

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042123\
 Data File : VN077425.D
 Acq On : 21 Apr 2023 15:13
 Operator : JC\MD
 Sample : 02471-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Apr 22 02:40:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

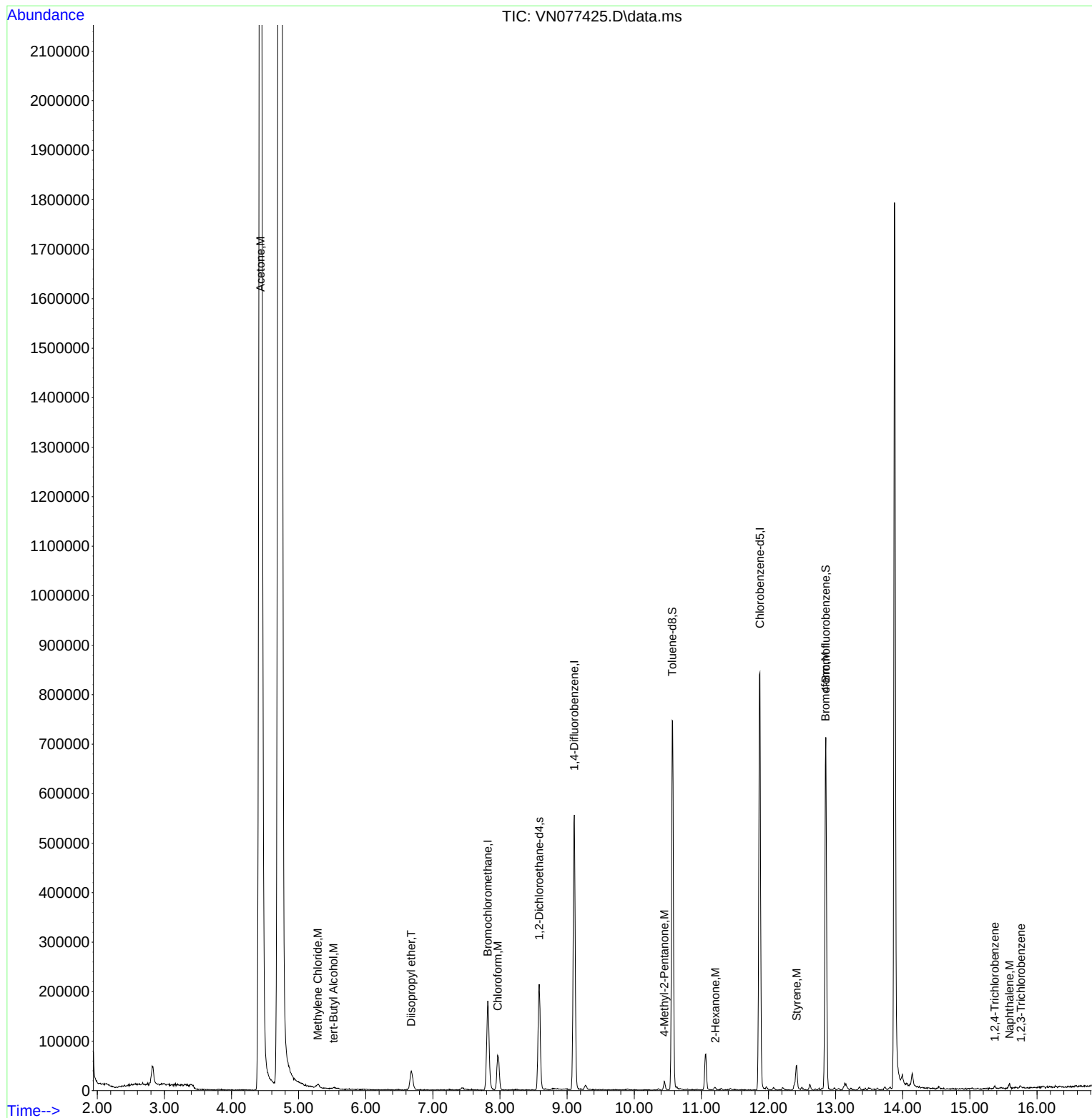
Internal Standards						
1) Bromochloromethane	7.819	128	69032	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	518258	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	527123	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	170612	29.141	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.133%		
60) 4-Bromofluorobenzene	12.854	95	245326	26.915	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	89.733%		
63) Toluene-d8	10.566	98	554310	29.913	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.700%		
Target Compounds						
					Qvalue	
15) Acetone	4.431	58	2617260	1947.487	ug/l	97
18) Methylene Chloride	5.284	84	2096	0.248	ug/l #	65
20) Diisopropyl ether	6.678	45	43972	1.970	ug/l	95
23) tert-Butyl Alcohol	5.519	59	1784	1.083	ug/l #	100
25) Chloroform	7.966	83	67905	4.430	ug/l	95
56) Bromoform	12.848	173	1338	0.209	ug/l #	1
58) 4-Methyl-2-Pentanone	10.448	43	10127	1.026	ug/l #	89
59) 2-Hexanone	11.207	43	3945	0.517	ug/l #	56
69) Styrene	12.418	104	26251	1.025	ug/l #	85
89) 1,2,4-Trichlorobenzene	15.371	180	1819	0.302	ug/l #	83
91) Naphthalene	15.589	128	7592	0.330	ug/l	94
92) 1,2,3-Trichlorobenzene	15.759	180	1905	0.324	ug/l	43

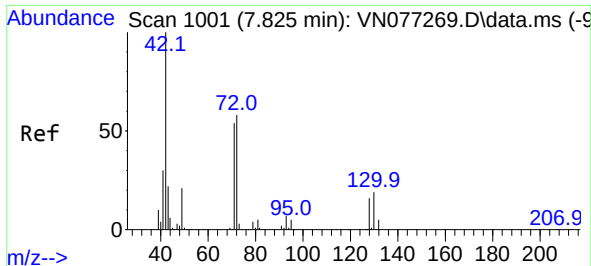
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 07 13:04:49 2023
Response via : Initial Calibration

