

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120619\
 Data File : VX013819.D
 Acq On : 06 Dec 2019 23:38
 Operator : JC/SP
 Sample : K6184-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20191204

Quant Time: Dec 07 02:45:23 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	624362	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	962642	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	848909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	360835	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	345385	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
35) Dibromofluoromethane	5.49	113	289584	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
50) Toluene-d8	8.71	98	1124736	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
62) 4-Bromofluorobenzene	11.14	95	374377	44.78	ug/l	0.00
Spiked Amount			Recovery	=	89.56%	

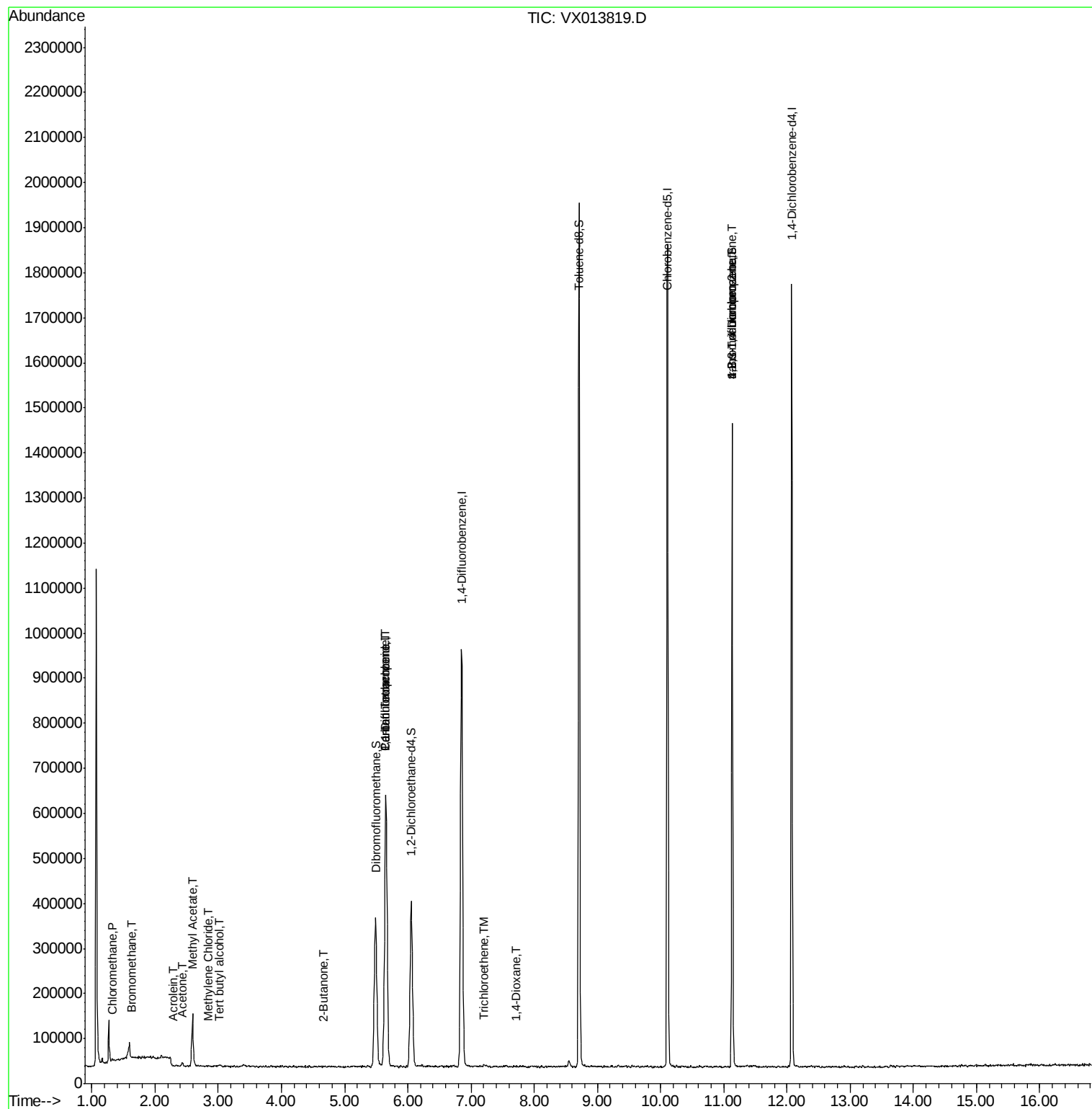
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2785	0.357	ug/l	95
5) Bromomethane	1.64	94	1237	0.210	ug/l	97
11) Tert butyl alcohol	3.03	59	3797	2.123	ug/l #	19
13) Acrolein	2.30	56	681	6.559	ug/l	93
16) Acetone	2.43	43	8890	2.485	ug/l #	88
18) Methyl Acetate	2.59	43	30971	3.108	ug/l #	53
20) Methylene Chloride	2.85	84	1881	0.274	ug/l #	72
25) 2-Butanone	4.65	43	1325	0.249	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	42811	4.899	ug/l #	42
38) Carbon Tetrachloride	5.65	117	53322	6.618	ug/l #	15
44) Trichloroethene	7.20	130	2456	0.336	ug/l	89
49) 1,4-Dioxane	7.73	88	309	1.760	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	181352	22.346	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	181352	61.133	ug/l #	11

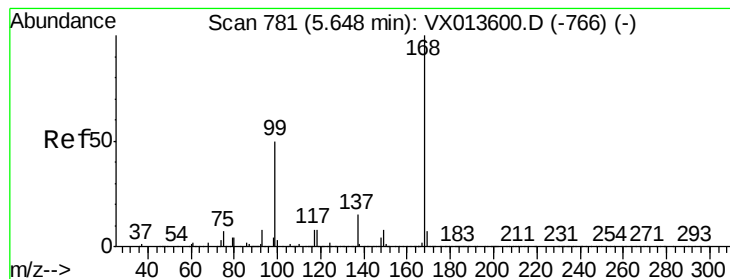
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

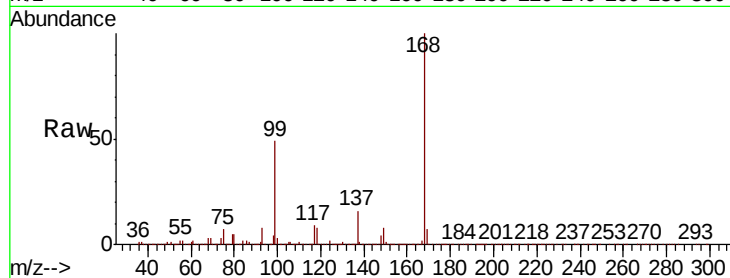
RE104D3-20191204

Tot Ion:168 Resp: 624362

Ion Ratio Lower Upper

168 100

99 48.8 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

250000

200000

150000

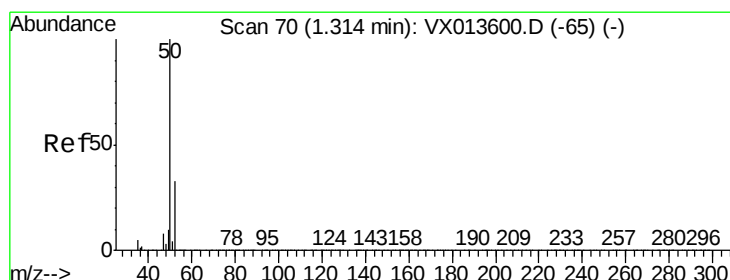
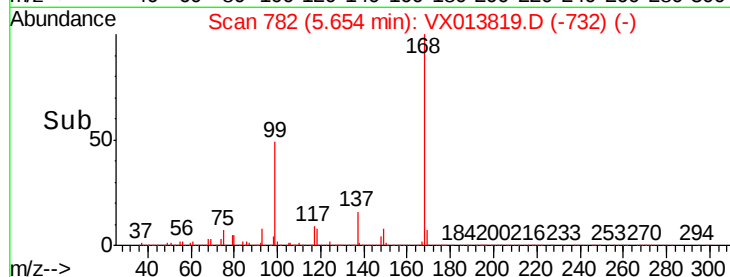
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.357 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013819.D

