

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005307.D
 Acq On : 12 Oct 2018 22:18
 Operator : JC/MD
 Sample : VX1012WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 13 02:39:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	296677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	389081	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.12	117	339065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	163641	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	168760	51.25	ug/l	-0.01
Spiked Amount			Recovery	=	102.50%	
35) Dibromofluoromethane	5.51	113	142254	55.20	ug/l	0.00
Spiked Amount			Recovery	=	110.40%	
50) Toluene-d8	8.72	98	451855	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.14	95	148117	44.57	ug/l	0.00
Spiked Amount			Recovery	=	89.14%	

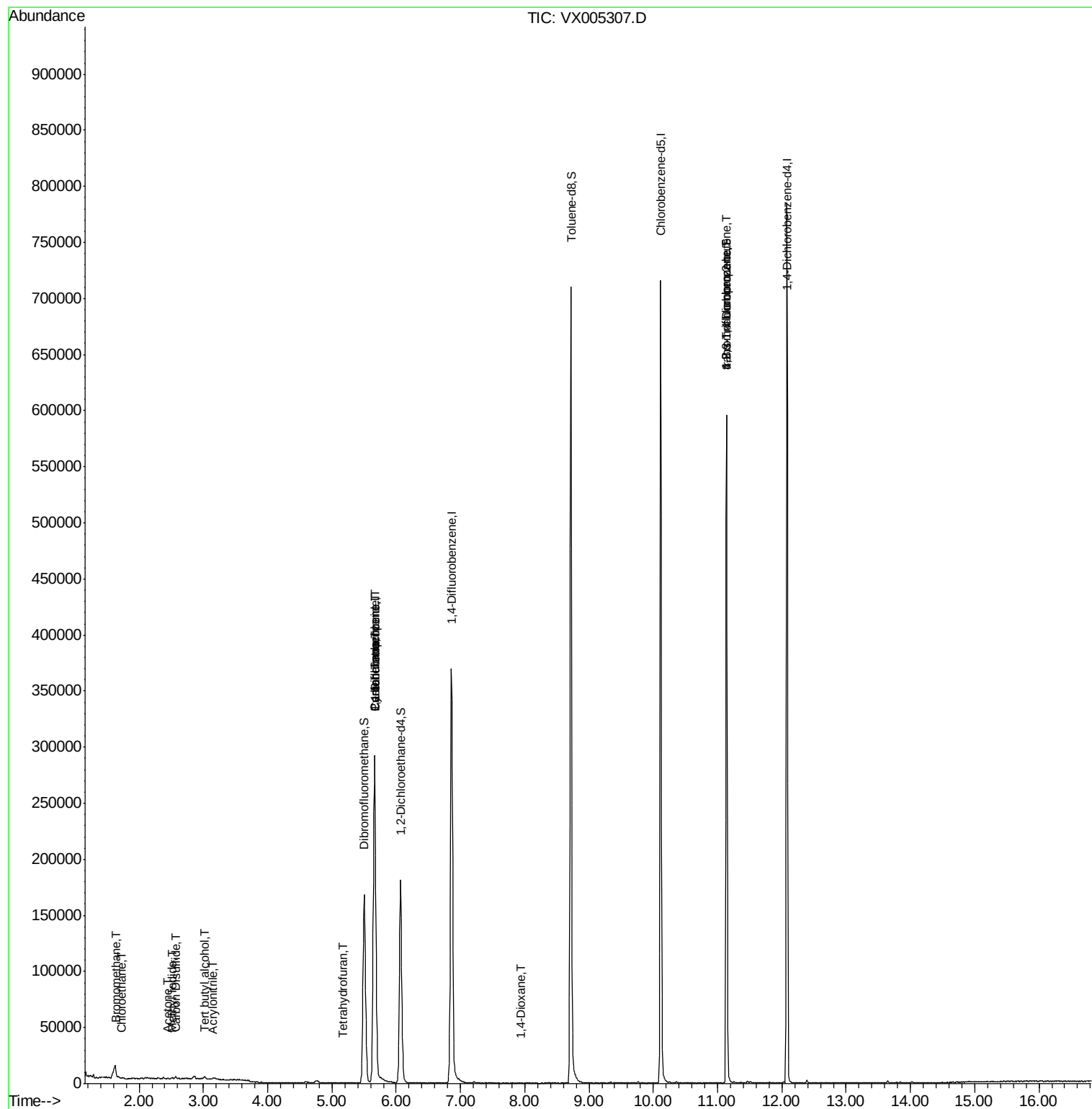
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	979	1.087	ug/l	87
6) Chloroethane	1.71	64	63	0.363	ug/l #	54
10) Methyl Iodide	2.51	142	882	2.780	ug/l #	87
11) Tert butyl alcohol	3.02	59	1594	1.716	ug/l #	72
13) Acrolein	2.30	56	162	Below Cal	#	43
15) Acrylonitrile	3.15	53	566	0.269	ug/l #	85
16) Acetone	2.45	43	773	0.406	ug/l #	84
17) Carbon Disulfide	2.57	76	1747	0.222	ug/l #	86
20) Methylene Chloride	2.85	84	1074	Below Cal	#	85
29) Tetrahydrofuran	5.16	42	435	0.245	ug/l #	54
31) Cyclohexane	5.66	56	5184	1.145	ug/l #	21
36) 1,1-Dichloropropene	5.66	75	19600	5.201	ug/l #	49
38) Carbon Tetrachloride	5.66	117	25260	6.671	ug/l #	15
44) Trichloroethene	7.22	130	389	Below Cal		97
49) 1,4-Dioxane	7.94	88	22	0.285	ug/l #	8
76) 1,2,3-Trichloropropane	11.14	75	72807	22.937	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72807	69.695	ug/l #	10

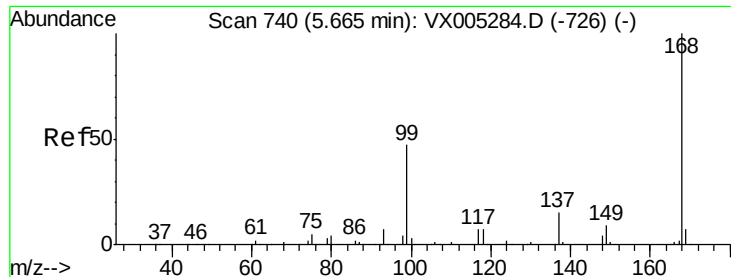
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

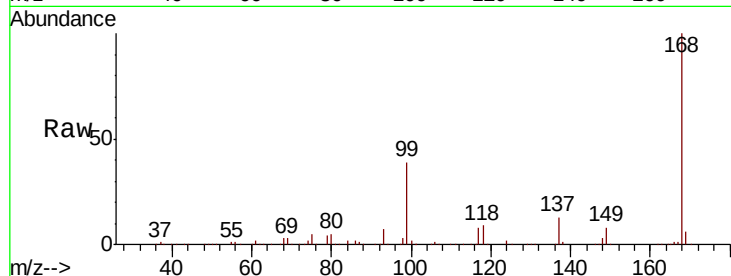
ClientSampleId :

Tot Ion:168 Resp: 296677

Ion Ratio Lower Upper

168 100

99 38.9 39.9 59.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

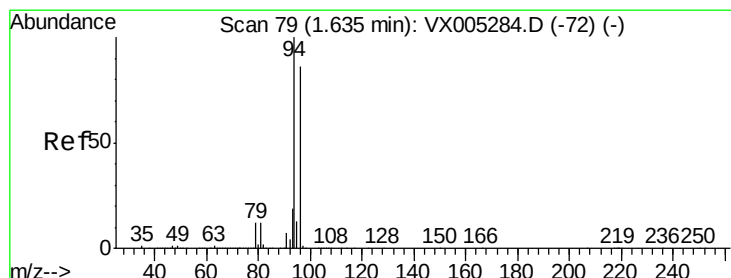
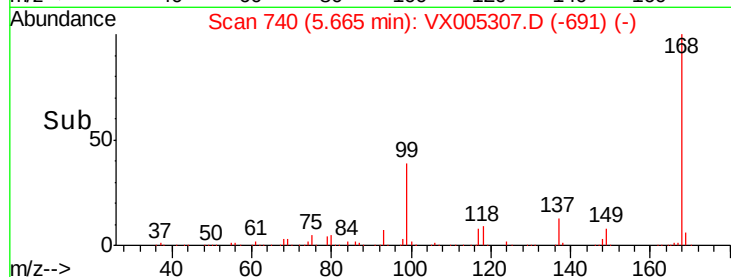
5.66

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 1.087 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005307.D