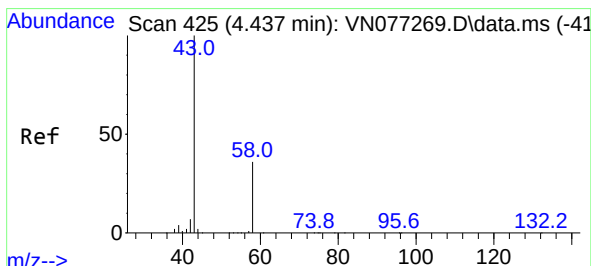
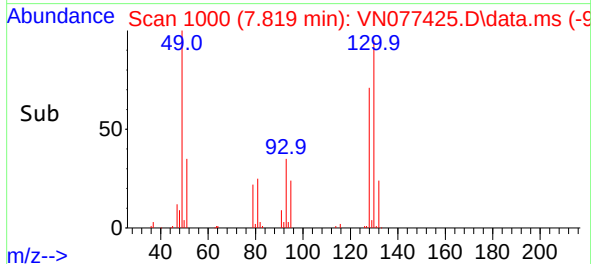
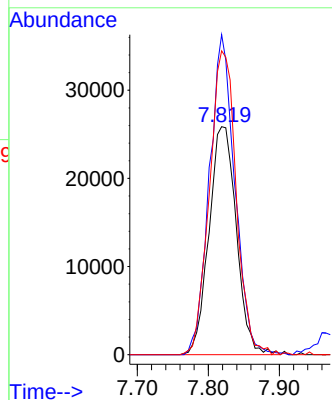
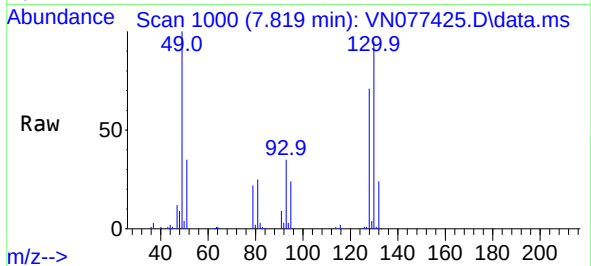




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

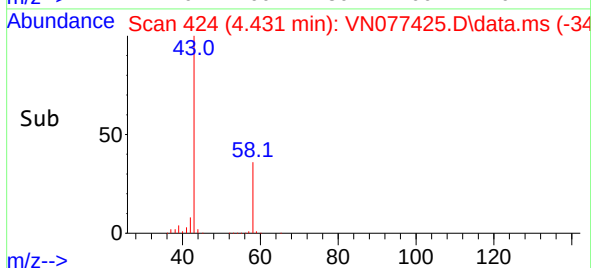
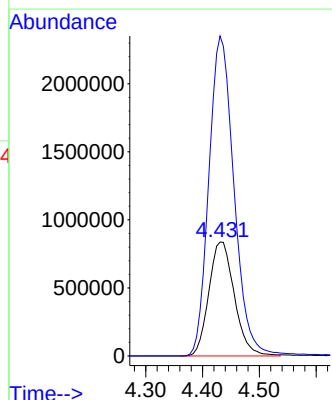
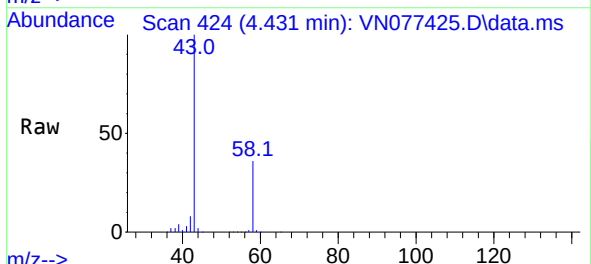
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

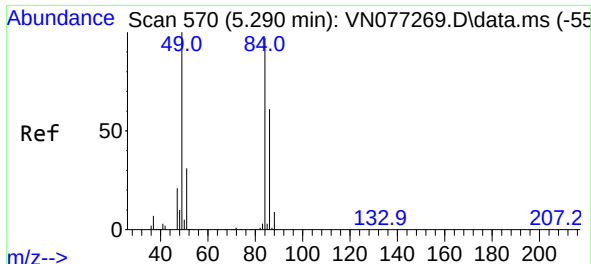
Tgt Ion:128 Resp: 69032
Ion Ratio Lower Upper
128 100
49 130.6 0.0 379.5
130 130.6 0.0 322.8



#15
Acetone
Concen: 1947.487 ug/l
RT: 4.431 min Scan# 424
Delta R.T. -0.006 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion: 58 Resp: 2617260
Ion Ratio Lower Upper
58 100
43 281.0 220.9 331.3

