

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102519\
 Data File : VX013231.D
 Acq On : 25 Oct 2019 15:17
 Operator : JC/SP
 Sample : K5546-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW809-20.0-25.0-102419-FD

Quant Time: Oct 25 23:04:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	72246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	106375	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	104754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	63972	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	81621	54.02	ug/l	0.00
Spiked Amount			Recovery	=	108.04%	
35) Dibromofluoromethane	5.49	113	61872	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
50) Toluene-d8	8.71	98	222649	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
62) 4-Bromofluorobenzene	11.14	95	81590	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	

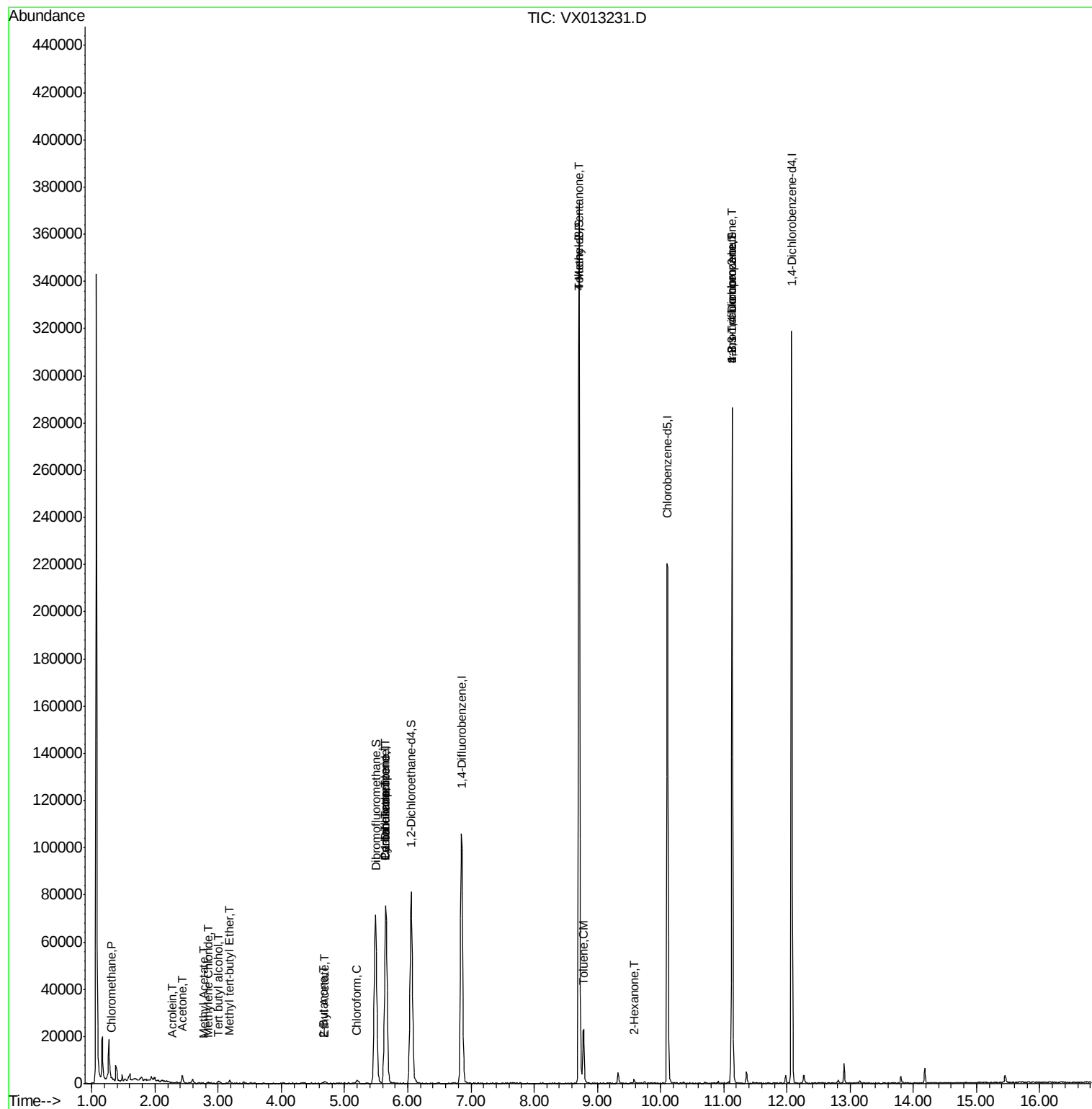
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	354	1.266	ug/l #	72
6) Chloroethane	1.71	64	203	Below Cal		95
11) Tert butyl alcohol	3.01	59	776	1.310	ug/l #	72
13) Acrolein	2.28	56	46	0.259	ug/l #	13
16) Acetone	2.43	43	3468	4.872	ug/l	93
18) Methyl Acetate	2.76	43	19	0.981	ug/l #	49
19) Methyl tert-butyl Ether	3.18	73	1166	0.269	ug/l	100
20) Methylene Chloride	2.85	84	179	0.422	ug/l #	72
25) 2-Butanone	4.66	43	198	0.207	ug/l #	45
30) Chloroform	5.20	83	1828	0.737	ug/l	100
31) Cyclohexane	5.65	56	1467	0.751	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	5269	2.886	ug/l #	48
37) Ethyl Acetate	4.68	43	492	0.278	ug/l #	71
38) Carbon Tetrachloride	5.65	117	7239	3.682	ug/l #	13
51) 4-Methyl-2-Pentanone	8.71	43	901	0.502	ug/l #	1
52) Toluene	8.78	92	9077	2.563	ug/l	92
59) 2-Hexanone	9.58	43	369	0.267	ug/l #	23
64) Tetrachloroethene	9.33	164	62	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.13	75	40132	26.029	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	40132	71.525	ug/l #	10

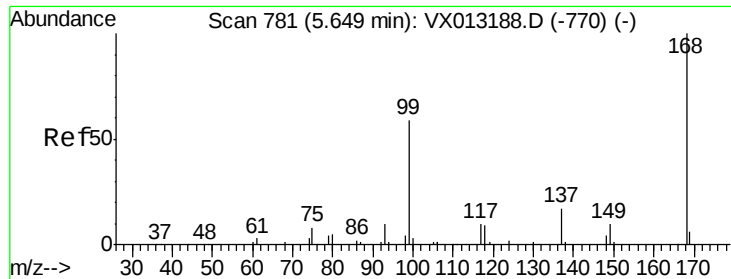
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 24 03:56:38 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: VX013231.D

Acq: 25 Oct 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

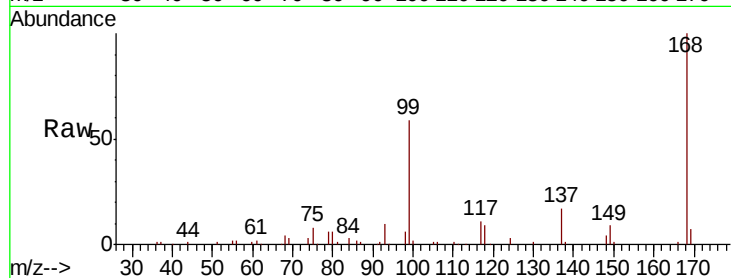
GW809-20.0-25.0-102419-FD

Tot Ion:168 Resp: 72246

Ion Ratio Lower Upper

168 100

99 58.8 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

25000

20000

15000

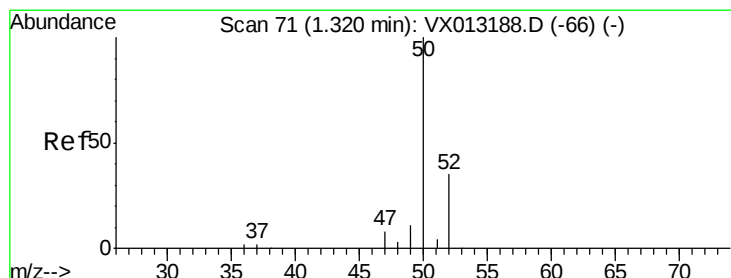
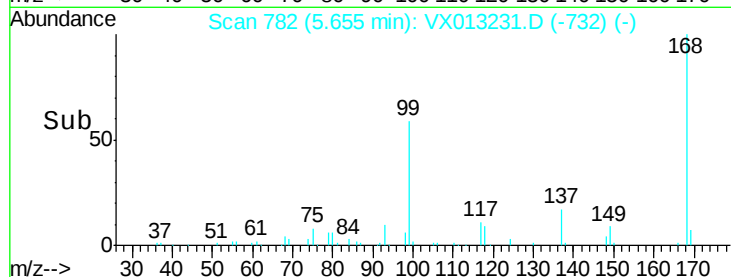
10000

5000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.266 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX013231.D

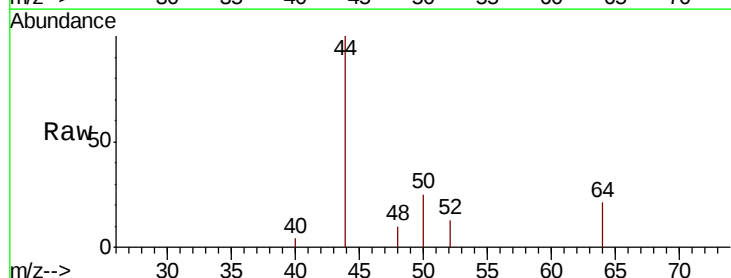
Acq: 25 Oct 2019 15:17

Tgt Ion: 50 Resp: 354

Ion Ratio Lower Upper

50 100

52 51.1 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

300

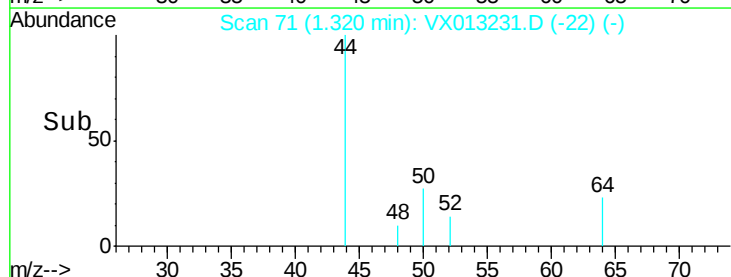
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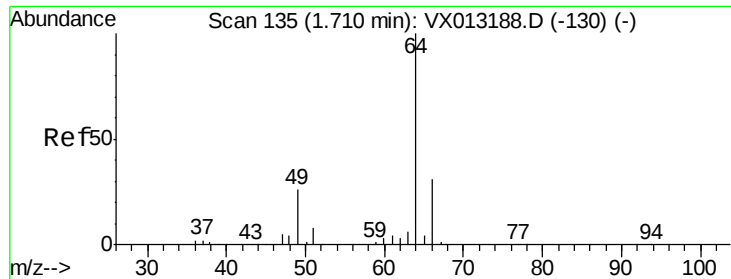
100

