

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052919\
 Data File : VX009939.D
 Acq On : 29 May 2019 14:53
 Operator : JC/SP
 Sample : K3077-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0662

Quant Time: May 30 01:14:52 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	178176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	285351	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258719	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112111	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	122576	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	
35) Dibromofluoromethane	5.50	113	88355	49.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.50%	
50) Toluene-d8	8.71	98	365776	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	
62) 4-Bromofluorobenzene	11.13	95	121582	46.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.92%	

Target Compounds

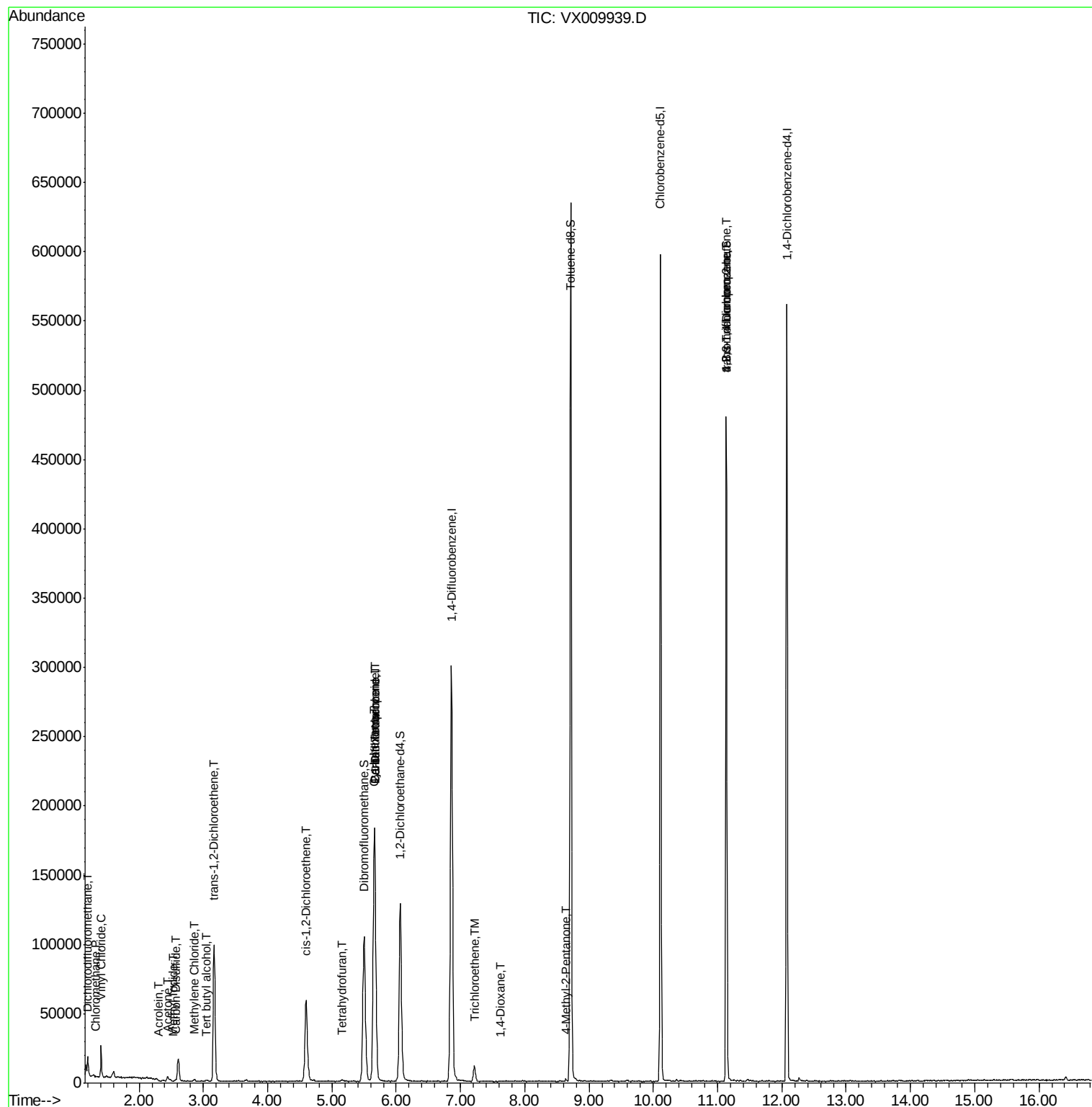
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	7267	3.338	ug/l	97
3) Chloromethane	1.33	50	661	0.226	ug/l #	88
4) Vinyl Chloride	1.41	62	14841	5.624	ug/l	99
10) Methyl Iodide	2.53	142	159	4.723	ug/l #	42
11) Tert butyl alcohol	3.04	59	654	1.056	ug/l #	93
13) Acrolein	2.30	56	19	21.137	ug/l #	1
16) Acetone	2.44	43	4061	2.793	ug/l	90
17) Carbon Disulfide	2.57	76	1719	0.697	ug/l	95
20) Methylene Chloride	2.85	84	499	0.224	ug/l	84
21) trans-1,2-Dichloroethene	3.17	96	38641	19.246	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	35555	15.341	ug/l	89
29) Tetrahydrofuran	5.15	42	1108	0.763	ug/l #	54
31) Cyclohexane	5.65	56	4108	1.073	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14160	4.891	ug/l #	50
38) Carbon Tetrachloride	5.67	117	17243	6.892	ug/l #	16
44) Trichloroethene	7.22	130	4022	1.928	ug/l	95
49) 1,4-Dioxane	7.62	88	19	0.317	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1134	0.268	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	64068	23.898	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64068	59.127	ug/l #	10

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

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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: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

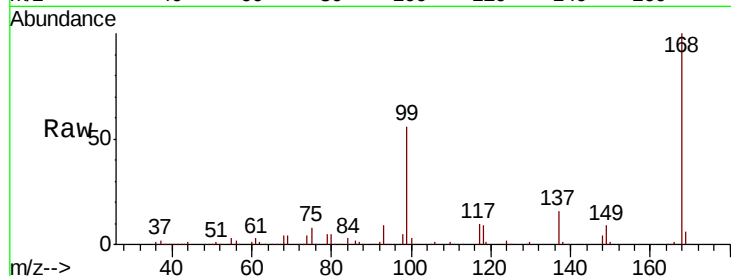
S32-0662

Tot Ion:168 Resp: 178176

Ion Ratio Lower Upper

168 100

99 56.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): VX009939.D (-691) (-)

Ion 98.90 (98.60 to 99.60): VX009939.D (-691) (-)

5.67

60000

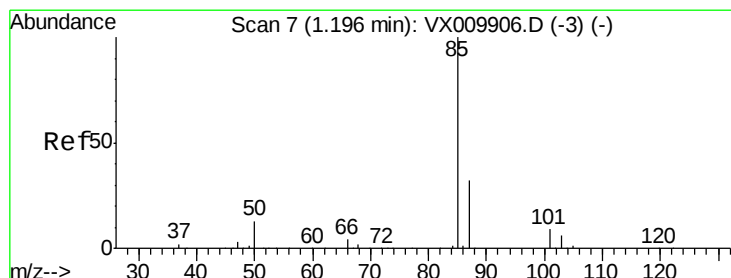
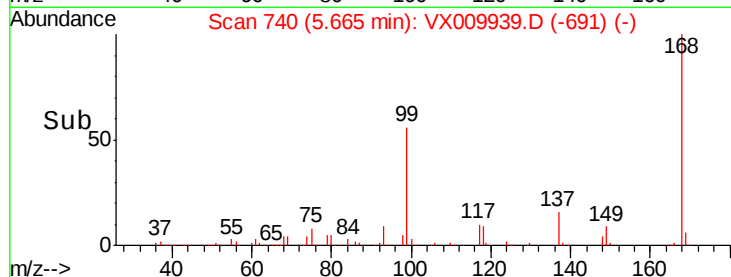
40000

20000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 3.338 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX009939.D

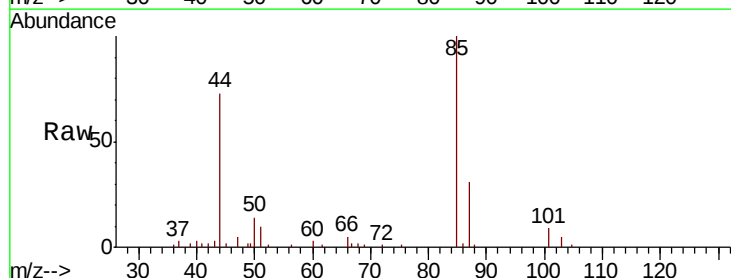
Acq: 29 May 2019 14:53

Tgt Ion: 85 Resp: 7267

Ion Ratio Lower Upper

85 100

87 30.5 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX009939.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VX009939.D (-1) (-)

1.20

6000

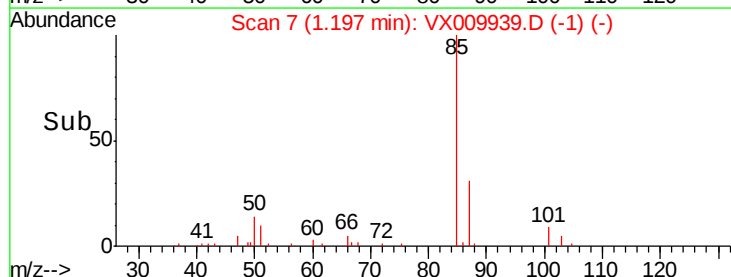
4000

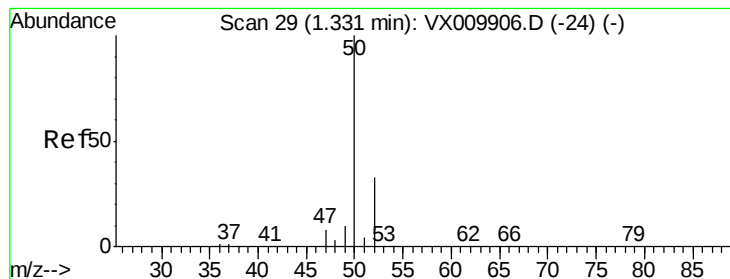
2000

0

1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 0.226 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

