

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005220.D
 Acq On : 10 Oct 2018 21:21
 Operator : JC/MD
 Sample : J5317-08 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-122D3-IMP-20181004

Quant Time: Oct 11 06:08:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

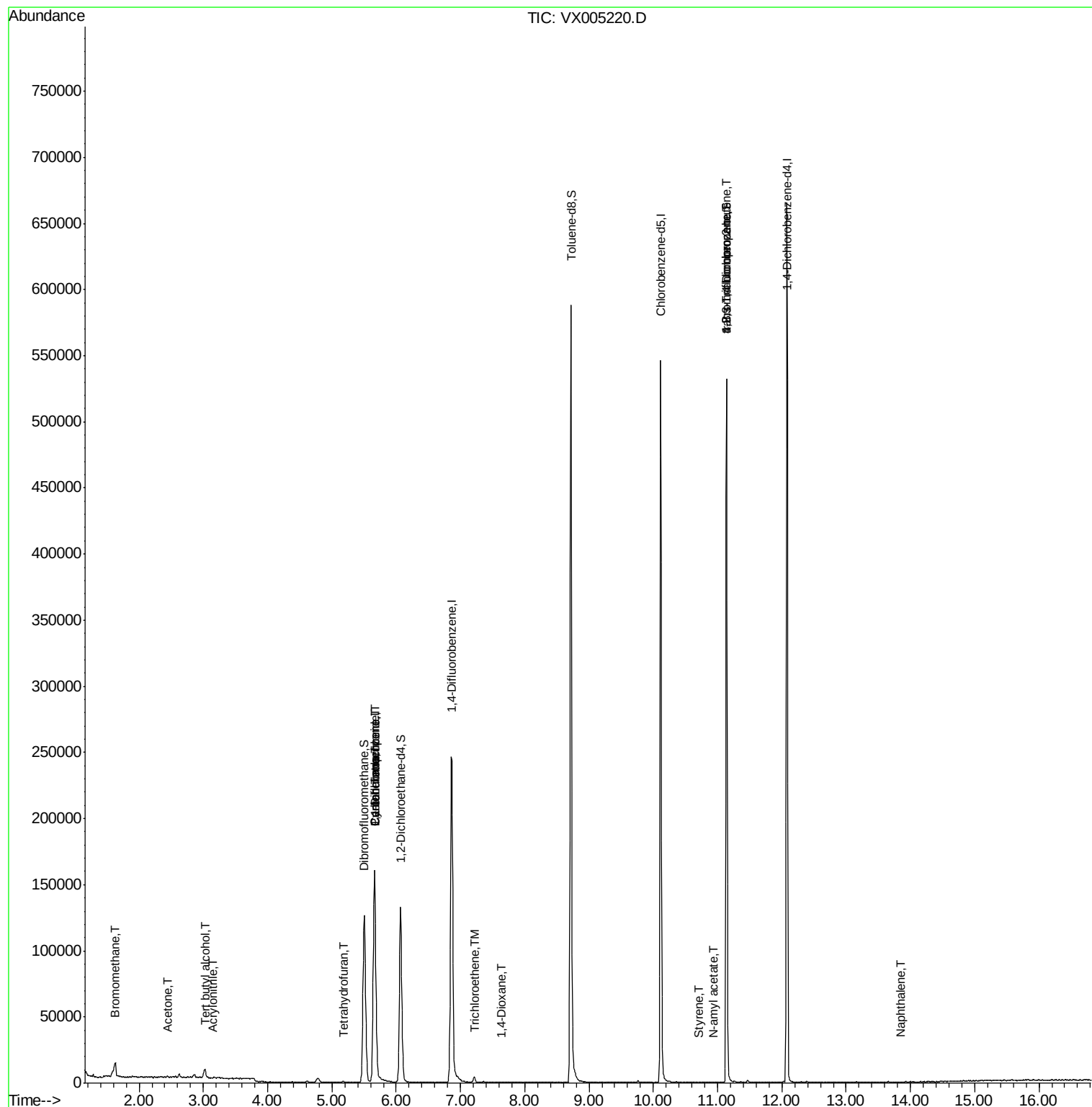
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	164471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	258625	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	255990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139510	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	127893	54.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.86%	
35) Dibromofluoromethane	5.50	113	107750	49.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.32%	
50) Toluene-d8	8.72	98	374415	51.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.76%	
62) 4-Bromofluorobenzene	11.14	95	130738	49.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.60%	
Target Compounds				Qvalue		
5) Bromomethane	1.64	94	526	0.348	ug/l #	57
6) Chloroethane	1.69	64	75	Below Cal	#	13
11) Tert butyl alcohol	3.02	59	4282	6.518	ug/l #	73
15) Acrylonitrile	3.15	53	302	0.209	ug/l #	64
16) Acetone	2.45	43	831	0.606	ug/l #	88
20) Methylene Chloride	2.85	84	866	Below Cal	#	92
29) Tetrahydrofuran	5.17	42	593	0.472	ug/l #	62
31) Cyclohexane	5.66	56	3191	1.067	ug/l #	19
36) 1,1-Dichloropropene	5.66	75	11252	3.763	ug/l #	46
38) Carbon Tetrachloride	5.67	117	14742	4.690	ug/l #	18
44) Trichloroethene	7.21	130	1629	0.708	ug/l	90
49) 1,4-Dioxane	7.63	88	22	0.341	ug/l #	5
70) Styrene	10.72	104	83	2.152	ug/l #	41
74) N-amyl acetate	10.93	43	65	1.761	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	65164	20.840	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	121	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	65164	56.566	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	136	Below Cal	#	31
95) Naphthalene	13.83	128	250	0.741	ug/l #	69

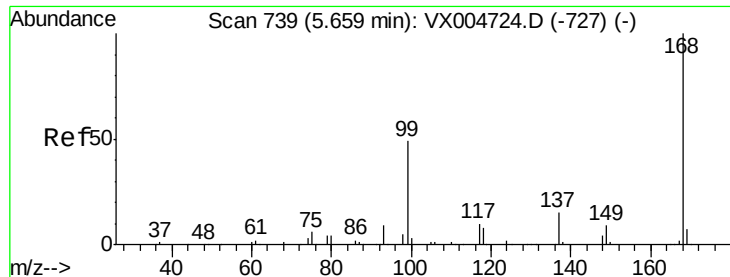
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

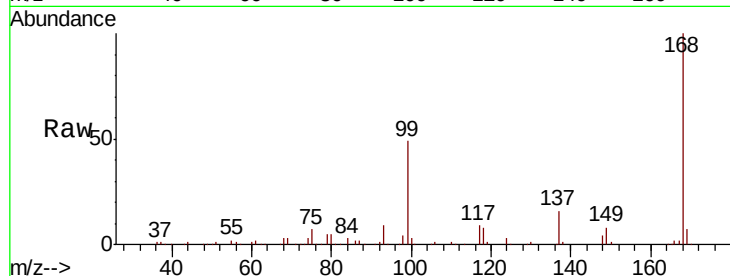
RE-122D3-IMP-20181004

Tot Ion:168 Resp: 164471

Ion Ratio Lower Upper

168 100

99 49.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): VX004724.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX005220.D (-690) (-)

5.67

60000

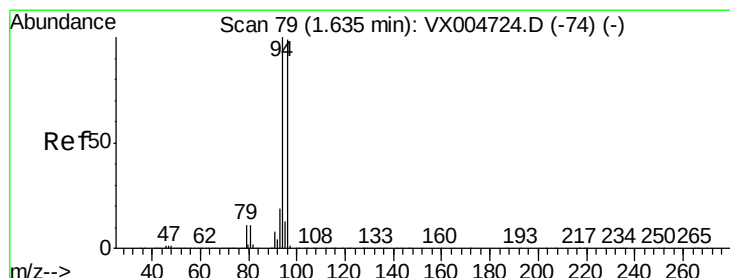
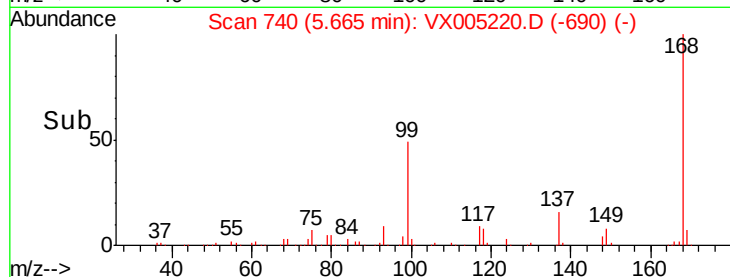
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.348 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005220.D

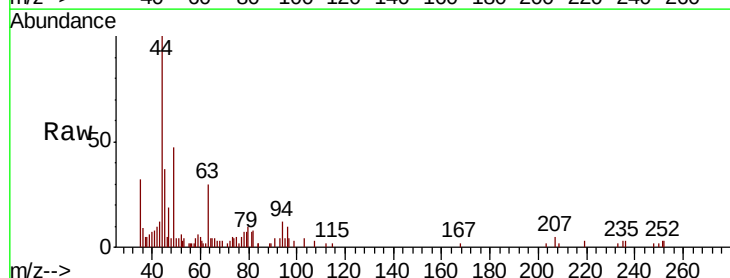
Acq: 10 Oct 2018 21:21

Tgt Ion: 94 Resp: 526

Ion Ratio Lower Upper

94 100

96 56.5 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX004724.D (-74) (-)

