

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092019\
 Data File : VX012567.D
 Acq On : 20 Sep 2019 19:06
 Operator : JC/SP
 Sample : K4883-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW2-R2-2

Quant Time: Sep 21 01:37:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	174630	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	276257	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	223013	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	82652	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	116192	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
35) Dibromofluoromethane	5.49	113	81677	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	317201	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.14	95	107117	41.68	ug/l	0.00
Spiked Amount			Recovery	=	83.36%	

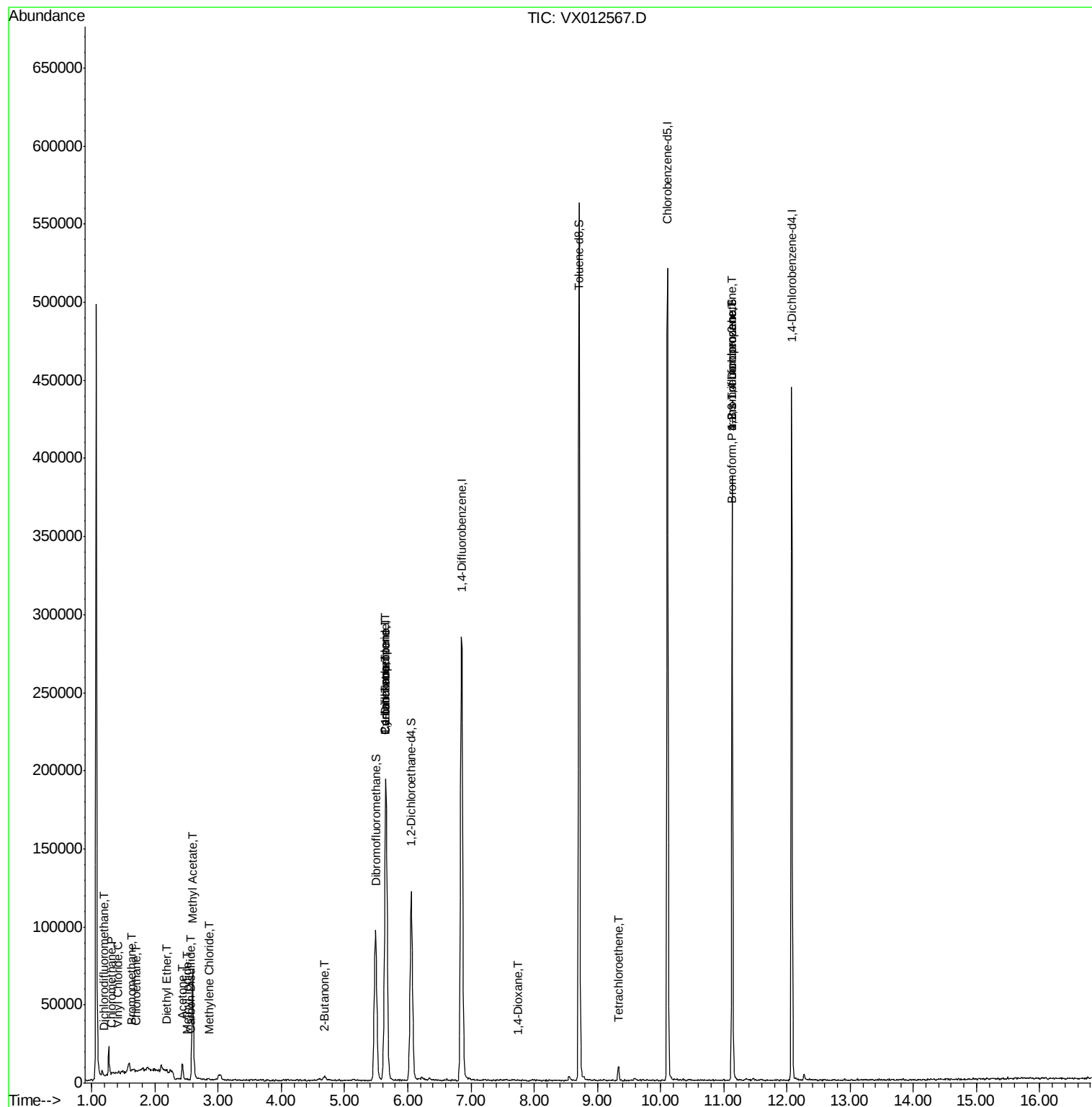
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	83	0.462	ug/l #	21
3) Chloromethane	1.31	50	735	0.766	ug/l #	86
4) Vinyl Chloride	1.41	62	252	0.243	ug/l #	69
5) Bromomethane	1.64	94	258	0.633	ug/l	93
6) Chloroethane	1.70	64	324	0.399	ug/l #	84
8) Diethyl Ether	2.18	74	180	0.210	ug/l	84
10) Methyl Iodide	2.50	142	94	4.515	ug/l #	35
11) Tert butyl alcohol	3.03	59	3401	Below Cal	#	94
13) Acrolein	2.27	56	180	Below Cal	#	77
16) Acetone	2.44	43	11335	2.015	ug/l	94
17) Carbon Disulfide	2.56	76	104	1.871	ug/l #	75
18) Methyl Acetate	2.59	43	19527	7.487	ug/l #	54
20) Methylene Chloride	2.86	84	354	0.234	ug/l #	50
25) 2-Butanone	4.69	43	547	0.315	ug/l	98
31) Cyclohexane	5.65	56	4589	2.655	ug/l #	7
36) 1,1-Dichloropropene	5.65	75	14651	8.726	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19258	9.222	ug/l #	16
49) 1,4-Dioxane	7.75	88	24	0.452	ug/l #	1
64) Tetrachloroethene	9.33	164	1666	1.630	ug/l #	81
71) Bromoform	11.12	173	141	2.971	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	55072	29.007	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	55072	77.800	ug/l #	8

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

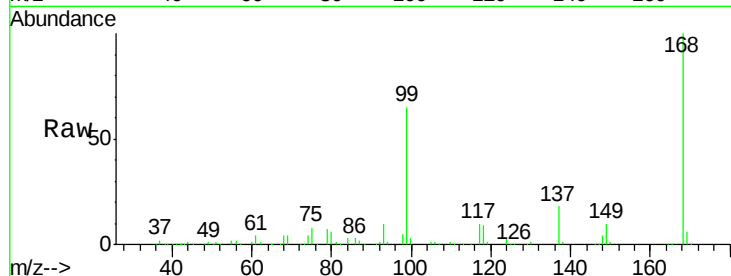
MW2-R2-2

Tot Ion:168 Resp: 174630

Ion Ratio Lower Upper

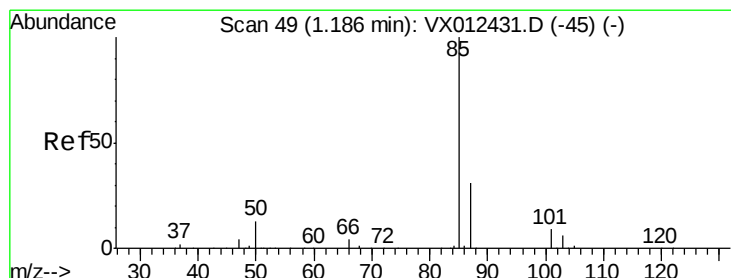
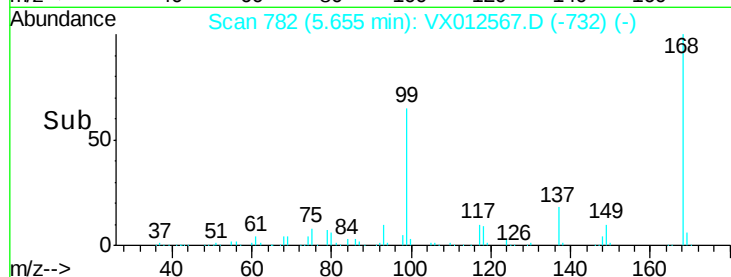
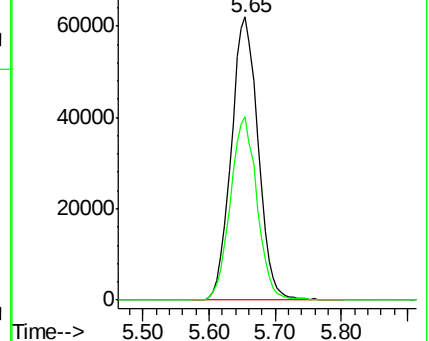
168 100

99 64.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.462 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX012567.D

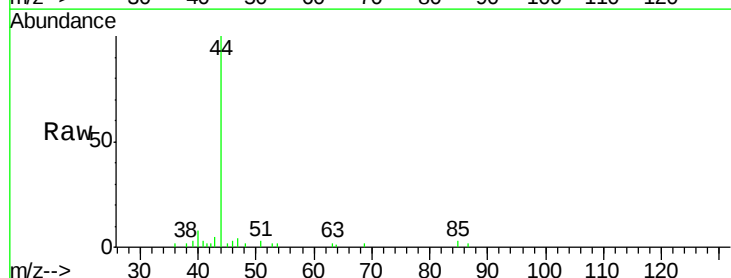
Acq: 20 Sep 2019 19:06

Tgt Ion: 85 Resp: 83

Ion Ratio Lower Upper

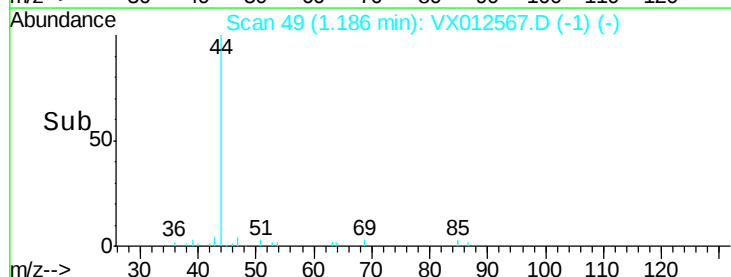
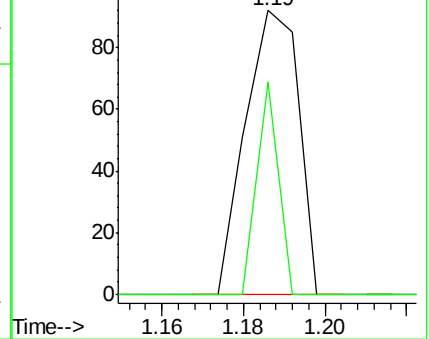
85 100

