

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052919\
 Data File : VX009931.D
 Acq On : 29 May 2019 11:45
 Operator : JC/SP
 Sample : K3032-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0652

Quant Time: May 30 01:12:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	181452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	288902	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	260171	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113101	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	121205	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
35) Dibromofluoromethane	5.50	113	88765	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	8.71	98	364610	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.13	95	123733	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	

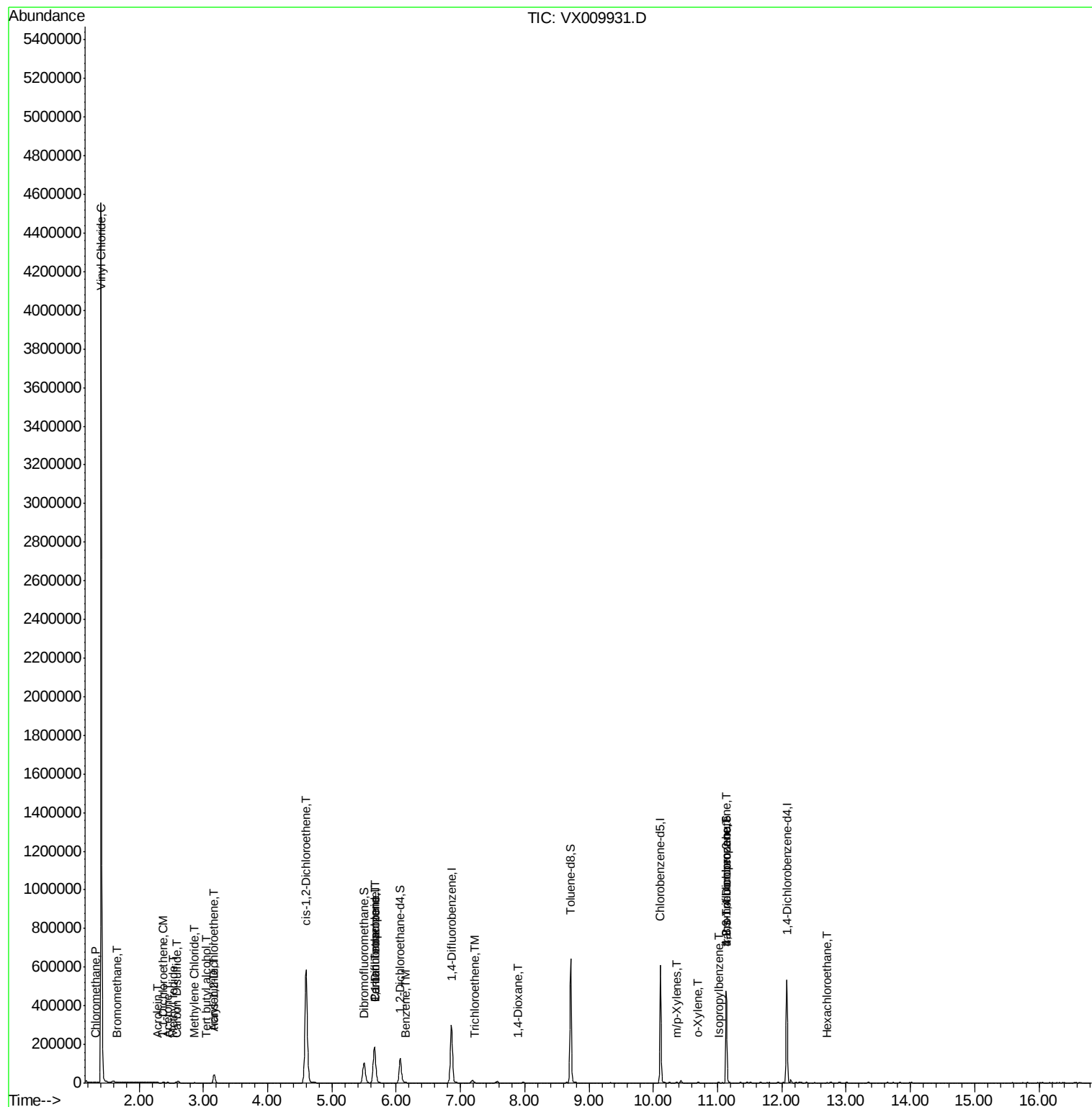
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	612	0.205	ug/l	97
4) Vinyl Chloride	1.41	62	3010410	1120.289	ug/l	99
5) Bromomethane	1.65	94	444	0.273	ug/l	84
10) Methyl Iodide	2.53	142	331	4.792	ug/l #	88
11) Tert butyl alcohol	3.04	59	1351	2.142	ug/l #	93
12) 1,1-Dichloroethene	2.38	96	1712	0.932	ug/l	93
13) Acrolein	2.29	56	256	21.621	ug/l #	44
15) Acrylonitrile	3.15	53	495	0.326	ug/l #	77
16) Acetone	2.45	43	3465	2.340	ug/l #	87
17) Carbon Disulfide	2.57	76	1865	0.717	ug/l	96
20) Methylene Chloride	2.85	84	541	0.239	ug/l #	60
21) trans-1,2-Dichloroethene	3.17	96	17782	8.697	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	358725	151.988	ug/l	87
36) 1,1-Dichloropropene	5.66	75	14451	4.930	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17010	6.715	ug/l #	15
40) Benzene	6.15	78	1901	0.219	ug/l	96
44) Trichloroethene	7.22	130	587	0.278	ug/l	53
49) 1,4-Dioxane	7.90	88	42	0.692	ug/l #	1
68) m/p-Xylenes	10.36	106	736	0.204	ug/l	97
69) o-Xylene	10.69	106	1224	0.353	ug/l	95
73) Isopropylbenzene	11.02	105	1718	0.206	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	63964	23.650	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63964	58.514	ug/l #	10
90) Hexachloroethane	12.70	117	323	0.262	ug/l #	6

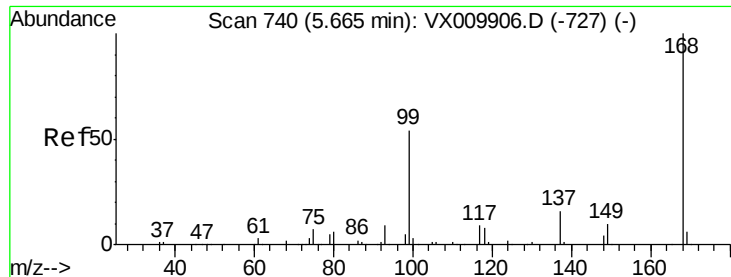
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
Quant Title : SW846 8260
QLast Update : Wed May 29 04:00:56 2019
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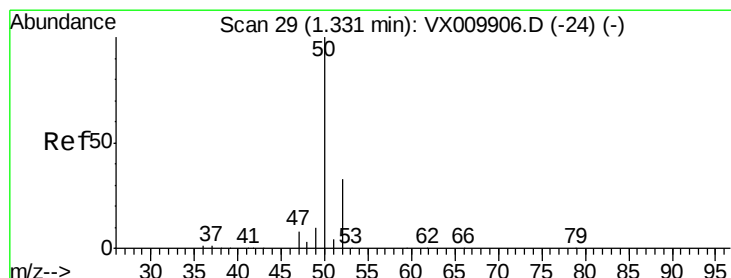
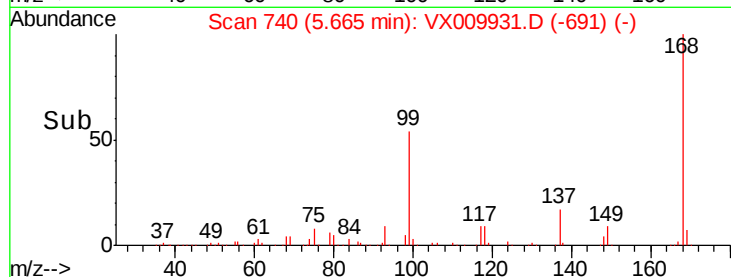
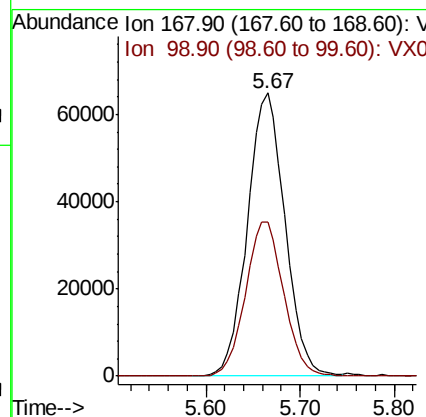
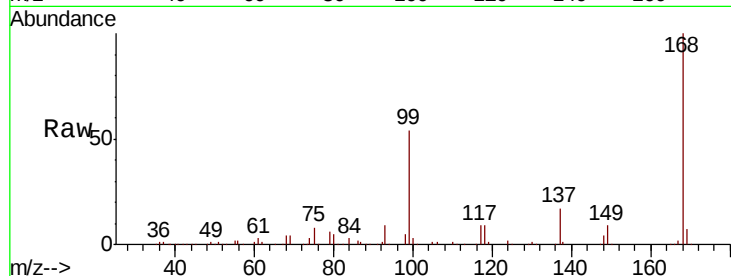




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.00 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

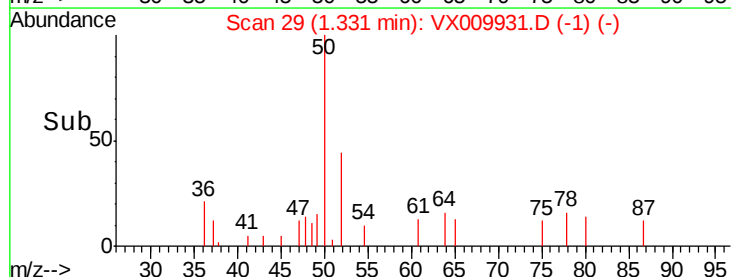
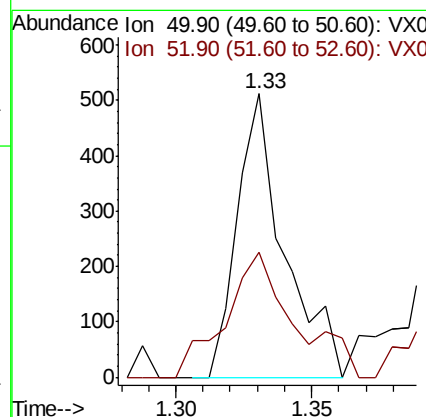
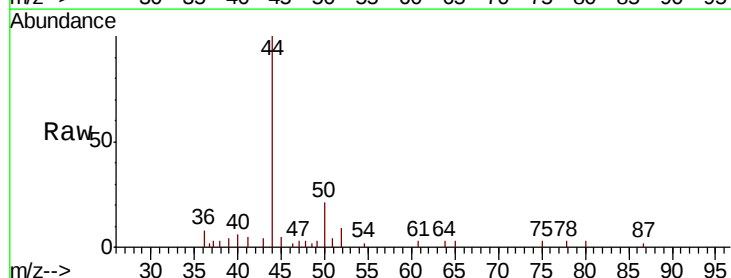
Instrument :
MSVOA_X
ClientSampleId :
S32-0652

