

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021937.D
 Acq On : 12 May 2021 19:20
 Operator : JC/MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

Quant Time: May 13 06:15:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

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

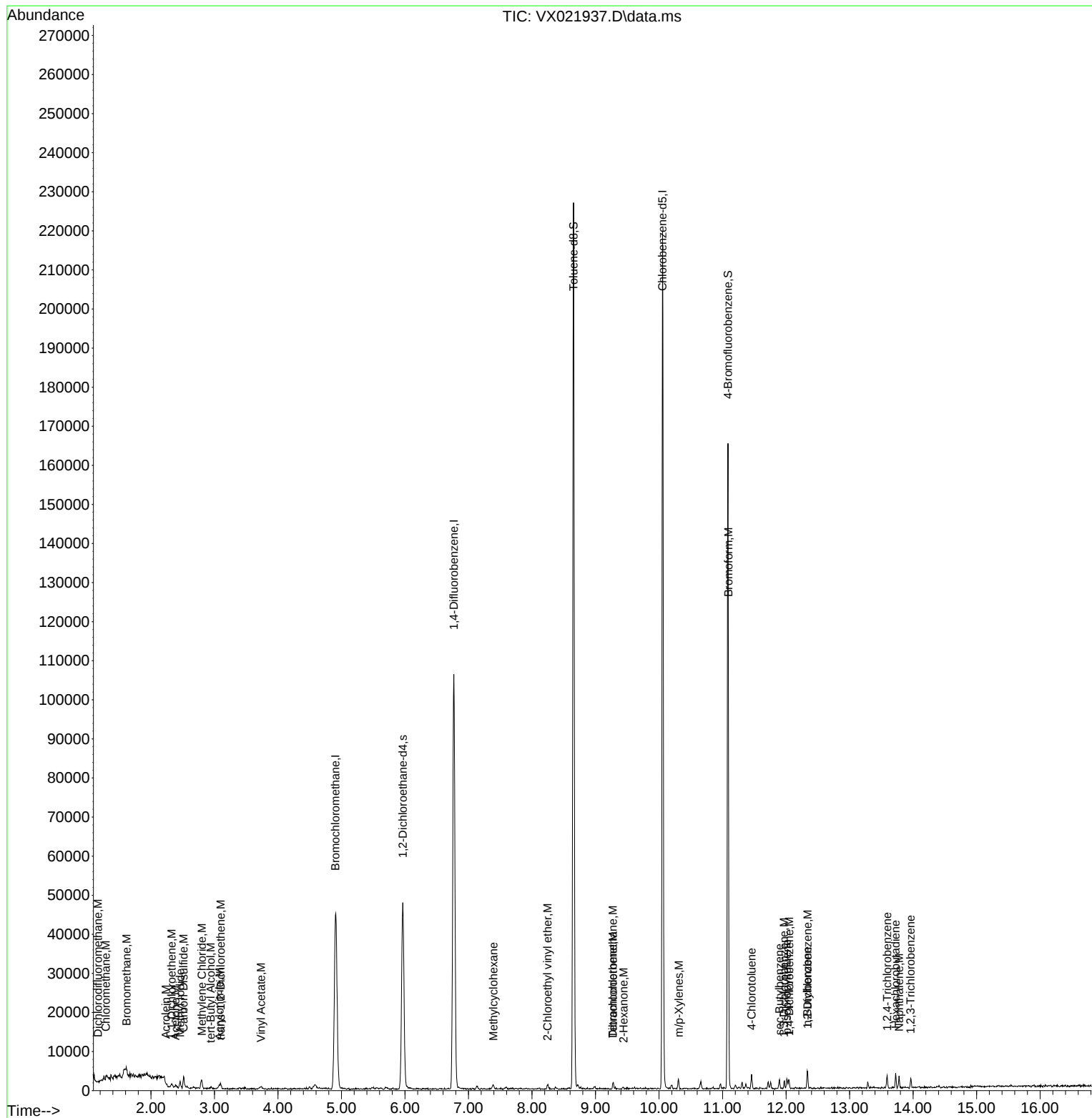
Internal Standards						
1) Bromochloromethane	4.903	128	18763	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	108292	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	95049	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	43171	29.87	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.57%
60) 4-Bromofluorobenzene	11.085	95	45513	28.85	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.17%
63) Toluene-d8	8.653	98	129308	29.77	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.23%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	235	0.21	ug/l #	45
3) Chloromethane	1.288	50	363	0.27	ug/l	91
5) Bromomethane	1.617	94	546	0.70	ug/l	98
10) 1,1-Dichloroethene	2.325	96	242	0.22	ug/l #	83
11) Methyl Iodide	2.459	142	1441	1.30	ug/l	76
13) Acrolein	2.233	56	293	1.23	ug/l #	45
14) Acrylonitrile	3.081	53	542	0.86	ug/l	78
15) Acetone	2.386	58	104	0.55	ug/l #	17
16) Carbon Disulfide	2.514	76	3106	1.02	ug/l #	75
18) Methylene Chloride	2.800	84	1005	0.76	ug/l #	82
19) trans-1,2-Dichloroethene	3.099	96	426	0.35	ug/l #	76
23) tert-Butyl Alcohol	2.940	59	92	0.30	ug/l #	100
38) Methylcyclohexane	7.391	83	564	0.29	ug/l	81
42) Vinyl Acetate	3.733	43	1100	0.31	ug/l #	72
53) Dibromochloromethane	9.275	129	353	0.27	ug/l #	10
55) 2-Chloroethyl vinyl ether	8.244	63	536	0.49	ug/l #	78
56) Bromoform	11.091	173	330	0.40	ug/l #	1
59) 2-Hexanone	9.439	43	364	0.26	ug/l #	69
61) Tetrachloroethene	9.275	164	261	0.24	ug/l #	60
67) m/p-Xylenes	10.311	106	592	0.26	ug/l	99
78) 4-Chlorotoluene	11.457	91	1217	0.26	ug/l	82
81) sec-Butylbenzene	11.896	105	1393	0.24	ug/l	90
82) p-Isopropyltoluene	12.012	119	981	0.20	ug/l	75
83) 1,3-Dichlorobenzene	11.969	146	639	0.27	ug/l	96
84) 1,4-Dichlorobenzene	12.049	146	829	0.35	ug/l	94
85) n-Butylbenzene	12.335	91	1568	0.35	ug/l	91
87) 1,2-Dichlorobenzene	12.341	146	495	0.22	ug/l	91
89) 1,2,4-Trichlorobenzene	13.591	180	735	0.53	ug/l	94
90) Hexachlorobutadiene	13.725	225	594	1.11	ug/l	80
91) Naphthalene	13.780	128	1906	0.35	ug/l #	88
92) 1,2,3-Trichlorobenzene	13.963	180	579	0.42	ug/l	87

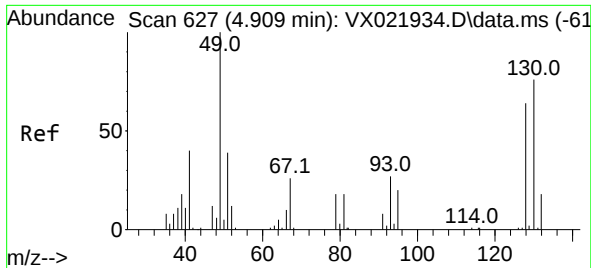
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
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Acq On : 12 May 2021 19:20
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Instrument :
MSVOA_X
ClientSampleId :
IBLK

Quant Time: May 13 06:15:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 13 06:11:35 2021
Response via : Initial Calibration

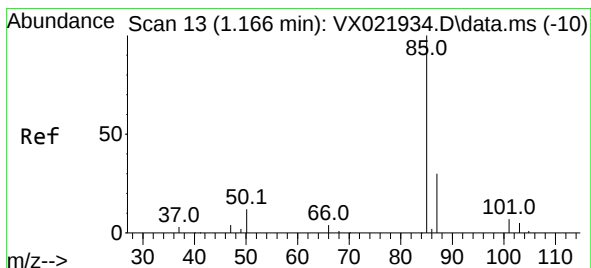
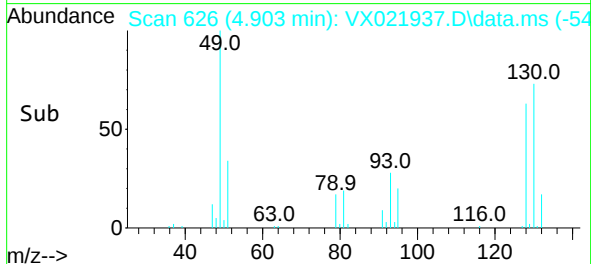
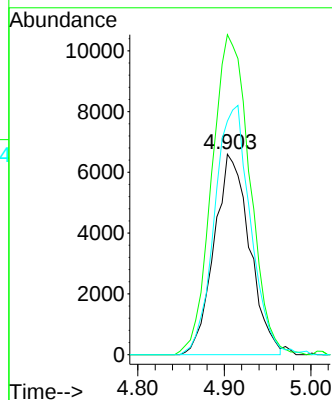
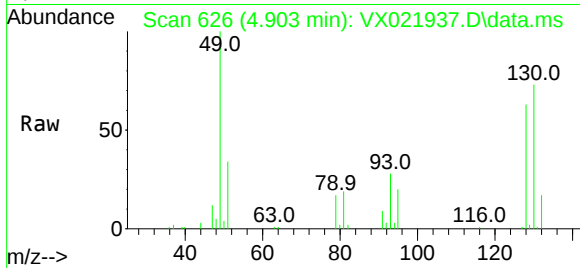




#1
 Bromochloromethane
 Concen: 30.00 ug/l
 RT: 4.903 min Scan# 626
 Delta R.T. -0.006 min
 Lab File: VX021937.D
 Acq: 12 May 2021 19:20

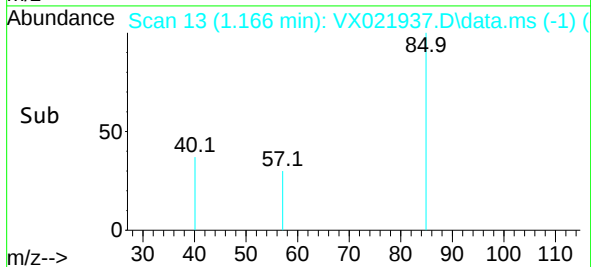
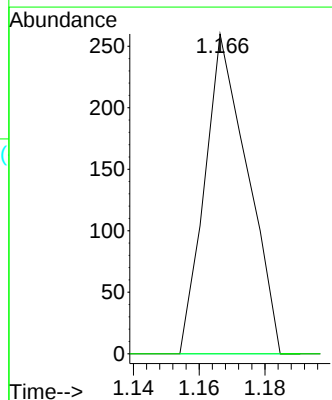
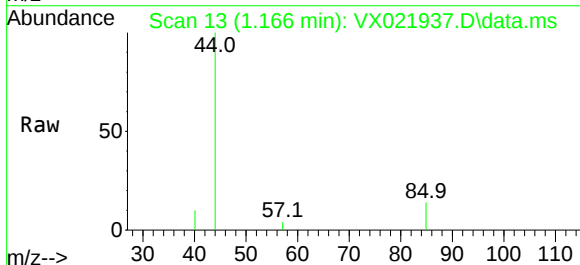
Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK

