

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012868.D
 Acq On : 08 Oct 2019 04:03
 Operator : JC/SP
 Sample : K5216-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 08 11:17:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	180448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	309774	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	109278	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	119054	45.31	ug/l	0.00
Spiked Amount			Recovery	=	90.62%	
35) Dibromofluoromethane	5.49	113	92001	49.87	ug/l	0.00
Spiked Amount			Recovery	=	99.74%	
50) Toluene-d8	8.71	98	361702	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
62) 4-Bromofluorobenzene	11.14	95	130259	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	

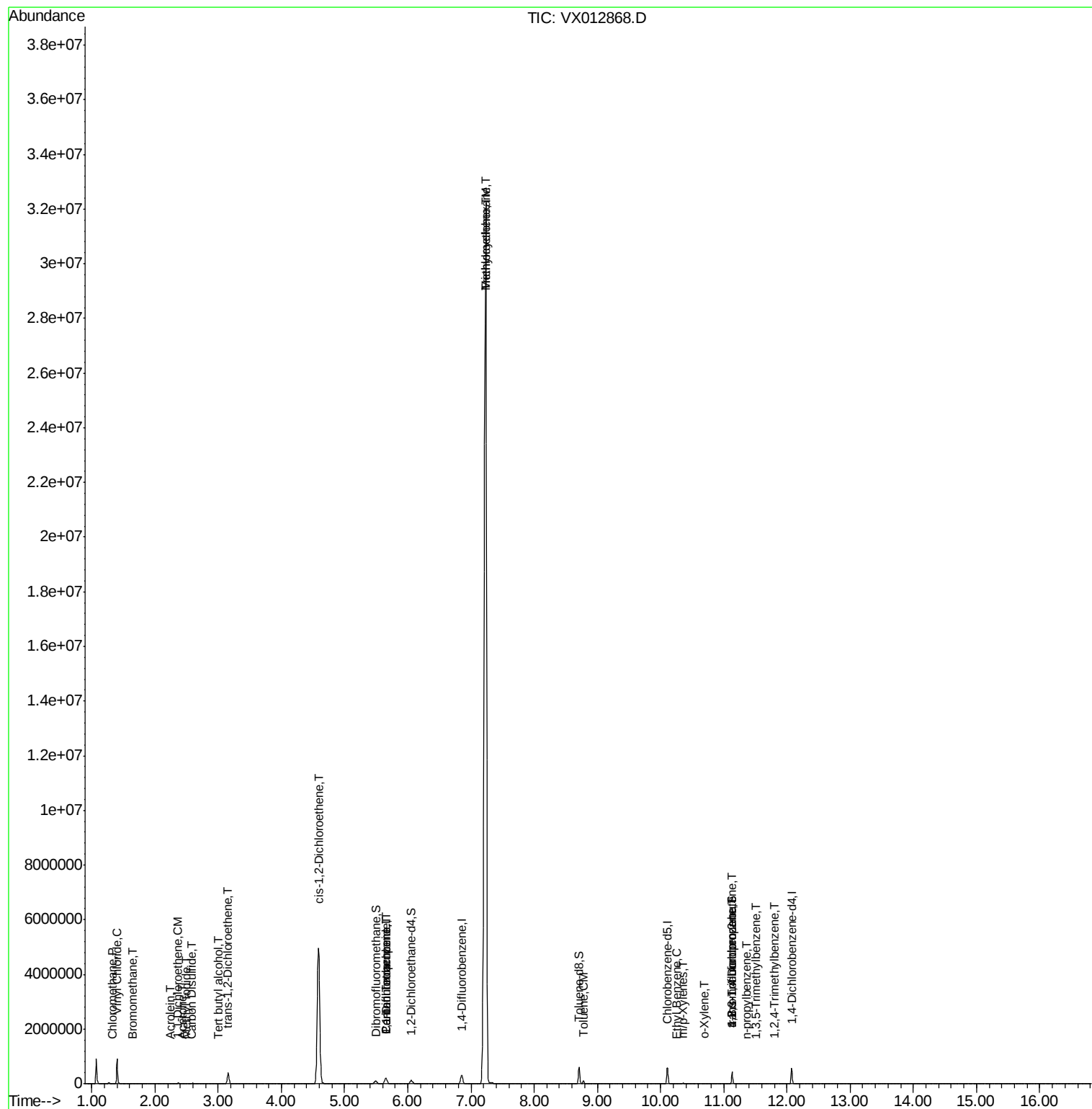
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1758	0.754	ug/l	97
4) Vinyl Chloride	1.40	62	549932	237.352	ug/l	95
5) Bromomethane	1.65	94	339	0.372	ug/l #	61
10) Methyl Iodide	2.50	142	44	4.972	ug/l #	35
11) Tert butyl alcohol	3.01	59	3282	5.000	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	7847	4.045	ug/l	97
13) Acrolein	2.25	56	72	10.422	ug/l #	1
16) Acetone	2.43	43	2082	1.496	ug/l	94
17) Carbon Disulfide	2.57	76	1602	0.295	ug/l #	75
21) trans-1,2-Dichloroethene	3.16	96	163767	76.192	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	3230439	1295.293	ug/l	82
36) 1,1-Dichloropropene	5.65	75	14662	4.910	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18960	6.251	ug/l #	16
39) Methylcyclohexane	7.23	83	200412	55.753	ug/l #	1
44) Trichloroethene	7.23	130	15379913	6847.909	ug/l	92
52) Toluene	8.78	92	38222	6.922	ug/l	100
67) Ethyl Benzene	10.25	91	5842	0.581	ug/l	94
68) m/p-Xylenes	10.36	106	5208	1.382	ug/l	85
69) o-Xylene	10.70	106	2409	0.661	ug/l	85
76) 1,2,3-Trichloropropane	11.14	75	64109	22.178	ug/l #	38
78) n-propylbenzene	11.35	91	2411	0.241	ug/l	98
80) 1,3,5-Trimethylbenzene	11.50	105	3218	0.431	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	64109	63.557	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.81	105	6062	0.805	ug/l	98

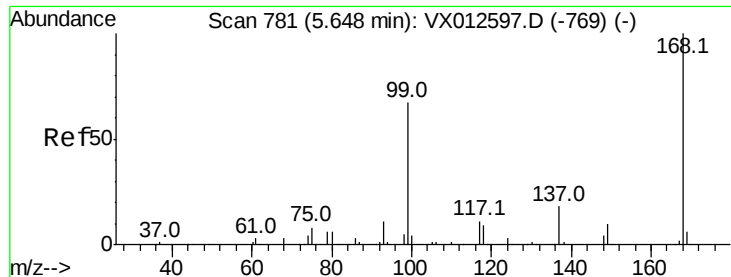
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Oct 08 11:17:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

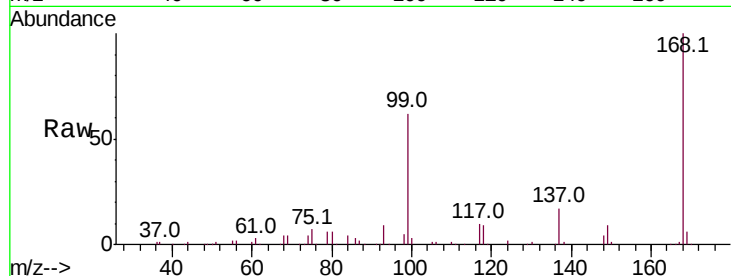
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 180448

Ion Ratio Lower Upper

168 100

99 62.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

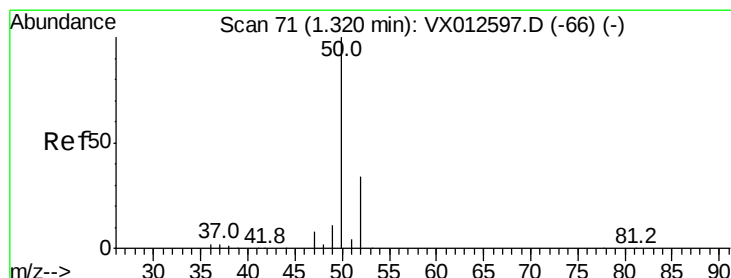
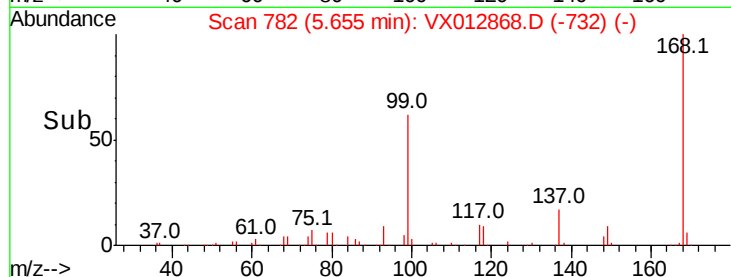
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.754 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012868.D

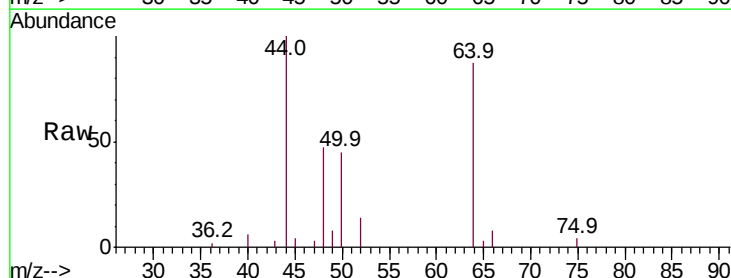
Acq: 08 Oct 2019 04:03

Tgt Ion: 50 Resp: 1758

Ion Ratio Lower Upper

50 100

52 30.5 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

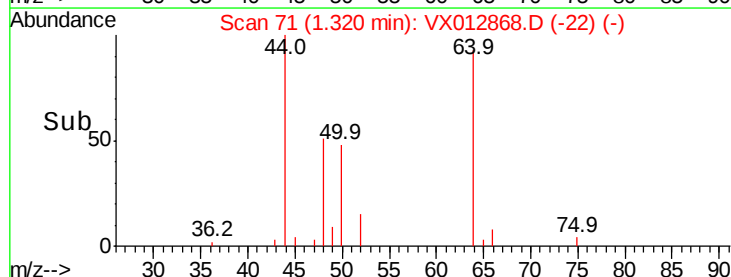
3000

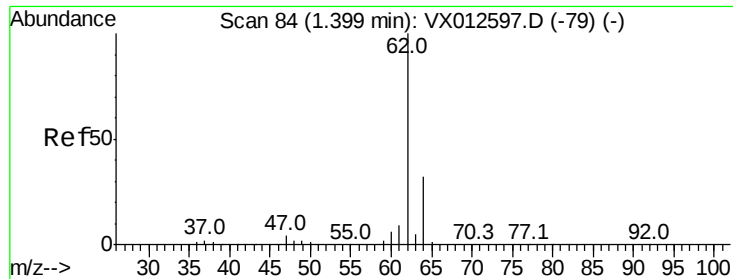
2000

1000

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 237.352 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

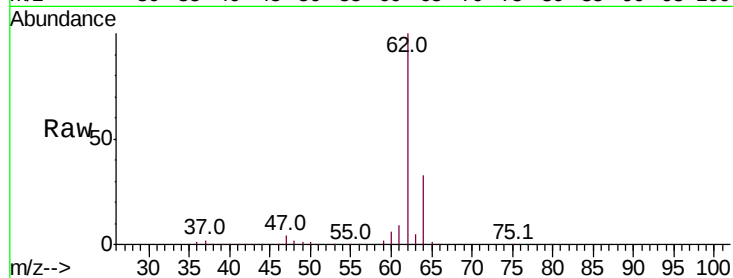
ClientSampled :

