

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014335.D
 Acq On : 28 Dec 2019 02:36
 Operator : JC/SP
 Sample : K6431-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-(5-6)-TCLP

Quant Time: Dec 30 05:44:43 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	526711	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	822032	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	749017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	334615	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	294911	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
35) Dibromofluoromethane	5.49	113	245078	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.71	98	994173	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
62) 4-Bromofluorobenzene	11.13	95	335098	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	

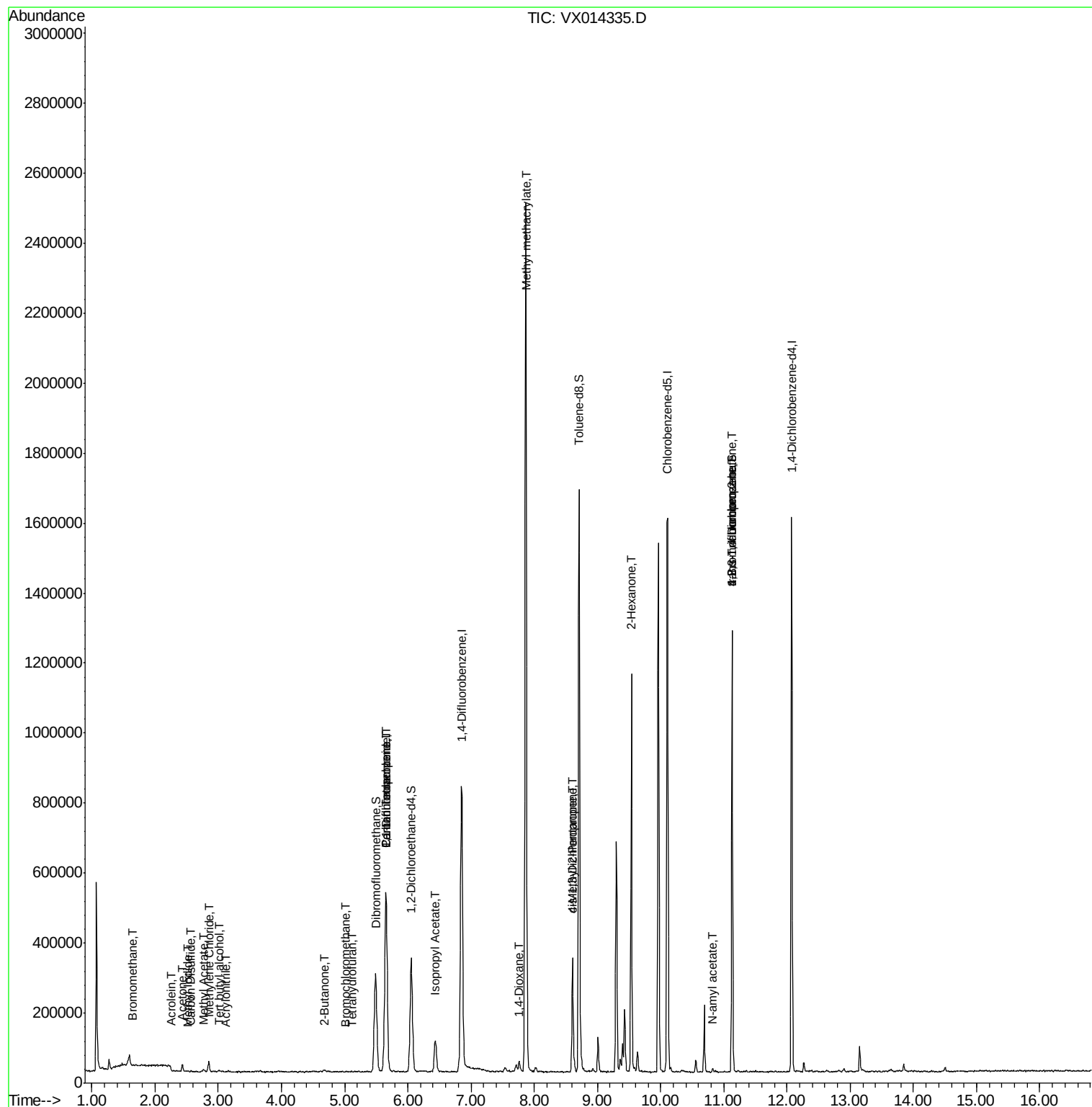
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1692	0.357	ug/l	90
10) Methyl Iodide	2.51	142	2131	2.928	ug/l #	86
11) Tert butyl alcohol	3.01	59	2767	2.145	ug/l	97
13) Acrolein	2.27	56	271	0.367	ug/l #	14
15) Acrylonitrile	3.12	53	610	0.203	ug/l #	69
16) Acetone	2.43	43	19285	4.976	ug/l	97
17) Carbon Disulfide	2.56	76	2463	0.923	ug/l #	79
18) Methyl Acetate	2.76	43	9333	1.215	ug/l	97
20) Methylene Chloride	2.85	84	13284	2.177	ug/l	94
25) 2-Butanone	4.69	43	4286	0.897	ug/l	91
28) Bromochloromethane	5.02	49	675	0.627	ug/l #	7
29) Tetrahydrofuran	5.11	42	1864	0.697	ug/l #	53
36) 1,1-Dichloropropene	5.65	75	35567	4.715	ug/l #	51
38) Carbon Tetrachloride	5.65	117	47390	6.897	ug/l #	17
43) Isopropyl Acetate	6.43	43	124181	9.009	ug/l	99
48) Methyl methacrylate	7.86	41	207668	30.766	ug/l #	42
49) 1,4-Dioxane	7.75	88	837	6.093	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	117064	13.523	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	53604	5.924	ug/l #	60
59) 2-Hexanone	9.54	43	130742	18.761	ug/l #	51
74) N-amyl acetate	10.82	43	5849	0.530	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	162783	22.408	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	162783	63.248	ug/l #	12

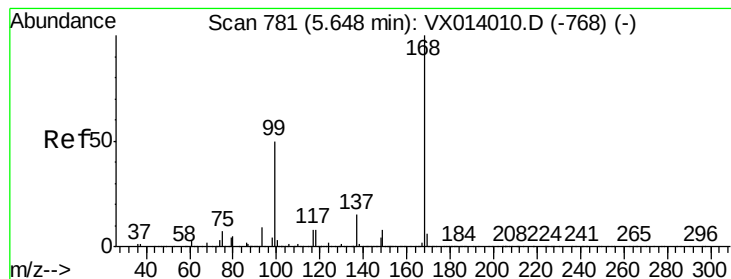
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

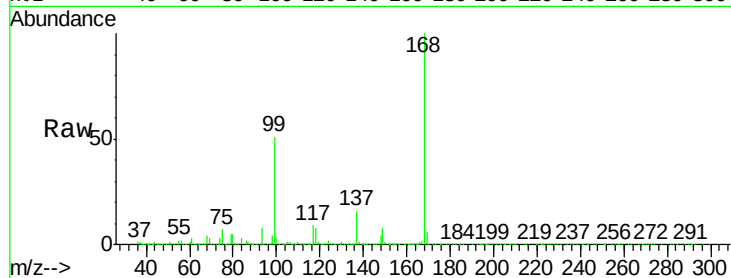
SB-4-(5-6)-TCLP

Tgt Ion: 168 Resp: 526711

Ion Ratio Lower Upper

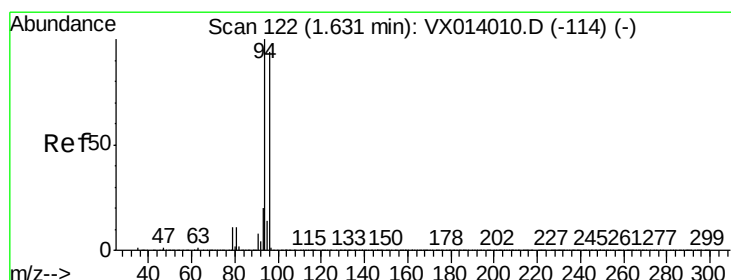
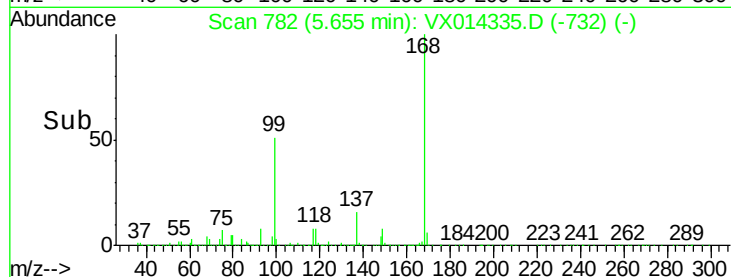
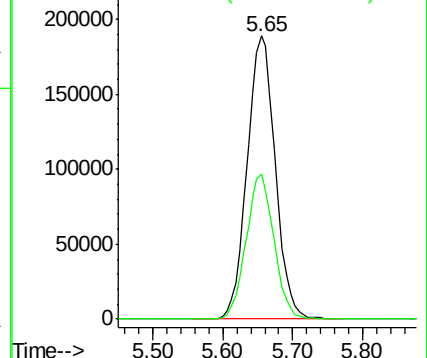
168 100

99 51.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.357 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014335.D

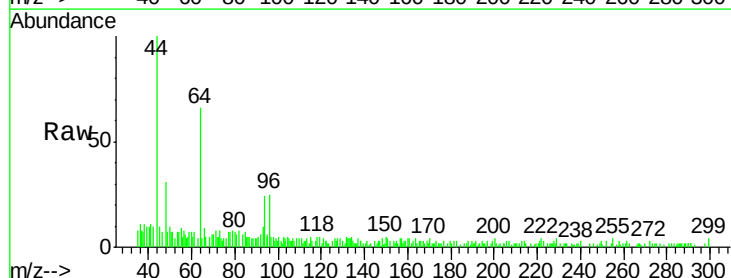
Acq: 28 Dec 2019 02:36

Tgt Ion: 94 Resp: 1692

Ion Ratio Lower Upper

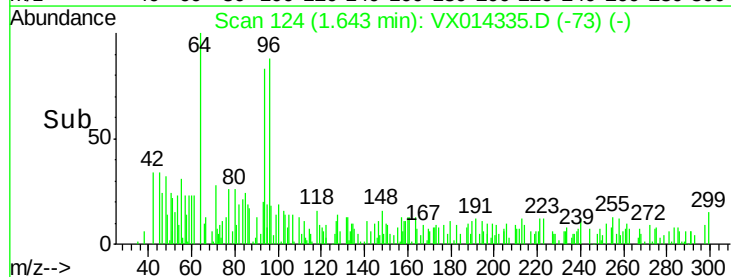
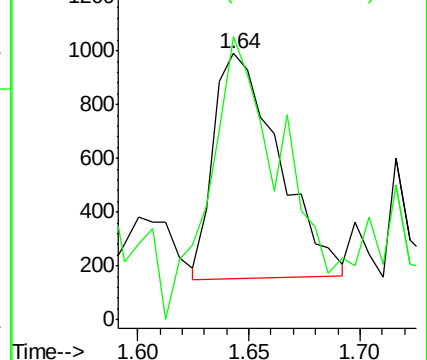
94 100

