

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110923\
 Data File : VN080028.D
 Acq On : 09 Nov 2023 17:46
 Operator : JC\MD
 Sample : 05102-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 67S-IDW-01

Quant Time: Nov 11 03:47:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

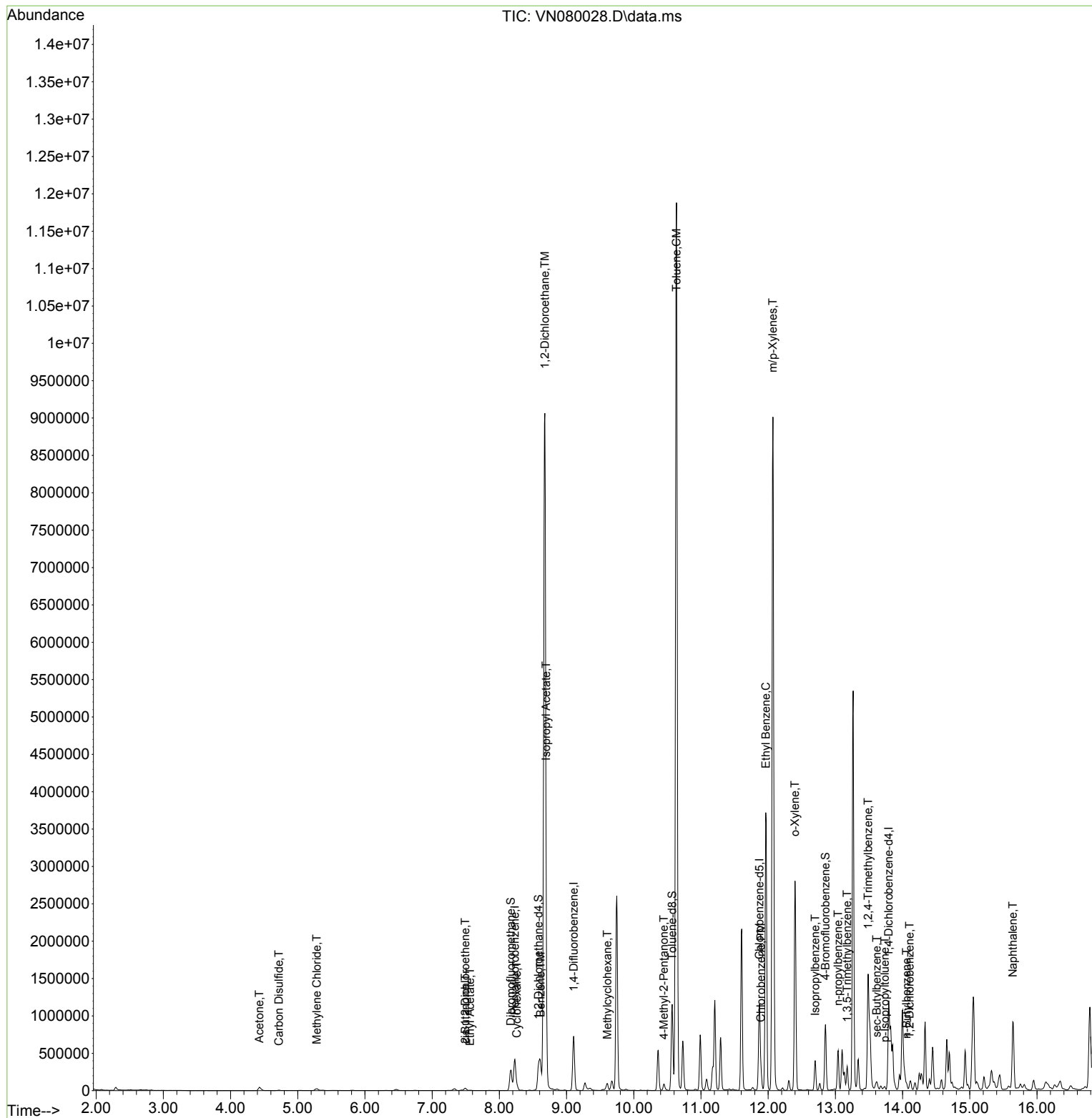
Internal Standards						
1) Pentafluorobenzene	8.229	168	281440	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	599567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	653689	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	303567	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	242577	56.573	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.140%			
35) Dibromofluoromethane	8.171	113	205232	48.364	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.720%			
50) Toluene-d8	10.570	98	777534	49.772	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.540%			
62) 4-Bromofluorobenzene	12.853	95	309909	59.817	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 119.640%			
Target Compounds					Qvalue	
16) Acetone	4.430	43	80772	53.628	ug/l	99
17) Carbon Disulfide	4.718	76	9544	1.092	ug/l	99
20) Methylene Chloride	5.283	84	19462	5.121	ug/l #	84
25) 2-Butanone	7.494	43	23219	10.528	ug/l #	77
27) cis-1,2-Dichloroethene	7.494	96	10707	2.649	ug/l	93
31) Cyclohexane	8.259	56	36810	6.497	ug/l	87
37) Ethyl Acetate	7.565	43	6182	1.113	ug/l	95
39) Methylcyclohexane	9.606	83	34198	5.997	ug/l #	84
40) Benzene	8.612	78	357194	19.683	ug/l	100
42) 1,2-Dichloroethane	8.677	62	8458026	1334.274	ug/l	98
43) Isopropyl Acetate	8.694	43	300123	30.798	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	63903	11.648	ug/l #	84
52) Toluene	10.635	92	5264397	489.318	ug/l	99
65) Chlorobenzene	11.894	112	111683	7.876	ug/l	100
67) Ethyl Benzene	11.965	91	2720886	110.136	ug/l	97
68) m/p-Xylenes	12.070	106	2731678	296.827	ug/l	93
69) o-Xylene	12.400	106	753463	85.022	ug/l	92
73) Isopropylbenzene	12.700	105	245351	10.649	ug/l	100
78) n-propylbenzene	13.041	91	416130	15.773	ug/l	97
80) 1,3,5-Trimethylbenzene	13.176	105	168736	9.413	ug/l	99
84) 1,2,4-Trimethylbenzene	13.488	105	807161	45.769	ug/l	99
85) sec-Butylbenzene	13.617	105	49164	2.419	ug/l #	75
86) p-Isopropyltoluene	13.735	119	20623	1.244	ug/l	97
89) n-Butylbenzene	14.059	91	44783	3.137	ug/l #	82
91) 1,2-Dichlorobenzene	14.106	146	27232	2.749	ug/l	97
95) Naphthalene	15.641	128	840008	52.591	ug/l	100

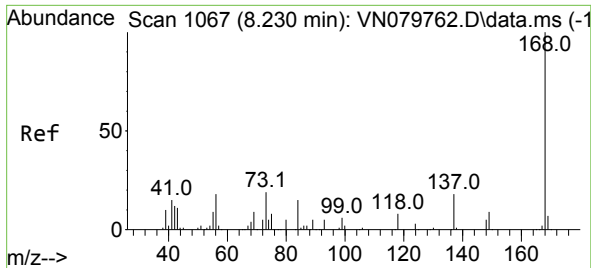
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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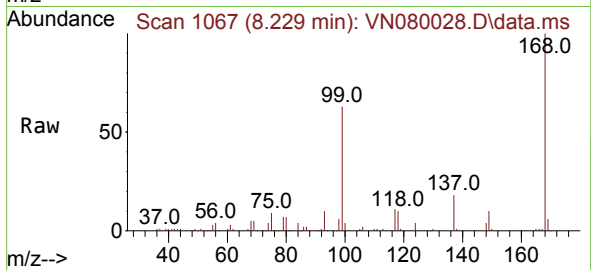
Quant Time: Nov 11 03:47:48 2023
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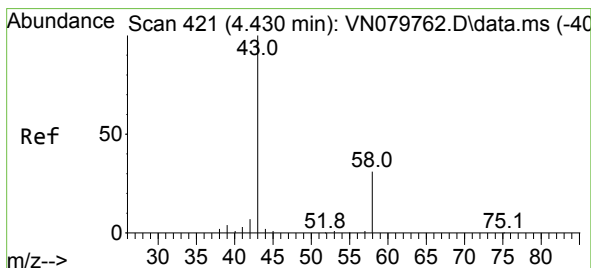
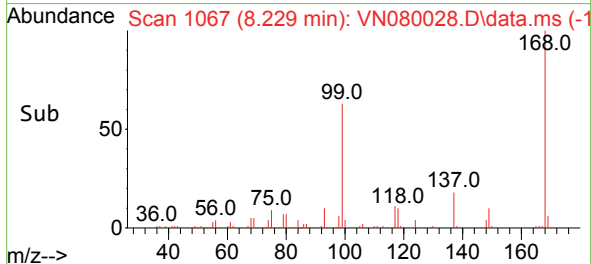
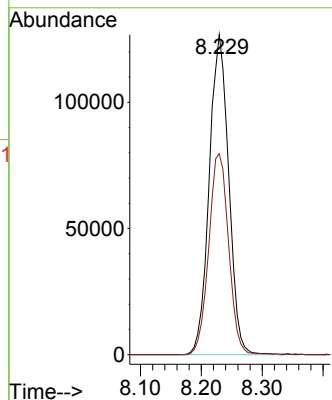


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. 0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Instrument :
MSVOA_N
ClientSampleId :
67S-IDW-01

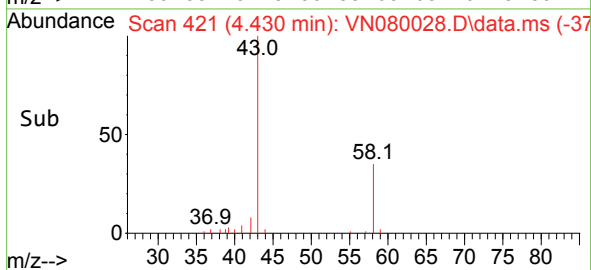
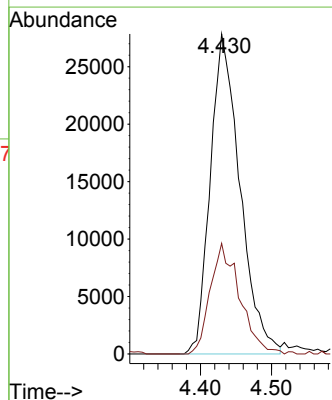
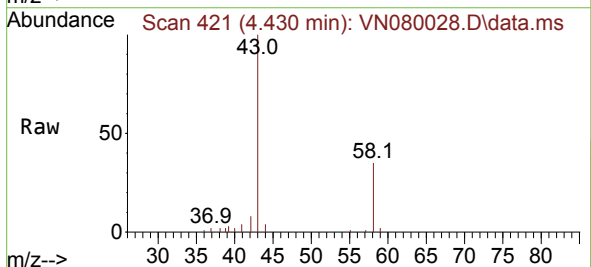


