

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX031419\
 Data File : VX008069.D
 Acq On : 14 Mar 2019 14:33
 Operator : JC/SP
 Sample : K1843-01
 Misc : 5.95g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GATE-SOIL-BOX

Quant Time: Mar 14 15:01:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 14 14:56:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	268120	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.85	114	412703	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	413698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	229306	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	138298	51.13	ug/l	0.00
Spiked Amount						
			Recovery	=	102.26%	
35) Dibromofluoromethane	5.50	113	127693	48.79	ug/l	0.00
Spiked Amount						
			Recovery	=	97.58%	
50) Toluene-d8	8.71	98	506833	50.92	ug/l	0.00
Spiked Amount						
			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.14	95	203056	56.95	ug/l	0.00
Spiked Amount						
			Recovery	=	113.90%	

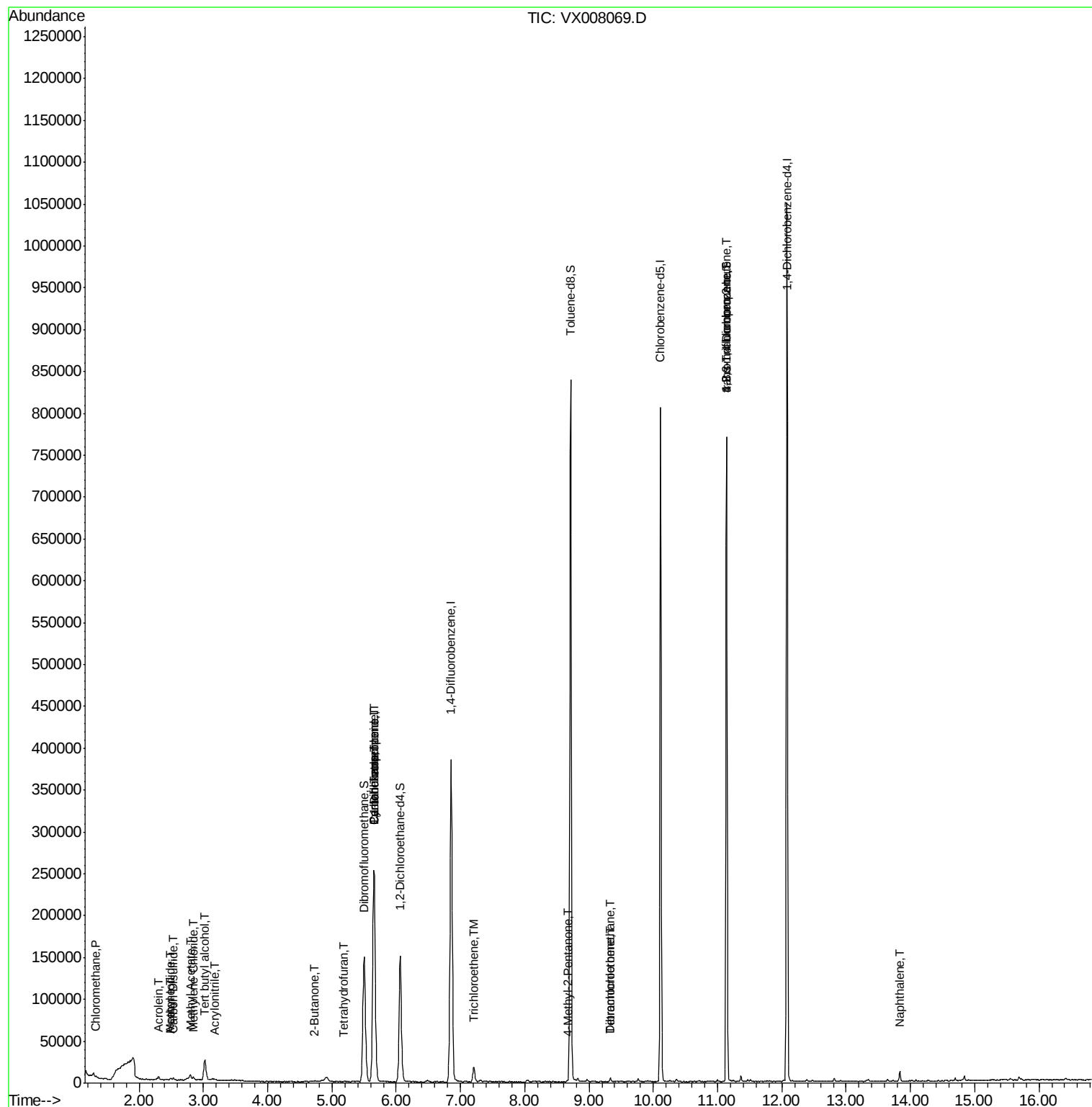
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1360	0.538	ug/l #	82
5) Bromomethane	1.64	94	1619	Below Cal		87
6) Chloroethane	1.69	64	170	Below Cal	#	83
10) Methyl Iodide	2.49	142	1149	0.380	ug/l #	95
11) Tert butyl alcohol	3.03	59	15783	30.205	ug/l #	79
13) Acrolein	2.30	56	167	0.347	ug/l #	65
15) Acrylonitrile	3.18	53	584	0.458	ug/l	86
16) Acetone	2.48	43	1343	1.052	ug/l #	88
17) Carbon Disulfide	2.53	76	2562	0.436	ug/l	96
18) Methyl Acetate	2.80	43	3649	1.322	ug/l #	80
20) Methylene Chloride	2.84	84	1480	0.649	ug/l	85
25) 2-Butanone	4.73	43	1350	0.689	ug/l	91
29) Tetrahydrofuran	5.18	42	328	0.268	ug/l #	51
31) Cyclohexane	5.65	56	3859	0.998	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	16473	4.852	ug/l #	49
38) Carbon Tetrachloride	5.65	117	22385	6.850	ug/l #	17
44) Trichloroethene	7.21	130	7277	2.424	ug/l	92
51) 4-Methyl-2-Pentanone	8.66	43	1008	0.260	ug/l #	75
60) Dibromochloromethane	9.34	129	675	0.243	ug/l #	11
64) Tetrachloroethene	9.34	164	689	0.206	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	92482	23.223	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	92482	66.084	ug/l #	12
95) Naphthalene	13.83	128	7456	0.529	ug/l	98

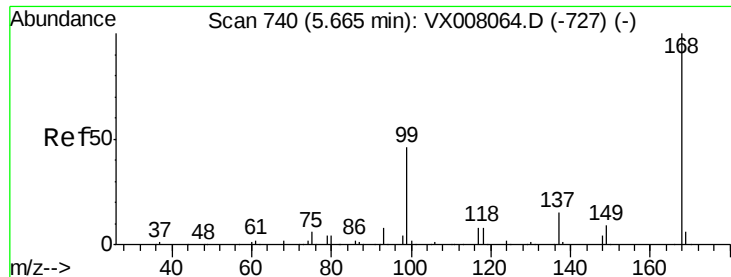
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
Quant Title : SW846 8260
QLast Update : Thu Mar 14 14:56:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.01 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

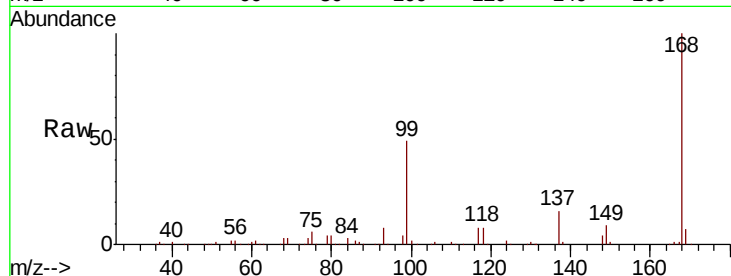
GATE-SOIL-BOX

Tgt Ion:168 Resp: 268120

Ion Ratio Lower Upper

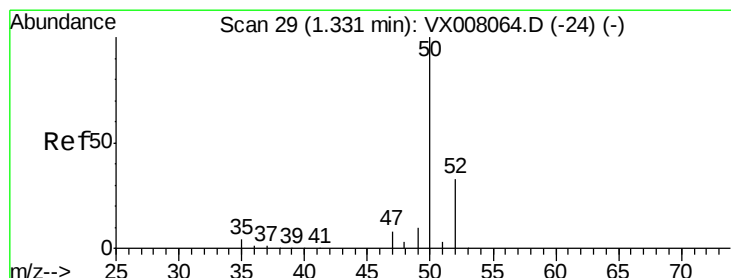
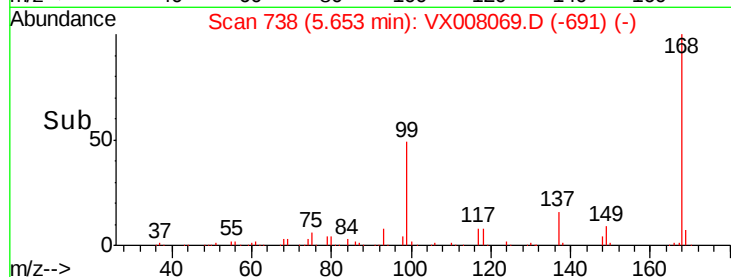
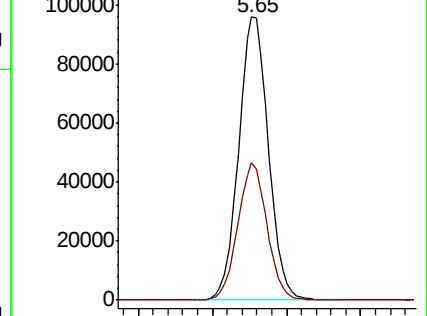
168 100

99 48.6 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.538 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX008069.D

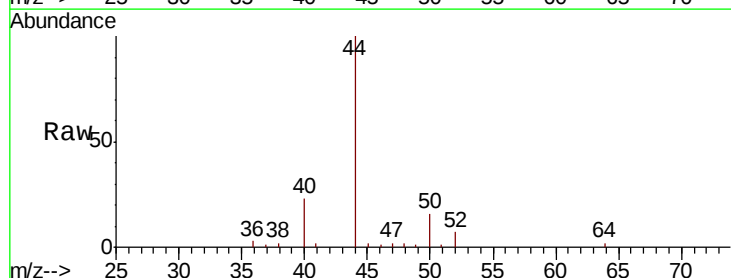
Acq: 14 Mar 2019 14:33

Tgt Ion: 50 Resp: 1360

Ion Ratio Lower Upper

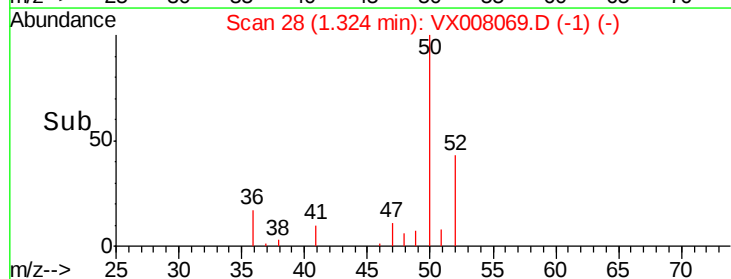
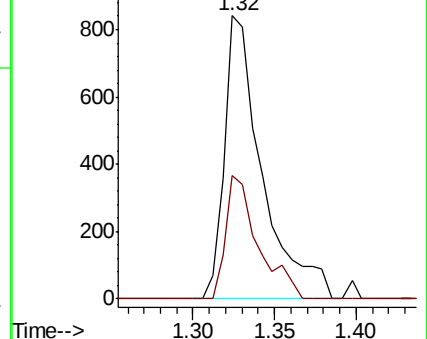
50 100

