

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX040419\
 Data File : VX008628.D
 Acq On : 04 Apr 2019 12:14
 Operator : JC/SP
 Sample : K2242-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Quant Time: Apr 05 07:03:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	220740	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	368134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	320631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	133823	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	155293	48.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.46%	
35) Dibromofluoromethane	5.50	113	113385	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
50) Toluene-d8	8.71	98	465031	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
62) 4-Bromofluorobenzene	11.13	95	157991	47.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.08%	

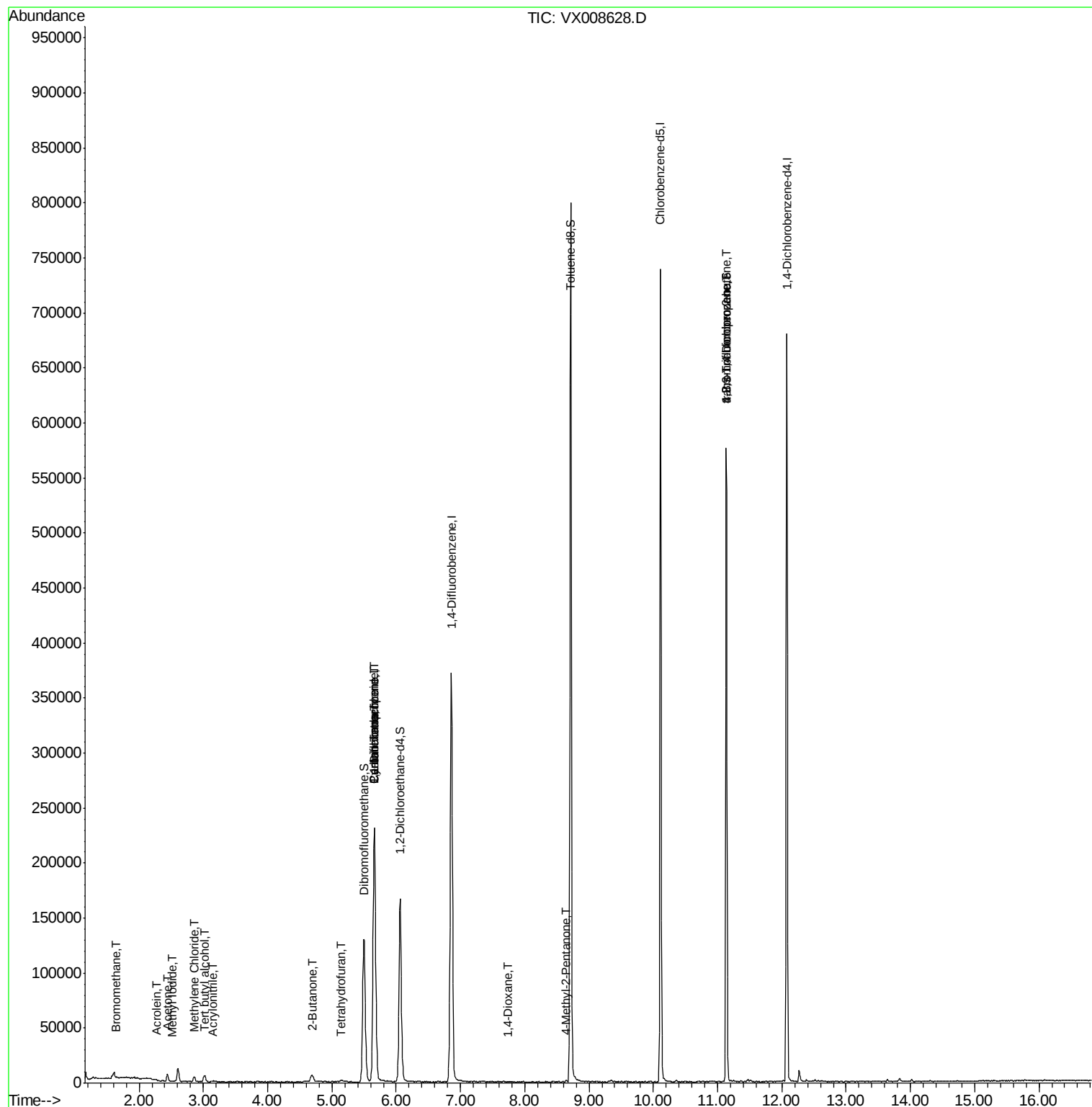
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	725	Below Cal		91
5) Bromomethane	1.64	94	529	2.186 ug/l #		76
6) Chloroethane	1.70	64	1559	Below Cal #		51
10) Methyl Iodide	2.51	142	450	4.189 ug/l #		62
11) Tert butyl alcohol	3.01	59	3959	5.252 ug/l #		72
13) Acrolein	2.28	56	149	0.399 ug/l #		57
15) Acrylonitrile	3.15	53	518	0.259 ug/l #		85
16) Acetone	2.44	43	7190	3.877 ug/l		93
17) Carbon Disulfide	2.57	76	1481	Below Cal #		89
20) Methylene Chloride	2.85	84	1997	0.643 ug/l		98
25) 2-Butanone	4.70	43	1805	0.616 ug/l		95
28) Bromochloromethane	4.99	49	167	Below Cal #		36
29) Tetrahydrofuran	5.15	42	1383	0.711 ug/l #		81
31) Cyclohexane	5.67	56	5422	0.975 ug/l #		1
36) 1,1-Dichloropropene	5.66	75	17705	4.400 ug/l #		50
38) Carbon Tetrachloride	5.67	117	21414	6.430 ug/l #		17
49) 1,4-Dioxane	7.75	88	22	0.276 ug/l #		1
51) 4-Methyl-2-Pentanone	8.64	43	1138	0.210 ug/l		99
76) 1,2,3-Trichloropropane	11.13	75	79997	21.761 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.13	75	79997	59.984 ug/l #		9

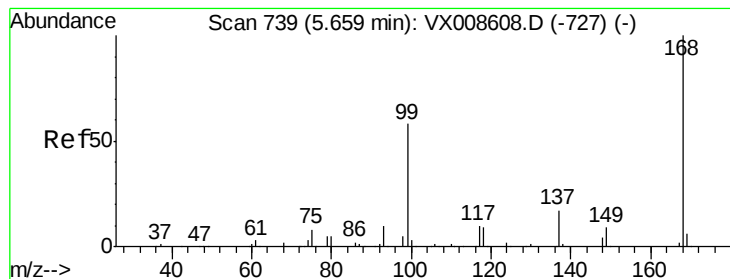
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

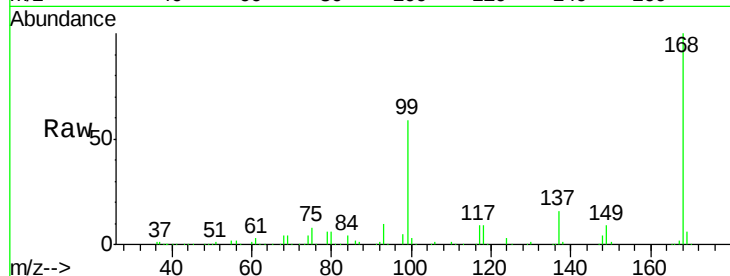
TRIP-BLANK

Tgt Ion:168 Resp: 220740

Ion Ratio Lower Upper

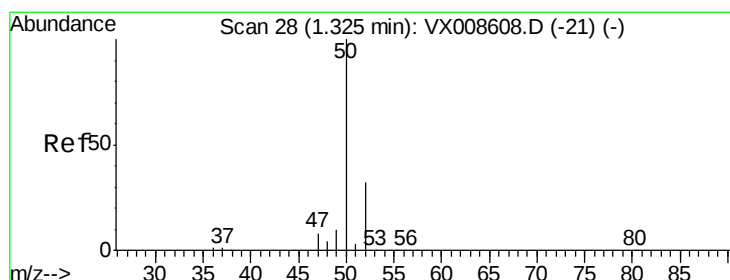
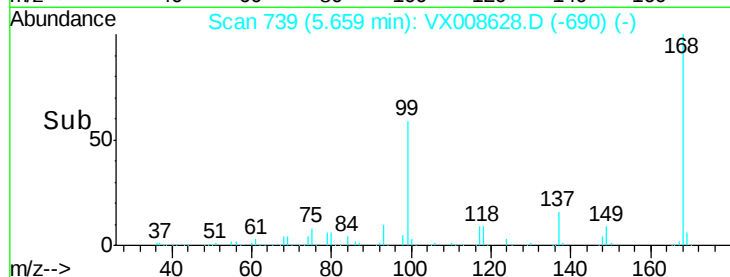
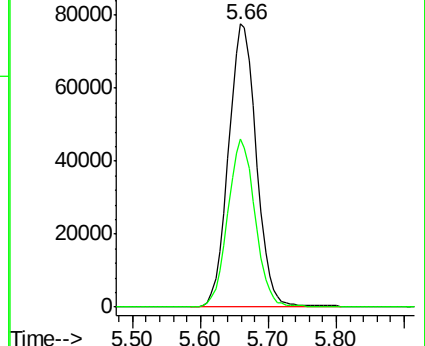
168 100