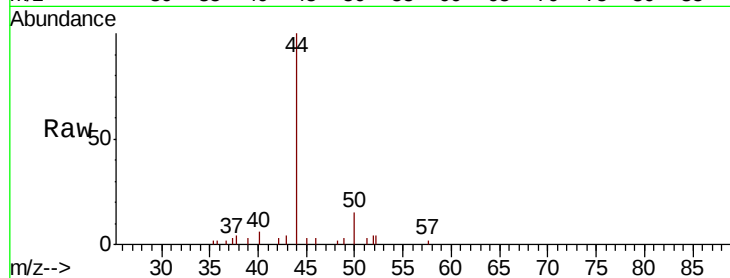
S32-0662

Tot Ion: 50 Resp: 661

Ion Ratio Lower Upper

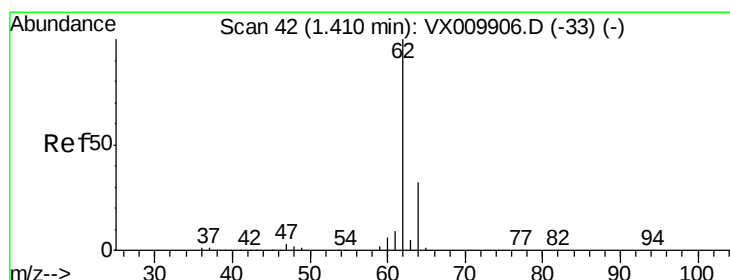
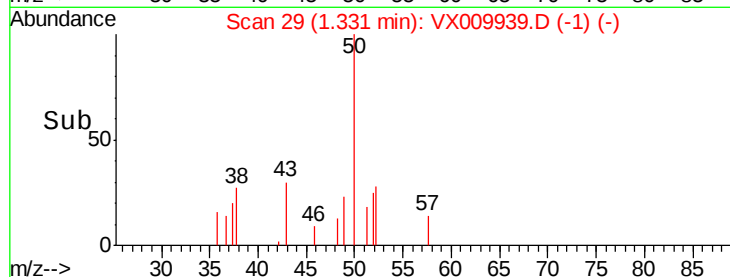
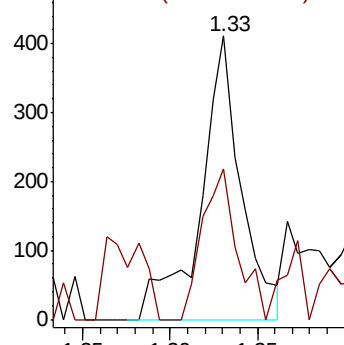
50 100

52 39.4 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 5.624 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009939.D

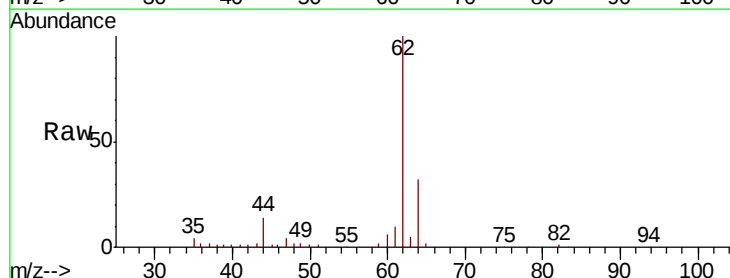
Acq: 29 May 2019 14:53

Tgt Ion: 62 Resp: 14841

Ion Ratio Lower Upper

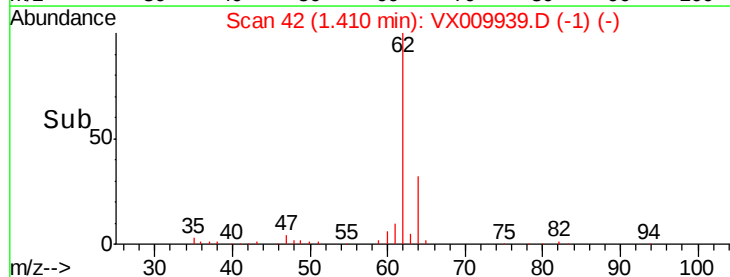
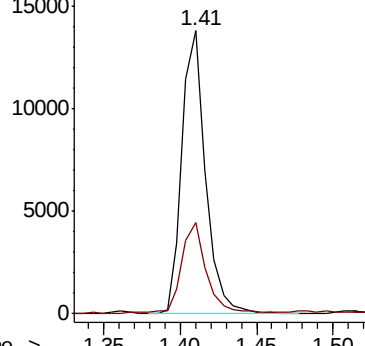
62 100

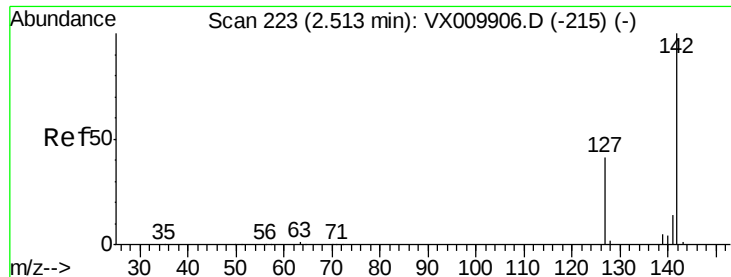
64 31.7 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

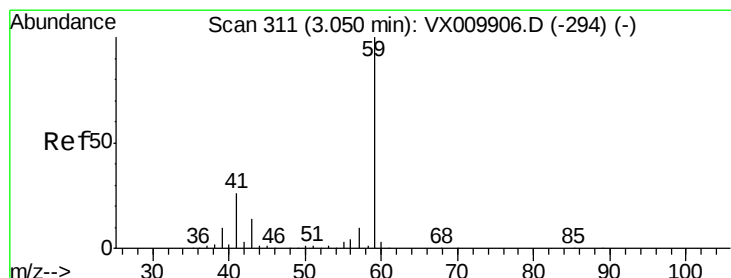
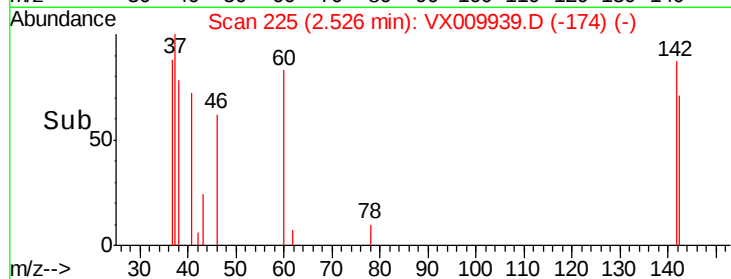
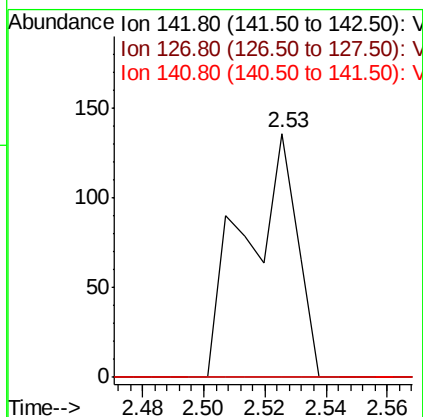
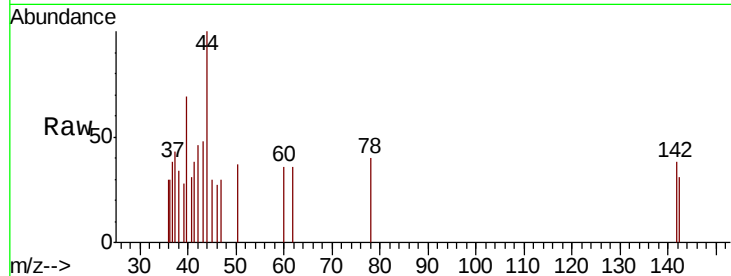




#10
Methyl Iodide
Concen: 4.723 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.01 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

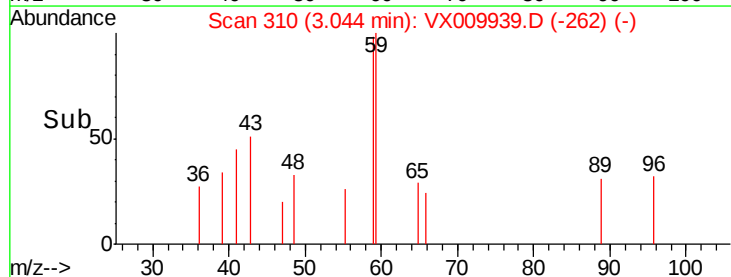
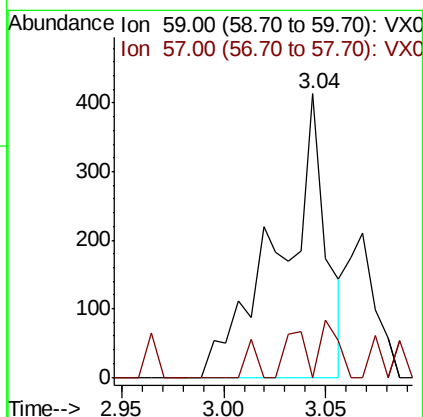
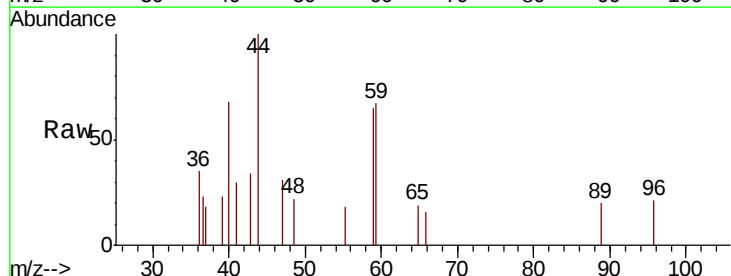
Instrument :
MSVOA_X
ClientSampleId :
S32-0662

