

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX122018\
 Data File : VX006696.D
 Acq On : 21 Dec 2018 01:07
 Operator : JC/MD
 Sample : J6514-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0495

Quant Time: Dec 21 03:38:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

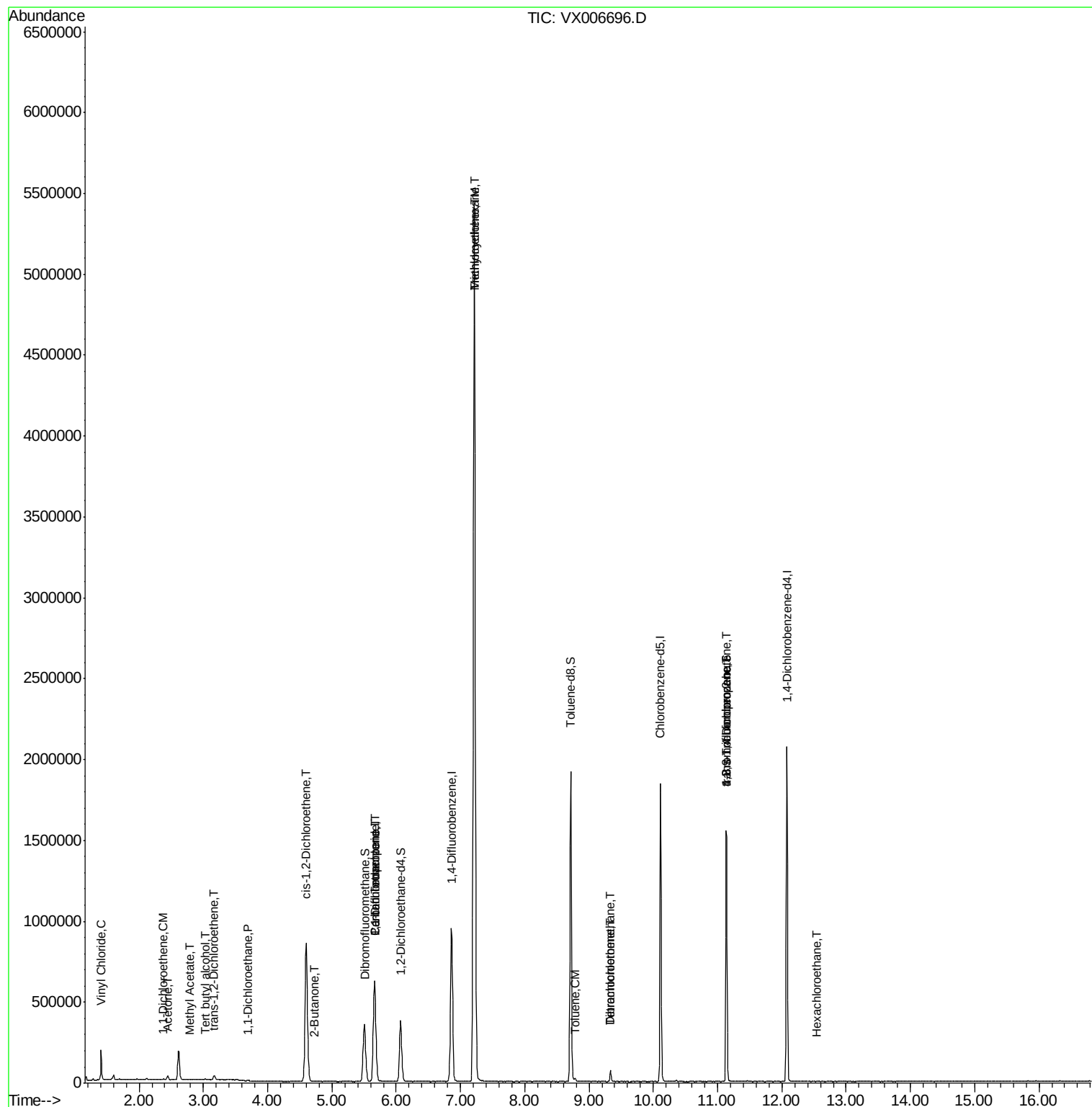
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	637944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1016039	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	925047	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	436722	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	348896	50.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.48%	
35) Dibromofluoromethane	5.50	113	304044	47.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.64%	
50) Toluene-d8	8.71	98	1204023	49.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.13	95	420224	47.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.74%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.41	62	110939	16.894	ug/l	99
5) Bromomethane	1.65	94	624	Below Cal	#	34
11) Tert butyl alcohol	3.02	59	4926	3.210	ug/l	95
12) 1,1-Dichloroethene	2.38	96	2160	0.379	ug/l	82
16) Acetone	2.45	43	22255	7.045	ug/l	99
18) Methyl Acetate	2.79	43	3071	0.331	ug/l #	80
21) trans-1,2-Dichloroethene	3.17	96	11072	1.753	ug/l	95
24) 1,1-Dichloroethane	3.69	63	7547	0.720	ug/l	95
25) 2-Butanone	4.72	43	934	0.210	ug/l #	86
27) cis-1,2-Dichloroethene	4.60	96	579840	83.216	ug/l	91
28) Bromochloromethane	5.01	49	295	Below Cal	#	24
36) 1,1-Dichloropropene	5.66	75	42009	4.992	ug/l #	49
38) Carbon Tetrachloride	5.67	117	60760	7.430	ug/l #	15
39) Methylcyclohexane	7.21	83	23350	2.108	ug/l #	1
44) Trichloroethene	7.21	130	2129216	275.020	ug/l	99
49) 1,4-Dioxane	7.76	88	68	Below Cal	#	1
52) Toluene	8.79	92	6449	0.390	ug/l	91
60) Dibromochloromethane	9.34	129	11832	3.919	ug/l #	10
64) Tetrachloroethene	9.34	164	13373	1.826	ug/l #	90
76) 1,2,3-Trichloropropane	11.13	75	197135	24.289	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	197135	71.895	ug/l #	10
90) Hexachloroethane	12.53	117	76	3.310	ug/l	67

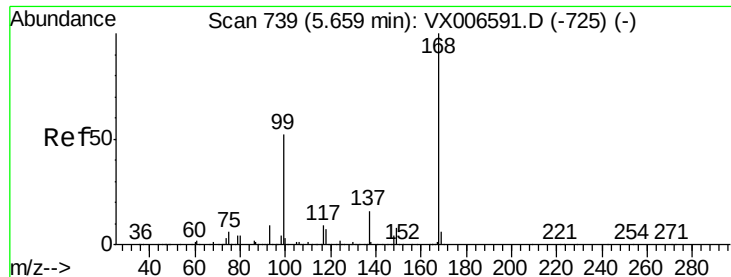
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

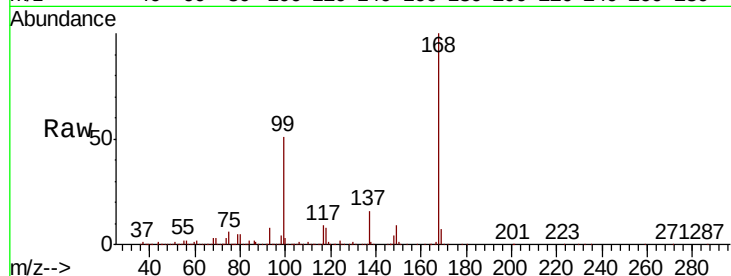
S49-0495

Tot Ion:168 Resp: 637944

Ion Ratio Lower Upper

168 100

99 51.0 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

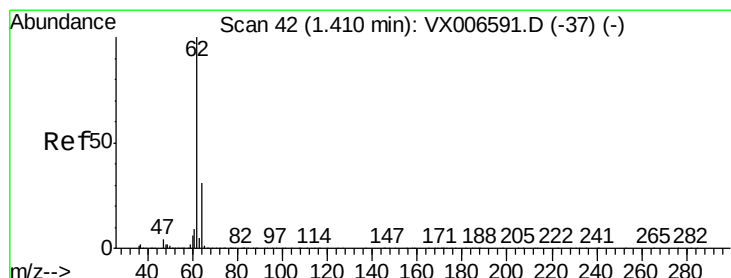
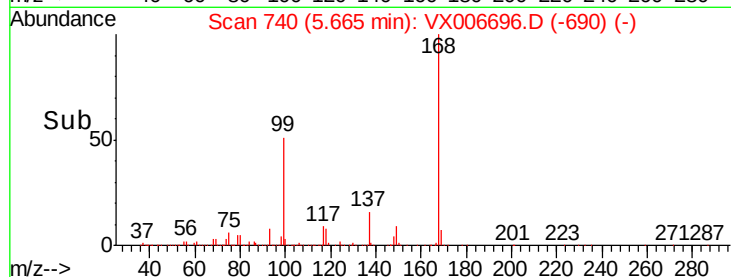
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 16.894 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006696.D

