

Data File : VX013941.D
Acq On : 11 Dec 2019 13:58
Operator : JC/SP
Sample : K6184-06DL 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20191202DL

Quant Time: Dec 12 03:59:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	544904	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	838176	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	754663	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	354325	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	304818	48.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.38%	
35) Dibromofluoromethane	5.48	113	246489	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
50) Toluene-d8	8.71	98	998458	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
62) 4-Bromofluorobenzene	11.14	95	352632	48.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.88%	

Target Compounds

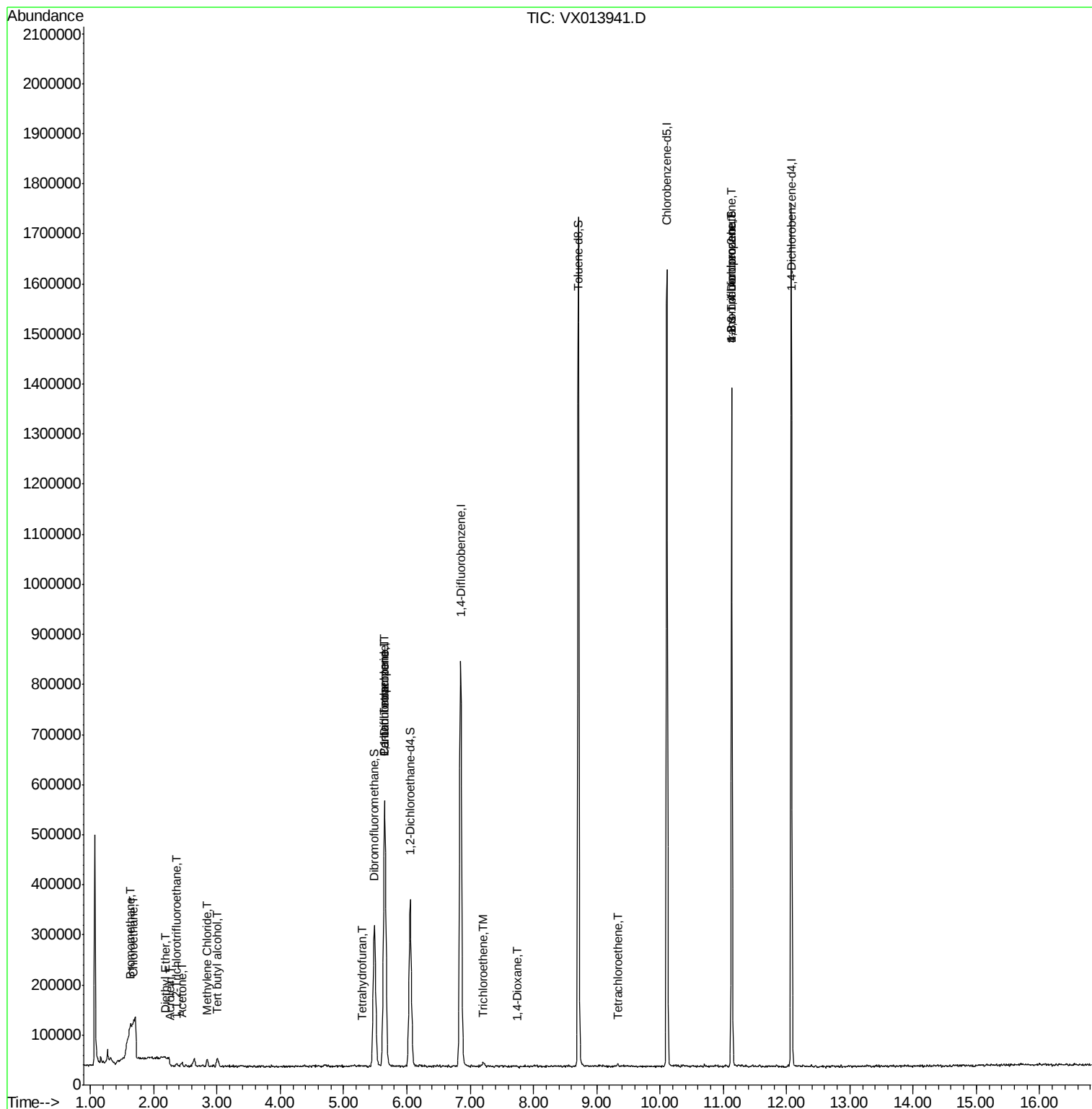
						Qvalue
5) Bromomethane	1.62	94	1962	0.381	ug/l	90
6) Chloroethane	1.67	64	7755	1.779	ug/l #	84
8) Diethyl Ether	2.20	74	1040	0.270	ug/l	53
9) 1,1,2-Trichlorotrifluoroet	2.36	101	2174	0.418	ug/l #	73
11) Tert butyl alcohol	3.01	59	10740	6.879	ug/l #	94
13) Acrolein	2.27	56	325	6.308	ug/l #	15
16) Acetone	2.44	43	9366	2.999	ug/l #	72
20) Methylene Chloride	2.84	84	6765	1.128	ug/l	95
29) Tetrahydrofuran	5.28	42	653	0.228	ug/l	92
36) 1,1-Dichloropropene	5.64	75	36921	4.853	ug/l #	52
38) Carbon Tetrachloride	5.65	117	48533	6.918	ug/l #	15
44) Trichloroethene	7.20	130	4821	0.758	ug/l	73
49) 1,4-Dioxane	7.75	88	286	1.871	ug/l #	21
64) Tetrachloroethene	9.34	164	1246	0.221	ug/l #	66
76) 1,2,3-Trichloropropane	11.14	75	170523	21.397	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	170523	58.539	ug/l #	11

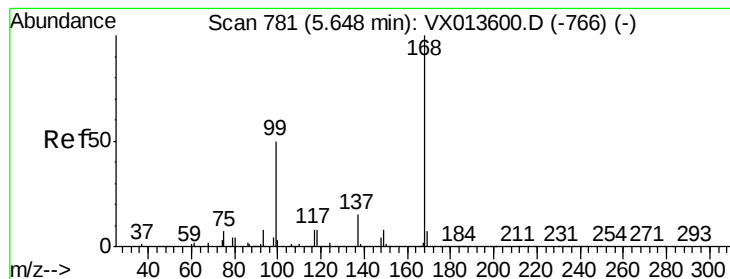
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

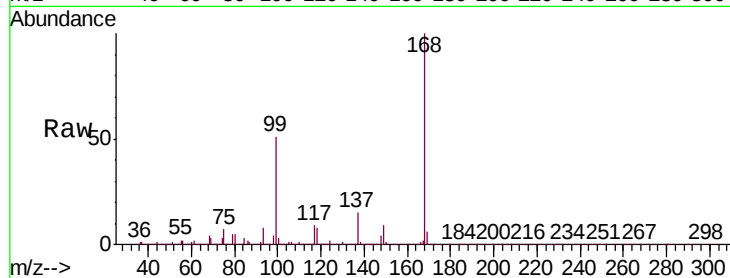
RE134D4-20191202DL

Tgt Ion:168 Resp: 544904

Ion Ratio Lower Upper

168 100

99 51.2 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

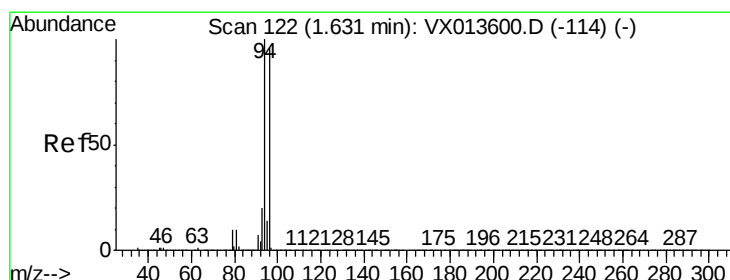
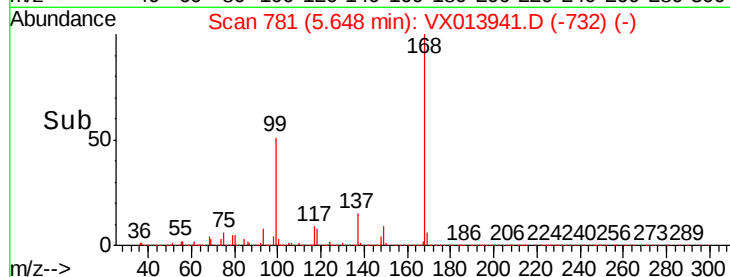
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.381 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.01 min