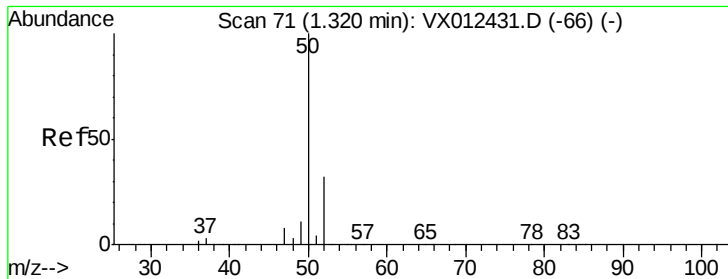
87 75.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.766 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.01 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

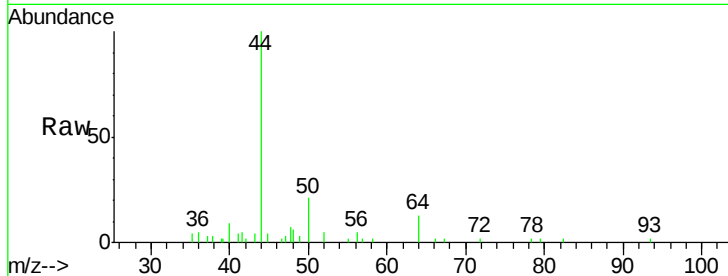
MW2-R2-2

Tot Ion: 50 Resp: 735

Ion Ratio Lower Upper

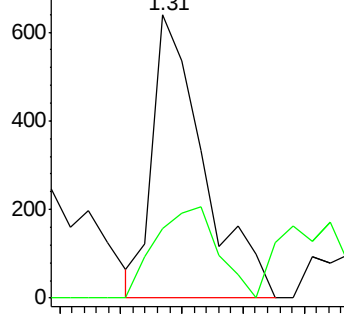
50 100

52 24.5 25.7 38.5#

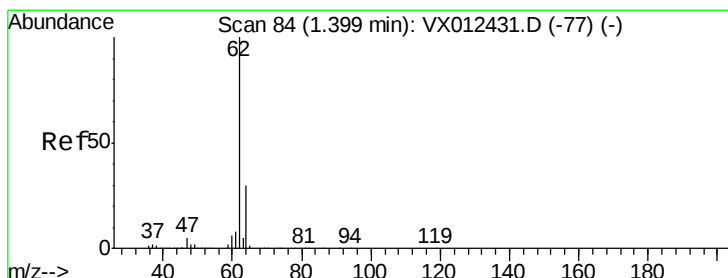
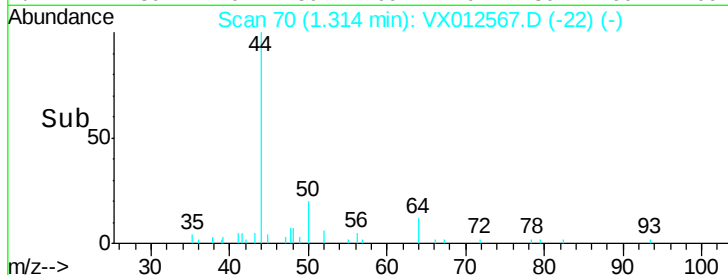


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#4

Vinyl Chloride

Concen: 0.243 ug/l

RT: 1.41 min Scan# 85

Delta R.T. 0.01 min

Lab File: VX012567.D

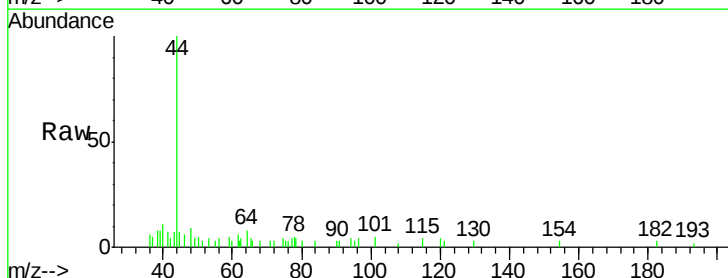
Acq: 20 Sep 2019 19:06

Tgt Ion: 62 Resp: 252

Ion Ratio Lower Upper

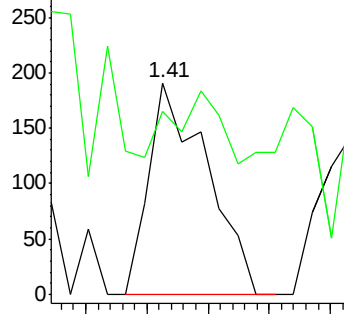
62 100

64 13.3 24.2 36.2#

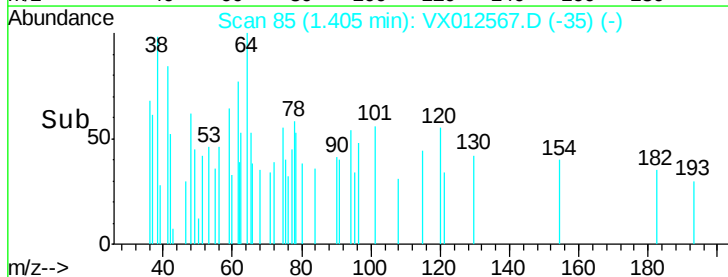


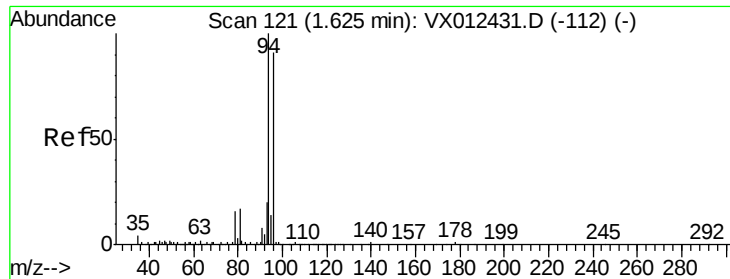
Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->





#5

Bromomethane

Concen: 0.633 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampled :