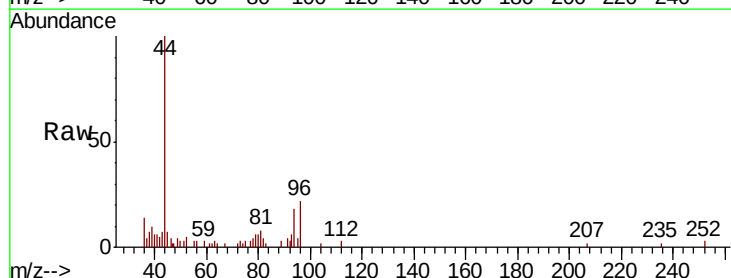
Acq: 12 Oct 2018 22:18

Tgt Ion: 94 Resp: 979

Ion Ratio Lower Upper

94 100

96 106.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

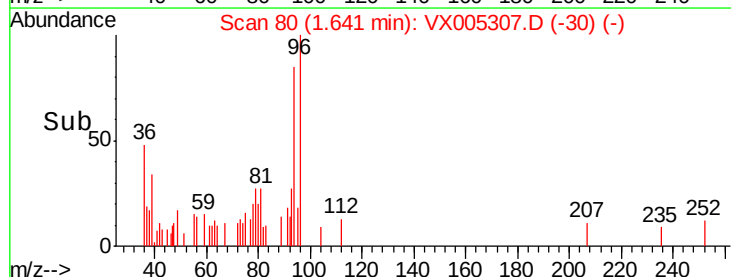
600

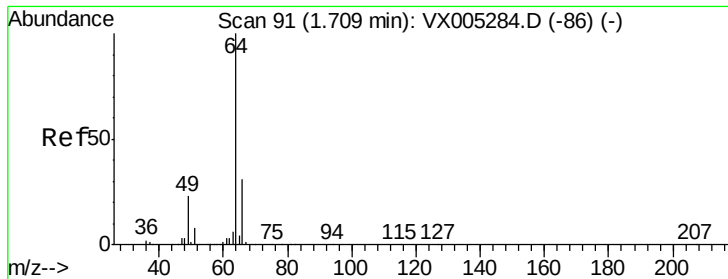
400

200

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.363 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.01 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

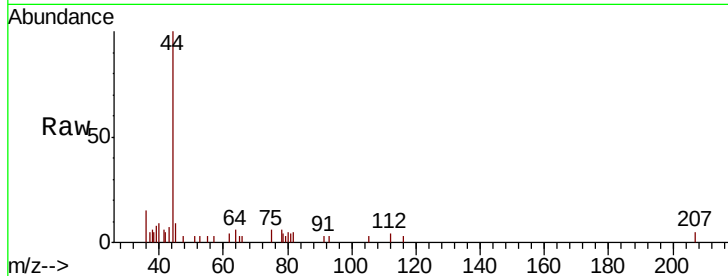
ClientSampled :

Tot Ion: 64 Resp: 63

Ion Ratio Lower Upper

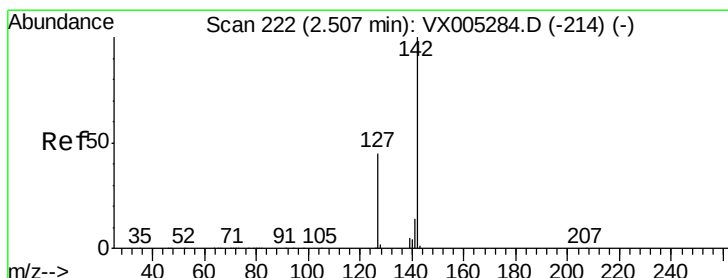
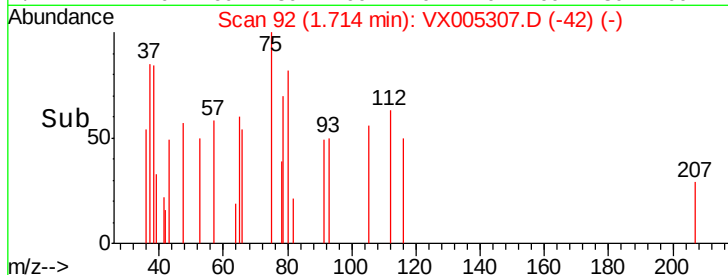
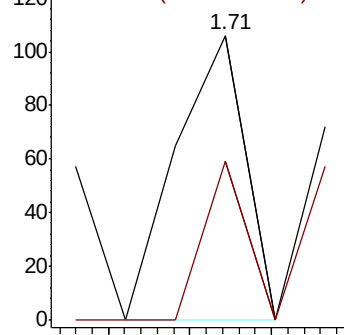
64 100

66 55.7 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.780 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

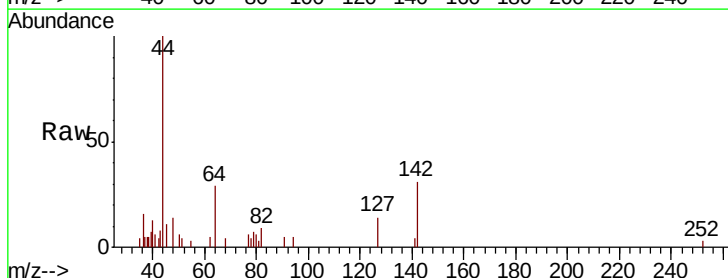
Tgt Ion: 142 Resp: 882

Ion Ratio Lower Upper

142 100

127 47.8 33.8 50.6

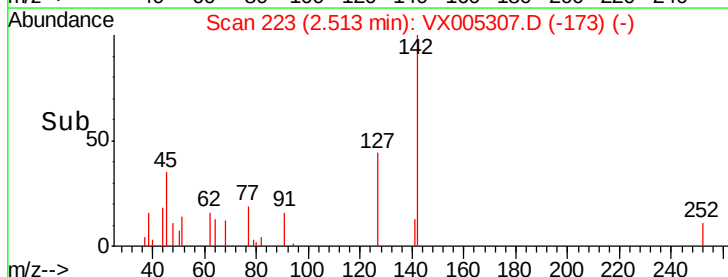
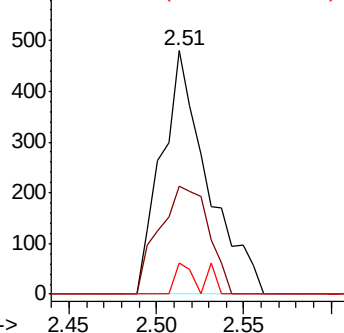
141 4.6 11.4 17.0#

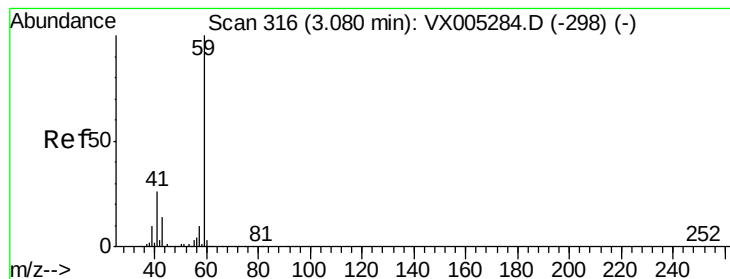


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 1.716 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

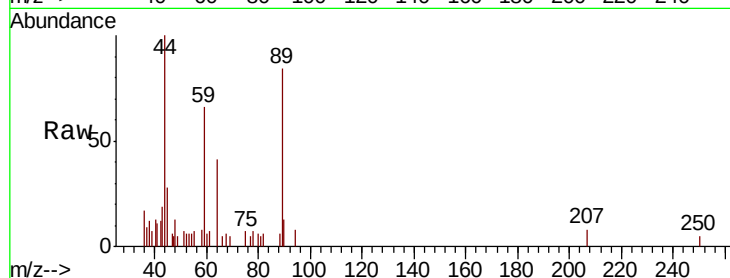
ClientSampled :

Tot Ion: 59 Resp: 1594

Ion Ratio Lower Upper

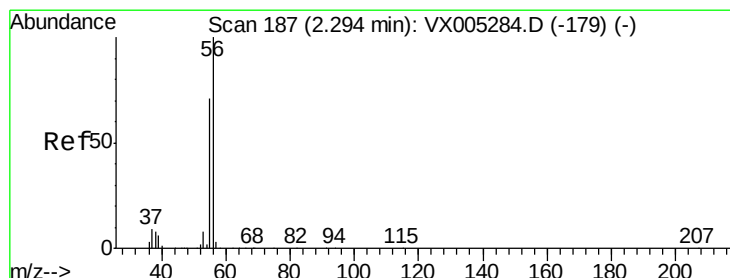
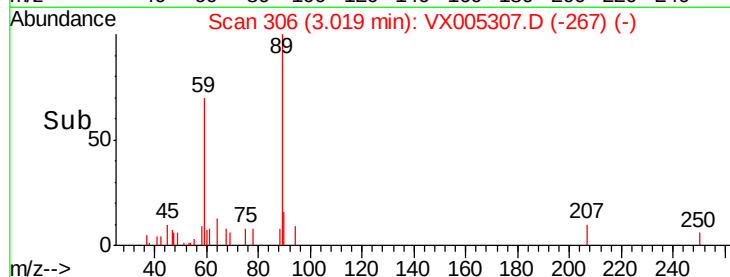
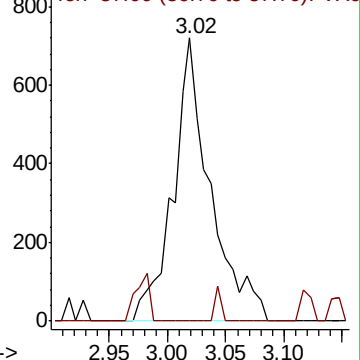
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX005307.D

