

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091119\
 Data File : VX012321.D
 Acq On : 12 Sep 2019 00:53
 Operator : SY/SP
 Sample : K4694-04
 Misc : 5.30g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-(0)

Quant Time: Sep 12 05:44:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 12:55:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	161492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	274808	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	235511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	90388	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	109104	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
35) Dibromofluoromethane	5.48	113	82662	46.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.84%	
50) Toluene-d8	8.71	98	321030	51.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.92%	
62) 4-Bromofluorobenzene	11.13	95	116110	40.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.06%	

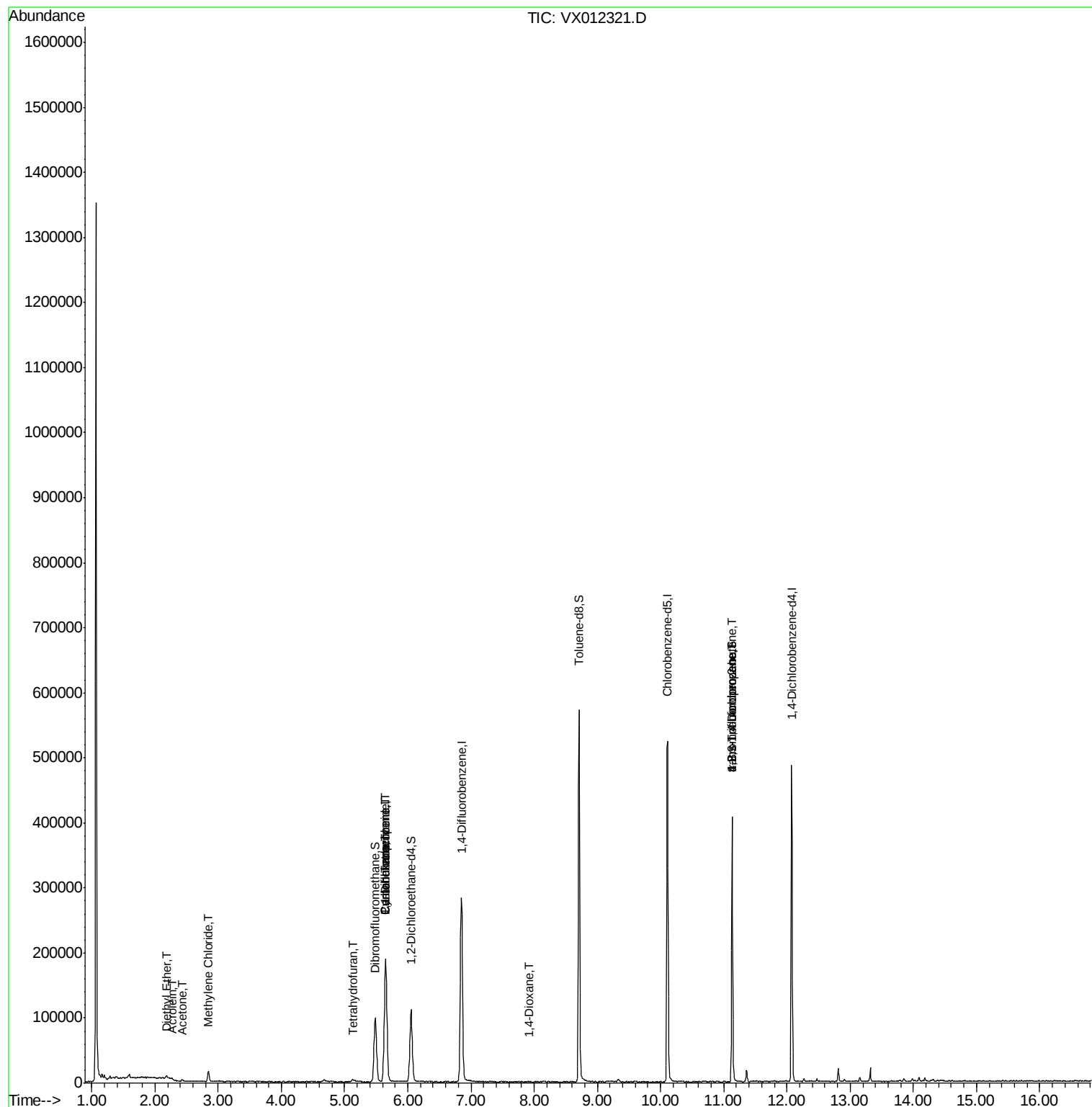
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	232	Below Cal	#	57
8) Diethyl Ether	2.17	74	1217	1.670	ug/l	93
11) Tert butyl alcohol	3.03	59	1288	Below Cal	#	41
13) Acrolein	2.28	56	381	3.192	ug/l #	12
16) Acetone	2.44	43	1572	2.908	ug/l	97
20) Methylene Chloride	2.84	84	7131	1.683	ug/l	89
29) Tetrahydrofuran	5.14	42	3068	8.230	ug/l	91
31) Cyclohexane	5.64	56	4580	2.160	ug/l #	25
36) 1,1-Dichloropropene	5.65	75	14033	7.003	ug/l #	53
38) Carbon Tetrachloride	5.65	117	18732	7.968	ug/l #	13
49) 1,4-Dioxane	7.92	88	22	1.304	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	61553	53.010	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	61553	158.829	ug/l #	5

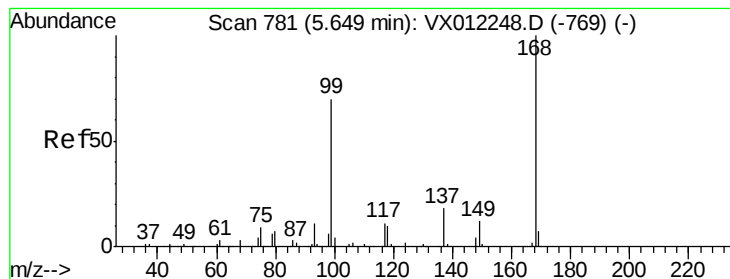
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX091119\
Data File : VX012321.D
Acq On : 12 Sep 2019 00:53
Operator : SY/SP
Sample : K4694-04
Misc : 5.30g/5.0mL/MSVOA_X/SOIL
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
T1-2-(0)

Quant Time: Sep 12 05:44:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 12:55:26 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

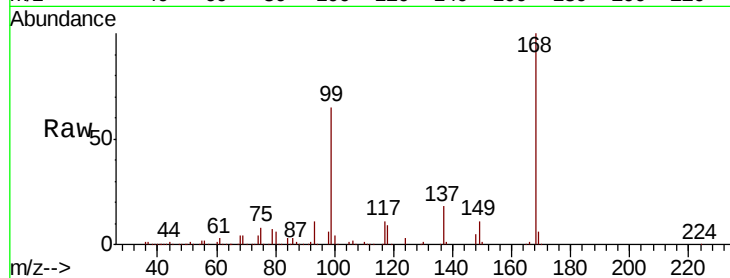
T1-2-(0)

Tgt Ion:168 Resp: 161492

Ion Ratio Lower Upper

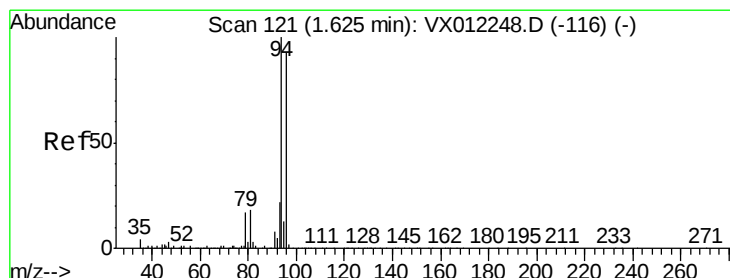
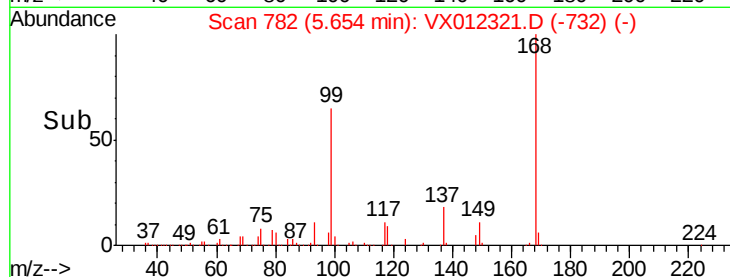
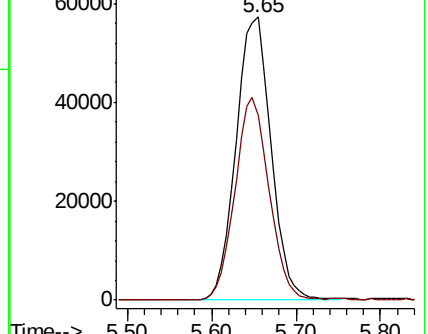
168 100

