

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005219.D
 Acq On : 10 Oct 2018 20:54
 Operator : JC/MD
 Sample : J5317-07 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-122D2-IMP-20181004

Quant Time: Oct 11 06:08:02 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	169317	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	269549	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	266535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147496	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	130320	53.88	ug/l	0.00
Spiked Amount			Recovery	=	107.76%	
35) Dibromofluoromethane	5.51	113	111183	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	8.72	98	391113	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
62) 4-Bromofluorobenzene	11.14	95	137214	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	

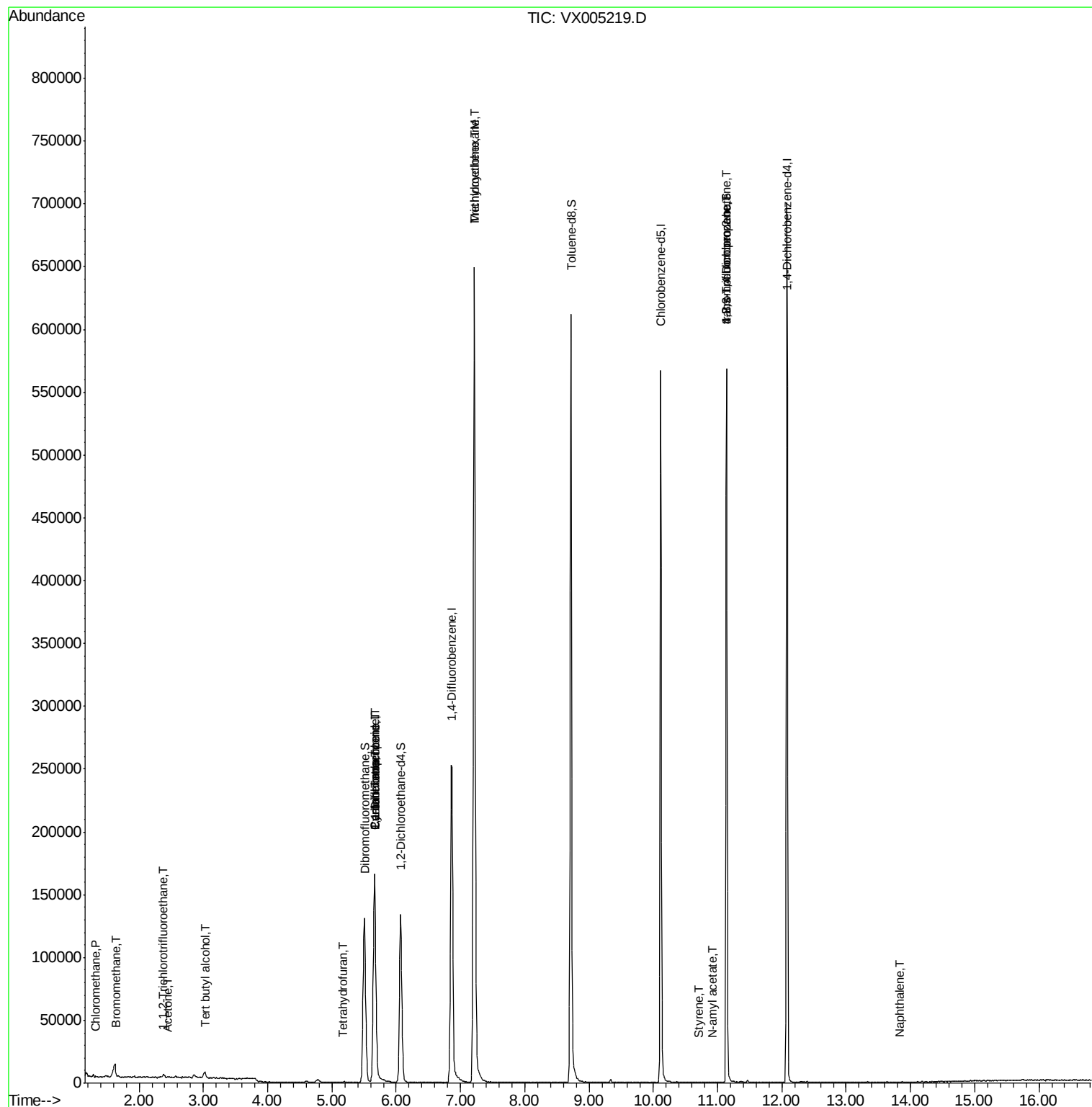
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	580	0.207	ug/l #	68
5) Bromomethane	1.64	94	337	0.216	ug/l	99
6) Chloroethane	1.70	64	68	Below Cal	#	1
9) 1,1,2-Trichlorotrifluoroet	2.39	101	967	0.522	ug/l	90
11) Tert butyl alcohol	3.03	59	3371	4.985	ug/l #	80
16) Acetone	2.45	43	1108	0.785	ug/l	92
20) Methylene Chloride	2.85	84	1058	Below Cal	#	81
29) Tetrahydrofuran	5.17	42	297	0.230	ug/l #	69
31) Cyclohexane	5.66	56	3319	1.078	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	11665	3.743	ug/l #	46
38) Carbon Tetrachloride	5.66	117	15634	4.772	ug/l #	17
39) Methylcyclohexane	7.21	83	3231	1.015	ug/l #	1
44) Trichloroethene	7.21	130	262846	109.574	ug/l	97
70) Styrene	10.72	104	63	2.149	ug/l #	40
74) N-amyl acetate	10.92	43	42	1.756	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	68347	20.674	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	194	Below Cal	#	63
81) trans-1,4-Dichloro-2-buten	11.14	75	68347	56.132	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	108	Below Cal	#	62
95) Naphthalene	13.83	128	271	0.741	ug/l #	69

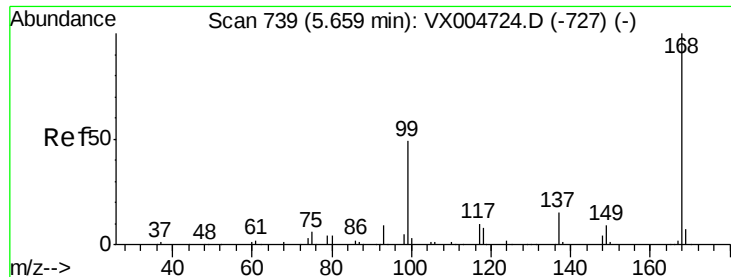
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

