

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021623\
 Data File : VN076709.D
 Acq On : 16 Feb 2023 14:15
 Operator : JC\MD
 Sample : 01578-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 230215027-02-VOA

Quant Time: Feb 17 00:10:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.231	168	354730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	598049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	537344	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	228861	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	237351	48.456	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.920%
35) Dibromofluoromethane	8.178	113	184222	47.037	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.080%
50) Toluene-d8	10.572	98	722539	49.400	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.800%
62) 4-Bromofluorobenzene	12.848	95	237029	48.929	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.860%

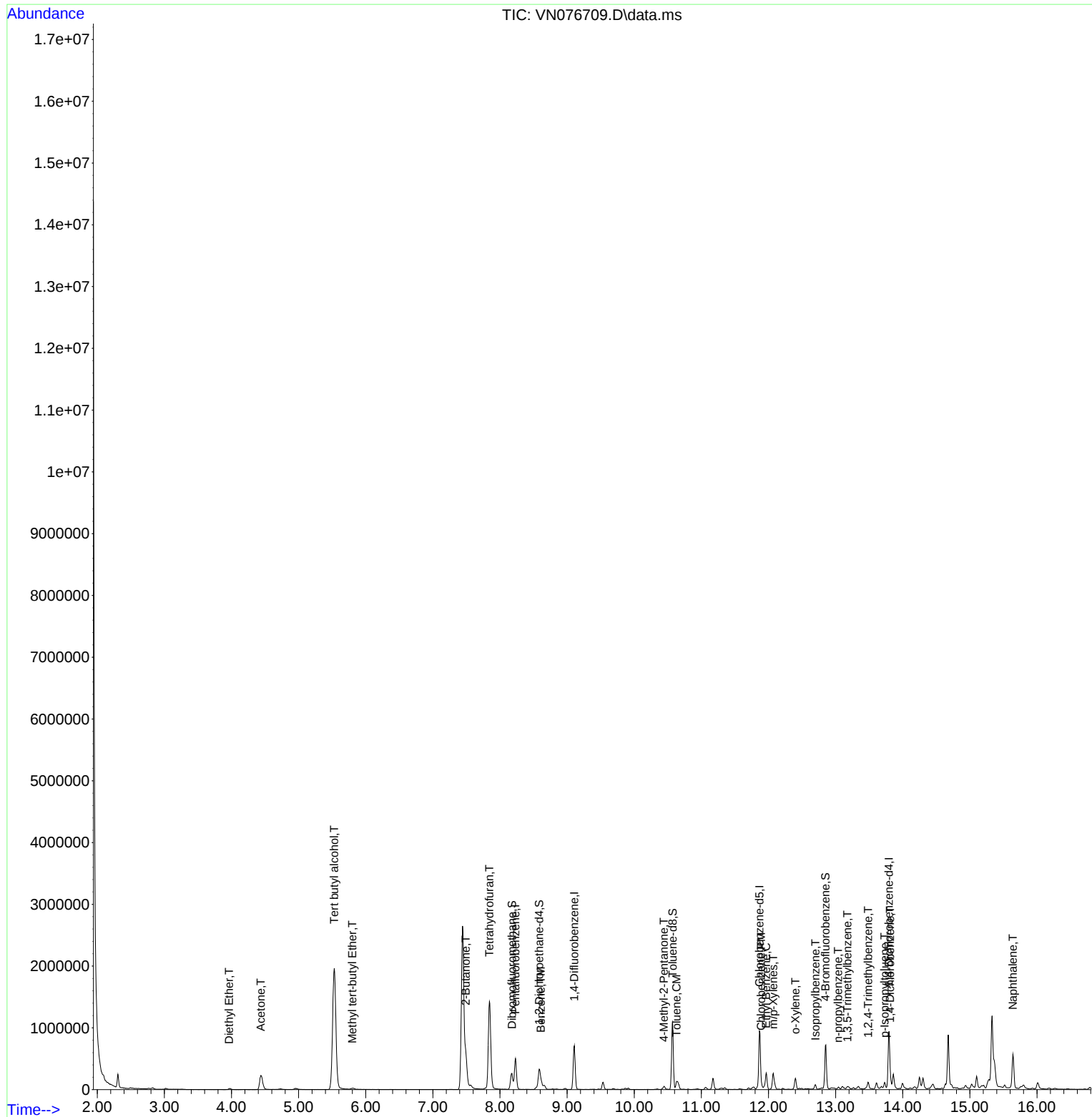
Target Compounds					Qvalue	
8) Diethyl Ether	3.966	74	10199	4.022	ug/l	96
11) Tert butyl alcohol	5.531	59	3577895	5533.742	ug/l	98
16) Acetone	4.437	43	420974	192.400	ug/l	96
19) Methyl tert-butyl Ether	5.801	73	25310	2.050	ug/l #	85
25) 2-Butanone	7.489	43	952587	295.149	ug/l	99
29) Tetrahydrofuran	7.842	42	1194281	566.365	ug/l	100
40) Benzene	8.607	78	98793	5.685	ug/l	92
51) 4-Methyl-2-Pentanone	10.442	43	38918	6.314	ug/l #	86
52) Toluene	10.630	92	49575	4.725	ug/l	98
65) Chlorobenzene	11.889	112	21167	1.859	ug/l #	84
67) Ethyl Benzene	11.966	91	175873	9.065	ug/l	97
68) m/p-Xylenes	12.072	106	80459	10.759	ug/l	98
69) o-Xylene	12.401	106	43150	5.916	ug/l	98
73) Isopropylbenzene	12.701	105	40890	2.438	ug/l	91
78) n-propylbenzene	13.036	91	10888	0.553	ug/l	92
80) 1,3,5-Trimethylbenzene	13.177	105	13782	0.994	ug/l	98
84) 1,2,4-Trimethylbenzene	13.483	105	57790	4.183	ug/l	96
86) p-Isopropyltoluene	13.730	119	50547	3.615	ug/l	99
88) 1,4-Dichlorobenzene	13.813	146	32016	4.064	ug/l	92
95) Naphthalene	15.642	128	498596	40.612	ug/l	99

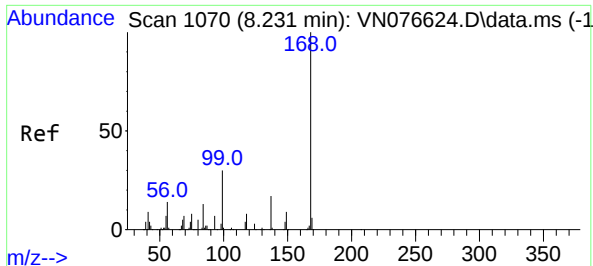
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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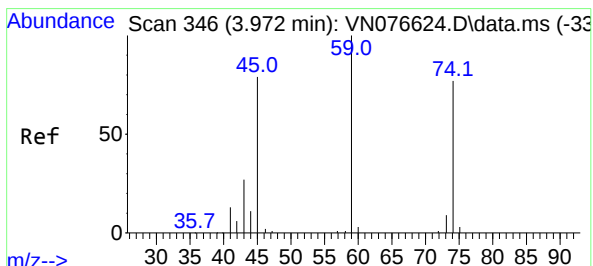
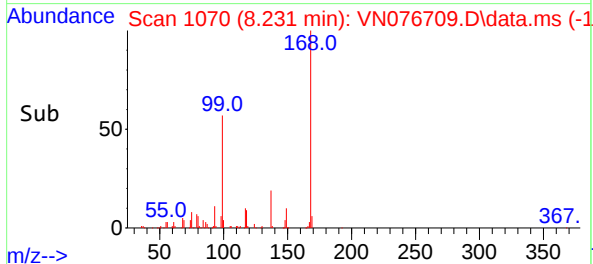
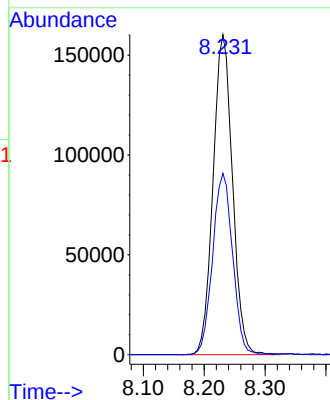
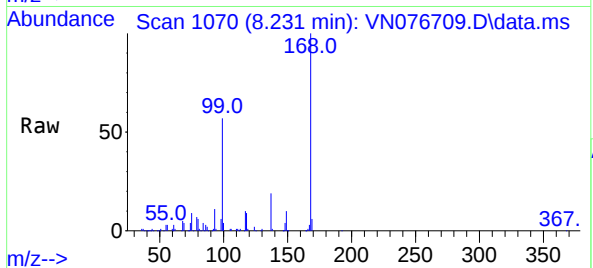




