

Data File : VX013897.D
Acq On : 10 Dec 2019 14:49
Operator : JC/SP
Sample : K6186-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
S32-GAC3-IDW01

Quant Time: Dec 11 02:25:09 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	582094	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	896001	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	809319	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	359302	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	323583	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
35) Dibromofluoromethane	5.49	113	268375	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
50) Toluene-d8	8.71	98	1072493	49.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.14	95	355000	45.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.24%	

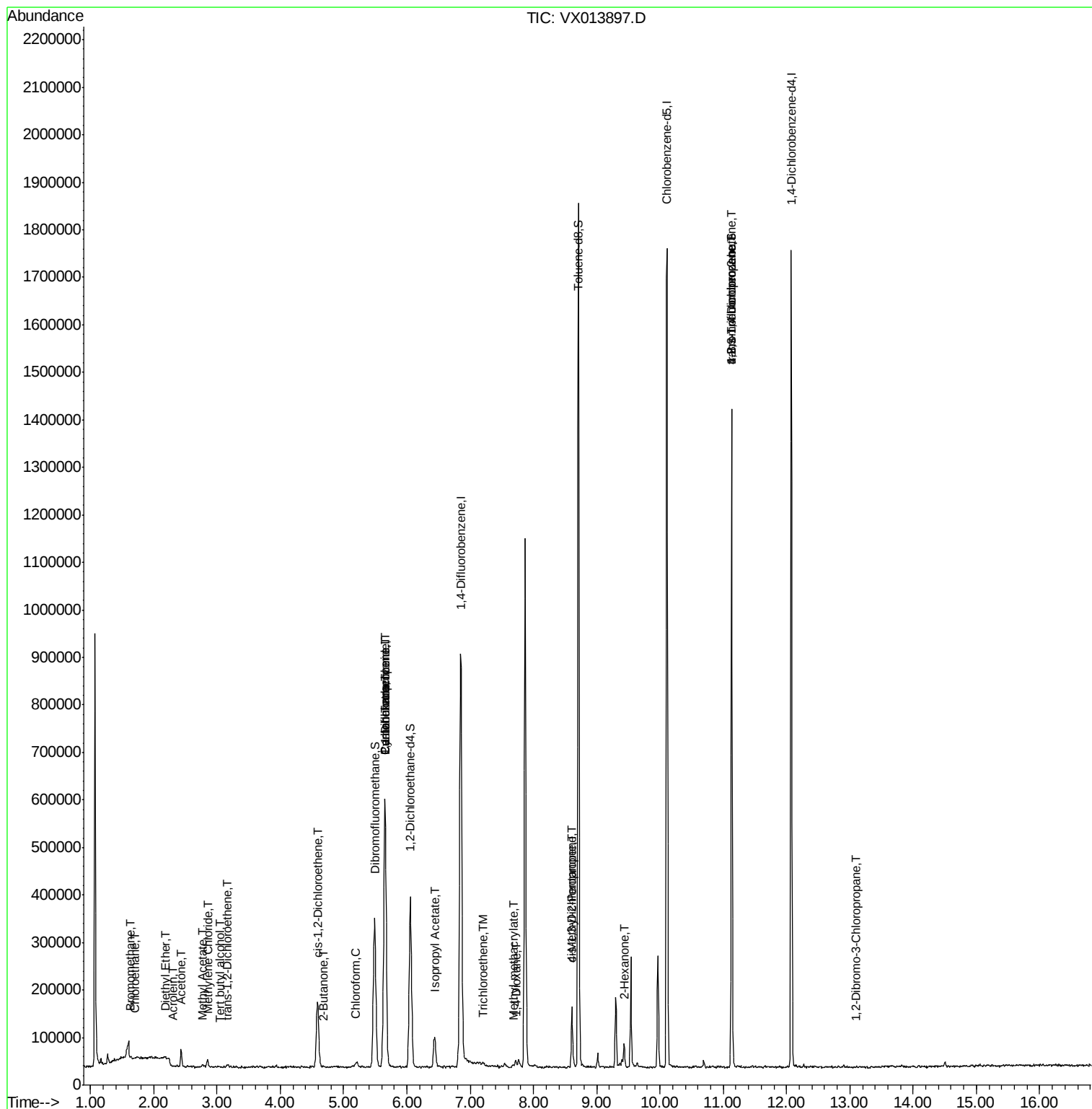
Target Compounds						Qvalue
5) Bromomethane	1.64	94	1587	0.289	ug/l	95
6) Chloroethane	1.70	64	2238	0.481	ug/l #	56
8) Diethyl Ether	2.18	74	1762	0.429	ug/l	86
11) Tert butyl alcohol	3.05	59	425	0.255	ug/l #	74
13) Acrolein	2.30	56	244	6.217	ug/l #	15
16) Acetone	2.43	43	37586	11.267	ug/l	98
18) Methyl Acetate	2.76	43	6285	0.677	ug/l	95
20) Methylene Chloride	2.86	84	8572	1.338	ug/l #	81
21) trans-1,2-Dichloroethene	3.16	96	2507	0.415	ug/l	91
25) 2-Butanone	4.69	43	5097	1.028	ug/l #	66
27) cis-1,2-Dichloroethene	4.59	96	88947	12.834	ug/l	89
30) Chloroform	5.20	83	14038	1.308	ug/l	98
31) Cyclohexane	5.65	56	11406	1.143	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	38839	4.775	ug/l #	52
38) Carbon Tetrachloride	5.65	117	52267	6.969	ug/l #	15
43) Isopropyl Acetate	6.43	43	90936	6.054	ug/l	98
44) Trichloroethene	7.22	130	3020	0.444	ug/l	73
48) Methyl methacrylate	7.67	41	4661	0.639	ug/l #	15
49) 1,4-Dioxane	7.73	88	769	4.707	ug/l #	24
51) 4-Methyl-2-Pentanone	8.61	43	46746	4.947	ug/l #	54
54) cis-1,3-Dichloropropene	8.61	75	22512	2.275	ug/l #	58
59) 2-Hexanone	9.43	43	37839	5.134	ug/l #	26
76) 1,2,3-Trichloropropane	11.14	75	174986	21.653	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	174986	59.239	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.10	75	447	0.235	ug/l	79

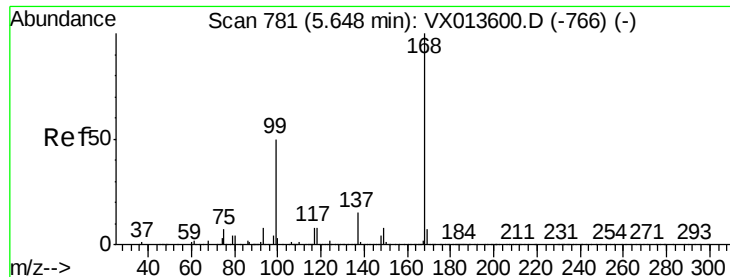
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
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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: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

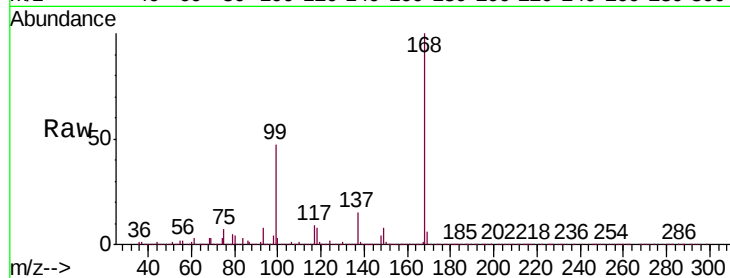
S32-GAC3-IDW01

Tgt Ion:168 Resp: 582094

Ion Ratio Lower Upper

168 100

99 47.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

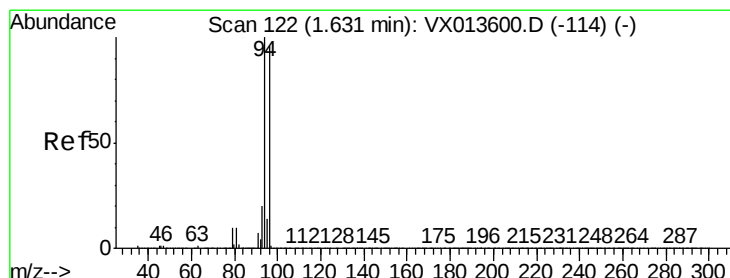
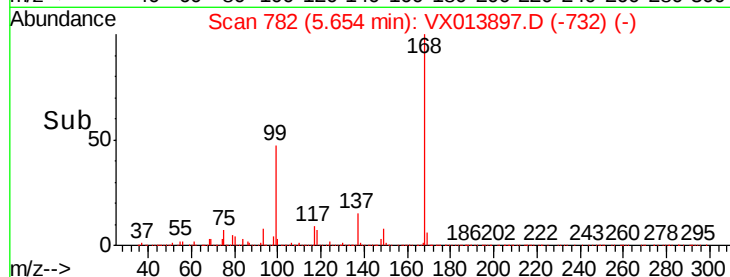
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.289 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013897.D