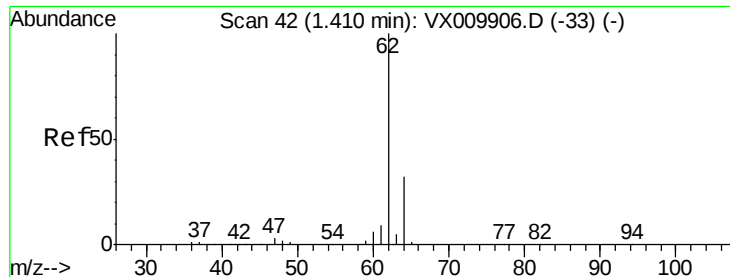
Tot Ion:168 Resp: 181452
Ion Ratio Lower Upper
168 100
99 54.4 43.0 64.6



#3
Chloromethane
Concen: 0.205 ug/l
RT: 1.33 min Scan# 29
Delta R.T. 0.00 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

Tgt Ion: 50 Resp: 612
Ion Ratio Lower Upper
50 100
52 30.9 26.0 39.0





#4

Vinyl Chloride

Concen: 1120.289 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampled :

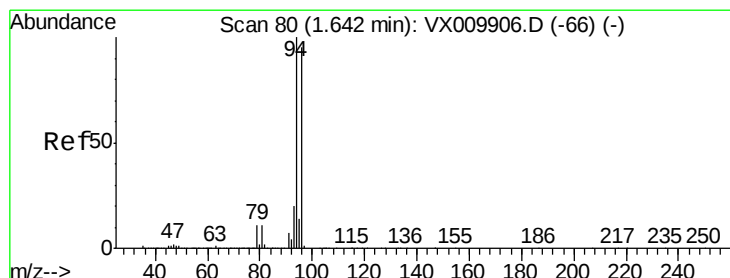
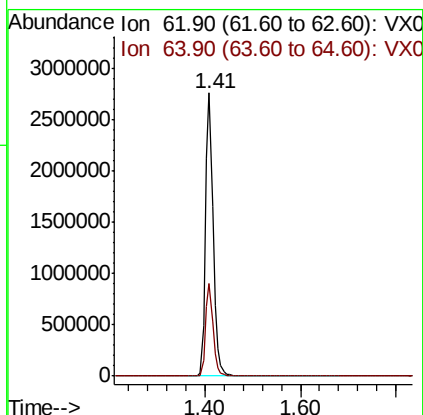
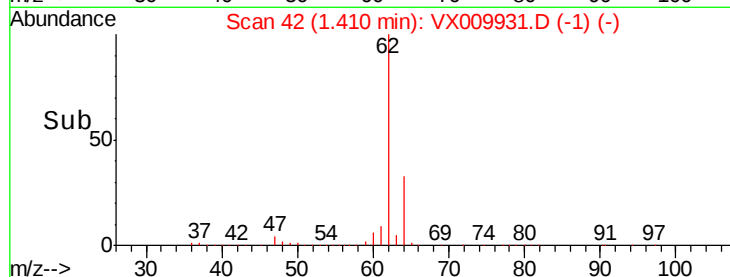
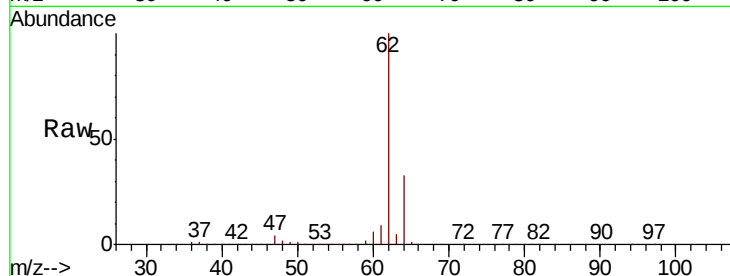
S32-0652

Tot Ion: 62 Resp: 3010410

Ion Ratio Lower Upper

62 100

64 32.6 25.7 38.5



#5

Bromomethane

Concen: 0.273 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX009931.D

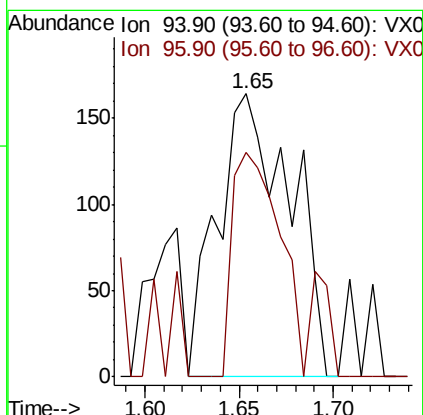
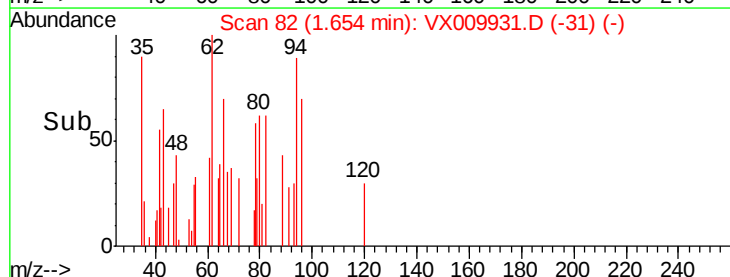
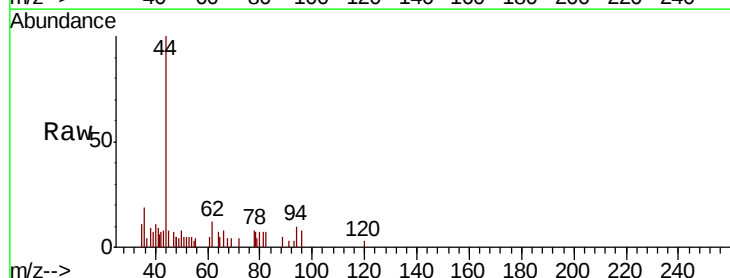
Acq: 29 May 2019 11:45

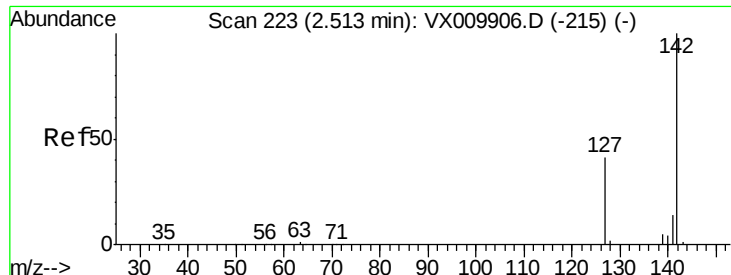
Tgt Ion: 94 Resp: 444

Ion Ratio Lower Upper

94 100

96 79.3 76.2 114.4

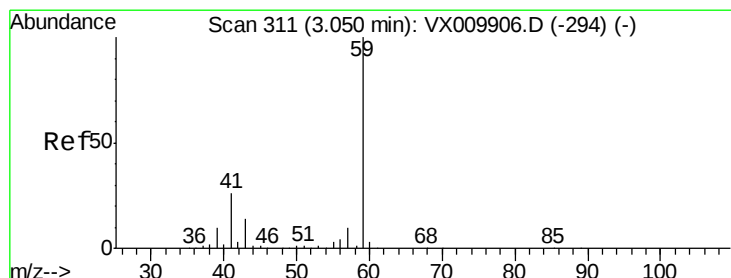
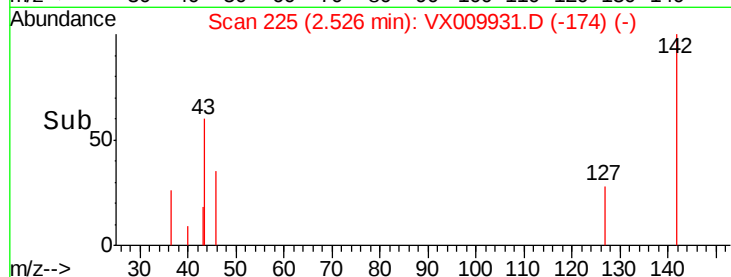
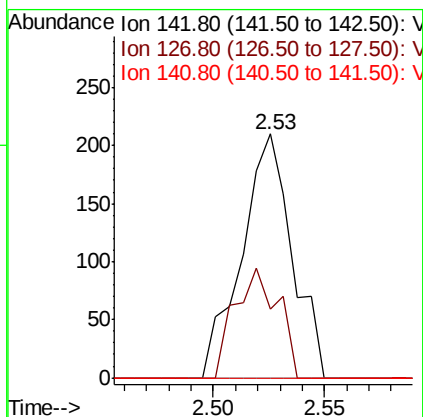
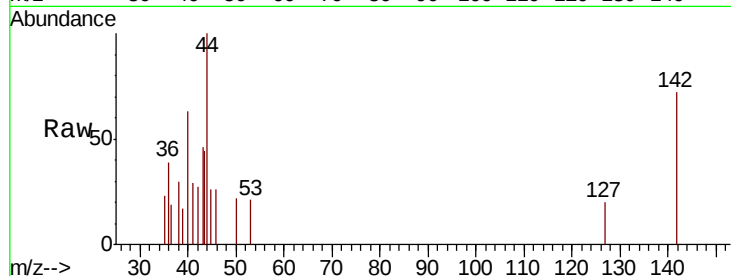




#10
Methvl Iodide
Concen: 4.792 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.01 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

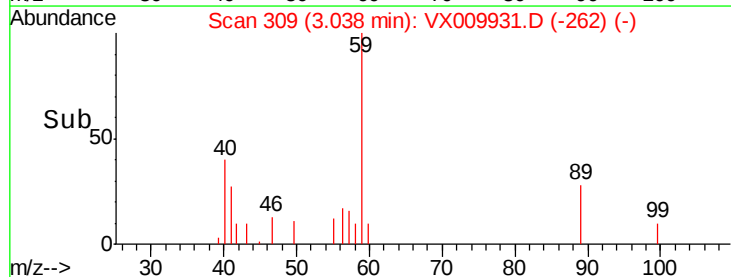
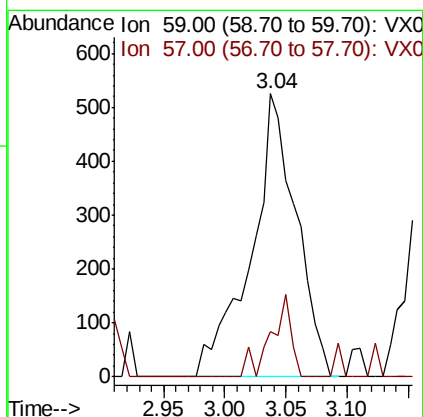
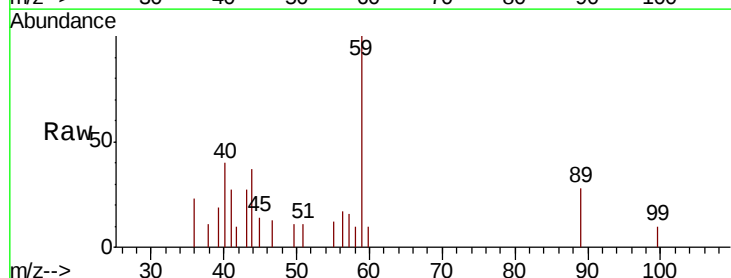
Instrument :
MSVOA_X
ClientSampleId :
S32-0652

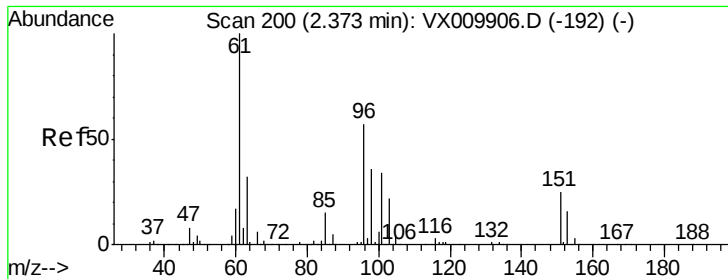
Tot Ion:142 Resp: 331
Ion Ratio Lower Upper
142 100
127 38.7 33.0 49.4
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.142 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