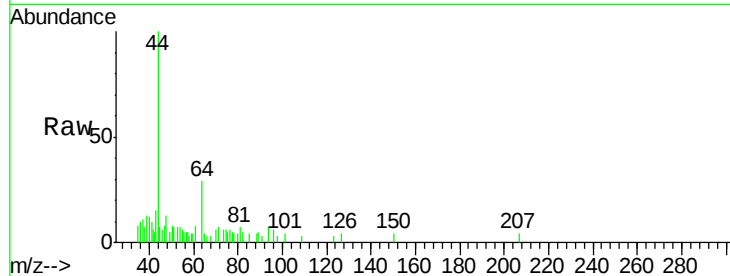
MW2-R2-2

Tot Ion: 94 Resp: 258

Ion Ratio Lower Upper

94 100

96 84.5 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1.65

1.66

1.67

1.68

1.69

1.70

1.71

1.72

1.73

1.74

1.75

1.76

1.77

1.78

1.79

1.80

1.81

1.82

1.83

1.84

1.85

1.86

1.87

1.88

1.89

1.90

1.91

1.92

1.93

1.94

1.95

1.96

1.97

1.98

1.99

2.00

2.01

2.02

2.03

2.04

2.05

2.06

2.07

2.08

2.09

2.10

2.11

2.12

2.13

2.14

2.15

2.16

2.17

2.18

2.19

2.20

2.21

2.22

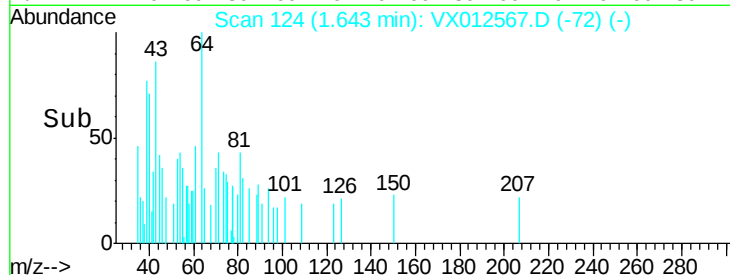
2.23

2.24

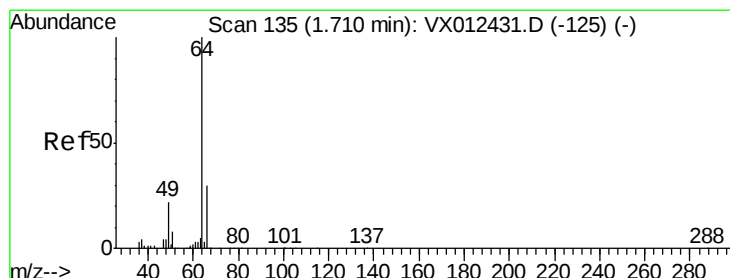
2.25

2.26

2.27



Time-->



#6

Chloroethane

Concen: 0.399 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012567.D

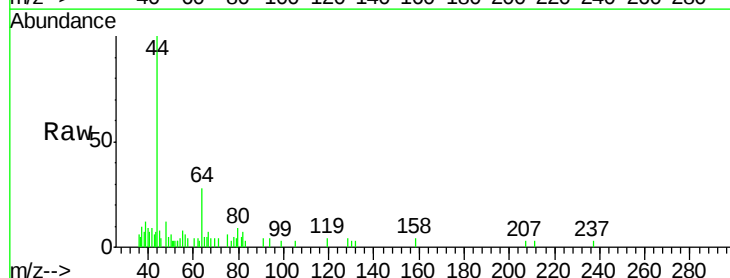
Acq: 20 Sep 2019 19:06

Tgt Ion: 64 Resp: 324

Ion Ratio Lower Upper

64 100

66 38.7 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

1.71

1.72

1.73

1.74

1.75

1.76

1.77

1.78

1.79

1.80

1.81

1.82

1.83

1.84

1.85

1.86

1.87

1.88

1.89

1.90

1.91

1.92

1.93

1.94

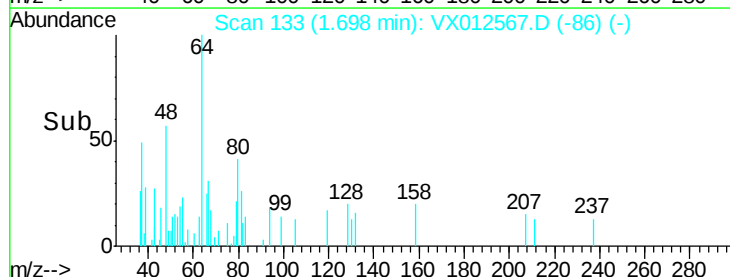
1.95

1.96

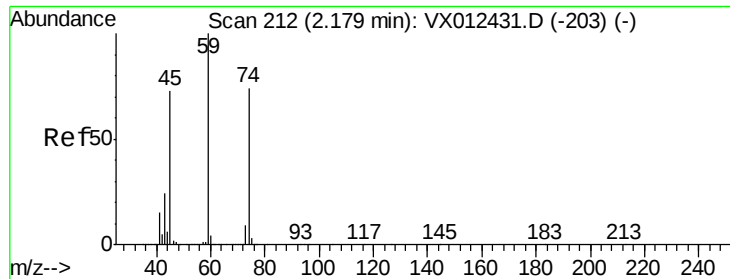
1.97

1.98

1.99



Time-->



#8

Diethyl Ether

Concen: 0.210 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

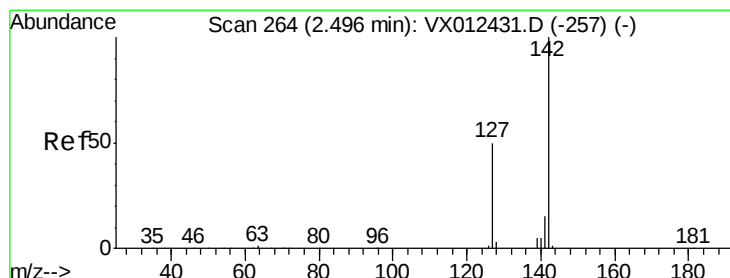
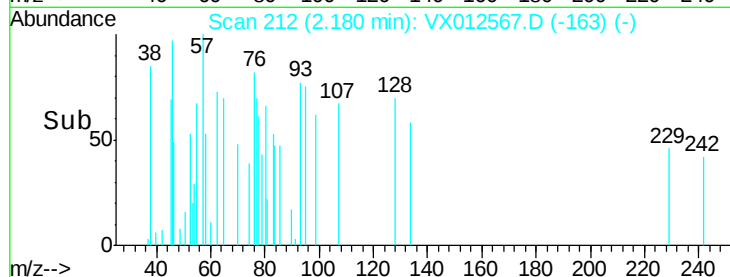
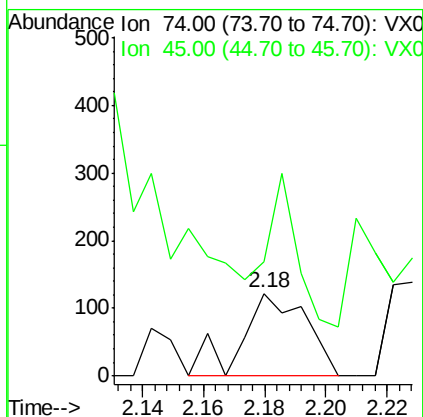
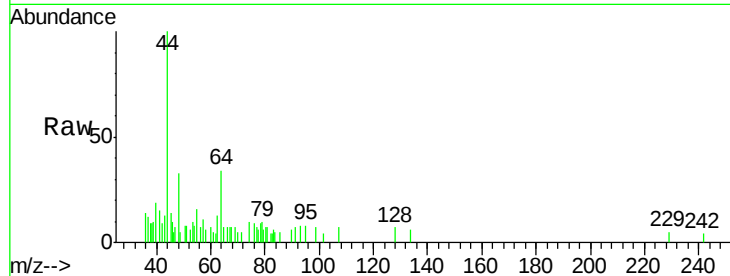
MW2-R2-2

Tot Ion: 74 Resp: 180

Ion Ratio Lower Upper

74 100

45 83.9 49.9 149.7



#10

Methyl Iodide

Concen: 4.515 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

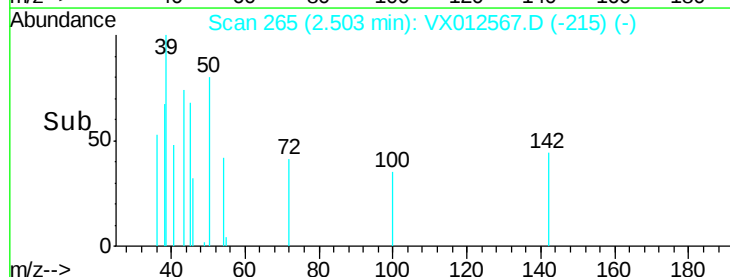
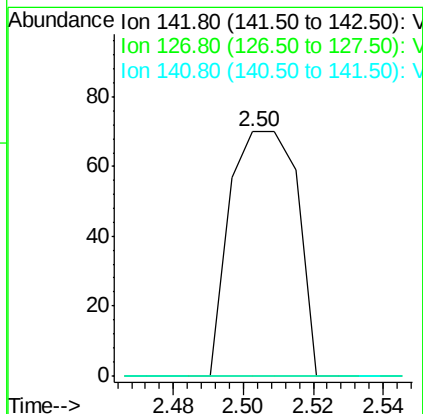
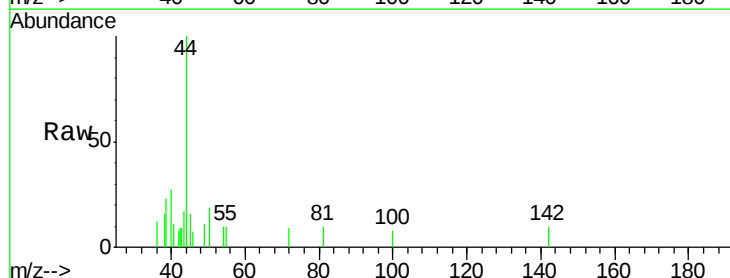
Tgt Ion: 142 Resp: 94

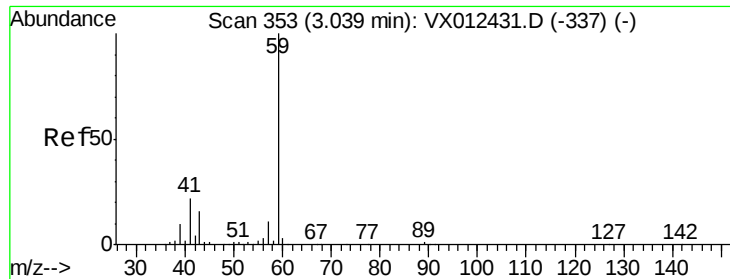
Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

141 0.0 12.1 18.1#

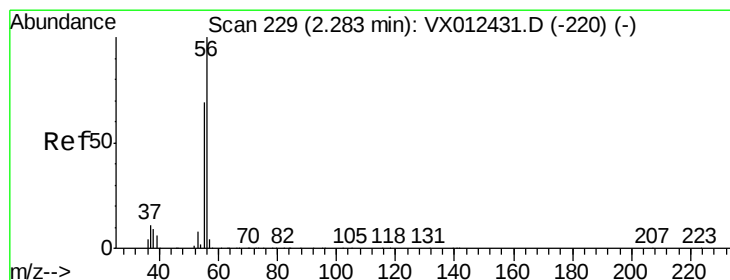
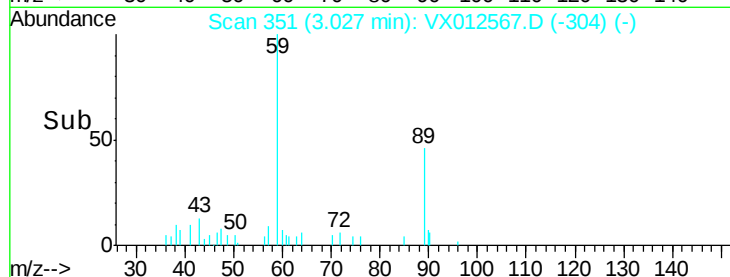
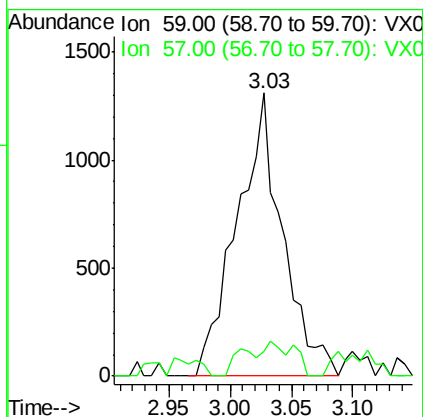
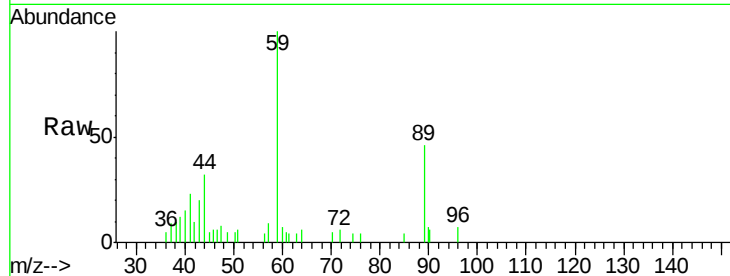




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012567.D
Acq: 20 Sep 2019 19:06

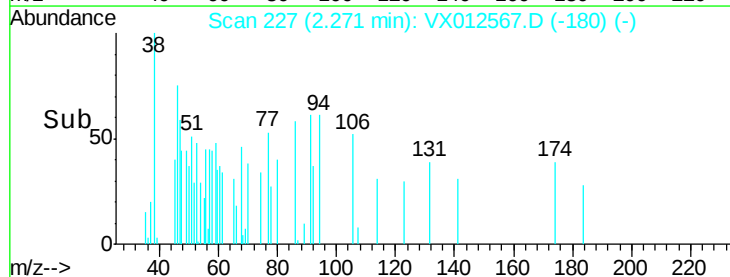
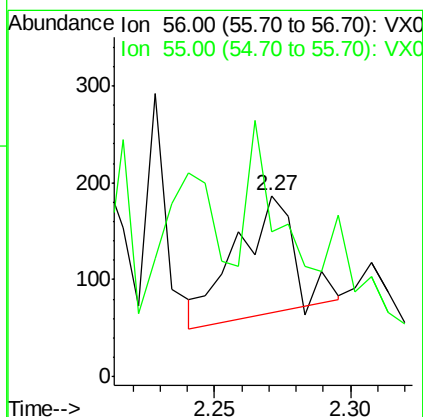
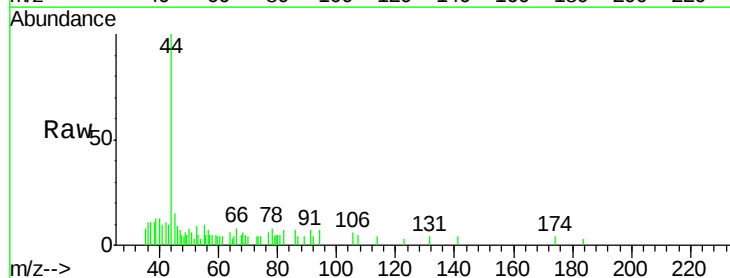
Instrument :
MSVOA_X
ClientSampled :
MW2-R2-2