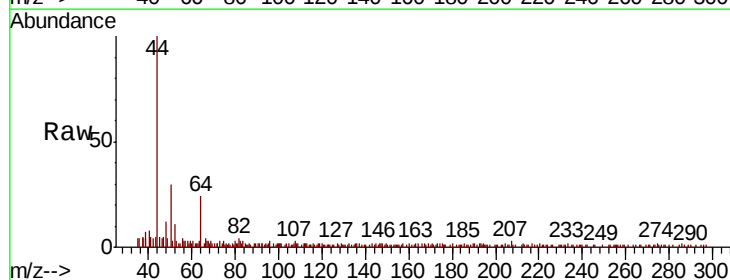
Acq: 06 Dec 2019 23:38

Tgt Ion: 50 Resp: 2785

Ion Ratio Lower Upper

50 100

52 29.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

3000

2500

2000

1500

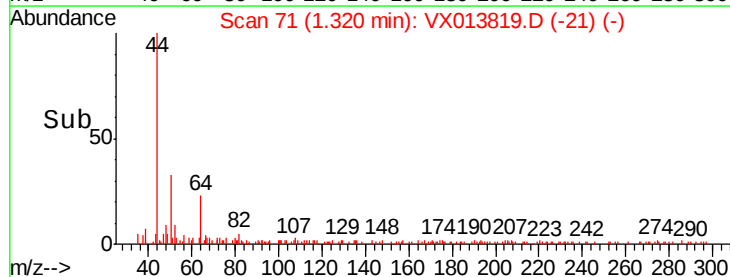
1000

500

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: 0.210 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

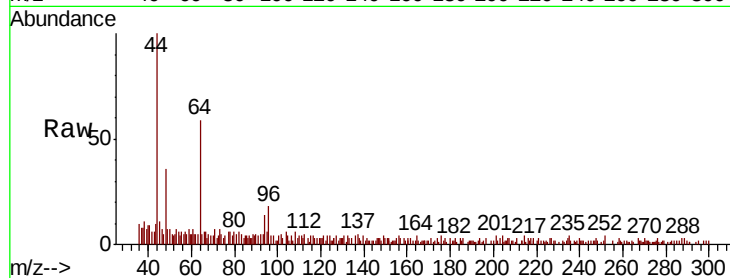
RE104D3-20191204

Tot Ion: 94 Resp: 1237

Ion Ratio Lower Upper

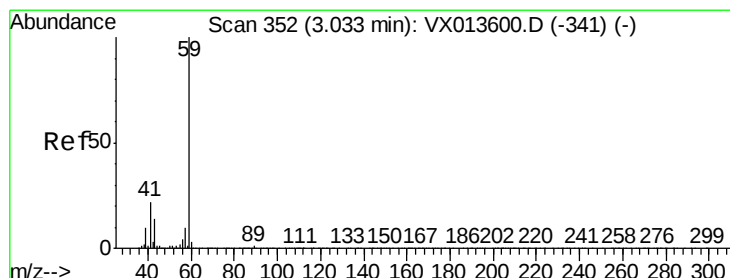
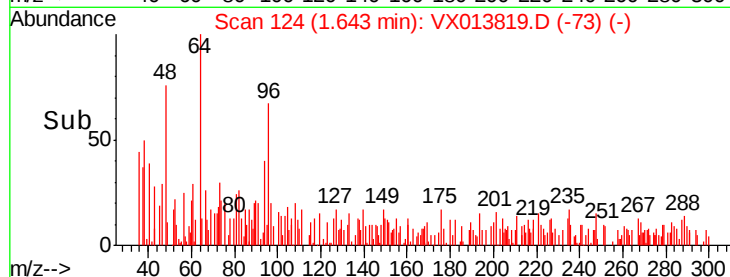
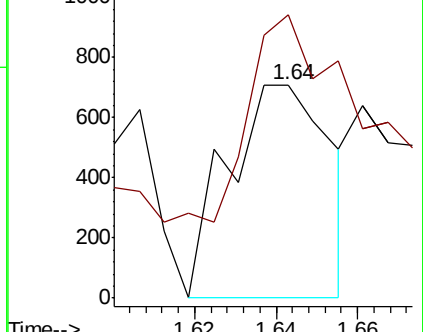
94 100

96 93.1 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 2.123 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013819.D

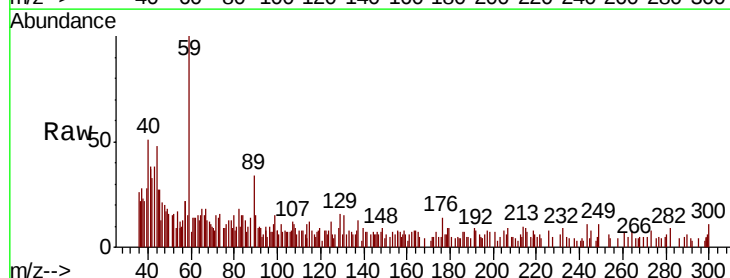
Acq: 06 Dec 2019 23:38

Tgt Ion: 59 Resp: 3797

Ion Ratio Lower Upper

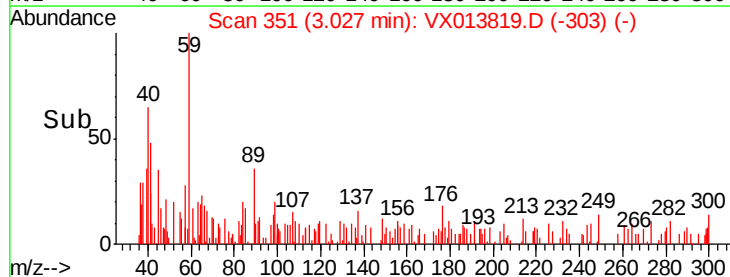
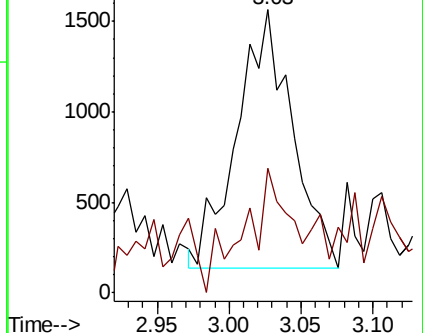
59 100

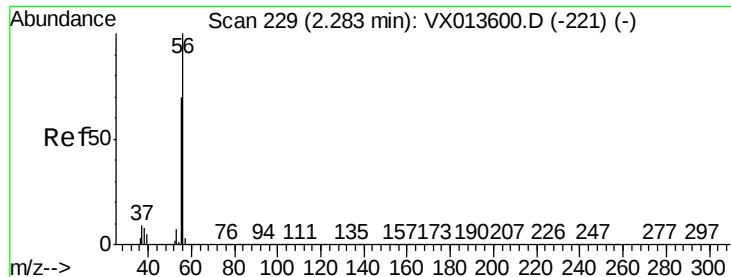
57 39.6 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 6.559 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