Tgt Ion: 59 Resp: 1351
Ion Ratio Lower Upper
59 100
57 13.0 8.2 12.2#

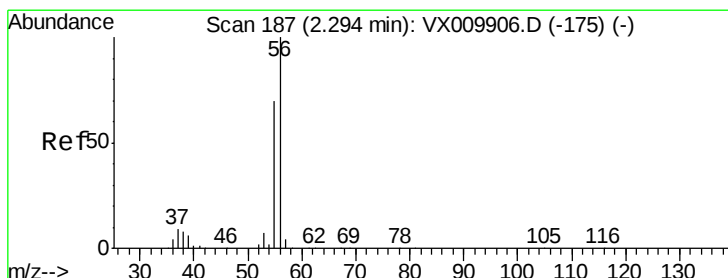
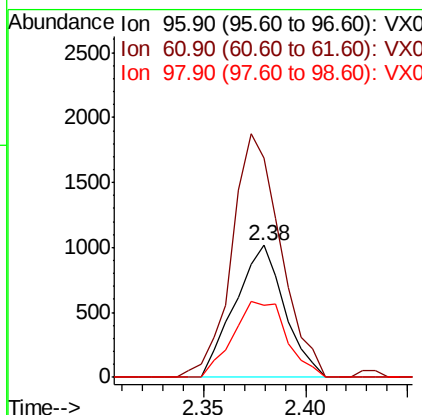
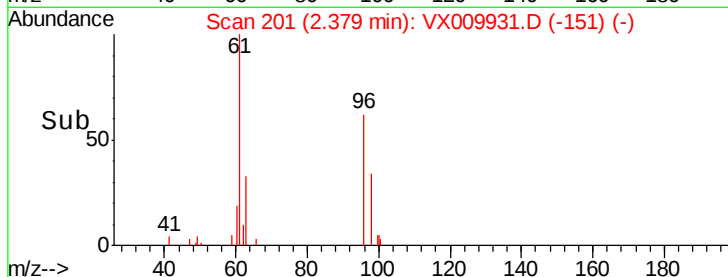
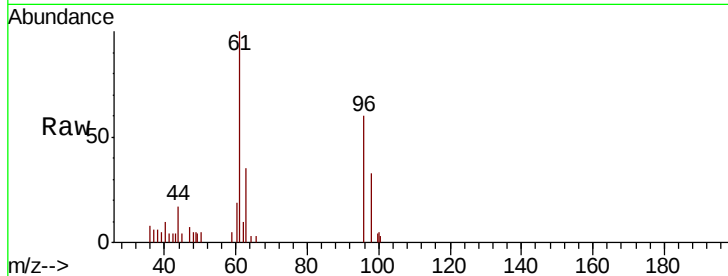




#12
 1,1-Dichloroethene
 Concen: 0.932 ug/l
 RT: 2.38 min Scan# 201
 Delta R.T. 0.01 min
 Lab File: VX009931.D
 Acq: 29 May 2019 11:45

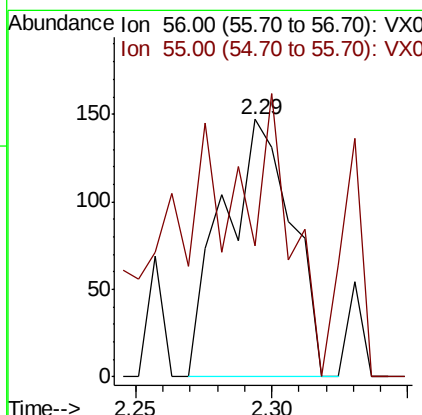
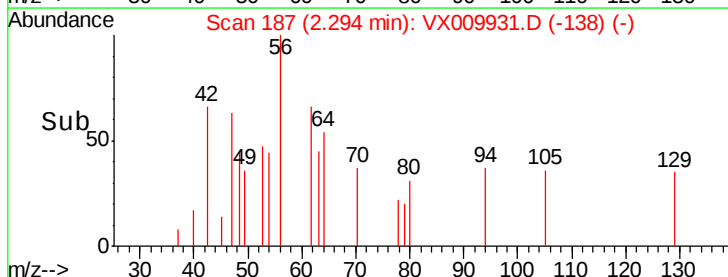
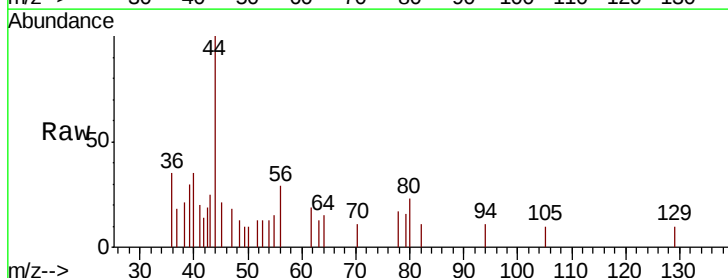
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0652

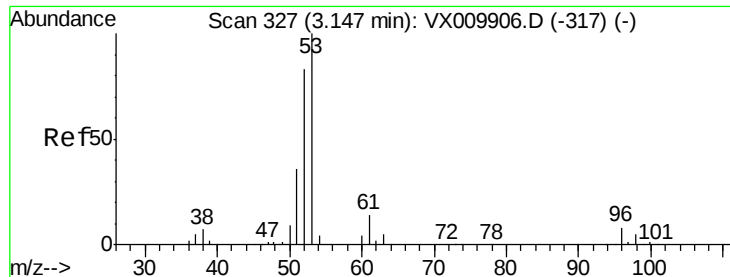
Tot Ion: 96 Resp: 1712
 Ion Ratio Lower Upper
 96 100
 61 166.6 140.7 211.1
 98 55.0 50.1 75.1



#13
 Acrolein
 Concen: 21.621 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX009931.D
 Acq: 29 May 2019 11:45

Tgt Ion: 56 Resp: 256
 Ion Ratio Lower Upper
 56 100
 55 25.0 57.0 85.4#





#15

Acrylonitrile

Concen: 0.326 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampled :

S32-0652

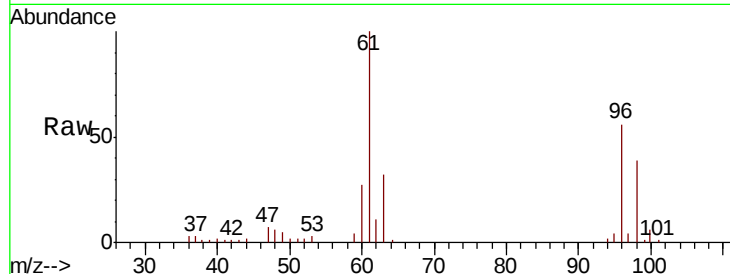
Tot Ion: 53 Resp: 495

Ion Ratio Lower Upper

53 100

52 53.7 66.7 100.1#

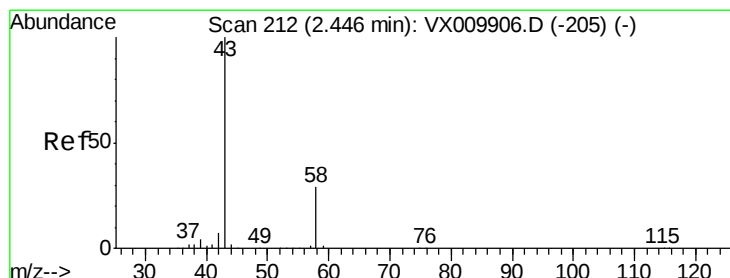
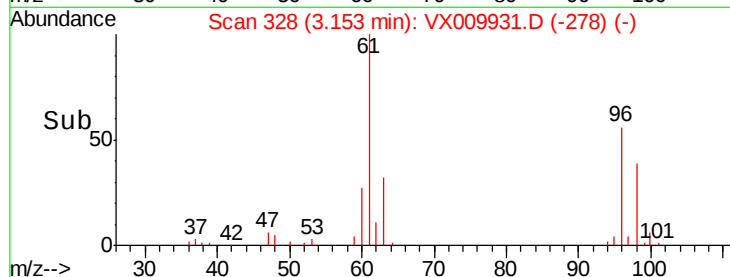
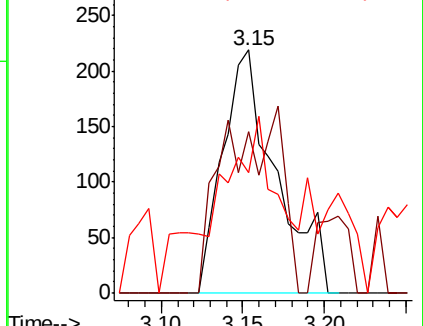
51 36.8 28.8 43.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 2.340 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009931.D

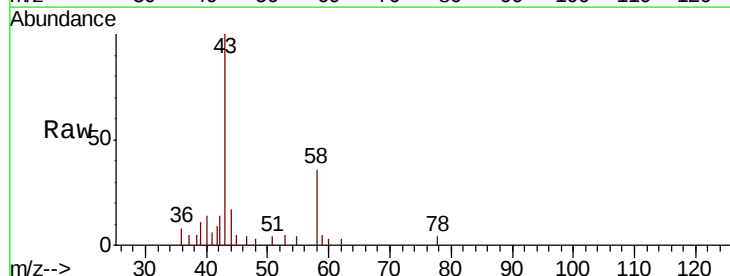
Acq: 29 May 2019 11:45

Tgt Ion: 43 Resp: 3465

Ion Ratio Lower Upper

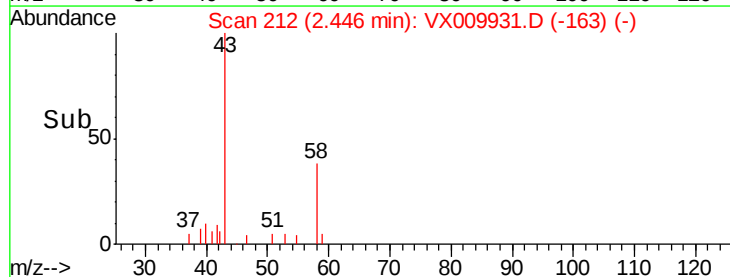
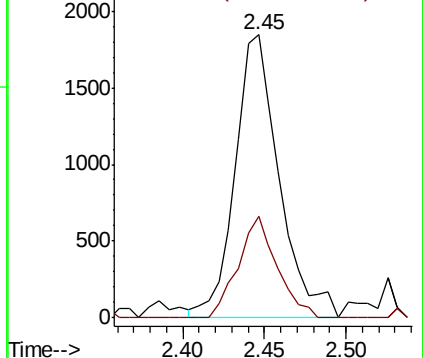
43 100

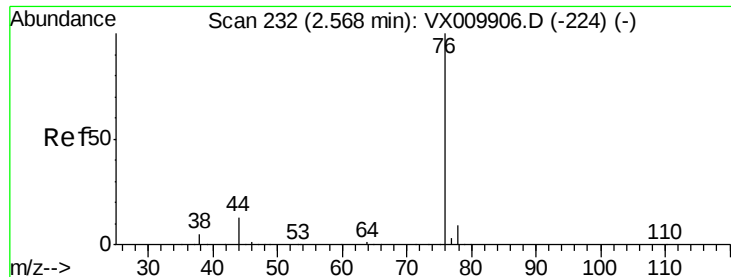
58 35.8 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.717 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampled :

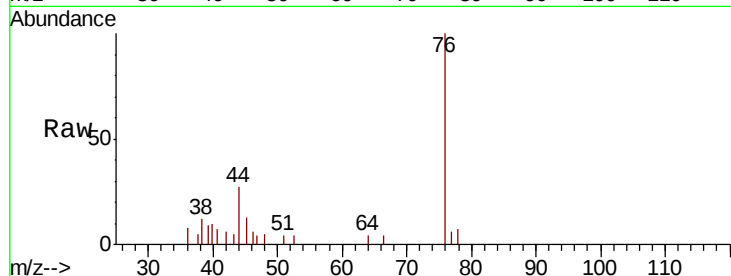
S32-0652

Tot Ion: 76 Resp: 1865

Ion Ratio Lower Upper

76 100

78 7.5 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

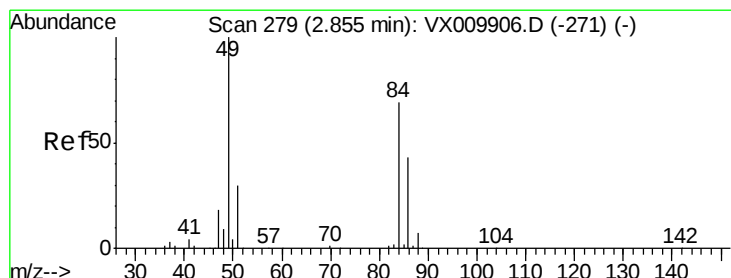
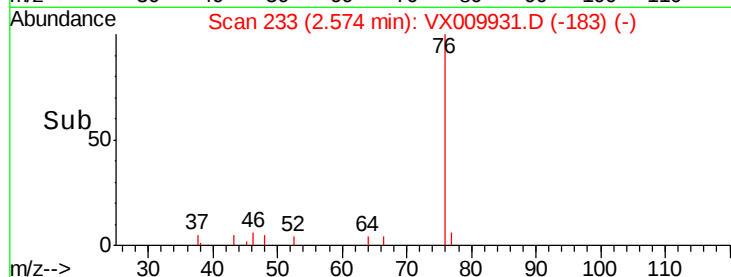
2.57

1000

500

0

Time--> 2.50 2.55 2.60



#20

Methylene Chloride

Concen: 0.239 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Tgt Ion: 84 Resp: 541

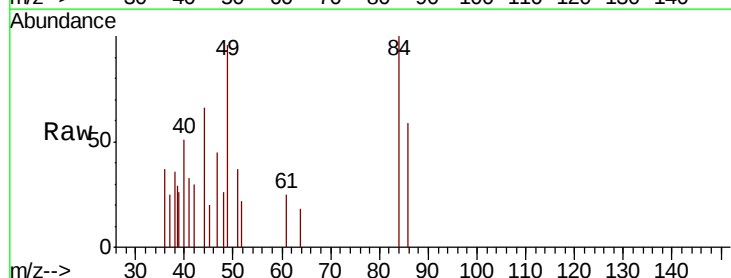
Ion Ratio Lower Upper

84 100

49 73.5 115.8 173.6#

51 20.5 34.4 51.6#

86 58.6 49.7 74.5



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

400

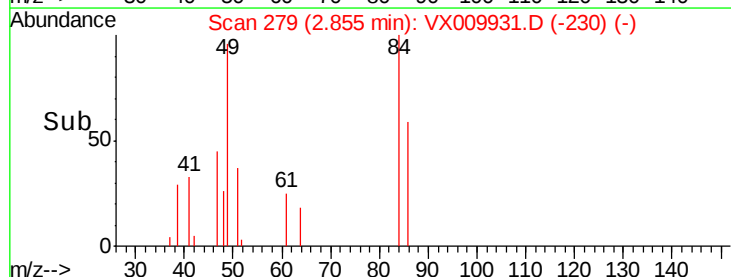
300

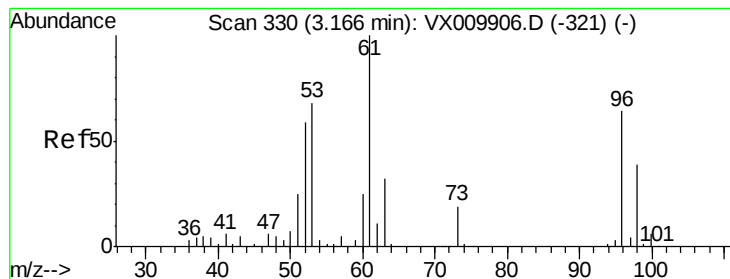
200

100

0

Time--> 2.80 2.85 2.90





#21

trans-1,2-Dichloroethene

Concen: 8.697 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

S32-0652

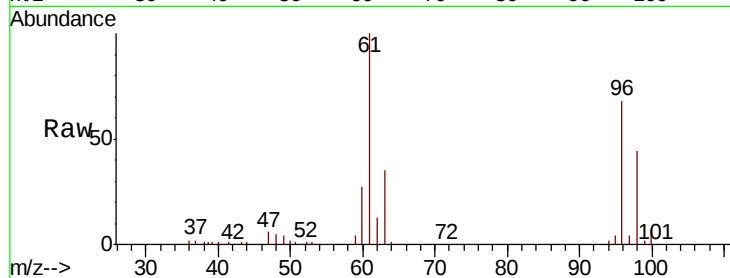
Tot Ion: 96 Resp: 17782

Ion Ratio Lower Upper

96 100

61 147.7 125.7 188.5

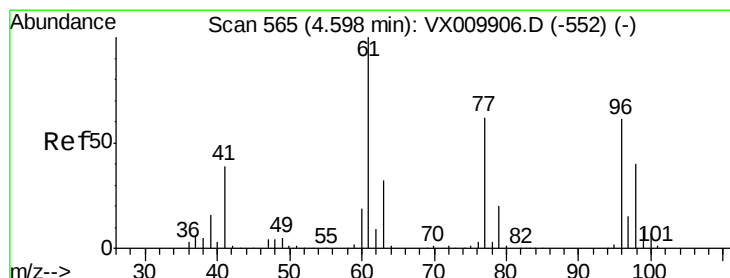
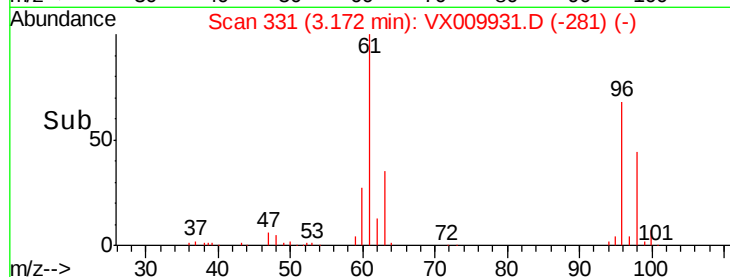
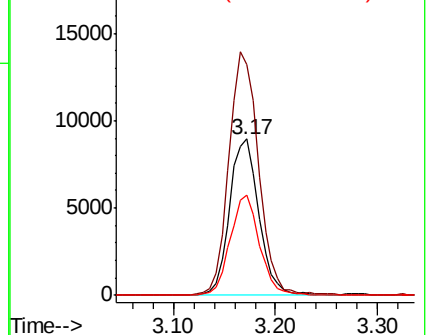
98 64.4 49.0 73.6



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



#27

cis-1,2-Dichloroethene

Concen: 151.988 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

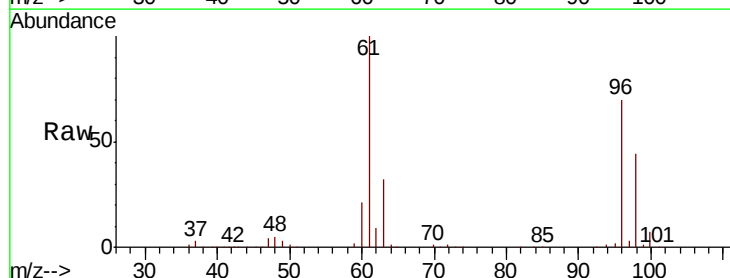
Tgt Ion: 96 Resp: 358725

Ion Ratio Lower Upper

96 100

61 144.7 0.0 334.0

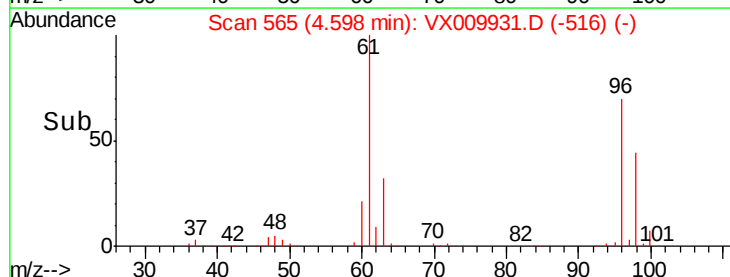
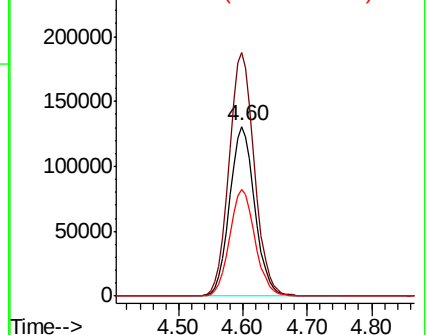
98 63.5 0.0 131.6

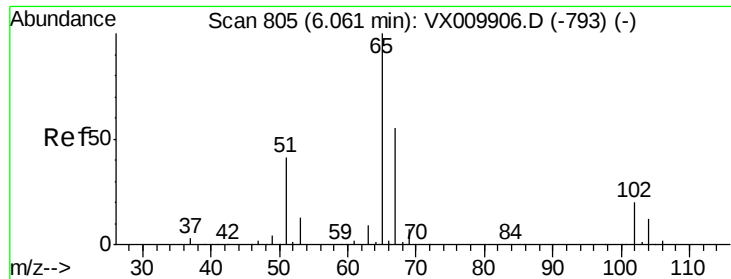


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

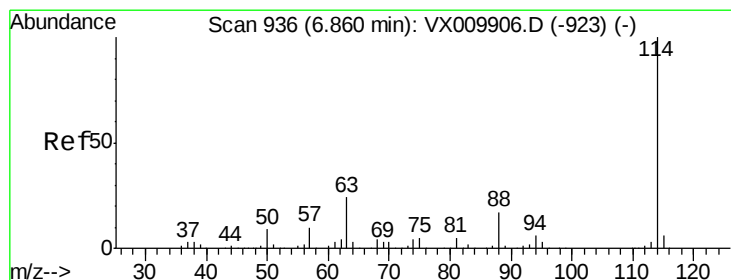
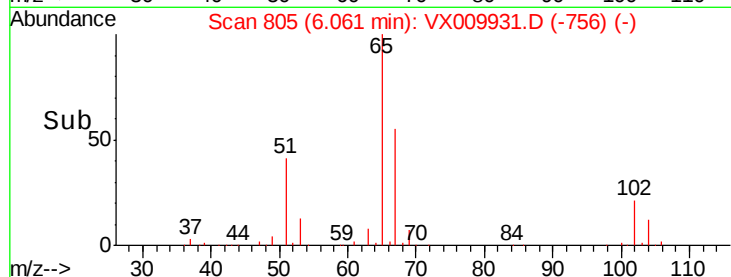
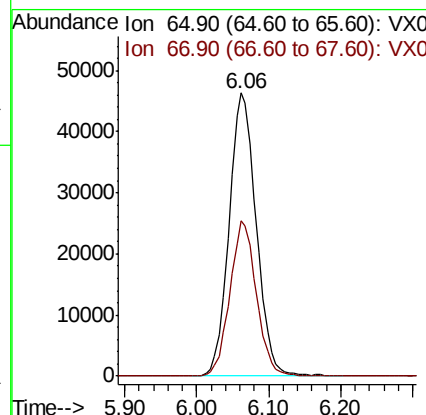
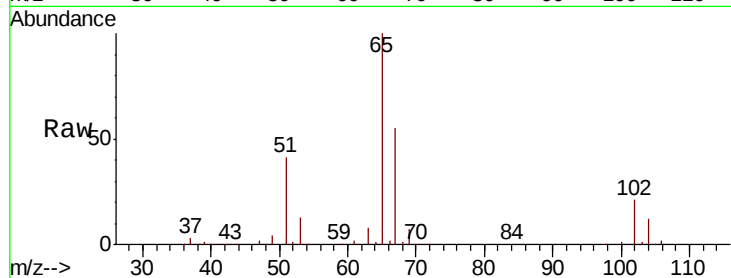