0

Time-->

1.30 1.32 1.34 1.36





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

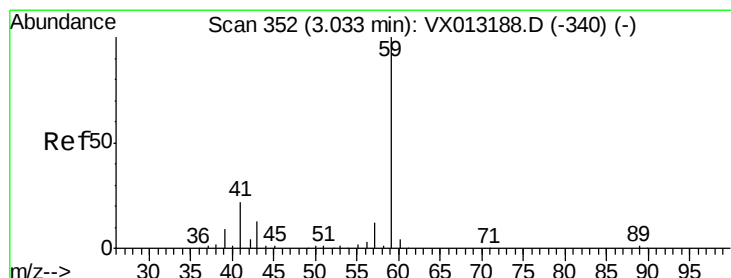
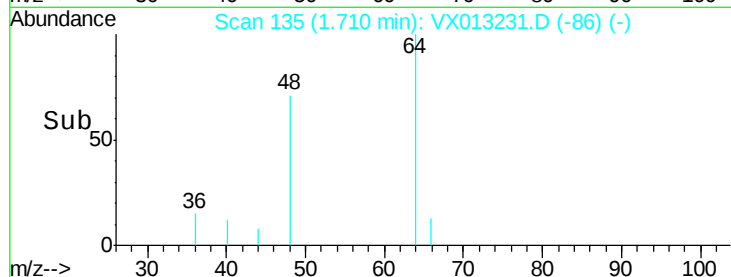
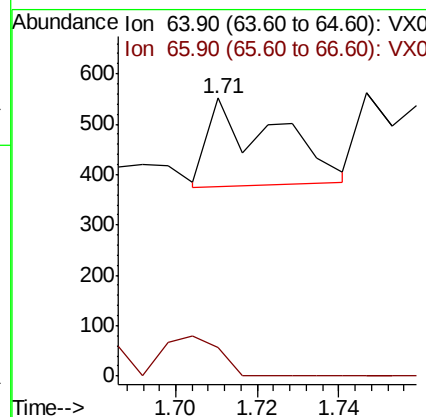
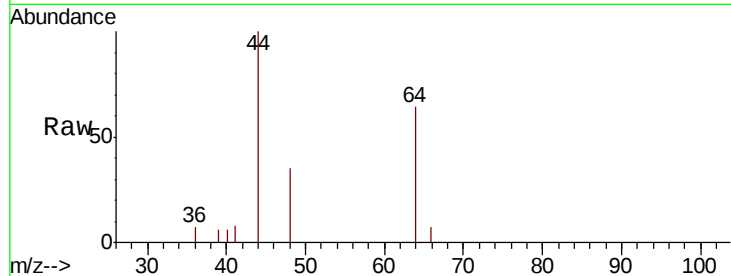
GW809-20.0-25.0-102419-FD

Tot Ion: 64 Resp: 203

Ion Ratio Lower Upper

64 100

66 33.9 25.0 37.6



#11

Tert butyl alcohol

Concen: 1.310 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013231.D

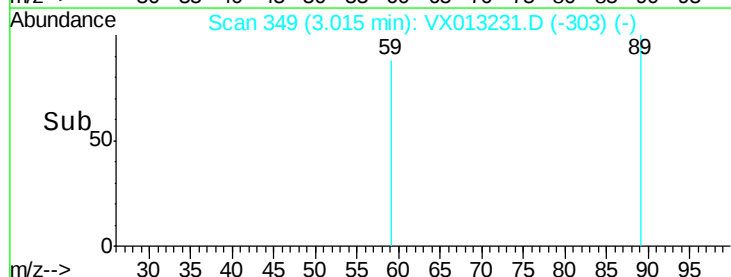
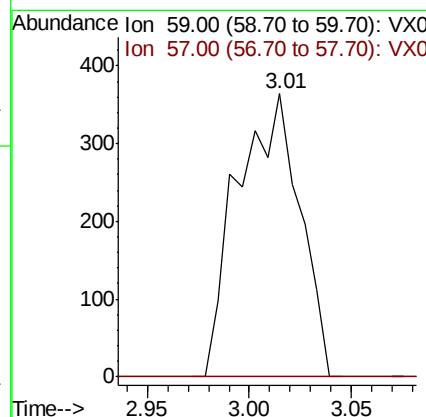
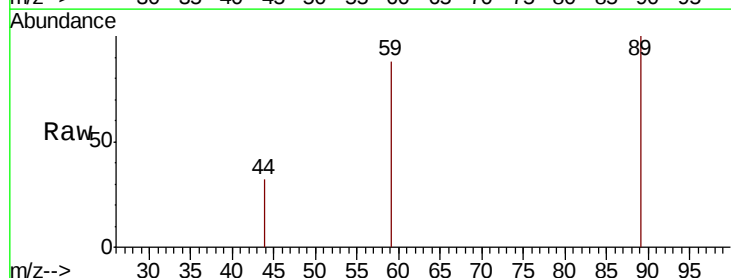
Acq: 25 Oct 2019 15:17

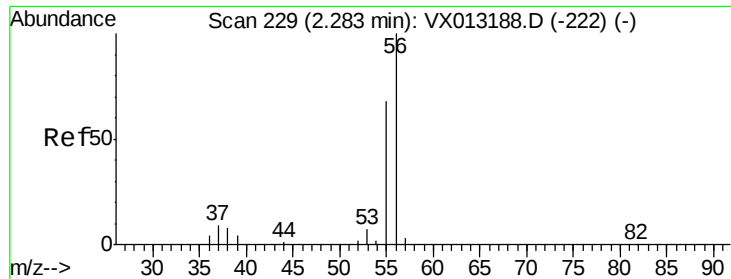
Tgt Ion: 59 Resp: 776

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.259 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

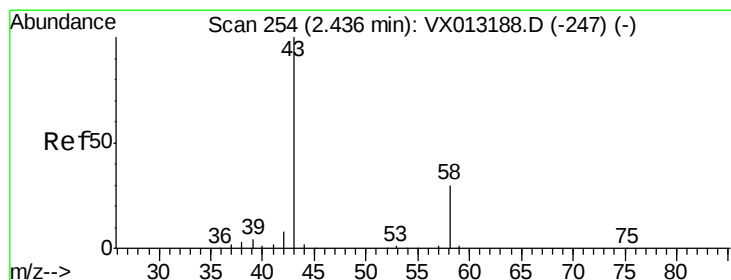
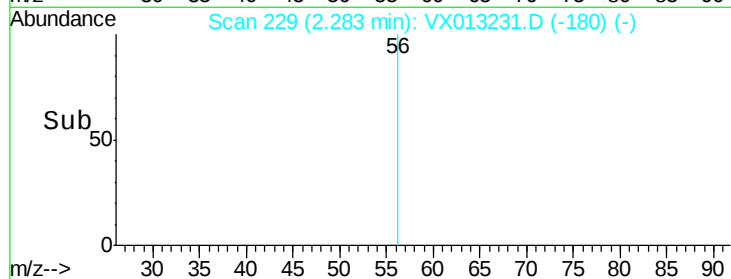
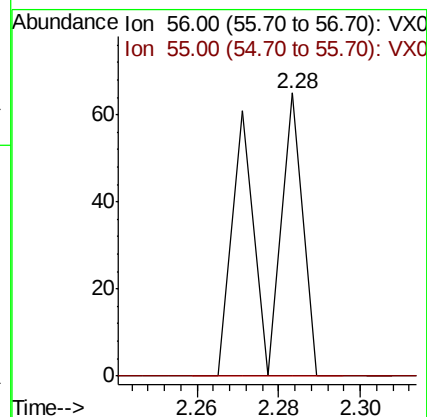
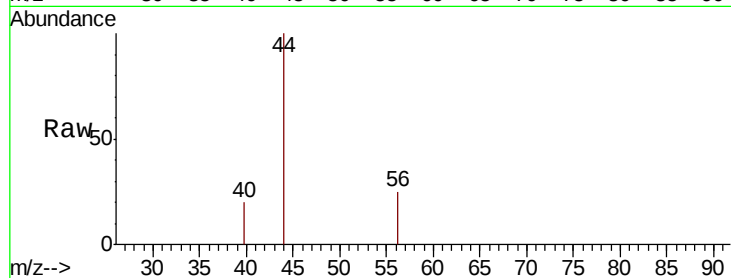
GW809-20.0-25.0-102419-FD