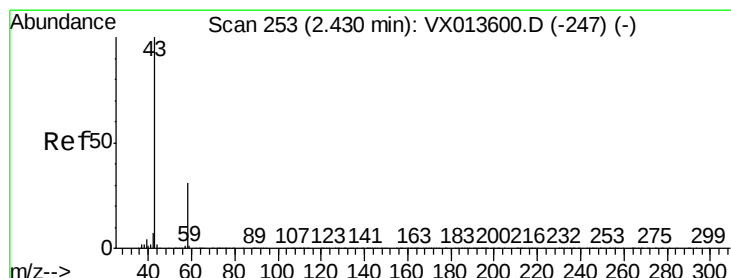
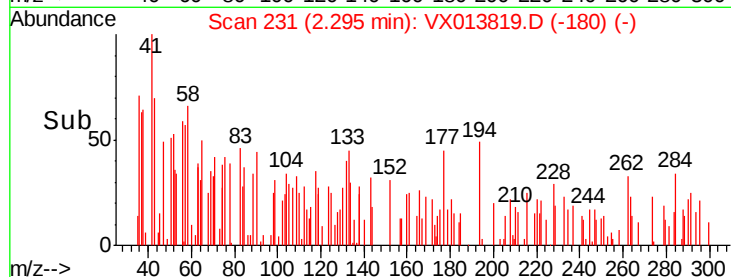
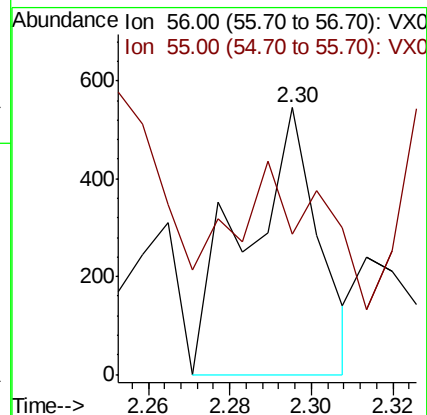
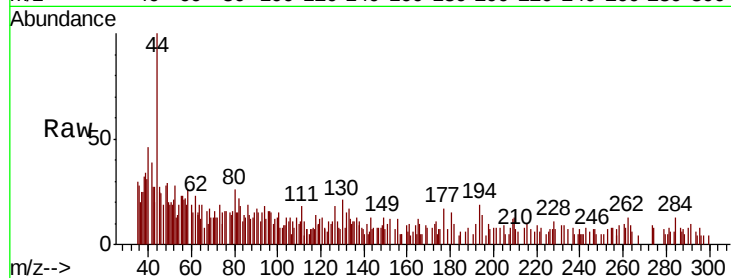
RE104D3-20191204

Tot Ion: 56 Resp: 681

Ion Ratio Lower Upper

56 100

55 64.3 56.2 84.4



#16

Acetone

Concen: 2.485 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013819.D

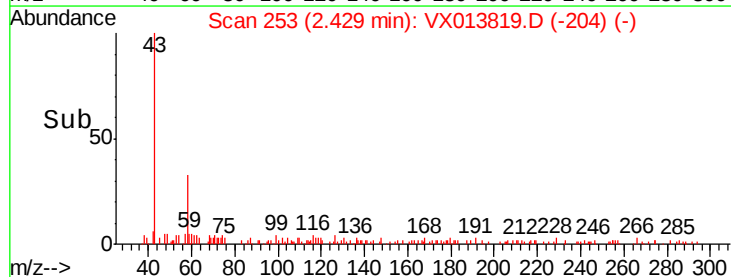
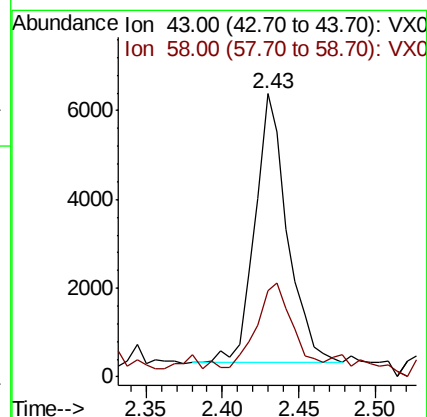
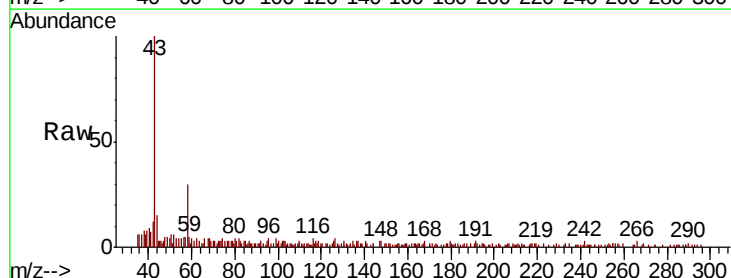
Acq: 06 Dec 2019 23:38

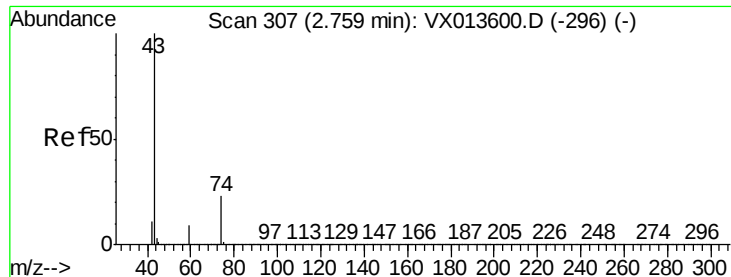
Tgt Ion: 43 Resp: 8890

Ion Ratio Lower Upper

43 100

58 23.9 24.6 36.8#

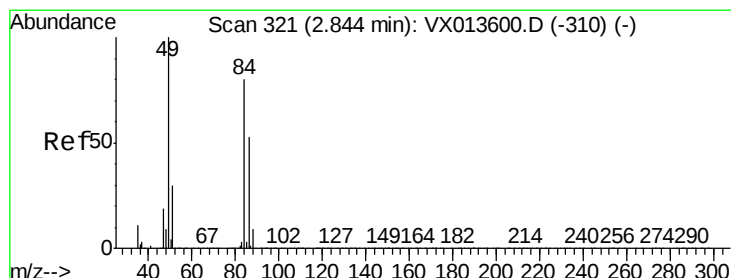
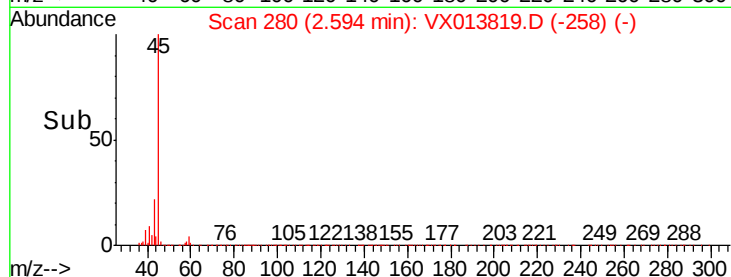
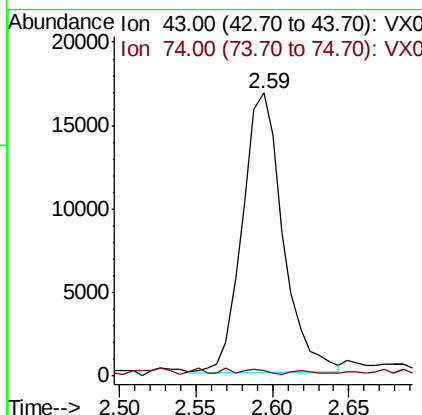
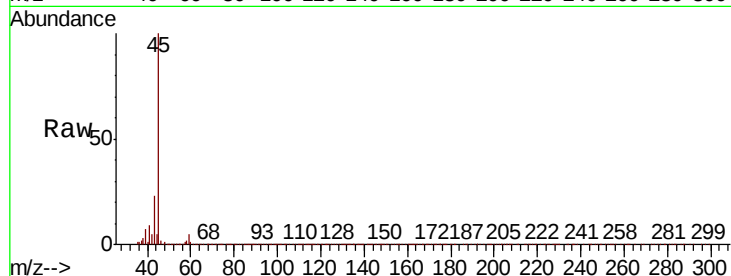




