

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030818\
 Data File : VX000243.D
 Acq On : 09 Mar 2018 01:15
 Operator : JC/MD
 Sample : J1760-02 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 09 04:21:02 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X030718W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 08 02:15:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	46327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	78749	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	76887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	38919	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	40721	63.41	ug/l	0.00
Spiked Amount			Recovery	=	126.82%	
35) Dibromofluoromethane	5.51	113	30154	60.96	ug/l	0.00
Spiked Amount			Recovery	=	121.92%	
50) Toluene-d8	8.73	98	116850	57.03	ug/l	0.00
Spiked Amount			Recovery	=	114.06%	
62) 4-Bromofluorobenzene	11.15	95	40504	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	

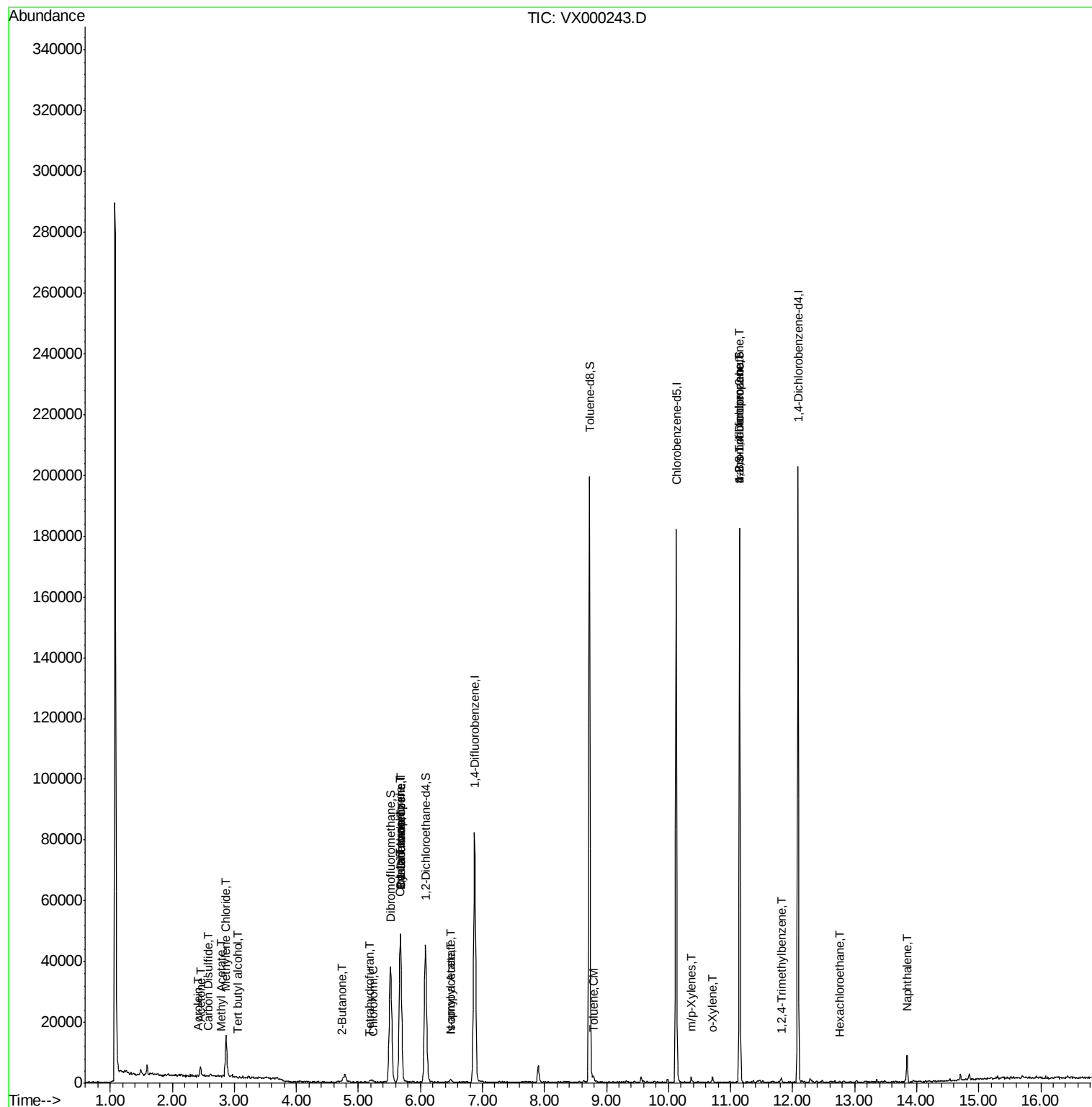
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	203	Below Cal	#	48
6) Chloroethane	1.74	64	131	Below Cal	#	42
11) Tert butyl alcohol	3.05	59	108	0.46	ug/l	72
13) Acrolein	2.40	56	44	0.35	ug/l	12
16) Acetone	2.45	43	3409	7.39	ug/l	91
17) Carbon Disulfide	2.57	76	277	0.21	ug/l	43
18) Methyl Acetate	2.78	43	256	0.26	ug/l	52
20) Methylene Chloride	2.87	84	5674	10.32	ug/l	95
25) 2-Butanone	4.73	43	592	1.04	ug/l	80
29) Tetrahydrofuran	5.18	42	253	0.71	ug/l	67
30) Chloroform	5.23	83	475	0.52	ug/l	63
31) Cyclohexane	5.68	56	1298	1.85	ug/l	51
36) 1,1-Dichloropropene	5.67	75	3546	5.06	ug/l	43
38) Carbon Tetrachloride	5.67	117	4601	6.49	ug/l	16
43) Isopropyl Acetate	6.48	43	1139	0.78	ug/l	78
52) Toluene	8.80	92	427	0.31	ug/l	88
68) m/p-Xylenes	10.37	106	551	0.53	ug/l	82
69) o-Xylene	10.70	106	522	0.52	ug/l	83
74) N-amyl acetate	6.48	43	1139	0.91	ug/l	70
76) 1,2,3-Trichloropropane	11.15	75	23807	30.52	ug/l	34
81) trans-1,4-Dichloro-2-buten	11.15	75	23807	93.44	ug/l	10
84) 1,2,4-Trimethylbenzene	11.82	105	959	0.46	ug/l	97
90) Hexachloroethane	12.76	117	75	0.21	ug/l	11
95) Naphthalene	13.85	128	5465	1.82	ug/l	99

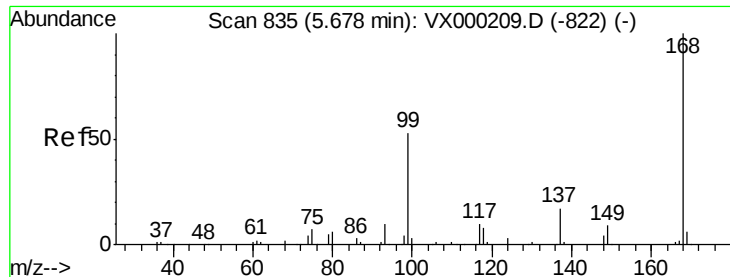
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 09 04:21:02 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X030718W.M
Quant Title : SW846 8260
QLast Update : Thu Mar 08 02:15:47 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

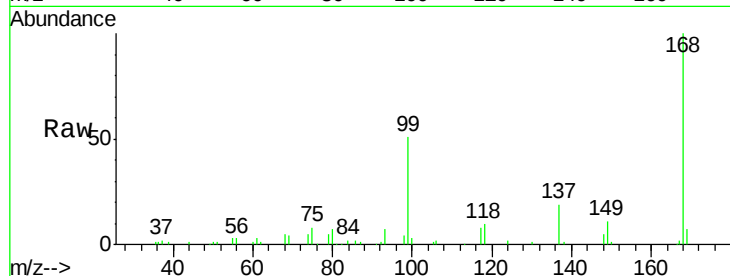
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 46327

Ion Ratio Lower Upper

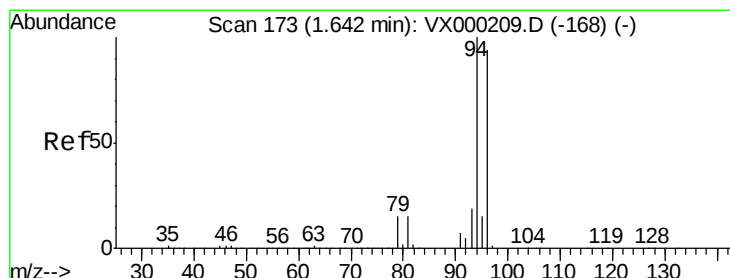
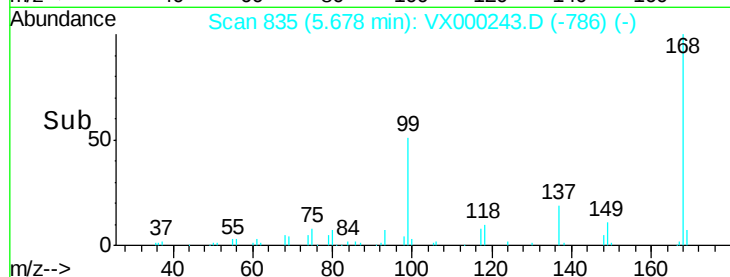
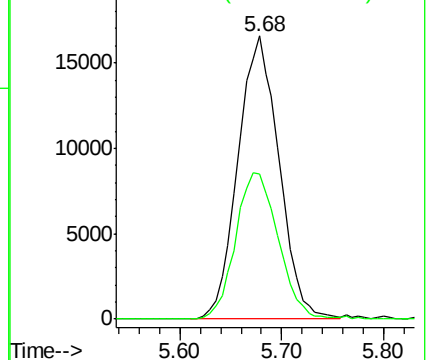
168 100

99 51.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX000243.D

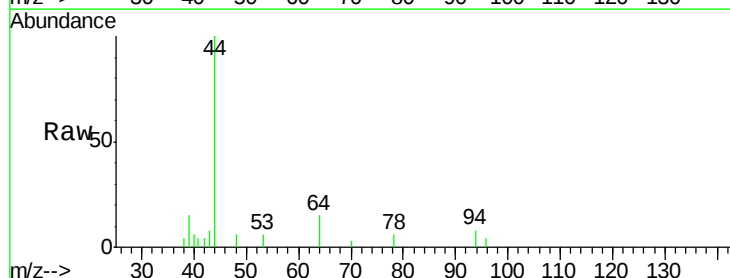
Acq: 09 Mar 2018 01:15

Tgt Ion: 94 Resp: 203

Ion Ratio Lower Upper

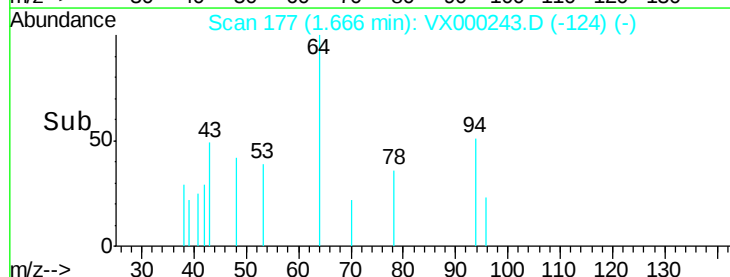
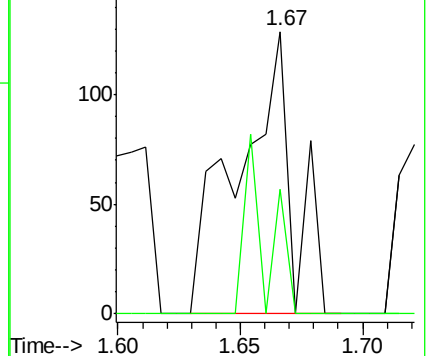
94 100

