

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041319\
 Data File : VX008942.D
 Acq On : 13 Apr 2019 19:16
 Operator : JC/SP
 Sample : K2385-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:16:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	201682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	322433	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	277227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	117833	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	131010	44.54	ug/l	0.00
Spiked Amount			Recovery	=	89.08%	
35) Dibromofluoromethane	5.50	113	96810	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
50) Toluene-d8	8.71	98	398359	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	11.13	95	132553	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	

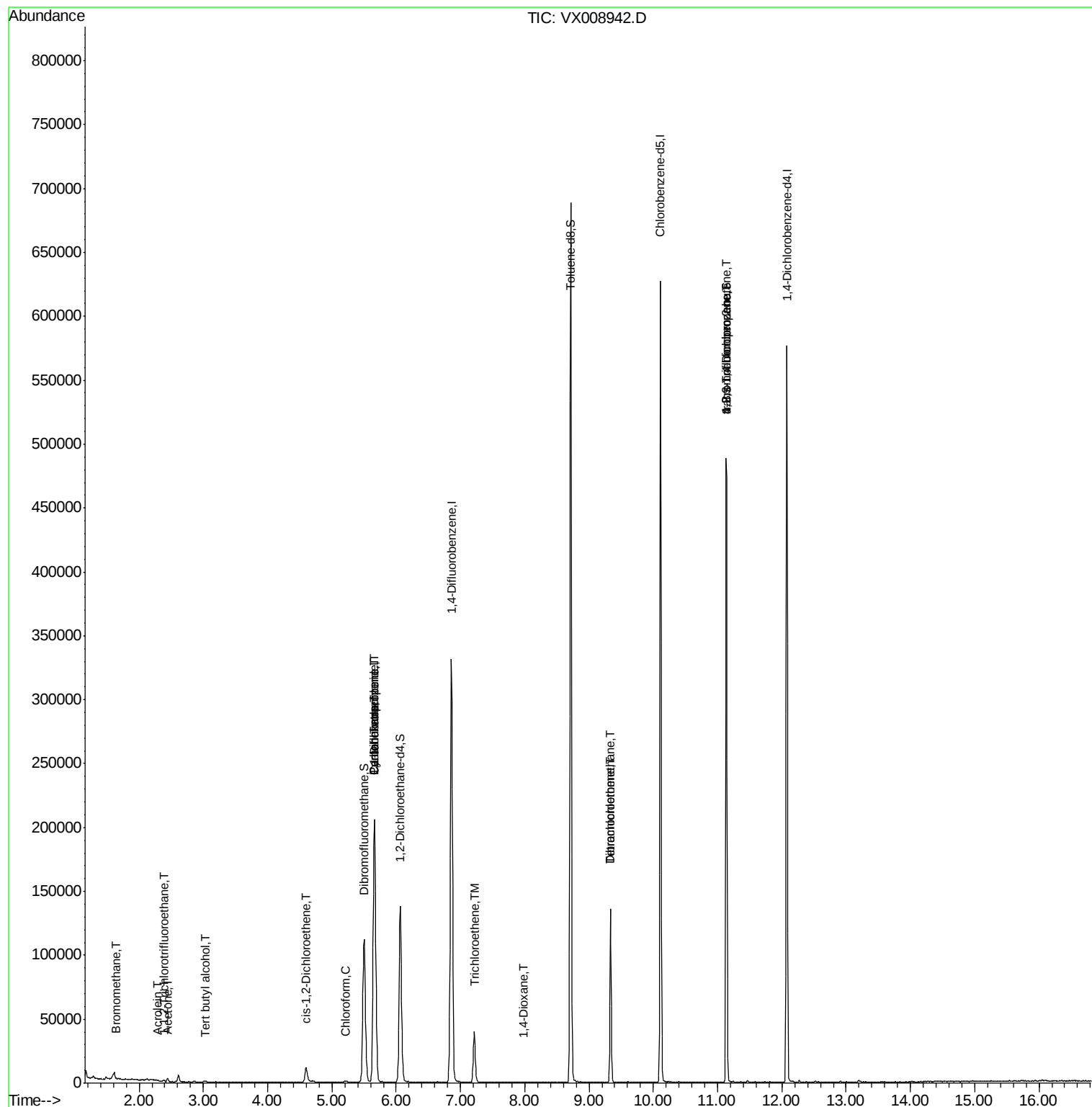
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	457	Below Cal		94
5) Bromomethane	1.64	94	154	1.981 ug/l #		55
6) Chloroethane	1.70	64	25	Below Cal #		43
9) 1,1,2-Trichlorotrifluoroet	2.39	101	599	0.268 ug/l		89
11) Tert butyl alcohol	3.04	59	663	0.963 ug/l #		72
13) Acrolein	2.29	56	211	0.618 ug/l		86
16) Acetone	2.44	43	2793	1.648 ug/l #		88
17) Carbon Disulfide	2.57	76	395	Below Cal #		75
27) cis-1,2-Dichloroethene	4.60	96	7014	2.419 ug/l		85
28) Bromochloromethane	5.15	49	19	Below Cal #		22
30) Chloroform	5.21	83	1282	0.282 ug/l		88
31) Cyclohexane	5.66	56	4487	0.883 ug/l #		1
36) 1,1-Dichloropropene	5.66	75	15507	4.400 ug/l #		51
38) Carbon Tetrachloride	5.67	117	19012	6.517 ug/l #		16
44) Trichloroethene	7.21	130	15426	6.308 ug/l		92
49) 1,4-Dioxane	7.97	88	19	0.272 ug/l #		1
60) Dibromochloromethane	9.34	129	24308	10.381 ug/l #		11
64) Tetrachloroethene	9.34	164	25651	12.489 ug/l		94
76) 1,2,3-Trichloropropane	11.13	75	66902	20.668 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.13	75	66902	56.972 ug/l #		9

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

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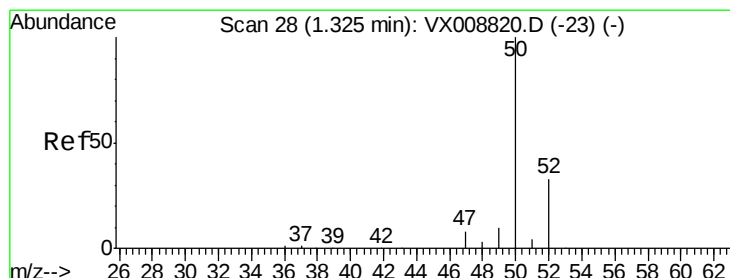
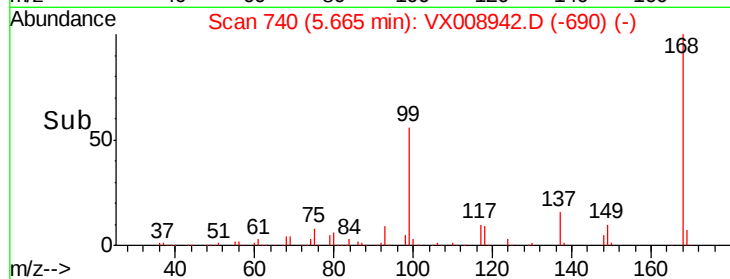
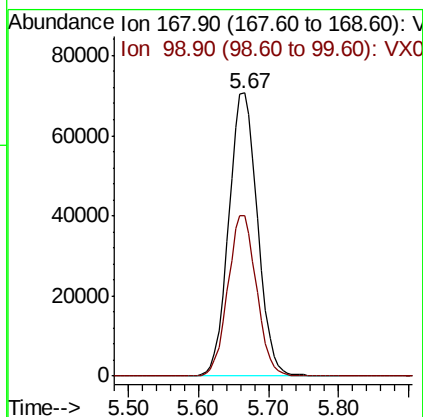
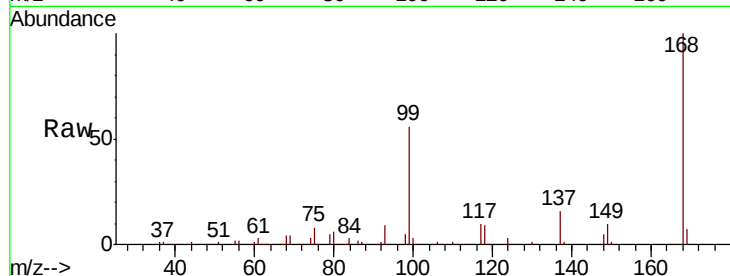




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

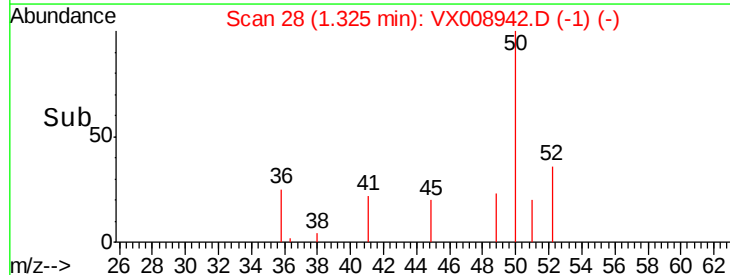
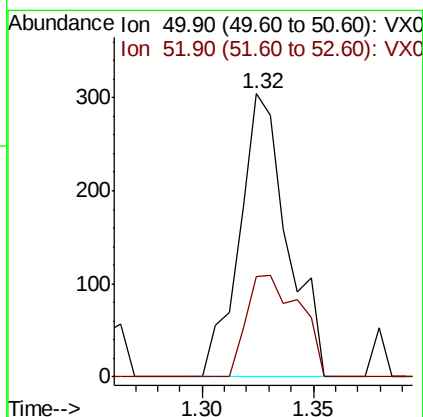
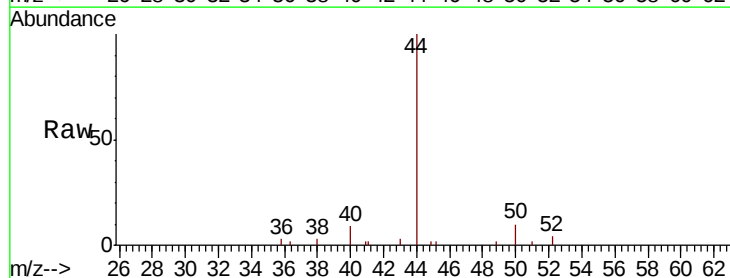
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 201682
Ion Ratio Lower Upper
168 100
99 56.5 46.7 70.1



