

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010821\
 Data File : VX020539.D
 Acq On : 08 Jan 2021 15:12
 Operator : JC/MD
 Sample : M1050-06
 Misc : 5.0µ/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 04:43:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM010721WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 09 04:41:43 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	373151	50.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	333397	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.07	152	175994	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	116224	38.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.54%
7) Chloroethane-d5	1.68	69	39433	16.83	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	33.66%#
11) 1,1-Dichloroethene-d2	2.31	63	167332	29.88	ug/L	-0.03
Spiked Amount	50.000	Range	60 - 125	Recovery	=	59.76%#
21) 2-Butanone-d5	4.56	46	170656	92.90	ug/L	0.04
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.90%
24) Chloroform-d	5.14	84	228312	44.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.52%
26) 1,2-Dichloroethane-d4	6.03	65	151595	44.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.76%
32) Benzene-d6	6.04	84	482453	48.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.22%
36) 1,2-Dichloropropane-d6	7.37	67	150117	48.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.82%
41) Toluene-d8	8.70	98	408789	44.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.92%
43) trans-1,3-Dichloropropene-	8.99	79	73119	48.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.94%
47) 2-Hexanone-d5	9.45	63	134526	98.21	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.21%
56) 1,1,2,2-Tetrachloroethane-	11.24	84	180108	41.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.62%
66) 1,2-Dichlorobenzene-d4	12.36	152	156337	45.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.64%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.45	43	262189	174.143	ug/L	99
15) Methyl Acetate	2.76	43	4906	1.637	ug/L	97
16) Methylene chloride	2.83	84	2246	0.707	ug/L	91
17) trans-1,2-Dichloroethene	3.13	96	316837	110.718	ug/L	96
20) cis-1,2-Dichloroethene	4.56	96	2577	0.823	ug/L	94
27) 1,2-Dichloroethane	6.10	62	11801	2.832	ug/L #	73
30) 1,1,1-Trichloroethane	5.45	97	778924	182.804	ug/L	99
33) Benzene	6.10	78	1351047	122.610	ug/L	100
34) Trichloroethene	7.18	95	556613	198.345	ug/L	99
37) 1,2-Dichloropropane	7.49	63	289072	103.415	ug/L	100
38) Bromodichloromethane	7.88	83	264433	73.671	ug/L	99
39) cis-1,3-Dichloropropene	8.37	75	3970	0.944	ug/L #	47
42) Toluene	8.76	91	1652080	143.110	ug/L	97
45) 1,1,2-Trichloroethane	9.20	97	204633	73.969	ug/L	99
46) Tetrachloroethene	9.32	164	215037	98.858	ug/L	96
48) 2-Hexanone	9.49	43	371752	128.101	ug/L	98
50) 1,2-Dibromoethane	9.65	107	178292	62.214	ug/L	99

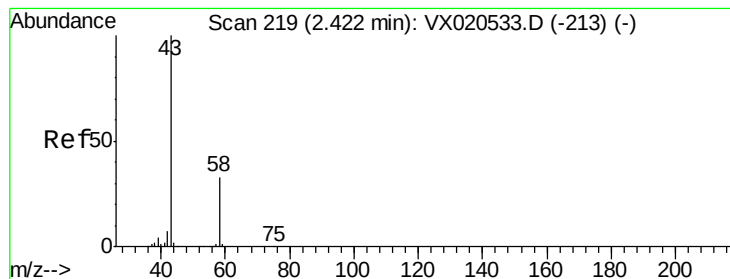
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010821\
 Data File : VX020539.D
 Acq On : 08 Jan 2021 15:12
 Operator : JC/MD
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM010721WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 09 04:41:43 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	10.12	112	748490	102.409	uq/L	98
52) Ethylbenzene	10.24	91	1187039	96.165	uq/L	98
53) m,p-Xylene	10.35	106	588695	127.648	uq/L	100
54) o-Xylene	10.68	106	121643	27.179	uq/L	94
55) Styrene	10.70	104	756491	99.841	uq/L	96
60) Isopropylbenzene	11.00	105	1512545	121.889	uq/L	99
64) 1,3-Dichlorobenzene	12.01	146	403132	69.636	uq/L	96
65) 1,4-Dichlorobenzene	12.09	146	318336	54.423	uq/L	98
67) 1,2-Dichlorobenzene	12.38	146	198107	34.322	uq/L	99
68) 1,2-Dibromo-3-chloropropan	13.15	75	54016	55.625	uq/L #	4
69) 1,3,5-Trichlorobenzene	13.15	180	354447	89.186	uq/L	100
70) 1,2,4-trichlorobenzene	13.63	180	371384	108.532	uq/L	98
72) 1,2,3-Trichlorobenzene	14.01	180	276352	78.500	uq/L	99

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



#13

Acetone

Concen: 174.143 ug/L

RT: 2.45 min Scan# 224

Delta R.T. 0.03 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_X

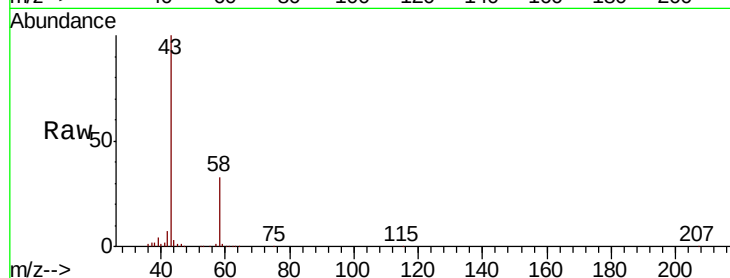
ClientSampleId :

Tot Ion: 43 Resp: 262189

Ion Ratio Lower Upper

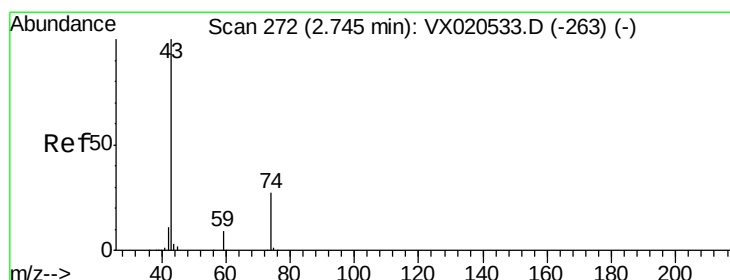
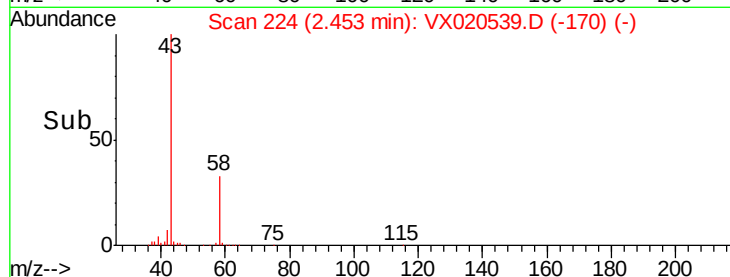
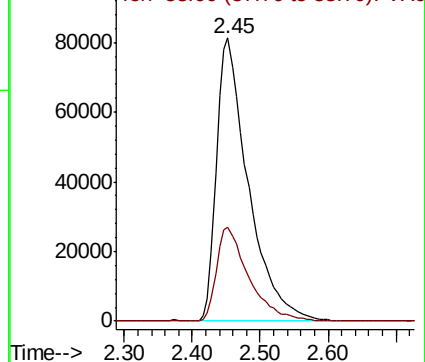
43 100

58 33.8 0.0 68.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#15

Methyl Acetate

Concen: 1.637 ug/L

RT: 2.76 min Scan# 275

Delta R.T. 0.02 min

Lab File: VX020539.D

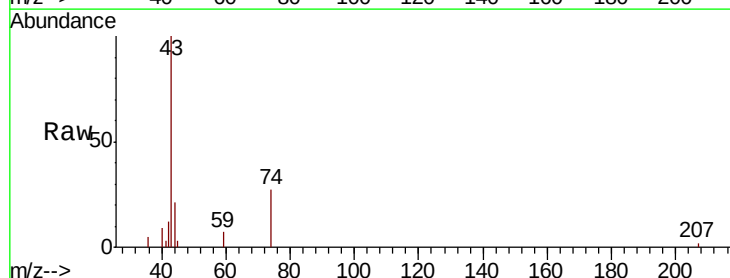
Acq: 08 Jan 2021 15:12

Tgt Ion: 43 Resp: 4906

Ion Ratio Lower Upper

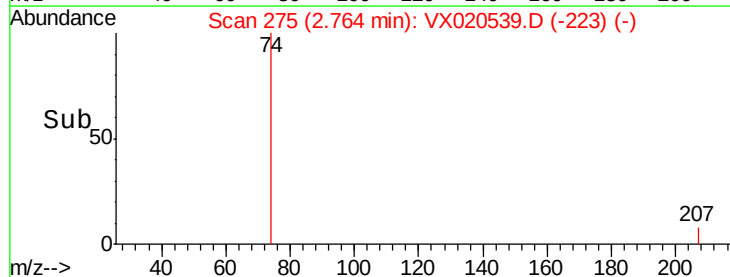
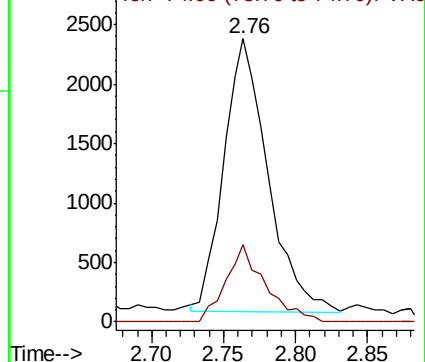
43 100

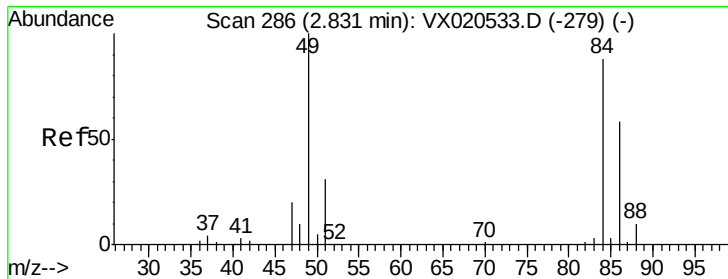
74 25.5 21.7 32.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