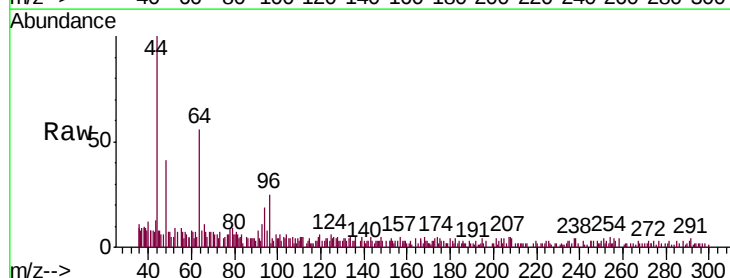
Acq: 10 Dec 2019 14:49

Tgt Ion: 94 Resp: 1587

Ion Ratio Lower Upper

94 100

96 91.1 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

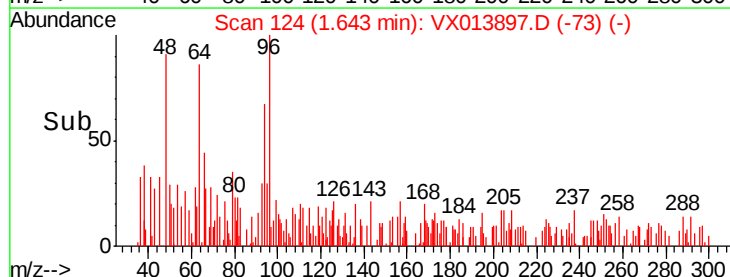
400

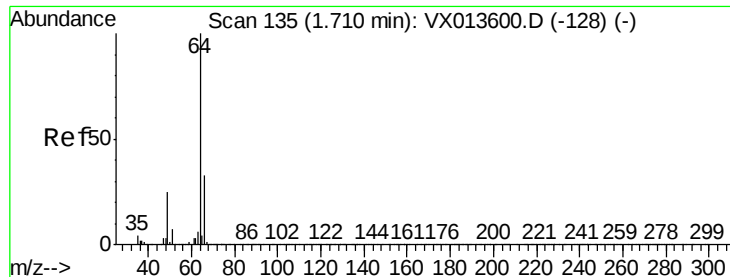
200

0

1.60 1.65 1.70

Time-->





#6

Chloroethane

Concen: 0.481 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

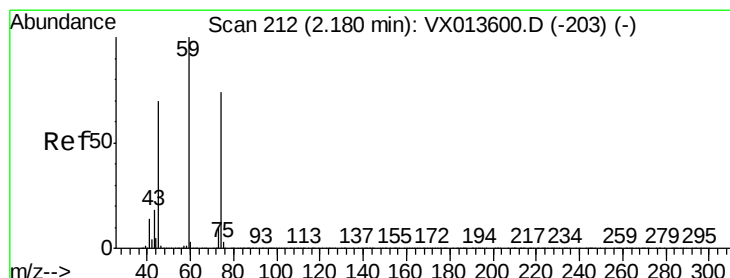
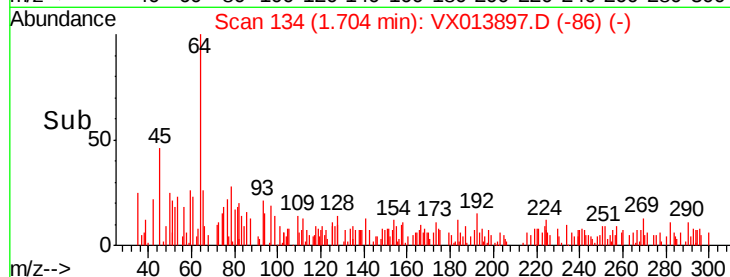
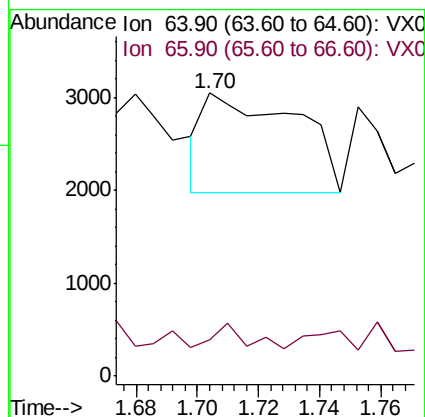
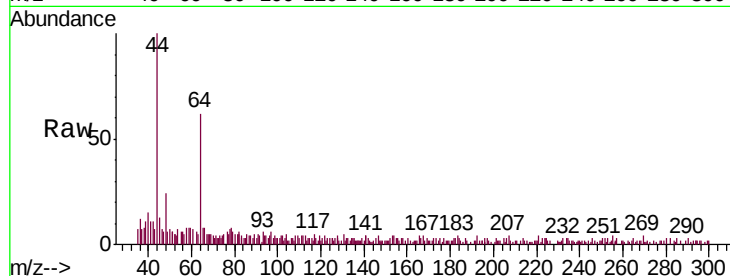
S32-GAC3-IDW01

Tgt Ion: 64 Resp: 2238

Ion Ratio Lower Upper

64 100

66 8.3 26.7 40.1#



#8

Diethyl Ether

Concen: 0.429 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX013897.D

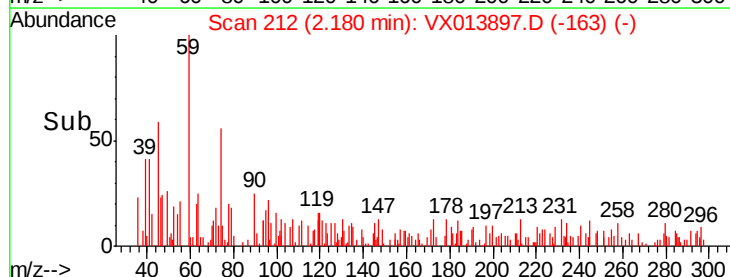
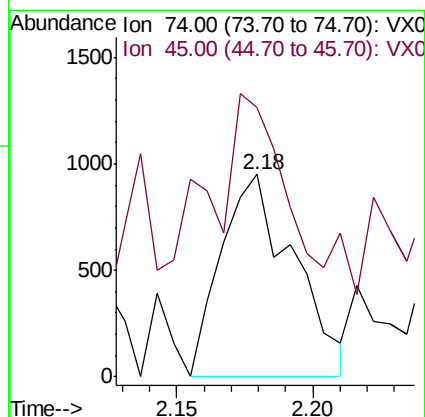
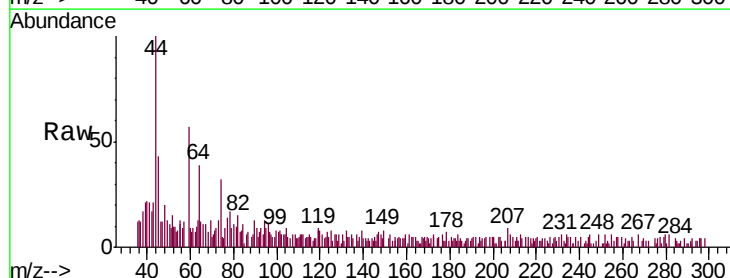
Acq: 10 Dec 2019 14:49

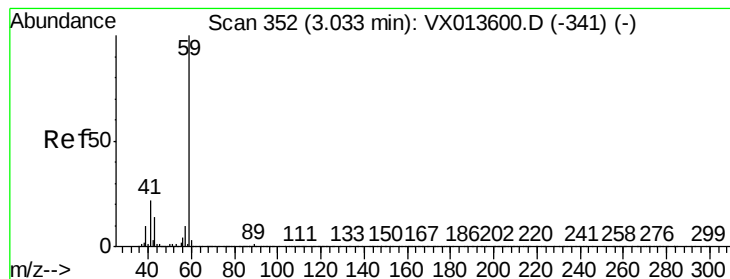
Tgt Ion: 74 Resp: 1762

Ion Ratio Lower Upper

74 100

45 111.9 48.9 146.8



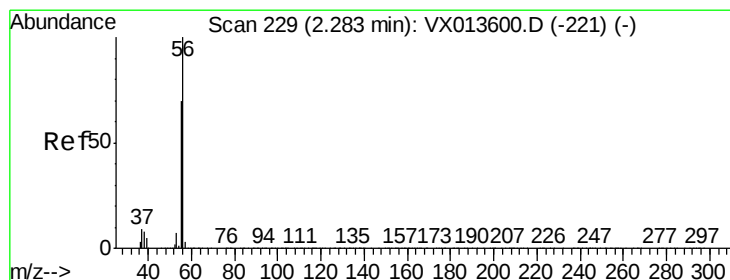
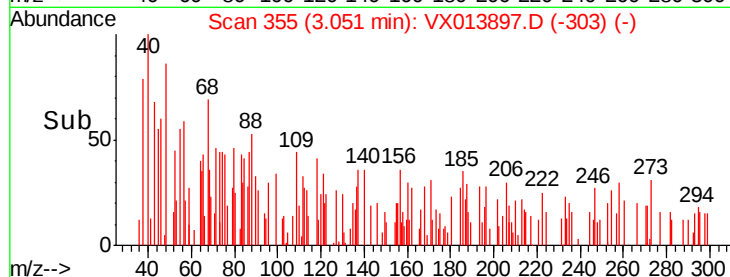
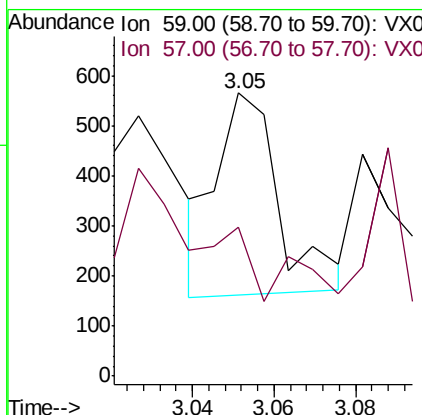
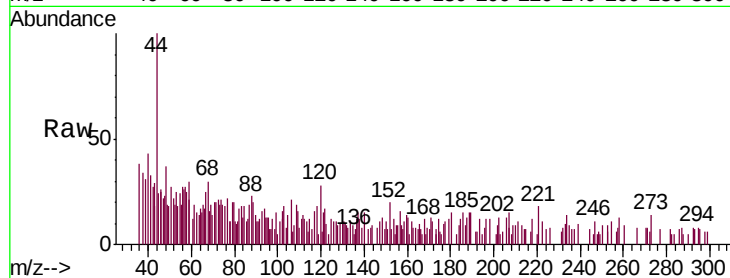


#11

Tert butyl alcohol
Concen: 0.255 ug/l
RT: 3.05 min Scan# 355
Delta R.T. 0.02 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :
S32-GAC3-IDW01

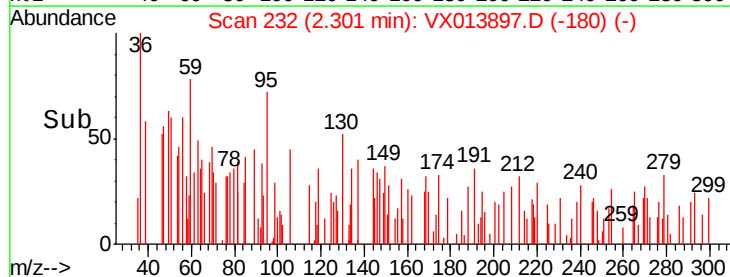
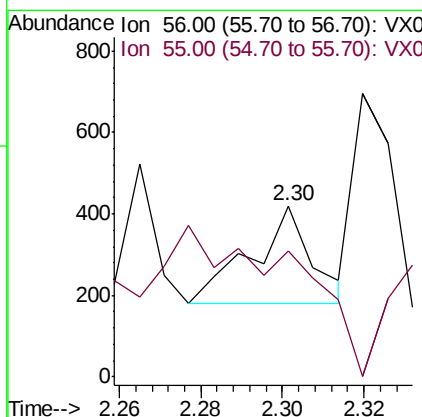
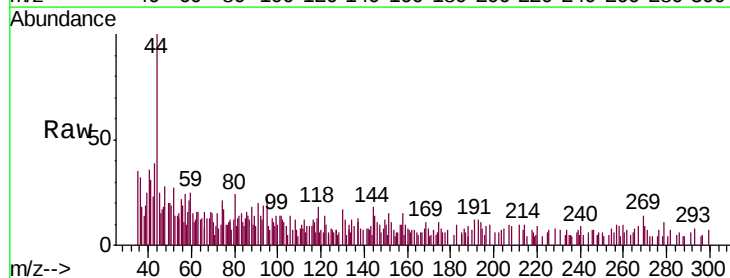
Tgt Ion: 59 Resp: 425
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

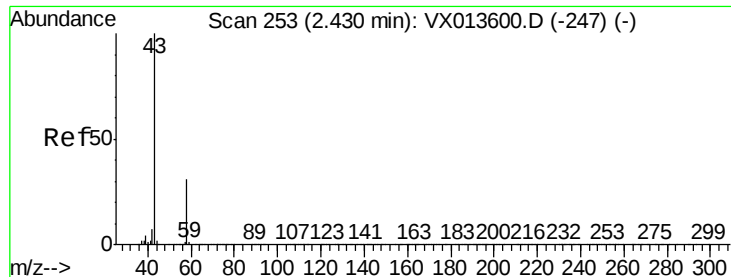


#13

Acrolein
Concen: 6.217 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

Tgt Ion: 56 Resp: 244
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#





#16

Acetone

Concen: 11.267 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

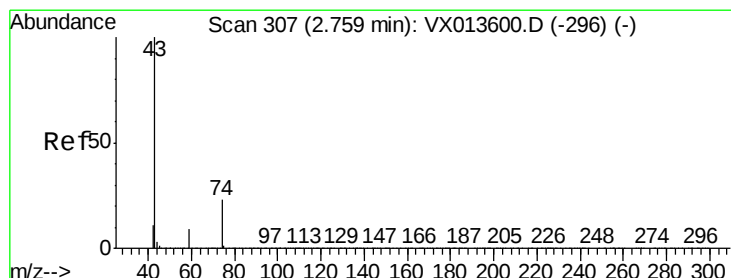
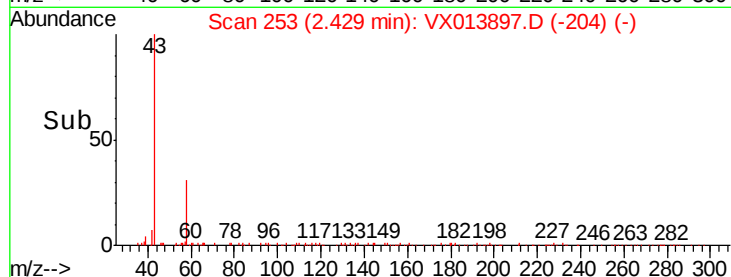
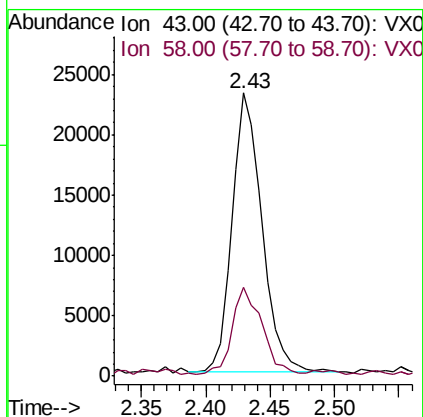
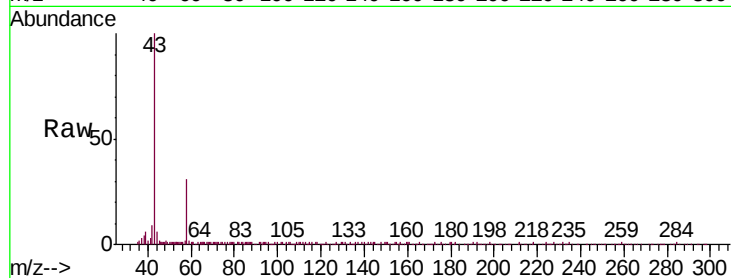
S32-GAC3-IDW01

