

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042219\
 Data File : VX009103.D
 Acq On : 22 Apr 2019 17:32
 Operator : JC/SP
 Sample : K2516-01DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 P041919DL

Quant Time: Apr 23 02:34:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	249597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	399502	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	348899	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	151065	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	163907	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
35) Dibromofluoromethane	5.50	113	120859	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
50) Toluene-d8	8.71	98	503452	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
62) 4-Bromofluorobenzene	11.13	95	167316	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	

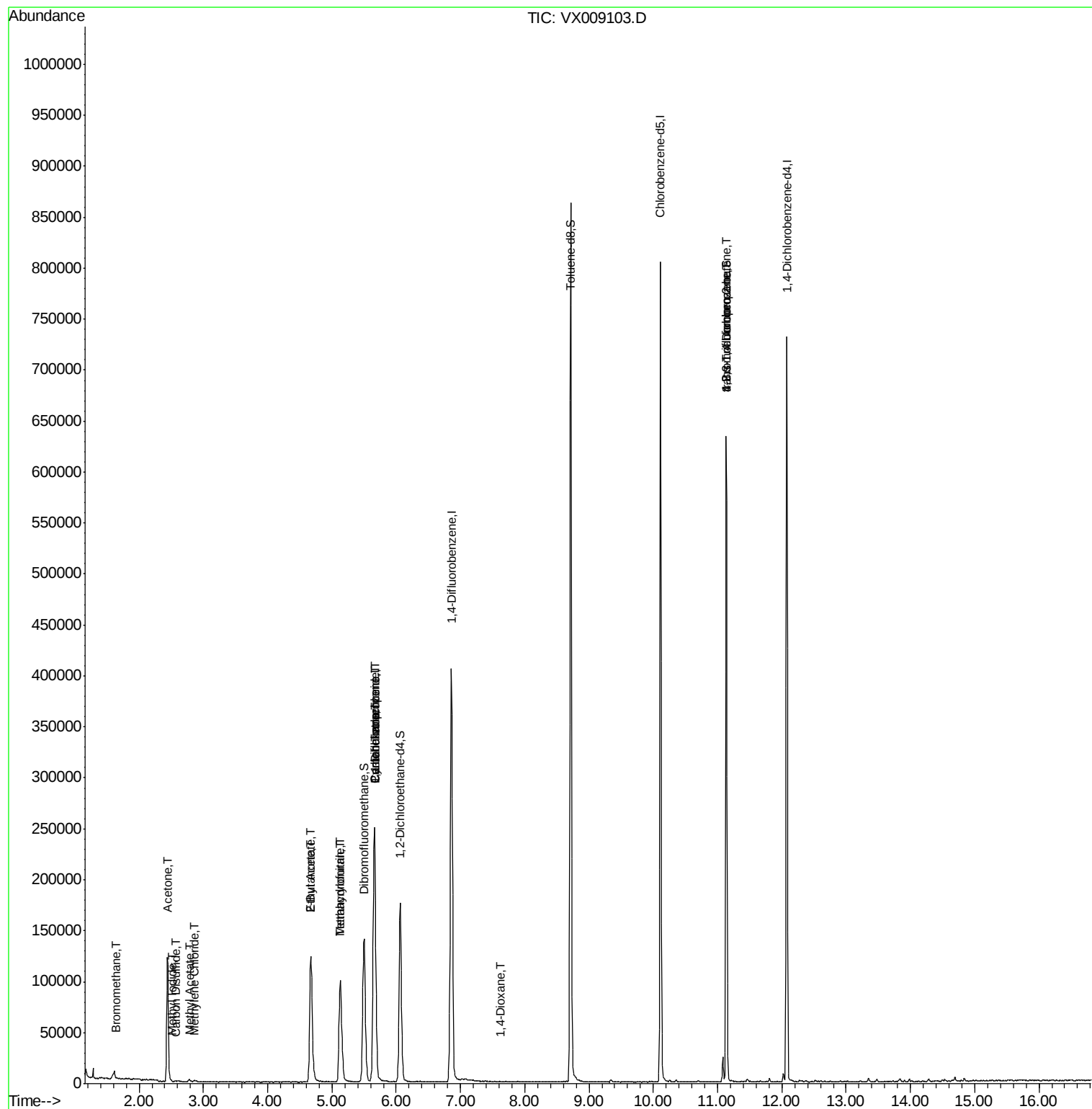
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	104	3.893	ug/l #	80
10) Methyl Iodide	2.52	142	23	4.422	ug/l #	42
16) Acetone	2.44	43	134154	73.545	ug/l	99
17) Carbon Disulfide	2.57	76	412	1.304	ug/l #	54
18) Methyl Acetate	2.78	43	3437	0.755	ug/l #	89
20) Methylene Chloride	2.85	84	764	0.245	ug/l #	72
25) 2-Butanone	4.67	43	229426	78.686	ug/l	99
28) Bromochloromethane	5.01	49	81	Below Cal	#	21
29) Tetrahydrofuran	5.13	42	102733	52.642	ug/l	98
31) Cyclohexane	5.67	56	5519	0.985	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19450	4.707	ug/l #	50
37) Ethyl Acetate	4.67	43	229426	43.153	ug/l #	70
38) Carbon Tetrachloride	5.66	117	23478	6.703	ug/l #	17
41) Methacrylonitrile	5.13	41	55661	18.242	ug/l #	47
49) 1,4-Dioxane	7.62	88	23	0.290	ug/l #	19
76) 1,2,3-Trichloropropane	11.13	75	85318	23.130	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	85318	59.380	ug/l #	11

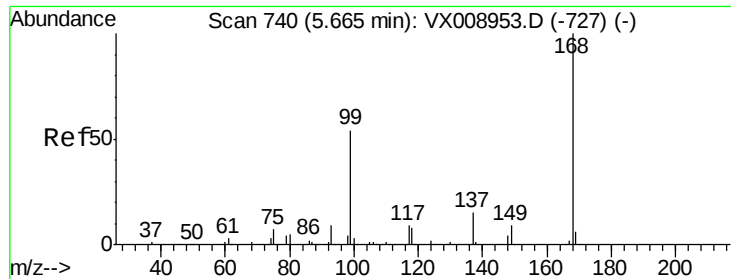
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

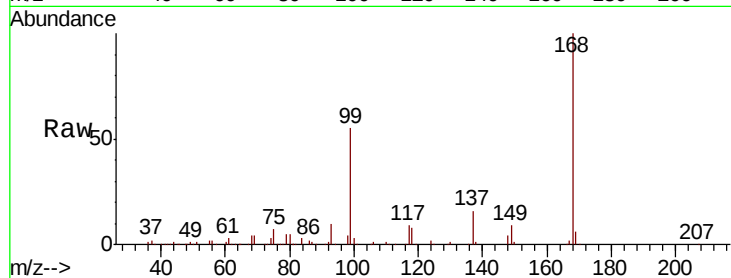
P041919DL

Tot Ion:168 Resp: 249597

Ion Ratio Lower Upper

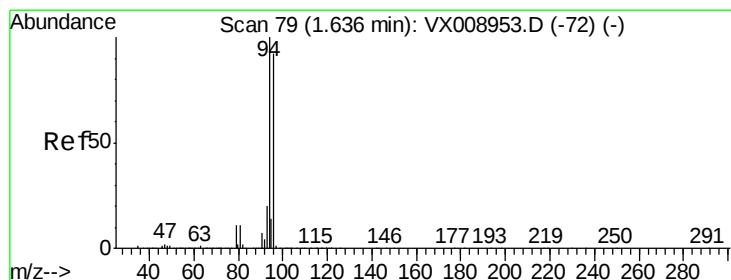
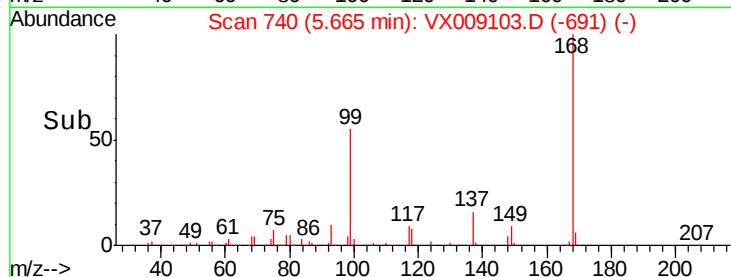
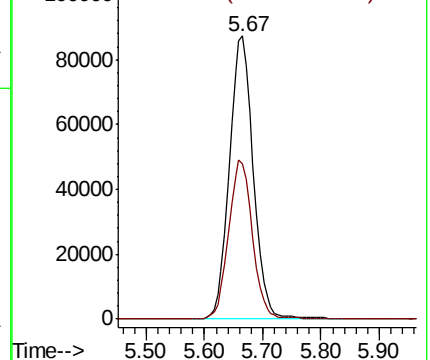
168 100

99 55.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): VX008953.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX008953.D (-727) (-)