Lab File: VX013941.D

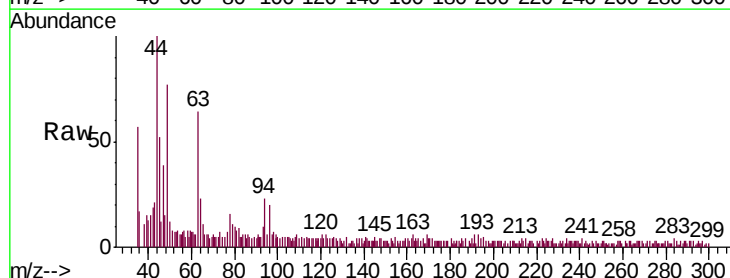
Acq: 11 Dec 2019 13:58

Tgt Ion: 94 Resp: 1962

Ion Ratio Lower Upper

94 100

96 86.3 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

1500

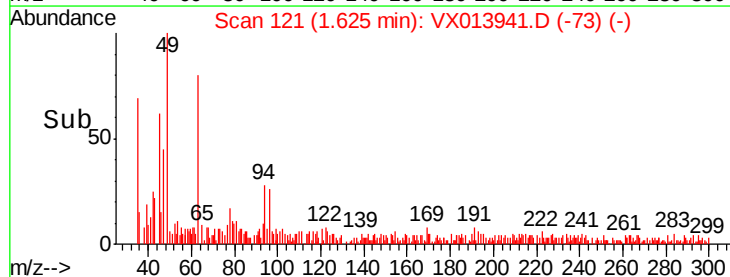
1000

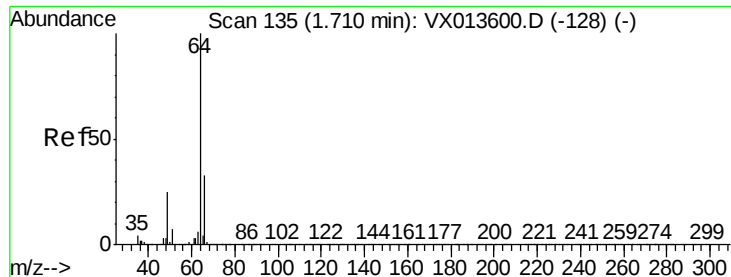
500

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 1.779 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

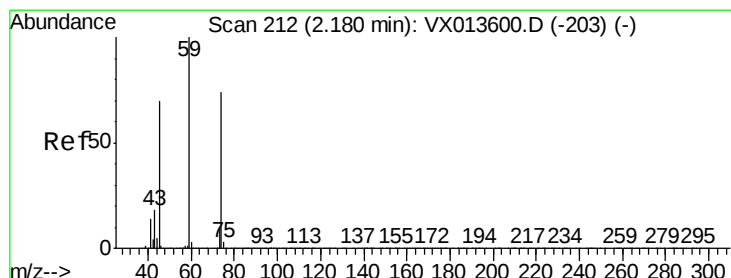
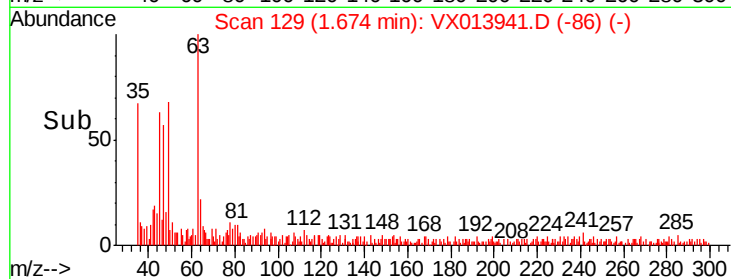
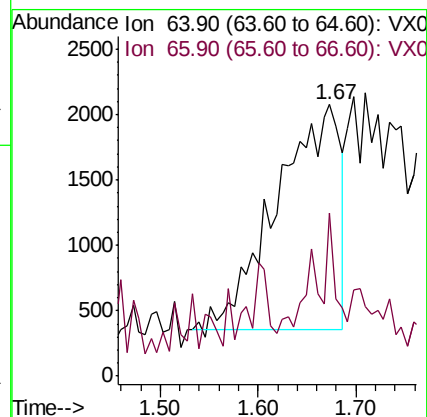
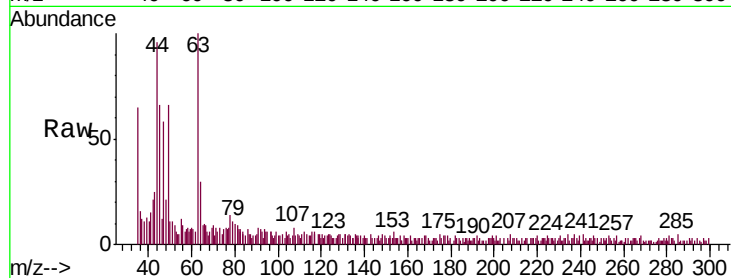
RE134D4-20191202DL

Tgt Ion: 64 Resp: 7755

Ion Ratio Lower Upper

64 100

66 42.2 26.7 40.1#



#8

Diethyl Ether

Concen: 0.270 ug/l

RT: 2.20 min Scan# 215

Delta R.T. 0.02 min

Lab File: VX013941.D

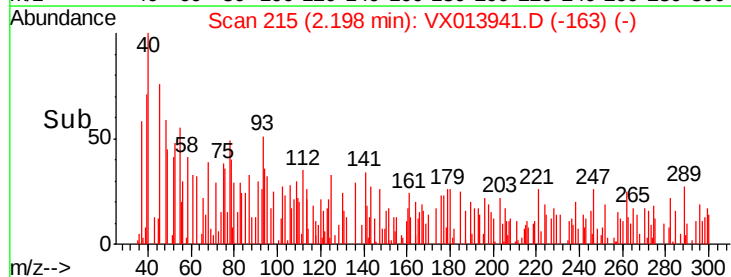
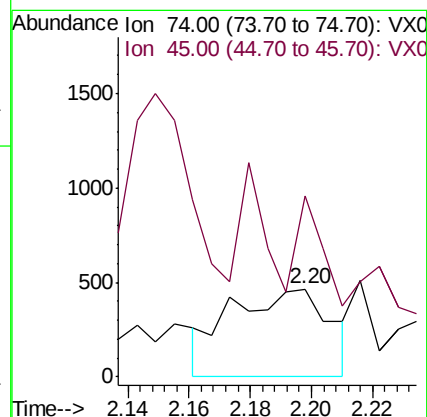
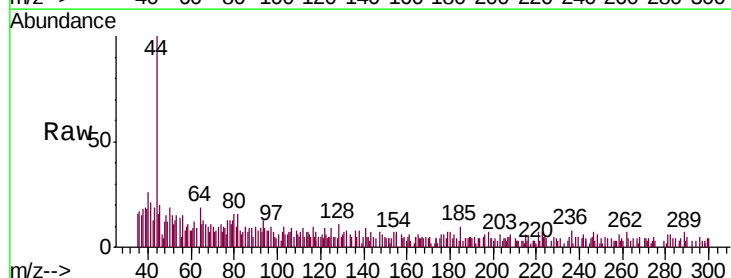
Acq: 11 Dec 2019 13:58

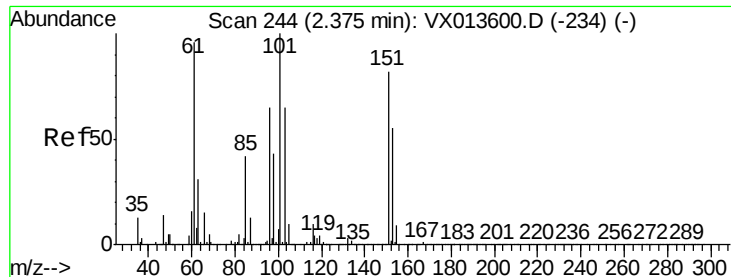
Tgt Ion: 74 Resp: 1040

Ion Ratio Lower Upper

74 100

45 51.5 48.9 146.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.418 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.01 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20191202DL

