

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005317.D
 Acq On : 13 Oct 2018 02:44
 Operator : JC/MD
 Sample : J5393-10DL 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 13 04:08:59 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	5.67	168	258915	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	371193	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	335796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164522	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	150774	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	
35) Dibromofluoromethane	5.50	113	120585	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	8.71	98	448417	53.13	ug/l	0.00
Spiked Amount			Recovery	=	106.26%	
62) 4-Bromofluorobenzene	11.14	95	145746	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	

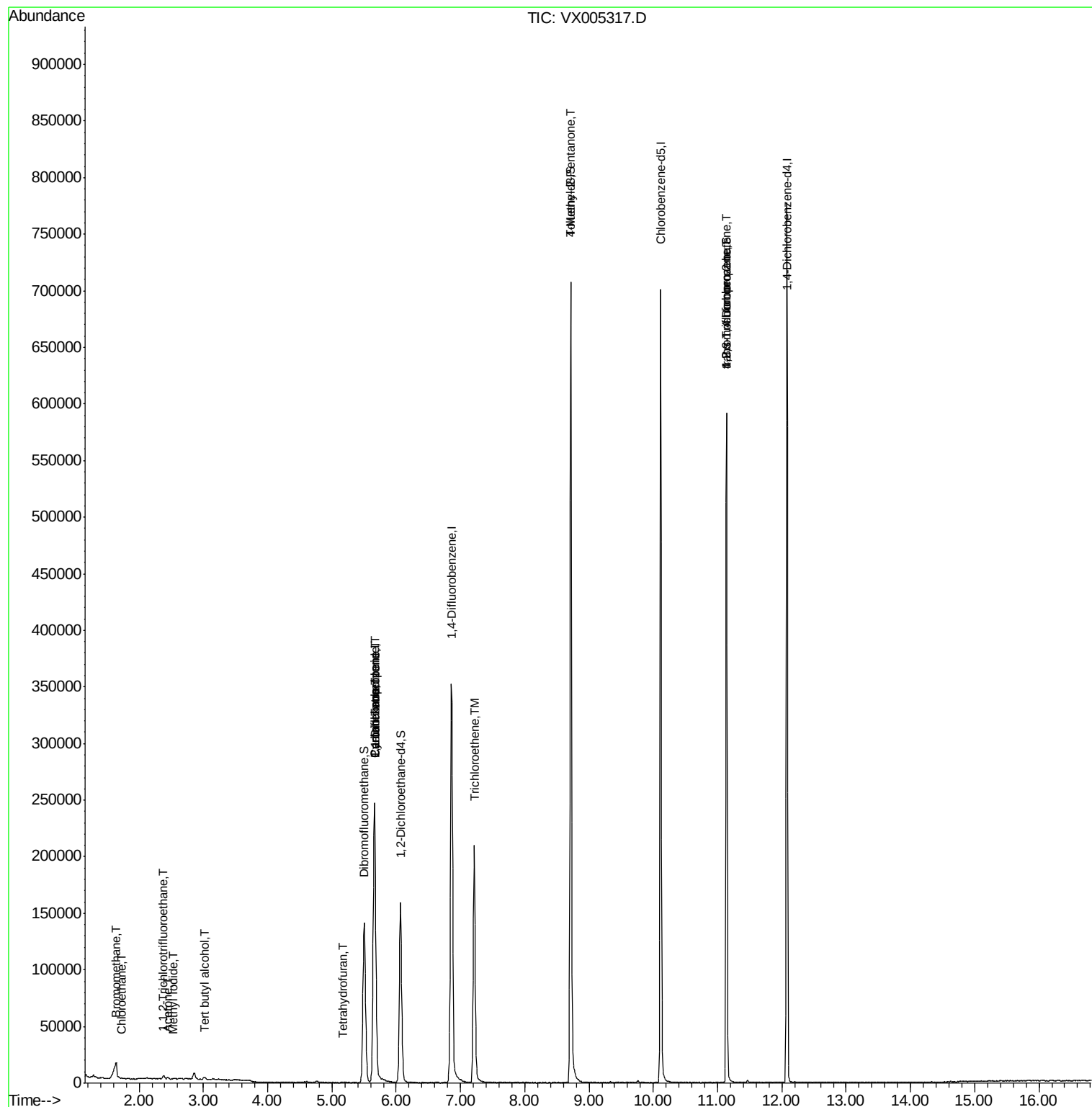
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	676	0.982	ug/l #	78
6) Chloroethane	1.74	64	30	0.350	ug/l #	44
9) 1,1,2-Trichlorotrifluoroet	2.39	101	884	0.386	ug/l #	76
10) Methyl Iodide	2.52	142	240	2.580	ug/l #	73
11) Tert butyl alcohol	3.02	59	1520	1.875	ug/l #	76
13) Acrolein	2.31	56	61	Below Cal	#	1
16) Acetone	2.45	43	1299	0.782	ug/l	88
20) Methylene Chloride	2.85	84	2501	Below Cal		94
29) Tetrahydrofuran	5.17	42	464	0.299	ug/l #	53
31) Cyclohexane	5.66	56	4724	1.196	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17371	4.832	ug/l #	50
38) Carbon Tetrachloride	5.66	117	22673	6.277	ug/l #	16
44) Trichloroethene	7.21	130	85411	30.779	ug/l	91
51) 4-Methyl-2-Pentanone	8.71	43	2193	0.514	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	72439	22.699	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	72439	68.971	ug/l #	10

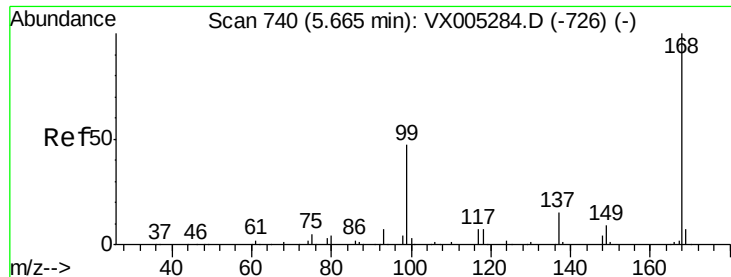
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX005317.D

Acq: 13 Oct 2018 02:44

Instrument :

MSVOA_X

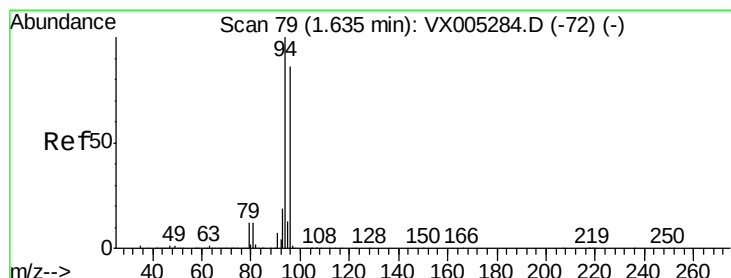
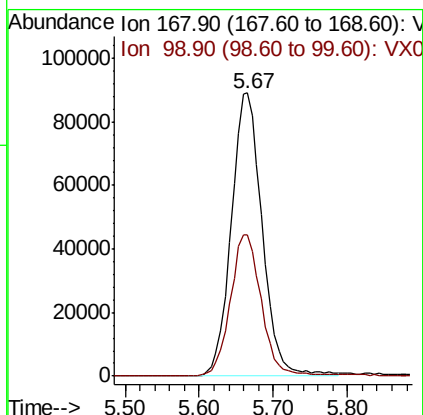
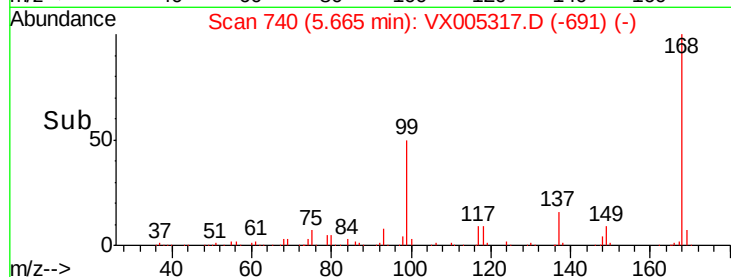
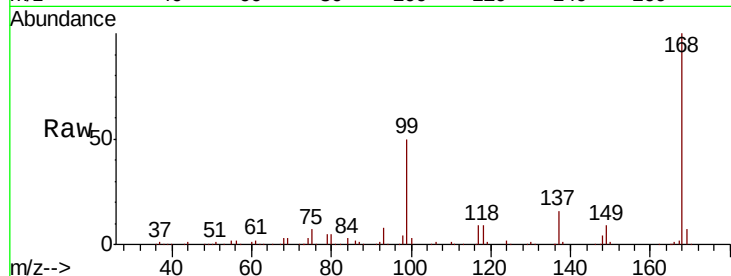
ClientSampleId :

