

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080421\
 Data File : VX023540.D
 Acq On : 04 Aug 2021 13:58
 Operator : JC/MD
 Sample : M3281-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 05 05:18:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

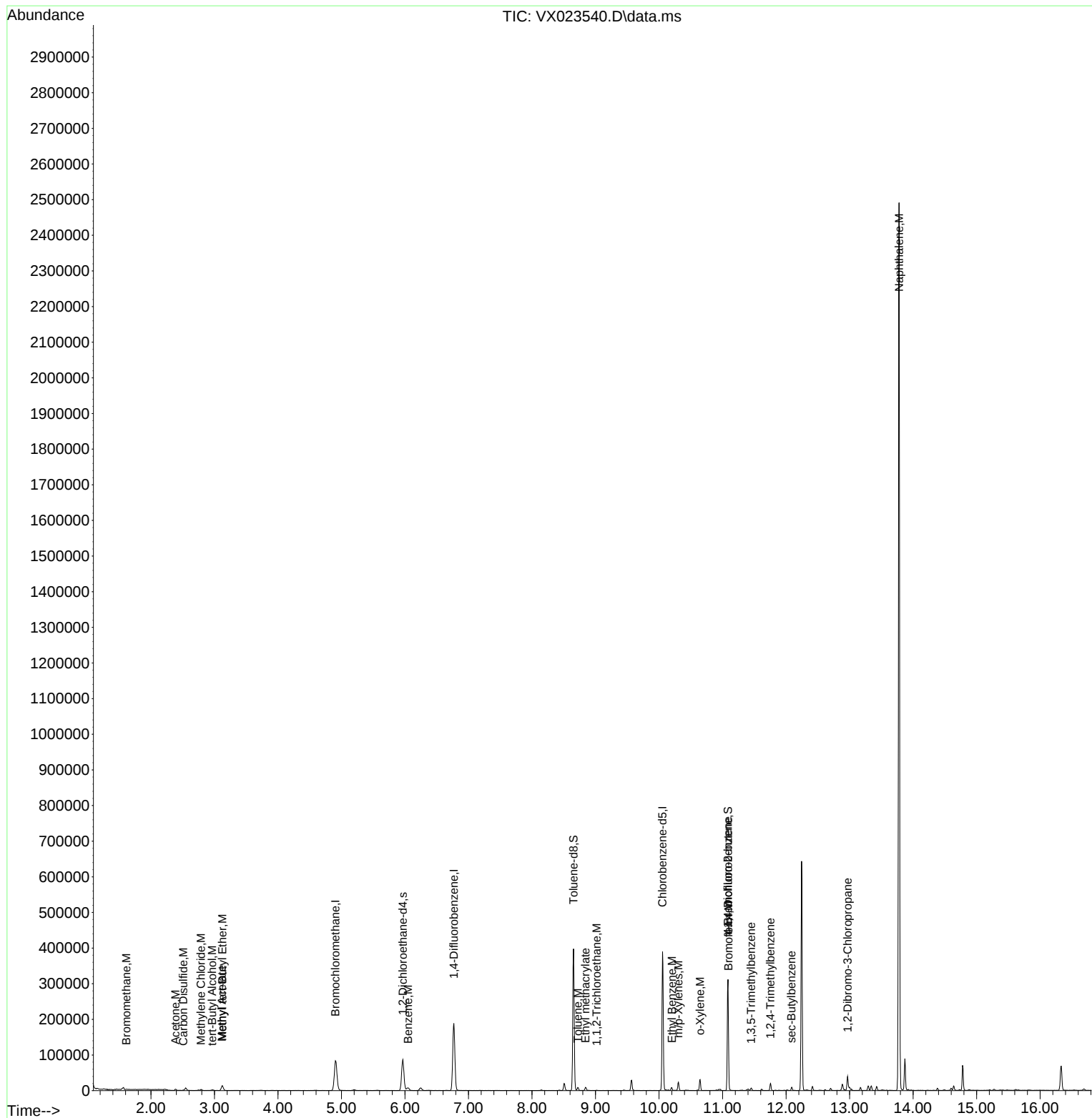
Internal Standards						
1) Bromochloromethane	4.904	128	36365	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	191240	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	173081	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	81964	29.145	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.167%		
60) 4-Bromofluorobenzene	11.085	95	80350	28.343	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.467%		
63) Toluene-d8	8.653	98	233125	29.928	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.767%		
Target Compounds						Qvalue
5) Bromomethane	1.612	94	324	0.228	ug/l #	62
12) Methyl Acetate	3.117	43	3390	1.079	ug/l	98
15) Acetone	2.386	58	1067	2.533	ug/l	86
16) Carbon Disulfide	2.508	76	1580	0.304	ug/l	100
18) Methylene Chloride	2.788	84	1127	0.455	ug/l #	85
23) tert-Butyl Alcohol	2.965	59	1936	3.069	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	13836	1.872	ug/l	96
34) Benzene	6.050	78	8724	0.971	ug/l #	93
50) 1,1,2-Trichloroethane	9.019	97	686	0.285	ug/l #	17
51) Ethyl methacrylate	8.842	69	910	0.240	ug/l	91
56) Bromoform	11.092	173	648	0.373	ug/l #	1
62) Toluene	8.720	91	5312	0.544	ug/l	96
66) Ethyl Benzene	10.201	91	4838	0.448	ug/l #	81
67) m/p-Xylenes	10.305	106	5167	1.236	ug/l	95
68) o-Xylene	10.646	106	6761	1.641	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	2629	0.293	ug/l	99
77) t-1,4-Dichloro-2-butene	11.085	75	41932	36.063	ug/l #	7
80) 1,2,4-Trimethylbenzene	11.756	105	8777	0.986	ug/l	98
81) sec-Butylbenzene	12.085	105	4134	0.370	ug/l	63
88) 1,2-Dibromo-3-Chloropr...	12.969	75	632	0.830	ug/l #	1
91) Naphthalene	13.780	128	1487887	151.926	ug/l	99

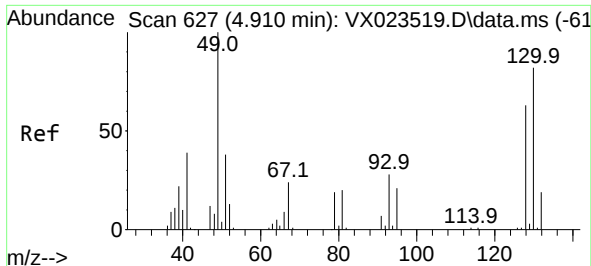
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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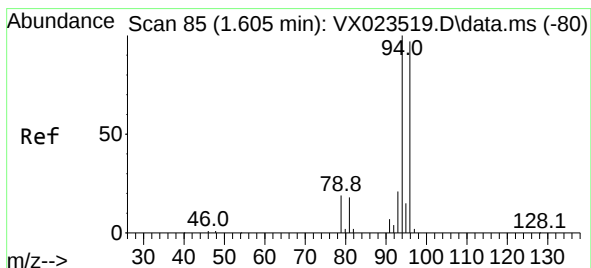
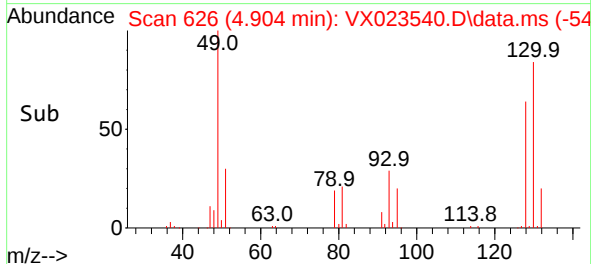
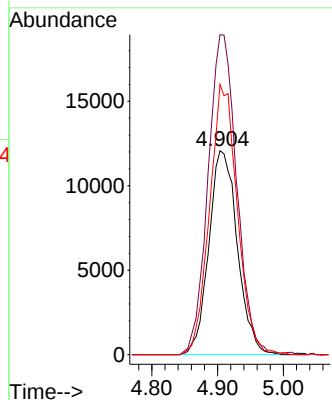
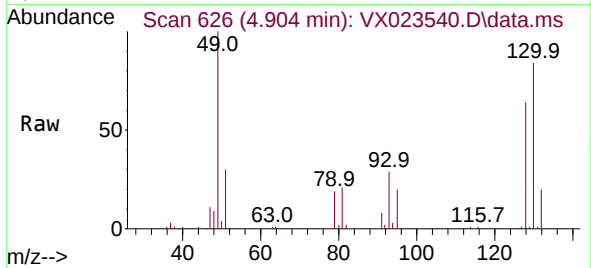