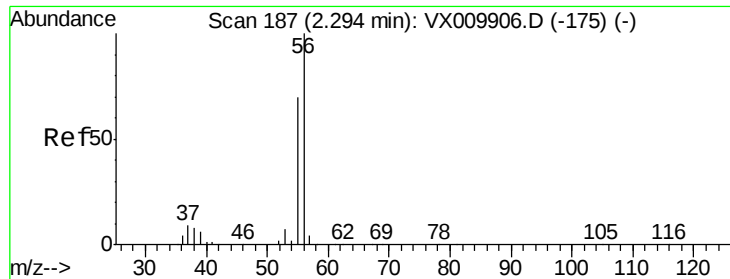
Tot Ion:142 Resp: 159
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.056 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

Tgt Ion: 59 Resp: 654
Ion Ratio Lower Upper
59 100
57 7.6 8.2 12.2#





#13

Acrolein

Concen: 21.137 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

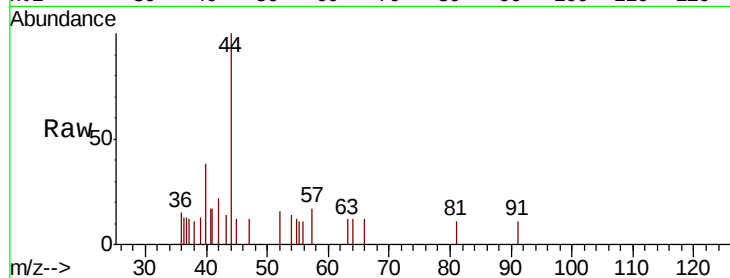
S32-0662

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

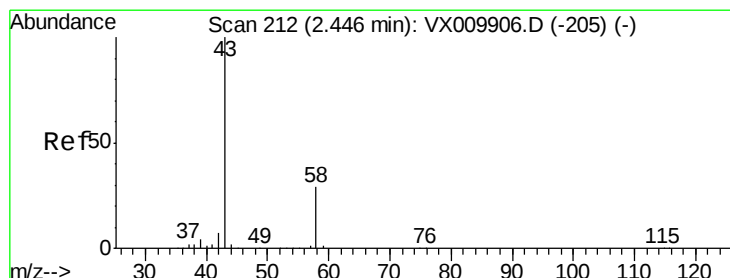
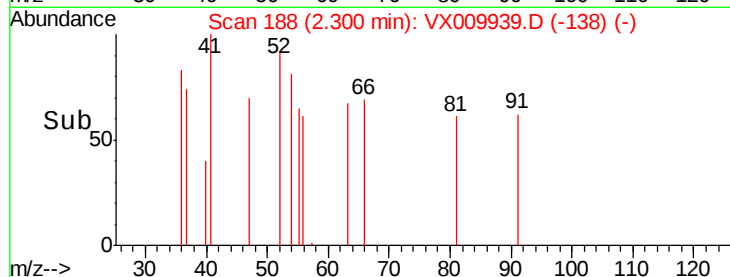
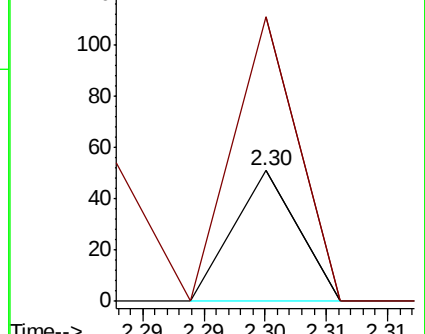
56 100

55 215.8 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.793 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009939.D

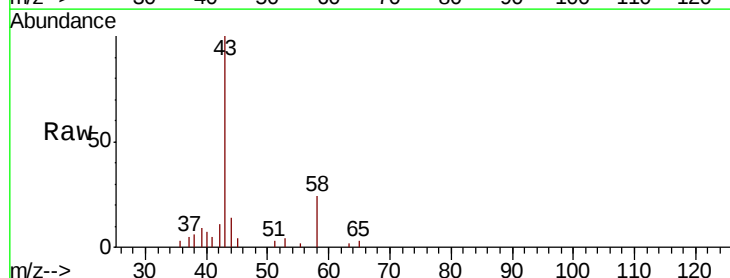
Acq: 29 May 2019 14:53

Tgt Ion: 43 Resp: 4061

Ion Ratio Lower Upper

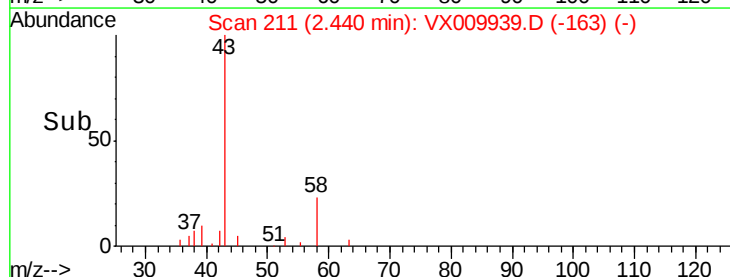
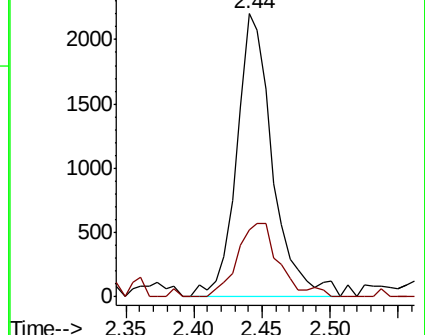
43 100

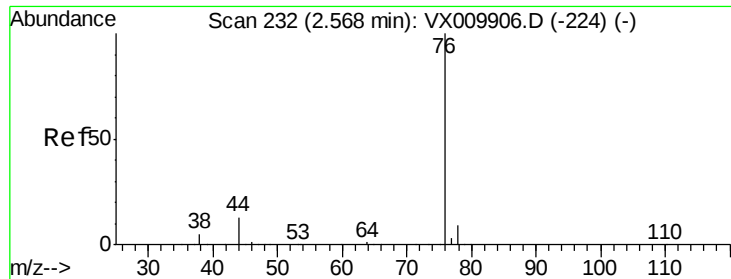
58 23.8 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.697 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

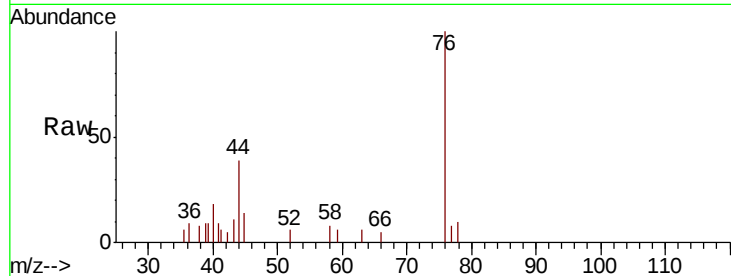
S32-0662

Tot Ion: 76 Resp: 1719

Ion Ratio Lower Upper

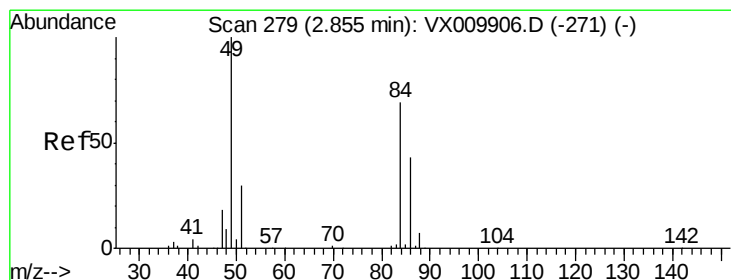
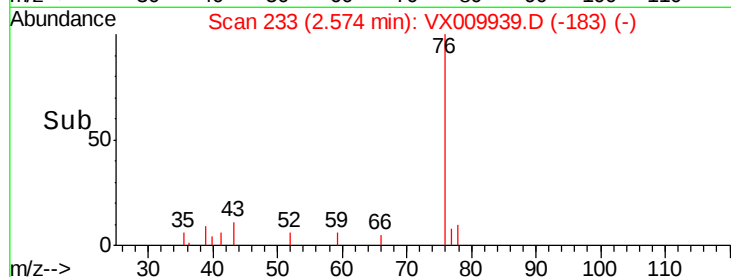
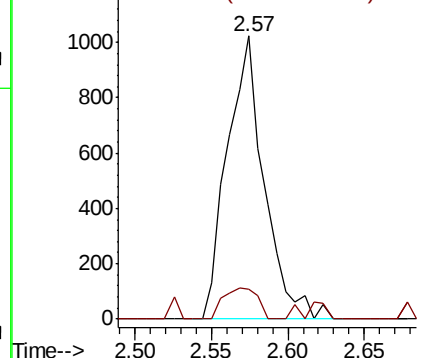
76 100

78 10.5 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.224 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Tgt Ion: 84 Resp: 499