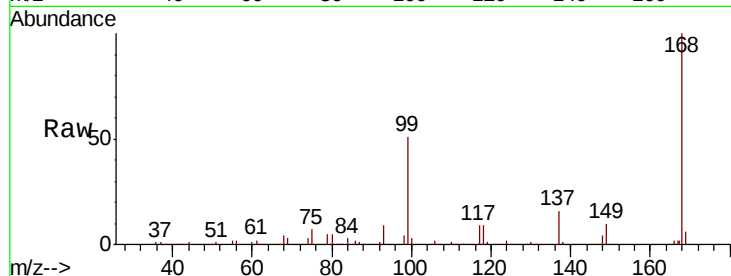
RE-122D2-IMP-20181004

Tot Ion:168 Resp: 169317

Ion Ratio Lower Upper

168 100

99 50.5 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

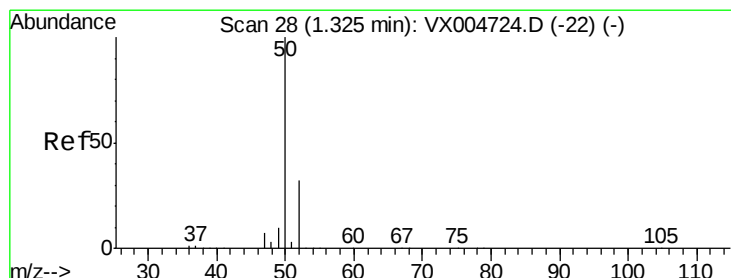
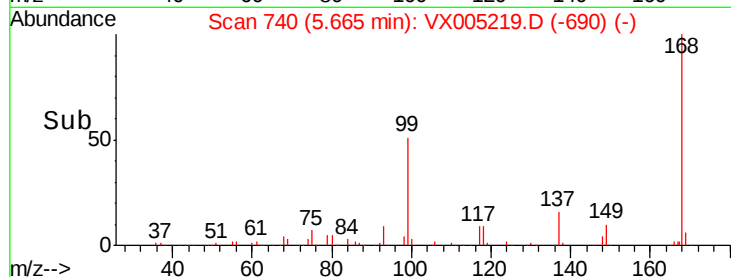
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005219.D

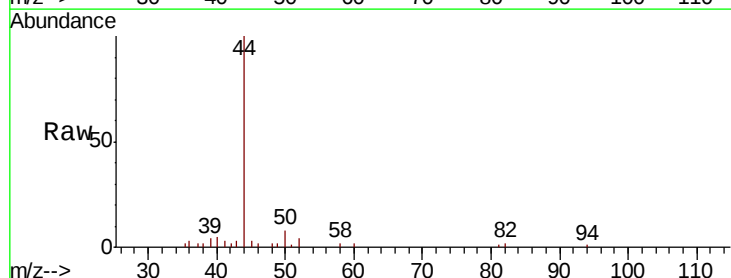
Acq: 10 Oct 2018 20:54

Tgt Ion: 50 Resp: 580

Ion Ratio Lower Upper

50 100

52 50.2 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

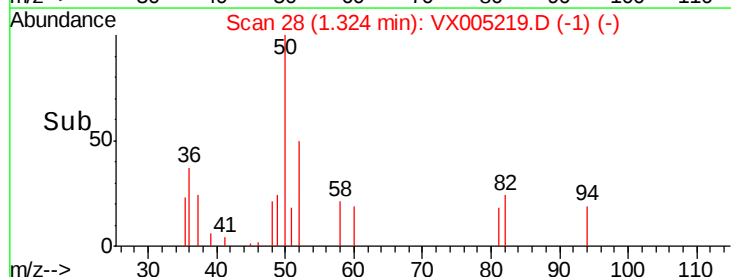
200

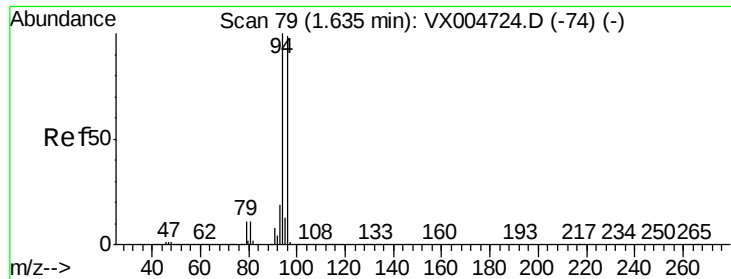
100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: 0.216 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

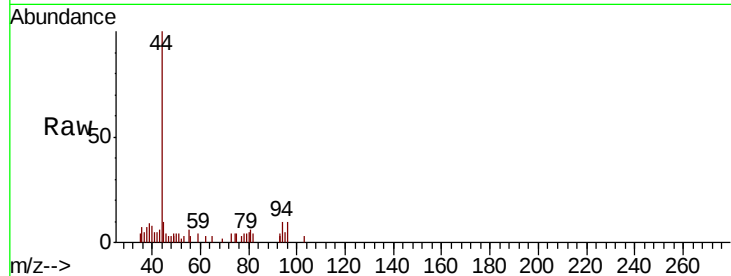
RE-122D2-IMP-20181004

Tot Ion: 94 Resp: 337

Ion Ratio Lower Upper

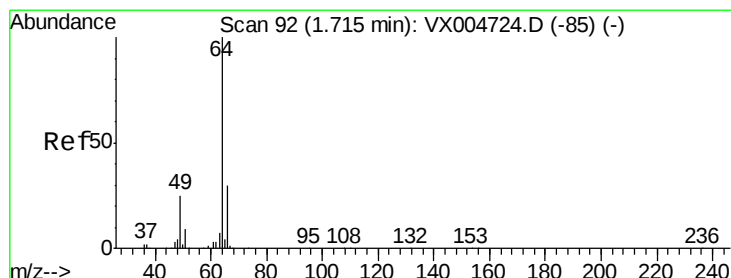
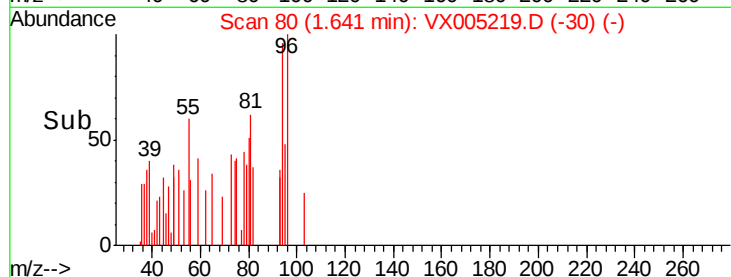
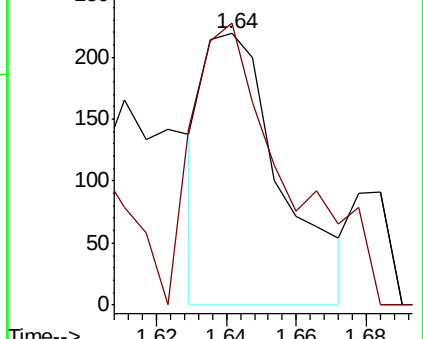
94 100

