

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010320\
 Data File : VX014411.D
 Acq On : 03 Jan 2020 19:20
 Operator : JC/SP
 Sample : L1009-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

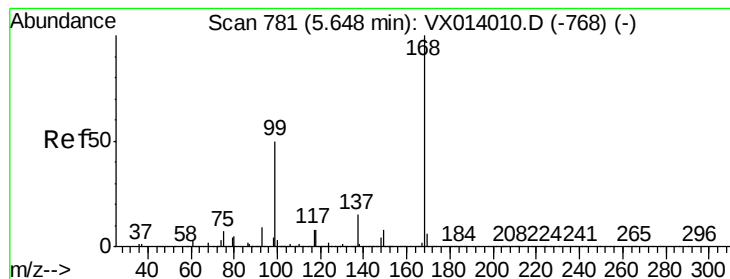
Quant Time: Jan 06 02:35:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	562117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	850239	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	783232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	367880	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	300447	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	
35) Dibromofluoromethane	5.49	113	251466	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
50) Toluene-d8	8.71	98	1019787	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
62) 4-Bromofluorobenzene	11.13	95	352167	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.56	64	16919	3.849	ug/l #	59
8) Diethyl Ether	2.19	74	1193	0.288	ug/l	65
10) Methyl Iodide	2.51	142	394	2.674	ug/l #	38
11) Tert butyl alcohol	3.02	59	8619	6.261	ug/l	97
13) Acrolein	2.29	56	2095	2.659	ug/l #	82
16) Acetone	2.43	43	292571	70.737	ug/l	99
17) Carbon Disulfide	2.56	76	1260	0.833	ug/l #	1
18) Methyl Acetate	2.77	43	5720	0.698	ug/l #	71
20) Methylene Chloride	2.85	84	14991	2.302	ug/l	92
25) 2-Butanone	4.67	43	22876	4.486	ug/l	90
28) Bromochloromethane	5.00	49	658	0.612	ug/l #	52
36) 1,1-Dichloropropene	5.65	75	37289	4.780	ug/l #	51
37) Ethyl Acetate	4.67	43	22876	2.655	ug/l #	71
38) Carbon Tetrachloride	5.65	117	47570	6.693	ug/l #	17
43) Isopropyl Acetate	6.43	43	123151	8.638	ug/l	98
48) Methyl methacrylate	7.67	41	9046	1.296	ug/l #	18
49) 1,4-Dioxane	7.75	88	150	1.056	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	122130	13.640	ug/l #	45
52) Toluene	8.78	92	3374	0.222	ug/l	93
54) cis-1,3-Dichloropropene	8.61	75	55183	5.897	ug/l #	59
59) 2-Hexanone	9.54	43	119106	16.524	ug/l #	51
74) N-amyl acetate	10.82	43	8376	0.690	ug/l #	47
76) 1,2,3-Trichloropropane	11.13	75	171108	21.424	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	171108	60.471	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.81	105	4588	0.210	ug/l	82
95) Naphthalene	13.83	128	64795	2.699	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

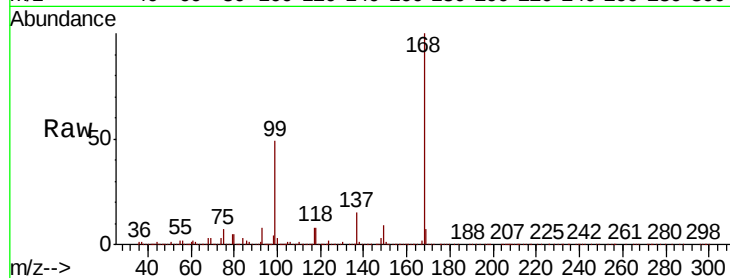
ClientSampled :

Tot Ion:168 Resp: 562117

Ion Ratio Lower Upper

168 100

99 48.6 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

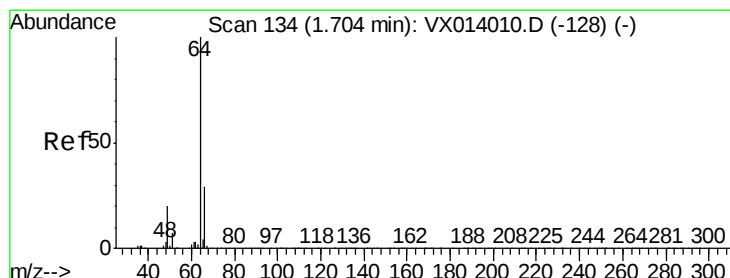
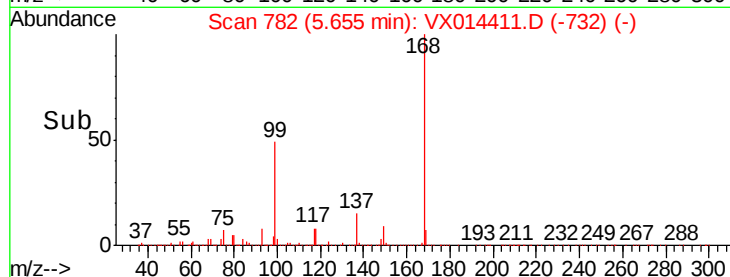
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 3.849 ug/l

RT: 1.56 min Scan# 110

Delta R.T. -0.15 min

Lab File: VX014411.D

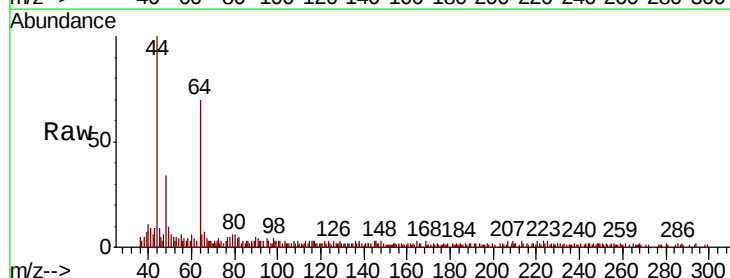
Acq: 03 Jan 2020 19:20

Tgt Ion: 64 Resp: 16919

Ion Ratio Lower Upper

64 100

66 7.2 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.56

5000

4000

3000

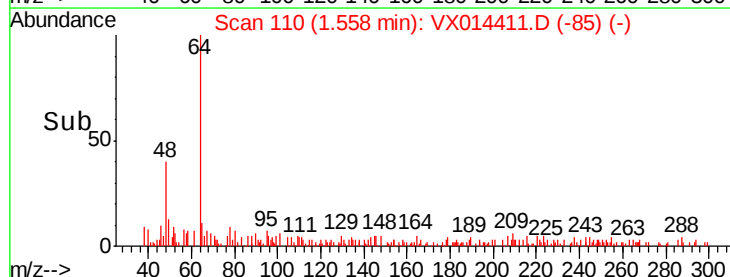
2000

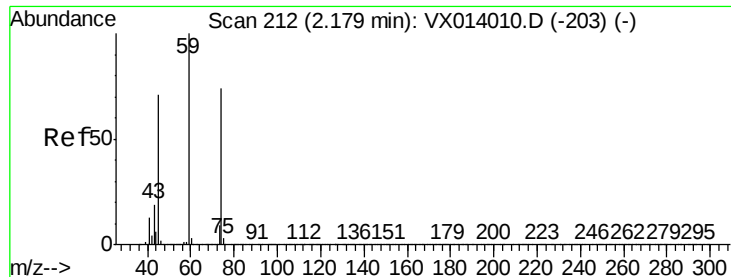
1000

0

Time-->

1.40 1.50 1.60





#8

Diethyl Ether

Concen: 0.288 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

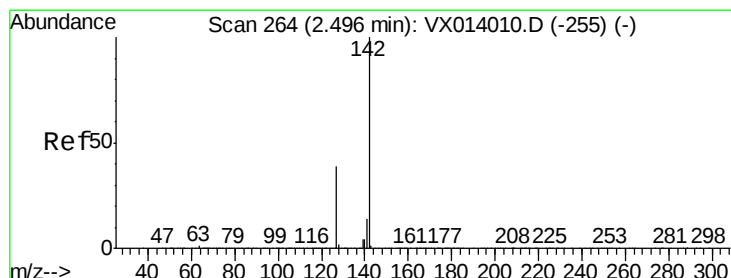
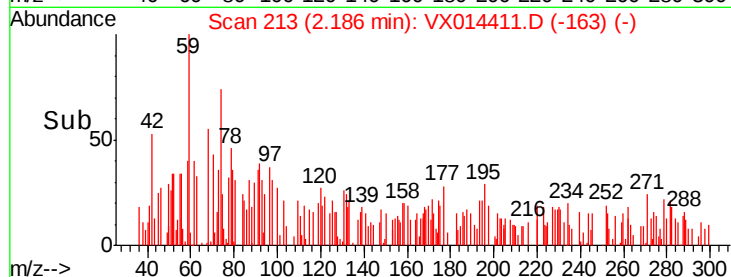
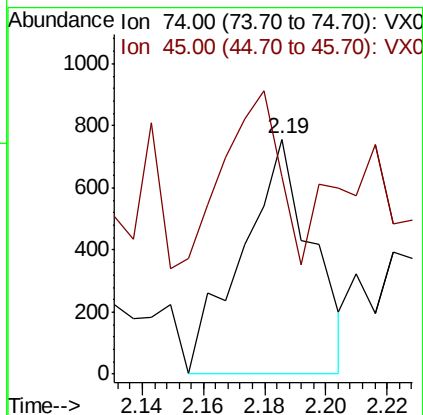
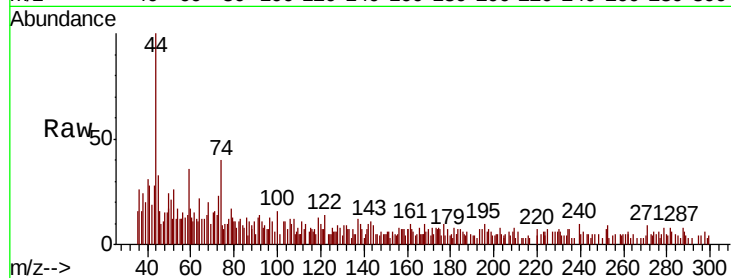
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 74 Resp: 1193

Ion Ratio Lower Upper

74 100

45 62.1 48.1 144.3



#10

Methyl Iodide

Concen: 2.674 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

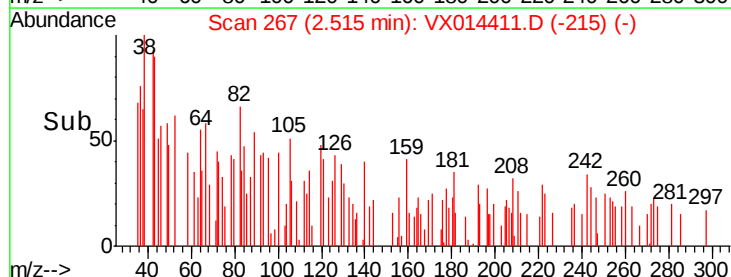
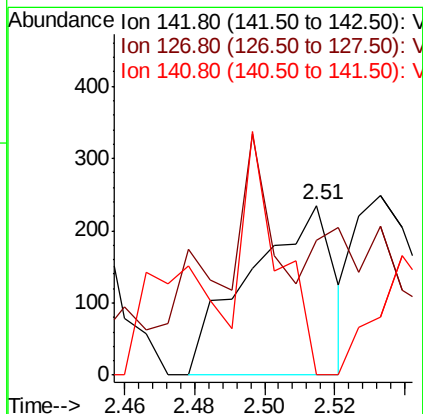
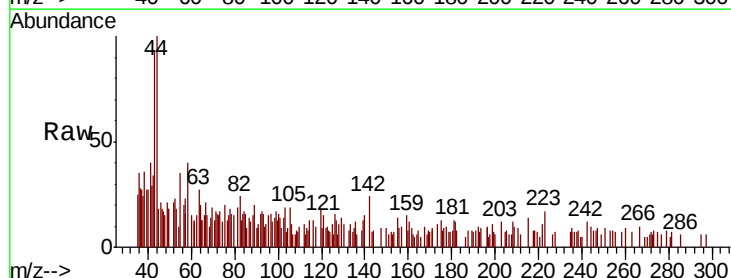
Tgt Ion: 142 Resp: 394