Tot Ion: 62 Resp: 549932

Ion Ratio Lower Upper

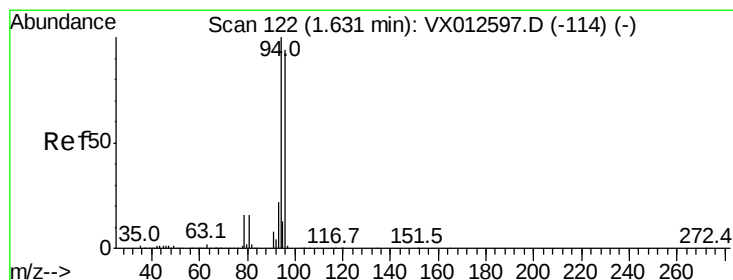
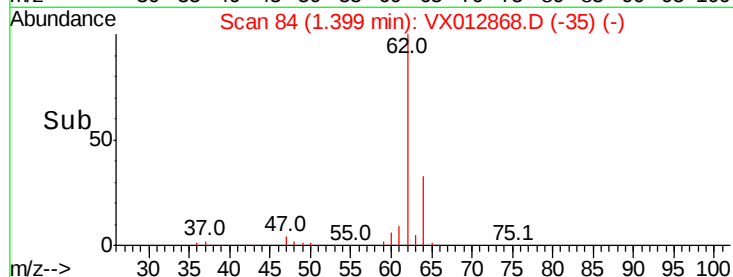
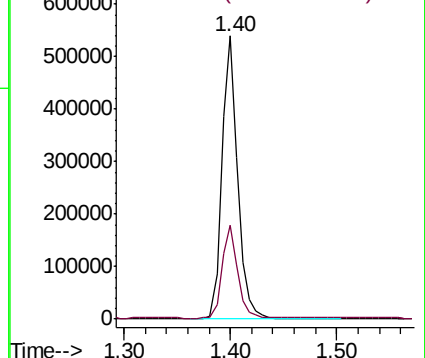
62 100

64 32.7 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.372 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012868.D

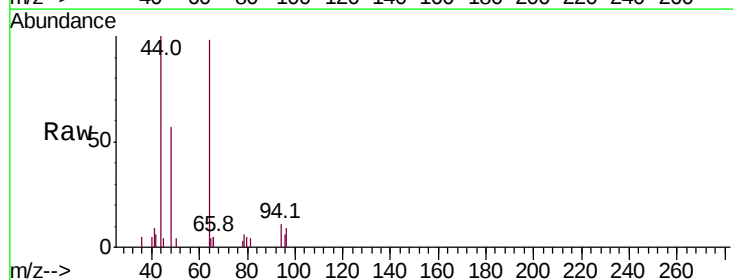
Acq: 08 Oct 2019 04:03

Tgt Ion: 94 Resp: 339

Ion Ratio Lower Upper

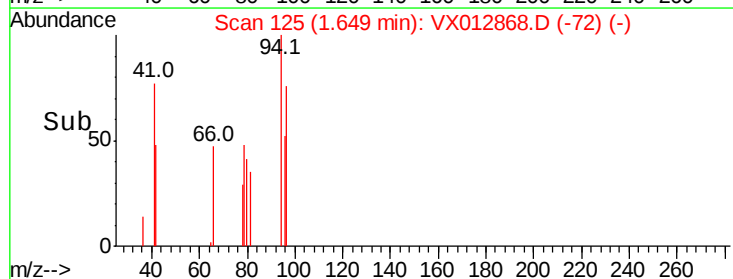
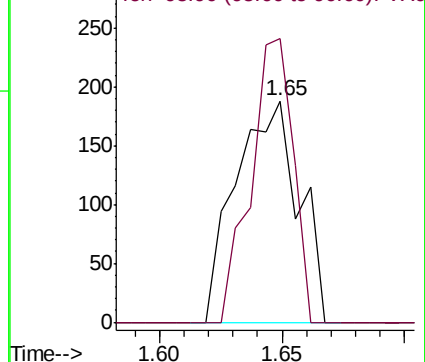
94 100

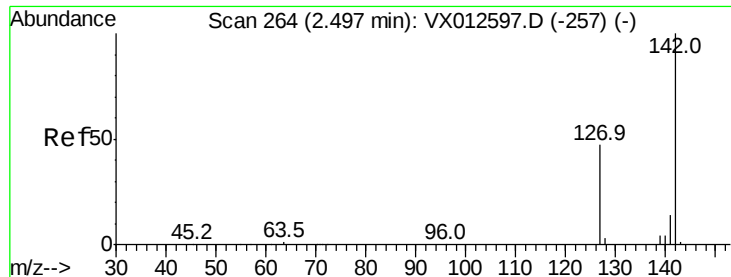
96 128.2 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

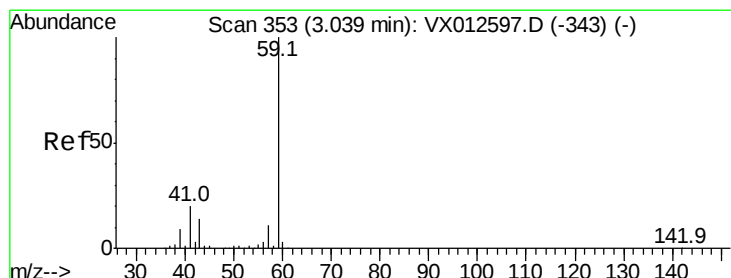
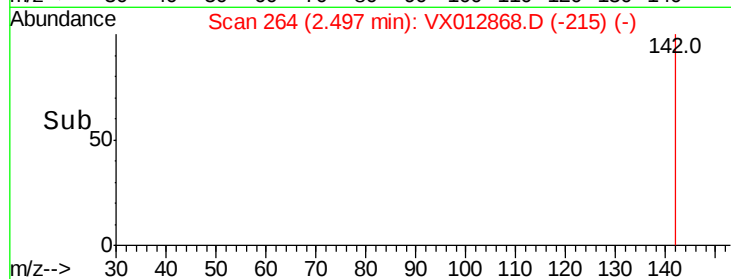
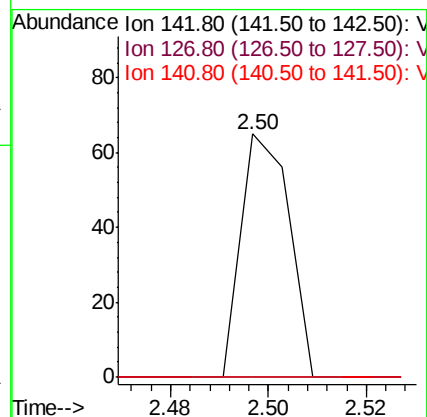
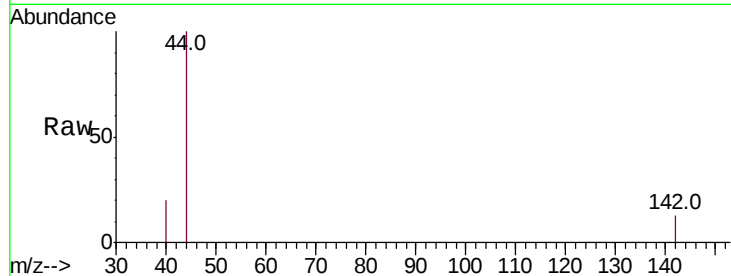




#10
Methvl Iodide
Concen: 4.972 ug/l
RT: 2.50 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

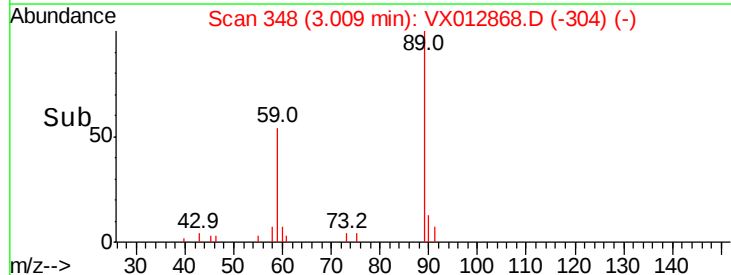
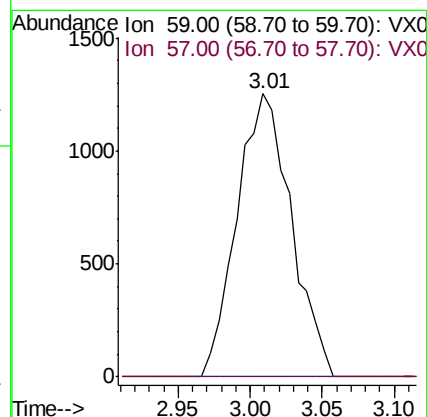
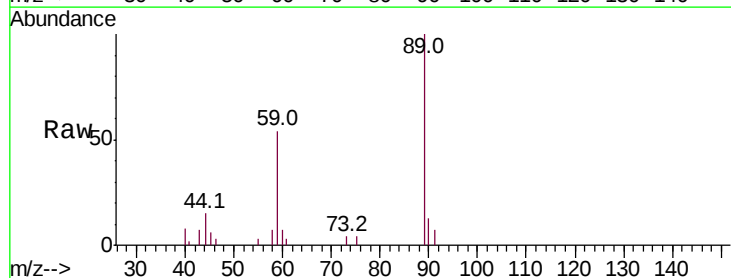
Instrument :
MSVOA_X
ClientSampleId :

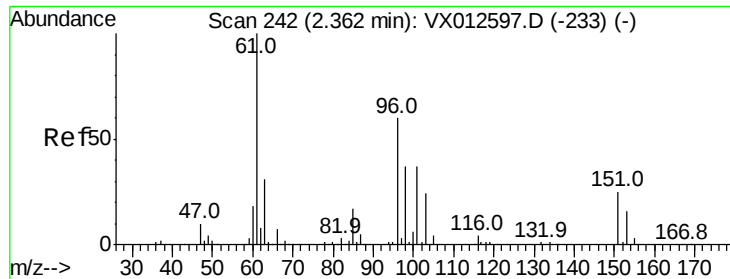
Tot Ion:142 Resp: 44
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 5.000 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

Tgt Ion: 59 Resp: 3282
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 4.045 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :
MSVOA_X
ClientSampled :

