

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120519\
 Data File : VX013775.D
 Acq On : 05 Dec 2019 14:39
 Operator : JC/SP
 Sample : K6134-01DL 1000X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 30573DL

Quant Time: Dec 06 02:27:19 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	686668	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1033325	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	913034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	412336	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	367477	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
35) Dibromofluoromethane	5.49	113	303761	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	8.71	98	1220018	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	11.14	95	413778	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	

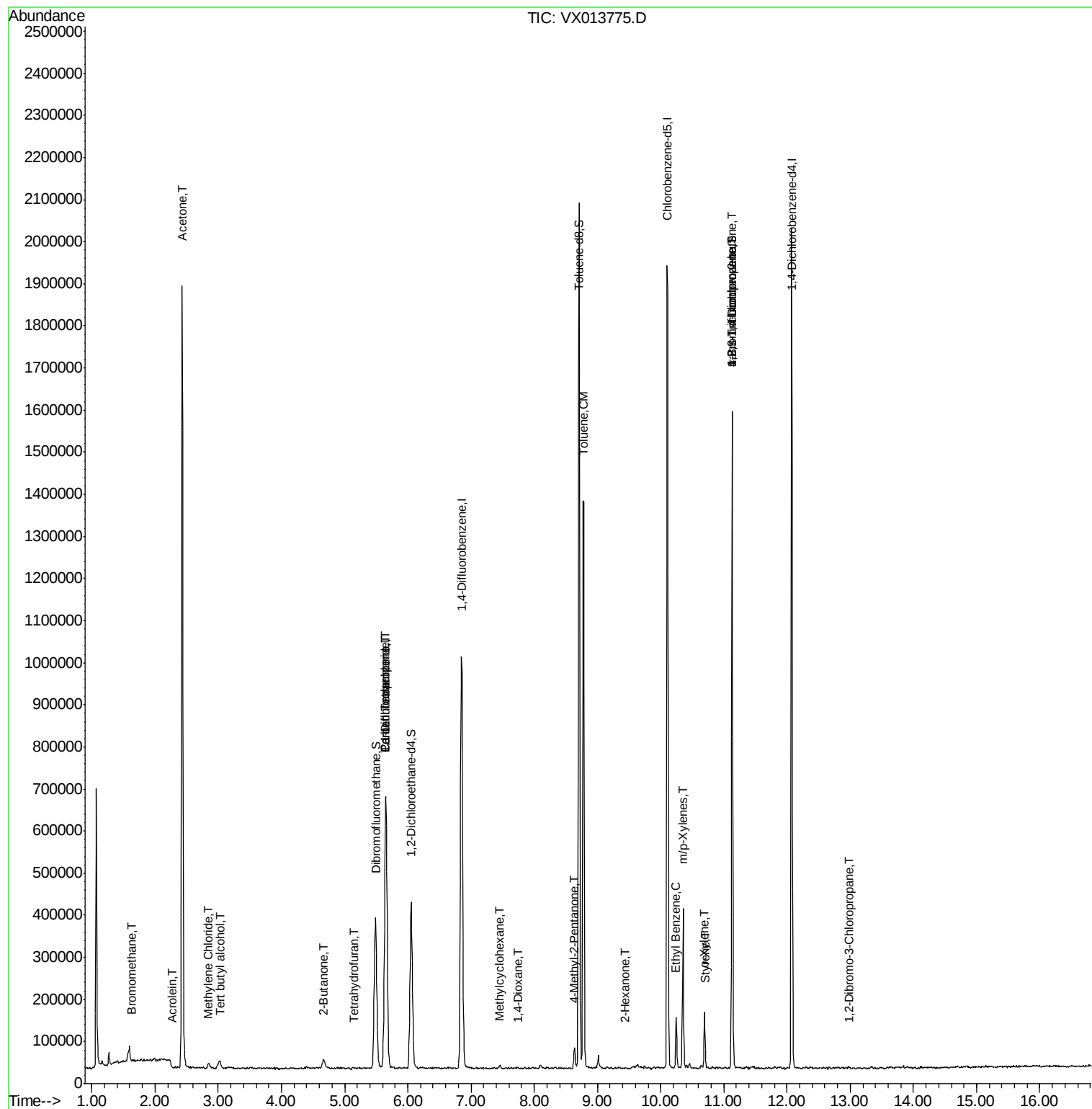
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1410	0.218	ug/l #	80
11) Tert butyl alcohol	3.03	59	21497	10.927	ug/l #	84
13) Acrolein	2.28	56	326	6.246	ug/l	87
16) Acetone	2.43	43	1908087	484.875	ug/l	100
20) Methylene Chloride	2.85	84	6727	0.890	ug/l #	94
25) 2-Butanone	4.67	43	33980	5.810	ug/l	98
29) Tetrahydrofuran	5.15	42	1617	0.448	ug/l #	64
36) 1,1-Dichloropropene	5.65	75	43859	4.676	ug/l #	52
38) Carbon Tetrachloride	5.65	117	58164	6.725	ug/l #	15
39) Methylcyclohexane	7.46	83	3632	0.313	ug/l #	81
49) 1,4-Dioxane	7.75	88	280	1.486	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	29979	2.751	ug/l	100
52) Toluene	8.78	92	531479	29.946	ug/l	100
59) 2-Hexanone	9.44	43	1724	0.203	ug/l	65
67) Ethyl Benzene	10.25	91	71856	2.206	ug/l	98
68) m/p-Xylenes	10.36	106	92076	7.383	ug/l	99
69) o-Xylene	10.70	106	31164	2.562	ug/l	99
70) Styrene	10.71	104	5362	0.262	ug/l #	4
76) 1,2,3-Trichloropropane	11.13	75	203621	21.956	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	203621	60.067	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	961	0.440	ug/l #	1

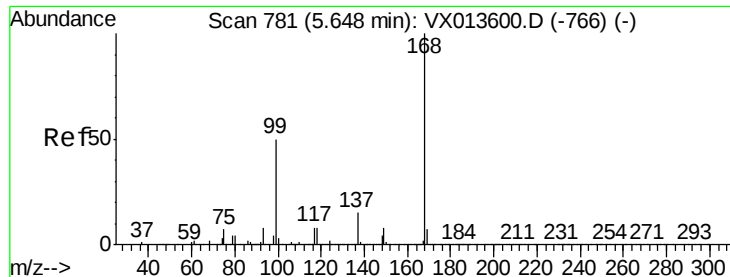
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampled :

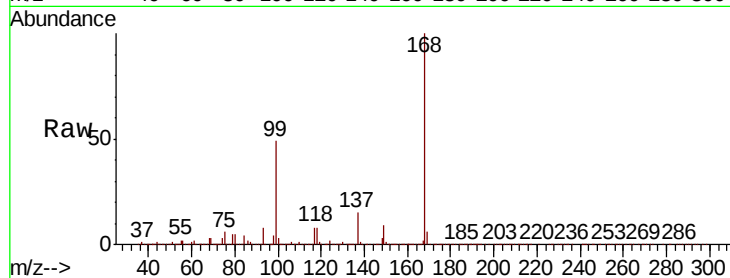
30573DL

Tot Ion:168 Resp: 686668

Ion Ratio Lower Upper

168 100

99 48.8 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

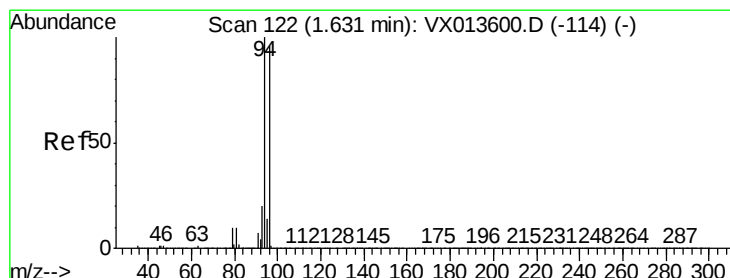
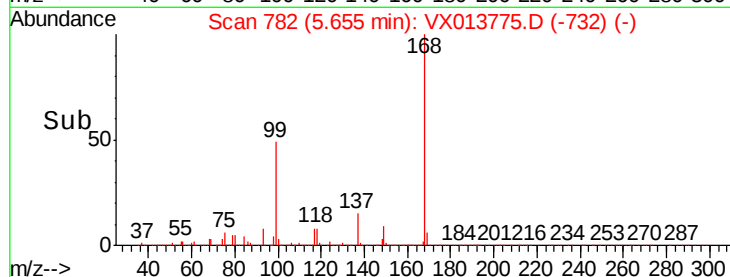
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.218 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013775.D

