

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101718\
 Data File : VX005403.D
 Acq On : 17 Oct 2018 21:34
 Operator : JC/MD
 Sample : J5569-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RLF-GW-FD-01

Quant Time: Oct 18 11:02:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	301263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	434575	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	381716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	183439	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	165008	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
35) Dibromofluoromethane	5.50	113	134823	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	8.71	98	510953	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	11.14	95	168121	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	

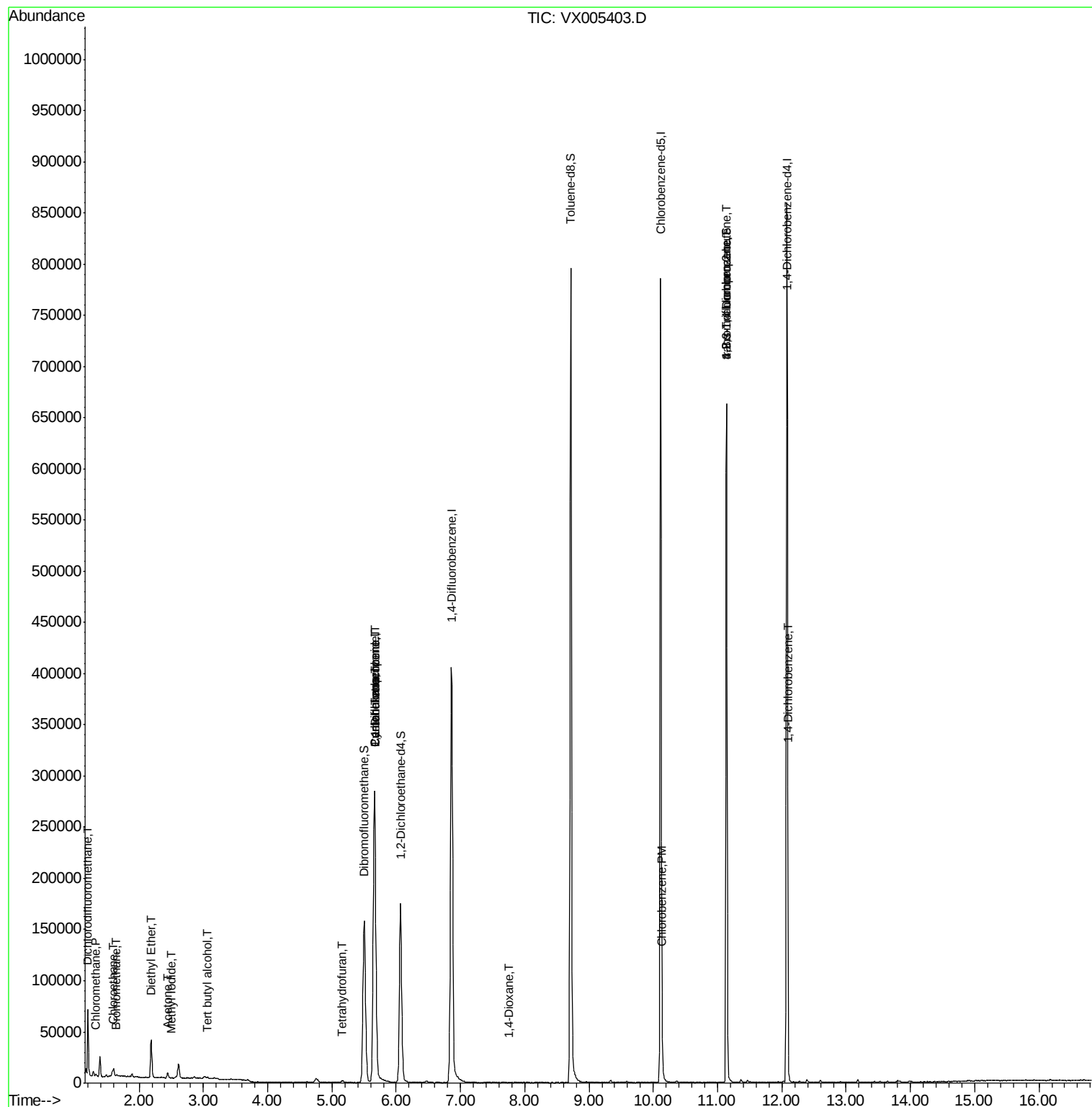
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1181	0.501	ug/l	96
3) Chloromethane	1.32	50	755	0.221	ug/l #	86
5) Bromomethane	1.65	94	732	0.955	ug/l	100
6) Chloroethane	1.59	64	4416	2.293	ug/l #	62
8) Diethyl Ether	2.19	74	11977	6.079	ug/l	90
10) Methyl Iodide	2.51	142	570	2.674	ug/l #	90
11) Tert butyl alcohol	3.06	59	1120	1.187	ug/l #	73
13) Acrolein	2.30	56	114	Below Cal	#	17
16) Acetone	2.45	43	4716	2.439	ug/l	94
20) Methylene Chloride	2.86	84	662	Below Cal	#	73
29) Tetrahydrofuran	5.16	42	1792	0.993	ug/l	92
31) Cyclohexane	5.67	56	5327	1.159	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	20263	4.814	ug/l #	50
38) Carbon Tetrachloride	5.67	117	26447	6.254	ug/l #	16
44) Trichloroethene	7.22	130	198	Below Cal		75
49) 1,4-Dioxane	7.76	88	45	0.522	ug/l #	24
65) Chlorobenzene	10.14	112	7445	0.917	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	81596	22.932	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	81596	69.678	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	3707	0.622	ug/l #	49

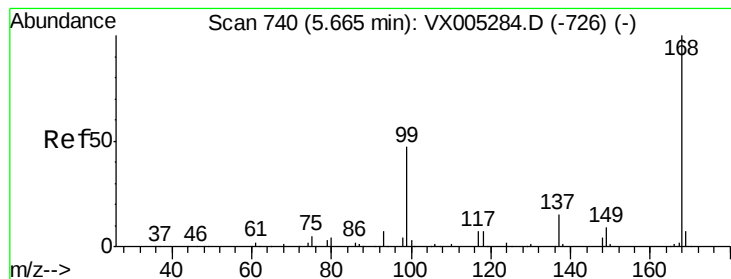
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

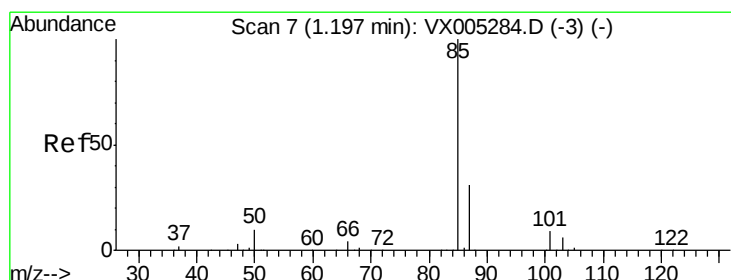
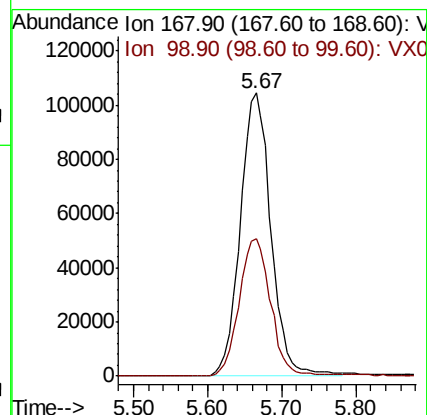
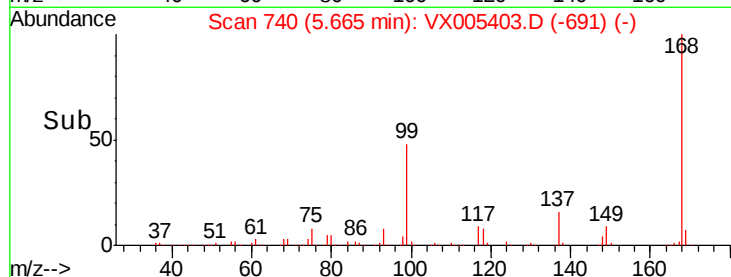
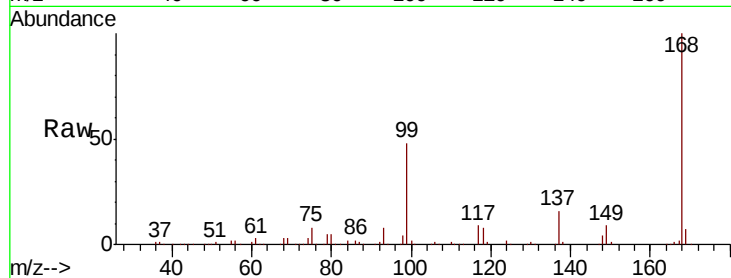
RLF-GW-FD-01

Tot Ion:168 Resp: 301263

Ion Ratio Lower Upper

168 100

99 48.5 39.9 59.9



#2

Dichlorodifluoromethane

Concen: 0.501 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX005403.D

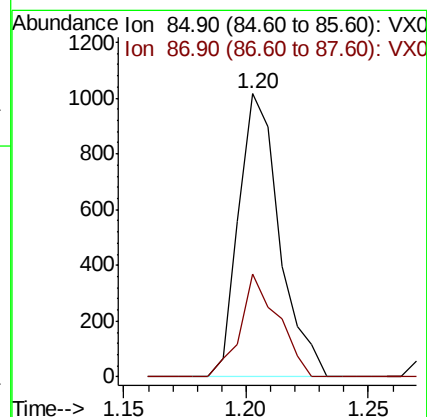
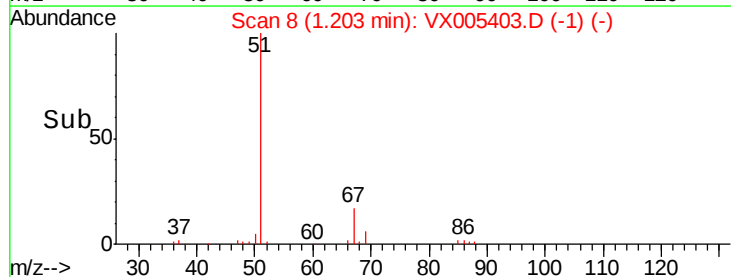
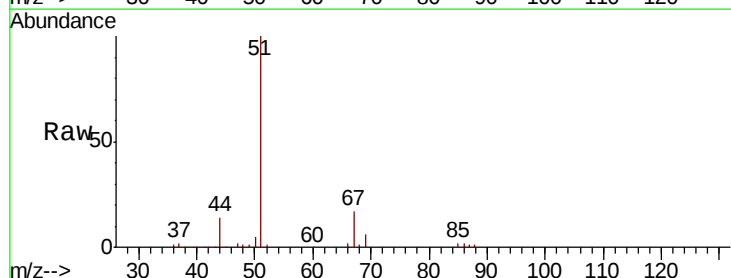
Acq: 17 Oct 2018 21:34