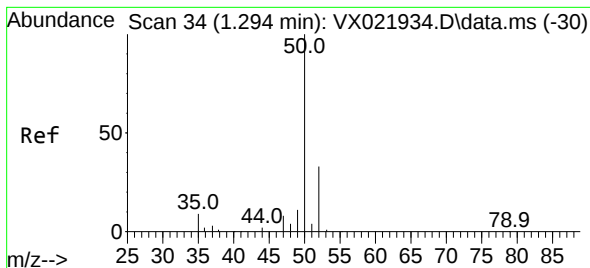
Tgt Ion:	128	Resp:	18763
Ion	Ratio	Lower	Upper
128	100		
49	170.6	0.0	442.5
130	125.7	0.0	323.3



#2
 Dichlorodifluoromethane
 Concen: 0.21 ug/l
 RT: 1.166 min Scan# 13
 Delta R.T. 0.000 min
 Lab File: VX021937.D
 Acq: 12 May 2021 19:20

Tgt Ion:	85	Resp:	235
Ion	Ratio	Lower	Upper
85	100		
87	0.0	14.9	44.5#

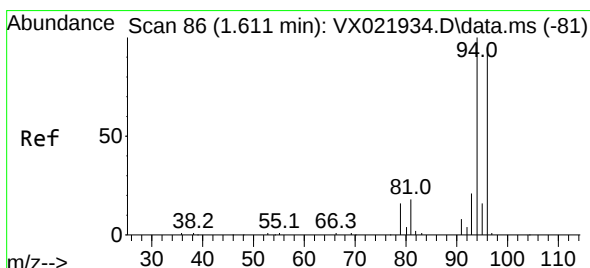
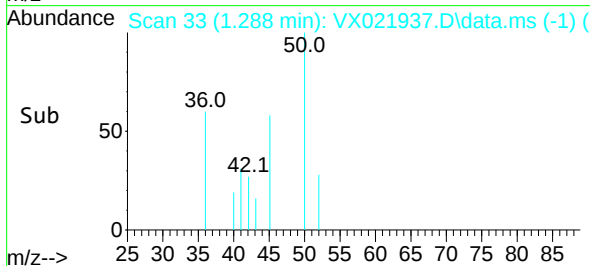
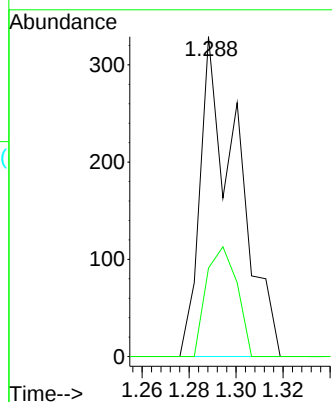
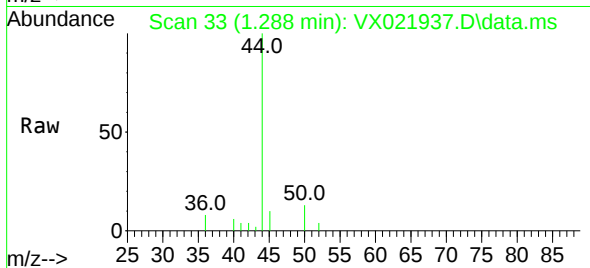




#3
Chloromethane
Concen: 0.27 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

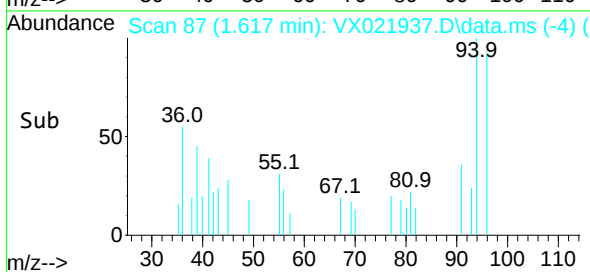
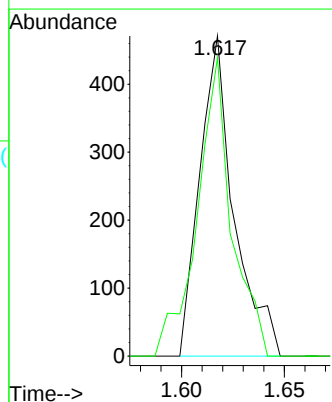
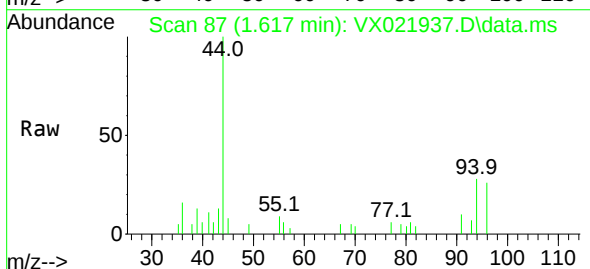
Instrument :
MSVOA_X
ClientSampleId :
IBLK

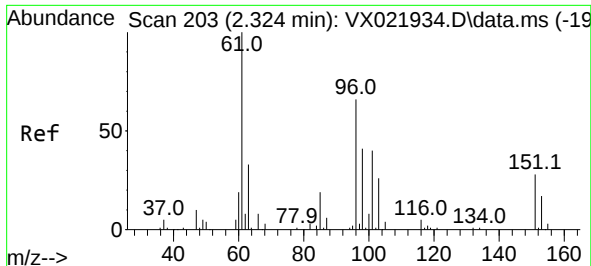
Tgt Ion: 50 Resp: 363
Ion Ratio Lower Upper
50 100
52 27.7 26.2 39.4



#5
Bromomethane
Concen: 0.70 ug/l
RT: 1.617 min Scan# 87
Delta R.T. 0.006 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion: 94 Resp: 546
Ion Ratio Lower Upper
94 100
96 93.2 76.1 114.1





#10

1,1-Dichloroethene

Concen: 0.22 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX021937.D

Acq: 12 May 2021 19:20

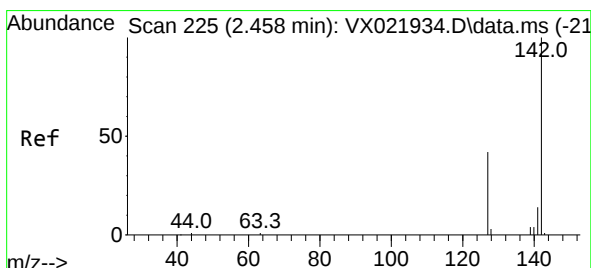
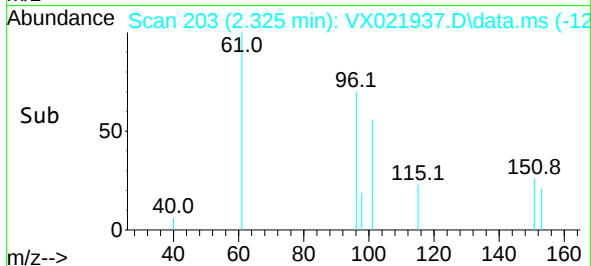
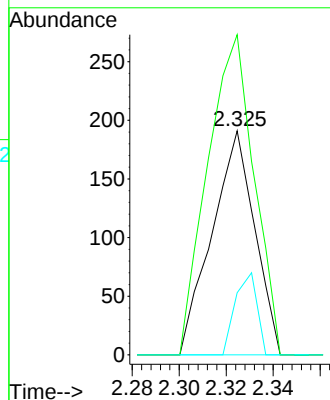
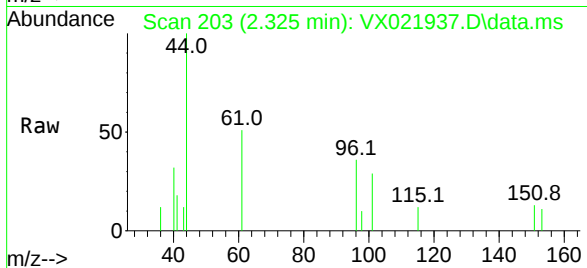
Tgt Ion: 96 Resp: 242

Ion Ratio Lower Upper

96 100

61 142.9 121.0 181.4

98 27.7 49.1 73.7#



#11

Methyl Iodide

Concen: 1.30 ug/l

RT: 2.459 min Scan# 225

Delta R.T. 0.000 min

Lab File: VX021937.D

Acq: 12 May 2021 19:20

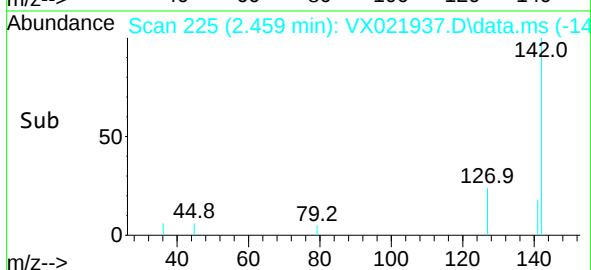
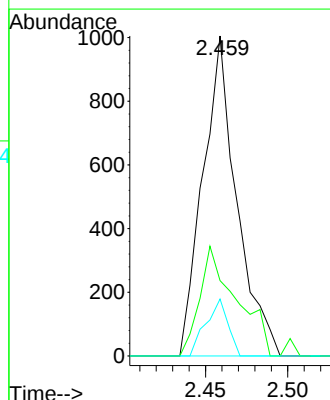
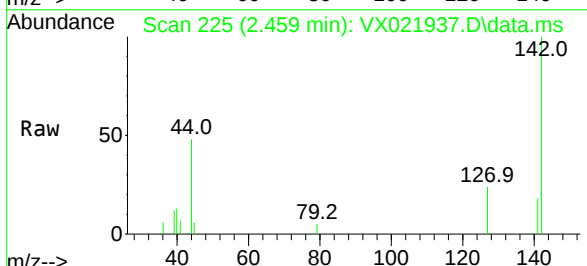
Tgt Ion: 142 Resp: 1441

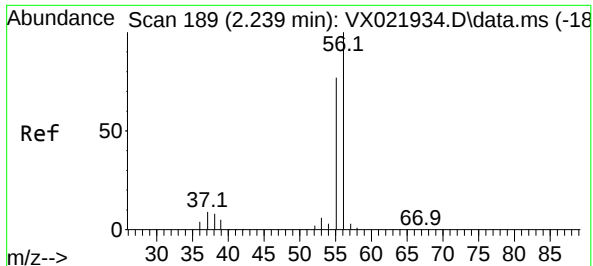
Ion Ratio Lower Upper

142 100

127 23.6 21.3 63.7

141 17.8 7.2 21.6

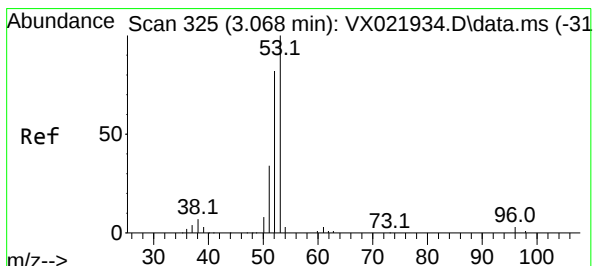
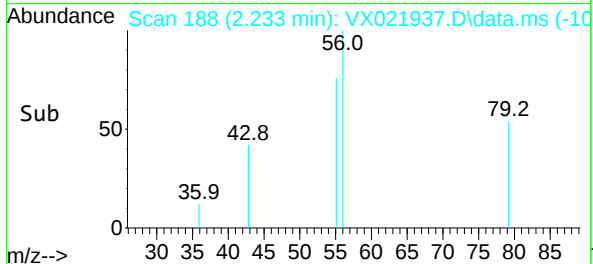
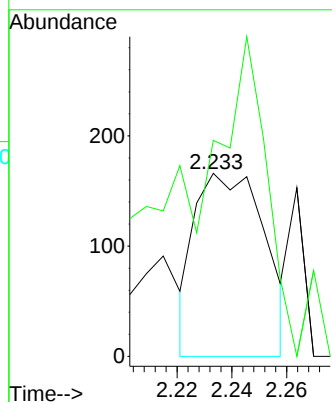
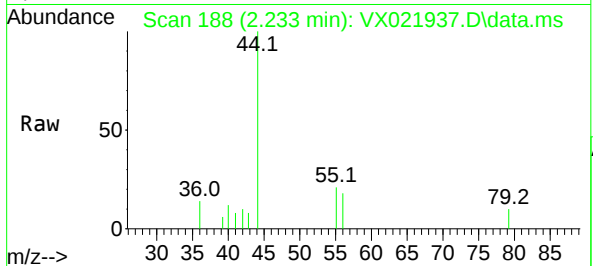