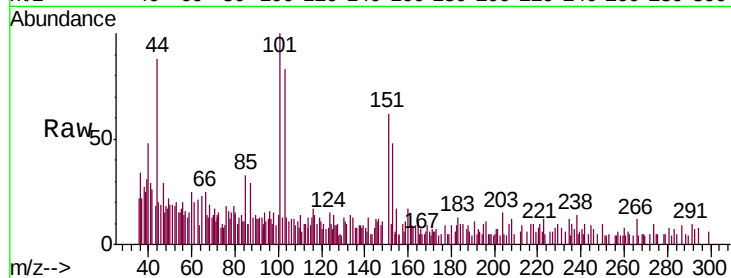
Tgt Ion:101 Resp: 2174

Ion Ratio Lower Upper

101 100

85 11.8 33.9 50.9#

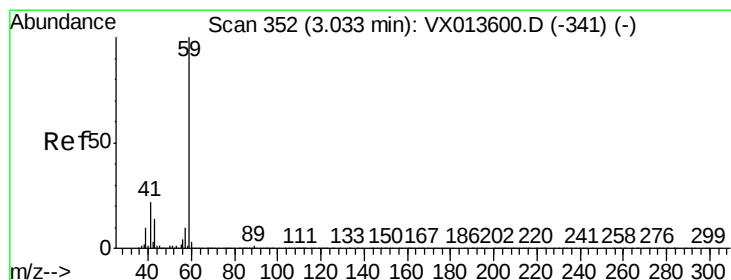
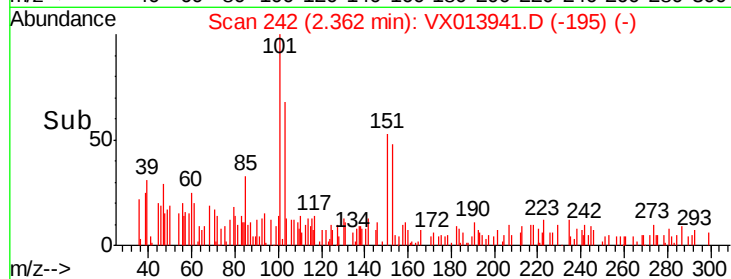
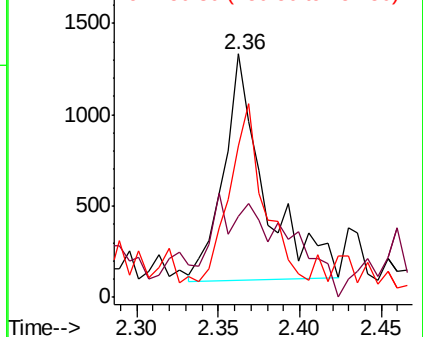
151 66.0 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 6.879 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013941.D

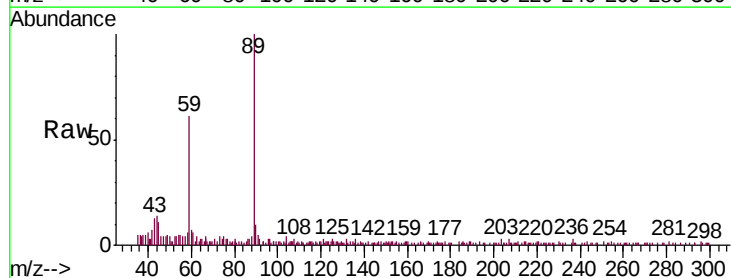
Acq: 11 Dec 2019 13:58

Tgt Ion: 59 Resp: 10740

Ion Ratio Lower Upper

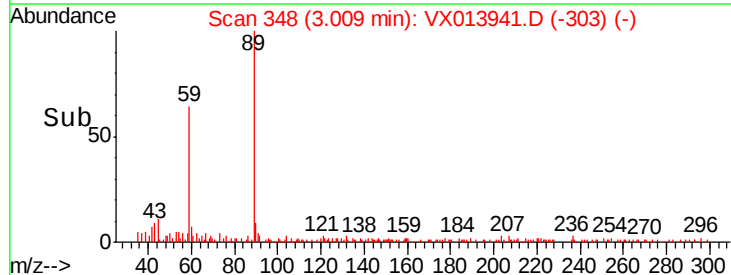
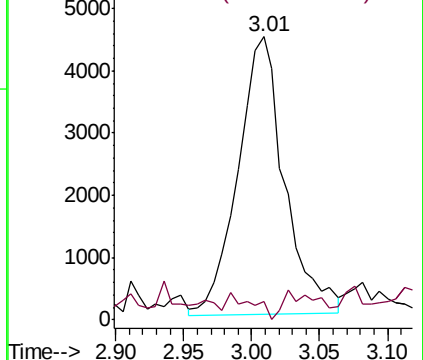
59 100

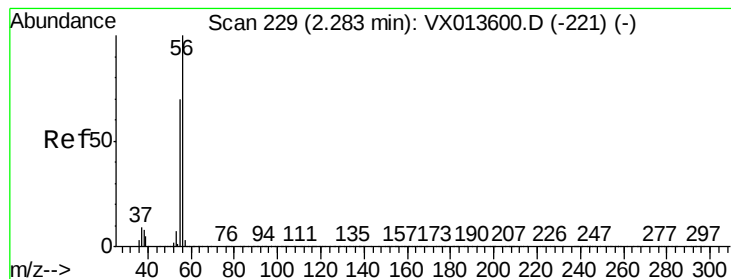
57 7.4 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 6.308 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

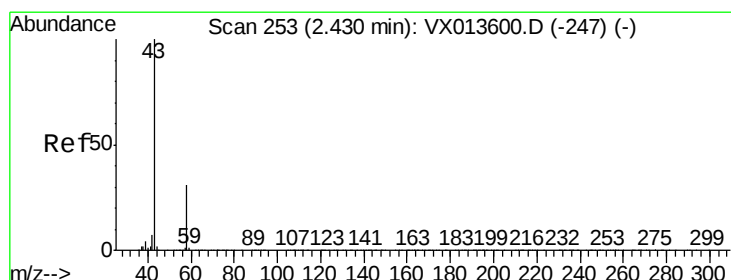
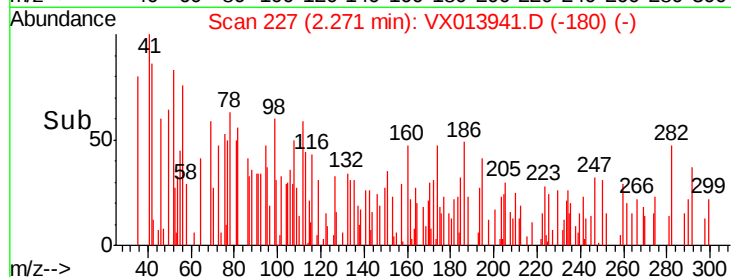
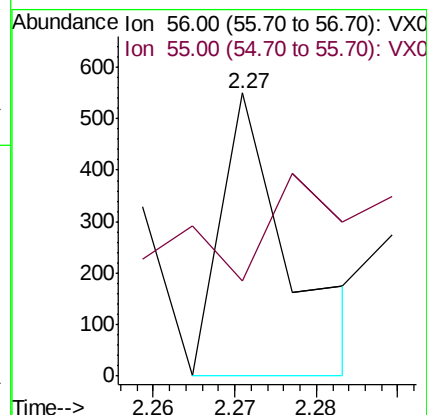
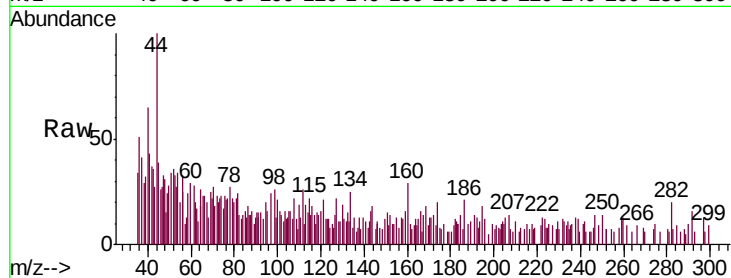
RE134D4-20191202DL

