

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX010006.D
 Acq On : 01 Jun 2019 00:34
 Operator : JC/SP
 Sample : K3128-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0661

Quant Time: Jun 01 04:48:03 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	178568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	283425	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	116493	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	118997	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
35) Dibromofluoromethane	5.50	113	88357	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
50) Toluene-d8	8.71	98	360648	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.13	95	124613	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	

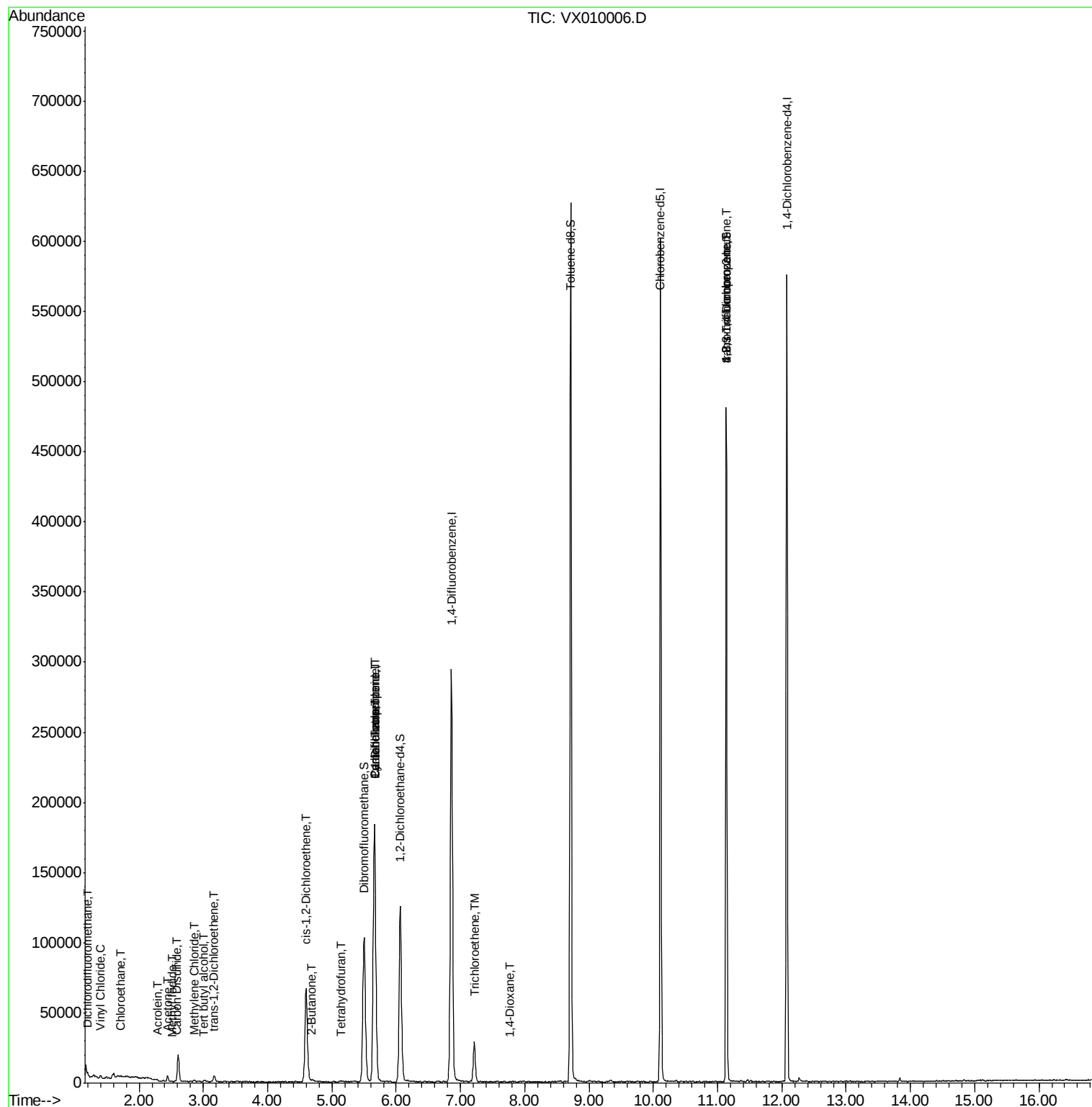
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1583	0.725	ug/l	94
4) Vinyl Chloride	1.41	62	1158	0.438	ug/l	94
6) Chloroethane	1.71	64	528	0.324	ug/l #	67
10) Methyl Iodide	2.51	142	44	4.675	ug/l #	11
11) Tert butyl alcohol	3.01	59	537	0.865	ug/l #	87
13) Acrolein	2.29	56	107	21.320	ug/l #	1
16) Acetone	2.44	43	4369	2.998	ug/l	96
17) Carbon Disulfide	2.57	76	838	0.536	ug/l #	78
20) Methylene Chloride	2.85	84	469	0.210	ug/l #	74
21) trans-1,2-Dichloroethene	3.17	96	1400	0.696	ug/l	93
25) 2-Butanone	4.68	43	481	0.212	ug/l #	50
27) cis-1,2-Dichloroethene	4.60	96	41206	17.741	ug/l	86
29) Tetrahydrofuran	5.15	42	323	0.222	ug/l #	50
31) Cyclohexane	5.66	56	4144	1.080	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14236	4.950	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16670	6.708	ug/l #	15
44) Trichloroethene	7.21	130	11025	5.321	ug/l	94
49) 1,4-Dioxane	7.77	88	20	0.336	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	64385	23.113	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64385	57.184	ug/l #	10

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

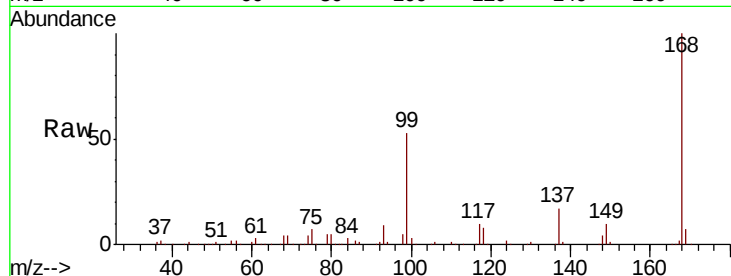
S32-0661

Tot Ion:168 Resp: 178568

Ion Ratio Lower Upper

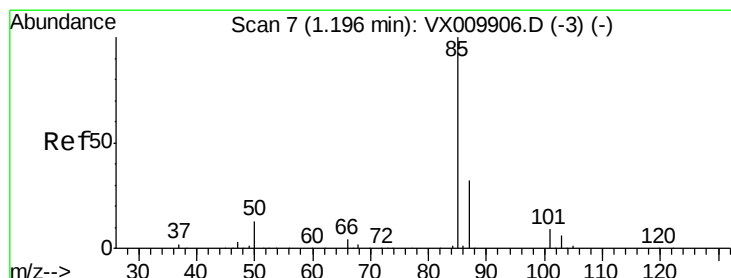
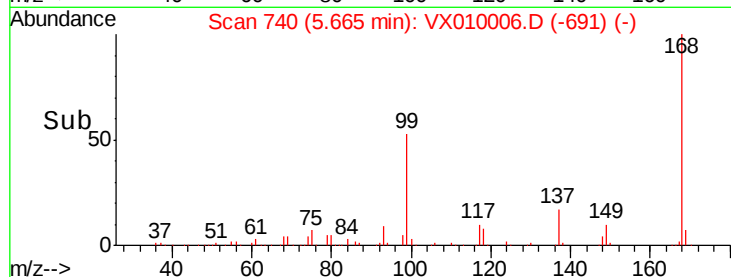
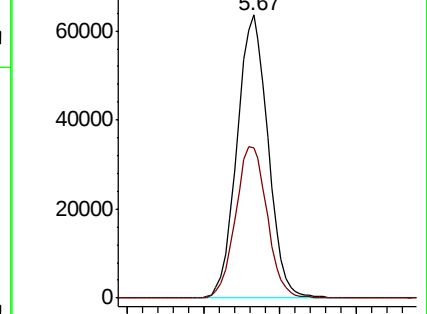
168 100

99 53.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.725 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX010006.D

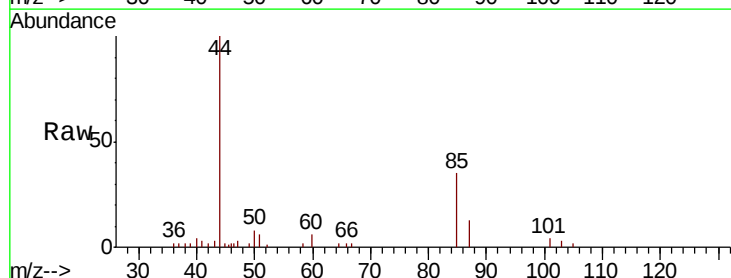
Acq: 01 Jun 2019 00:34

Tgt Ion: 85 Resp: 1583

Ion Ratio Lower Upper

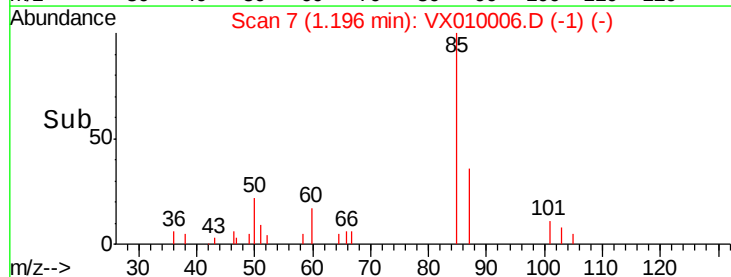
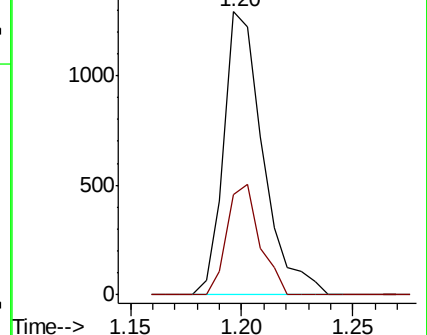
85 100