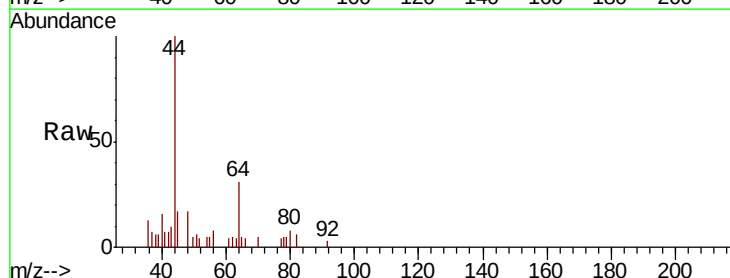
Acq: 12 Oct 2018 22:18

Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

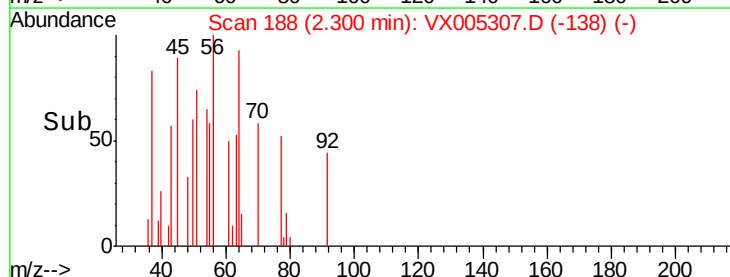
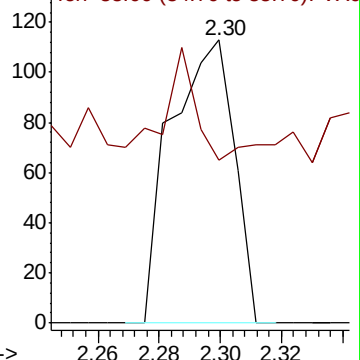
56 100

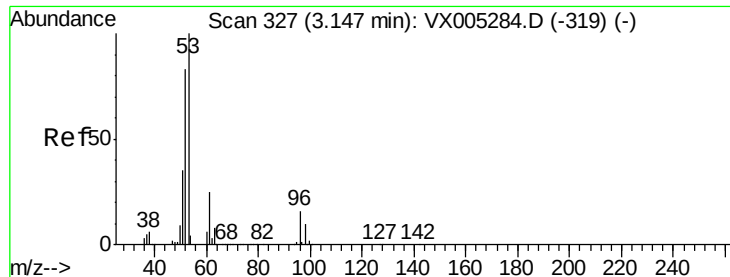
55 22.2 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.269 ug/l

RT: 3.15 min Scan# 327

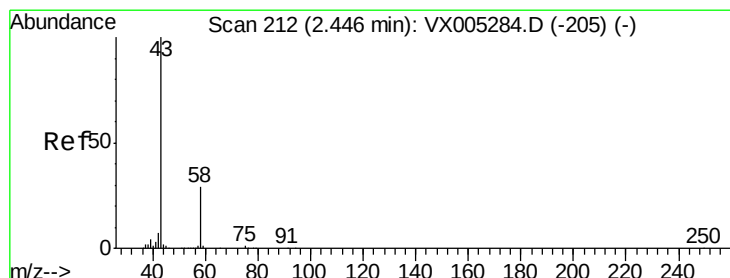
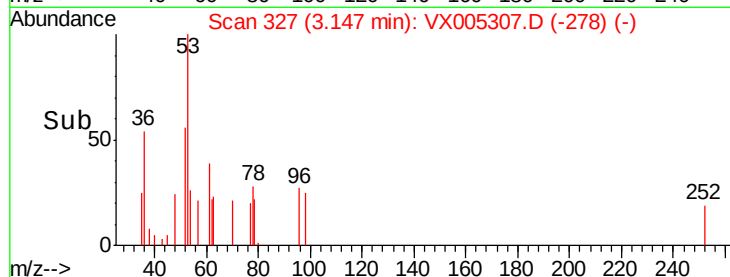
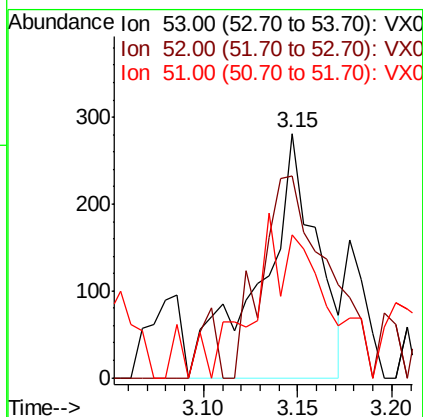
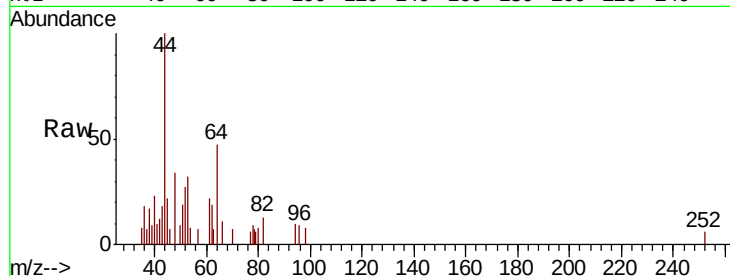
Delta R.T. -0.00 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	566
Ion	Ratio	Lower	Upper
53	100		
52	98.9	65.2	97.8#
51	38.2	28.2	42.2



#16

Acetone

Concen: 0.406 ug/l

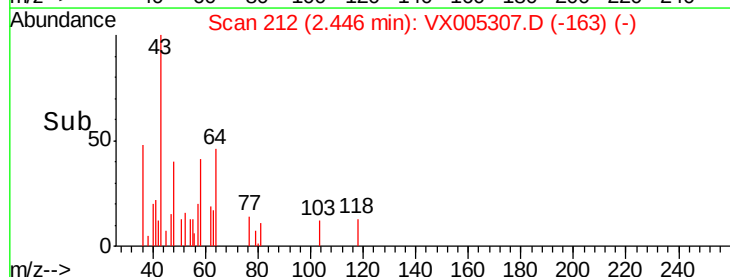
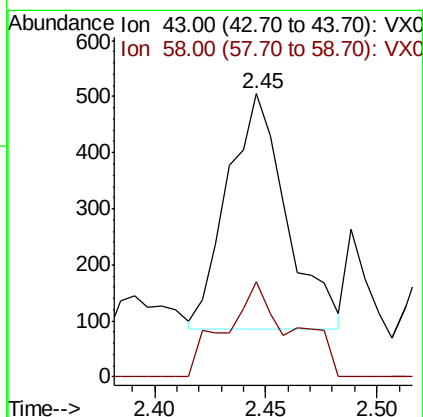
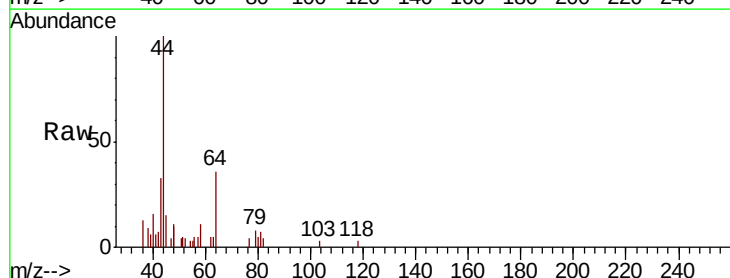
RT: 2.45 min Scan# 212

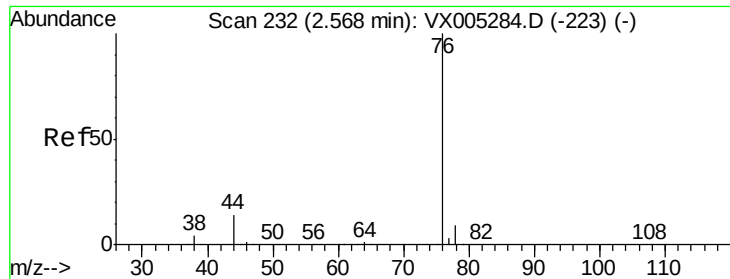
Delta R.T. -0.00 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Tgt Ion:	43	Resp:	773
Ion	Ratio	Lower	Upper
43	100		
58	42.0	26.2	39.4#





