

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\
 Data File : VX010004.D
 Acq On : 31 May 2019 23:47
 Operator : JC/SP
 Sample : K3128-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0660

Quant Time: Jun 01 04:47:45 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	183380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	290691	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119335	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	120464	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
35) Dibromofluoromethane	5.50	113	89853	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	8.71	98	369377	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	11.13	95	126520	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	

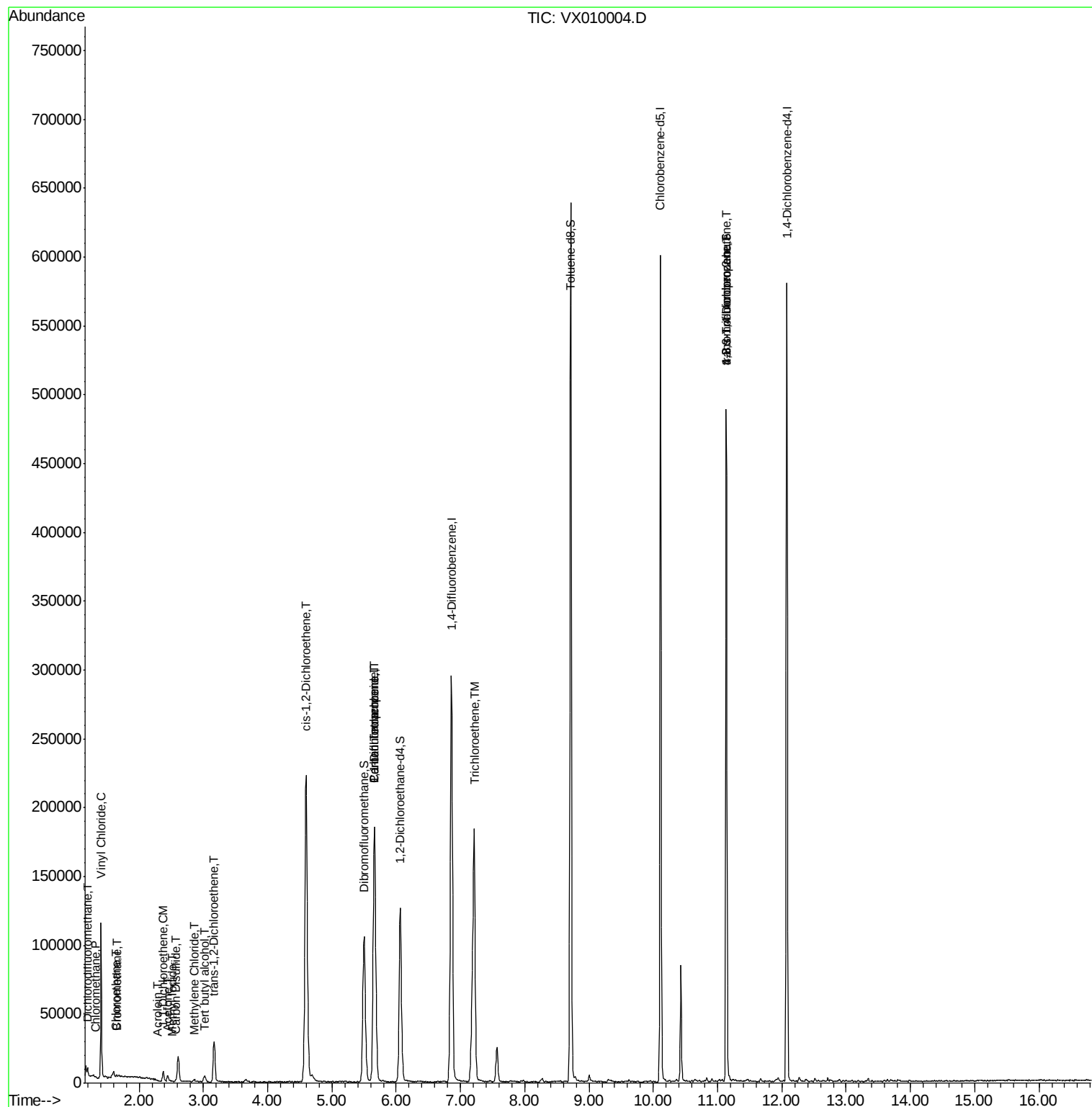
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	3442	1.536	ug/l	94
3) Chloromethane	1.33	50	795	0.264	ug/l	98
4) Vinyl Chloride	1.41	62	76282	28.089	ug/l	98
5) Bromomethane	1.65	94	431	0.262	ug/l #	76
6) Chloroethane	1.64	64	366	0.219	ug/l #	43
10) Methyl Iodide	2.52	142	351	4.799	ug/l #	81
11) Tert butyl alcohol	3.01	59	2855	4.478	ug/l #	75
12) 1,1-Dichloroethene	2.37	96	2389	1.286	ug/l	91
13) Acrolein	2.29	56	111	21.322	ug/l	100
16) Acetone	2.45	43	5023	3.356	ug/l	95
17) Carbon Disulfide	2.57	76	2131	0.761	ug/l #	85
20) Methylene Chloride	2.86	84	701	0.306	ug/l #	84
21) trans-1,2-Dichloroethene	3.17	96	11769	5.695	ug/l	96
27) cis-1,2-Dichloroethene	4.60	96	137421	57.612	ug/l	86
36) 1,1-Dichloropropene	5.66	75	14144	4.796	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16721	6.561	ug/l #	17
44) Trichloroethene	7.21	130	65365	30.757	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	65074	22.804	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	65074	56.420	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: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampleId :

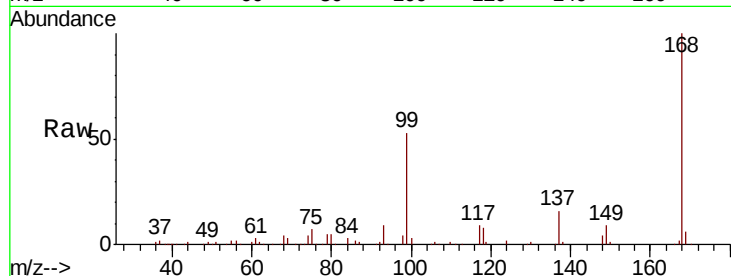
S32-0660

Tot Ion:168 Resp: 183380

Ion Ratio Lower Upper

168 100

99 52.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.67

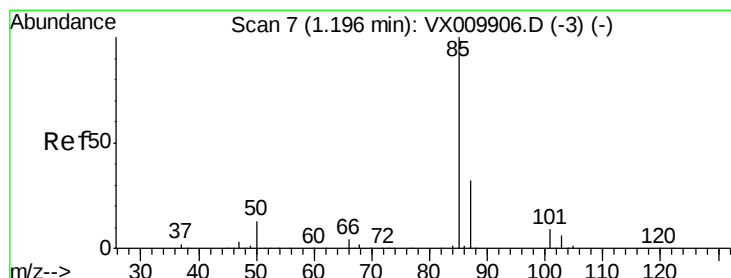
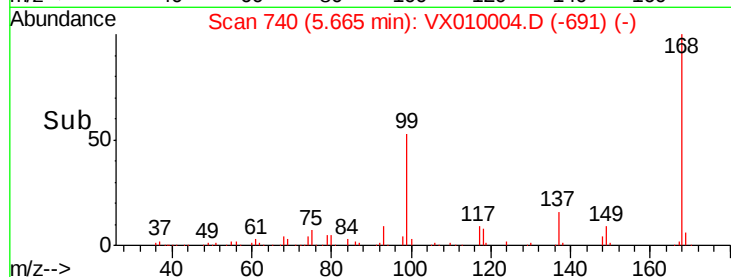
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.536 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX010004.D

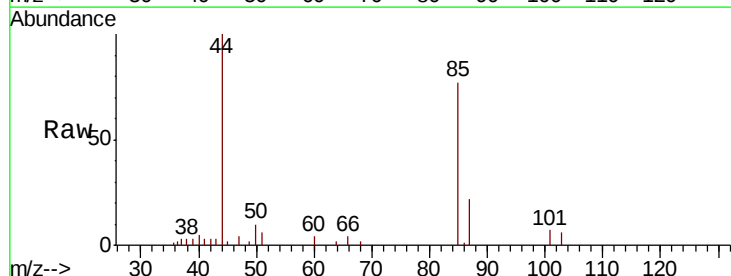
Acq: 31 May 2019 23:47

Tgt Ion: 85 Resp: 3442

Ion Ratio Lower Upper

85 100

87 28.5 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

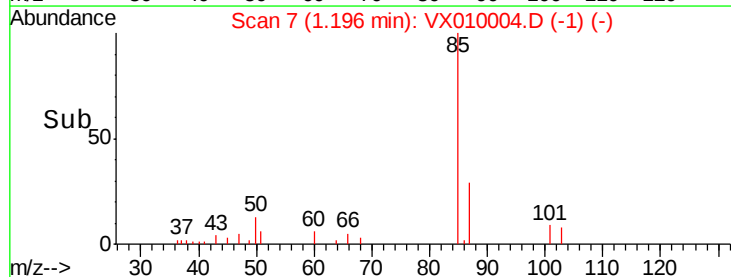
3000

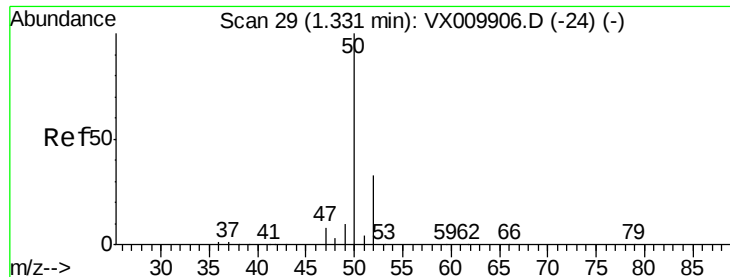
2000

1000

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.264 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampled :

