

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006724.D
 Acq On : 21 Dec 2018 15:29
 Operator : JC/MD
 Sample : J6514-02DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0495DL

Quant Time: Dec 22 04:04:04 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	644470	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	999686	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	897765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	424024	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	341714	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
35) Dibromofluoromethane	5.51	113	302455	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	
50) Toluene-d8	8.71	98	1159644	48.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.32%	
62) 4-Bromofluorobenzene	11.14	95	413410	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	

Target Compounds

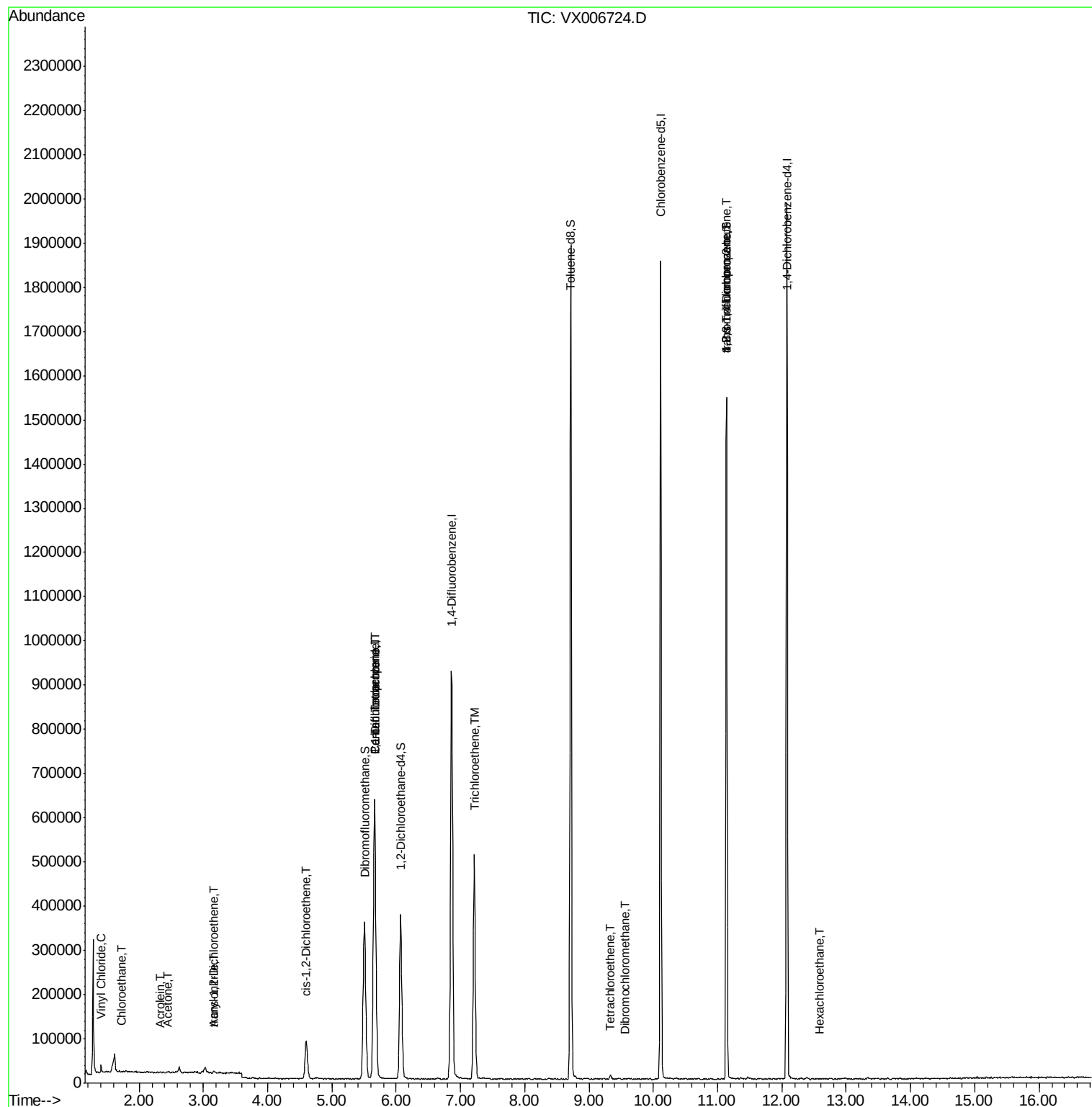
					Qvalue	
4) Vinyl Chloride	1.41	62	10686	1.611	ug/l	98
5) Bromomethane	1.65	94	1581	Below Cal	#	64
6) Chloroethane	1.73	64	1337	0.291	ug/l #	42
13) Acrolein	2.32	56	273	0.261	ug/l #	29
15) Acrylonitrile	3.16	53	741	0.215	ug/l #	72
16) Acetone	2.45	43	3874	1.214	ug/l #	84
21) trans-1,2-Dichloroethene	3.17	96	1901	0.298	ug/l #	74
27) cis-1,2-Dichloroethene	4.60	96	59484	8.450	ug/l	91
28) Bromochloromethane	5.03	49	387	Below Cal	#	25
36) 1,1-Dichloropropene	5.67	75	42424	5.124	ug/l #	50
38) Carbon Tetrachloride	5.66	117	59604	7.407	ug/l #	14
44) Trichloroethene	7.21	130	207402	27.227	ug/l	98
49) 1,4-Dioxane	7.77	88	183	Below Cal	#	42
60) Dibromochloromethane	9.57	129	130	2.342	ug/l	99
64) Tetrachloroethene	9.34	164	2016	0.284	ug/l #	72
76) 1,2,3-Trichloropropane	11.14	75	189621	24.063	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	189621	71.265	ug/l #	10
90) Hexachloroethane	12.58	117	25	3.299	ug/l #	6

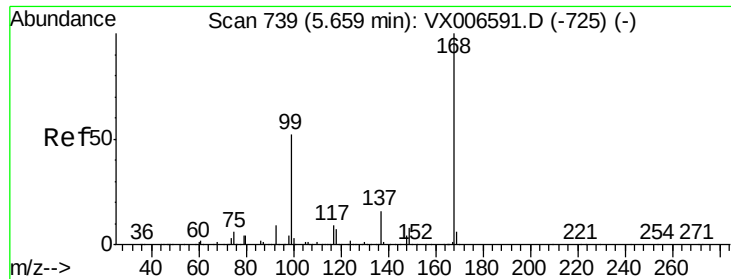
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006724.D

Acq: 21 Dec 2018 15:29

Instrument :

MSVOA_X

ClientSampleId :

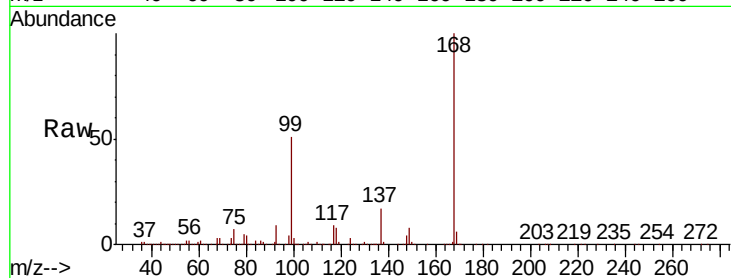
S49-0495DL

Tot Ion:168 Resp: 644470

Ion Ratio Lower Upper

168 100

99 50.6 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

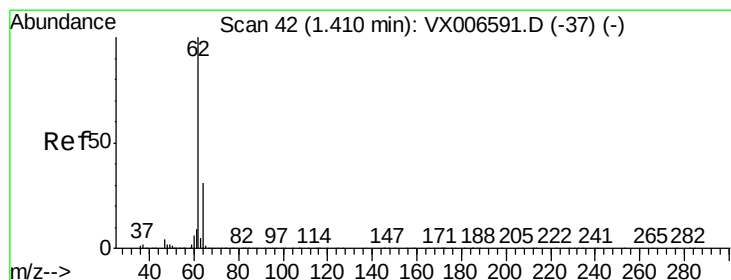
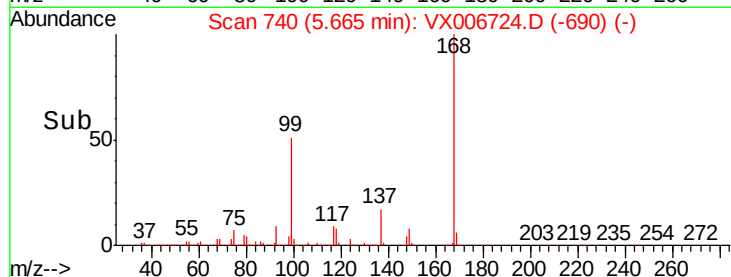
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.611 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006724.D