#5

Bromomethane

Concen: 3.893 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009103.D

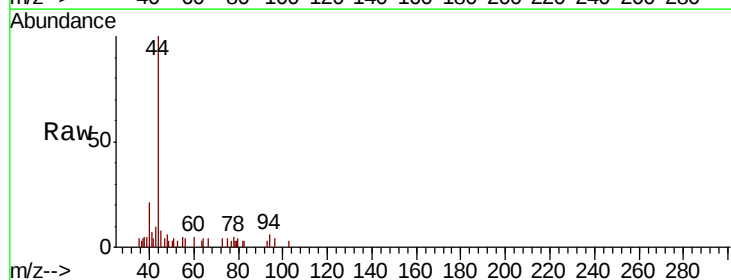
Acq: 22 Apr 2019 17:32

Tgt Ion: 94 Resp: 104

Ion Ratio Lower Upper

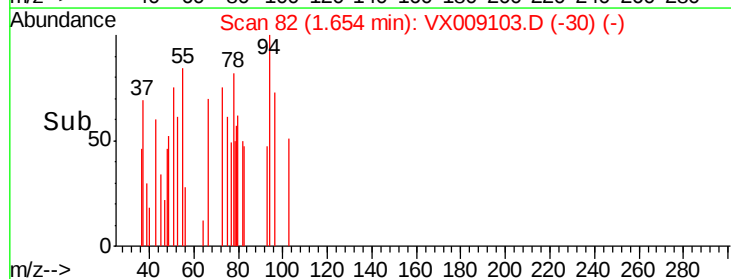
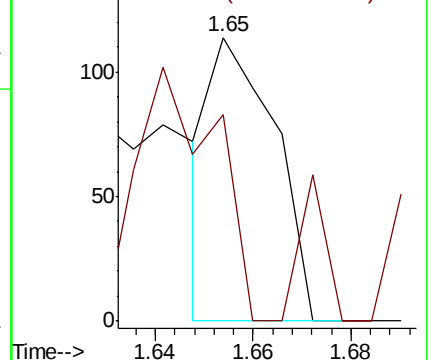
94 100

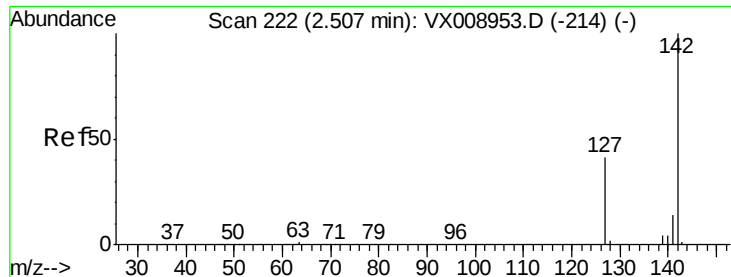
96 72.8 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX008953.D (-72) (-)

Ion 95.90 (95.60 to 96.60): VX008953.D (-72) (-)

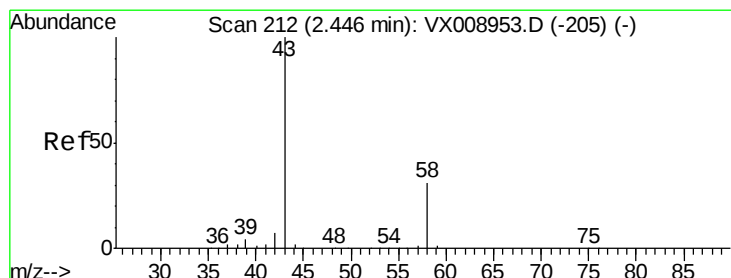
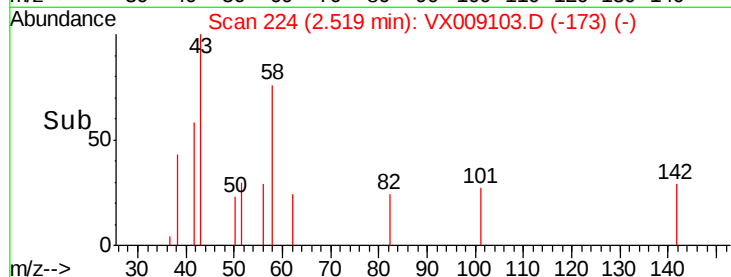
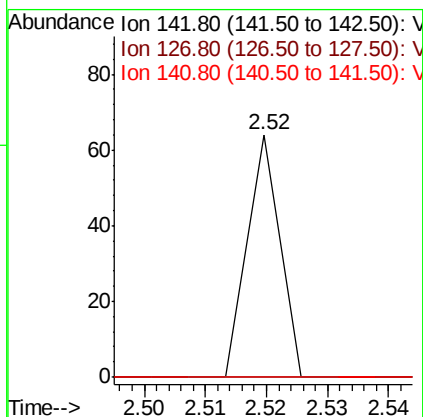
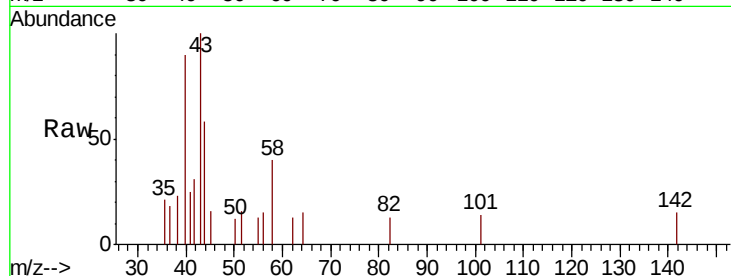




#10
Methvl Iodide
Concen: 4.422 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009103.D
Acq: 22 Apr 2019 17:32

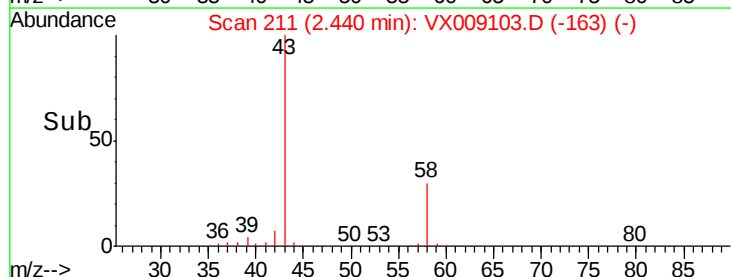
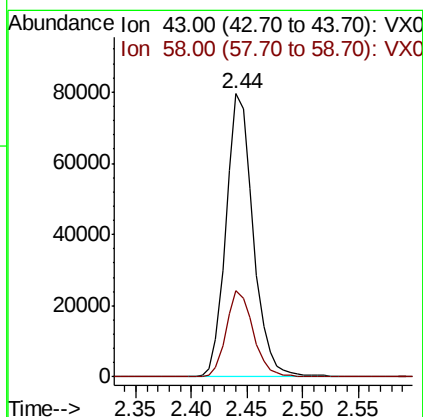
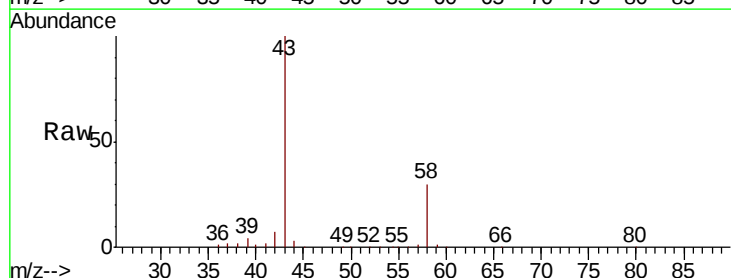
Instrument :
MSVOA_X
ClientSampleId :
P041919DL

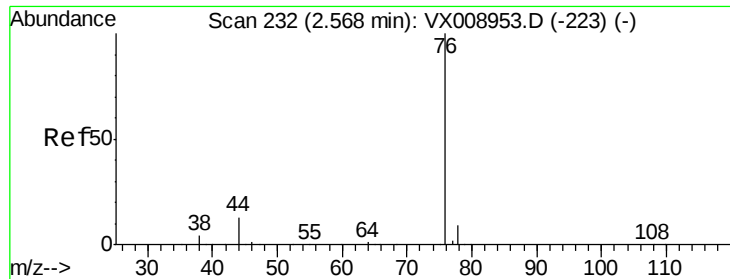
Tot Ion:142 Resp: 23
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#



#16
Acetone
Concen: 73.545 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009103.D
Acq: 22 Apr 2019 17:32

