

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014364.D
 Acq On : 30 Dec 2019 19:16
 Operator : JC/SP
 Sample : PB125776TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125776TB

Quant Time: Dec 31 01:22:17 2019
 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	524552	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	814481	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	742471	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	327679	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	293701	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
35) Dibromofluoromethane	5.49	113	244237	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.71	98	988252	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	11.13	95	332358	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	

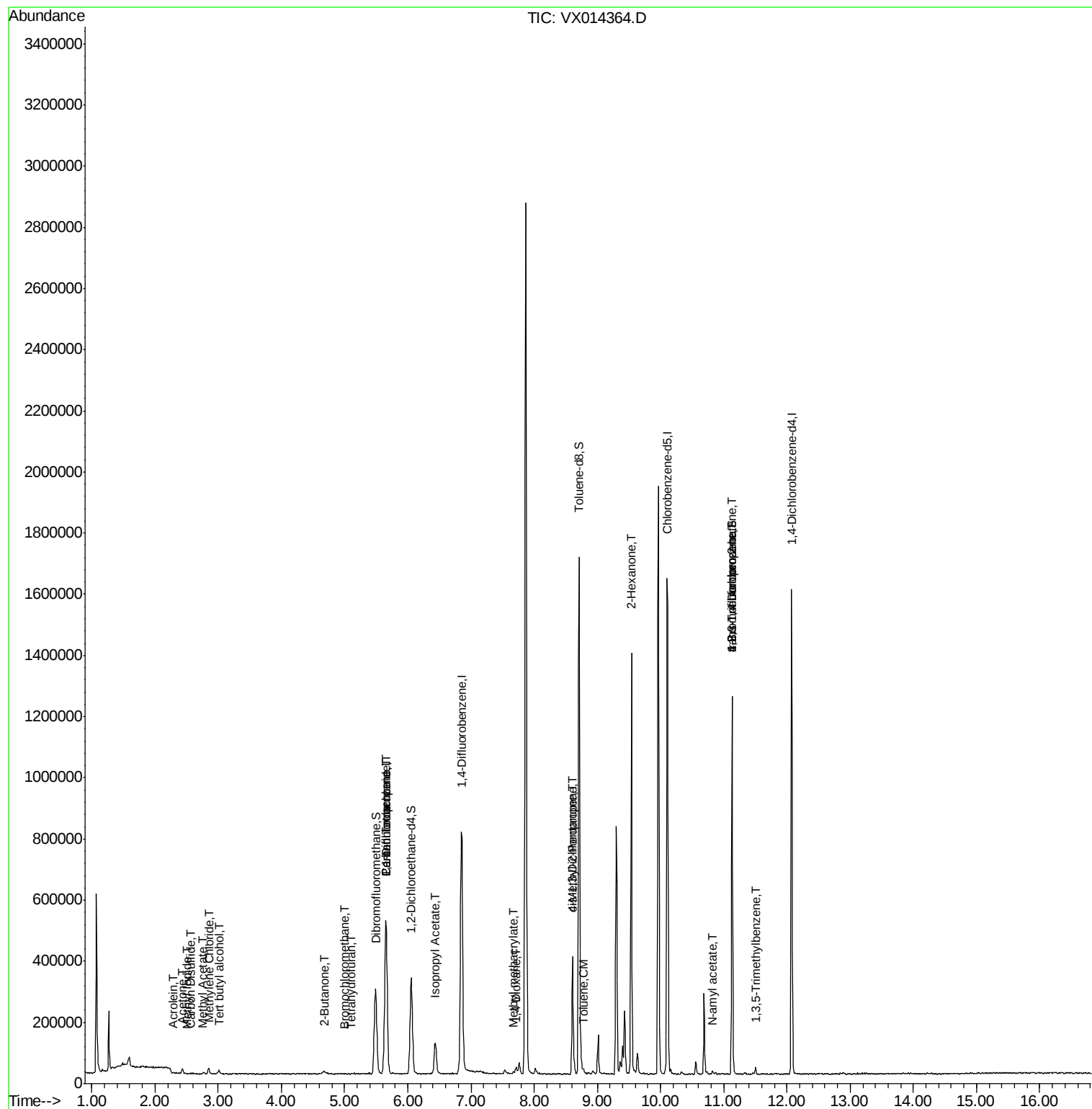
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	507	2.694	ug/l #	1
11) Tert butyl alcohol	3.01	59	8257	6.428	ug/l #	77
13) Acrolein	2.28	56	608	0.827	ug/l #	14
16) Acetone	2.43	43	19005	4.924	ug/l	94
17) Carbon Disulfide	2.57	76	1028	0.822	ug/l #	62
18) Methyl Acetate	2.76	43	6439	0.842	ug/l	91
20) Methylene Chloride	2.85	84	9607	1.581	ug/l	89
25) 2-Butanone	4.69	43	8174	1.718	ug/l	93
28) Bromochloromethane	4.99	49	508	0.585	ug/l #	75
29) Tetrahydrofuran	5.11	42	1026	0.385	ug/l #	47
36) 1,1-Dichloropropene	5.65	75	37381	5.002	ug/l #	50
38) Carbon Tetrachloride	5.65	117	46751	6.867	ug/l #	16
43) Isopropyl Acetate	6.43	43	146912	10.757	ug/l	98
48) Methyl methacrylate	7.67	41	7600	1.136	ug/l #	15
49) 1,4-Dioxane	7.70	88	50	0.367	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	137008	15.973	ug/l #	46
52) Toluene	8.78	92	3999	0.275	ug/l	97
54) cis-1,3-Dichloropropene	8.61	75	63550	7.089	ug/l #	58
59) 2-Hexanone	9.54	43	156801	22.709	ug/l #	50
74) N-amyl acetate	10.82	43	6049	0.559	ug/l #	49
76) 1,2,3-Trichloropropane	11.13	75	158960	22.345	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.50	105	10112	0.521	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	158960	63.070	ug/l #	11

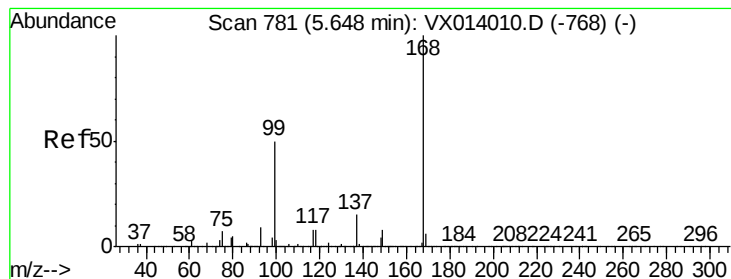
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX014364.D
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ClientSampleId :
PB125776TB

Quant Time: Dec 31 01:22:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 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: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

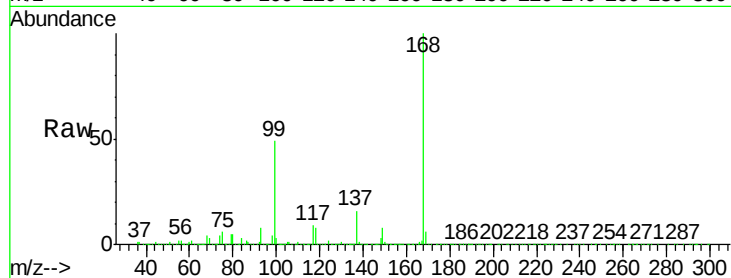
PB125776TB

Tot Ion:168 Resp: 524552

Ion Ratio Lower Upper

168 100

99 49.0 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

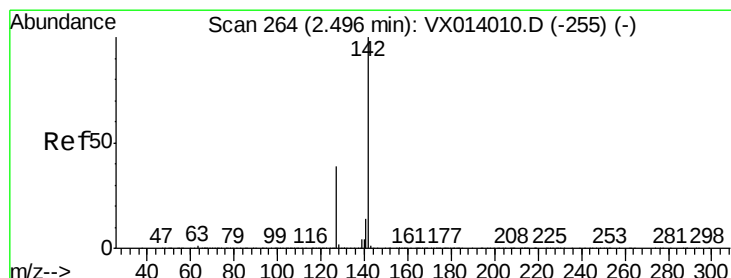
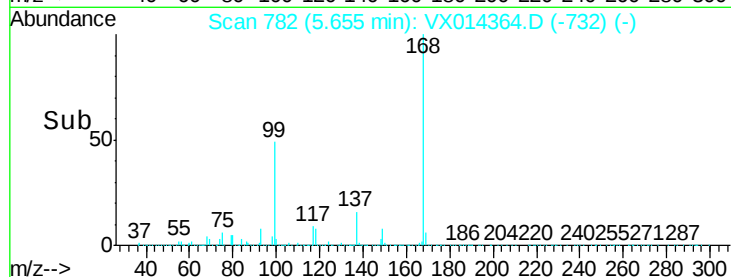
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 2.694 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