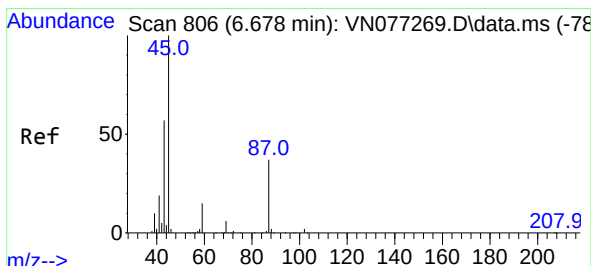
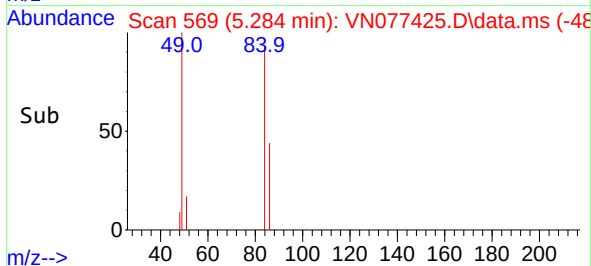
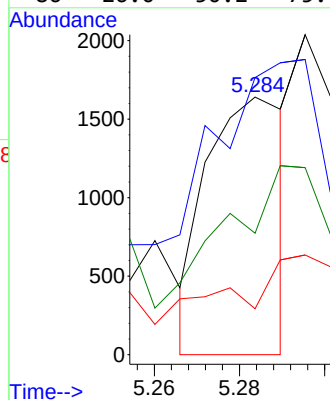
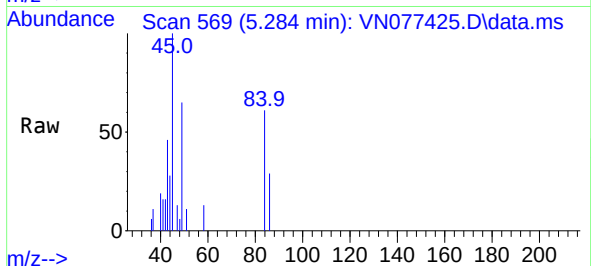




#18
Methylene Chloride
Concen: 0.248 ug/l
RT: 5.284 min Scan# 509
Delta R.T. -0.006 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

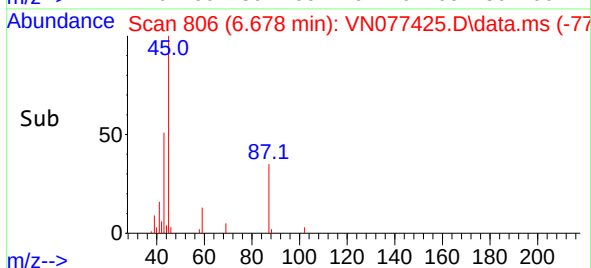
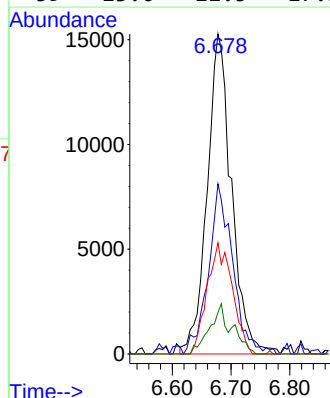
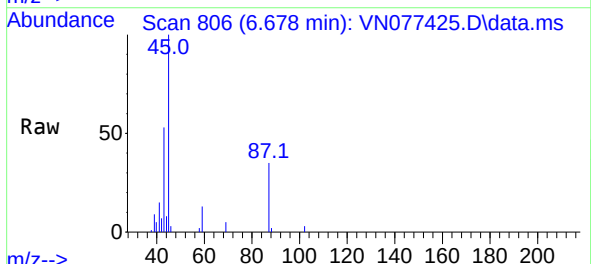
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

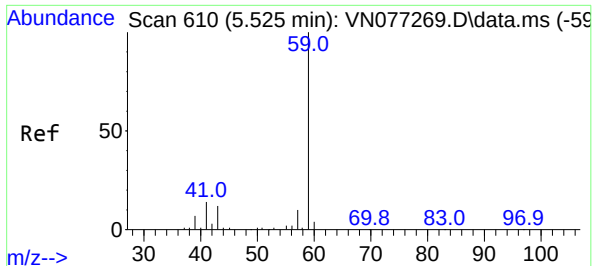
Tgt Ion: 84 Resp: 2096
Ion Ratio Lower Upper
84 100
49 82.5 82.7 124.1#
51 0.0 25.6 38.4#
86 26.0 50.2 75.4#



#20
Diisopropyl ether
Concen: 1.970 ug/l
RT: 6.678 min Scan# 806
Delta R.T. -0.000 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion: 45 Resp: 43972
Ion Ratio Lower Upper
45 100
43 53.1 45.9 68.9
87 34.7 30.1 45.1
59 13.0 11.5 17.3

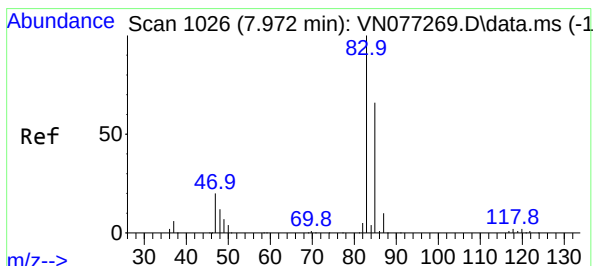
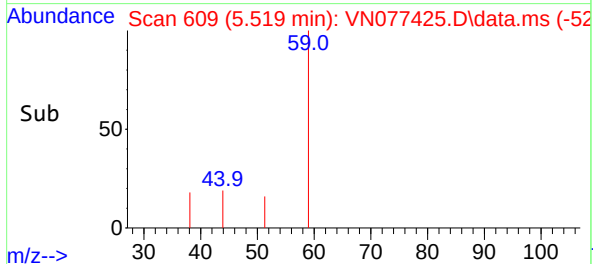
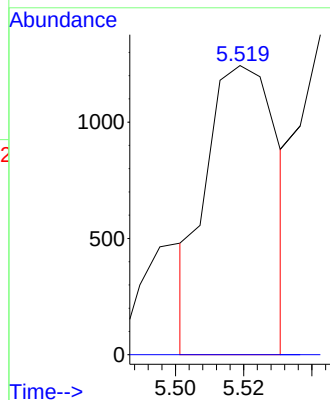
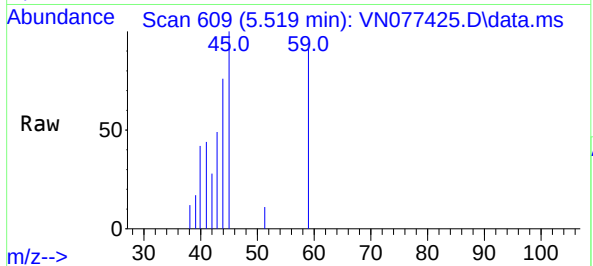