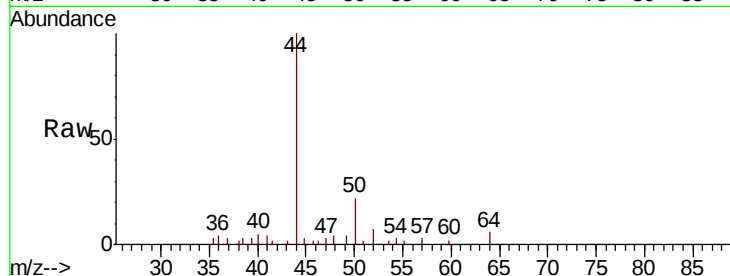
S32-0660

Tot Ion: 50 Resp: 795

Ion Ratio Lower Upper

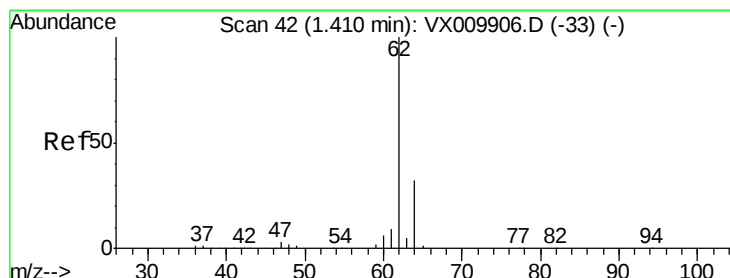
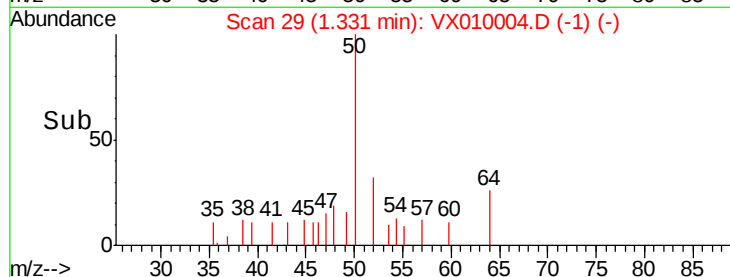
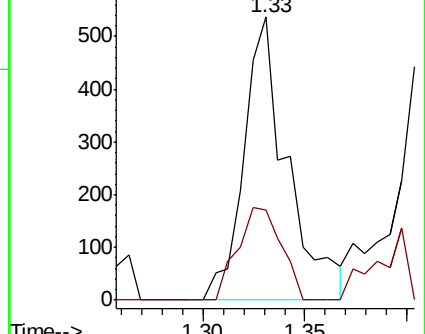
50 100

52 31.7 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: 28.089 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010004.D

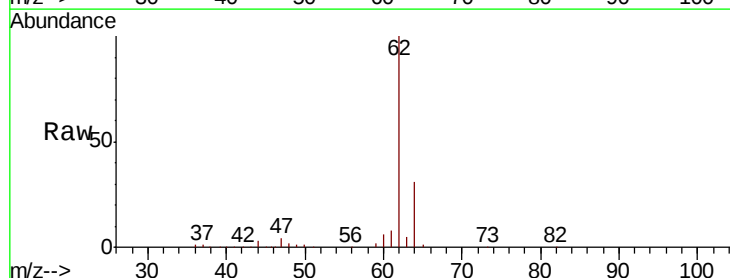
Acq: 31 May 2019 23:47

Tgt Ion: 62 Resp: 76282

Ion Ratio Lower Upper

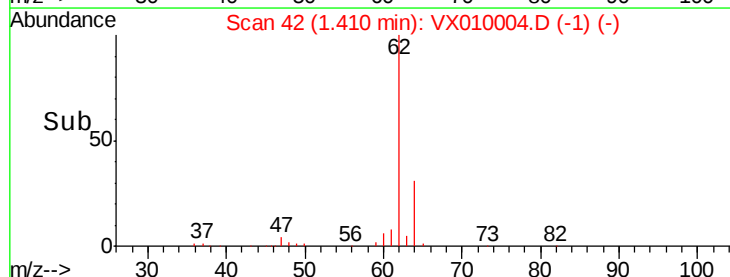
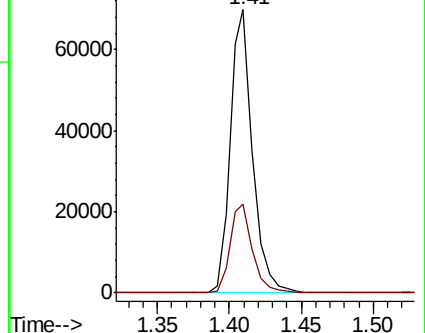
62 100

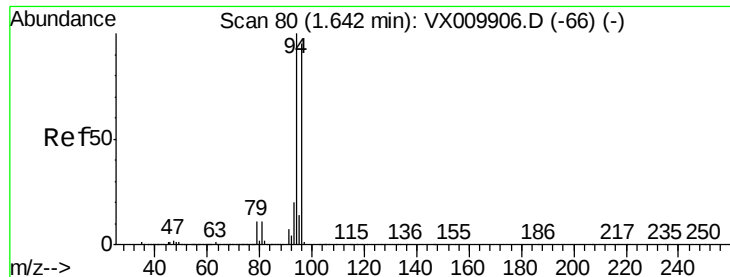
64 31.1 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.262 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampled :

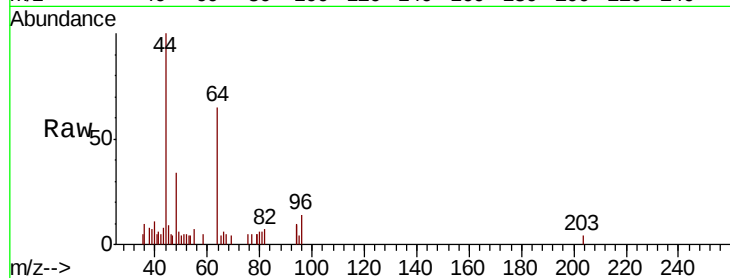
S32-0660

Tot Ion: 94 Resp: 431

Ion Ratio Lower Upper

94 100

96 71.8 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

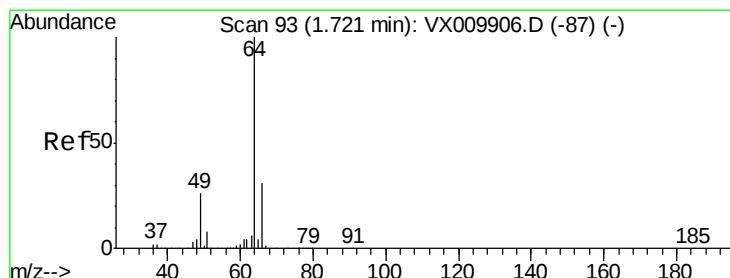
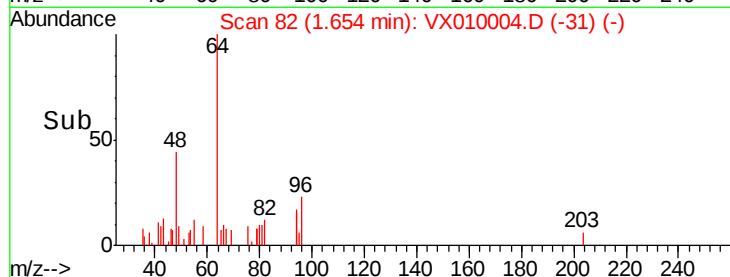
150

