

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112619\
 Data File : VX013621.D
 Acq On : 27 Nov 2019 00:46
 Operator : JC/SP
 Sample : K5962-01 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 27 03:47:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	681076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1093467	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	963345	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	441533	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	393651	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
35) Dibromofluoromethane	5.49	113	325718	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	8.71	98	1293124	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	11.14	95	435077	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

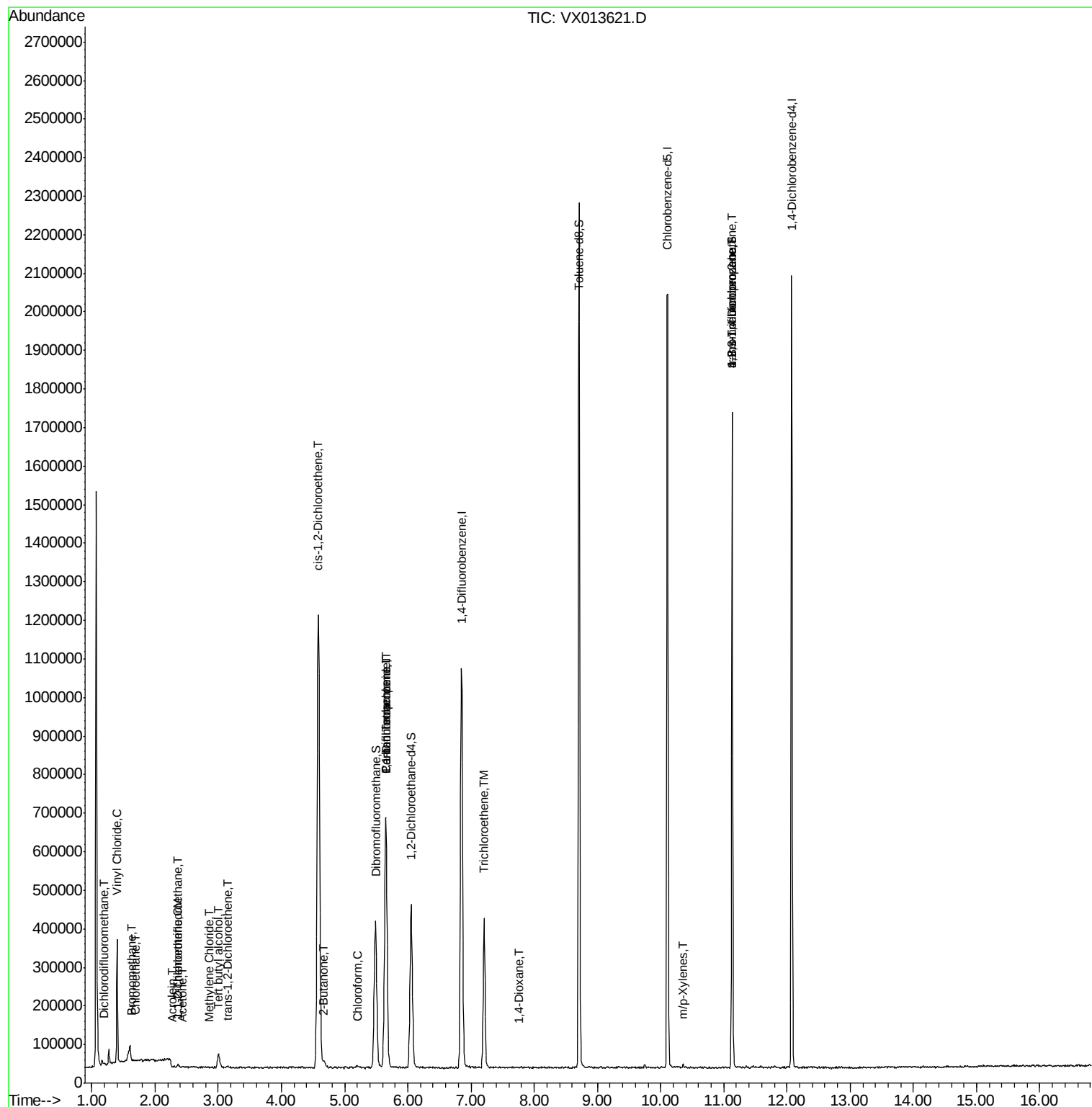
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	3558	0.469	ug/l	94
4) Vinyl Chloride	1.40	62	189464	19.790	ug/l	98
5) Bromomethane	1.64	94	1395	0.217	ug/l	85
6) Chloroethane	1.69	64	1366	0.251	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	2.36	101	1473	0.227	ug/l #	14
11) Tert butyl alcohol	3.01	59	24462	12.536	ug/l #	89
12) 1,1-Dichloroethene	2.37	96	2807	0.433	ug/l #	75
13) Acrolein	2.28	56	785	6.591	ug/l #	57
16) Acetone	2.43	43	3257	0.834	ug/l	93
20) Methylene Chloride	2.85	84	1556	0.208	ug/l #	64
21) trans-1,2-Dichloroethene	3.16	96	2644	0.374	ug/l	94
25) 2-Butanone	4.67	43	2015	0.347	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	765577	94.413	ug/l	89
30) Chloroform	5.19	83	3983	0.317	ug/l #	84
36) 1,1-Dichloropropene	5.65	75	46578	4.693	ug/l #	51
38) Carbon Tetrachloride	5.65	117	60222	6.580	ug/l #	18
44) Trichloroethene	7.21	130	157681	19.005	ug/l	95
49) 1,4-Dioxane	7.75	88	359	1.801	ug/l #	1
68) m/p-Xylenes	10.36	106	2985	0.227	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	216839	21.835	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	216839	59.736	ug/l #	11

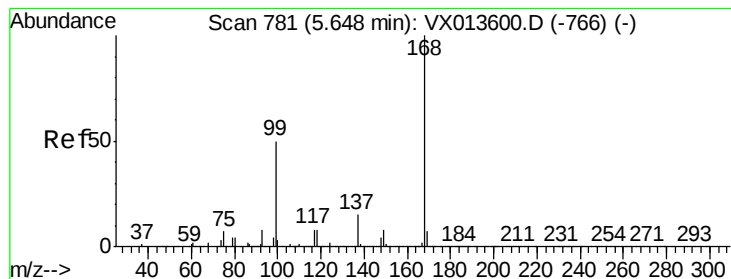
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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: VX013621.D

Acq: 27 Nov 2019 00:46

Instrument :

MSVOA_X

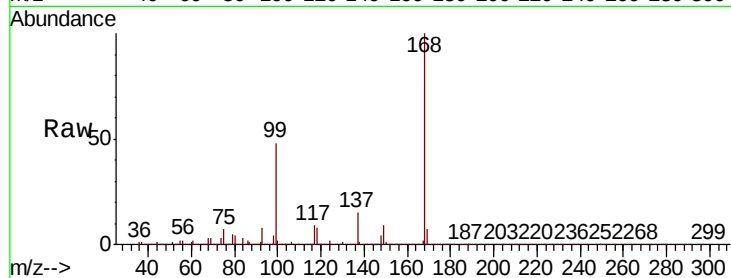
ClientSampleId :

Tot Ion:168 Resp: 681076

Ion Ratio Lower Upper

168 100

99 48.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

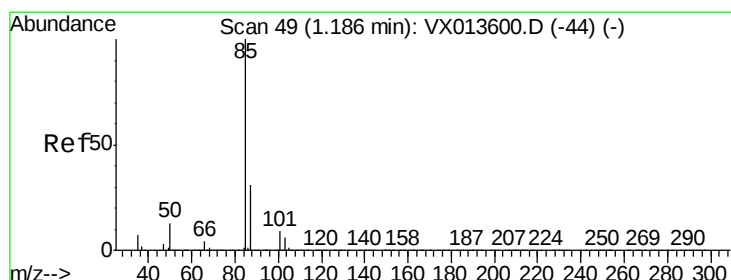
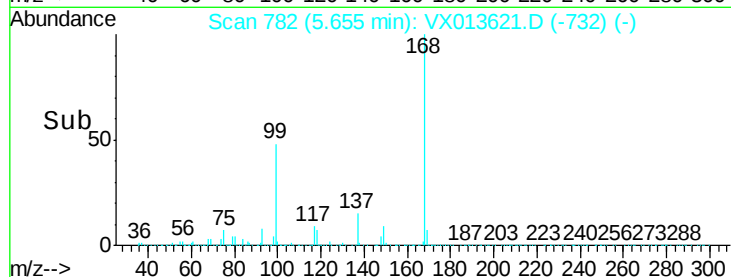
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.469 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013621.D

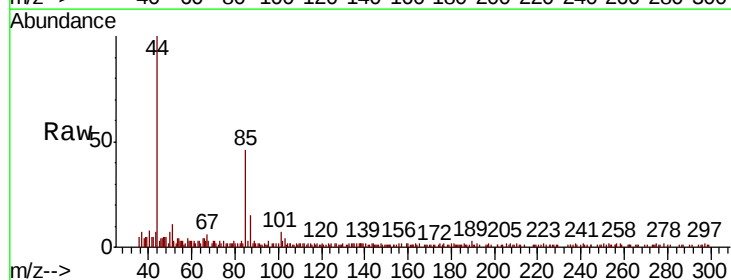
Acq: 27 Nov 2019 00:46

Tgt Ion: 85 Resp: 3558

Ion Ratio Lower Upper

85 100

87 28.3 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

4000

3000

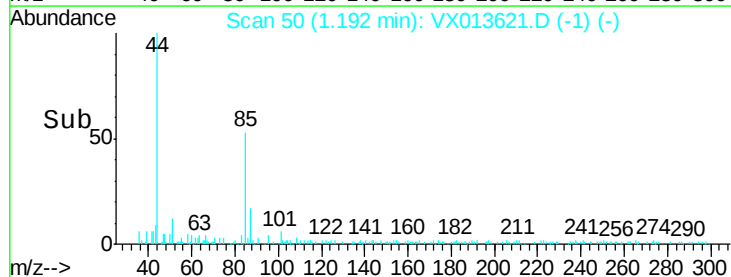
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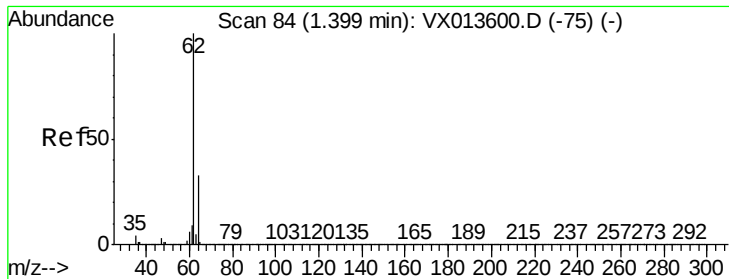
1000