#23
tert-Butyl Alcohol
Concen: 1.083 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

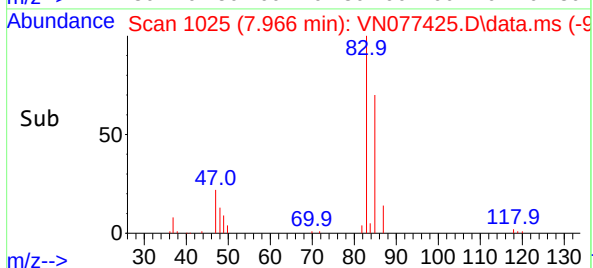
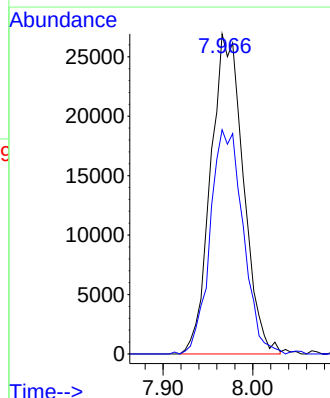
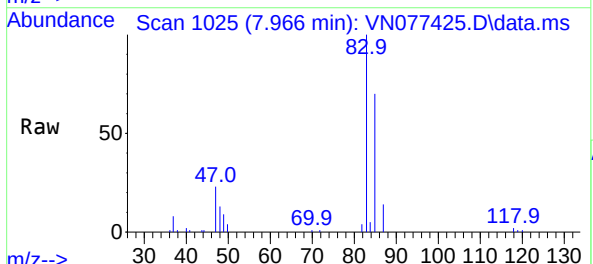
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

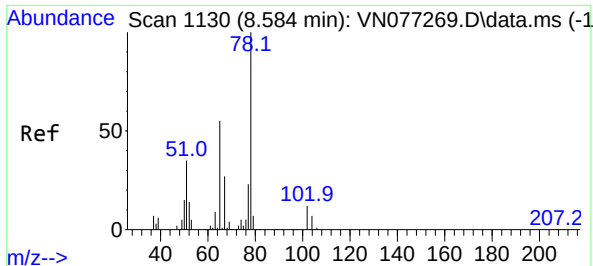
Tgt Ion: 59 Resp: 1784
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#25
Chloroform
Concen: 4.430 ug/l
RT: 7.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion: 83 Resp: 67905
Ion Ratio Lower Upper
83 100
85 70.0 52.9 79.3

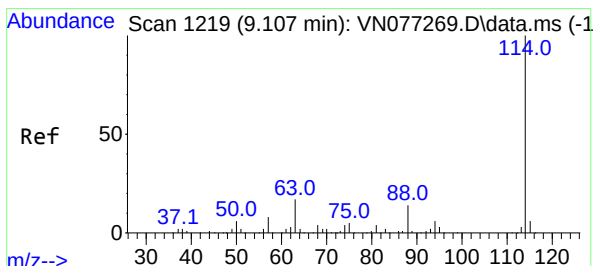
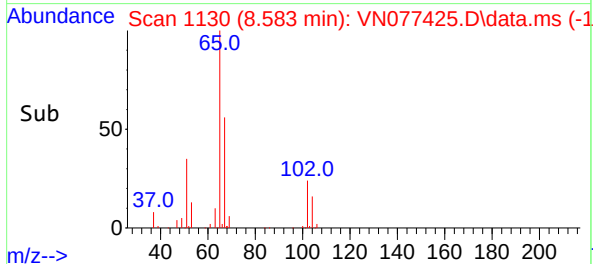
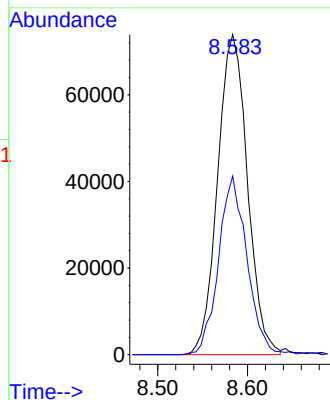
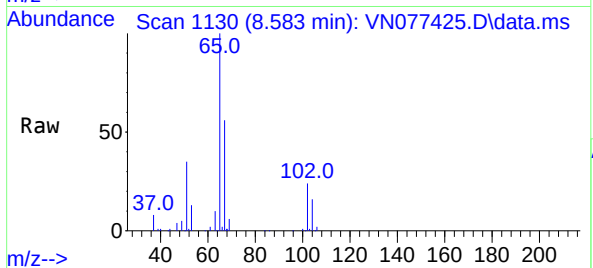




#27
1,2-Dichloroethane-d4
Concen: 29.141 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.001 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

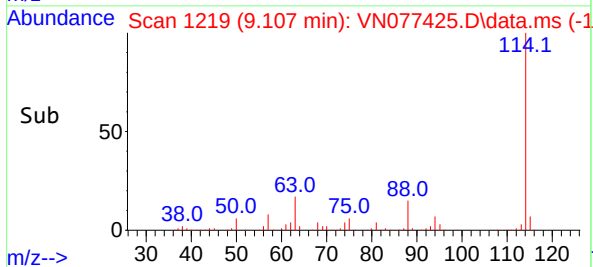
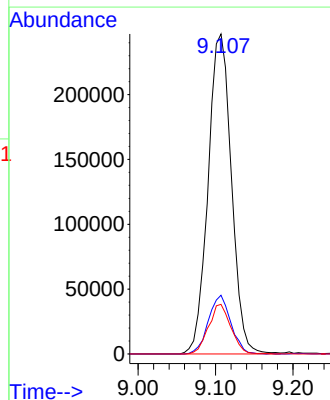
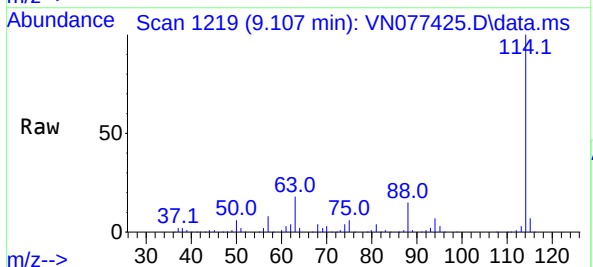
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