Ion 95.90 (95.60 to 96.60): VX005220.D (-30) (-)

1.64

400

300

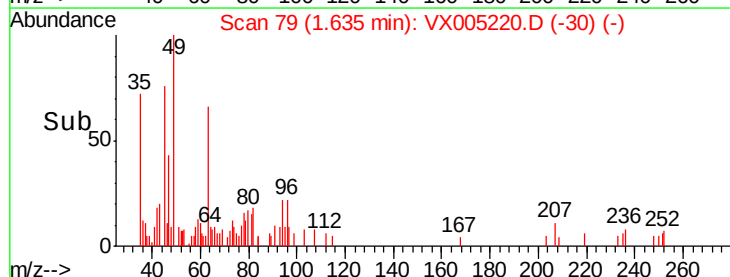
200

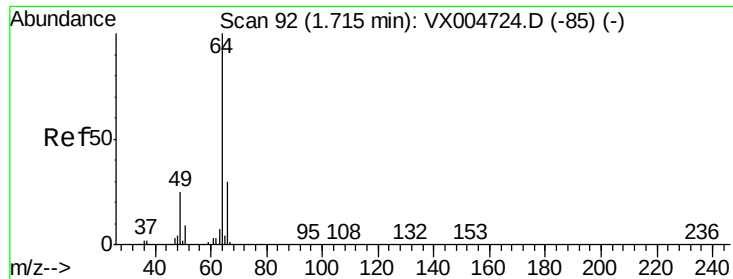
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

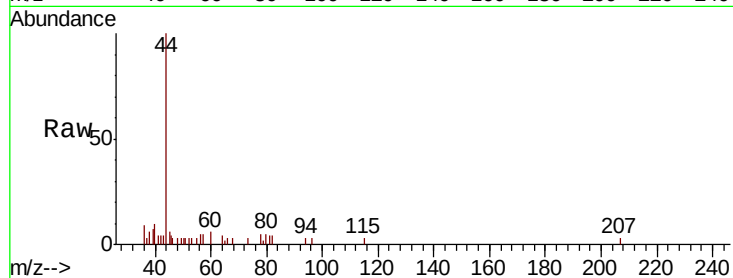
RE-122D3-IMP-20181004

Tot Ion: 64 Resp: 75

Ion Ratio Lower Upper

64 100

66 76.6 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

120

100

80

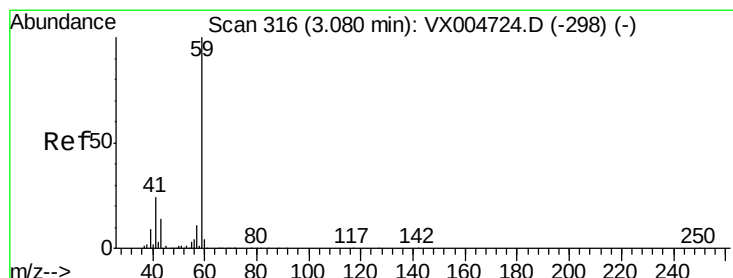
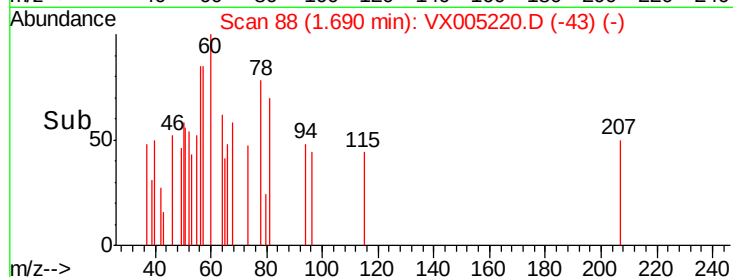
60

40

20

0

Time--> 1.66 1.68 1.70 1.72



#11

Tert butyl alcohol

Concen: 6.518 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005220.D

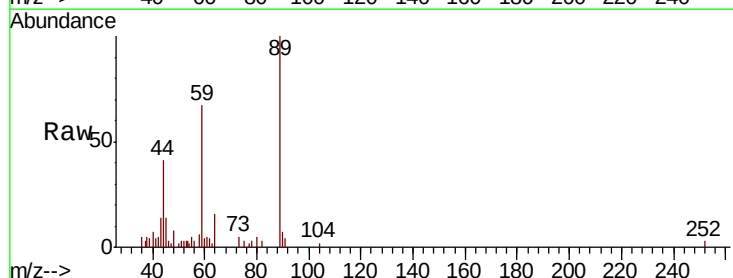
Acq: 10 Oct 2018 21:21

Tgt Ion: 59 Resp: 4282

Ion Ratio Lower Upper

59 100

57 0.6 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2000

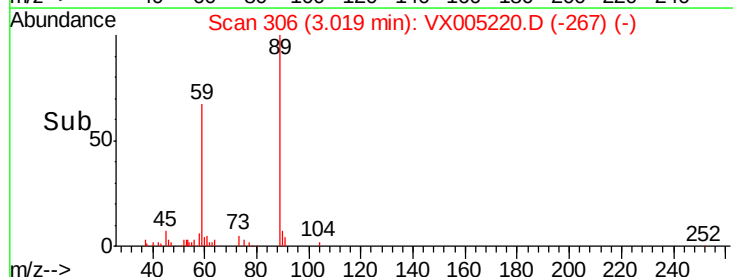
1500

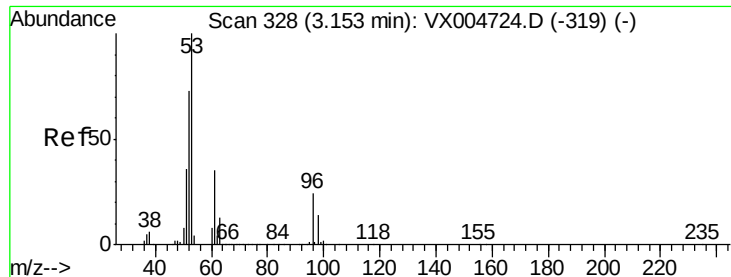
1000

500

0

Time--> 2.95 3.00 3.05 3.10





#15

Acrylonitrile

Concen: 0.209 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

RE-122D3-IMP-20181004

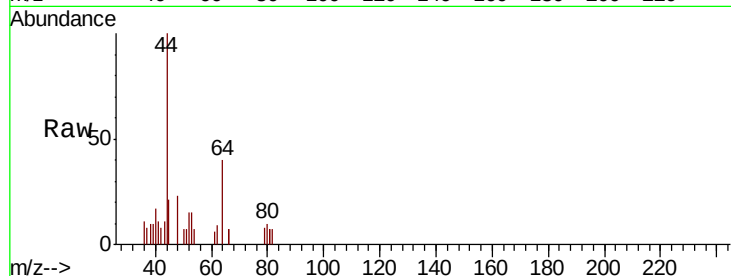
Tot Ion: 53 Resp: 302

Ion Ratio Lower Upper

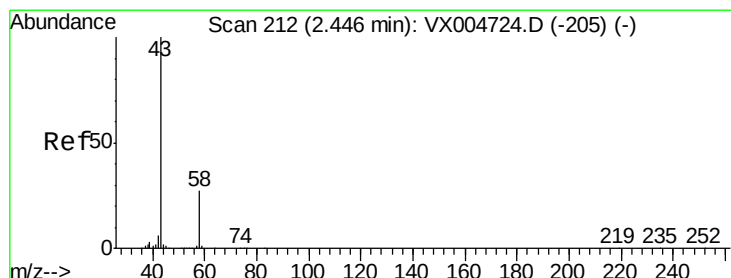
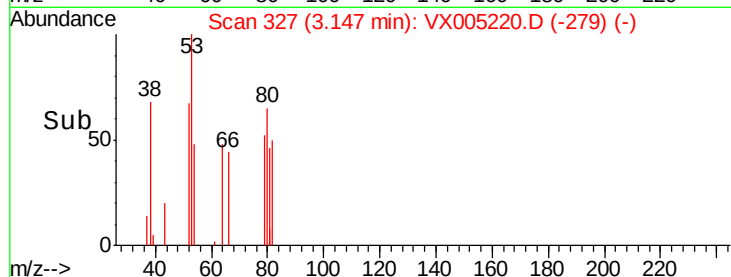
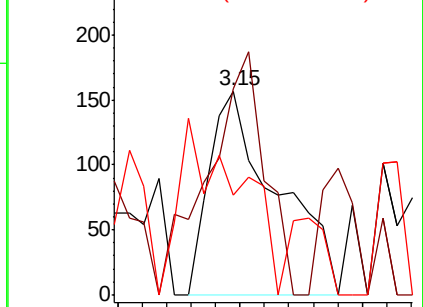
53 100