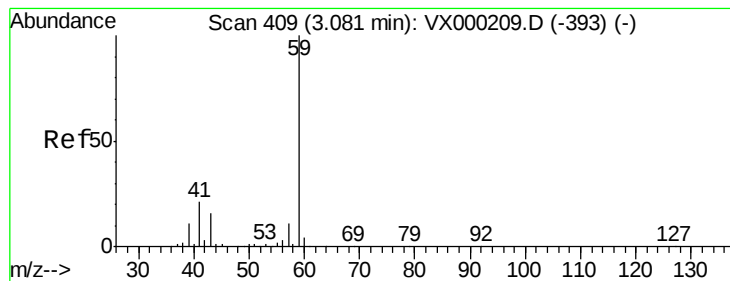
96 44.2 75.3 112.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#11

Tert butyl alcohol

Concen: 0.46 ug/l

RT: 3.05 min Scan# 404

Delta R.T. -0.03 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

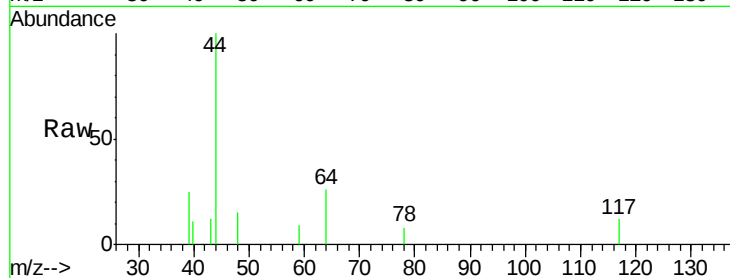
ClientSampleId :

Tot Ion: 59 Resp: 108

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.05

80

60

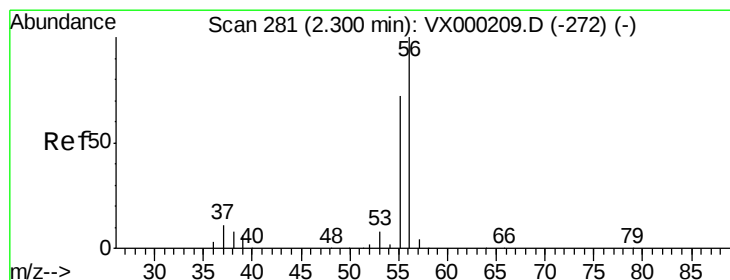
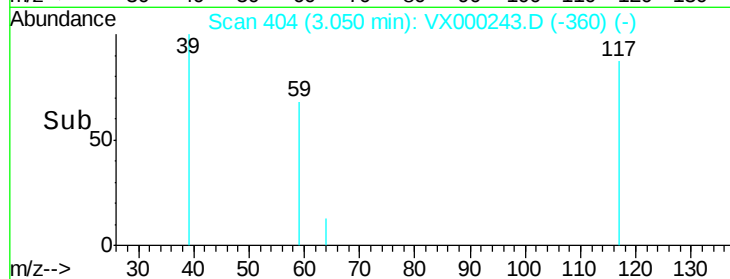
40

20

0

Time-->

3.02 3.04 3.06 3.08



#13

Acrolein

Concen: 0.35 ug/l

RT: 2.40 min Scan# 298

Delta R.T. 0.10 min

Lab File: VX000243.D

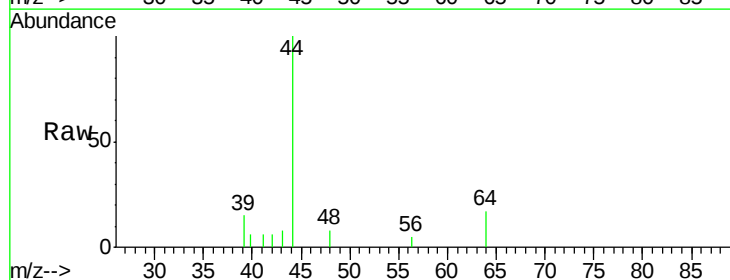
Acq: 09 Mar 2018 01:15

Tgt Ion: 56 Resp: 44

Ion Ratio Lower Upper

56 100

55 0.0 59.2 88.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.40

80

60

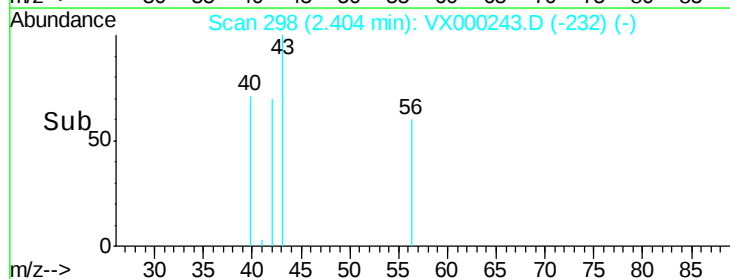
40

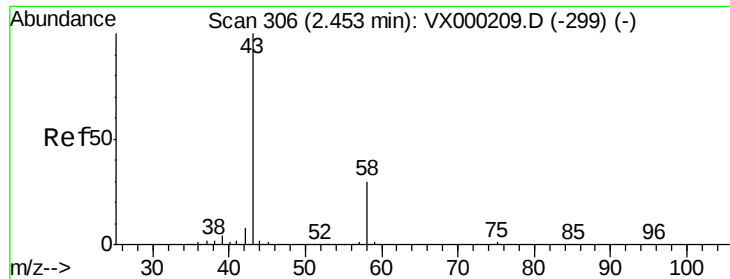
20

0

Time-->

2.38 2.39 2.40 2.41 2.42





#16

Acetone

Concen: 7.39 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

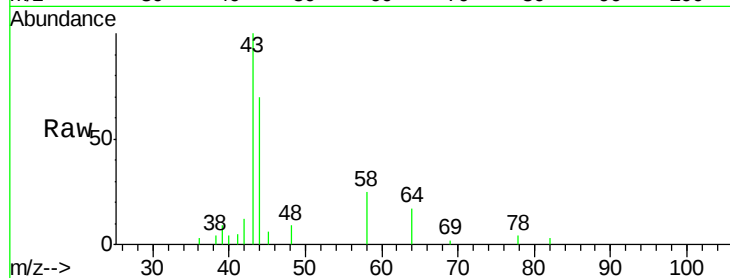
ClientSampled :

Tot Ion: 43 Resp: 3409

Ion Ratio Lower Upper

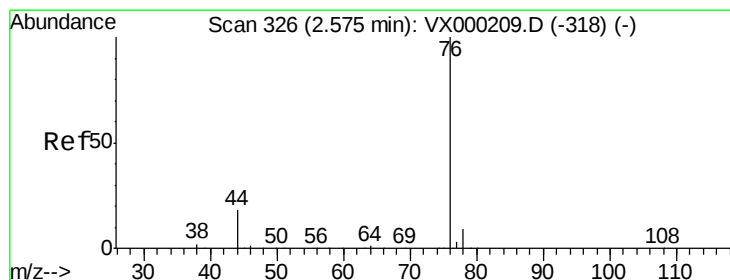
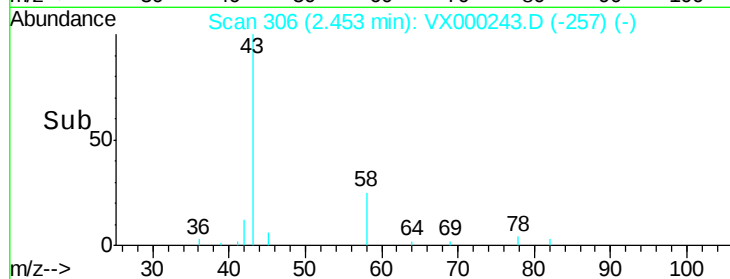
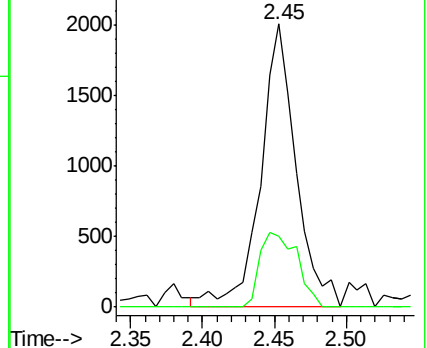
43 100

58 24.9 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX000243.D

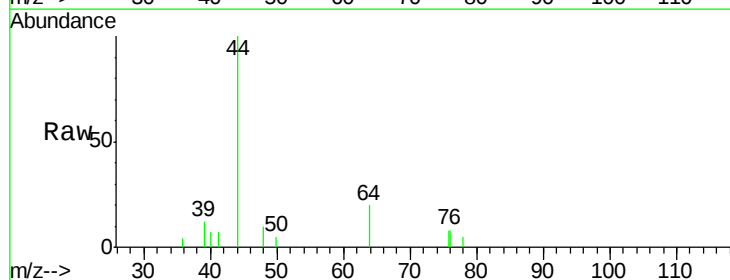
Acq: 09 Mar 2018 01:15

Tgt Ion: 76 Resp: 277

Ion Ratio Lower Upper

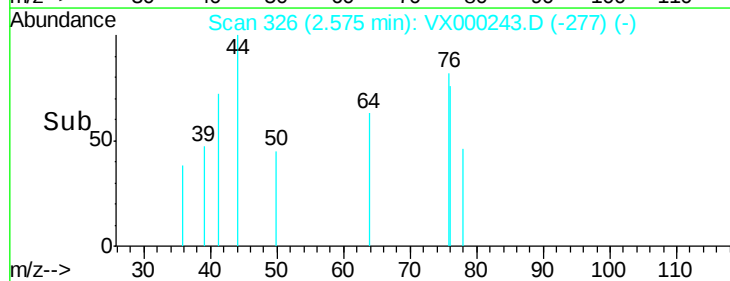
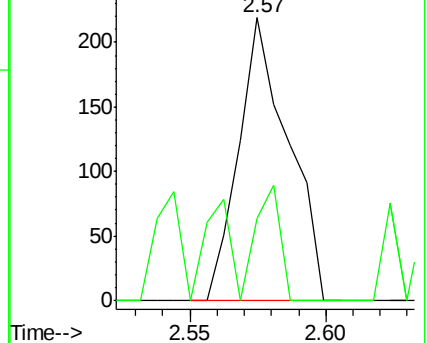
76 100

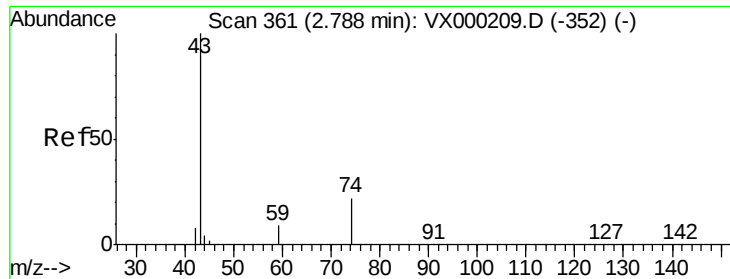
78 29.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#18