99 65.2 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012321.D

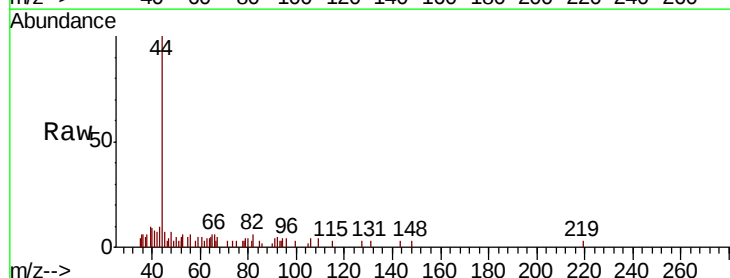
Acq: 12 Sep 2019 00:53

Tgt Ion: 94 Resp: 232

Ion Ratio Lower Upper

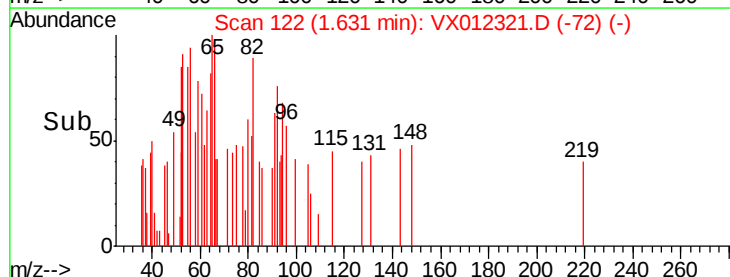
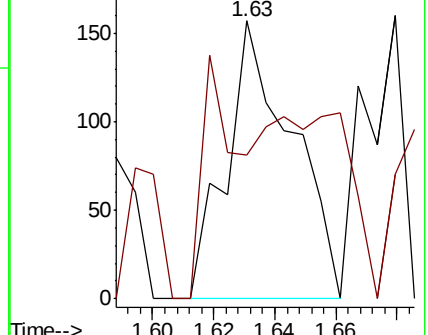
94 100

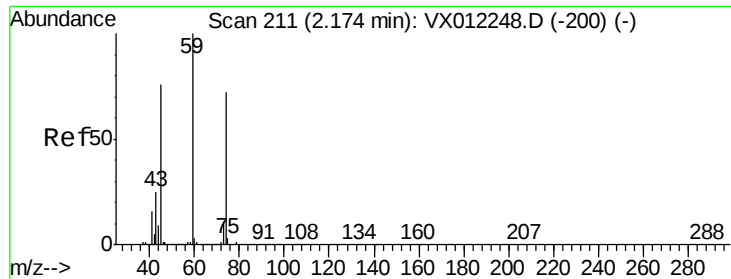
96 51.6 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 1.670 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

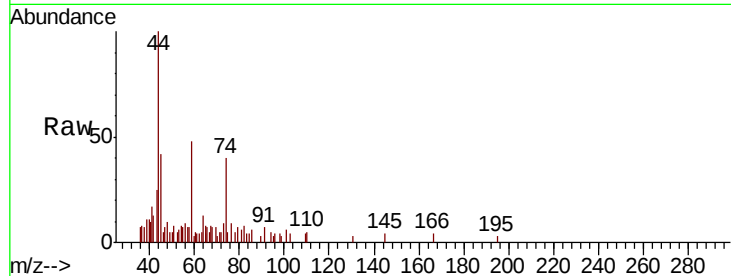
T1-2-(0)

Tgt Ion: 74 Resp: 1217

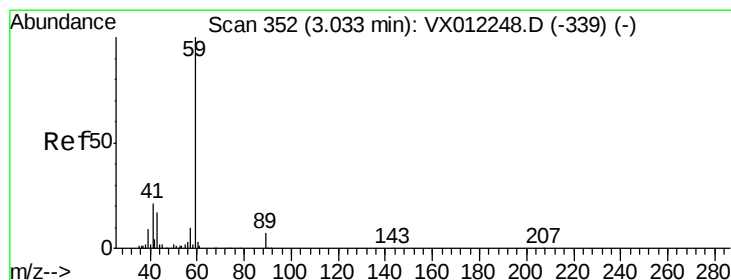
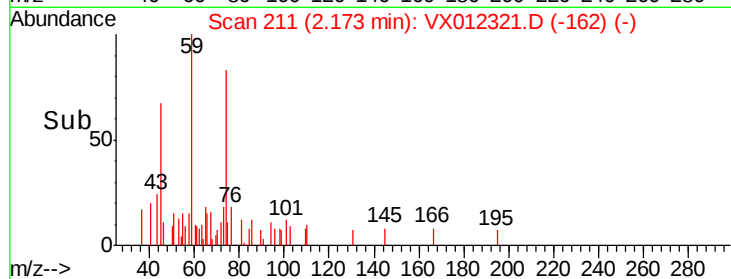
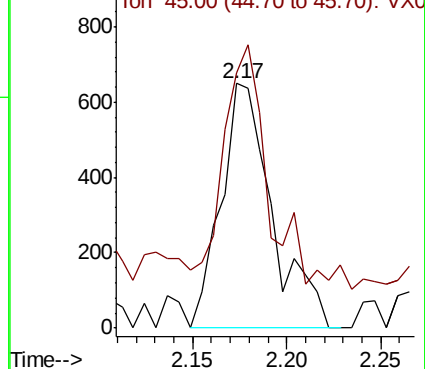
Ion Ratio Lower Upper

74 100

45 95.3 51.3 153.9



Abundance Ion 74.00 (73.70 to 74.70): VX0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX012321.D

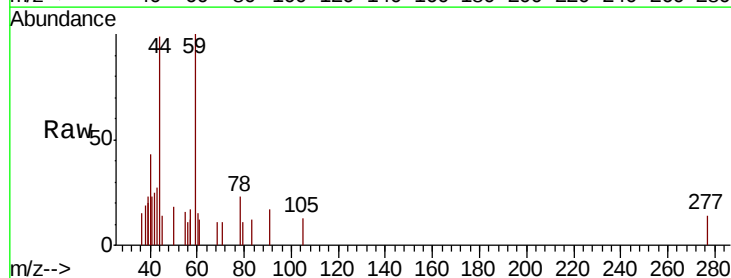
Acq: 12 Sep 2019 00:53

Tgt Ion: 59 Resp: 1288

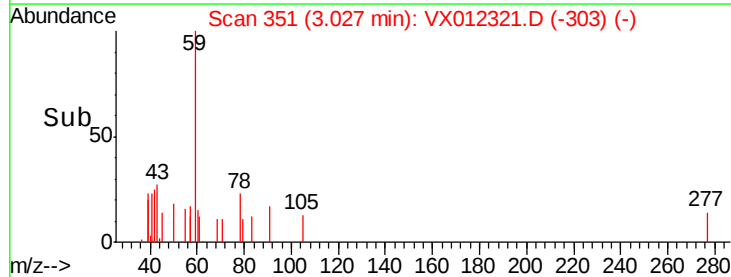
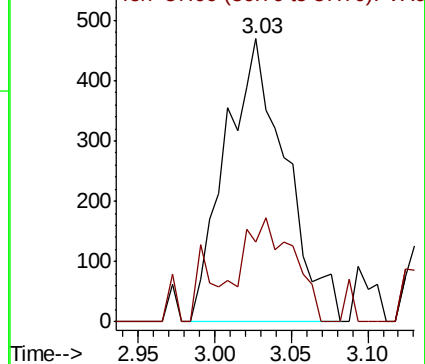
Ion Ratio Lower Upper