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

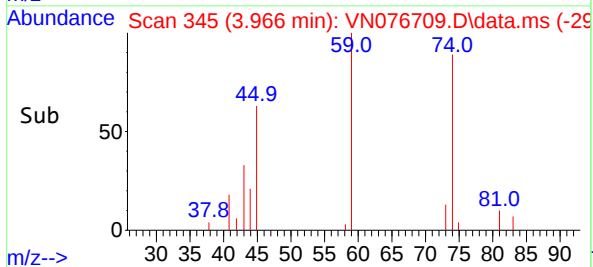
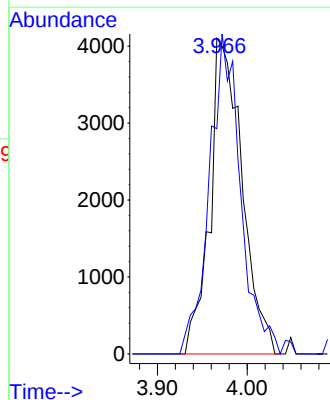
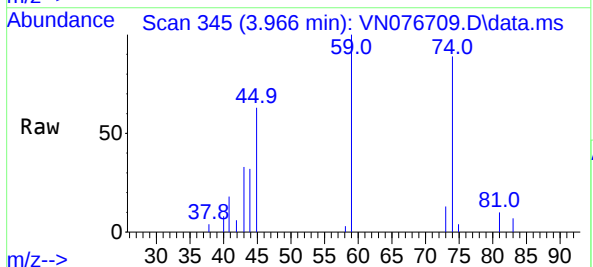
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

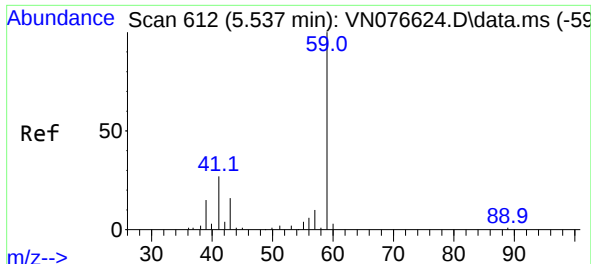
Tgt Ion:168 Resp: 354730
Ion Ratio Lower Upper
168 100
99 56.7 44.8 67.2



#8
Diethyl Ether
Concen: 4.022 ug/l
RT: 3.966 min Scan# 345
Delta R.T. -0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion: 74 Resp: 10199
Ion Ratio Lower Upper
74 100
45 98.2 51.3 153.9

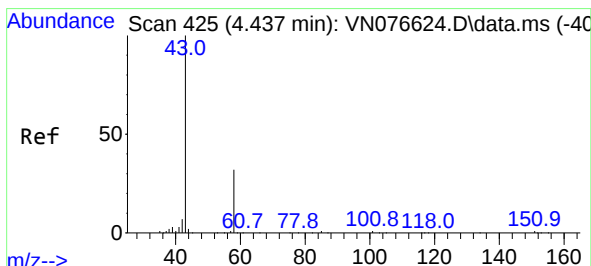
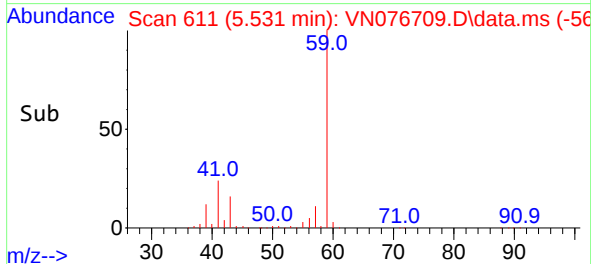
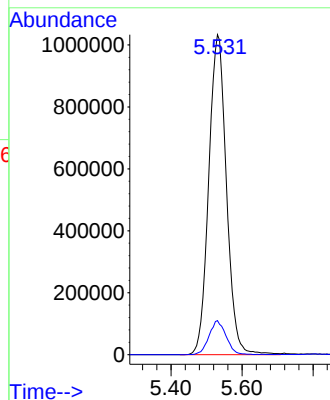
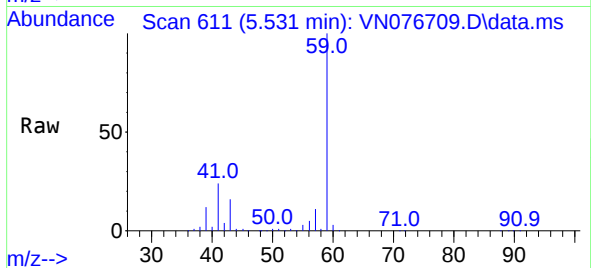




#11
Tert butyl alcohol
Concen: 5533.742 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

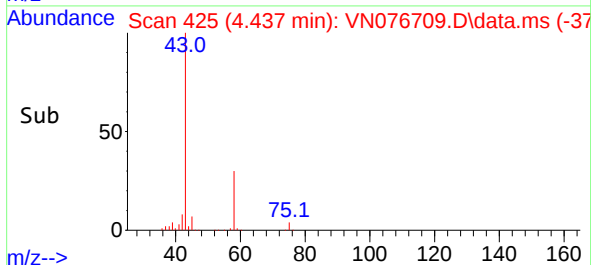
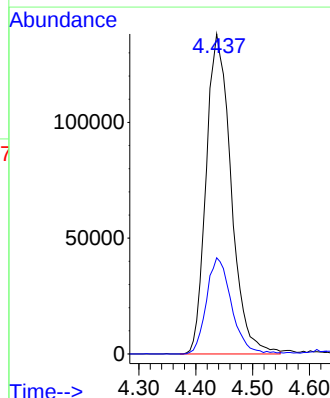
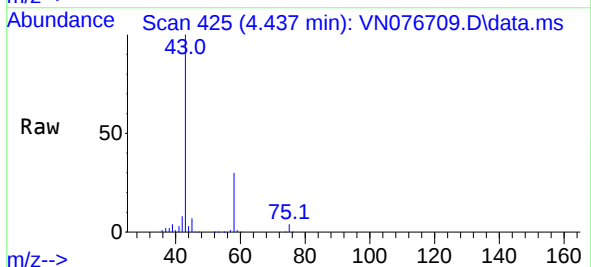
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

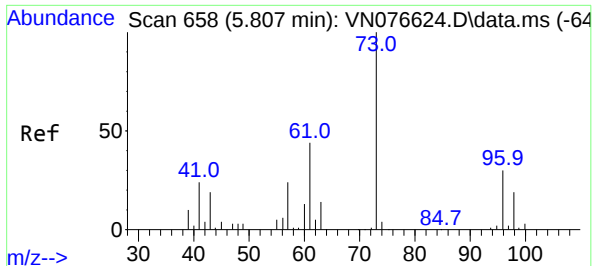
Tgt Ion: 59 Resp: 3577895
Ion Ratio Lower Upper
59 100
57 10.3 8.7 13.1



#16
Acetone
Concen: 192.400 ug/l
RT: 4.437 min Scan# 425
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion: 43 Resp: 420974
Ion Ratio Lower Upper
43 100
58 30.1 25.9 38.9





#19

Methyl tert-butyl Ether

Concen: 2.050 ug/l

RT: 5.801 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN076709.D

Acq: 16 Feb 2023 14:15

Instrument :

MSVOA_N

ClientSampleId :

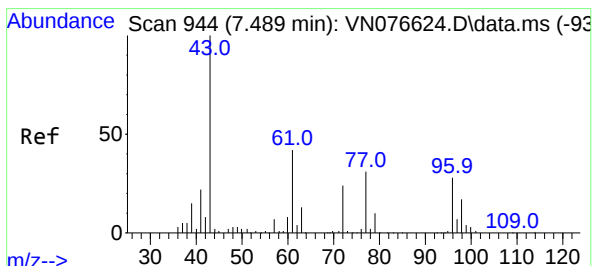
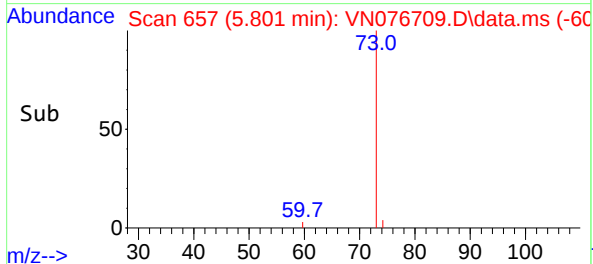
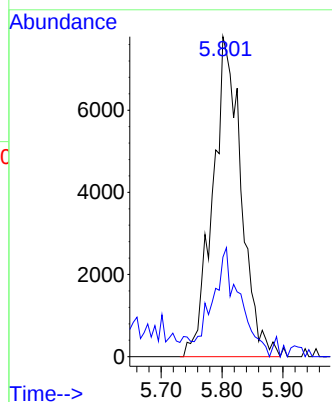
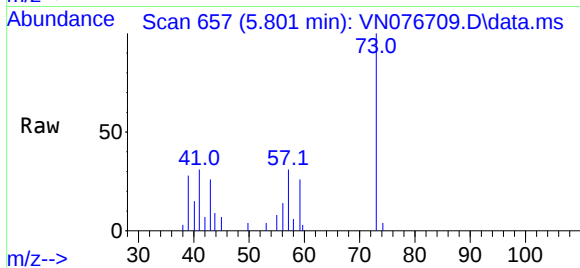
230215027-02-VOA