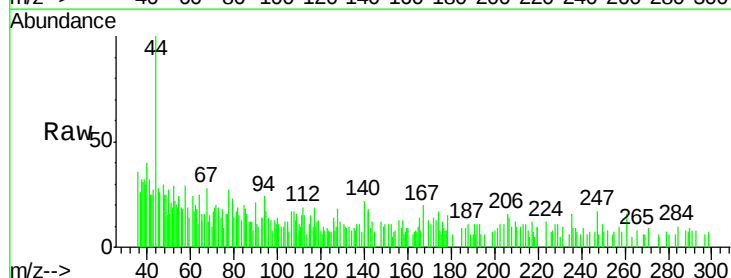
Tgt Ion:142 Resp: 507

Ion Ratio Lower Upper

142 100

127 114.6 31.6 47.4#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

400

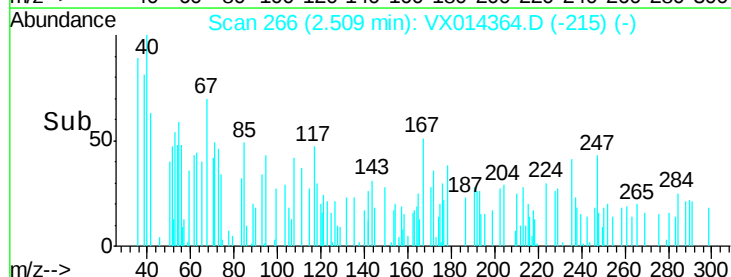
300

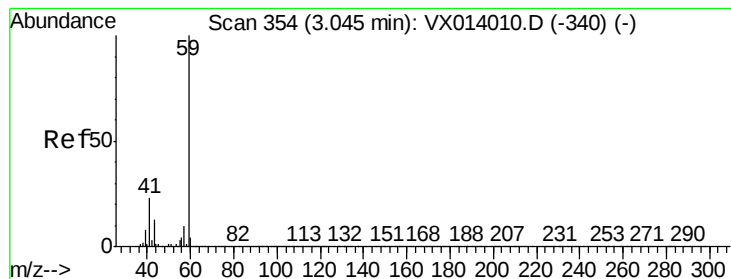
200

100

0

Time--> 2.45 2.50 2.55



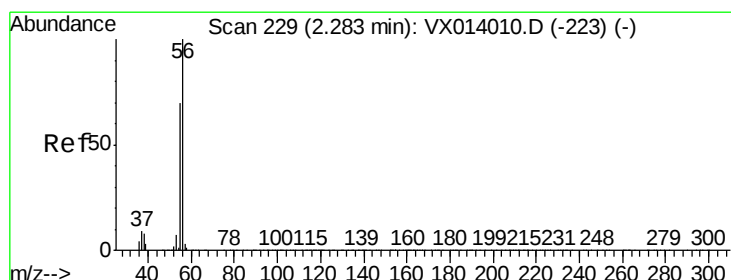
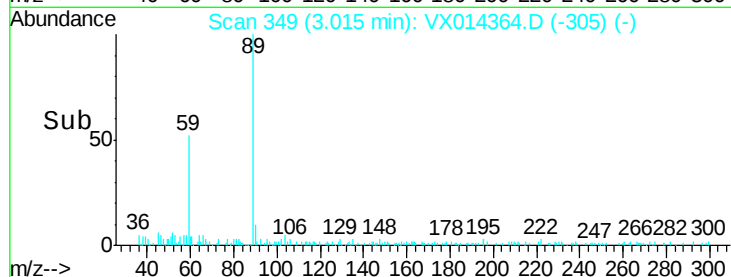
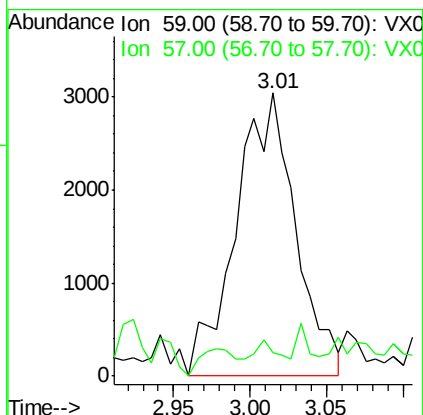
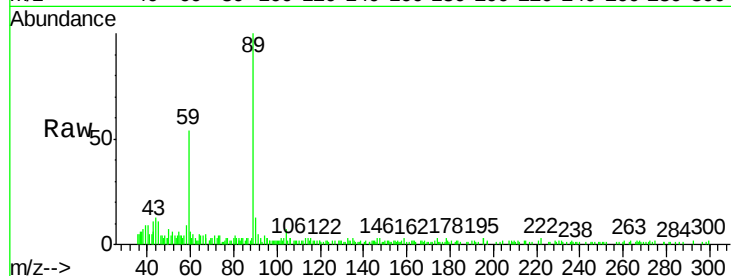


#11

Tert butyl alcohol
 Concen: 6.428 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.03 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125776TB

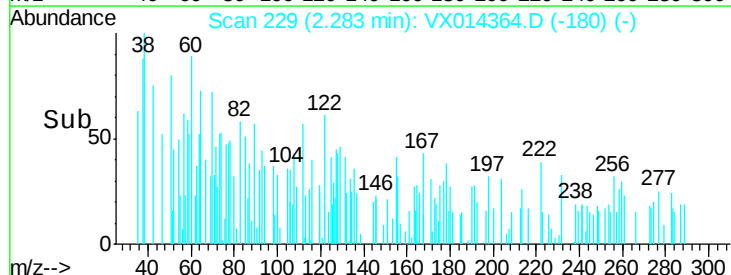
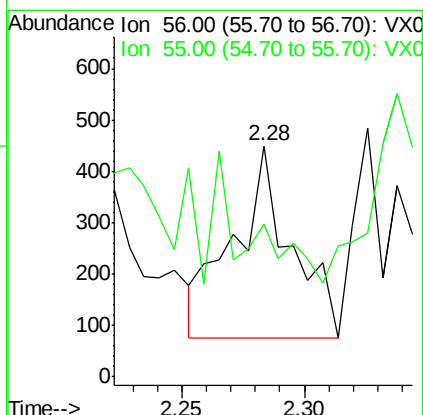
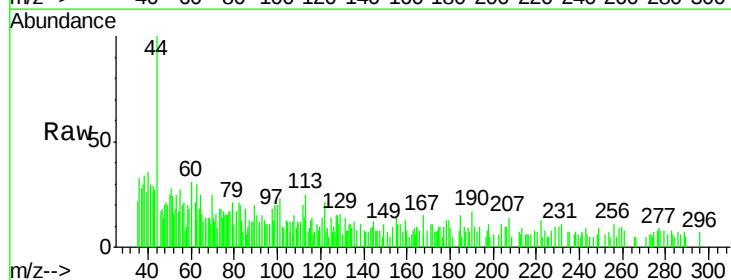
Tot Ion: 59 Resp: 8257
 Ion Ratio Lower Upper
 59 100
 57 1.8 8.4 12.6#

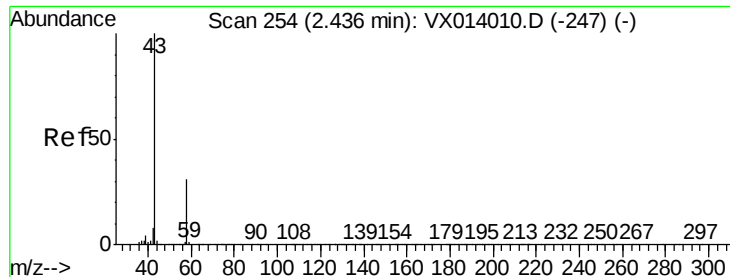


#13

Acrolein
 Concen: 0.827 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

Tgt Ion: 56 Resp: 608
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.9 85.3#





#16

Acetone

Concen: 4.924 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

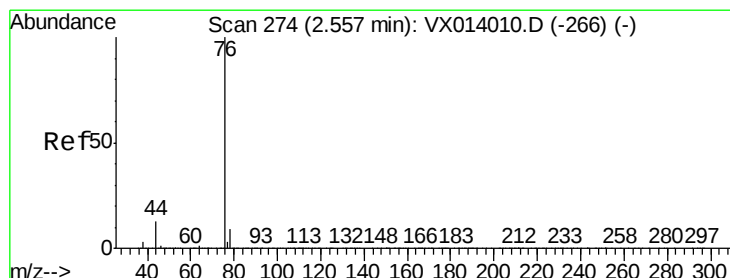
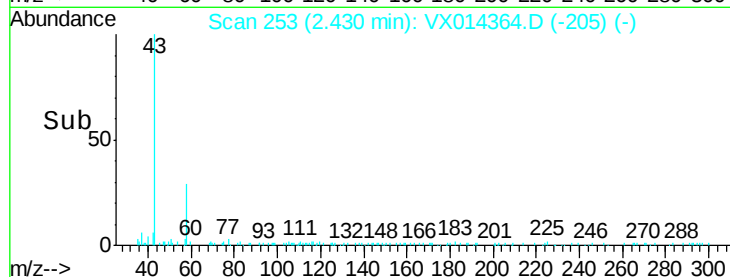
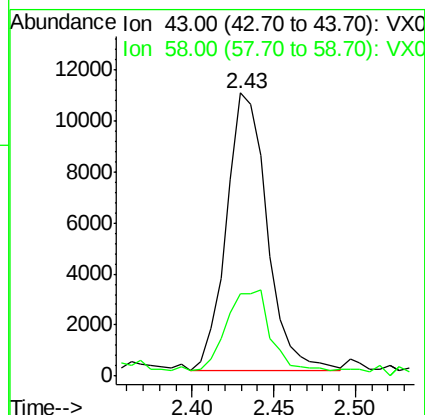
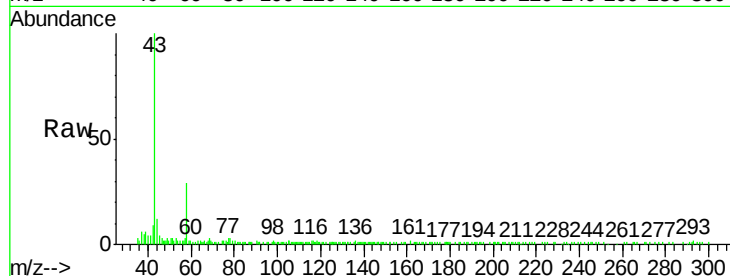
PB125776TB

Tot Ion: 43 Resp: 19005

Ion Ratio Lower Upper

43 100

58 27.9 24.9 37.3



#17

Carbon Disulfide

Concen: 0.822 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX014364.D

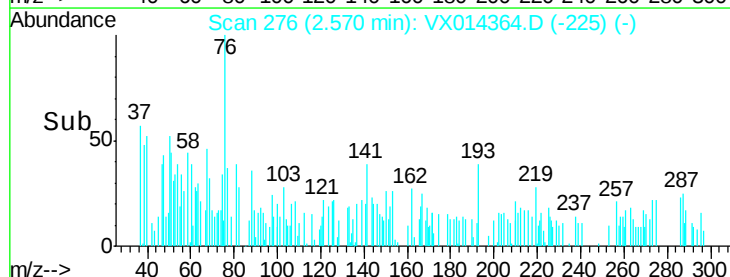
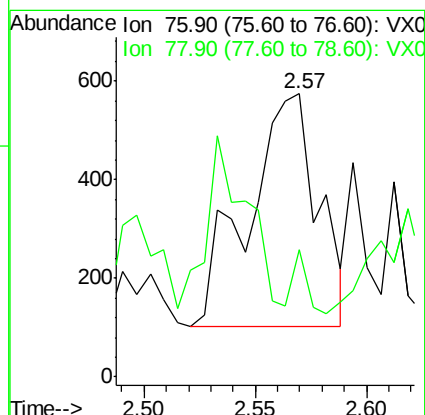
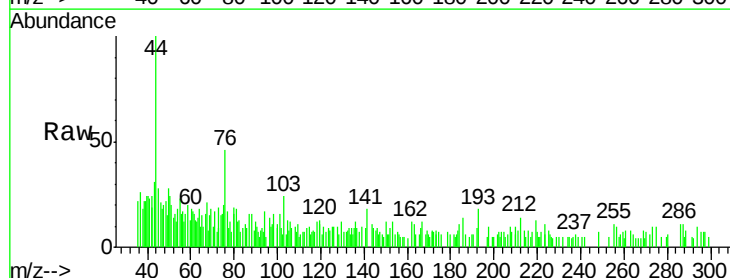
Acq: 30 Dec 2019 19:16