#18
Methyl Acetate
Concen: 3.108 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.16 min
Lab File: VX013819.D
Acq: 06 Dec 2019 23:38

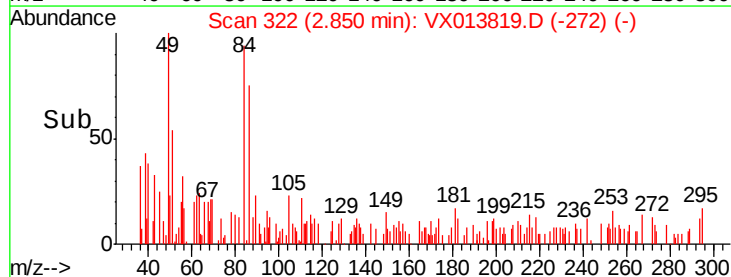
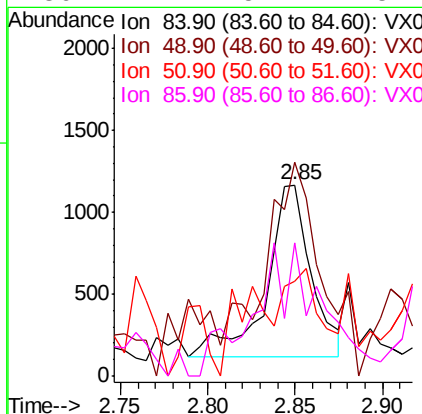
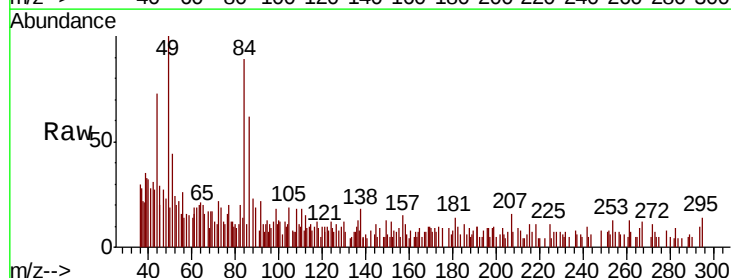
Instrument :
MSVOA_X
ClientSampleId :
RE104D3-20191204

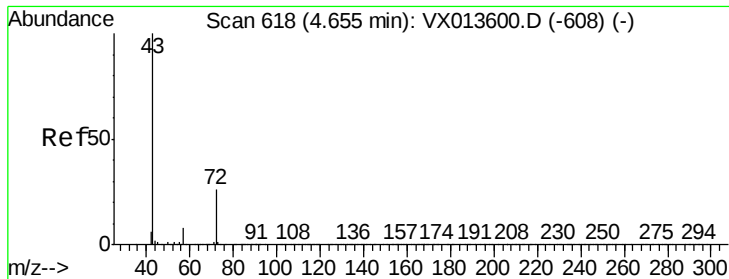
Tot Ion: 43 Resp: 30971
Ion Ratio Lower Upper
43 100
74 1.1 19.5 29.3#



#20
Methylene Chloride
Concen: 0.274 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013819.D
Acq: 06 Dec 2019 23:38

Tgt Ion: 84 Resp: 1881
Ion Ratio Lower Upper
84 100
49 88.3 99.7 149.5#
51 14.6 29.9 44.9#
86 77.2 52.2 78.4





#25

2-Butanone

Concen: 0.249 ug/l

RT: 4.65 min Scan# 618

Delta R.T. -0.00 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

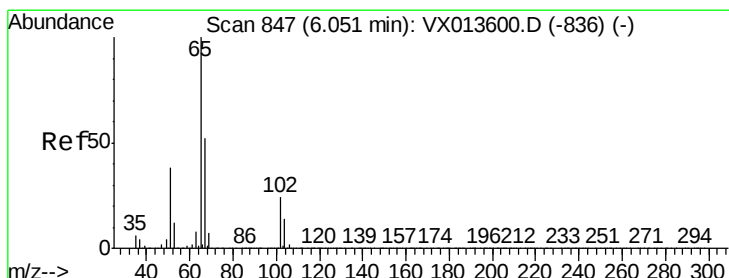
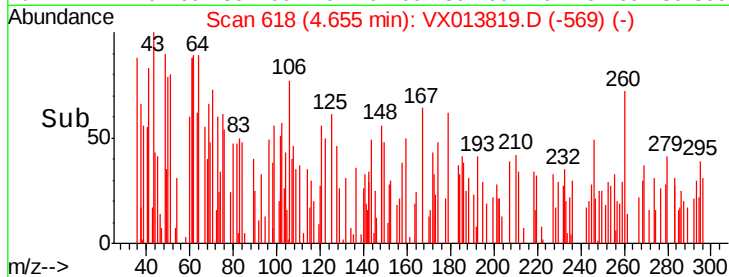
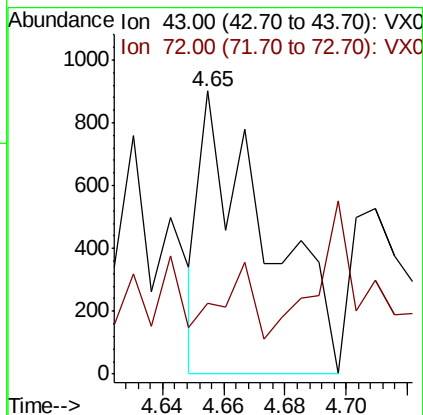
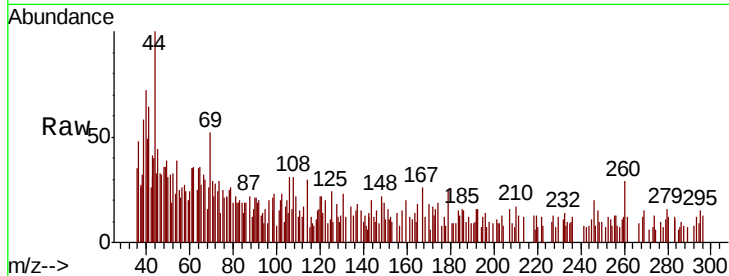
RE104D3-20191204

Tot Ion: 43 Resp: 1325

Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#



#33

1,2-Dichloroethane-d4

Concen: 47.656 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013819.D

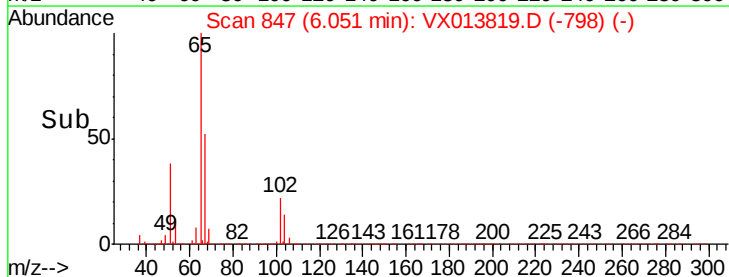
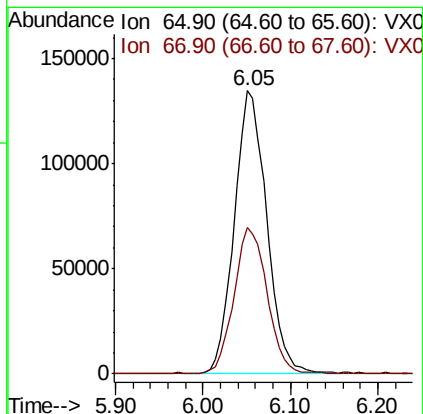
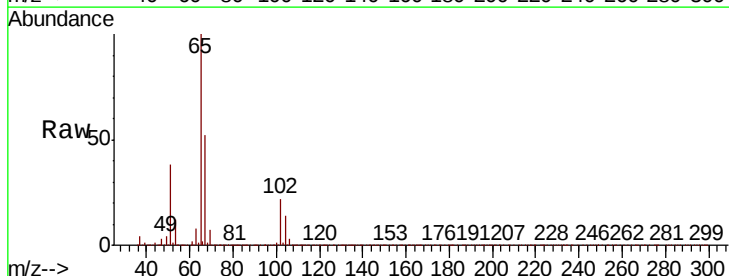
Acq: 06 Dec 2019 23:38