#17

Carbon Disulfide

Concen: 0.222 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

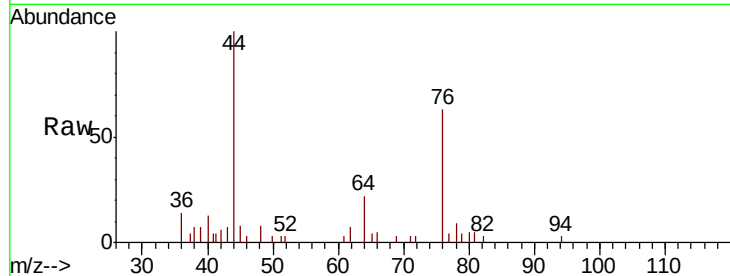
ClientSampled :

Tot Ion: 76 Resp: 1747

Ion Ratio Lower Upper

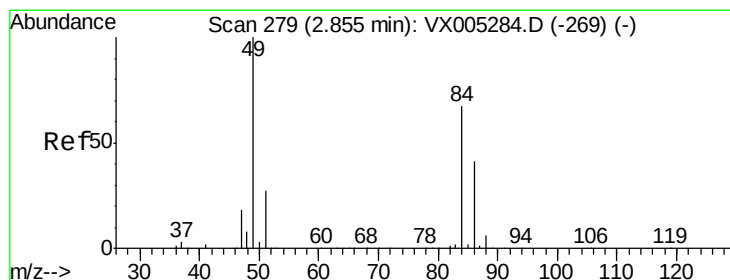
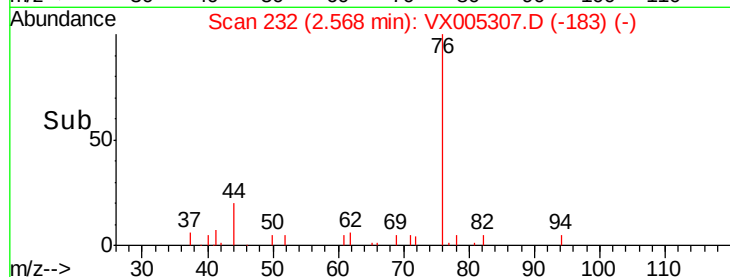
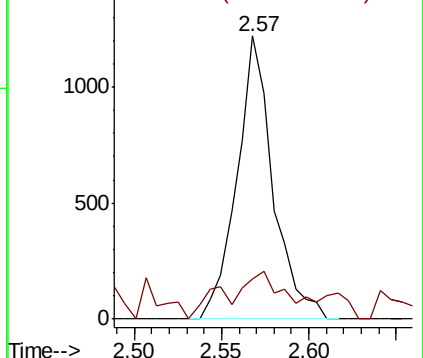
76 100

78 13.9 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: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Tgt Ion: 84 Resp: 1074

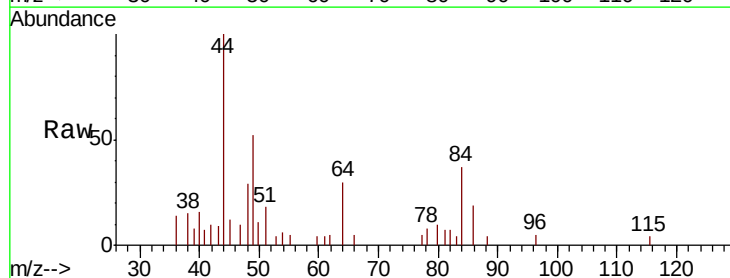
Ion Ratio Lower Upper

84 100

49 141.3 101.2 151.8

51 49.1 29.5 44.3#

86 52.1 52.3 78.5#

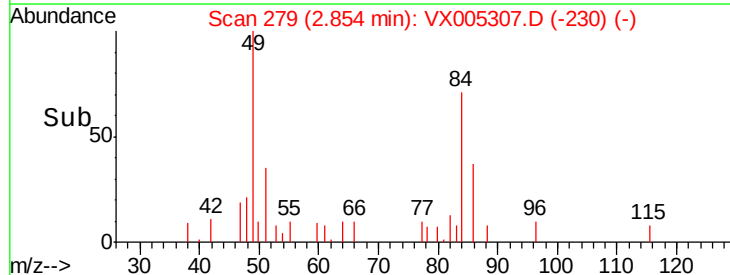
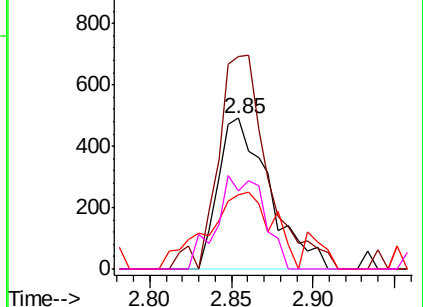


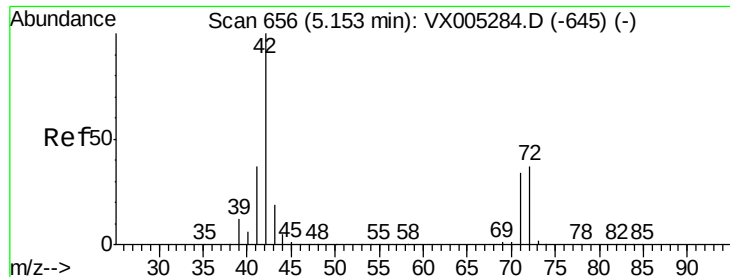
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#29

Tetrahydrofuran

Concen: 0.245 ug/l

RT: 5.16 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

ClientSampled :

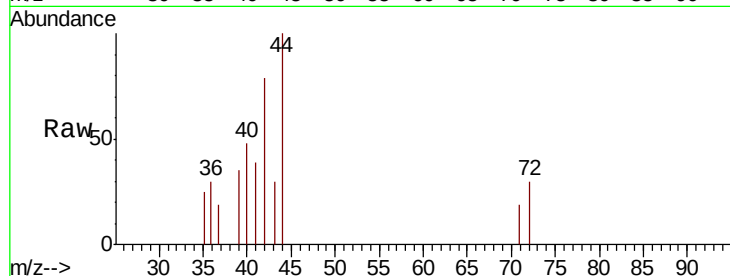
Tot Ion: 42 Resp: 435

Ion Ratio Lower Upper

42 100

72 24.4 37.4 56.0#

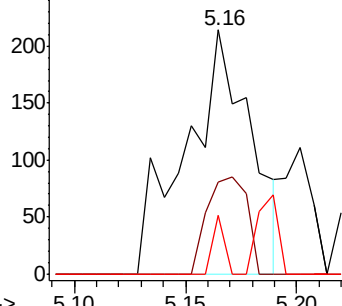
71 4.4 34.5 51.7#



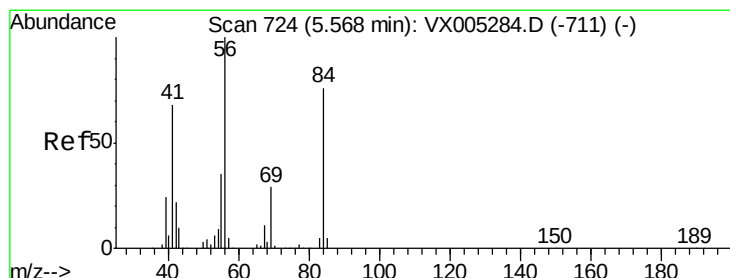
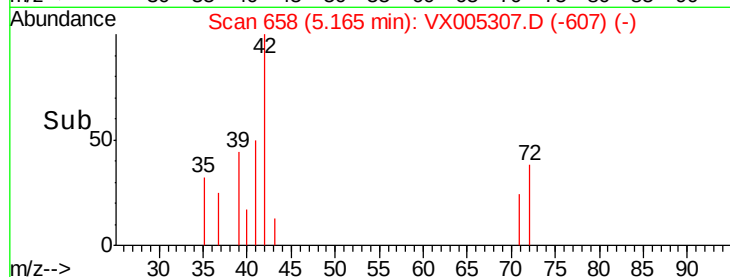
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 1.145 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

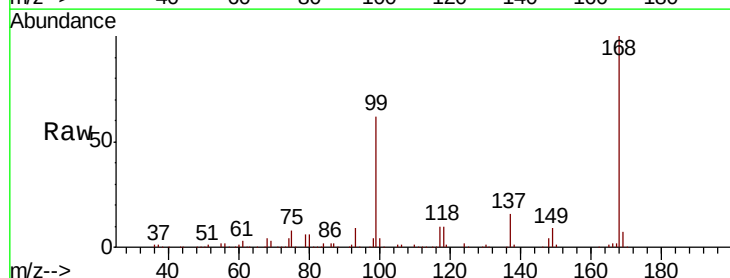
Tgt Ion: 56 Resp: 5184

Ion Ratio Lower Upper

56 100

69 162.9 25.4 38.2#

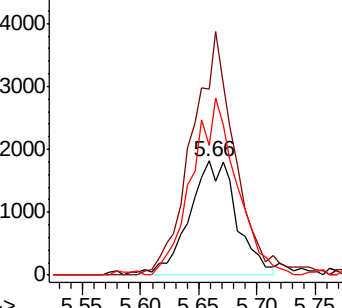
84 110.6 71.4 107.2#



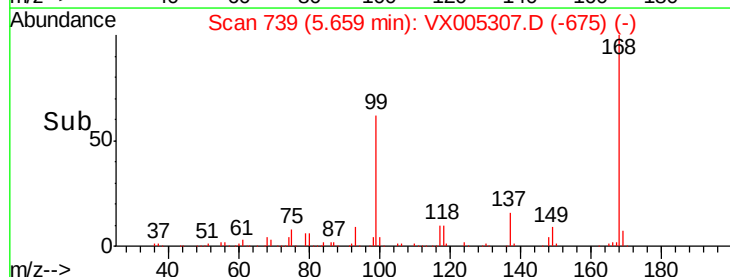
Abundance Ion 56.00 (55.70 to 56.70): VX0