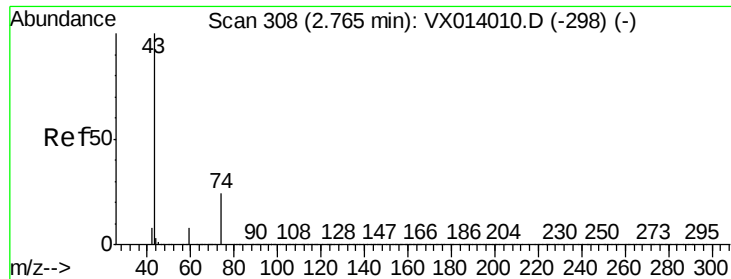
Tgt Ion: 76 Resp: 1028

Ion Ratio Lower Upper

76 100

78 22.7 7.2 10.8#

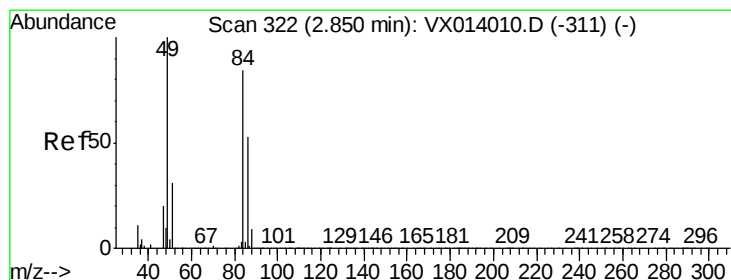
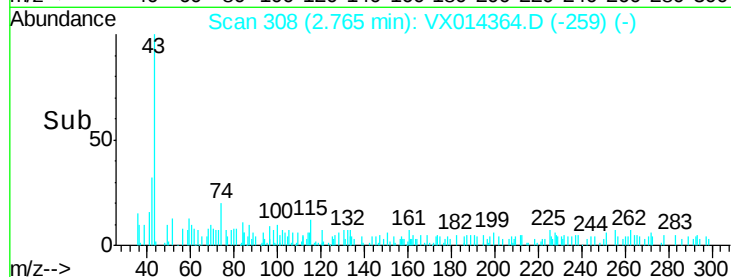
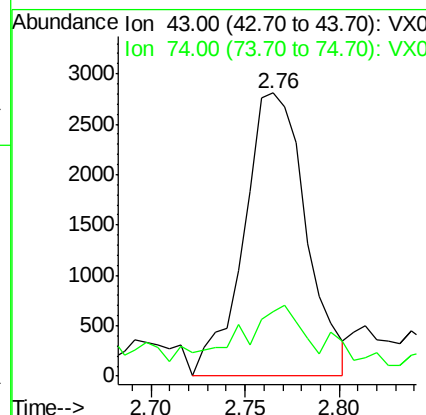
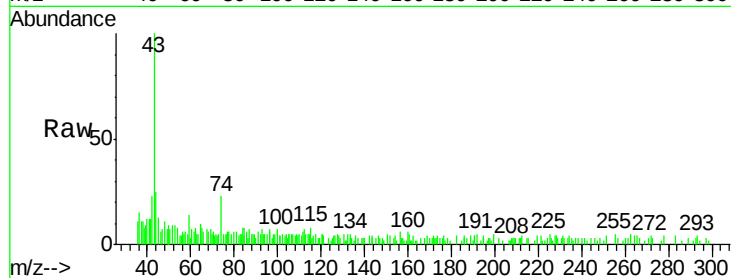




#18
Methyl Acetate
Concen: 0.842 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014364.D
Acq: 30 Dec 2019 19:16

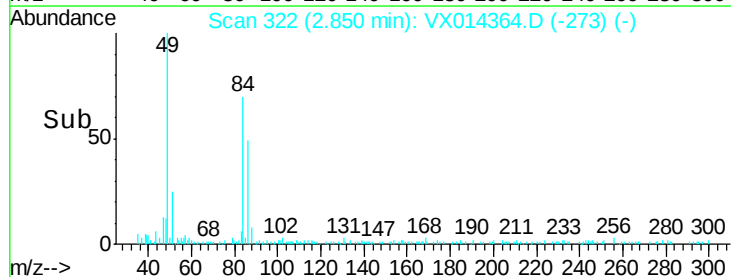
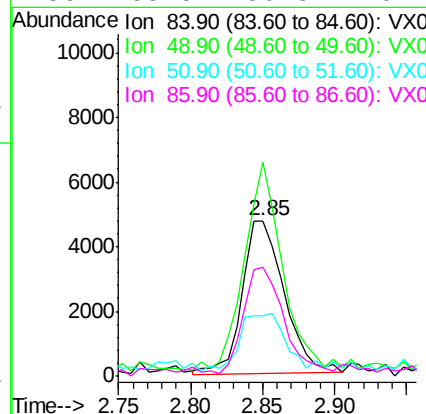
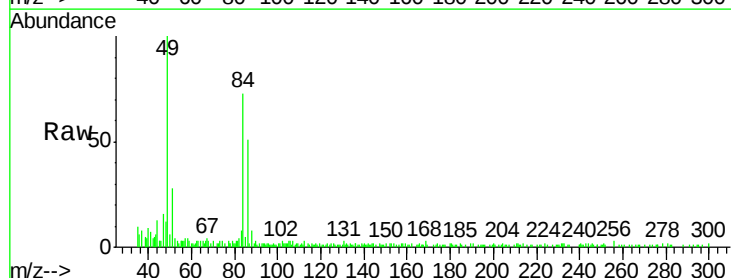
Instrument :
MSVOA_X
ClientSampleId :
PB125776TB

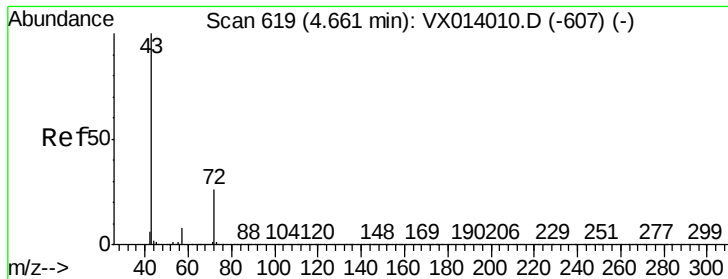
Tot Ion: 43 Resp: 6439
Ion Ratio Lower Upper
43 100
74 19.7 19.5 29.3



#20
Methylene Chloride
Concen: 1.581 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014364.D
Acq: 30 Dec 2019 19:16

Tgt Ion: 84 Resp: 9607
Ion Ratio Lower Upper
84 100
49 136.4 95.8 143.6
51 31.4 29.8 44.8
86 65.8 50.8 76.2





#25

2-Butanone

Concen: 1.718 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

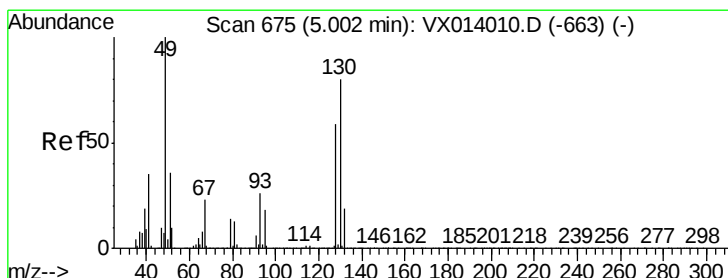
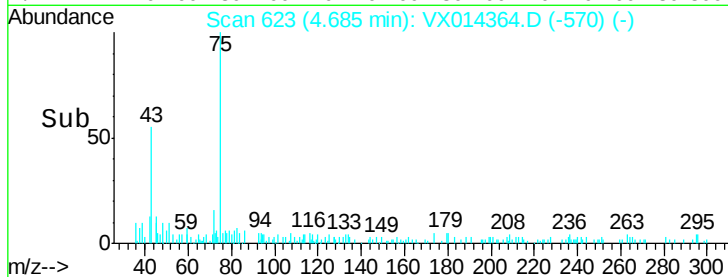
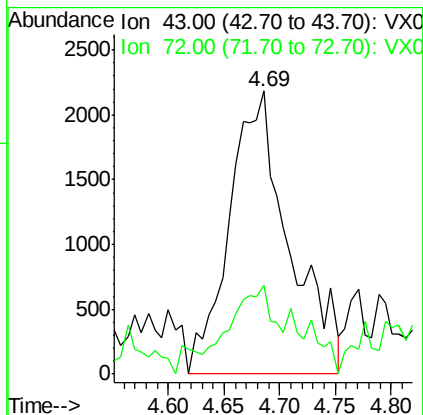
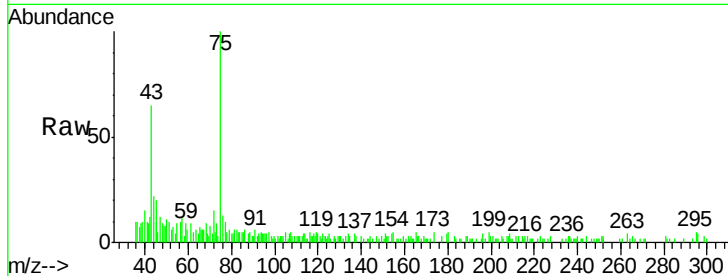
PB125776TB

Tot Ion: 43 Resp: 8174

Ion Ratio Lower Upper

43 100

72 22.5 21.0 31.4



#28

Bromochloromethane

Concen: 0.585 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

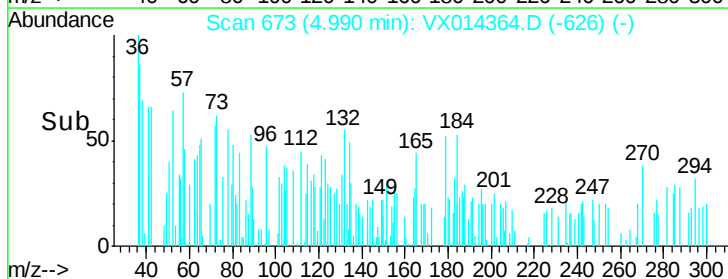
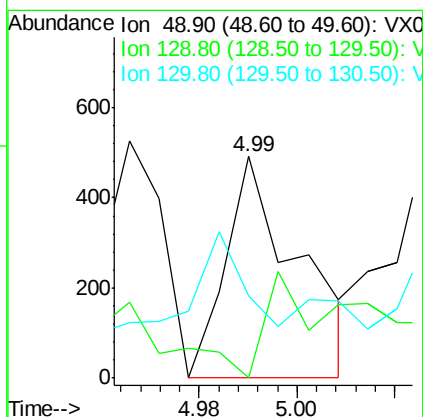
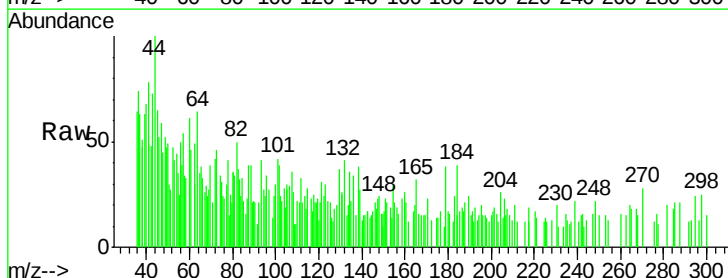
Tgt Ion: 49 Resp: 508

