

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX0137863.D
 Acq On : 09 Dec 2019 20:04
 Operator : JC/SP
 Sample : K6185-11DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 10 03:29:07 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	610786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	928712	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	829693	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	358729	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	343815	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
35) Dibromofluoromethane	5.49	113	279352	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
50) Toluene-d8	8.71	98	1111583	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	11.14	95	366965	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

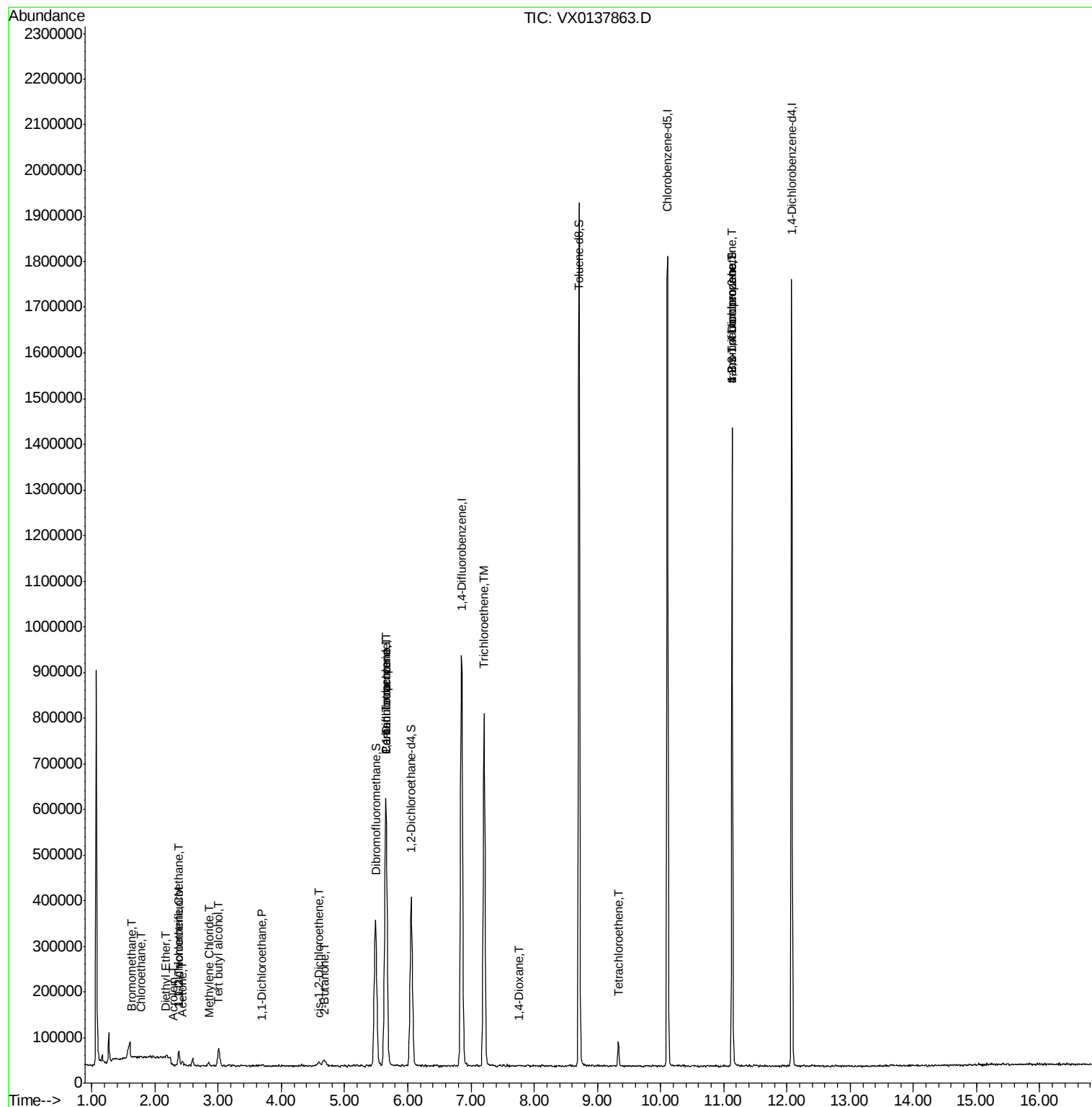
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	1202	0.208	ug/l #	2
6) Chloroethane	1.77	64	1018	0.208	ug/l #	51
8) Diethyl Ether	2.17	74	955	0.221	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	2.37	101	13702	2.353	ug/l	98
11) Tert butyl alcohol	3.00	59	24033	13.733	ug/l #	84
12) 1,1-Dichloroethene	2.36	96	2059	0.354	ug/l #	84
13) Acrolein	2.28	56	554	6.466	ug/l	100
16) Acetone	2.43	43	11918	3.405	ug/l	98
20) Methylene Chloride	2.85	84	4870	0.724	ug/l #	75
24) 1,1-Dichloroethane	3.68	63	3706	0.334	ug/l #	67
25) 2-Butanone	4.67	43	5164	0.993	ug/l #	57
27) cis-1,2-Dichloroethene	4.59	96	6516	0.896	ug/l	88
36) 1,1-Dichloropropene	5.65	75	41671	4.943	ug/l #	52
38) Carbon Tetrachloride	5.65	117	53287	6.855	ug/l #	15
44) Trichloroethene	7.21	130	316686	44.941	ug/l	98
49) 1,4-Dioxane	7.75	88	1101	6.502	ug/l #	69
64) Tetrachloroethene	9.33	164	10541	1.704	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	178915	22.175	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	178915	60.666	ug/l #	11

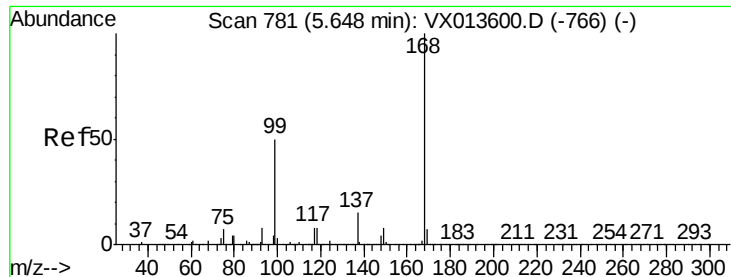
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 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: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

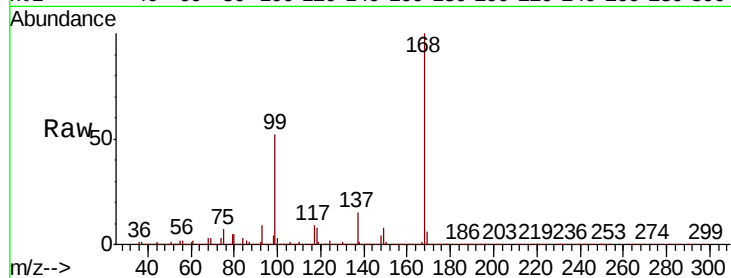
ClientSampleId :

Tot Ion:168 Resp: 610786

Ion Ratio Lower Upper

168 100

99 51.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

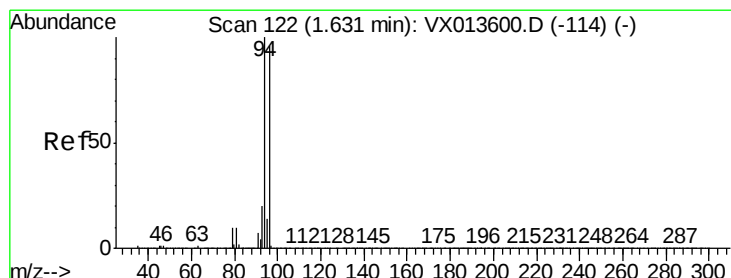
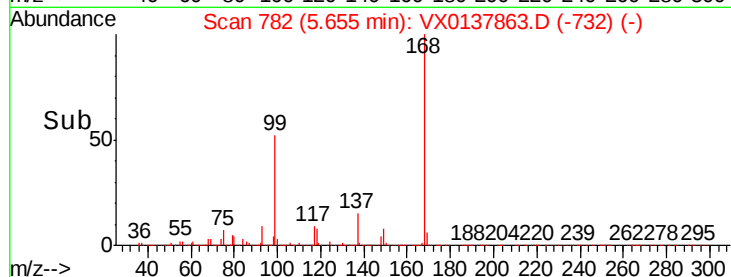
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.208 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX0137863.D