96 98.8 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX005219.D

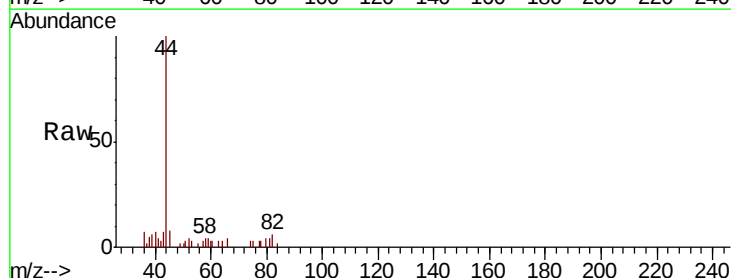
Acq: 10 Oct 2018 20:54

Tgt Ion: 64 Resp: 68

Ion Ratio Lower Upper

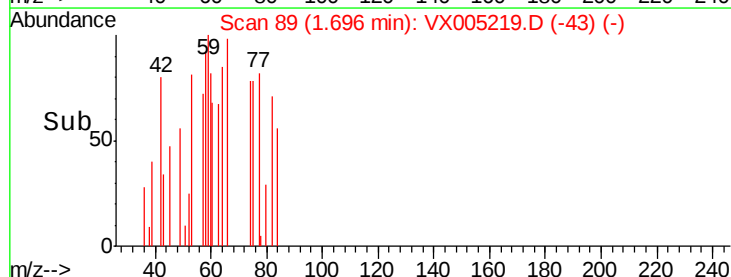
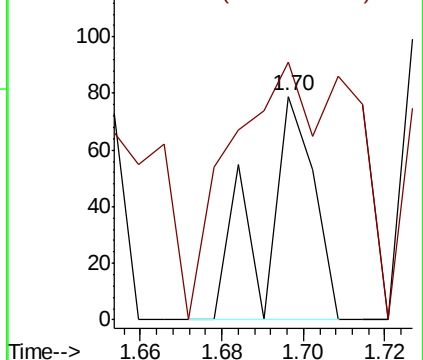
64 100

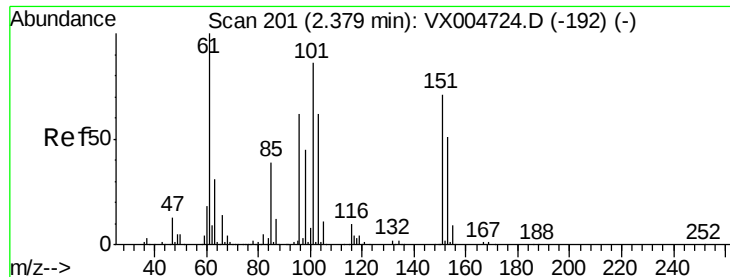
66 115.2 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.522 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

RE-122D2-IMP-20181004

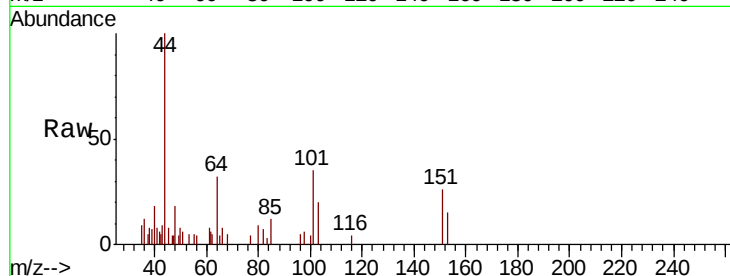
Tot Ion:101 Resp: 967

Ion Ratio Lower Upper

101 100

85 48.8 35.9 53.9

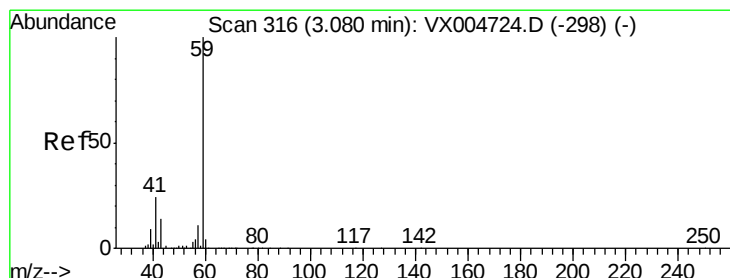
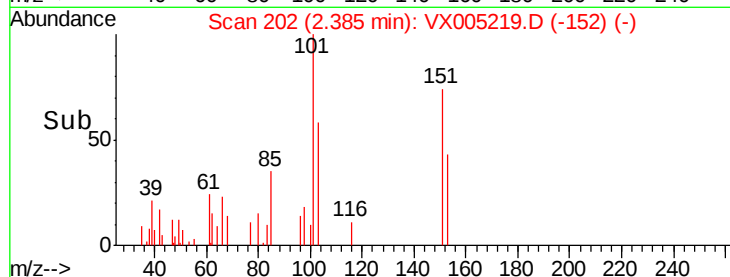
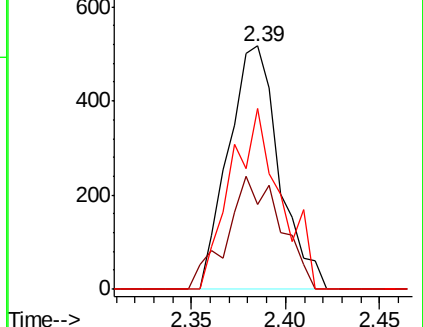
151 72.7 66.6 100.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 4.985 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005219.D

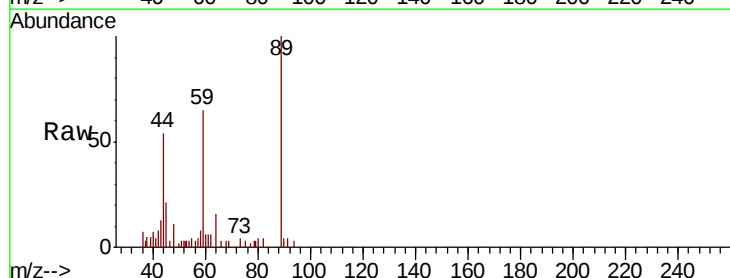
Acq: 10 Oct 2018 20:54

Tgt Ion: 59 Resp: 3371

Ion Ratio Lower Upper

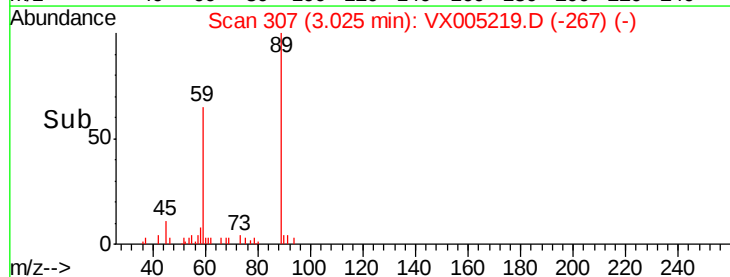
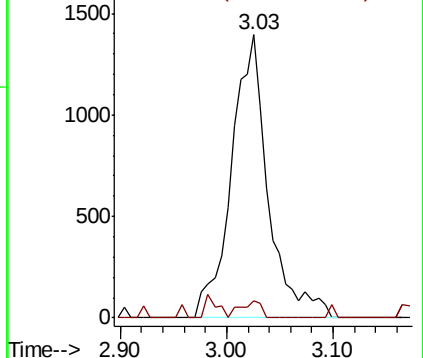
59 100