#33
 1,2-Dichloroethane-d4
 Concen: 47.287 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009931.D
 Acq: 29 May 2019 11:45

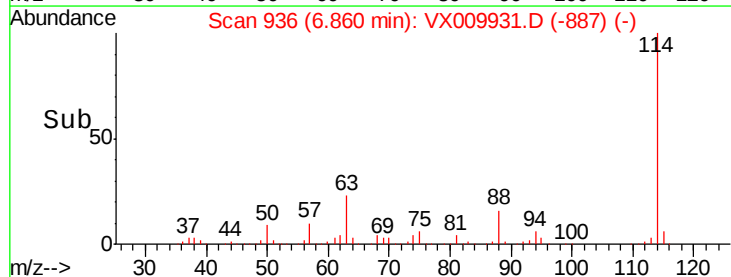
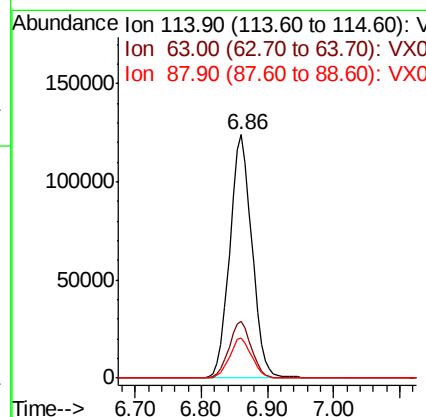
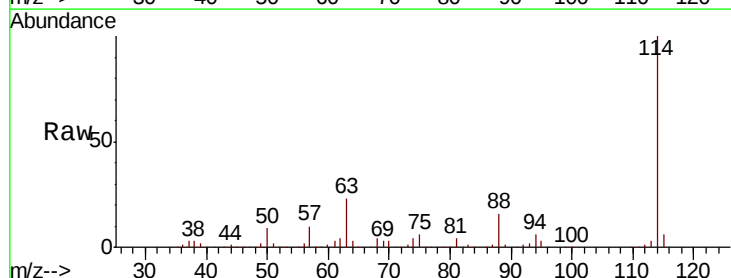
Instrument :
 MSVOA_X
 ClientSampled :
 S32-0652

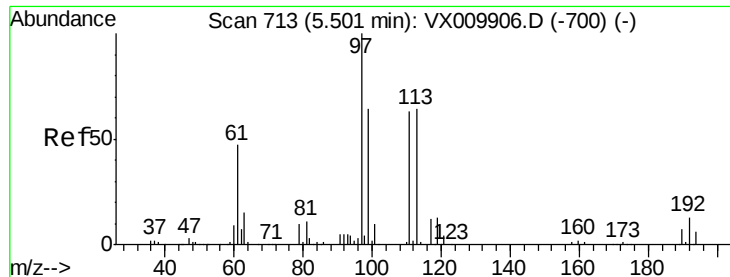
Tot Ion: 65 Resp: 121205
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009931.D
 Acq: 29 May 2019 11:45

Tgt Ion: 114 Resp: 288902
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 47.4
 88 16.4 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.870 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

S32-0652

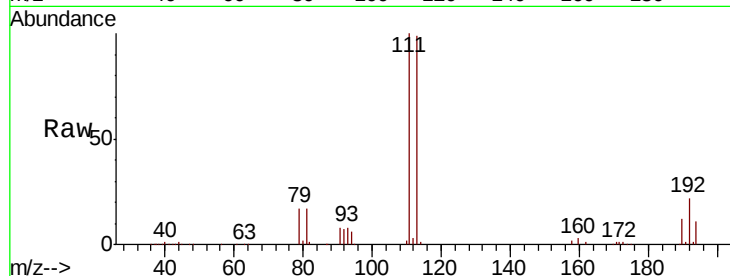
Tot Ion:113 Resp: 88765

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

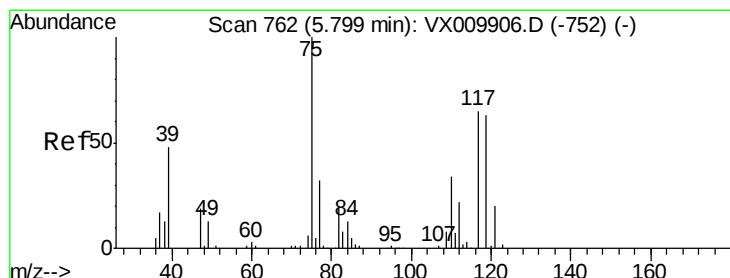
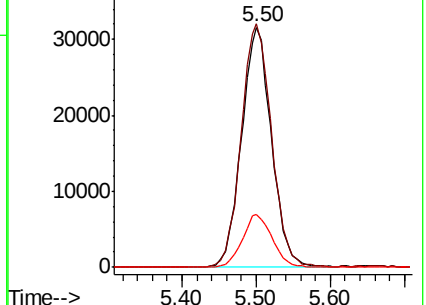
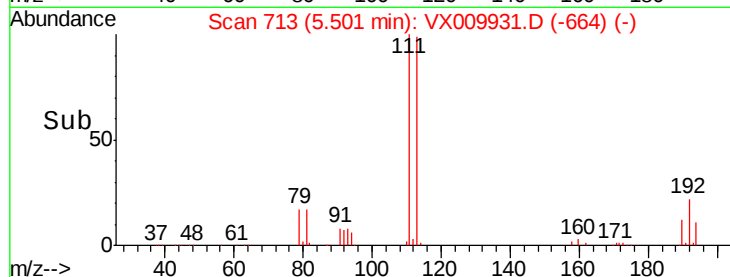
192 22.0 17.1 25.7



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: 4.930 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

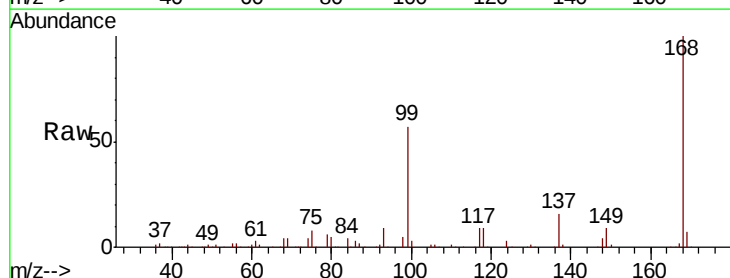
Tgt Ion: 75 Resp: 14451

Ion Ratio Lower Upper

75 100

110 8.9 16.7 50.1#

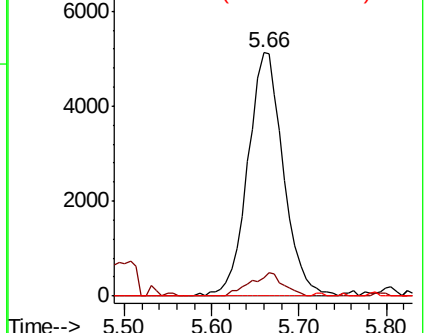
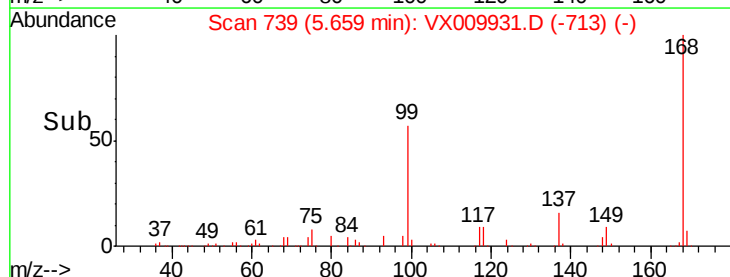
77 0.0 25.0 37.4#

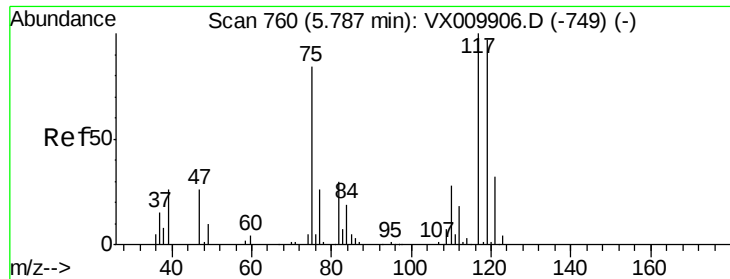


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.715 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

S32-0652

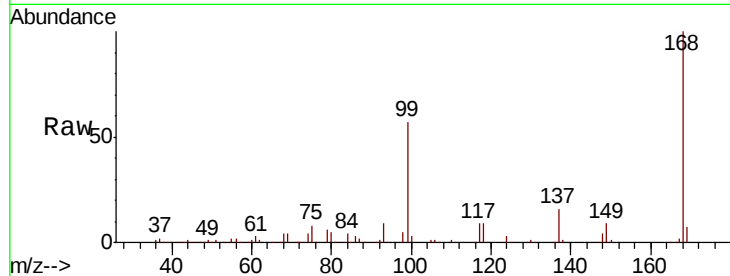
Tot Ion:117 Resp: 17010

Ion Ratio Lower Upper

117 100

119 3.8 77.3 115.9#

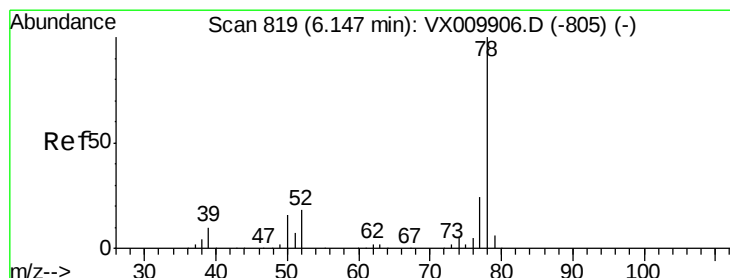
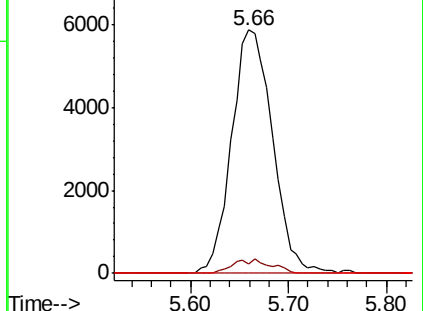
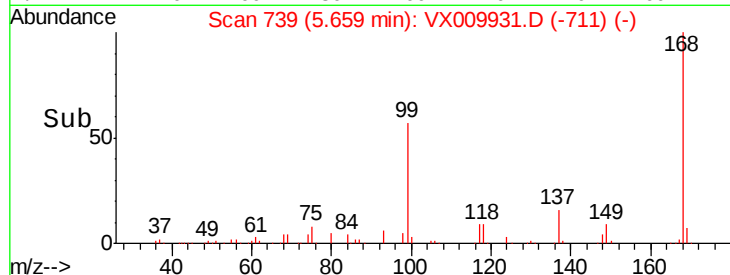
121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.219 ug/l