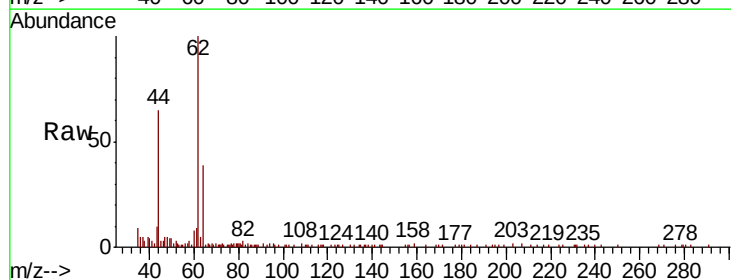
Acq: 21 Dec 2018 15:29

Tgt Ion: 62 Resp: 10686

Ion Ratio Lower Upper

62 100

64 32.5 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

10000

8000

6000

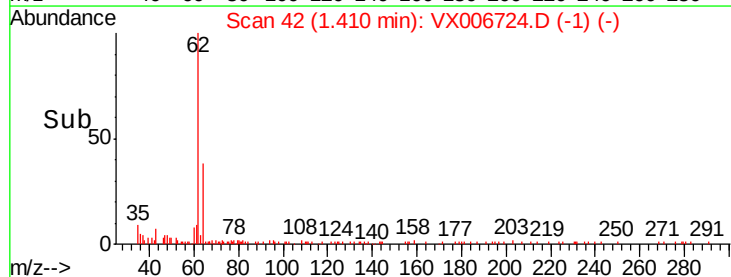
4000

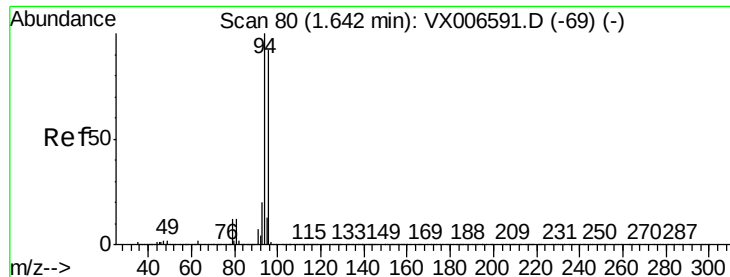
2000

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

Instrument :

MSVOA_X

ClientSampled :

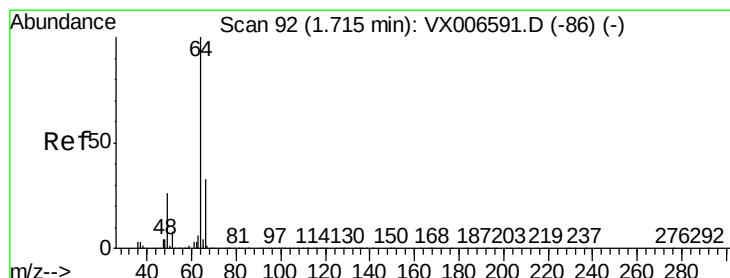
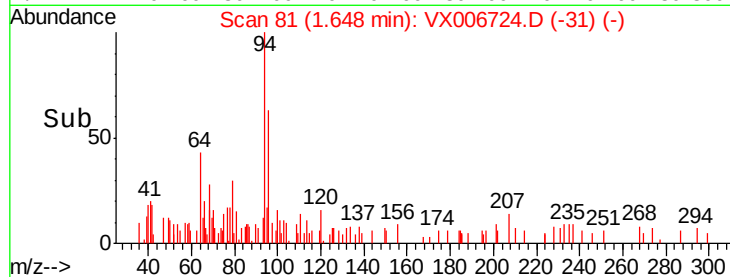
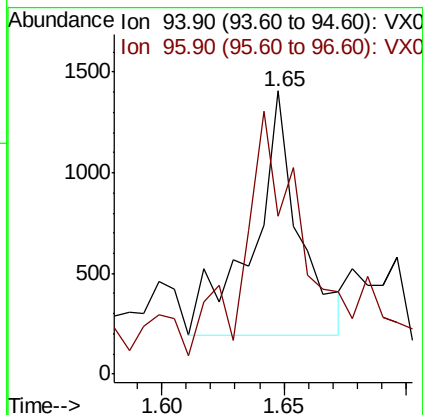
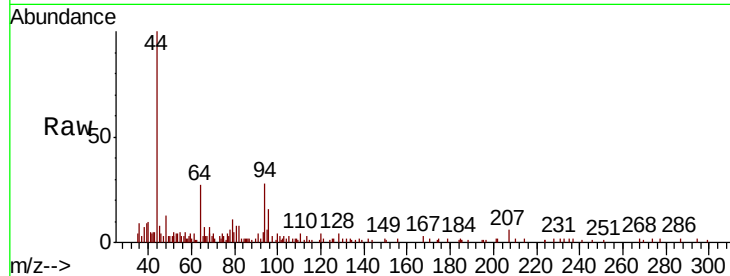
S49-0495DL

Tot Ion: 94 Resp: 1581

Ion Ratio Lower Upper

94 100

96 57.7 73.4 110.2#



#6

Chloroethane

Concen: 0.291 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX006724.D

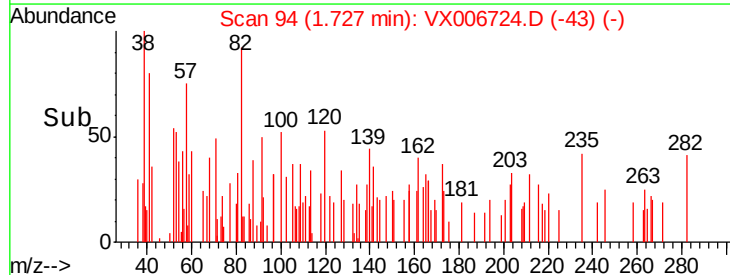
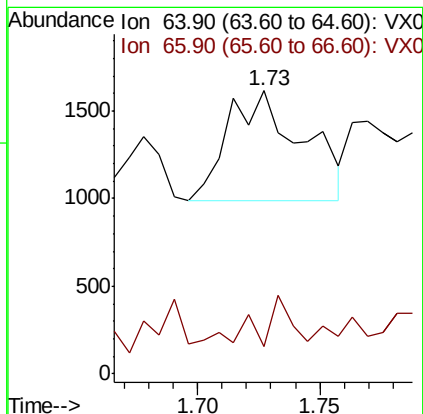
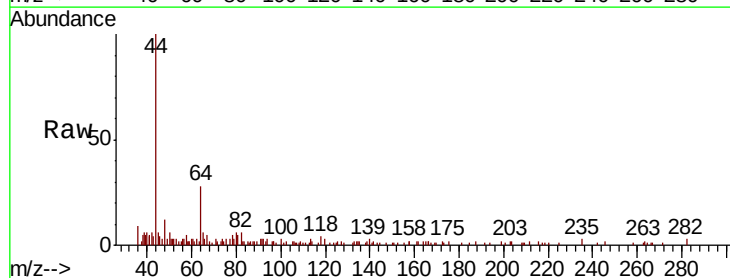
Acq: 21 Dec 2018 15:29

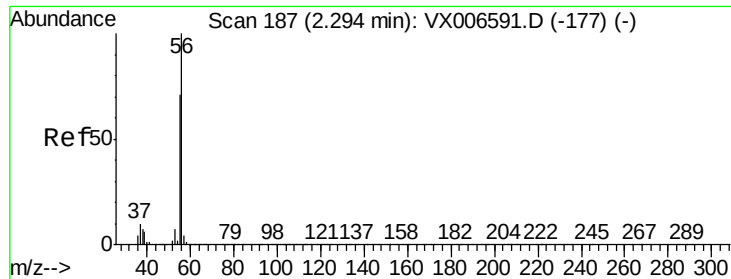
Tgt Ion: 64 Resp: 1337

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#





#13

Acrolein

Concen: 0.261 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

Instrument :

MSVOA_X

ClientSampled :

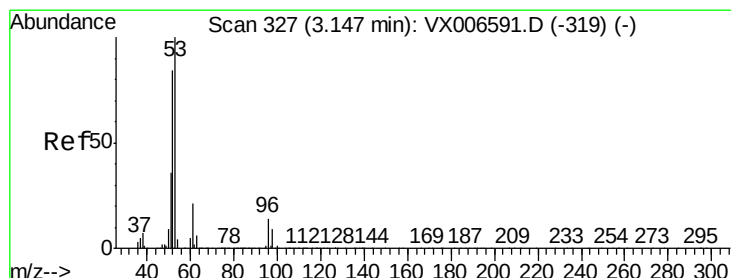
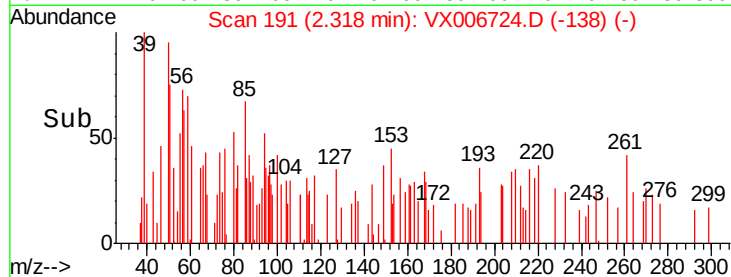
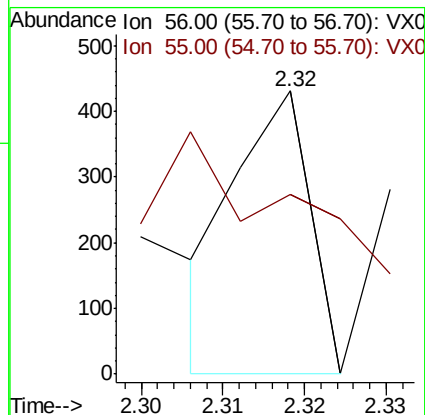
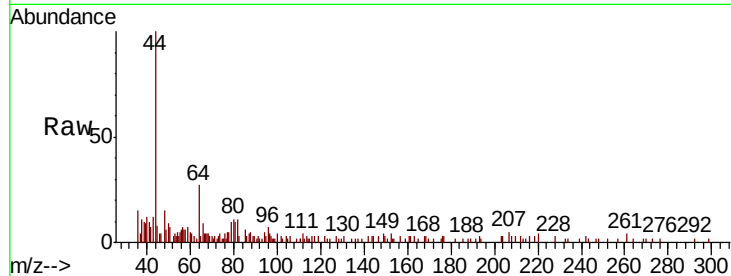
S49-0495DL