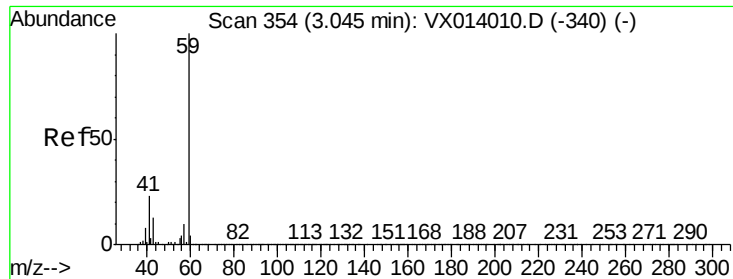
Ion Ratio Lower Upper

142 100

127 66.8 31.6 47.4#

141 59.4 11.6 17.4#

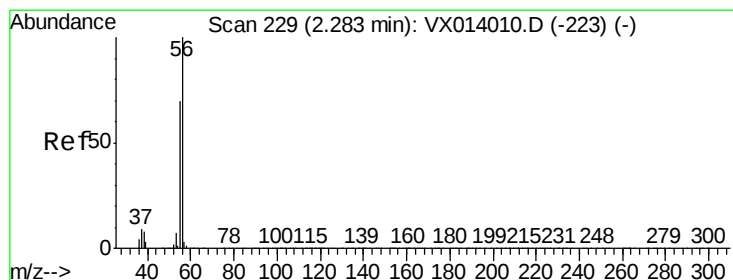
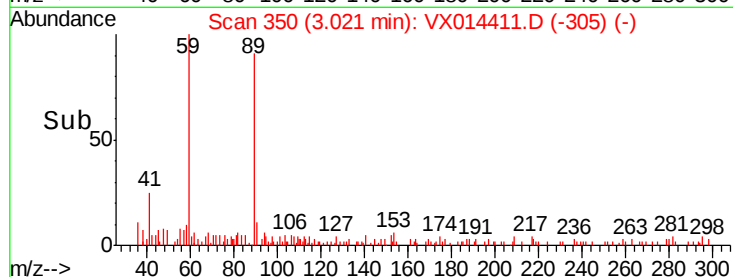
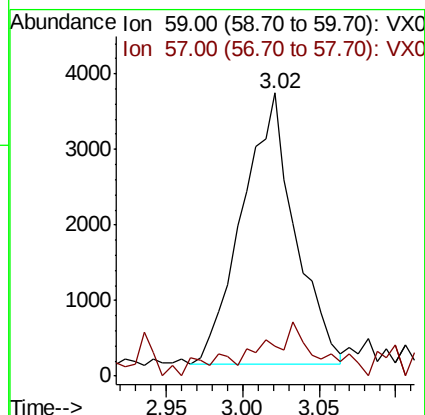
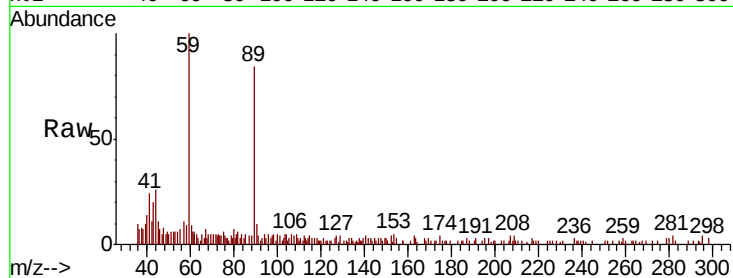




#11
Tert butyl alcohol
Concen: 6.261 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014411.D
Acq: 03 Jan 2020 19:20

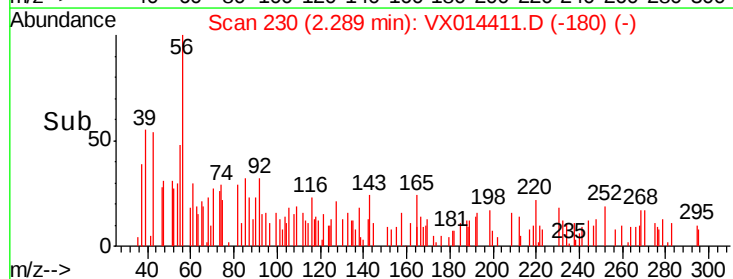
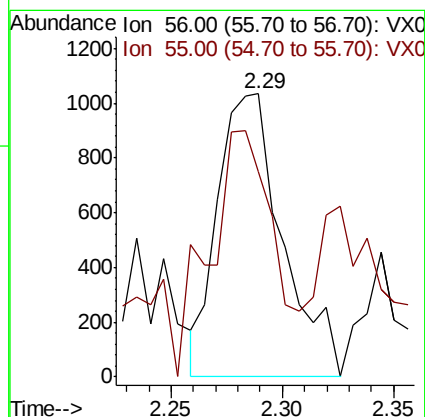
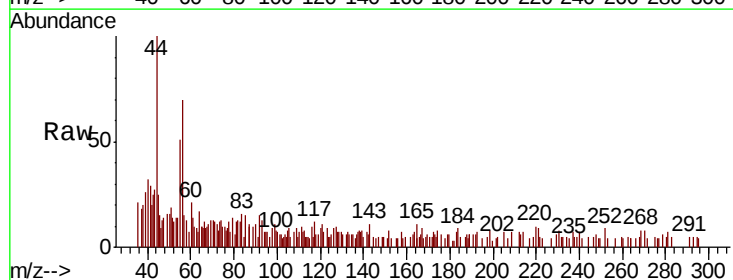
Instrument :
MSVOA_X
ClientSampleId :

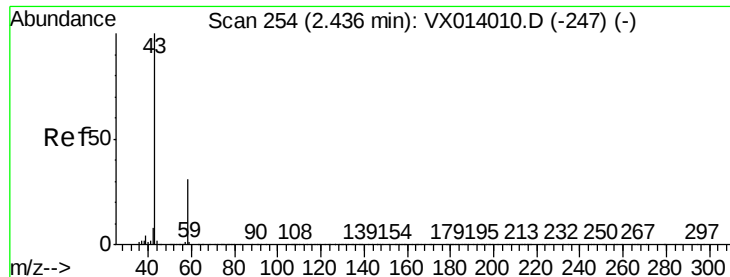
Tot Ion: 59 Resp: 8619
Ion Ratio Lower Upper
59 100
57 9.4 8.4 12.6



#13
Acrolein
Concen: 2.659 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014411.D
Acq: 03 Jan 2020 19:20

Tgt Ion: 56 Resp: 2095
Ion Ratio Lower Upper
56 100
55 86.3 56.9 85.3#





#16

Acetone

Concen: 70.737 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

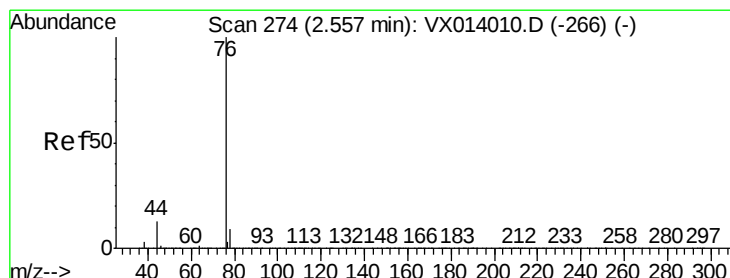
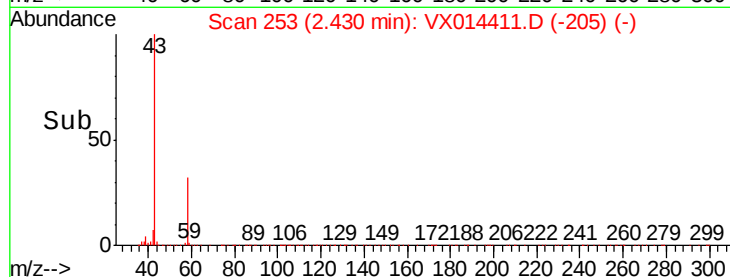
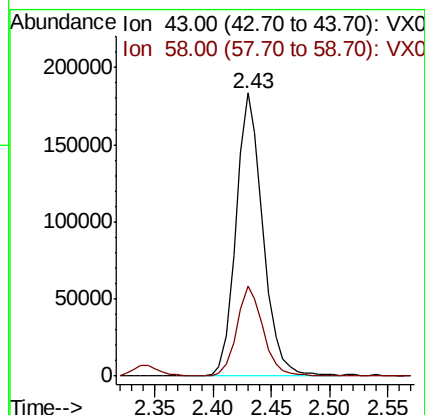
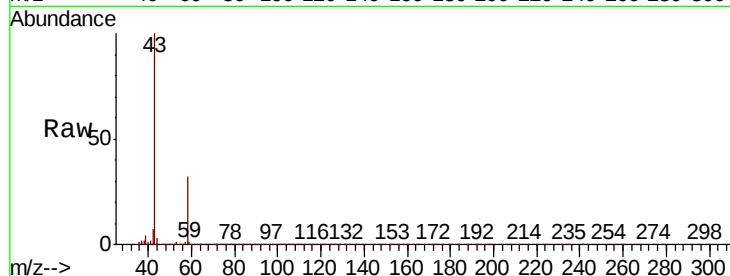
ClientSampleId :

Tot Ion: 43 Resp: 292571

Ion Ratio Lower Upper

43 100

58 31.5 24.9 37.3



#17

Carbon Disulfide

Concen: 0.833 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014411.D

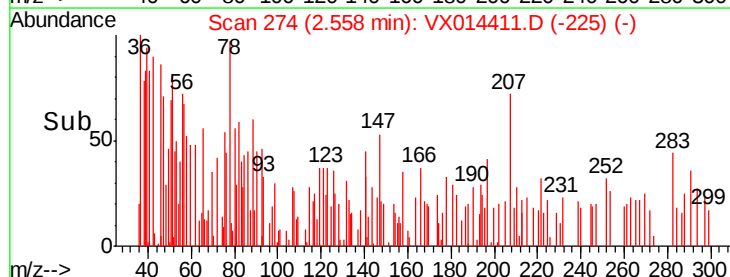
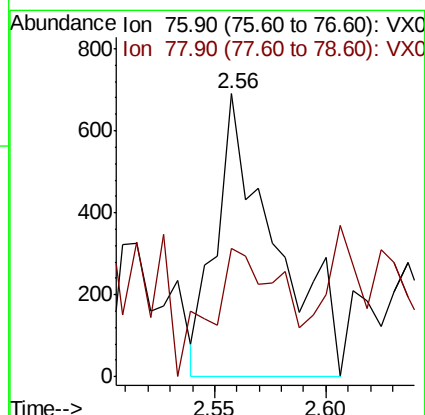
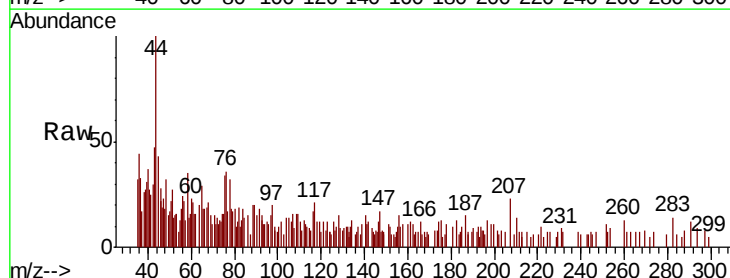
Acq: 03 Jan 2020 19:20