99 59.4 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008628.D

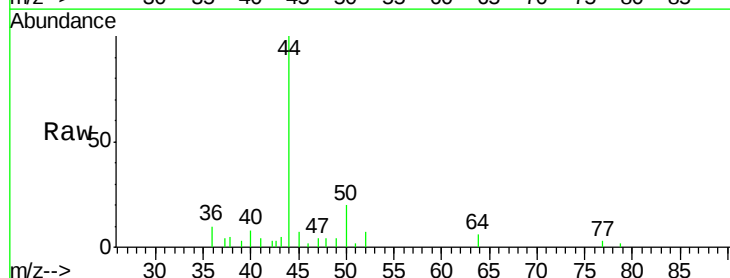
Acq: 04 Apr 2019 12:14

Tgt Ion: 50 Resp: 725

Ion Ratio Lower Upper

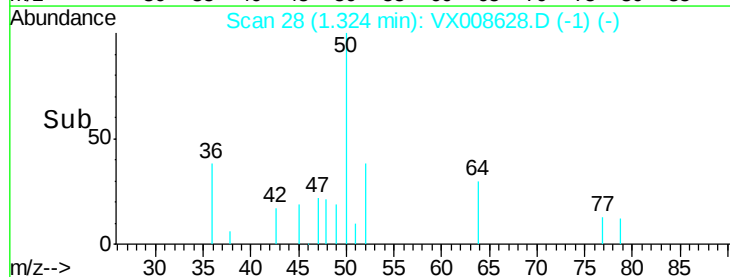
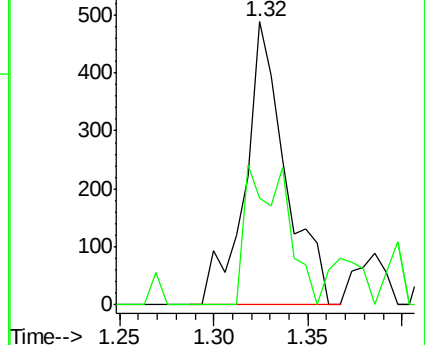
50 100

52 37.5 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.186 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampled :

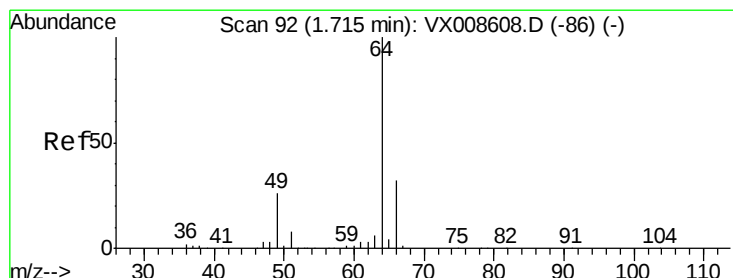
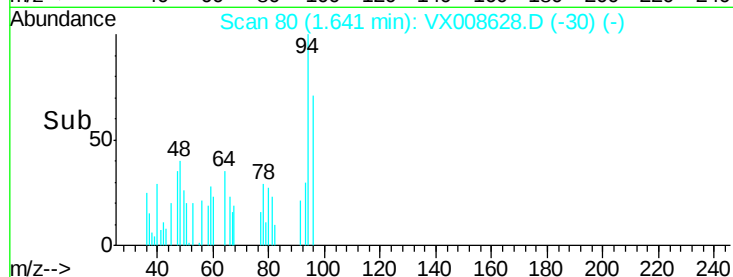
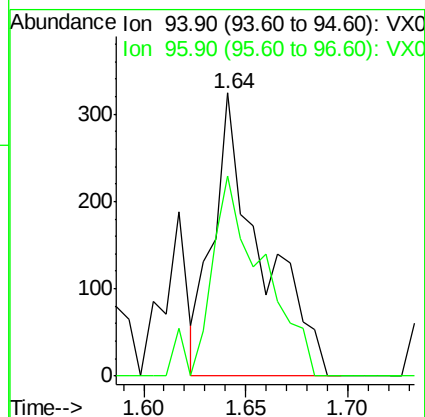
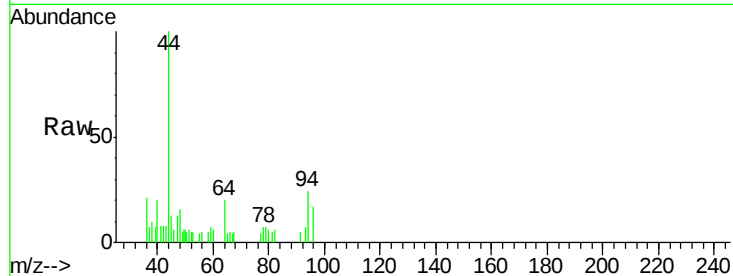
TRIP-BLANK

Tgt Ion: 94 Resp: 529

Ion Ratio Lower Upper

94 100

96 70.7 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX008628.D

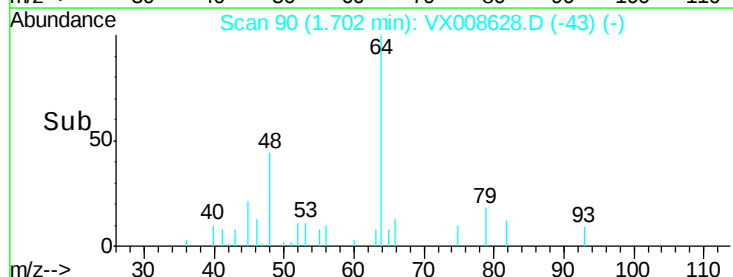
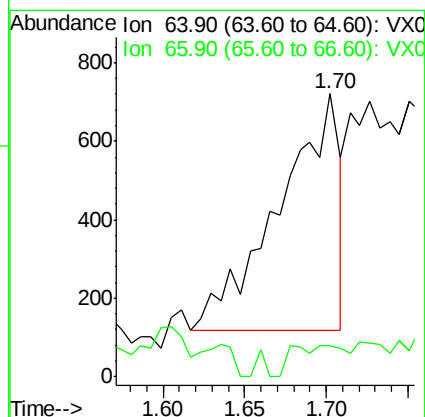
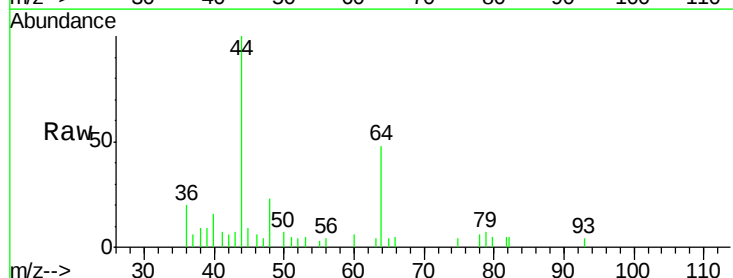
Acq: 04 Apr 2019 12:14

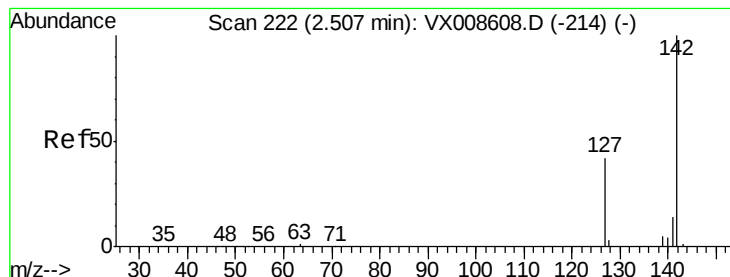
Tgt Ion: 64 Resp: 1559

Ion Ratio Lower Upper

64 100

66 4.7 25.4 38.0#





#10

Methyl Iodide

Concen: 4.189 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

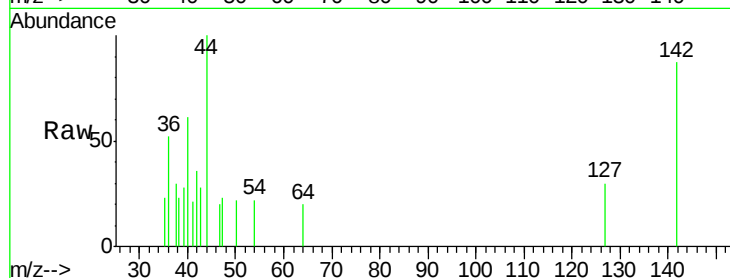
Tgt Ion: 142 Resp: 450

Ion Ratio Lower Upper

142 100

127 16.9 33.0 49.6#

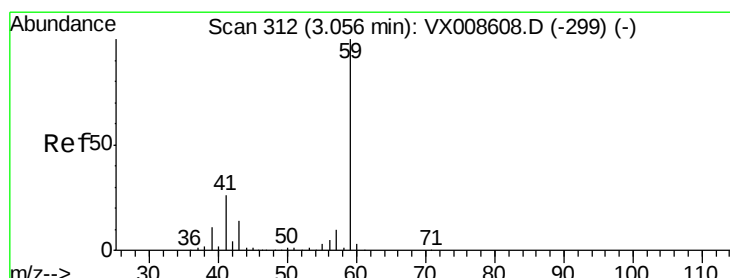
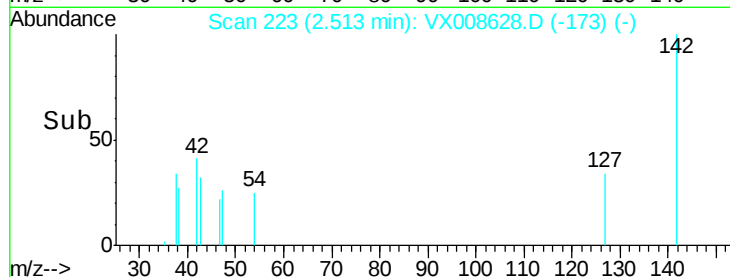
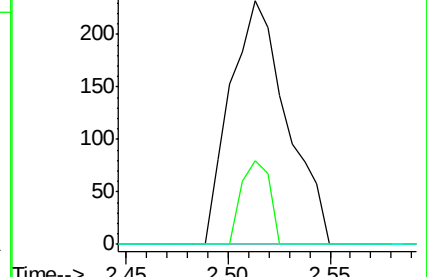
141 0.0 11.4 17.2#



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: 5.252 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX008628.D