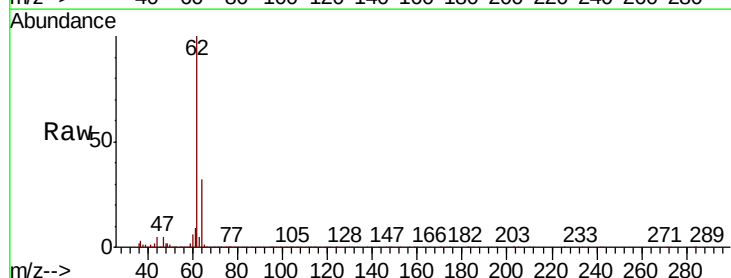
Acq: 21 Dec 2018 01:07

Tgt Ion: 62 Resp: 110939

Ion Ratio Lower Upper

62 100

64 31.8 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

120000

100000

80000

60000

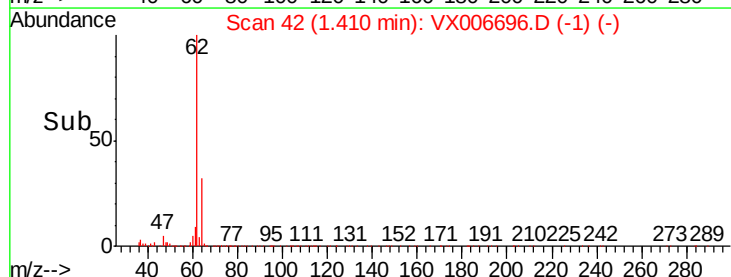
40000

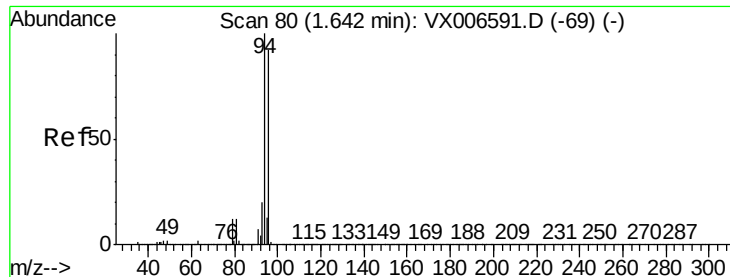
20000

0

Time-->

1.30 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

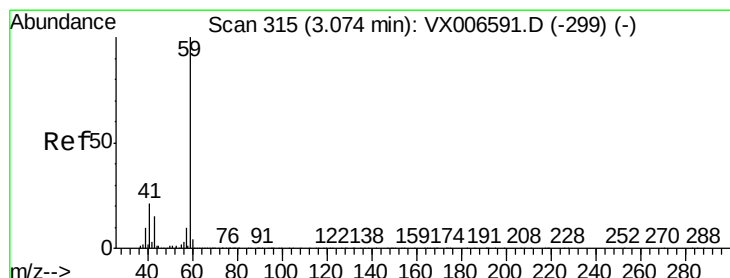
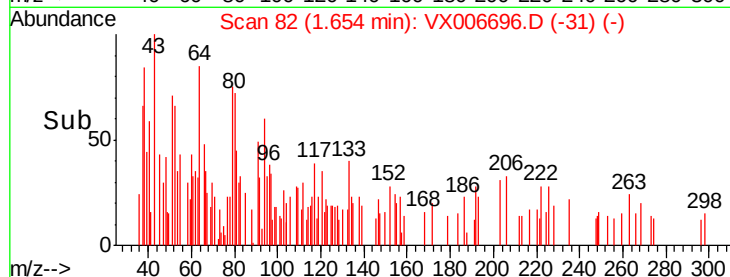
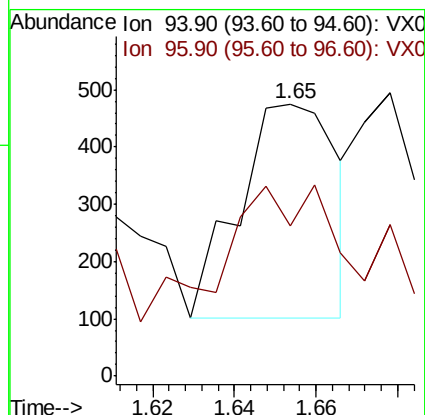
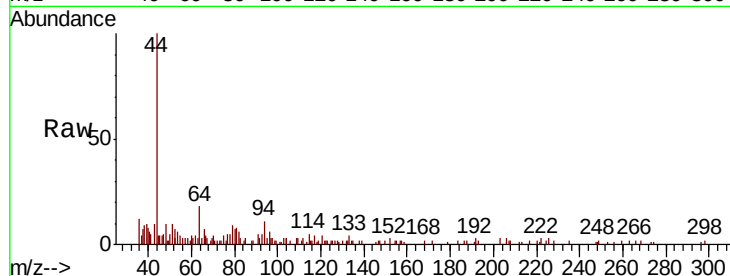
S49-0495

Tot Ion: 94 Resp: 624

Ion Ratio Lower Upper

94 100

96 28.6 73.4 110.2#



#11

Tert butyl alcohol

Concen: 3.210 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006696.D

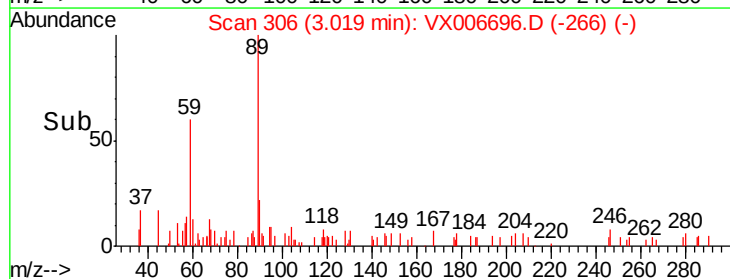
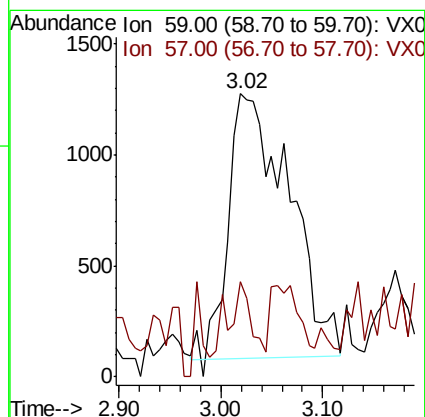
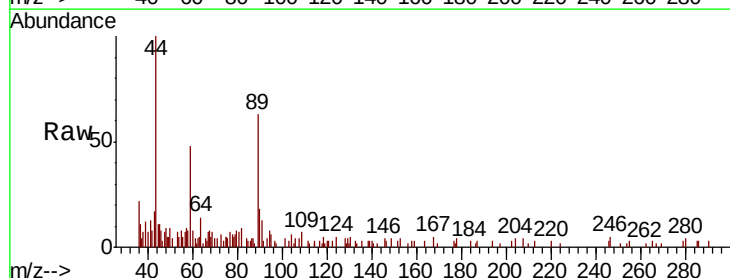
Acq: 21 Dec 2018 01:07

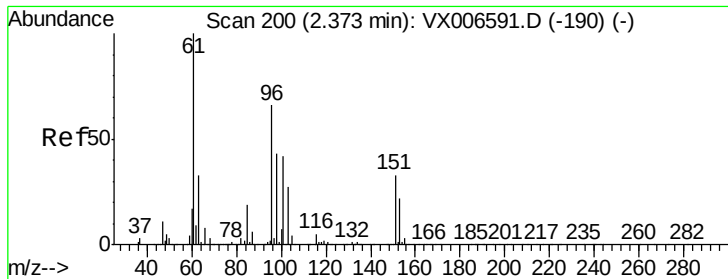
Tgt Ion: 59 Resp: 4926

Ion Ratio Lower Upper

59 100

57 12.6 8.5 12.7





#12

1,1-Dichloroethene

Concen: 0.379 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

S49-0495

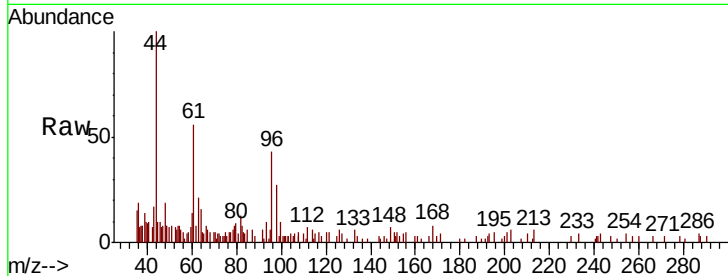
Tot Ion: 96 Resp: 2160

Ion Ratio Lower Upper

96 100

61 125.0 121.4 182.2

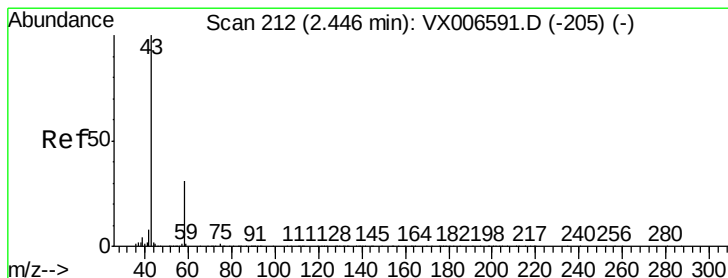
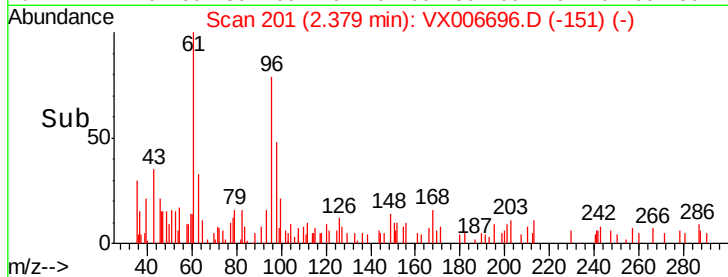
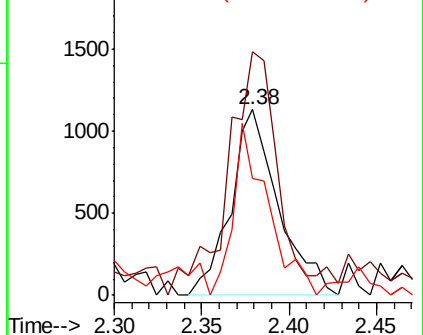
98 55.9 51.9 77.9



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



#16

Acetone

Concen: 7.045 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006696.D

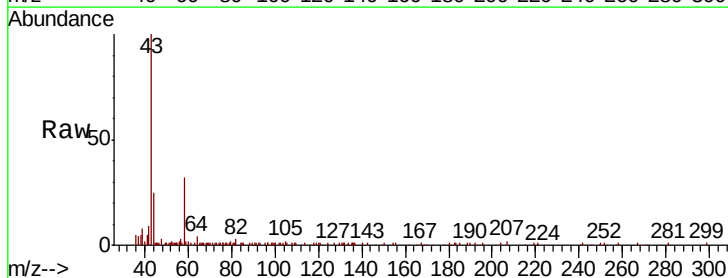
Acq: 21 Dec 2018 01:07

Tgt Ion: 43 Resp: 22255

Ion Ratio Lower Upper

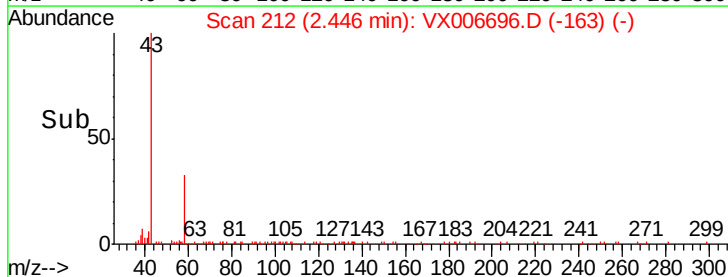
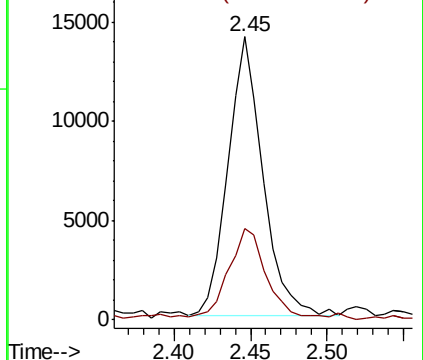
43 100