Tot Ion: 56 Resp: 46

Ion Ratio Lower Upper

56 100

55 0.0 58.9 88.3#



#16

Acetone

Concen: 4.872 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013231.D

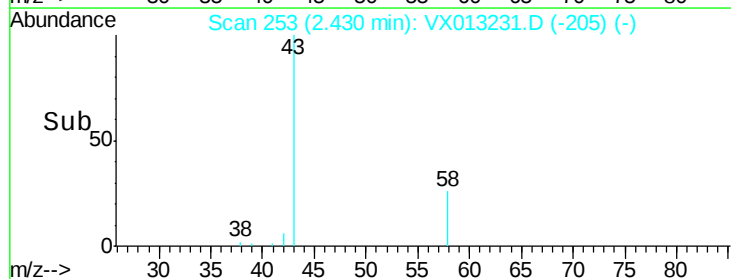
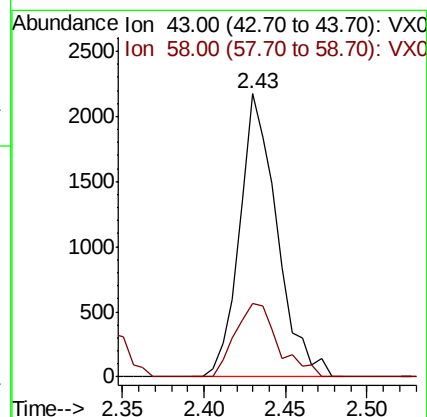
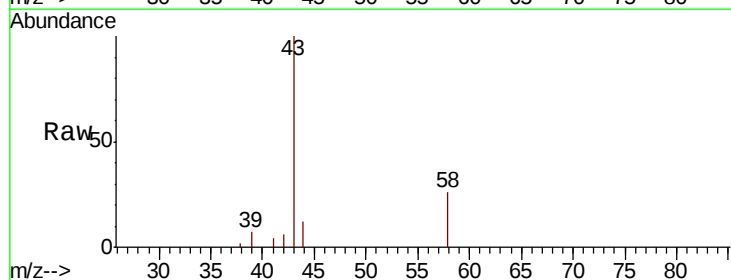
Acq: 25 Oct 2019 15:17

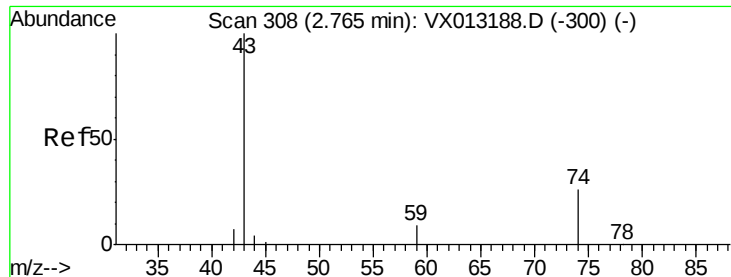
Tgt Ion: 43 Resp: 3468

Ion Ratio Lower Upper

43 100

58 26.0 23.8 35.6

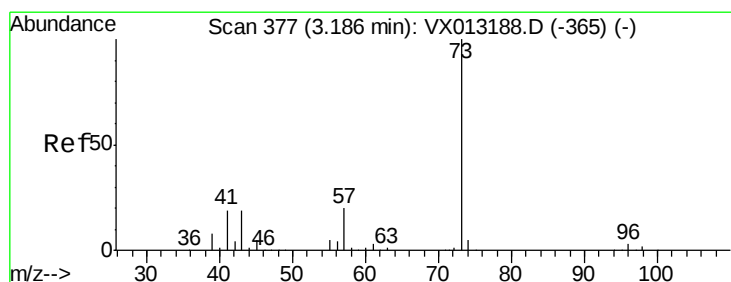
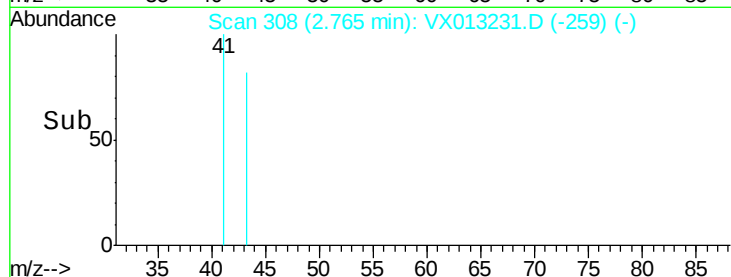
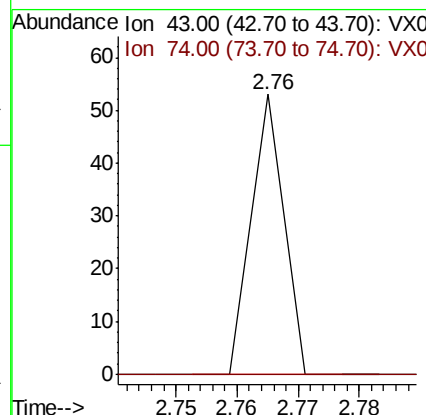
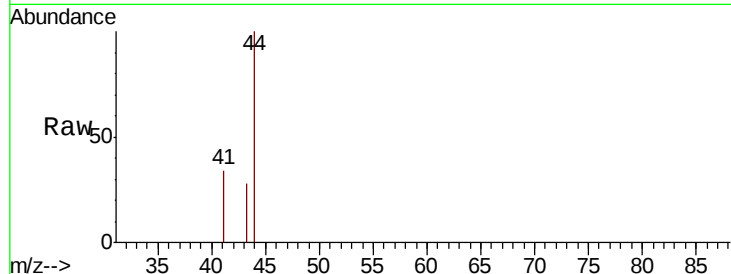




#18
Methyl Acetate
Concen: 0.981 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

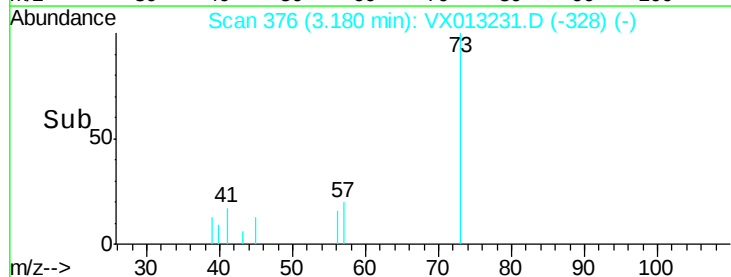
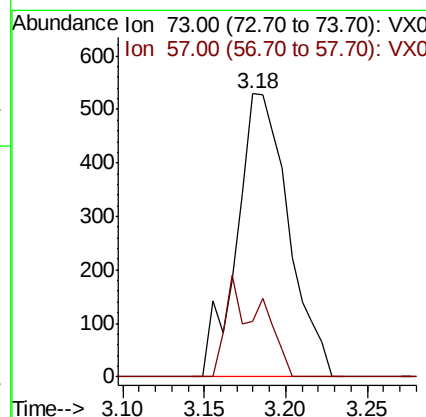
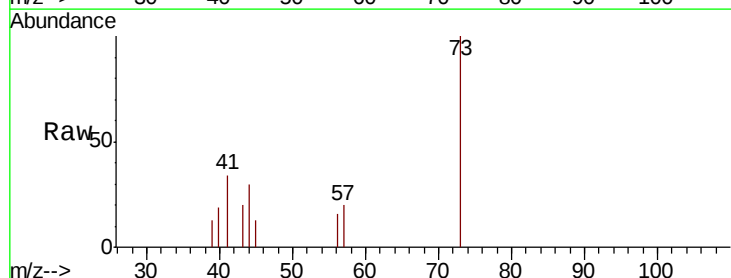
Instrument :
MSVOA_X
ClientSampleId :
GW809-20.0-25.0-102419-FD

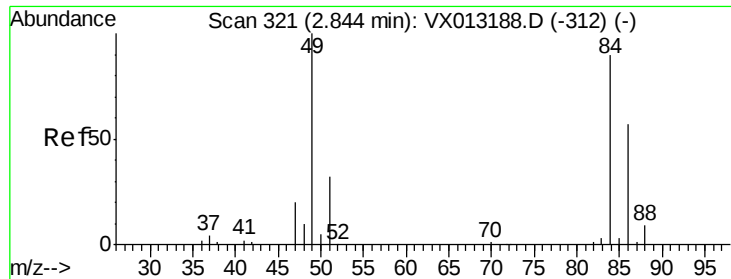
Tot Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#19
Methyl tert-butyl Ether
Concen: 0.269 ug/l
RT: 3.18 min Scan# 376
Delta R.T. -0.01 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

Tgt Ion: 73 Resp: 1166
Ion Ratio Lower Upper
73 100
57 19.7 15.8 23.8

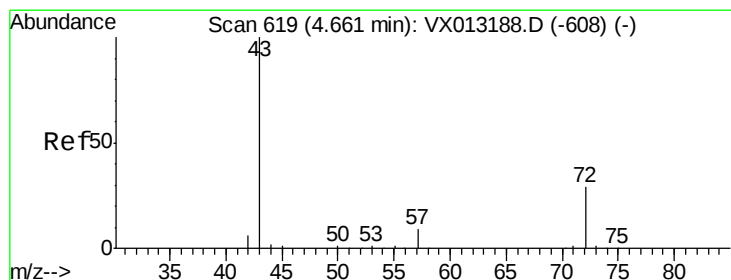
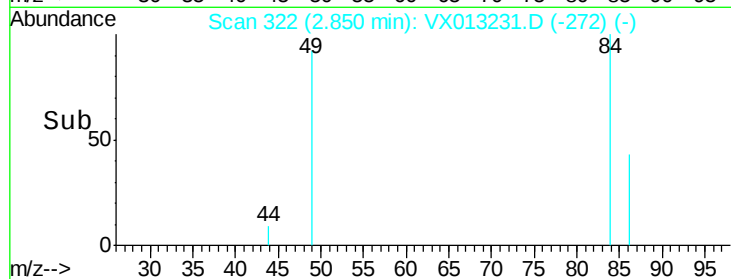
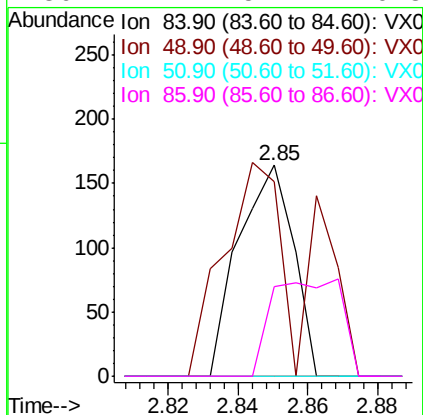
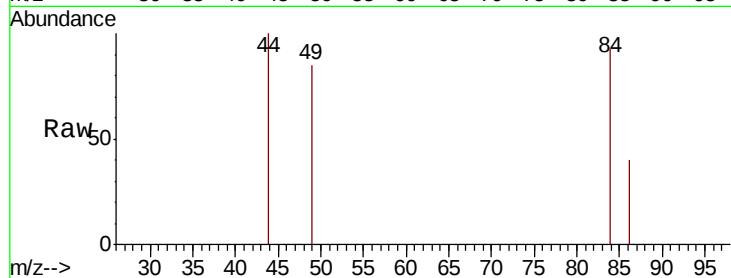