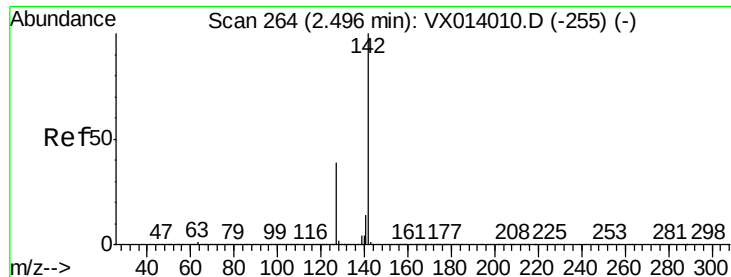
96 103.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

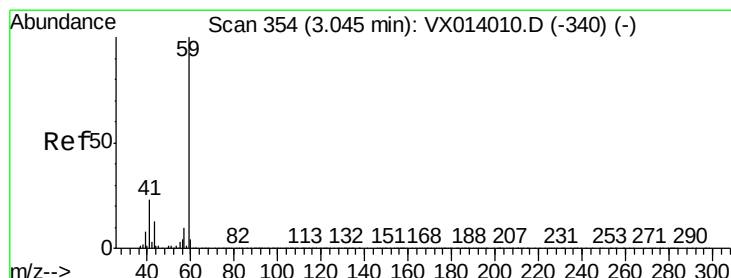
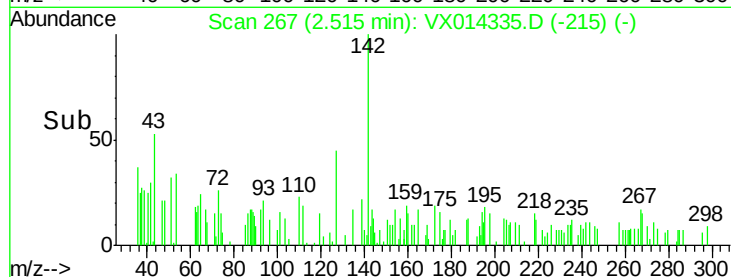
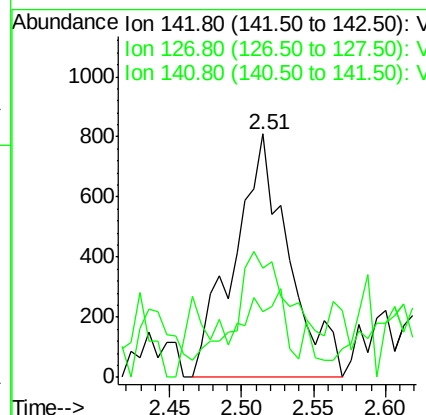
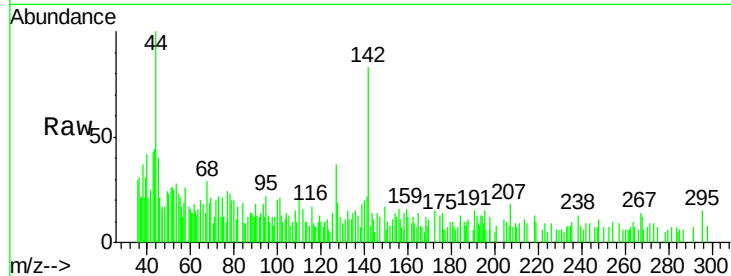




#10
Methyl Iodide
Concen: 2.928 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.02 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

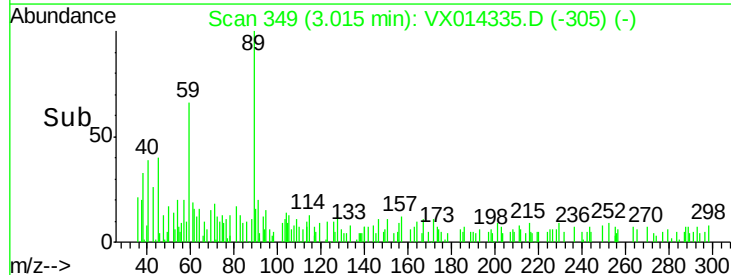
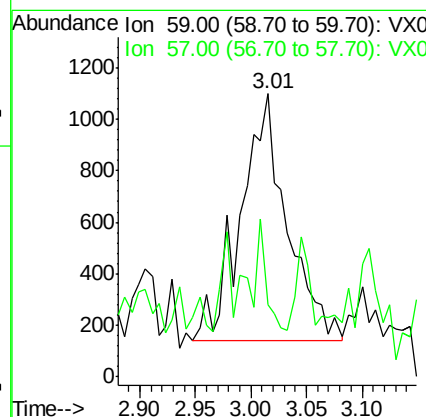
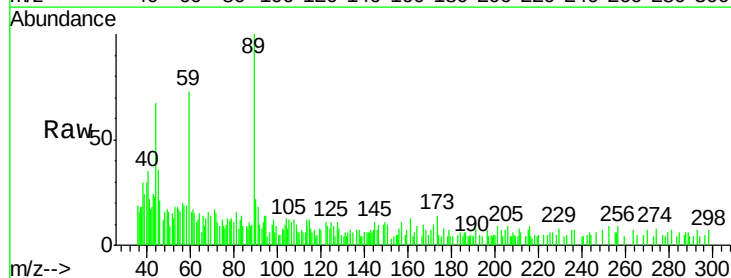
Instrument :
MSVOA_X
ClientSampled :
SB-4-(5-6)-TCLP

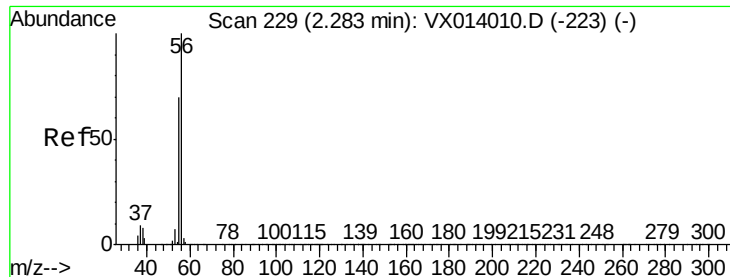
Tgt Ion: 142 Resp: 2131
Ion Ratio Lower Upper
142 100
127 47.1 31.6 47.4
141 22.1 11.6 17.4#



#11
Tert butyl alcohol
Concen: 2.145 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

Tgt Ion: 59 Resp: 2767
Ion Ratio Lower Upper
59 100
57 9.4 8.4 12.6





#13

Acrolein

Concen: 0.367 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampled :

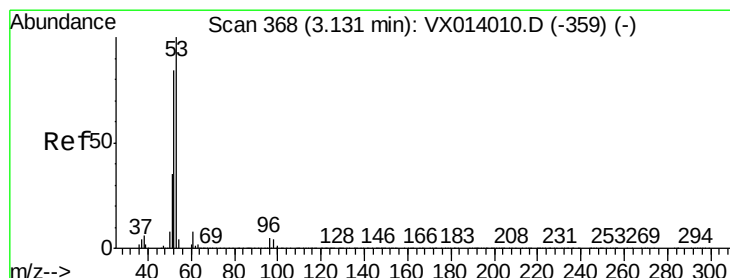
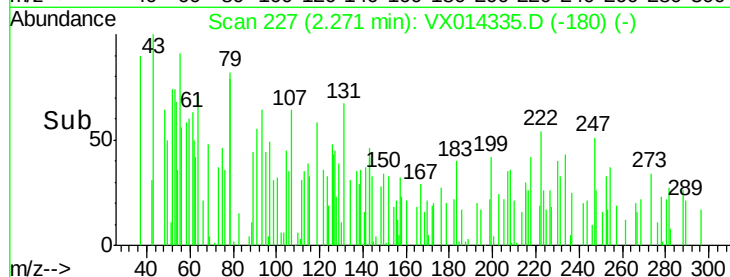
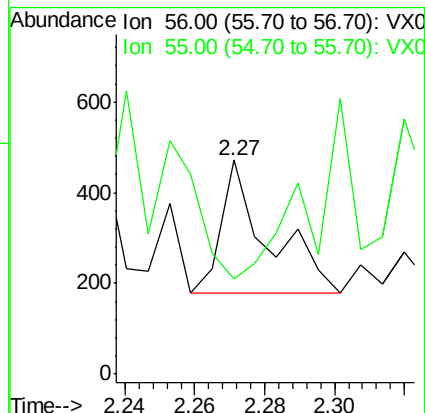
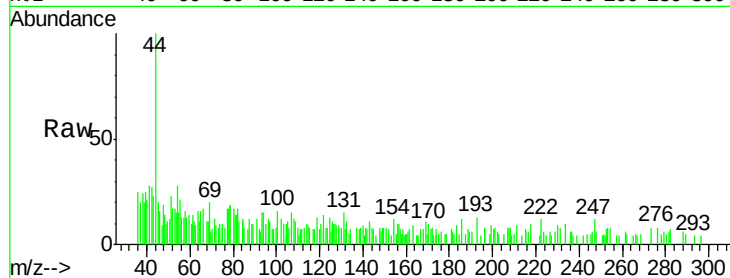
SB-4-(5-6)-TCLP

Tgt Ion: 56 Resp: 271

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#15

Acrylonitrile

Concen: 0.203 ug/l

RT: 3.12 min Scan# 366

Delta R.T. -0.01 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

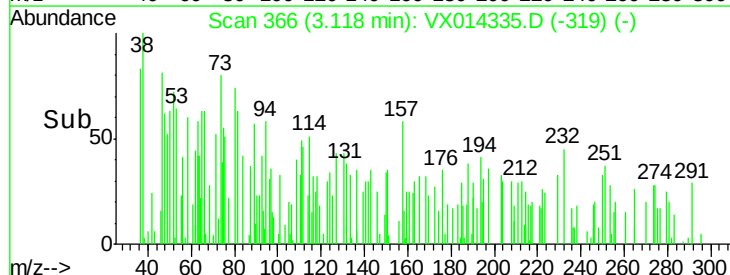
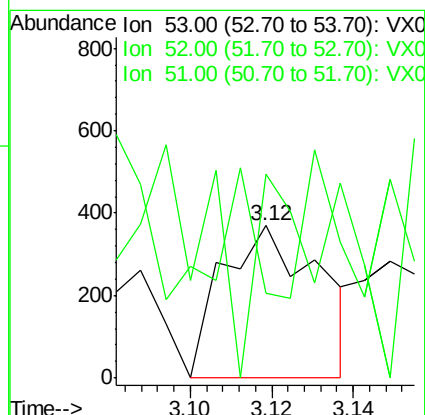
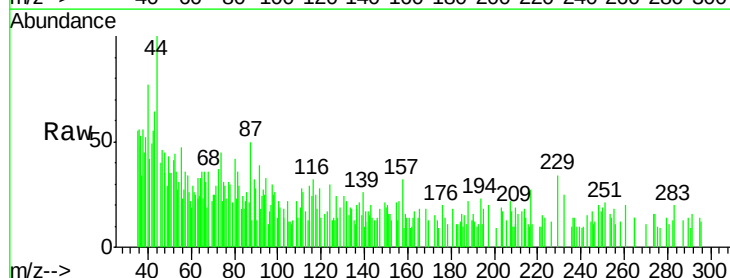
Tgt Ion: 53 Resp: 610