Methyl Acetate

Concen: 0.26 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.01 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

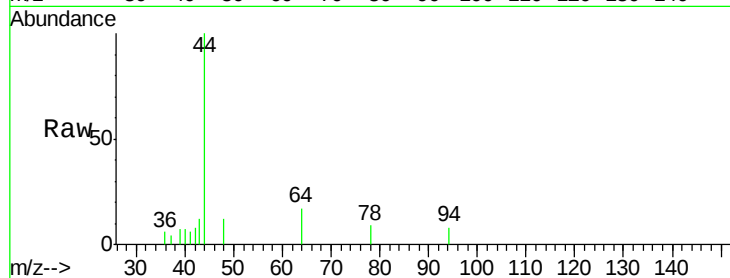
ClientSampleId :

Tot Ion: 43 Resp: 256

Ion Ratio Lower Upper

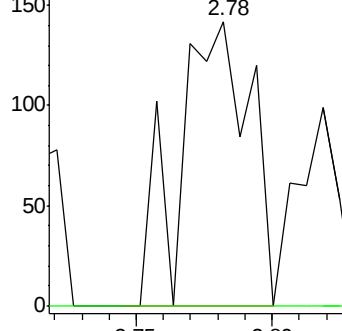
43 100

74 0.0 18.9 28.3#

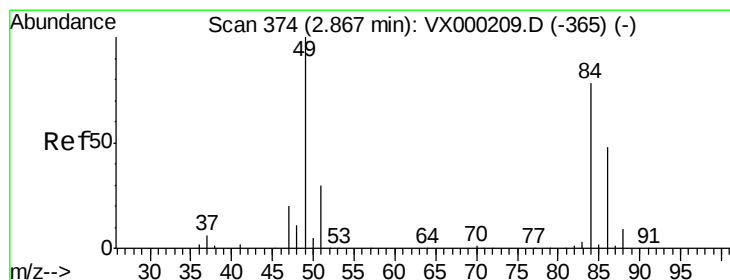
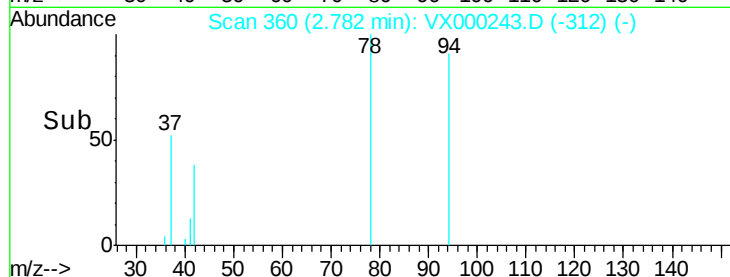


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->



#20

Methylene Chloride

Concen: 10.32 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Tgt Ion: 84 Resp: 5674

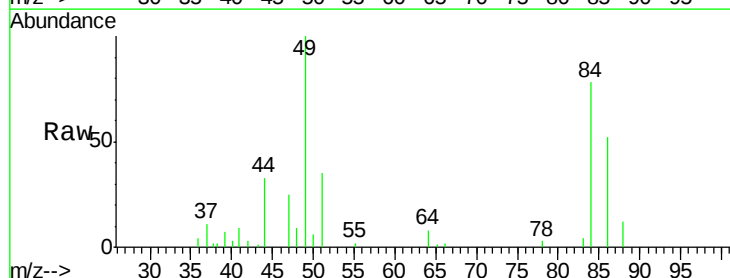
Ion Ratio Lower Upper

84 100

49 129.0 102.1 153.1

51 45.6 30.6 45.8

86 67.1 49.0 73.6

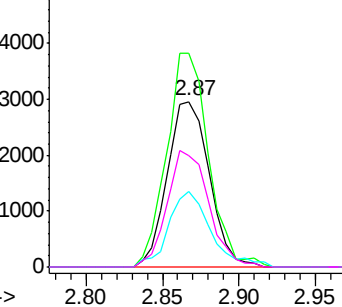


Abundance Ion 83.90 (83.60 to 84.60): VX0

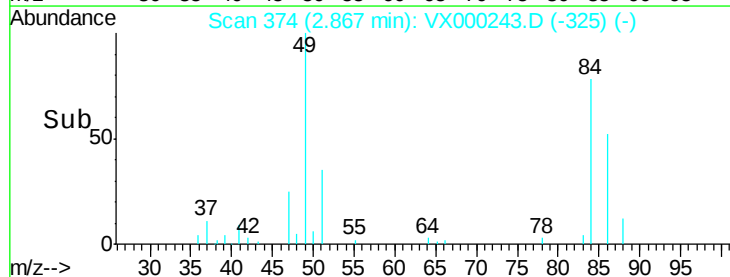
Ion 48.90 (48.60 to 49.60): VX0

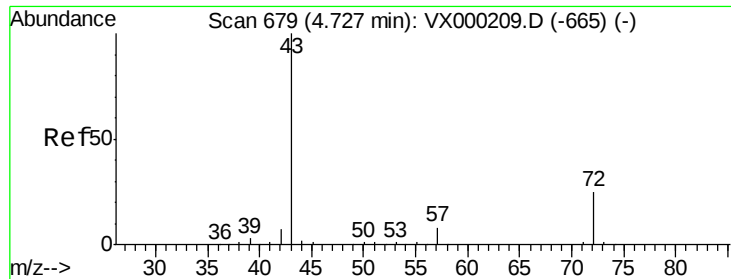
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->





#25

2-Butanone

Concen: 1.04 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

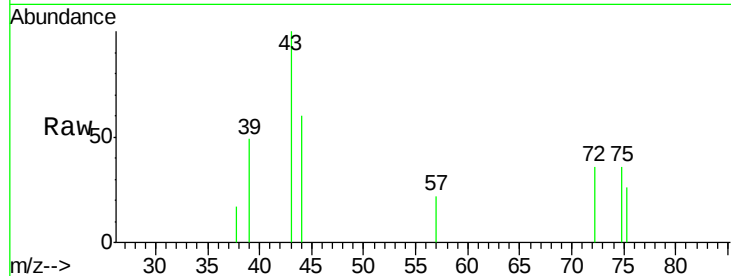
ClientSampleId :

Tot Ion: 43 Resp: 592

Ion Ratio Lower Upper

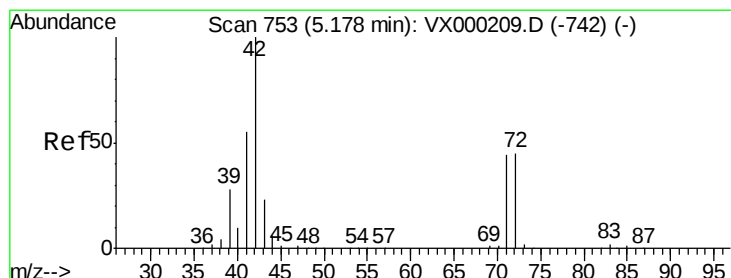
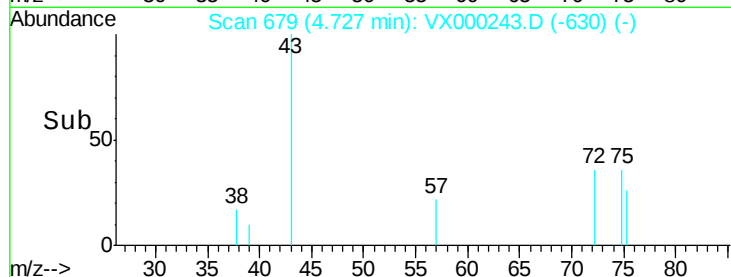
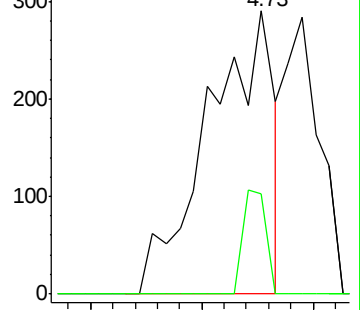
43 100

72 35.5 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.71 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

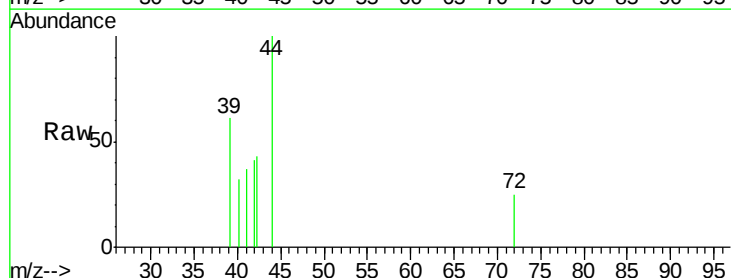
Tgt Ion: 42 Resp: 253

Ion Ratio Lower Upper

42 100

72 7.9 37.3 55.9#

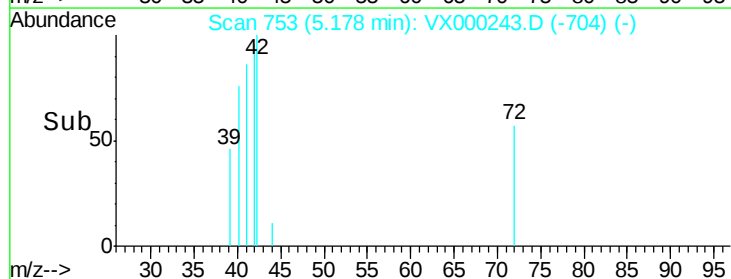
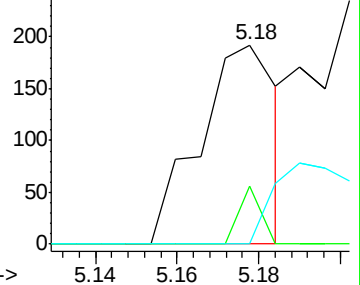
71 39.1 35.0 52.4