Tgt Ion: 43 Resp: 37586

Ion Ratio Lower Upper

43 100

58 29.8 24.6 36.8



#18

Methyl Acetate

Concen: 0.677 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.01 min

Lab File: VX013897.D

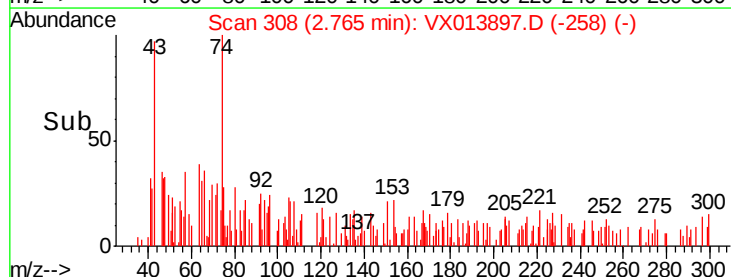
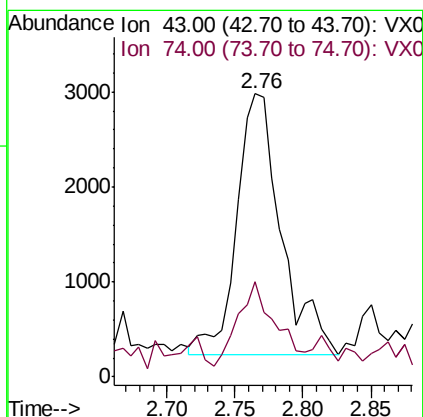
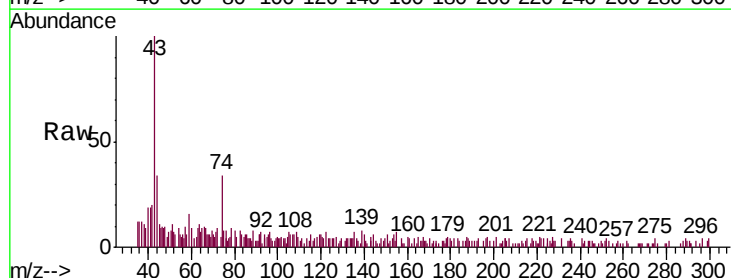
Acq: 10 Dec 2019 14:49

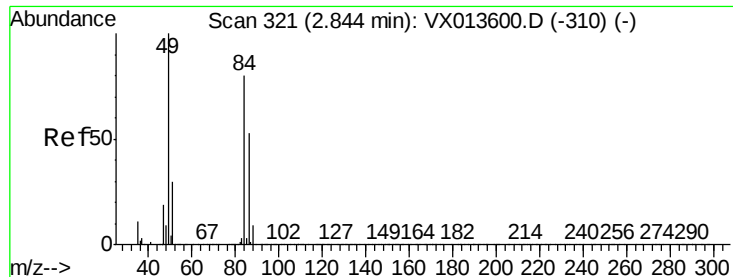
Tgt Ion: 43 Resp: 6285

Ion Ratio Lower Upper

43 100

74 27.1 19.5 29.3





#20

Methylene Chloride

Concen: 1.338 ug/l

RT: 2.86 min Scan# 323

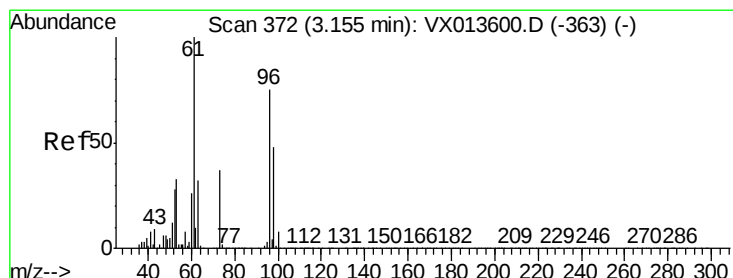
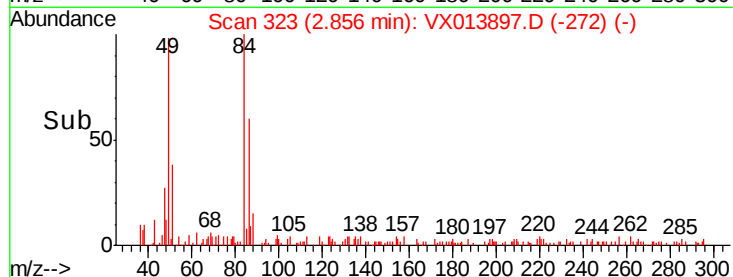
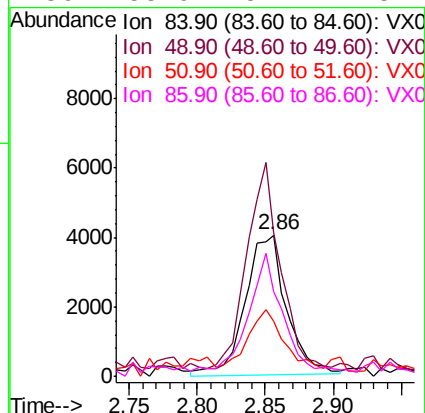
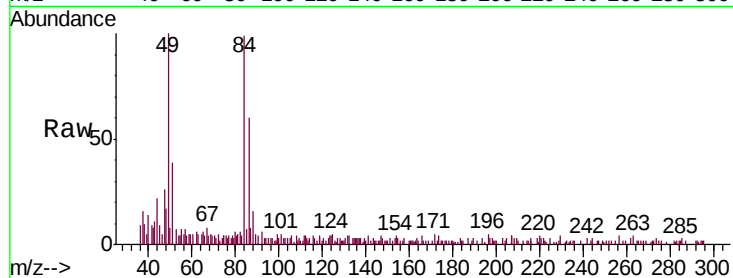
Delta R.T. 0.01 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :
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ClientSampleId :
S32-GAC3-IDW01

Tgt Ion:	84	Resp:	8572
Ion	Ratio	Lower	Upper
84	100		
49	95.6	99.7	149.5#
51	28.0	29.9	44.9#
86	58.9	52.2	78.4



#21

trans-1,2-Dichloroethene

Concen: 0.415 ug/l

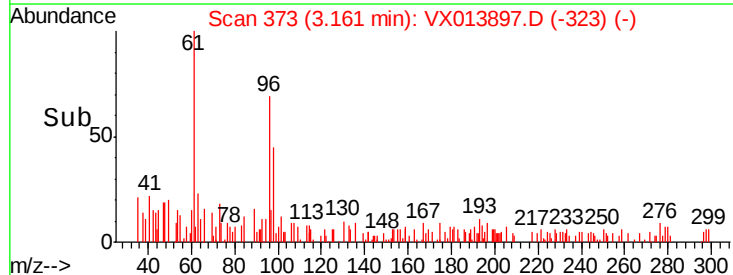
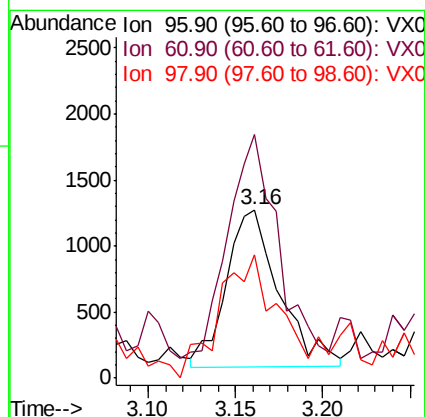
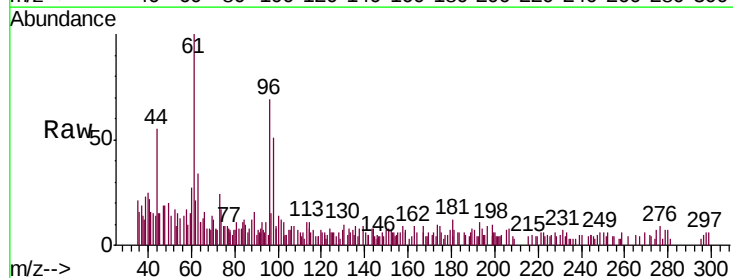
RT: 3.16 min Scan# 373

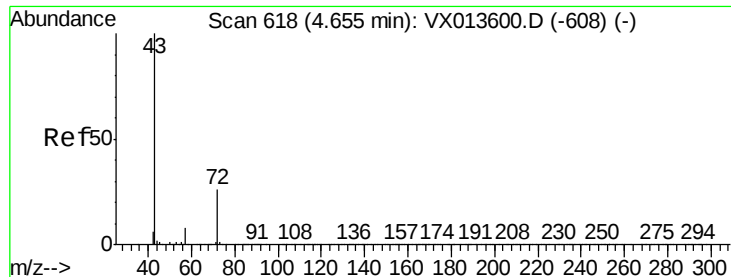
Delta R.T. 0.01 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Tgt Ion:	96	Resp:	2507
Ion	Ratio	Lower	Upper
96	100		
61	146.1	107.2	160.8
98	60.2	51.4	77.0