#13
Acrolein
Concen: 1.23 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

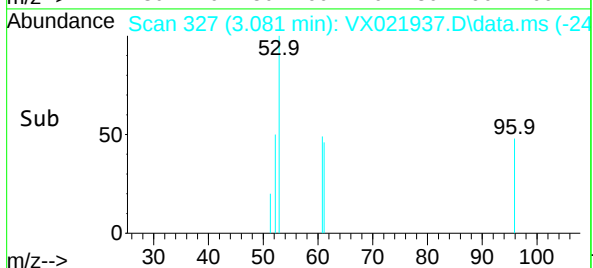
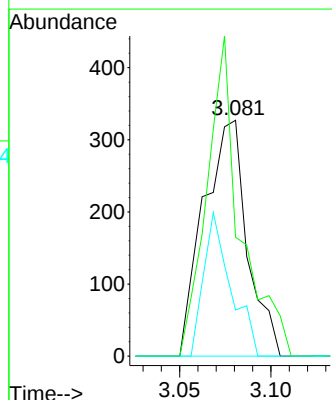
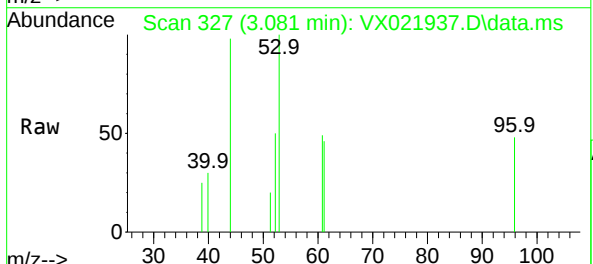
Instrument :
MSVOA_X
ClientSampleId :
IBLK

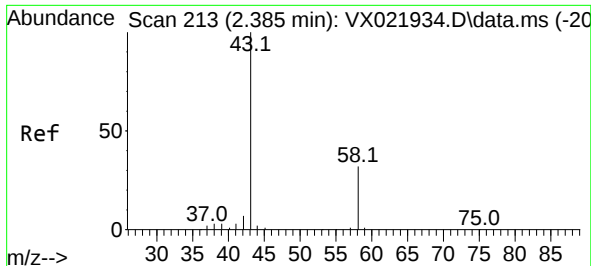
Tgt Ion: 56 Resp: 293
Ion Ratio Lower Upper
56 100
55 117.7 57.6 86.4#



#14
Acrylonitrile
Concen: 0.86 ug/l
RT: 3.081 min Scan# 327
Delta R.T. 0.013 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion: 53 Resp: 542
Ion Ratio Lower Upper
53 100
52 104.2 39.3 117.9
51 37.8 17.1 51.2

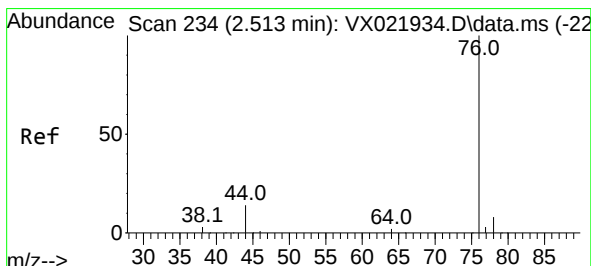
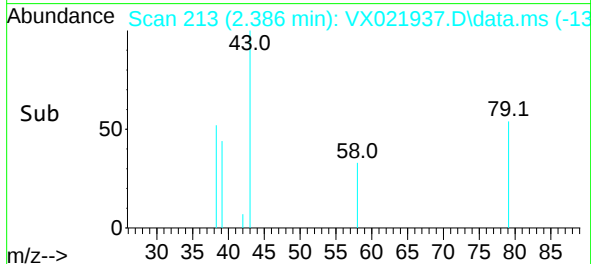
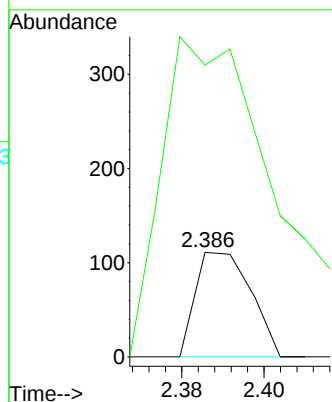
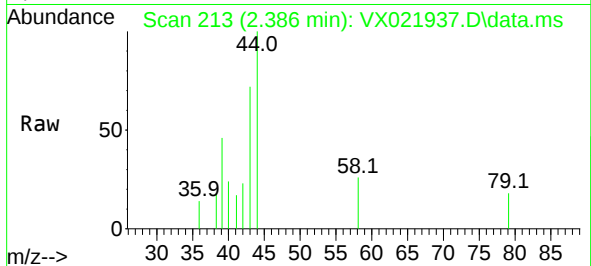




#15
Acetone
Concen: 0.55 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.001 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

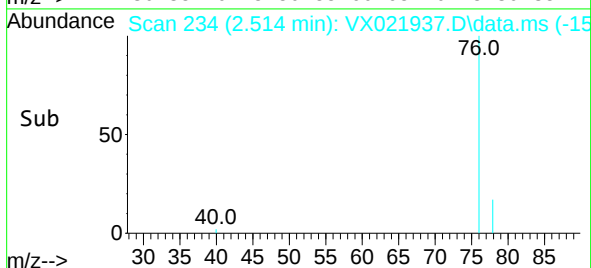
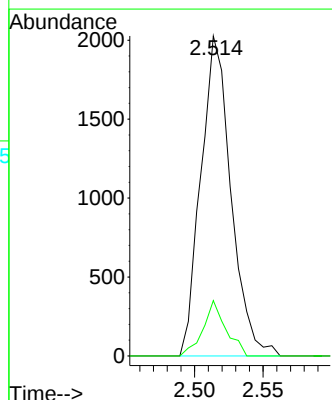
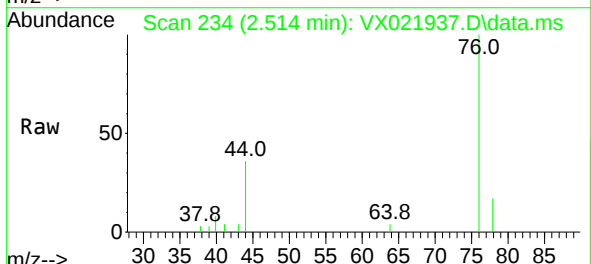
Instrument :
MSVOA_X
ClientSampleId :
IBLK

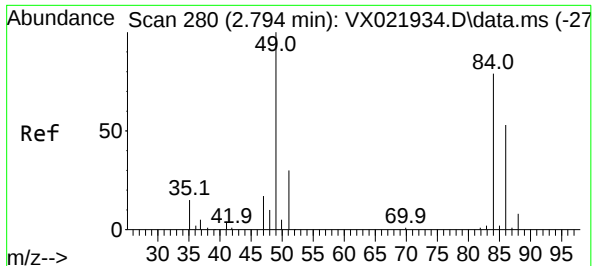
Tgt Ion: 58 Resp: 104
Ion Ratio Lower Upper
58 100
43 144.1 249.5 374.3#



#16
Carbon Disulfide
Concen: 1.02 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion: 76 Resp: 3106
Ion Ratio Lower Upper
76 100
78 17.3 6.7 10.1#





#18

Methylene Chloride

Concen: 0.76 ug/l

RT: 2.800 min Scan# 281

Delta R.T. 0.006 min

Lab File: VX021937.D

Acq: 12 May 2021 19:20

Instrument :

MSVOA_X

ClientSampled :

IBLK

Tgt Ion: 84 Resp: 1005

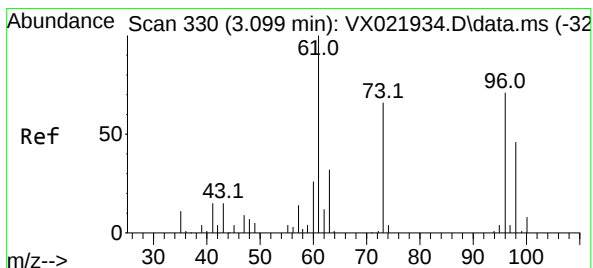
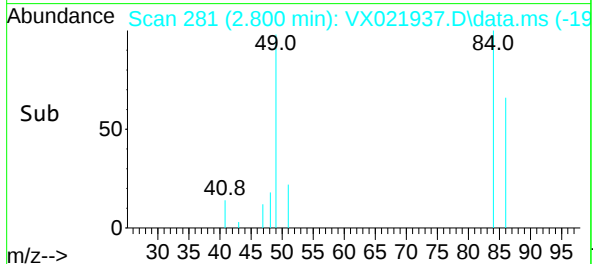
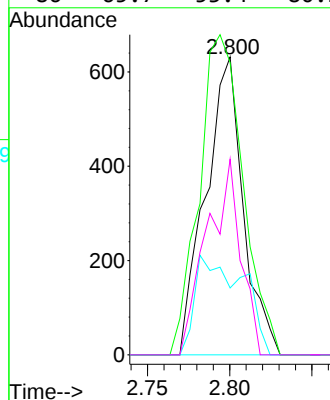
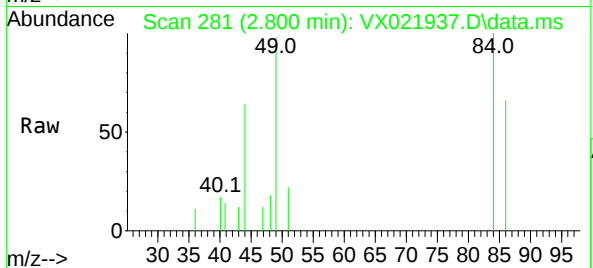
Ion Ratio Lower Upper

84 100

49 98.1 101.6 152.4#

51 22.5 30.5 45.7#

86 65.7 53.4 80.2



#19

trans-1,2-Dichloroethene

Concen: 0.35 ug/l

RT: 3.099 min Scan# 330

Delta R.T. 0.000 min

Lab File: VX021937.D

Acq: 12 May 2021 19:20

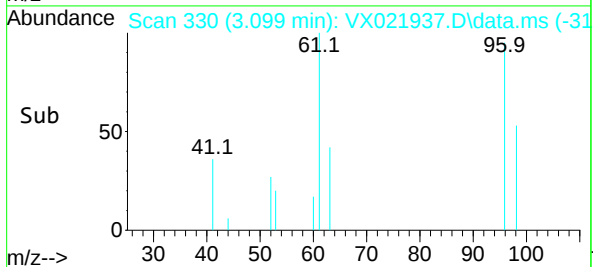
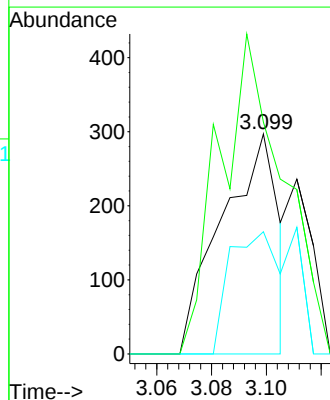
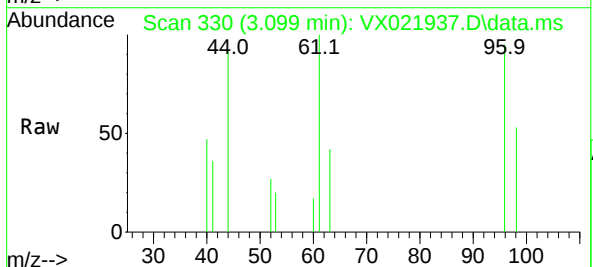
Tgt Ion: 96 Resp: 426