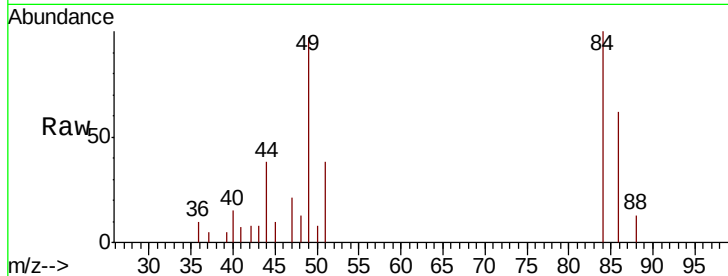




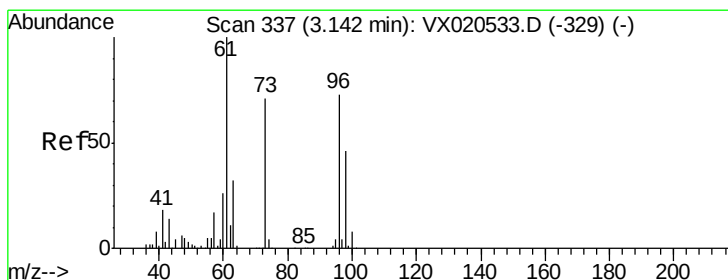
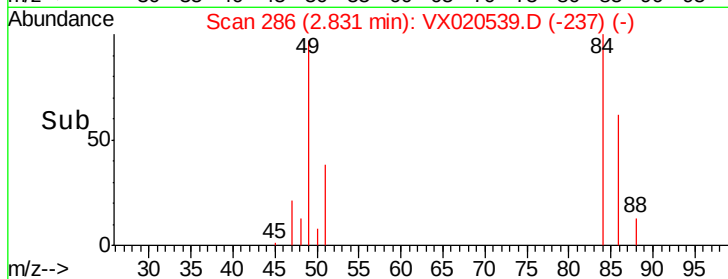
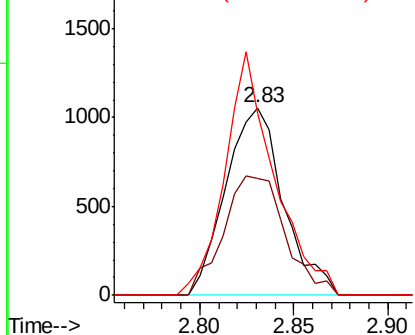
#16
Methylene chloride
Concen: 0.707 ug/L
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 2246
Ion Ratio Lower Upper
84 100
86 62.1 44.2 82.0
49 97.3 77.8 144.6

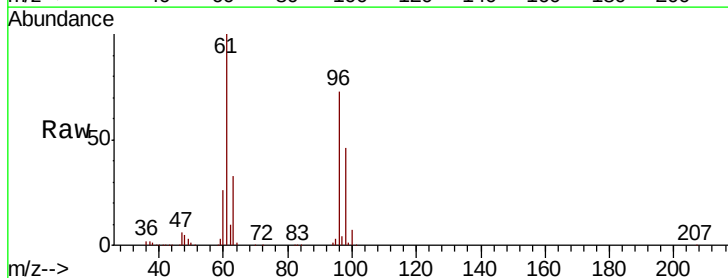


Abundance Ion 84.00 (83.70 to 84.70): VX0
Ion 86.00 (85.70 to 86.70): VX0
Ion 49.00 (48.70 to 49.70): VX0

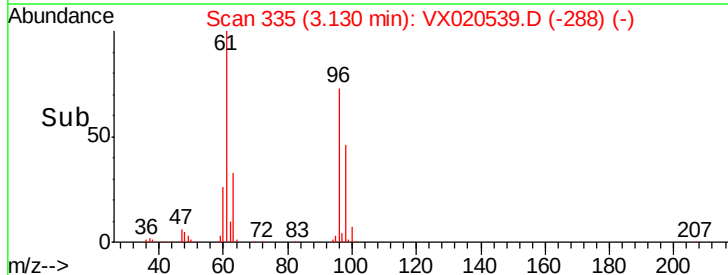
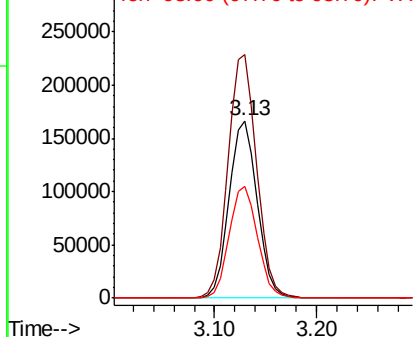


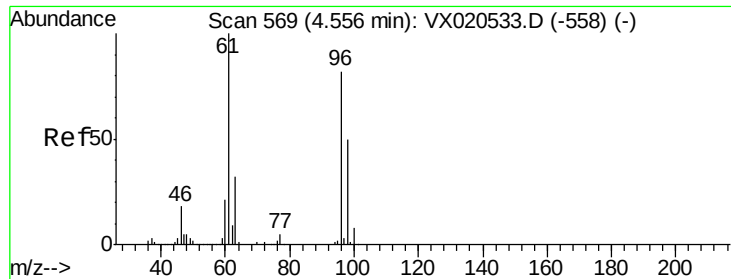
#17
trans-1,2-Dichloroethene
Concen: 110.718 ug/L
RT: 3.13 min Scan# 335
Delta R.T. -0.01 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

Tgt Ion: 96 Resp: 316837
Ion Ratio Lower Upper
96 100
61 137.5 92.3 171.3
98 63.3 46.3 85.9



Abundance Ion 96.00 (95.70 to 96.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

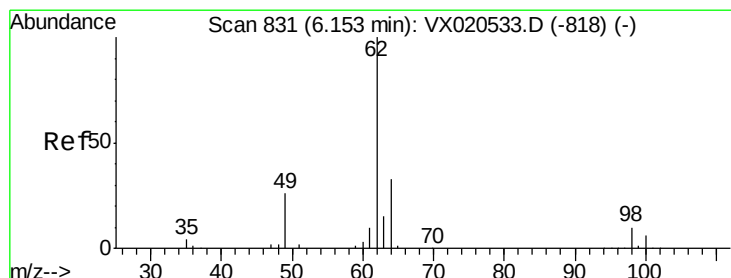
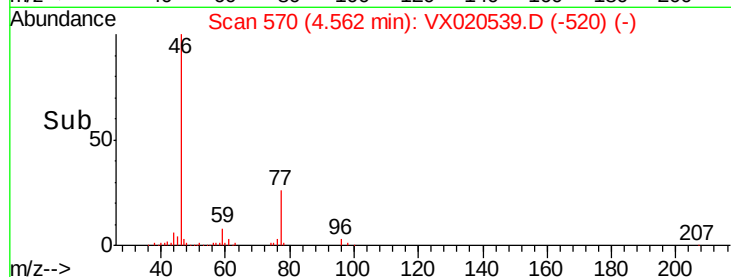
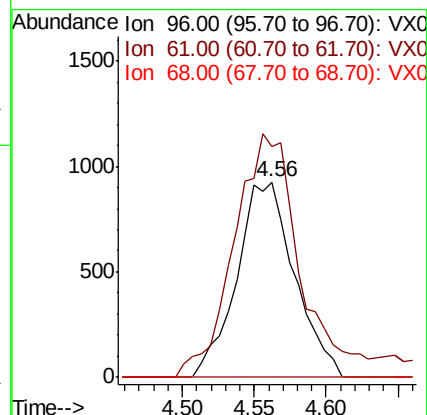
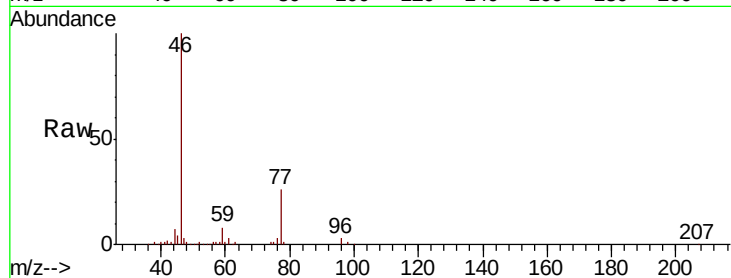




#20
 cis-1,2-Dichloroethene
 Concen: 0.823 ug/L
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

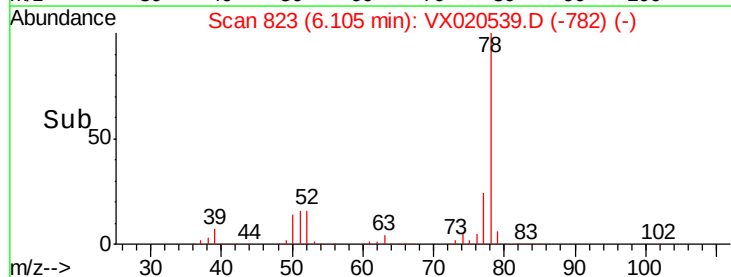
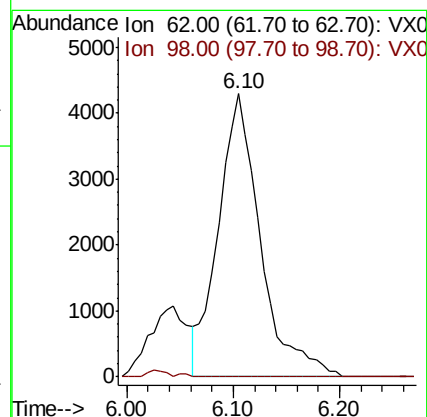
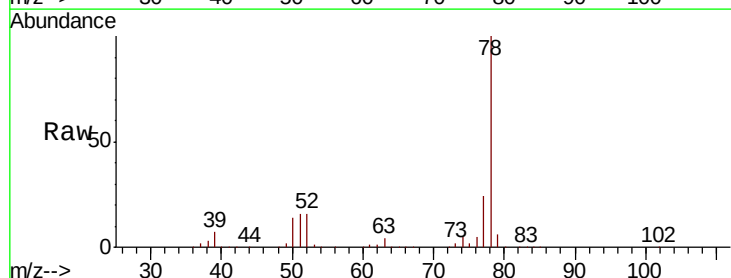
Instrument :
 MSVOA_X
 ClientSampleId :

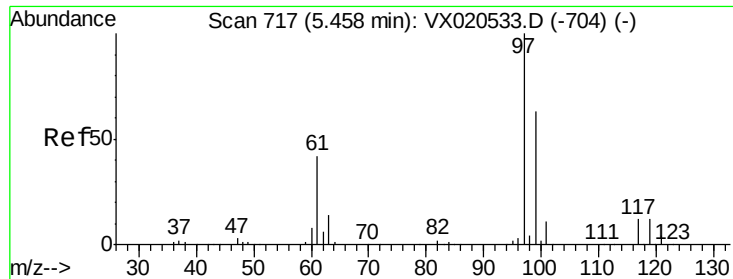
Tot Ion: 96 Resp: 2577
 Ion Ratio Lower Upper
 96 100
 61 118.1 87.8 163.0
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 2.832 ug/L
 RT: 6.10 min Scan# 823
 Delta R.T. -0.05 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

Tgt Ion: 62 Resp: 11801
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.9 11.9#