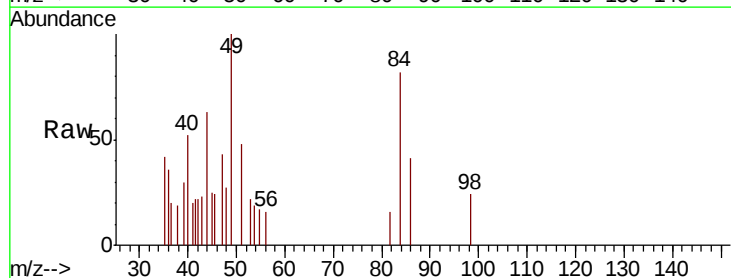
Ion Ratio Lower Upper

84 100

49 122.6 115.8 173.6

51 36.1 34.4 51.6

86 50.4 49.7 74.5

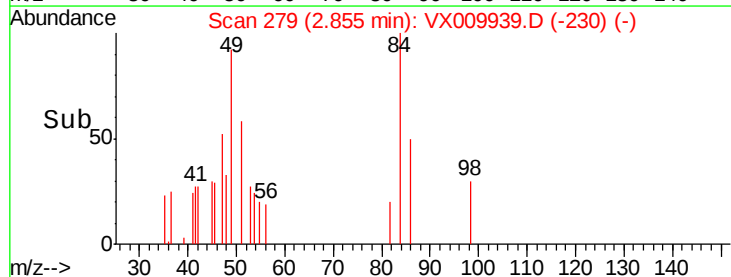
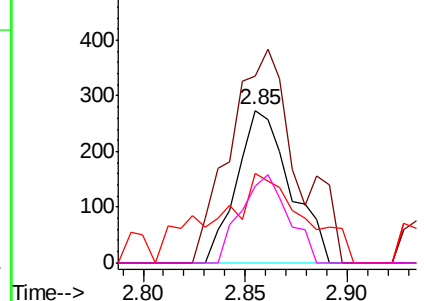


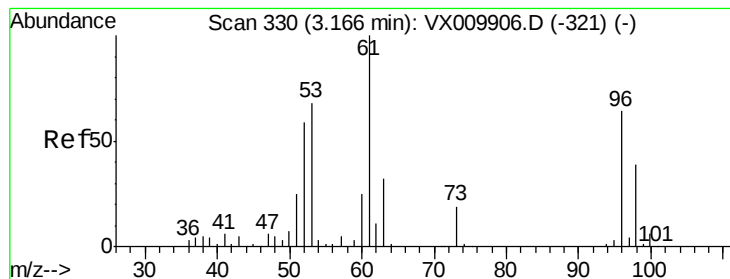
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#21

trans-1,2-Dichloroethene

Concen: 19.246 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

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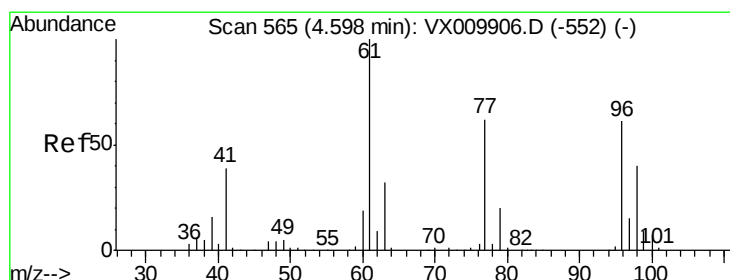
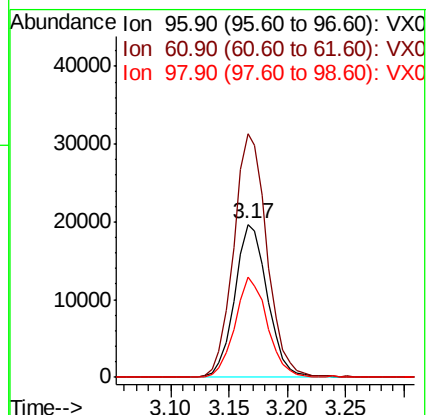
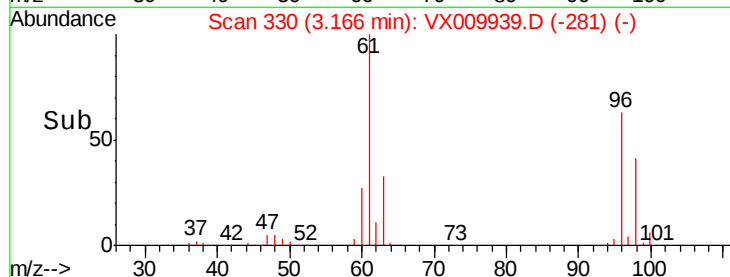
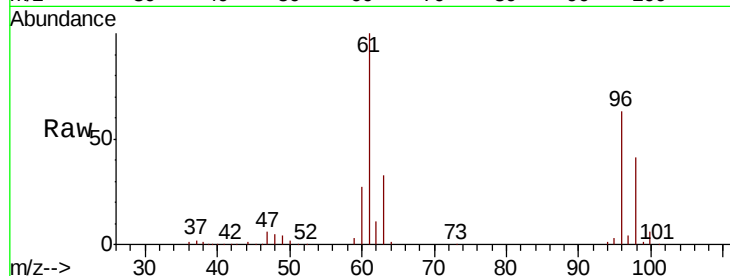
Tot Ion: 96 Resp: 38641

Ion Ratio Lower Upper

96 100

61 159.1 125.7 188.5

98 65.5 49.0 73.6



#27

cis-1,2-Dichloroethene

Concen: 15.341 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

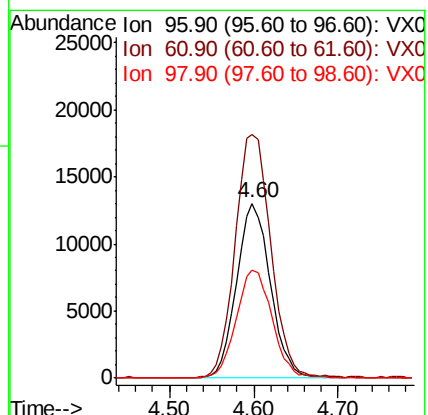
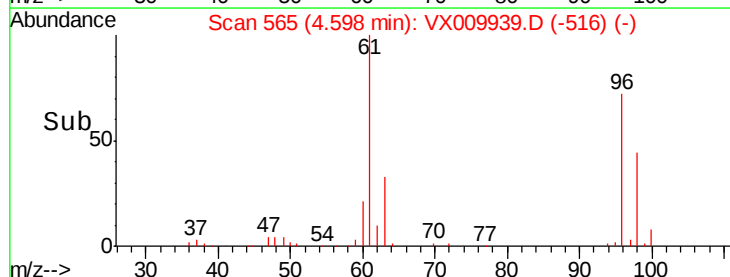
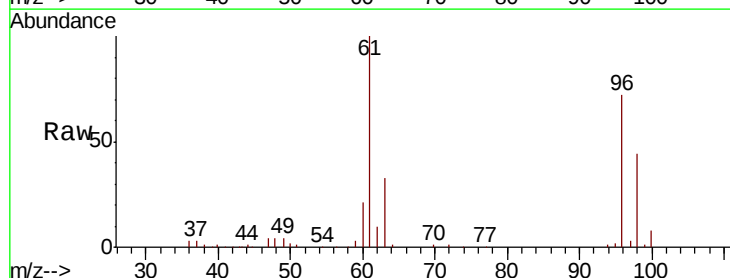
Tgt Ion: 96 Resp: 35555

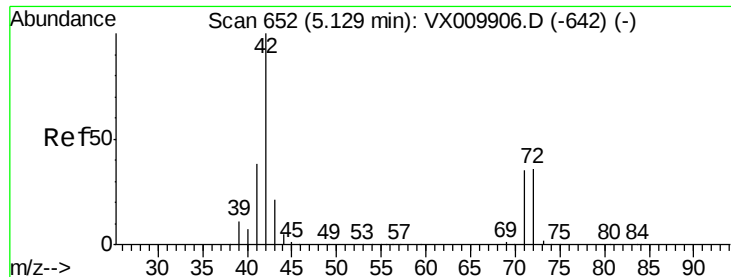
Ion Ratio Lower Upper

96 100

61 147.1 0.0 334.0

98 65.2 0.0 131.6

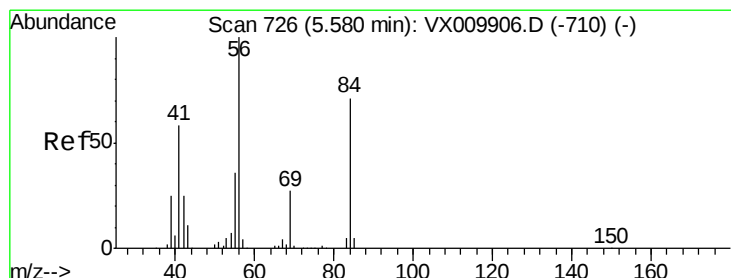
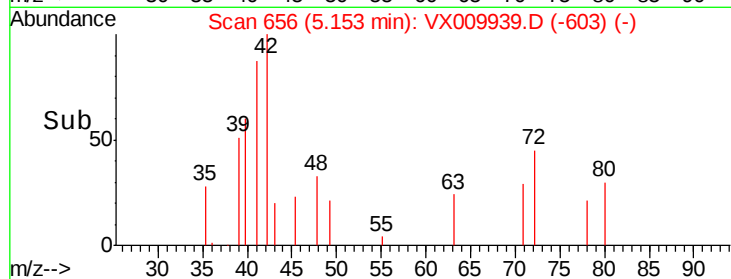
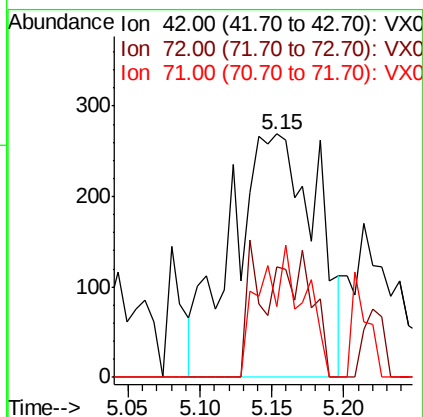
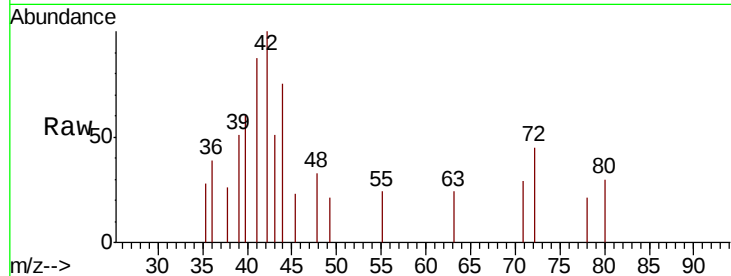




