

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014264.D
 Acq On : 26 Dec 2019 13:15
 Operator : JC/SP
 Sample : K6420-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP

Quant Time: Dec 27 05:58:34 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	537416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	831111	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	744162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	330680	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	297157	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	5.49	113	250952	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	8.71	98	985628	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.14	95	331846	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	

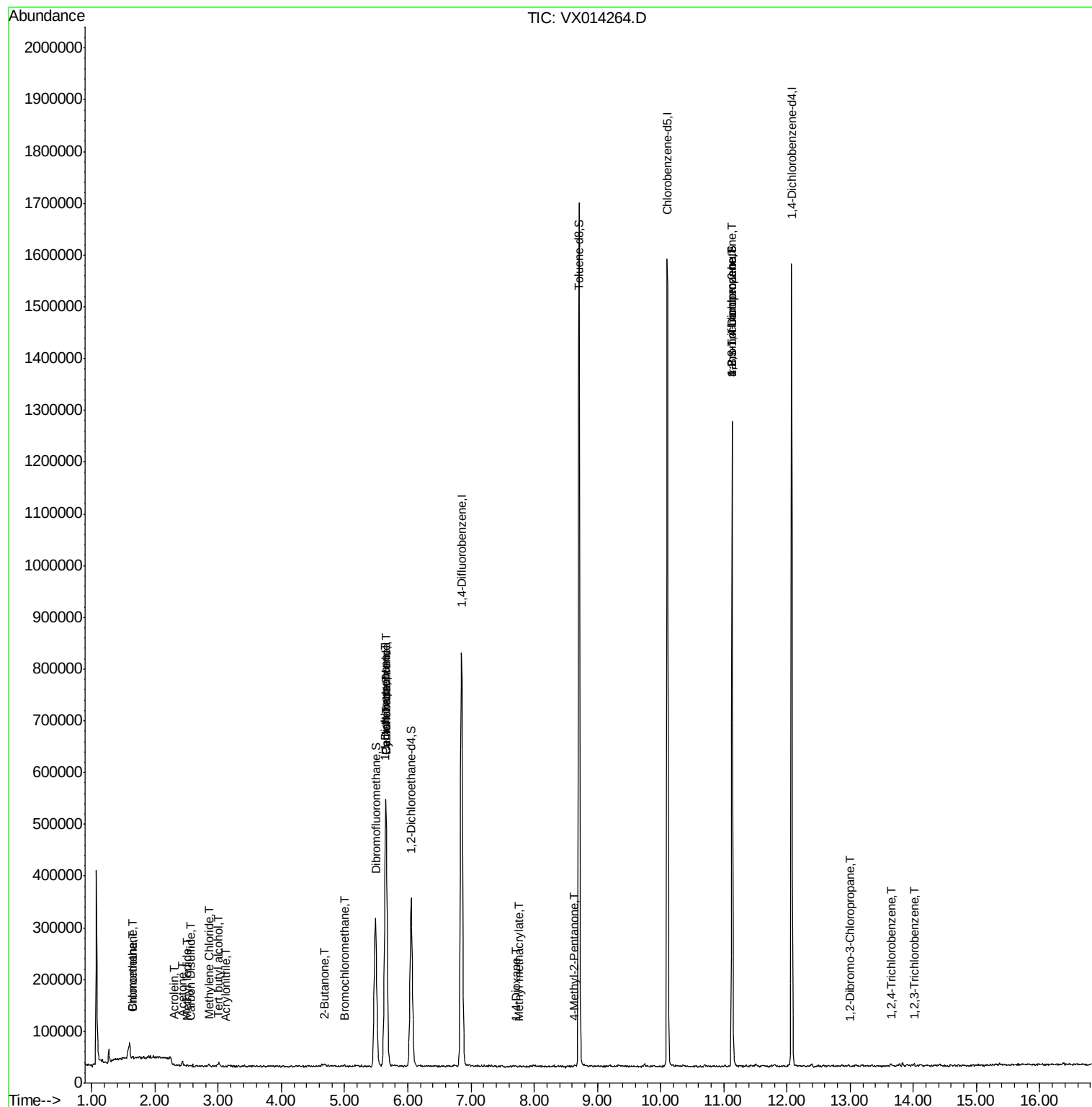
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1408	0.291	ug/l #	65
6) Chloroethane	1.66	64	2671	0.636	ug/l #	45
10) Methyl Iodide	2.50	142	3208	3.075	ug/l #	83
11) Tert butyl alcohol	3.01	59	4486	3.409	ug/l #	85
13) Acrolein	2.30	56	1208	1.603	ug/l #	14
15) Acrylonitrile	3.13	53	807	0.263	ug/l #	17
16) Acetone	2.43	43	10314	2.608	ug/l	94
17) Carbon Disulfide	2.56	76	3491	0.990	ug/l #	75
20) Methylene Chloride	2.84	84	1691	0.272	ug/l	94
25) 2-Butanone	4.68	43	2772	0.569	ug/l #	55
28) Bromochloromethane	5.01	49	130	0.486	ug/l #	1
31) Cyclohexane	5.65	56	9750	1.071	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	38435	5.040	ug/l #	42
38) Carbon Tetrachloride	5.65	117	45775	6.589	ug/l #	18
48) Methyl methacrylate	7.76	41	1424	0.209	ug/l #	55
49) 1,4-Dioxane	7.72	88	288	2.074	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1936	0.221	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	163058	22.713	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	163058	64.108	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.01	75	404	0.226	ug/l	57
93) 1,2,4-Trichlorobenzene	13.64	180	1588	0.216	ug/l #	82
96) 1,2,3-Trichlorobenzene	14.02	180	1731	0.239	ug/l #	78

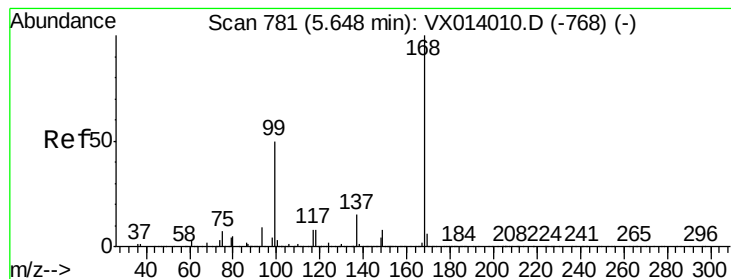
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampled :

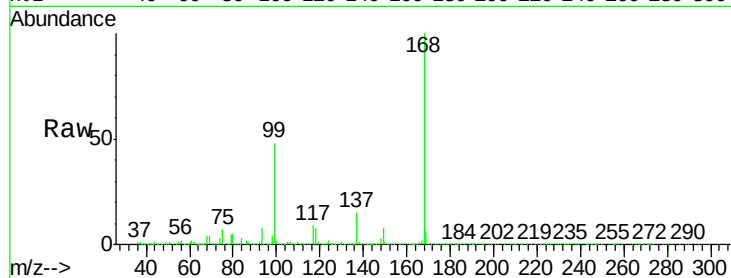
TRIP

Tgt Ion: 168 Resp: 537416

Ion Ratio Lower Upper

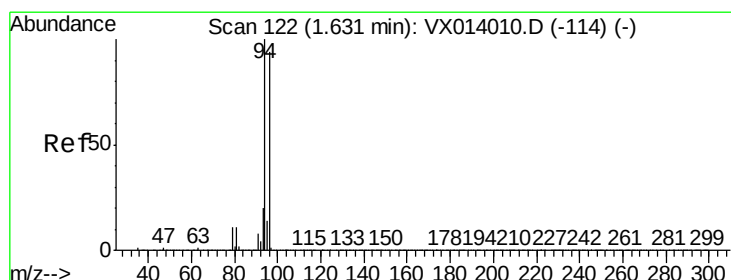
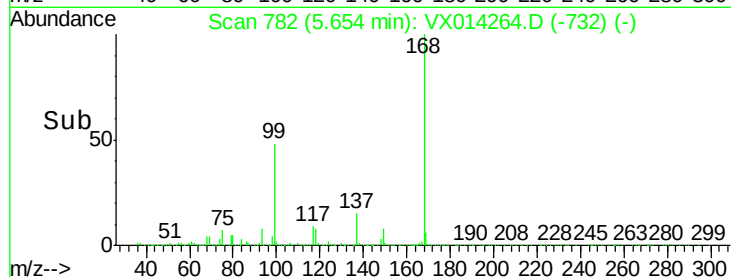
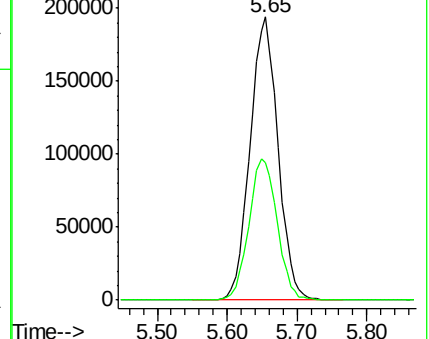
168 100

99 48.3 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: 0.291 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014264.D

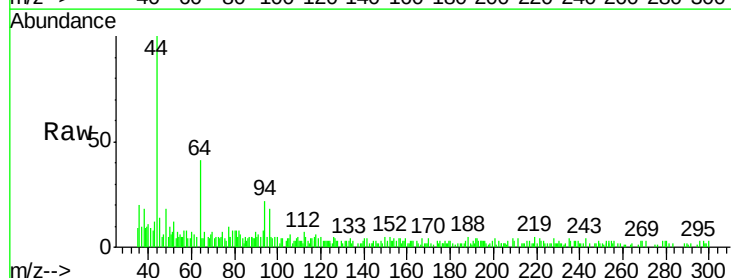
Acq: 26 Dec 2019 13:15

Tgt Ion: 94 Resp: 1408

Ion Ratio Lower Upper

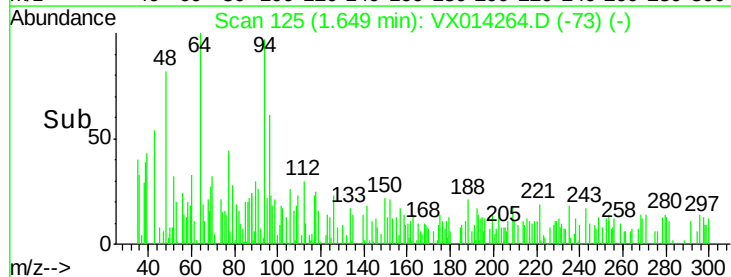
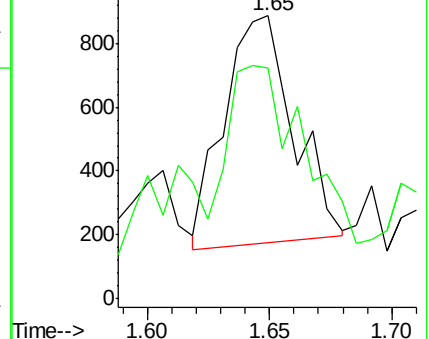
94 100