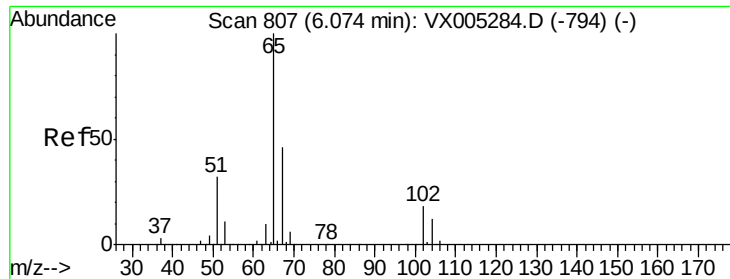
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->

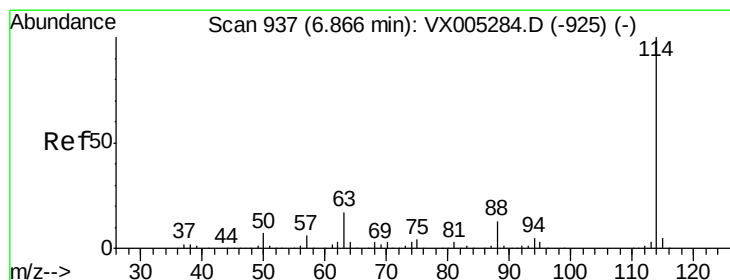
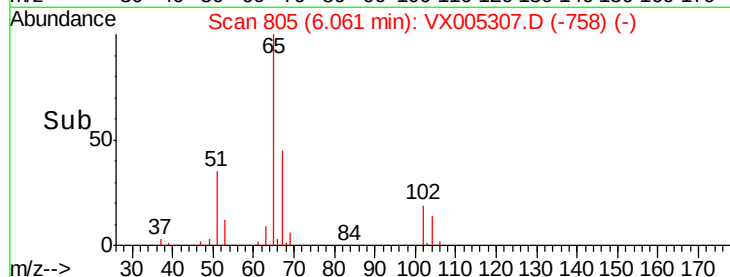
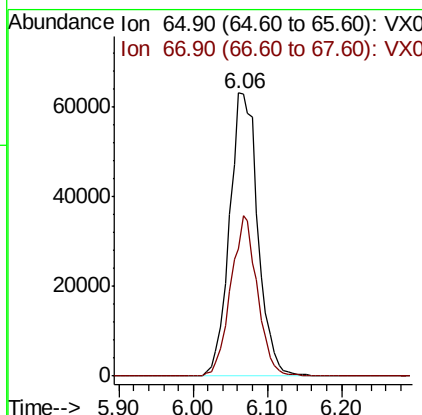
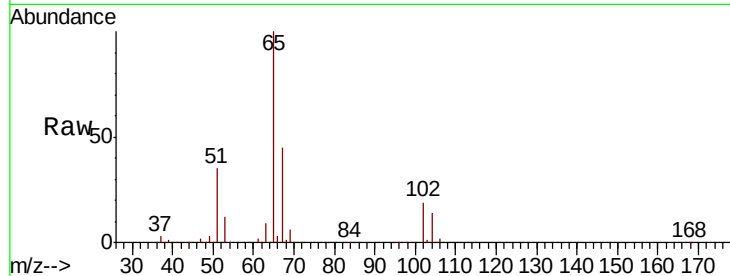




#33
 1,2-Dichloroethane-d4
 Concen: 51.253 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX005307.D
 Acq: 12 Oct 2018 22:18

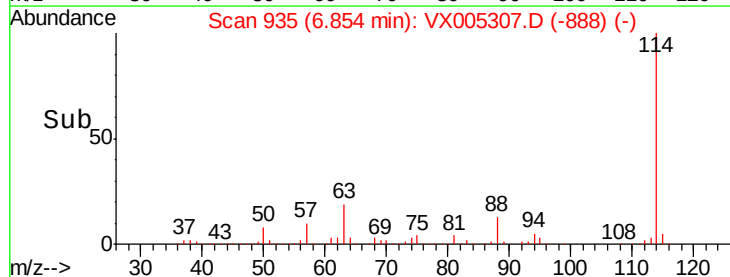
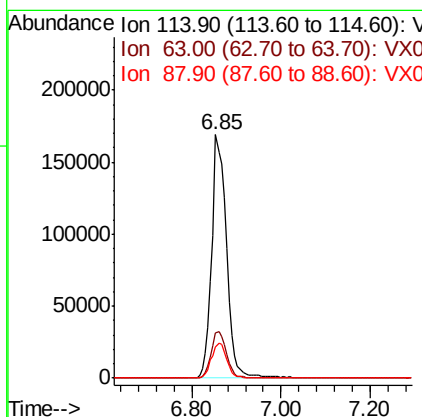
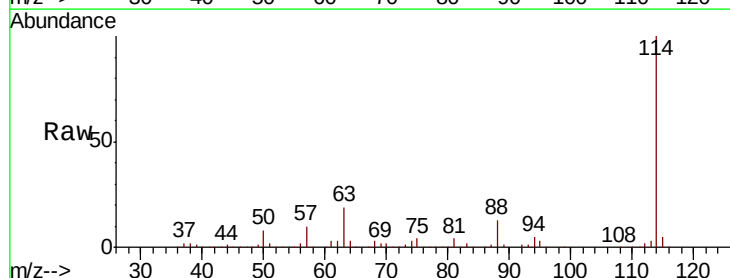
Instrument :
 MSVOA_X
 ClientSampleId :

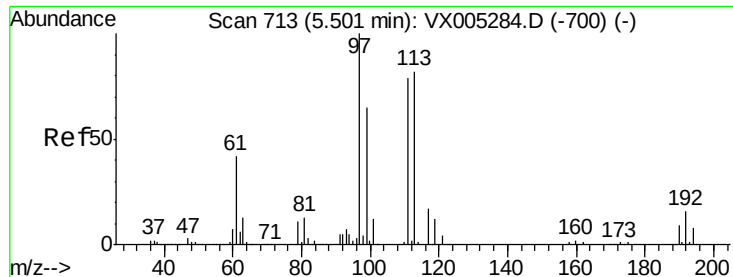
Tot Ion: 65 Resp: 168760
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX005307.D
 Acq: 12 Oct 2018 22:18

Tgt Ion: 114 Resp: 389081
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.0
 88 12.7 0.0 30.4

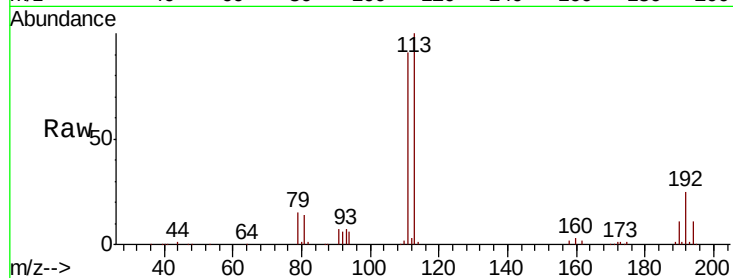




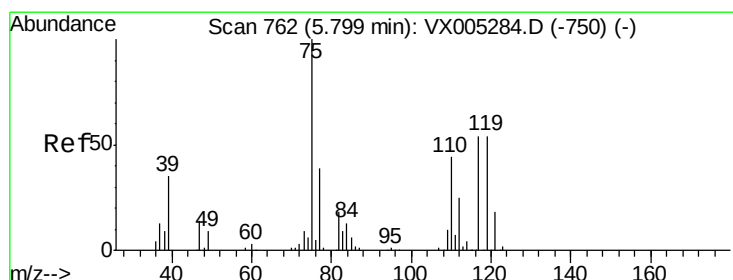
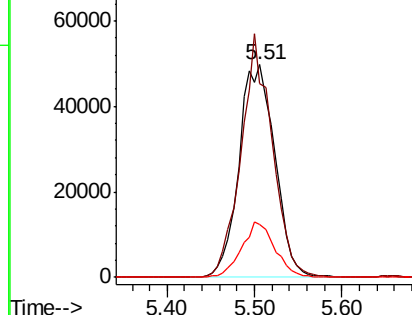
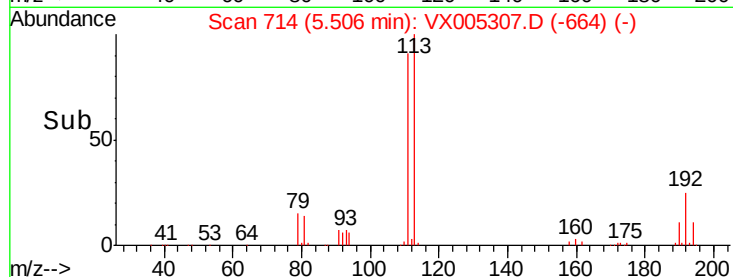
#35
 Dibromofluoromethane
 Concen: 55.202 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005307.D
 Acq: 12 Oct 2018 22:18