52 100.0 63.0 94.4#

51 0.0 28.6 42.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.606 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX005220.D

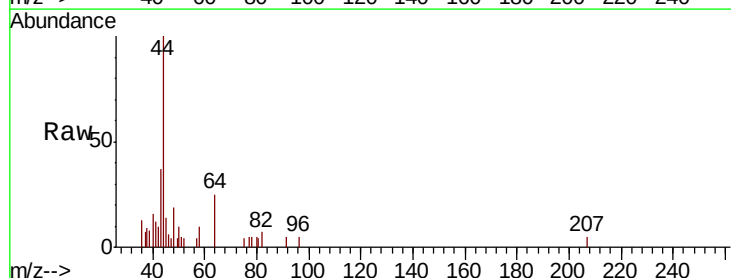
Acq: 10 Oct 2018 21:21

Tgt Ion: 43 Resp: 831

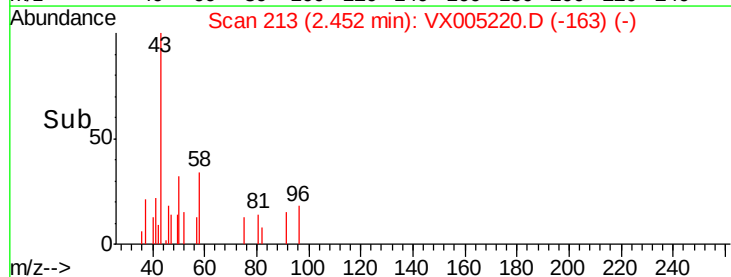
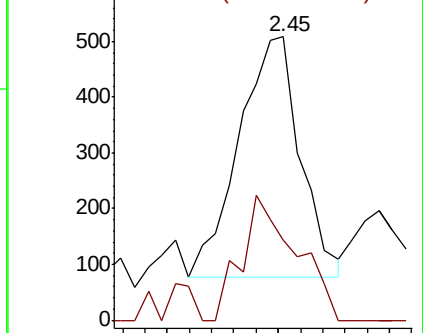
Ion Ratio Lower Upper

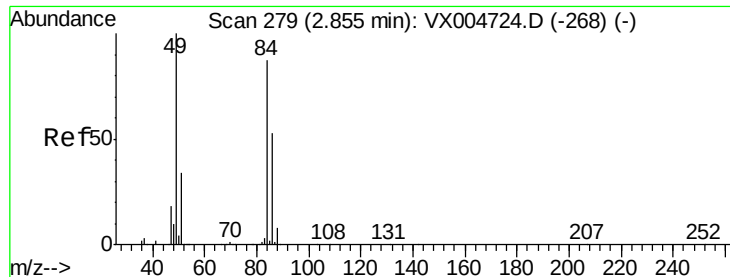
43 100

58 33.3 21.8 32.6#



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

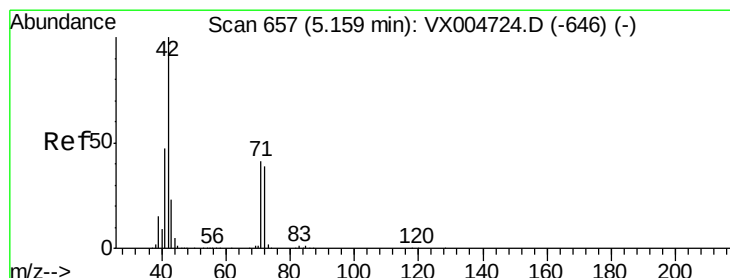
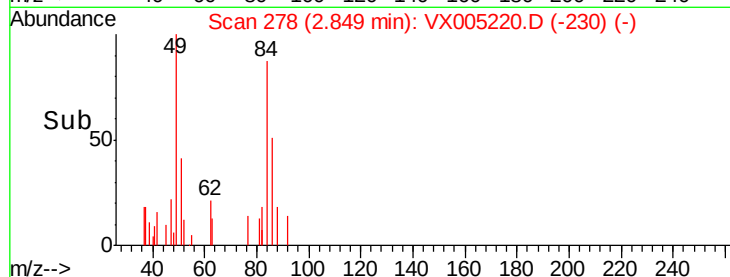
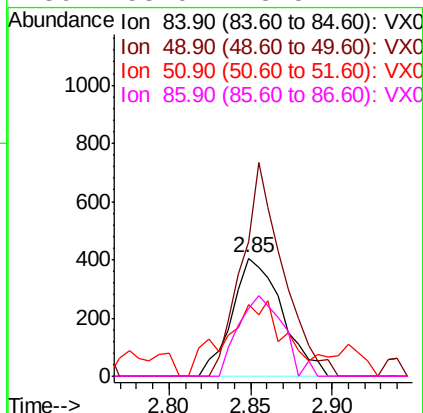
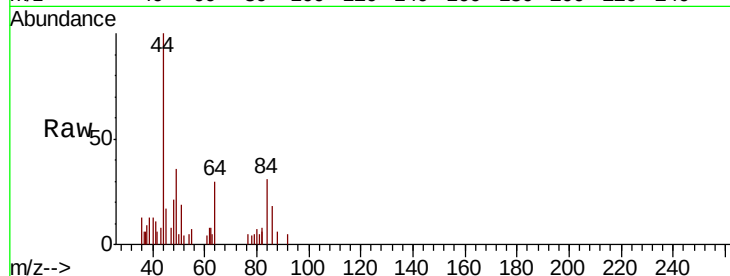




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX005220.D
Acq: 10 Oct 2018 21:21

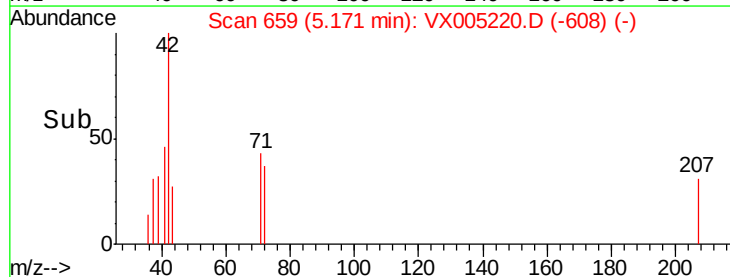
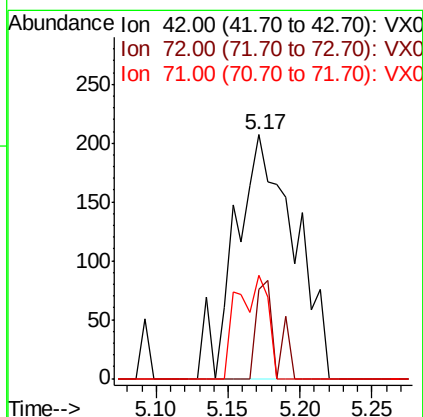
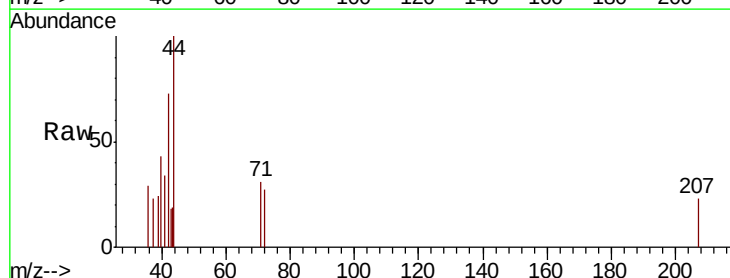
Instrument :
MSVOA_X
ClientSampleId :
RE-122D3-IMP-20181004

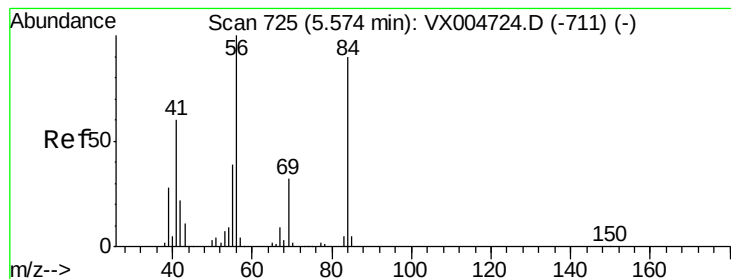
Tot Ion: 84 Resp: 866
Ion Ratio Lower Upper
84 100
49 114.3 92.3 138.5
51 60.7 31.8 47.6#
86 58.0 48.5 72.7



#29
Tetrahydrofuran
Concen: 0.472 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX005220.D
Acq: 10 Oct 2018 21:21

Tgt Ion: 42 Resp: 593
Ion Ratio Lower Upper
42 100
72 13.2 33.7 50.5#
71 22.1 32.2 48.4#