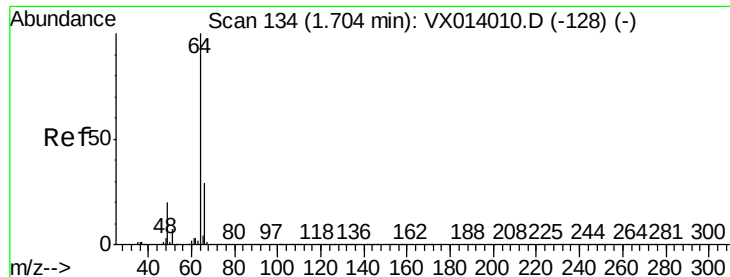
96 60.2 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.636 ug/l

RT: 1.66 min Scan# 126

Delta R.T. -0.05 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

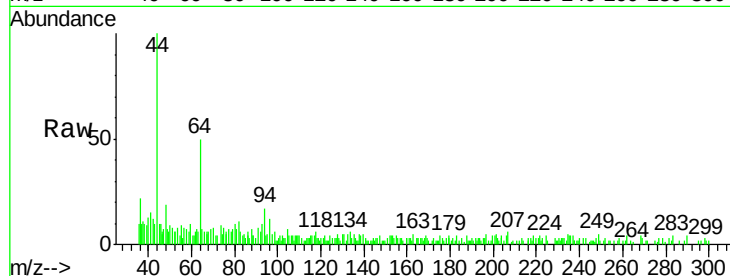
TRIP

Tgt Ion: 64 Resp: 2671

Ion Ratio Lower Upper

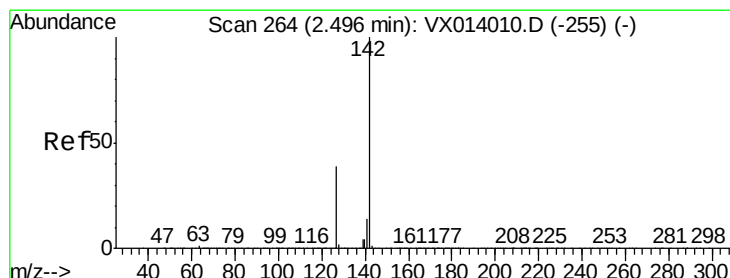
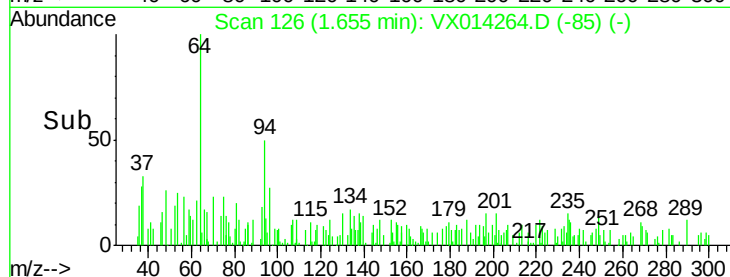
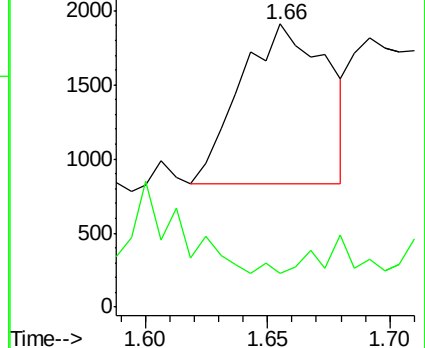
64 100

66 0.0 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 3.075 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

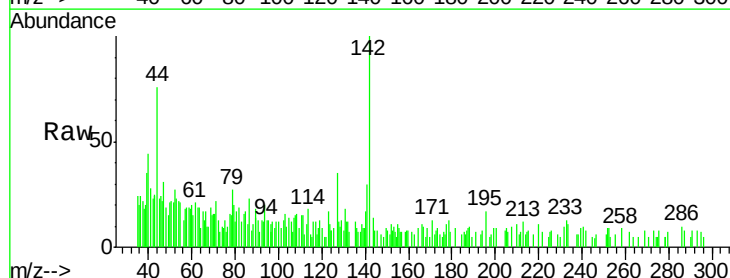
Tgt Ion: 142 Resp: 3208

Ion Ratio Lower Upper

142 100

127 50.4 31.6 47.4#

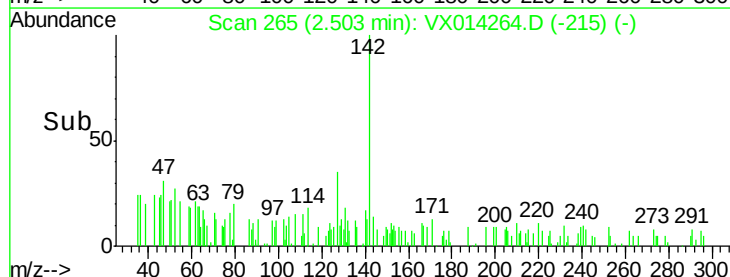
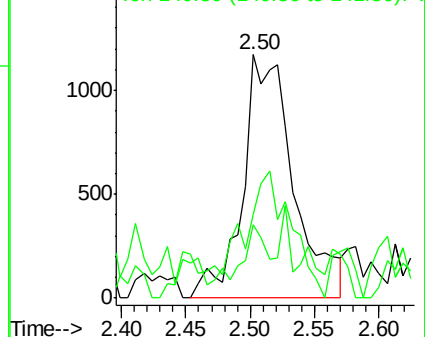
141 8.7 11.6 17.4#

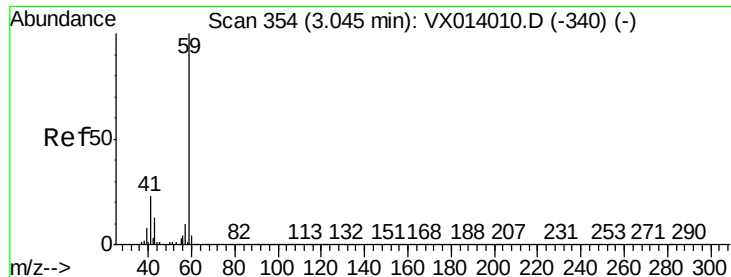


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



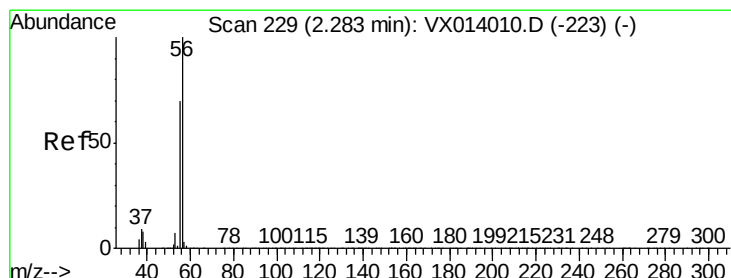
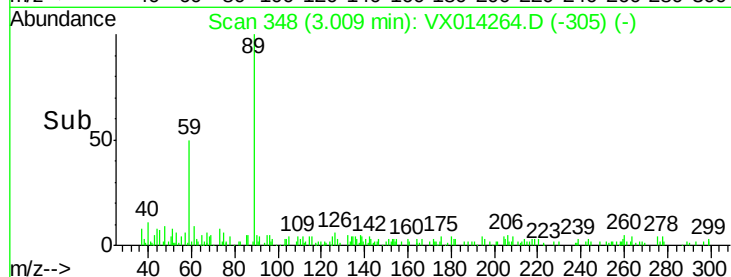
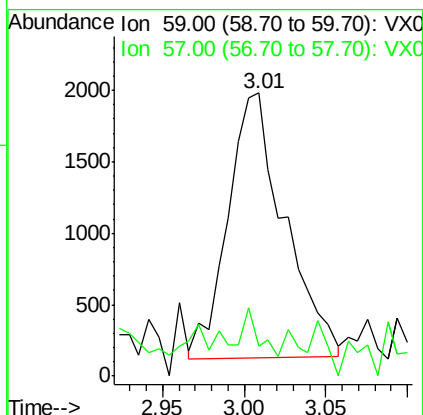
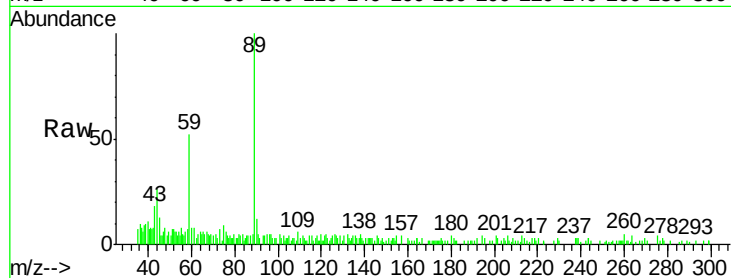


#11

Tert butyl alcohol
Concen: 3.409 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.04 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

Instrument :
MSVOA_X
ClientSampled :
TRIP

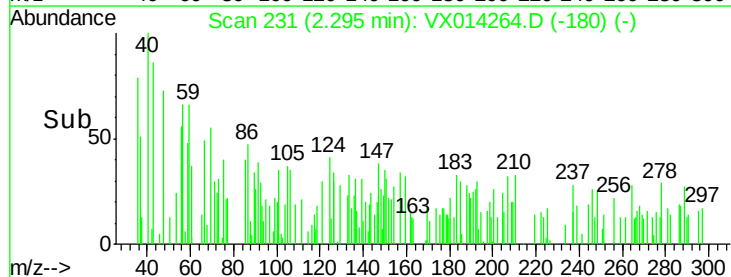
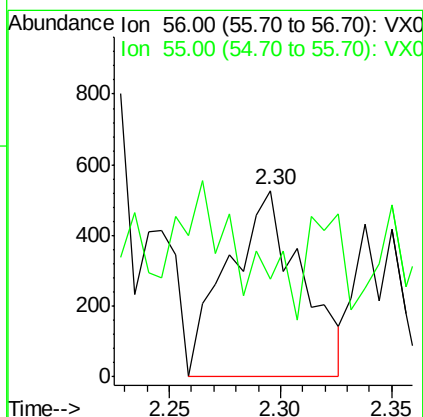
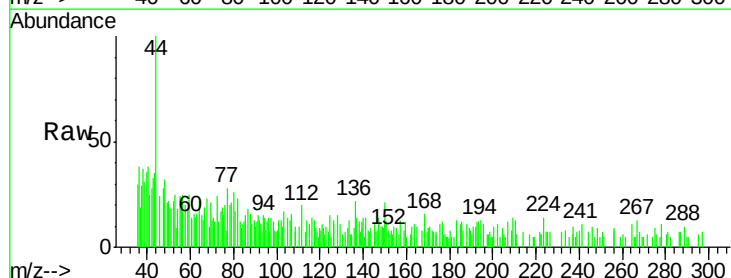
Tgt Ion: 59 Resp: 4486
Ion Ratio Lower Upper
59 100
57 4.9 8.4 12.6#

