

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078740.D
 Acq On : 02 Aug 2023 20:27
 Operator : JC\MD
 Sample : 03884-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE-(JULY)

Quant Time: Aug 03 05:34:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

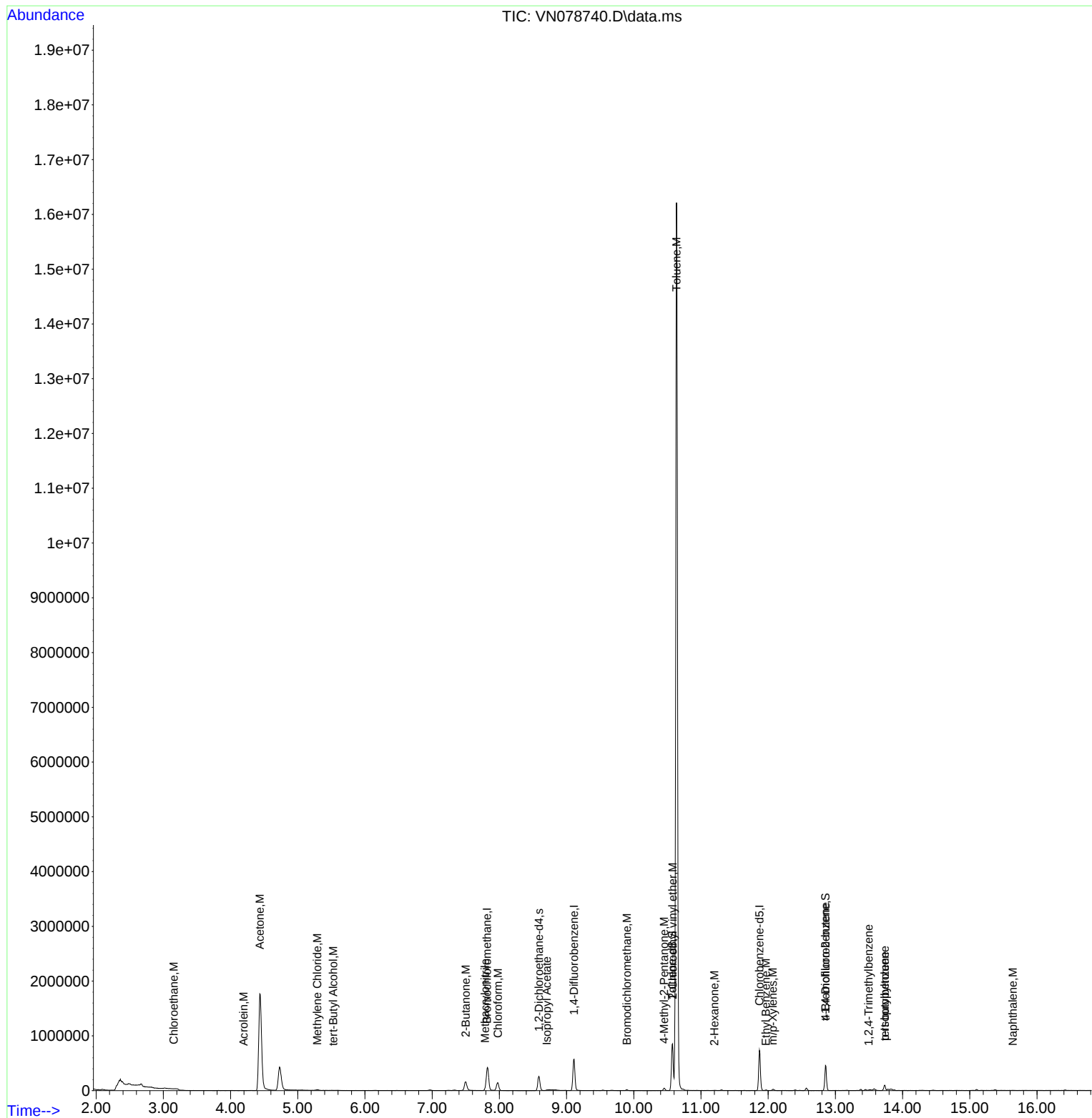
Internal Standards						
1) Bromochloromethane	7.818	128	153815	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	514748	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	437538	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	219909	19.073	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	63.567%#
60) 4-Bromofluorobenzene	12.853	95	155963	23.785	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.300%
63) Toluene-d8	10.571	98	633348	29.302	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.667%
Target Compounds						
					Qvalue	
6) Chloroethane	3.153	64	3385	0.320	ug/l #	58
13) Acrolein	4.194	56	554	0.374	ug/l #	56
15) Acetone	4.436	58	1203834	1020.845	ug/l	93
18) Methylene Chloride	5.289	84	5779	0.562	ug/l #	64
23) tert-Butyl Alcohol	5.530	59	639	0.384	ug/l #	100
25) Chloroform	7.977	83	144730	7.836	ug/l	95
30) 2-Butanone	7.500	43	259544	86.685	ug/l	99
35) Methacrylonitrile	7.788	41	2015	0.613	ug/l #	24
41) Bromodichloromethane	9.900	83	10487	1.243	ug/l #	93
44) Isopropyl Acetate	8.706	43	5264	0.485	ug/l #	50
55) 2-Chloroethyl vinyl ether	10.576	63	802	0.308	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	28739	4.388	ug/l	95
59) 2-Hexanone	11.200	43	3246	0.655	ug/l #	79
62) Toluene	10.635	91	12464620	473.609	ug/l	99
66) Ethyl Benzene	11.965	91	8413	0.317	ug/l	94
67) m/p-Xylenes	12.070	106	7614	0.751	ug/l	94
77) t-1,4-Dichloro-2-butene	12.853	75	81889	33.714	ug/l #	15
79) tert-butylbenzene	13.735	119	50444	2.574	ug/l	61
80) 1,2,4-Trimethylbenzene	13.494	105	4635	0.213	ug/l	84
82) p-Isopropyltoluene	13.735	119	50444	2.446	ug/l	98
91) Naphthalene	15.641	128	2095	0.234	ug/l #	92

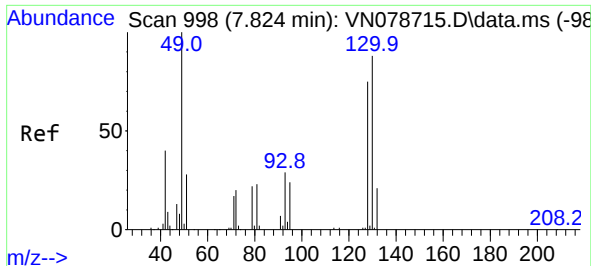
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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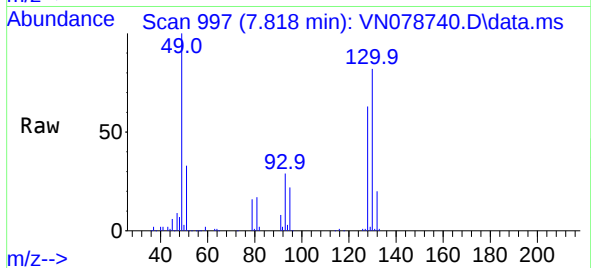
Quant Time: Aug 03 05:34:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
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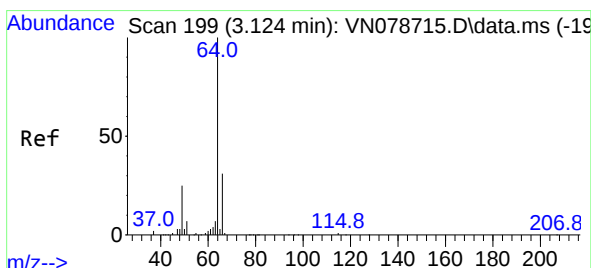
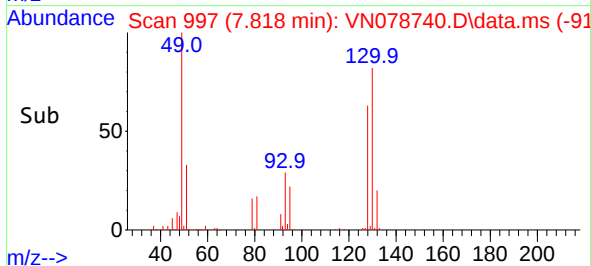
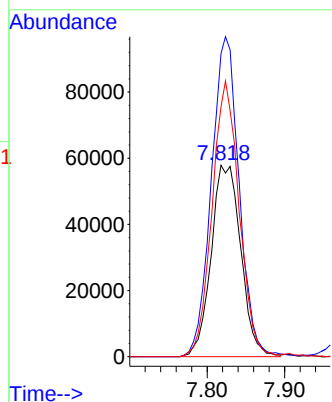