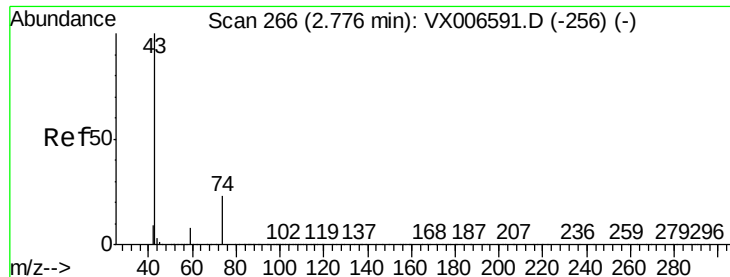
58 30.8 25.0 37.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

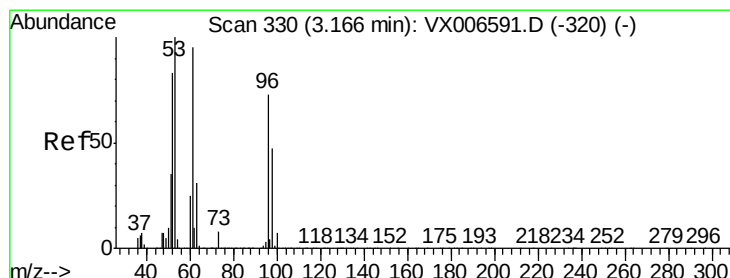
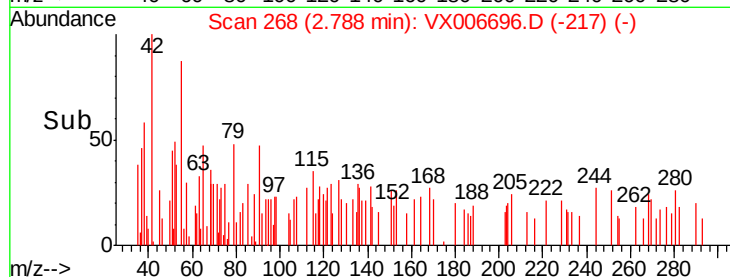
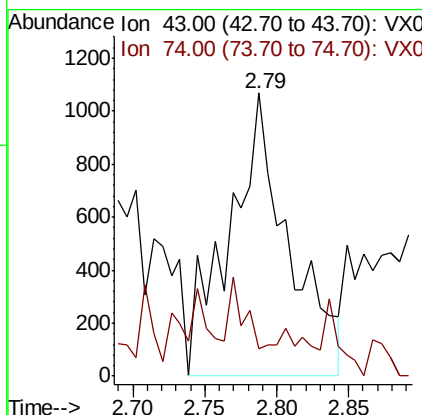
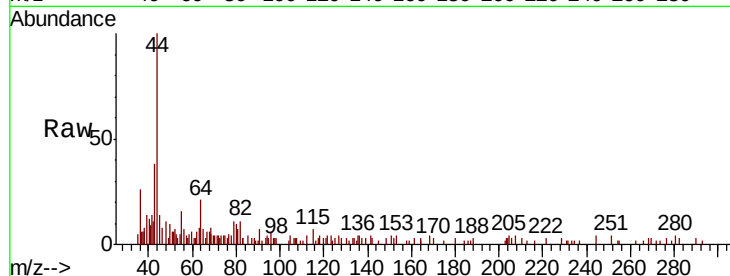




#18
Methyl Acetate
Concen: 0.331 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX006696.D
Acq: 21 Dec 2018 01:07

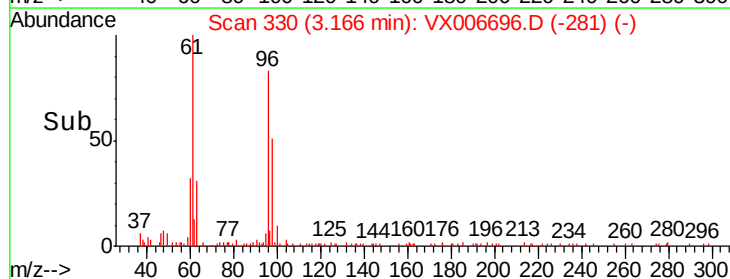
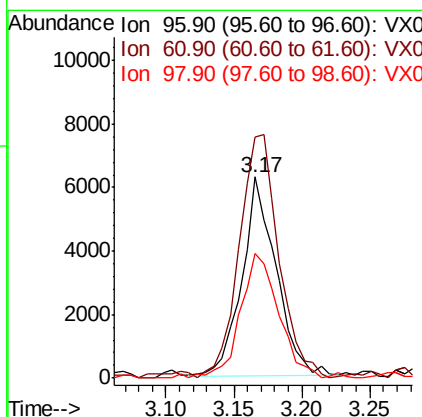
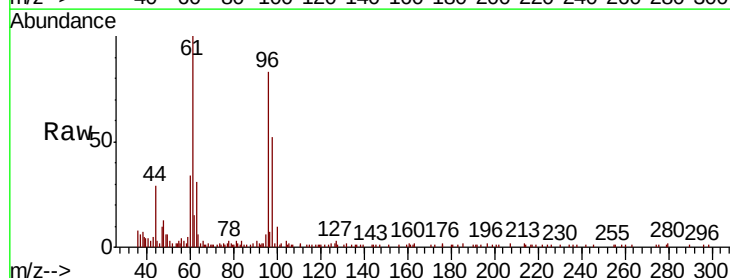
Instrument :
MSVOA_X
ClientSampleId :
S49-0495

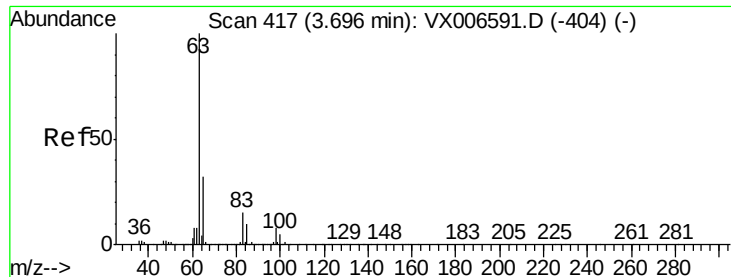
Tot Ion: 43 Resp: 3071
Ion Ratio Lower Upper
43 100
74 13.7 18.6 28.0#



#21
trans-1,2-Dichloroethene
Concen: 1.753 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX006696.D
Acq: 21 Dec 2018 01:07

Tgt Ion: 96 Resp: 11072
Ion Ratio Lower Upper
96 100
61 120.9 103.7 155.5
98 63.1 51.0 76.6





#24

1,1-Dichloroethane

Concen: 0.720 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

S49-0495

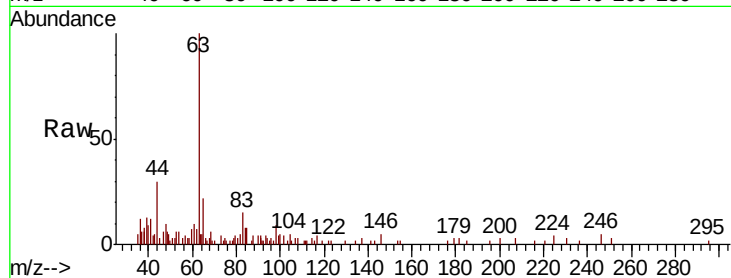
Tot Ion: 63 Resp: 7547

Ion Ratio Lower Upper

63 100

98 9.7 3.9 11.5

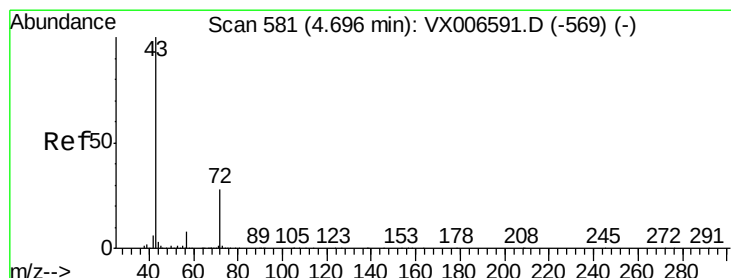
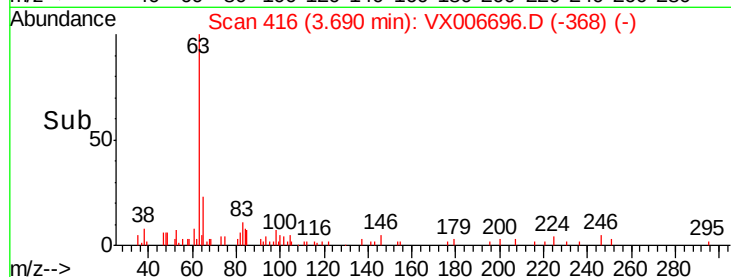
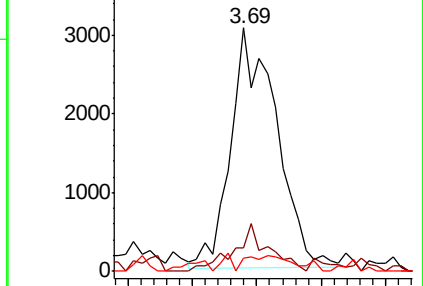
100 3.3 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.210 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX006696.D

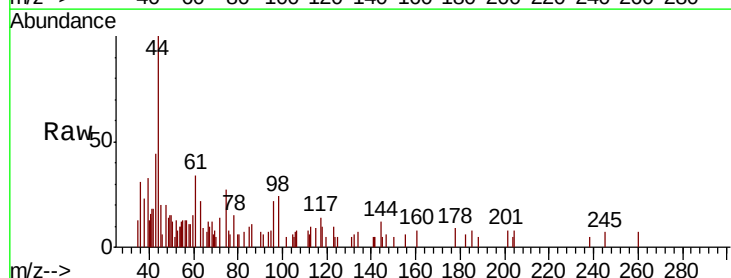
Acq: 21 Dec 2018 01:07

Tgt Ion: 43 Resp: 934

Ion Ratio Lower Upper

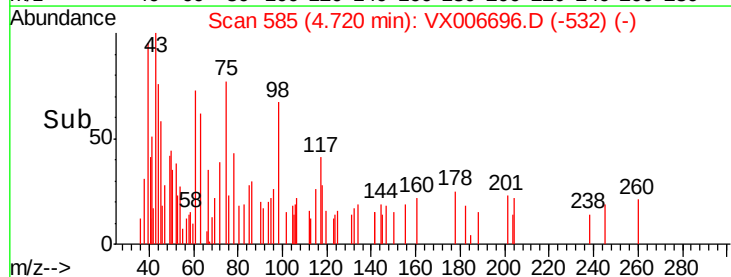
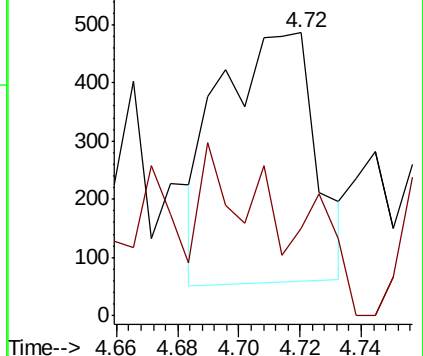
43 100