#3
Chloromethane
Concen: Below Cal
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

Tgt Ion: 50 Resp: 457
Ion Ratio Lower Upper
50 100
52 35.5 25.8 38.8





#5

Bromomethane

Concen: 1.981 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :

MSVOA_X

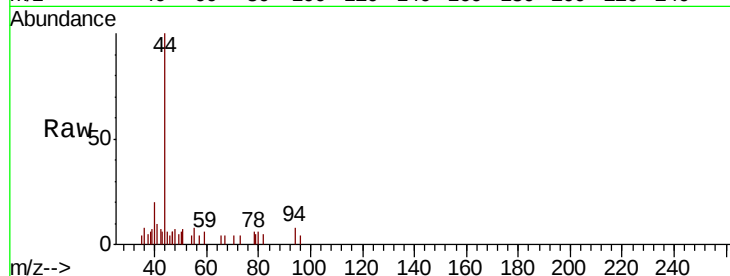
ClientSampled :

Tot Ion: 94 Resp: 154

Ion Ratio Lower Upper

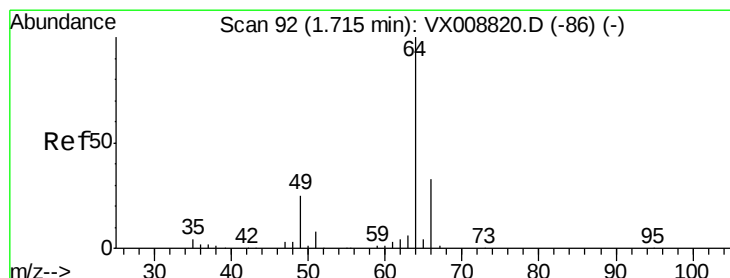
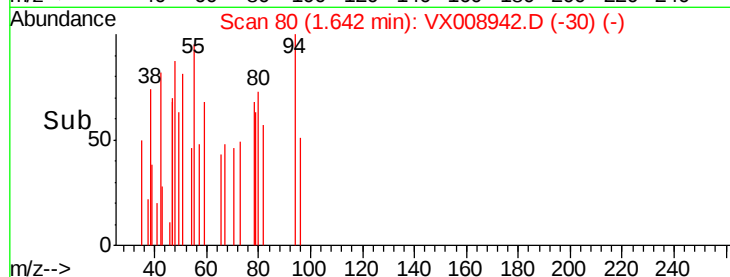
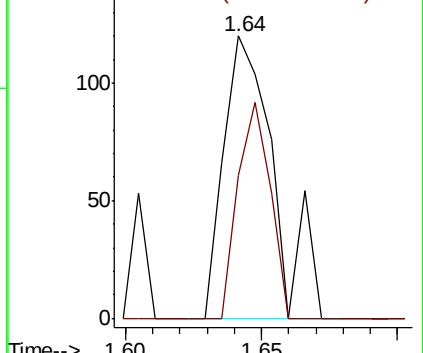
94 100

96 50.8 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX008942.D

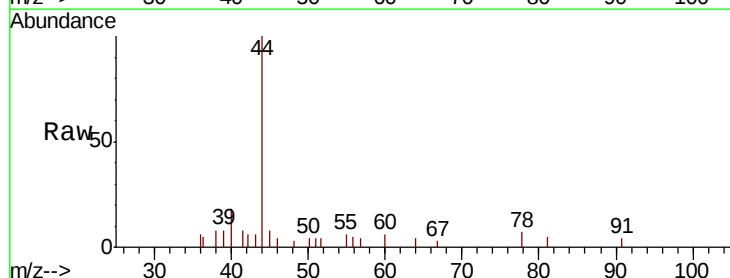
Acq: 13 Apr 2019 19:16

Tgt Ion: 64 Resp: 25

Ion Ratio Lower Upper

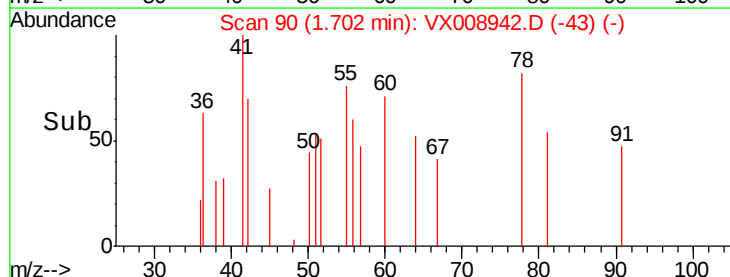
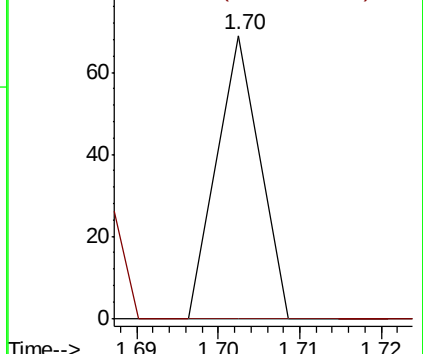
64 100

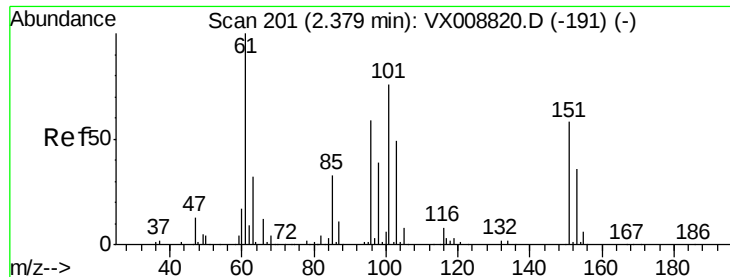
66 0.0 25.4 38.0#



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: 0.268 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

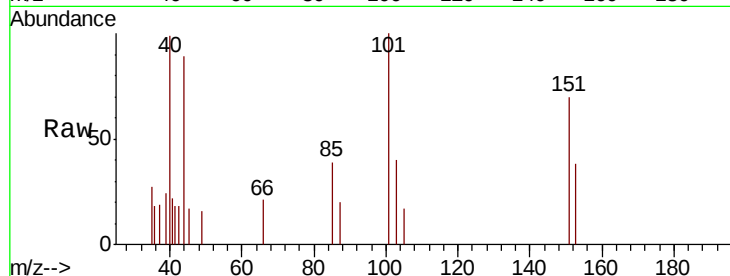
Tot Ion:101 Resp: 599

Ion Ratio Lower Upper

101 100

85 52.8 36.0 54.0

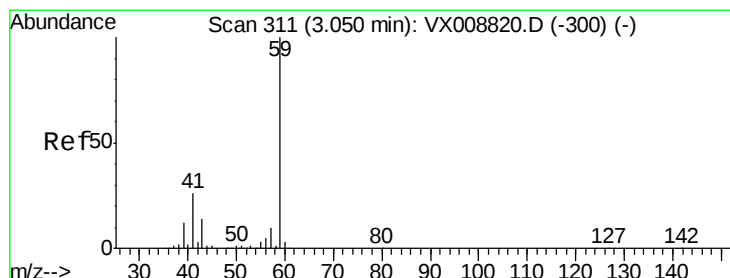
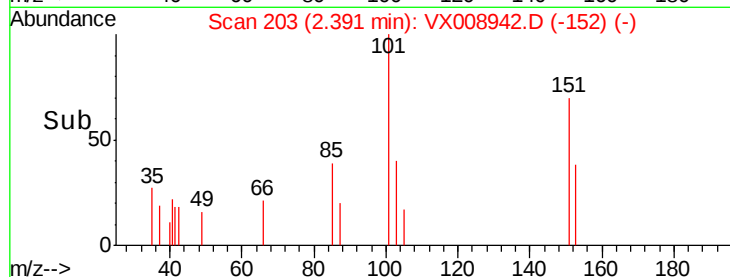
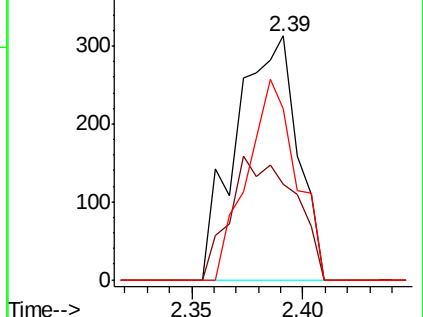
151 65.8 59.9 89.9