100

50

0

Time-->



#6

Chloroethane

Concen: 0.219 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.08 min

Lab File: VX010004.D

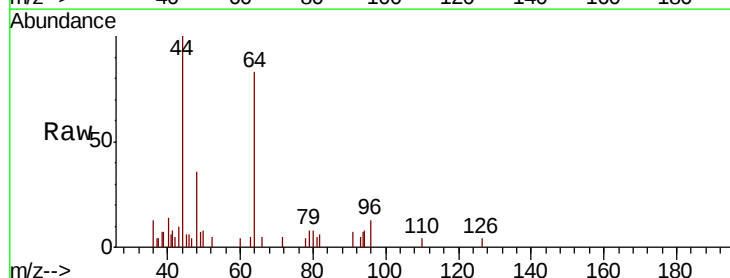
Acq: 31 May 2019 23:47

Tgt Ion: 64 Resp: 366

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.64

1200

1000

800

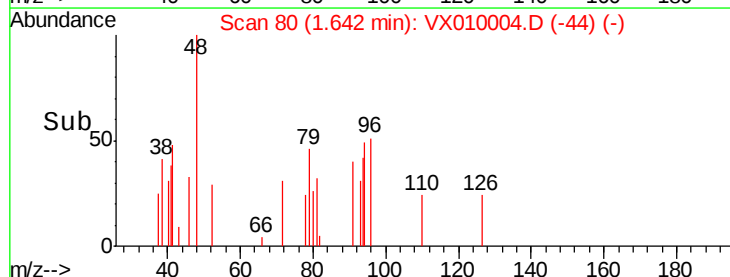
600

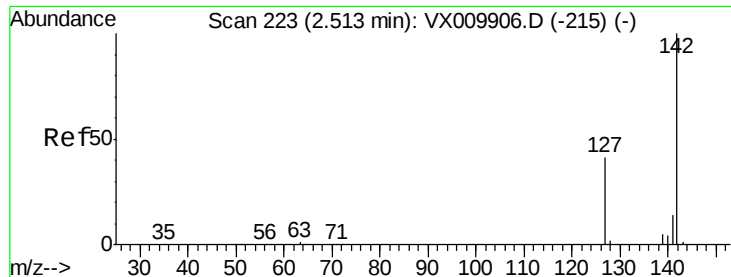
400

200

0

Time-->

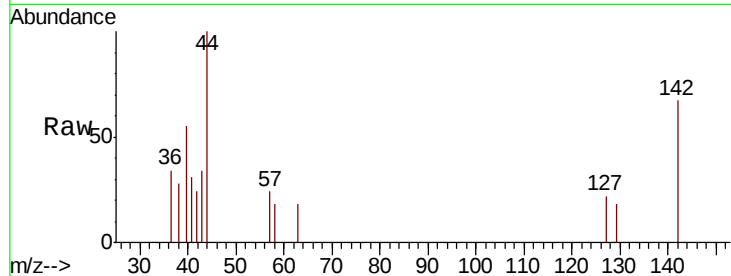




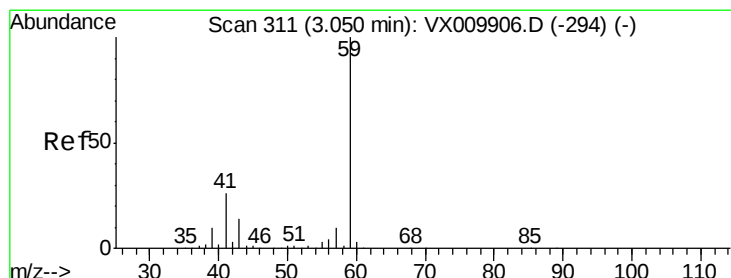
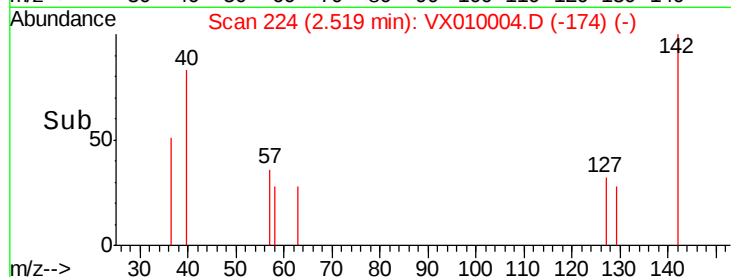
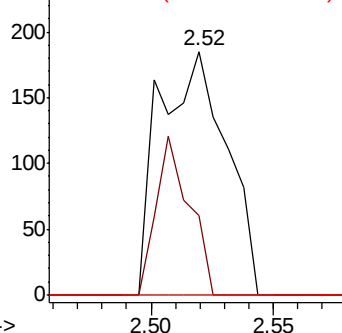
#10
Methvl Iodide
Concen: 4.799 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010004.D
Acq: 31 May 2019 23:47

Instrument :
MSVOA_X
ClientSampleId :
S32-0660

Tot Ion:142 Resp: 351
Ion Ratio Lower Upper
142 100
127 32.5 33.0 49.4#
141 0.0 11.4 17.0#

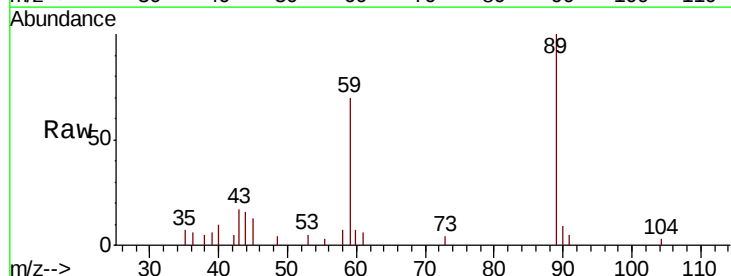


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

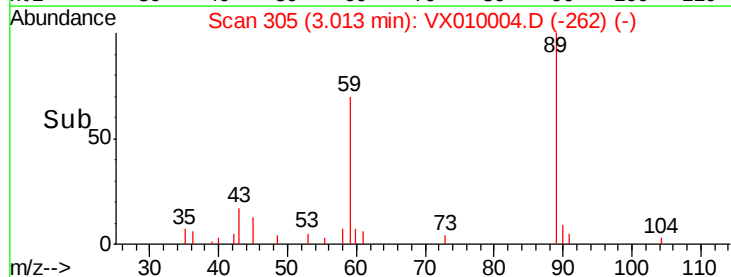
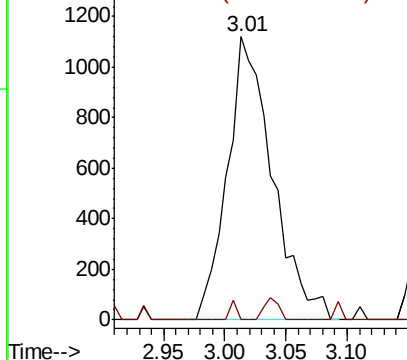


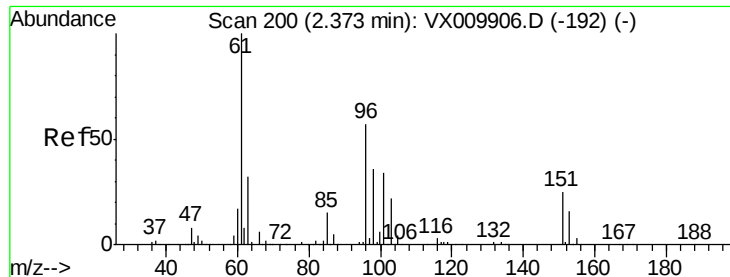
#11
Tert butyl alcohol
Concen: 4.478 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010004.D
Acq: 31 May 2019 23:47

Tgt Ion: 59 Resp: 2855
Ion Ratio Lower Upper
59 100
57 1.0 8.2 12.2#



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





#12

1,1-Dichloroethene

Concen: 1.286 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampleId :

S32-0660

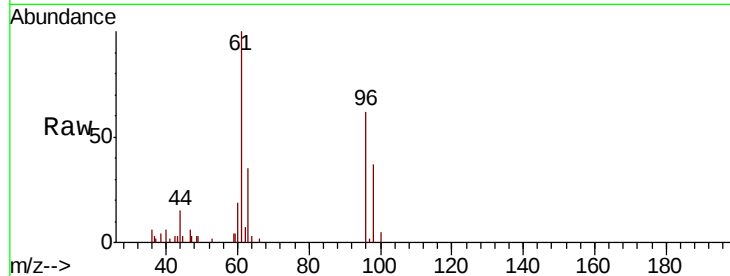
Tot Ion: 96 Resp: 2389

Ion Ratio Lower Upper

96 100

61 160.7 140.7 211.1

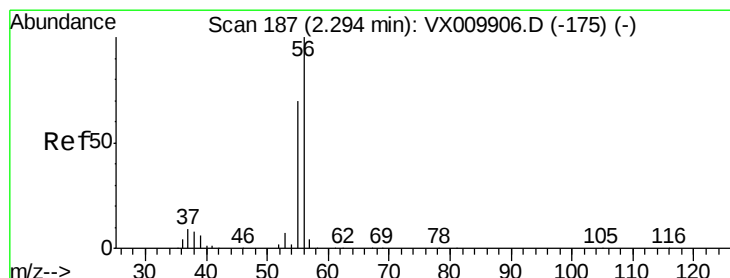
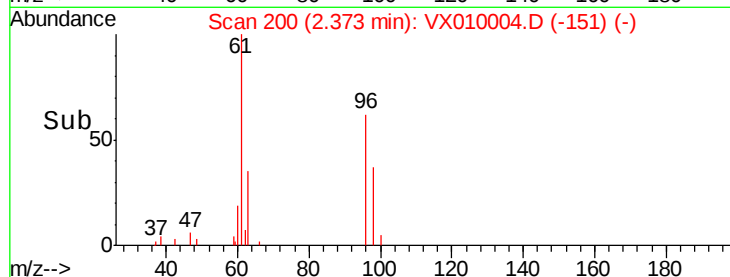
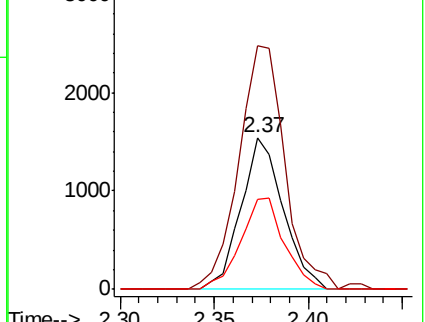
98 59.0 50.1 75.1



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 21.322 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010004.D