#31

Cyclohexane

Concen: 1.067 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

RE-122D3-IMP-20181004

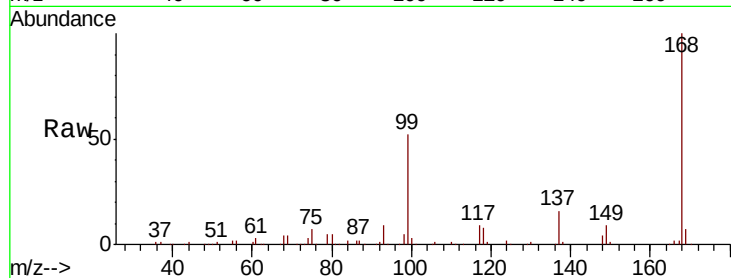
Tot Ion: 56 Resp: 3191

Ion Ratio Lower Upper

56 100

69 166.9 25.9 38.9#

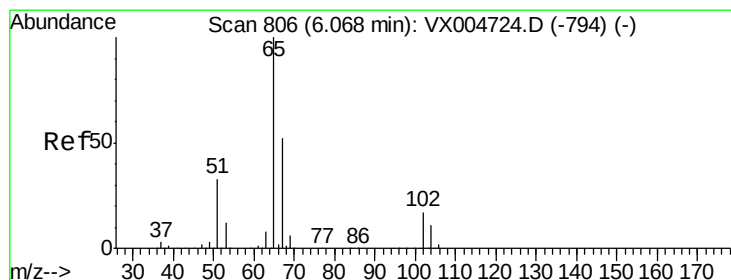
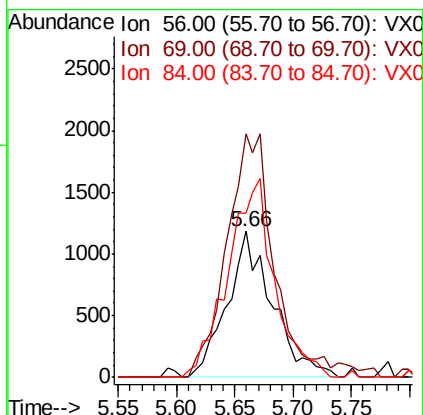
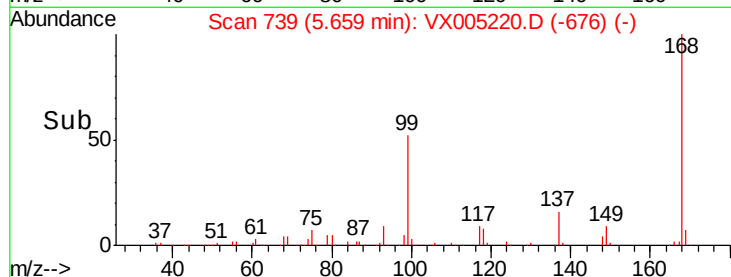
84 112.9 71.9 107.9#



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: 54.435 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005220.D

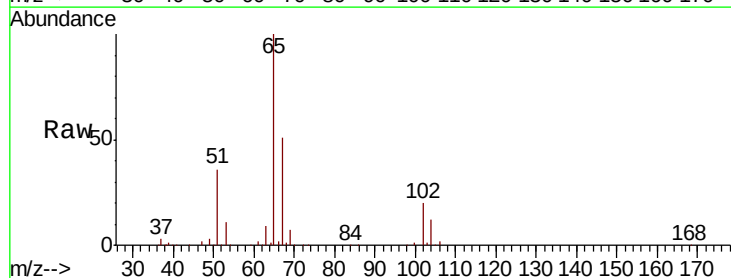
Acq: 10 Oct 2018 21:21

Tgt Ion: 65 Resp: 127893

Ion Ratio Lower Upper

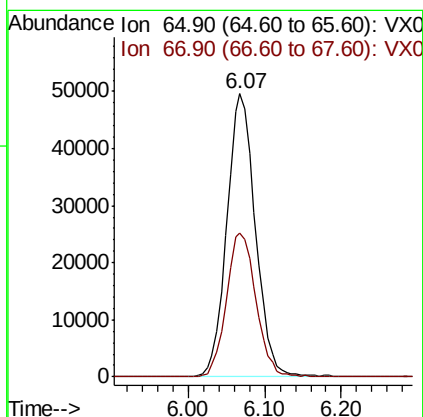
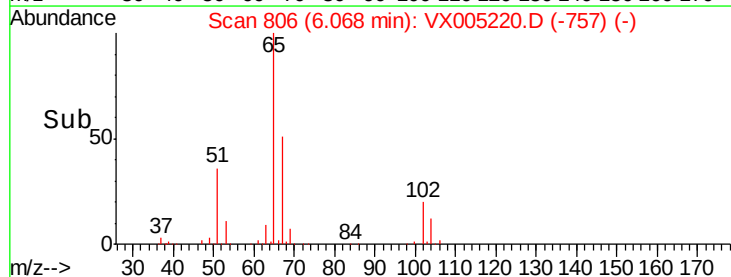
65 100

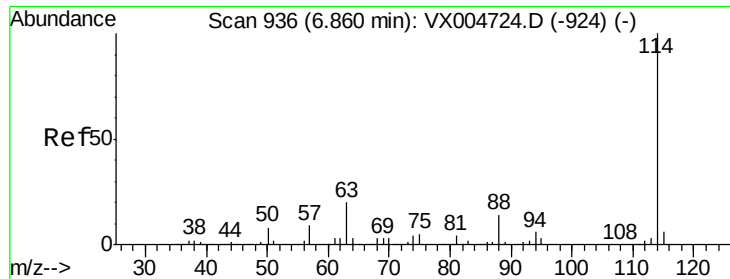
67 52.6 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

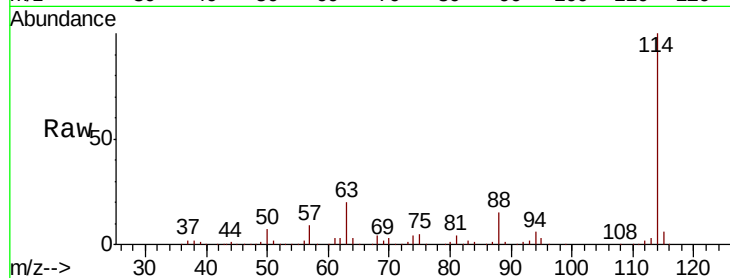




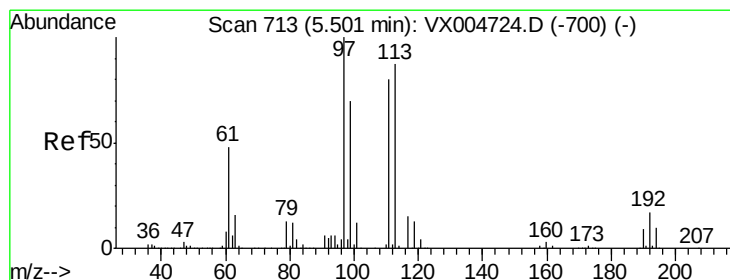
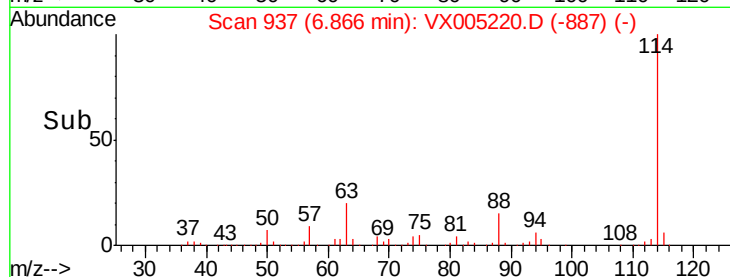
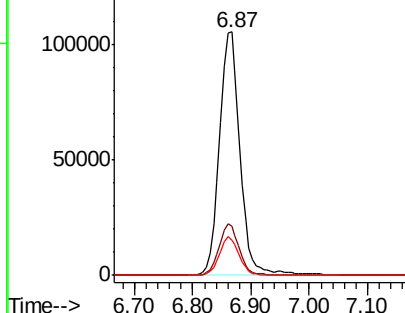
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005220.D
 Acq: 10 Oct 2018 21:21

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-122D3-IMP-20181004

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	39.8
88	14.6	0.0	27.0

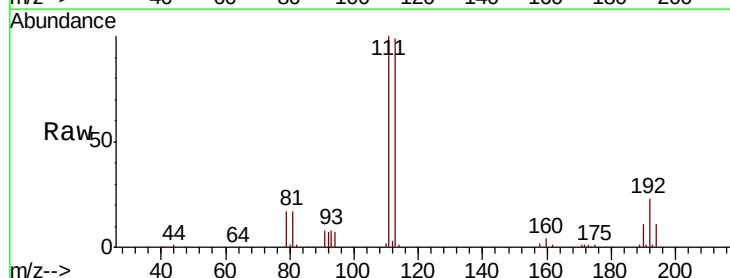


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

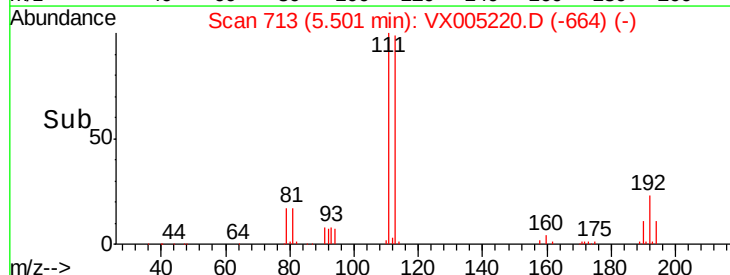
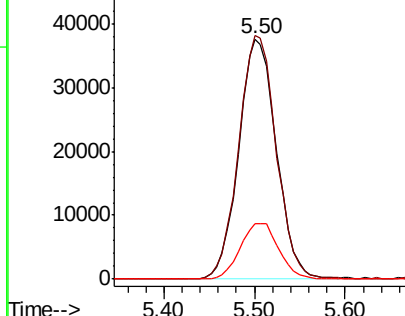