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 626
Delta R.T. -0.006 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

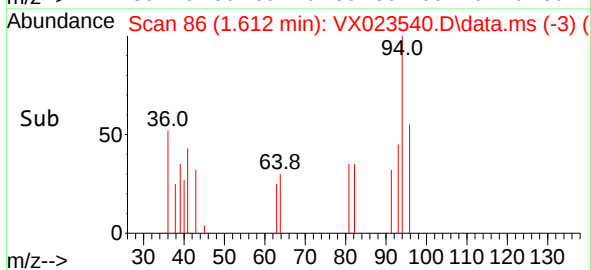
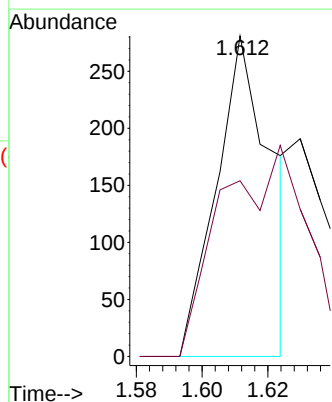
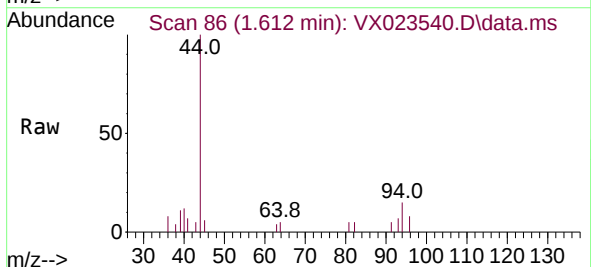
Instrument :
MSVOA_X
ClientSampled :

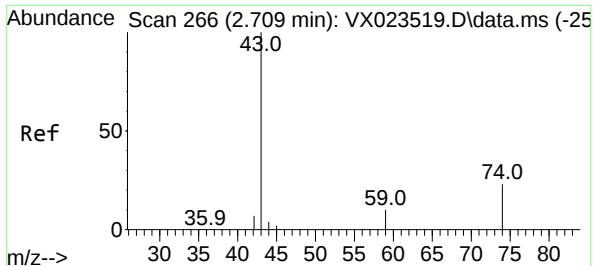
Tgt Ion:128 Resp: 36365
Ion Ratio Lower Upper
128 100
49 157.8 0.0 402.5
130 128.8 0.0 326.5



#5
Bromomethane
Concen: 0.228 ug/l
RT: 1.612 min Scan# 86
Delta R.T. 0.006 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 94 Resp: 324
Ion Ratio Lower Upper
94 100
96 54.8 72.8 109.2#





#12

Methyl Acetate

Concen: 1.079 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.409 min

Lab File: VX023540.D

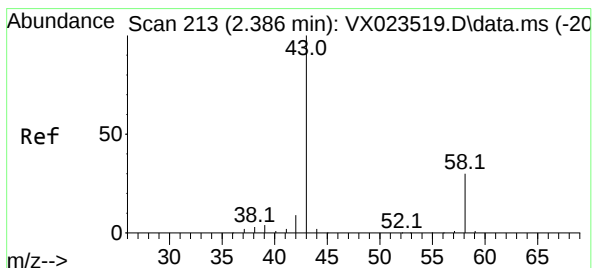
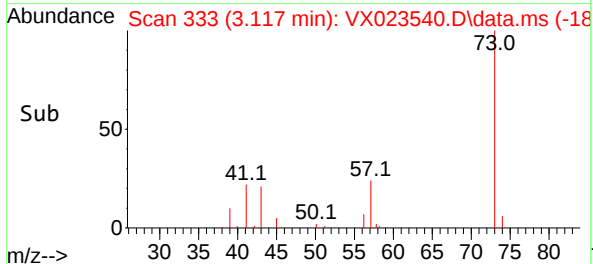
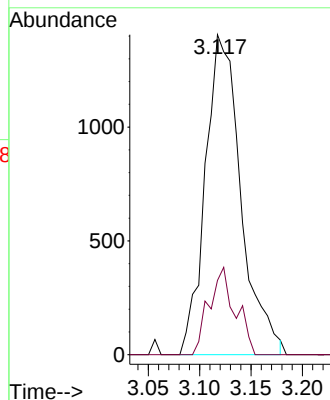
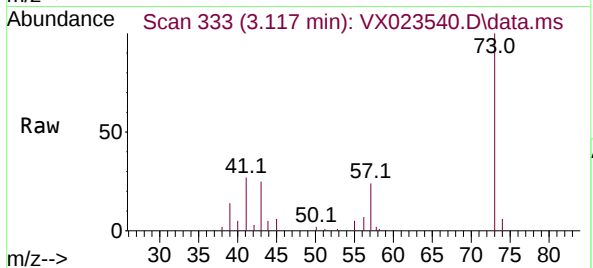
Acq: 04 Aug 2021 13:58

Tgt Ion: 43 Resp: 3390

Ion Ratio Lower Upper

43 100

74 23.7 18.2 27.2



#15

Acetone

Concen: 2.533 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX023540.D

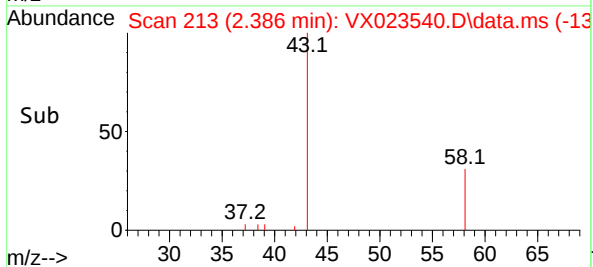
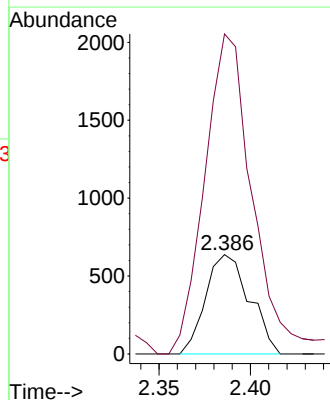
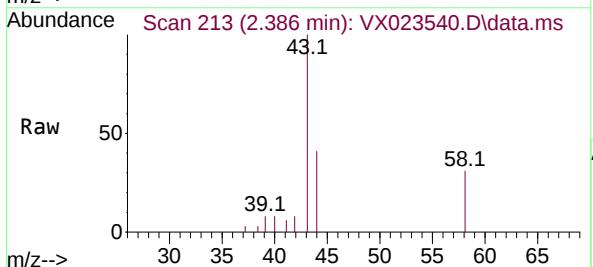
Acq: 04 Aug 2021 13:58

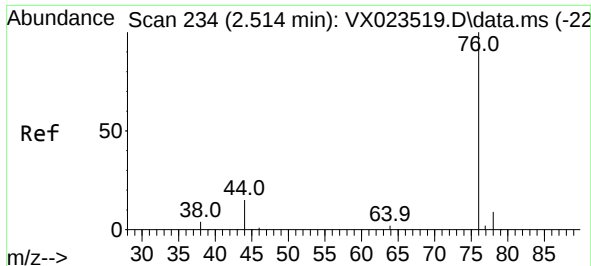
Tgt Ion: 58 Resp: 1067

Ion Ratio Lower Upper

58 100

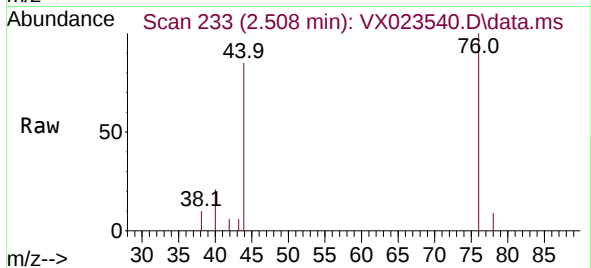
43 303.0 266.6 400.0



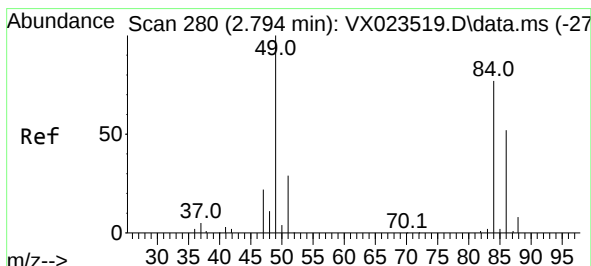
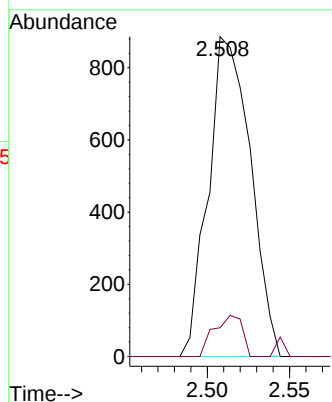
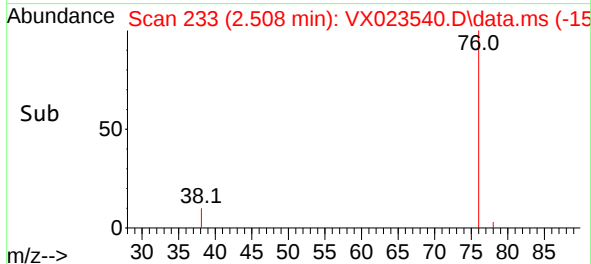


