

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008888.D
 Acq On : 12 Apr 2019 15:54
 Operator : JC/SP
 Sample : K2366-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ124-20190409

Quant Time: Apr 13 04:58:58 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	194684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	313269	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	272133	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	115208	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	129176	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
35) Dibromofluoromethane	5.50	113	93681	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
50) Toluene-d8	8.71	98	393749	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
62) 4-Bromofluorobenzene	11.13	95	130725	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	

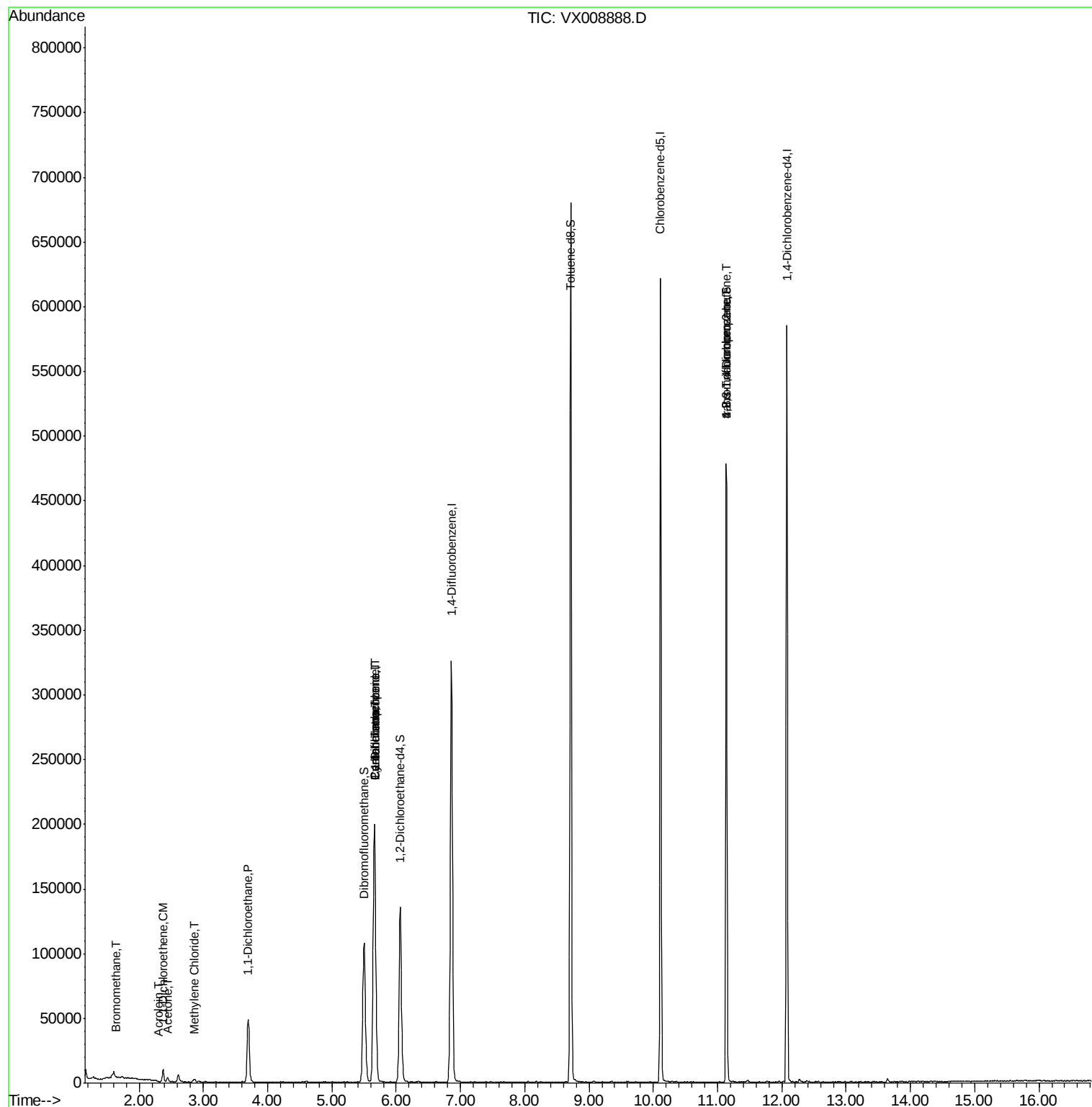
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	398	Below Cal		100
5) Bromomethane	1.64	94	142	1.977 ug/l		99
6) Chloroethane	1.73	64	1069	Below Cal	#	82
12) 1,1-Dichloroethene	2.37	96	3168	1.408 ug/l		96
13) Acrolein	2.30	56	84	0.255 ug/l		86
16) Acetone	2.45	43	3906	2.388 ug/l		98
17) Carbon Disulfide	2.57	76	690	Below Cal	#	75
20) Methylene Chloride	2.85	84	917	0.335 ug/l		88
24) 1,1-Dichloroethane	3.70	63	58387	11.875 ug/l		98
28) Bromochloromethane	5.02	49	24	Below Cal	#	22
31) Cyclohexane	5.67	56	4406	0.898 ug/l	#	1
36) 1,1-Dichloropropene	5.66	75	15398	4.497 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	18422	6.500 ug/l	#	17
76) 1,2,3-Trichloropropane	11.13	75	66837	21.118 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.13	75	66837	58.214 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: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

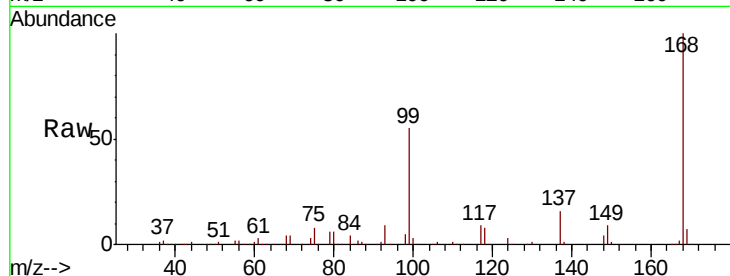
SA-PZ124-20190409

Tot Ion:168 Resp: 194684

Ion Ratio Lower Upper

168 100

99 55.4 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

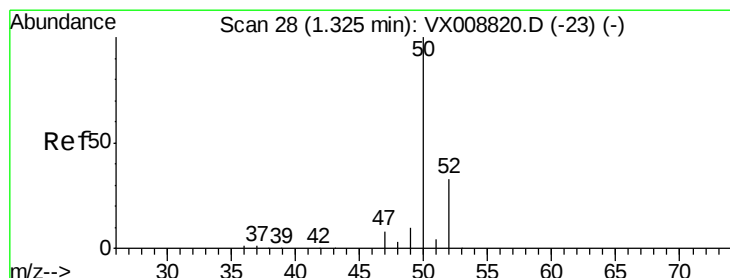
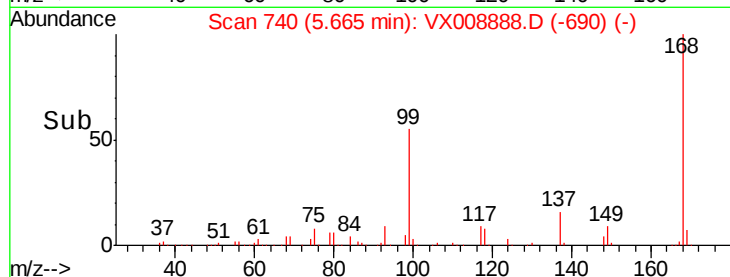
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008888.D