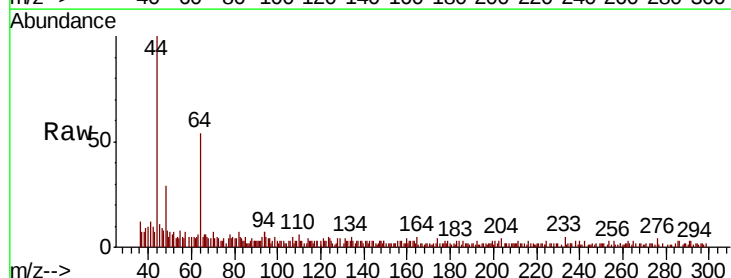
Acq: 09 Dec 2019 20:04

Tgt Ion: 94 Resp: 1202

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

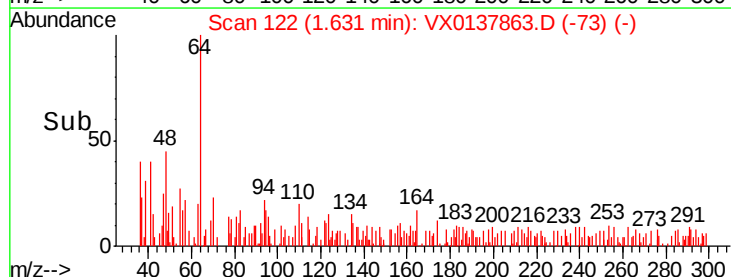
400

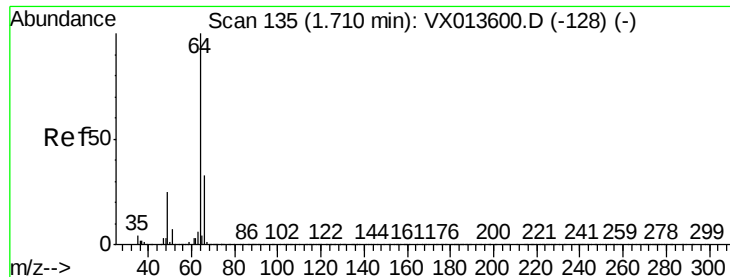
200

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: 0.208 ug/l

RT: 1.77 min Scan# 145

Delta R.T. 0.06 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

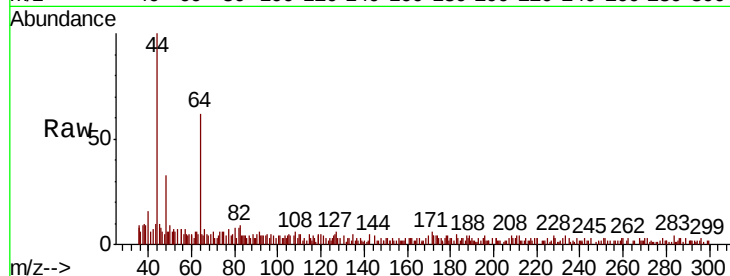
ClientSampleId :

Tot Ion: 64 Resp: 1018

Ion Ratio Lower Upper

64 100

66 5.8 26.7 40.1#

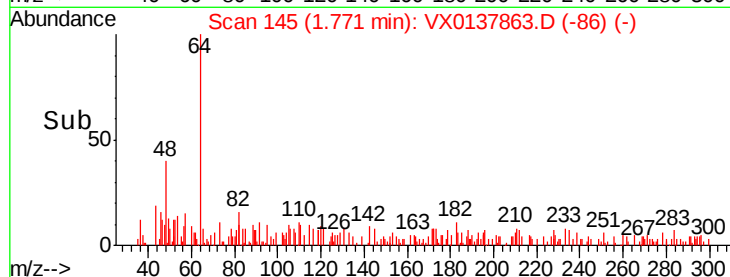


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.77

Time-->

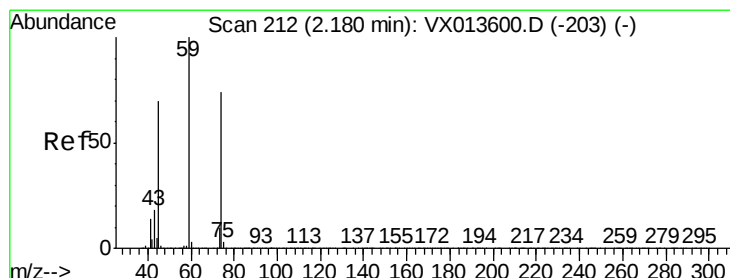


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.77

Time-->



#8

Diethyl Ether

Concen: 0.221 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX0137863.D

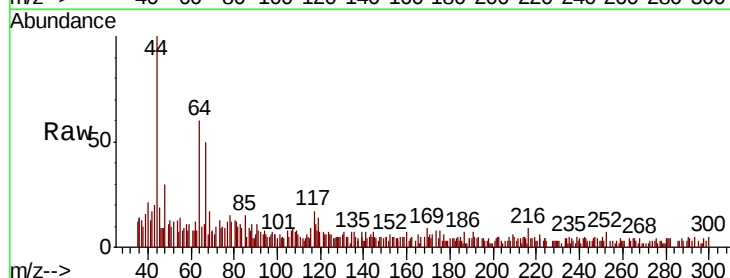
Acq: 09 Dec 2019 20:04

Tgt Ion: 74 Resp: 955

Ion Ratio Lower Upper

74 100

45 73.4 48.9 146.8

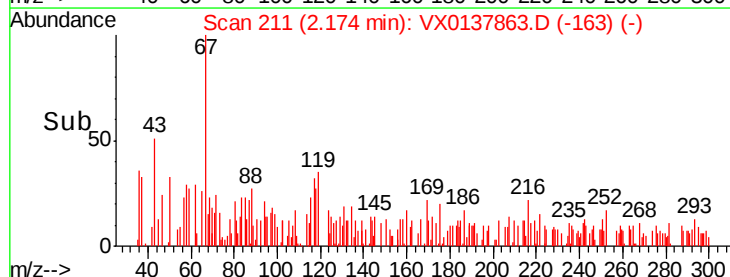


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

Time-->

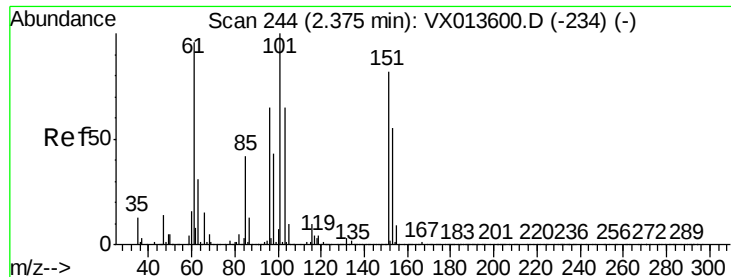


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.353 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

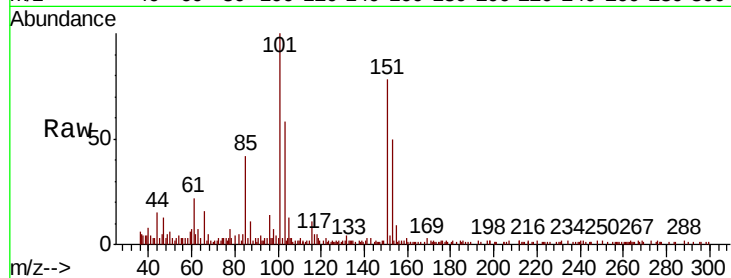
Tot Ion:101 Resp: 13702

Ion Ratio Lower Upper

101 100

85 41.4 33.9 50.9

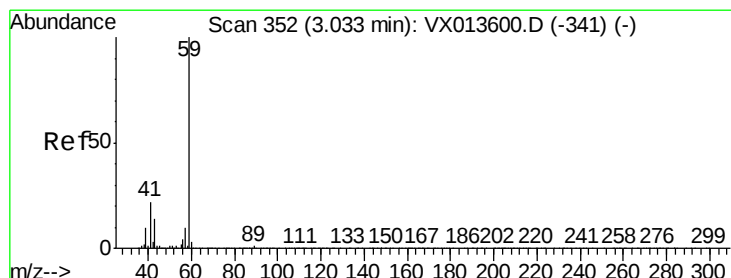
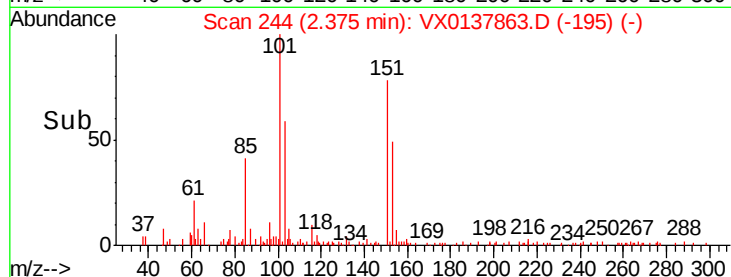
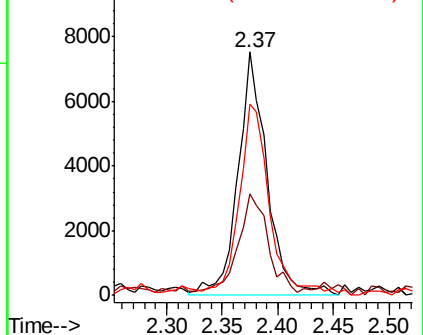
151 82.5 64.2 96.2



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: 13.733 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.03 min