0

Time-->

1.16 1.18 1.20 1.22 1.24





#4

Vinyl Chloride

Concen: 19.790 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

Instrument :

MSVOA_X

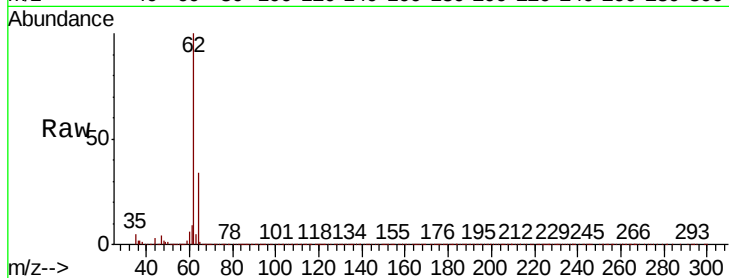
ClientSampleId :

Tot Ion: 62 Resp: 189464

Ion Ratio Lower Upper

62 100

64 33.4 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

200000

150000

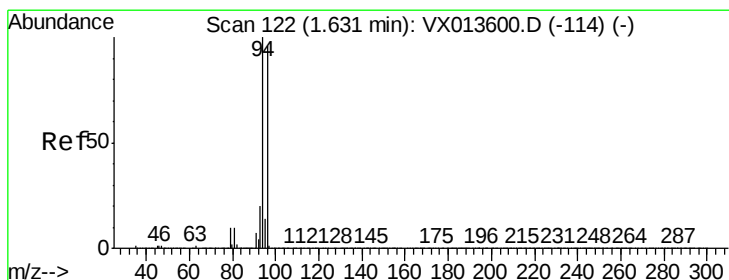
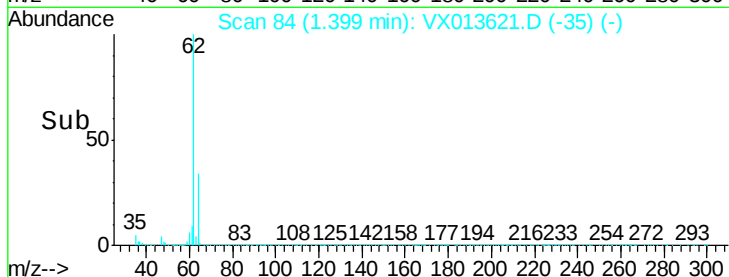
100000

50000

0

1.35 1.40 1.45 1.50

Time-->



#5

Bromomethane

Concen: 0.217 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013621.D

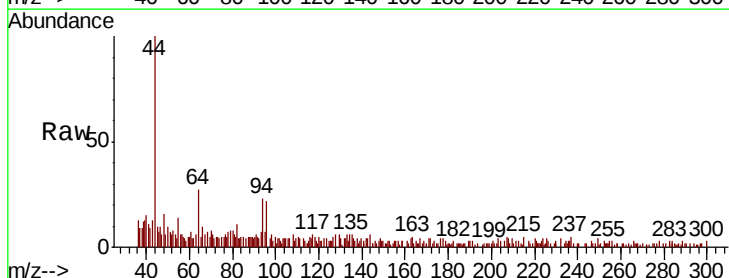
Acq: 27 Nov 2019 00:46

Tgt Ion: 94 Resp: 1395

Ion Ratio Lower Upper

94 100

96 111.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

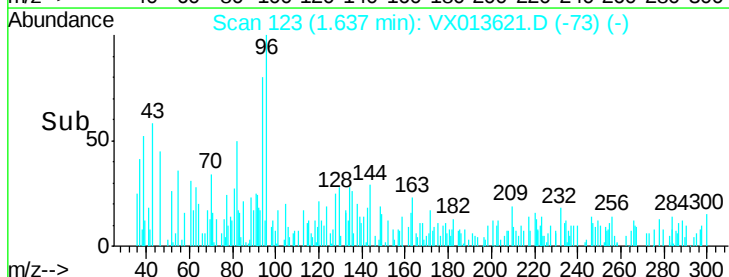
400

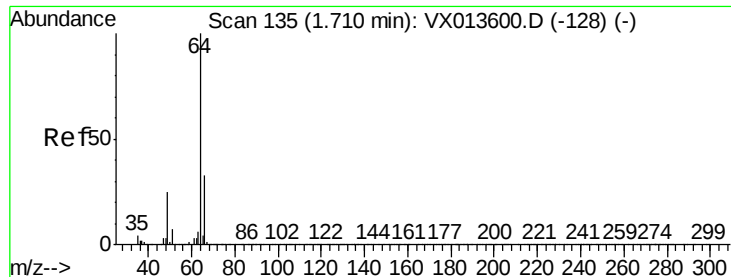
200

0

1.60 1.62 1.64 1.66

Time-->





#6

Chloroethane

Concen: 0.251 ug/l

RT: 1.69 min Scan# 132

Delta R.T. -0.02 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

Instrument :

MSVOA_X

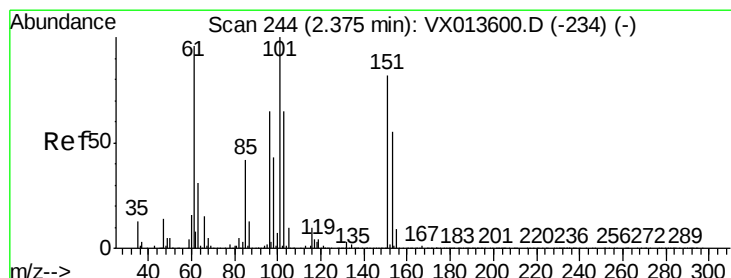
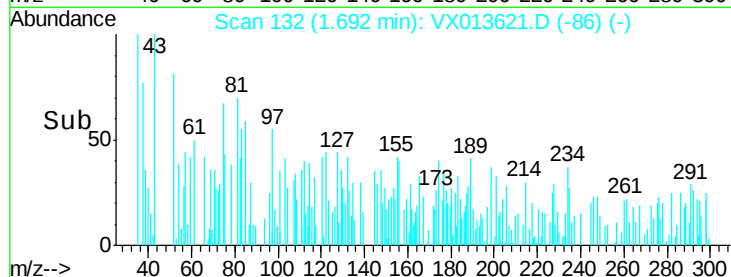
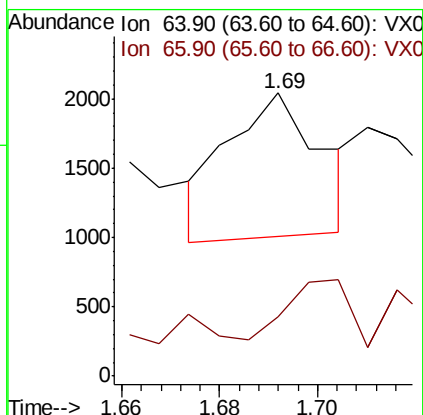
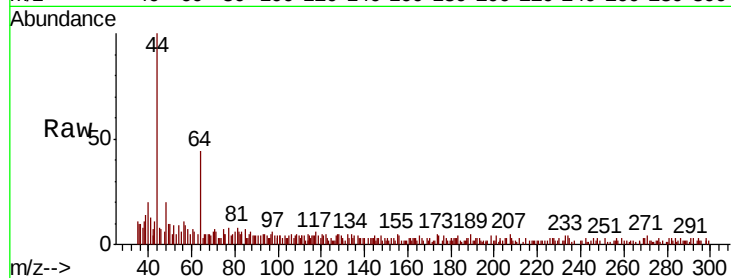
ClientSampled :

Tot Ion: 64 Resp: 1366

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.227 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.01 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

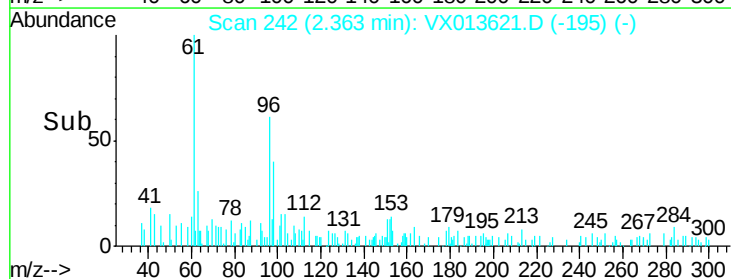
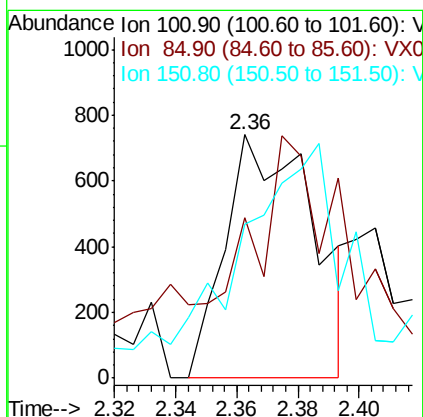
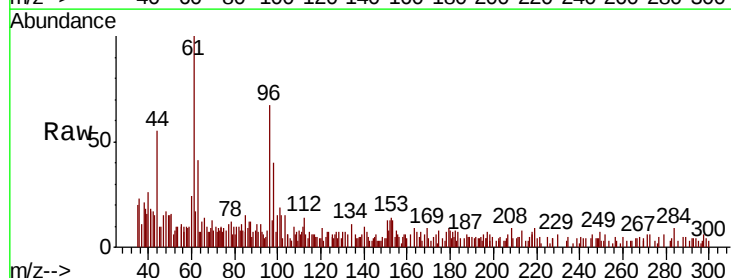
Tgt Ion: 101 Resp: 1473

