

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042924\
 Data File : VN081913.D
 Acq On : 29 Apr 2024 14:44
 Operator : JC\MD
 Sample : P2290-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 30 04:37:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

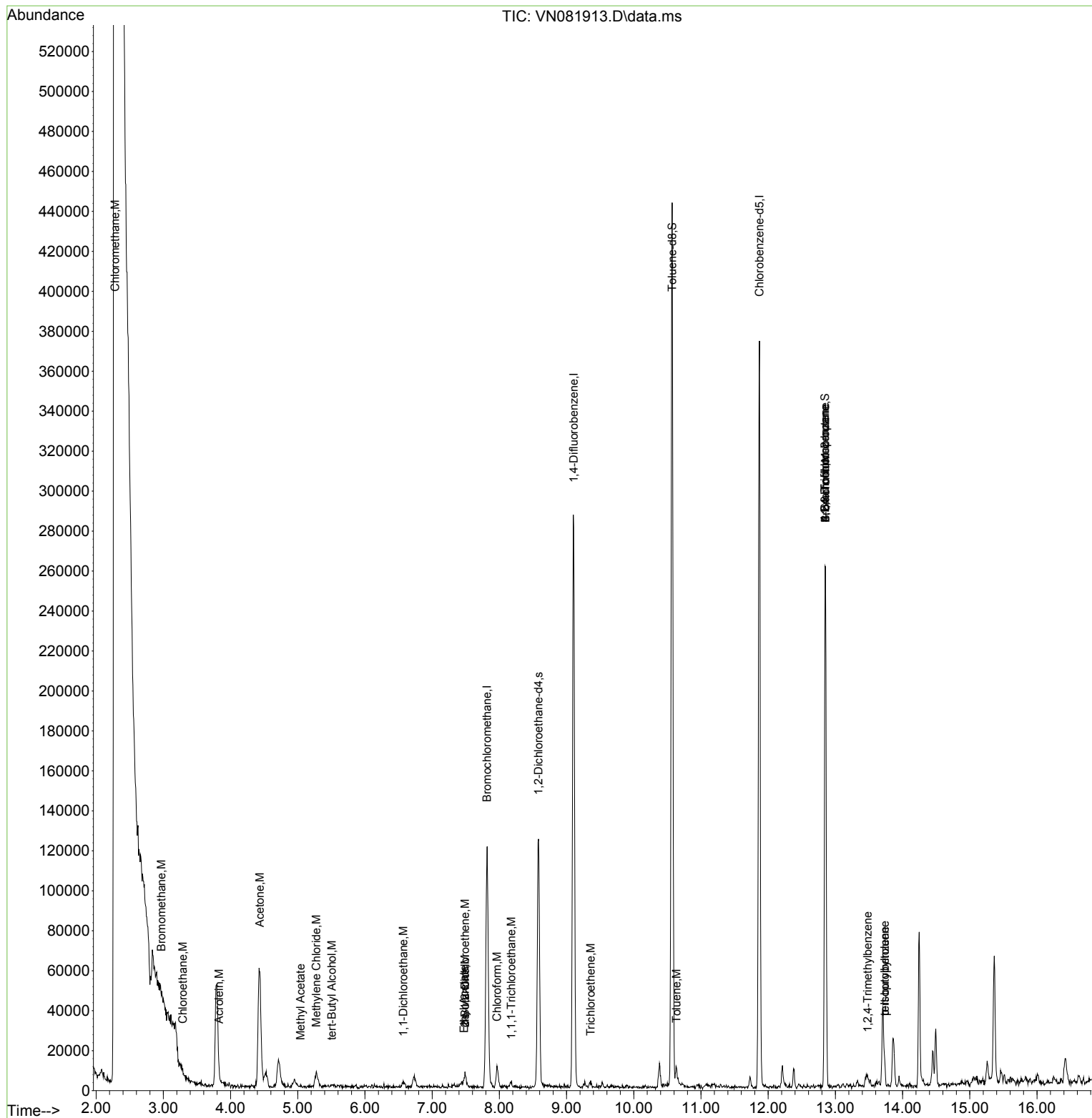
Internal Standards						
1) Bromochloromethane	7.818	128	40713	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	244478	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	205833	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	102380	30.035	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.100%
60) 4-Bromofluorobenzene	12.847	95	98537	28.766	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.900%
63) Toluene-d8	10.571	98	297569	30.442	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.467%
Target Compounds						Qvalue
3) Chloromethane	2.283	50	289710	108.094	ug/l #	44
5) Bromomethane	2.971	94	406	0.307	ug/l #	68
6) Chloroethane	3.289	64	555	0.387	ug/l	89
12) Methyl Acetate	5.042	43	725	0.233	ug/l #	40
13) Acrolein	3.830	56	156	0.236	ug/l	92
15) Acetone	4.436	58	17278	54.299	ug/l	84
18) Methylene Chloride	5.277	84	1659	0.587	ug/l #	68
21) 1,1-Dichloroethane	6.571	63	3267	0.639	ug/l #	85
22) cis-1,2-Dichloroethene	7.488	96	1086	0.345	ug/l #	45
23) tert-Butyl Alcohol	5.506	59	289	0.494	ug/l #	100
25) Chloroform	7.965	83	8937	1.818	ug/l	86
30) 2-Butanone	7.488	43	484	0.258	ug/l #	4
32) 1,1,1-Trichloroethane	8.177	97	1534	0.366	ug/l #	82
37) Trichloroethene	9.359	130	1080	0.380	ug/l #	69
43) Ethyl Acetate	7.477	43	1915	0.468	ug/l	94
56) Bromoform	12.853	173	430	0.250	ug/l #	1
62) Toluene	10.635	91	6899	0.596	ug/l	90
72) 1,2,3-Trichloropropane	12.847	75	52915	16.630	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	52915	37.363	ug/l #	12
79) tert-butylbenzene	13.735	119	7047	0.855	ug/l	52
80) 1,2,4-Trimethylbenzene	13.482	105	2404	0.250	ug/l	61
82) p-Isopropyltoluene	13.735	119	7047	0.771	ug/l	89

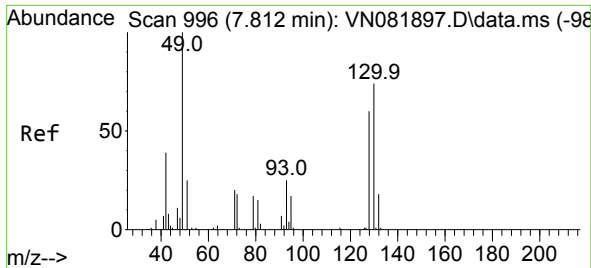
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Apr 30 04:37:55 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 27 04:37:27 2024
Response via : Initial Calibration

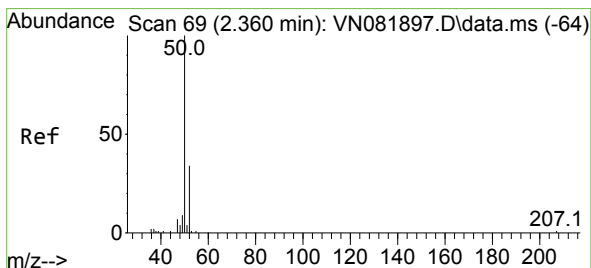
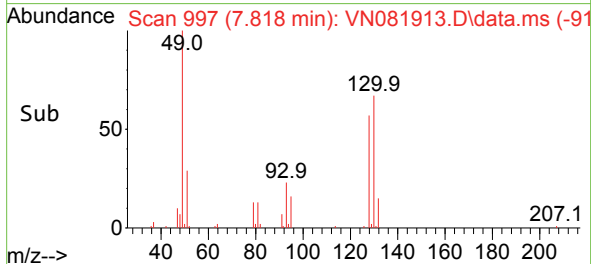
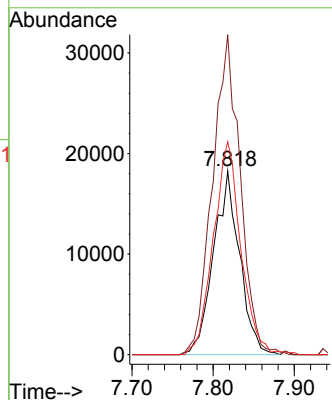
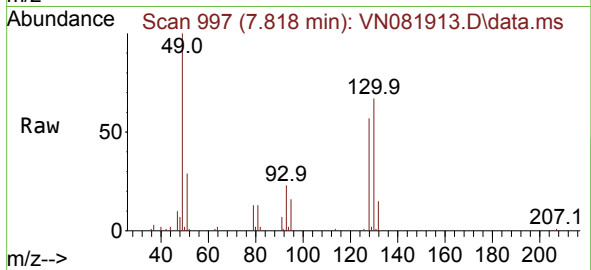