Tot Ion:168 Resp: 258915

Ion Ratio Lower Upper

168 100

99 50.1 39.9 59.9



#5

Bromomethane

Concen: 0.982 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005317.D

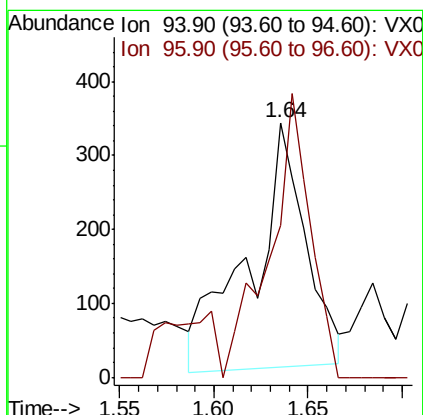
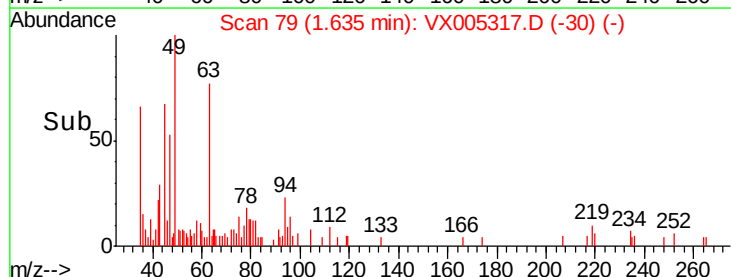
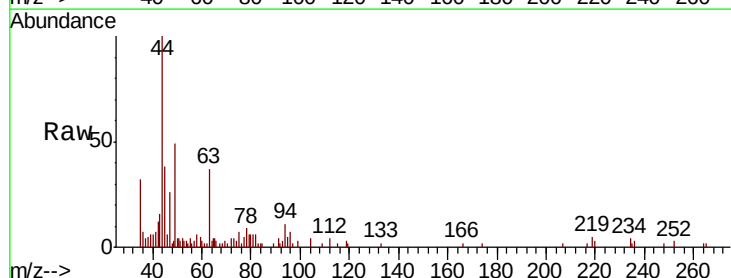
Acq: 13 Oct 2018 02:44

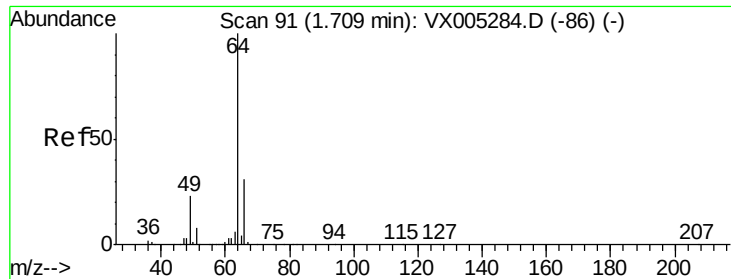
Tgt Ion: 94 Resp: 676

Ion Ratio Lower Upper

94 100

96 71.7 74.5 111.7#





#6

Chloroethane

Concen: 0.350 ug/l

RT: 1.74 min Scan# 96

Delta R.T. 0.03 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

Instrument :

MSVOA_X

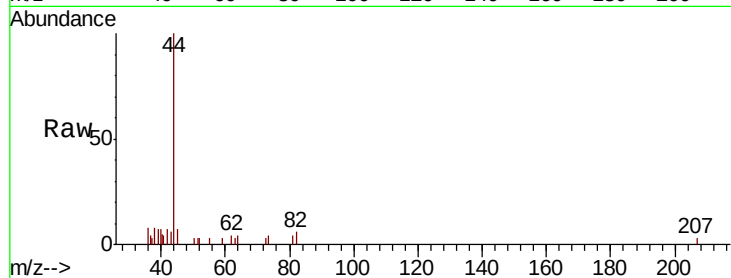
ClientSampled :

Tot Ion: 64 Resp: 30

Ion Ratio Lower Upper

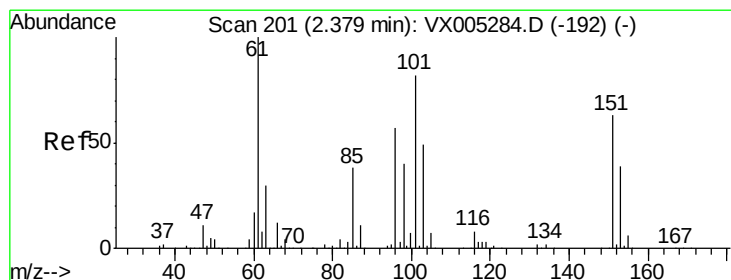
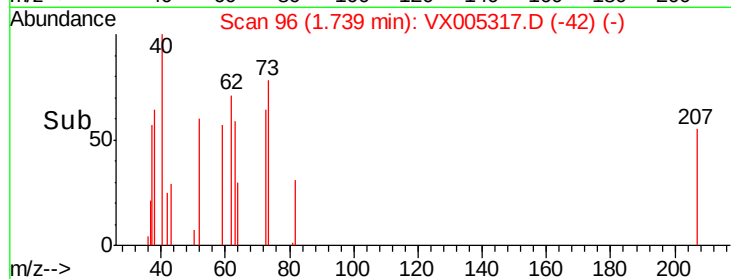
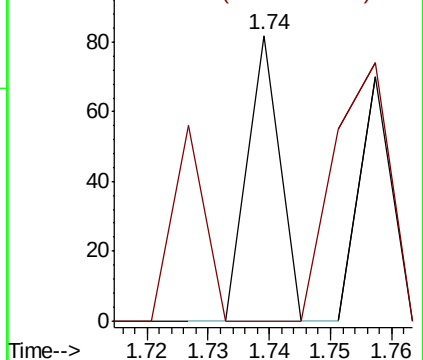
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.386 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

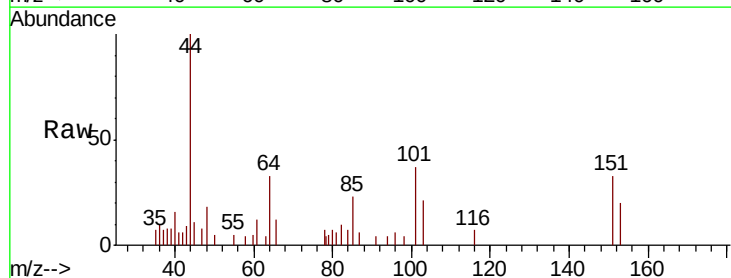
Tgt Ion: 101 Resp: 884

Ion Ratio Lower Upper

101 100

85 57.2 34.2 51.4#

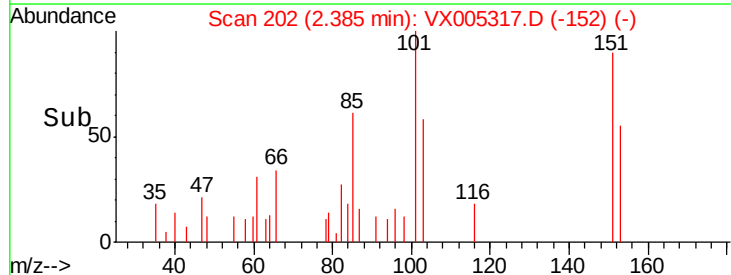
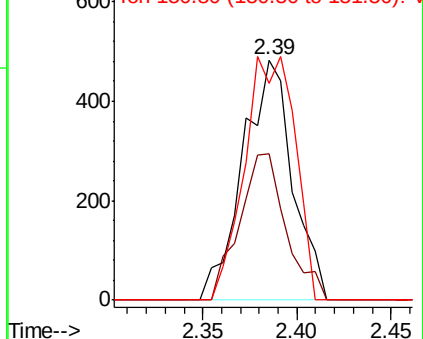
151 103.2 65.0 97.6#