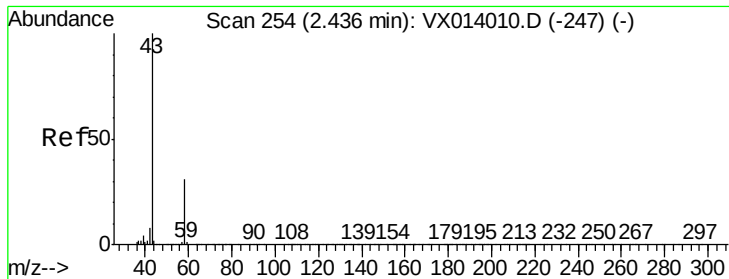
Ion Ratio Lower Upper

53 100

52 112.8 66.5 99.7#

51 19.7 28.1 42.1#





#16

Acetone

Concen: 4.976 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

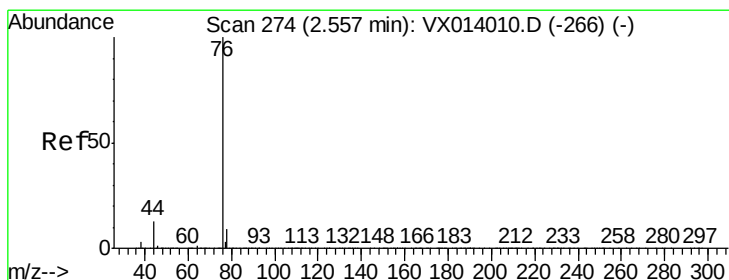
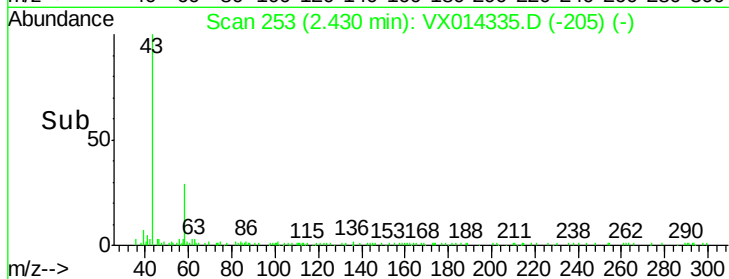
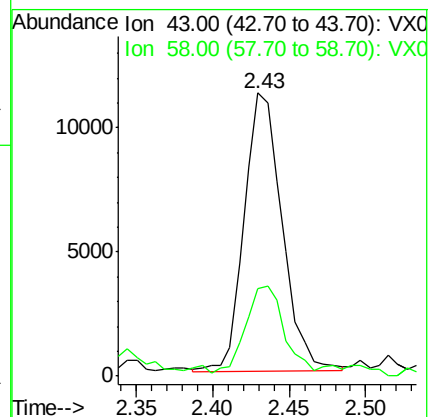
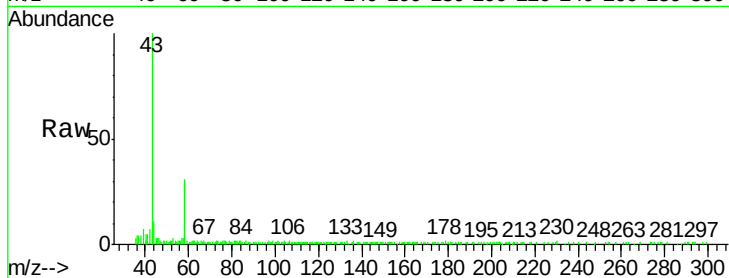
SB-4-(5-6)-TCLP

Tgt Ion: 43 Resp: 19285

Ion Ratio Lower Upper

43 100

58 29.3 24.9 37.3



#17

Carbon Disulfide

Concen: 0.923 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014335.D

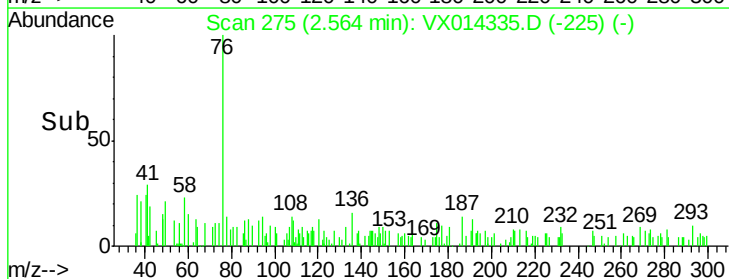
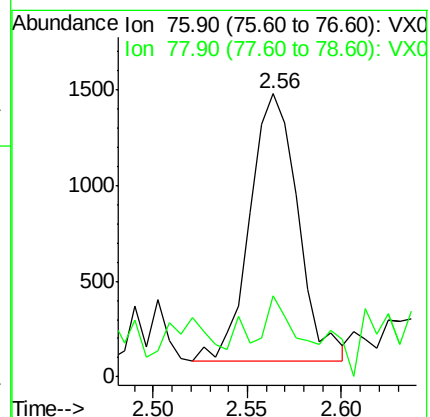
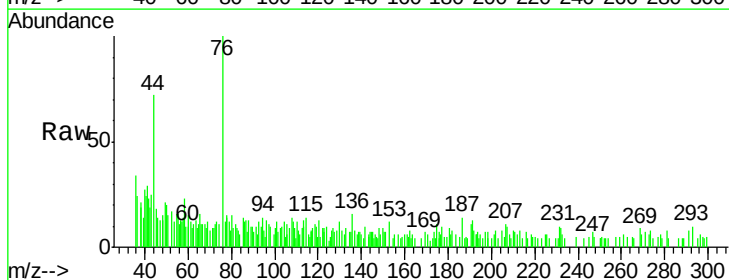
Acq: 28 Dec 2019 02:36

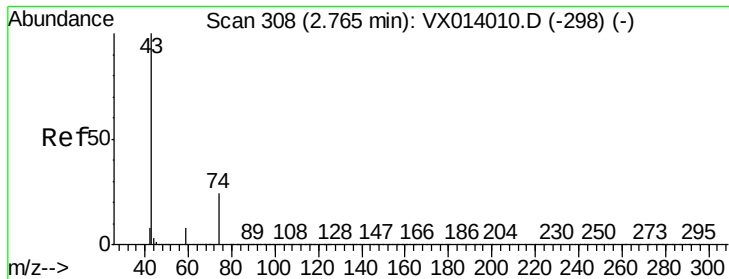
Tgt Ion: 76 Resp: 2463

Ion Ratio Lower Upper

76 100

78 16.7 7.2 10.8#

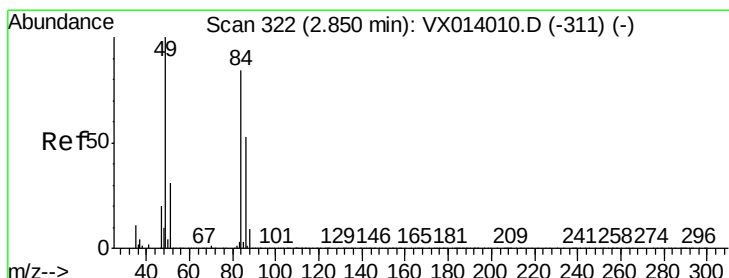
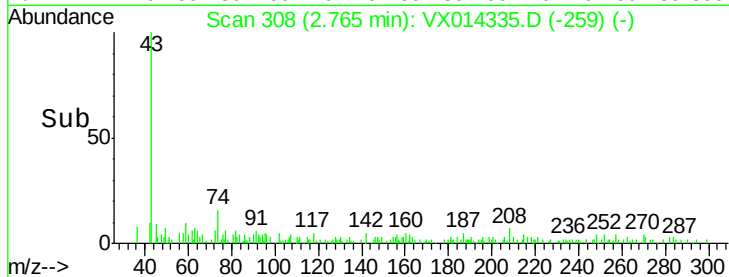
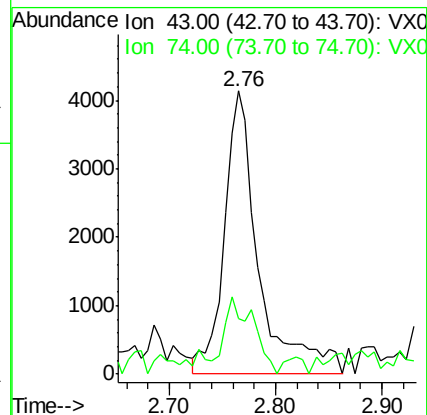
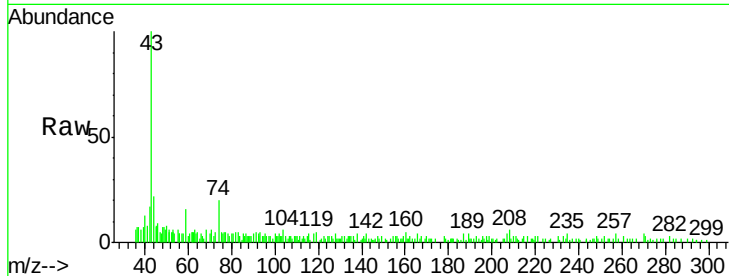




#18
Methyl Acetate
Concen: 1.215 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

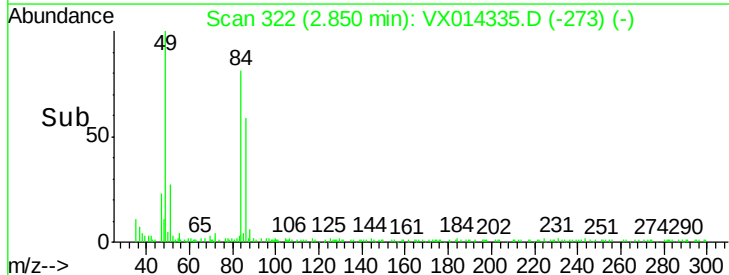
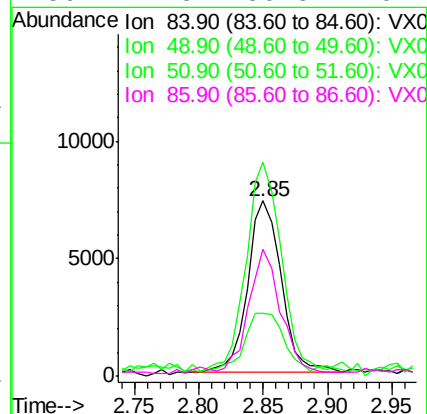
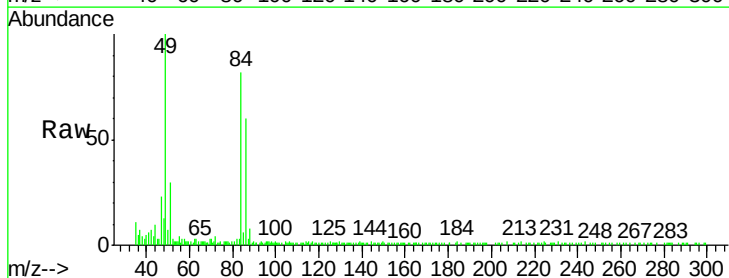
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MSVOA_X
ClientSampleId :
SB-4-(5-6)-TCLP

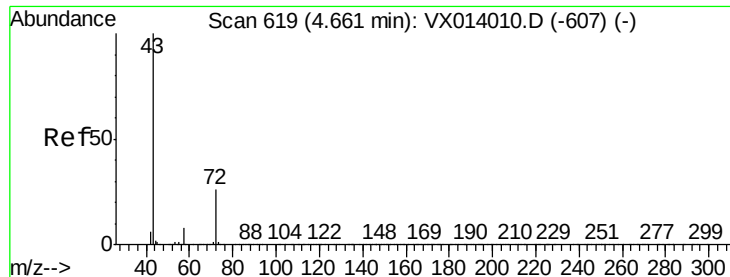
Tgt Ion: 43 Resp: 9333
Ion Ratio Lower Upper
43 100
74 22.8 19.5 29.3