#16
Carbon Disulfide
Concen: 0.304 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

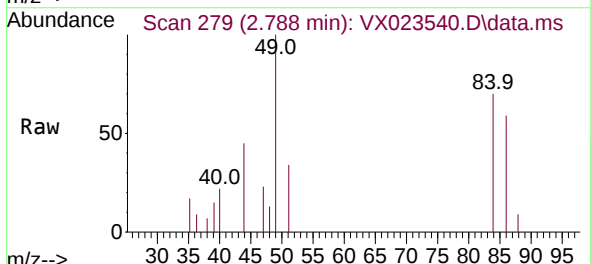
Instrument :
MSVOA_X
ClientSampled :



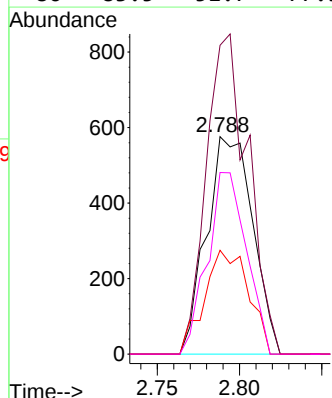
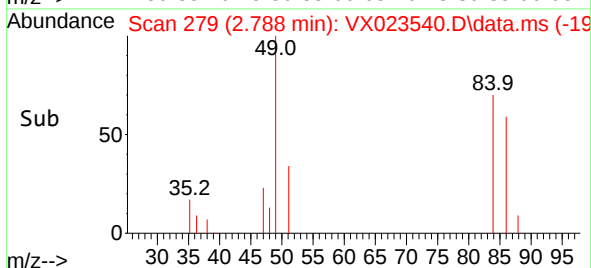
Tgt Ion: 76 Resp: 1580
Ion Ratio Lower Upper
76 100
78 9.0 7.3 10.9

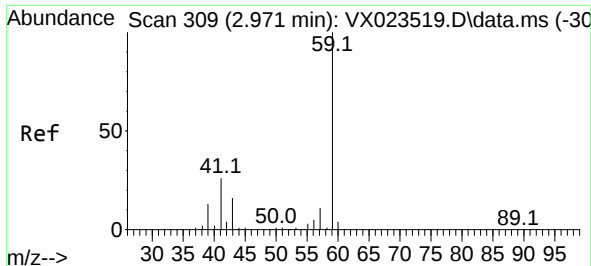


#18
Methylene Chloride
Concen: 0.455 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.006 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58



Tgt Ion: 84 Resp: 1127
Ion Ratio Lower Upper
84 100
49 142.0 104.3 156.5
51 47.7 30.3 45.5#
86 83.5 51.7 77.5#

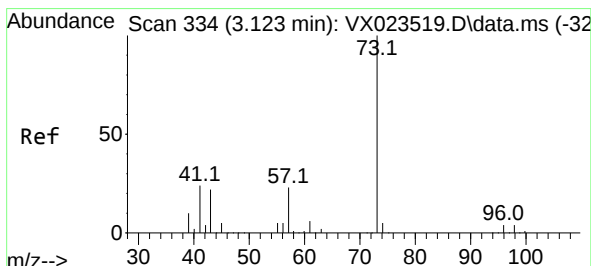
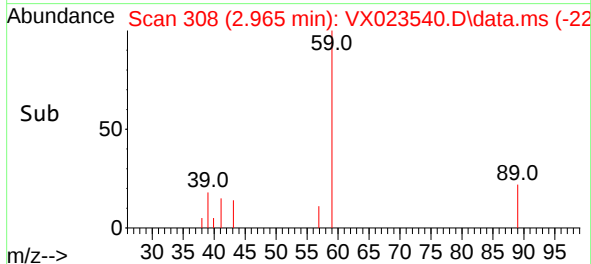
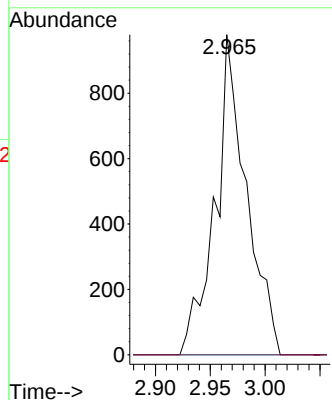
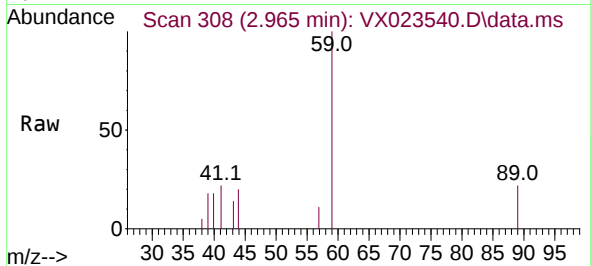




#23
tert-Butyl Alcohol
Concen: 3.069 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.006 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

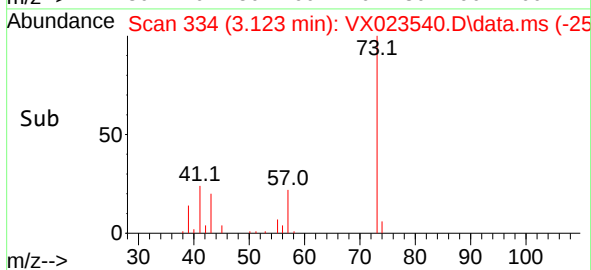
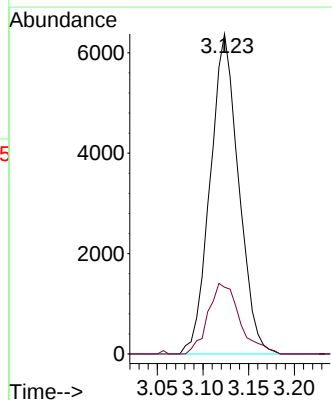
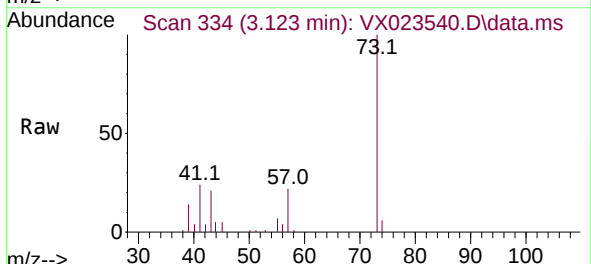
Instrument :
MSVOA_X
ClientSampled :

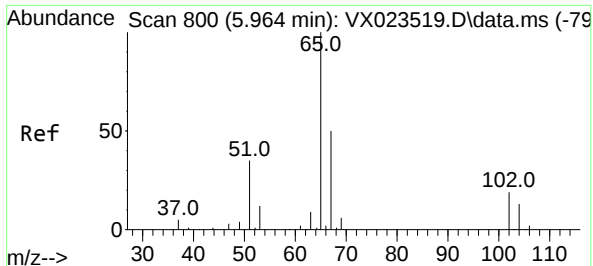
Tgt Ion: 59 Resp: 1936
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#24
Methyl tert-Butyl Ether
Concen: 1.872 ug/l
RT: 3.123 min Scan# 334
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 73 Resp: 13836
Ion Ratio Lower Upper
73 100
43 24.5 17.9 26.9