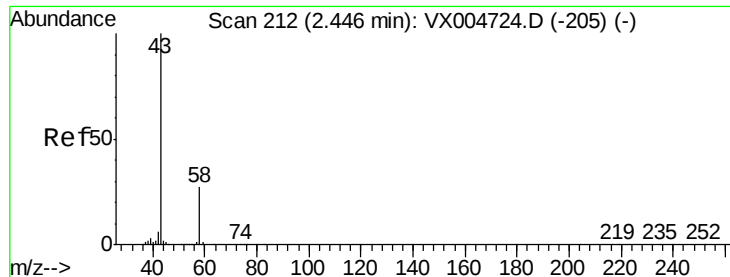
57 3.4 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 0.785 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

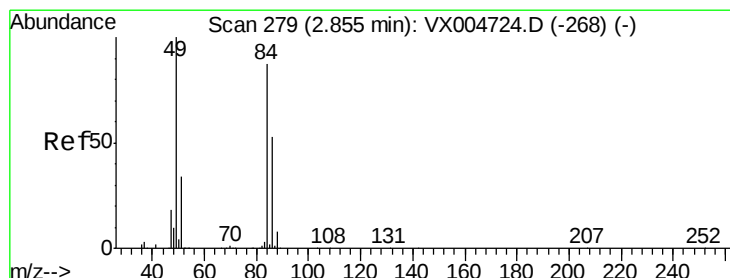
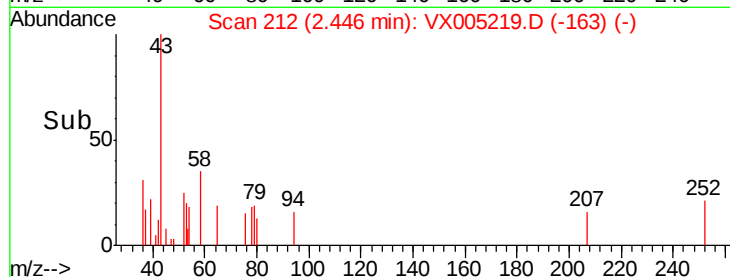
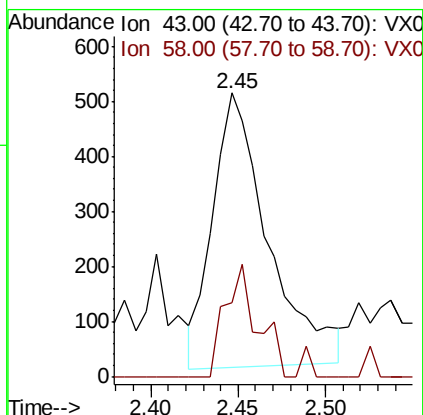
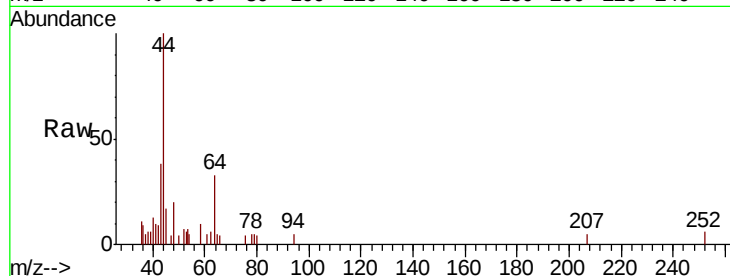
RE-122D2-IMP-20181004

Tot Ion: 43 Resp: 1108

Ion Ratio Lower Upper

43 100

58 31.1 21.8 32.6



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Tgt Ion: 84 Resp: 1058

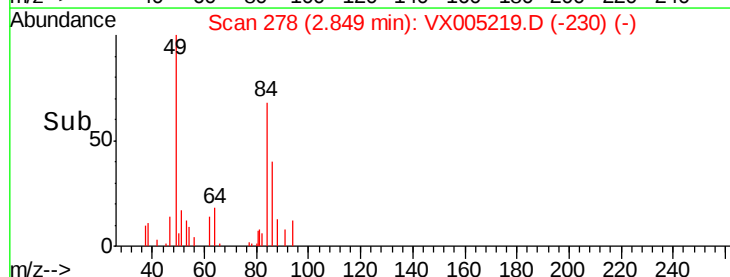
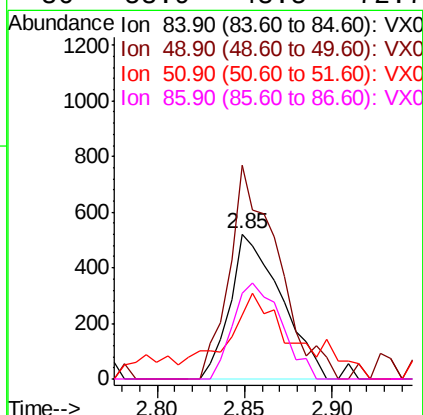
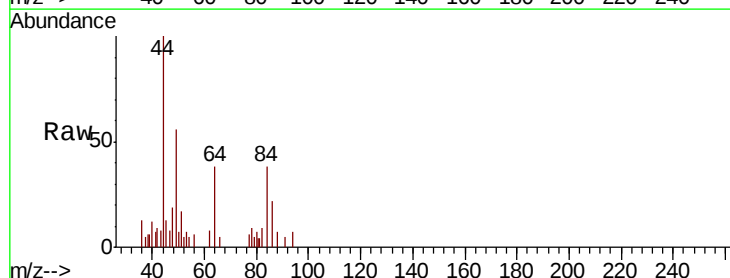
Ion Ratio Lower Upper