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

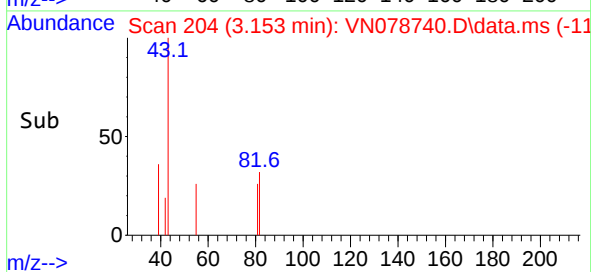
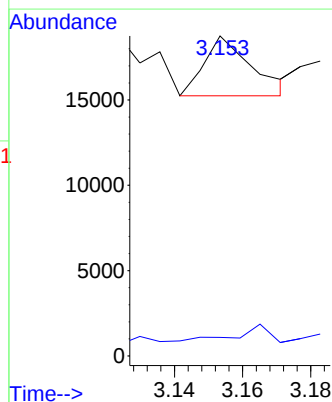
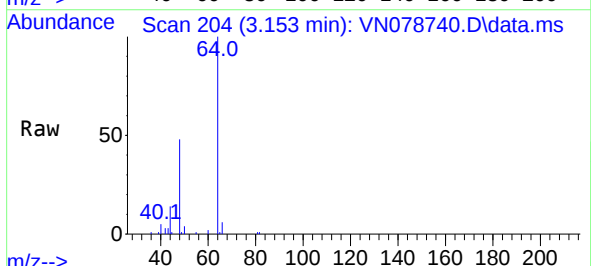


Tgt Ion:128 Resp: 153815
Ion Ratio Lower Upper
128 100
49 156.7 0.0 370.8
130 131.3 0.0 307.0

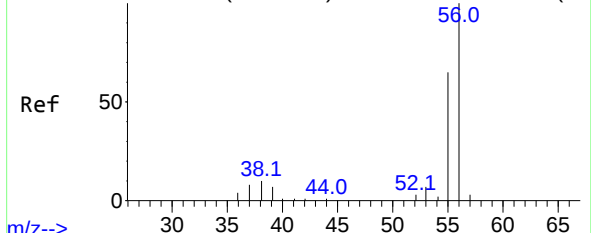


#6
Chloroethane
Concen: 0.320 ug/l
RT: 3.153 min Scan# 204
Delta R.T. 0.029 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

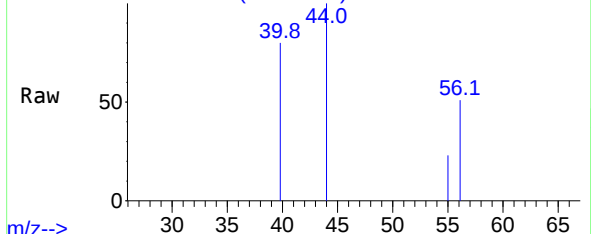
Tgt Ion: 64 Resp: 3385
Ion Ratio Lower Upper
64 100
66 8.5 25.7 38.5#



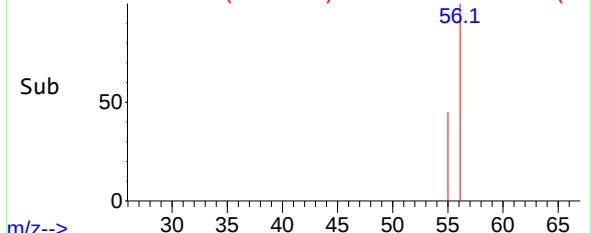
Abundance Scan 380 (4.189 min): VN078715.D\data.ms (-37



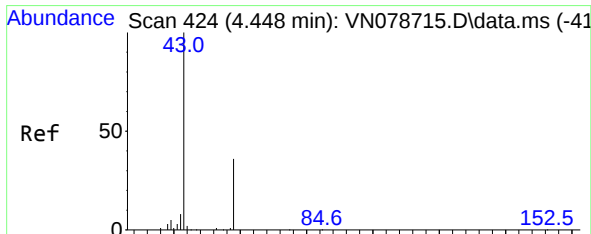
Abundance Scan 381 (4.194 min): VN078740.D\data.ms



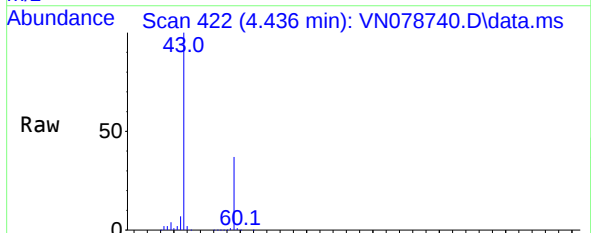
Abundance Scan 381 (4.194 min): VN078740.D\data.ms (-29



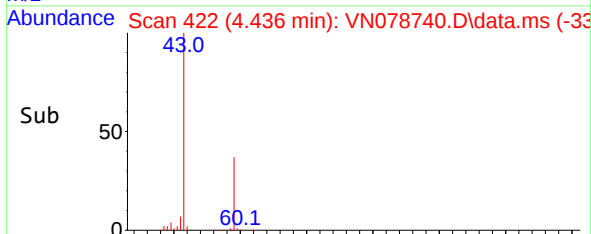
Abundance Scan 424 (4.448 min): VN078715.D\data.ms (-41



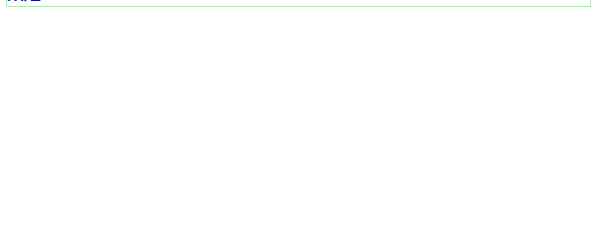
Abundance Scan 422 (4.436 min): VN078740.D\data.ms



Abundance Scan 422 (4.436 min): VN078740.D\data.ms (-35



Abundance Scan 422 (4.436 min): VN078740.D\data.ms (-35



#13

Acrolein

Concen: 0.374 ug/l

RT: 4.194 min Scan# 381

Delta R.T. 0.006 min

Lab File: VN078740.D

Acq: 02 Aug 2023 20:27

Instrument :

MSVOA_N

ClientSampleId :

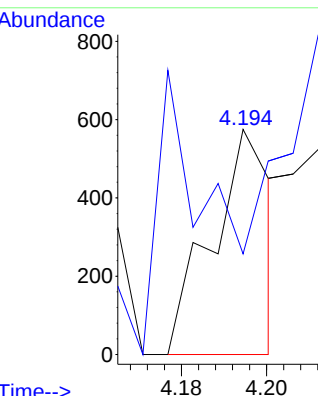
002-35TH-AVE-(JULY)