#20
Methylene Chloride
Concen: 2.177 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

Tgt Ion: 84 Resp: 13284
Ion Ratio Lower Upper
84 100
49 120.8 95.8 143.6
51 30.4 29.8 44.8
86 72.3 50.8 76.2





#25

2-Butanone

Concen: 0.897 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampled :

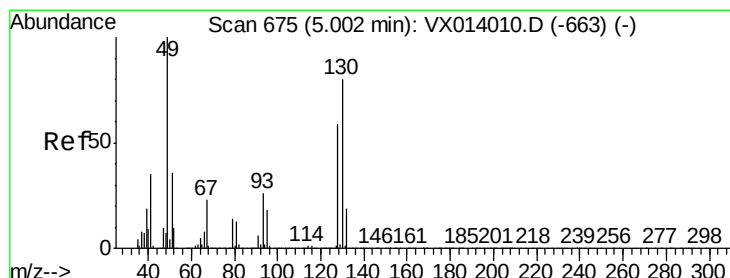
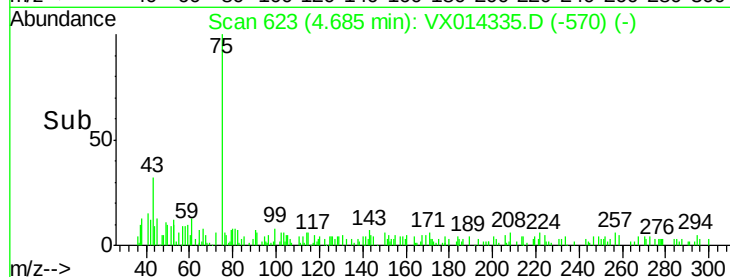
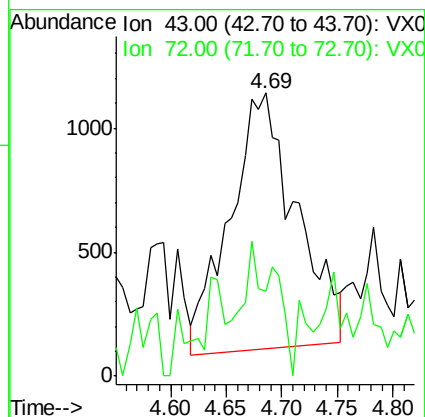
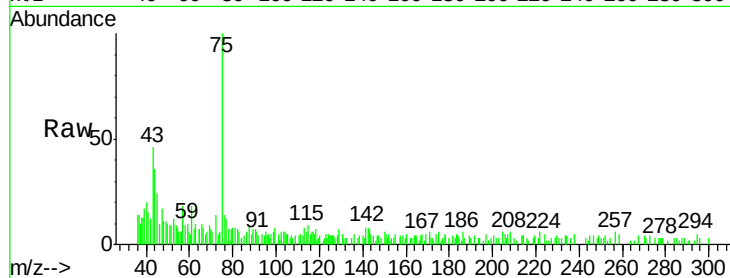
SB-4-(5-6)-TCLP

Tgt Ion: 43 Resp: 4286

Ion Ratio Lower Upper

43 100

72 21.6 21.0 31.4



#28

Bromochloromethane

Concen: 0.627 ug/l

RT: 5.02 min Scan# 678

Delta R.T. 0.02 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

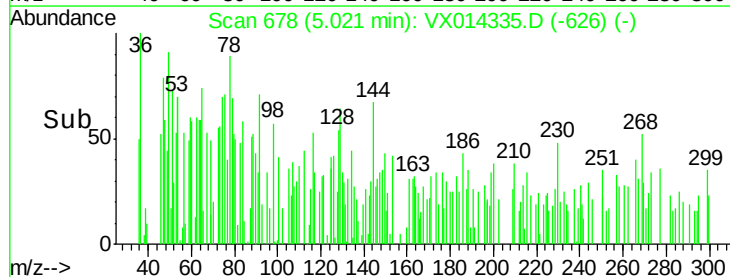
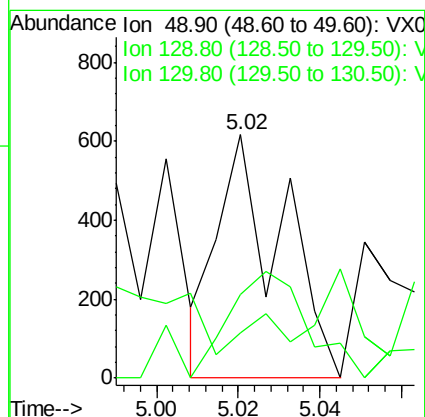
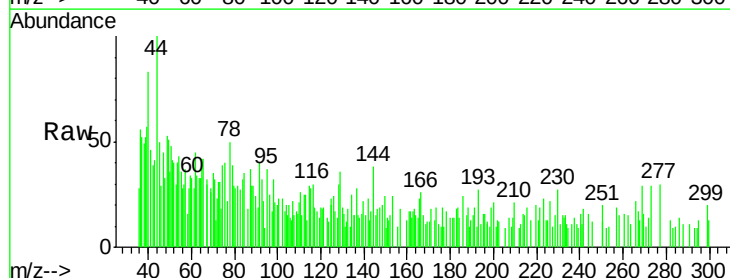
Tgt Ion: 49 Resp: 675

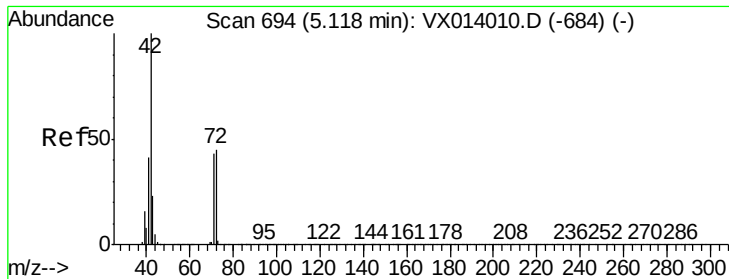
Ion Ratio Lower Upper

49 100

129 60.3 0.0 5.0#

130 0.0 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.697 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.01 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

SB-4-(5-6)-TCLP

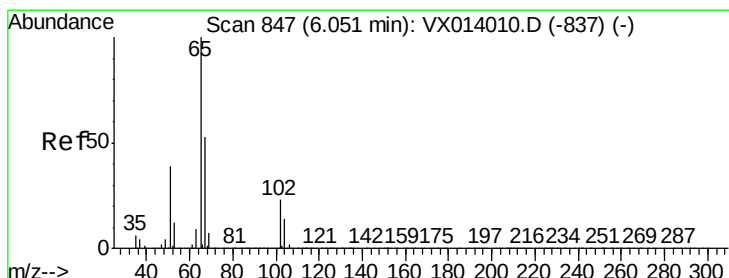
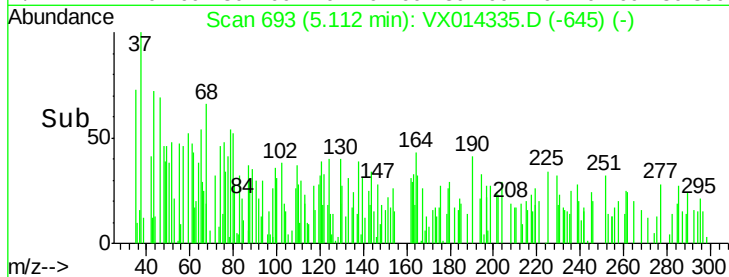
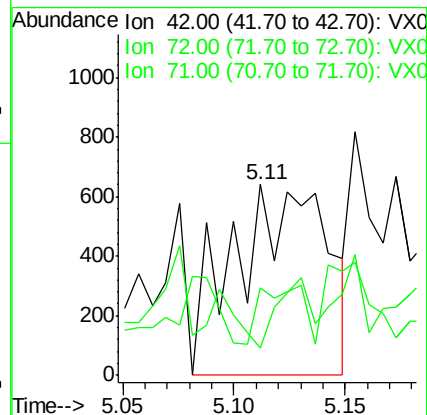
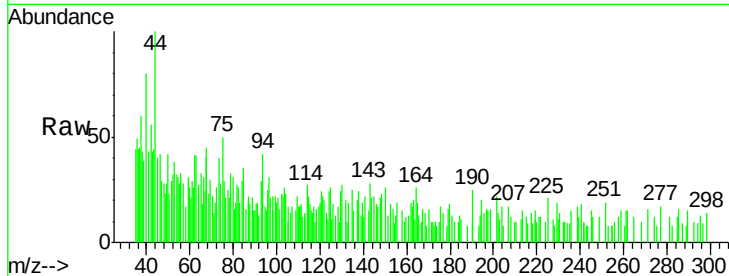
Tgt Ion: 42 Resp: 1864

Ion Ratio Lower Upper

42 100

72 14.4 35.8 53.8#

71 12.6 33.6 50.4#



#33

1,2-Dichloroethane-d4

Concen: 49.403 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014335.D

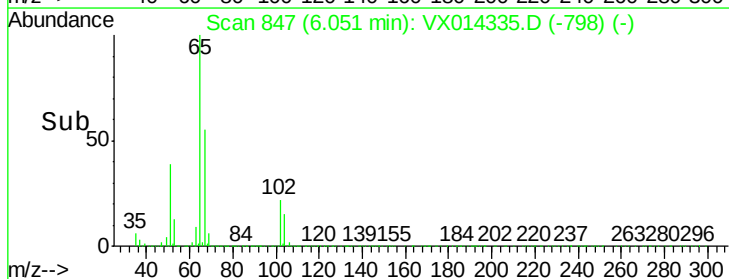
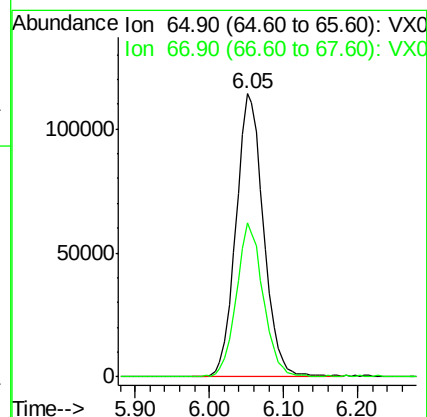
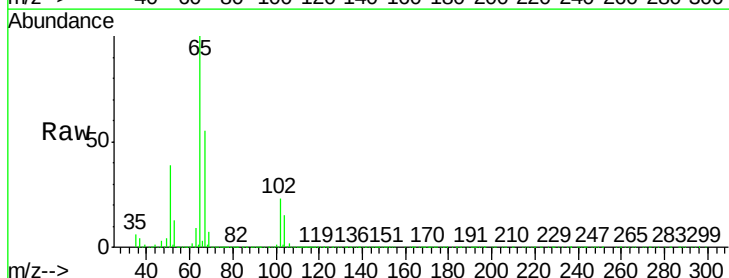
Acq: 28 Dec 2019 02:36