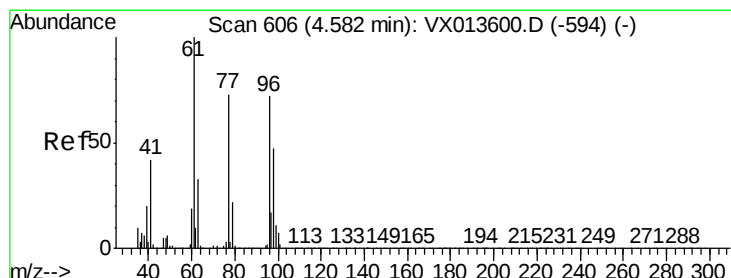
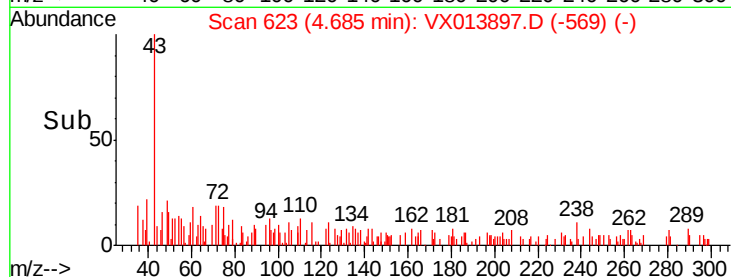
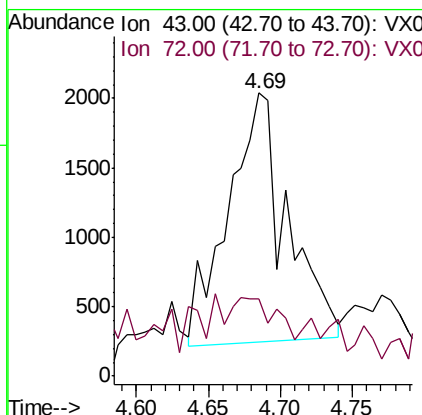
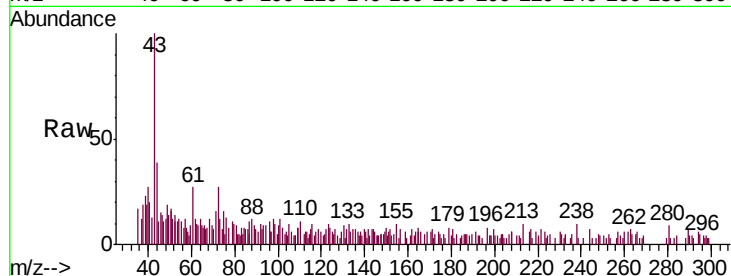




#25
2-Butanone
Concen: 1.028 ug/l
RT: 4.69 min Scan# 623
Delta R.T. 0.03 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

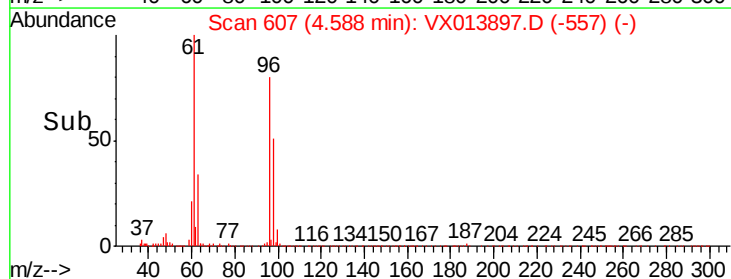
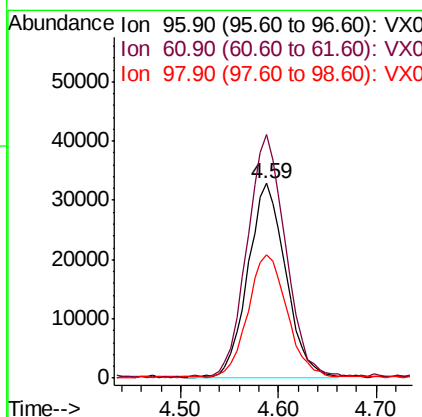
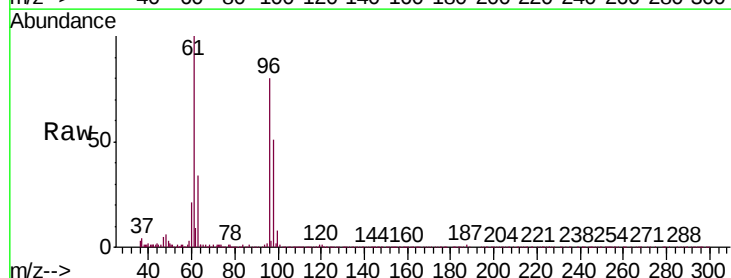
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC3-IDW01

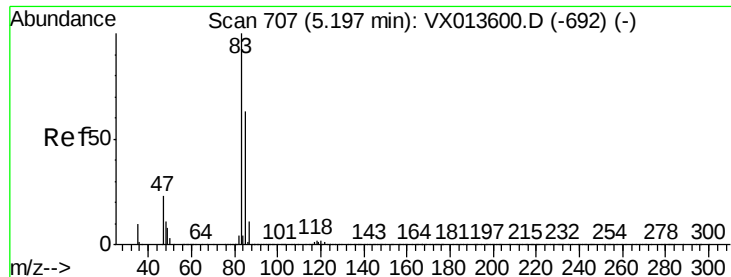
Tgt Ion: 43 Resp: 5097
Ion Ratio Lower Upper
43 100
72 8.5 20.6 31.0#



#27
cis-1,2-Dichloroethene
Concen: 12.834 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

Tgt Ion: 96 Resp: 88947
Ion Ratio Lower Upper
96 100
61 124.7 0.0 286.4
98 64.8 0.0 127.4

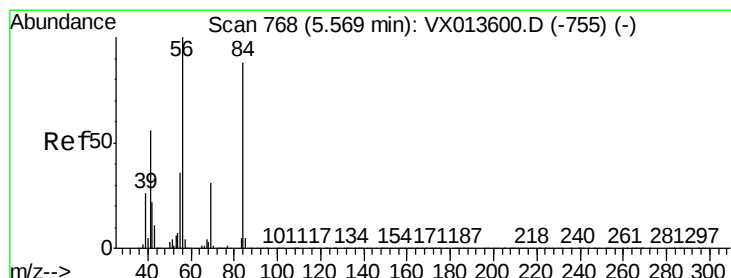
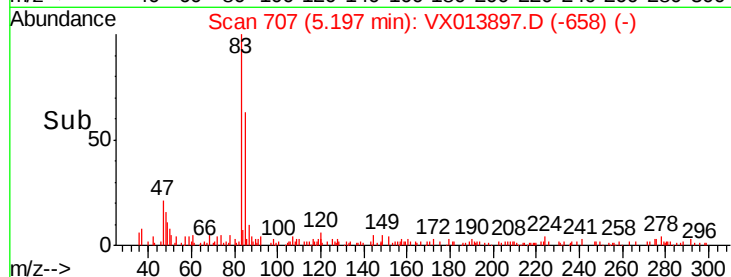
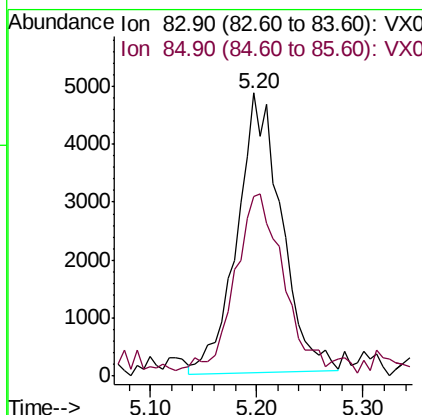
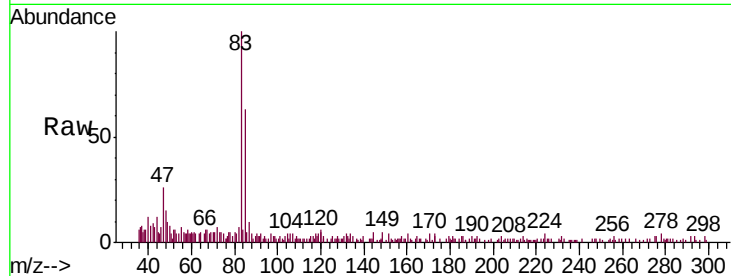




#30
Chloroform
Concen: 1.308 ug/l
RT: 5.20 min Scan# 707
Delta R.T. -0.00 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

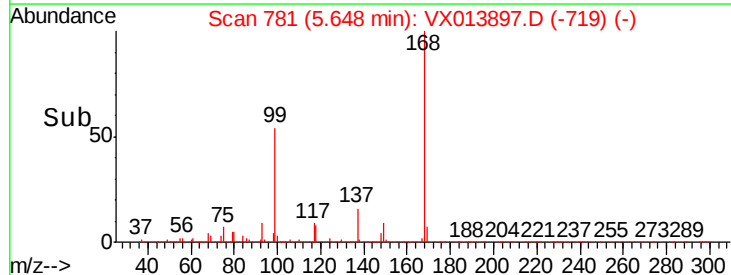
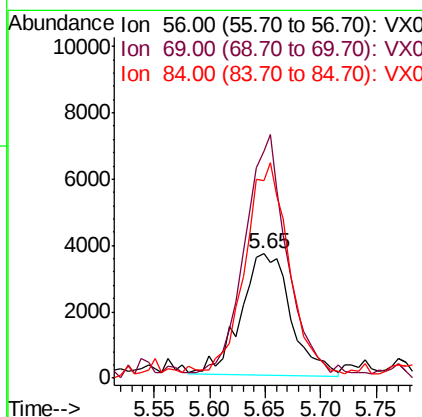
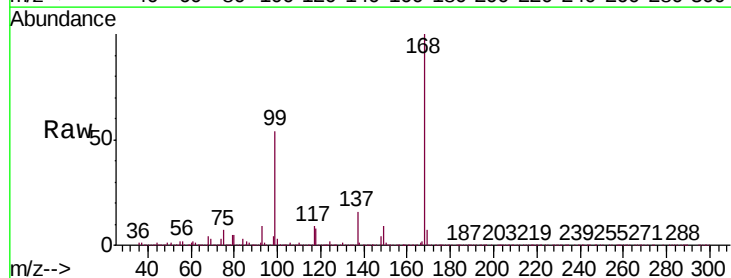
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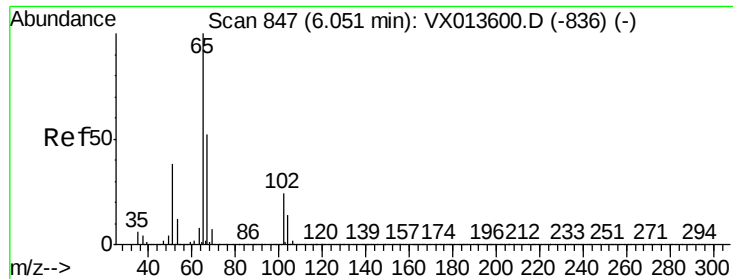
Tgt Ion: 83 Resp: 14038
Ion Ratio Lower Upper
83 100
85 61.6 50.2 75.4



#31
Cyclohexane
Concen: 1.143 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

Tgt Ion: 56 Resp: 11406
Ion Ratio Lower Upper
56 100
69 186.4 24.6 36.8#
84 159.8 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 47.890 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

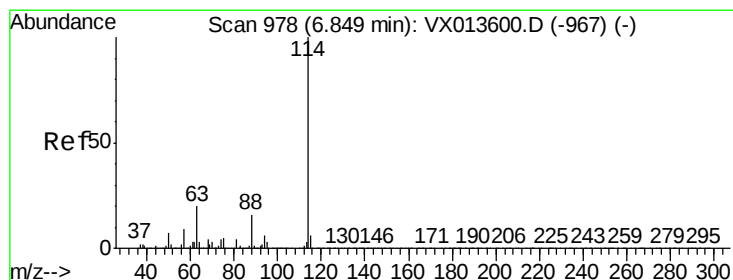
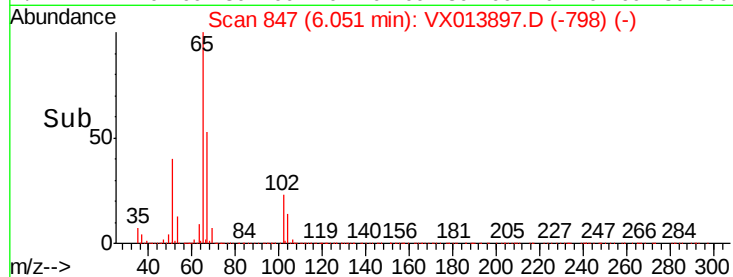
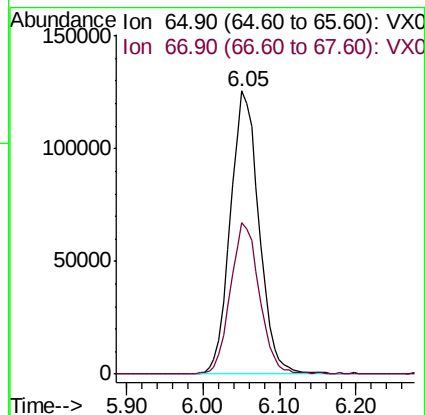
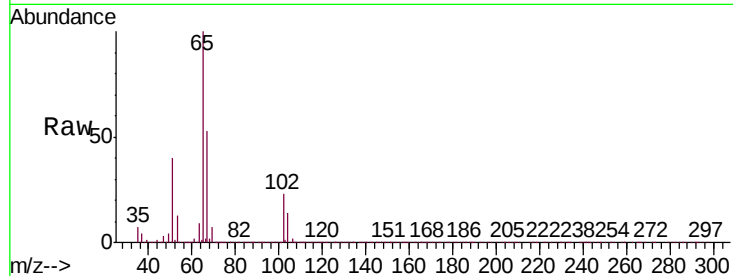
S32-GAC3-IDW01