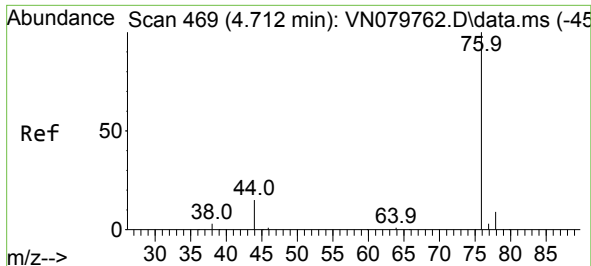
Tgt Ion:168 Resp: 281440
Ion Ratio Lower Upper
168 100
99 62.8 53.0 79.6



#16
Acetone
Concen: 53.628 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion: 43 Resp: 80772
Ion Ratio Lower Upper
43 100
58 34.5 28.0 42.0





#17

Carbon Disulfide

Concen: 1.092 ug/l

RT: 4.718 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN080028.D

Acq: 09 Nov 2023 17:46

Instrument :

MSVOA_N

ClientSampleId :

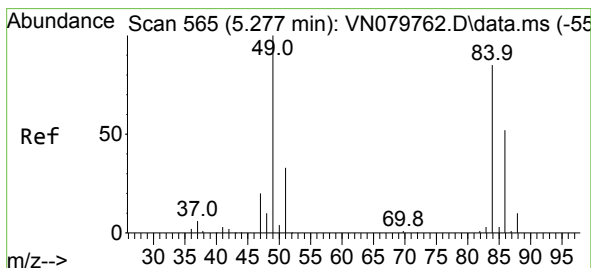
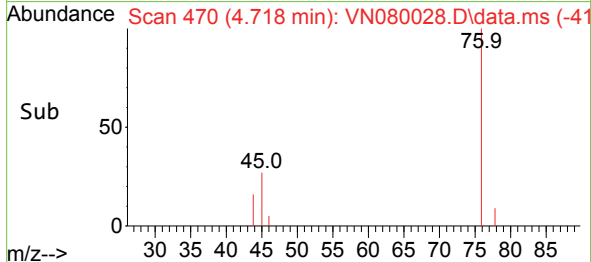
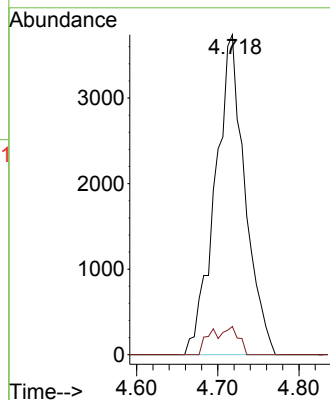
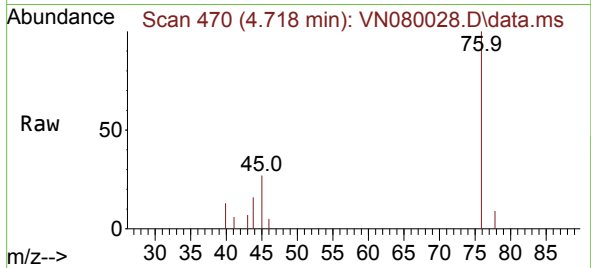
67S-IDW-01

Tgt Ion: 76 Resp: 9544

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



#20

Methylene Chloride

Concen: 5.121 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.012 min

Lab File: VN080028.D

Acq: 09 Nov 2023 17:46

Tgt Ion: 84 Resp: 19462

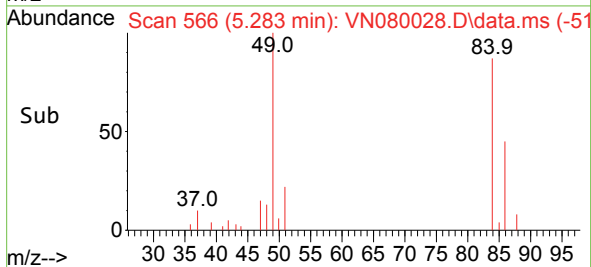
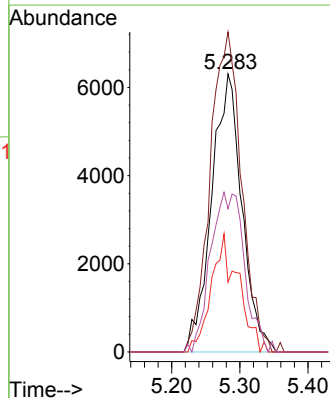
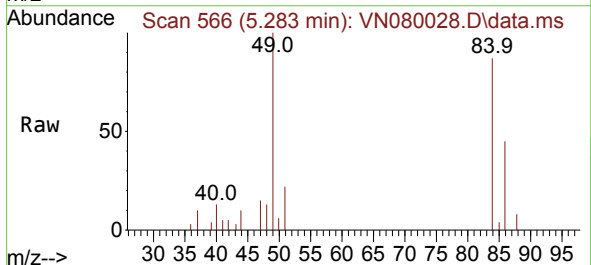
Ion Ratio Lower Upper

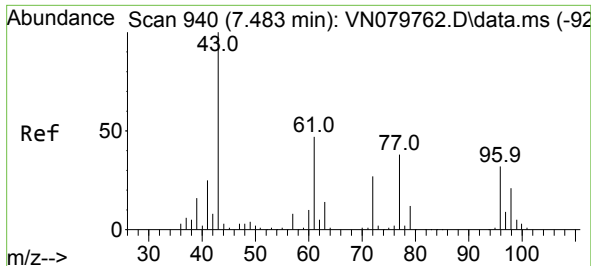
84 100

49 115.1 79.7 119.5

51 25.1 25.2 37.8#

86 51.5 53.3 79.9#

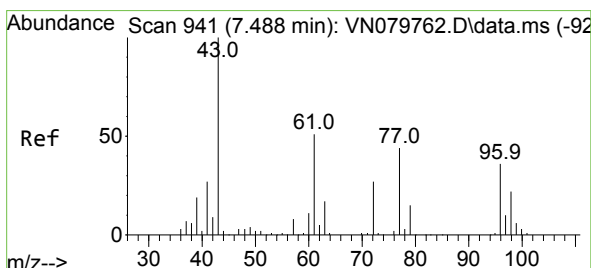
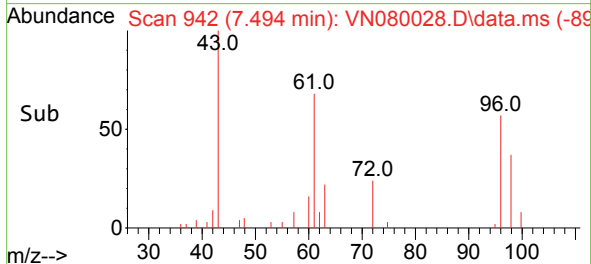
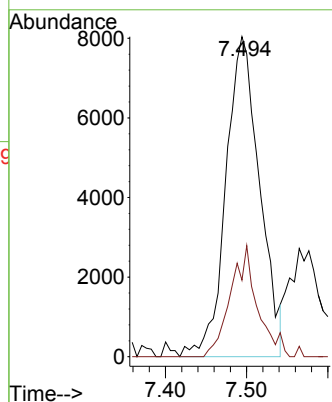
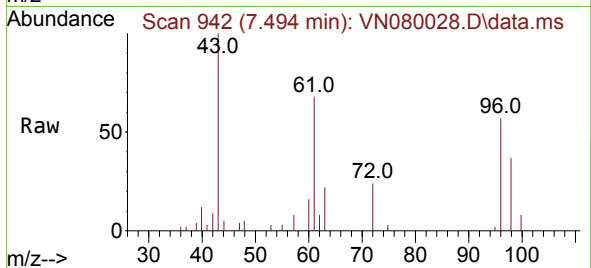




#25
2-Butanone
Concen: 10.528 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

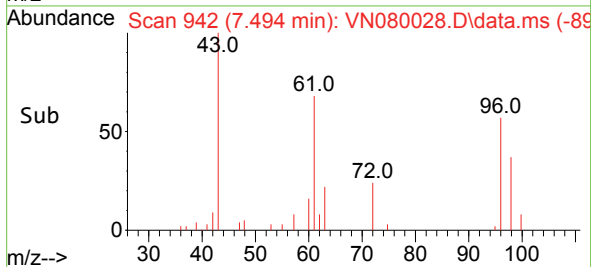
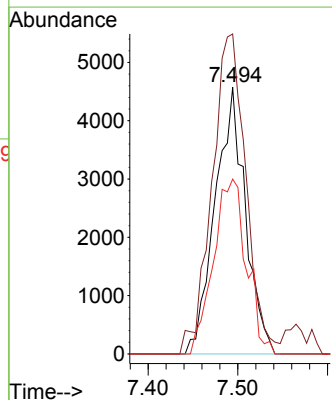
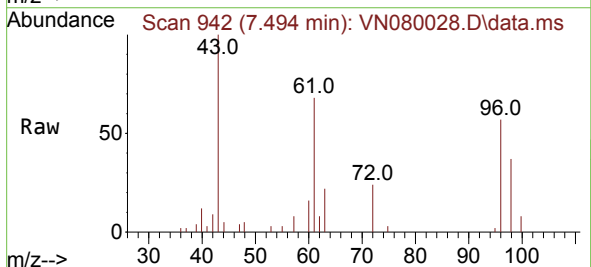
Instrument :
MSVOA_N
ClientSampleId :
67S-IDW-01

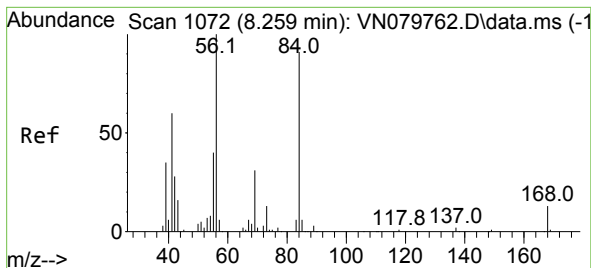
Tgt Ion: 43 Resp: 23219
Ion Ratio Lower Upper
43 100
72 23.9 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 2.649 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion: 96 Resp: 10707
Ion Ratio Lower Upper
96 100
61 134.7 0.0 255.2
98 71.7 0.0 128.8