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:113 Resp: 142254
 Ion Ratio Lower Upper
 113 100
 111 99.2 82.4 123.6
 192 23.9 19.4 29.2

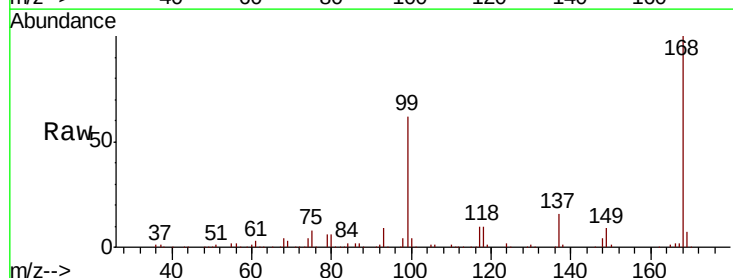


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

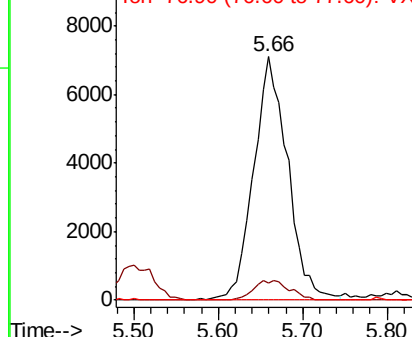
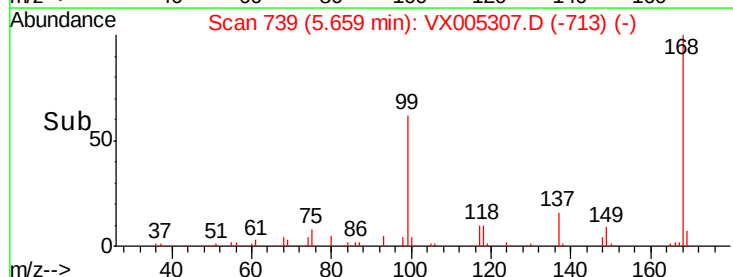


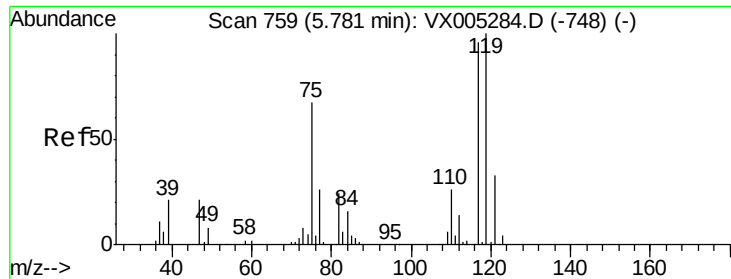
#36
 1,1-Dichloropropene
 Concen: 5.201 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005307.D
 Acq: 12 Oct 2018 22:18

Tgt Ion: 75 Resp: 19600
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.0 54.0#
 77 0.0 24.6 36.8#



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: 6.671 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

ClientSampleId :

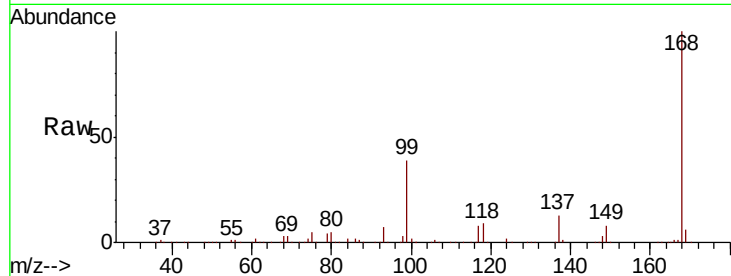
Tot Ion:117 Resp: 25260

Ion Ratio Lower Upper

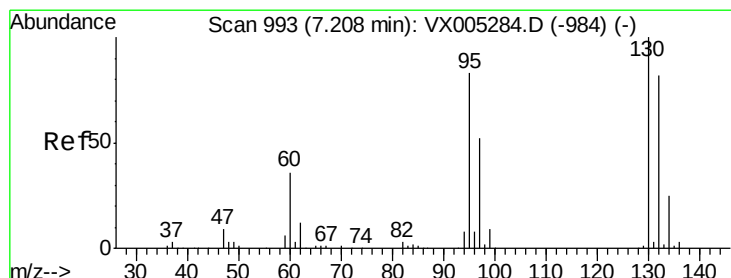
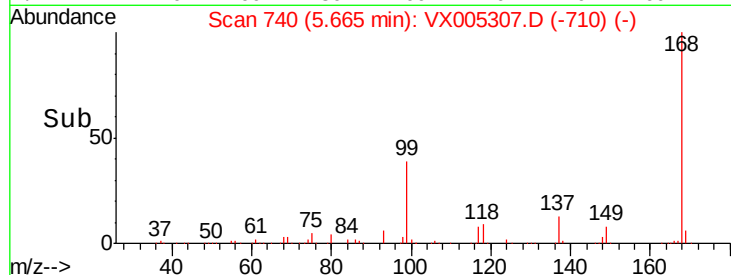
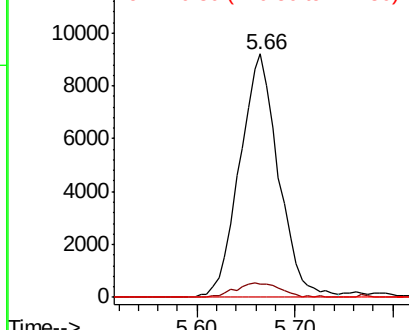
117 100

119 5.3 78.8 118.2#

121 0.0 24.9 37.3#



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: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005307.D

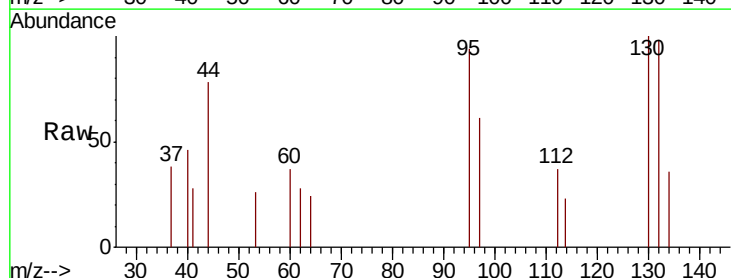
Acq: 12 Oct 2018 22:18

Tgt Ion:130 Resp: 389

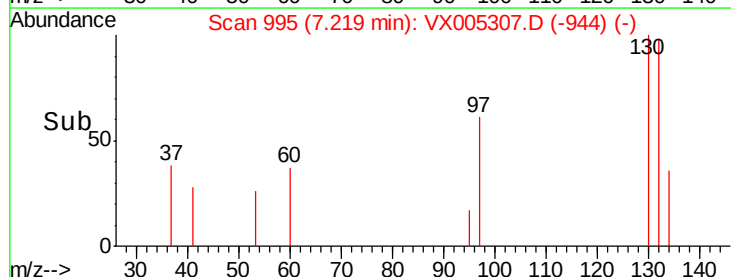
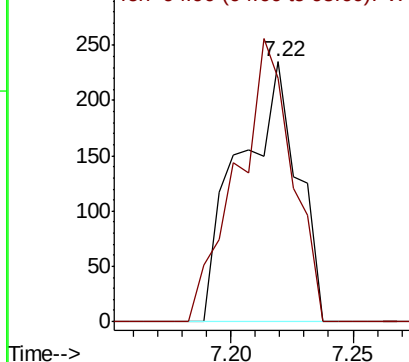
Ion Ratio Lower Upper