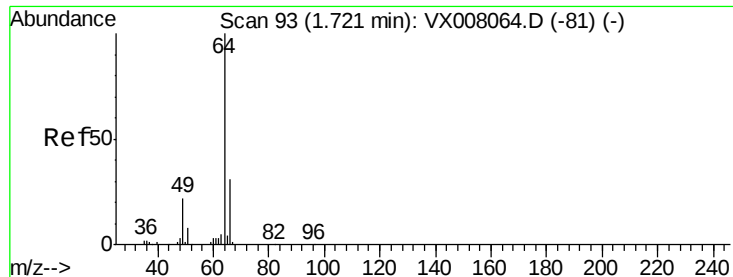
52 43.4 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.03 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

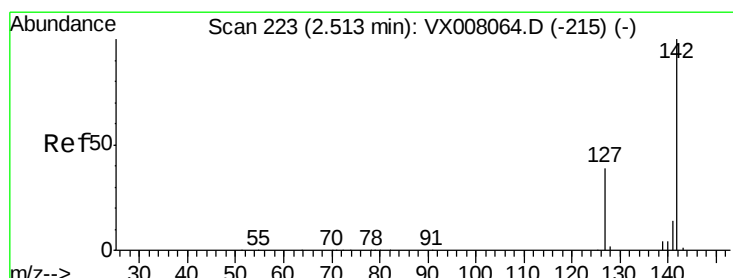
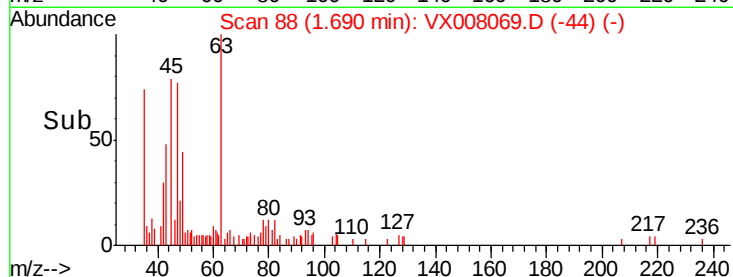
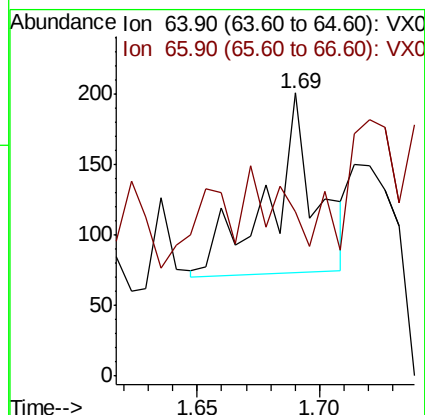
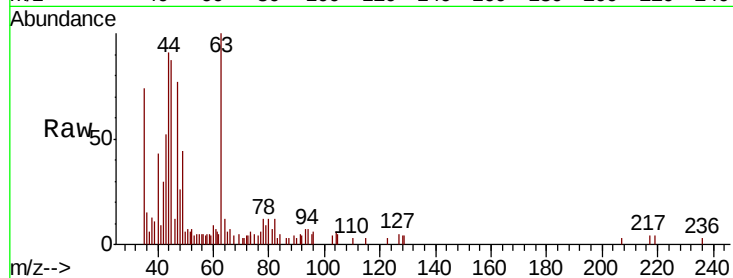
GATE-SOIL-BOX

Tgt Ion: 64 Resp: 170

Ion Ratio Lower Upper

64 100

66 22.2 25.2 37.8#



#10

Methyl Iodide

Concen: 0.380 ug/l

RT: 2.49 min Scan# 219

Delta R.T. -0.02 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

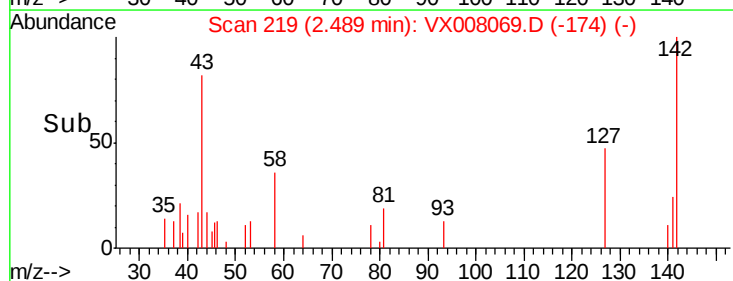
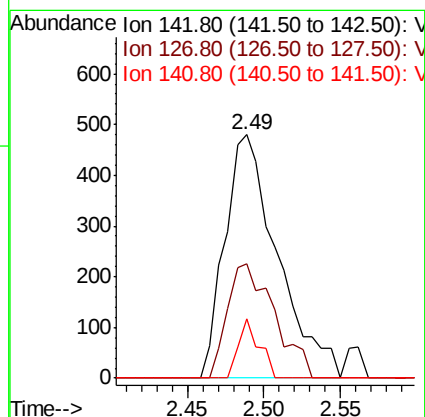
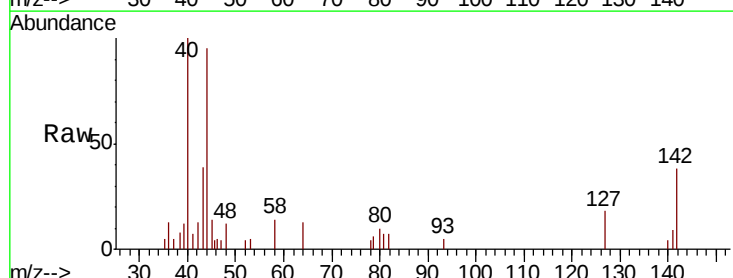
Tgt Ion: 142 Resp: 1149

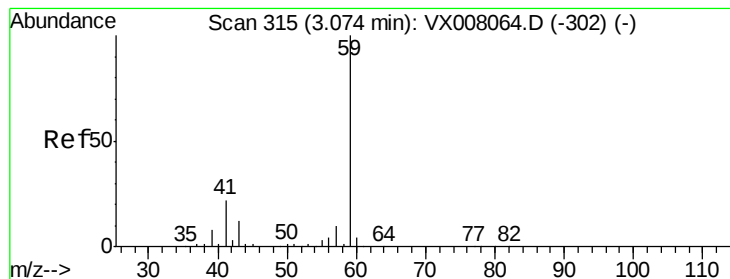
Ion Ratio Lower Upper

142 100

127 41.6 32.1 48.1

141 9.6 11.4 17.2#



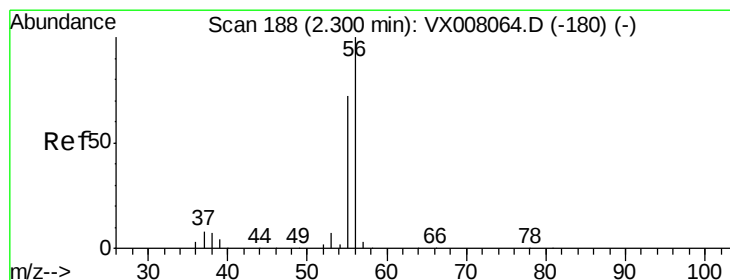
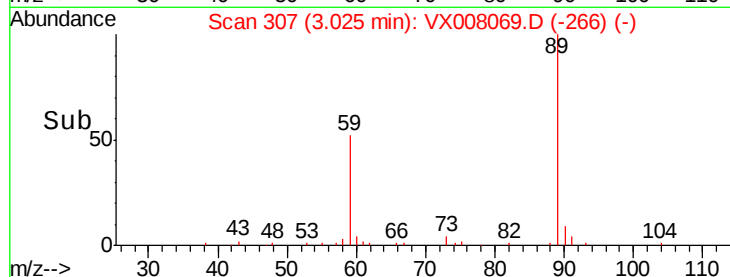
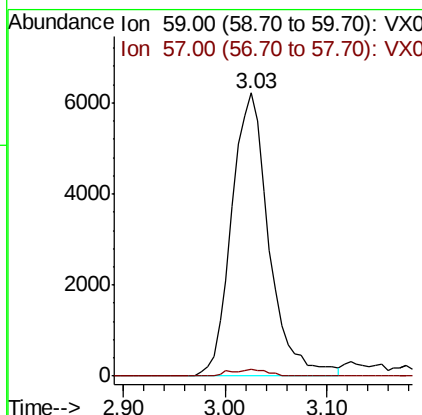
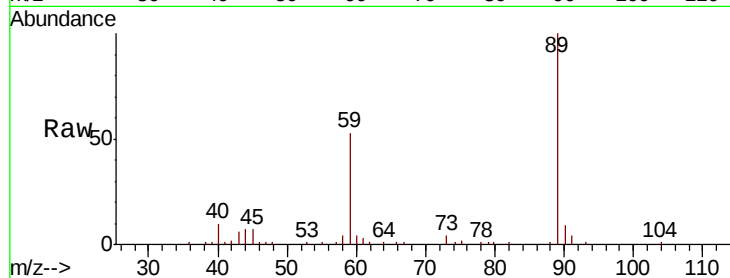


#11

Tert butyl alcohol
 Concen: 30.205 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX008069.D
 Acq: 14 Mar 2019 14:33

Instrument :
 MSVOA_X
 ClientSampleId :
 GATE-SOIL-BOX

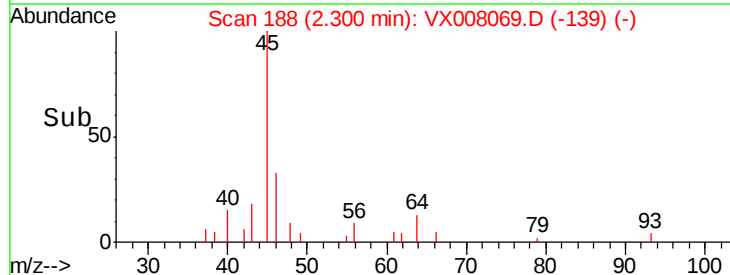
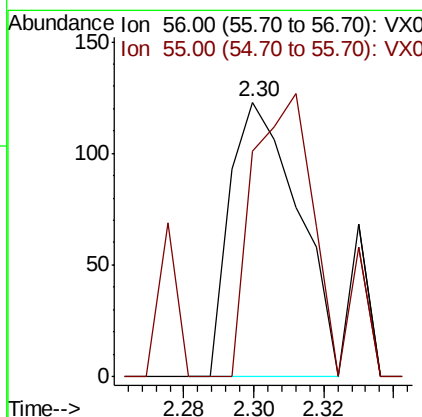
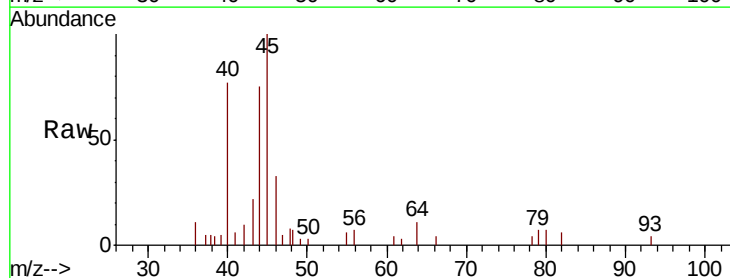
Tgt Ion: 59 Resp: 15783
 Ion Ratio Lower Upper
 59 100
 57 2.3 8.2 12.2#