Tgt Ion: 56 Resp: 325

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#16

Acetone

Concen: 2.999 ug/l

RT: 2.44 min Scan# 255

Delta R.T. 0.01 min

Lab File: VX013941.D

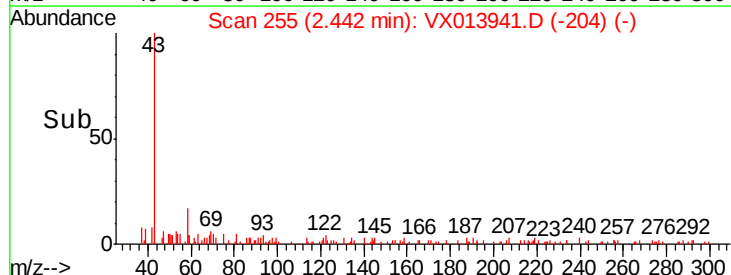
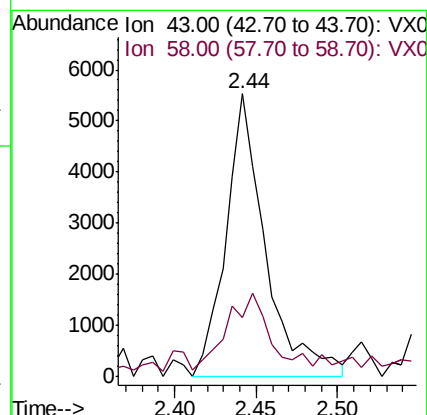
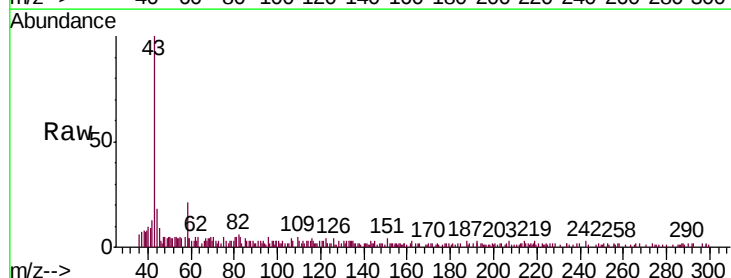
Acq: 11 Dec 2019 13:58

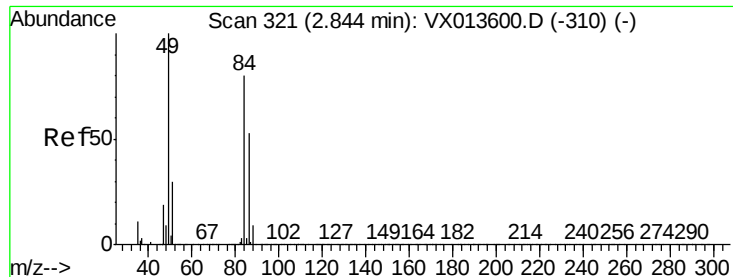
Tgt Ion: 43 Resp: 9366

Ion Ratio Lower Upper

43 100

58 15.2 24.6 36.8#

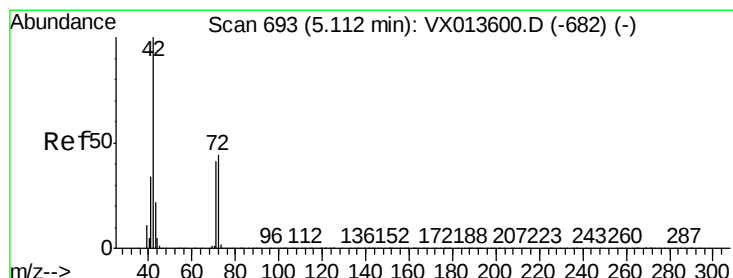
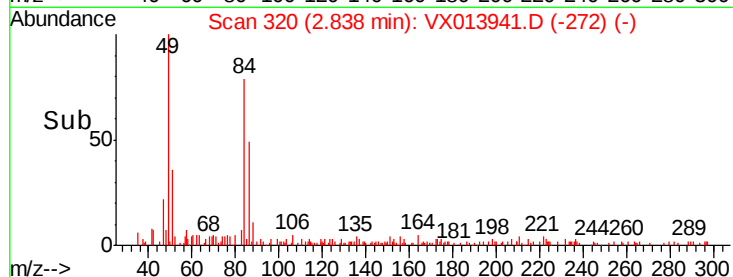
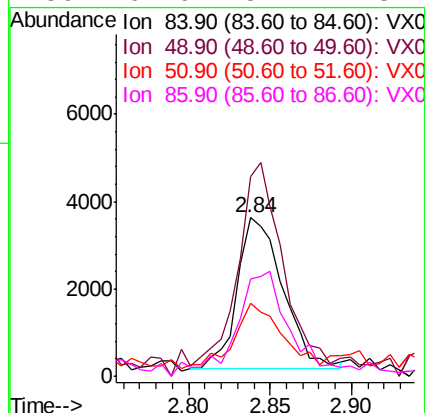
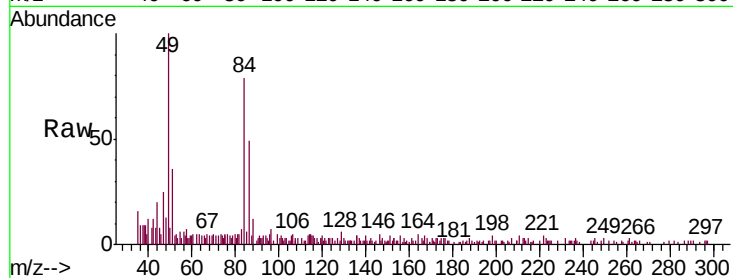




#20
Methylene Chloride
Concen: 1.128 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX013941.D
Acq: 11 Dec 2019 13:58

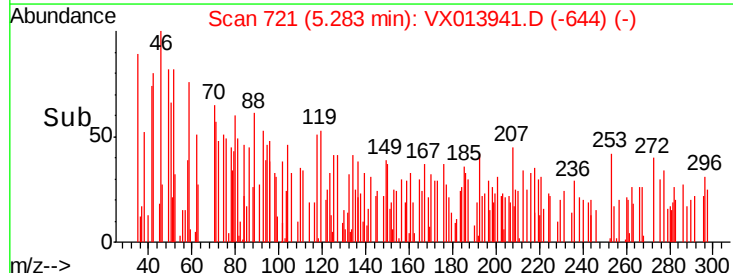
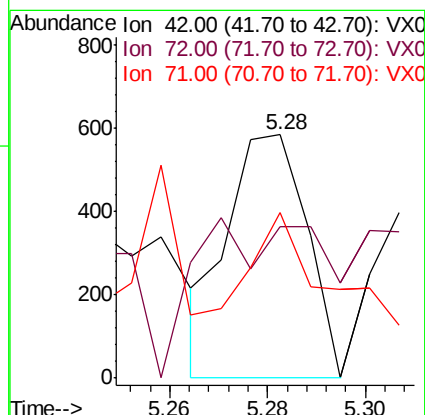
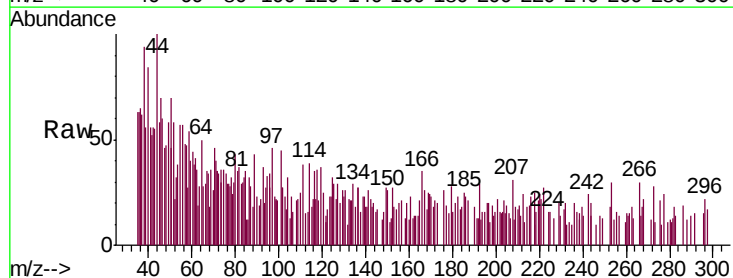
Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20191202DL

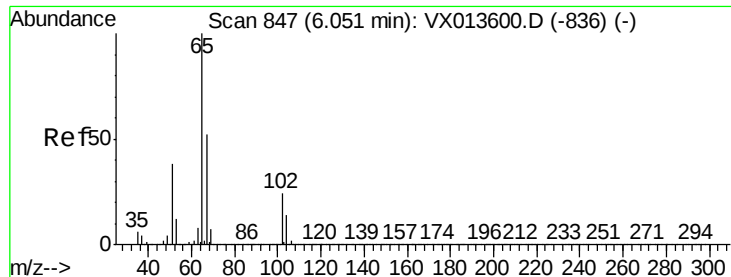
Tgt Ion:	84	Resp:	6765
Ion	Ratio	Lower	Upper
84	100		
49	130.6	99.7	149.5
51	41.8	29.9	44.9
86	61.6	52.2	78.4



#29
Tetrahydrofuran
Concen: 0.228 ug/l
RT: 5.28 min Scan# 721
Delta R.T. 0.17 min
Lab File: VX013941.D
Acq: 11 Dec 2019 13:58

Tgt Ion:	42	Resp:	653
Ion	Ratio	Lower	Upper
42	100		
72	51.6	36.3	54.5
71	37.5	33.2	49.8