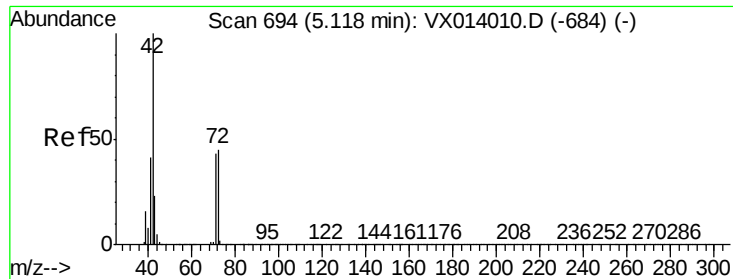
Ion Ratio Lower Upper

49 100

129 19.3 0.0 5.0#

130 59.4 64.6 97.0#

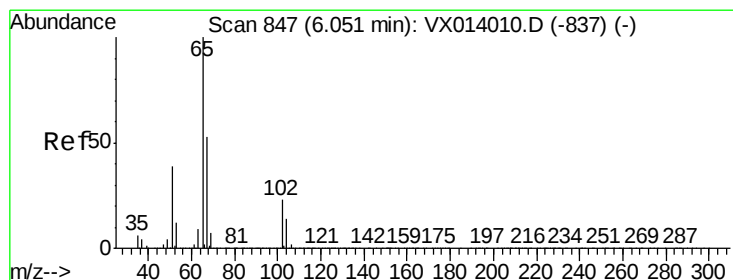
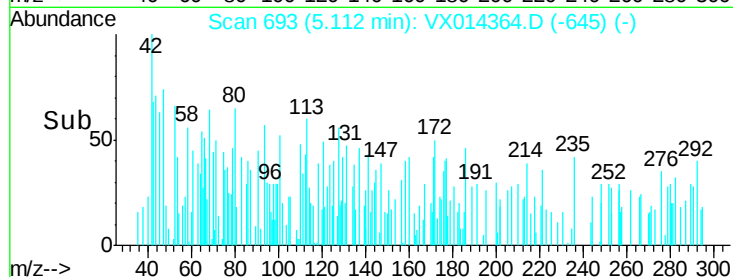
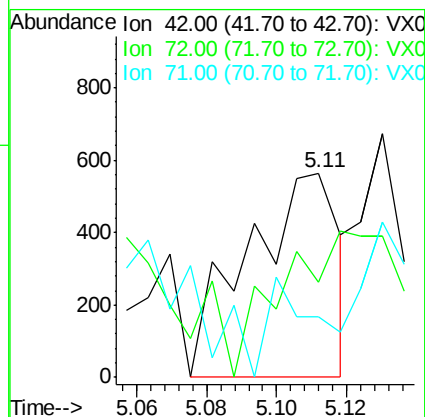
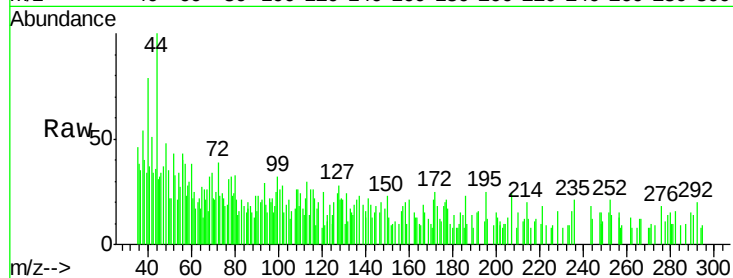




#29
Tetrahydrofuran
Concen: 0.385 ug/l
RT: 5.11 min Scan# 693
Delta R.T. -0.01 min
Lab File: VX014364.D
Acq: 30 Dec 2019 19:16

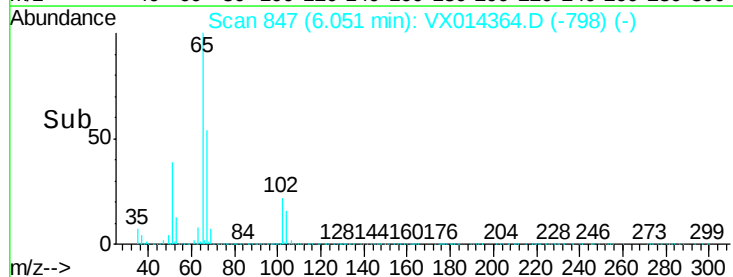
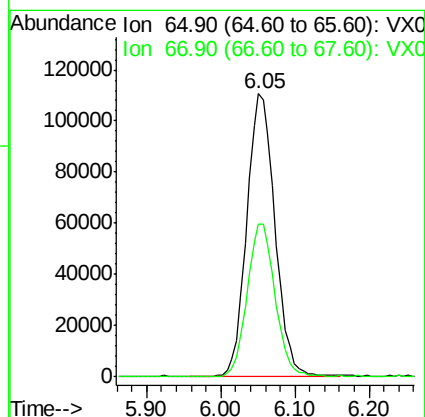
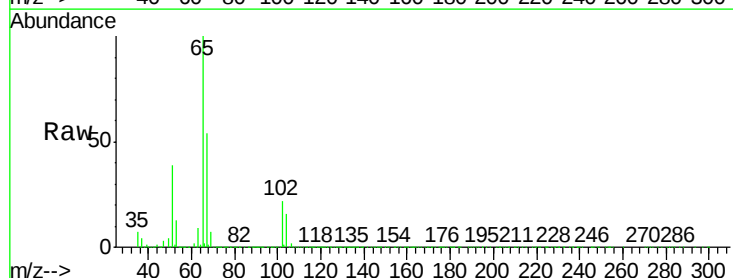
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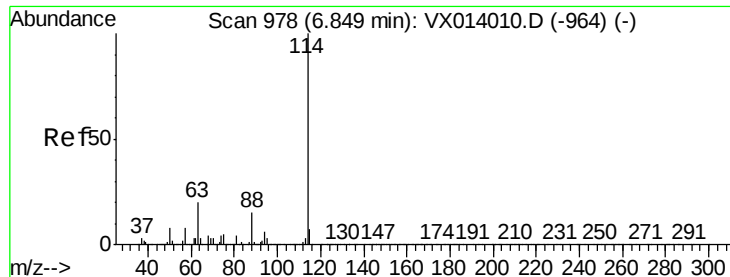
Tot Ion: 42 Resp: 1026
Ion Ratio Lower Upper
42 100
72 96.8 35.8 53.8#
71 26.2 33.6 50.4#



#33
1,2-Dichloroethane-d4
Concen: 49.402 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014364.D
Acq: 30 Dec 2019 19:16

Tgt Ion: 65 Resp: 293701
Ion Ratio Lower Upper
65 100
67 53.4 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: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

PB125776TB

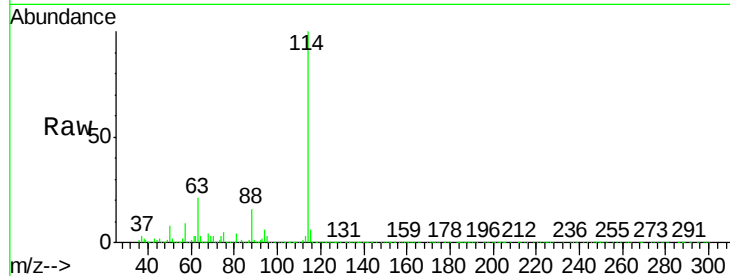
Tot Ion:114 Resp: 814481

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.8

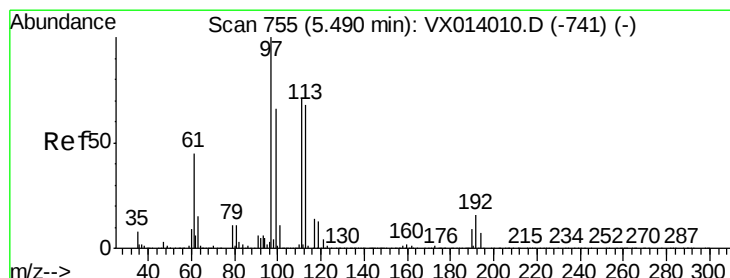
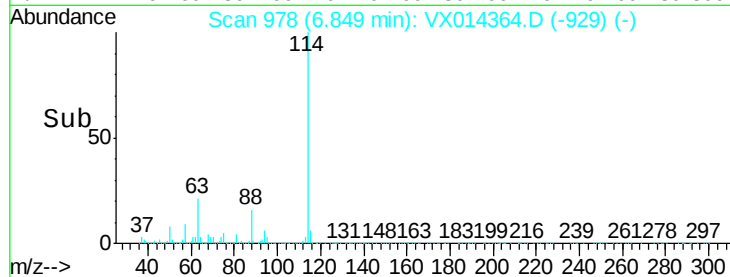
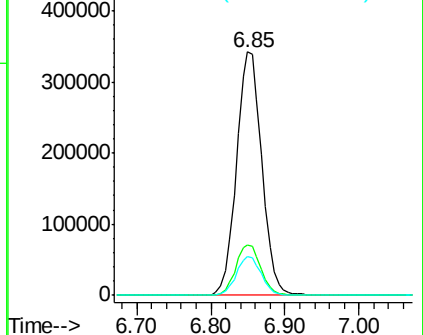
88 15.9 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.329 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

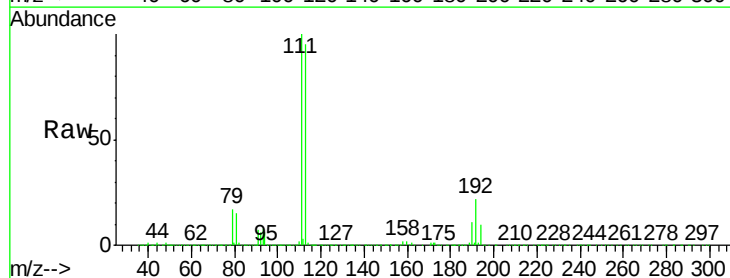
Tgt Ion:113 Resp: 244237

Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

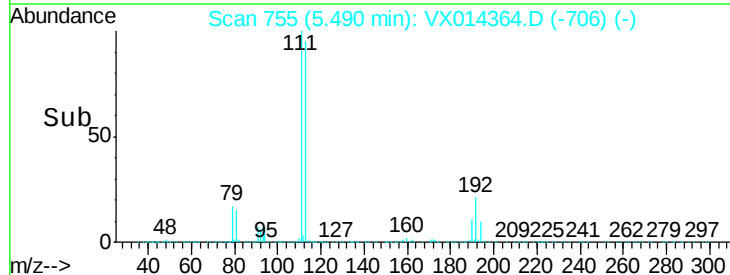
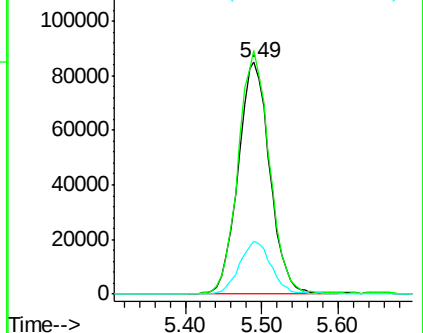
192 22.8 19.3 28.9