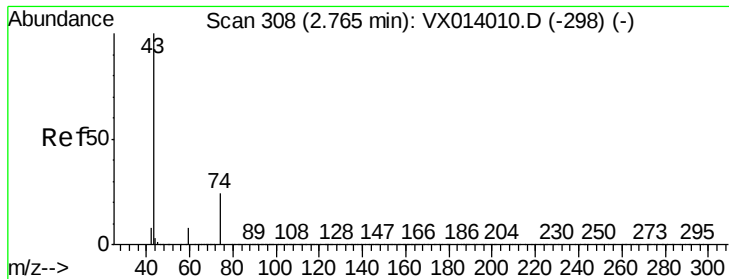
Tgt Ion: 76 Resp: 1260

Ion Ratio Lower Upper

76 100

78 47.5 7.2 10.8#

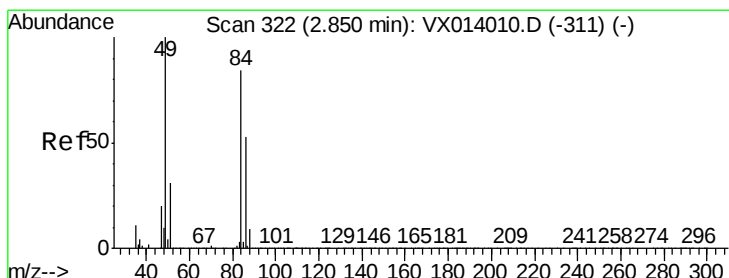
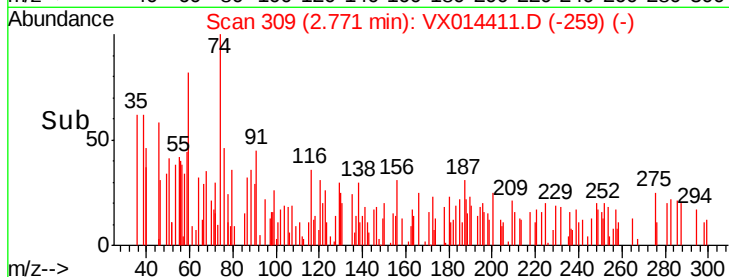
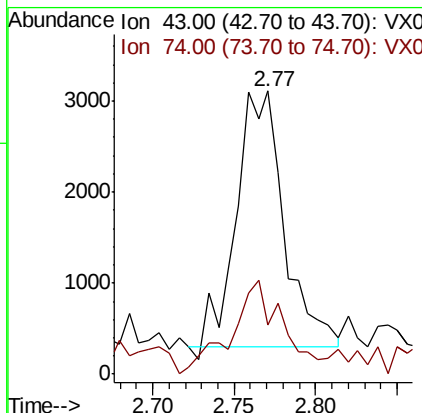
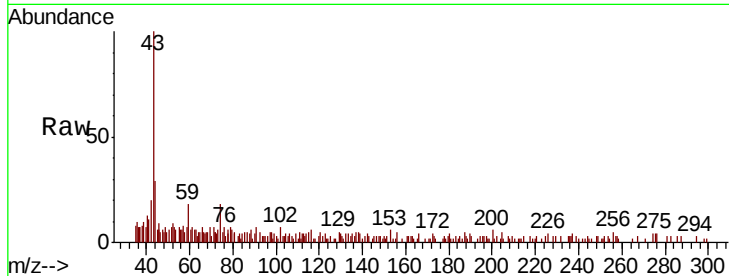




#18
Methyl Acetate
Concen: 0.698 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX014411.D
Acq: 03 Jan 2020 19:20

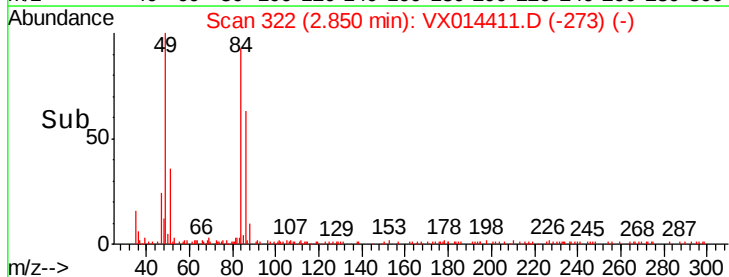
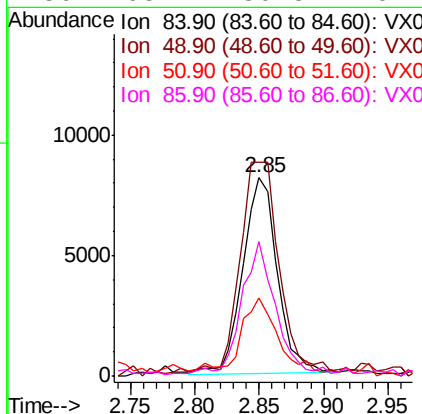
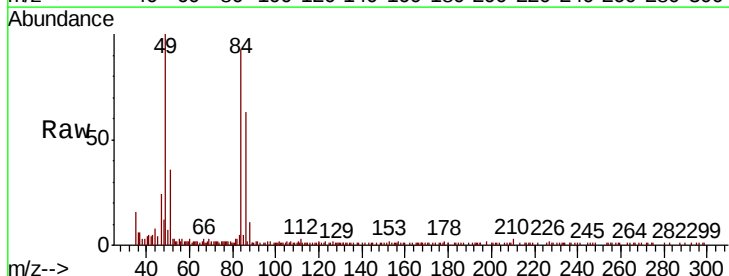
Instrument :
MSVOA_X
ClientSampled :

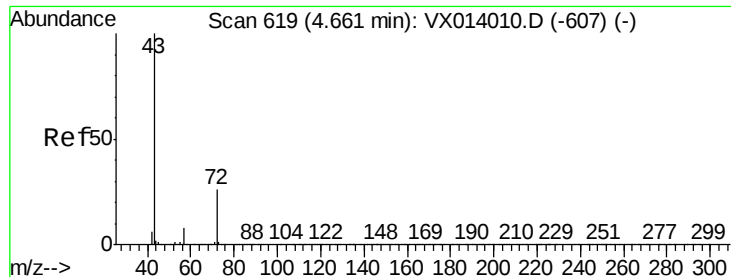
Tot Ion: 43 Resp: 5720
Ion Ratio Lower Upper
43 100
74 39.0 19.5 29.3#



#20
Methylene Chloride
Concen: 2.302 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014411.D
Acq: 03 Jan 2020 19:20

Tgt Ion: 84 Resp: 14991
Ion Ratio Lower Upper
84 100
49 107.8 95.8 143.6
51 37.8 29.8 44.8
86 68.2 50.8 76.2





#25

2-Butanone

Concen: 4.486 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

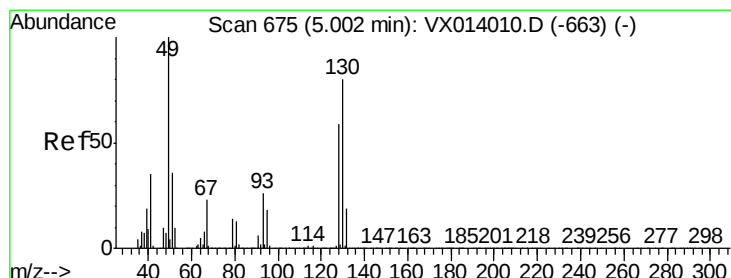
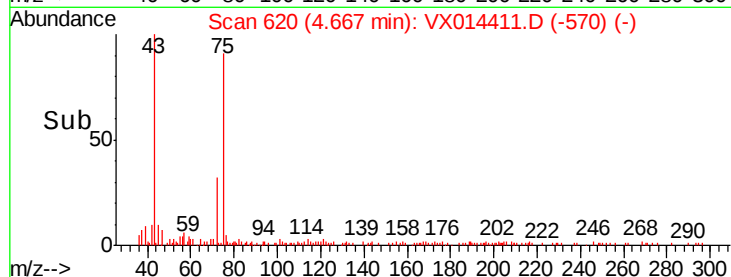
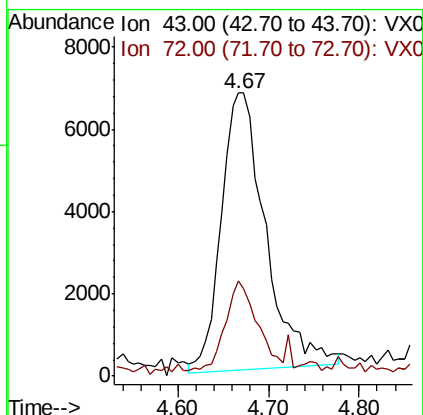
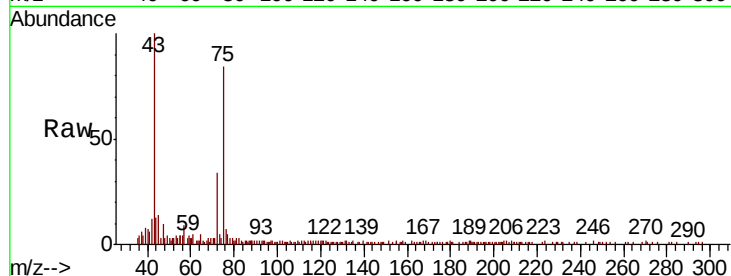
ClientSampleId :

Tot Ion: 43 Resp: 22876

Ion Ratio Lower Upper

43 100

72 31.4 21.0 31.4



#28

Bromochloromethane

Concen: 0.612 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

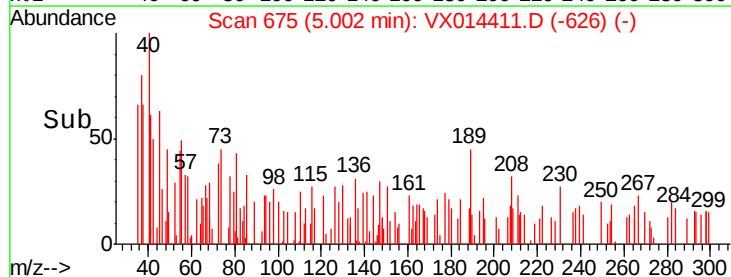
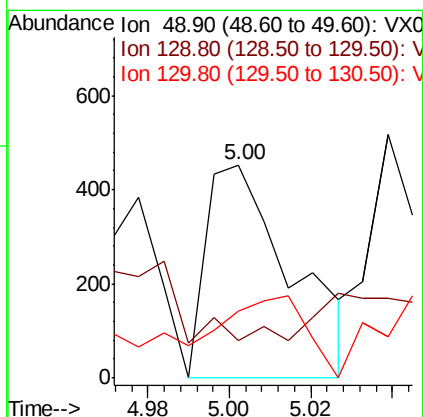
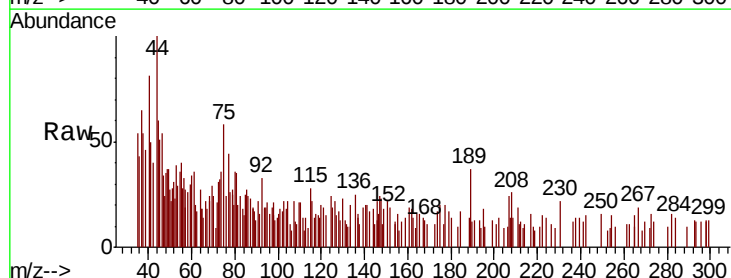
Tgt Ion: 49 Resp: 658