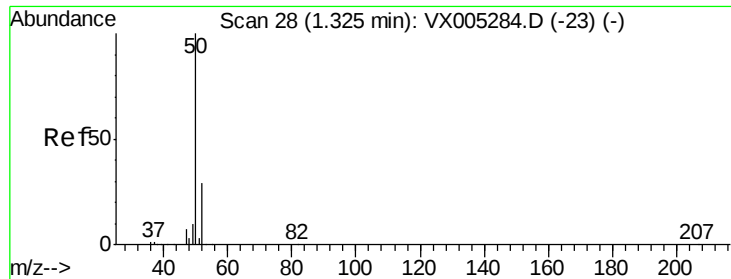
Tgt Ion: 85 Resp: 1181

Ion Ratio Lower Upper

85 100

87 36.4 17.0 50.9





#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

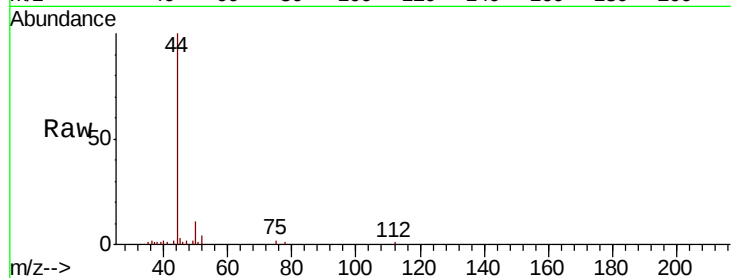
RLF-GW-FD-01

Tot Ion: 50 Resp: 755

Ion Ratio Lower Upper

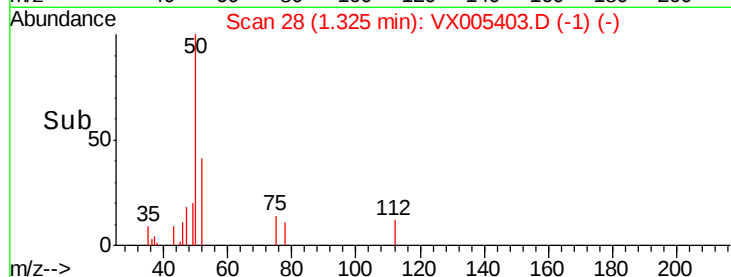
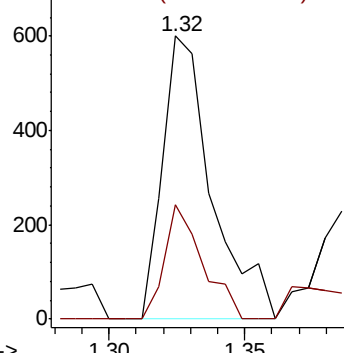
50 100

52 40.5 26.2 39.2#

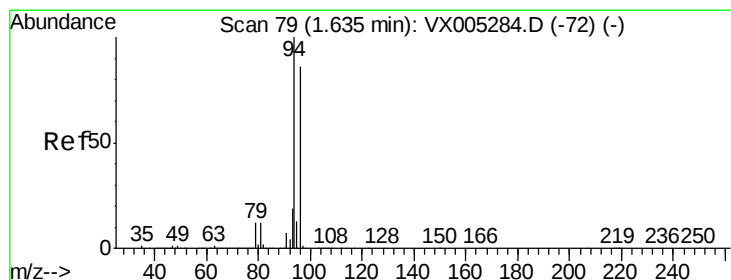


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: 0.955 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005403.D

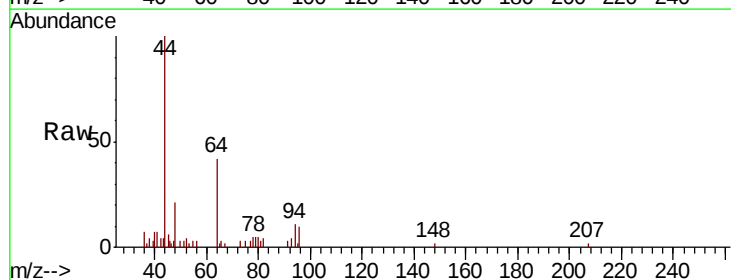
Acq: 17 Oct 2018 21:34

Tgt Ion: 94 Resp: 732

Ion Ratio Lower Upper

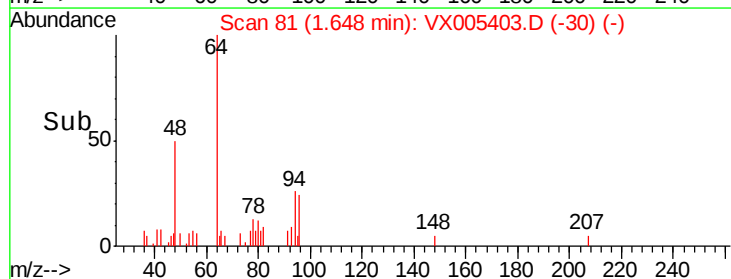
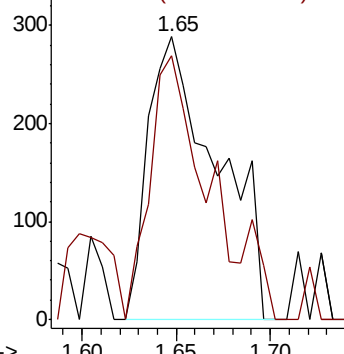
94 100

96 93.4 74.5 111.7

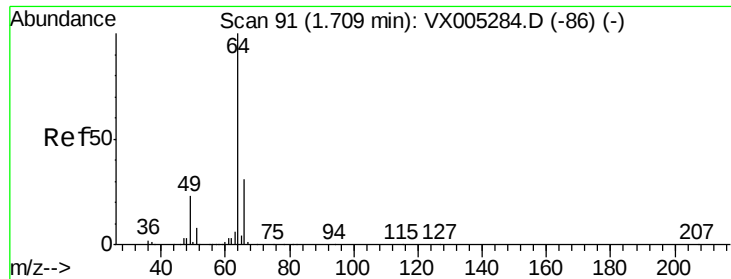


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 2.293 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

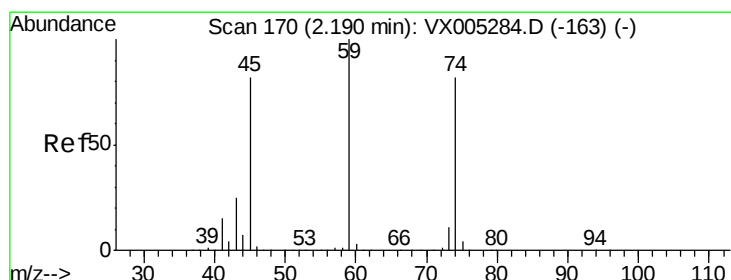
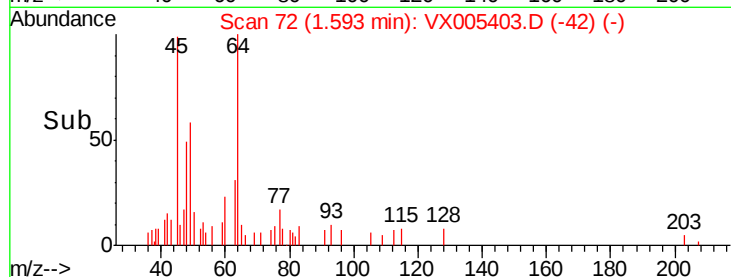
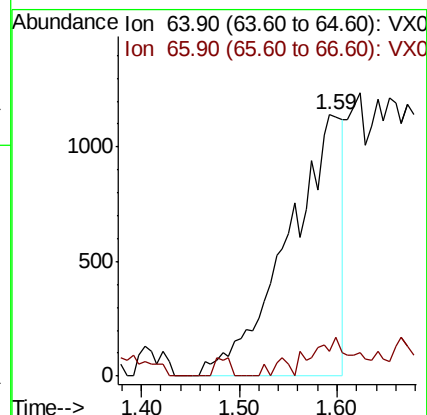
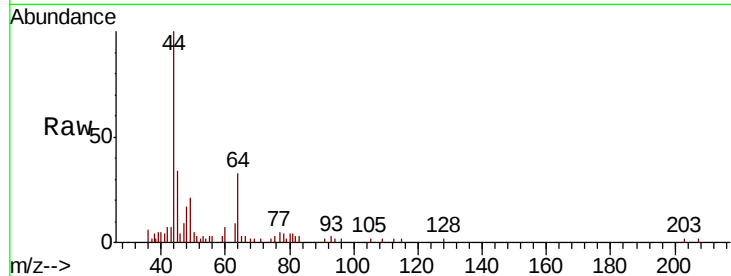
RLF-GW-FD-01