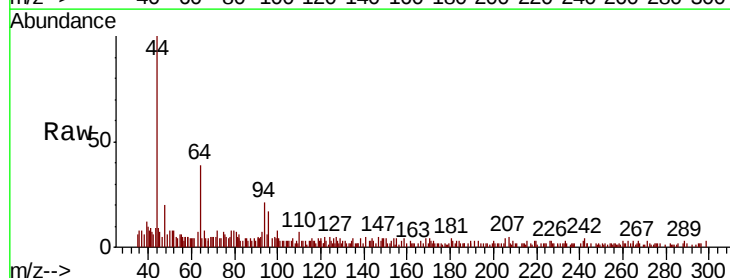
Acq: 05 Dec 2019 14:39

Tgt Ion: 94 Resp: 1410

Ion Ratio Lower Upper

94 100

96 76.2 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

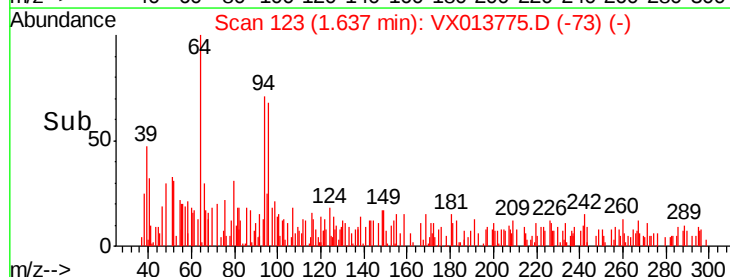
600

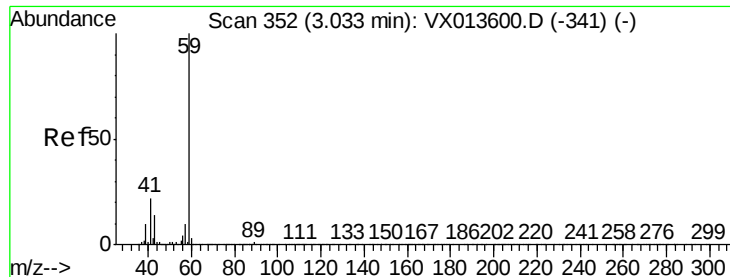
400

200

0

Time-->

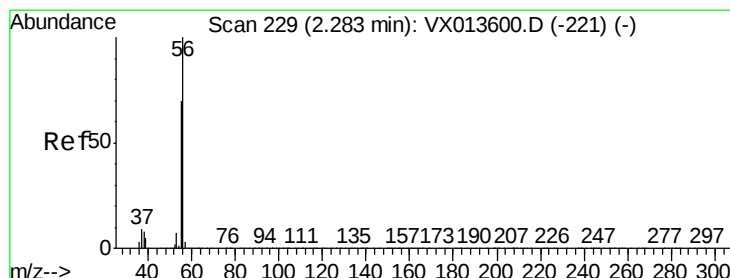
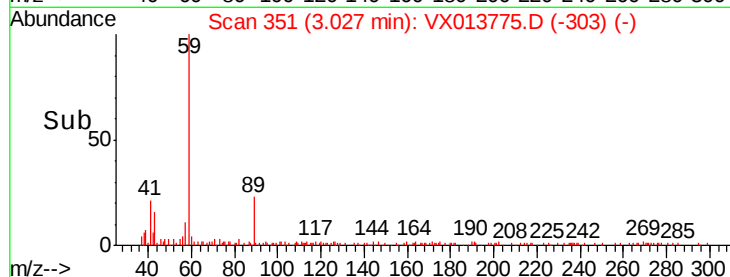
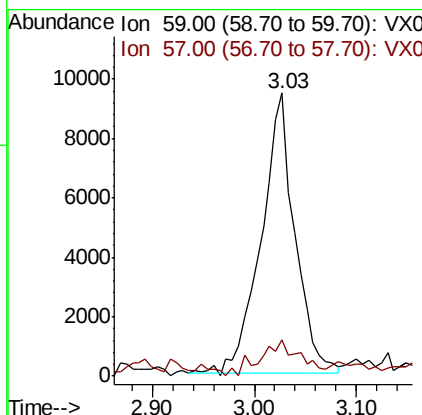
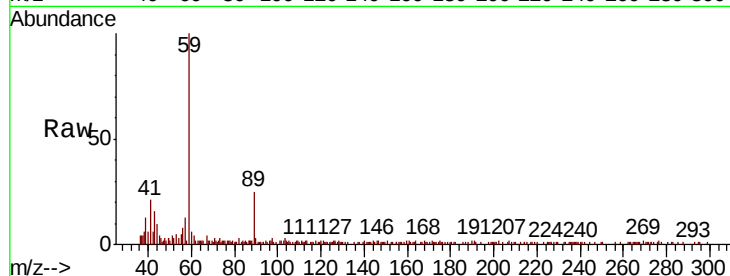




#11
Tert butyl alcohol
Concen: 10.927 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013775.D
Acq: 05 Dec 2019 14:39

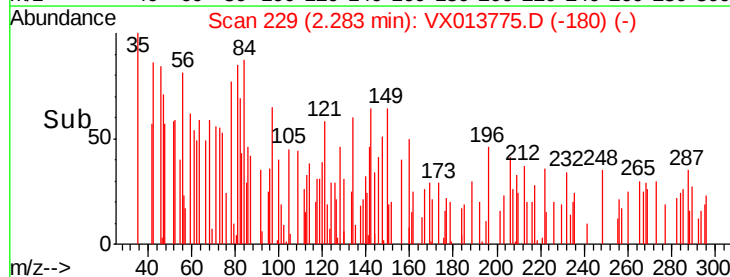
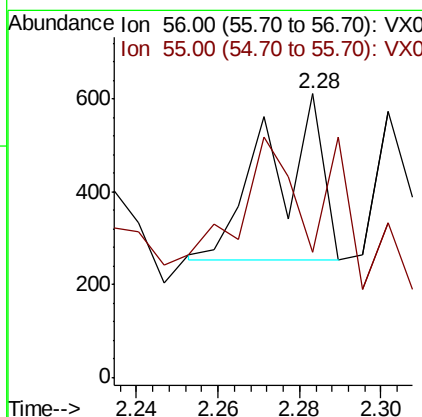
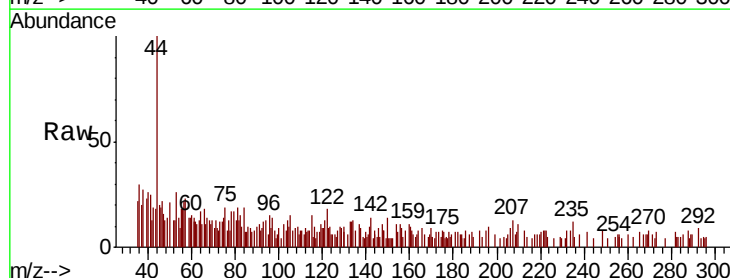
Instrument :
MSVOA_X
ClientSampled :
30573DL

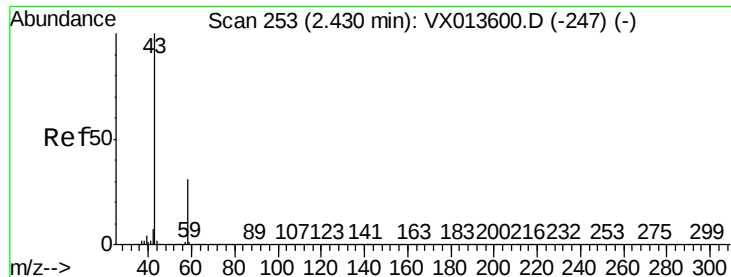
Tot Ion: 59 Resp: 21497
Ion Ratio Lower Upper
59 100
57 15.6 7.8 11.6#



#13
Acrolein
Concen: 6.246 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX013775.D
Acq: 05 Dec 2019 14:39

Tgt Ion: 56 Resp: 326
Ion Ratio Lower Upper
56 100
55 59.5 56.2 84.4





#16

Acetone

Concen: 484.875 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

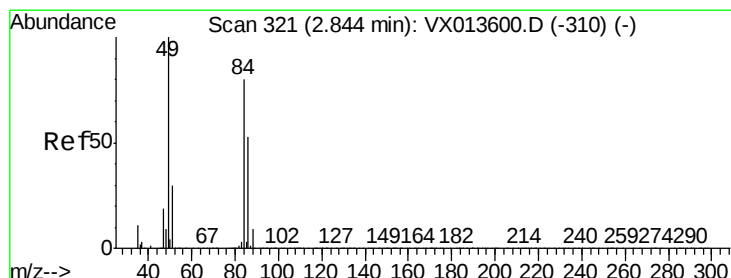
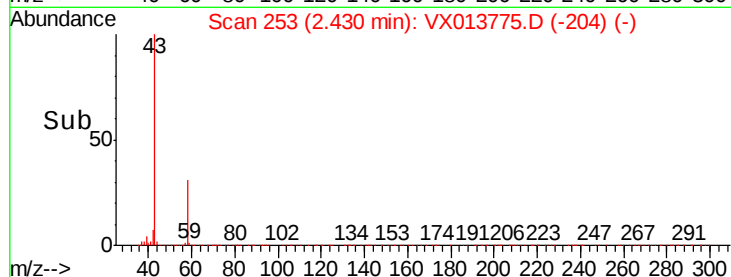
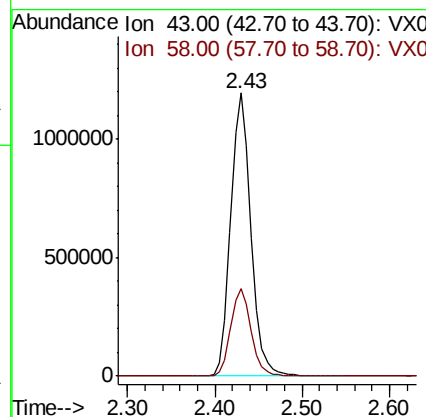
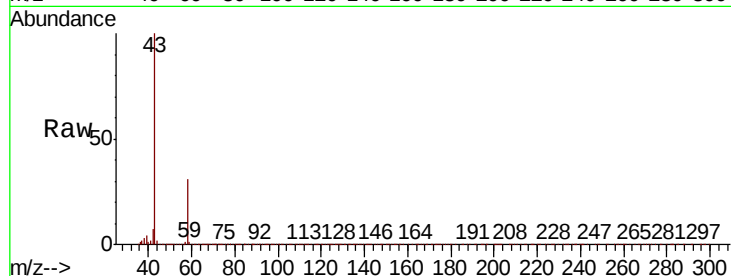
30573DL

Tot Ion: 43 Resp: 1908087

Ion Ratio Lower Upper

43 100

58 30.8 24.6 36.8



#20

Methylene Chloride

Concen: 0.890 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Tgt Ion: 84 Resp: 6727

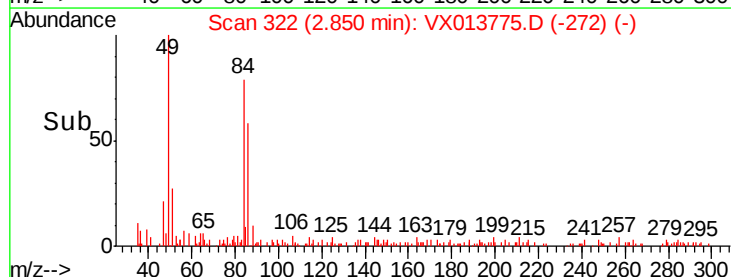
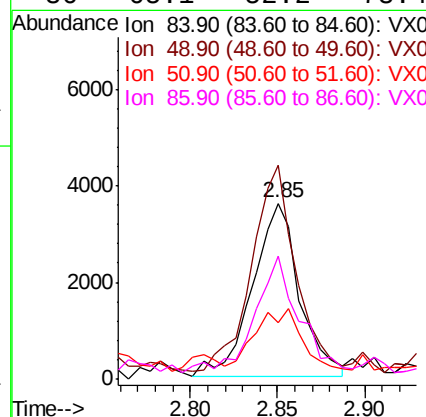
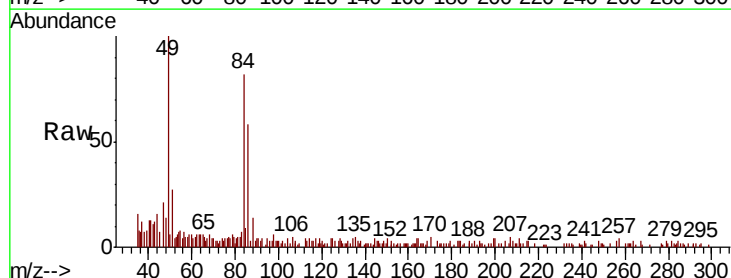
Ion Ratio Lower Upper