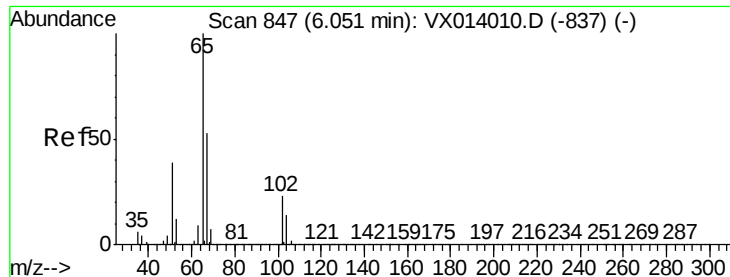
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 36.9 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 47.160 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

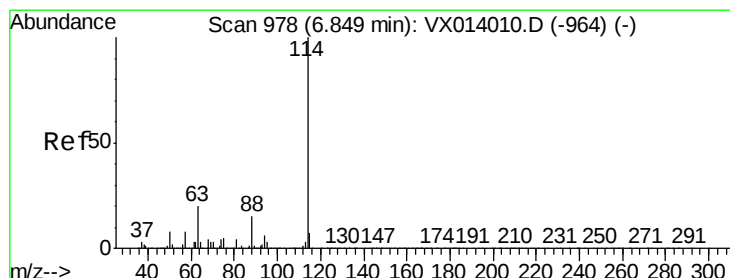
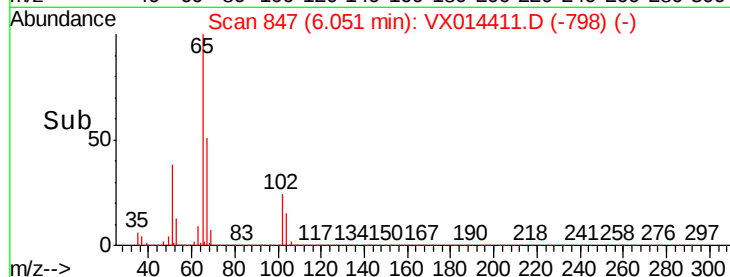
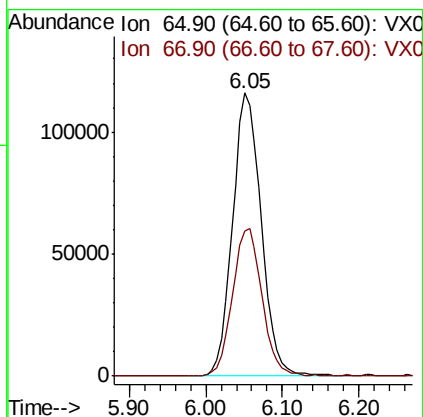
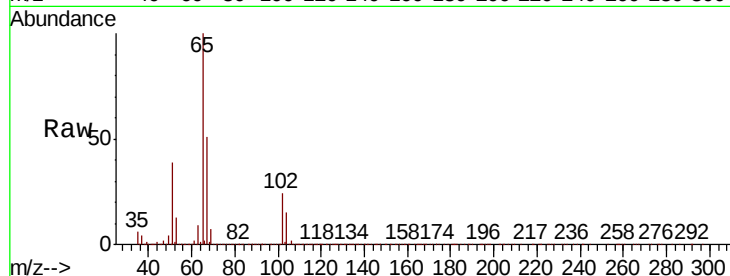
ClientSampleId :

Tot Ion: 65 Resp: 300447

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

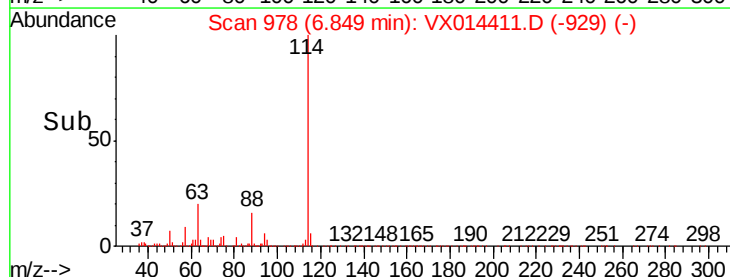
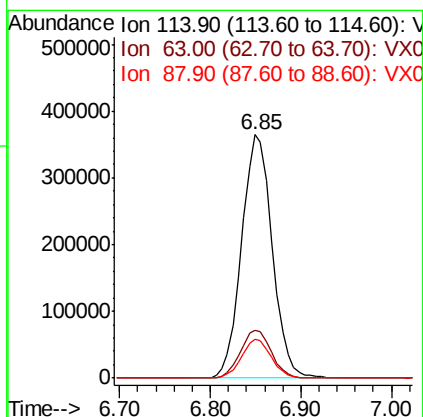
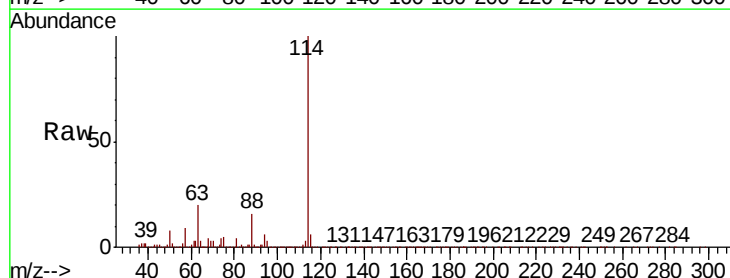
Tgt Ion: 114 Resp: 850239

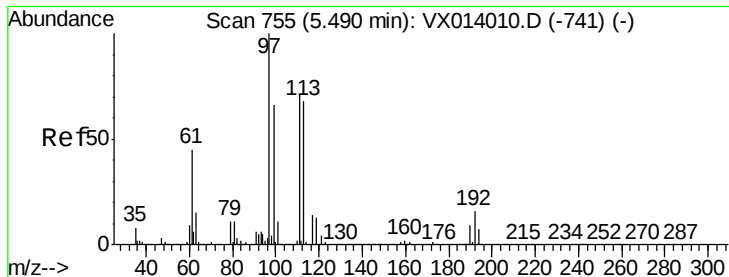
Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.8

88 15.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.653 ug/l

RT: 5.49 min Scan# 755

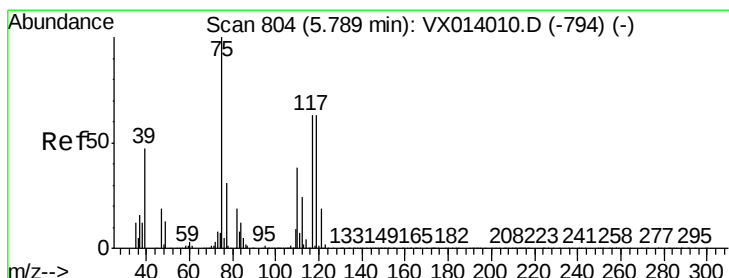
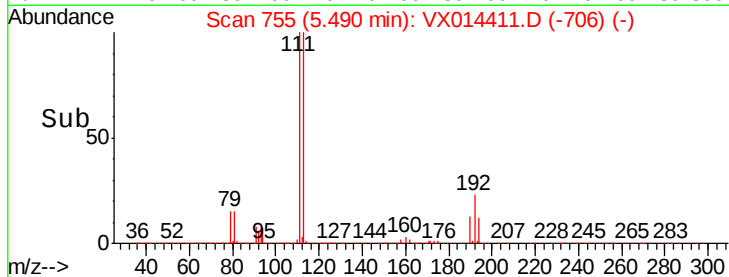
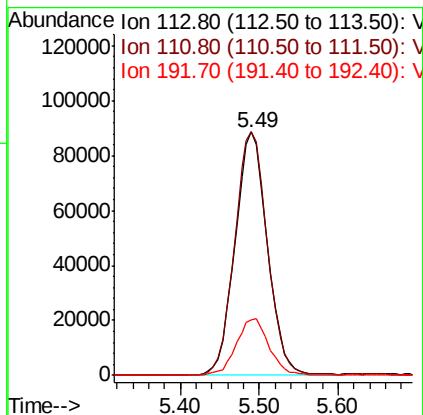
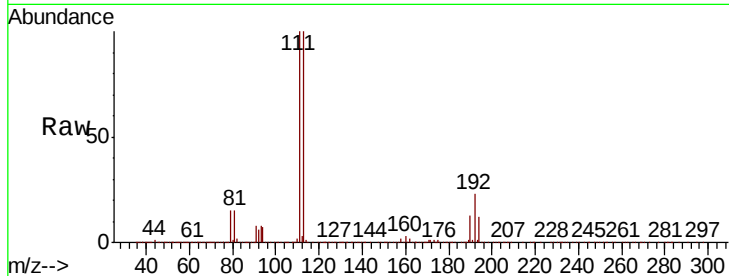
Delta R.T. 0.00 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	113	Resp:	251466
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.0	123.0
192	23.6	19.3	28.9



#36

1,1-Dichloropropene

Concen: 4.780 ug/l

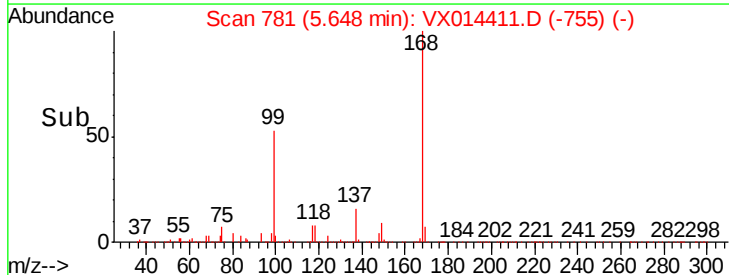
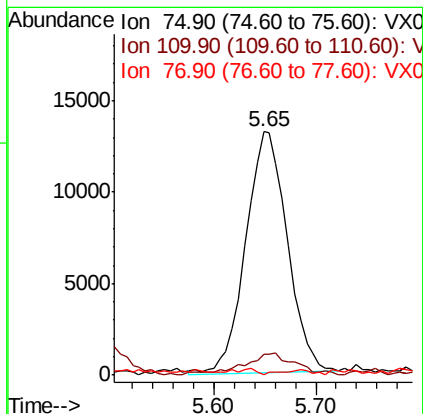
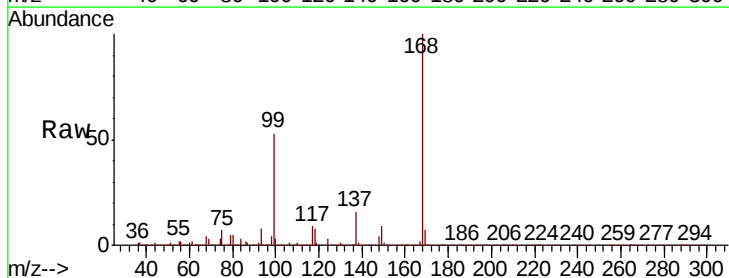
RT: 5.65 min Scan# 781

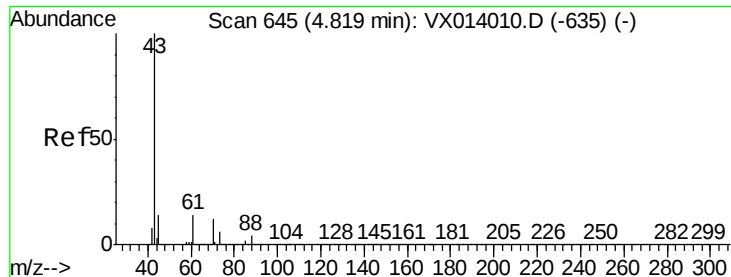
Delta R.T. -0.14 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Tgt Ion:	75	Resp:	37289
Ion	Ratio	Lower	Upper
75	100		
110	11.5	18.3	54.9#
77	0.0	24.8	37.2#