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

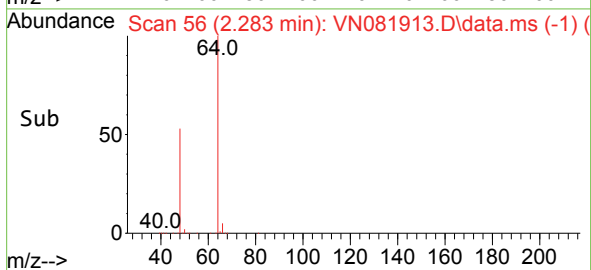
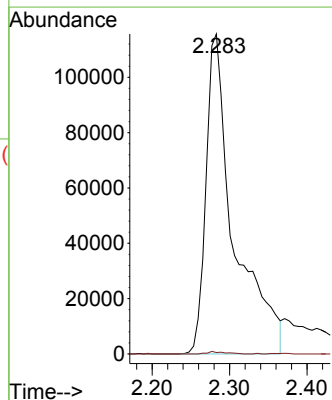
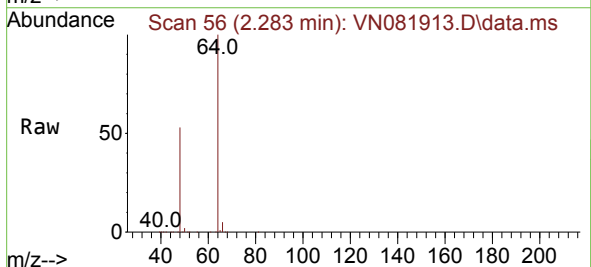
Instrument :
MSVOA_N
ClientSampleId :

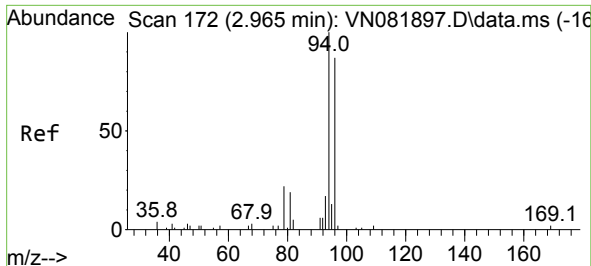
Tgt Ion:128 Resp: 40713
Ion Ratio Lower Upper
128 100
49 184.6 0.0 403.7
130 122.0 0.0 323.3



#3
Chloromethane
Concen: 108.094 ug/l
RT: 2.283 min Scan# 56
Delta R.T. -0.077 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

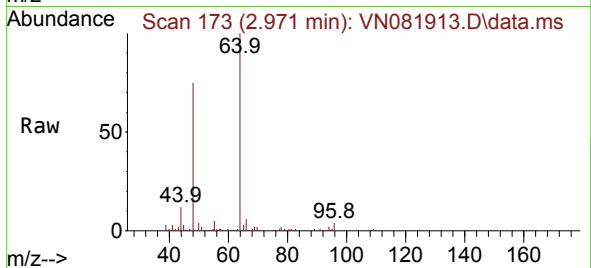
Tgt Ion: 50 Resp: 289710
Ion Ratio Lower Upper
50 100
52 0.4 25.4 38.0#



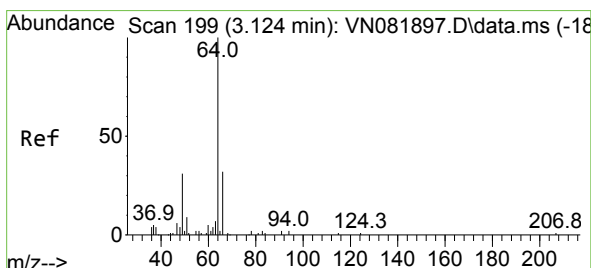
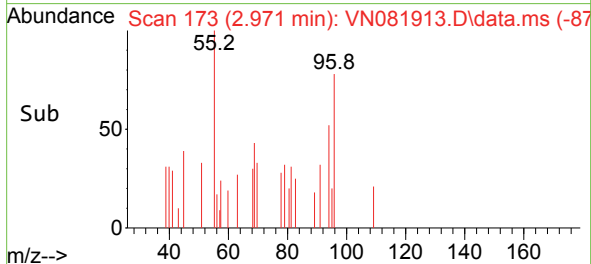
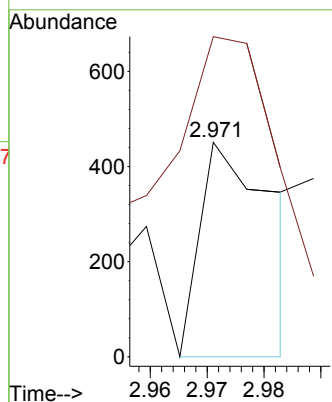


#5
Bromomethane
Concen: 0.307 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Instrument :
MSVOA_N
ClientSampleId :

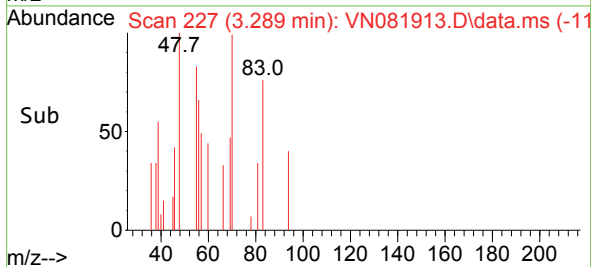
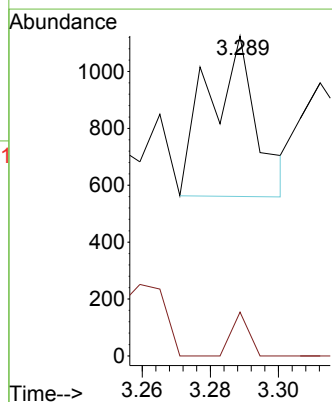
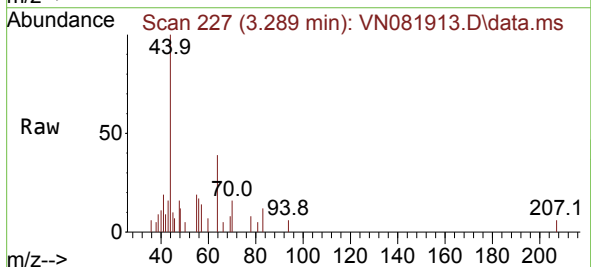


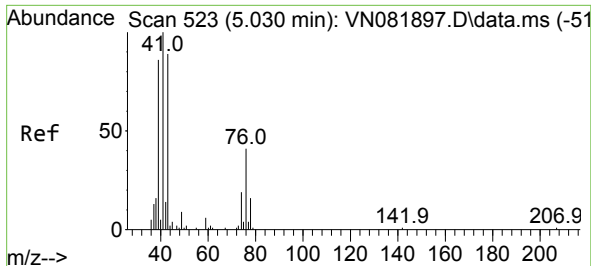
Tgt Ion: 94 Resp: 406
Ion Ratio Lower Upper
94 100
96 61.0 72.8 109.2#



#6
Chloroethane
Concen: 0.387 ug/l
RT: 3.289 min Scan# 227
Delta R.T. 0.165 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Tgt Ion: 64 Resp: 555
Ion Ratio Lower Upper
64 100
66 27.4 26.7 40.1





#12

Methyl Acetate

Concen: 0.233 ug/l

RT: 5.042 min Scan# 51

Delta R.T. 0.012 min

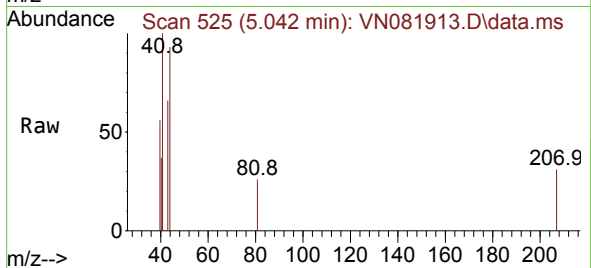
Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

Instrument :

MSVOA_N

ClientSampleId :