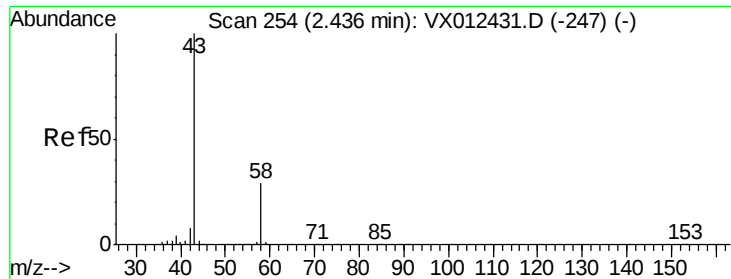
Tot Ion: 59 Resp: 3401
Ion Ratio Lower Upper
59 100
57 8.2 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX012567.D
Acq: 20 Sep 2019 19:06

Tgt Ion: 56 Resp: 180
Ion Ratio Lower Upper
56 100
55 50.6 55.8 83.8#





#16

Acetone

Concen: 2.015 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

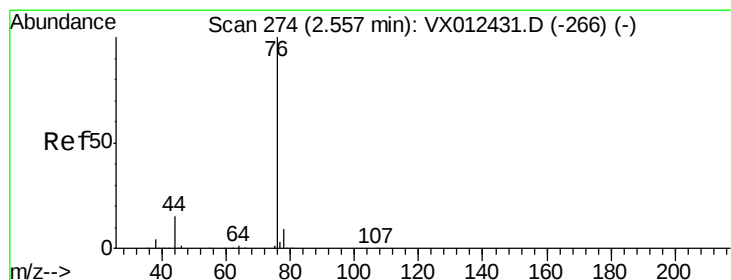
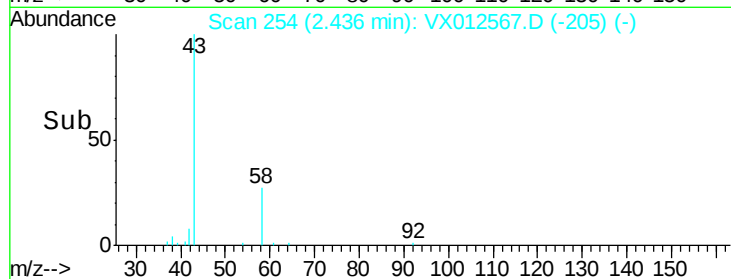
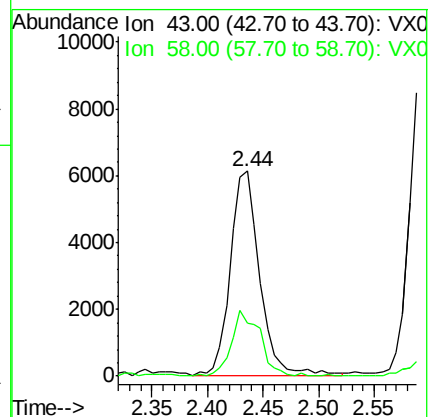
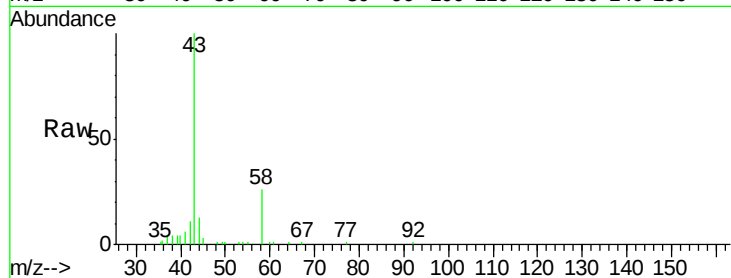
MW2-R2-2

Tot Ion: 43 Resp: 11335

Ion Ratio Lower Upper

43 100

58 25.6 23.3 34.9



#17

Carbon Disulfide

Concen: 1.871 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012567.D

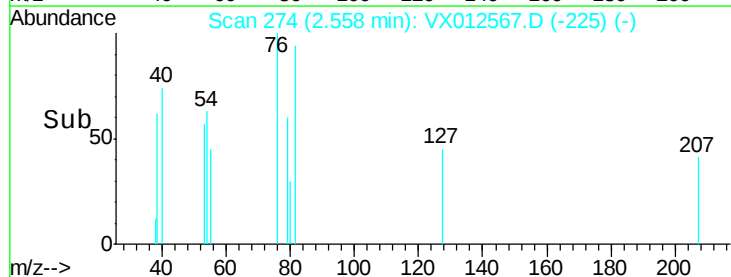
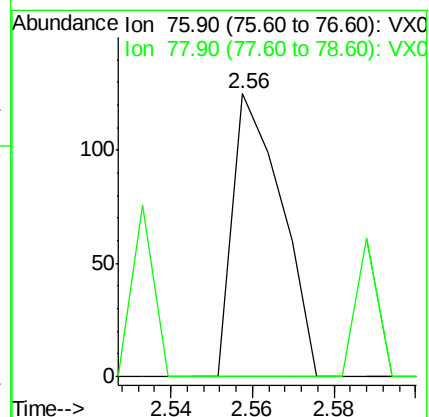
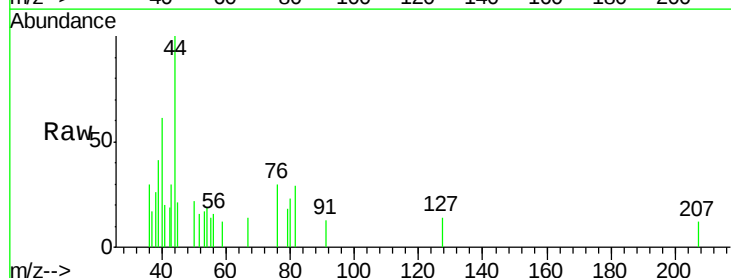
Acq: 20 Sep 2019 19:06

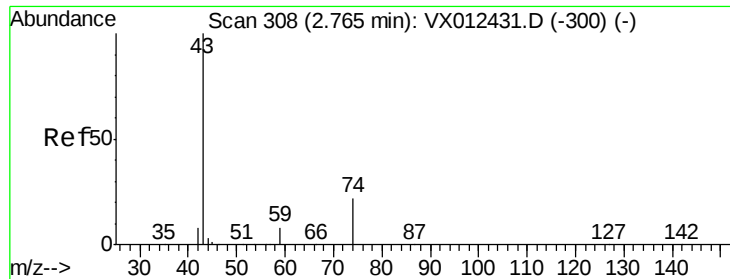
Tgt Ion: 76 Resp: 104

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

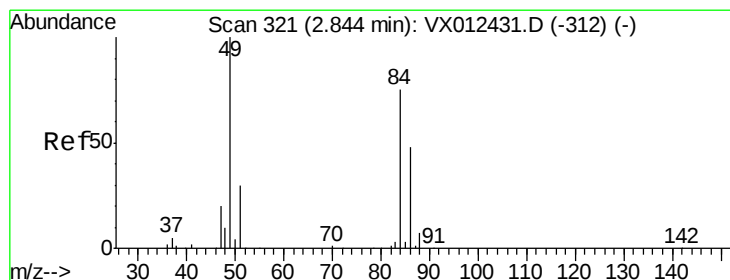
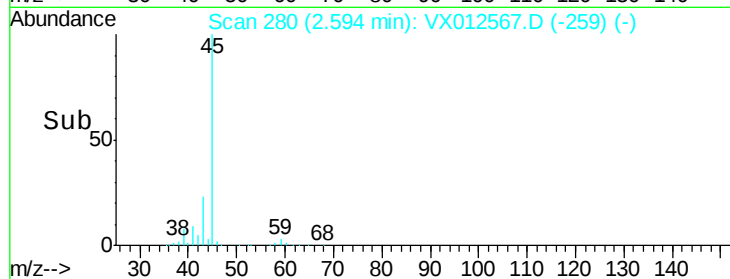
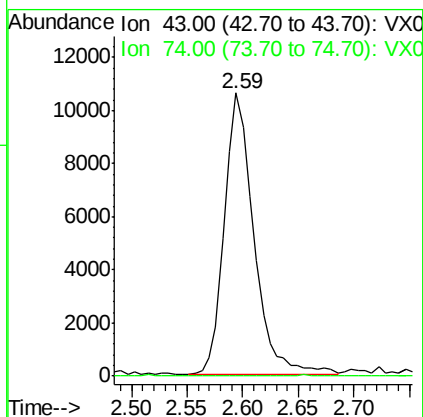
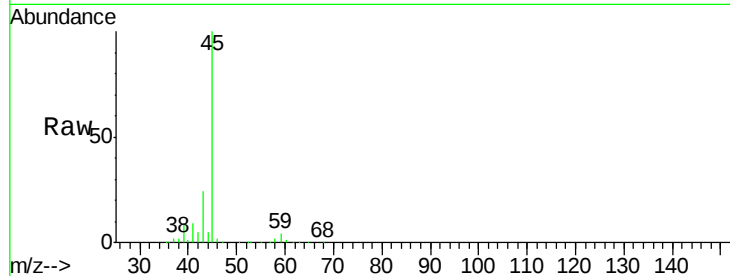




#18
Methvl Acetate
Concen: 7.487 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012567.D
Acq: 20 Sep 2019 19:06

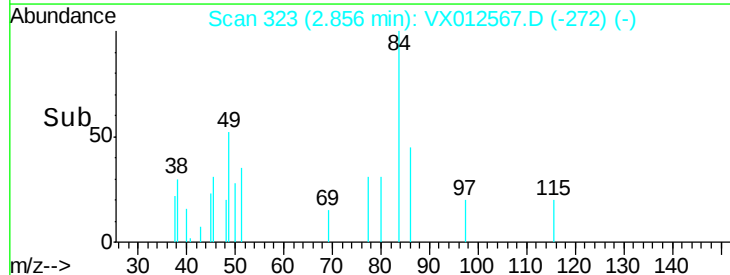
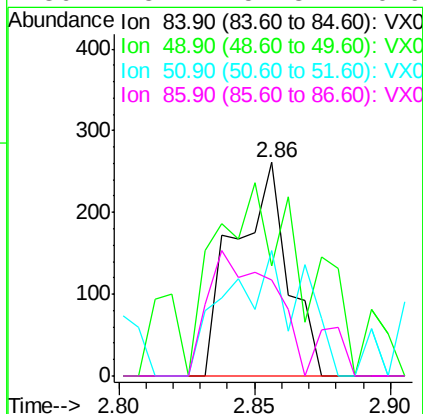
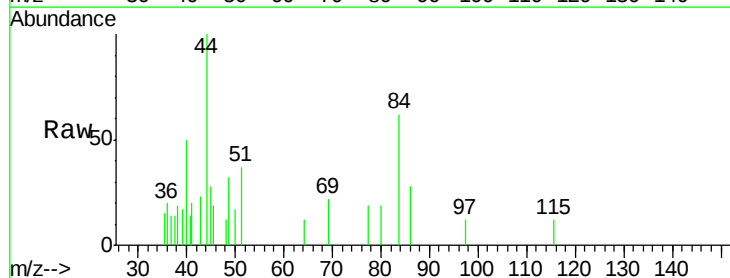
Instrument :
MSVOA_X
ClientSampleId :
MW2-R2-2

