

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014337.D
 Acq On : 28 Dec 2019 03:23
 Operator : JC/SP
 Sample : K6117-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-122619

Quant Time: Dec 30 05:45:31 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	519072	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	809348	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	733748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	332187	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	288945	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
35) Dibromofluoromethane	5.49	113	241198	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
50) Toluene-d8	8.71	98	974004	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
62) 4-Bromofluorobenzene	11.13	95	328327	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	

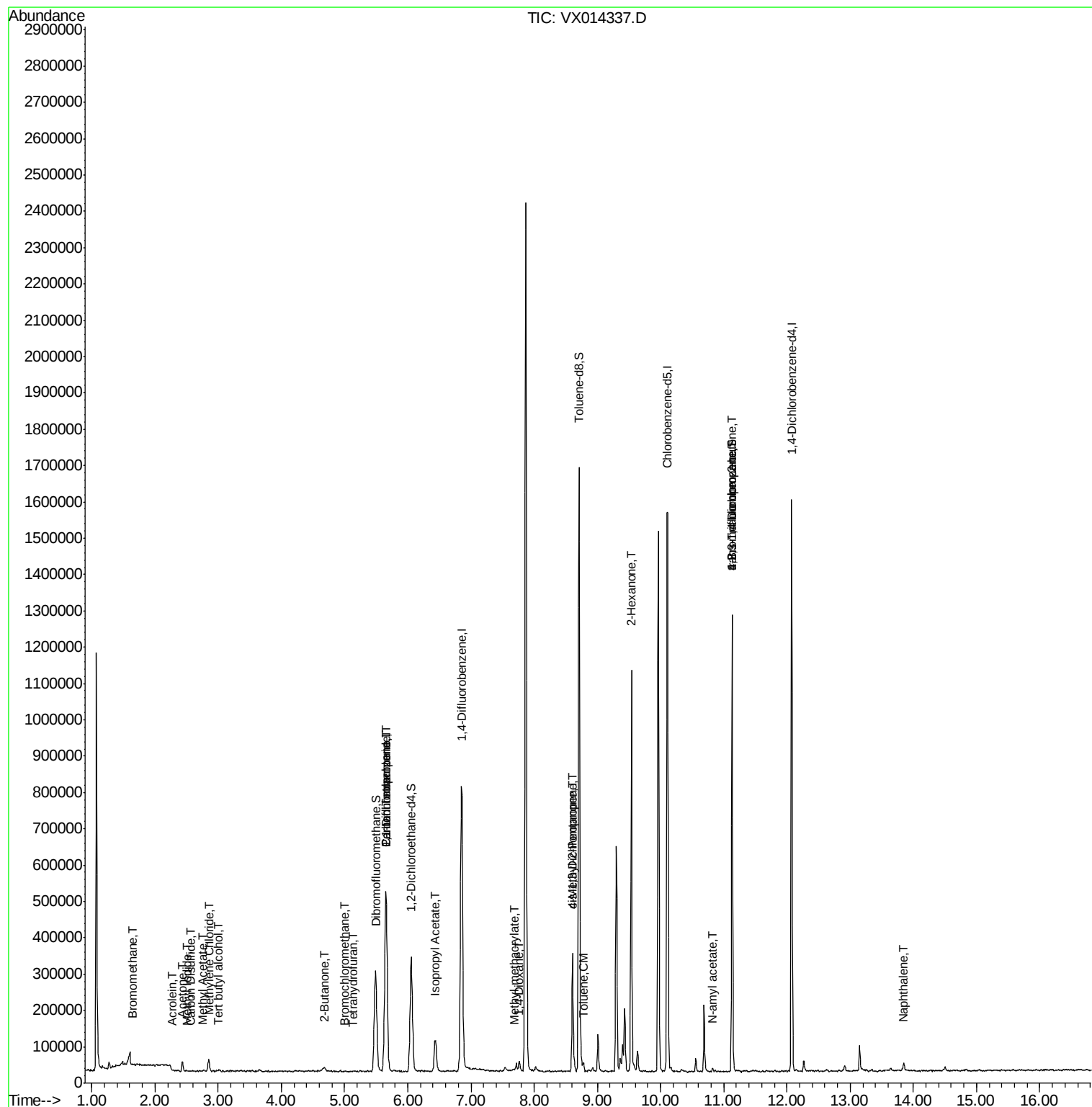
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1690	0.362	ug/l #	67
10) Methyl Iodide	2.51	142	433	2.684	ug/l #	34
11) Tert butyl alcohol	3.01	59	3874	3.048	ug/l #	88
13) Acrolein	2.28	56	447	0.614	ug/l #	50
16) Acetone	2.43	43	29292	7.669	ug/l	99
17) Carbon Disulfide	2.56	76	2574	0.933	ug/l #	82
18) Methyl Acetate	2.76	43	5689	0.752	ug/l	92
20) Methylene Chloride	2.85	84	16250	2.702	ug/l	96
25) 2-Butanone	4.67	43	3651	0.775	ug/l #	81
28) Bromochloromethane	5.00	49	486	0.580	ug/l #	9
29) Tetrahydrofuran	5.14	42	1112	0.422	ug/l #	62
36) 1,1-Dichloropropene	5.65	75	34529	4.650	ug/l #	49
38) Carbon Tetrachloride	5.65	117	44824	6.626	ug/l #	18
43) Isopropyl Acetate	6.44	43	122865	9.053	ug/l	98
48) Methyl methacrylate	7.67	41	6493	0.977	ug/l #	16
49) 1,4-Dioxane	7.75	88	308	2.277	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	115836	13.591	ug/l #	49
52) Toluene	8.78	92	6756	0.468	ug/l	99
54) cis-1,3-Dichloropropene	8.61	75	52567	5.901	ug/l #	59
59) 2-Hexanone	9.54	43	133318	19.431	ug/l #	48
74) N-amyl acetate	10.82	43	5773	0.527	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	160848	22.304	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	160848	62.953	ug/l #	12
95) Naphthalene	13.83	128	4867	0.224	ug/l #	65

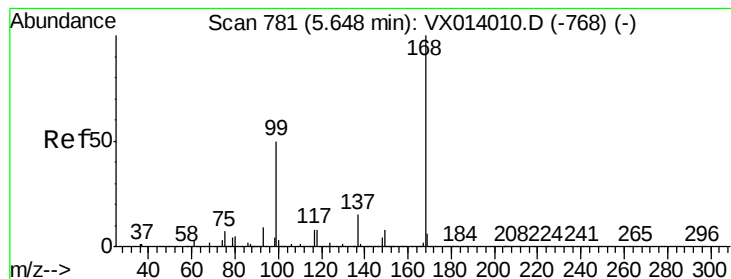
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

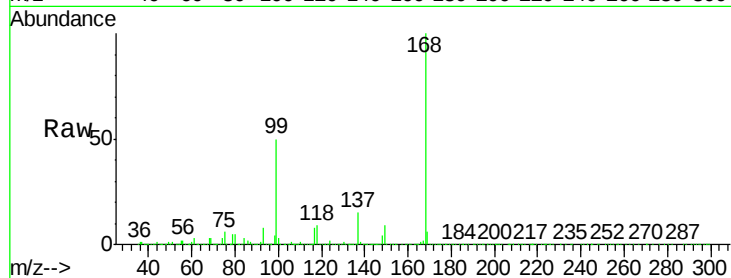
TR-05-122619

Tgt Ion: 168 Resp: 519072

Ion Ratio Lower Upper

168 100

99 50.0 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

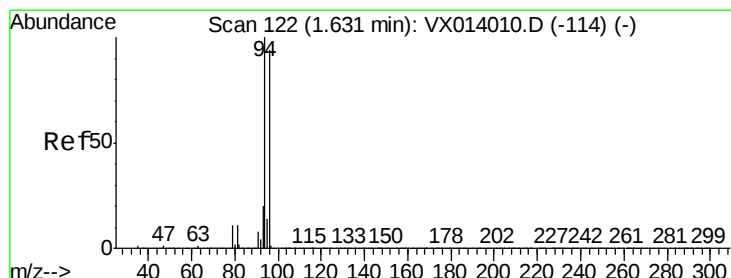
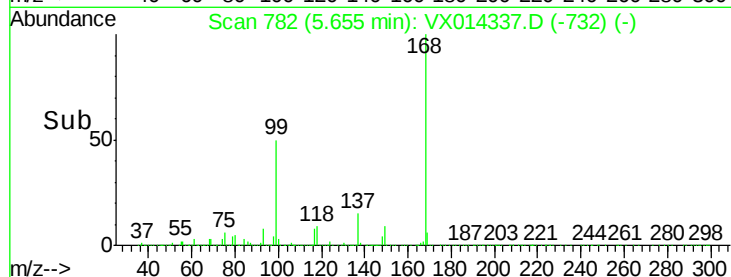
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.362 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014337.D