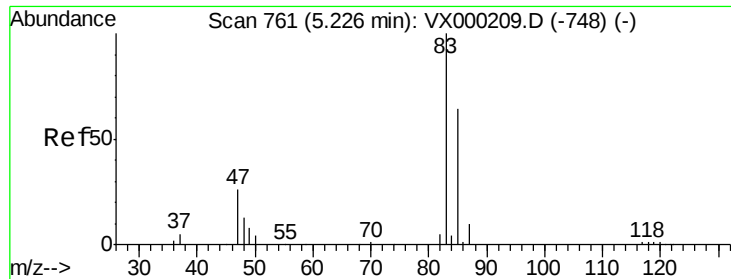


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

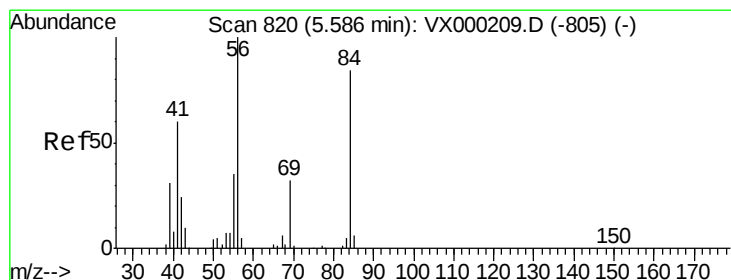
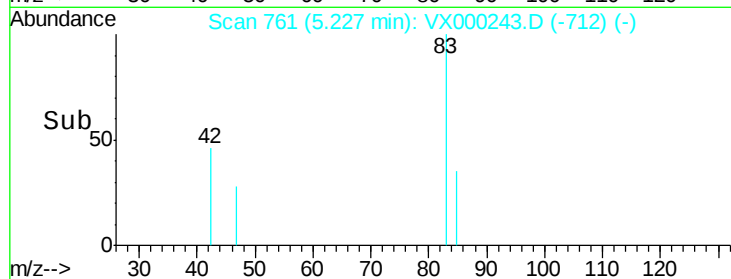
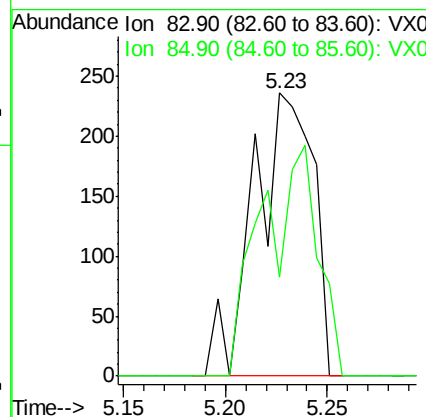
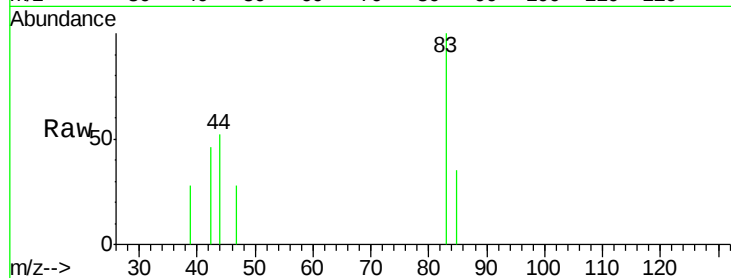




#30
Chloroform
Concen: 0.52 ug/l
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VX000243.D
Acq: 09 Mar 2018 01:15

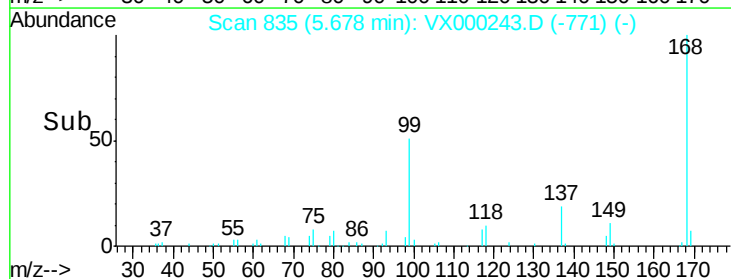
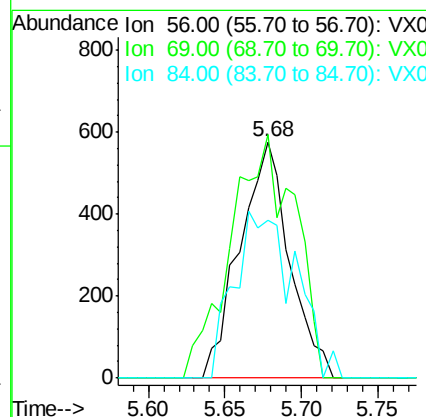
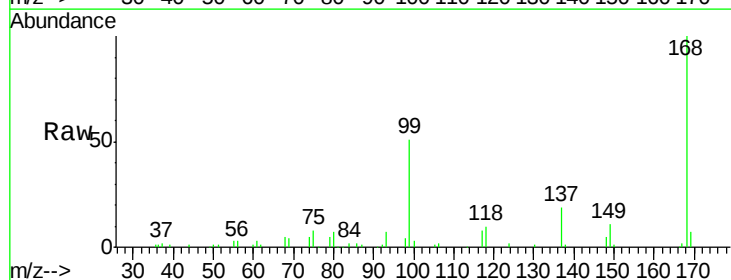
Instrument :
MSVOA_X
ClientSampled :

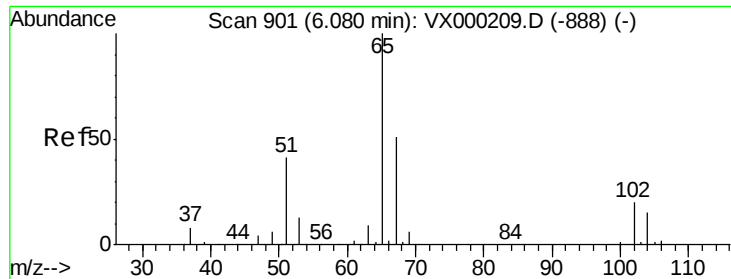
Tot Ion: 83 Resp: 475
Ion Ratio Lower Upper
83 100
85 35.2 51.0 76.6#



#31
Cyclohexane
Concen: 1.85 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.09 min
Lab File: VX000243.D
Acq: 09 Mar 2018 01:15

Tgt Ion: 56 Resp: 1298
Ion Ratio Lower Upper
56 100
69 102.9 25.3 37.9#
84 66.9 67.2 100.8#

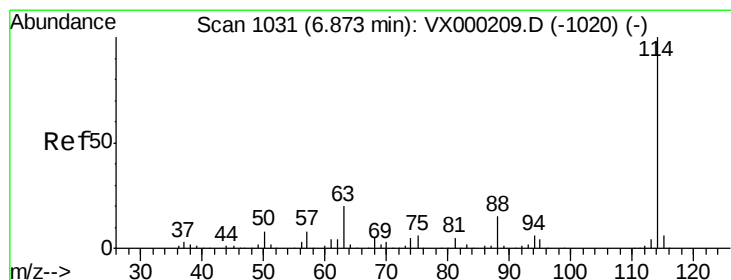
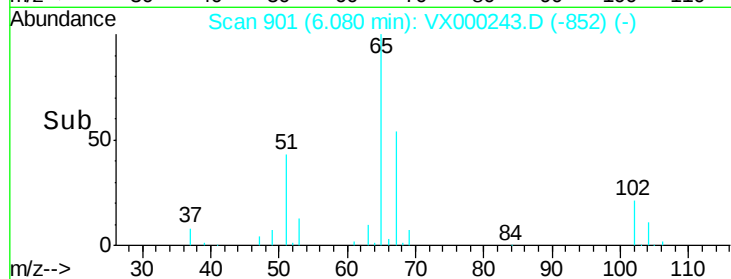
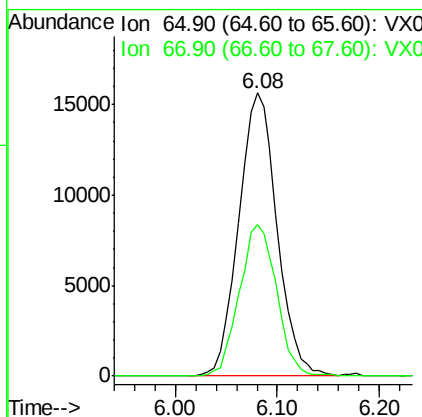
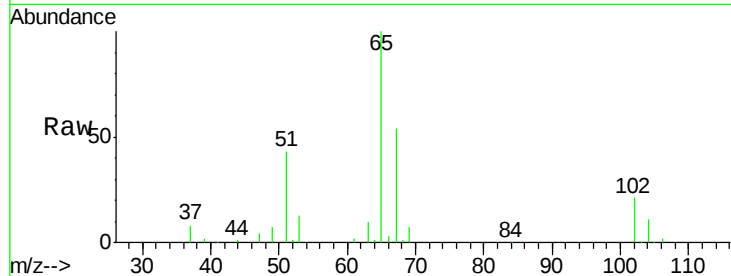




#33
 1,2-Dichloroethane-d4
 Concen: 63.41 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VX000243.D
 Acq: 09 Mar 2018 01:15

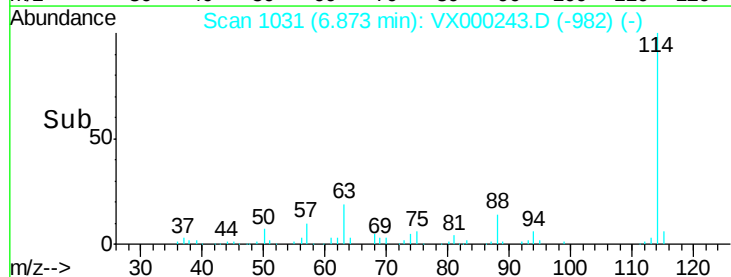
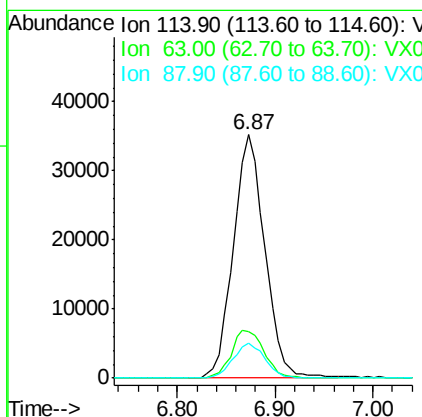
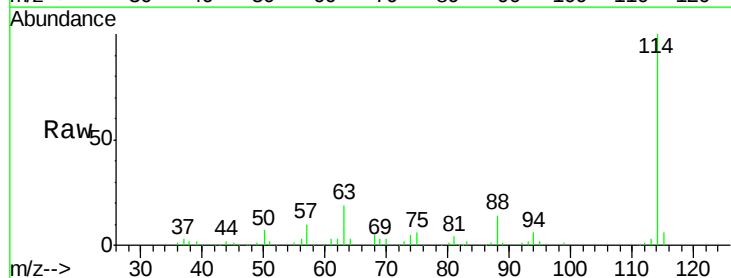
Instrument :
 MSVOA_X
 ClientSampleId :

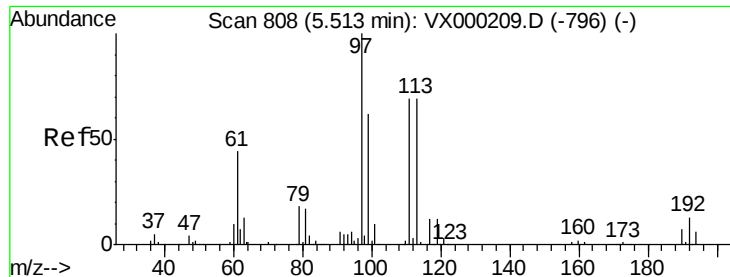
Tot Ion: 65 Resp: 40721
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VX000243.D
 Acq: 09 Mar 2018 01:15

Tgt Ion: 114 Resp: 78749
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 14.3 0.0 29.8





#35

Dibromofluoromethane

Concen: 60.96 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

ClientSampleId :