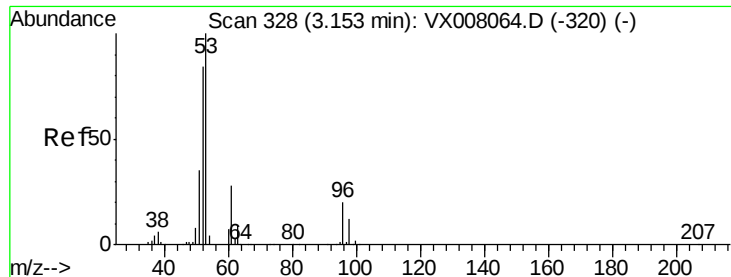


#13

Acrolein
 Concen: 0.347 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. -0.00 min
 Lab File: VX008069.D
 Acq: 14 Mar 2019 14:33

Tgt Ion: 56 Resp: 167
 Ion Ratio Lower Upper
 56 100
 55 101.8 57.8 86.6#





#15

Acrylonitrile

Concen: 0.458 ug/l

RT: 3.18 min Scan# 333

Delta R.T. 0.03 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

GATE-SOIL-BOX

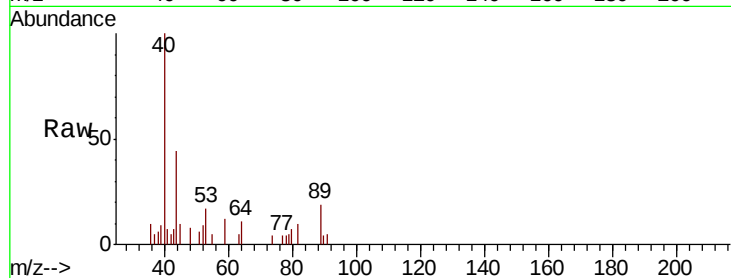
Tgt Ion: 53 Resp: 584

Ion Ratio Lower Upper

53 100

52 68.7 66.0 99.0

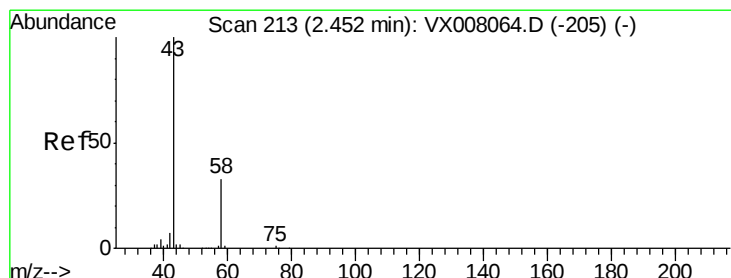
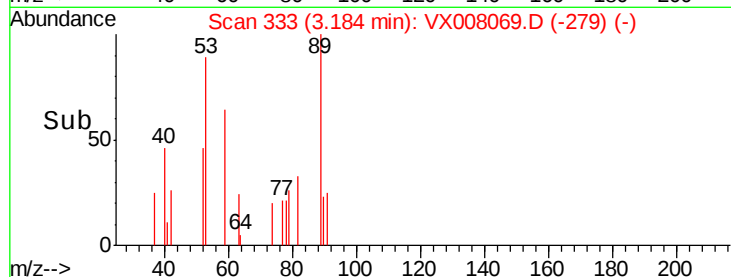
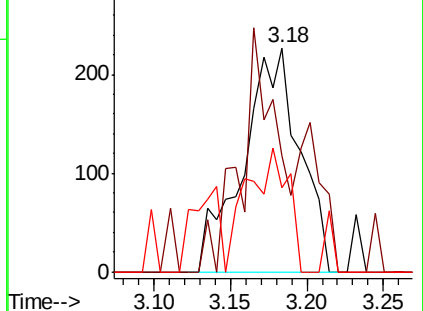
51 40.2 28.0 42.0



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.052 ug/l

RT: 2.48 min Scan# 218

Delta R.T. 0.03 min

Lab File: VX008069.D

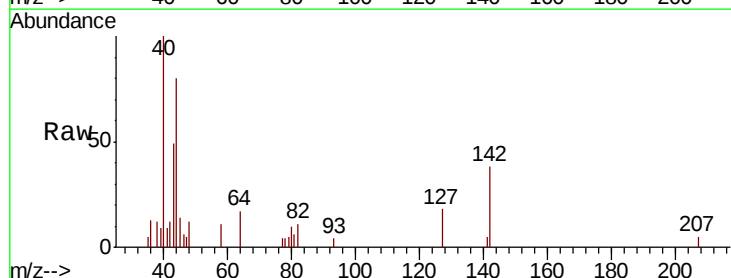
Acq: 14 Mar 2019 14:33

Tgt Ion: 43 Resp: 1343

Ion Ratio Lower Upper

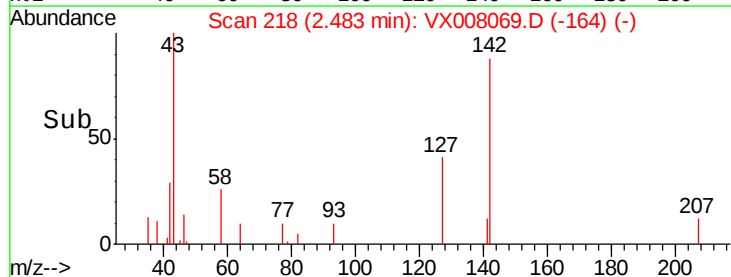
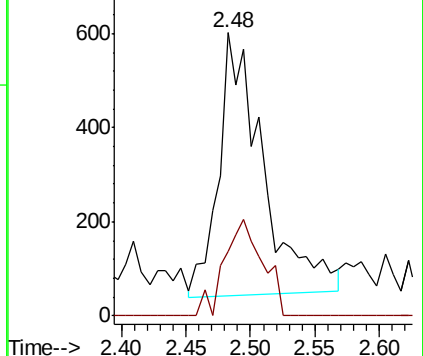
43 100

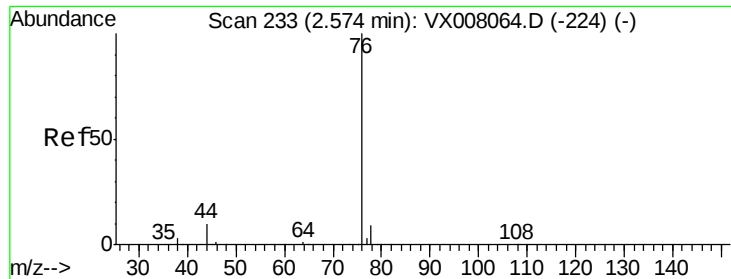
58 25.0 25.5 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

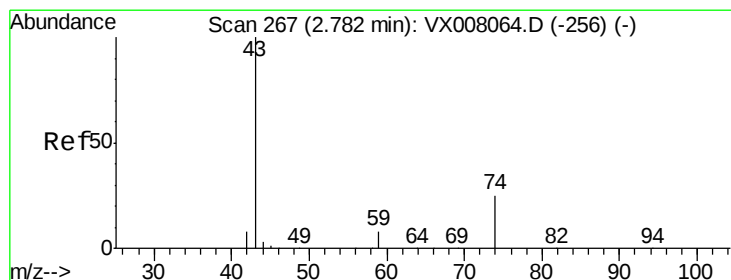
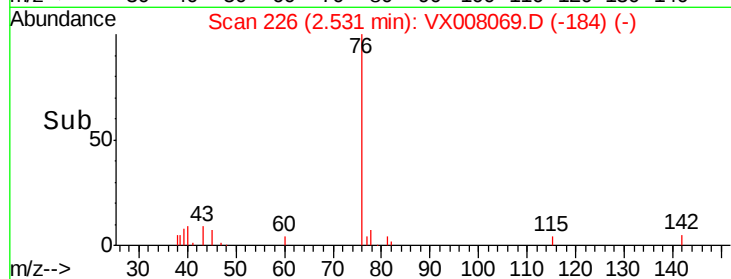
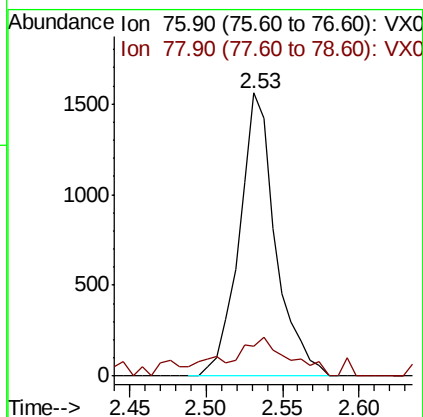
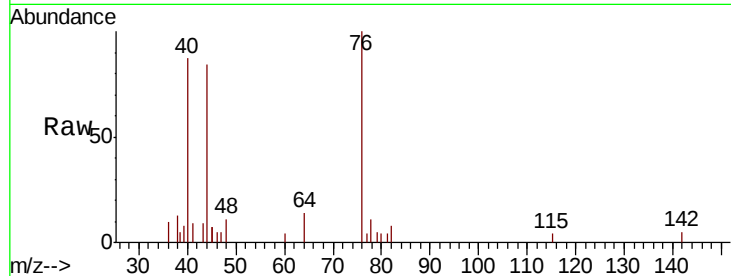




#17
Carbon Disulfide
Concen: 0.436 ug/l
RT: 2.53 min Scan# 226
Delta R.T. -0.04 min
Lab File: VX008069.D
Acq: 14 Mar 2019 14:33