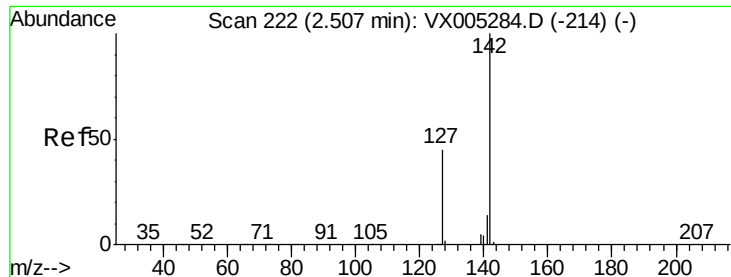


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

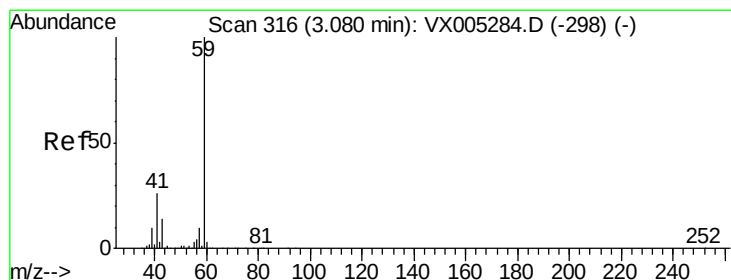
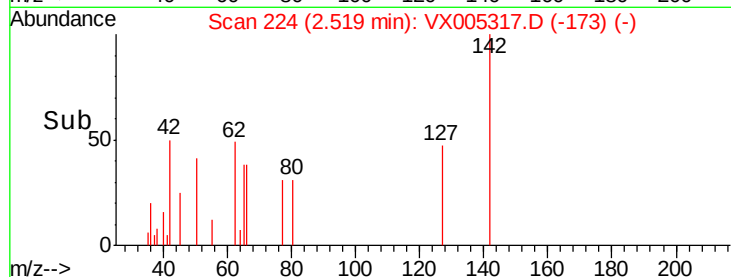
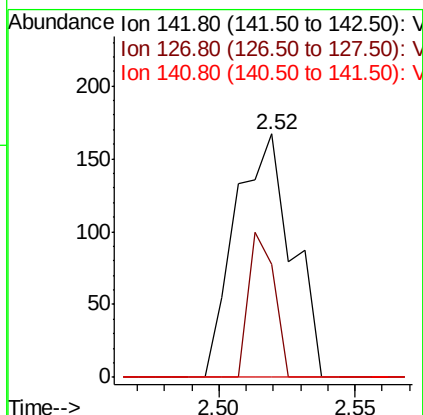
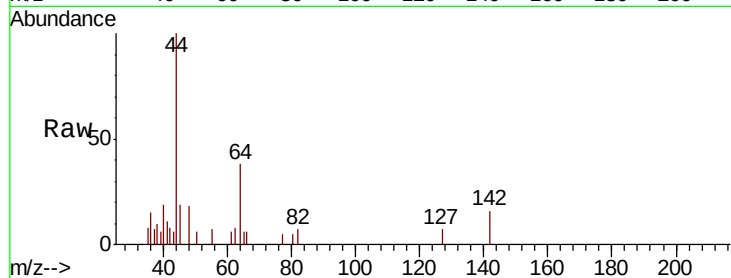




#10
Methvl Iodide
Concen: 2.580 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

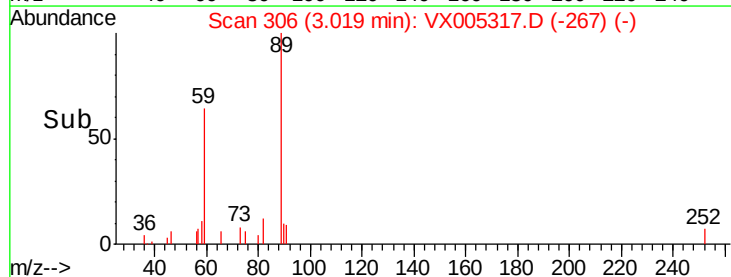
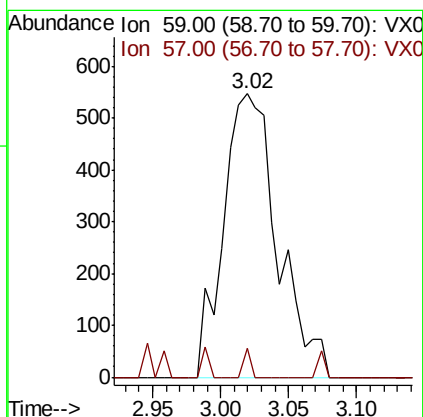
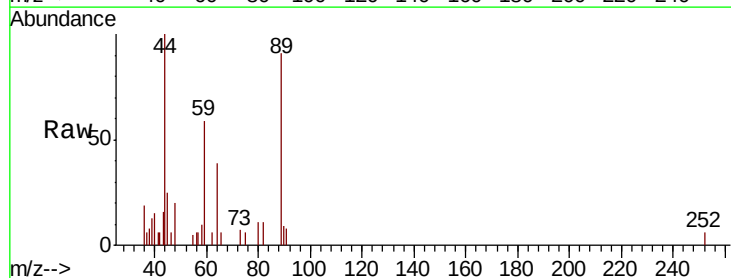
Instrument :
MSVOA_X
ClientSampled :

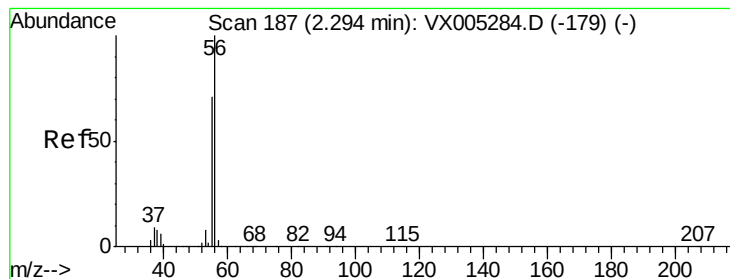
Tot Ion:142 Resp: 240
Ion Ratio Lower Upper
142 100
127 27.1 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.875 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

Tgt Ion: 59 Resp: 1520
Ion Ratio Lower Upper
59 100
57 1.3 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

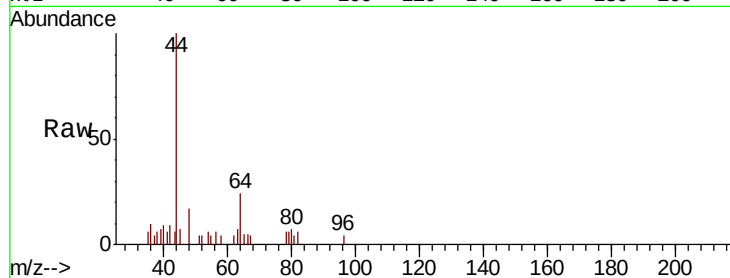
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 61

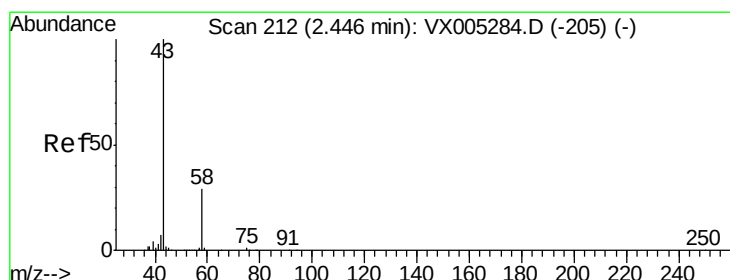
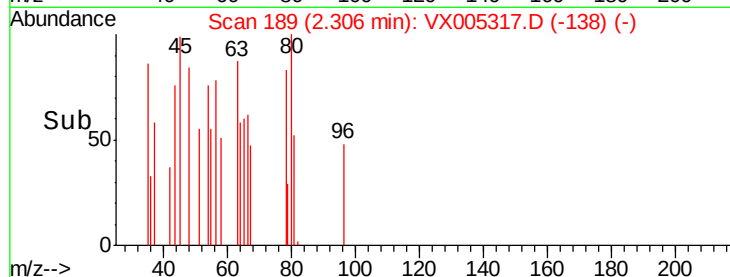
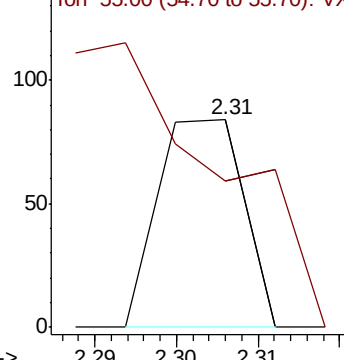
Ion Ratio Lower Upper

56 100

55 293.4 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.782 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005317.D