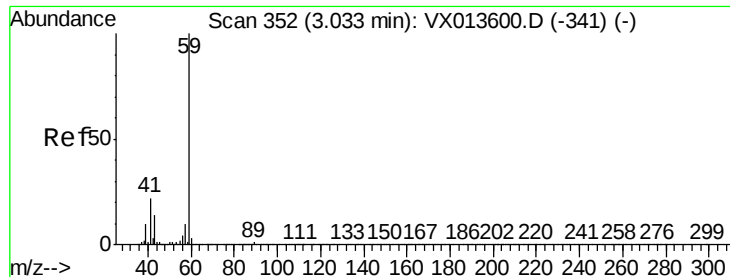
Ion Ratio Lower Upper

101 100

85 91.8 33.9 50.9#

151 0.0 64.2 96.2#

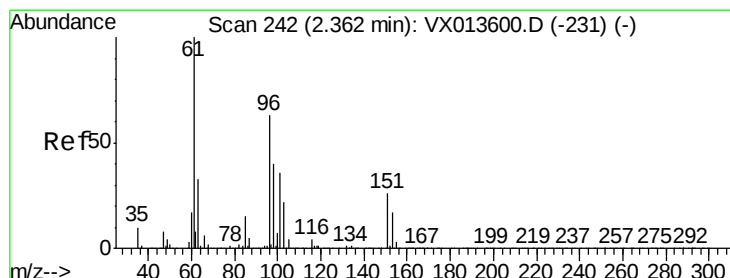
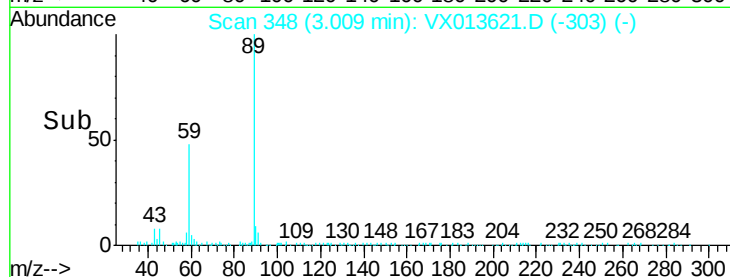
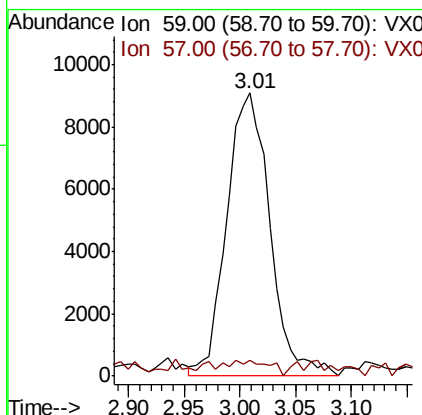
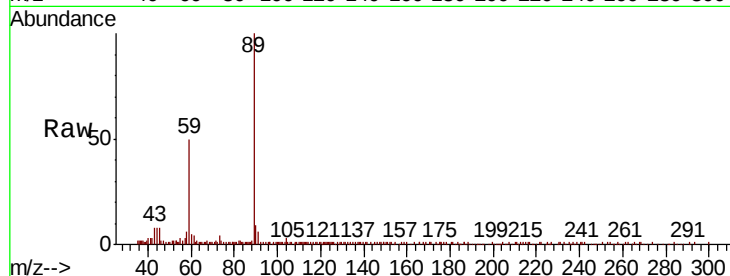




#11
Tert butyl alcohol
Concen: 12.536 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

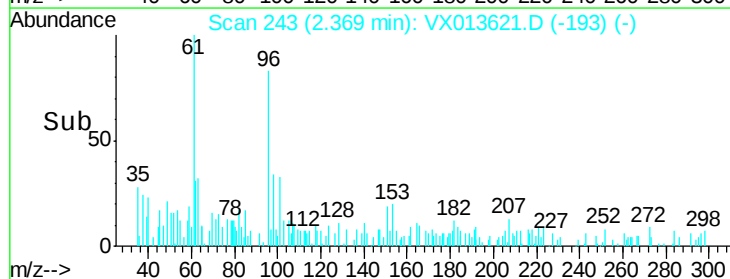
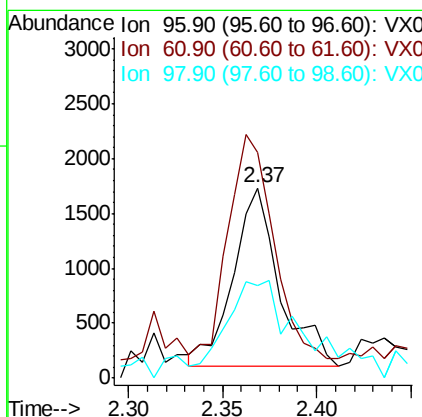
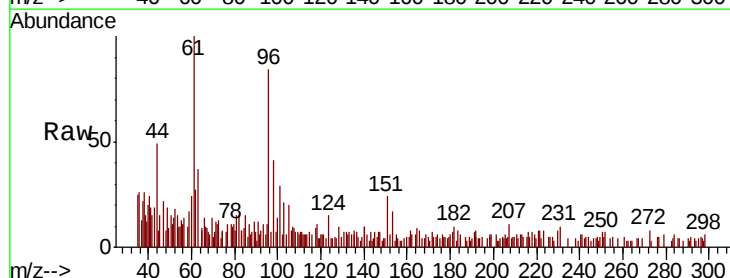
Instrument :
MSVOA_X
ClientSampled :

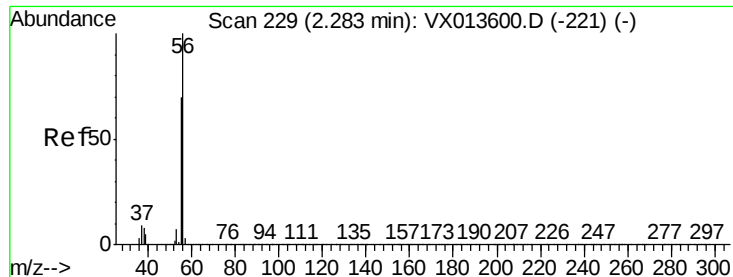
Tot Ion: 59 Resp: 24462
Ion Ratio Lower Upper
59 100
57 5.5 7.8 11.6#



#12
1,1-Dichloroethene
Concen: 0.433 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

Tgt Ion: 96 Resp: 2807
Ion Ratio Lower Upper
96 100
61 123.2 126.6 190.0#
98 47.9 50.6 76.0#





#13

Acrolein

Concen: 6.591 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

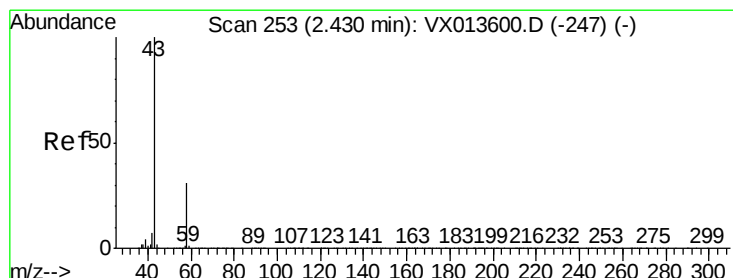
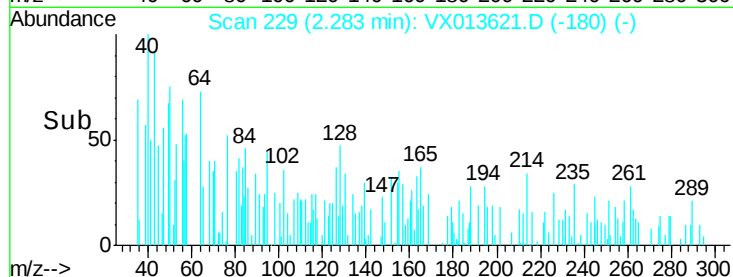
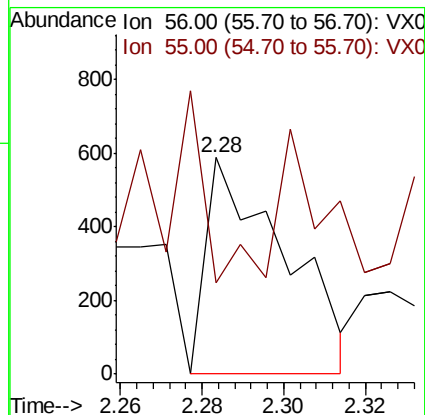
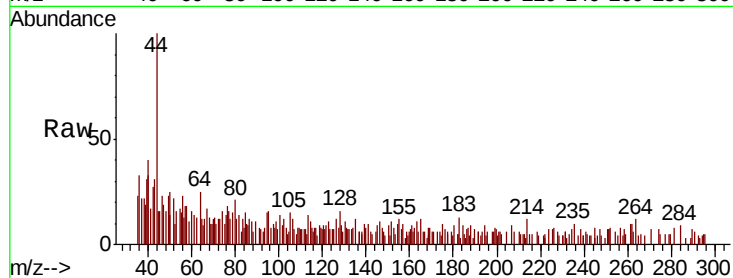
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 785

Ion Ratio Lower Upper

56 100

55 35.0 56.2 84.4#



#16

Acetone

Concen: 0.834 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013621.D

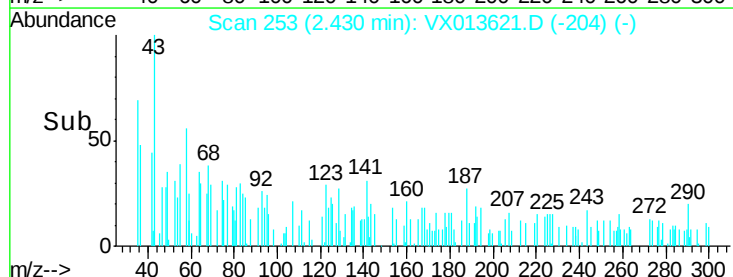
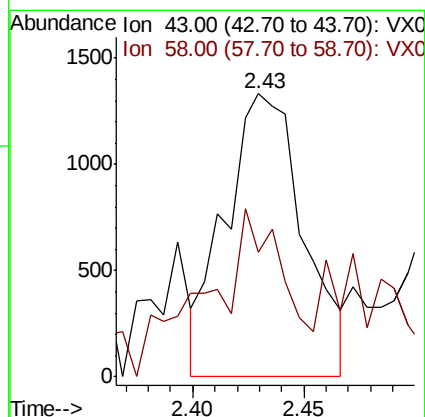
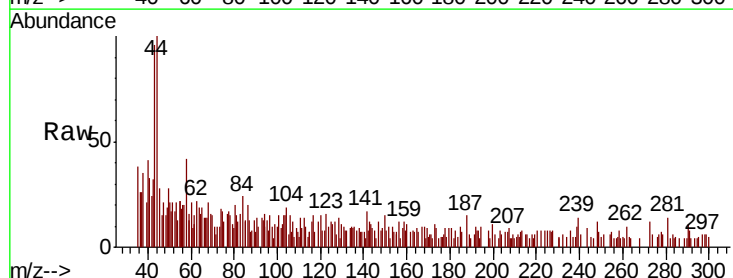
Acq: 27 Nov 2019 00:46