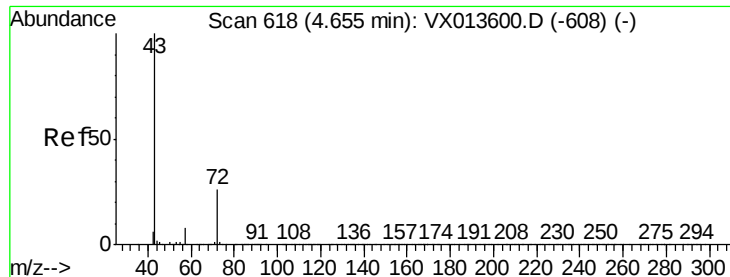
84 100

49 119.7 99.7 149.5

51 24.4 29.9 44.9#

86 65.1 52.2 78.4





#25

2-Butanone

Concen: 5.810 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

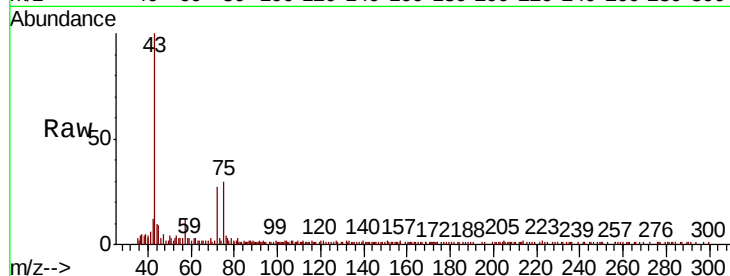
30573DL

Tot Ion: 43 Resp: 33980

Ion Ratio Lower Upper

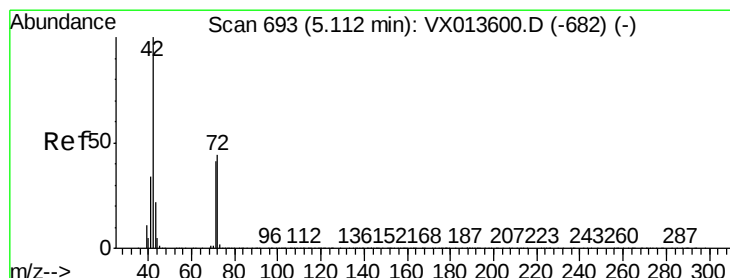
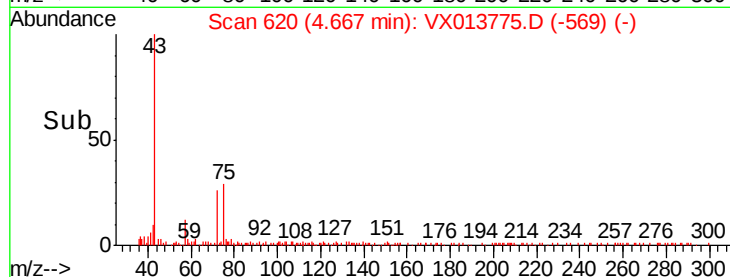
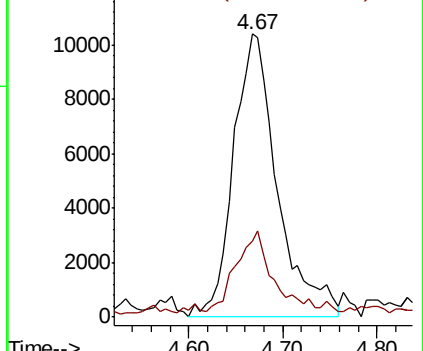
43 100

72 24.8 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.448 ug/l

RT: 5.15 min Scan# 699

Delta R.T. 0.04 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

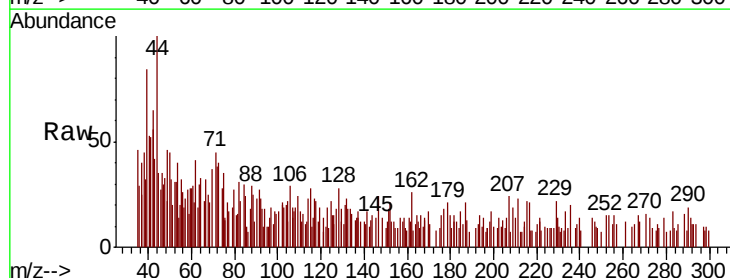
Tgt Ion: 42 Resp: 1617

Ion Ratio Lower Upper

42 100

72 40.2 36.3 54.5

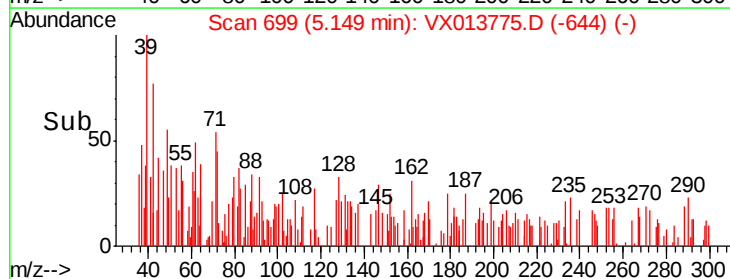
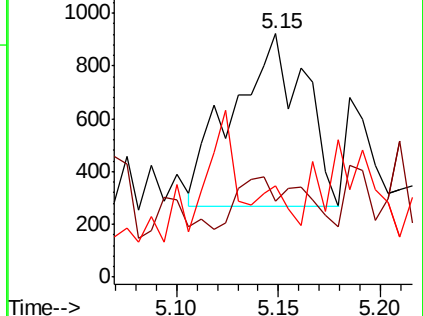
71 0.0 33.2 49.8#

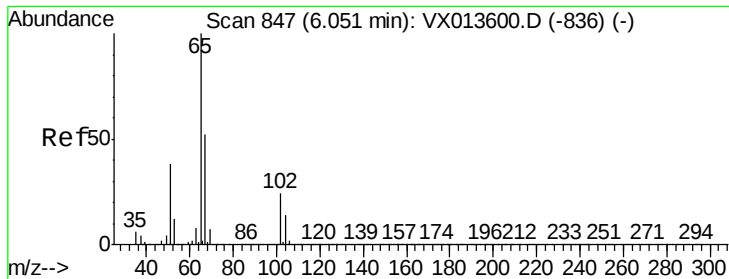


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.104 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

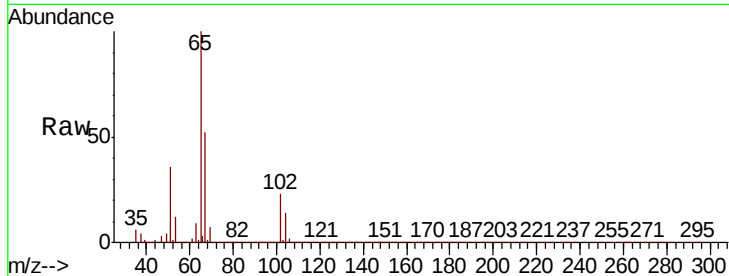
30573DL

Tot Ion: 65 Resp: 367477

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

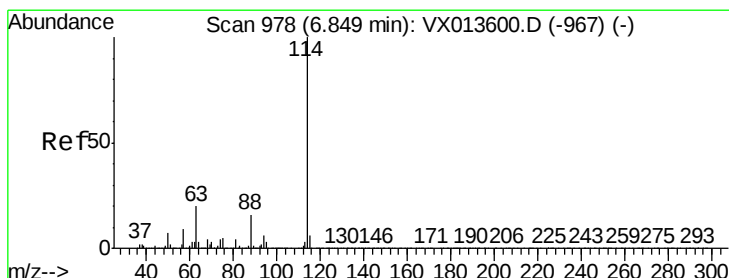
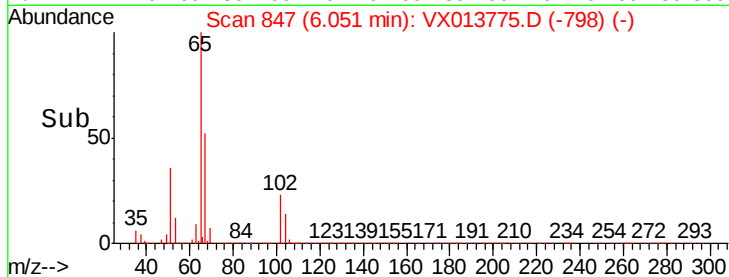
100000

50000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

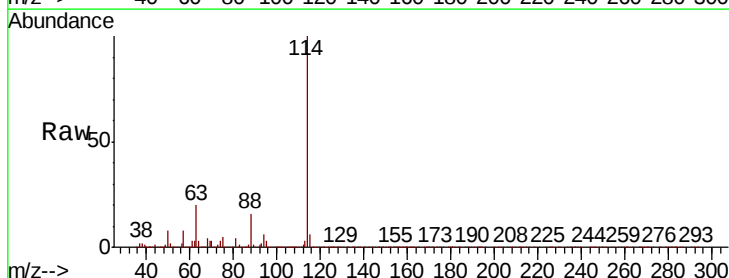
Tgt Ion: 114 Resp: 1033325

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 15.5 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

