

Data File : VX012441.D
Acq On : 17 Sep 2019 19:05
Operator : JC/SP
Sample : K4858-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE122D3-20190909

Quant Time: Sep 18 03:25:04 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	125863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	202567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	166076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	60077	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	87932	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
35) Dibromofluoromethane	5.49	113	62348	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	
50) Toluene-d8	8.71	98	231380	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
62) 4-Bromofluorobenzene	11.14	95	77070	40.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.80%	

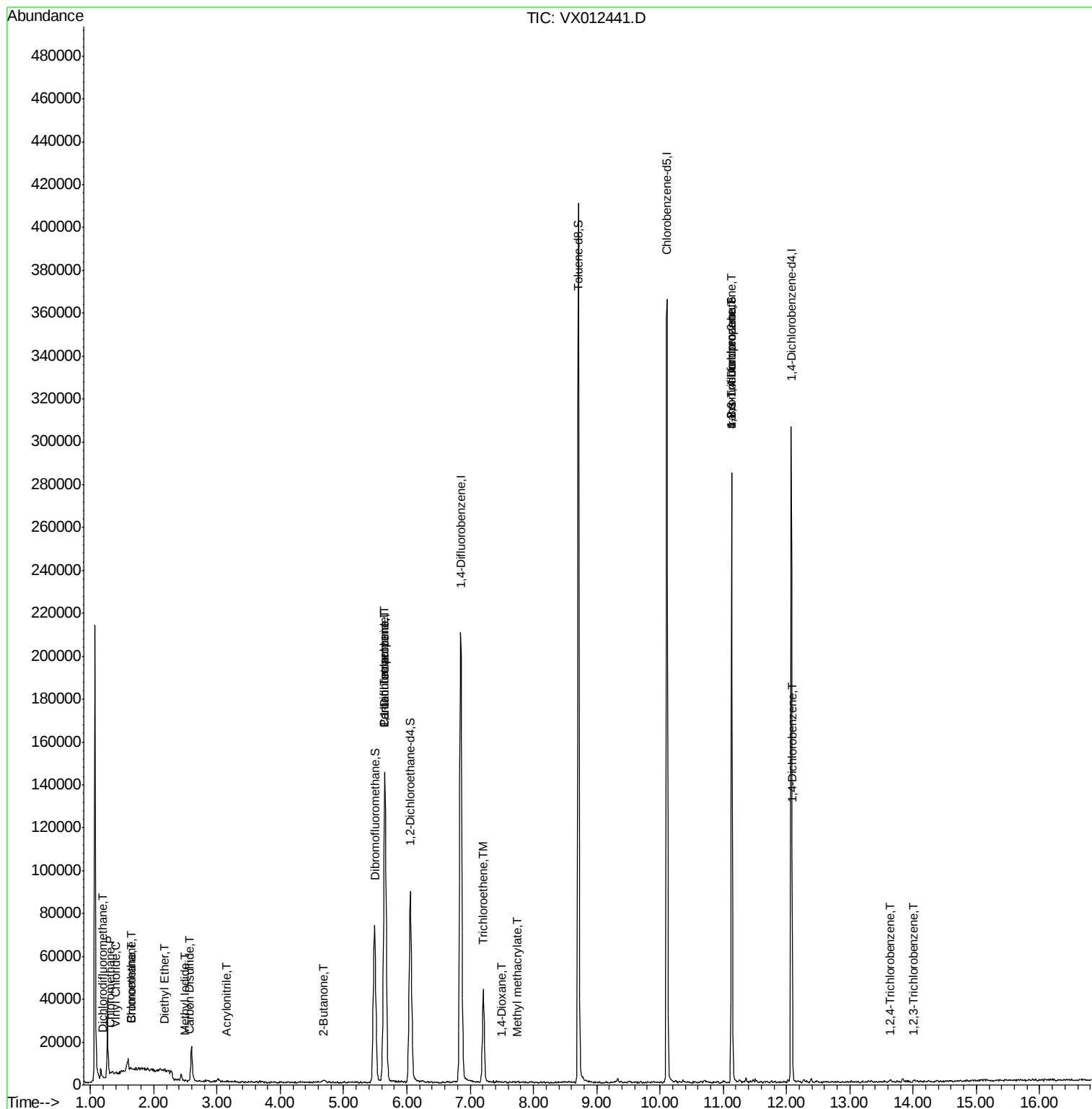
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.19	85	24	0.420 ug/l #		43
3) Chloromethane	1.32	50	230	0.332 ug/l		97
4) Vinyl Chloride	1.40	62	204	0.273 ug/l		94
5) Bromomethane	1.64	94	689	2.345 ug/l #		52
6) Chloroethane	1.64	64	916	1.565 ug/l #		76
8) Diethyl Ether	2.18	74	128	0.207 ug/l		94
10) Methyl Iodide	2.50	142	401	4.871 ug/l #		91
11) Tert butyl alcohol	3.01	59	587	Below Cal	#	72
13) Acrolein	2.29	56	238	Below Cal	#	37
15) Acrylonitrile	3.14	53	201	0.257 ug/l #		17
16) Acetone	2.44	43	2940	Below Cal	#	88
17) Carbon Disulfide	2.56	76	425	2.172 ug/l #		48
25) 2-Butanone	4.67	43	1254	1.002 ug/l #		85
36) 1,1-Dichloropropene	5.65	75	11214	9.109 ug/l #		54
38) Carbon Tetrachloride	5.65	117	13999	9.143 ug/l #		17
44) Trichloroethene	7.21	130	16092	15.626 ug/l		99
48) Methyl methacrylate	7.74	41	342	0.214 ug/l #		51
49) 1,4-Dioxane	7.49	88	21	0.540 ug/l #		1
76) 1,2,3-Trichloropropane	11.14	75	41128	29.803 ug/l #		38
81) trans-1,4-Dichloro-2-buten	11.14	75	41128	79.849 ug/l #		8
88) 1,4-Dichlorobenzene	12.09	146	458	0.258 ug/l #		1
93) 1,2,4-Trichlorobenzene	13.65	180	337	0.289 ug/l		80
96) 1,2,3-Trichlorobenzene	14.01	180	262	0.221 ug/l		82

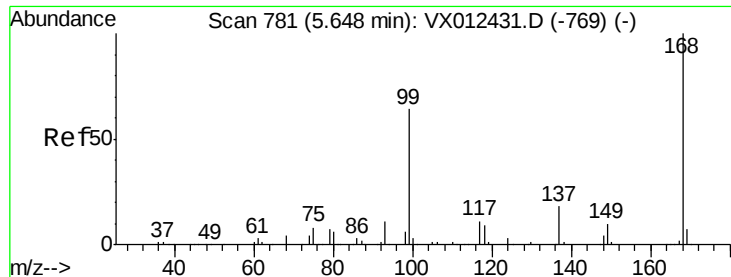
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

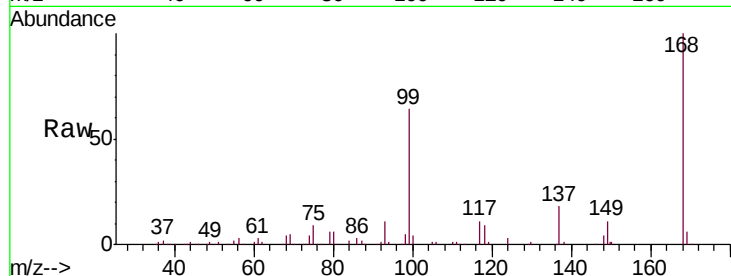
RE122D3-20190909

Tgt Ion:168 Resp: 125863

Ion Ratio Lower Upper

168 100

99 64.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

40000

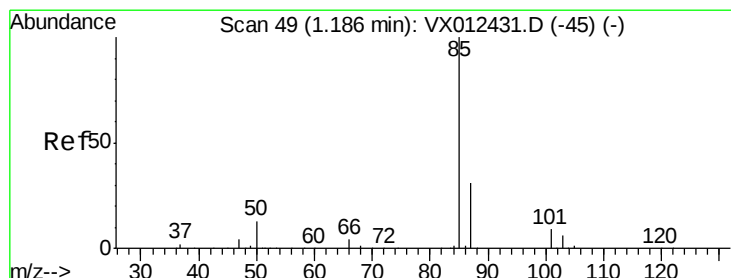
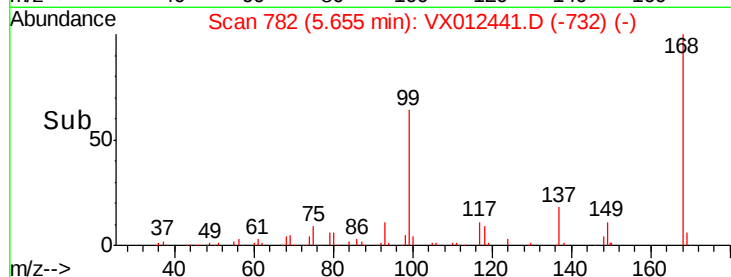
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.420 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012441.D

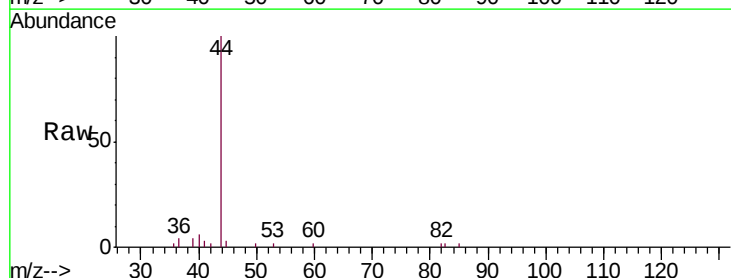
Acq: 17 Sep 2019 19:05

Tgt Ion: 85 Resp: 24

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

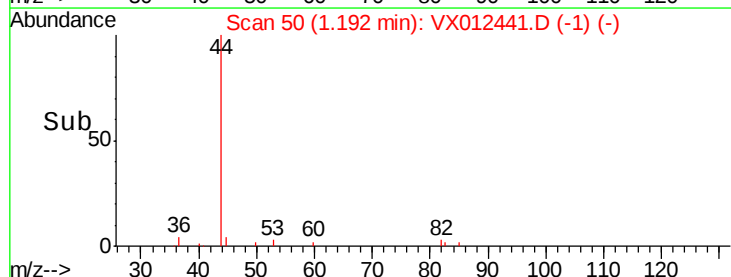
60

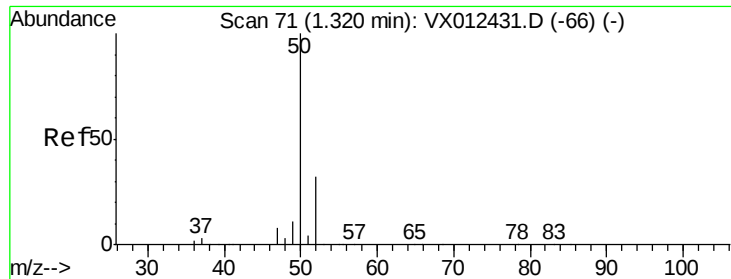
40

20

0

Time--> 1.17 1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: 0.332 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