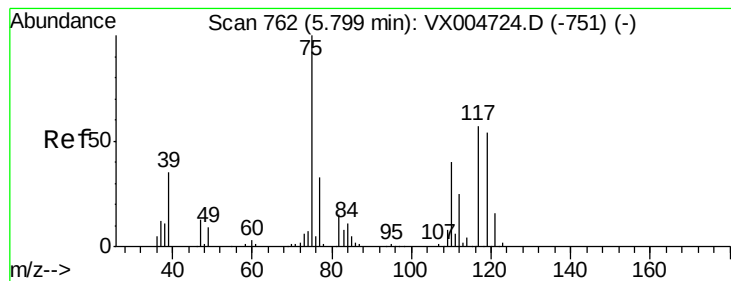
#35
 Dibromofluoromethane
 Concen: 49.159 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005220.D
 Acq: 10 Oct 2018 21:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	77.0	115.4
192	23.7	17.0	25.6



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: 3.763 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

RE-122D3-IMP-20181004

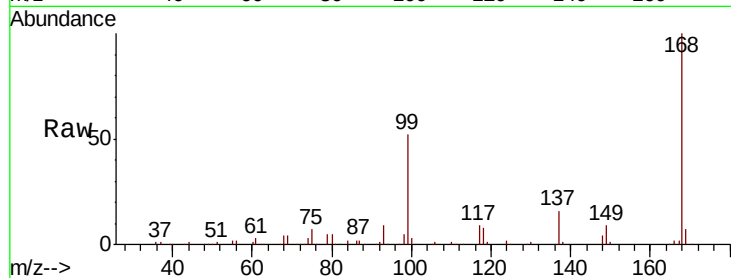
Tot Ion: 75 Resp: 11252

Ion Ratio Lower Upper

75 100

110 9.6 20.0 59.9#

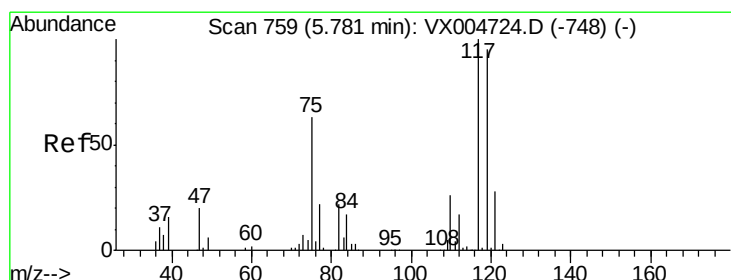
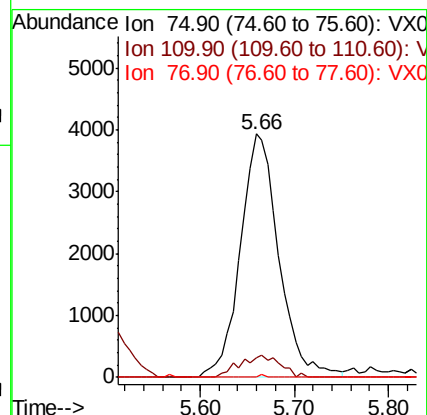
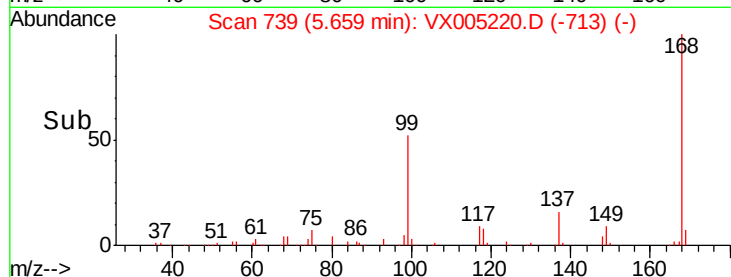
77 0.2 27.1 40.7#



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: 4.690 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

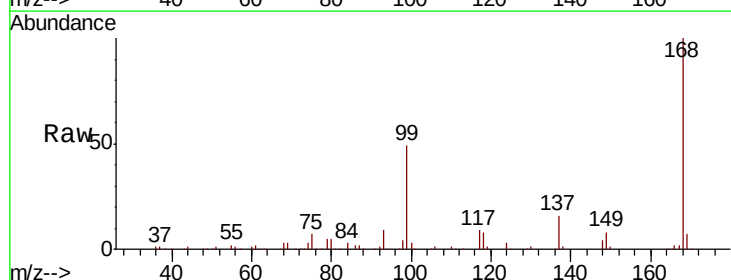
Tgt Ion: 117 Resp: 14742

Ion Ratio Lower Upper

117 100

119 6.9 75.2 112.8#

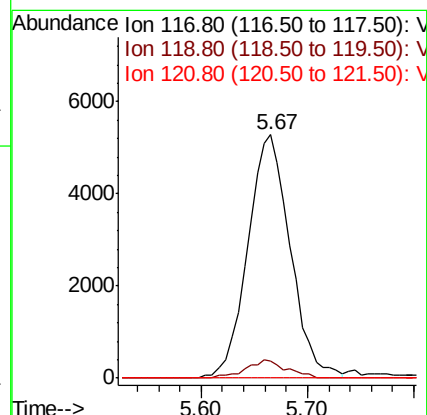
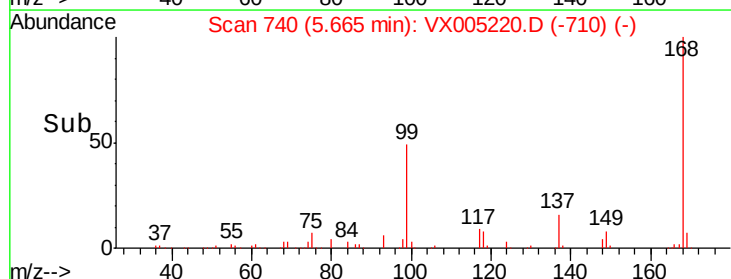
121 0.0 22.5 33.7#

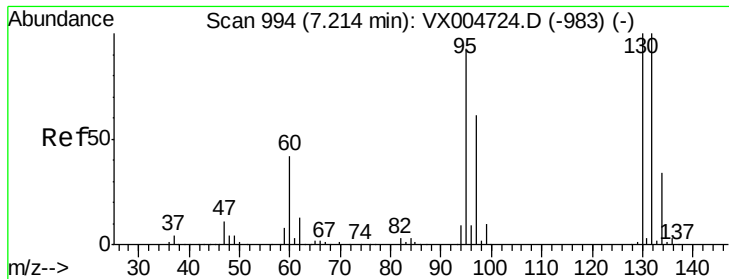


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.708 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

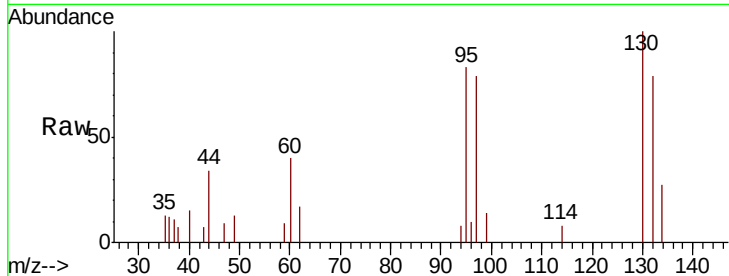
RE-122D3-IMP-20181004

Tot Ion:130 Resp: 1629

Ion Ratio Lower Upper

130 100

95 83.4 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

800

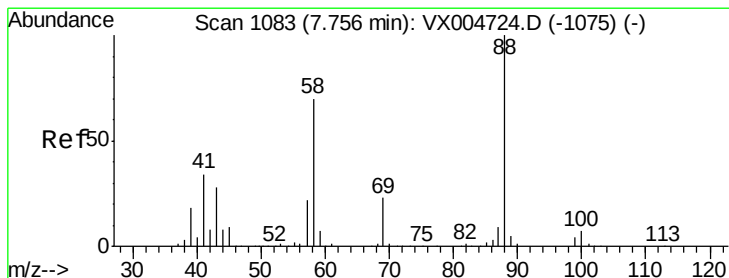
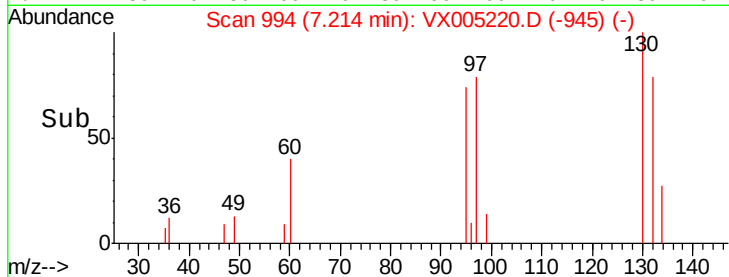
600