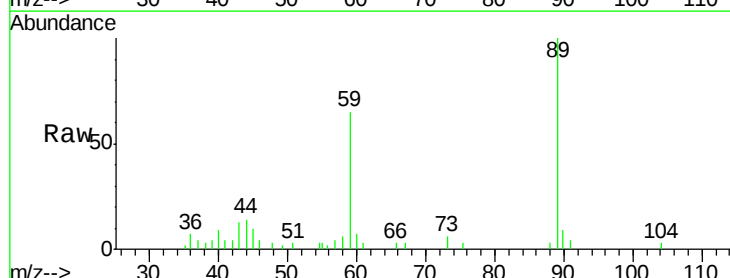
Acq: 04 Apr 2019 12:14

Tgt Ion: 59 Resp: 3959

Ion Ratio Lower Upper

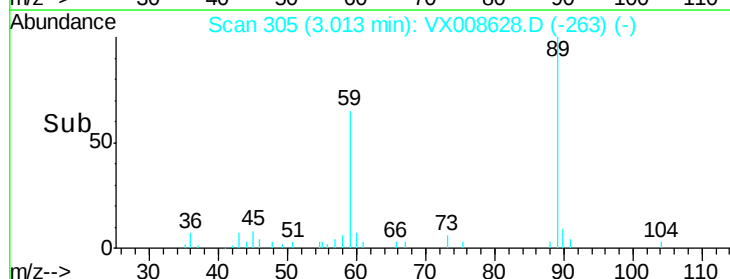
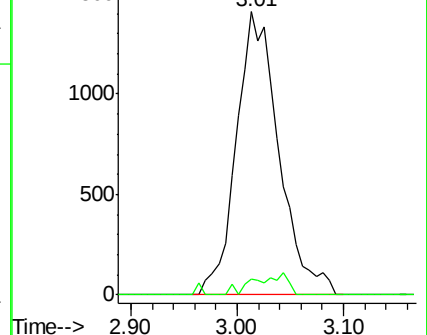
59 100

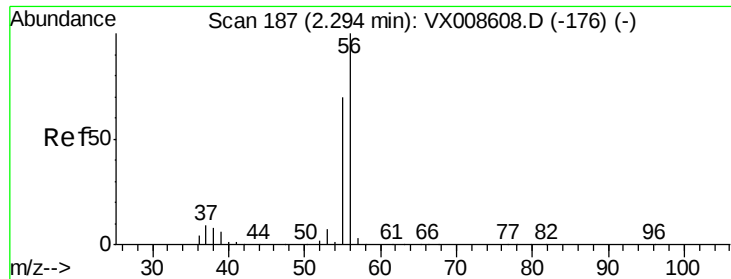
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

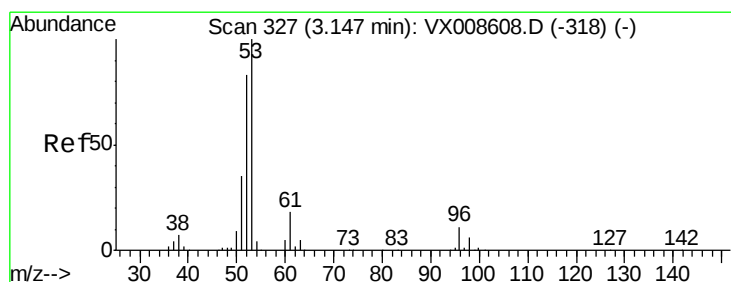
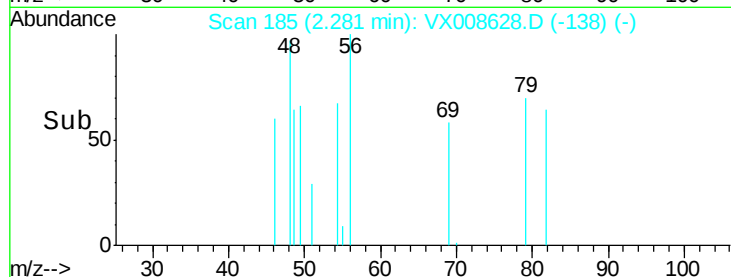
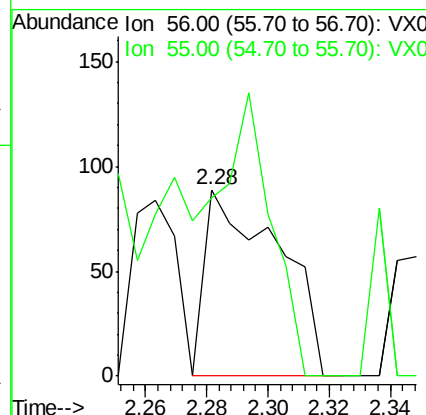
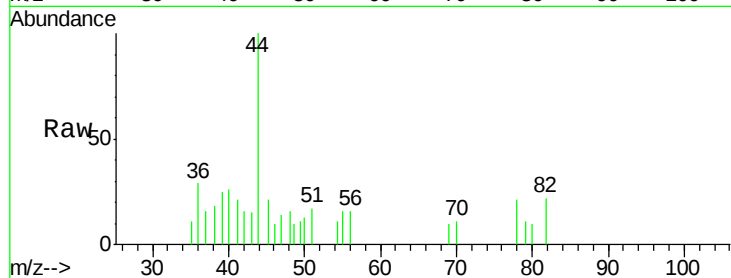




#13
Acrolein
Concen: 0.399 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

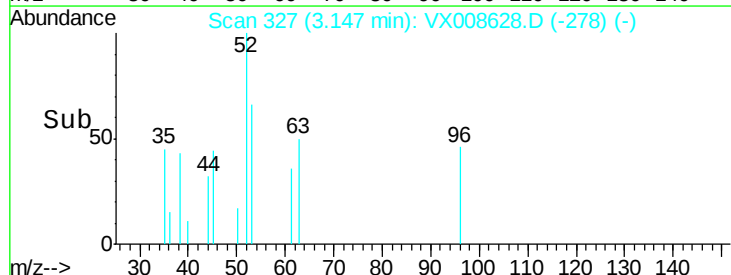
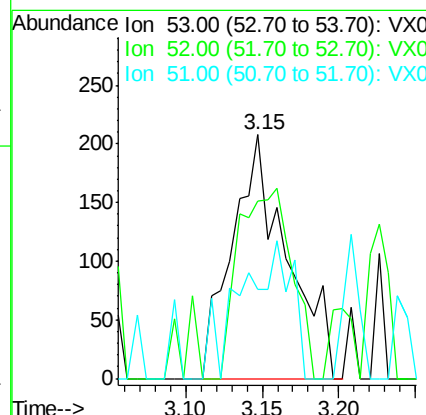
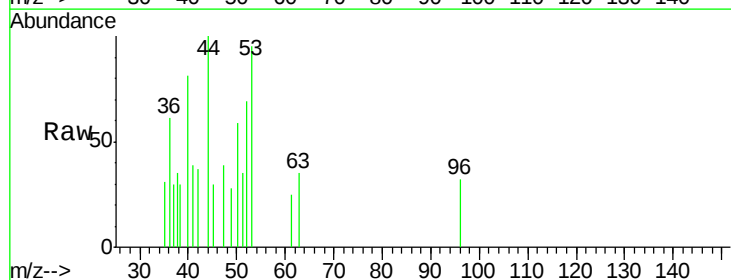
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

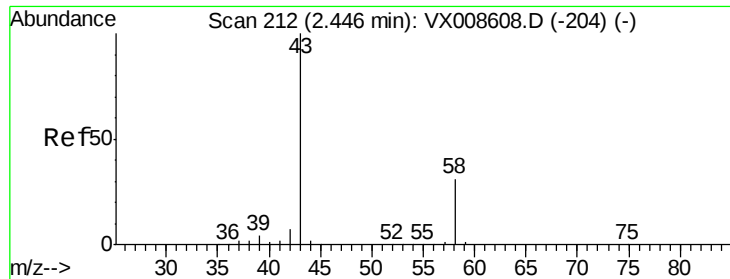
Tgt Ion: 56 Resp: 149
Ion Ratio Lower Upper
56 100
55 108.7 58.0 87.0#



#15
Acrylonitrile
Concen: 0.259 ug/l
RT: 3.15 min Scan# 327
Delta R.T. -0.00 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

Tgt Ion: 53 Resp: 518
Ion Ratio Lower Upper
53 100
52 75.5 66.5 99.7
51 52.9 28.6 42.8#





#16

Acetone

Concen: 3.877 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

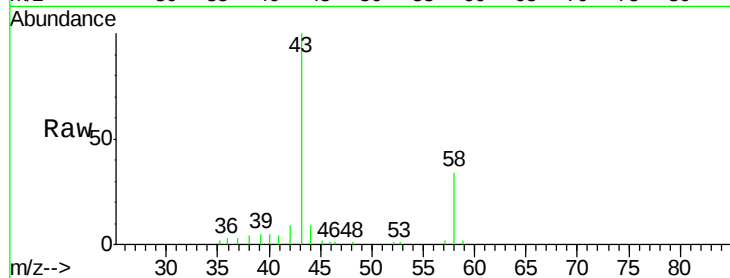
TRIP-BLANK

Tgt Ion: 43 Resp: 7190

Ion Ratio Lower Upper

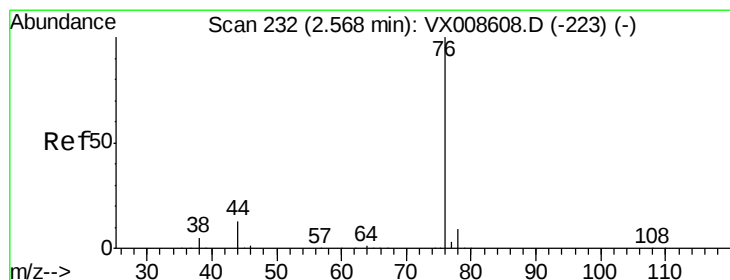
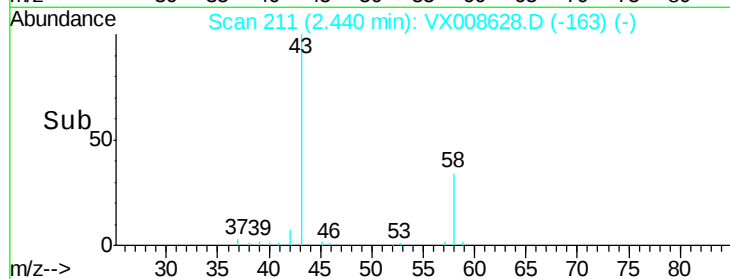
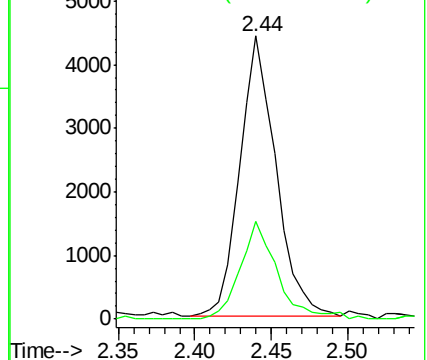
43 100

