

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\
 Data File : VX019520.D
 Acq On : 21 Nov 2020 02:23
 Operator : JC/MD
 Sample : L4779-05 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1555

Quant Time: Nov 21 05:35:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	306365	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	498201	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	426215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	183012	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	183961	46.31	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.62%	
35) Dibromofluoromethane		5.46	113	147480	47.16	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.32%	
50) Toluene-d8		8.70	98	584383	48.09	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.18%	
62) 4-Bromofluorobenzene		11.12	95	196300	44.90	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.80%	

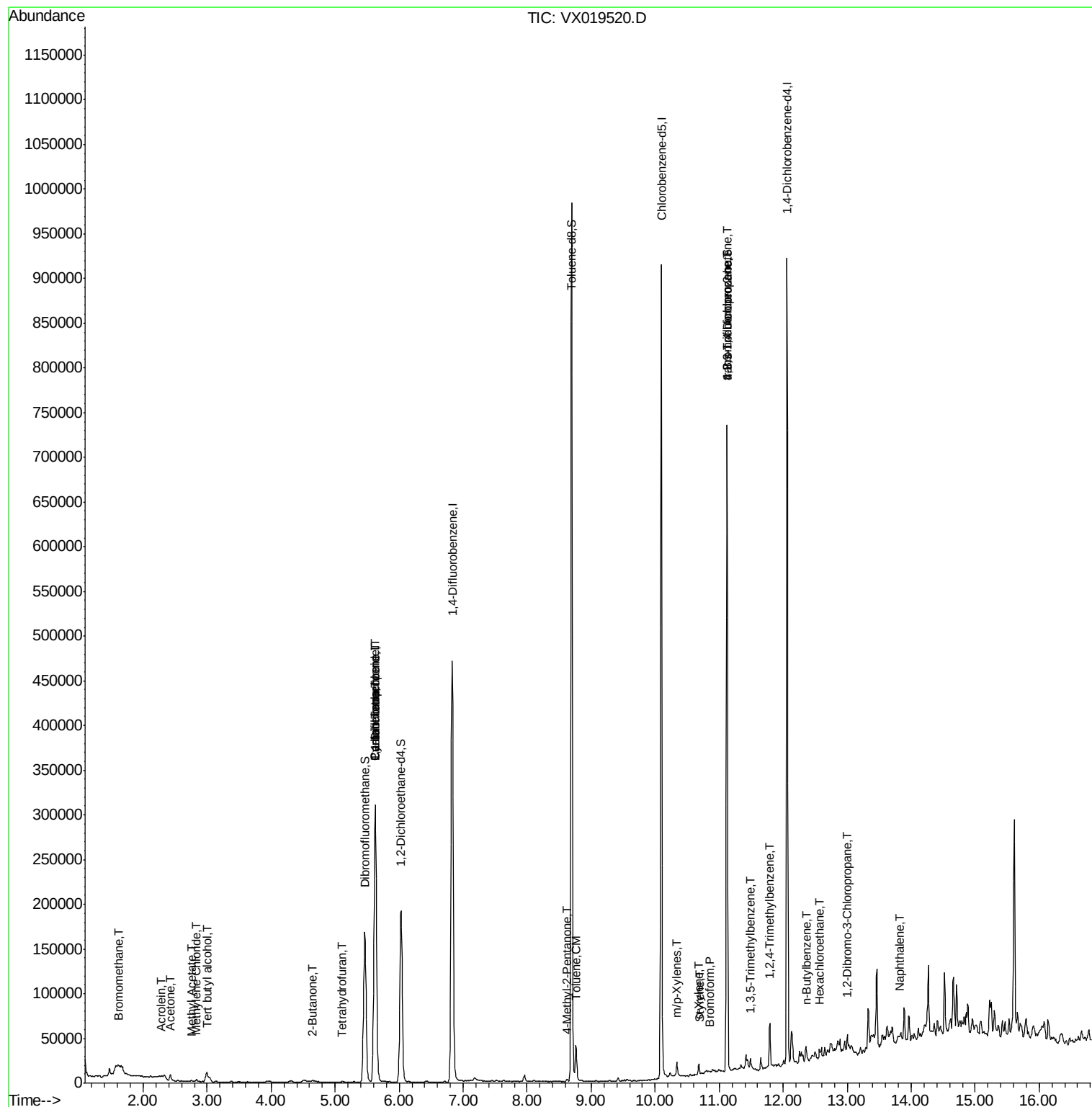
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	355	0.255	ug/l #	79
6) Chloroethane	1.72	64	71	Below Cal	#	41
11) Tert butyl alcohol	2.99	59	6283	8.358	ug/l #	77
13) Acrolein	2.28	56	465	0.920	ug/l #	36
16) Acetone	2.43	43	6907	4.496	ug/l	95
18) Methyl Acetate	2.76	43	1322	0.981	ug/l	99
20) Methylene Chloride	2.82	84	1030	0.268	ug/l #	85
25) 2-Butanone	4.65	43	2213	0.959	ug/l #	87
29) Tetrahydrofuran	5.10	42	306	0.208	ug/l #	58
31) Cyclohexane	5.62	56	6264	1.212	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23306	4.990	ug/l #	50
38) Carbon Tetrachloride	5.63	117	29609	6.549	ug/l #	17
51) 4-Methyl-2-Pentanone	8.63	43	1909	0.444	ug/l	91
52) Toluene	8.76	92	14274	1.626	ug/l	97
68) m/p-Xylenes	10.34	106	3575	0.625	ug/l	100
69) o-Xylene	10.68	106	2922	0.534	ug/l	93
70) Styrene	10.69	104	505	1.694	ug/l #	1
71) Bromoform	10.85	173	153	3.655	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	96444	24.148	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	5142	0.484	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	96444	63.932	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	21371	1.989	ug/l	98
89) n-Butylbenzene	12.37	91	2448	0.244	ug/l #	52
90) Hexachloroethane	12.57	117	546	0.294	ug/l	75
92) 1,2-Dibromo-3-Chloropropan	12.99	75	186	0.201	ug/l #	1
95) Naphthalene	13.82	128	4412	2.491	ug/l #	93

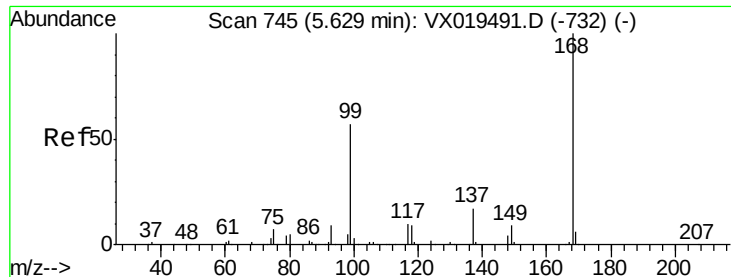
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampleId :

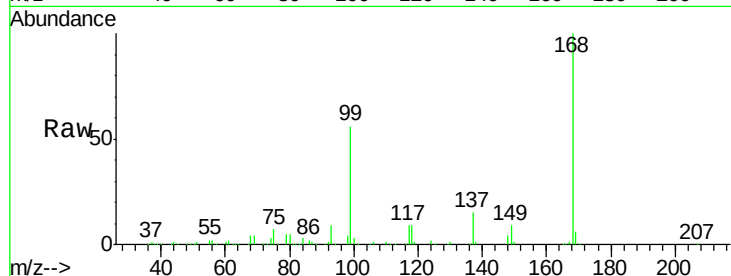
1555

Tot Ion:168 Resp: 306365

Ion Ratio Lower Upper

168 100

99 55.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

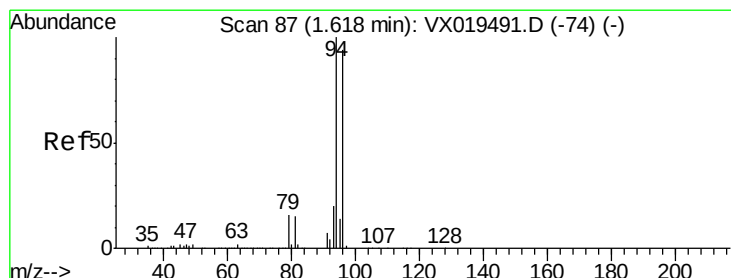
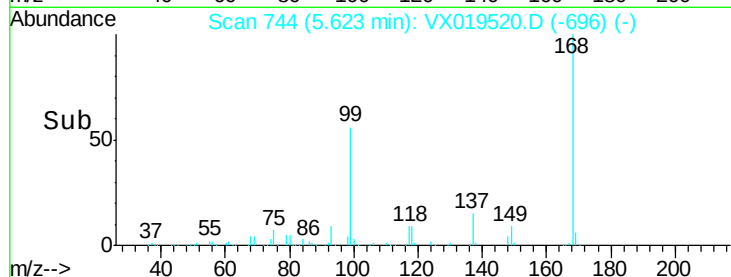
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.255 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019520.D

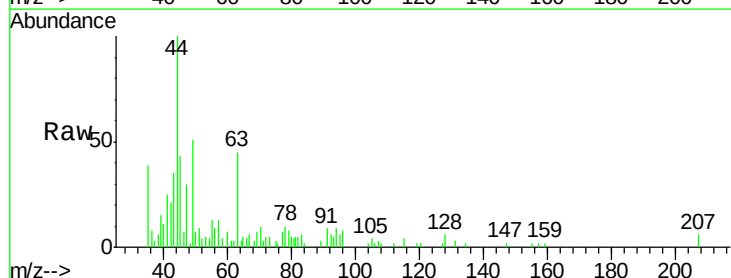
Acq: 21 Nov 2020 02:23

Tgt Ion: 94 Resp: 355

Ion Ratio Lower Upper

94 100

96 73.8 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

250

200

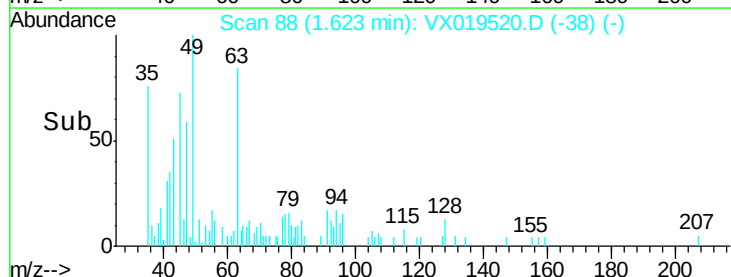
150

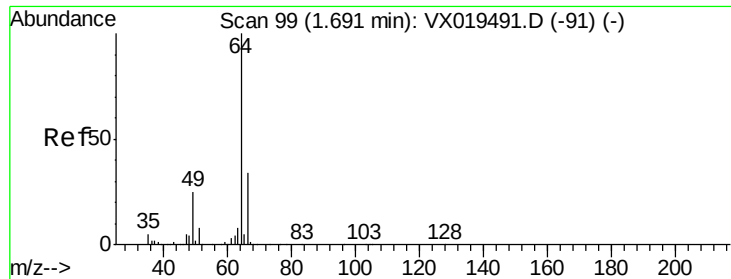
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.03 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampled :