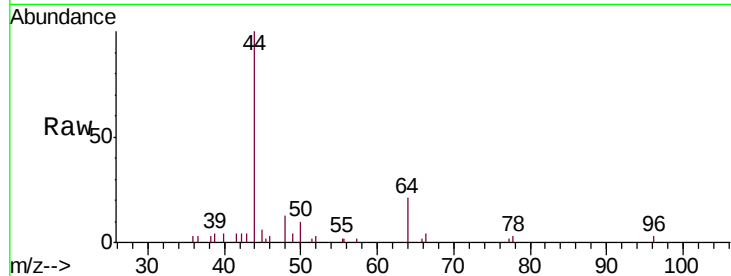
RE122D3-20190909

Tgt Ion: 50 Resp: 230

Ion Ratio Lower Upper

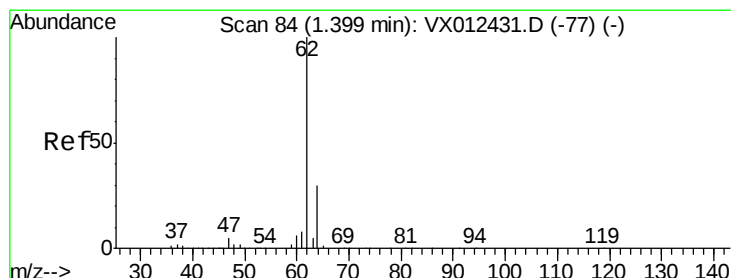
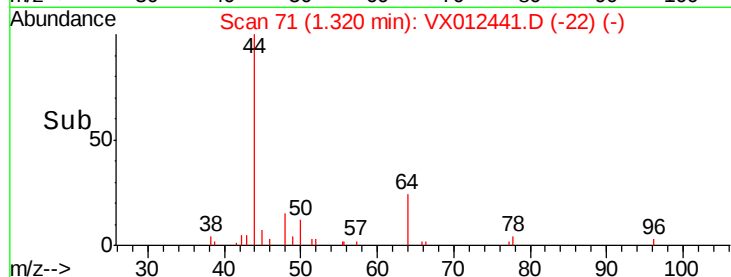
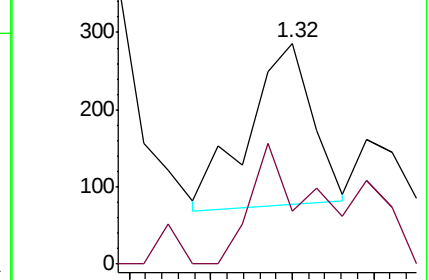
50 100

52 33.8 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.273 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012441.D

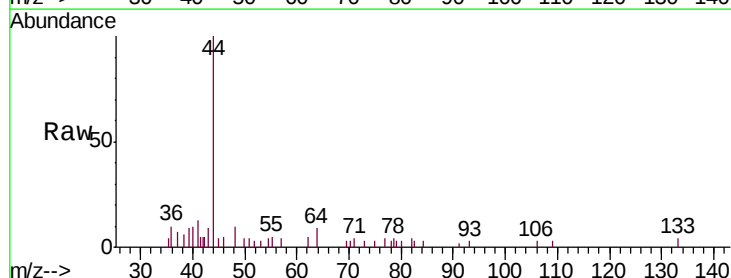
Acq: 17 Sep 2019 19:05

Tgt Ion: 62 Resp: 204

Ion Ratio Lower Upper

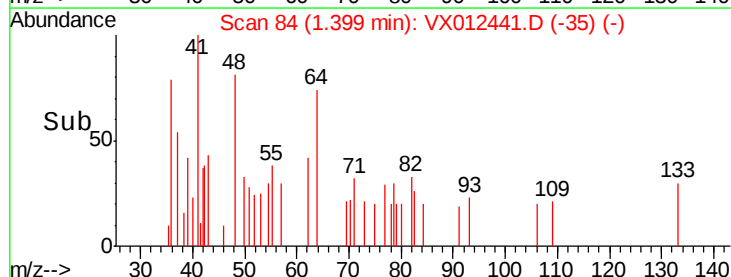
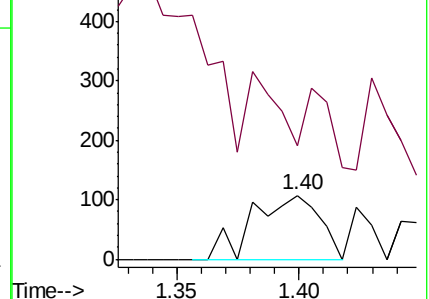
62 100

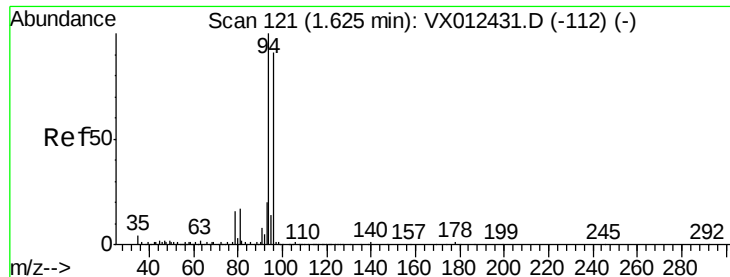
64 33.6 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 2.345 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

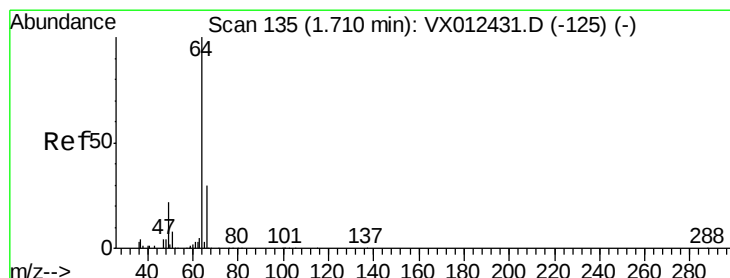
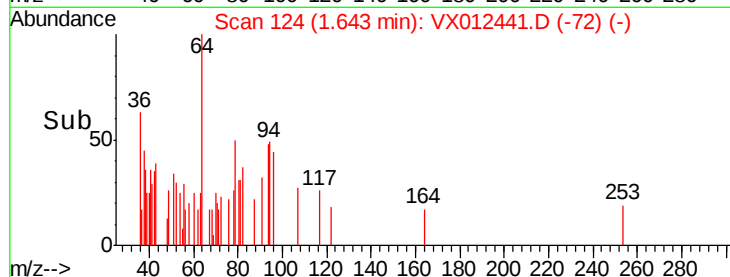
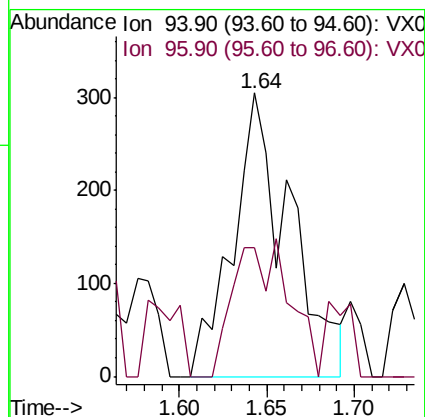
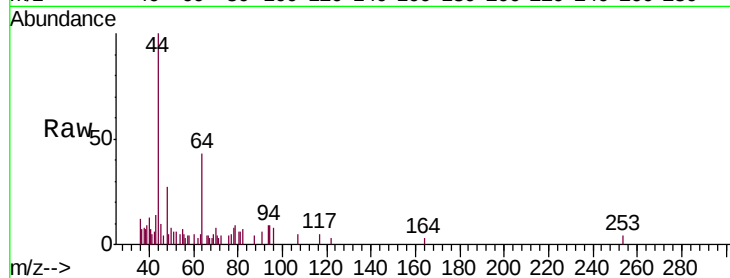
RE122D3-20190909

Tgt Ion: 94 Resp: 689

Ion Ratio Lower Upper

94 100

96 45.6 72.8 109.2#



#6

Chloroethane

Concen: 1.565 ug/l

RT: 1.64 min Scan# 124

Delta R.T. -0.07 min

Lab File: VX012441.D

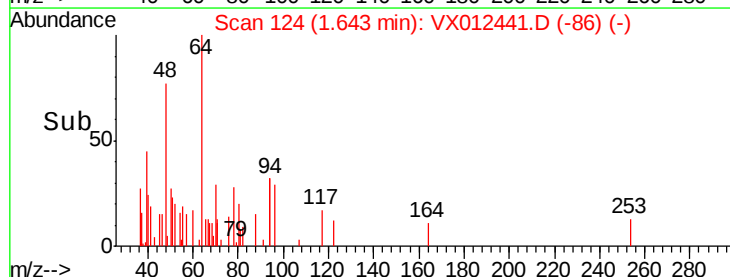
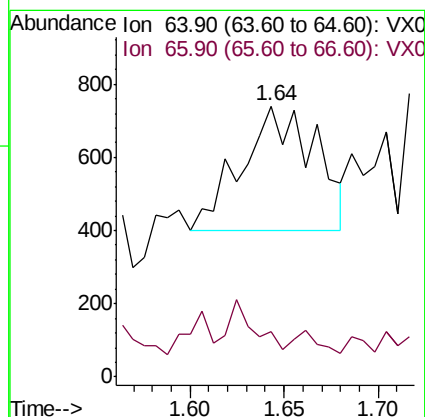
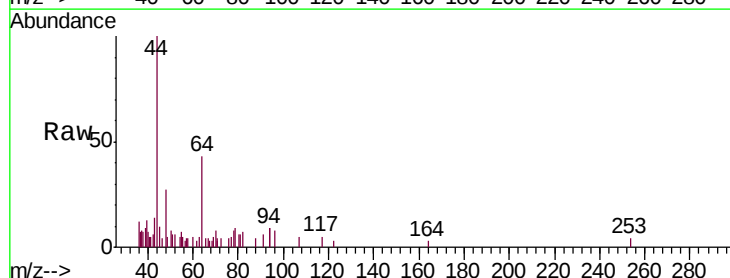
Acq: 17 Sep 2019 19:05