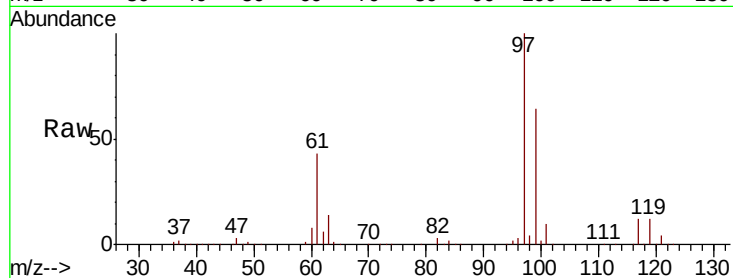




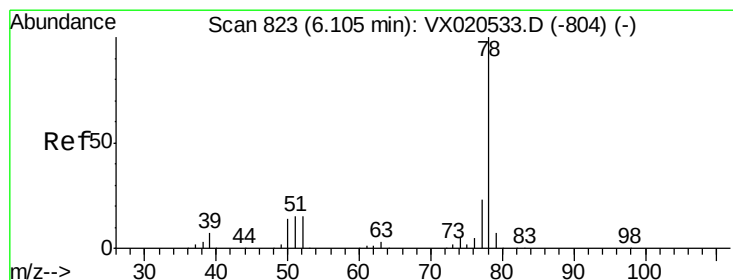
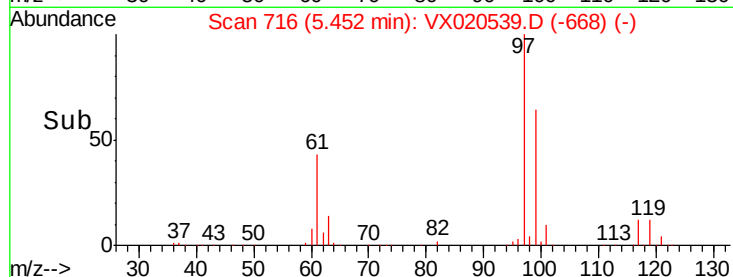
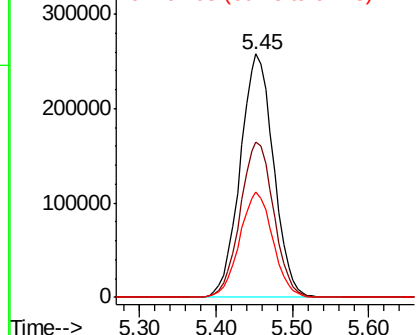
#30
 1,1,1-Trichloroethane
 Concen: 182.804 ug/L
 RT: 5.45 min Scan# 716
 Delta R.T. -0.01 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 97 Resp: 778924
 Ion Ratio Lower Upper
 97 100
 99 64.2 52.1 78.1
 61 43.2 35.3 52.9

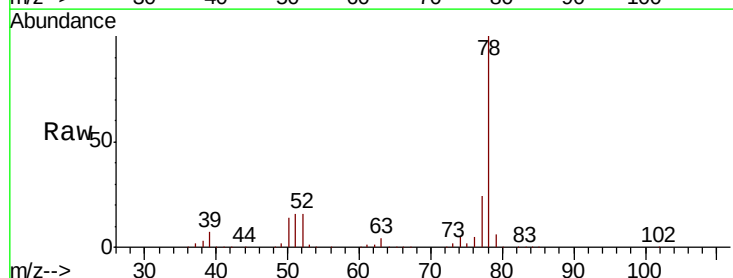


Abundance Ion 97.00 (96.70 to 97.70): VX0
 Ion 99.00 (98.70 to 99.70): VX0
 Ion 61.05 (60.75 to 61.75): VX0

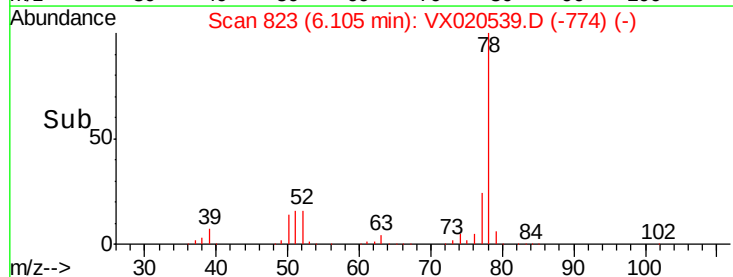
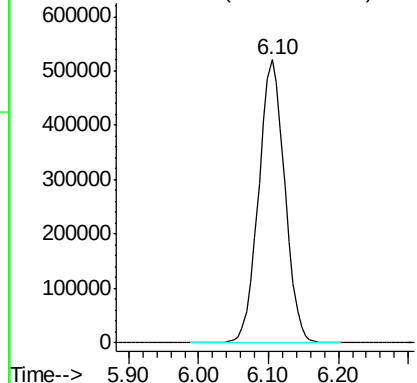


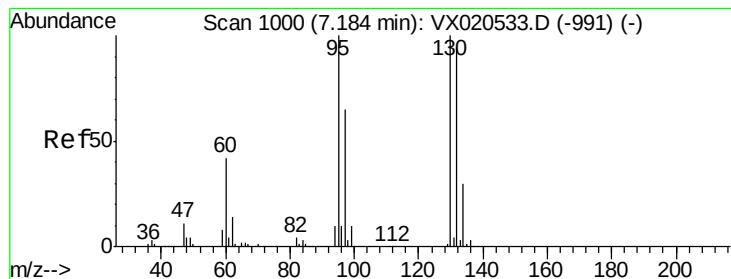
#33
 Benzene
 Concen: 122.610 ug/L
 RT: 6.10 min Scan# 823
 Delta R.T. 0.00 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

Tgt Ion: 78 Resp: 1351047



Abundance Ion 78.00 (77.70 to 78.70): VX0





#34

Trichloroethene

Concen: 198.345 ug/L

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 95 Resp: 556613

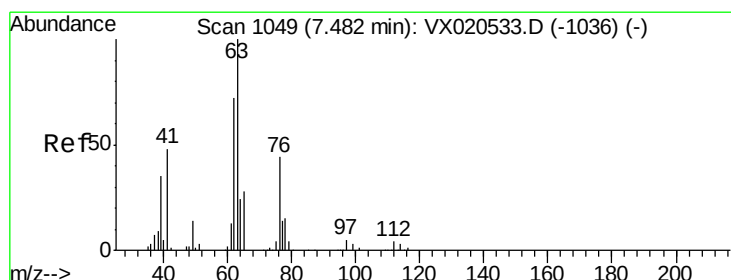
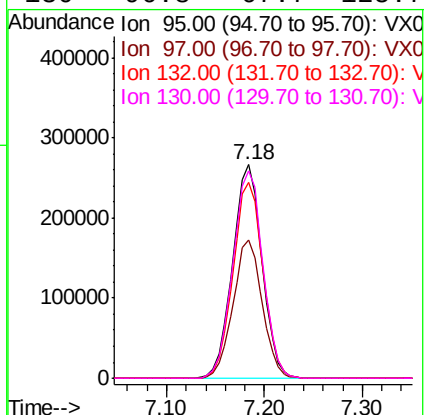
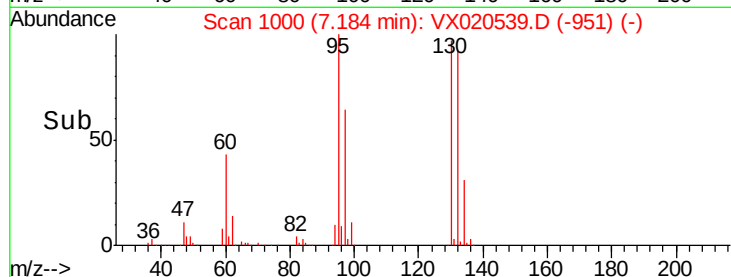
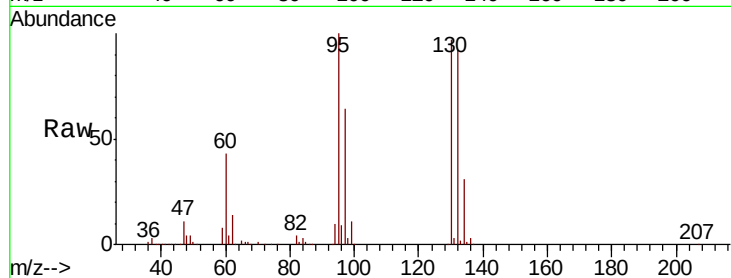
Ion Ratio Lower Upper

95 100

97 64.5 44.5 82.7

132 91.7 65.2 121.0

130 96.8 67.7 125.7



#37

1,2-Dichloropropane

Concen: 103.415 ug/L

RT: 7.49 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VX020539.D

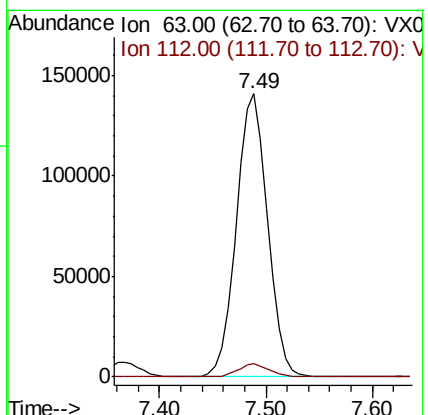
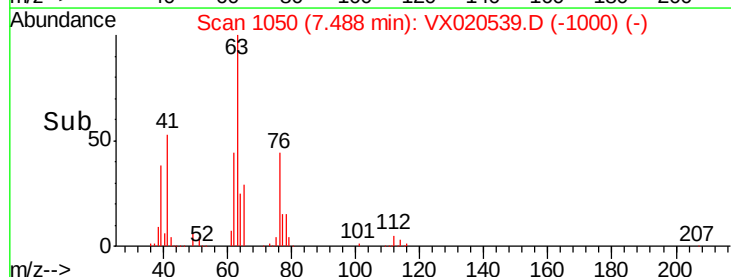
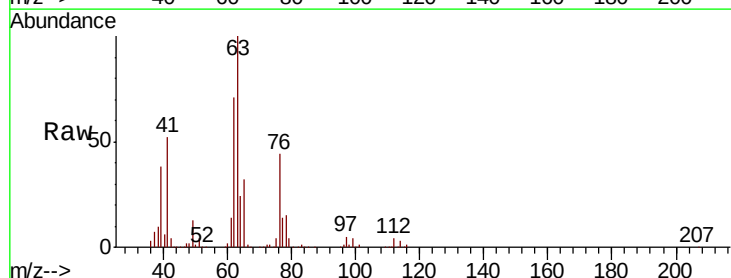
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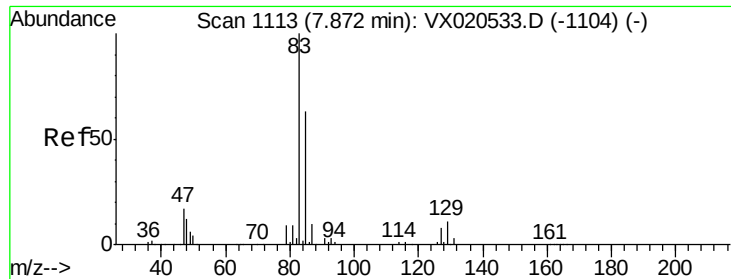
Tgt Ion: 63 Resp: 289072