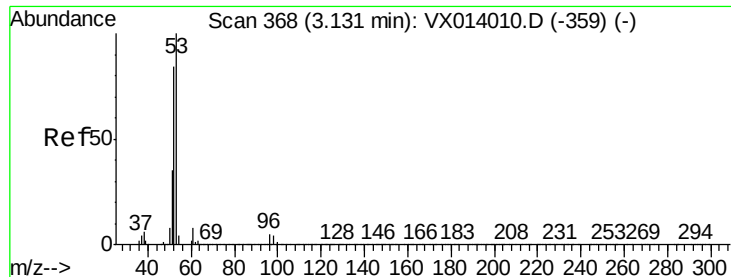


#13

Acrolein
Concen: 1.603 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

Tgt Ion: 56 Resp: 1208
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.263 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampled :

TRIP

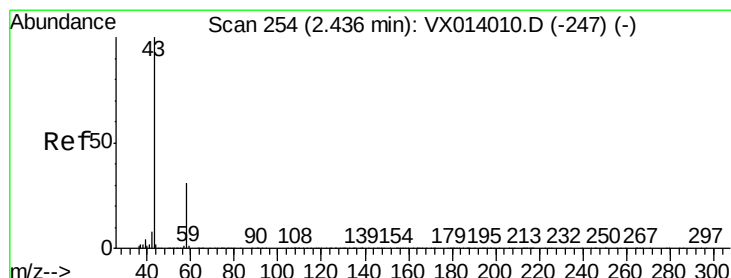
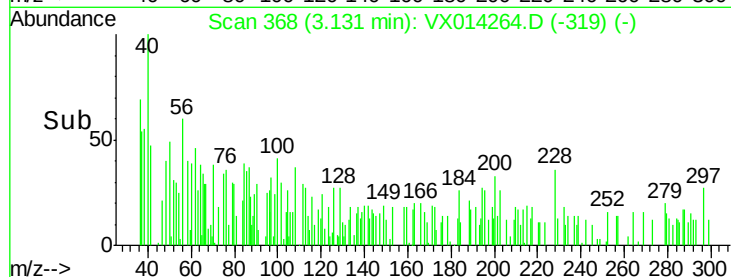
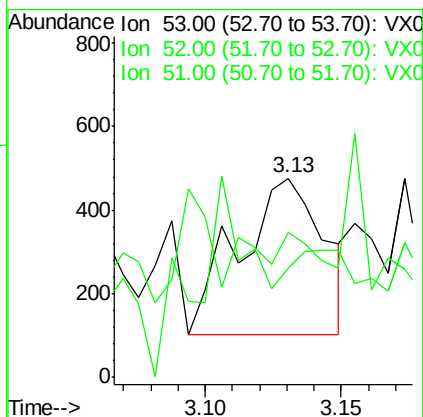
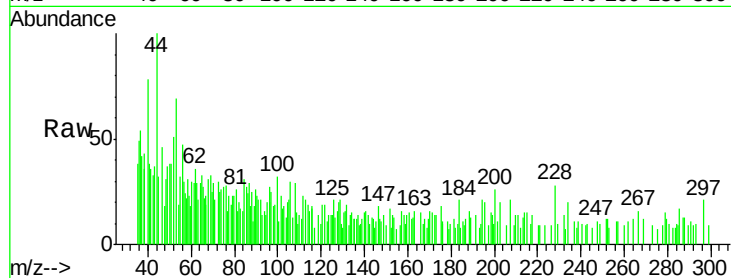
Tgt Ion: 53 Resp: 807

Ion Ratio Lower Upper

53 100

52 0.0 66.5 99.7#

51 0.0 28.1 42.1#



#16

Acetone

Concen: 2.608 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014264.D

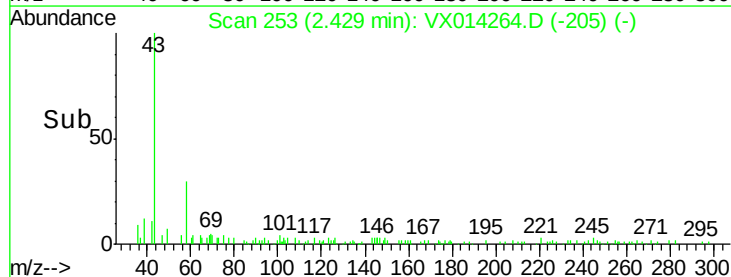
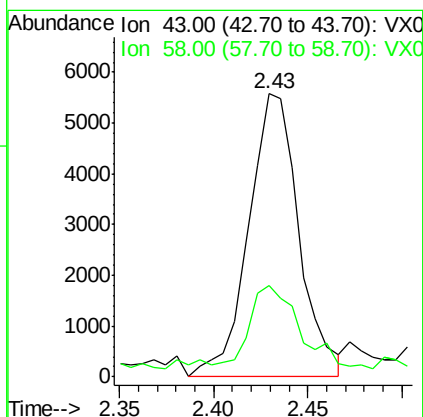
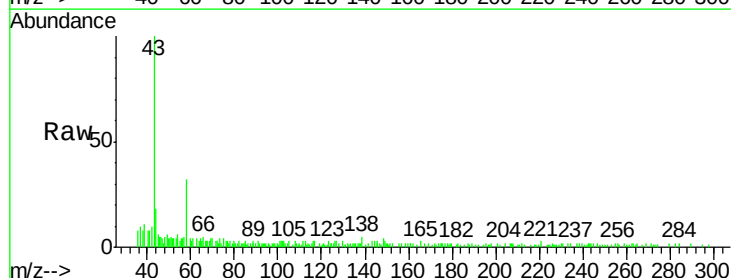
Acq: 26 Dec 2019 13:15

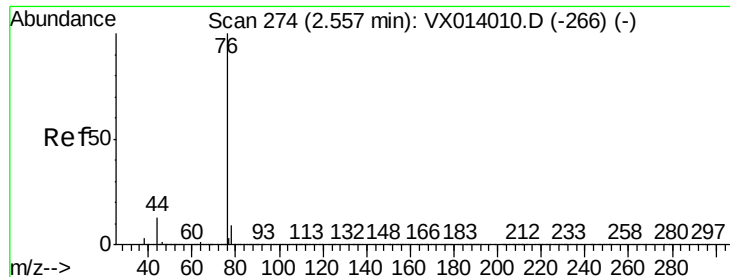
Tgt Ion: 43 Resp: 10314

Ion Ratio Lower Upper

43 100

58 27.9 24.9 37.3





#17

Carbon Disulfide

Concen: 0.990 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

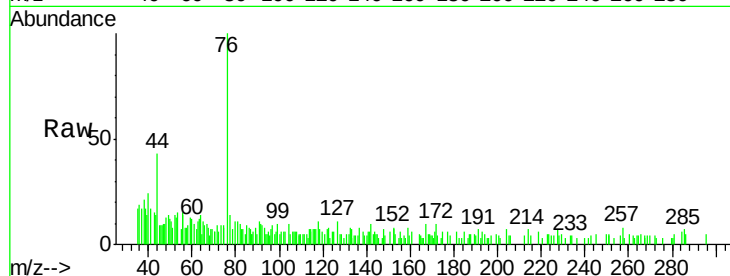
TRIP

Tgt Ion: 76 Resp: 3491

Ion Ratio Lower Upper

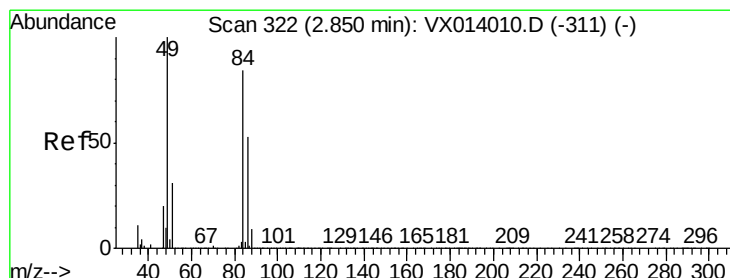
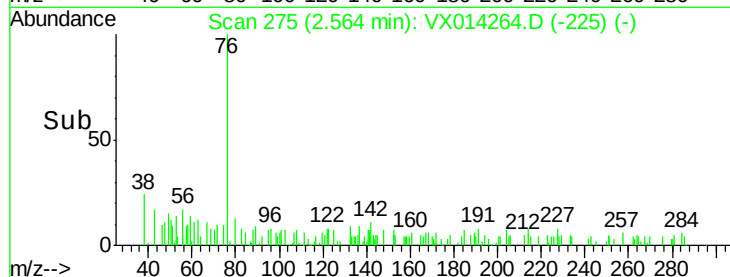
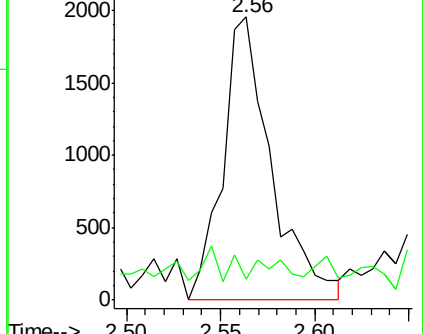
76 100

78 0.1 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.272 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Tgt Ion: 84 Resp: 1691

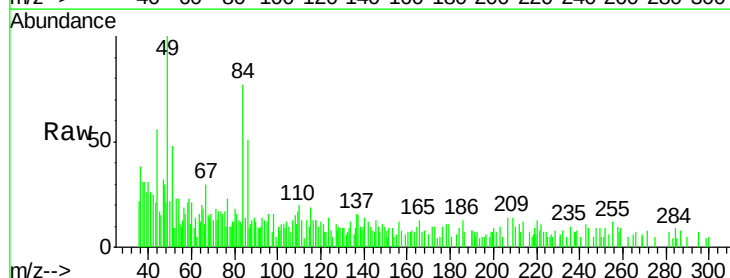
Ion Ratio Lower Upper

84 100

49 121.3 95.8 143.6

51 32.7 29.8 44.8

86 51.9 50.8 76.2

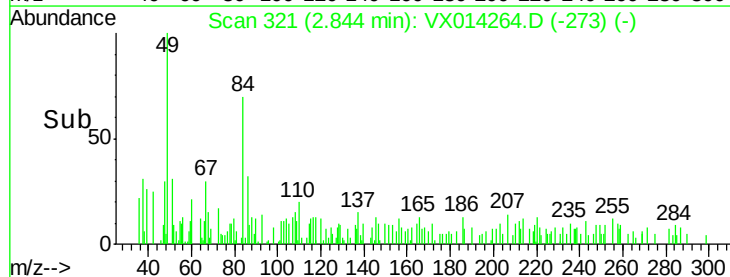
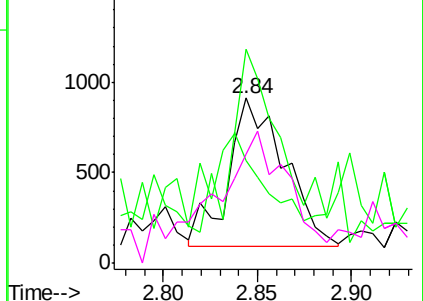


