

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052819\
 Data File : VX009918.D
 Acq On : 28 May 2019 16:33
 Operator : JC/SP
 Sample : K3038-02DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW028-190522DL

Quant Time: May 29 04:11:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	179476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	287853	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	259307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111672	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	121945	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	5.49	113	88483	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
50) Toluene-d8	8.71	98	367778	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
62) 4-Bromofluorobenzene	11.13	95	123977	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	

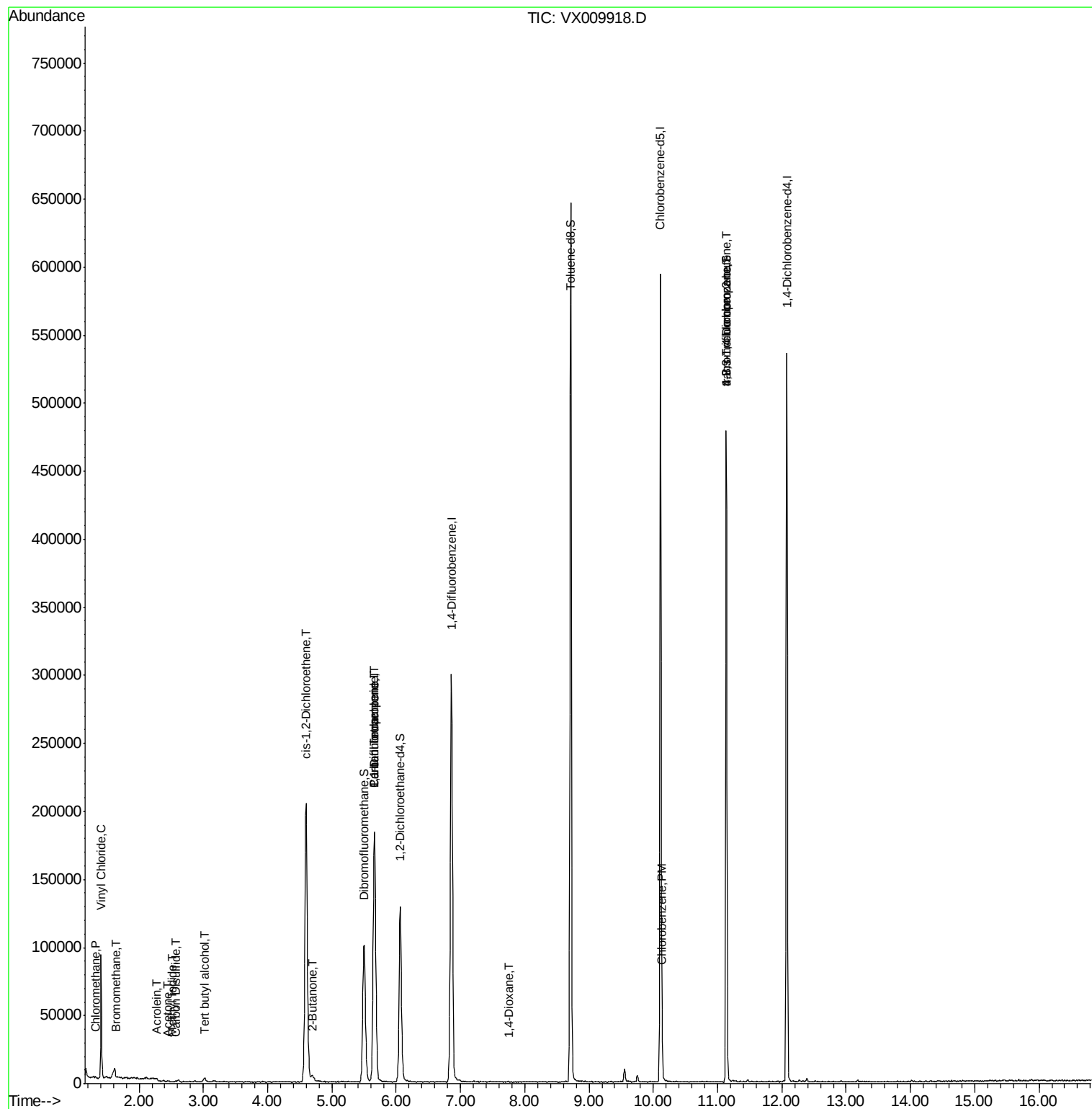
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	596	0.202	ug/l #	67
4) Vinyl Chloride	1.41	62	58565	22.034	ug/l	100
5) Bromomethane	1.64	94	559	0.347	ug/l #	67
10) Methyl Iodide	2.52	142	120	4.706	ug/l #	42
11) Tert butyl alcohol	3.01	59	1910	3.061	ug/l #	81
13) Acrolein	2.28	56	149	21.405	ug/l #	1
16) Acetone	2.45	43	784	0.535	ug/l #	87
17) Carbon Disulfide	2.57	76	692	0.509	ug/l #	84
25) 2-Butanone	4.68	43	630	0.276	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	125341	53.690	ug/l	88
36) 1,1-Dichloropropene	5.66	75	14197	4.861	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17234	6.829	ug/l #	15
49) 1,4-Dioxane	7.75	88	41	0.678	ug/l #	44
65) Chlorobenzene	10.14	112	8806	1.622	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	63843	23.907	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63843	59.151	ug/l #	10

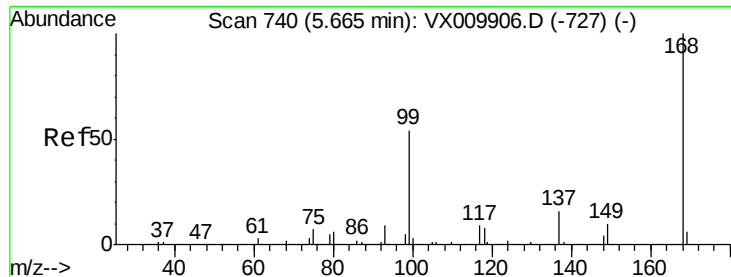
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 29 04:00:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

Instrument :

MSVOA_X

ClientSampleId :

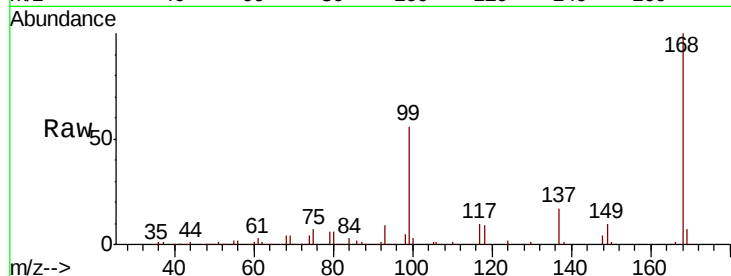
LF012MW028-190522DL

Tot Ion:168 Resp: 179476

Ion Ratio Lower Upper

168 100

99 56.1 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

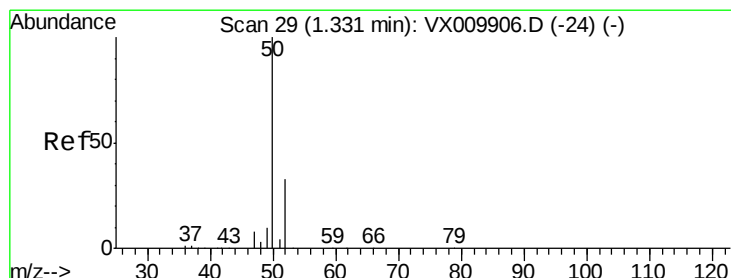
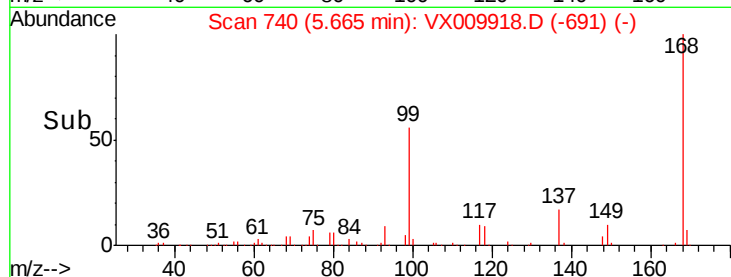
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.202 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX009918.D