Tgt Ion: 73 Resp: 25310

Ion Ratio Lower Upper

73 100

57 31.1 19.0 28.4#



#25

2-Butanone

Concen: 295.149 ug/l

RT: 7.489 min Scan# 944

Delta R.T. 0.000 min

Lab File: VN076709.D

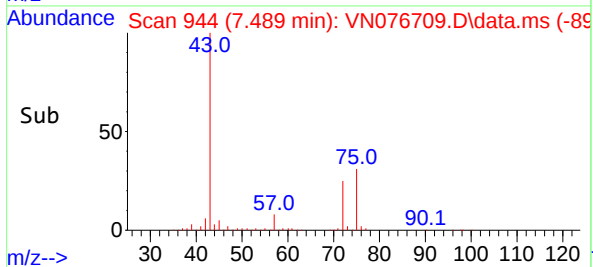
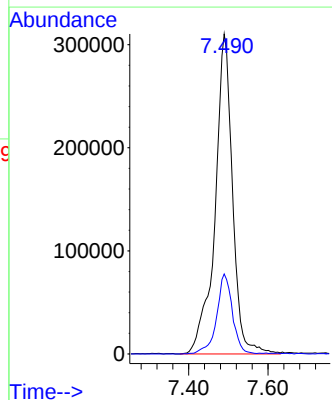
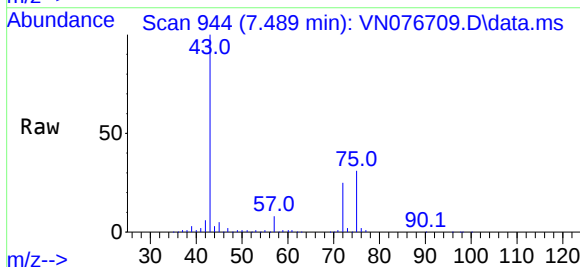
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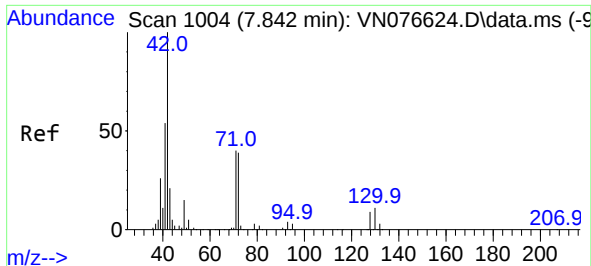
Tgt Ion: 43 Resp: 952587

Ion Ratio Lower Upper

43 100

72 25.0 19.4 29.2





#29

Tetrahydrofuran

Concen: 566.365 ug/l

RT: 7.842 min Scan# 110

Delta R.T. 0.000 min

Lab File: VN076709.D

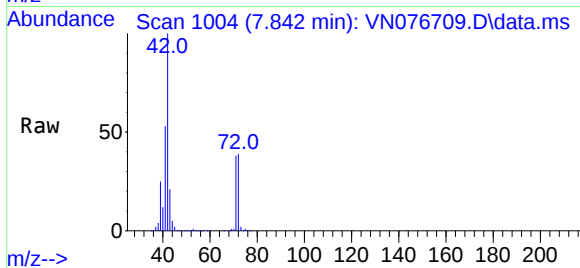
Acq: 16 Feb 2023 14:15

Instrument :

MSVOA_N

ClientSampleId :

230215027-02-VOA



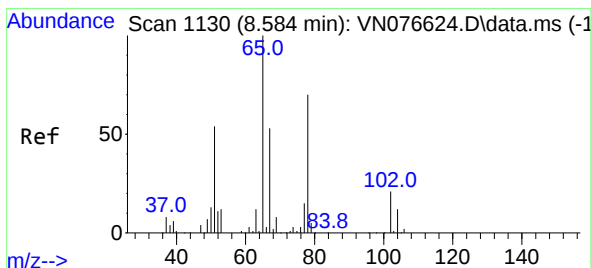
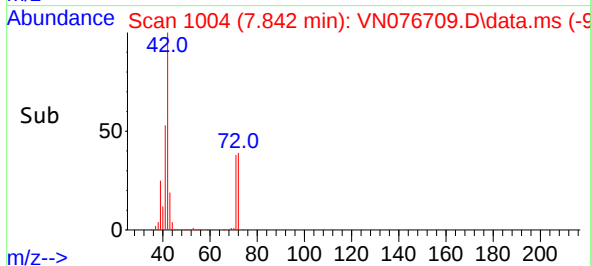
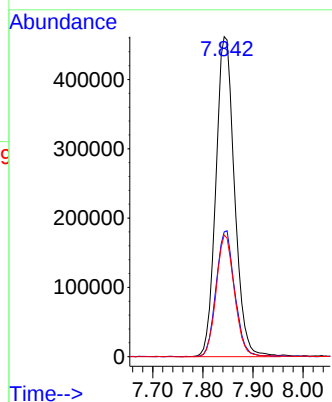
Tgt Ion: 42 Resp: 1194281

Ion Ratio Lower Upper

42 100

72 39.2 31.5 47.3

71 37.3 29.8 44.8



#33

1,2-Dichloroethane-d4

Concen: 48.456 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076709.D

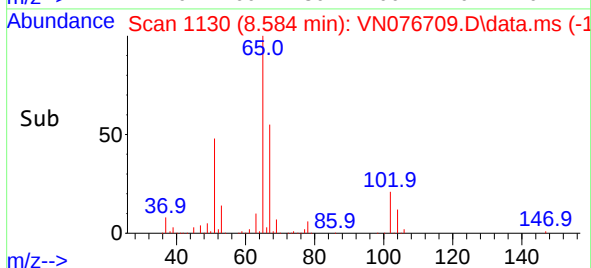
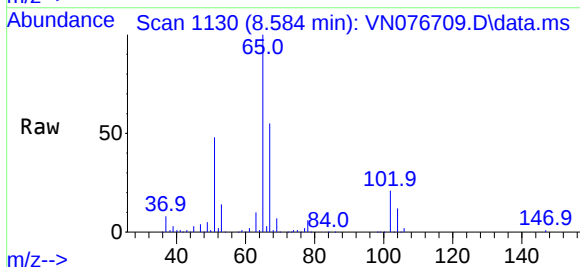
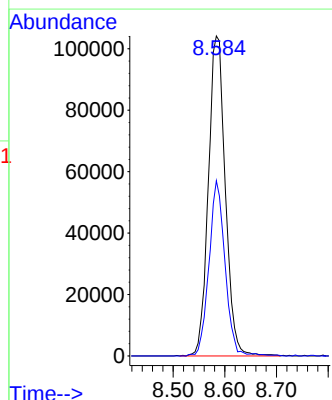
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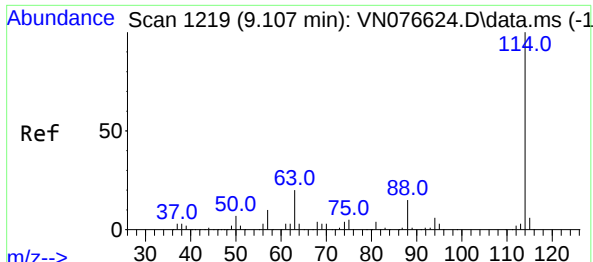
Tgt Ion: 65 Resp: 237351