Tgt Ion: 56 Resp: 554

Ion Ratio Lower Upper

56 100

55 111.2 59.0 88.4#



#15

Acetone

Concen: 1020.845 ug/l

RT: 4.436 min Scan# 422

Delta R.T. -0.012 min

Lab File: VN078740.D

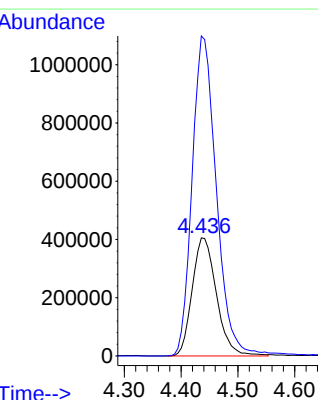
Acq: 02 Aug 2023 20:27

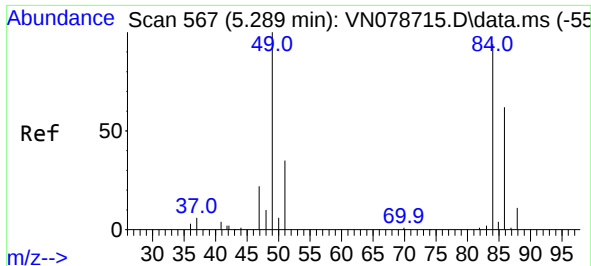
Tgt Ion: 58 Resp: 1203834

Ion Ratio Lower Upper

58 100

43 270.8 227.5 341.3

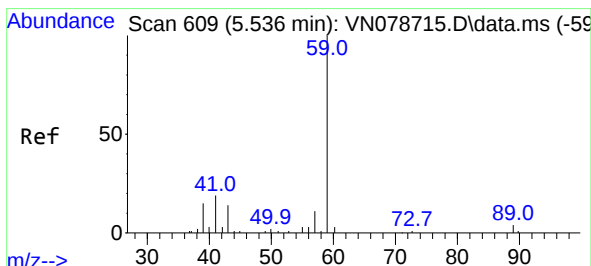
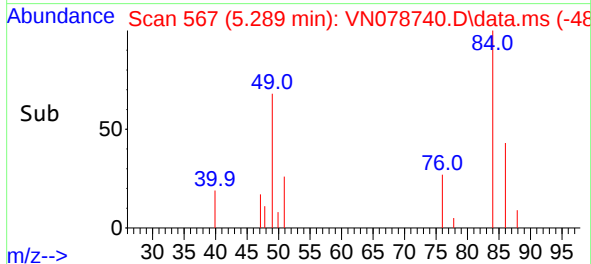
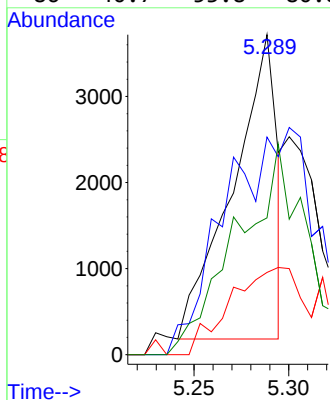
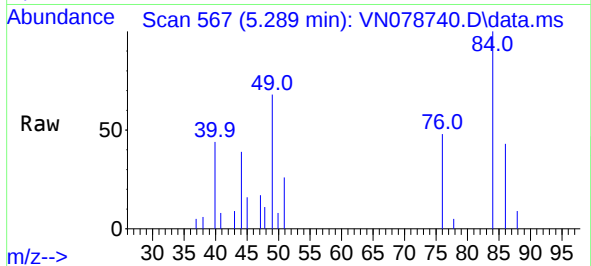




#18
Methylene Chloride
Concen: 0.562 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

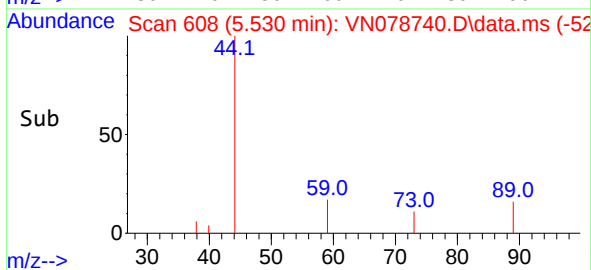
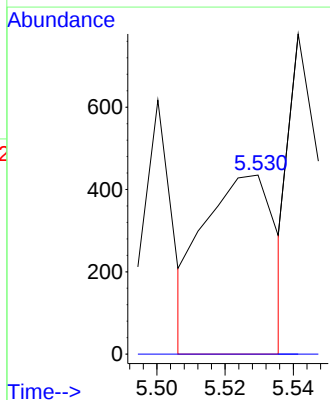
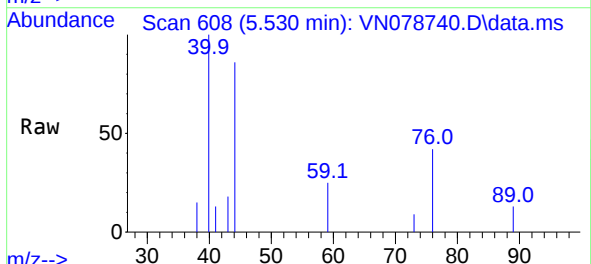
Instrument :
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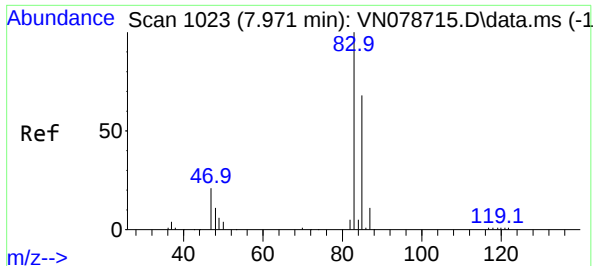
Tgt Ion: 84 Resp: 5779
Ion Ratio Lower Upper
84 100
49 61.6 88.1 132.1#
51 27.0 24.0 36.0
86 40.7 53.8 80.8#



#23
tert-Butyl Alcohol
Concen: 0.384 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Tgt Ion: 59 Resp: 639
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#





#25

Chloroform

Concen: 7.836 ug/l

RT: 7.977 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN078740.D

Acq: 02 Aug 2023 20:27

Instrument :

MSVOA_N

ClientSampleId :

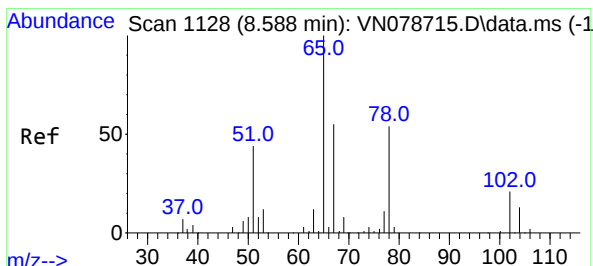
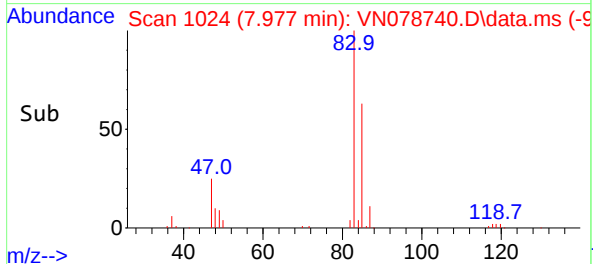
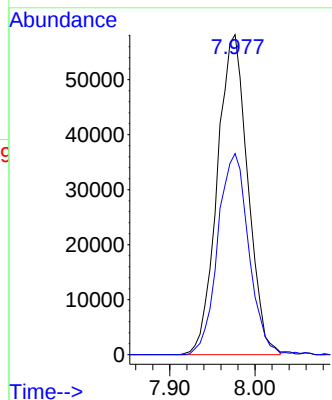
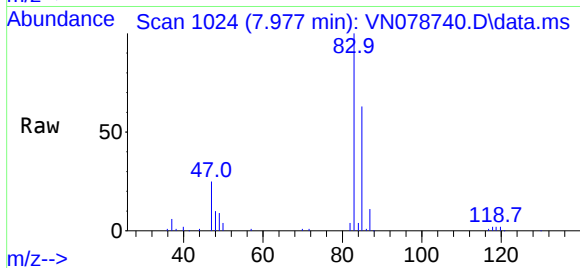
002-35TH-AVE-(JULY)

Tgt Ion: 83 Resp: 144730

Ion Ratio Lower Upper

83 100

85 62.8 53.4 80.0



#27

1,2-Dichloroethane-d4

Concen: 19.073 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN078740.D

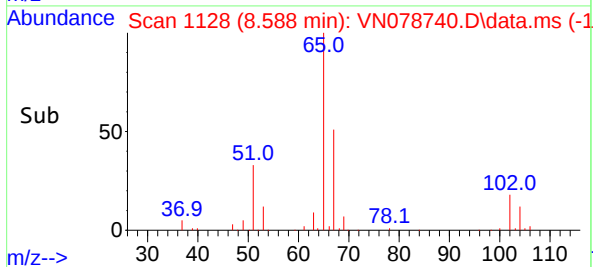
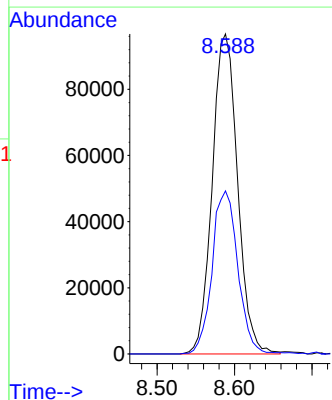
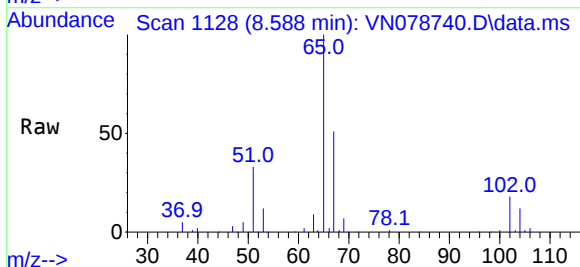
Acq: 02 Aug 2023 20:27