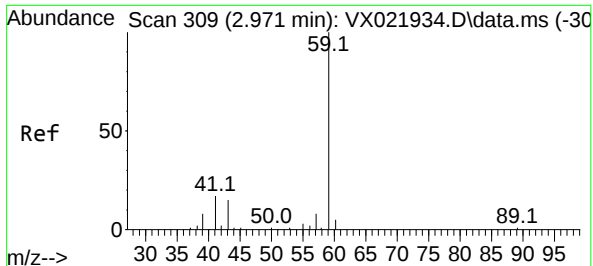
Ion Ratio Lower Upper

96 100

61 105.4 113.0 169.4#

98 55.6 51.7 77.5

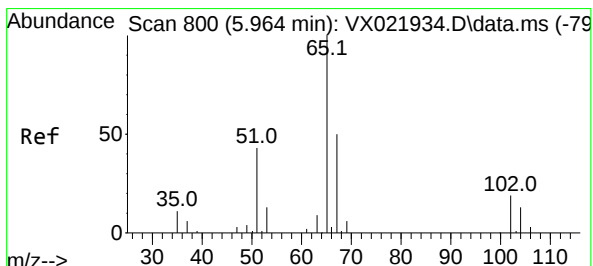
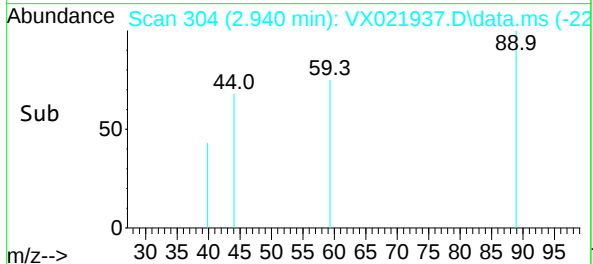
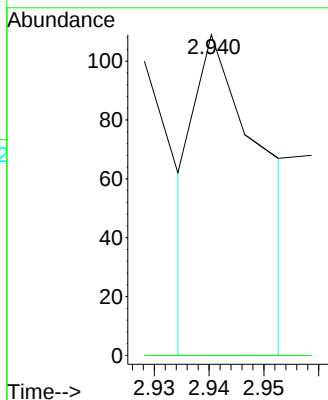
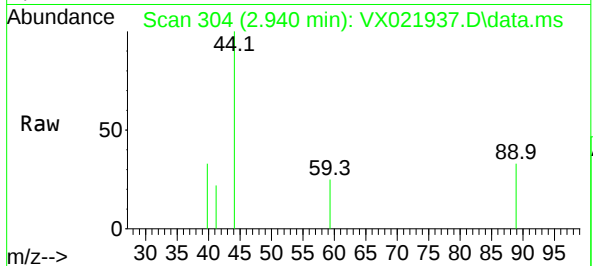




#23
tert-Butyl Alcohol
Concen: 0.30 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.031 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

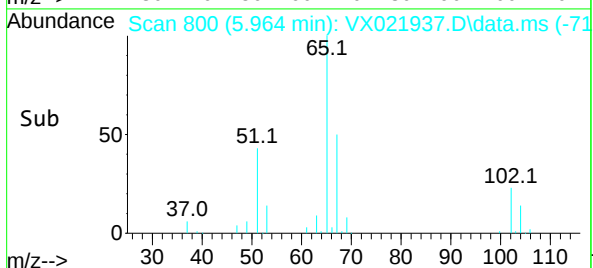
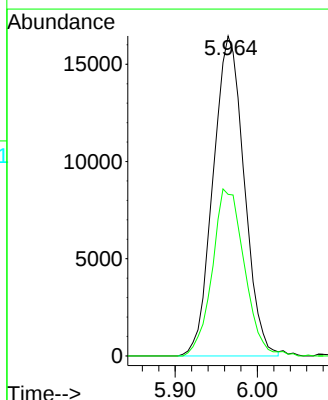
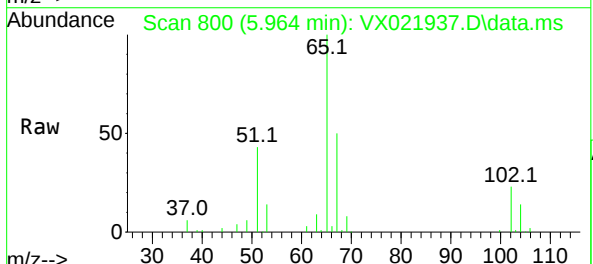
Instrument :
MSVOA_X
ClientSampleId :
IBLK

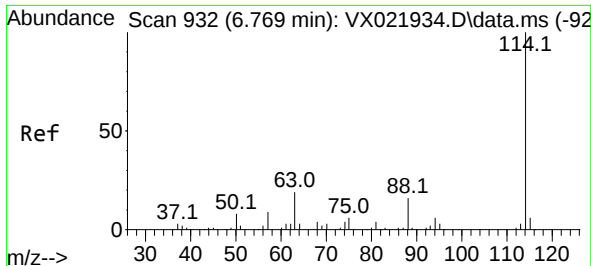
Tgt Ion: 59 Resp: 92
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 29.87 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion: 65 Resp: 43171
Ion Ratio Lower Upper
65 100
67 53.5 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX021937.D

Acq: 12 May 2021 19:20

Tgt Ion:114 Resp: 108292

Ion Ratio Lower Upper

114 100

63 20.5 16.6 25.0

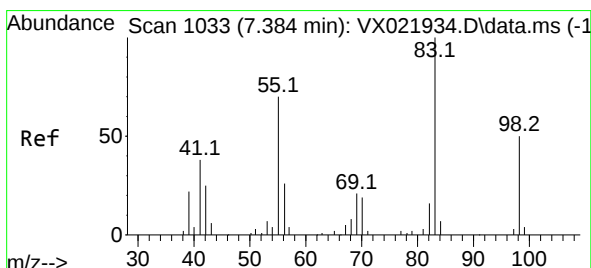
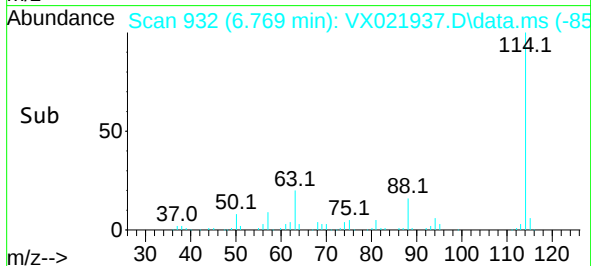
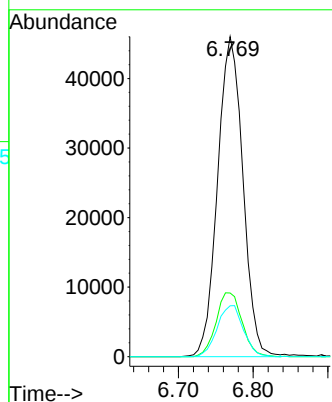
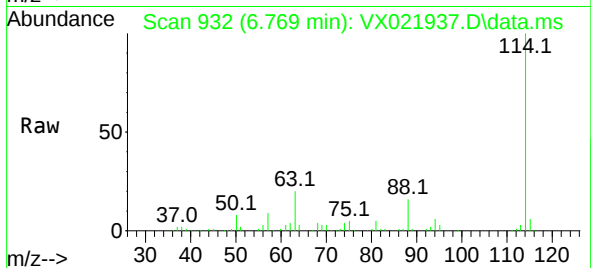
88 16.5 13.1 19.7

Instrument :

MSVOA_X

ClientSampled :

IBLK



#38

Methylcyclohexane

Concen: 0.29 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.006 min

Lab File: VX021937.D

Acq: 12 May 2021 19:20

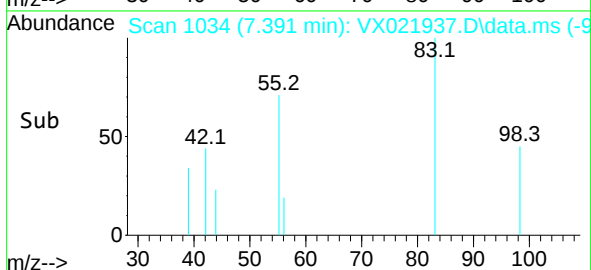
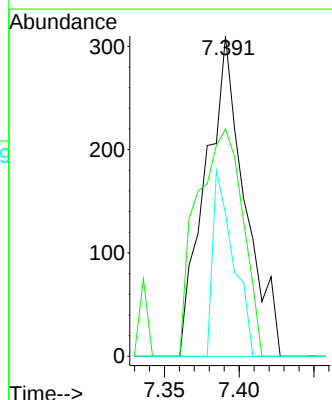
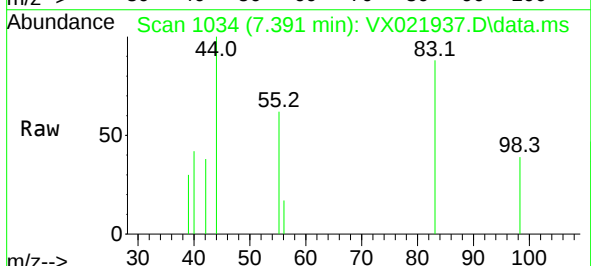
Tgt Ion: 83 Resp: 564

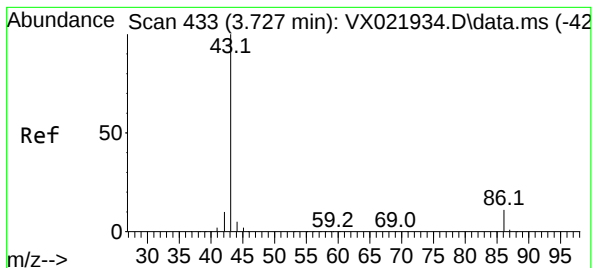
Ion Ratio Lower Upper

83 100

55 82.8 36.4 109.2

98 30.5 25.3 75.9





#42

Vinyl Acetate

Concen: 0.31 ug/l

RT: 3.733 min Scan# 434

Delta R.T. 0.006 min

Lab File: VX021937.D

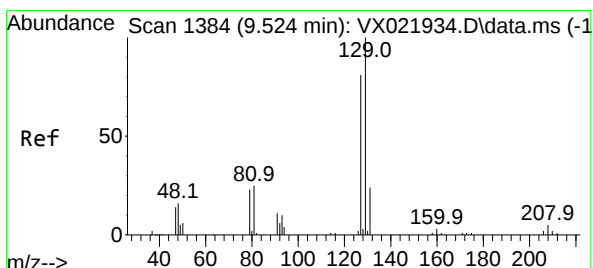
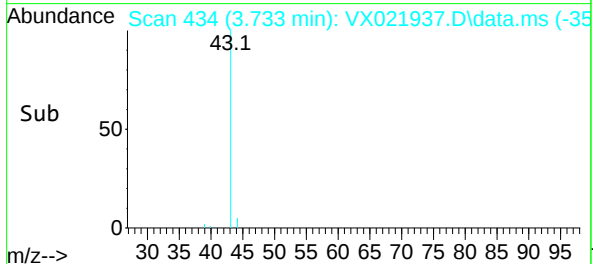
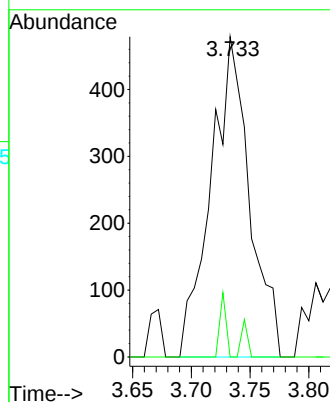
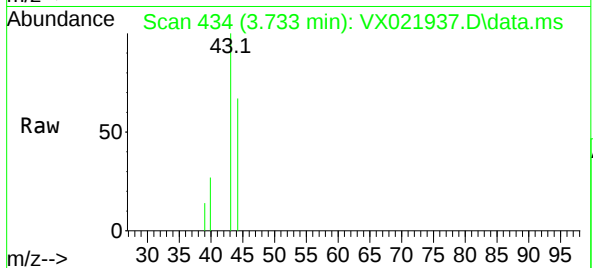
Acq: 12 May 2021 19:20