600000

500000

400000

300000

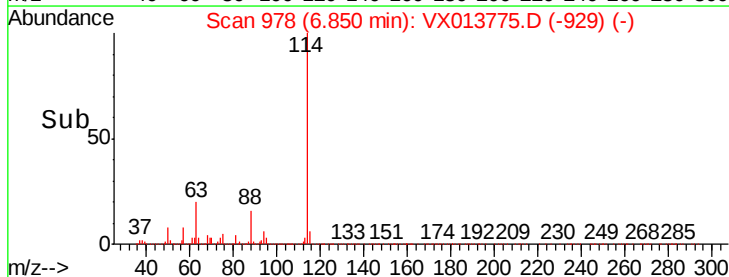
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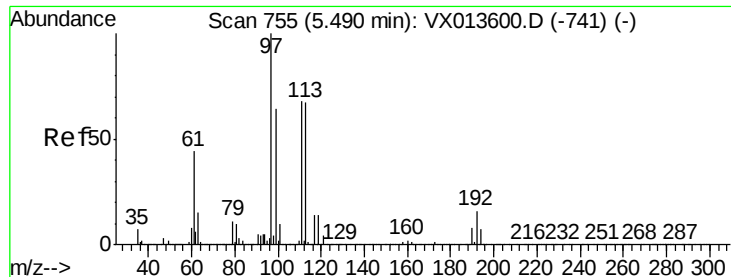
100000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 47.551 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :
MSVOA_X
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30573DL

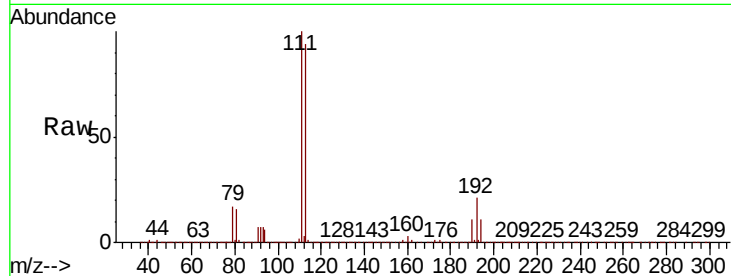
Tot Ion:113 Resp: 303761

Ion Ratio Lower Upper

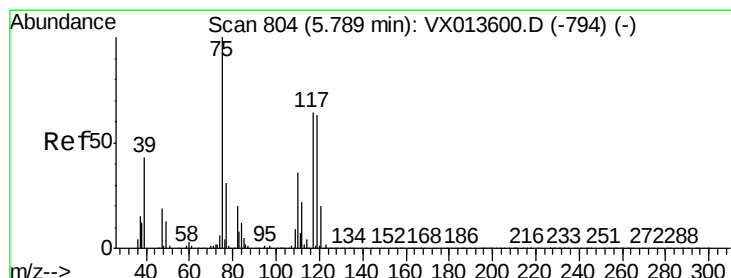
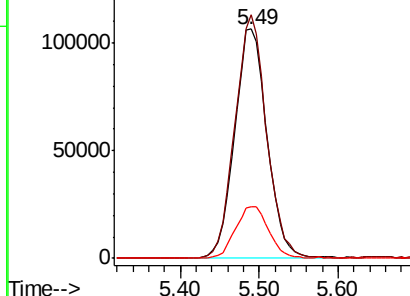
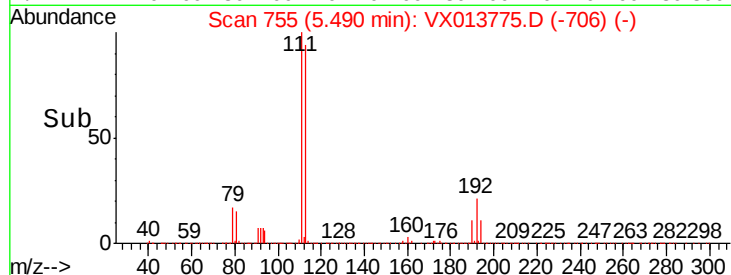
113 100

111 103.6 83.6 125.4

192 23.1 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: 4.676 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

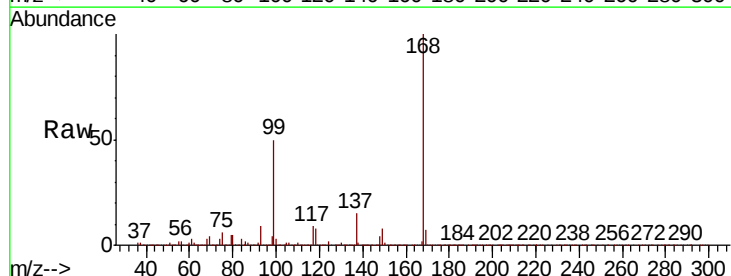
Tgt Ion: 75 Resp: 43859

Ion Ratio Lower Upper

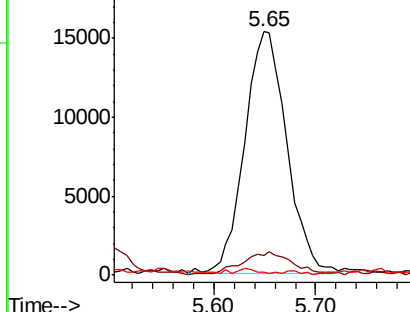
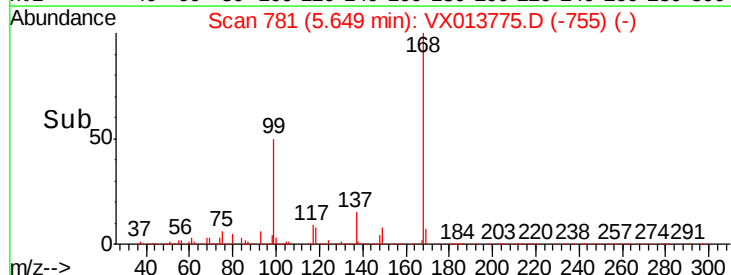
75 100

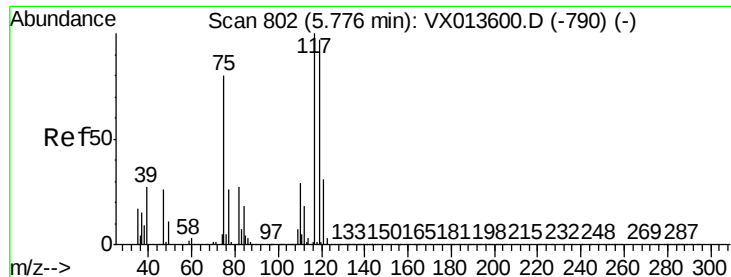
110 12.1 18.1 54.1#

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: 6.725 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampled :

30573DL

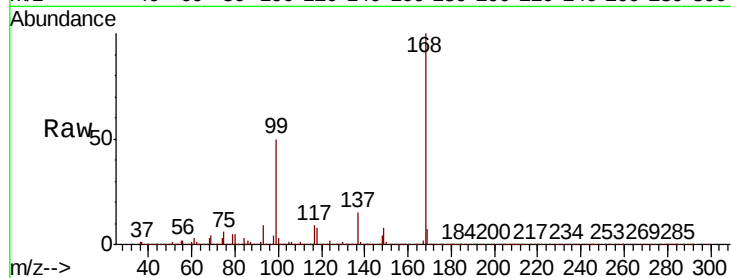
Tot Ion:117 Resp: 58164

Ion Ratio Lower Upper

117 100

119 4.1 77.5 116.3#

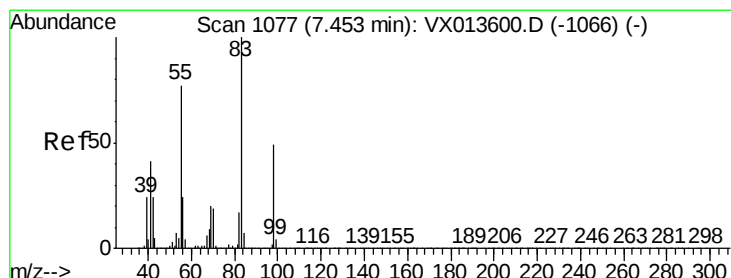
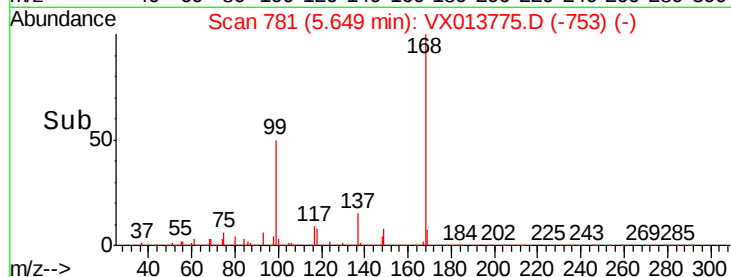
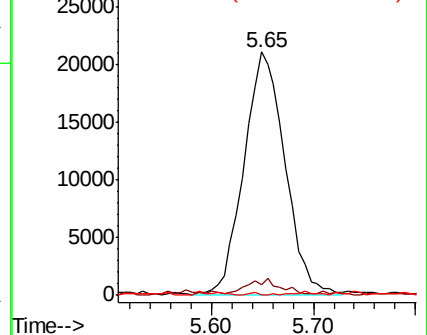
121 0.3 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.313 ug/l

RT: 7.46 min Scan# 1078

Delta R.T. 0.01 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

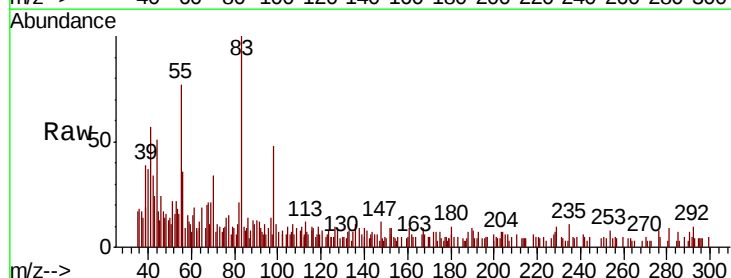
Tgt Ion: 83 Resp: 3632

Ion Ratio Lower Upper

83 100

55 61.1 61.9 92.9#

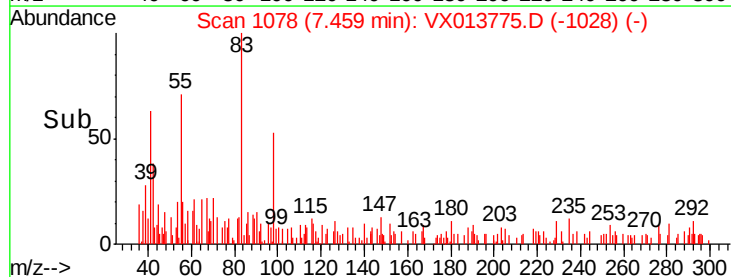
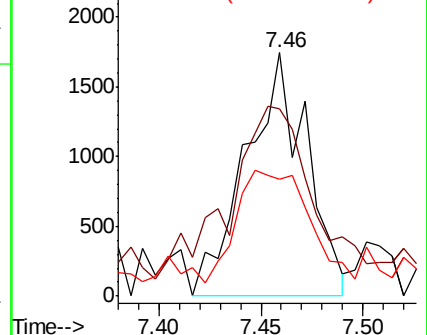
98 36.5 39.4 59.0#