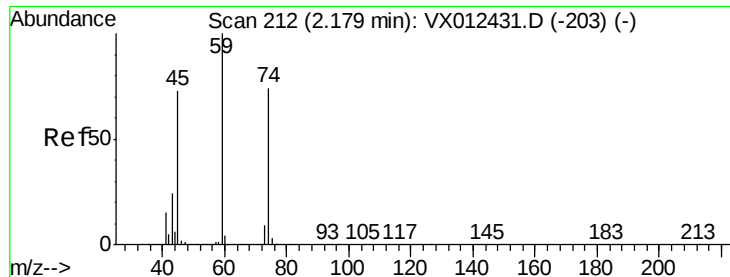
Tgt Ion: 64 Resp: 916

Ion Ratio Lower Upper

64 100

66 17.1 24.0 36.0#





#8

Diethyl Ether

Concen: 0.207 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

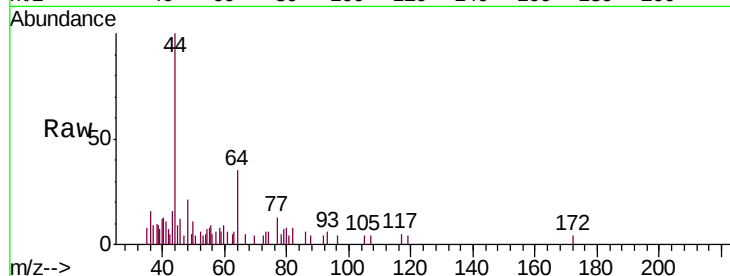
RE122D3-20190909

Tgt Ion: 74 Resp: 128

Ion Ratio Lower Upper

74 100

45 105.5 49.9 149.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

300

200

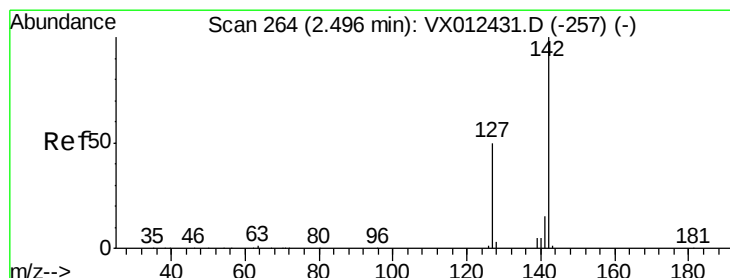
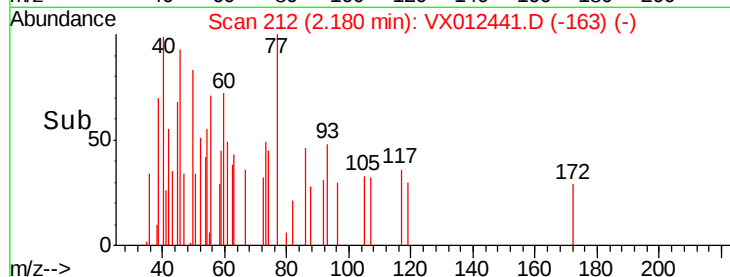
100

0

2.14 2.16 2.18 2.20 2.22

2.18

Time-->



#10

Methyl Iodide

Concen: 4.871 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

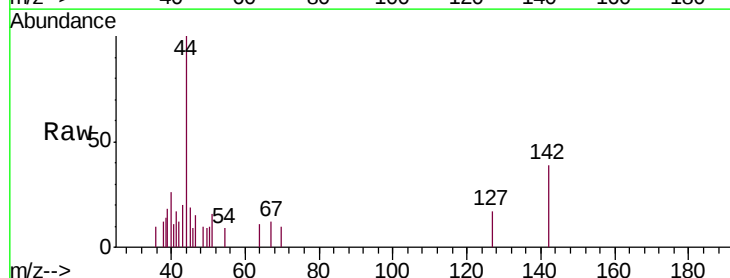
Tgt Ion: 142 Resp: 401

Ion Ratio Lower Upper

142 100

127 51.9 40.8 61.2

141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

300

250

200

150

100

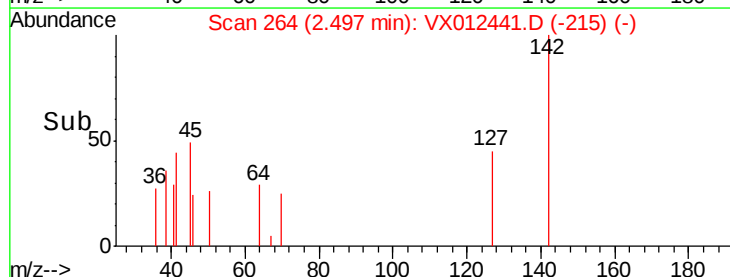
50

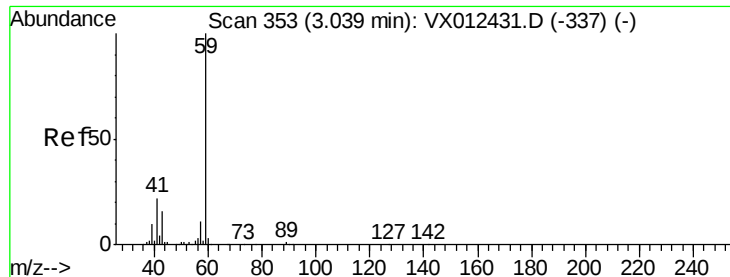
0

2.45 2.50 2.55

2.50

Time-->



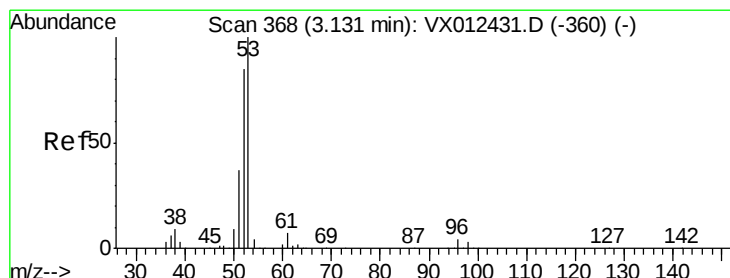
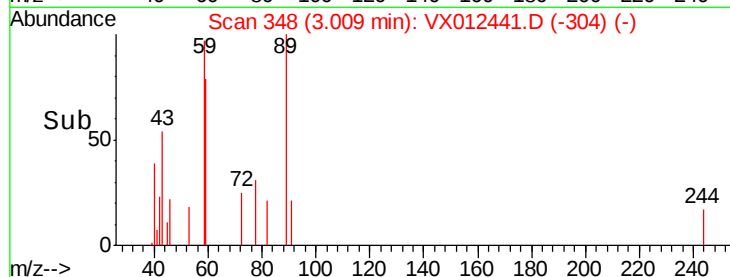
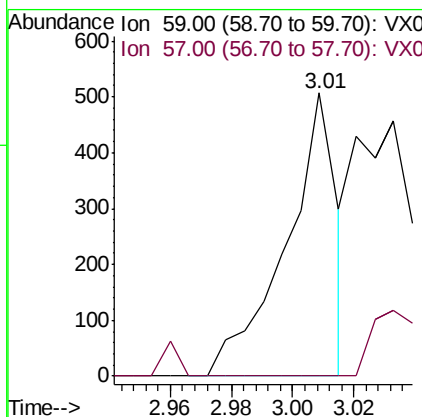
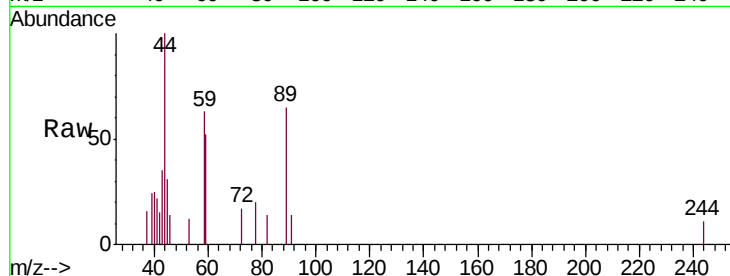


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D3-20190909

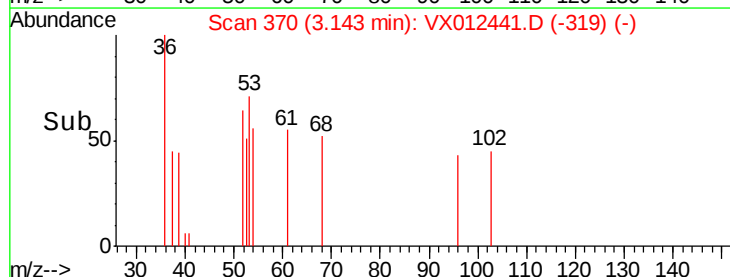
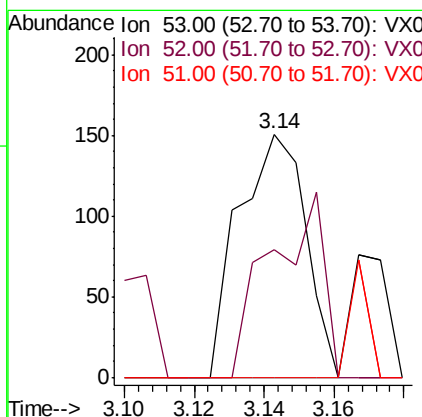
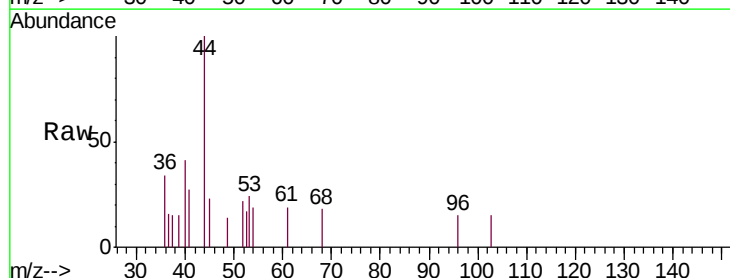
Tgt Ion: 59 Resp: 587
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

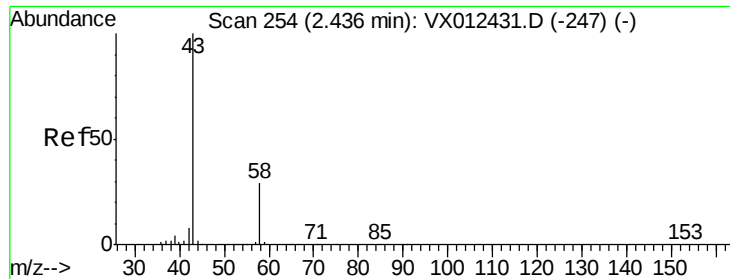


#15

Acrylonitrile
 Concen: 0.257 ug/l
 RT: 3.14 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

Tgt Ion: 53 Resp: 201
 Ion Ratio Lower Upper
 53 100
 52 0.0 67.0 100.4#
 51 0.0 29.6 44.4#