#29
Tetrahydrofuran
Concen: 0.763 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

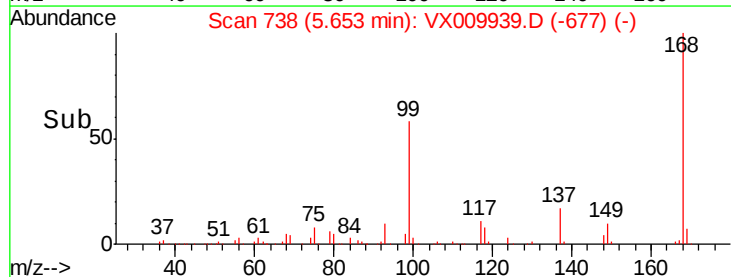
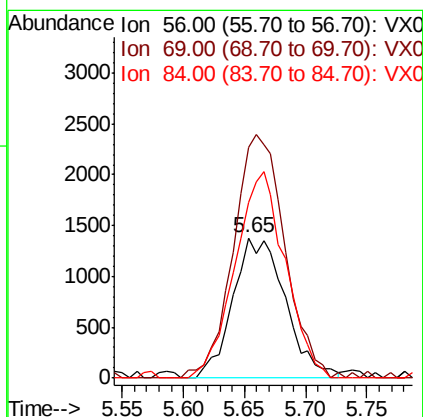
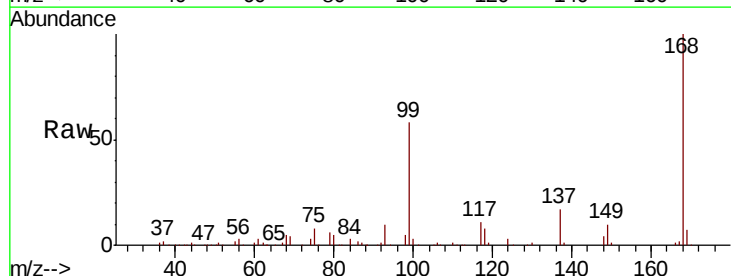
Instrument :
MSVOA_X
ClientSampleId :
S32-0662

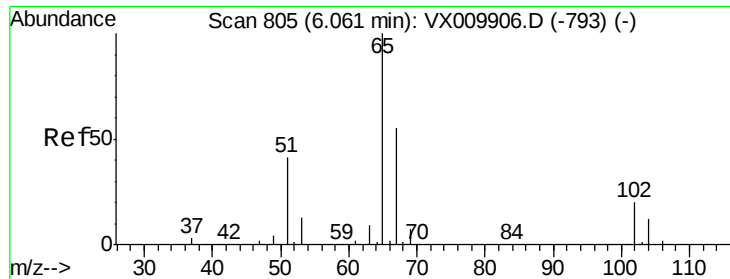
Tot Ion: 42 Resp: 1108
Ion Ratio Lower Upper
42 100
72 5.0 29.2 43.8#
71 12.8 27.6 41.4#



#31
Cyclohexane
Concen: 1.073 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

Tgt Ion: 56 Resp: 4108
Ion Ratio Lower Upper
56 100
69 160.3 21.6 32.4#
84 125.2 56.8 85.2#

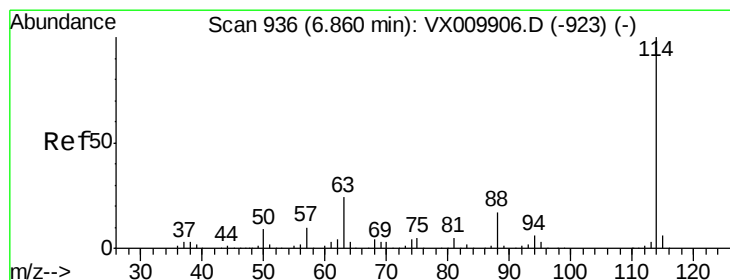
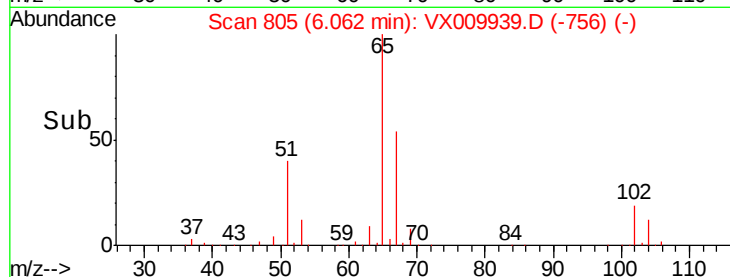
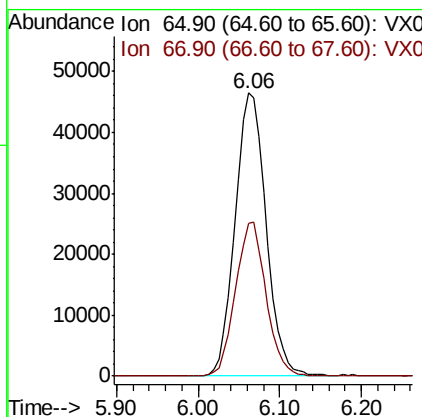
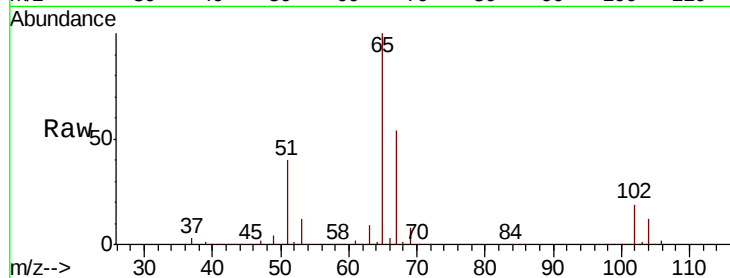




#33
 1,2-Dichloroethane-d4
 Concen: 48.701 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009939.D
 Acq: 29 May 2019 14:53

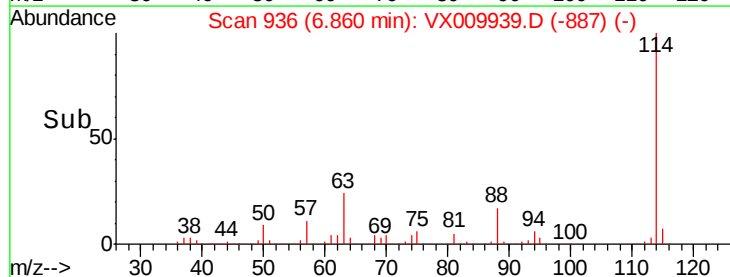
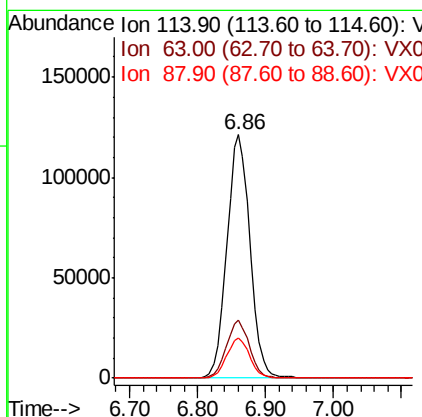
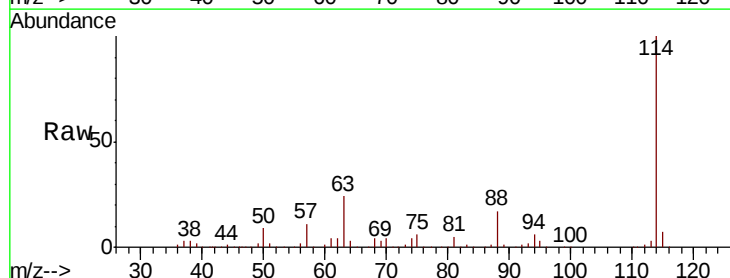
Instrument :
 MSVOA_X
 ClientSampled :
 S32-0662

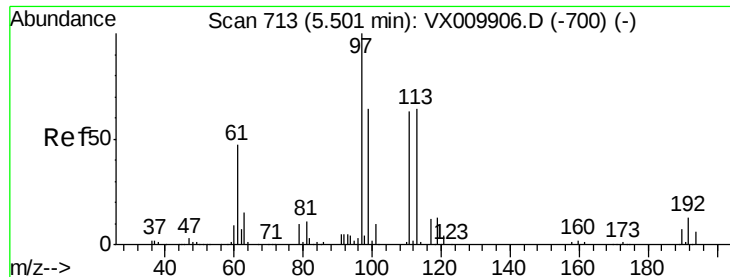
Tot Ion: 65 Resp: 122576
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009939.D
 Acq: 29 May 2019 14:53

Tgt Ion: 114 Resp: 285351
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 47.4
 88 16.6 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.250 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