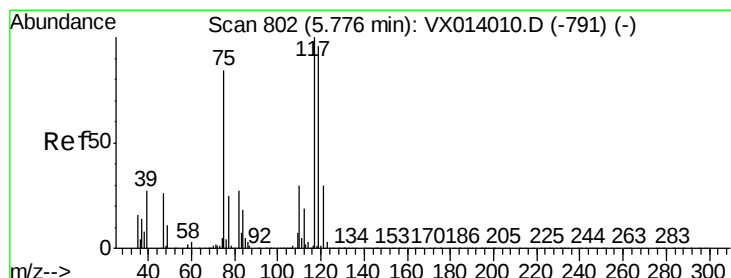
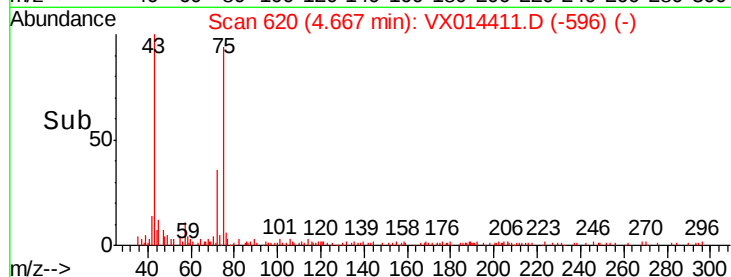
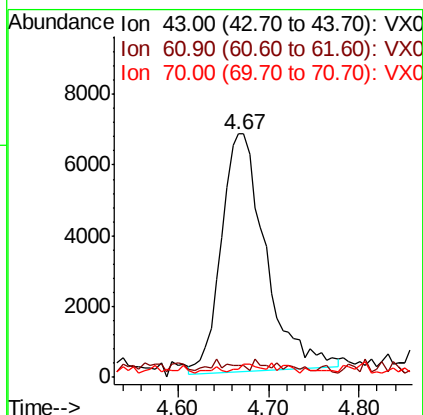
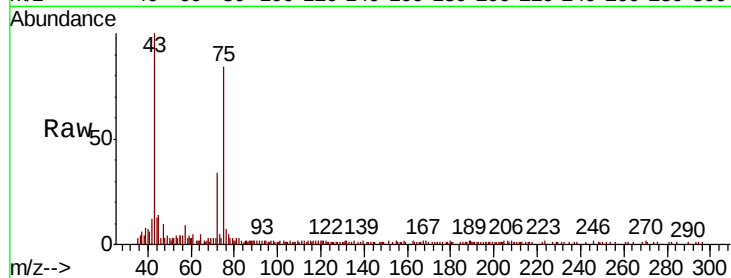




#37
Ethyl Acetate
Concen: 2.655 ug/l
RT: 4.67 min Scan# 620
Delta R.T. -0.15 min
Lab File: VX014411.D
Acq: 03 Jan 2020 19:20

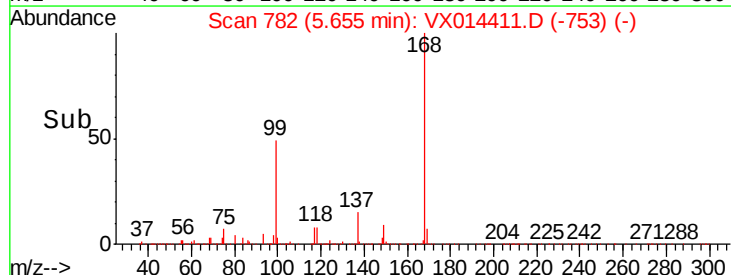
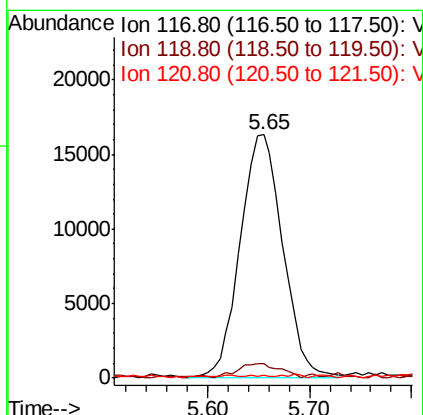
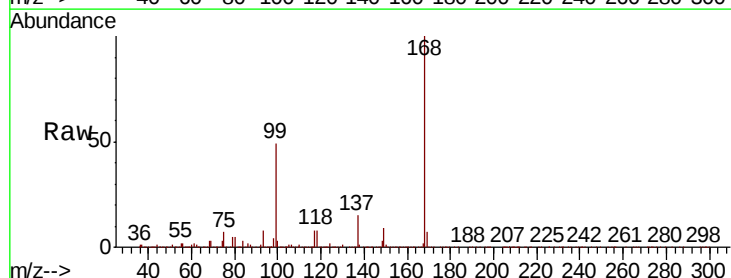
Instrument :
MSVOA_X
ClientSampleId :

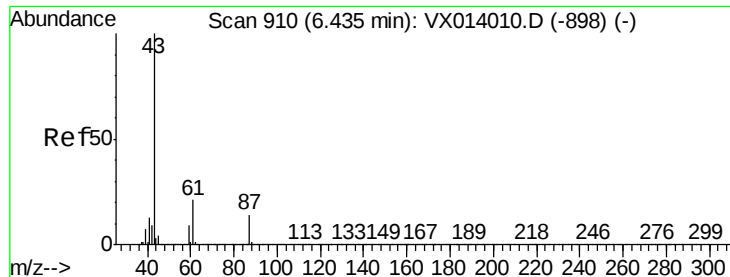
Tot Ion: 43 Resp: 22876
Ion Ratio Lower Upper
43 100
61 1.0 10.8 16.2#
70 1.2 8.6 12.8#



#38
Carbon Tetrachloride
Concen: 6.693 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014411.D
Acq: 03 Jan 2020 19:20

Tgt Ion: 117 Resp: 47570
Ion Ratio Lower Upper
117 100
119 5.5 76.2 114.4#
121 1.1 23.6 35.4#



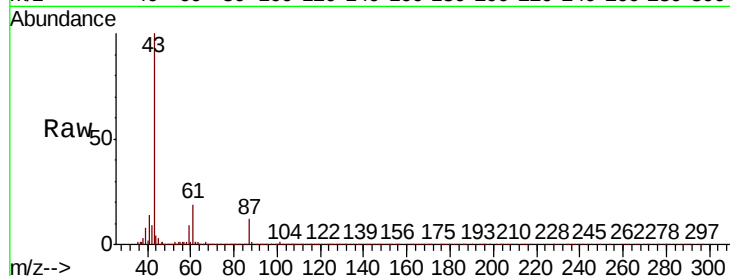


#43

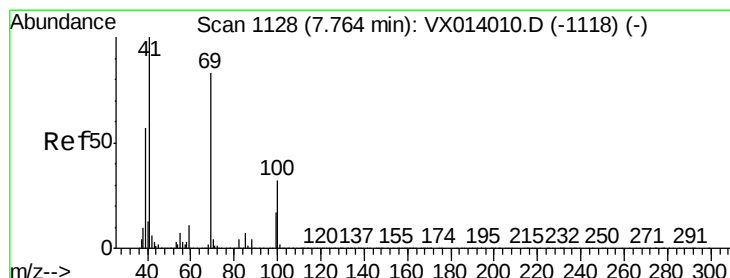
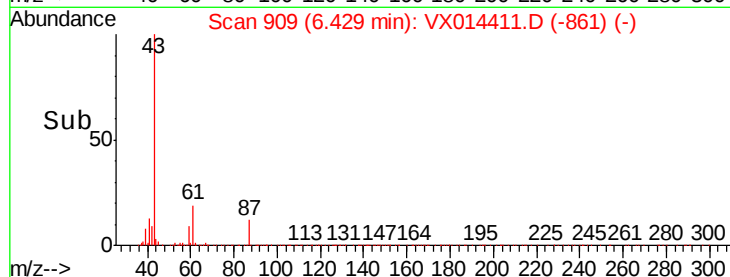
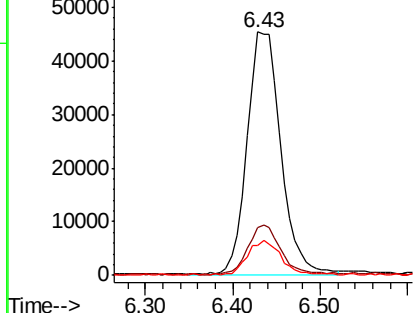
Isopropyl Acetate
 Concen: 8.638 ug/l
 RT: 6.43 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: VX014411.D
 Acq: 03 Jan 2020 19:20

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.6	16.4	24.6
87	13.9	10.7	16.1



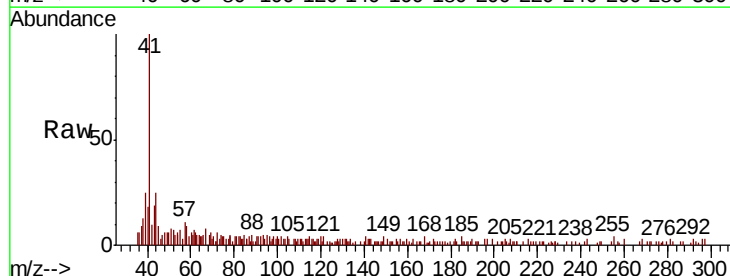
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



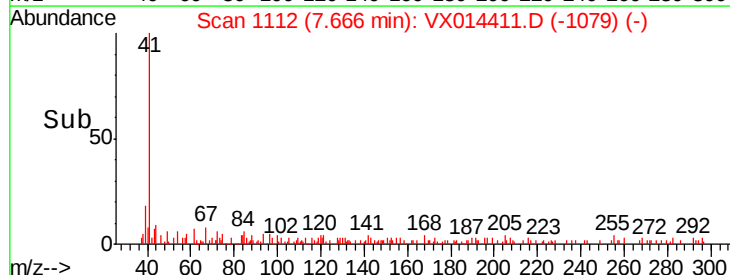
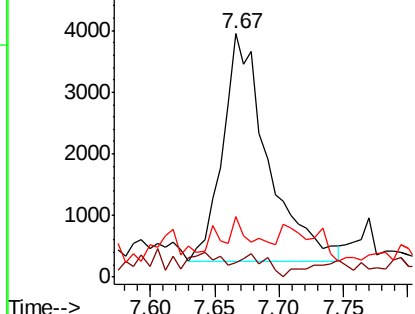
#48

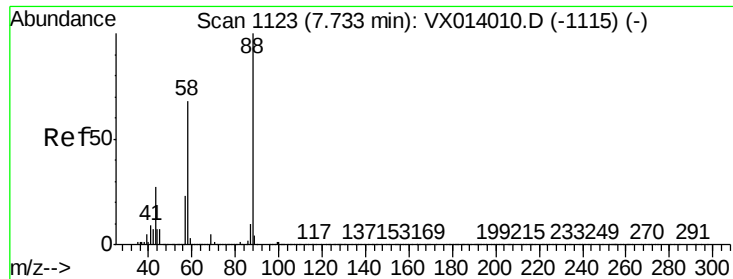
Methyl methacrylate
 Concen: 1.296 ug/l
 RT: 7.67 min Scan# 1112
 Delta R.T. -0.10 min
 Lab File: VX014411.D
 Acq: 03 Jan 2020 19:20

Tgt Ion	Ratio	Lower	Upper
41	100		
69	5.3	65.8	98.6#
39	0.0	44.6	67.0#



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: 1.056 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampled :

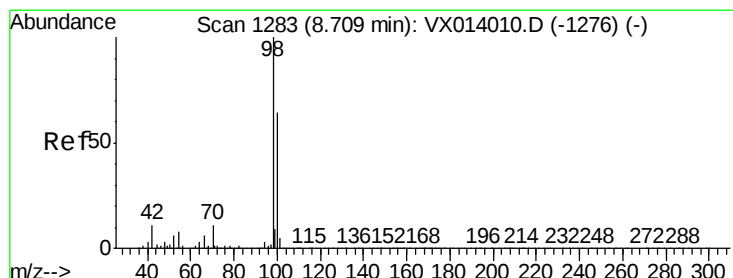
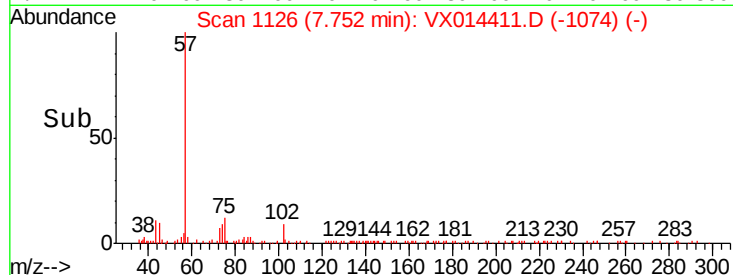
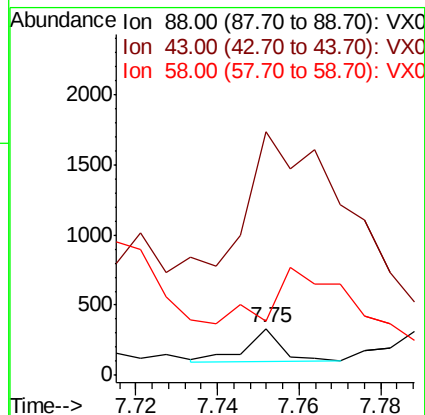
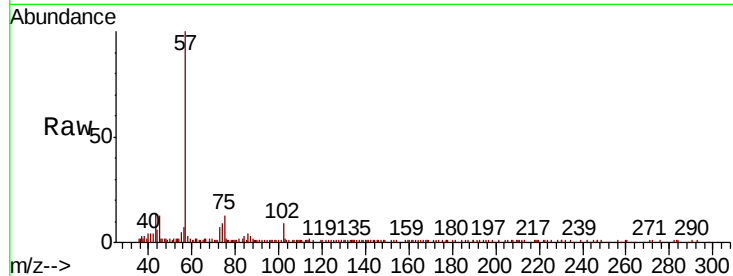
Tot Ion: 88 Resp: 150

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 510.0 56.8 85.2#



#50

Toluene-d8

Concen: 50.679 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014411.D

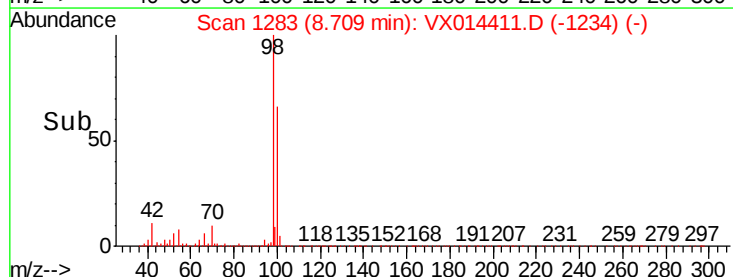
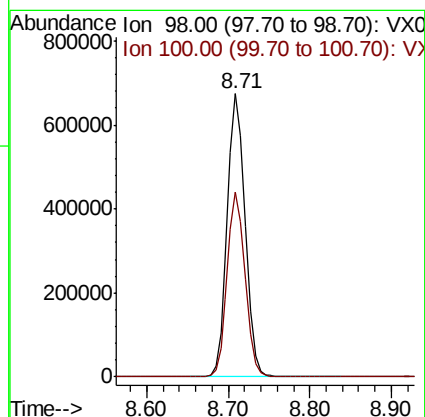
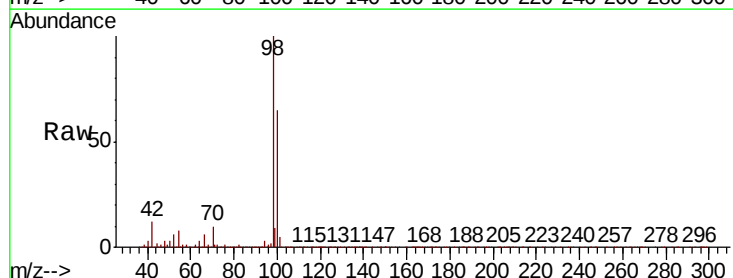
Acq: 03 Jan 2020 19:20

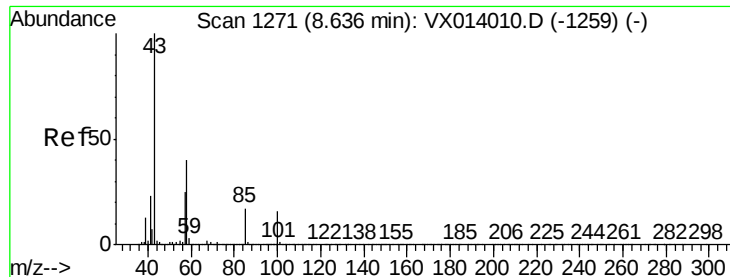
Tgt Ion: 98 Resp: 1019787

Ion Ratio Lower Upper

98 100

100 65.2 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 13.640 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

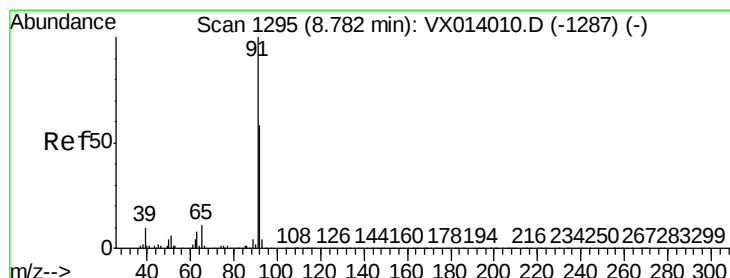
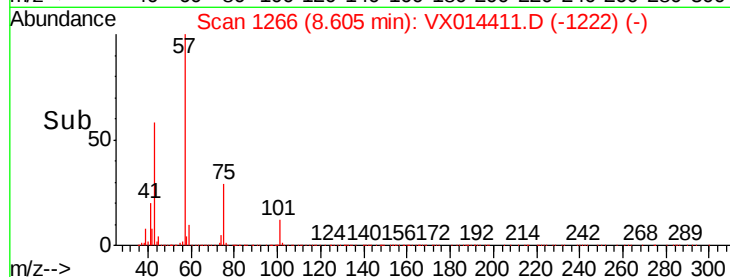
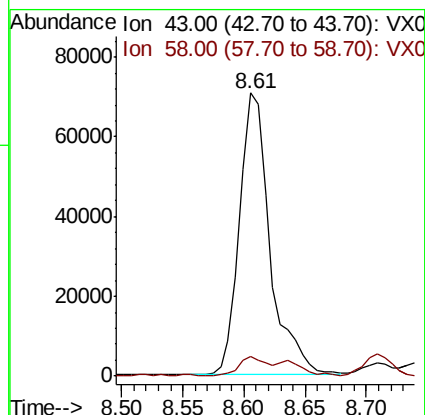
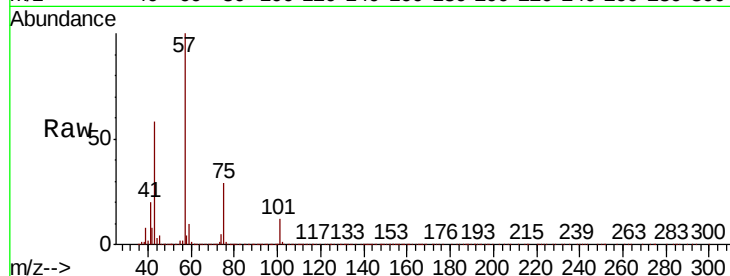
ClientSampleId :

Tot Ion: 43 Resp: 122130

Ion Ratio Lower Upper

43 100

58 6.4 32.2 48.2#



#52

Toluene

Concen: 0.222 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX014411.D

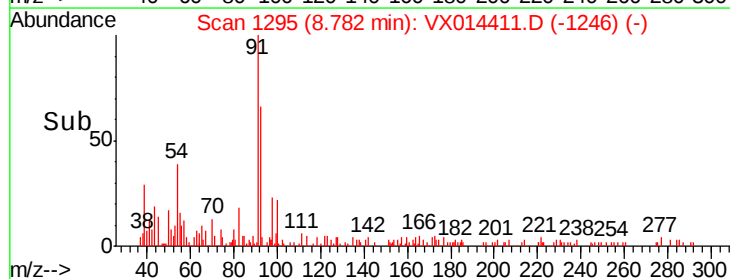
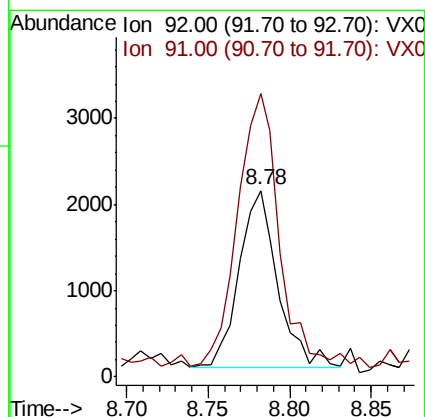
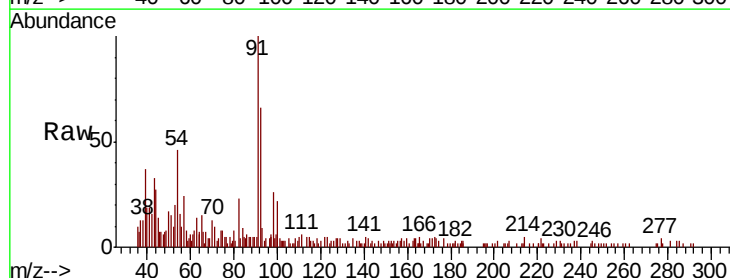
Acq: 03 Jan 2020 19:20