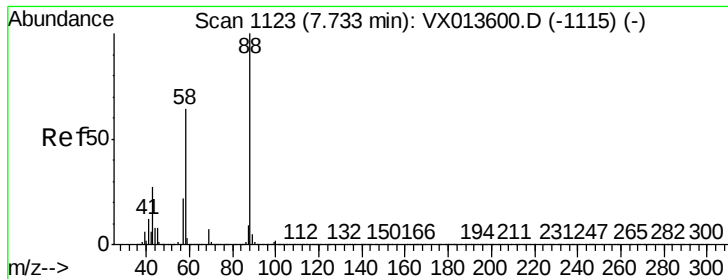


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#49

1,4-Dioxane

Concen: 1.486 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

30573DL

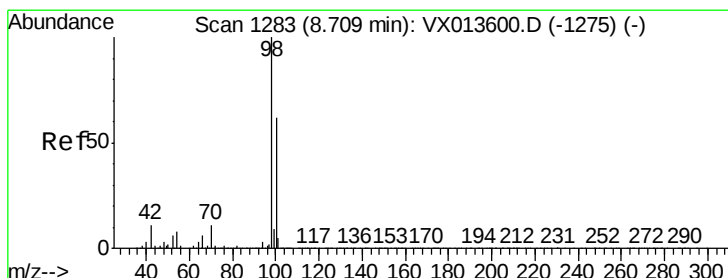
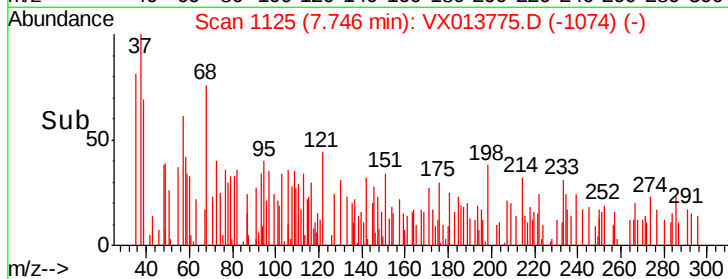
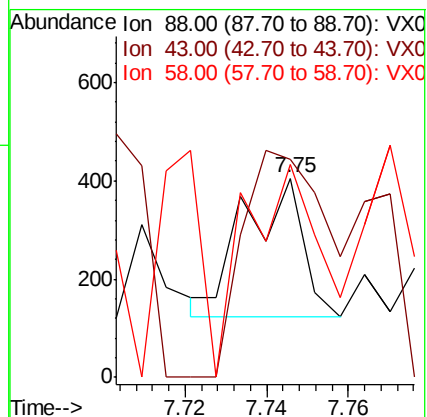
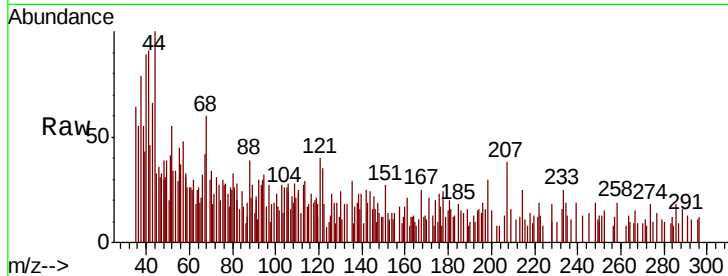
Tot Ion: 88 Resp: 280

Ion Ratio Lower Upper

88 100

43 332.9 25.8 38.6#

58 201.1 54.6 82.0#



#50

Toluene-d8

Concen: 49.018 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013775.D

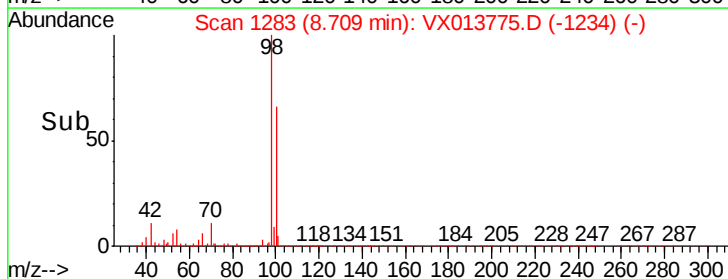
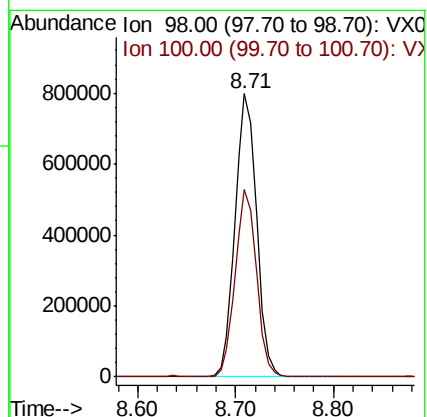
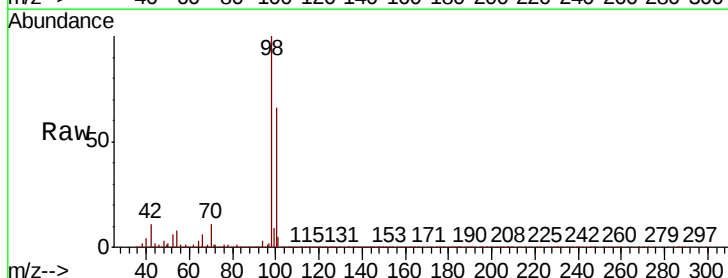
Acq: 05 Dec 2019 14:39

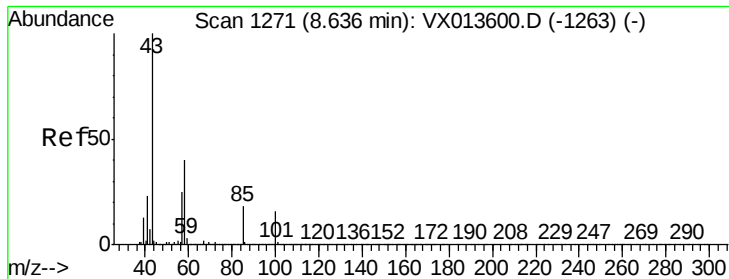
Tgt Ion: 98 Resp: 1220018

Ion Ratio Lower Upper

98 100

100 65.3 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 2.751 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

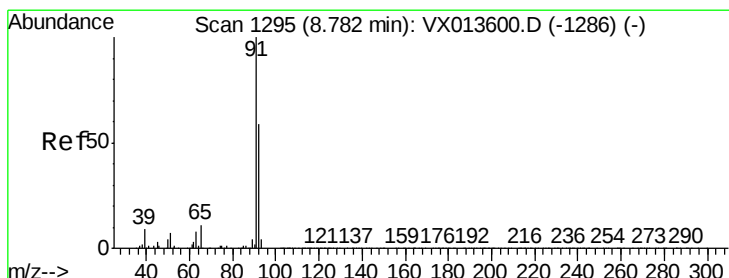
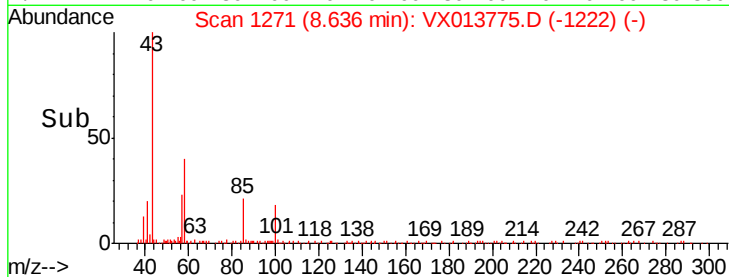
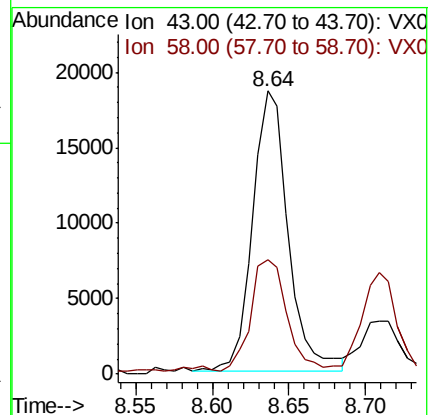
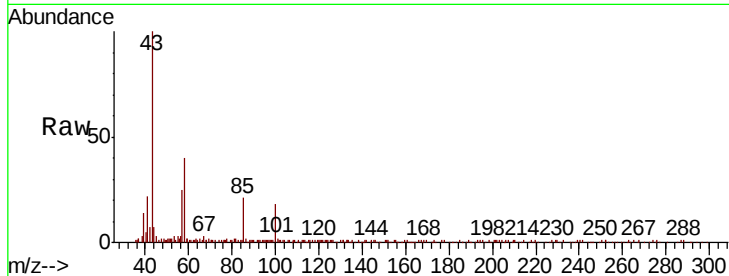
30573DL