S32-0662

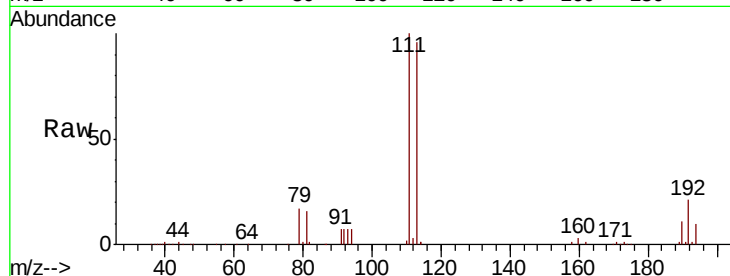
Tot Ion:113 Resp: 88355

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.2

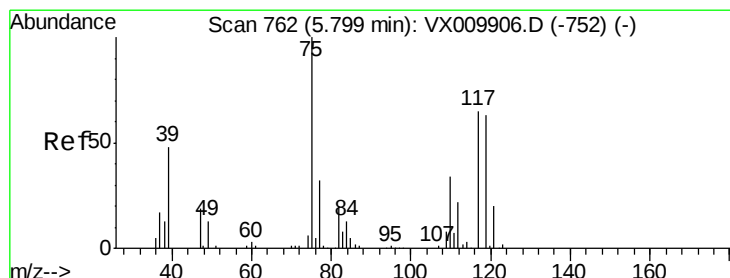
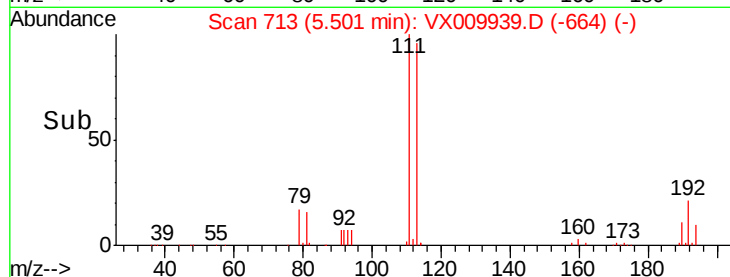
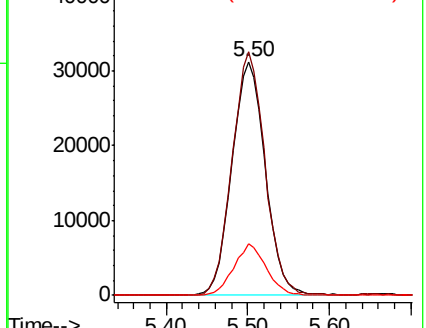
192 21.2 17.1 25.7



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: 4.891 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

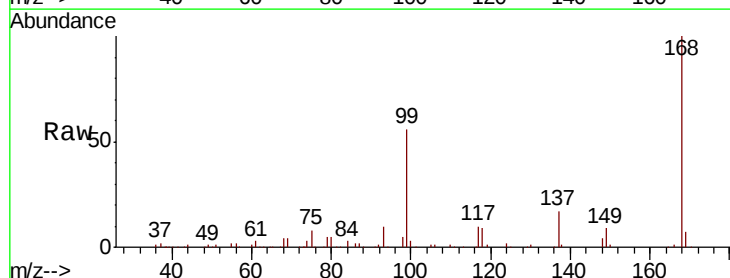
Tgt Ion: 75 Resp: 14160

Ion Ratio Lower Upper

75 100

110 8.7 16.7 50.1#

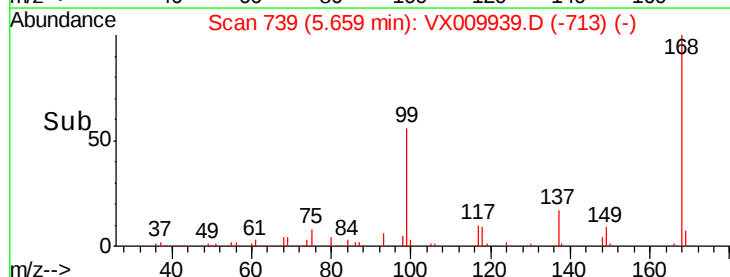
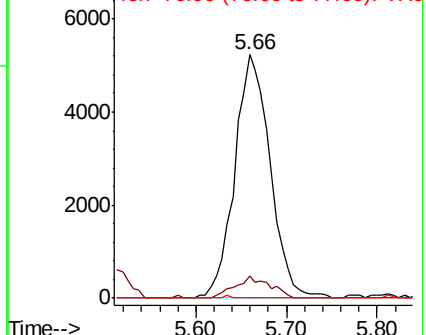
77 0.0 25.0 37.4#

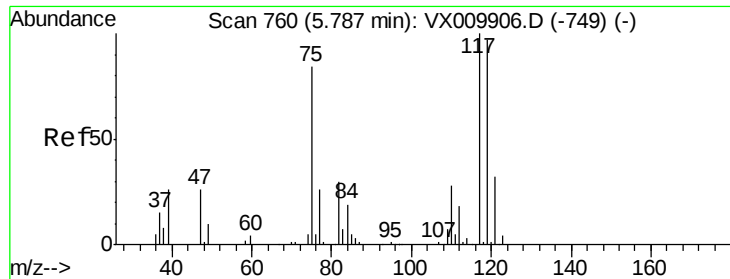


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.892 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

S32-0662

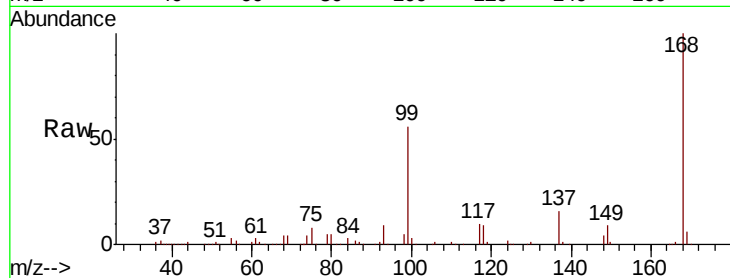
Tot Ion:117 Resp: 17243

Ion Ratio Lower Upper

117 100

119 5.3 77.3 115.9#

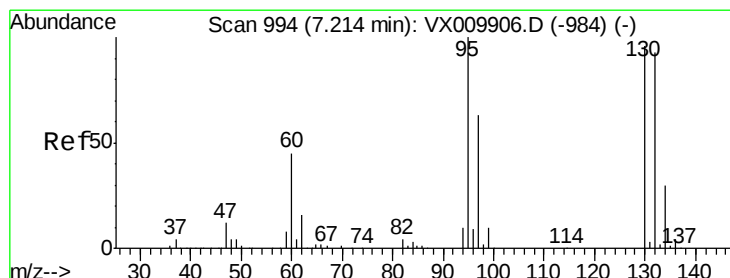
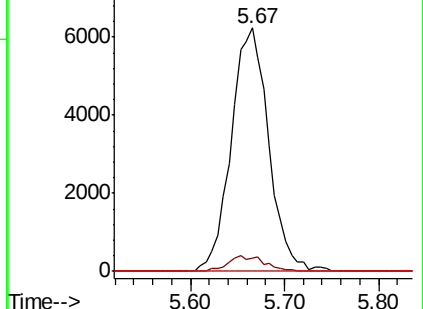
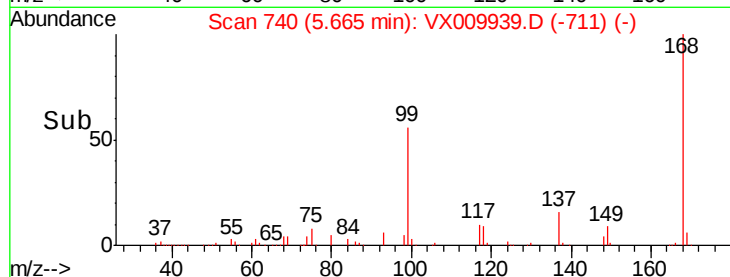
121 0.0 25.4 38.0#



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



#44

Trichloroethene

Concen: 1.928 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX009939.D

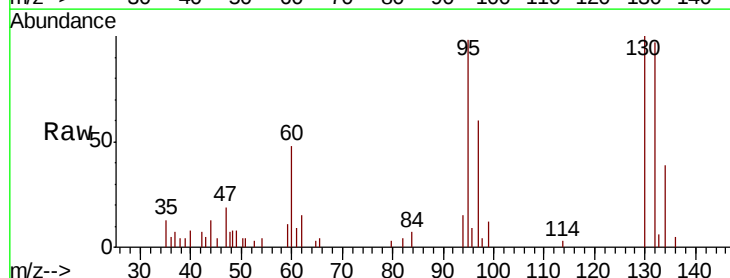
Acq: 29 May 2019 14:53

Tgt Ion:130 Resp: 4022

Ion Ratio Lower Upper

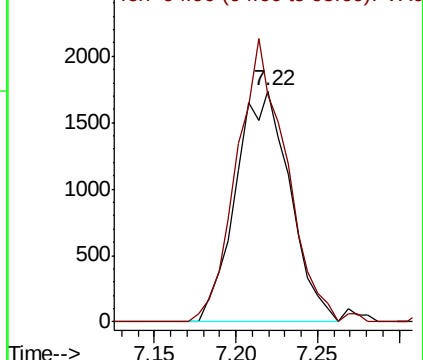
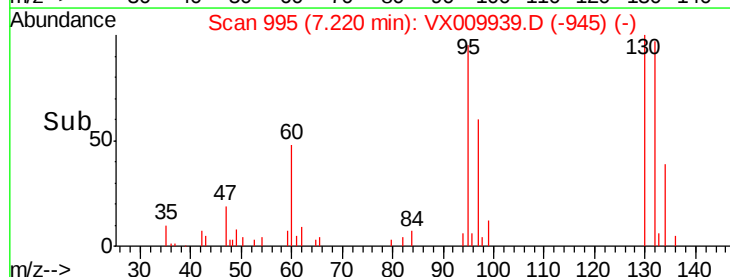
130 100

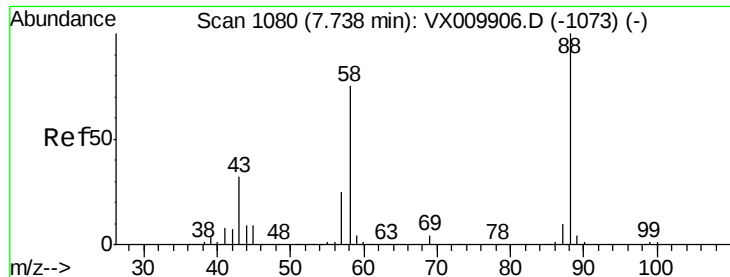
95 98.2 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