400

200

0

Time-->



#49

1,4-Dioxane

Concen: 0.341 ug/l

RT: 7.63 min Scan# 1063

Delta R.T. -0.12 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

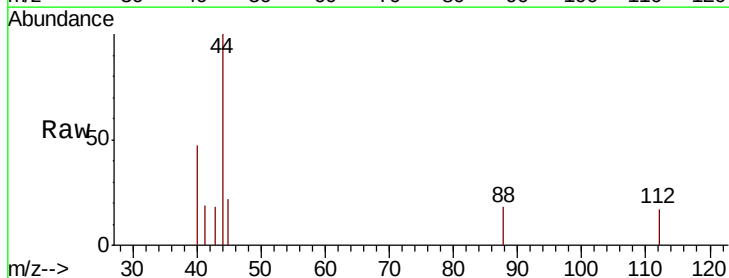
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 95.5 25.1 37.7#

58 0.0 56.2 84.2#



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

80

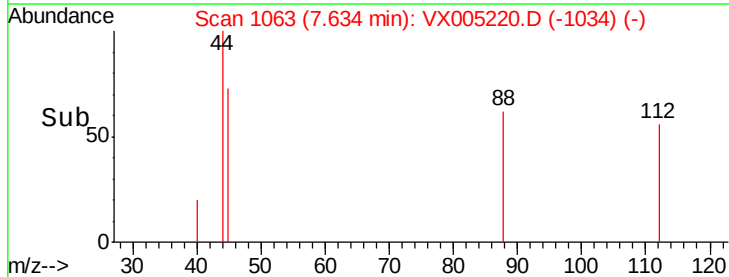
60

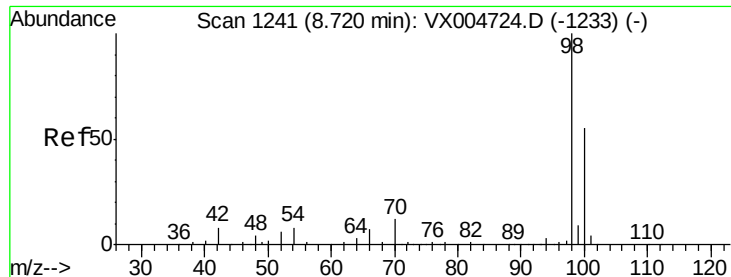
40

20

0

Time-->

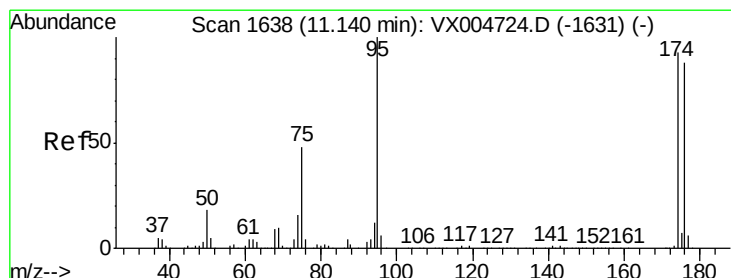
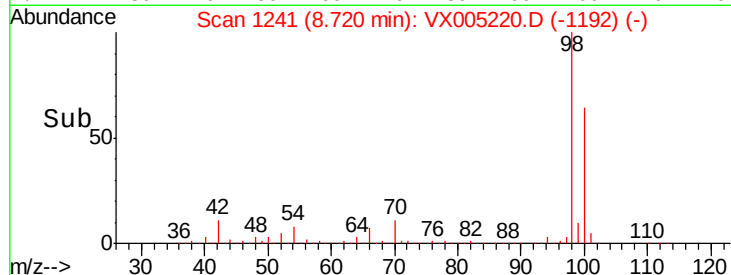
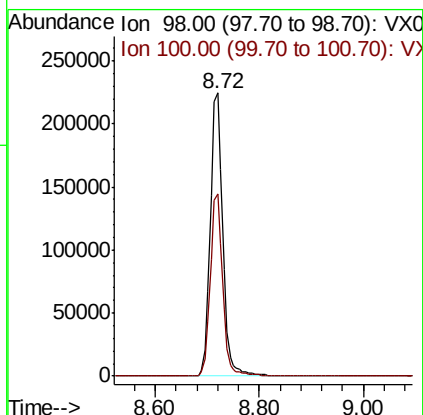
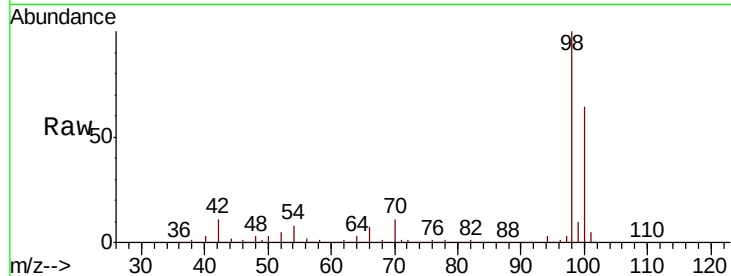




#50
Toluene-d8
Concen: 51.382 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX005220.D
Acq: 10 Oct 2018 21:21

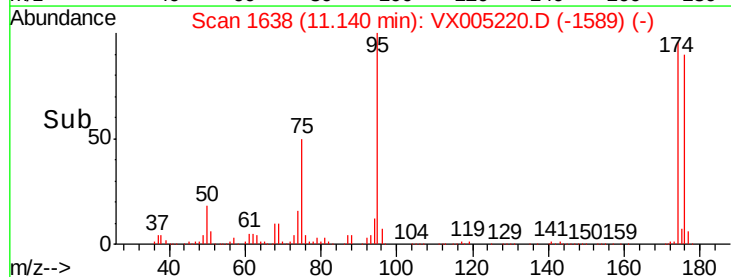
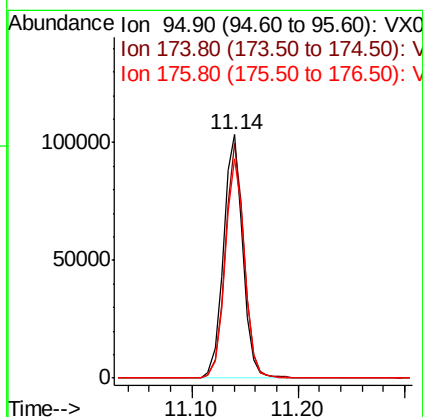
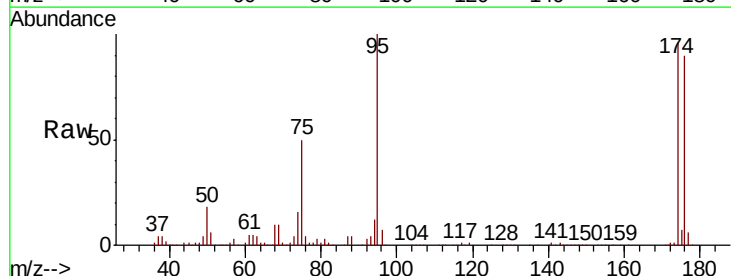
Instrument :
MSVOA_X
ClientSampleId :
RE-122D3-IMP-20181004

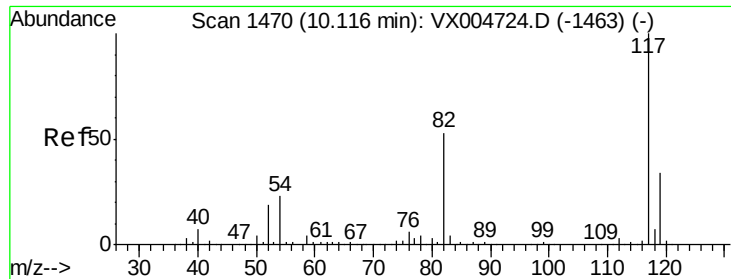
Tot Ion: 98 Resp: 374415
Ion Ratio Lower Upper
98 100
100 63.5 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 49.802 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005220.D
Acq: 10 Oct 2018 21:21

Tgt Ion: 95 Resp: 130738
Ion Ratio Lower Upper
95 100
174 94.9 0.0 185.0
176 90.9 0.0 180.2