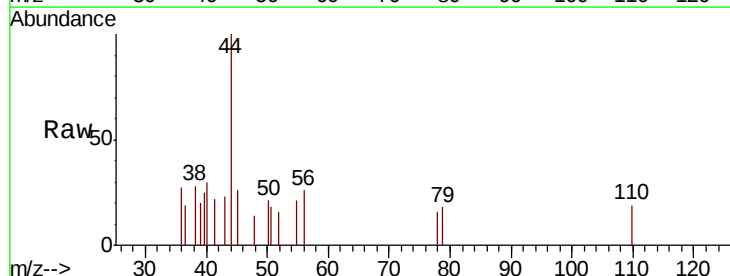
Acq: 31 May 2019 23:47

Tgt Ion: 56 Resp: 111

Ion Ratio Lower Upper

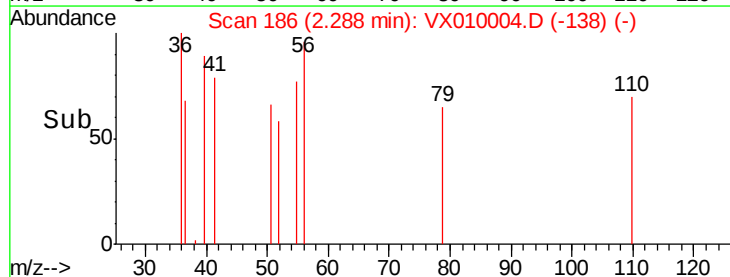
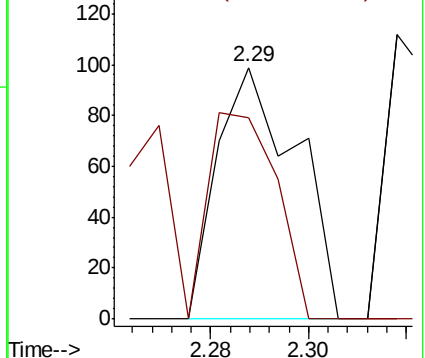
56 100

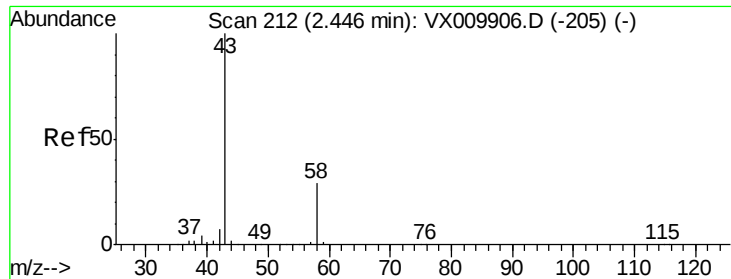
55 71.2 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 3.356 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampleId :

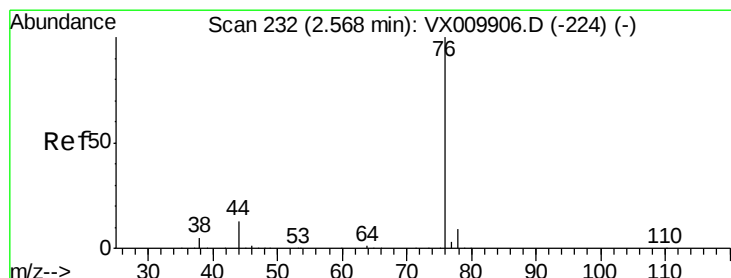
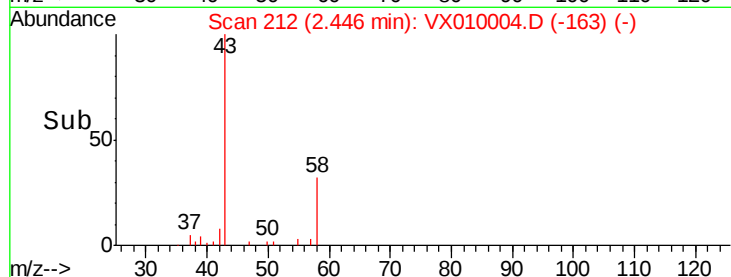
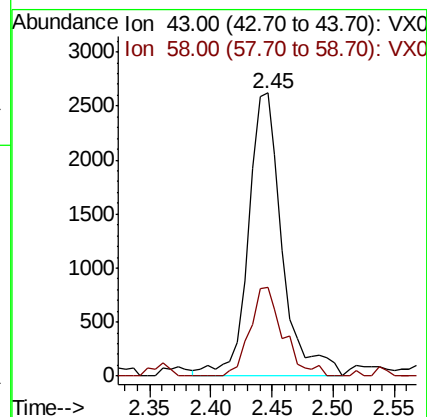
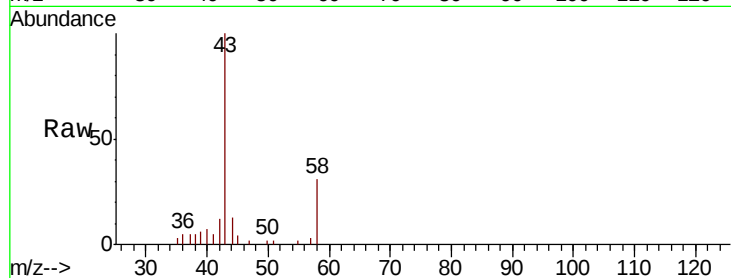
S32-0660

Tot Ion: 43 Resp: 5023

Ion Ratio Lower Upper

43 100

58 31.4 23.2 34.8



#17

Carbon Disulfide

Concen: 0.761 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010004.D

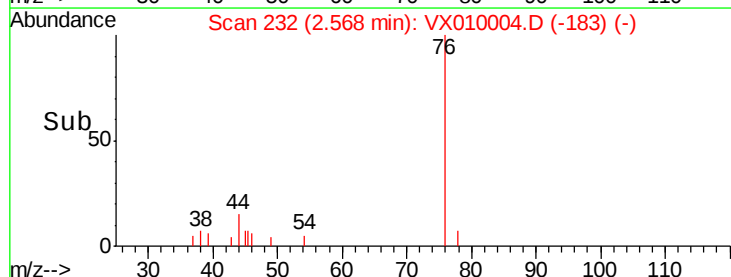
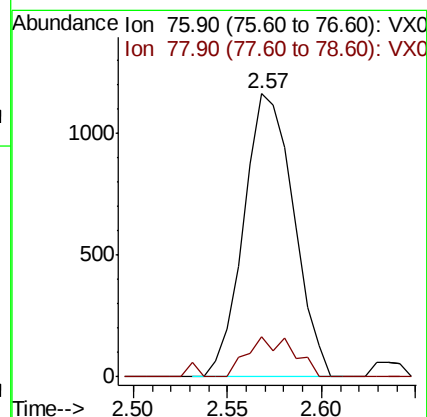
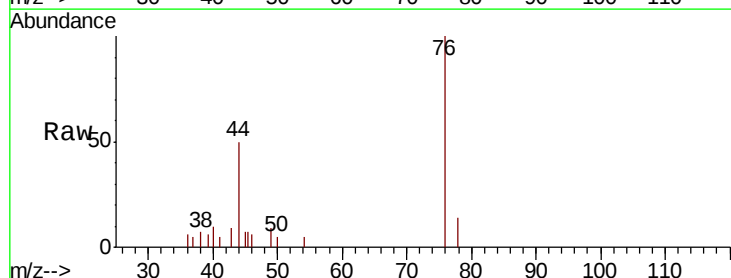
Acq: 31 May 2019 23:47

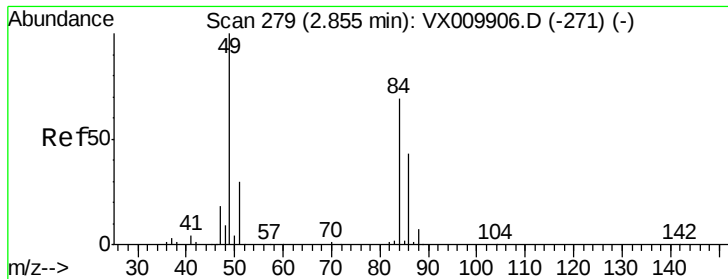
Tgt Ion: 76 Resp: 2131

Ion Ratio Lower Upper

76 100

78 14.2 7.0 10.6#

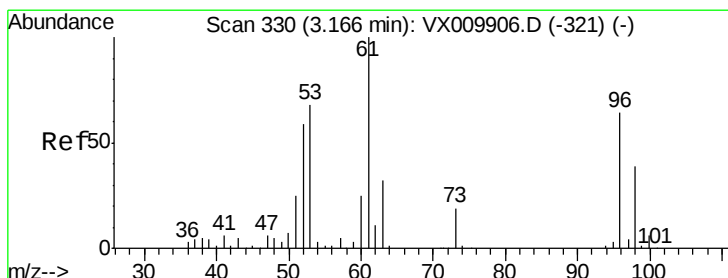
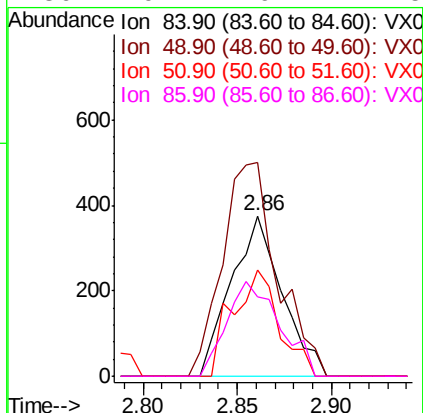
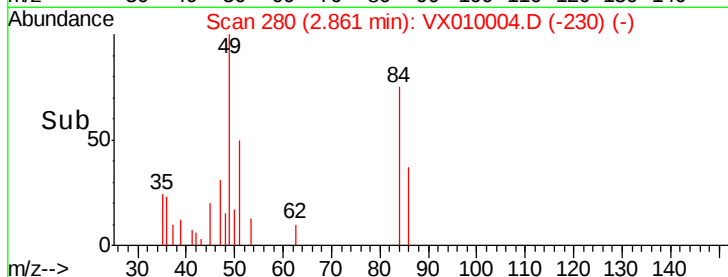
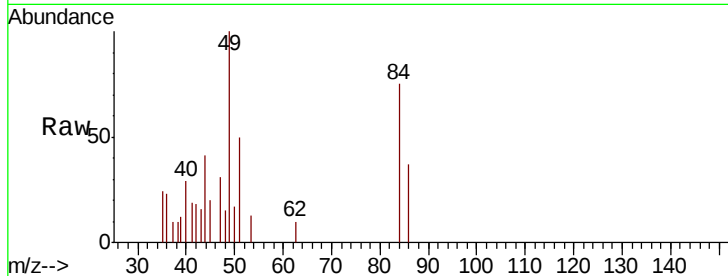




