

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010919\
 Data File : VX006966.D
 Acq On : 09 Jan 2019 15:40
 Operator : JC/MD
 Sample : K1082-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-1-6

Quant Time: Jan 10 00:56:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	619448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	958713	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	894110	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	428563	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	331493	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
35) Dibromofluoromethane	5.51	113	297343	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.71	98	1142678	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	11.13	95	399618	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	

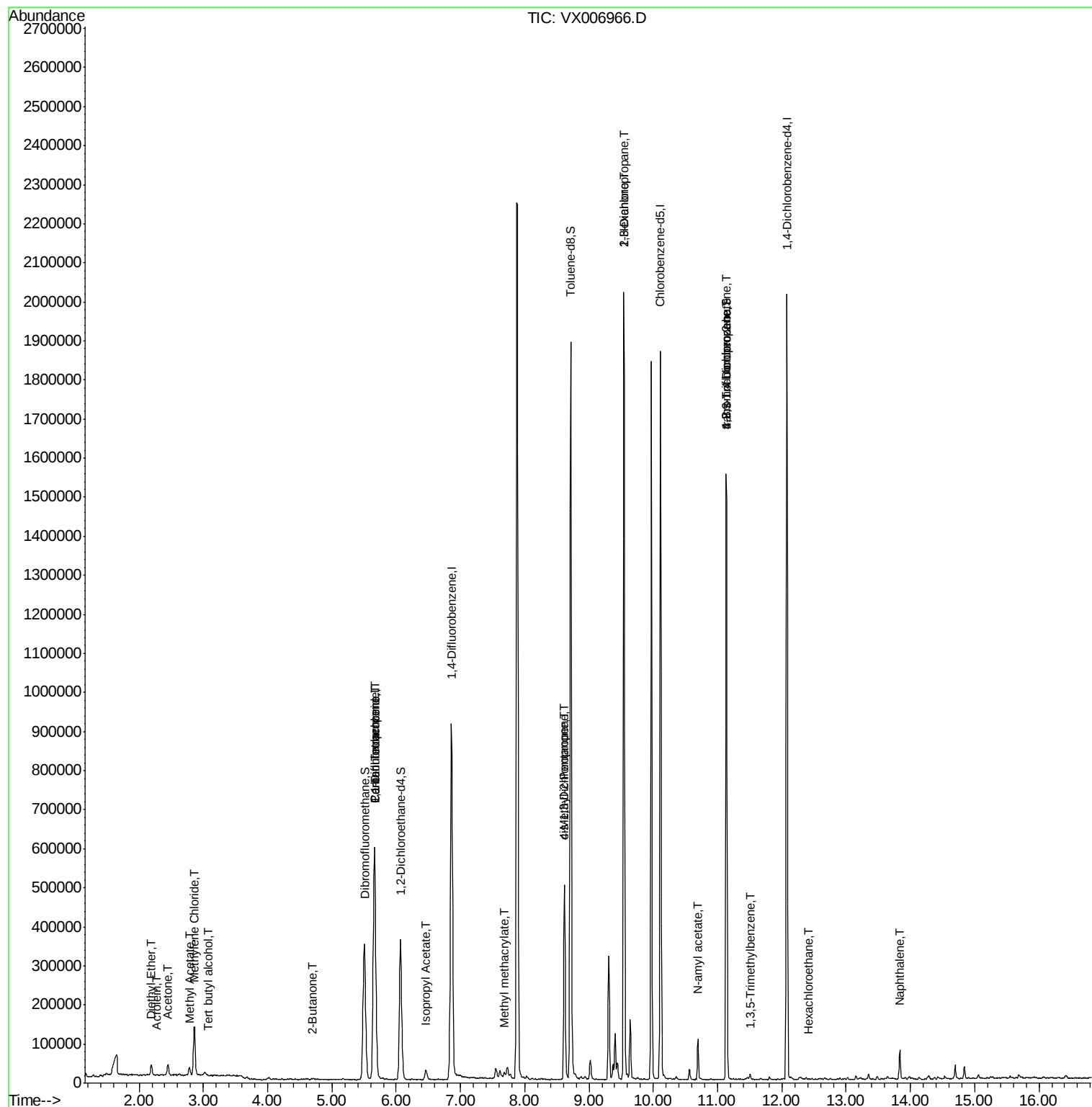
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	9996	2.441	ug/l	99
11) Tert butyl alcohol	3.08	59	2352	1.540	ug/l #	1
13) Acrolein	2.27	56	727	4.174	ug/l #	67
16) Acetone	2.45	43	33403	10.437	ug/l	98
18) Methyl Acetate	2.78	43	27216	2.936	ug/l	97
20) Methylene Chloride	2.85	84	61303	9.614	ug/l	97
25) 2-Butanone	4.70	43	3951	0.863	ug/l #	81
36) 1,1-Dichloropropene	5.67	75	40522	4.862	ug/l #	48
38) Carbon Tetrachloride	5.67	117	55978	6.675	ug/l #	15
43) Isopropyl Acetate	6.46	43	33188	2.355	ug/l	98
48) Methyl methacrylate	7.68	41	17616	2.434	ug/l #	12
49) 1,4-Dioxane	7.77	88	108	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	164061	18.111	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	83016	8.863	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	17682	1.650	ug/l #	47
59) 2-Hexanone	9.54	43	228775	33.141	ug/l #	51
74) N-amyl acetate	10.69	43	23028	1.893	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	189185	21.784	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	5999	0.238	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	189185	64.550	ug/l #	10
90) Hexachloroethane	12.41	117	46	2.918	ug/l	80
95) Naphthalene	13.83	128	47011	1.523	ug/l	99

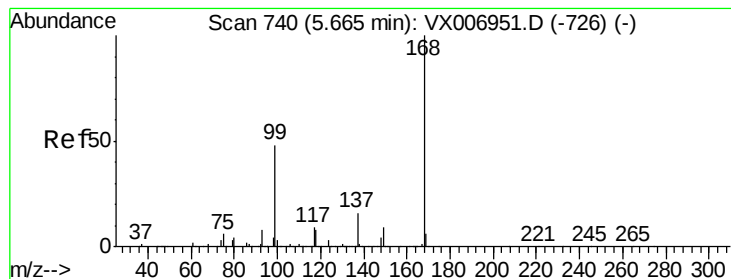
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010919\
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Quant Time: Jan 10 00:56:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

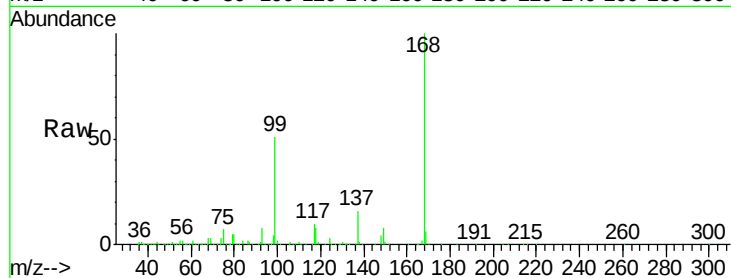
SP-1-6

Tot Ion:168 Resp: 619448

Ion Ratio Lower Upper

168 100

99 50.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

150000

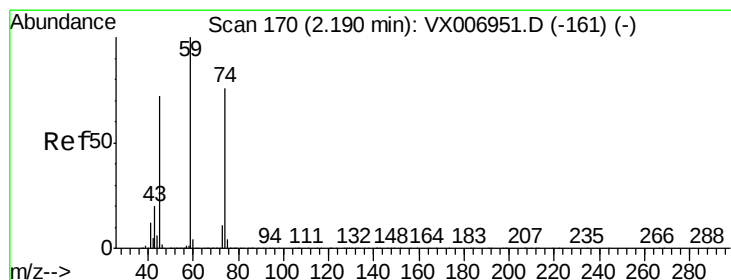
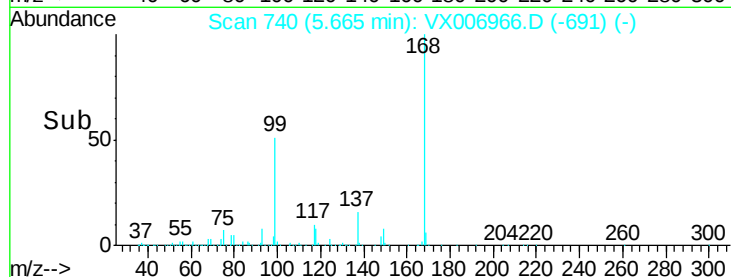
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 2.441 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX006966.D