#31

Cyclohexane

Concen: 6.497 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. -0.000 min

Lab File: VN080028.D

Acq: 09 Nov 2023 17:46

Instrument :

MSVOA_N

ClientSampleId :

67S-IDW-01

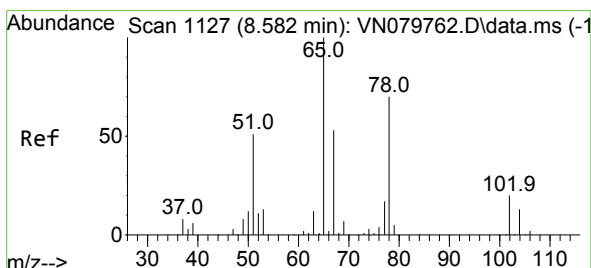
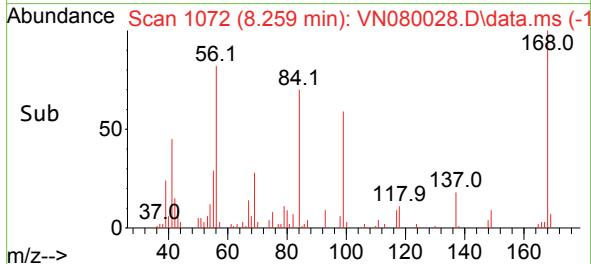
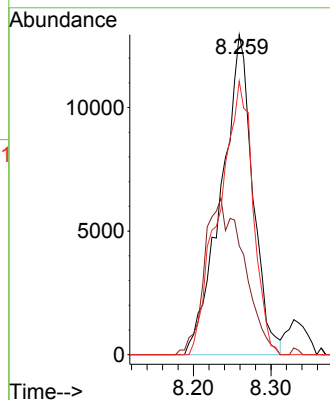
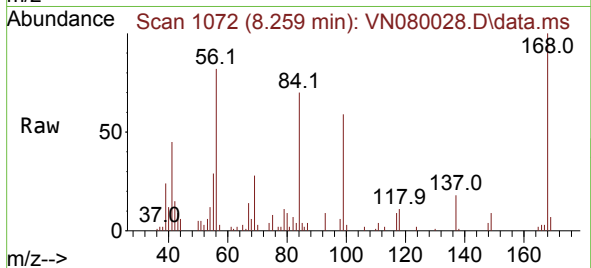
Tgt Ion: 56 Resp: 36810

Ion Ratio Lower Upper

56 100

69 34.0 26.8 40.2

84 85.4 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 56.573 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080028.D

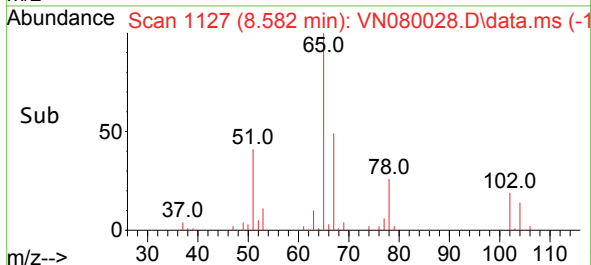
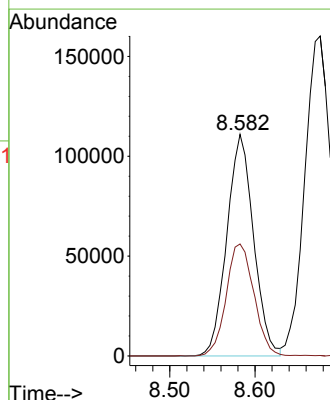
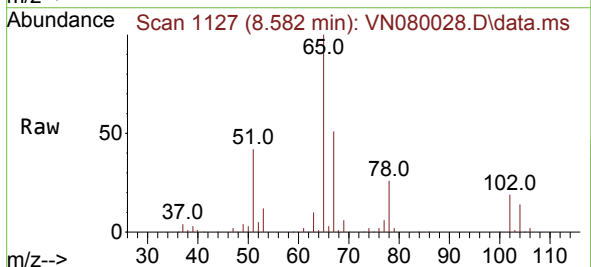
Acq: 09 Nov 2023 17:46

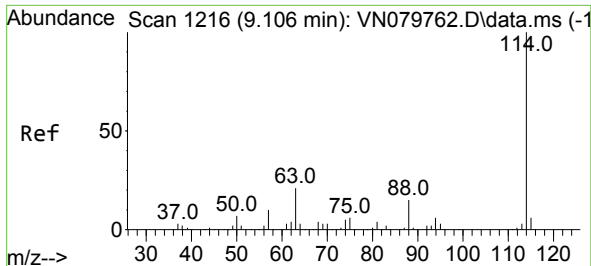
Tgt Ion: 65 Resp: 242577

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.6

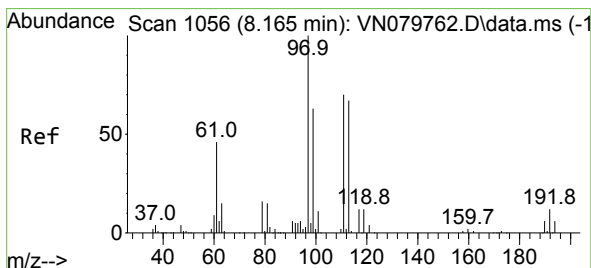
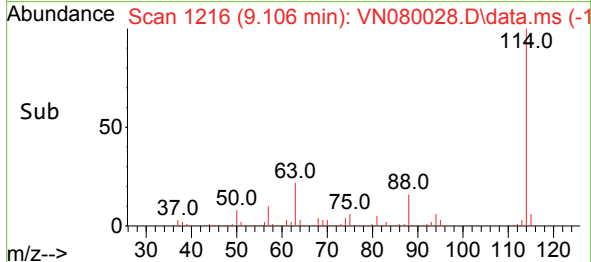
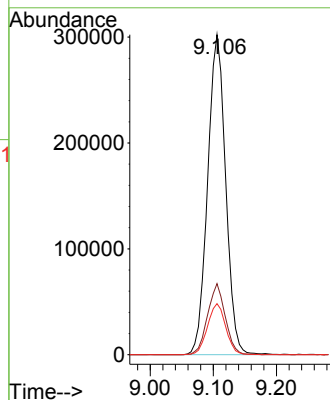
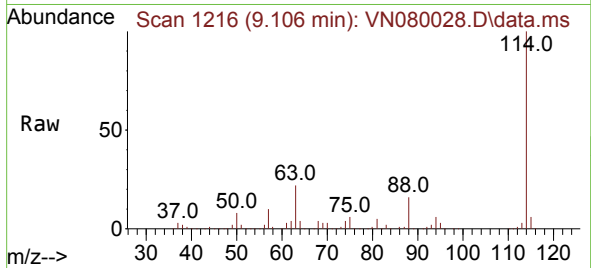




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

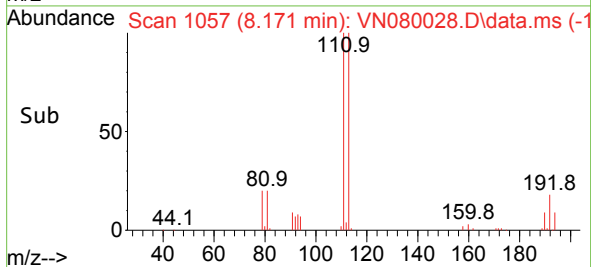
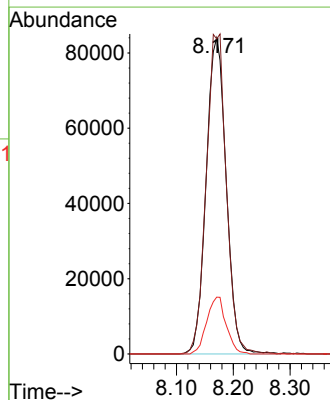
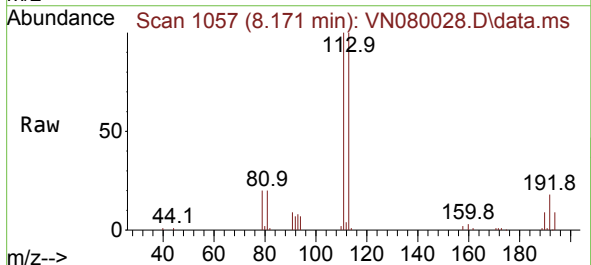
Instrument :
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ClientSampleId :
67S-IDW-01

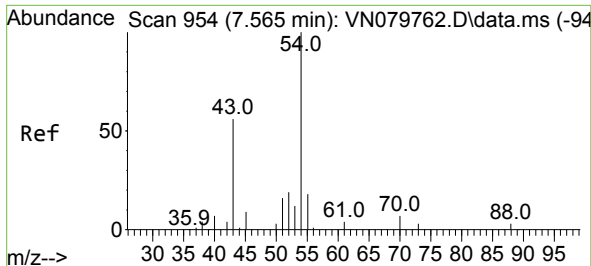
Tgt Ion:114 Resp: 599567
Ion Ratio Lower Upper
114 100
63 22.2 0.0 36.4
88 16.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.364 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion:113 Resp: 205232
Ion Ratio Lower Upper
113 100
111 101.6 82.6 123.8
192 17.4 12.7 19.1

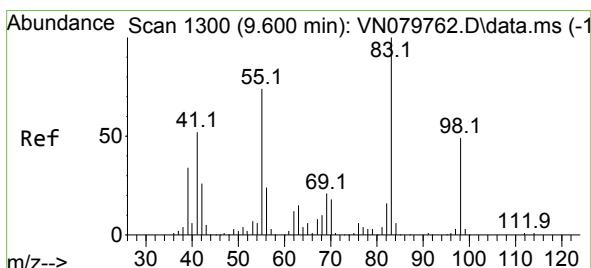
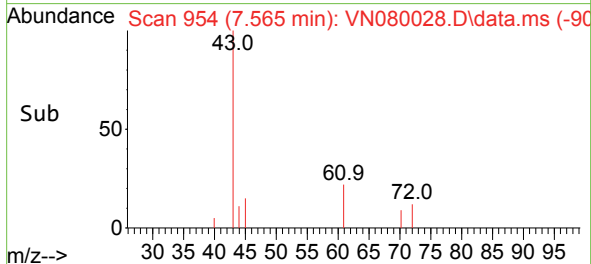
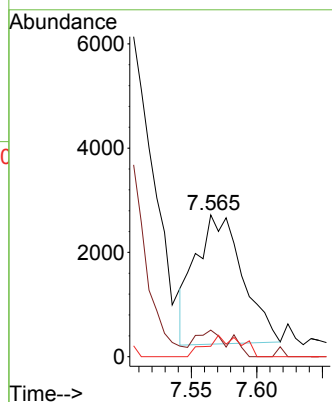
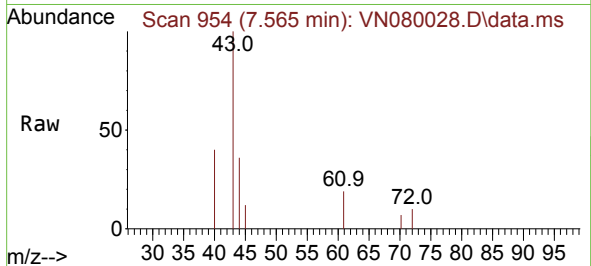