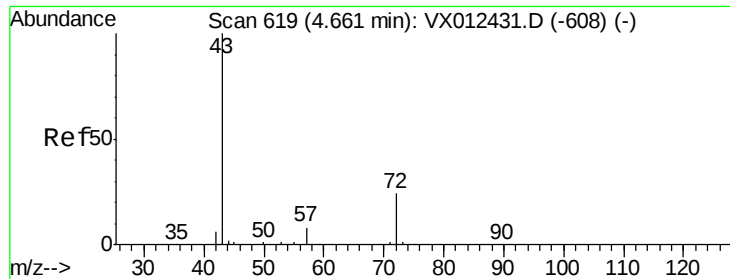
Tot Ion: 43 Resp: 19527
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 0.234 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX012567.D
Acq: 20 Sep 2019 19:06

Tgt Ion: 84 Resp: 354
Ion Ratio Lower Upper
84 100
49 51.7 106.8 160.2#
51 58.6 32.3 48.5#
86 45.2 51.3 76.9#





#25

2-Butanone

Concen: 0.315 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

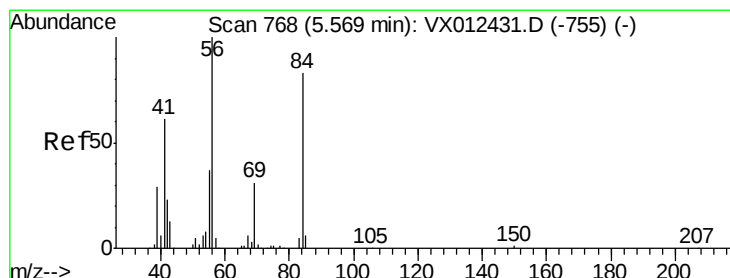
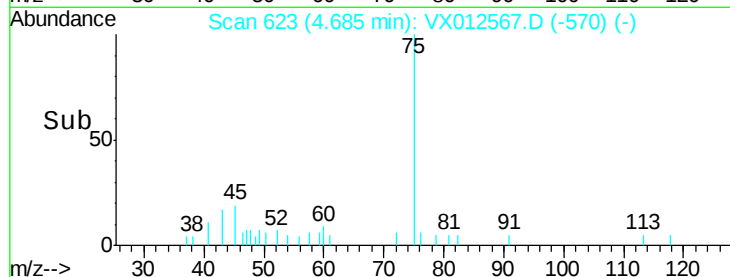
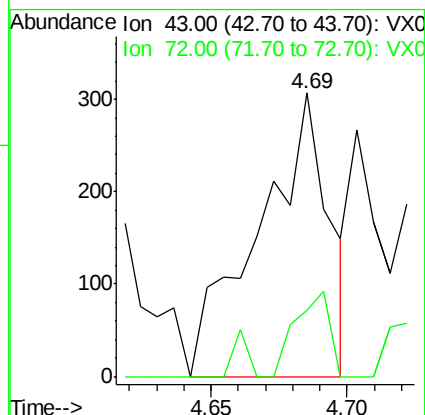
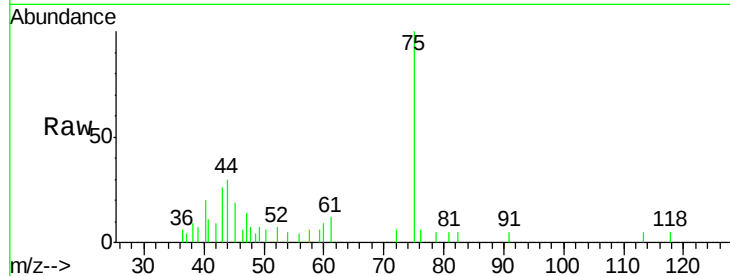
MW2-R2-2

Tot Ion: 43 Resp: 547

Ion Ratio Lower Upper

43 100

72 23.1 19.2 28.8



#31

Cyclohexane

Concen: 2.655 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

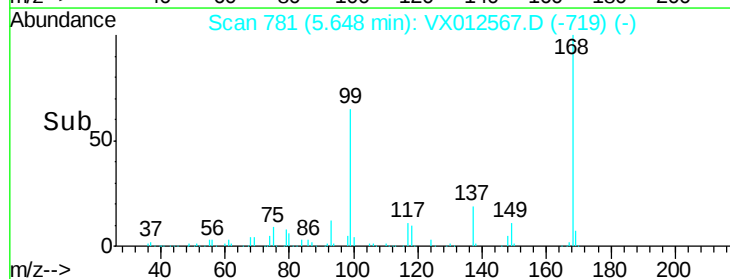
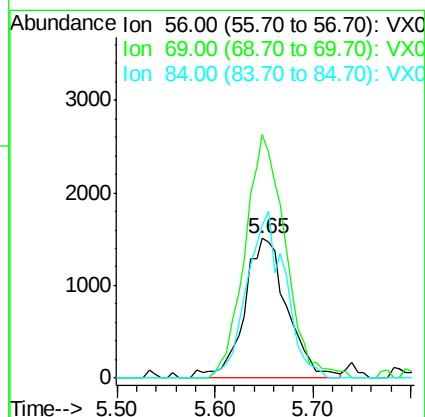
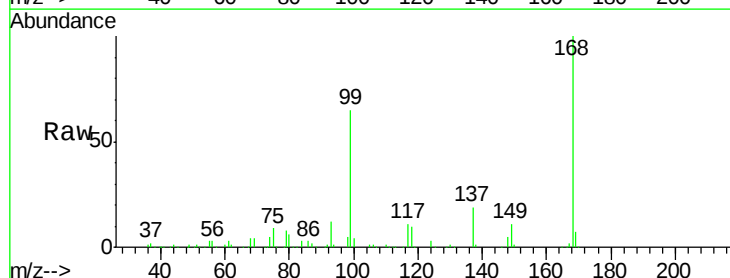
Tgt Ion: 56 Resp: 4589

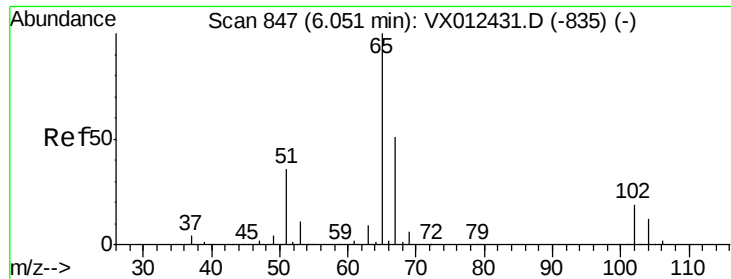
Ion Ratio Lower Upper

56 100

69 174.6 25.0 37.6#

84 109.8 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 46.425 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

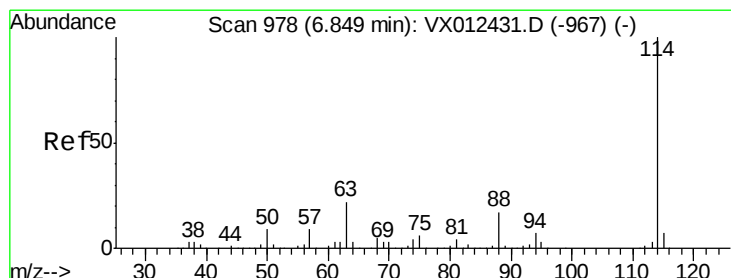
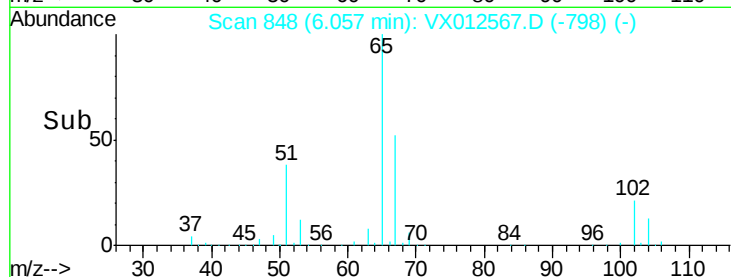
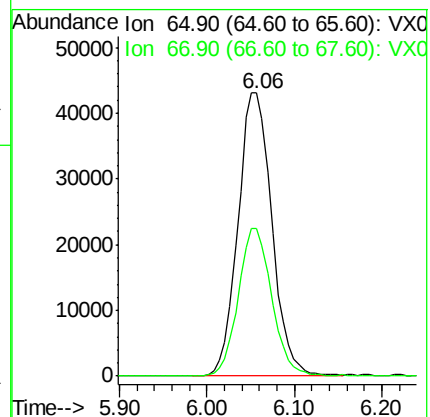
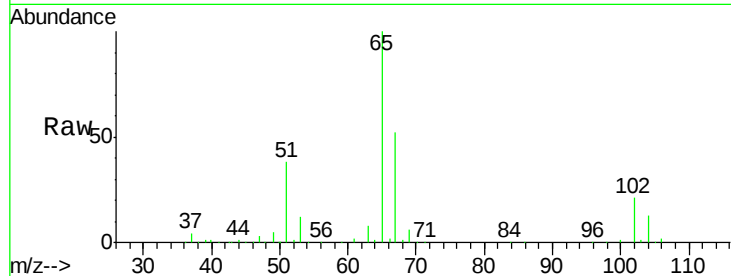
MW2-R2-2