Tgt Ion: 65 Resp: 323583

Ion Ratio Lower Upper

65 100

67 53.9 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: VX013897.D

Acq: 10 Dec 2019 14:49

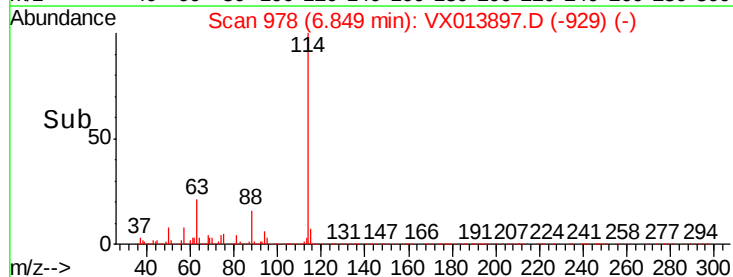
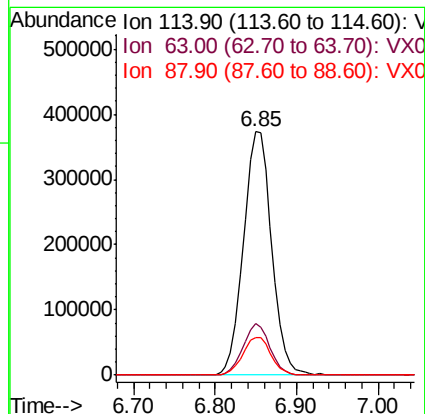
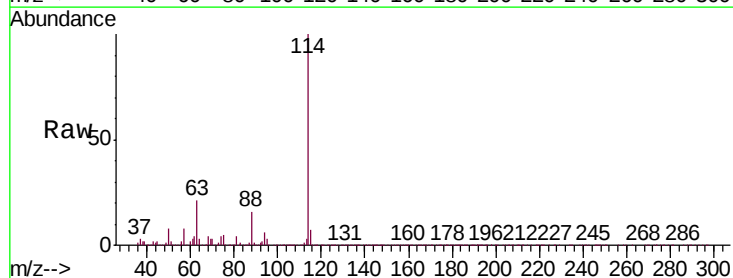
Tgt Ion: 114 Resp: 896001

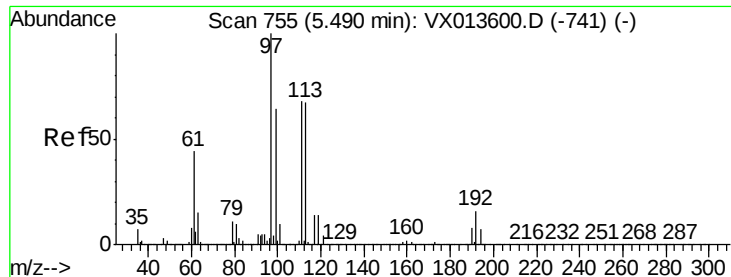
Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.6

88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.450 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC3-IDW01

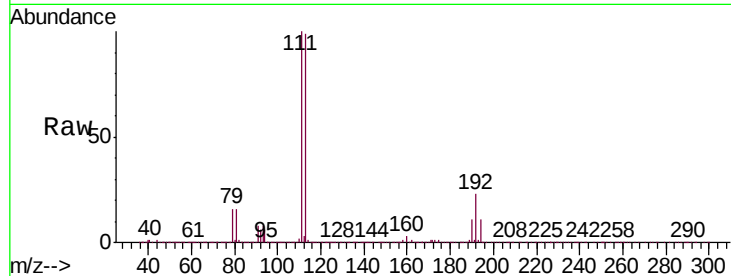
Tgt Ion:113 Resp: 268375

Ion Ratio Lower Upper

113 100

111 102.2 83.6 125.4

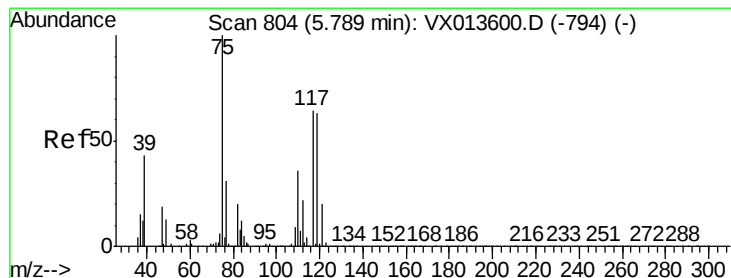
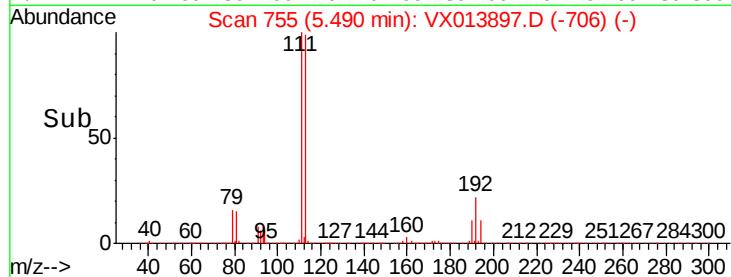
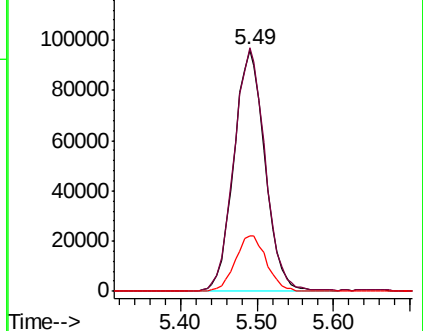
192 23.3 19.2 28.8



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: 4.775 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

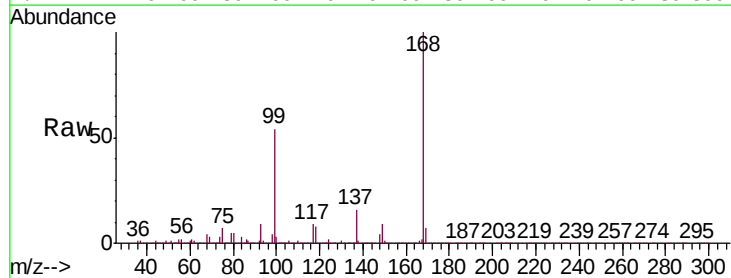
Tgt Ion: 75 Resp: 38839

Ion Ratio Lower Upper

75 100

110 11.6 18.1 54.1#

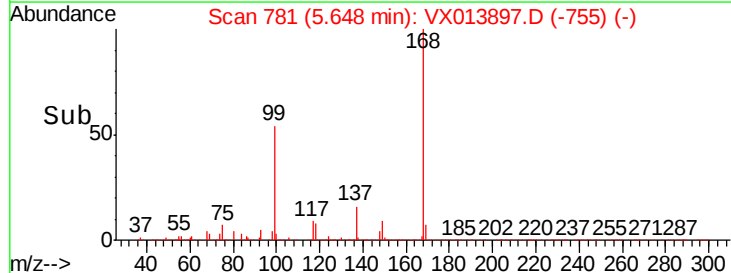
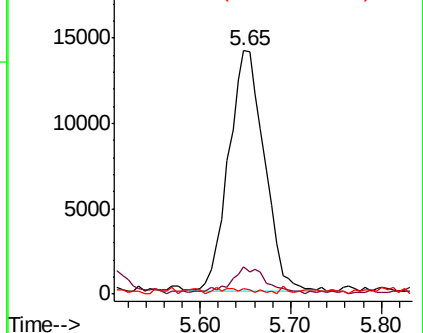
77 0.0 24.5 36.7#

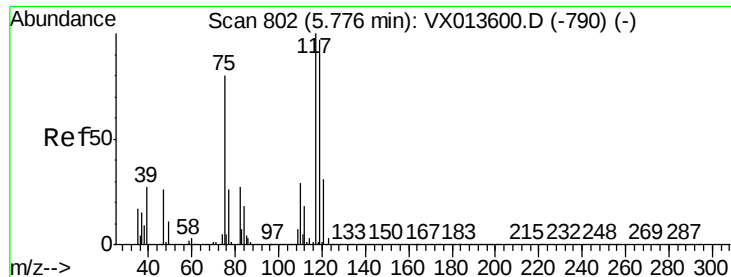


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

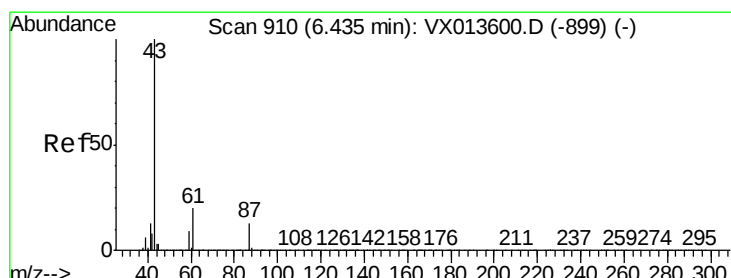
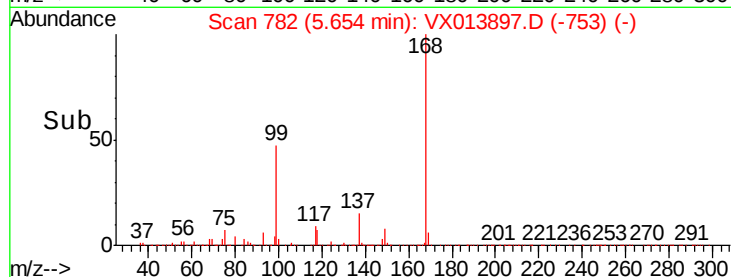
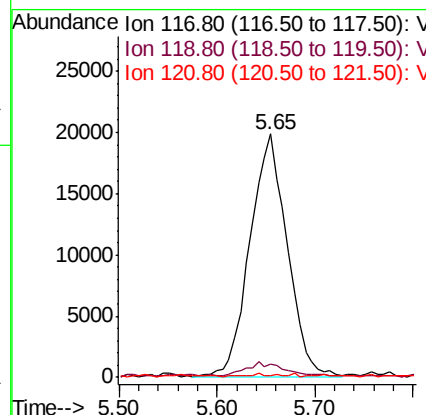
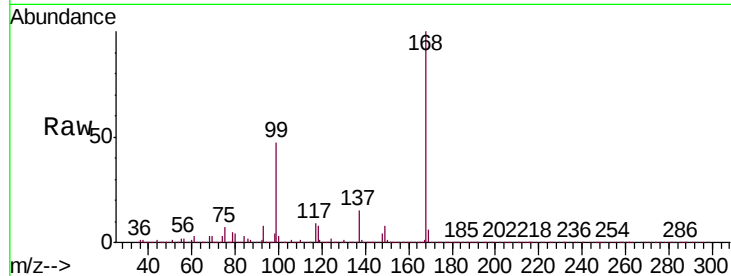