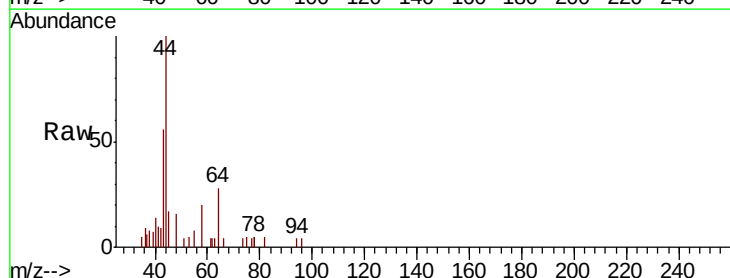
Acq: 13 Oct 2018 02:44

Tgt Ion: 43 Resp: 1299

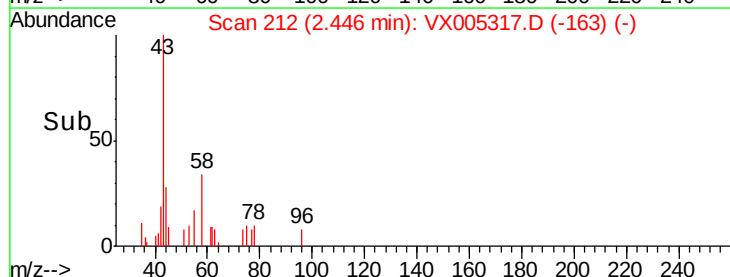
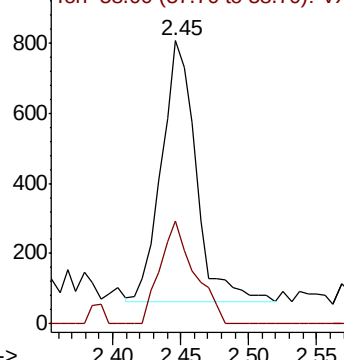
Ion Ratio Lower Upper

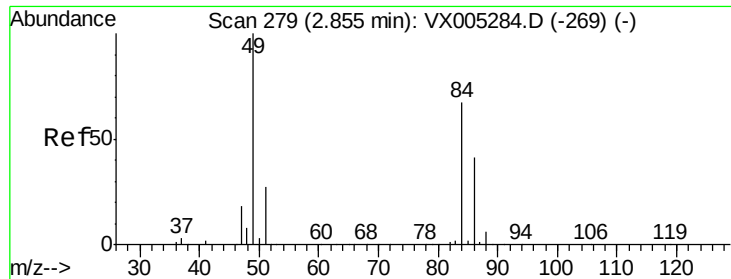
43 100

58 39.3 26.2 39.4



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

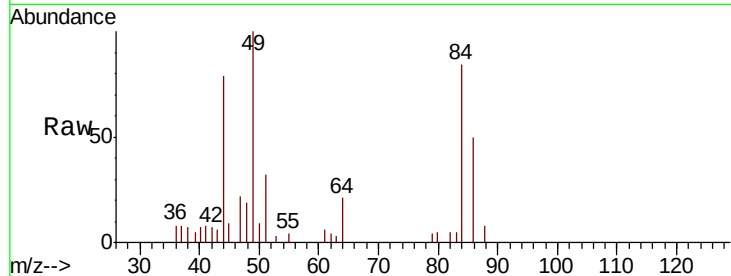




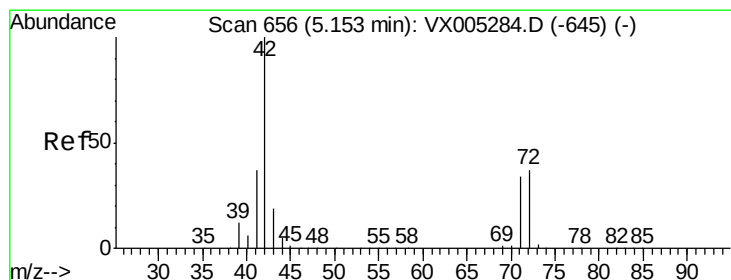
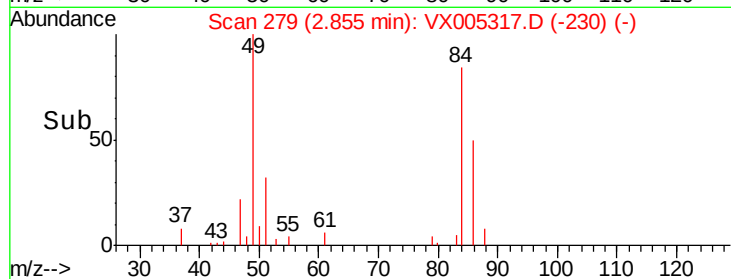
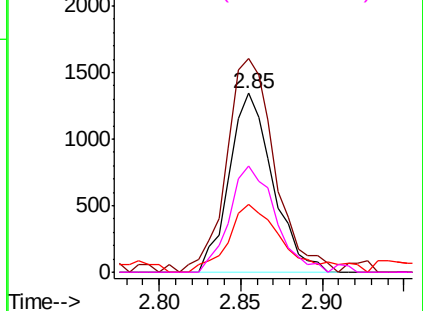
#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	84	Resp:	2501
Ion	Ratio	Lower	Upper
84	100		
49	119.3	101.2	151.8
51	38.2	29.5	44.3
86	59.3	52.3	78.5

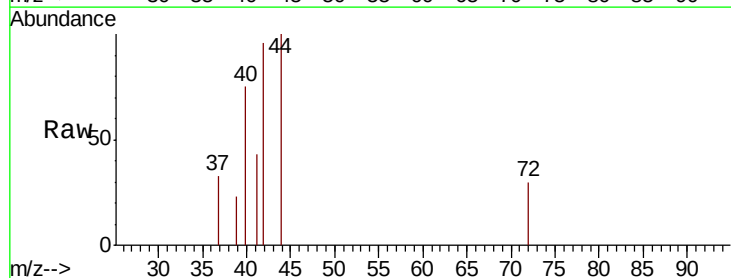


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

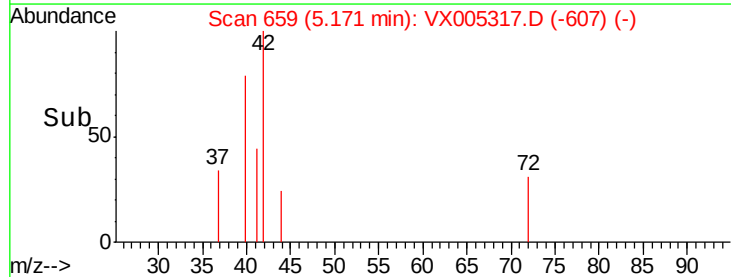
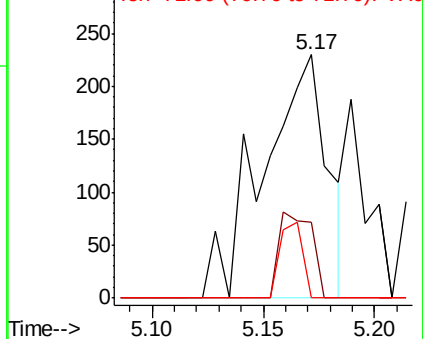


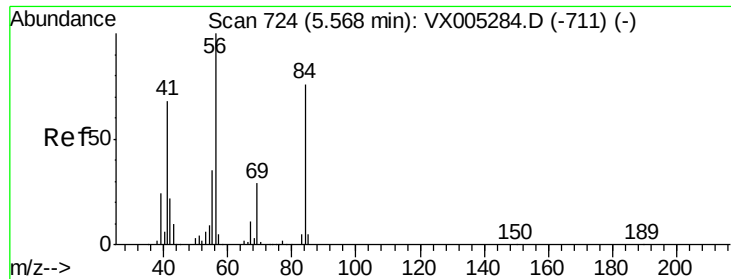
#29
Tetrahydrofuran
Concen: 0.299 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

Tgt Ion:	42	Resp:	464
Ion	Ratio	Lower	Upper
42	100		
72	17.9	37.4	56.0#
71	10.8	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