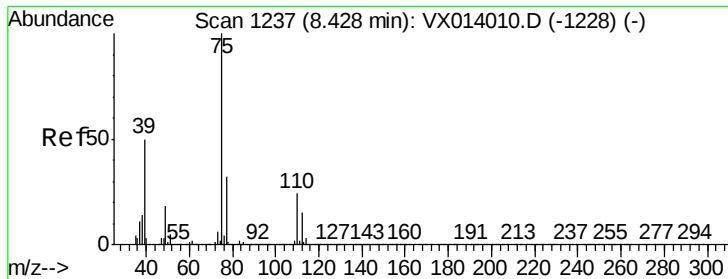
Tgt Ion: 92 Resp: 3374

Ion Ratio Lower Upper

92 100

91 179.4 136.2 204.4



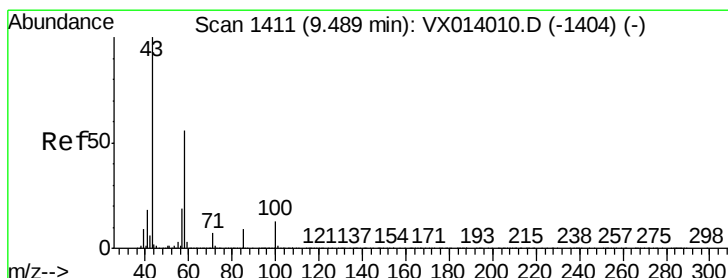
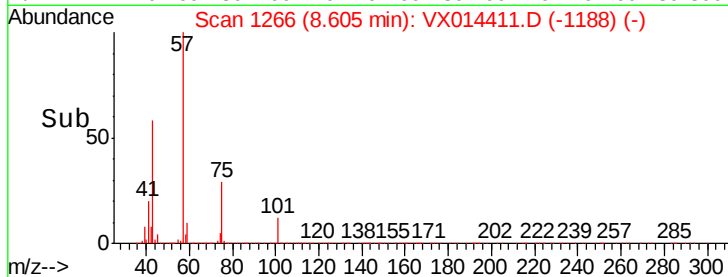
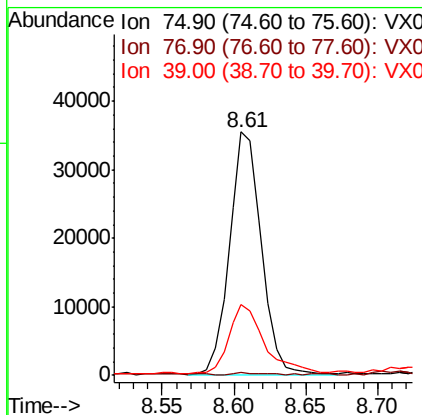
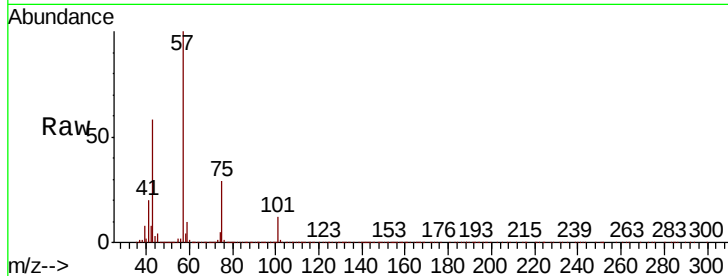


#54

cis-1,3-Dichloropropene
 Concen: 5.897 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX014411.D
 Acq: 03 Jan 2020 19:20

Instrument :
 MSVOA_X
 ClientSampleId :

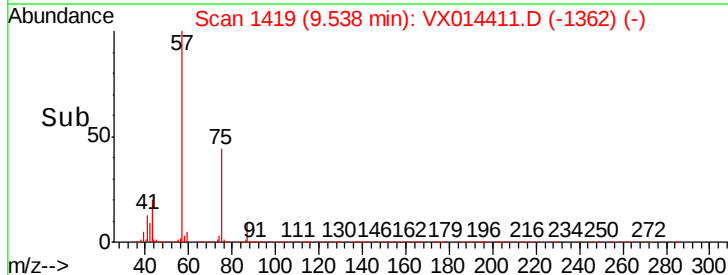
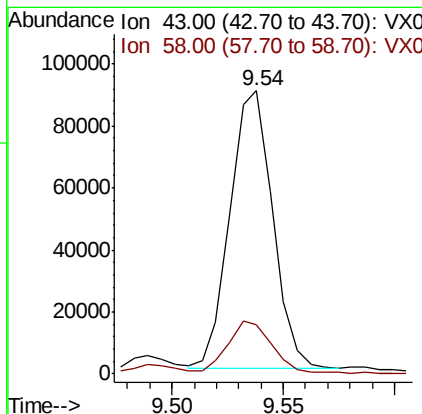
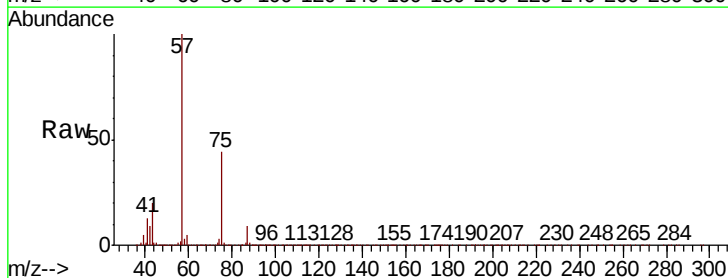
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.3	37.9#
39	28.1	39.9	59.9#

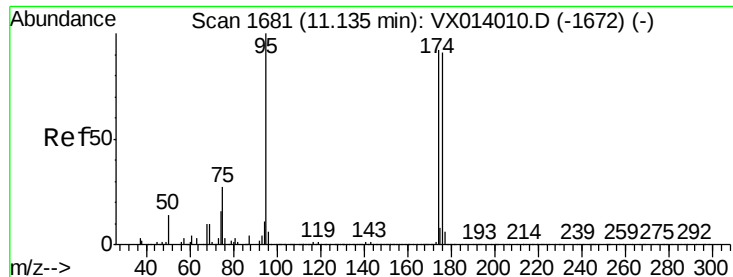


#59

2-Hexanone
 Concen: 16.524 ug/l
 RT: 9.54 min Scan# 1419
 Delta R.T. 0.05 min
 Lab File: VX014411.D
 Acq: 03 Jan 2020 19:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	20.2	28.0	84.0#





#62

4-Bromofluorobenzene

Concen: 47.877 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014411.D

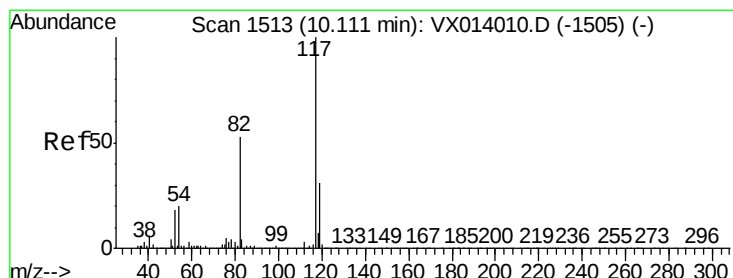
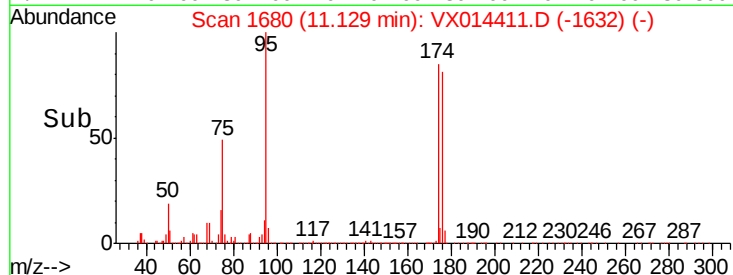
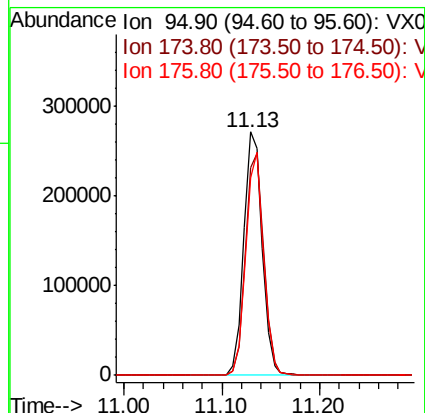
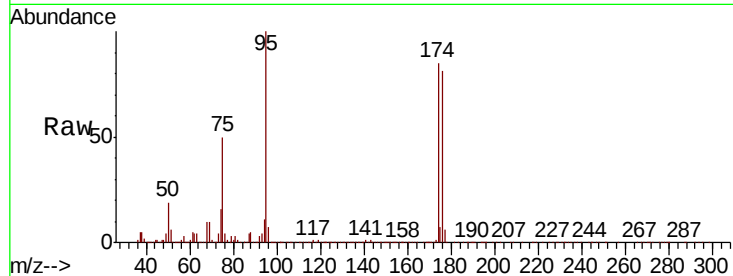
Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	95	Resp:	352167
Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	175.8
176	88.8	0.0	173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

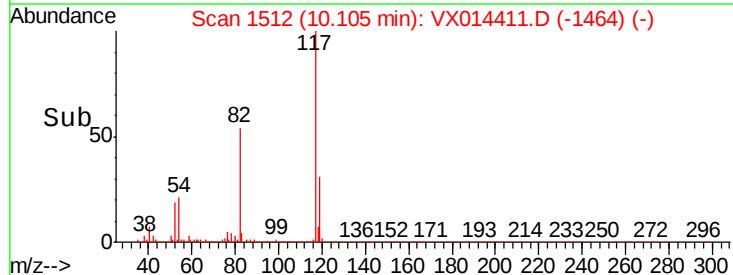
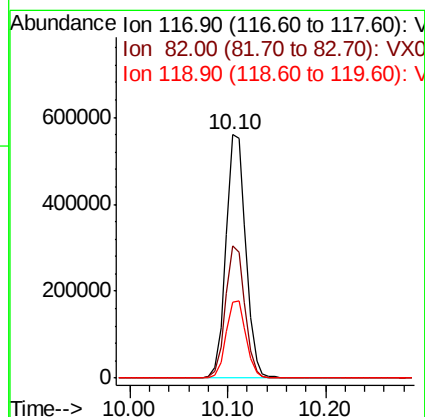
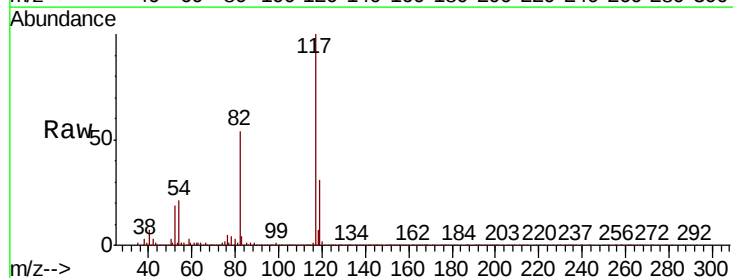
RT: 10.10 min Scan# 1512

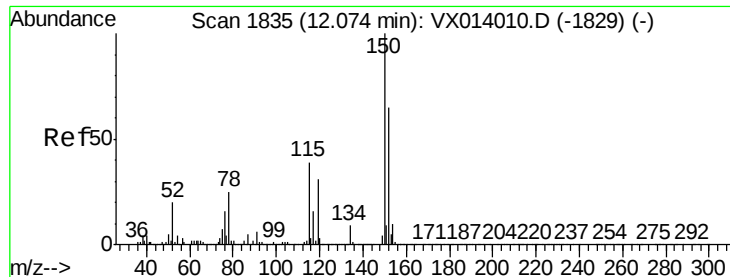
Delta R.T. -0.01 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Tgt Ion:	117	Resp:	783232
Ion	Ratio	Lower	Upper
117	100		
82	54.2	42.2	63.4
119	31.0	25.1	37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