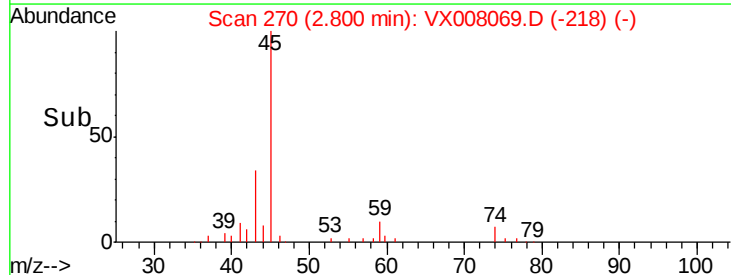
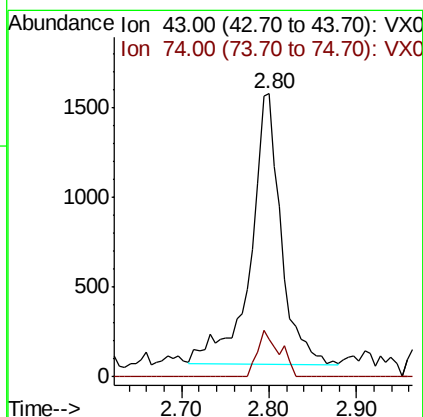
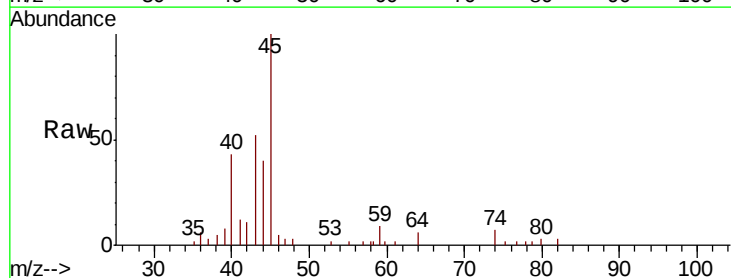
Instrument :
MSVOA_X
ClientSampleId :
GATE-SOIL-BOX

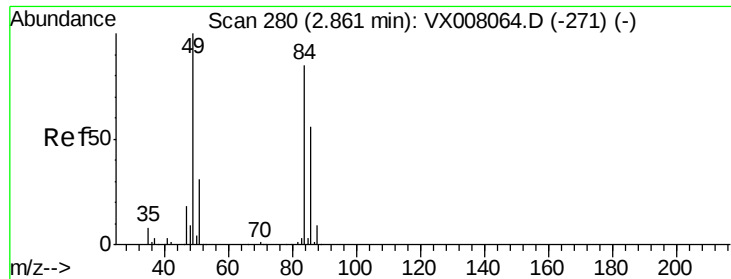
Tgt Ion: 76 Resp: 2562
Ion Ratio Lower Upper
76 100
78 10.6 7.2 10.8



#18
Methyl Acetate
Concen: 1.322 ug/l
RT: 2.80 min Scan# 270
Delta R.T. 0.02 min
Lab File: VX008069.D
Acq: 14 Mar 2019 14:33

Tgt Ion: 43 Resp: 3649
Ion Ratio Lower Upper
43 100
74 12.6 17.8 26.6#





#20

Methylene Chloride

Concen: 0.649 ug/l

RT: 2.84 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

GATE-SOIL-BOX

Tgt Ion: 84 Resp: 1480

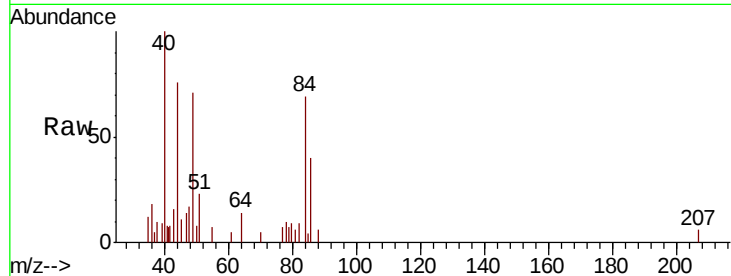
Ion Ratio Lower Upper

84 100

49 102.8 99.3 148.9

51 33.6 31.3 46.9

86 57.2 52.6 79.0

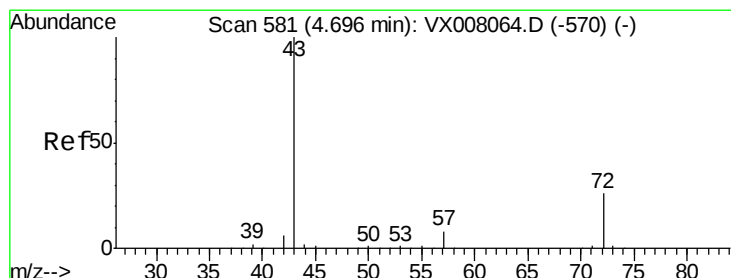
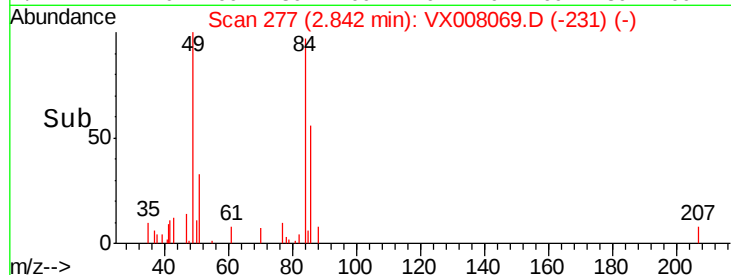
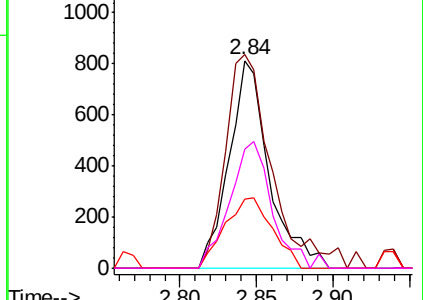


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.689 ug/l

RT: 4.73 min Scan# 586

Delta R.T. 0.03 min

Lab File: VX008069.D

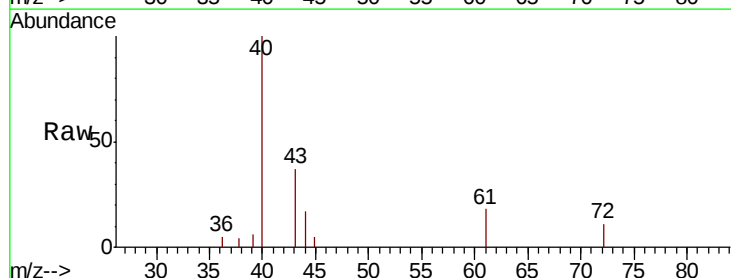
Acq: 14 Mar 2019 14:33

Tgt Ion: 43 Resp: 1350

Ion Ratio Lower Upper

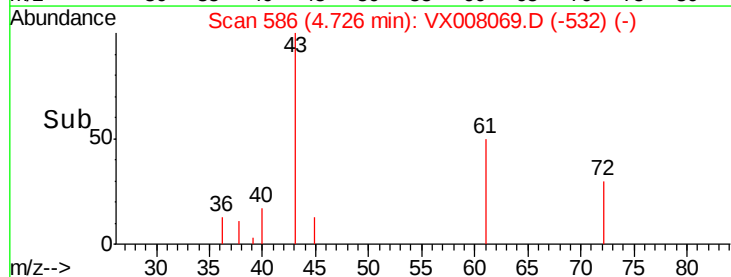
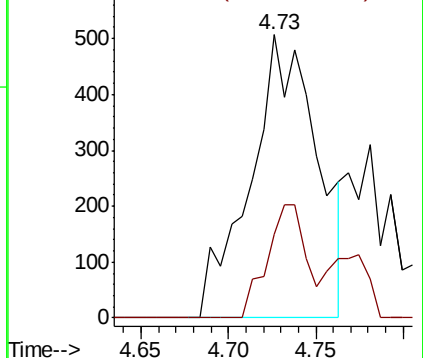
43 100

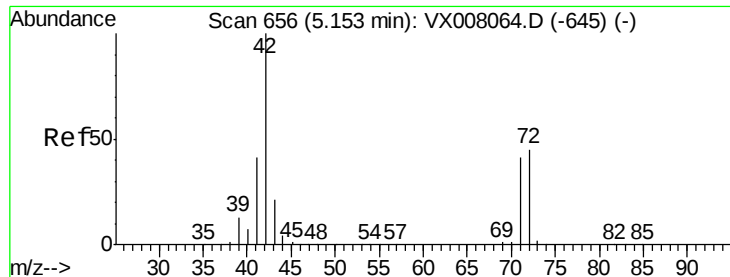
72 29.6 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.268 ug/l

RT: 5.18 min Scan# 661

Delta R.T. 0.03 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampled :

GATE-SOIL-BOX

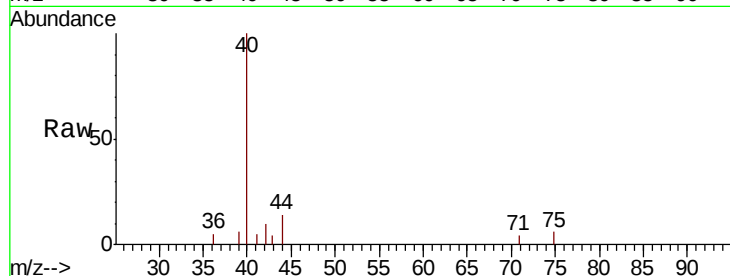
Tgt Ion: 42 Resp: 328

Ion Ratio Lower Upper

42 100

72 6.1 33.8 50.6#

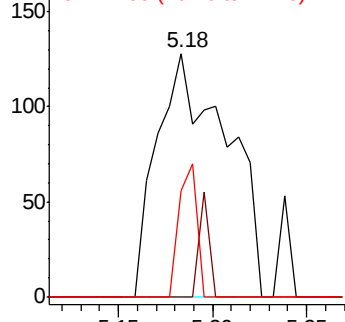
71 14.0 31.5 47.3#



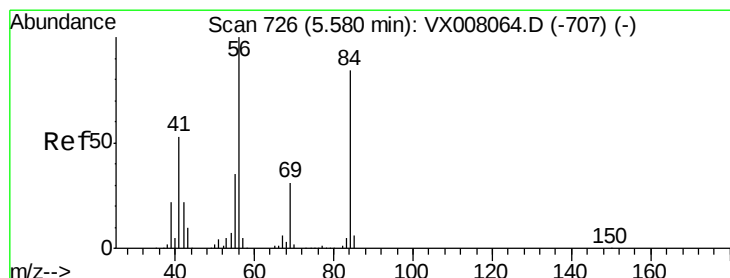
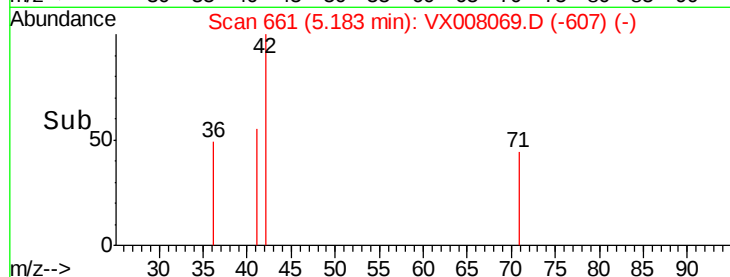
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 0.998 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