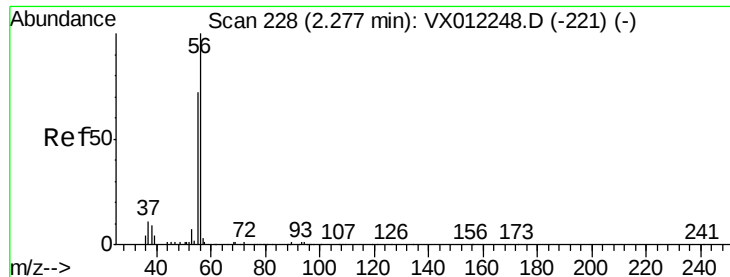
59 100

57 31.4 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0





#13

Acrolein

Concen: 3.192 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.00 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

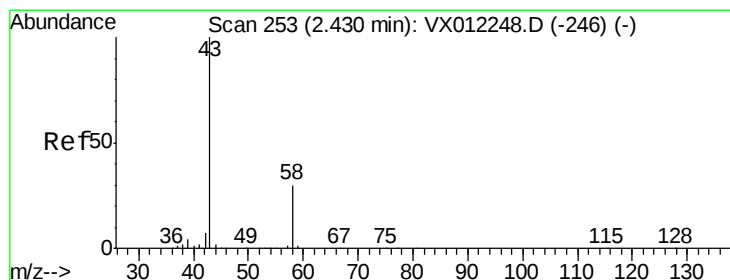
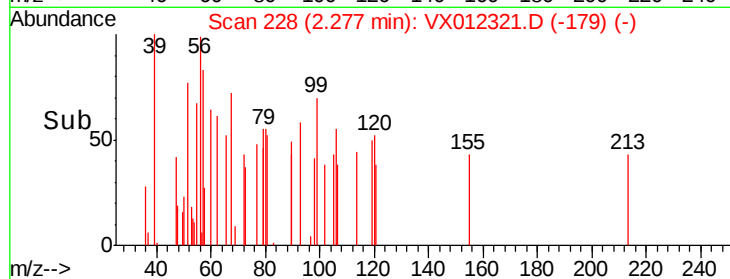
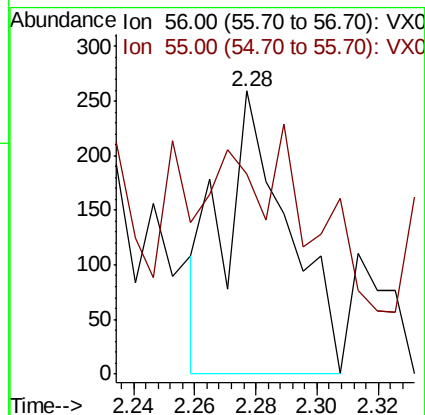
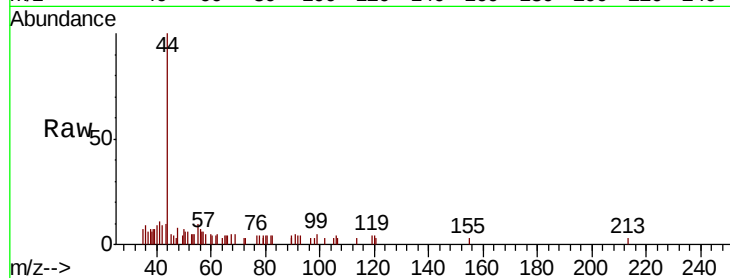
T1-2-(0)

Tgt Ion: 56 Resp: 381

Ion Ratio Lower Upper

56 100

55 0.0 59.8 89.6#



#16

Acetone

Concen: 2.908 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX012321.D

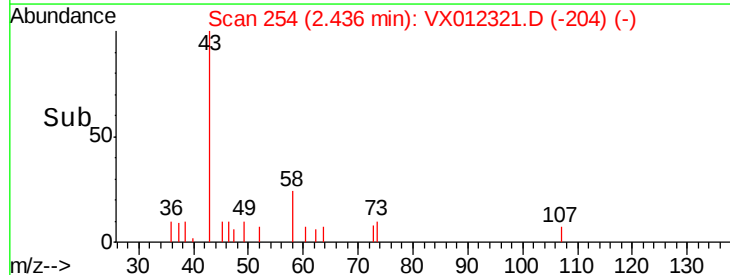
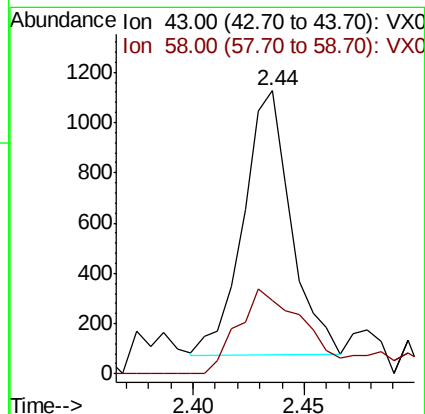
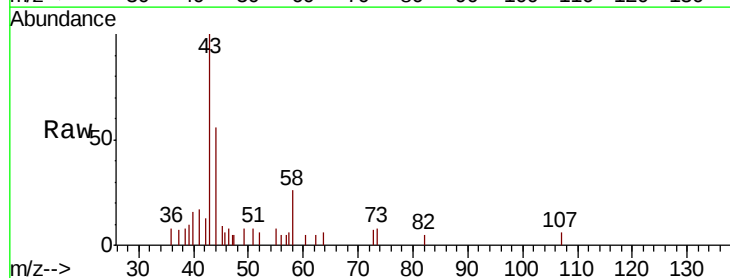
Acq: 12 Sep 2019 00:53