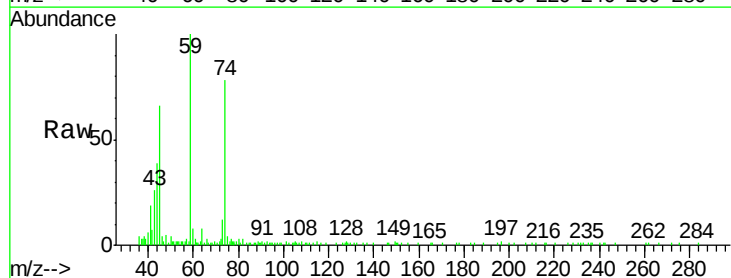
Acq: 09 Jan 2019 15:40

Tgt Ion: 74 Resp: 9996

Ion Ratio Lower Upper

74 100

45 93.5 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

8000

6000

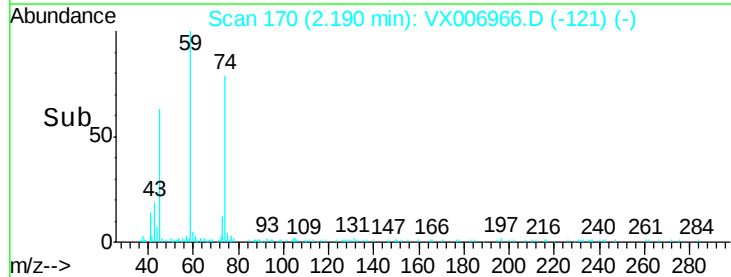
4000

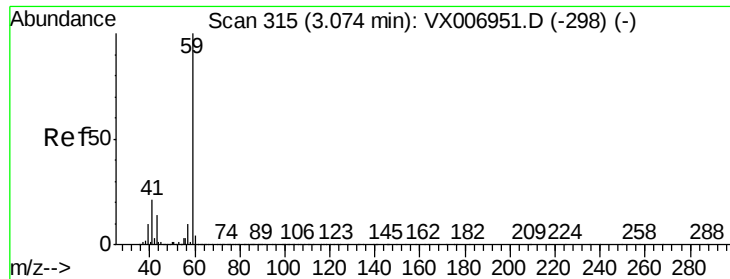
2000

0

Time-->

2.10 2.15 2.20 2.25

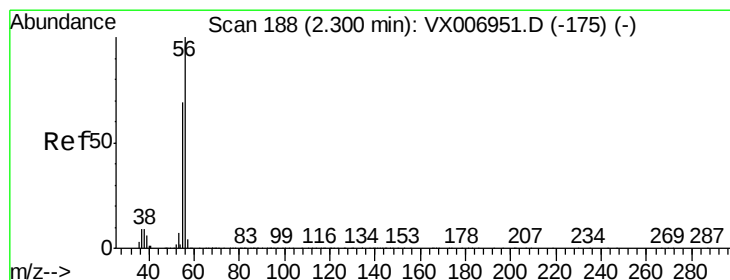
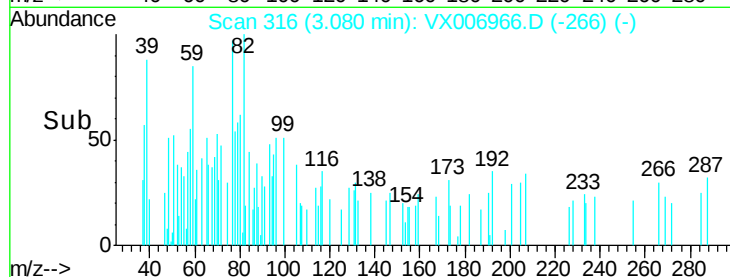
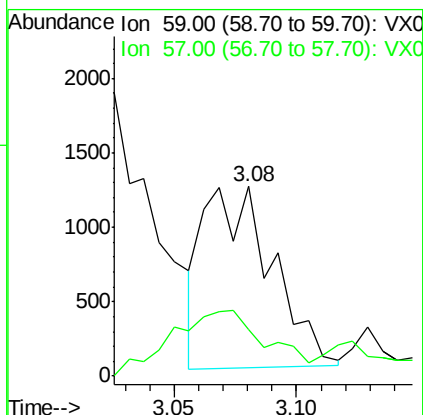
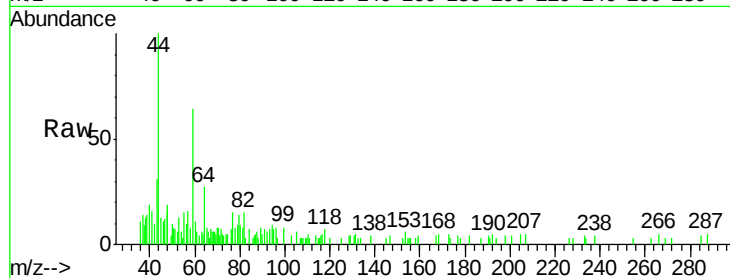




#11
Tert butyl alcohol
Concen: 1.540 ug/l
RT: 3.08 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

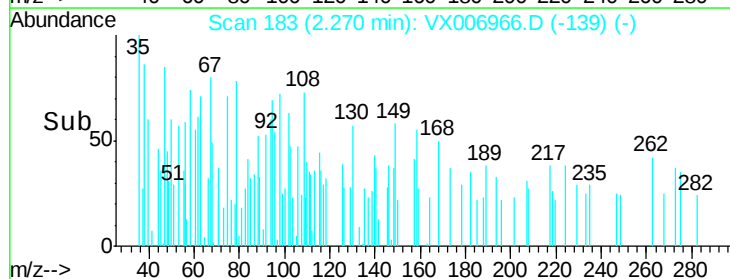
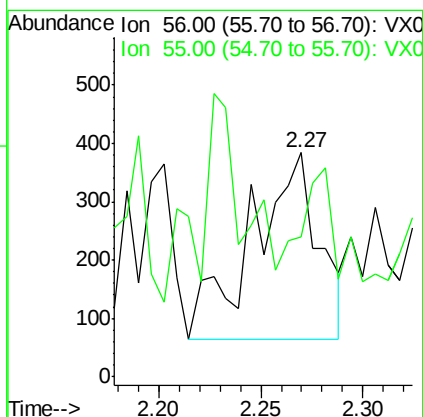
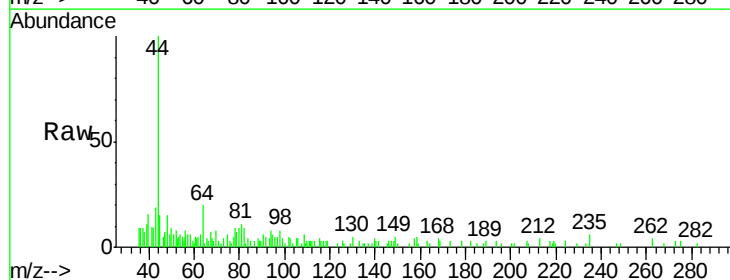
Instrument :
MSVOA_X
ClientSampled :
SP-1-6

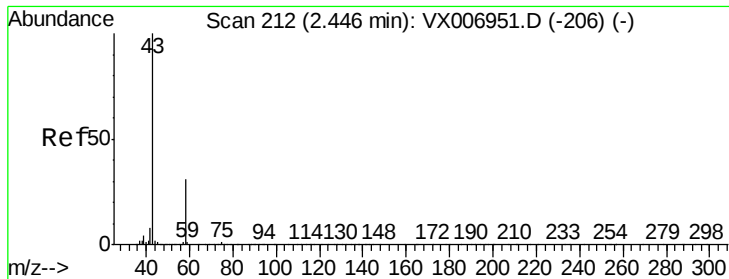
Tot Ion: 59 Resp: 2352
Ion Ratio Lower Upper
59 100
57 51.7 8.5 12.7#



#13
Acrolein
Concen: 4.174 ug/l
RT: 2.27 min Scan# 183
Delta R.T. -0.03 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

Tgt Ion: 56 Resp: 727
Ion Ratio Lower Upper
56 100
55 45.0 58.2 87.4#

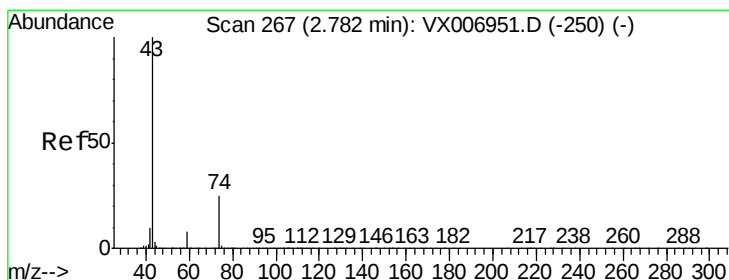
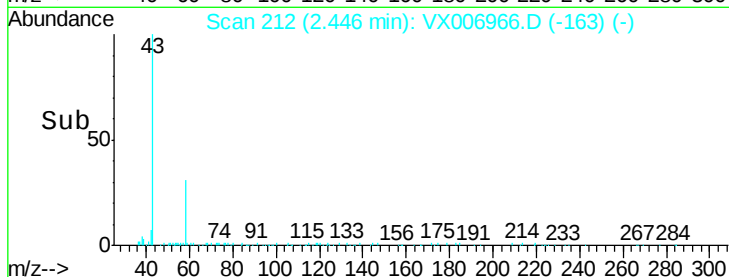
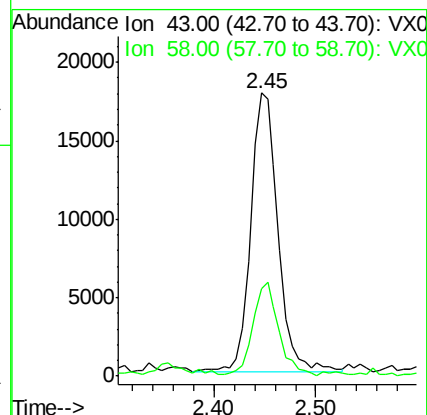
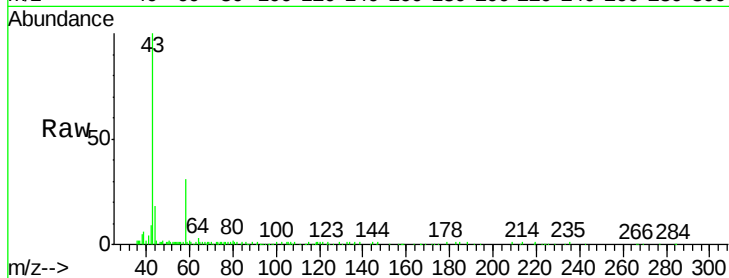




#16
Acetone
Concen: 10.437 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

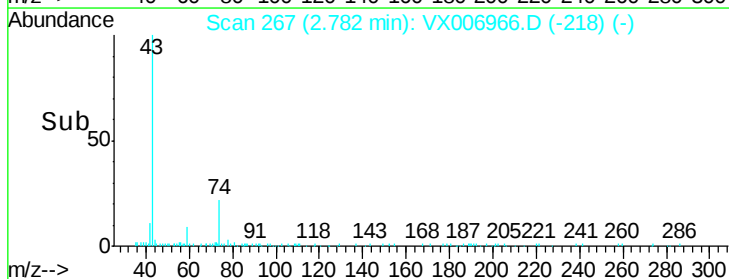
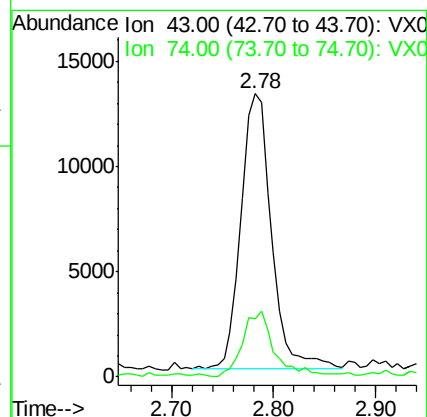
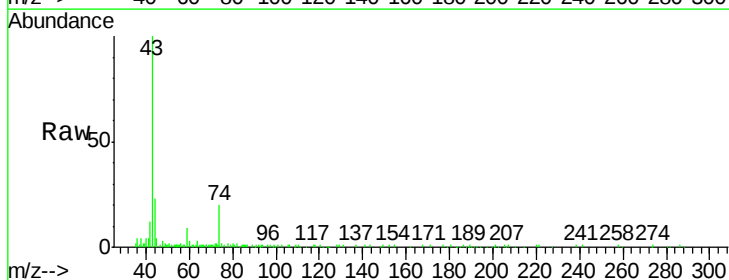
Instrument :
MSVOA_X
ClientSampleId :
SP-1-6