#37
Ethyl Acetate
Concen: 1.113 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

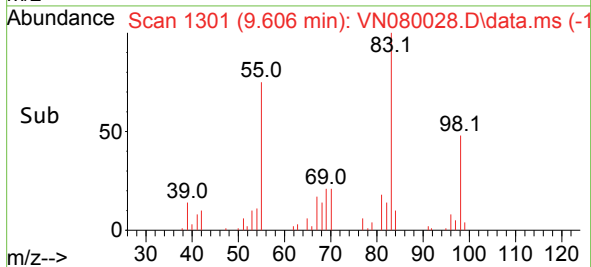
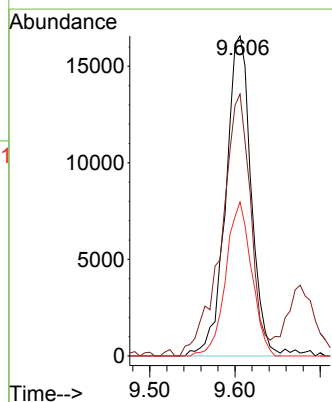
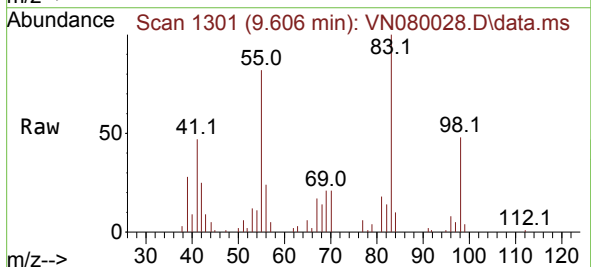
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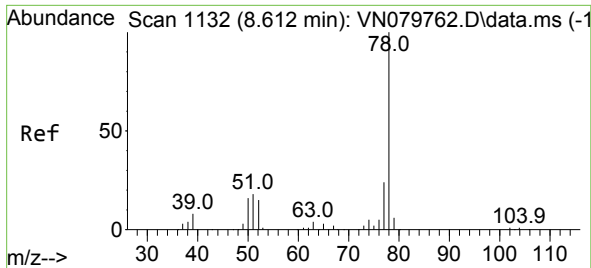
Tgt Ion:	43	Resp:	6182
Ion	Ratio	Lower	Upper
43	100		
61	14.3	13.2	19.8
70	12.1	11.3	16.9



#39
Methylcyclohexane
Concen: 5.997 ug/l
RT: 9.606 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion:	83	Resp:	34198
Ion	Ratio	Lower	Upper
83	100		
55	81.9	49.1	73.7#
98	48.1	40.6	61.0

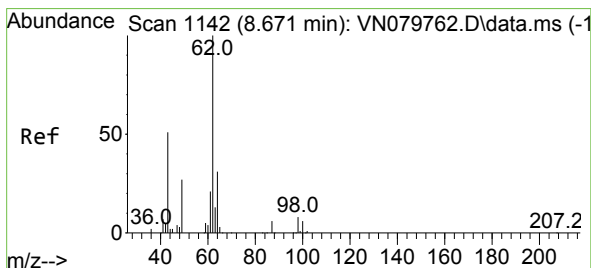
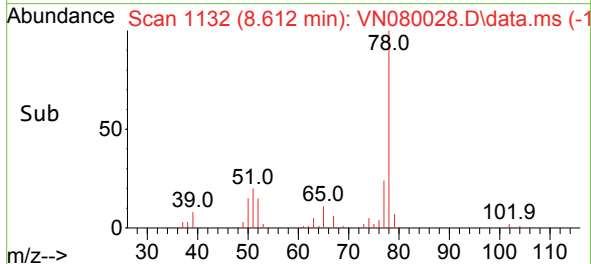
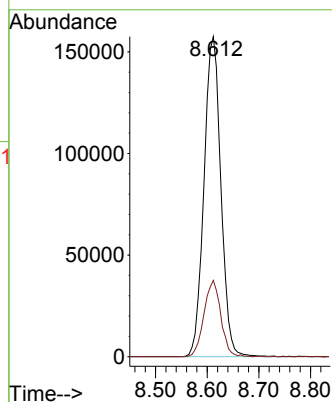
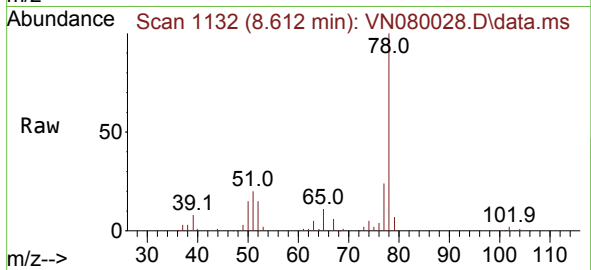




#40
Benzene
Concen: 19.683 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

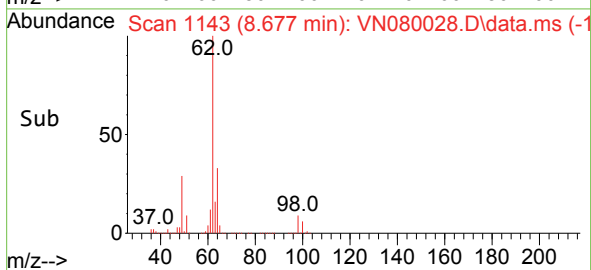
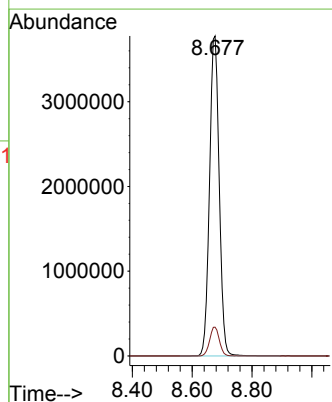
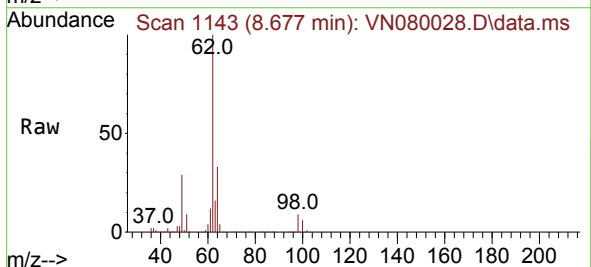
Instrument :
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ClientSampleId :
67S-IDW-01

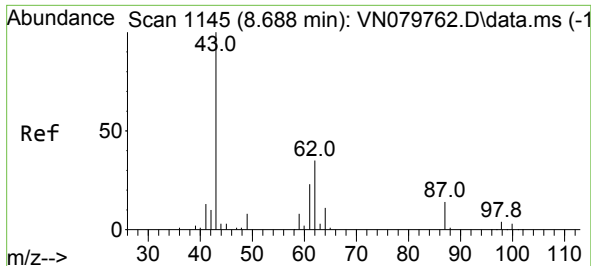
Tgt Ion: 78 Resp: 357194
Ion Ratio Lower Upper
78 100
77 23.9 19.0 28.6



#42
1,2-Dichloroethane
Concen: 1334.274 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion: 62 Resp: 8458026
Ion Ratio Lower Upper
62 100
98 9.1 0.0 19.8

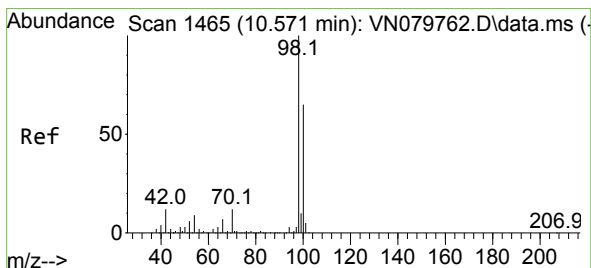
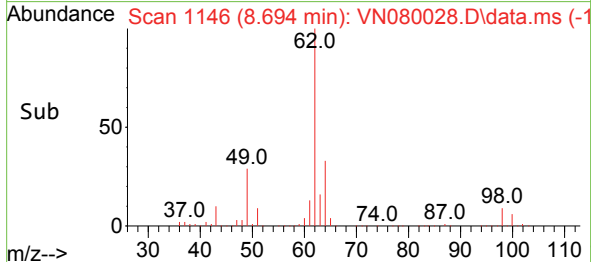
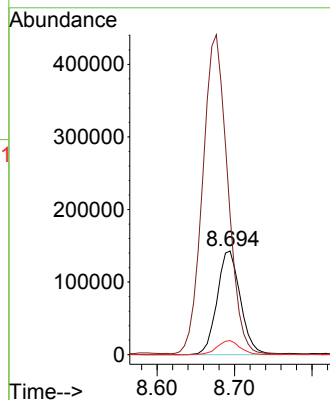
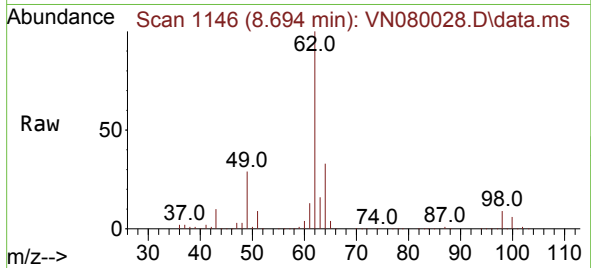




#43
Isopropyl Acetate
Concen: 30.798 ug/l
RT: 8.694 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