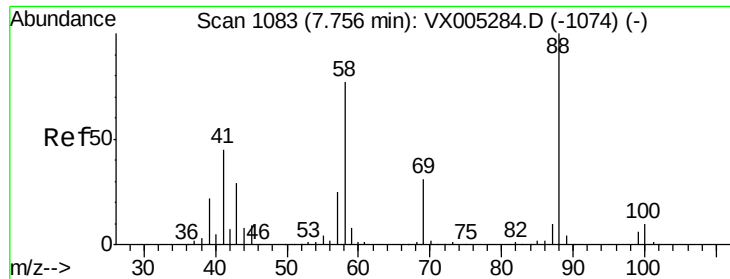
130 100

95 93.6 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

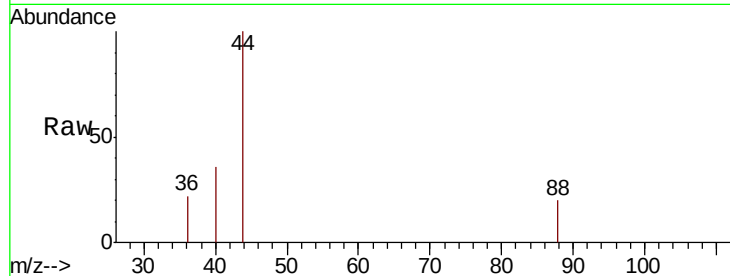




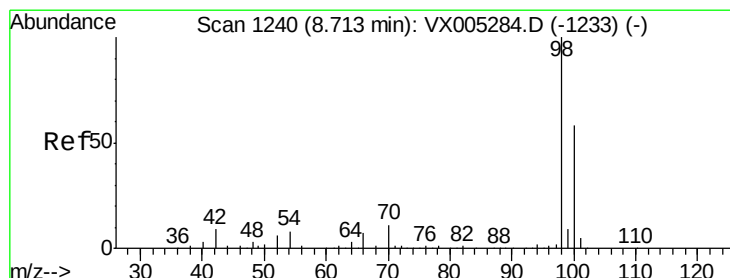
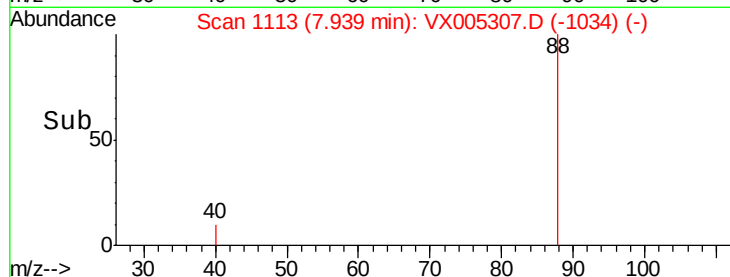
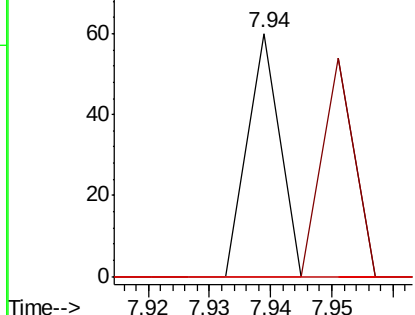
#49
 1,4-Dioxane
 Concen: 0.285 ug/l
 RT: 7.94 min Scan# 1113
 Delta R.T. 0.18 min
 Lab File: VX005307.D
 Acq: 12 Oct 2018 22:18

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 88 Resp: 22
 Ion Ratio Lower Upper
 88 100
 43 90.9 24.7 37.1#
 58 0.0 55.3 82.9#

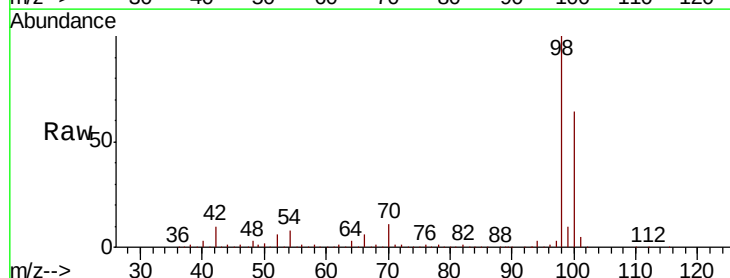


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

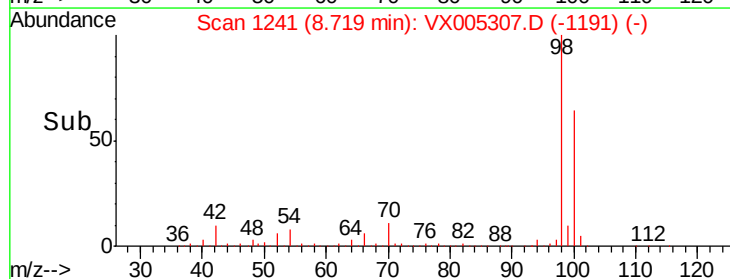
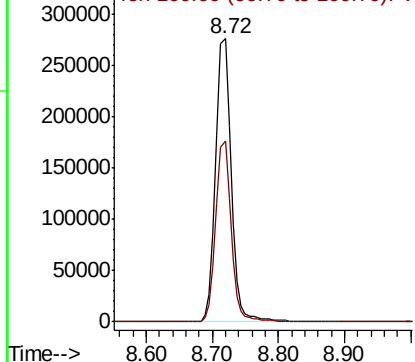


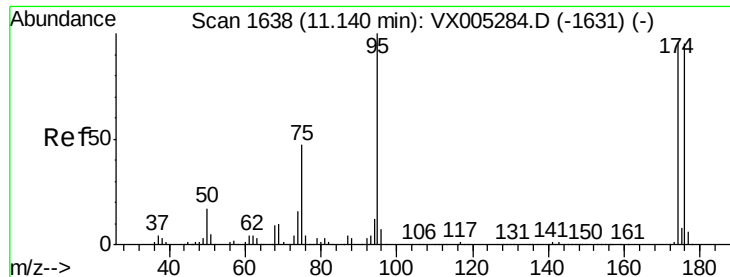
#50
 Toluene-d8
 Concen: 51.075 ug/l
 RT: 8.72 min Scan# 1241
 Delta R.T. 0.01 min
 Lab File: VX005307.D
 Acq: 12 Oct 2018 22:18

Tgt Ion: 98 Resp: 451855
 Ion Ratio Lower Upper
 98 100
 100 63.0 52.9 79.3



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

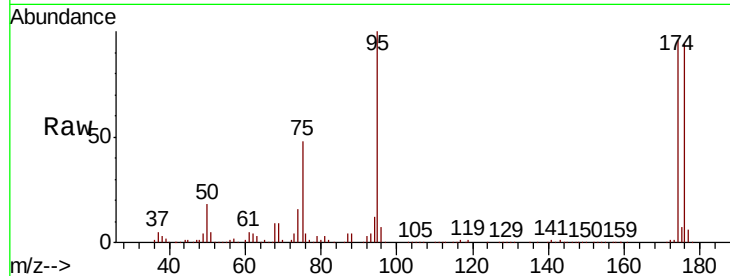




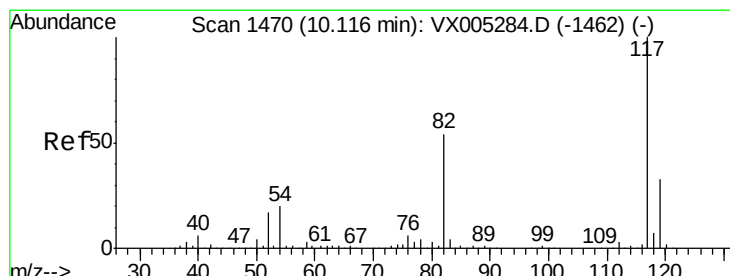
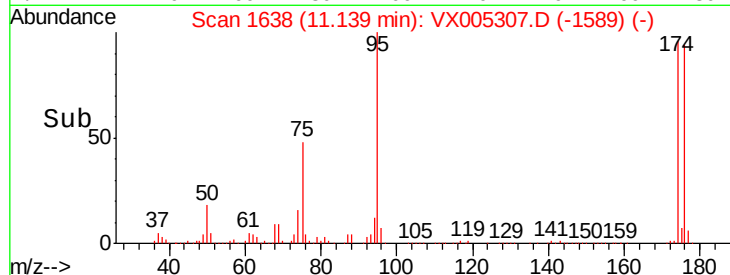
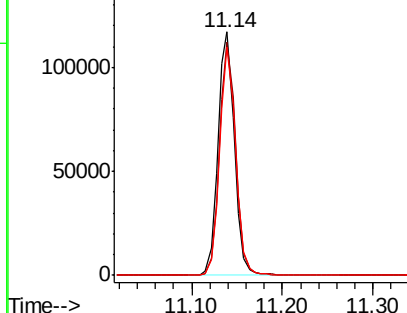
#62
4-Bromofluorobenzene
Concen: 44.567 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005307.D
Acq: 12 Oct 2018 22:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	94.9	0.0	185.2
176	91.2	0.0	178.6

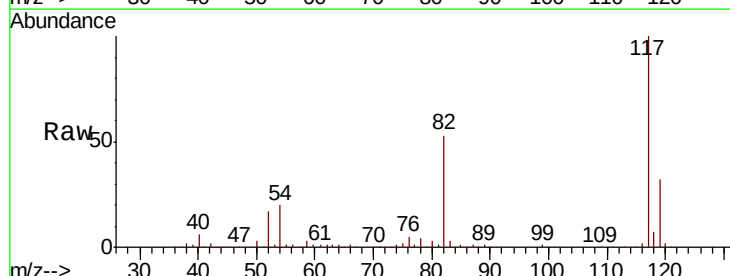


Abundance Ion 94.90 (94.60 to 95.60): VX005284.D (-1631) (-)
Ion 173.80 (173.50 to 174.50): VX005284.D (-1631) (-)
Ion 175.80 (175.50 to 176.50): VX005284.D (-1631) (-)