58 34.8 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008628.D

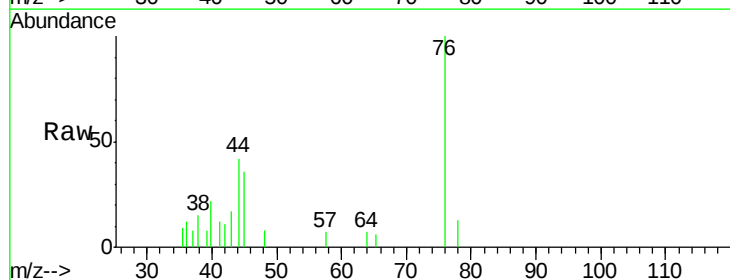
Acq: 04 Apr 2019 12:14

Tgt Ion: 76 Resp: 1481

Ion Ratio Lower Upper

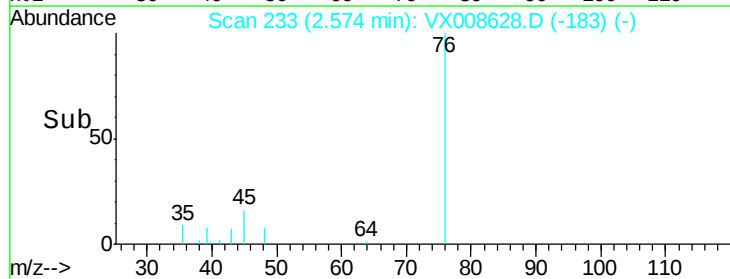
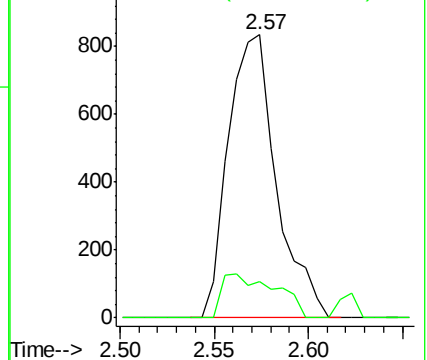
76 100

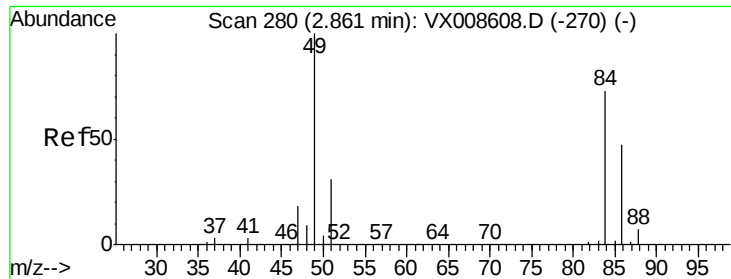
78 12.9 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

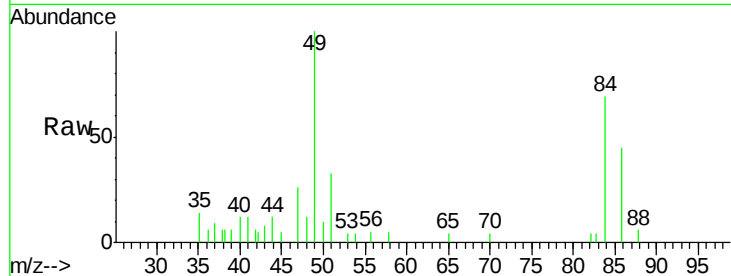




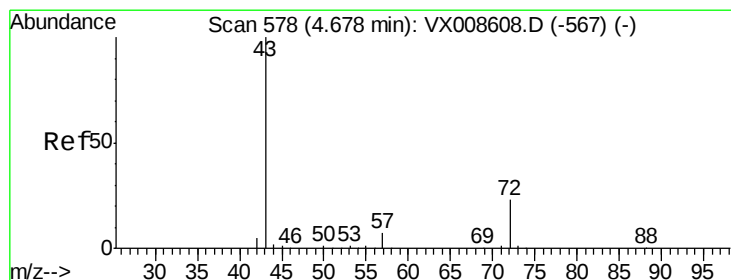
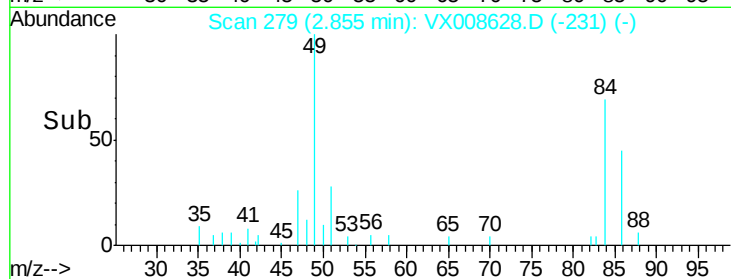
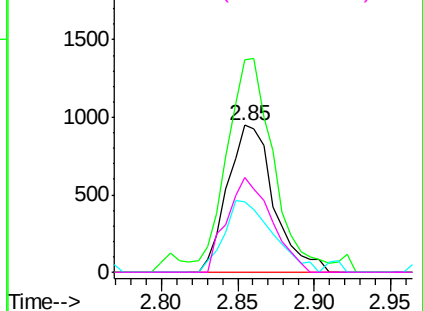
#20
Methylene Chloride
Concen: 0.643 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Tgt Ion:	84	Resp:	1997
Ion	Ratio	Lower	Upper
84	100		
49	137.4	109.7	164.5
51	47.6	33.6	50.4
86	64.6	51.4	77.2

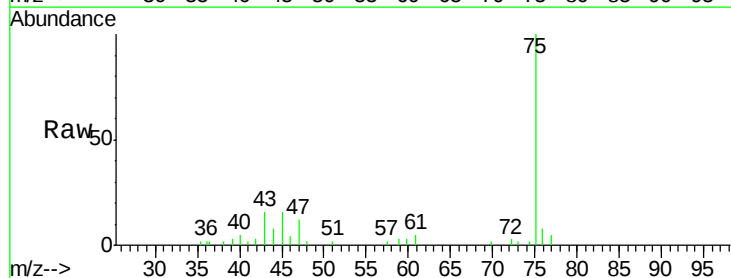


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

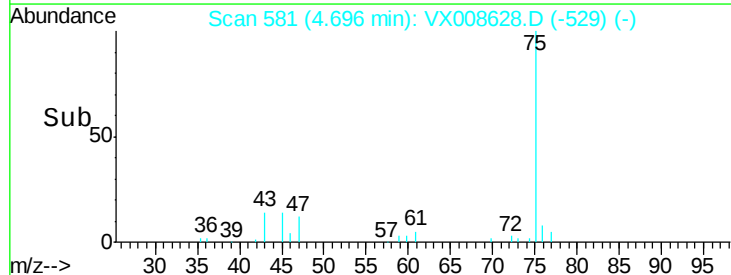
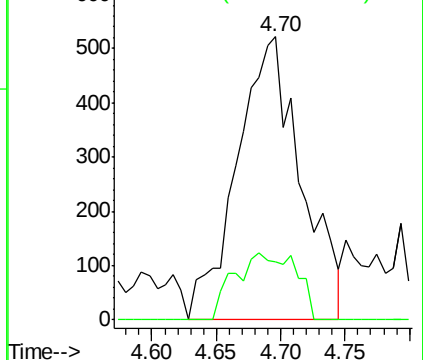


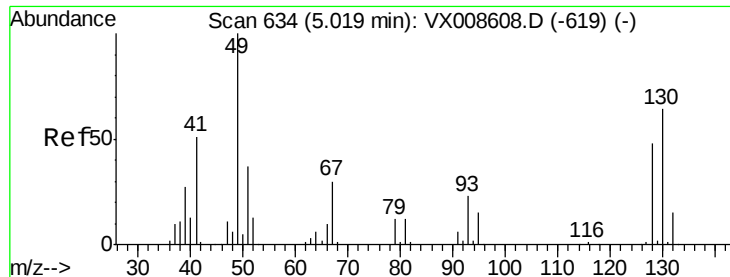
#25
2-Butanone
Concen: 0.616 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

Tgt Ion:	43	Resp:	1805
Ion	Ratio	Lower	Upper
43	100		
72	20.3	18.2	27.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