Tot Ion: 56 Resp: 273

Ion Ratio Lower Upper

56 100

55 132.2 58.2 87.4#



#15

Acrylonitrile

Concen: 0.215 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

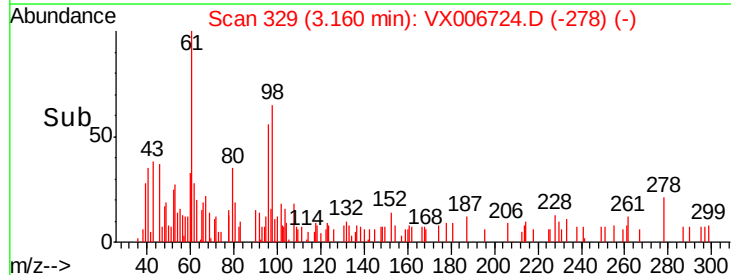
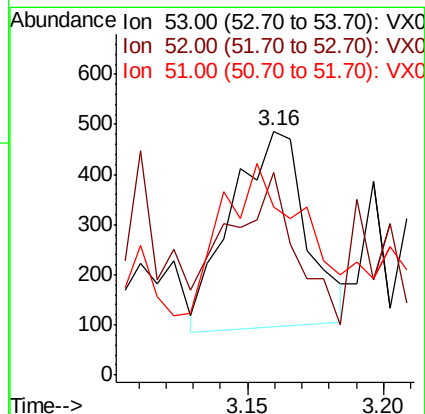
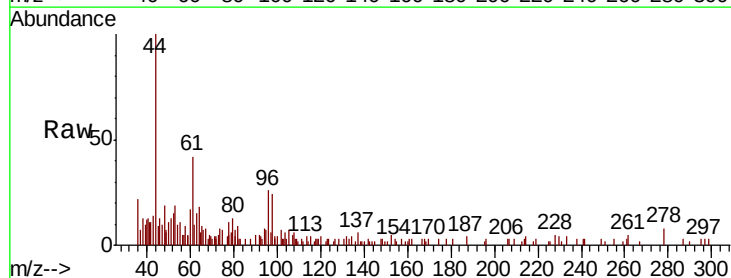
Tgt Ion: 53 Resp: 741

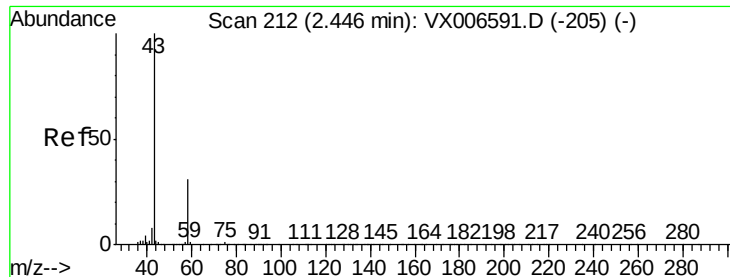
Ion Ratio Lower Upper

53 100

52 78.3 66.0 99.0

51 83.5 28.6 42.8#





#16

Acetone

Concen: 1.214 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

Instrument :

MSVOA_X

ClientSampleID :

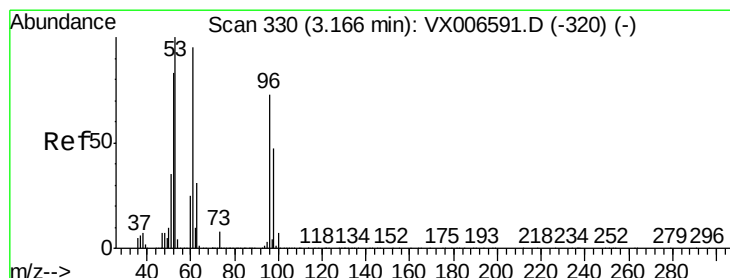
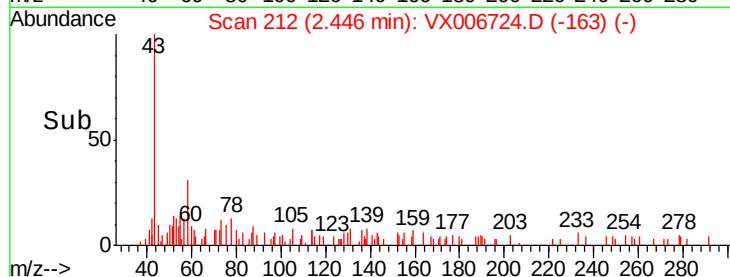
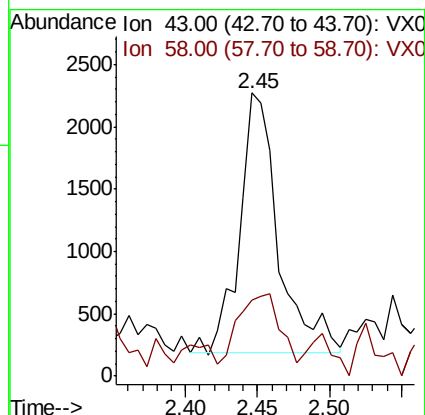
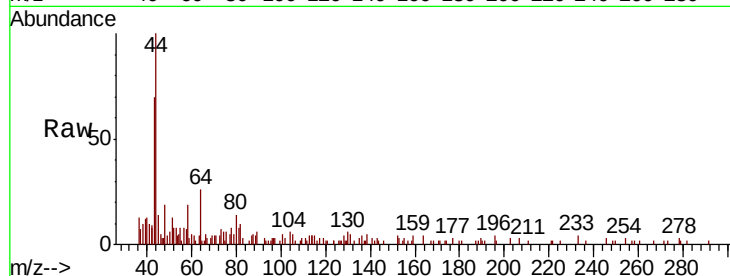
S49-0495DL

Tot Ion: 43 Resp: 3874

Ion Ratio Lower Upper

43 100

58 22.2 25.0 37.6#



#21

trans-1,2-Dichloroethene

Concen: 0.298 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

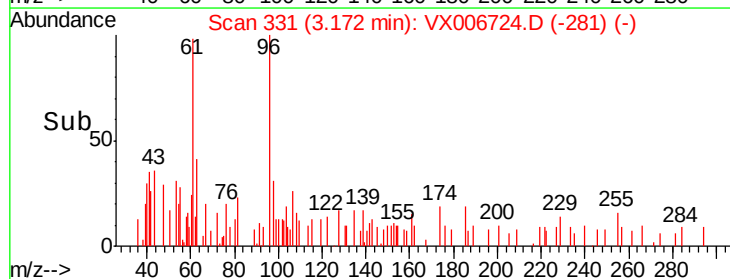
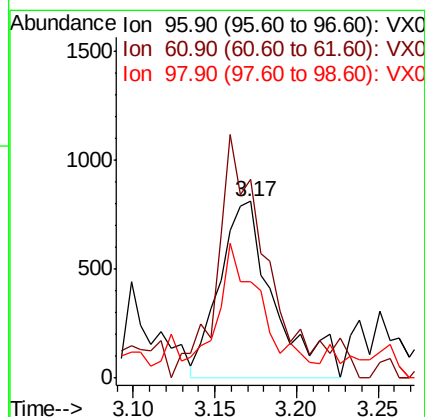
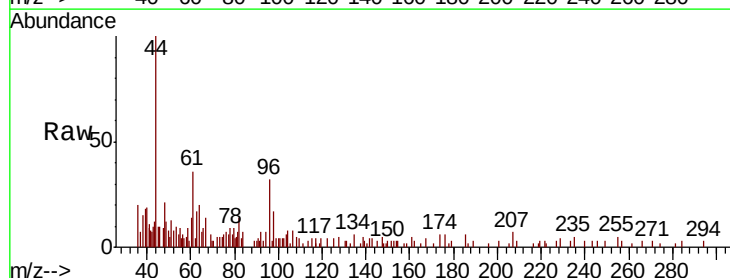
Tgt Ion: 96 Resp: 1901