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

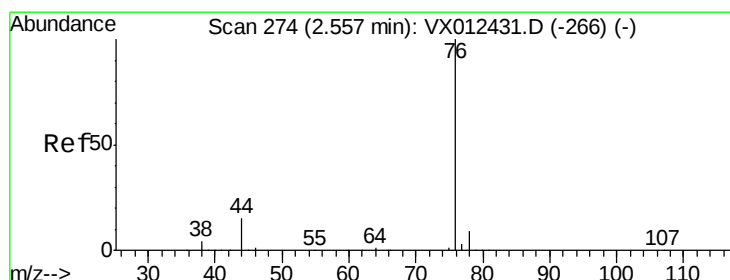
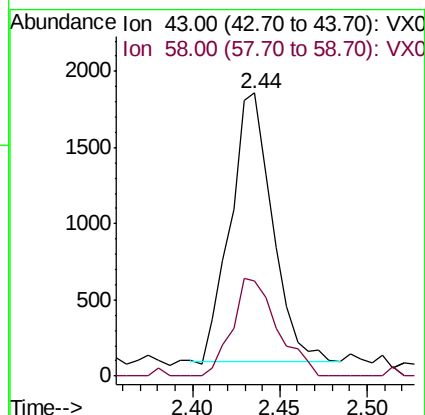
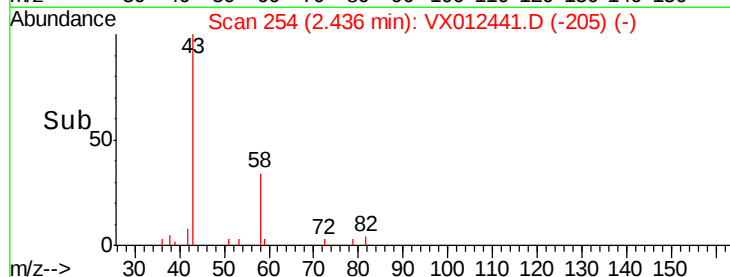
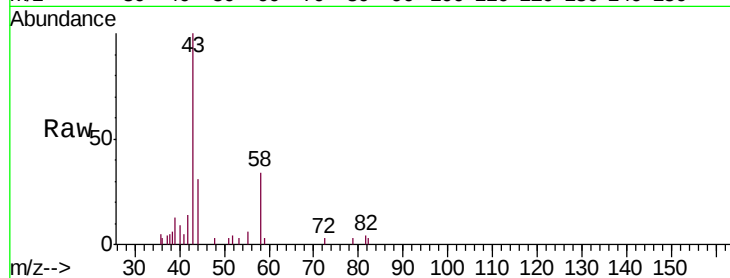
RE122D3-20190909

Tgt Ion: 43 Resp: 2940

Ion Ratio Lower Upper

43 100

58 35.4 23.3 34.9#



#17

Carbon Disulfide

Concen: 2.172 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012441.D

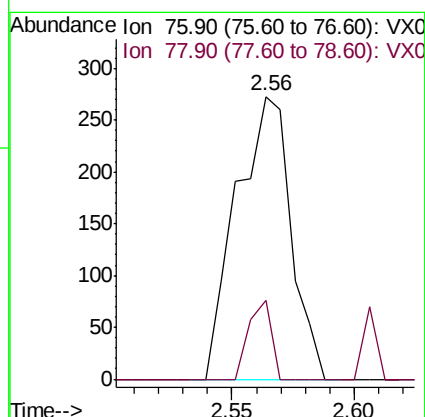
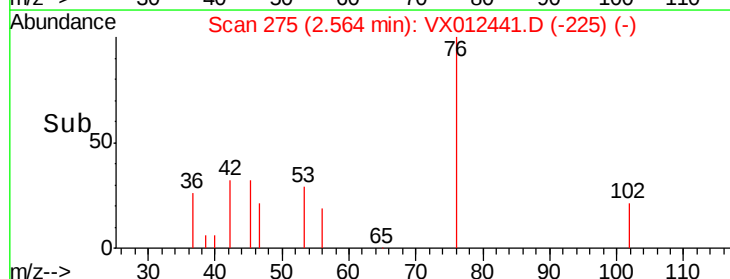
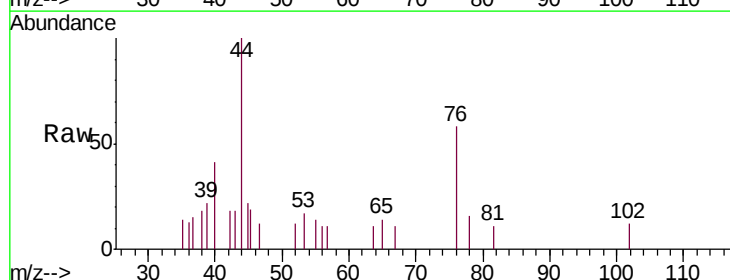
Acq: 17 Sep 2019 19:05

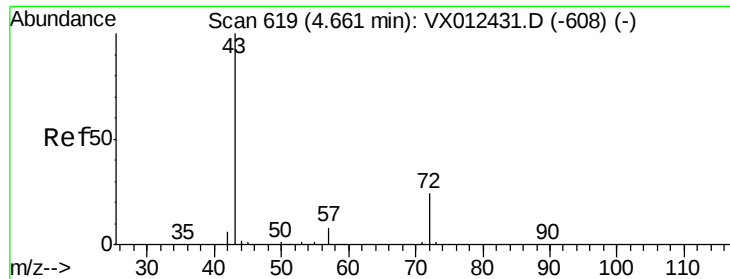
Tgt Ion: 76 Resp: 425

Ion Ratio Lower Upper

76 100

78 27.8 7.3 10.9#





#25

2-Butanone

Concen: 1.002 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

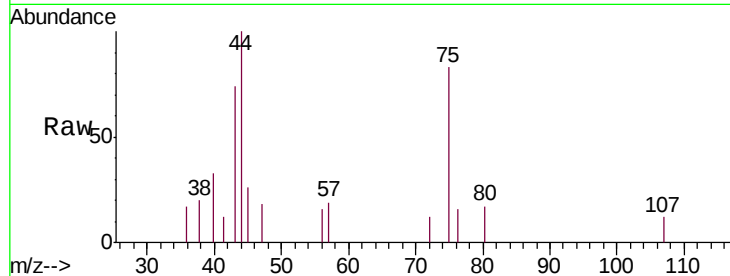
RE122D3-20190909

Tgt Ion: 43 Resp: 1254

Ion Ratio Lower Upper

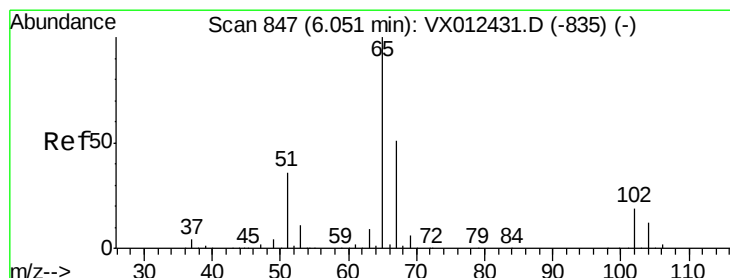
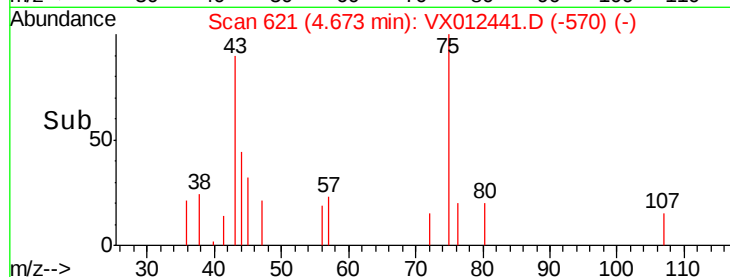
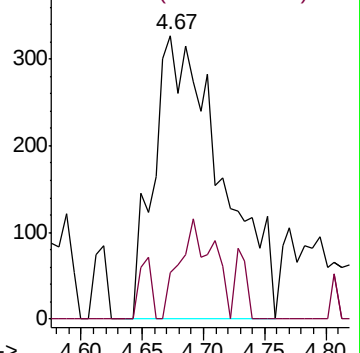
43 100

72 16.5 19.2 28.8#



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: 48.746 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012441.D

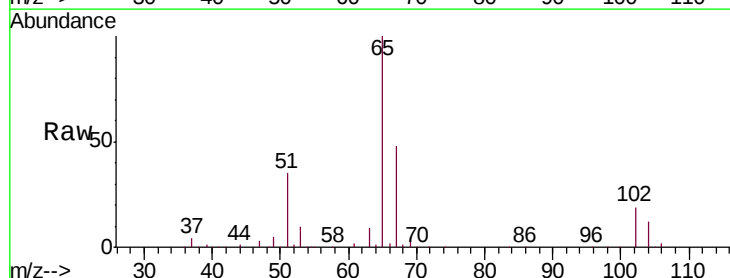
Acq: 17 Sep 2019 19:05

Tgt Ion: 65 Resp: 87932

Ion Ratio Lower Upper

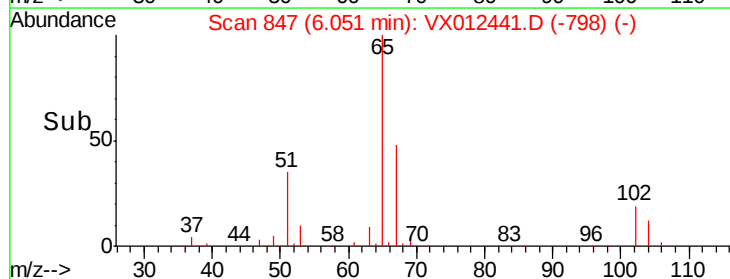
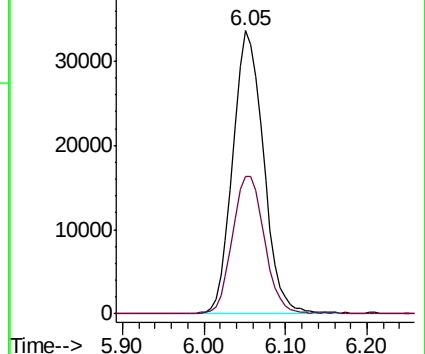
65 100

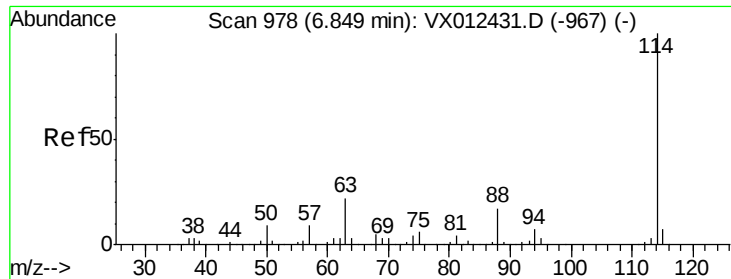
67 50.5 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