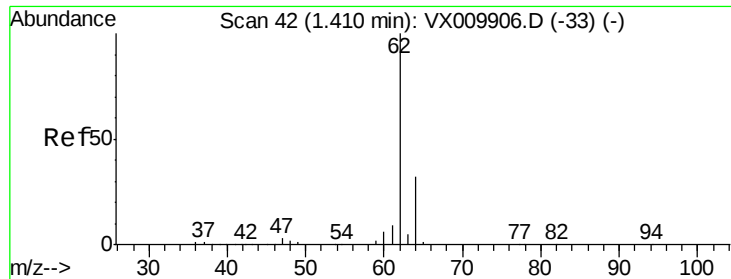
87 35.6 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 0.438 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampled :

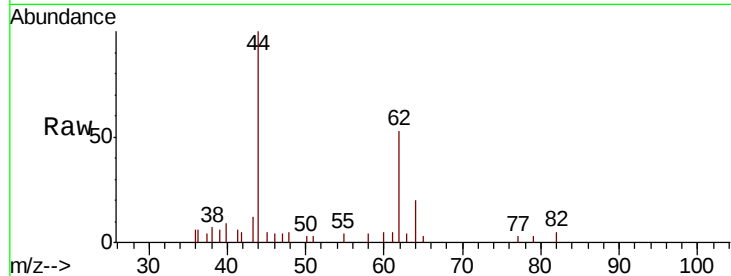
S32-0661

Tot Ion: 62 Resp: 1158

Ion Ratio Lower Upper

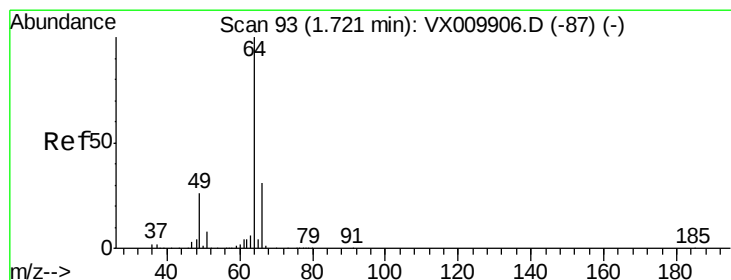
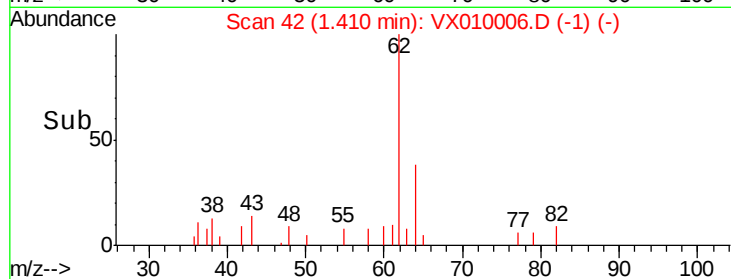
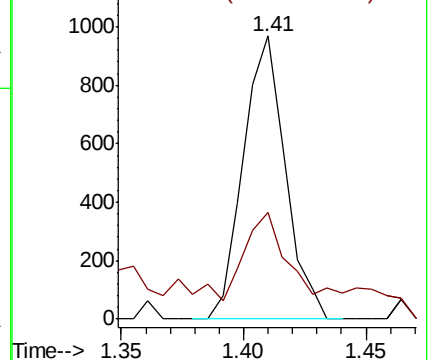
62 100

64 28.9 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 0.324 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010006.D

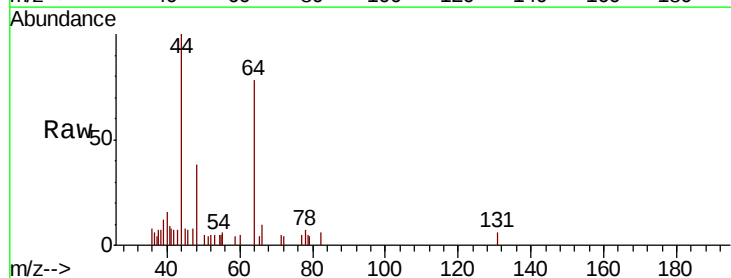
Acq: 01 Jun 2019 00:34

Tgt Ion: 64 Resp: 528

Ion Ratio Lower Upper

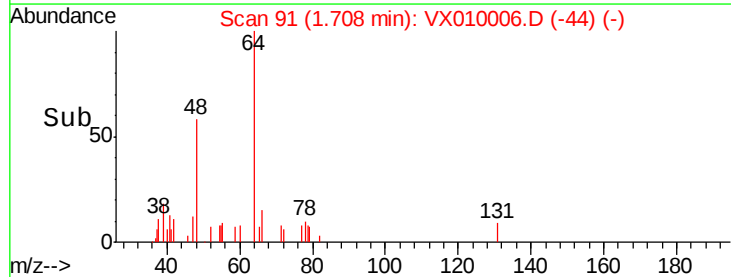
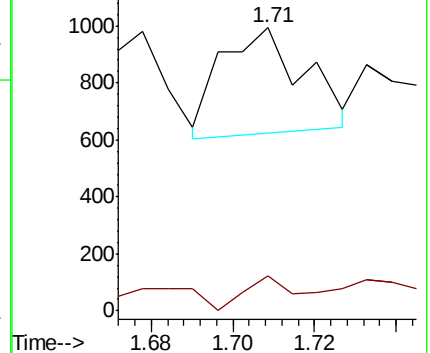
64 100

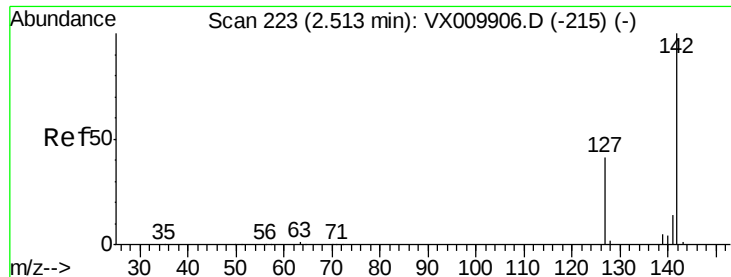
66 13.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

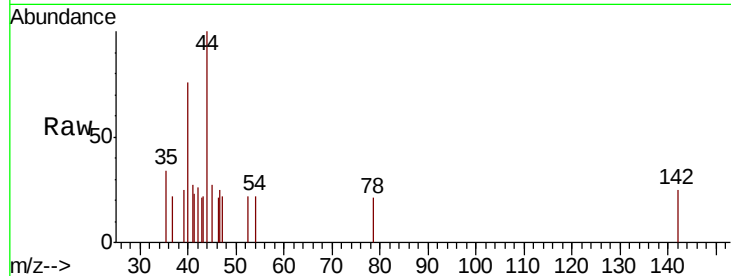




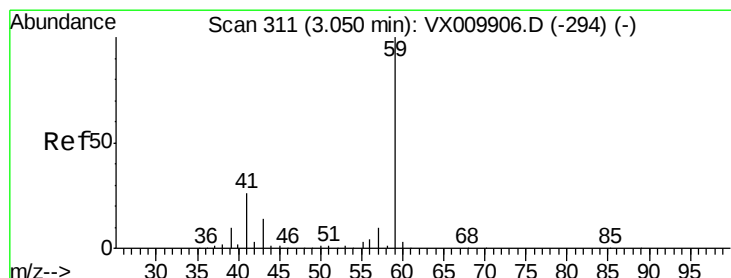
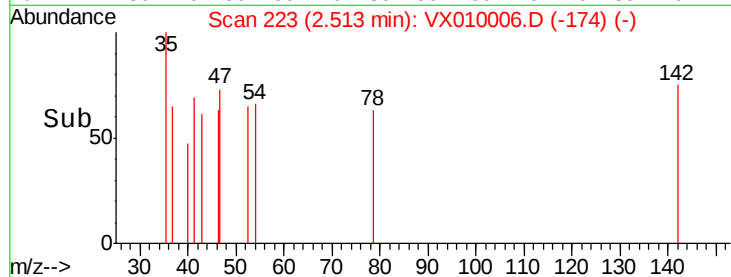
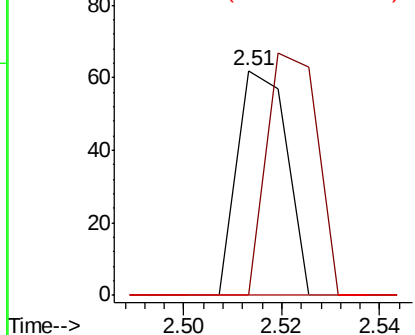
#10
Methvl Iodide
Concen: 4.675 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX010006.D
Acq: 01 Jun 2019 00:34

Instrument :
MSVOA_X
ClientSampleId :
S32-0661

Tot Ion:142 Resp: 44
Ion Ratio Lower Upper
142 100
127 109.1 33.0 49.4#
141 0.0 11.4 17.0#

