

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100720\
 Data File : VX018814.D
 Acq On : 07 Oct 2020 16:24
 Operator : JC/SP
 Sample : L4240-03DL 40X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3R0DL

Quant Time: Oct 08 01:18:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 08 01:16:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	129127	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	133588	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	66746	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	26906	3.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.20%
7) Chloroethane-d5	1.70	69	25163	4.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.20%
11) 1,1-Dichloroethene-d2	2.34	63	48144	2.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.60%#
20) 2-Butanone-d5	4.56	46	102018	51.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.12%
24) Chloroform-d	5.13	84	73748	4.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.80%
26) 1,2-Dichloroethane-d4	6.02	65	45458	4.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.60%
32) Benzene-d6	6.04	84	127979	3.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.20%
36) 1,2-Dichloropropane-d6	7.37	67	41256	4.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.00%
41) Toluene-d8	8.70	98	120262	3.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.40%
45) trans-1,3-Dichloropropene-	8.99	79	21994	4.26	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.20%
48) 2-Hexanone-d5	9.43	63	81356	47.01	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.02%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	34627	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.80%
65) 1,2-Dichlorobenzene-d4	12.36	152	50242	4.08	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	81.60%

Target Compounds

					Ovalue
8) Chloroethane	1.78	64	1622	0.384 ug/L #	52
13) Acetone	2.46	43	1022	0.946 ug/L	91
14) Carbon disulfide	2.60	76	2241	0.111 ug/L	95
15) Methyl Acetate	2.87	43	243954	91.890 ug/L #	48
16) Methylene chloride	2.84	84	10451	1.340 ug/L	81
22) cis-1,2-Dichloroethene	4.56	96	286	0.040 ug/L #	77
30) Cyclohexane	5.54	56	13755	1.255 ug/L	95
33) Benzene	6.11	78	2135	0.076 ug/L	100
35) Methylcyclohexane	7.43	83	3794	0.324 ug/L #	83
39) cis-1,3-Dichloropropene	8.37	75	1605	0.143 ug/L #	1
40) 4-Methyl-2-pentanone	8.65	43	5707	1.406 ug/L #	51
43) 1,3,5-Trimethylbenzene	11.49	105	9255	0.319 ug/L	92
44) 1,2,4-Trimethylbenzene	11.79	105	28480	0.969 ug/L	100
47) 1,1,2-Trichloroethane	9.14	97	29282	5.536 ug/L #	21
50) 2-Hexanone	9.43	43	26460	8.973 ug/L #	44
53) Chlorobenzene	10.12	112	222857	10.643 ug/L	92
54) Ethylbenzene	10.23	91	4181	0.122 ug/L	85

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

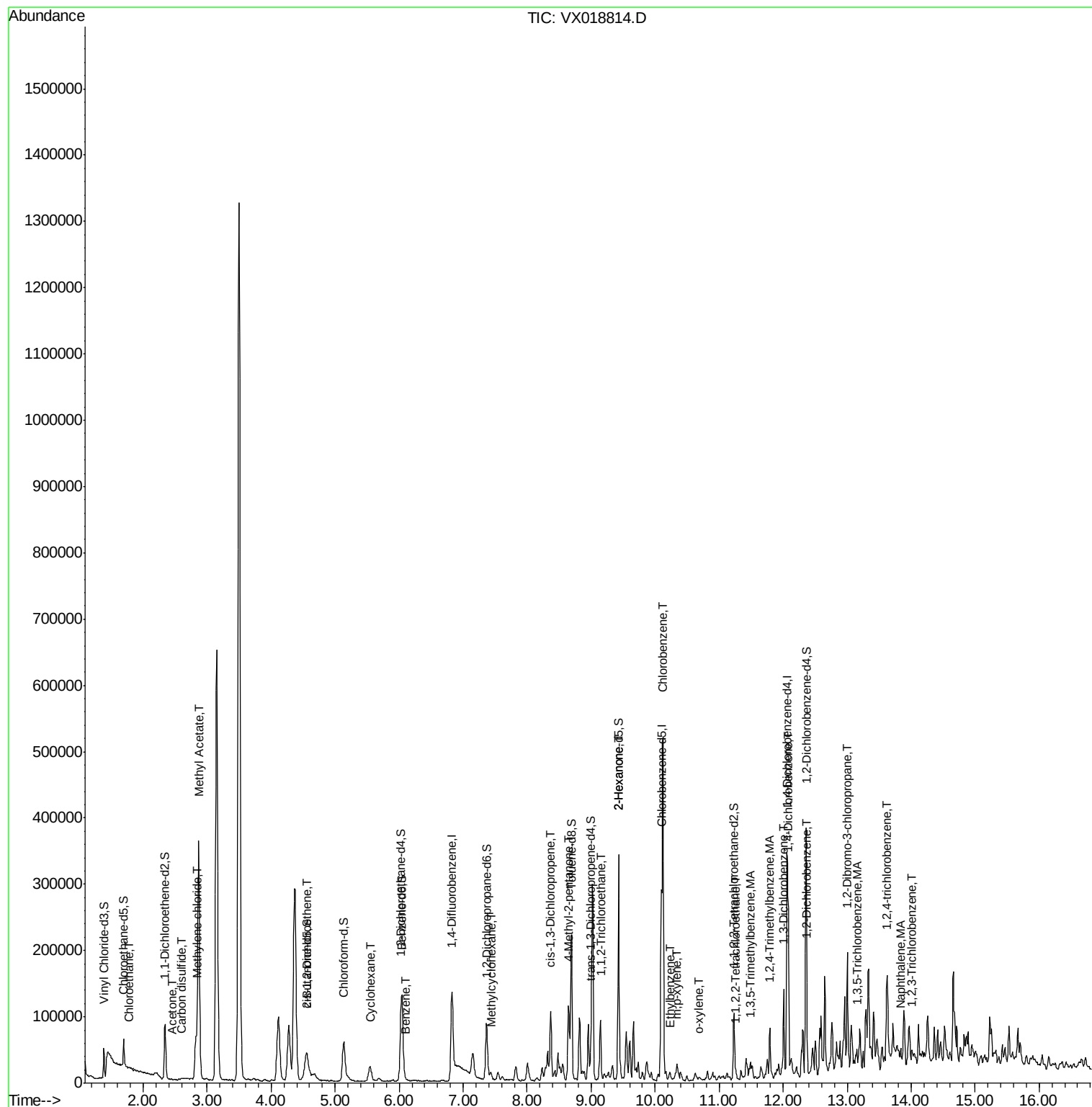
55) m,p-xylene	10.34	106	4147	0.310	ug/L	97
56) o-xylene	10.68	106	744	0.060	ug/L	63
60) 1,1,2,2-Tetrachloroethane	11.26	83	856	0.146	ug/L #	78
63) 1,3-Dichlorobenzene	12.01	146	36728	2.264	ug/L	93
64) 1,4-Dichlorobenzene	12.08	146	61050	3.773	ug/L	97
66) 1,2-Dichlorobenzene	12.38	146	1984	0.131	ug/L #	82
67) 1,2-Dibromo-3-chloropropan	13.00	75	739	0.572	ug/L #	13
68) 1,3,5-Trichlorobenzene	13.15	180	1278	0.102	ug/L #	77
69) 1,2,4-trichlorobenzene	13.63	180	12755	1.230	ug/L #	86
70) Naphthalene	13.82	128	7002	0.413	ug/L #	90
71) 1,2,3-Trichlorobenzene	14.00	180	1995	0.214	ug/L #	27

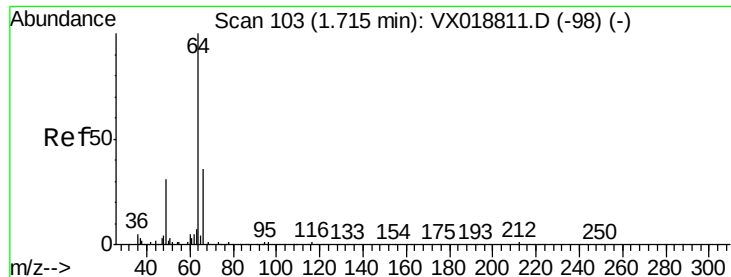
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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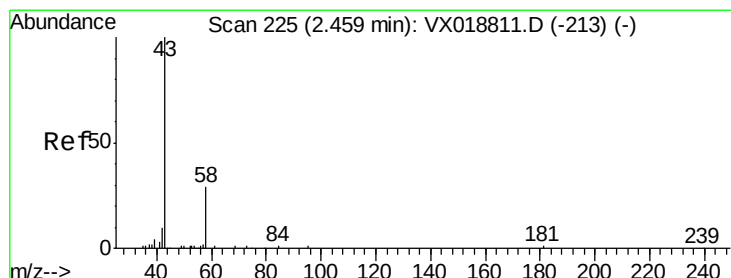
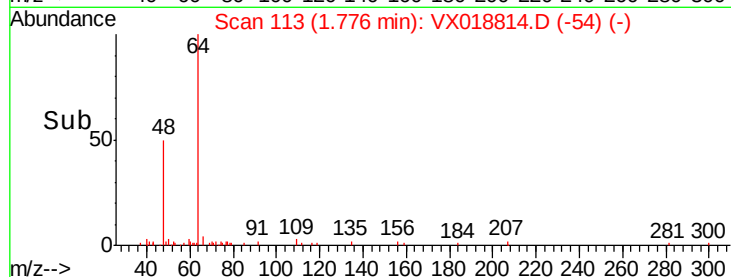
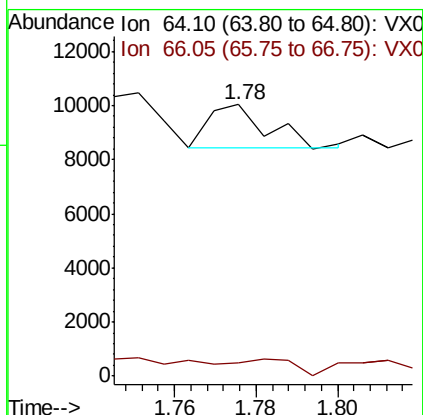
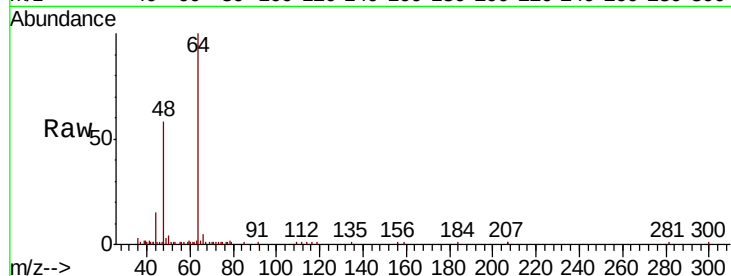




#8
Chloroethane
Concen: 0.384 ug/L
RT: 1.78 min Scan# 113
Delta R.T. 0.06 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