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



#11

Tert butyl alcohol

Concen: 0.963 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.02 min

Lab File: VX008942.D

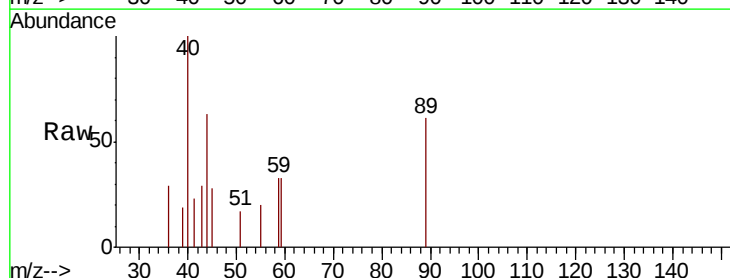
Acq: 13 Apr 2019 19:16

Tgt Ion: 59 Resp: 663

Ion Ratio Lower Upper

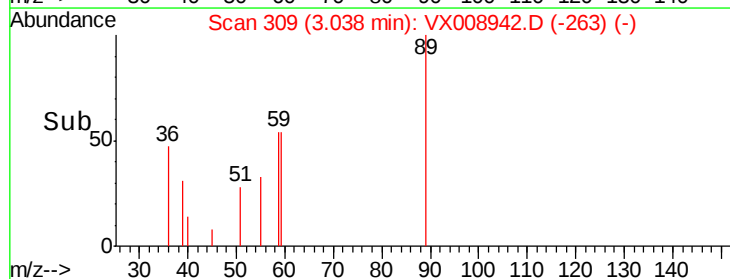
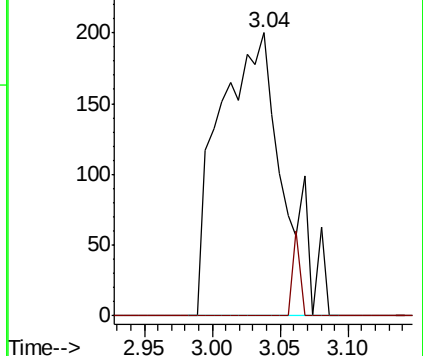
59 100

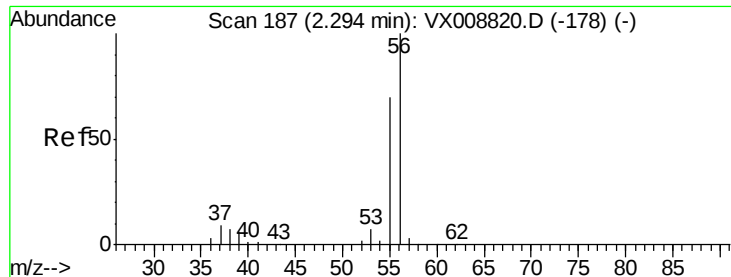
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.618 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :

MSVOA_X

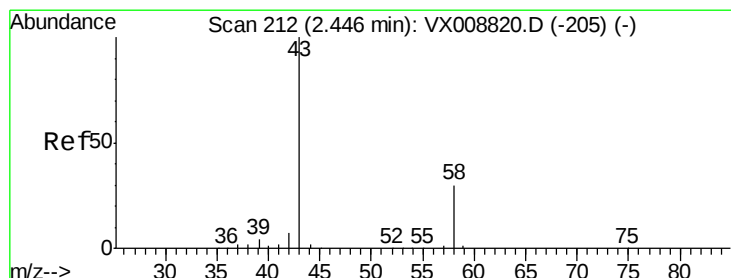
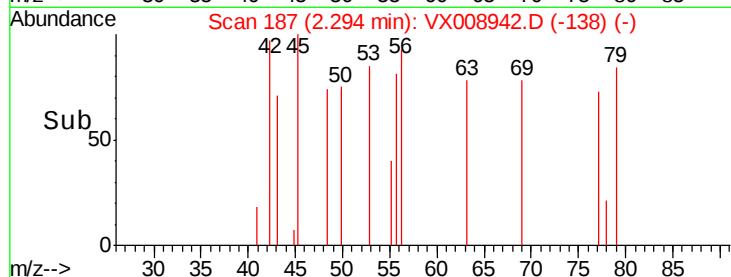
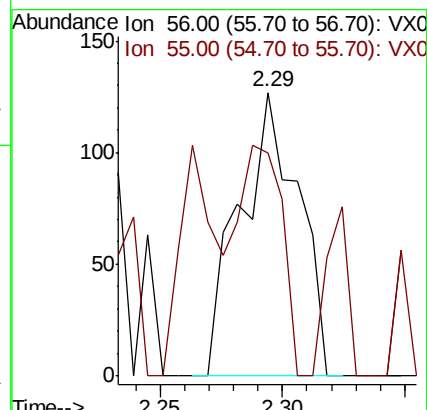
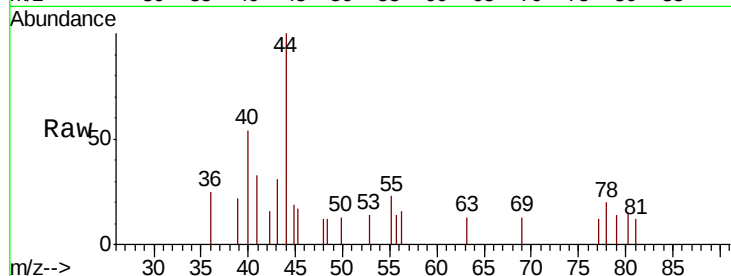
ClientSampled :

Tot Ion: 56 Resp: 211

Ion Ratio Lower Upper

56 100

55 60.7 58.0 87.0



#16

Acetone

Concen: 1.648 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008942.D

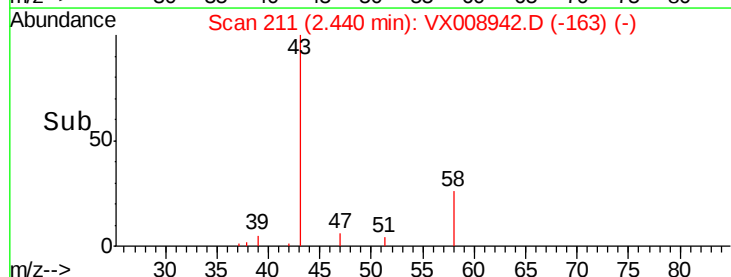
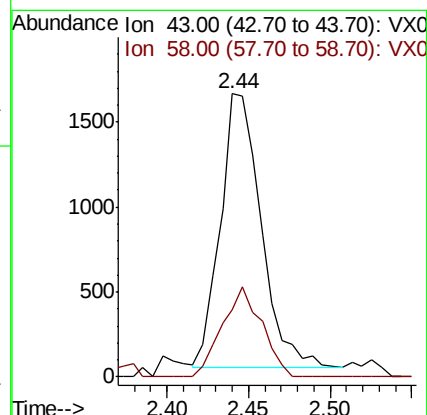
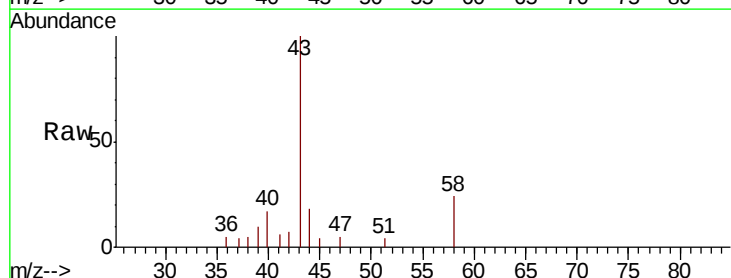
Acq: 13 Apr 2019 19:16

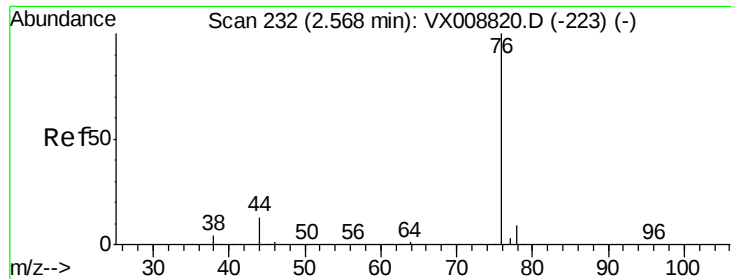
Tgt Ion: 43 Resp: 2793

Ion Ratio Lower Upper

43 100

58 24.7 24.8 37.2#

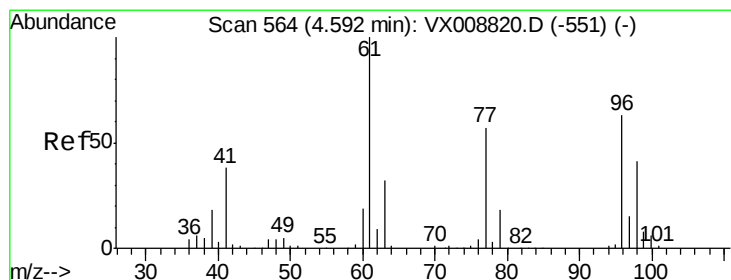
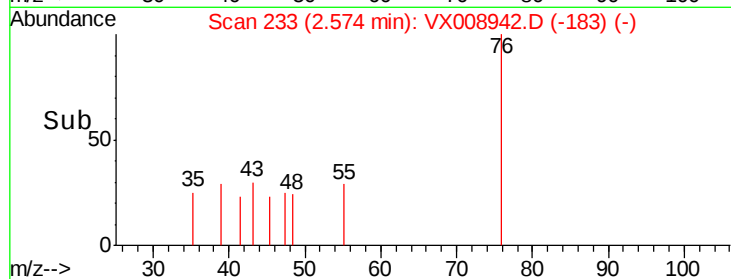
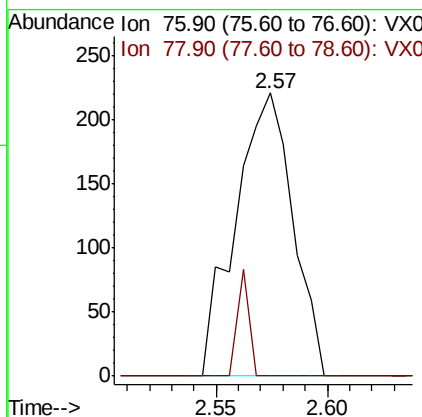
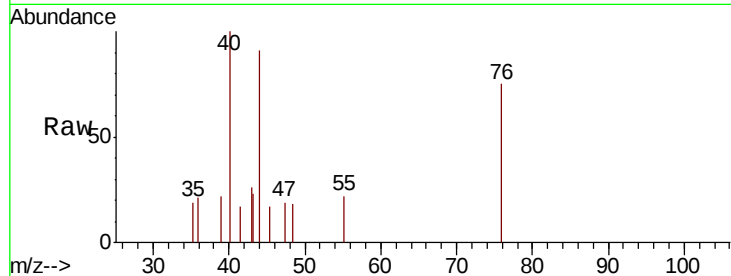