Tot Ion: 43 Resp: 29979

Ion Ratio Lower Upper

43 100

58 40.3 32.1 48.1



#52

Toluene

Concen: 29.946 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX013775.D

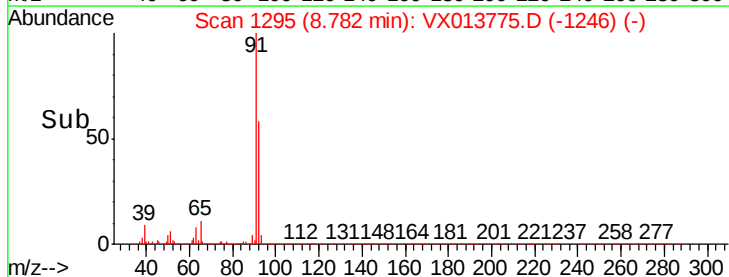
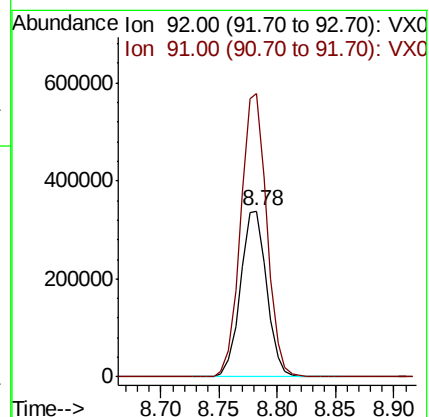
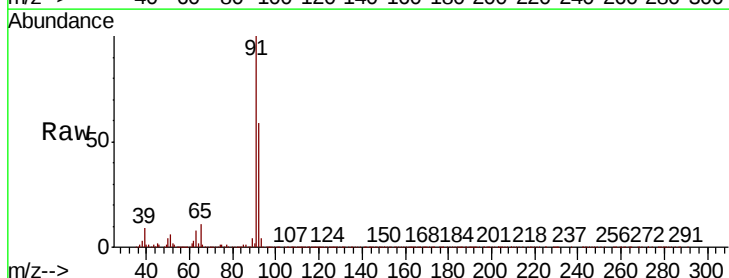
Acq: 05 Dec 2019 14:39

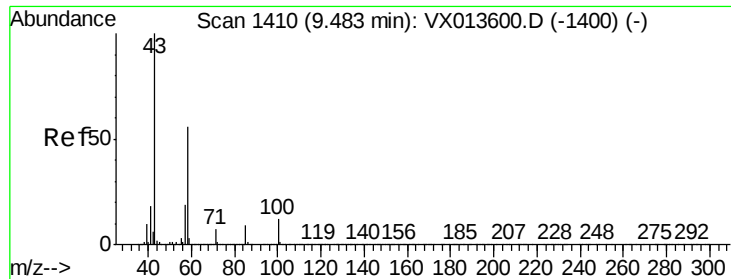
Tgt Ion: 92 Resp: 531479

Ion Ratio Lower Upper

92 100

91 170.3 136.2 204.2

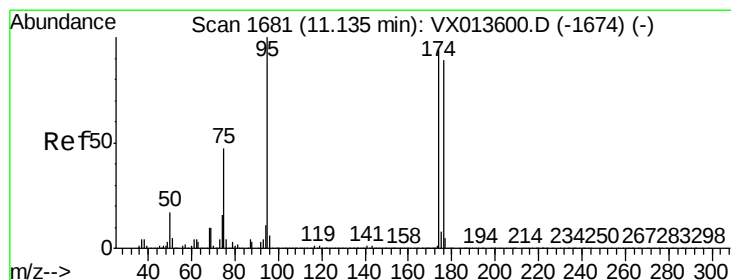
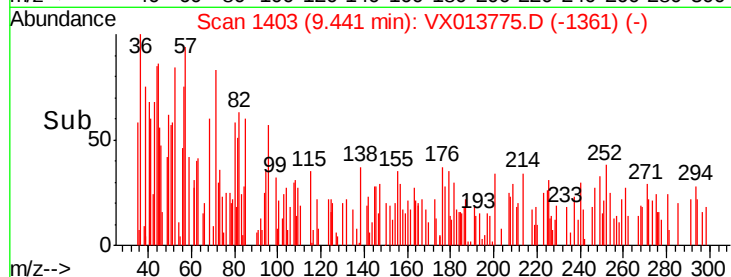
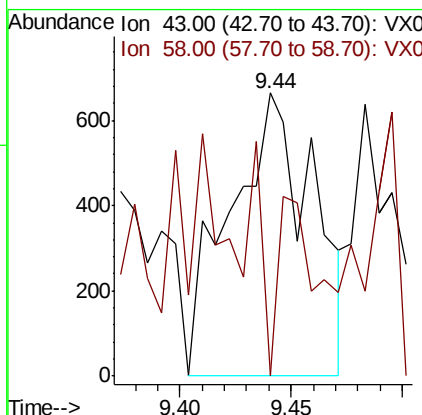
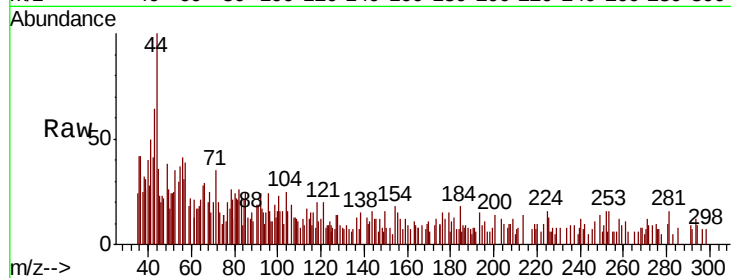




#59
2-Hexanone
Concen: 0.203 ug/l
RT: 9.44 min Scan# 1403
Delta R.T. -0.04 min
Lab File: VX013775.D
Acq: 05 Dec 2019 14:39

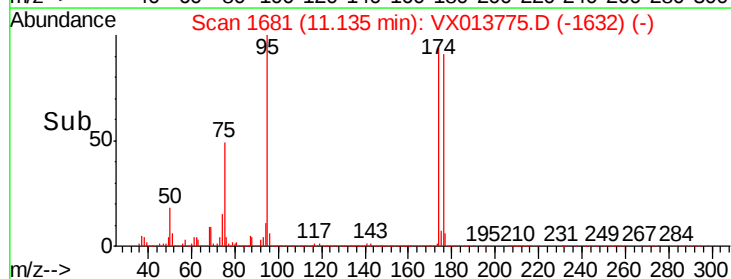
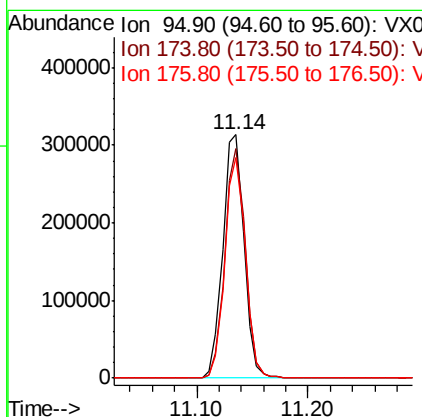
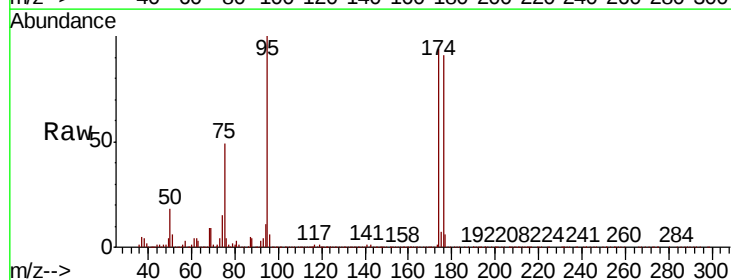
Instrument :
MSVOA_X
ClientSampled :
30573DL

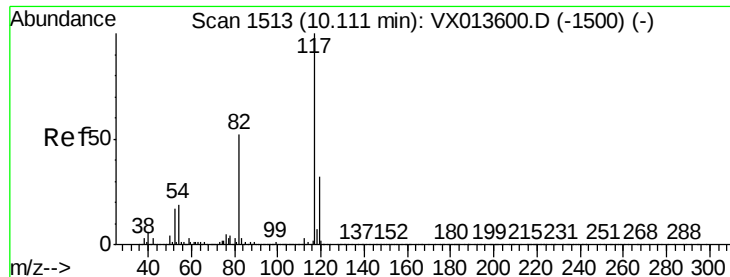
Tot Ion: 43 Resp: 1724
Ion Ratio Lower Upper
43 100
58 30.7 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 46.103 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013775.D
Acq: 05 Dec 2019 14:39

Tgt Ion: 95 Resp: 413778
Ion Ratio Lower Upper
95 100
174 91.0 0.0 180.0
176 88.1 0.0 173.6

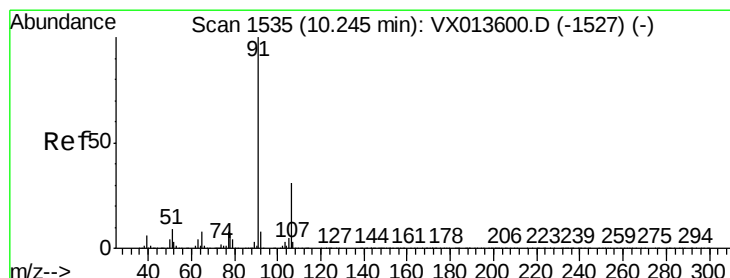
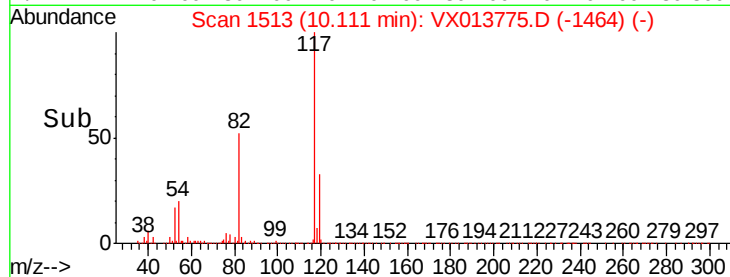
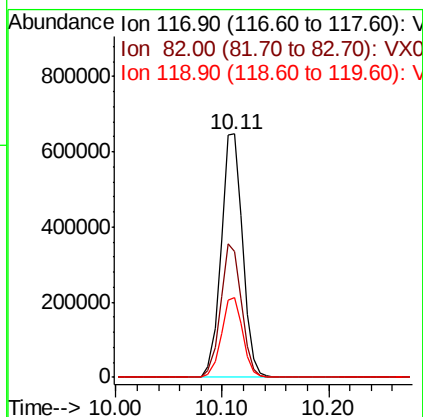
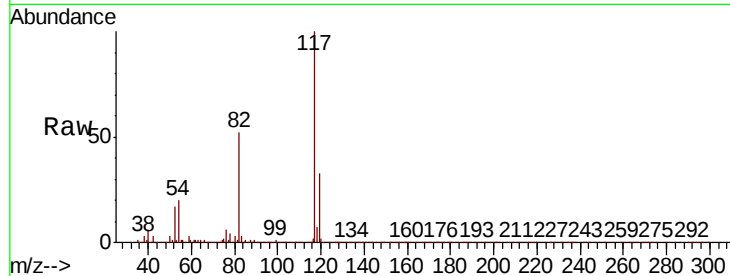