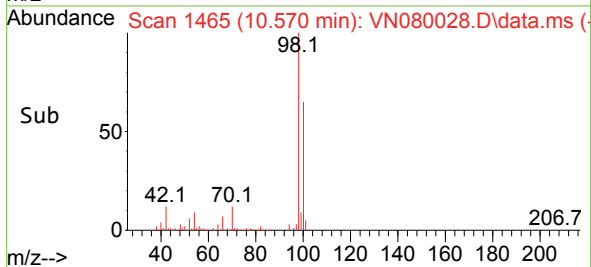
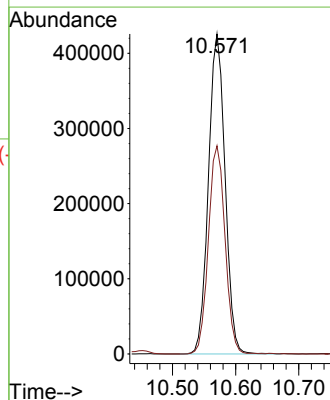
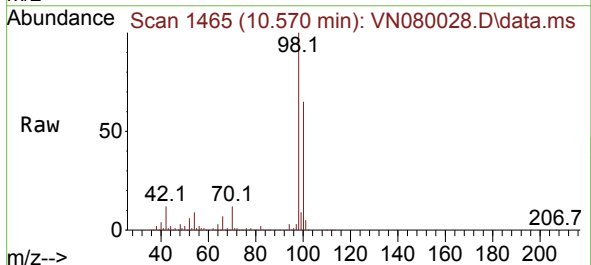
Instrument :
MSVOA_N
ClientSampleId :
67S-IDW-01

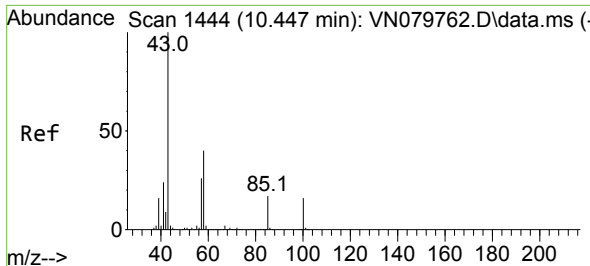
Tgt Ion: 43 Resp: 300123
Ion Ratio Lower Upper
43 100
61 329.9 24.7 37.1#
87 13.4 14.6 21.8#



#50
Toluene-d8
Concen: 49.772 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion: 98 Resp: 777534
Ion Ratio Lower Upper
98 100
100 65.2 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 11.648 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN080028.D

Acq: 09 Nov 2023 17:46

Instrument :

MSVOA_N

ClientSampleId :

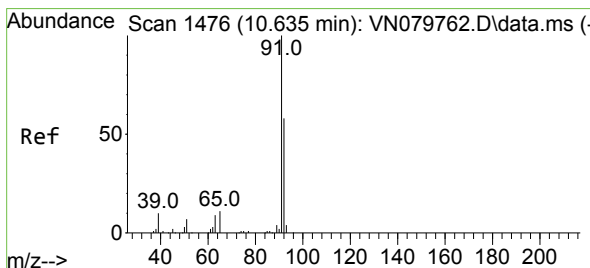
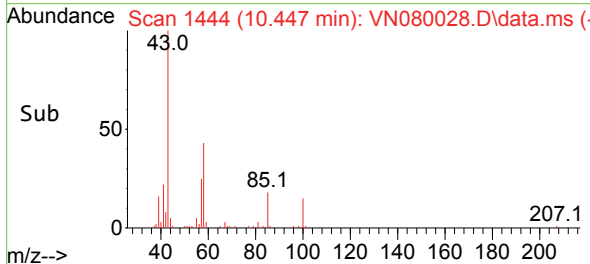
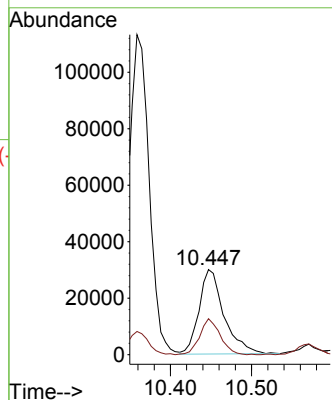
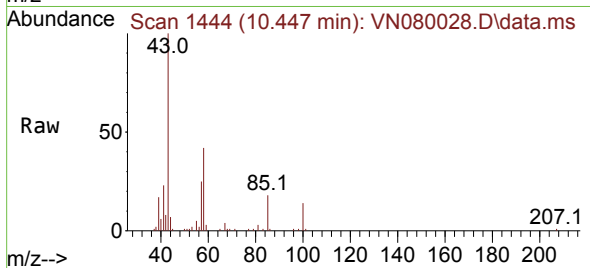
67S-IDW-01

Tgt Ion: 43 Resp: 63903

Ion Ratio Lower Upper

43 100

58 34.9 36.6 54.8#



#52

Toluene

Concen: 489.318 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN080028.D

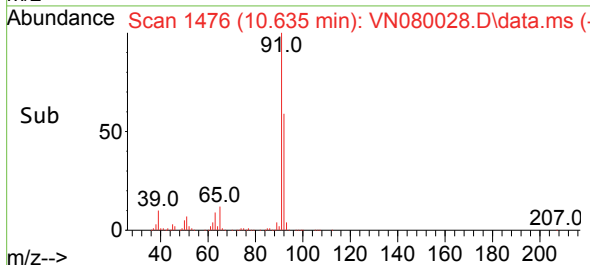
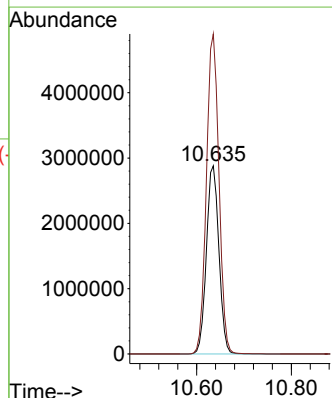
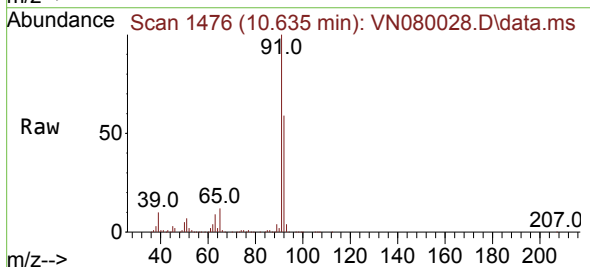
Acq: 09 Nov 2023 17:46

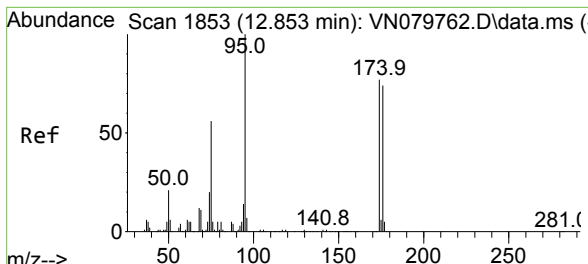
Tgt Ion: 92 Resp: 5264397

Ion Ratio Lower Upper

92 100

91 170.2 137.4 206.0

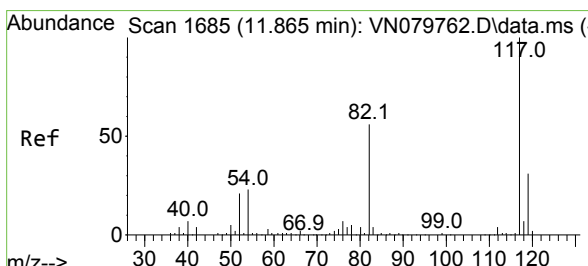
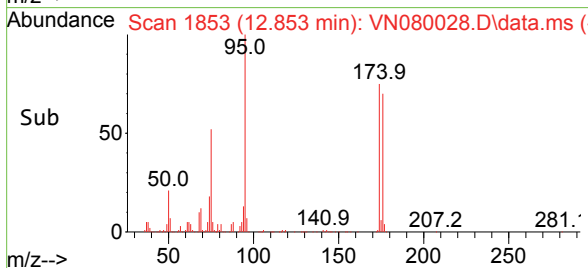
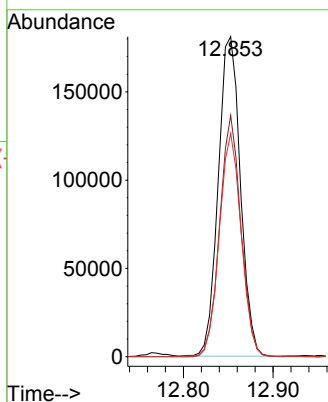
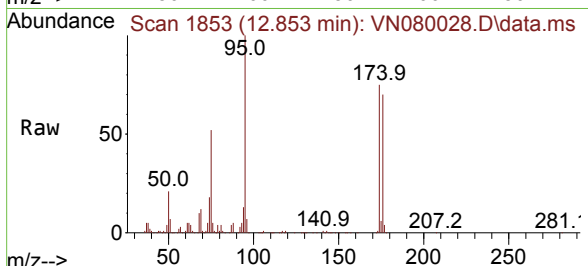




#62
 4-Bromofluorobenzene
 Concen: 59.817 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN080028.D
 Acq: 09 Nov 2023 17:46

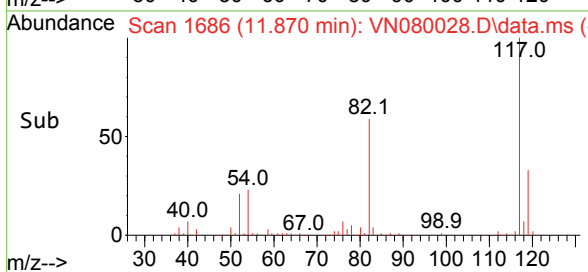
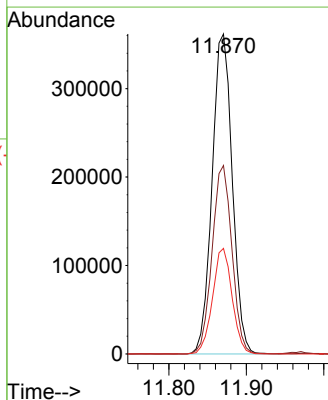
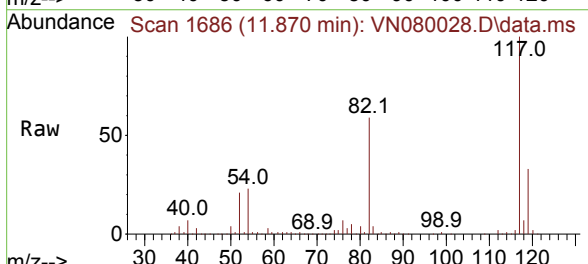
Instrument :
 MSVOA_N
 ClientSampleId :
 67S-IDW-01