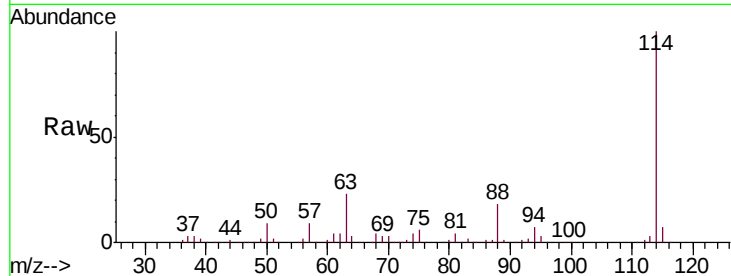




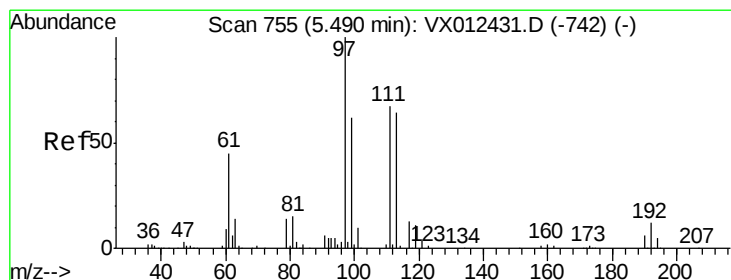
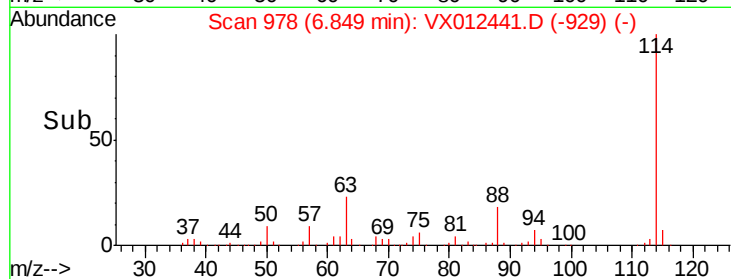
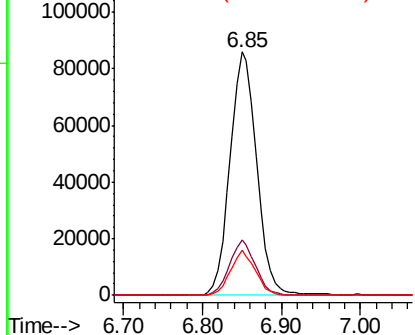
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D3-20190909

Tgt Ion:114 Resp: 202567
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 43.2
 88 18.4 0.0 33.2

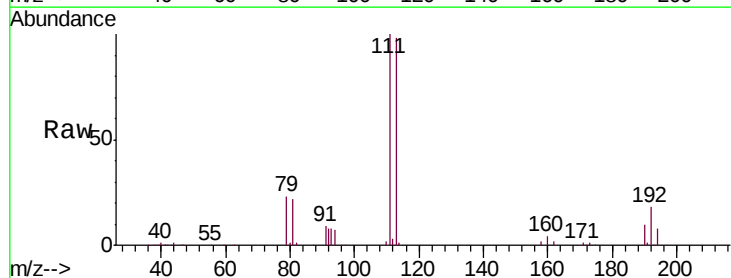


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

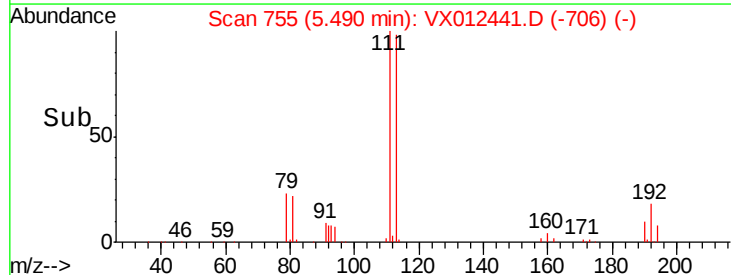
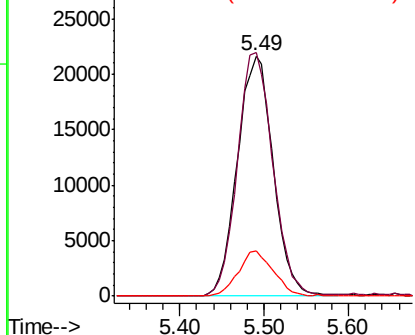


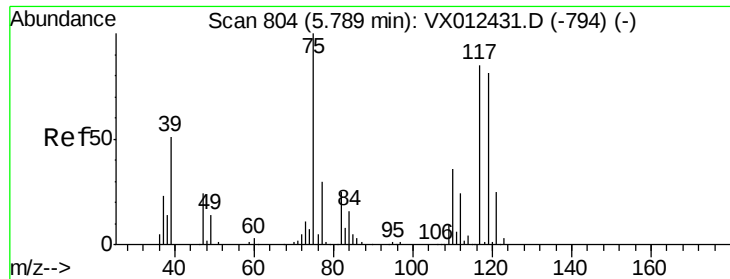
#35
 Dibromofluoromethane
 Concen: 50.853 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

Tgt Ion:113 Resp: 62348
 Ion Ratio Lower Upper
 113 100
 111 100.6 83.4 125.2
 192 18.4 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

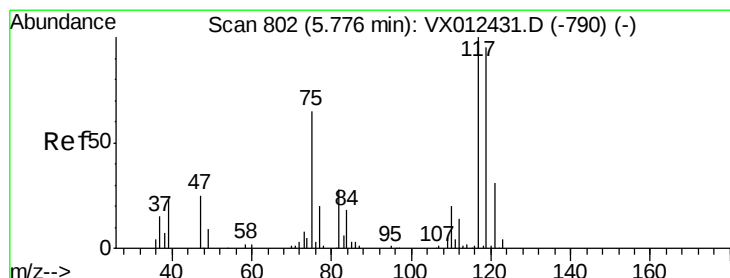
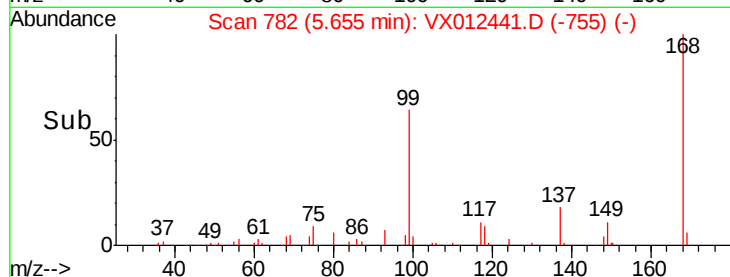
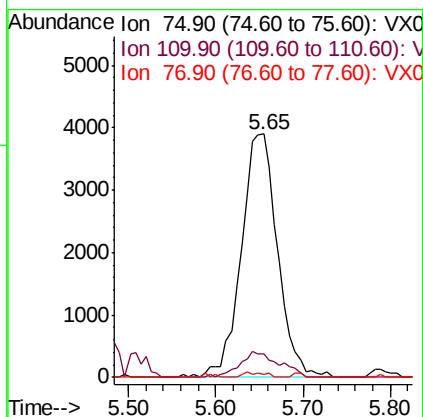
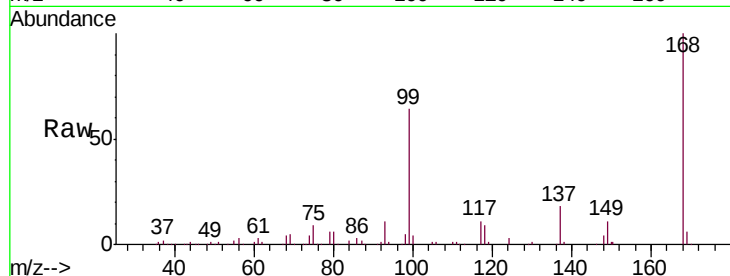




#36
 1,1-Dichloropropene
 Concen: 9.109 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

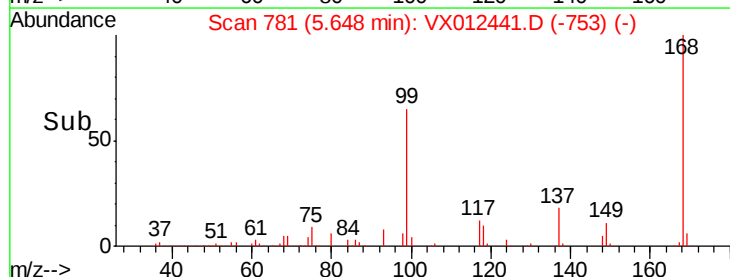
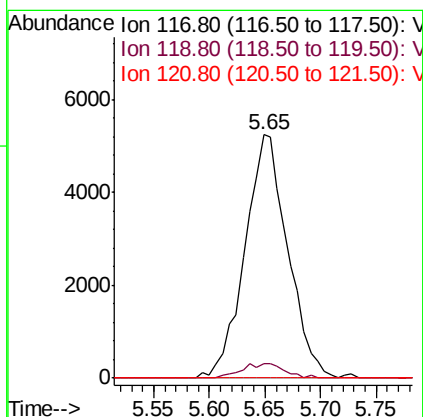
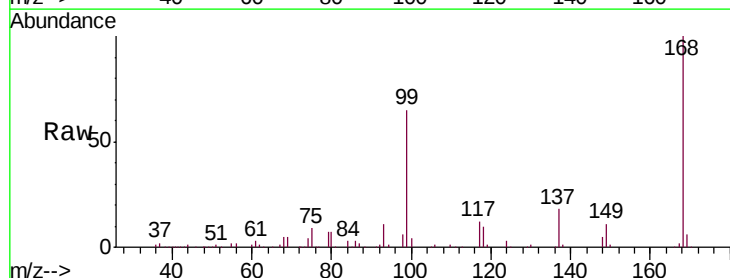
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D3-20190909

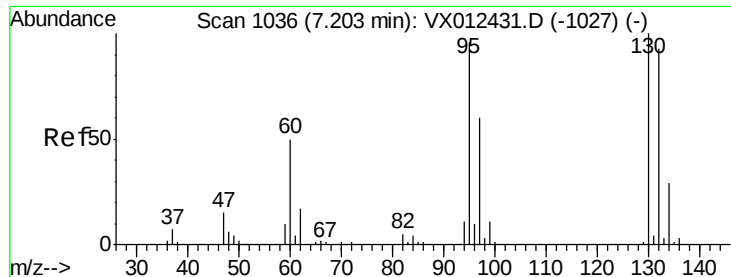
Tgt Ion: 75 Resp: 11214
 Ion Ratio Lower Upper
 75 100
 110 11.3 16.7 50.0#
 77 1.2 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 9.143 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