Tgt Ion: 43 Resp: 1100

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#



#53

Dibromochloromethane

Concen: 0.27 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.250 min

Lab File: VX021937.D

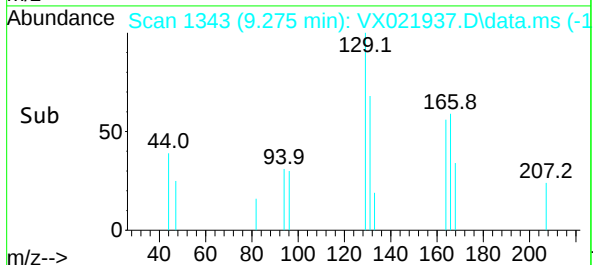
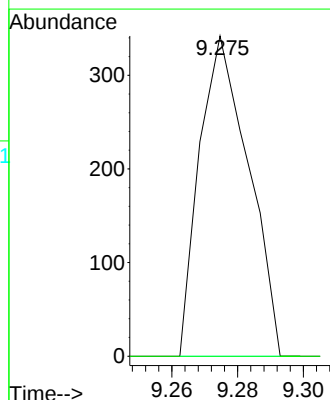
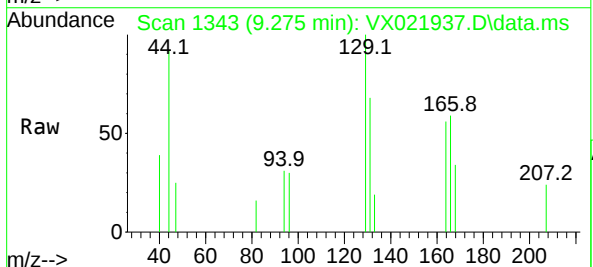
Acq: 12 May 2021 19:20

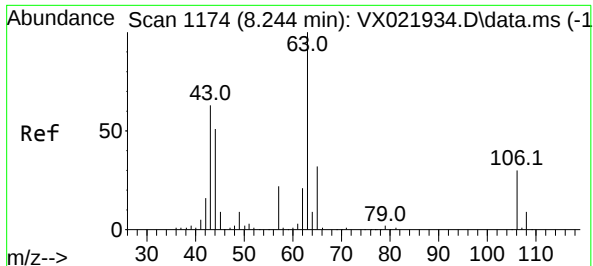
Tgt Ion: 129 Resp: 353

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#

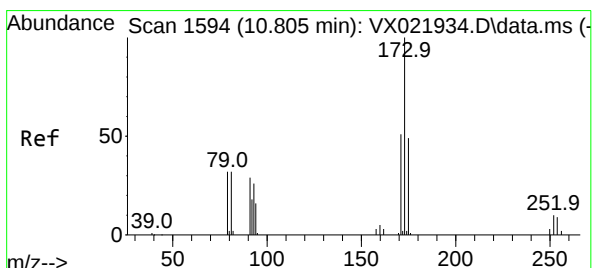
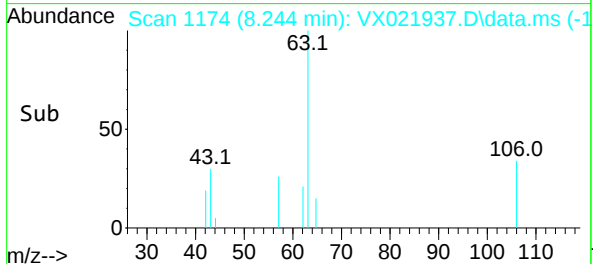
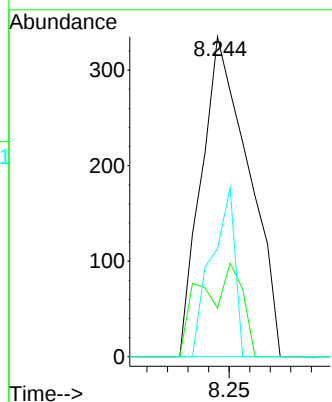
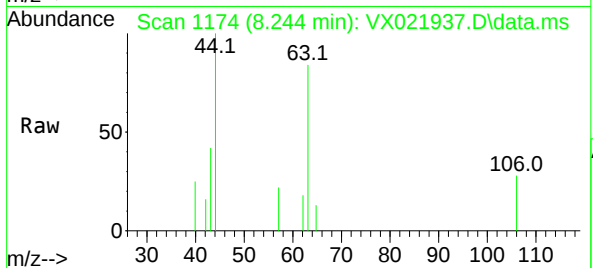




#55
2-Chloroethyl vinyl ether
Concen: 0.49 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

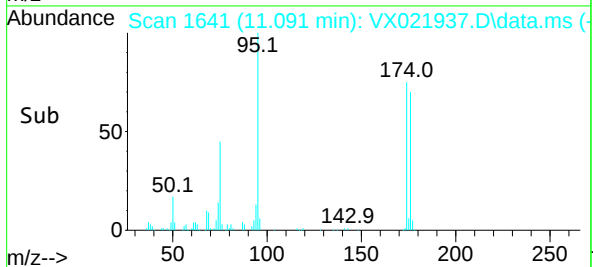
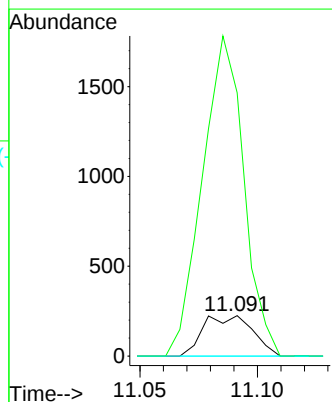
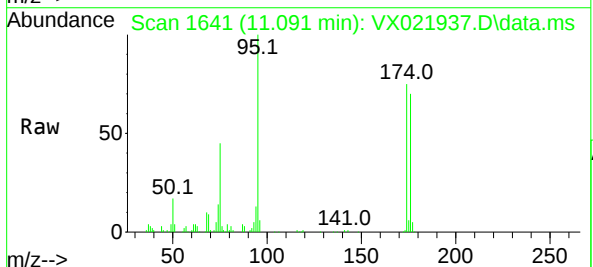
Instrument :
MSVOA_X
ClientSampled :
IBLK

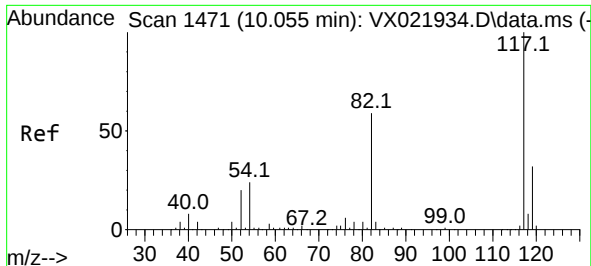
Tgt Ion:	63	Resp:	536
Ion	Ratio	Lower	Upper
63	100		
65	11.6	25.6	38.4#
106	26.1	23.2	34.8



#56
Bromoform
Concen: 0.40 ug/l
RT: 11.091 min Scan# 1641
Delta R.T. 0.287 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion:	173	Resp:	330
Ion	Ratio	Lower	Upper
173	100		
175	662.4	39.4	59.2#
254	0.0	8.0	12.0#

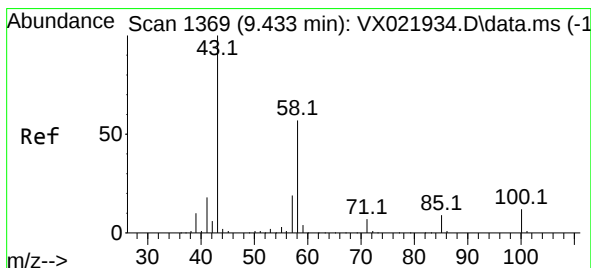
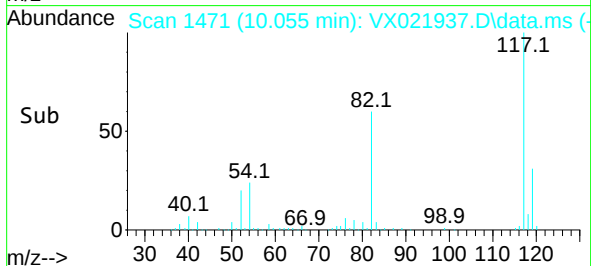
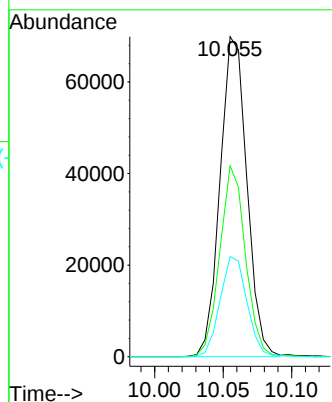
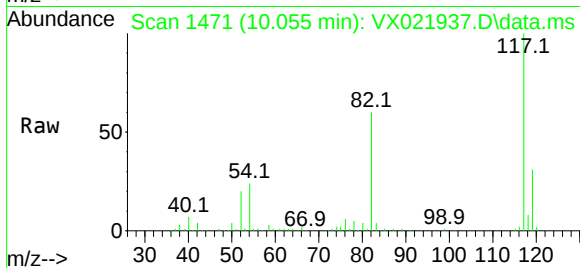




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

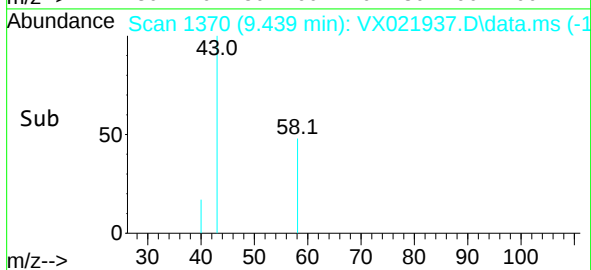
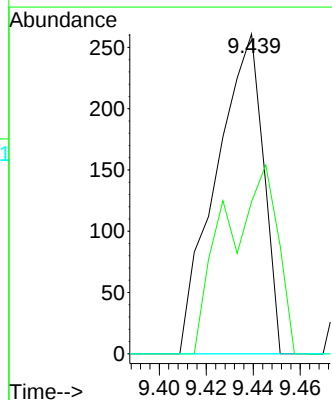
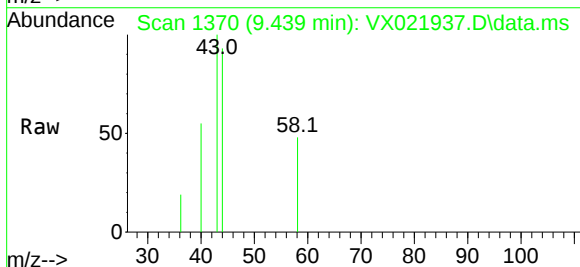
Instrument :
MSVOA_X
ClientSampleId :
IBLK