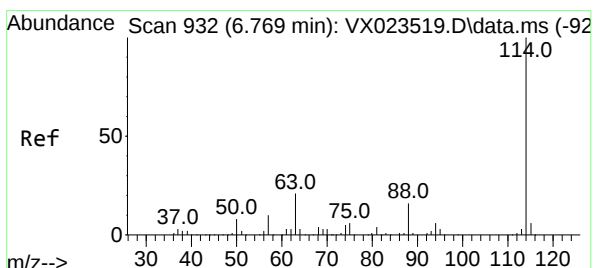
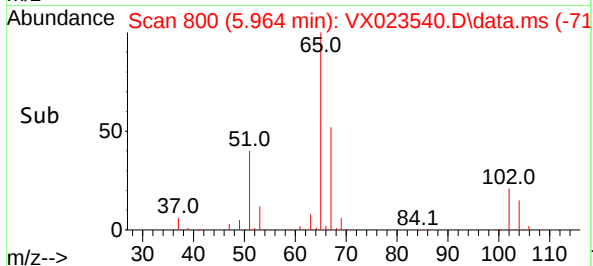
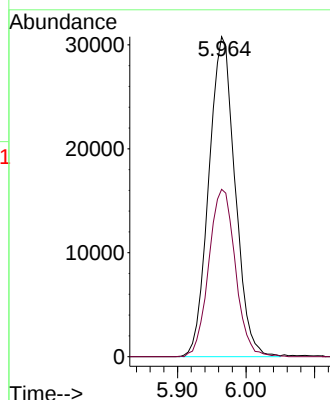
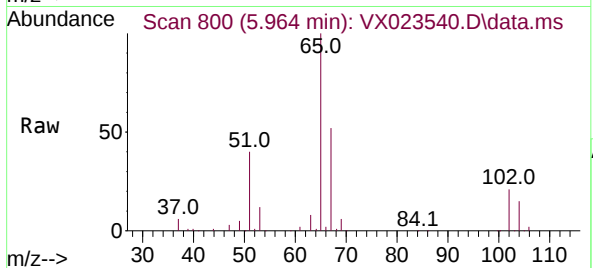




#27
1,2-Dichloroethane-d4
Concen: 29.145 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

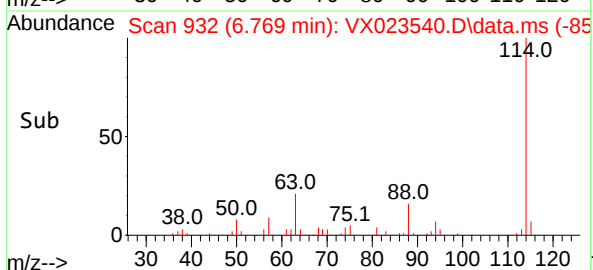
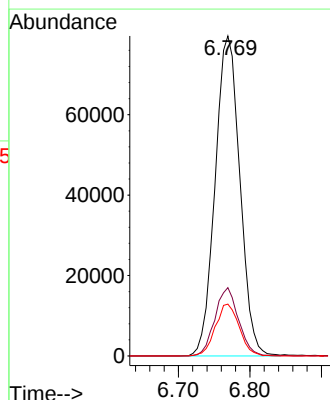
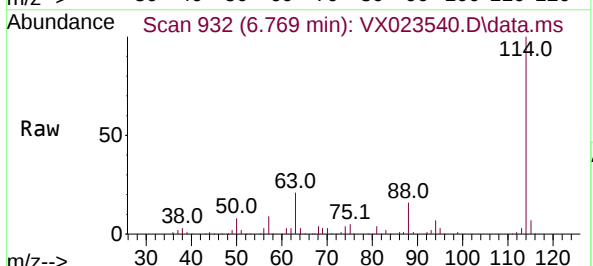
Instrument :
MSVOA_X
ClientSampled :

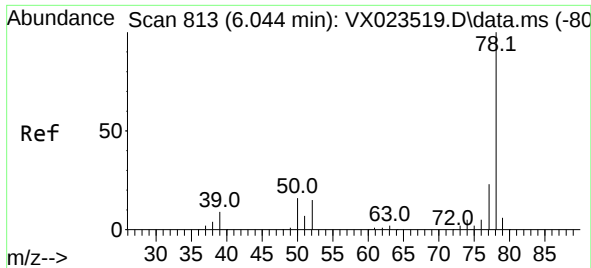
Tgt Ion: 65 Resp: 81964
Ion Ratio Lower Upper
65 100
67 52.7 42.4 63.6



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 114 Resp: 191240
Ion Ratio Lower Upper
114 100
63 20.4 16.4 24.6
88 15.6 12.7 19.1

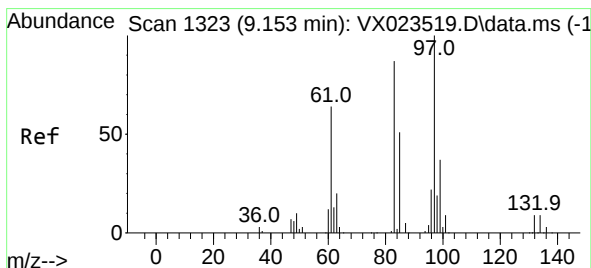
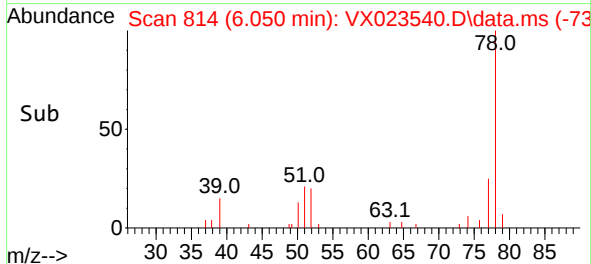
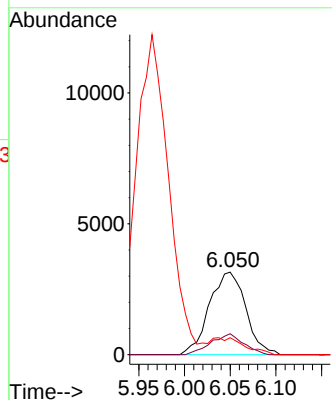
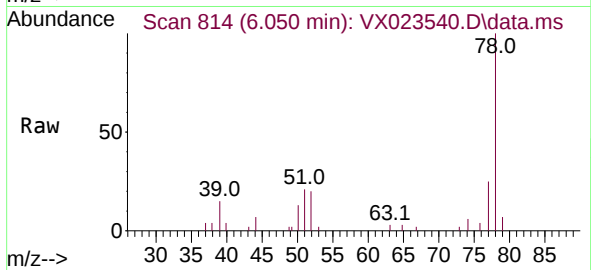




#34
Benzene
Concen: 0.971 ug/l
RT: 6.050 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

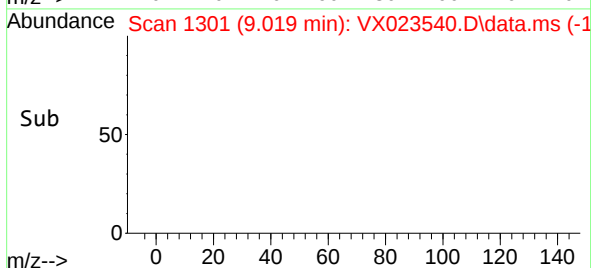
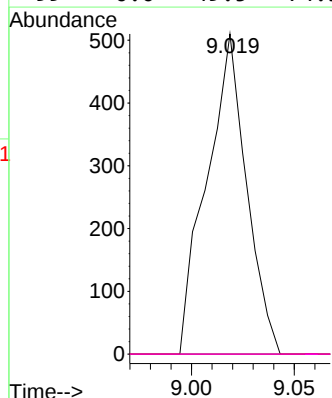
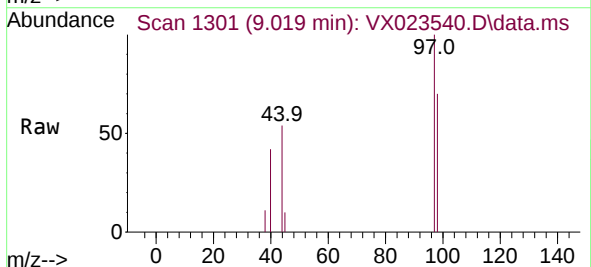
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MSVOA_X
ClientSampleId :

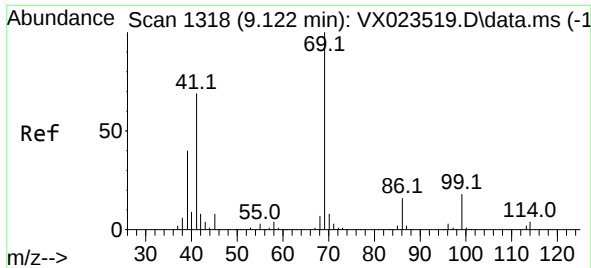
Tgt Ion: 78 Resp: 8724
Ion Ratio Lower Upper
78 100
77 25.4 19.3 28.9
51 20.7 12.2 18.4#