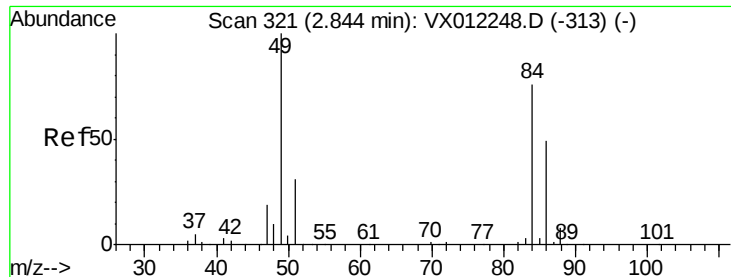
Tgt Ion: 43 Resp: 1572

Ion Ratio Lower Upper

43 100

58 28.0 23.6 35.4

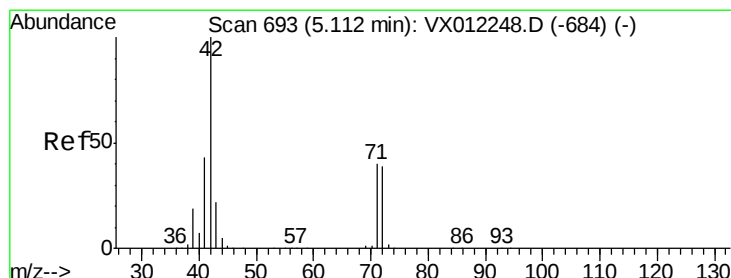
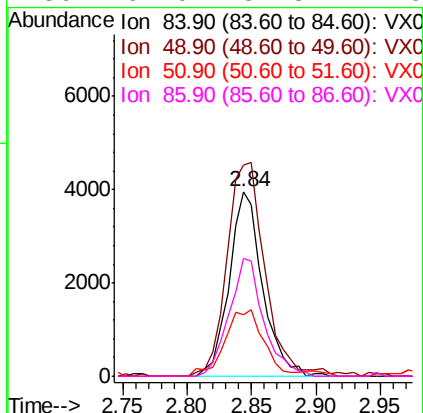
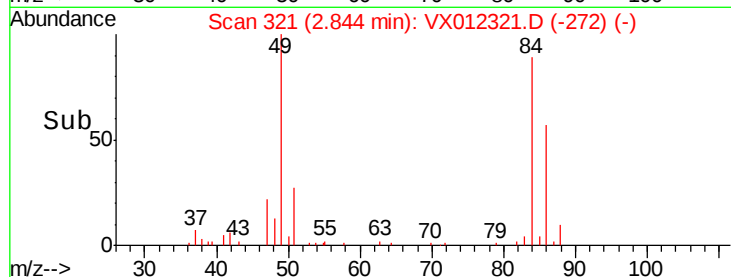
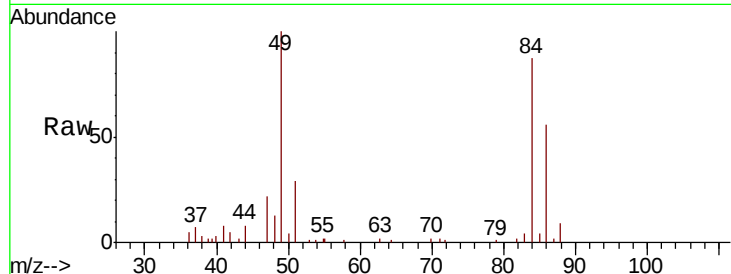




#20
Methylene Chloride
Concen: 1.683 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012321.D
Acq: 12 Sep 2019 00:53

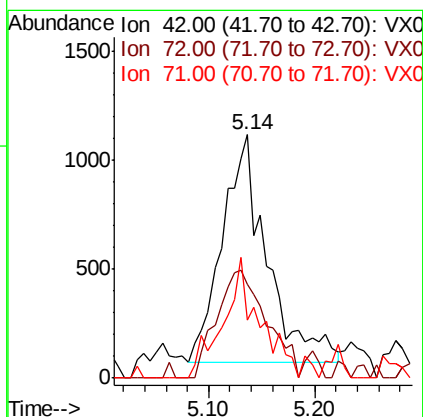
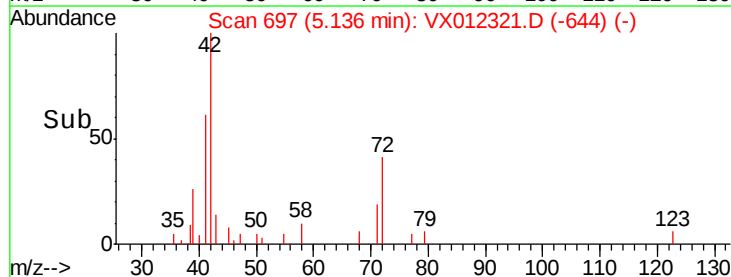
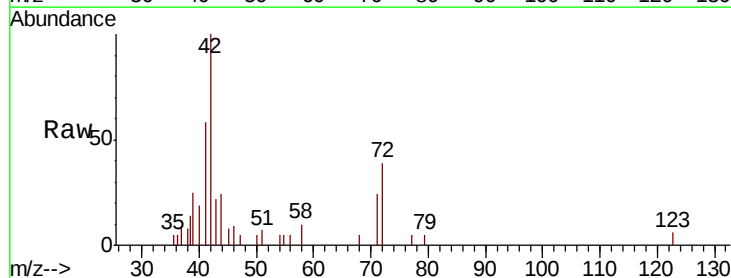
Instrument :
MSVOA_X
ClientSampleId :
T1-2-(0)

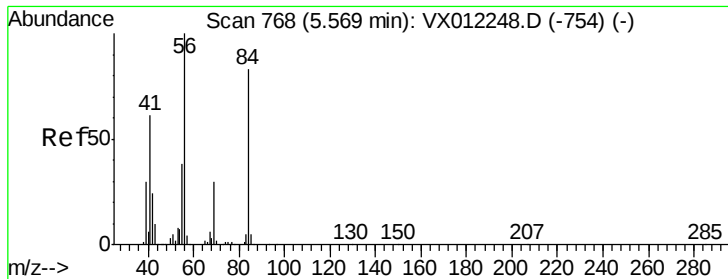
Tgt Ion:	84	Resp:	7131
Ion	Ratio	Lower	Upper
84	100		
49	112.6	105.0	157.6
51	33.6	32.6	48.8
86	64.0	51.8	77.6



#29
Tetrahydrofuran
Concen: 8.230 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX012321.D
Acq: 12 Sep 2019 00:53

Tgt Ion:	42	Resp:	3068
Ion	Ratio	Lower	Upper
42	100		
72	52.4	35.2	52.8
71	42.9	32.5	48.7





#31

Cyclohexane

Concen: 2.160 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

T1-2-(0)

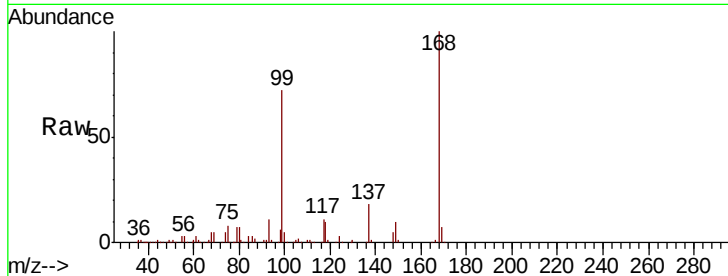
Tgt Ion: 56 Resp: 4580

Ion Ratio Lower Upper

56 100

69 162.6 23.8 35.6#

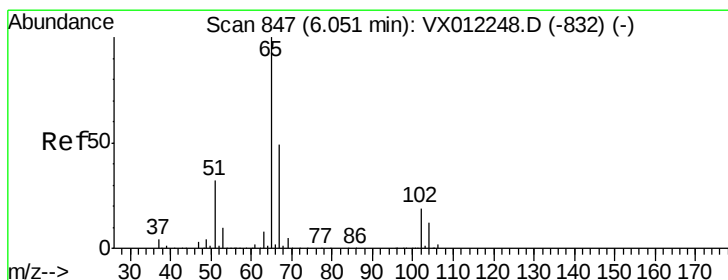
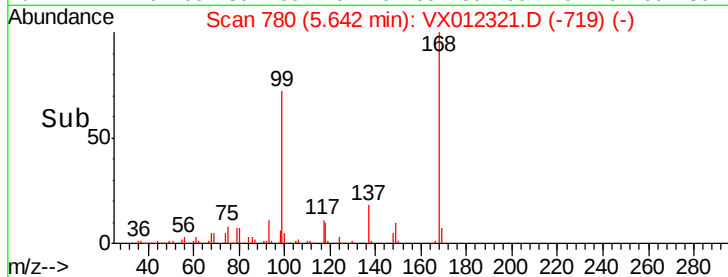
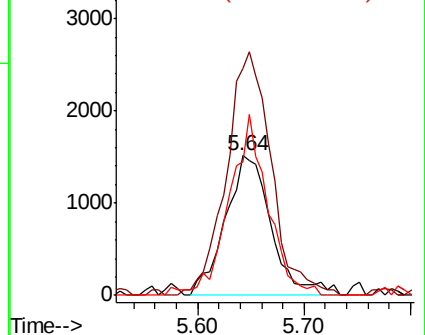
84 95.5 66.6 100.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.786 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012321.D