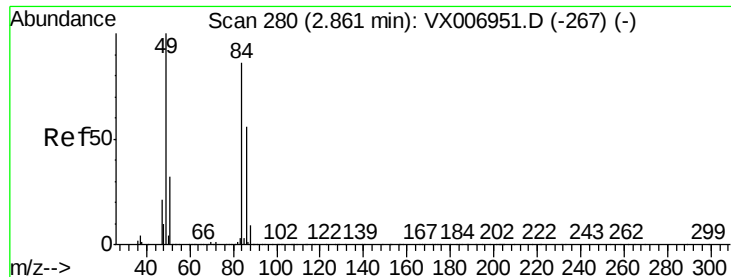
Tot Ion: 43 Resp: 33403
Ion Ratio Lower Upper
43 100
58 30.4 25.0 37.6



#18
Methyl Acetate
Concen: 2.936 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

Tgt Ion: 43 Resp: 27216
Ion Ratio Lower Upper
43 100
74 25.0 18.6 28.0





#20

Methylene Chloride

Concen: 9.614 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

SP-1-6

Tot Ion: 84 Resp: 61303

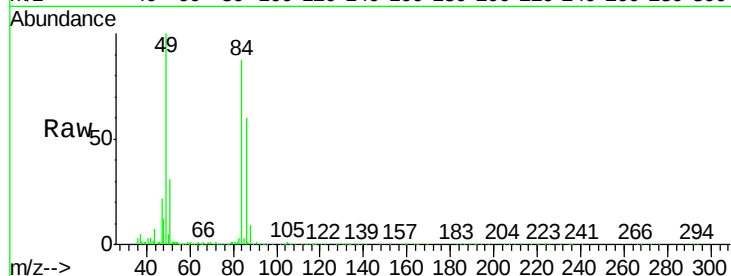
Ion Ratio Lower Upper

84 100

49 114.2 91.8 137.6

51 34.6 28.5 42.7

86 67.9 50.2 75.2



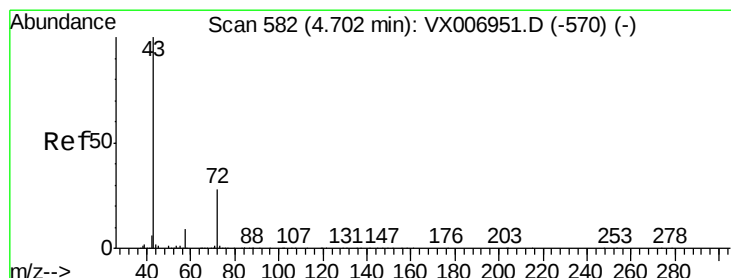
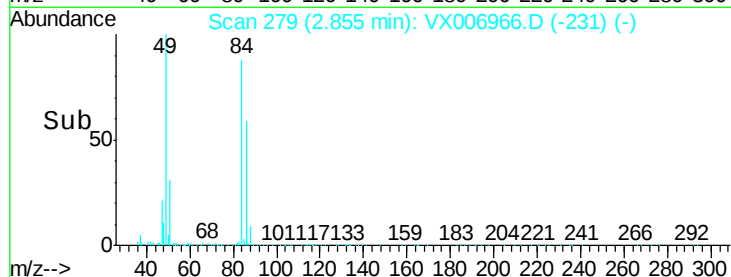
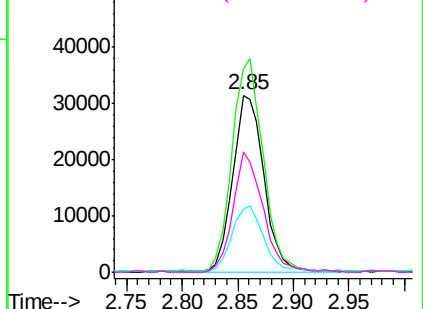
Abundance

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



#25

2-Butanone

Concen: 0.863 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX006966.D

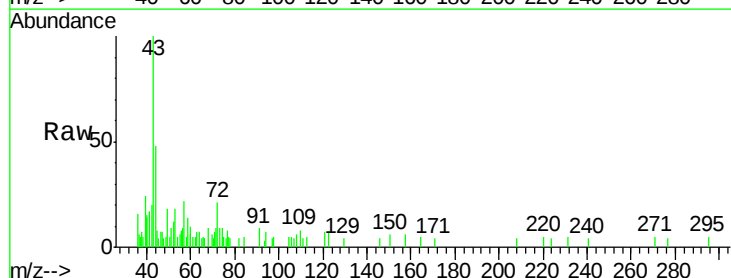
Acq: 09 Jan 2019 15:40

Tgt Ion: 43 Resp: 3951

Ion Ratio Lower Upper

43 100

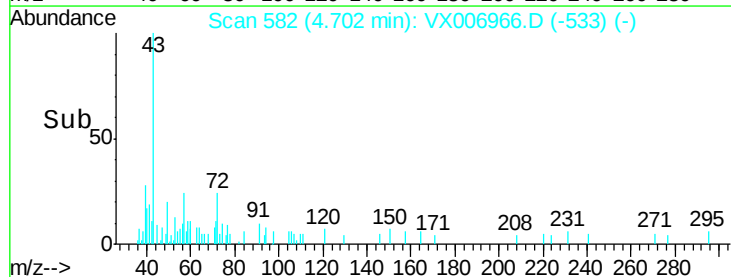
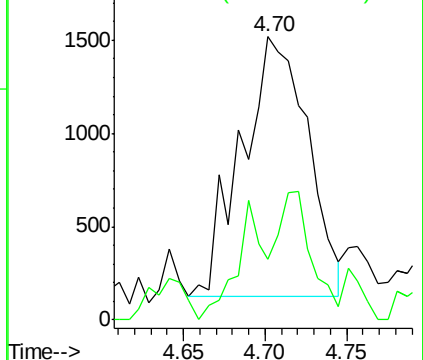
72 18.2 22.4 33.6#

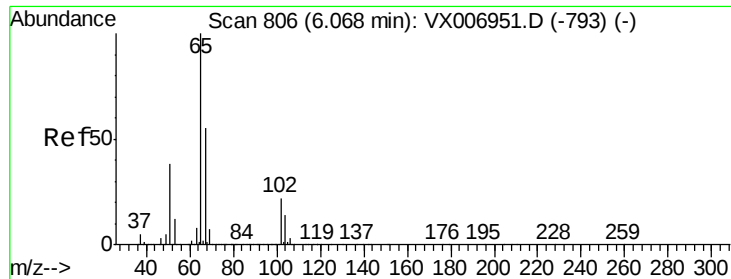


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.206 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

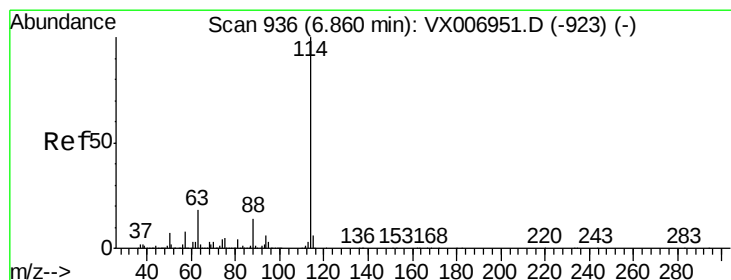
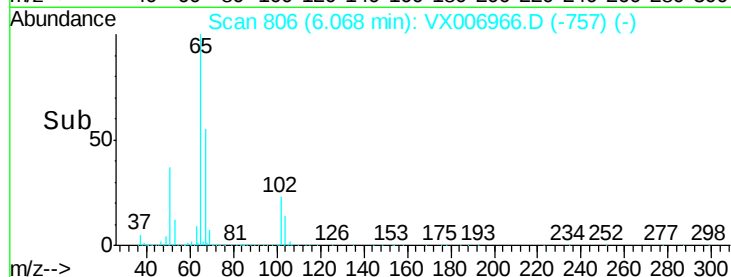
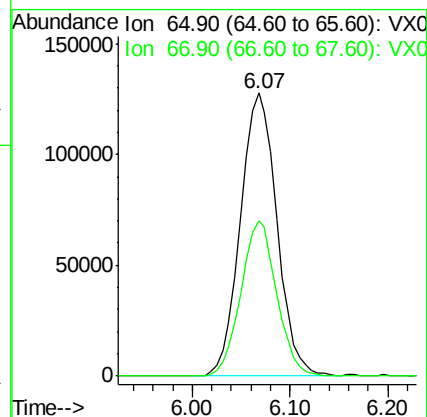
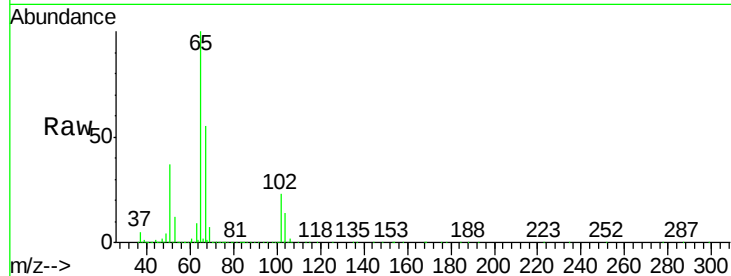
SP-1-6

Tot Ion: 65 Resp: 331493

Ion Ratio Lower Upper

65 100

67 53.9 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

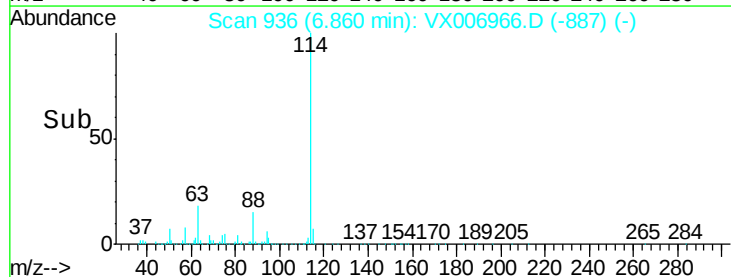
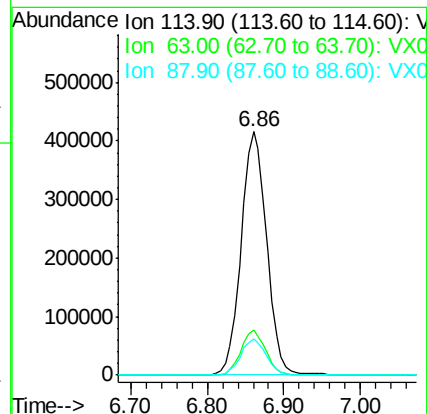
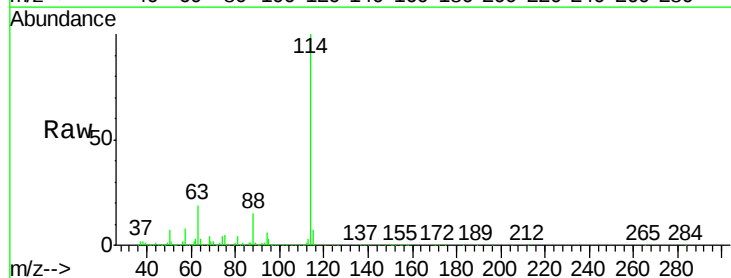
Tgt Ion: 114 Resp: 958713