Ion Ratio Lower Upper

65 100

67 51.4 0.0 105.6

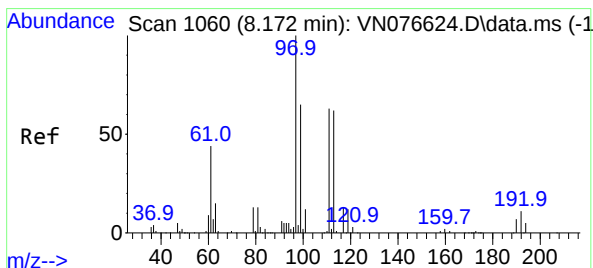
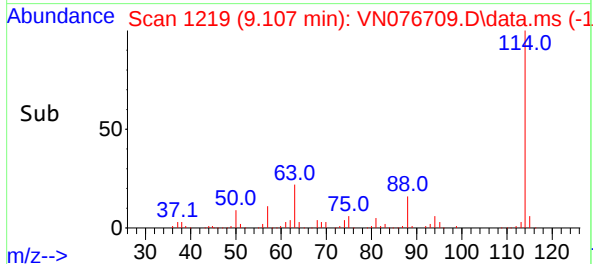
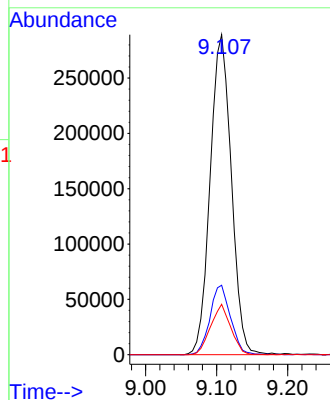
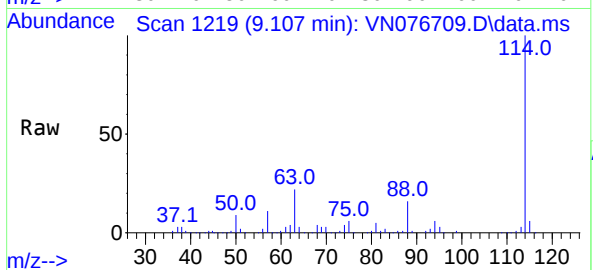




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

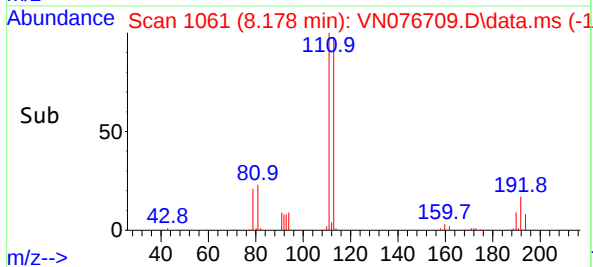
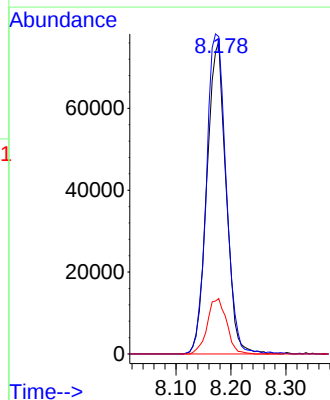
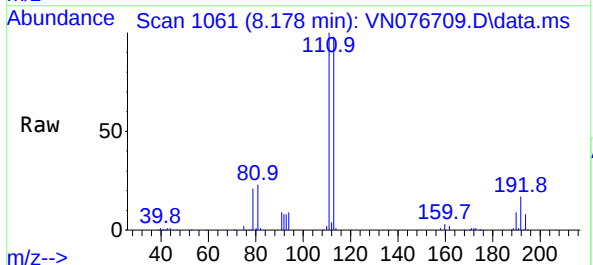
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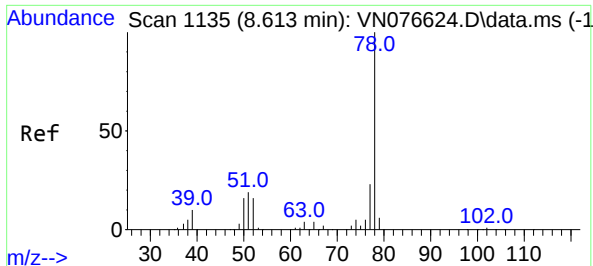
Tgt Ion:114 Resp: 598049
Ion Ratio Lower Upper
114 100
63 21.7 0.0 40.0
88 15.8 0.0 29.6



#35
Dibromofluoromethane
Concen: 47.037 ug/l
RT: 8.178 min Scan# 1061
Delta R.T. 0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion:113 Resp: 184222
Ion Ratio Lower Upper
113 100
111 105.4 83.1 124.7
192 17.9 15.6 23.4

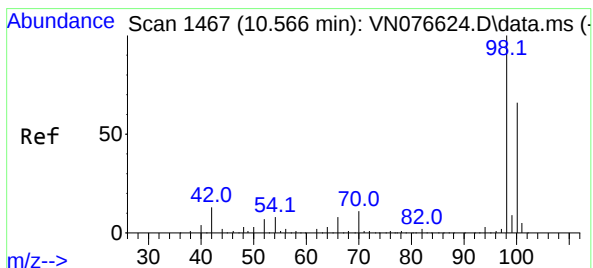
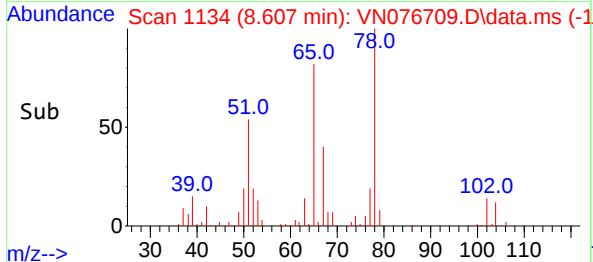
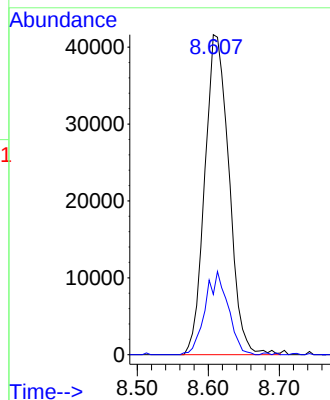
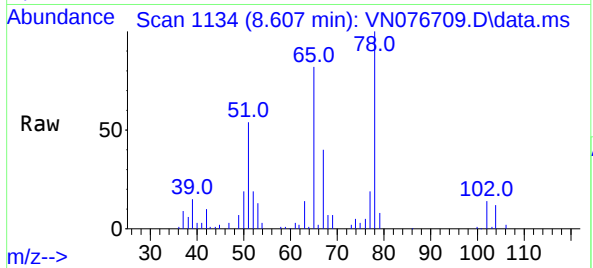




#40
Benzene
Concen: 5.685 ug/l
RT: 8.607 min Scan# 1135
Delta R.T. -0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

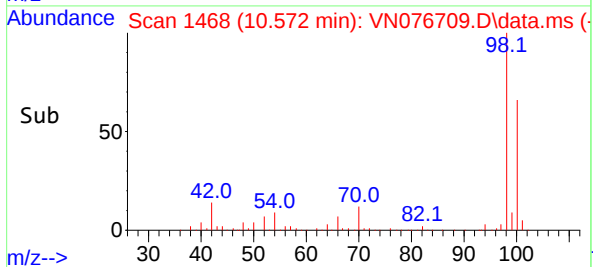
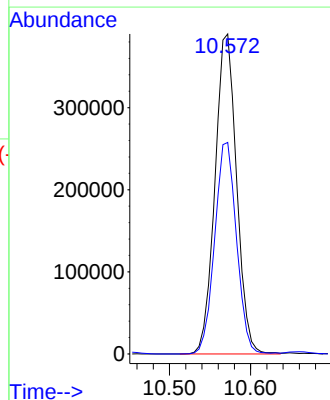
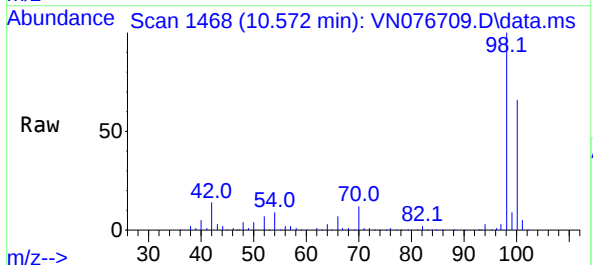
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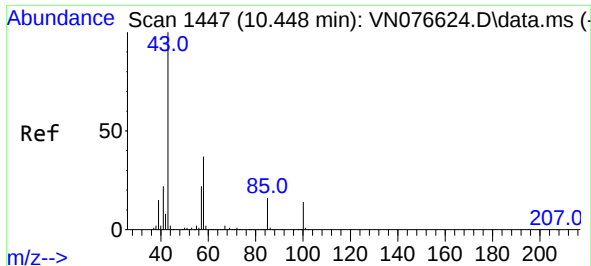
Tgt Ion: 78 Resp: 98793
Ion Ratio Lower Upper
78 100
77 18.9 18.2 27.4



#50
Toluene-d8
Concen: 49.400 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion: 98 Resp: 722539
Ion Ratio Lower Upper
98 100
100 66.5 52.9 79.3