#33

1,2-Dichloroethane-d4

Concen: 48.192 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

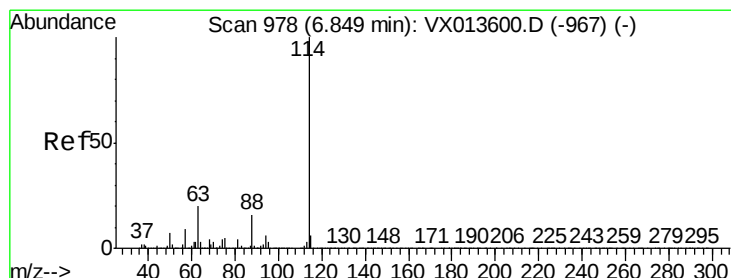
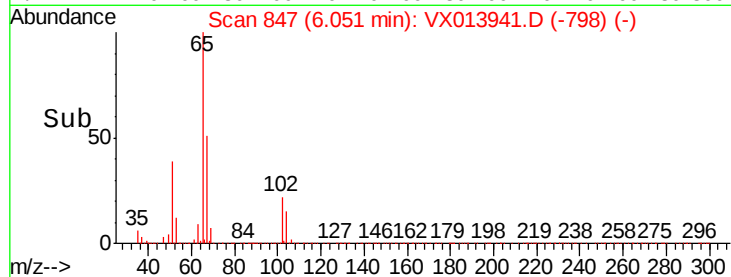
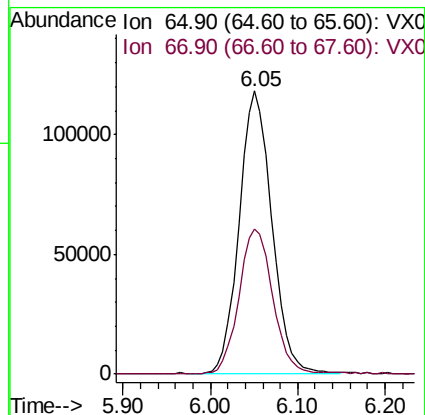
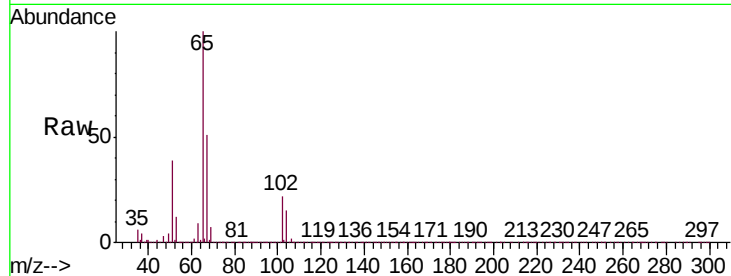
RE134D4-20191202DL

Tgt Ion: 65 Resp: 304818

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

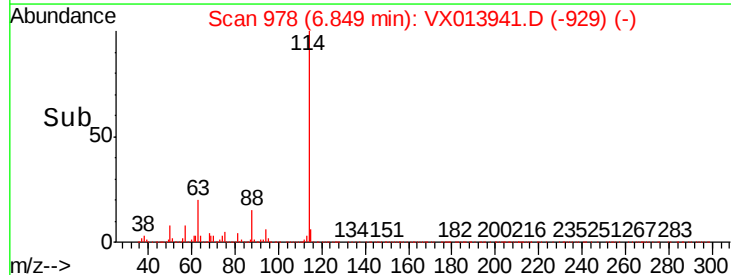
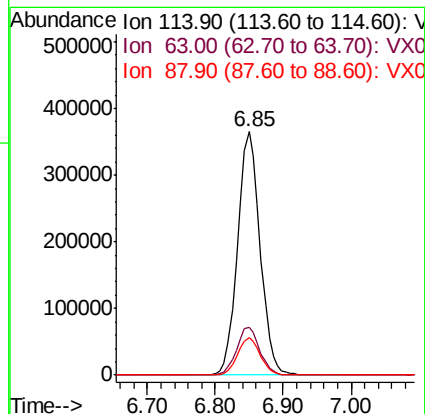
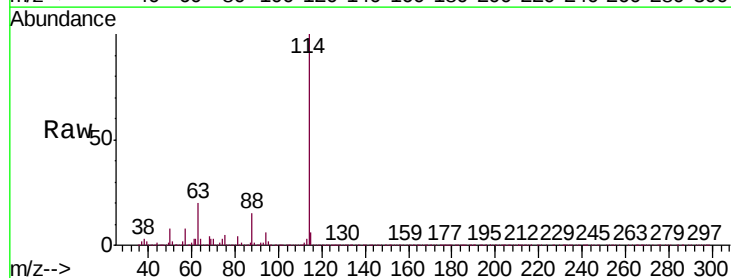
Tgt Ion: 114 Resp: 838176

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 15.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.569 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20191202DL

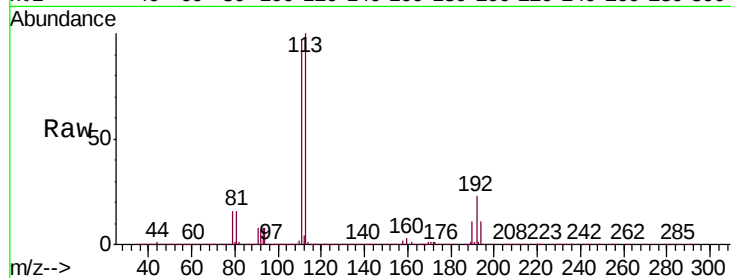
Tgt Ion: 113 Resp: 246489

Ion Ratio Lower Upper

113 100

111 100.6 83.6 125.4

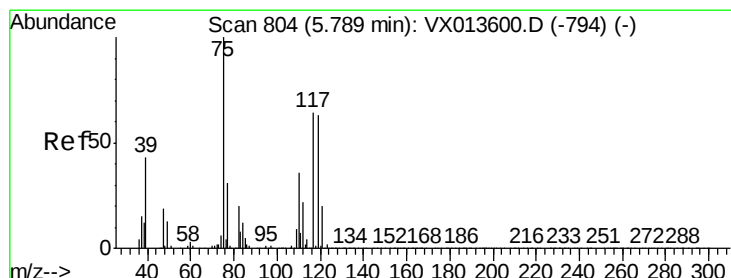
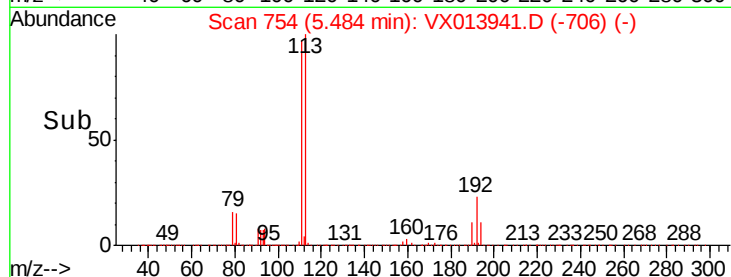
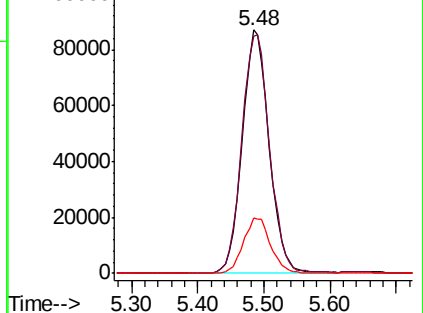
192 22.6 19.2 28.8



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: 4.853 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

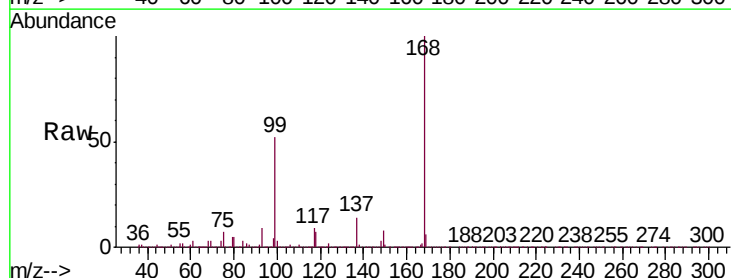
Tgt Ion: 75 Resp: 36921

Ion Ratio Lower Upper

75 100

110 11.0 18.1 54.1#

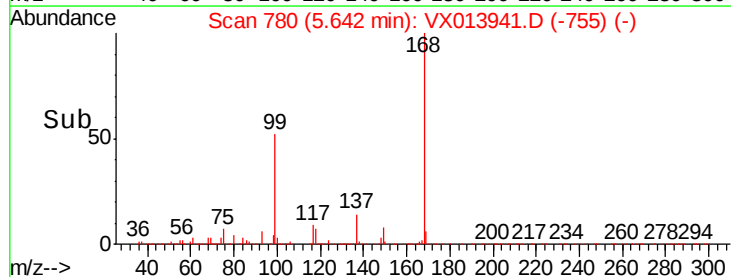
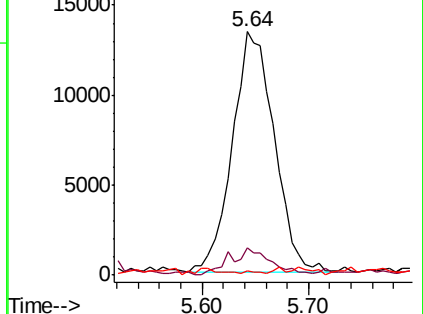
77 0.4 24.5 36.7#