#20
Methvlene Chloride
Concen: 0.306 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010004.D
Acq: 31 May 2019 23:47

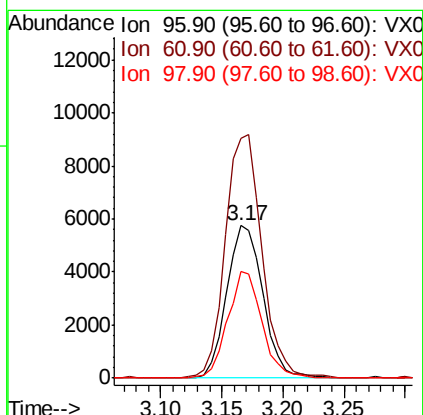
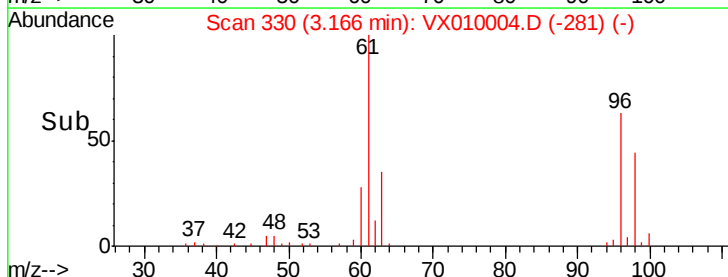
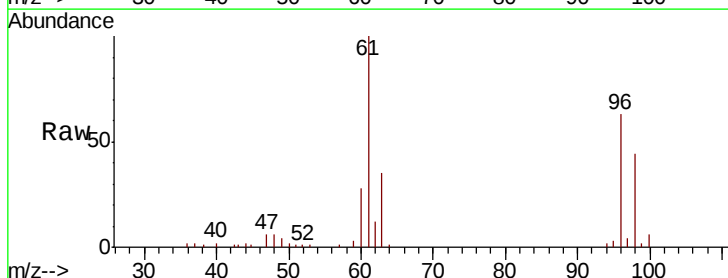
Instrument :
MSVOA_X
ClientSampleId :
S32-0660

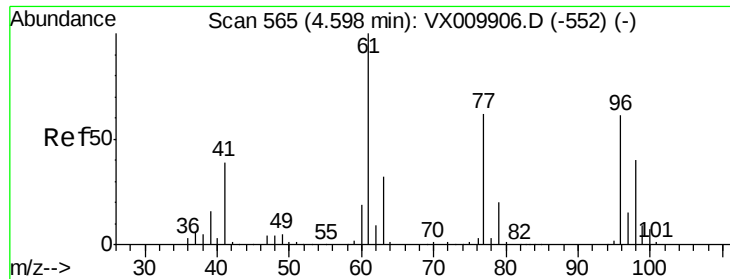
Tot Ion: 84 Resp: 701
Ion Ratio Lower Upper
84 100
49 133.0 115.8 173.6
51 66.0 34.4 51.6#
86 49.7 49.7 74.5



#21
trans-1,2-Dichloroethene
Concen: 5.695 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX010004.D
Acq: 31 May 2019 23:47

Tgt Ion: 96 Resp: 11769
Ion Ratio Lower Upper
96 100
61 157.8 125.7 188.5
98 69.8 49.0 73.6



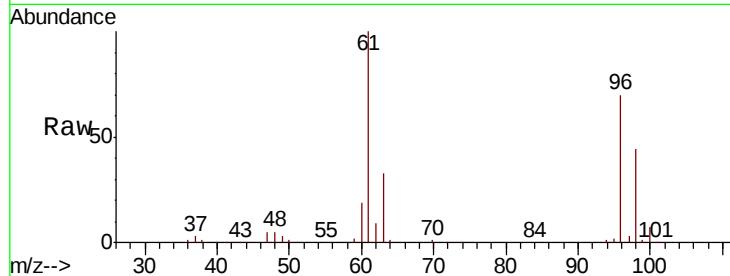


#27

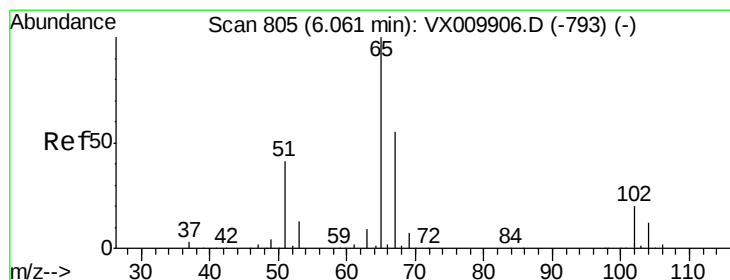
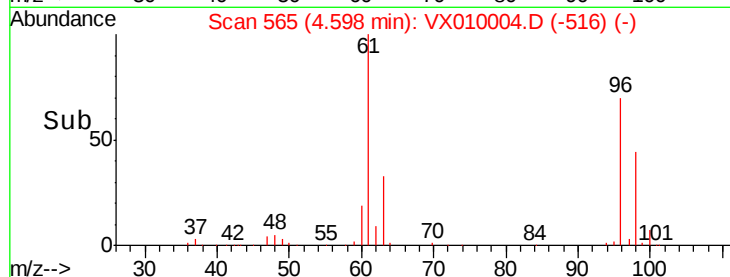
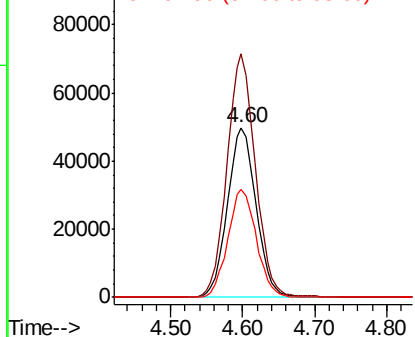
cis-1,2-Dichloroethene
 Concen: 57.612 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX010004.D
 Acq: 31 May 2019 23:47

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0660

Tot Ion: 96 Resp: 137421
 Ion Ratio Lower Upper
 96 100
 61 142.4 0.0 334.0
 98 63.4 0.0 131.6



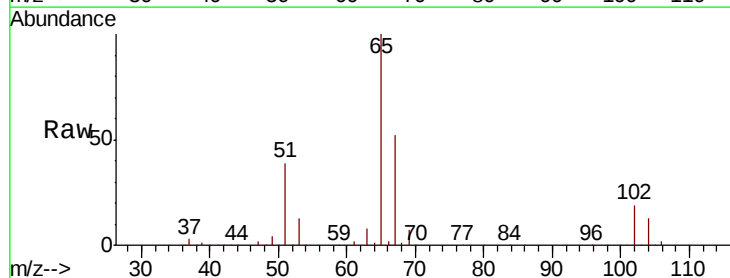
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



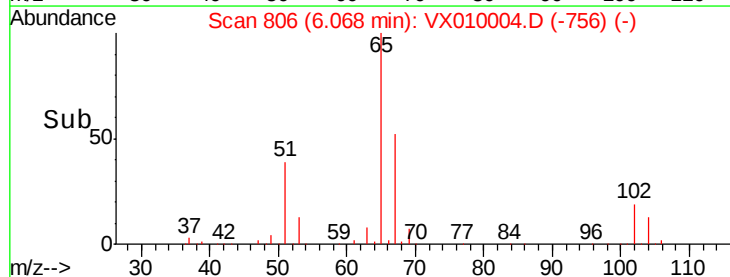
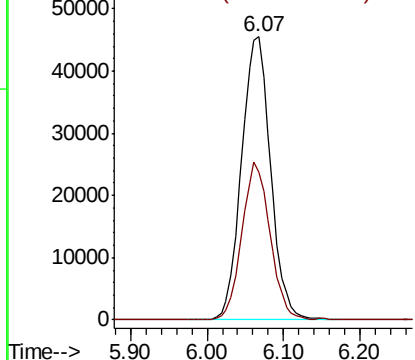
#33

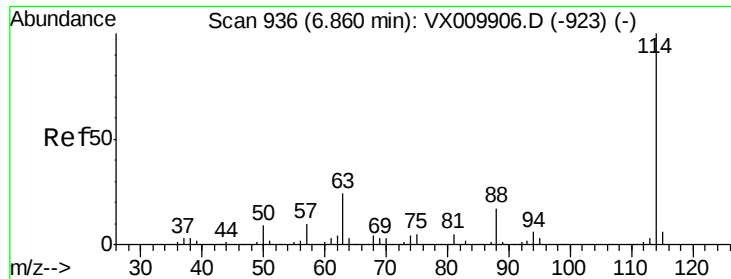
1,2-Dichloroethane-d4
 Concen: 46.504 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX010004.D
 Acq: 31 May 2019 23:47