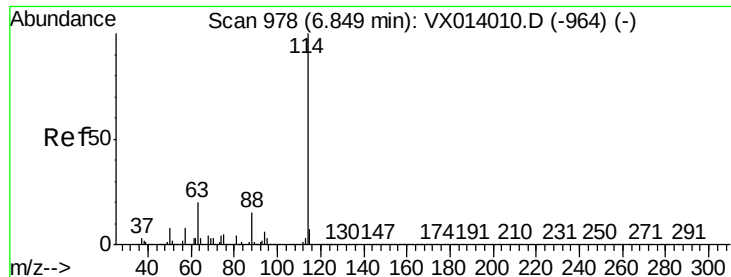
Tgt Ion: 65 Resp: 294911

Ion Ratio Lower Upper

65 100

67 53.3 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: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

SB-4-(5-6)-TCLP

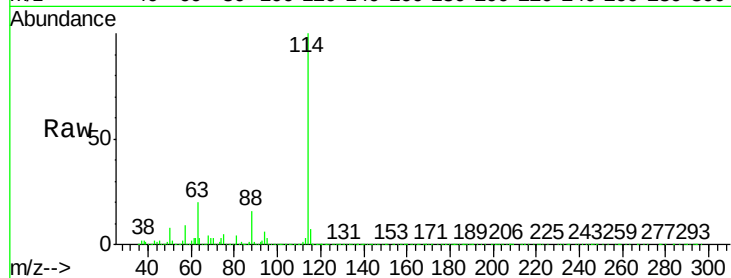
Tgt Ion:114 Resp: 822032

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

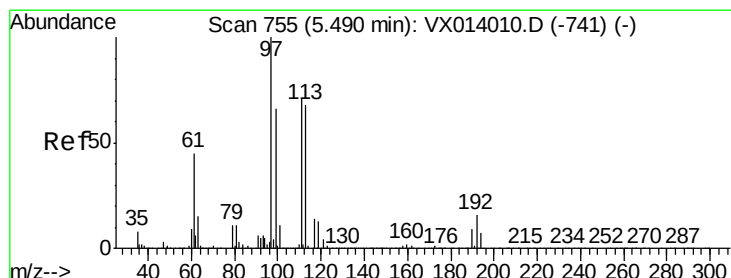
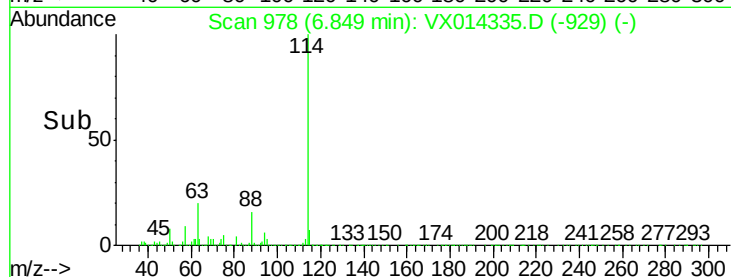
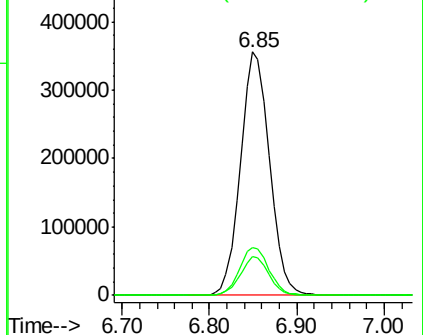
88 15.9 0.0 30.4



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: 49.045 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

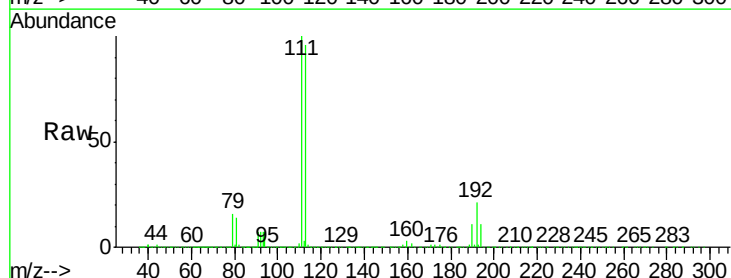
Tgt Ion:113 Resp: 245078

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

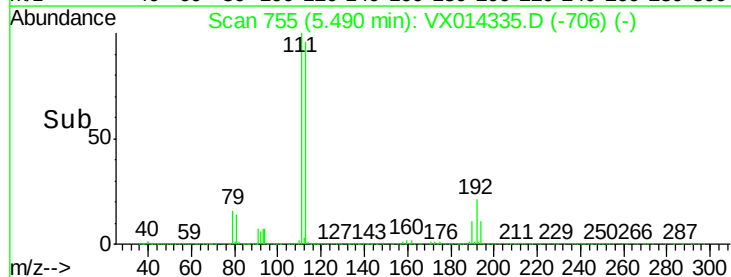
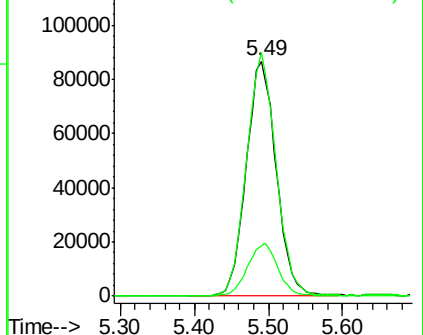
192 22.8 19.3 28.9

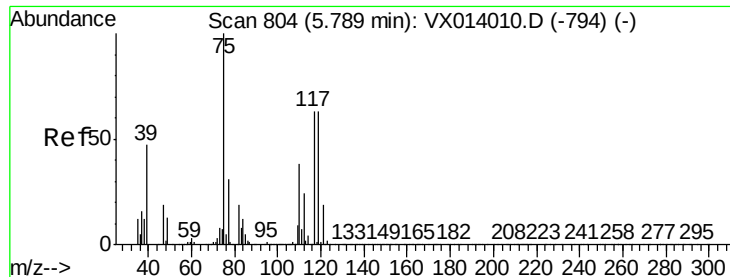


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

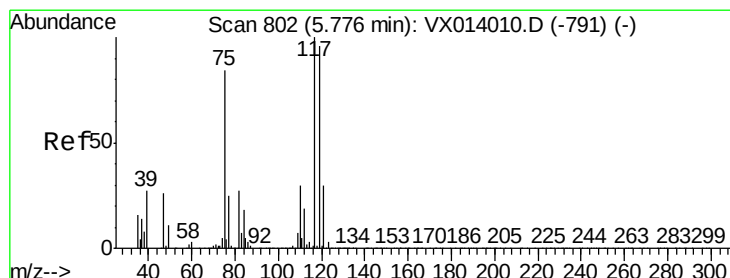
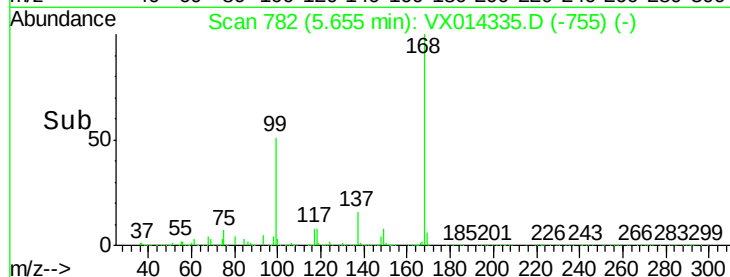
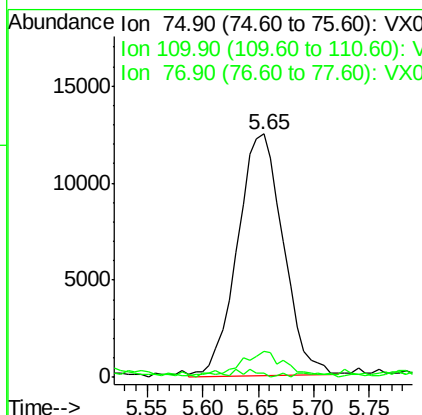
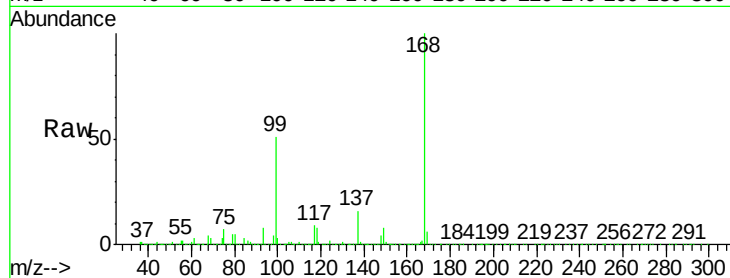




#36
 1,1-Dichloropropene
 Concen: 4.715 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014335.D
 Acq: 28 Dec 2019 02:36

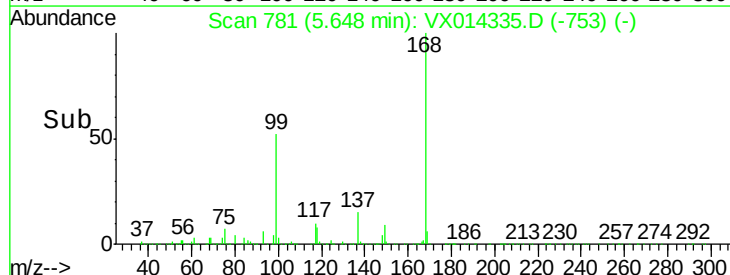
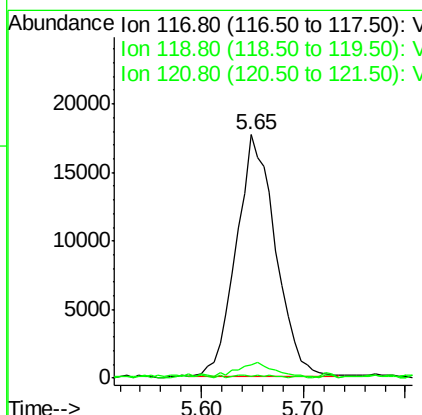
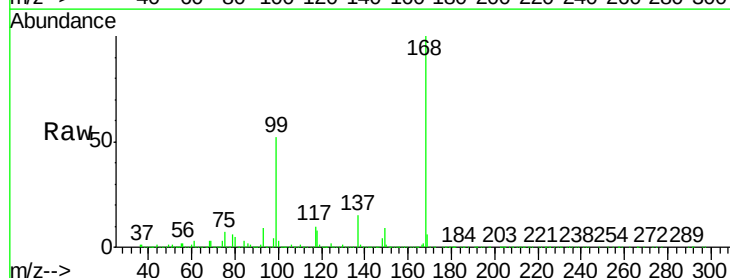
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-(5-6)-TCLP

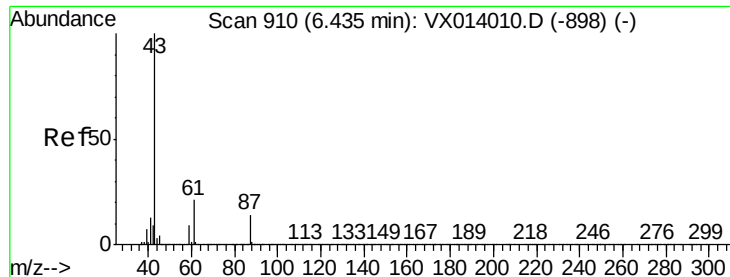
Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.3	54.9#
77	0.3	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.897 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014335.D
 Acq: 28 Dec 2019 02:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.2	114.4#
121	0.4	23.6	35.4#