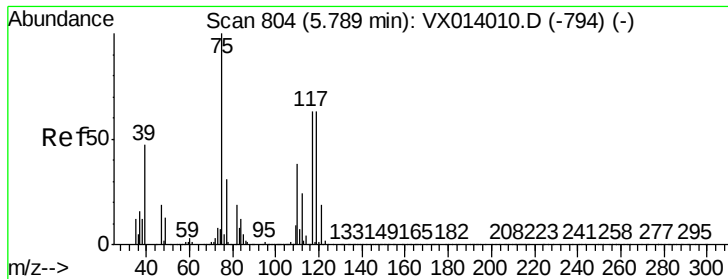


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

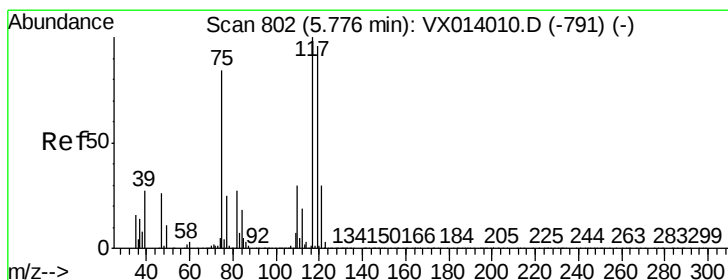
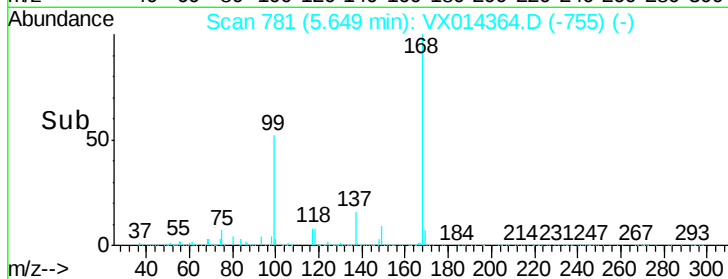
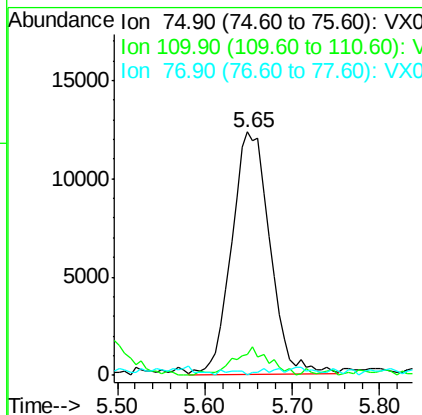
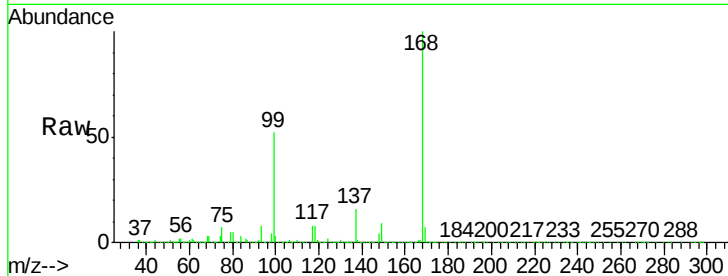




#36
 1,1-Dichloropropene
 Concen: 5.002 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

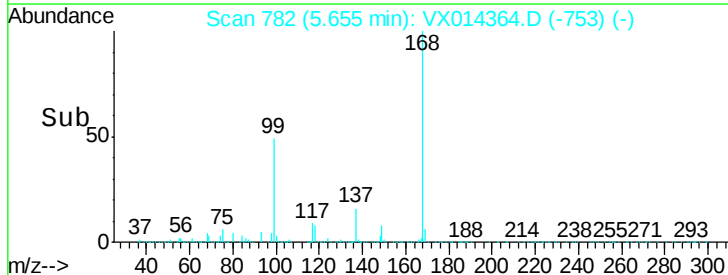
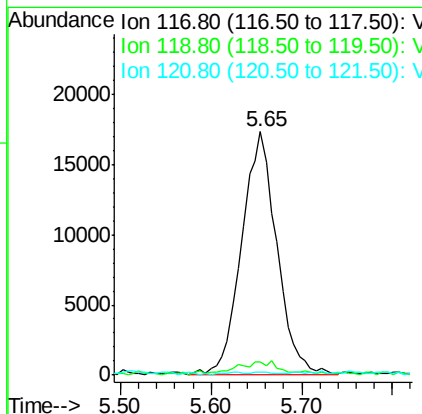
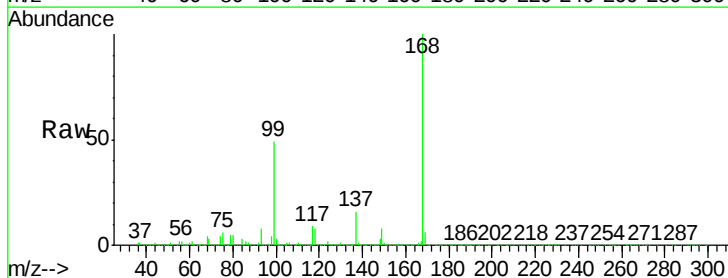
Instrument :
 MSVOA_X
 ClientSampleId :
 PB125776TB

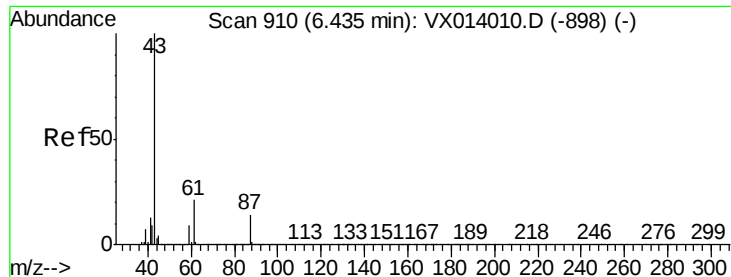
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.3	54.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.867 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.2	114.4#
121	0.0	23.6	35.4#





#43

Isopropyl Acetate

Concen: 10.757 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

PB125776TB

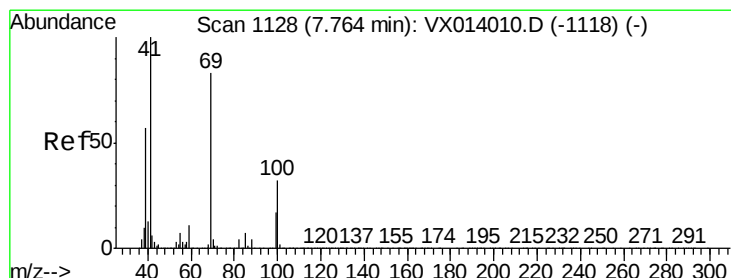
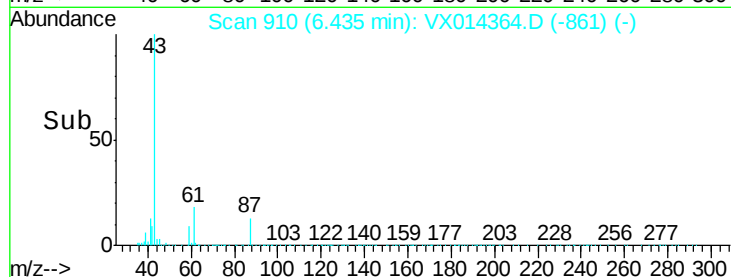
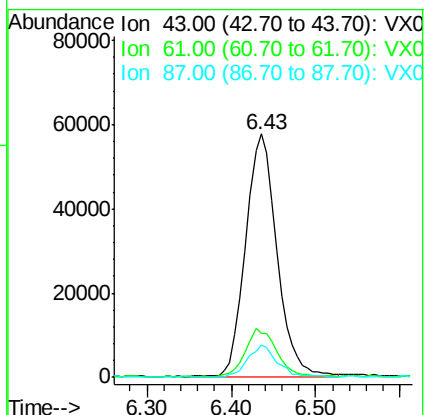
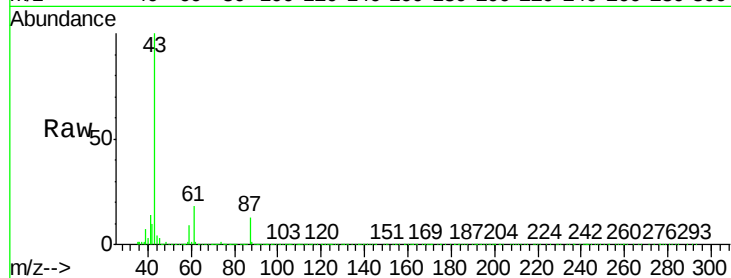
Tot Ion: 43 Resp: 146912

Ion Ratio Lower Upper

43 100

61 19.8 16.4 24.6

87 12.5 10.7 16.1



#48

Methyl methacrylate

Concen: 1.136 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. -0.09 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

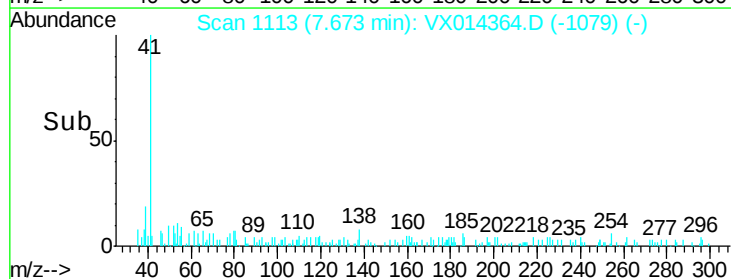
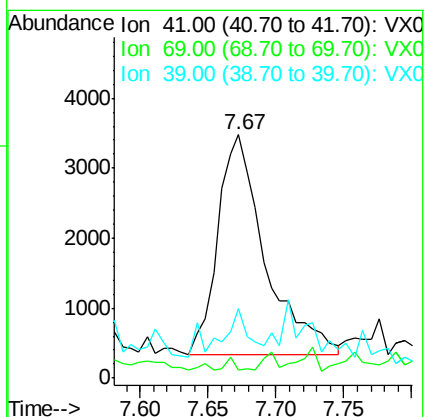
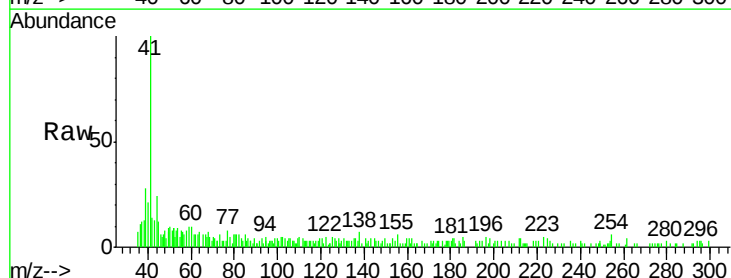
Tgt Ion: 41 Resp: 7600

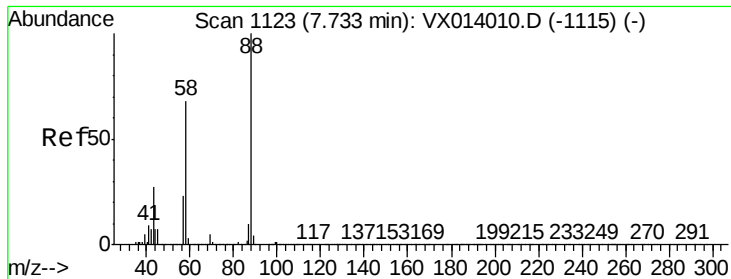
Ion Ratio Lower Upper

41 100

69 1.0 65.8 98.6#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 0.367 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