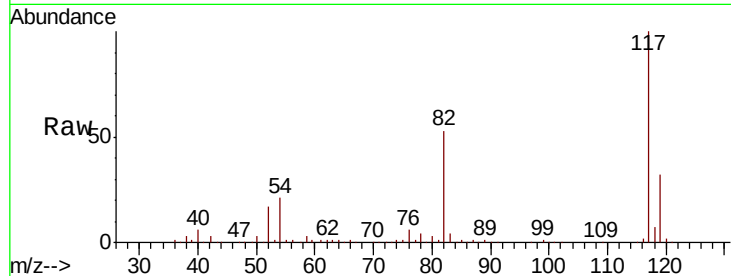




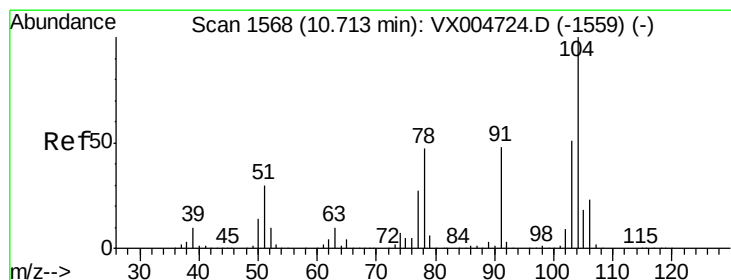
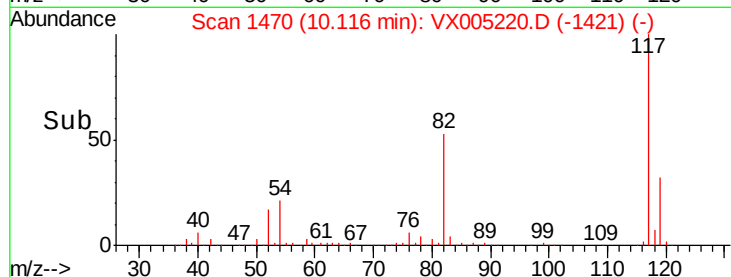
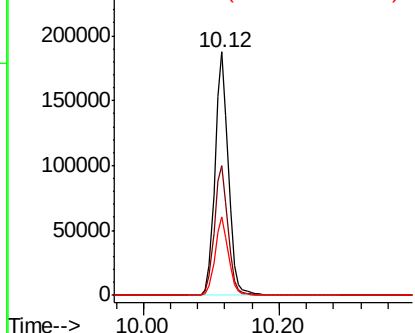
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005220.D
Acq: 10 Oct 2018 21:21

Instrument :
MSVOA_X
ClientSampleId :
RE-122D3-IMP-20181004

Tot Ion:117 Resp: 255990
Ion Ratio Lower Upper
117 100
82 53.5 42.2 63.4
119 32.1 27.4 41.0

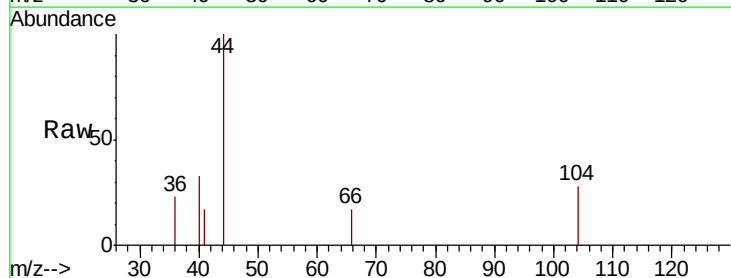


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

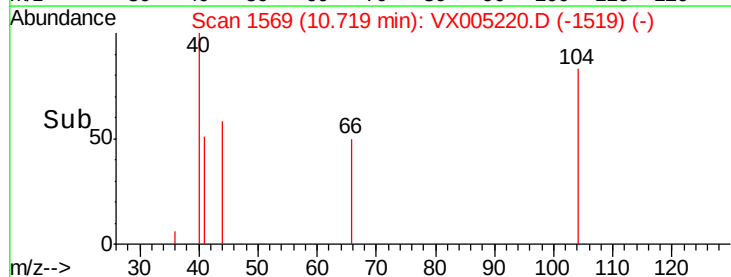
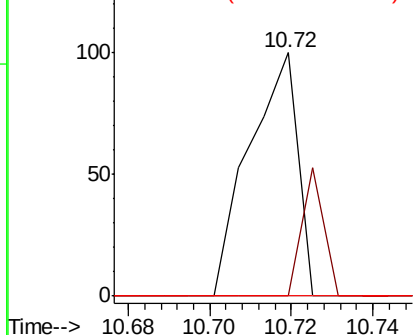


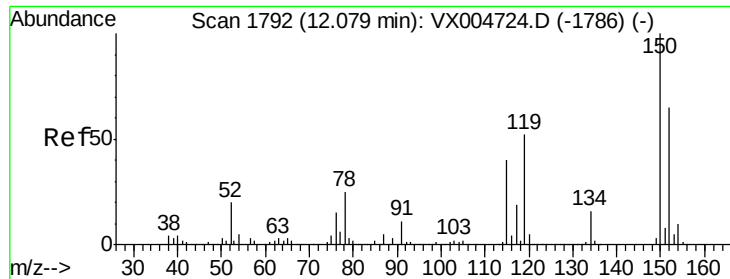
#70
Styrene
Concen: 2.152 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005220.D
Acq: 10 Oct 2018 21:21

Tgt Ion:104 Resp: 83
Ion Ratio Lower Upper
104 100
78 22.9 40.0 60.0#
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

RE-122D3-IMP-20181004

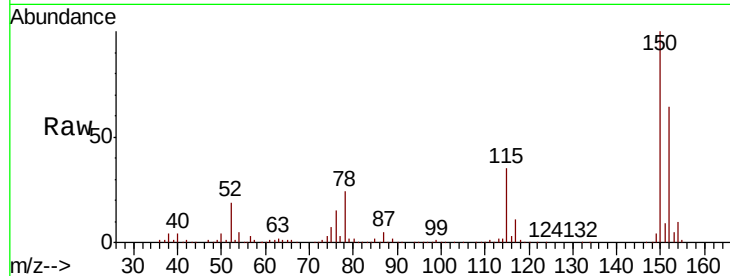
Tot Ion:152 Resp: 139510

Ion Ratio Lower Upper

152 100

115 55.3 40.2 120.6

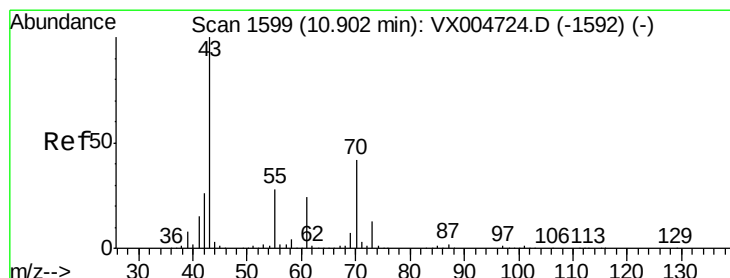
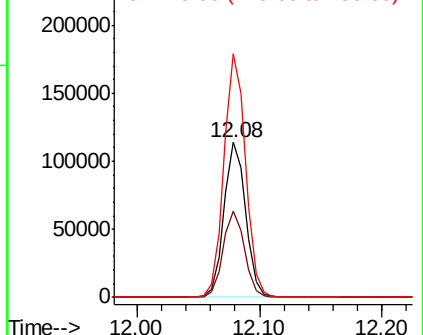
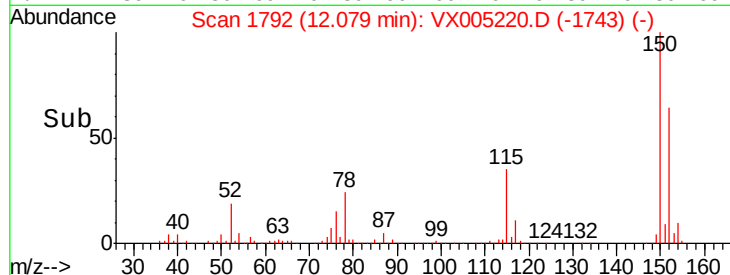
150 156.7 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.761 ug/l

RT: 10.93 min Scan# 1604

Delta R.T. 0.03 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Tgt Ion: 43 Resp: 65

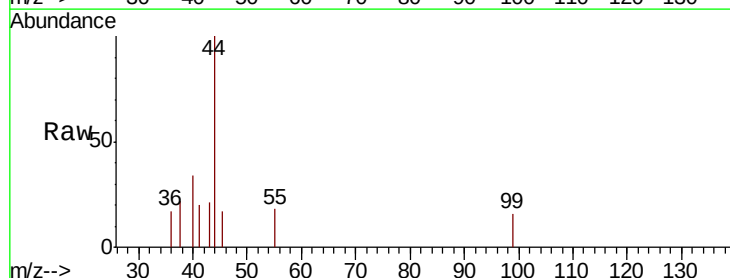
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 30.8 21.6 32.4