#20
Methvlene Chloride
Concen: 0.422 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

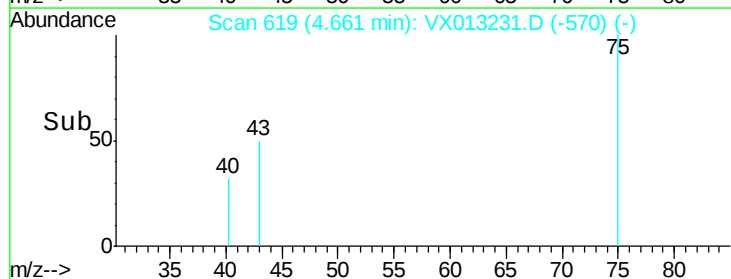
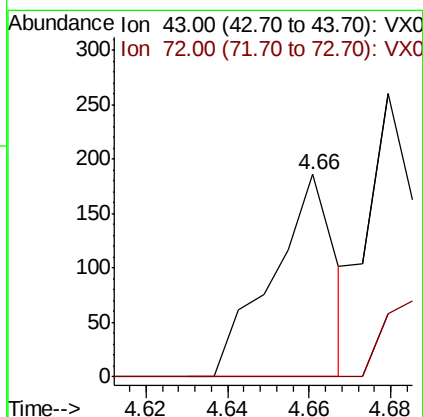
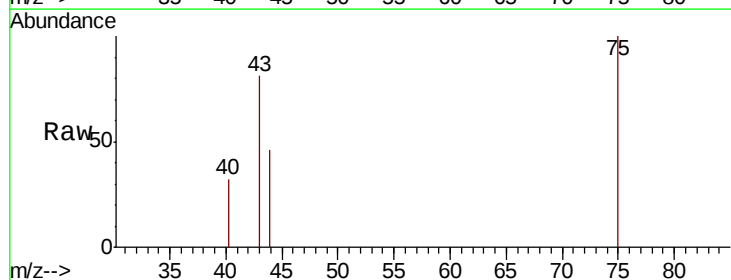
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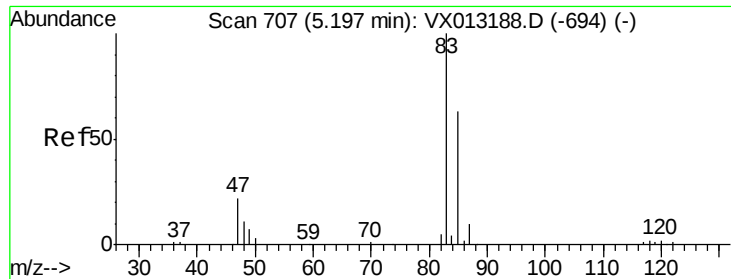
Tot Ion: 84 Resp: 179
Ion Ratio Lower Upper
84 100
49 92.1 89.2 133.8
51 0.0 28.8 43.2#
86 42.7 51.2 76.8#



#25
2-Butanone
Concen: 0.207 ug/l
RT: 4.66 min Scan# 619
Delta R.T. 0.00 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

Tgt Ion: 43 Resp: 198
Ion Ratio Lower Upper
43 100
72 0.0 23.4 35.2#

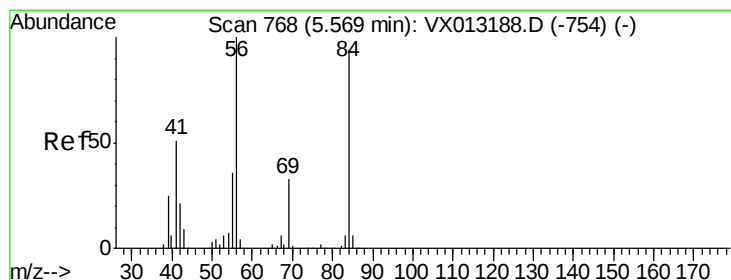
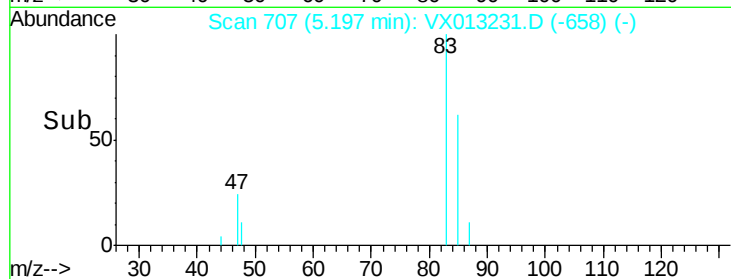
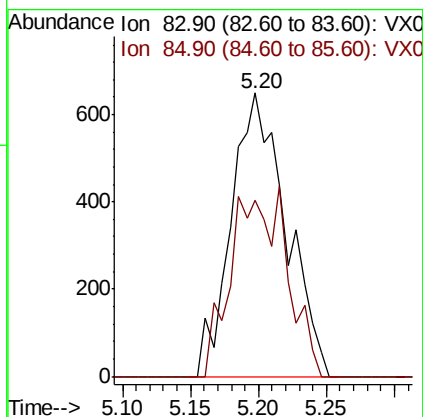
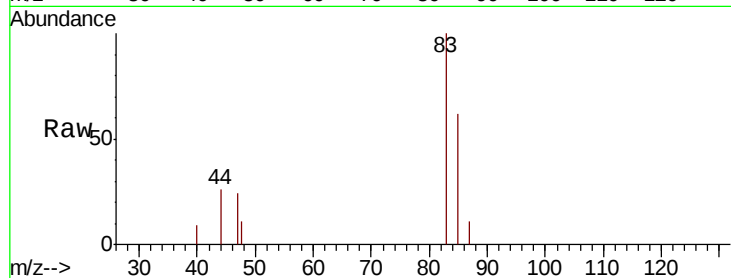




#30
Chloroform
Concen: 0.737 ug/l
RT: 5.20 min Scan# 707
Delta R.T. 0.00 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

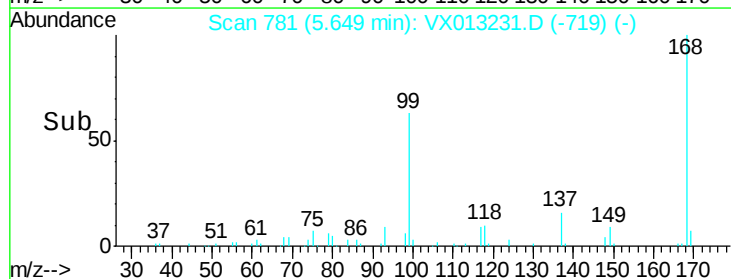
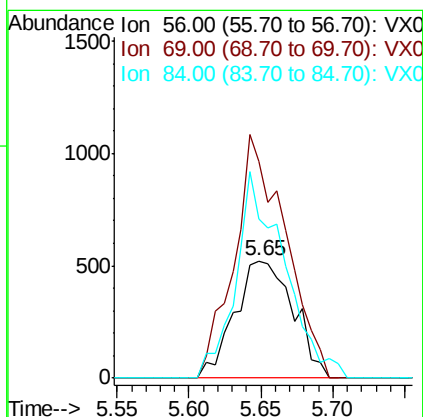
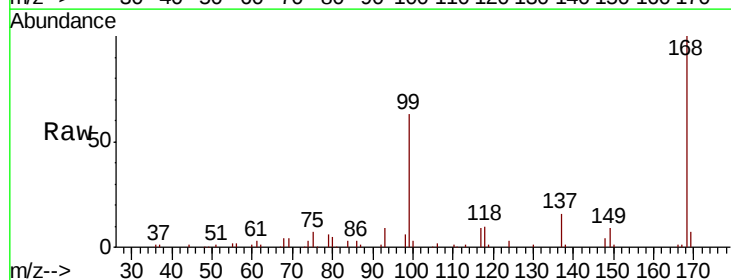
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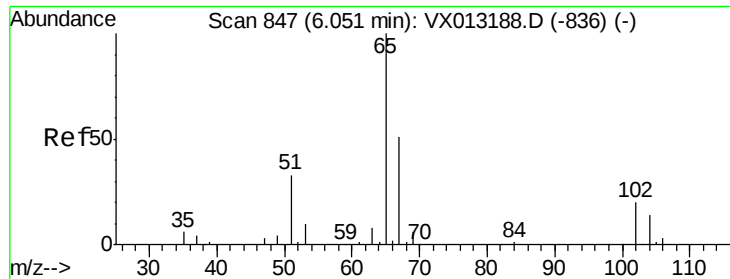
Tot Ion: 83 Resp: 1828
Ion Ratio Lower Upper
83 100
85 62.4 50.1 75.1



#31
Cyclohexane
Concen: 0.751 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

Tgt Ion: 56 Resp: 1467
Ion Ratio Lower Upper
56 100
69 185.2 26.3 39.5#
84 135.4 73.8 110.6#