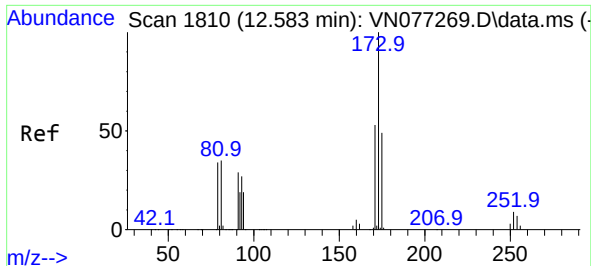
Tgt Ion: 65 Resp: 170612
Ion Ratio Lower Upper
65 100
67 53.0 41.8 62.6



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion:114 Resp: 518258
Ion Ratio Lower Upper
114 100
63 17.6 15.0 22.4
88 14.8 11.9 17.9

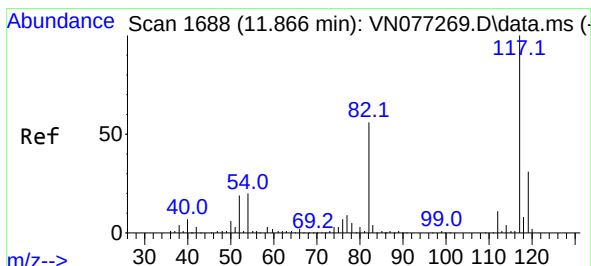
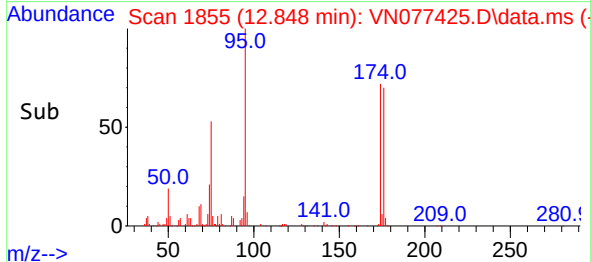
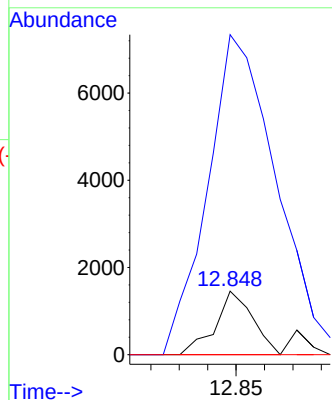
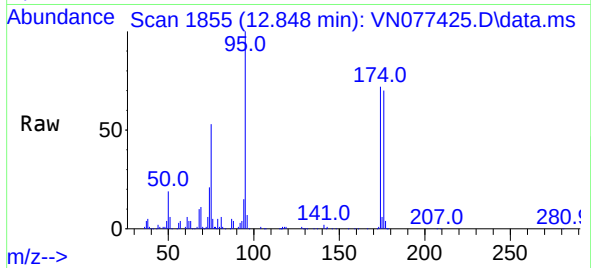




#56
Bromoform
Concen: 0.209 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.265 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

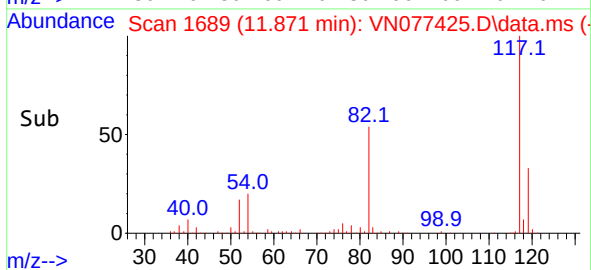
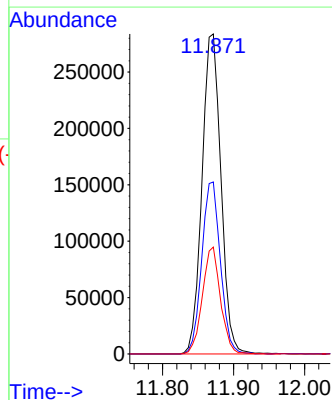
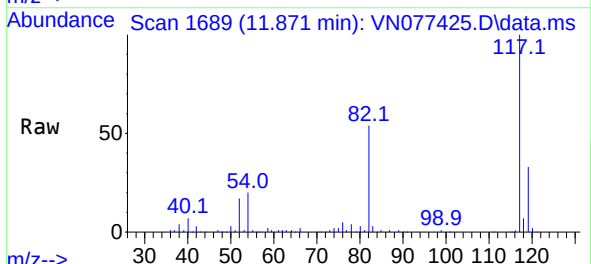
Instrument :
MSVOA_N
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EFF-WW

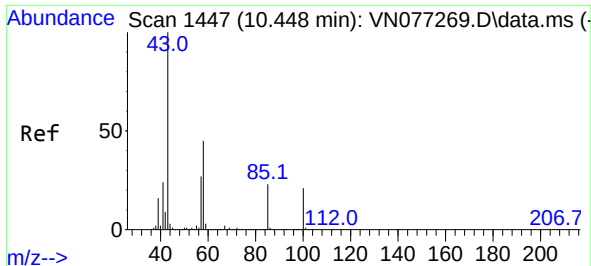
Tgt Ion:173 Resp: 1338
Ion Ratio Lower Upper
173 100
175 921.2 38.2 57.2#
254 0.0 6.0 9.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.005 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion:117 Resp: 527123
Ion Ratio Lower Upper
117 100
82 53.0 43.8 65.8
119 31.9 25.4 38.0