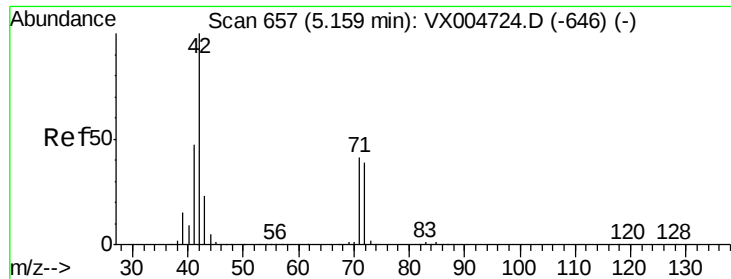
84 100

49 147.4 92.3 138.5#

51 31.5 31.8 47.6#

86 58.9 48.5 72.7





#29

Tetrahydrofuran

Concen: 0.230 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

RE-122D2-IMP-20181004

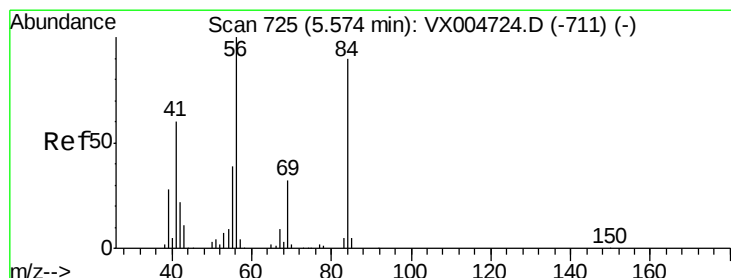
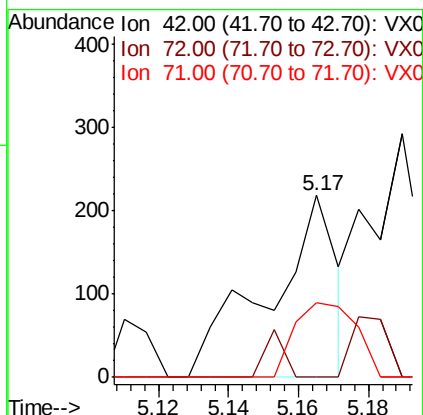
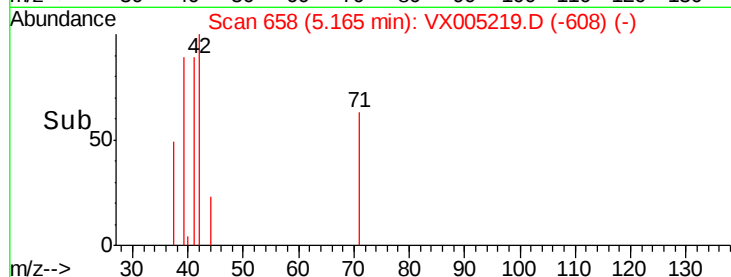
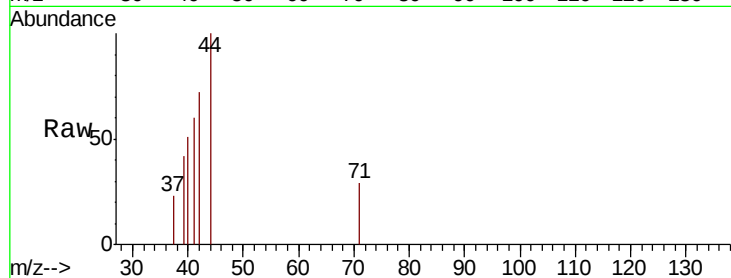
Tot Ion: 42 Resp: 297

Ion Ratio Lower Upper

42 100

72 7.1 33.7 50.5#

71 37.0 32.2 48.4



#31

Cyclohexane

Concen: 1.078 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

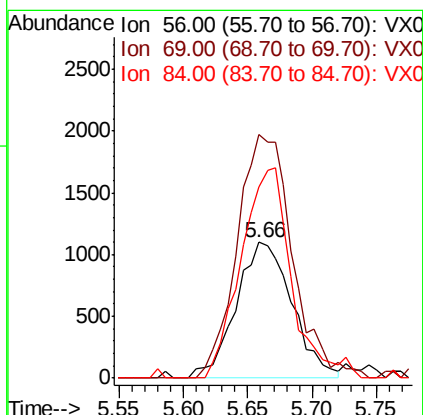
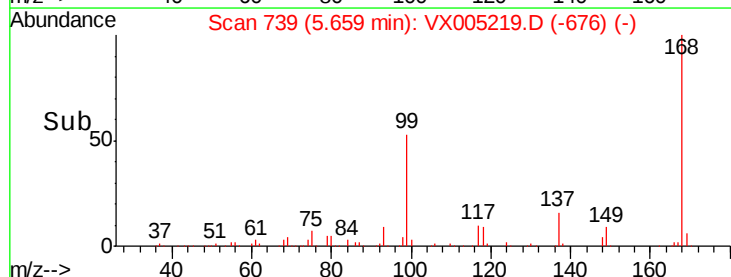
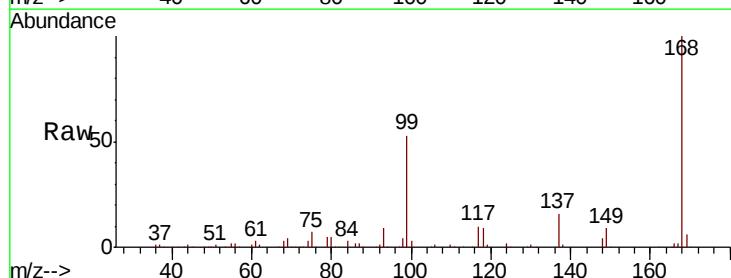
Tgt Ion: 56 Resp: 3319

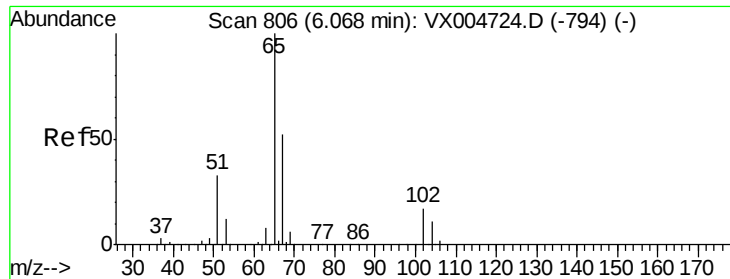
Ion Ratio Lower Upper

56 100

69 179.0 25.9 38.9#

84 141.0 71.9 107.9#





#33

1,2-Dichloroethane-d4

Concen: 53.880 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

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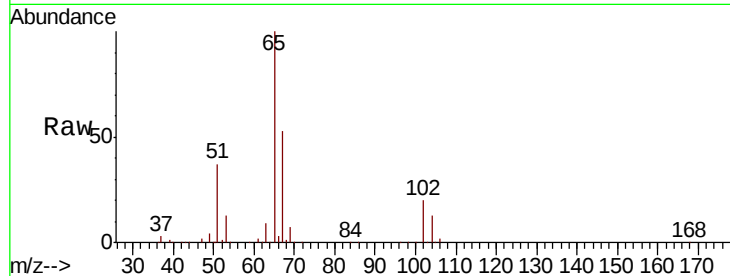
RE-122D2-IMP-20181004

Tot Ion: 65 Resp: 130320

Ion Ratio Lower Upper

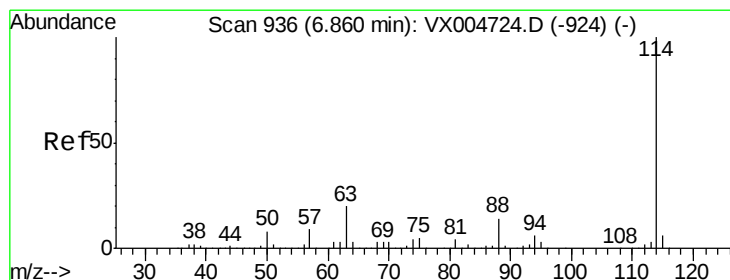
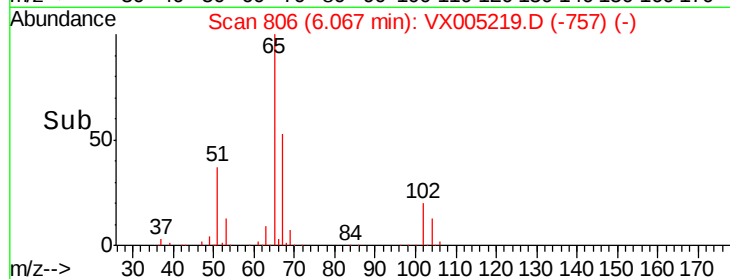
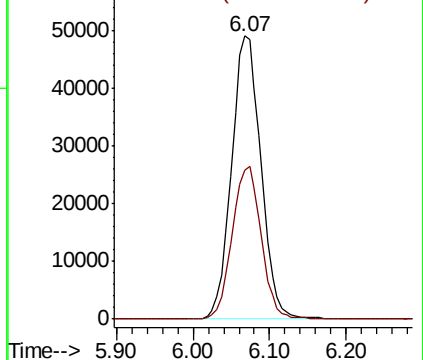
65 100