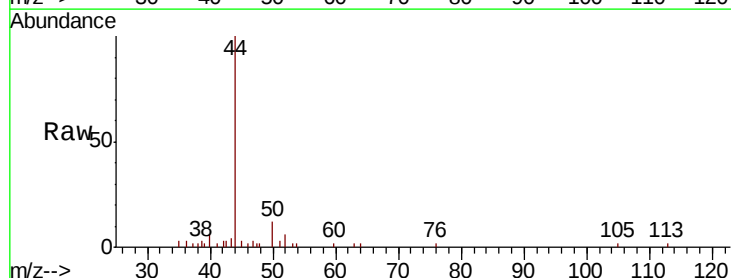
Acq: 28 May 2019 16:33

Tgt Ion: 50 Resp: 596

Ion Ratio Lower Upper

50 100

52 51.1 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

400

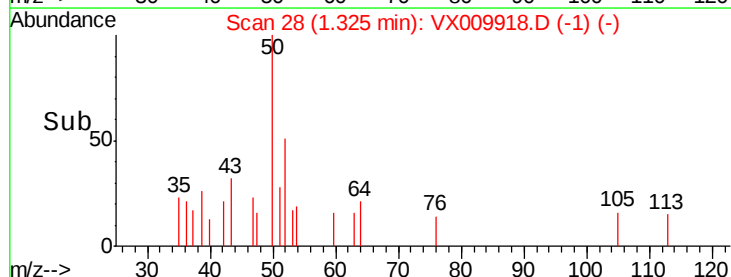
300

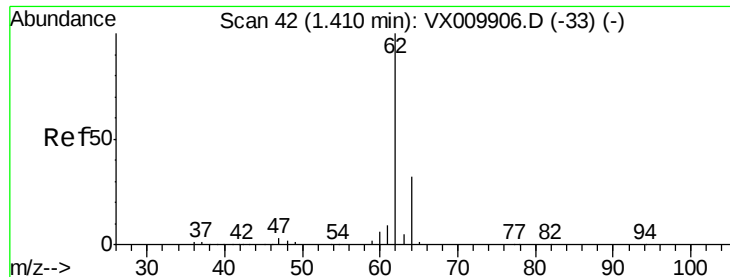
200

100

0

Time--> 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 22.034 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

Instrument :

MSVOA_X

ClientSampleId :

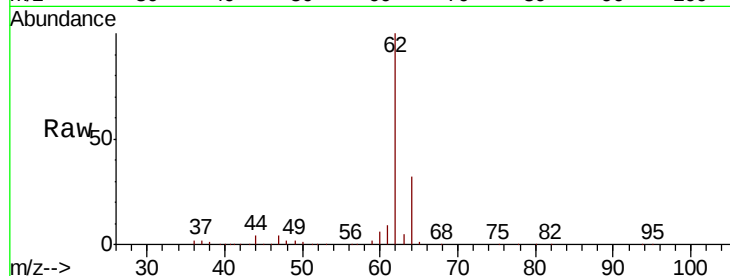
LF012MW028-190522DL

Tot Ion: 62 Resp: 58565

Ion Ratio Lower Upper

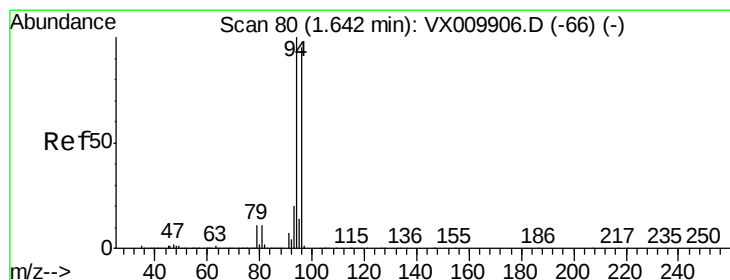
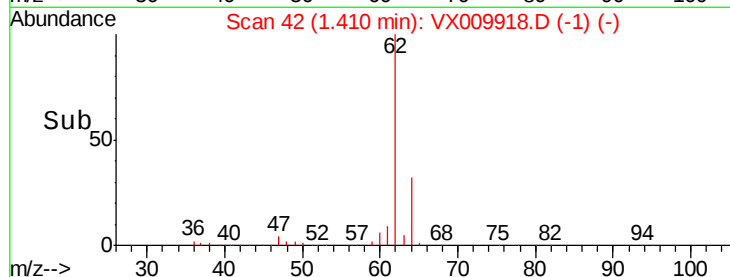
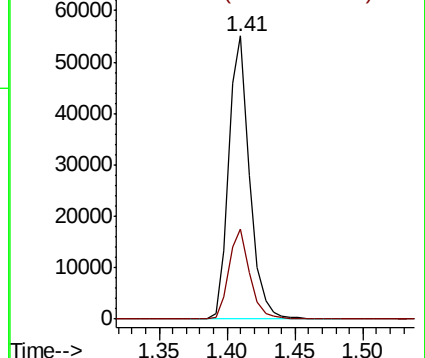
62 100

64 31.9 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.347 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX009918.D

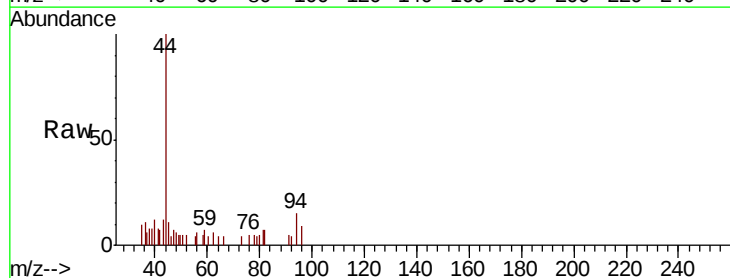
Acq: 28 May 2019 16:33

Tgt Ion: 94 Resp: 559

Ion Ratio Lower Upper

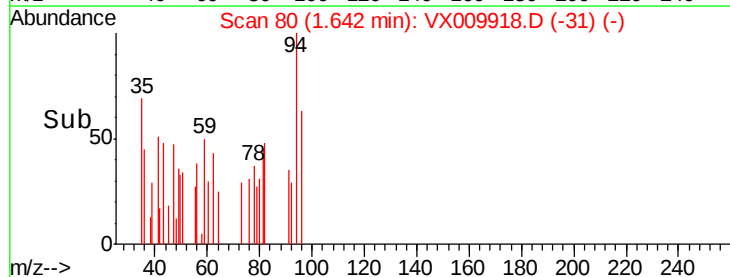
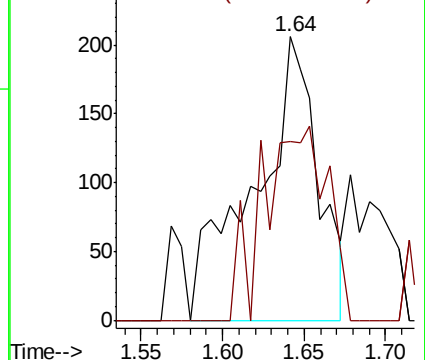
94 100

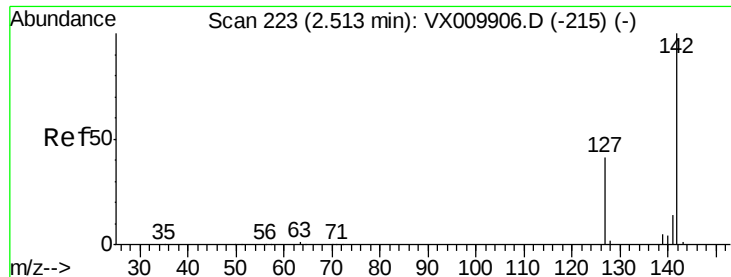
96 63.1 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