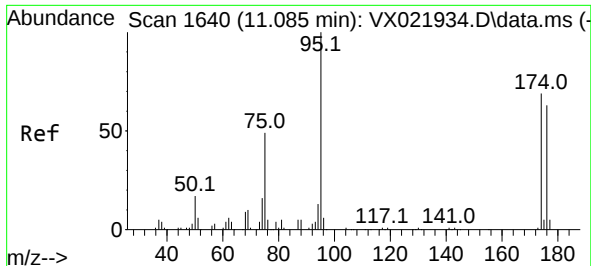
Tgt Ion:	117	Resp:	95049
Ion	Ratio	Lower	Upper
117	100		
82	57.0	44.9	67.3
119	31.4	25.0	37.6



#59
2-Hexanone
Concen: 0.26 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion:	43	Resp:	364
Ion	Ratio	Lower	Upper
43	100		
58	36.8	45.3	67.9#
57	0.0	15.0	22.6#

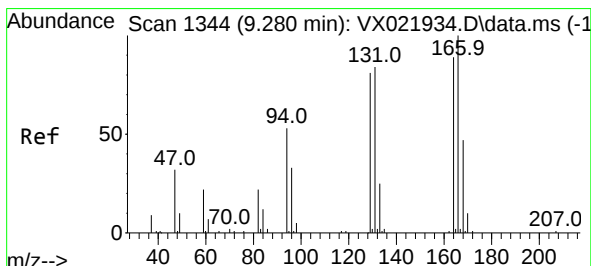
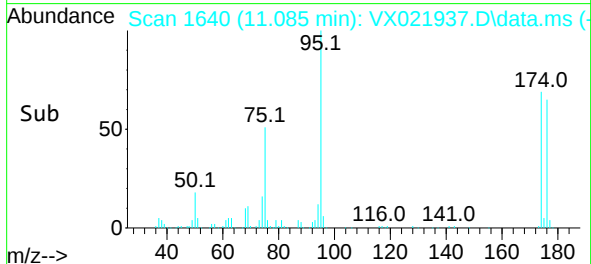
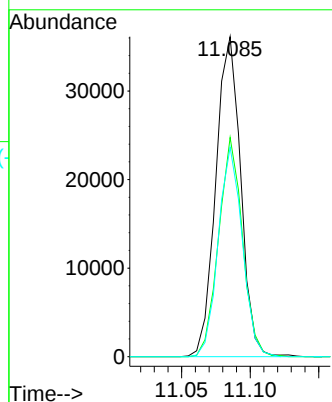
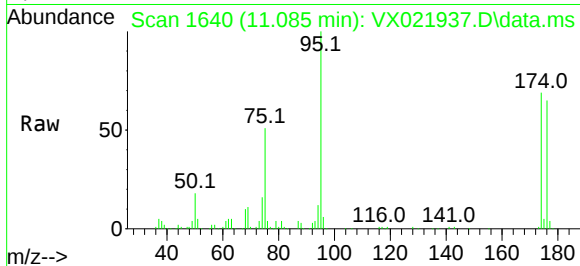




#60
4-Bromofluorobenzene
Concen: 28.85 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

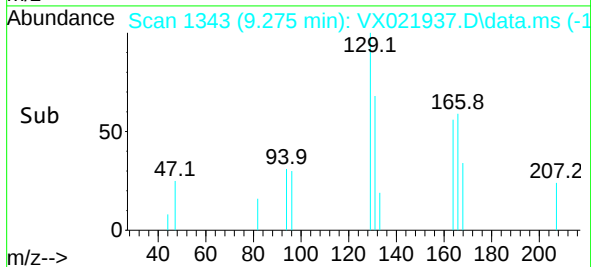
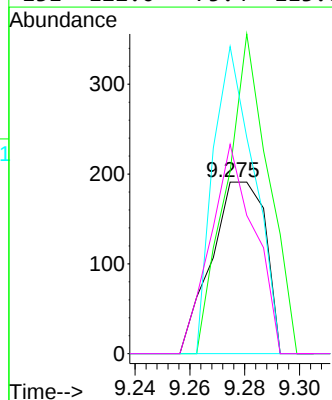
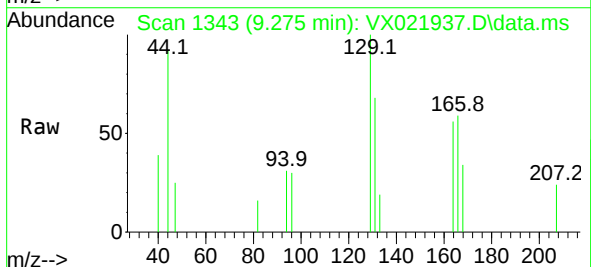
Instrument :
MSVOA_X
ClientSampleId :
IBLK

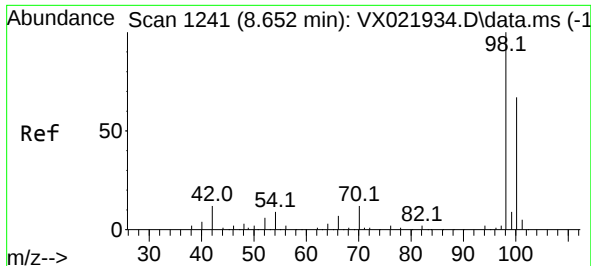
Tgt Ion:	95	Resp:	45513
Ion Ratio	Lower	Upper	
95	100		
174	65.6	52.2	78.2
176	63.3	49.3	73.9



#61
Tetrachloroethene
Concen: 0.24 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.005 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion:	164	Resp:	261
Ion Ratio	Lower	Upper	
164	100		
166	106.3	90.2	135.4
129	179.1	73.4	110.0#
131	122.0	75.4	113.0#

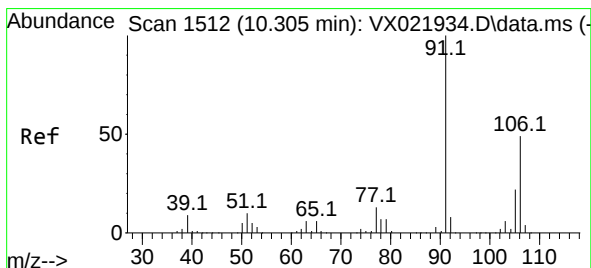
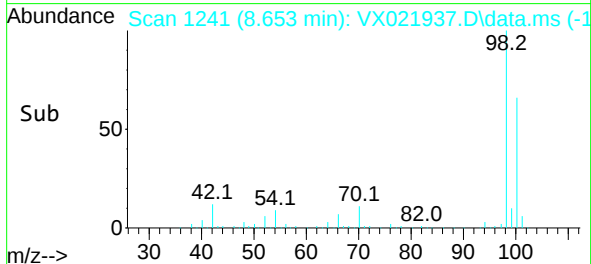
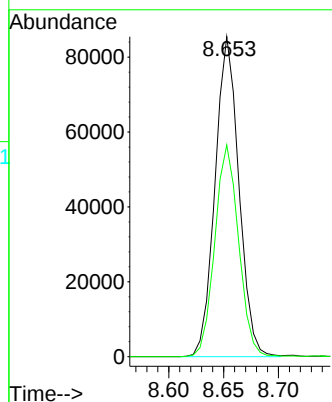
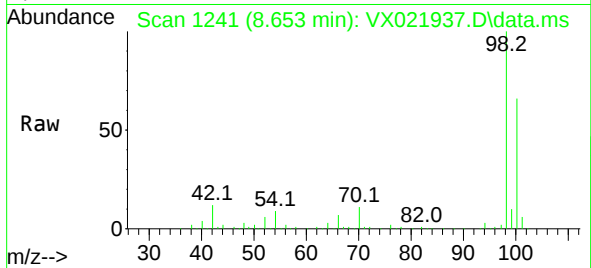




#63
Toluene-d8
Concen: 29.77 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.001 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

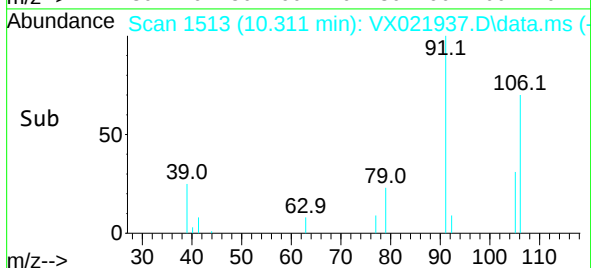
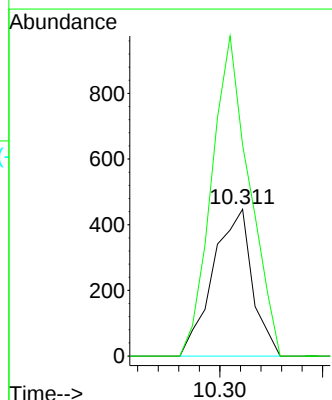
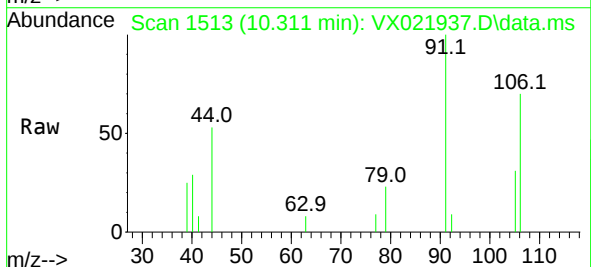
Instrument :
MSVOA_X
ClientSampled :
IBLK

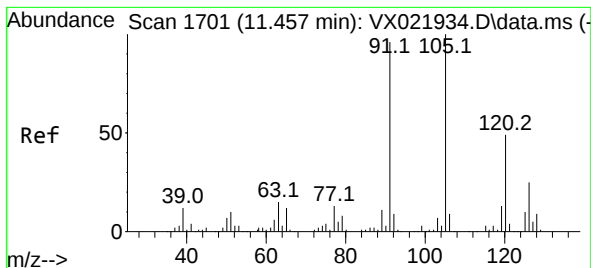
Tgt Ion: 98 Resp: 129308
Ion Ratio Lower Upper
98 100
100 66.0 52.6 78.8



#67
m/p-Xylenes
Concen: 0.26 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.006 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion: 106 Resp: 592
Ion Ratio Lower Upper
106 100
91 209.6 166.0 249.0