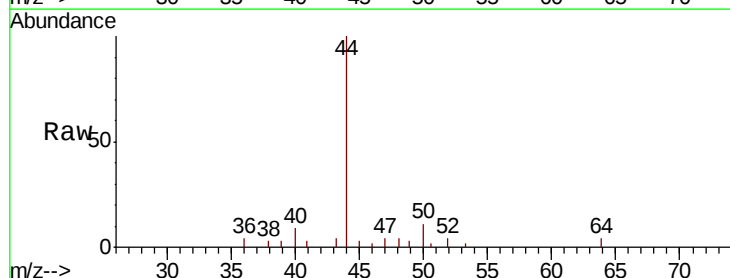
Acq: 12 Apr 2019 15:54

Tgt Ion: 50 Resp: 398

Ion Ratio Lower Upper

50 100

52 32.2 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

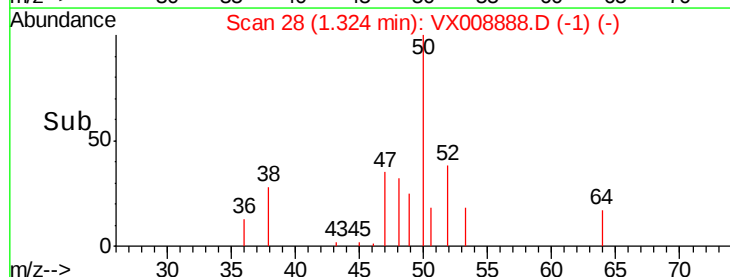
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 1.977 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

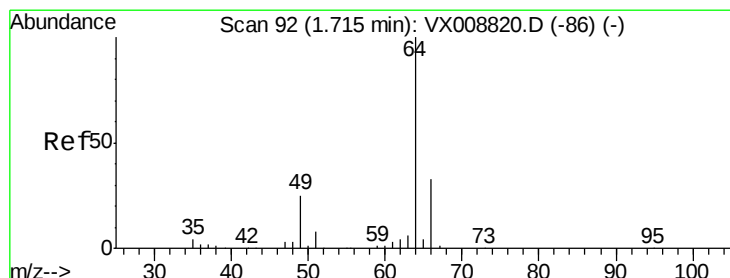
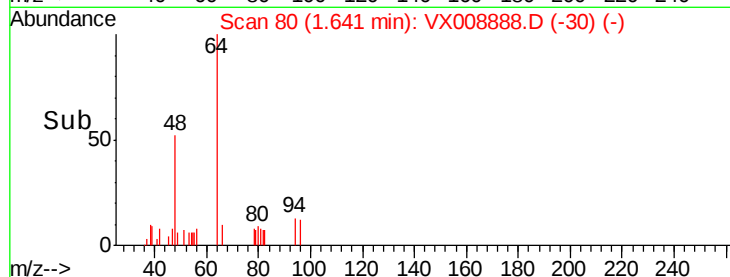
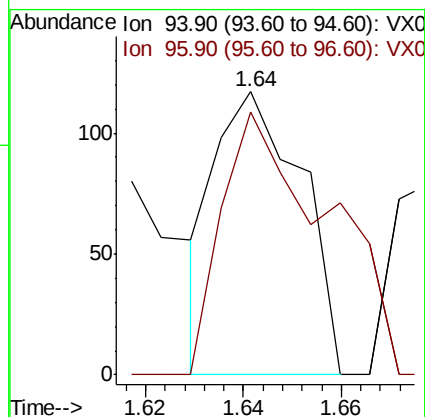
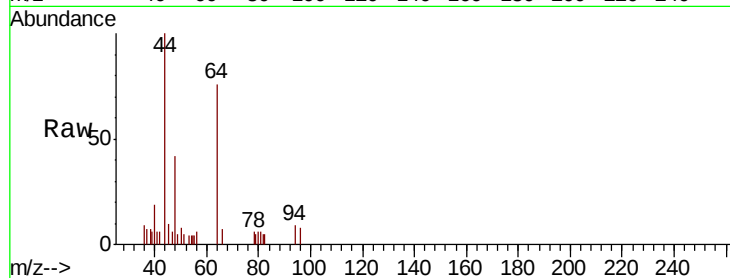
SA-PZ124-20190409

Tot Ion: 94 Resp: 142

Ion Ratio Lower Upper

94 100

96 93.2 75.2 112.8



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX008888.D

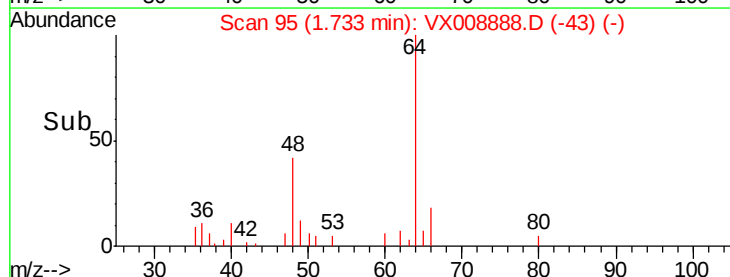
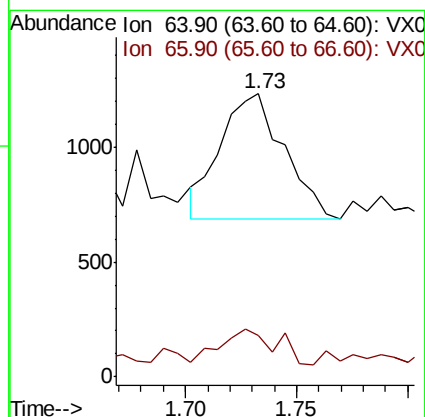
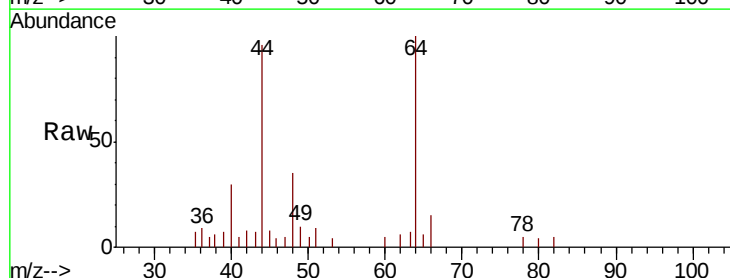
Acq: 12 Apr 2019 15:54