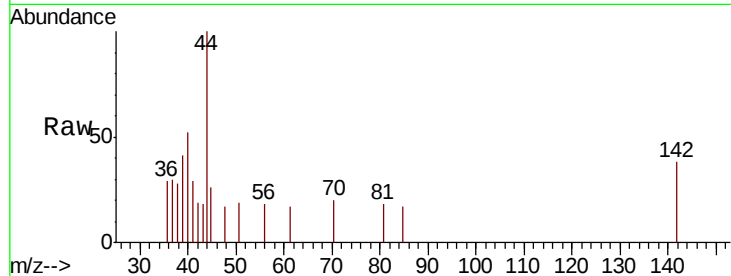




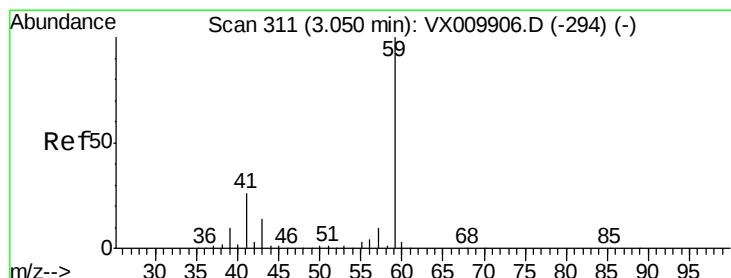
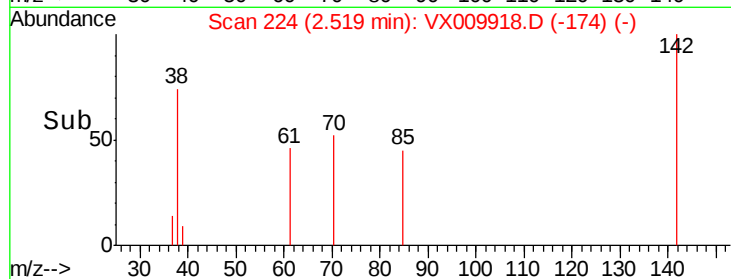
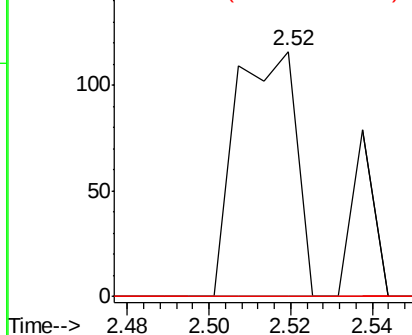
#10
Methyl Iodide
Concen: 4.706 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009918.D
Acq: 28 May 2019 16:33

Instrument :
MSVOA_X
ClientSampleId :
LF012MW028-190522DL

Tot Ion:142 Resp: 120
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.4#
141 0.0 11.4 17.0#

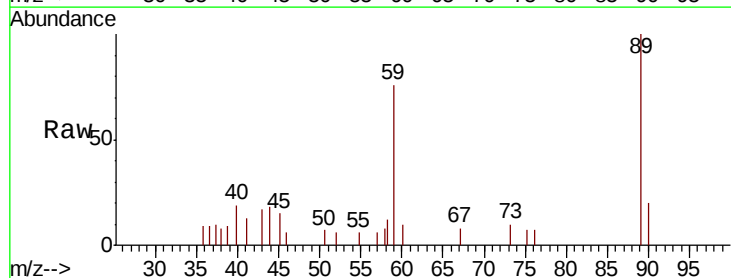


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

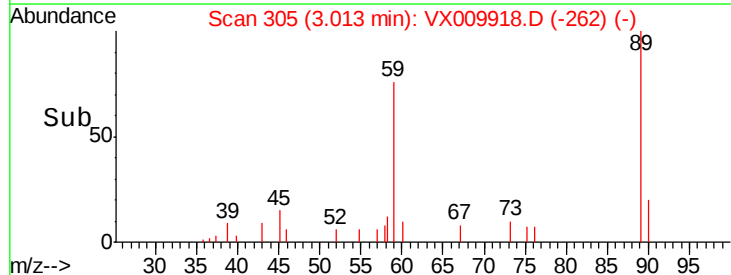
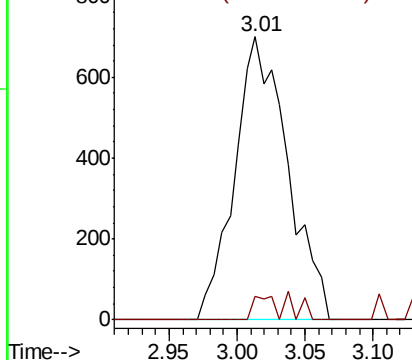


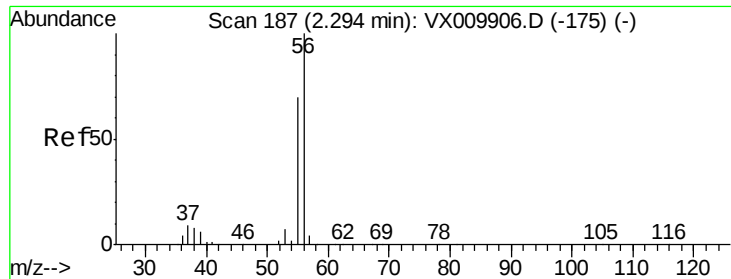
#11
Tert butyl alcohol
Concen: 3.061 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009918.D
Acq: 28 May 2019 16:33

Tgt Ion: 59 Resp: 1910
Ion Ratio Lower Upper
59 100
57 3.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 21.405 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

Instrument :

MSVOA_X

ClientSampleId :

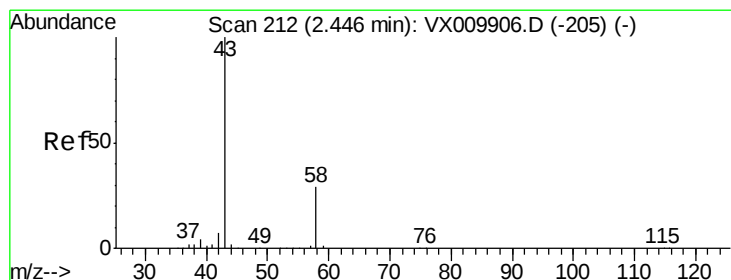
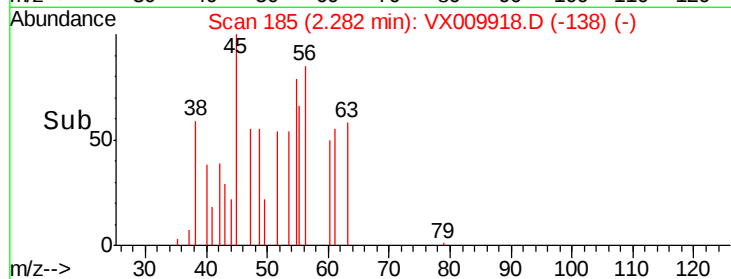
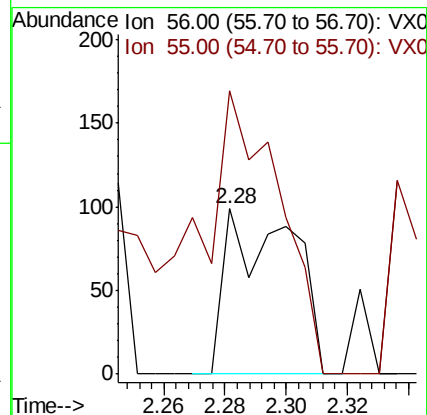
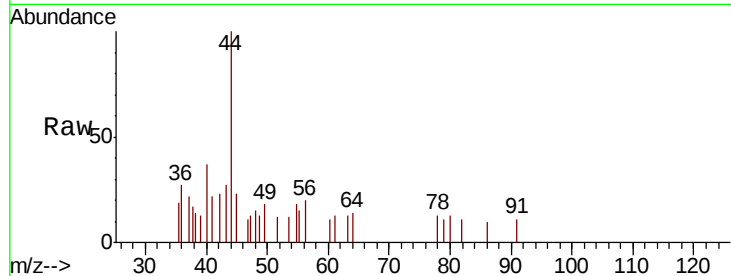
LF012MW028-190522DL

Tot Ion: 56 Resp: 149

Ion Ratio Lower Upper

56 100

55 185.2 57.0 85.4#



#16

Acetone

Concen: 0.535 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX009918.D

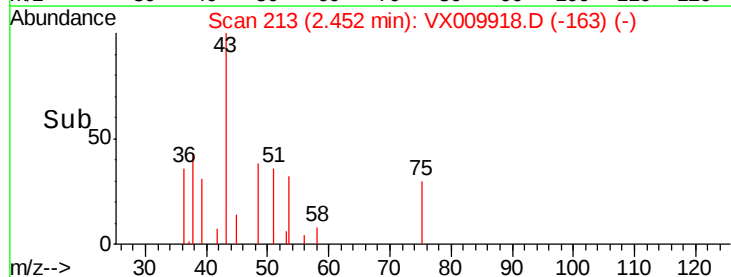
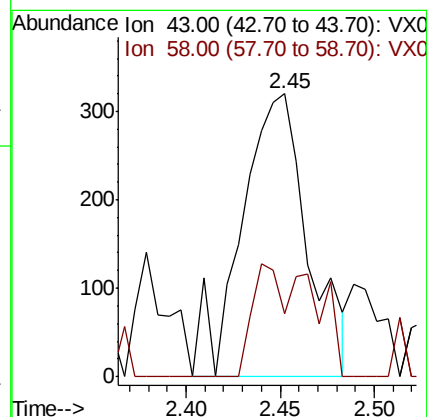
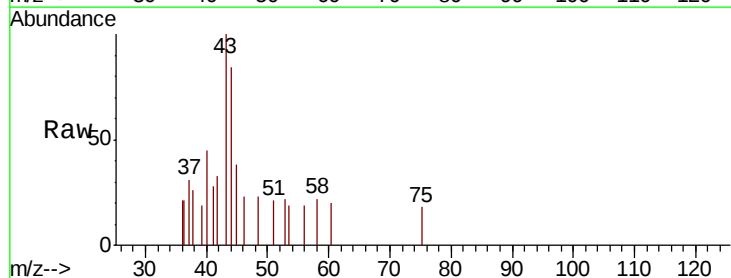
Acq: 28 May 2019 16:33