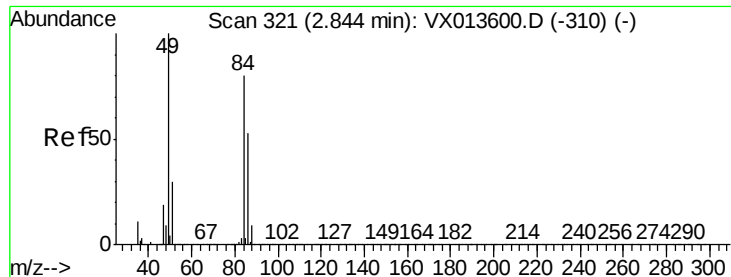
Tgt Ion: 43 Resp: 3257

Ion Ratio Lower Upper

43 100

58 26.8 24.6 36.8

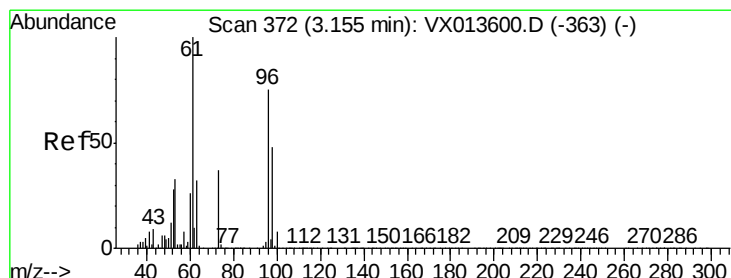
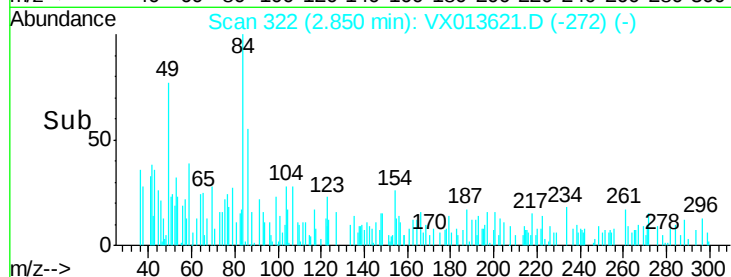
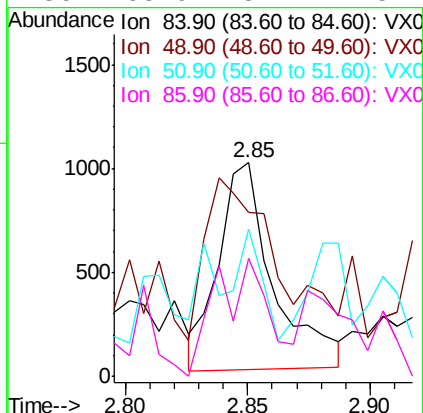
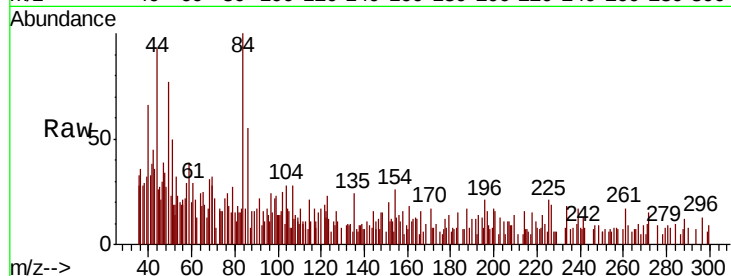




#20
Methylene Chloride
Concen: 0.208 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

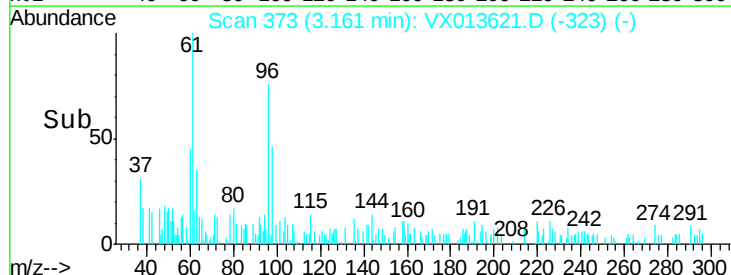
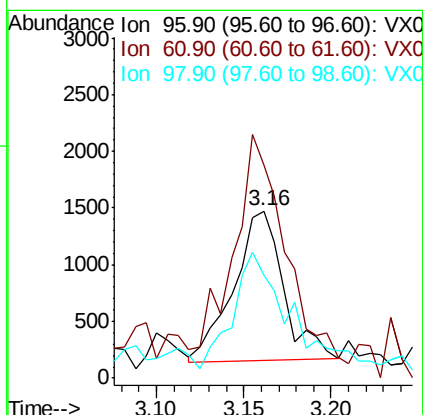
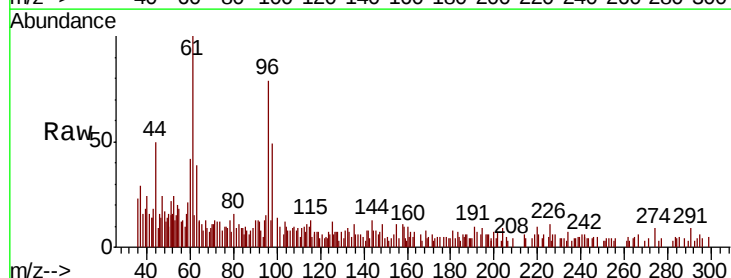
Instrument :
MSVOA_X
ClientSampled :

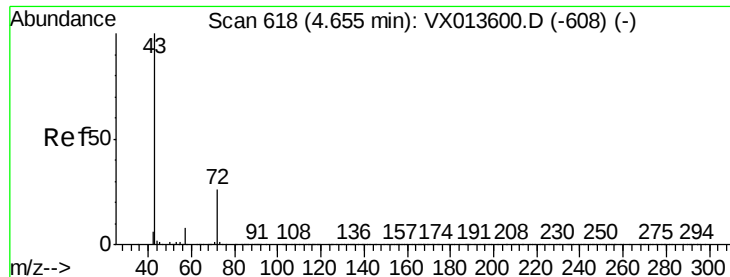
Tot Ion: 84 Resp: 1556
Ion Ratio Lower Upper
84 100
49 57.9 99.7 149.5#
51 50.5 29.9 44.9#
86 65.9 52.2 78.4



#21
trans-1,2-Dichloroethene
Concen: 0.374 ug/l
RT: 3.16 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

Tgt Ion: 96 Resp: 2644
Ion Ratio Lower Upper
96 100
61 129.8 107.2 160.8
98 54.5 51.4 77.0





#25

2-Butanone

Concen: 0.347 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

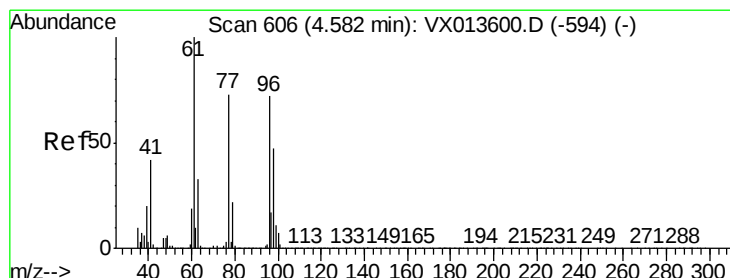
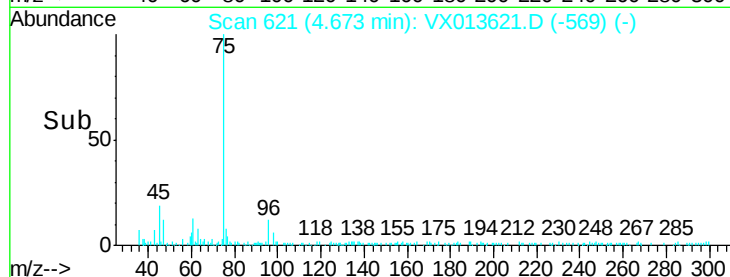
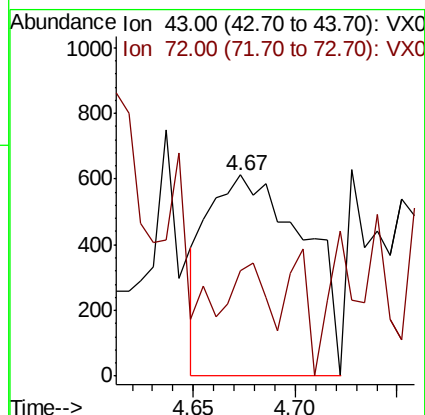
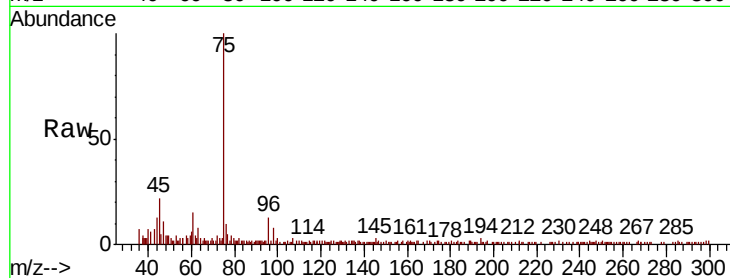
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 2015