Tot Ion: 64 Resp: 4416

Ion Ratio Lower Upper

64 100

66 9.6 24.6 36.8#



#8

Diethyl Ether

Concen: 6.079 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005403.D

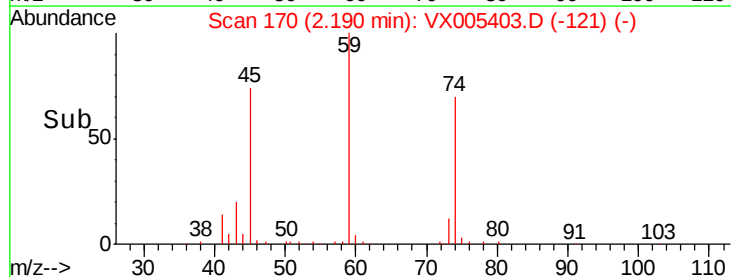
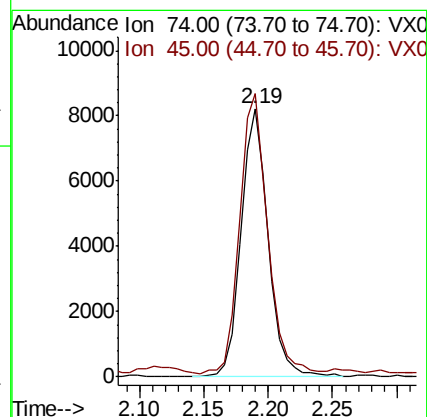
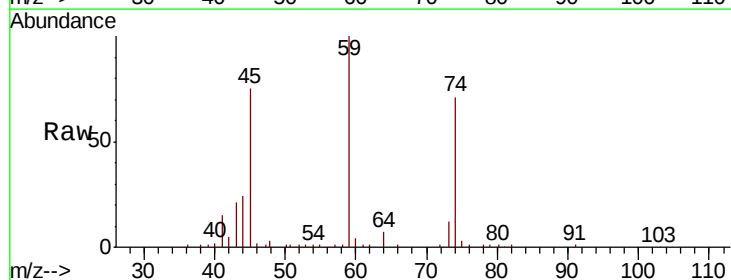
Acq: 17 Oct 2018 21:34

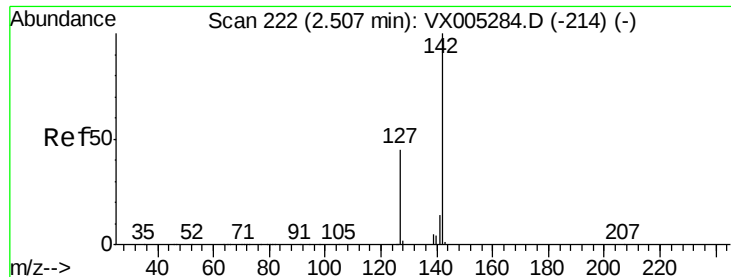
Tgt Ion: 74 Resp: 11977

Ion Ratio Lower Upper

74 100

45 106.8 48.3 144.8

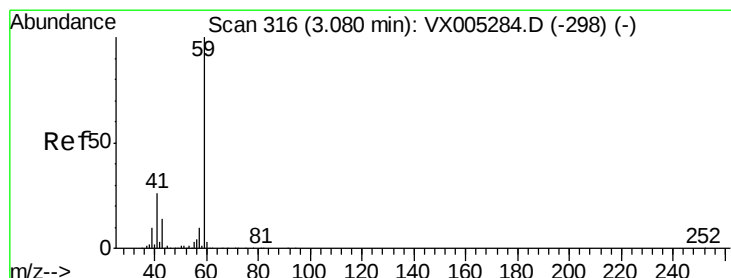
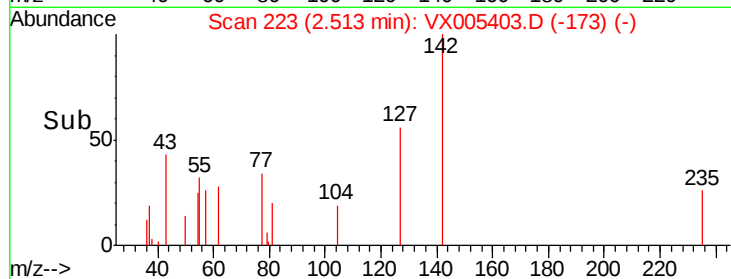
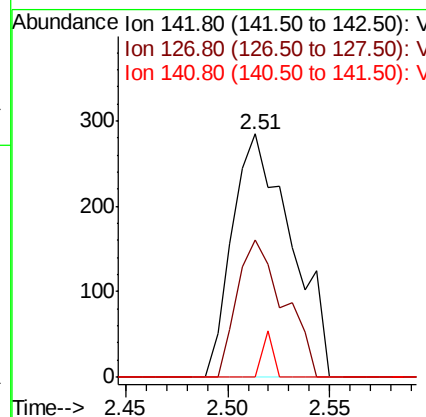
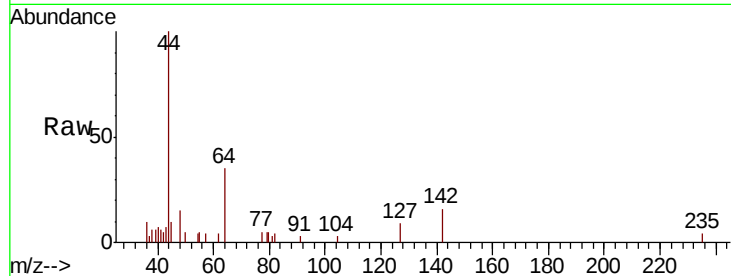




#10
Methvl Iodide
Concen: 2.674 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

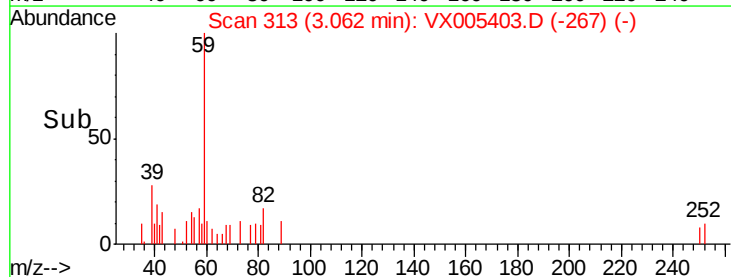
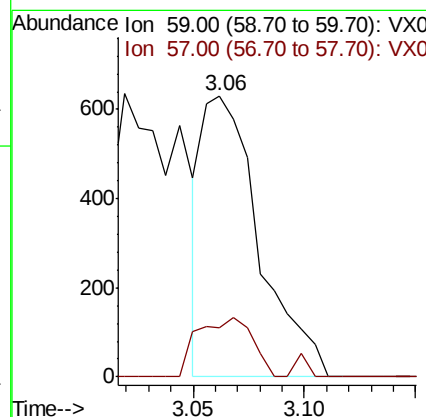
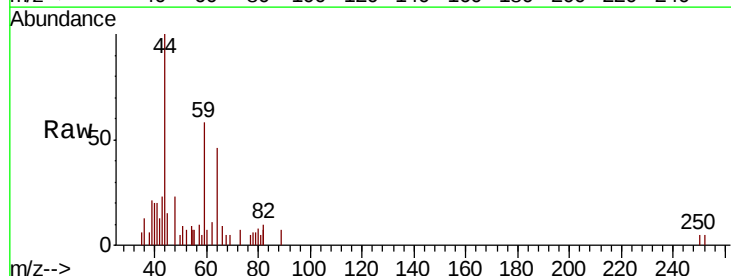
Instrument :
MSVOA_X
ClientSampleId :
RLF-GW-FD-01

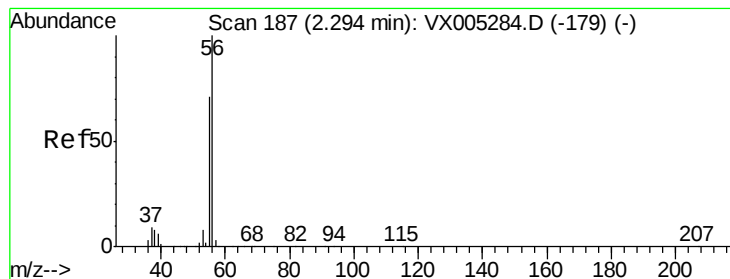
Tot Ion:142 Resp: 570
Ion Ratio Lower Upper
142 100
127 44.7 33.8 50.6
141 3.5 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.187 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Tgt Ion: 59 Resp: 1120
Ion Ratio Lower Upper
59 100
57 20.3 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

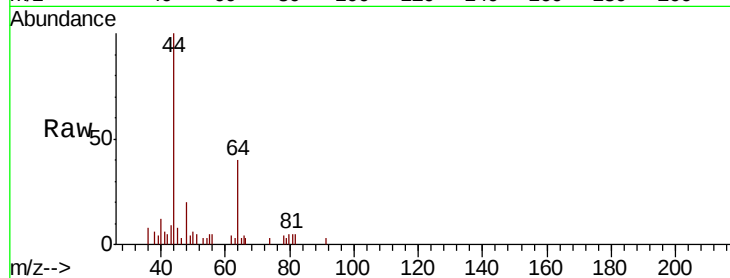
RLF-GW-FD-01

Tot Ion: 56 Resp: 114

Ion Ratio Lower Upper

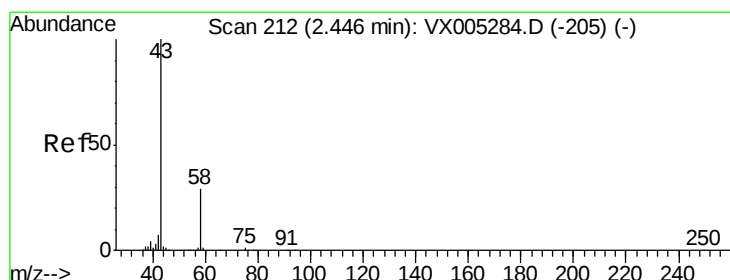
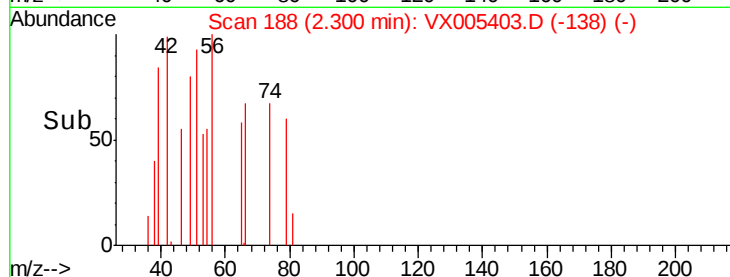
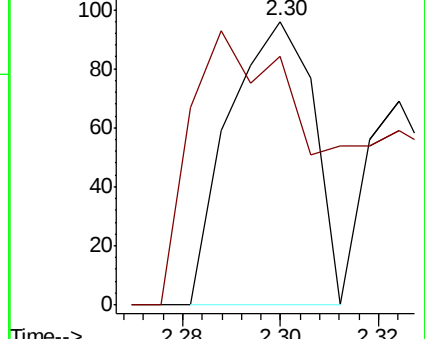
56 100