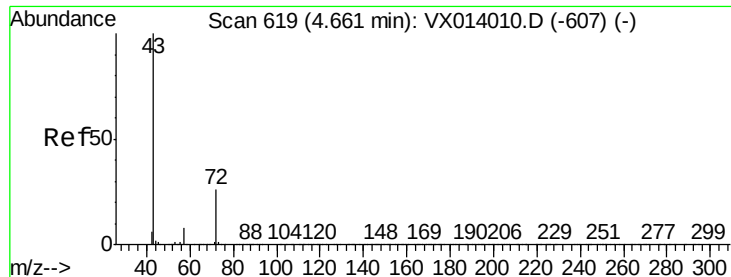
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.569 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampled :

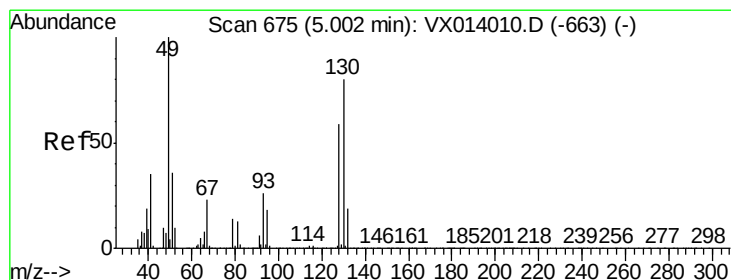
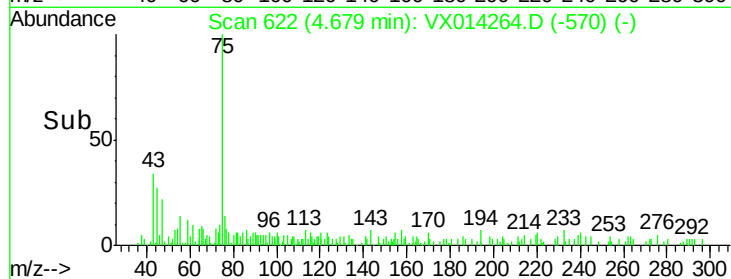
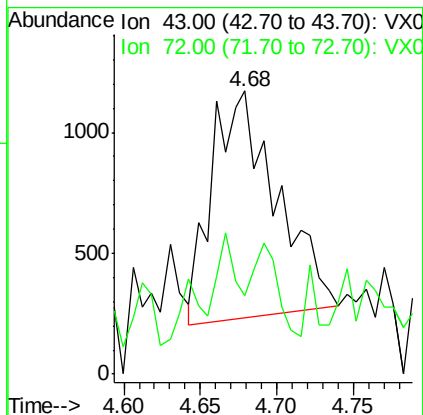
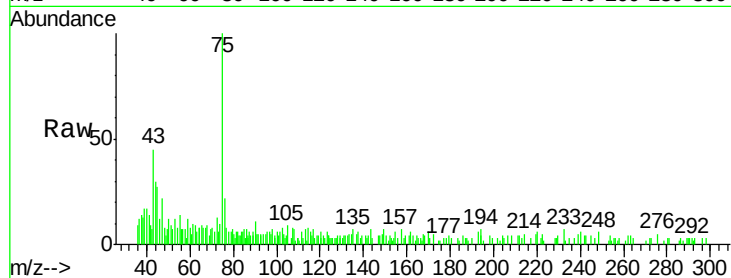
TRIP

Tgt Ion: 43 Resp: 2772

Ion Ratio Lower Upper

43 100

72 2.9 21.0 31.4#



#28

Bromochloromethane

Concen: 0.486 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

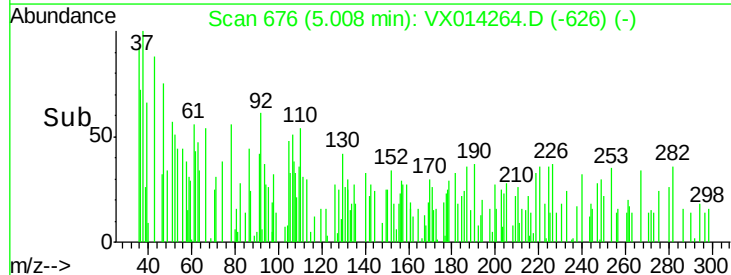
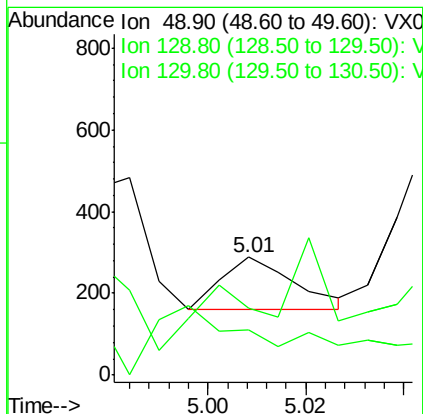
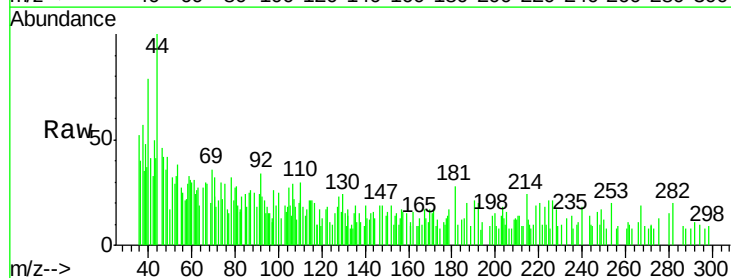
Tgt Ion: 49 Resp: 130

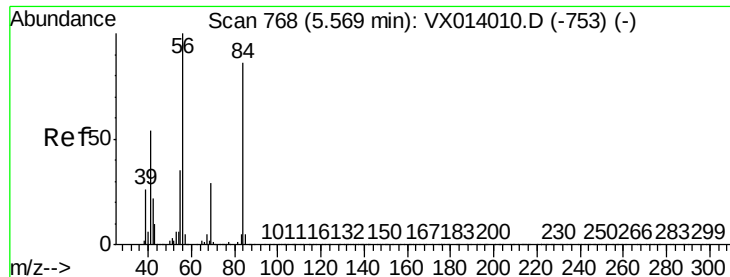
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 266.9 64.6 97.0#

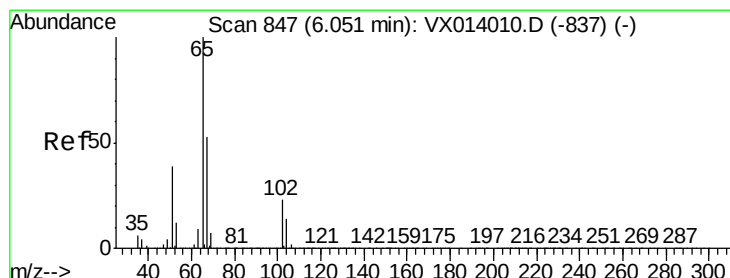
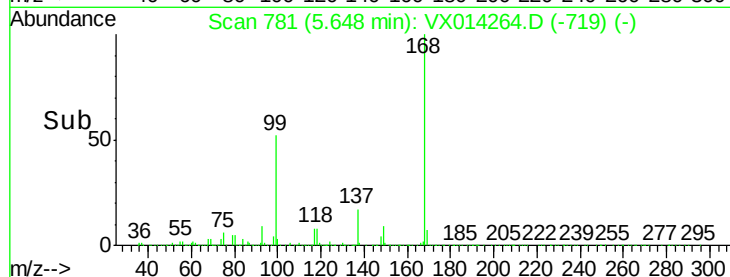
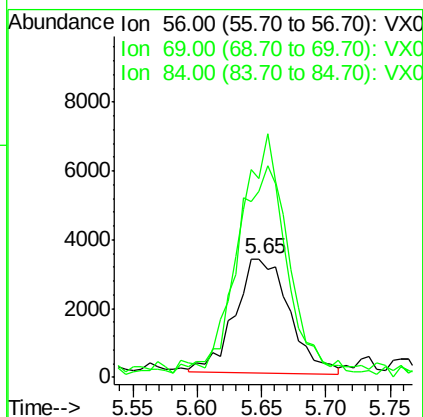
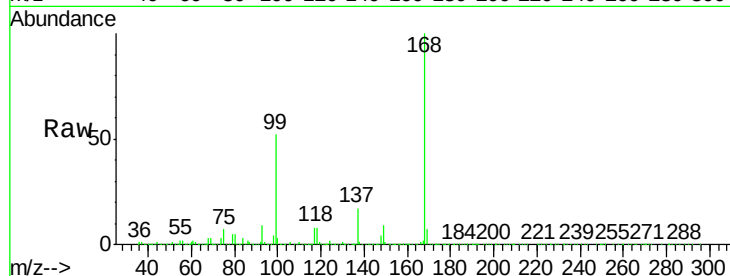




#31
Cyclohexane
Concen: 1.071 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

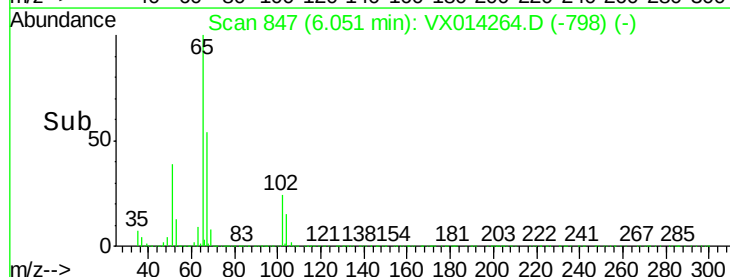
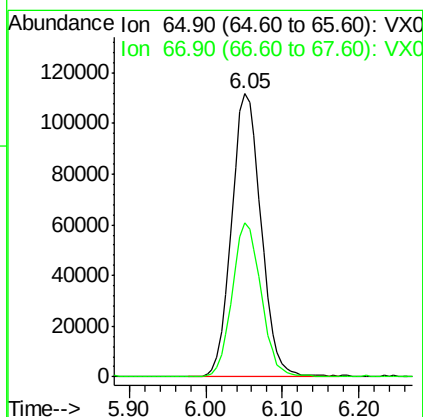
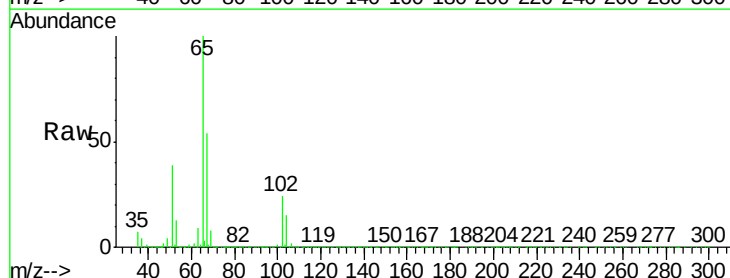
Instrument :
MSVOA_X
ClientSampleId :
TRIP