Tgt Ion: 43 Resp: 134154
Ion Ratio Lower Upper
43 100
58 30.3 24.8 37.2





#17

Carbon Disulfide

Concen: 1.304 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

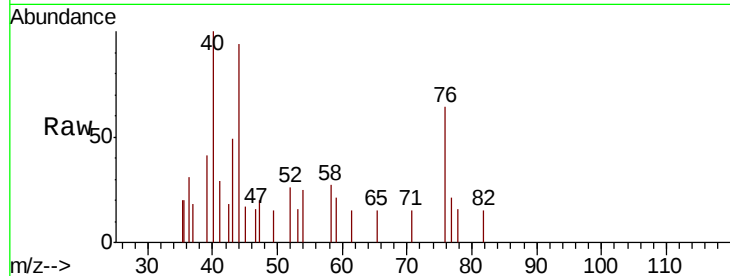
P041919DL

Tot Ion: 76 Resp: 412

Ion Ratio Lower Upper

76 100

78 25.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

200

150

100

50

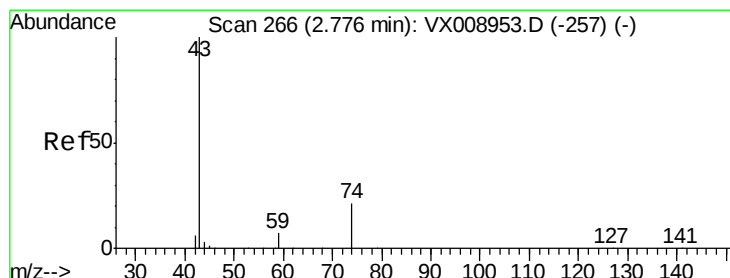
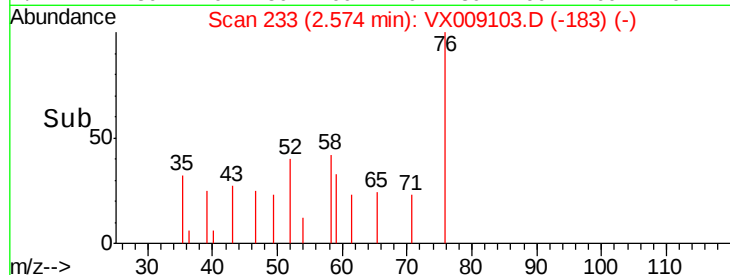
0

2.50

2.55

2.60

Time-->



#18

Methyl Acetate

Concen: 0.755 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX009103.D

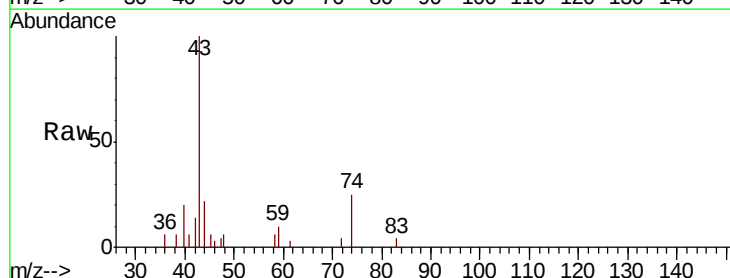
Acq: 22 Apr 2019 17:32

Tgt Ion: 43 Resp: 3437

Ion Ratio Lower Upper

43 100

74 25.8 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

1500

1000

500

0

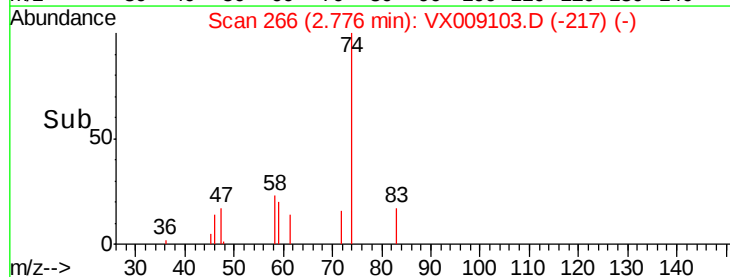
2.70

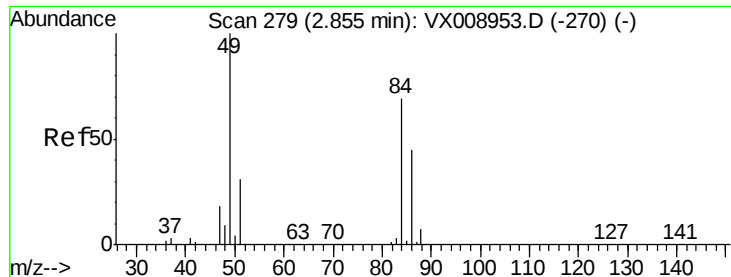
2.75

2.80

2.85

Time-->

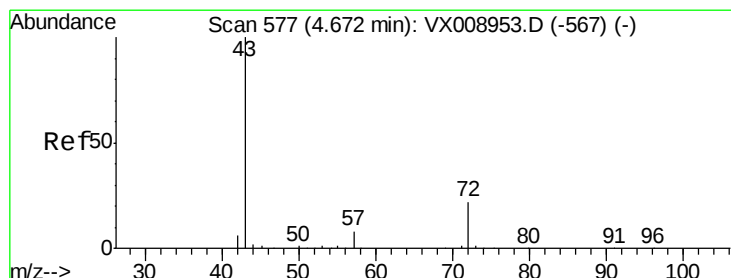
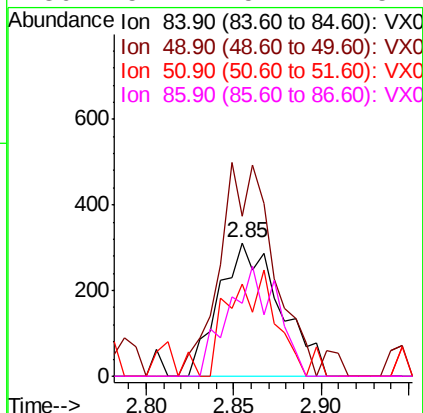
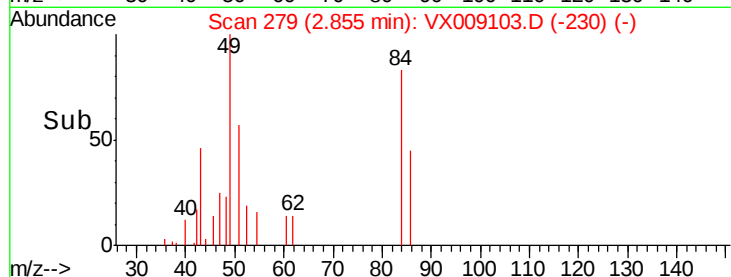
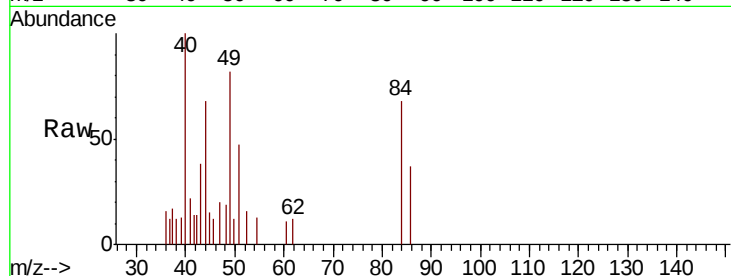




#20
Methvlene Chloride
Concen: 0.245 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX009103.D
Acq: 22 Apr 2019 17:32

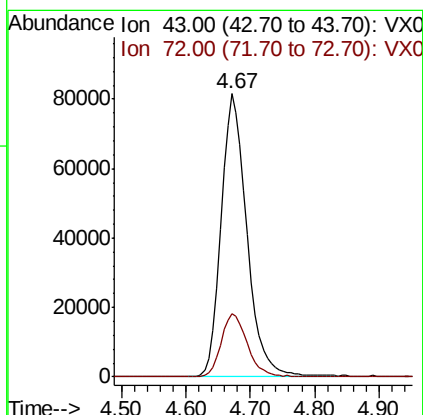
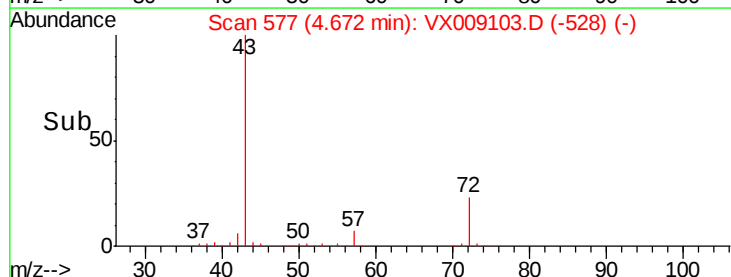
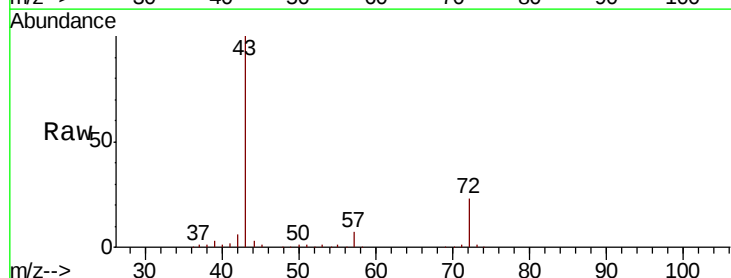
Instrument :
MSVOA_X
ClientSampleId :
P041919DL