Lab File: VX0137863.D

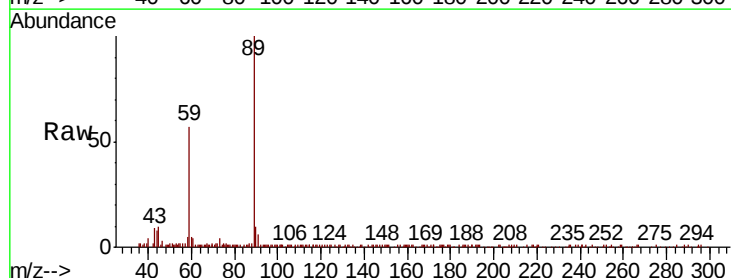
Acq: 09 Dec 2019 20:04

Tgt Ion: 59 Resp: 24033

Ion Ratio Lower Upper

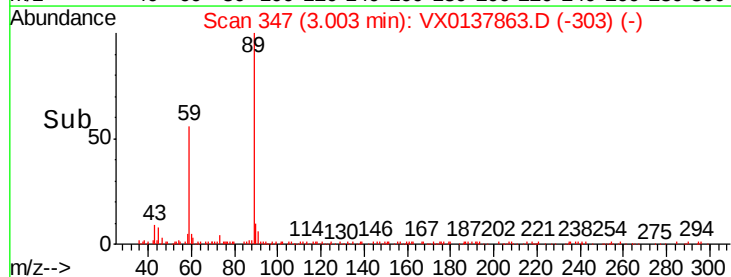
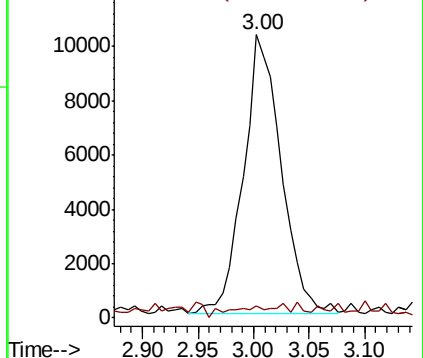
59 100

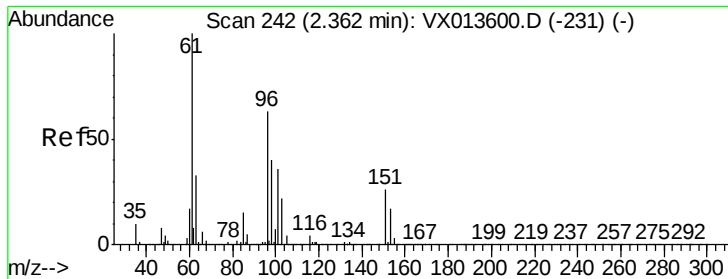
57 3.8 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.354 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

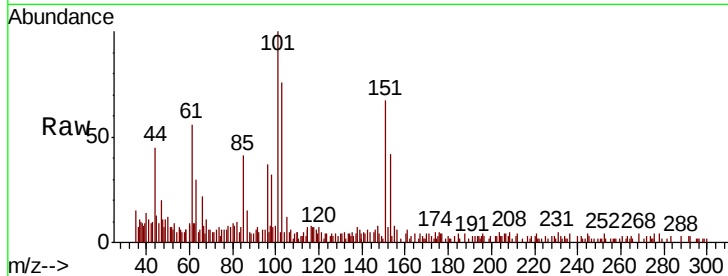
Tot Ion: 96 Resp: 2059

Ion Ratio Lower Upper

96 100

61 152.8 126.6 190.0

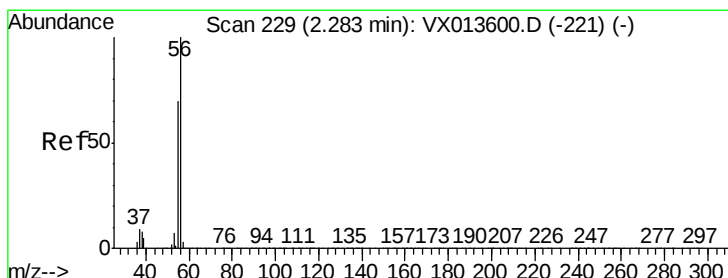
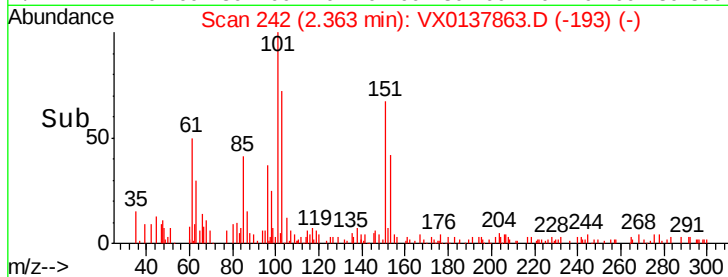
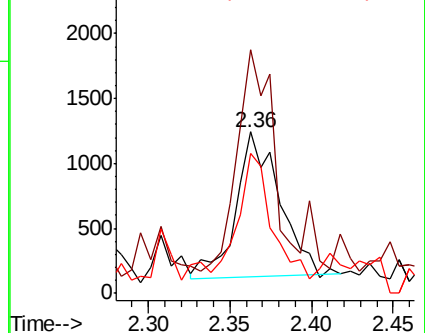
98 99.2 50.6 76.0#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 6.466 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX0137863.D

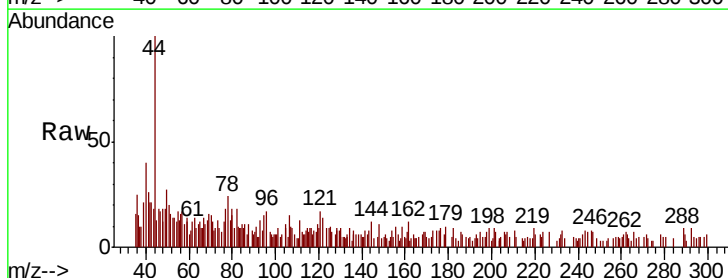
Acq: 09 Dec 2019 20:04

Tgt Ion: 56 Resp: 554

Ion Ratio Lower Upper

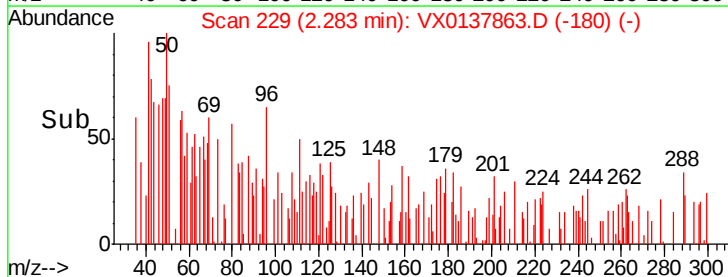
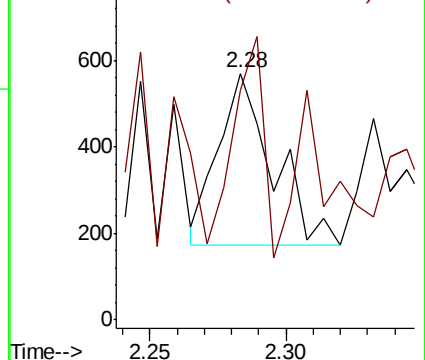
56 100

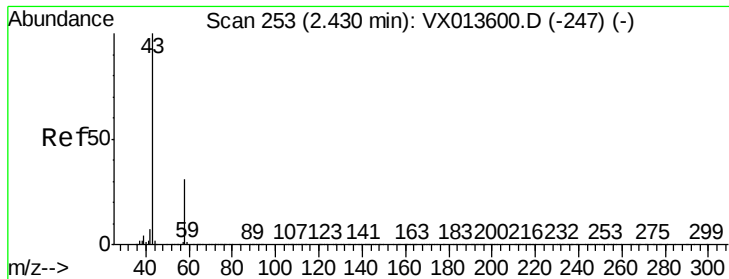
55 70.0 56.2 84.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

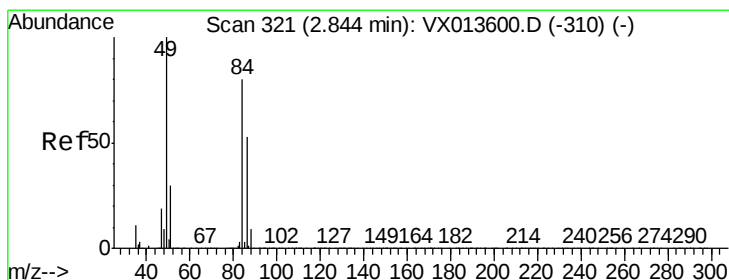
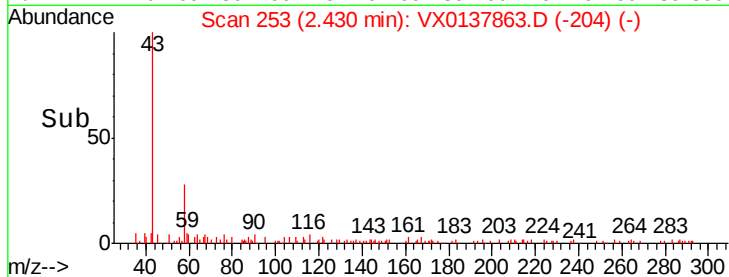
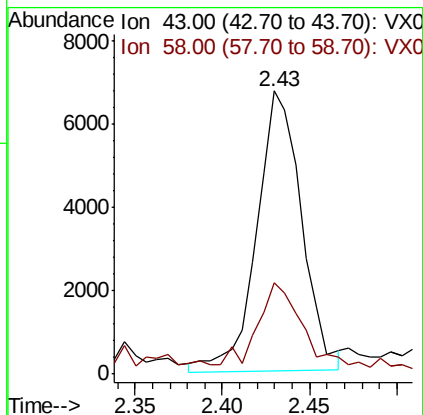
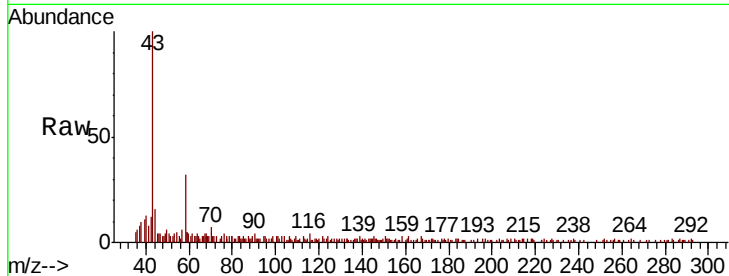