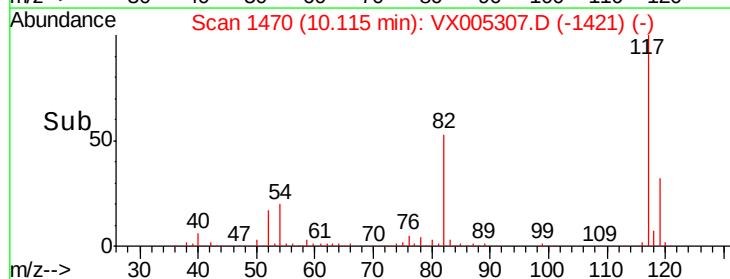
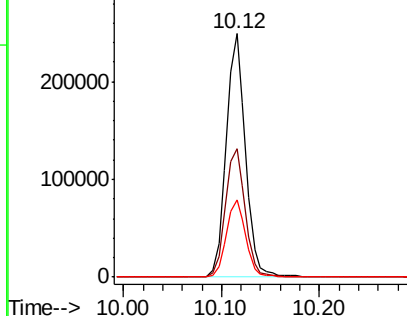


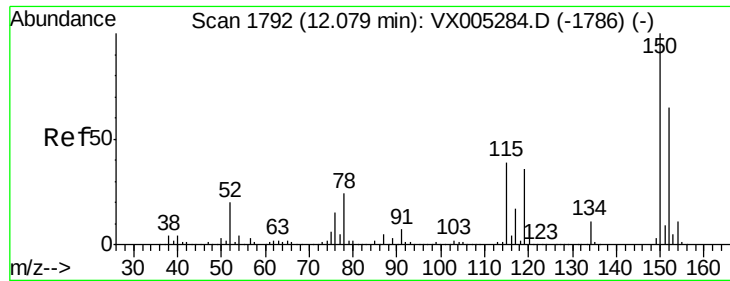
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005307.D
Acq: 12 Oct 2018 22:18

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.0	47.8	71.6
119	31.7	29.3	43.9



Abundance Ion 116.90 (116.60 to 117.60): VX005284.D (-1462) (-)
Ion 82.00 (81.70 to 82.70): VX005284.D (-1462) (-)
Ion 118.90 (118.60 to 119.60): VX005284.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

ClientSampled :

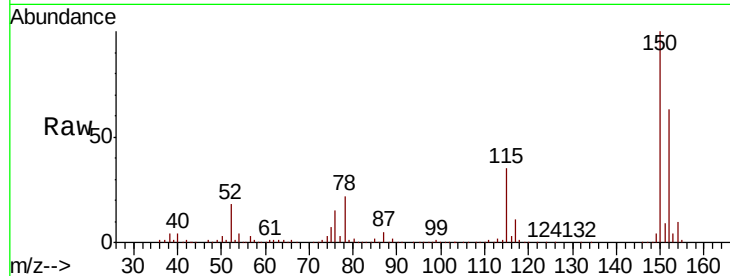
Tot Ion:152 Resp: 163641

Ion Ratio Lower Upper

152 100

115 54.8 39.0 117.0

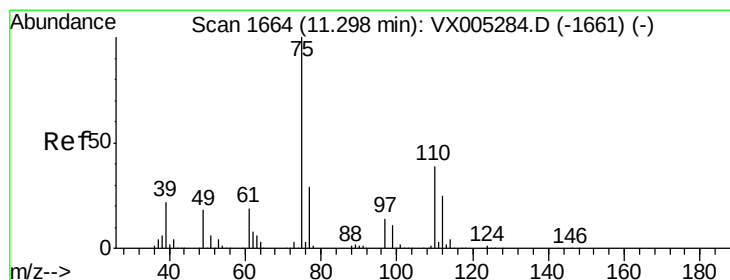
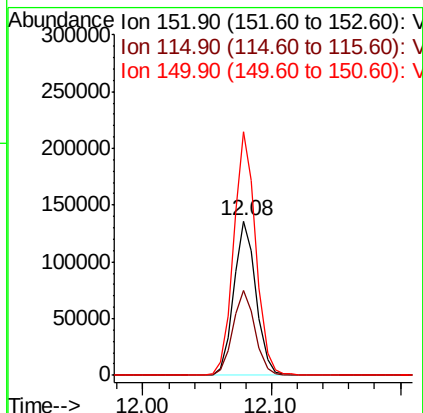
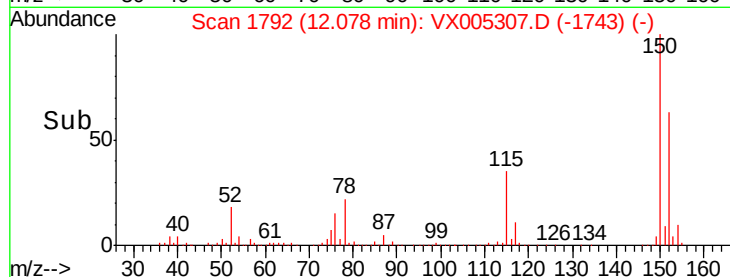
150 157.2 0.0 351.0



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: 22.937 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005307.D

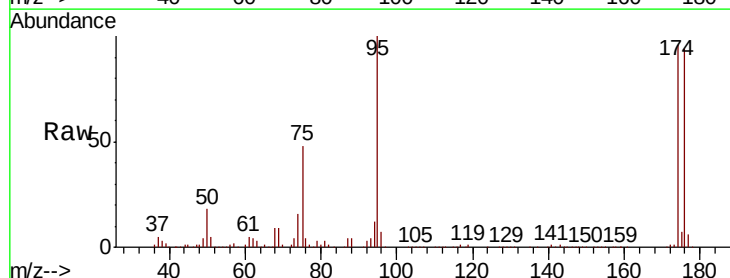
Acq: 12 Oct 2018 22:18

Tgt Ion: 75 Resp: 72807

Ion Ratio Lower Upper

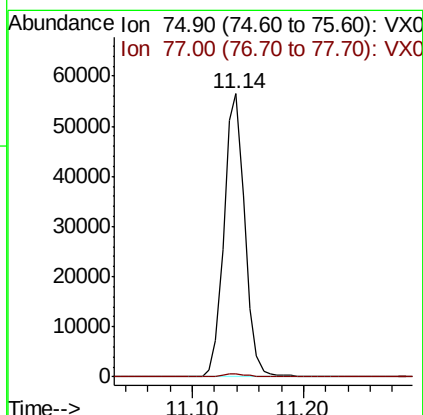
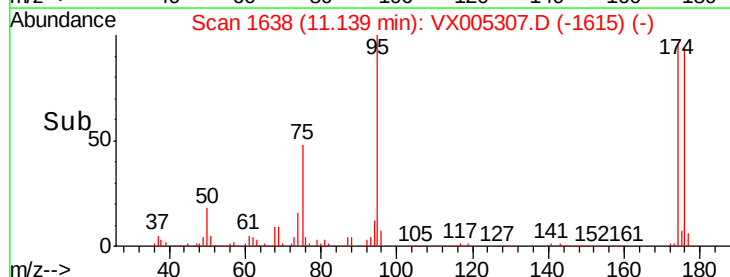
75 100

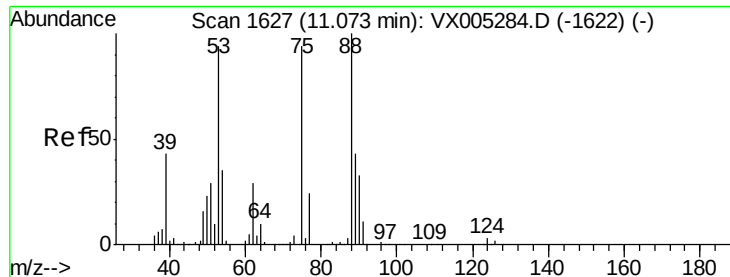
77 1.3 20.2 60.6#



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: 69.695 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005307.D

Acq: 12 Oct 2018 22:18

Instrument :

MSVOA_X

ClientSampleId :

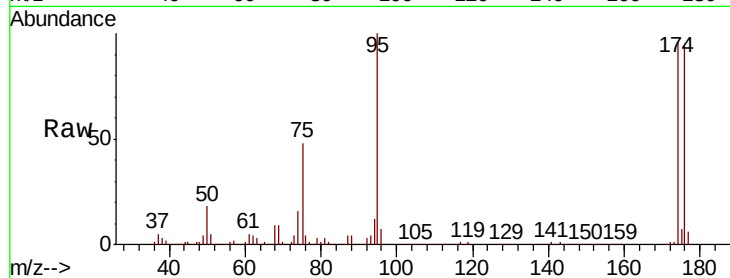
Tot Ion: 75 Resp: 72807

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