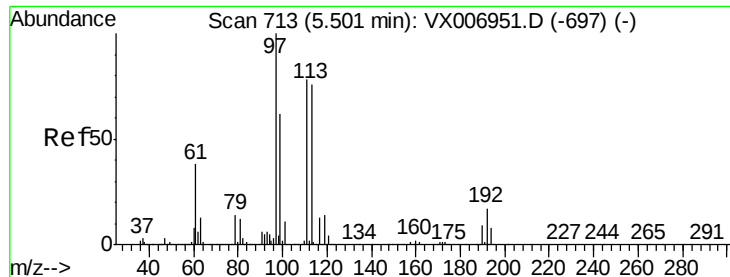
Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.8

88 15.1 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.431 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

SP-1-6

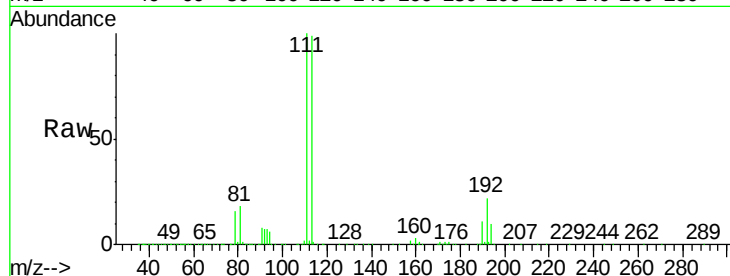
Tot Ion:113 Resp: 297343

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

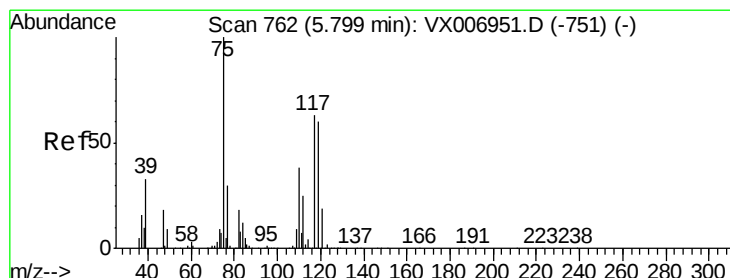
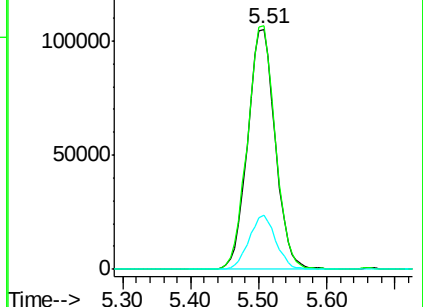
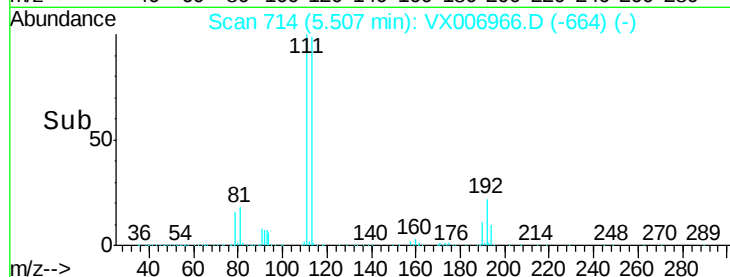
192 22.1 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.862 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

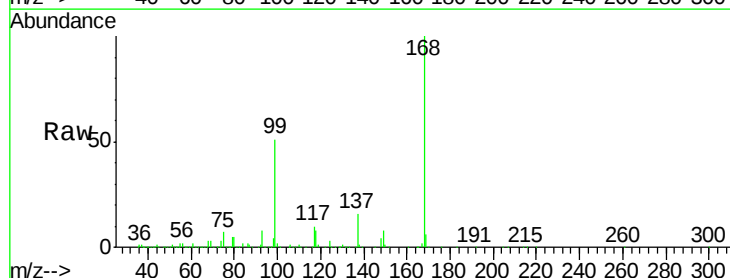
Tgt Ion: 75 Resp: 40522

Ion Ratio Lower Upper

75 100

110 9.6 20.2 60.5#

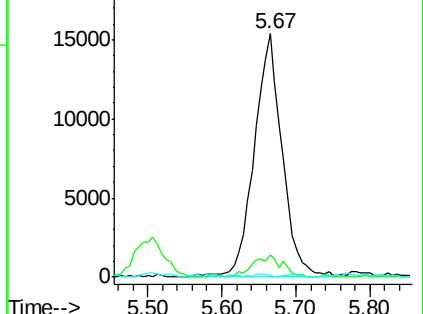
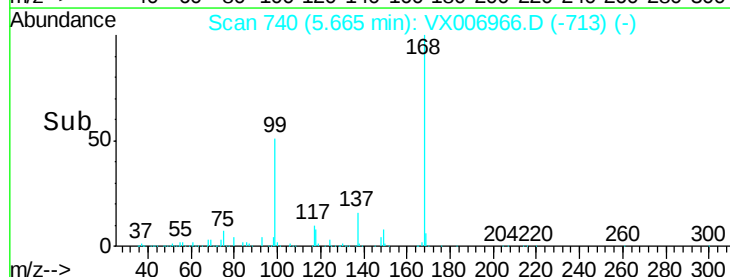
77 0.6 24.8 37.2#

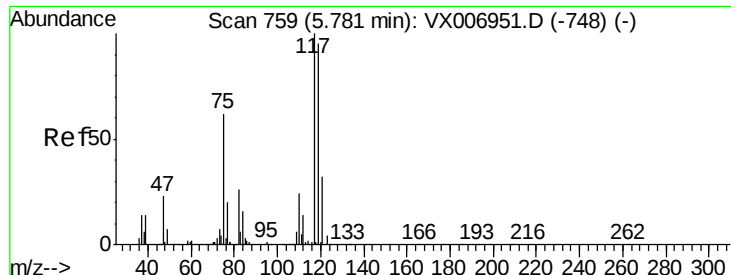


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.675 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

SP-1-6

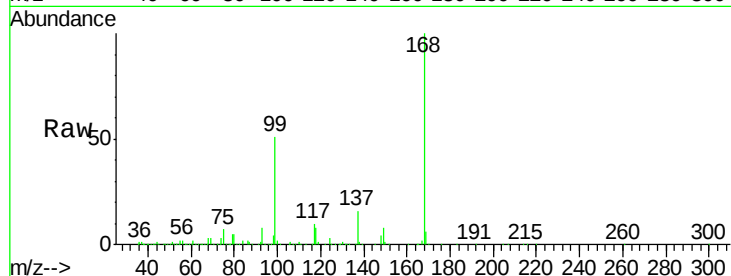
Tot Ion:117 Resp: 55978

Ion Ratio Lower Upper

117 100

119 5.9 79.4 119.2#

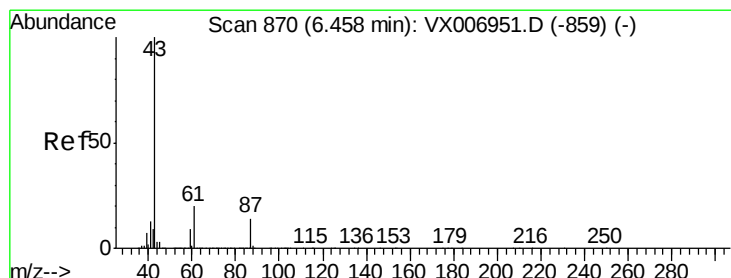
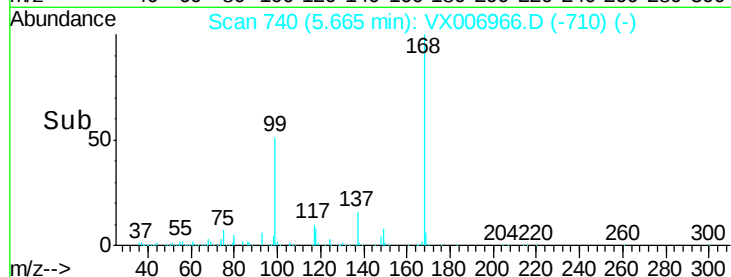
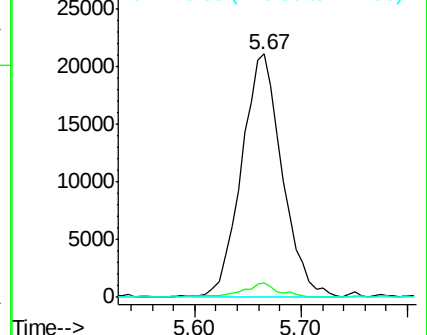
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.355 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

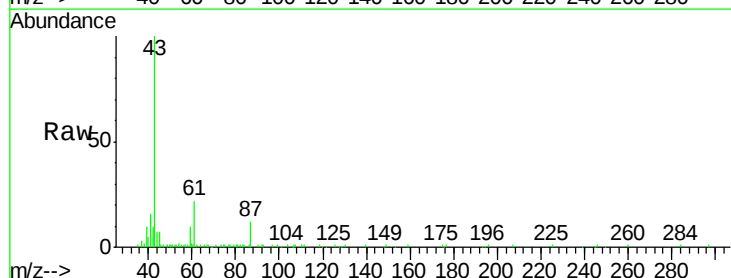
Tgt Ion: 43 Resp: 33188

Ion Ratio Lower Upper

43 100

61 22.2 16.8 25.2

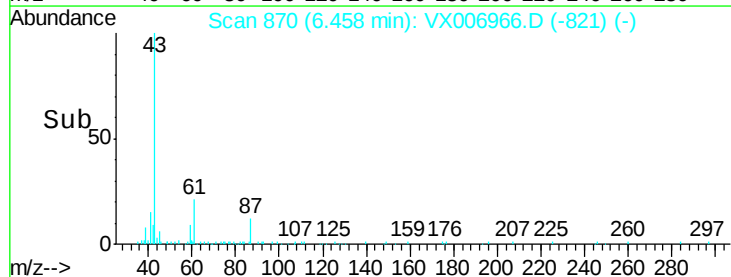
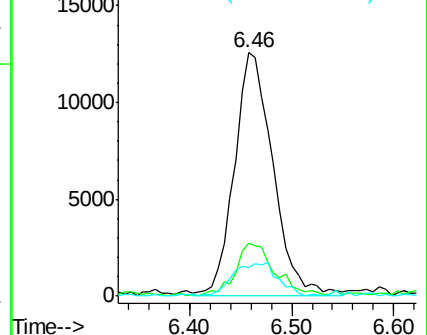
87 15.8 12.4 18.6