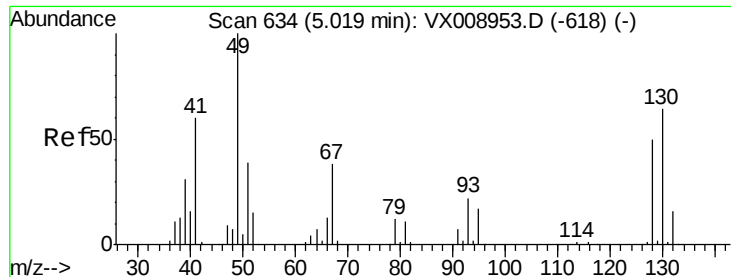
Tot Ion: 84 Resp: 764
Ion Ratio Lower Upper
84 100
49 104.2 115.4 173.0#
51 68.8 35.8 53.6#
86 54.7 52.1 78.1



#25
2-Butanone
Concen: 78.686 ug/l
RT: 4.67 min Scan# 577
Delta R.T. -0.00 min
Lab File: VX009103.D
Acq: 22 Apr 2019 17:32

Tgt Ion: 43 Resp: 229426
Ion Ratio Lower Upper
43 100
72 22.5 17.5 26.3





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleID :

P041919DL

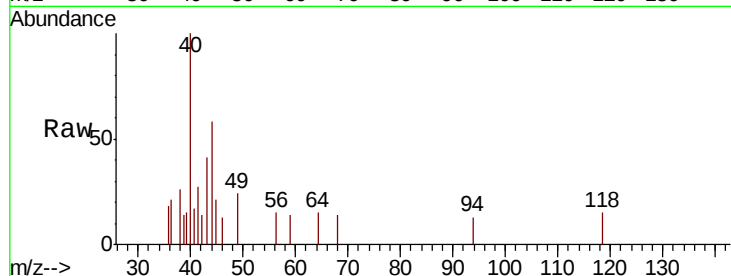
Tot Ion: 49 Resp: 81

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

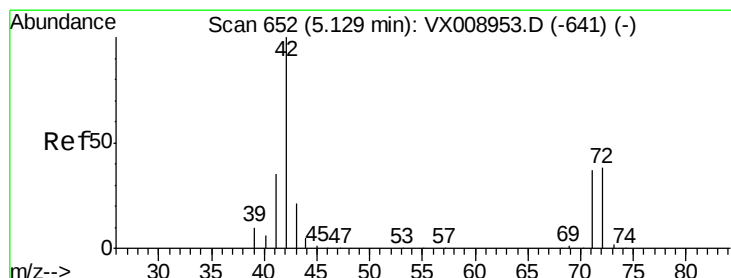
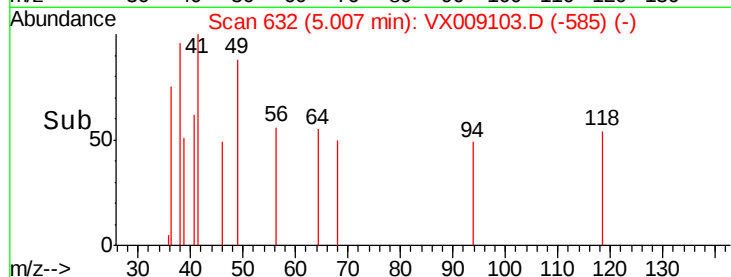
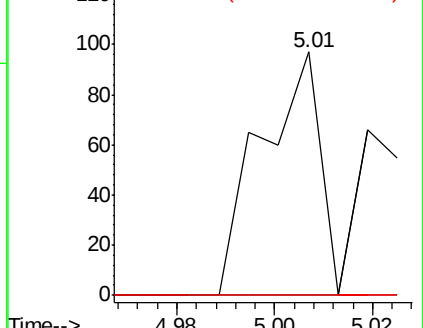
130 0.0 50.4 75.6#



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



#29

Tetrahydrofuran

Concen: 52.642 ug/l

RT: 5.13 min Scan# 652

Delta R.T. -0.00 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

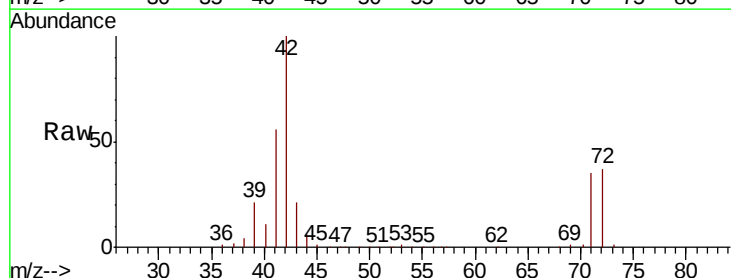
Tgt Ion: 42 Resp: 102733

Ion Ratio Lower Upper

42 100

72 36.7 30.6 45.8

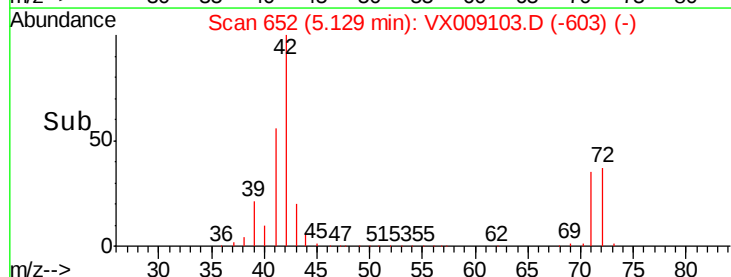
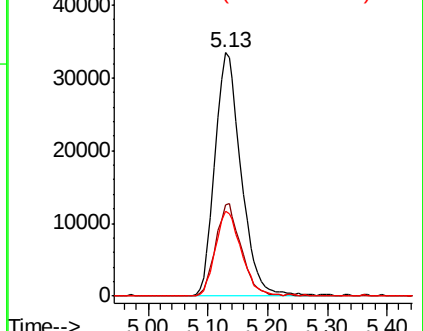
71 34.5 28.8 43.2

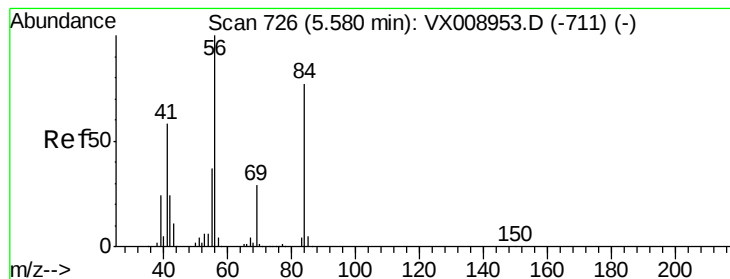


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.985 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

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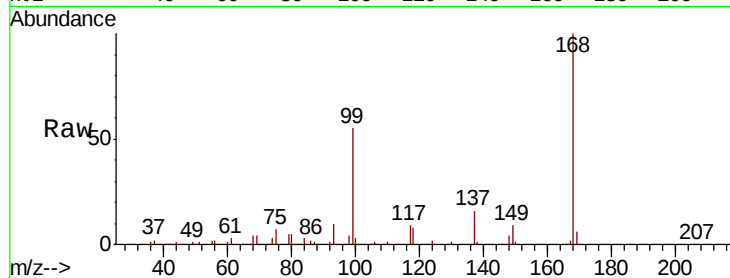
Tot Ion: 56 Resp: 5519

Ion Ratio Lower Upper

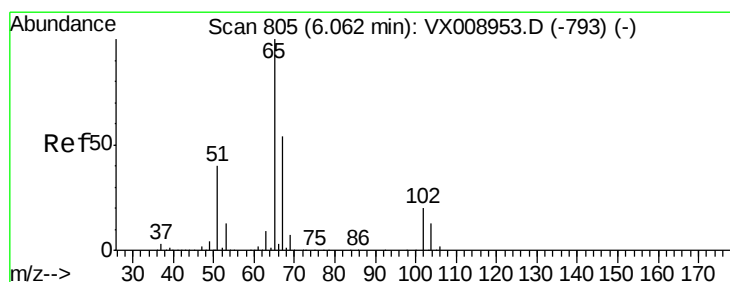
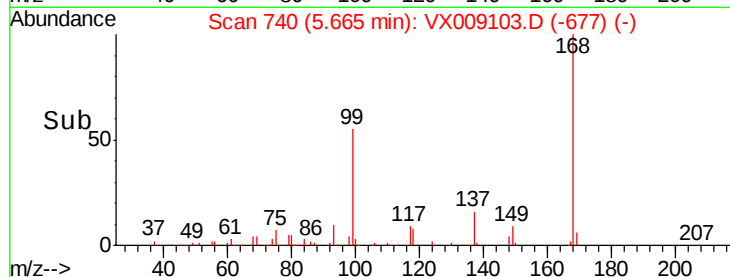
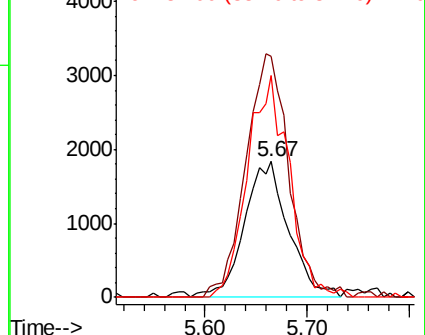
56 100