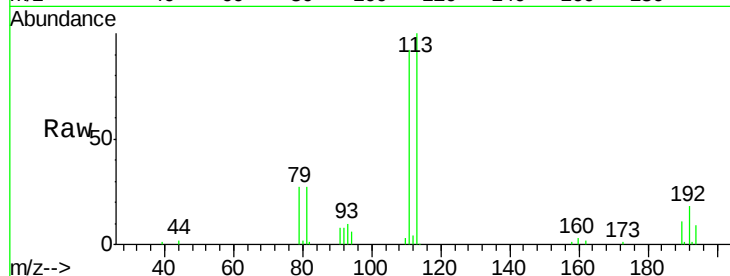
Tot Ion:113 Resp: 30154

Ion Ratio Lower Upper

113 100

111 99.9 83.0 124.6

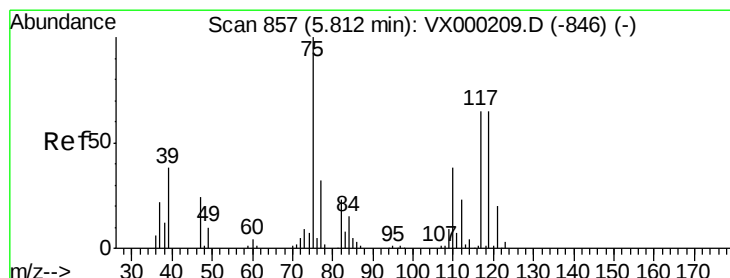
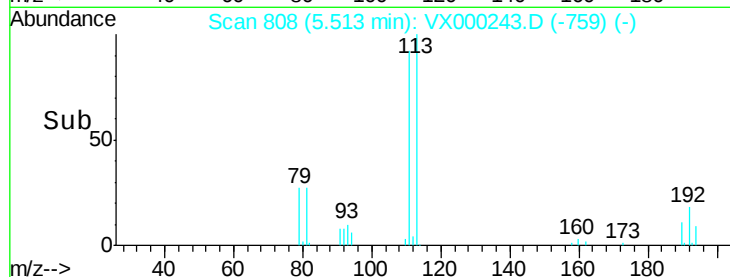
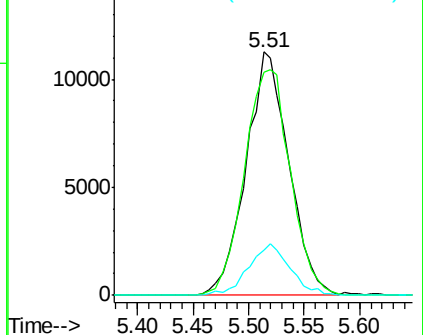
192 20.5 15.5 23.3



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: 5.06 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

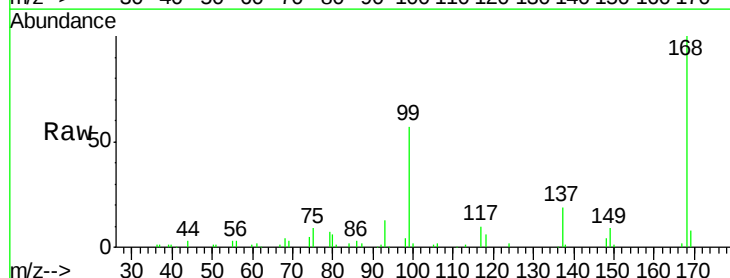
Tgt Ion: 75 Resp: 3546

Ion Ratio Lower Upper

75 100

110 1.9 17.8 53.5#

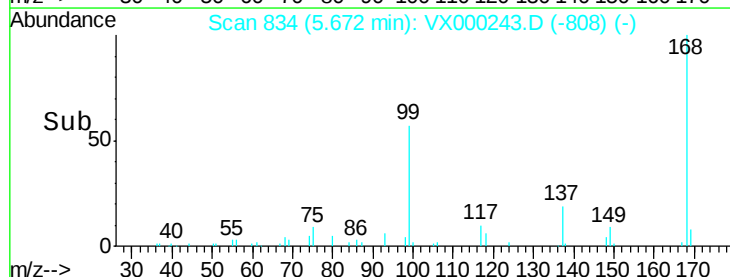
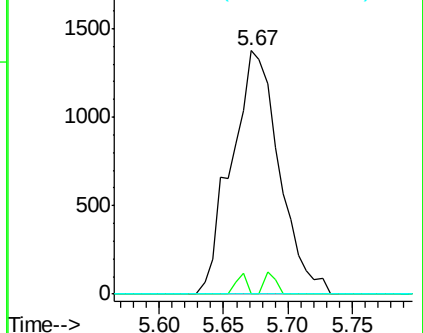
77 0.0 24.9 37.3#

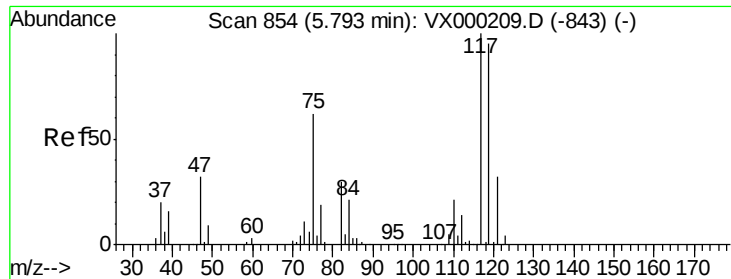


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.49 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

ClientSampled :

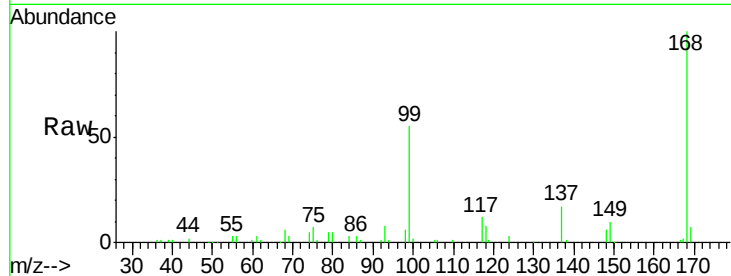
Tot Ion:117 Resp: 4601

Ion Ratio Lower Upper

117 100

119 4.7 75.9 113.9#

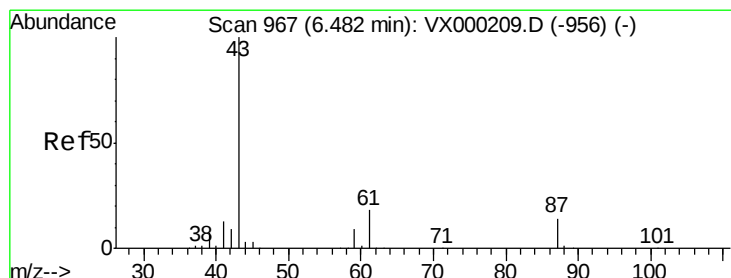
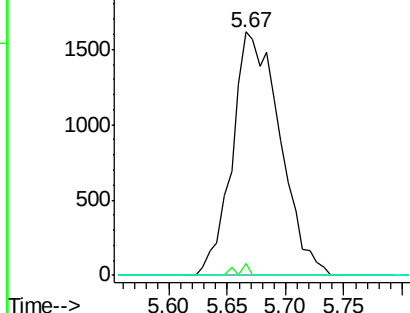
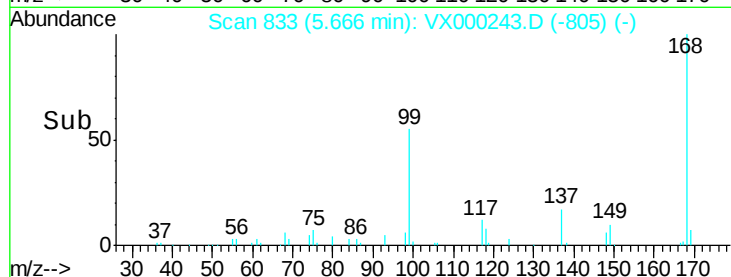
121 0.0 25.8 38.6#



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



#43

Isopropyl Acetate

Concen: 0.78 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

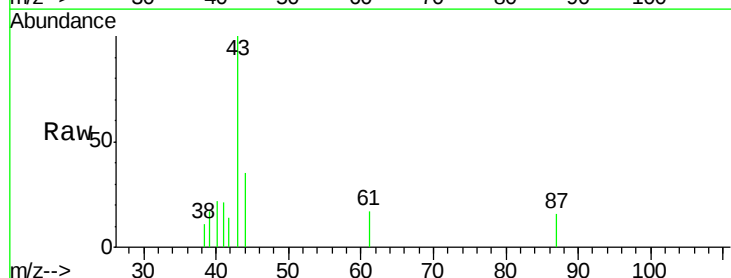
Tgt Ion: 43 Resp: 1139

Ion Ratio Lower Upper

43 100

61 5.2 14.8 22.2#

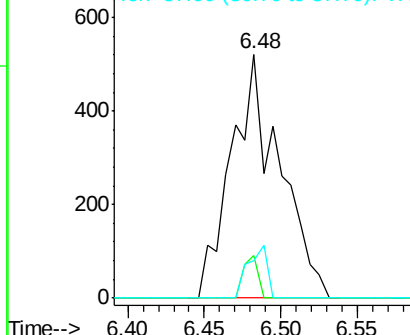
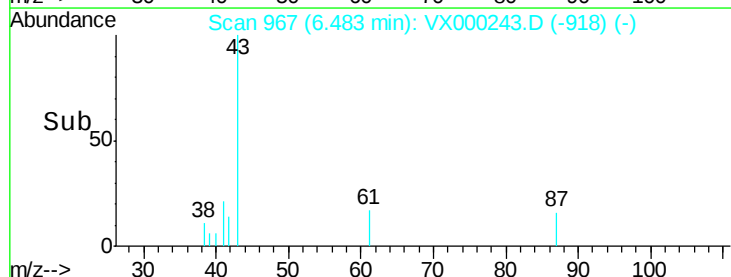
87 8.5 10.6 16.0#