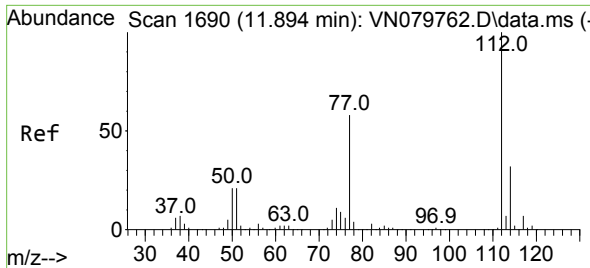
Tgt Ion:	95	Resp:	309909
Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	143.8
176	68.7	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN080028.D
 Acq: 09 Nov 2023 17:46

Tgt Ion:	117	Resp:	653689
Ion	Ratio	Lower	Upper
117	100		
82	58.8	44.0	66.0
119	33.0	25.6	38.4

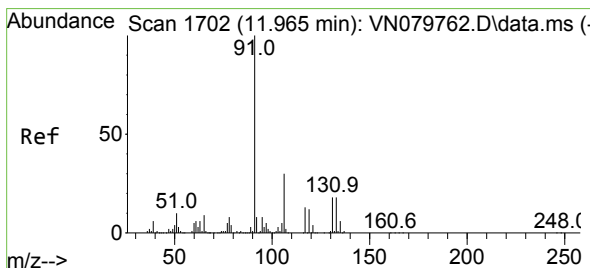
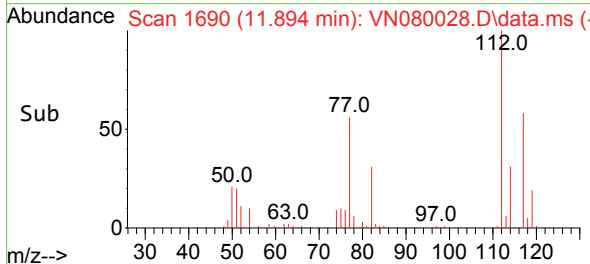
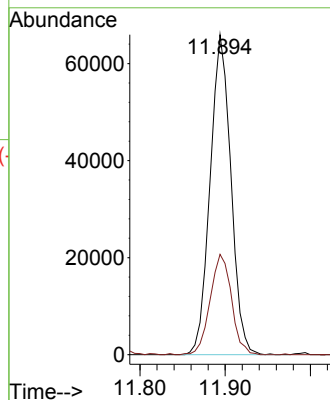
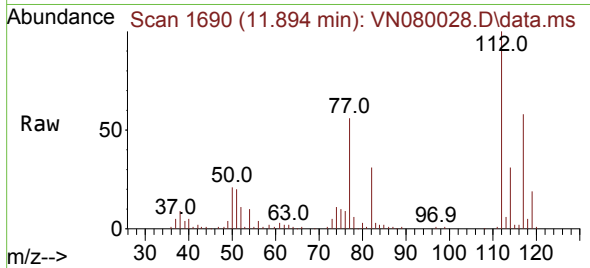




#65
Chlorobenzene
Concen: 7.876 ug/l
RT: 11.894 min Scan# 111683
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

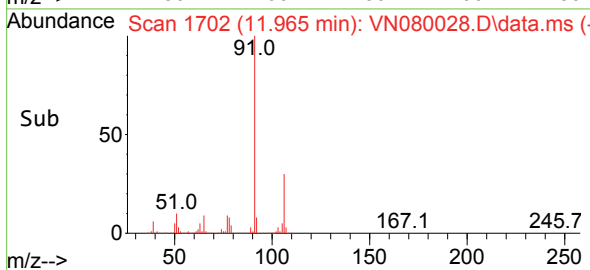
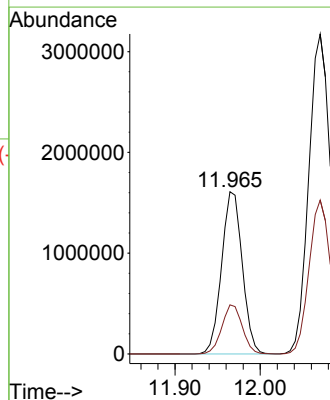
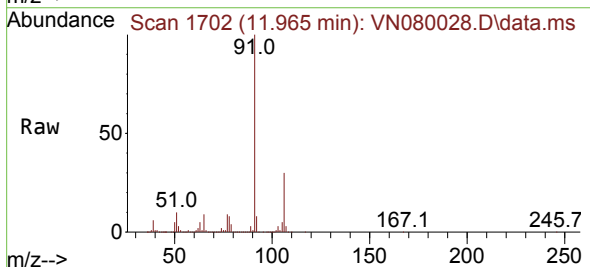
Instrument :
MSVOA_N
ClientSampleId :
67S-IDW-01

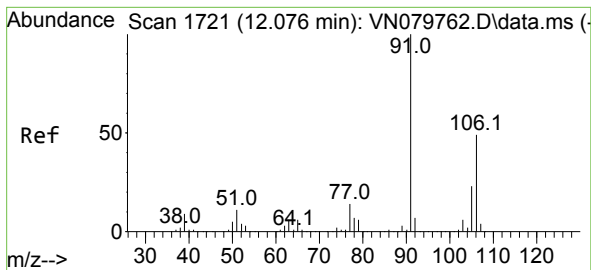
Tgt Ion:112 Resp: 111683
Ion Ratio Lower Upper
112 100
114 31.3 25.0 37.4



#67
Ethyl Benzene
Concen: 110.136 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion: 91 Resp: 2720886
Ion Ratio Lower Upper
91 100
106 30.3 25.6 38.4

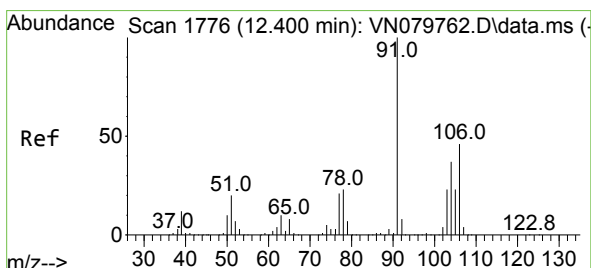
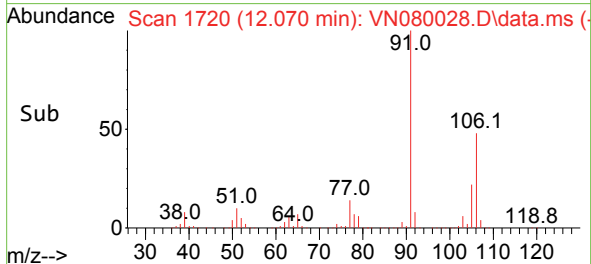
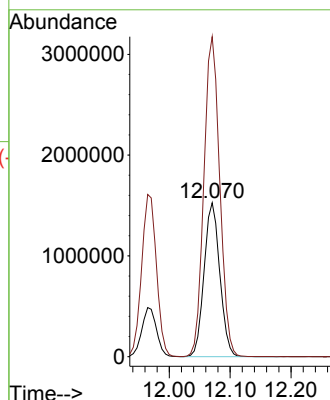
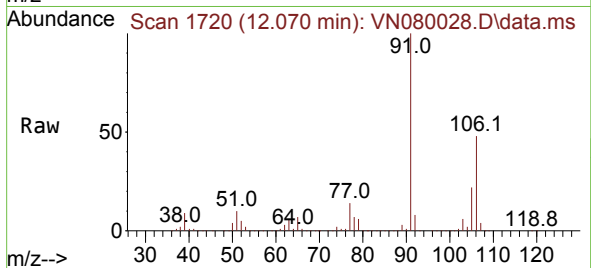




#68
m/p-Xylenes
Concen: 296.827 ug/l
RT: 12.070 min Scan# 1721
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

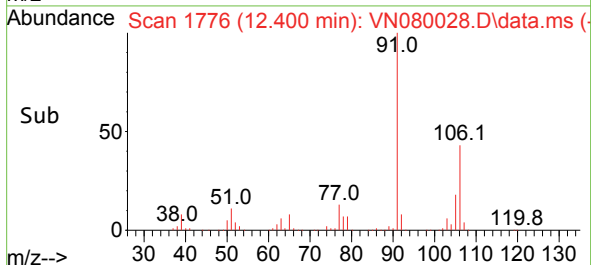
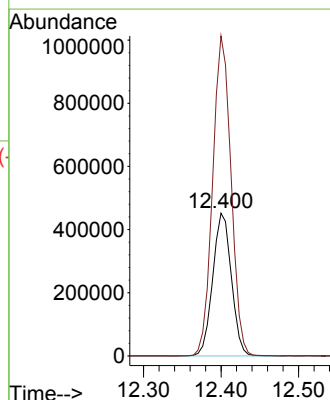
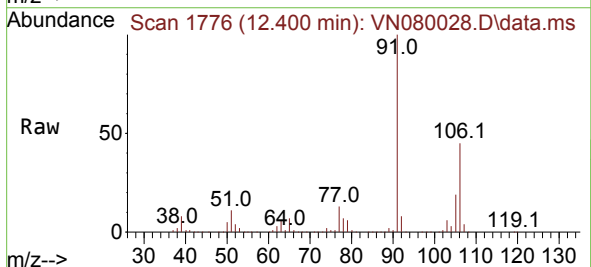
Instrument :
MSVOA_N
ClientSampleId :
67S-IDW-01

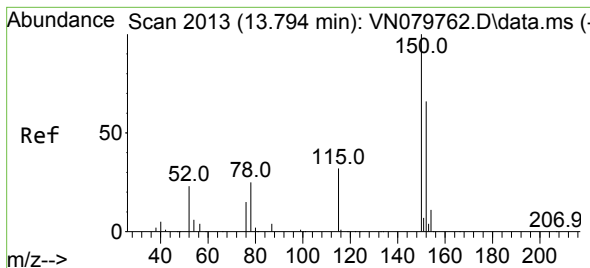
Tgt Ion:106 Resp: 2731678
Ion Ratio Lower Upper
106 100
91 210.2 159.6 239.4



#69
o-Xylene
Concen: 85.022 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion:106 Resp: 753463
Ion Ratio Lower Upper
106 100
91 222.1 105.2 315.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN080028.D

Acq: 09 Nov 2023 17:46

Instrument :

MSVOA_N

ClientSampleId :