PB125776TB

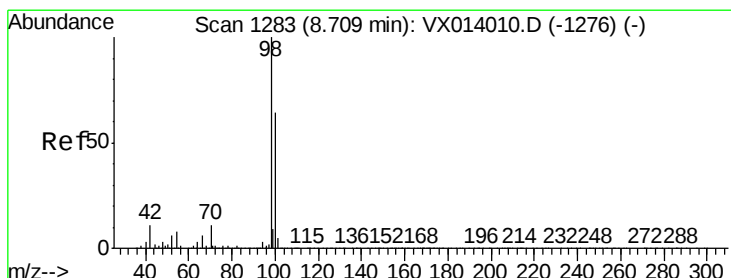
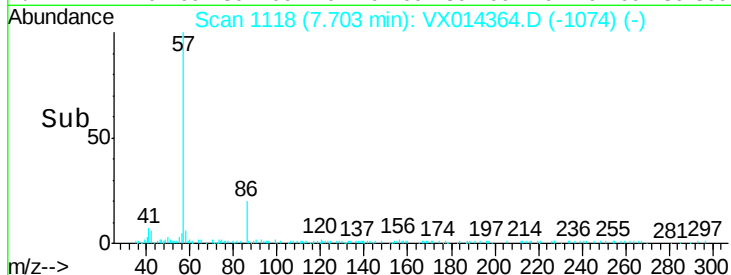
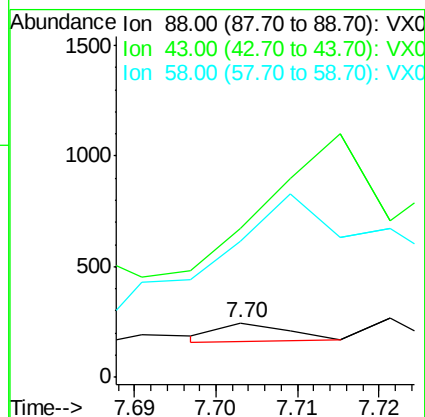
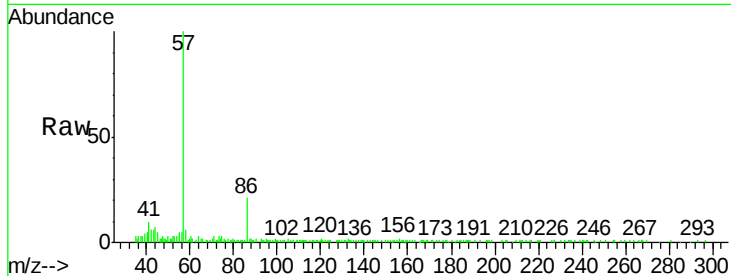
Tot Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 2594.0 56.8 85.2#



#50

Toluene-d8

Concen: 51.268 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014364.D

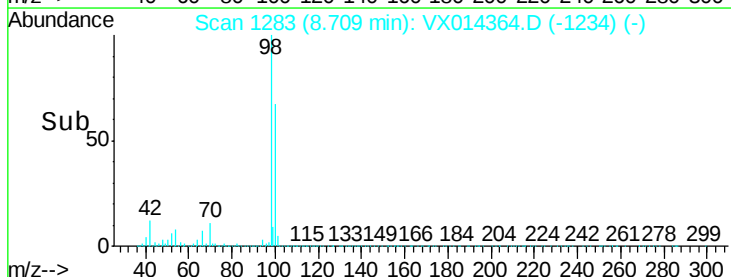
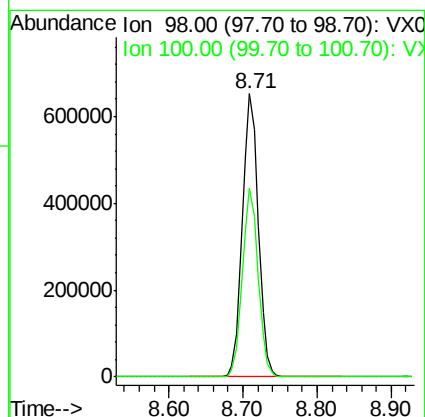
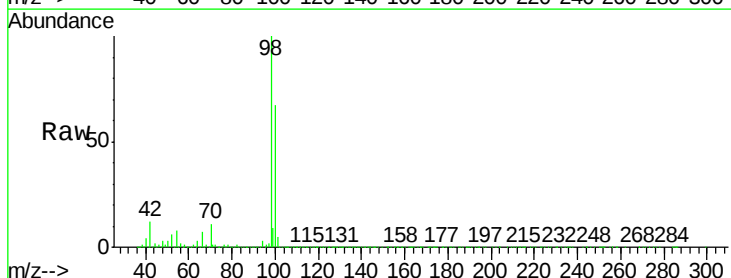
Acq: 30 Dec 2019 19:16

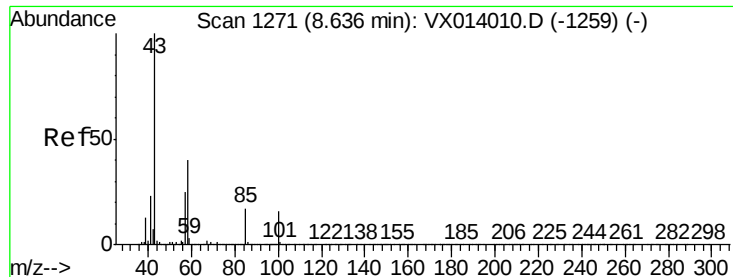
Tgt Ion: 98 Resp: 988252

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 15.973 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

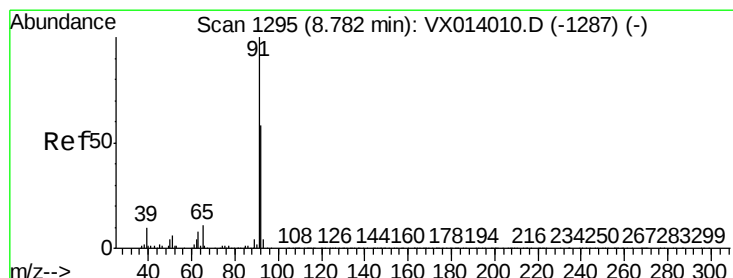
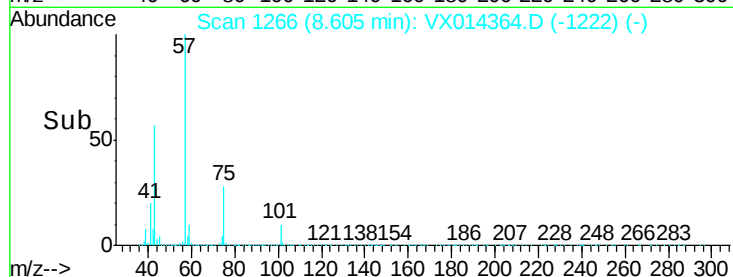
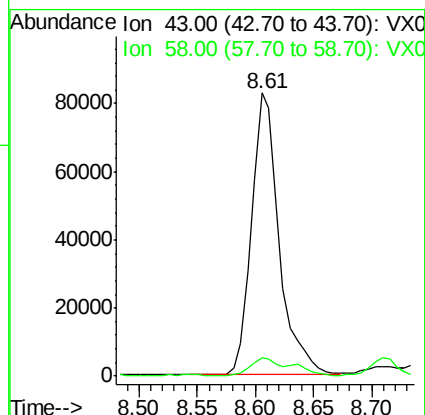
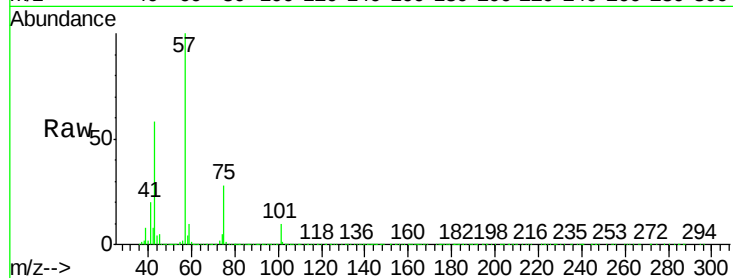
PB125776TB

Tot Ion: 43 Resp: 137008

Ion Ratio Lower Upper

43 100

58 6.7 32.2 48.2#



#52

Toluene

Concen: 0.275 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX014364.D

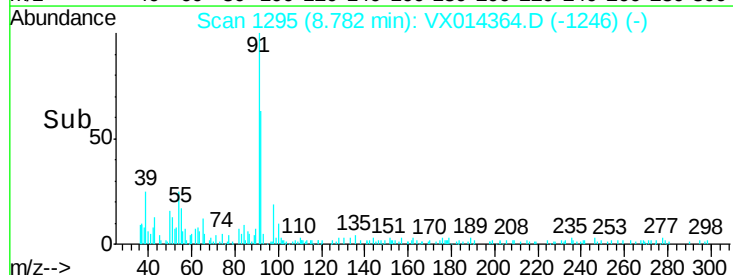
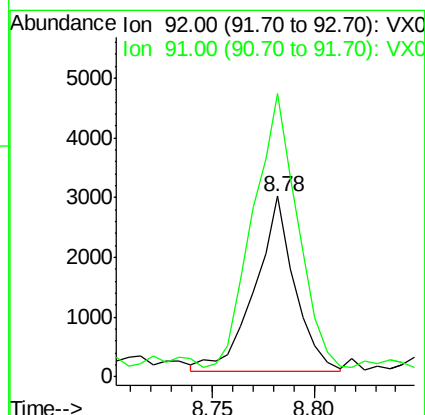
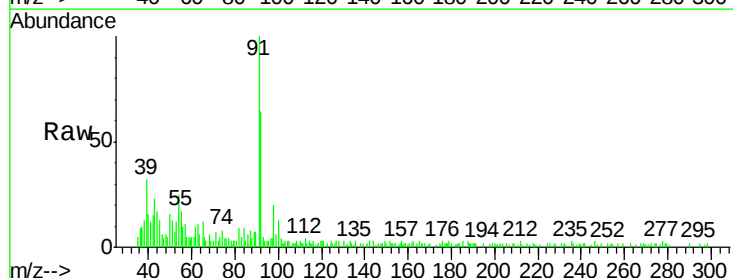
Acq: 30 Dec 2019 19:16