Ion Ratio Lower Upper

63 100

112 4.6 3.6 5.4

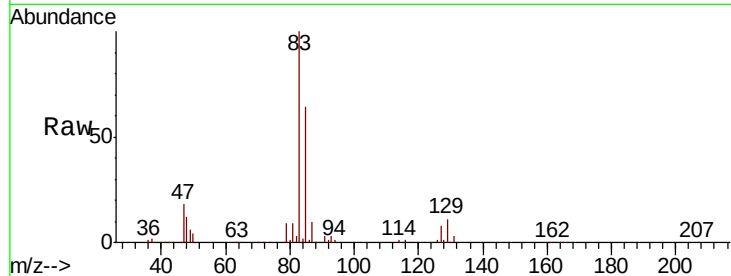




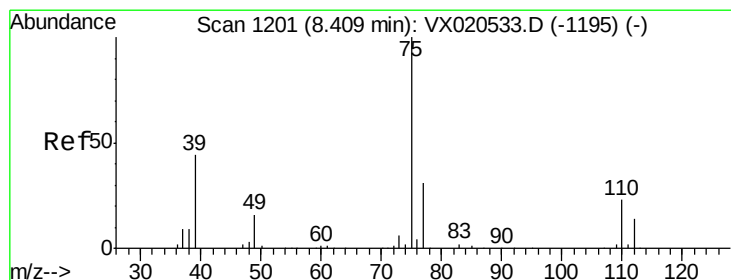
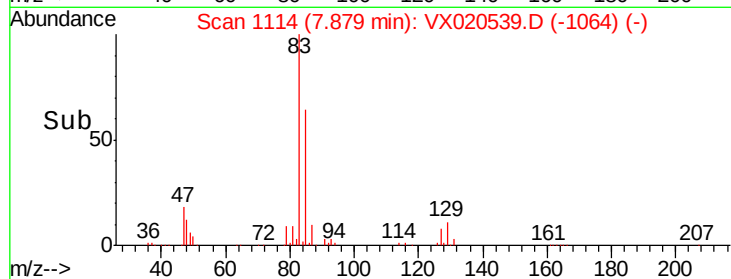
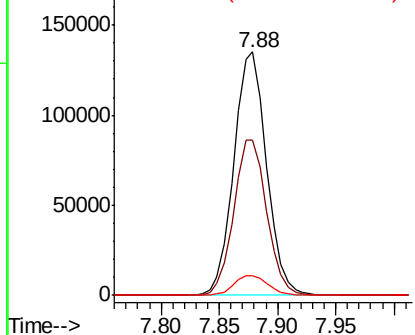
#38
Bromodichloromethane
Concen: 73.671 ug/L
RT: 7.88 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 264433
Ion Ratio Lower Upper
83 100
85 63.6 45.1 83.7
127 8.1 6.6 10.0

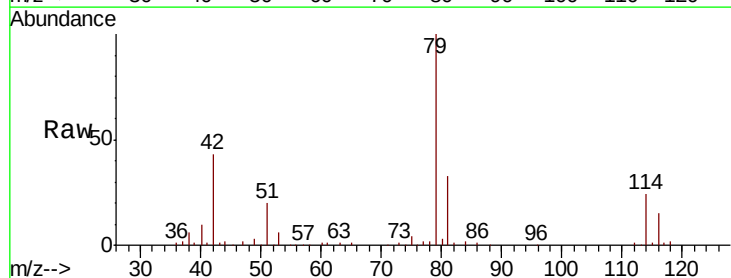


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 85.00 (84.70 to 85.70): VX0
Ion 127.00 (126.70 to 127.70): V

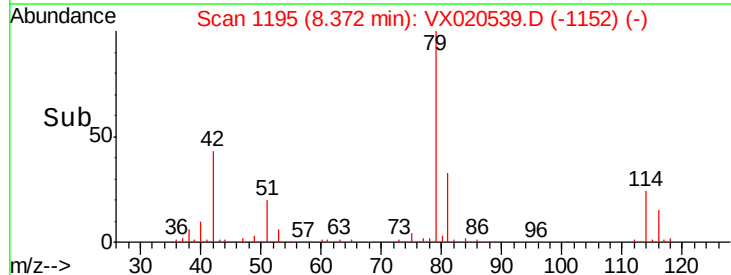
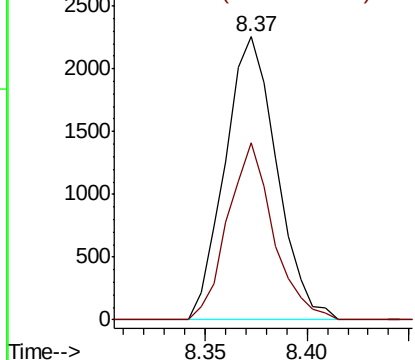


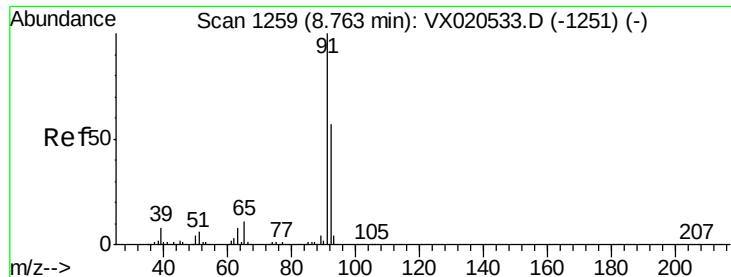
#39
cis-1,3-Dichloropropene
Concen: 0.944 ug/L
RT: 8.37 min Scan# 1195
Delta R.T. -0.04 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

Tgt Ion: 75 Resp: 3970
Ion Ratio Lower Upper
75 100
77 62.5 22.7 42.3#



Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#42

Toluene

Concen: 143.110 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_X

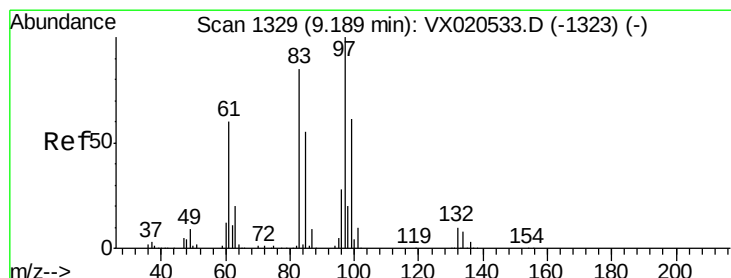
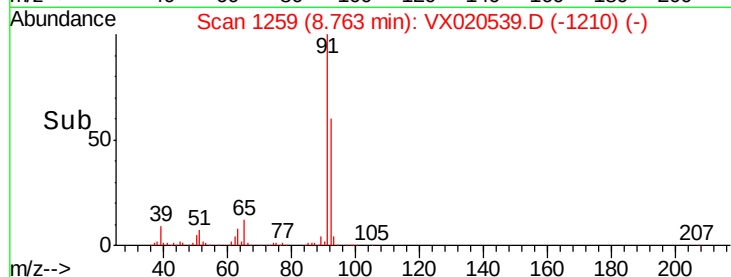
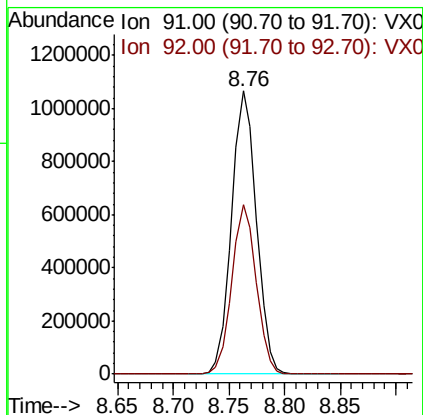
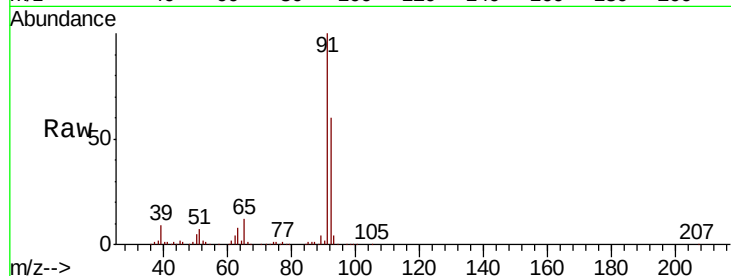
ClientSampleId :

Tot Ion: 91 Resp: 1652080

Ion Ratio Lower Upper

91 100

92 60.0 40.5 75.1



#45

1,1,2-Trichloroethane

Concen: 73.969 ug/L

RT: 9.20 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Tgt Ion: 97 Resp: 204633

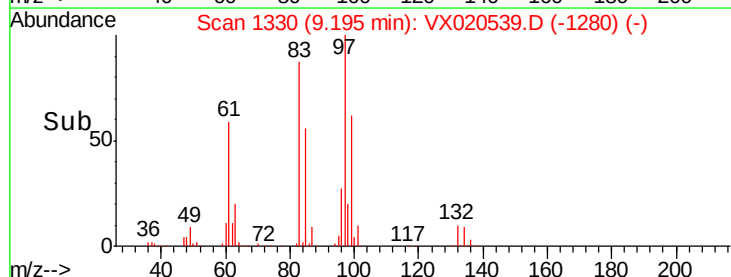
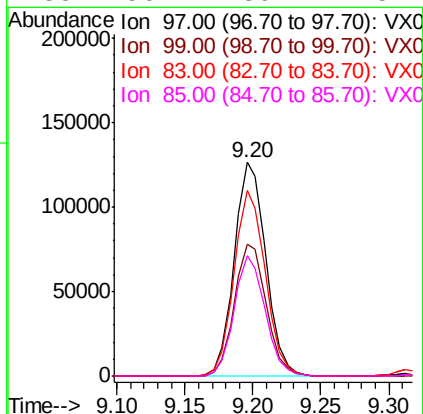
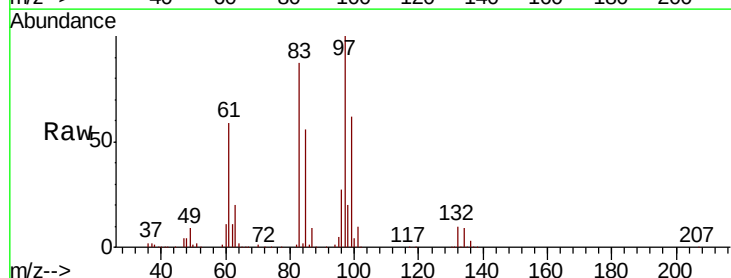
Ion Ratio Lower Upper