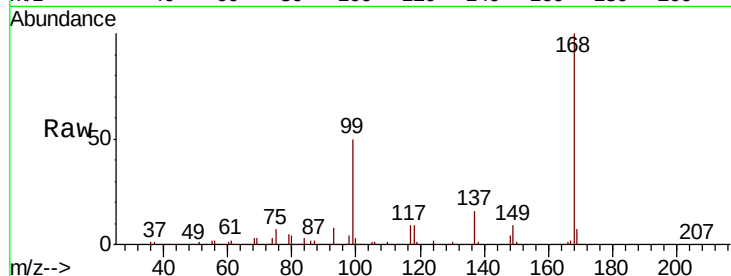




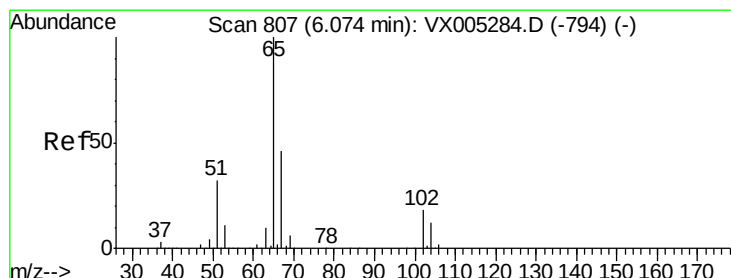
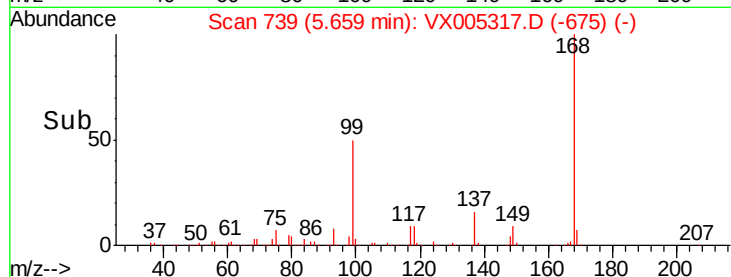
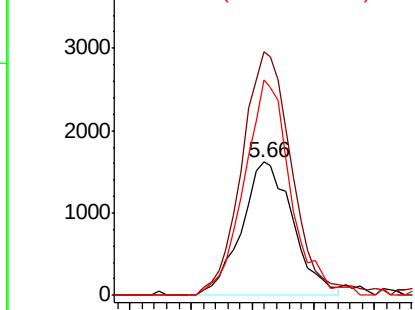
#31
Cyclohexane
Concen: 1.196 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 4724
Ion Ratio Lower Upper
56 100
69 183.2 25.4 38.2#
84 162.1 71.4 107.2#

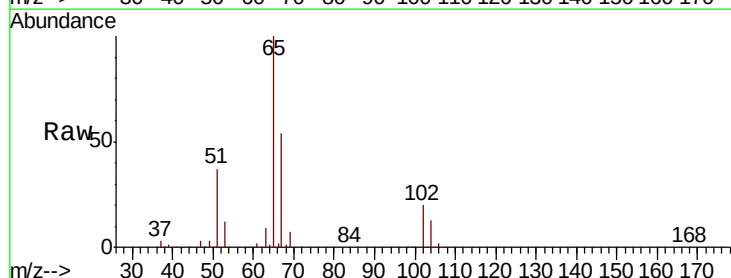


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

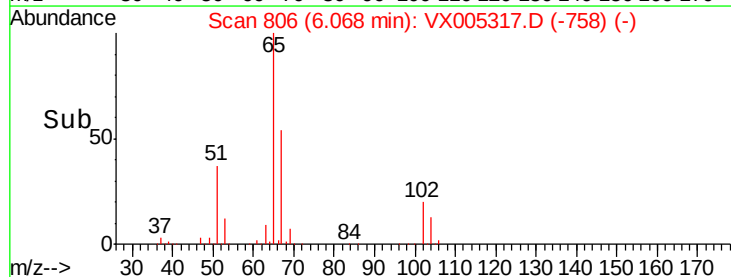
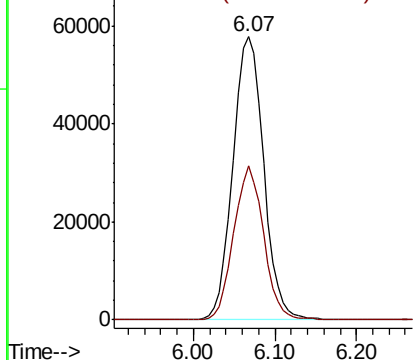


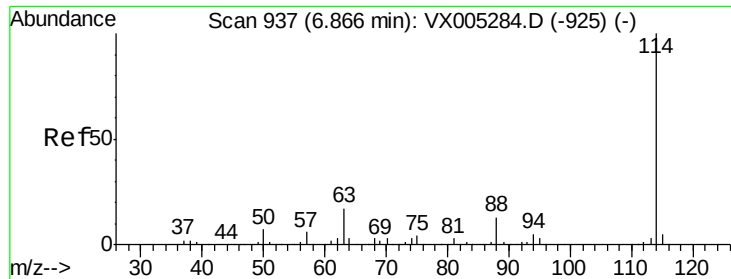
#33
1,2-Dichloroethane-d4
Concen: 52.469 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

Tgt Ion: 65 Resp: 150774
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.8



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

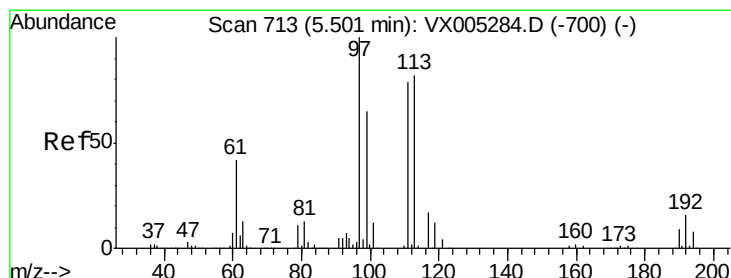
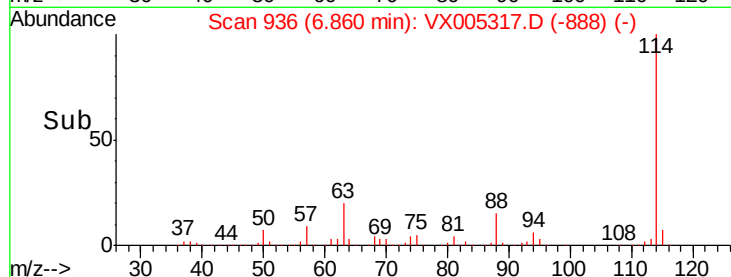
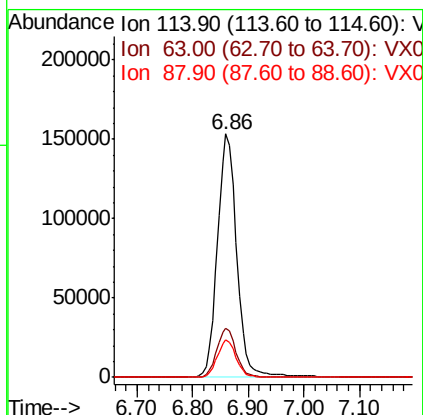
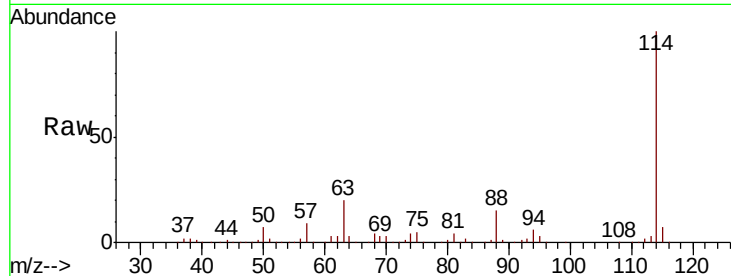




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005317.D
 Acq: 13 Oct 2018 02:44

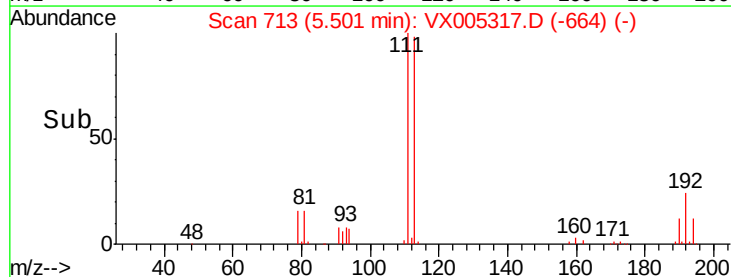
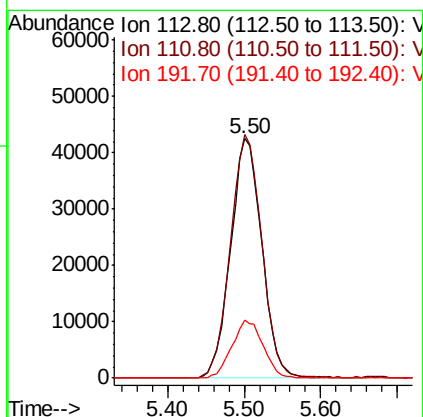
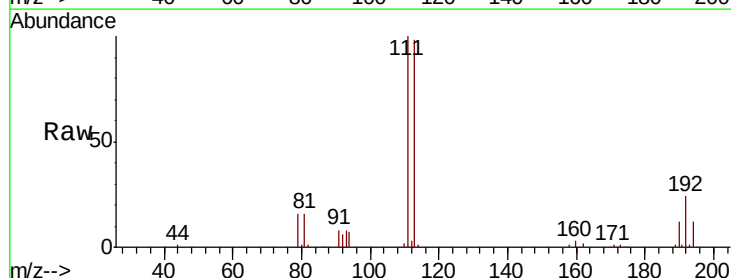
Instrument :
 MSVOA_X
 ClientSampleId :