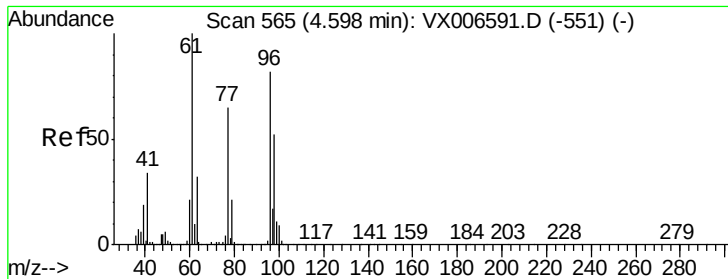
72 20.7 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



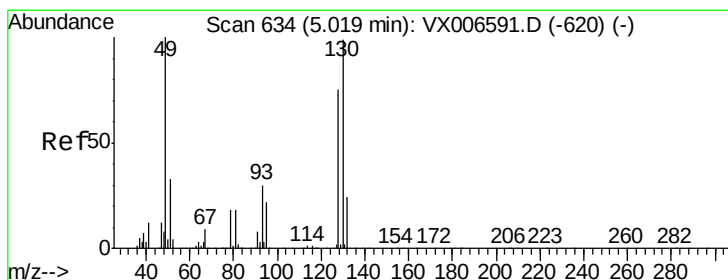
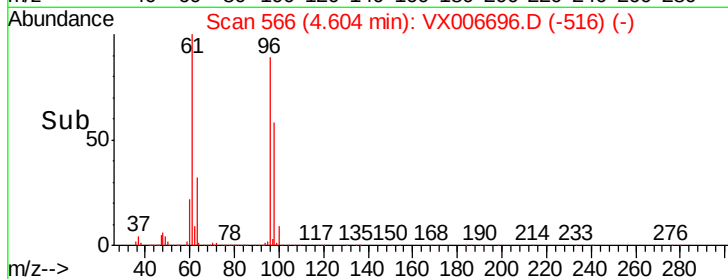
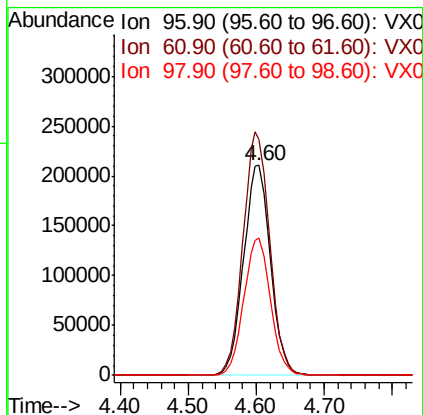
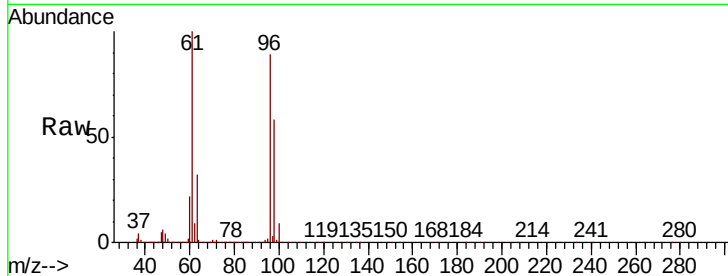


#27

cis-1,2-Dichloroethene
 Concen: 83.216 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0495

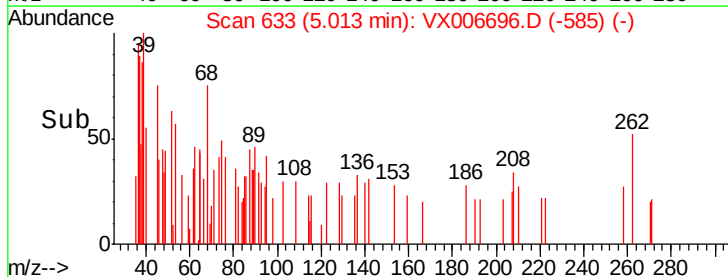
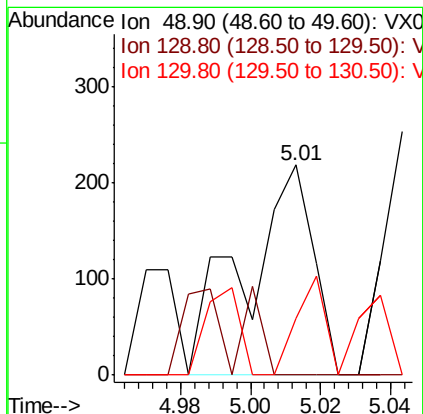
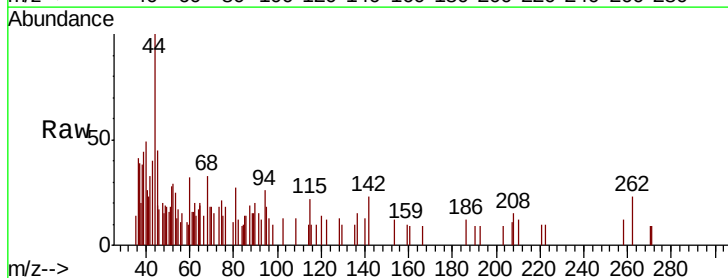
Tot Ion	Ratio	Lower	Upper
96	100		
61	114.9	0.0	258.6
98	64.7	0.0	132.0

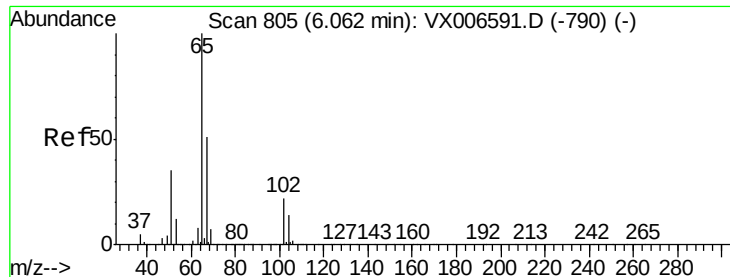


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.4
130	20.0	77.7	116.5#

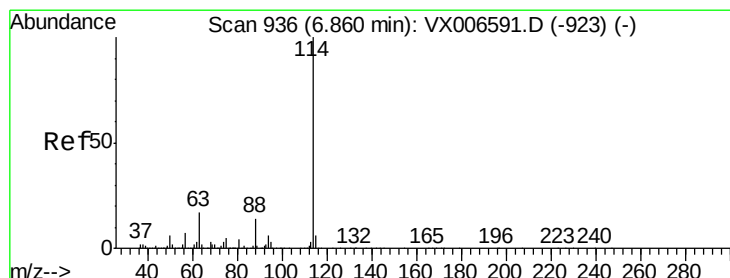
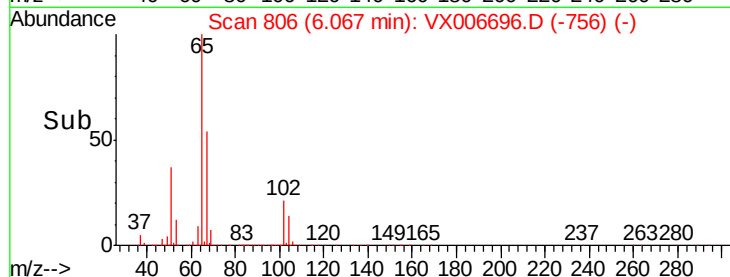
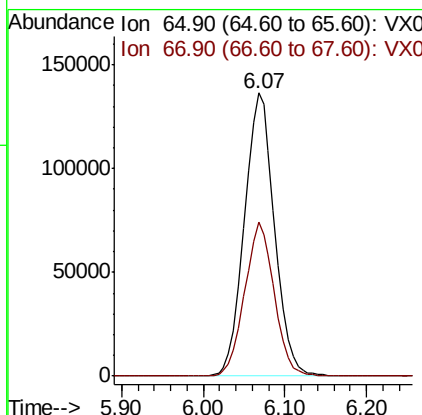
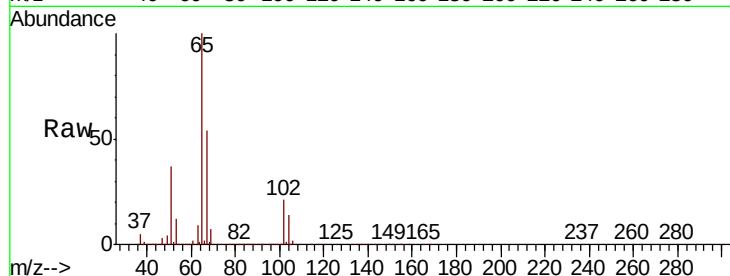




#33
 1,2-Dichloroethane-d4
 Concen: 50.745 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

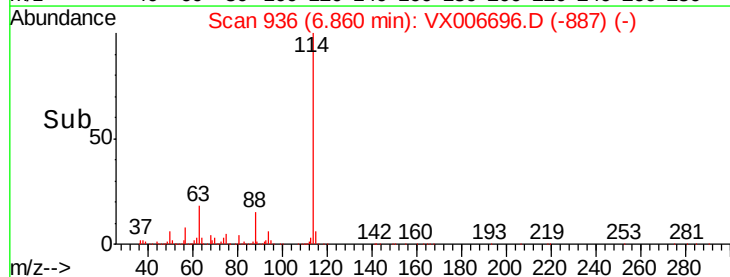
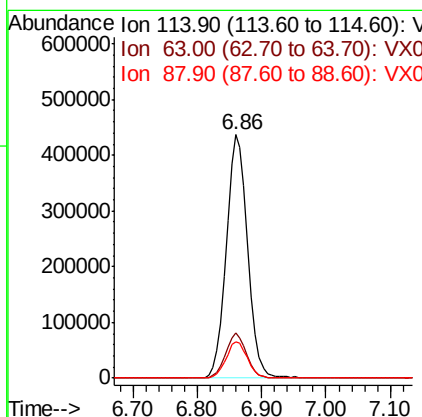
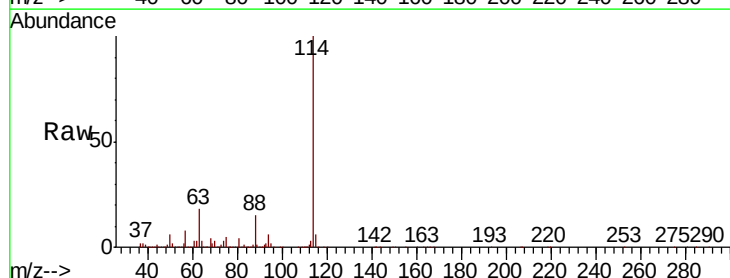
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0495