#17
Carbon Disulfide
Concen: Below Cal
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

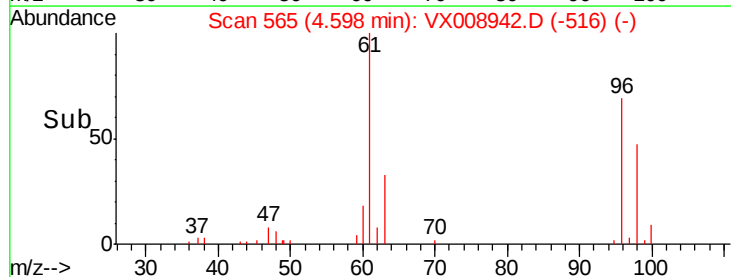
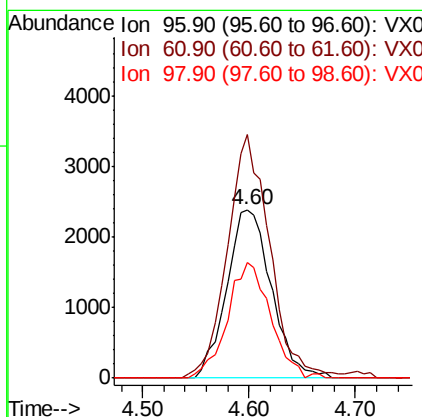
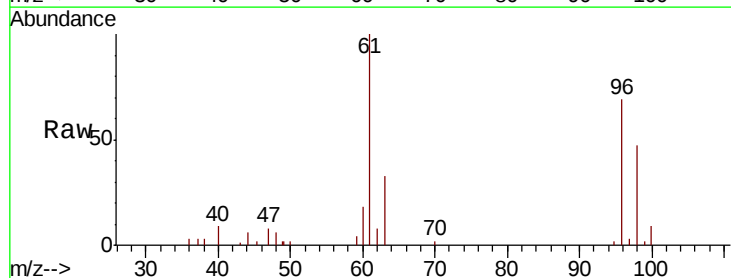
Instrument :
MSVOA_X
ClientSampled :

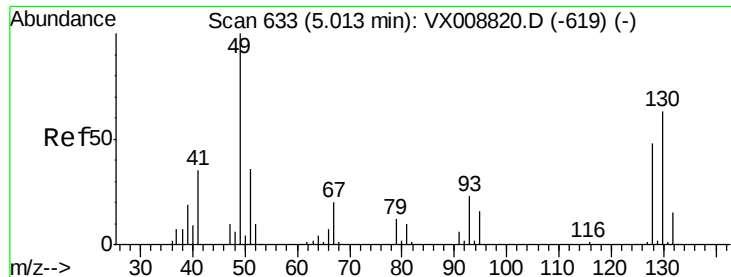
Tot Ion: 76 Resp: 395
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#27
cis-1,2-Dichloroethene
Concen: 2.419 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

Tgt Ion: 96 Resp: 7014
Ion Ratio Lower Upper
96 100
61 137.2 0.0 327.6
98 65.9 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.15 min Scan# 655

Delta R.T. 0.13 min

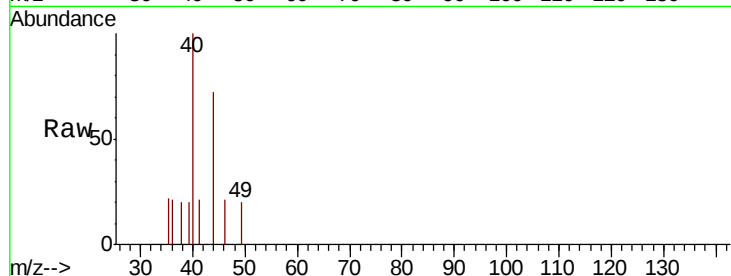
Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 19

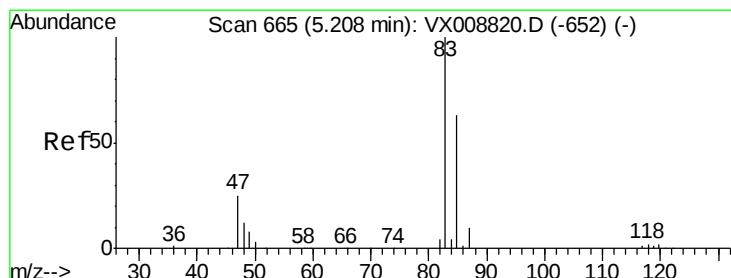
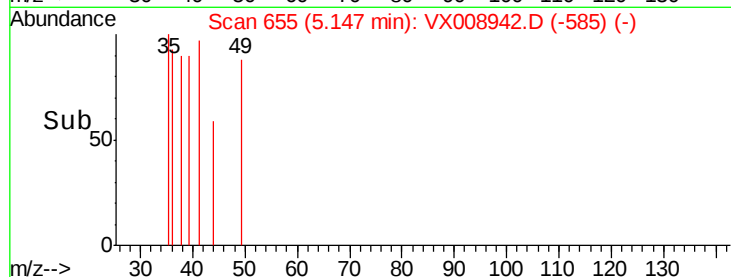
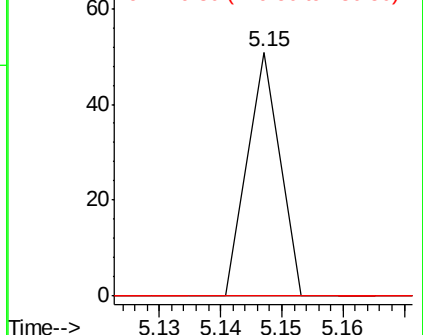
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 0.282 ug/l

RT: 5.21 min Scan# 666

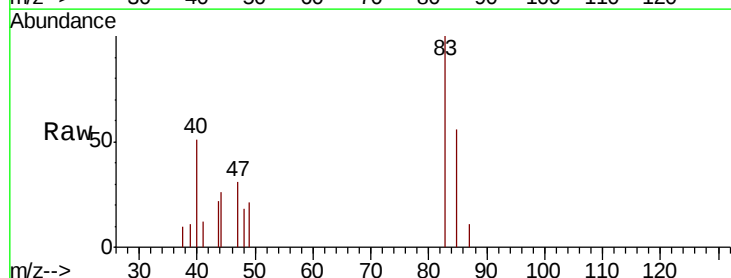
Delta R.T. -0.00 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

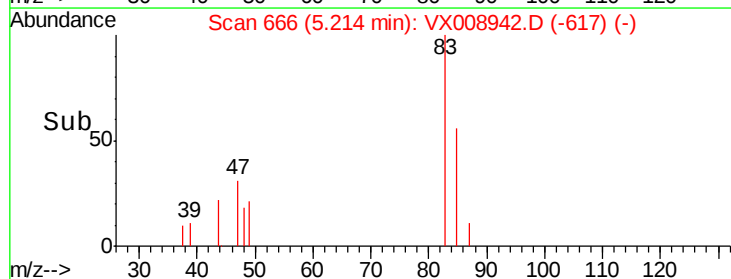
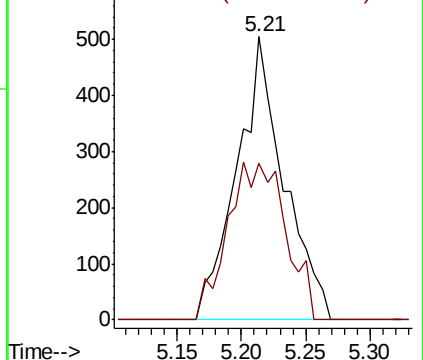
Tgt Ion: 83 Resp: 1282

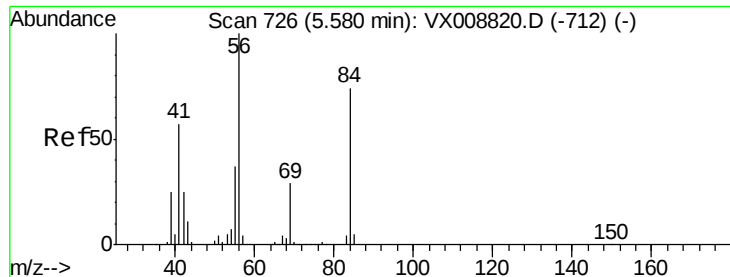
Ion	Ratio	Lower	Upper
83	100		
85	55.6	52.1	78.1