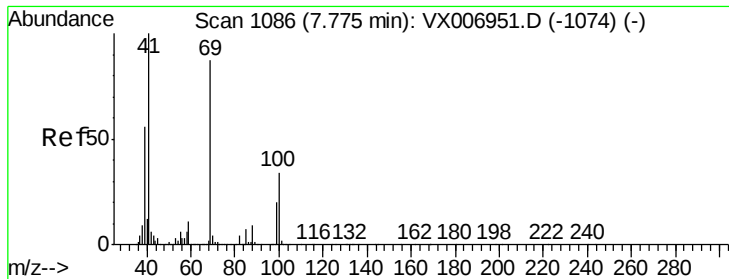


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

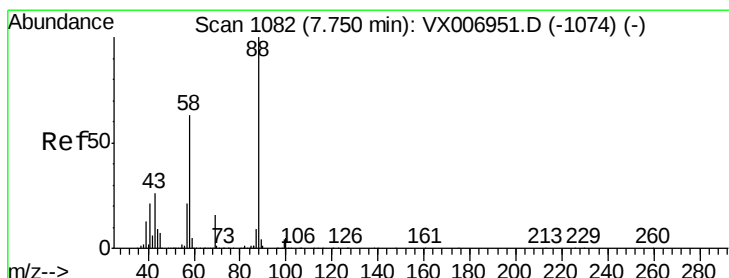
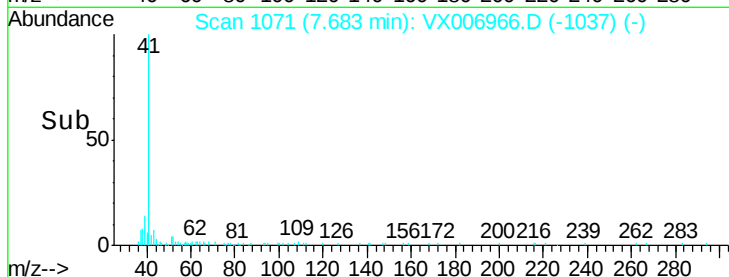
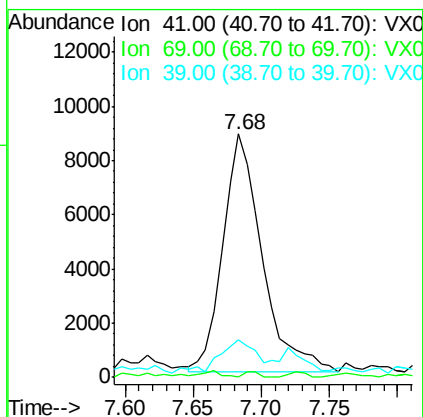
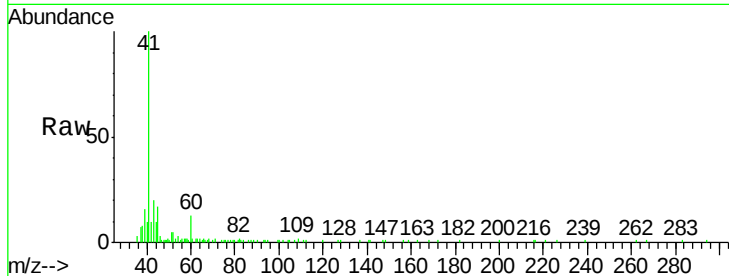




#48
Methvl methacrylate
Concen: 2.434 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

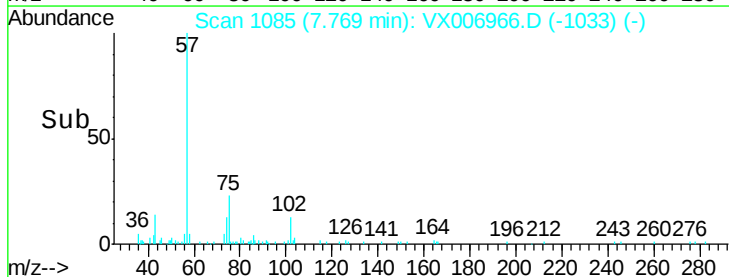
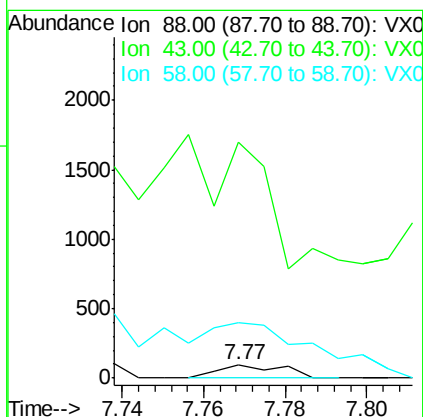
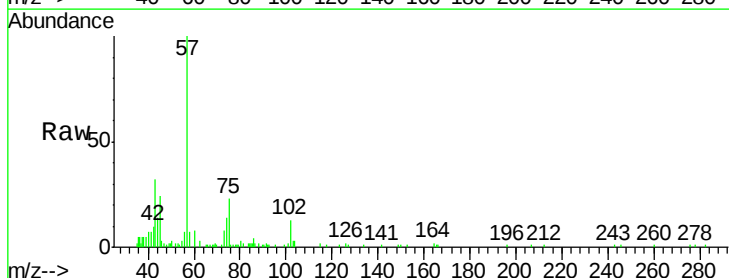
Instrument :
MSVOA_X
ClientSampleId :
SP-1-6

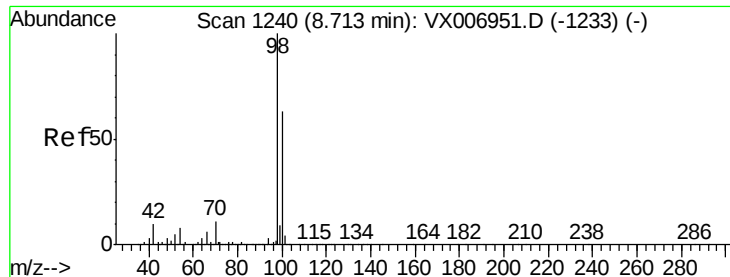
Tot Ion: 41 Resp: 17616
Ion Ratio Lower Upper
41 100
69 0.9 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.77 min Scan# 1085
Delta R.T. 0.02 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

Tgt Ion: 88 Resp: 108
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 677.8 51.0 76.4#





#50

Toluene-d8

Concen: 50.848 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

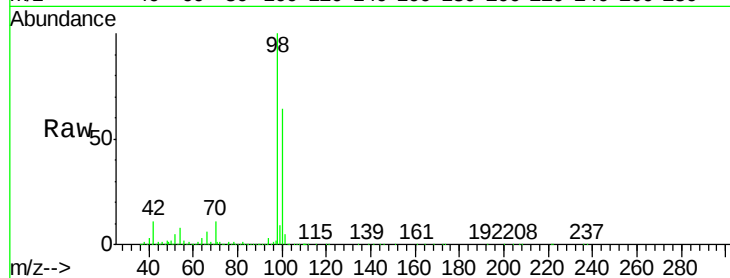
SP-1-6

Tot Ion: 98 Resp: 1142678

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

800000

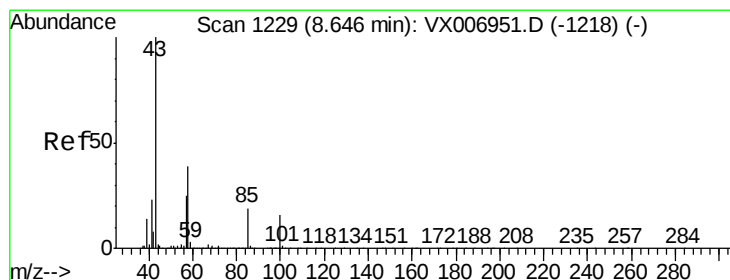
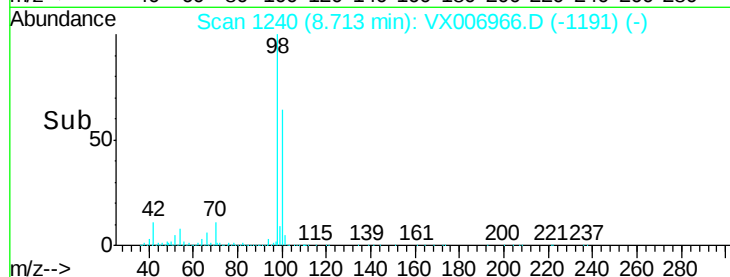
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 18.111 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006966.D

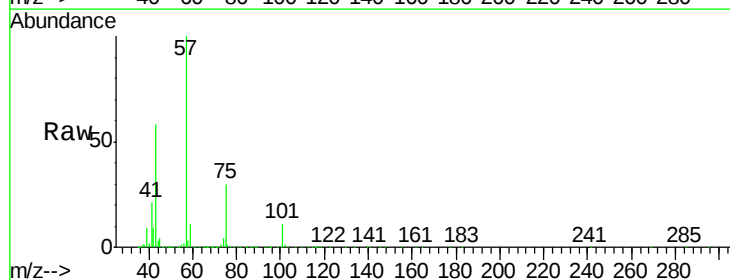
Acq: 09 Jan 2019 15:40

Tgt Ion: 43 Resp: 164061

Ion Ratio Lower Upper

43 100

58 7.2 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

120000

100000

80000

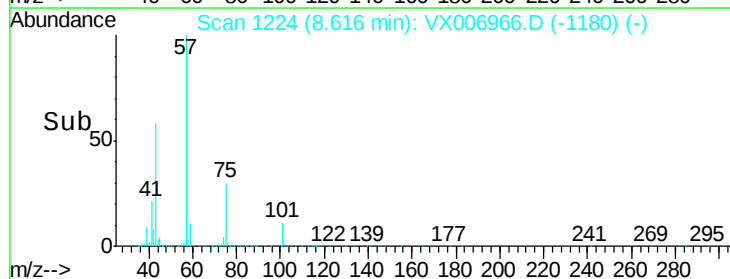
60000

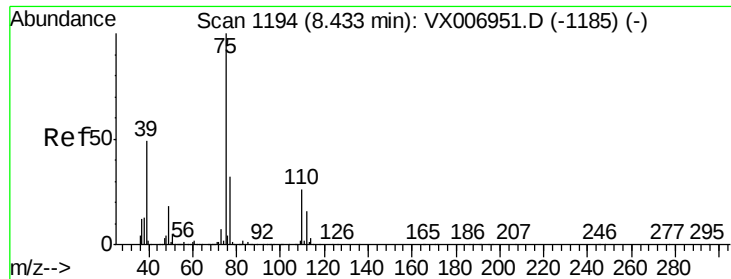
40000

20000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 8.863 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