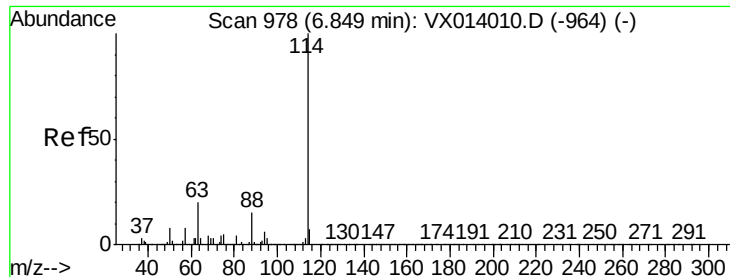
Tgt Ion: 56 Resp: 9750
Ion Ratio Lower Upper
56 100
69 170.5 23.2 34.8#
84 154.2 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 48.787 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

Tgt Ion: 65 Resp: 297157
Ion Ratio Lower Upper
65 100
67 53.8 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: VX014264.D

Acq: 26 Dec 2019 13:15

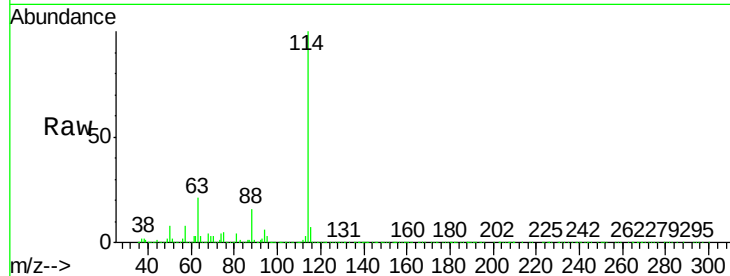
Instrument :

MSVOA_X

ClientSampleId :

TRIP

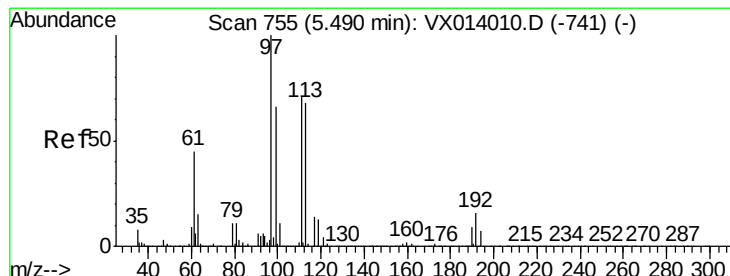
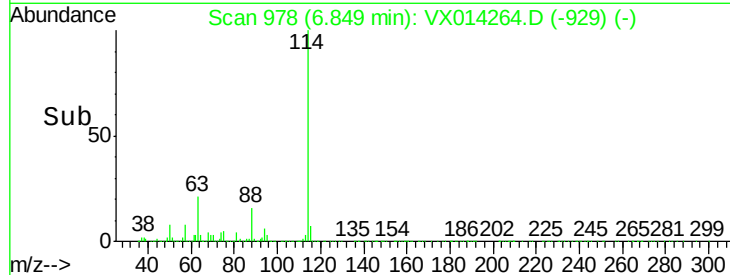
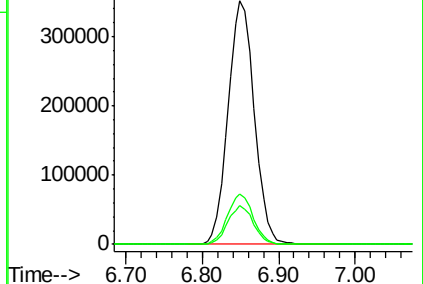
Tgt Ion:	114	Resp:	831111
Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	40.8
88	15.9	0.0	30.4



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: 49.671 ug/l

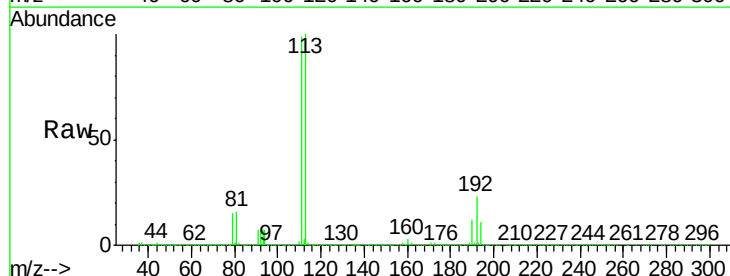
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

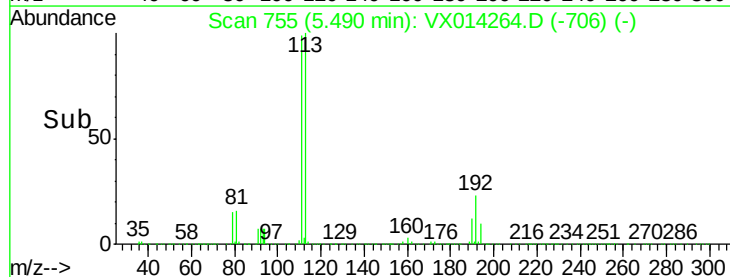
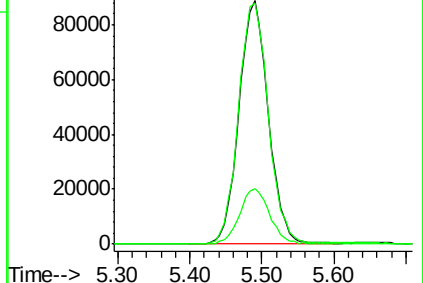
Tgt Ion:	113	Resp:	250952
Ion	Ratio	Lower	Upper
113	100		
111	100.0	82.0	123.0
192	23.3	19.3	28.9

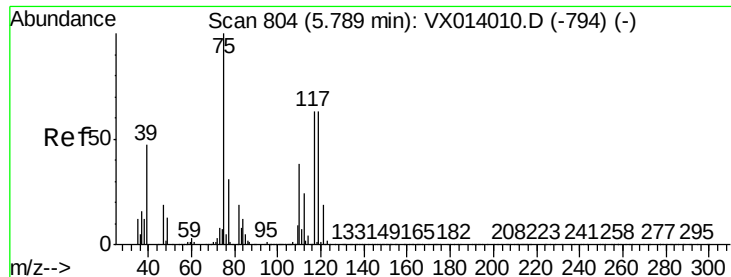


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

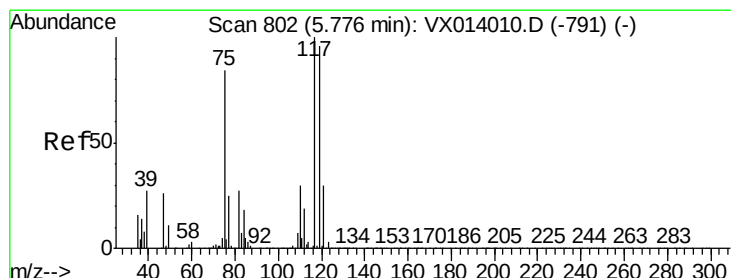
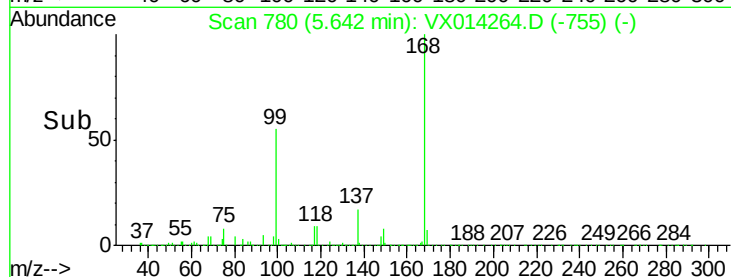
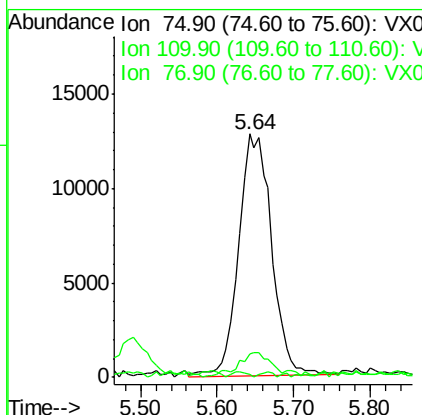
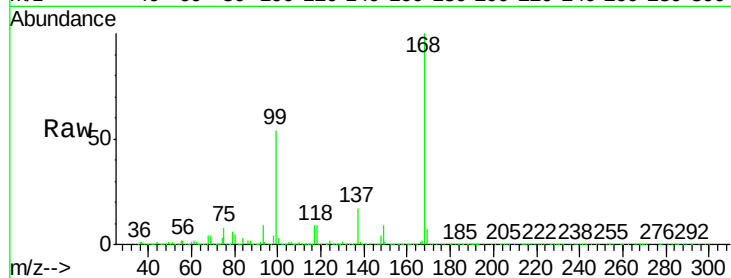




#36
 1,1-Dichloropropene
 Concen: 5.040 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX014264.D
 Acq: 26 Dec 2019 13:15

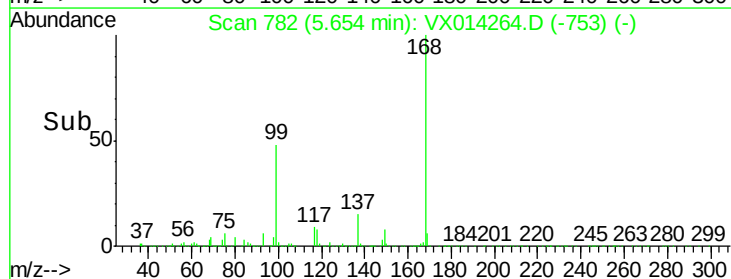
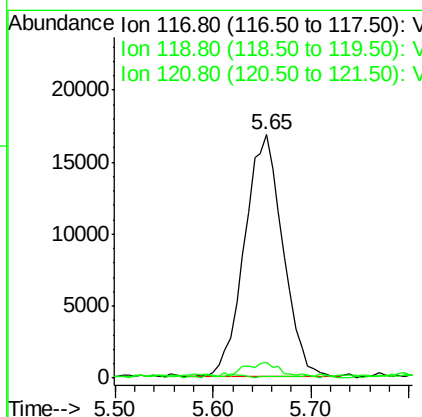
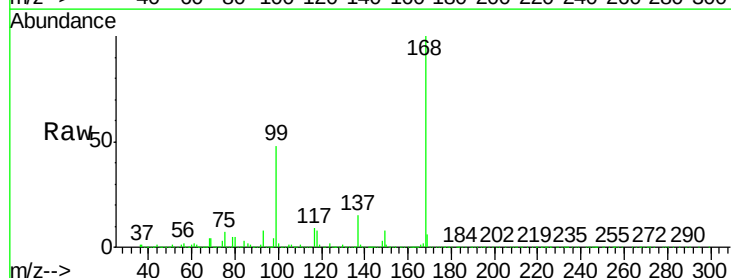
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP