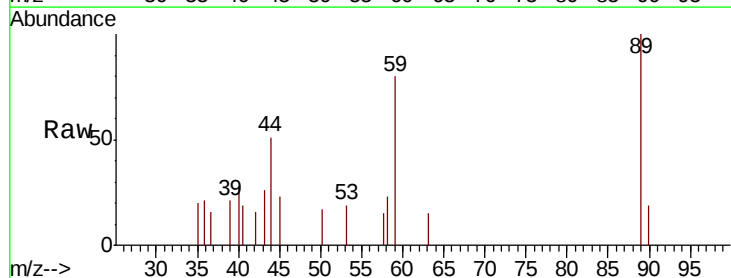


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

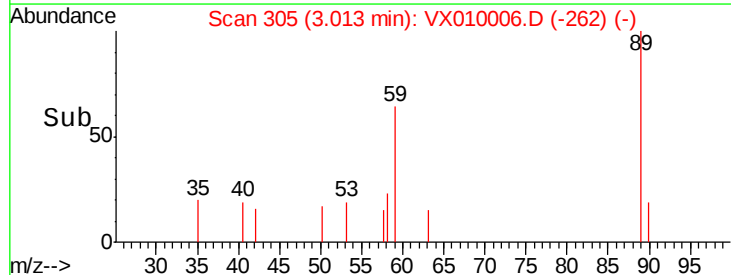
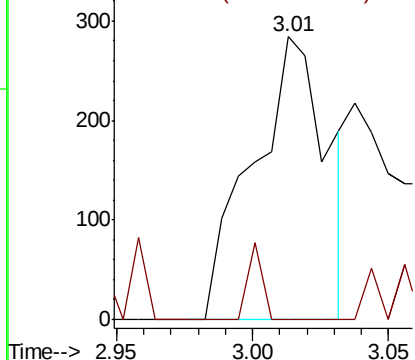


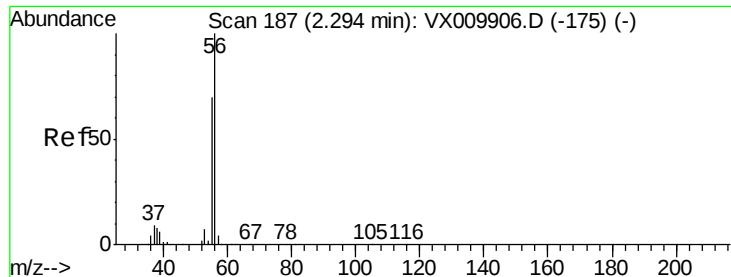
#11
Tert butyl alcohol
Concen: 0.865 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010006.D
Acq: 01 Jun 2019 00:34

Tgt Ion: 59 Resp: 537
Ion Ratio Lower Upper
59 100
57 5.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 21.320 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

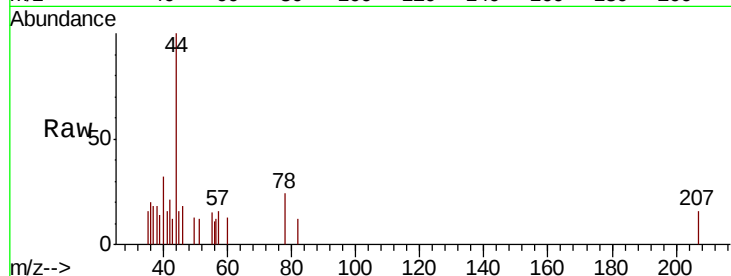
S32-0661

Tot Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 219.6 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

100

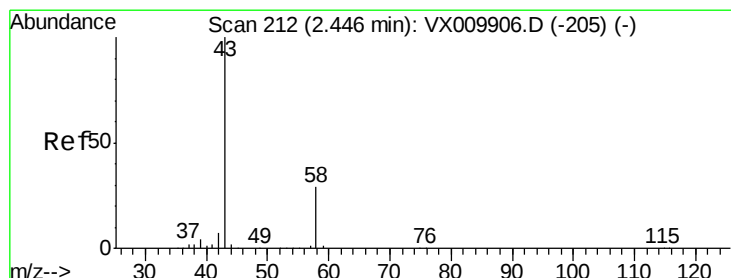
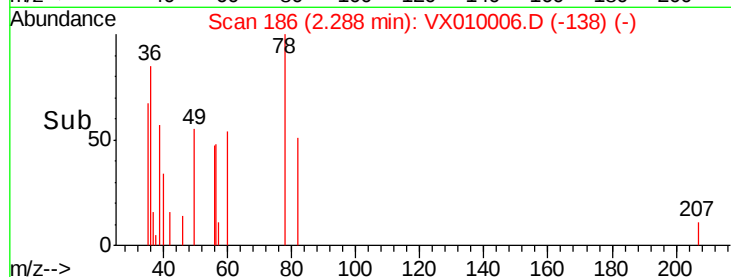
50

0

2.26 2.28 2.30 2.32

2.29

Time-->



#16

Acetone

Concen: 2.998 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010006.D

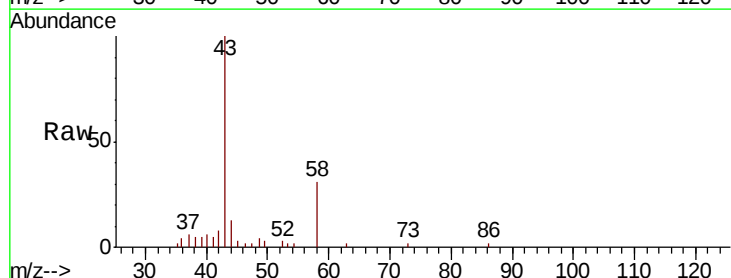
Acq: 01 Jun 2019 00:34

Tgt Ion: 43 Resp: 4369

Ion Ratio Lower Upper

43 100

58 31.0 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

1000

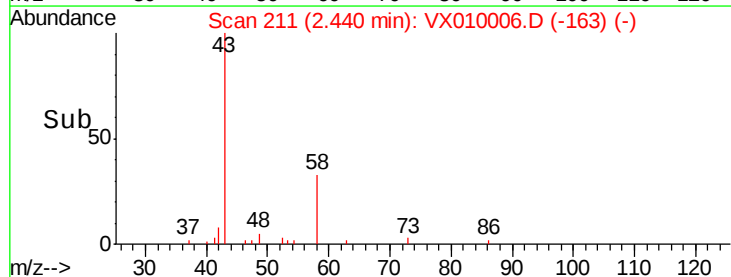
500

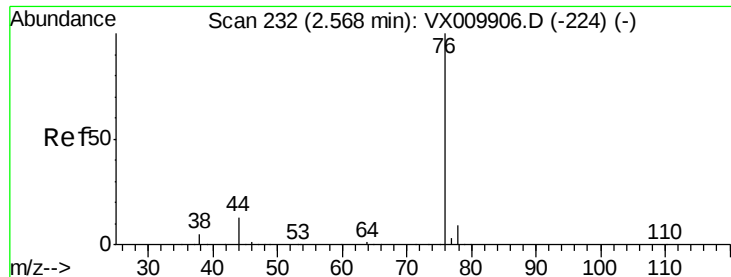
0

2.35 2.40 2.45 2.50

2.44

Time-->





#17

Carbon Disulfide

Concen: 0.536 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

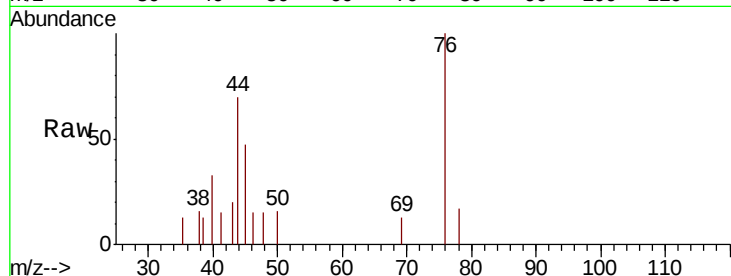
S32-0661

Tot Ion: 76 Resp: 838

Ion Ratio Lower Upper

76 100

78 16.6 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

400

300

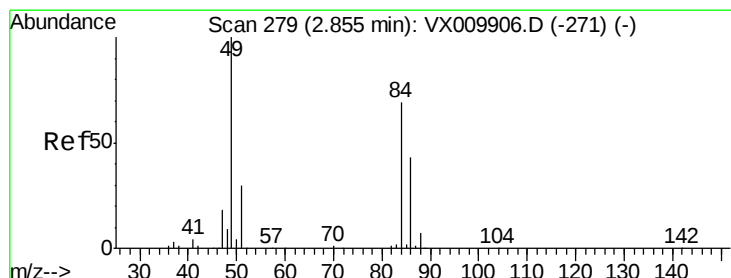
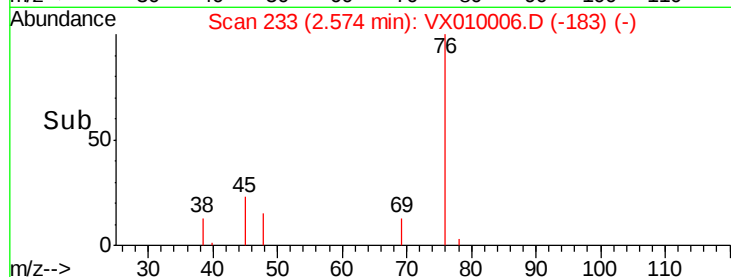
200

100

0

2.55 2.60

Time-->



#20

Methylene Chloride

Concen: 0.210 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Tgt Ion: 84 Resp: 469