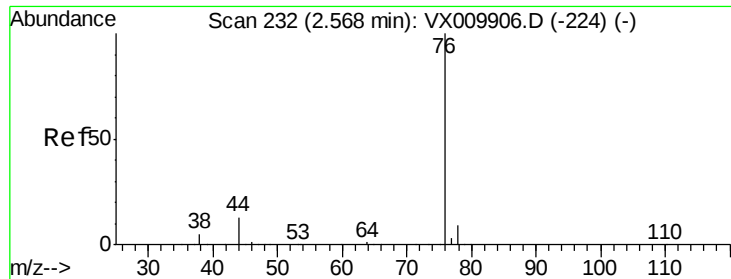
Tgt Ion: 43 Resp: 784

Ion Ratio Lower Upper

43 100

58 22.2 23.2 34.8#





#17

Carbon Disulfide

Concen: 0.509 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

Instrument :

MSVOA_X

ClientSampleId :

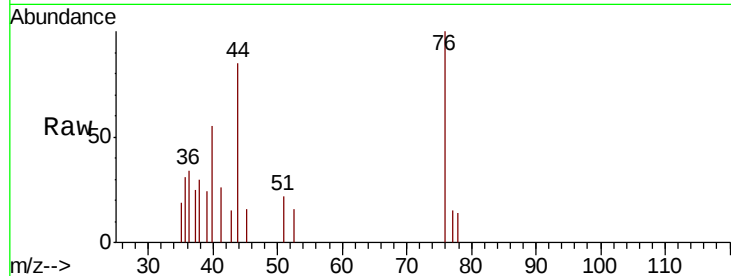
LF012MW028-190522DL

Tot Ion: 76 Resp: 692

Ion Ratio Lower Upper

76 100

78 14.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

200

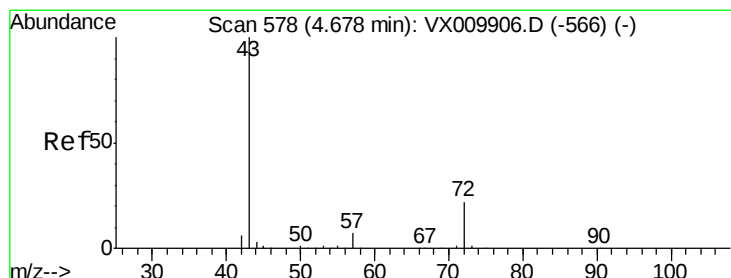
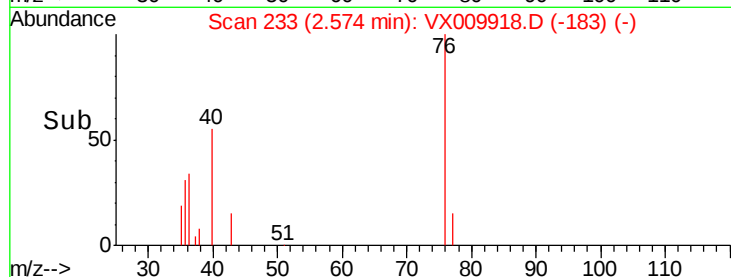
100

0

2.55

2.60

Time-->



#25

2-Butanone

Concen: 0.276 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009918.D

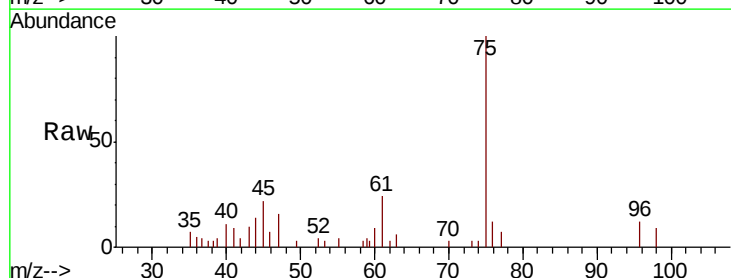
Acq: 28 May 2019 16:33

Tgt Ion: 43 Resp: 630

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

400

300

200

100

0

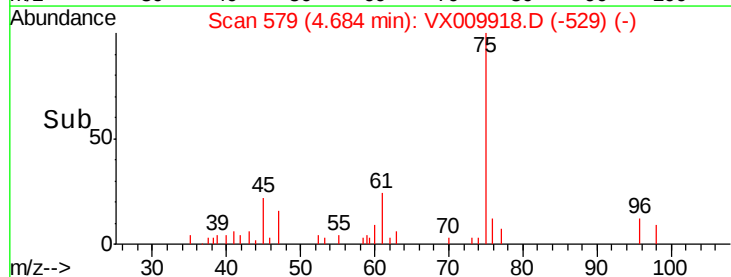
4.60

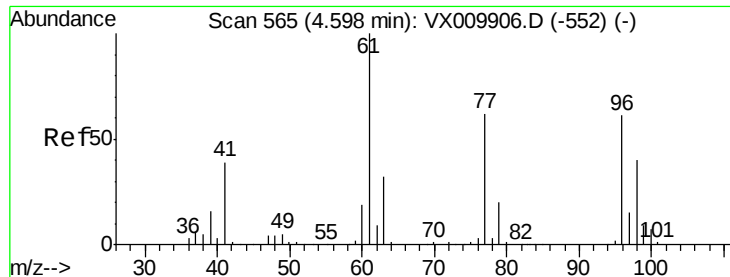
4.65

4.70

4.75

Time-->



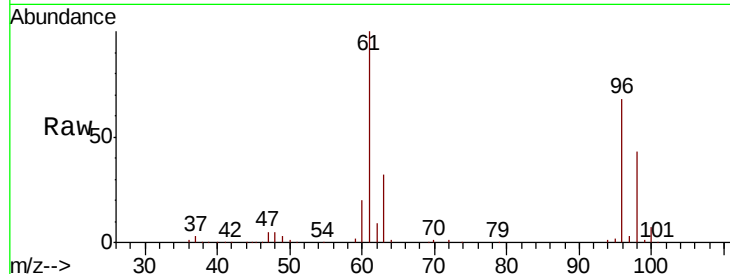


#27

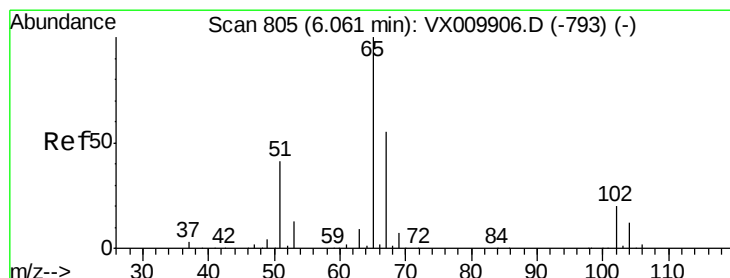
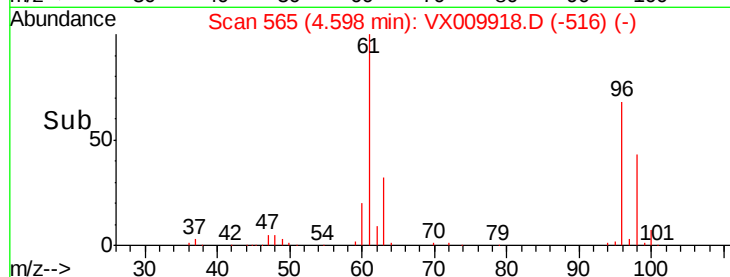
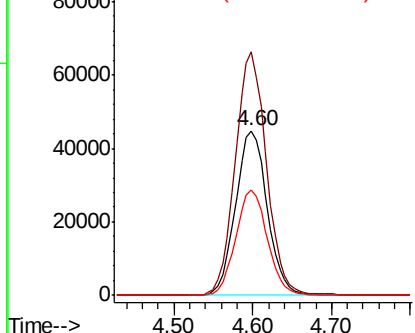
cis-1,2-Dichloroethene
 Concen: 53.690 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX009918.D
 Acq: 28 May 2019 16:33