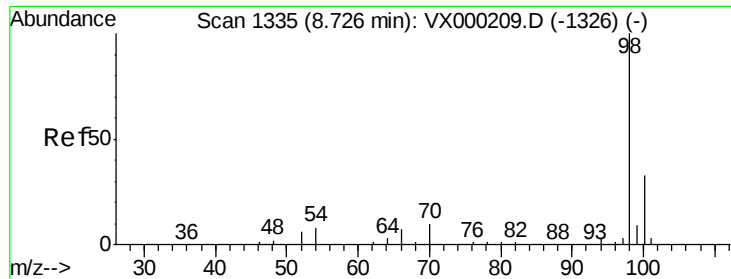


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

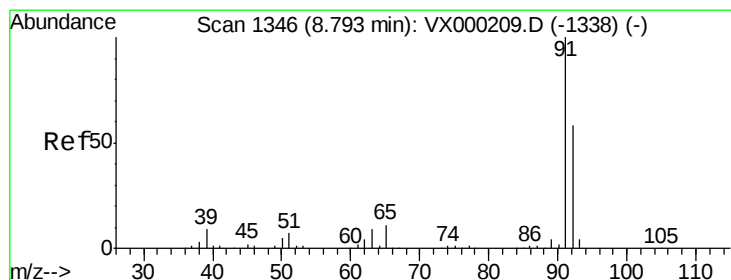
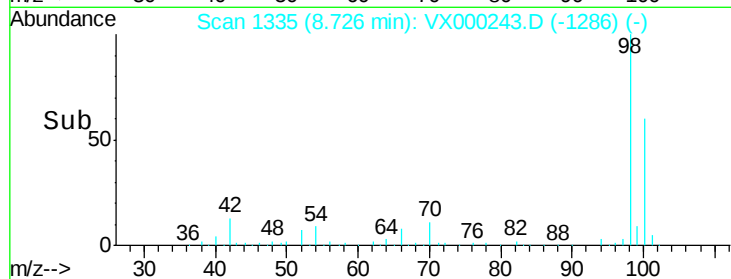
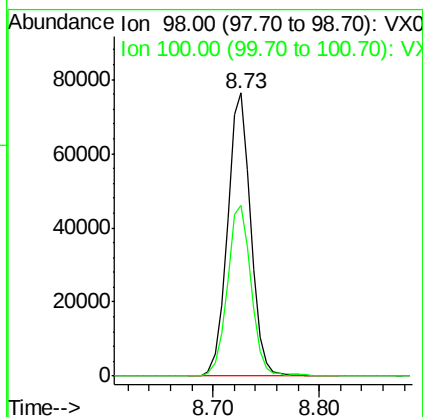
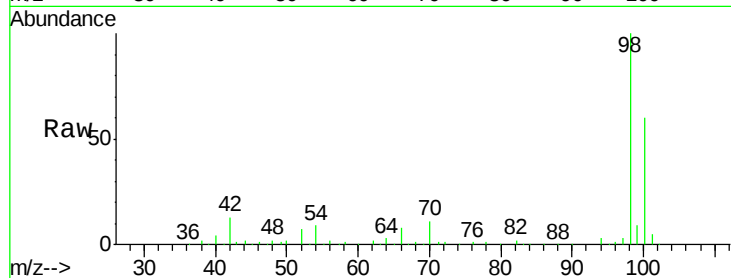




#50
Toluene-d8
Concen: 57.03 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VX000243.D
Acq: 09 Mar 2018 01:15

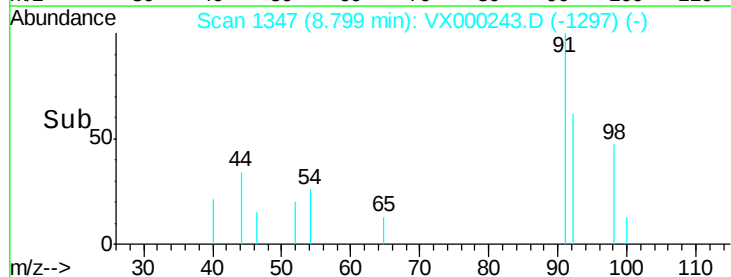
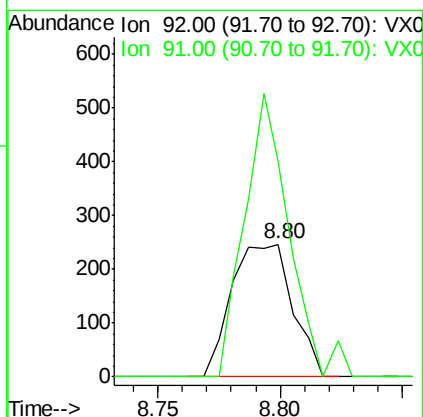
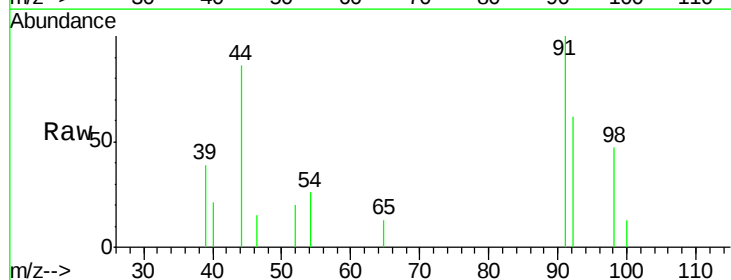
Instrument :
MSVOA_X
ClientSampled :

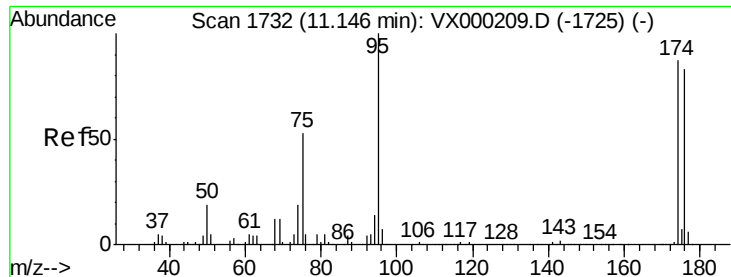
Tot Ion: 98 Resp: 116850
Ion Ratio Lower Upper
98 100
100 61.6 51.2 76.8



#52
Toluene
Concen: 0.31 ug/l
RT: 8.80 min Scan# 1347
Delta R.T. 0.01 min
Lab File: VX000243.D
Acq: 09 Mar 2018 01:15

Tgt Ion: 92 Resp: 427
Ion Ratio Lower Upper
92 100
91 156.7 139.0 208.6





#62

4-Bromofluorobenzene

Concen: 50.65 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

ClientSampleId :

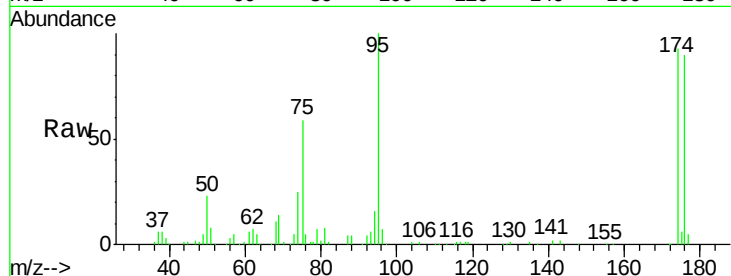
Tot Ion: 95 Resp: 40504

Ion Ratio Lower Upper

95 100

174 87.4 0.0 175.6

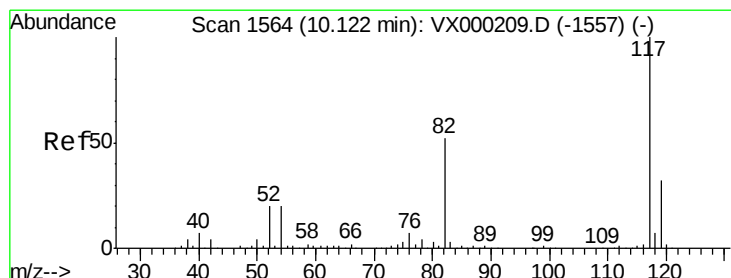
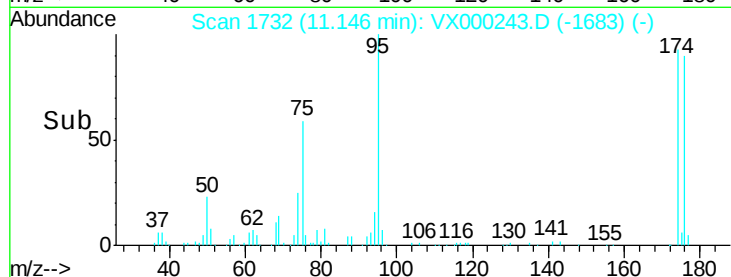
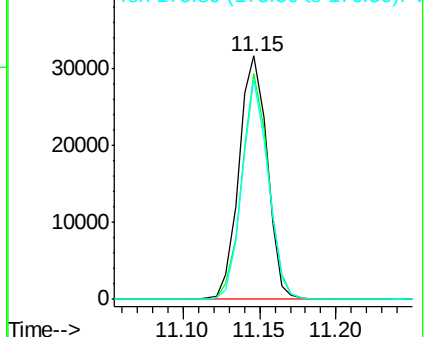
176 83.3 0.0 171.0



Abundance Ion 94.90 (94.60 to 95.60): VX000243.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000243.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000243.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

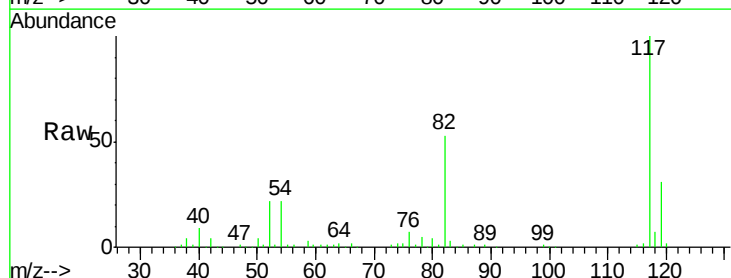
Tgt Ion: 117 Resp: 76887

Ion Ratio Lower Upper

117 100

82 52.7 42.0 63.0

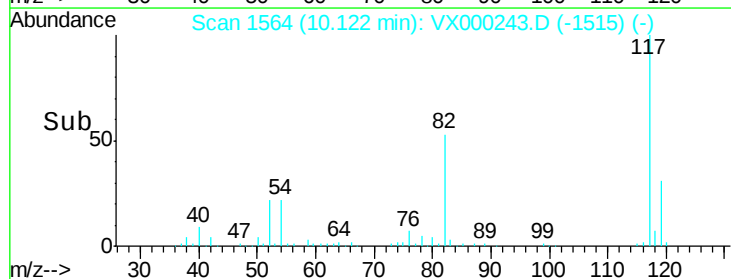
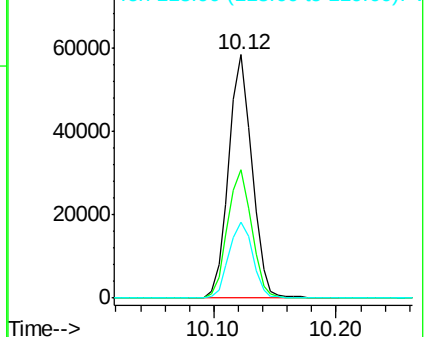
119 31.4 25.3 37.9

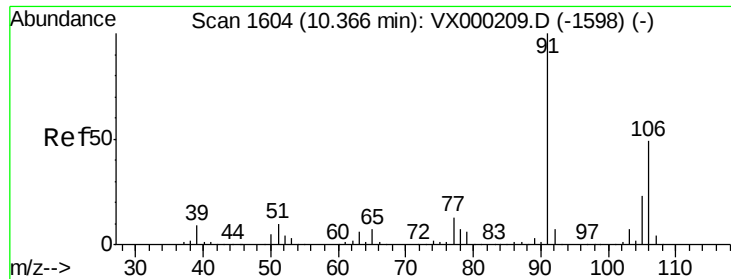


Abundance Ion 116.90 (116.60 to 117.60): VX000243.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000243.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000243.D (-1515) (-)