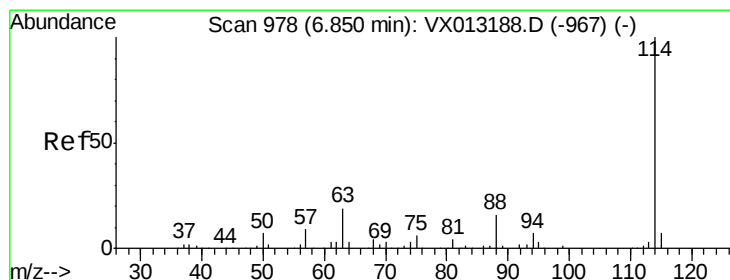
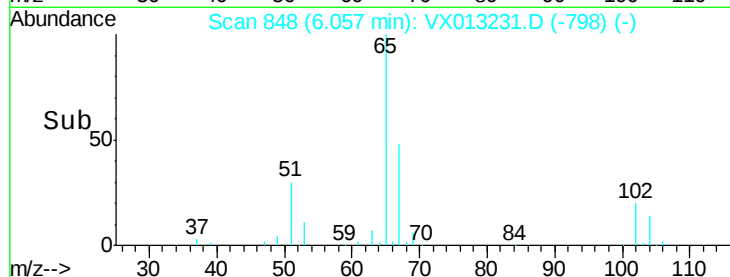
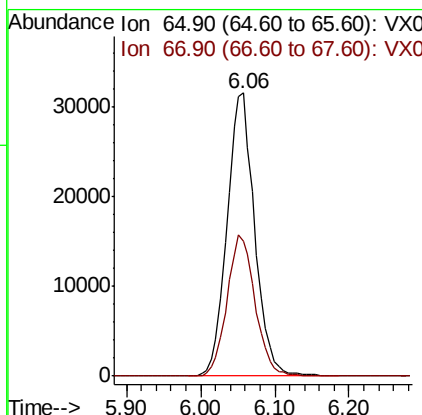
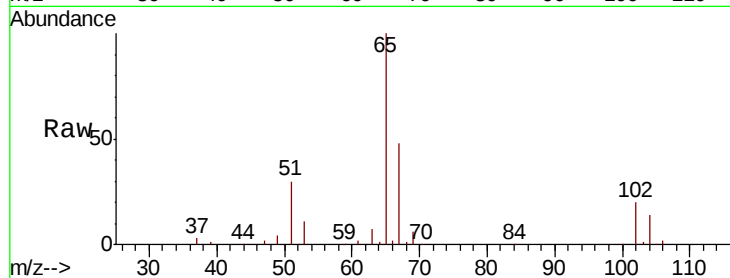




#33
 1,2-Dichloroethane-d4
 Concen: 54.016 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX013231.D
 Acq: 25 Oct 2019 15:17

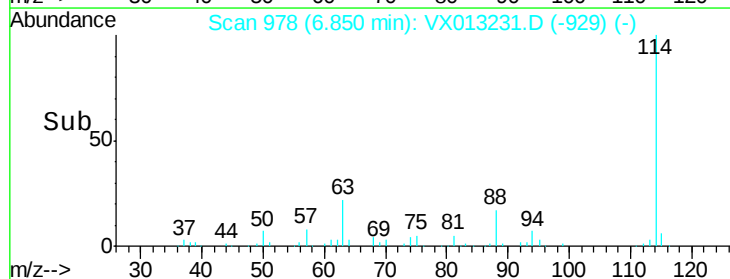
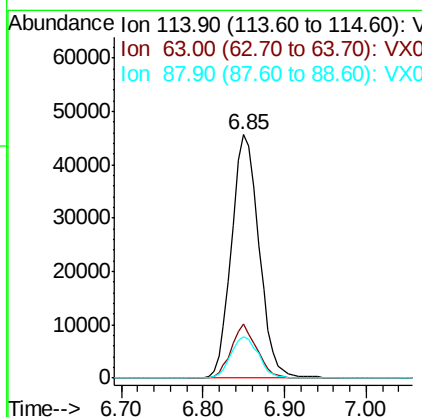
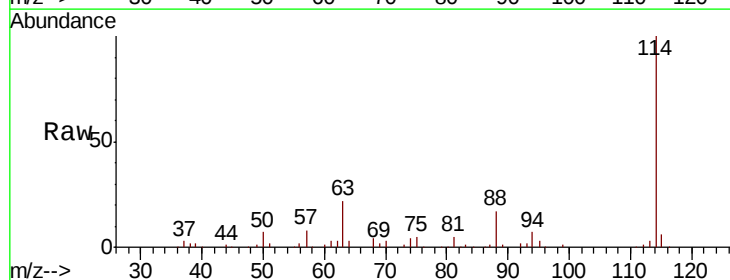
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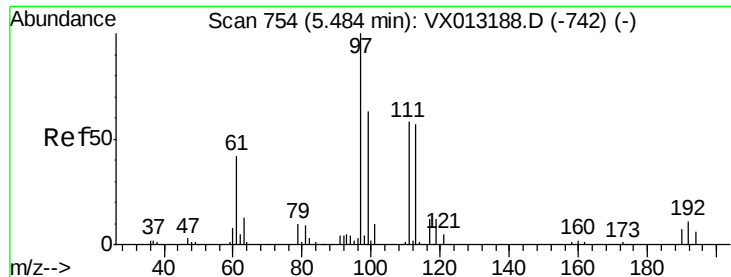
Tot Ion: 65 Resp: 81621
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013231.D
 Acq: 25 Oct 2019 15:17

Tgt Ion: 114 Resp: 106375
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 39.0
 88 17.0 0.0 32.0





#35

Dibromofluoromethane

Concen: 52.158 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

GW809-20.0-25.0-102419-FD

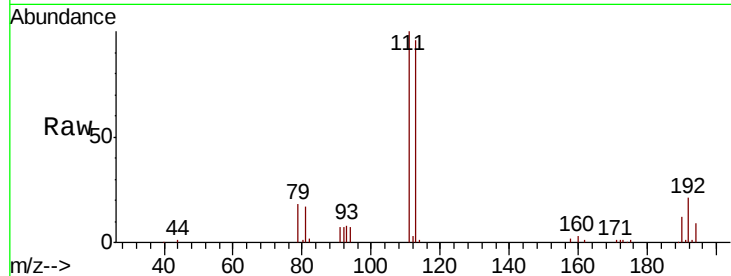
Tot Ion:113 Resp: 61872

Ion Ratio Lower Upper

113 100

111 102.8 80.3 120.5

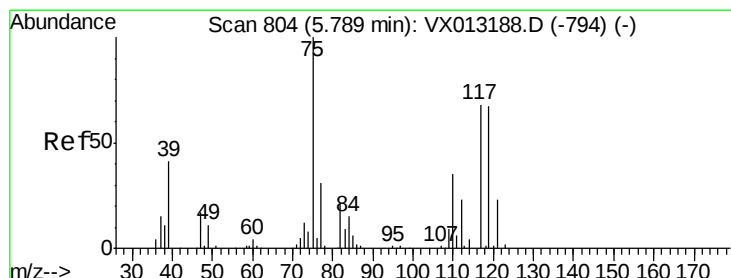
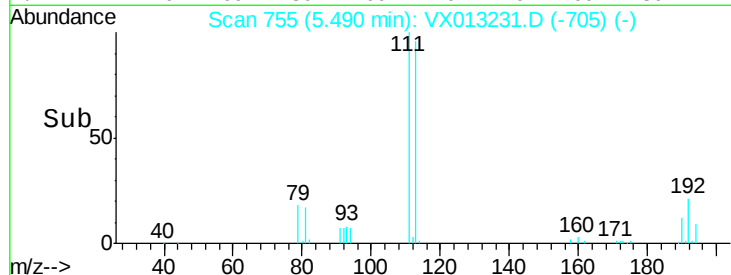
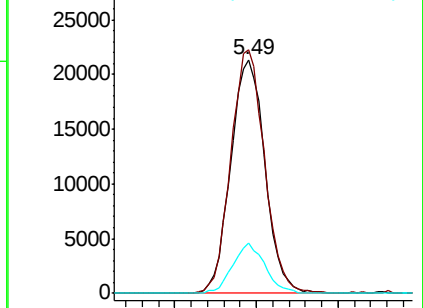
192 20.5 15.9 23.9



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: 2.886 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

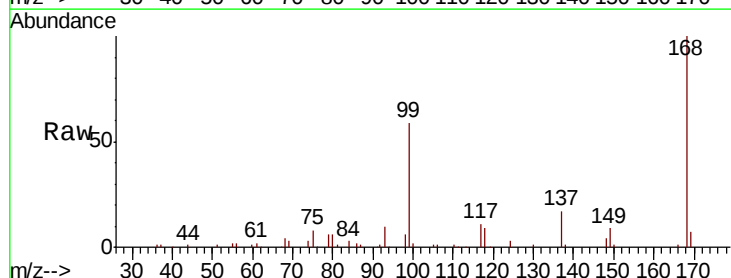
Tgt Ion: 75 Resp: 5269

Ion Ratio Lower Upper

75 100

110 7.5 17.6 52.9#

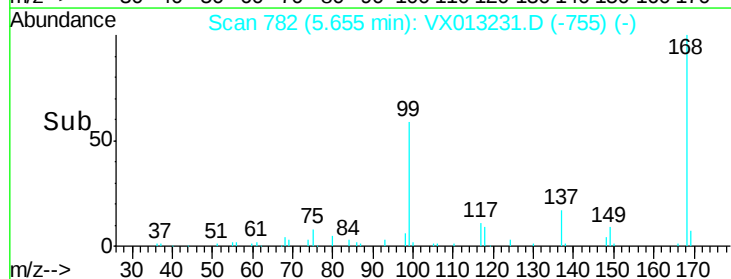
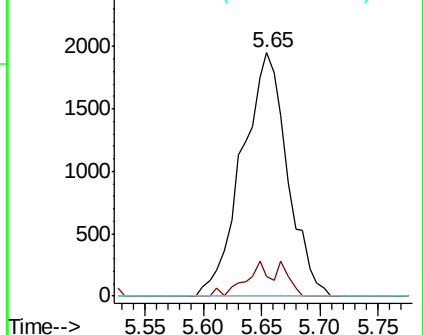
77 0.0 24.7 37.1#