67S-IDW-01

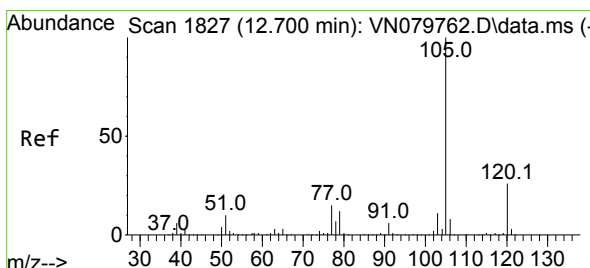
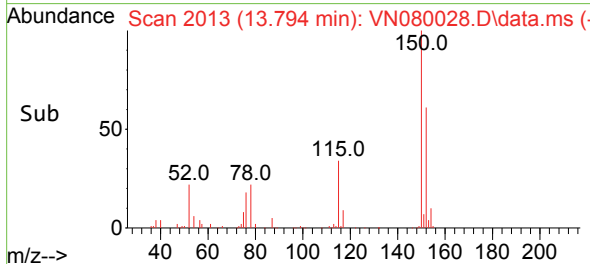
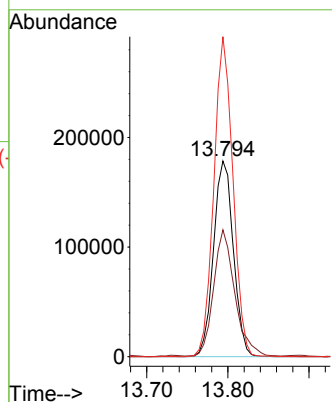
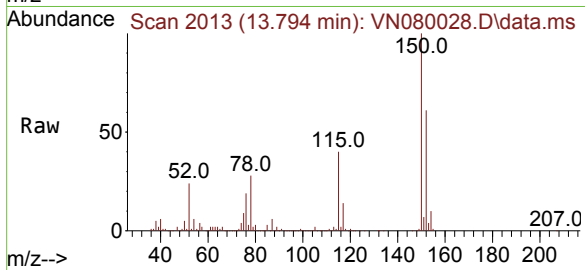
Tgt Ion:152 Resp: 303567

Ion Ratio Lower Upper

152 100

115 68.2 32.3 96.8

150 157.0 0.0 355.8



#73

Isopropylbenzene

Concen: 10.649 ug/l

RT: 12.700 min Scan# 1827

Delta R.T. -0.000 min

Lab File: VN080028.D

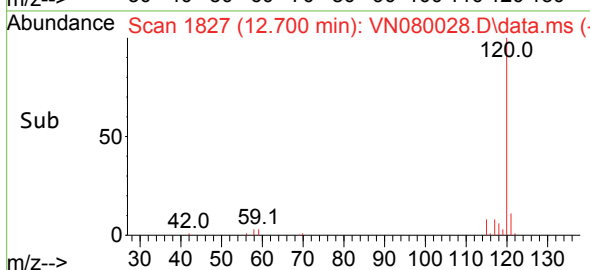
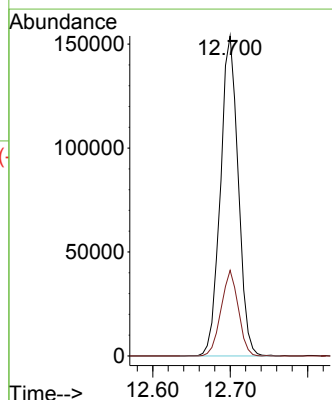
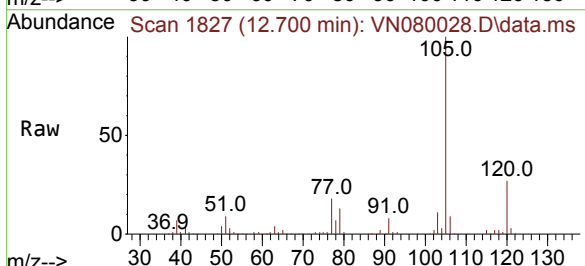
Acq: 09 Nov 2023 17:46

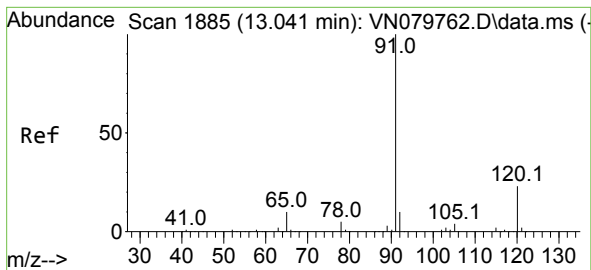
Tgt Ion:105 Resp: 245351

Ion Ratio Lower Upper

105 100

120 25.9 13.1 39.1





#78

n-propylbenzene

Concen: 15.773 ug/l

RT: 13.041 min Scan# 1885

Delta R.T. 0.000 min

Lab File: VN080028.D

Acq: 09 Nov 2023 17:46

Instrument :

MSVOA_N

ClientSampleId :

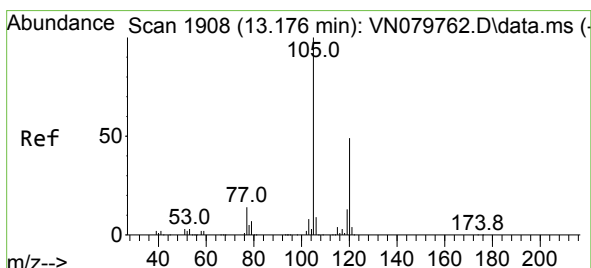
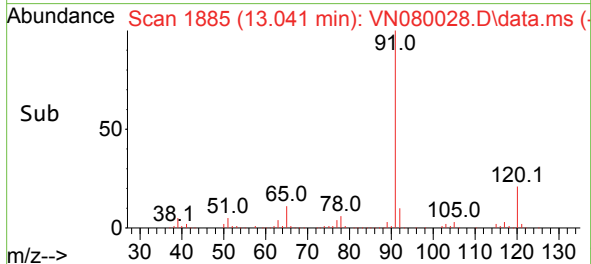
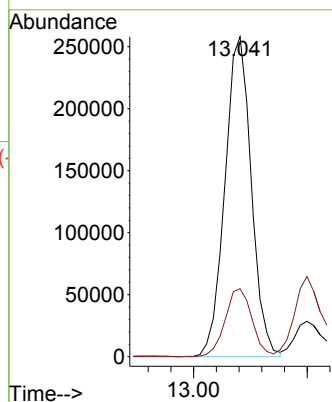
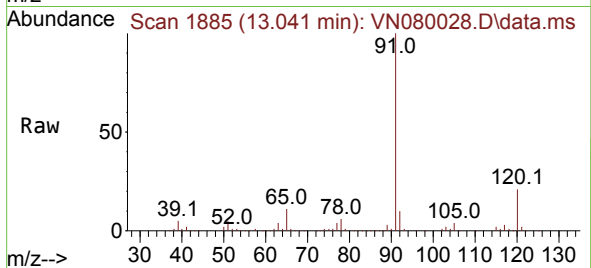
67S-IDW-01

Tgt Ion: 91 Resp: 416130

Ion Ratio Lower Upper

91 100

120 21.6 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 9.413 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN080028.D

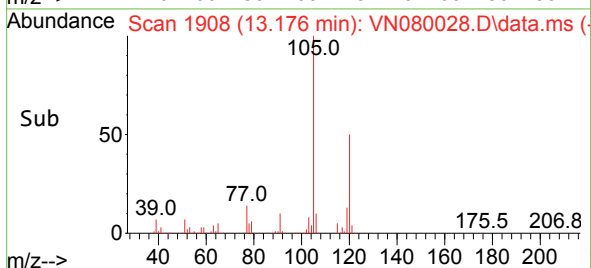
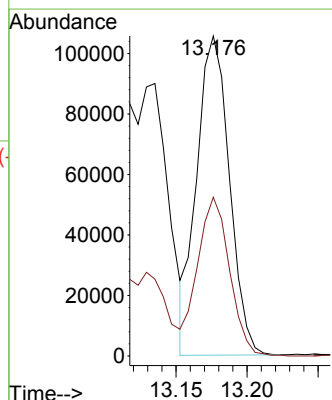
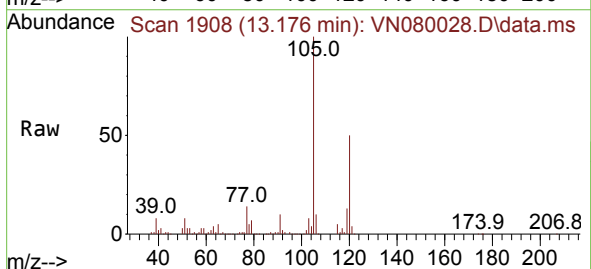
Acq: 09 Nov 2023 17:46

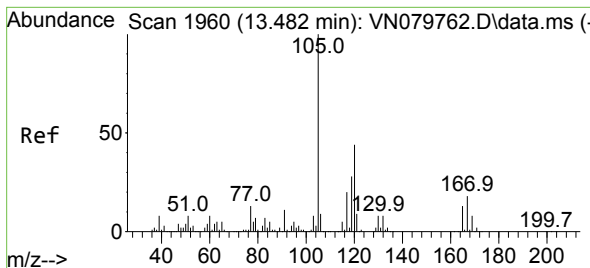
Tgt Ion: 105 Resp: 168736

Ion Ratio Lower Upper

105 100

120 48.8 24.1 72.3





#84

1,2,4-Trimethylbenzene

Concen: 45.769 ug/l

RT: 13.488 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN080028.D

Acq: 09 Nov 2023 17:46

Instrument :

MSVOA_N

ClientSampleId :

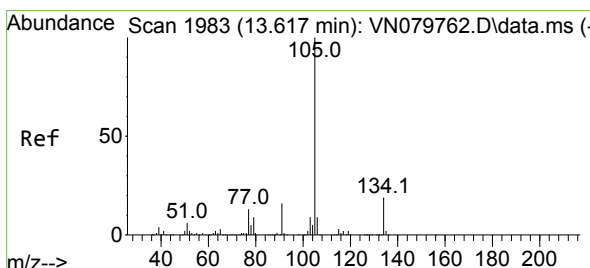
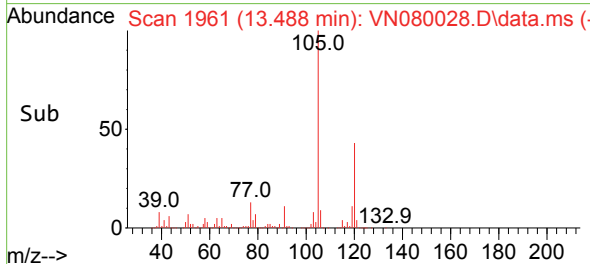
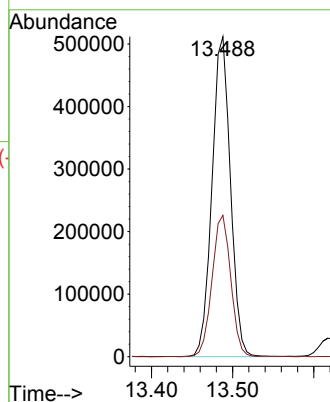
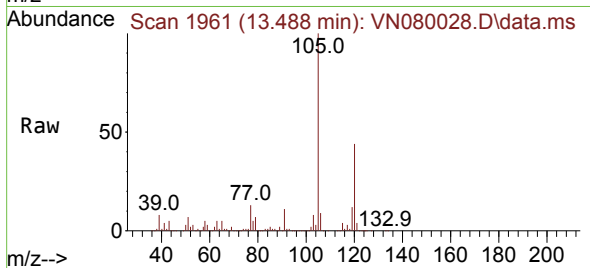
67S-IDW-01