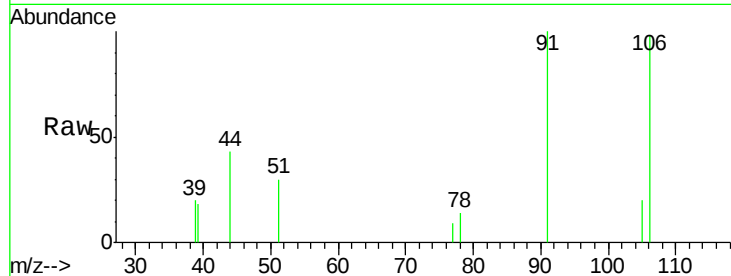




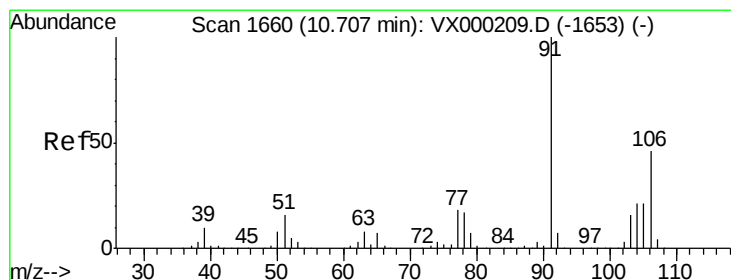
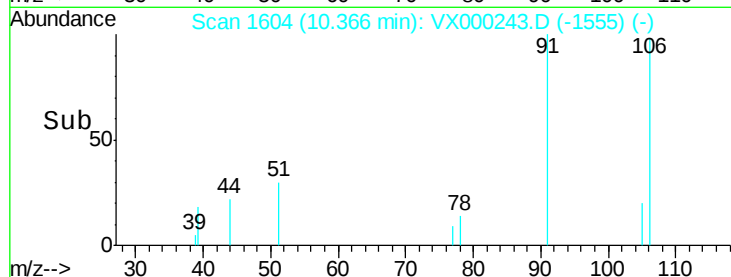
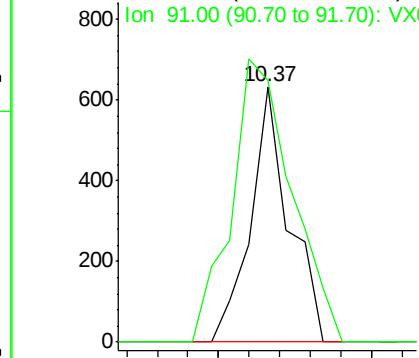
#68
m/p-Xvlenes
Concen: 0.53 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VX000243.D
Acq: 09 Mar 2018 01:15

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:106 Resp: 551
Ion Ratio Lower Upper
106 100
91 173.7 160.9 241.3

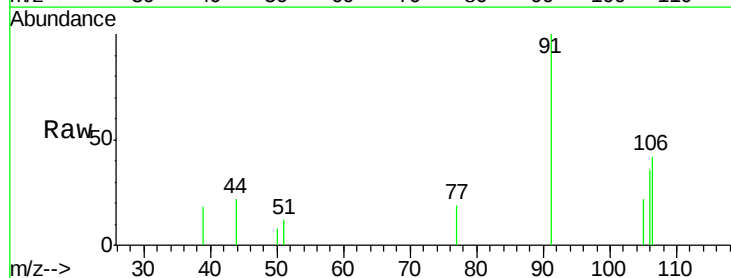


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

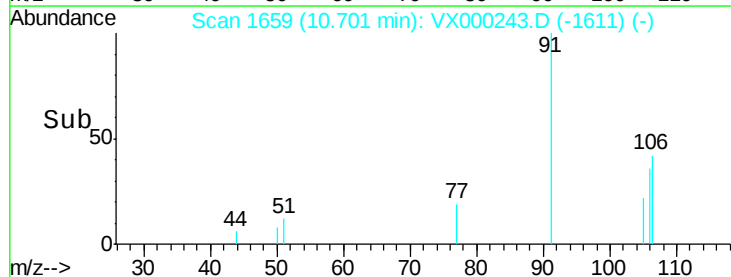
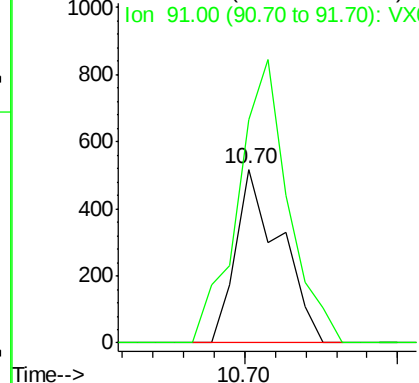


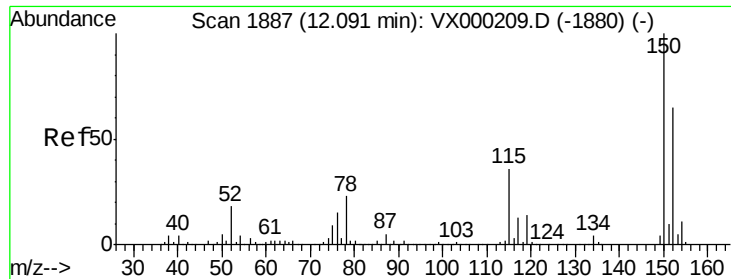
#69
o-Xylene
Concen: 0.52 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VX000243.D
Acq: 09 Mar 2018 01:15

Tgt Ion:106 Resp: 522
Ion Ratio Lower Upper
106 100
91 185.2 105.9 317.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.01 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

ClientSampleId :

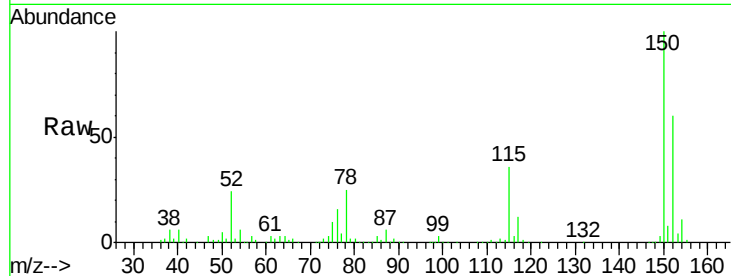
Tot Ion:152 Resp: 38919

Ion Ratio Lower Upper

152 100

115 57.9 39.8 119.3

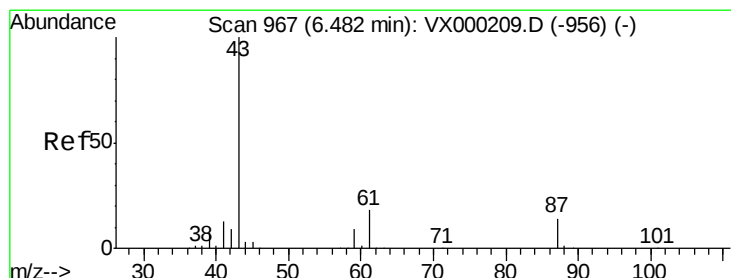
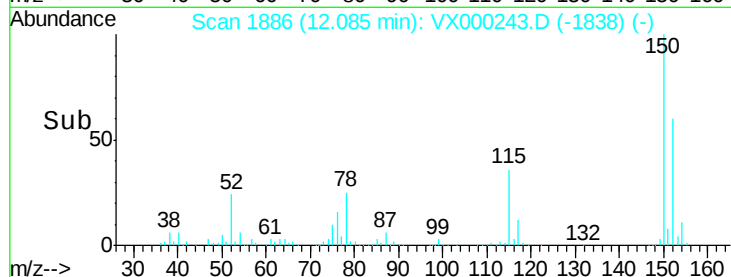
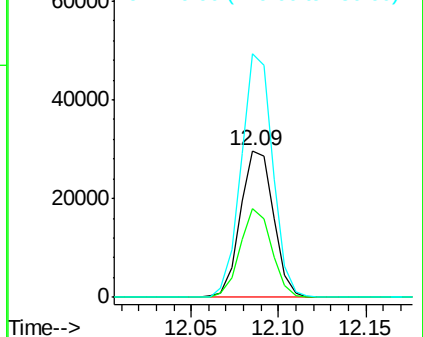
150 158.7 0.0 345.0



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



#74

N-ethyl acetate

Concen: 0.91 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Tgt Ion: 43 Resp: 1139

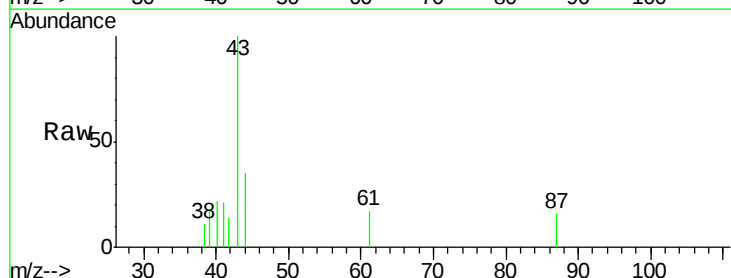
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 5.2 14.8 22.2#

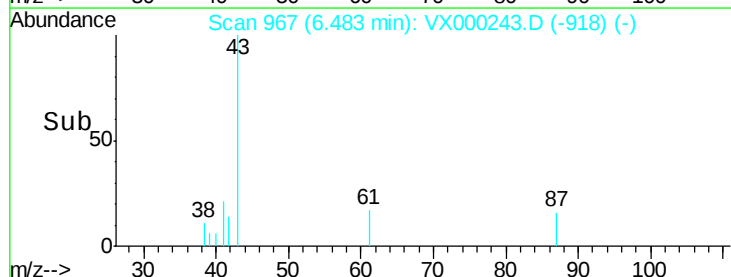
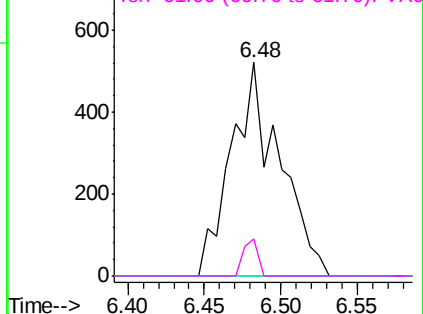


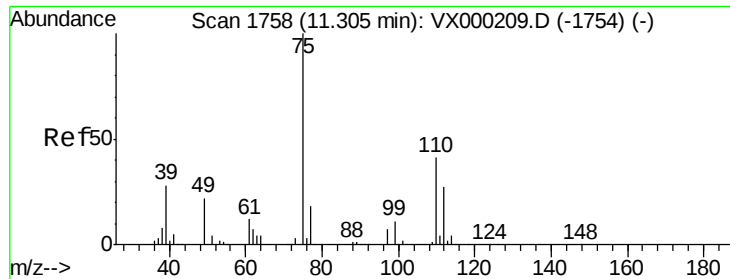
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