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW028-190522DL

Tot Ion: 96 Resp: 125341
 Ion Ratio Lower Upper
 96 100
 61 146.2 0.0 334.0
 98 64.0 0.0 131.6



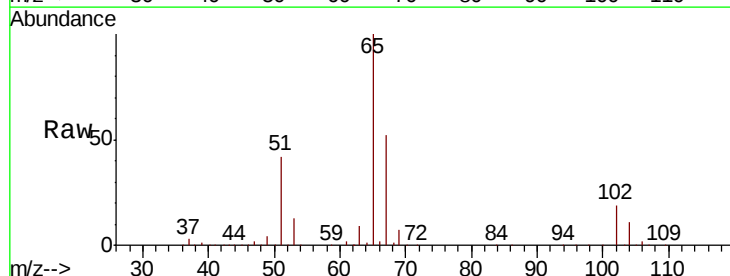
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



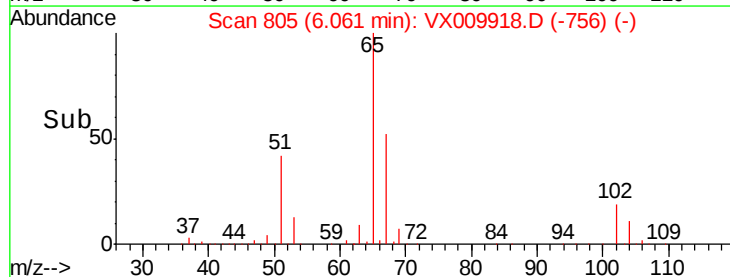
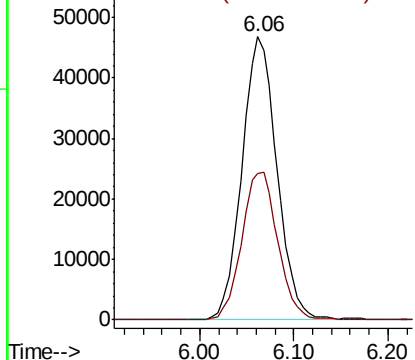
#33

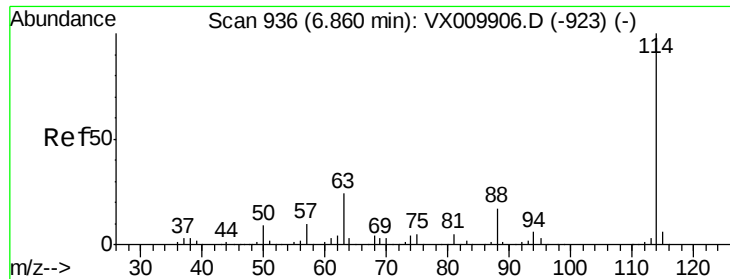
1,2-Dichloroethane-d4
 Concen: 48.100 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009918.D
 Acq: 28 May 2019 16:33

Tgt Ion: 65 Resp: 121945
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.4



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

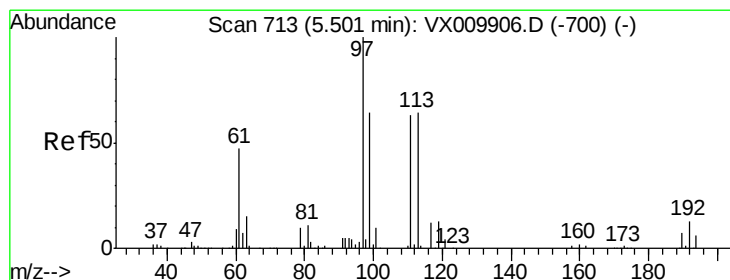
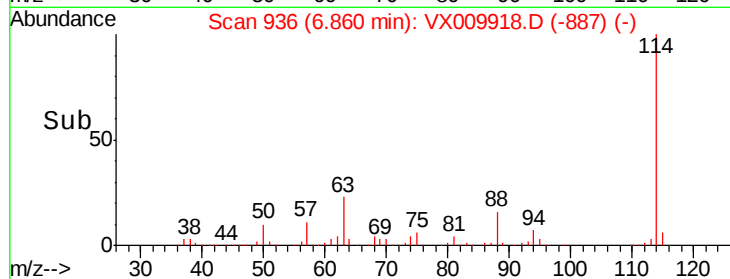
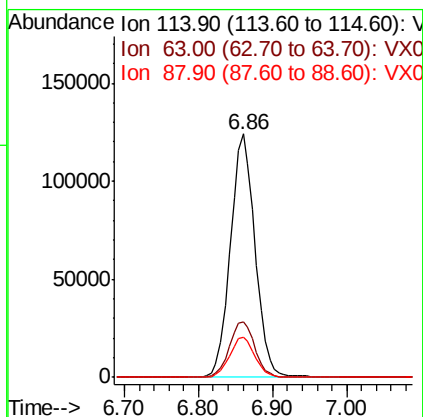
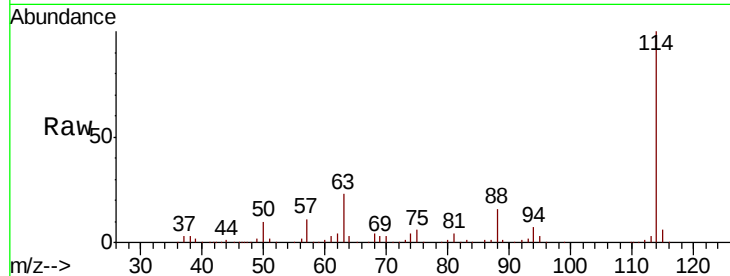




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009918.D
 Acq: 28 May 2019 16:33

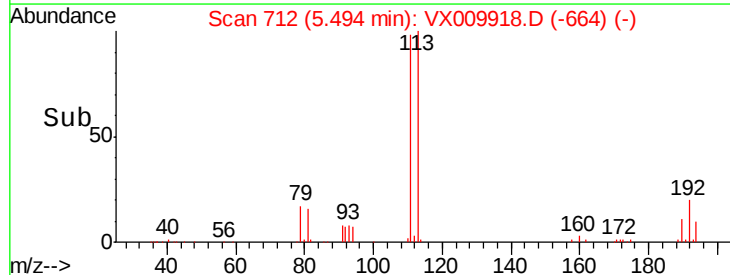
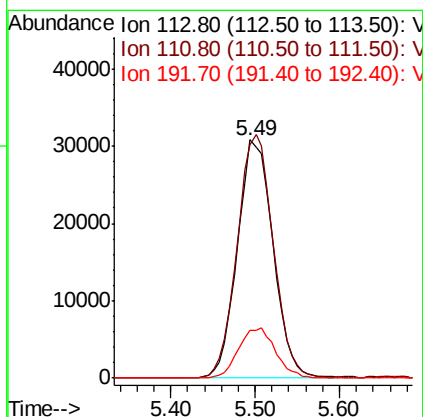
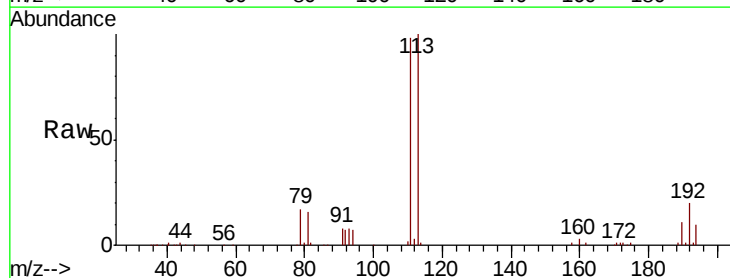
Instrument :
 MSVOA_X
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 LF012MW028-190522DL

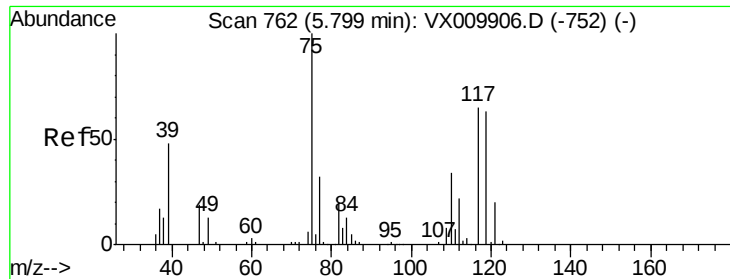
Tot Ion:114 Resp: 287853
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 47.4
 88 16.3 0.0 33.0