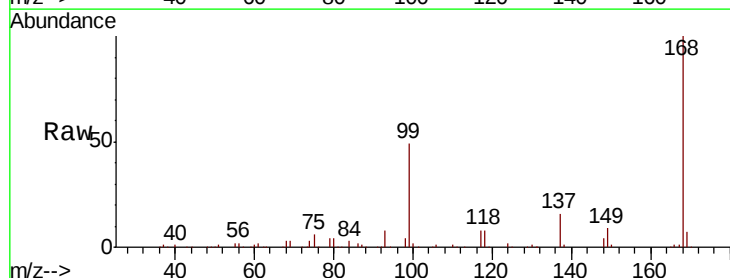
Tgt Ion: 56 Resp: 3859

Ion Ratio Lower Upper

56 100

69 206.0 24.0 36.0#

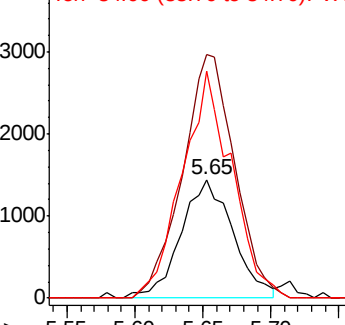
84 192.5 65.3 97.9#



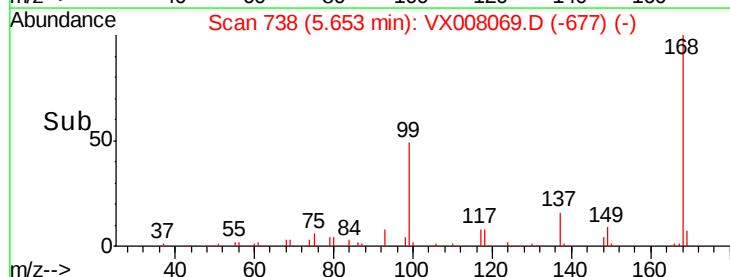
Abundance Ion 56.00 (55.70 to 56.70): VX0

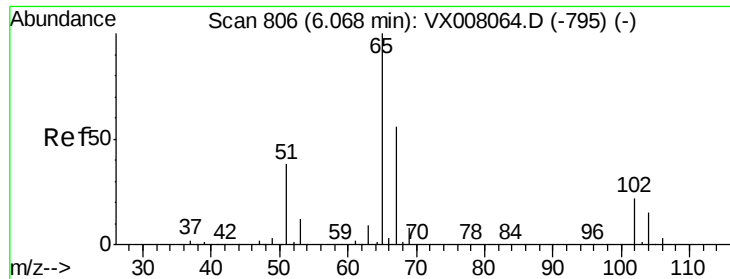
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->

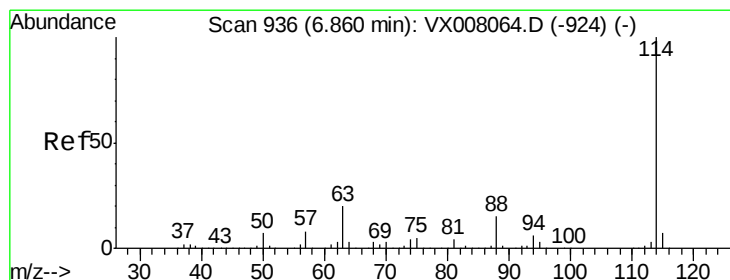
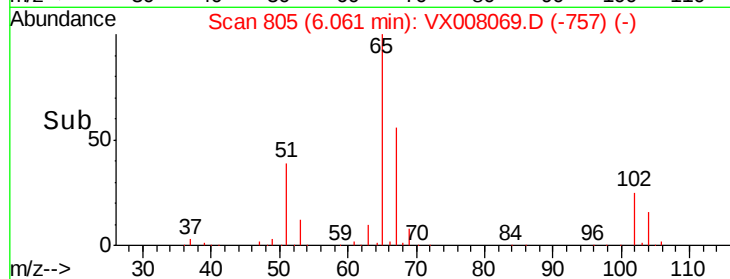
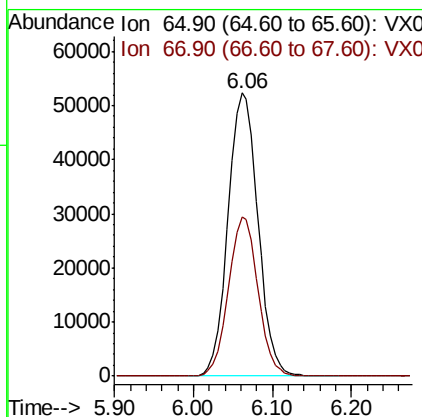
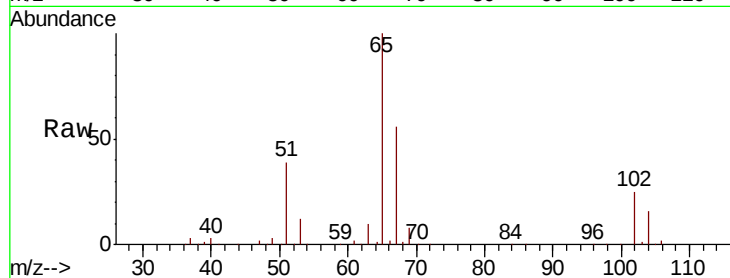




#33
 1,2-Dichloroethane-d4
 Concen: 51.134 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX008069.D
 Acq: 14 Mar 2019 14:33

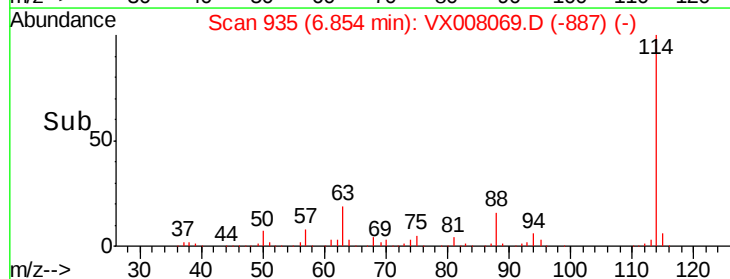
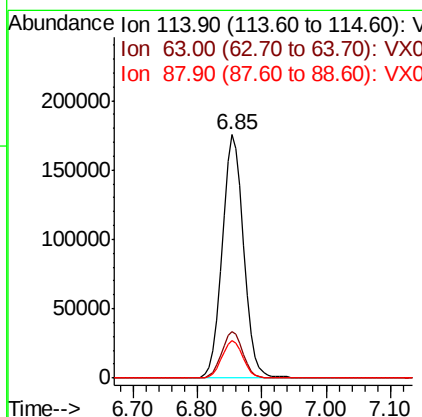
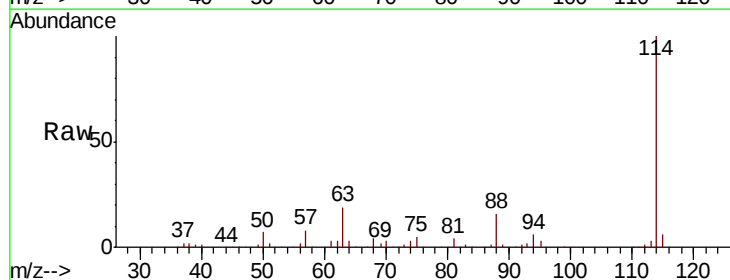
Instrument :
 MSVOA_X
 ClientSampleId :
 GATE-SOIL-BOX

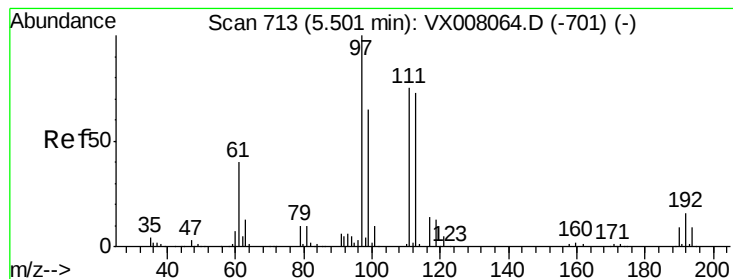
Tgt Ion: 65 Resp: 138298
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX008069.D
 Acq: 14 Mar 2019 14:33

Tgt Ion: 114 Resp: 412703
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.8
 88 15.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.791 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

GATE-SOIL-BOX

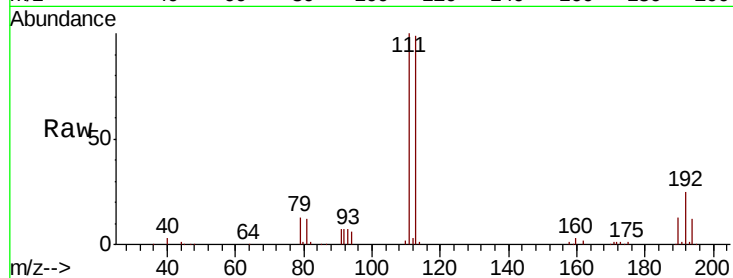
Tgt Ion:113 Resp: 127693

Ion Ratio Lower Upper

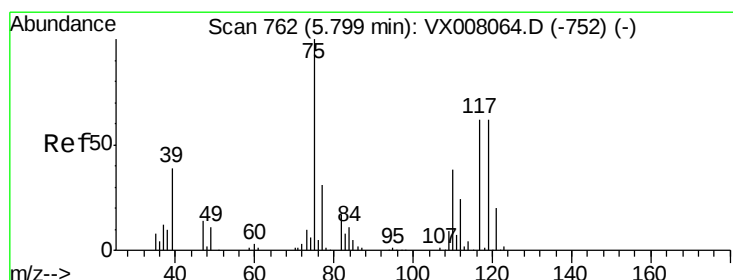
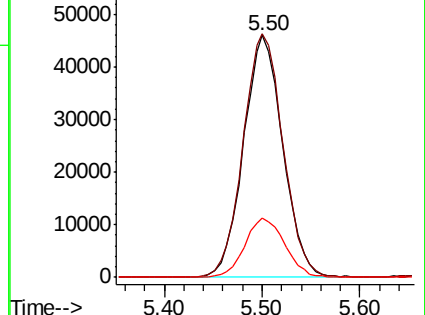
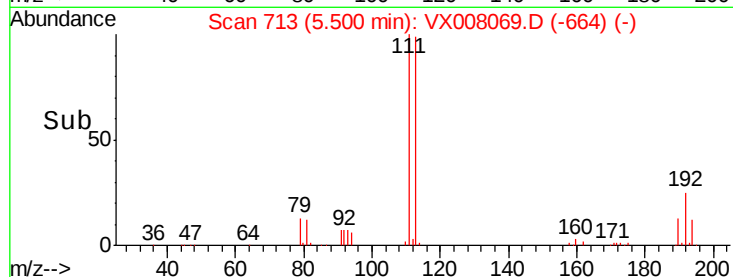
113 100

111 102.6 81.4 122.0

192 25.0 19.4 29.0



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: 4.852 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