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

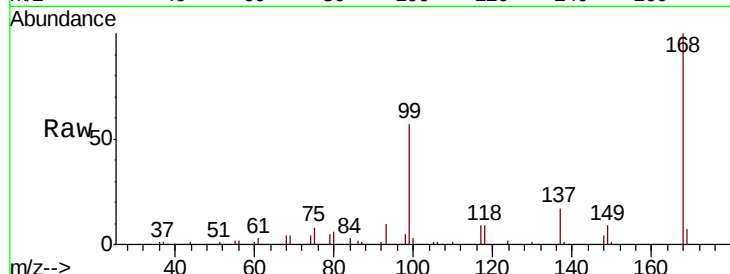




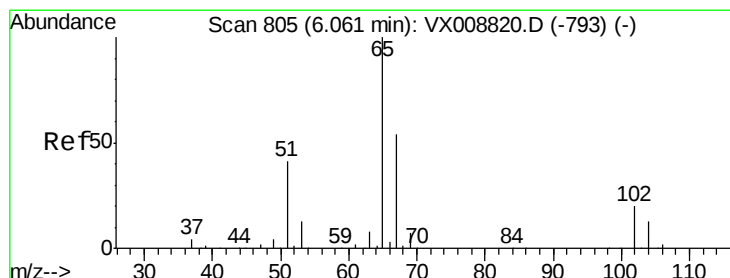
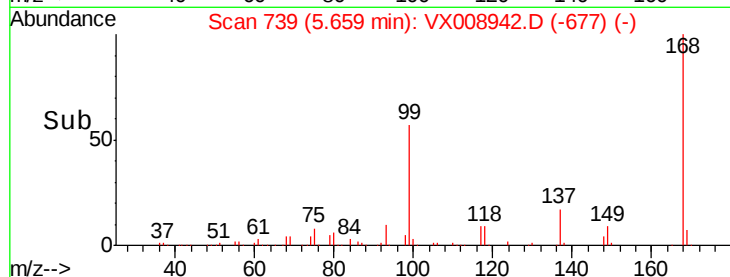
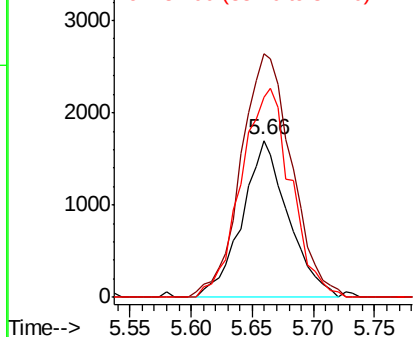
#31
Cyclohexane
Concen: 0.883 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4487
Ion Ratio Lower Upper
56 100
69 155.0 22.6 33.8#
84 127.5 59.3 88.9#

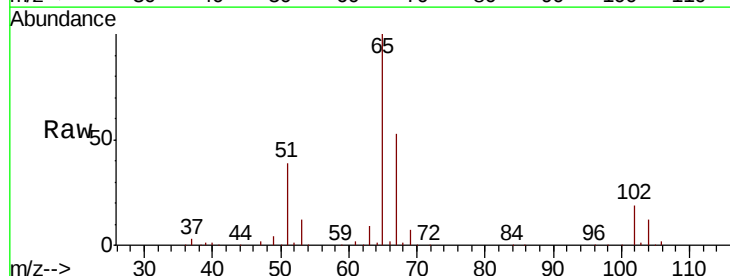


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

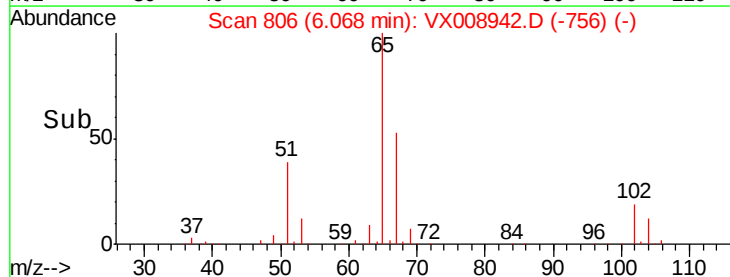
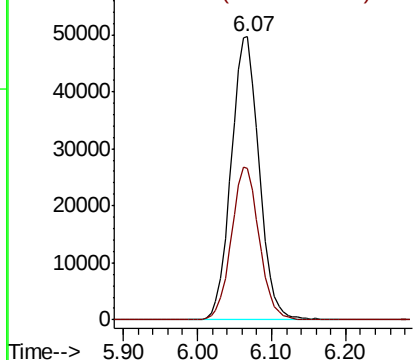


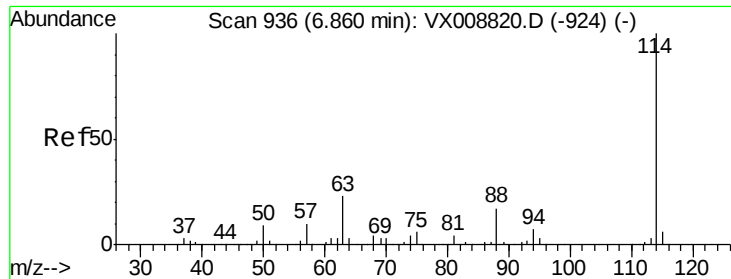
#33
1,2-Dichloroethane-d4
Concen: 44.536 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

Tgt Ion: 65 Resp: 131010
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.2



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

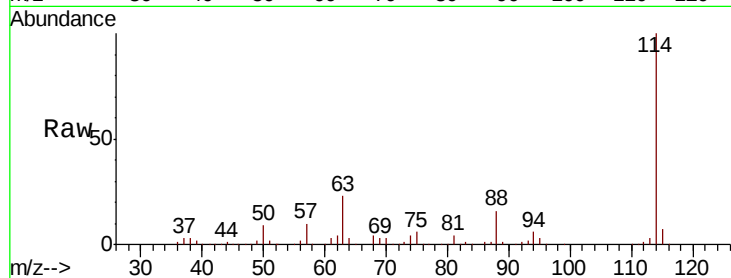




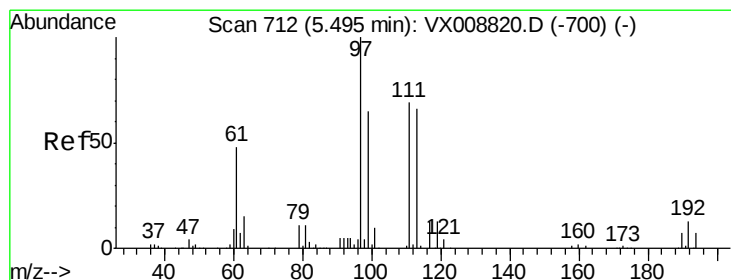
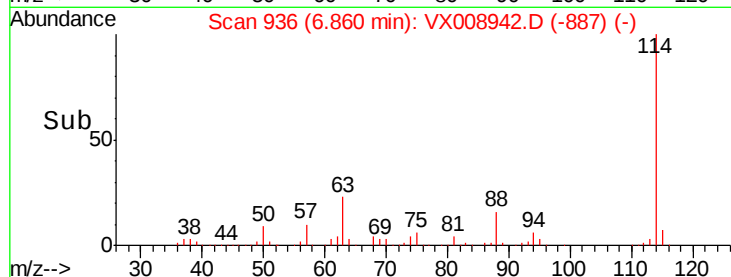
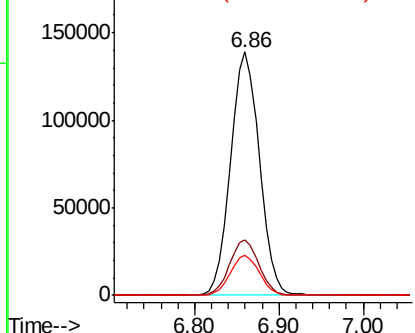
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:114 Resp: 322433
Ion Ratio Lower Upper
114 100
63 22.8 0.0 47.2
88 16.3 0.0 34.0

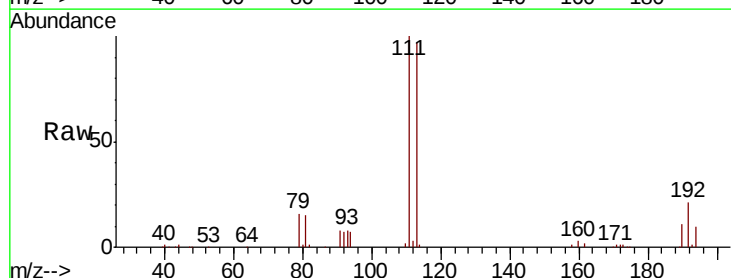


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

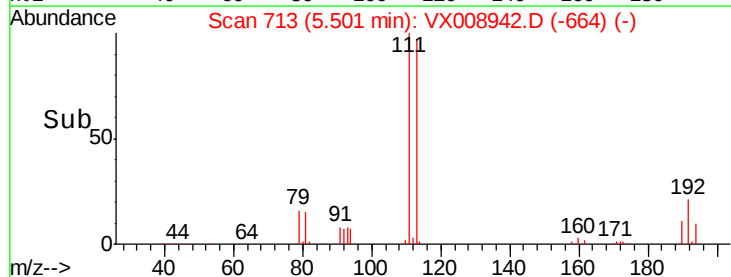
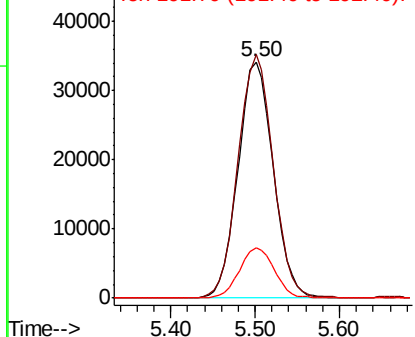


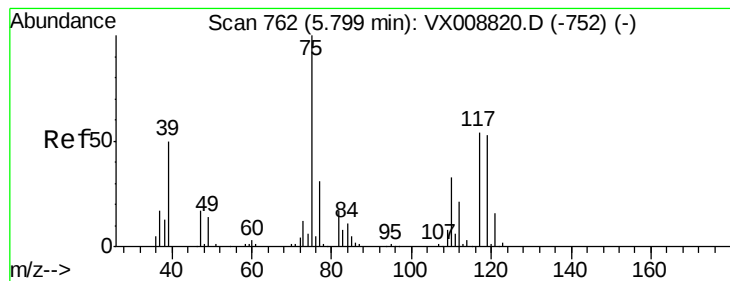
#35
Dibromofluoromethane
Concen: 46.961 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

Tgt Ion:113 Resp: 96810
Ion Ratio Lower Upper
113 100
111 102.8 83.4 125.2
192 21.0 16.1 24.1