Tgt Ion: 65 Resp: 120464
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
 Ion 66.90 (66.60 to 67.60): VX0

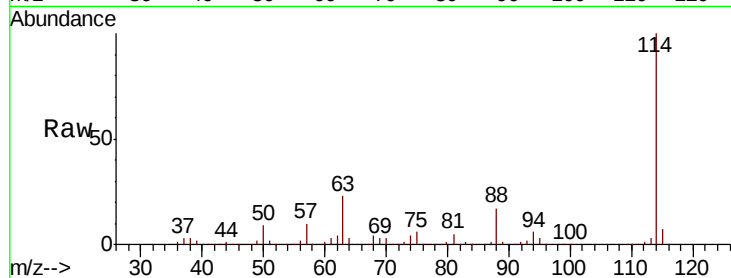




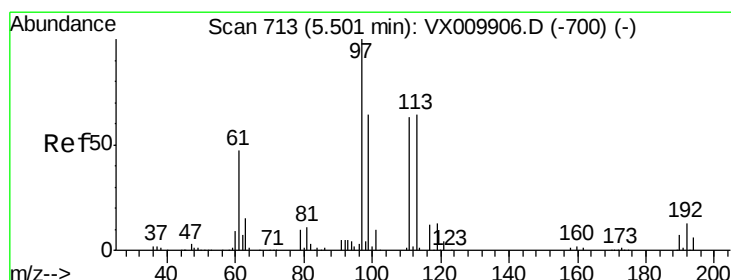
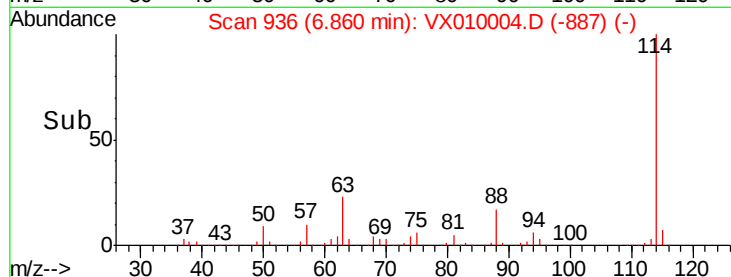
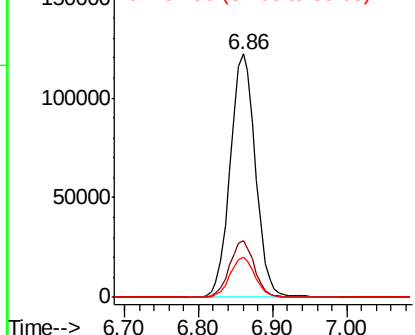
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX010004.D
Acq: 31 May 2019 23:47

Instrument :
MSVOA_X
ClientSampleId :
S32-0660

Tot Ion:114 Resp: 290691
Ion Ratio Lower Upper
114 100
63 23.1 0.0 47.4
88 16.7 0.0 33.0

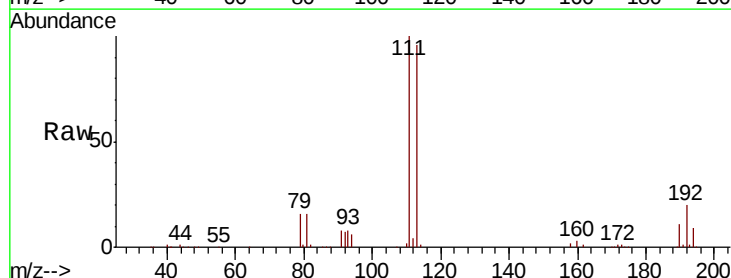


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

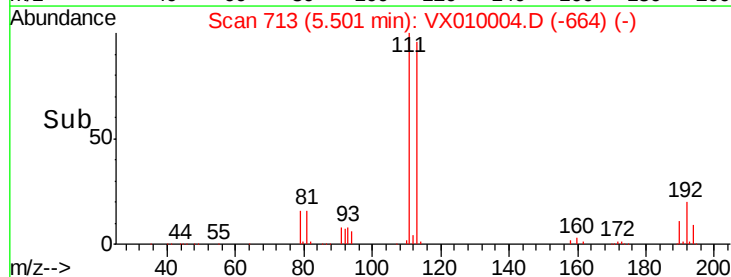
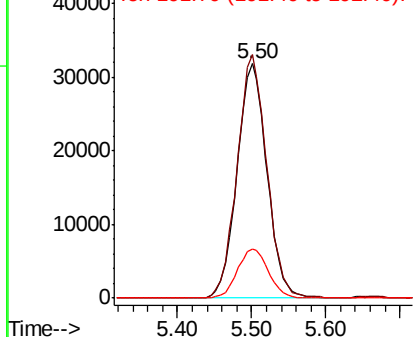


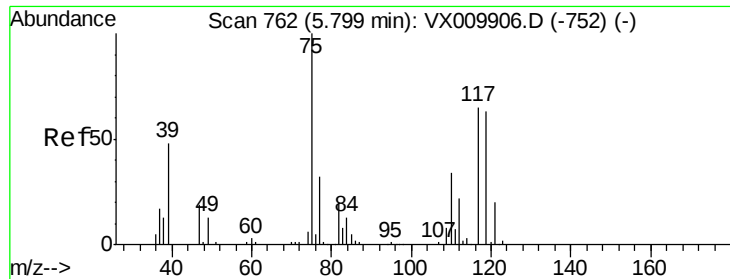
#35
Dibromofluoromethane
Concen: 49.165 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010004.D
Acq: 31 May 2019 23:47

Tgt Ion:113 Resp: 89853
Ion Ratio Lower Upper
113 100
111 103.0 82.2 123.2
192 21.6 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: 4.796 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampleId :

S32-0660

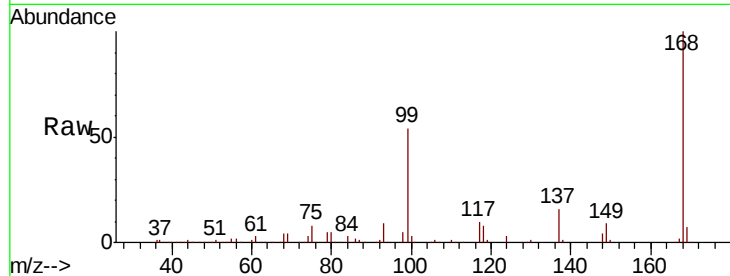
Tot Ion: 75 Resp: 14144

Ion Ratio Lower Upper

75 100

110 8.9 16.7 50.1#

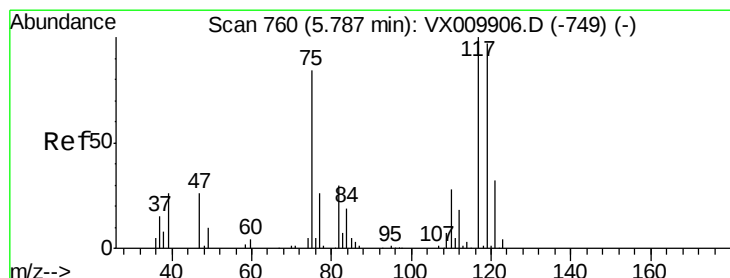
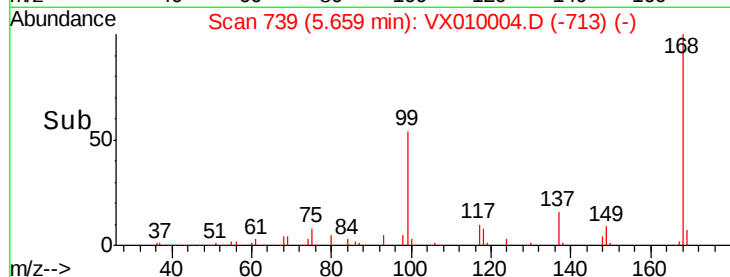
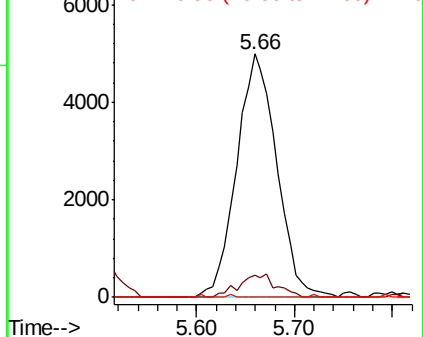
77 0.0 25.0 37.4#



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: 6.561 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

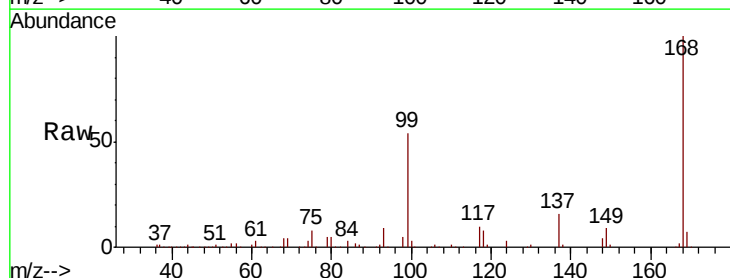
Tgt Ion:117 Resp: 16721

Ion Ratio Lower Upper

117 100

119 6.6 77.3 115.9#

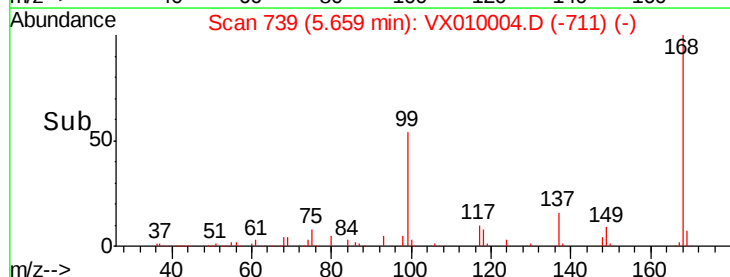
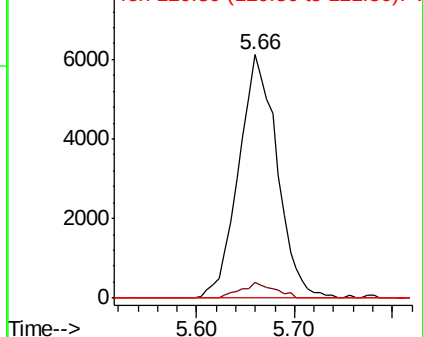
121 0.0 25.4 38.0#