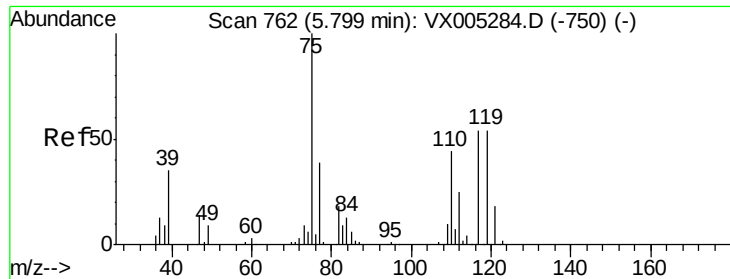
Tot Ion:114 Resp: 371193
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.3 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 49.048 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005317.D
 Acq: 13 Oct 2018 02:44

Tgt Ion:113 Resp: 120585
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.4 123.6
 192 24.1 19.4 29.2

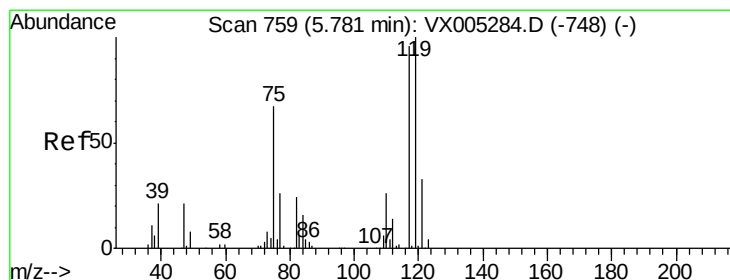
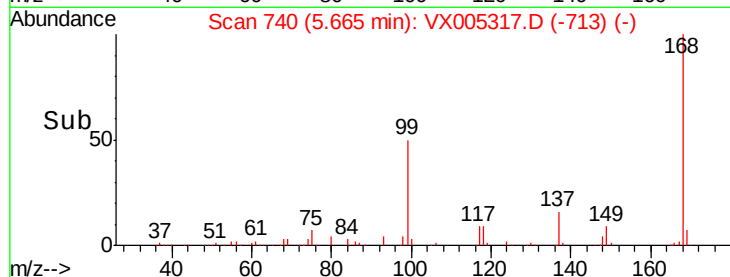
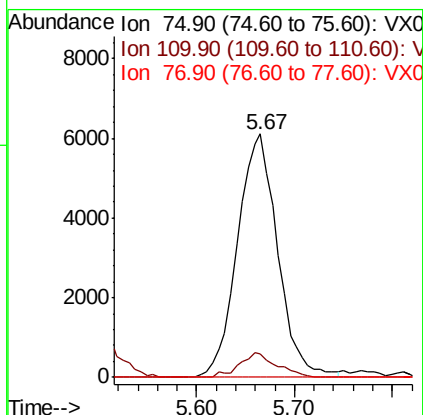
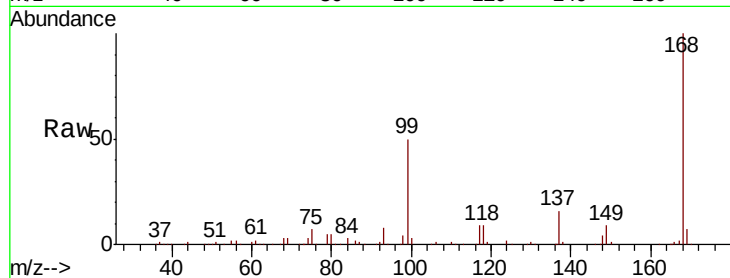




#36
 1,1-Dichloropropene
 Concen: 4.832 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005317.D
 Acq: 13 Oct 2018 02:44

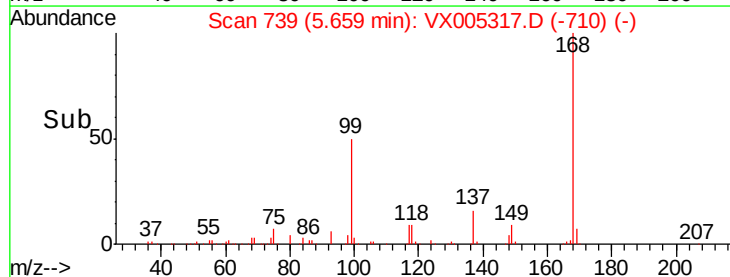
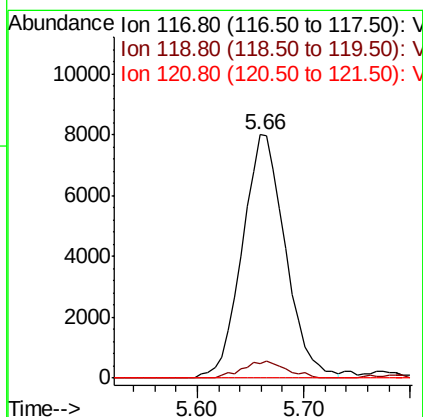
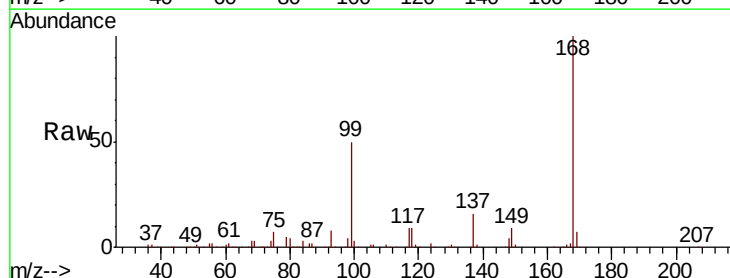
Instrument :
 MSVOA_X
 ClientSampleId :

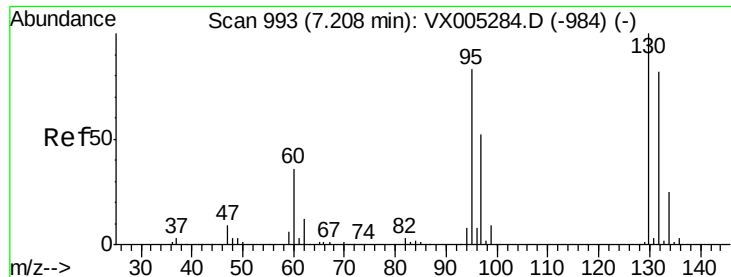
Tot Ion: 75 Resp: 17371
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.0 54.0#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.277 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX005317.D
 Acq: 13 Oct 2018 02:44

Tgt Ion: 117 Resp: 22673
 Ion Ratio Lower Upper
 117 100
 119 6.2 78.8 118.2#
 121 0.0 24.9 37.3#





#44

Trichloroethene

Concen: 30.779 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

Instrument :

MSVOA_X

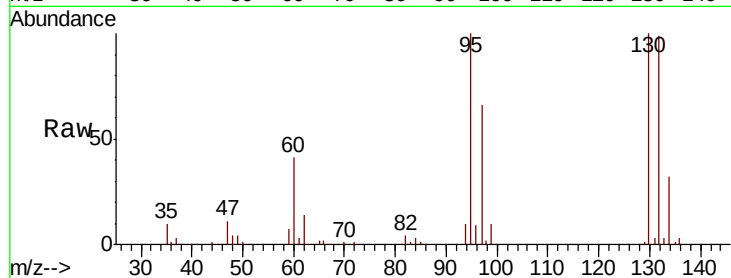
ClientSampleId :