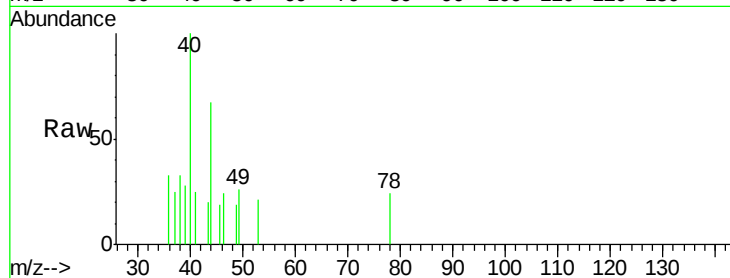
Tgt Ion: 49 Resp: 167

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

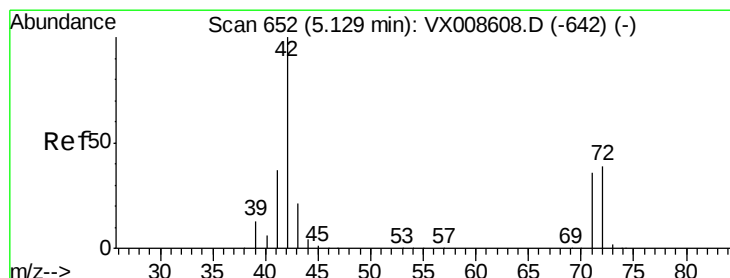
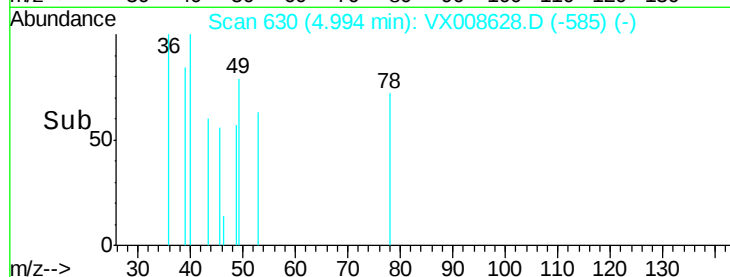
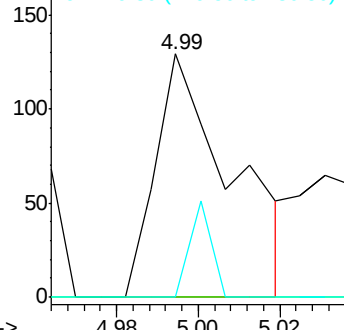
130 11.4 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): VX0

Ion 129.80 (129.50 to 130.50): VX0



#29

Tetrahydrofuran

Concen: 0.711 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

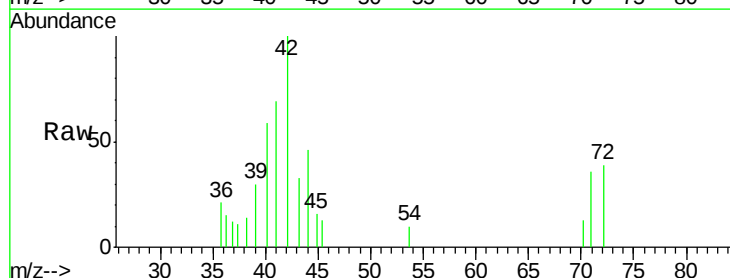
Tgt Ion: 42 Resp: 1383

Ion Ratio Lower Upper

42 100

72 23.7 30.5 45.7#

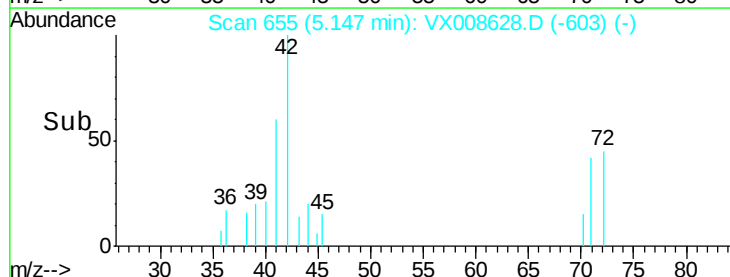
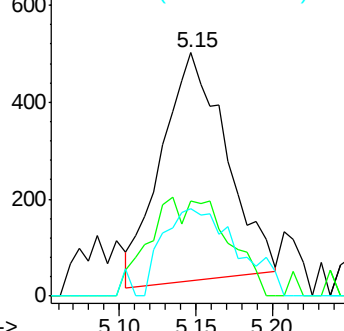
71 44.3 28.6 43.0#

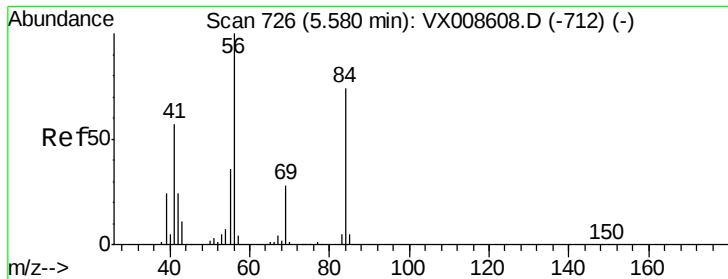


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

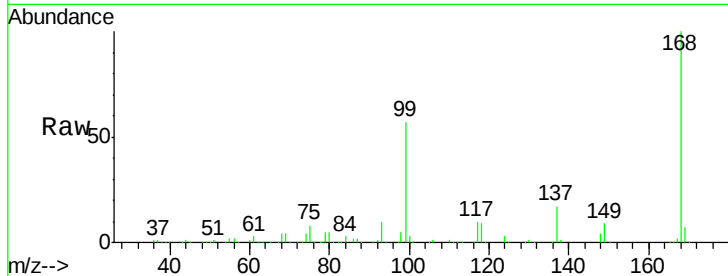




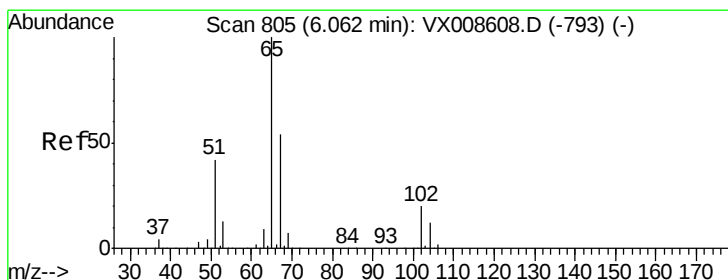
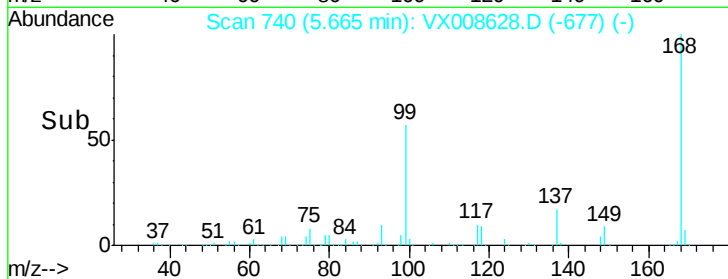
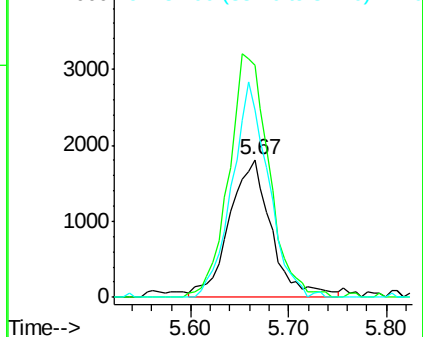
#31
Cyclohexane
Concen: 0.975 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Tgt Ion: 56 Resp: 5422
Ion Ratio Lower Upper
56 100
69 174.8 22.6 33.8#
84 141.4 59.3 88.9#

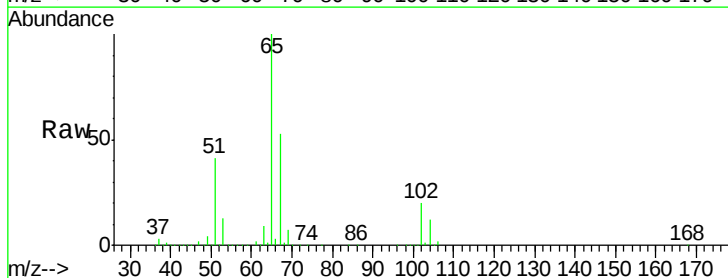


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

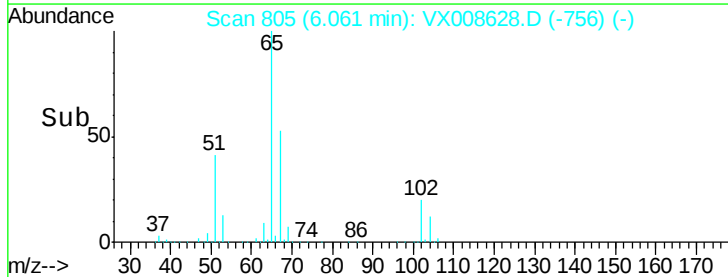
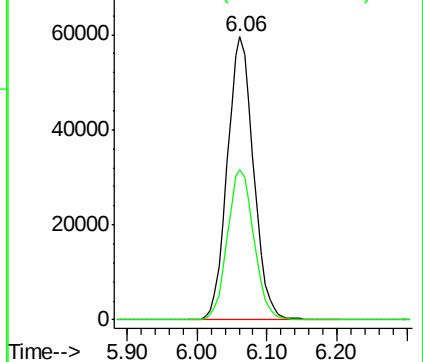


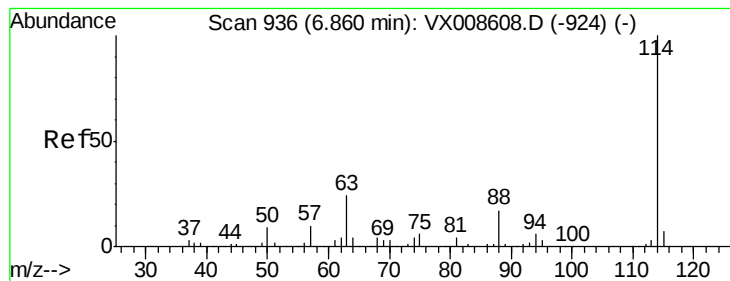
#33
1,2-Dichloroethane-d4
Concen: 48.233 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