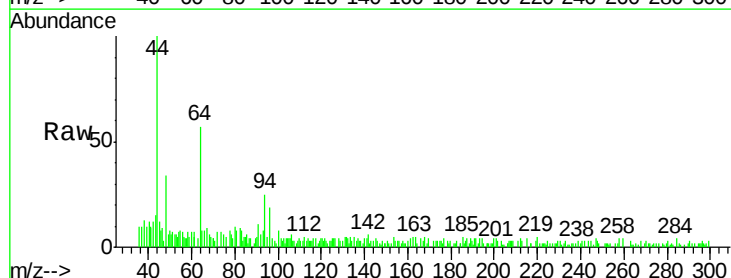
Acq: 28 Dec 2019 03:23

Tgt Ion: 94 Resp: 1690

Ion Ratio Lower Upper

94 100

96 62.1 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

600

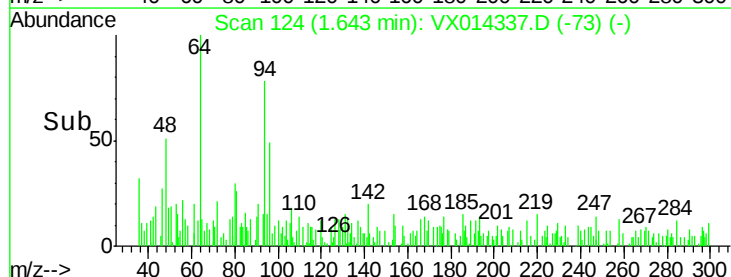
400

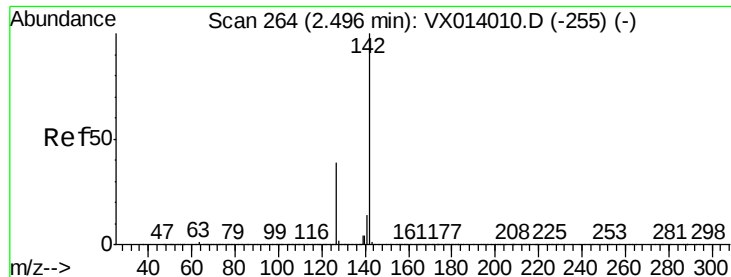
200

0

Time-->

1.55 1.60 1.65 1.70





#10

Methyl Iodide

Concen: 2.684 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

TR-05-122619

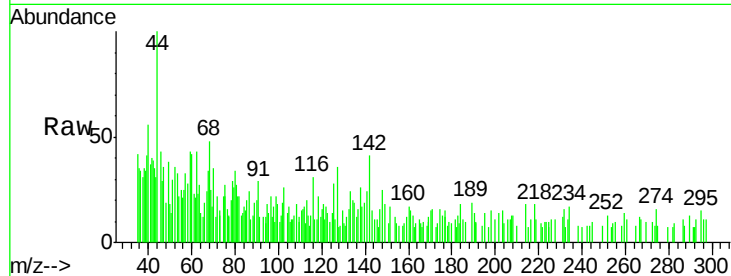
Tgt Ion:142 Resp: 433

Ion Ratio Lower Upper

142 100

127 86.8 31.6 47.4#

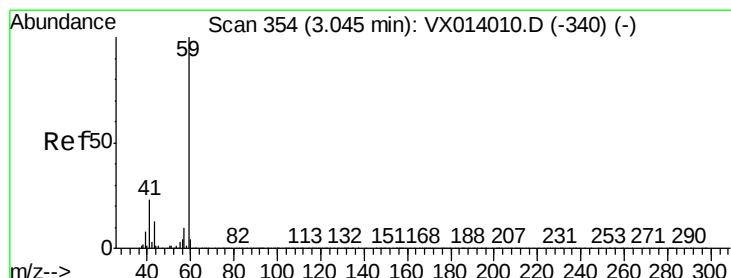
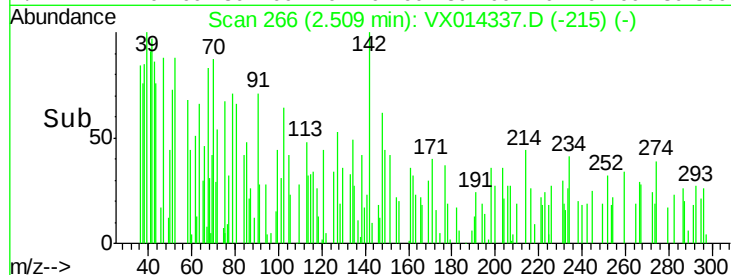
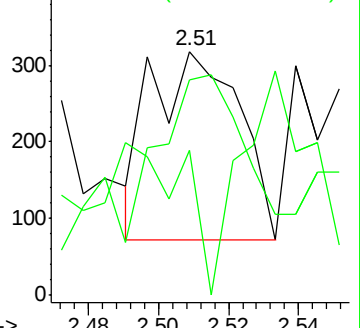
141 0.0 11.6 17.4#



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



#11

Tert butyl alcohol

Concen: 3.048 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.04 min

Lab File: VX014337.D

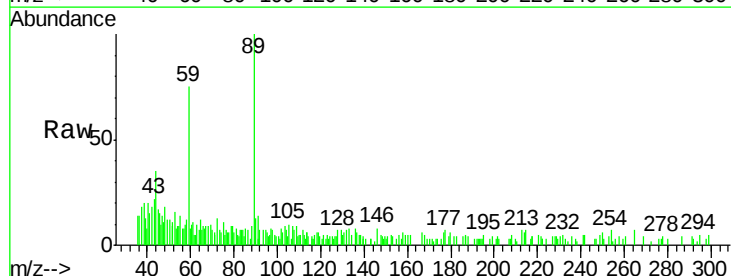
Acq: 28 Dec 2019 03:23

Tgt Ion: 59 Resp: 3874

Ion Ratio Lower Upper

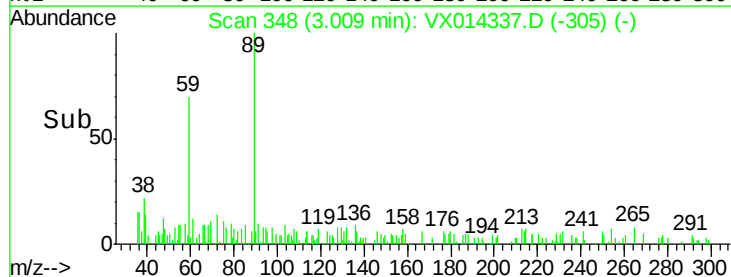
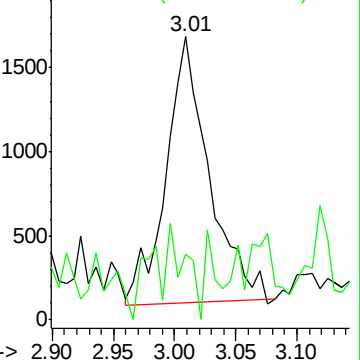
59 100

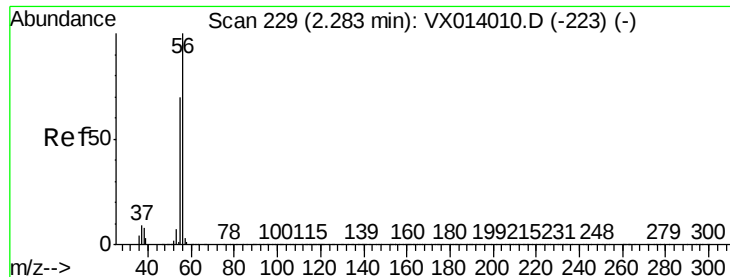
57 14.8 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.614 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

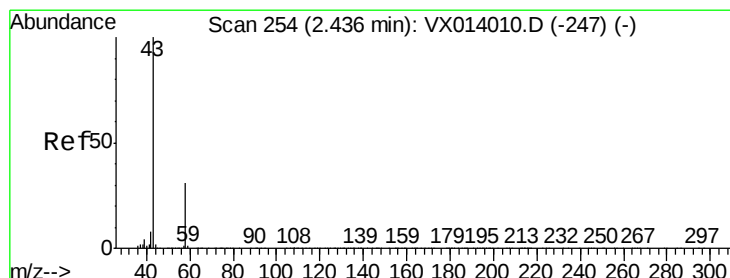
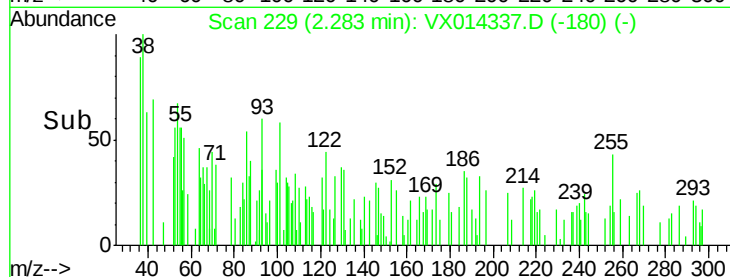
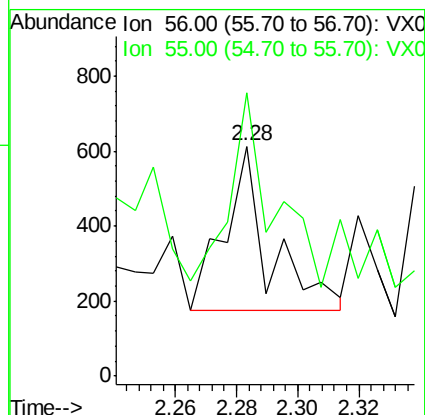
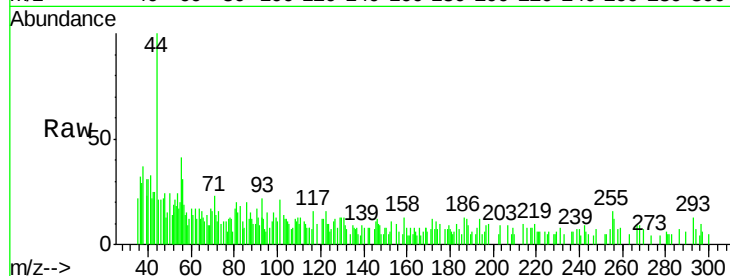
TR-05-122619

Tgt Ion: 56 Resp: 447

Ion Ratio Lower Upper

56 100

55 112.8 56.9 85.3#



#16

Acetone

Concen: 7.669 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014337.D

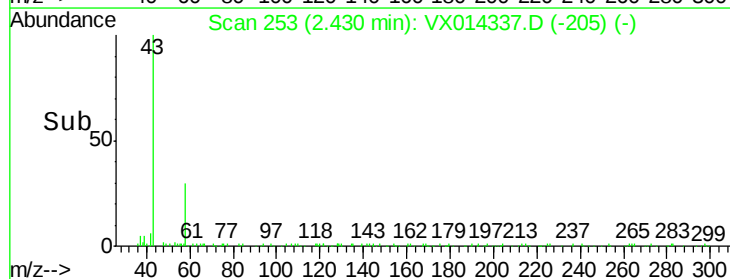
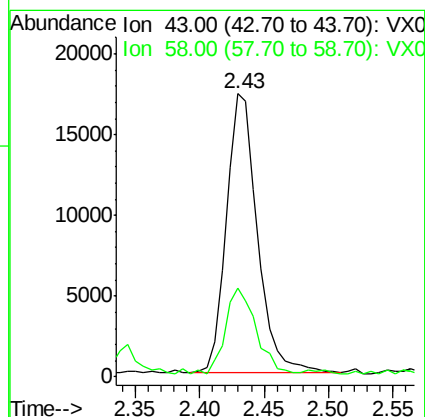
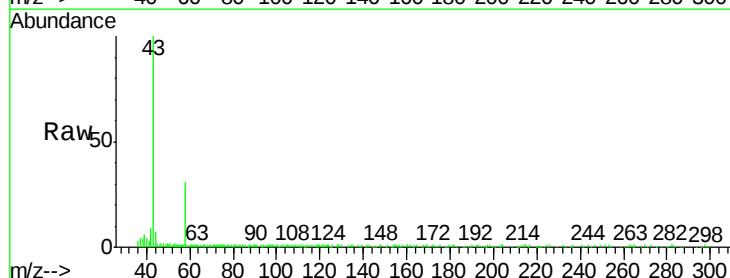
Acq: 28 Dec 2019 03:23