55 136.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.439 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005403.D

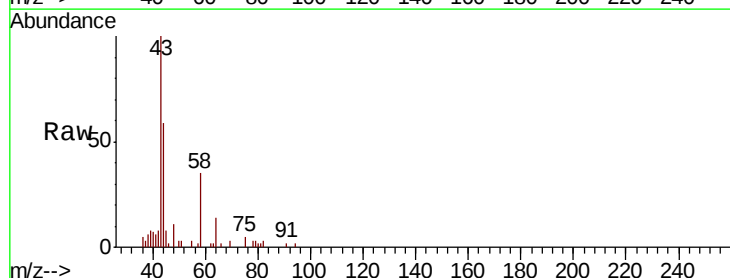
Acq: 17 Oct 2018 21:34

Tgt Ion: 43 Resp: 4716

Ion Ratio Lower Upper

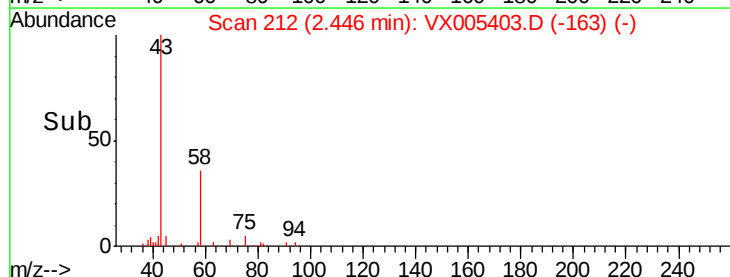
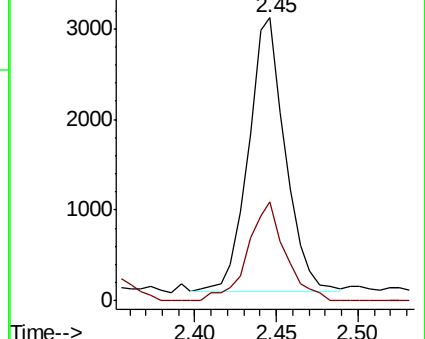
43 100

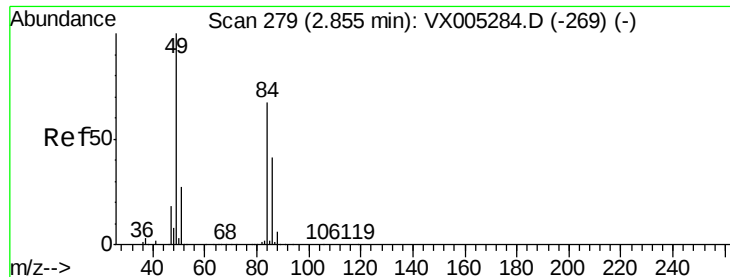
58 36.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

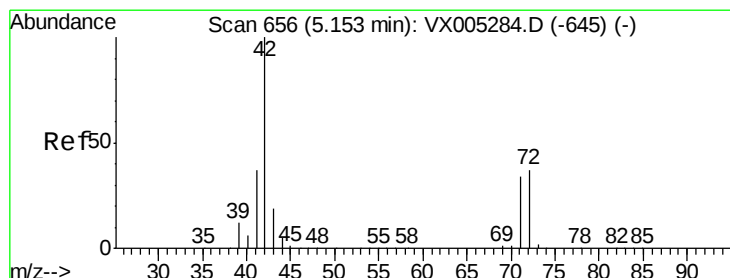
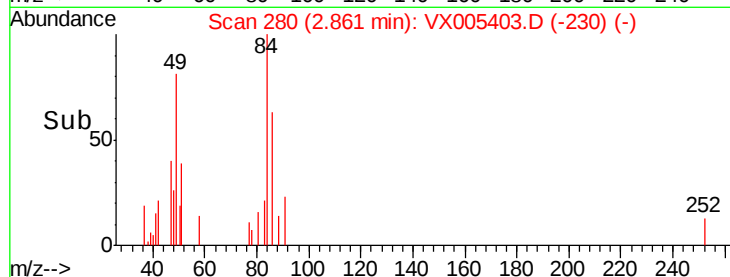
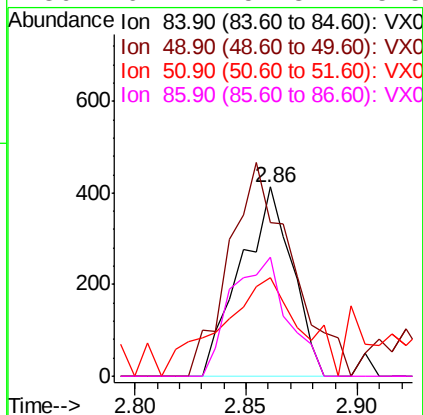
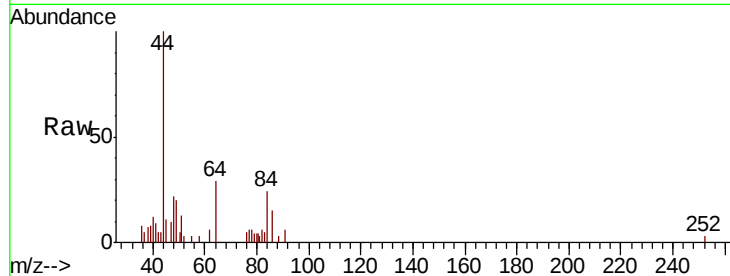




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

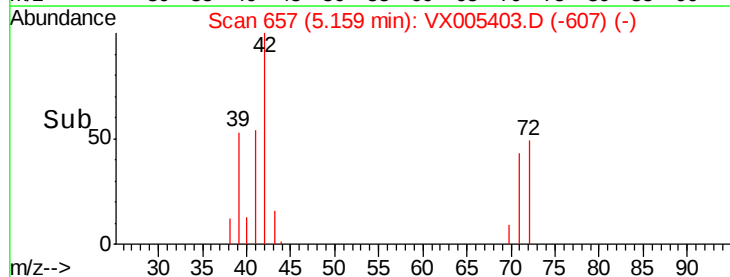
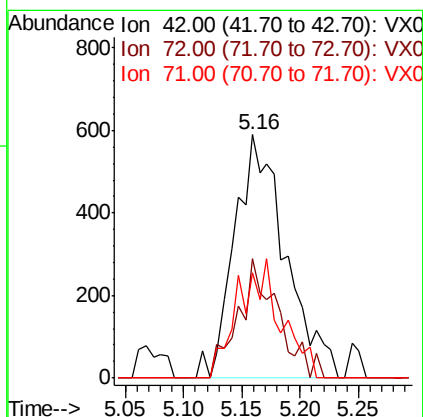
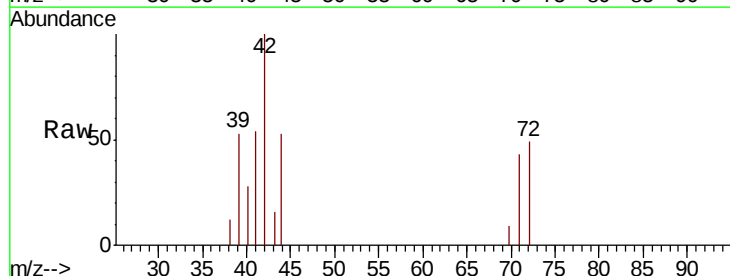
Instrument :
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RLF-GW-FD-01

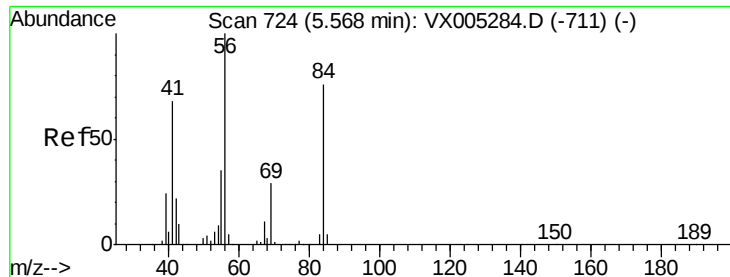
Tot Ion:	84	Resp:	662
Ion	Ratio	Lower	Upper
84	100		
49	80.9	101.2	151.8#
51	52.1	29.5	44.3#
86	62.7	52.3	78.5



#29
Tetrahydrofuran
Concen: 0.993 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Tgt Ion:	42	Resp:	1792
Ion	Ratio	Lower	Upper
42	100		
72	38.3	37.4	56.0
71	41.3	34.5	51.7