#43

Isopropyl Acetate

Concen: 9.009 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

SB-4-(5-6)-TCLP

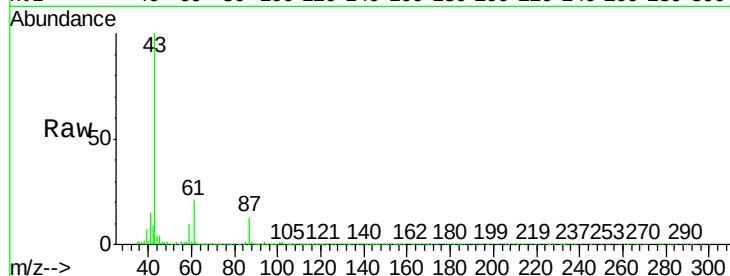
Tgt Ion: 43 Resp: 124181

Ion Ratio Lower Upper

43 100

61 21.0 16.4 24.6

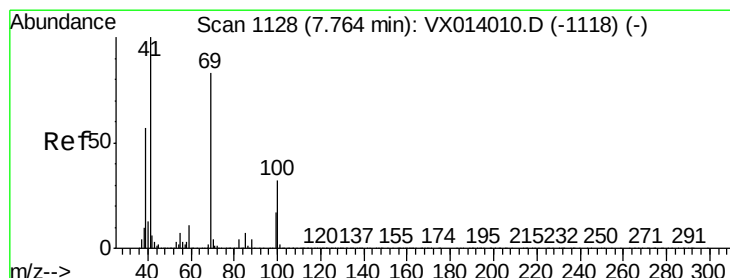
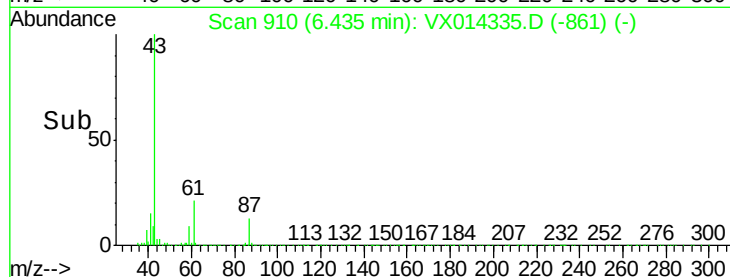
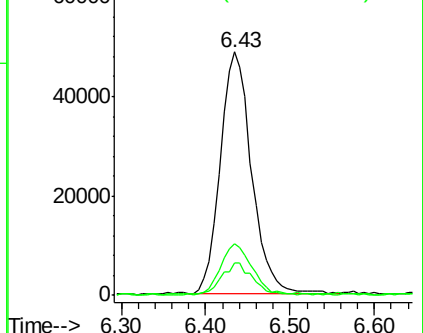
87 13.1 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 30.766 ug/l

RT: 7.86 min Scan# 1144

Delta R.T. 0.10 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

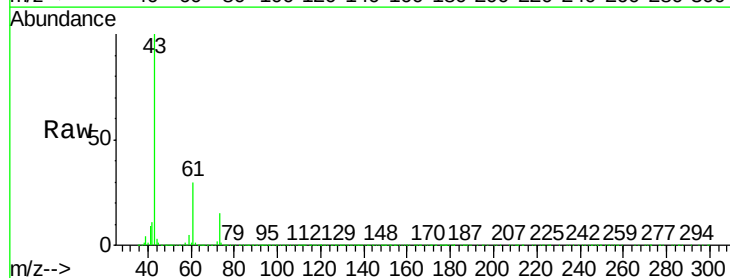
Tgt Ion: 41 Resp: 207668

Ion Ratio Lower Upper

41 100

69 0.1 65.8 98.6#

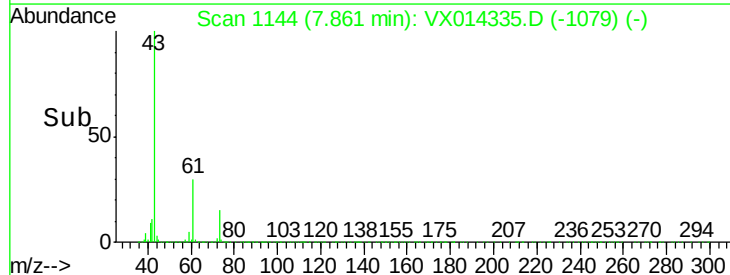
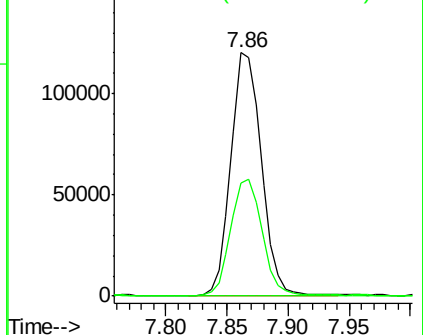
39 49.0 44.6 67.0

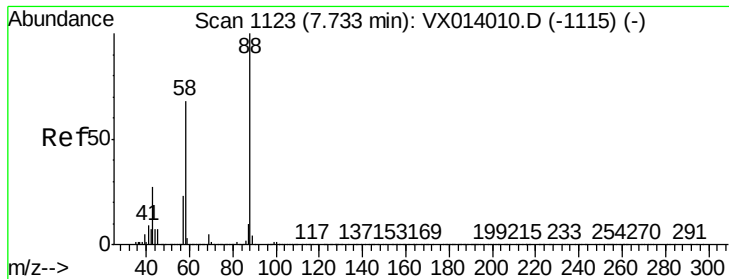


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 6.093 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

SB-4-(5-6)-TCLP

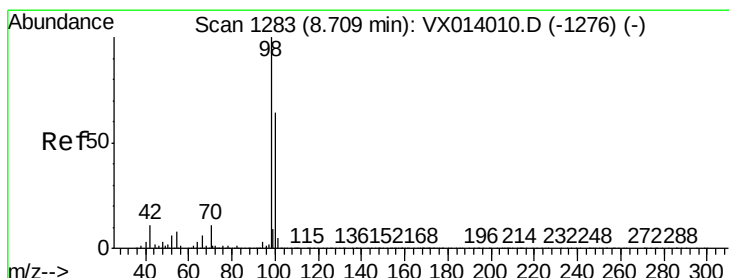
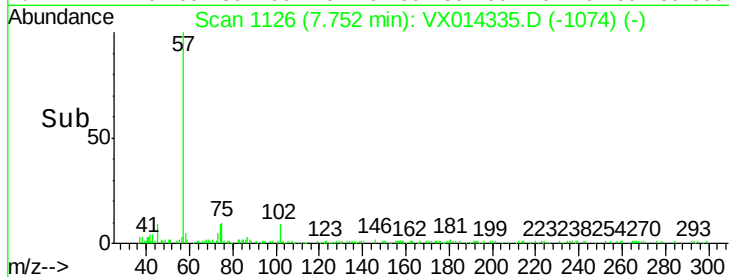
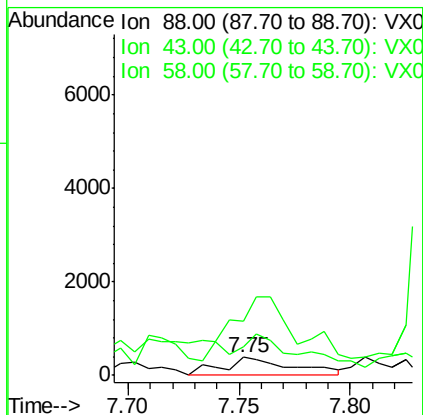
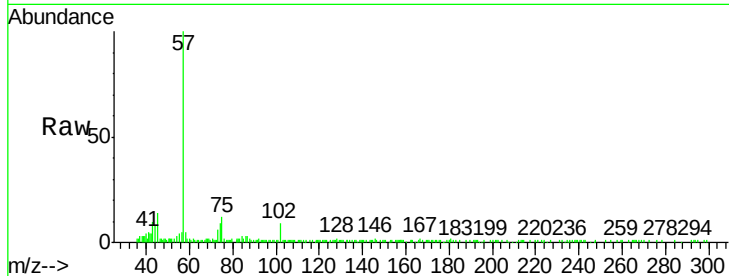
Tgt Ion: 88 Resp: 837

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 239.1 56.8 85.2#



#50

Toluene-d8

Concen: 51.102 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014335.D

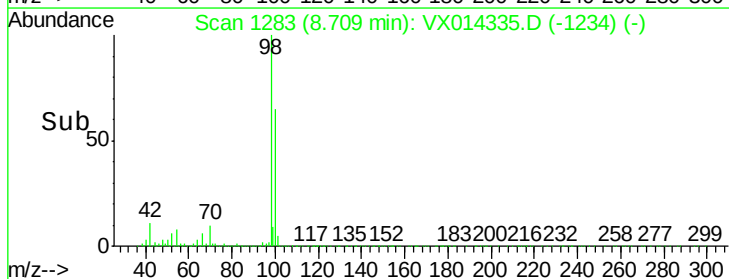
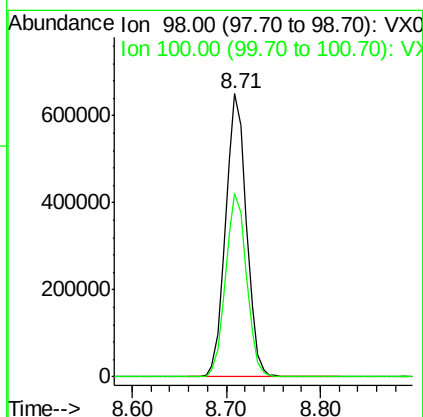
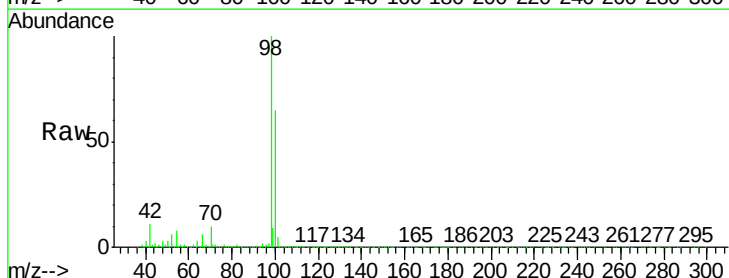
Acq: 28 Dec 2019 02:36

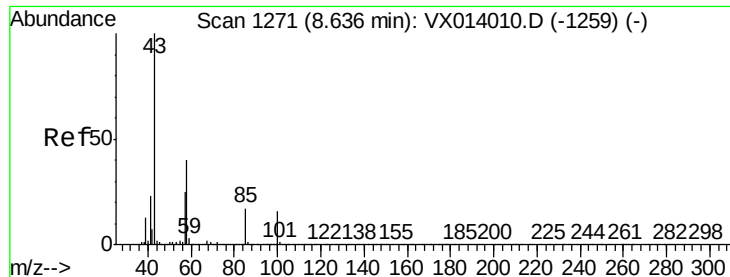
Tgt Ion: 98 Resp: 994173

Ion Ratio Lower Upper

98 100

100 65.1 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 13.523 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