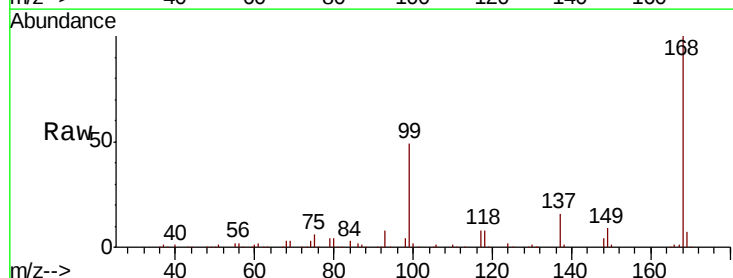
Tgt Ion: 75 Resp: 16473

Ion Ratio Lower Upper

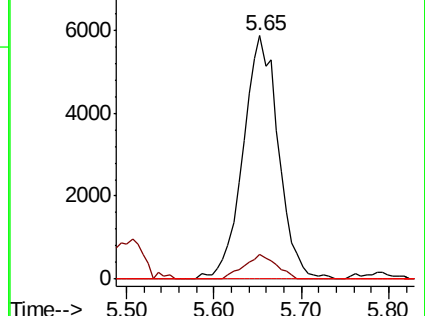
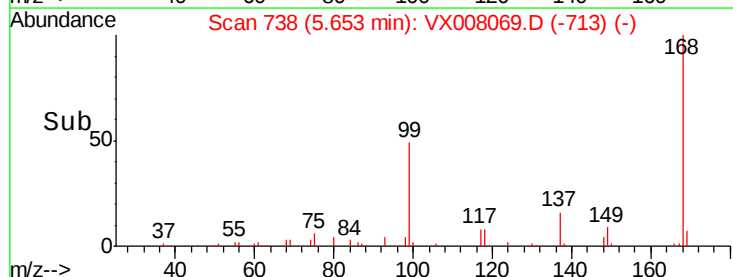
75 100

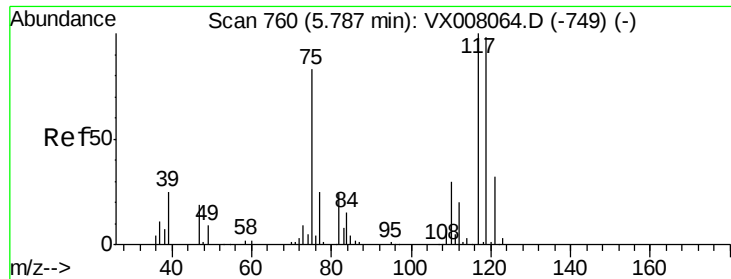
110 9.2 18.4 55.0#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.850 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

GATE-SOIL-BOX

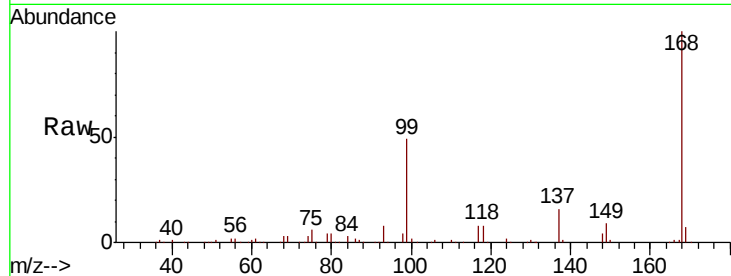
Tgt Ion:117 Resp: 22385

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

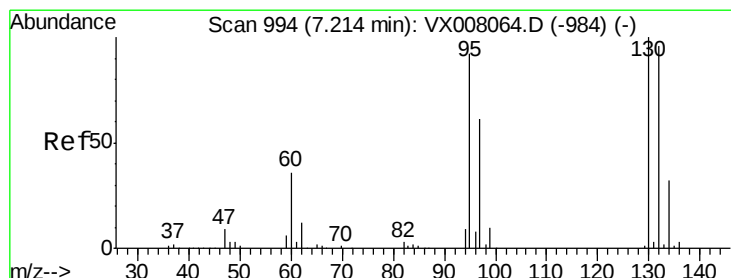
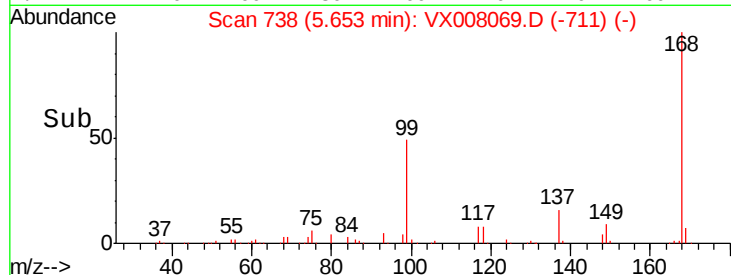
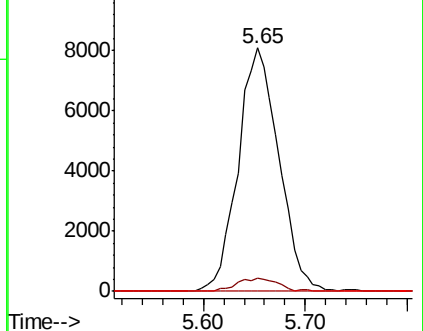
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 2.424 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX008069.D

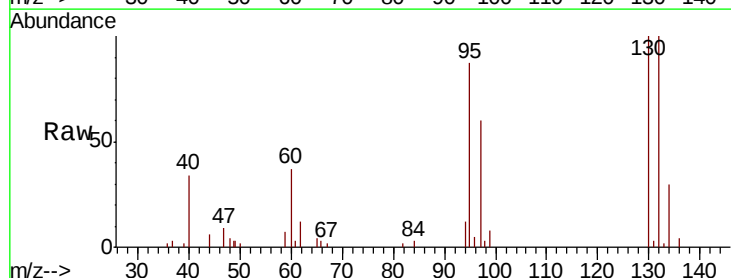
Acq: 14 Mar 2019 14:33

Tgt Ion:130 Resp: 7277

Ion Ratio Lower Upper

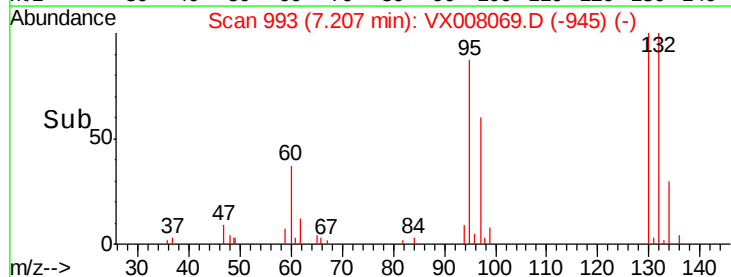
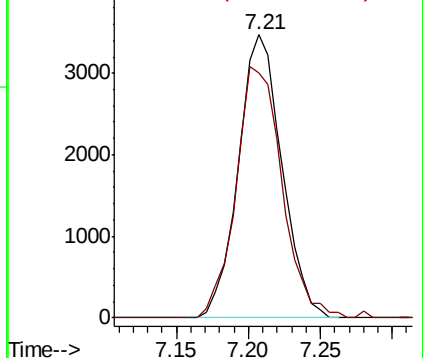
130 100

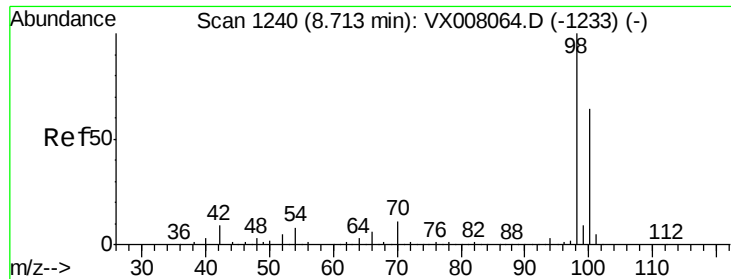
95 86.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.919 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

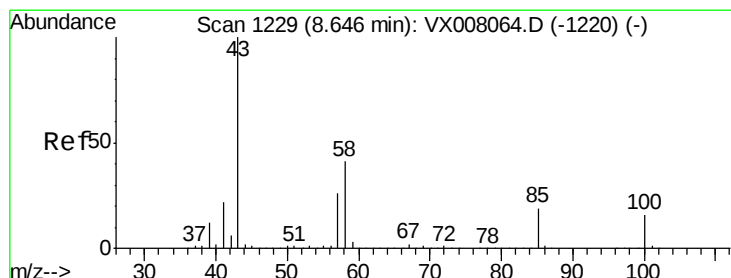
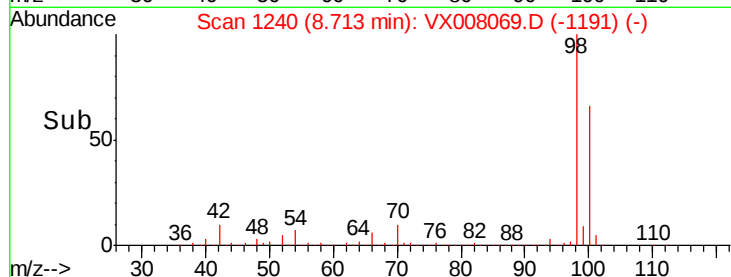
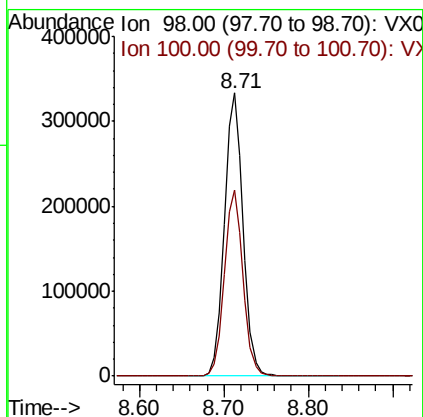
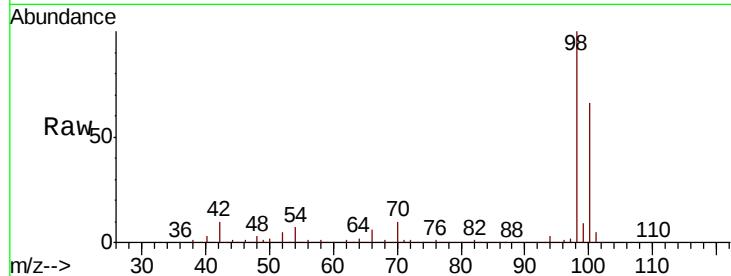
GATE-SOIL-BOX

