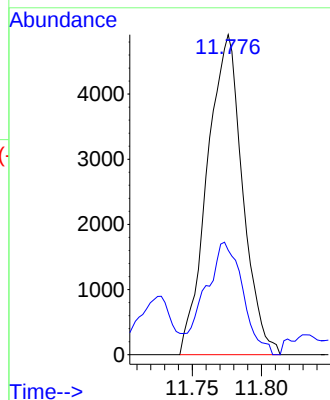
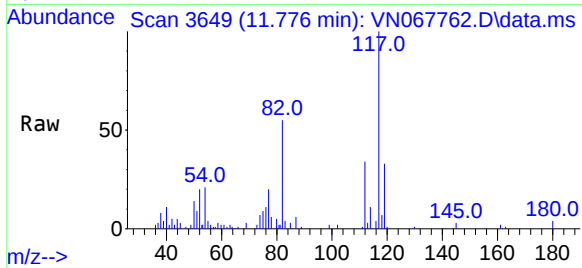




#64
Chlorobenzene
Concen: 0.660 ug/l
RT: 11.776 min Scan# 3649
Delta R.T. 0.005 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

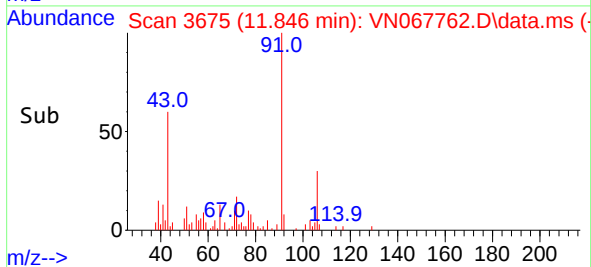
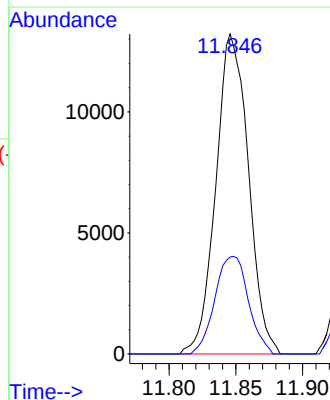
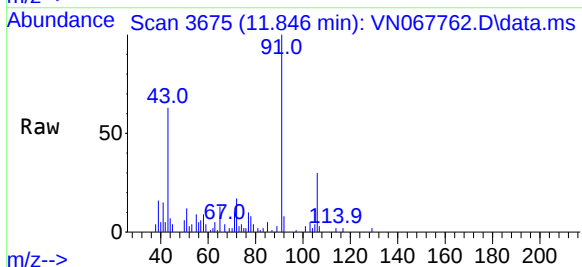
Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

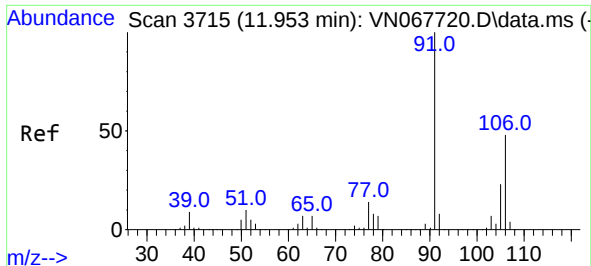
Tgt Ion:112 Resp: 8728
Ion Ratio Lower Upper
112 100
114 32.7 25.2 37.8



#66
Ethyl Benzene
Concen: 0.918 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