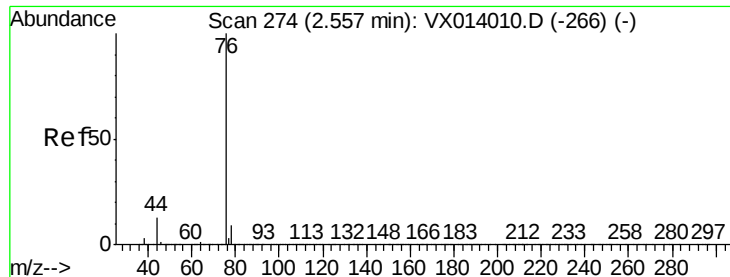
Tgt Ion: 43 Resp: 29292

Ion Ratio Lower Upper

43 100

58 30.8 24.9 37.3





#17

Carbon Disulfide

Concen: 0.933 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

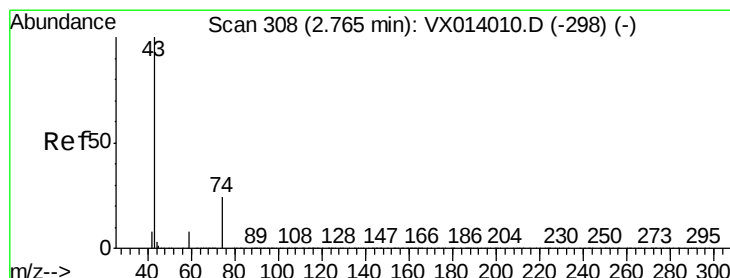
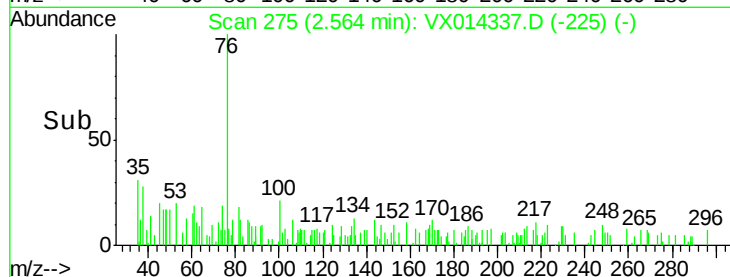
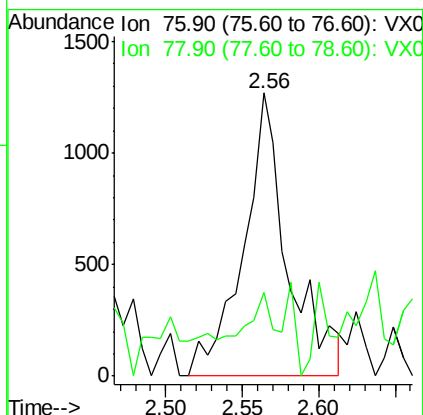
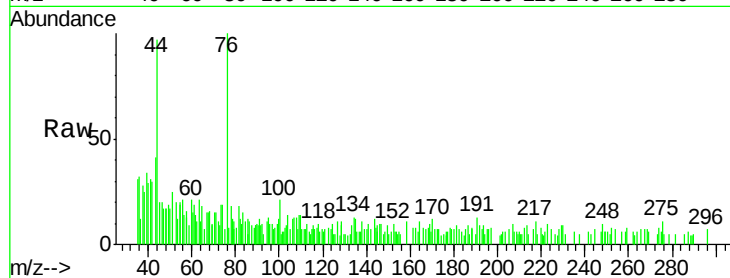
TR-05-122619

Tgt Ion: 76 Resp: 2574

Ion Ratio Lower Upper

76 100

78 15.7 7.2 10.8#



#18

Methyl Acetate

Concen: 0.752 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014337.D

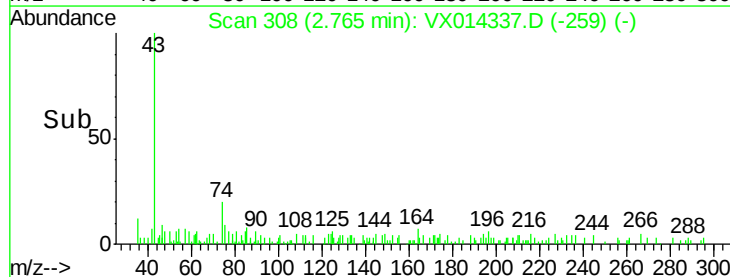
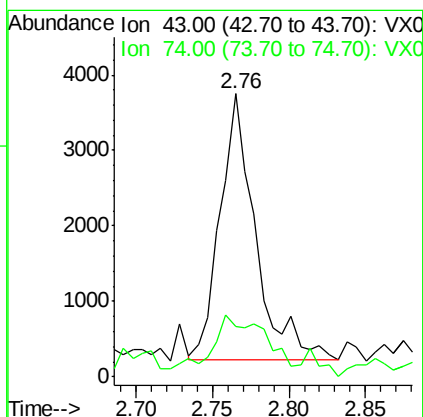
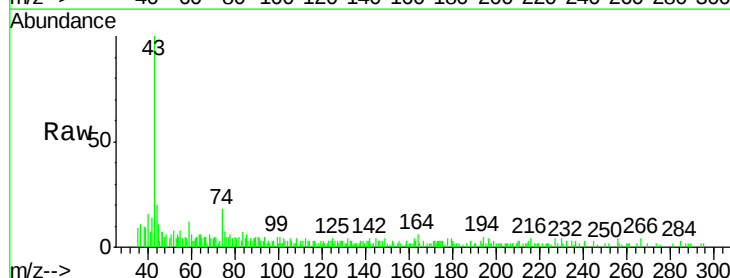
Acq: 28 Dec 2019 03:23

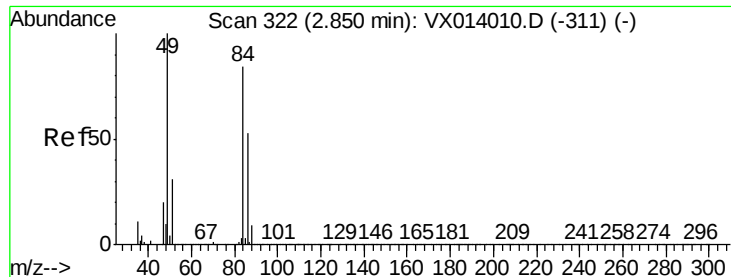
Tgt Ion: 43 Resp: 5689

Ion Ratio Lower Upper

43 100

74 28.3 19.5 29.3

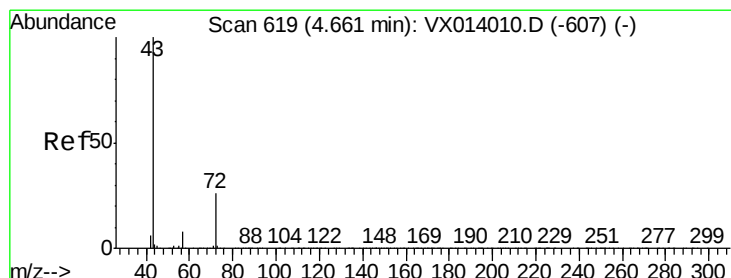
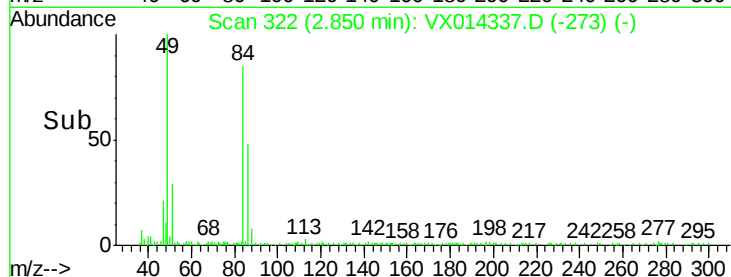
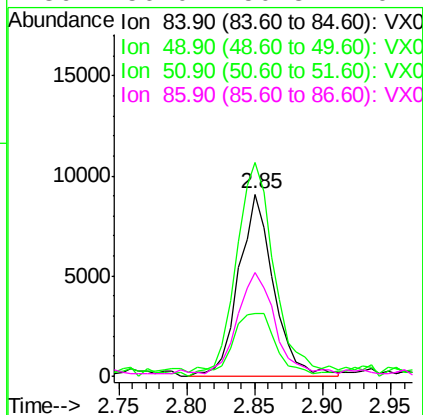
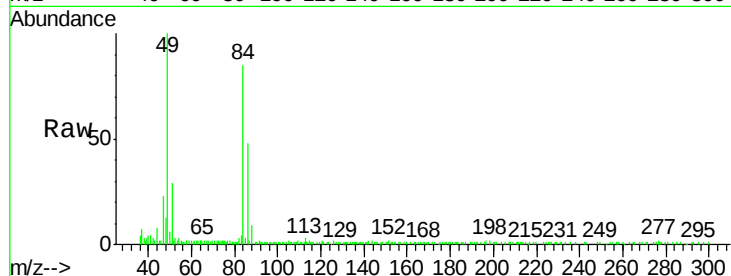




#20
Methylene Chloride
Concen: 2.702 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

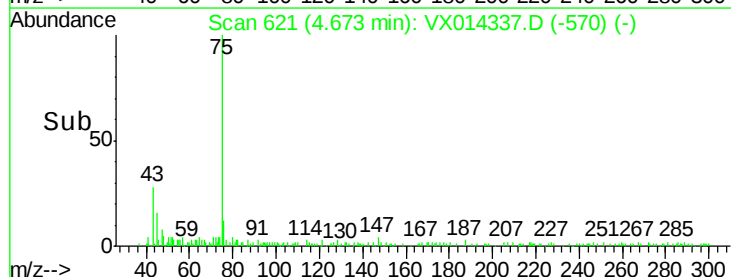
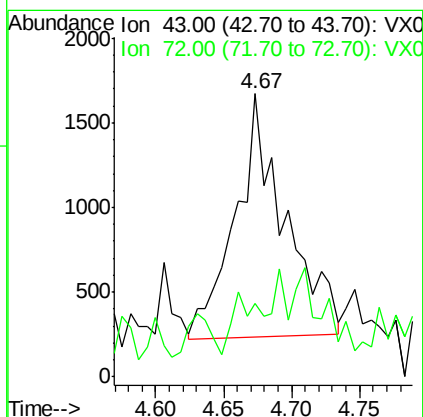
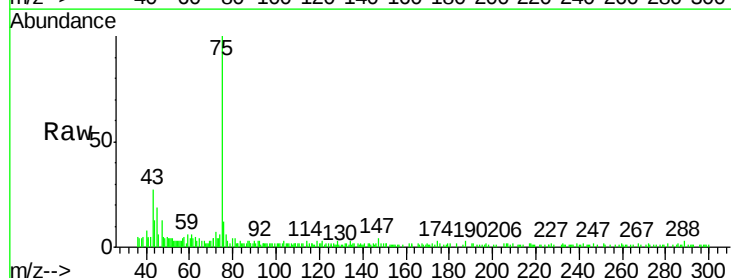
Instrument :
MSVOA_X
ClientSampleId :
TR-05-122619

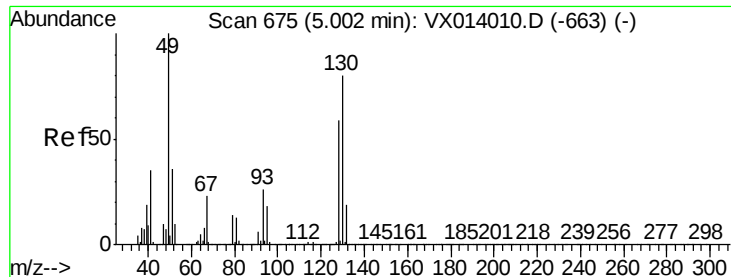
Tgt Ion:	84	Resp:	16250
Ion	Ratio	Lower	Upper
84	100		
49	119.2	95.8	143.6
51	32.8	29.8	44.8
86	56.0	50.8	76.2



#25
2-Butanone
Concen: 0.775 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Tgt Ion:	43	Resp:	3651
Ion	Ratio	Lower	Upper
43	100		
72	16.3	21.0	31.4#





#28

Bromochloromethane

Concen: 0.580 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampled :

TR-05-122619

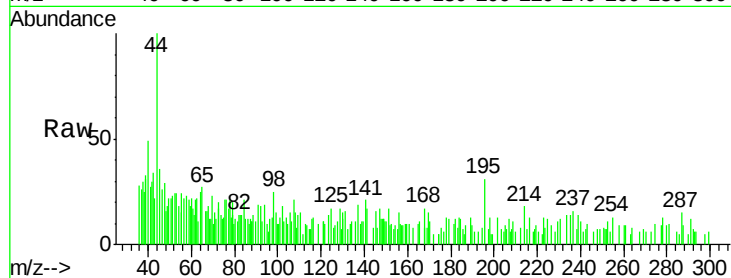
Tgt Ion: 49 Resp: 486

Ion Ratio Lower Upper

49 100

129 27.8 0.0 5.0#

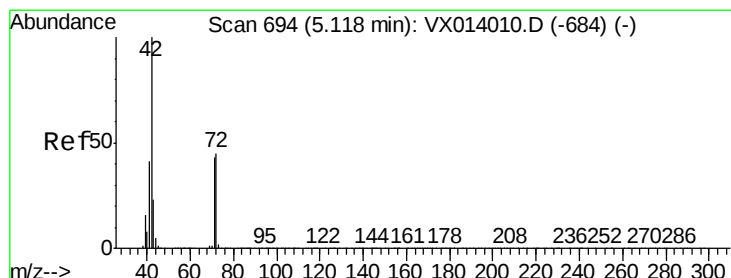
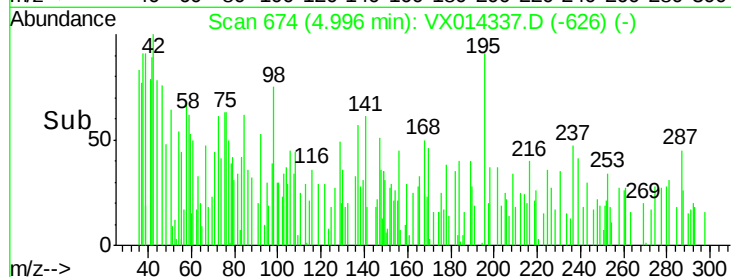
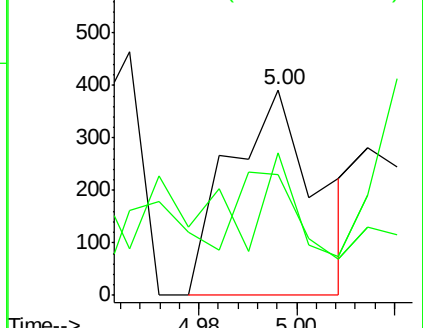
130 0.0 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.422 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

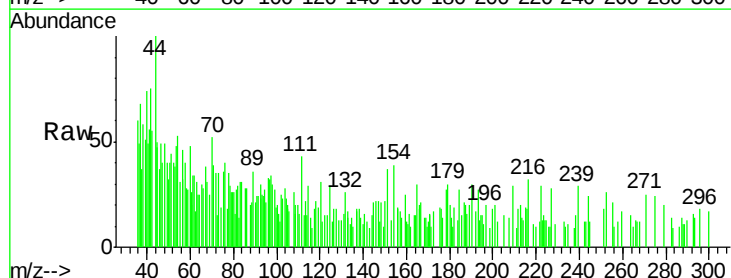
Tgt Ion: 42 Resp: 1112

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.8#

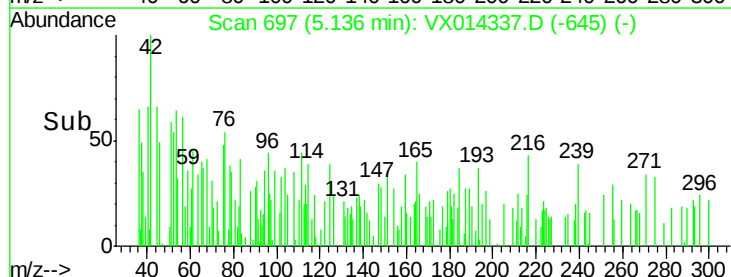
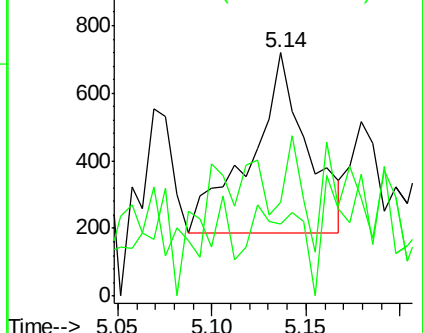
71 38.5 33.6 50.4

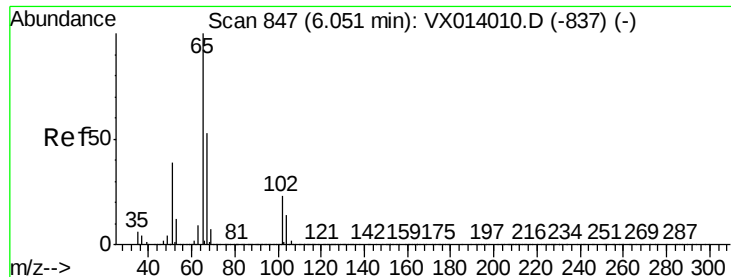


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.116 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

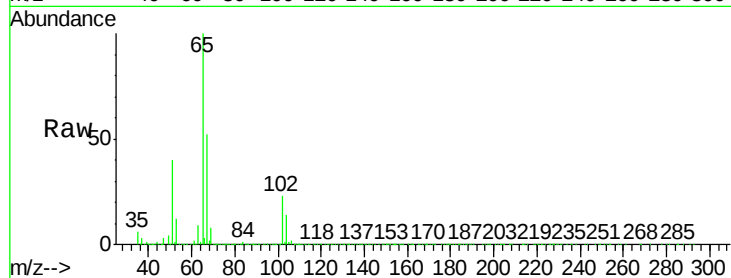
TR-05-122619

Tgt Ion: 65 Resp: 288945

Ion Ratio Lower Upper

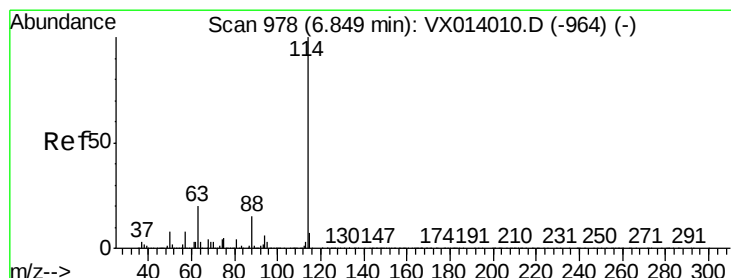
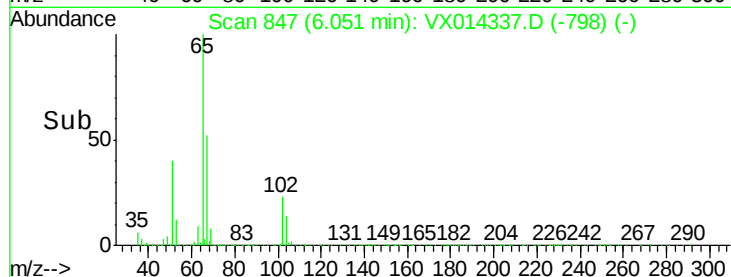
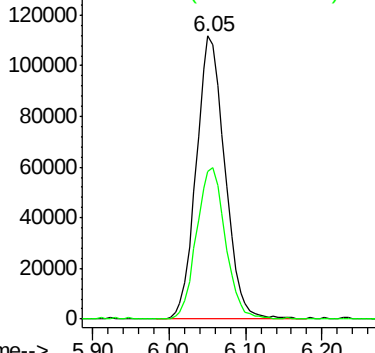
65 100

67 53.8 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

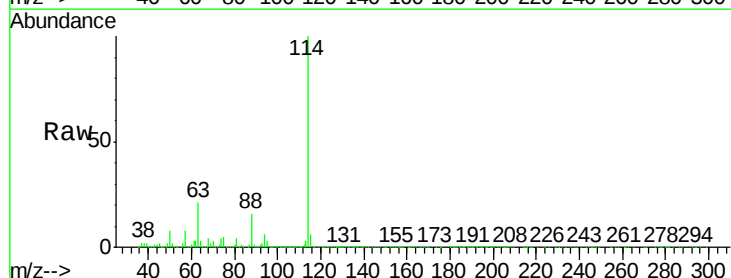
Tgt Ion: 114 Resp: 809348

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

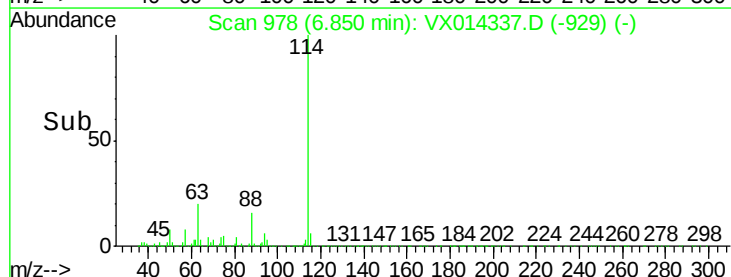
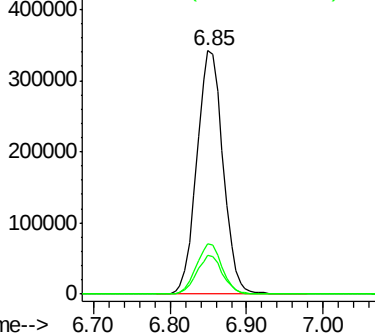
88 15.6 0.0 30.4

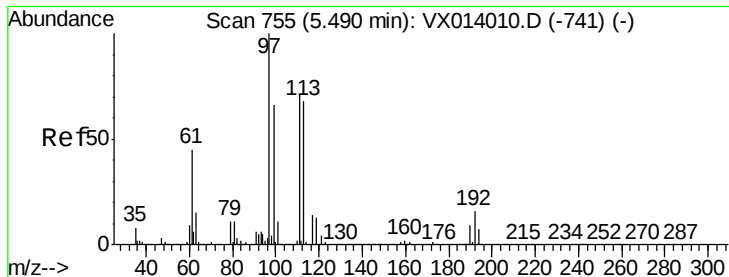


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.025 ug/l

RT: 5.49 min Scan# 755

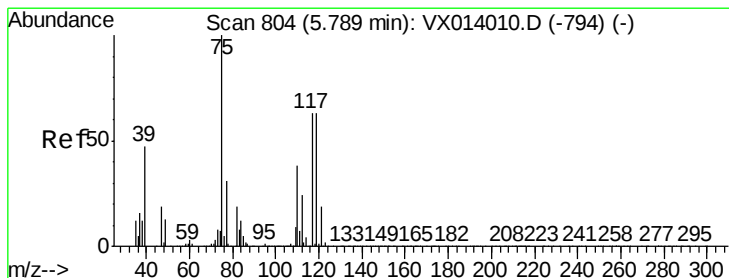
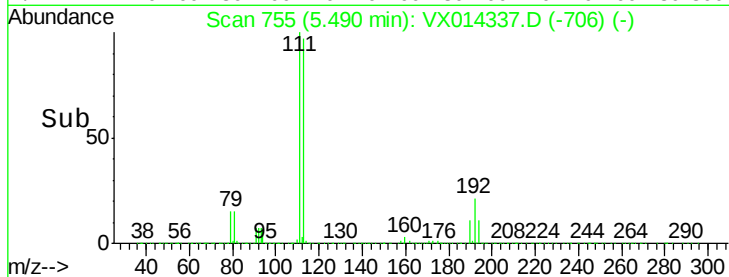
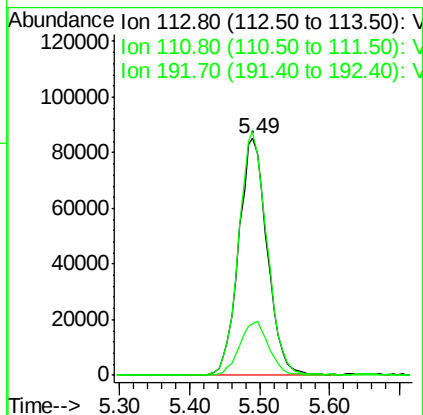
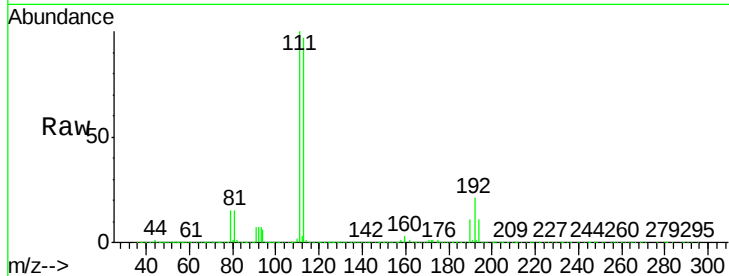
Delta R.T. 0.00 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :
MSVOA_X
ClientSampleId :
TR-05-122619