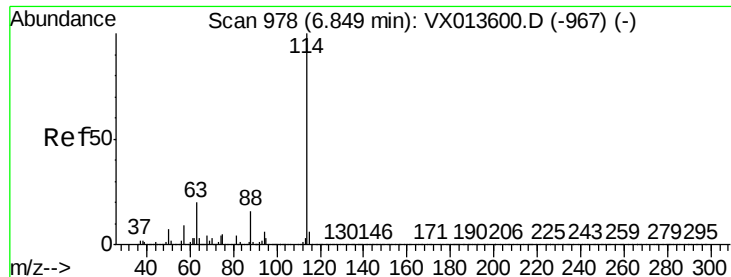
Tgt Ion: 65 Resp: 345385

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: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20191204

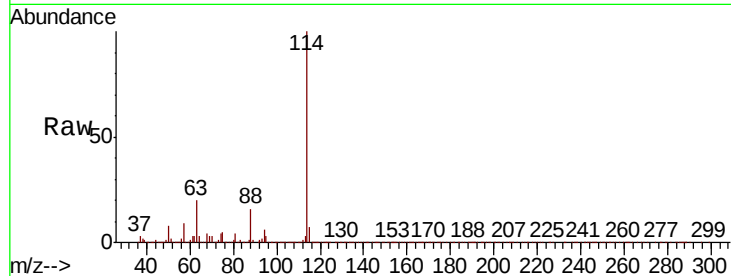
Tot Ion:114 Resp: 962642

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

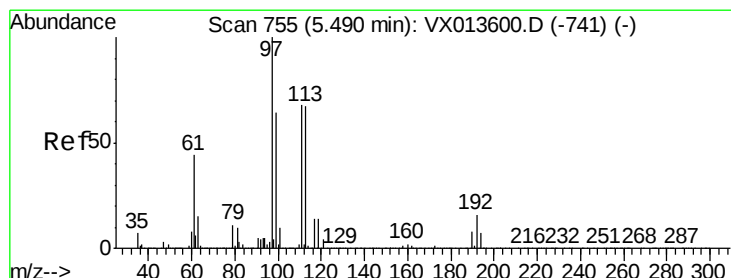
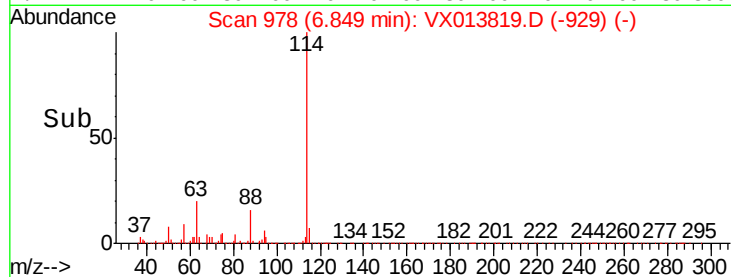
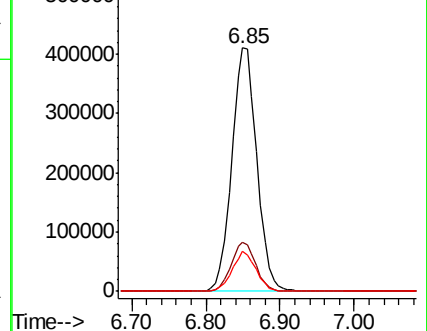
88 16.2 0.0 31.4



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: 48.660 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

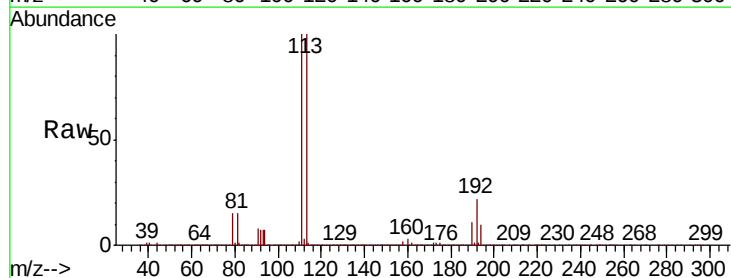
Tgt Ion:113 Resp: 289584

Ion Ratio Lower Upper

113 100

111 101.3 83.6 125.4

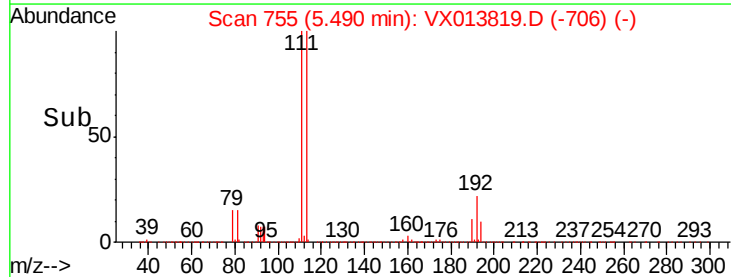
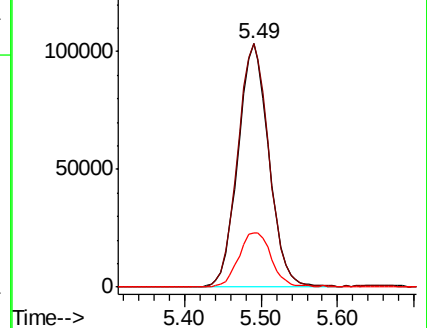
192 24.0 19.2 28.8