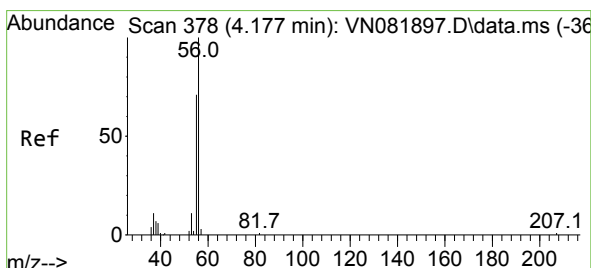
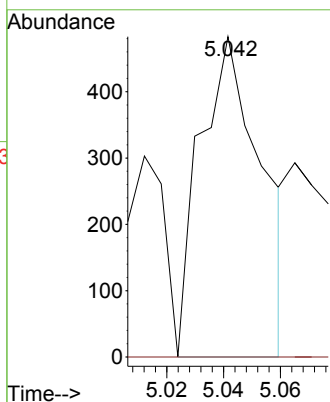
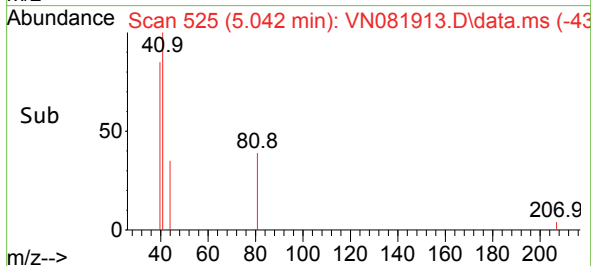


Tgt Ion: 43 Resp: 725

Ion Ratio Lower Upper

43 100

74 0.0 27.7 41.5#



#13

Acrolein

Concen: 0.236 ug/l

RT: 3.830 min Scan# 319

Delta R.T. -0.347 min

Lab File: VN081913.D

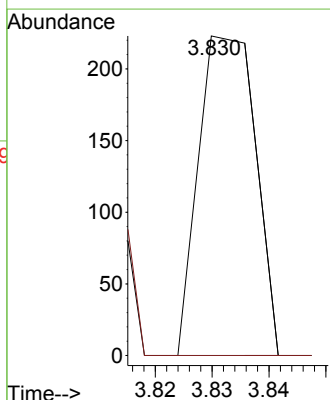
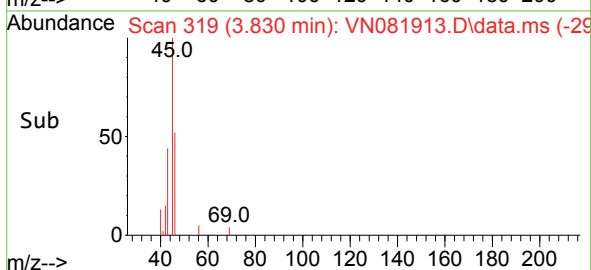
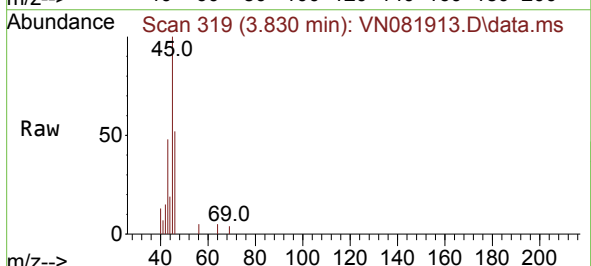
Acq: 29 Apr 2024 14:44

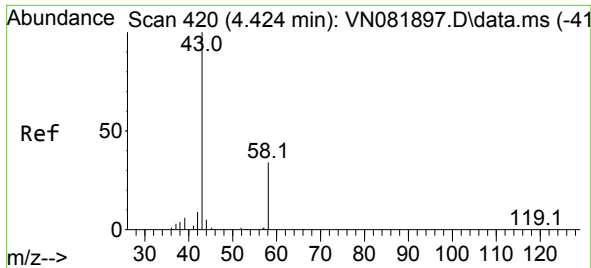
Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

55 76.3 55.5 83.3





#15

Acetone

Concen: 54.299 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

Instrument :

MSVOA_N

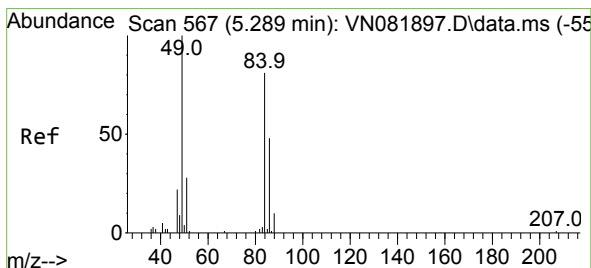
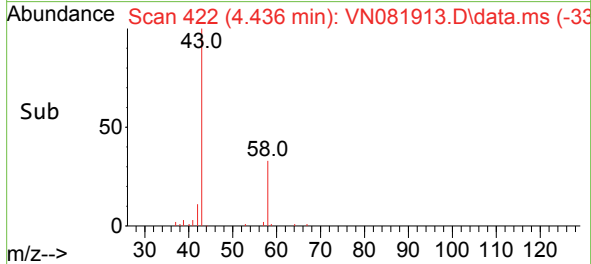
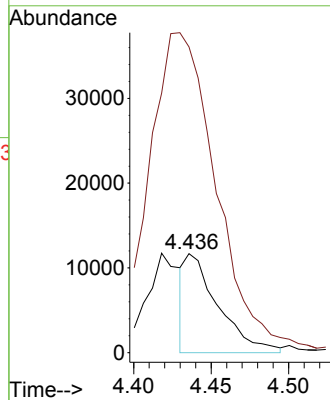
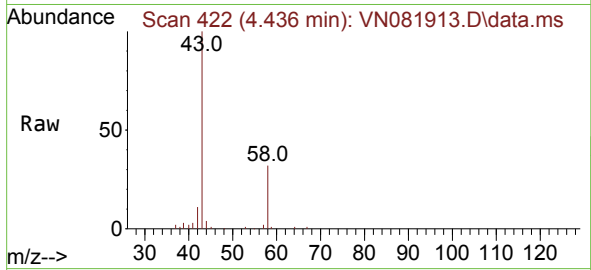
ClientSampleId :

Tgt Ion: 58 Resp: 17278

Ion Ratio Lower Upper

58 100

43 308.4 223.1 334.7



#18

Methylene Chloride

Concen: 0.587 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.012 min

Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

Tgt Ion: 84 Resp: 1659

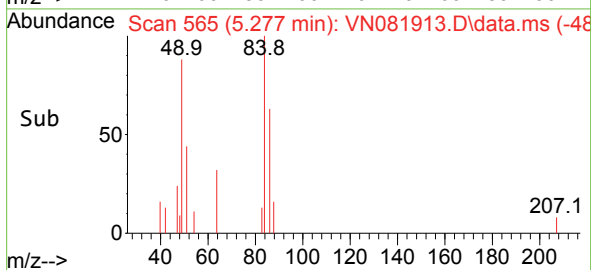
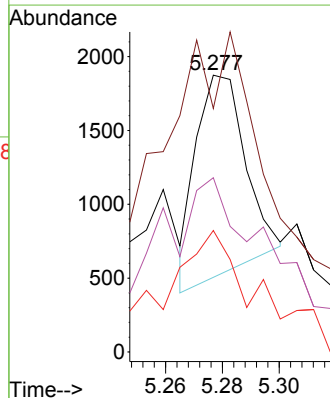
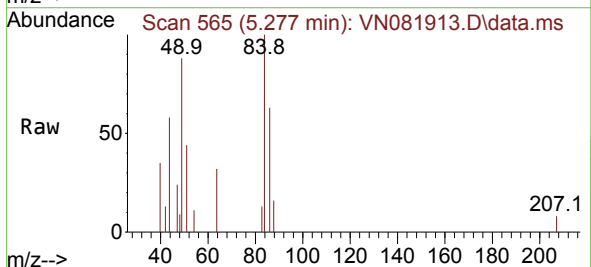
Ion Ratio Lower Upper