Tot Ion:130 Resp: 85411

Ion Ratio Lower Upper

130 100

95 99.7 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

40000

30000

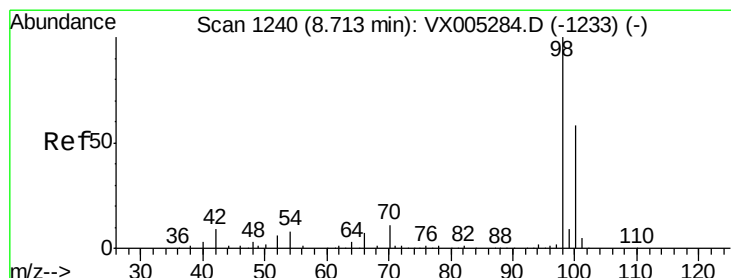
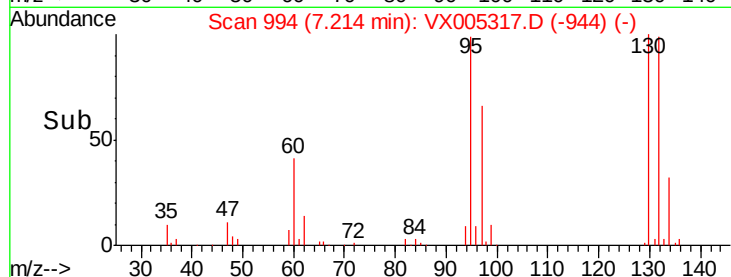
20000

10000

0

7.10 7.20 7.30 7.40

Time-->



#50

Toluene-d8

Concen: 53.129 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005317.D

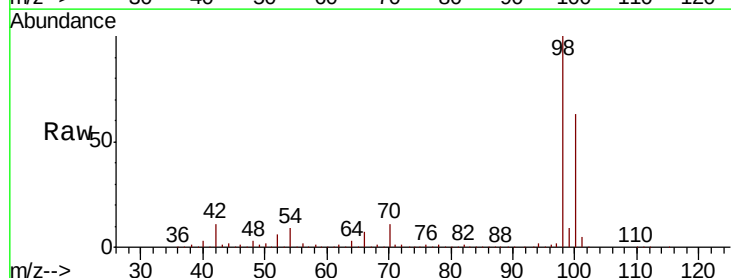
Acq: 13 Oct 2018 02:44

Tgt Ion: 98 Resp: 448417

Ion Ratio Lower Upper

98 100

100 63.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

250000

200000

150000

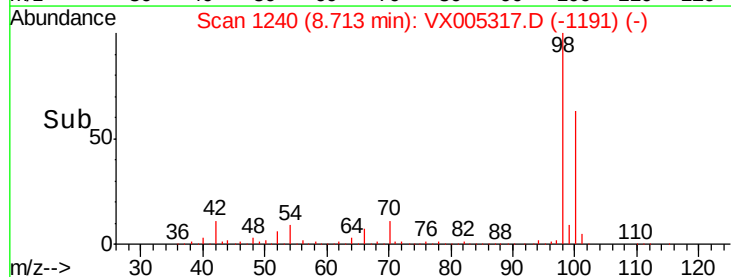
100000

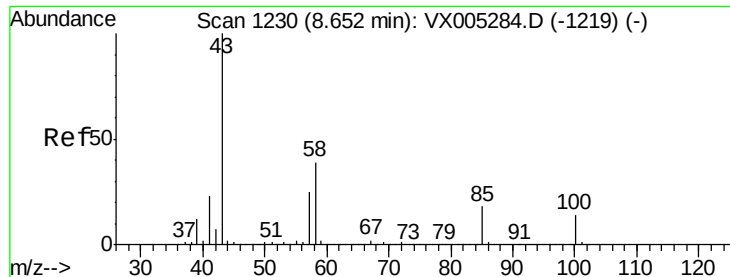
50000

0

8.60 8.70 8.80 8.90

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.514 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

Instrument :

MSVOA_X

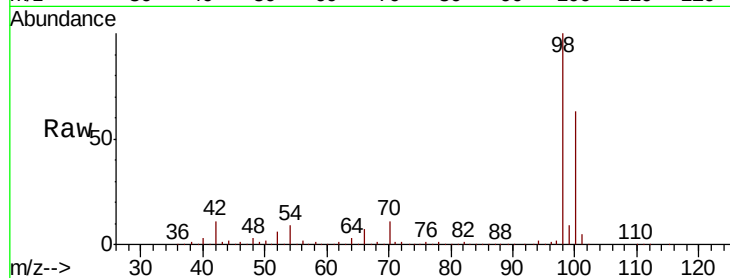
ClientSampleId :

Tot Ion: 43 Resp: 2193

Ion Ratio Lower Upper

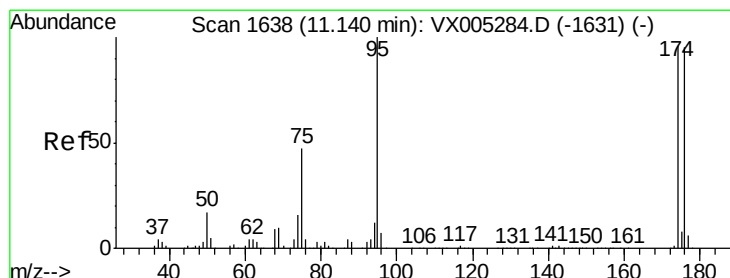
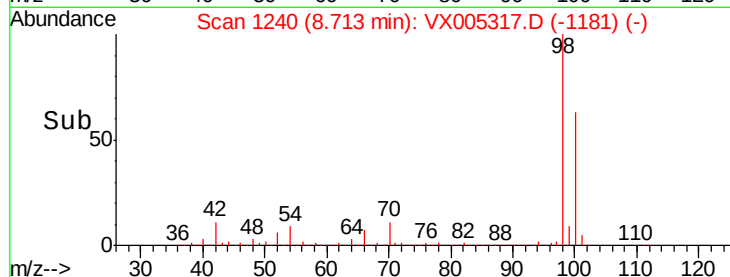
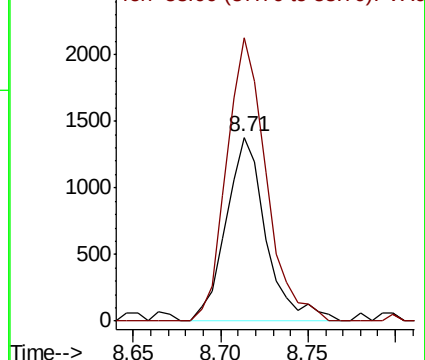
43 100

58 152.5 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.967 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

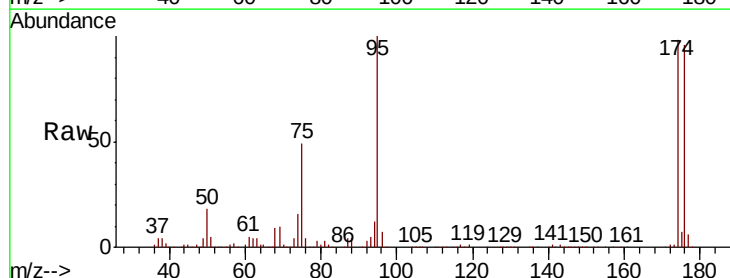
Tgt Ion: 95 Resp: 145746

Ion Ratio Lower Upper

95 100

174 95.7 0.0 185.2

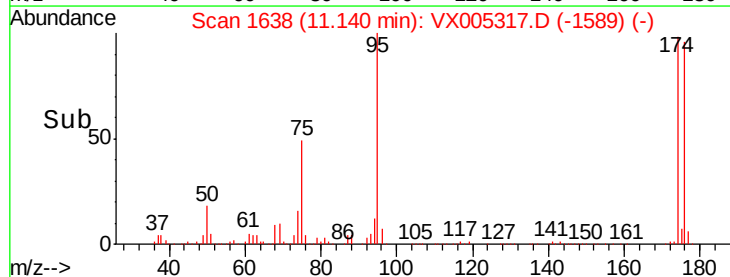
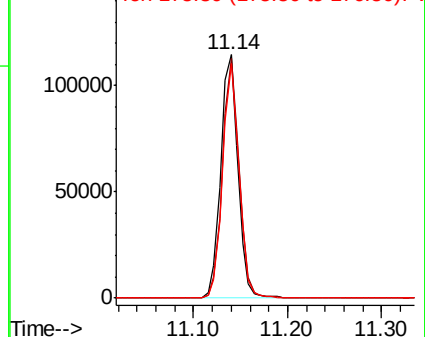
176 92.3 0.0 178.6