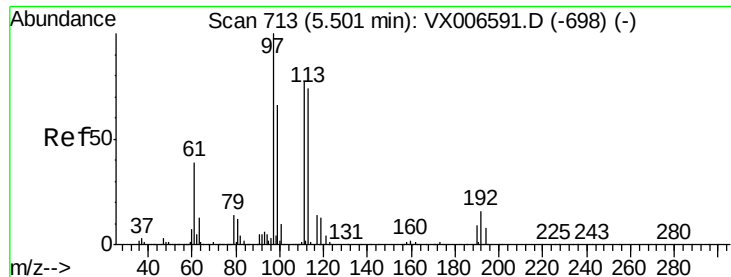
Tot Ion: 65 Resp: 348896
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

Tgt Ion: 114 Resp: 1016039
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 34.8
 88 14.8 0.0 28.8

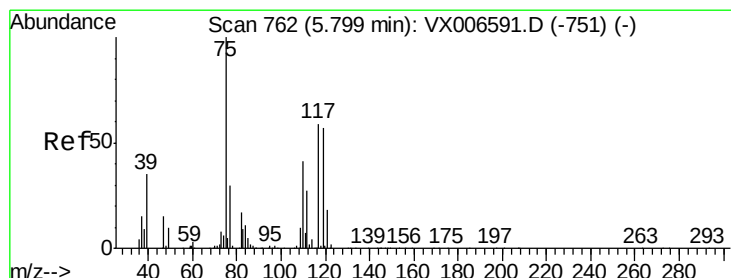
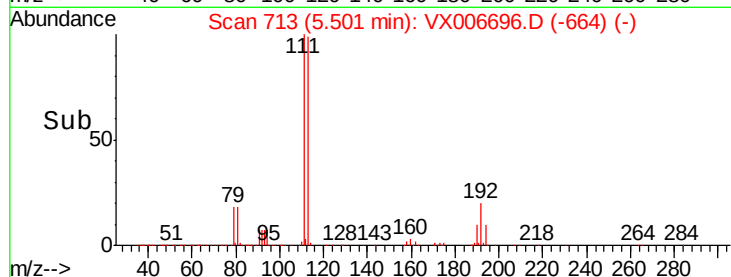
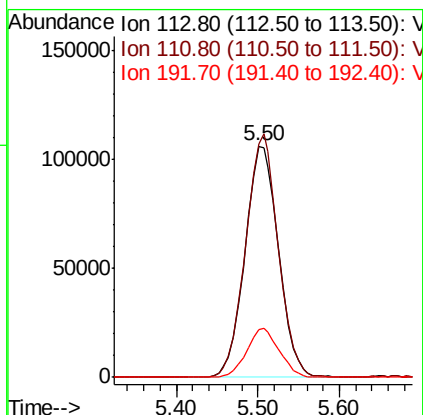
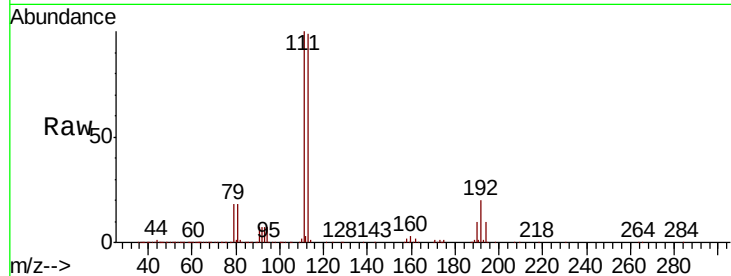




#35
 Dibromofluoromethane
 Concen: 47.320 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

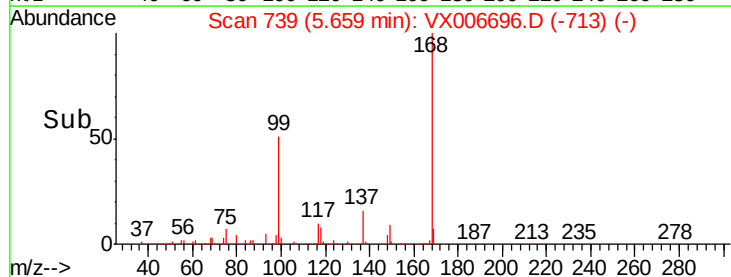
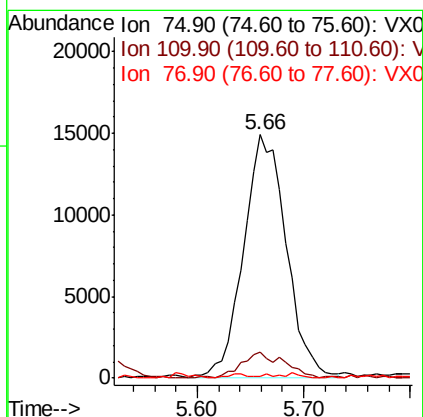
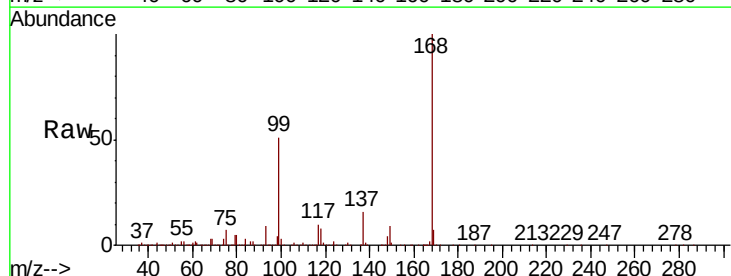
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0495

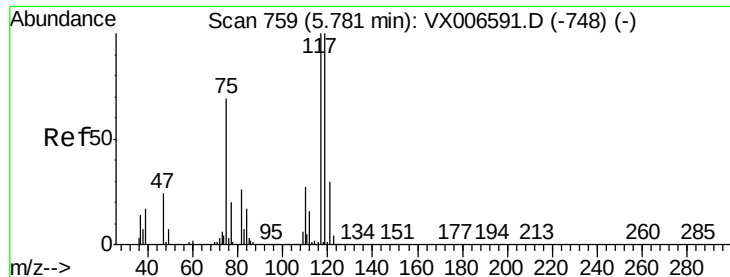
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.6	122.4
192	20.6	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.992 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	20.2	60.5#
77	0.4	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 7.430 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampled :

S49-0495

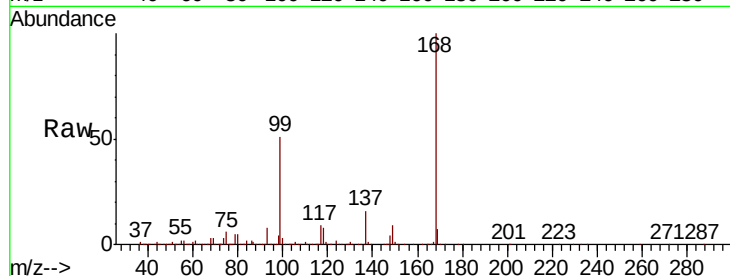
Tot Ion:117 Resp: 60760

Ion Ratio Lower Upper

117 100

119 5.9 79.4 119.2#

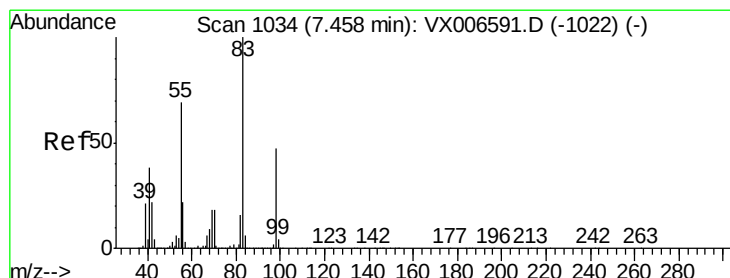
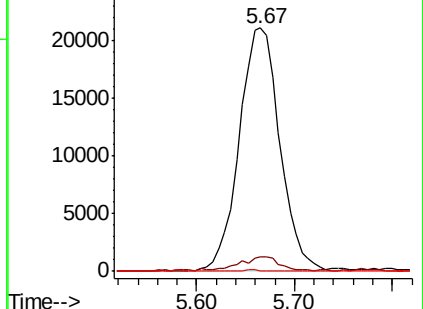
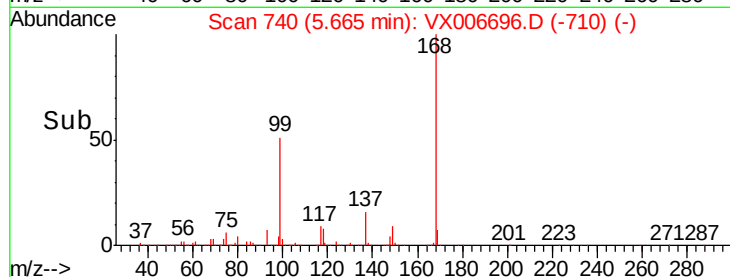
121 0.3 24.0 36.0#



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



#39

Methylcyclohexane

Concen: 2.108 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.24 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

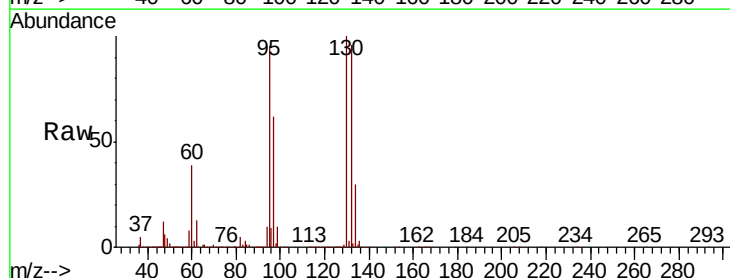
Tgt Ion: 83 Resp: 23350

Ion Ratio Lower Upper

83 100

55 0.8 54.9 82.3#

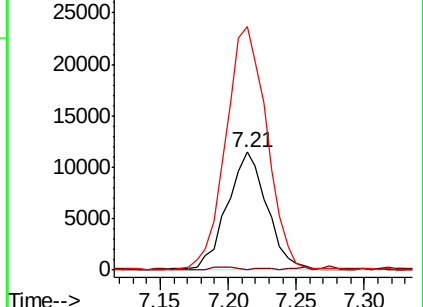
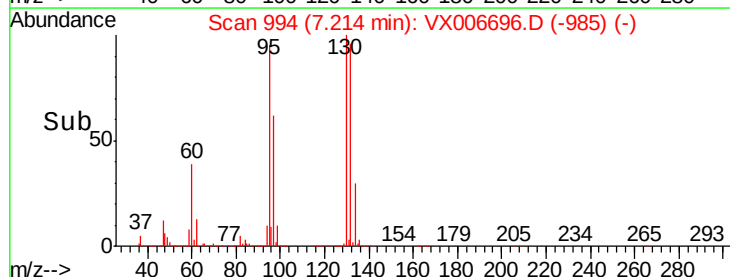
98 205.4 37.9 56.9#