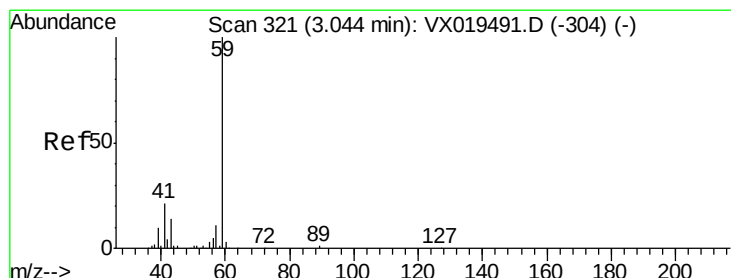
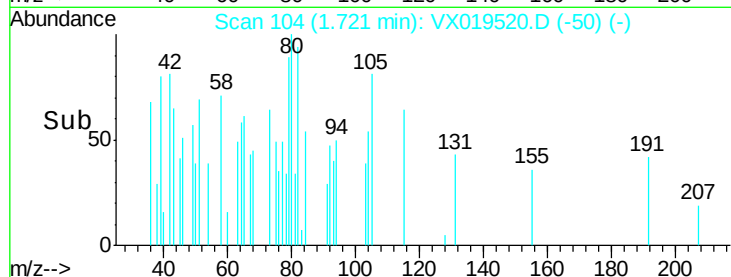
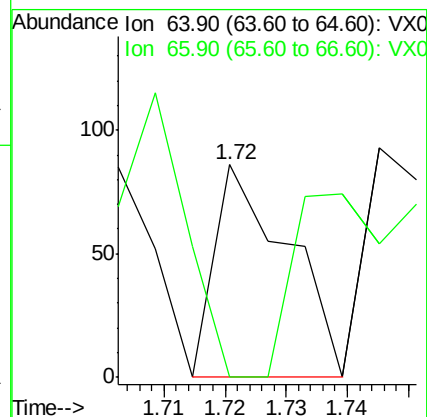
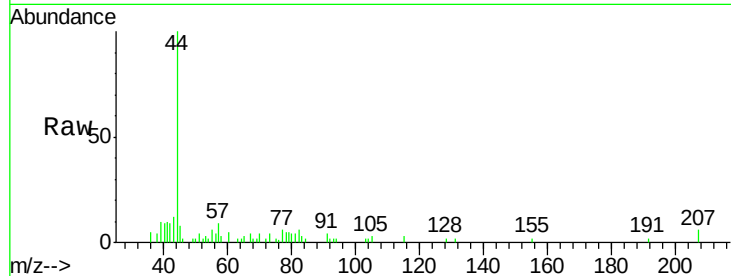
1555

Tot Ion: 64 Resp: 71

Ion Ratio Lower Upper

64 100

66 0.0 27.1 40.7#



#11

Tert butyl alcohol

Concen: 8.358 ug/l

RT: 2.99 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019520.D

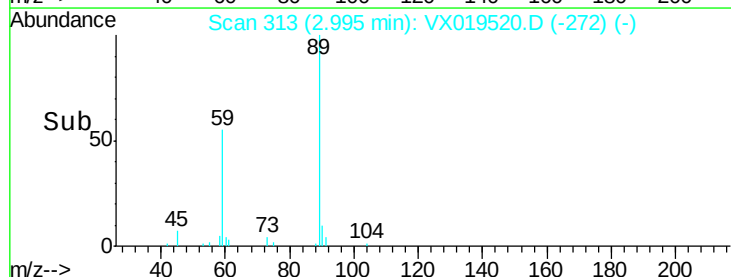
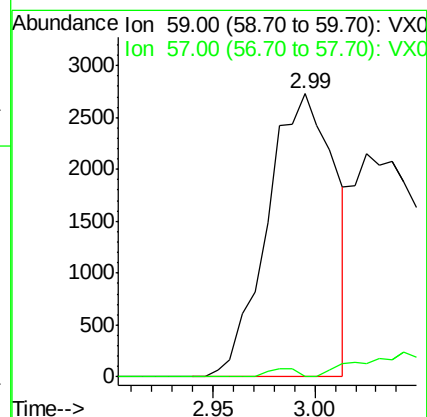
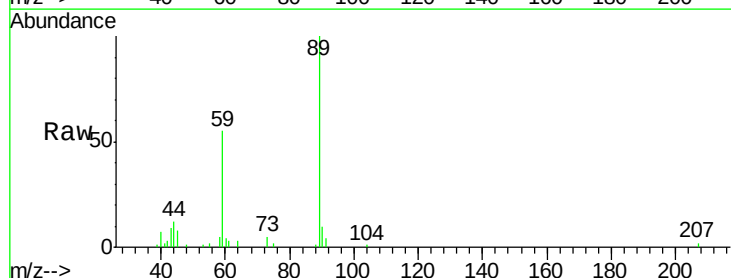
Acq: 21 Nov 2020 02:23

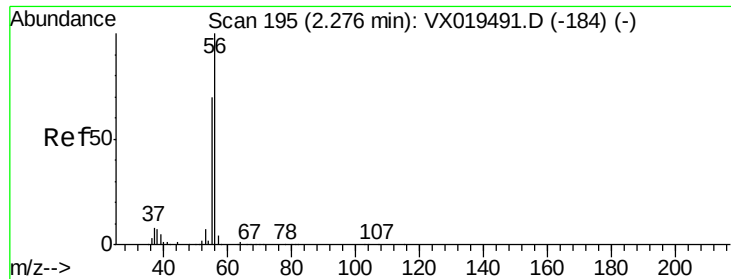
Tgt Ion: 59 Resp: 6283

Ion Ratio Lower Upper

59 100

57 1.2 7.9 11.9#





#13

Acrolein

Concen: 0.920 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampled :

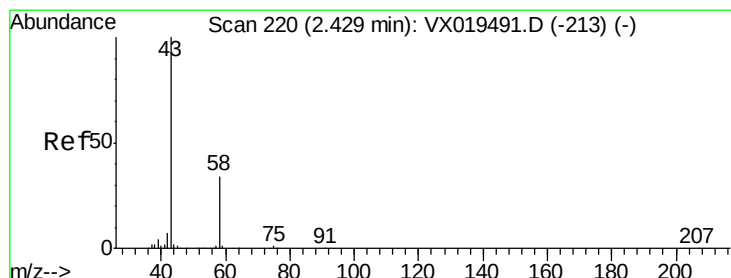
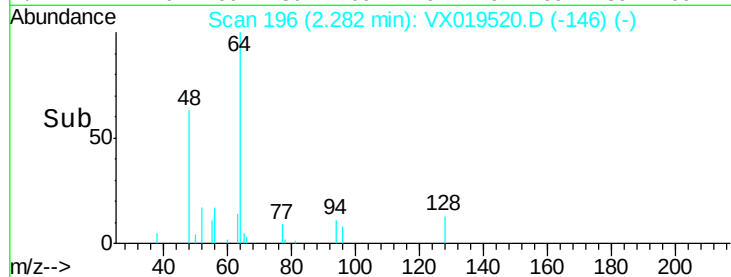
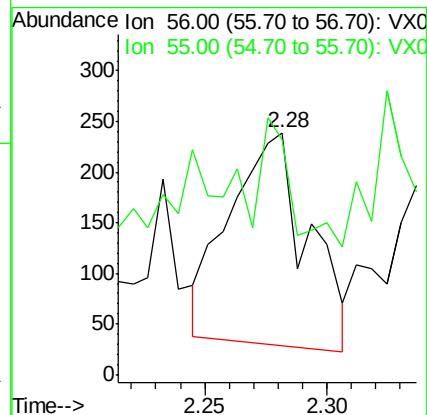
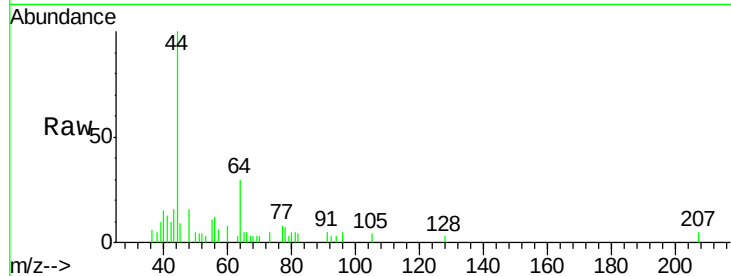
1555

Tot Ion: 56 Resp: 465

Ion Ratio Lower Upper

56 100

55 17.2 55.5 83.3#



#16

Acetone

Concen: 4.496 ug/l

RT: 2.43 min Scan# 220

Delta R.T. -0.00 min

Lab File: VX019520.D

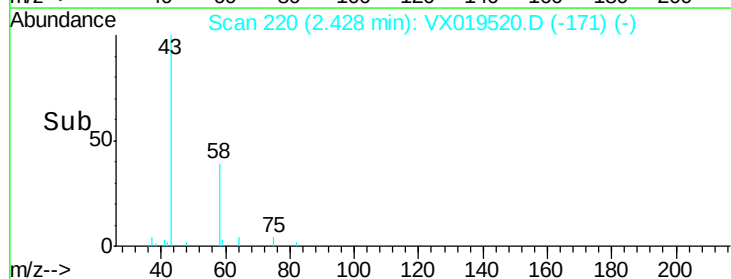
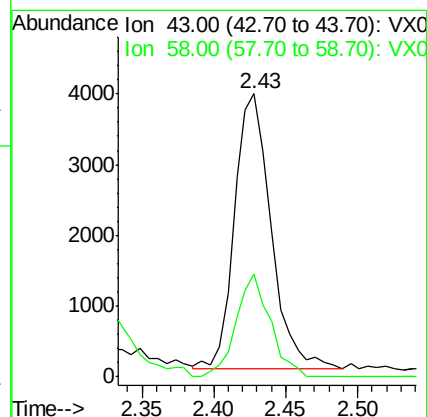
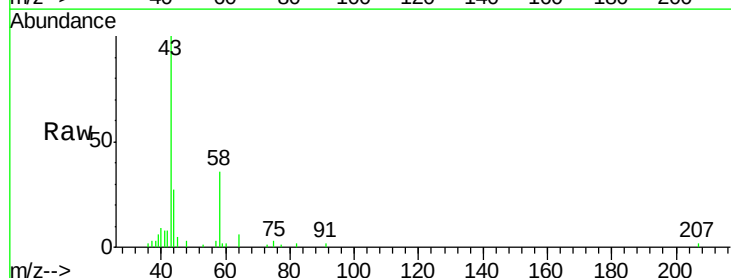
Acq: 21 Nov 2020 02:23

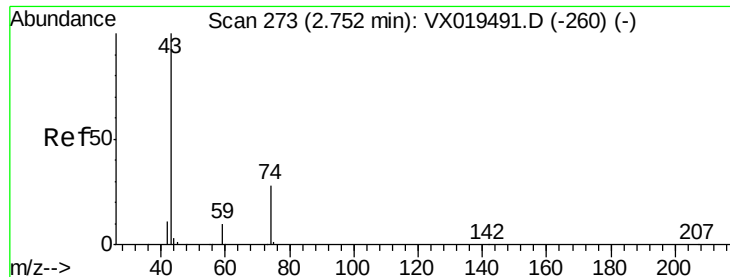
Tgt Ion: 43 Resp: 6907

Ion Ratio Lower Upper

43 100

58 37.3 27.4 41.2

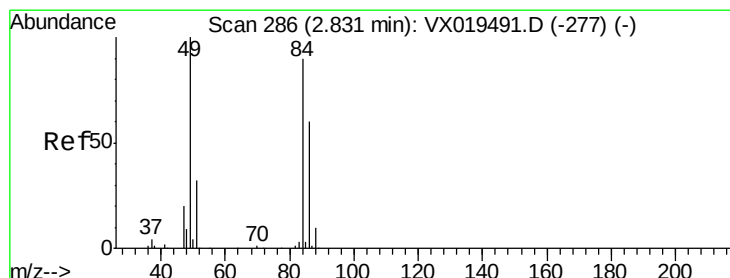
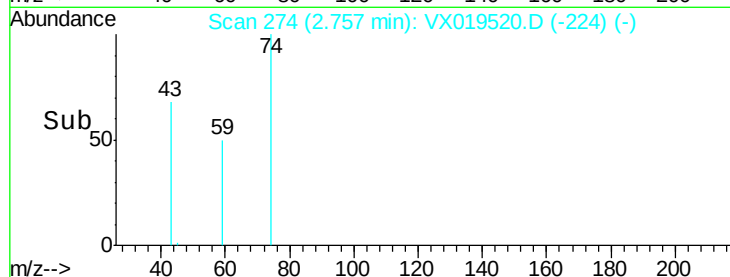
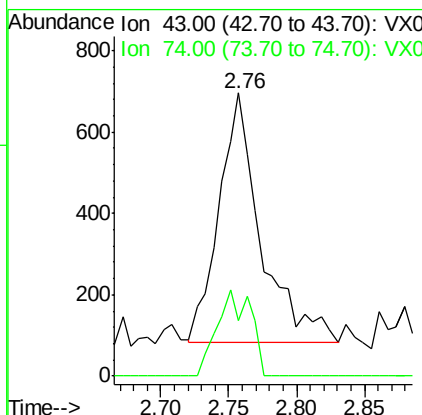
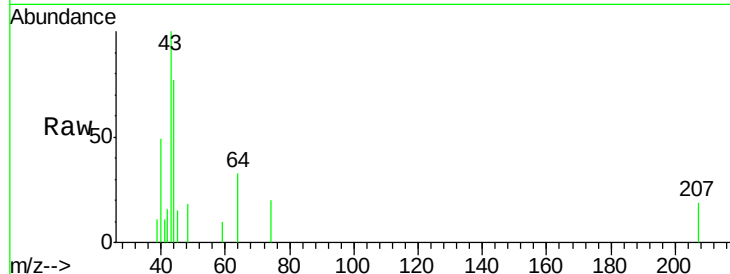