#50
1,1,2-Trichloroethane
Concen: 0.285 ug/l
RT: 9.019 min Scan# 1301
Delta R.T. -0.134 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 97 Resp: 686
Ion Ratio Lower Upper
97 100
83 0.0 64.2 96.4#
85 0.0 42.4 63.6#
99 0.0 49.5 74.3#

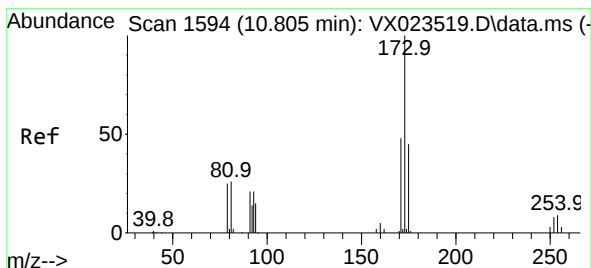
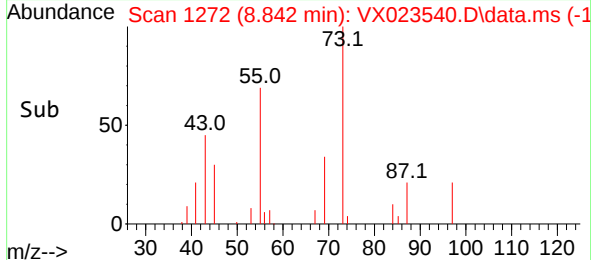
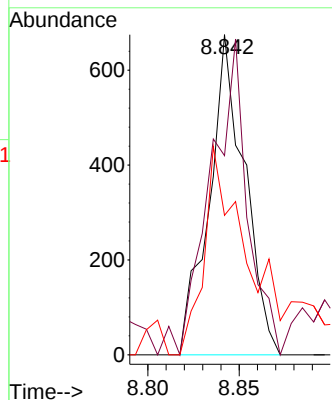
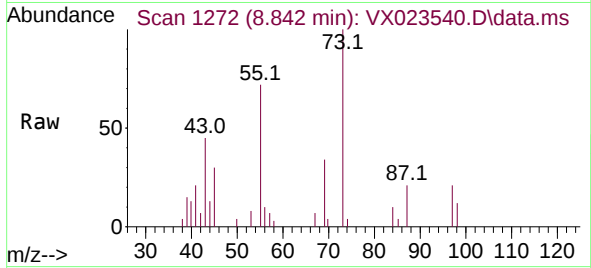




#51
Ethyl methacrylate
Concen: 0.240 ug/l
RT: 8.842 min Scan# 1272
Delta R.T. -0.280 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

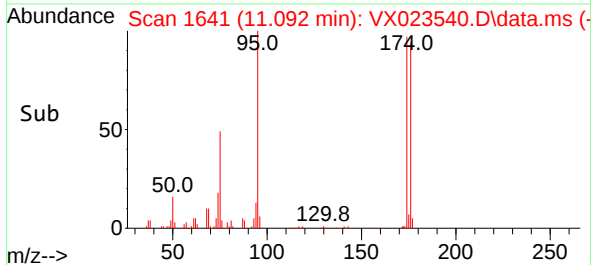
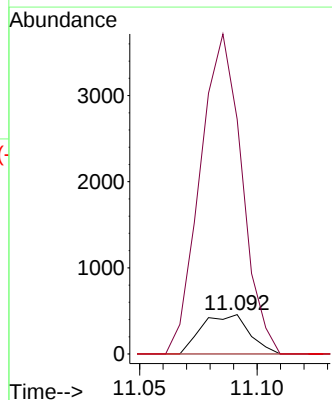
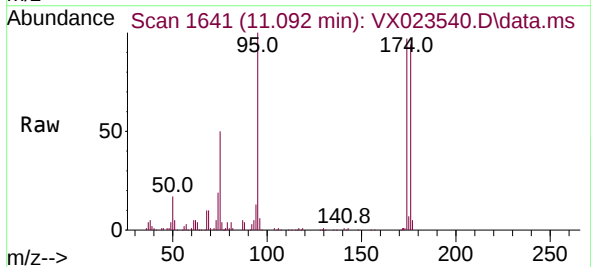
Instrument :
MSVOA_X
ClientSampled :

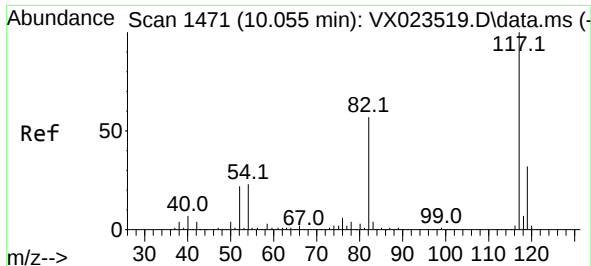
Tgt Ion: 69	Resp:	910
Ion Ratio	Lower	Upper
69	100	
41	62.2	35.8 107.3
39	43.6	20.3 60.8



#56
Bromoform
Concen: 0.373 ug/l
RT: 11.092 min Scan# 1641
Delta R.T. 0.287 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 173	Resp:	648
Ion Ratio	Lower	Upper
173	100	
175	709.7	38.4 57.6#
254	0.0	7.3 10.9#

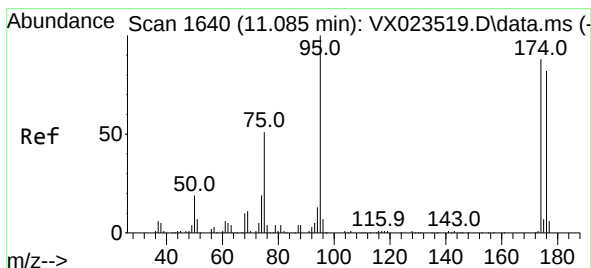
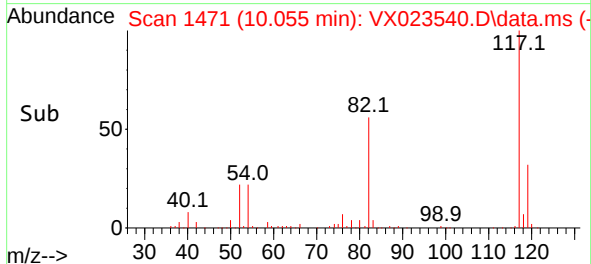
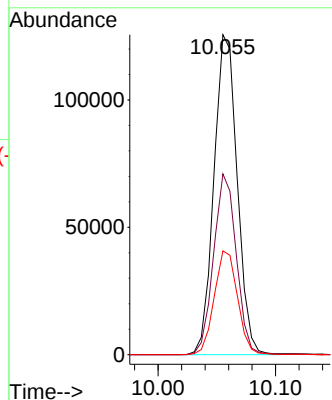
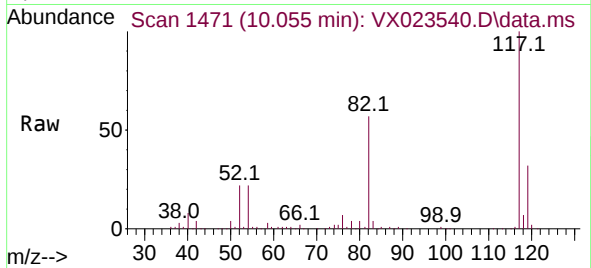




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

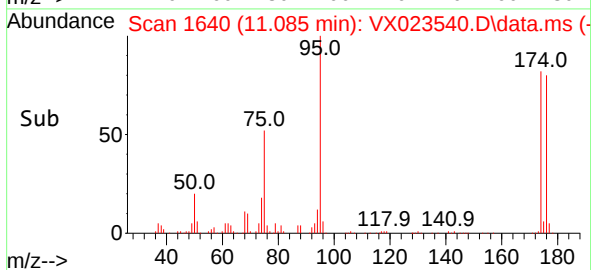
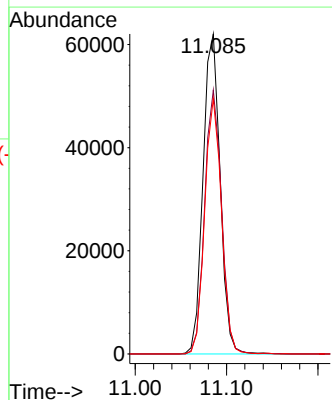
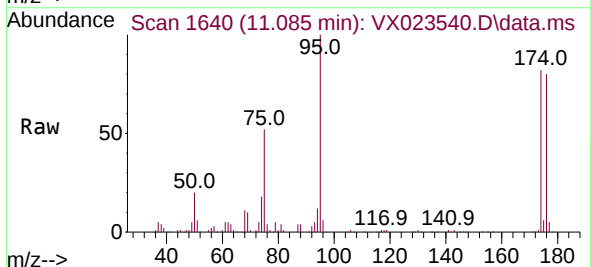
Instrument :
MSVOA_X
ClientSampled :