69 177.7 23.3 34.9#

84 162.8 61.7 92.5#



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: 46.597 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009103.D

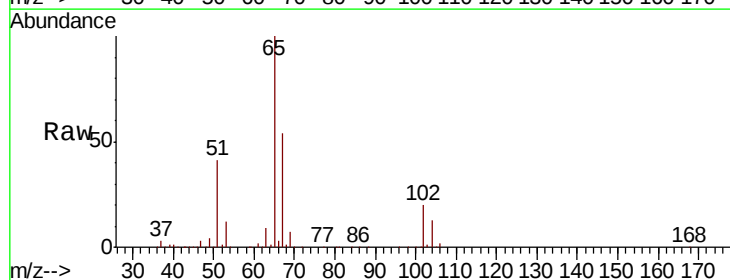
Acq: 22 Apr 2019 17:32

Tgt Ion: 65 Resp: 163907

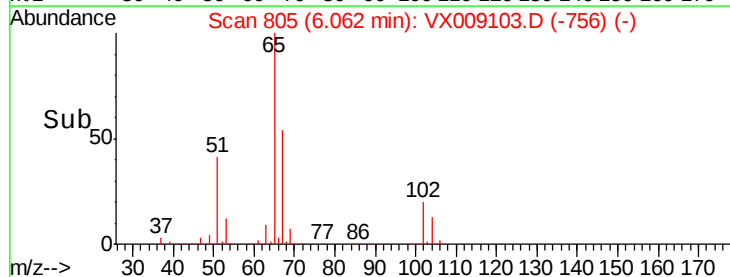
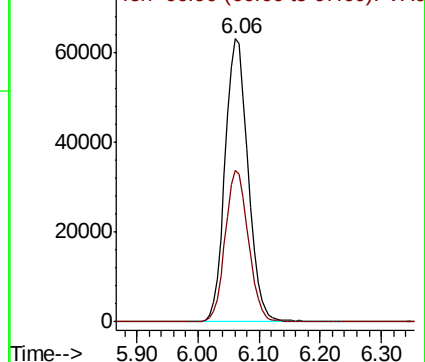
Ion Ratio Lower Upper

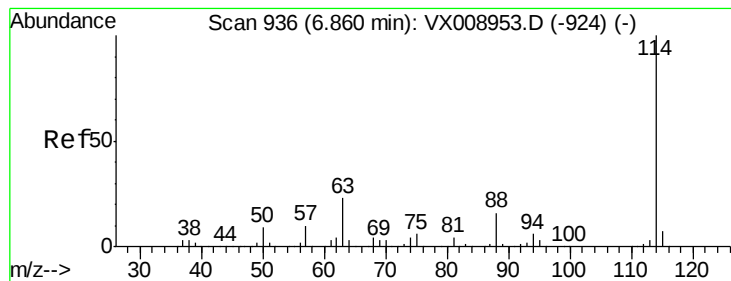
65 100

67 53.9 0.0 108.6



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: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

P041919DL

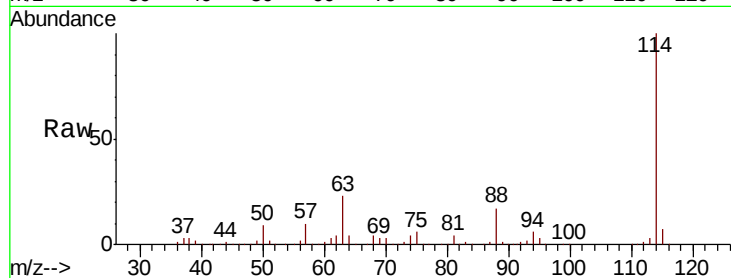
Tot Ion:114 Resp: 399502

Ion Ratio Lower Upper

114 100

63 23.5 0.0 46.0

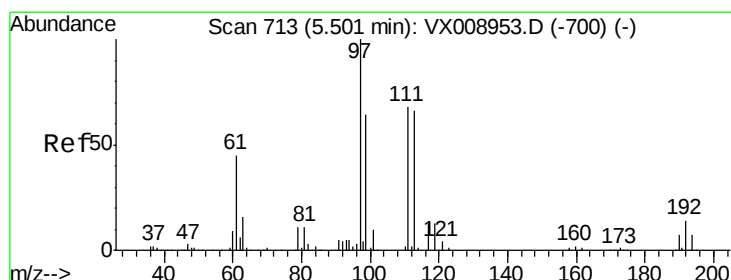
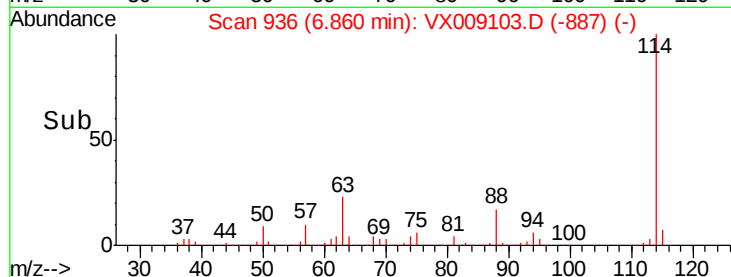
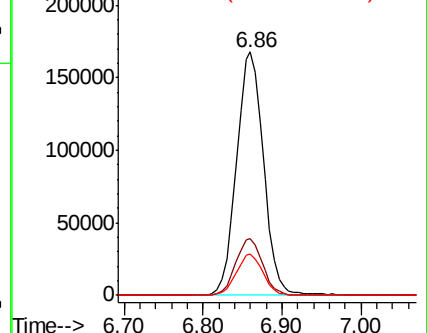
88 16.8 0.0 32.6



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: 47.139 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

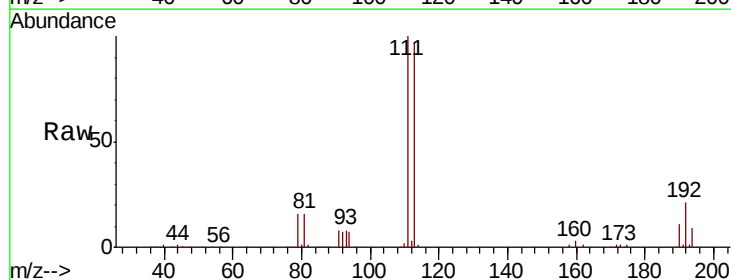
Tgt Ion:113 Resp: 120859

Ion Ratio Lower Upper

113 100

111 103.7 82.9 124.3

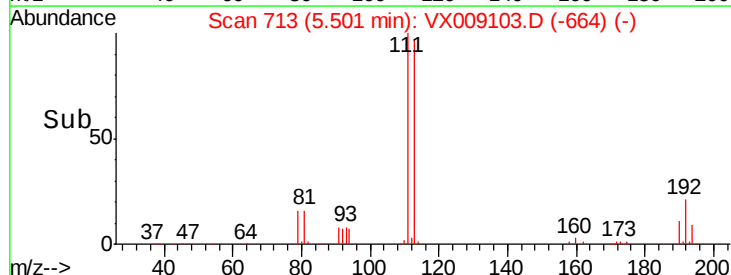
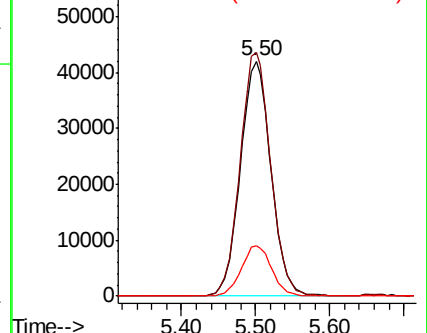
192 21.3 17.4 26.0