#16
Acetone
Concen: 3.405 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

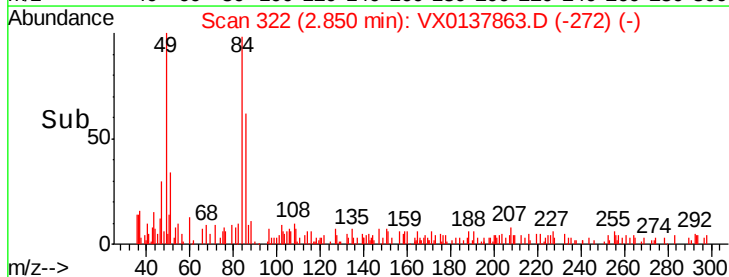
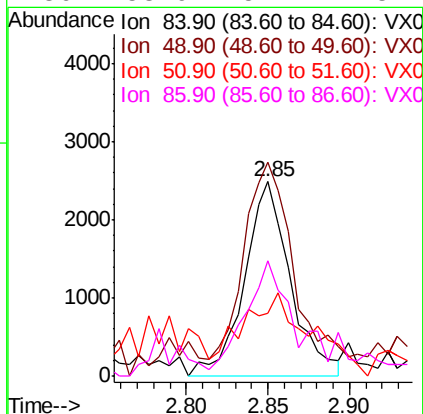
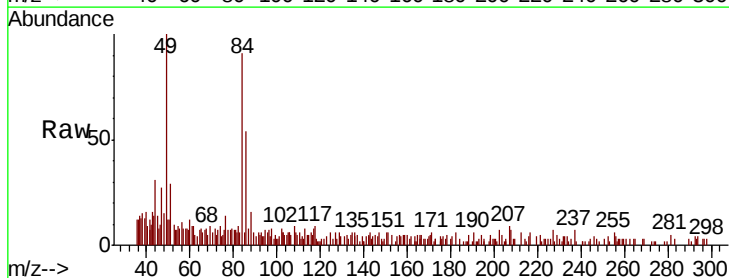
Instrument :
MSVOA_X
ClientSampleId :

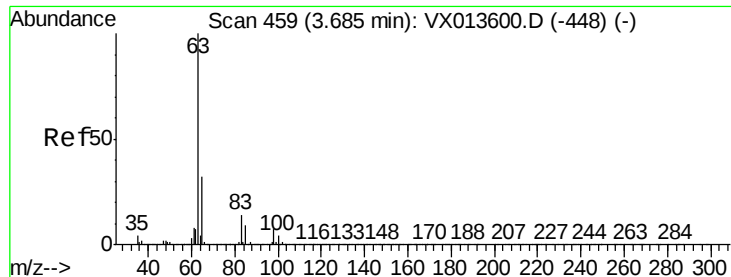
Tot Ion: 43 Resp: 11918
Ion Ratio Lower Upper
43 100
58 29.5 24.6 36.8



#20
Methylene Chloride
Concen: 0.724 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

Tgt Ion: 84 Resp: 4870
Ion Ratio Lower Upper
84 100
49 96.8 99.7 149.5#
51 8.7 29.9 44.9#
86 53.9 52.2 78.4





#24

1,1-Dichloroethane

Concen: 0.334 ug/l

RT: 3.68 min Scan# 458

Delta R.T. -0.01 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

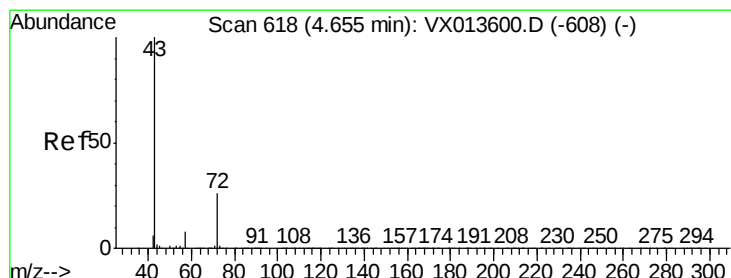
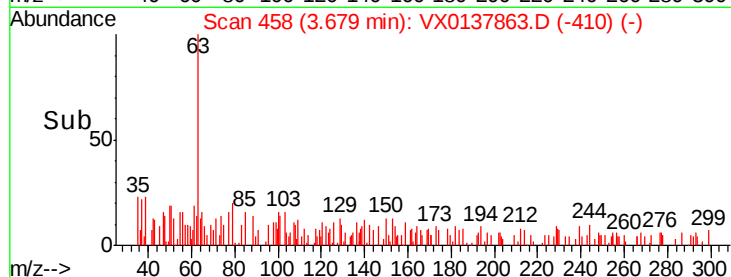
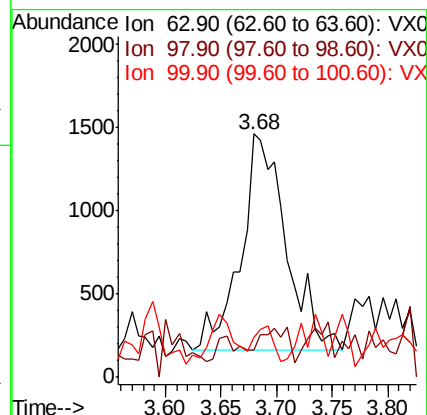
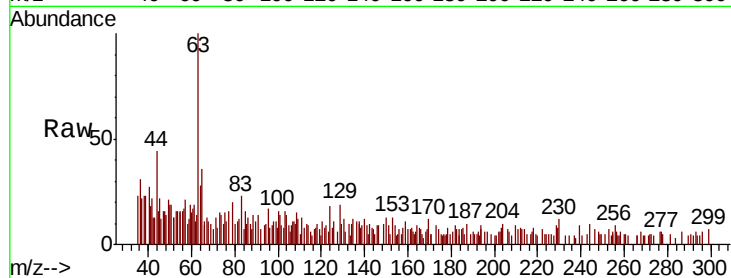
Tot Ion: 63 Resp: 3706

Ion Ratio Lower Upper

63 100

98 1.1 3.5 10.4#

100 23.4 2.1 6.3#



#25

2-Butanone

Concen: 0.993 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX0137863.D

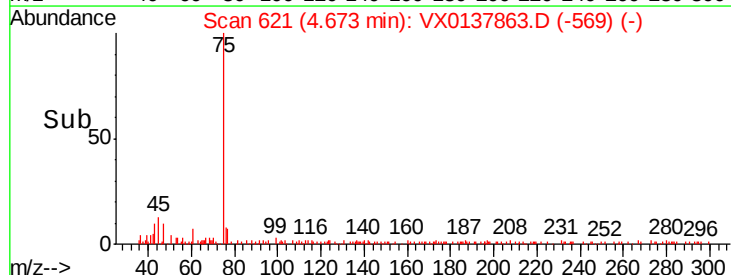
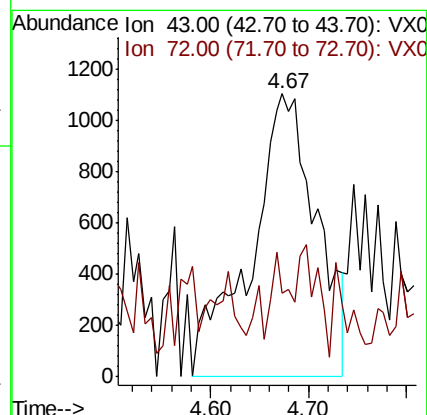
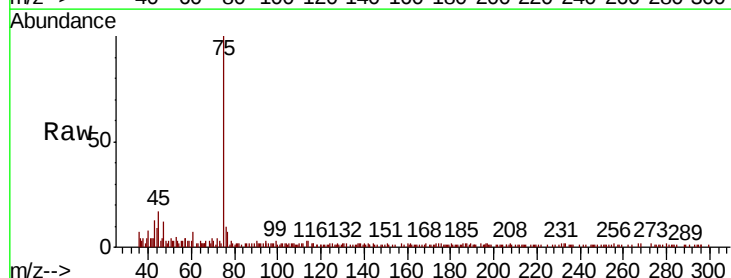
Acq: 09 Dec 2019 20:04