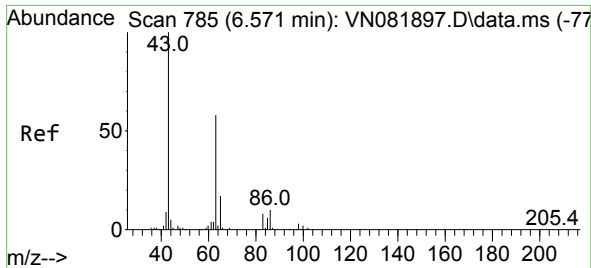
84 100

49 64.1 86.0 129.0#

51 51.7 30.0 45.0#

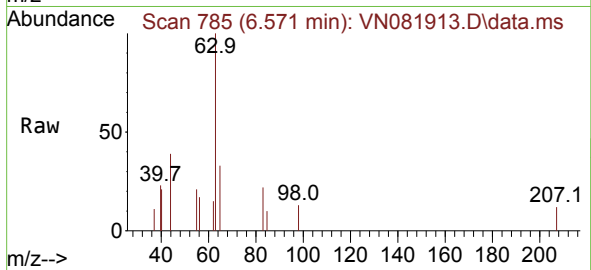
86 50.1 53.0 79.4#



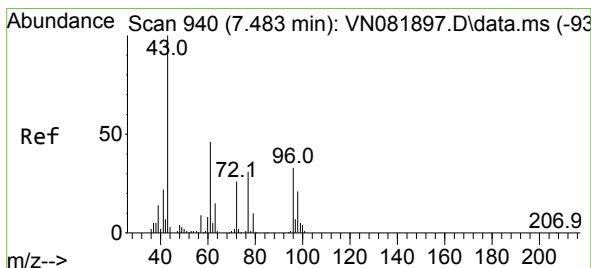
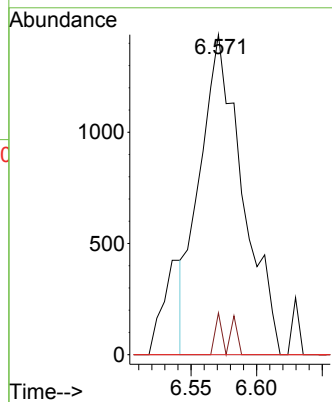
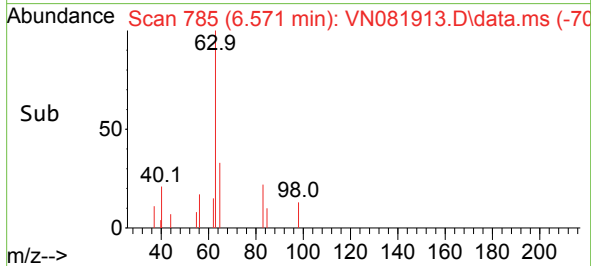


#21
1,1-Dichloroethane
Concen: 0.639 ug/l
RT: 6.571 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

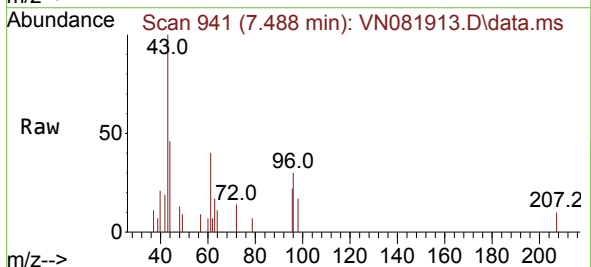
Instrument :
MSVOA_N
ClientSampleId :



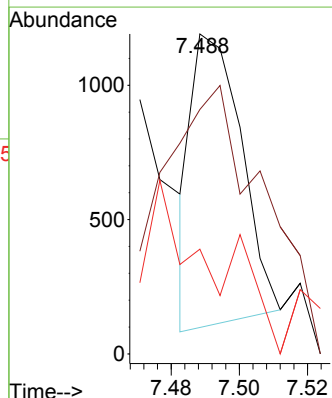
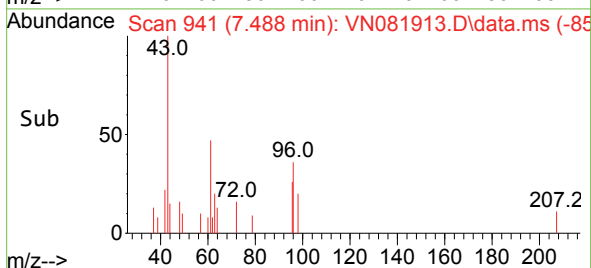
Tgt Ion: 63 Resp: 3267
Ion Ratio Lower Upper
63 100
98 13.1 4.1 12.3#
100 0.0 3.0 9.0#

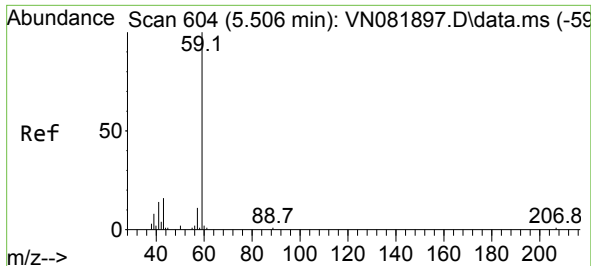


#22
cis-1,2-Dichloroethene
Concen: 0.345 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44



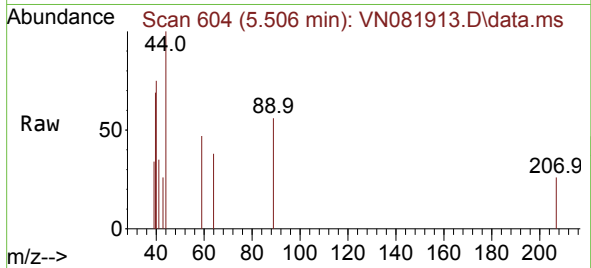
Tgt Ion: 96 Resp: 1086
Ion Ratio Lower Upper
96 100
61 209.6 113.5 170.3#
98 21.7 52.0 78.0#



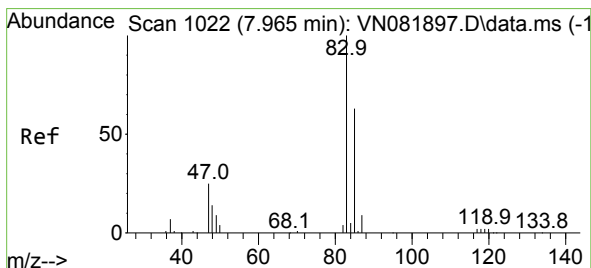
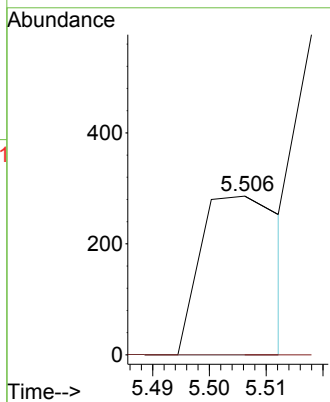
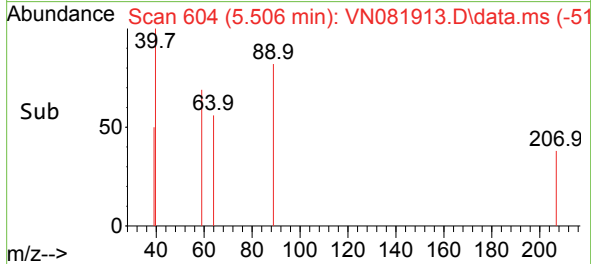


#23
tert-Butyl Alcohol
Concen: 0.494 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.000 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Instrument :
MSVOA_N
ClientSampleId :

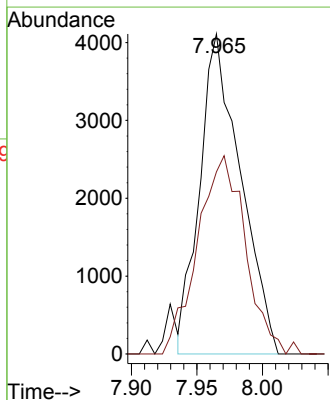
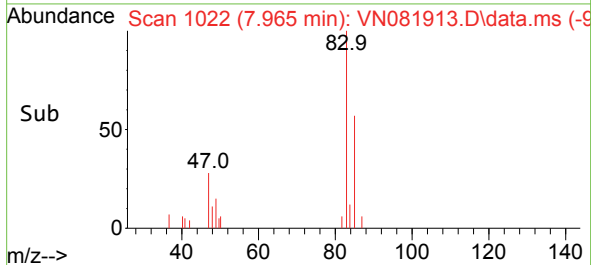
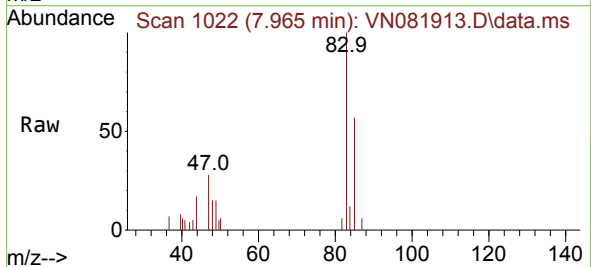


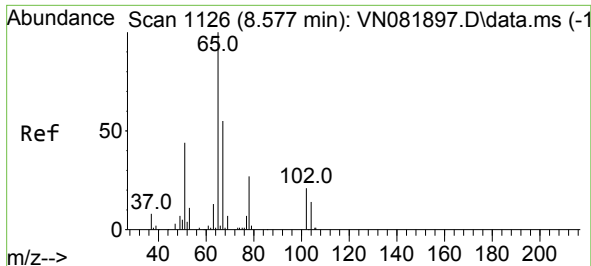
Tgt Ion: 59 Resp: 289
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.818 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Tgt Ion: 83 Resp: 8937
Ion Ratio Lower Upper
83 100
85 52.4 50.9 76.3