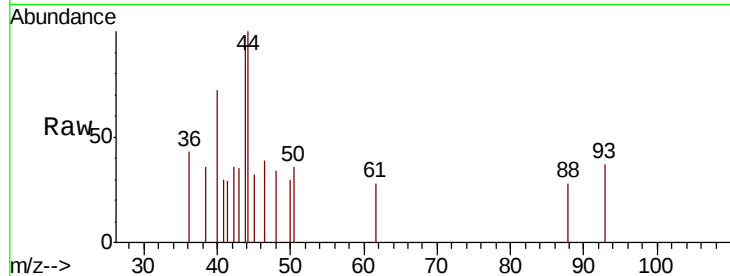




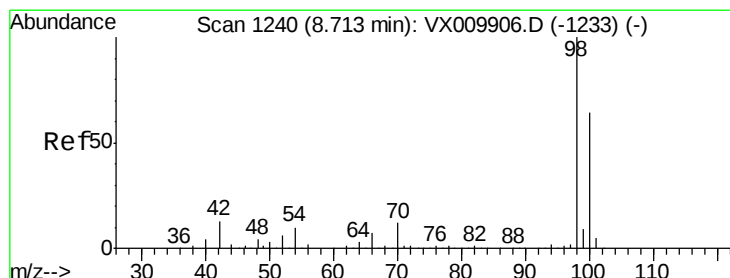
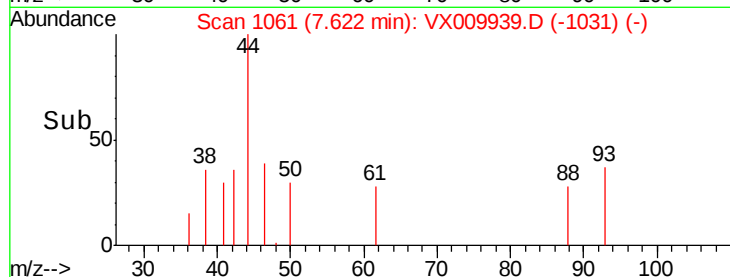
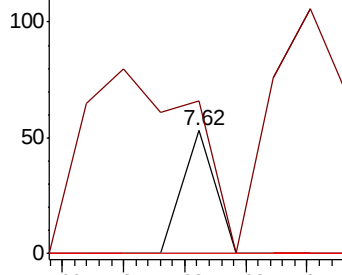
#49
1,4-Dioxane
Concen: 0.317 ug/l
RT: 7.62 min Scan# 1061
Delta R.T. -0.12 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

Instrument :
MSVOA_X
ClientSampleId :
S32-0662

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 521.1 30.2 45.4#
58 0.0 64.0 96.0#

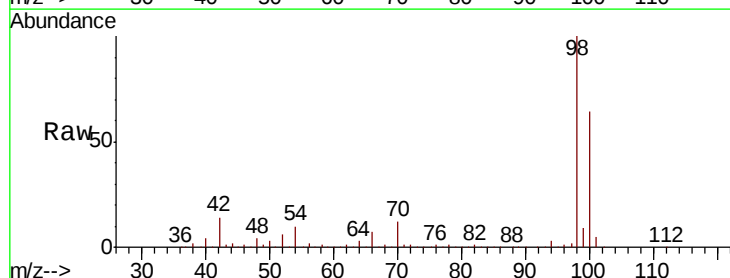


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

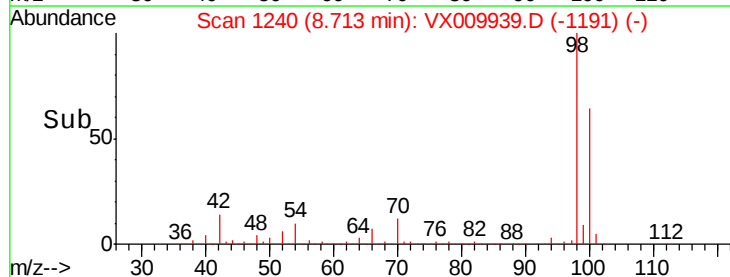
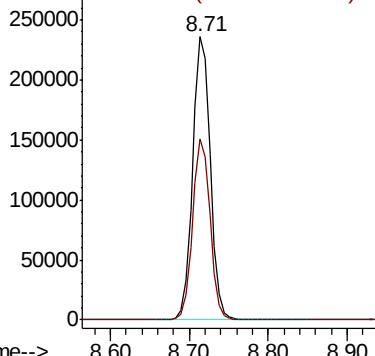


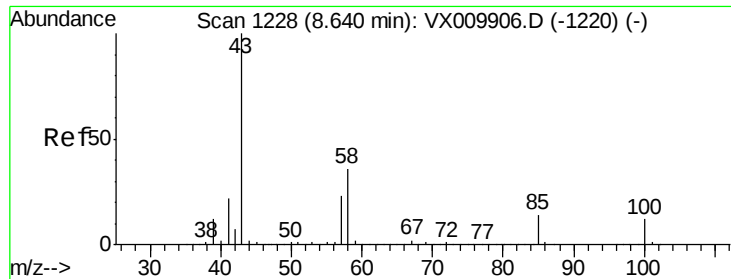
#50
Toluene-d8
Concen: 50.209 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

Tgt Ion: 98 Resp: 365776
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.268 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampled :

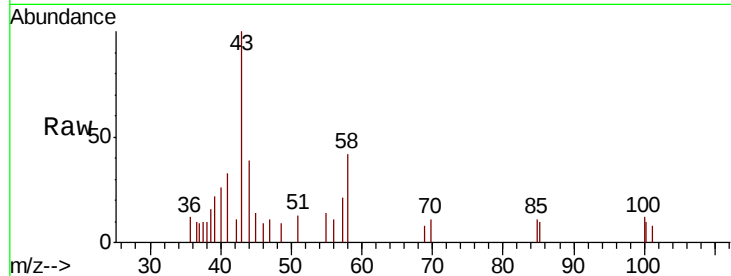
S32-0662

Tot Ion: 43 Resp: 1134

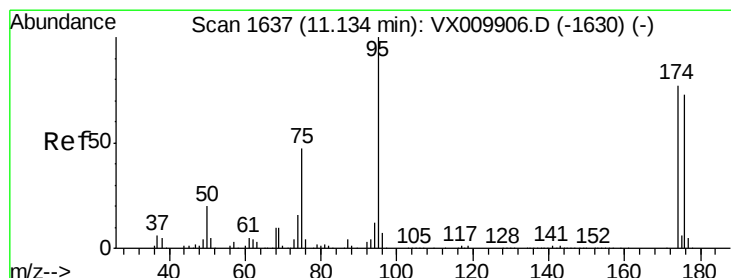
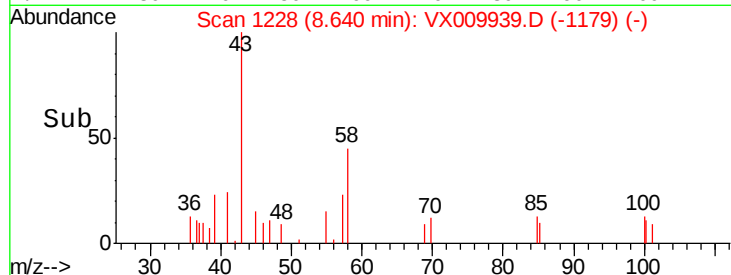
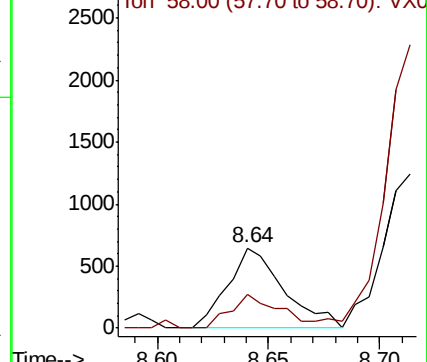
Ion Ratio Lower Upper

43 100

58 37.0 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.464 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

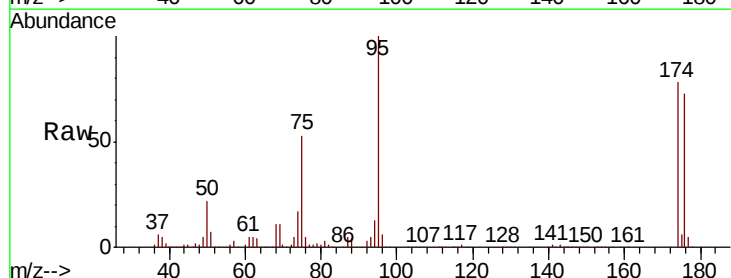
Tgt Ion: 95 Resp: 121582

Ion Ratio Lower Upper

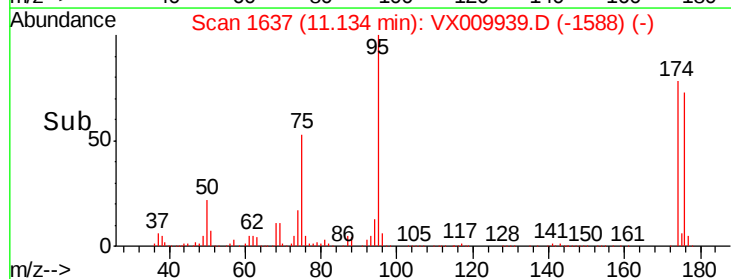
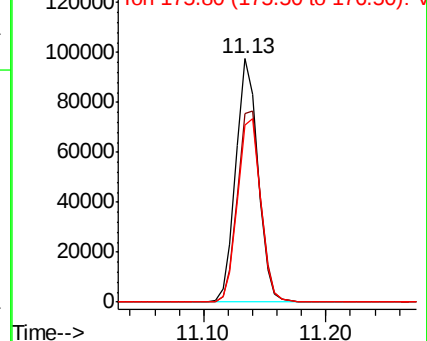
95 100