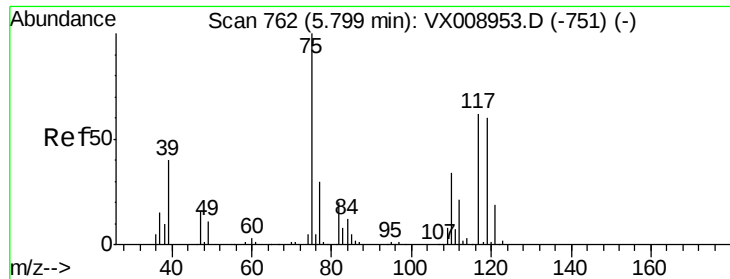


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

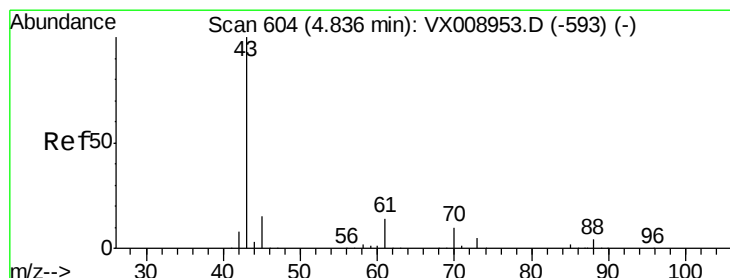
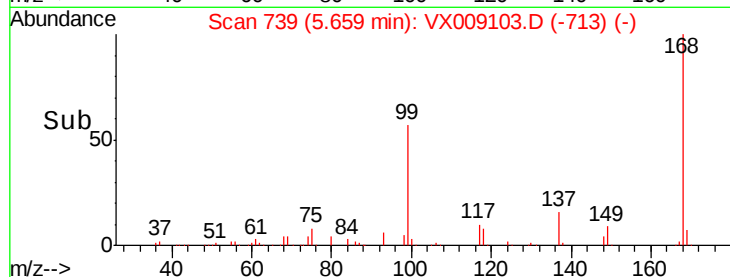
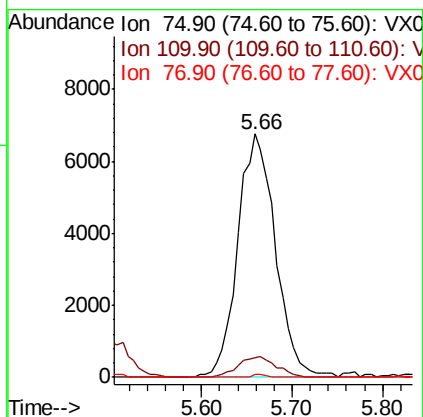
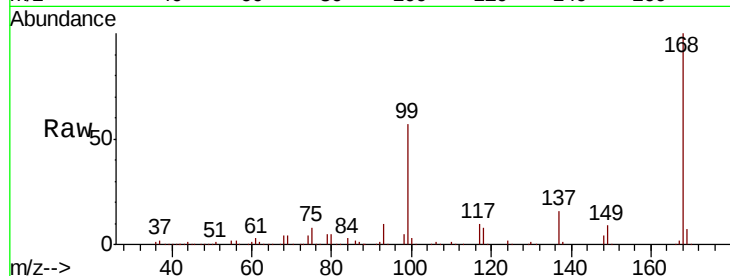




#36
 1,1-Dichloropropene
 Concen: 4.707 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009103.D
 Acq: 22 Apr 2019 17:32

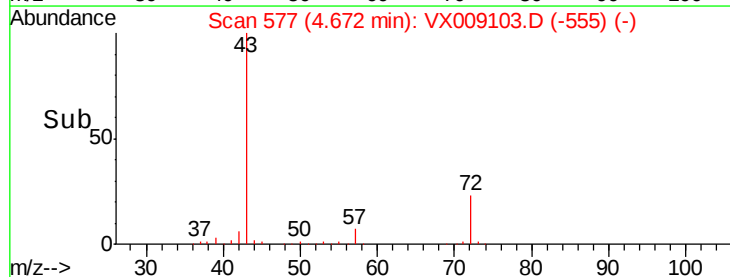
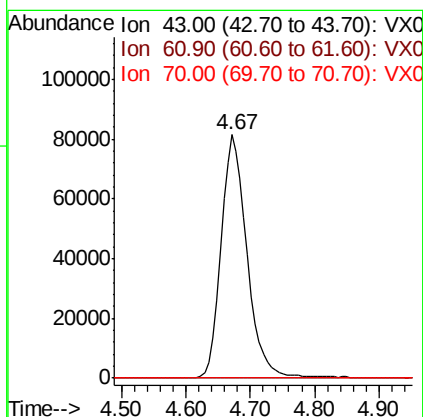
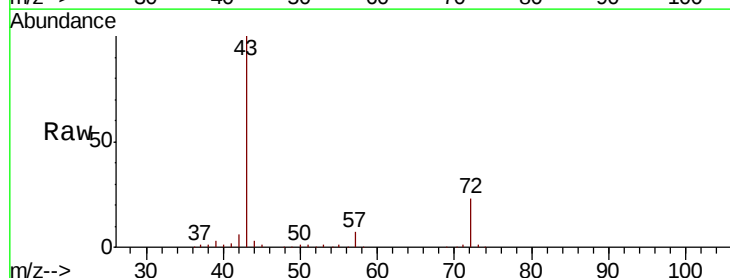
Instrument :
 MSVOA_X
 ClientSampleID :
 P041919DL

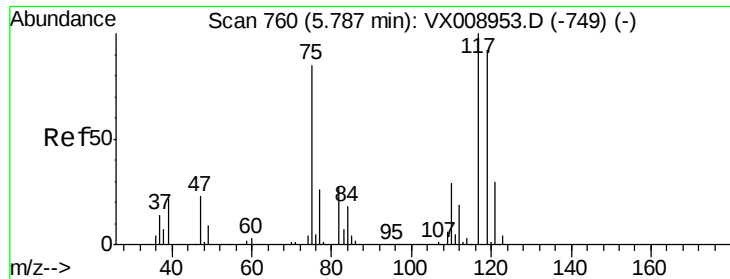
Tot Ion: 75 Resp: 19450
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.9 50.7#
 77 0.4 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 43.153 ug/l
 RT: 4.67 min Scan# 577
 Delta R.T. -0.16 min
 Lab File: VX009103.D
 Acq: 22 Apr 2019 17:32

Tgt Ion: 43 Resp: 229426
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.7 11.5#

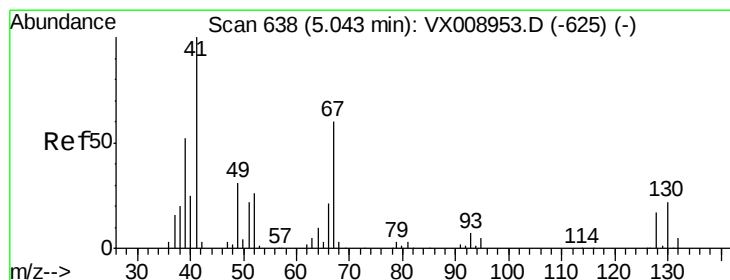
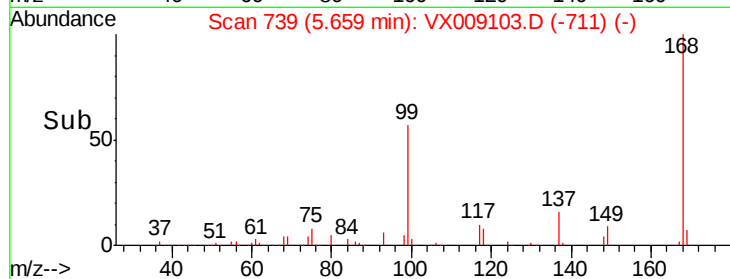
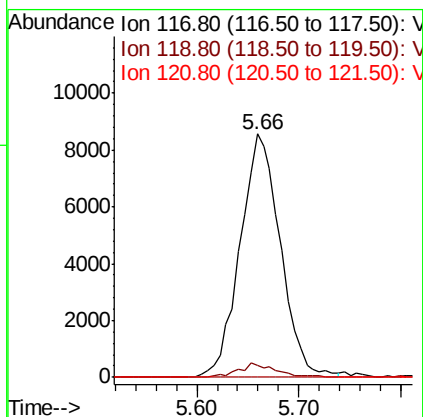
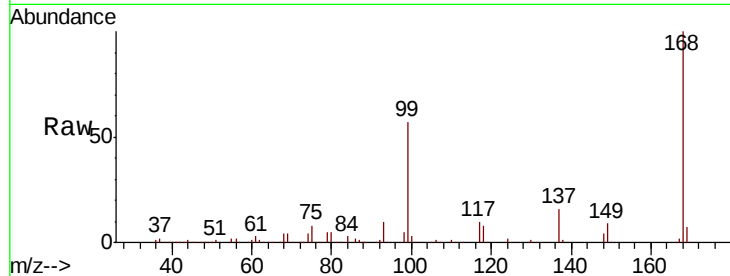




#38
Carbon Tetrachloride
Concen: 6.703 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX009103.D
Acq: 22 Apr 2019 17:32