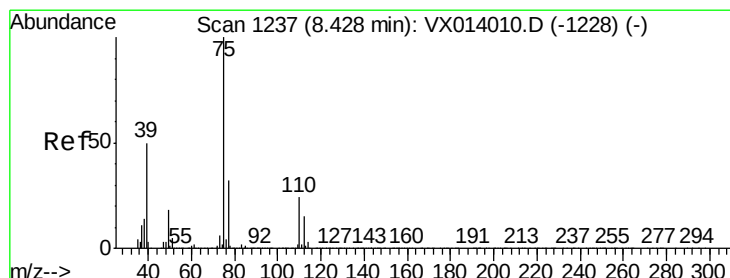
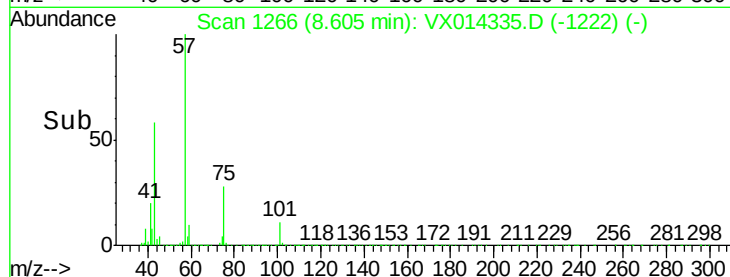
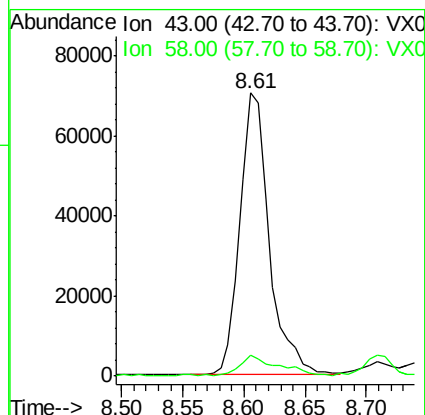
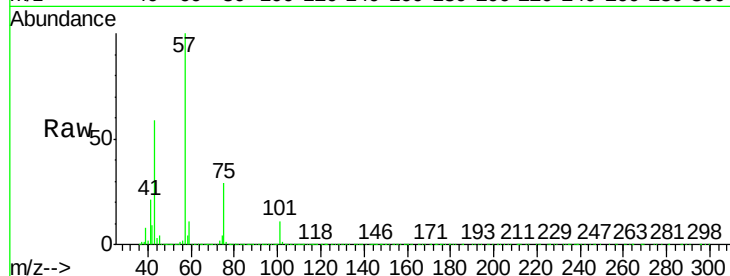
SB-4-(5-6)-TCLP

Tgt Ion: 43 Resp: 117064

Ion Ratio Lower Upper

43 100

58 9.8 32.2 48.2#



#54

cis-1,3-Dichloropropene

Concen: 5.924 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

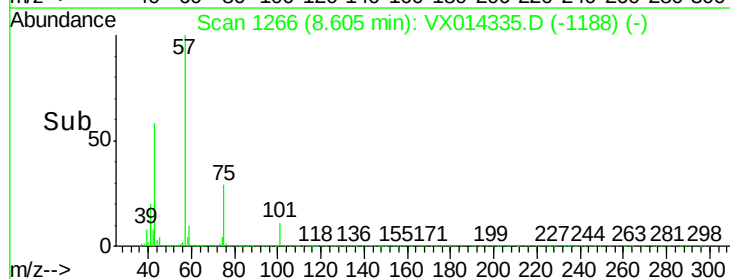
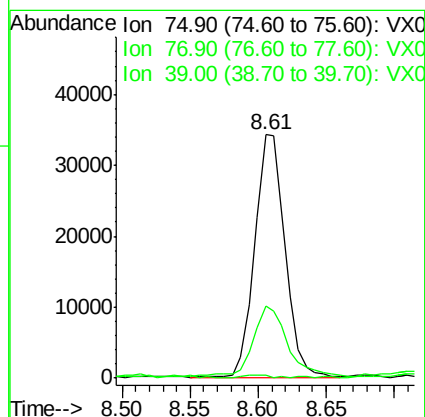
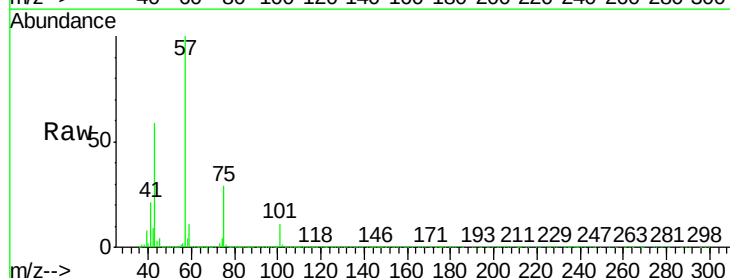
Tgt Ion: 75 Resp: 53604

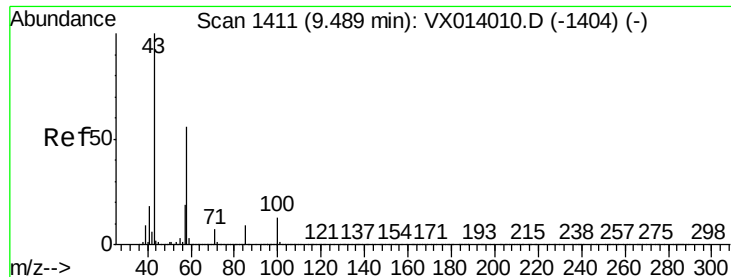
Ion Ratio Lower Upper

75 100

77 0.6 25.3 37.9#

39 29.1 39.9 59.9#

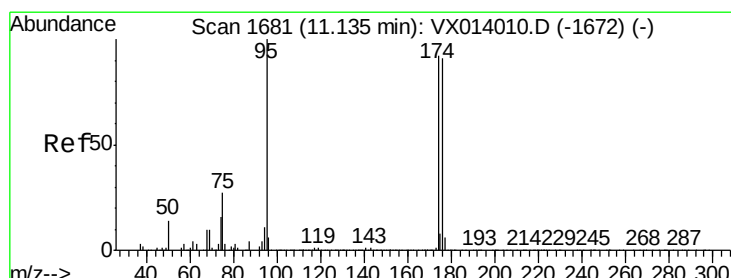
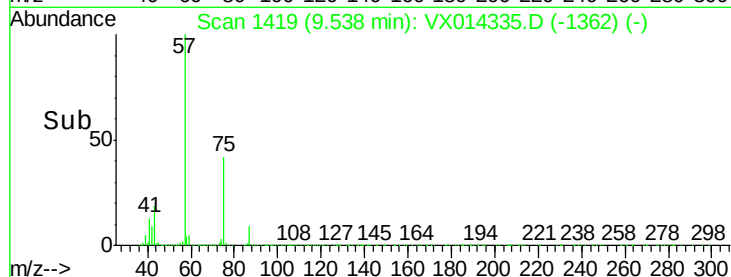
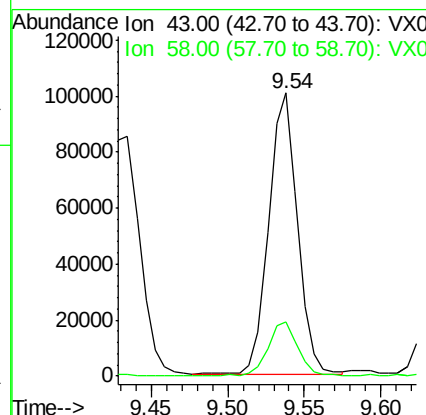
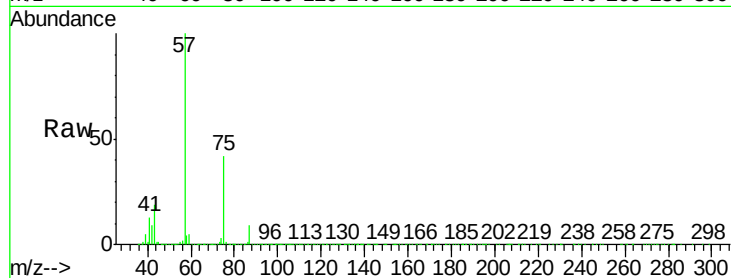




#59
2-Hexanone
Concen: 18.761 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

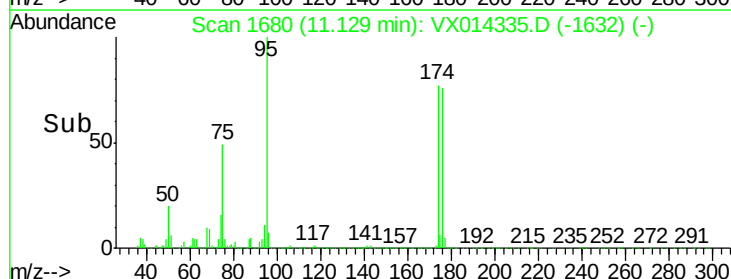
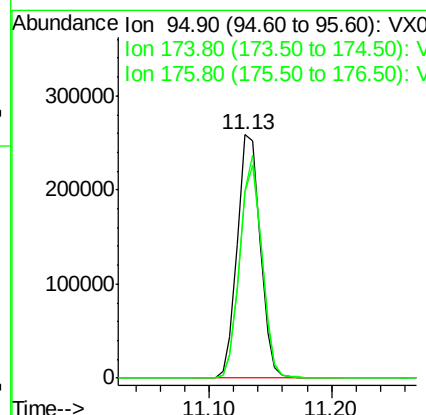
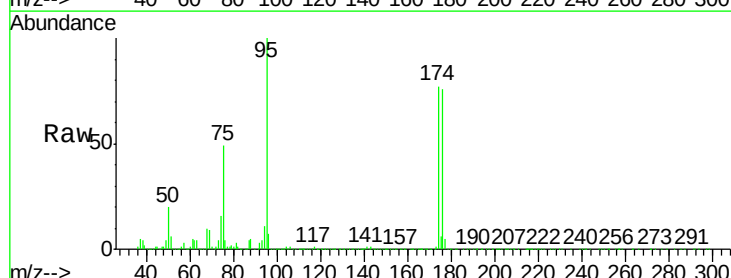
Instrument :
MSVOA_X
ClientSampleId :
SB-4-(5-6)-TCLP

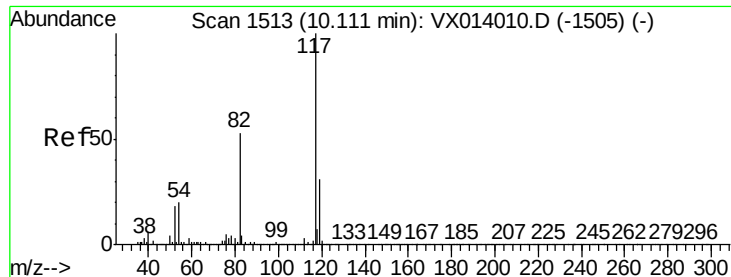
Tgt Ion: 43 Resp: 130742
Ion Ratio Lower Upper
43 100
58 20.5 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 47.120 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

Tgt Ion: 95 Resp: 335098
Ion Ratio Lower Upper
95 100
174 87.3 0.0 175.8
176 84.8 0.0 173.0