Ion Ratio Lower Upper

43 100

72 24.3 20.6 31.0



#27

cis-1,2-Dichloroethene

Concen: 94.413 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

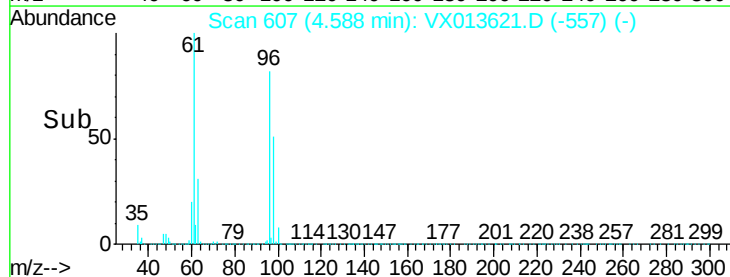
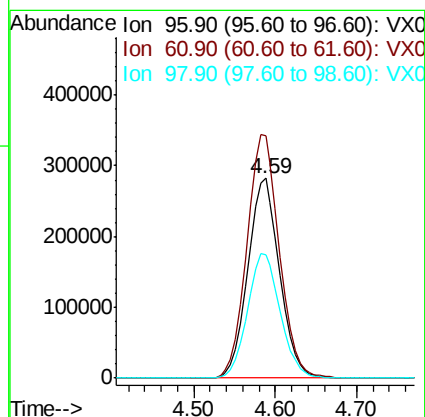
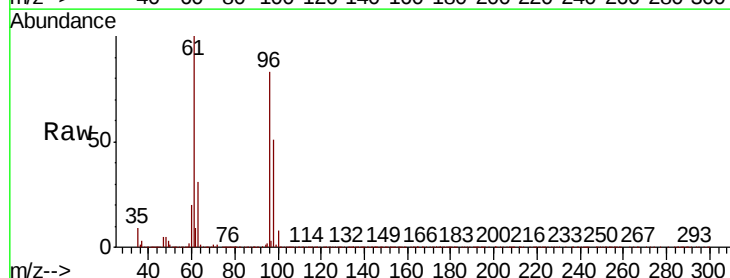
Tgt Ion: 96 Resp: 765577

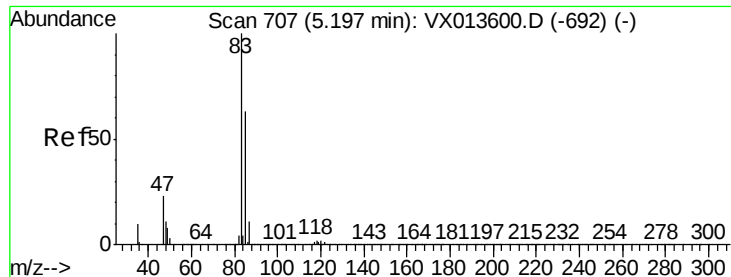
Ion Ratio Lower Upper

96 100

61 124.1 0.0 286.4

98 64.0 0.0 127.4

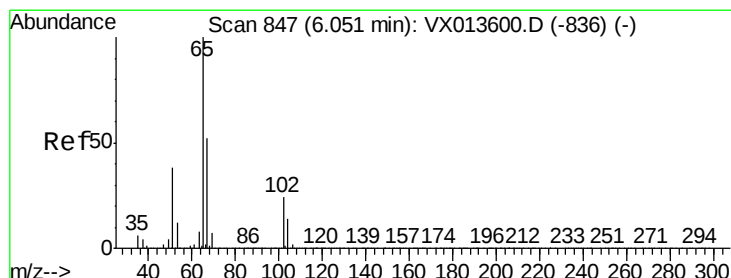
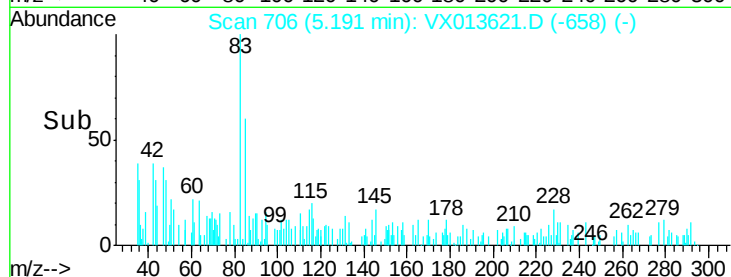
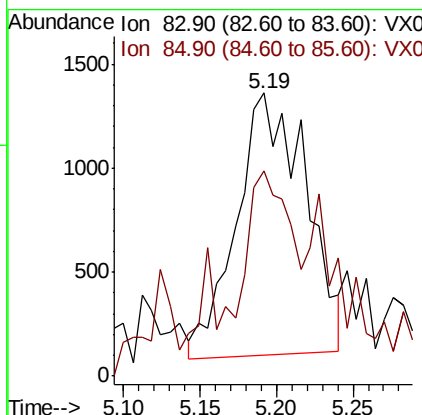
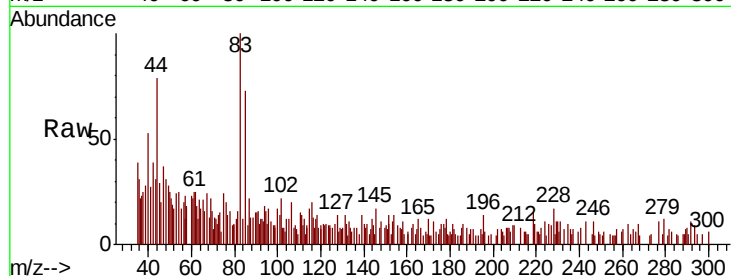




#30
Chloroform
Concen: 0.317 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

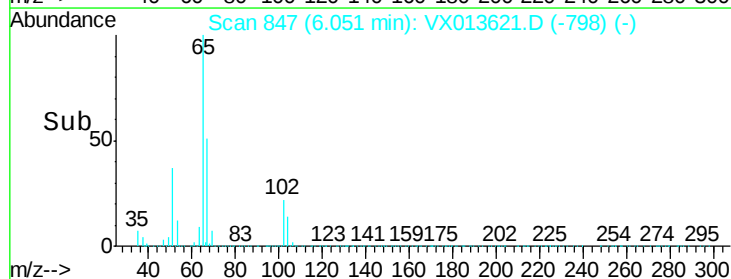
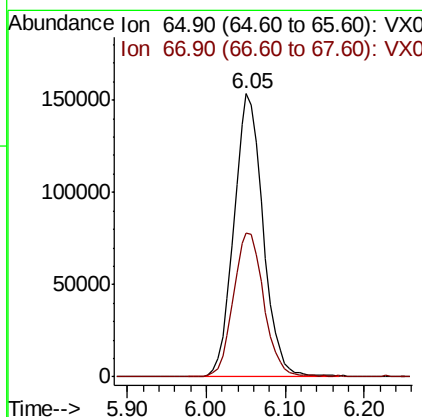
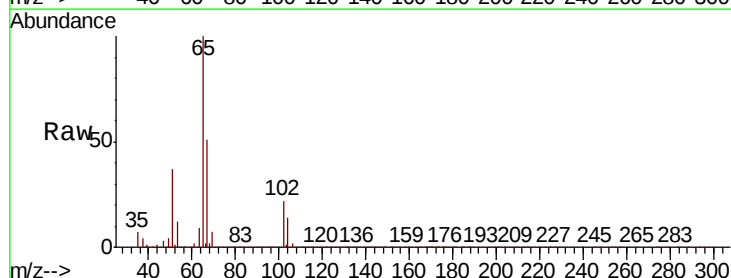
Instrument :
MSVOA_X
ClientSampleId :

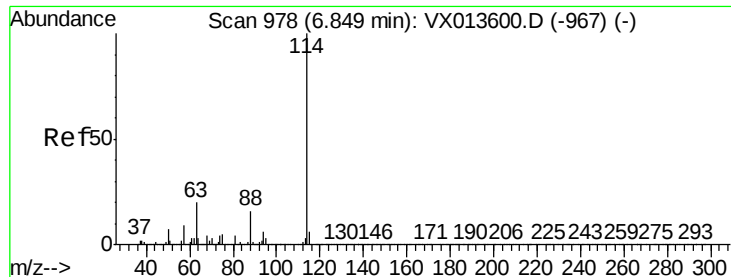
Tot Ion: 83 Resp: 3983
Ion Ratio Lower Upper
83 100
85 75.6 50.2 75.4#



#33
1,2-Dichloroethane-d4
Concen: 49.793 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

Tgt Ion: 65 Resp: 393651
Ion Ratio Lower Upper
65 100
67 52.7 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

Instrument :

MSVOA_X

ClientSampleId :

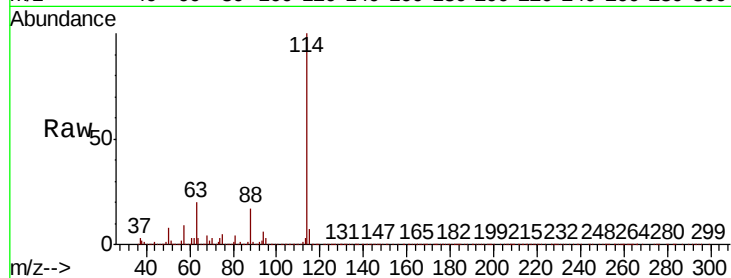
Tot Ion:114 Resp: 1093467

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

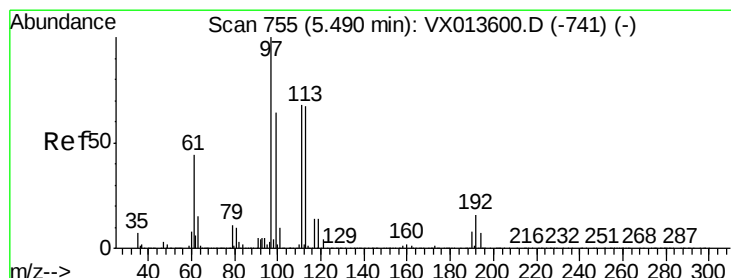
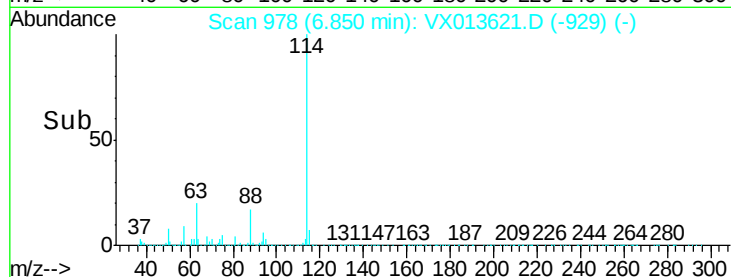
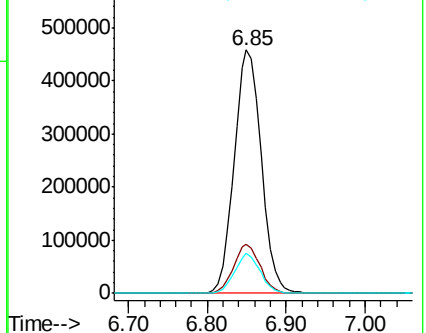
88 16.7 0.0 31.4