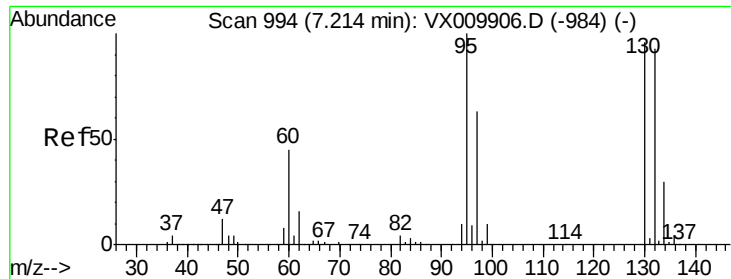


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 30.757 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampleId :

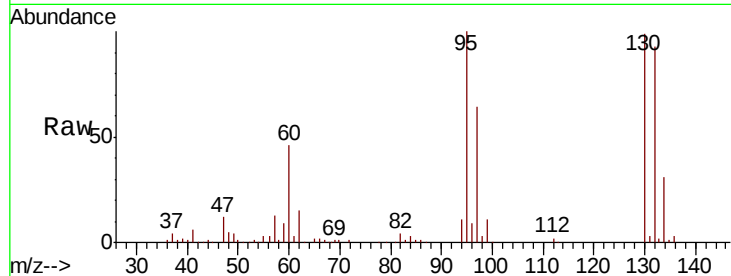
S32-0660

Tot Ion:130 Resp: 65365

Ion Ratio Lower Upper

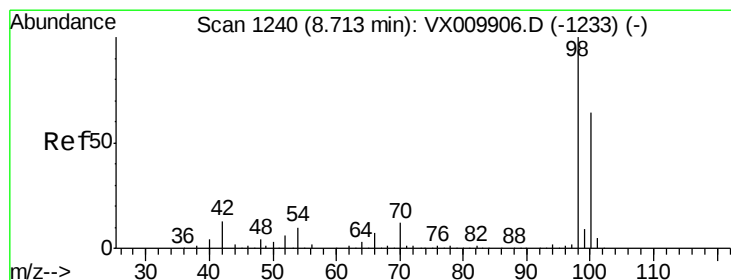
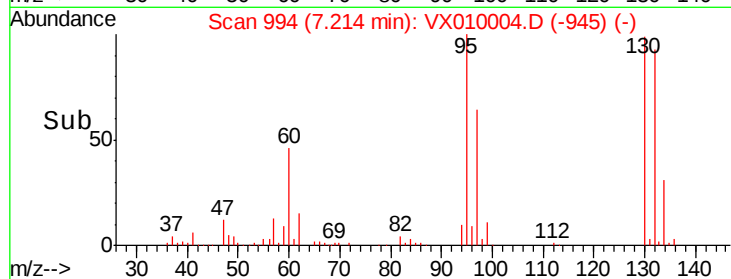
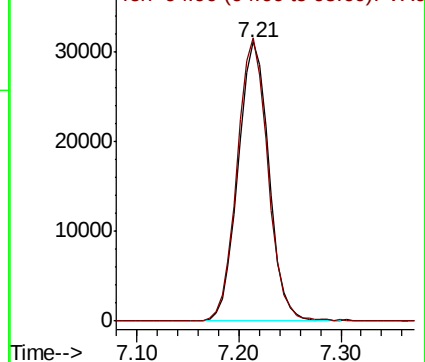
130 100

95 101.3 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.772 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010004.D

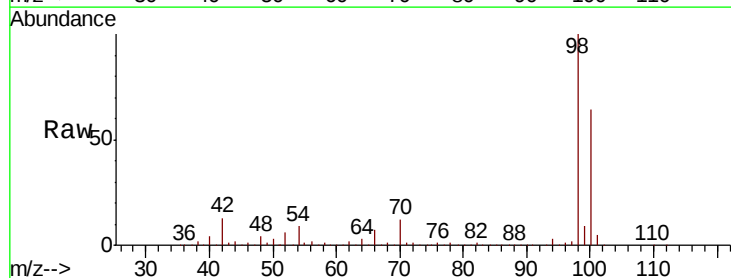
Acq: 31 May 2019 23:47

Tgt Ion: 98 Resp: 369377

Ion Ratio Lower Upper

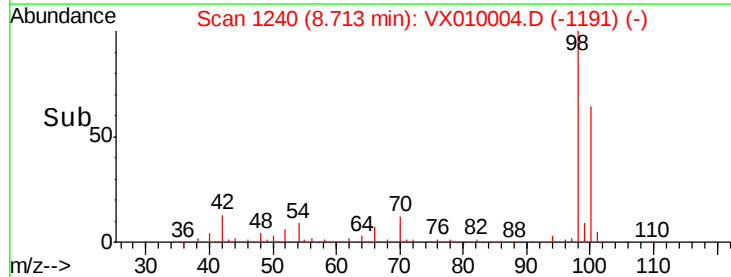
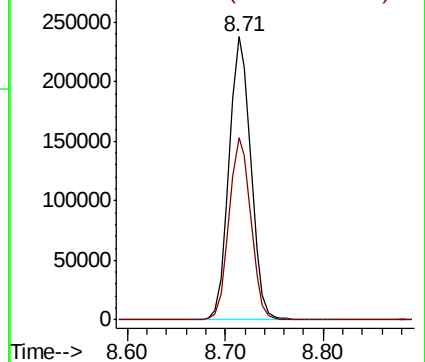
98 100

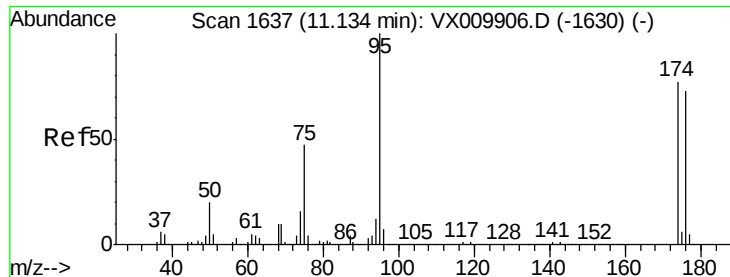
100 64.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.463 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampled :

S32-0660

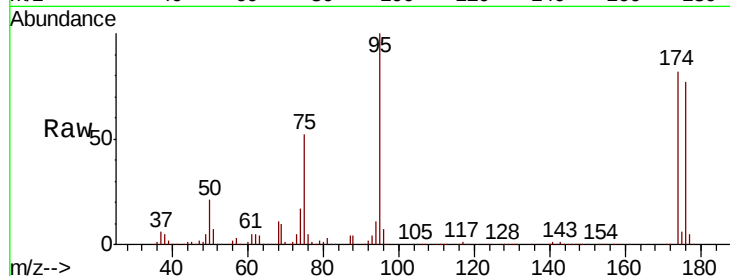
Tot Ion: 95 Resp: 126520

Ion Ratio Lower Upper

95 100

174 84.5 0.0 160.4

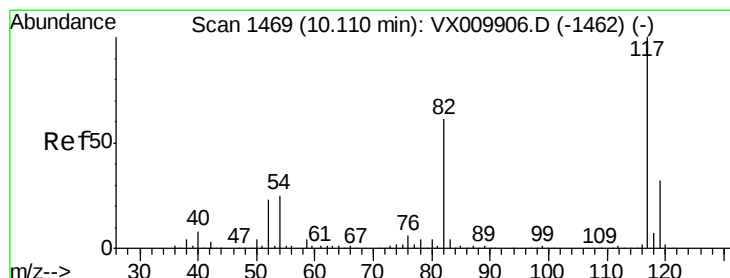
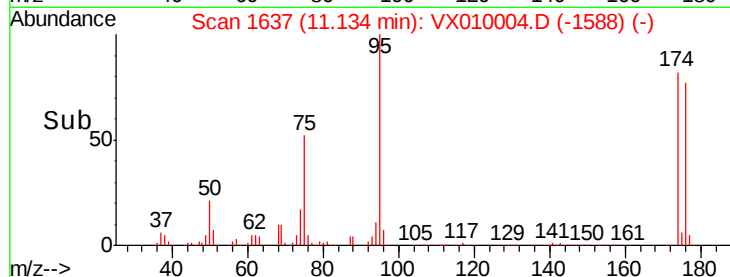
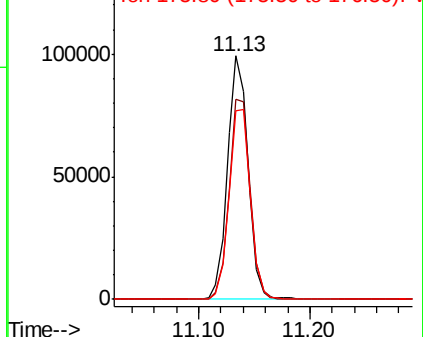
176 80.9 0.0 154.6