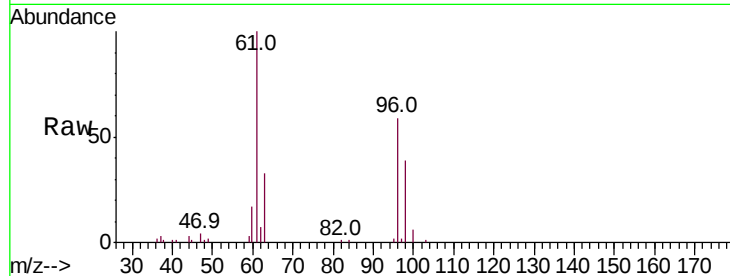
Tot Ion: 96 Resp: 7847

Ion Ratio Lower Upper

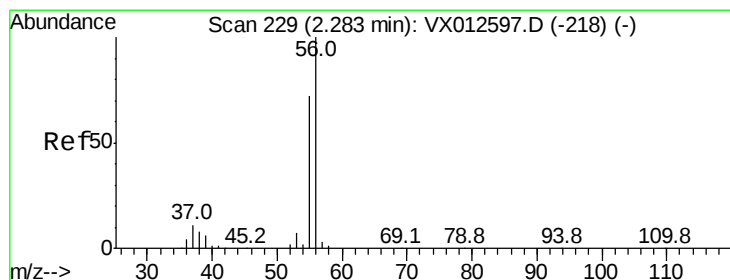
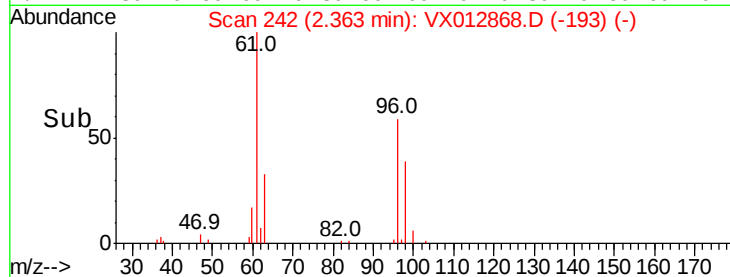
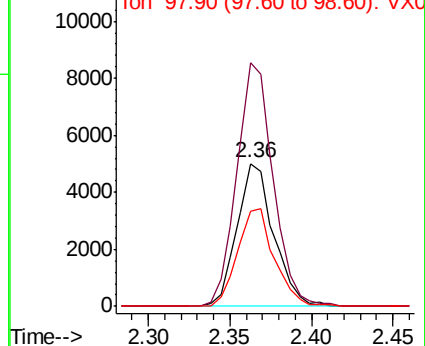
96 100

61 170.4 133.8 200.6

98 66.2 49.9 74.9



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 10.422 ug/l

RT: 2.25 min Scan# 224

Delta R.T. -0.03 min

Lab File: VX012868.D

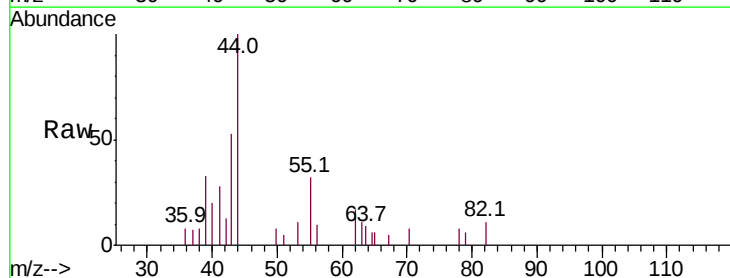
Acq: 08 Oct 2019 04:03

Tgt Ion: 56 Resp: 72

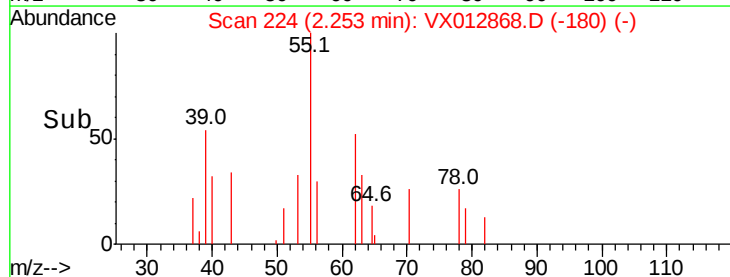
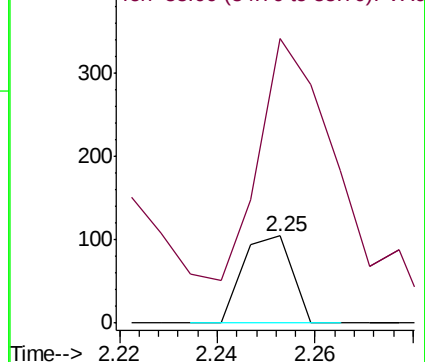
Ion Ratio Lower Upper

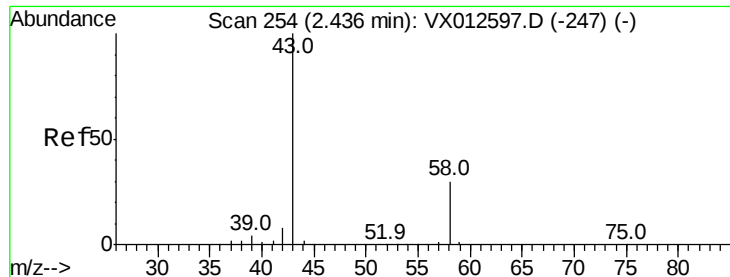
56 100

55 565.3 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.496 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

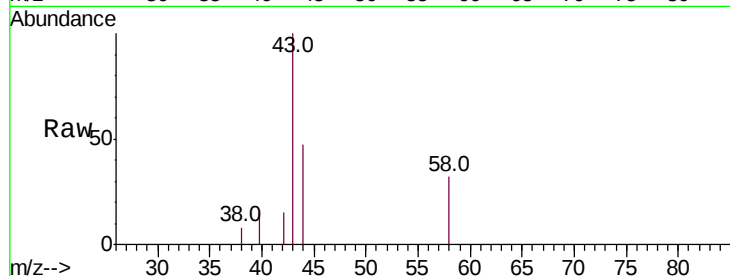
ClientSampleId :

Tot Ion: 43 Resp: 2082

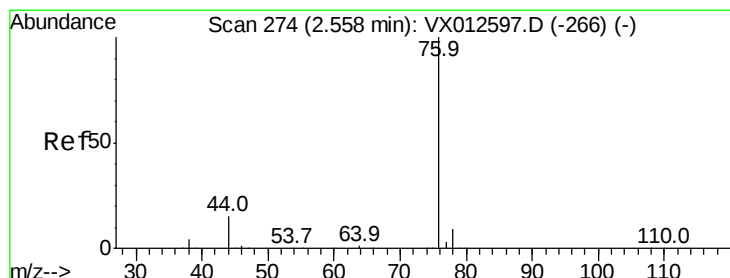
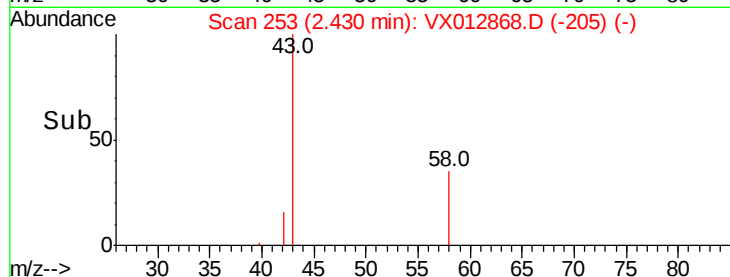
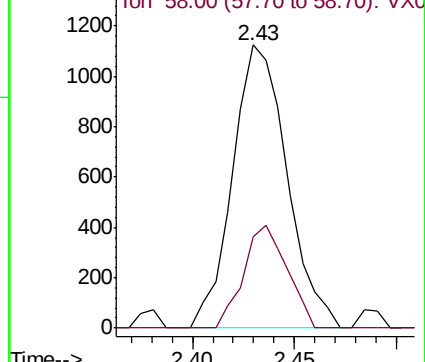
Ion Ratio Lower Upper

43 100

58 32.3 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 0.295 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX012868.D

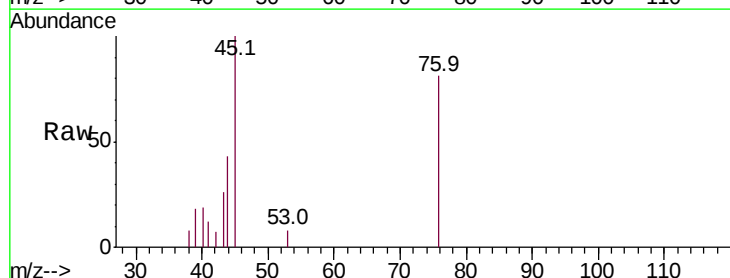
Acq: 08 Oct 2019 04:03

Tgt Ion: 76 Resp: 1602

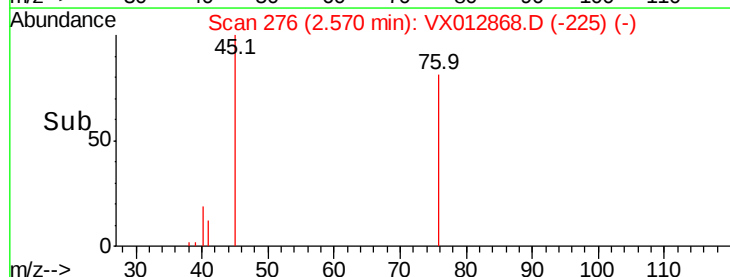
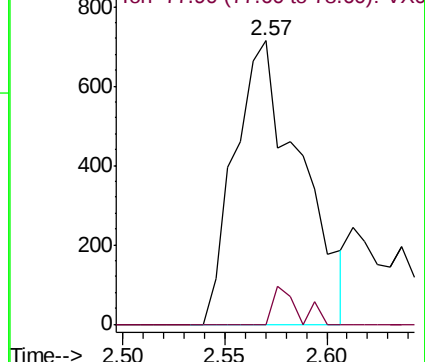
Ion Ratio Lower Upper

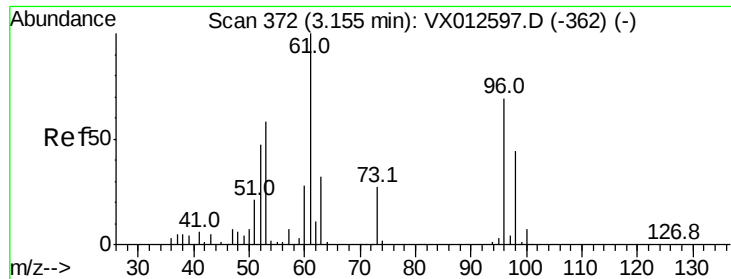
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 76.192 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

ClientSampled :