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: 48.184 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

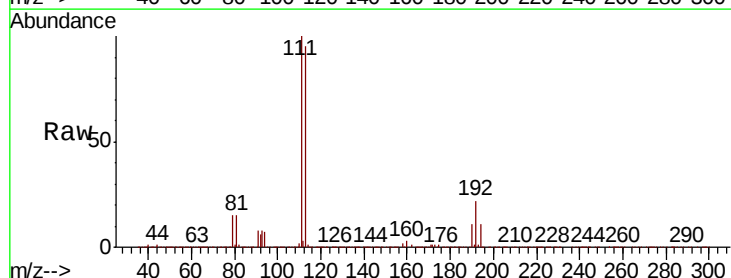
Tgt Ion:113 Resp: 325718

Ion Ratio Lower Upper

113 100

111 103.1 83.6 125.4

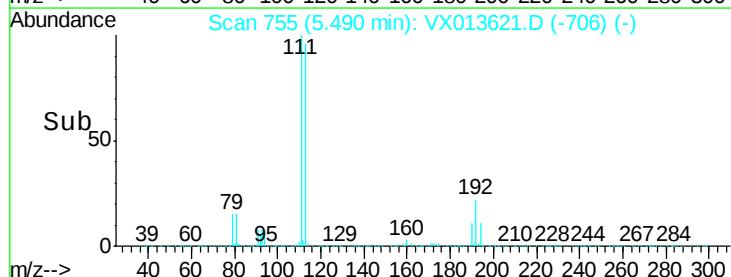
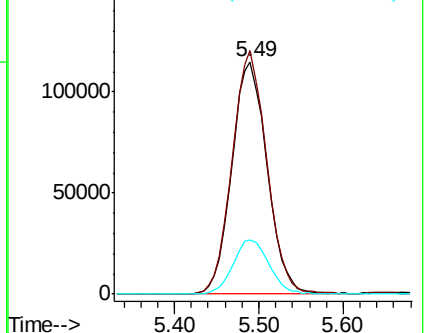
192 23.9 19.2 28.8

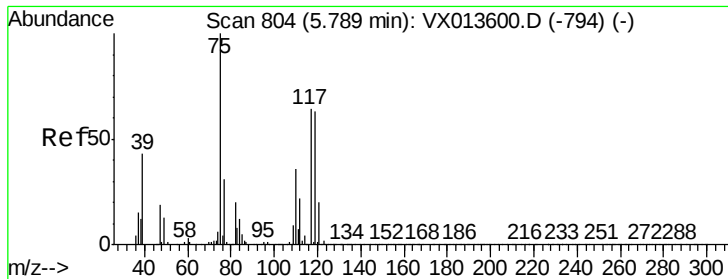


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

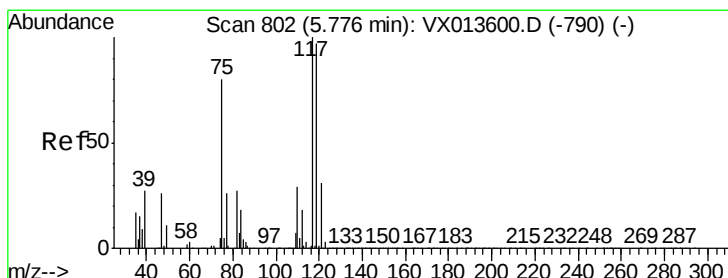
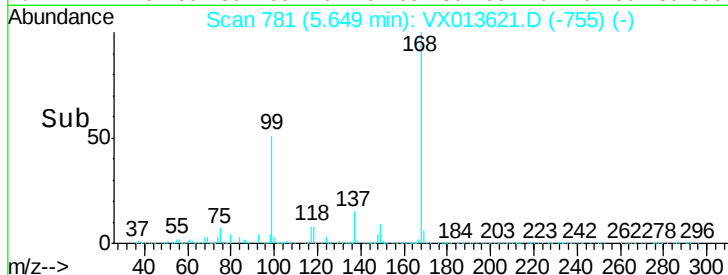
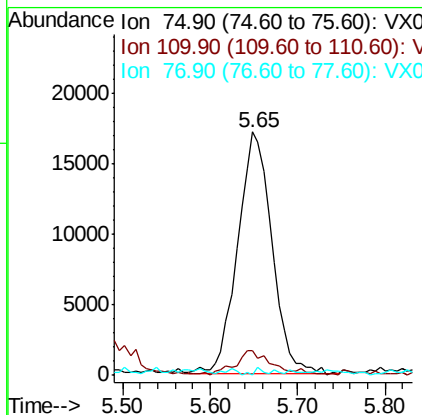
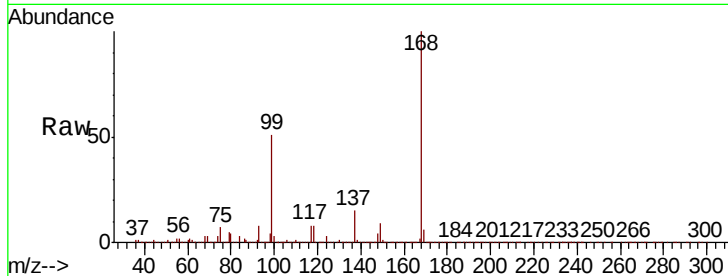




#36
 1,1-Dichloropropene
 Concen: 4.693 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013621.D
 Acq: 27 Nov 2019 00:46

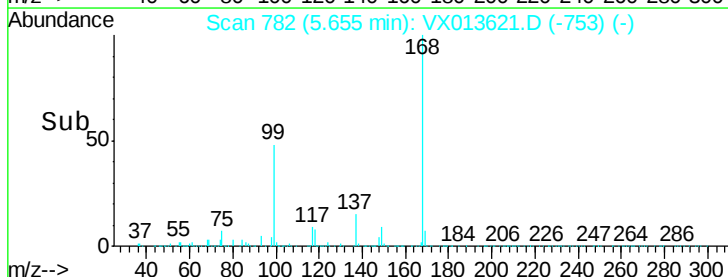
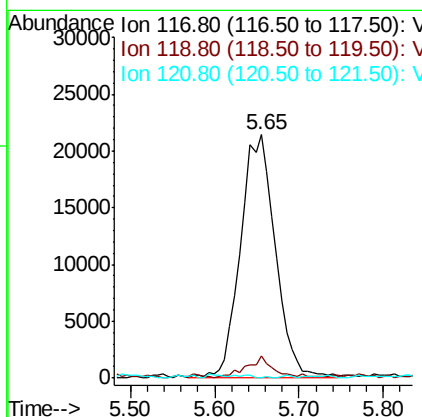
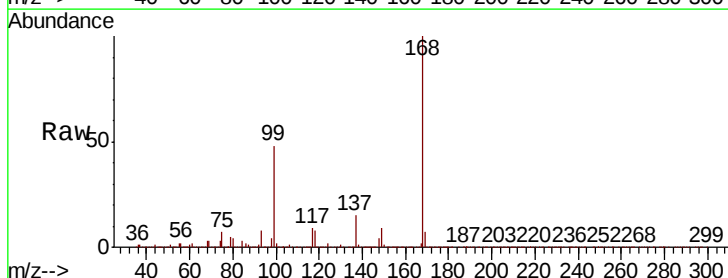
Instrument :
 MSVOA_X
 ClientSampleId :

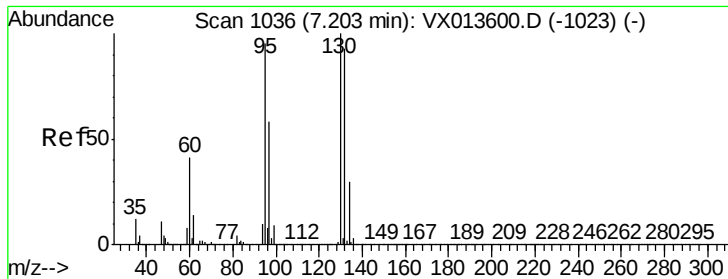
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.1	54.1#
77	0.9	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.580 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013621.D
 Acq: 27 Nov 2019 00:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.1	77.5	116.3#
121	0.4	25.0	37.6#





#44

Trichloroethene

Concen: 19.005 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

Instrument :

MSVOA_X

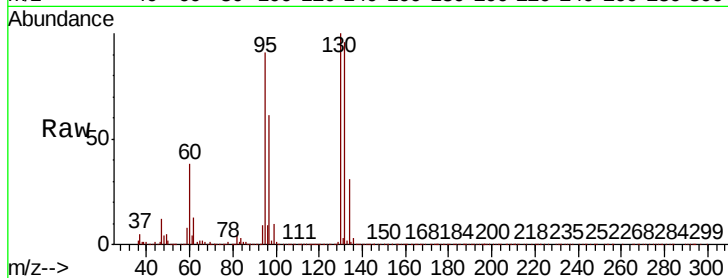
ClientSampleId :