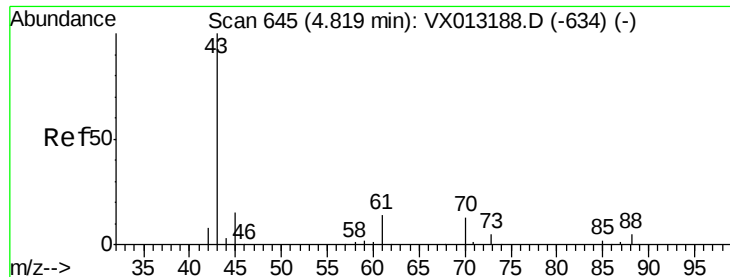


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

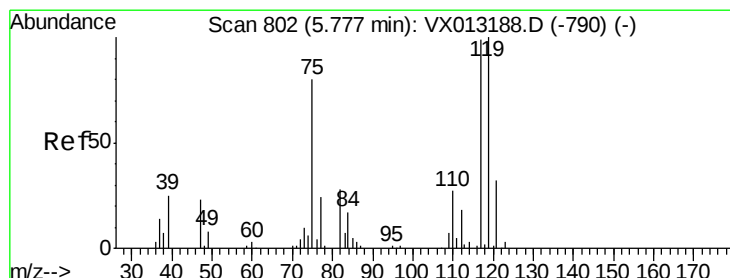
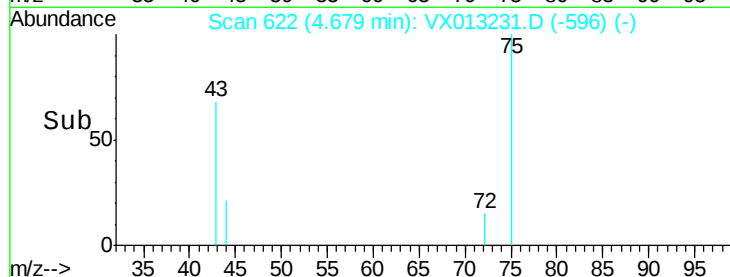
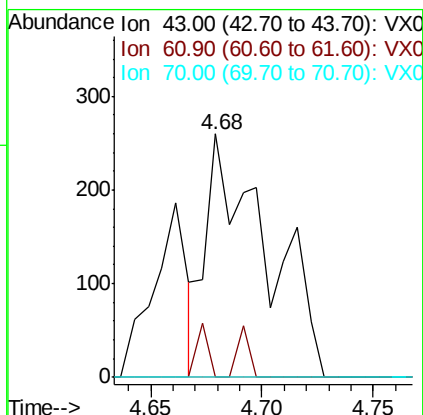
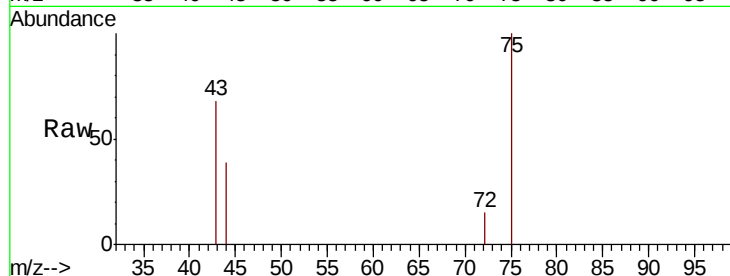




#37
Ethyl Acetate
Concen: 0.278 ug/l
RT: 4.68 min Scan# 622
Delta R.T. -0.14 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

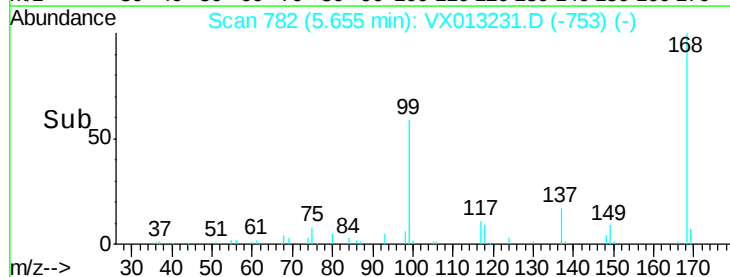
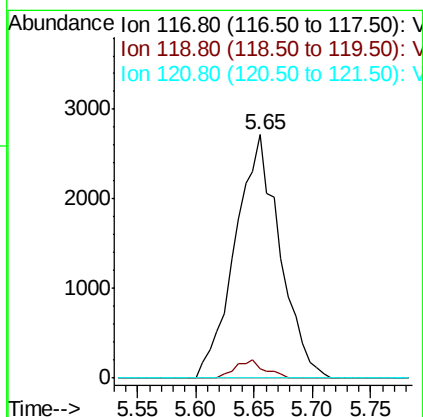
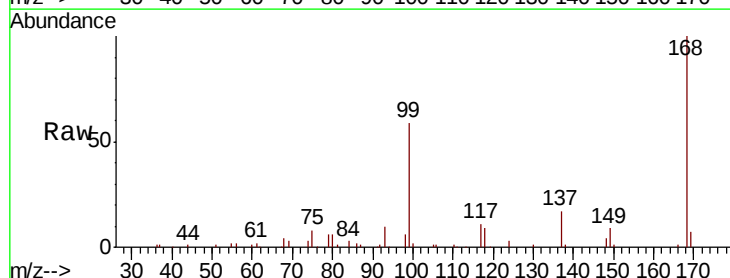
Instrument :
MSVOA_X
ClientSampleId :
GW809-20.0-25.0-102419-FD

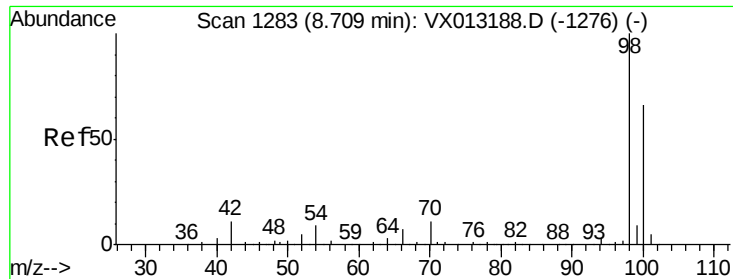
Tot Ion: 43 Resp: 492
Ion Ratio Lower Upper
43 100
61 4.3 12.1 18.1#
70 0.0 10.4 15.6#



#38
Carbon Tetrachloride
Concen: 3.682 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

Tgt Ion: 117 Resp: 7239
Ion Ratio Lower Upper
117 100
119 4.1 80.1 120.1#
121 0.0 25.5 38.3#

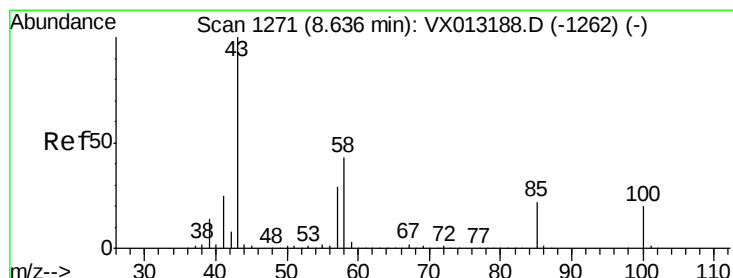
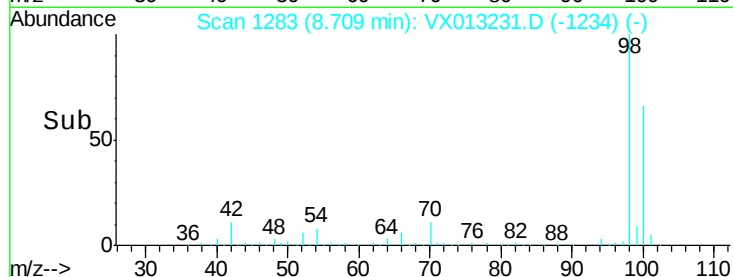
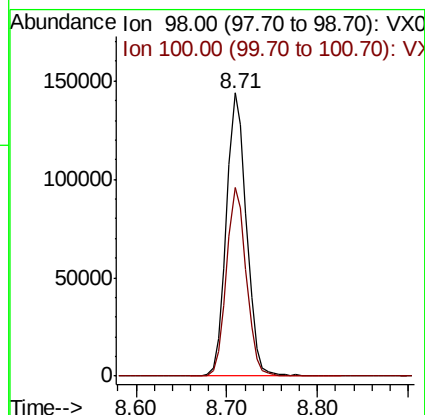
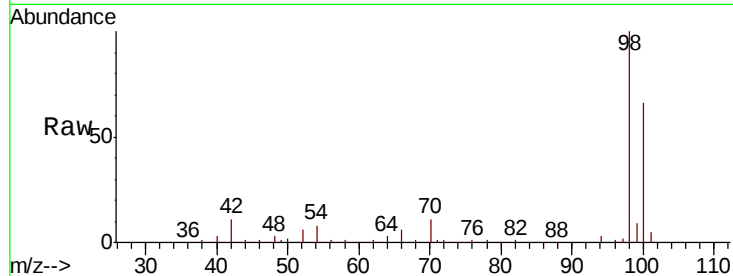




#50
Toluene-d8
Concen: 50.647 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

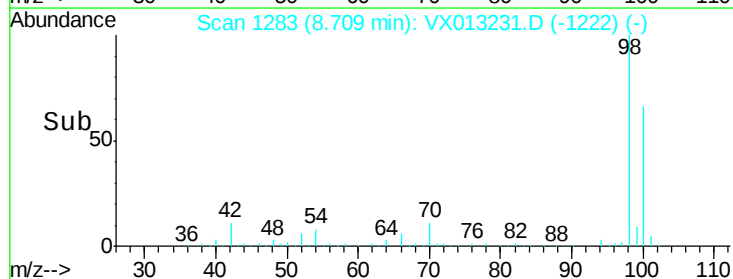
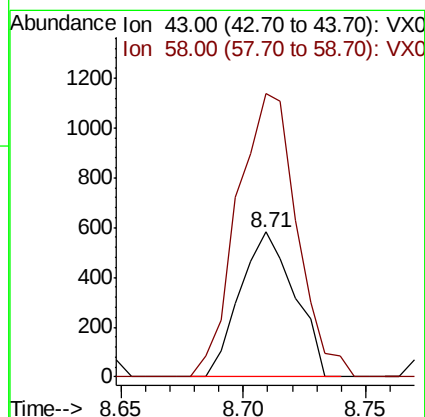
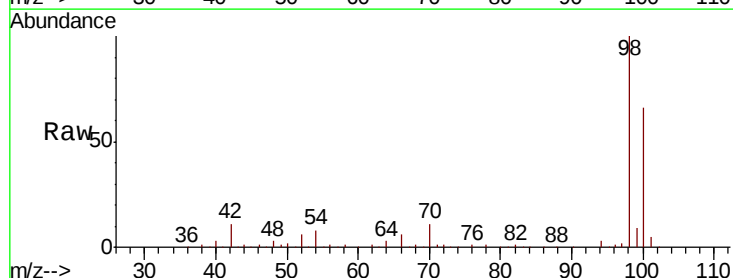
Instrument :
MSVOA_X
ClientSampleId :
GW809-20.0-25.0-102419-FD