Tgt Ion: 65 Resp: 155293
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

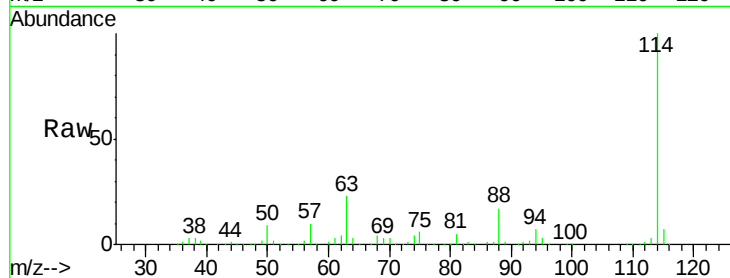
Tgt Ion:114 Resp: 368134

Ion Ratio Lower Upper

114 100

63 23.2 0.0 47.2

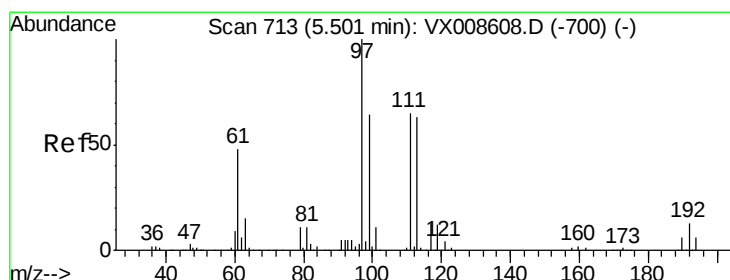
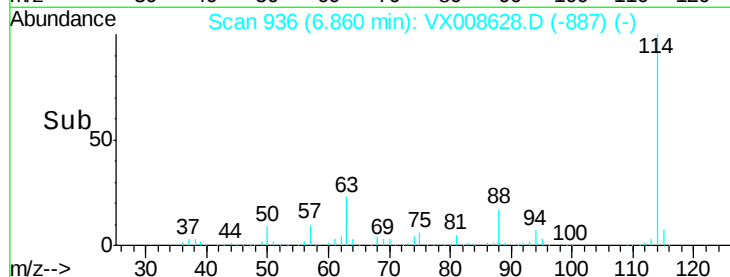
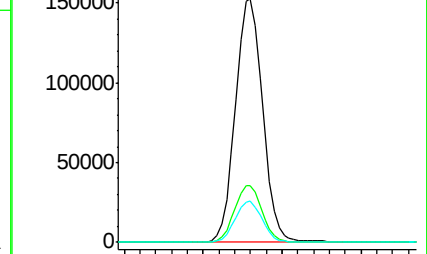
88 16.8 0.0 34.0



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: 48.173 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

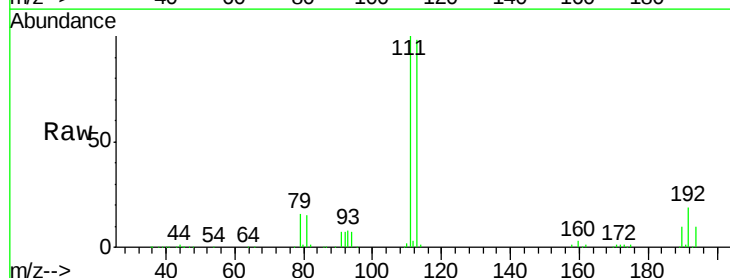
Tgt Ion:113 Resp: 113385

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.2

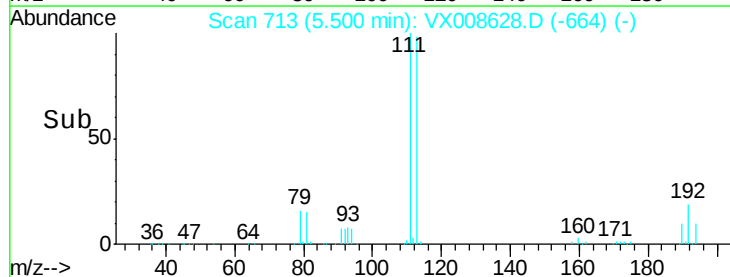
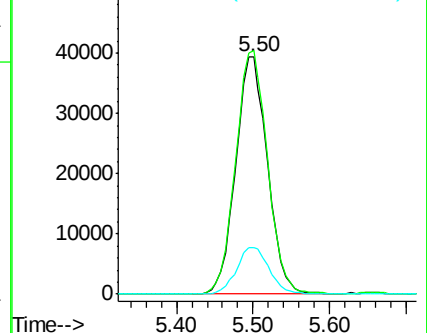
192 20.1 16.1 24.1

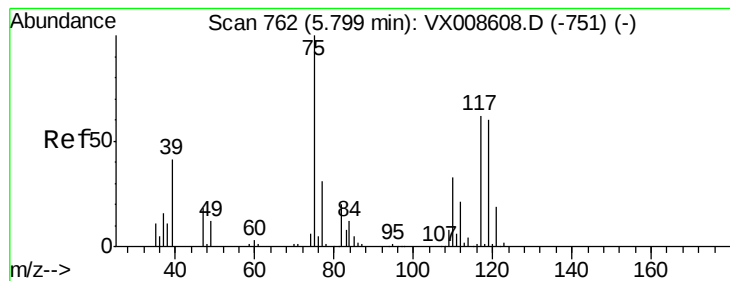


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.400 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

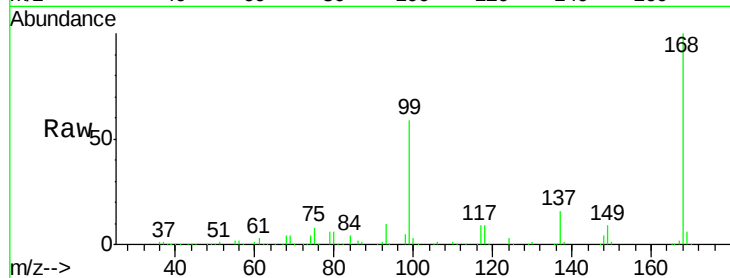
Tgt Ion: 75 Resp: 17705

Ion Ratio Lower Upper

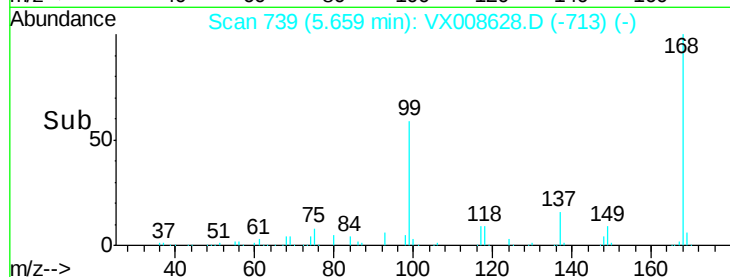
75 100

110 8.4 16.4 49.2#

77 0.0 24.7 37.1#



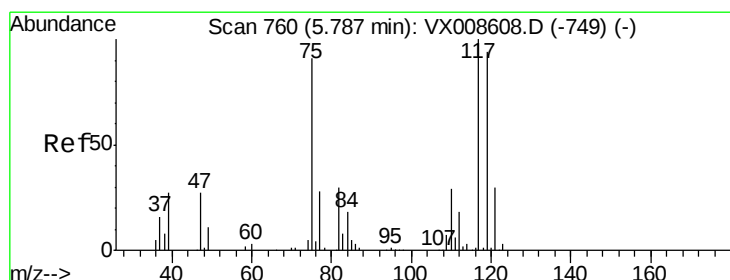
Abundance Ion 74.90 (74.60 to 75.60): VX008628.D (-713) (-)



Ion 109.90 (109.60 to 110.60): VX008628.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX008628.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.430 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

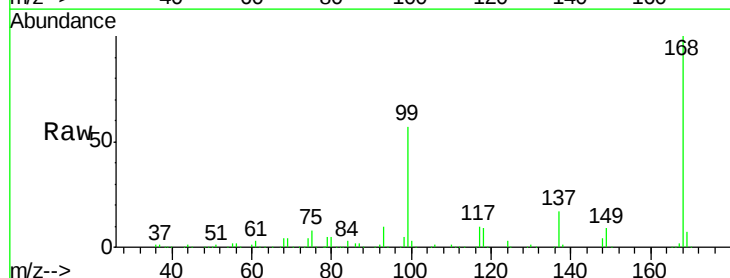
Tgt Ion: 117 Resp: 21414

Ion Ratio Lower Upper

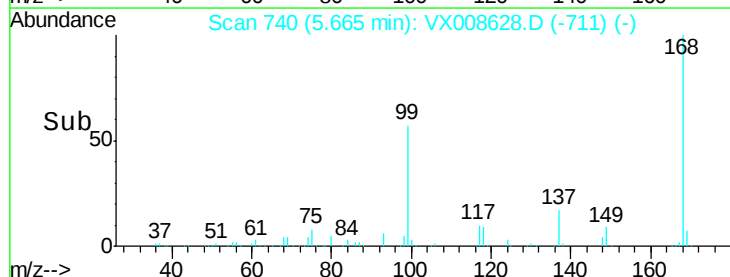
117 100

119 4.7 75.0 112.6#

121 0.0 24.3 36.5#



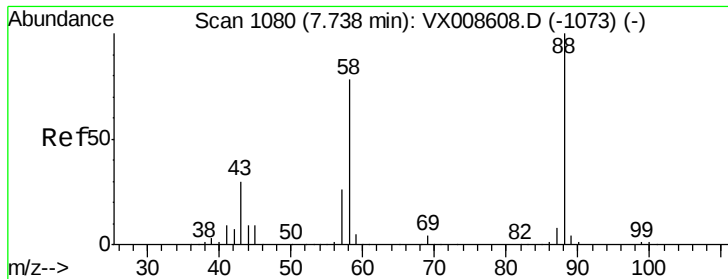
Abundance Ion 116.80 (116.50 to 117.50): VX008628.D (-711) (-)



Ion 118.80 (118.50 to 119.50): VX008628.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX008628.D (-711) (-)