#18
Methyl Acetate
Concen: 0.981 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

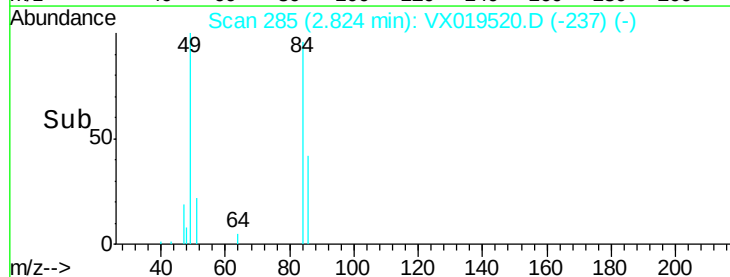
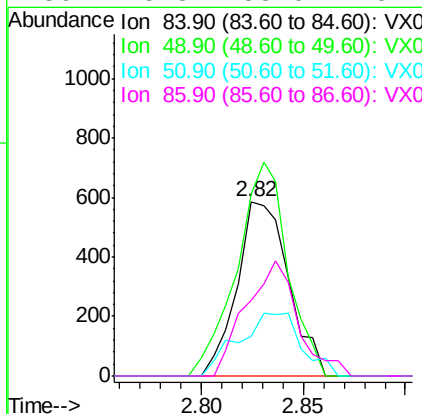
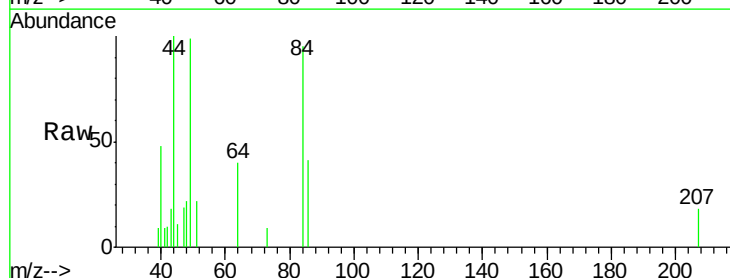
Instrument :
MSVOA_X
ClientSampleId :
1555

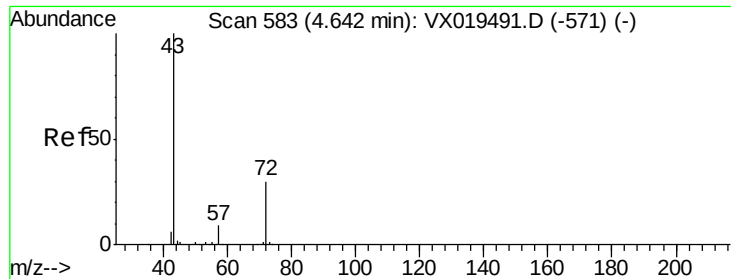
Tot Ion: 43 Resp: 1322
Ion Ratio Lower Upper
43 100
74 27.2 22.2 33.4



#20
Methylene Chloride
Concen: 0.268 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

Tgt Ion: 84 Resp: 1030
Ion Ratio Lower Upper
84 100
49 104.4 88.5 132.7
51 23.0 28.0 42.0#
86 43.3 53.0 79.4#





#25

2-Butanone

Concen: 0.959 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampleId :

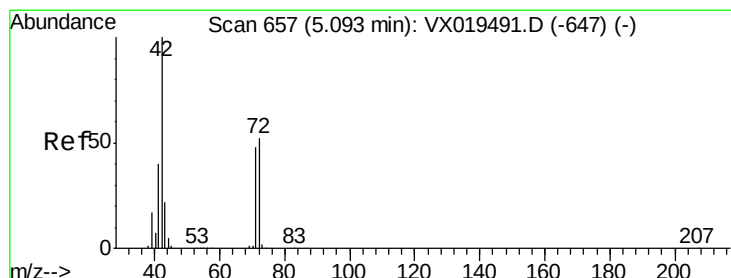
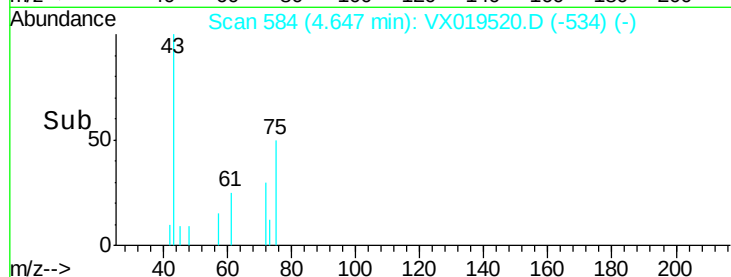
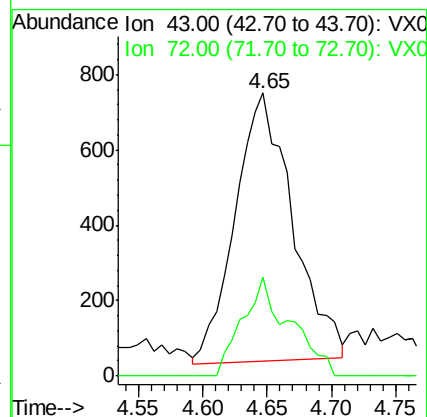
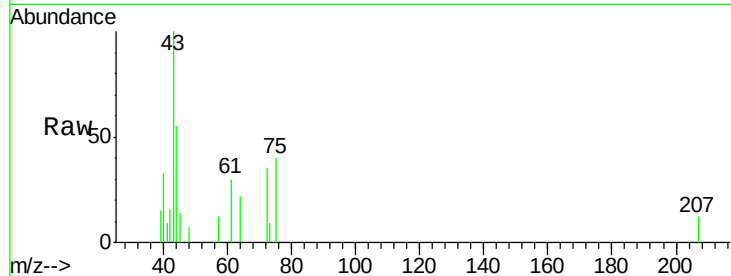
1555

Tot Ion: 43 Resp: 2213

Ion Ratio Lower Upper

43 100

72 37.2 24.0 36.0#



#29

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

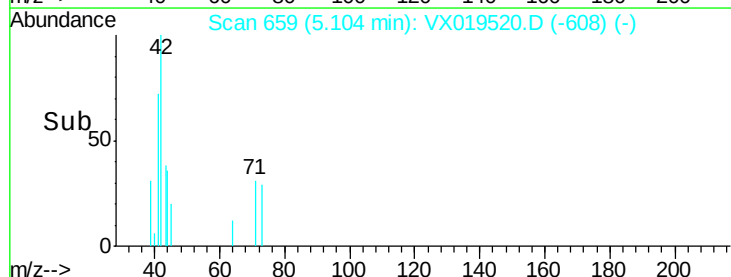
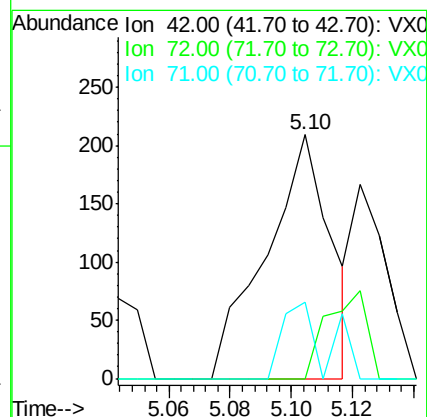
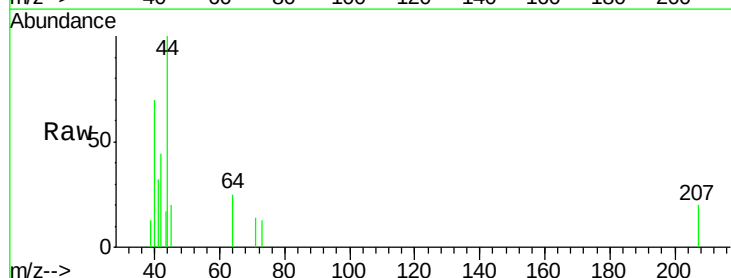
Tgt Ion: 42 Resp: 306

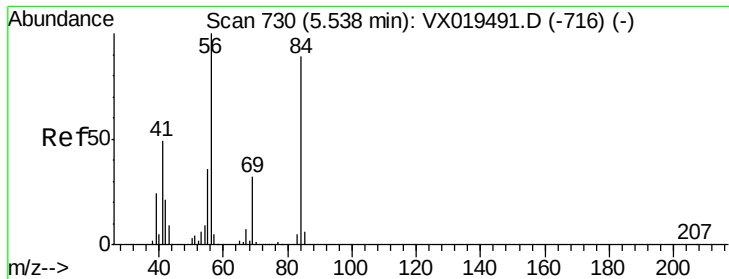
Ion Ratio Lower Upper

42 100

72 22.2 42.6 63.8#

71 21.2 39.0 58.6#





#31

Cyclohexane

Concen: 1.212 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampled :

1555

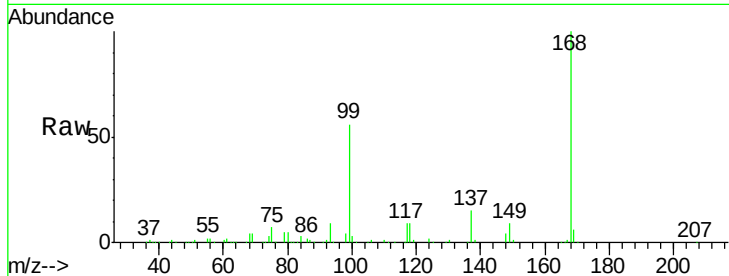
Tot Ion: 56 Resp: 6264

Ion Ratio Lower Upper

56 100

69 180.8 25.5 38.3#

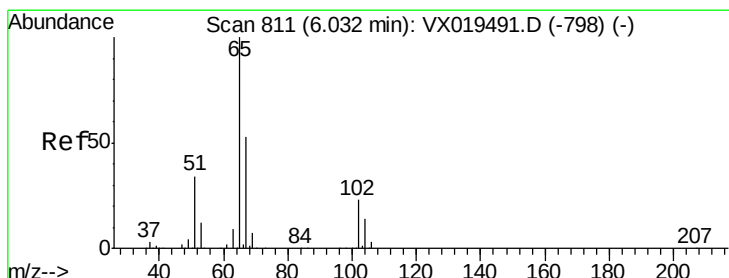
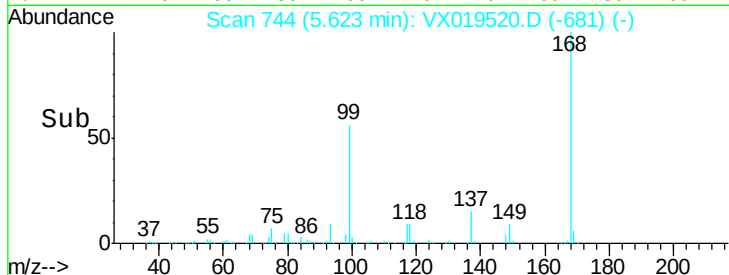
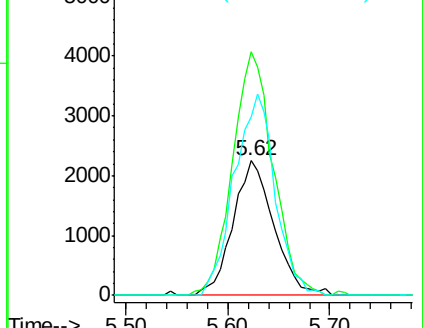
84 132.7 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.311 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019520.D