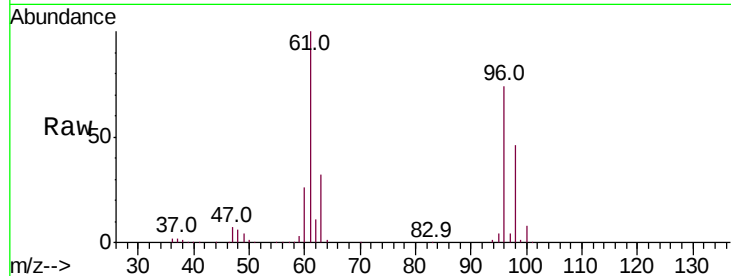
Tot Ion: 96 Resp: 163767

Ion Ratio Lower Upper

96 100

61 135.8 112.0 168.0

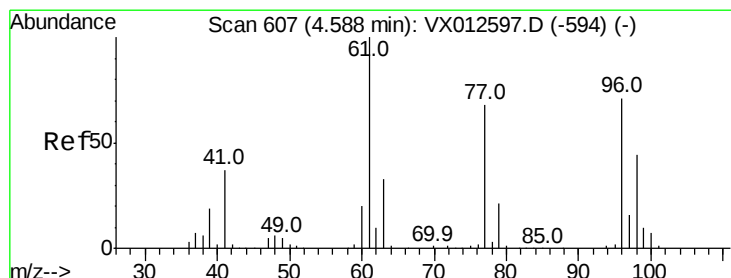
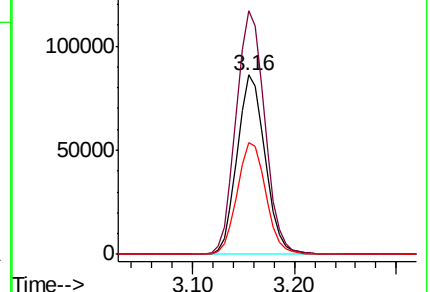
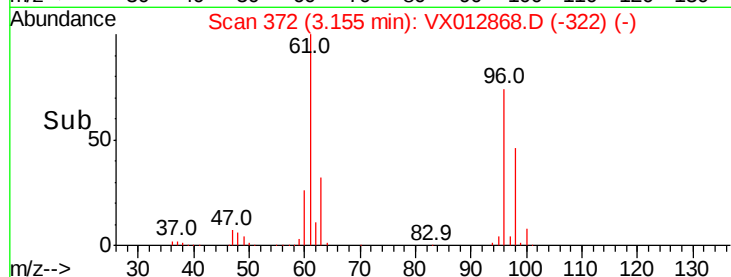
98 62.0 47.8 71.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 1295.293 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

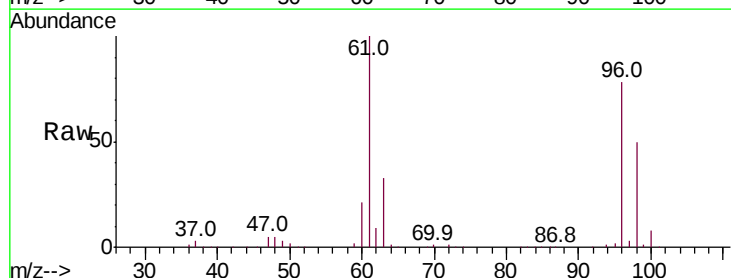
Tgt Ion: 96 Resp: 3230439

Ion Ratio Lower Upper

96 100

61 127.7 0.0 319.4

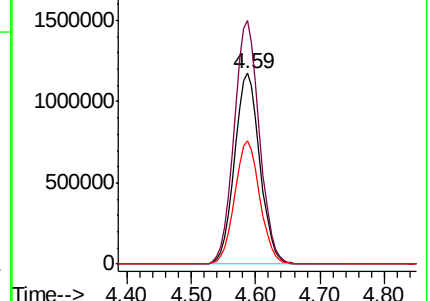
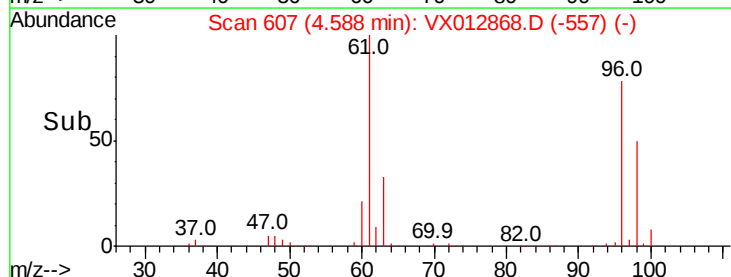
98 64.4 0.0 130.6

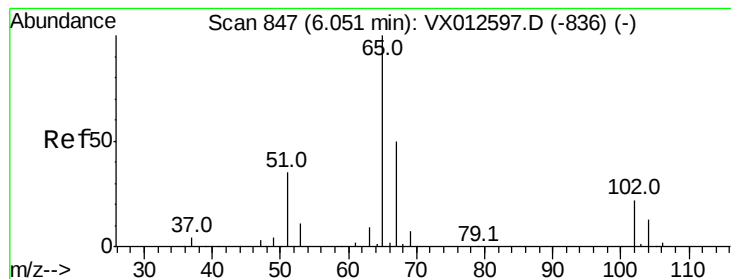


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.308 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

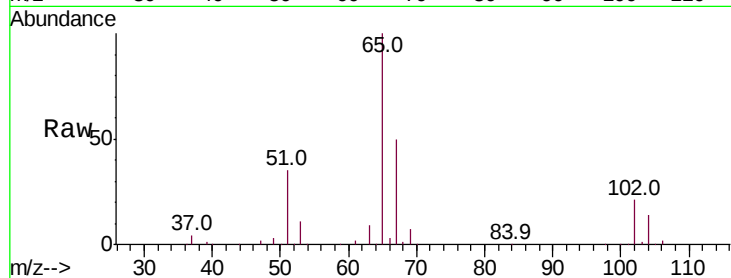
ClientSampled :

Tot Ion: 65 Resp: 119054

Ion Ratio Lower Upper

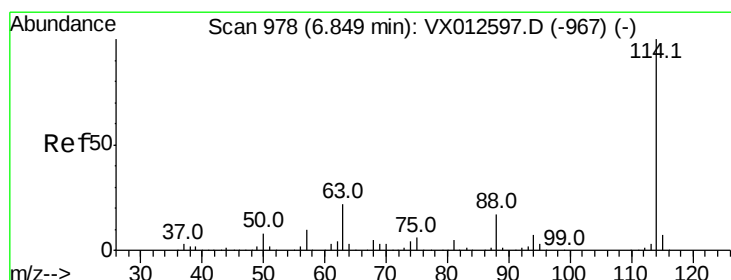
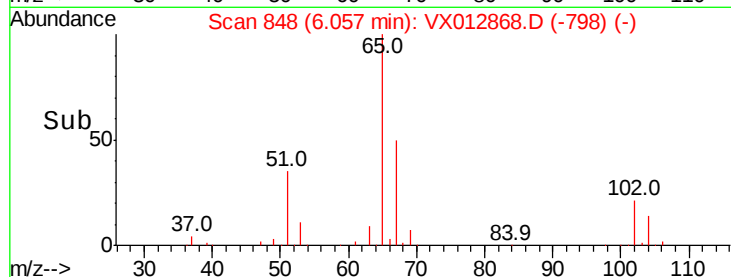
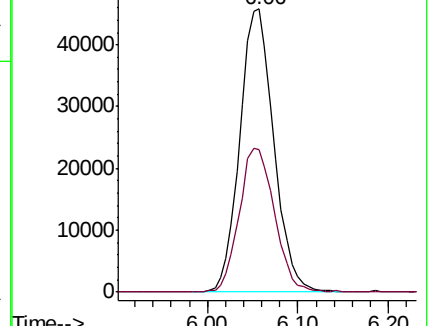
65 100

67 52.6 0.0 101.2



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: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

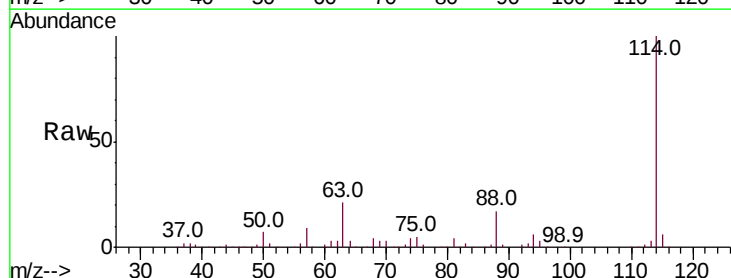
Tgt Ion:114 Resp: 309774

Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.2

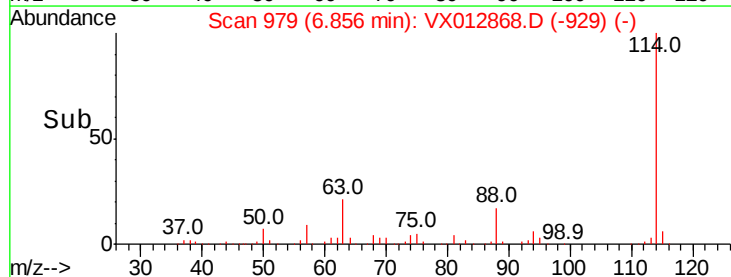
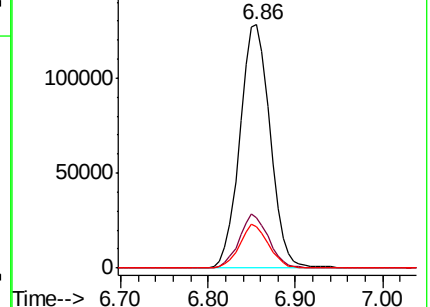
88 17.2 0.0 33.2

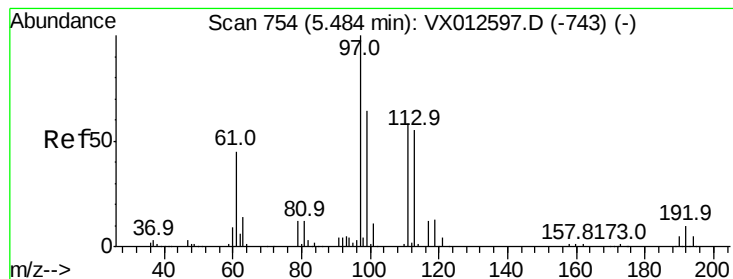


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.869 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

ClientSampleId :

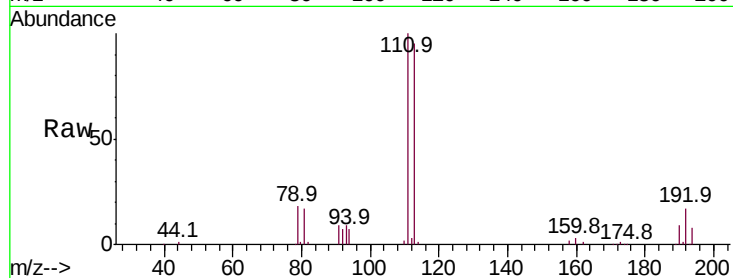
Tot Ion:113 Resp: 92001

Ion Ratio Lower Upper

113 100

111 101.7 83.4 125.2

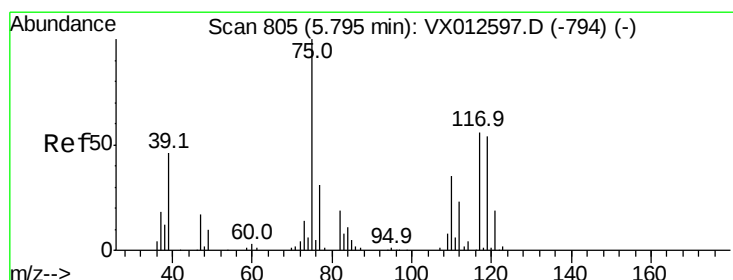
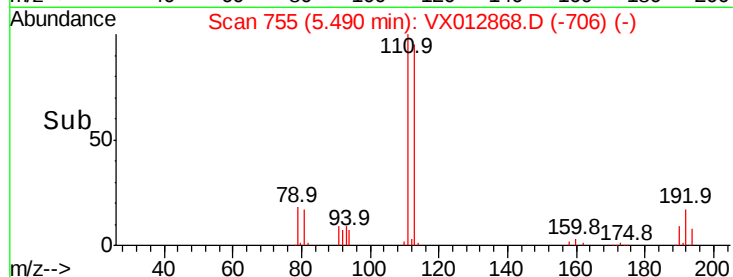
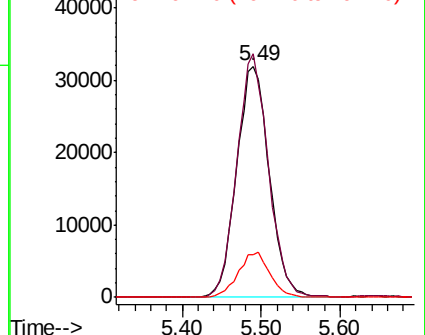
192 18.8 14.4 21.6