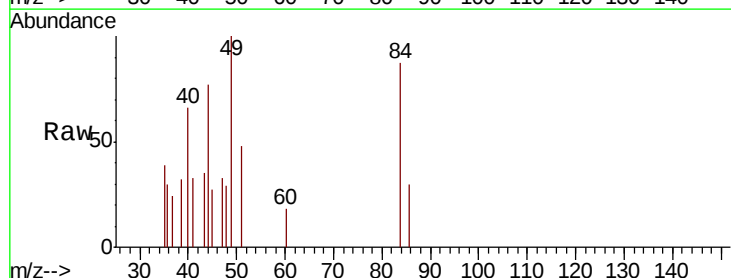
Ion Ratio Lower Upper

84 100

49 115.3 115.8 173.6#

51 55.1 34.4 51.6#

86 34.3 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

500

400

300

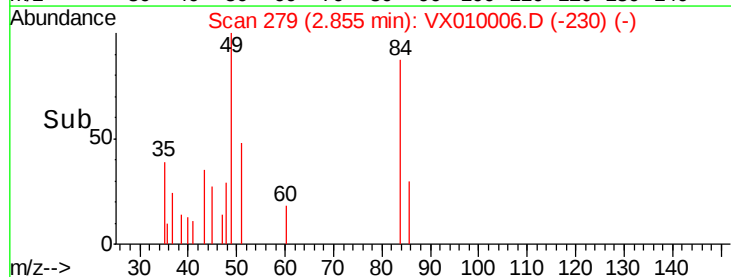
200

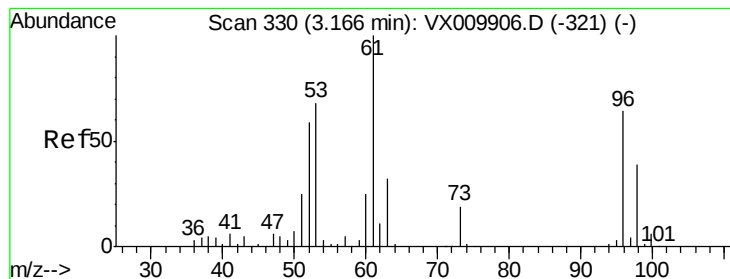
100

0

2.80 2.85 2.90

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.696 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

S32-0661

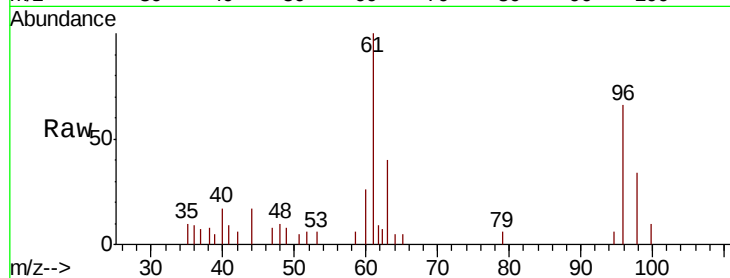
Tot Ion: 96 Resp: 1400

Ion Ratio Lower Upper

96 100

61 151.7 125.7 188.5

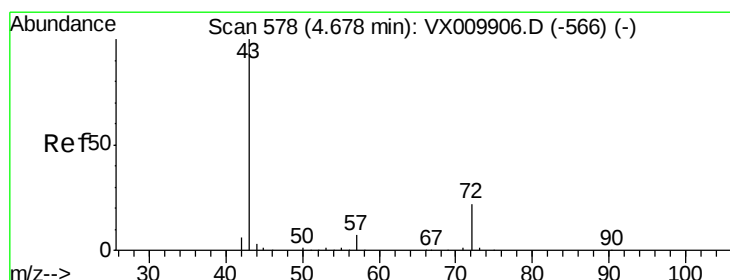
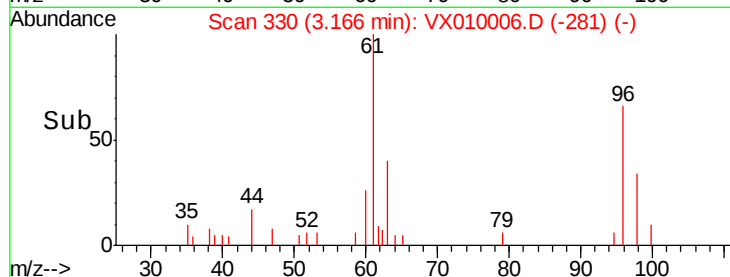
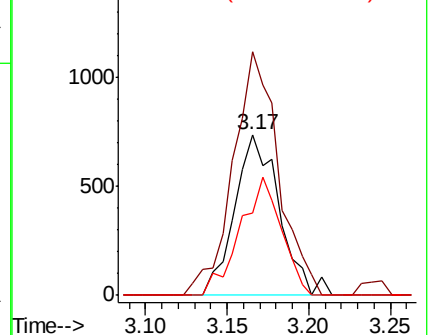
98 51.3 49.0 73.6



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



#25

2-Butanone

Concen: 0.212 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010006.D

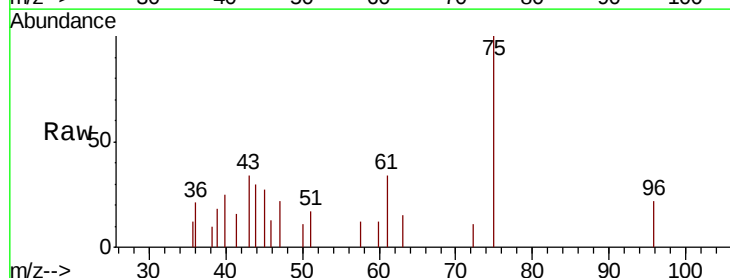
Acq: 01 Jun 2019 00:34

Tgt Ion: 43 Resp: 481

Ion Ratio Lower Upper

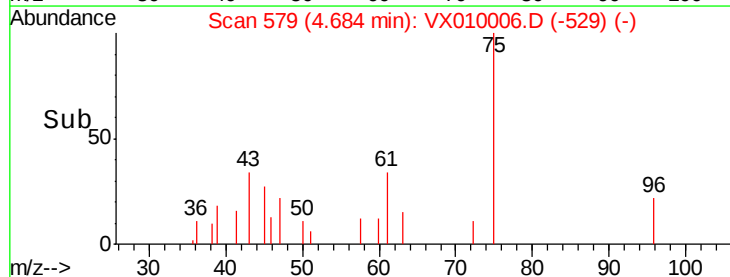
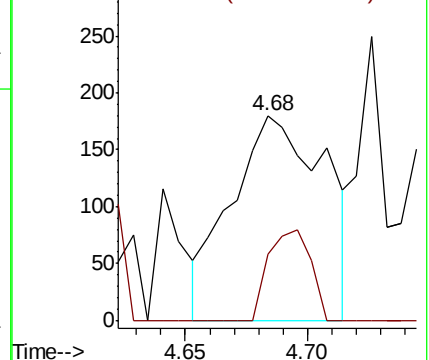
43 100

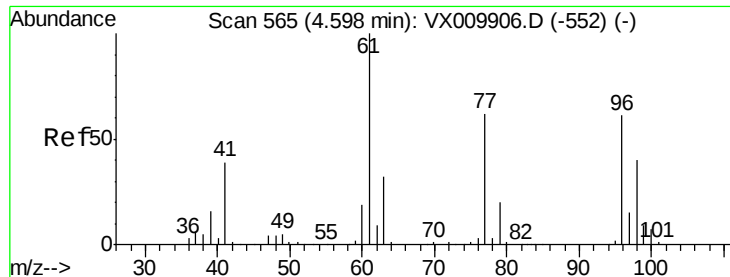
72 45.7 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



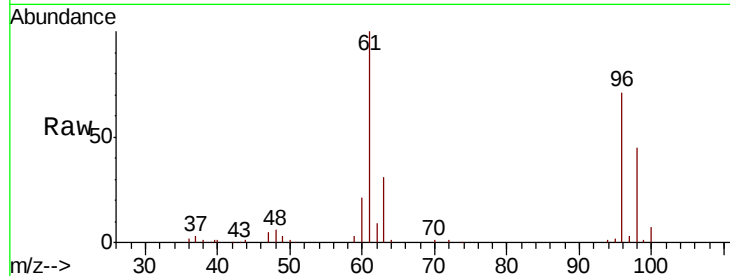


#27

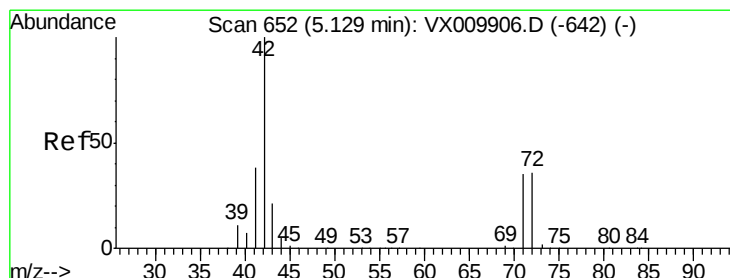
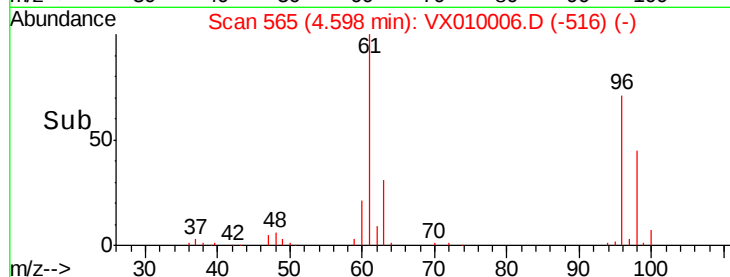
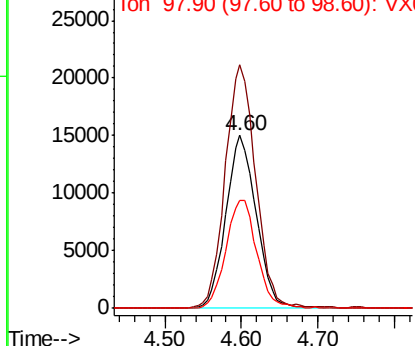
cis-1,2-Dichloroethene
Concen: 17.741 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX010006.D
Acq: 01 Jun 2019 00:34