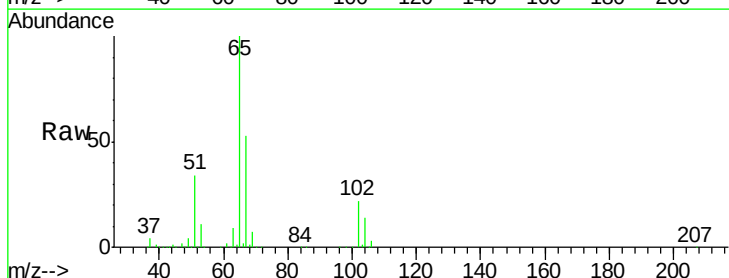
Acq: 21 Nov 2020 02:23

Tgt Ion: 65 Resp: 183961

Ion Ratio Lower Upper

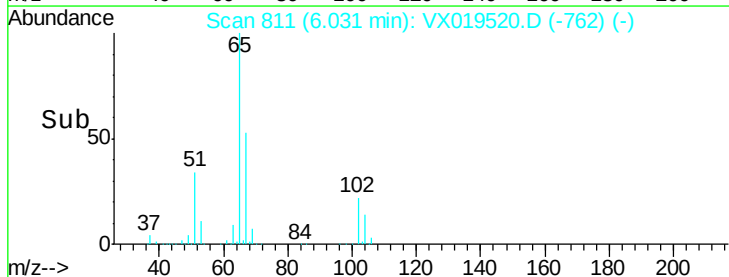
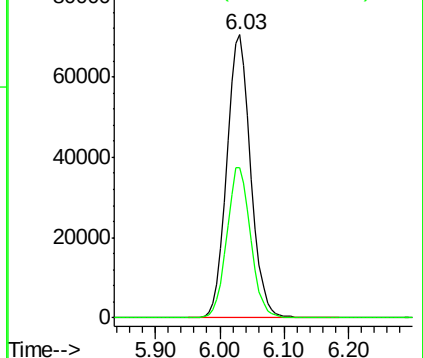
65 100

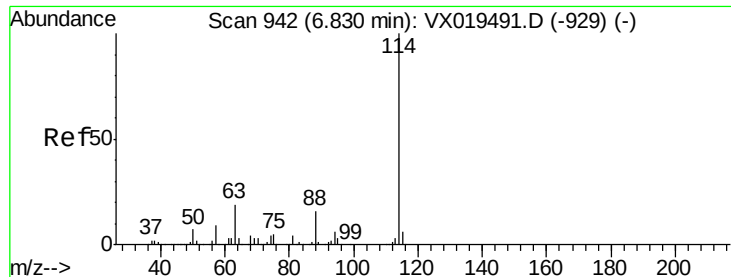
67 53.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampled :

1555

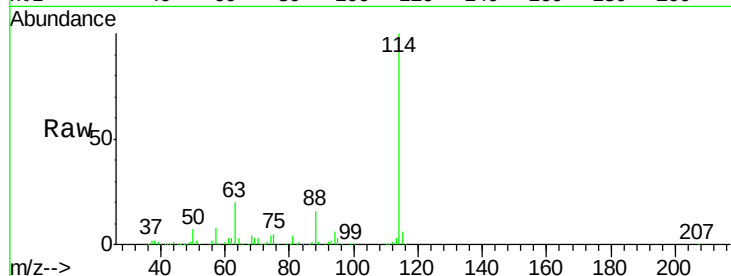
Tot Ion:114 Resp: 498201

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.8

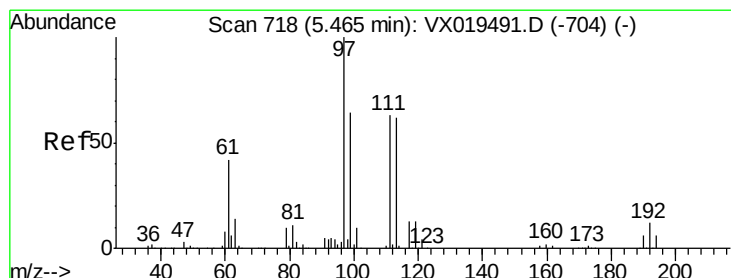
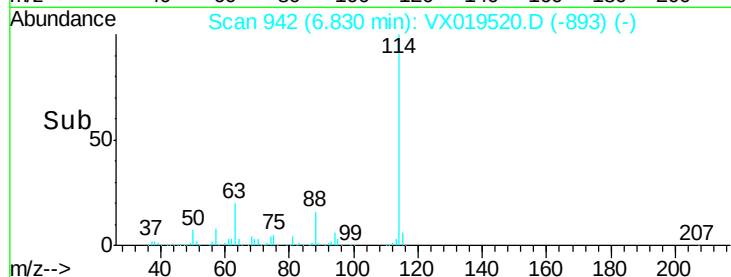
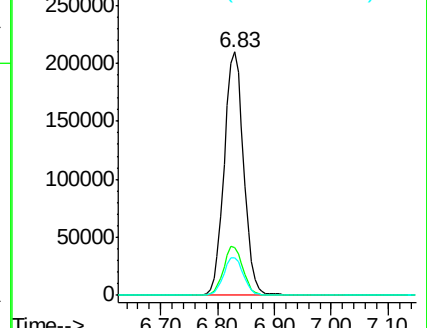
88 15.6 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.160 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

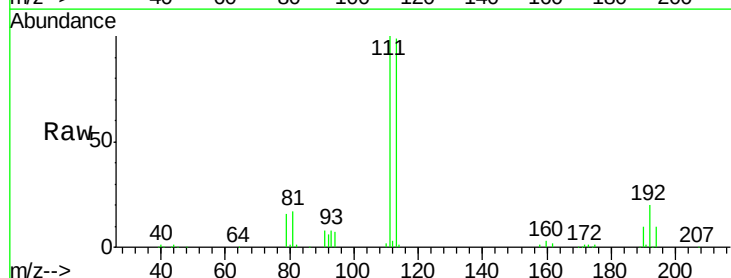
Tgt Ion:113 Resp: 147480

Ion Ratio Lower Upper

113 100

111 101.0 81.5 122.3

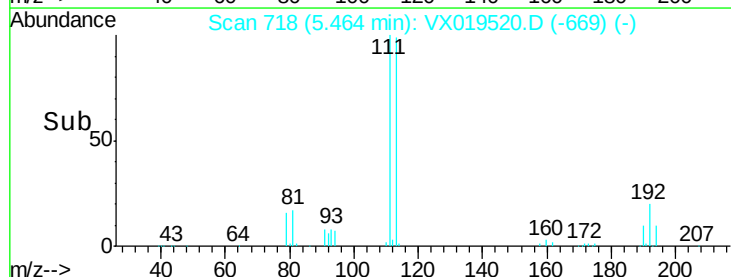
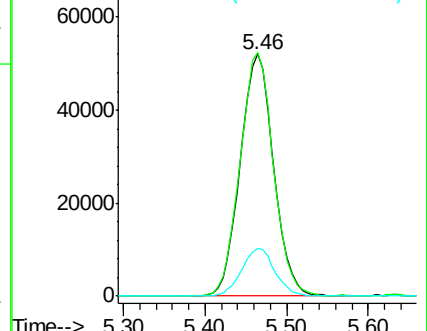
192 19.8 16.2 24.2

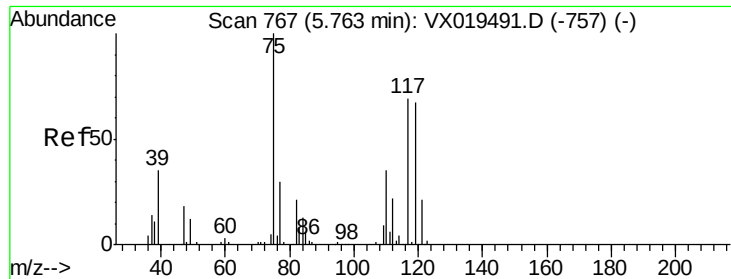


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

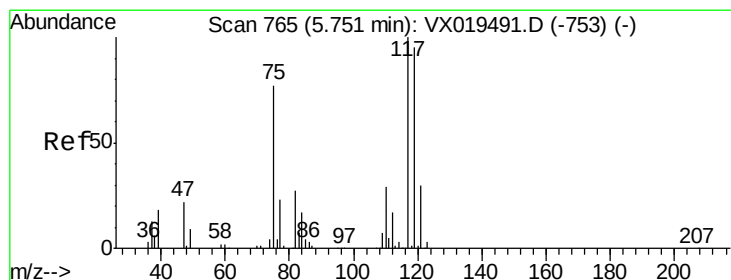
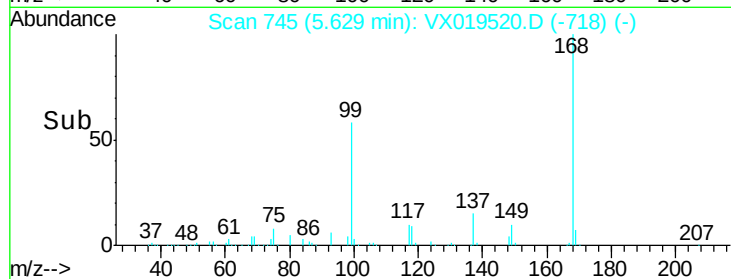
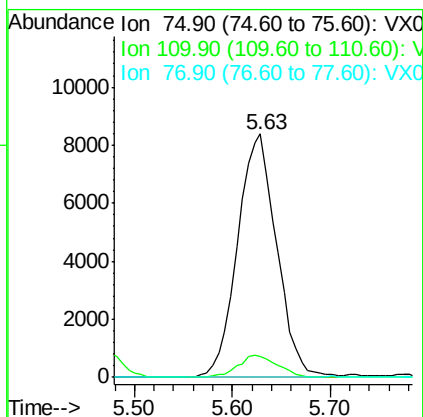
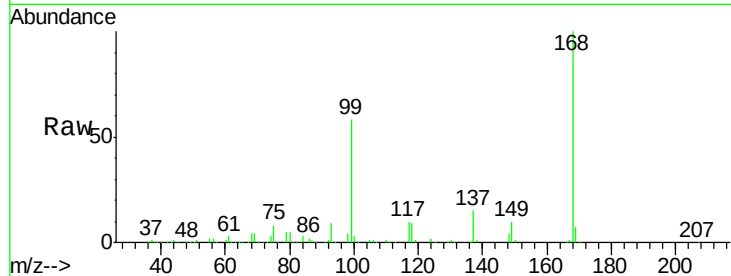




#36
 1,1-Dichloropropene
 Concen: 4.990 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019520.D
 Acq: 21 Nov 2020 02:23

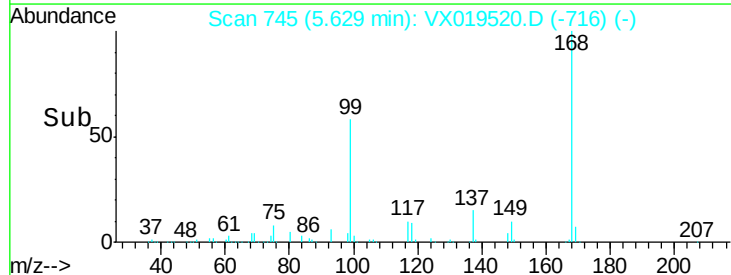
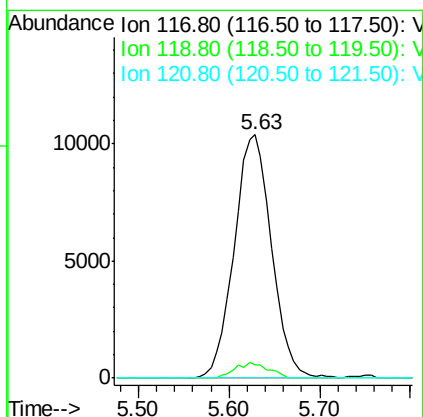
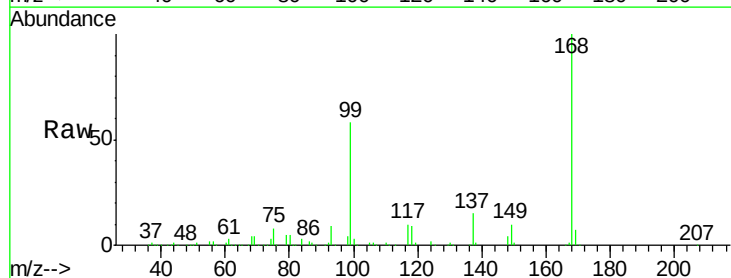
Instrument :
 MSVOA_X
 ClientSampleId :
 1555