#27

1,2-Dichloroethane-d4

Concen: 30.035 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

Instrument :

MSVOA_N

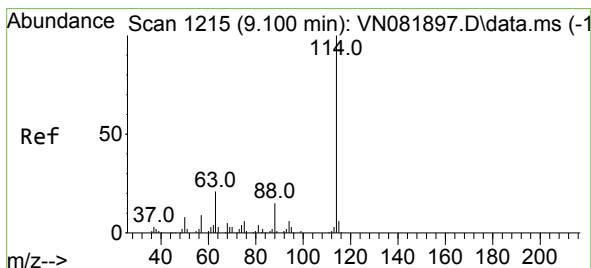
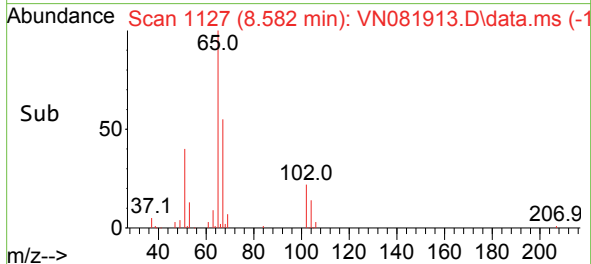
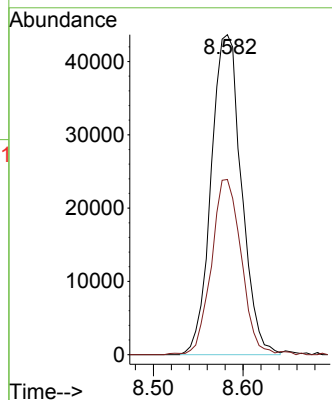
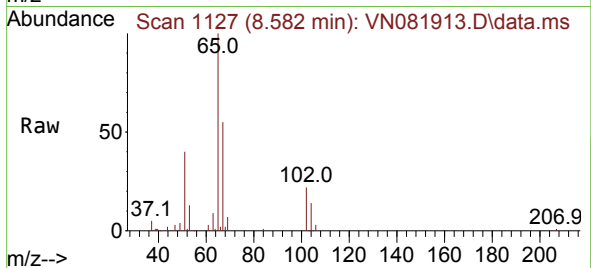
ClientSampleId :

Tgt Ion: 65 Resp: 102380

Ion Ratio Lower Upper

65 100

67 53.4 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

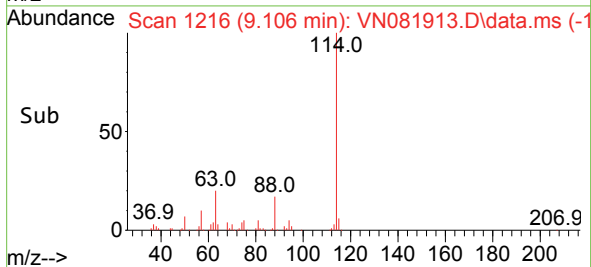
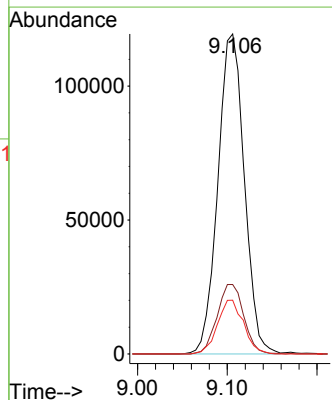
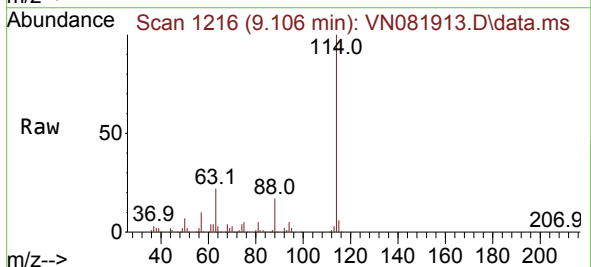
Tgt Ion:114 Resp: 244478

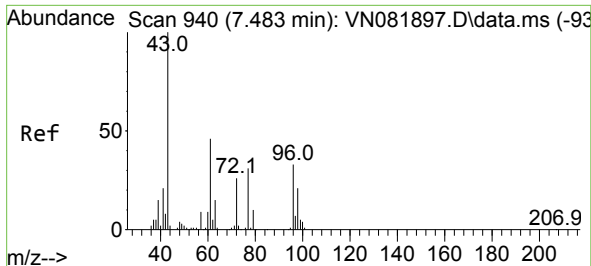
Ion Ratio Lower Upper

114 100

63 21.9 15.9 23.9

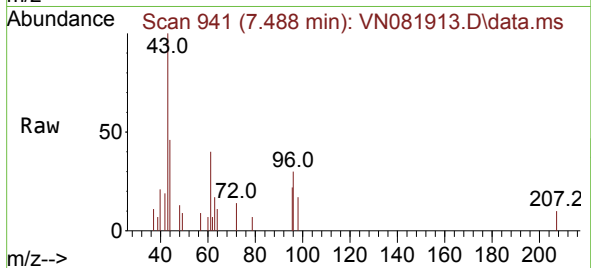
88 16.5 12.7 19.1



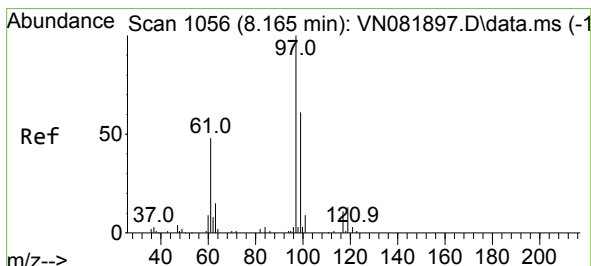
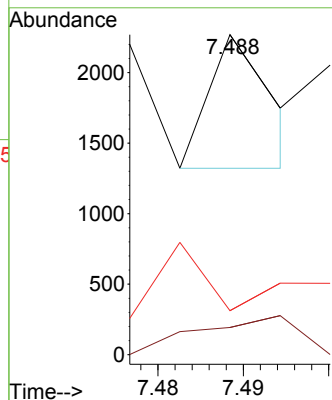
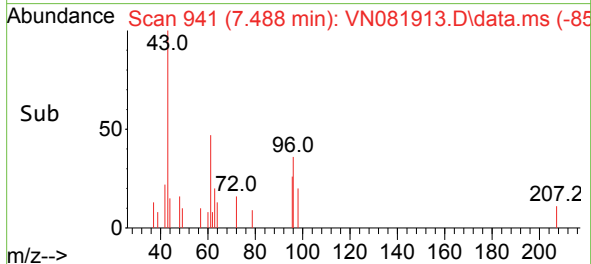


#30
2-Butanone
Concen: 0.258 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Instrument :
MSVOA_N
ClientSampleId :

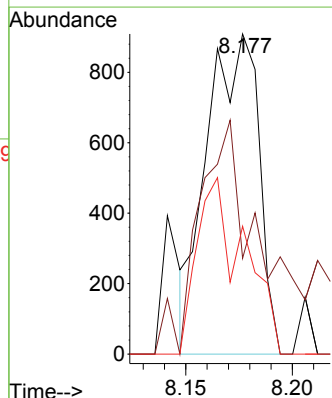
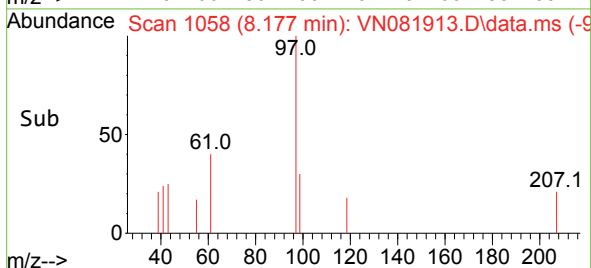
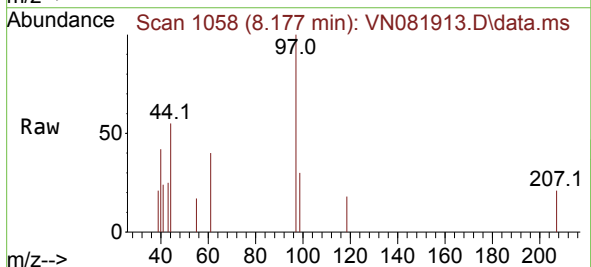