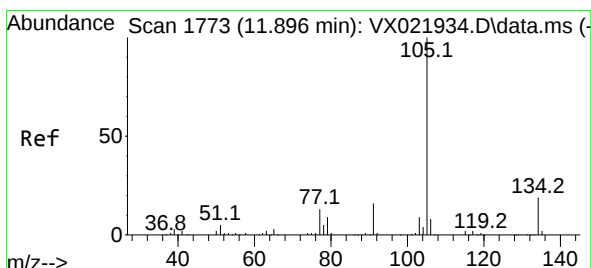
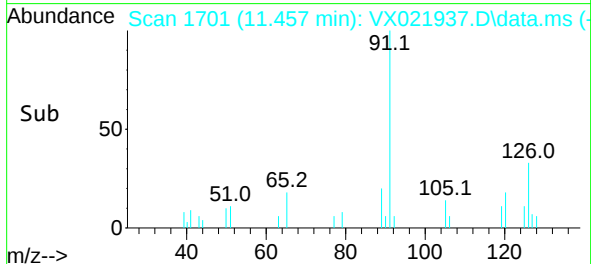
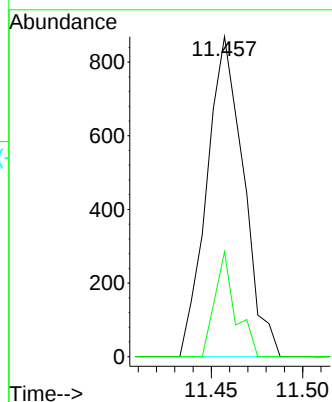
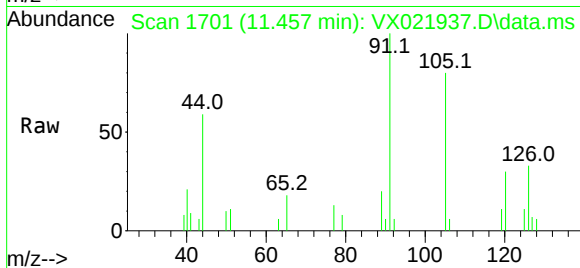




#78
4-Chlorotoluene
Concen: 0.26 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

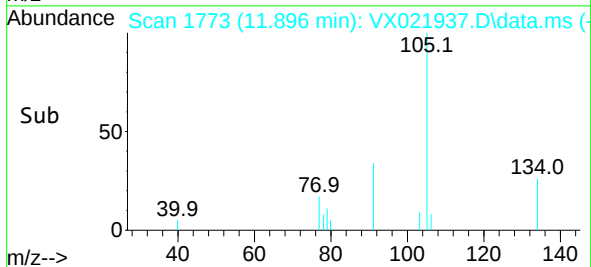
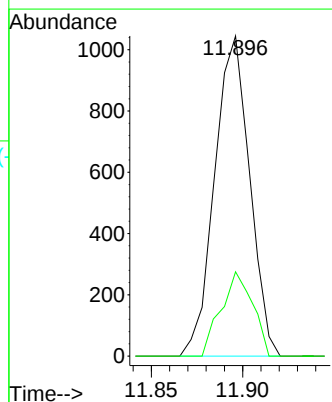
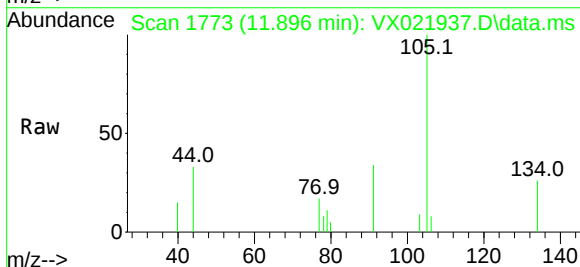
Instrument :
MSVOA_X
ClientSampled :
IBLK

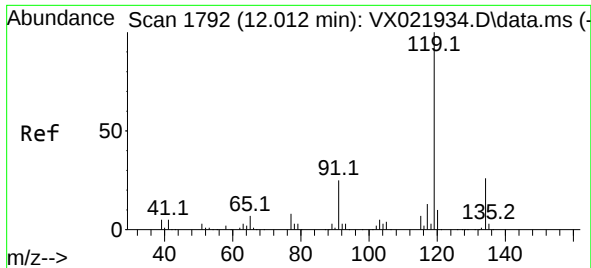
Tgt Ion: 91 Resp: 1217
Ion Ratio Lower Upper
91 100
126 18.4 0.0 55.8



#81
sec-Butylbenzene
Concen: 0.24 ug/l
RT: 11.896 min Scan# 1773
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion: 105 Resp: 1393
Ion Ratio Lower Upper
105 100
134 23.8 0.0 38.8

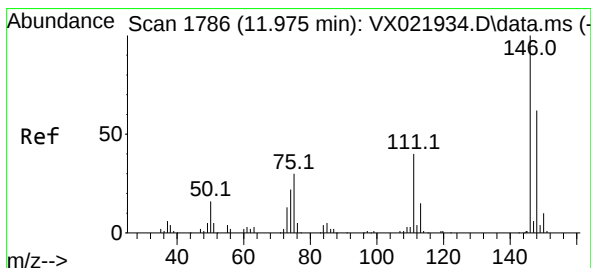
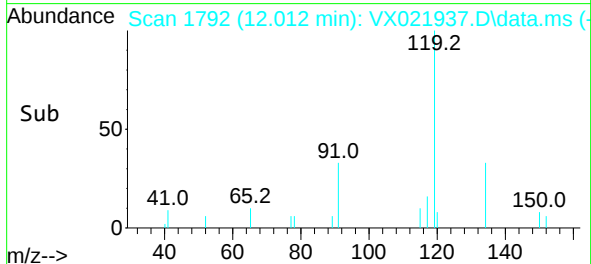
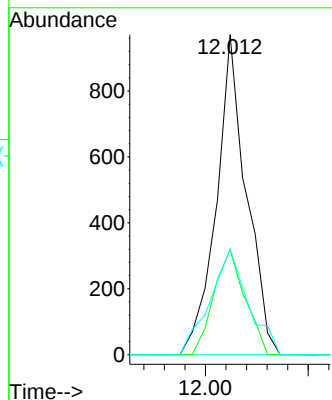
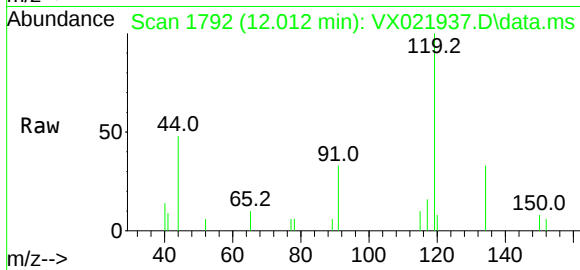




#82
p-Isopropyltoluene
Concen: 0.20 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

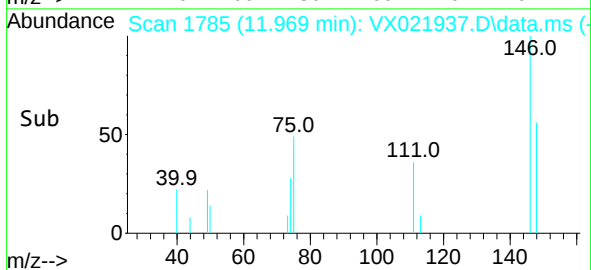
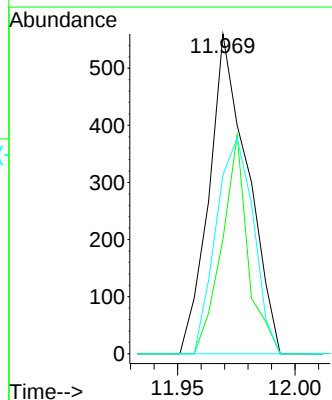
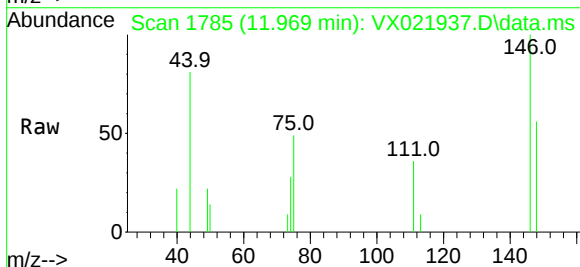
Instrument :
MSVOA_X
ClientSampleId :
IBLK

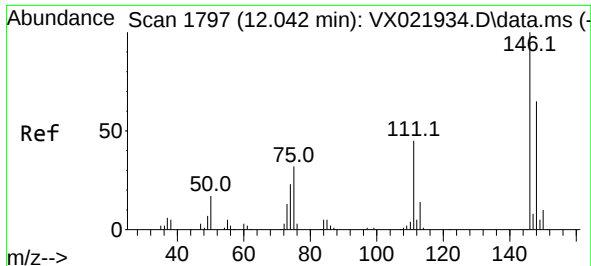
Tgt Ion:	119	Resp:	981
Ion	Ratio	Lower	Upper
119	100		
134	34.1	0.0	50.4
91	42.0	0.0	51.0



#83
1,3-Dichlorobenzene
Concen: 0.27 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.006 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion:	146	Resp:	639
Ion	Ratio	Lower	Upper
146	100		
111	46.2	22.1	66.5
148	65.4	31.1	93.5

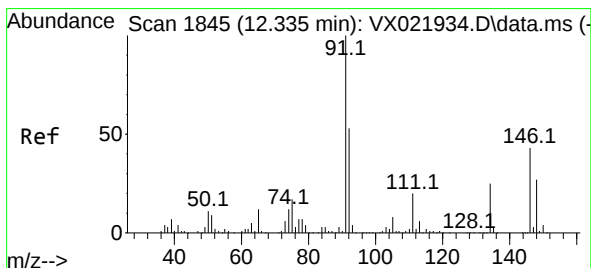
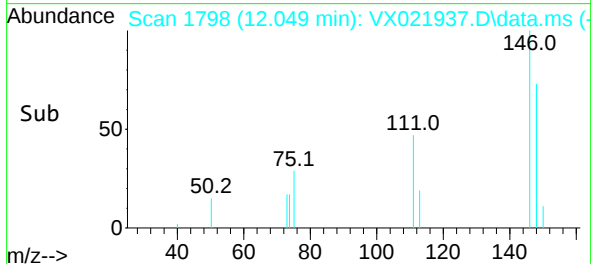
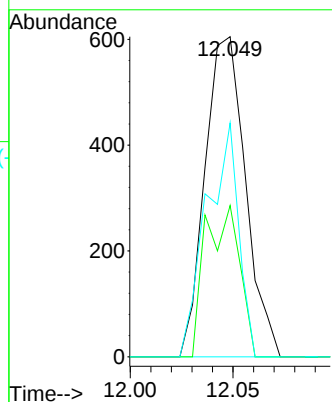
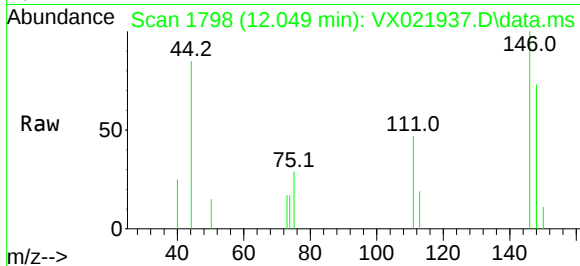




#84
1,4-Dichlorobenzene
Concen: 0.35 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.006 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

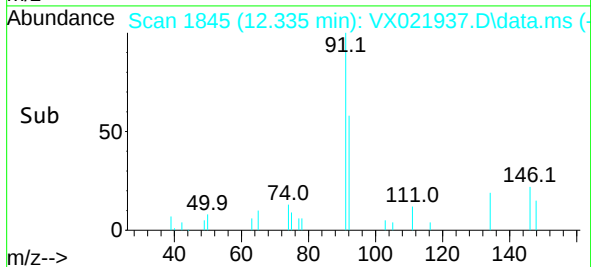
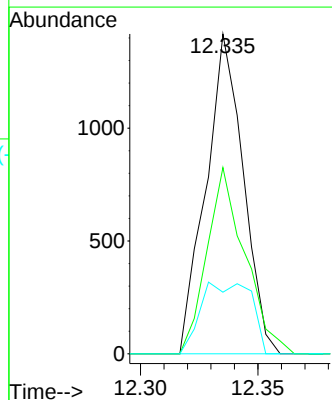
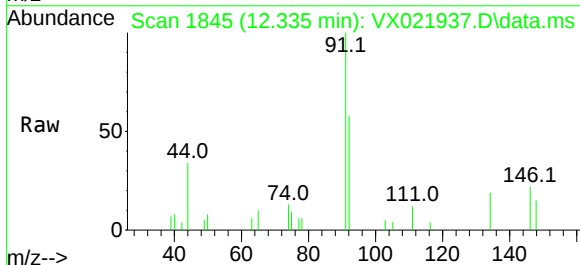
Instrument :
MSVOA_X
ClientSampled :
IBLK