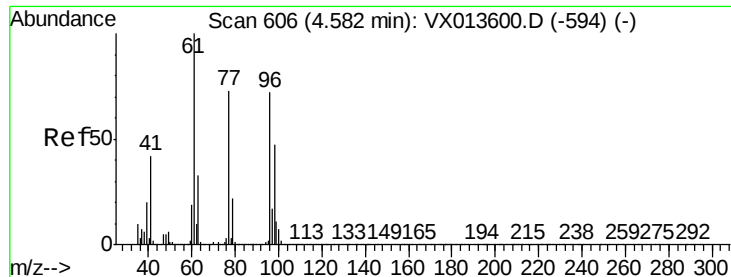
Tgt Ion: 43 Resp: 5164

Ion Ratio Lower Upper

43 100

72 4.0 20.6 31.0#



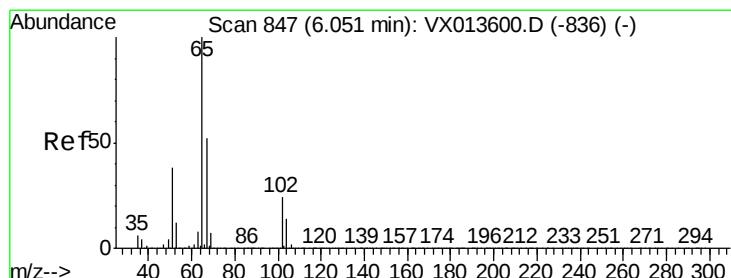
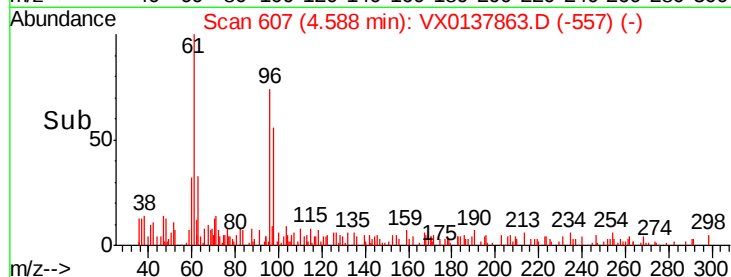
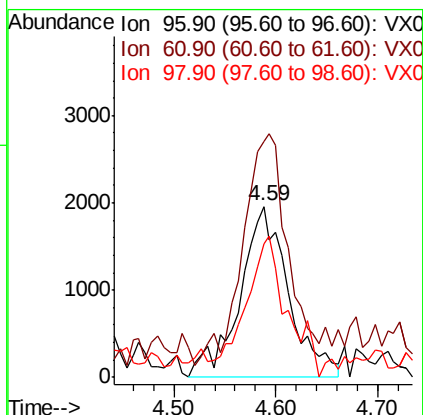
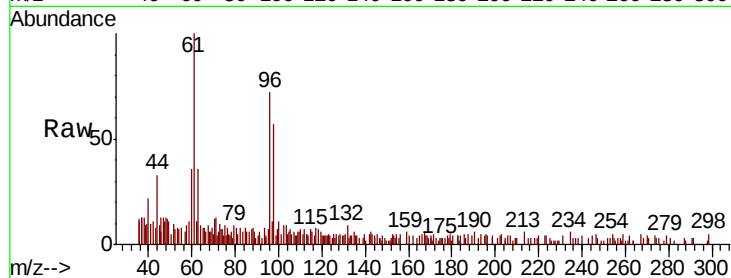


#27

cis-1,2-Dichloroethene
Concen: 0.896 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

Instrument :
MSVOA_X
ClientSampleId :

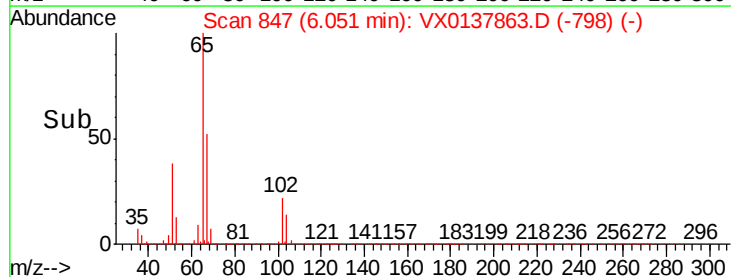
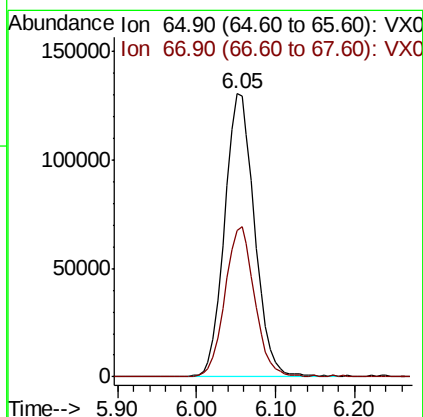
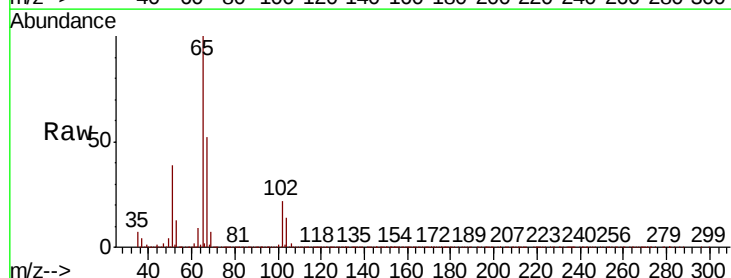
Tot Ion	Ratio	Lower	Upper
96	100		
61	124.6	0.0	286.4
98	60.7	0.0	127.4

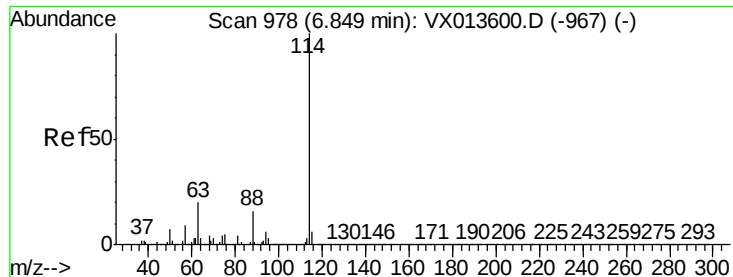


#33

1,2-Dichloroethane-d4
Concen: 48.494 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.2	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: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

ClientSampled :

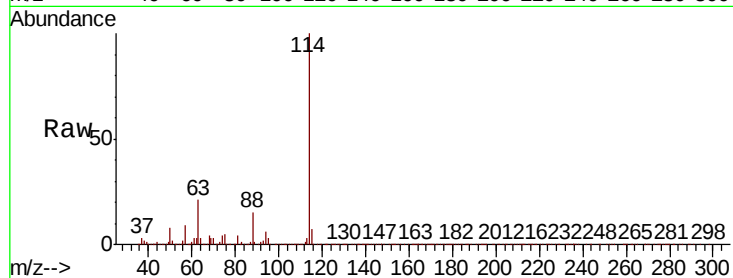
Tot Ion:114 Resp: 928712

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

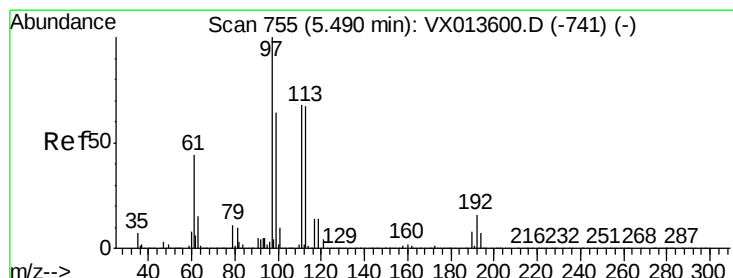
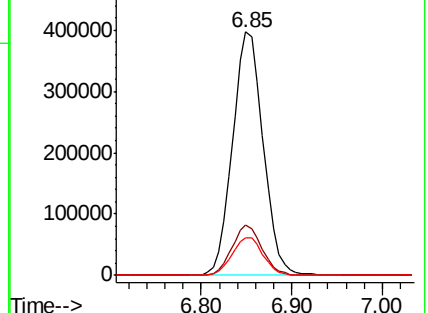
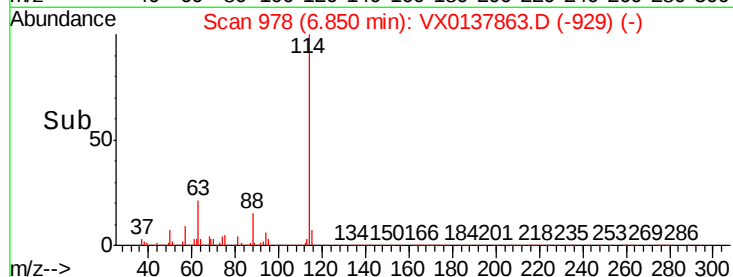
88 15.2 0.0 31.4



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: 48.656 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

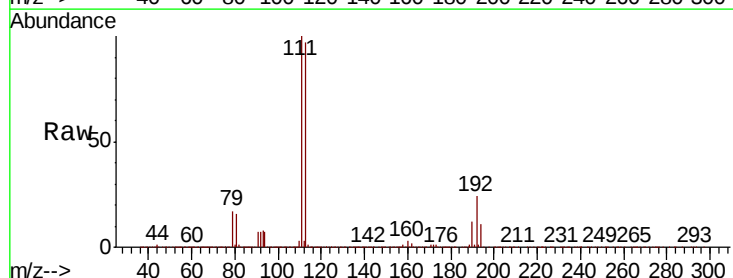
Tgt Ion:113 Resp: 279352

Ion Ratio Lower Upper

113 100

111 103.4 83.6 125.4

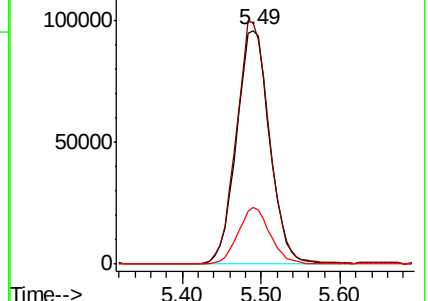
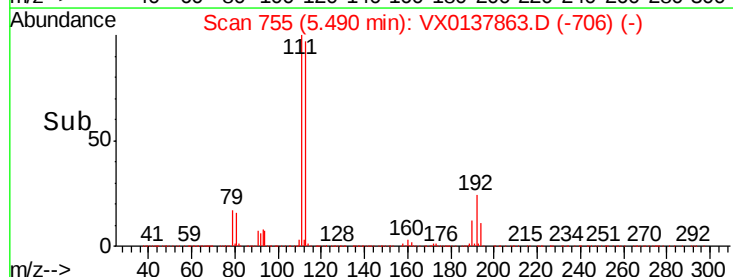
192 23.3 19.2 28.8