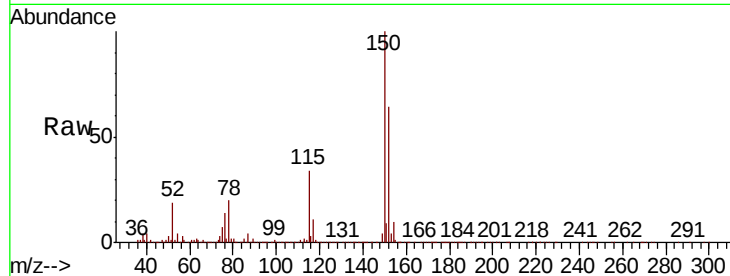
Tot Ion:152 Resp: 367880

Ion Ratio Lower Upper

152 100

115 53.4 38.3 114.9

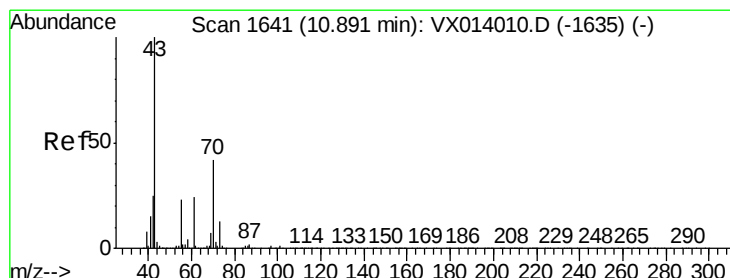
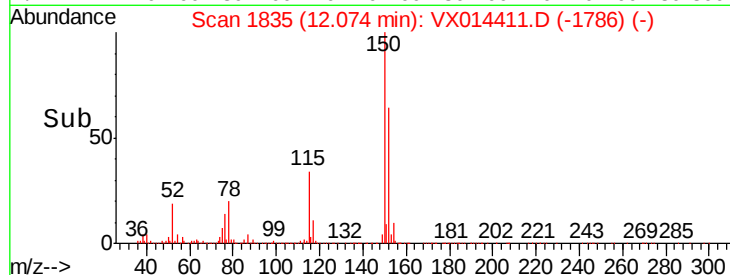
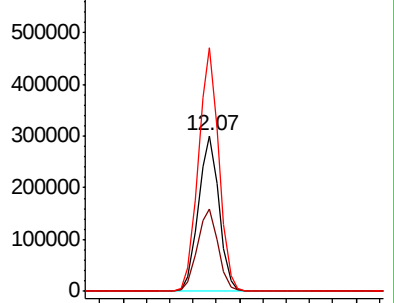
150 155.0 0.0 345.4



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



#74

N-amil acetate

Concen: 0.690 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Tgt Ion: 43 Resp: 8376

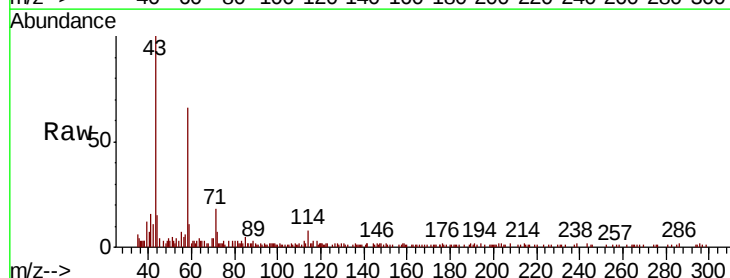
Ion Ratio Lower Upper

43 100

70 0.0 34.4 51.6#

55 8.8 19.1 28.7#

61 0.0 19.7 29.5#

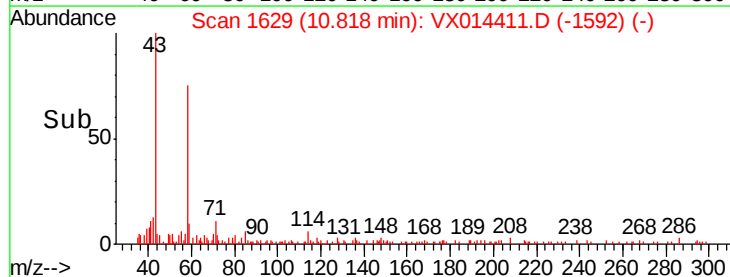
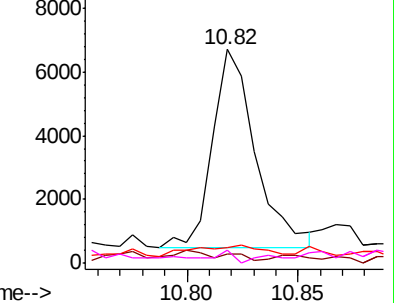


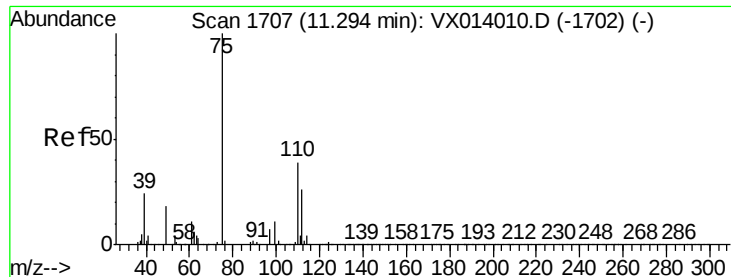
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.424 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

Instrument :

MSVOA_X

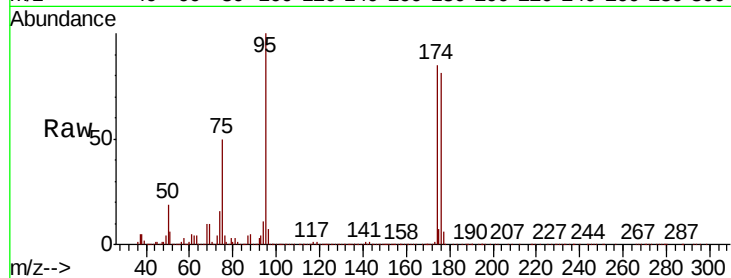
ClientSampleId :

Tot Ion: 75 Resp: 171108

Ion Ratio Lower Upper

75 100

77 1.4 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

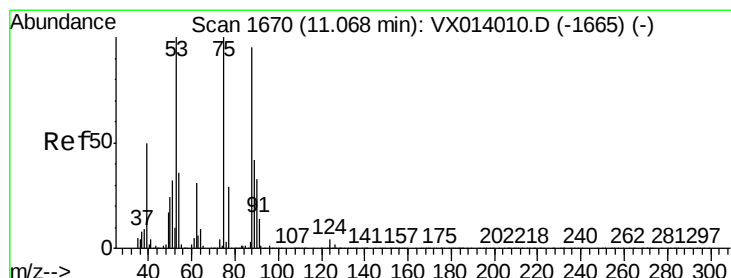
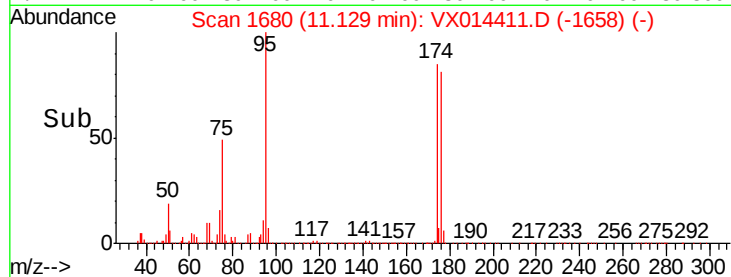
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 60.471 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014411.D

Acq: 03 Jan 2020 19:20

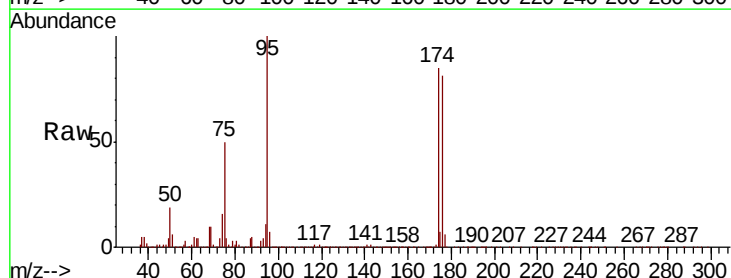
Tgt Ion: 75 Resp: 171108

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.1 34.6 51.8#



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

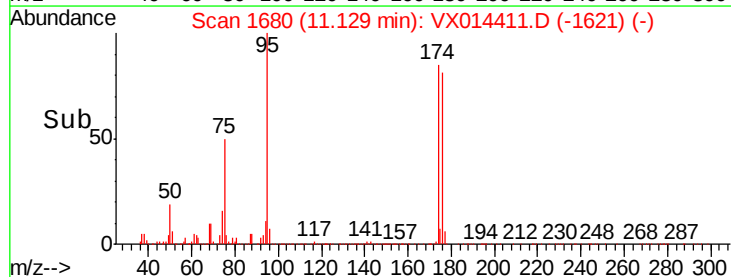
150000

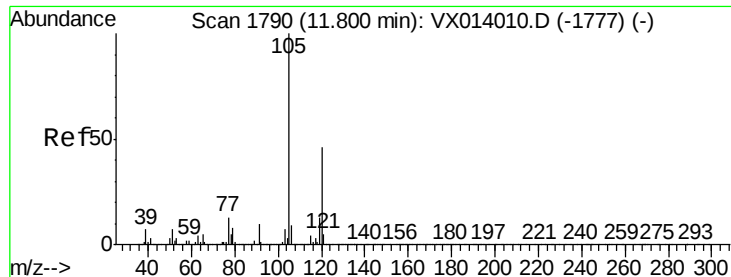
100000

50000

0

Time-->

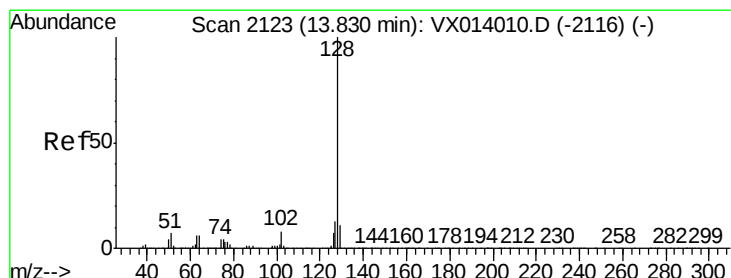
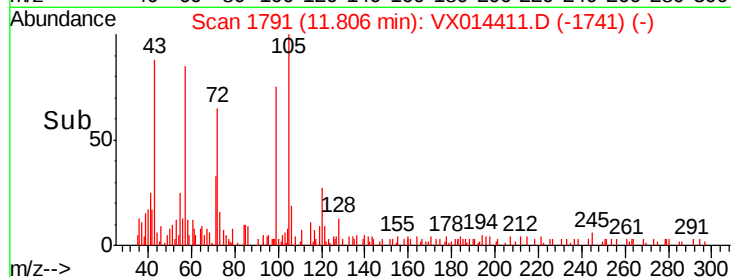
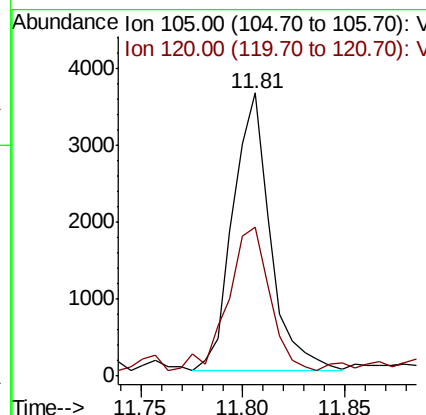
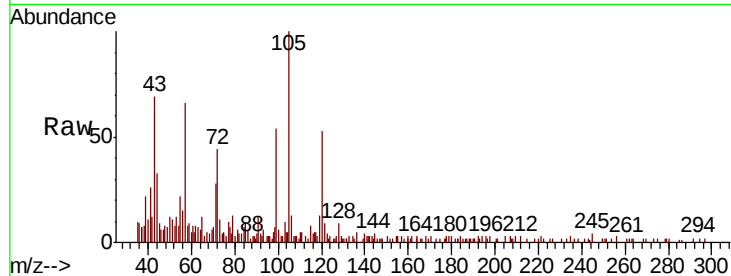




#84
 1,2,4-Trimethylbenzene
 Concen: 0.210 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.01 min
 Lab File: VX014411.D
 Acq: 03 Jan 2020 19:20

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 4588
 Ion Ratio Lower Upper
 105 100
 120 57.9 23.1 69.2



#95
 Naphthalene
 Concen: 2.699 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX014411.D
 Acq: 03 Jan 2020 19:20

Tgt Ion:128 Resp: 64795
 Ion Ratio Lower Upper
 128 100
 127 13.6 10.2 15.4
 129 11.9 8.7 13.1