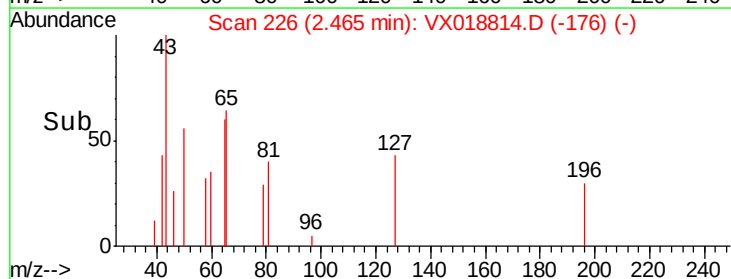
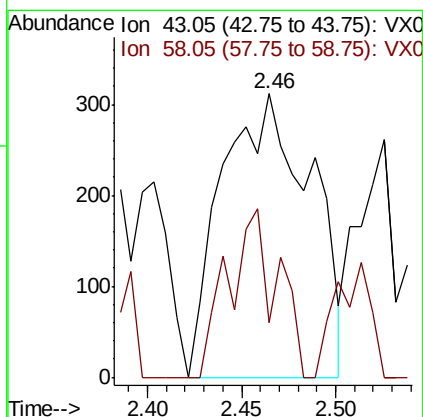
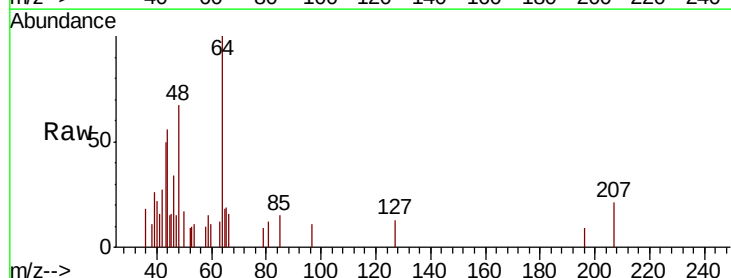
Instrument :
MSVOA_X
ClientSampleId :
BG3R0DL

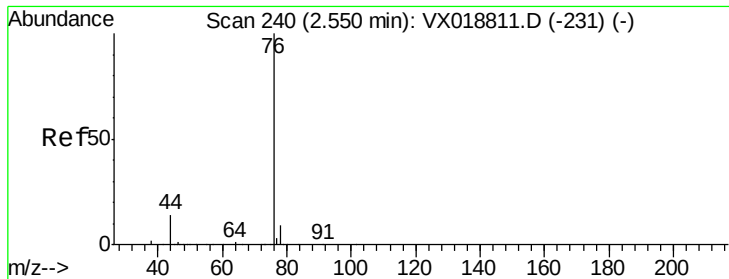
Tot Ion: 64 Resp: 1622
Ion Ratio Lower Upper
64 100
66 4.7 21.5 39.9#



#13
Acetone
Concen: 0.946 ug/L
RT: 2.46 min Scan# 226
Delta R.T. 0.01 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Tgt Ion: 43 Resp: 1022
Ion Ratio Lower Upper
43 100
58 32.8 0.0 56.4





#14

Carbon disulfide

Concen: 0.111 ug/L

RT: 2.60 min Scan# 248

Delta R.T. 0.05 min

Lab File: VX018814.D

Acq: 07 Oct 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

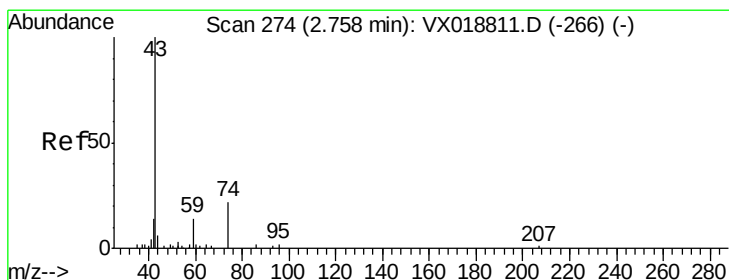
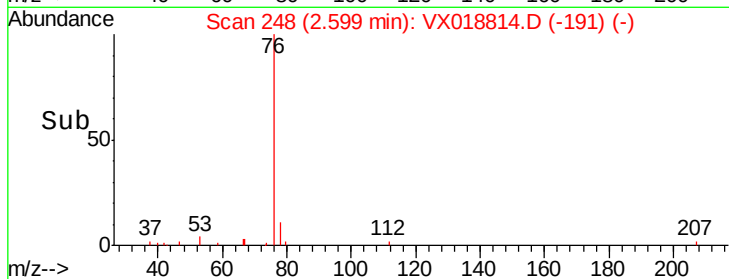
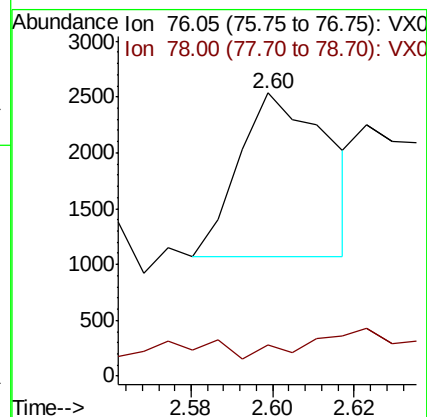
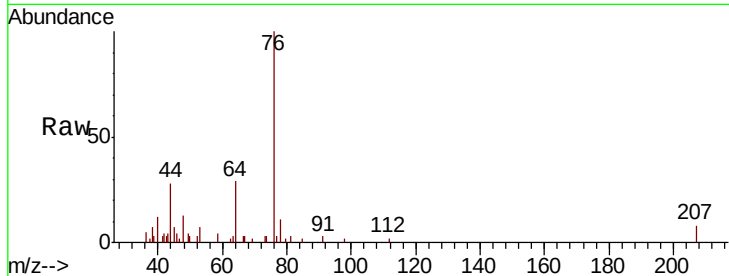
BG3R0DL

Tot Ion: 76 Resp: 2241

Ion Ratio Lower Upper

76 100

78 11.0 7.4 11.2



#15

Methyl Acetate

Concen: 91.890 ug/L

RT: 2.87 min Scan# 292

Delta R.T. 0.11 min

Lab File: VX018814.D

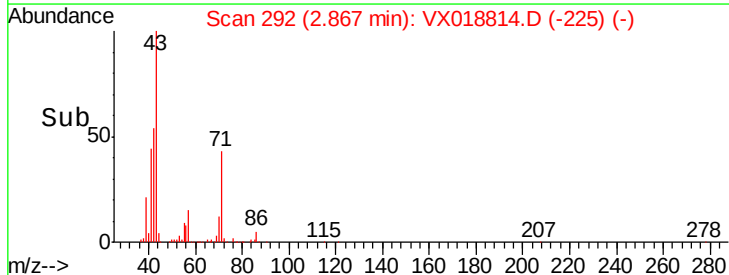
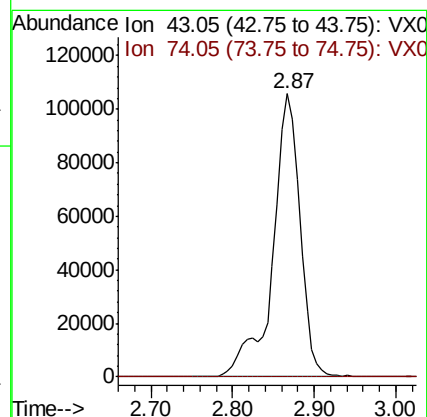
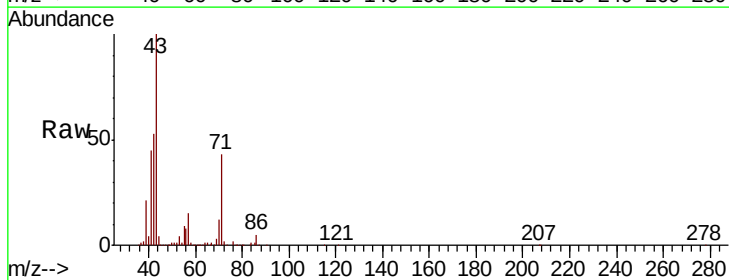
Acq: 07 Oct 2020 16:24

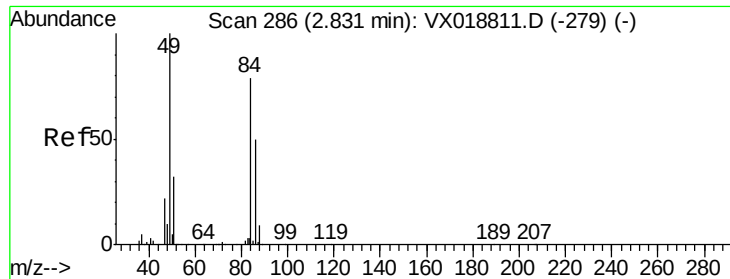
Tgt Ion: 43 Resp: 243954

Ion Ratio Lower Upper

43 100

74 0.1 21.9 32.9#

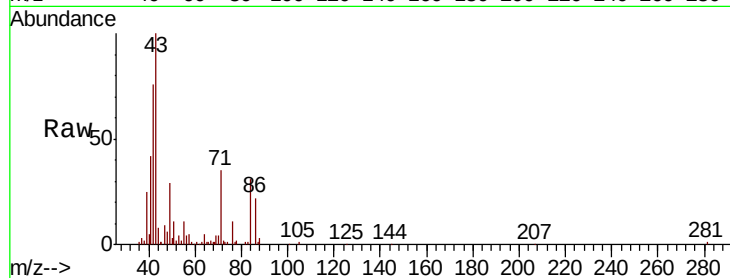




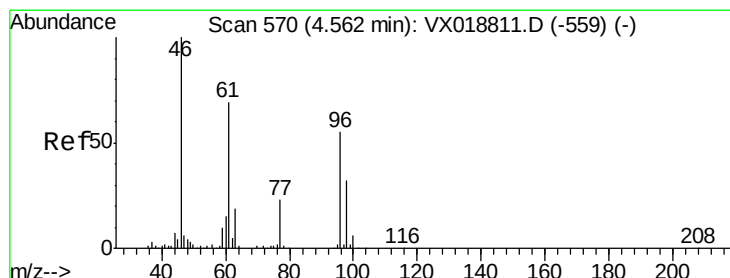
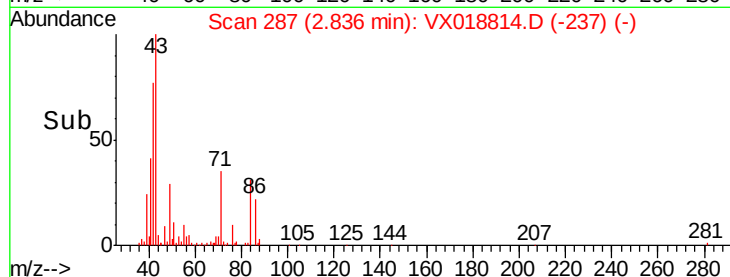
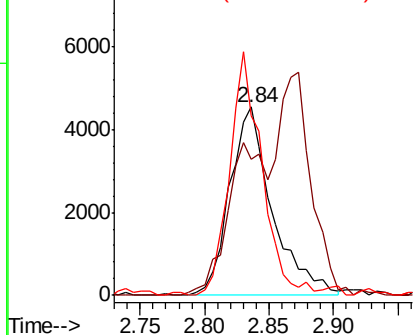
#16
Methylene chloride
Concen: 1.340 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Instrument :
MSVOA_X
ClientSampleId :
BG3R0DL