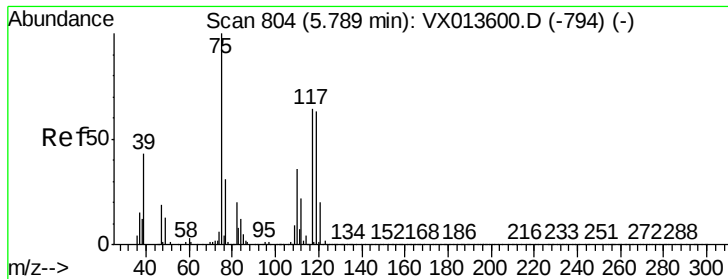


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.943 ug/l

RT: 5.65 min Scan# 781

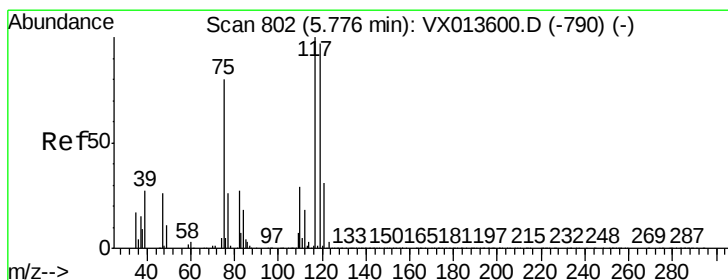
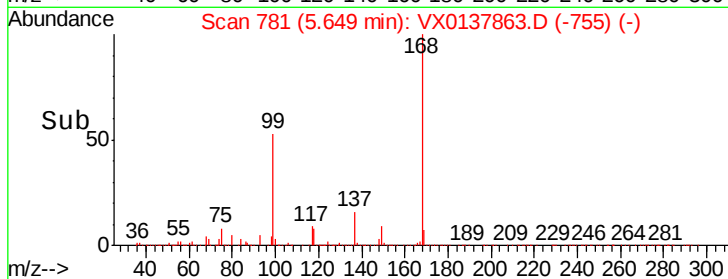
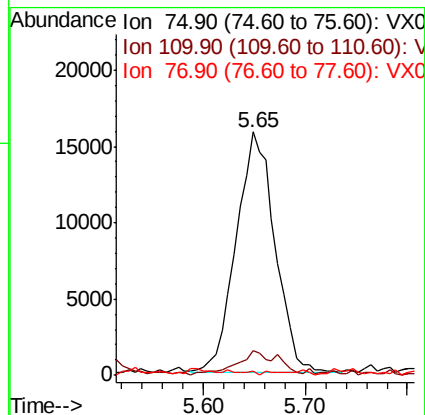
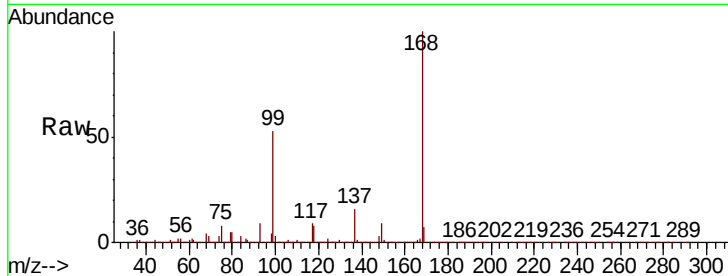
Delta R.T. -0.14 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	41671
Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.1#
77	0.8	24.5	36.7#



#38

Carbon Tetrachloride

Concen: 6.855 ug/l

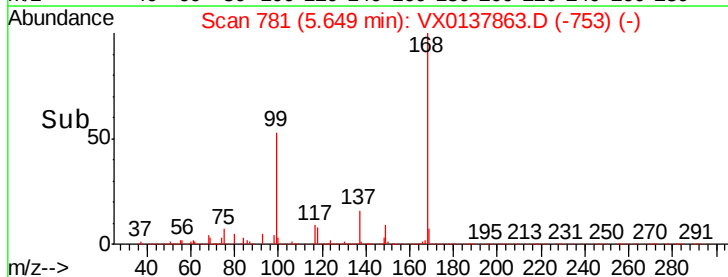
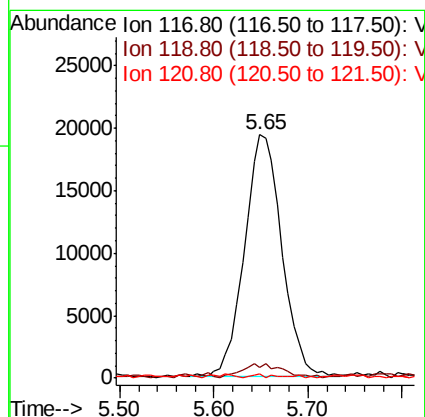
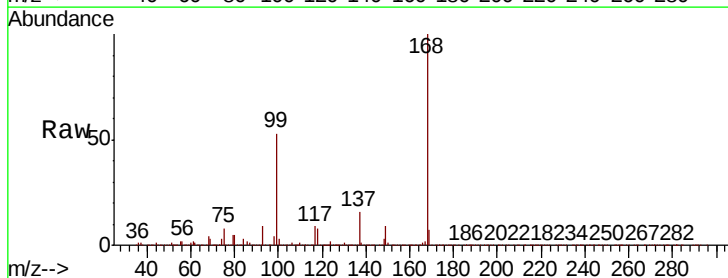
RT: 5.65 min Scan# 781

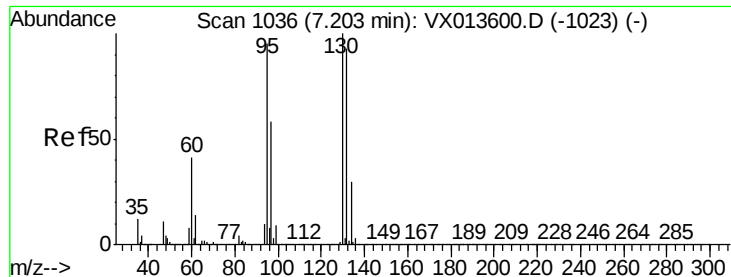
Delta R.T. -0.13 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Tgt Ion:	117	Resp:	53287
Ion	Ratio	Lower	Upper
117	100		
119	3.5	77.5	116.3#
121	0.5	25.0	37.6#





#44

Trichloroethene

Concen: 44.941 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

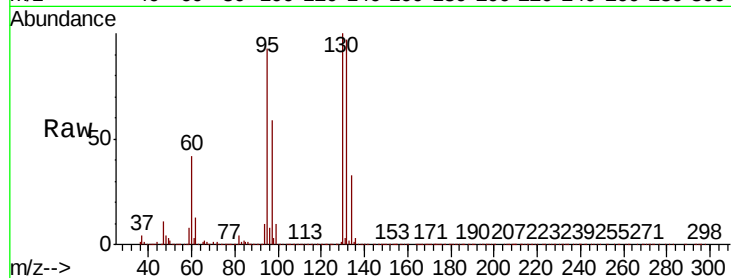
ClientSampleId :

Tot Ion:130 Resp: 316686

Ion Ratio Lower Upper

130 100

95 93.4 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

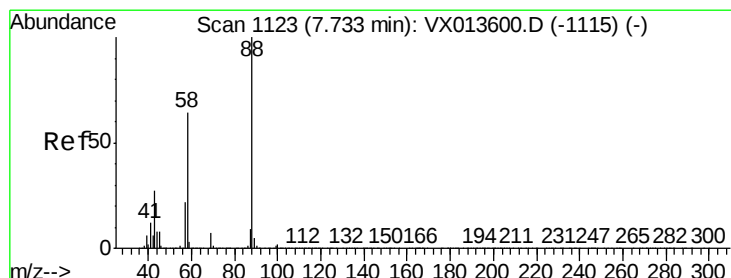
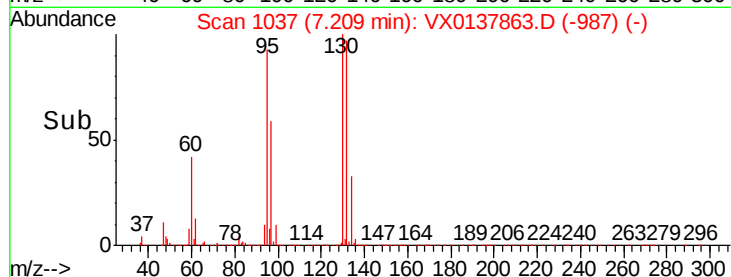
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 6.502 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