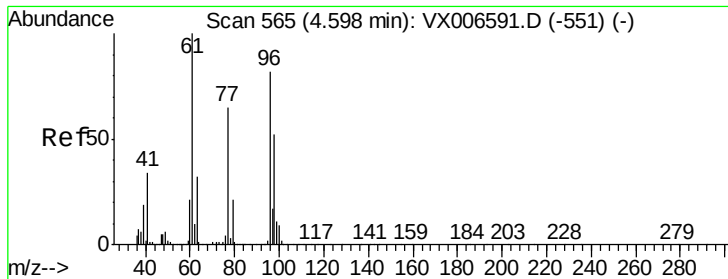
Ion Ratio Lower Upper

96 100

61 98.3 103.7 155.5#

98 45.7 51.0 76.6#



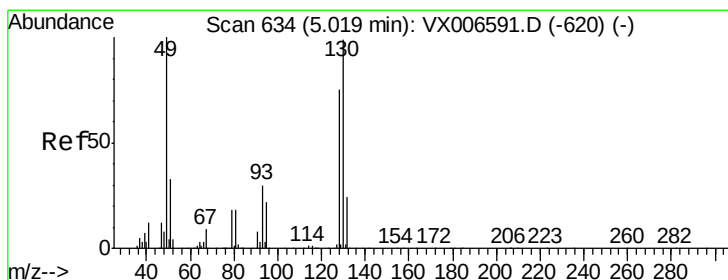
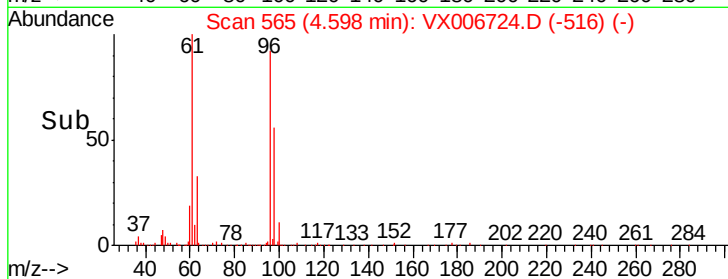
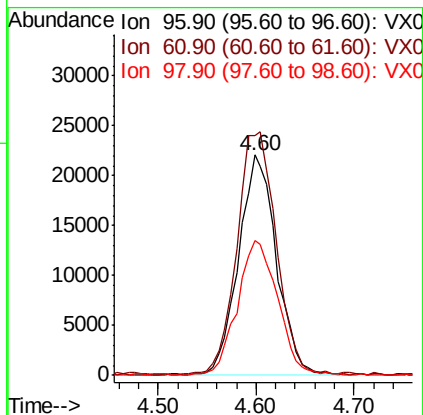
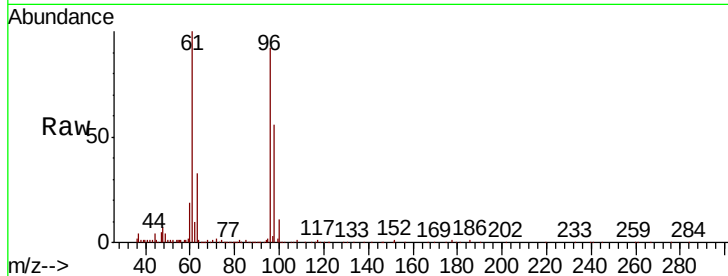


#27

cis-1,2-Dichloroethene
Concen: 8.450 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

Instrument :
MSVOA_X
ClientSampleId :
S49-0495DL

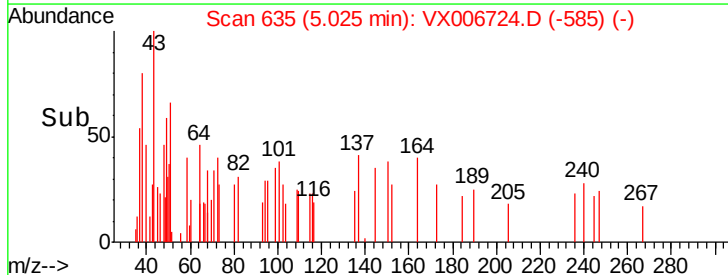
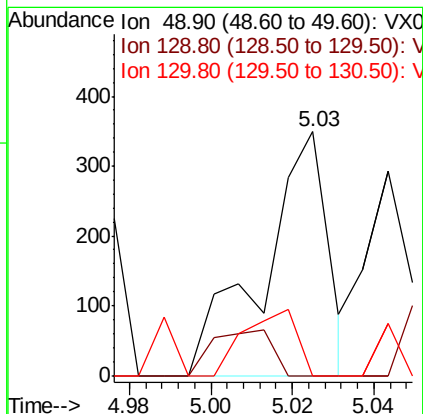
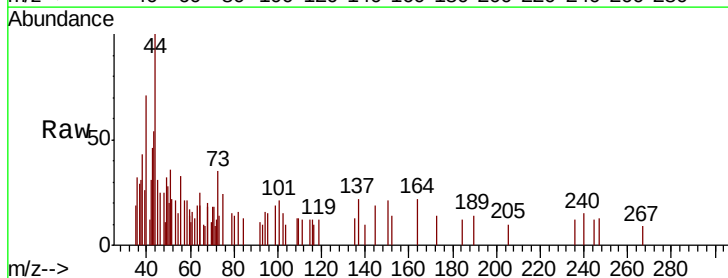
Tot Ion	Ratio	Lower	Upper
96	100		
61	114.3	0.0	258.6
98	65.3	0.0	132.0

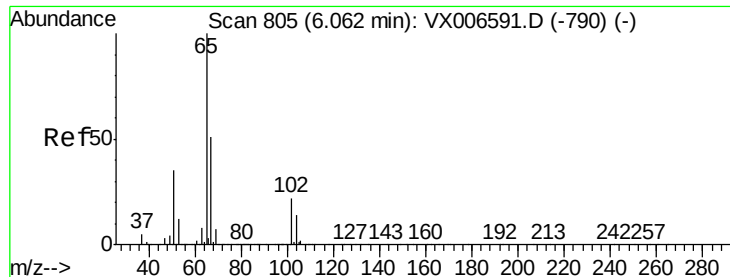


#28

Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

Tgt Ion	Ratio	Lower	Upper
49	100		
129	17.1	0.0	5.4#
130	22.0	77.7	116.5#

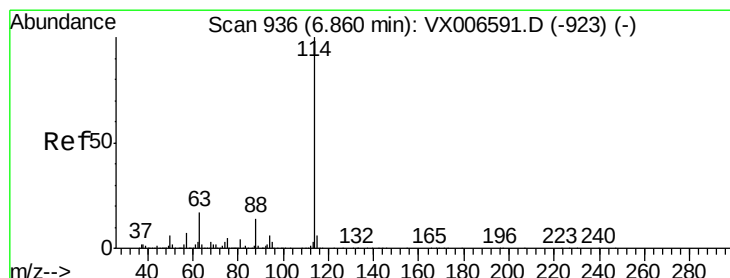
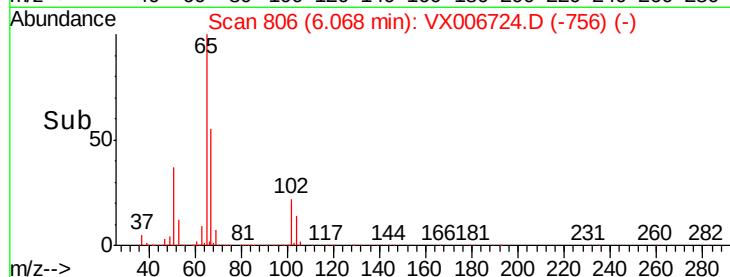
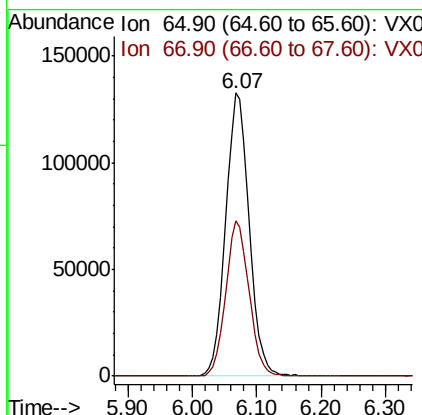
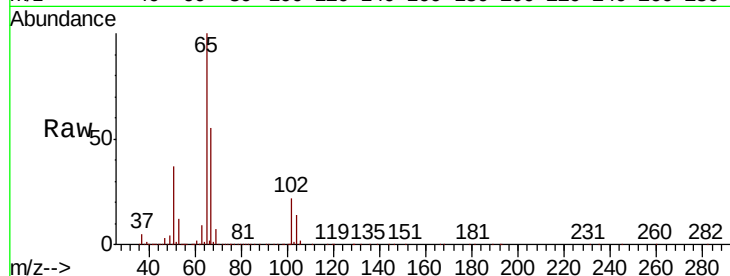




#33
 1,2-Dichloroethane-d4
 Concen: 49.197 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX006724.D
 Acq: 21 Dec 2018 15:29

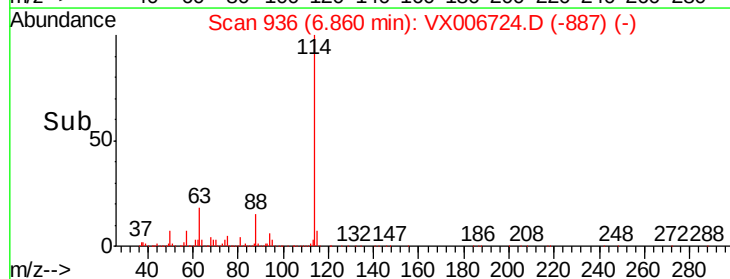
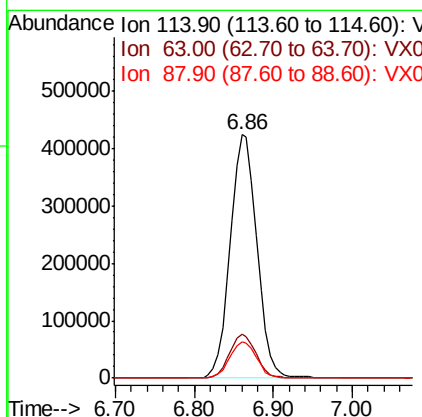
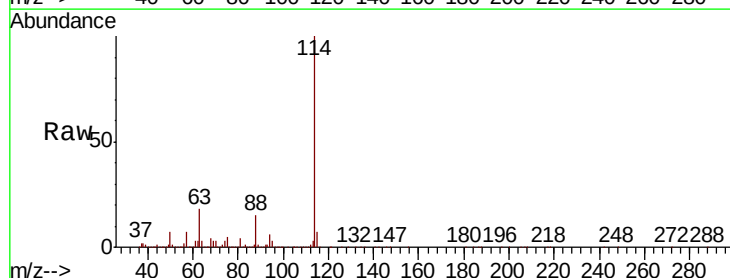
Instrument :
 MSVOA_X
 ClientSampled :
 S49-0495DL