Tot Ion: 84 Resp: 10451
Ion Ratio Lower Upper
84 100
86 72.1 45.6 84.8
49 95.4 85.8 159.3

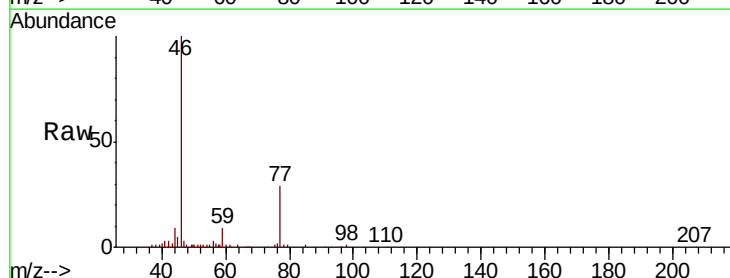


Abundance Ion 84.05 (83.75 to 84.75): VX0
Ion 86.00 (85.70 to 86.70): VX0
Ion 49.10 (48.80 to 49.80): VX0

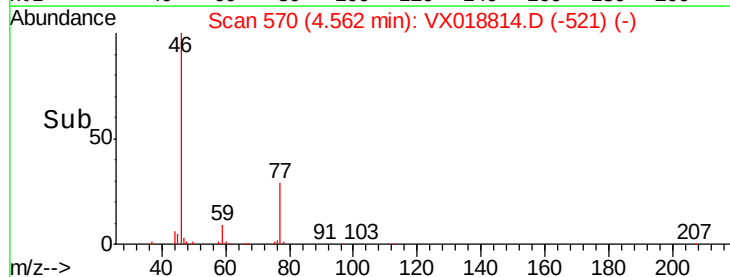
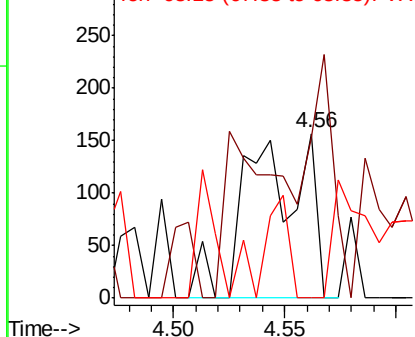


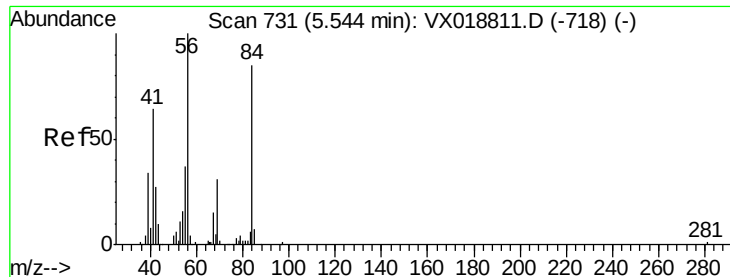
#22
cis-1,2-Dichloroethene
Concen: 0.040 ug/L
RT: 4.56 min Scan# 570
Delta R.T. -0.00 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Tgt Ion: 96 Resp: 286
Ion Ratio Lower Upper
96 100
61 97.5 86.2 160.0
68 0.0 0.3 0.7#



Abundance Ion 96.00 (95.70 to 96.70): VX0
Ion 61.05 (60.75 to 61.75): VX0
Ion 68.15 (67.85 to 68.85): VX0

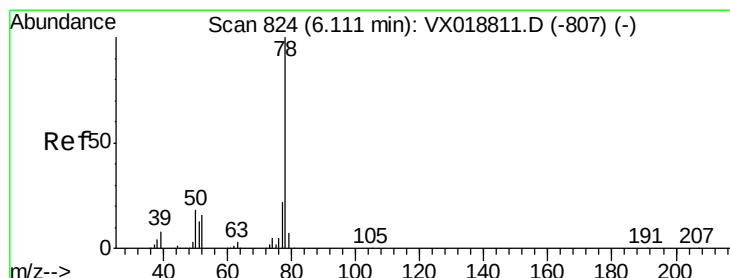
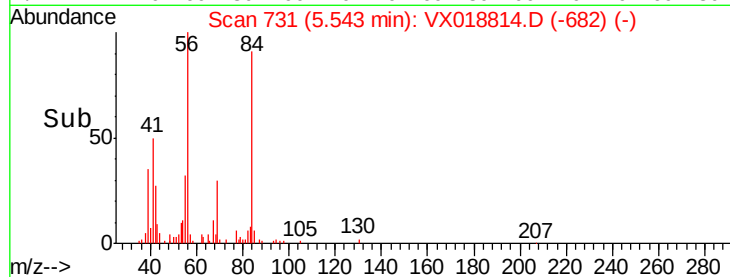
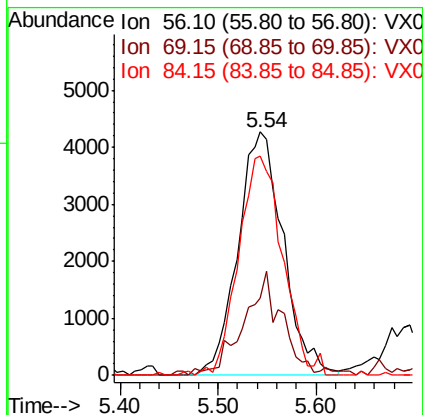
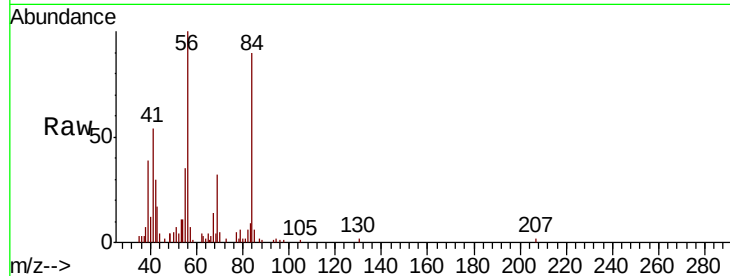




#30
Cyclohexane
Concen: 1.255 ug/L
RT: 5.54 min Scan# 731
Delta R.T. -0.00 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

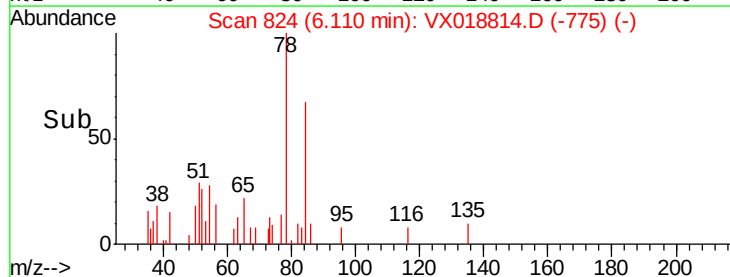
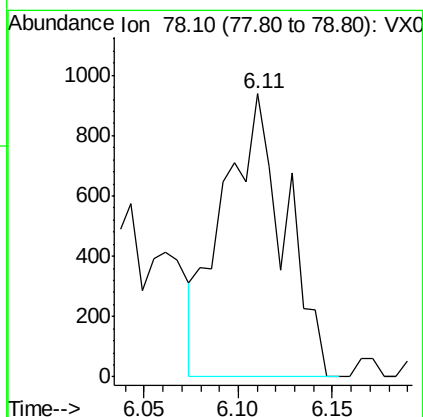
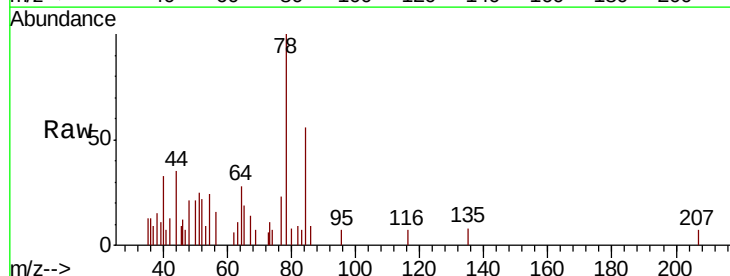
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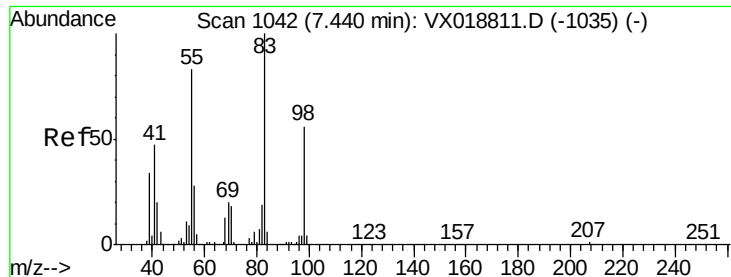
Tot Ion: 56 Resp: 13755
Ion Ratio Lower Upper
56 100
69 35.8 26.0 39.0
84 88.2 73.8 110.6



#33
Benzene
Concen: 0.076 ug/L
RT: 6.11 min Scan# 824
Delta R.T. -0.00 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Tgt Ion: 78 Resp: 2135