67 53.1 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: VX005219.D

Acq: 10 Oct 2018 20:54

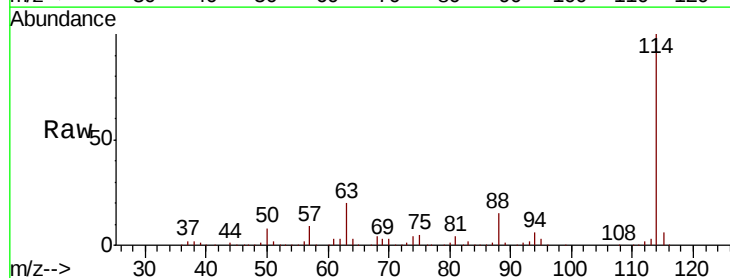
Tgt Ion: 114 Resp: 269549

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.8

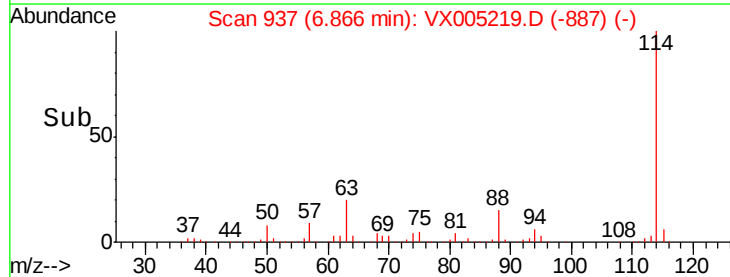
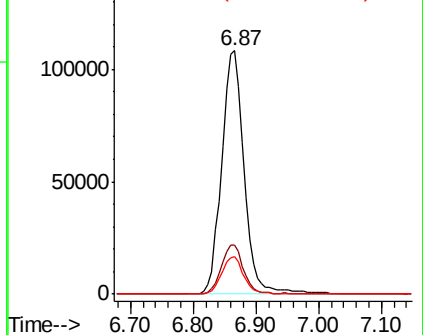
88 15.3 0.0 27.0

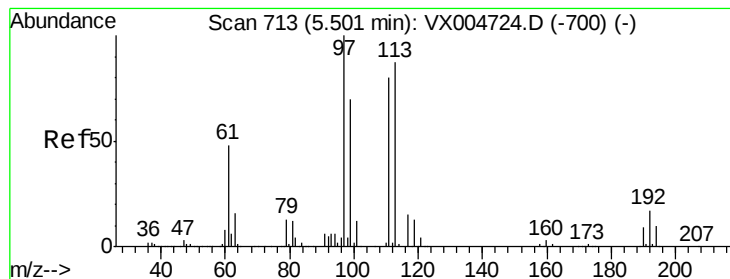


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.669 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

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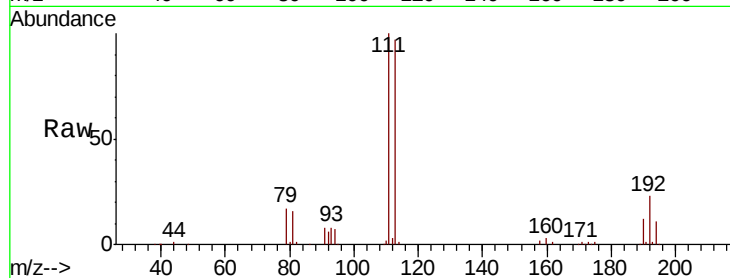
Tot Ion:113 Resp: 111183

Ion Ratio Lower Upper

113 100

111 102.2 77.0 115.4

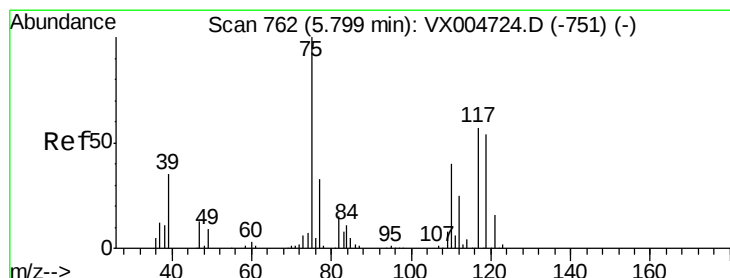
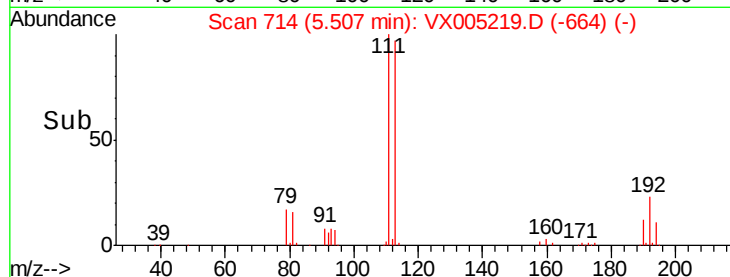
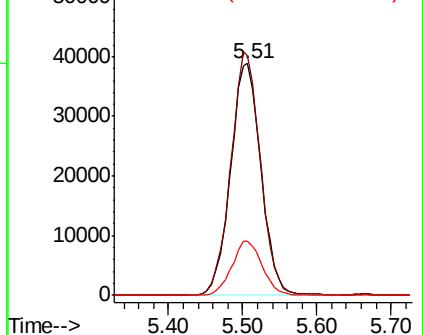
192 23.3 17.0 25.6



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: 3.743 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