#35
 Dibromofluoromethane
 Concen: 48.893 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX009918.D
 Acq: 28 May 2019 16:33

Tgt Ion:113 Resp: 88483
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.2 123.2
 192 21.7 17.1 25.7

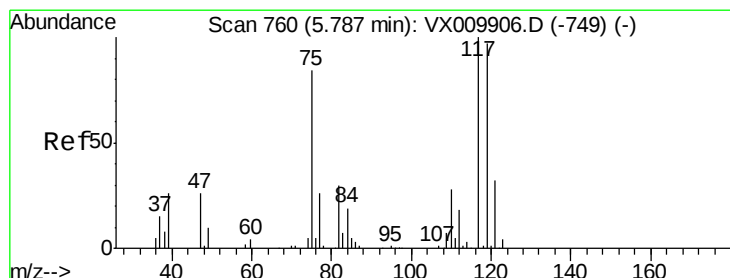
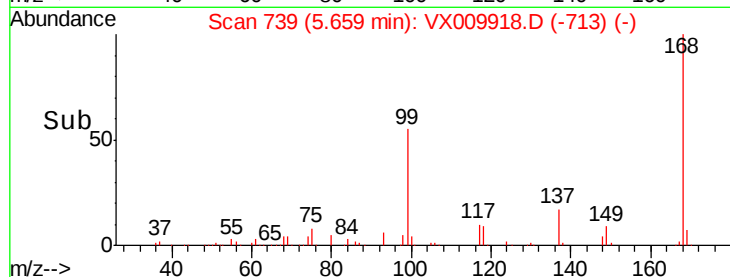
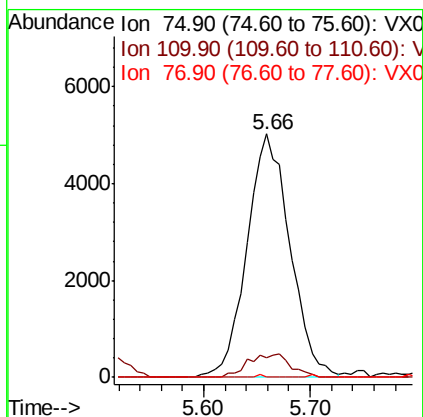
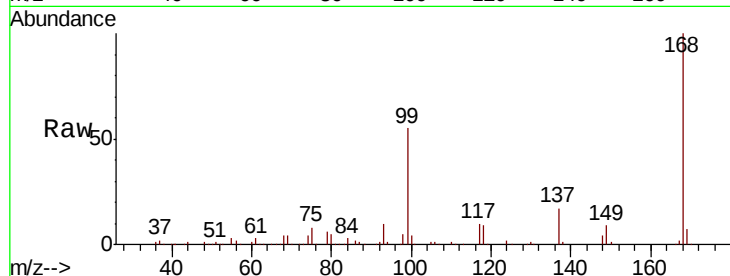




#36
 1,1-Dichloropropene
 Concen: 4.861 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009918.D
 Acq: 28 May 2019 16:33

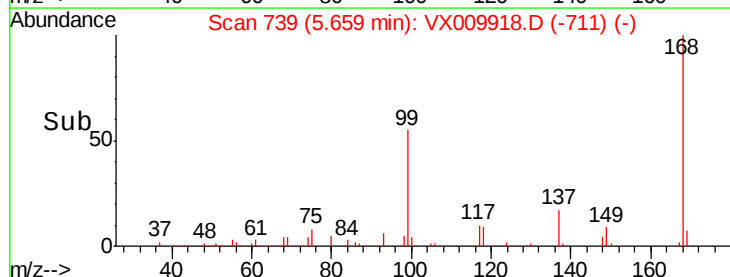
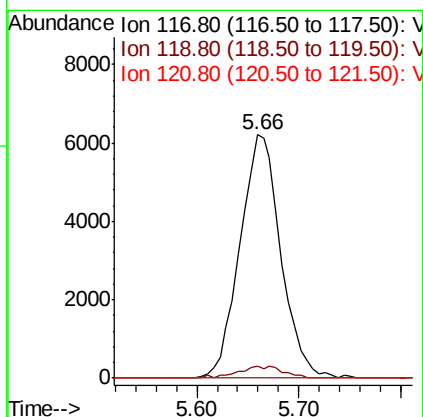
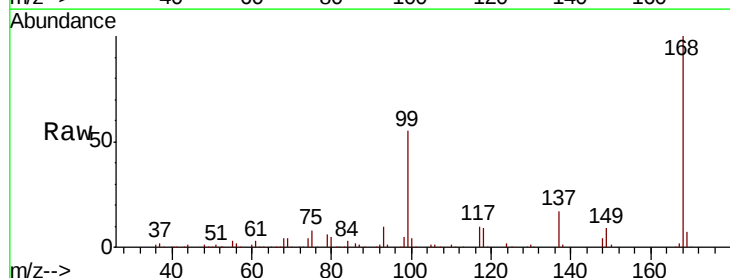
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW028-190522DL

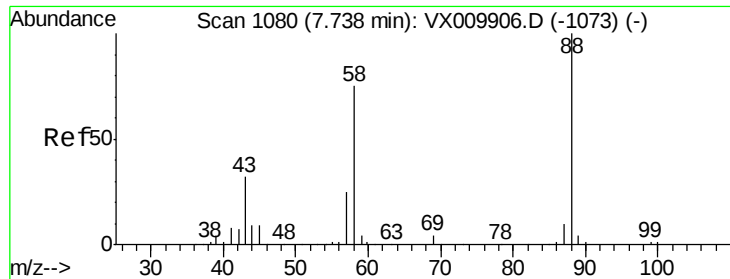
Tot Ion: 75 Resp: 14197
 Ion Ratio Lower Upper
 75 100
 110 9.7 16.7 50.1#
 77 0.2 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.829 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009918.D
 Acq: 28 May 2019 16:33

Tgt Ion: 117 Resp: 17234
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.3 115.9#
 121 0.0 25.4 38.0#

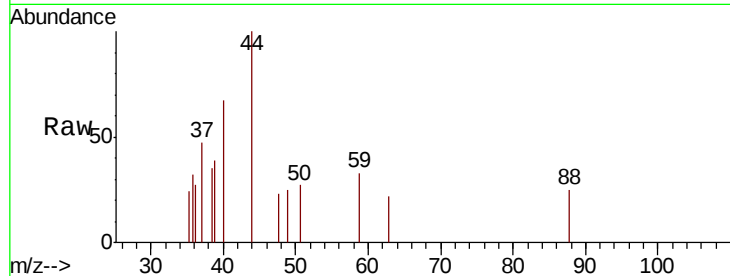




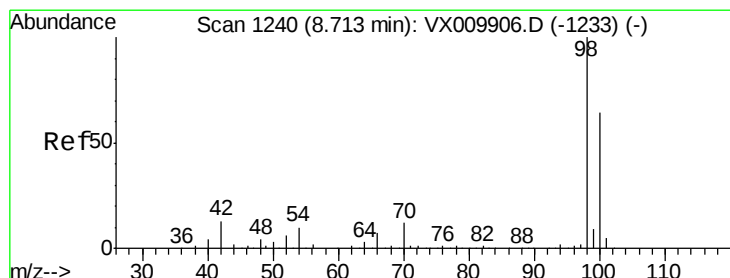
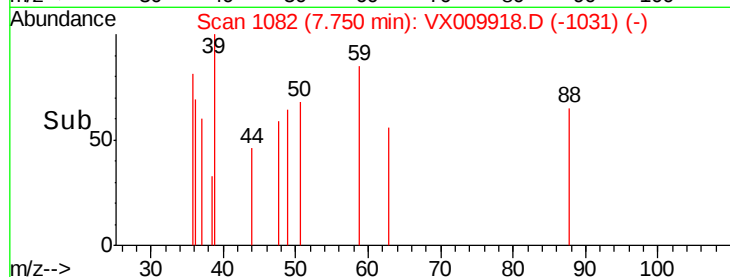
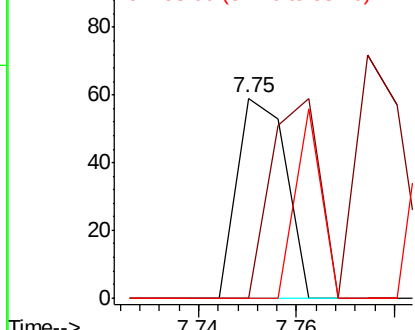
#49
1,4-Dioxane
Concen: 0.678 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX009918.D
Acq: 28 May 2019 16:33