Instrument :
MSVOA_X
ClientSampled :
S32-0661

Tot Ion: 96 Resp: 41206
Ion Ratio Lower Upper
96 100
61 141.3 0.0 334.0
98 63.5 0.0 131.6



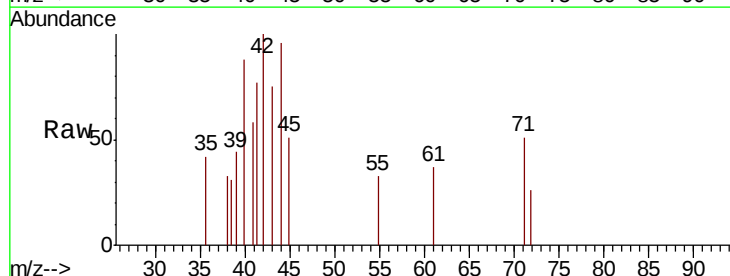
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



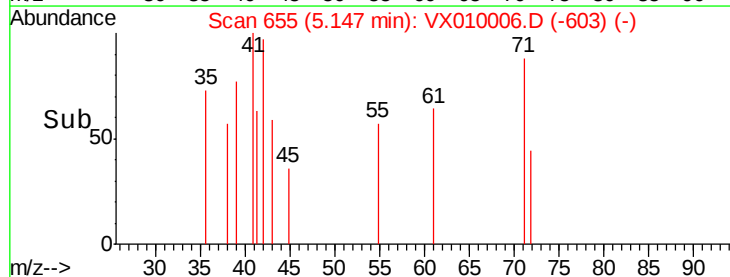
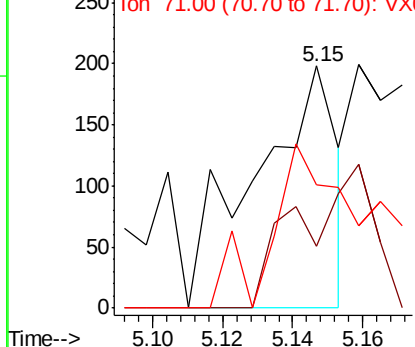
#29

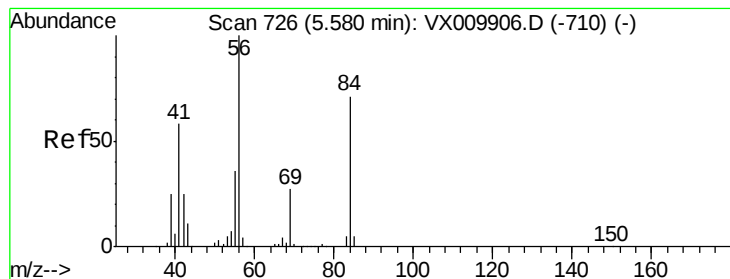
Tetrahydrofuran
Concen: 0.222 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX010006.D
Acq: 01 Jun 2019 00:34

Tgt Ion: 42 Resp: 323
Ion Ratio Lower Upper
42 100
72 53.3 29.2 43.8#
71 76.8 27.6 41.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.080 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

S32-0661

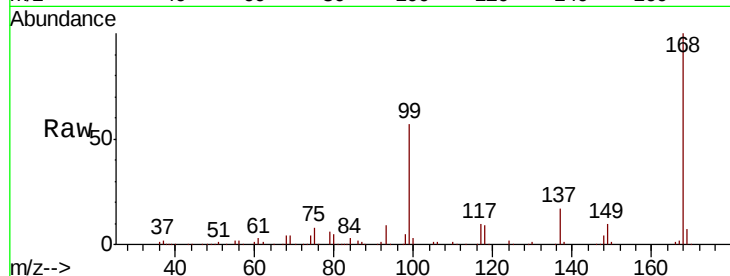
Tot Ion: 56 Resp: 4144

Ion Ratio Lower Upper

56 100

69 149.7 21.6 32.4#

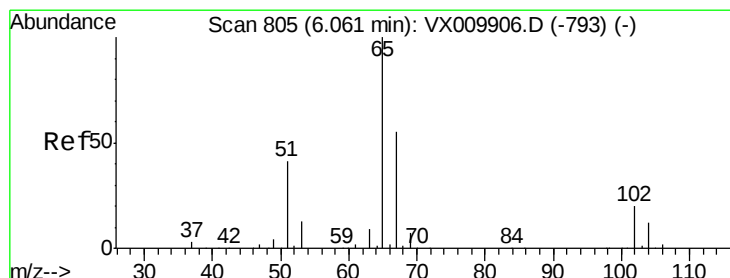
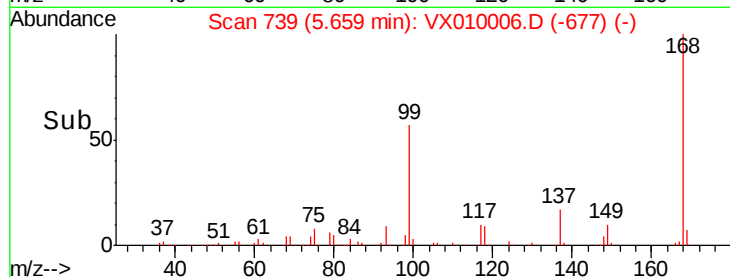
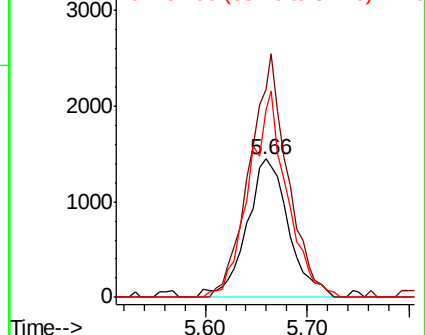
84 134.8 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.176 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010006.D

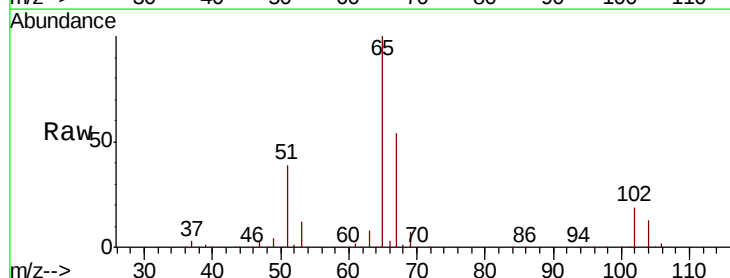
Acq: 01 Jun 2019 00:34

Tgt Ion: 65 Resp: 118997

Ion Ratio Lower Upper

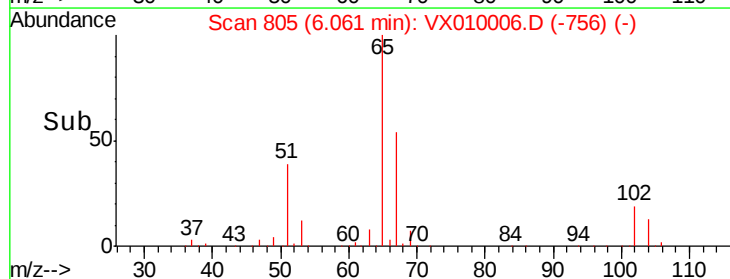
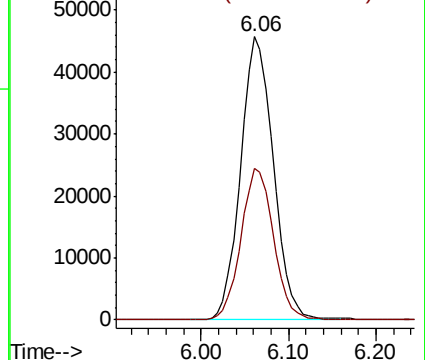
65 100