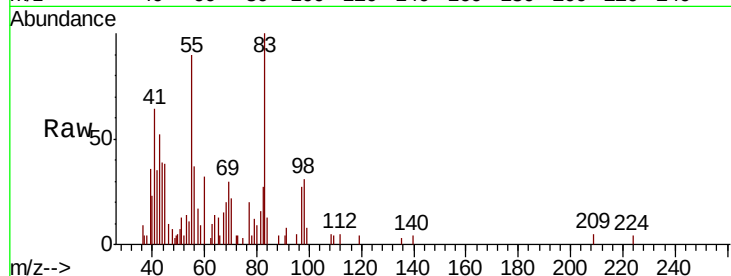




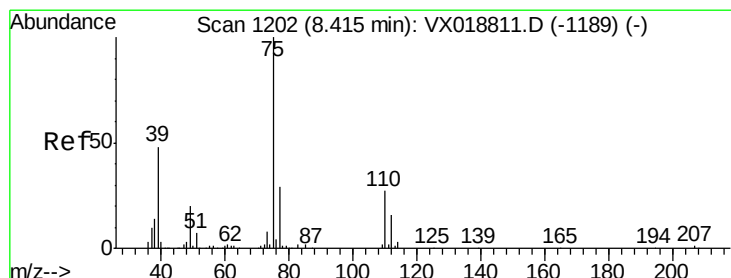
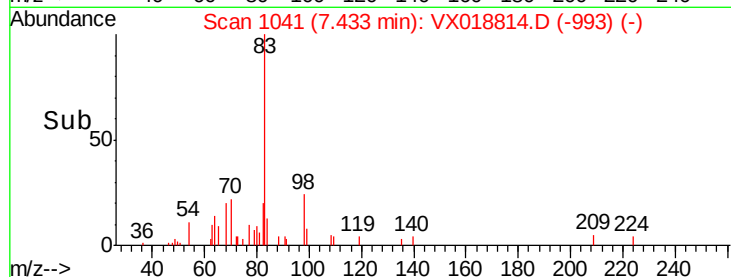
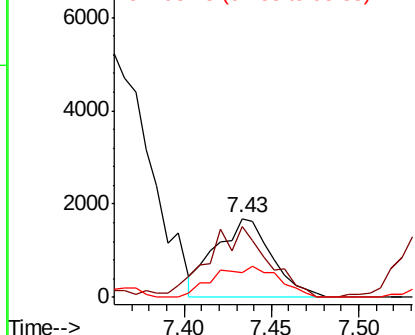
#35
Methylvlcyclohexane
Concen: 0.324 ug/L
RT: 7.43 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Instrument :
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ClientSampleId :
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Tot Ion: 83 Resp: 3794
Ion Ratio Lower Upper
83 100
55 95.4 60.3 90.5#
98 44.8 39.4 59.0

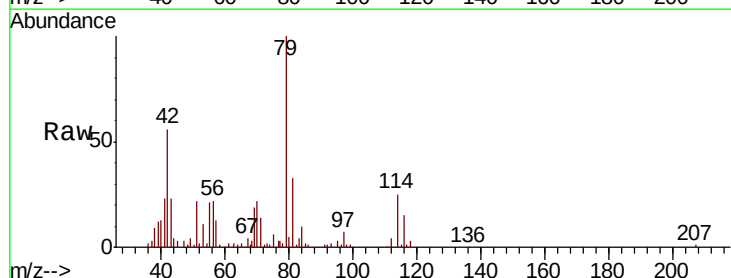


Abundance Ion 83.15 (82.85 to 83.85): VX0
Ion 55.10 (54.80 to 55.80): VX0
Ion 98.15 (97.85 to 98.85): VX0

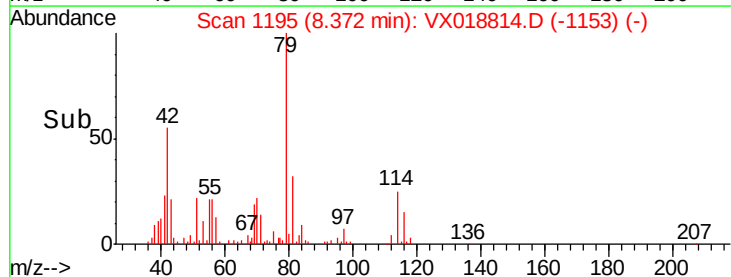
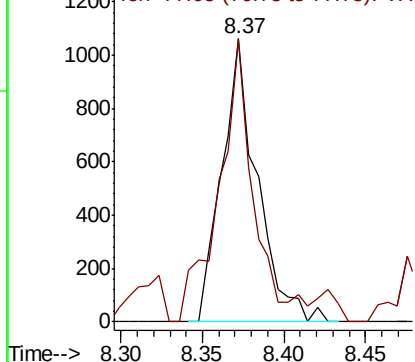


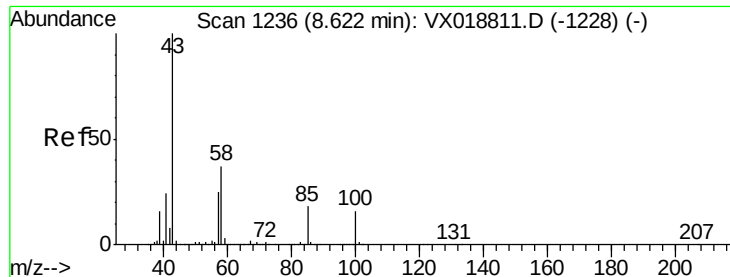
#39
cis-1,3-Dichloropropene
Concen: 0.143 ug/L
RT: 8.37 min Scan# 1195
Delta R.T. -0.04 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Tgt Ion: 75 Resp: 1605
Ion Ratio Lower Upper
75 100
77 99.6 22.5 41.7#



Abundance Ion 75.05 (74.75 to 75.75): VX0
Ion 77.05 (76.75 to 77.75): VX0

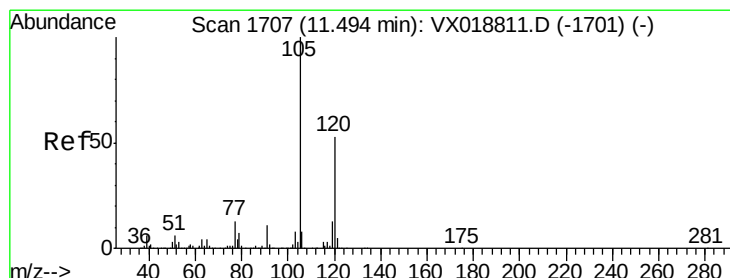
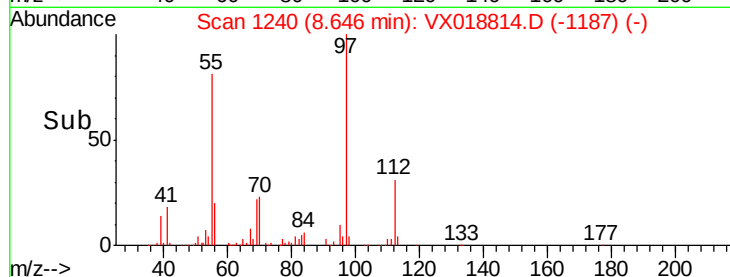
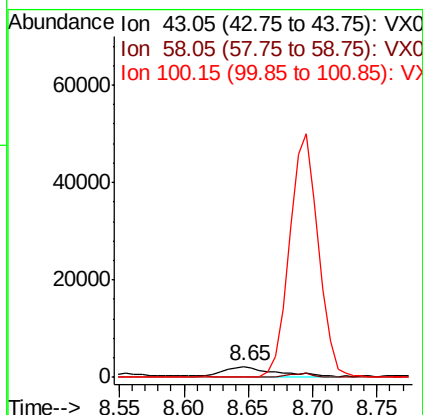
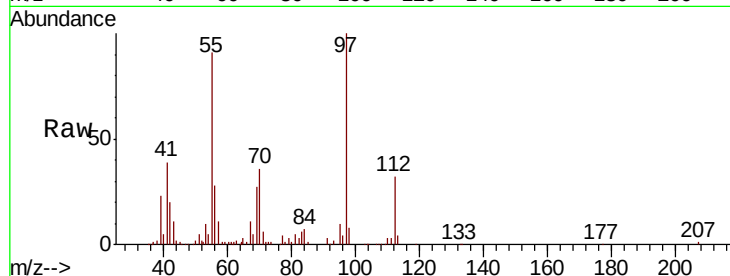




#40
 4-Methyl-2-pentanone
 Concen: 1.406 ug/L
 RT: 8.65 min Scan# 1240
 Delta R.T. 0.02 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

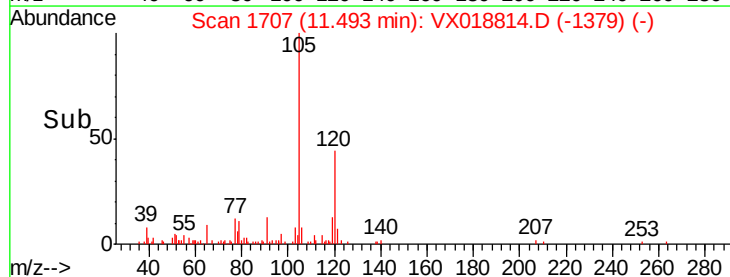
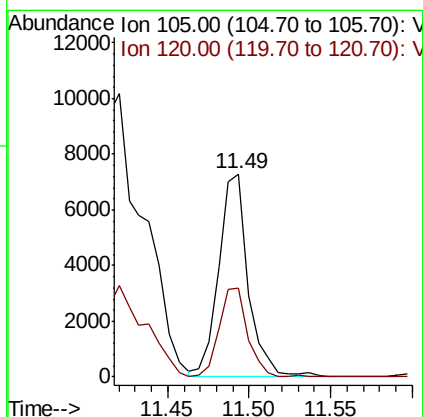
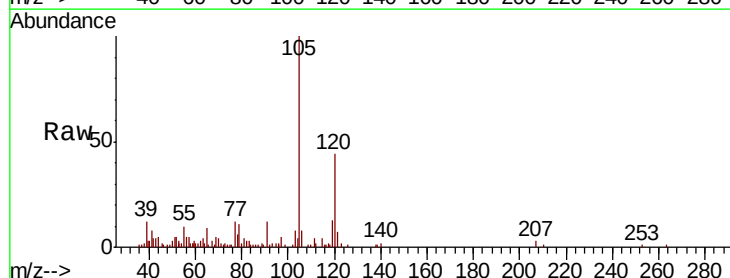
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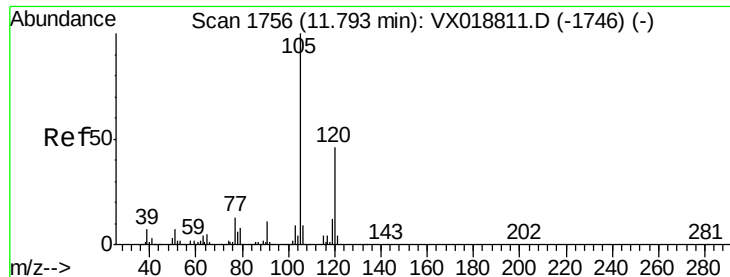
Tot Ion: 43 Resp: 5707
 Ion Ratio Lower Upper
 43 100
 58 5.9 30.8 46.2#
 100 0.0 13.2 19.8#



#43
 1,3,5-Trimethylbenzene
 Concen: 0.319 ug/L
 RT: 11.49 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

Tgt Ion: 105 Resp: 9255
 Ion Ratio Lower Upper
 105 100
 120 41.8 37.7 56.5





#44

1,2,4-Trimethylbenzene

Concen: 0.969 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX018814.D

Acq: 07 Oct 2020 16:24

Instrument :

MSVOA_X

ClientSampled :