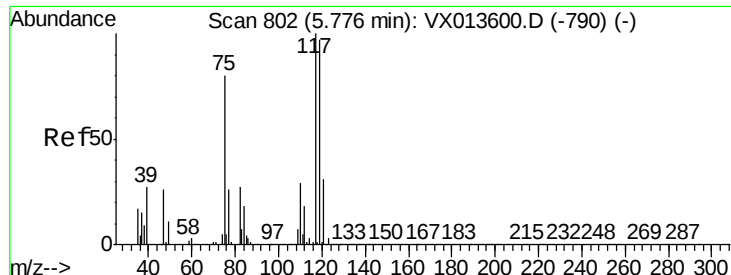


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.918 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20191202DL

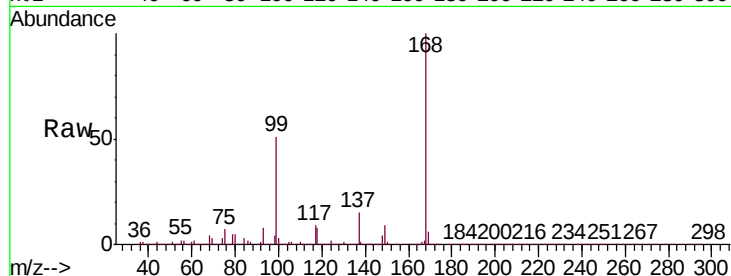
Tgt Ion:117 Resp: 48533

Ion Ratio Lower Upper

117 100

119 4.0 77.5 116.3#

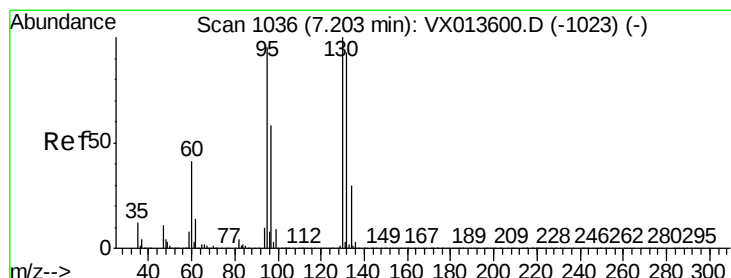
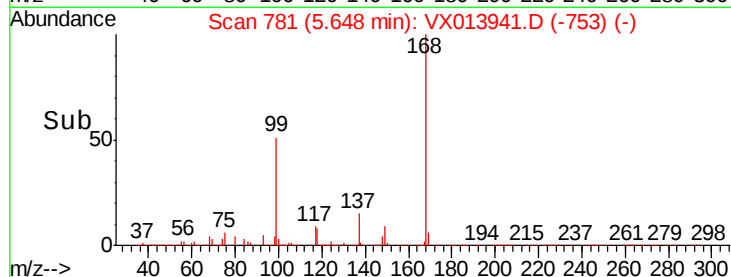
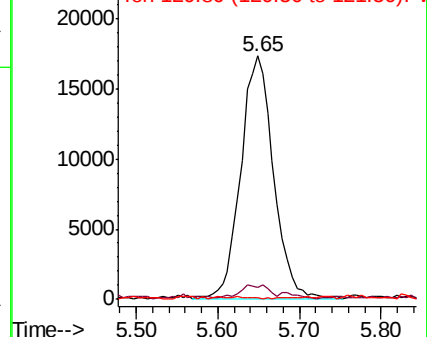
121 0.0 25.0 37.6#



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: 0.758 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013941.D

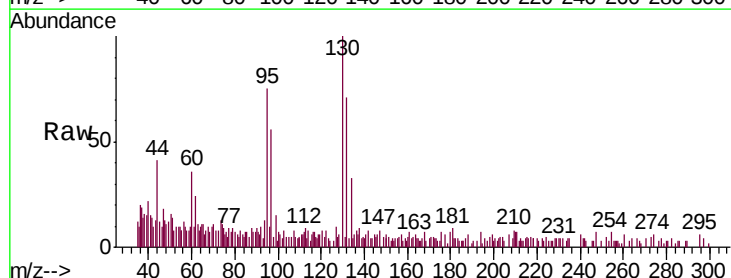
Acq: 11 Dec 2019 13:58

Tgt Ion:130 Resp: 4821

Ion Ratio Lower Upper

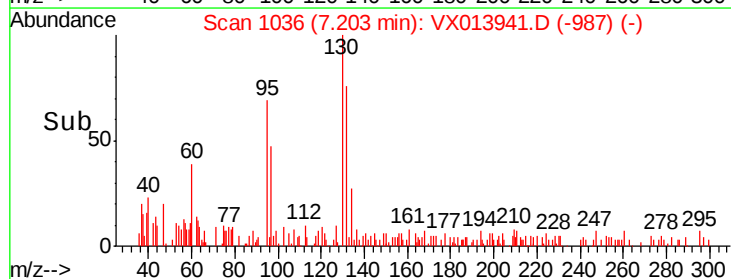
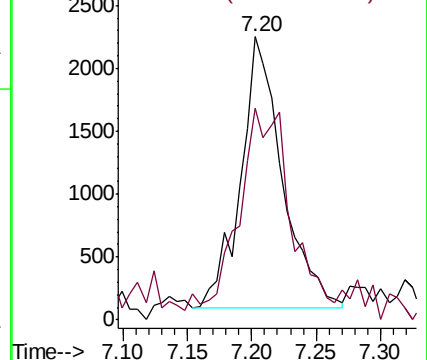
130 100

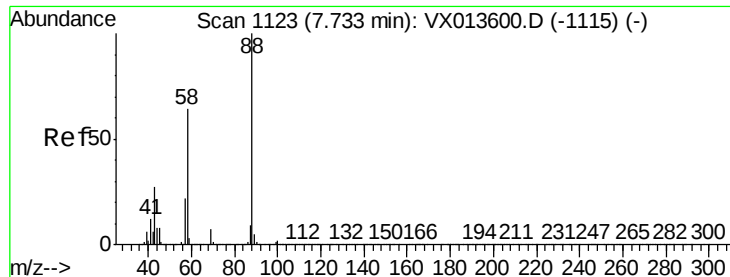
95 68.7 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 1.871 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20191202DL

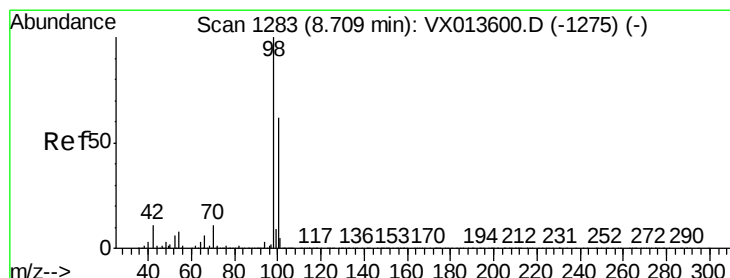
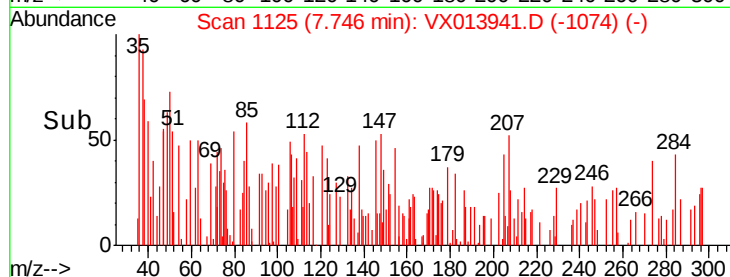
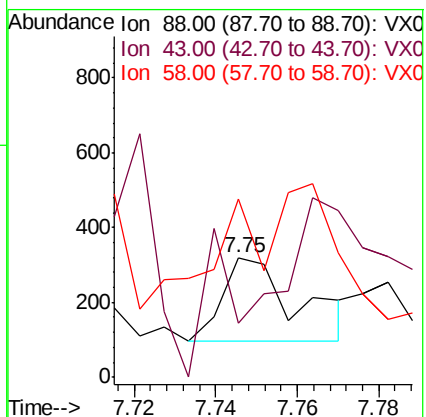
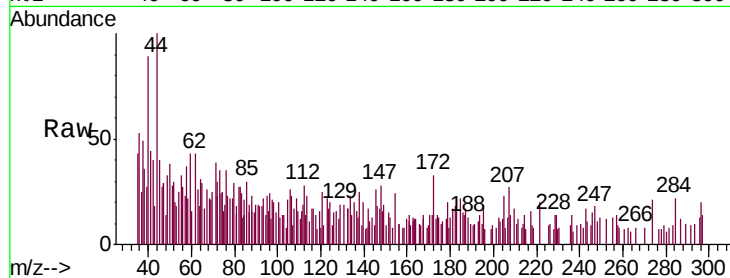
Tgt Ion: 88 Resp: 286