SP-1-6

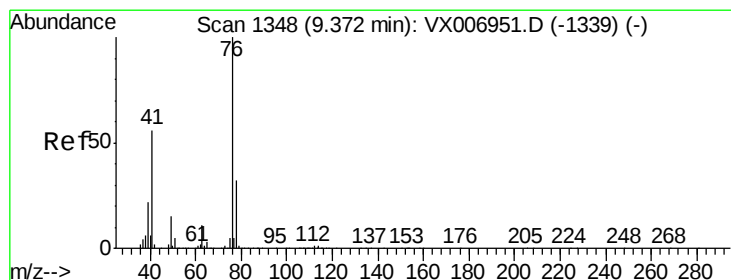
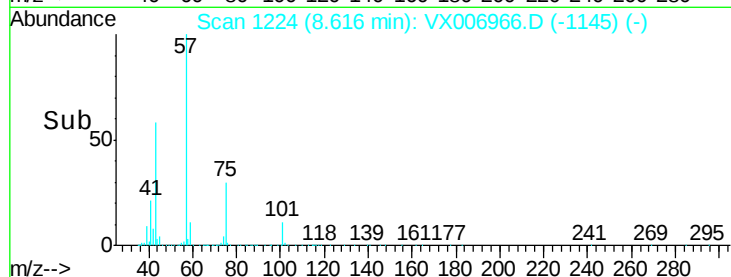
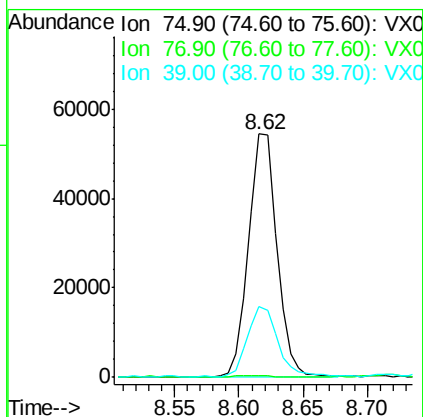
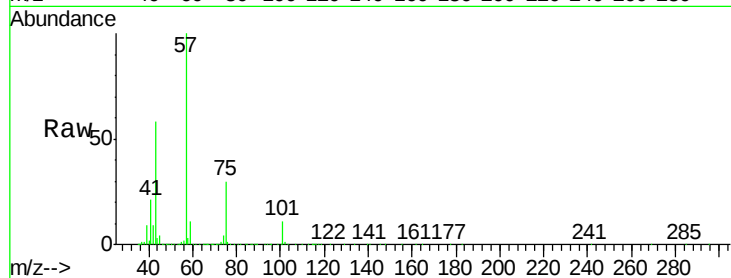
Tot Ion: 75 Resp: 83016

Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 28.9 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.650 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006966.D

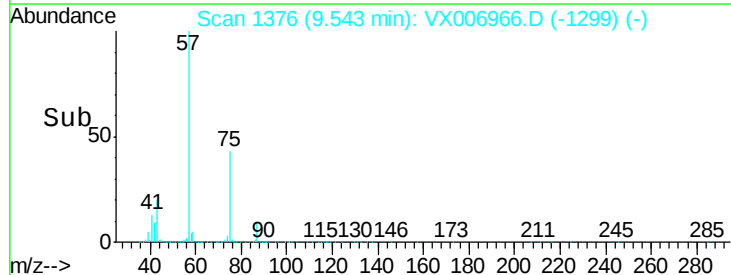
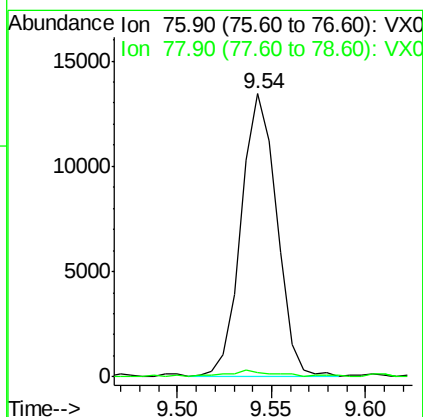
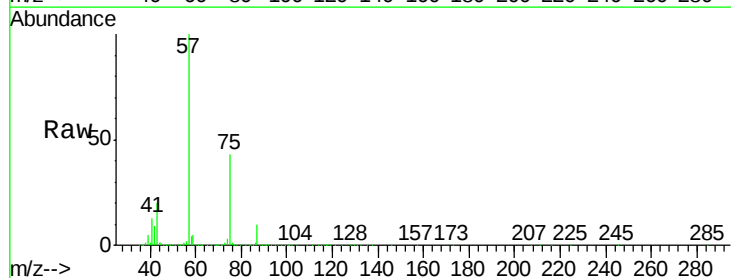
Acq: 09 Jan 2019 15:40

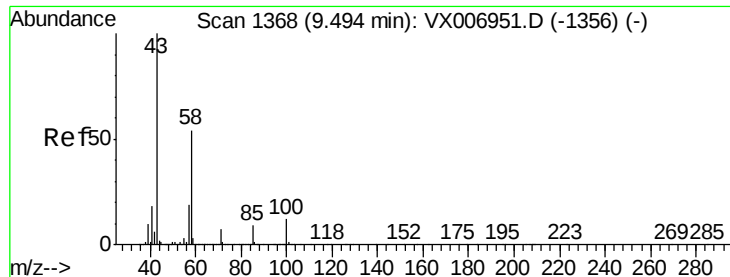
Tgt Ion: 76 Resp: 17682

Ion Ratio Lower Upper

76 100

78 2.7 26.0 39.0#

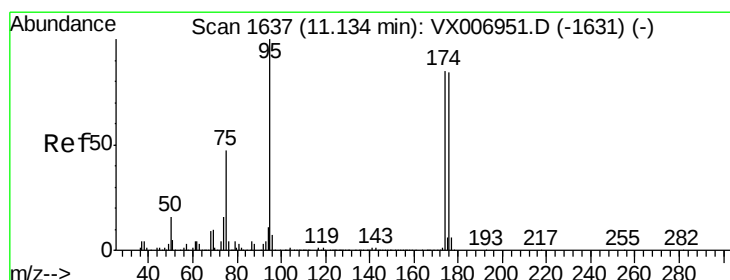
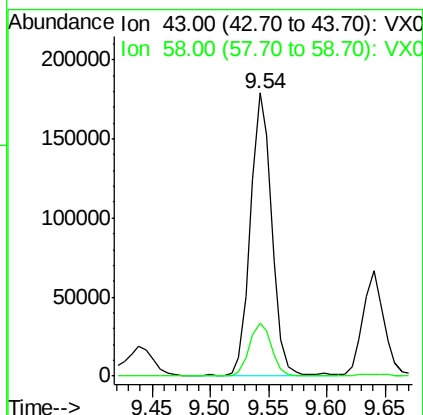
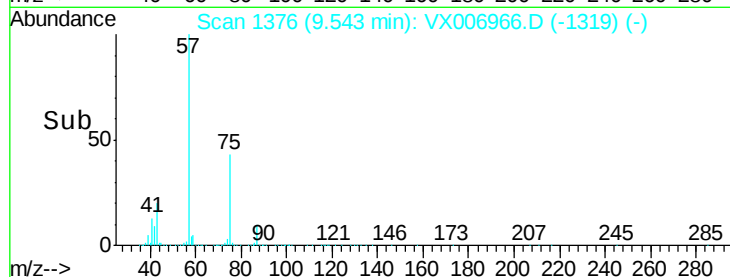
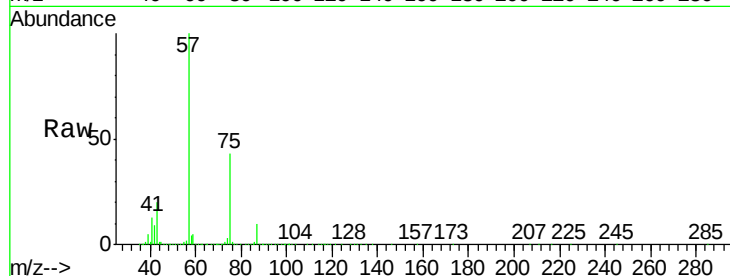




#59
2-Hexanone
Concen: 33.141 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

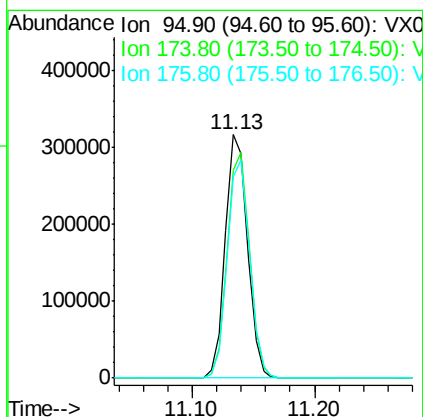
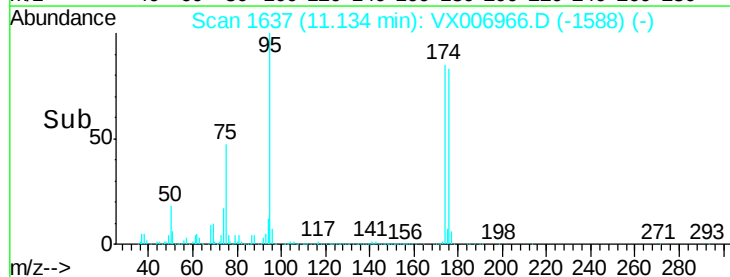
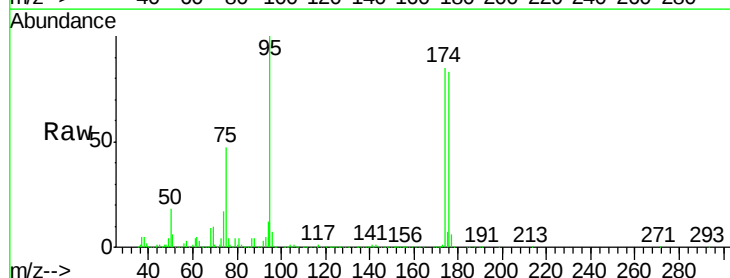
Instrument :
MSVOA_X
ClientSampleId :
SP-1-6