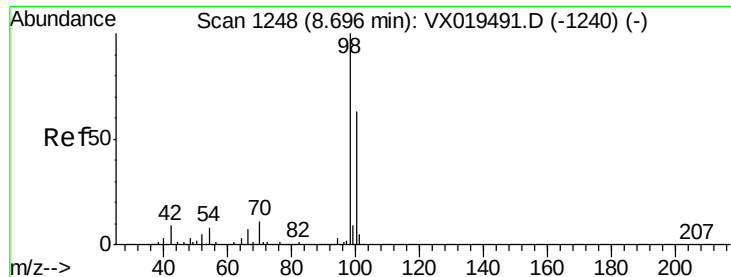
Tot Ion: 75 Resp: 23306
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.1 54.3#
 77 0.0 24.2 36.4#



#38
 Carbon Tetrachloride
 Concen: 6.549 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019520.D
 Acq: 21 Nov 2020 02:23

Tgt Ion: 117 Resp: 29609
 Ion Ratio Lower Upper
 117 100
 119 5.3 75.9 113.9#
 121 0.0 24.0 36.0#

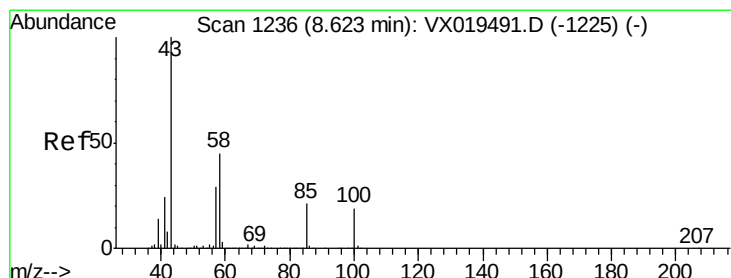
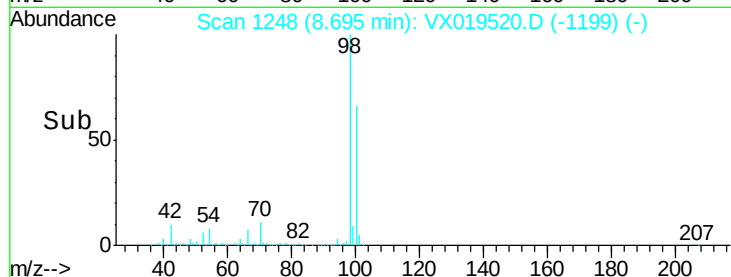
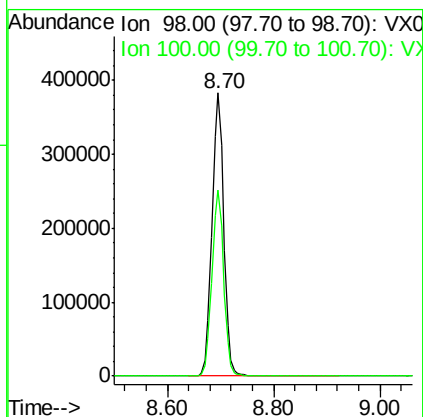
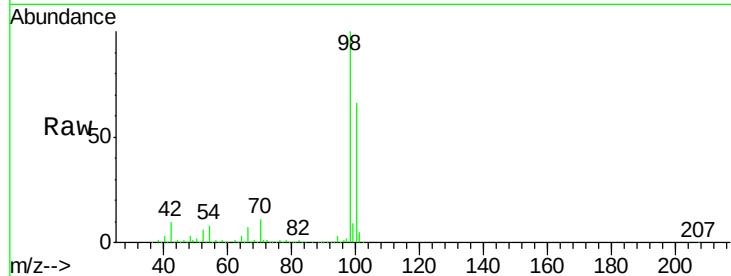




#50
Toluene-d8
Concen: 48.089 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

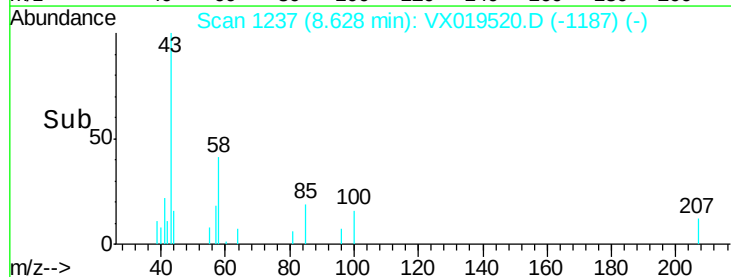
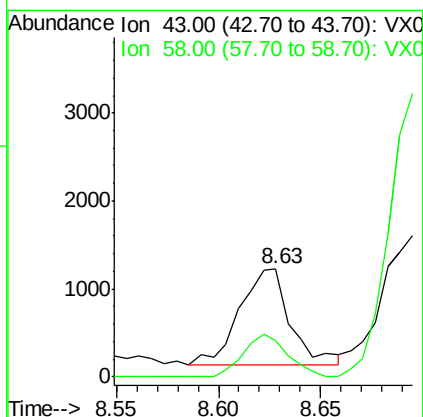
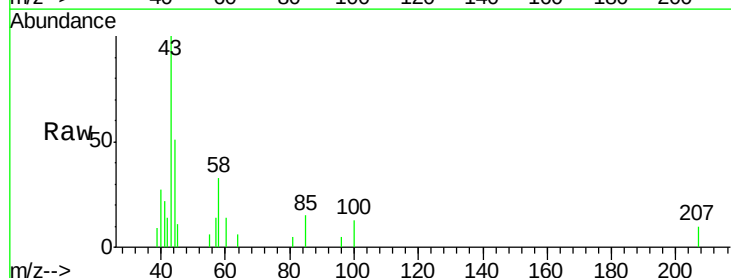
Instrument :
MSVOA_X
ClientSampled :
1555

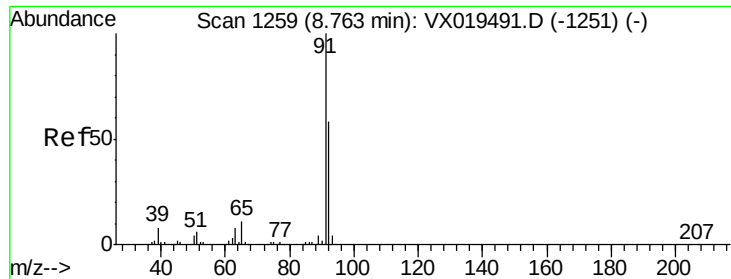
Tot Ion: 98 Resp: 584383
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 0.444 ug/l
RT: 8.63 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

Tgt Ion: 43 Resp: 1909
Ion Ratio Lower Upper
43 100
58 38.0 35.1 52.7





#52

Toluene

Concen: 1.626 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampleId :

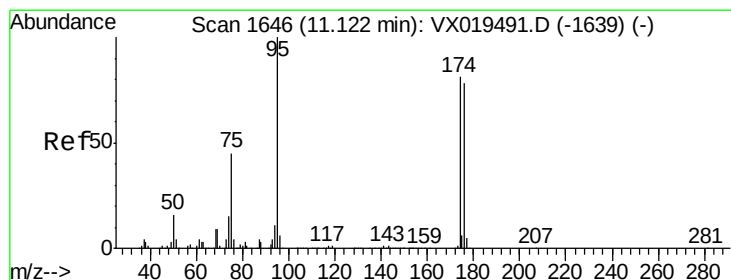
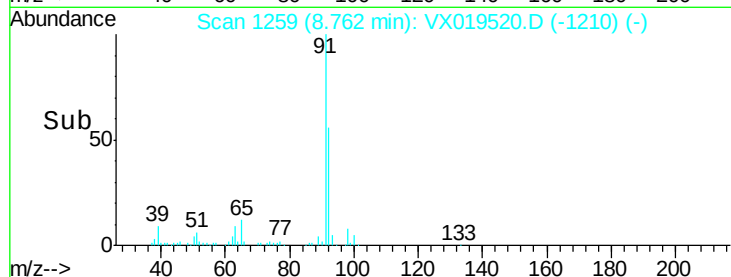
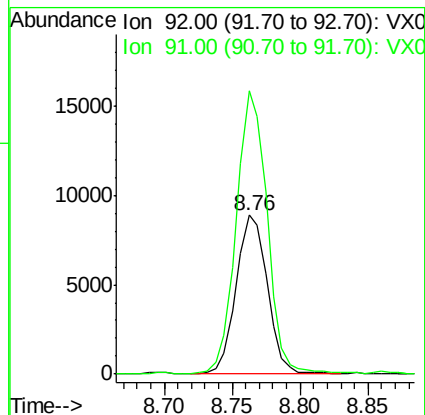
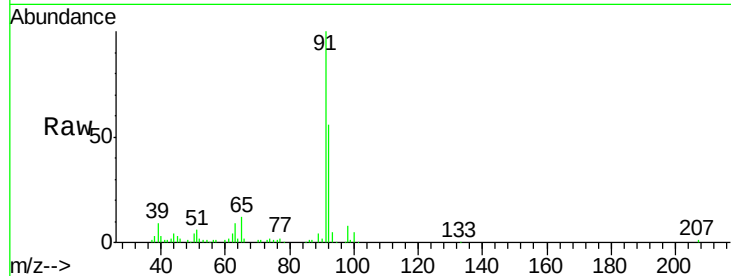
1555

Tot Ion: 92 Resp: 14274

Ion Ratio Lower Upper

92 100

91 176.2 138.1 207.1



#62

4-Bromofluorobenzene

Concen: 44.898 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

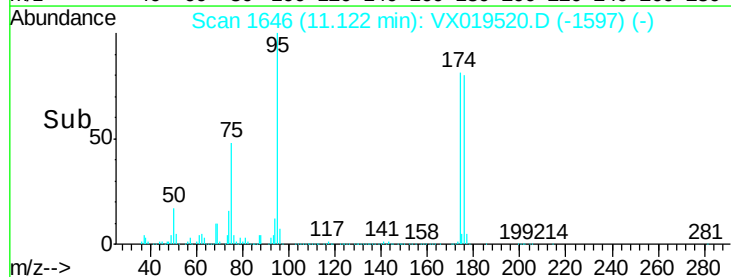
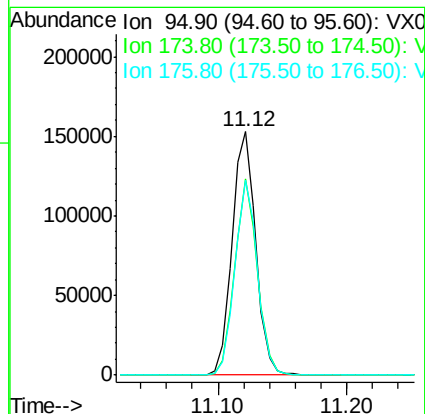
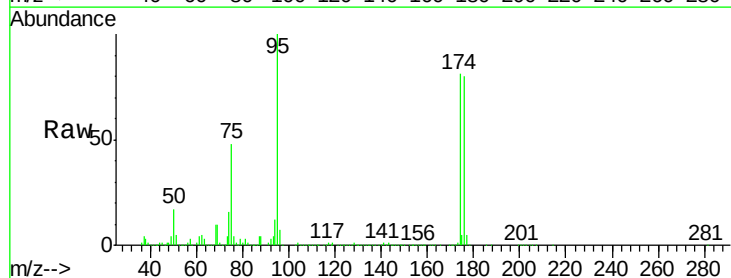
Tgt Ion: 95 Resp: 196300