Tot Ion: 65 Resp: 116192

Ion Ratio Lower Upper

65 100

67 51.6 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

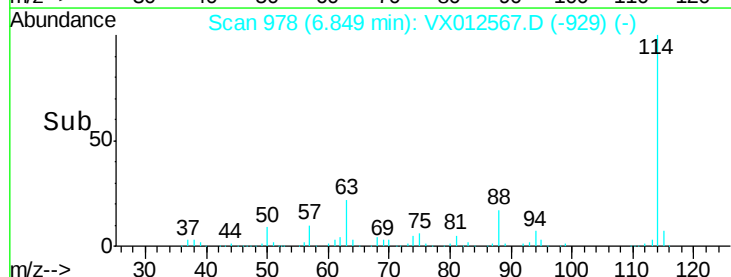
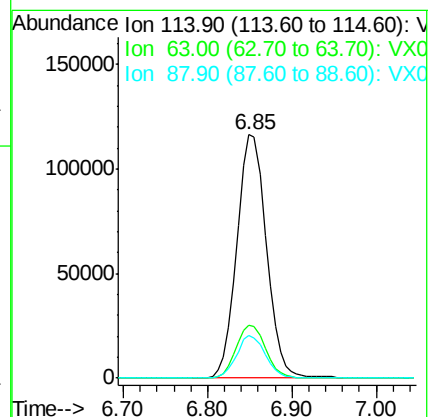
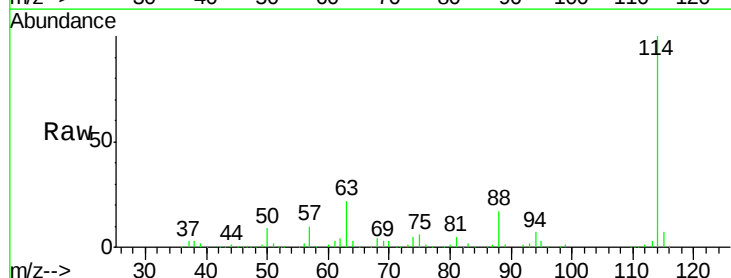
Tgt Ion: 114 Resp: 276257

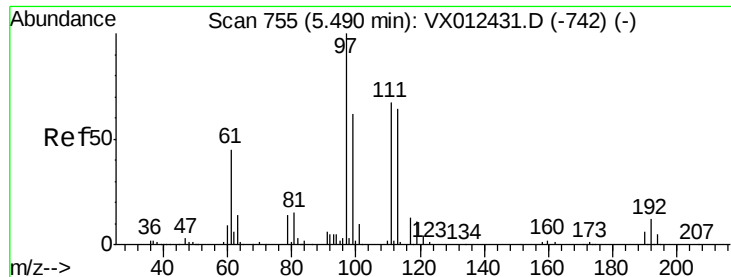
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 17.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.848 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

MW2-R2-2

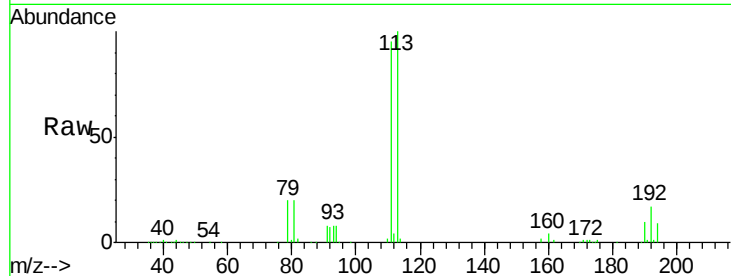
Tot Ion:113 Resp: 81677

Ion Ratio Lower Upper

113 100

111 101.7 83.4 125.2

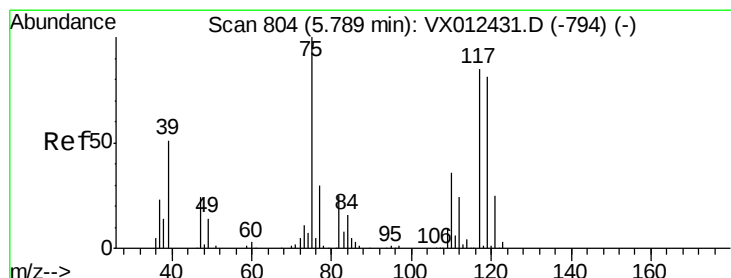
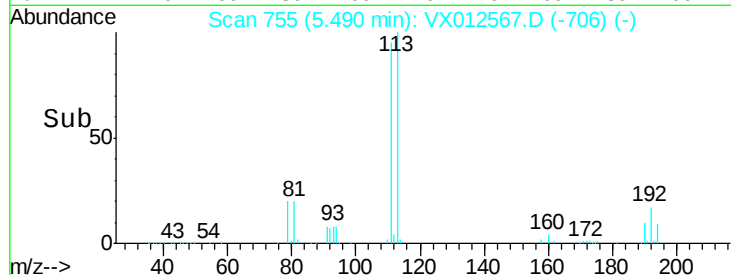
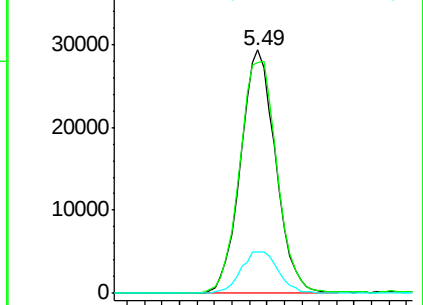
192 18.3 14.4 21.6



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: 8.726 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

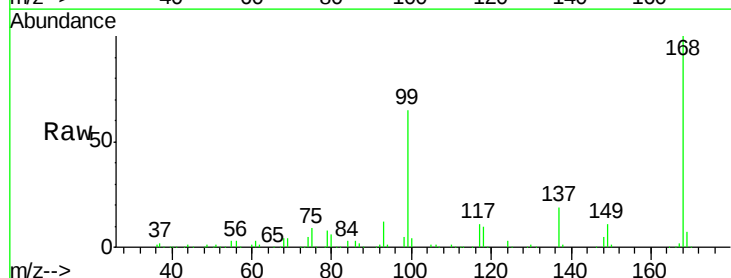
Tgt Ion: 75 Resp: 14651

Ion Ratio Lower Upper

75 100

110 9.8 16.7 50.0#

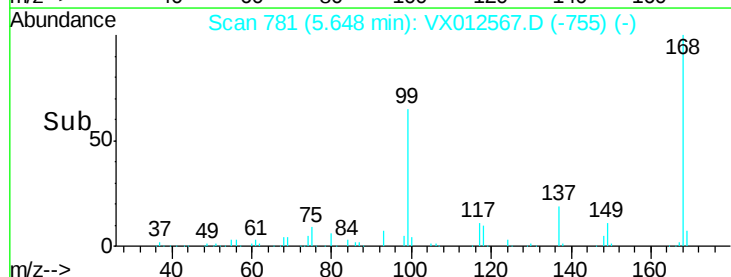
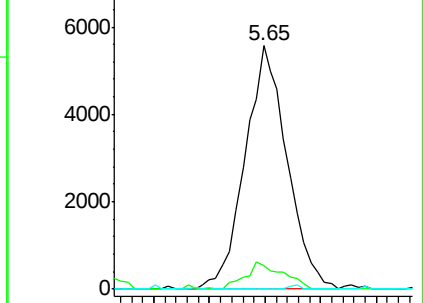
77 0.0 24.2 36.2#

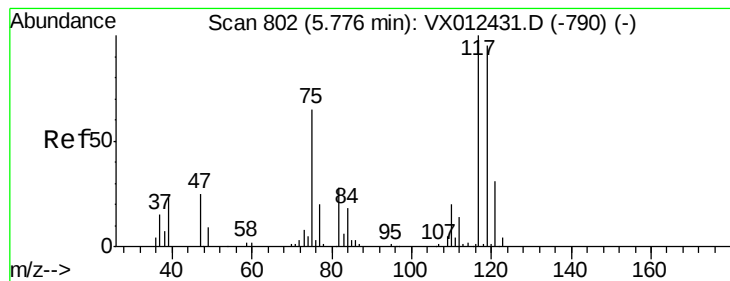


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 9.222 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

MW2-R2-2

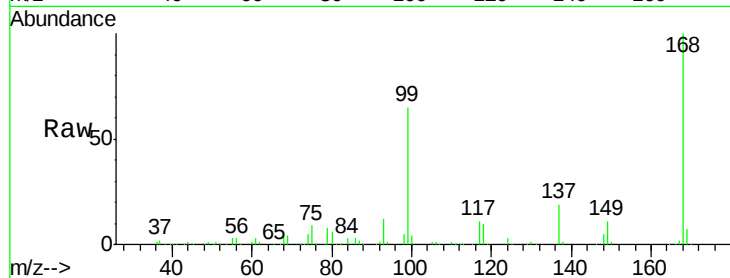
Tot Ion:117 Resp: 19258

Ion Ratio Lower Upper

117 100

119 4.4 75.7 113.5#

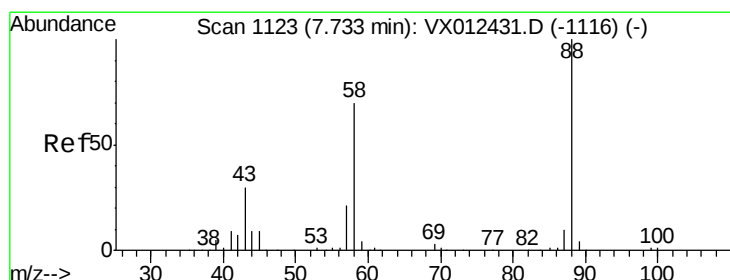
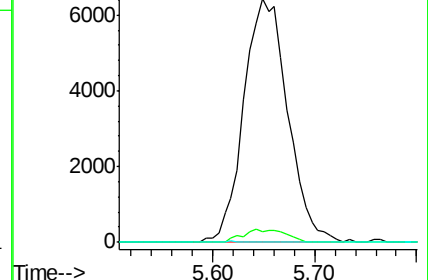
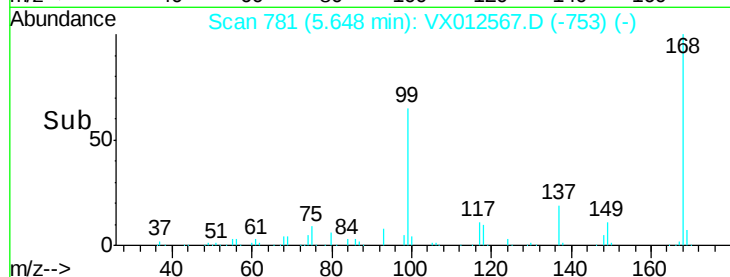
121 0.0 24.2 36.4#



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



#49

1,4-Dioxane

Concen: 0.452 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

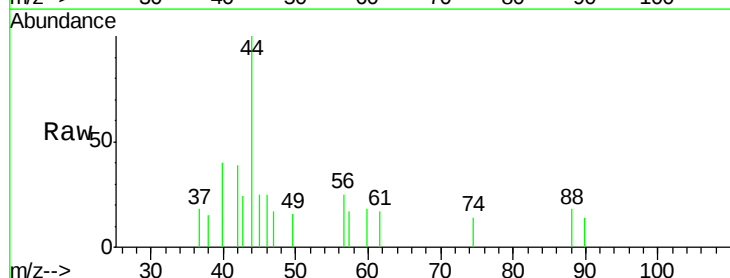
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 1200.0 29.4 44.0#