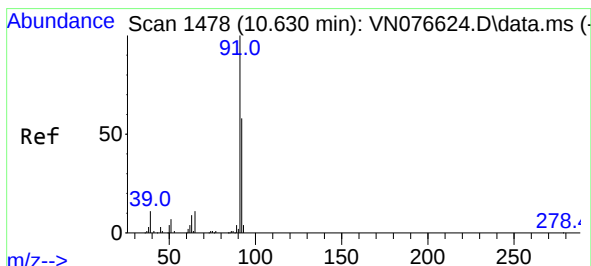
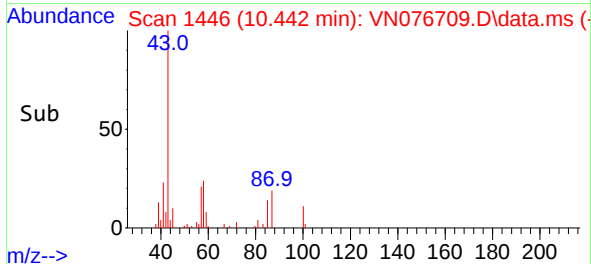
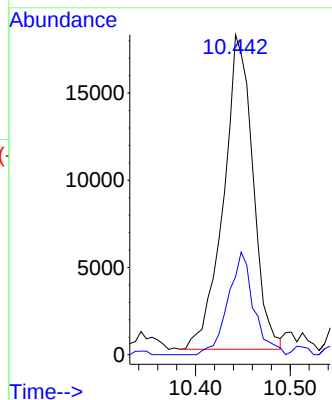
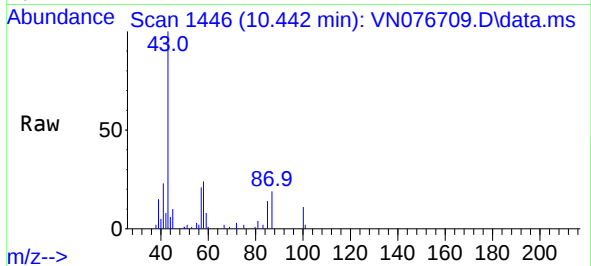




#51
4-Methyl-2-Pentanone
Concen: 6.314 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

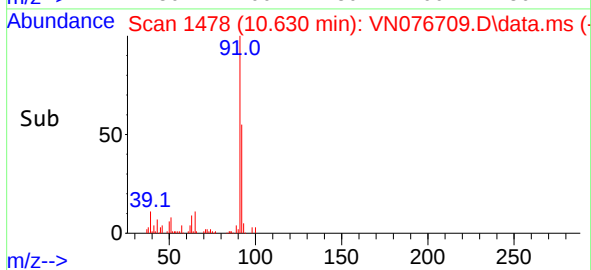
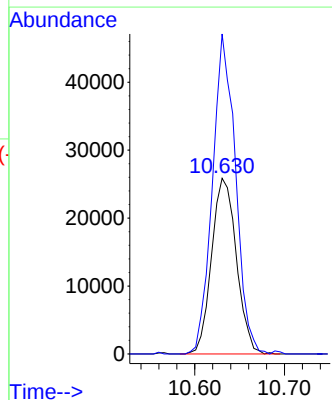
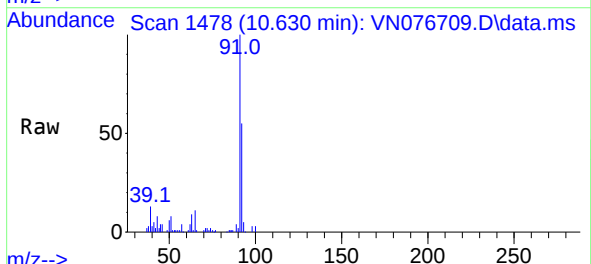
Instrument :
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ClientSampleId :
230215027-02-VOA

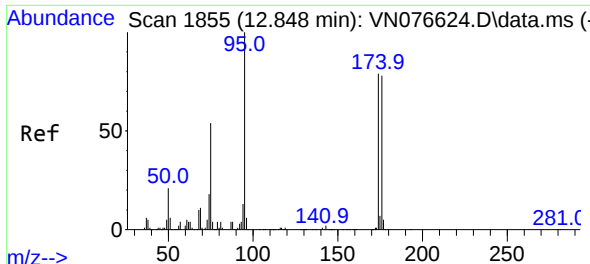
Tgt Ion: 43 Resp: 38918
Ion Ratio Lower Upper
43 100
58 28.5 29.5 44.3#



#52
Toluene
Concen: 4.725 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion: 92 Resp: 49575
Ion Ratio Lower Upper
92 100
91 169.9 138.0 207.0

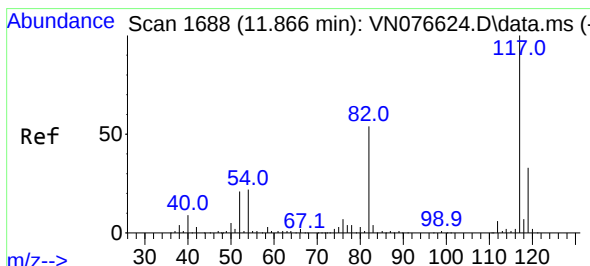
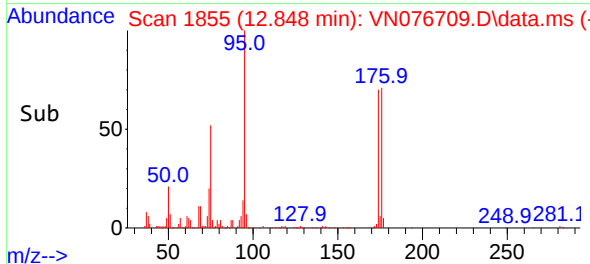
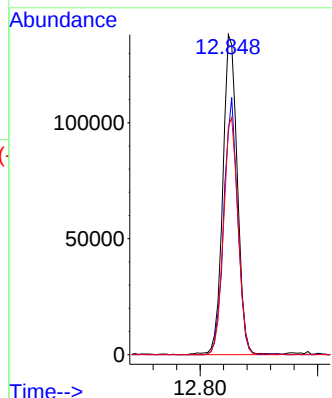
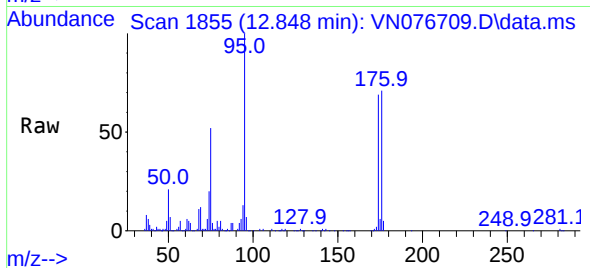




#62
4-Bromofluorobenzene
Concen: 48.929 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

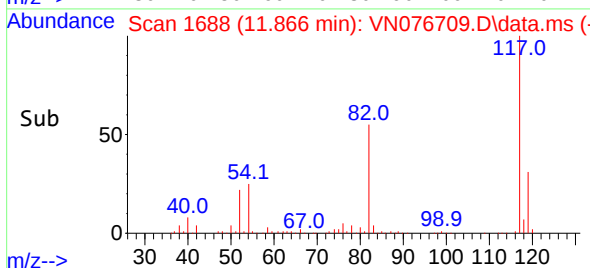
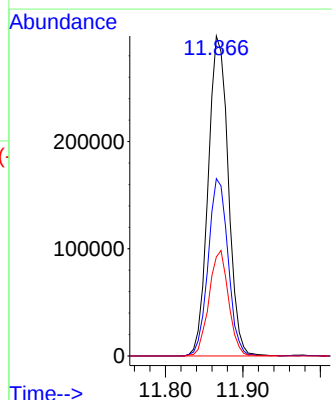
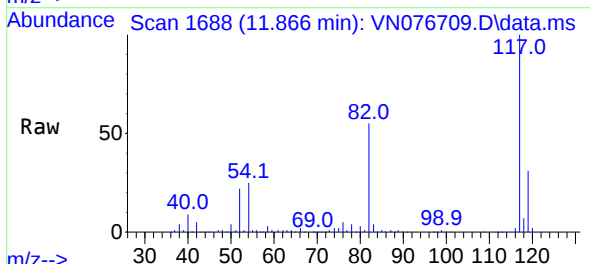
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

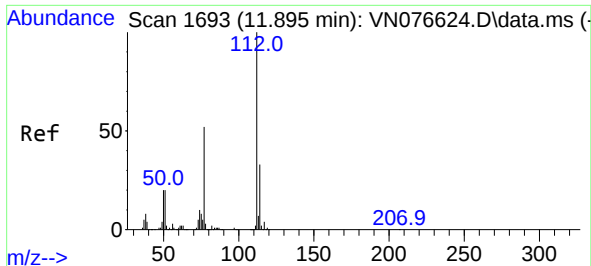
Tgt Ion: 95 Resp: 237029
Ion Ratio Lower Upper
95 100
174 76.2 0.0 169.2
176 74.3 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