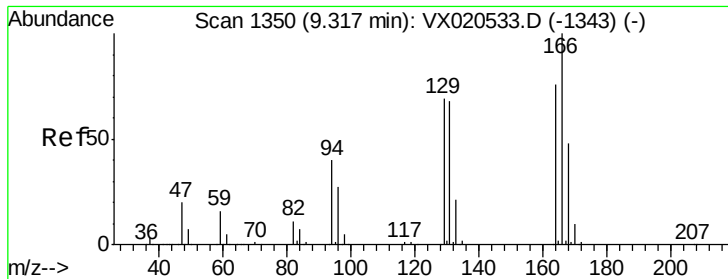
97 100

99 61.7 44.0 81.6

83 87.1 60.8 113.0

85 56.2 39.4 73.2

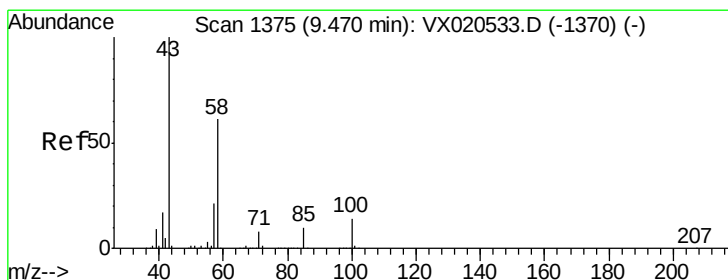
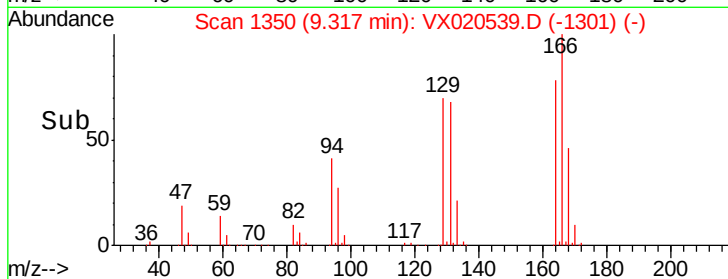
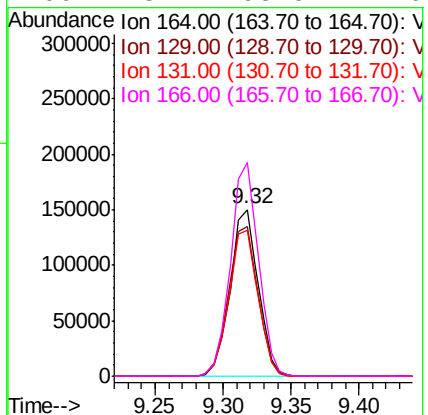
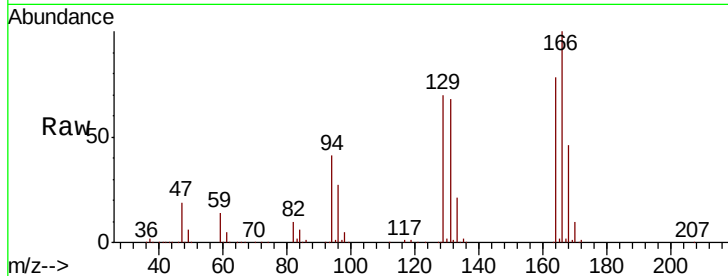




#46
Tetrachloroethene
Concen: 98.858 ug/L
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

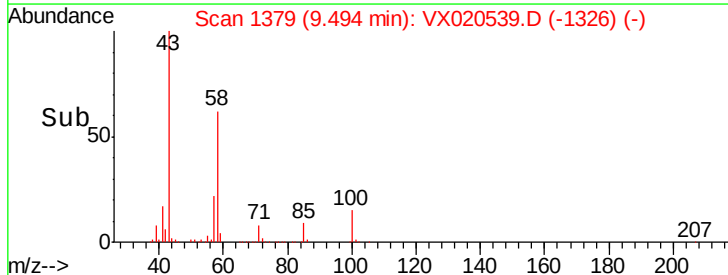
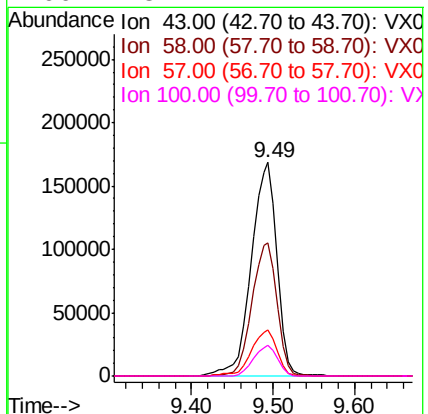
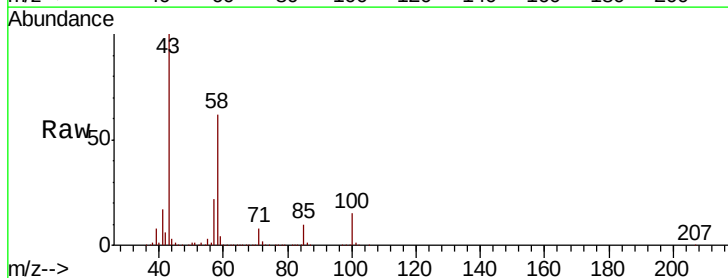
Instrument :
MSVOA_X
ClientSampleId :

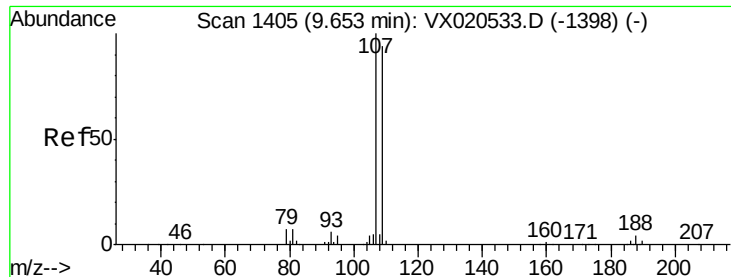
Tot Ion:	164	Resp:	215037
Ion	Ratio	Lower	Upper
164	100		
129	90.2	65.6	121.8
131	87.5	63.7	118.3
166	128.2	93.0	172.6



#48
2-Hexanone
Concen: 128.101 ug/L
RT: 9.49 min Scan# 1379
Delta R.T. 0.02 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

Tgt Ion:	43	Resp:	371752
Ion	Ratio	Lower	Upper
43	100		
58	60.9	50.1	75.1
57	21.7	17.3	25.9
100	13.7	11.4	17.2





#50

1,2-Dibromoethane

Concen: 62.214 ug/L

RT: 9.65 min Scan# 1405

Delta R.T. 0.00 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Instrument :
MSVOA_X
ClientSampleId :

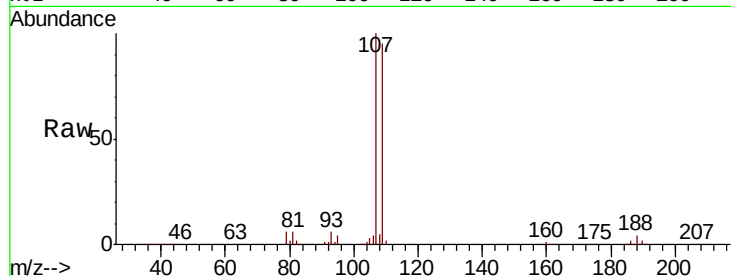
Tot Ion:107 Resp: 178292

Ion Ratio Lower Upper

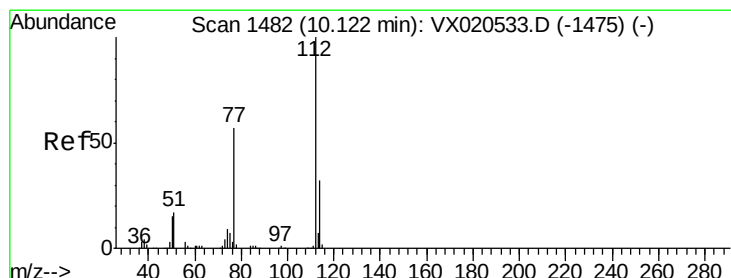
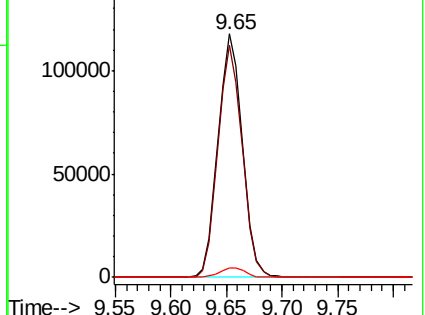
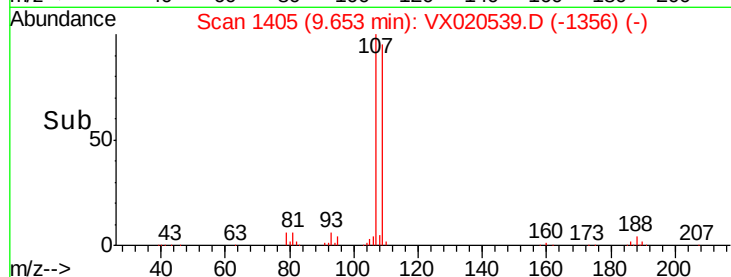
107 100

109 95.4 66.4 123.4

188 4.0 3.2 4.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 102.409 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

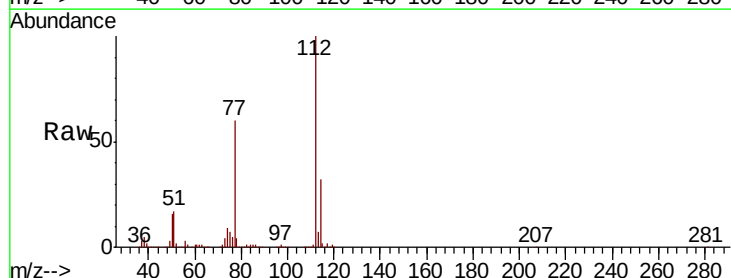
Tgt Ion:112 Resp: 748490

Ion Ratio Lower Upper

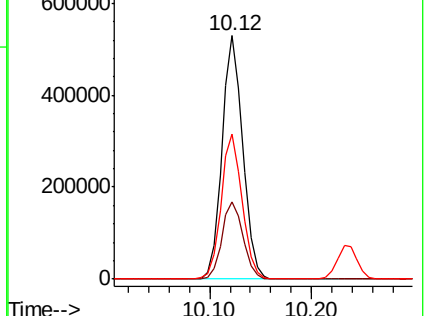
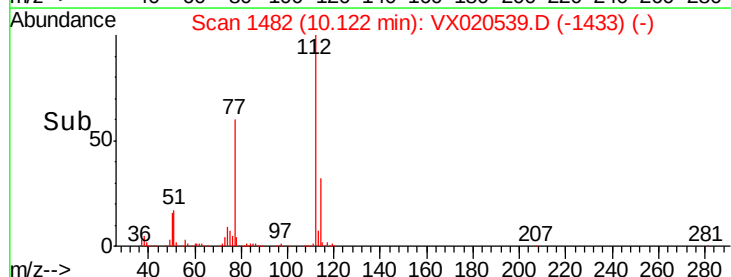
112 100