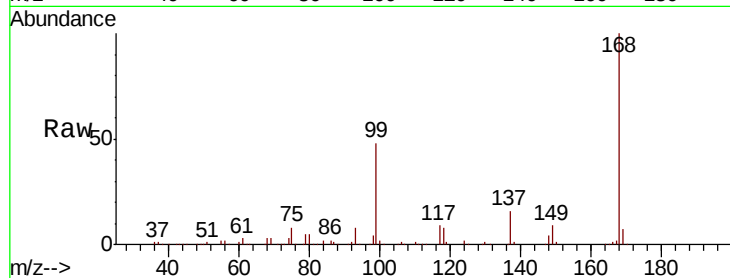




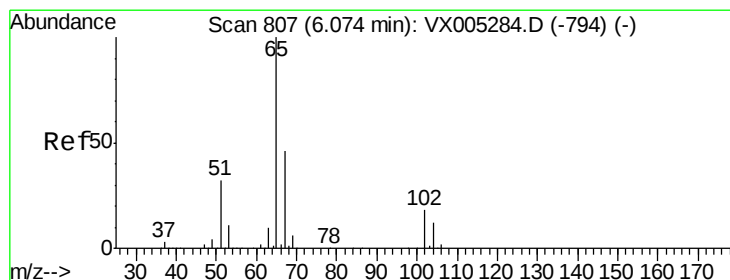
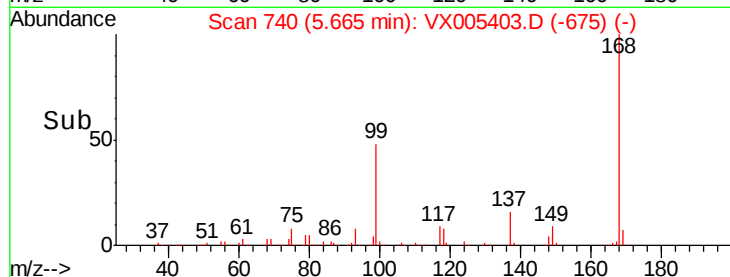
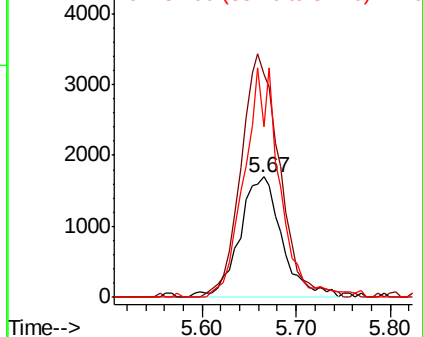
#31
Cyclohexane
Concen: 1.159 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Instrument :
MSVOA_X
ClientSampleId :
RLF-GW-FD-01

Tot Ion: 56 Resp: 5327
Ion Ratio Lower Upper
56 100
69 185.3 25.4 38.2#
84 141.4 71.4 107.2#

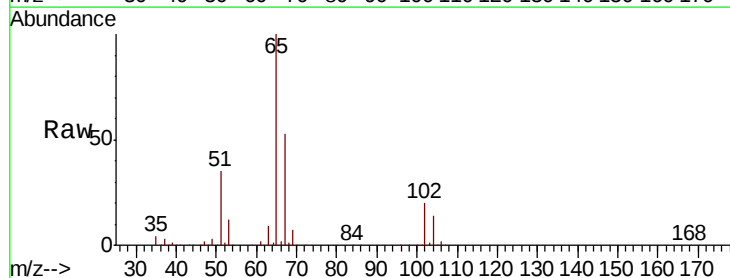


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

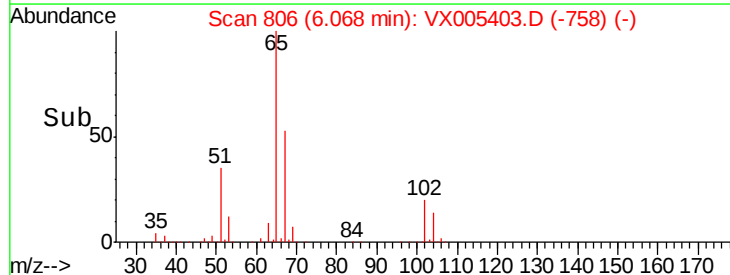
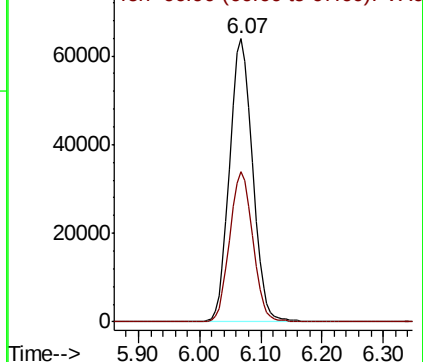


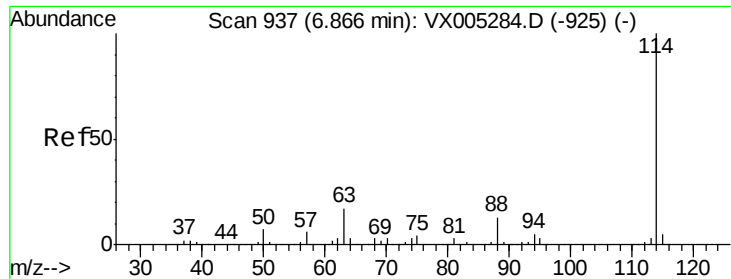
#33
1,2-Dichloroethane-d4
Concen: 49.351 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Tgt Ion: 65 Resp: 165008
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

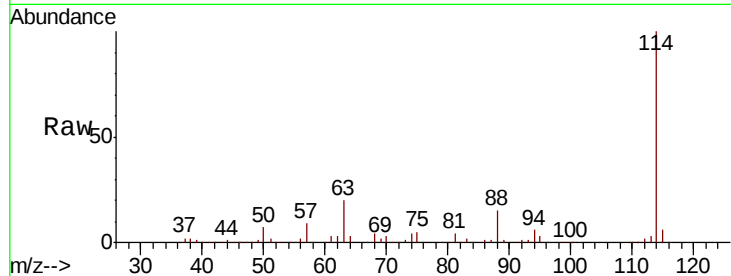




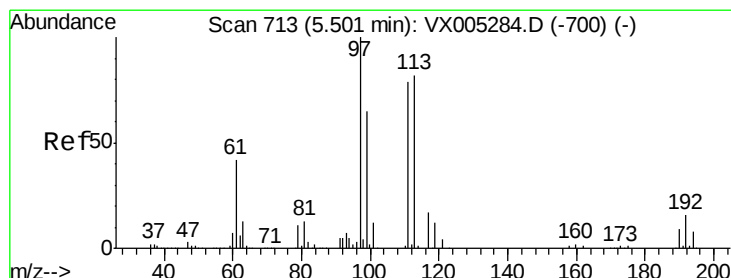
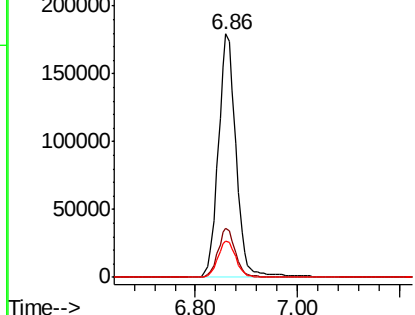
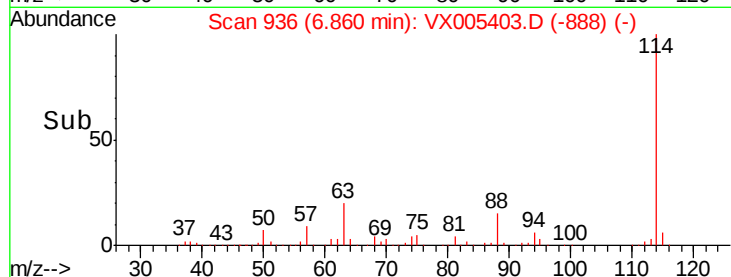
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.01 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Instrument :
MSVOA_X
ClientSampleId :
RLF-GW-FD-01

Tot Ion:114 Resp: 434575
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.0
88 15.1 0.0 30.4

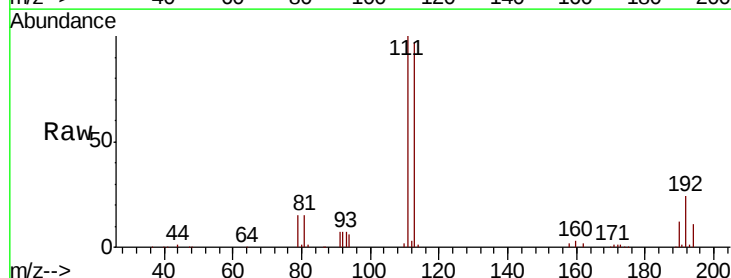


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

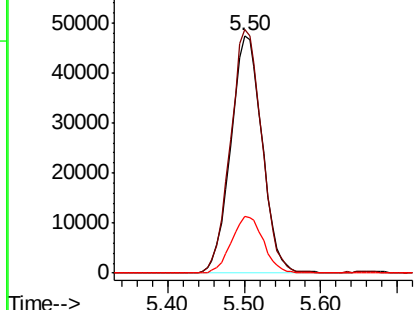
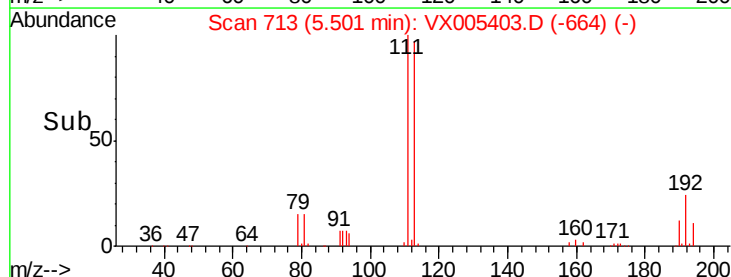


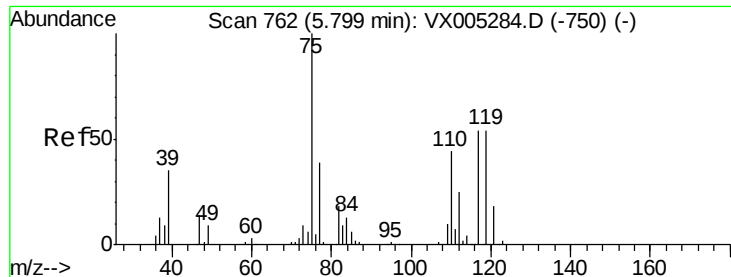
#35
Dibromofluoromethane
Concen: 46.841 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Tgt Ion:113 Resp: 134823
Ion Ratio Lower Upper
113 100
111 102.4 82.4 123.6
192 24.5 19.4 29.2



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: 4.814 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