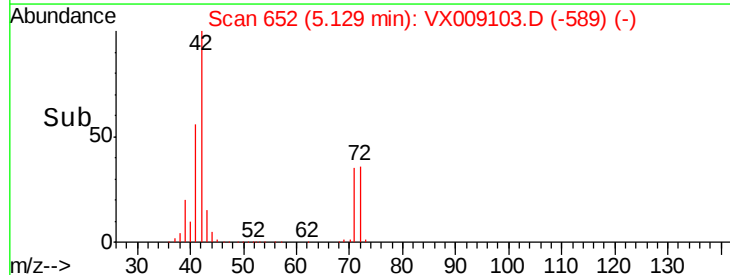
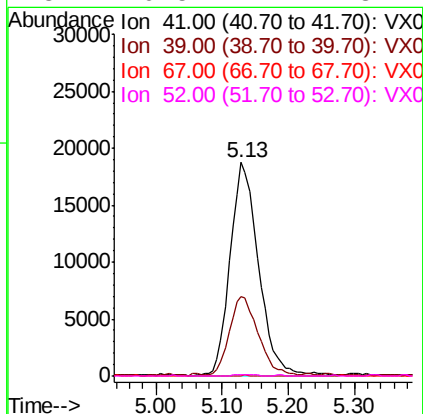
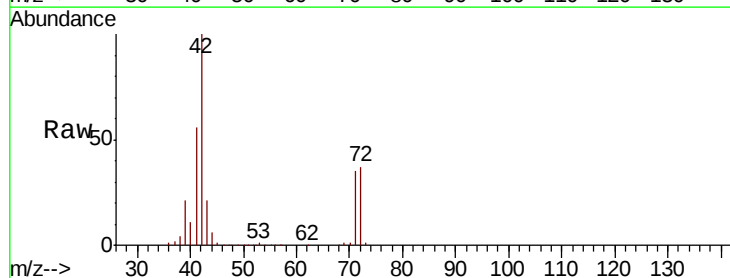
Instrument :
MSVOA_X
ClientSampled :
P041919DL

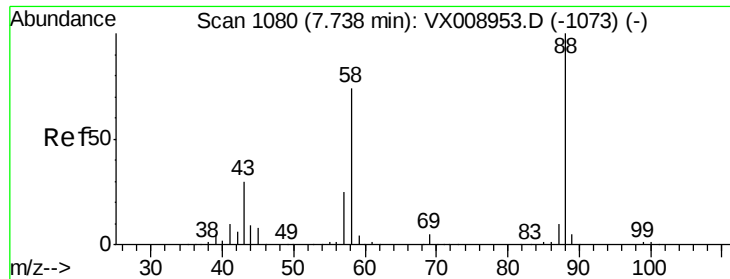
Tot Ion:117 Resp: 23478
Ion Ratio Lower Upper
117 100
119 4.9 73.8 110.8#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 18.242 ug/l
RT: 5.13 min Scan# 652
Delta R.T. 0.09 min
Lab File: VX009103.D
Acq: 22 Apr 2019 17:32

Tgt Ion: 41 Resp: 55661
Ion Ratio Lower Upper
41 100
39 37.4 41.8 62.6#
67 0.0 50.2 75.4#
52 0.5 21.1 31.7#





#49

1,4-Dioxane

Concen: 0.290 ug/l

RT: 7.62 min Scan# 1061

Delta R.T. -0.12 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleID :

P041919DL

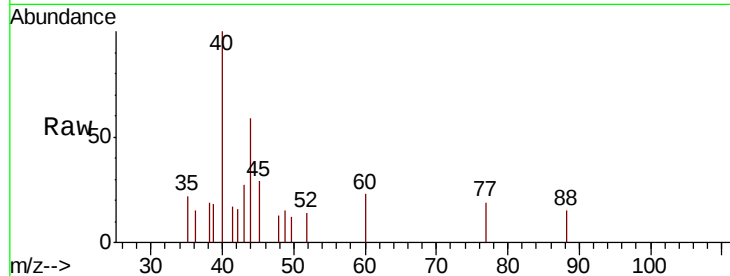
Tot Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

58 0.0 62.6 93.8#



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

200

150

100

50

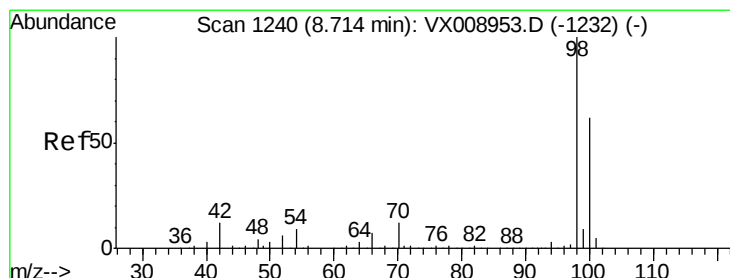
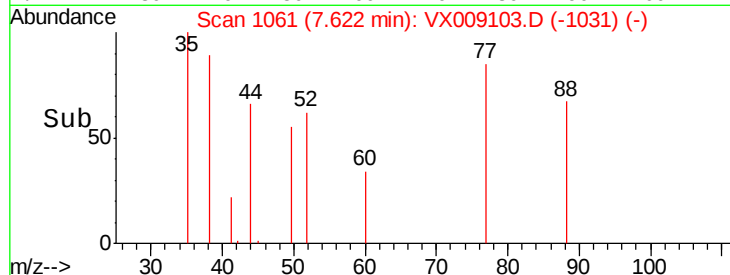
0

7.62

7.63

7.64

Time-->



#50

Toluene-d8

Concen: 49.237 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009103.D

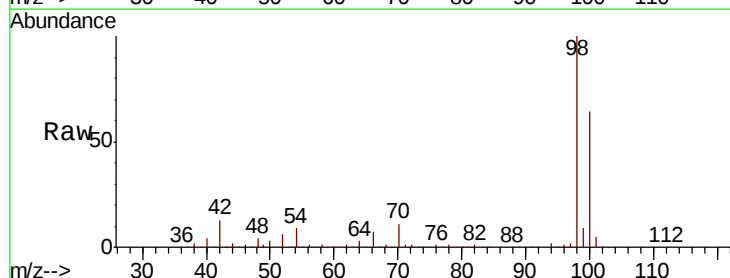
Acq: 22 Apr 2019 17:32

Tgt Ion: 98 Resp: 503452

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

300000

200000

100000

0

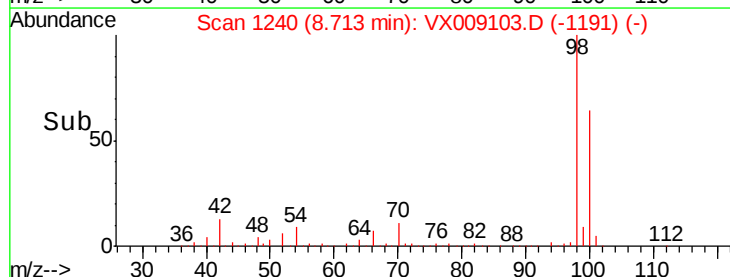
8.71

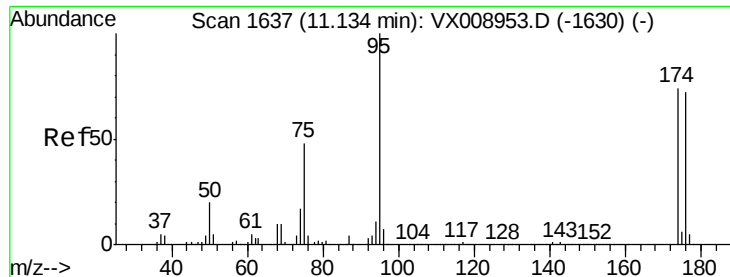
8.60

8.70

8.80

Time-->





#62

4-Bromofluorobenzene

Concen: 46.355 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

P041919DL

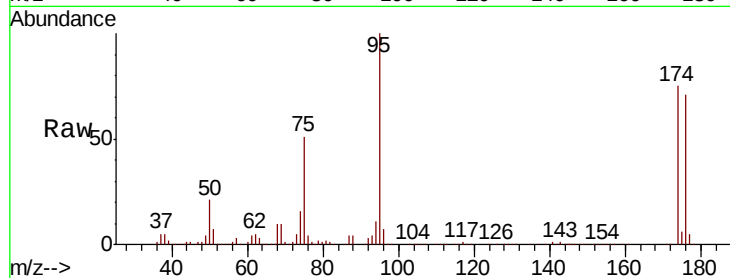
Tot Ion: 95 Resp: 167316

Ion Ratio Lower Upper

95 100

174 80.0 0.0 159.6

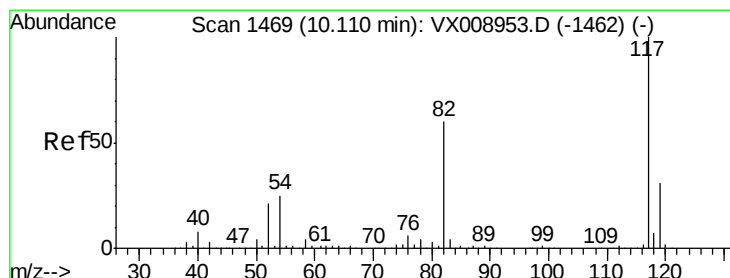
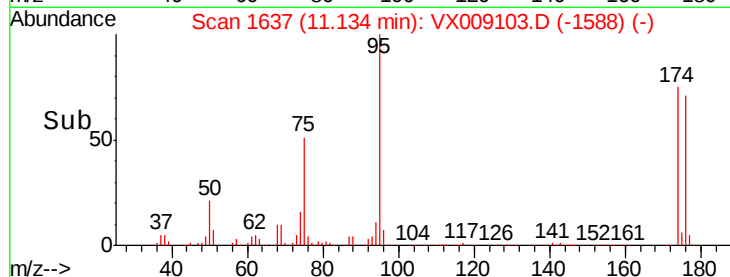
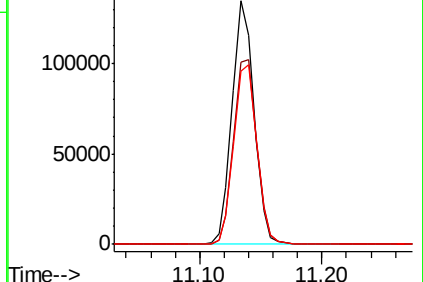
176 77.6 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