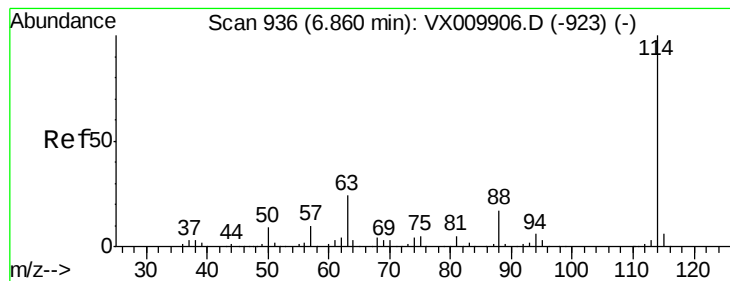
67 53.4 0.0 108.4



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# 936

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

S32-0661

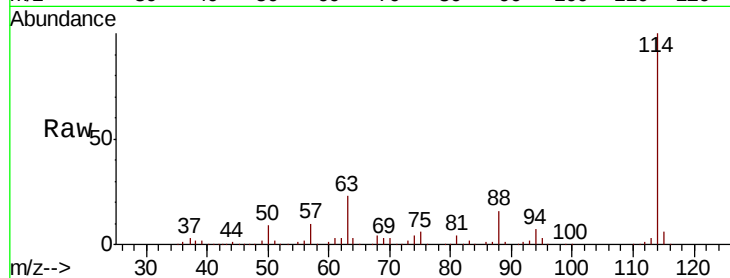
Tot Ion:114 Resp: 283425

Ion Ratio Lower Upper

114 100

63 22.9 0.0 47.4

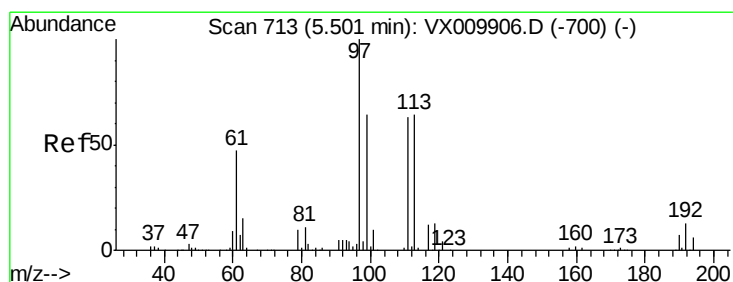
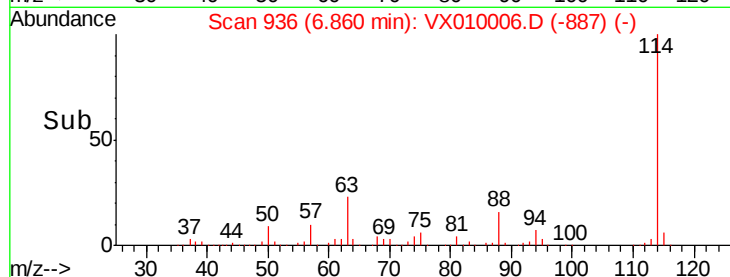
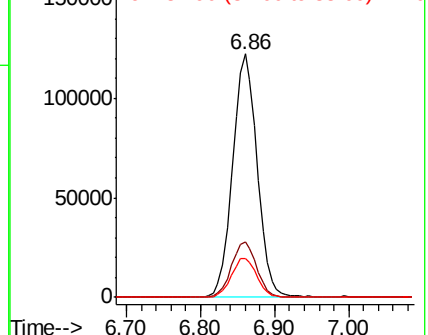
88 15.9 0.0 33.0



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: 49.586 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

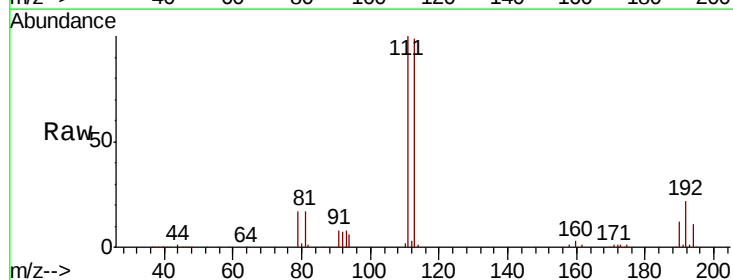
Tgt Ion:113 Resp: 88357

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

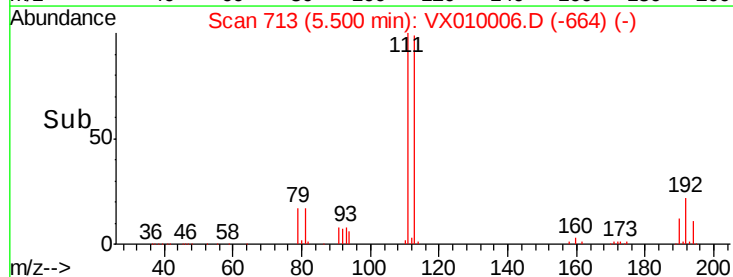
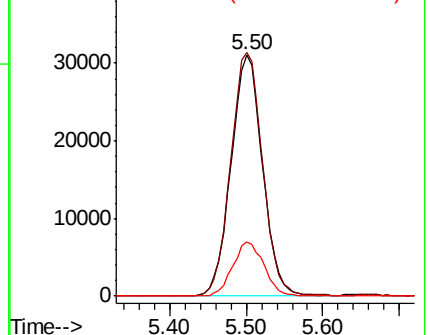
192 22.3 17.1 25.7

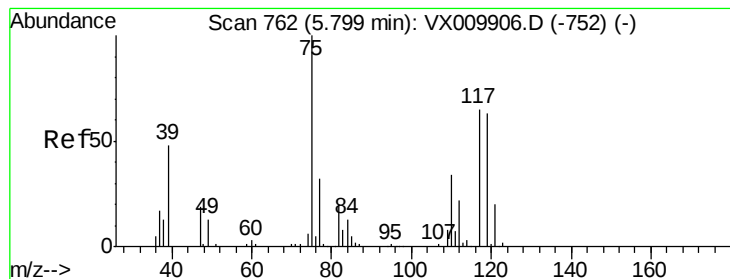


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.950 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

S32-0661

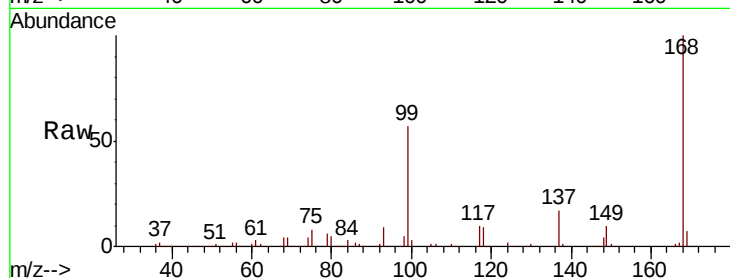
Tot Ion: 75 Resp: 14236

Ion Ratio Lower Upper

75 100

110 9.3 16.7 50.1#

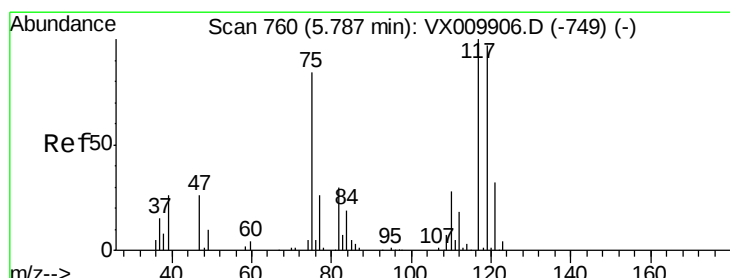
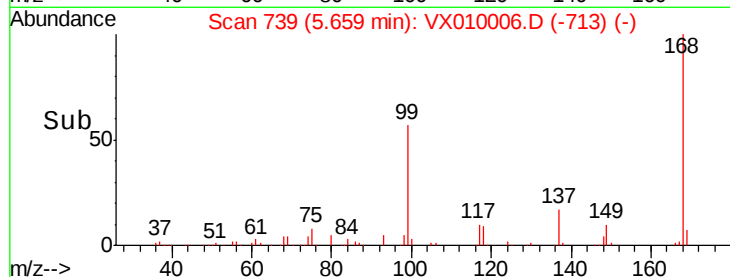
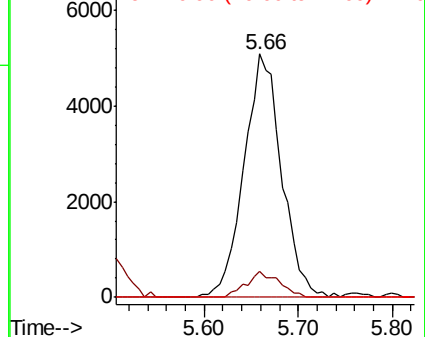
77 0.0 25.0 37.4#



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: 6.708 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

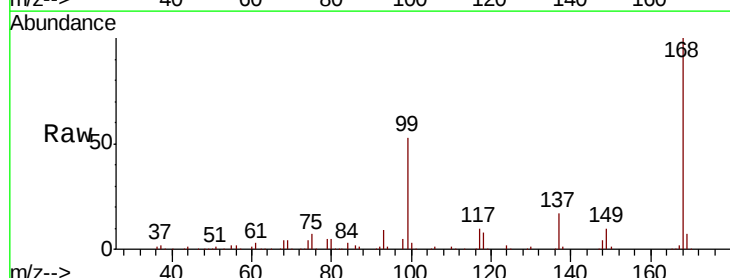
Tgt Ion:117 Resp: 16670

Ion Ratio Lower Upper

117 100

119 4.2 77.3 115.9#

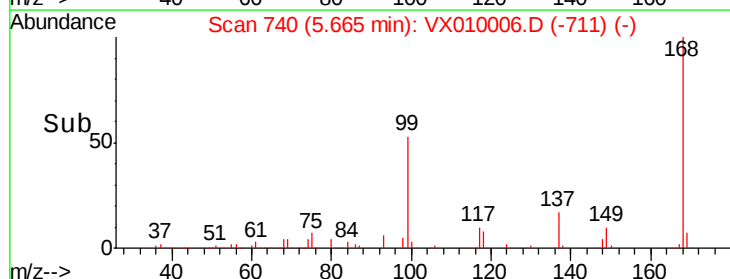
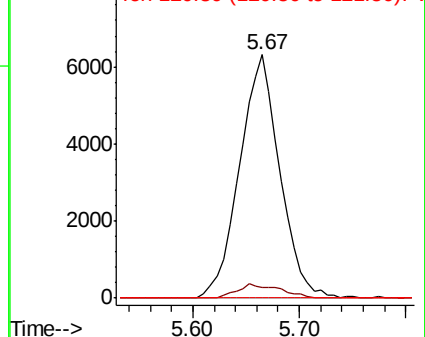
121 0.0 25.4 38.0#