61 0.0 19.1 28.7#

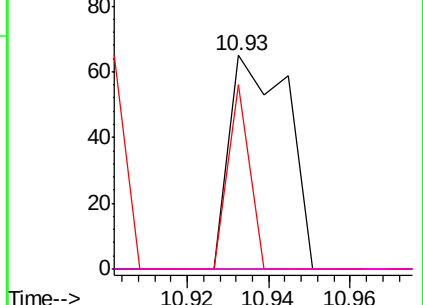
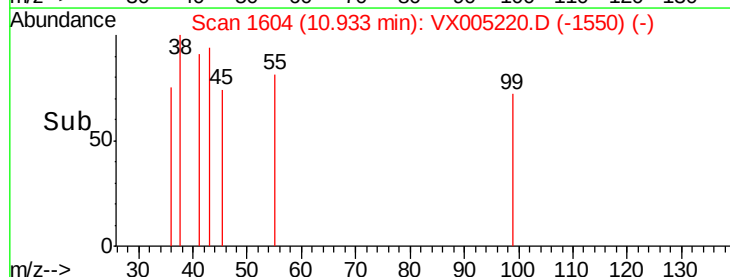


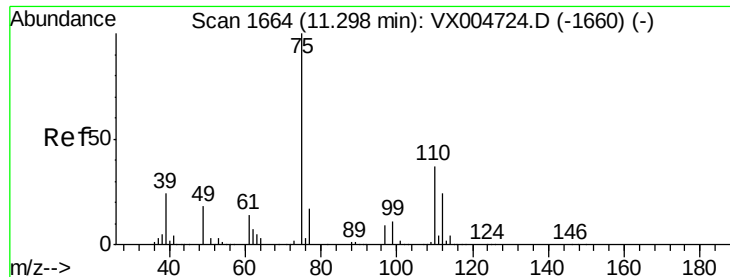
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.840 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

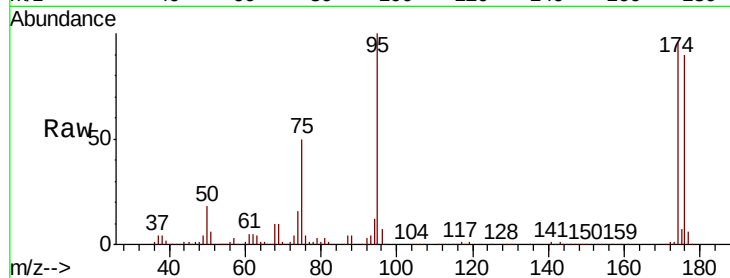
RE-122D3-IMP-20181004

Tot Ion: 75 Resp: 65164

Ion Ratio Lower Upper

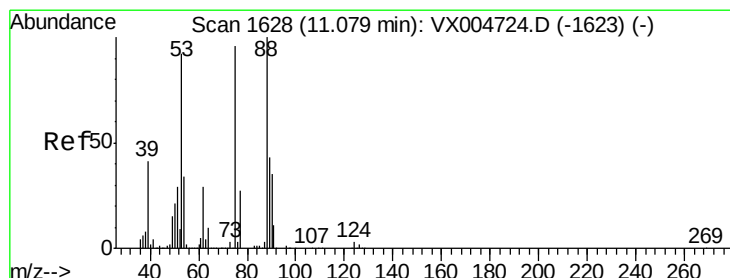
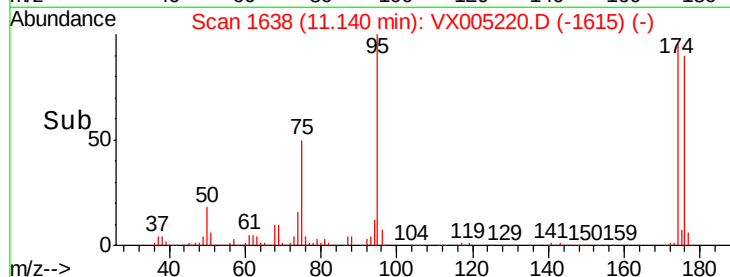
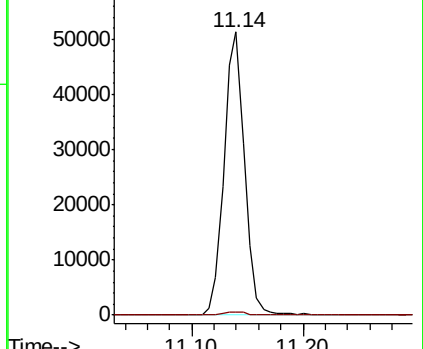
75 100

77 1.1 21.4 64.3#



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: 56.566 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

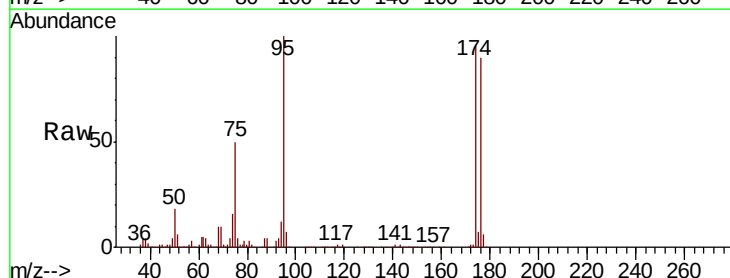
Tgt Ion: 75 Resp: 65164

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

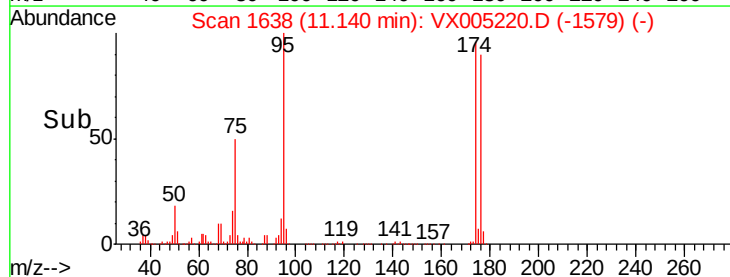
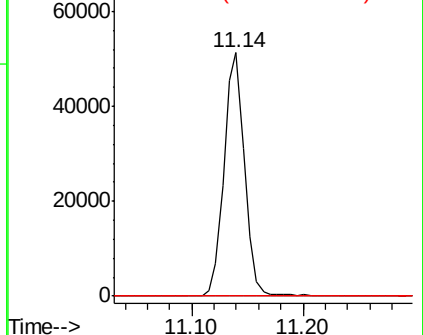
89 0.0 37.1 55.7#

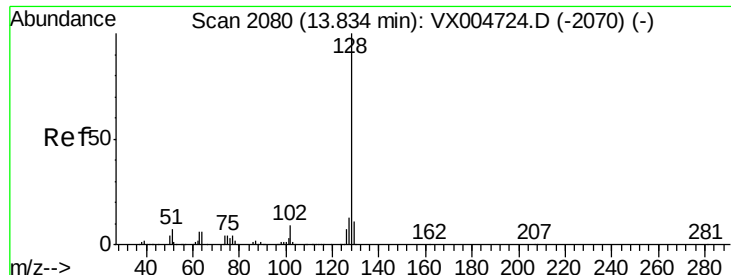


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.741 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005220.D

Acq: 10 Oct 2018 21:21

Instrument :

MSVOA_X

ClientSampleId :

RE-122D3-IMP-20181004

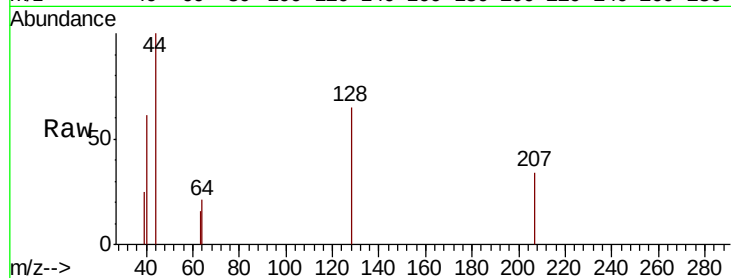
Tot Ion:128 Resp: 250

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

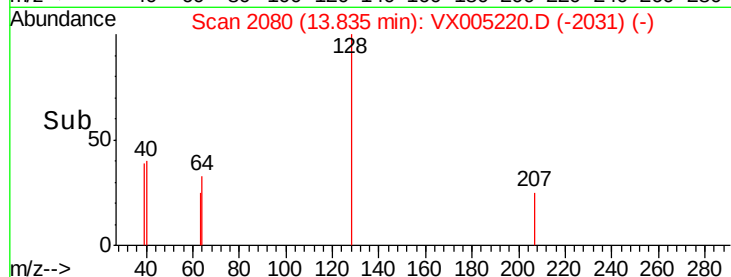
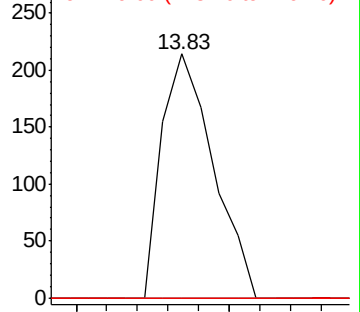
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->