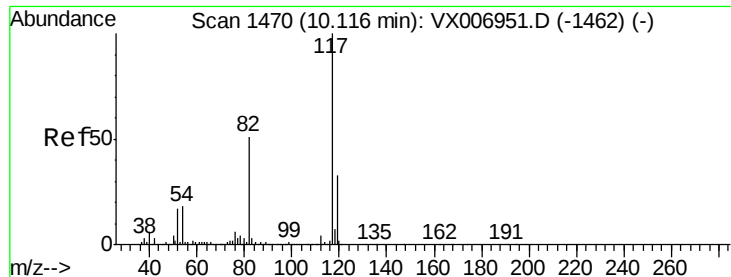
Tot Ion: 43 Resp: 228775
Ion Ratio Lower Upper
43 100
58 20.0 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 51.007 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

Tgt Ion: 95 Resp: 399618
Ion Ratio Lower Upper
95 100
174 92.8 0.0 182.2
176 89.9 0.0 178.8

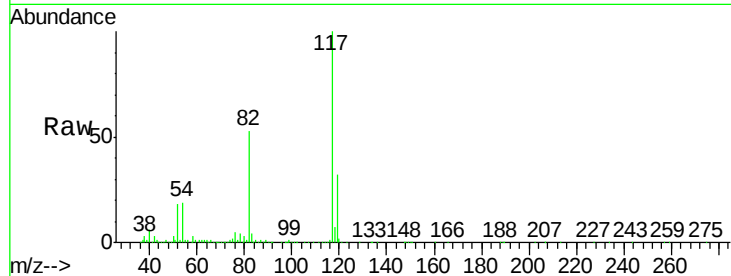




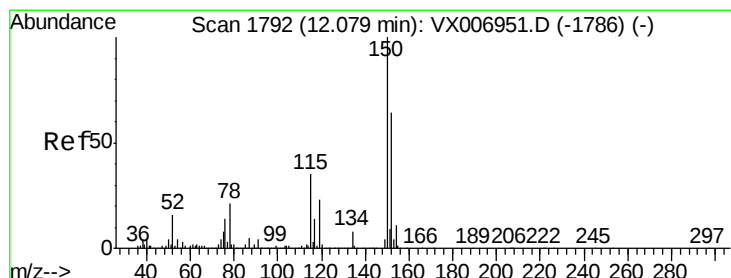
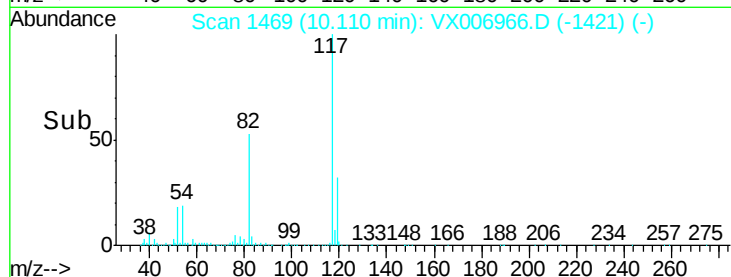
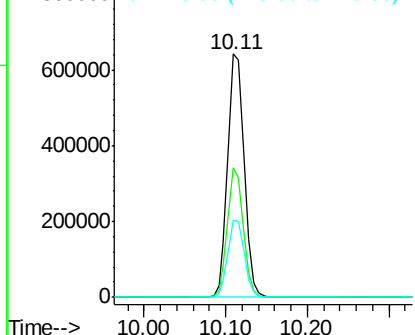
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

Instrument :
MSVOA_X
ClientSampleId :
SP-1-6

Tot Ion:117 Resp: 894110
Ion Ratio Lower Upper
117 100
82 53.3 41.0 61.6
119 31.9 25.4 38.0

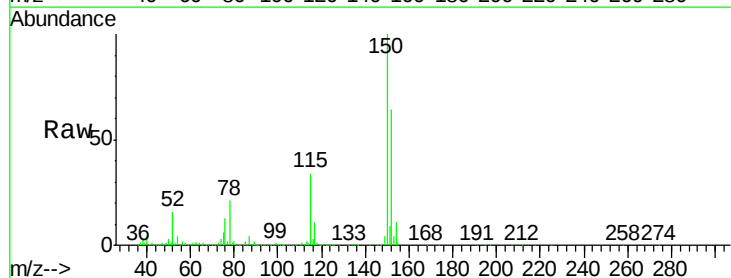


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

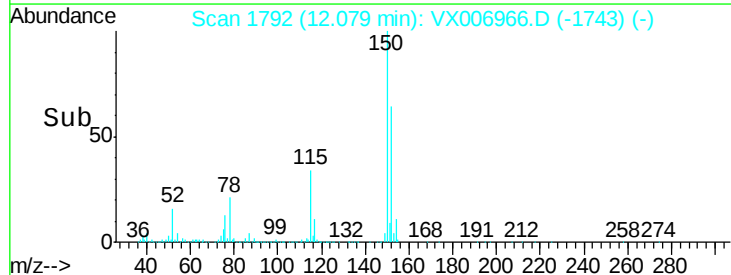
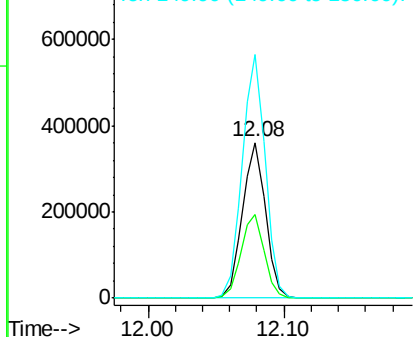


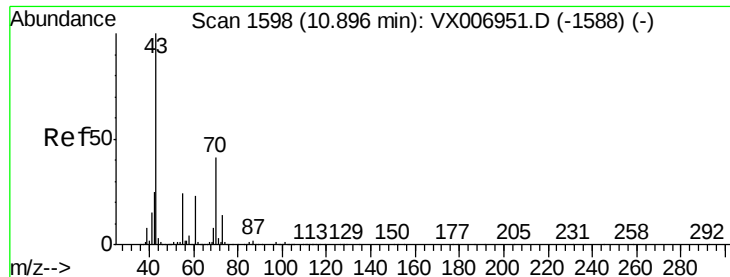
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006966.D
Acq: 09 Jan 2019 15:40

Tgt Ion:152 Resp: 428563
Ion Ratio Lower Upper
152 100
115 54.2 39.1 117.2
150 155.7 0.0 344.8



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





#74

N-amvl acetate

Concen: 1.893 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

SP-1-6

Tot Ion: 43 Resp: 23028

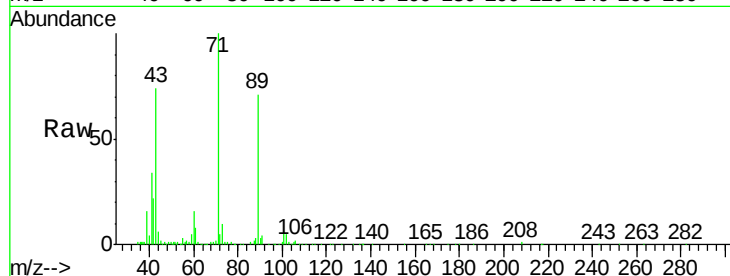
Ion Ratio Lower Upper

43 100

70 3.6 35.8 53.8#

55 5.0 19.4 29.0#

61 13.2 20.1 30.1#

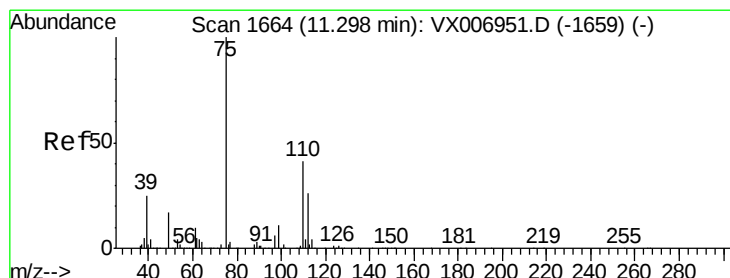
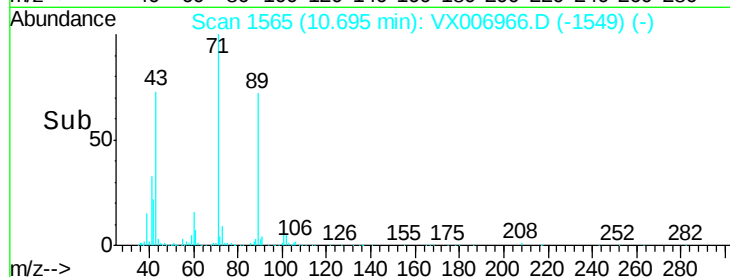
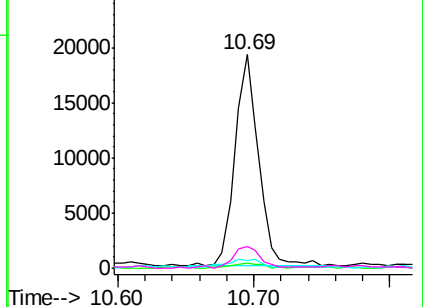


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.784 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006966.D