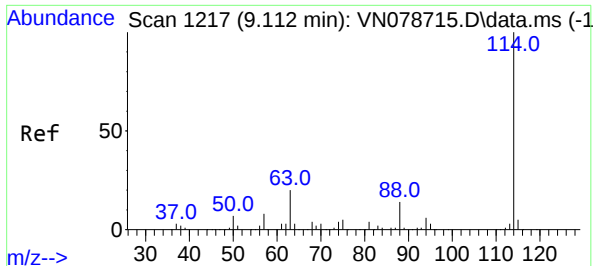
Tgt Ion: 65 Resp: 219909

Ion Ratio Lower Upper

65 100

67 51.7 42.9 64.3

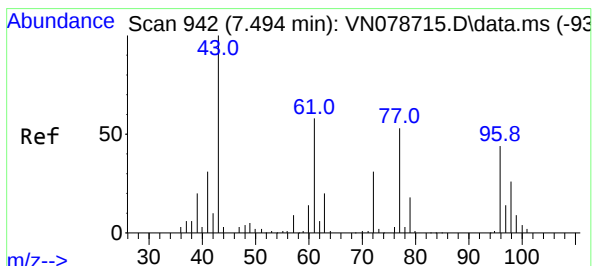
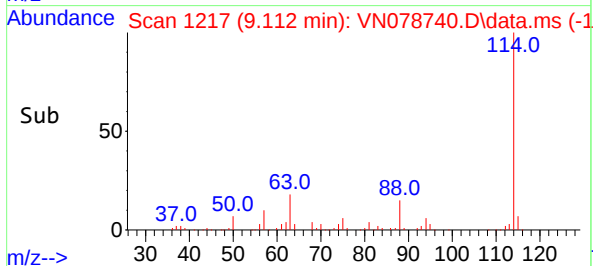
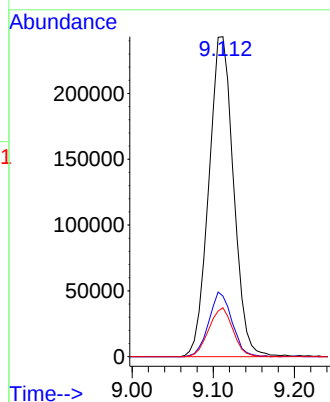
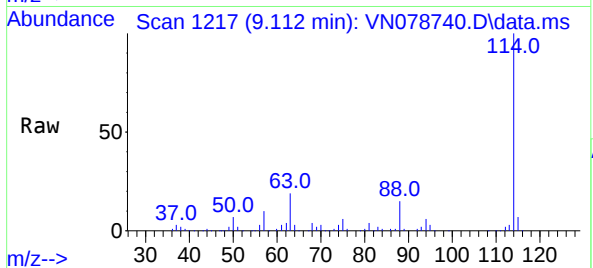




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

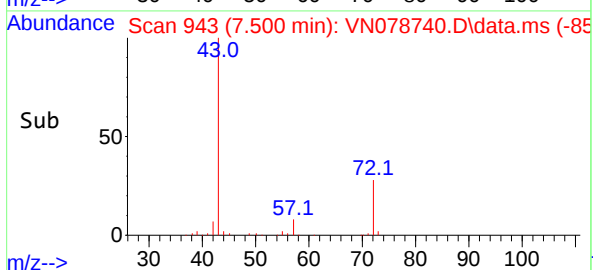
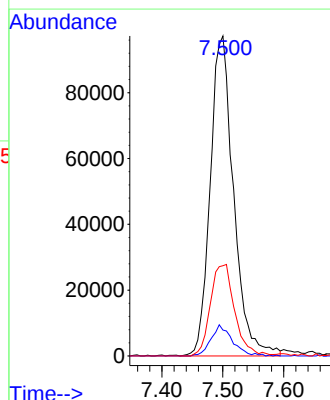
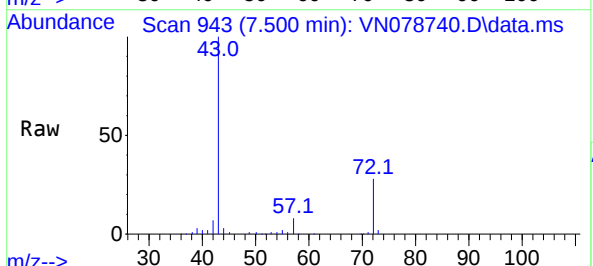
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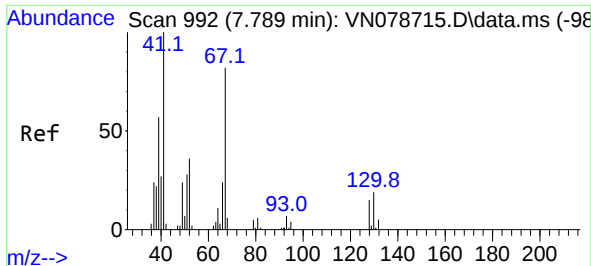
Tgt Ion:114 Resp: 514748
Ion Ratio Lower Upper
114 100
63 18.9 15.2 22.8
88 14.9 12.5 18.7



#30
2-Butanone
Concen: 86.685 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Tgt Ion: 43 Resp: 259544
Ion Ratio Lower Upper
43 100
57 8.6 6.8 10.2
72 29.3 23.8 35.6

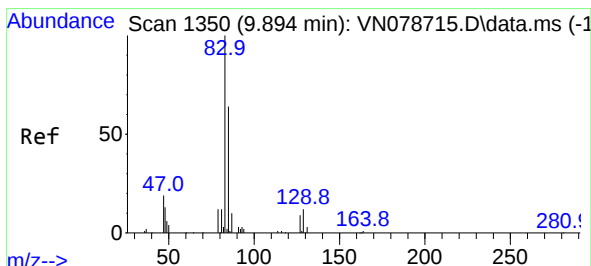
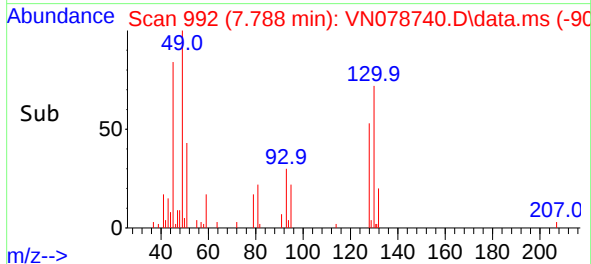
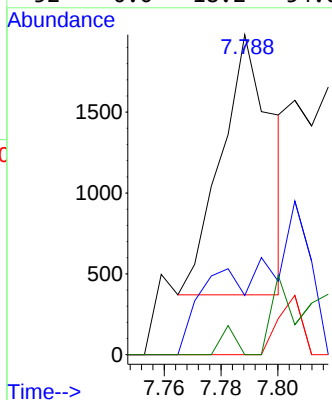
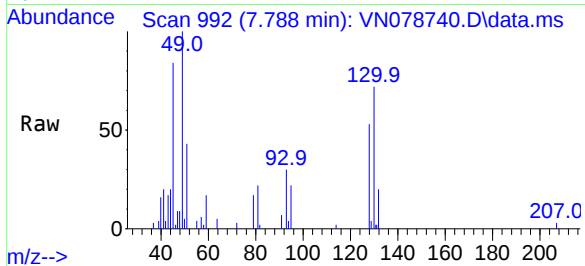




#35
Methacrylonitrile
Concen: 0.613 ug/l
RT: 7.788 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

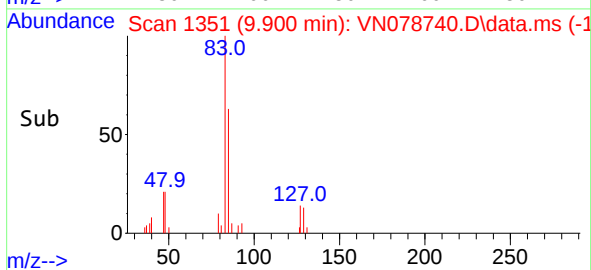
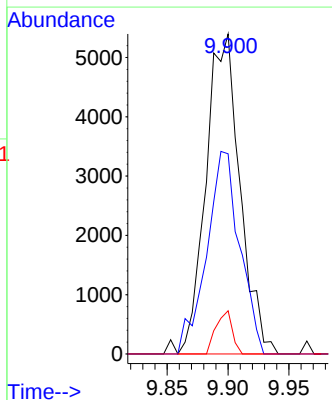
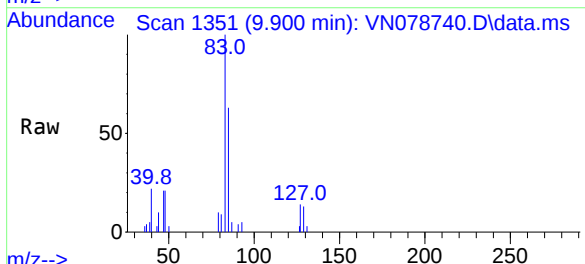
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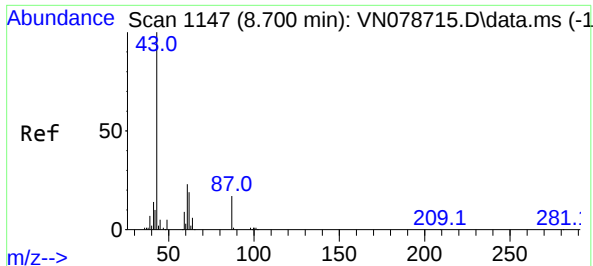
Tgt Ion:	41	Resp:	2015
Ion	Ratio	Lower	Upper
41	100		
39	22.7	33.9	101.6#
67	0.0	45.9	137.6#
52	0.0	18.2	54.6#