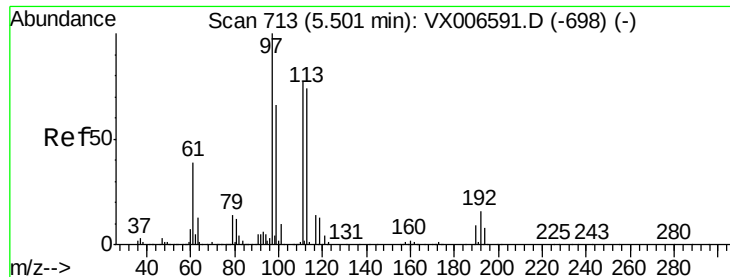
Tot Ion: 65 Resp: 341714
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006724.D
 Acq: 21 Dec 2018 15:29

Tgt Ion: 114 Resp: 999686
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 34.8
 88 14.8 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.843 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

Instrument :

MSVOA_X

ClientSampleId :

S49-0495DL

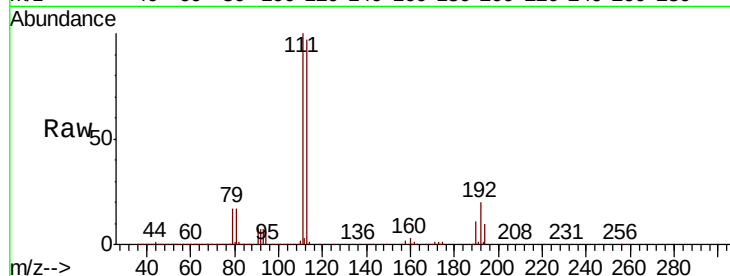
Tot Ion:113 Resp: 302455

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

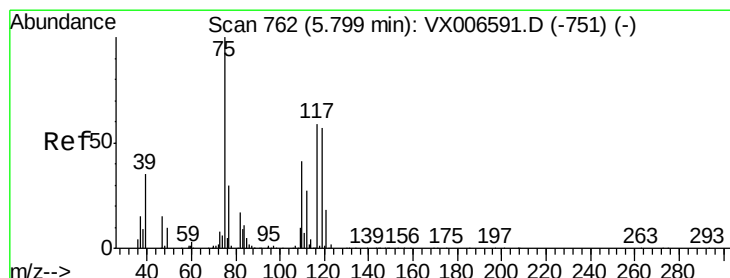
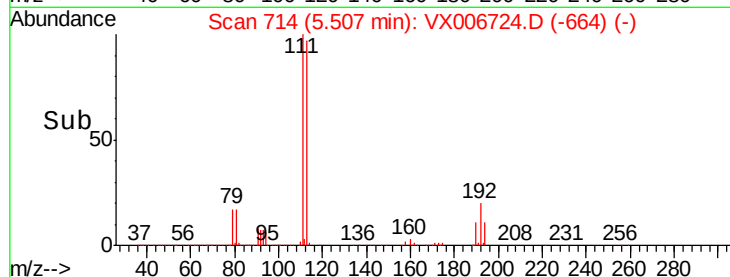
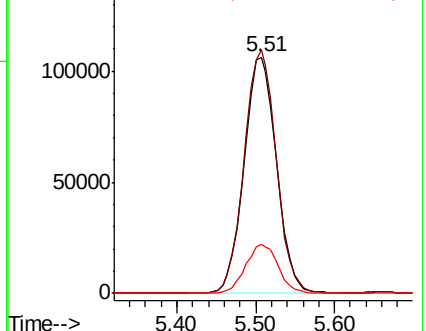
192 21.1 16.7 25.1



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: 5.124 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

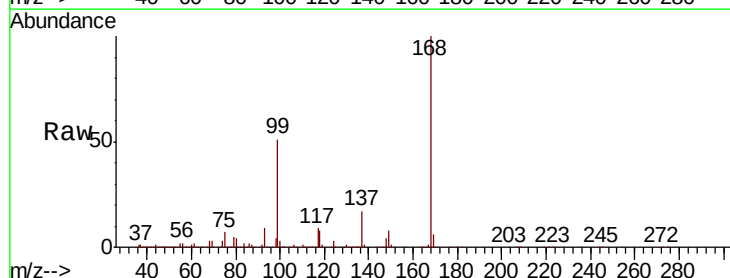
Tgt Ion: 75 Resp: 42424

Ion Ratio Lower Upper

75 100

110 11.7 20.2 60.5#

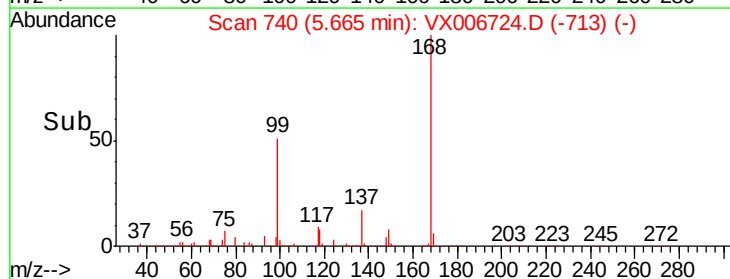
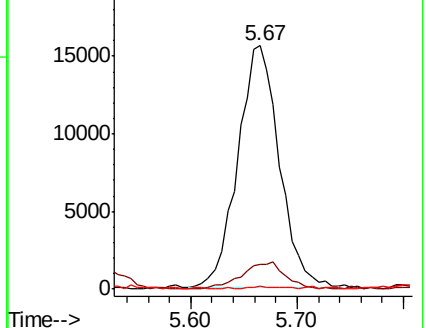
77 0.9 24.8 37.2#

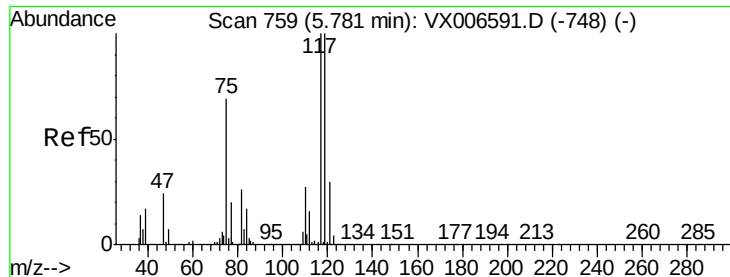


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.407 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

Instrument :

MSVOA_X

ClientSampled :

S49-0495DL

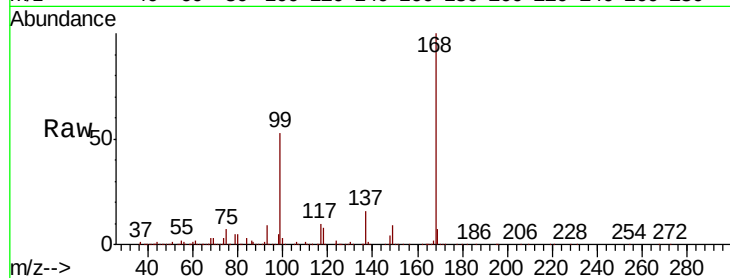
Tot Ion:117 Resp: 59604

Ion Ratio Lower Upper

117 100

119 3.9 79.4 119.2#

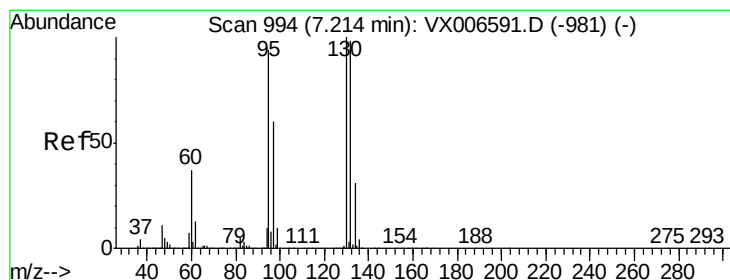
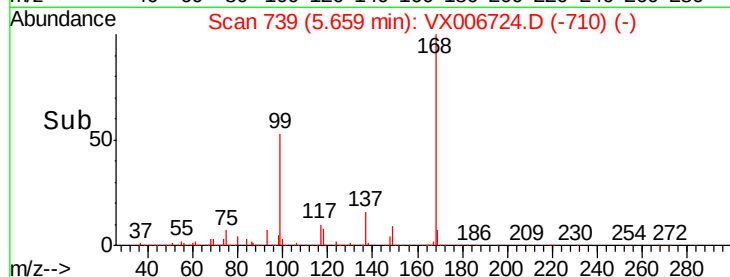
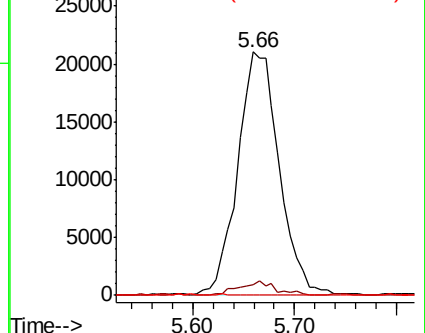
121 0.0 24.0 36.0#