RLF-GW-FD-01

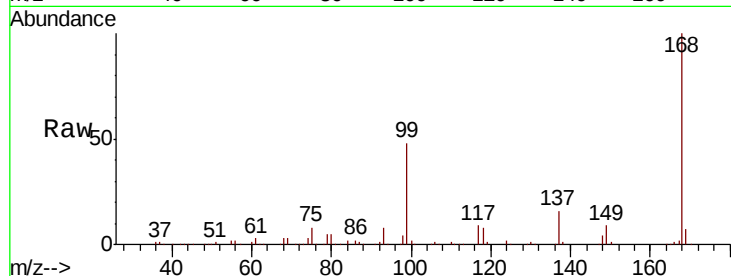
Tot Ion: 75 Resp: 20263

Ion Ratio Lower Upper

75 100

110 9.5 18.0 54.0#

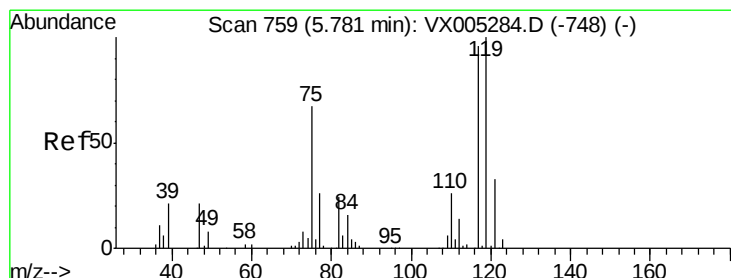
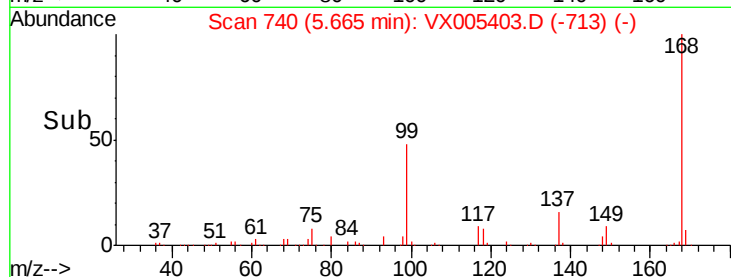
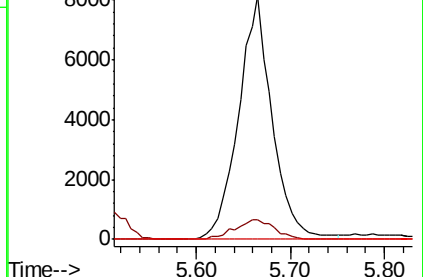
77 0.0 24.6 36.8#



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: 6.254 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

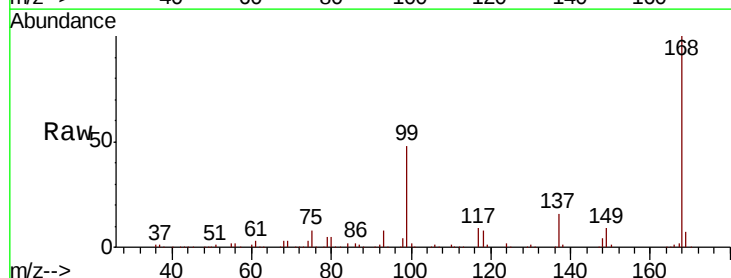
Tgt Ion: 117 Resp: 26447

Ion Ratio Lower Upper

117 100

119 6.3 78.8 118.2#

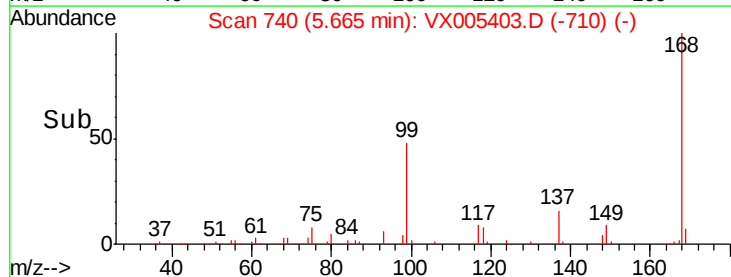
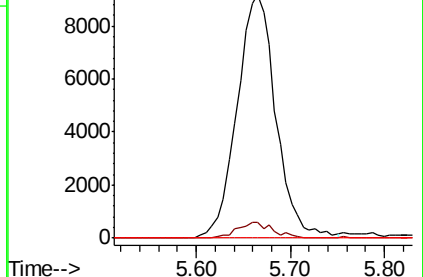
121 0.0 24.9 37.3#

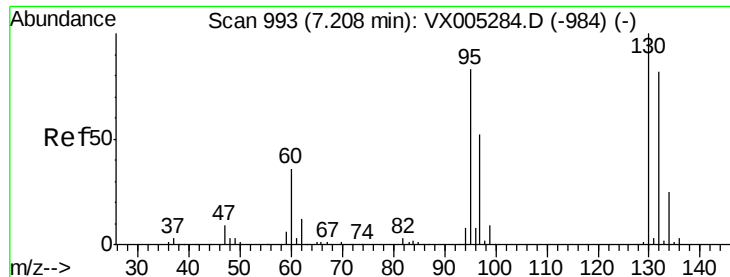


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: Below Cal

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

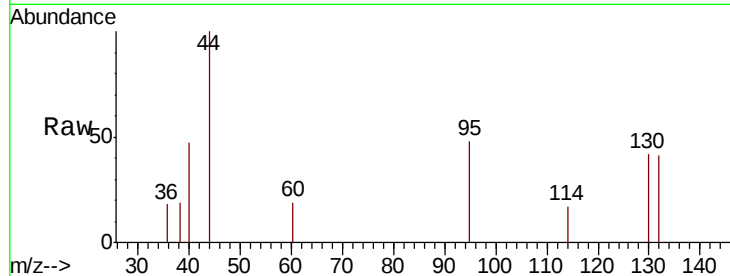
RLF-GW-FD-01

Tot Ion:130 Resp: 198

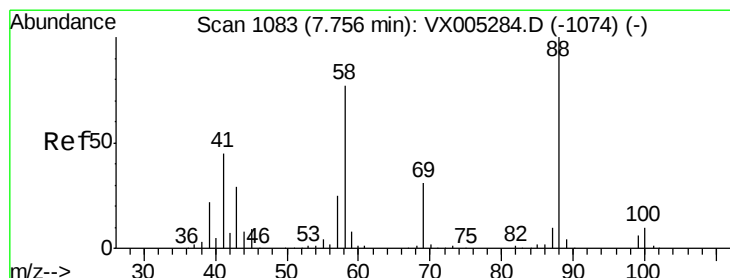
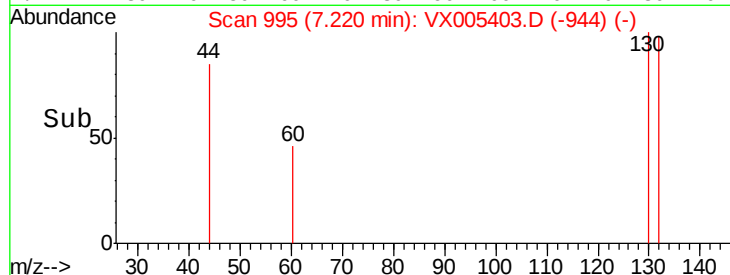
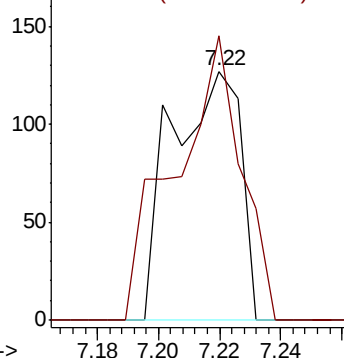
Ion Ratio Lower Upper

130 100

95 114.2 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.522 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

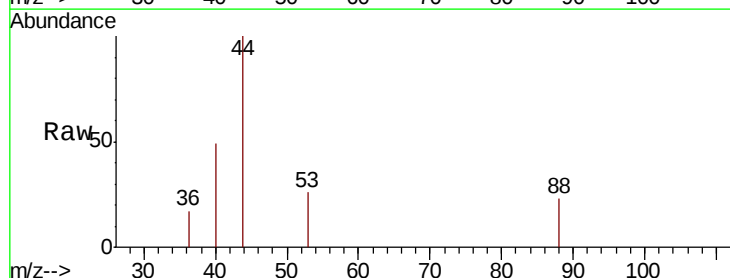
Tgt Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 0.0 24.7 37.1#

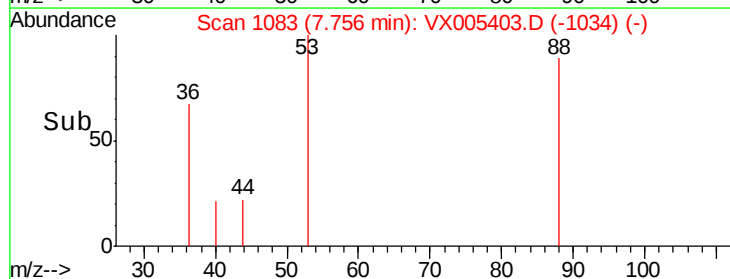
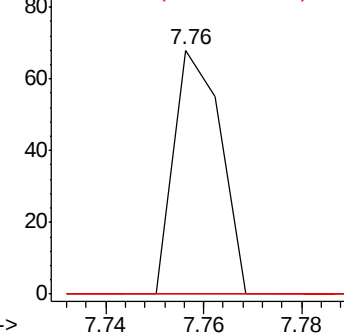
58 0.0 55.3 82.9#

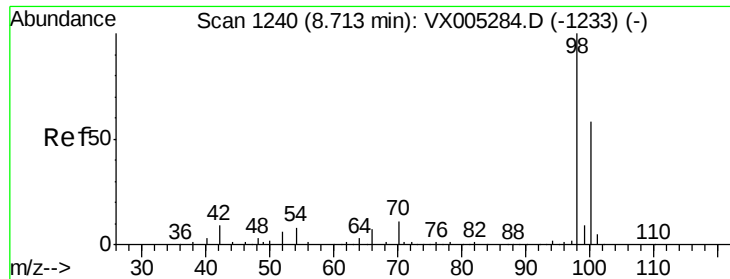


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.709 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