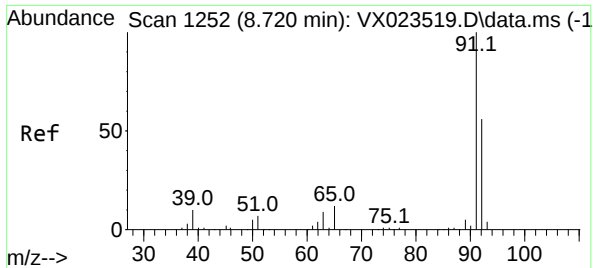
Tgt Ion:117 Resp: 173081
Ion Ratio Lower Upper
117 100
82 55.2 45.0 67.4
119 32.5 26.2 39.2



#60
4-Bromofluorobenzene
Concen: 28.343 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 95 Resp: 80350
Ion Ratio Lower Upper
95 100
174 81.7 63.5 95.3
176 78.2 63.0 94.4

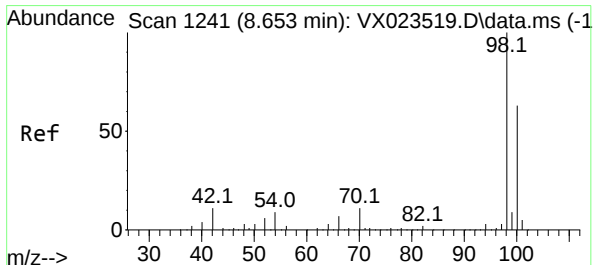
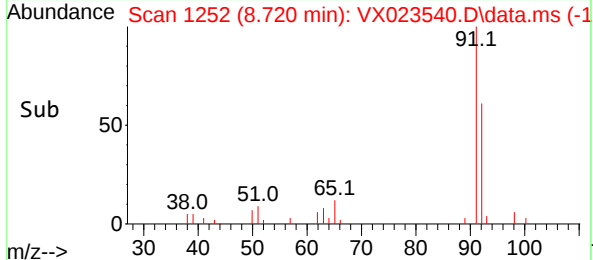
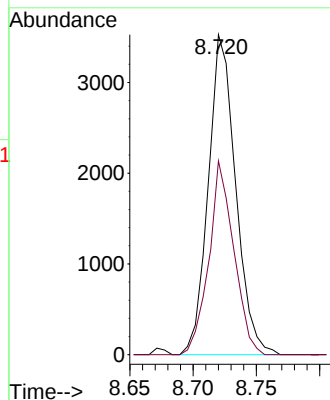
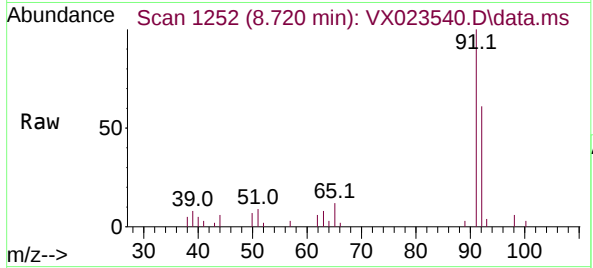




#62
Toluene
Concen: 0.544 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

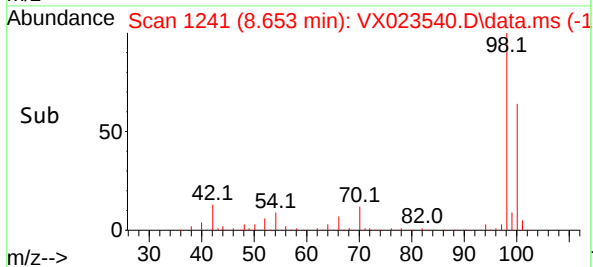
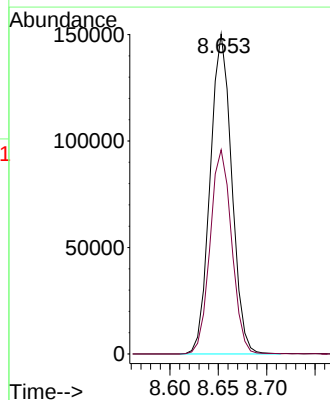
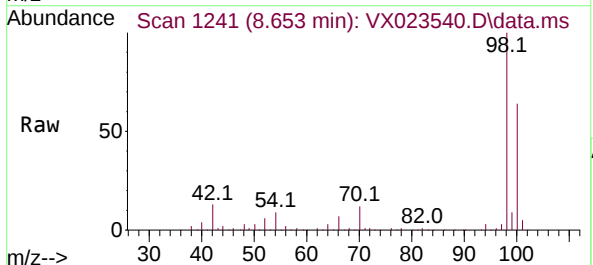
Instrument :
MSVOA_X
ClientSampled :

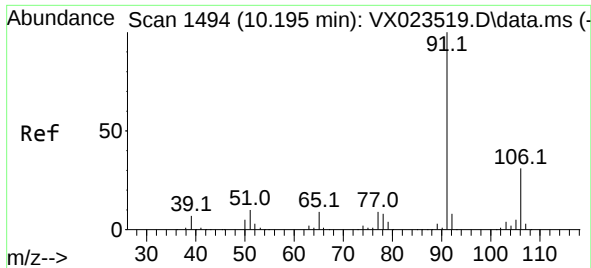
Tgt Ion: 91 Resp: 5312
Ion Ratio Lower Upper
91 100
92 55.1 46.5 69.7



#63
Toluene-d8
Concen: 29.928 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 98 Resp: 233125
Ion Ratio Lower Upper
98 100
100 63.9 51.4 77.0

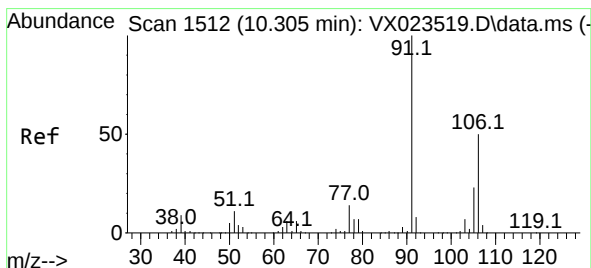
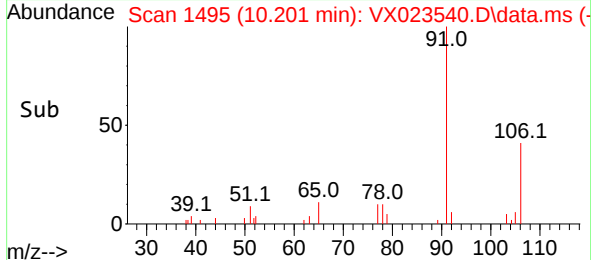
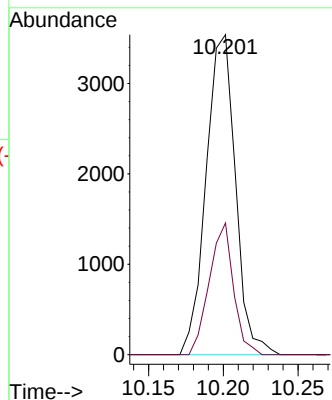
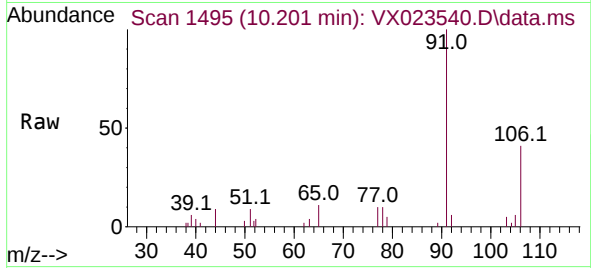




#66
Ethyl Benzene
Concen: 0.448 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.006 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