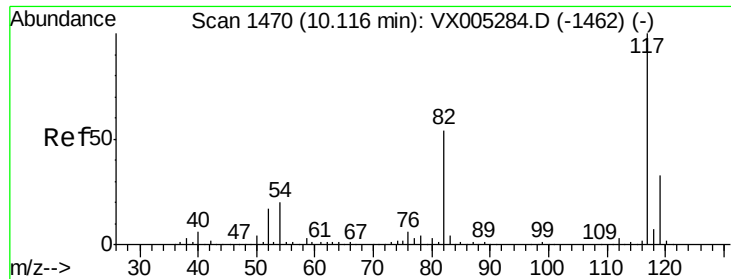


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

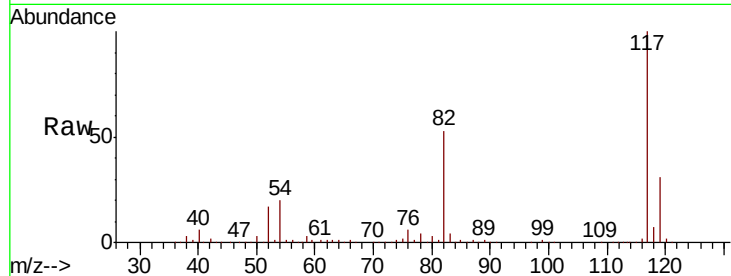




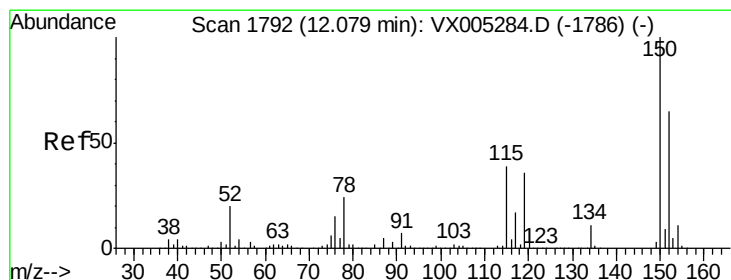
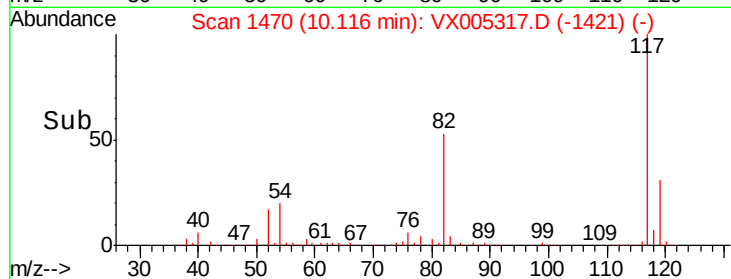
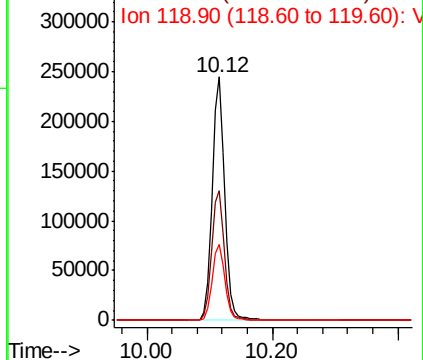
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 335796
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 31.1 29.3 43.9

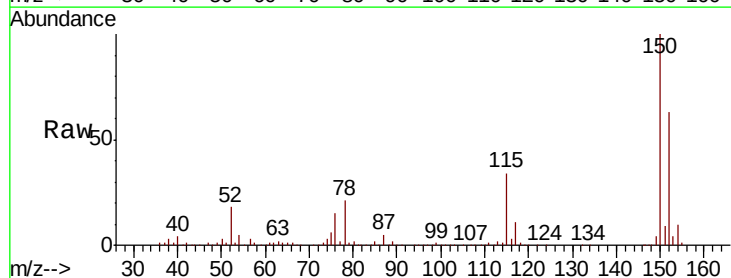


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

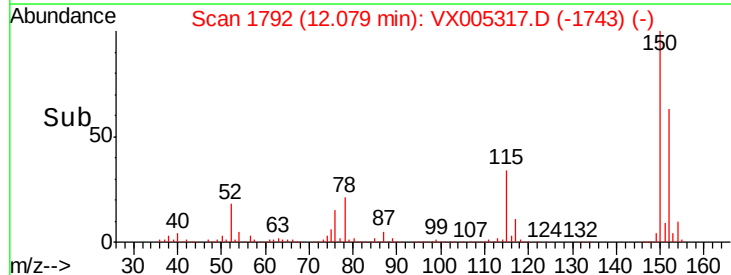
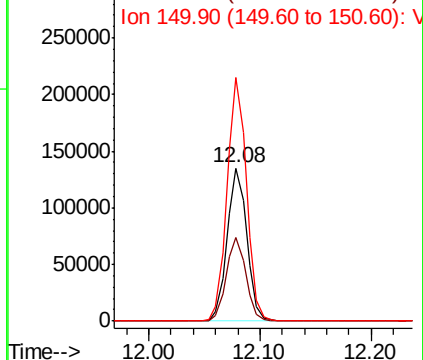


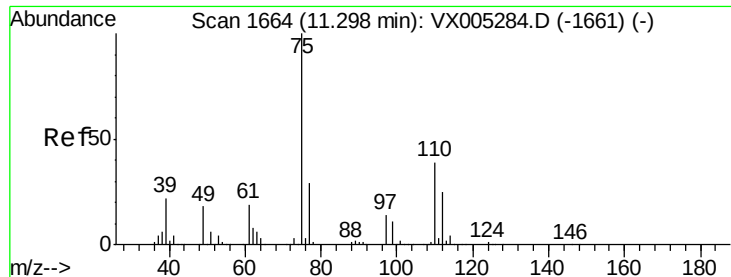
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005317.D
Acq: 13 Oct 2018 02:44

Tgt Ion:152 Resp: 164522
Ion Ratio Lower Upper
152 100
115 54.5 39.0 117.0
150 157.5 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: 22.699 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

Instrument :

MSVOA_X

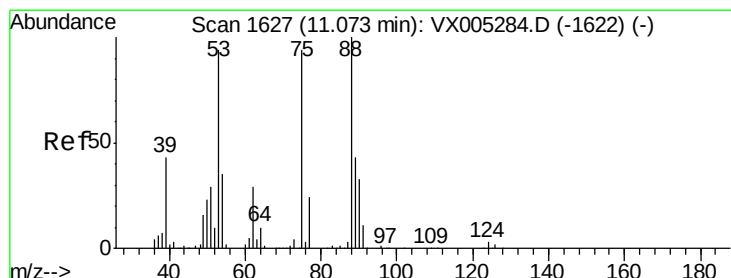
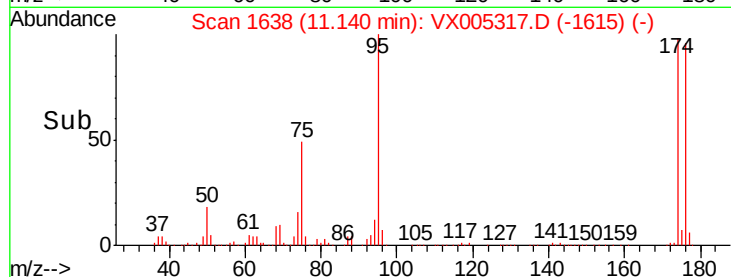
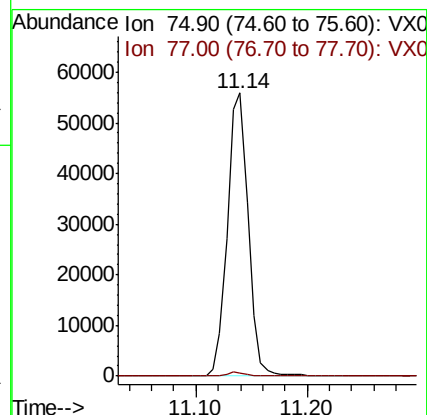
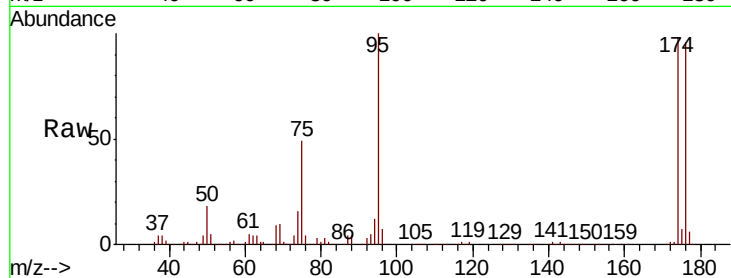
ClientSampleId :

Tot Ion: 75 Resp: 72439

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.971 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005317.D

Acq: 13 Oct 2018 02:44

Tgt Ion: 75 Resp: 72439

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