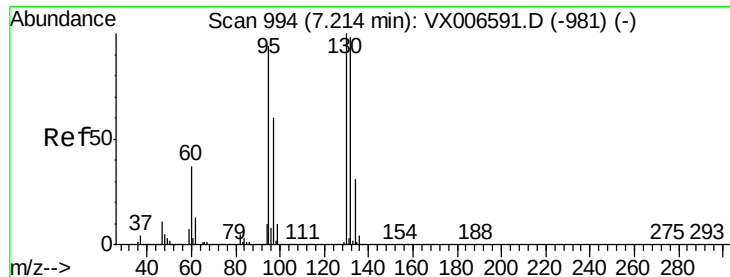


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 275.020 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

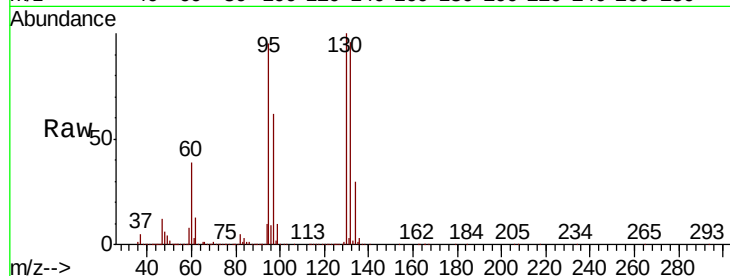
S49-0495

Tot Ion:130 Resp: 2129216

Ion Ratio Lower Upper

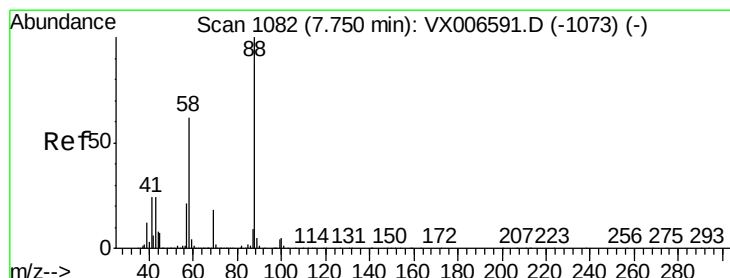
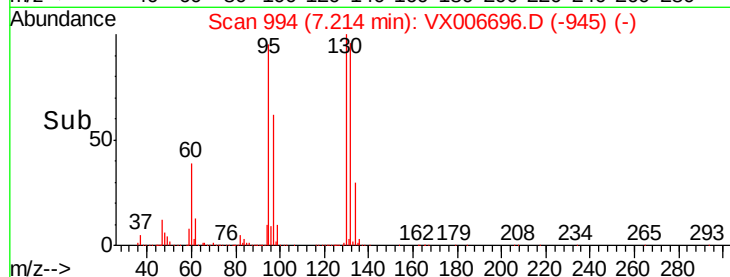
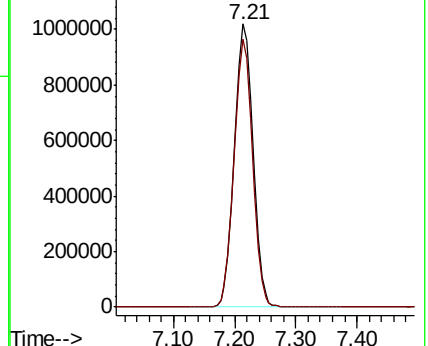
130 100

95 94.7 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

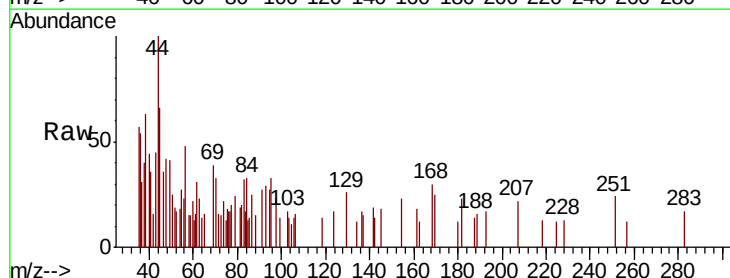
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 475.0 22.2 33.4#

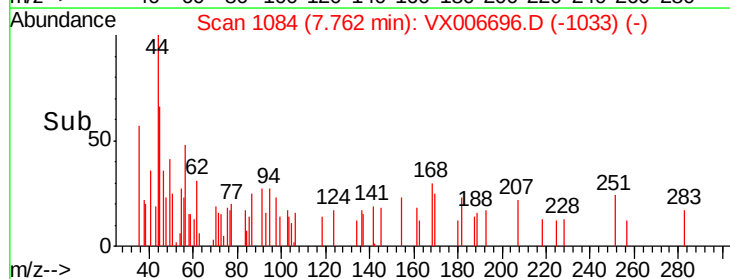
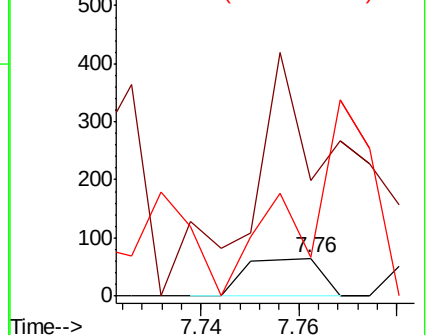
58 502.9 51.0 76.4#

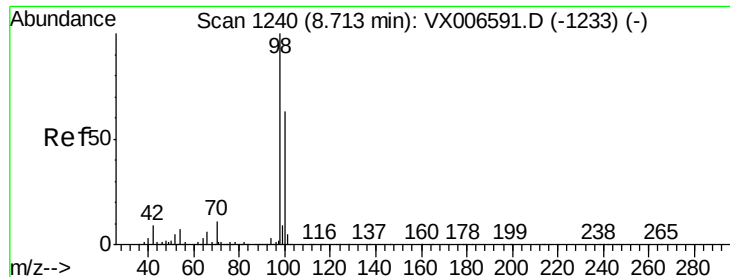


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.705 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

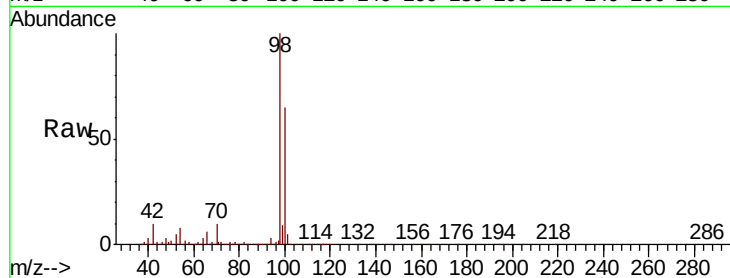
S49-0495

Tot Ion: 98 Resp: 1204023

Ion Ratio Lower Upper

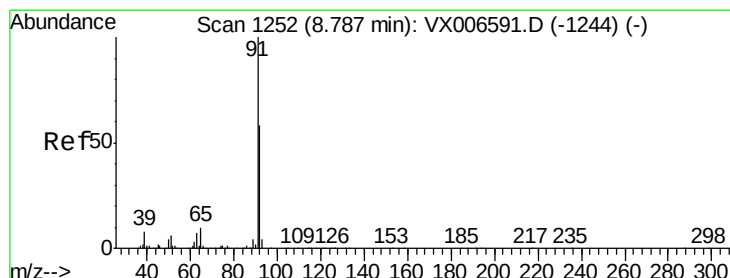
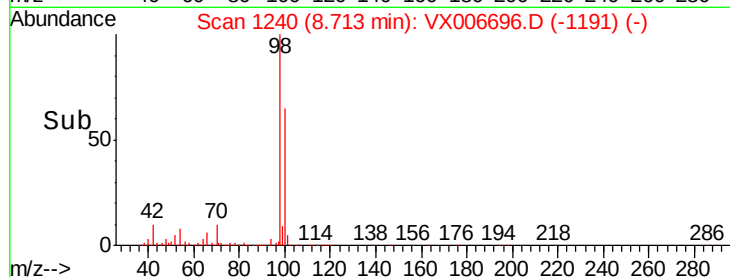
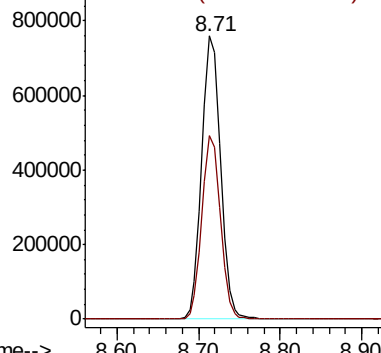
98 100

100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 0.390 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006696.D

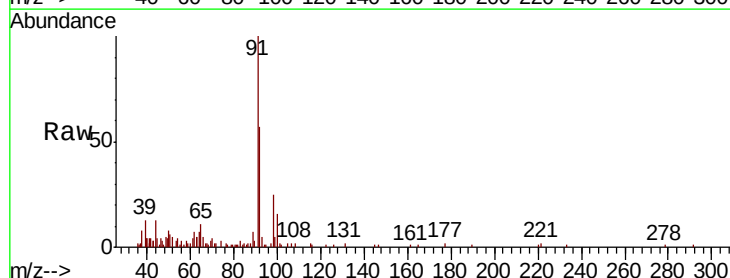
Acq: 21 Dec 2018 01:07

Tgt Ion: 92 Resp: 6449

Ion Ratio Lower Upper

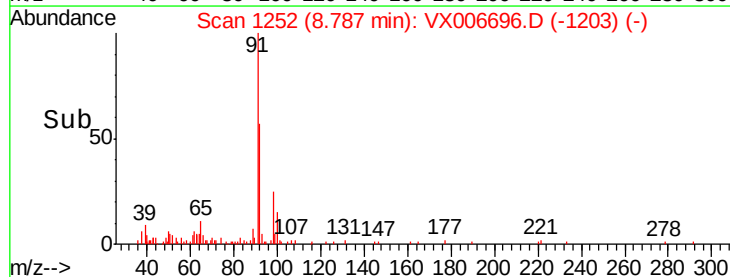
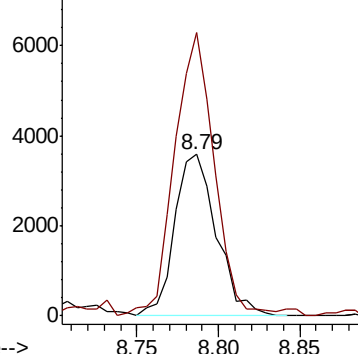
92 100