Tgt Ion:	113	Resp:	241198
Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.0	123.0
192	23.0	19.3	28.9



#36

1,1-Dichloropropene

Concen: 4.650 ug/l

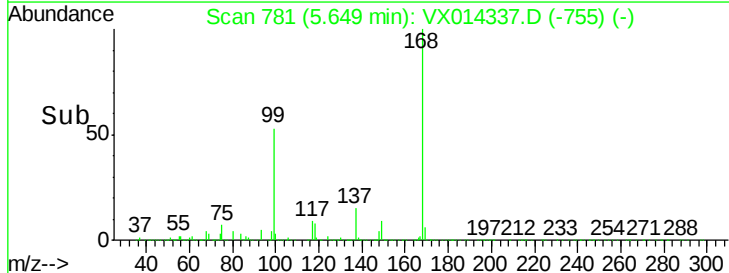
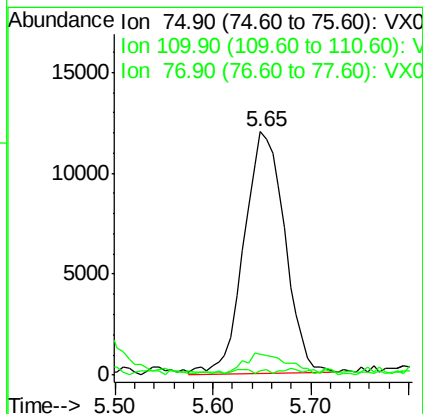
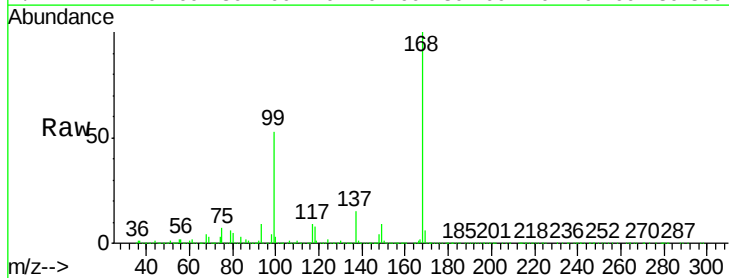
RT: 5.65 min Scan# 781

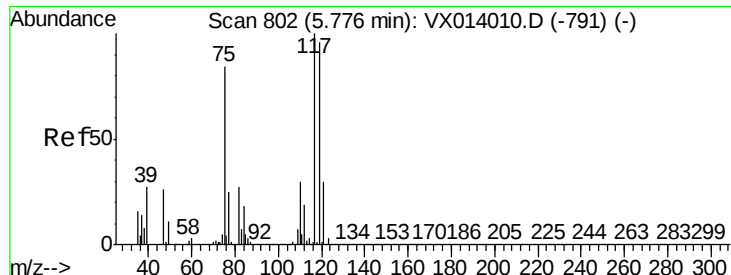
Delta R.T. -0.14 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Tgt Ion:	75	Resp:	34529
Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.3	54.9#
77	0.4	24.8	37.2#

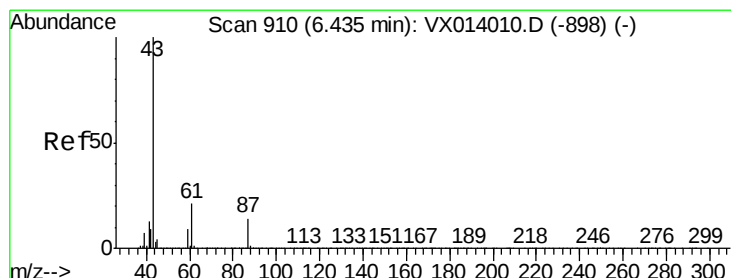
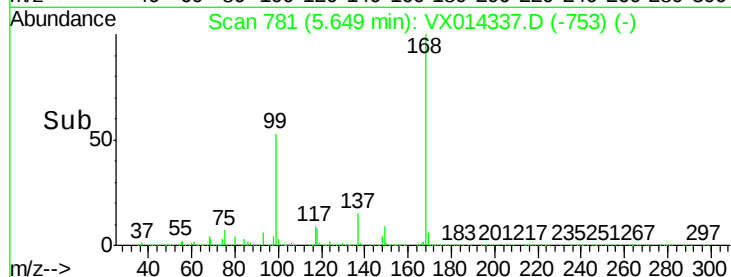
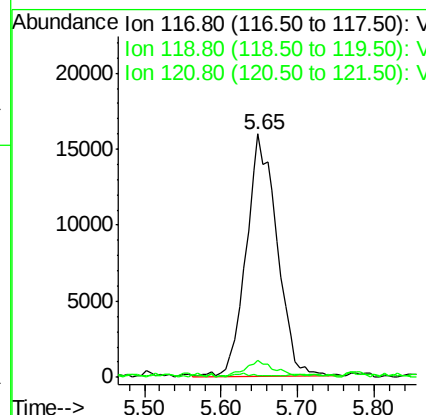
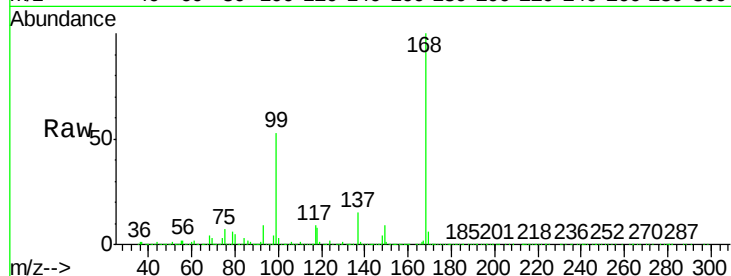




#38
Carbon Tetrachloride
Concen: 6.626 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

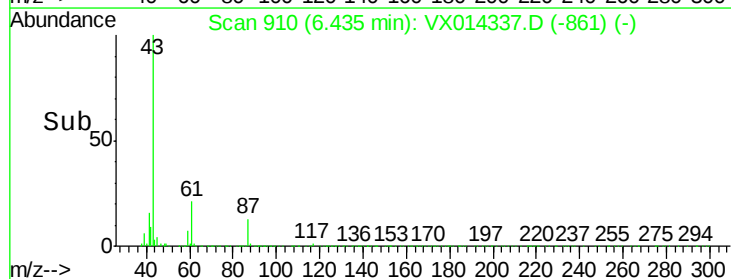
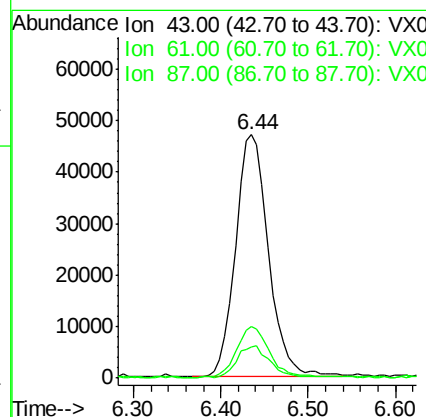
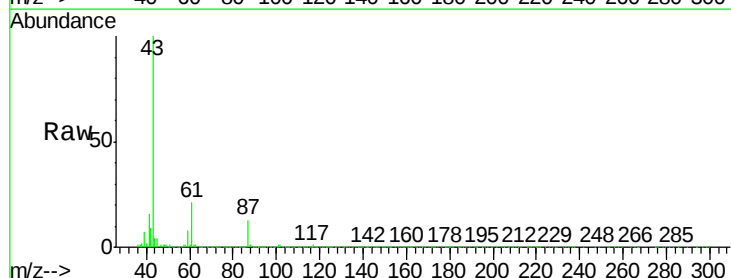
Instrument :
MSVOA_X
ClientSampleId :
TR-05-122619

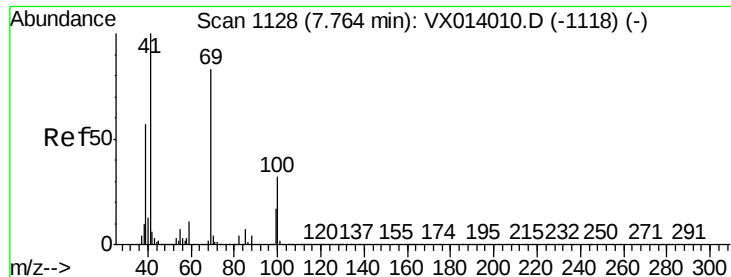
Tgt Ion: 117 Resp: 44824
Ion Ratio Lower Upper
117 100
119 6.3 76.2 114.4#
121 1.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 9.053 ug/l
RT: 6.44 min Scan# 910
Delta R.T. 0.00 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Tgt Ion: 43 Resp: 122865
Ion Ratio Lower Upper
43 100
61 21.8 16.4 24.6
87 13.5 10.7 16.1

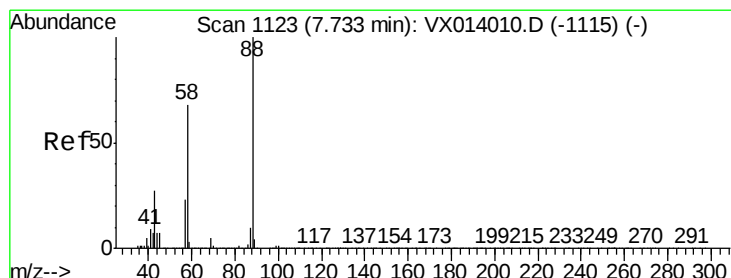
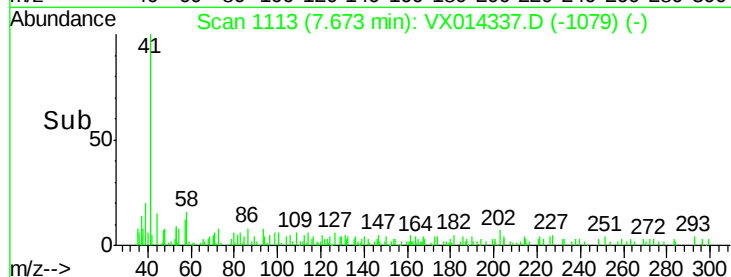
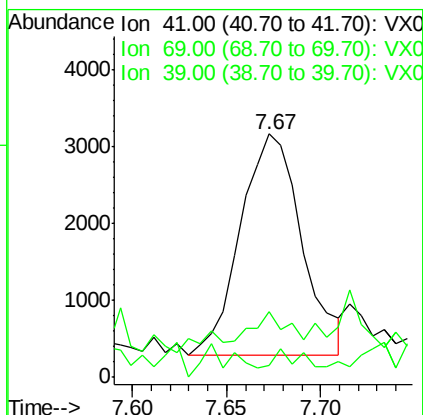
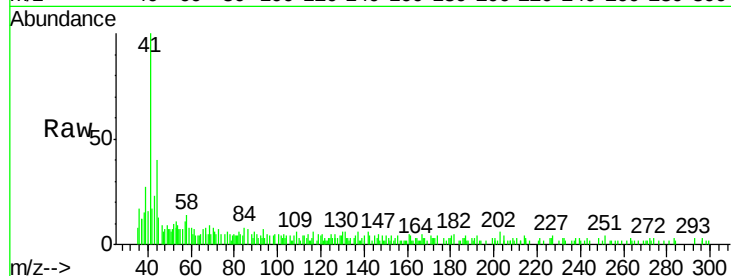