Tot Ion:130 Resp: 157681

Ion Ratio Lower Upper

130 100

95 90.8 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

80000

60000

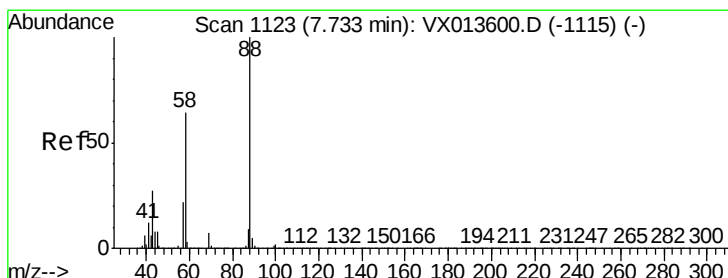
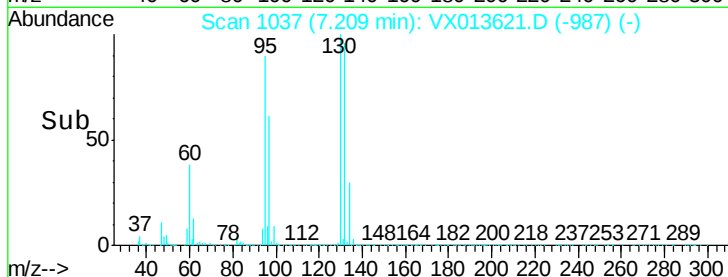
40000

20000

0

7.10 7.20 7.30

Time-->



#49

1,4-Dioxane

Concen: 1.801 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

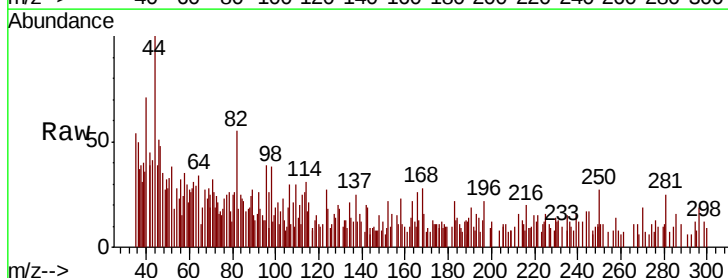
Tgt Ion: 88 Resp: 359

Ion Ratio Lower Upper

88 100

43 111.1 25.8 38.6#

58 163.0 54.6 82.0#



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

800

600

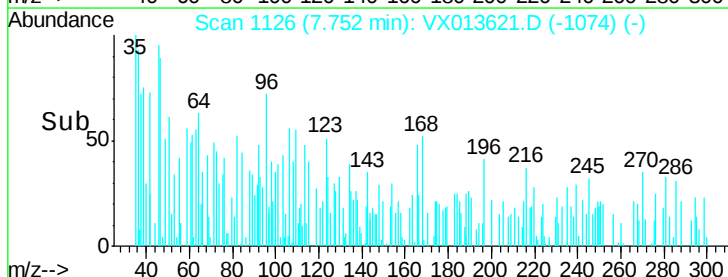
400

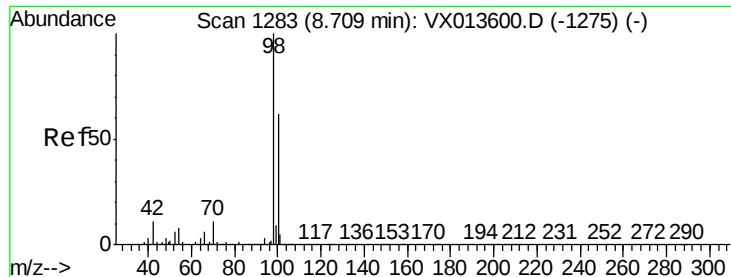
200

0

7.72 7.74 7.76 7.78

Time-->





#50

Toluene-d8

Concen: 49.098 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

Instrument :

MSVOA_X

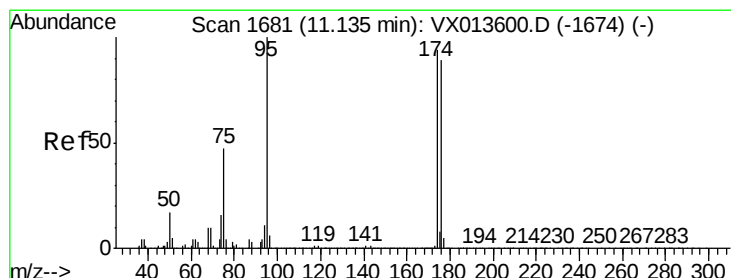
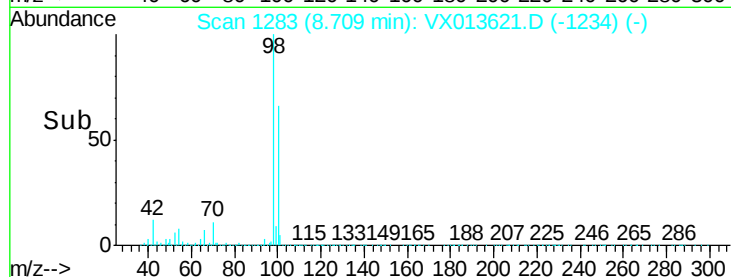
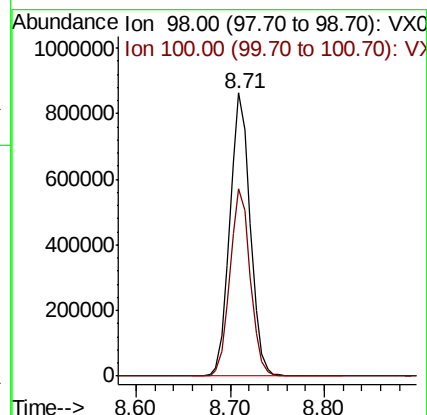
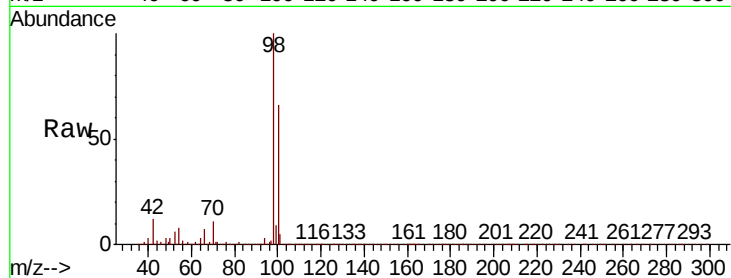
ClientSampleId :

Tot Ion: 98 Resp: 1293124

Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 45.810 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

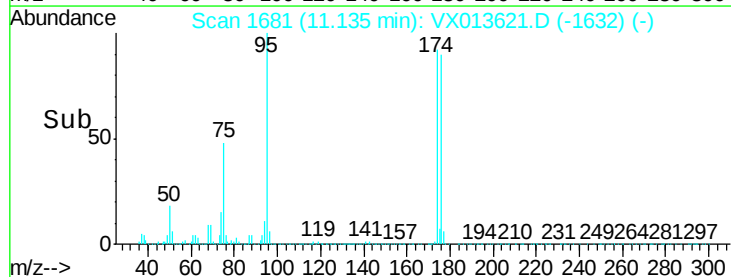
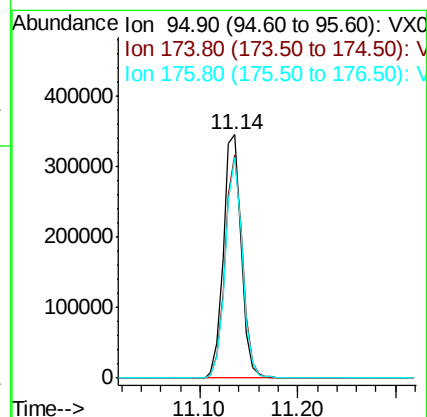
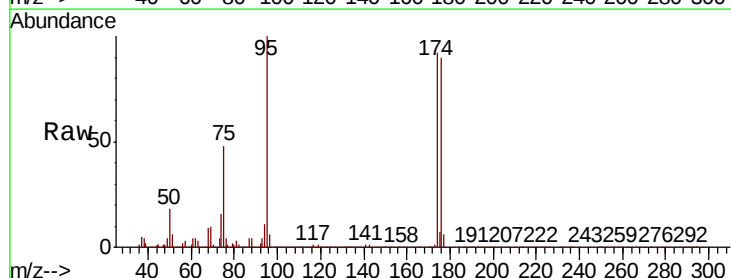
Tgt Ion: 95 Resp: 435077

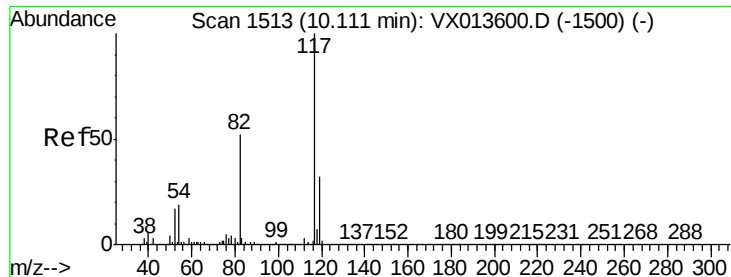
Ion Ratio Lower Upper

95 100

174 89.9 0.0 180.0

176 86.8 0.0 173.6

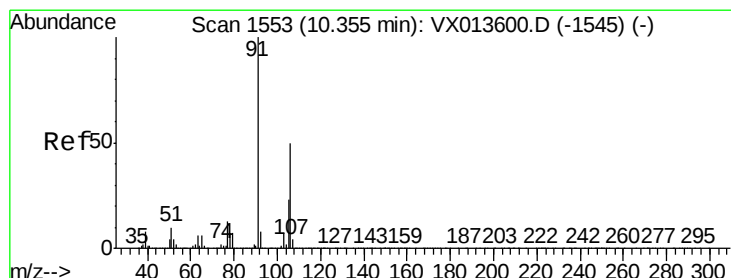
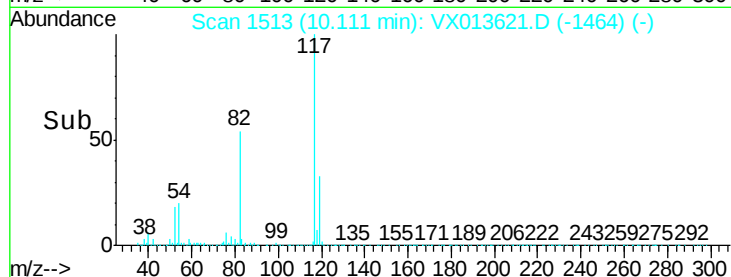
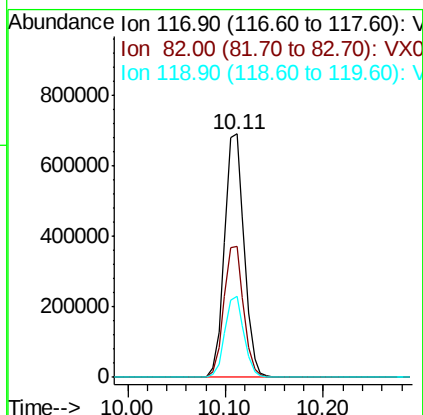
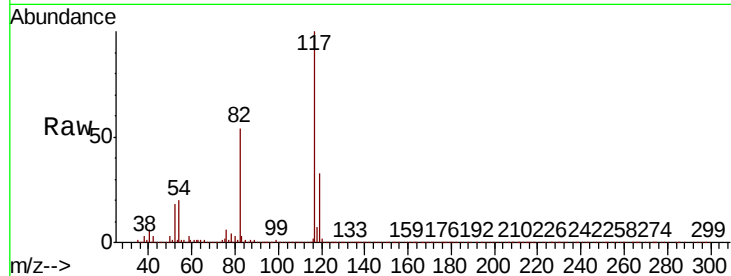