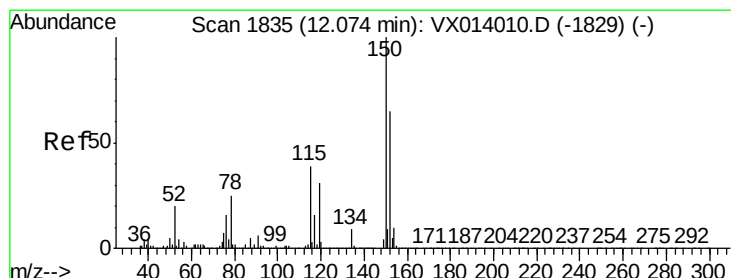
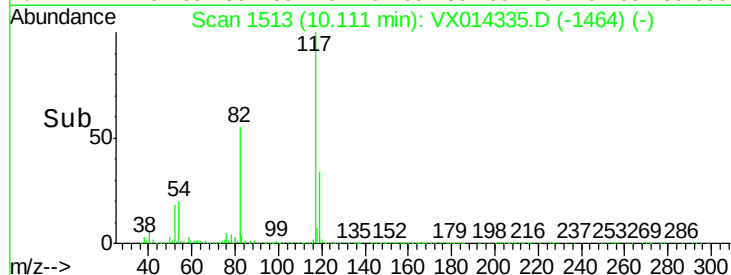
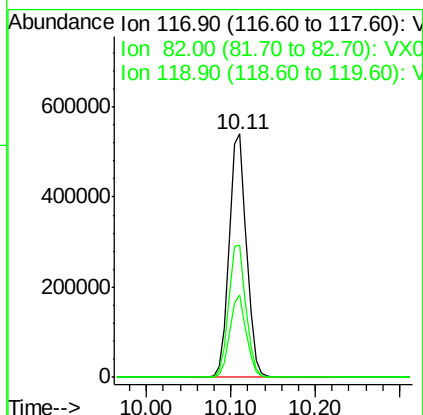
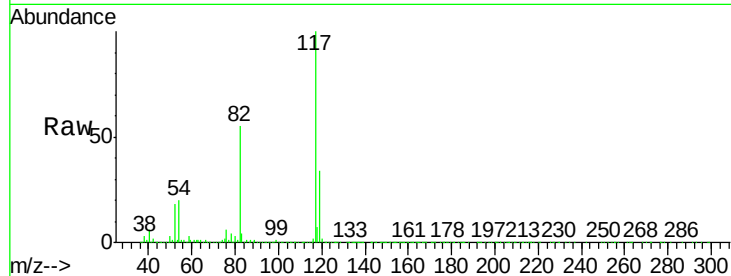




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

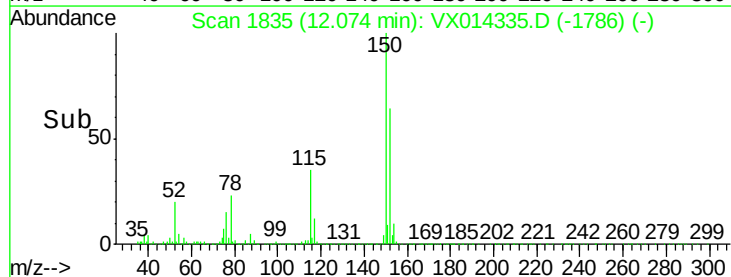
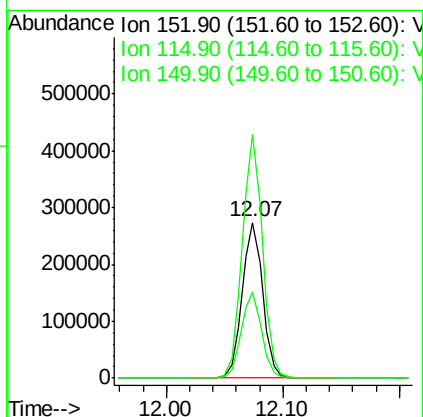
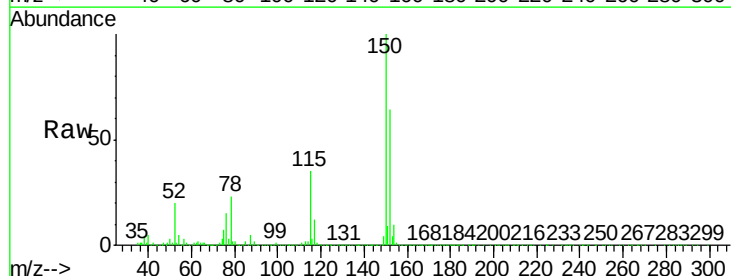
Instrument :
MSVOA_X
ClientSampled :
SB-4-(5-6)-TCLP

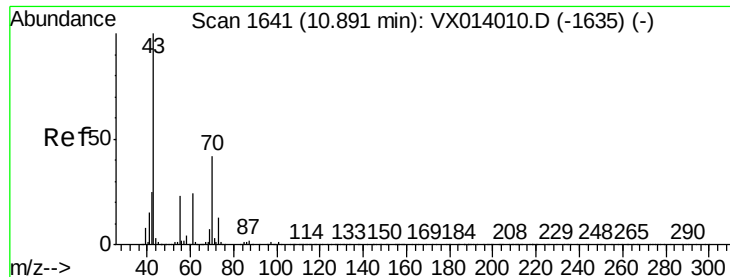
Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.5	42.2	63.4
119	33.9	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014335.D
Acq: 28 Dec 2019 02:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	38.3	114.9
150	154.7	0.0	345.4





#74

N-amyI acetate

Concen: 0.530 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

SB-4-(5-6)-TCLP

Tgt Ion: 43 Resp: 5849

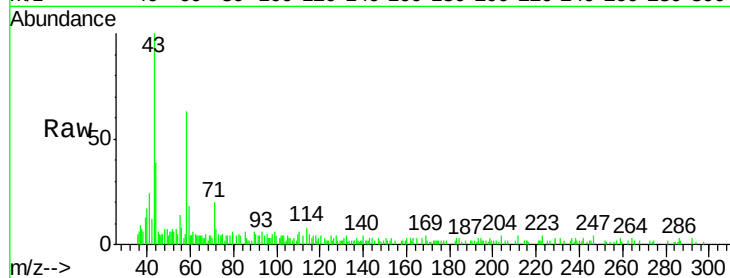
Ion Ratio Lower Upper

43 100

70 2.0 34.4 51.6#

55 8.6 19.1 28.7#

61 0.0 19.7 29.5#

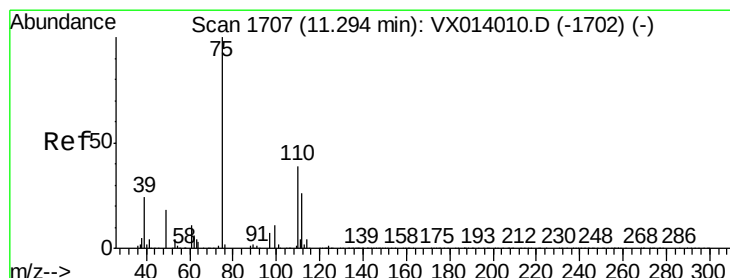
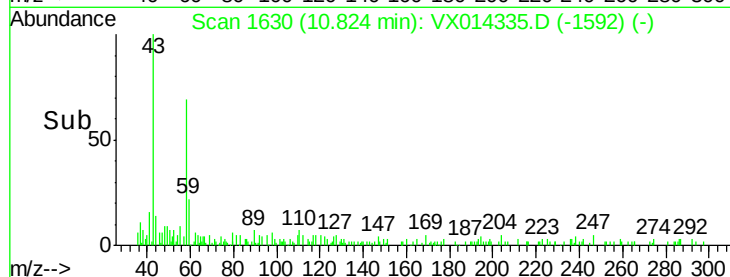
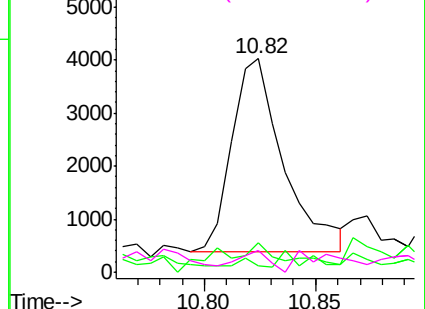


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.408 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014335.D

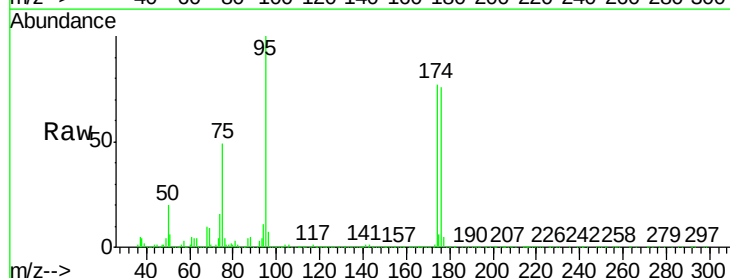
Acq: 28 Dec 2019 02:36

Tgt Ion: 75 Resp: 162783

Ion Ratio Lower Upper

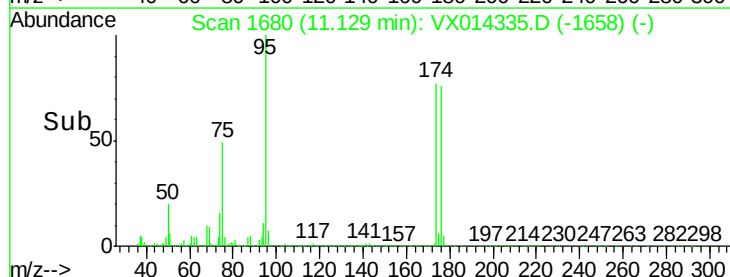
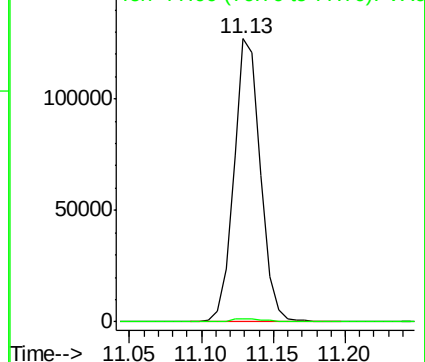
75 100

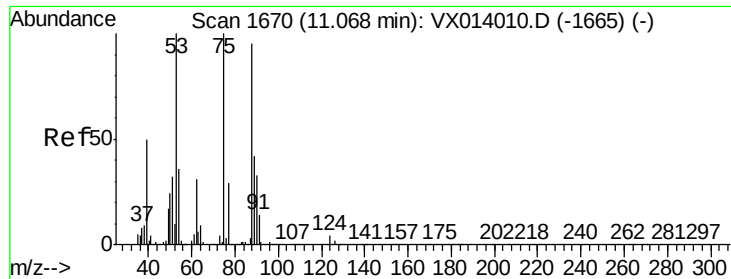
77 1.5 19.3 57.8#



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: 63.248 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014335.D

Acq: 28 Dec 2019 02:36

Instrument :

MSVOA_X

ClientSampleId :

SB-4-(5-6)-TCLP

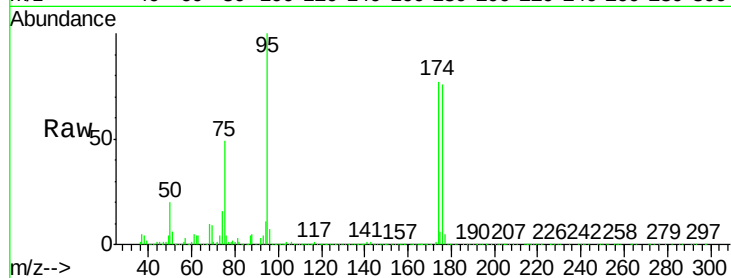
Tgt Ion: 75 Resp: 162783

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.2 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