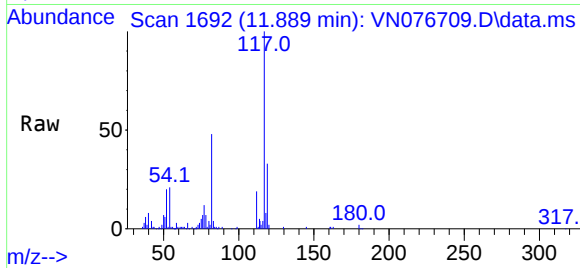
Tgt Ion: 117 Resp: 537344
Ion Ratio Lower Upper
117 100
82 55.4 43.4 65.2
119 30.9 26.1 39.1



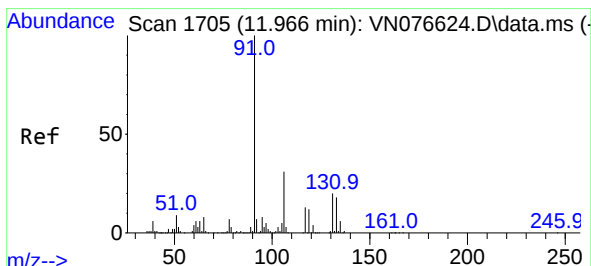
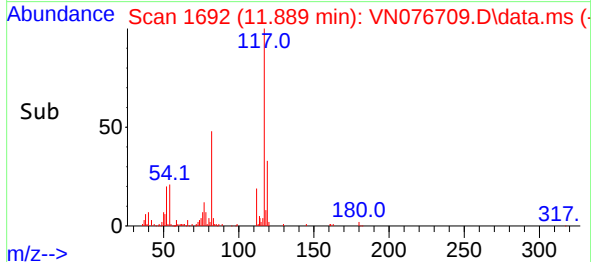
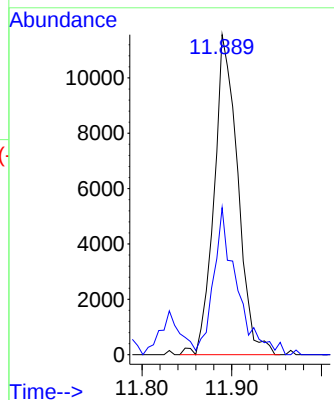


#65
Chlorobenzene
Concen: 1.859 ug/l
RT: 11.889 min Scan# 1692
Delta R.T. -0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

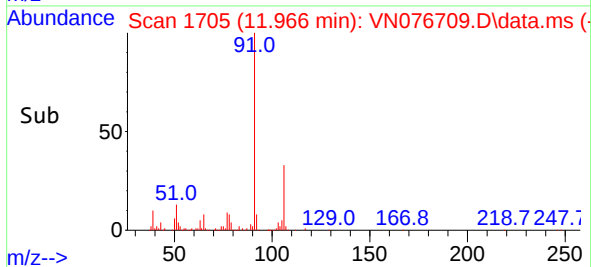
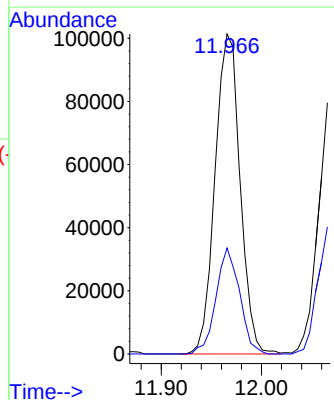
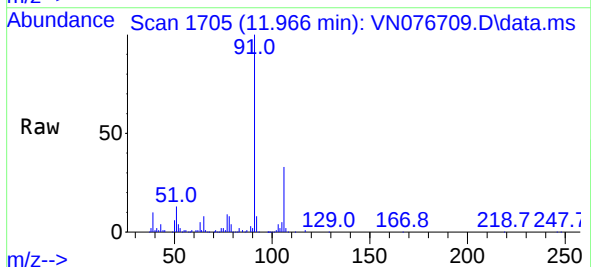


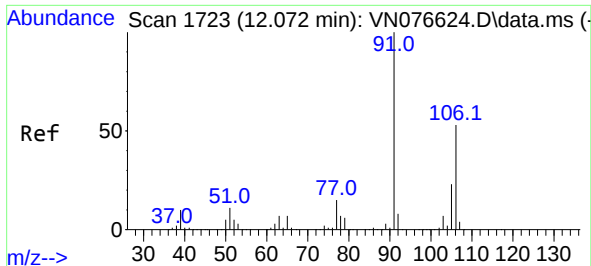
Tgt Ion:112 Resp: 21167
Ion Ratio Lower Upper
112 100
114 42.1 26.4 39.6#



#67
Ethyl Benzene
Concen: 9.065 ug/l
RT: 11.966 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion: 91 Resp: 175873
Ion Ratio Lower Upper
91 100
106 33.1 25.1 37.7

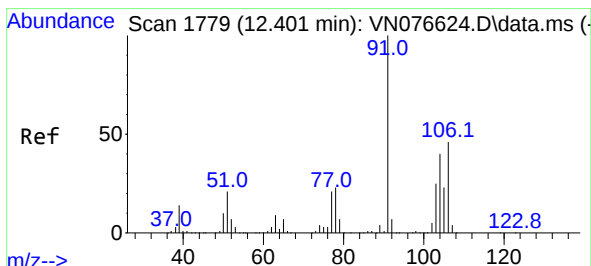
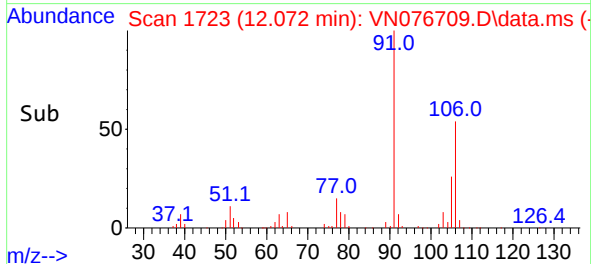
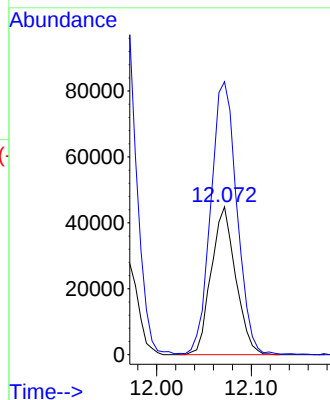
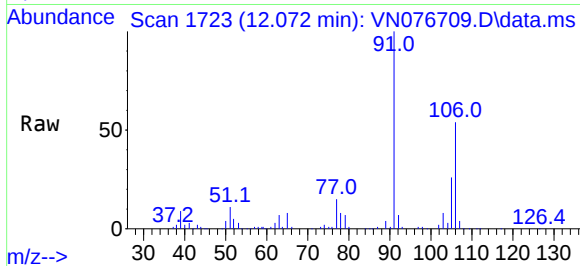




#68
m/p-Xylenes
Concen: 10.759 ug/l
RT: 12.072 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

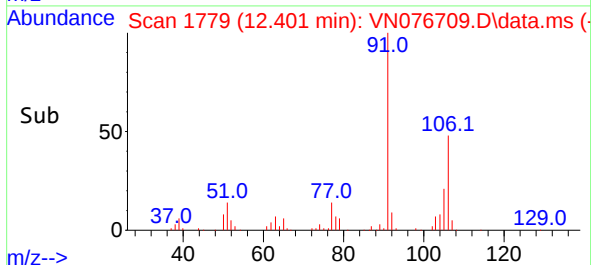
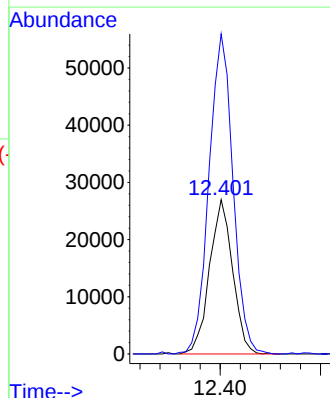
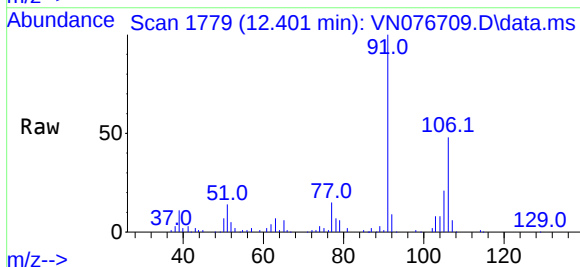
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