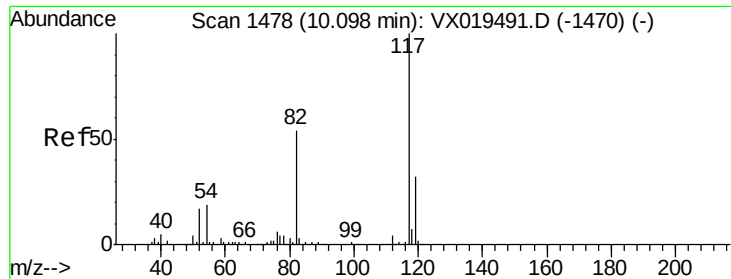
Ion Ratio Lower Upper

95 100

174 77.1 0.0 156.2

176 76.7 0.0 151.4

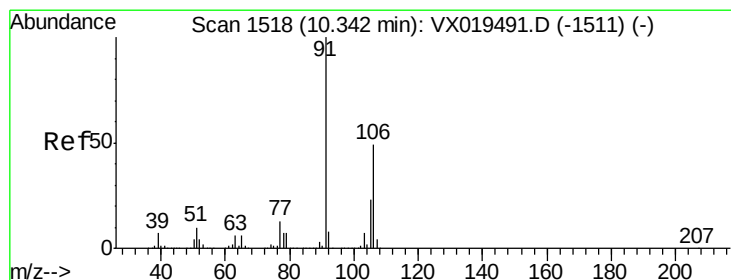
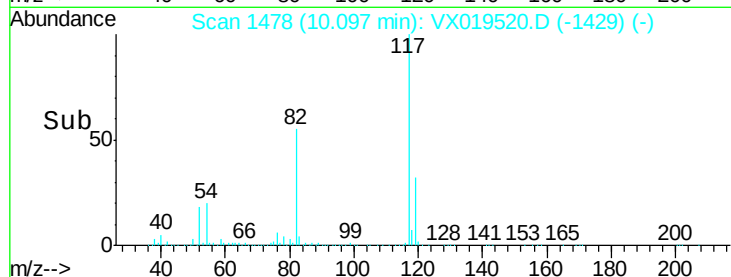
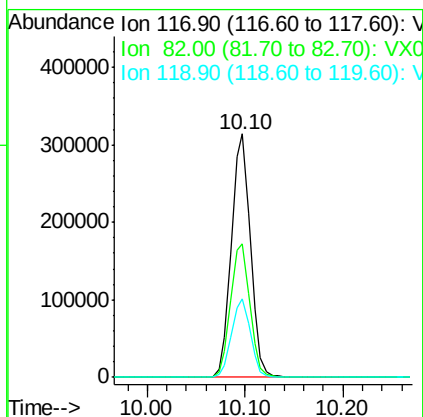
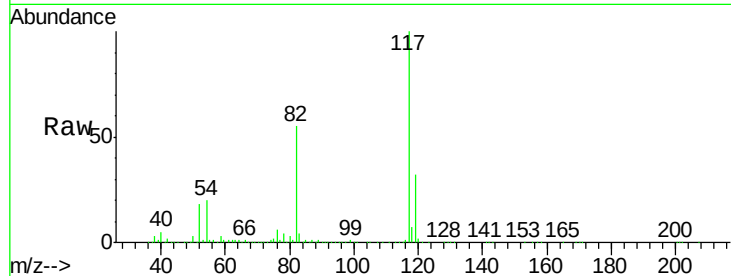




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

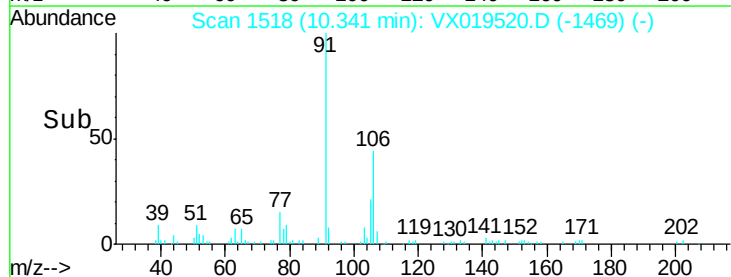
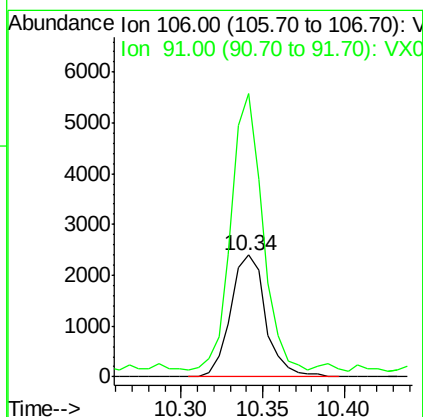
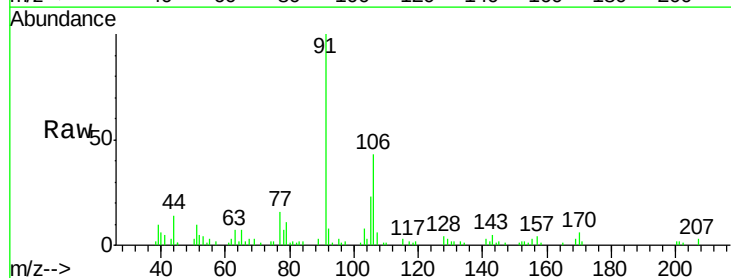
Instrument :
MSVOA_X
ClientSampled :
1555

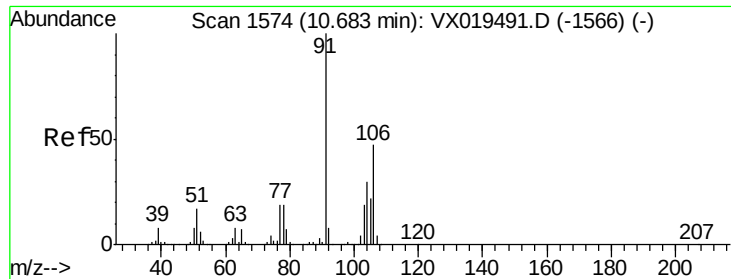
Tot Ion:117 Resp: 426215
Ion Ratio Lower Upper
117 100
82 54.9 43.0 64.4
119 32.2 25.6 38.4



#68
m/p-Xylenes
Concen: 0.625 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

Tgt Ion:106 Resp: 3575
Ion Ratio Lower Upper
106 100
91 204.6 163.3 244.9

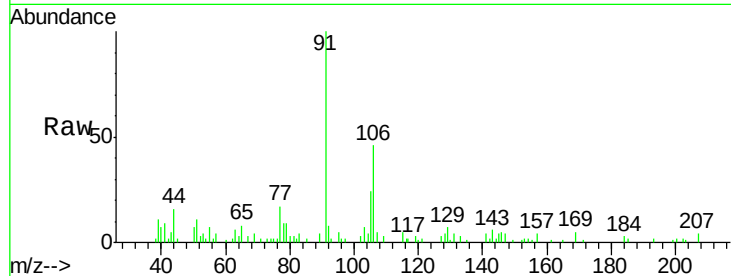




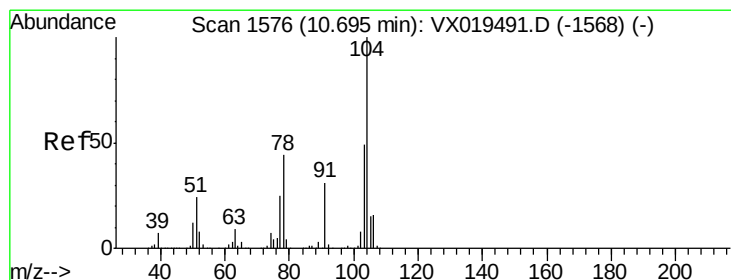
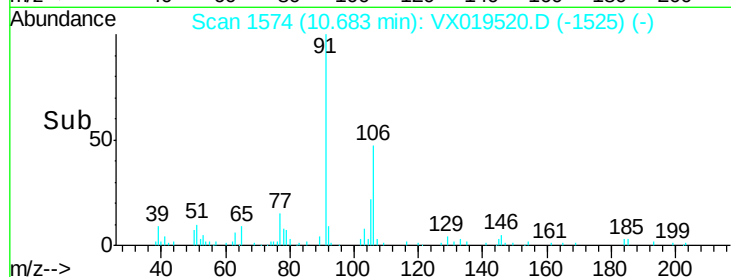
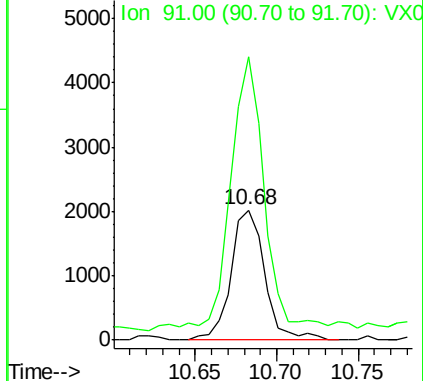
#69
o-Xylene
Concen: 0.534 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

Instrument :
MSVOA_X
ClientSampled :
1555

Tot Ion:106 Resp: 2922
Ion Ratio Lower Upper
106 100
91 204.8 108.0 324.0

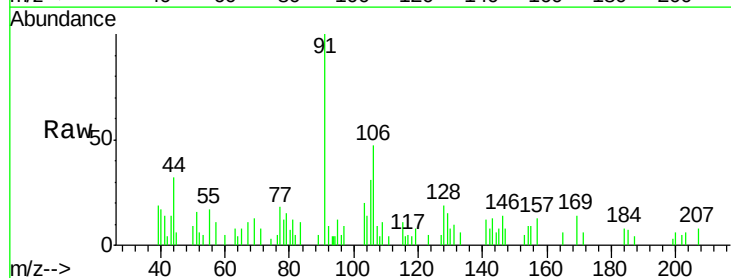


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

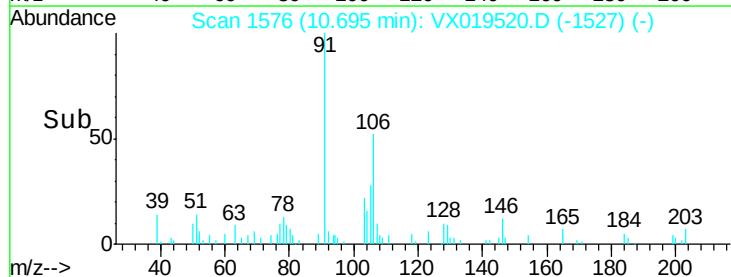
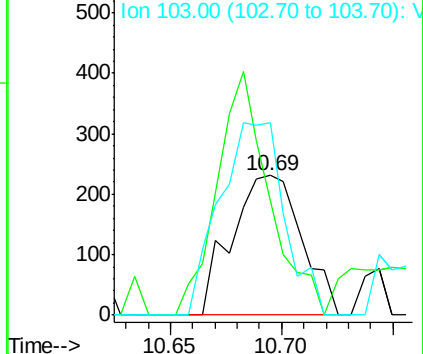


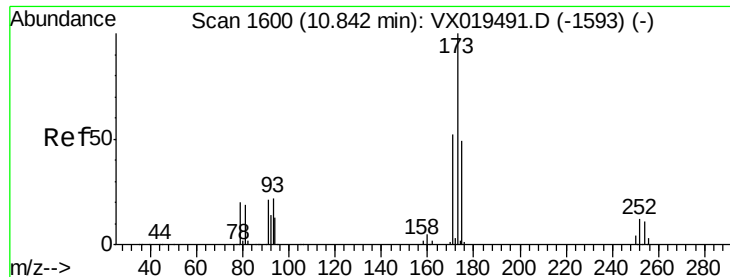
#70
Styrene
Concen: 1.694 ug/l
RT: 10.69 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

Tgt Ion:104 Resp: 505
Ion Ratio Lower Upper
104 100
78 129.7 39.5 59.3#
103 128.3 43.6 65.4#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 3.655 ug/l

RT: 10.85 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampleId :

1555

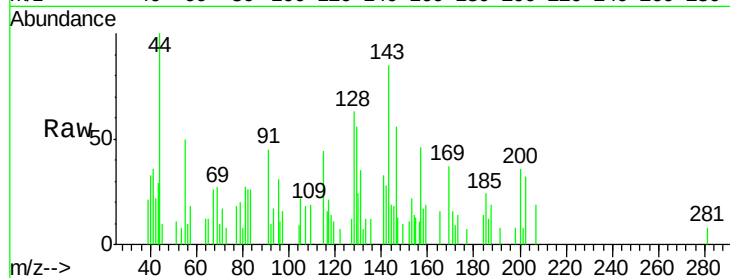
Tot Ion:173 Resp: 153

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.8#

254 0.0 0.1 0.1#



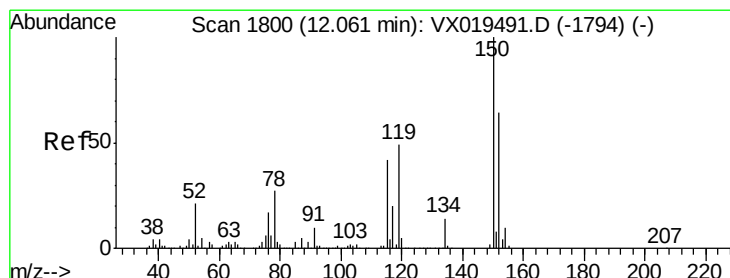
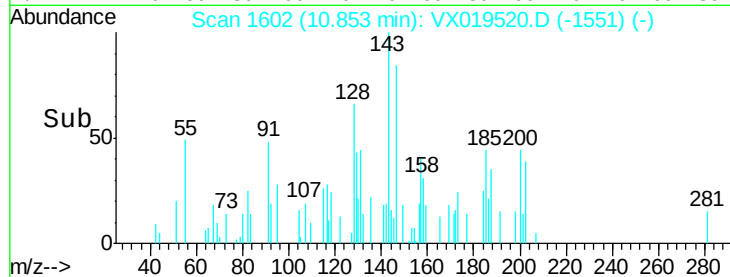
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

10.85

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

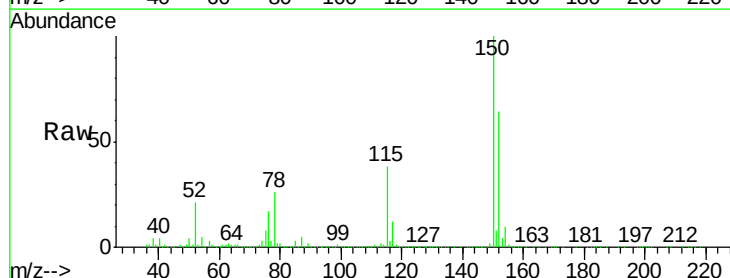
Tgt Ion:152 Resp: 183012

Ion Ratio Lower Upper

152 100

115 60.6 41.8 125.4

150 155.9 0.0 348.2



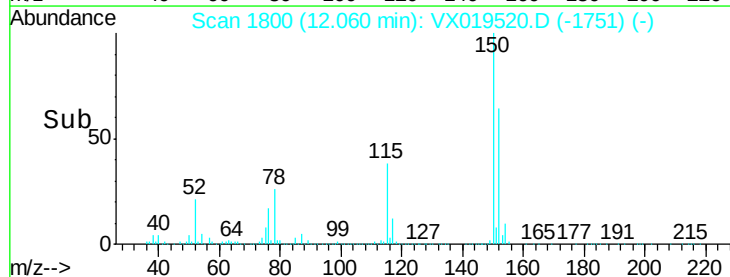
Abundance Ion 151.90 (151.60 to 152.60): V

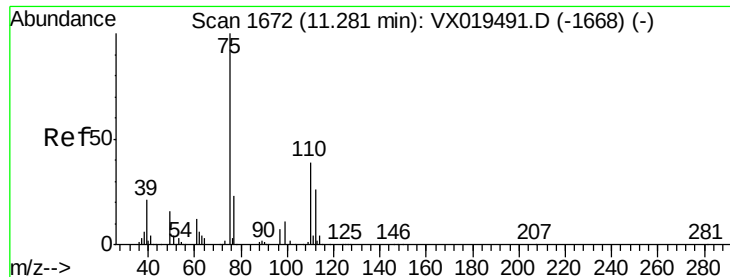
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

12.06

Time-->





#76

1,2,3-Trichloropropane

Concen: 24.148 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampled :

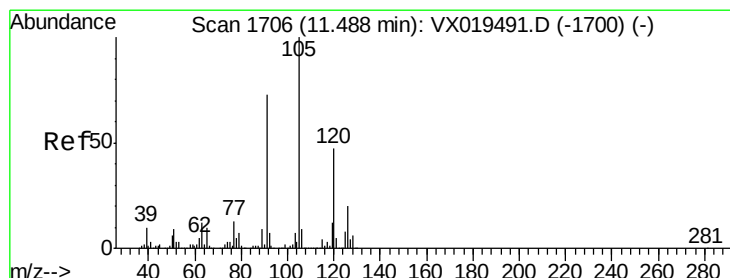
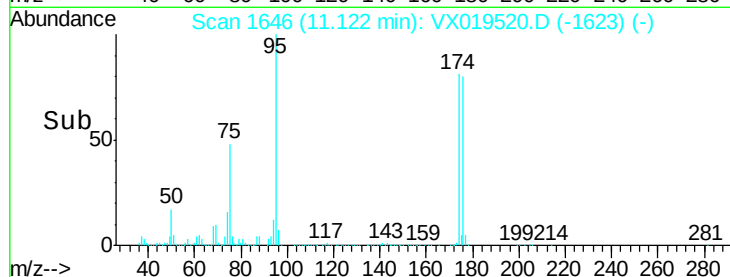
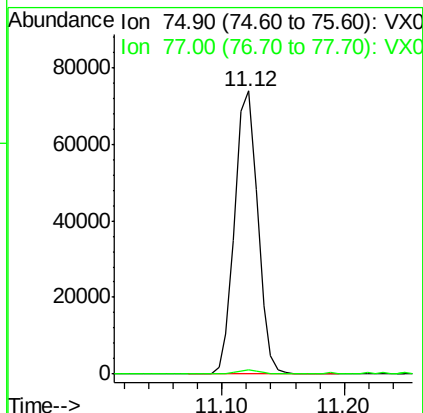
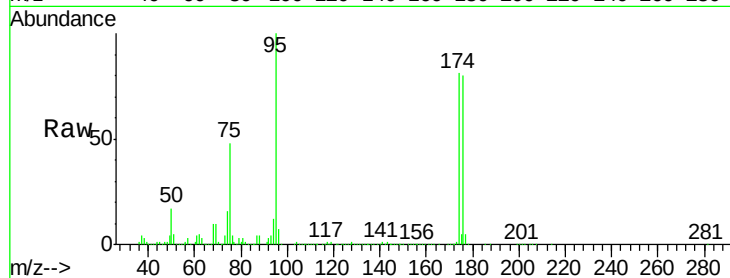
1555

Tot Ion: 75 Resp: 96444

Ion Ratio Lower Upper

75 100

77 1.3 20.0 60.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.484 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019520.D

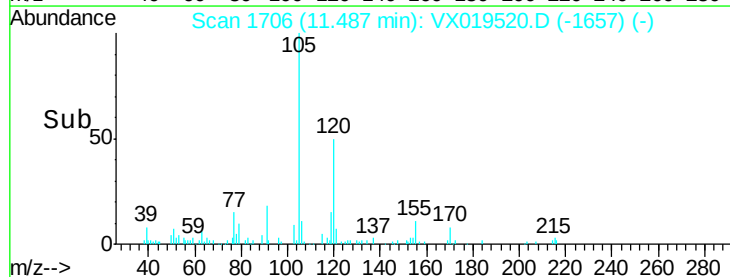
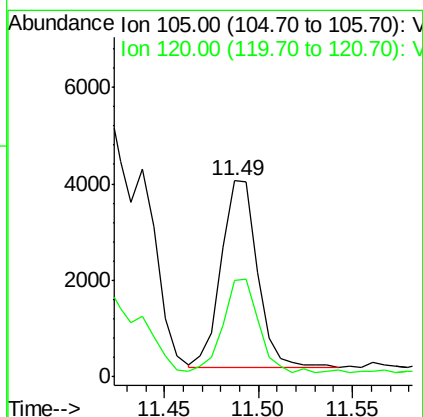
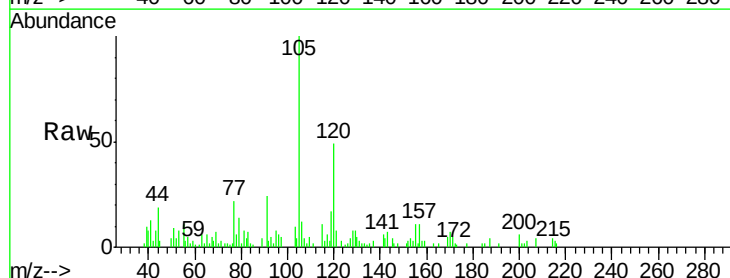
Acq: 21 Nov 2020 02:23

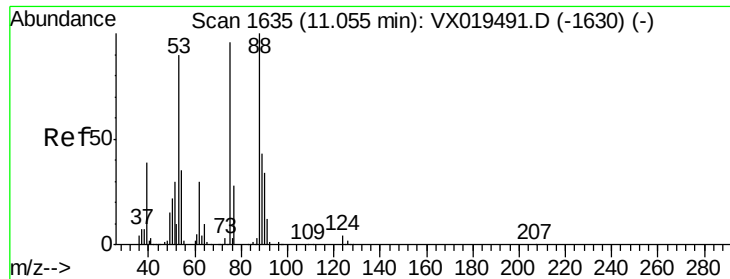
Tgt Ion: 105 Resp: 5142

Ion Ratio Lower Upper

105 100

120 49.9 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 63.932 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA_X

ClientSampleId :

1555

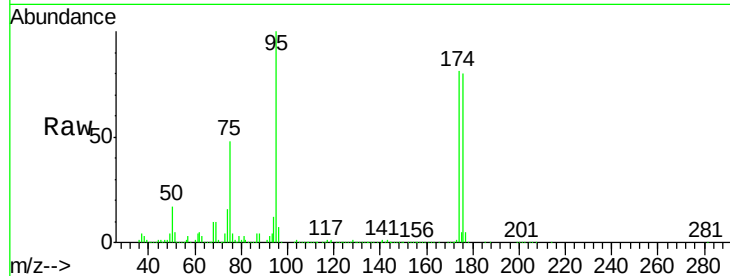
Tot Ion: 75 Resp: 96444

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

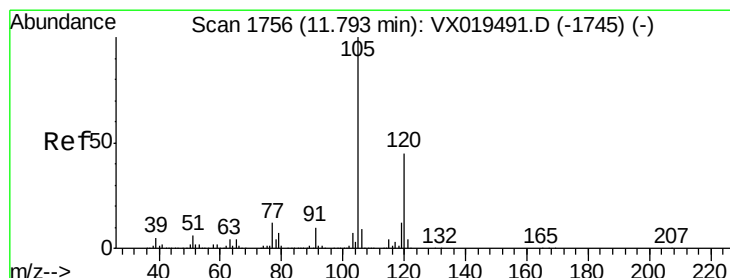
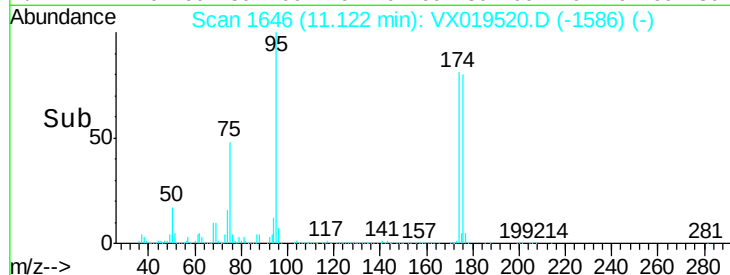
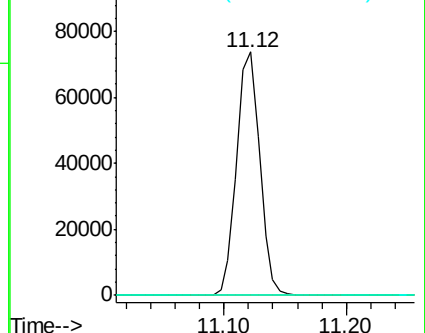
89 0.0 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 1.989 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019520.D