#38
Carbon Tetrachloride
Concen: 6.969 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

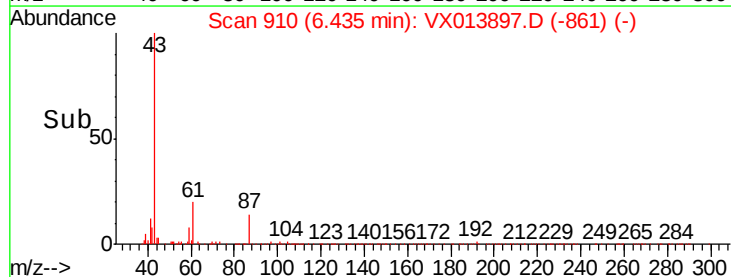
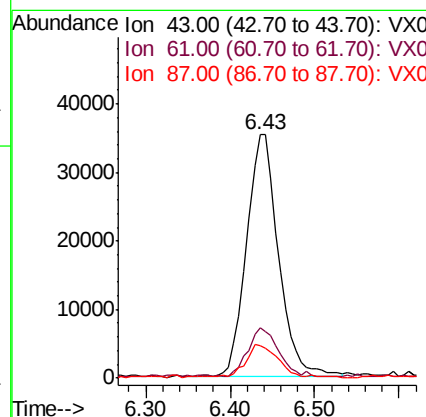
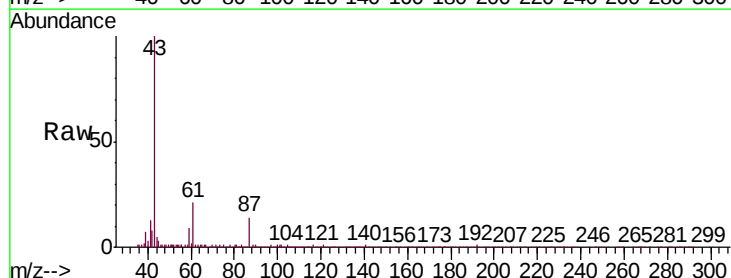
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC3-IDW01

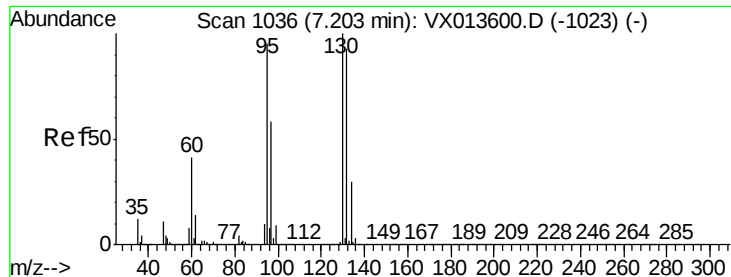
Tgt Ion:117 Resp: 52267
Ion Ratio Lower Upper
117 100
119 4.6 77.5 116.3#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 6.054 ug/l
RT: 6.43 min Scan# 910
Delta R.T. -0.00 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

Tgt Ion: 43 Resp: 90936
Ion Ratio Lower Upper
43 100
61 19.2 16.3 24.5
87 13.1 10.8 16.2





#44

Trichloroethene

Concen: 0.444 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

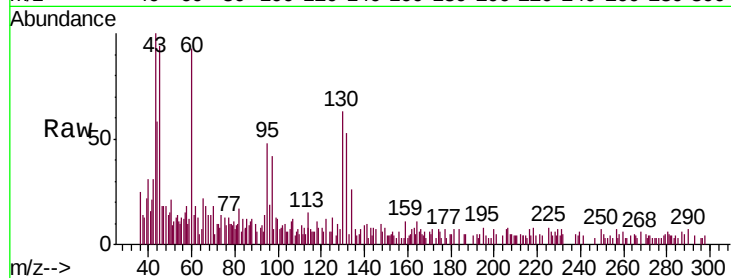
S32-GAC3-IDW01

Tgt Ion:130 Resp: 3020

Ion Ratio Lower Upper

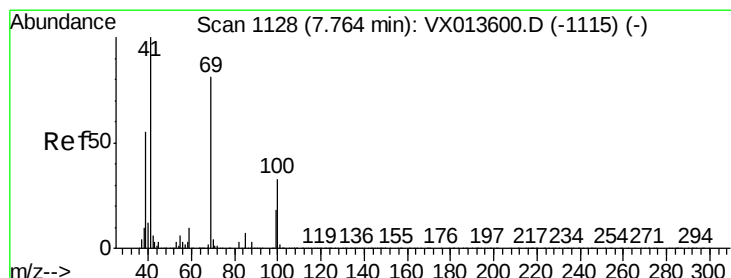
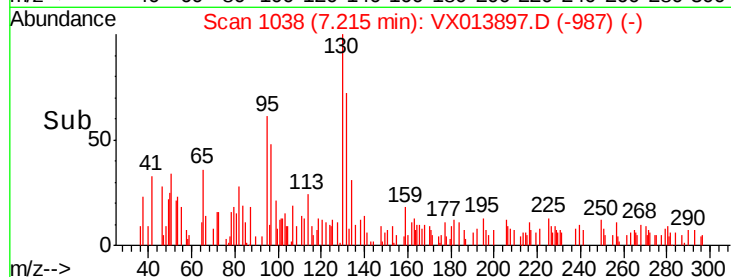
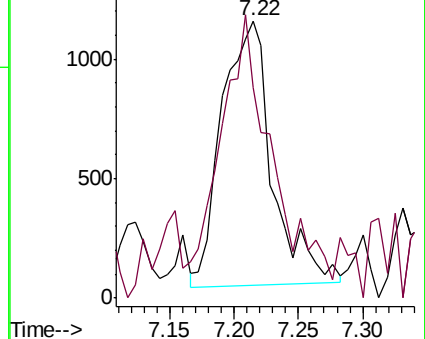
130 100

95 69.3 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 0.639 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. -0.09 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

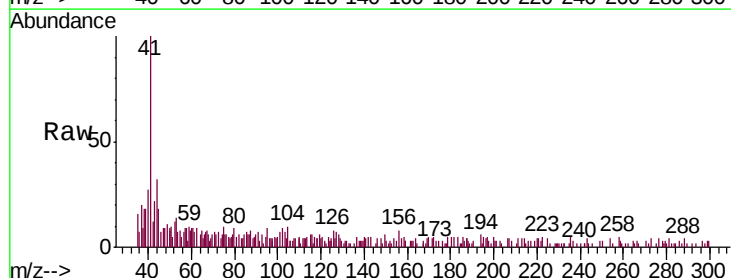
Tgt Ion: 41 Resp: 4661

Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

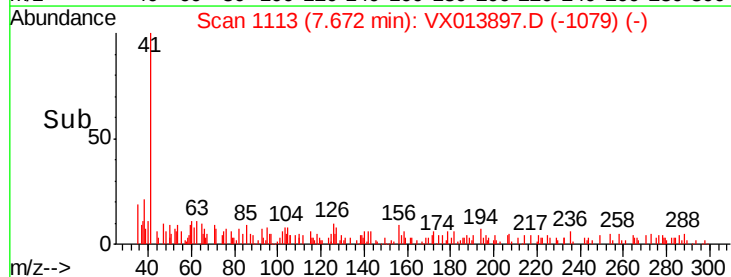
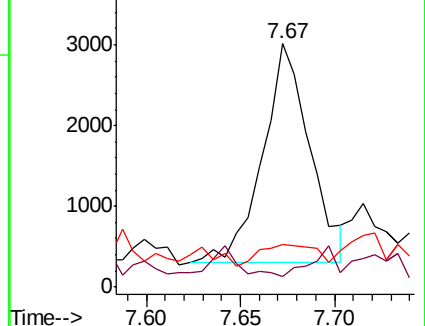
39 0.0 43.8 65.6#

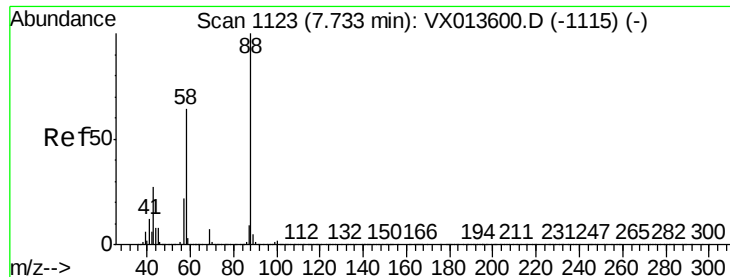


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 4.707 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC3-IDW01

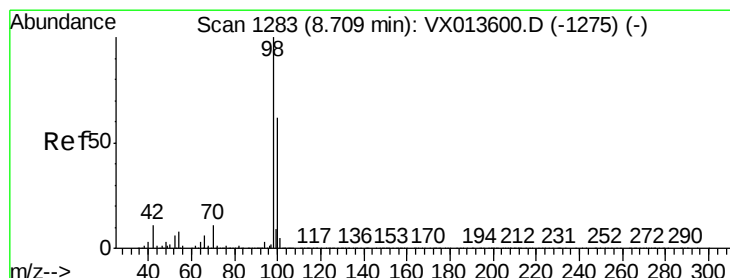
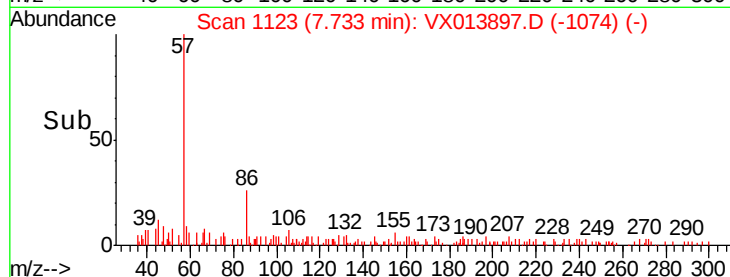
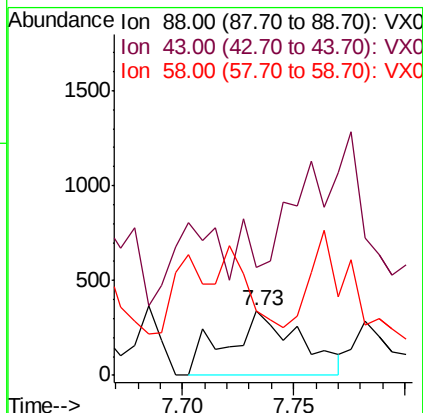
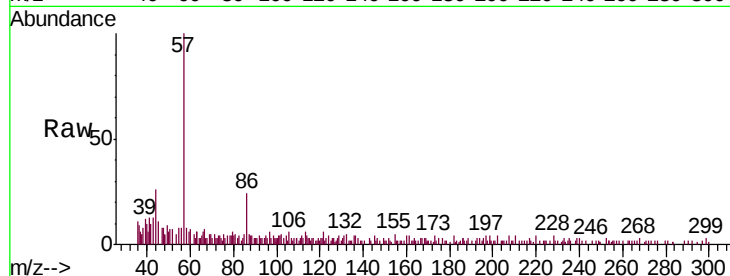
Tgt Ion: 88 Resp: 769