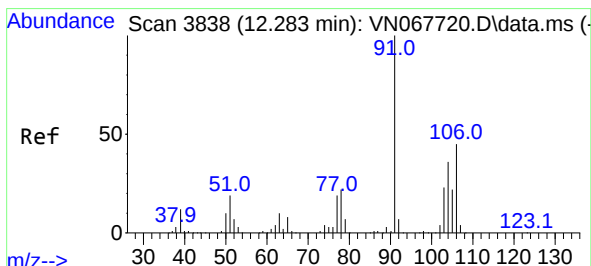
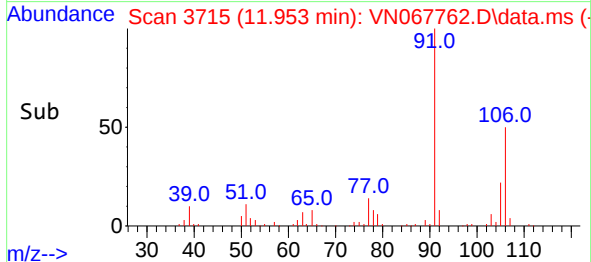
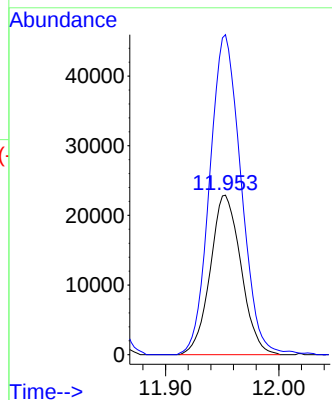
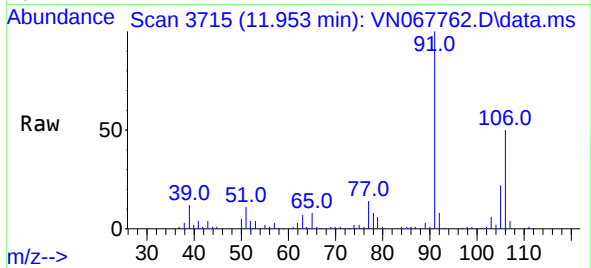
Tgt Ion: 91 Resp: 22417
Ion Ratio Lower Upper
91 100
106 30.3 24.6 37.0





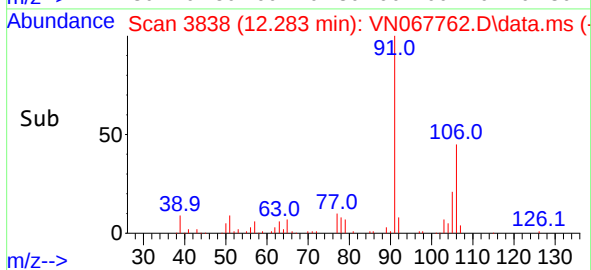
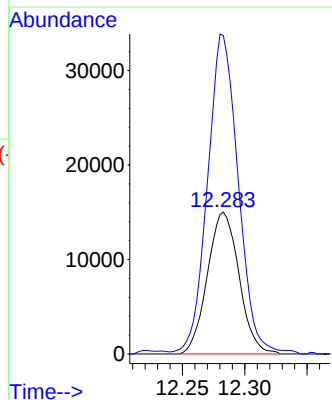
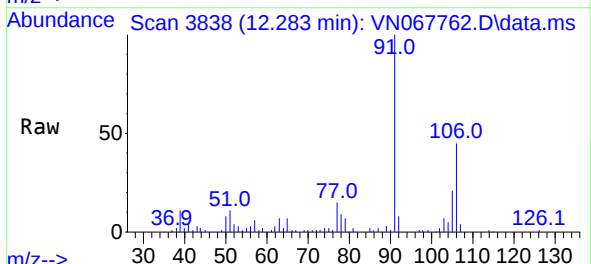
#67
m/p-Xylenes
Concen: 4.638 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

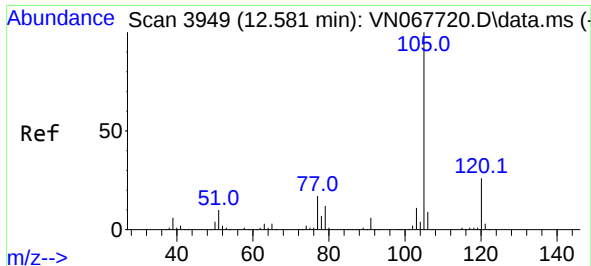
Tgt Ion:106 Resp: 43222
Ion Ratio Lower Upper
106 100
91 203.6 166.6 250.0



#68
o-Xylene
Concen: 2.883 ug/l
RT: 12.283 min Scan# 3838
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion:106 Resp: 26520
Ion Ratio Lower Upper
106 100
91 215.6 109.6 328.8