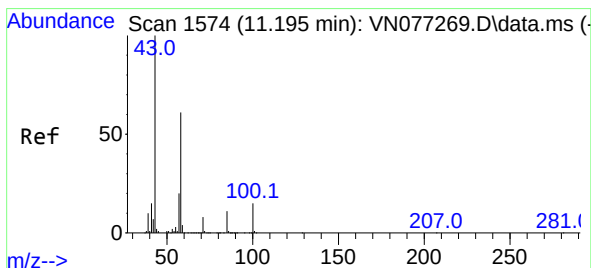
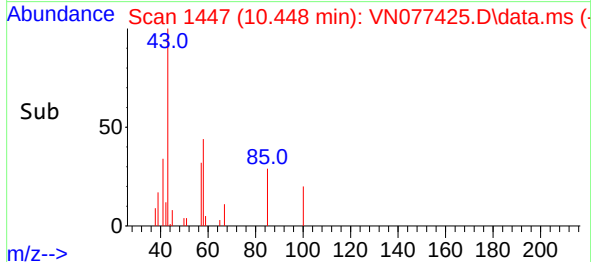
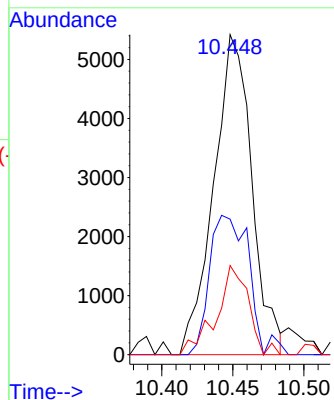
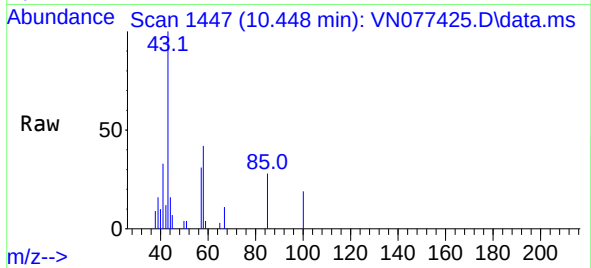




#58
4-Methyl-2-Pentanone
Concen: 1.026 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

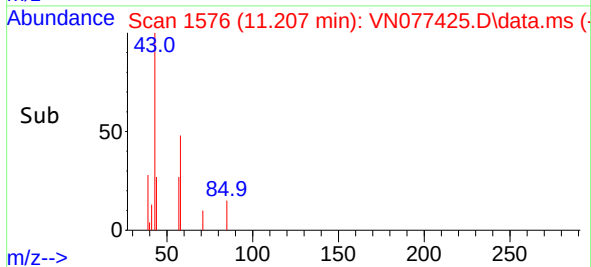
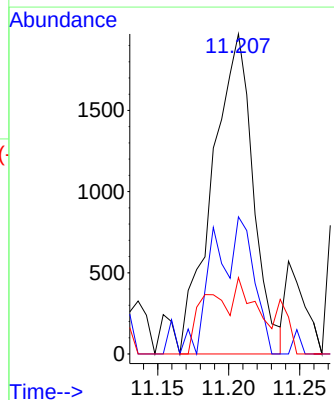
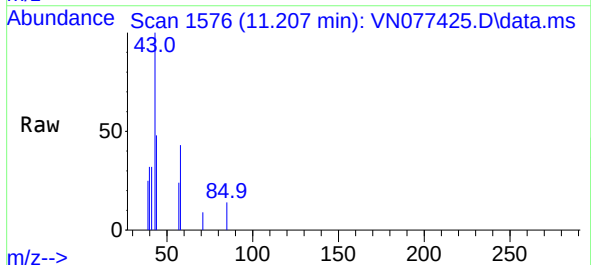
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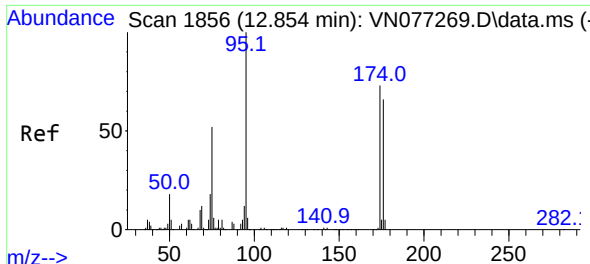
Tgt Ion: 43 Resp: 10127
Ion Ratio Lower Upper
43 100
58 33.3 34.7 52.1#
85 22.8 17.8 26.8



#59
2-Hexanone
Concen: 0.517 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.012 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion: 43 Resp: 3945
Ion Ratio Lower Upper
43 100
58 20.5 48.6 73.0#
57 13.2 16.7 25.1#