#48
Methyl methacrylate
Concen: 0.977 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

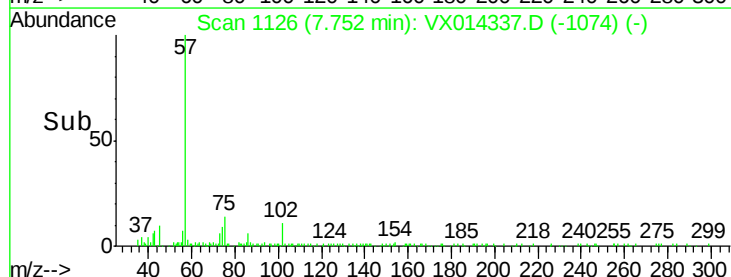
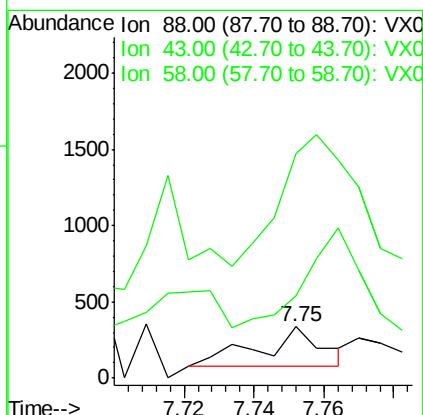
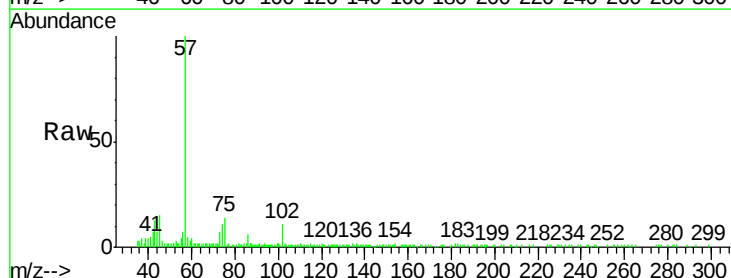
Instrument :
MSVOA_X
ClientSampleId :
TR-05-122619

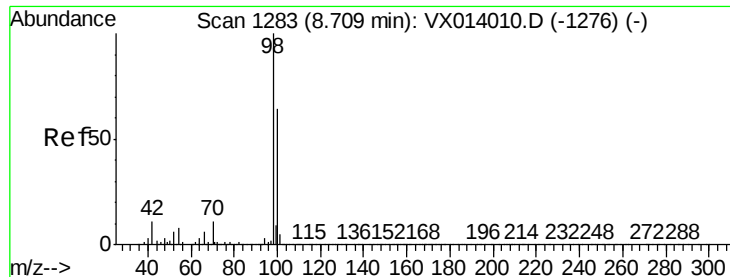
Tgt Ion: 41 Resp: 6493
Ion Ratio Lower Upper
41 100
69 3.1 65.8 98.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.277 ug/l
RT: 7.75 min Scan# 1126
Delta R.T. 0.02 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Tgt Ion: 88 Resp: 308
Ion Ratio Lower Upper
88 100
43 0.0 26.5 39.7#
58 294.2 56.8 85.2#





#50

Toluene-d8

Concen: 50.850 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

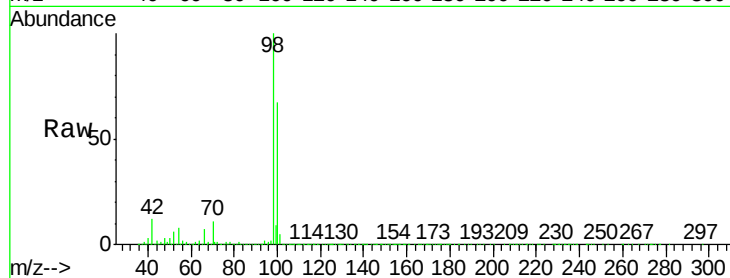
TR-05-122619

Tgt Ion: 98 Resp: 974004

Ion Ratio Lower Upper

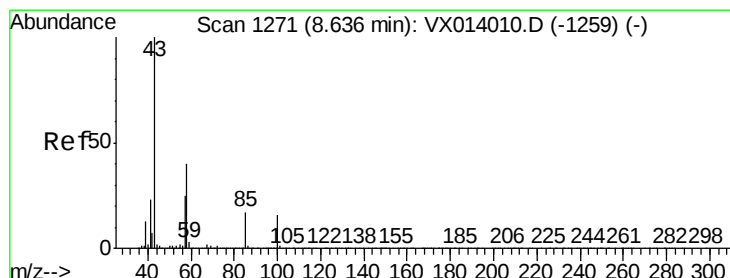
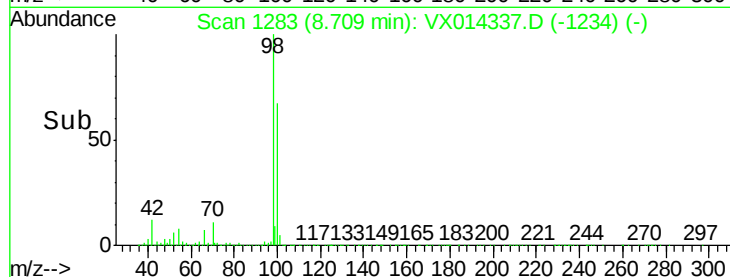
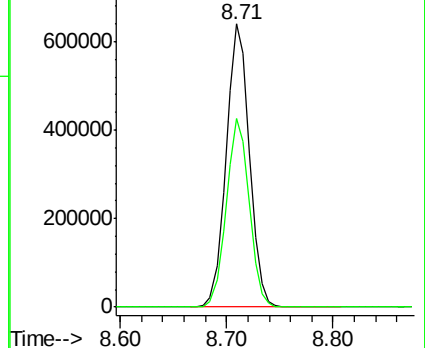
98 100

100 65.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 13.591 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014337.D

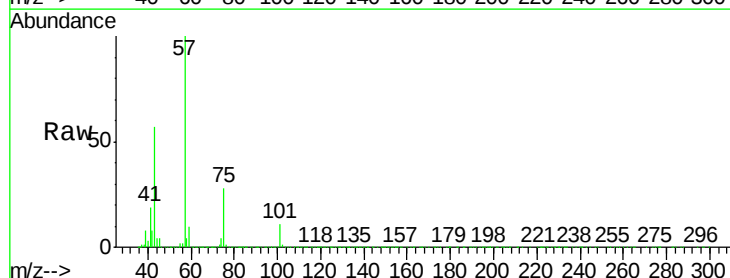
Acq: 28 Dec 2019 03:23

Tgt Ion: 43 Resp: 115836

Ion Ratio Lower Upper

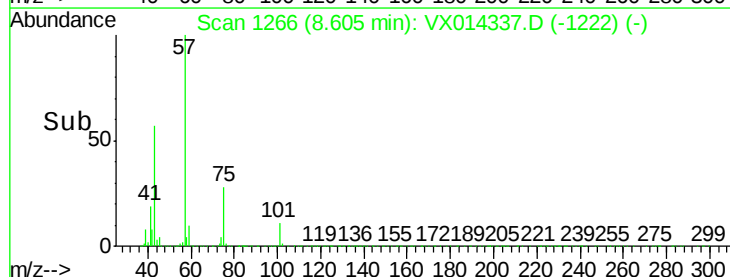
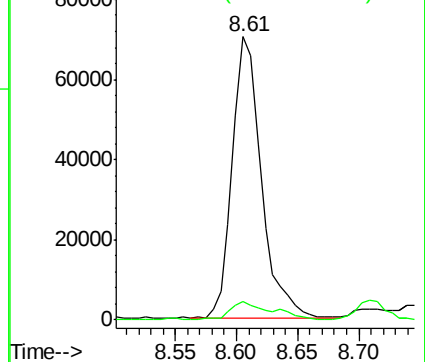
43 100

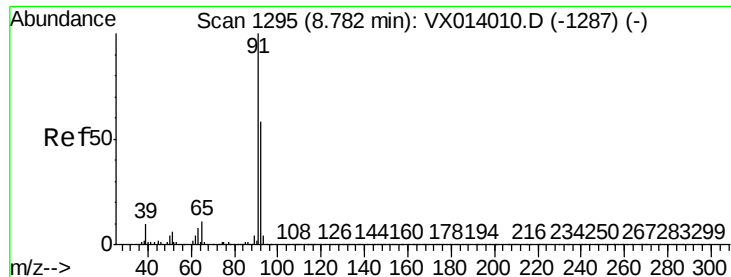
58 8.8 32.2 48.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 0.468 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

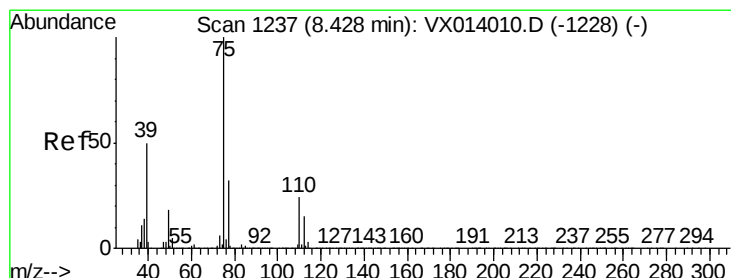
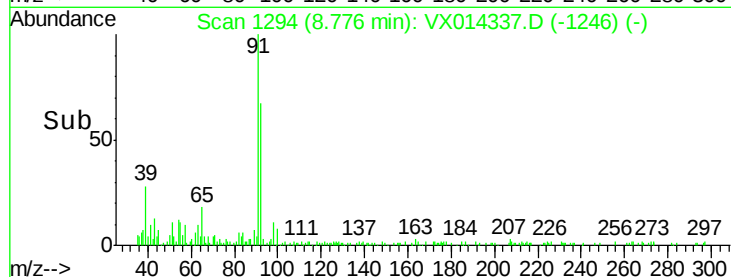
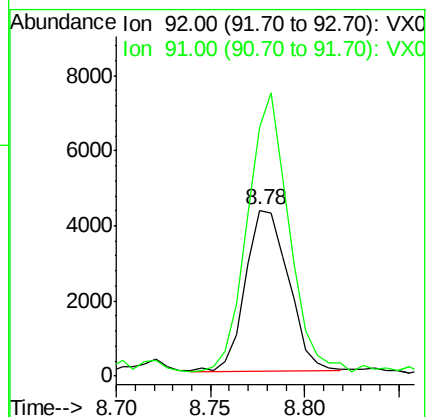
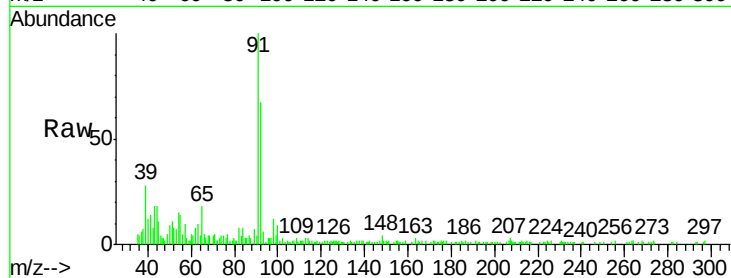
TR-05-122619