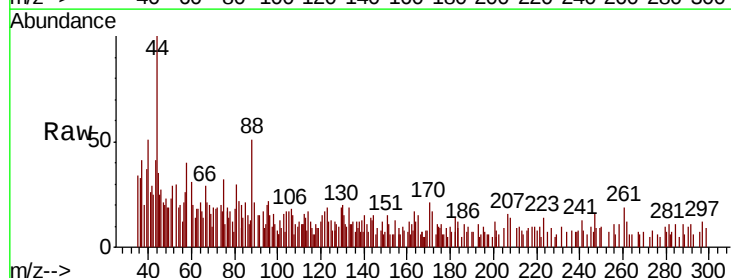
Tgt Ion: 88 Resp: 1101

Ion Ratio Lower Upper

88 100

43 31.1 25.8 38.6

58 32.0 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

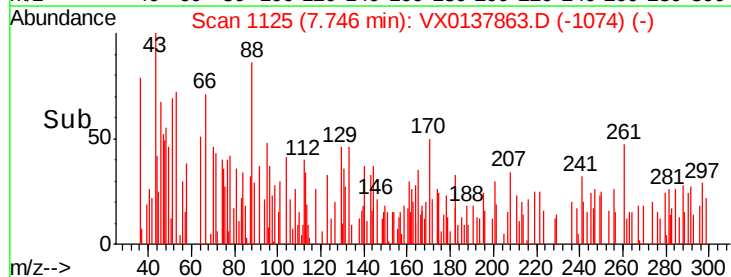
600

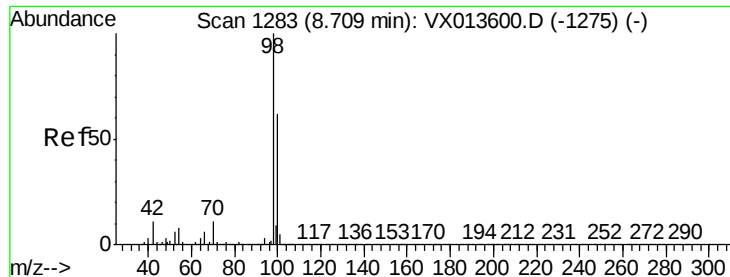
400

200

0

Time-->





#50

Toluene-d8

Concen: 49.693 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

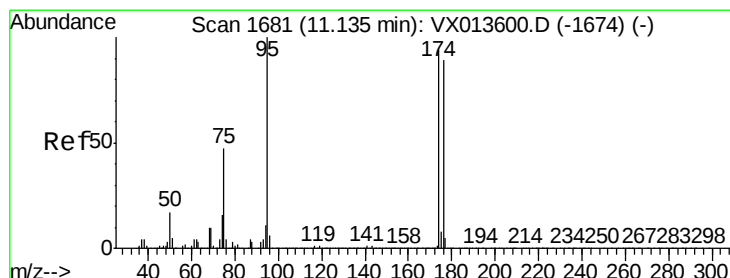
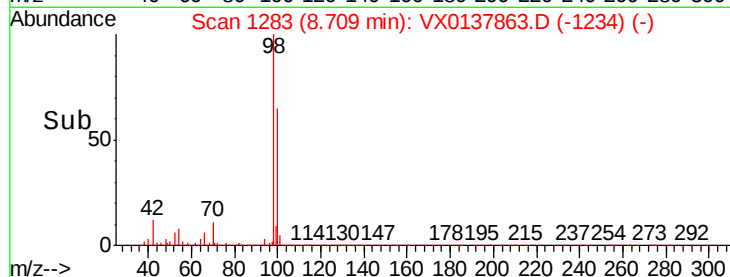
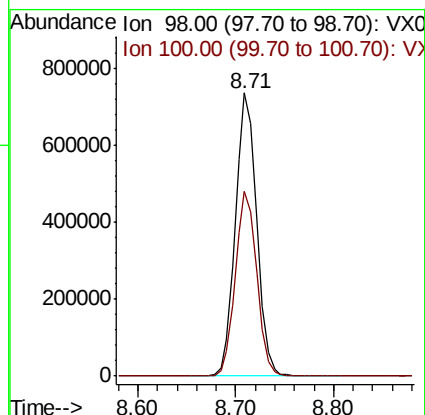
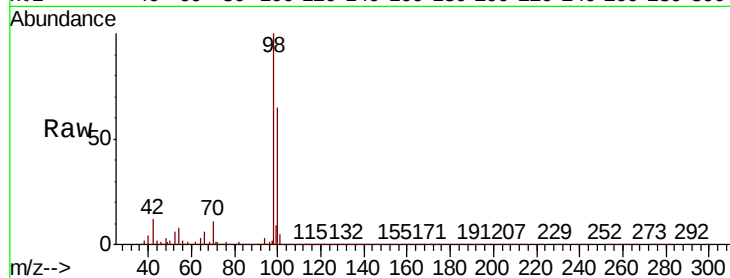
ClientSampleId :

Tot Ion: 98 Resp: 1111583

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 45.493 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

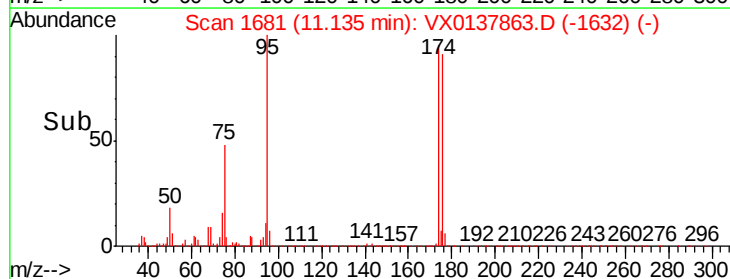
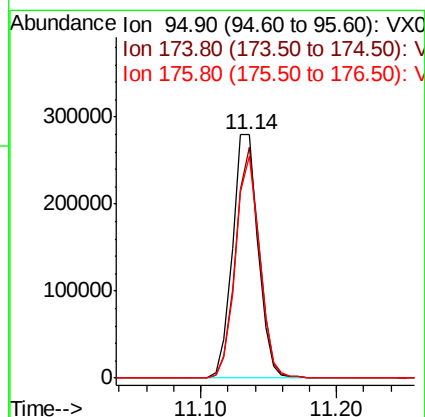
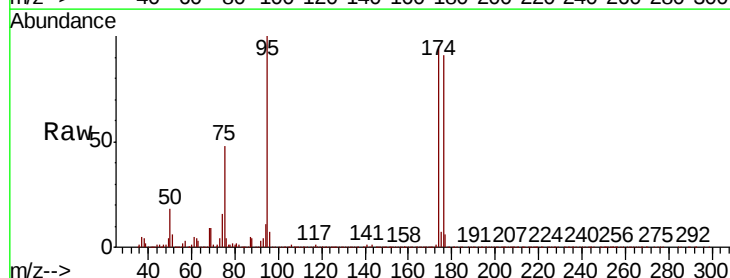
Tgt Ion: 95 Resp: 366965

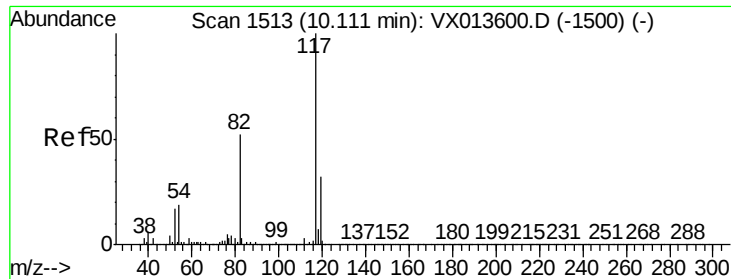
Ion Ratio Lower Upper

95 100

174 88.5 0.0 180.0

176 86.2 0.0 173.6

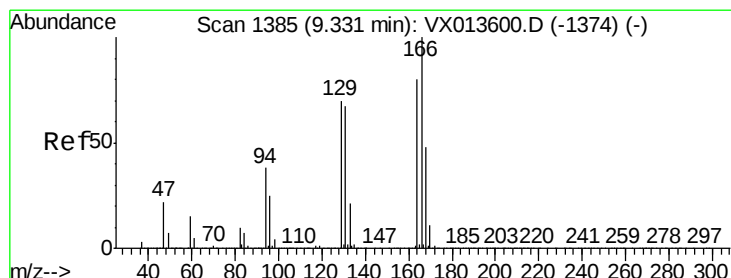
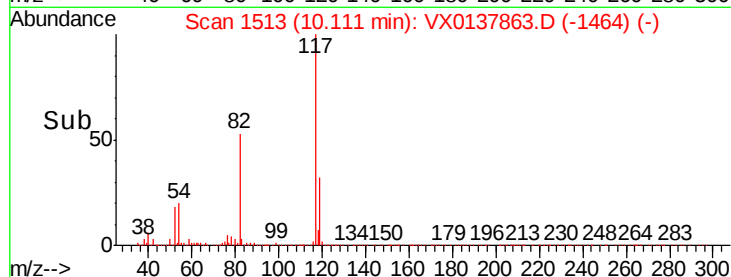
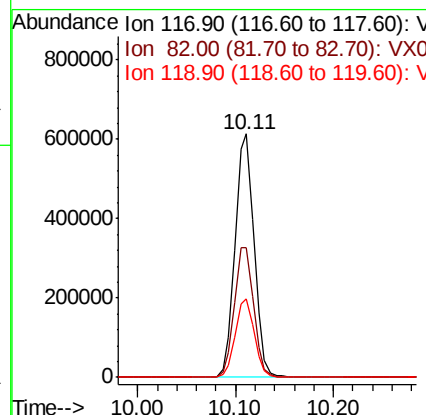
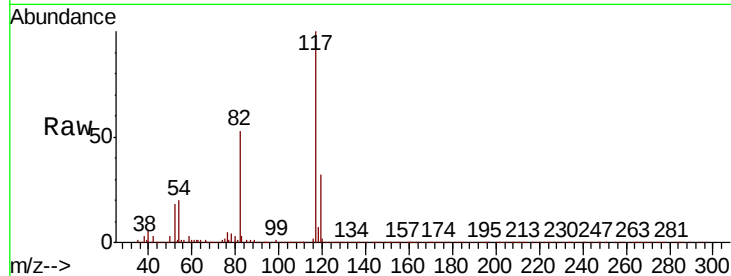