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: VX010004.D

Acq: 31 May 2019 23:47

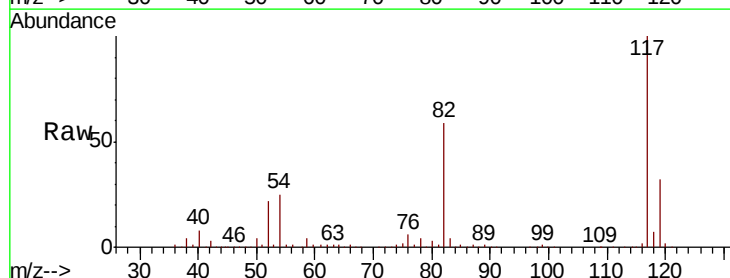
Tgt Ion: 117 Resp: 263793

Ion Ratio Lower Upper

117 100

82 59.1 49.2 73.8

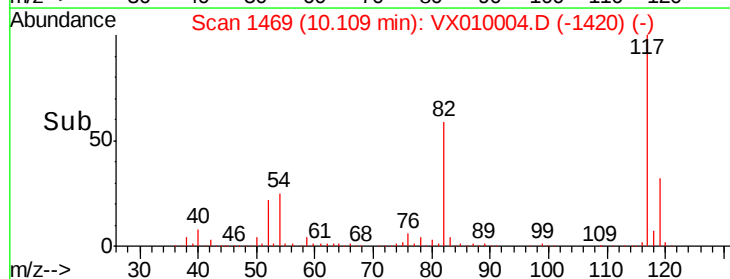
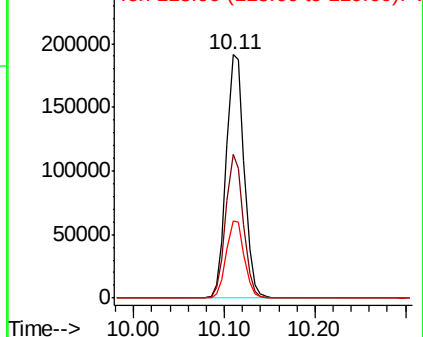
119 31.8 25.2 37.8

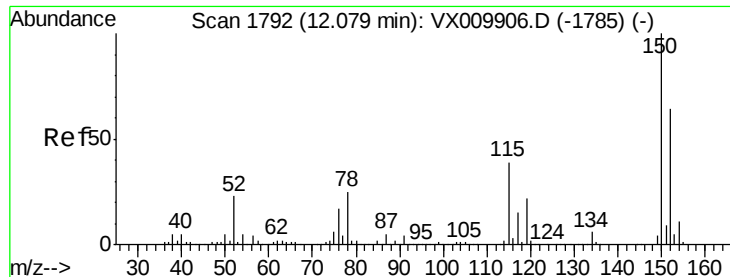


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampleId :

S32-0660

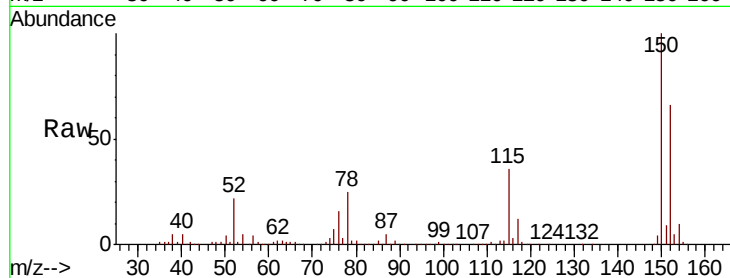
Tot Ion:152 Resp: 119335

Ion Ratio Lower Upper

152 100

115 57.4 41.4 124.2

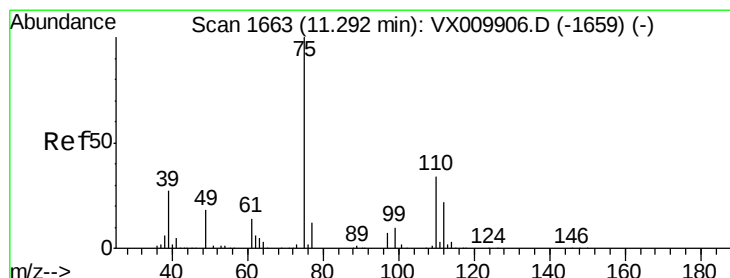
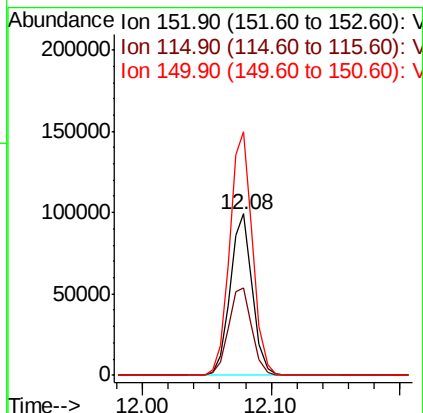
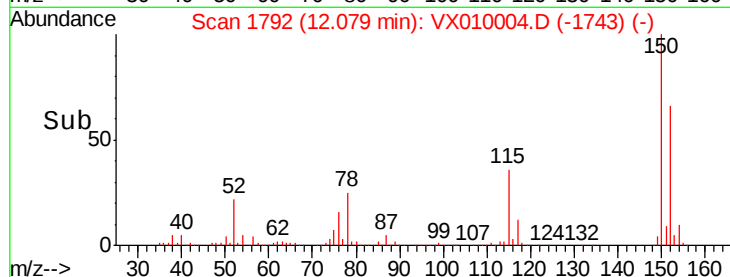
150 155.4 0.0 345.2



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: 22.804 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010004.D

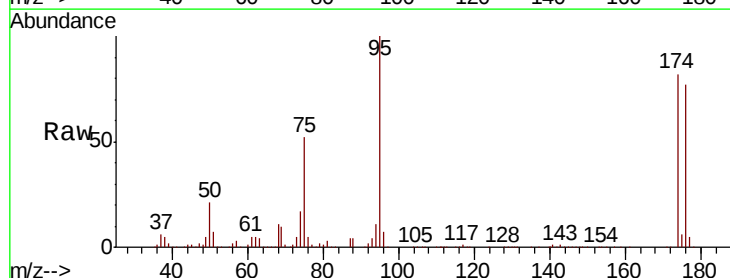
Acq: 31 May 2019 23:47

Tgt Ion: 75 Resp: 65074

Ion Ratio Lower Upper

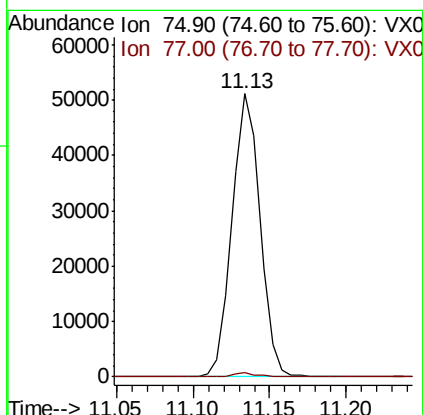
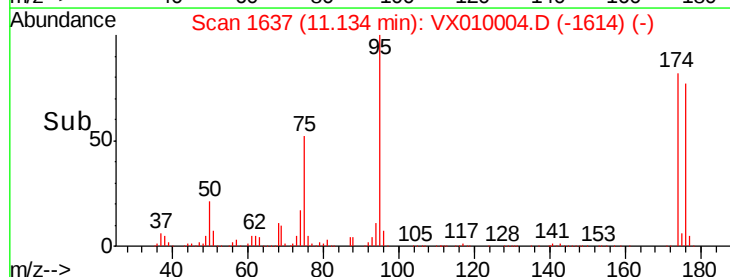
75 100

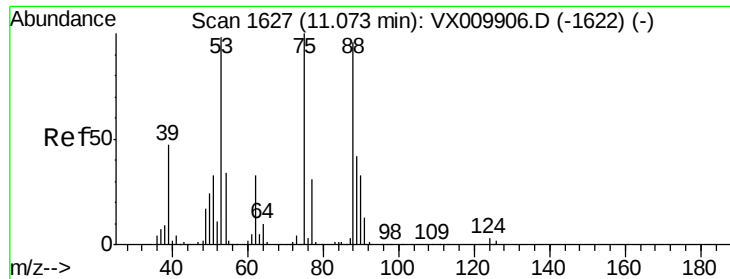
77 1.3 22.1 66.1#



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: 56.420 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010004.D

Acq: 31 May 2019 23:47

Instrument :

MSVOA_X

ClientSampleId :

S32-0660

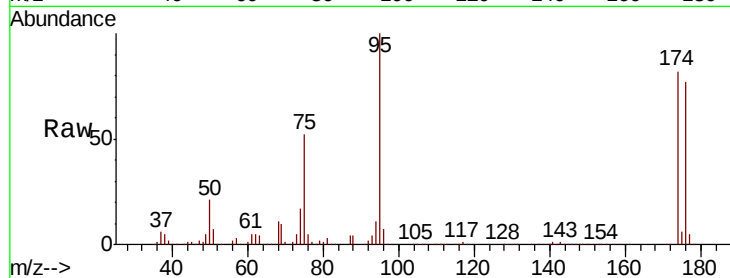
Tot Ion: 75 Resp: 65074

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