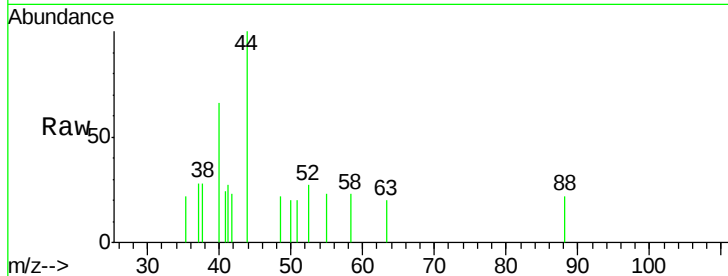
Time-->



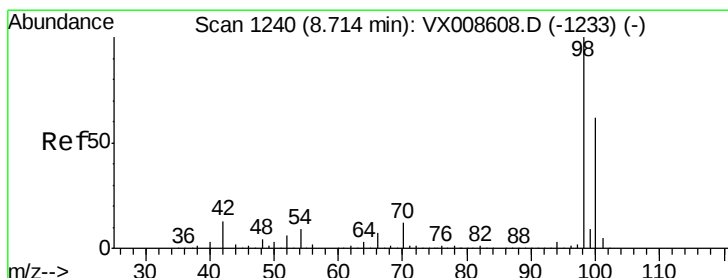
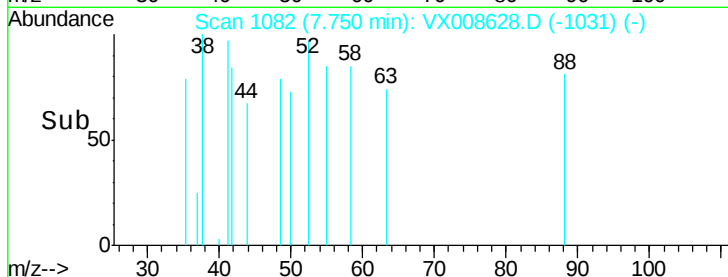
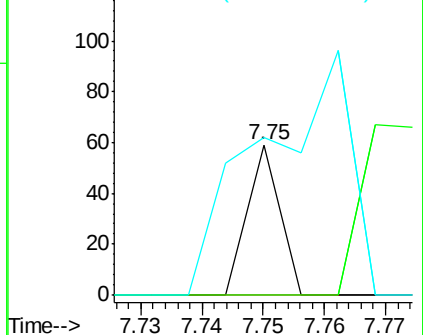
#49
 1,4-Dioxane
 Concen: 0.276 ug/l
 RT: 7.75 min Scan# 1082
 Delta R.T. 0.01 min
 Lab File: VX008628.D
 Acq: 04 Apr 2019 12:14

Instrument :
 MSVOA_X
 ClientSampled :
 TRIP-BLANK

Tgt Ion: 88 Resp: 22
 Ion Ratio Lower Upper
 88 100
 43 222.7 28.6 43.0#
 58 440.9 62.2 93.2#

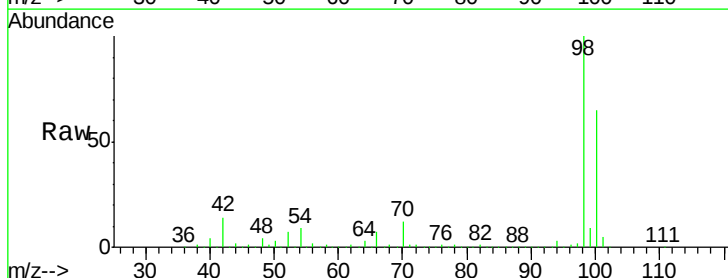


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

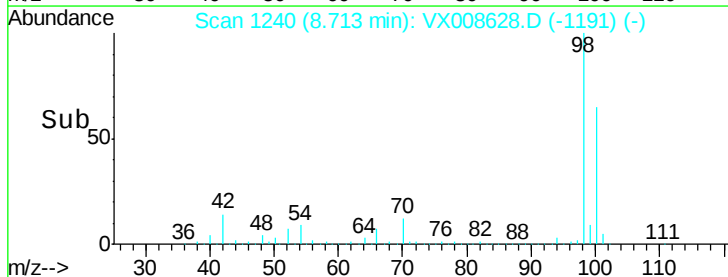
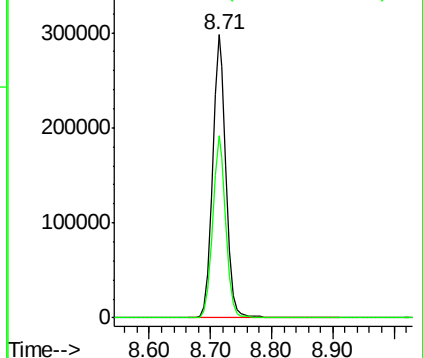


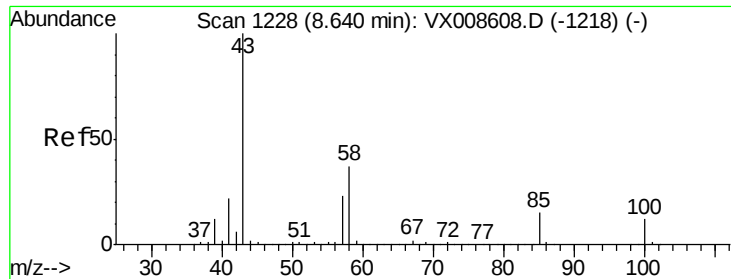
#50
 Toluene-d8
 Concen: 49.620 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX008628.D
 Acq: 04 Apr 2019 12:14

Tgt Ion: 98 Resp: 465031
 Ion Ratio Lower Upper
 98 100
 100 63.5 51.4 77.0



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





#51

4-Methyl-2-Pentanone

Concen: 0.210 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

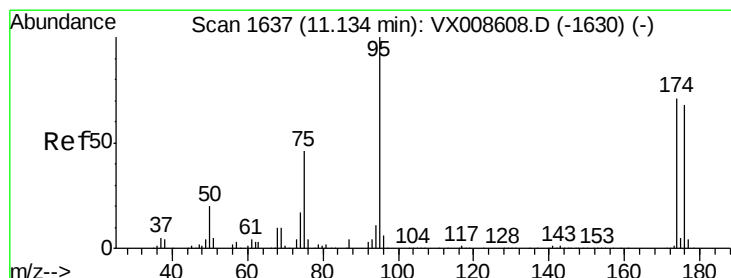
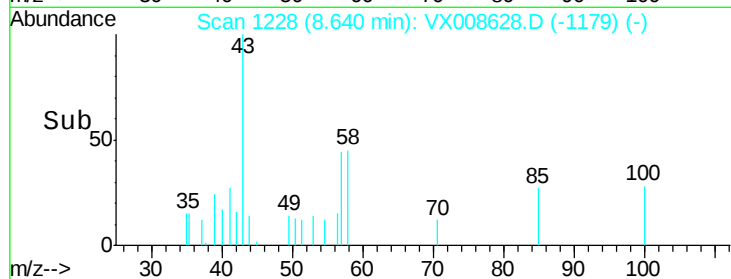
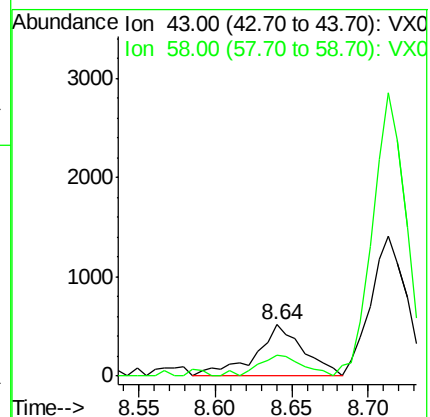
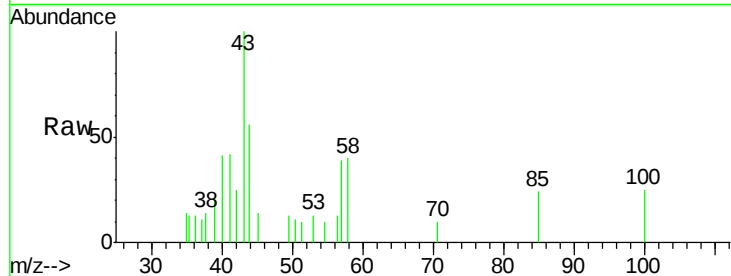
TRIP-BLANK

Tgt Ion: 43 Resp: 1138

Ion Ratio Lower Upper

43 100

58 37.3 29.5 44.3



#62

4-Bromofluorobenzene

Concen: 47.539 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

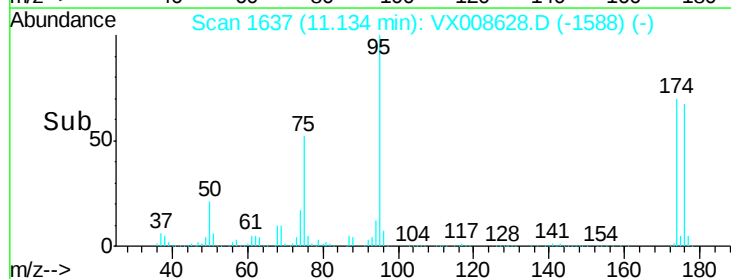
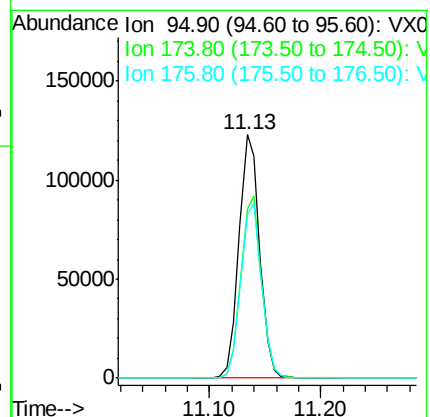
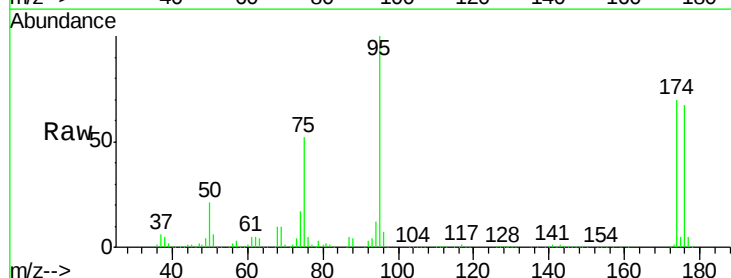
Tgt Ion: 95 Resp: 157991