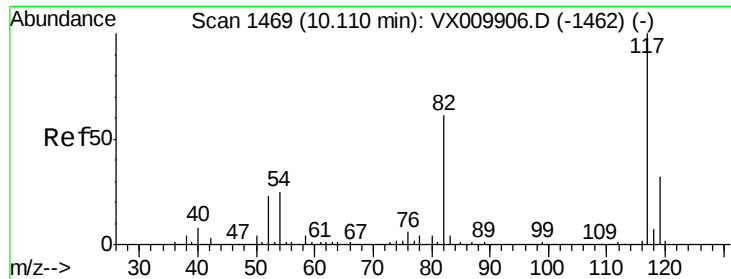
174 82.3 0.0 160.4

176 78.6 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

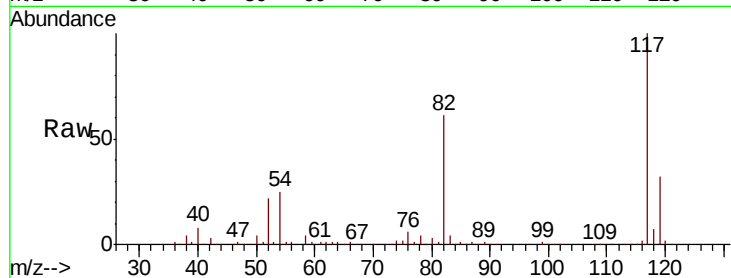




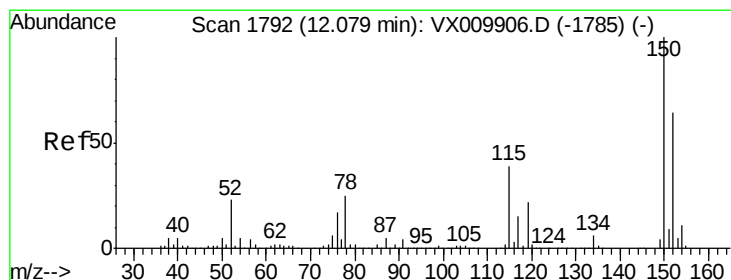
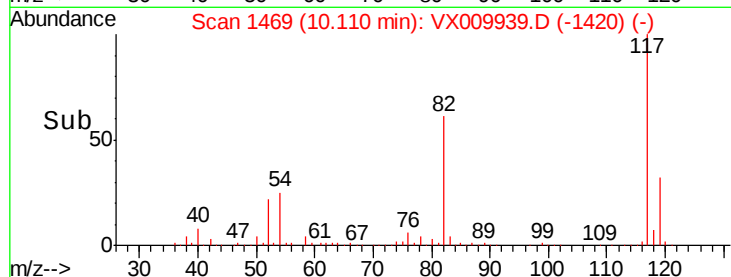
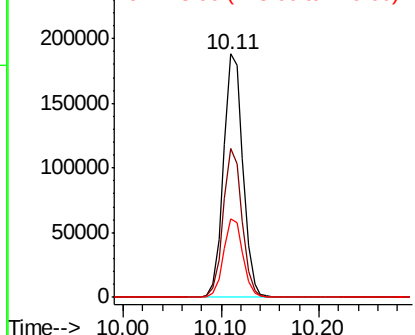
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

Instrument :
MSVOA_X
ClientSampleId :
S32-0662

Tot Ion:117 Resp: 258719
Ion Ratio Lower Upper
117 100
82 61.3 49.2 73.8
119 32.1 25.2 37.8

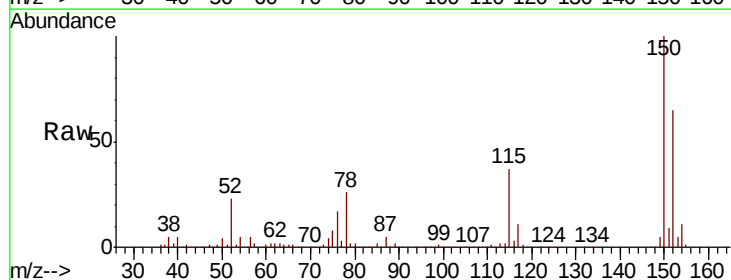


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

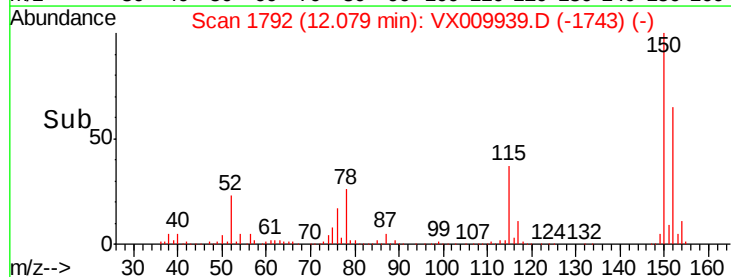
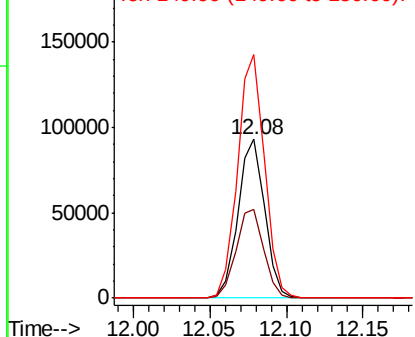


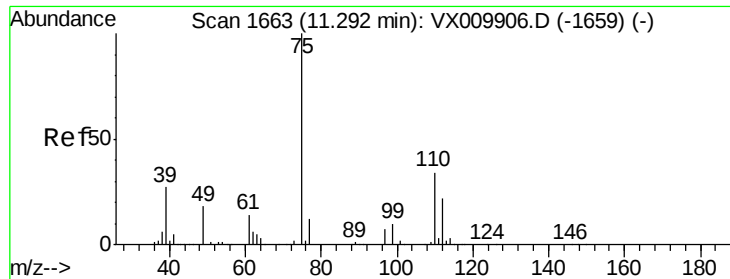
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009939.D
Acq: 29 May 2019 14:53

Tgt Ion:152 Resp: 112111
Ion Ratio Lower Upper
152 100
115 58.1 41.4 124.2
150 154.6 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





#76

1,2,3-Trichloropropane

Concen: 23.898 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

Instrument :

MSVOA_X

ClientSampleId :

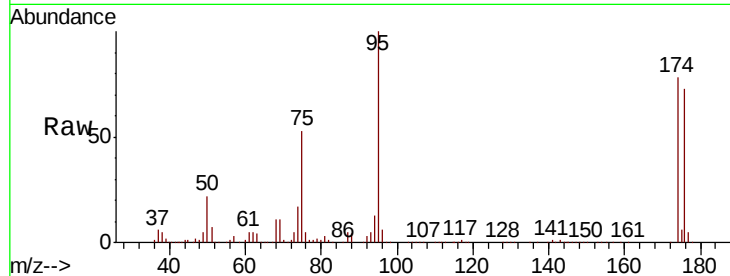
S32-0662

Tot Ion: 75 Resp: 64068

Ion Ratio Lower Upper

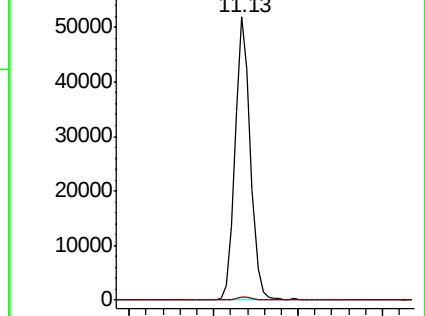
75 100

77 1.4 22.1 66.1#

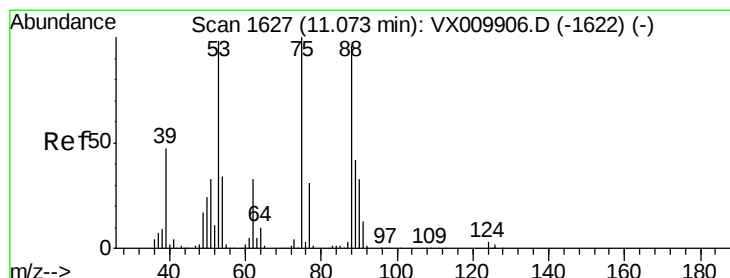
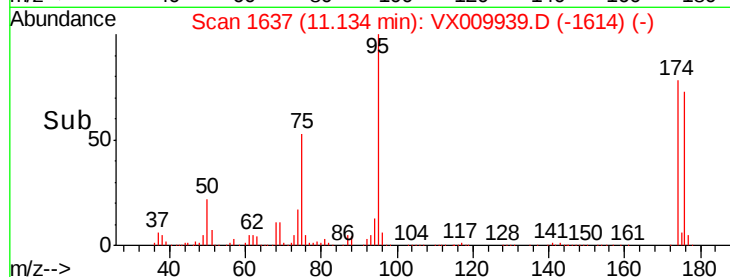


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time--> 11.00 11.10 11.20 11.30



#81

trans-1,4-Dichloro-2-butene

Concen: 59.127 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009939.D

Acq: 29 May 2019 14:53

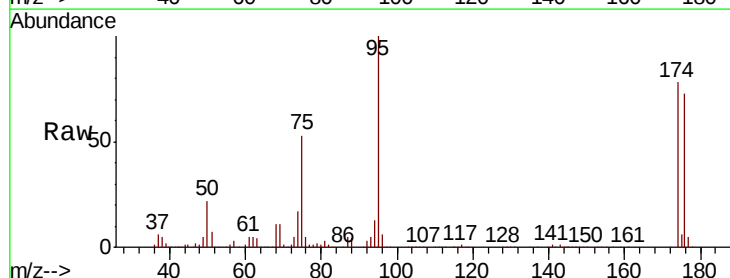
Tgt Ion: 75 Resp: 64068

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

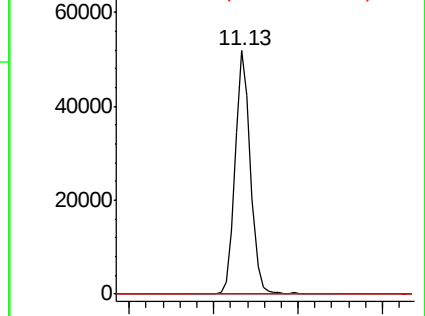
89 0.0 34.2 51.4#



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



Time--> 11.00 11.10 11.20 11.30