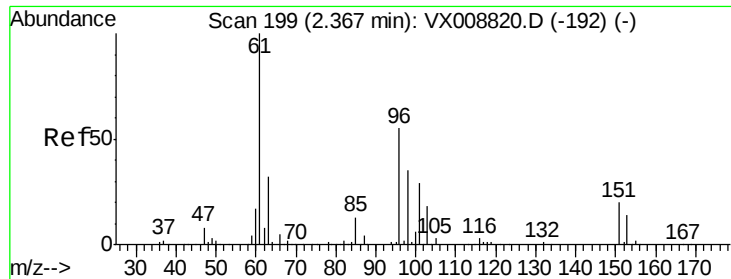
Tgt Ion: 64 Resp: 1069

Ion Ratio Lower Upper

64 100

66 21.8 25.4 38.0#





#12

1,1-Dichloroethene

Concen: 1.408 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

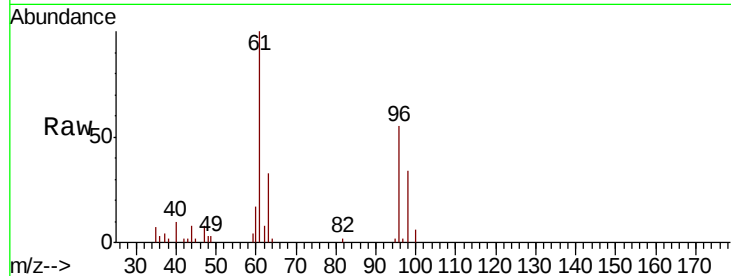
Tot Ion: 96 Resp: 3168

Ion Ratio Lower Upper

96 100

61 182.5 140.9 211.3

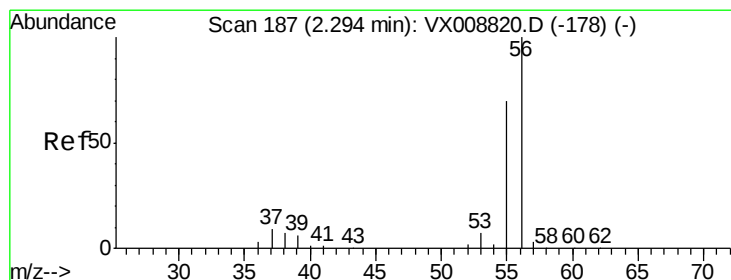
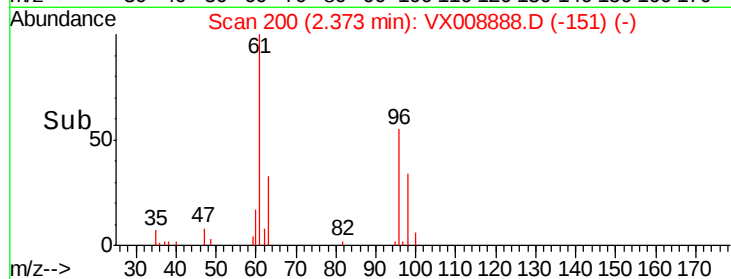
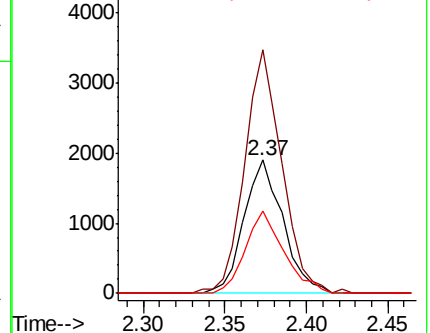
98 62.1 52.1 78.1



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



#13

Acrolein

Concen: 0.255 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008888.D

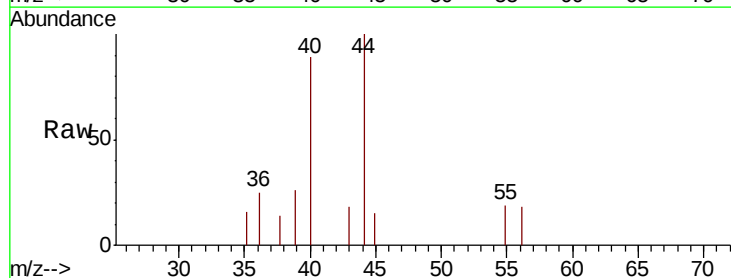
Acq: 12 Apr 2019 15:54

Tgt Ion: 56 Resp: 84

Ion Ratio Lower Upper

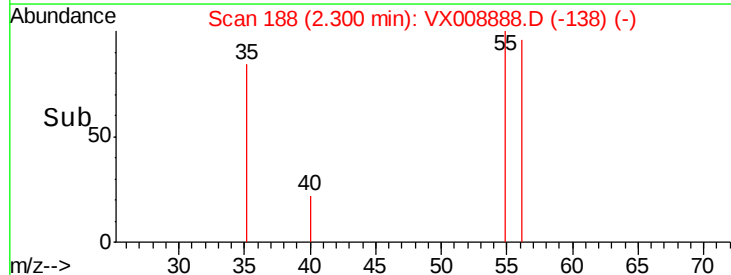
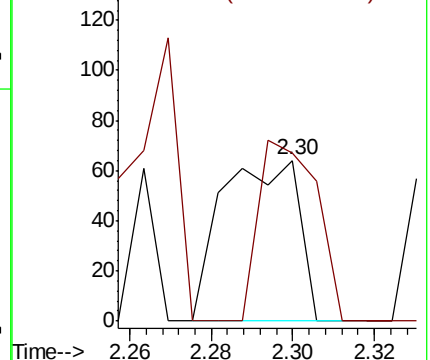
56 100

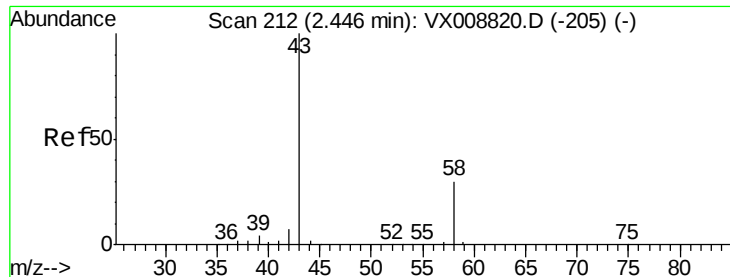
55 84.5 58.0 87.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.388 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

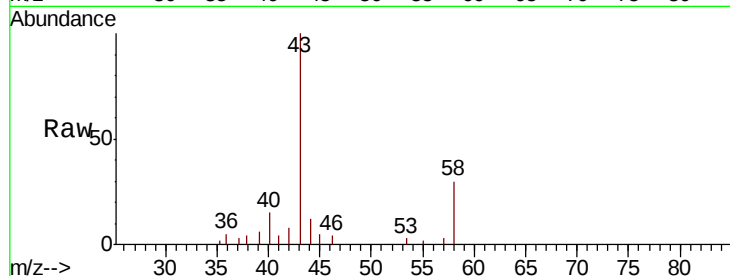
SA-PZ124-20190409

Tot Ion: 43 Resp: 3906

Ion Ratio Lower Upper

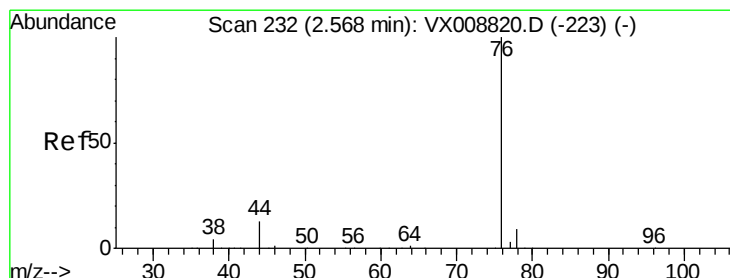
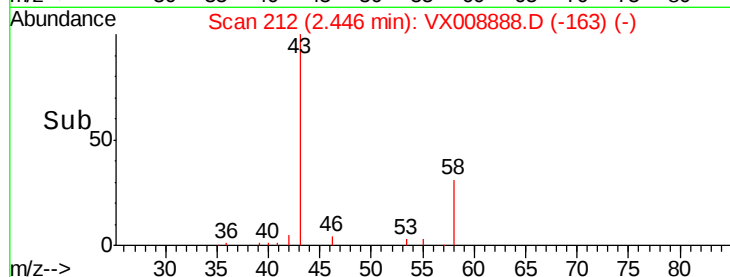
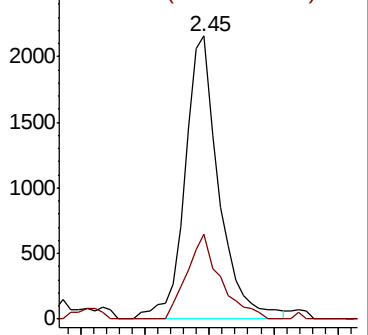
43 100