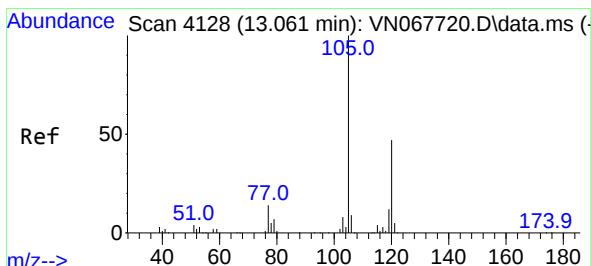
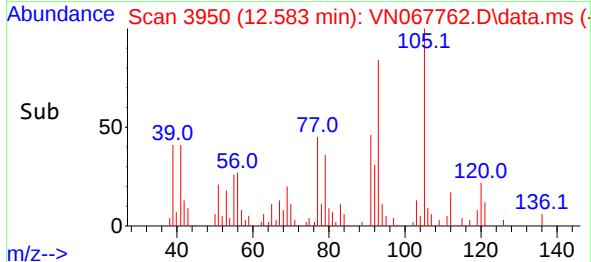
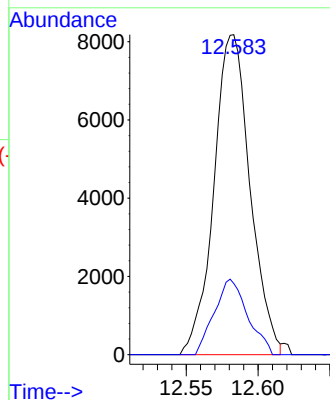
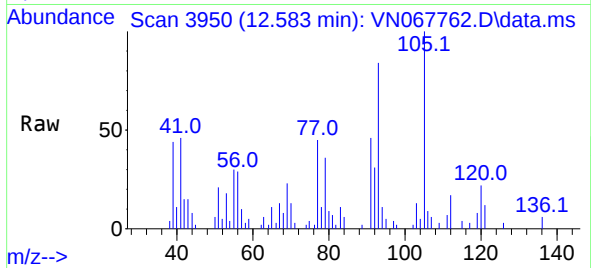




#70
Isopropylbenzene
Concen: 0.604 ug/l
RT: 12.583 min Scan# 3950
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

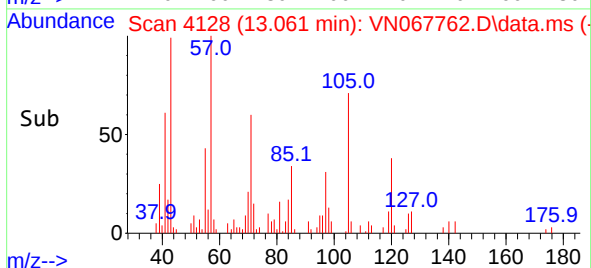
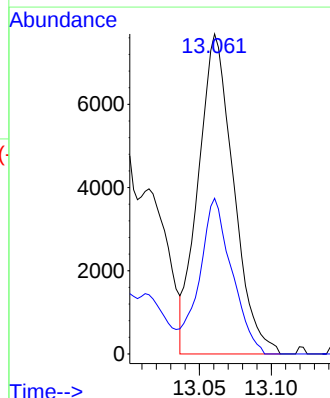
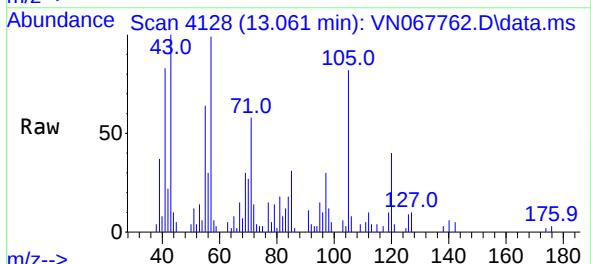
Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