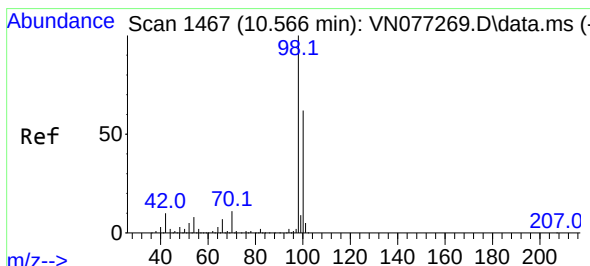
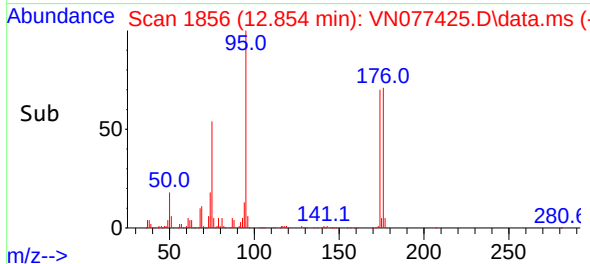
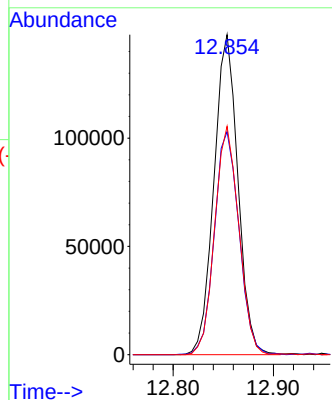
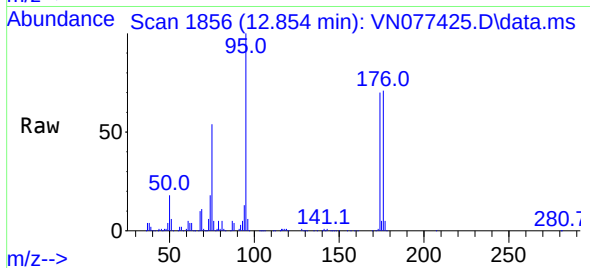




#60
4-Bromofluorobenzene
Concen: 26.915 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

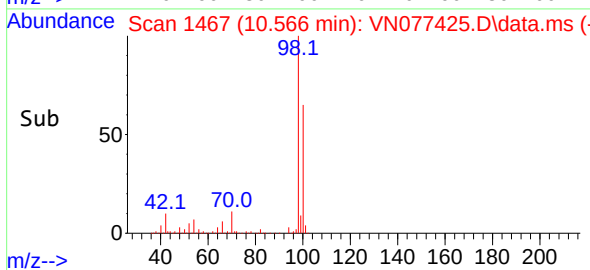
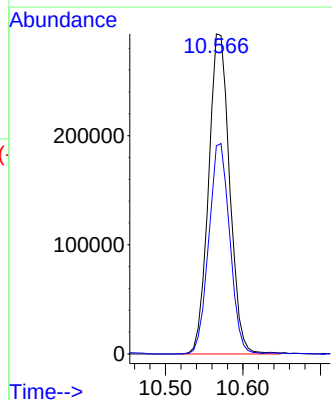
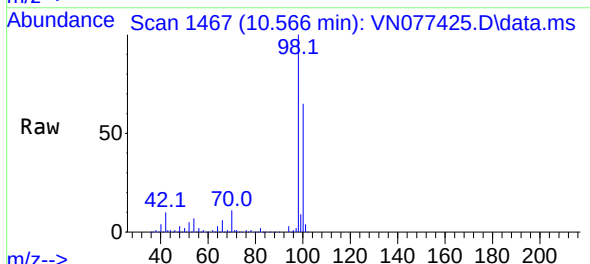
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

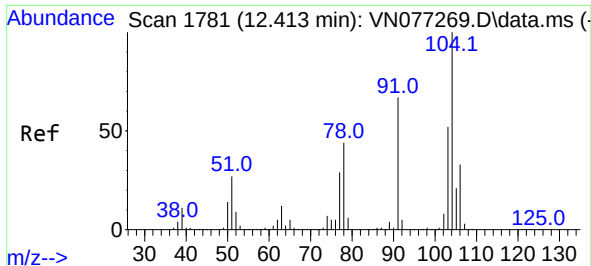
Tgt Ion: 95 Resp: 245326
Ion Ratio Lower Upper
95 100
174 71.7 57.8 86.8
176 71.8 54.6 81.8



#63
Toluene-d8
Concen: 29.913 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.000 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion: 98 Resp: 554310
Ion Ratio Lower Upper
98 100
100 65.3 51.4 77.2





#69

Styrene

Concen: 1.025 ug/l

RT: 12.418 min Scan# 11

Delta R.T. 0.005 min

Lab File: VN077425.D

Acq: 21 Apr 2023 15:13

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

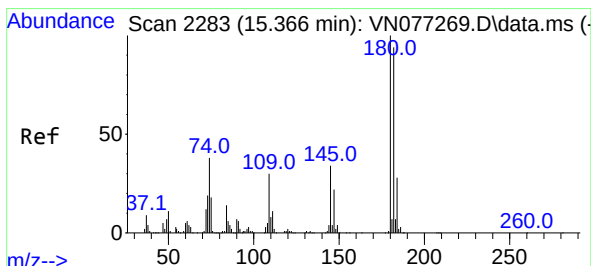
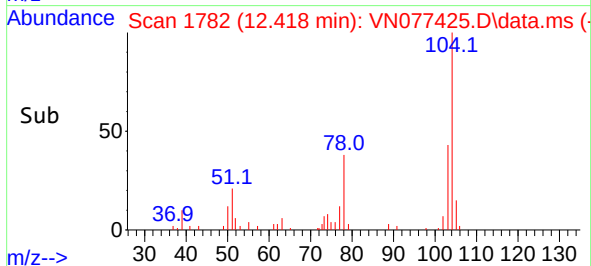
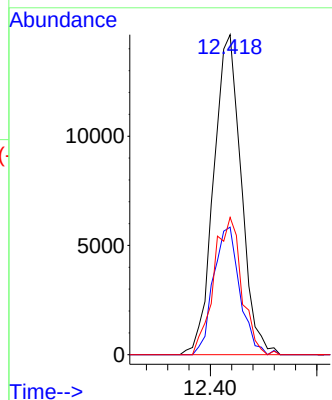
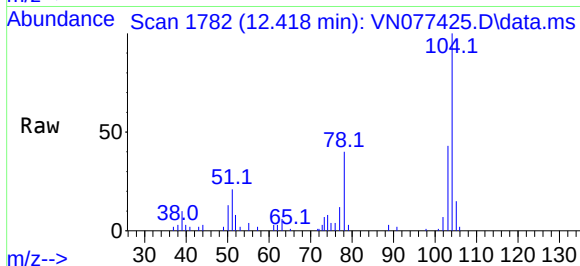
Tgt Ion:104 Resp: 26251