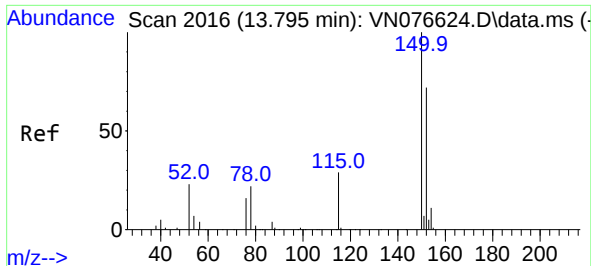
Tgt Ion:106 Resp: 80459
Ion Ratio Lower Upper
106 100
91 196.3 154.7 232.1



#69
o-Xylene
Concen: 5.916 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion:106 Resp: 43150
Ion Ratio Lower Upper
106 100
91 215.5 105.8 317.4

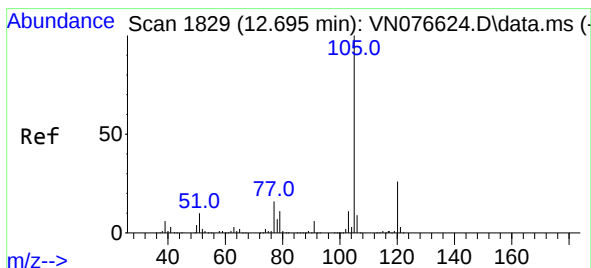
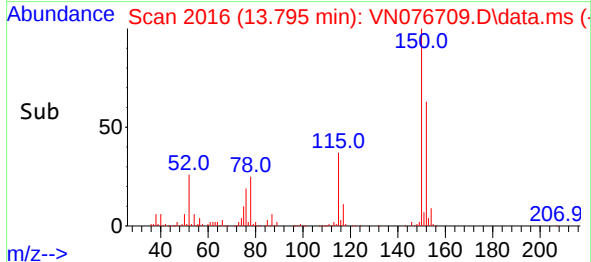
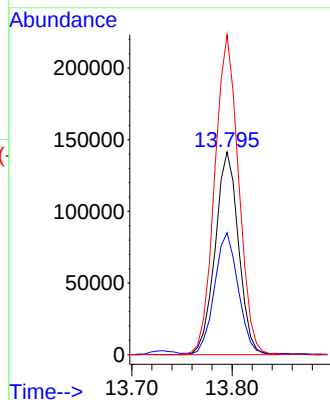
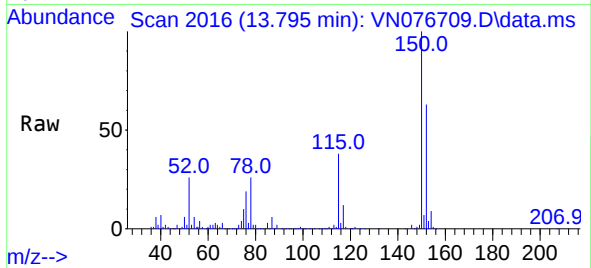




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

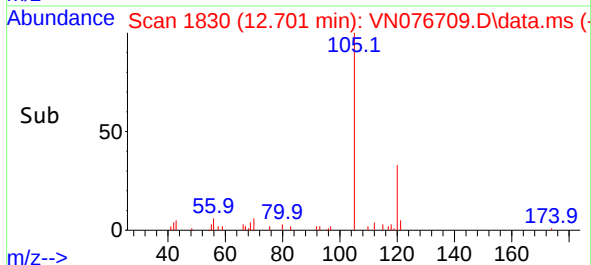
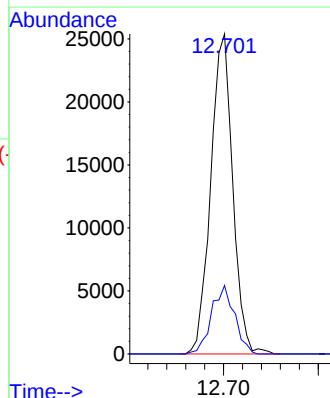
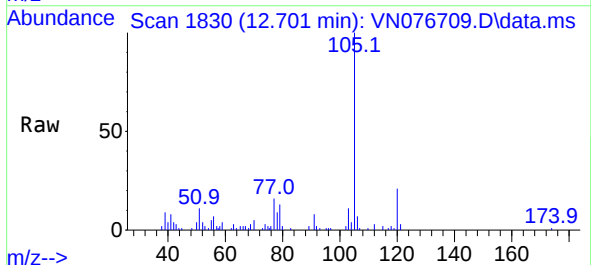
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

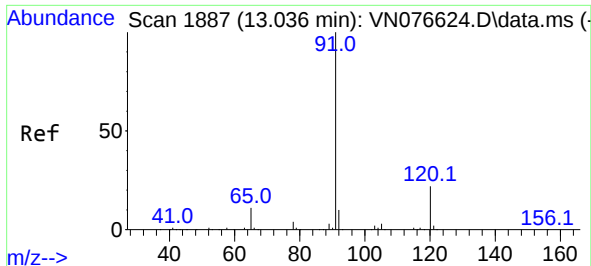
Tgt Ion:152 Resp: 228861
Ion Ratio Lower Upper
152 100
115 62.3 29.3 87.9
150 161.6 0.0 349.8



#73
Isopropylbenzene
Concen: 2.438 ug/l
RT: 12.701 min Scan# 1830
Delta R.T. 0.006 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion:105 Resp: 40890
Ion Ratio Lower Upper
105 100
120 22.5 13.7 41.0

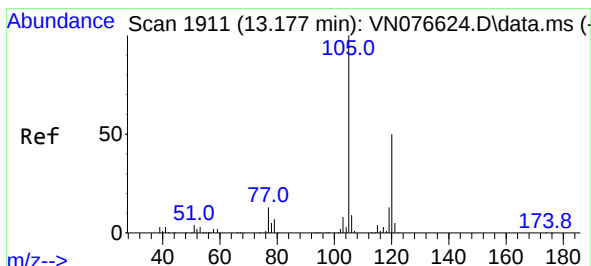
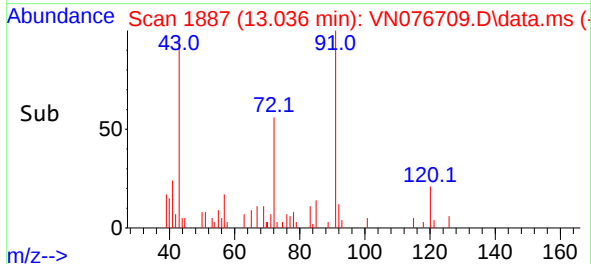
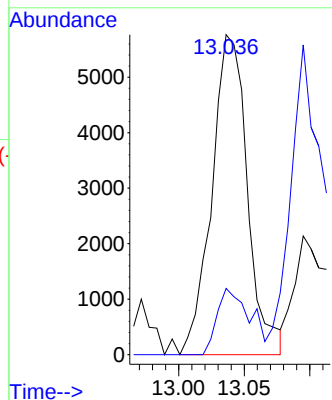
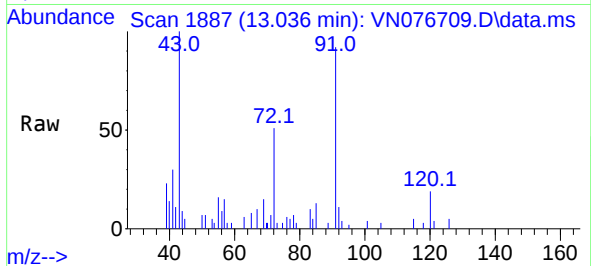




#78
n-propylbenzene
Concen: 0.553 ug/l
RT: 13.036 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

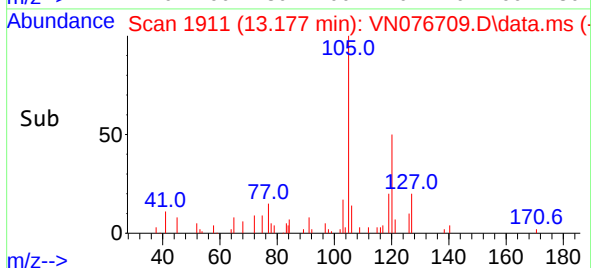
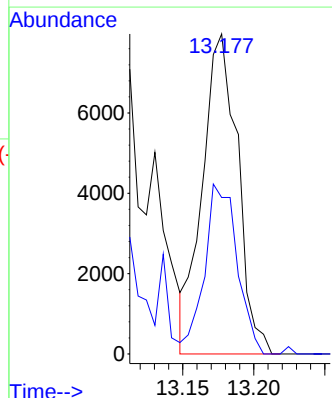
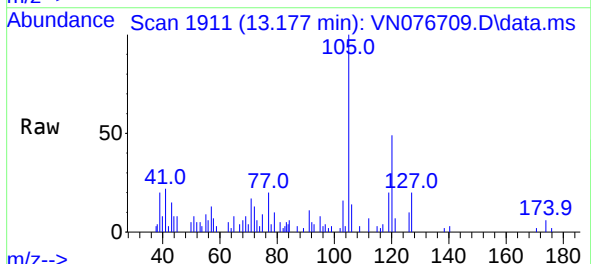
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