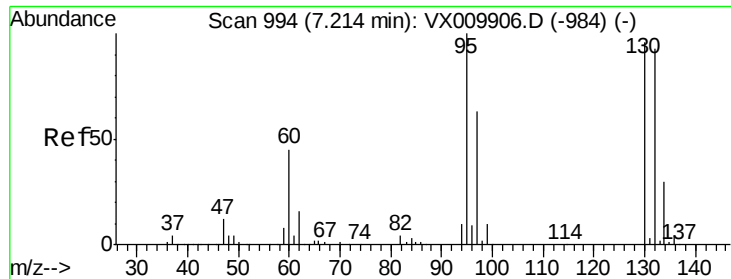


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 5.321 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

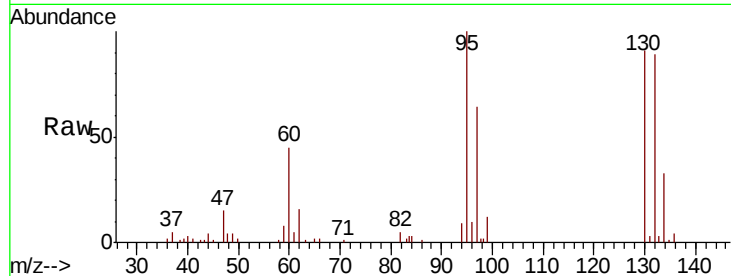
S32-0661

Tot Ion:130 Resp: 11025

Ion Ratio Lower Upper

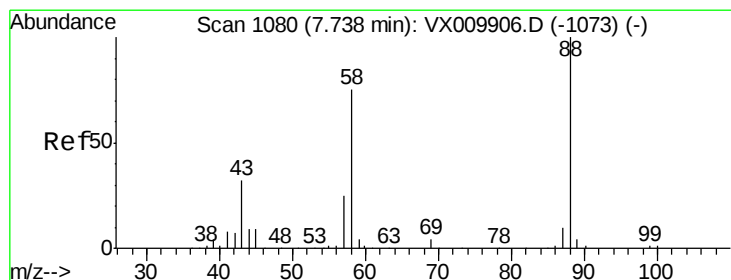
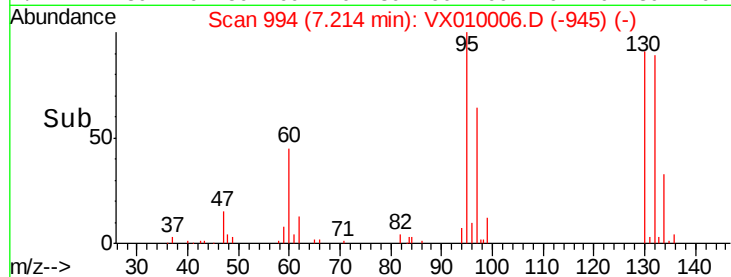
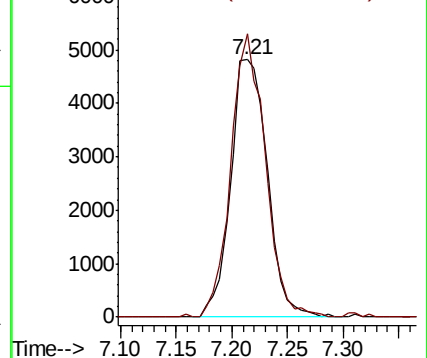
130 100

95 109.9 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: 0.336 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.04 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

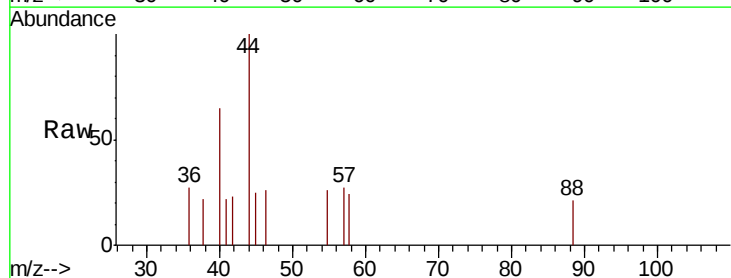
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 130.0 30.2 45.4#

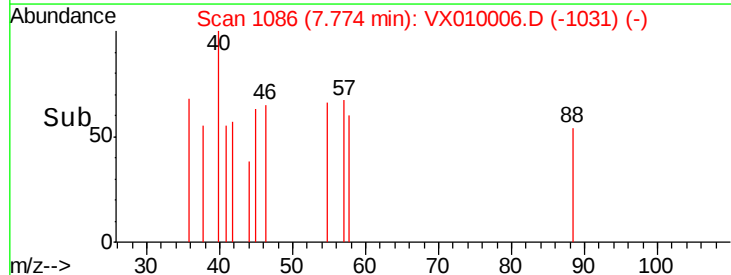
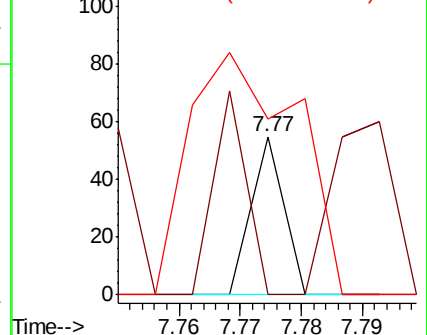
58 510.0 64.0 96.0#

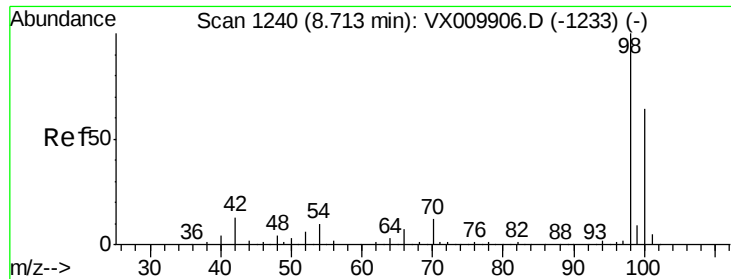


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.841 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampleId :

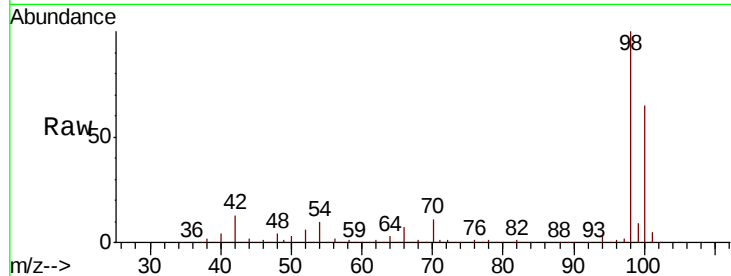
S32-0661

Tot Ion: 98 Resp: 360648

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

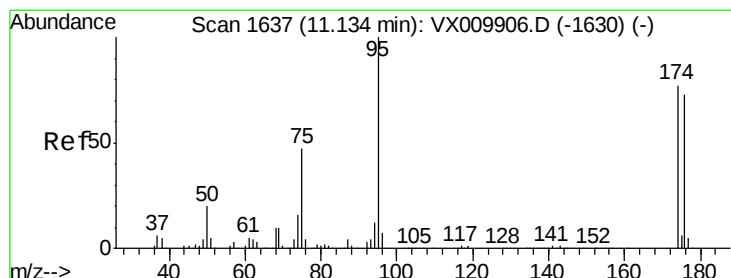
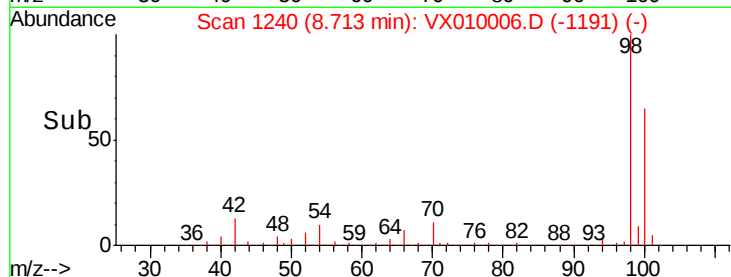
100000

50000

0

8.65 8.70 8.75 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 47.946 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