58 29.9 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008888.D

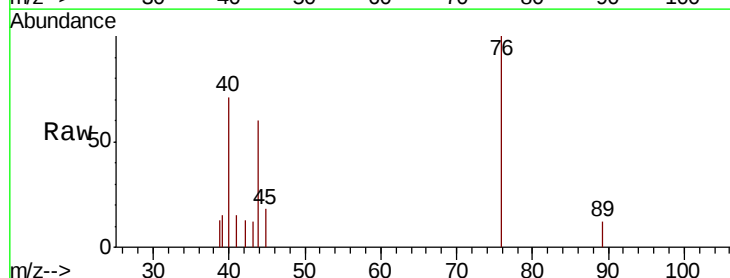
Acq: 12 Apr 2019 15:54

Tgt Ion: 76 Resp: 690

Ion Ratio Lower Upper

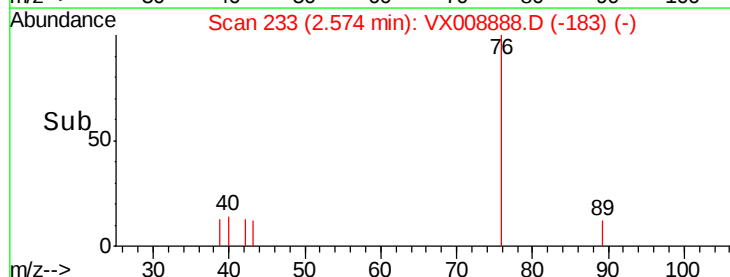
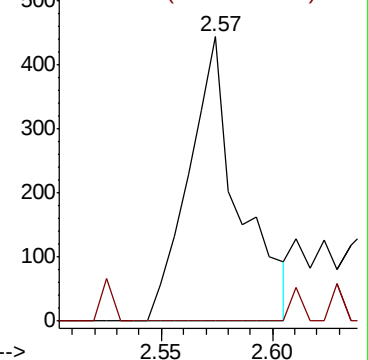
76 100

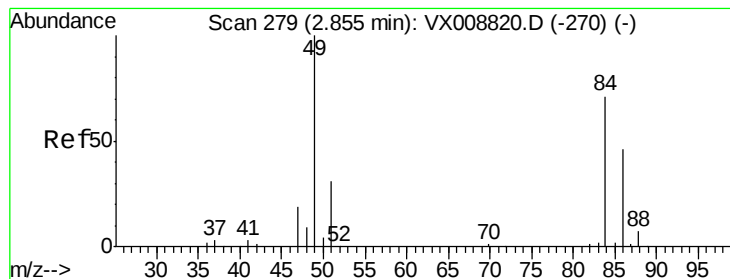
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.335 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

Tot Ion: 84 Resp: 917

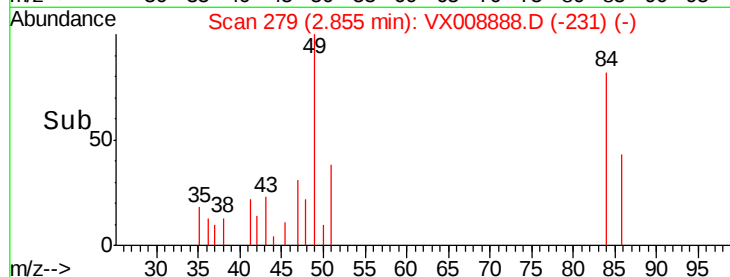
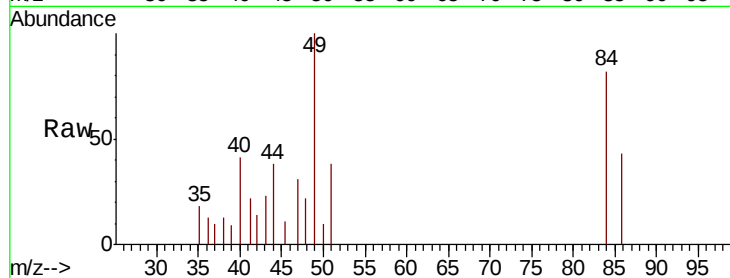
Ion Ratio Lower Upper

84 100

49 122.1 109.7 164.5

51 46.0 33.6 50.4

86 52.1 51.4 77.2

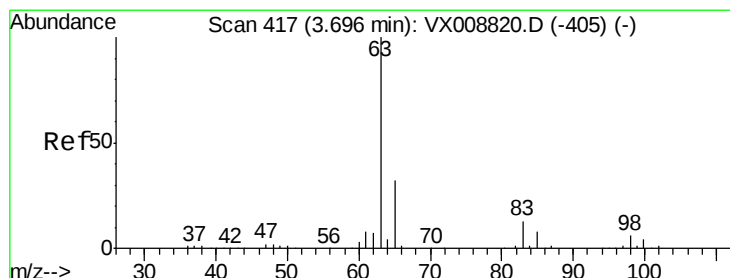
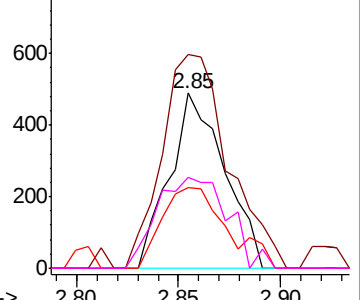


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#24

1,1-Dichloroethane

Concen: 11.875 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

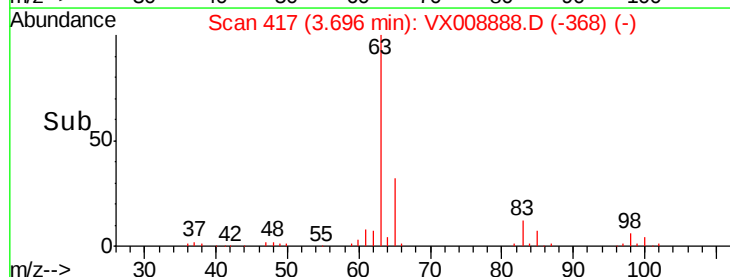
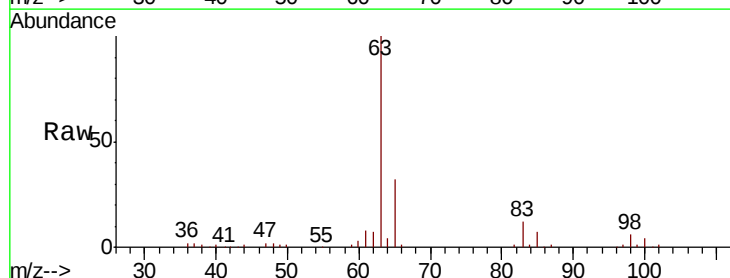
Tgt Ion: 63 Resp: 58387