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013775.D
Acq: 05 Dec 2019 14:39

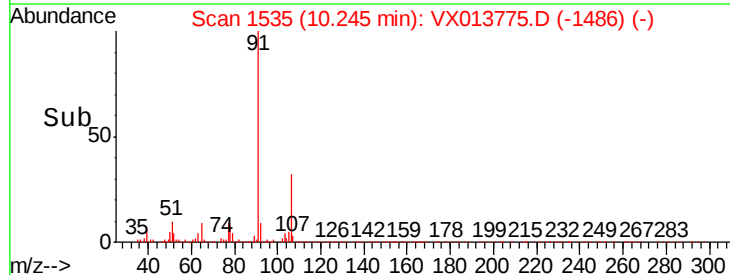
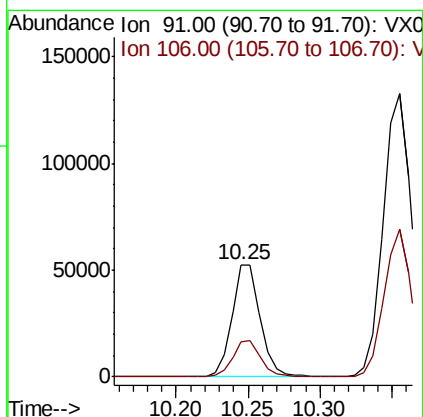
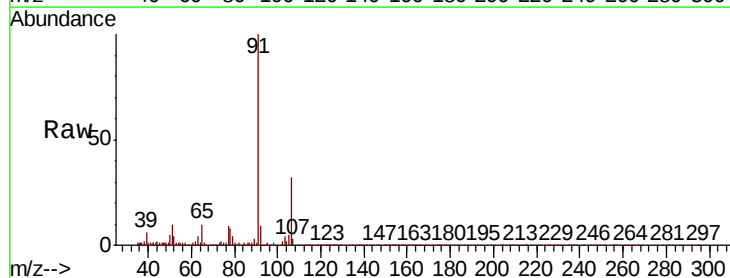
Instrument :
MSVOA_X
ClientSampleId :
30573DL

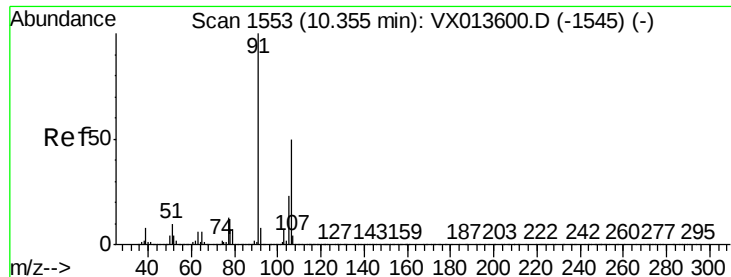
Tot Ion:117 Resp: 913034
Ion Ratio Lower Upper
117 100
82 51.7 41.8 62.8
119 32.7 25.8 38.8



#67
Ethyl Benzene
Concen: 2.206 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. 0.00 min
Lab File: VX013775.D
Acq: 05 Dec 2019 14:39

Tgt Ion: 91 Resp: 71856
Ion Ratio Lower Upper
91 100
106 31.4 24.5 36.7





#68

m/p-Xylenes

Concen: 7.383 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

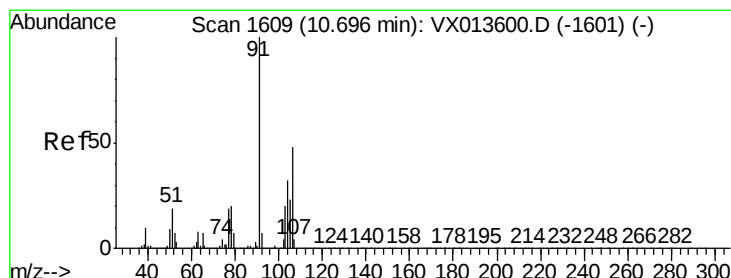
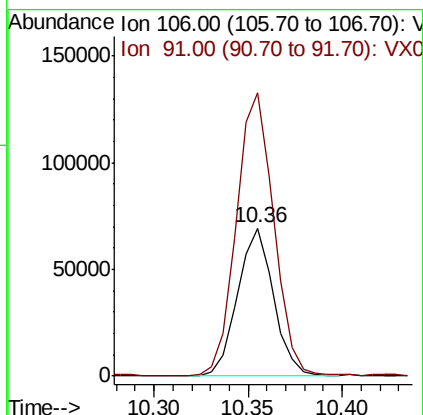
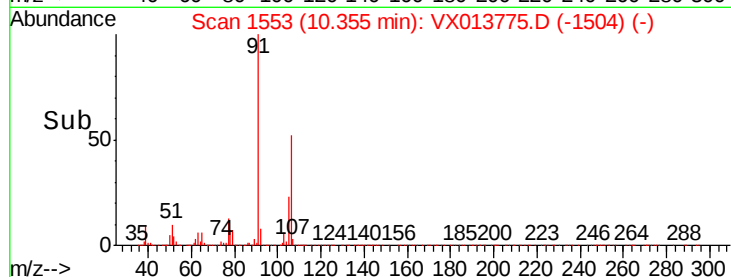
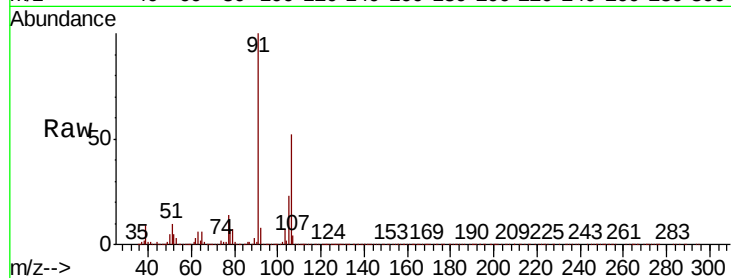
30573DL

Tot Ion:106 Resp: 92076

Ion Ratio Lower Upper

106 100

91 197.4 159.0 238.4



#69

o-Xylene

Concen: 2.562 ug/l

RT: 10.70 min Scan# 1609

Delta R.T. 0.00 min

Lab File: VX013775.D

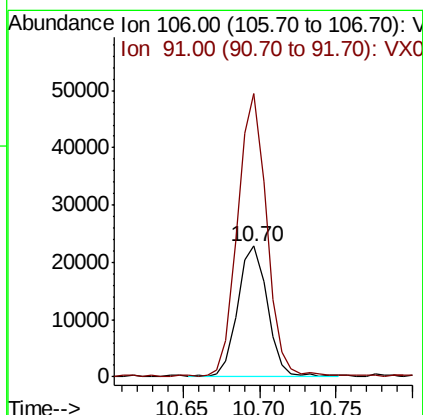
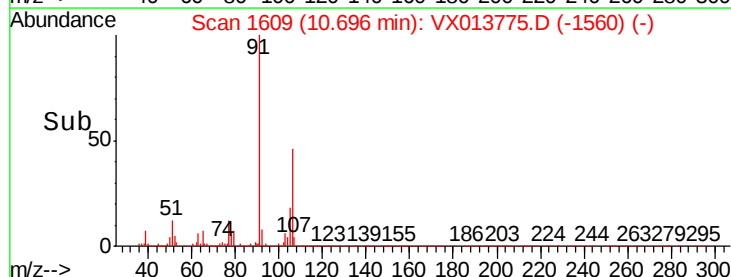
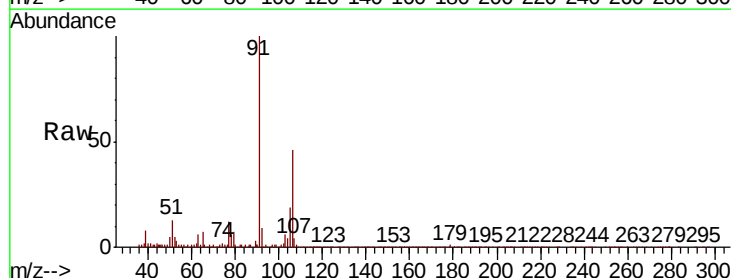
Acq: 05 Dec 2019 14:39