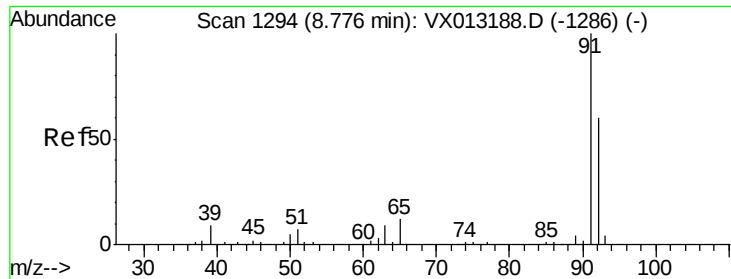
Tot Ion: 98 Resp: 222649
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 0.502 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

Tgt Ion: 43 Resp: 901
Ion Ratio Lower Upper
43 100
58 214.5 33.9 50.9#





#52

Toluene

Concen: 2.563 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

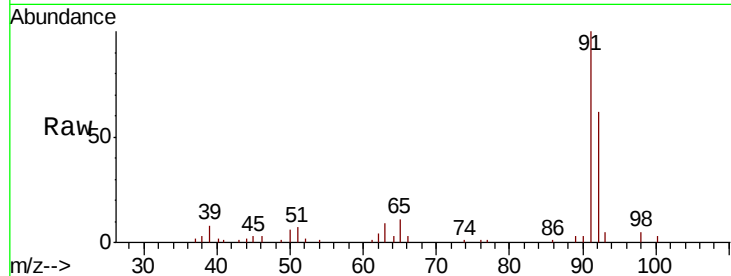
GW809-20.0-25.0-102419-FD

Tot Ion: 92 Resp: 9077

Ion Ratio Lower Upper

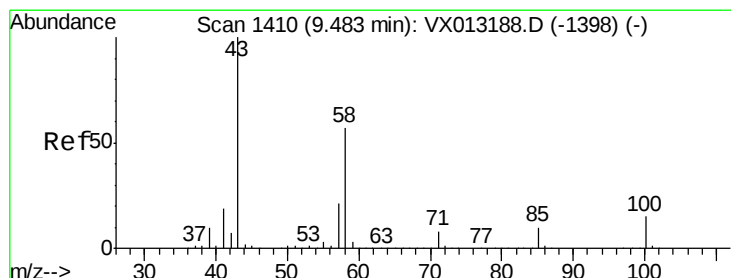
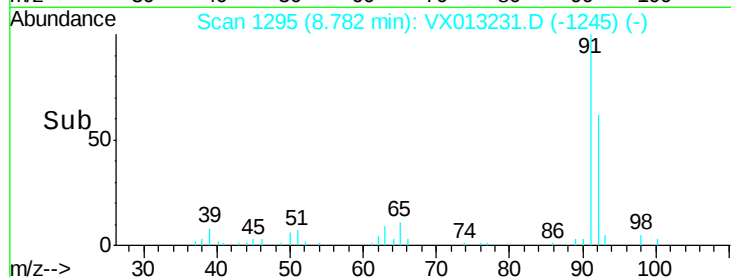
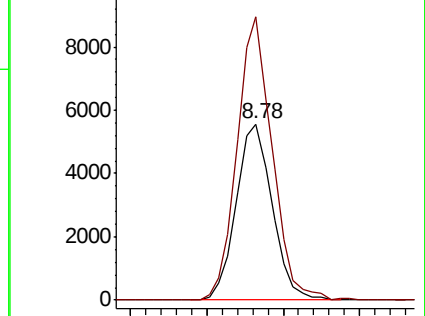
92 100

91 156.4 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 0.267 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.10 min

Lab File: VX013231.D

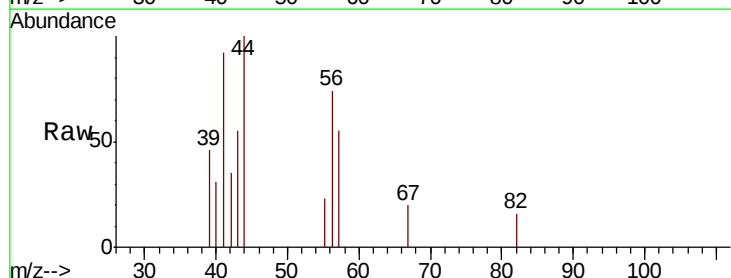
Acq: 25 Oct 2019 15:17

Tgt Ion: 43 Resp: 369

Ion Ratio Lower Upper

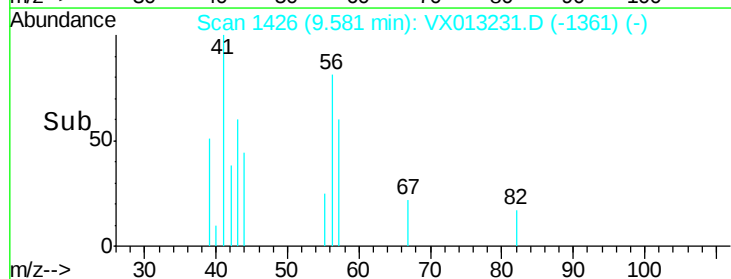
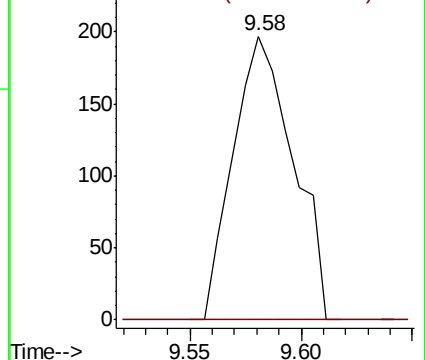
43 100

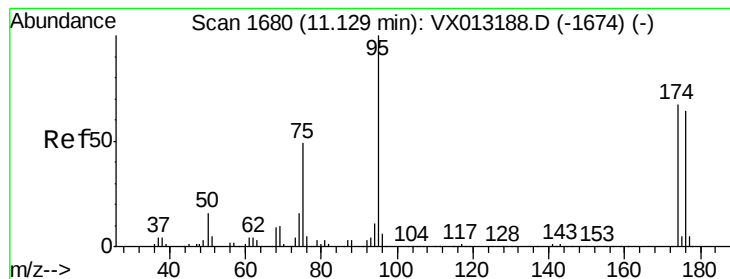
58 0.0 28.2 84.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.892 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

GW809-20.0-25.0-102419-FD

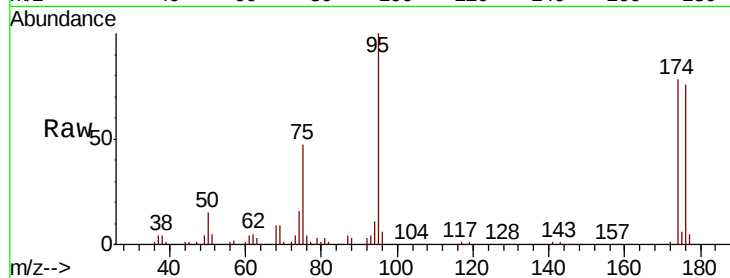
Tot Ion: 95 Resp: 81590

Ion Ratio Lower Upper

95 100

174 73.4 0.0 152.4

176 74.0 0.0 146.0

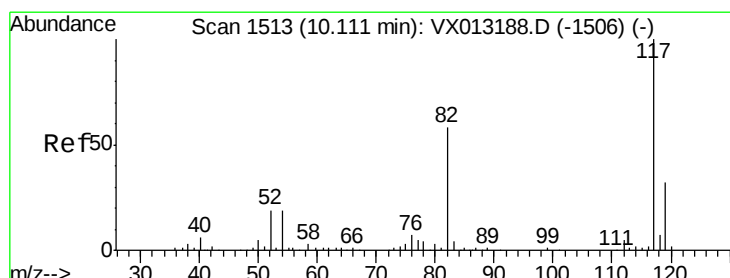
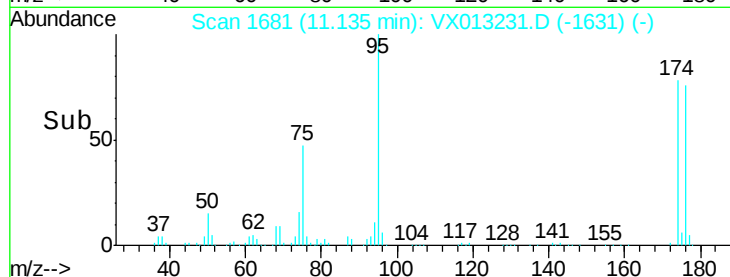


Abundance Ion 94.90 (94.60 to 95.60): VX013188.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013188.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013188.D (-1674) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

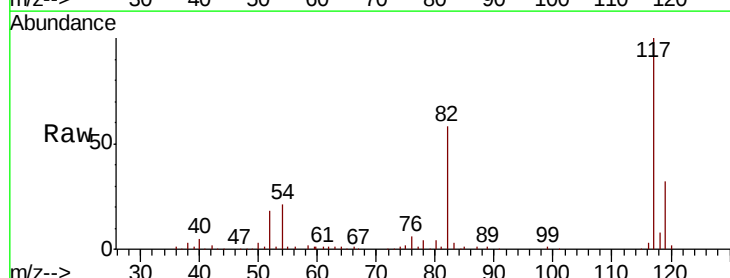
Tgt Ion: 117 Resp: 104754

Ion Ratio Lower Upper

117 100

82 57.5 46.5 69.7

119 31.7 25.2 37.8

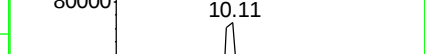
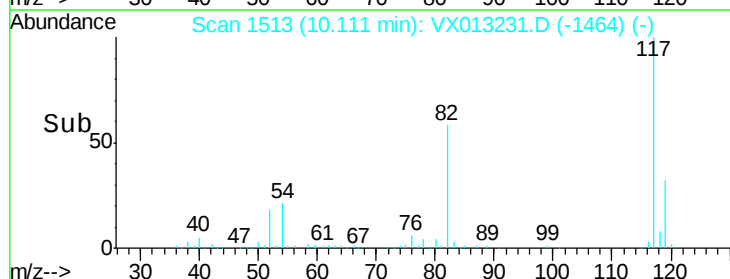