Ion Ratio Lower Upper

63 100

98 6.1 2.8 8.4

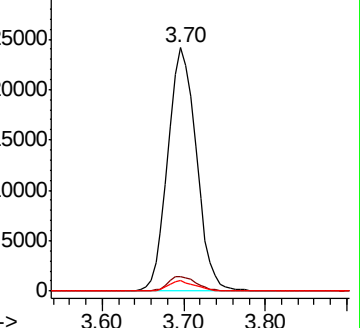
100 4.2 1.8 5.5

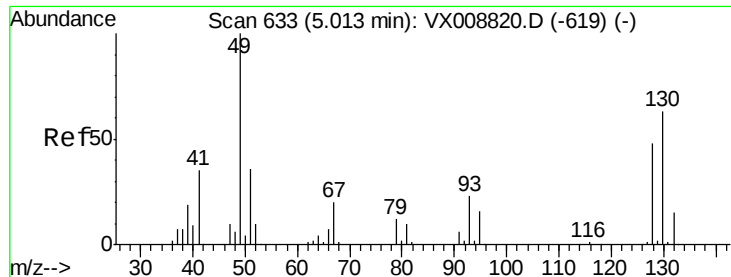


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

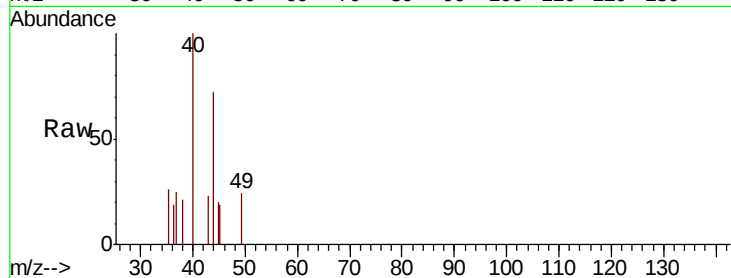
Tot Ion: 49 Resp: 24

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 49.3 73.9#



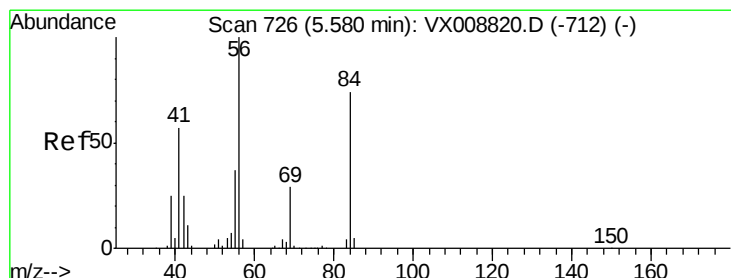
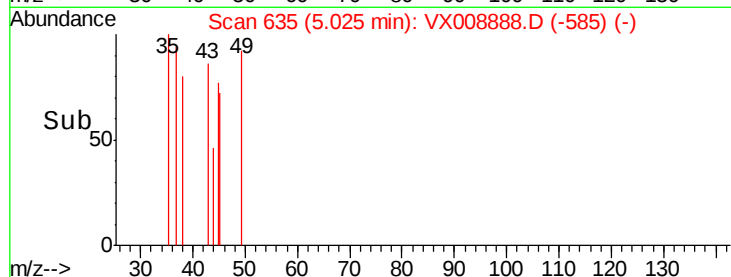
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.02

Time-->



#31

Cyclohexane

Concen: 0.898 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

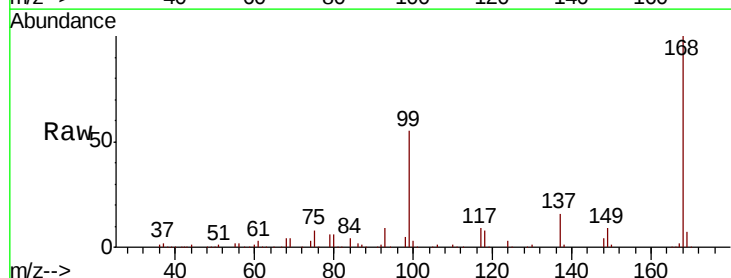
Tgt Ion: 56 Resp: 4406

Ion Ratio Lower Upper

56 100

69 189.0 22.6 33.8#

84 174.7 59.3 88.9#



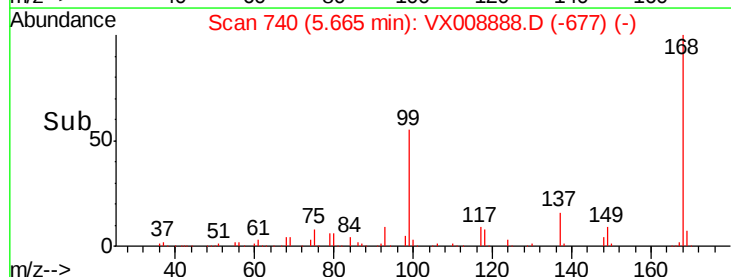
Abundance Ion 56.00 (55.70 to 56.70): VX0

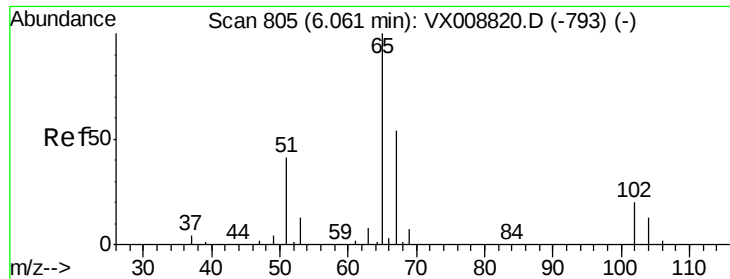
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

5.67

Time-->





#33

1,2-Dichloroethane-d4

Concen: 45.491 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

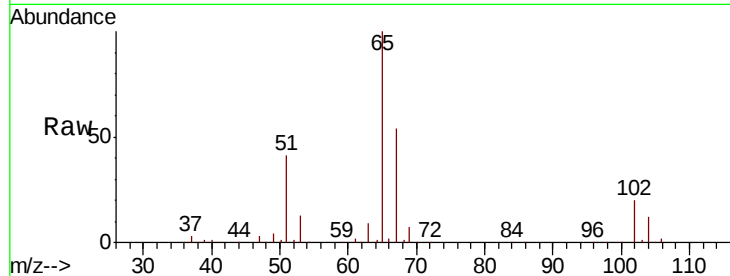
SA-PZ124-20190409

Tot Ion: 65 Resp: 129176

Ion Ratio Lower Upper

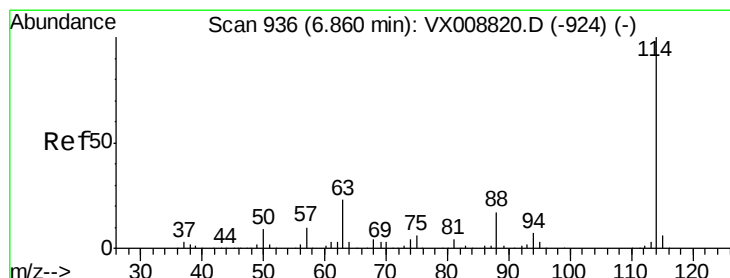
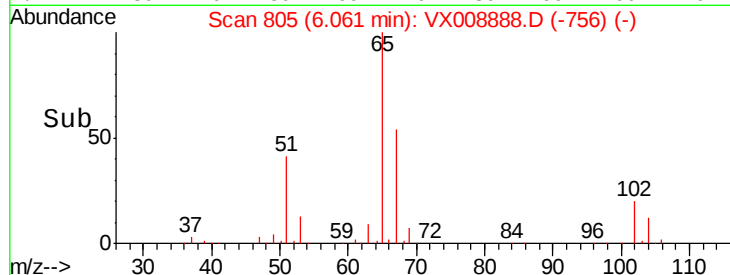
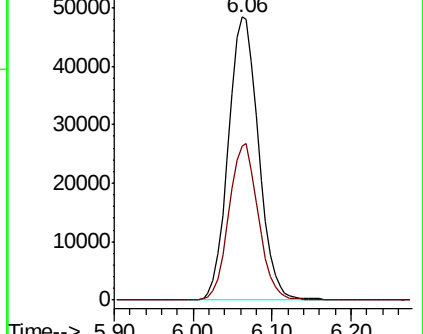
65 100

67 53.7 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: VX008888.D

Acq: 12 Apr 2019 15:54

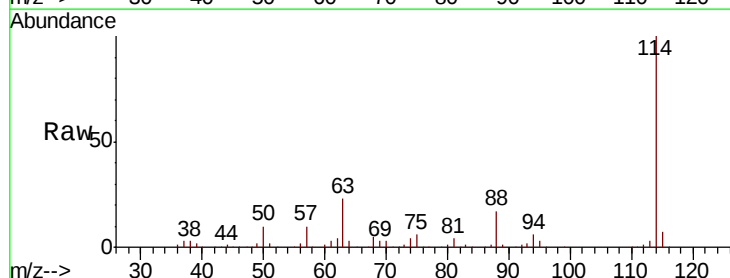
Tgt Ion: 114 Resp: 313269

Ion Ratio Lower Upper

114 100

63 22.8 0.0 47.2

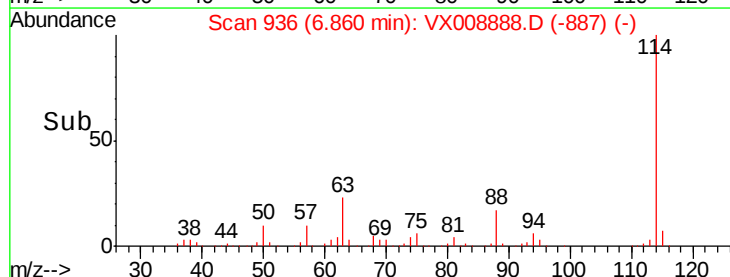
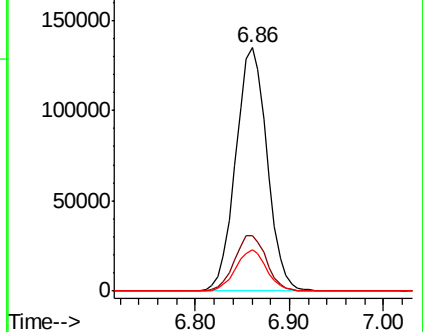
88 17.0 0.0 34.0