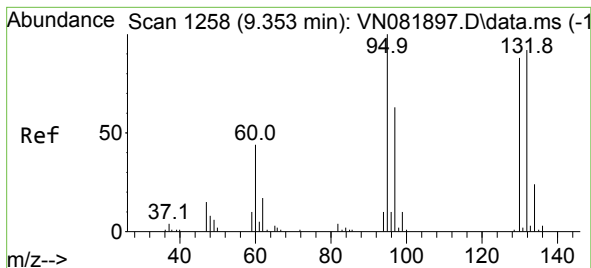
Tgt Ion: 43 Resp: 484
Ion Ratio Lower Upper
43 100
57 46.1 6.7 10.1#
72 80.8 24.0 36.0#



#32
1,1,1-Trichloroethane
Concen: 0.366 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.012 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Tgt Ion: 97 Resp: 1534
Ion Ratio Lower Upper
97 100
99 67.7 51.0 76.4
61 18.3 33.8 50.8#





#37

Trichloroethene

Concen: 0.380 ug/l

RT: 9.359 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

Instrument :

MSVOA_N

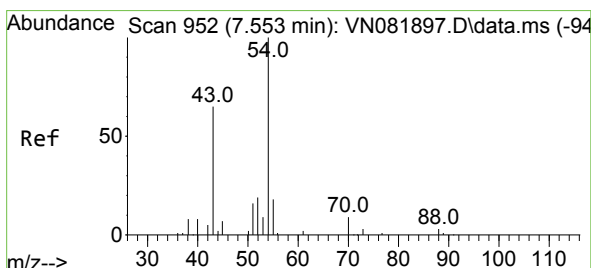
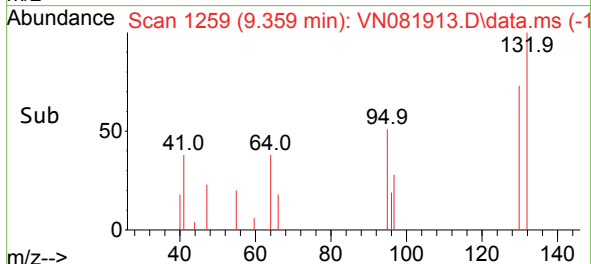
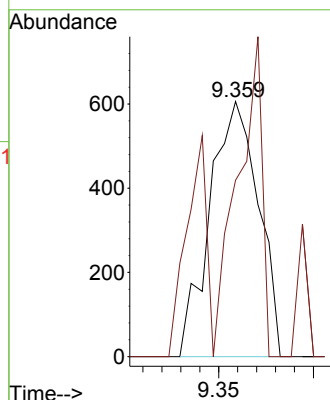
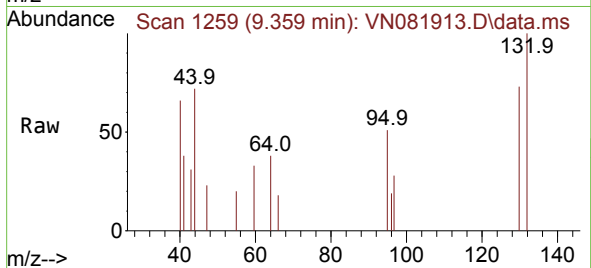
ClientSampleId :

Tgt Ion:130 Resp: 1080

Ion Ratio Lower Upper

130 100

95 69.1 80.2 120.4#



#43

Ethyl Acetate

Concen: 0.468 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.077 min

Lab File: VN081913.D

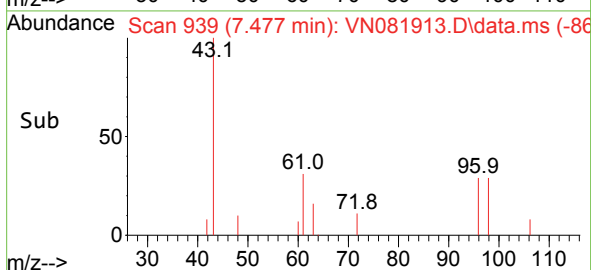
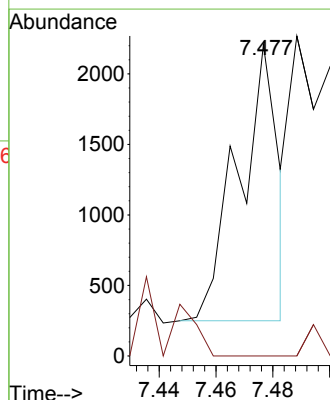
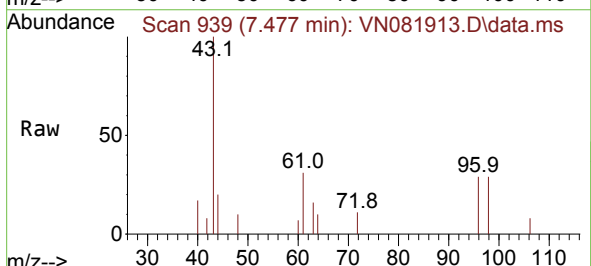
Acq: 29 Apr 2024 14:44

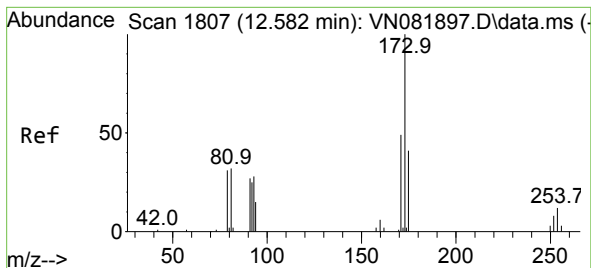
Tgt Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

45 10.9 10.6 15.8





#56

Bromoform

Concen: 0.250 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.270 min

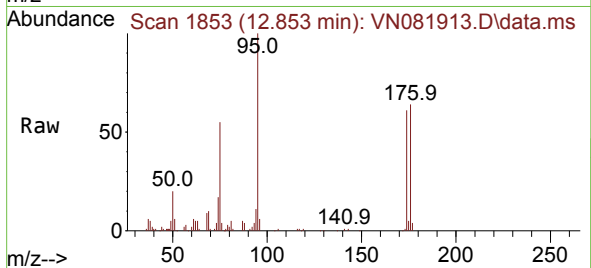
Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

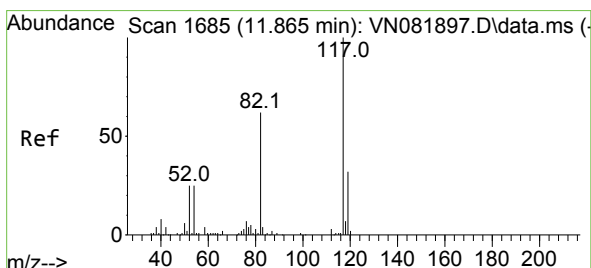
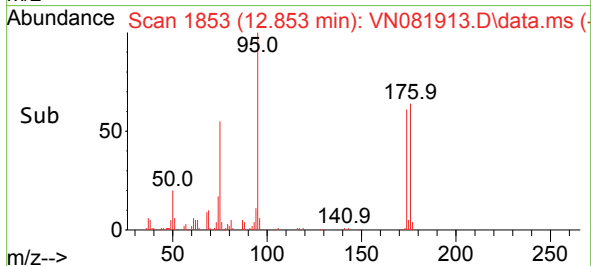
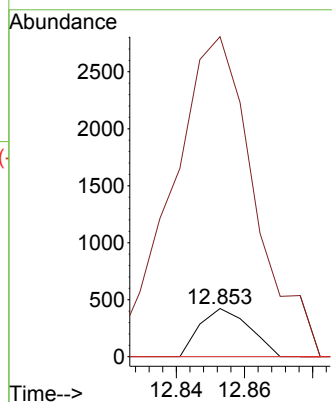
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	430
Ion Ratio	Lower	Upper	
173	100		
175	1097.9	40.0	60.0#
254	0.0	8.3	12.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

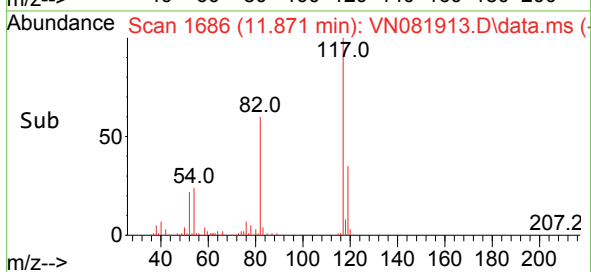
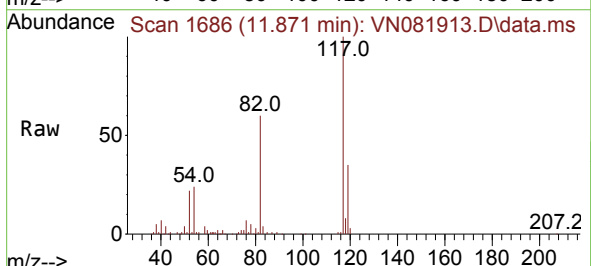
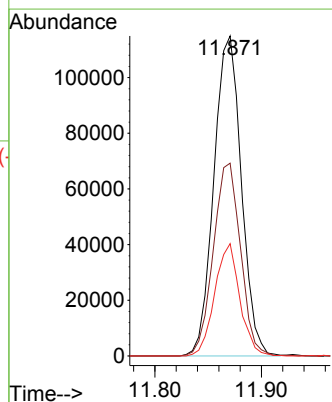
RT: 11.871 min Scan# 1686