Tgt Ion: 117 Resp: 13999
 Ion Ratio Lower Upper
 117 100
 119 6.1 75.7 113.5#
 121 0.0 24.2 36.4#





#44

Trichloroethene

Concen: 15.626 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

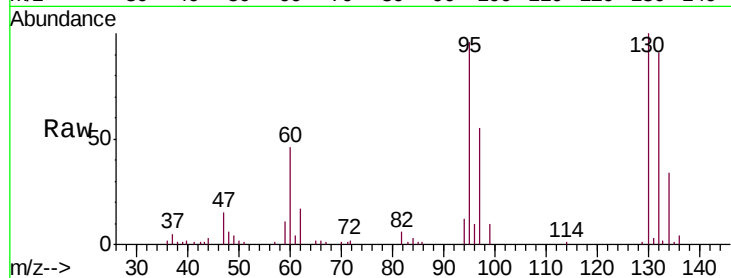
RE122D3-20190909

Tgt Ion:130 Resp: 16092

Ion Ratio Lower Upper

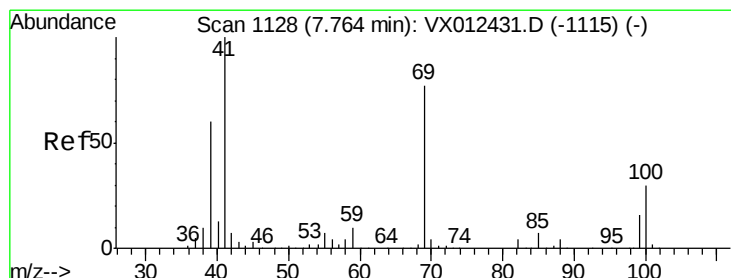
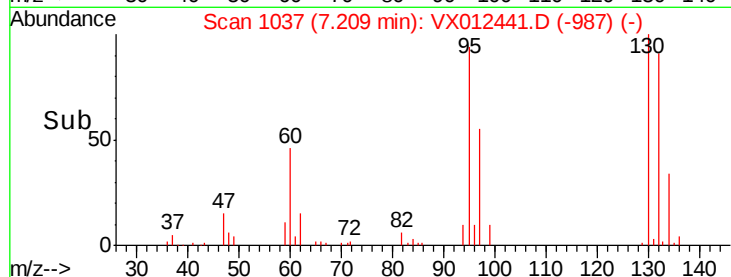
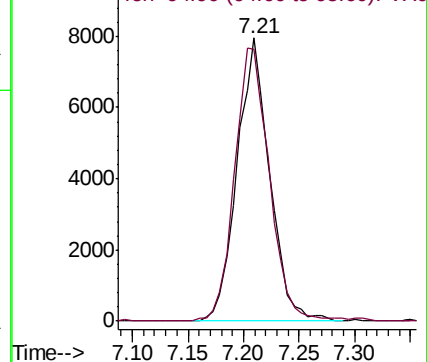
130 100

95 96.0 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 0.214 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. -0.02 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

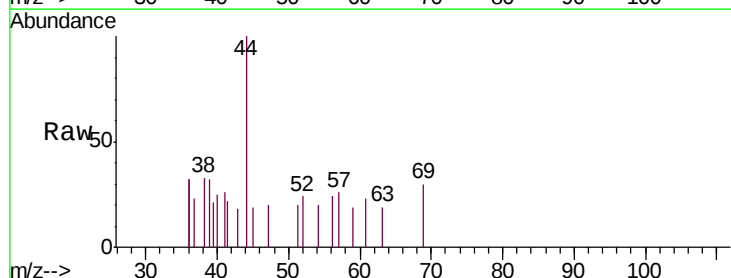
Tgt Ion: 41 Resp: 342

Ion Ratio Lower Upper

41 100

69 9.6 59.9 89.9#

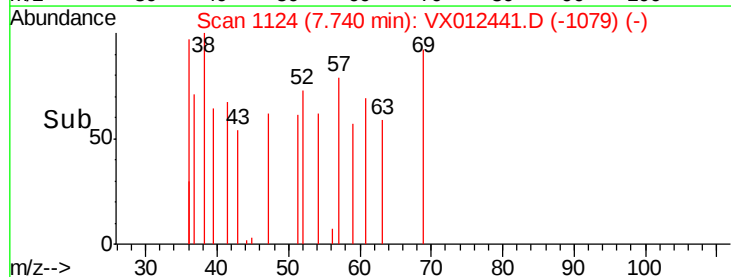
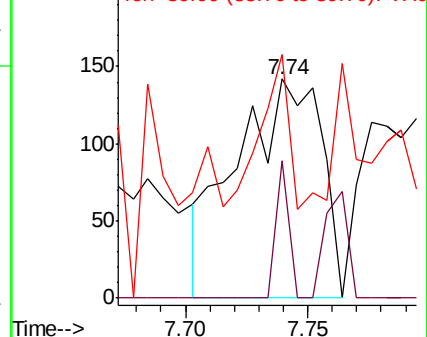
39 48.2 47.8 71.6

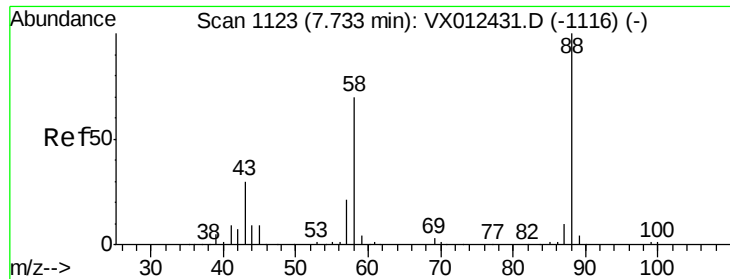


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

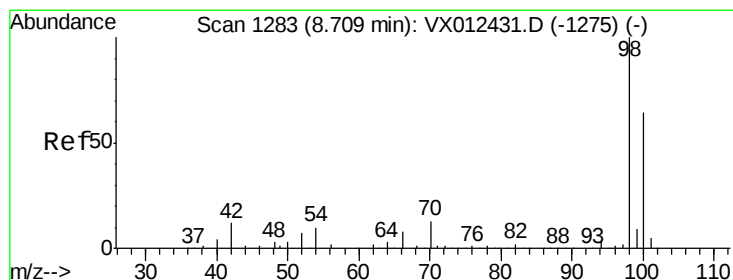
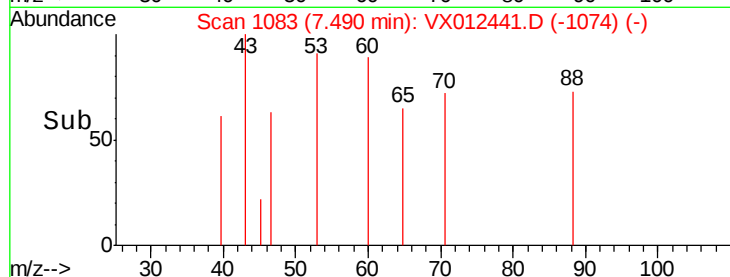
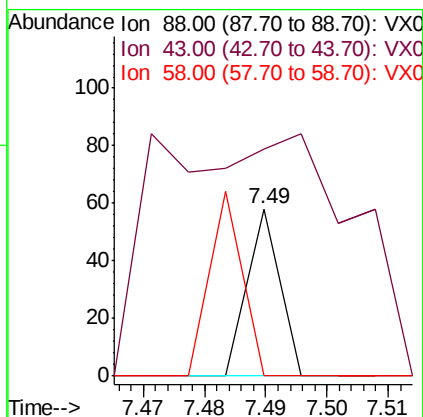
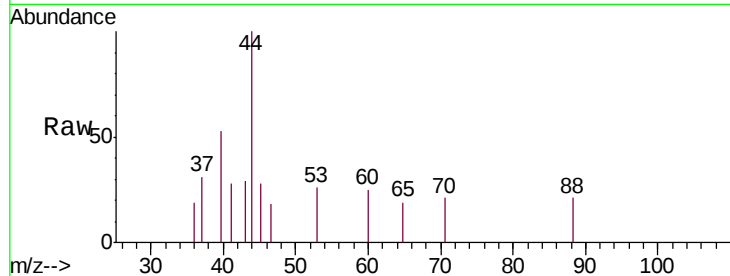




#49
1,4-Dioxane
Concen: 0.540 ug/l
RT: 7.49 min Scan# 1083
Delta R.T. -0.24 min
Lab File: VX012441.D
Acq: 17 Sep 2019 19:05

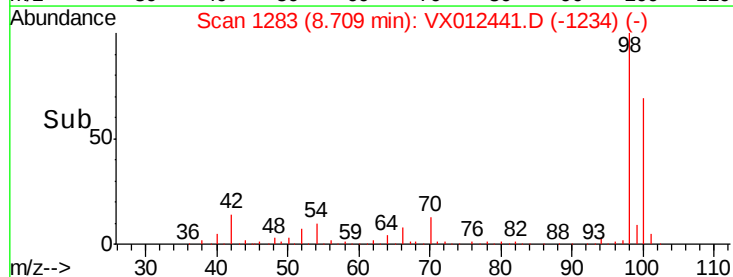
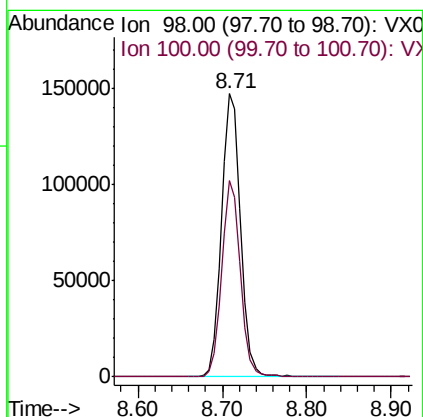
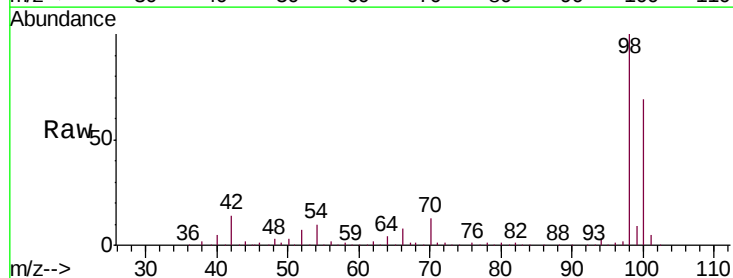
Instrument :
MSVOA_X
ClientSampleId :
RE122D3-20190909