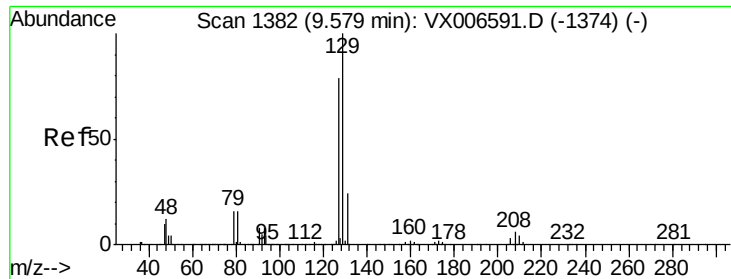
91 159.7 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#60

Dibromochloromethane

Concen: 3.919 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

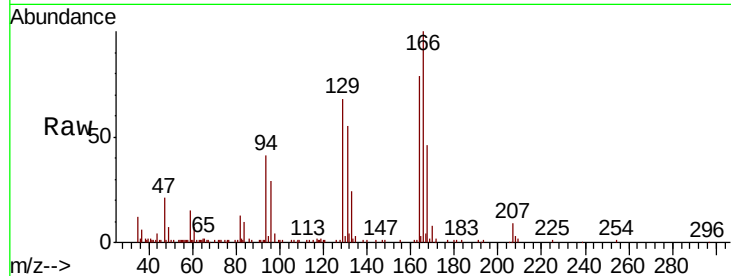
S49-0495

Tot Ion:129 Resp: 11832

Ion Ratio Lower Upper

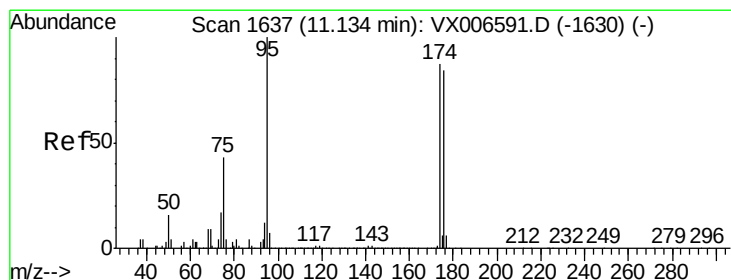
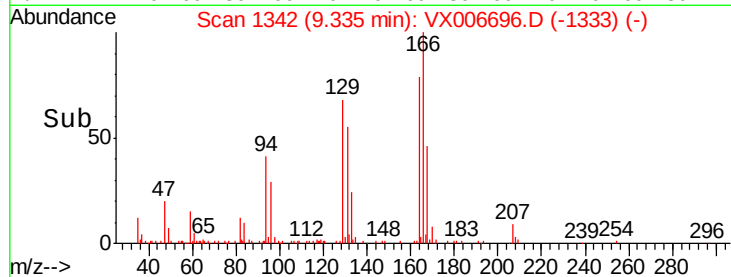
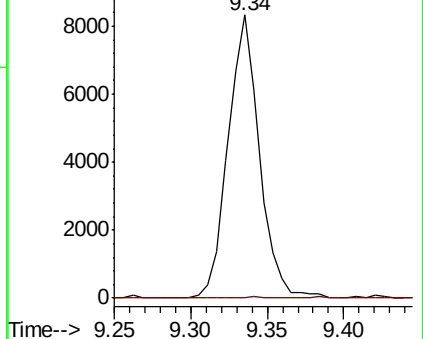
129 100

127 0.2 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.367 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

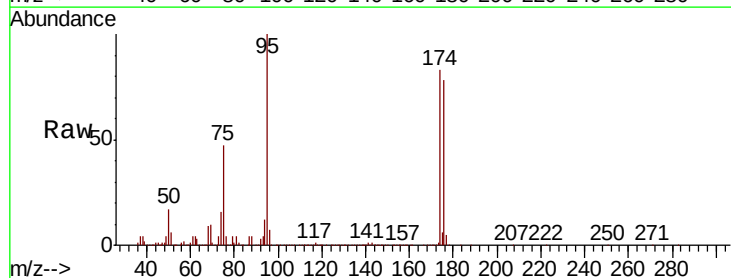
Tgt Ion: 95 Resp: 420224

Ion Ratio Lower Upper

95 100

174 89.2 0.0 182.2

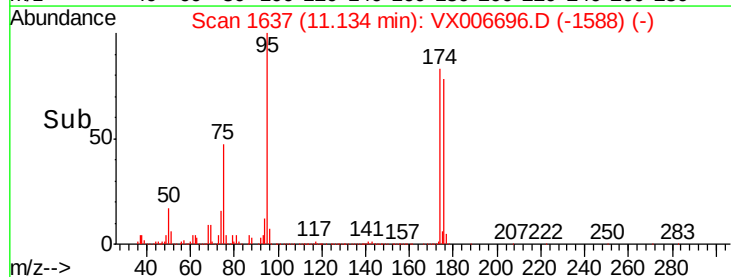
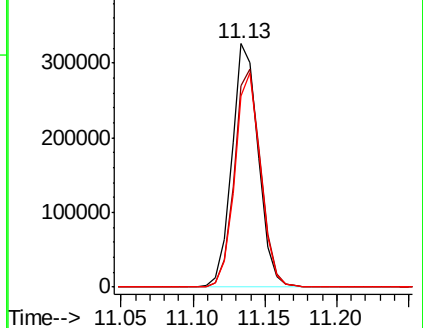
176 85.8 0.0 178.8

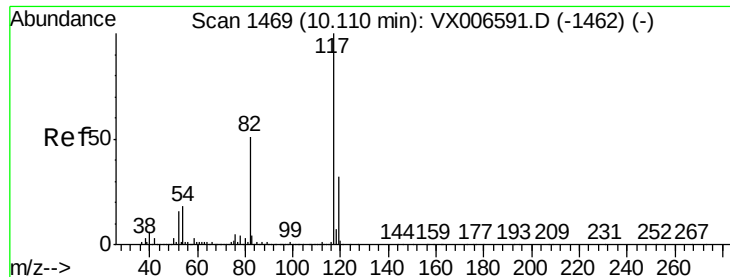


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

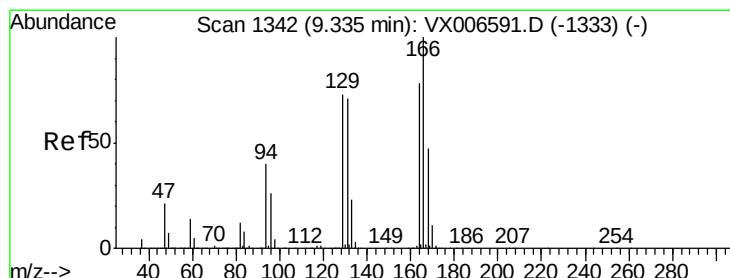
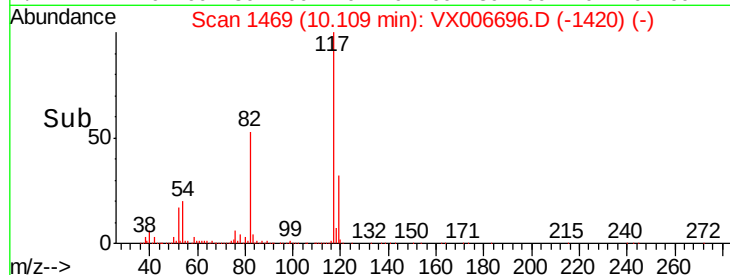
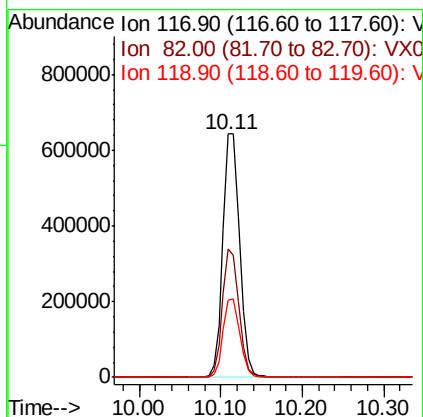
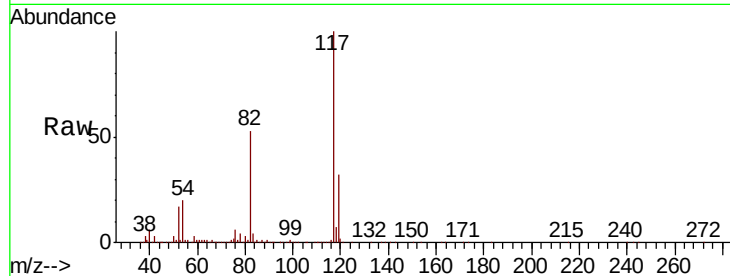




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX006696.D
Acq: 21 Dec 2018 01:07

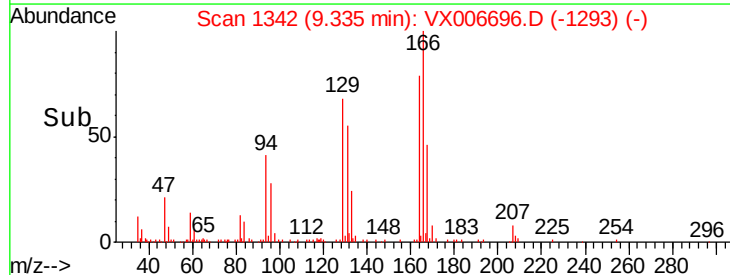
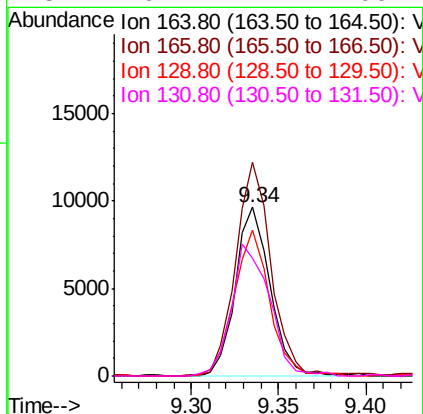
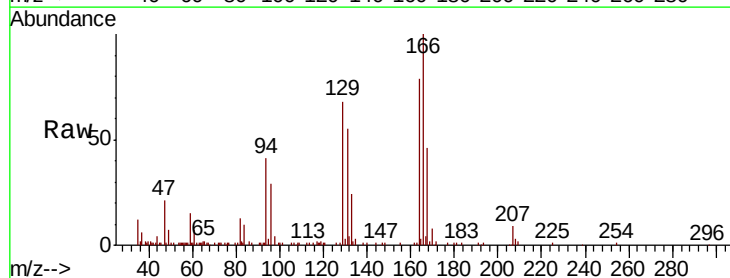
Instrument :
MSVOA_X
ClientSampleId :
S49-0495