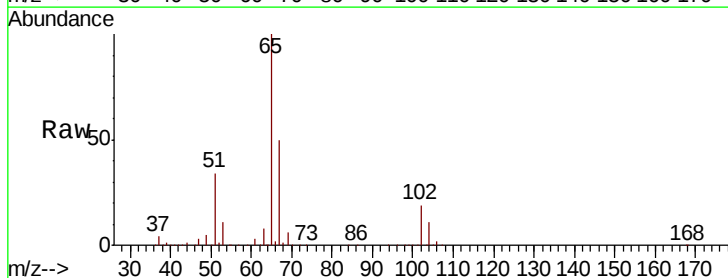
Acq: 12 Sep 2019 00:53

Tgt Ion: 65 Resp: 109104

Ion Ratio Lower Upper

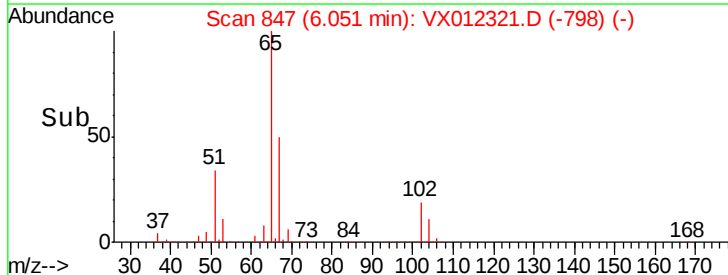
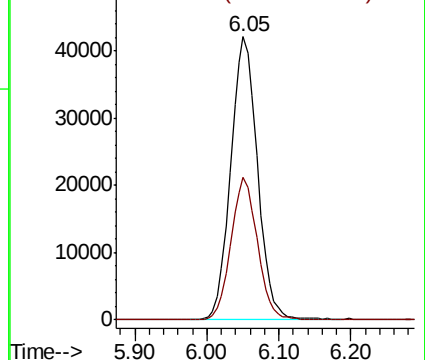
65 100

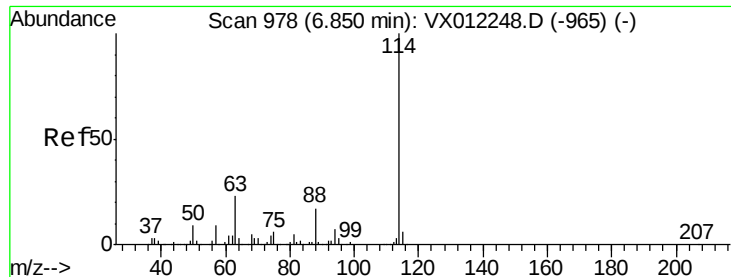
67 49.6 0.0 99.8



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: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

T1-2-(0)

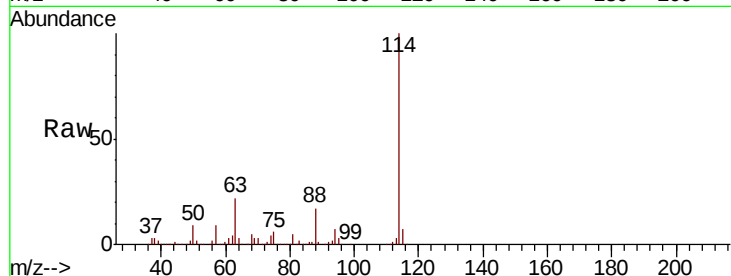
Tgt Ion:114 Resp: 274808

Ion Ratio Lower Upper

114 100

63 21.6 0.0 45.2

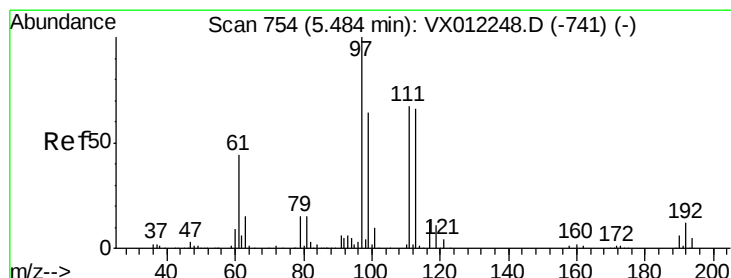
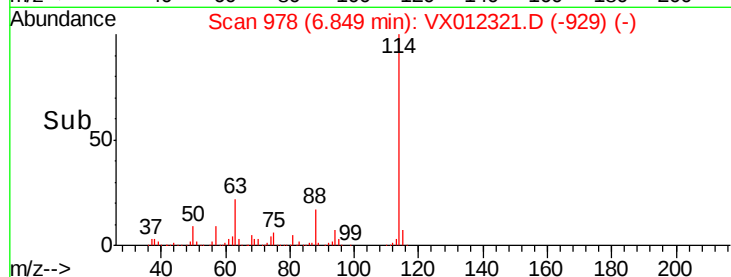
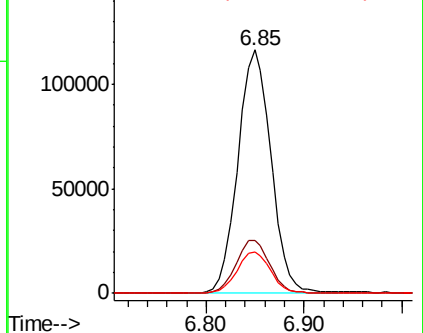
88 17.2 0.0 34.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.923 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

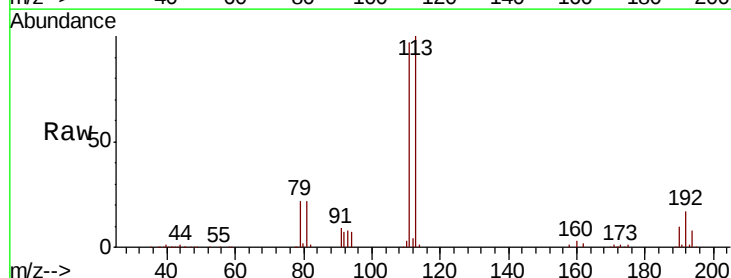
Tgt Ion:113 Resp: 82662

Ion Ratio Lower Upper

113 100

111 101.8 83.0 124.6

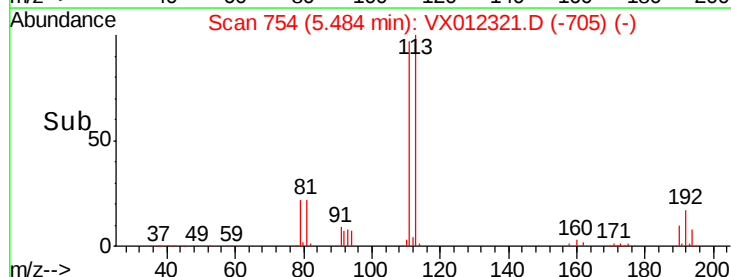
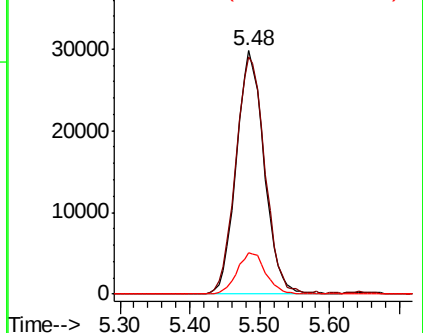
192 17.4 14.3 21.5