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

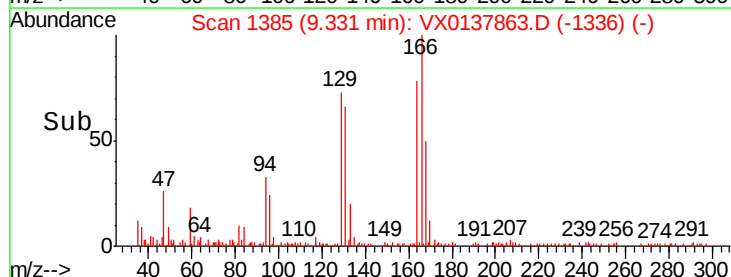
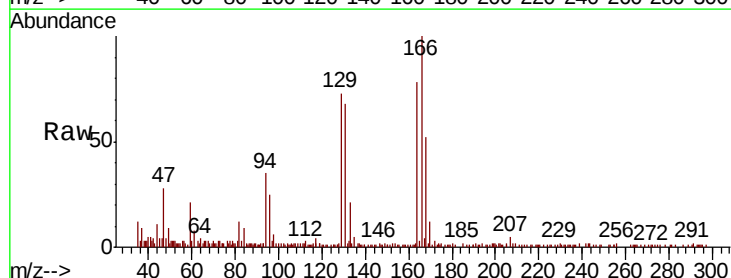
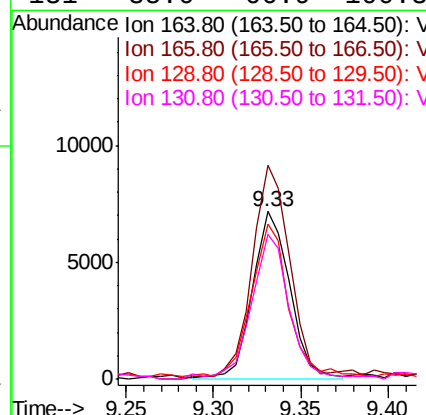
Instrument :
MSVOA_X
ClientSampleId :

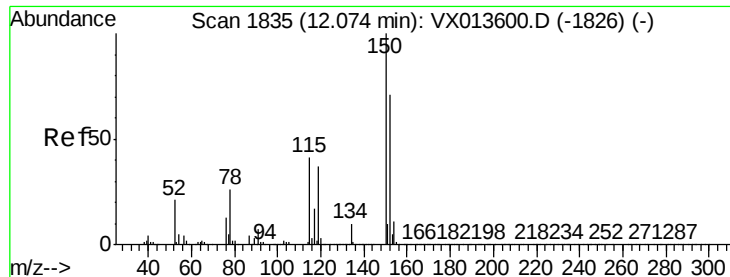
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	41.8	62.8
119	32.3	25.8	38.8



#64
Tetrachloroethene
Concen: 1.704 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.1	99.7	149.5
129	91.0	70.1	105.1
131	85.0	66.9	100.3



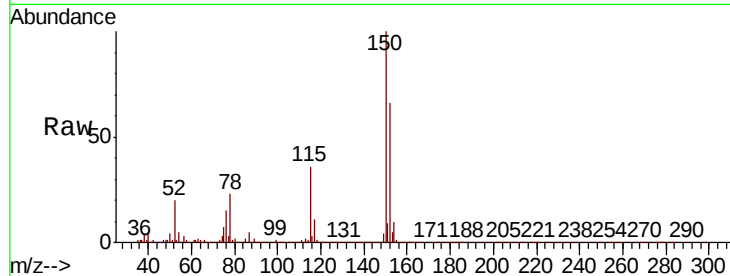


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.6	38.4	115.1
150	155.7	0.0	346.8

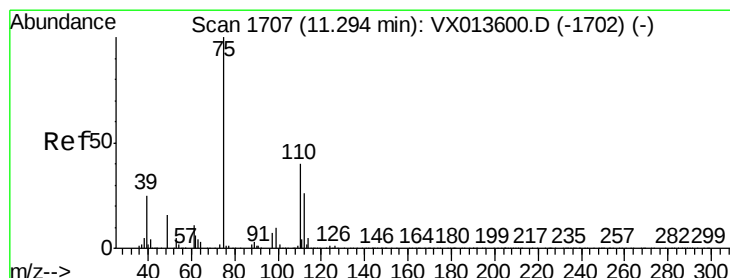
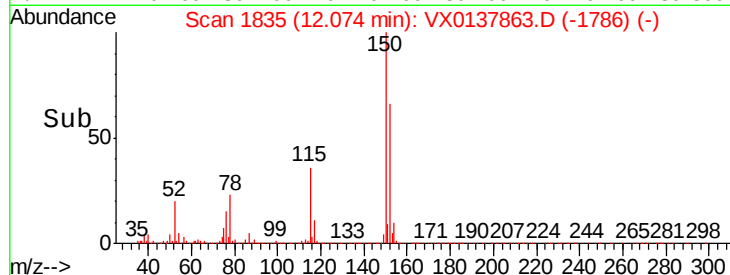
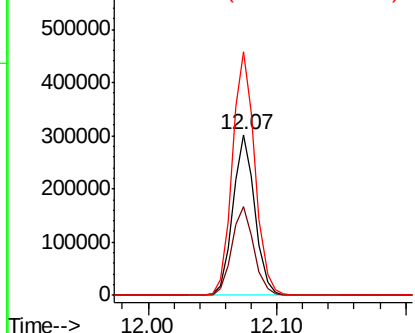


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

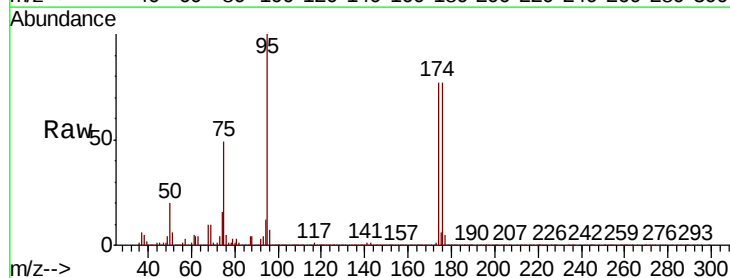
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 22.175 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX0137863.D
Acq: 09 Dec 2019 20:04

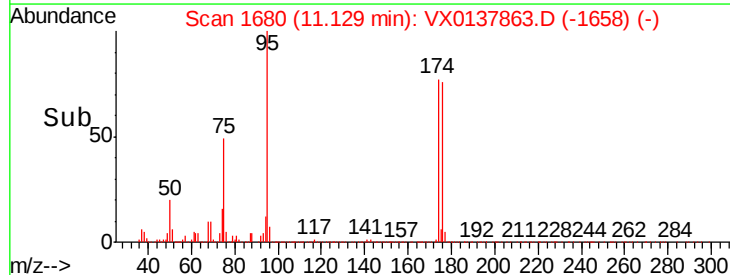
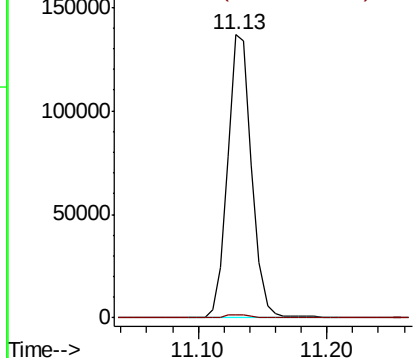
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	19.1	57.5#

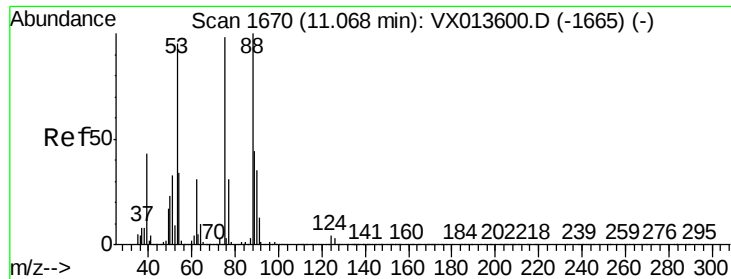


Abundance

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: 60.666 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX0137863.D

Acq: 09 Dec 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

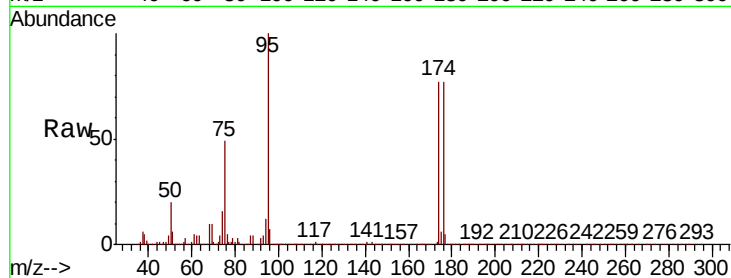
Tot Ion: 75 Resp: 178915

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