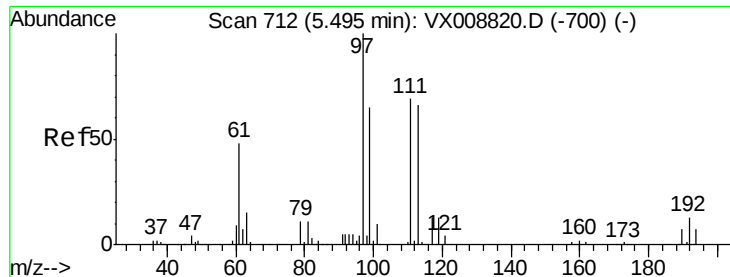


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.772 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

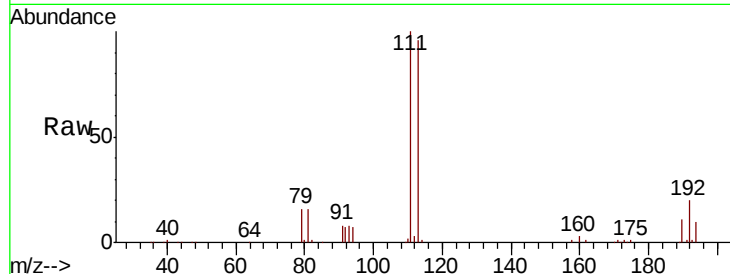
Tot Ion:113 Resp: 93681

Ion Ratio Lower Upper

113 100

111 102.3 83.4 125.2

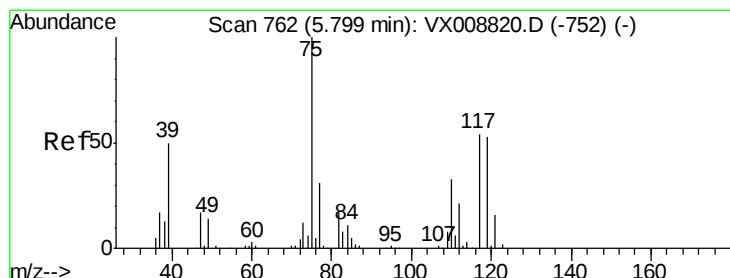
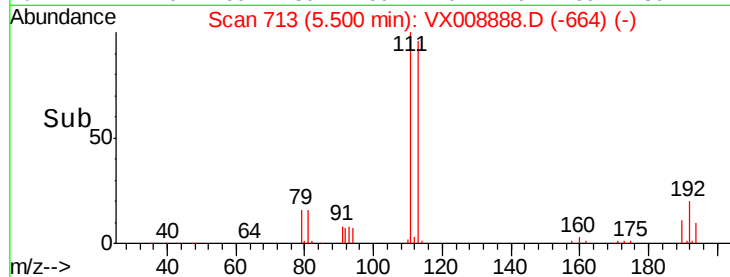
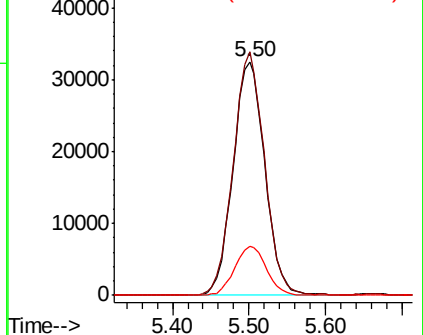
192 20.7 16.1 24.1



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: 4.497 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

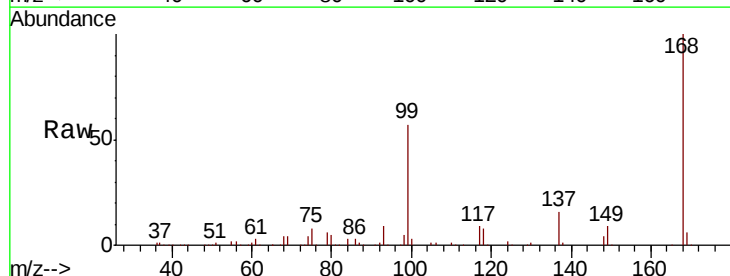
Tgt Ion: 75 Resp: 15398

Ion Ratio Lower Upper

75 100

110 8.2 16.4 49.2#

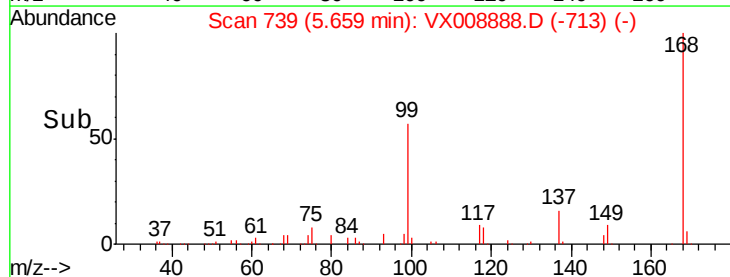
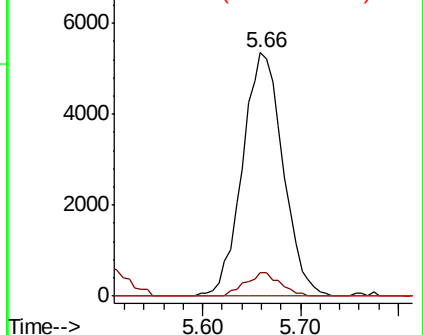
77 0.0 24.7 37.1#

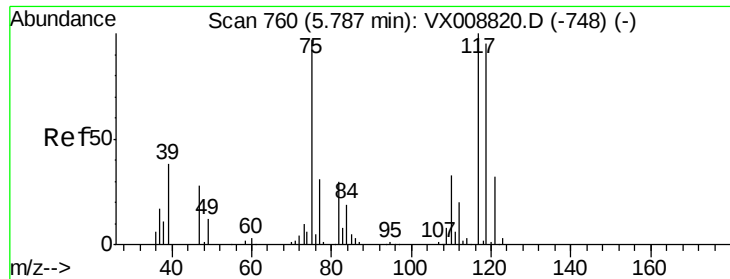


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.500 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