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



#44

Trichloroethene

Concen: 27.227 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006724.D

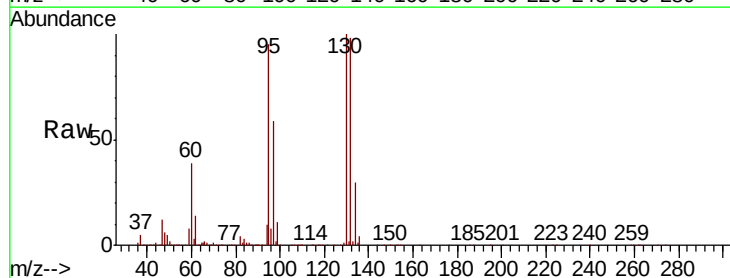
Acq: 21 Dec 2018 15:29

Tgt Ion:130 Resp: 207402

Ion Ratio Lower Upper

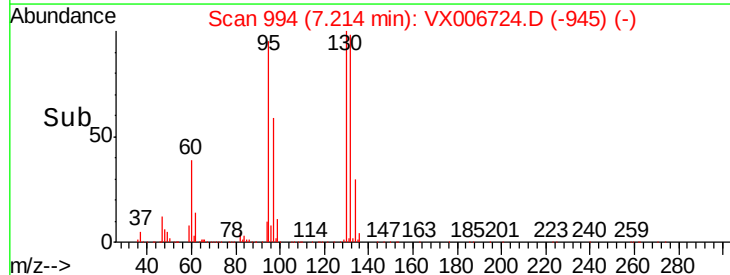
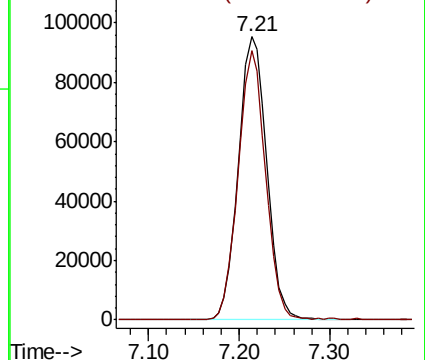
130 100

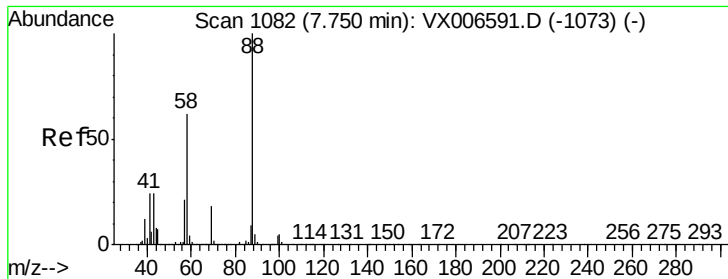
95 95.0 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

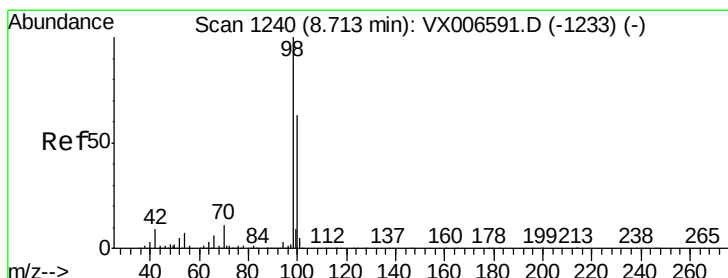
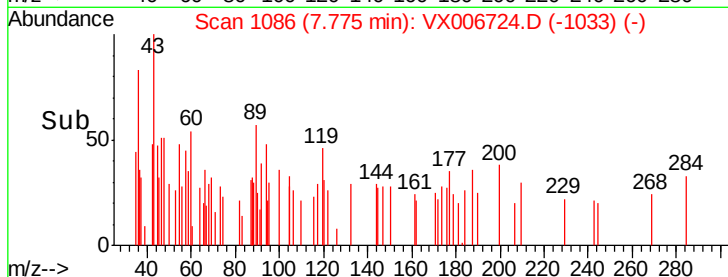
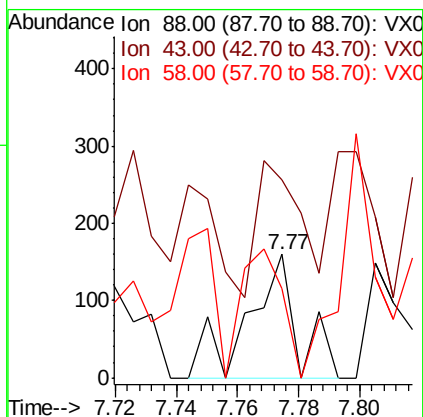
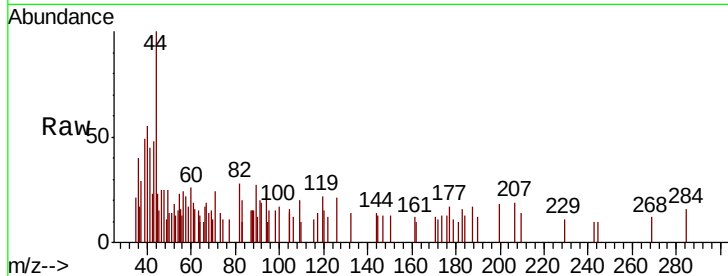




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.77 min Scan# 1086
Delta R.T. 0.02 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

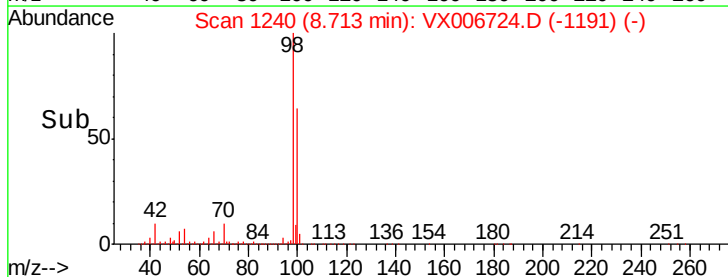
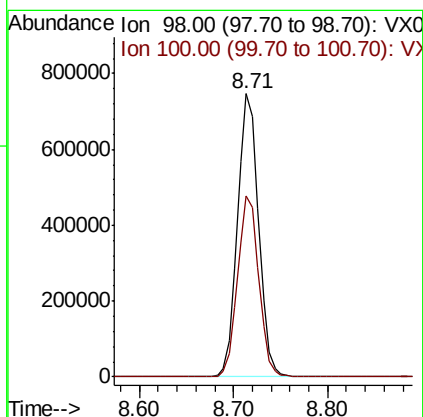
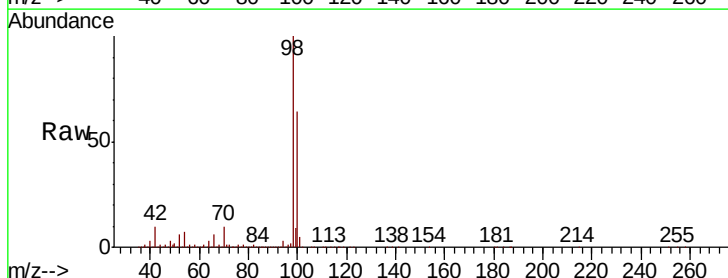
Instrument :
MSVOA_X
ClientSampled :
S49-0495DL

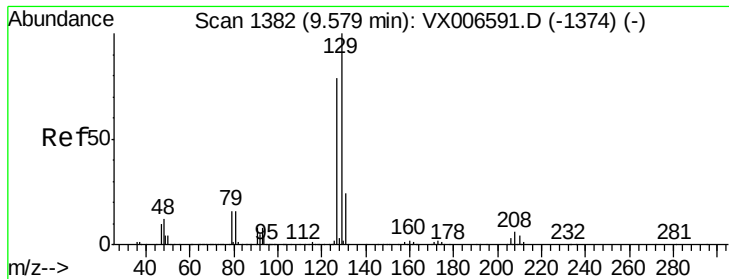
Tot Ion: 88 Resp: 183
Ion Ratio Lower Upper
88 100
43 95.1 22.2 33.4#
58 84.7 51.0 76.4#



#50
Toluene-d8
Concen: 48.656 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

Tgt Ion: 98 Resp: 1159644
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0





#60

Dibromochloromethane

Concen: 2.342 ug/l

RT: 9.57 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

Instrument :

MSVOA_X

ClientSampleID :