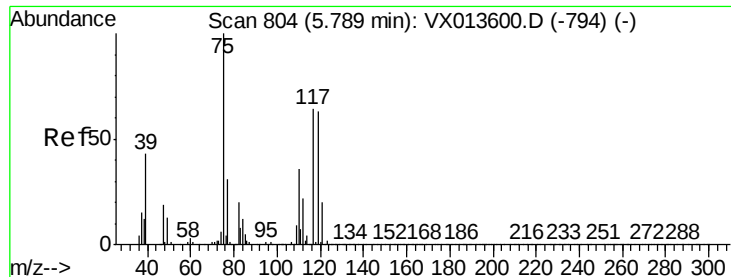


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

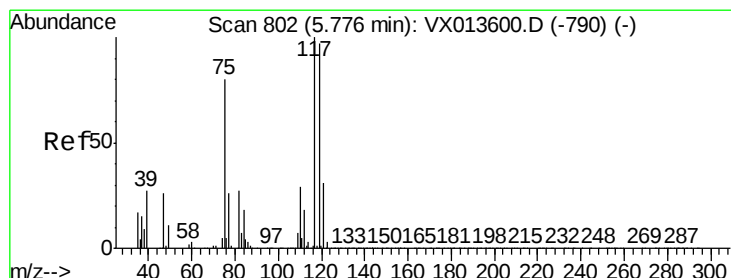
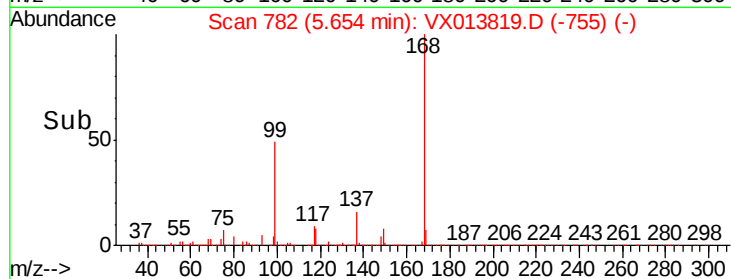
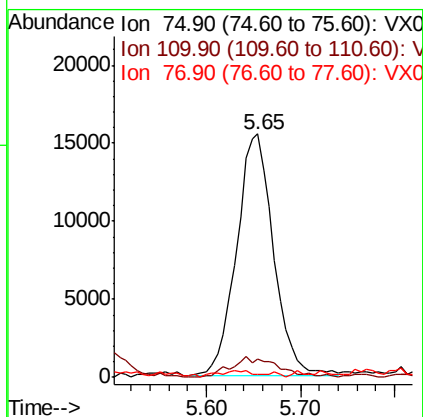
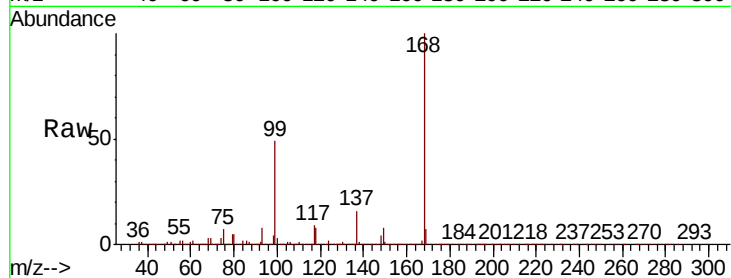




#36
 1,1-Dichloropropene
 Concen: 4.899 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013819.D
 Acq: 06 Dec 2019 23:38

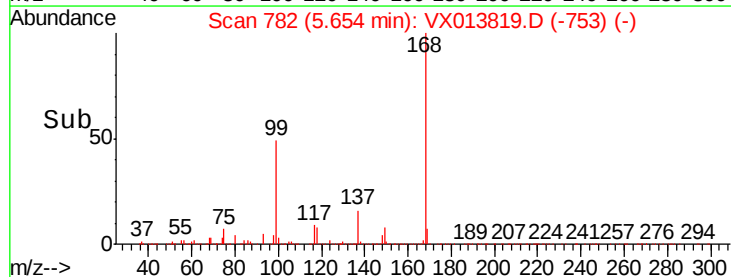
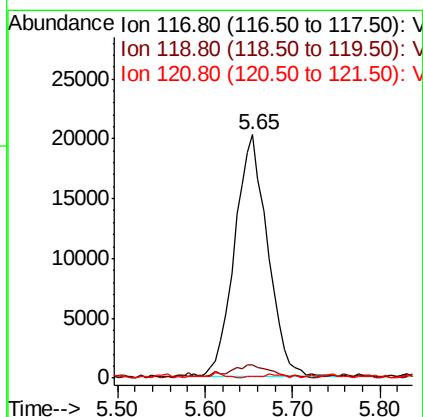
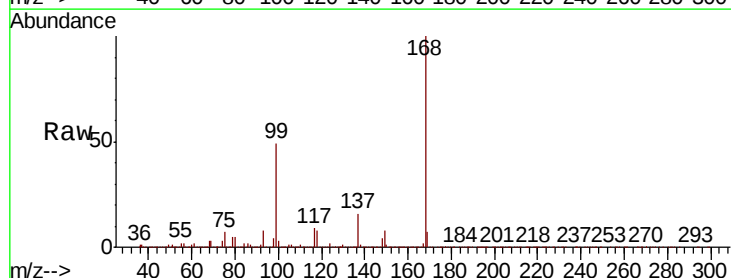
Instrument :
 MSVOA_X
 ClientSampleId :
 RE104D3-20191204

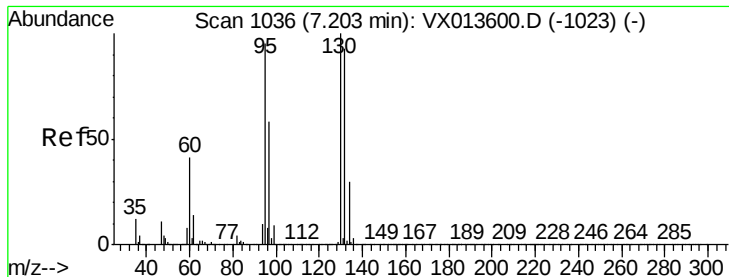
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.1	54.1#
77	0.7	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.618 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013819.D
 Acq: 06 Dec 2019 23:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	77.5	116.3#
121	0.0	25.0	37.6#





#44

Trichloroethene

Concen: 0.336 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

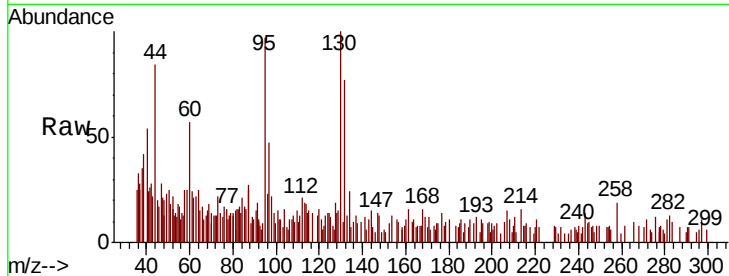
RE104D3-20191204

Tot Ion:130 Resp: 2456

Ion Ratio Lower Upper

130 100

95 84.6 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

1500

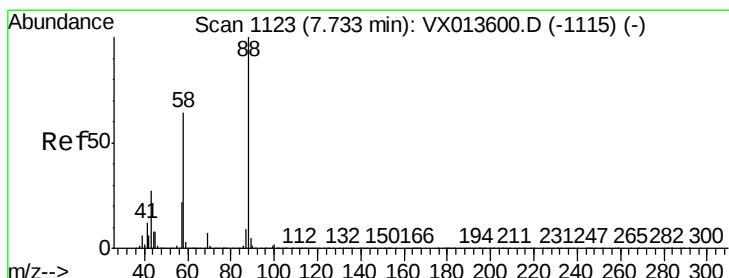
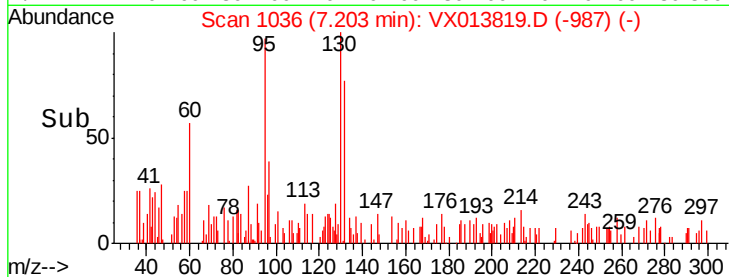
1000

500

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 1.760 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