Tgt Ion: 92 Resp: 6756

Ion Ratio Lower Upper

92 100

91 168.3 136.2 204.4



#54

cis-1,3-Dichloropropene

Concen: 5.901 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

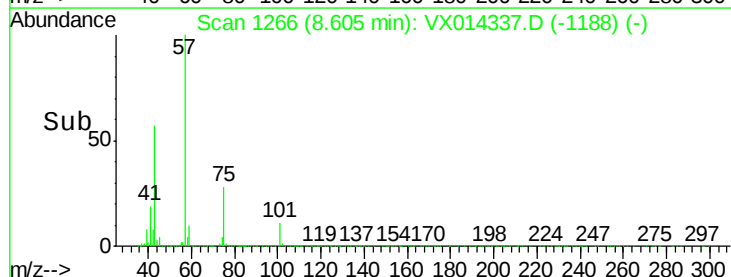
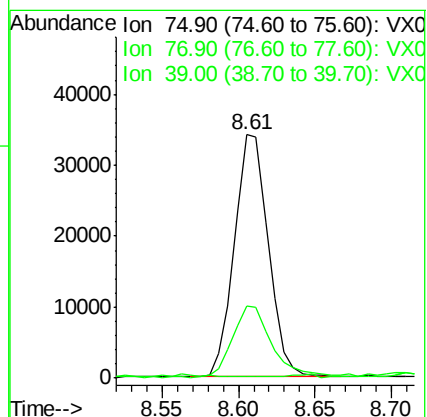
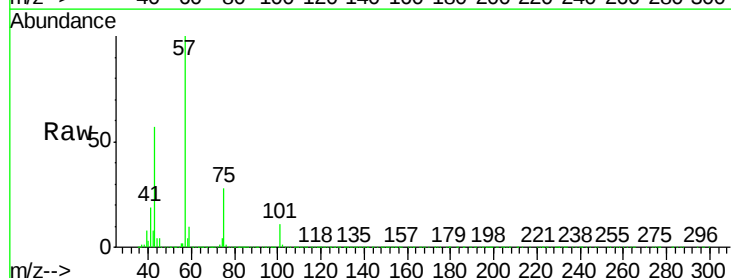
Tgt Ion: 75 Resp: 52567

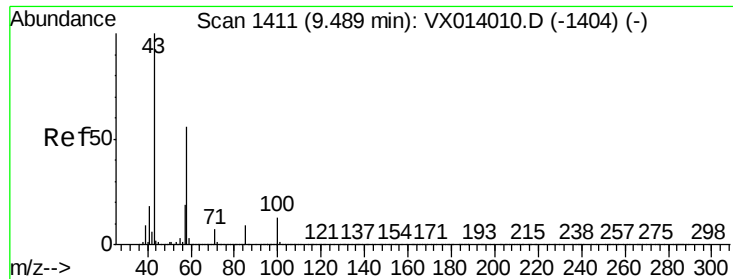
Ion Ratio Lower Upper

75 100

77 0.6 25.3 37.9#

39 28.5 39.9 59.9#

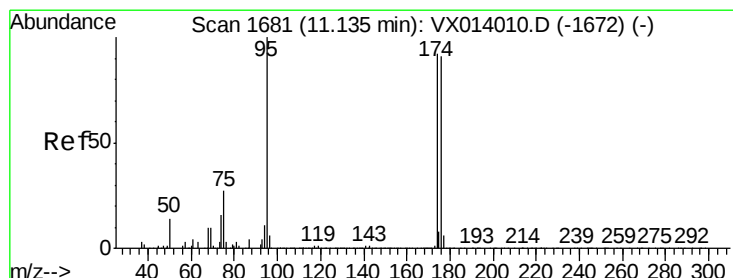
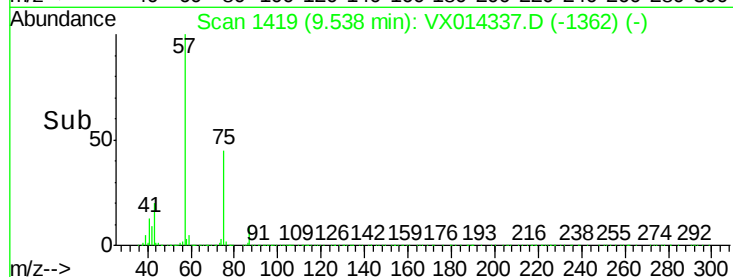
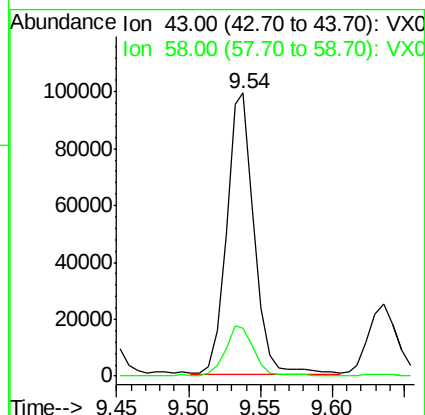
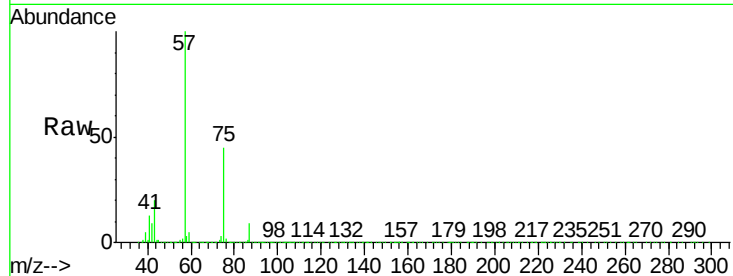




#59
2-Hexanone
Concen: 19.431 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

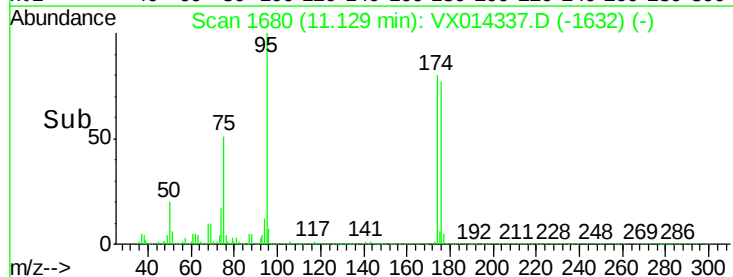
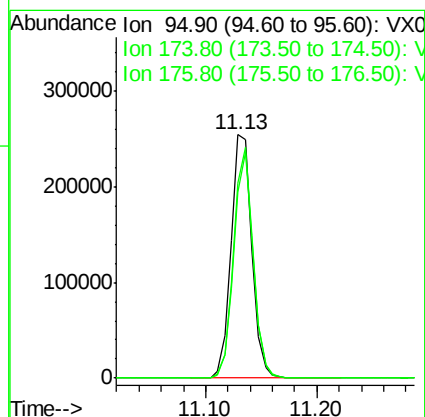
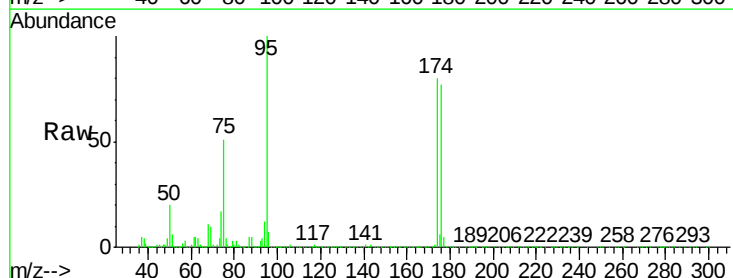
Instrument :
MSVOA_X
ClientSampled :
TR-05-122619

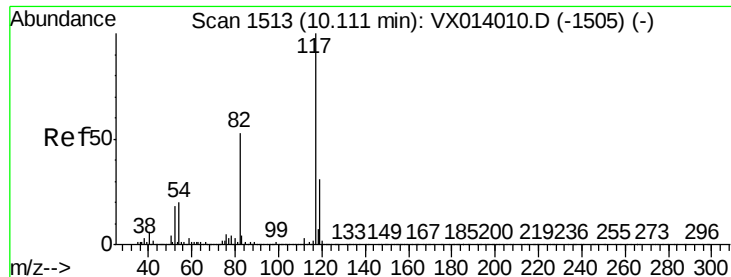
Tgt Ion: 43 Resp: 133318
Ion Ratio Lower Upper
43 100
58 18.3 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 46.892 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Tgt Ion: 95 Resp: 328327
Ion Ratio Lower Upper
95 100
174 89.3 0.0 175.8
176 86.5 0.0 173.0

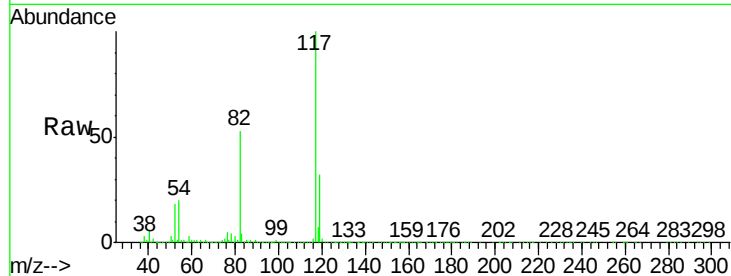




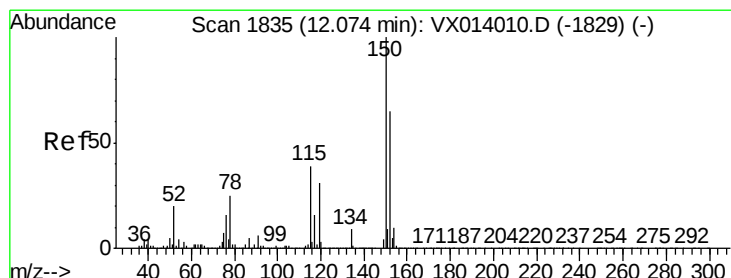
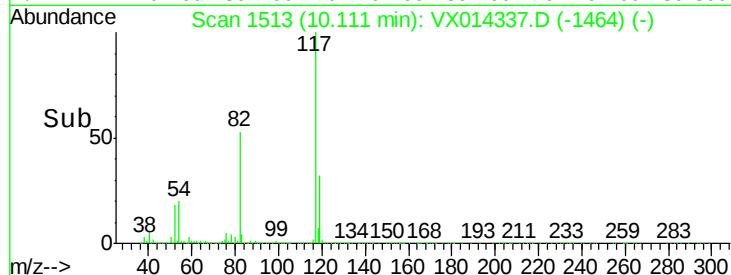
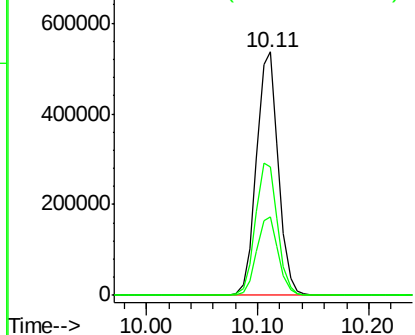
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Instrument :
MSVOA_X
ClientSampleId :
TR-05-122619