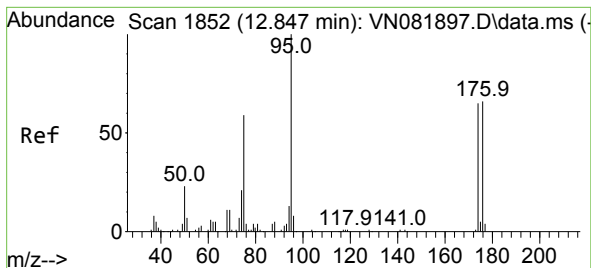
Delta R.T. 0.006 min

Lab File: VN081913.D

Acq: 29 Apr 2024 14:44

Tgt Ion:	117	Resp:	205833
Ion Ratio	Lower	Upper	
117	100		
82	59.6	46.6	69.8
119	32.1	25.4	38.2

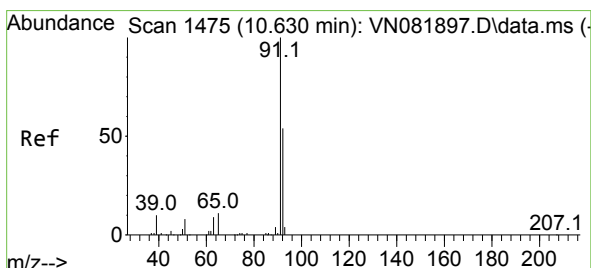
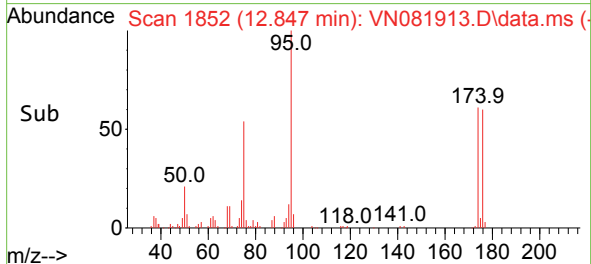
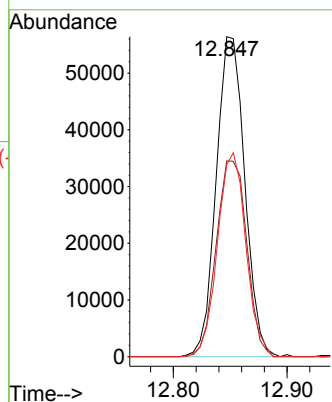
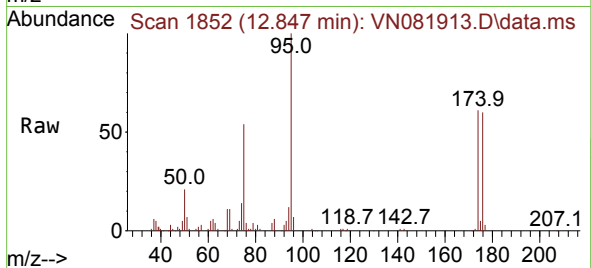




#60
4-Bromofluorobenzene
Concen: 28.766 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

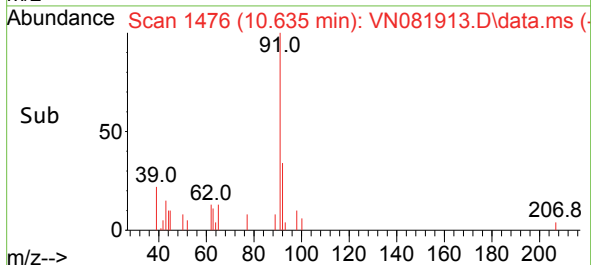
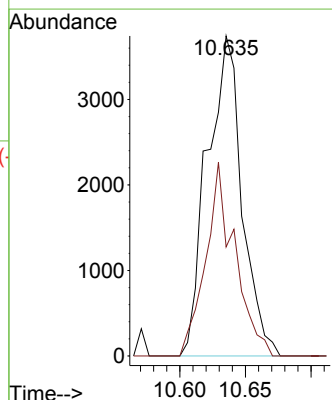
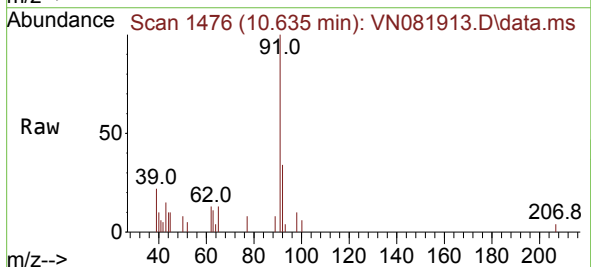
Instrument :
MSVOA_N
ClientSampleId :

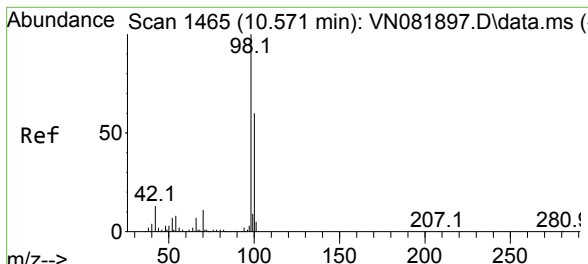
Tgt Ion: 95 Resp: 98537
Ion Ratio Lower Upper
95 100
174 65.6 60.5 90.7
176 63.3 57.8 86.6



#62
Toluene
Concen: 0.596 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Tgt Ion: 91 Resp: 6899
Ion Ratio Lower Upper
91 100
92 50.6 46.5 69.7

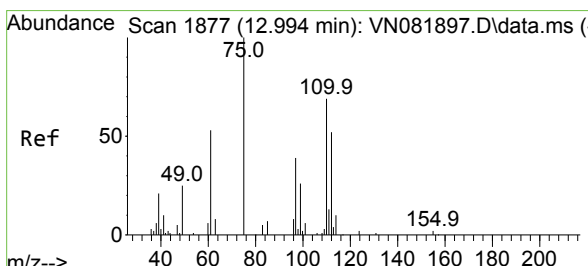
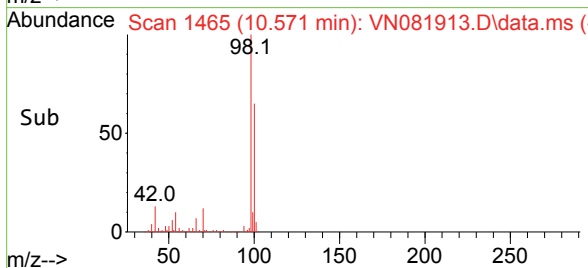
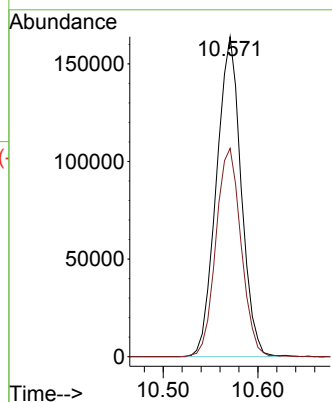
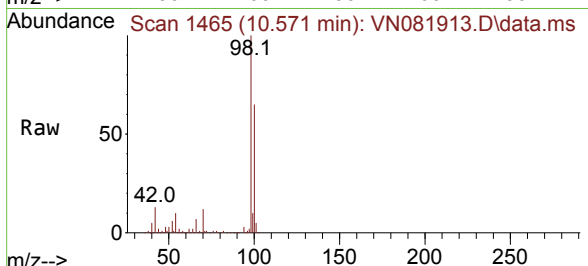




#63
Toluene-d8
Concen: 30.442 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