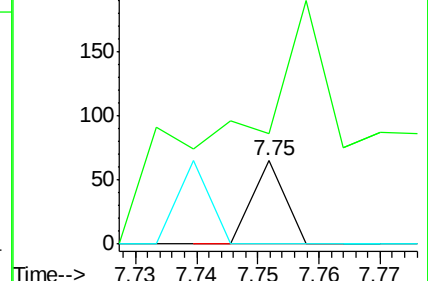
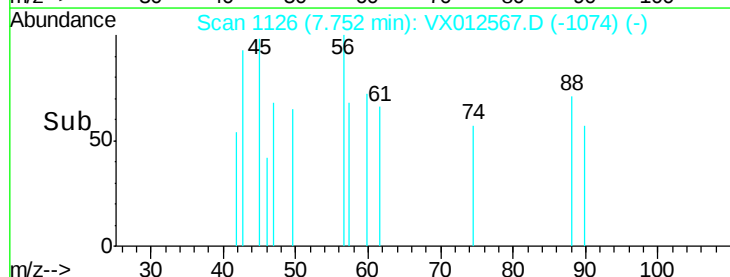
58 100.0 57.5 86.3#

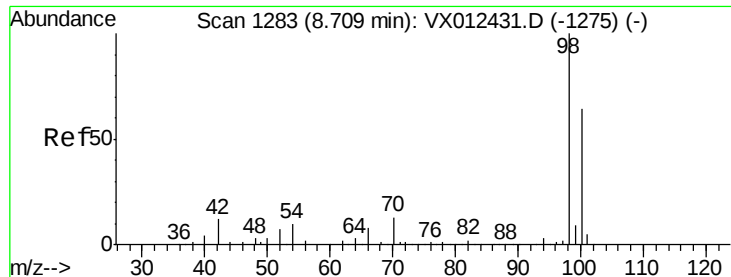


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.252 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

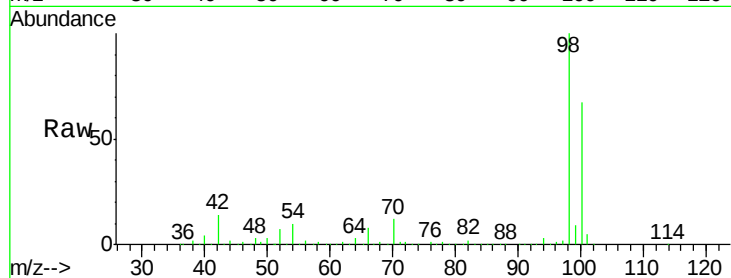
MW2-R2-2

Tot Ion: 98 Resp: 317201

Ion Ratio Lower Upper

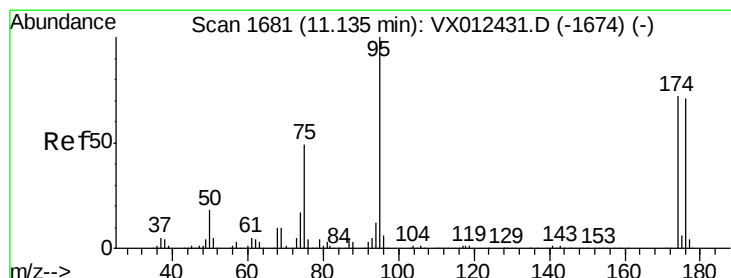
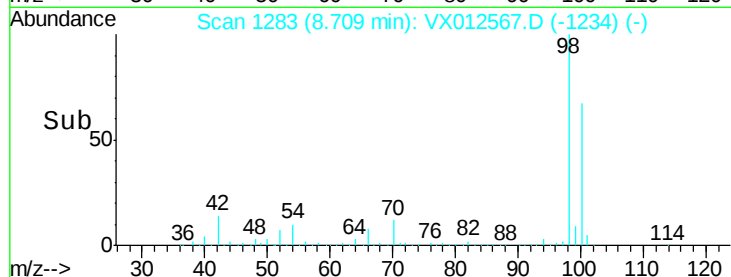
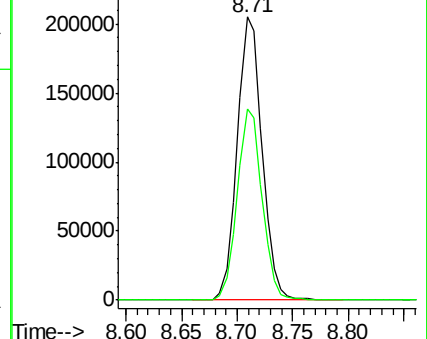
98 100

100 67.2 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 41.684 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

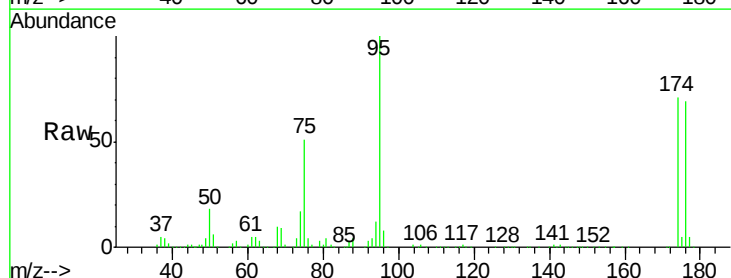
Tgt Ion: 95 Resp: 107117

Ion Ratio Lower Upper

95 100

174 70.3 0.0 140.0

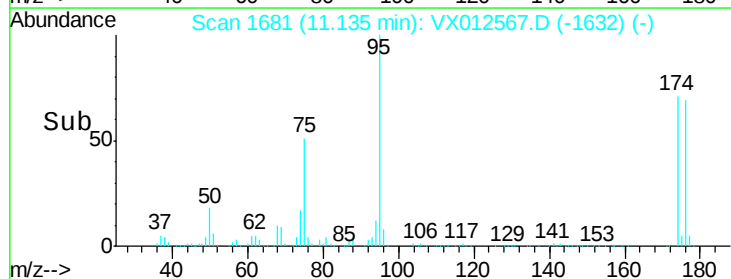
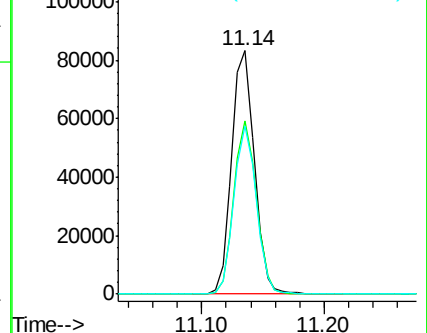
176 68.0 0.0 135.4

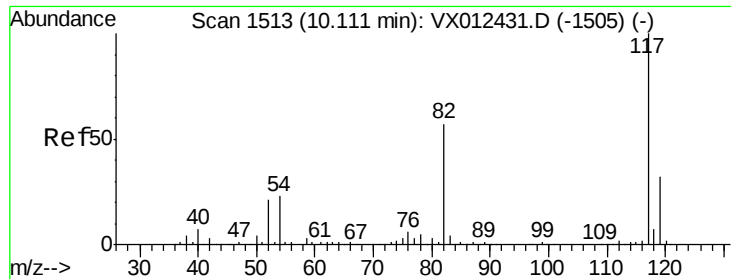


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

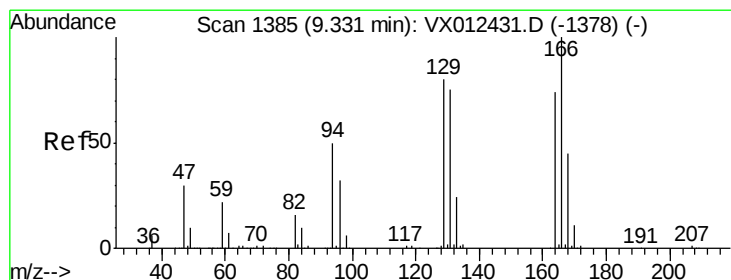
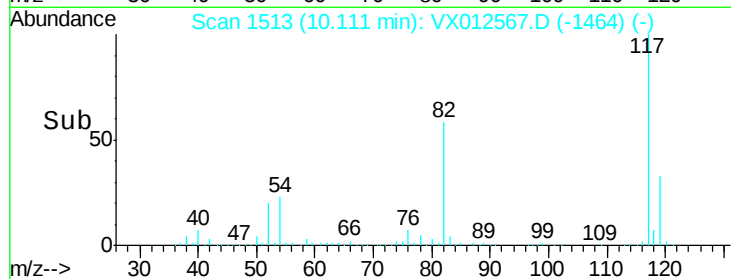
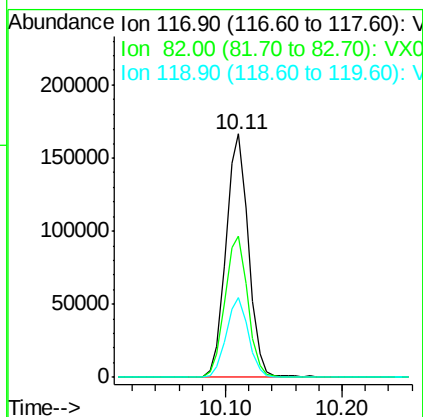
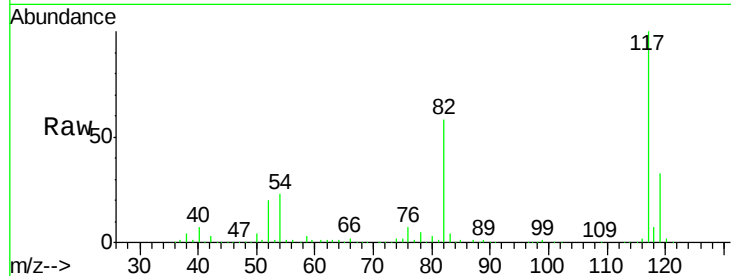




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012567.D
Acq: 20 Sep 2019 19:06

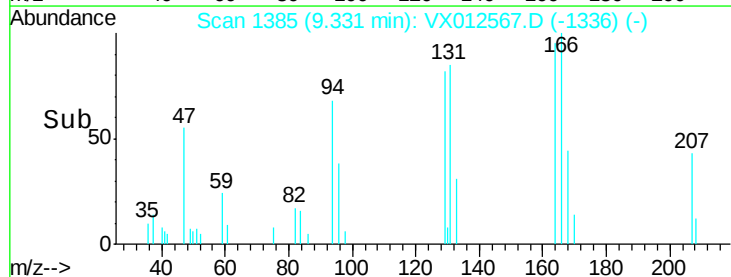
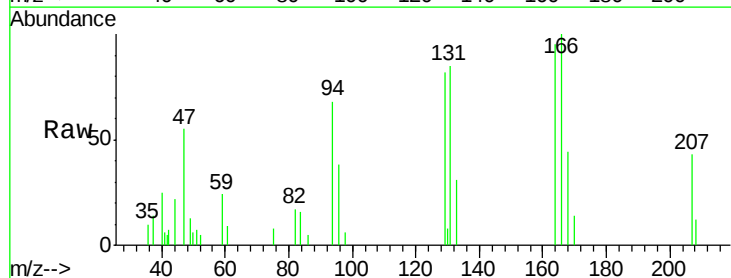
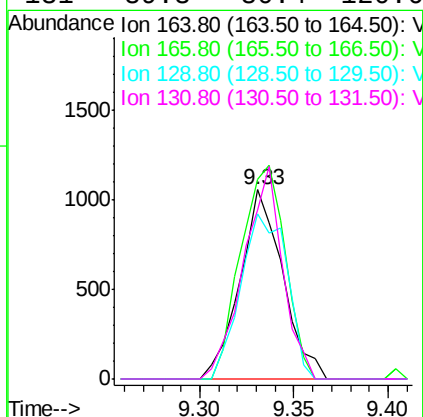
Instrument :
MSVOA_X
ClientSampleId :
MW2-R2-2