Tgt Ion: 98 Resp: 506833

Ion Ratio Lower Upper

98 100

100 65.7 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.260 ug/l

RT: 8.66 min Scan# 1231

Delta R.T. 0.01 min

Lab File: VX008069.D

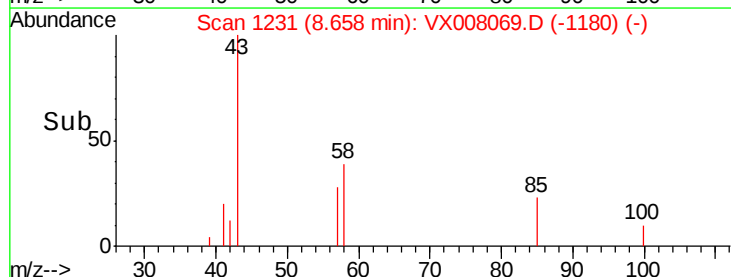
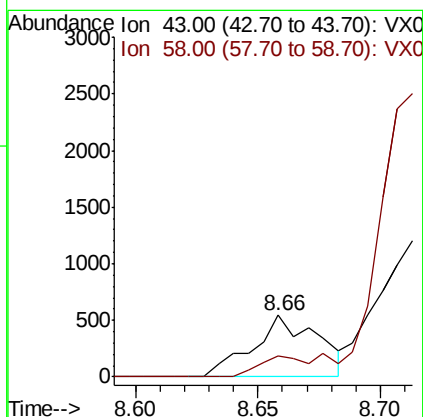
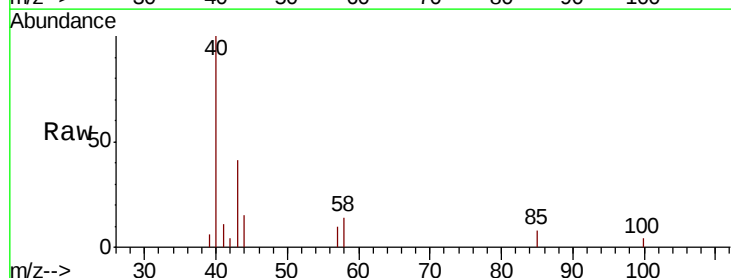
Acq: 14 Mar 2019 14:33

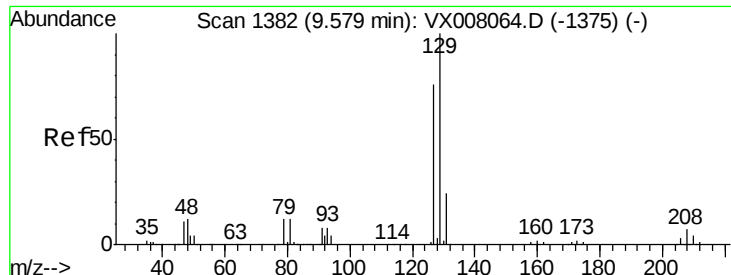
Tgt Ion: 43 Resp: 1008

Ion Ratio Lower Upper

43 100

58 23.8 31.3 46.9#





#60

Dibromochloromethane

Concen: 0.243 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampleId :

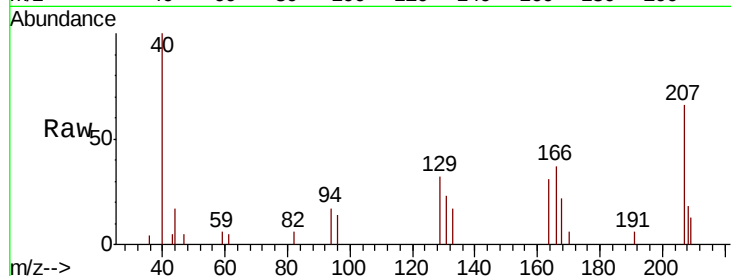
GATE-SOIL-BOX

Tgt Ion:129 Resp: 675

Ion Ratio Lower Upper

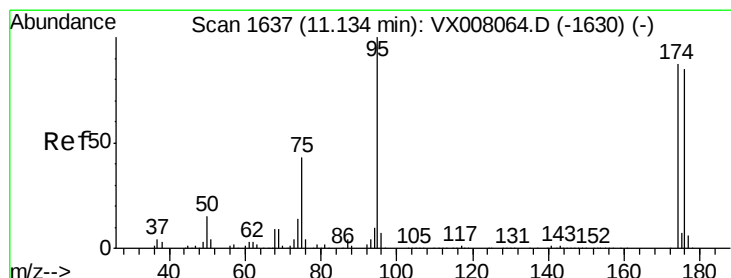
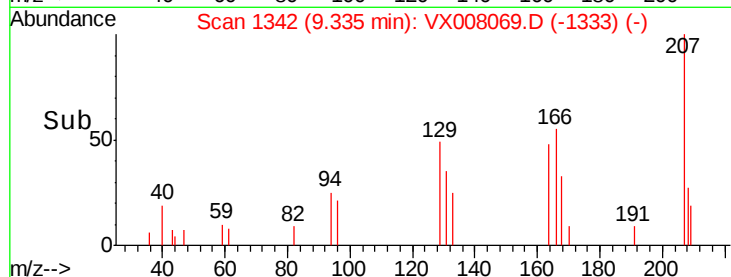
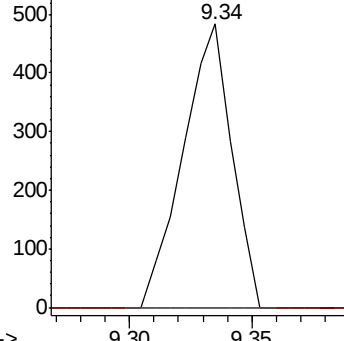
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 56.946 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

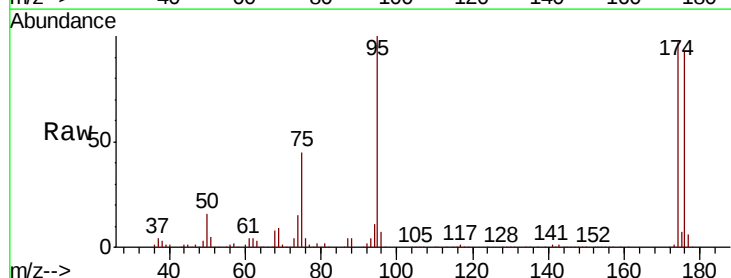
Tgt Ion: 95 Resp: 203056

Ion Ratio Lower Upper

95 100

174 94.6 0.0 182.8

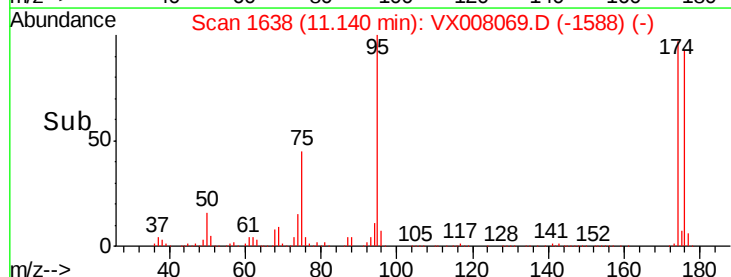
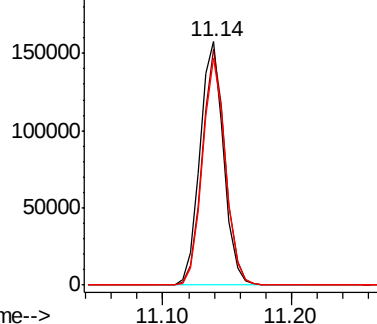
176 90.8 0.0 178.0

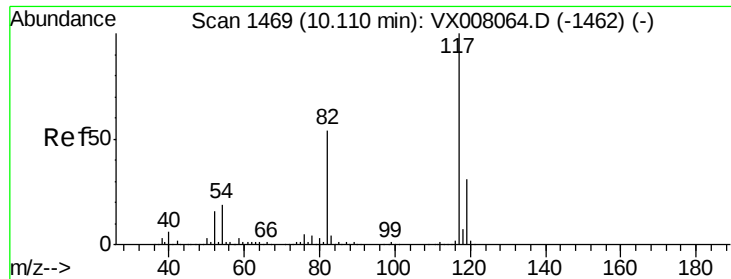


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

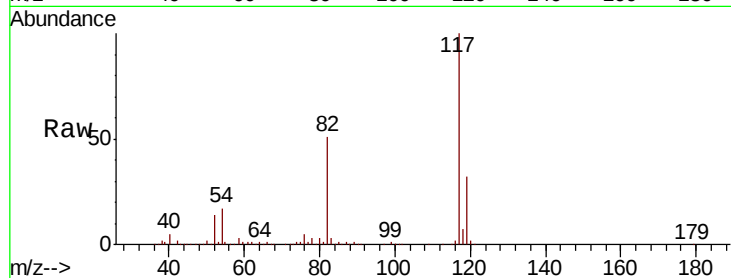




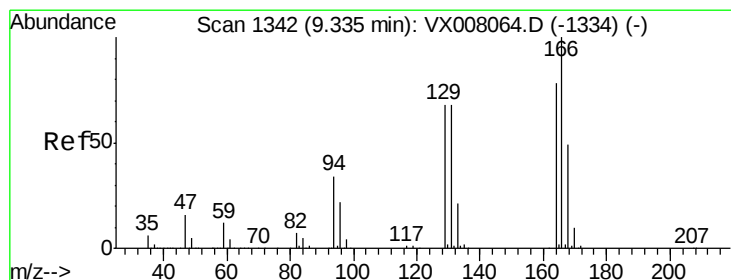
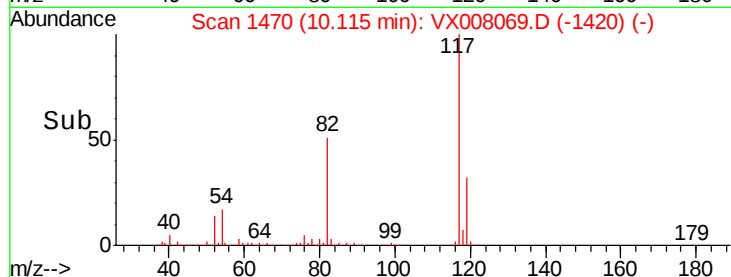
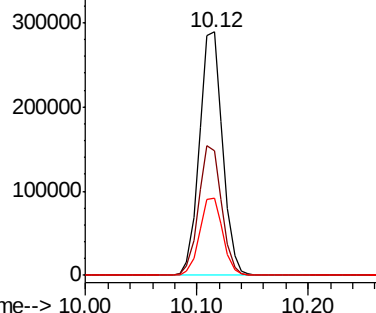
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008069.D
Acq: 14 Mar 2019 14:33

Instrument :
MSVOA_X
ClientSampleId :
GATE-SOIL-BOX

Tgt Ion:117 Resp: 413698
Ion Ratio Lower Upper
117 100
82 51.4 44.3 66.5
119 31.7 25.3 37.9