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: 4.910 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

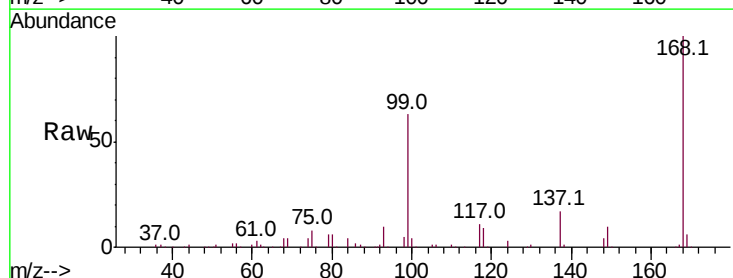
Tgt Ion: 75 Resp: 14662

Ion Ratio Lower Upper

75 100

110 8.6 16.7 50.0#

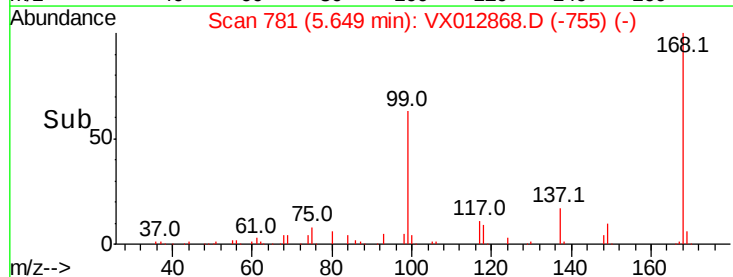
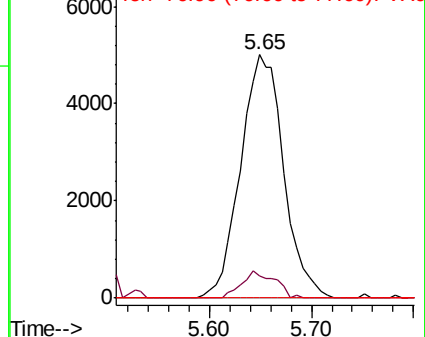
77 0.0 24.2 36.2#

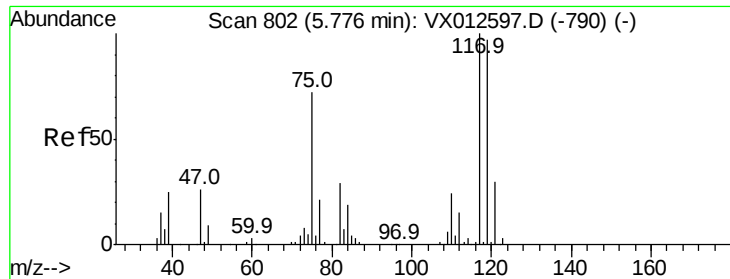


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

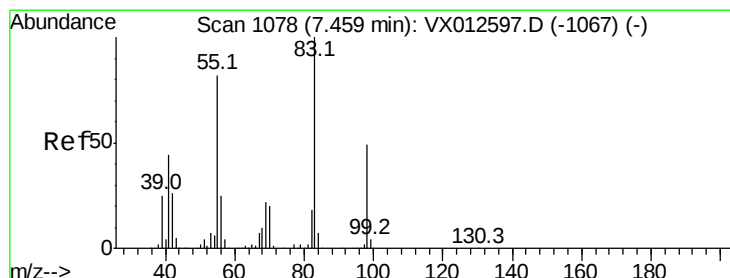
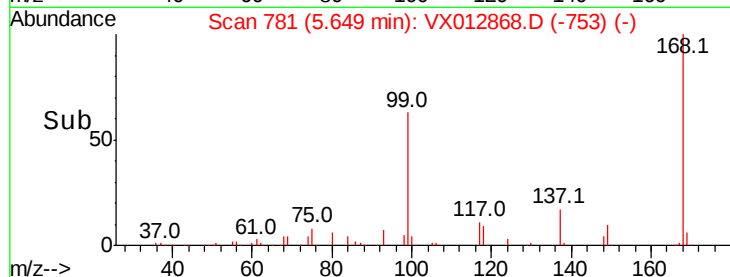
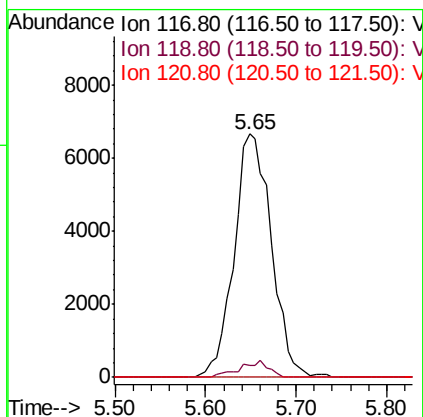
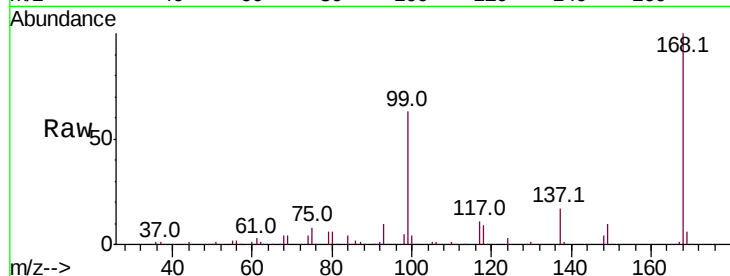




#38
Carbon Tetrachloride
Concen: 6.251 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

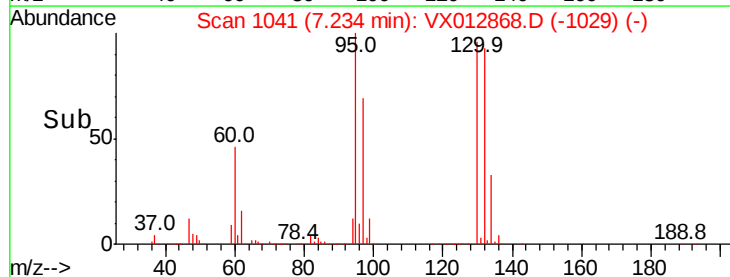
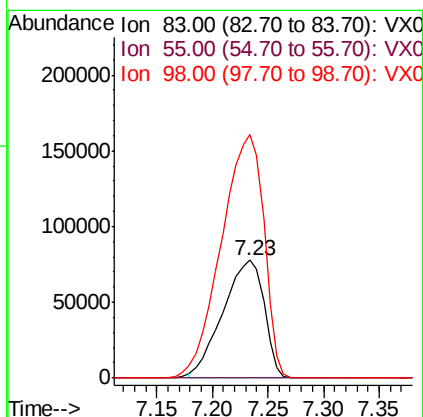
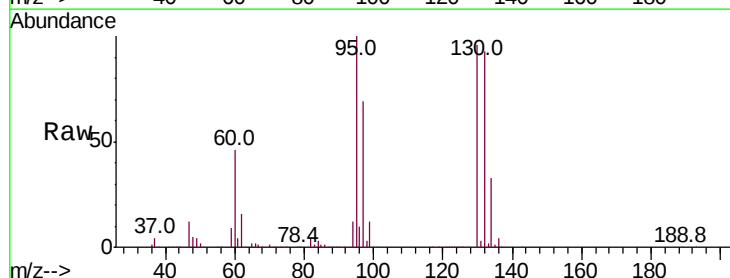
Instrument :
MSVOA_X
ClientSampleId :

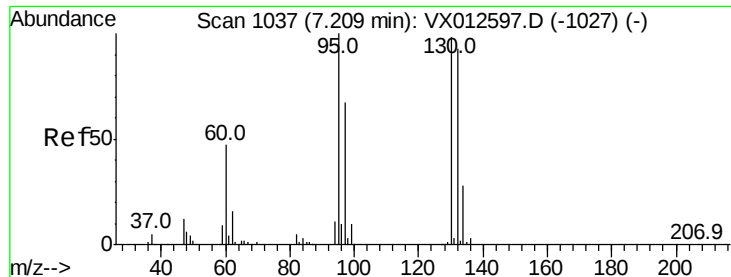
Tot Ion:117 Resp: 18960
Ion Ratio Lower Upper
117 100
119 4.7 75.7 113.5#
121 0.0 24.2 36.4#



#39
Methylcyclohexane
Concen: 55.753 ug/l
RT: 7.23 min Scan# 1041
Delta R.T. -0.23 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

Tgt Ion: 83 Resp: 200412
Ion Ratio Lower Upper
83 100
55 0.1 64.4 96.6#
98 207.0 40.1 60.1#





#44

Trichloroethene

Concen: 6847.909 ug/l

RT: 7.23 min Scan# 1041

Delta R.T. 0.03 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

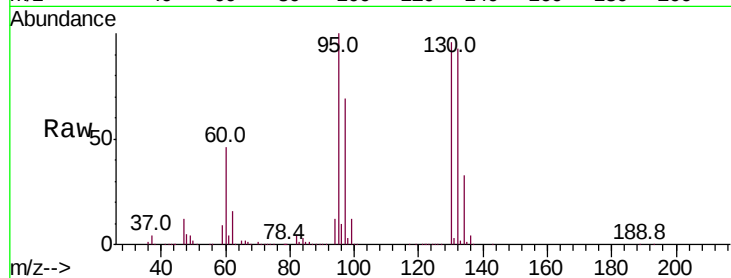
ClientSampleId :

Tot Ion:130 Resp:15379913

Ion Ratio Lower Upper

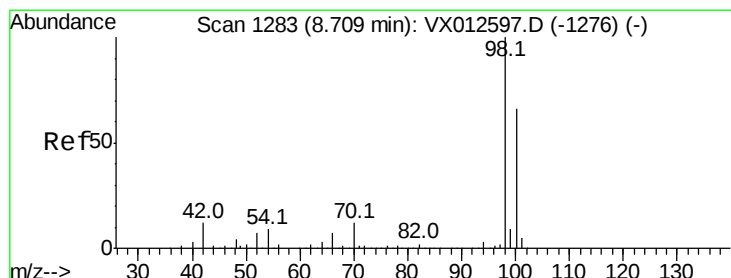
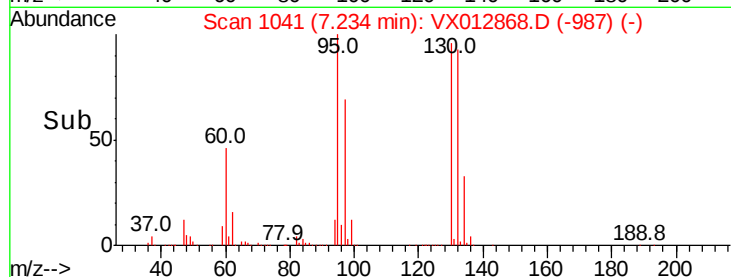
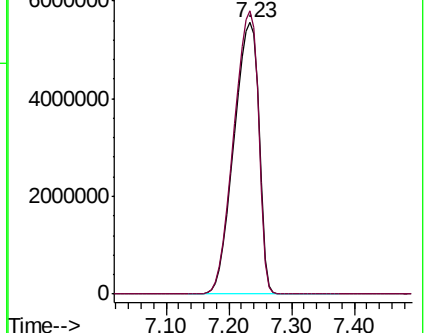
130 100