#41
Bromodichloromethane
Concen: 1.243 ug/l
RT: 9.900 min Scan# 1351
Delta R.T. 0.006 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Tgt Ion:	83	Resp:	10487
Ion	Ratio	Lower	Upper
83	100		
85	62.6	54.1	81.1
127	13.5	7.8	11.6#





#44

Isopropyl Acetate

Concen: 0.485 ug/l

RT: 8.706 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078740.D

Acq: 02 Aug 2023 20:27

Instrument :

MSVOA_N

ClientSampleId :

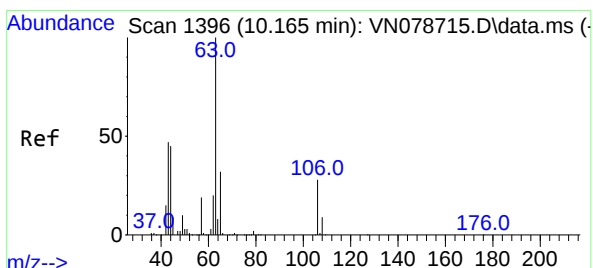
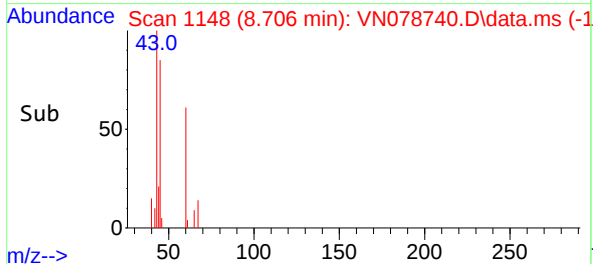
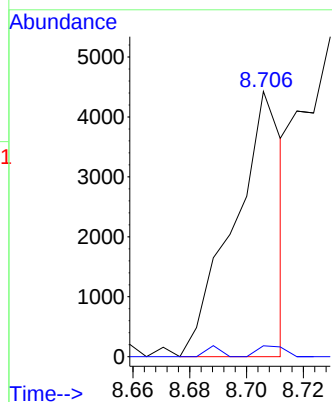
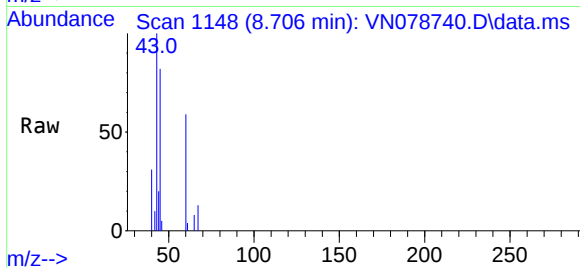
002-35TH-AVE-(JULY)

Tgt Ion: 43 Resp: 5264

Ion Ratio Lower Upper

43 100

61 2.3 23.0 34.6#



#55

2-Chloroethyl vinyl ether

Concen: 0.308 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.412 min

Lab File: VN078740.D

Acq: 02 Aug 2023 20:27

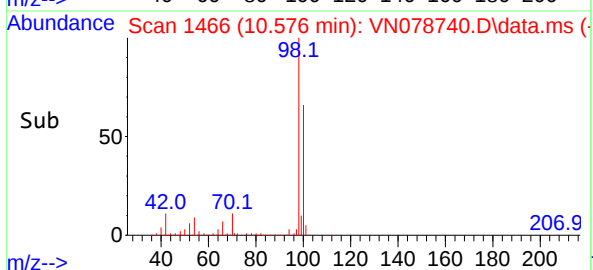
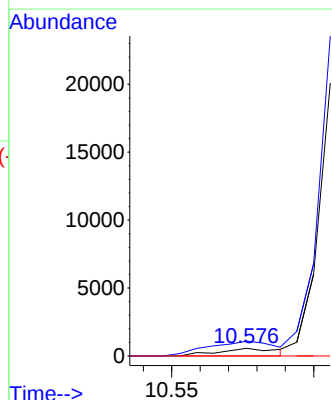
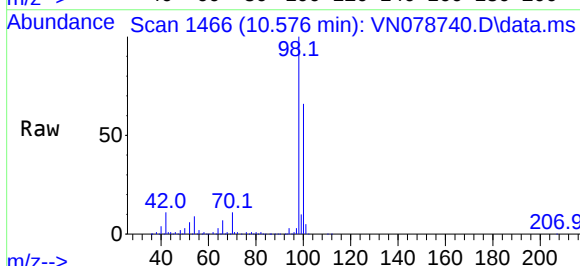
Tgt Ion: 63 Resp: 802

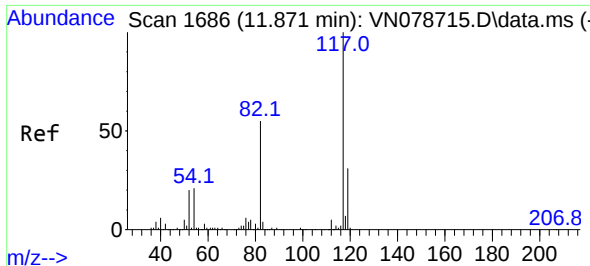
Ion Ratio Lower Upper

63 100

65 221.8 26.3 39.5#

106 0.0 23.8 35.6#

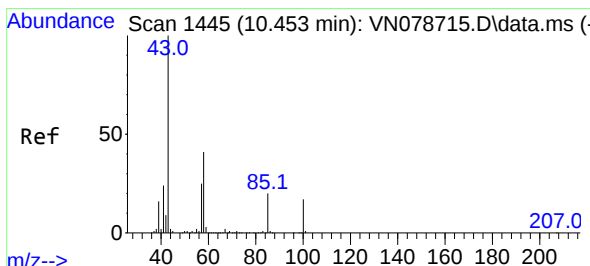
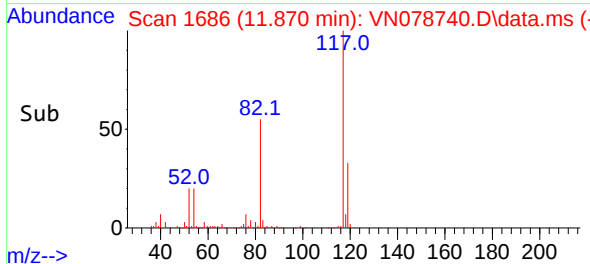
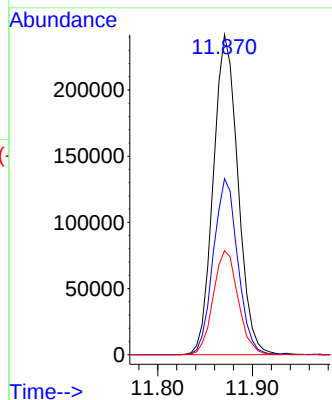
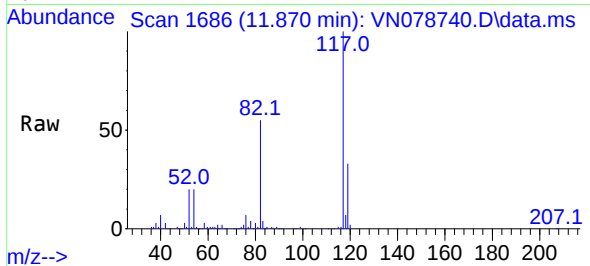