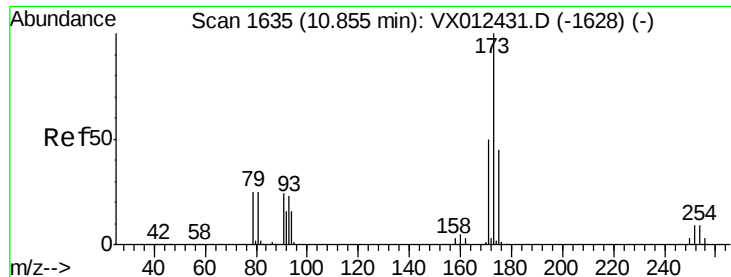
Tot Ion:117 Resp: 223013
Ion Ratio Lower Upper
117 100
82 58.0 45.9 68.9
119 32.7 25.3 37.9



#64
Tetrachloroethene
Concen: 1.630 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX012567.D
Acq: 20 Sep 2019 19:06

Tgt Ion:164 Resp: 1666
Ion Ratio Lower Upper
164 100
166 105.7 107.8 161.6#
129 87.1 86.2 129.2
131 89.3 80.4 120.6





#71

Bromoform

Concen: 2.971 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

MW2-R2-2

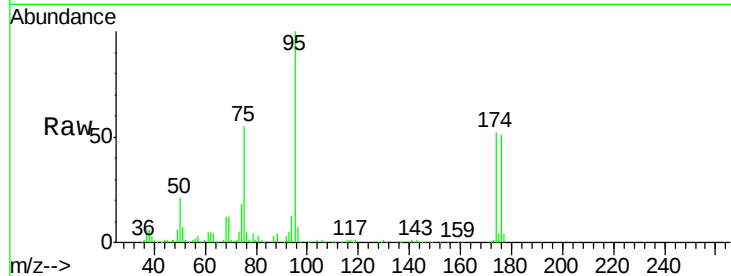
Tot Ion:173 Resp: 141

Ion Ratio Lower Upper

173 100

175 0.0 23.7 71.1#

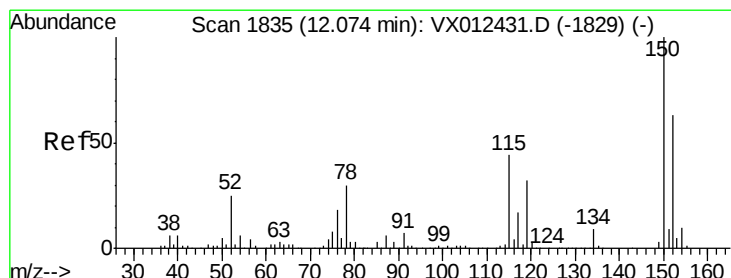
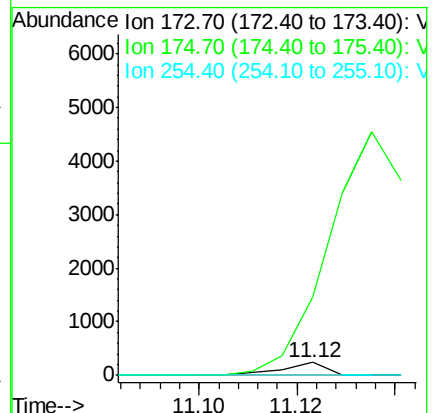
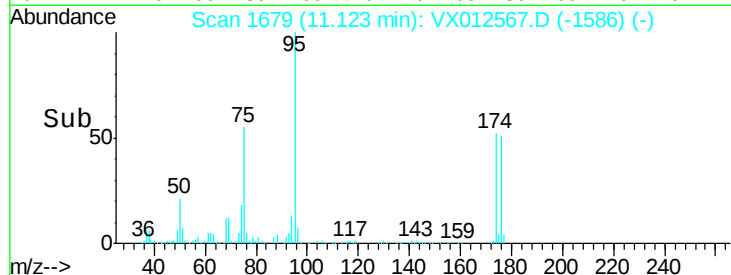
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

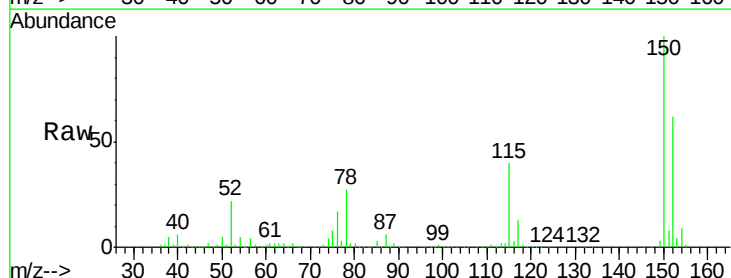
Tgt Ion:152 Resp: 82652

Ion Ratio Lower Upper

152 100

115 64.5 44.1 132.3

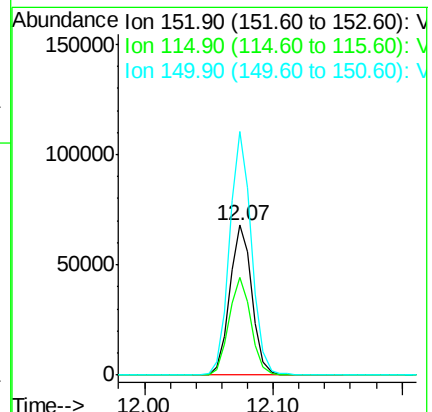
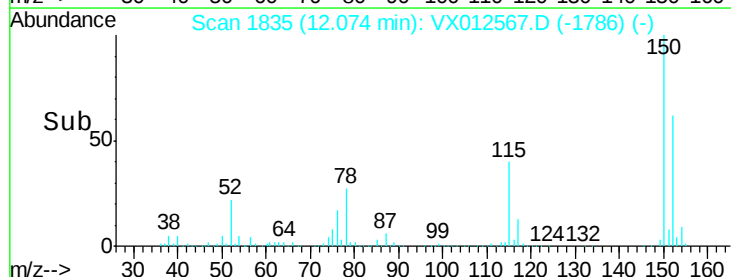
150 160.0 0.0 343.8

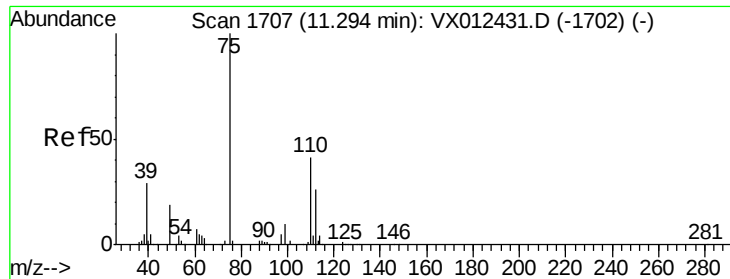


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.007 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

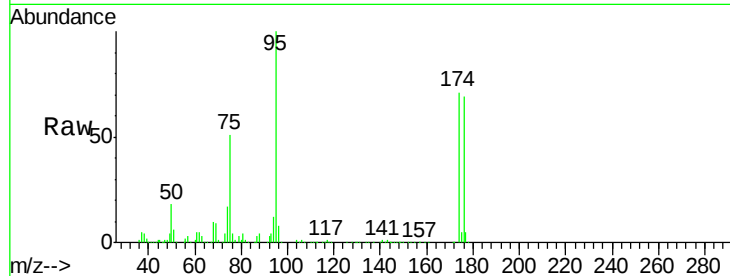
MW2-R2-2

Tot Ion: 75 Resp: 55072

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

40000

30000

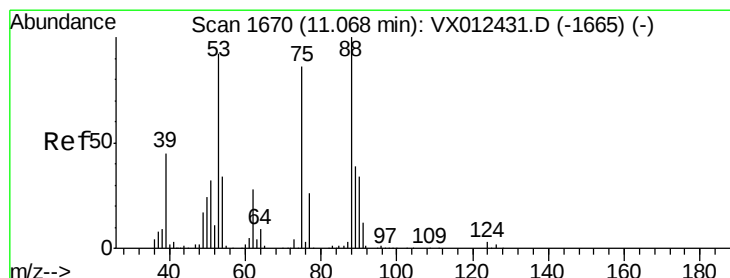
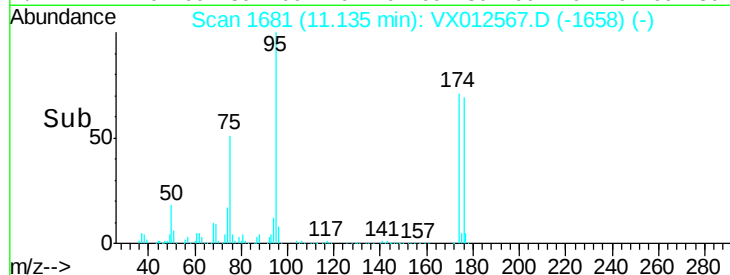
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 77.800 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012567.D

Acq: 20 Sep 2019 19:06

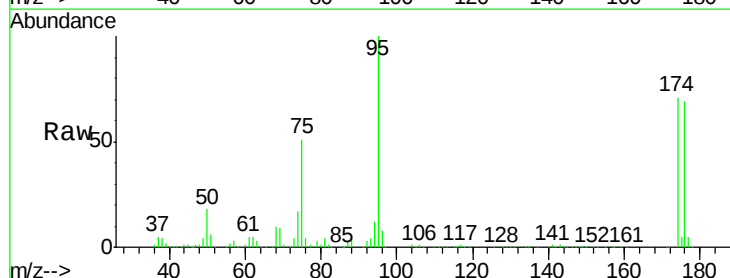
Tgt Ion: 75 Resp: 55072

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



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

11.14

50000

40000

30000

20000

10000

0

Time-->

11.10 11.20