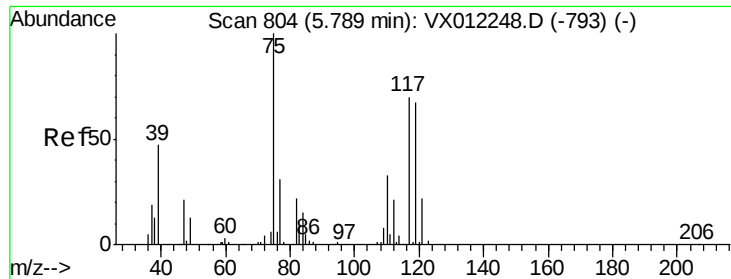


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

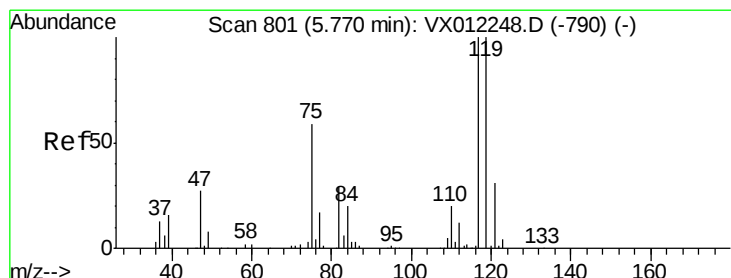
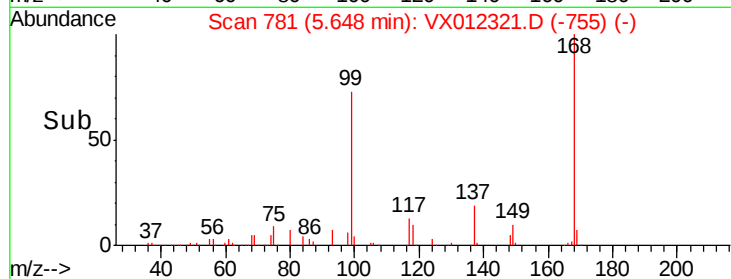
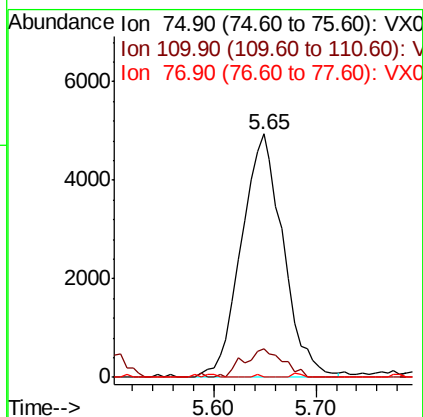
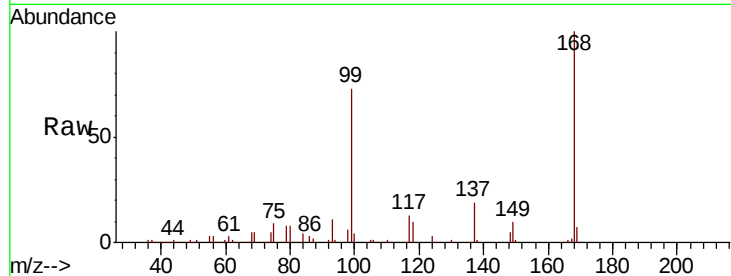




#36
 1,1-Dichloropropene
 Concen: 7.003 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012321.D
 Acq: 12 Sep 2019 00:53

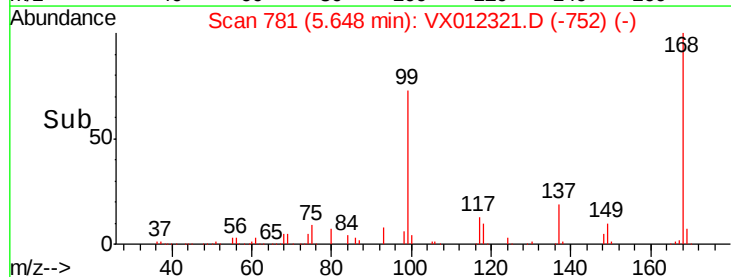
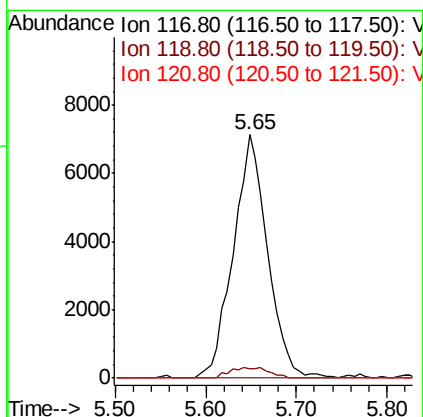
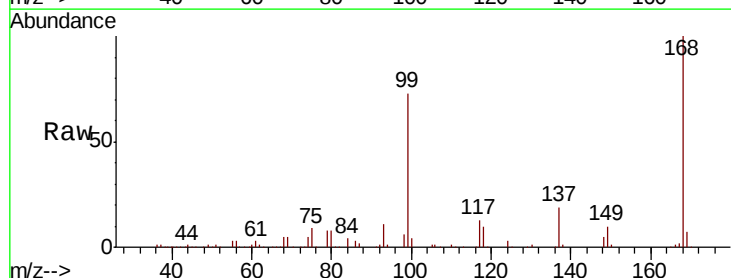
Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-(0)

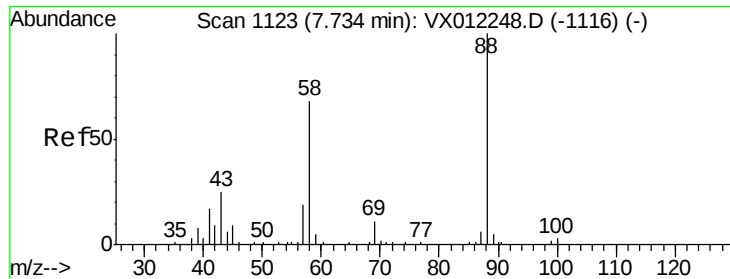
Tgt Ion: 75 Resp: 14033
 Ion Ratio Lower Upper
 75 100
 110 11.0 16.8 50.4#
 77 0.2 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 7.968 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.12 min
 Lab File: VX012321.D
 Acq: 12 Sep 2019 00:53

Tgt Ion: 117 Resp: 18732
 Ion Ratio Lower Upper
 117 100
 119 3.9 79.6 119.4#
 121 0.0 24.7 37.1#

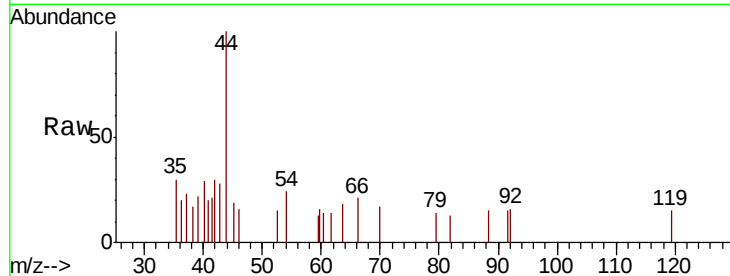




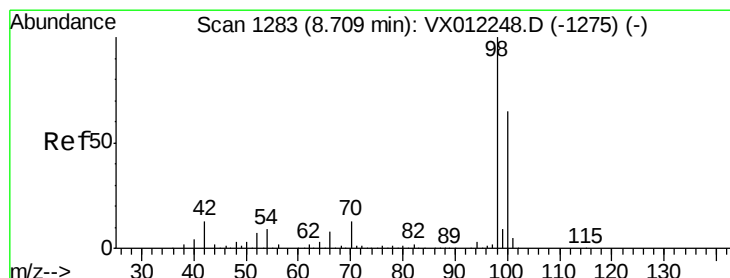
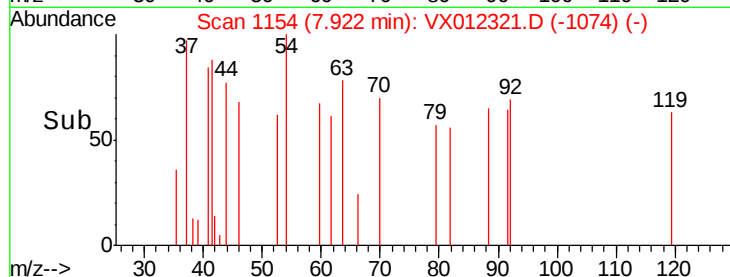
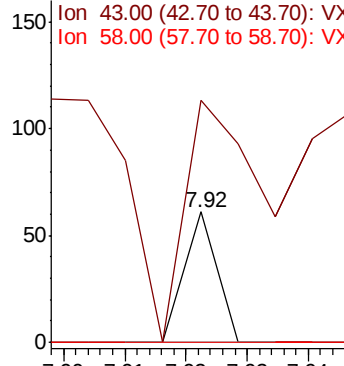
#49
1,4-Dioxane
Concen: 1.304 ug/l
RT: 7.92 min Scan# 1154
Delta R.T. 0.19 min
Lab File: VX012321.D
Acq: 12 Sep 2019 00:53