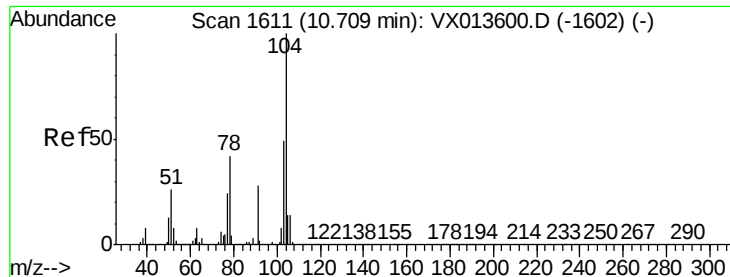
Tgt Ion:106 Resp: 31164

Ion Ratio Lower Upper

106 100

91 209.2 104.1 312.2





#70

Stvrene

Concen: 0.262 ug/l

RT: 10.71 min Scan# 1611

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

30573DL

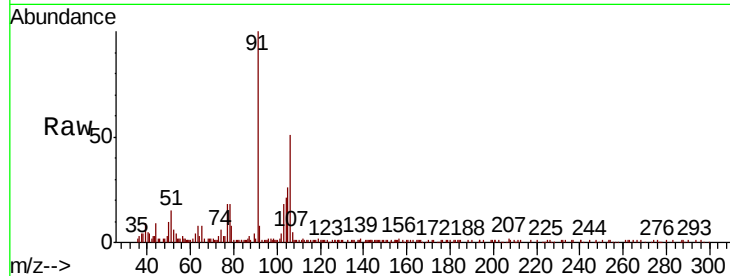
Tot Ion:104 Resp: 5362

Ion Ratio Lower Upper

104 100

78 119.9 38.5 57.7#

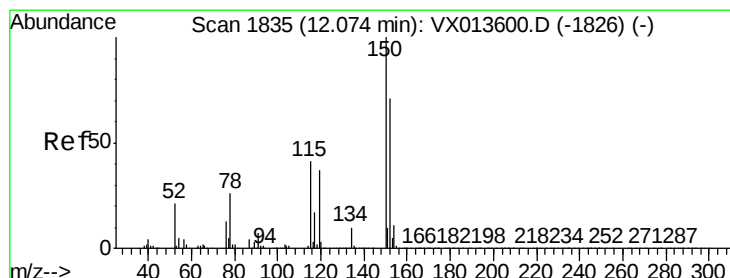
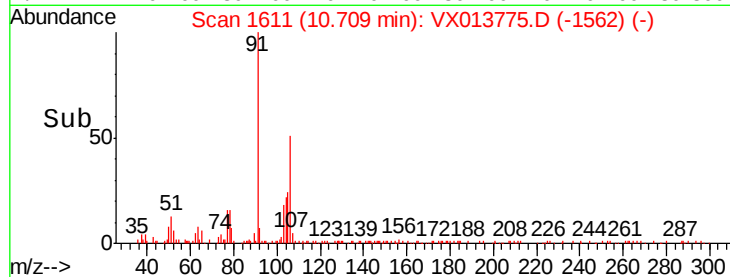
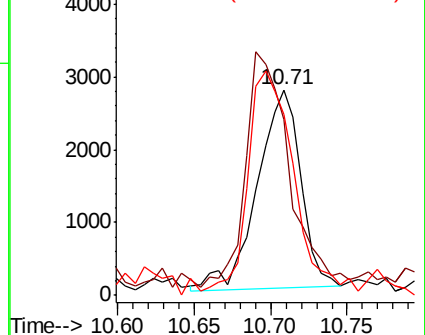
103 117.1 43.7 65.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

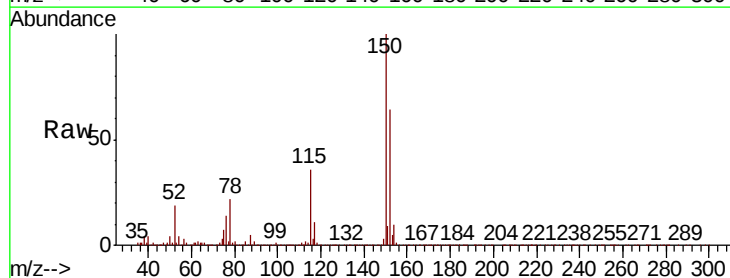
Tgt Ion:152 Resp: 412336

Ion Ratio Lower Upper

152 100

115 55.9 38.4 115.1

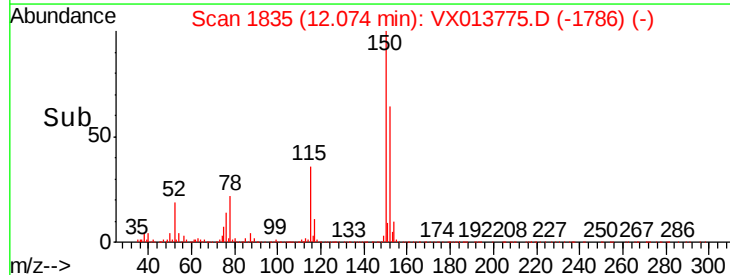
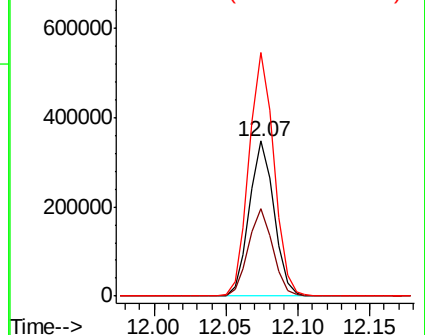
150 158.0 0.0 346.8

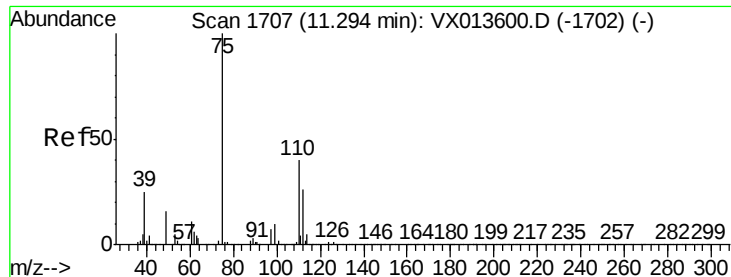


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.956 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

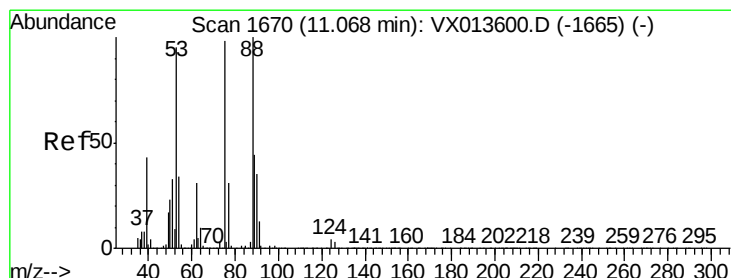
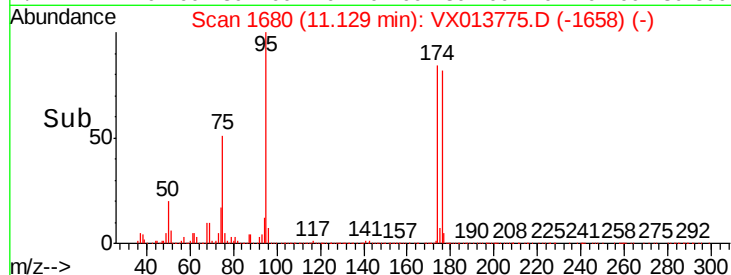
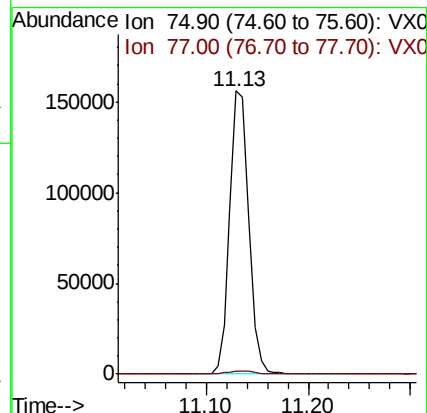
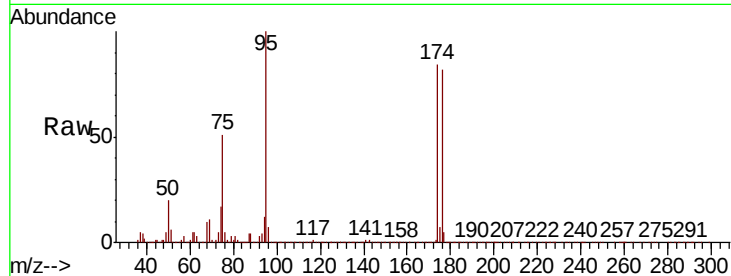
30573DL

Tot Ion: 75 Resp: 203621

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.067 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

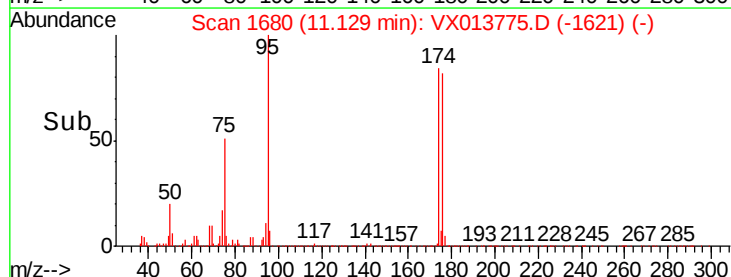
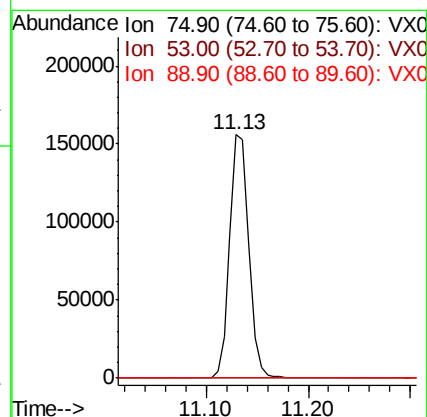
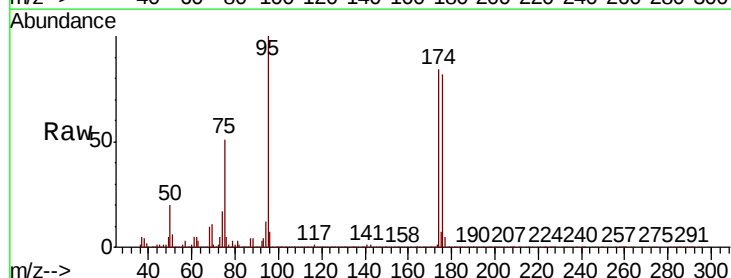
Tgt Ion: 75 Resp: 203621

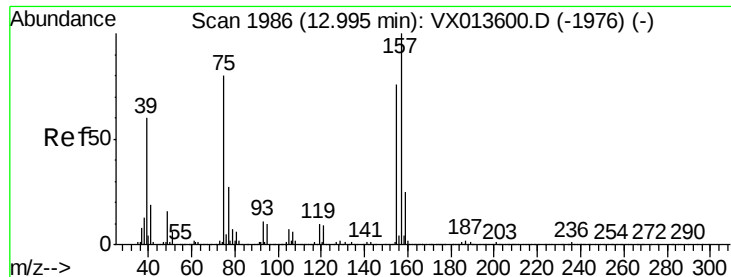
Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.2#

89 0.1 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.440 ug/l

RT: 12.98 min Scan# 1984

Delta R.T. -0.01 min

Lab File: VX013775.D

Acq: 05 Dec 2019 14:39

Instrument :

MSVOA_X

ClientSampleId :

30573DL

Tot Ion: 75 Resp: 961

Ion Ratio Lower Upper

75 100

155 8.9 47.6 142.8#

157 0.0 62.1 186.2#