RT: 6.15 min Scan# 820

Delta R.T. 0.01 min

Lab File: VX009931.D

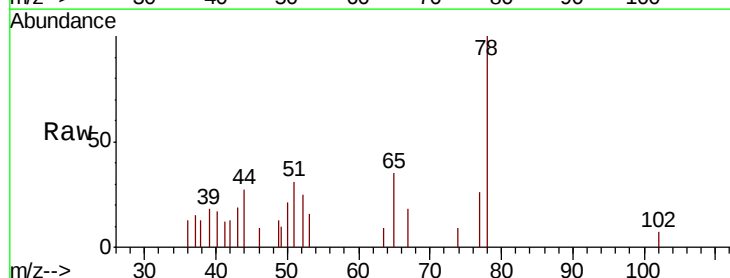
Acq: 29 May 2019 11:45

Tgt Ion: 78 Resp: 1901

Ion Ratio Lower Upper

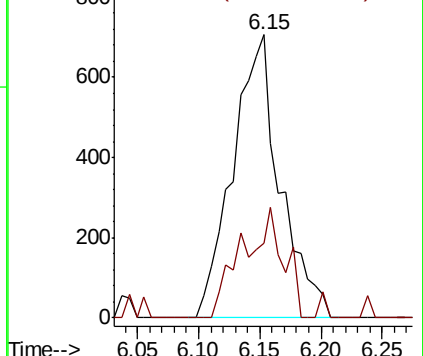
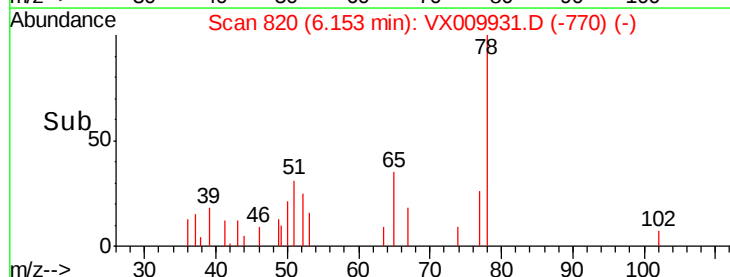
78 100

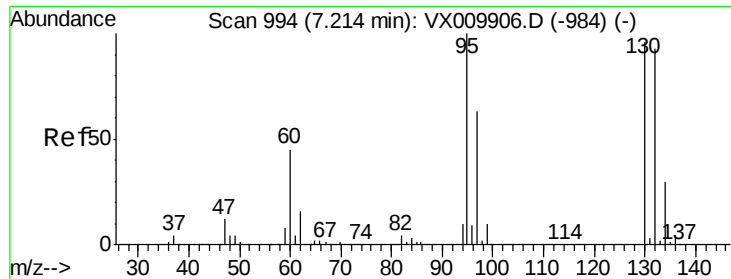
77 26.2 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

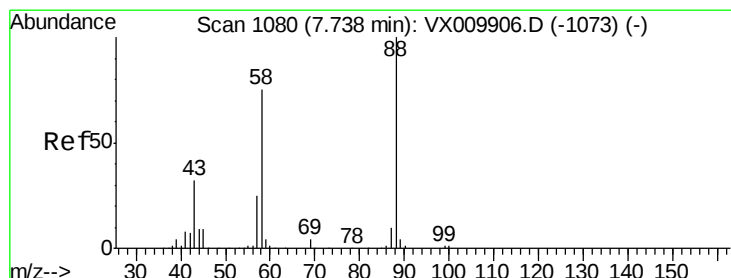
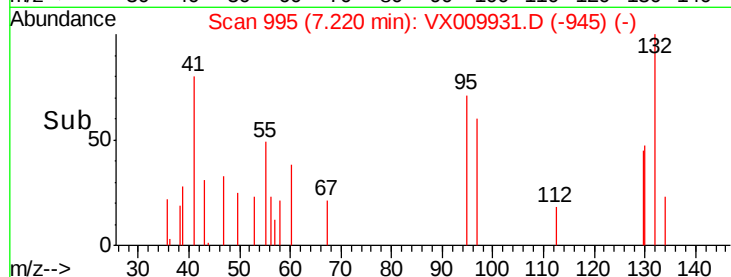
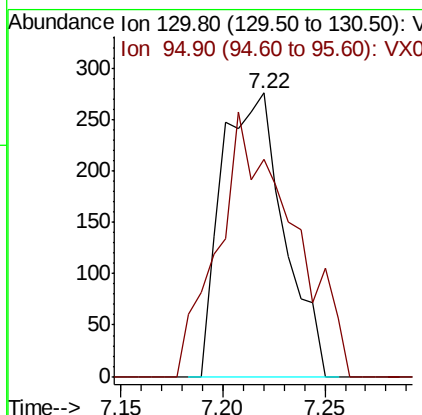
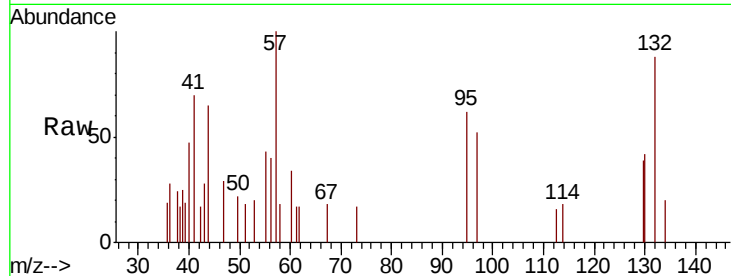




#44
 Trichloroethene
 Concen: 0.278 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX009931.D
 Acq: 29 May 2019 11:45

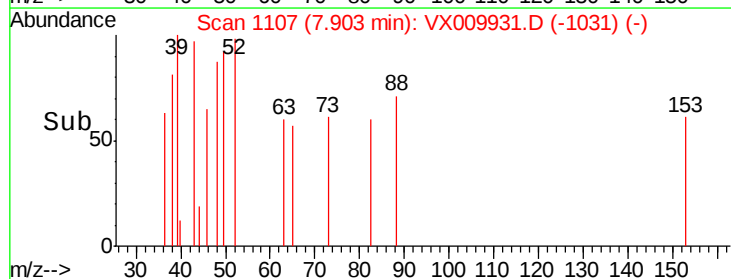
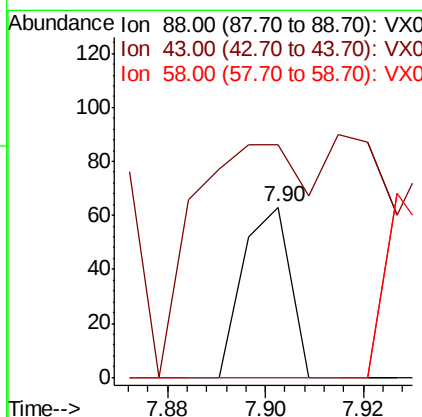
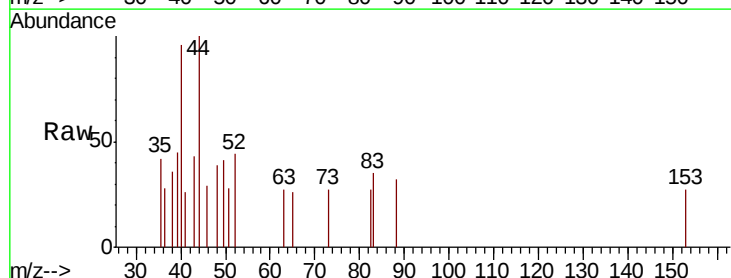
Instrument :
 MSVOA_X
 ClientSampled :
 S32-0652

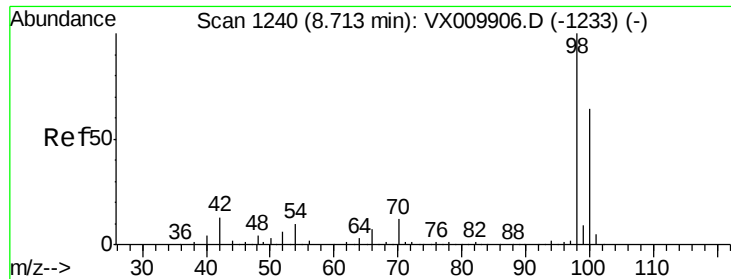
Tot Ion:130 Resp: 587
 Ion Ratio Lower Upper
 130 100
 95 56.2 0.0 207.4



#49
 1,4-Dioxane
 Concen: 0.692 ug/l
 RT: 7.90 min Scan# 1107
 Delta R.T. 0.16 min
 Lab File: VX009931.D
 Acq: 29 May 2019 11:45

Tgt Ion: 88 Resp: 42
 Ion Ratio Lower Upper
 88 100
 43 333.3 30.2 45.4#
 58 0.0 64.0 96.0#





#50

Toluene-d8

Concen: 49.434 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampled :

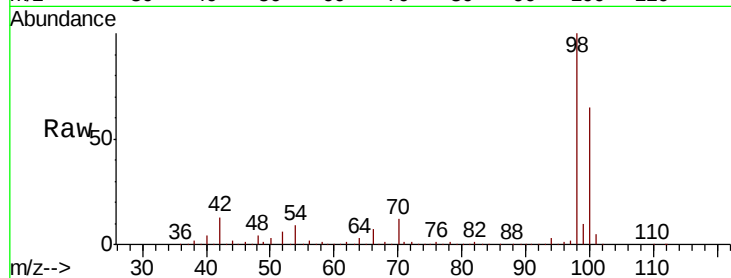
S32-0652

Tot Ion: 98 Resp: 364610

Ion Ratio Lower Upper

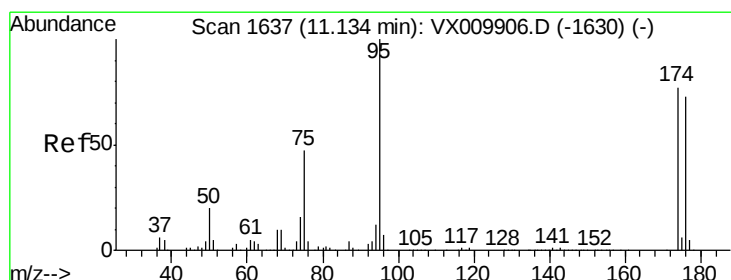
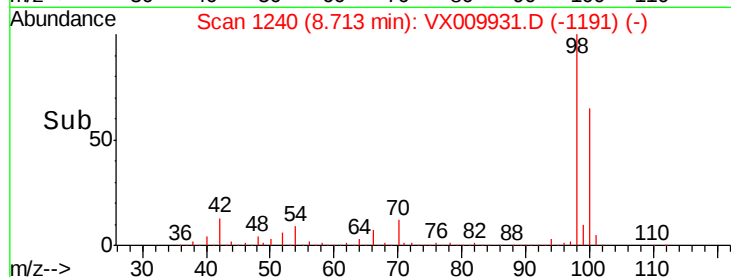
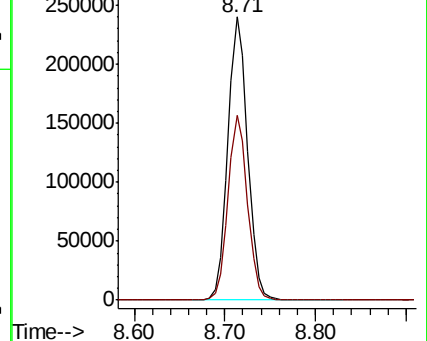
98 100