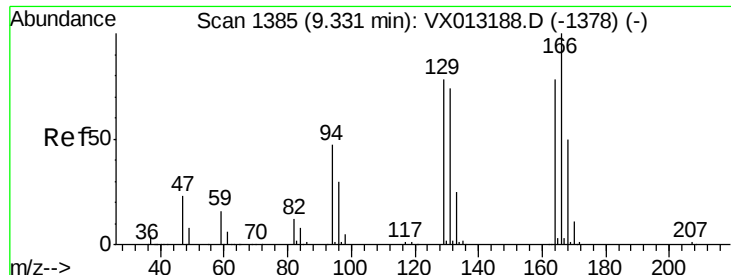
Abundance Ion 116.90 (116.60 to 117.60): VX013188.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX013188.D (-1506) (-)

Ion 118.90 (118.60 to 119.60): VX013188.D (-1506) (-)

Time-->

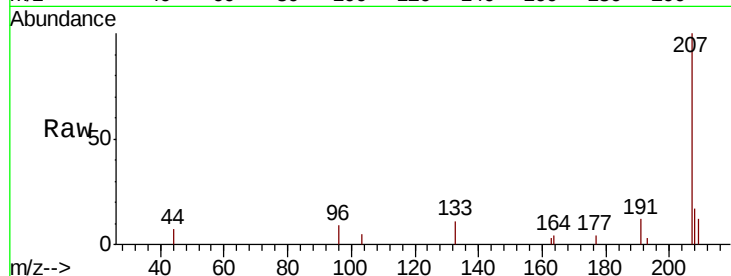




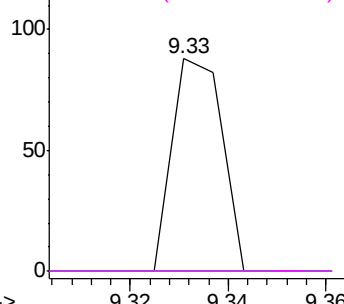
#64
Tetrachloroethene
Concen: Below Cal
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

Instrument :
MSVOA_X
ClientSampleId :
GW809-20.0-25.0-102419-FD

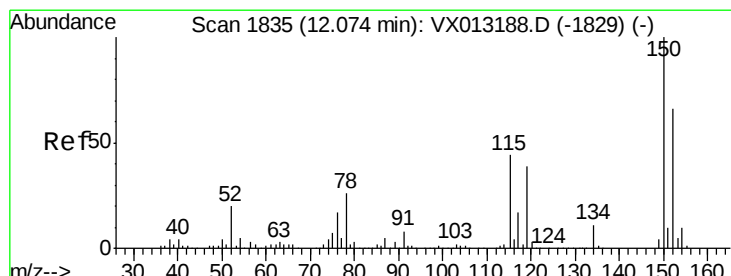
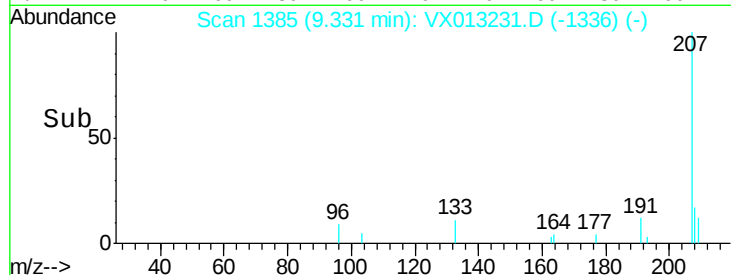
Tot Ion	Ratio	Lower	Upper
164	100		
166	0.0	102.2	153.4#
129	0.0	79.8	119.8#
131	0.0	75.3	112.9#



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

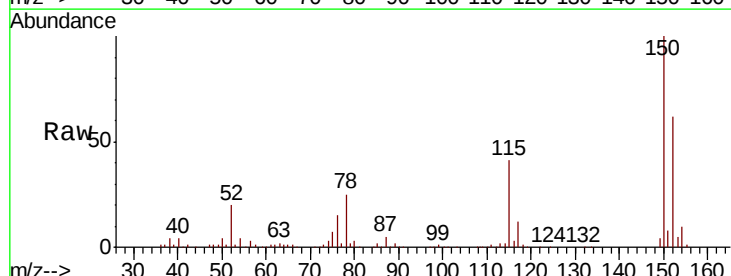


Time-->

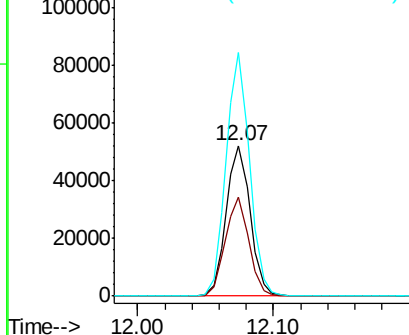


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013231.D
Acq: 25 Oct 2019 15:17

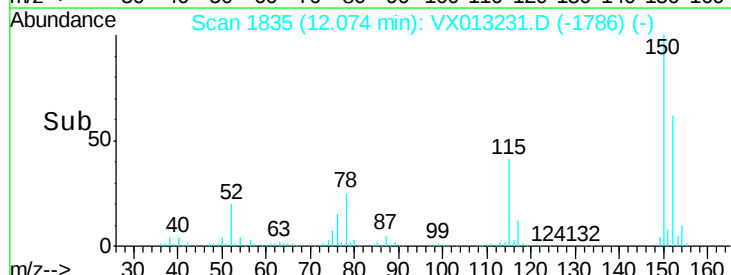
Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.5	46.6	139.8
150	157.9	0.0	354.0

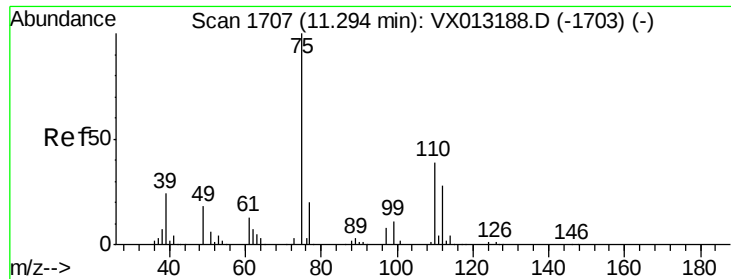


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#76

1,2,3-Trichloropropane

Concen: 26.029 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

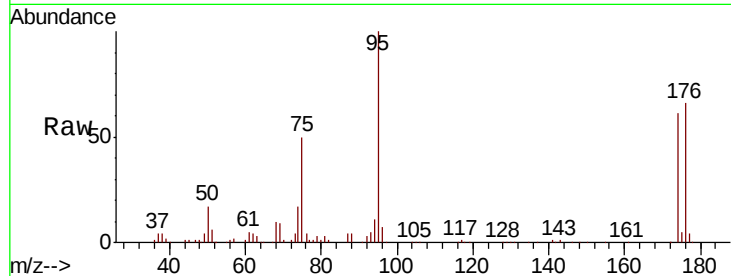
GW809-20.0-25.0-102419-FD

Tot Ion: 75 Resp: 40132

Ion Ratio Lower Upper

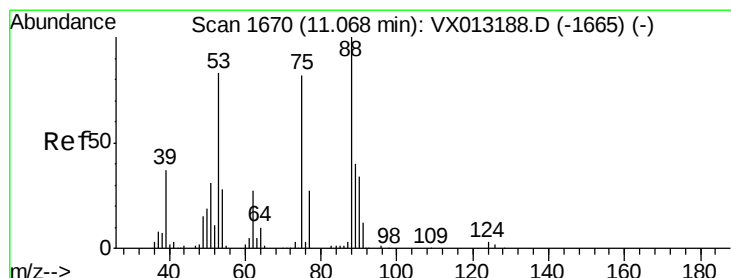
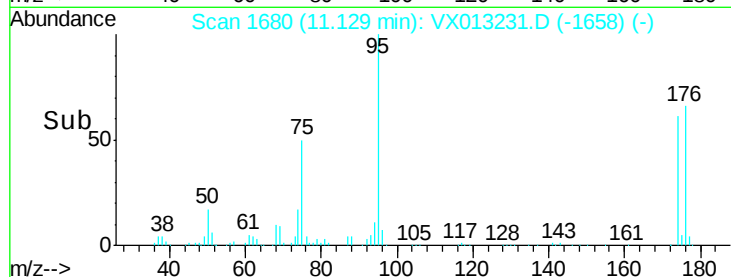
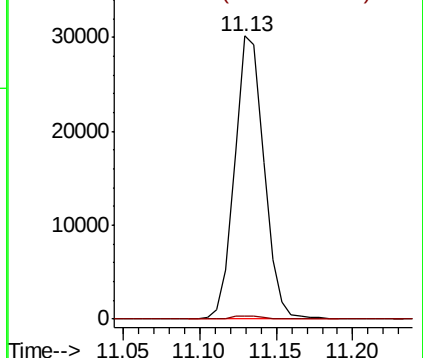
75 100

77 1.4 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: 71.525 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013231.D

Acq: 25 Oct 2019 15:17

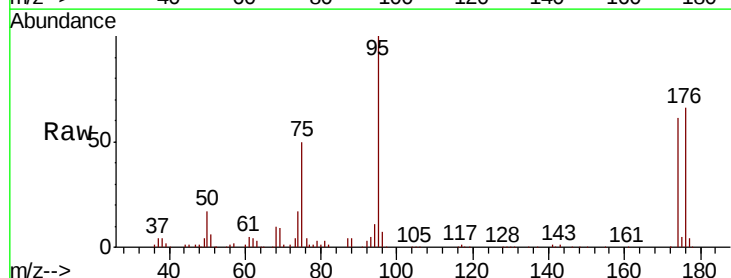
Tgt Ion: 75 Resp: 40132

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.0 37.3 55.9#



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