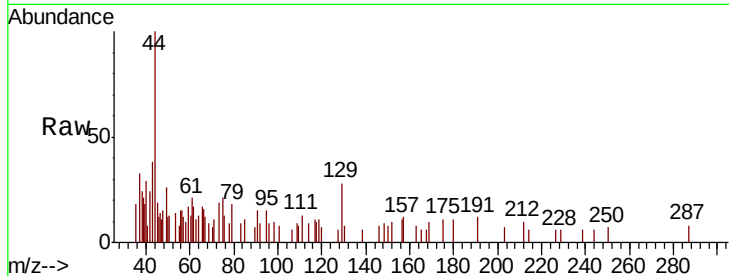
S49-0495DL

Tot Ion:129 Resp: 130

Ion Ratio Lower Upper

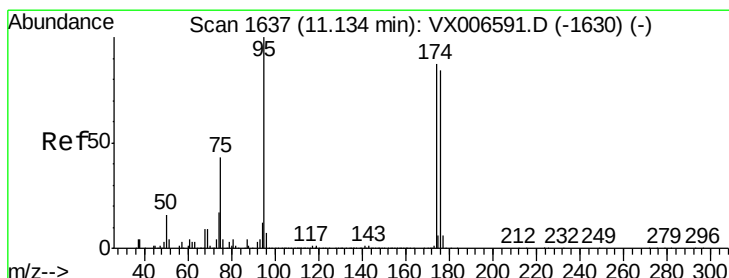
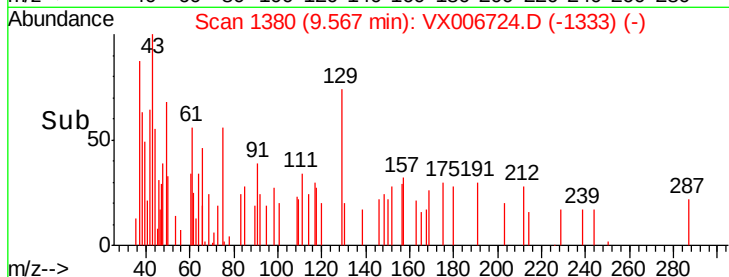
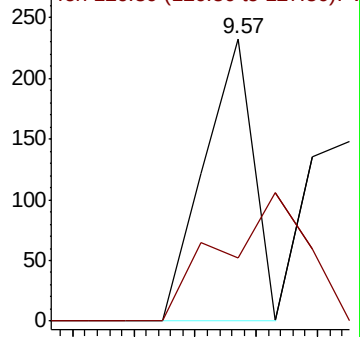
129 100

127 79.2 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: 47.361 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006724.D

Acq: 21 Dec 2018 15:29

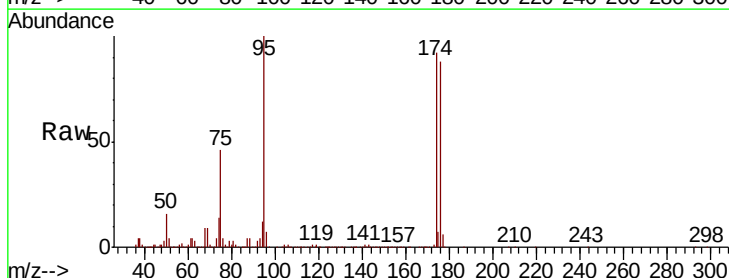
Tgt Ion: 95 Resp: 413410

Ion Ratio Lower Upper

95 100

174 87.5 0.0 182.2

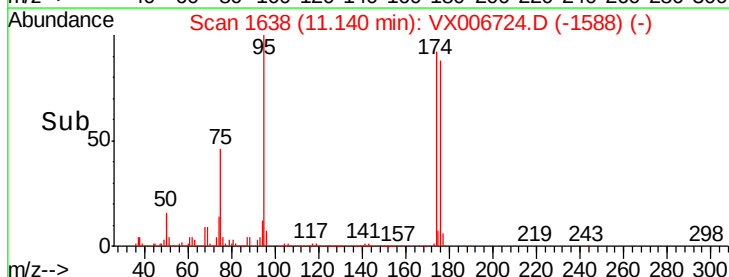
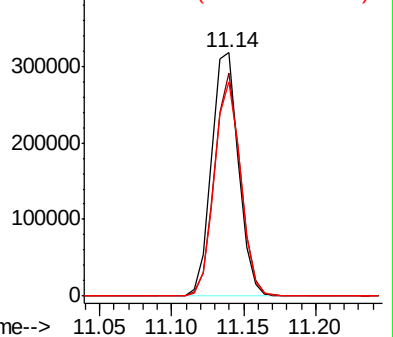
176 85.4 0.0 178.8

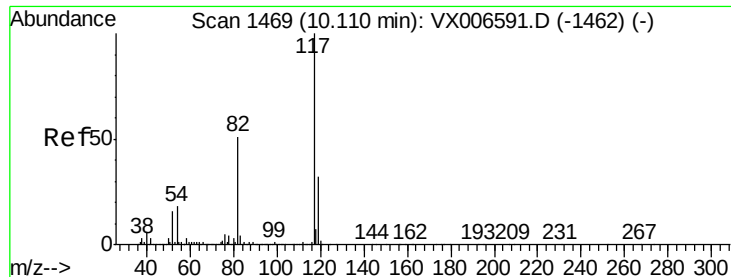


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

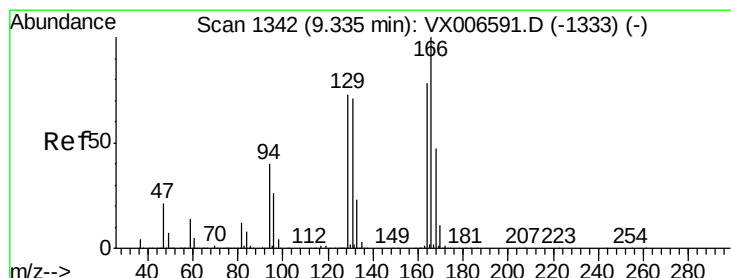
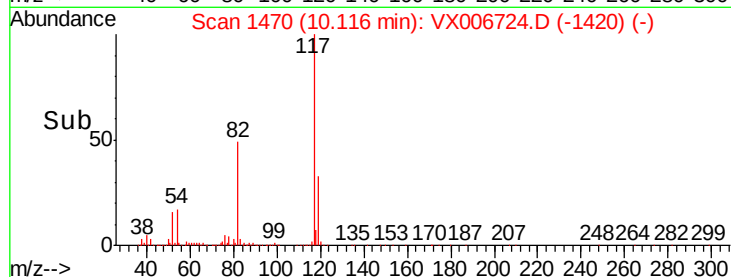
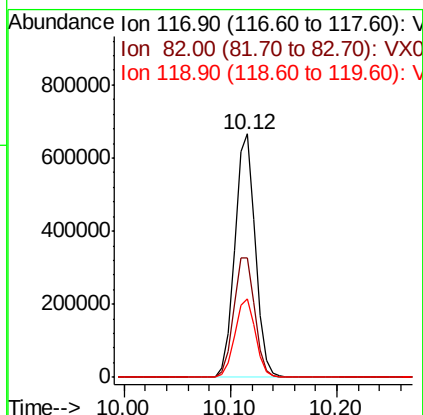
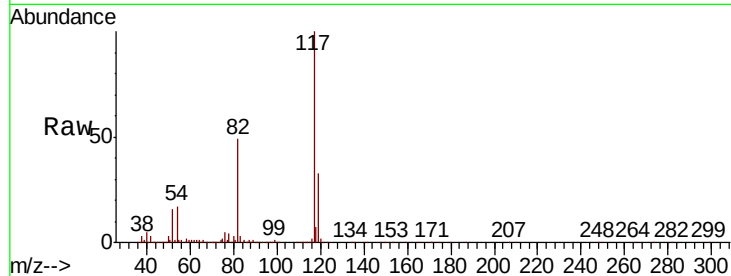




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

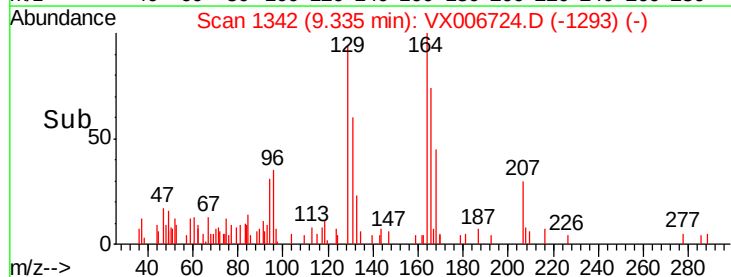
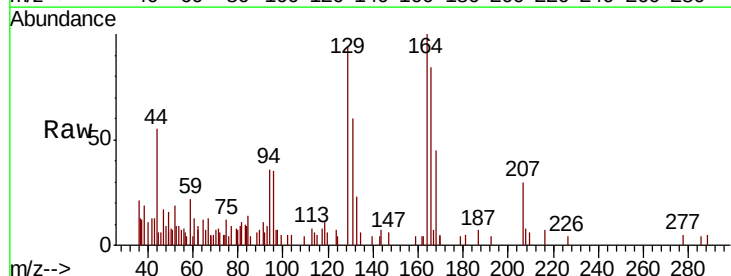
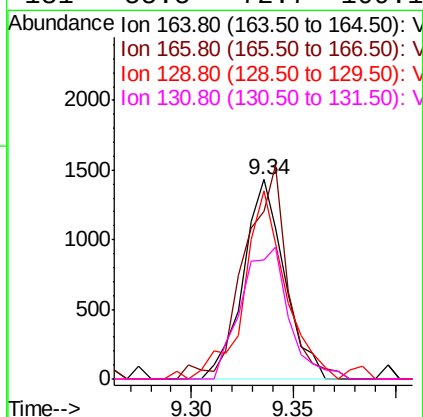
Instrument :
MSVOA_X
ClientSampleId :
S49-0495DL