Tgt Ion:117 Resp: 733748
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.4
119 32.1 25.1 37.7

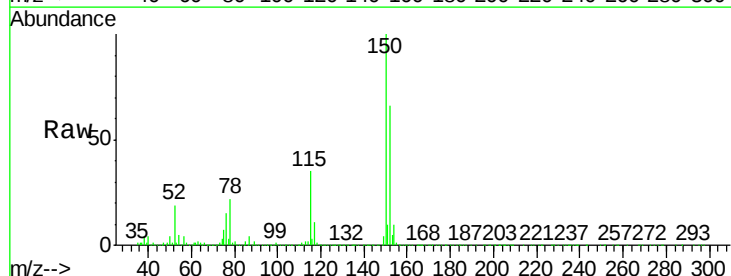


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

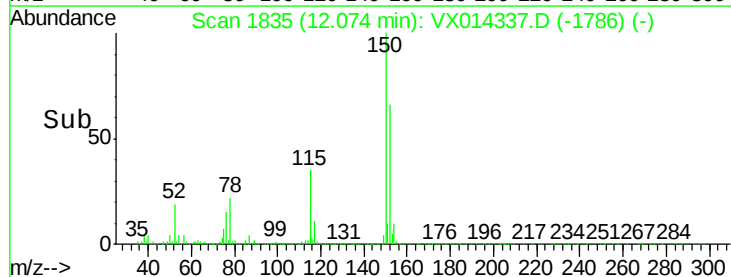
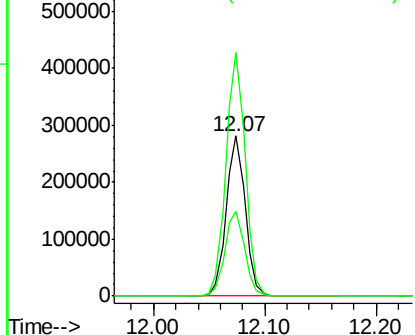


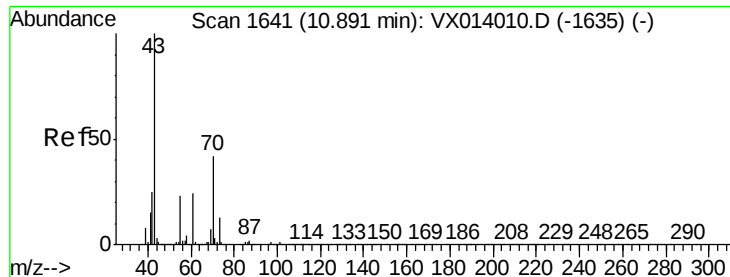
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Tgt Ion:152 Resp: 332187
Ion Ratio Lower Upper
152 100
115 55.0 38.3 114.9
150 154.3 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-amyI acetate

Concen: 0.527 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014337.D

Acq: 28 Dec 2019 03:23

Instrument :

MSVOA_X

ClientSampleId :

TR-05-122619

Tgt Ion: 43 Resp: 5773

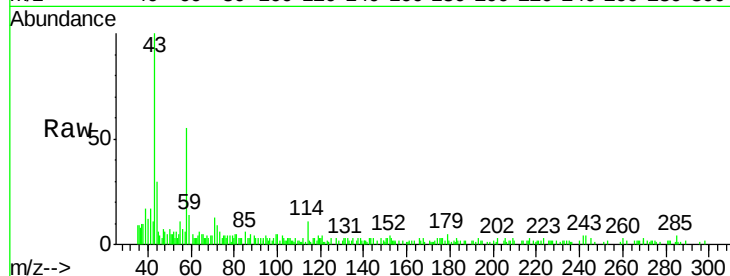
Ion Ratio Lower Upper

43 100

70 0.0 34.4 51.6#

55 25.2 19.1 28.7

61 0.0 19.7 29.5#

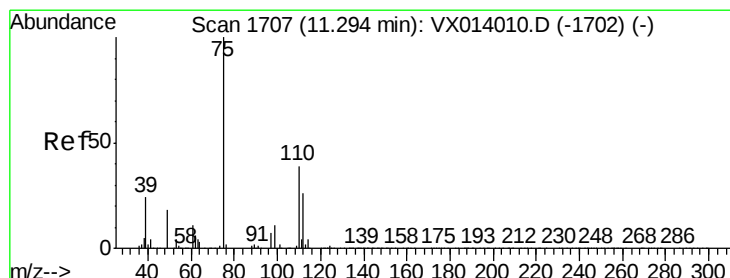
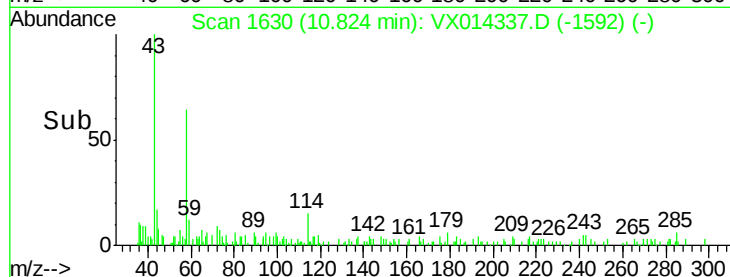
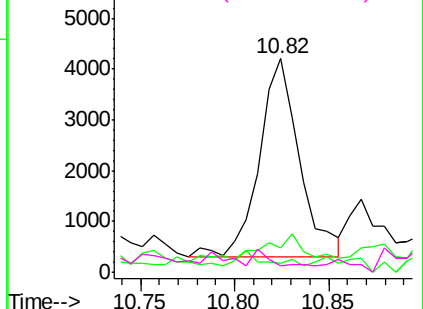


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.304 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014337.D

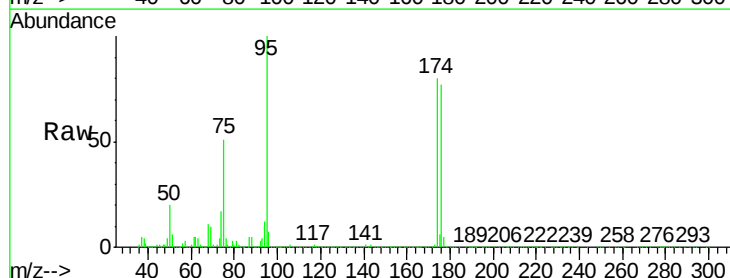
Acq: 28 Dec 2019 03:23

Tgt Ion: 75 Resp: 160848

Ion Ratio Lower Upper

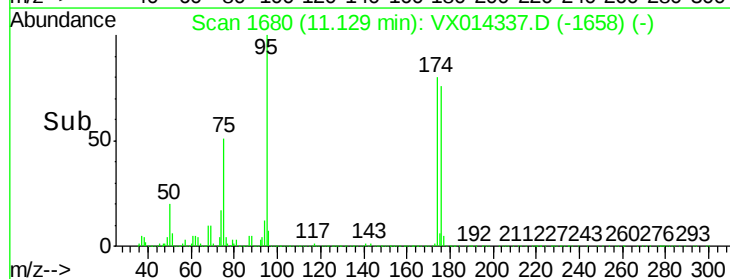
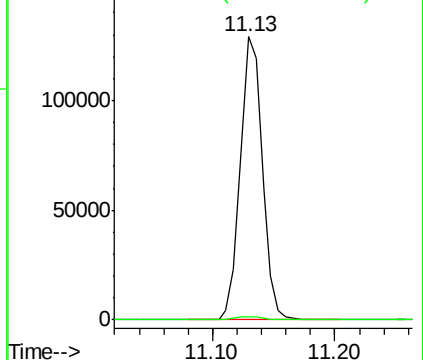
75 100

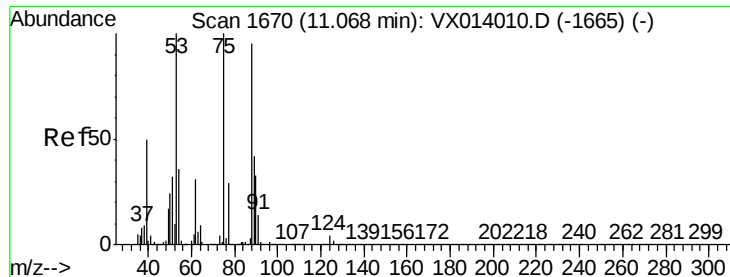
77 1.4 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

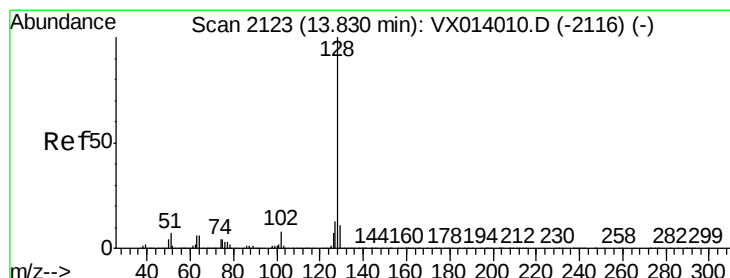
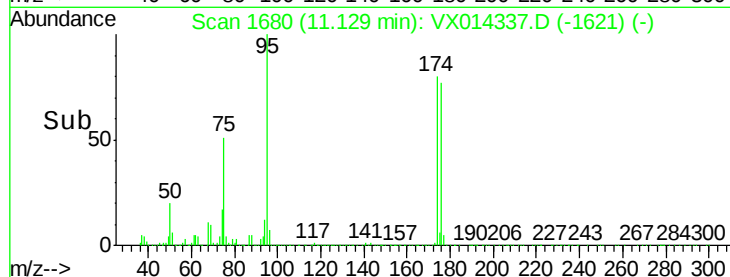
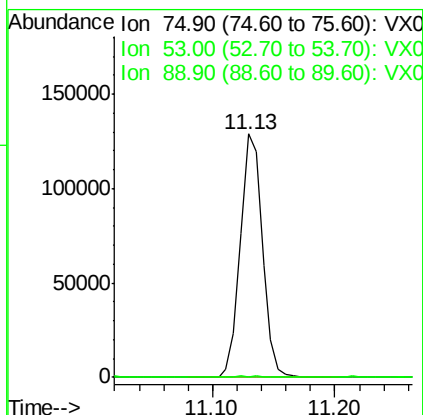
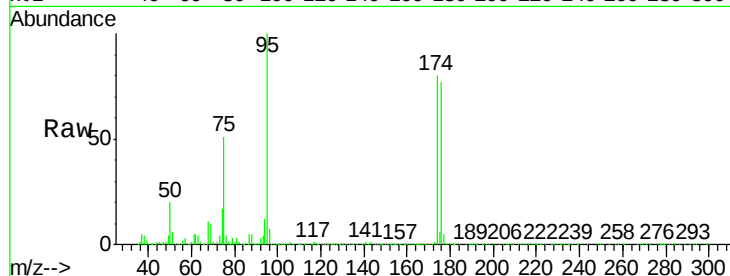




#81
trans-1,4-Dichloro-2-butene
Concen: 62.953 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Instrument :
MSVOA_X
ClientSampleId :
TR-05-122619

Tgt Ion: 75 Resp: 160848
Ion Ratio Lower Upper
75 100
53 0.5 76.7 115.1#
89 0.2 34.6 51.8#



#95
Naphthalene
Concen: 0.224 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014337.D
Acq: 28 Dec 2019 03:23

Tgt Ion: 128 Resp: 4867
Ion Ratio Lower Upper
128 100
127 27.3 10.2 15.4#
129 23.1 8.7 13.1#