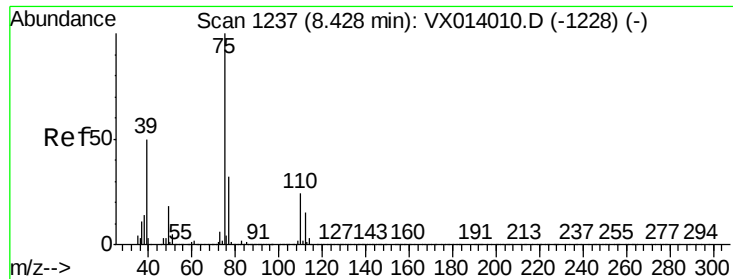
Tgt Ion: 92 Resp: 3999

Ion Ratio Lower Upper

92 100

91 174.0 136.2 204.4

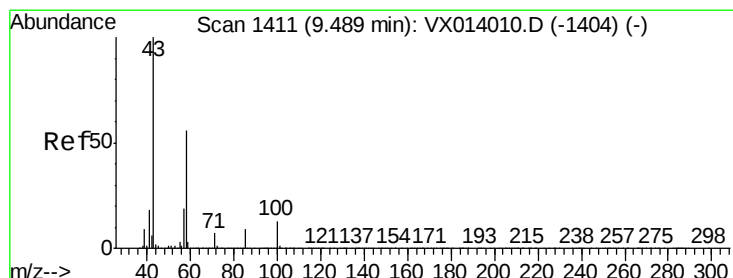
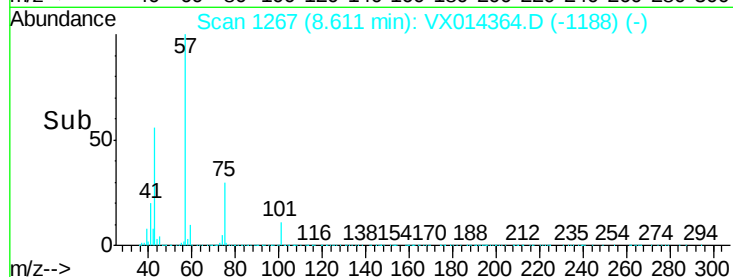
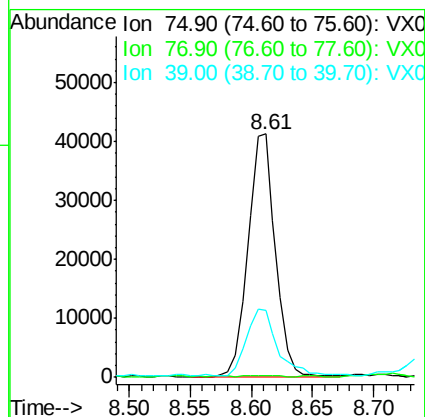
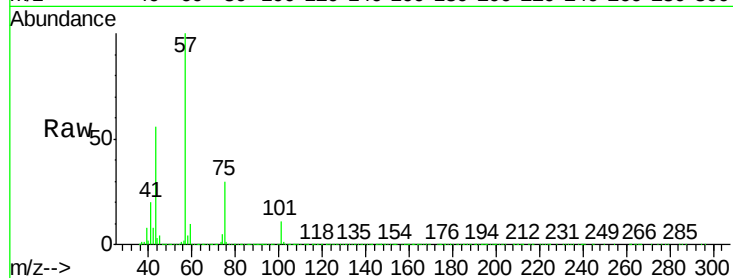




#54
 cis-1,3-Dichloropropene
 Concen: 7.089 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

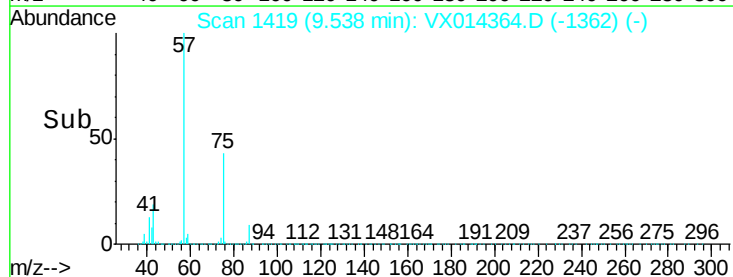
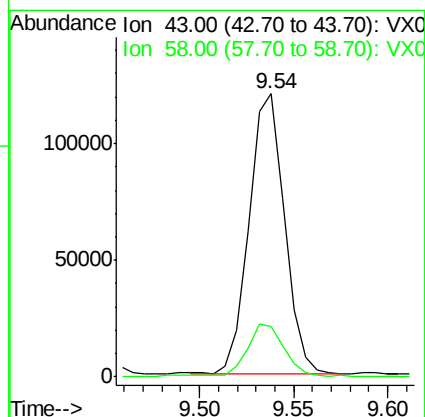
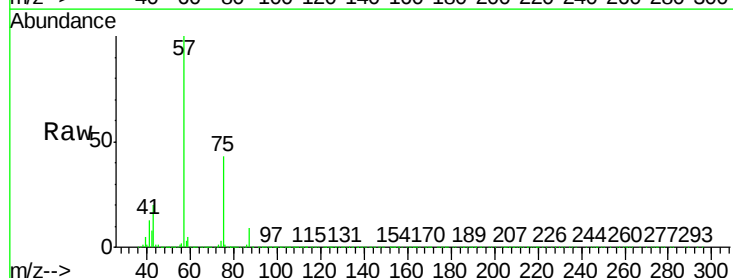
Instrument :
 MSVOA_X
 ClientSampled :
 PB125776TB

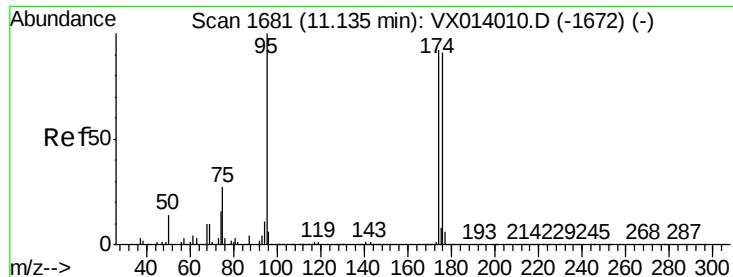
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.2	25.3	37.9#
39	27.2	39.9	59.9#



#59
 2-Hexanone
 Concen: 22.709 ug/l
 RT: 9.54 min Scan# 1419
 Delta R.T. 0.05 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.7	28.0	84.0#

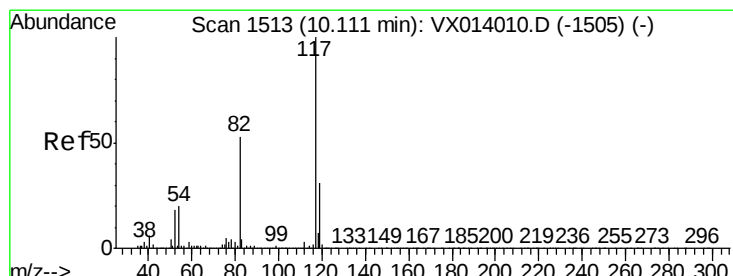
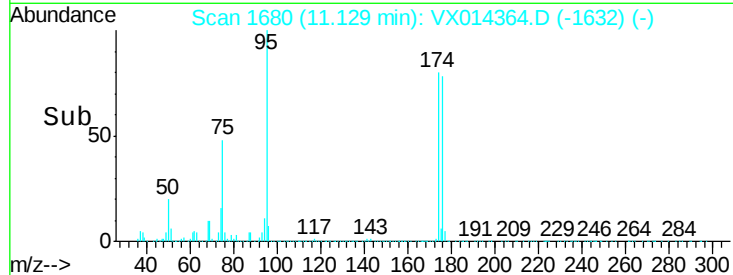
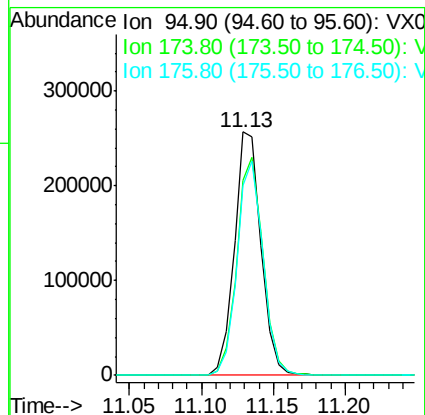
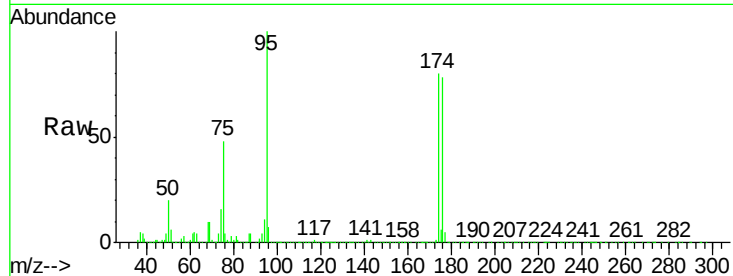




#62
4-Bromofluorobenzene
Concen: 47.168 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014364.D
Acq: 30 Dec 2019 19:16

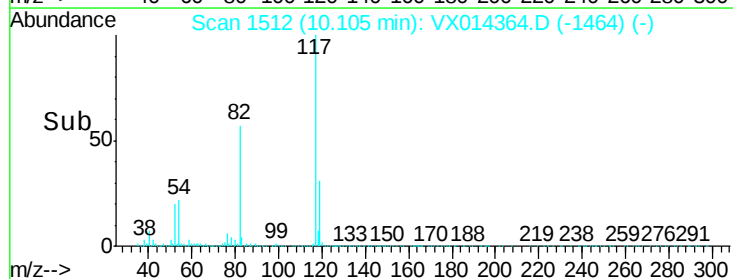
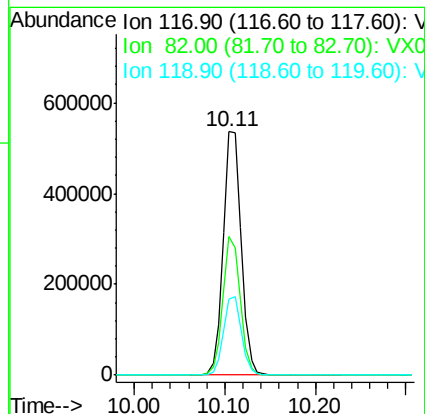
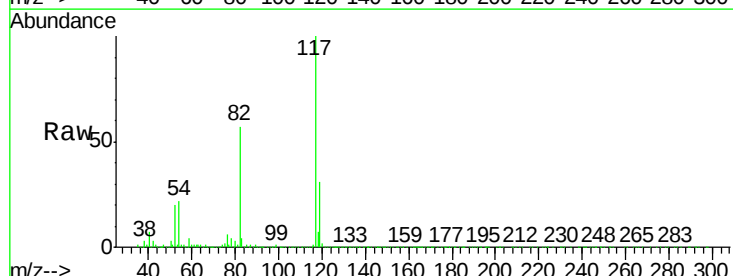
Instrument :
MSVOA_X
ClientSampleId :
PB125776TB

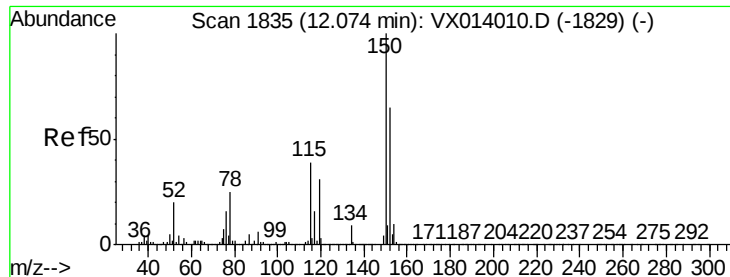
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	175.8
176	85.8	0.0	173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014364.D
Acq: 30 Dec 2019 19:16

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.0	42.2	63.4
119	31.1	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: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampled :