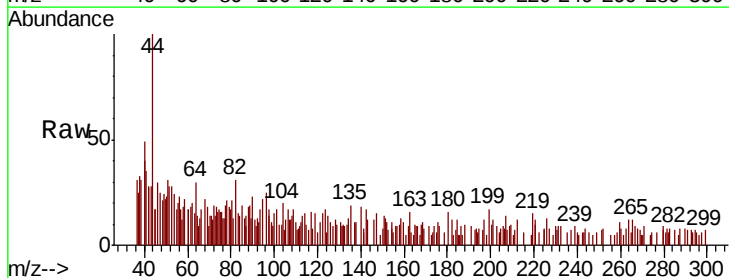
Tgt Ion: 88 Resp: 309

Ion Ratio Lower Upper

88 100

43 119.7 25.8 38.6#

58 0.0 54.6 82.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

600

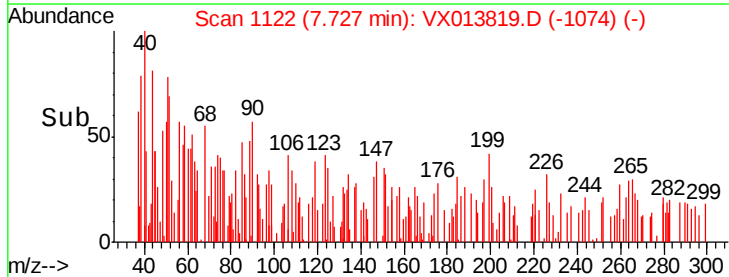
400

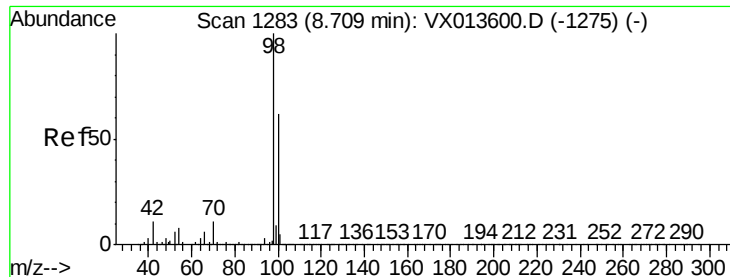
200

0

7.70 7.72 7.74

Time-->





#50

Toluene-d8

Concen: 48.508 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

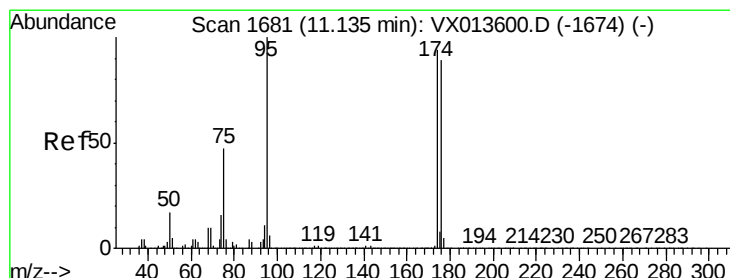
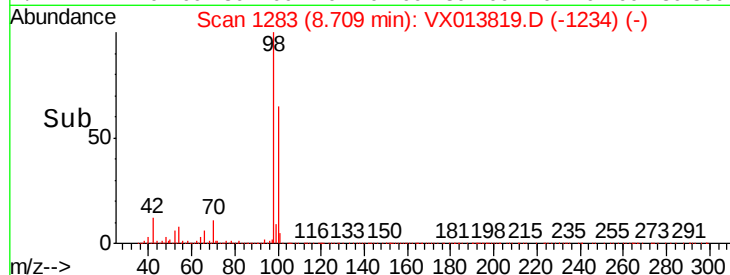
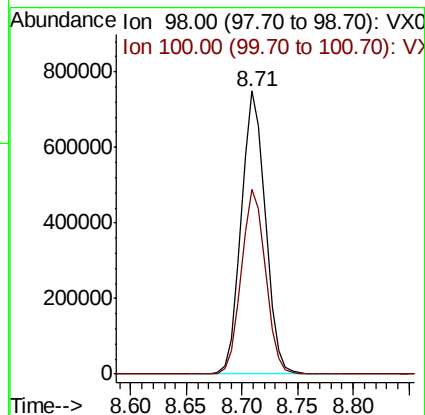
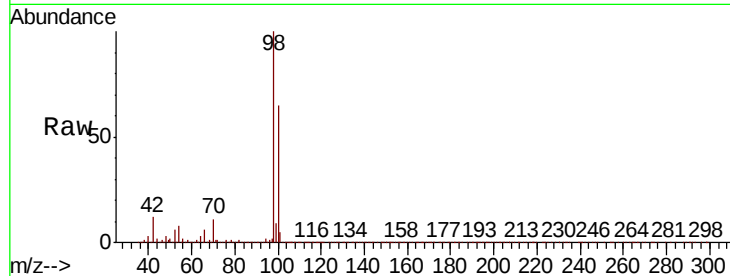
RE104D3-20191204

Tot Ion: 98 Resp: 1124736

Ion Ratio Lower Upper

98 100

100 65.7 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 44.776 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

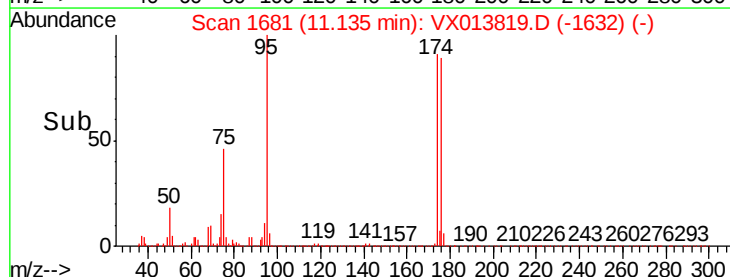
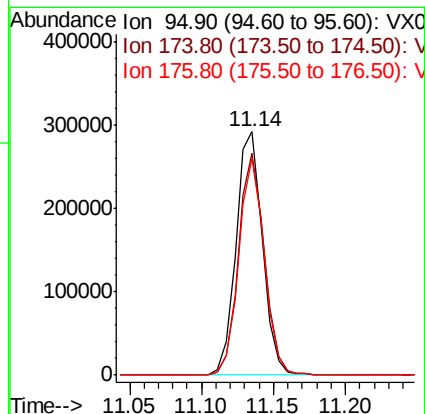
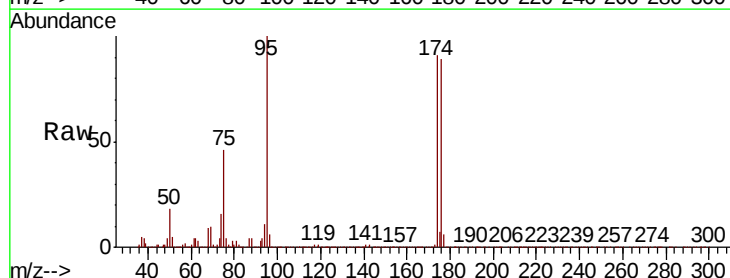
Tgt Ion: 95 Resp: 374377