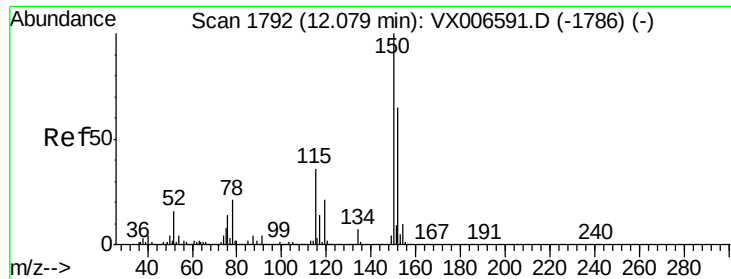
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.2	41.0	61.6
119	32.5	25.4	38.0



#64
Tetrachloroethene
Concen: 0.284 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	80.3	102.5	153.7#
129	94.5	75.1	112.7
131	55.5	72.7	109.1#

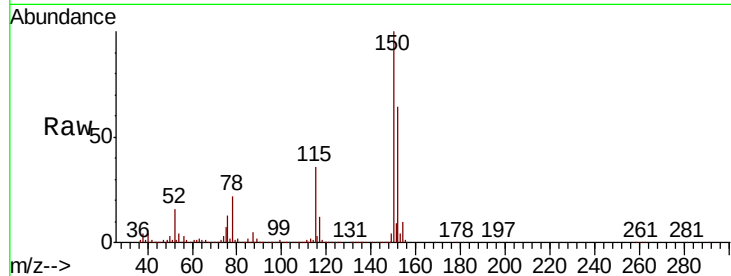




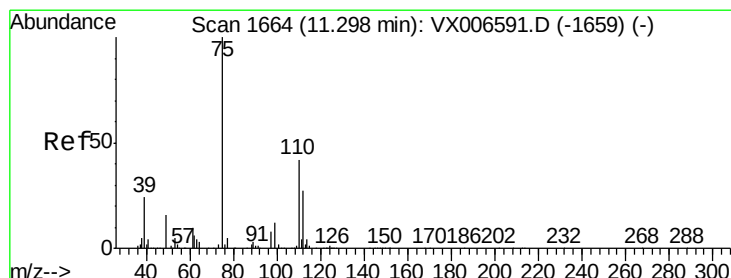
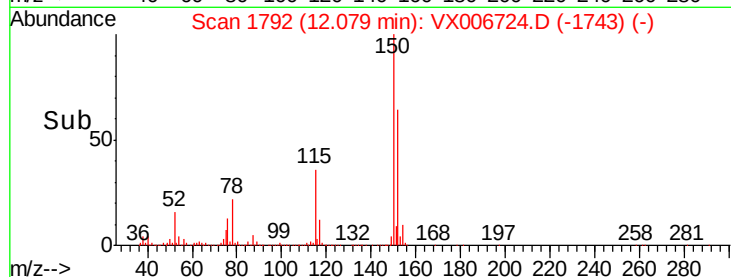
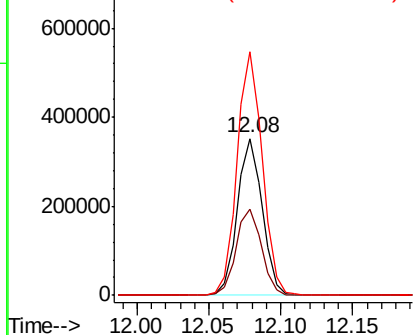
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX006724.D
 Acq: 21 Dec 2018 15:29

Instrument :
 MSVOA_X
 ClientSampled :
 S49-0495DL

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.4	39.1	117.2
150	157.4	0.0	344.8

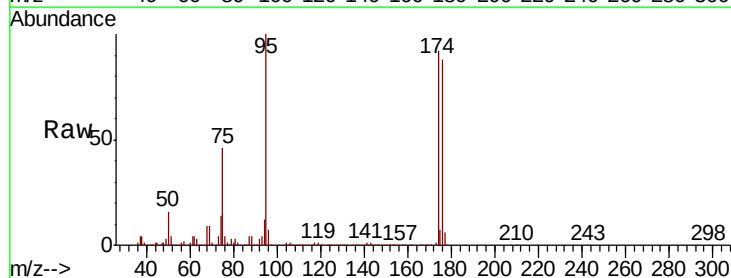


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

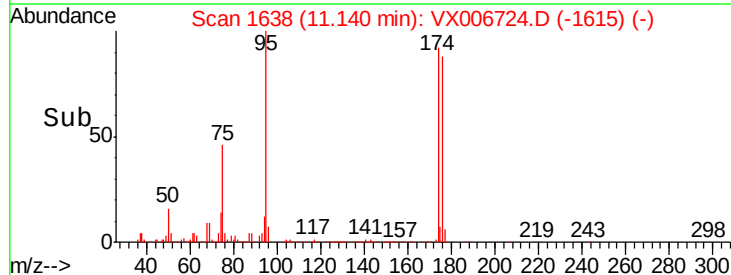
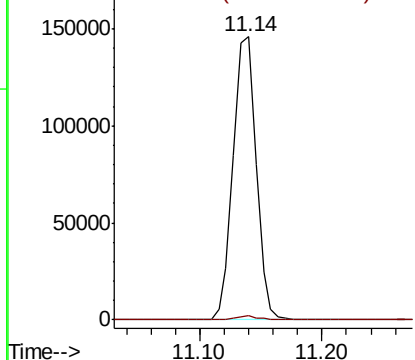


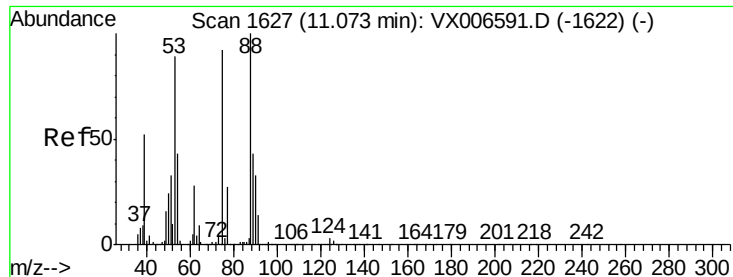
#76
 1,2,3-Trichloropropane
 Concen: 24.063 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX006724.D
 Acq: 21 Dec 2018 15:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.5	55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 77.00 (76.70 to 77.70): VX0

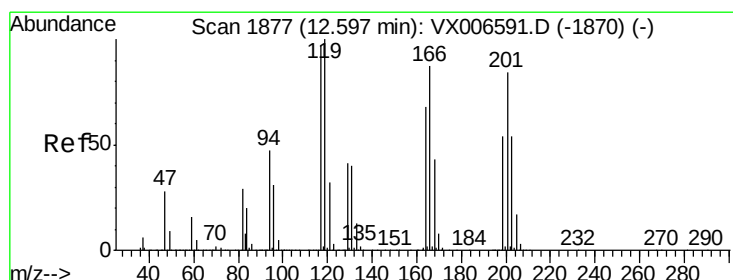
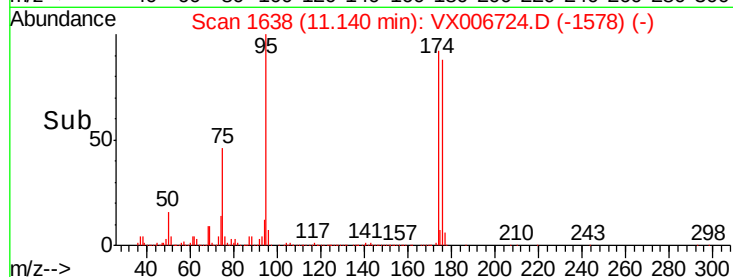
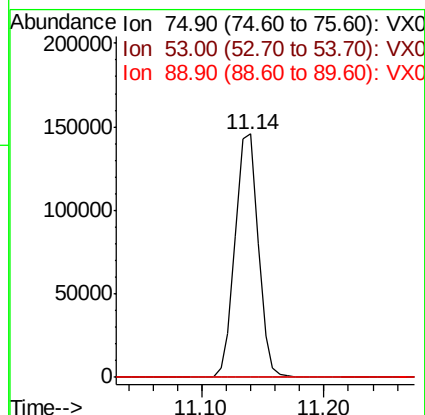
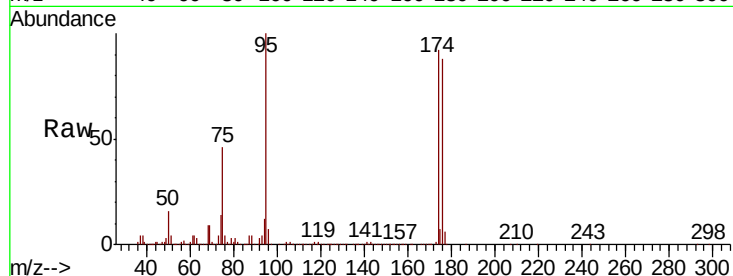




#81
trans-1,4-Dichloro-2-butene
Concen: 71.265 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

Instrument :
MSVOA_X
ClientSampleId :
S49-0495DL

Tot Ion: 75 Resp: 189621
Ion Ratio Lower Upper
75 100
53 0.2 79.7 119.5#
89 0.1 38.0 57.0#



#90
Hexachloroethane
Concen: 3.299 ug/l
RT: 12.58 min Scan# 1875
Delta R.T. -0.01 min
Lab File: VX006724.D
Acq: 21 Dec 2018 15:29

Tgt Ion: 117 Resp: 25
Ion Ratio Lower Upper
117 100
201 0.0 42.9 128.7#