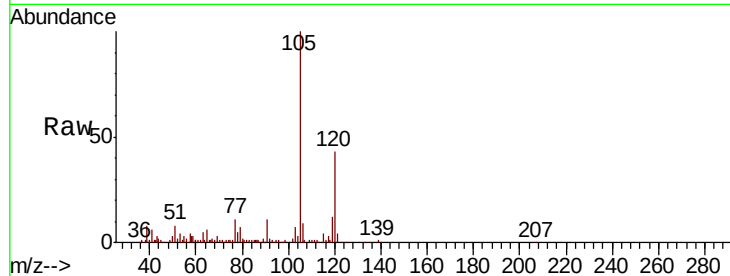
BG3R0DL

Tot Ion:105 Resp: 28480

Ion Ratio Lower Upper

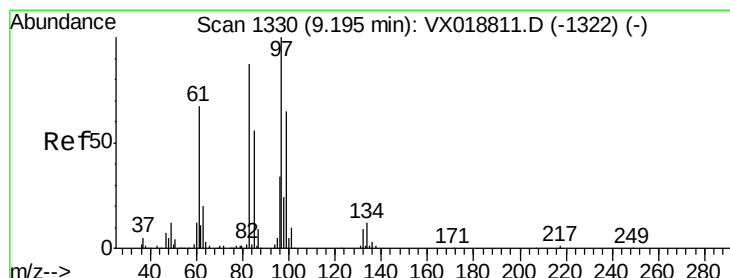
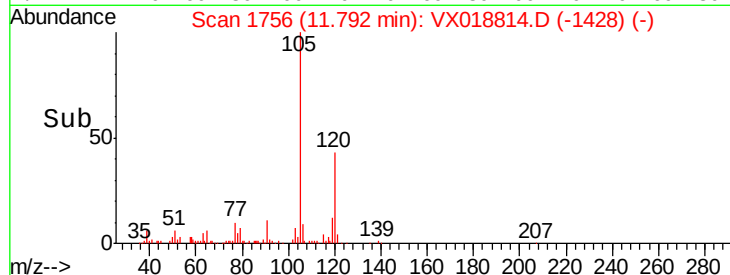
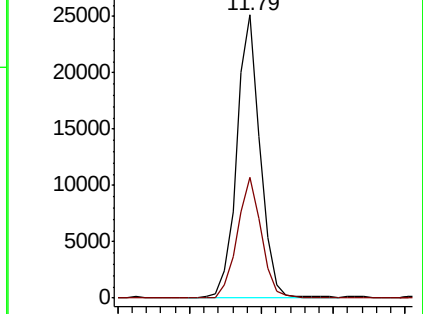
105 100

120 43.9 35.1 52.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#47

1,1,2-Trichloroethane

Concen: 5.536 ug/L

RT: 9.14 min Scan# 1321

Delta R.T. -0.06 min

Lab File: VX018814.D

Acq: 07 Oct 2020 16:24

Tgt Ion: 97 Resp: 29282

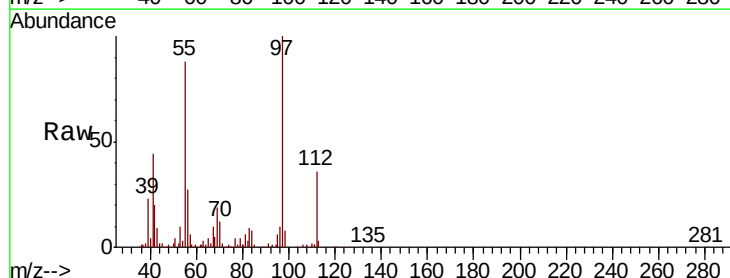
Ion Ratio Lower Upper

97 100

99 0.0 41.1 76.3#

83 9.0 57.5 106.7#

85 0.7 36.9 68.5#

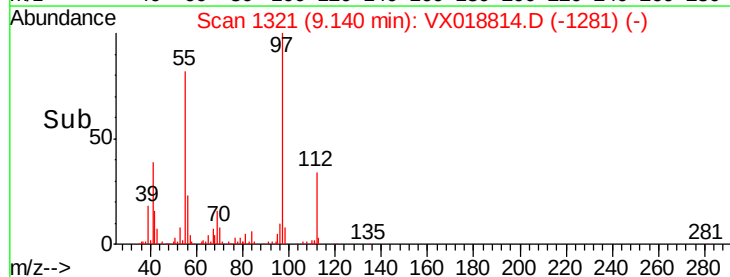
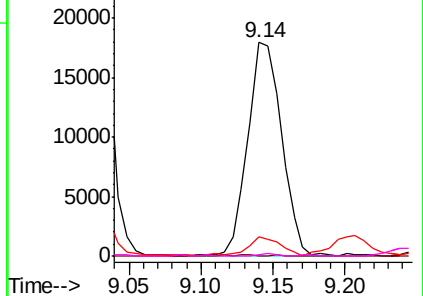


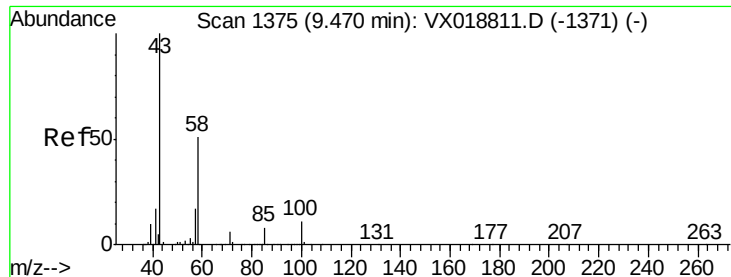
Abundance Ion 96.95 (96.65 to 97.65): VX0

Ion 99.05 (98.75 to 99.75): VX0

Ion 82.95 (82.65 to 83.65): VX0

Ion 85.00 (84.70 to 85.70): VX0

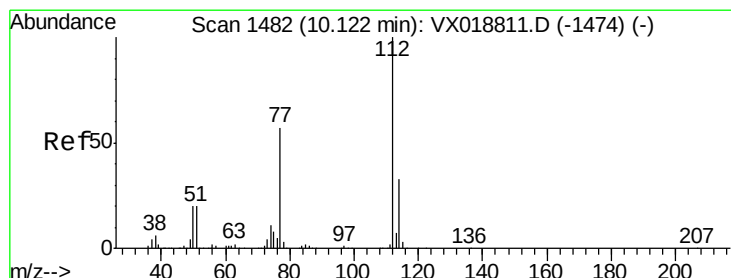
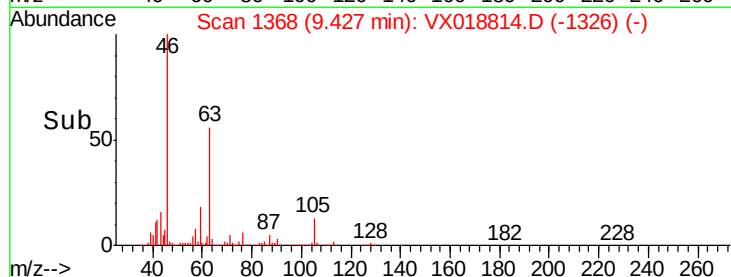
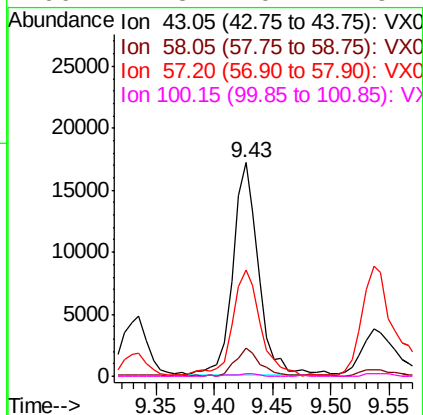
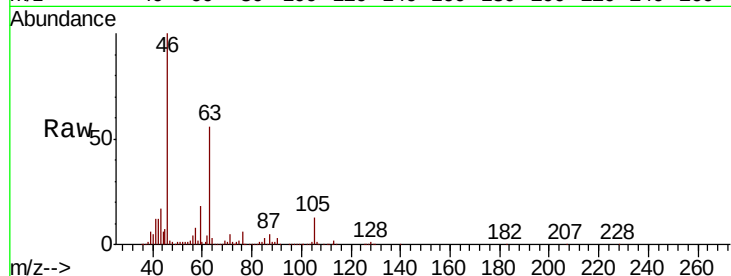




#50
2-Hexanone
Concen: 8.973 ug/L
RT: 9.43 min Scan# 1368
Delta R.T. -0.04 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

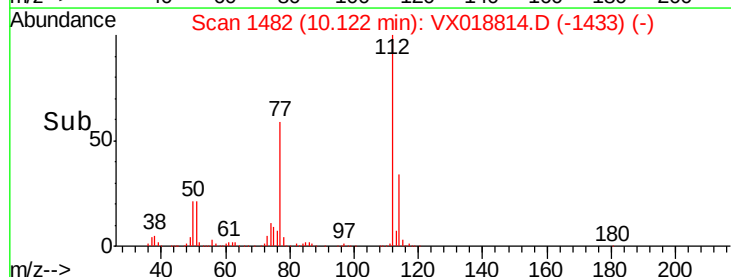
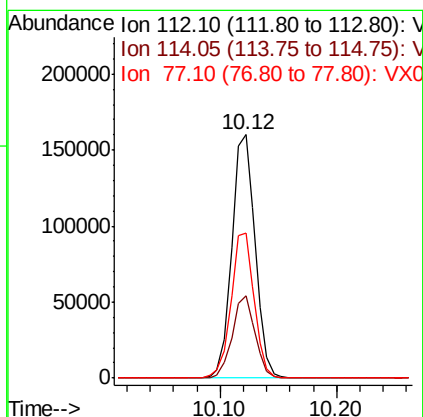
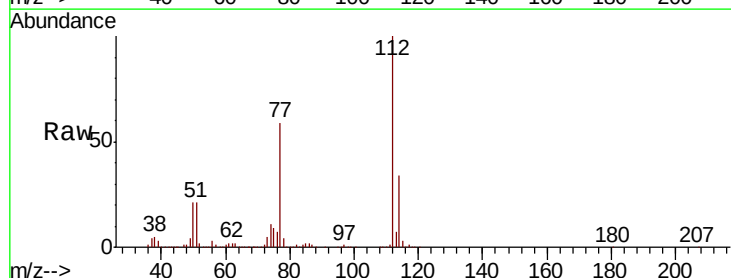
Instrument :
MSVOA_X
ClientSampled :
BG3R0DL

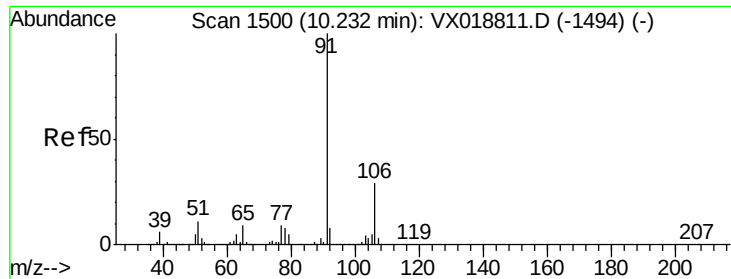
Tot Ion:	43	Resp:	26460
Ion	Ratio	Lower	Upper
43	100		
58	13.1	41.0	61.4#
57	55.1	15.9	23.9#
100	1.3	10.1	15.1#