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

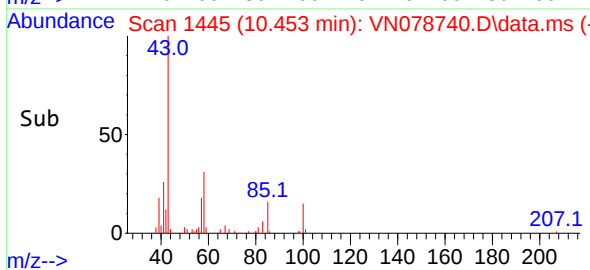
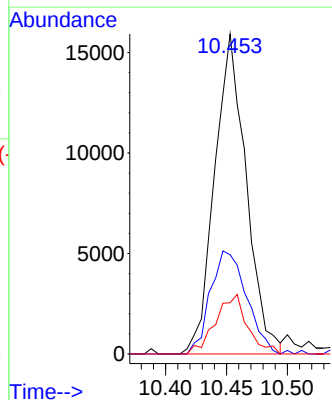
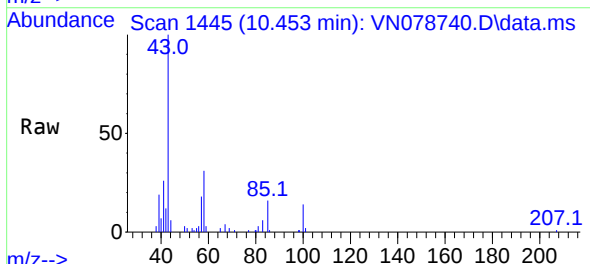
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

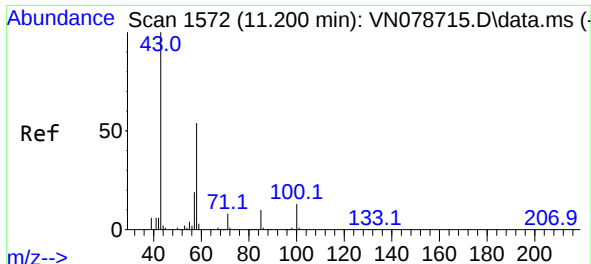
Tgt Ion:117 Resp: 437538
Ion Ratio Lower Upper
117 100
82 54.6 43.9 65.9
119 32.9 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 4.388 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Tgt Ion: 43 Resp: 28739
Ion Ratio Lower Upper
43 100
58 36.9 32.6 48.8
85 18.3 16.2 24.2





#59

2-Hexanone

Concen: 0.655 ug/l

RT: 11.200 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN078740.D

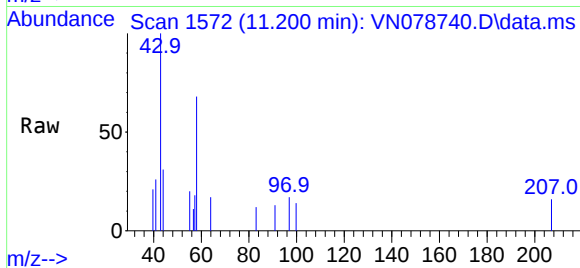
Acq: 02 Aug 2023 20:27

Instrument :

MSVOA_N

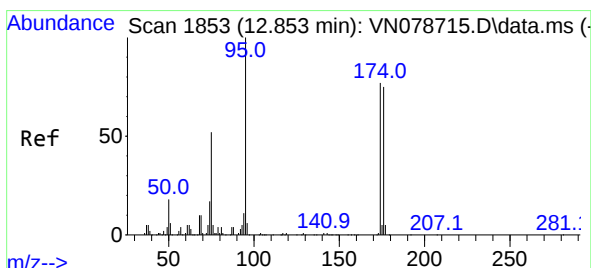
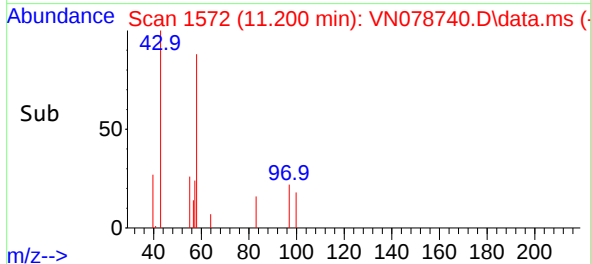
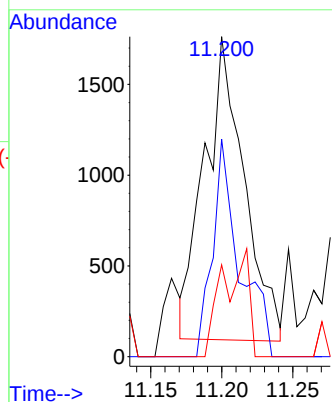
ClientSampleId :

002-35TH-AVE-(JULY)



Tgt Ion: 43 Resp: 3246

Ion	Ratio	Lower	Upper
43	100		
58	40.5	45.9	68.9#
57	11.9	15.8	23.6#



#60

4-Bromofluorobenzene

Concen: 23.785 ug/l

RT: 12.853 min Scan# 1853

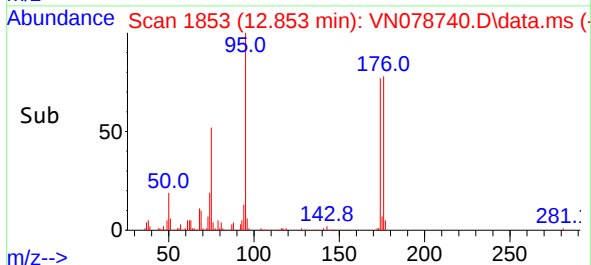
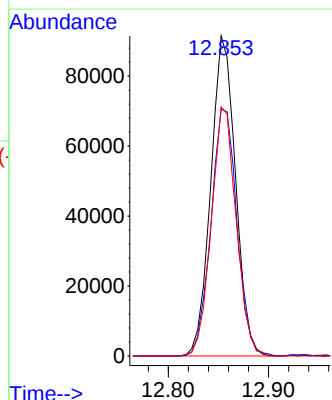
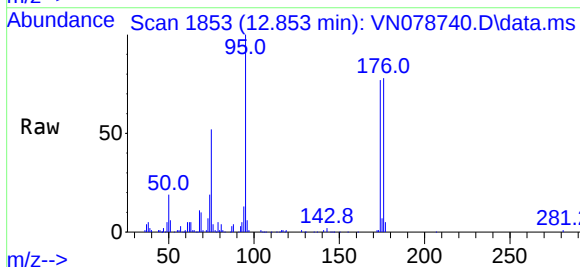
Delta R.T. -0.000 min

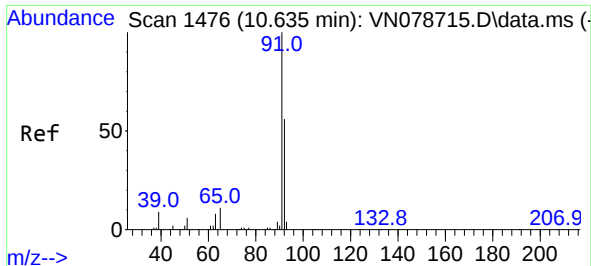
Lab File: VN078740.D

Acq: 02 Aug 2023 20:27

Tgt Ion: 95 Resp: 155963

Ion	Ratio	Lower	Upper
95	100		
174	81.4	61.7	92.5
176	78.6	58.1	87.1

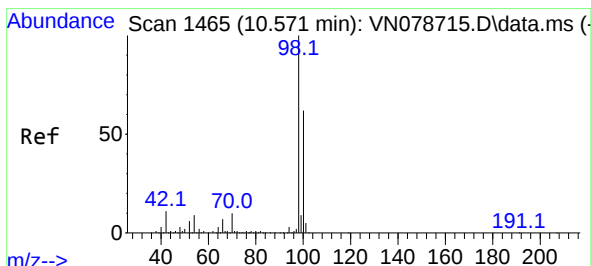
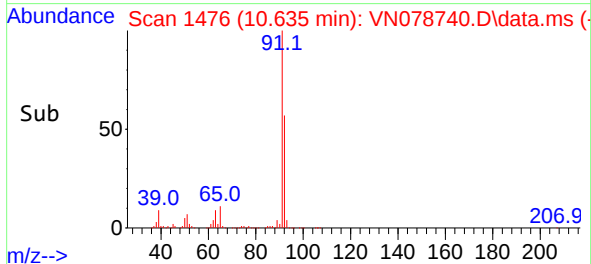
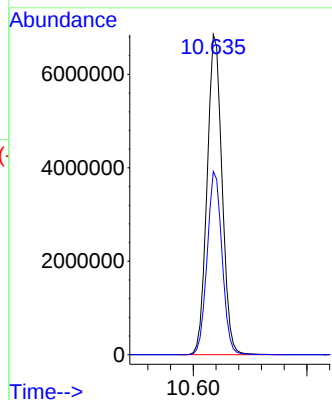
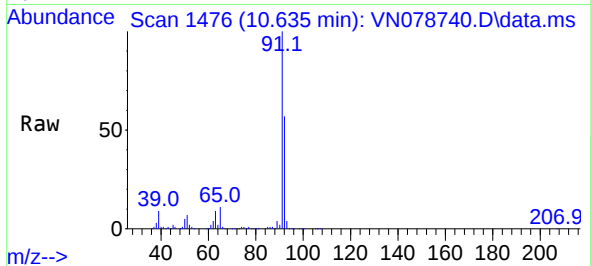