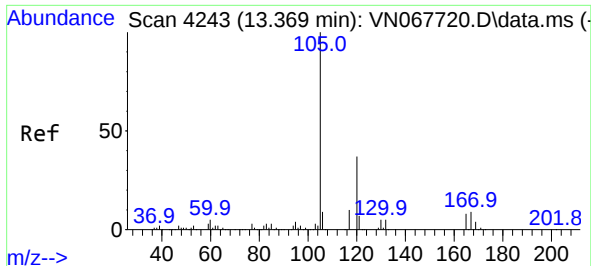
Tgt Ion:105 Resp: 14342
Ion Ratio Lower Upper
105 100
120 21.7 17.9 33.3



#76
1,3,5-Trimethylbenzene
Concen: 0.670 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion:105 Resp: 13096
Ion Ratio Lower Upper
105 100
120 45.1 0.0 96.2

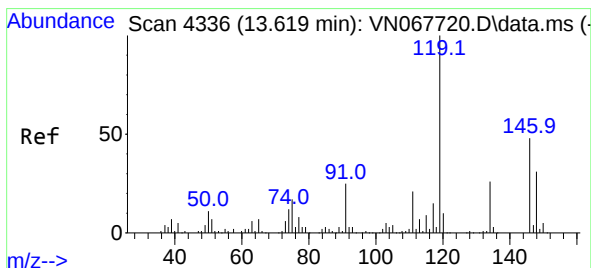
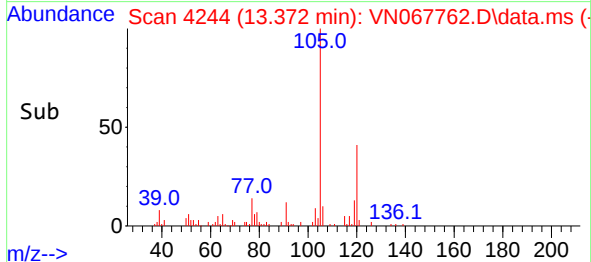
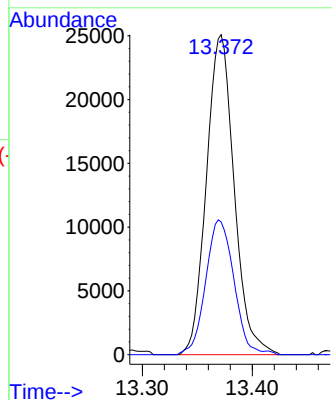
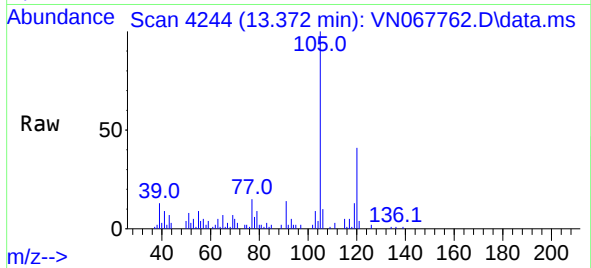




#80
1,2,4-Trimethylbenzene
Concen: 2.269 ug/l
RT: 13.372 min Scan# 4244
Delta R.T. 0.002 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

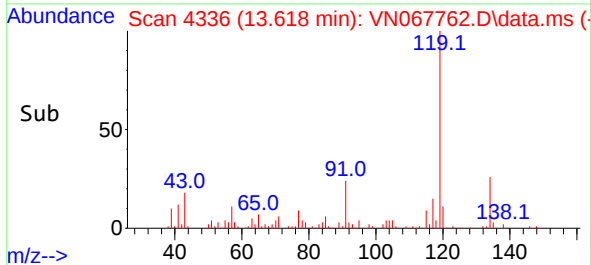
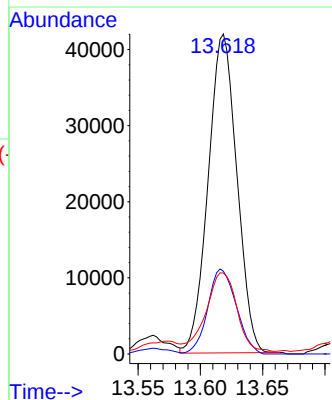
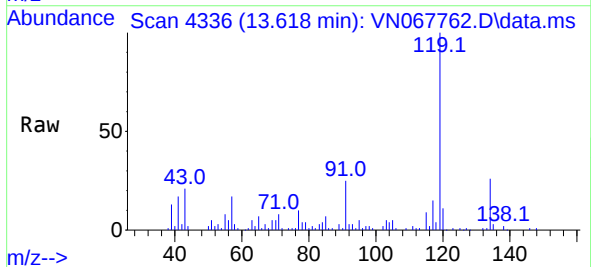
Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