PB125776TB

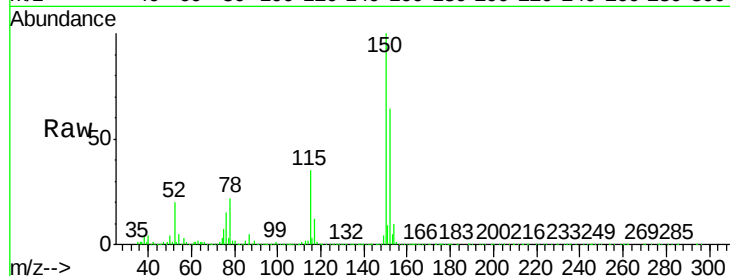
Tot Ion:152 Resp: 327679

Ion Ratio Lower Upper

152 100

115 55.4 38.3 114.9

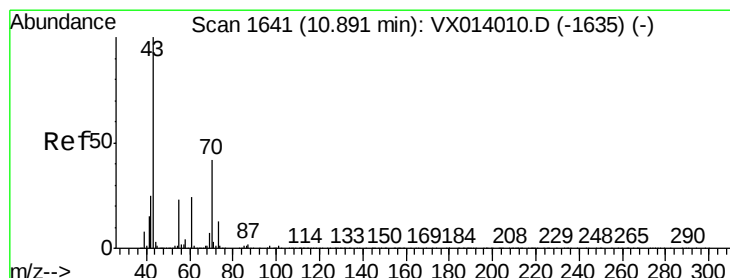
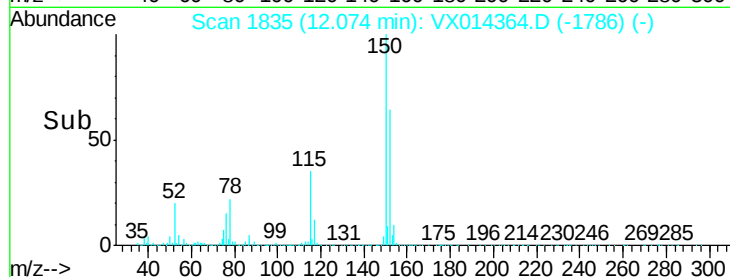
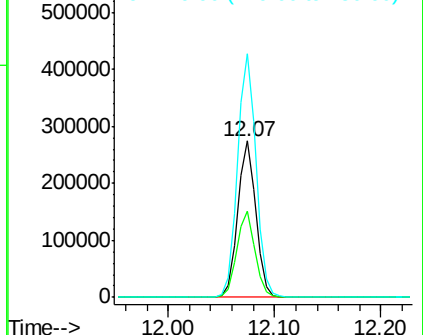
150 158.9 0.0 345.4



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-ethyl acetate

Concen: 0.559 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

Tgt Ion: 43 Resp: 6049

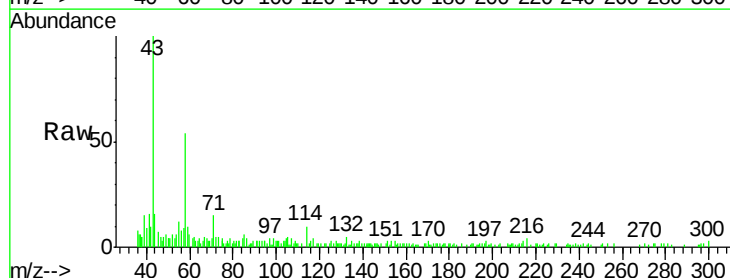
Ion Ratio Lower Upper

43 100

70 0.0 34.4 51.6#

55 12.6 19.1 28.7#

61 0.0 19.7 29.5#

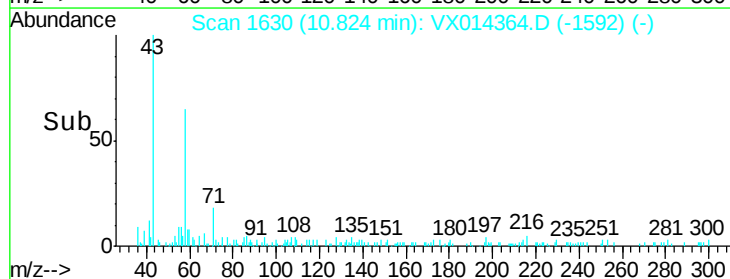
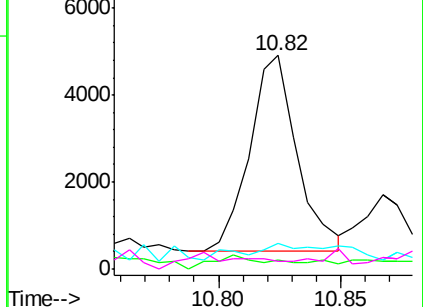


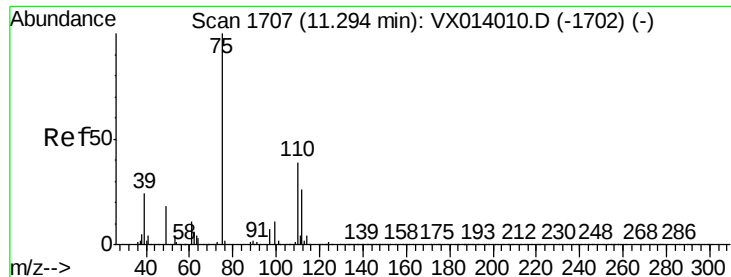
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

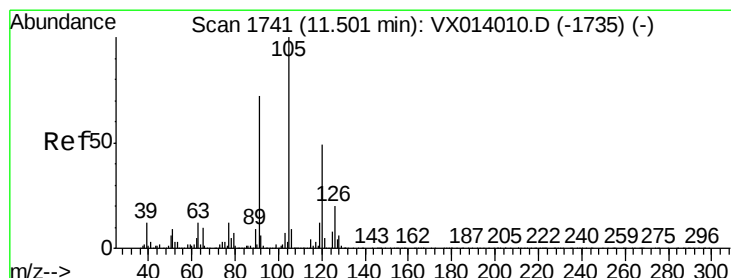
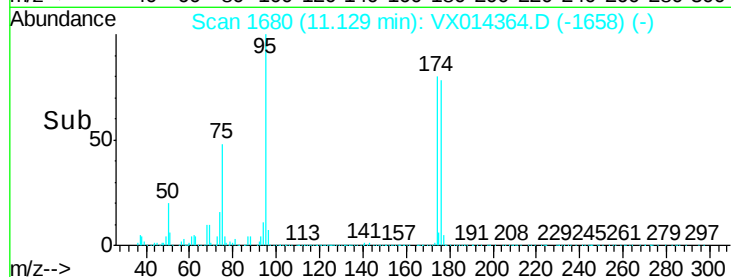
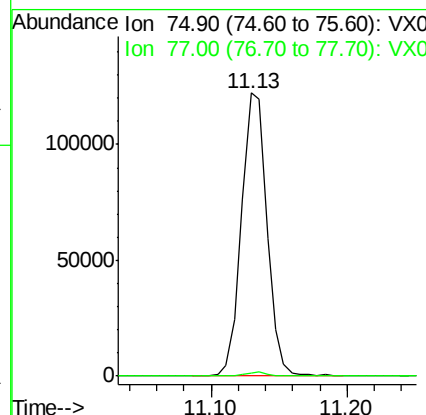
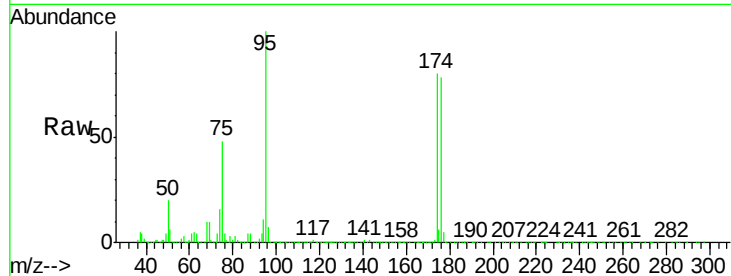




#76
 1,2,3-Trichloropropane
 Concen: 22.345 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

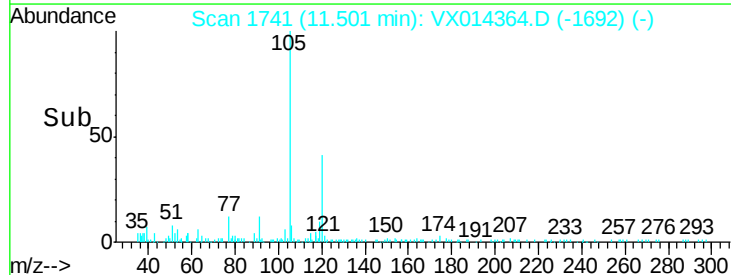
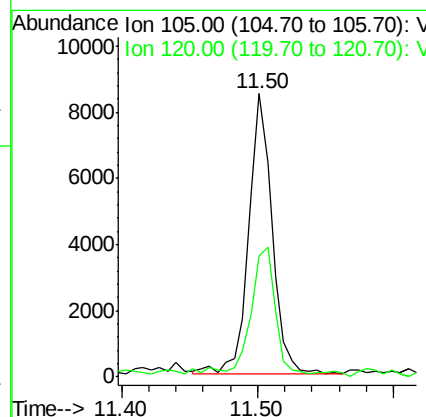
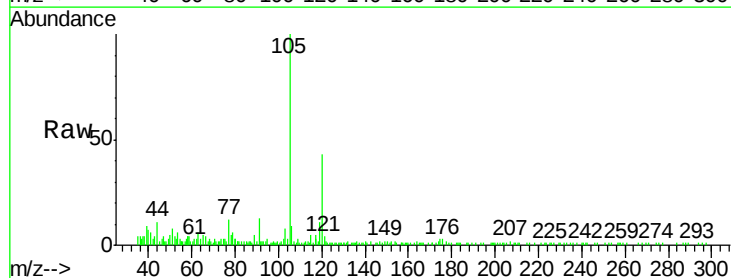
Instrument :
 MSVOA_X
 ClientSampled :
 PB125776TB

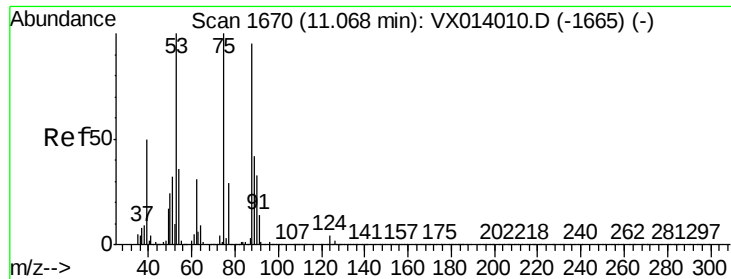
Tot Ion: 75 Resp: 158960
 Ion Ratio Lower Upper
 75 100
 77 1.5 19.3 57.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.521 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX014364.D
 Acq: 30 Dec 2019 19:16

Tgt Ion:105 Resp: 10112
 Ion Ratio Lower Upper
 105 100
 120 48.1 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 63.070 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014364.D

Acq: 30 Dec 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

PB125776TB

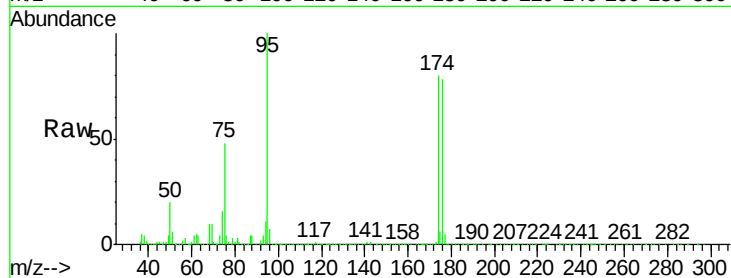
Tot Ion: 75 Resp: 158960

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 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