#62
Toluene
Concen: 473.609 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

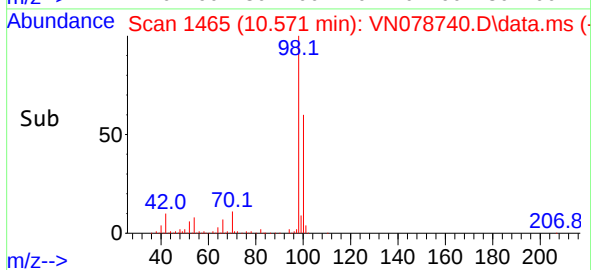
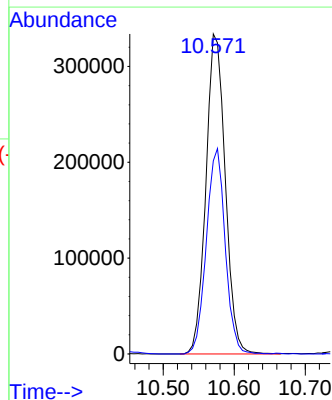
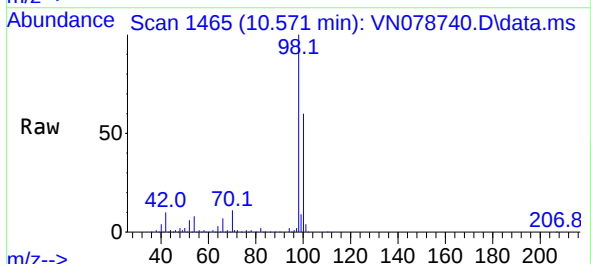
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

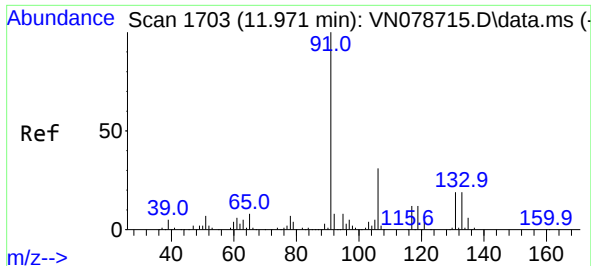
Tgt Ion: 91 Resp:12464620
Ion Ratio Lower Upper
91 100
92 57.1 45.2 67.8



#63
Toluene-d8
Concen: 29.302 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Tgt Ion: 98 Resp: 633348
Ion Ratio Lower Upper
98 100
100 62.5 49.7 74.5

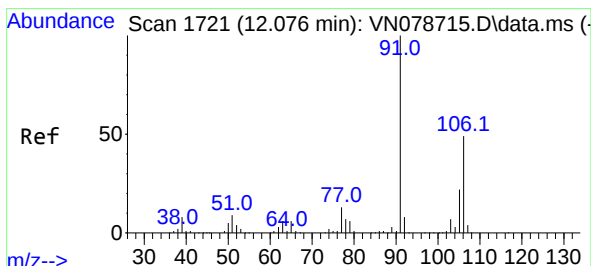
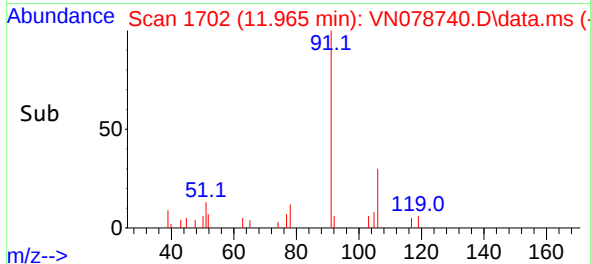
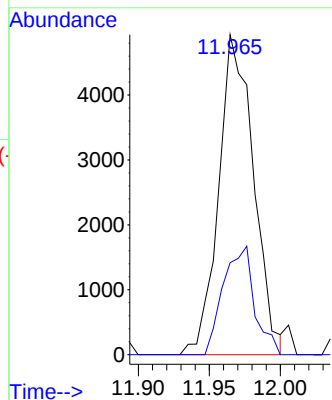
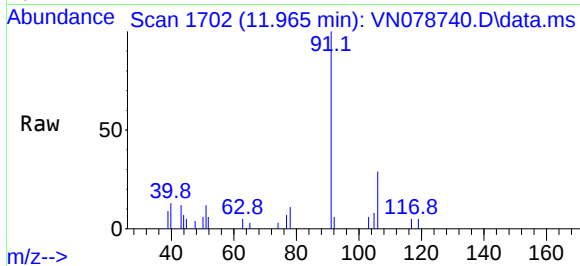




#66
Ethyl Benzene
Concen: 0.317 ug/l
RT: 11.965 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

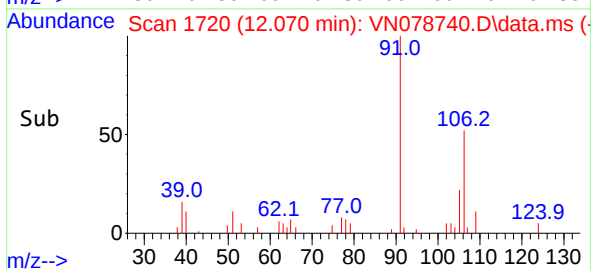
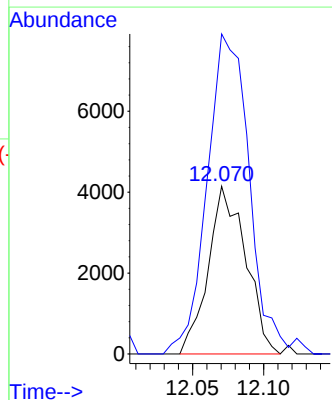
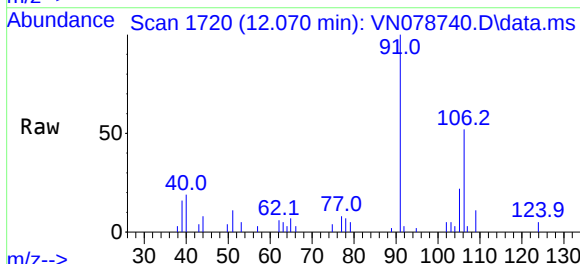
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

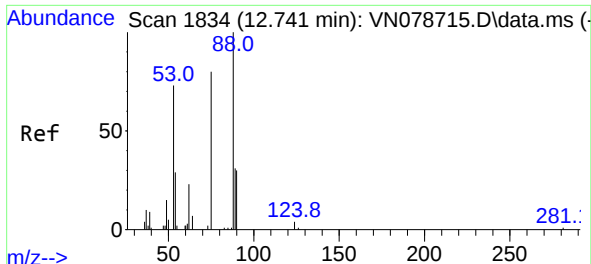
Tgt Ion: 91 Resp: 8413
Ion Ratio Lower Upper
91 100
106 28.8 25.6 38.4



#67
m/p-Xylenes
Concen: 0.751 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.006 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Tgt Ion: 106 Resp: 7614
Ion Ratio Lower Upper
106 100
91 212.9 162.5 243.7

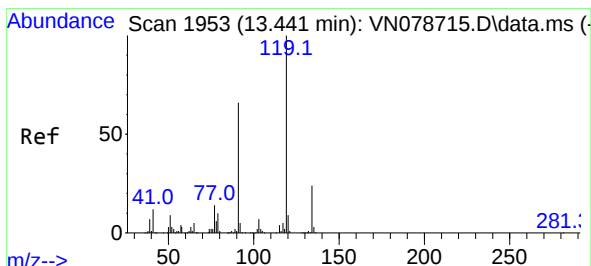
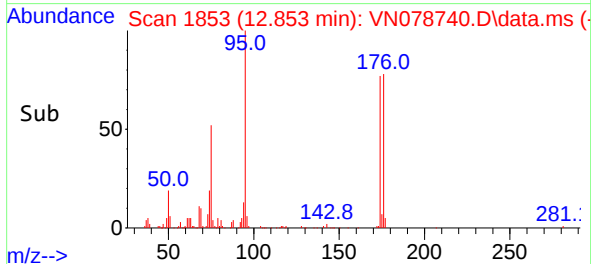
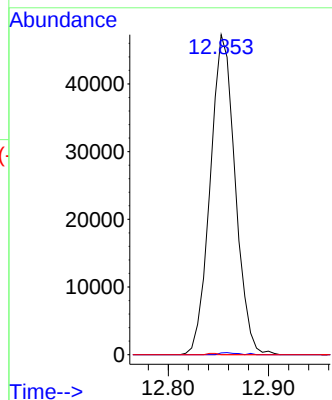
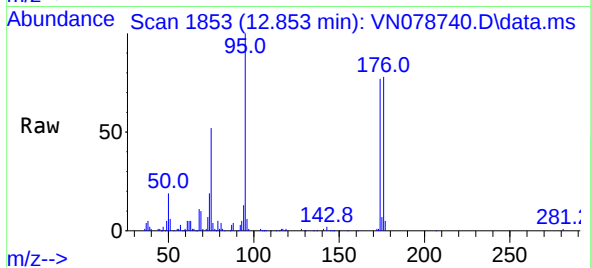