95 104.3 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): VX012597.D (-1027) (-)

Ion 94.90 (94.60 to 95.60): VX012597.D (-1027) (-)



#50

Toluene-d8

Concen: 50.911 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012868.D

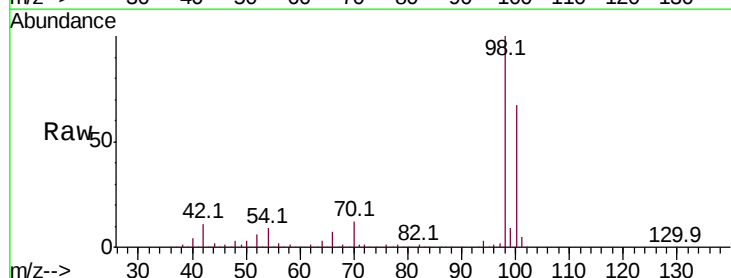
Acq: 08 Oct 2019 04:03

Tgt Ion: 98 Resp: 361702

Ion Ratio Lower Upper

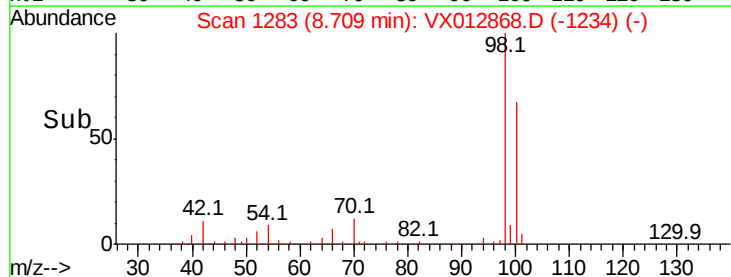
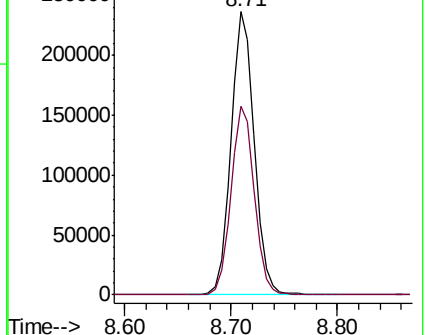
98 100

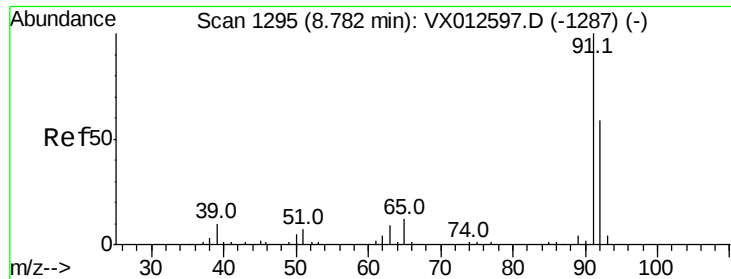
100 67.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX012597.D (-1276) (-)

Ion 100.00 (99.70 to 100.70): VX012597.D (-1276) (-)





#52

Toluene

Concen: 6.922 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

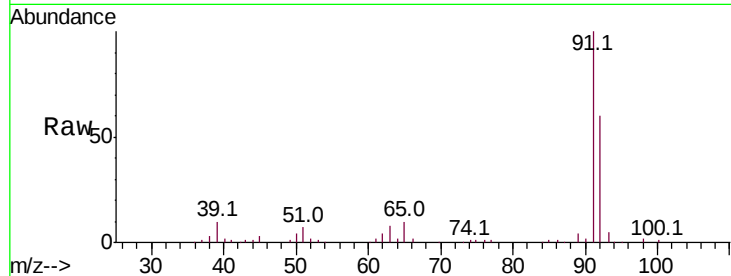
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 92 Resp: 38222

Ion Ratio Lower Upper

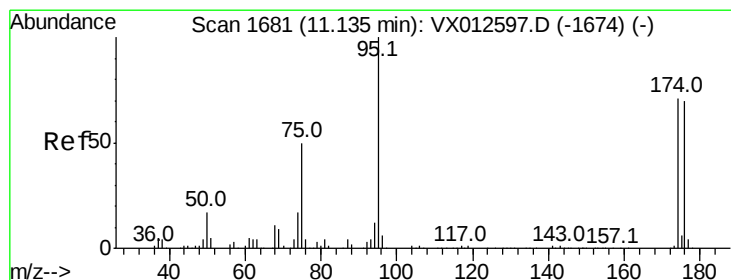
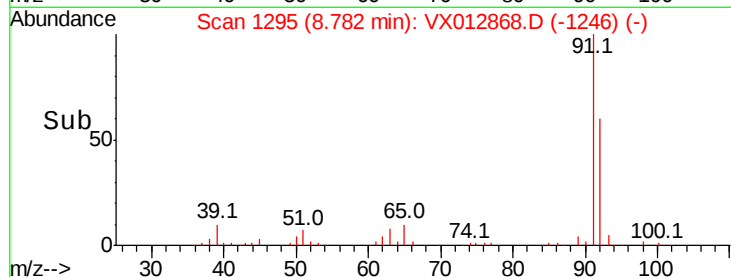
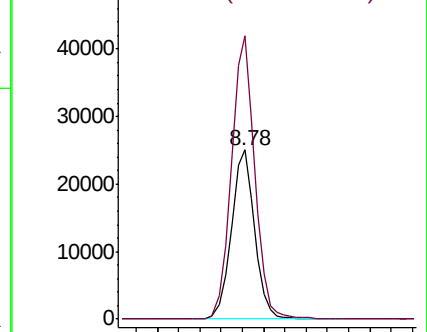
92 100

91 168.6 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.629 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

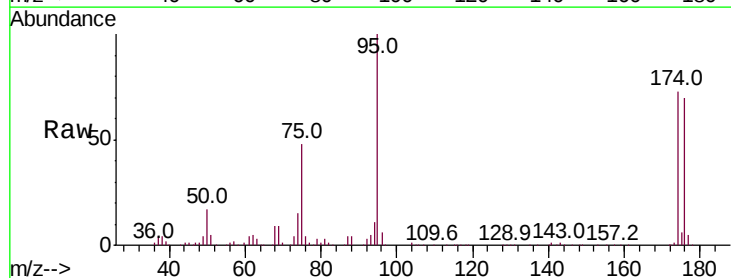
Tgt Ion: 95 Resp: 130259

Ion Ratio Lower Upper

95 100

174 70.1 0.0 140.0

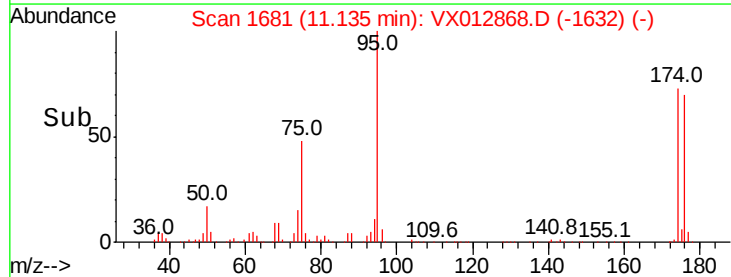
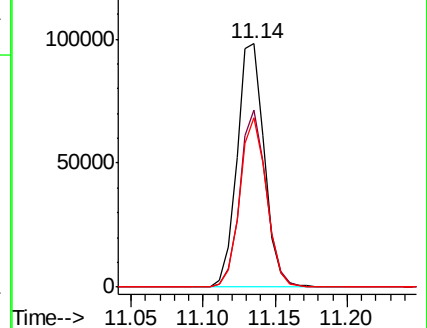
176 68.0 0.0 135.4

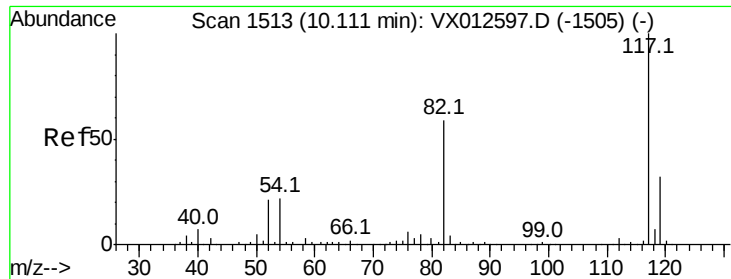


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

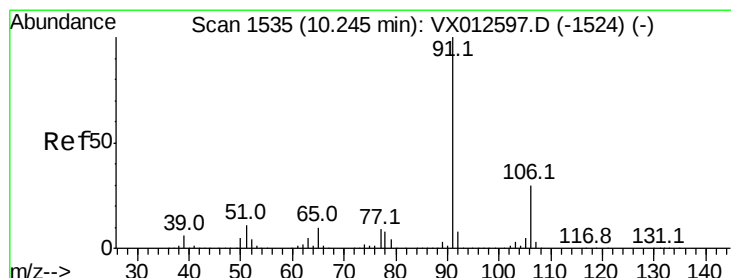
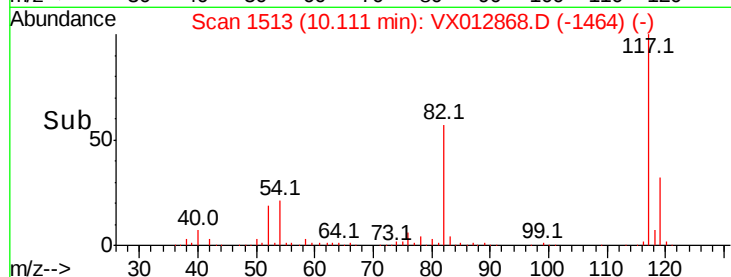
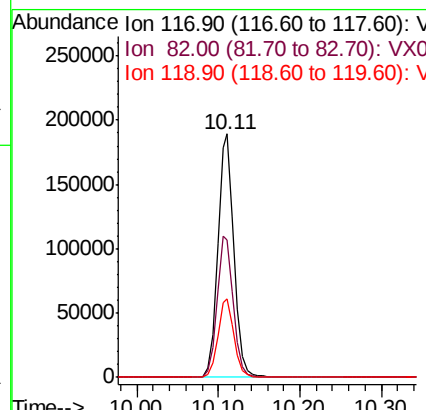
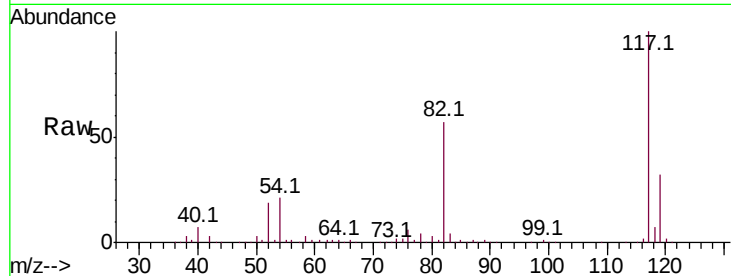