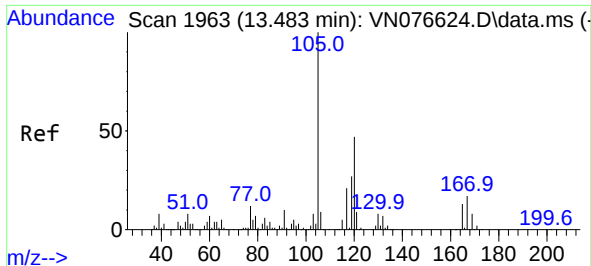
Tgt Ion: 91 Resp: 10888
Ion Ratio Lower Upper
91 100
120 19.1 11.5 34.5



#80
1,3,5-Trimethylbenzene
Concen: 0.994 ug/l
RT: 13.177 min Scan# 1911
Delta R.T. 0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion: 105 Resp: 13782
Ion Ratio Lower Upper
105 100
120 48.8 25.1 75.4

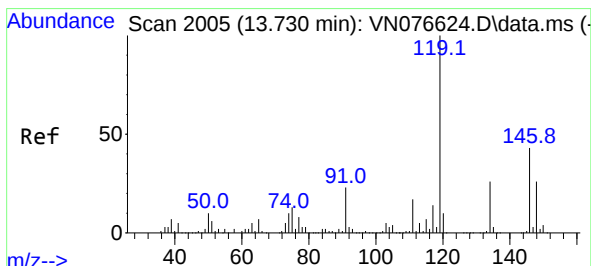
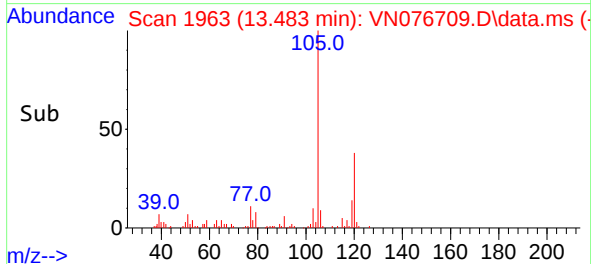
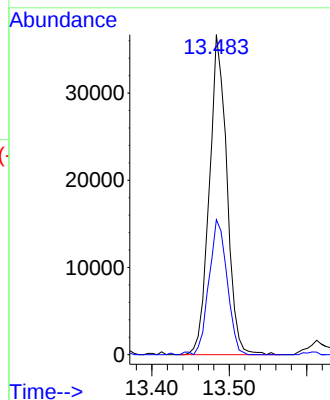
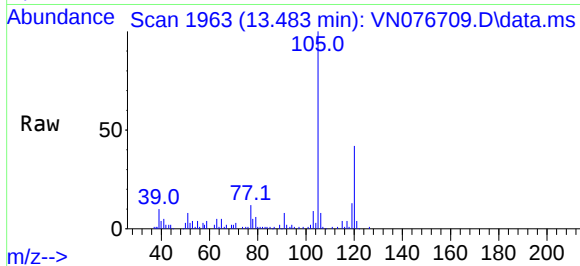




#84
1,2,4-Trimethylbenzene
Concen: 4.183 ug/l
RT: 13.483 min Scan# 1963
Delta R.T. 0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

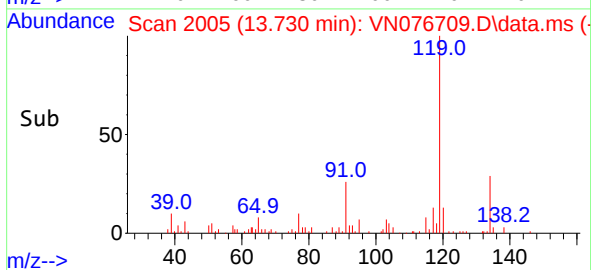
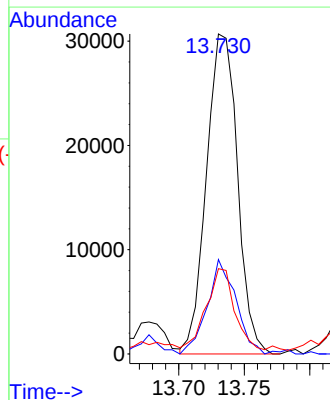
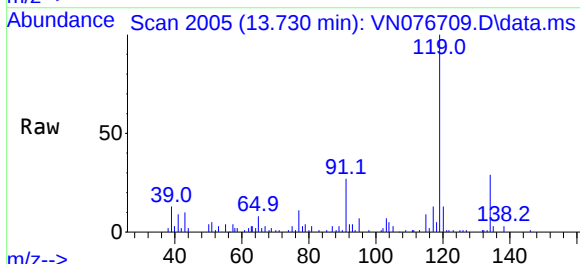
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

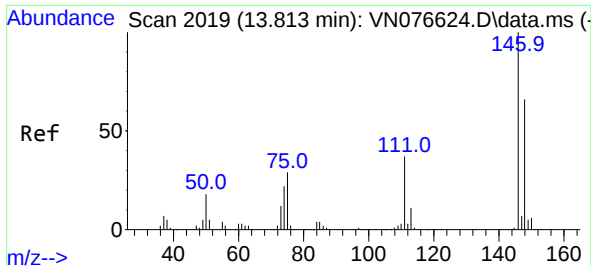
Tgt Ion:105 Resp: 57790
Ion Ratio Lower Upper
105 100
120 43.5 23.0 69.0



#86
p-Isopropyltoluene
Concen: 3.615 ug/l
RT: 13.730 min Scan# 2005
Delta R.T. 0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion:119 Resp: 50547
Ion Ratio Lower Upper
119 100
134 27.5 13.4 40.1
91 22.7 11.7 35.0

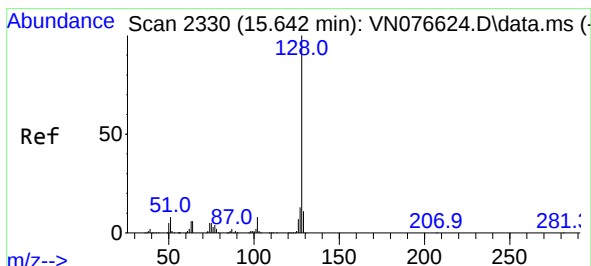
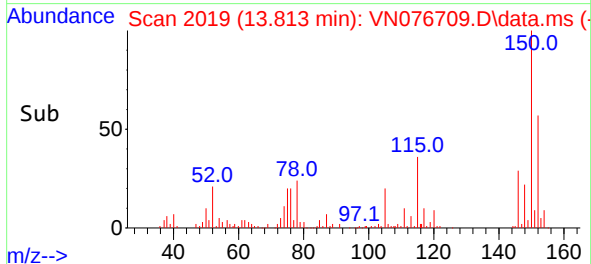
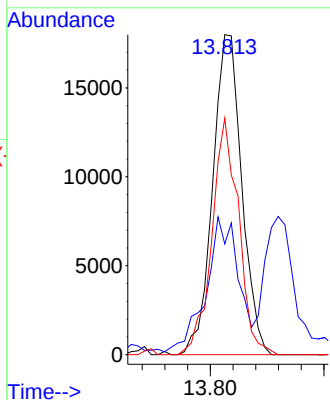
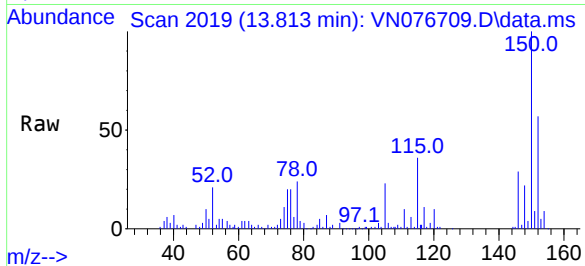




#88
1,4-Dichlorobenzene
Concen: 4.064 ug/l
RT: 13.813 min Scan# 2019
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

Tgt Ion:146 Resp: 32016
Ion Ratio Lower Upper
146 100
111 48.8 19.4 58.1
148 67.8 32.7 98.1



#95
Naphthalene
Concen: 40.612 ug/l
RT: 15.642 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN076709.D
Acq: 16 Feb 2023 14:15

Tgt Ion:128 Resp: 498596
Ion Ratio Lower Upper
128 100
127 13.6 10.6 16.0
129 10.8 8.6 13.0