Ion Ratio Lower Upper

88 100

43 69.6 25.8 38.6#

58 0.0 54.6 82.0#



#50

Toluene-d8

Concen: 49.457 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013941.D

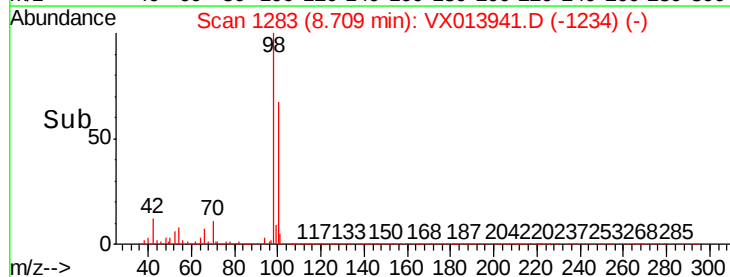
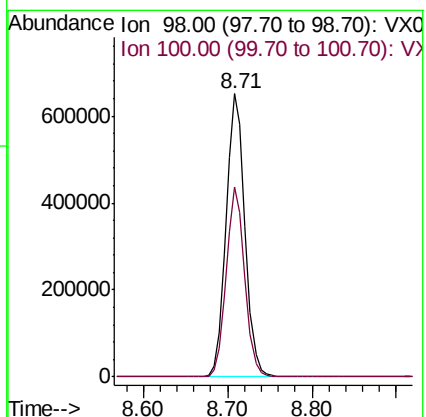
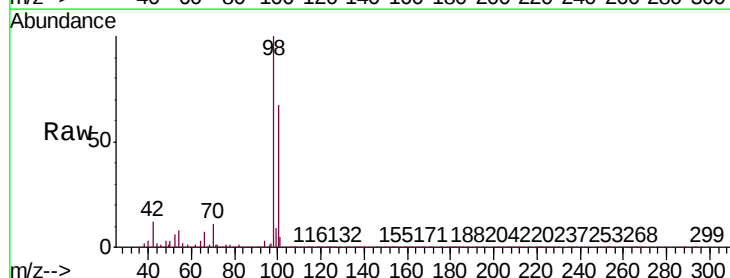
Acq: 11 Dec 2019 13:58

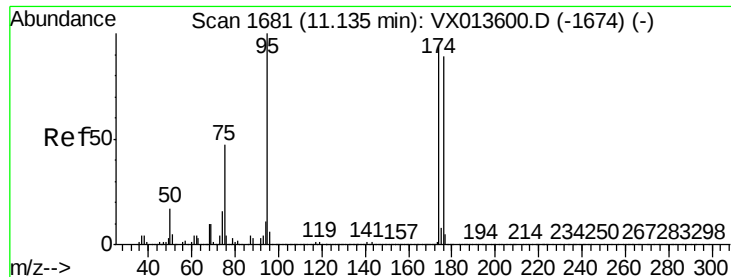
Tgt Ion: 98 Resp: 998458

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 48.438 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20191202DL

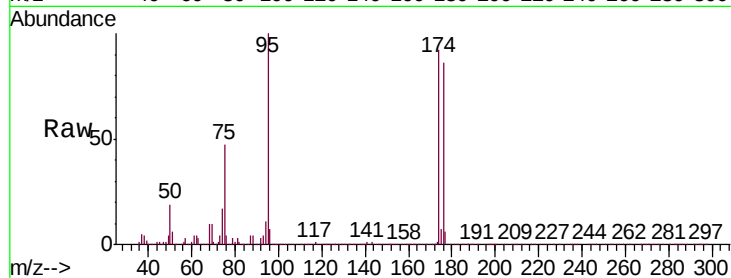
Tgt Ion: 95 Resp: 352632

Ion Ratio Lower Upper

95 100

174 88.5 0.0 180.0

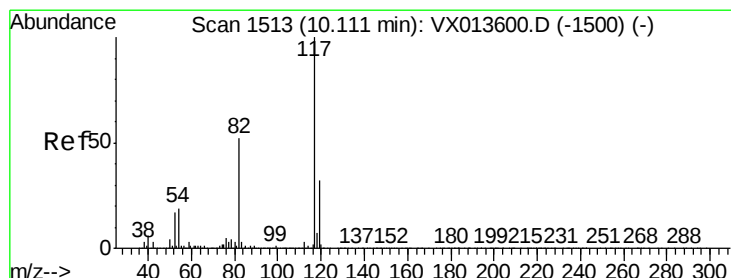
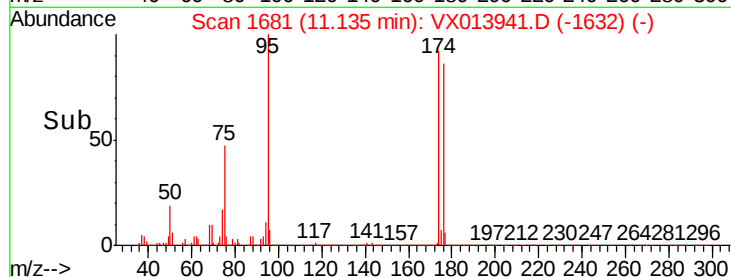
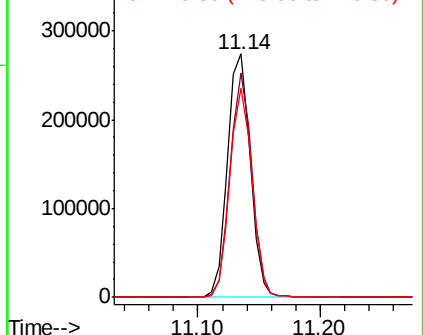
176 84.1 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

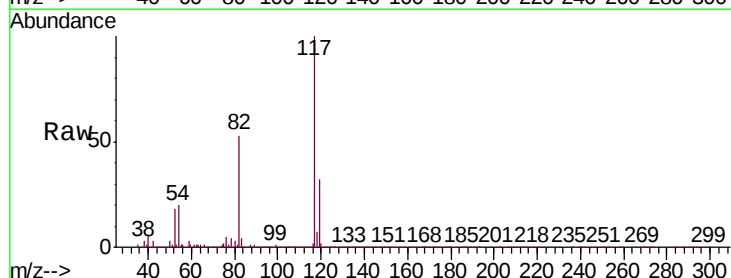
Tgt Ion: 117 Resp: 754663

Ion Ratio Lower Upper

117 100

82 52.9 41.8 62.8

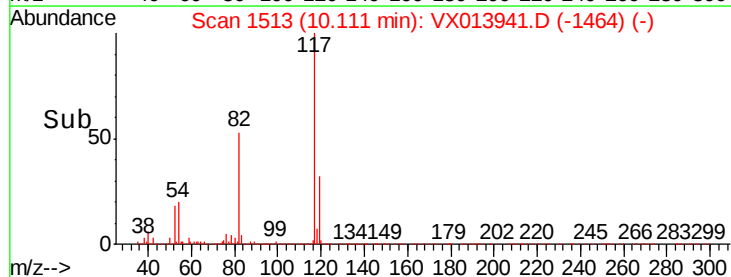
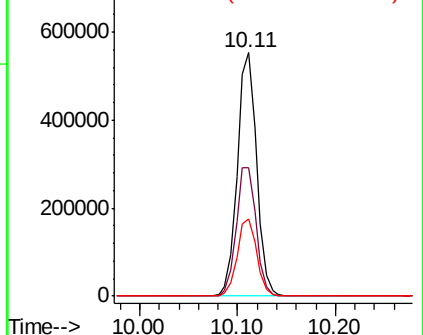
119 31.9 25.8 38.8