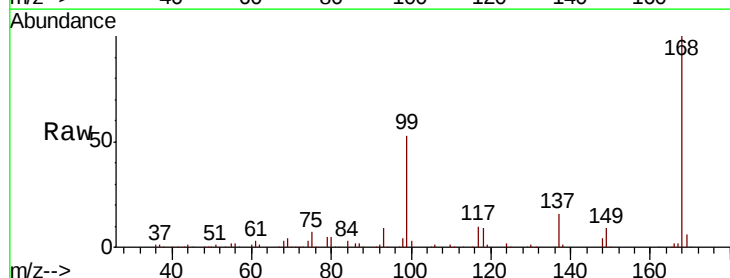
Tgt Ion: 75 Resp: 11665

Ion Ratio Lower Upper

75 100

110 9.3 20.0 59.9#

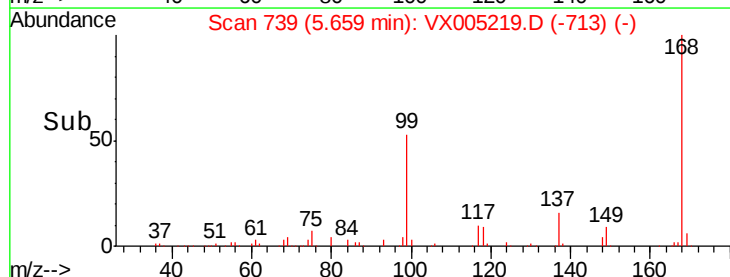
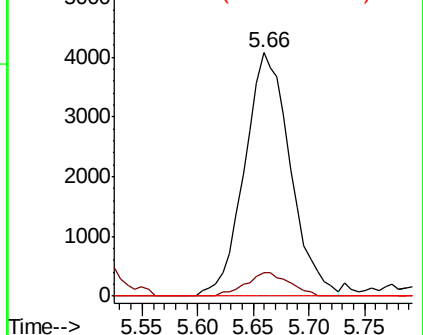
77 0.0 27.1 40.7#

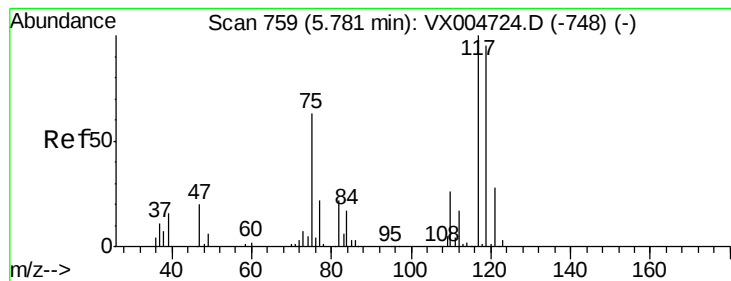


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.772 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

RE-122D2-IMP-20181004

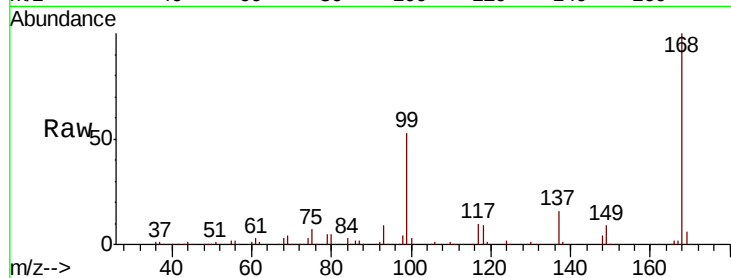
Tot Ion:117 Resp: 15634

Ion Ratio Lower Upper

117 100

119 5.4 75.2 112.8#

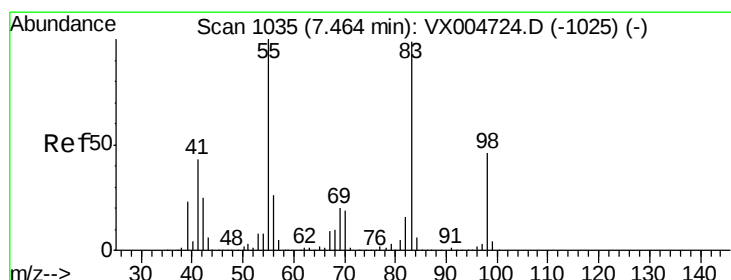
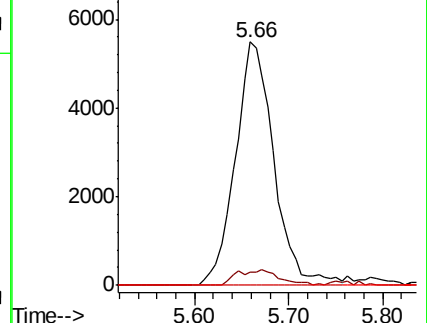
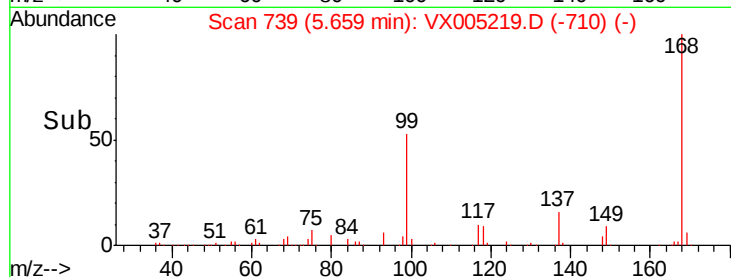
121 0.0 22.5 33.7#



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



#39

Methylcyclohexane

Concen: 1.015 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

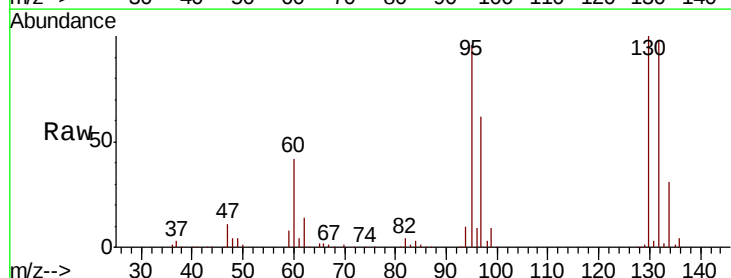
Tgt Ion: 83 Resp: 3231

Ion Ratio Lower Upper

83 100

55 0.0 81.1 121.7#

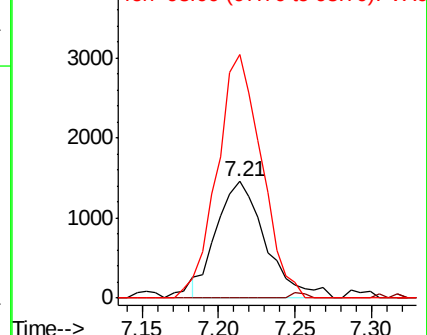
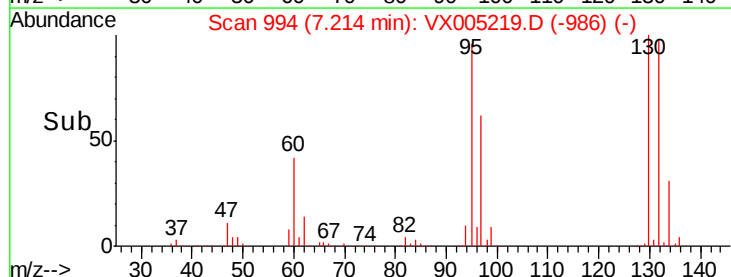
98 209.2 37.3 55.9#