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





#36

1,1-Dichloropropene

Concen: 4.400 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

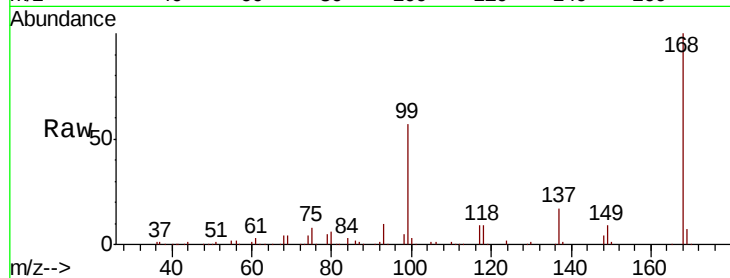
Tot Ion: 75 Resp: 15507

Ion Ratio Lower Upper

75 100

110 8.9 16.4 49.2#

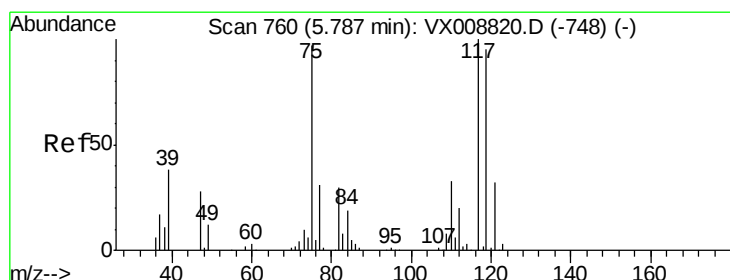
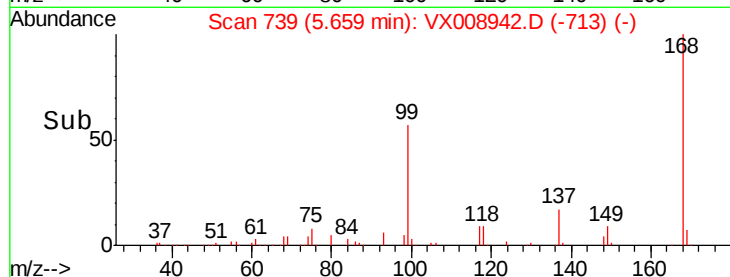
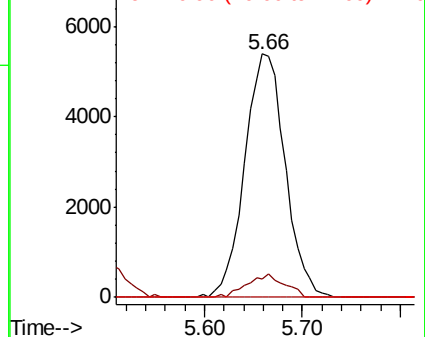
77 0.0 24.7 37.1#



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: 6.517 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

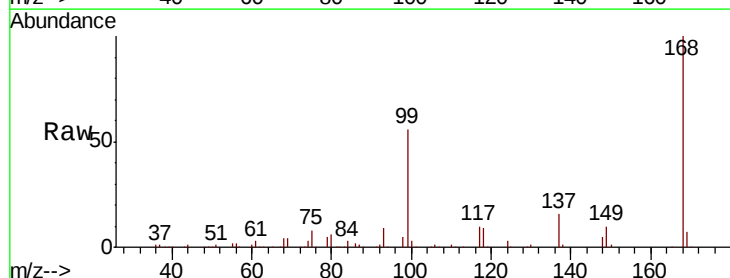
Tgt Ion: 117 Resp: 19012

Ion Ratio Lower Upper

117 100

119 4.3 75.0 112.6#

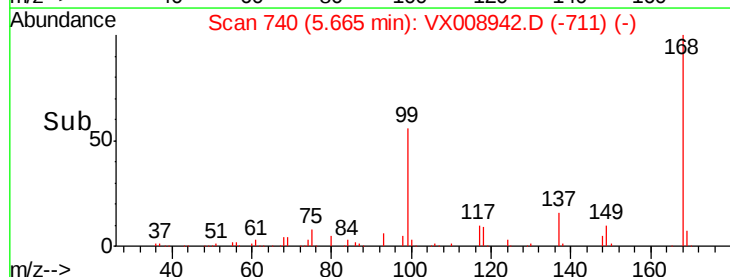
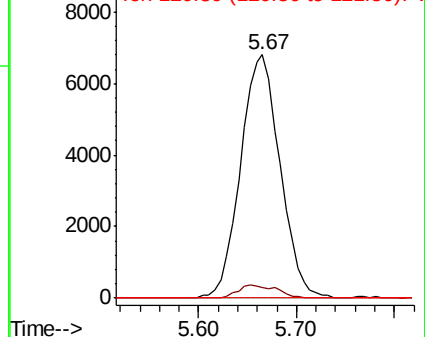
121 0.0 24.3 36.5#

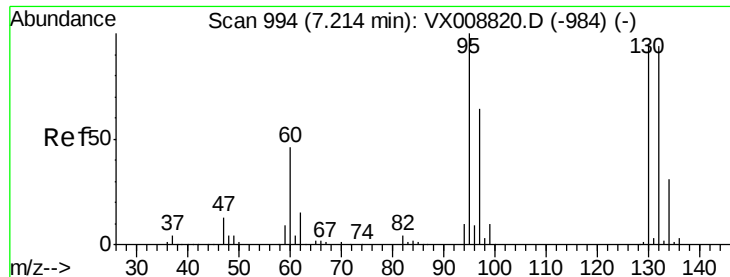


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 6.308 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :

MSVOA_X

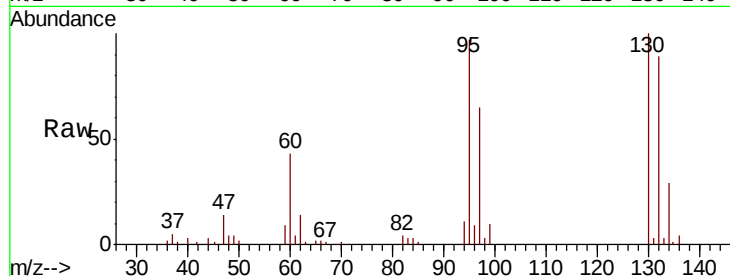
ClientSampled :

Tot Ion:130 Resp: 15426

Ion Ratio Lower Upper

130 100

95 97.0 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

8000

6000

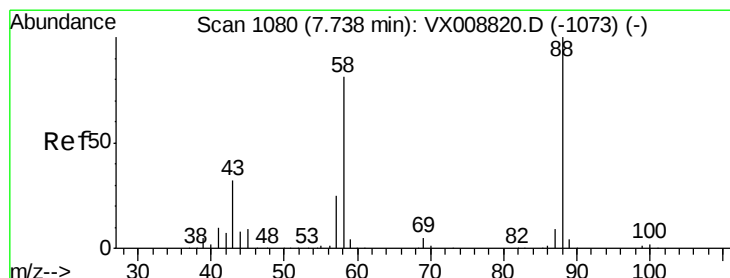
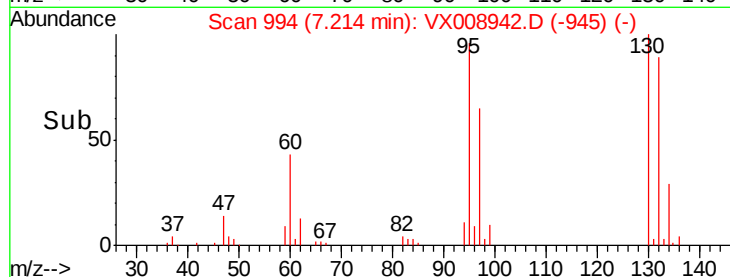
4000

2000

0

Time-->

7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 0.272 ug/l

RT: 7.97 min Scan# 1118

Delta R.T. 0.23 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

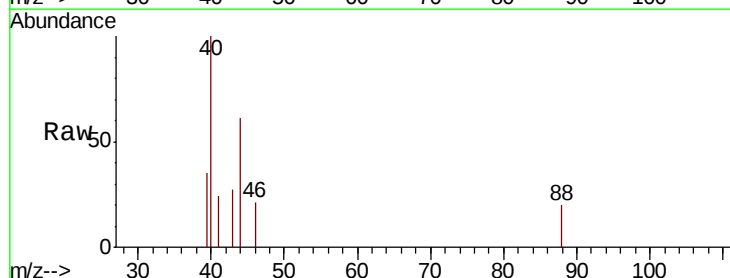
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 242.1 28.6 43.0#