#53
Chlorobenzene
Concen: 10.643 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Tgt Ion:	112	Resp:	222857
Ion	Ratio	Lower	Upper
112	100		
114	33.8	21.3	39.5
77	59.4	42.4	63.6





#54

Ethylbenzene

Concen: 0.122 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX018814.D

Acq: 07 Oct 2020 16:24

Instrument :

MSVOA_X

ClientSampled :

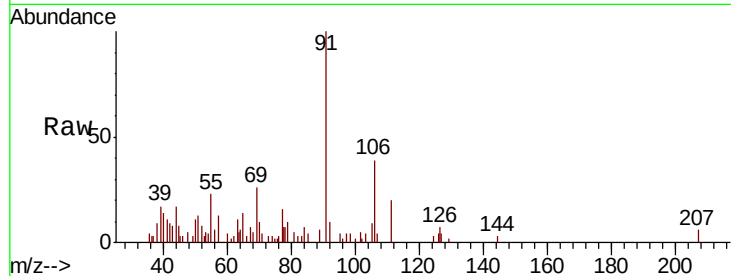
BG3R0DL

Tot Ion: 91 Resp: 4181

Ion Ratio Lower Upper

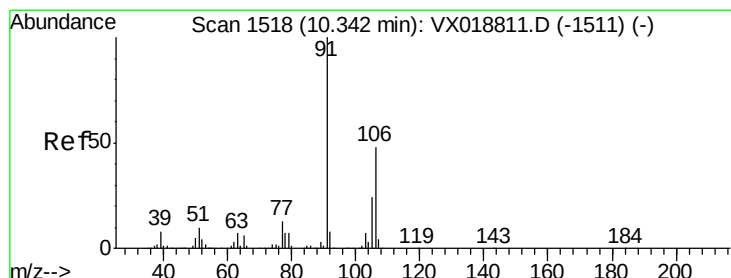
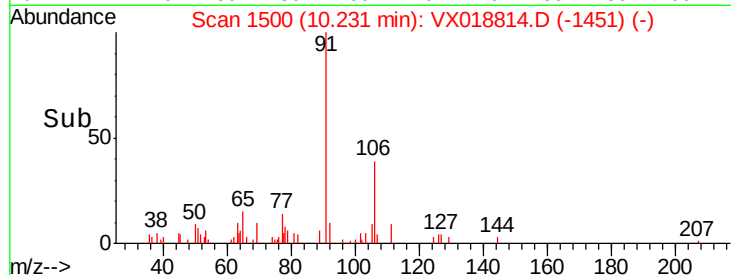
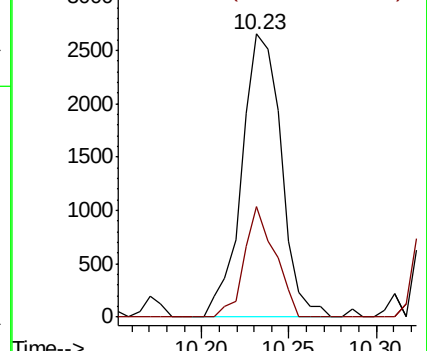
91 100

106 39.1 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V



#55

m,p-xylene

Concen: 0.310 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018814.D

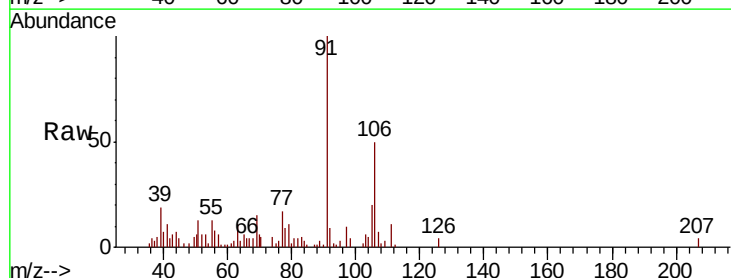
Acq: 07 Oct 2020 16:24

Tgt Ion: 106 Resp: 4147

Ion Ratio Lower Upper

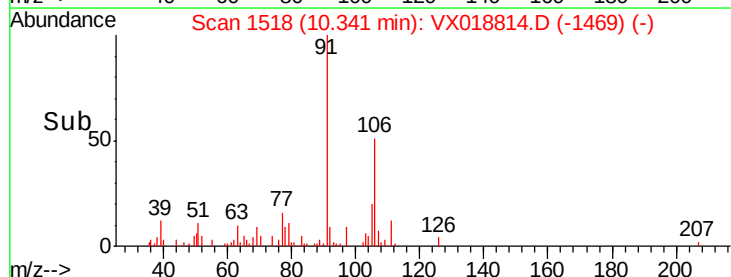
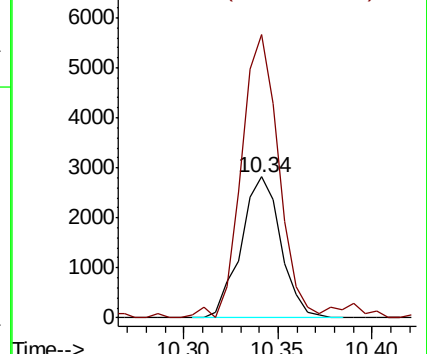
106 100

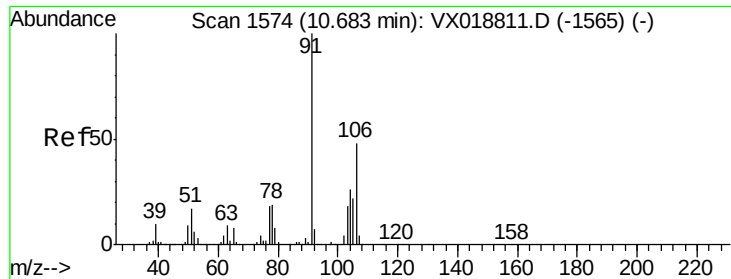
91 200.4 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

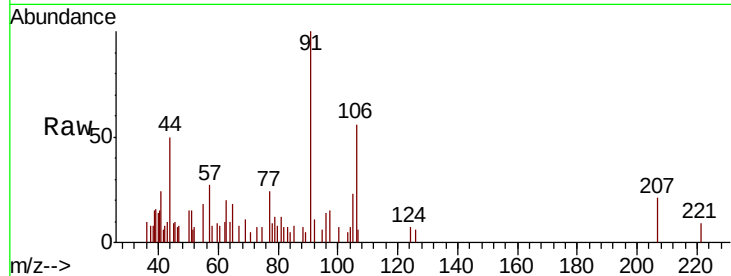




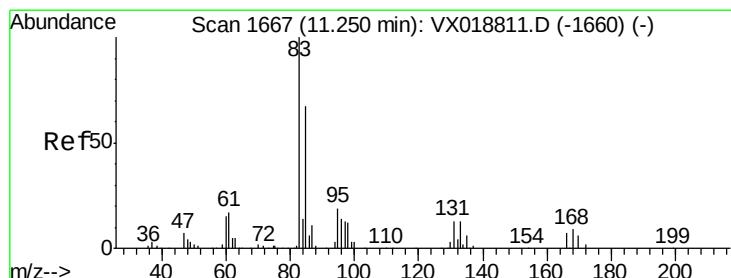
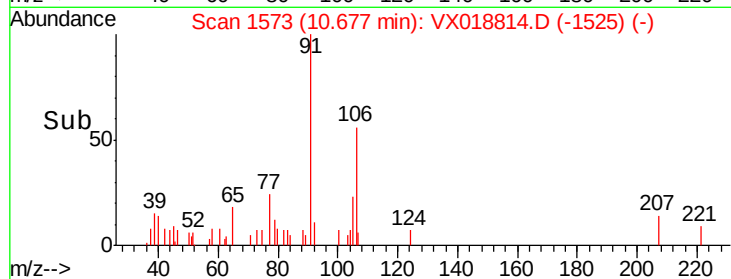
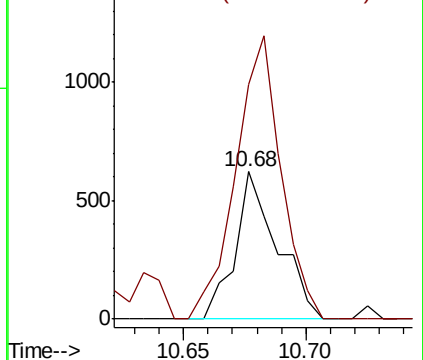
#56
o-xylene
Concen: 0.060 ug/L
RT: 10.68 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Instrument :
MSVOA_X
ClientSampled :
BG3R0DL

Tot Ion:106 Resp: 744
Ion Ratio Lower Upper
106 100
91 159.1 153.4 284.8

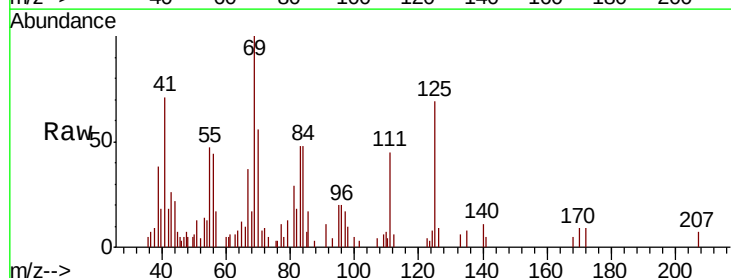


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VX0

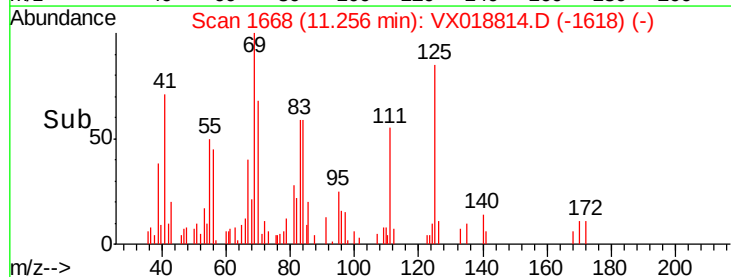
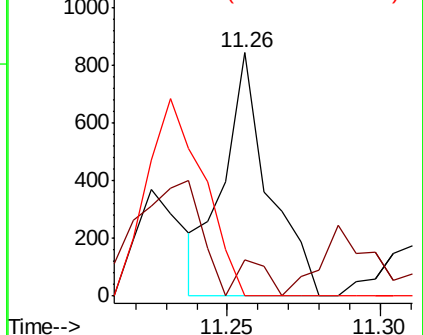