100 64.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 46.705 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

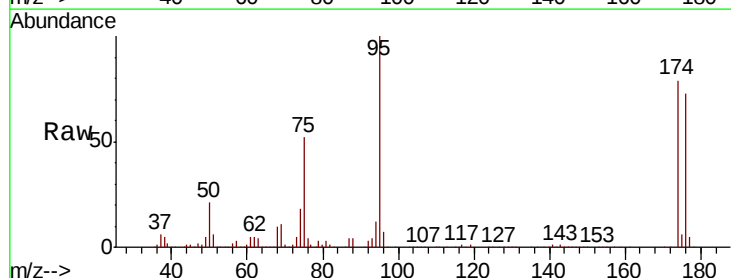
Tgt Ion: 95 Resp: 123733

Ion Ratio Lower Upper

95 100

174 83.1 0.0 160.4

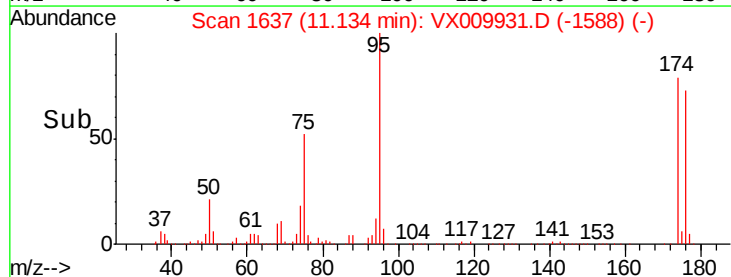
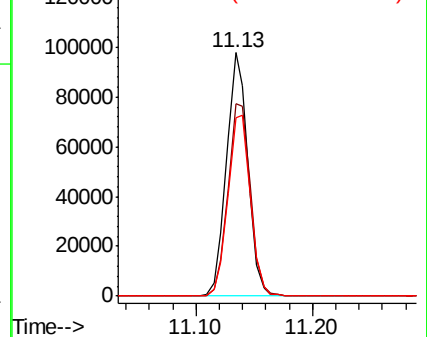
176 78.5 0.0 154.6

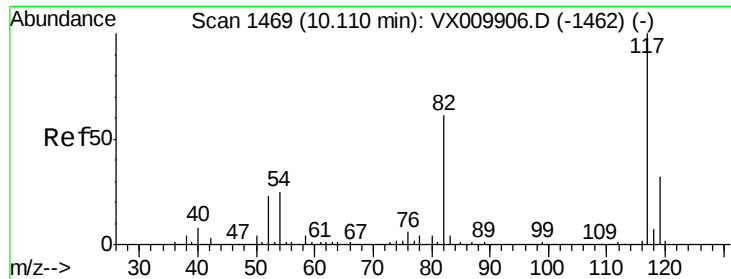


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

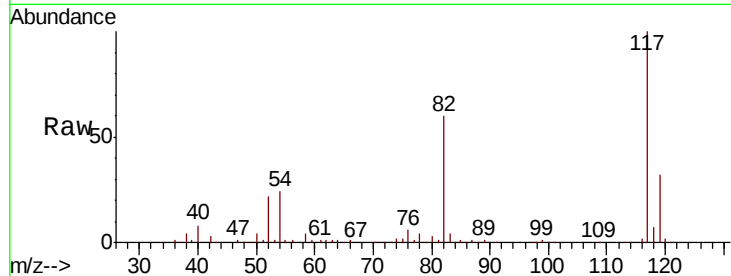




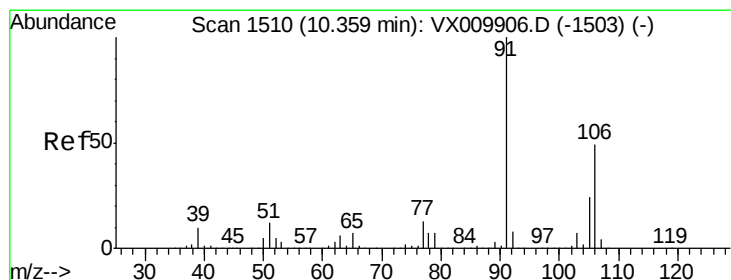
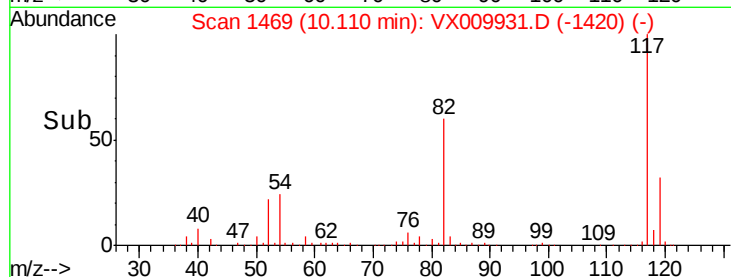
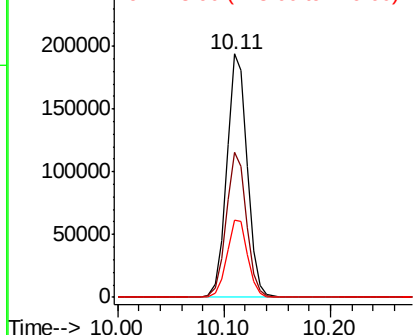
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

Instrument :
MSVOA_X
ClientSampled :
S32-0652

Tot Ion:117 Resp: 260171
Ion Ratio Lower Upper
117 100
82 59.8 49.2 73.8
119 31.7 25.2 37.8

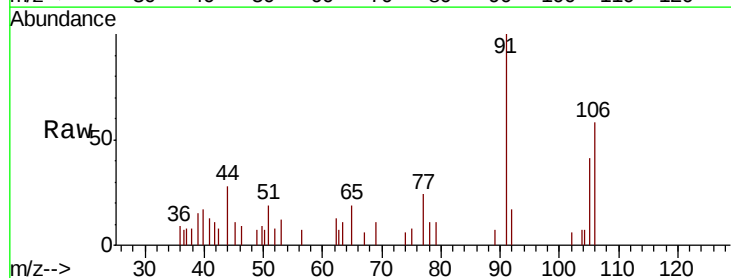


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

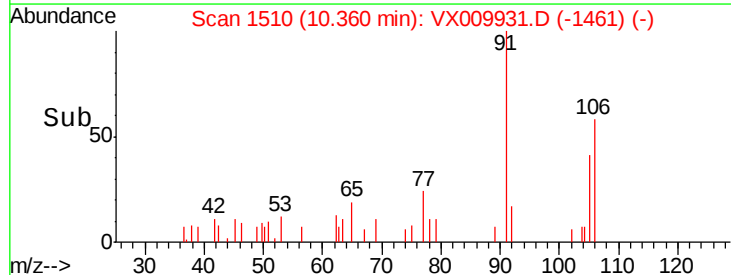
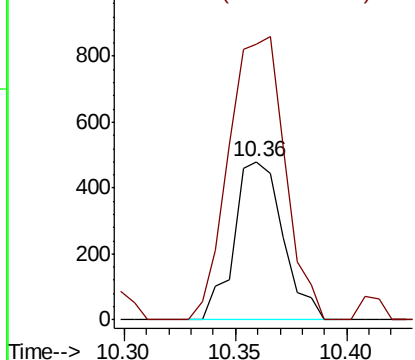


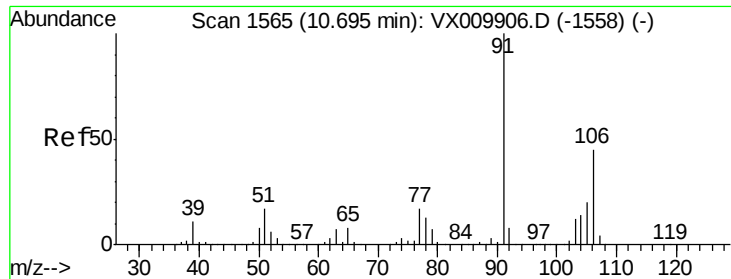
#68
m/p-Xylenes
Concen: 0.204 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

Tgt Ion:106 Resp: 736
Ion Ratio Lower Upper
106 100
91 205.0 167.3 250.9



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

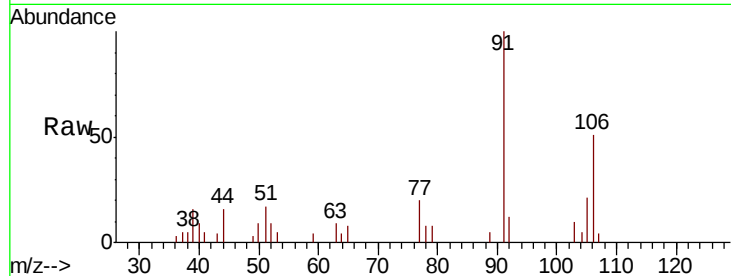




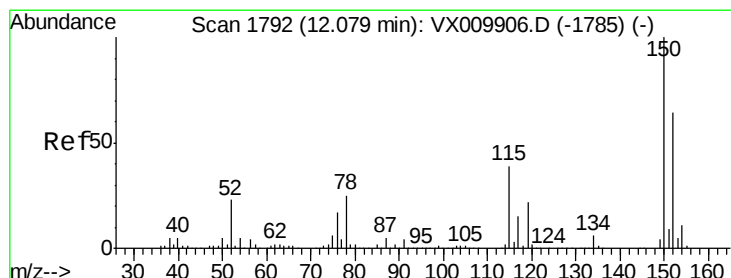
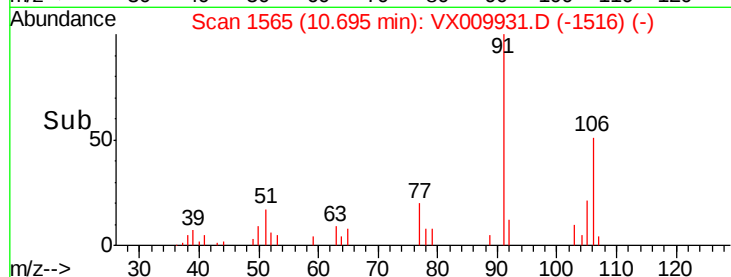
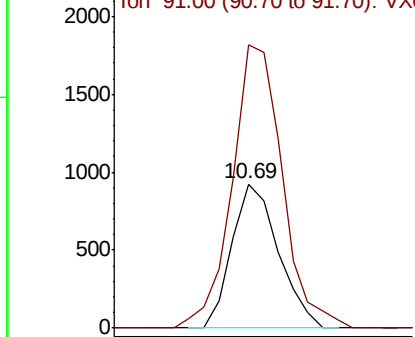
#69
o-Xylene
Concen: 0.353 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