58 0.0 62.2 93.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

100

80

60

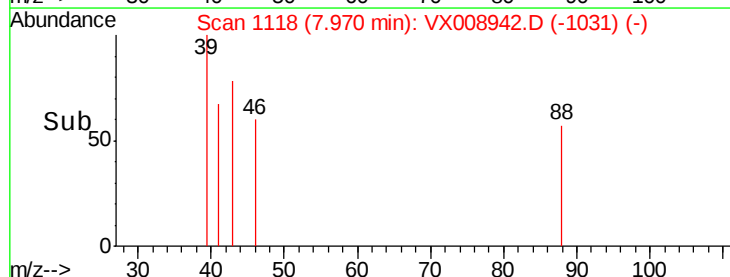
40

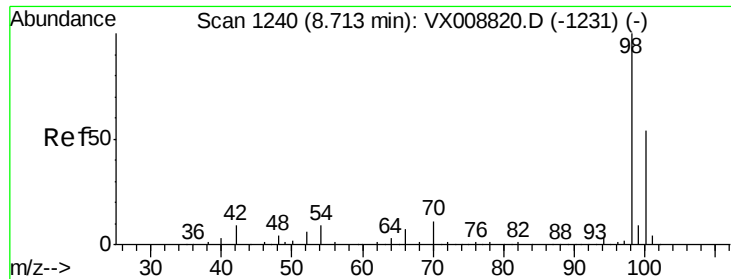
20

0

Time-->

7.95 7.96 7.97 7.98 7.99

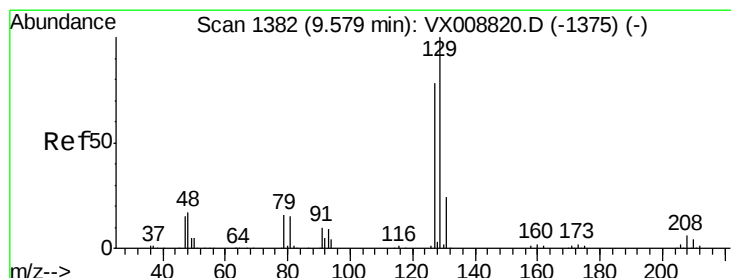
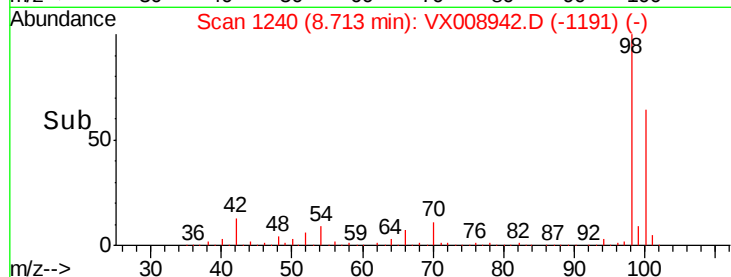
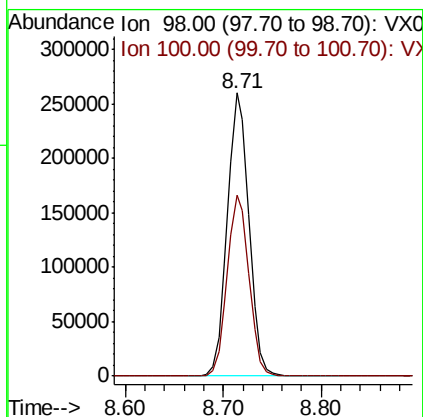
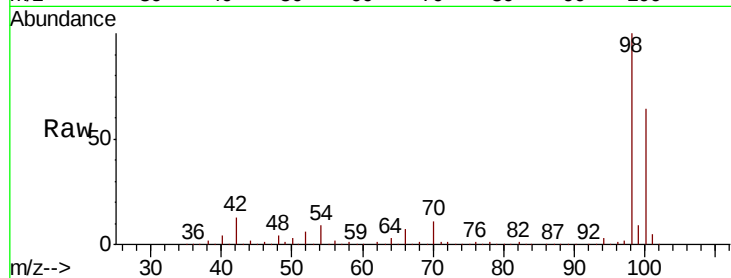




#50
Toluene-d8
Concen: 48.531 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

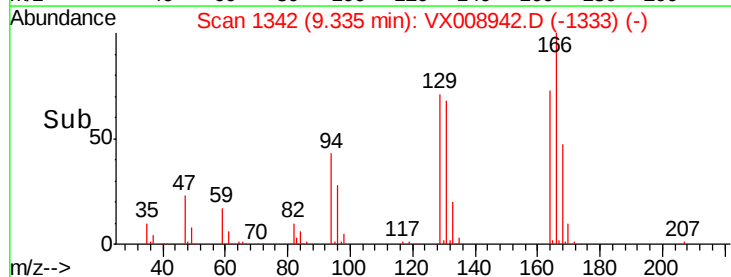
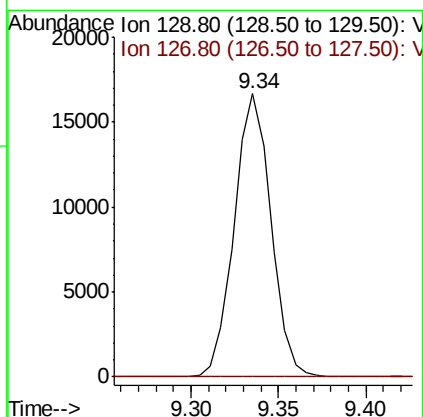
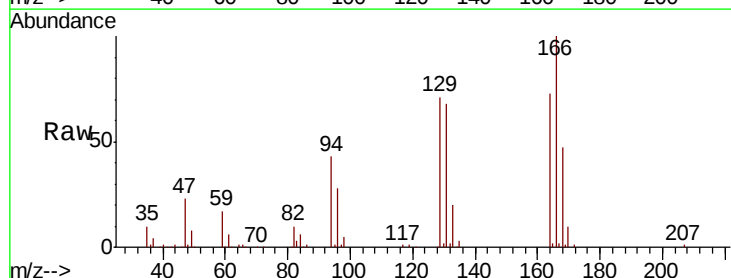
Instrument :
MSVOA_X
ClientSampleId :

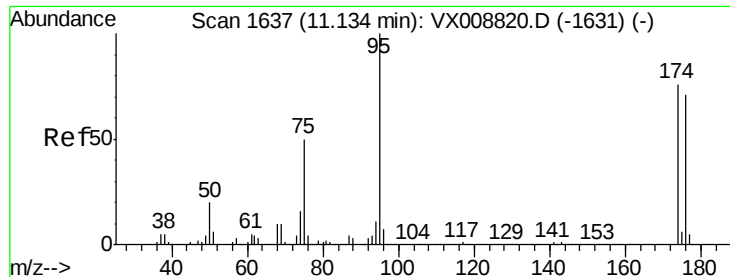
Tot Ion: 98 Resp: 398359
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



#60
Dibromochloromethane
Concen: 10.381 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008942.D
Acq: 13 Apr 2019 19:16

Tgt Ion:129 Resp: 24308
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 45.538 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

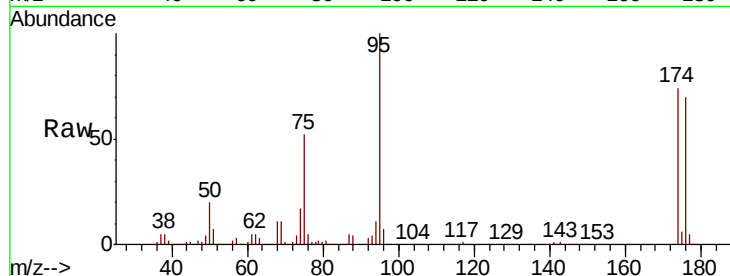
Tot Ion: 95 Resp: 132553

Ion Ratio Lower Upper

95 100

174 79.4 0.0 151.8

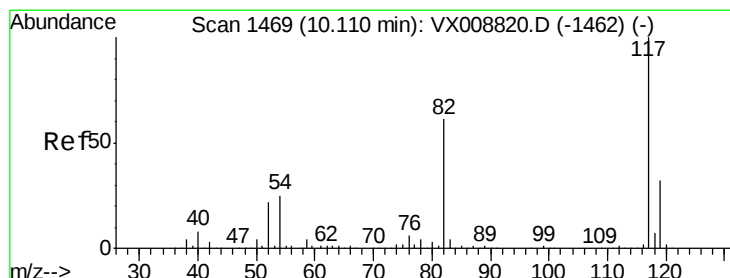
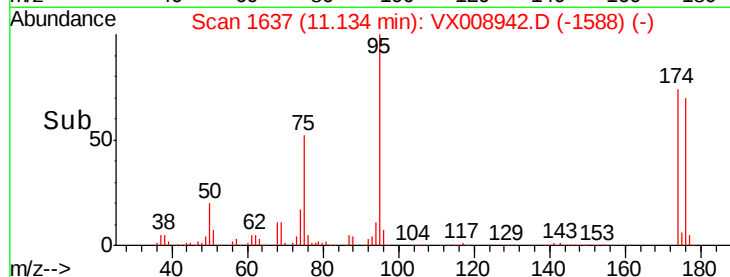
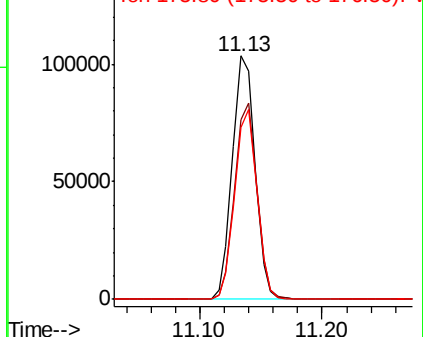
176 76.6 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008820.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX008820.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX008820.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

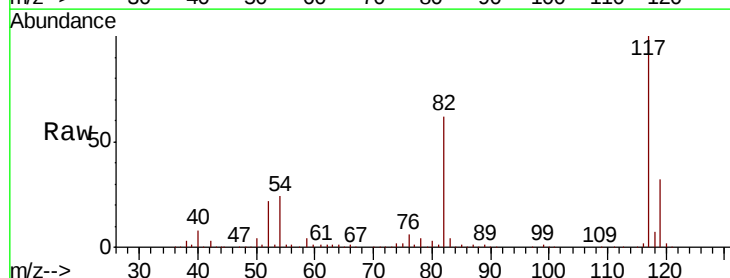
Tgt Ion: 117 Resp: 277227

Ion Ratio Lower Upper

117 100

82 61.6 49.6 74.4

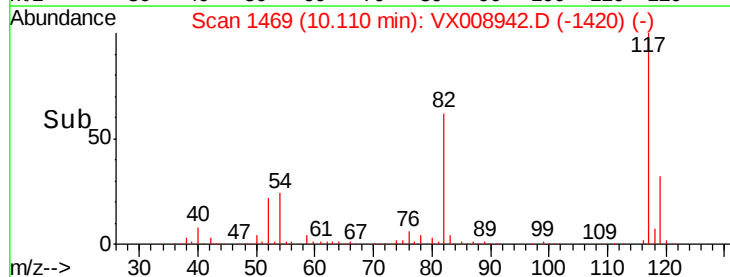
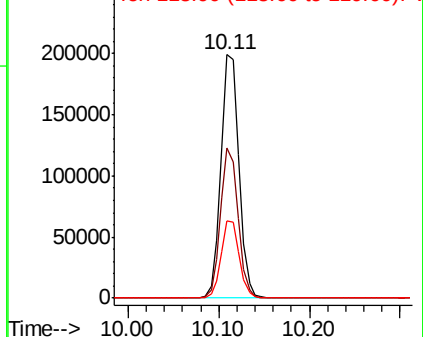
119 31.9 25.0 37.4