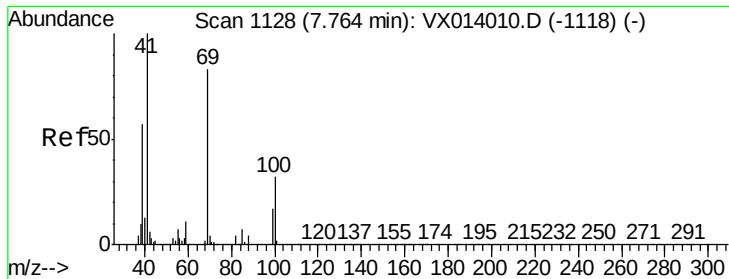
Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.3	54.9#
77	1.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.589 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014264.D
 Acq: 26 Dec 2019 13:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	76.2	114.4#
121	0.0	23.6	35.4#

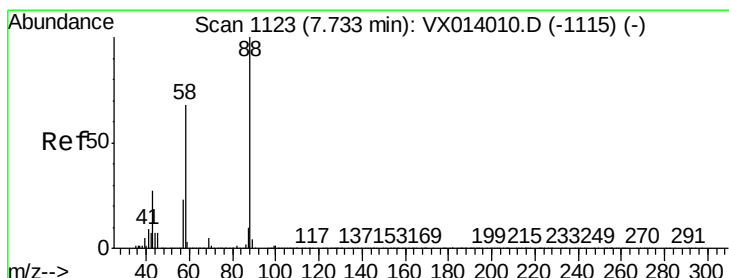
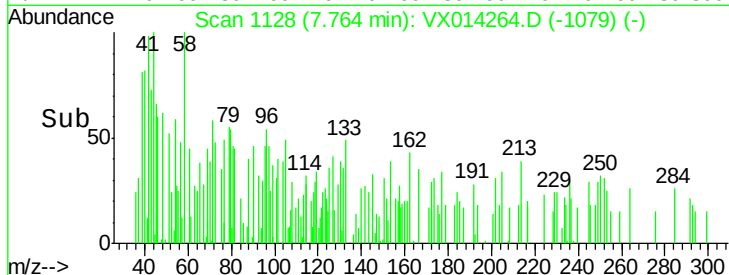
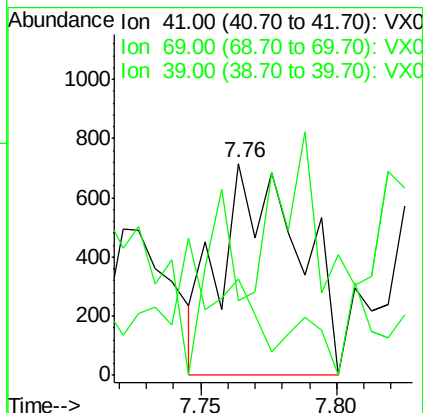
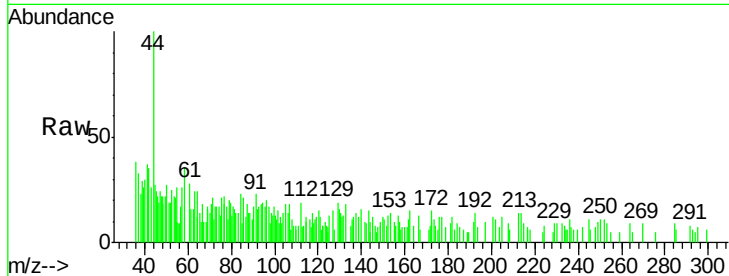




#48
Methyl methacrylate
Concen: 0.209 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

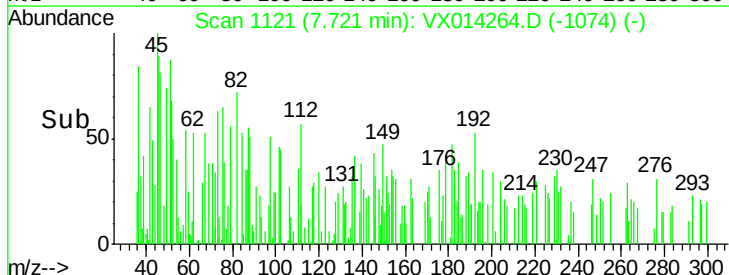
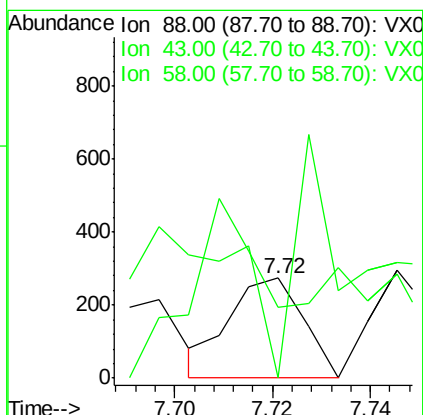
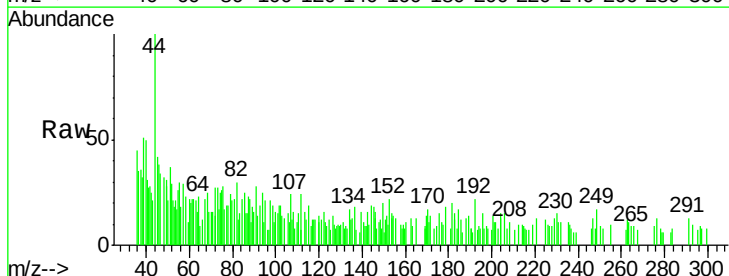
Instrument :
MSVOA_X
Client Sampled :
TRIP

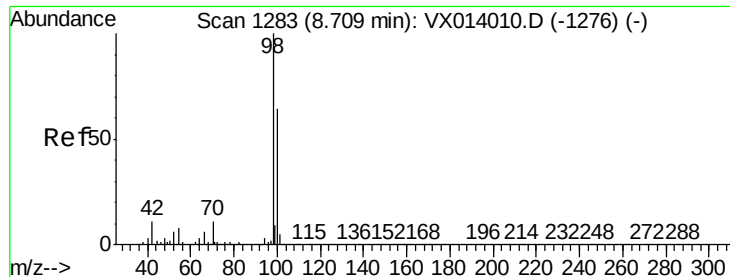
Tgt Ion: 41 Resp: 1424
Ion Ratio Lower Upper
41 100
69 34.1 65.8 98.6#
39 32.1 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.074 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

Tgt Ion: 88 Resp: 288
Ion Ratio Lower Upper
88 100
43 153.1 26.5 39.7#
58 119.1 56.8 85.2#





#50

Toluene-d8

Concen: 50.109 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

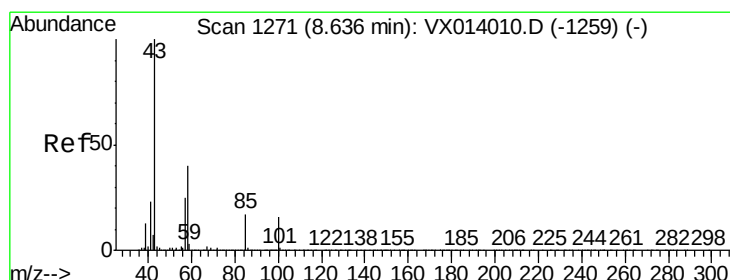
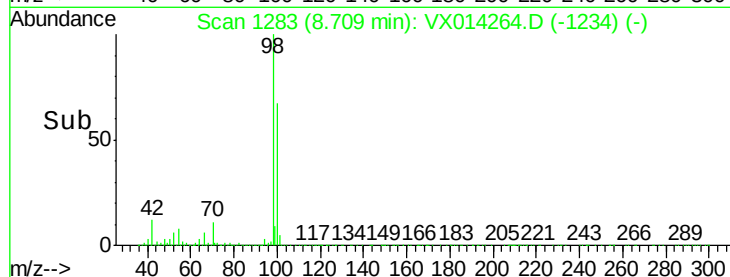
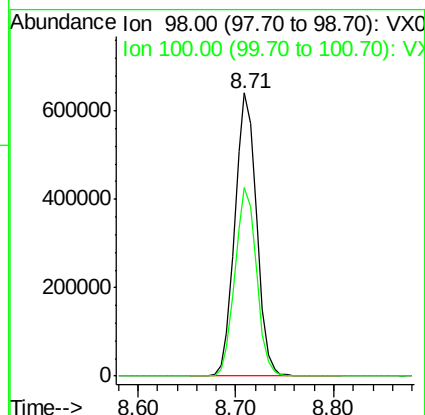
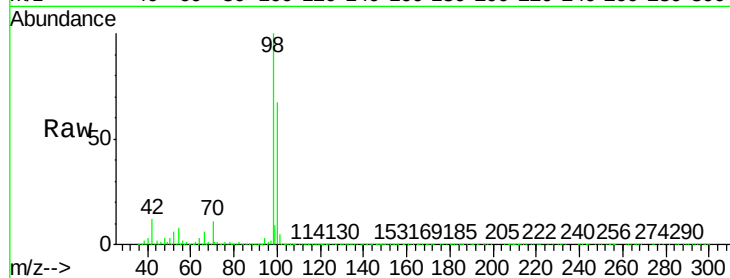
TRIP

Tgt Ion: 98 Resp: 985628

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.221 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014264.D

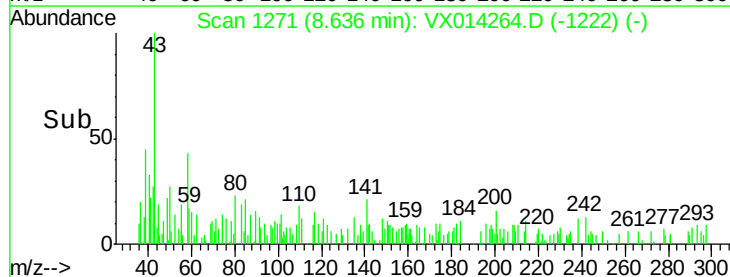
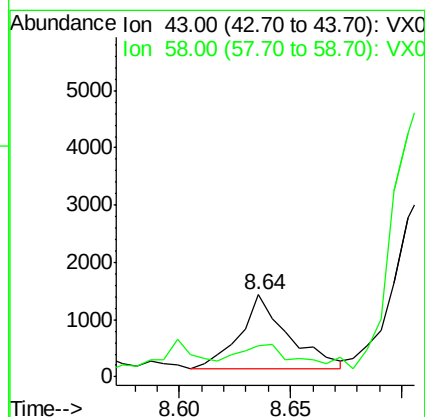
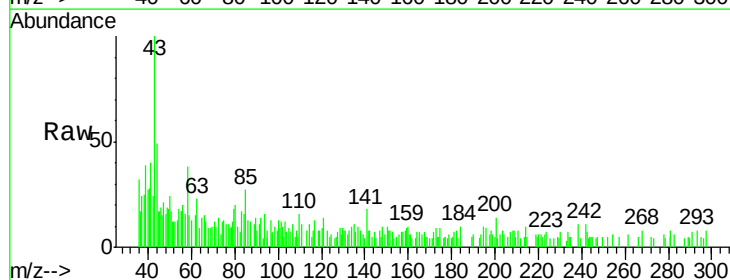
Acq: 26 Dec 2019 13:15