Instrument :
MSVOA_X
ClientSampleId :
T1-2-(0)

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 440.9 31.0 46.4#
58 0.0 61.5 92.3#

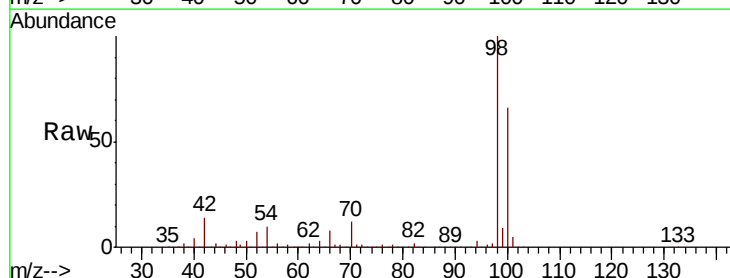


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

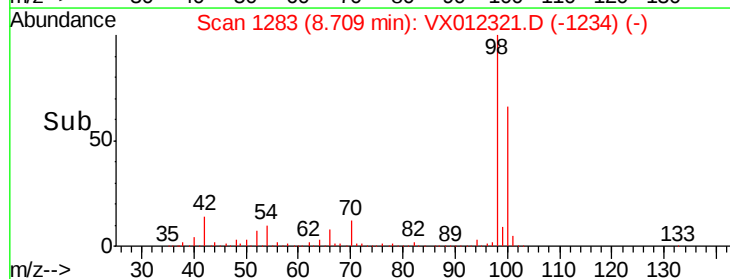
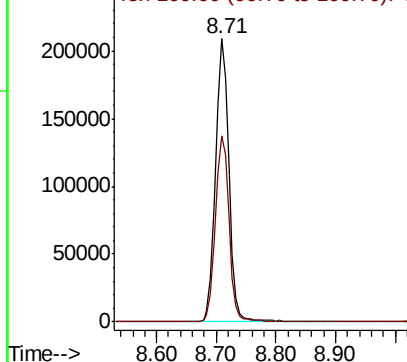


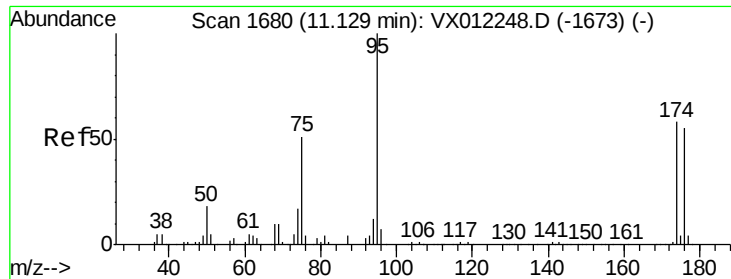
#50
Toluene-d8
Concen: 51.958 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012321.D
Acq: 12 Sep 2019 00:53

Tgt Ion: 98 Resp: 321030
Ion Ratio Lower Upper
98 100
100 66.8 54.1 81.1



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 40.535 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

T1-2-(0)

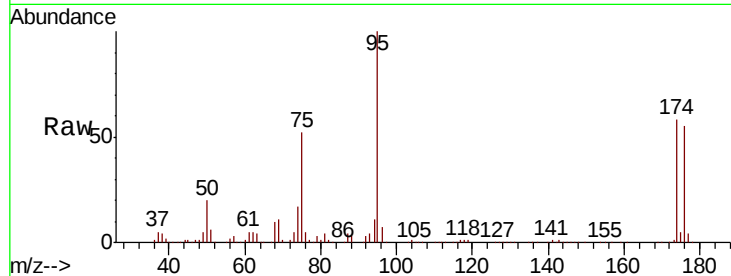
Tgt Ion: 95 Resp: 116110

Ion Ratio Lower Upper

95 100

174 67.2 0.0 127.0

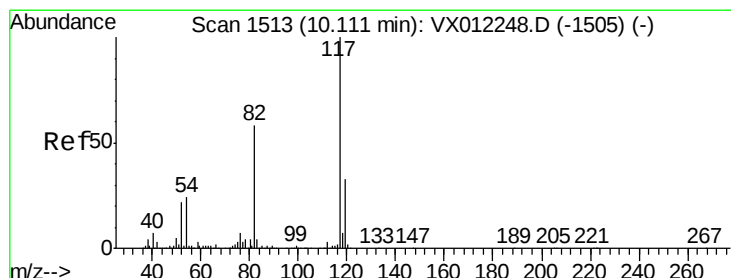
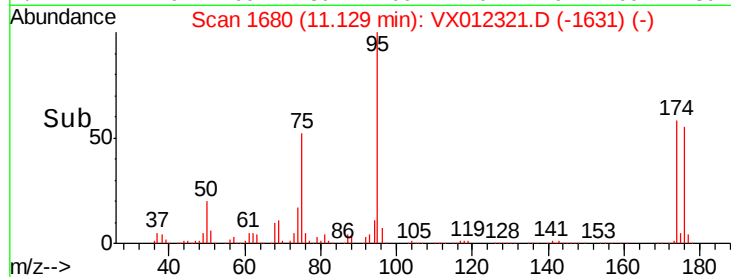
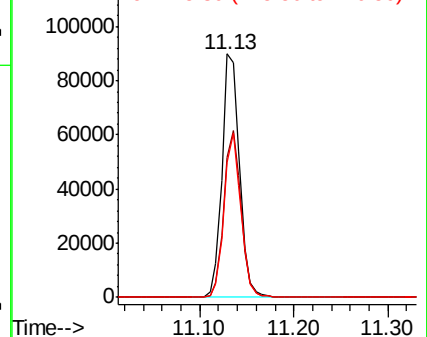
176 64.6 0.0 125.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

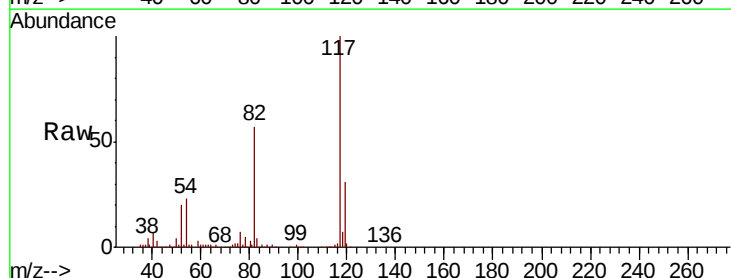
Tgt Ion: 117 Resp: 235511

Ion Ratio Lower Upper

117 100

82 56.5 46.4 69.6

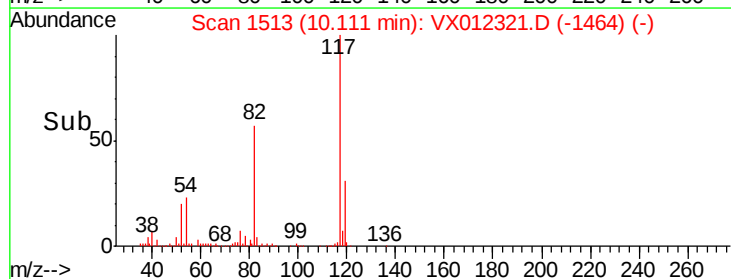
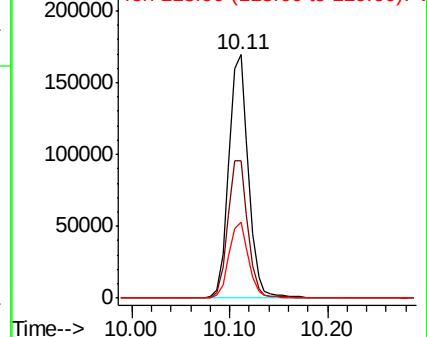
119 31.3 26.6 39.8