Instrument :
MSVOA_X
ClientSampleId :
LF012MW028-190522DL

Tot Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 97.6 30.2 45.4#
58 48.8 64.0 96.0#

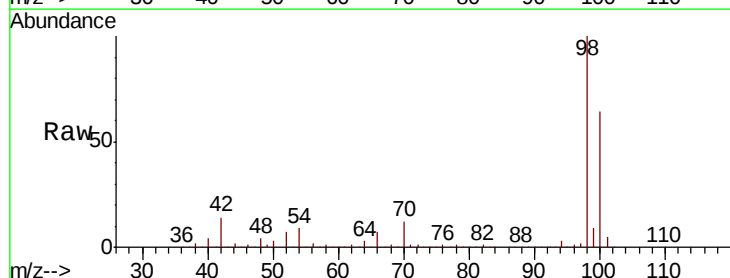


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

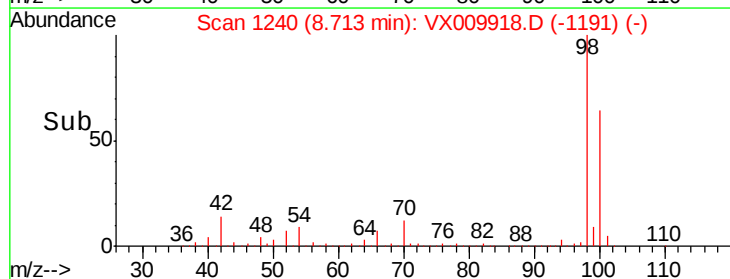
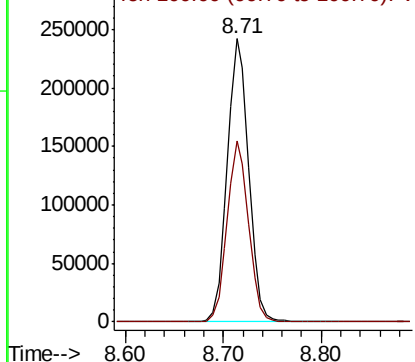


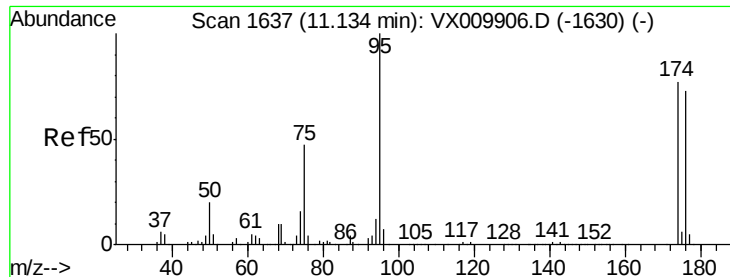
#50
Toluene-d8
Concen: 50.045 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009918.D
Acq: 28 May 2019 16:33

Tgt Ion: 98 Resp: 367778
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.968 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

Instrument :

MSVOA_X

ClientSampleId :

LF012MW028-190522DL

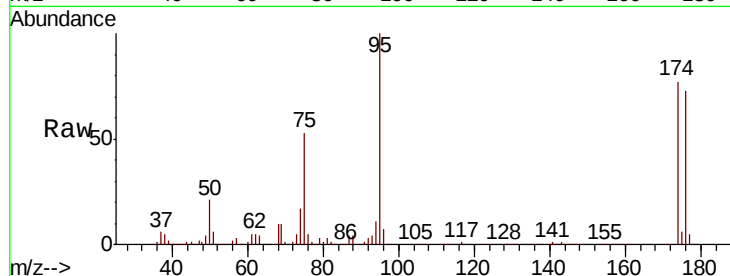
Tot Ion: 95 Resp: 123977

Ion Ratio Lower Upper

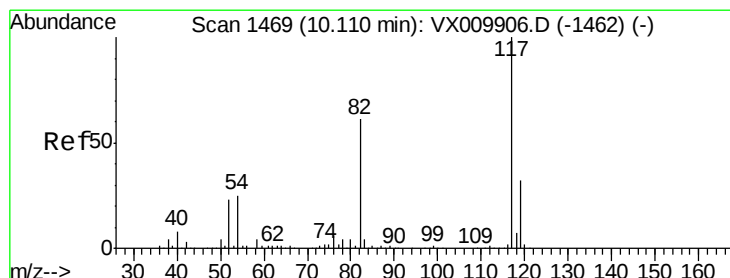
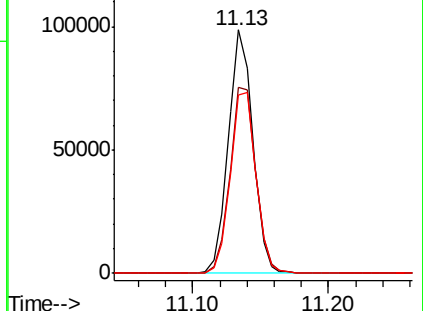
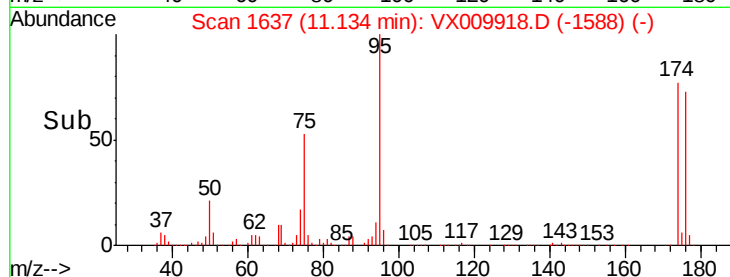
95 100

174 80.3 0.0 160.4

176 77.8 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX009918.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

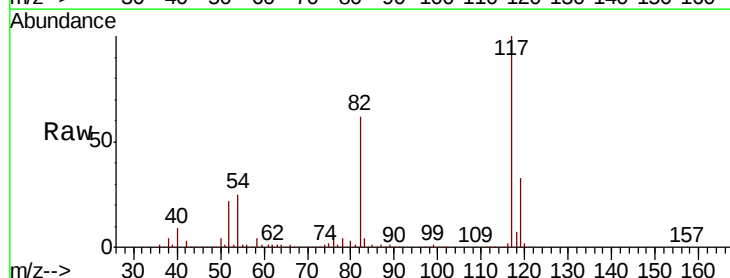
Tgt Ion: 117 Resp: 259307

Ion Ratio Lower Upper

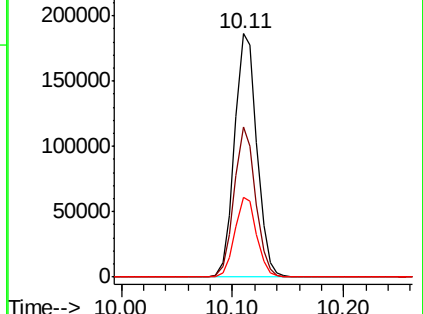
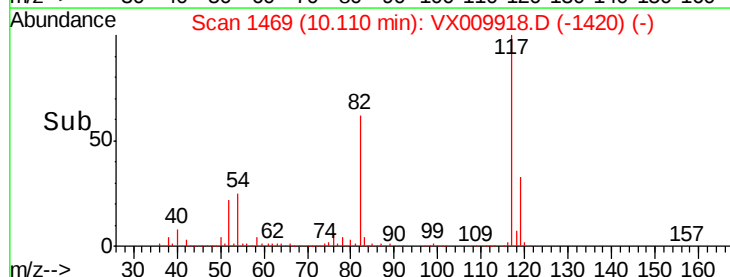
117 100

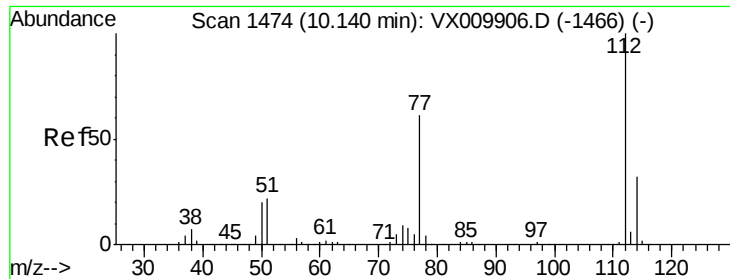
82 61.8 49.2 73.8

119 32.5 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VX009918.D (-1420) (-)