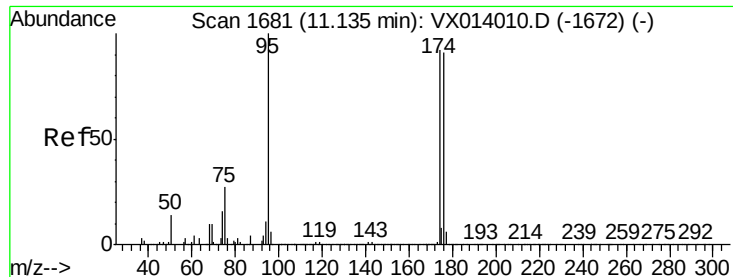
Tgt Ion: 43 Resp: 1936

Ion Ratio Lower Upper

43 100

58 37.6 32.2 48.2





#62

4-Bromofluorobenzene

Concen: 46.153 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

TRIP

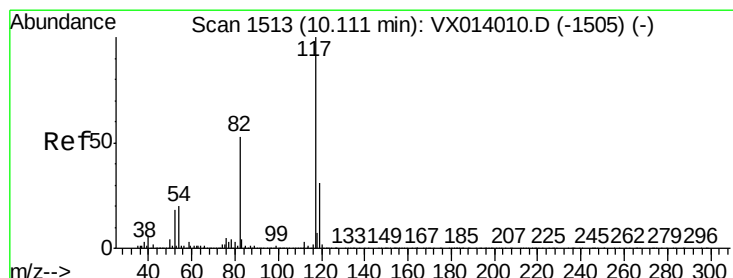
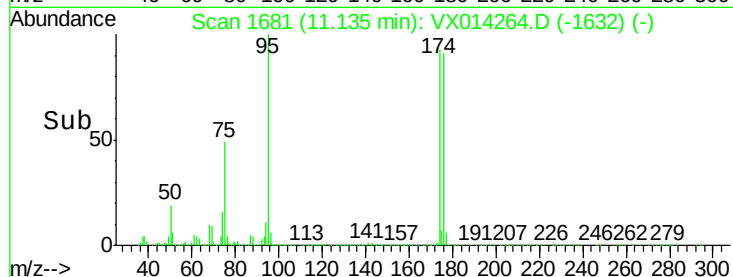
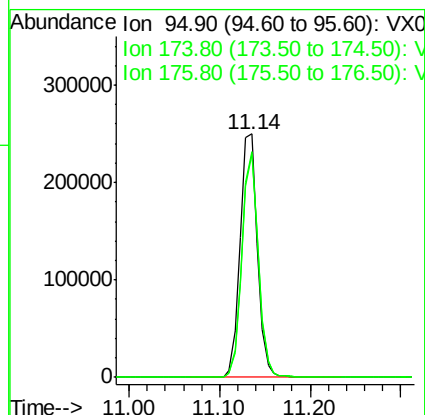
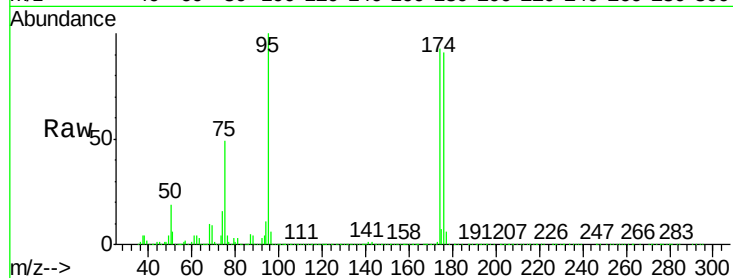
Tgt Ion: 95 Resp: 331846

Ion Ratio Lower Upper

95 100

174 88.2 0.0 175.8

176 86.3 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: VX014264.D

Acq: 26 Dec 2019 13:15

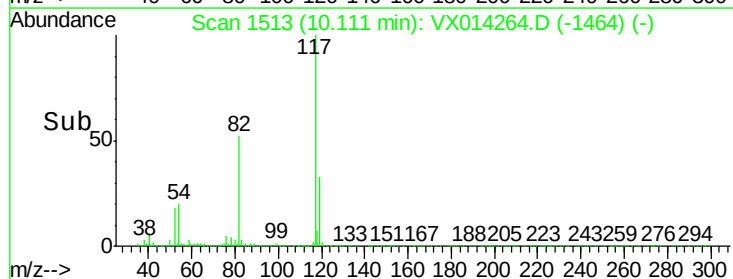
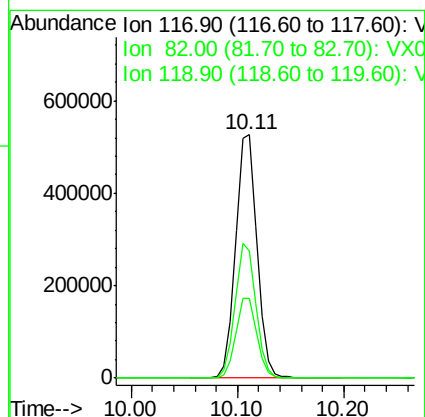
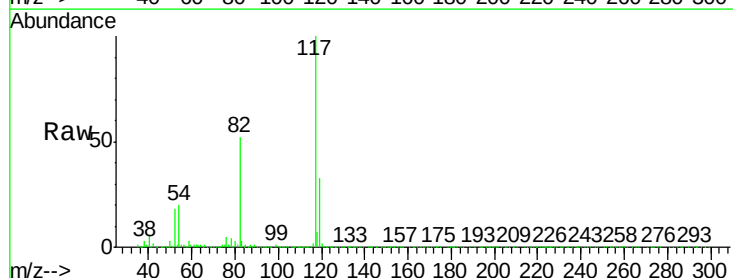
Tgt Ion: 117 Resp: 744162

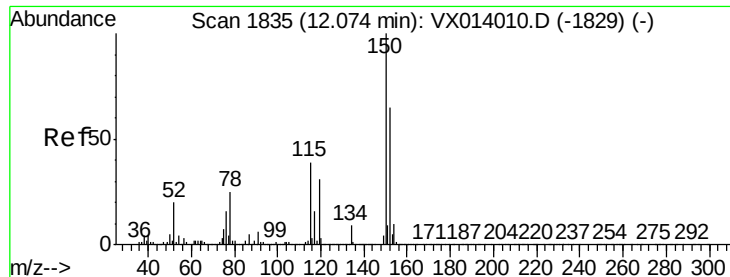
Ion Ratio Lower Upper

117 100

82 52.4 42.2 63.4

119 32.5 25.1 37.7



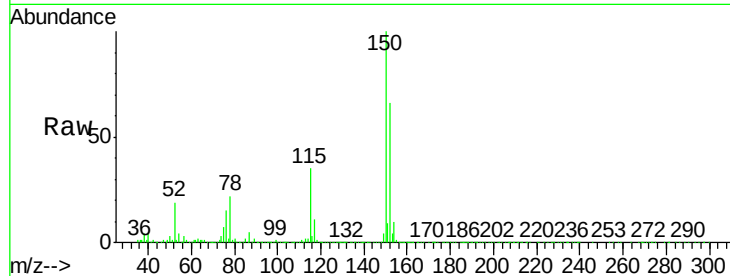


#72

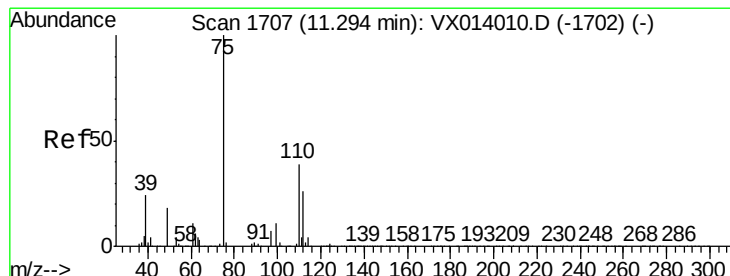
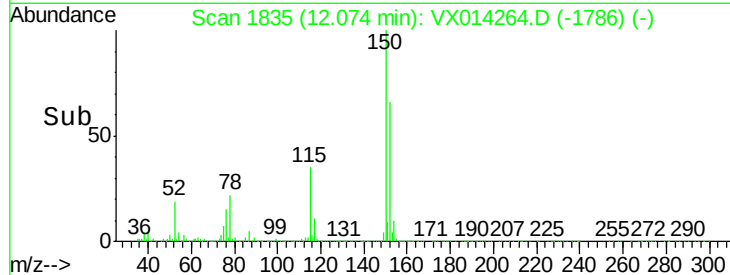
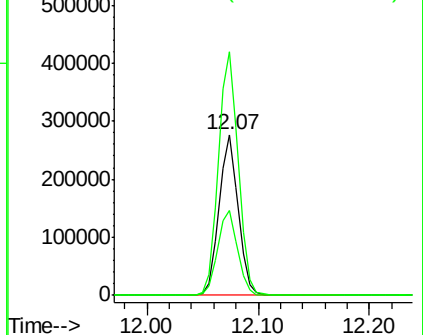
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

Instrument :
MSVOA_X
ClientSampled :
TRIP

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.1	38.3	114.9
150	154.8	0.0	345.4



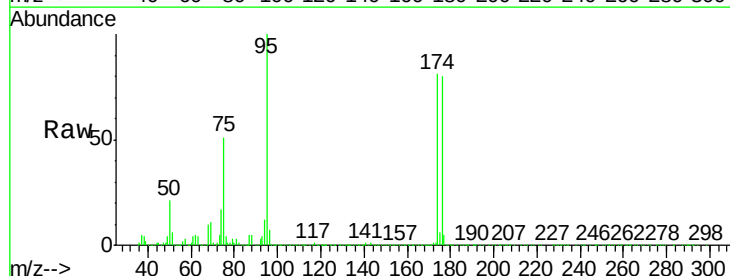
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