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 0.0 54.6 82.0#



#50

Toluene-d8

Concen: 49.695 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013897.D

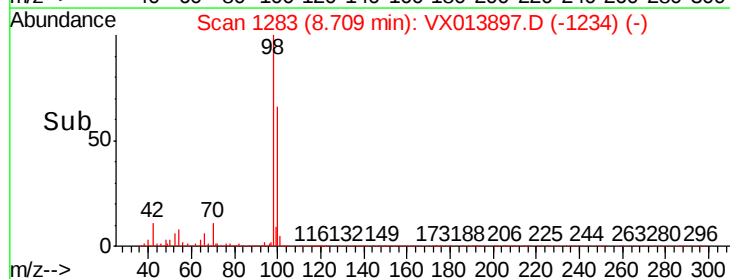
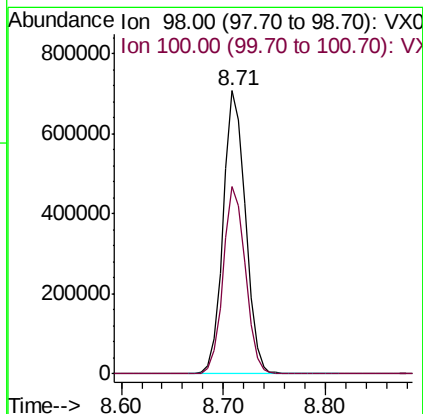
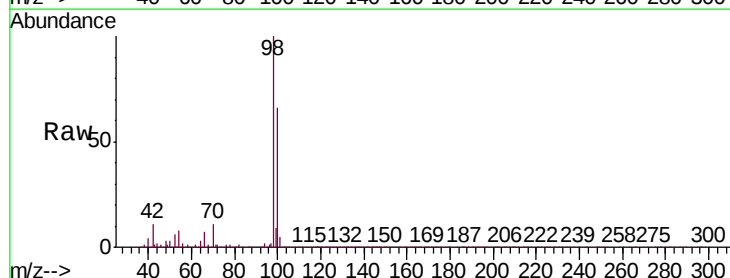
Acq: 10 Dec 2019 14:49

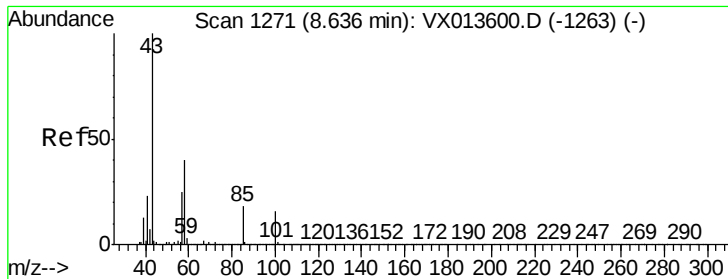
Tgt Ion: 98 Resp: 1072493

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7

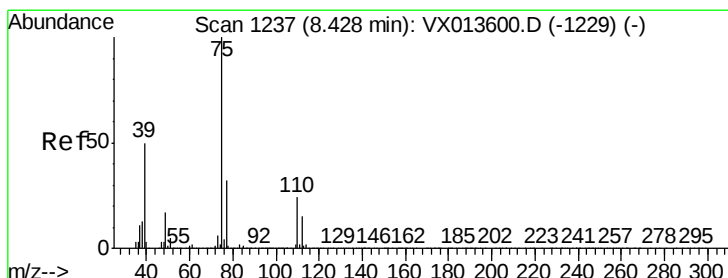
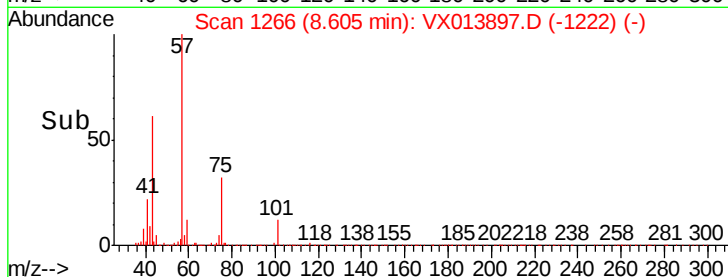
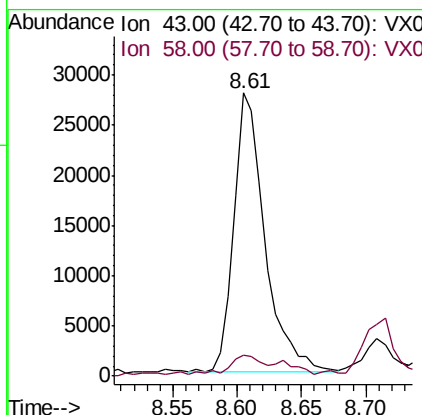
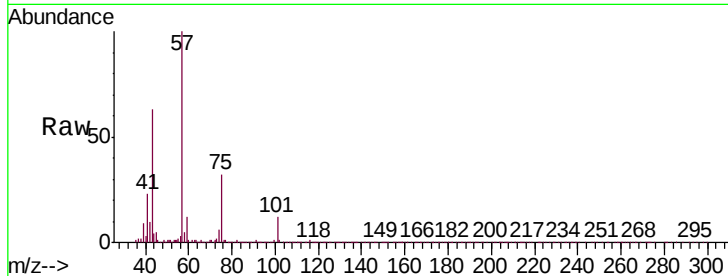




#51
 4-Methyl-2-Pentanone
 Concen: 4.947 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VX013897.D
 Acq: 10 Dec 2019 14:49

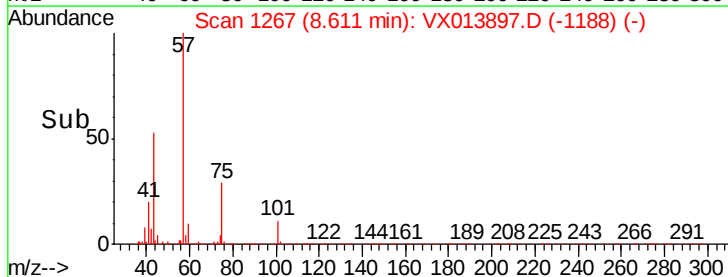
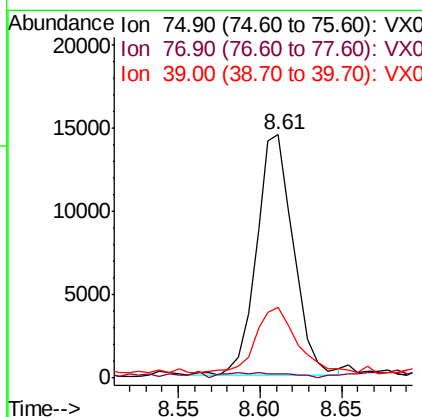
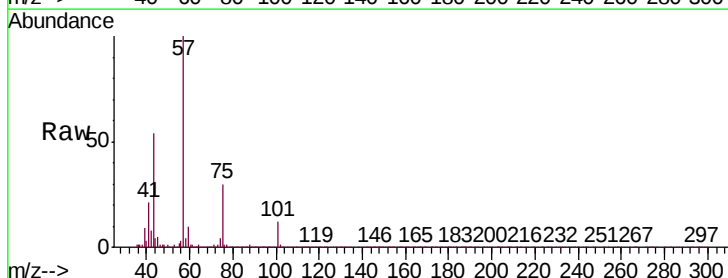
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-GAC3-IDW01

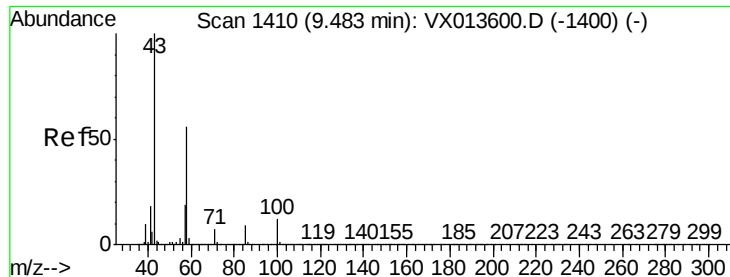
Tgt Ion: 43 Resp: 46746
 Ion Ratio Lower Upper
 43 100
 58 11.4 32.1 48.1#



#54
 cis-1,3-Dichloropropene
 Concen: 2.275 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX013897.D
 Acq: 10 Dec 2019 14:49

Tgt Ion: 75 Resp: 22512
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.8 38.6#
 39 27.2 39.9 59.9#

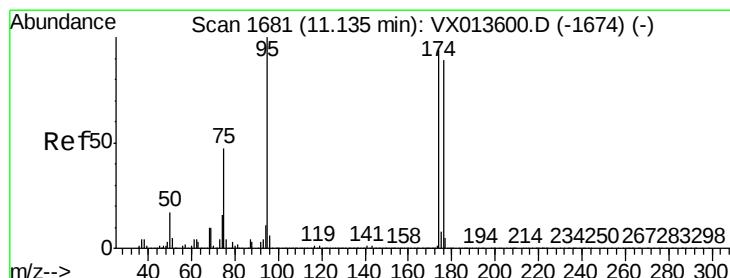
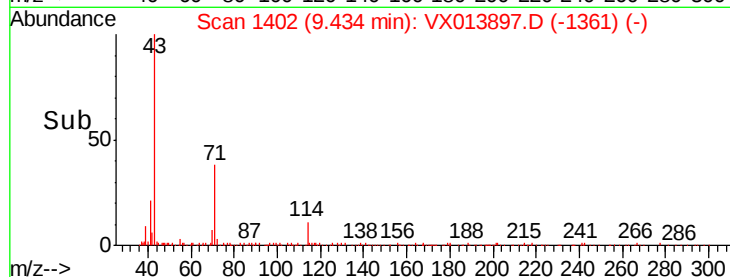
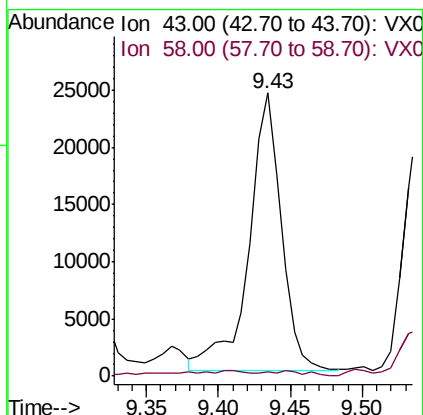
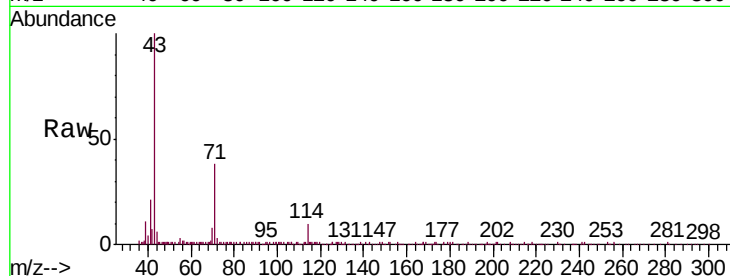




#59
2-Hexanone
Concen: 5.134 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

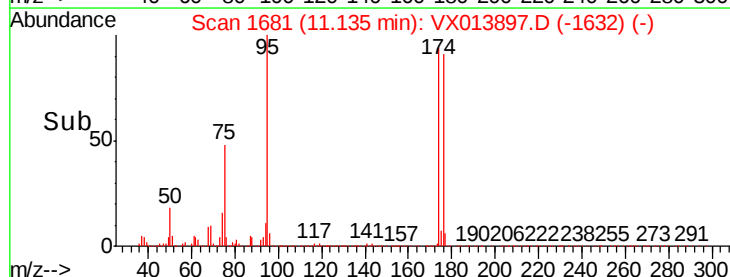
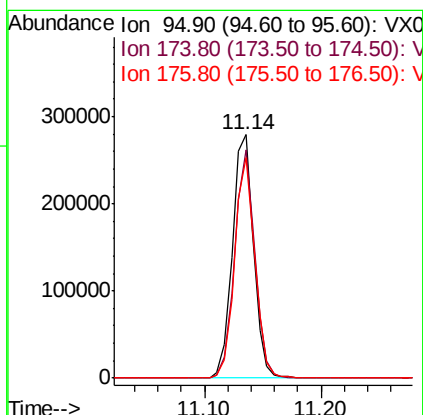
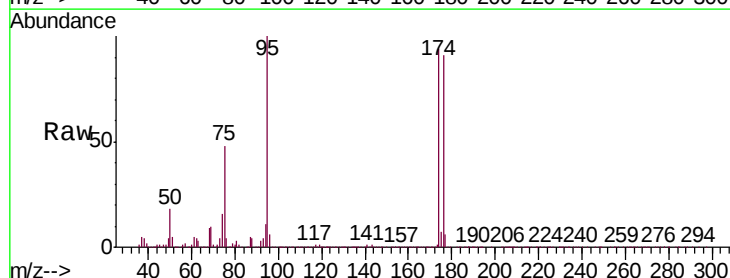
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC3-IDW01