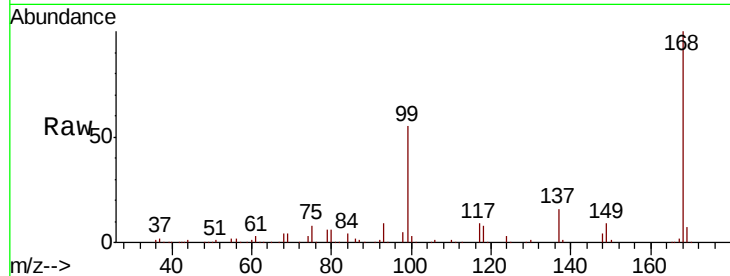
Tot Ion:117 Resp: 18422

Ion Ratio Lower Upper

117 100

119 5.3 75.0 112.6#

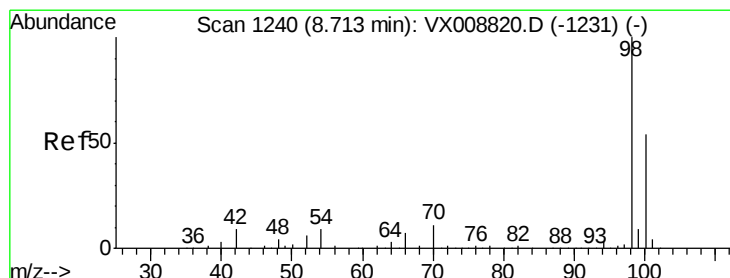
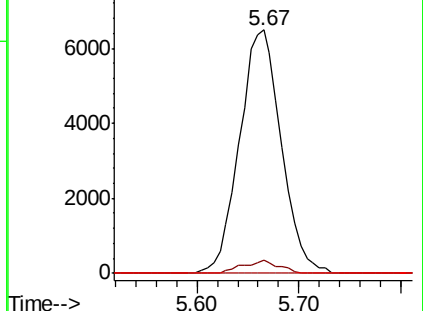
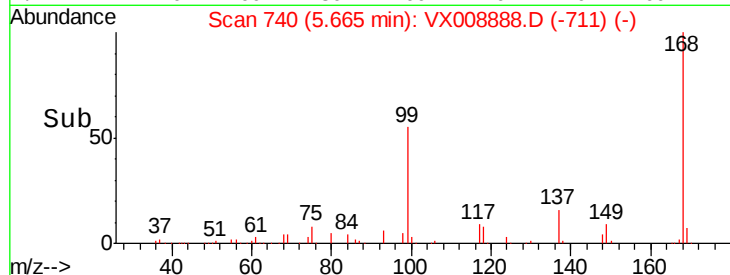
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: 49.372 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008888.D

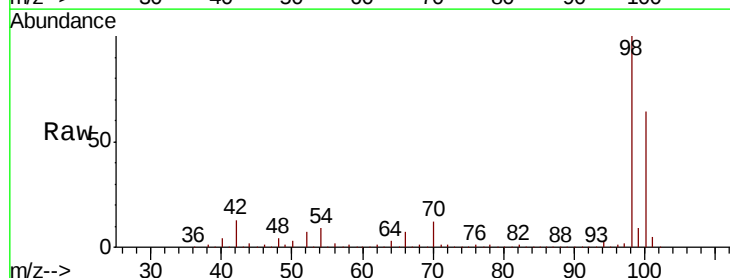
Acq: 12 Apr 2019 15:54

Tgt Ion: 98 Resp: 393749

Ion Ratio Lower Upper

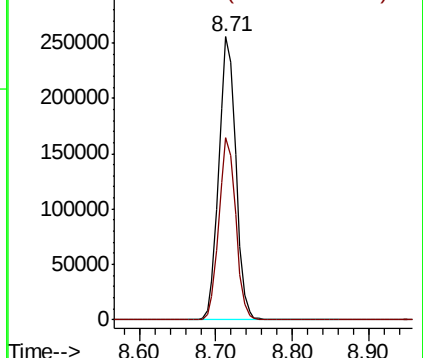
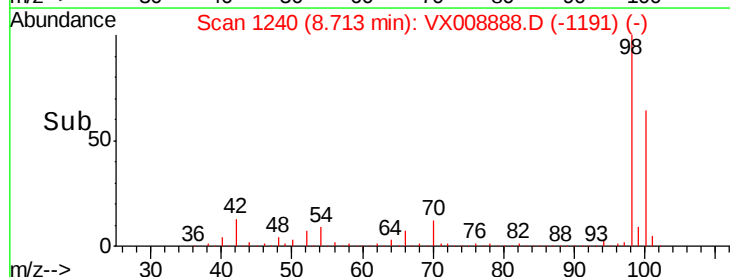
98 100

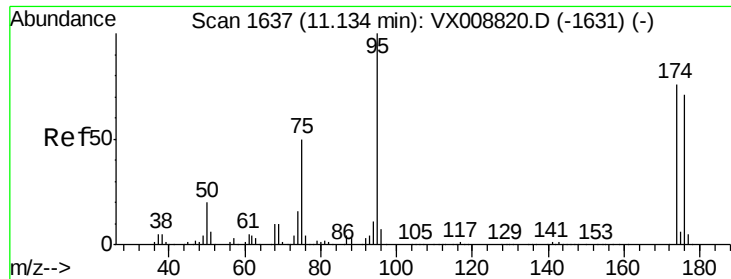
100 63.6 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.224 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

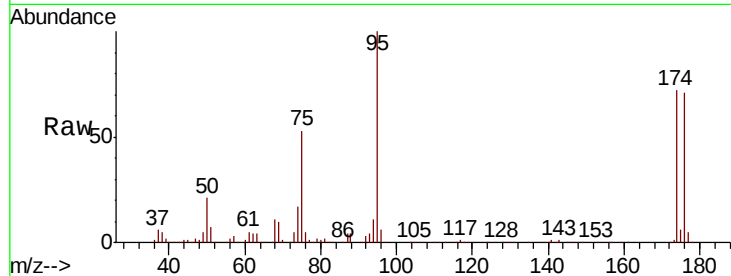
Tot Ion: 95 Resp: 130725

Ion Ratio Lower Upper

95 100

174 77.9 0.0 151.8

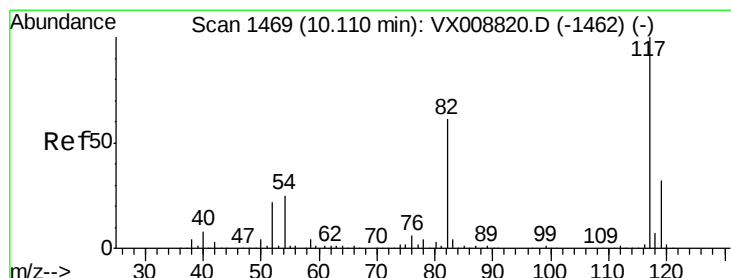
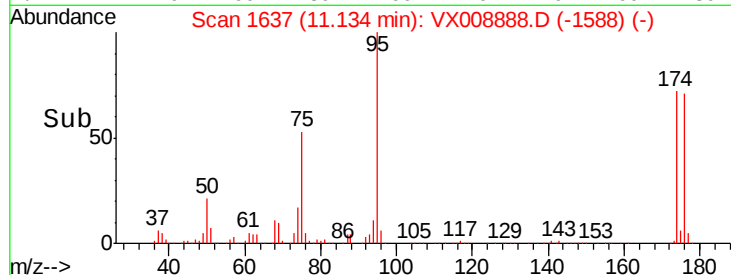
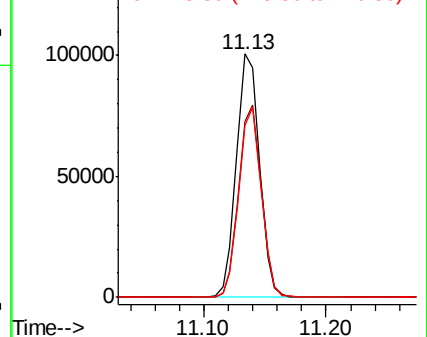
176 76.0 0.0 145.8