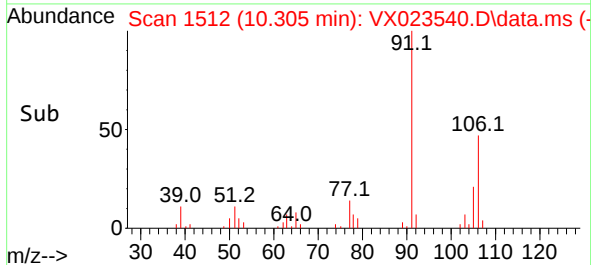
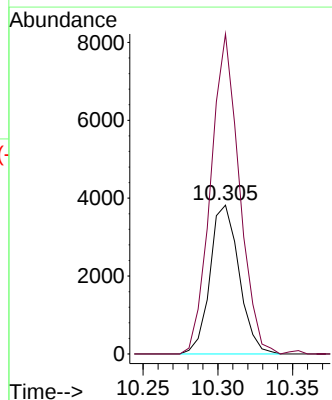
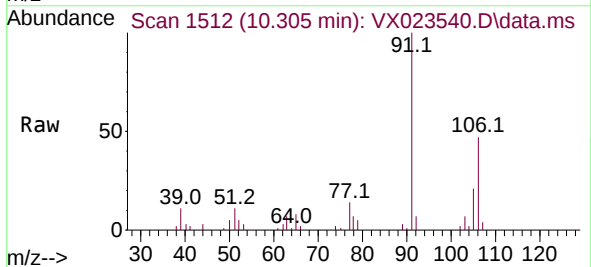
Instrument :
MSVOA_X
ClientSampled :

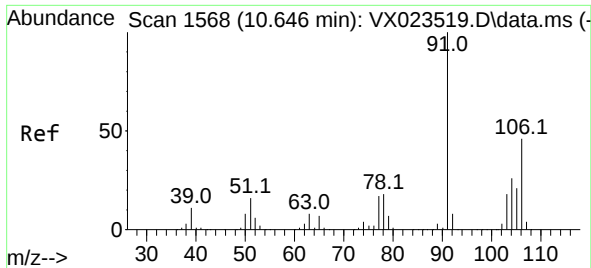
Tgt Ion: 91 Resp: 4838
Ion Ratio Lower Upper
91 100
106 41.1 24.7 37.1#



#67
m/p-Xylenes
Concen: 1.236 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 106 Resp: 5167
Ion Ratio Lower Upper
106 100
91 211.1 162.4 243.6

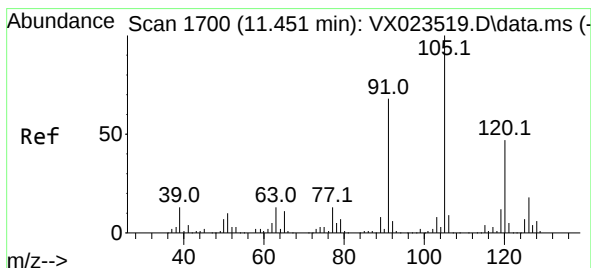
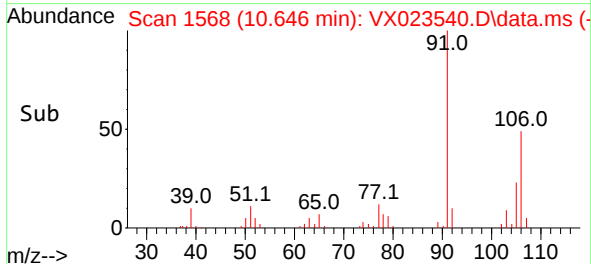
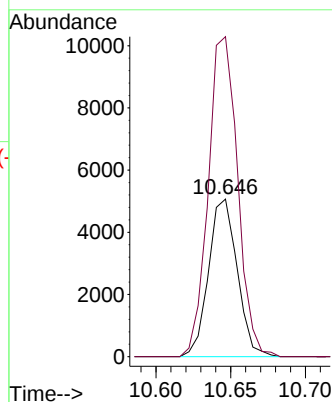
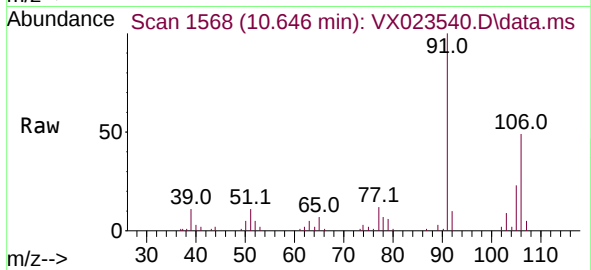




#68
o-Xylene
Concen: 1.641 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

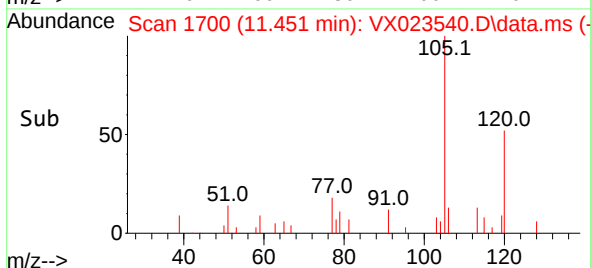
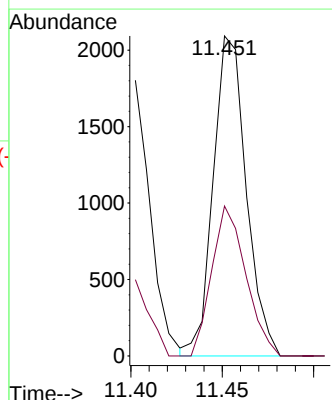
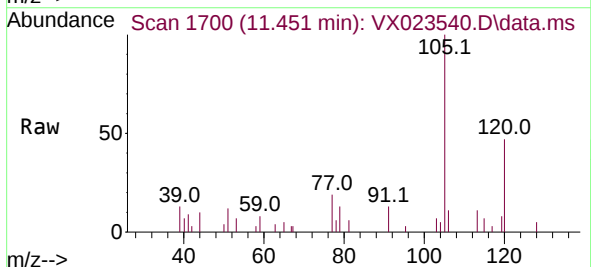
Instrument :
MSVOA_X
ClientSampleId :

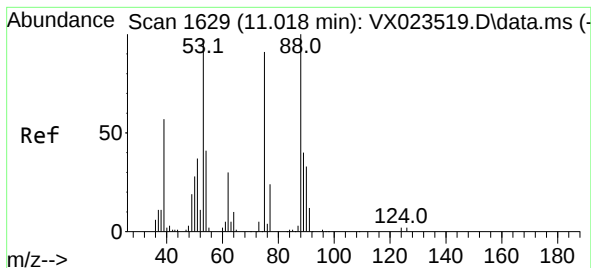
Tgt Ion:106 Resp: 6761
Ion Ratio Lower Upper
106 100
91 208.2 107.3 321.8



#76
1,3,5-Trimethylbenzene
Concen: 0.293 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion:105 Resp: 2629
Ion Ratio Lower Upper
105 100
120 48.4 0.0 98.0

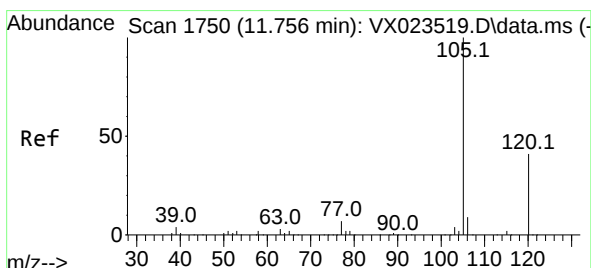
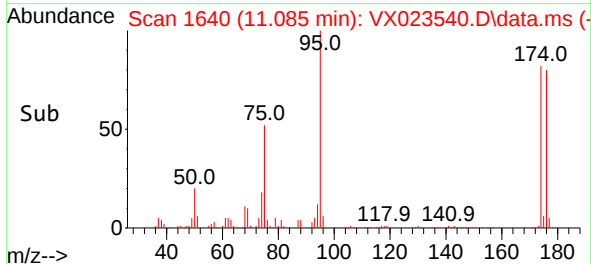
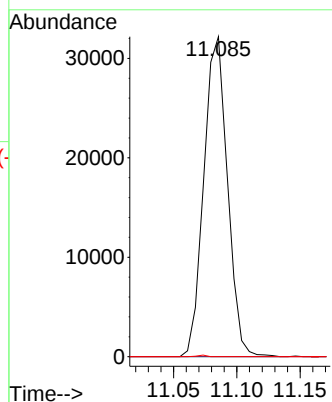
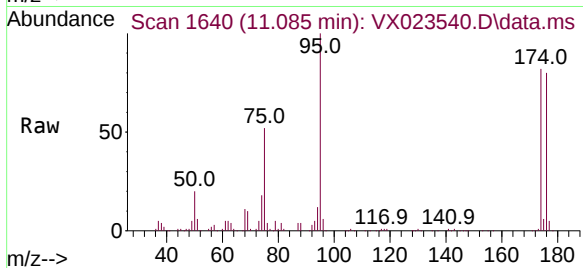