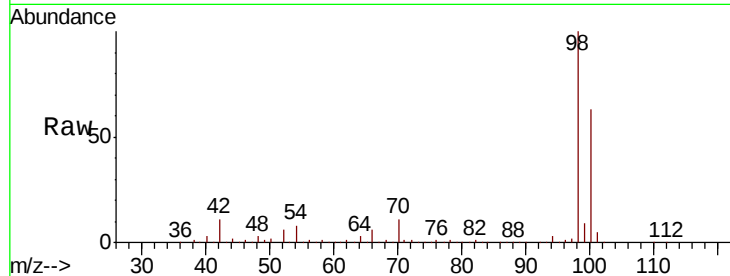
RLF-GW-FD-01

Tot Ion: 98 Resp: 510953

Ion Ratio Lower Upper

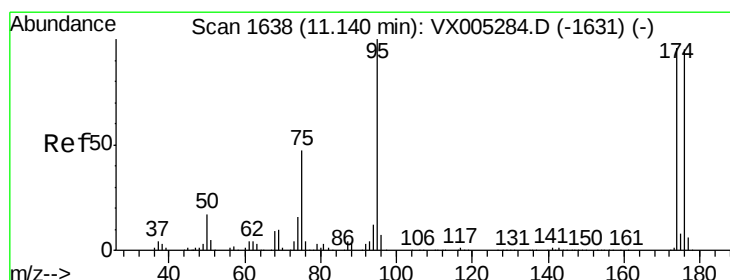
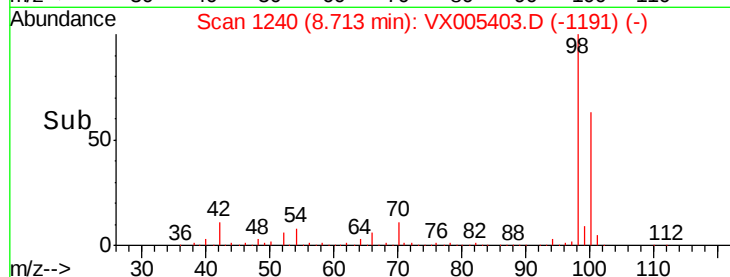
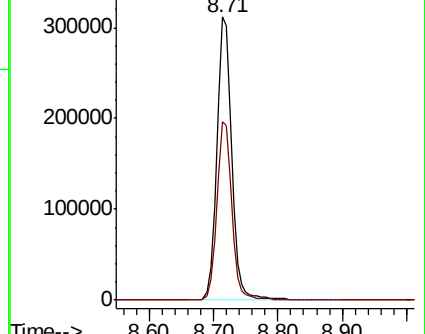
98 100

100 63.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 45.290 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

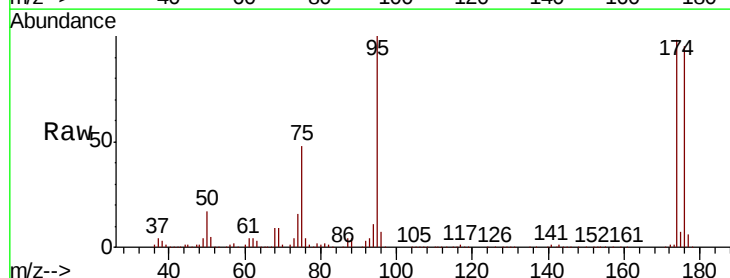
Tgt Ion: 95 Resp: 168121

Ion Ratio Lower Upper

95 100

174 95.2 0.0 185.2

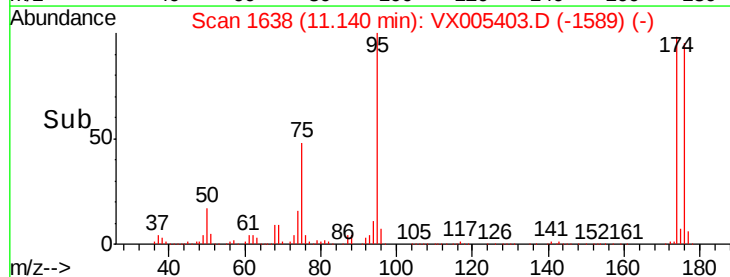
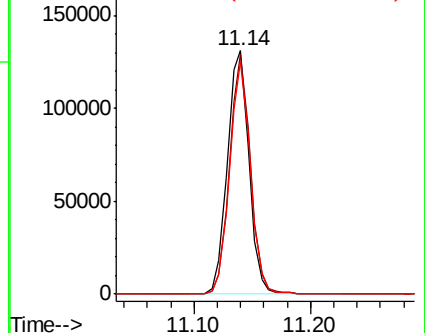
176 91.9 0.0 178.6

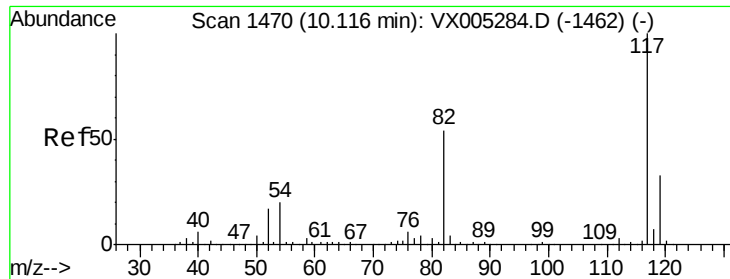


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

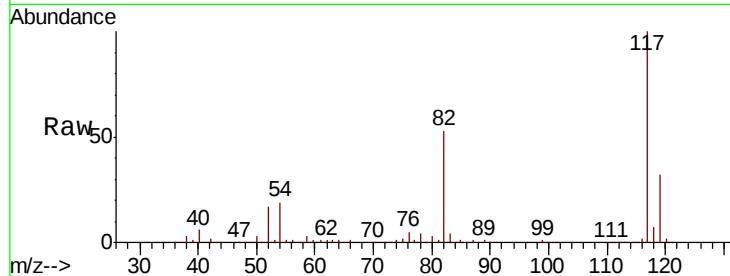




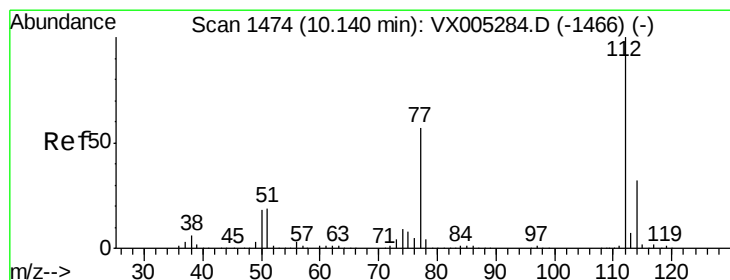
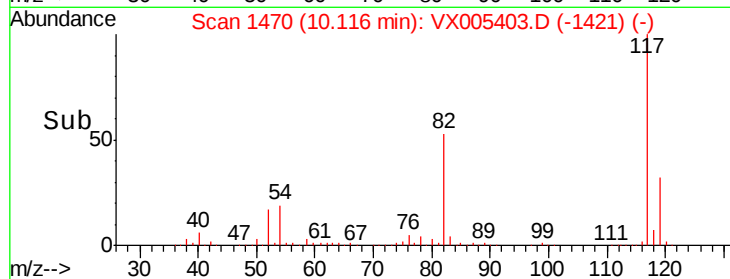
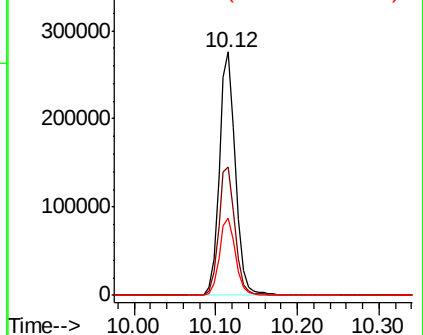
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Instrument :
MSVOA_X
ClientSampleId :
RLF-GW-FD-01

Tot Ion:117 Resp: 381716
Ion Ratio Lower Upper
117 100
82 52.8 47.8 71.6
119 31.9 29.3 43.9

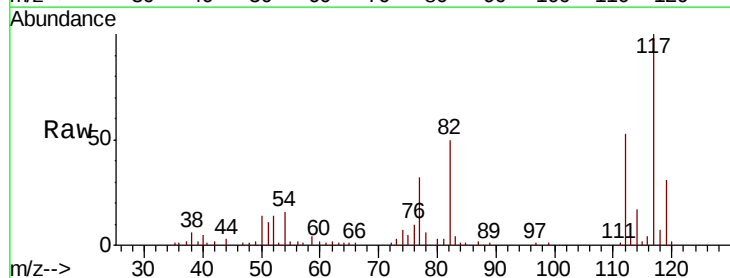


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

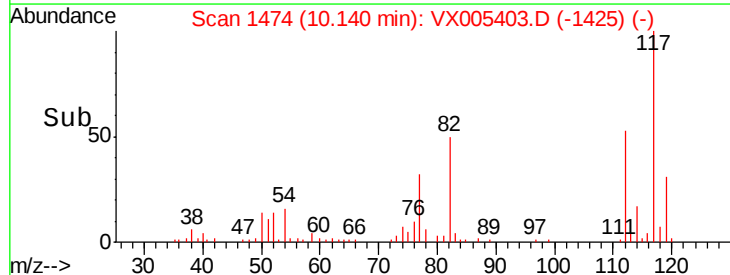
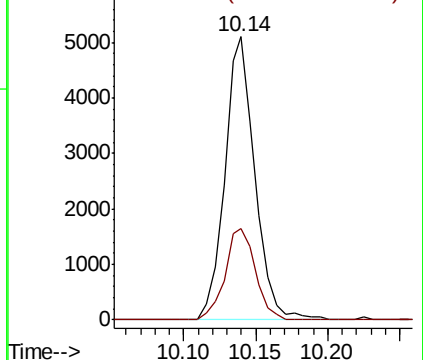