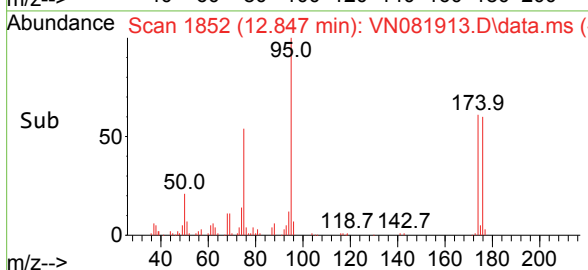
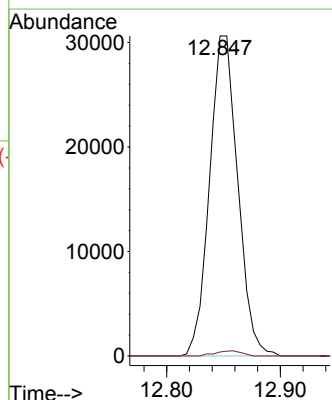
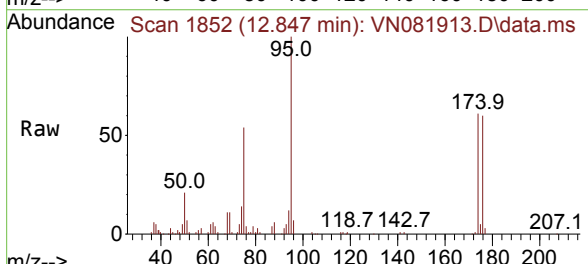
Instrument :
MSVOA_N
ClientSampleId :

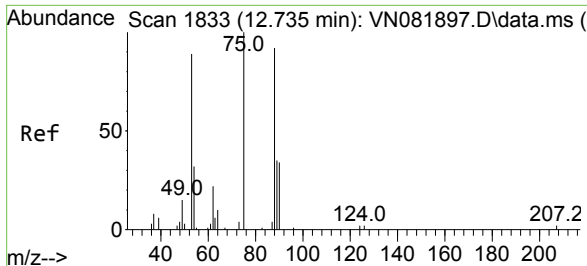
Tgt Ion: 98 Resp: 297569
Ion Ratio Lower Upper
98 100
100 66.2 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 16.630 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

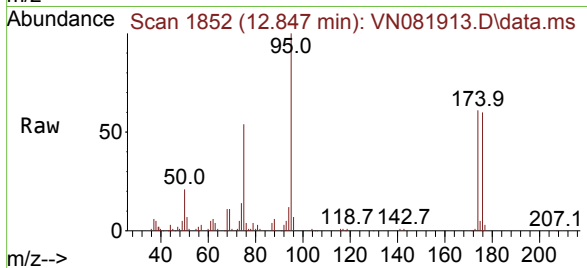
Tgt Ion: 75 Resp: 52915
Ion Ratio Lower Upper
75 100
77 1.5 0.0 367.6



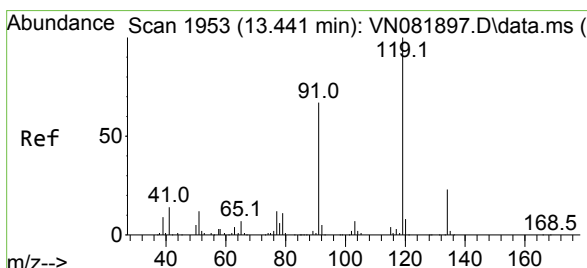
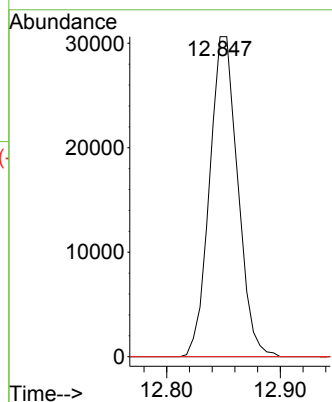
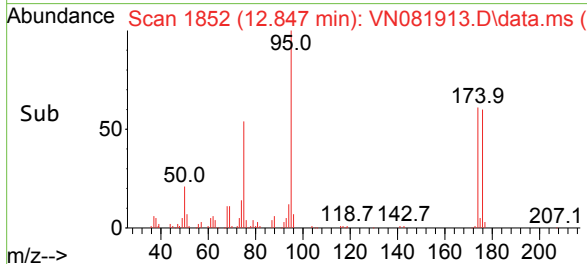


#77
t-1,4-Dichloro-2-butene
Concen: 37.363 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Instrument :
MSVOA_N
ClientSampleId :

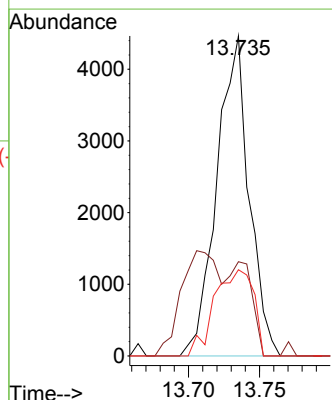
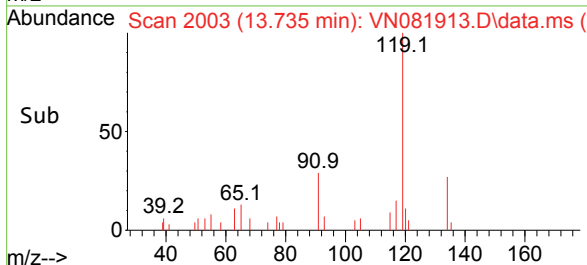
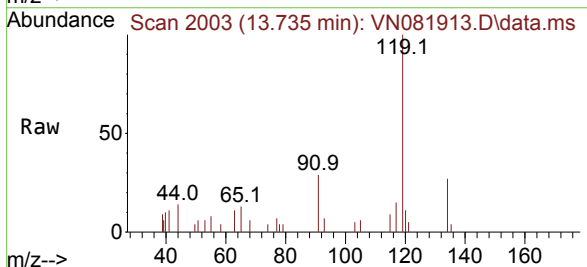


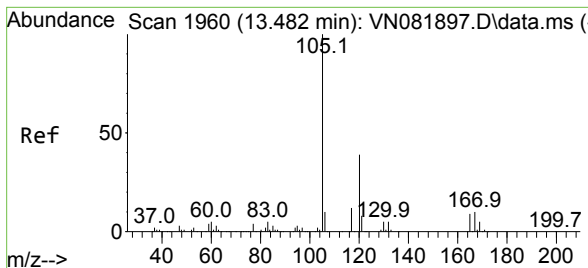
Tgt Ion: 75 Resp: 52915
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#79
tert-butylbenzene
Concen: 0.855 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Tgt Ion: 119 Resp: 7047
Ion Ratio Lower Upper
119 100
91 21.8 0.0 138.8
134 32.6 0.0 48.6

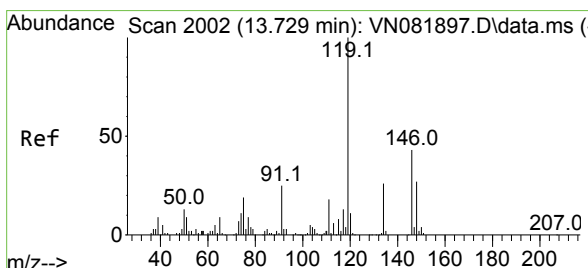
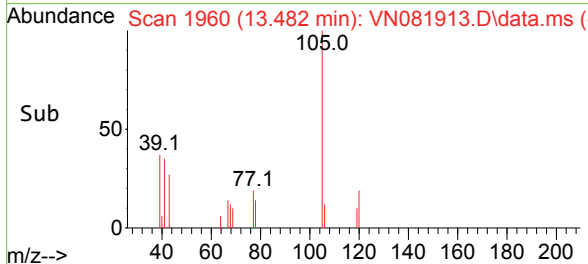
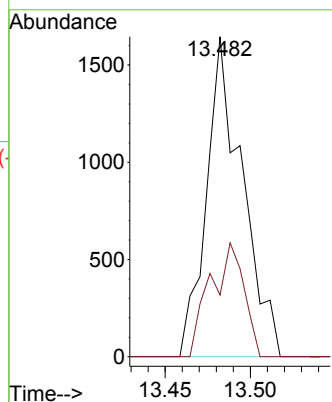
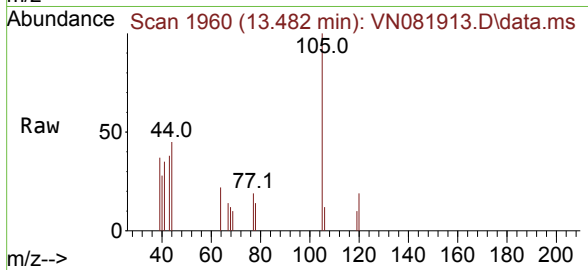




#80
1,2,4-Trimethylbenzene
Concen: 0.250 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:105 Resp: 2404
Ion Ratio Lower Upper
105 100
120 18.4 0.0 86.8



#82
p-Isopropyltoluene
Concen: 0.771 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN081913.D
Acq: 29 Apr 2024 14:44

Tgt Ion:119 Resp: 7047
Ion Ratio Lower Upper
119 100
134 32.6 0.0 49.2
91 21.8 0.0 48.8