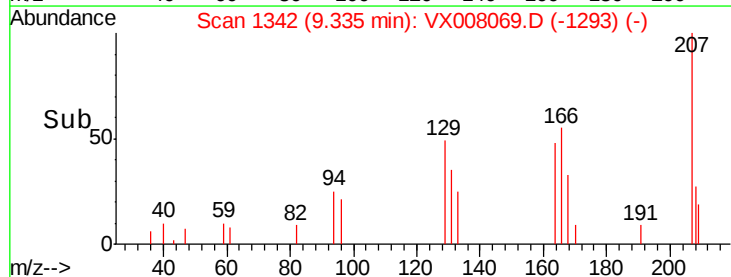
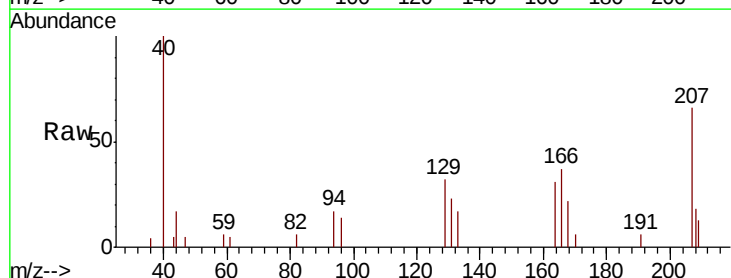
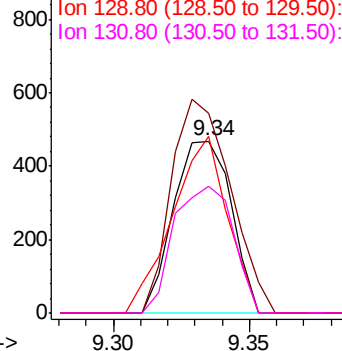
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

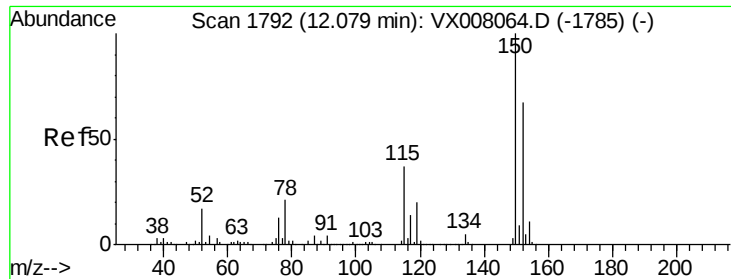


#64
Tetrachloroethene
Concen: 0.206 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008069.D
Acq: 14 Mar 2019 14:33

Tgt Ion:164 Resp: 689
Ion Ratio Lower Upper
164 100
166 116.2 103.4 155.0
129 103.0 72.2 108.4
131 73.8 69.4 104.2

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008069.D

Acq: 14 Mar 2019 14:33

Instrument :

MSVOA_X

ClientSampled :

GATE-SOIL-BOX

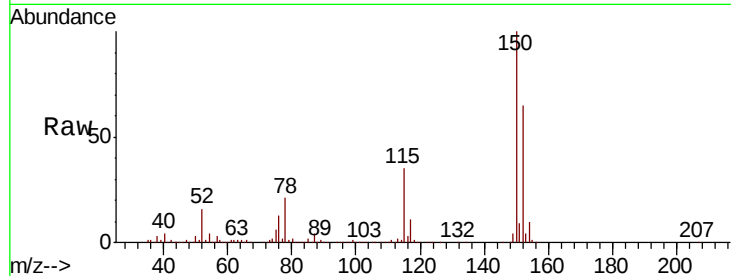
Tgt Ion:152 Resp: 229306

Ion Ratio Lower Upper

152 100

115 54.2 38.6 115.7

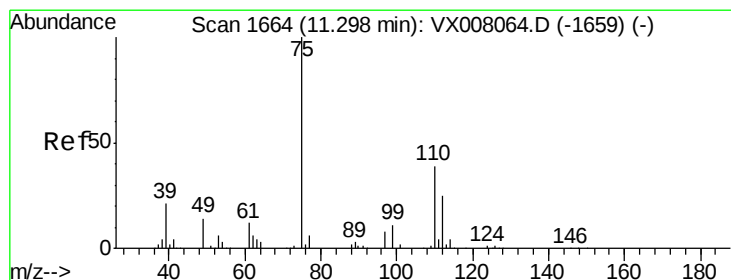
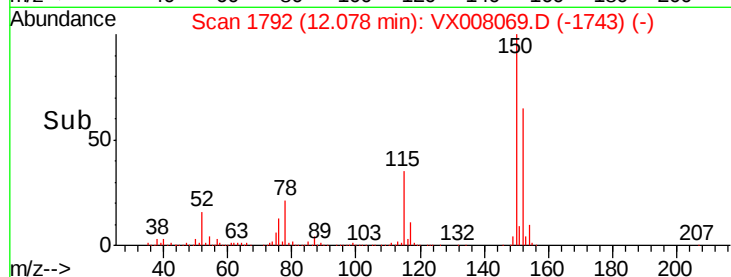
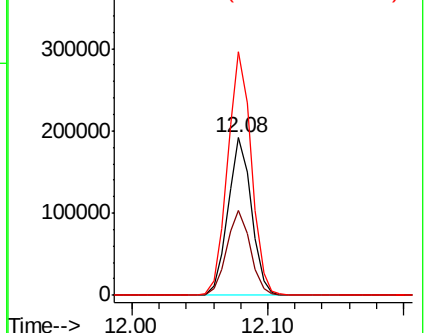
150 155.8 0.0 348.4



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



#76

1,2,3-Trichloropropane

Concen: 23.223 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX008069.D

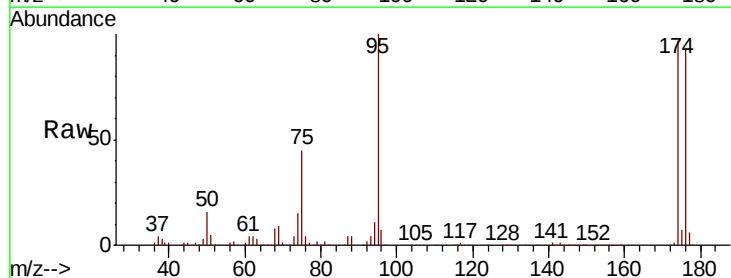
Acq: 14 Mar 2019 14:33

Tgt Ion: 75 Resp: 92482

Ion Ratio Lower Upper

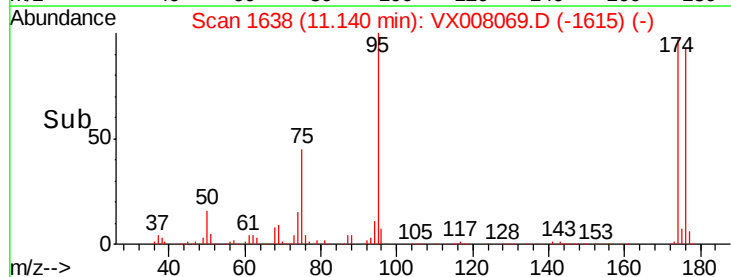
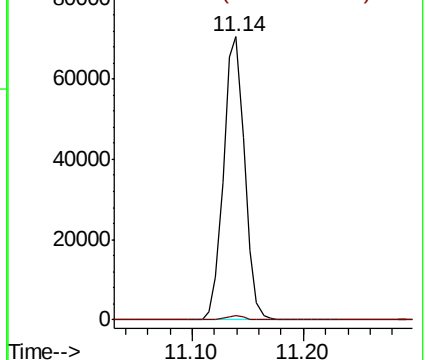
75 100

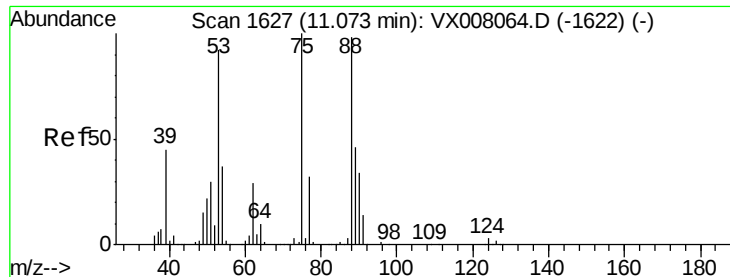
77 1.3 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

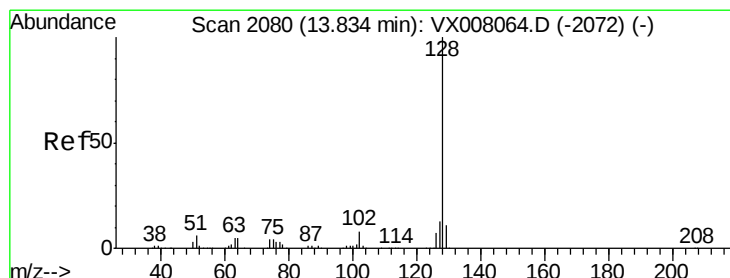
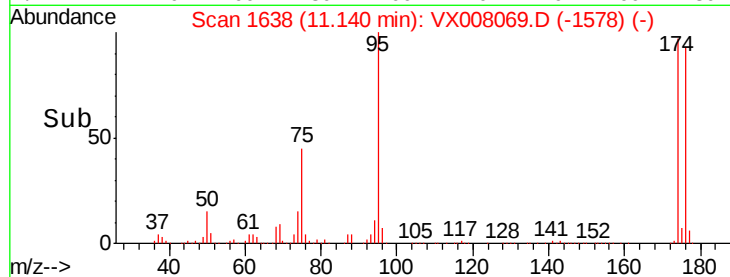
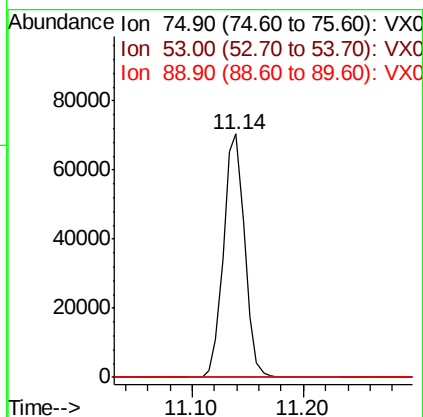
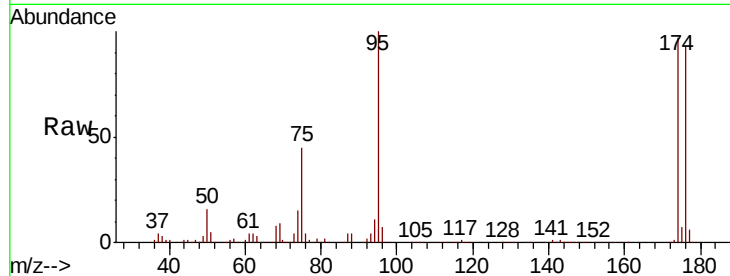




#81
trans-1,4-Dichloro-2-butene
Concen: 66.084 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: VX008069.D
Acq: 14 Mar 2019 14:33

Instrument :
MSVOA_X
ClientSampleId :
GATE-SOIL-BOX

Tgt Ion: 75 Resp: 92482
Ion Ratio Lower Upper
75 100
53 0.1 76.1 114.1#
89 0.1 36.3 54.5#



#95
Naphthalene
Concen: 0.529 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX008069.D
Acq: 14 Mar 2019 14:33

Tgt Ion: 128 Resp: 7456
Ion Ratio Lower Upper
128 100
127 13.3 10.3 15.5
129 11.9 8.7 13.1