Tgt Ion:105 Resp: 807161

Ion Ratio Lower Upper

105 100

120 44.9 22.0 66.0



#85

sec-Butylbenzene

Concen: 2.419 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN080028.D

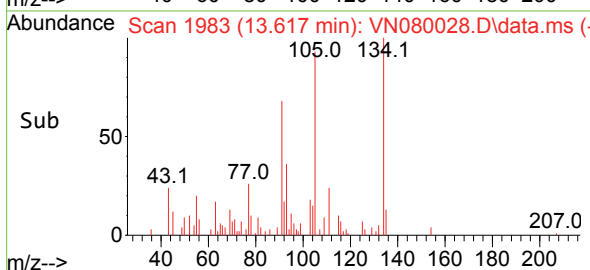
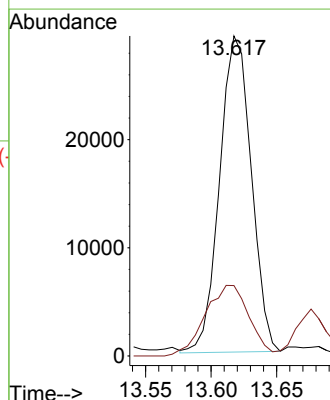
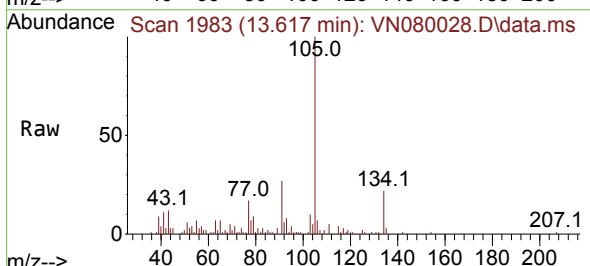
Acq: 09 Nov 2023 17:46

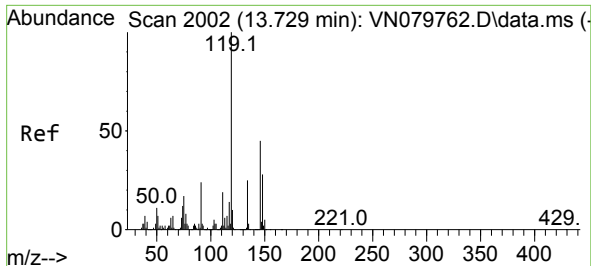
Tgt Ion:105 Resp: 49164

Ion Ratio Lower Upper

105 100

134 30.8 9.8 29.3#

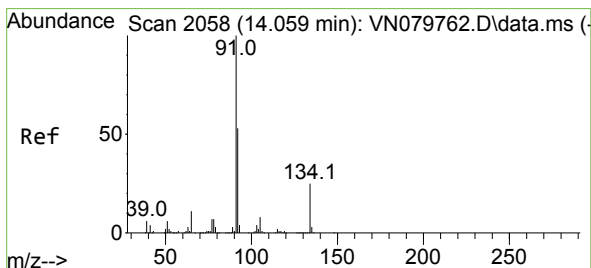
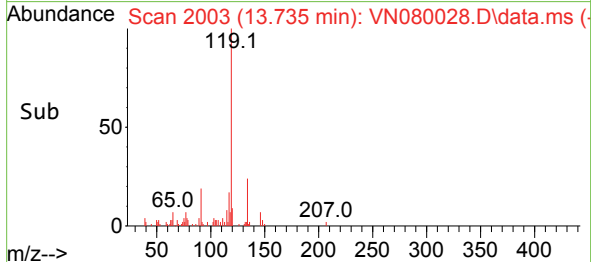
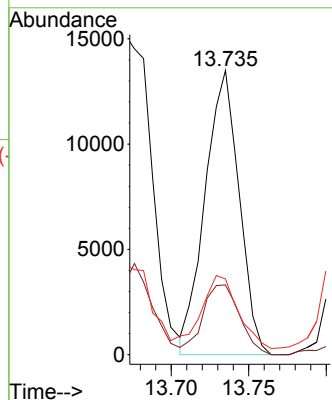
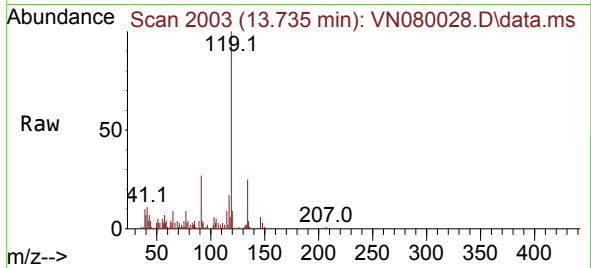




#86
p-Isopropyltoluene
Concen: 1.244 ug/l
RT: 13.735 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

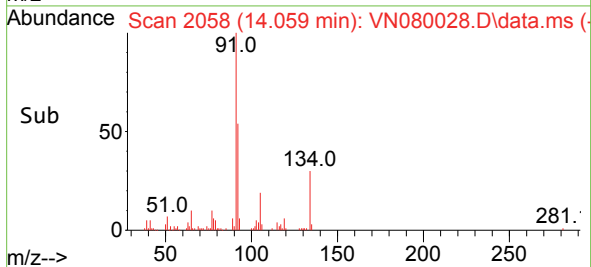
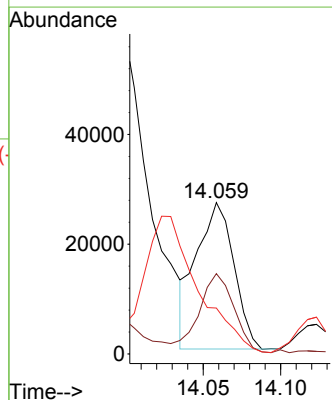
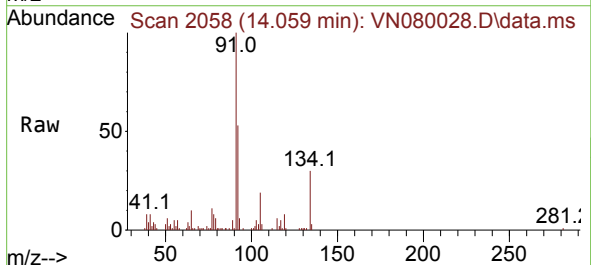
Instrument :
MSVOA_N
ClientSampleId :
67S-IDW-01

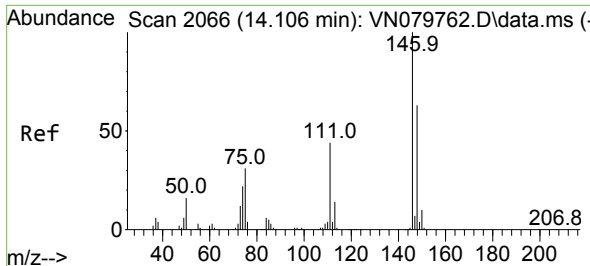
Tgt Ion:119 Resp: 20623
Ion Ratio Lower Upper
119 100
134 26.7 12.6 37.8
91 26.3 12.4 37.2



#89
n-Butylbenzene
Concen: 3.137 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion: 91 Resp: 44783
Ion Ratio Lower Upper
91 100
92 50.5 26.4 79.0
134 0.0 12.6 37.6#

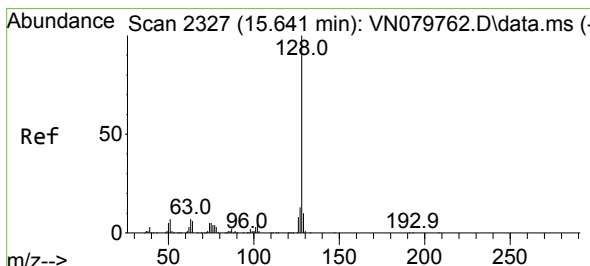
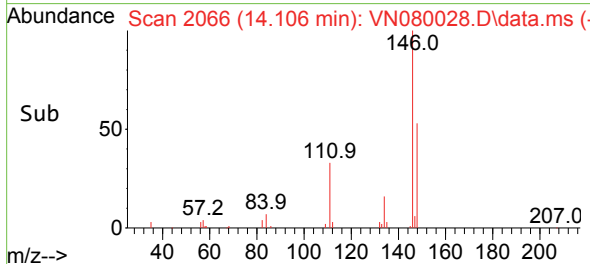
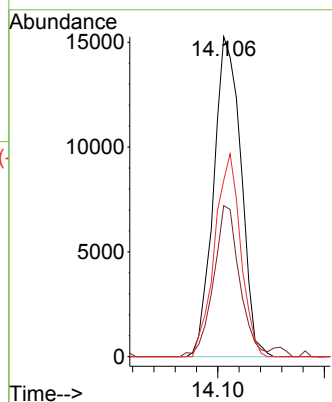
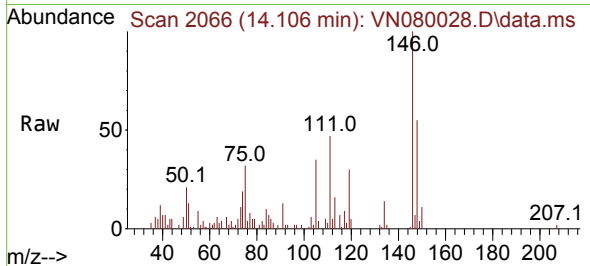




#91
1,2-Dichlorobenzene
Concen: 2.749 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Instrument :
MSVOA_N
ClientSampleId :
67S-IDW-01

Tgt Ion:146 Resp: 27232
Ion Ratio Lower Upper
146 100
111 45.0 22.0 66.0
148 60.1 31.8 95.3



#95
Naphthalene
Concen: 52.591 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN080028.D
Acq: 09 Nov 2023 17:46

Tgt Ion:128 Resp: 840008
Ion Ratio Lower Upper
128 100
127 12.6 10.0 15.0
129 10.7 8.7 13.1