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

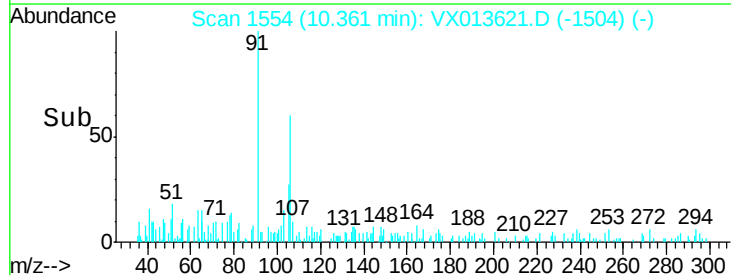
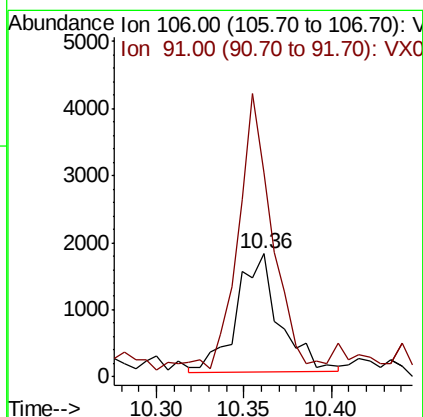
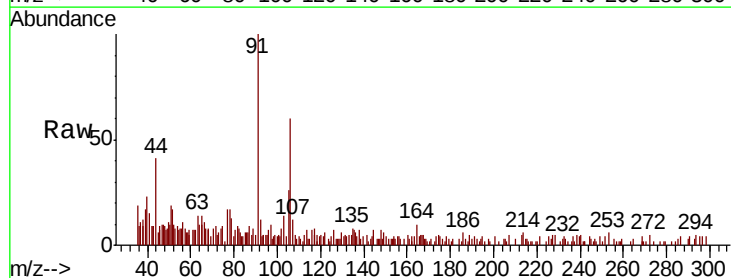
Instrument :
MSVOA_X
ClientSampled :

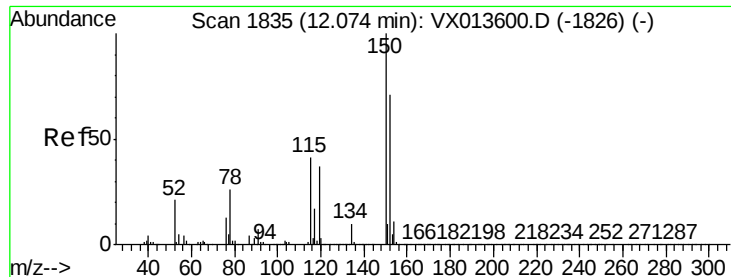
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	41.8	62.8
119	33.3	25.8	38.8



#68
m/p-Xylenes
Concen: 0.227 ug/l
RT: 10.36 min Scan# 1554
Delta R.T. 0.01 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

Tgt Ion	Ratio	Lower	Upper
106	100		
91	188.9	159.0	238.4



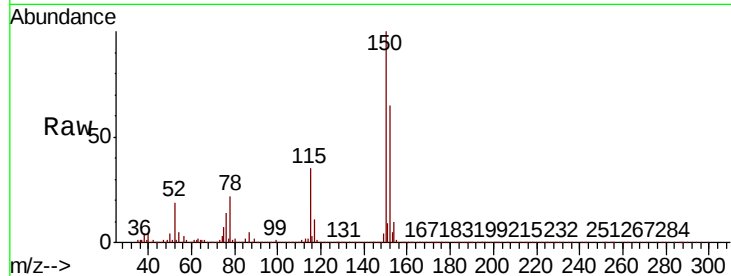


#72

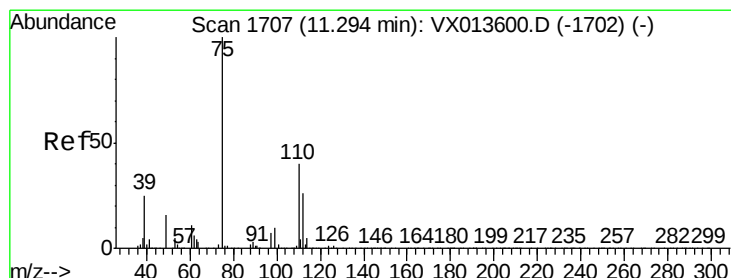
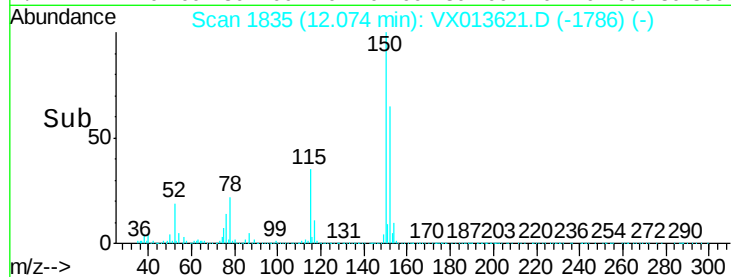
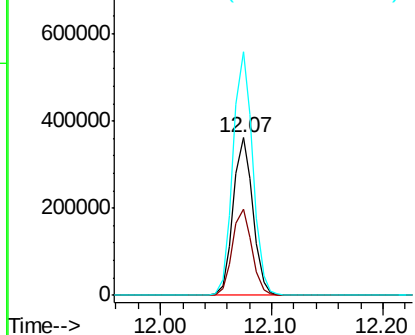
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.6	38.4	115.1
150	155.7	0.0	346.8



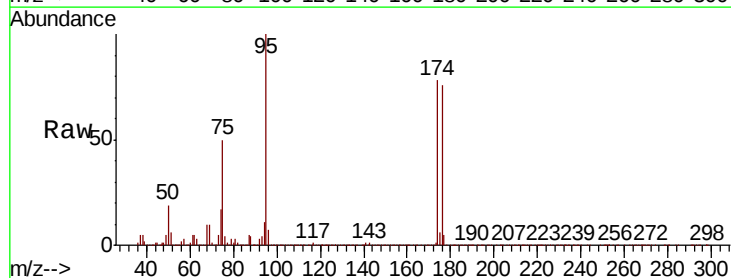
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



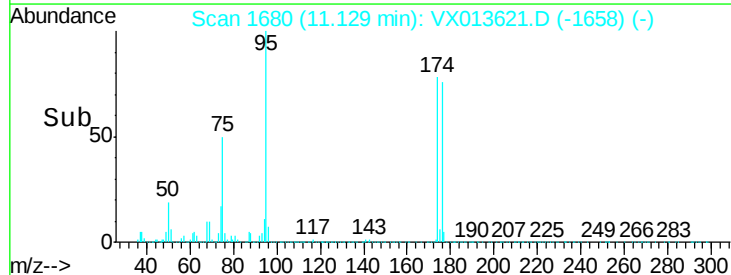
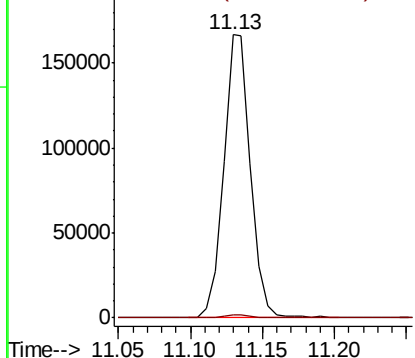
#76

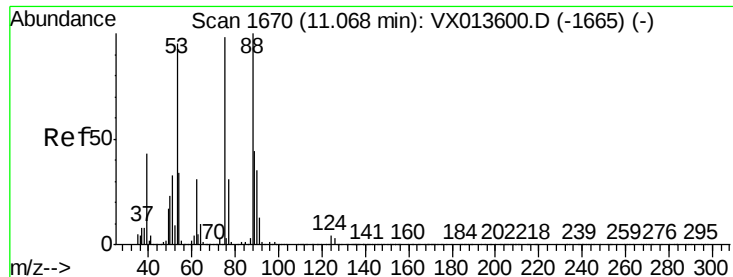
1,2,3-Trichloropropane
Concen: 21.835 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX013621.D
Acq: 27 Nov 2019 00:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.1	57.5#



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: 59.736 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013621.D

Acq: 27 Nov 2019 00:46

Instrument :

MSVOA_X

ClientSampleId :

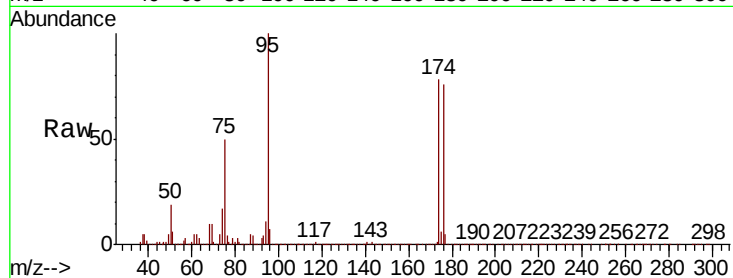
Tot Ion: 75 Resp: 216839

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.1 35.4 53.2#



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