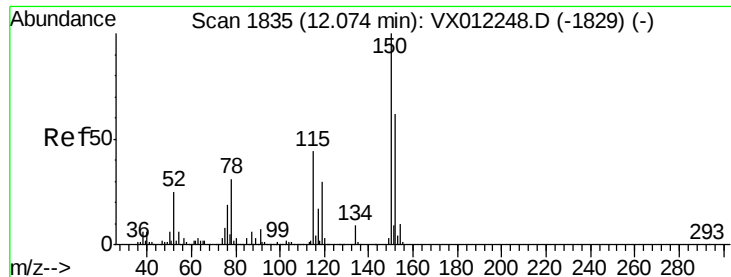


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

T1-2-(0)

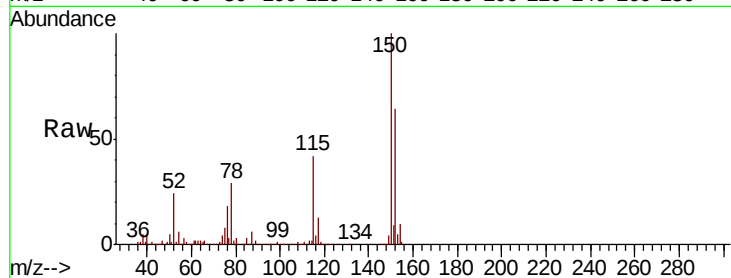
Tgt Ion:152 Resp: 90388

Ion Ratio Lower Upper

152 100

115 65.6 45.5 136.4

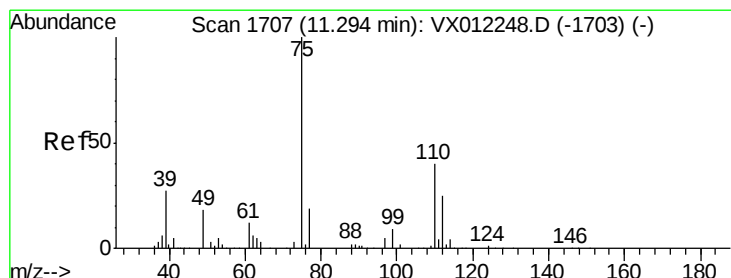
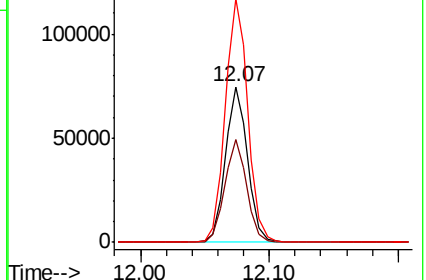
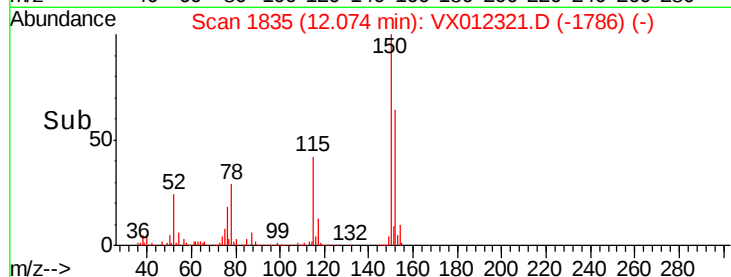
150 158.5 0.0 346.4



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: 53.010 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012321.D

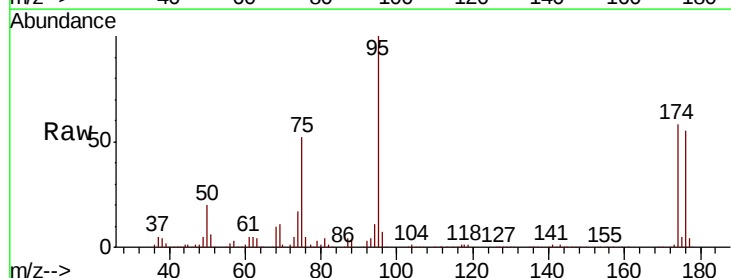
Acq: 12 Sep 2019 00:53

Tgt Ion: 75 Resp: 61553

Ion Ratio Lower Upper

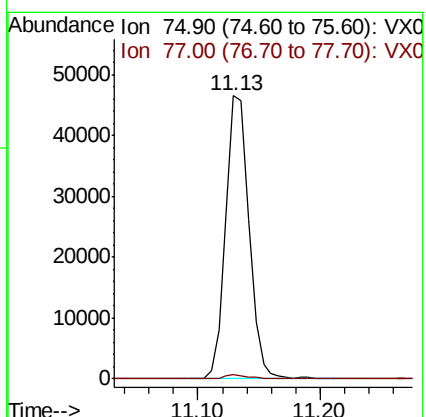
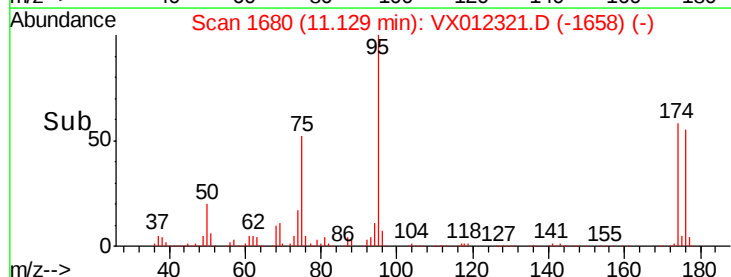
75 100

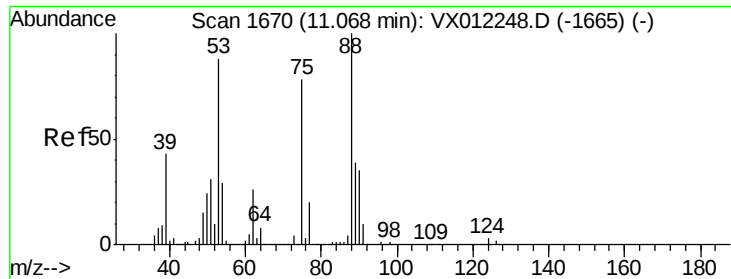
77 1.5 19.7 59.0#



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: 158.829 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012321.D

Acq: 12 Sep 2019 00:53

Instrument :

MSVOA_X

ClientSampleId :

T1-2-(0)

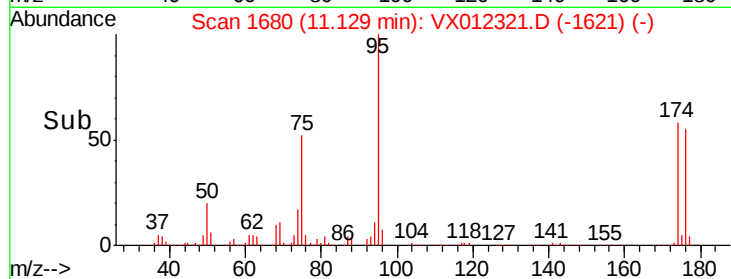
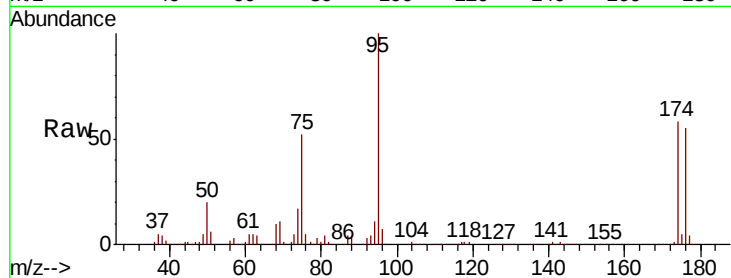
Tgt Ion: 75 Resp: 61553

Ion Ratio Lower Upper

75 100

53 0.0 88.1 132.1#

89 0.0 43.5 65.3#



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