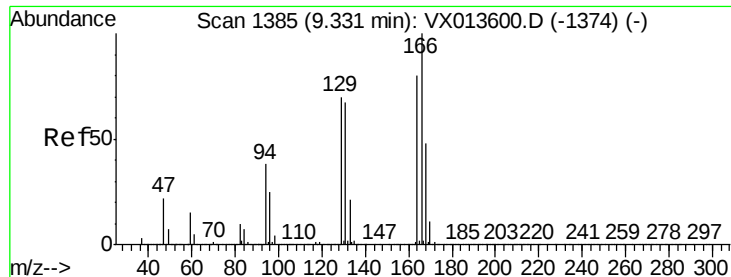


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)





#64

Tetrachloroethene

Concen: 0.221 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20191202DL

Tgt Ion:164 Resp: 1246

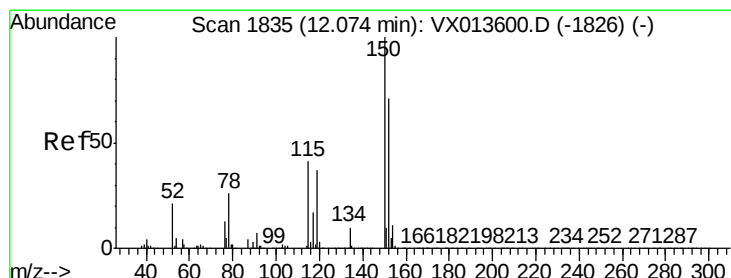
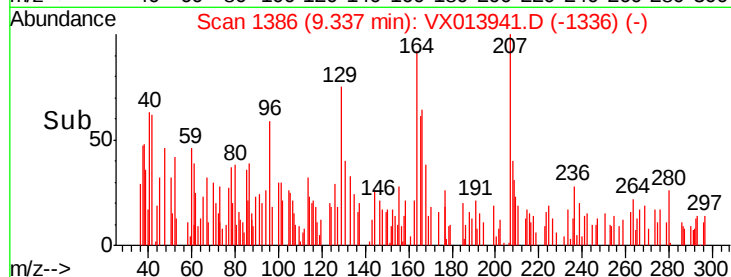
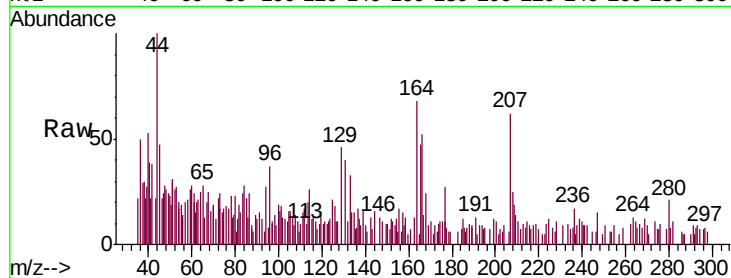
Ion Ratio Lower Upper

164 100

166 143.5 99.7 149.5

129 39.6 70.1 105.1#

131 47.3 66.9 100.3#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

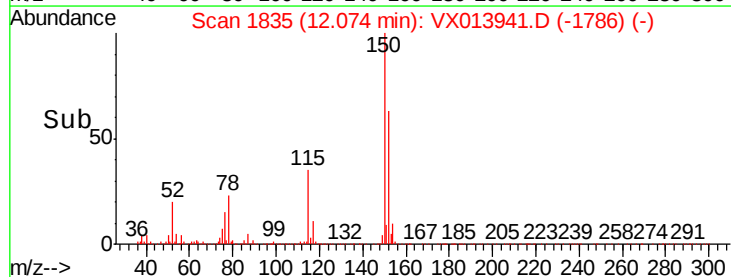
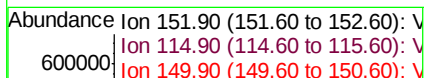
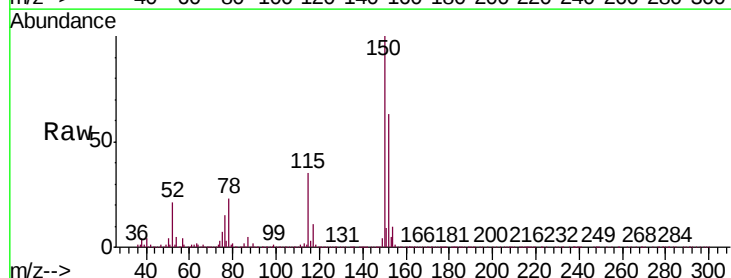
Tgt Ion:152 Resp: 354325

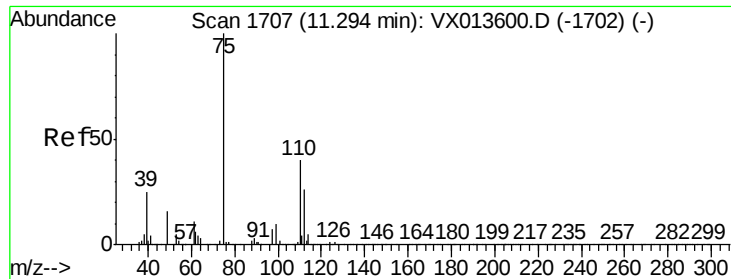
Ion Ratio Lower Upper

152 100

115 56.0 38.4 115.1

150 159.1 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 21.397 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

Instrument :

MSVOA_X

ClientSampleId :

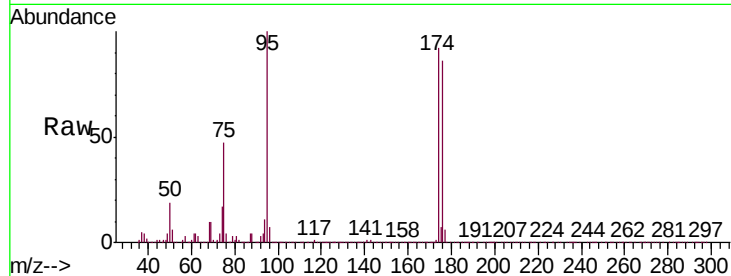
RE134D4-20191202DL

Tgt Ion: 75 Resp: 170523

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

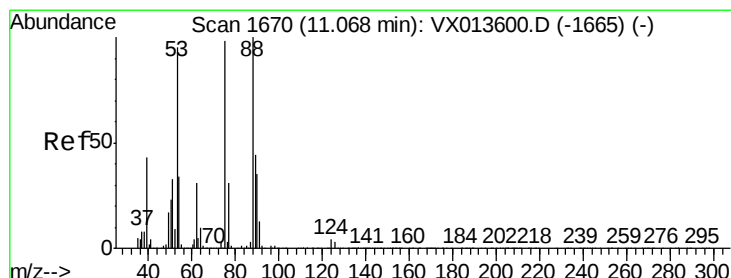
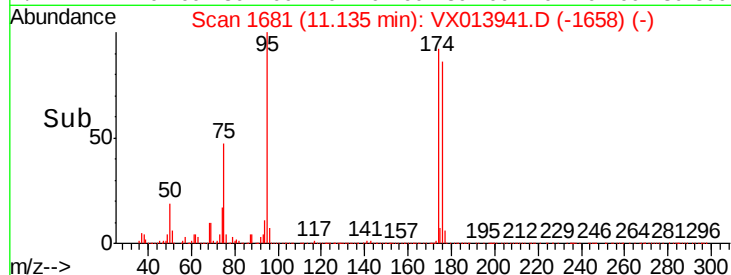
11.14

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 58.539 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013941.D

Acq: 11 Dec 2019 13:58

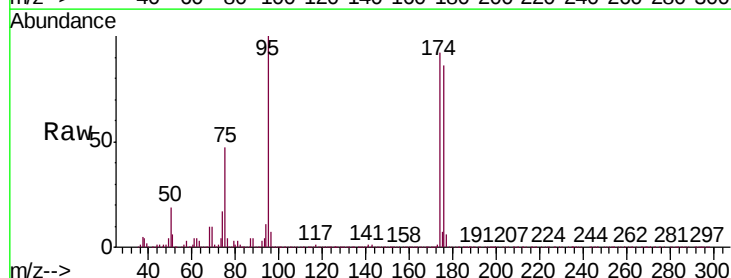
Tgt Ion: 75 Resp: 170523

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.2#

89 0.1 35.4 53.2#



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

11.14

150000

100000

50000

0

Time-->