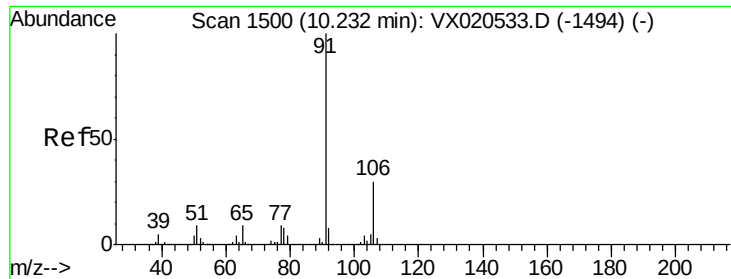
114 31.9 23.2 43.2

77 59.7 48.4 72.6



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 96.165 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_X

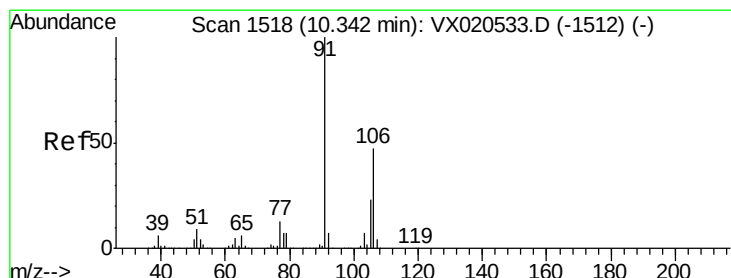
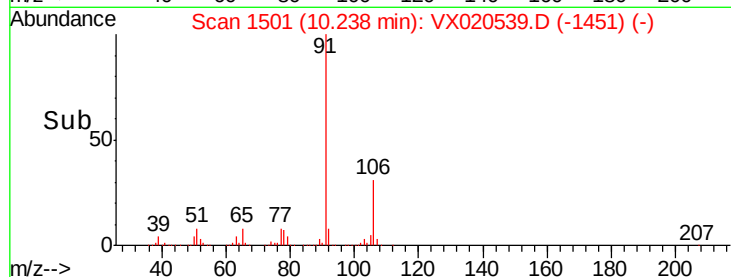
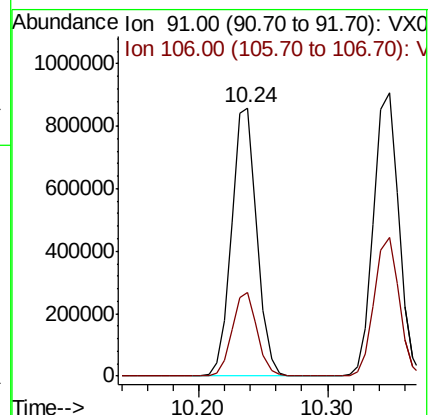
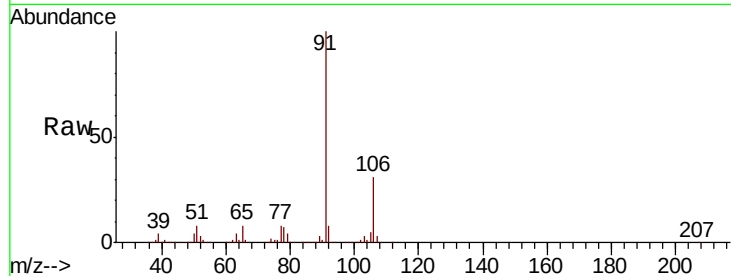
ClientSampleId :

Tot Ion: 91 Resp: 1187039

Ion Ratio Lower Upper

91 100

106 31.0 21.0 39.0



#53

m,p-Xylene

Concen: 127.648 ug/L

RT: 10.35 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VX020539.D

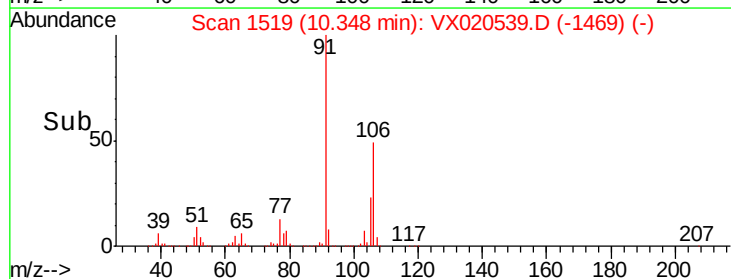
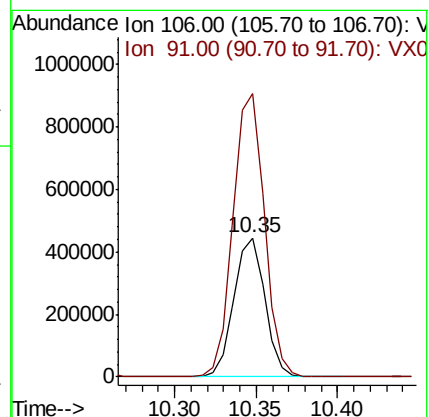
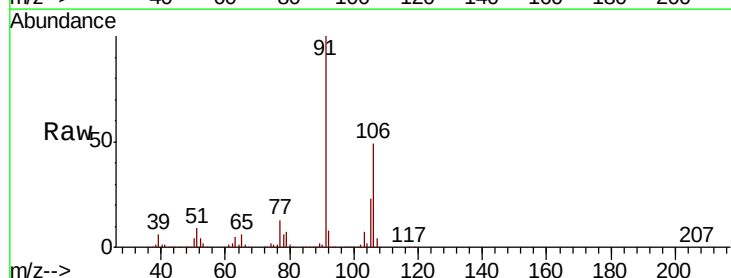
Acq: 08 Jan 2021 15:12

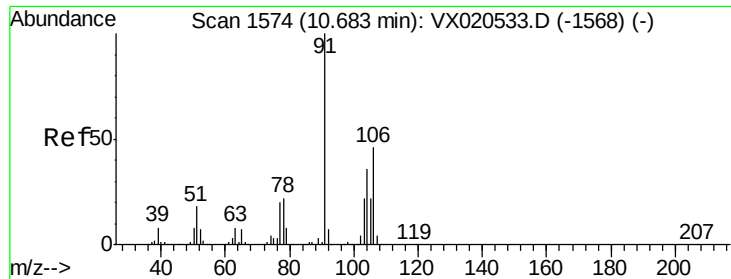
Tgt Ion: 106 Resp: 588695

Ion Ratio Lower Upper

106 100

91 203.3 142.5 264.6

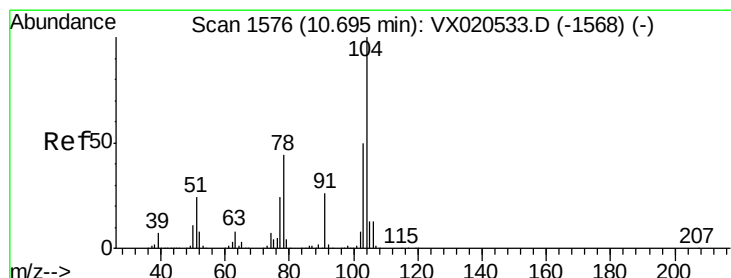
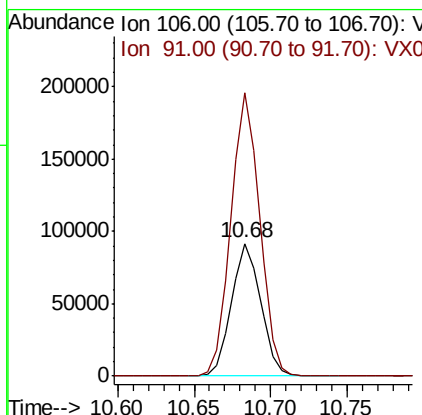
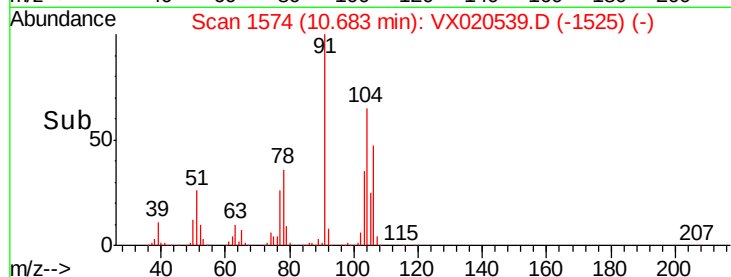
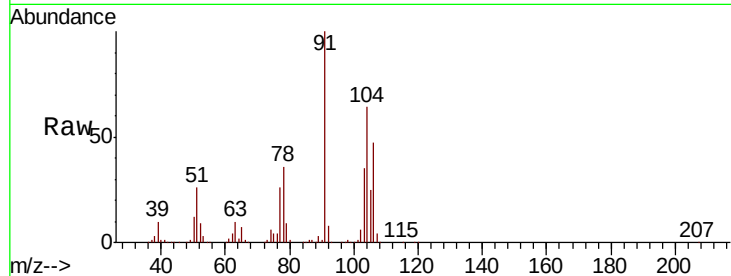




#54
o-Xylene
Concen: 27.179 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

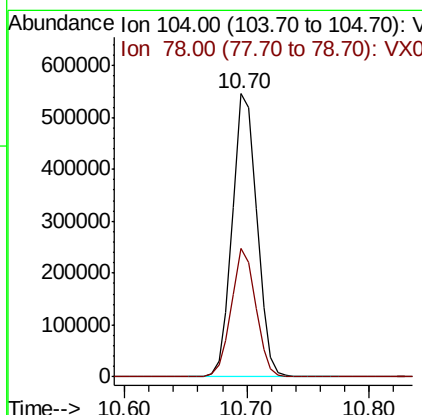
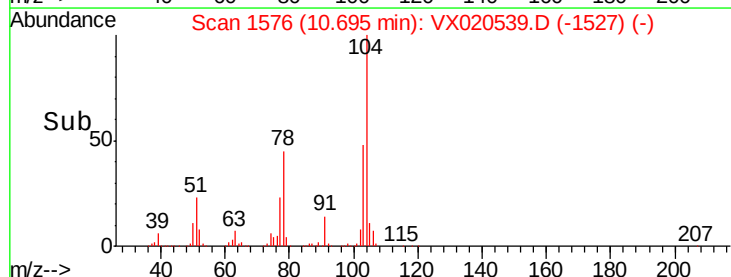
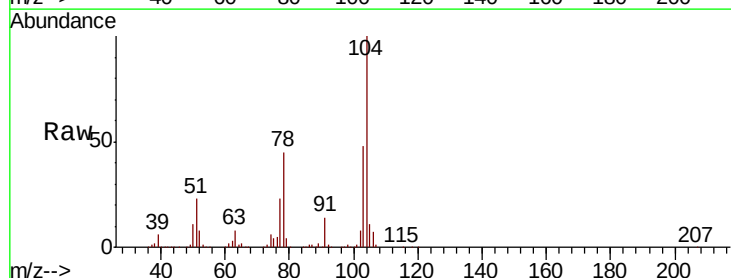
Instrument :
MSVOA_X
ClientSampled :