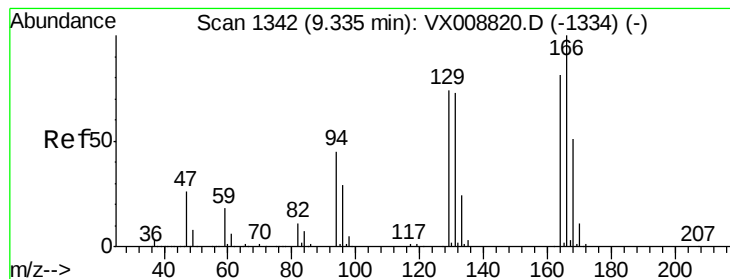


Abundance Ion 116.90 (116.60 to 117.60): VX008820.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008820.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008820.D (-1462) (-)





#64

Tetrachloroethene

Concen: 12.489 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX008942.D

Acq: 13 Apr 2019 19:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 25651

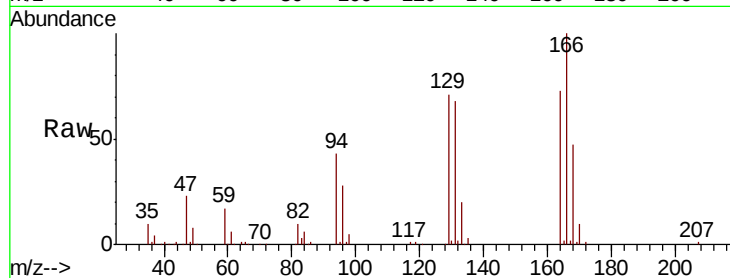
Ion Ratio Lower Upper

164 100

166 137.1 101.0 151.6

129 97.2 75.8 113.8

131 93.5 71.8 107.8

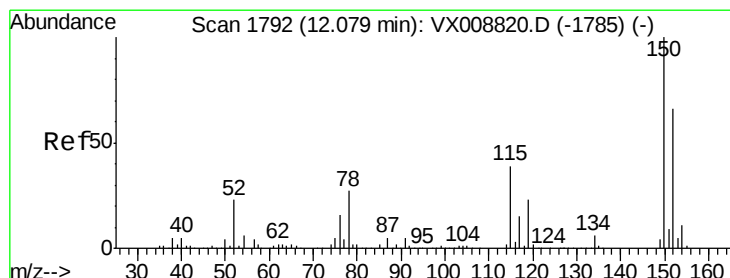
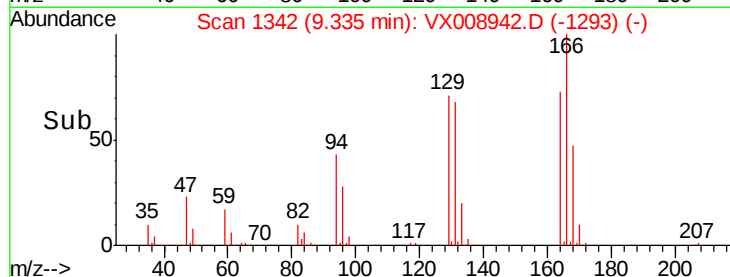
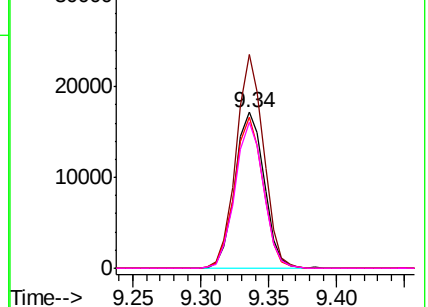


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX008942.D

Acq: 13 Apr 2019 19:16

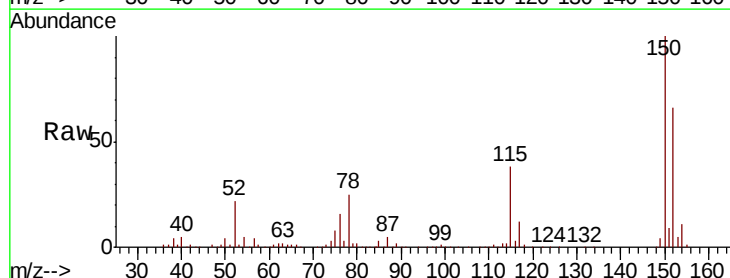
Tgt Ion:152 Resp: 117833

Ion Ratio Lower Upper

152 100

115 58.7 43.5 130.5

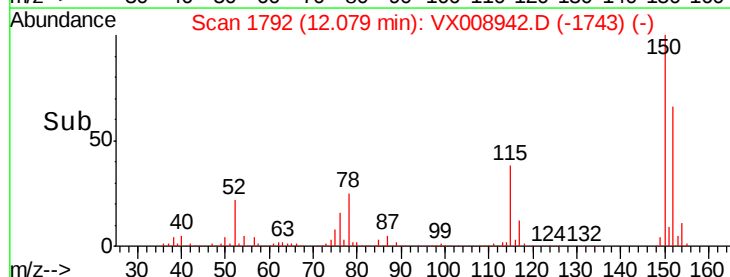
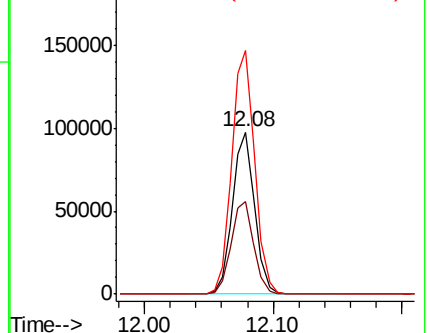
150 155.8 0.0 348.8

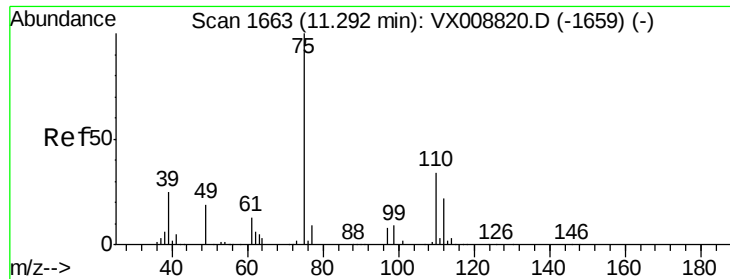


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

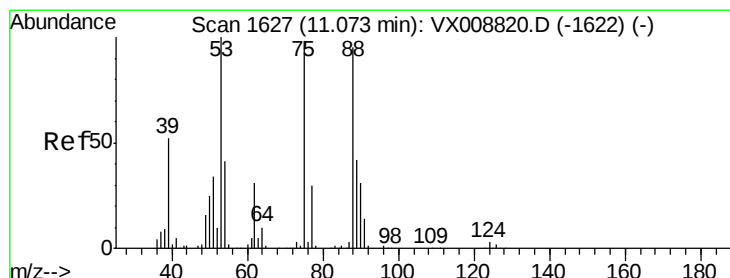
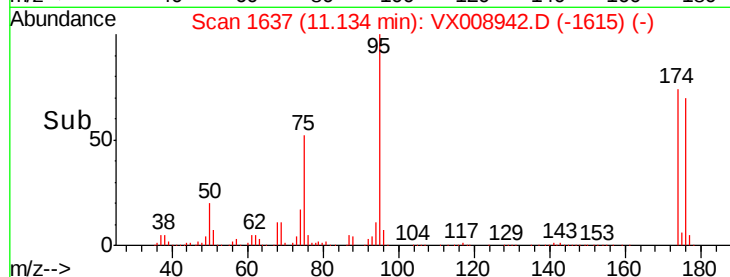
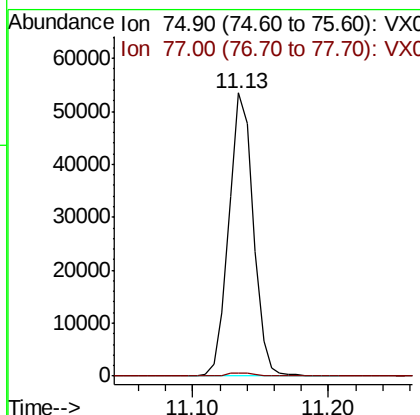
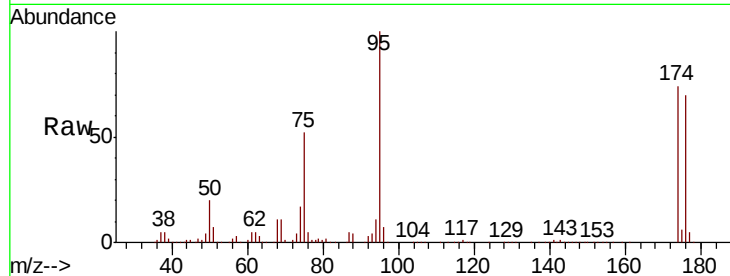




#76
 1,2,3-Trichloropropane
 Concen: 20.668 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008942.D
 Acq: 13 Apr 2019 19:16

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 66902
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.3 66.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.972 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008942.D
 Acq: 13 Apr 2019 19:16

Tgt Ion: 75 Resp: 66902
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.3 121.9#
 89 0.0 35.6 53.4#