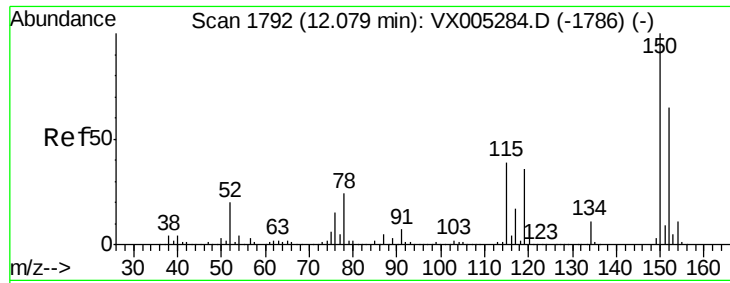
#65
Chlorobenzene
Concen: 0.917 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX005403.D
Acq: 17 Oct 2018 21:34

Tgt Ion:112 Resp: 7445
Ion Ratio Lower Upper
112 100
114 32.4 27.8 41.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

RLF-GW-FD-01

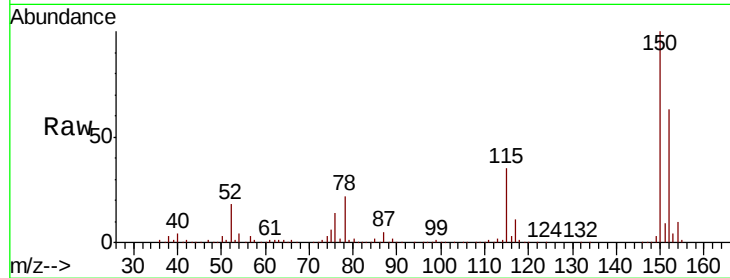
Tot Ion:152 Resp: 183439

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

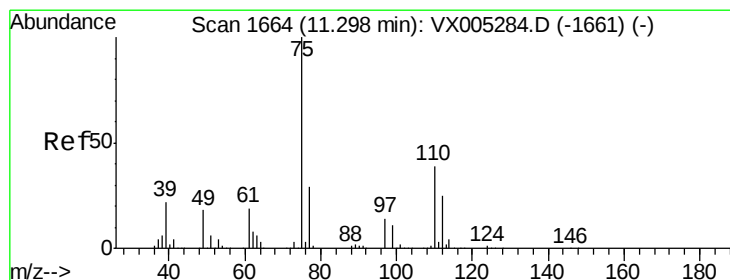
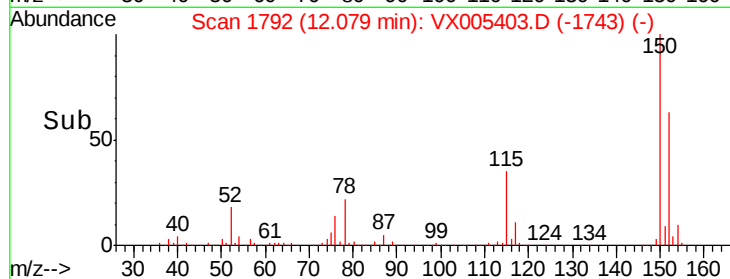
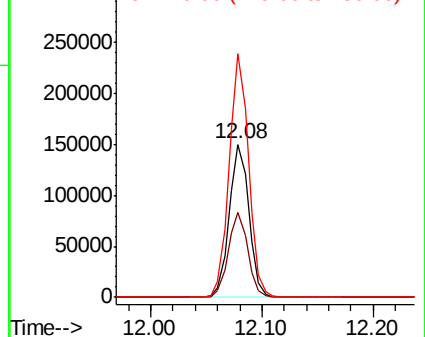
150 156.9 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 22.932 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005403.D

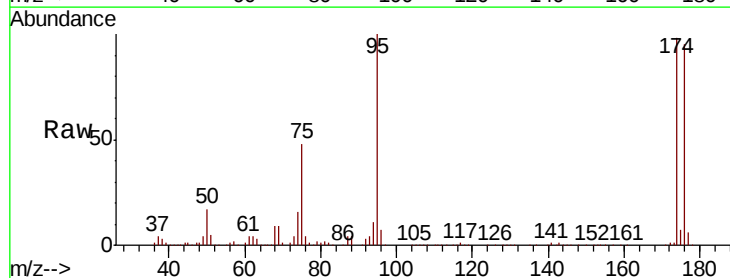
Acq: 17 Oct 2018 21:34

Tgt Ion: 75 Resp: 81596

Ion Ratio Lower Upper

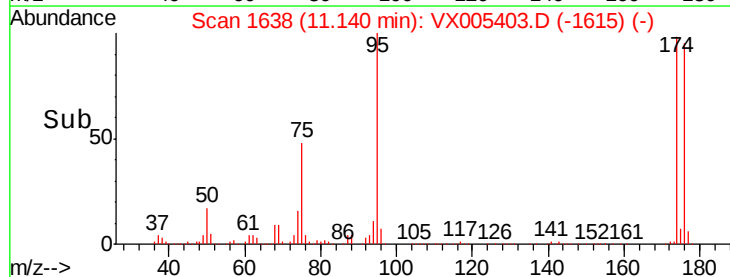
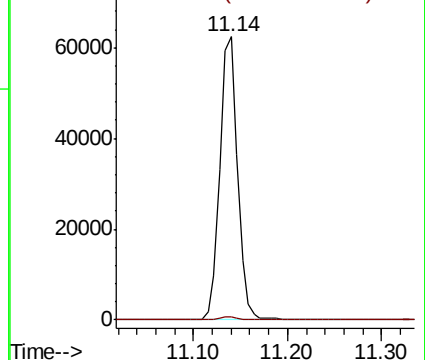
75 100

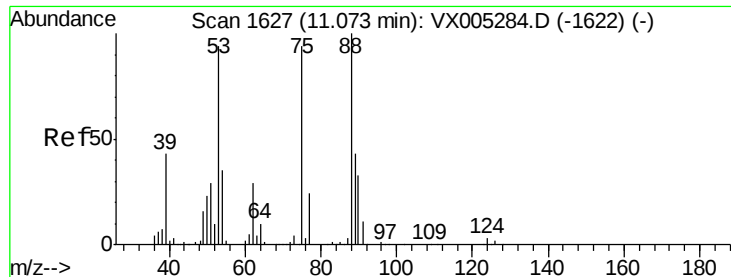
77 1.1 20.2 60.6#



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: 69.678 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA_X

ClientSampleId :

RLF-GW-FD-01

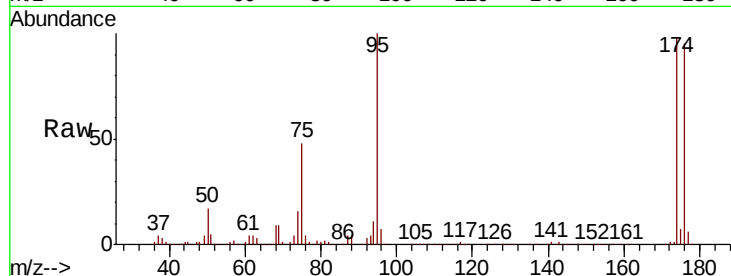
Tot Ion: 75 Resp: 81596

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

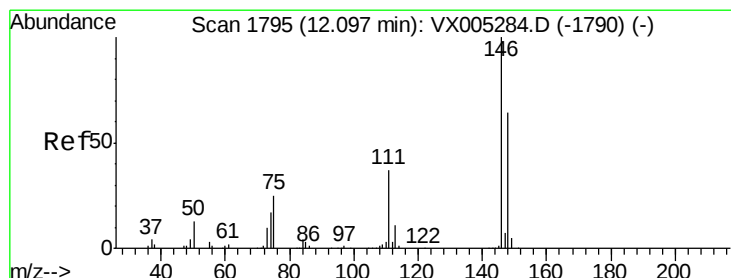
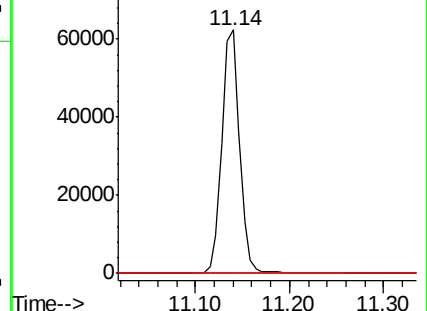
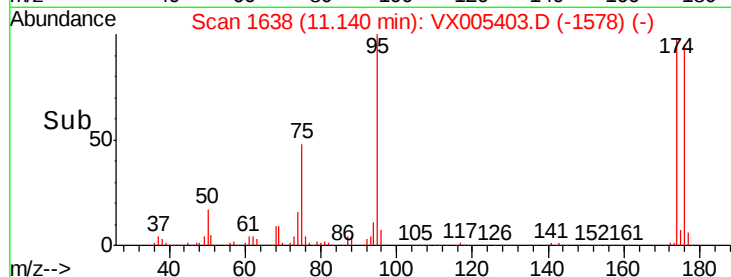
89 0.0 37.2 55.8#



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



#88

1,4-Dichlorobenzene

Concen: 0.622 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

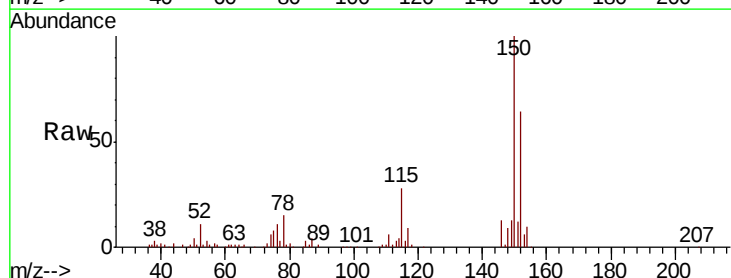
Tgt Ion: 146 Resp: 3707

Ion Ratio Lower Upper

146 100

111 96.0 18.1 54.1#

148 81.0 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