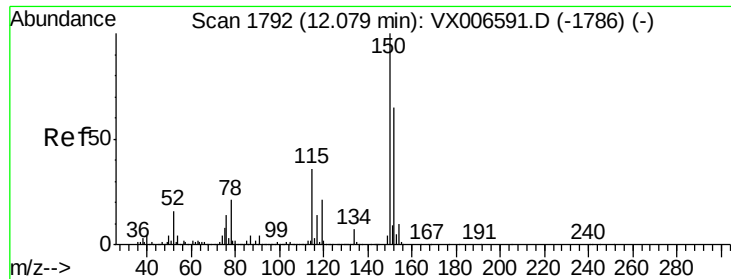
Tot Ion:117 Resp: 925047
Ion Ratio Lower Upper
117 100
82 52.9 41.0 61.6
119 31.6 25.4 38.0



#64
Tetrachloroethene
Concen: 1.826 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006696.D
Acq: 21 Dec 2018 01:07

Tgt Ion:164 Resp: 13373
Ion Ratio Lower Upper
164 100
166 125.8 102.5 153.7
129 85.6 75.1 112.7
131 70.1 72.7 109.1#

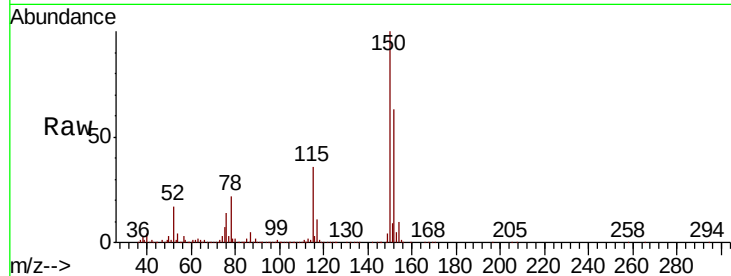




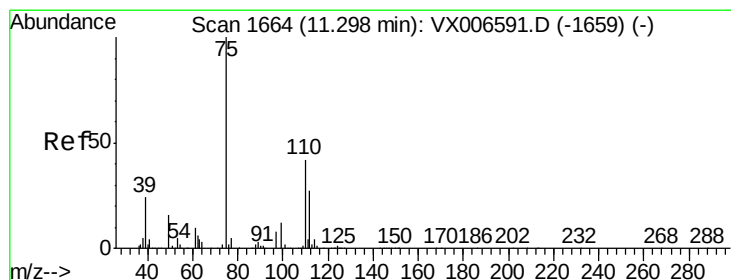
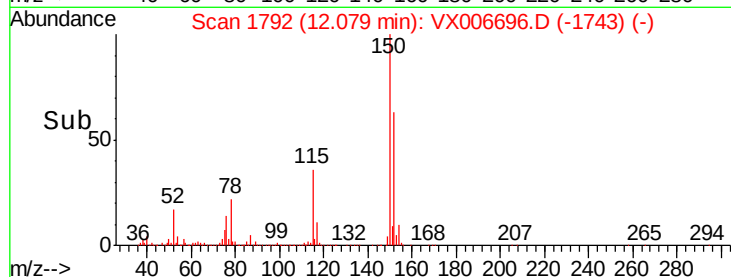
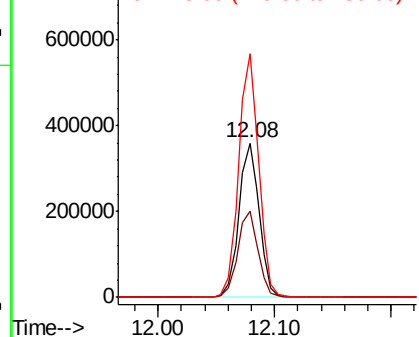
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0495

Tot Ion:152 Resp: 436722
 Ion Ratio Lower Upper
 152 100
 115 56.0 39.1 117.2
 150 155.9 0.0 344.8

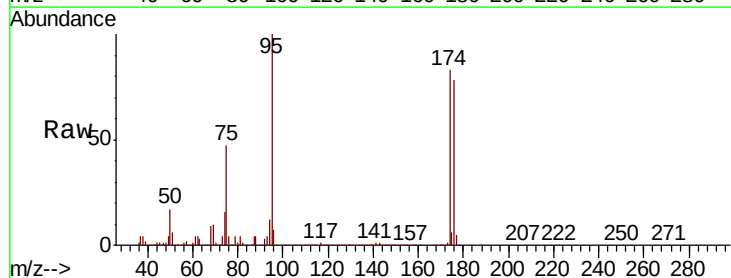


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

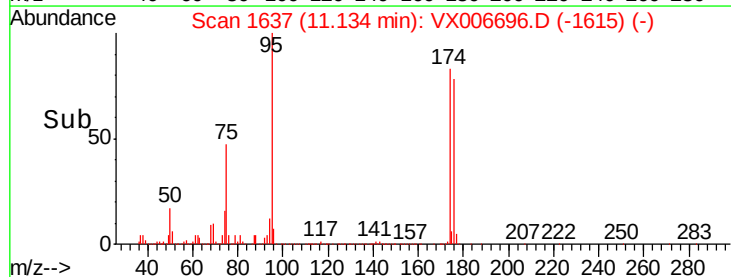
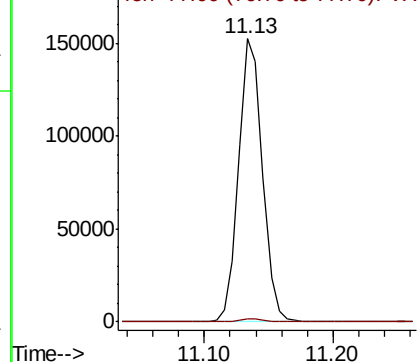


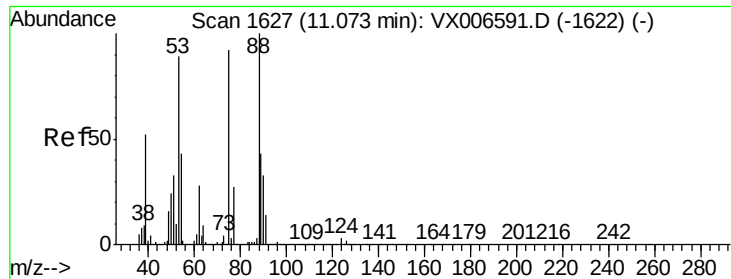
#76
 1,2,3-Trichloropropane
 Concen: 24.289 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006696.D
 Acq: 21 Dec 2018 01:07

Tgt Ion: 75 Resp: 197135
 Ion Ratio Lower Upper
 75 100
 77 1.5 18.5 55.5#



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: 71.895 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006696.D

Acq: 21 Dec 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

S49-0495

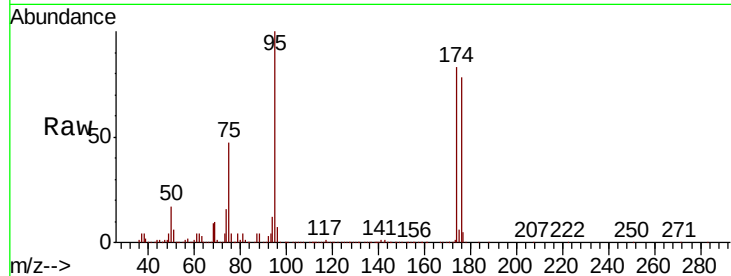
Tot Ion: 75 Resp: 197135

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

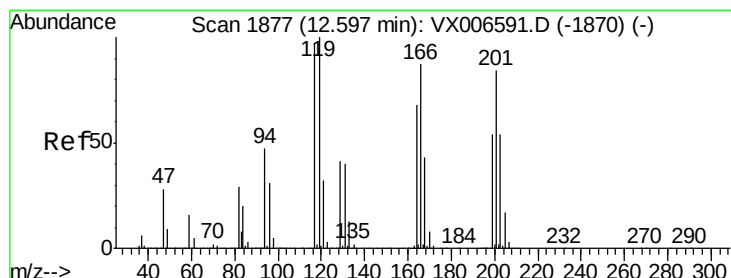
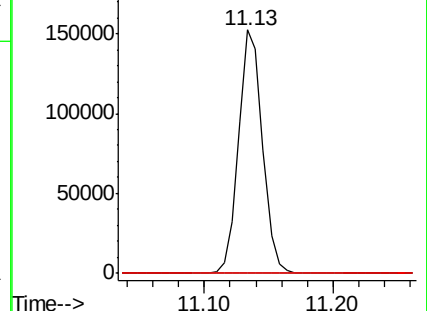
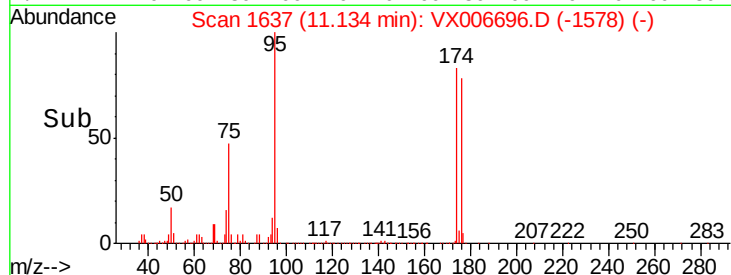
89 0.0 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.310 ug/l

RT: 12.53 min Scan# 1866

Delta R.T. -0.07 min

Lab File: VX006696.D

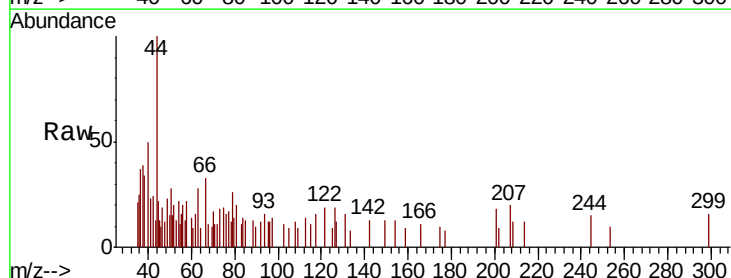
Acq: 21 Dec 2018 01:07

Tgt Ion: 117 Resp: 76

Ion Ratio Lower Upper

117 100

201 55.3 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