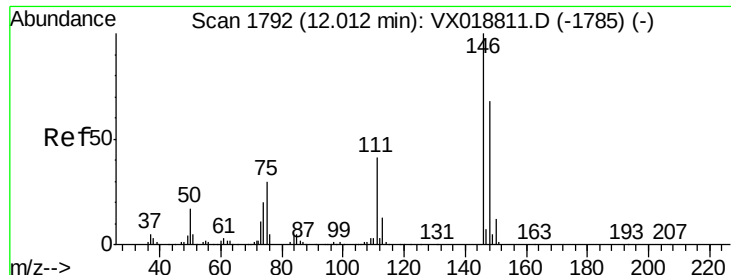
#60
1,1,2,2-Tetrachloroethane
Concen: 0.146 ug/L
RT: 11.26 min Scan# 1668
Delta R.T. 0.01 min
Lab File: VX018814.D
Acq: 07 Oct 2020 16:24

Tgt Ion: 83 Resp: 856
Ion Ratio Lower Upper
83 100
85 49.9 46.5 86.5
131 0.0 9.6 14.4#



Abundance Ion 82.95 (82.65 to 83.65): VX0
Ion 85.00 (84.70 to 85.70): VX0
Ion 130.95 (130.65 to 131.65): V

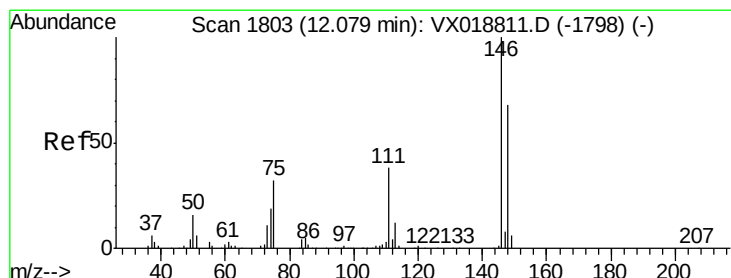
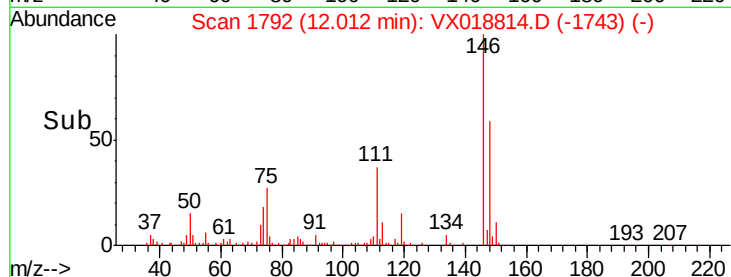
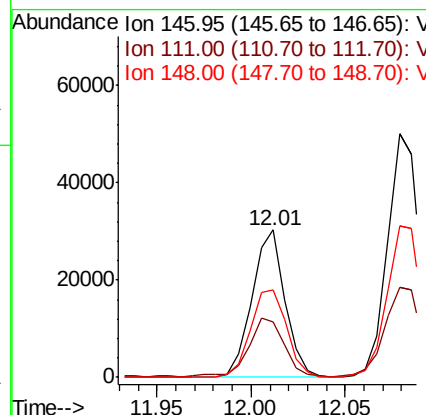
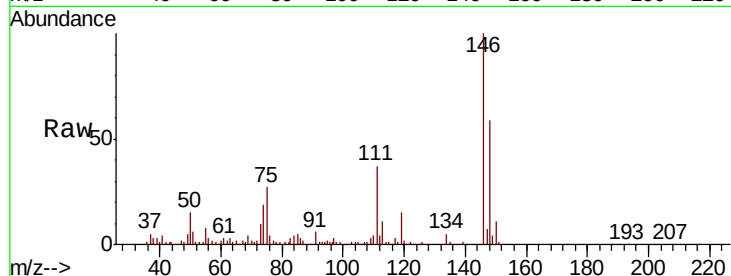




#63
 1,3-Dichlorobenzene
 Concen: 2.264 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

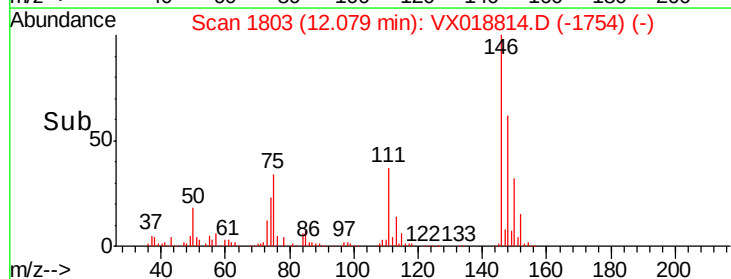
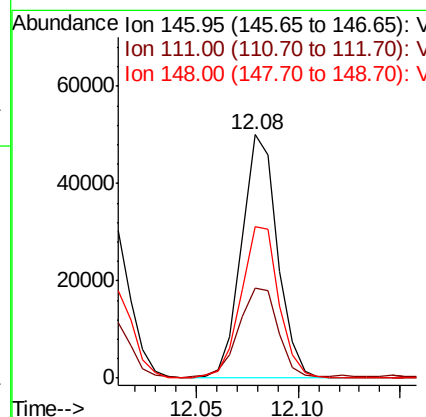
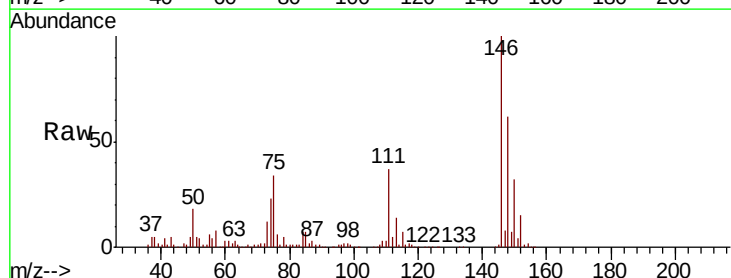
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3R0DL

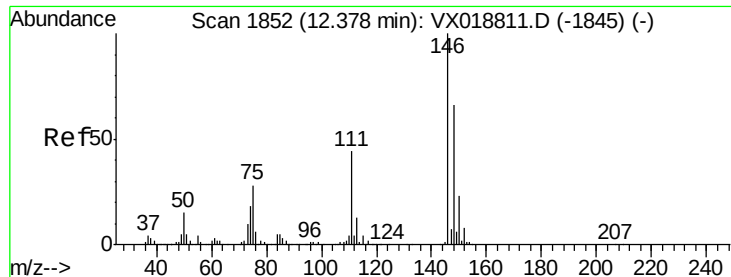
Tot Ion:146 Resp: 36728
 Ion Ratio Lower Upper
 146 100
 111 37.4 28.4 52.8
 148 59.0 45.9 85.3



#64
 1,4-Dichlorobenzene
 Concen: 3.773 ug/L
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

Tgt Ion:146 Resp: 61050
 Ion Ratio Lower Upper
 146 100
 111 36.9 28.6 53.2
 148 62.3 44.2 82.0

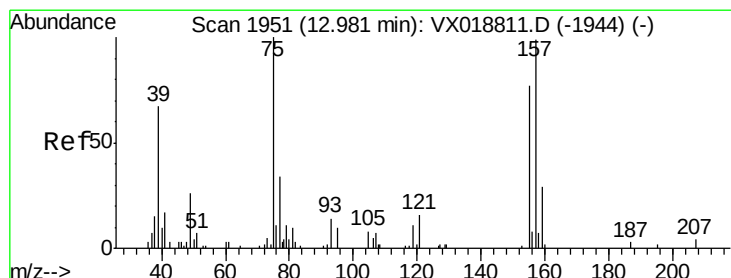
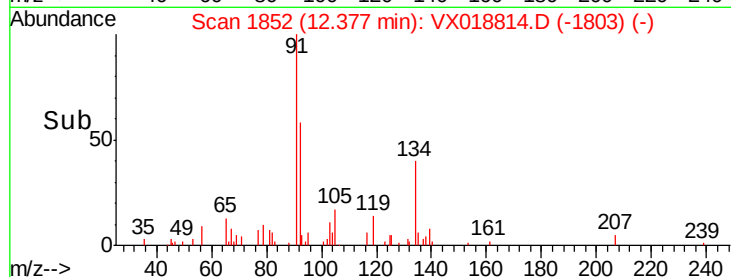
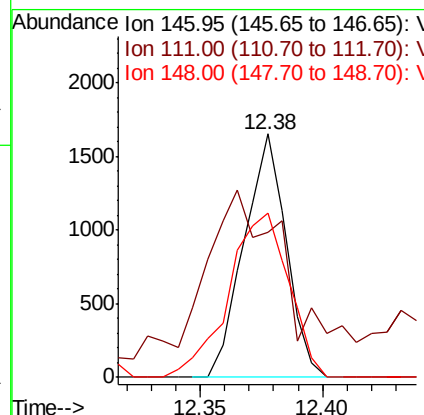
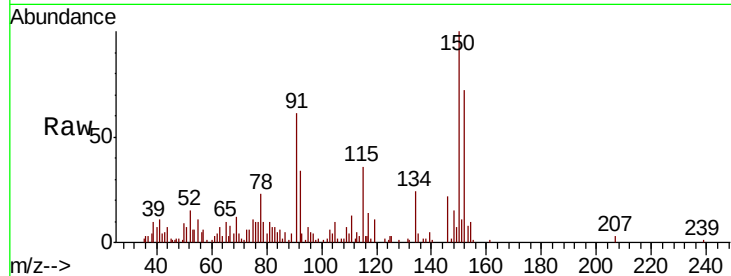




#66
 1,2-Dichlorobenzene
 Concen: 0.131 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

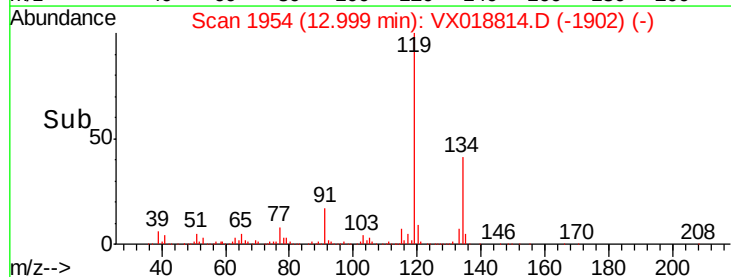
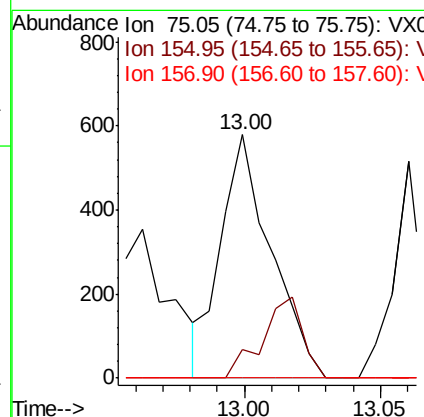
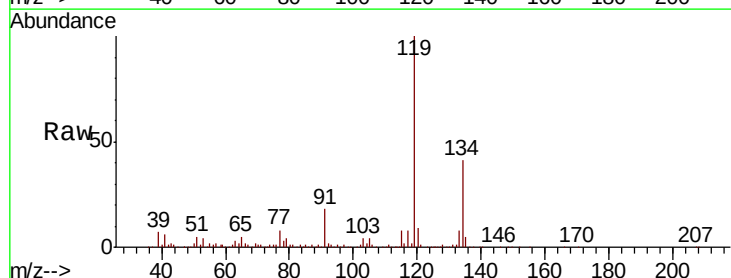
Instrument :
 MSVOA_X
 ClientSampled :
 BG3R0DL