Instrument :
MSVOA_X
ClientSampled :
S32-0652

Tot Ion:106 Resp: 1224
Ion Ratio Lower Upper
106 100
91 212.3 110.4 331.2

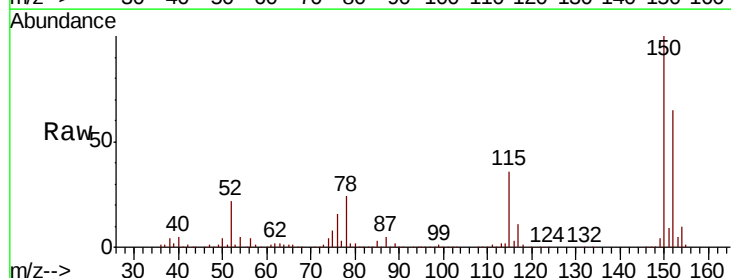


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

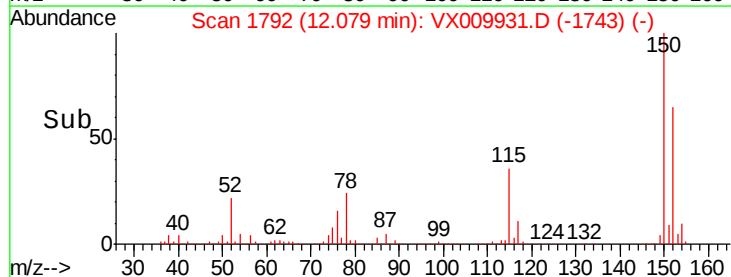
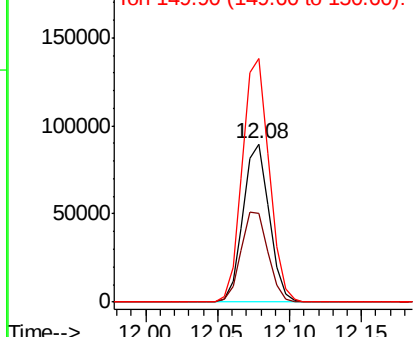


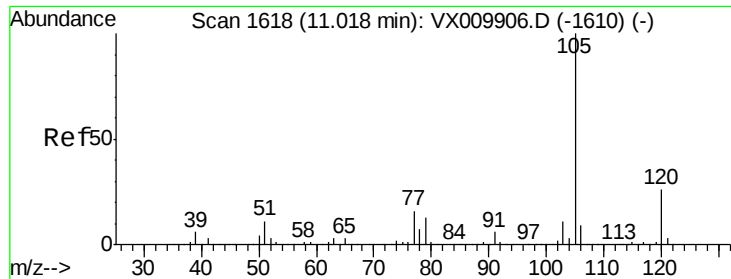
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009931.D
Acq: 29 May 2019 11:45

Tgt Ion:152 Resp: 113101
Ion Ratio Lower Upper
152 100
115 58.7 41.4 124.2
150 157.5 0.0 345.2



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





#73

Isopropylbenzene

Concen: 0.206 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

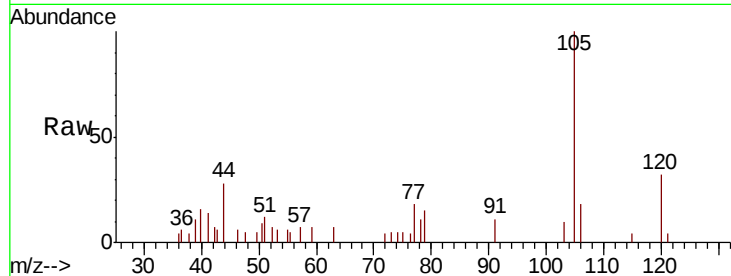
S32-0652

Tot Ion:105 Resp: 1718

Ion Ratio Lower Upper

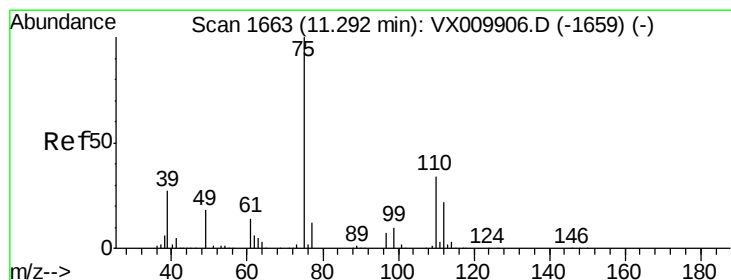
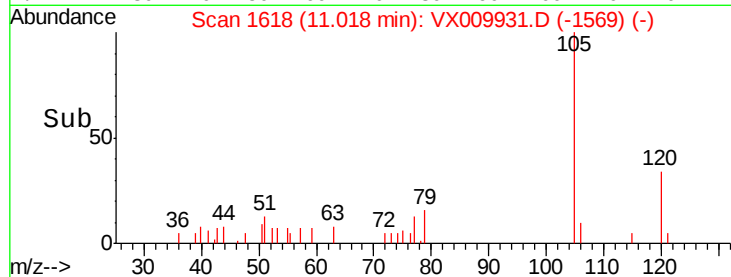
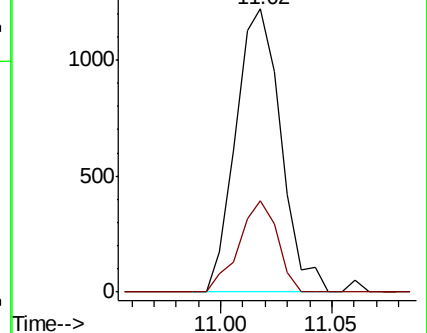
105 100

120 27.8 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 23.650 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009931.D

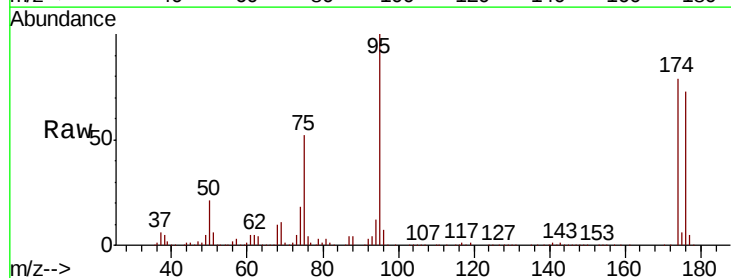
Acq: 29 May 2019 11:45

Tgt Ion: 75 Resp: 63964

Ion Ratio Lower Upper

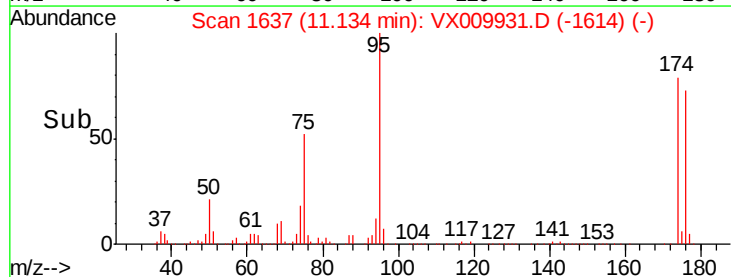
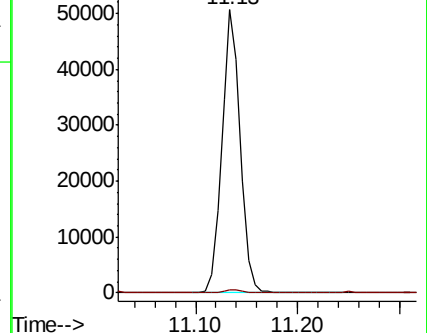
75 100

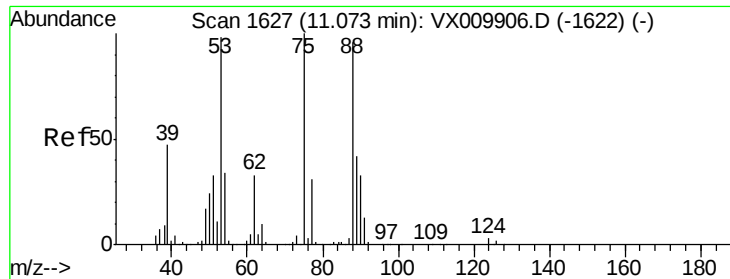
77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.514 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009931.D

Acq: 29 May 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

S32-0652

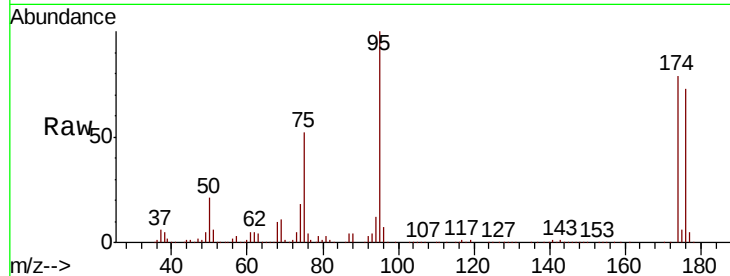
Tot Ion: 75 Resp: 63964

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

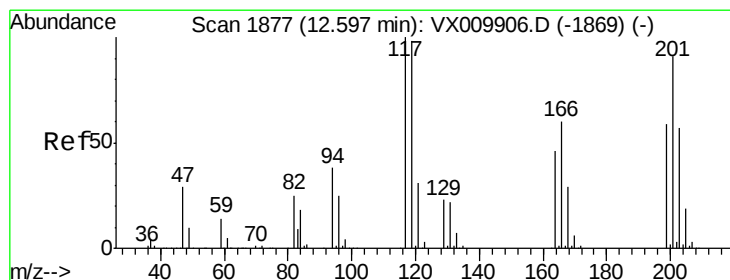
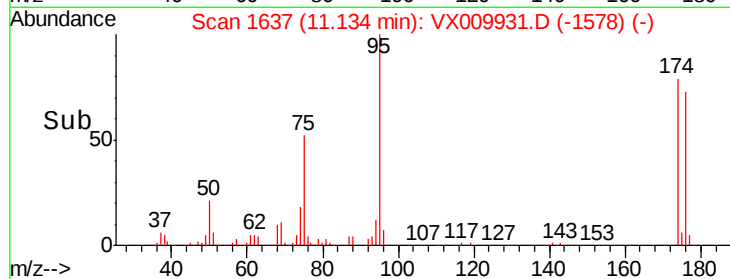
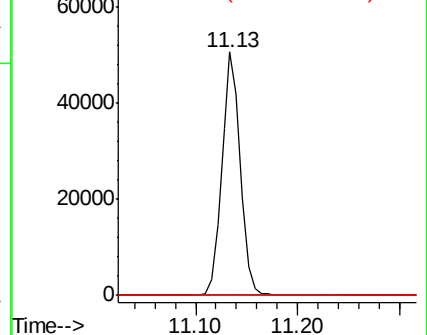
89 0.0 34.2 51.4#



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



#90

Hexachloroethane

Concen: 0.262 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX009931.D

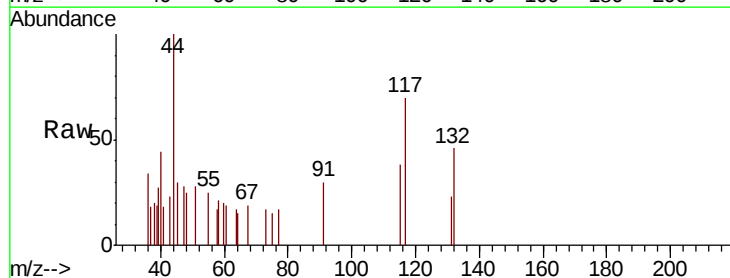
Acq: 29 May 2019 11:45

Tgt Ion: 117 Resp: 323

Ion Ratio Lower Upper

117 100

201 0.0 43.6 130.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