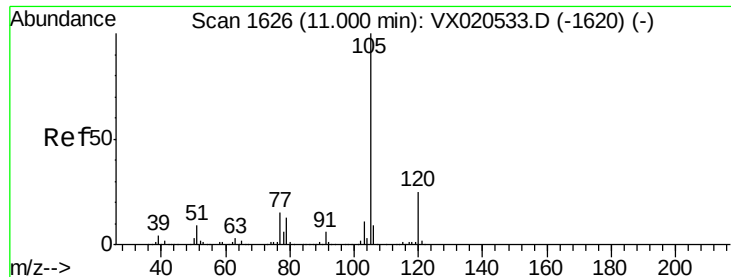
Tot Ion:106 Resp: 121643
Ion Ratio Lower Upper
106 100
91 213.6 156.2 290.0



#55
Styrene
Concen: 99.841 ug/L
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX020539.D
Acq: 08 Jan 2021 15:12

Tgt Ion:104 Resp: 756491
Ion Ratio Lower Upper
104 100
78 45.2 30.0 55.6





#60

Isopropylbenzene

Concen: 121.889 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_X

ClientSampleId :

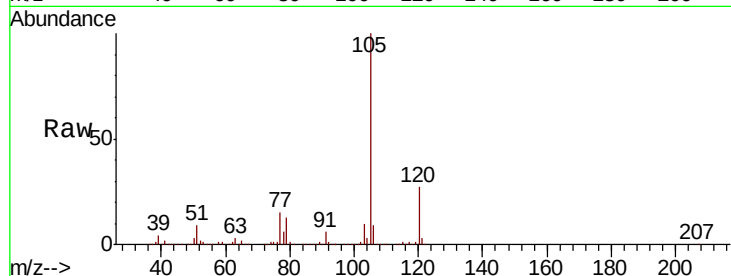
Tot Ion:105 Resp: 1512545

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

77 15.2 12.6 18.8

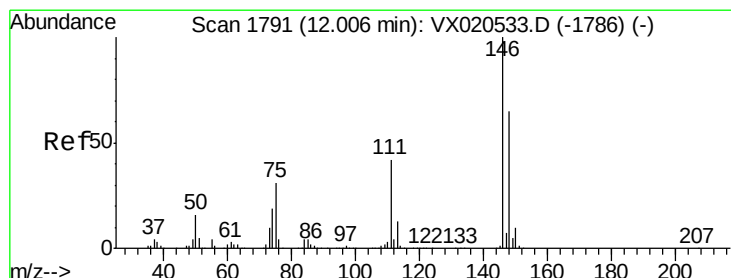
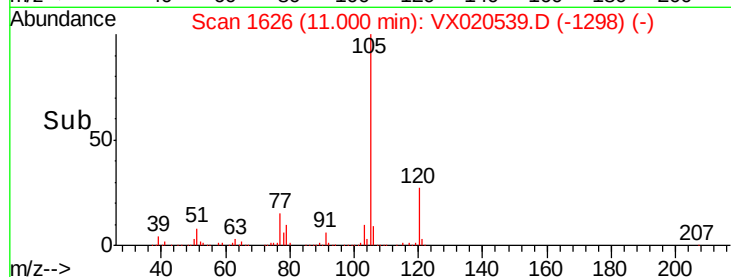
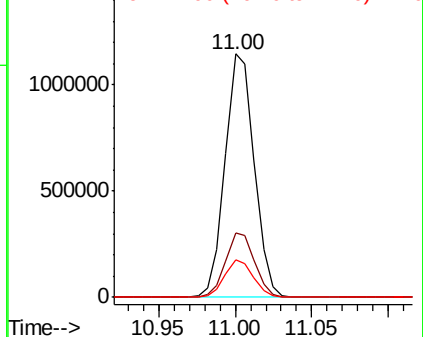


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#64

1,3-Dichlorobenzene

Concen: 69.636 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

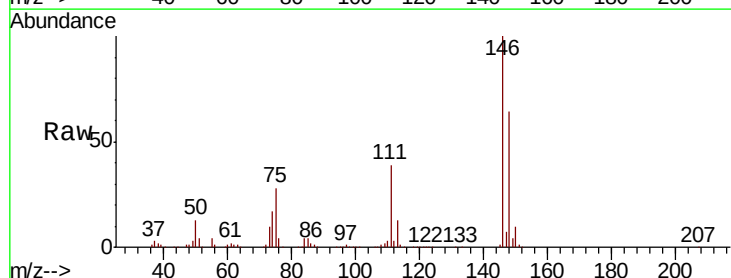
Tgt Ion:146 Resp: 403132

Ion Ratio Lower Upper

146 100

111 39.0 28.9 53.7

148 64.4 47.7 88.7

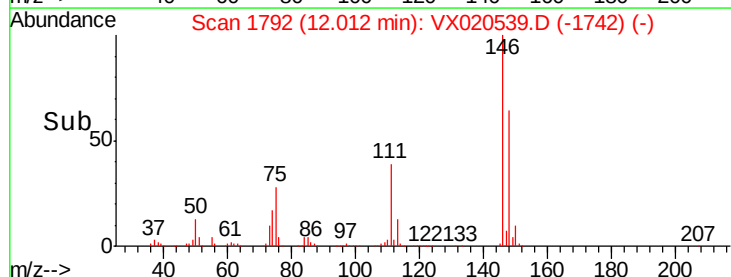
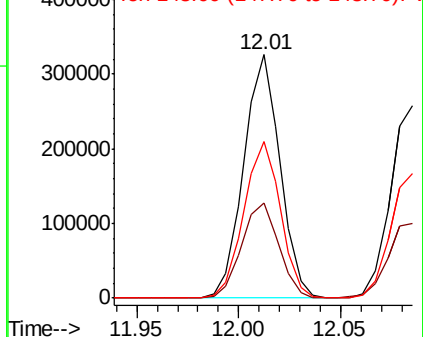


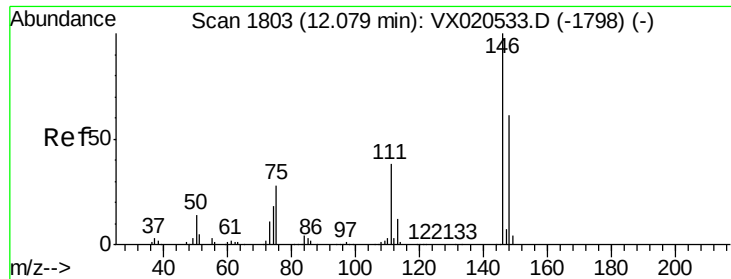
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

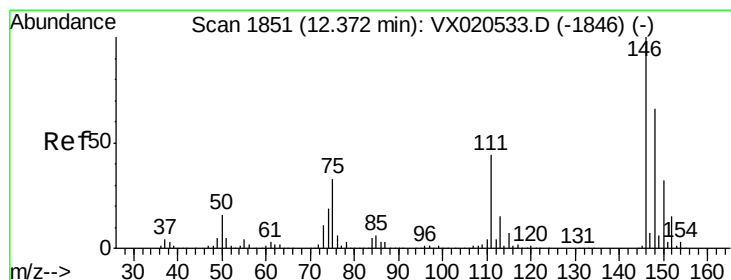
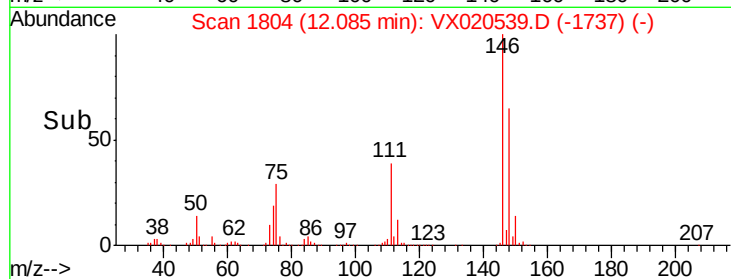
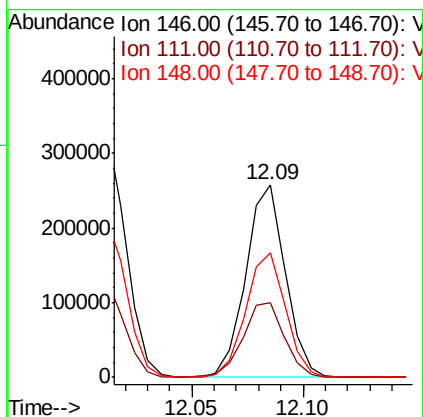
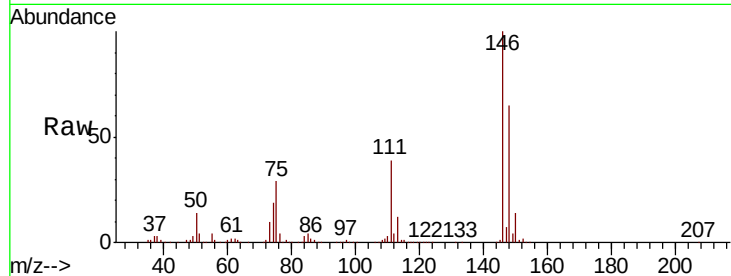




#65
 1,4-Dichlorobenzene
 Concen: 54.423 ug/L
 RT: 12.09 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

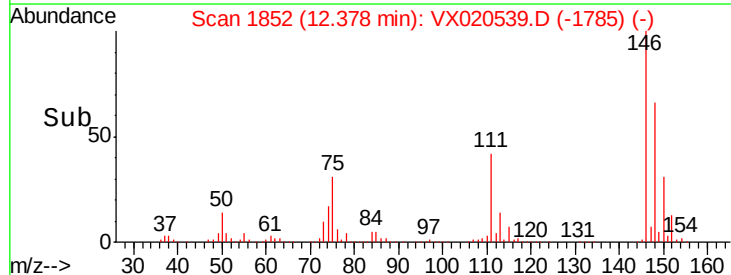
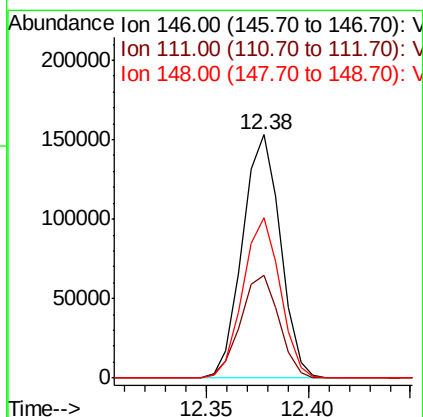
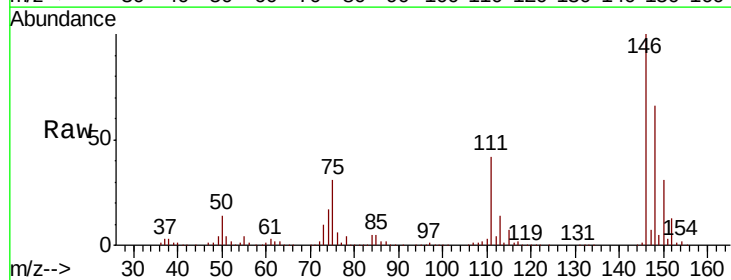
Instrument :
 MSVOA_X
 ClientSampled :