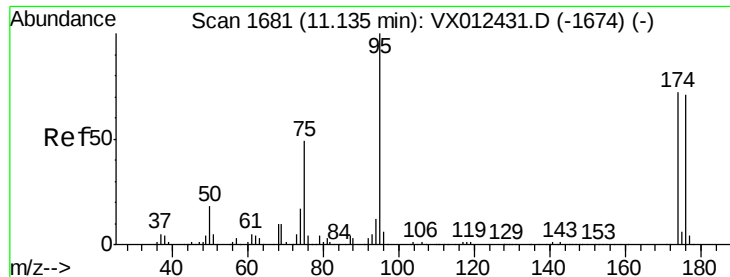
Tgt Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 871.4 29.4 44.0#
58 109.5 57.5 86.3#



#50
Toluene-d8
Concen: 50.985 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012441.D
Acq: 17 Sep 2019 19:05

Tgt Ion: 98 Resp: 231380
Ion Ratio Lower Upper
98 100
100 67.6 53.4 80.2





#62

4-Bromofluorobenzene

Concen: 40.901 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

RE122D3-20190909

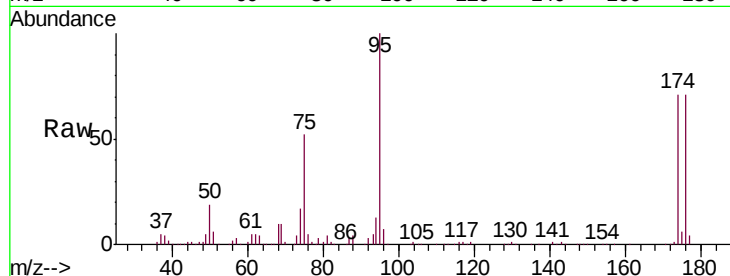
Tgt Ion: 95 Resp: 77070

Ion Ratio Lower Upper

95 100

174 71.0 0.0 140.0

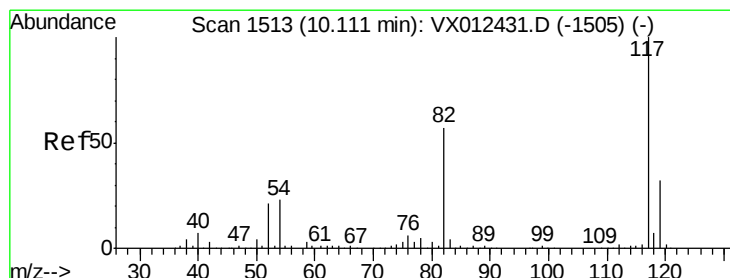
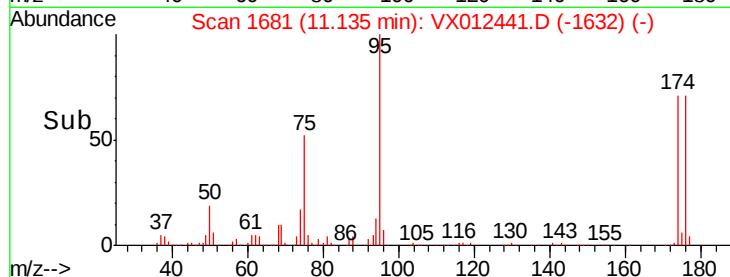
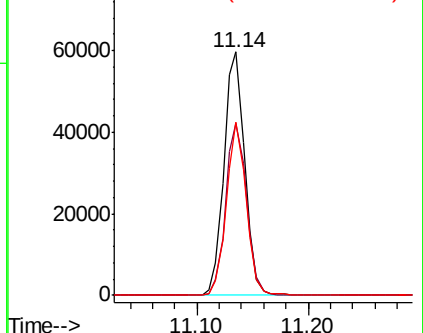
176 67.5 0.0 135.4



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: VX012441.D

Acq: 17 Sep 2019 19:05

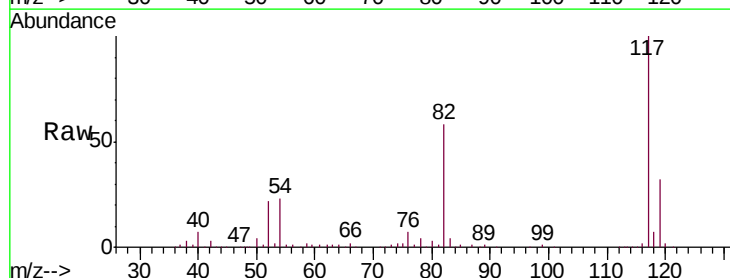
Tgt Ion: 117 Resp: 166076

Ion Ratio Lower Upper

117 100

82 58.2 45.9 68.9

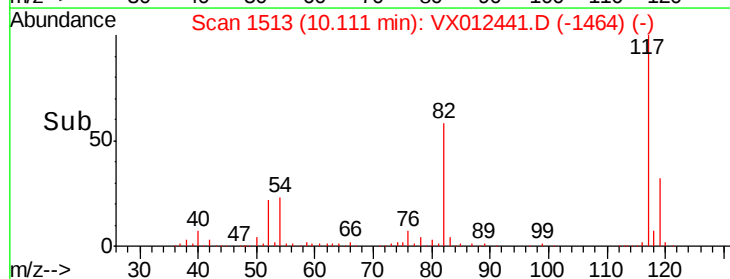
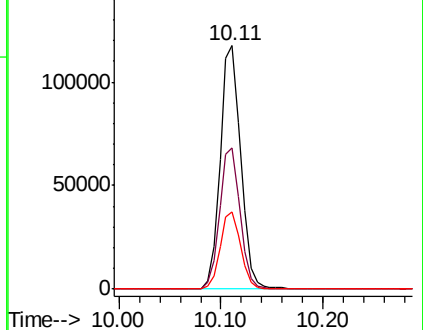
119 32.0 25.3 37.9

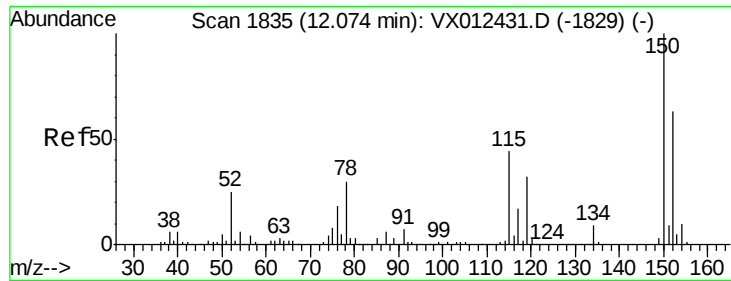


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

RE122D3-20190909

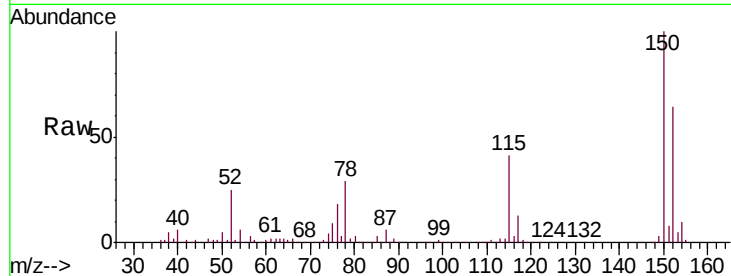
Tgt Ion:152 Resp: 60077

Ion Ratio Lower Upper

152 100

115 62.2 44.1 132.3

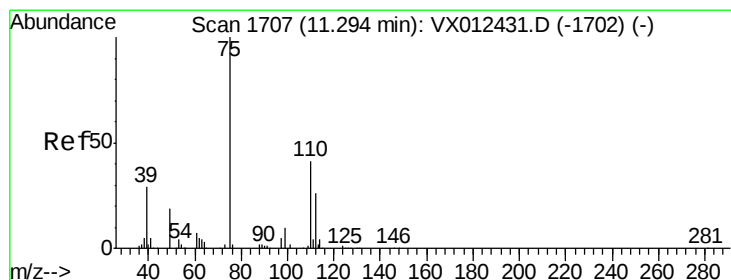
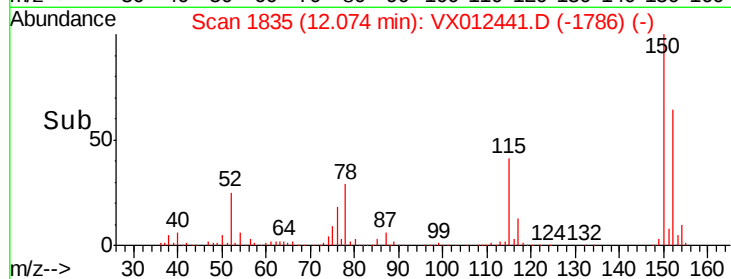
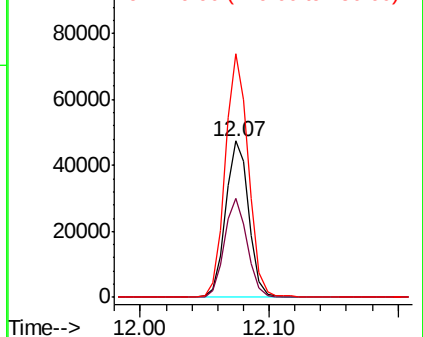
150 154.9 0.0 343.8



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: 29.803 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012441.D

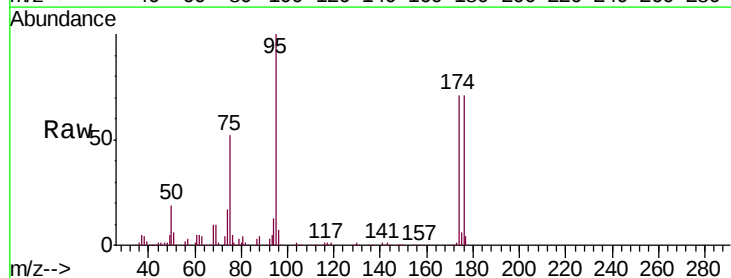
Acq: 17 Sep 2019 19:05

Tgt Ion: 75 Resp: 41128

Ion Ratio Lower Upper

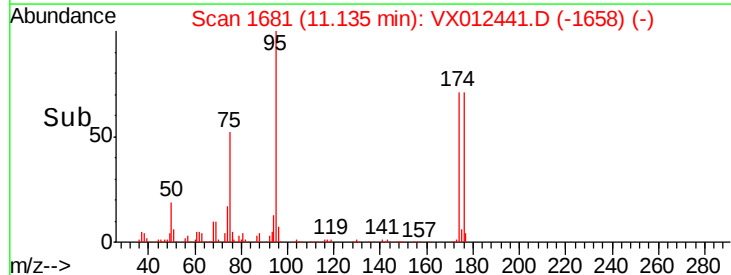
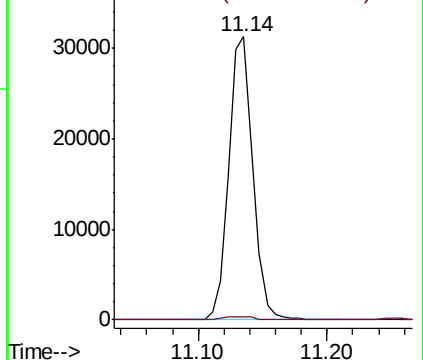
75 100