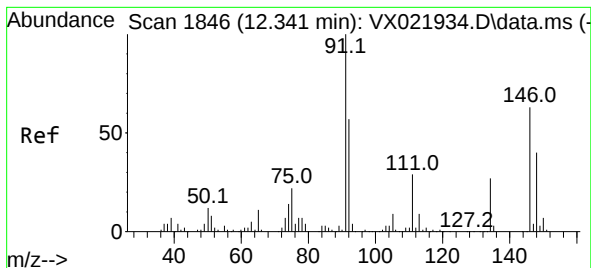
Tgt Ion:	146	Resp:	829
Ion	Ratio	Lower	Upper
146	100		
111	39.8	21.0	63.0
148	57.5	31.6	95.0



#85
n-Butylbenzene
Concen: 0.35 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion:	91	Resp:	1568
Ion	Ratio	Lower	Upper
91	100		
92	59.4	0.0	111.0
134	16.4	0.0	49.8

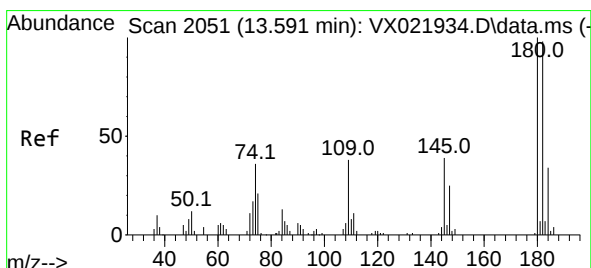
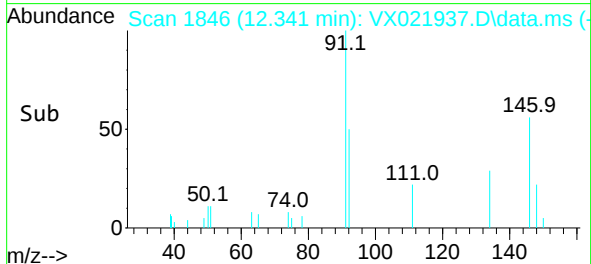
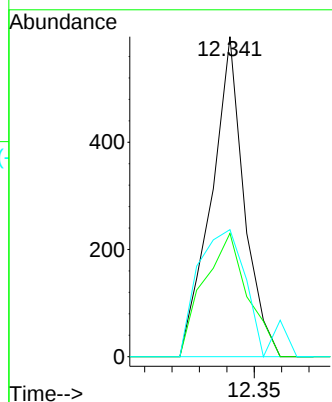
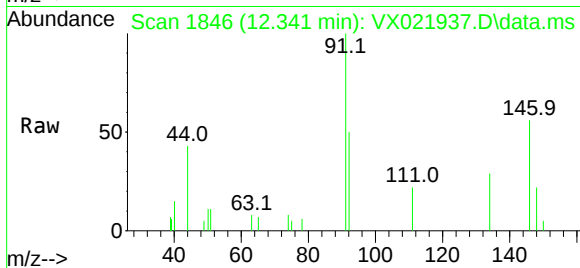




#87
1,2-Dichlorobenzene
Concen: 0.22 ug/l
RT: 12.341 min Scan# 1846
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

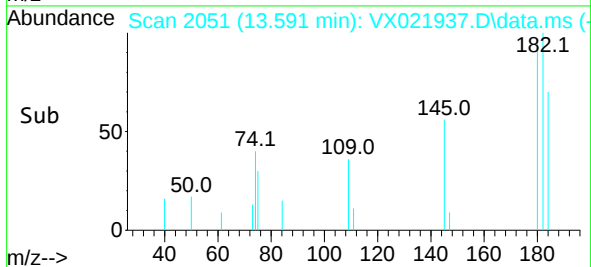
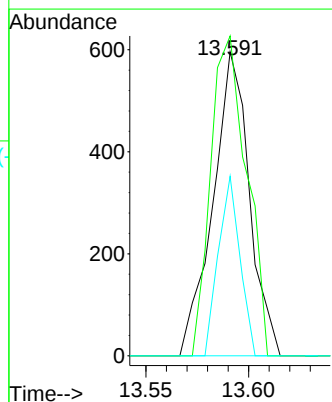
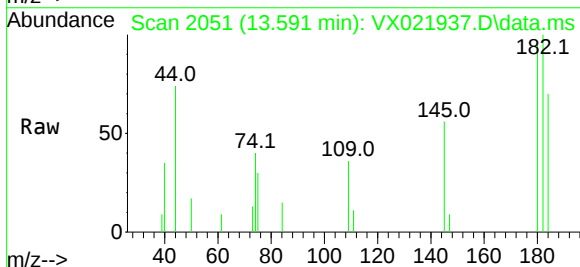
Instrument :
MSVOA_X
ClientSampled :
IBLK

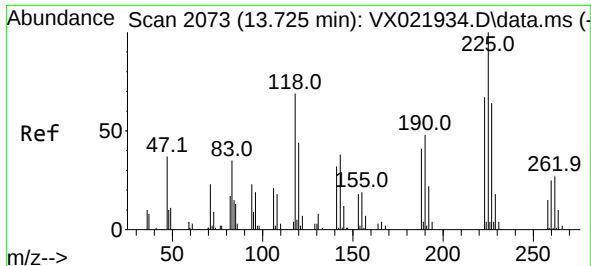
Tgt Ion:	146	Resp:	495
Ion	Ratio	Lower	Upper
146	100		
111	51.5	22.9	68.8
148	56.8	31.9	95.9



#89
1,2,4-Trichlorobenzene
Concen: 0.53 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

Tgt Ion:	180	Resp:	735
Ion	Ratio	Lower	Upper
180	100		
182	103.7	77.8	116.6
145	34.8	30.0	45.0

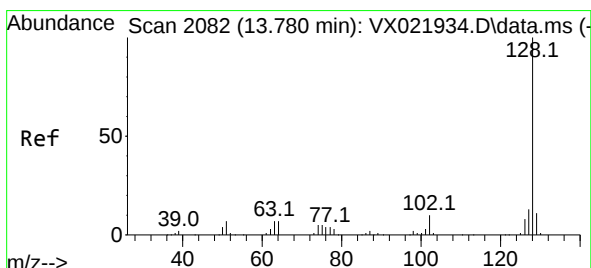
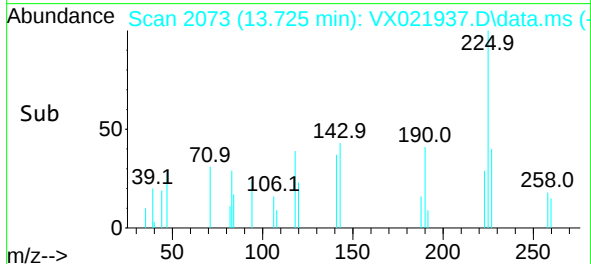
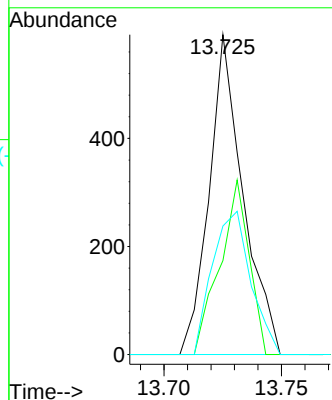
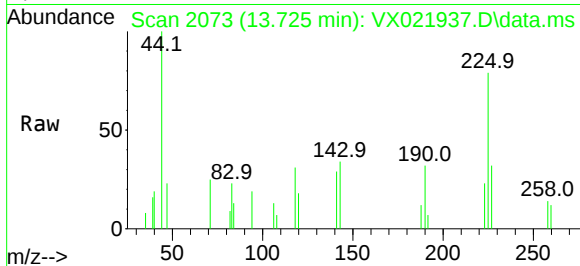




#90
Hexachlorobutadiene
Concen: 1.11 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

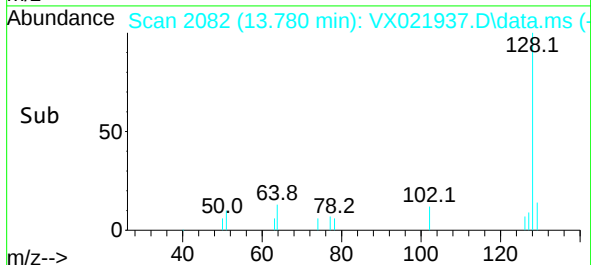
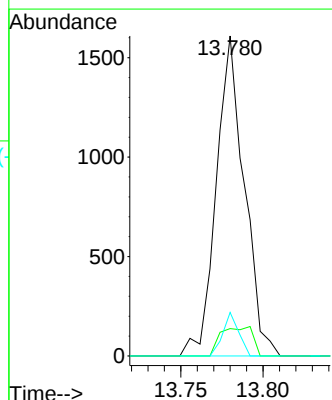
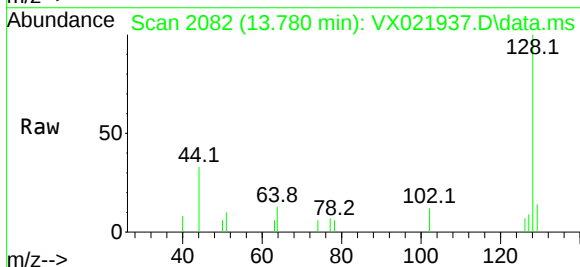
Instrument :
MSVOA_X
ClientSampleId :
IBLK

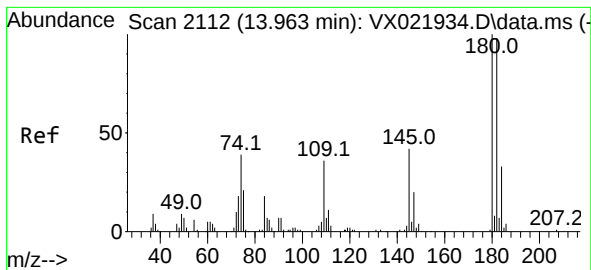
Tgt Ion:225	Resp:	594
Ion	Ratio	Lower Upper
225	100	
223	47.1	0.0 128.0
227	50.8	0.0 129.6



#91
Naphthalene
Concen: 0.35 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX021937.D
Acq: 12 May 2021 19:20

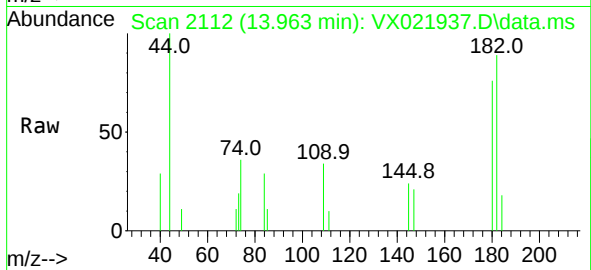
Tgt Ion:128	Resp:	1906
Ion	Ratio	Lower Upper
128	100	
127	7.5	10.4 15.6#
129	7.7	9.2 13.8#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.42 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. 0.000 min
 Lab File: VX021937.D
 Acq: 12 May 2021 19:20

Instrument :
 MSVOA_X
 ClientSampleId :
 IBLK



Tgt Ion:	180	Resp:	579
Ion	Ratio	Lower	Upper
180	100		
182	110.7	0.0	192.6
145	44.0	0.0	75.8