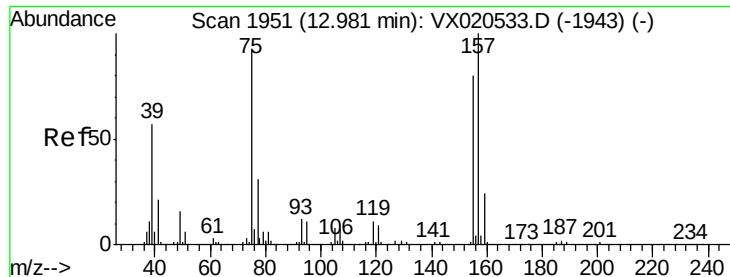
Tot Ion:146 Resp: 318336
 Ion Ratio Lower Upper
 146 100
 111 38.8 28.7 53.3
 148 64.9 45.8 85.2



#67
 1,2-Dichlorobenzene
 Concen: 34.322 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.01 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

Tgt Ion:146 Resp: 198107
 Ion Ratio Lower Upper
 146 100
 111 42.1 33.8 50.8
 148 66.0 51.4 77.2





#68

1,2-Dibromo-3-chloropropane

Concen: 55.625 ug/L

RT: 13.15 min Scan# 1979

Delta R.T. 0.17 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Instrument :

MSVOA_X

ClientSampleId :

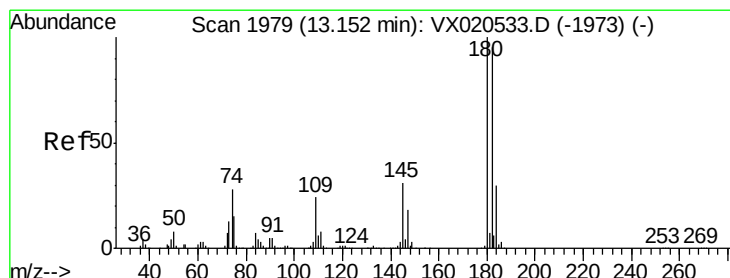
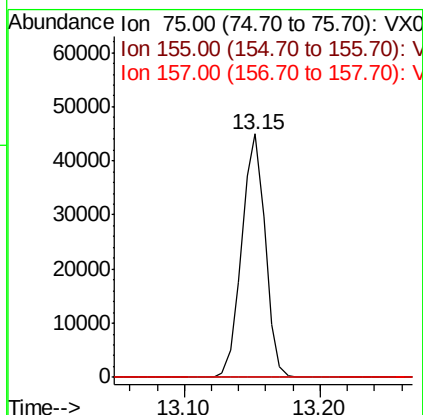
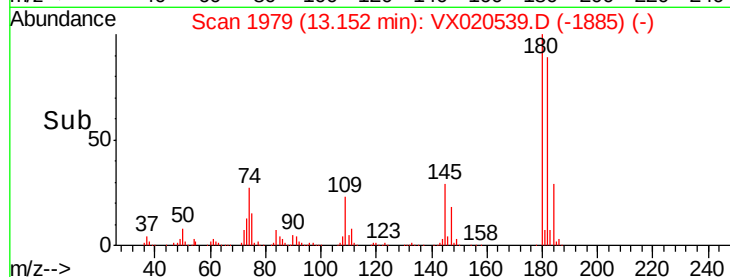
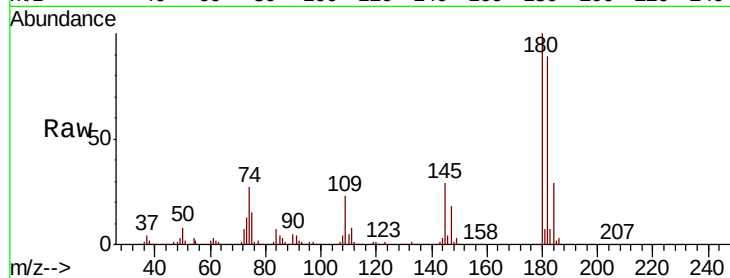
Tot Ion: 75 Resp: 54016

Ion Ratio Lower Upper

75 100

155 0.0 65.3 97.9#

157 0.0 80.5 120.7#



#69

1,3,5-Trichlorobenzene

Concen: 89.186 ug/L

RT: 13.15 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VX020539.D

Acq: 08 Jan 2021 15:12

Tgt Ion: 180 Resp: 354447

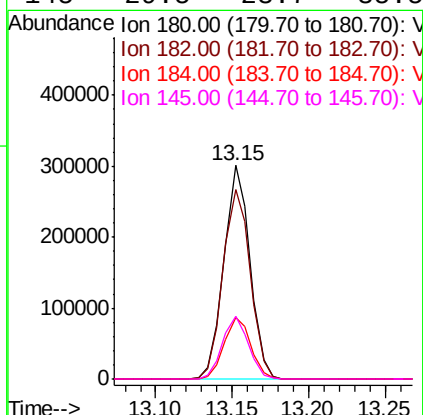
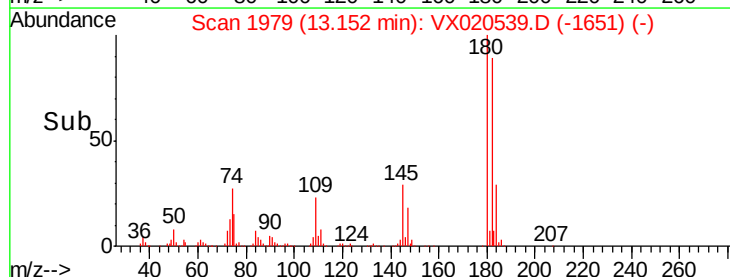
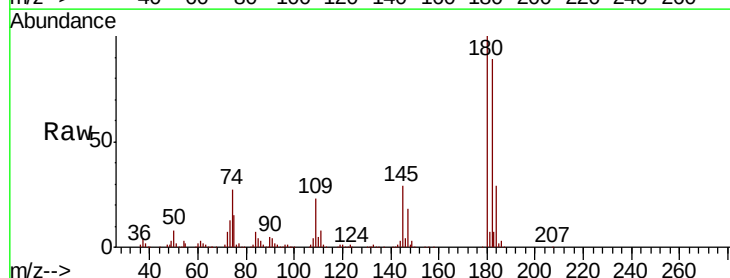
Ion Ratio Lower Upper

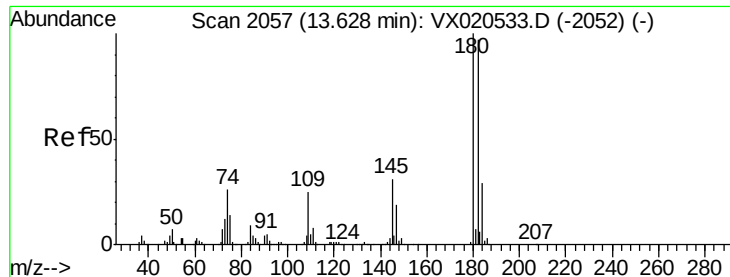
180 100

182 93.5 74.8 112.2

184 29.5 24.1 36.1

145 29.5 23.7 35.5

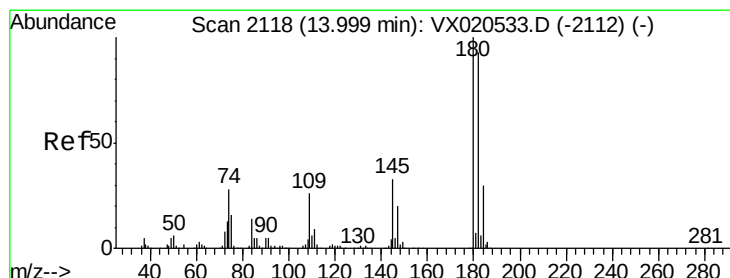
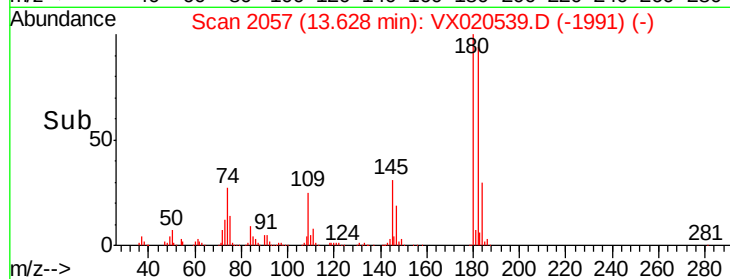
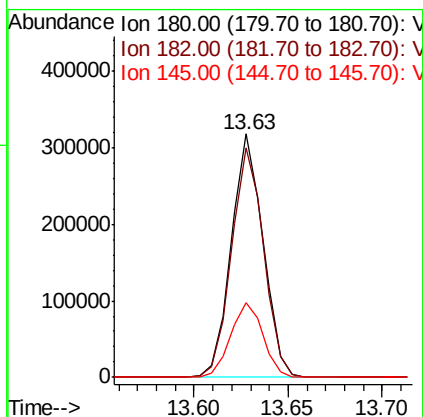
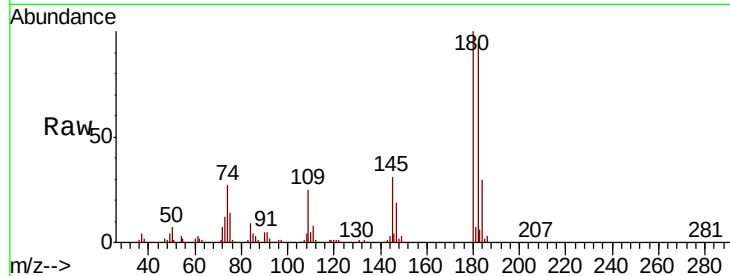




#70
 1,2,4-trichlorobenzene
 Concen: 108.532 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	180	Resp	371384
Ion Ratio	100	Lower	Upper
182	95.1	74.3	111.5
145	31.1	24.1	36.1



#72
 1,2,3-Trichlorobenzene
 Concen: 78.500 ug/L
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX020539.D
 Acq: 08 Jan 2021 15:12

Tgt Ion	180	Resp	276352
Ion Ratio	100	Lower	Upper
182	92.0	74.6	112.0
145	31.8	25.6	38.4