Ion Ratio Lower Upper

104 100

78 38.2 38.2 57.4#

103 43.3 43.6 65.4#



#89

1,2,4-Trichlorobenzene

Concen: 0.302 ug/l

RT: 15.371 min Scan# 2284

Delta R.T. 0.005 min

Lab File: VN077425.D

Acq: 21 Apr 2023 15:13

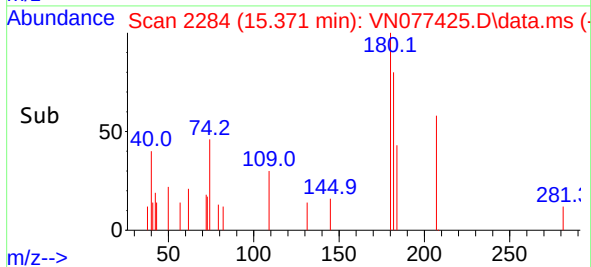
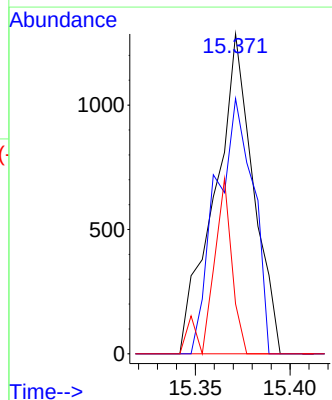
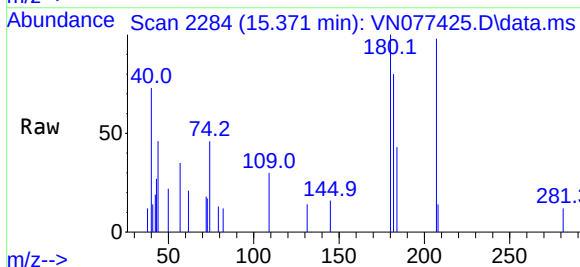
Tgt Ion:180 Resp: 1819

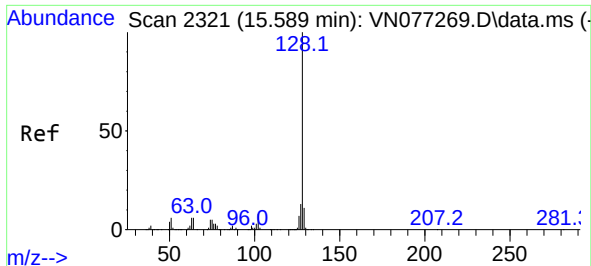
Ion Ratio Lower Upper

180 100

182 77.6 75.6 113.4

145 24.1 26.7 40.1#

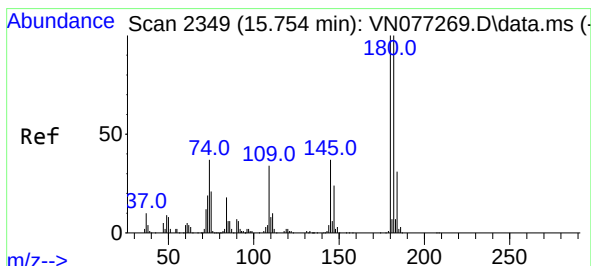
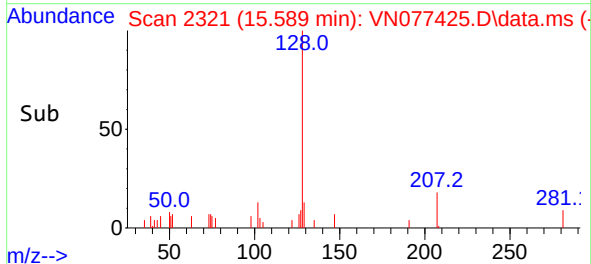
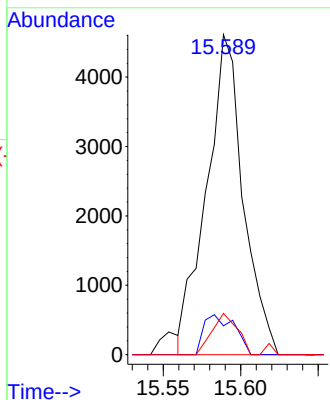
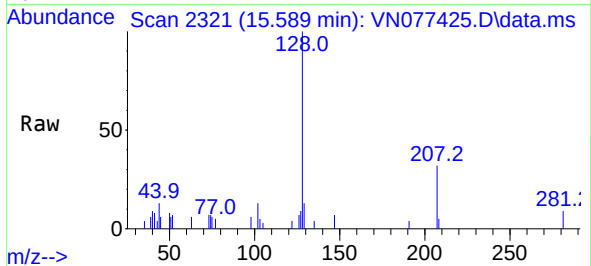




#91
Naphthalene
Concen: 0.330 ug/l
RT: 15.589 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion:128	Resp:	7592
Ion	Ratio	Lower Upper
128	100	
127	10.4	10.2 15.2
129	9.0	8.9 13.3



#92
1,2,3-Trichlorobenzene
Concen: 0.324 ug/l
RT: 15.759 min Scan# 2350
Delta R.T. 0.005 min
Lab File: VN077425.D
Acq: 21 Apr 2023 15:13

Tgt Ion:180	Resp:	1905
Ion	Ratio	Lower Upper
180	100	
182	31.3	0.0 190.4
145	16.5	0.0 72.4