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

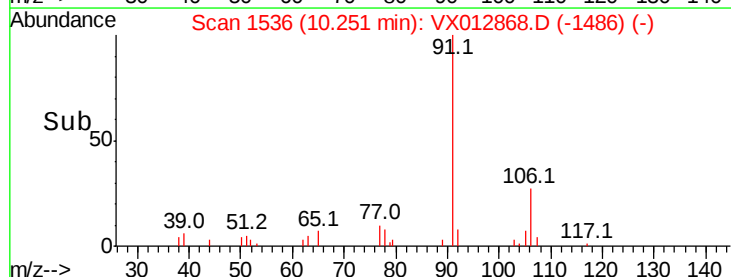
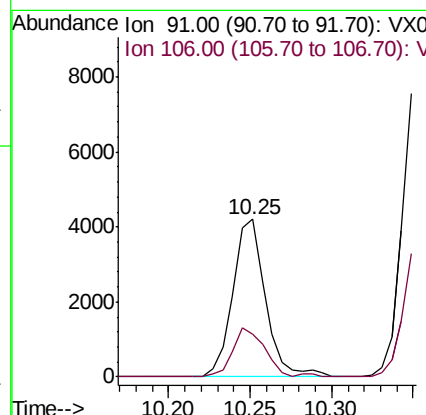
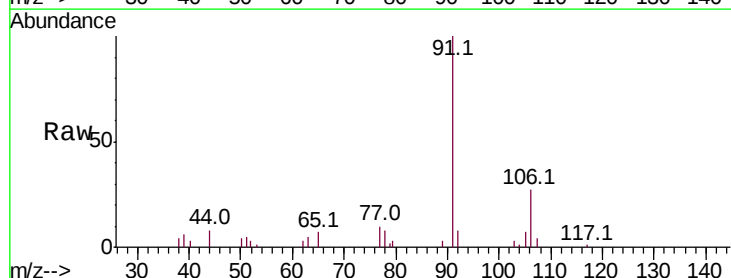
Instrument :
MSVOA_X
ClientSampleId :

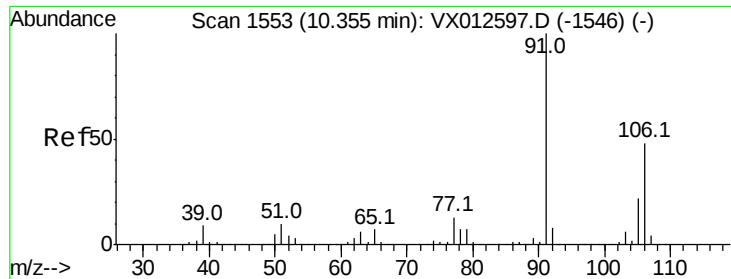
Tot Ion:117 Resp: 263439
Ion Ratio Lower Upper
117 100
82 56.7 45.9 68.9
119 32.0 25.3 37.9



#67
Ethyl Benzene
Concen: 0.581 ug/l
RT: 10.25 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

Tgt Ion: 91 Resp: 5842
Ion Ratio Lower Upper
91 100
106 27.3 24.6 37.0

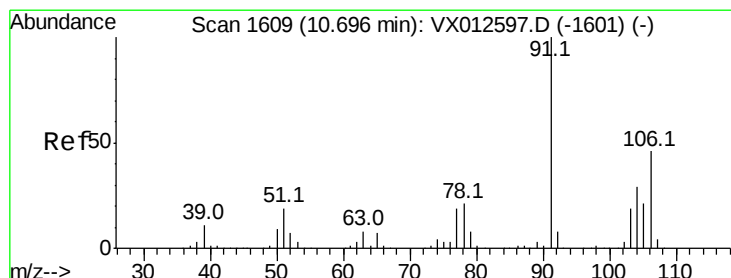
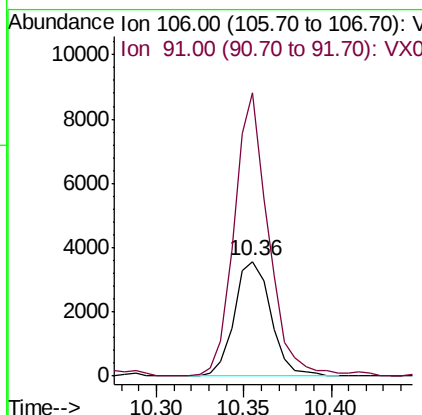
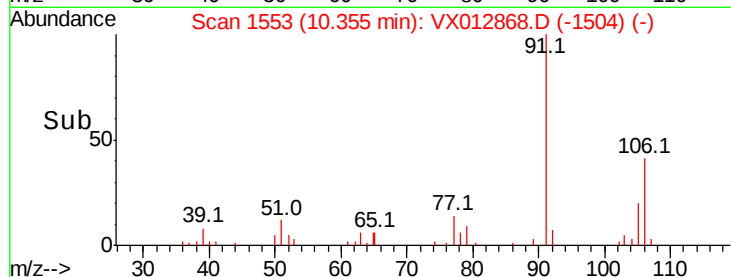
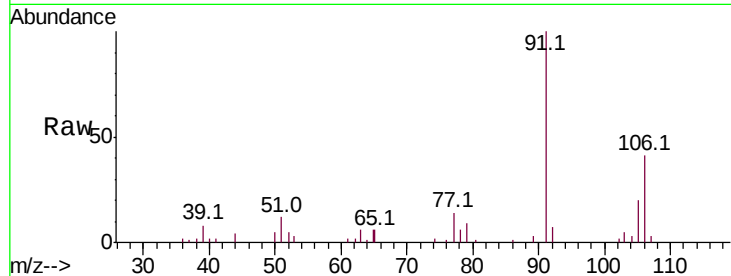




#68
m/p-Xylenes
Concen: 1.382 ug/l
RT: 10.36 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

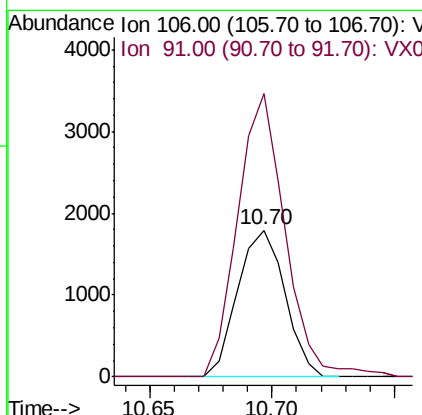
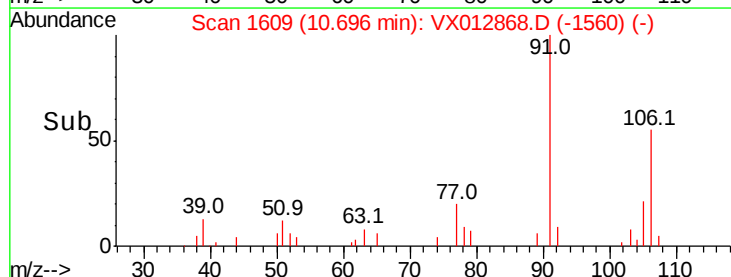
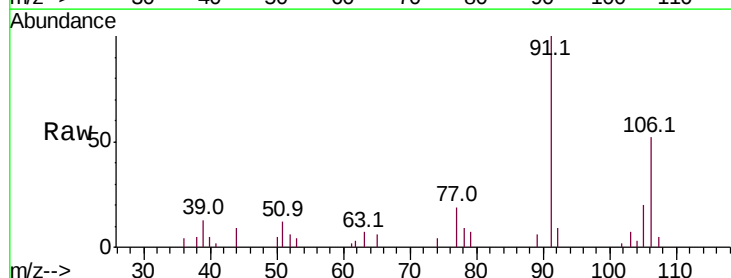
Instrument :
MSVOA_X
ClientSampleId :

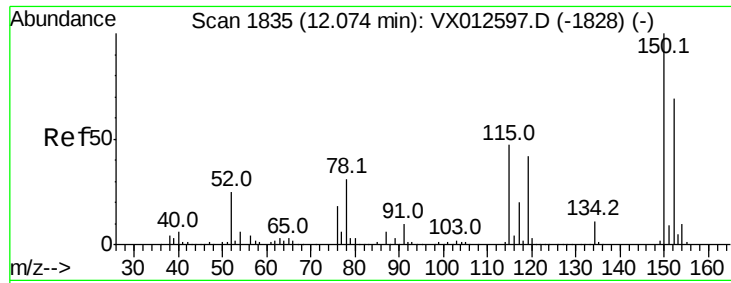
Tot Ion:106 Resp: 5208
Ion Ratio Lower Upper
106 100
91 231.5 166.6 250.0



#69
o-Xylene
Concen: 0.661 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

Tgt Ion:106 Resp: 2409
Ion Ratio Lower Upper
106 100
91 194.7 109.4 328.2



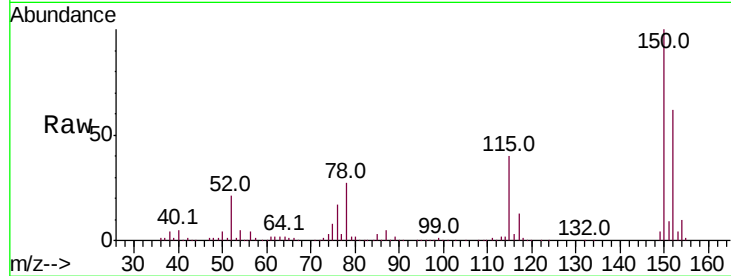


#72

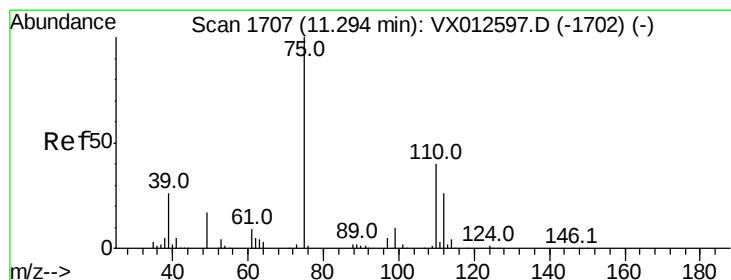
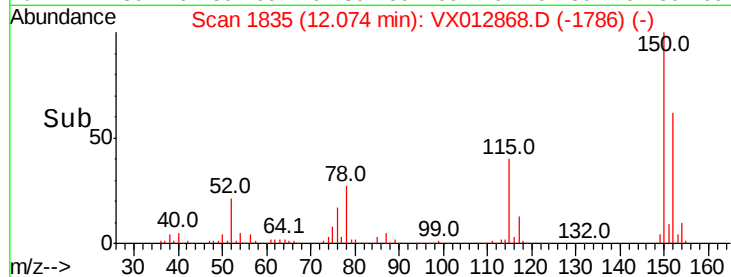
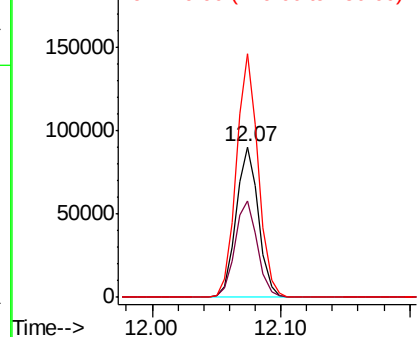
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 109278
Ion Ratio Lower Upper
152 100
115 64.7 44.1 132.3
150 158.4 0.0 343.8