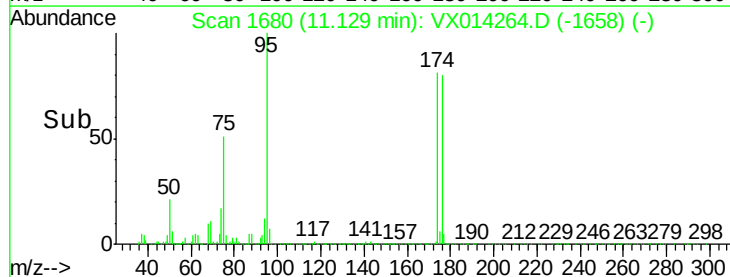
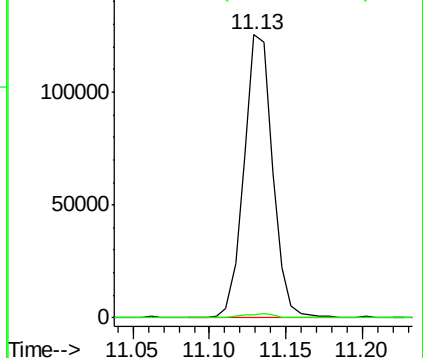
#76

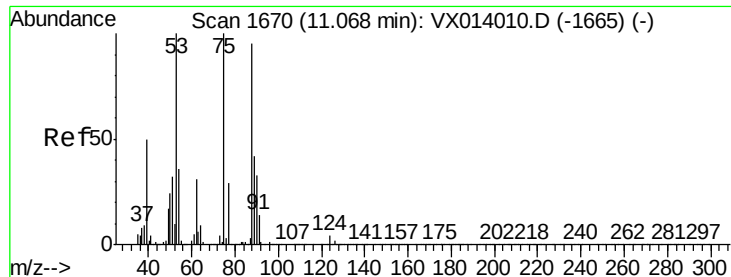
1,2,3-Trichloropropane
Concen: 22.713 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014264.D
Acq: 26 Dec 2019 13:15

Tgt 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: 64.108 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

TRIP

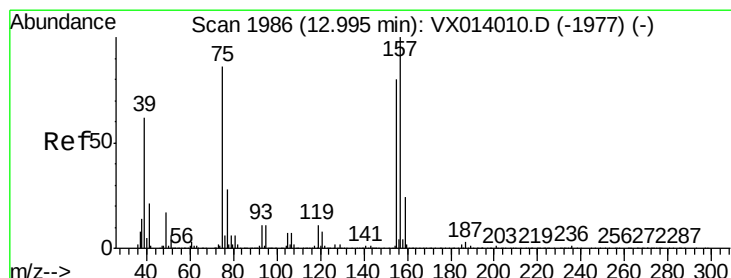
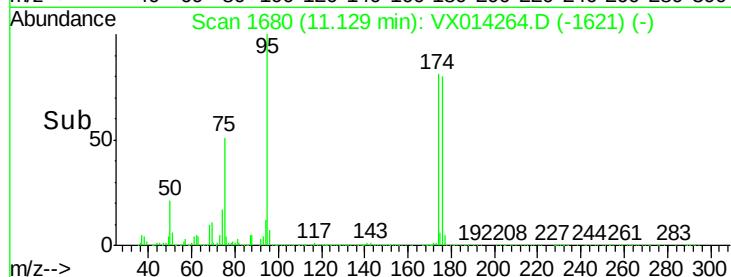
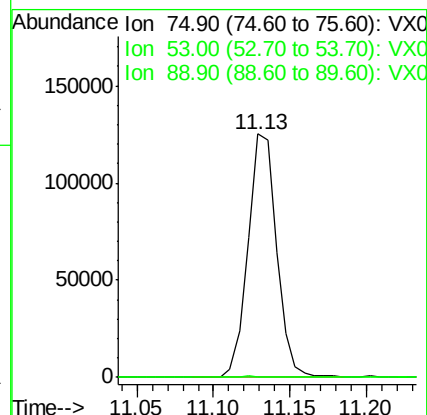
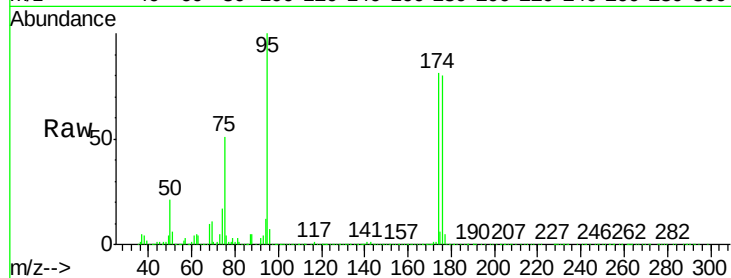
Tgt Ion: 75 Resp: 163058

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.1 34.6 51.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.226 ug/l

RT: 13.01 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

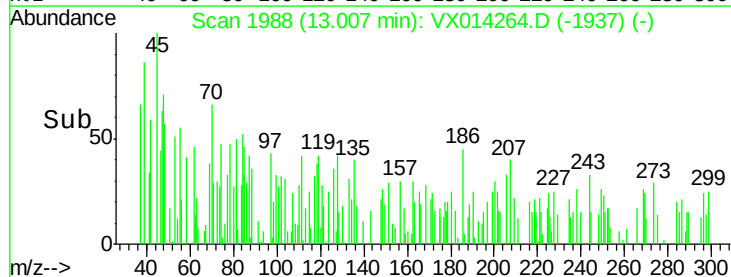
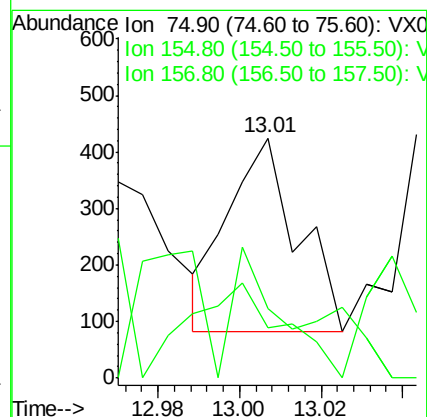
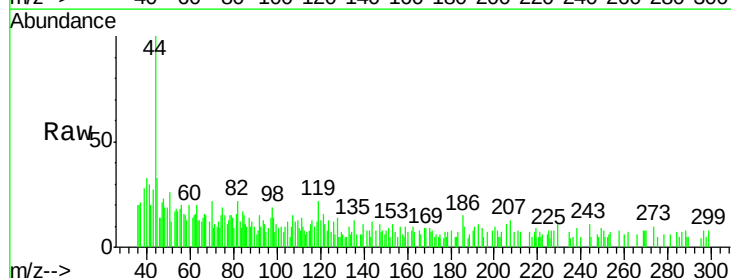
Tgt Ion: 75 Resp: 404

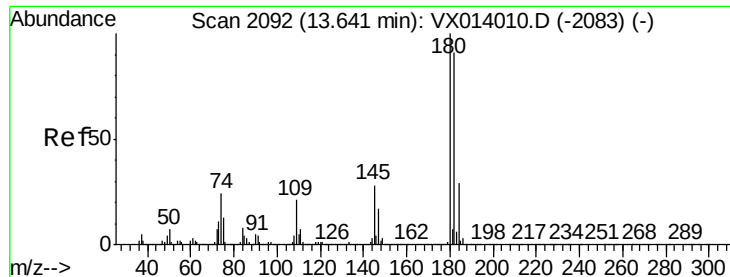
Ion Ratio Lower Upper

75 100

155 59.4 46.9 140.6

157 66.8 60.8 182.4





#93

1,2,4-Trichlorobenzene

Concen: 0.216 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

Instrument :

MSVOA_X

ClientSampled :

TRIP

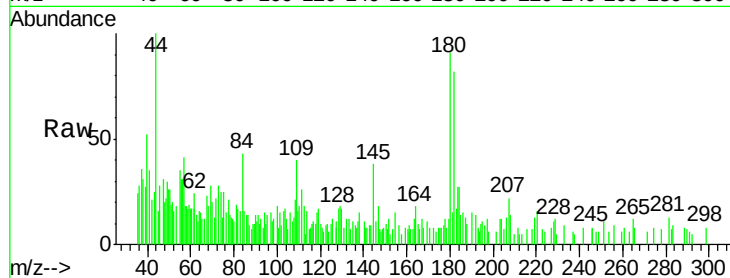
Tgt Ion:180 Resp: 1588

Ion Ratio Lower Upper

180 100

182 105.9 46.6 139.8

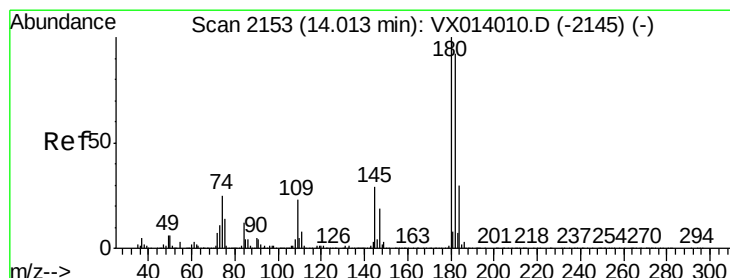
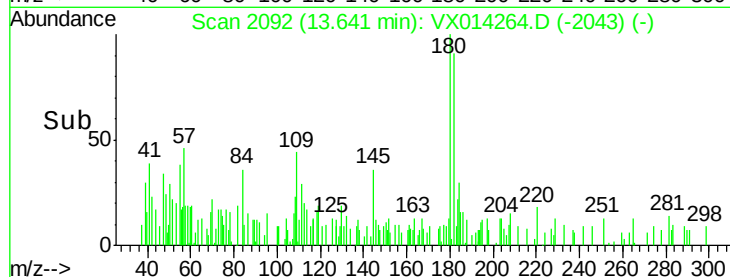
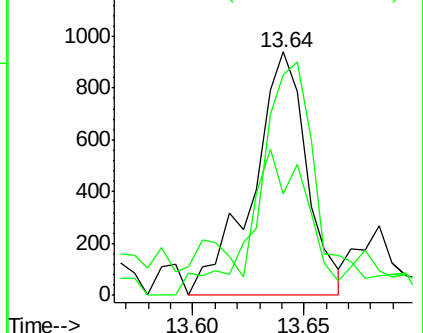
145 45.6 14.2 42.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#96

1,2,3-Trichlorobenzene

Concen: 0.239 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014264.D

Acq: 26 Dec 2019 13:15

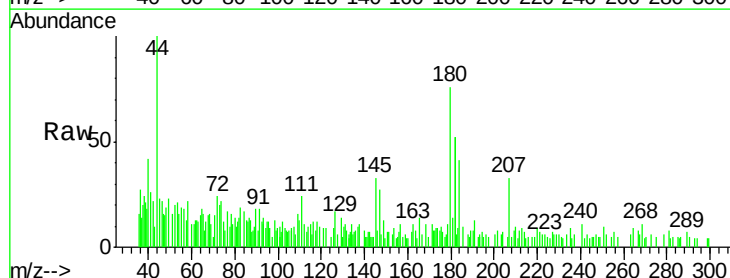
Tgt Ion:180 Resp: 1731

Ion Ratio Lower Upper

180 100

182 109.2 46.8 140.3

145 52.1 14.8 44.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