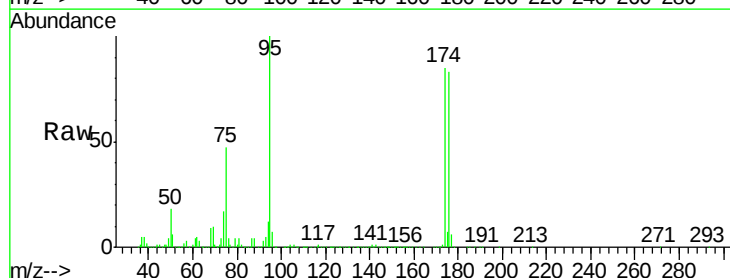
Acq: 09 Jan 2019 15:40

Tgt Ion: 75 Resp: 189185

Ion Ratio Lower Upper

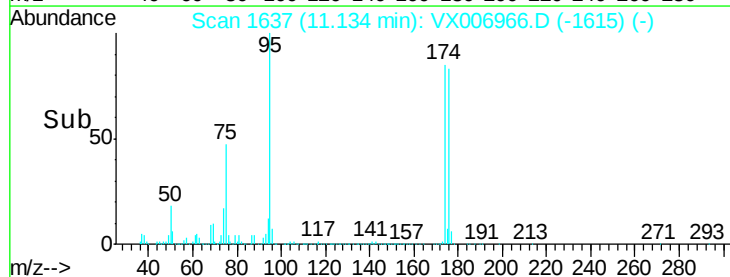
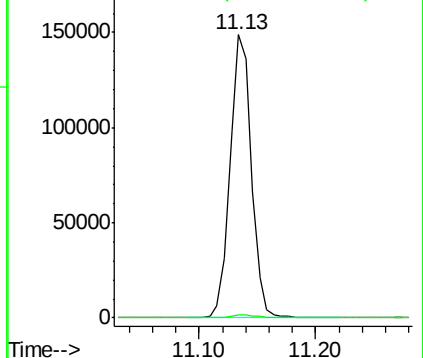
75 100

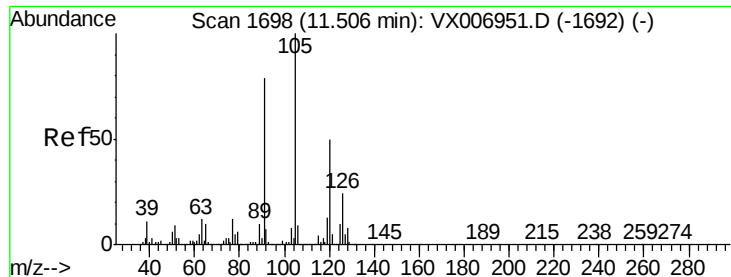
77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.238 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

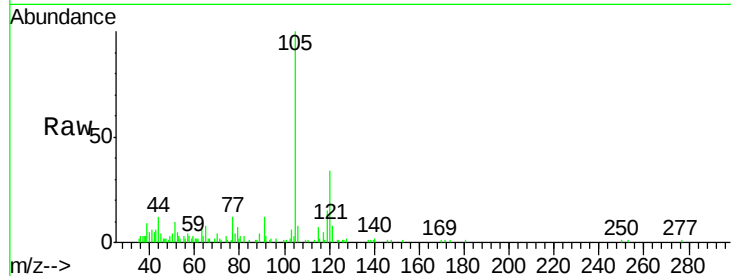
SP-1-6

Tot Ion:105 Resp: 5999

Ion Ratio Lower Upper

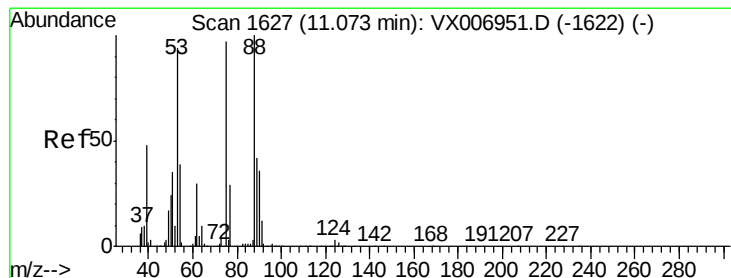
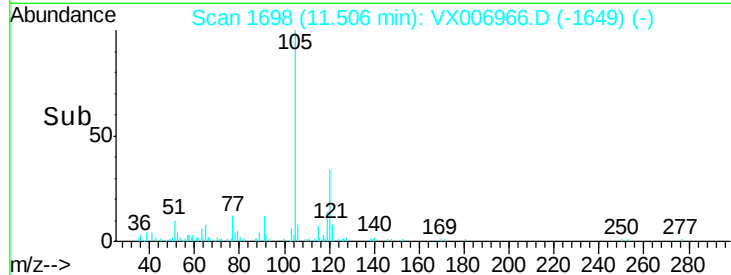
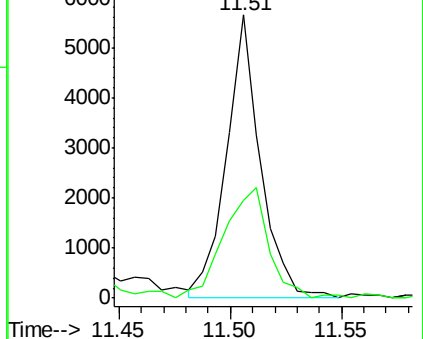
105 100

120 51.3 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 64.550 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

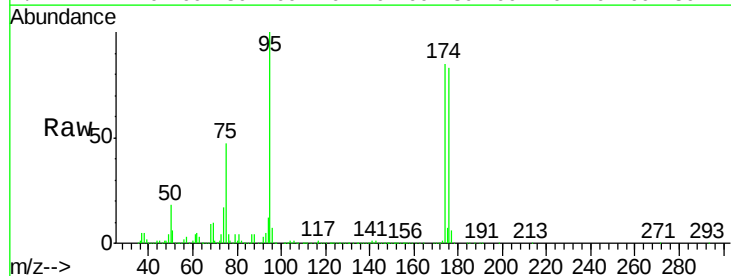
Tgt Ion: 75 Resp: 189185

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

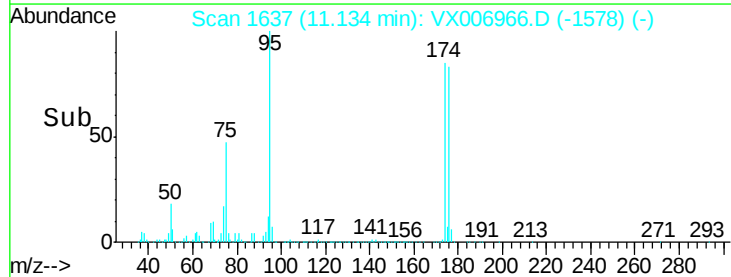
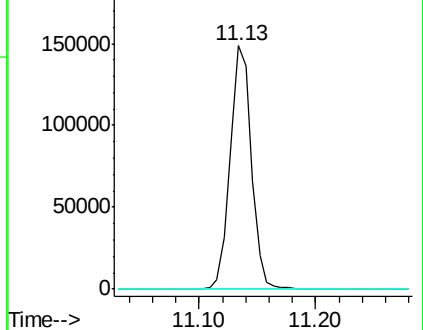
89 0.0 38.0 57.0#

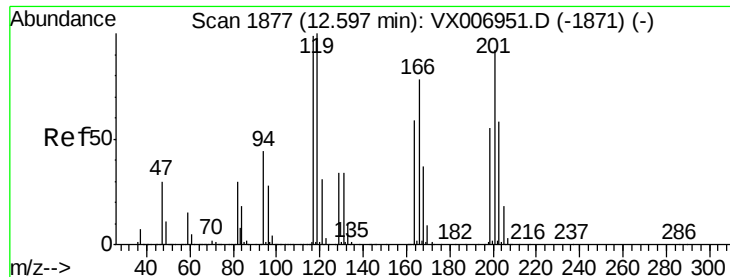


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.918 ug/l

RT: 12.41 min Scan# 1846

Delta R.T. -0.19 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

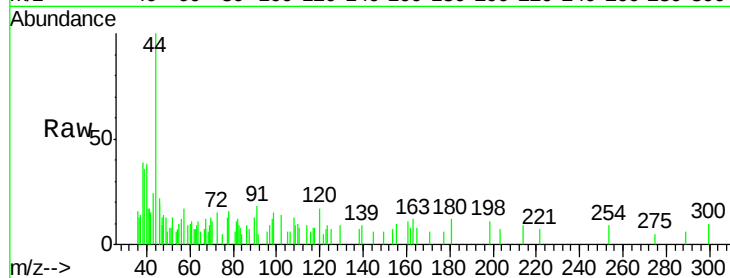
SP-1-6

Tot Ion:117 Resp: 46

Ion Ratio Lower Upper

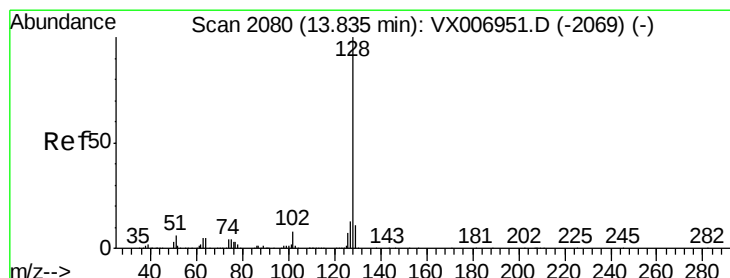
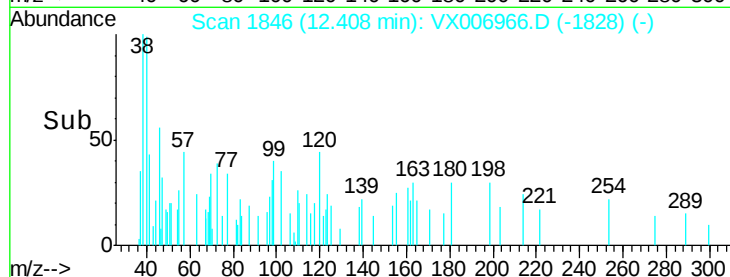
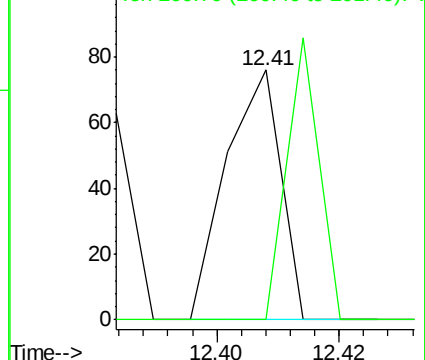
117 100

201 67.4 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.523 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006966.D

Acq: 09 Jan 2019 15:40

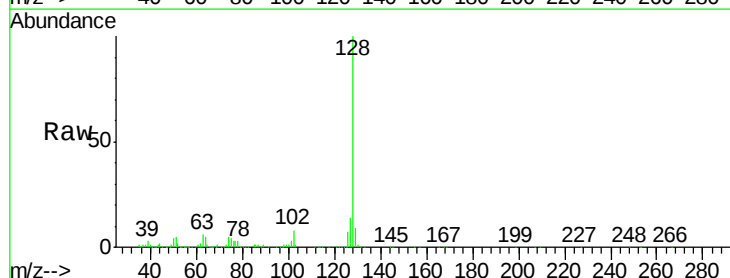
Tgt Ion:128 Resp: 47011

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

129 11.4 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