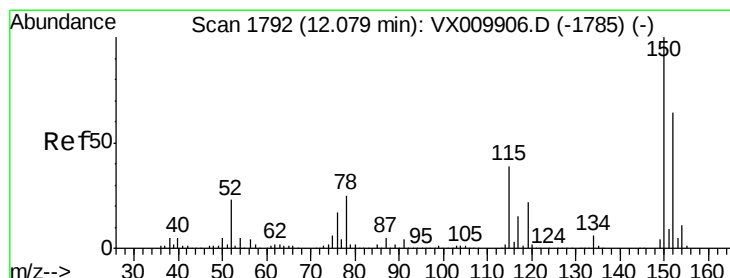
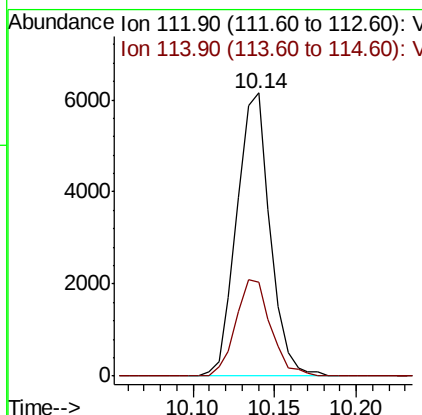
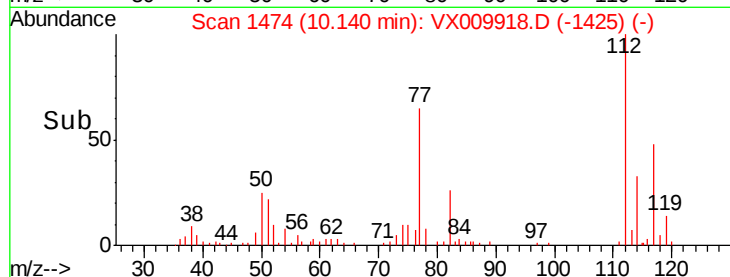
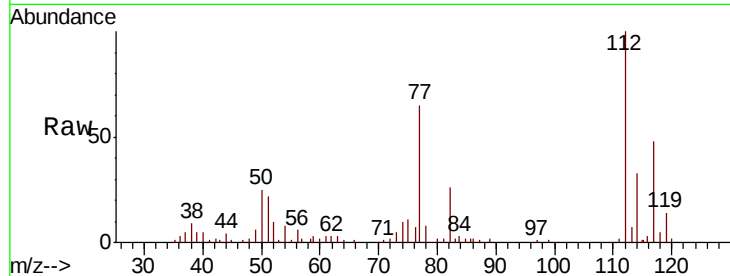




#65
Chlorobenzene
Concen: 1.622 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX009918.D
Acq: 28 May 2019 16:33

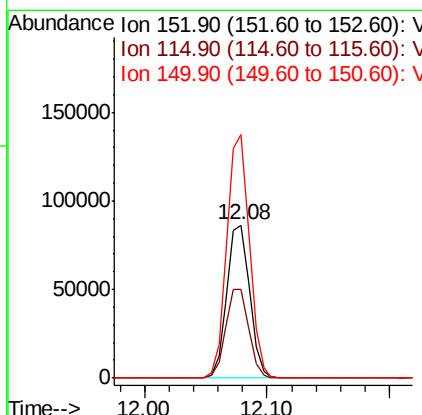
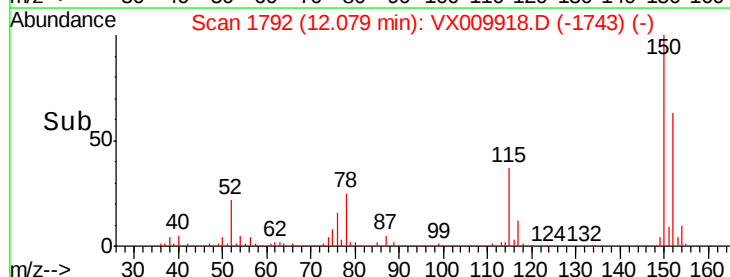
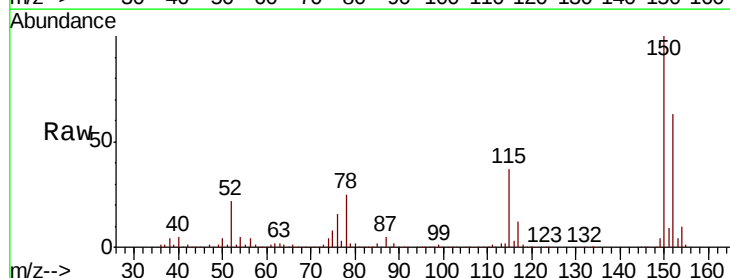
Instrument :
MSVOA_X
ClientSampleId :
LF012MW028-190522DL

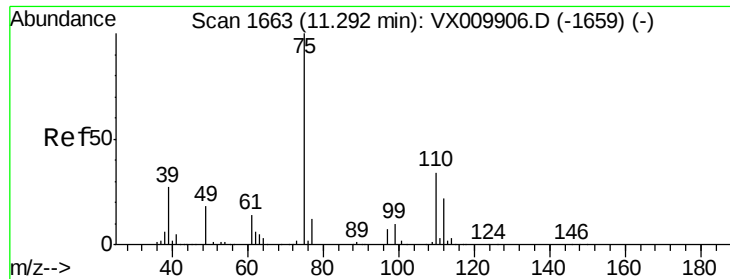
Tot Ion:112 Resp: 8806
Ion Ratio Lower Upper
112 100
114 33.1 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009918.D
Acq: 28 May 2019 16:33

Tgt Ion:152 Resp: 111672
Ion Ratio Lower Upper
152 100
115 58.6 41.4 124.2
150 156.4 0.0 345.2





#76

1,2,3-Trichloropropane

Concen: 23.907 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

Instrument :

MSVOA_X

ClientSampleId :

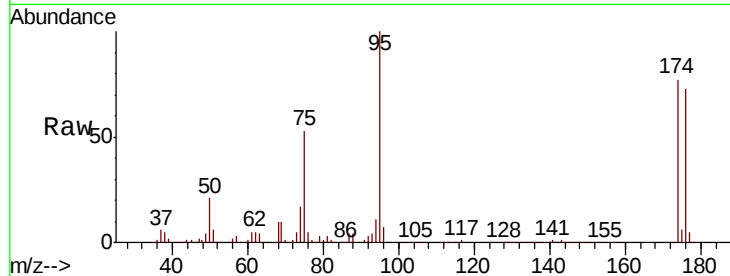
LF012MW028-190522DL

Tot Ion: 75 Resp: 63843

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

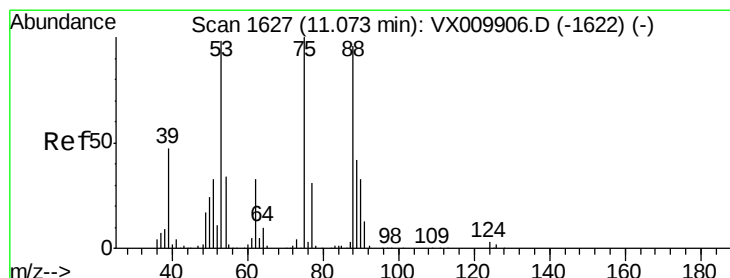
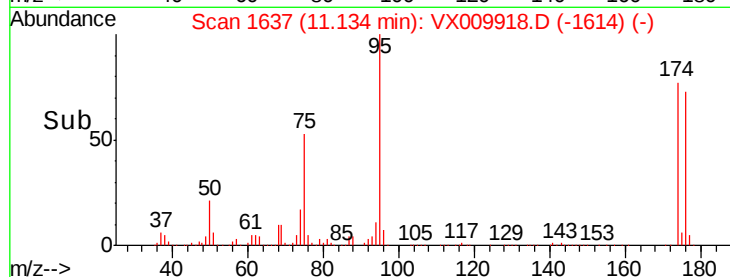
30000

20000

10000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.151 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009918.D

Acq: 28 May 2019 16:33

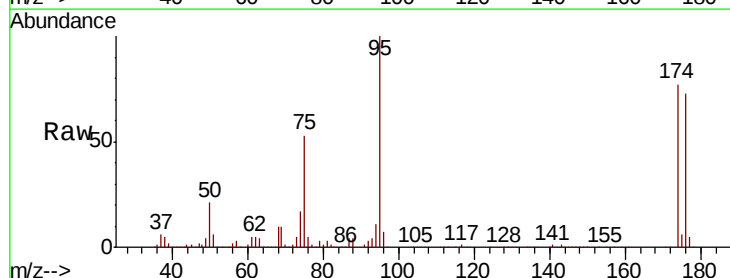
Tgt Ion: 75 Resp: 63843

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#



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

60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20