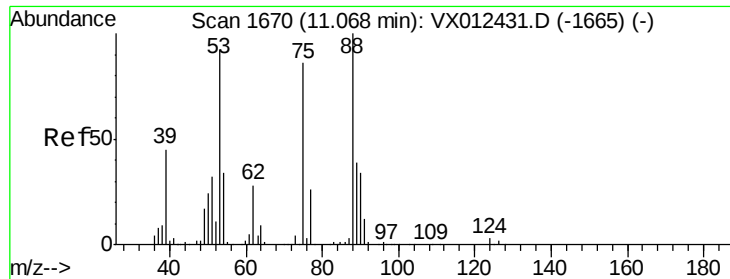
77 1.4 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 79.849 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

RE122D3-20190909

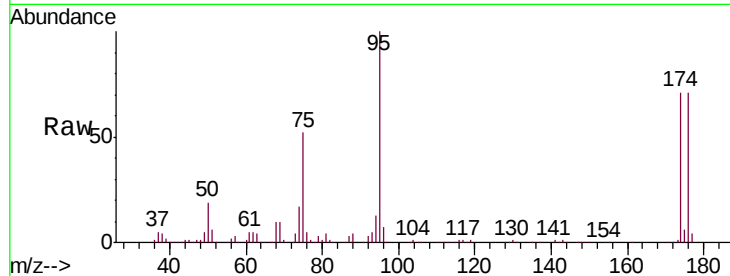
Tgt Ion: 75 Resp: 41128

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

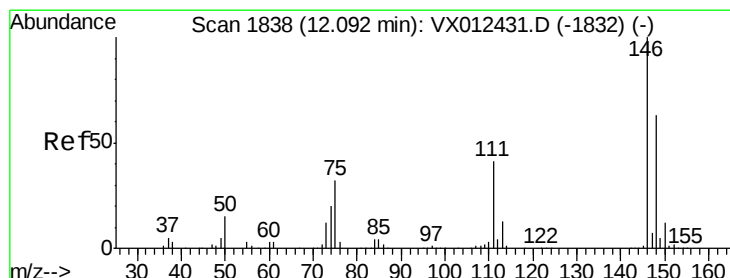
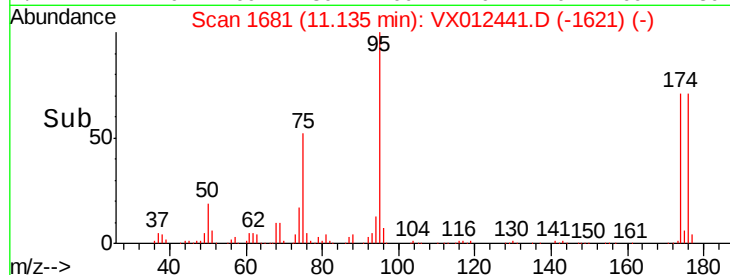
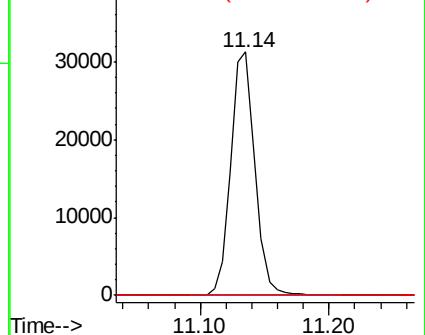
89 0.1 36.3 54.5#



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



#88

1,4-Dichlorobenzene

Concen: 0.258 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX012441.D

Acq: 17 Sep 2019 19:05

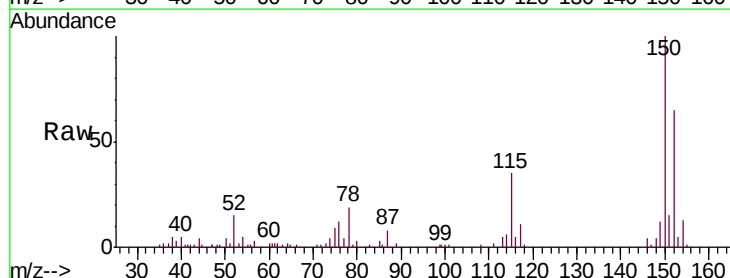
Tgt Ion: 146 Resp: 458

Ion Ratio Lower Upper

146 100

111 249.1 21.1 63.3#

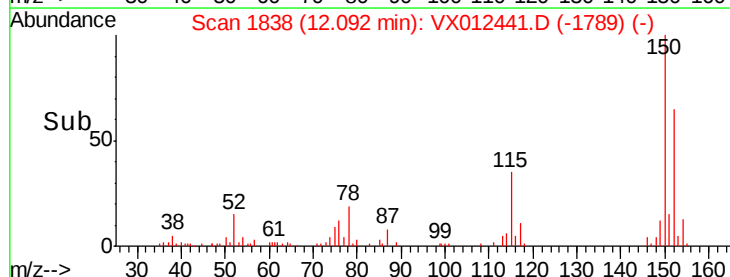
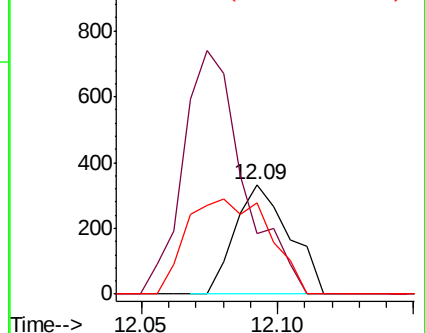
148 133.4 32.1 96.5#

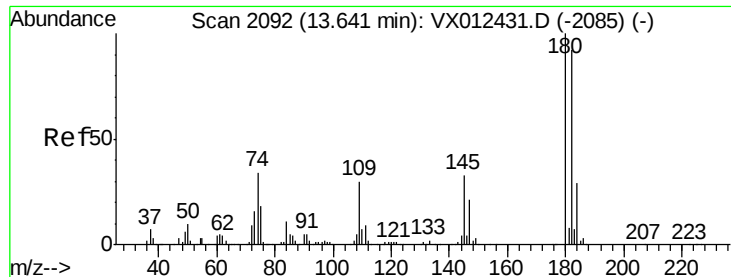


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

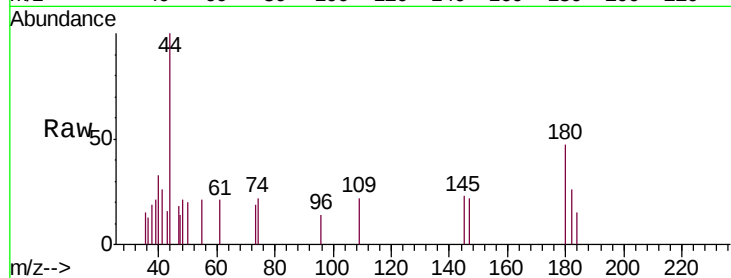




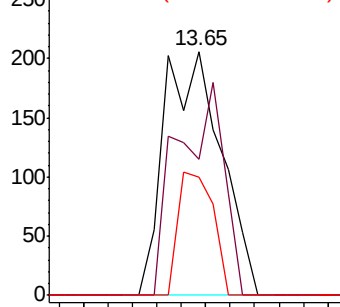
#93
 1,2,4-Trichlorobenzene
 Concen: 0.289 ug/l
 RT: 13.65 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D3-20190909

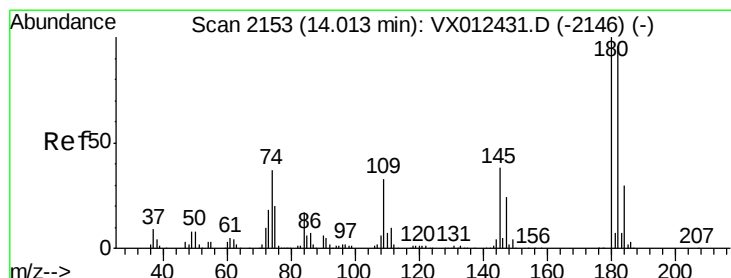
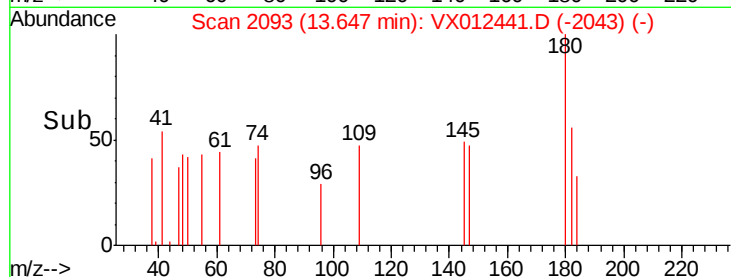
Tgt Ion:180 Resp: 337
 Ion Ratio Lower Upper
 180 100
 182 70.0 47.0 141.0
 145 30.6 16.8 50.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

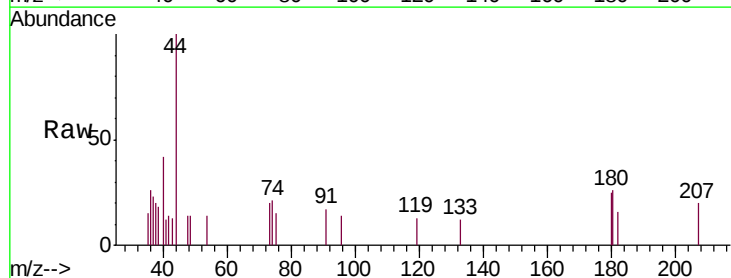


Time-->

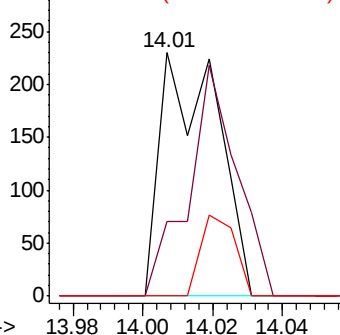


#96
 1,2,3-Trichlorobenzene
 Concen: 0.221 ug/l
 RT: 14.01 min Scan# 2152
 Delta R.T. -0.01 min
 Lab File: VX012441.D
 Acq: 17 Sep 2019 19:05

Tgt Ion:180 Resp: 262
 Ion Ratio Lower Upper
 180 100
 182 79.8 47.1 141.3
 145 19.8 18.0 54.0



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V



Time-->