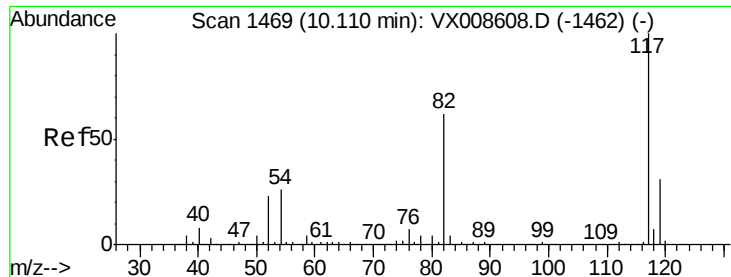
Ion Ratio Lower Upper

95 100

174 74.6 0.0 151.8

176 72.8 0.0 145.8

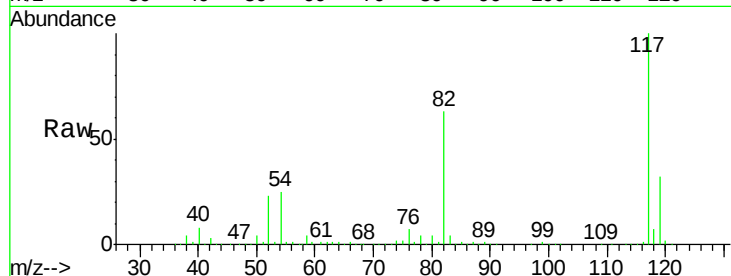




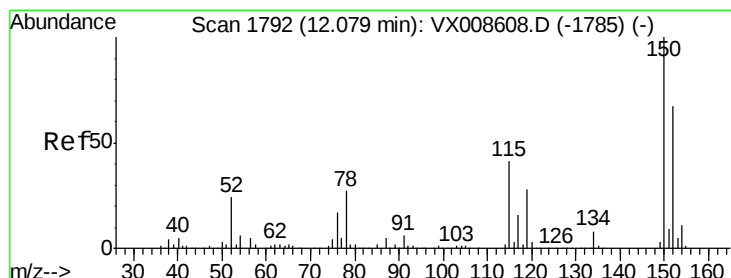
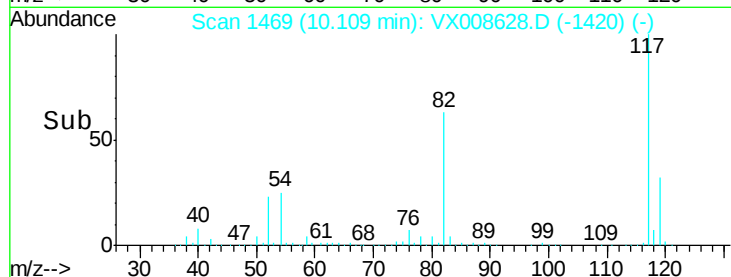
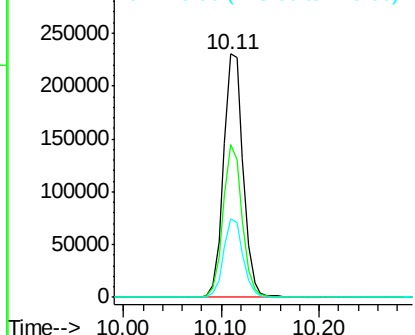
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Tgt Ion:117 Resp: 320631
Ion Ratio Lower Upper
117 100
82 62.7 49.6 74.4
119 32.1 25.0 37.4

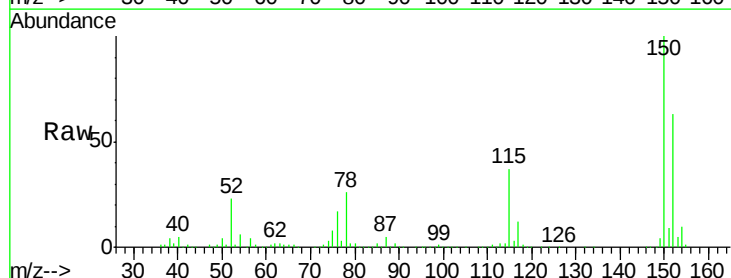


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

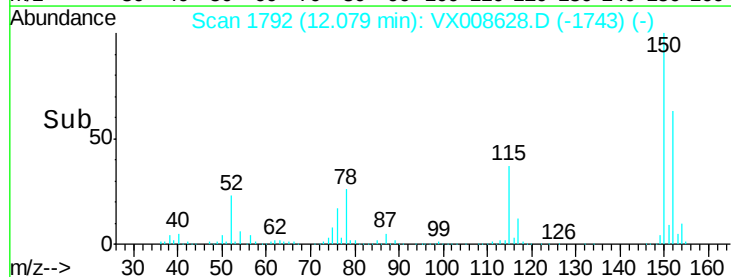
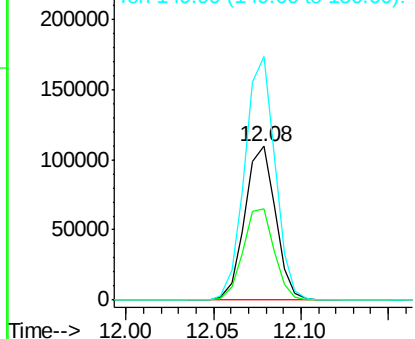


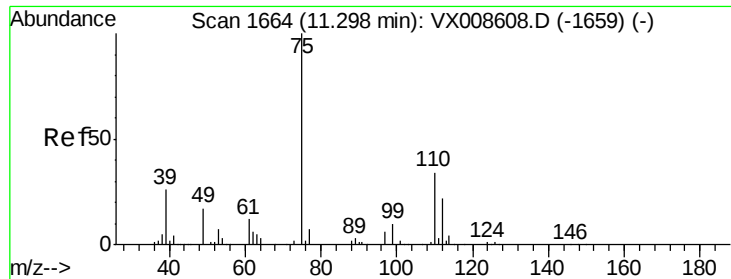
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008628.D
Acq: 04 Apr 2019 12:14

Tgt Ion:152 Resp: 133823
Ion Ratio Lower Upper
152 100
115 60.7 43.5 130.5
150 157.5 0.0 348.8



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





#76

1,2,3-Trichloropropane

Concen: 21.761 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

Instrument :

MSVOA_X

ClientSampleId :

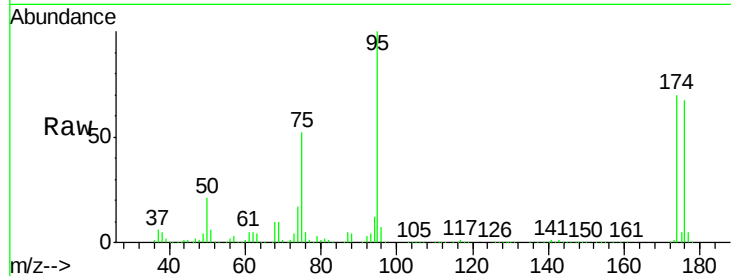
TRIP-BLANK

Tgt Ion: 75 Resp: 79997

Ion Ratio Lower Upper

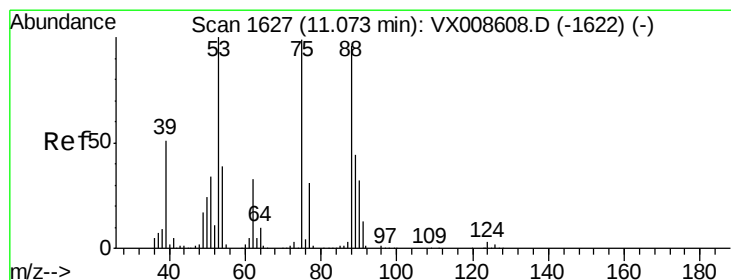
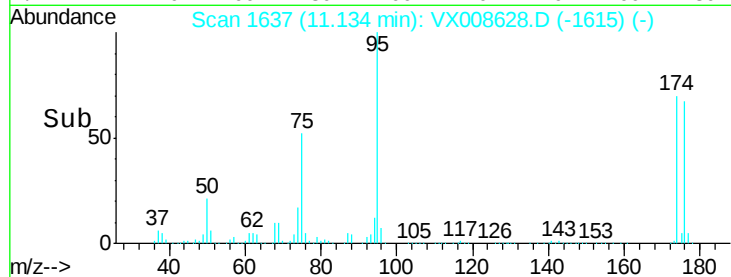
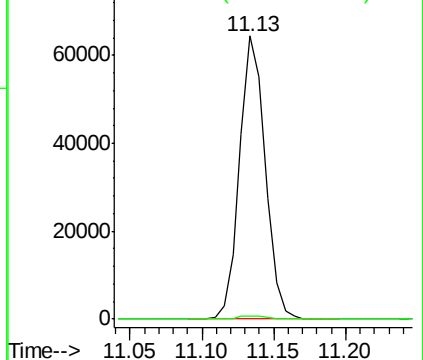
75 100

77 1.4 22.3 66.8#



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: 59.984 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008628.D

Acq: 04 Apr 2019 12:14

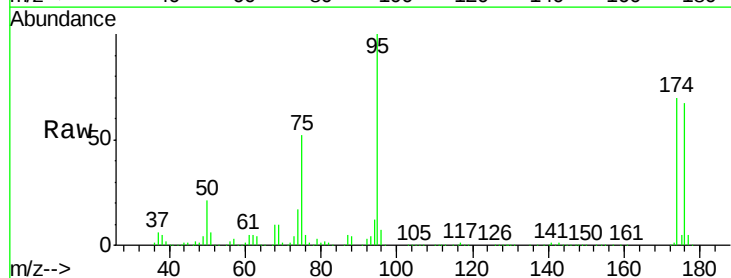
Tgt Ion: 75 Resp: 79997

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.1 35.6 53.4#



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