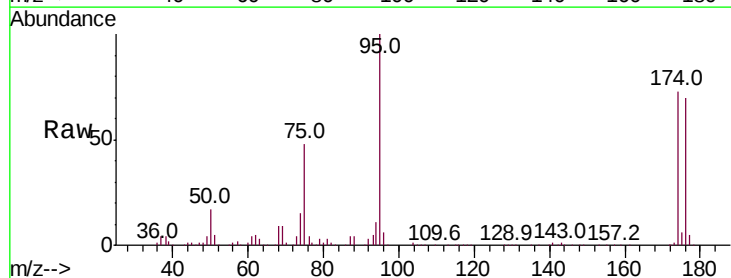
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



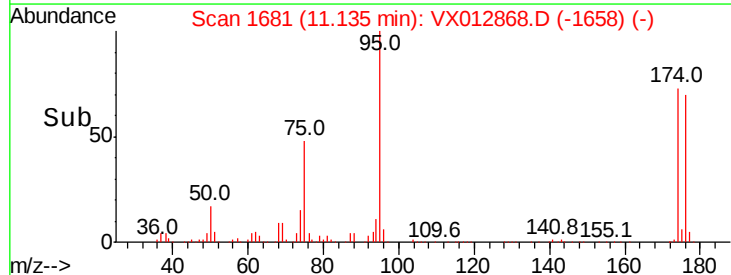
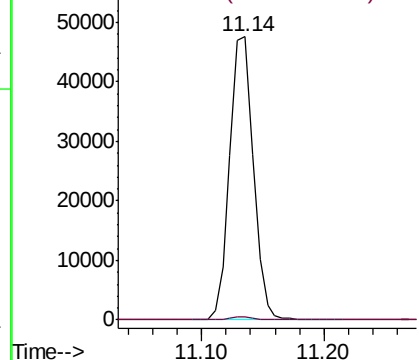
#76

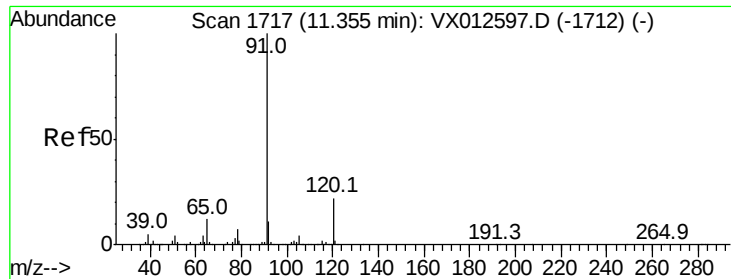
1,2,3-Trichloropropane
Concen: 22.178 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX012868.D
Acq: 08 Oct 2019 04:03

Tgt Ion: 75 Resp: 64109
Ion Ratio Lower Upper
75 100
77 1.1 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.241 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

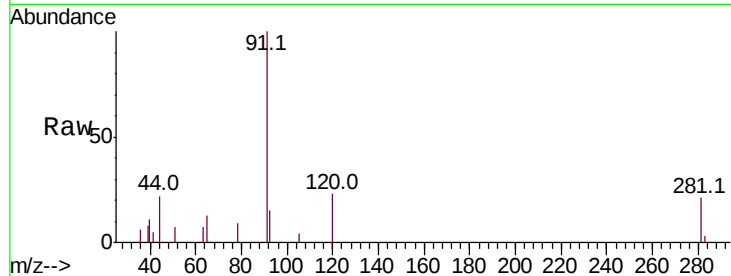
ClientSampleId :

Tot Ion: 91 Resp: 2411

Ion Ratio Lower Upper

91 100

120 21.6 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VX012597.D (-1712) (-)

Ion 120.00 (119.70 to 120.70): VX012597.D (-1712) (-)

11.35

2000

1500

1000

500

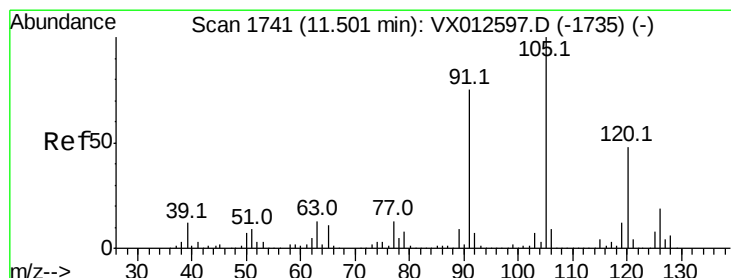
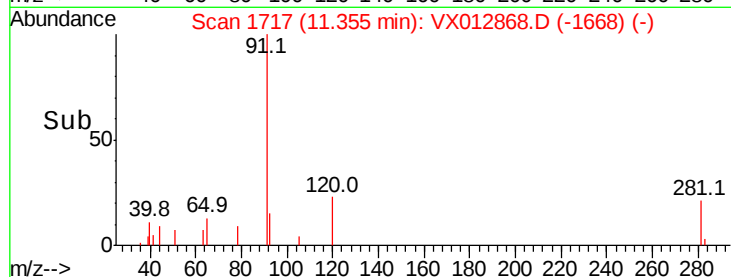
0

Time-->

11.30

11.35

11.40



#80

1,3,5-Trimethylbenzene

Concen: 0.431 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX012868.D

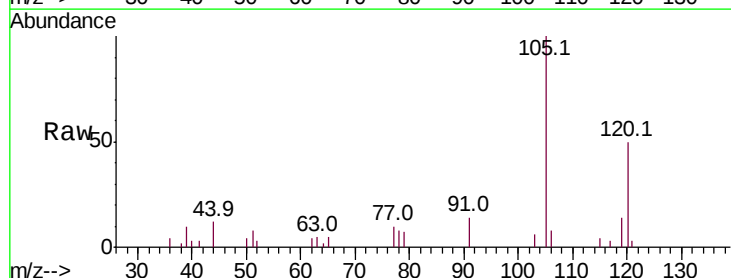
Acq: 08 Oct 2019 04:03

Tgt Ion: 105 Resp: 3218

Ion Ratio Lower Upper

105 100

120 49.3 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VX012597.D (-1735) (-)

Ion 120.00 (119.70 to 120.70): VX012597.D (-1735) (-)

11.50

3000

2500

2000

1500

1000

500

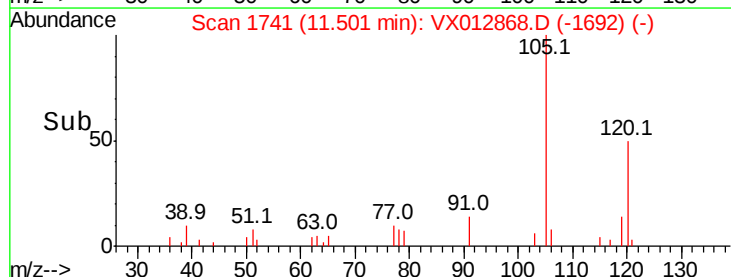
0

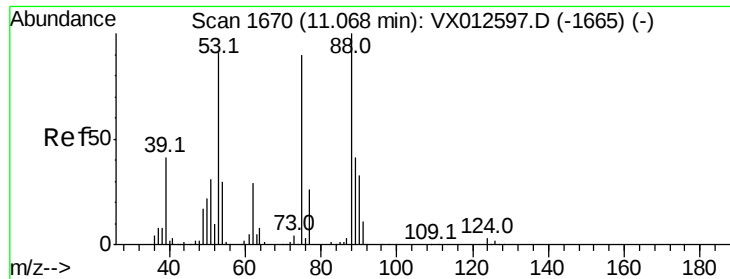
Time-->

11.45

11.50

11.55





#81

trans-1,4-Dichloro-2-butene

Concen: 63.557 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012868.D

Acq: 08 Oct 2019 04:03

Instrument :

MSVOA_X

ClientSampleId :

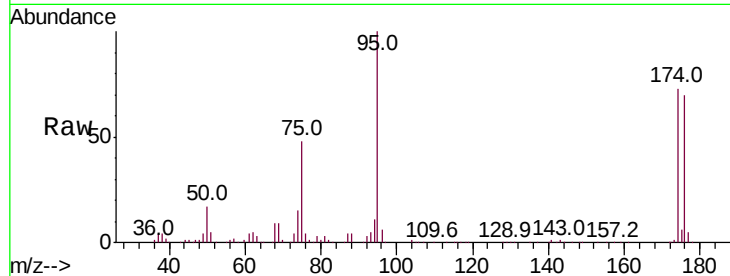
Tot Ion: 75 Resp: 64109

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

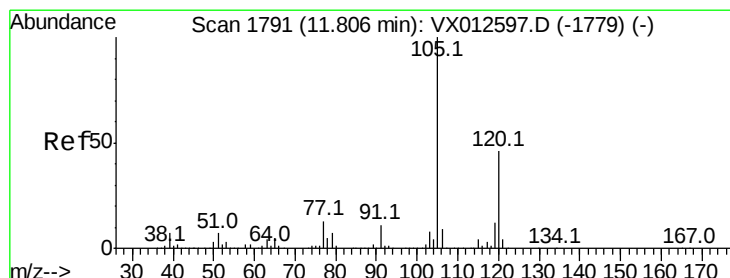
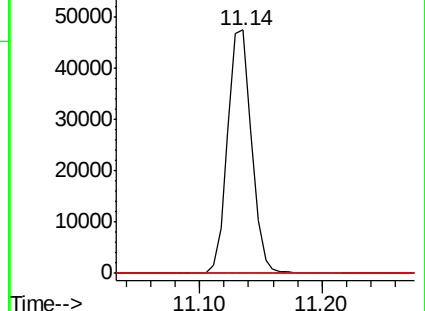
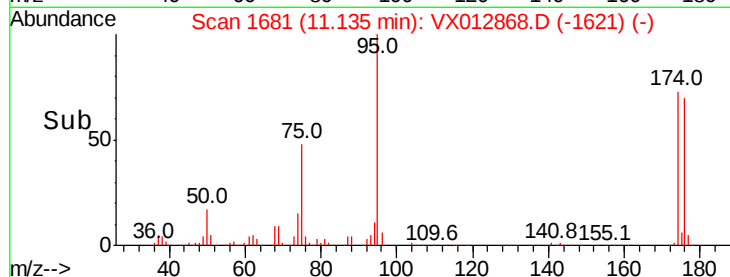
89 0.0 36.3 54.5#



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: 0.805 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX012868.D

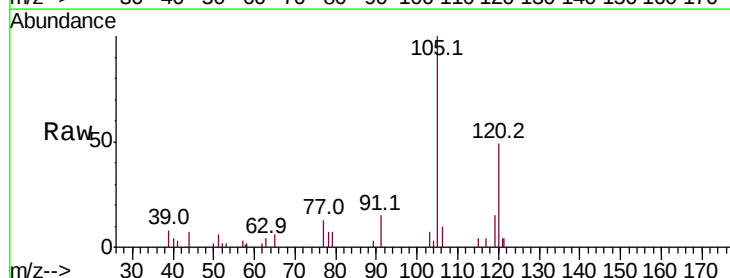
Acq: 08 Oct 2019 04:03

Tgt Ion: 105 Resp: 6062

Ion Ratio Lower Upper

105 100

120 45.6 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