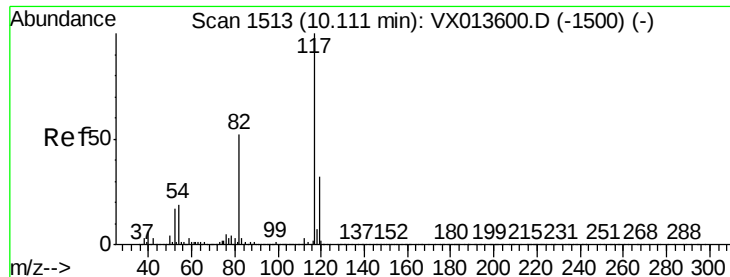
Ion Ratio Lower Upper

95 100

174 88.7 0.0 180.0

176 86.3 0.0 173.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

RE104D3-20191204

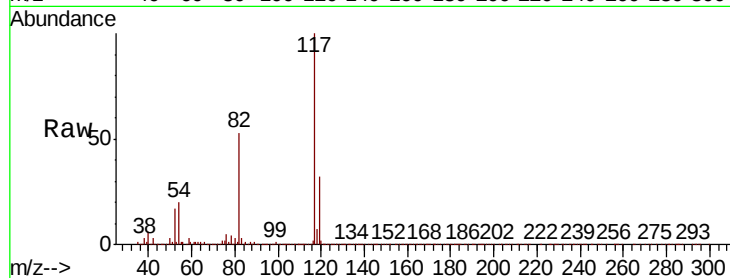
Tot Ion:117 Resp: 848909

Ion Ratio Lower Upper

117 100

82 52.9 41.8 62.8

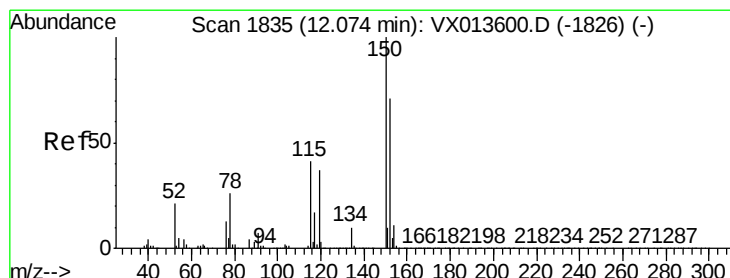
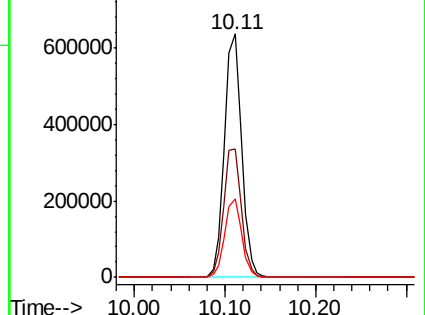
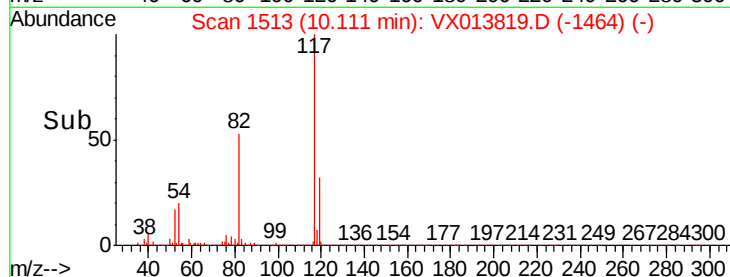
119 32.4 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

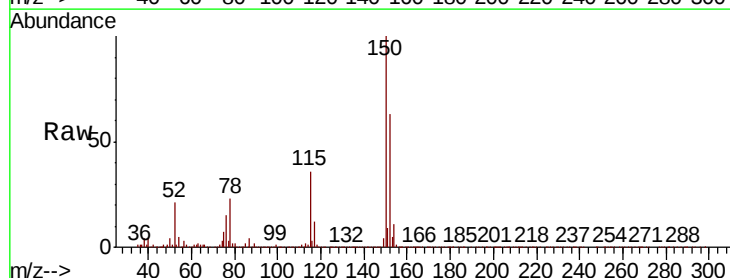
Tgt Ion:152 Resp: 360835

Ion Ratio Lower Upper

152 100

115 56.8 38.4 115.1

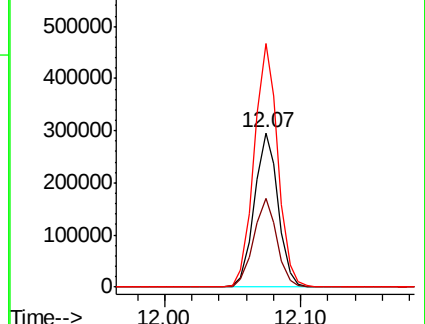
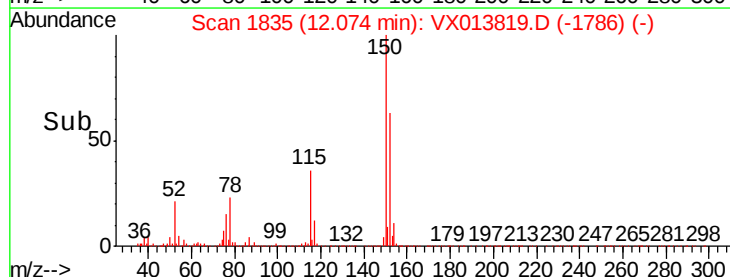
150 158.1 0.0 346.8

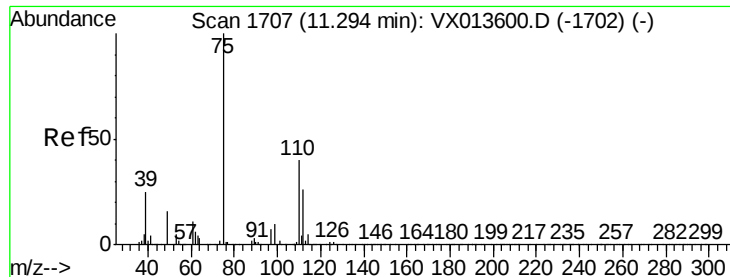


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.346 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

Instrument :

MSVOA_X

ClientSampleId :

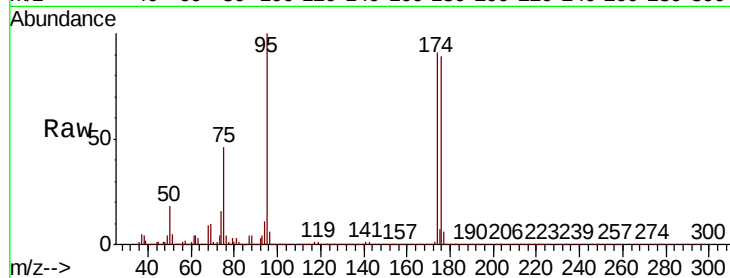
RE104D3-20191204

Tot Ion: 75 Resp: 181352

Ion Ratio Lower Upper

75 100

77 1.8 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

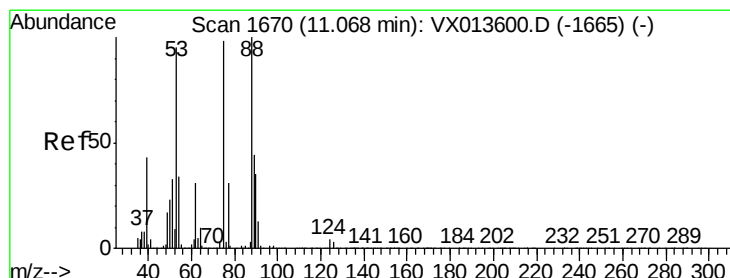
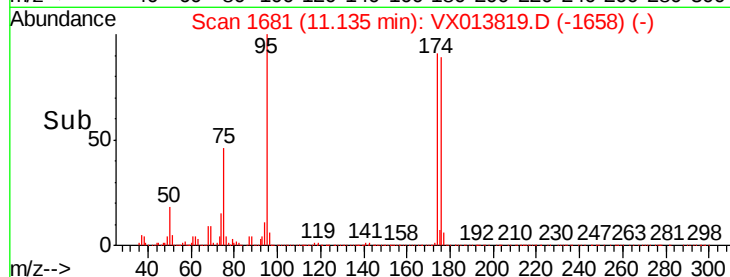
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.133 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013819.D

Acq: 06 Dec 2019 23:38

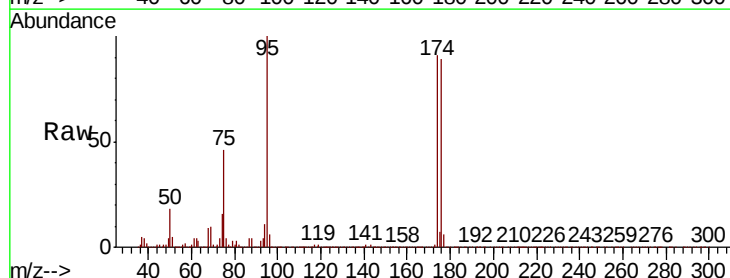
Tgt Ion: 75 Resp: 181352

Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

89 0.0 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-->