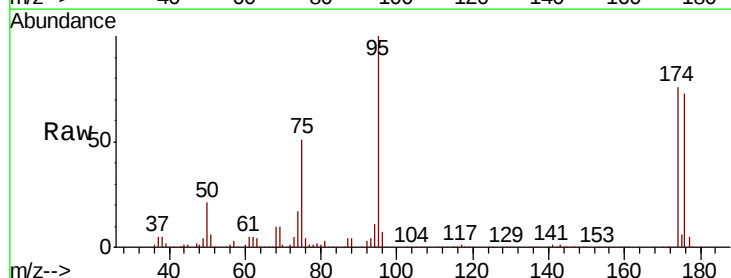
Tgt Ion: 95 Resp: 124613

Ion Ratio Lower Upper

95 100

174 82.7 0.0 160.4

176 80.2 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

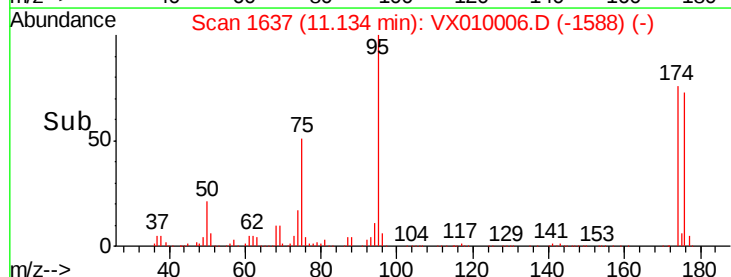
100000

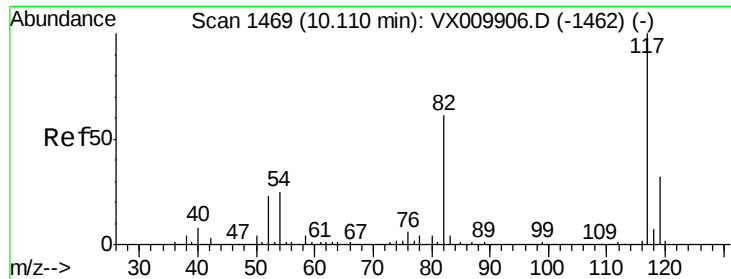
50000

0

11.10 11.13 11.16 11.19

Time-->

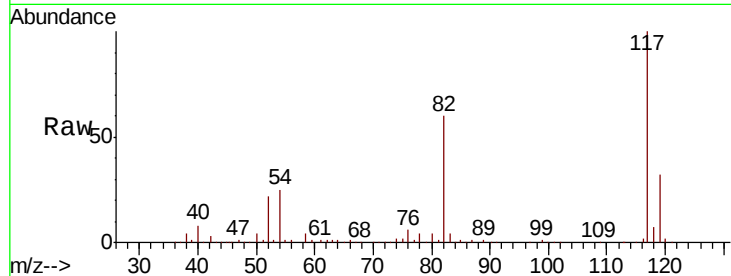




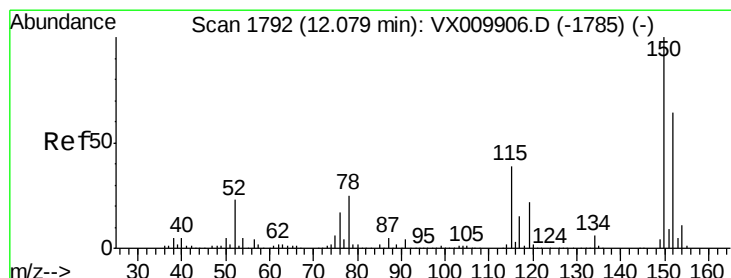
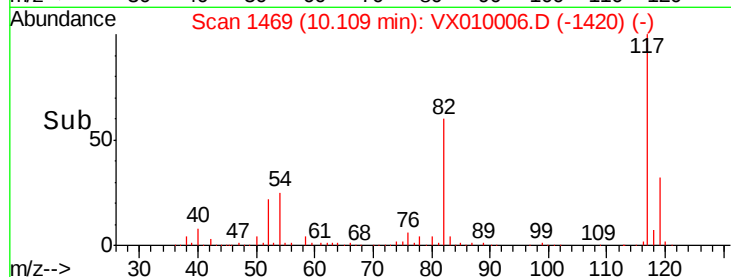
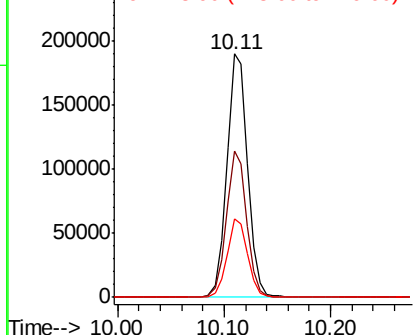
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010006.D
Acq: 01 Jun 2019 00:34

Instrument :
MSVOA_X
ClientSampled :
S32-0661

Tot Ion:117 Resp: 258065
Ion Ratio Lower Upper
117 100
82 60.1 49.2 73.8
119 32.2 25.2 37.8

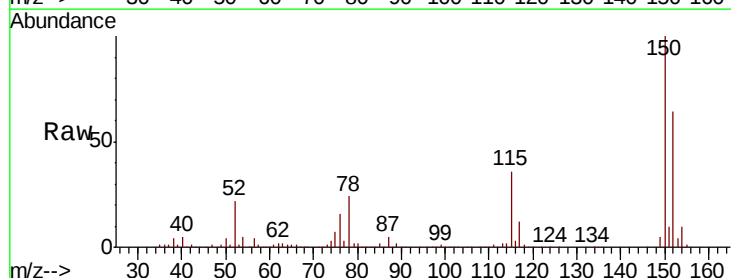


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

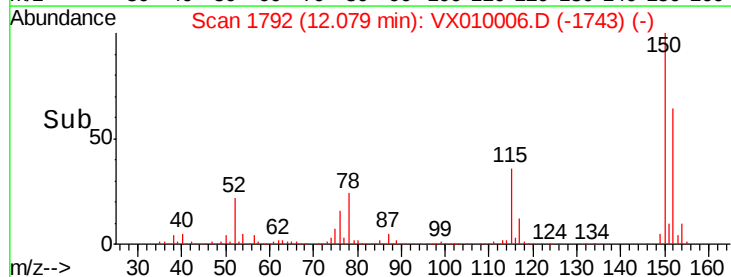
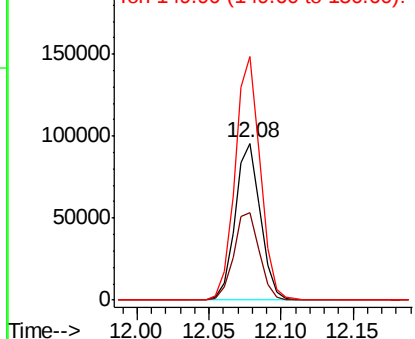


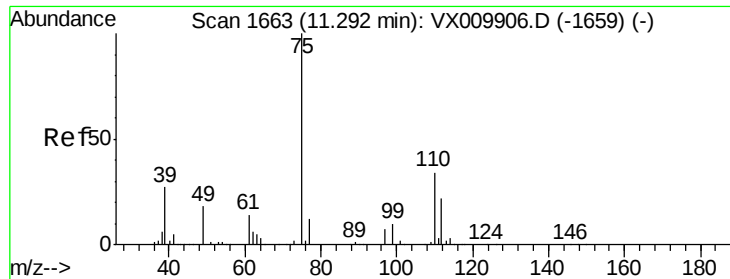
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010006.D
Acq: 01 Jun 2019 00:34

Tgt Ion:152 Resp: 116493
Ion Ratio Lower Upper
152 100
115 57.7 41.4 124.2
150 155.6 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: 23.113 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Instrument :

MSVOA_X

ClientSampled :

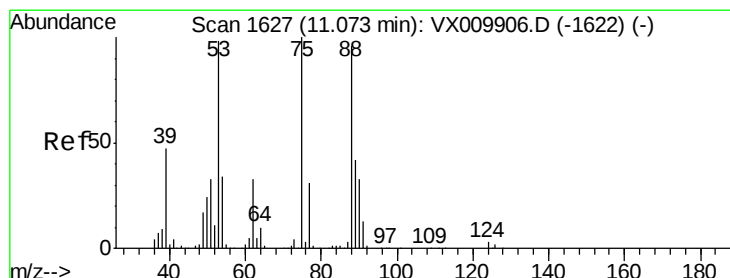
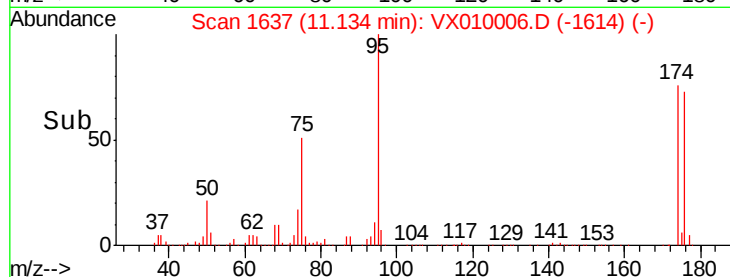
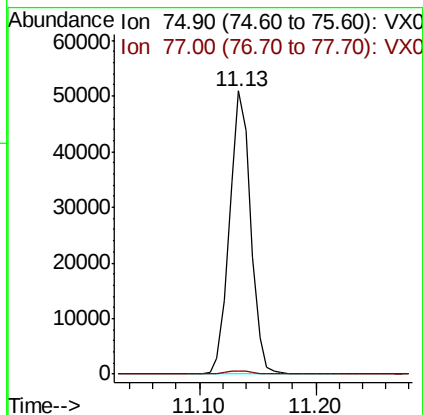
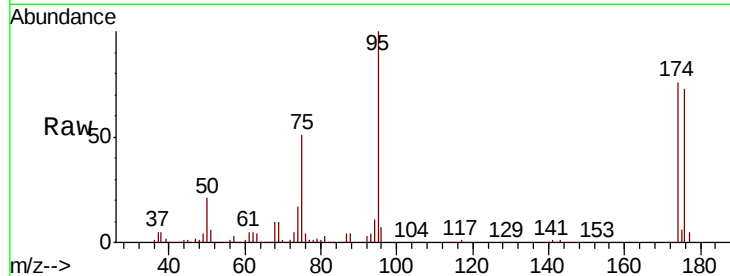
S32-0661

Tot Ion: 75 Resp: 64385

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.184 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010006.D

Acq: 01 Jun 2019 00:34

Tgt Ion: 75 Resp: 64385

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#