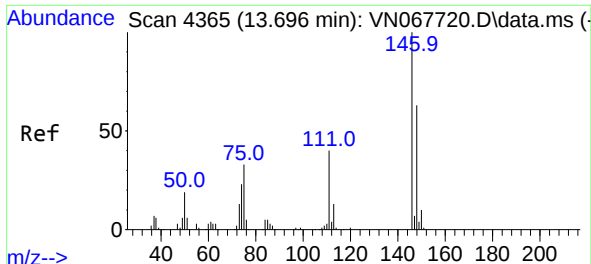
Tgt Ion:105 Resp: 44025
Ion Ratio Lower Upper
105 100
120 42.5 0.0 0.2#



#82
p-Isopropyltoluene
Concen: 3.463 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion:119 Resp: 67092
Ion Ratio Lower Upper
119 100
134 26.4 0.0 51.0
91 26.0 0.0 50.6

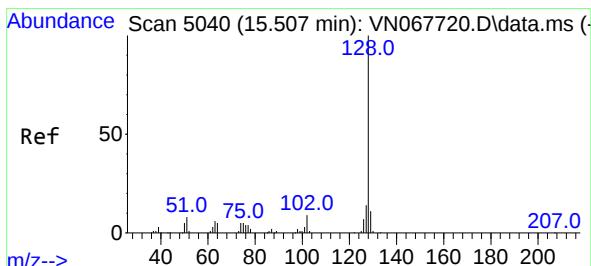
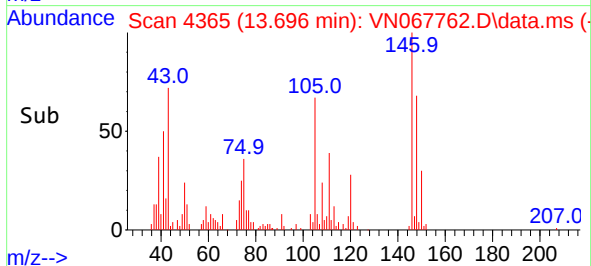
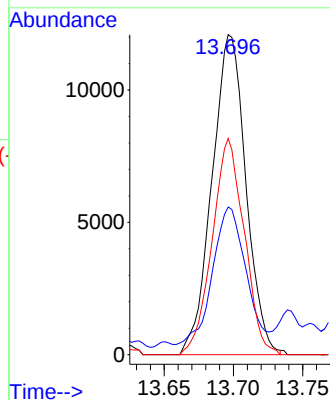
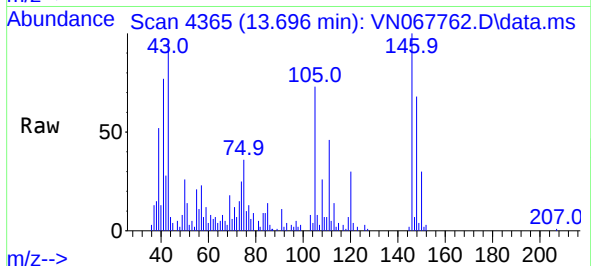




#84
1,4-Dichlorobenzene
Concen: 2.075 ug/l
RT: 13.696 min Scan# 4365
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Instrument :
MSVOA_N
ClientSampleId :
210714106-02-VOA

Tgt Ion:	146	Resp:	20598
Ion Ratio	Lower	Upper	
146	100		
111	41.6	20.0	59.9
148	63.8	31.8	95.3



#91
Naphthalene
Concen: 6.059 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN067762.D
Acq: 15 Jul 2021 14:20

Tgt Ion:	128	Resp:	76341
Ion Ratio	Lower	Upper	
128	100		
127	14.5	10.9	16.3
129	11.8	8.7	13.1