#77
t-1,4-Dichloro-2-butene
Concen: 36.063 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.067 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

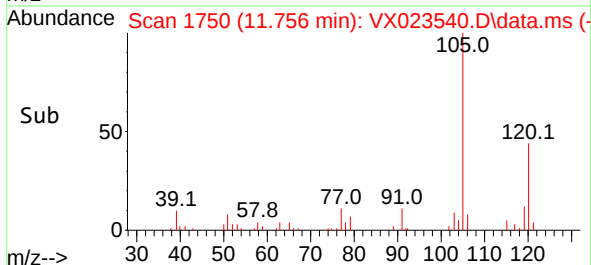
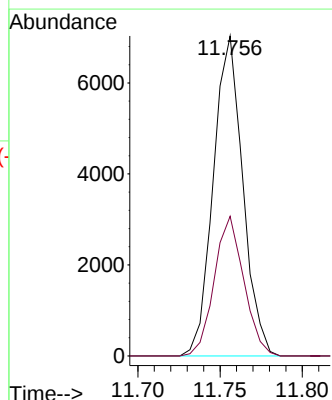
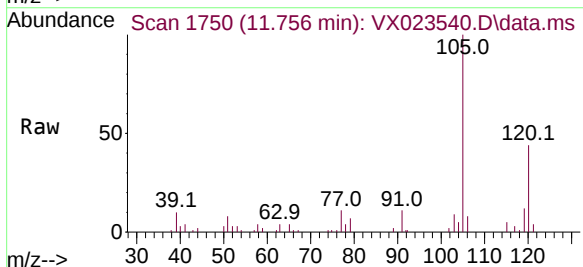
Instrument :
MSVOA_X
ClientSampled :

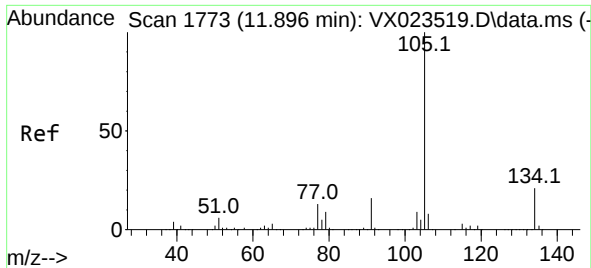
Tgt Ion: 75 Resp: 41932
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.9 68.7#



#80
1,2,4-Trimethylbenzene
Concen: 0.986 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Tgt Ion: 105 Resp: 8777
Ion Ratio Lower Upper
105 100
120 43.7 0.0 90.4

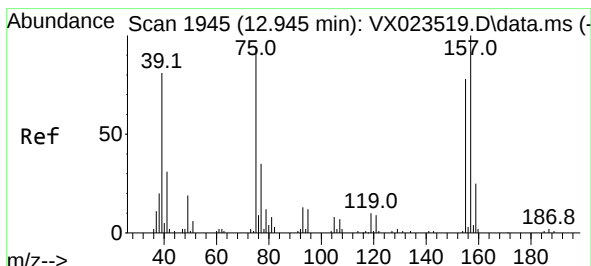
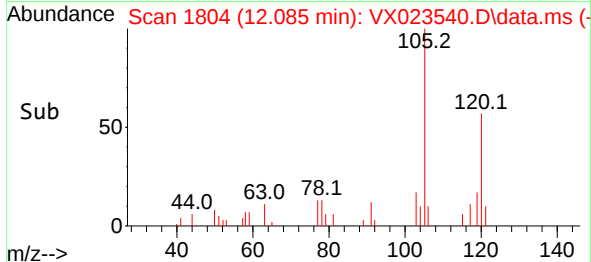
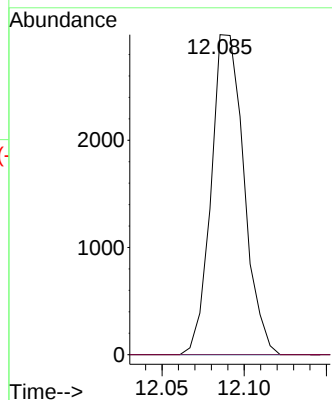
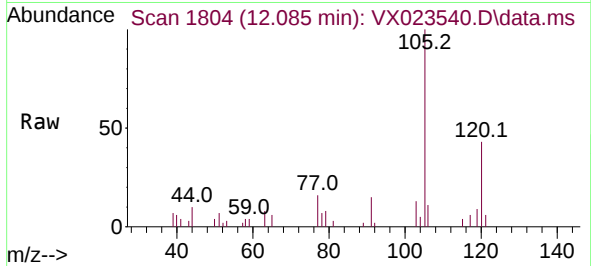




#81
 sec-Butylbenzene
 Concen: 0.370 ug/l
 RT: 12.085 min Scan# 1804
 Delta R.T. 0.189 min
 Lab File: VX023540.D
 Acq: 04 Aug 2021 13:58

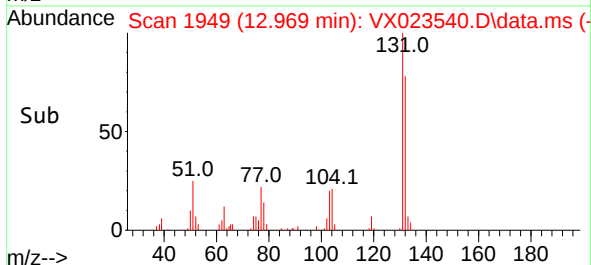
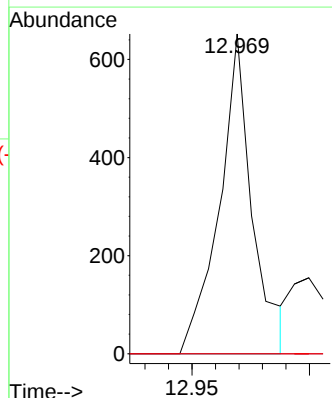
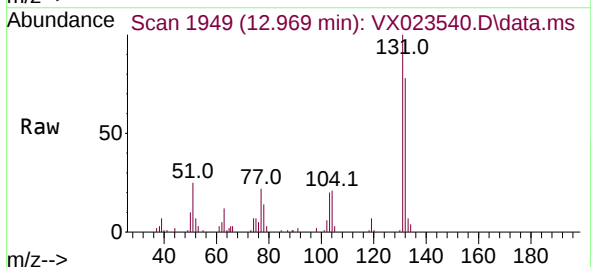
Instrument :
 MSVOA_X
 ClientSampled :

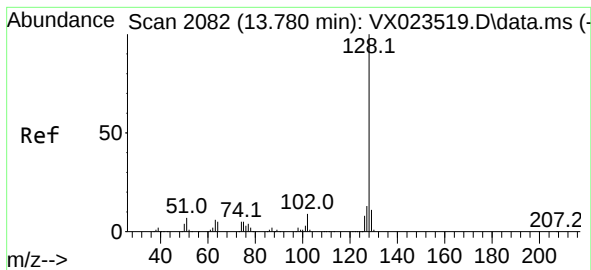
Tgt Ion:105 Resp: 4134
 Ion Ratio Lower Upper
 105 100
 134 2.9 0.0 40.2



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.830 ug/l
 RT: 12.969 min Scan# 1949
 Delta R.T. 0.024 min
 Lab File: VX023540.D
 Acq: 04 Aug 2021 13:58

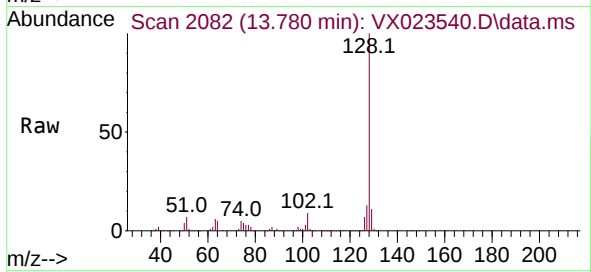
Tgt Ion: 75 Resp: 632
 Ion Ratio Lower Upper
 75 100
 155 0.0 67.4 101.2#
 157 0.0 85.8 128.8#





#91
Naphthalene
Concen: 151.926 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX023540.D
Acq: 04 Aug 2021 13:58

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 1487887
Ion Ratio Lower Upper
128 100
127 13.0 10.1 15.1
129 11.0 8.6 12.8