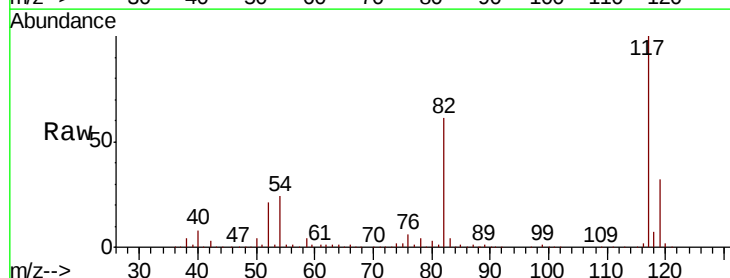
Tgt Ion: 117 Resp: 348899

Ion Ratio Lower Upper

117 100

82 61.3 48.2 72.4

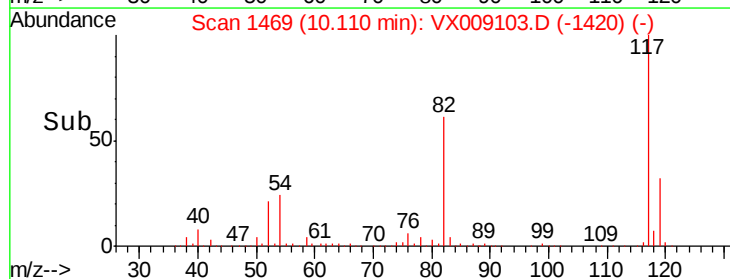
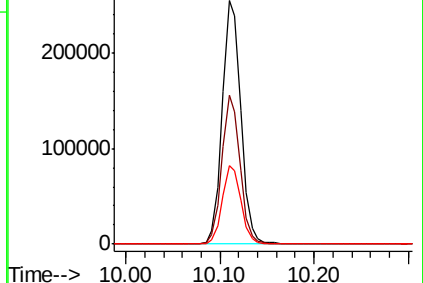
119 32.2 25.0 37.6

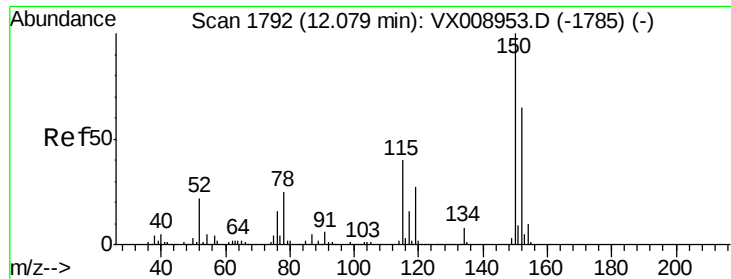


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

P041919DL

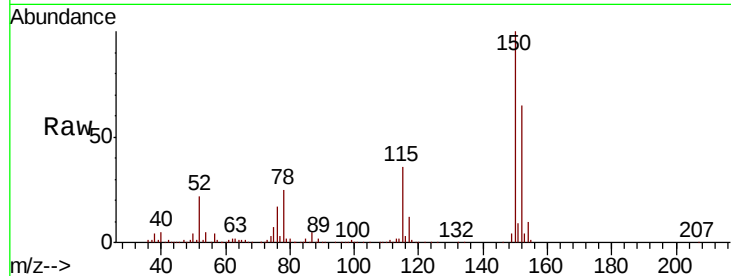
Tot Ion:152 Resp: 151065

Ion Ratio Lower Upper

152 100

115 59.1 41.4 124.2

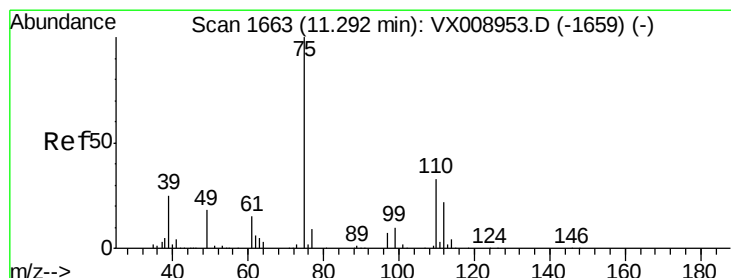
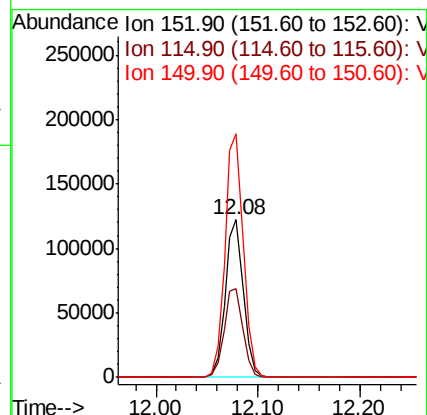
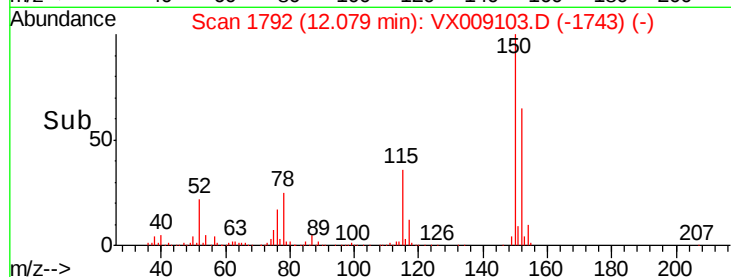
150 157.0 0.0 349.8



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: 23.130 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009103.D

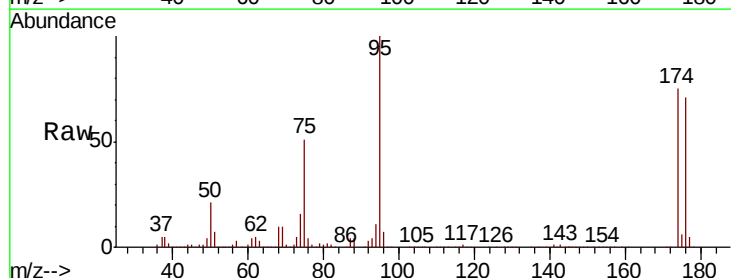
Acq: 22 Apr 2019 17:32

Tgt Ion: 75 Resp: 85318

Ion Ratio Lower Upper

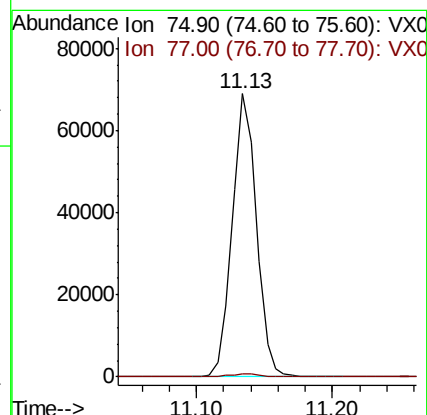
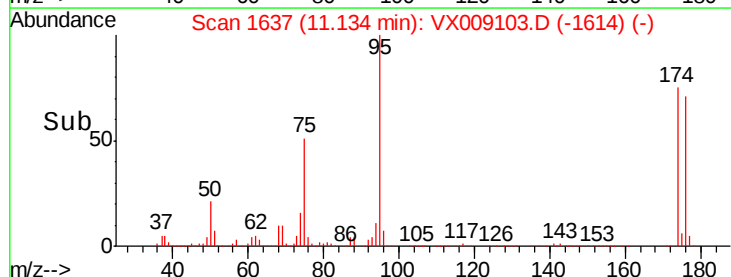
75 100

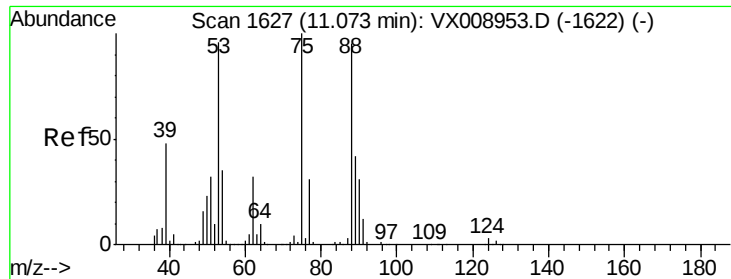
77 1.4 22.7 68.0#



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: 59.380 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009103.D

Acq: 22 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

P041919DL

Tot Ion: 75 Resp: 85318

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