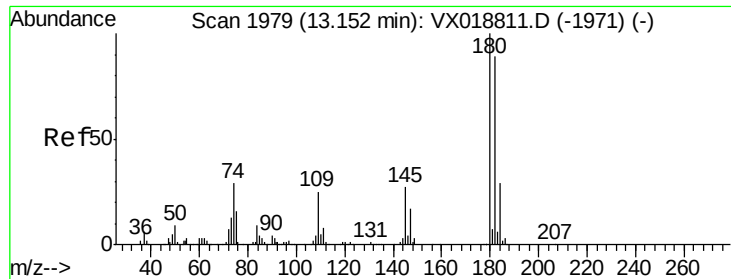
Tot Ion:146 Resp: 1984
 Ion Ratio Lower Upper
 146 100
 111 59.8 31.7 47.5#
 148 67.3 49.0 73.6



#67
 1,2-Dibromo-3-chloropropane
 Concen: 0.572 ug/L
 RT: 13.00 min Scan# 1954
 Delta R.T. 0.02 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

Tgt Ion: 75 Resp: 739
 Ion Ratio Lower Upper
 75 100
 155 11.7 61.1 91.7#
 157 0.0 74.2 111.2#

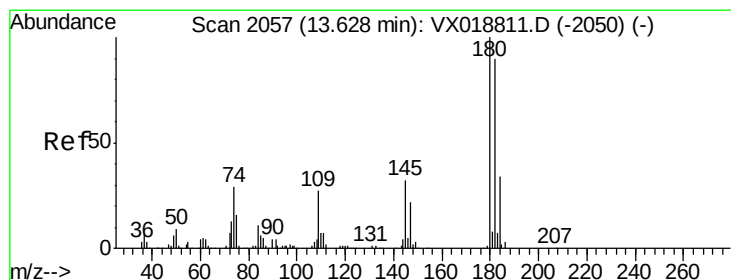
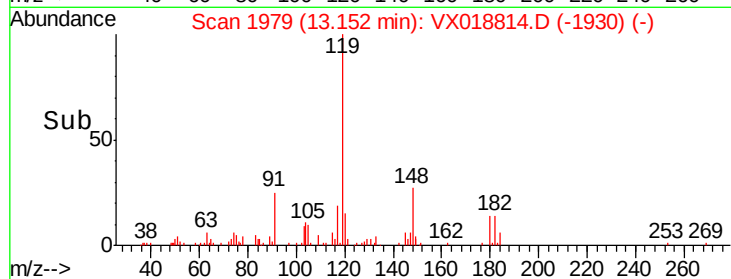
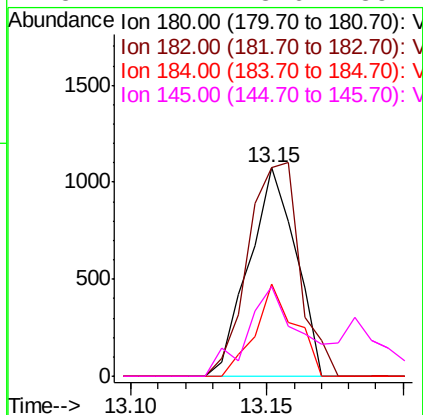
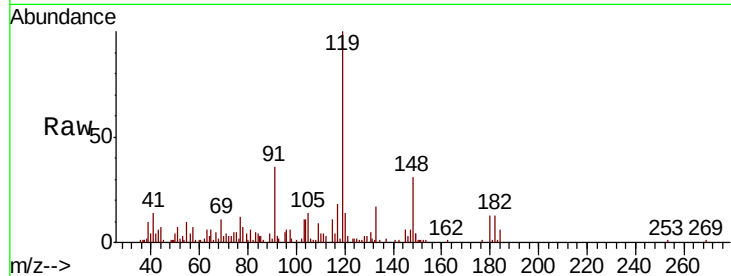




#68
 1,3,5-Trichlorobenzene
 Concen: 0.102 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

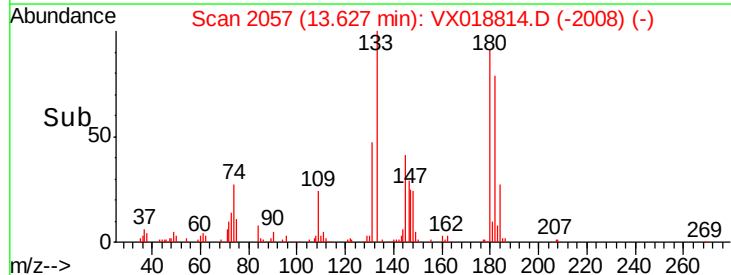
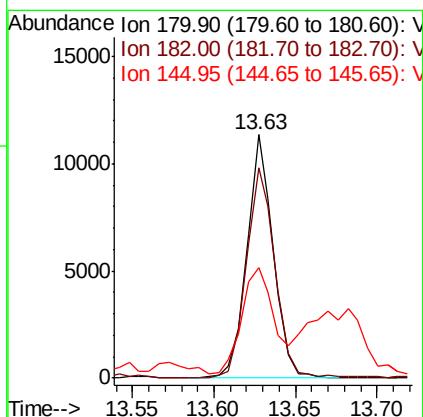
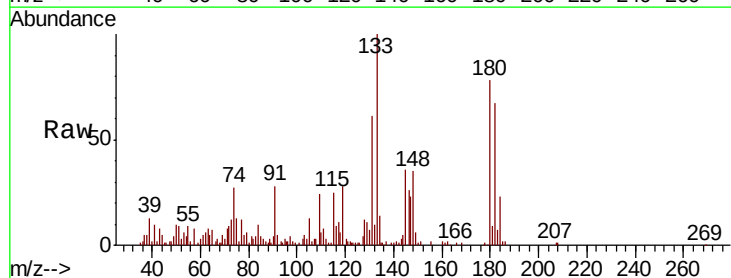
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3R0DL

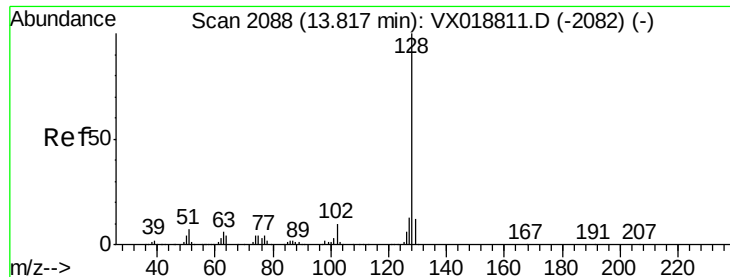
Tot Ion	Ratio	Lower	Upper
180	100		
182	113.5	74.1	111.1#
184	37.6	23.4	35.2#
145	47.7	23.6	35.4#



#69
 1,2,4-trichlorobenzene
 Concen: 1.230 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX018814.D
 Acq: 07 Oct 2020 16:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	80.2	120.4
145	54.4	25.2	37.8#





#70

Naphthalene

Concen: 0.413 ug/L

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX018814.D

Acq: 07 Oct 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

BG3R0DL

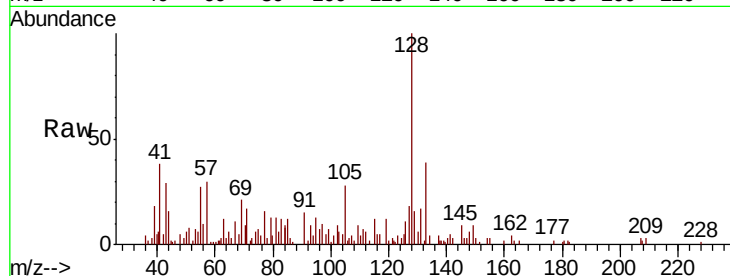
Tot Ion:128 Resp: 7002

Ion Ratio Lower Upper

128 100

129 13.1 9.0 13.4

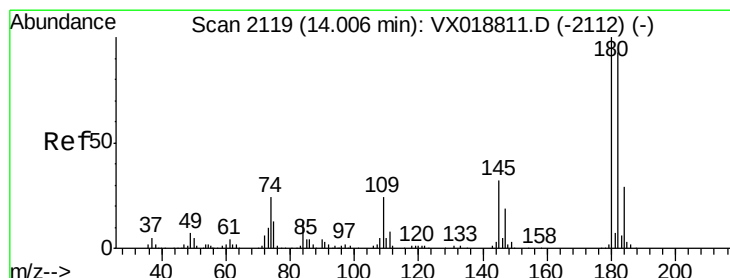
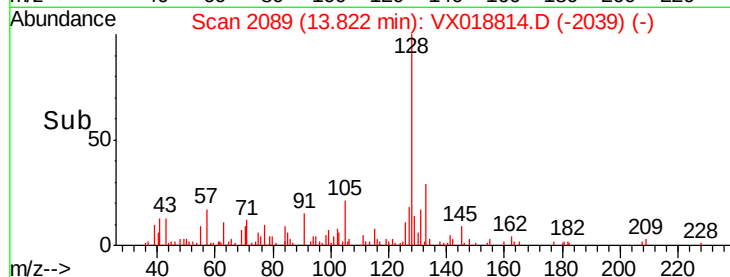
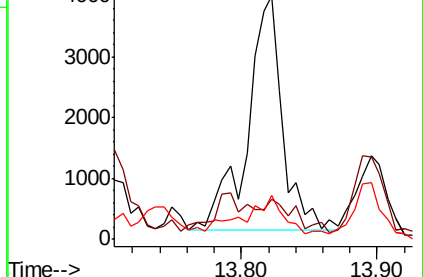
127 18.8 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#71

1,2,3-Trichlorobenzene

Concen: 0.214 ug/L

RT: 14.00 min Scan# 2118

Delta R.T. -0.01 min

Lab File: VX018814.D

Acq: 07 Oct 2020 16:24

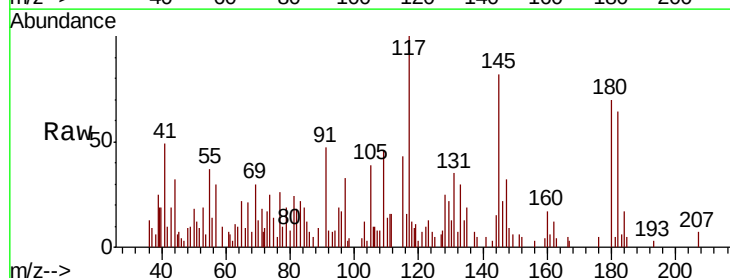
Tgt Ion:180 Resp: 1995

Ion Ratio Lower Upper

180 100

182 102.7 73.6 110.4

145 170.6 26.6 40.0#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