#77
t-1,4-Dichloro-2-butene
Concen: 33.714 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

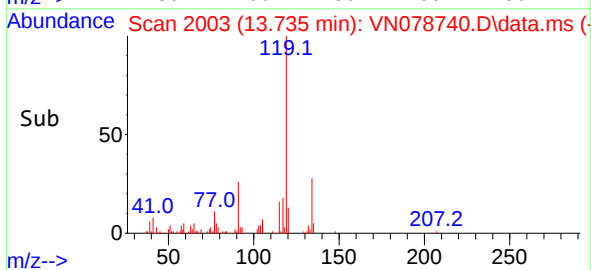
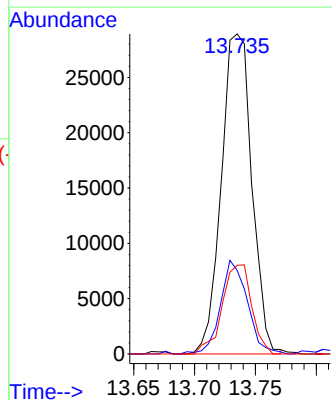
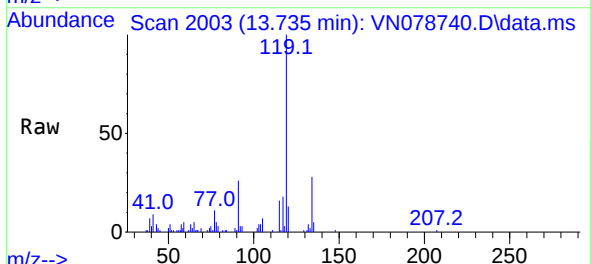
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

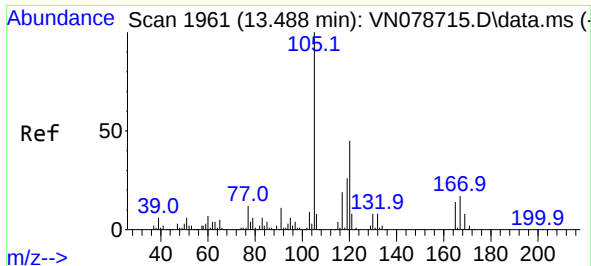
Tgt Ion: 75 Resp: 81889
Ion Ratio Lower Upper
75 100
53 0.6 41.6 124.9#
89 0.0 25.1 75.4#



#79
tert-butylbenzene
Concen: 2.574 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Tgt Ion: 119 Resp: 50444
Ion Ratio Lower Upper
119 100
91 25.5 0.0 126.6
134 26.9 0.0 44.0

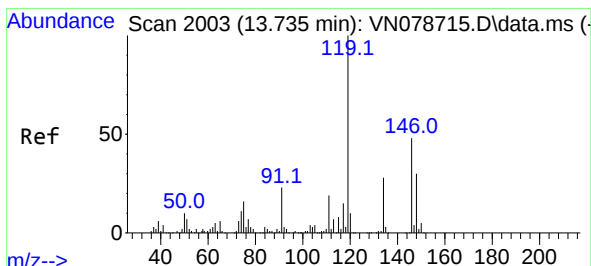
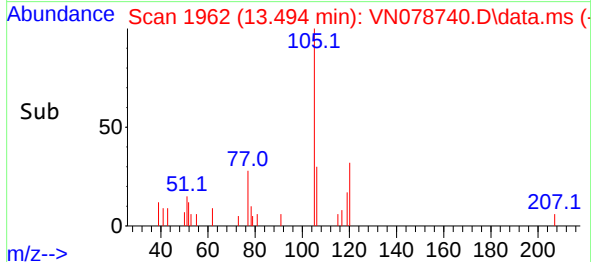
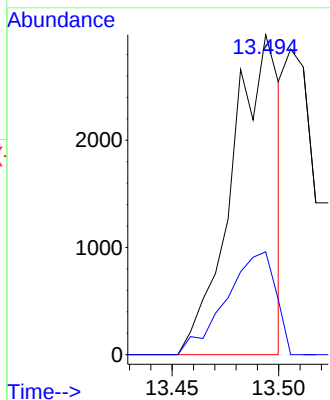
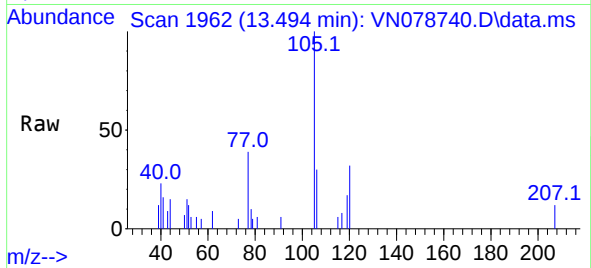




#80
1,2,4-Trimethylbenzene
Concen: 0.213 ug/l
RT: 13.494 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

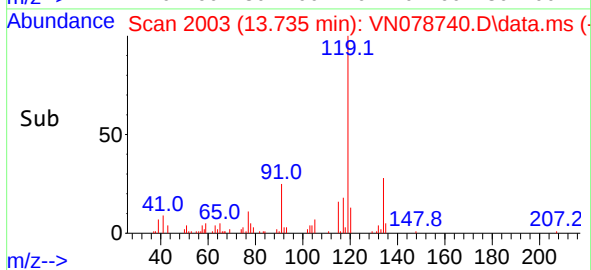
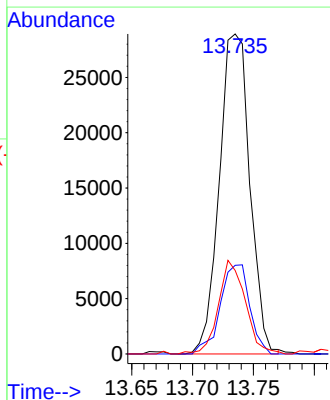
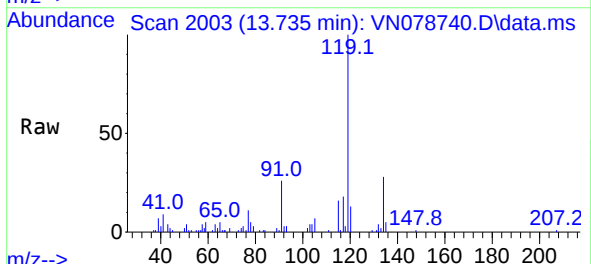
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

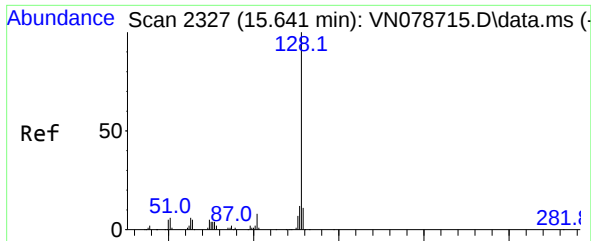
Tgt Ion:105 Resp: 4635
Ion Ratio Lower Upper
105 100
120 33.4 0.0 88.2



#82
p-Isopropyltoluene
Concen: 2.446 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

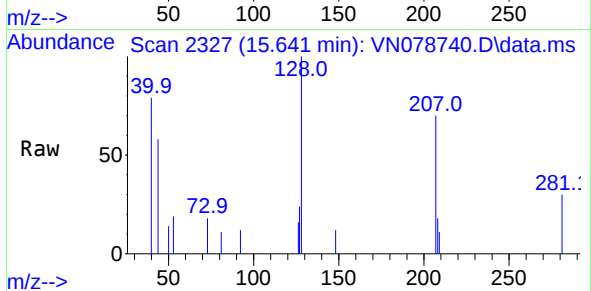
Tgt Ion:119 Resp: 50444
Ion Ratio Lower Upper
119 100
134 26.9 0.0 52.4
91 25.5 0.0 48.2





#91
Naphthalene
Concen: 0.234 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078740.D
Acq: 02 Aug 2023 20:27

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)



Tgt Ion:	128	Resp:	2095
Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.2	15.2
129	5.9	9.0	13.4#