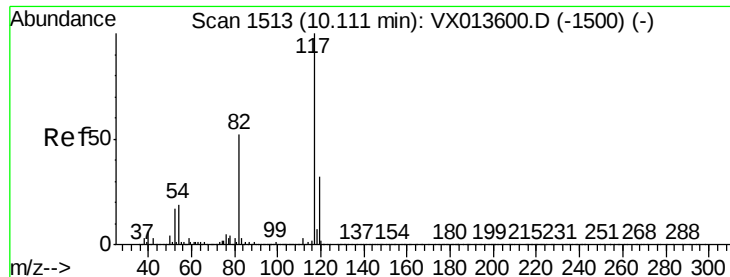
Tgt Ion: 43 Resp: 37839
Ion Ratio Lower Upper
43 100
58 2.4 28.1 84.4#



#62
4-Bromofluorobenzene
Concen: 45.616 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

Tgt Ion: 95 Resp: 355000
Ion Ratio Lower Upper
95 100
174 89.8 0.0 180.0
176 86.8 0.0 173.6

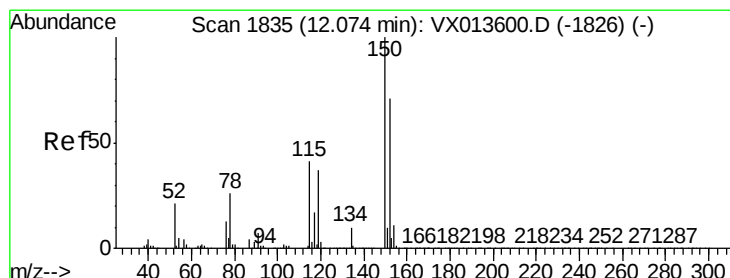
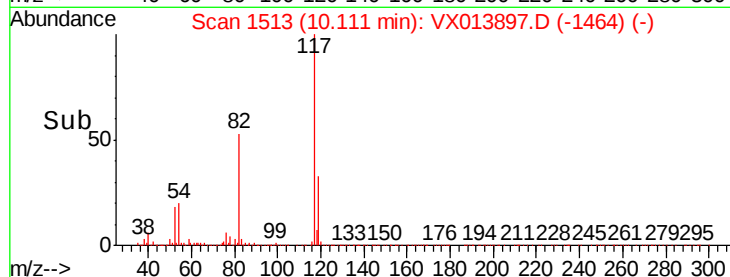
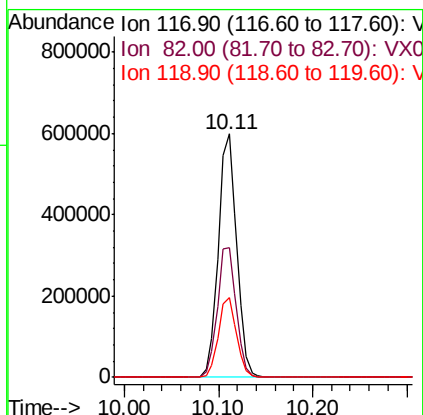
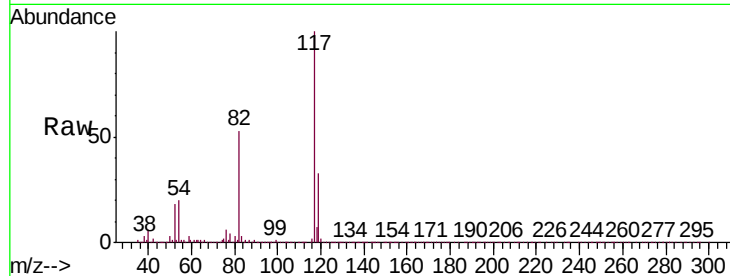




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

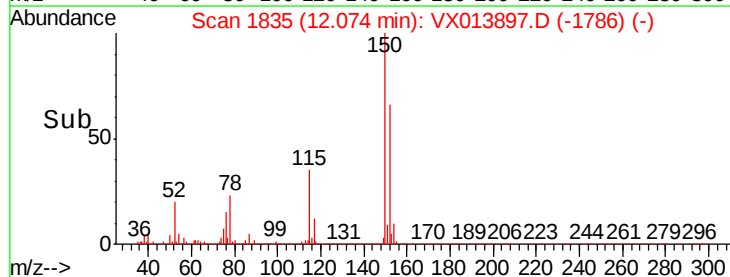
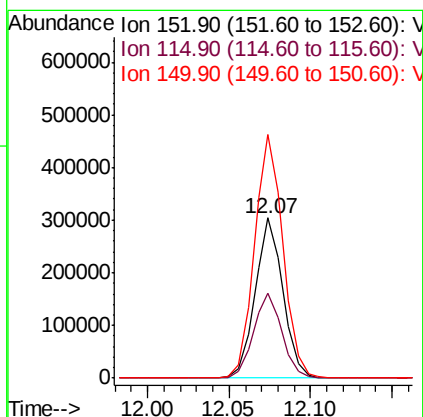
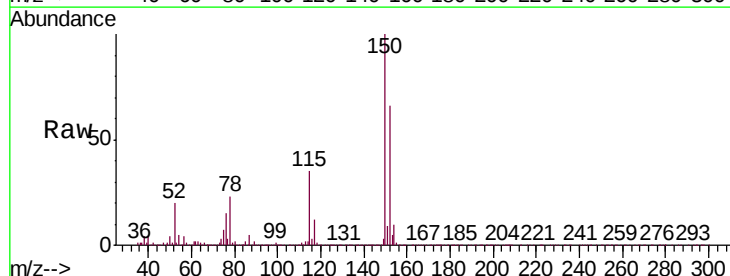
Instrument :
MSVOA_X
ClientSampleId :
S32-GAC3-IDW01

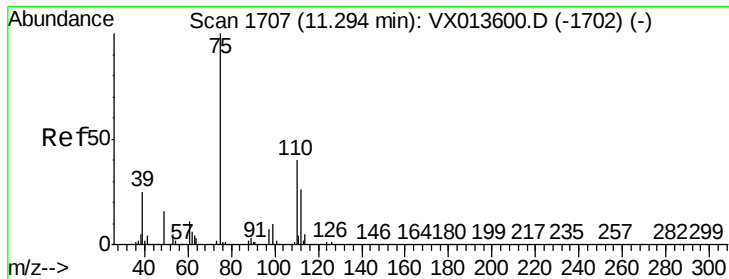
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	41.8	62.8
119	32.7	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013897.D
Acq: 10 Dec 2019 14:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.8	38.4	115.1
150	155.4	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 21.653 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

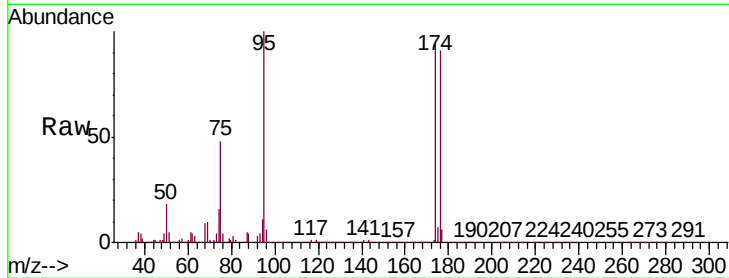
S32-GAC3-IDW01

Tgt Ion: 75 Resp: 174986

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

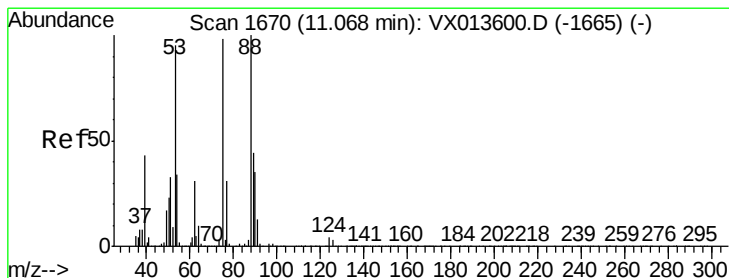
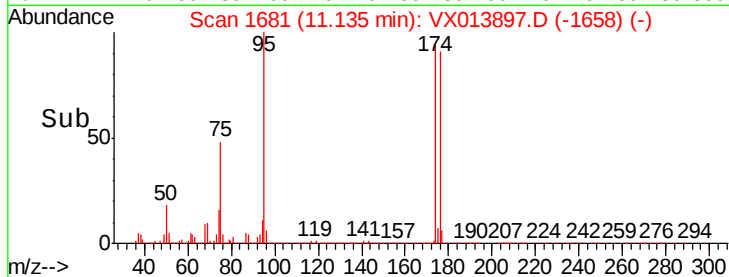
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 59.239 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

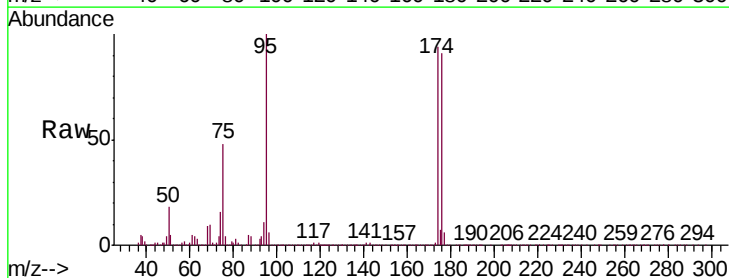
Tgt Ion: 75 Resp: 174986

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

89 0.3 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

11.14

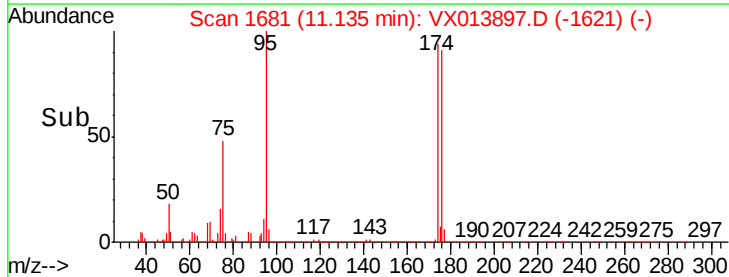
150000

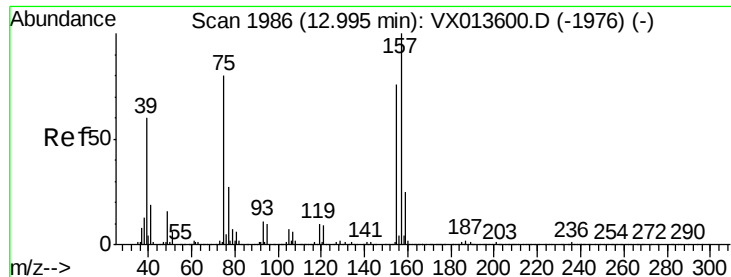
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.235 ug/l

RT: 13.10 min Scan# 2003

Delta R.T. 0.10 min

Lab File: VX013897.D

Acq: 10 Dec 2019 14:49

Instrument :

MSVOA_X

ClientSampleId :

S32-GAC3-IDW01

Tgt Ion: 75 Resp: 447

Ion Ratio Lower Upper

75 100

155 103.6 47.6 142.8

157 89.7 62.1 186.2