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: VX008888.D

Acq: 12 Apr 2019 15:54

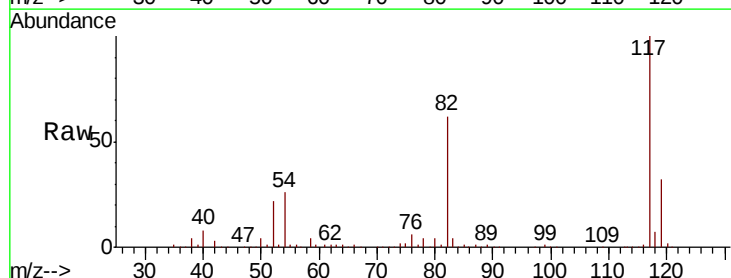
Tgt Ion: 117 Resp: 272133

Ion Ratio Lower Upper

117 100

82 62.2 49.6 74.4

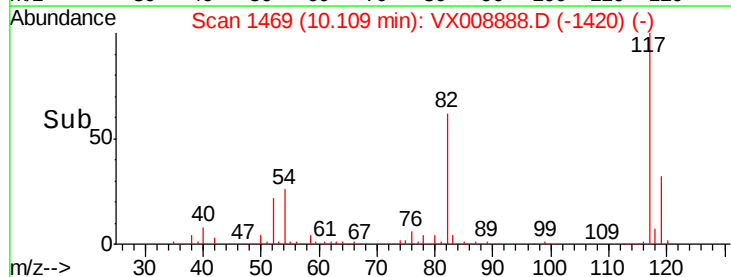
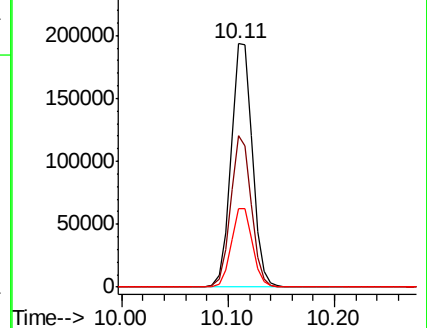
119 32.4 25.0 37.4

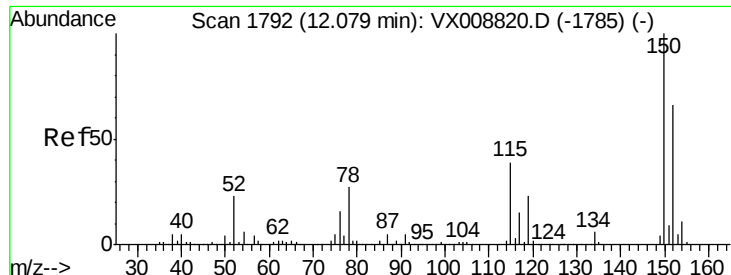


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

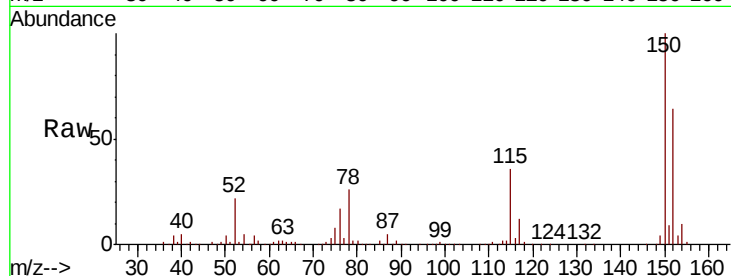
Tot Ion:152 Resp: 115208

Ion Ratio Lower Upper

152 100

115 59.5 43.5 130.5

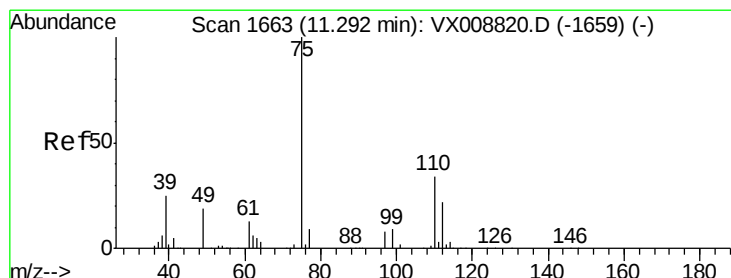
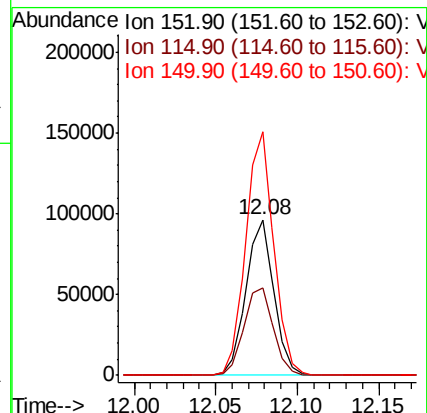
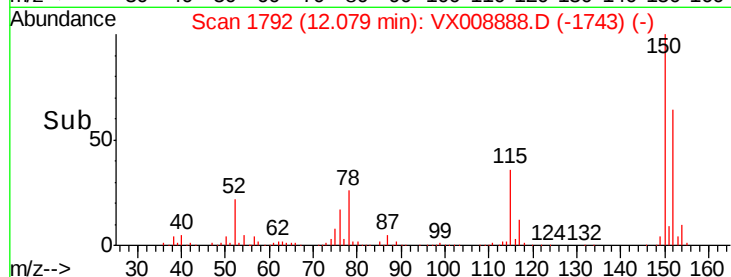
150 157.0 0.0 348.8



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: 21.118 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008888.D

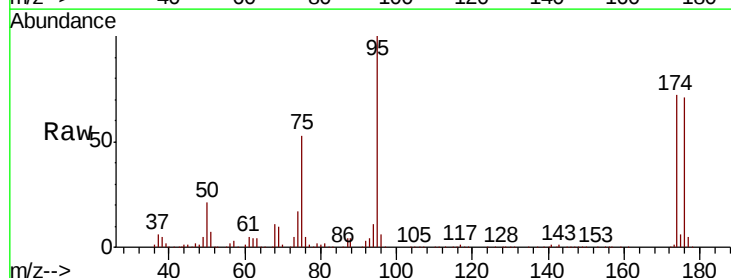
Acq: 12 Apr 2019 15:54

Tgt Ion: 75 Resp: 66837

Ion Ratio Lower Upper

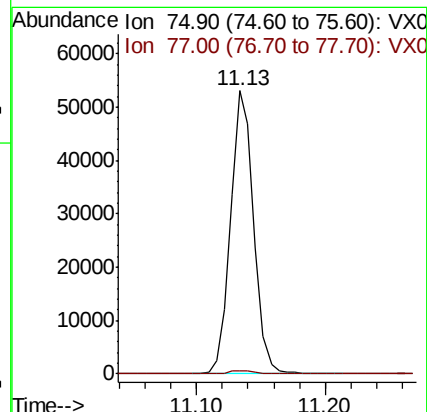
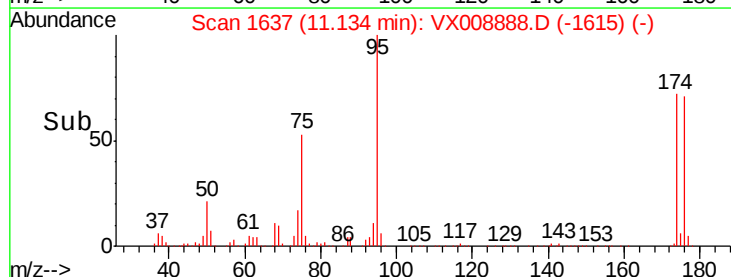
75 100

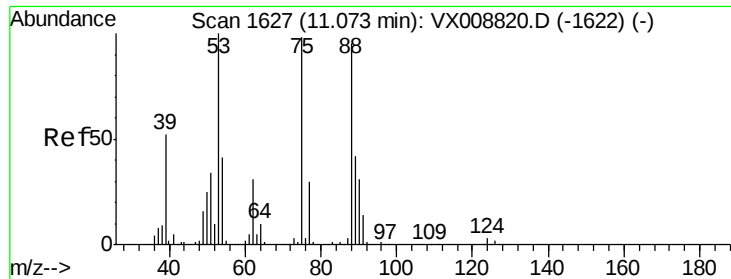
77 1.4 22.3 66.8#



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: 58.214 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008888.D

Acq: 12 Apr 2019 15:54

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ124-20190409

Tot Ion: 75 Resp: 66837

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#