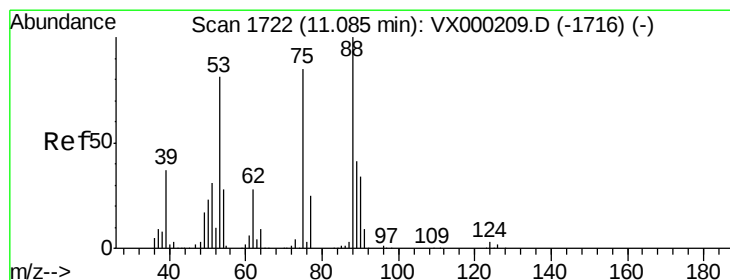
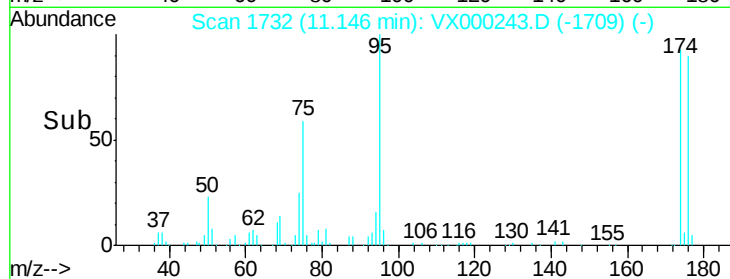
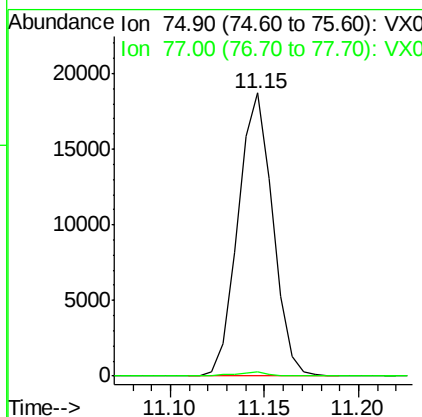
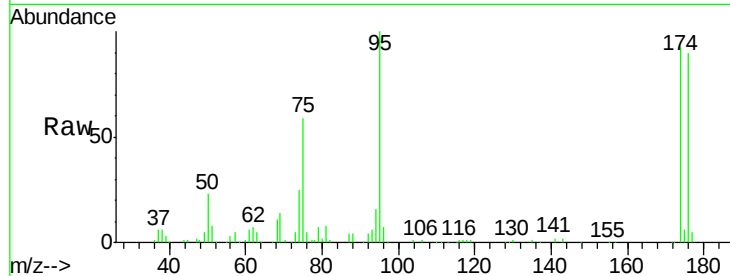




#76
 1,2,3-Trichloropropane
 Concen: 30.52 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. -0.16 min
 Lab File: VX000243.D
 Acq: 09 Mar 2018 01:15

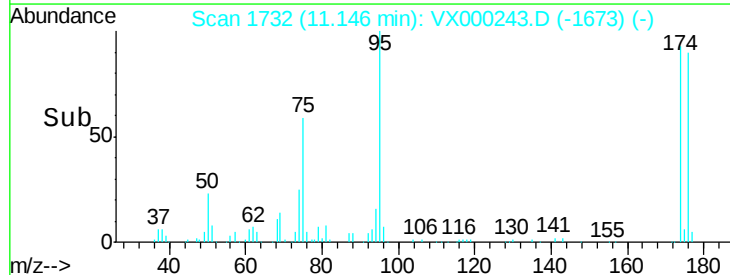
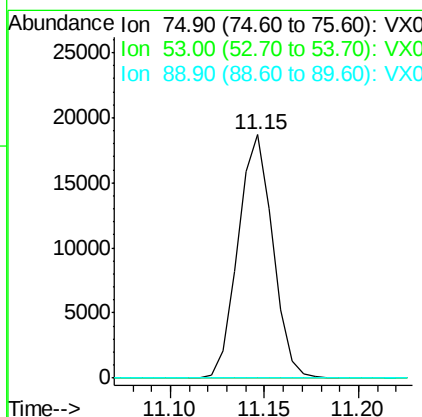
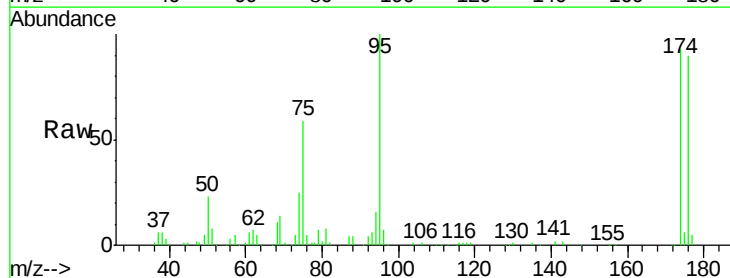
Instrument :
 MSVOA_X
 ClientSampleId :

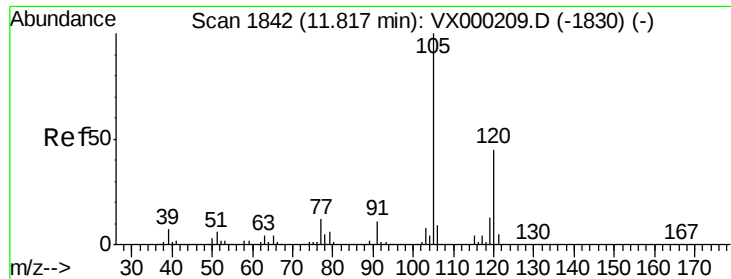
Tot Ion: 75 Resp: 23807
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.3 66.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.44 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.06 min
 Lab File: VX000243.D
 Acq: 09 Mar 2018 01:15

Tgt Ion: 75 Resp: 23807
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.6 118.0#
 89 0.0 38.8 58.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.46 ug/l

RT: 11.82 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VX000243.D

Acq: 09 Mar 2018 01:15

Instrument :

MSVOA_X

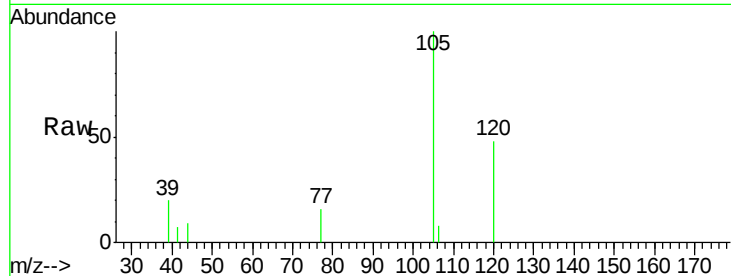
ClientSampleId :

Tot Ion:105 Resp: 959

Ion Ratio Lower Upper

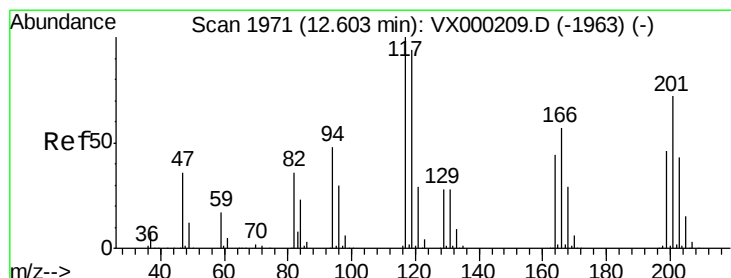
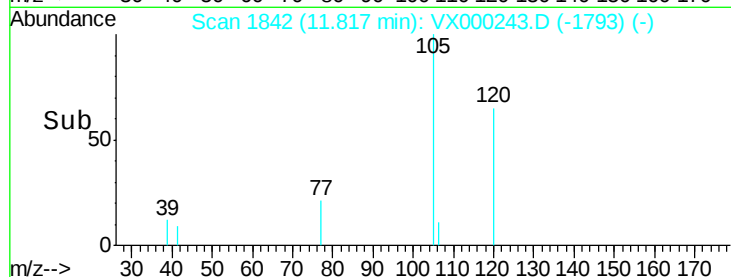
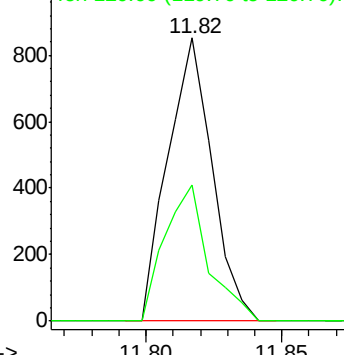
105 100

120 47.7 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 0.21 ug/l

RT: 12.76 min Scan# 1996

Delta R.T. 0.15 min

Lab File: VX000243.D

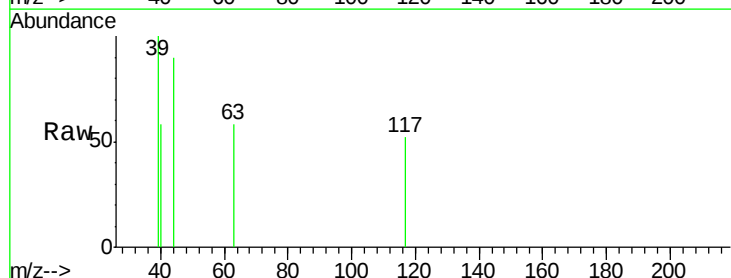
Acq: 09 Mar 2018 01:15

Tgt Ion:117 Resp: 75

Ion Ratio Lower Upper

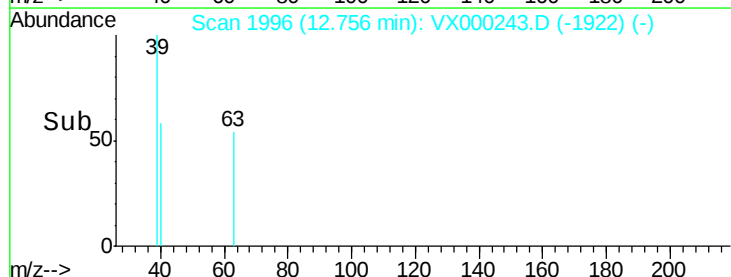
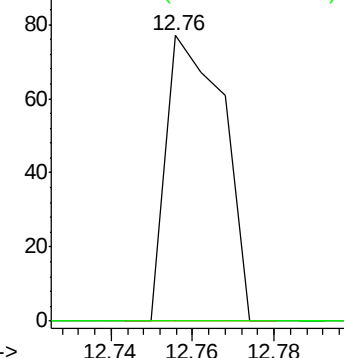
117 100

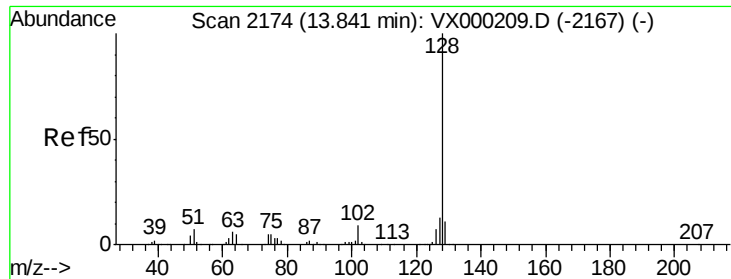
201 0.0 38.2 114.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

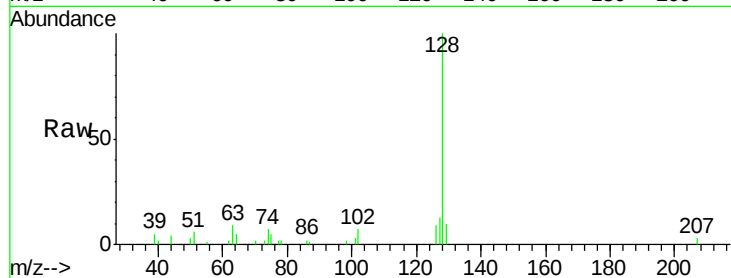




#95
Naphthalene
Concen: 1.82 ug/l
RT: 13.85 min Scan# 2175
Delta R.T. 0.01 min
Lab File: VX000243.D
Acq: 09 Mar 2018 01:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	11.7	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