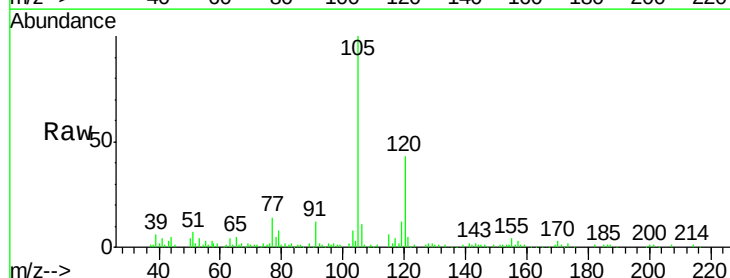
Acq: 21 Nov 2020 02:23

Tgt Ion:105 Resp: 21371

Ion Ratio Lower Upper

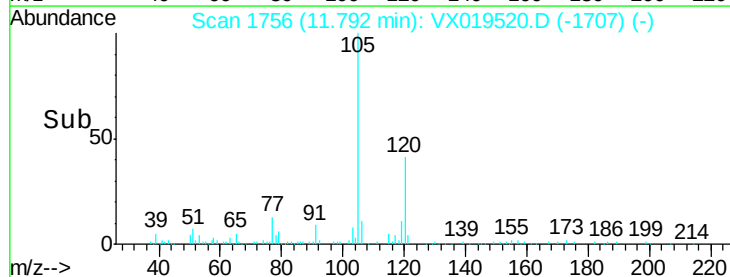
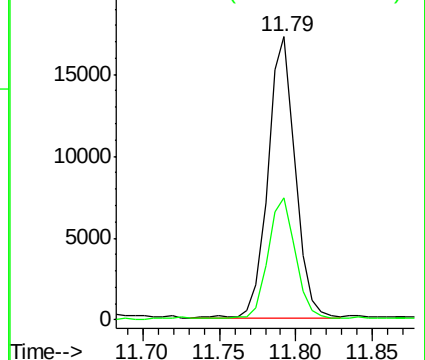
105 100

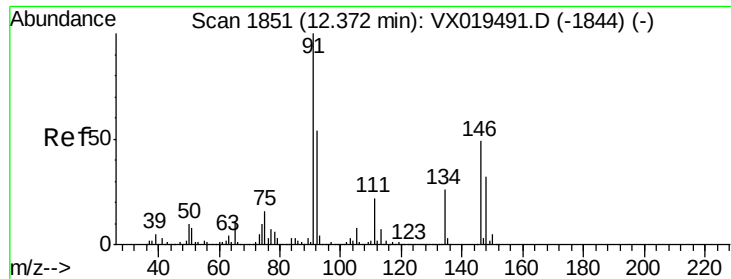
120 43.3 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

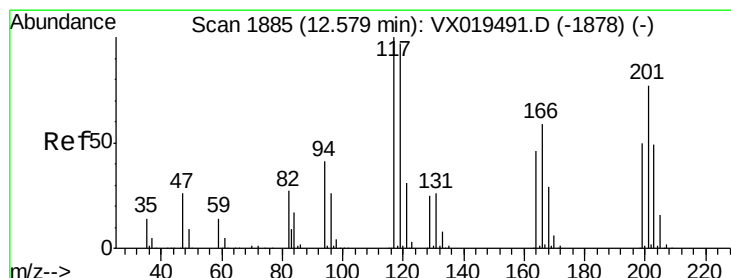
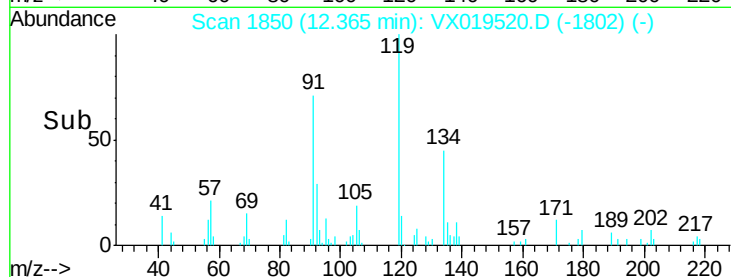
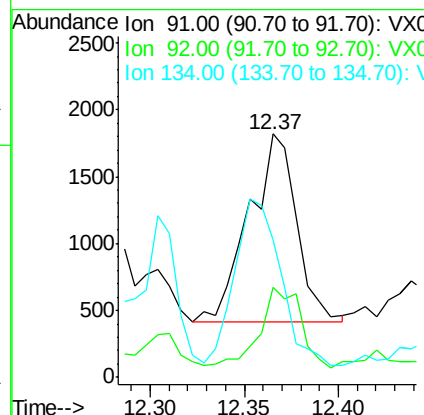
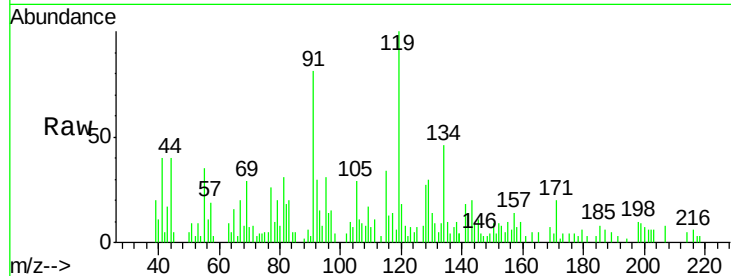




#89
n-Butylbenzene
Concen: 0.244 ug/l
RT: 12.37 min Scan# 1850
Delta R.T. -0.01 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

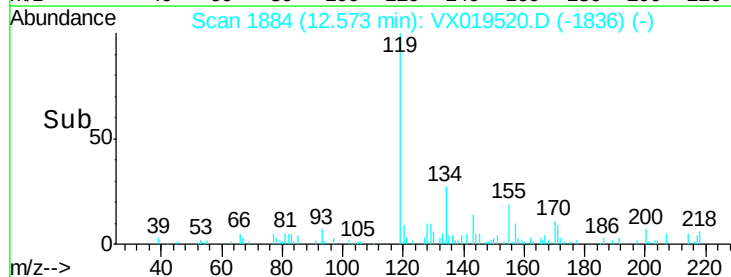
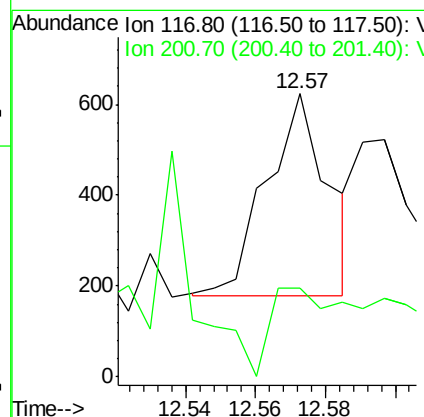
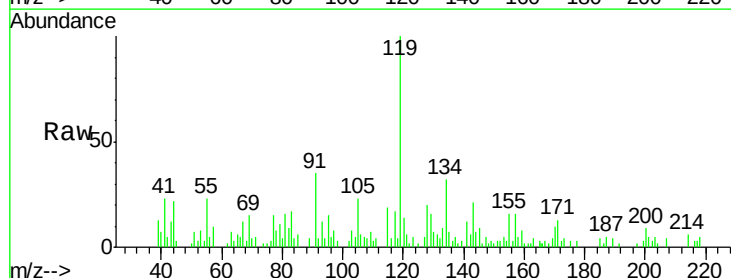
Instrument :
MSVOA_X
ClientSampled :
1555

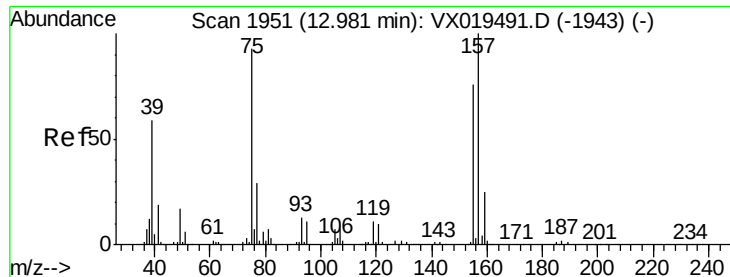
Tot Ion: 91 Resp: 2448
Ion Ratio Lower Upper
91 100
92 43.6 26.9 80.6
134 86.6 12.9 38.6#



#90
Hexachloroethane
Concen: 0.294 ug/l
RT: 12.57 min Scan# 1884
Delta R.T. -0.01 min
Lab File: VX019520.D
Acq: 21 Nov 2020 02:23

Tgt Ion: 117 Resp: 546
Ion Ratio Lower Upper
117 100
201 57.1 39.4 118.2

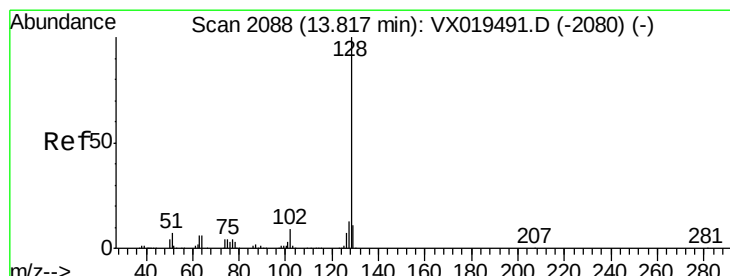
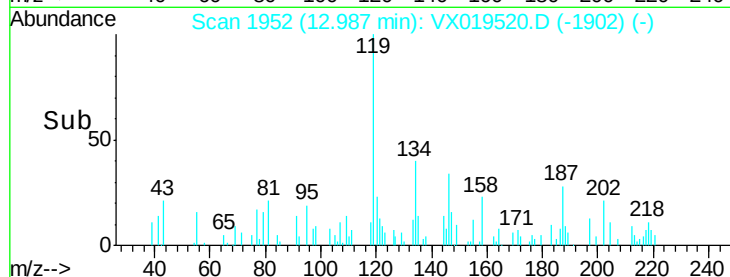
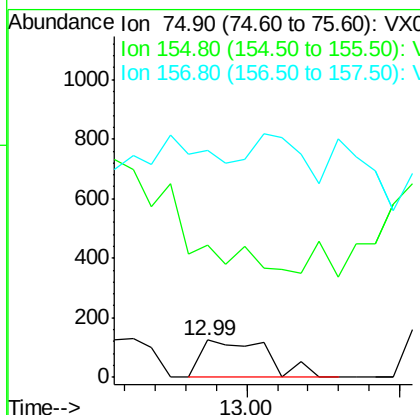
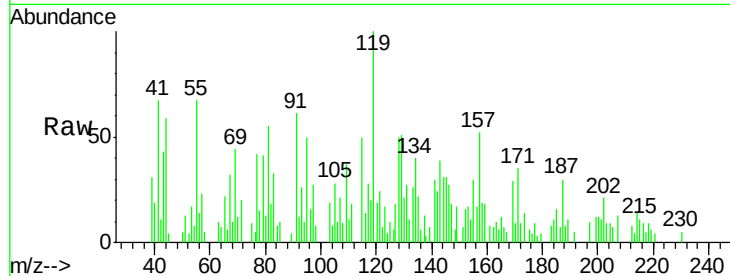




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.201 ug/l
 RT: 12.99 min Scan# 1952
 Delta R.T. 0.01 min
 Lab File: VX019520.D
 Acq: 21 Nov 2020 02:23

Instrument :
 MSVOA_X
 ClientSampled :
 1555

Tot Ion: 75 Resp: 186
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.6 130.9#
 157 0.0 57.0 170.8#



#95
 Naphthalene
 Concen: 2.491 ug/l
 RT: 13.82 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VX019520.D
 Acq: 21 Nov 2020 02:23

Tgt Ion: 128 Resp: 4412
 Ion Ratio Lower Upper
 128 100
 127 10.0 10.3 15.5#
 129 13.0 8.7 13.1