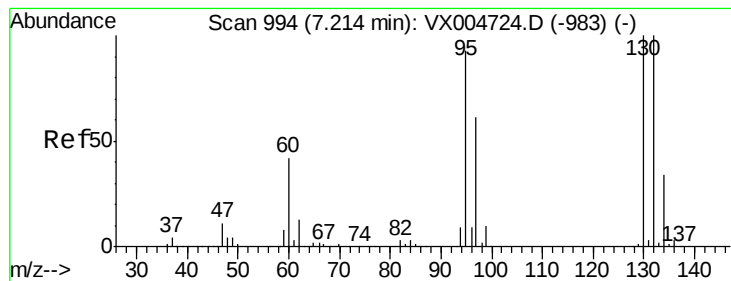


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 109.574 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

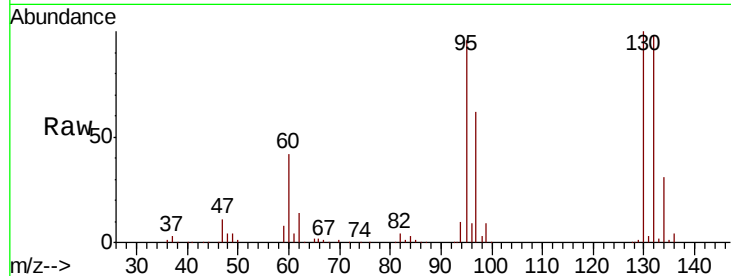
RE-122D2-IMP-20181004

Tot Ion:130 Resp: 262846

Ion Ratio Lower Upper

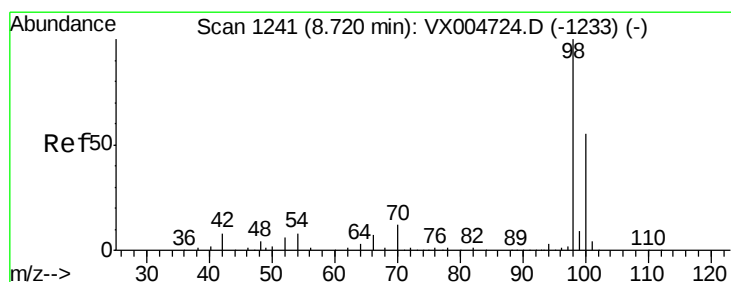
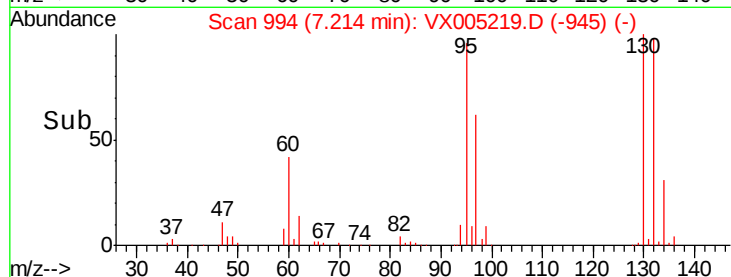
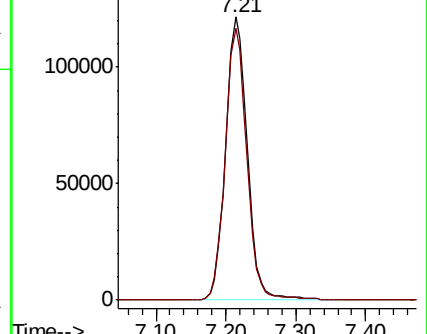
130 100

95 95.9 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.498 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005219.D

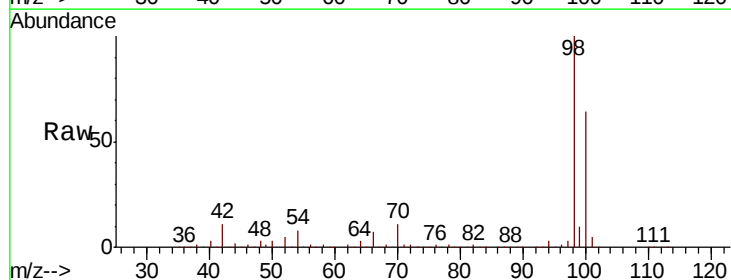
Acq: 10 Oct 2018 20:54

Tgt Ion: 98 Resp: 391113

Ion Ratio Lower Upper

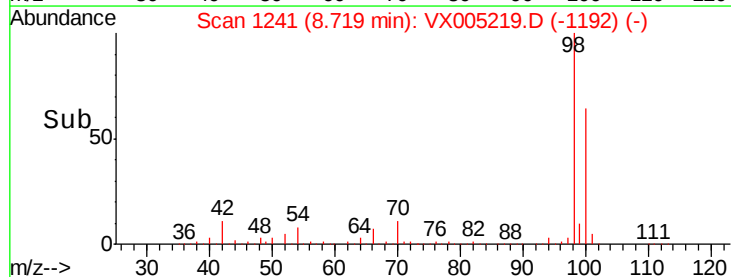
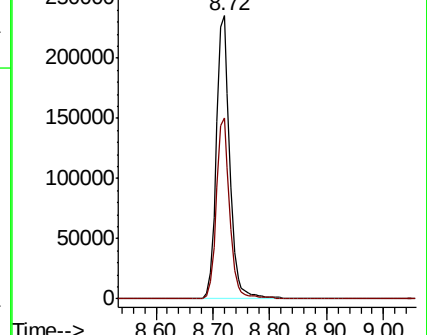
98 100

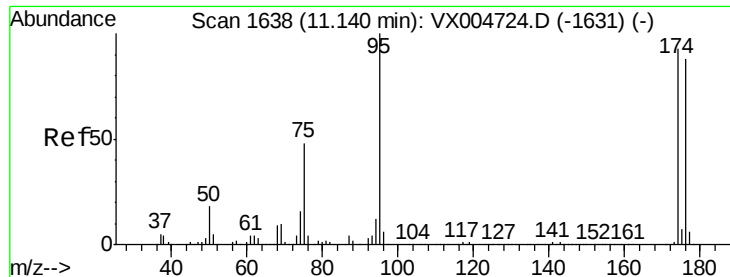
100 63.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 50.151 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

RE-122D2-IMP-20181004

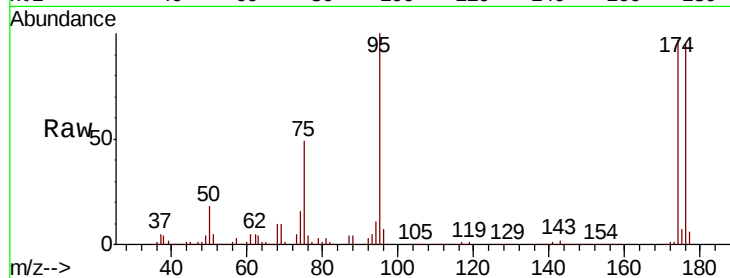
Tot Ion: 95 Resp: 137214

Ion Ratio Lower Upper

95 100

174 94.3 0.0 185.0

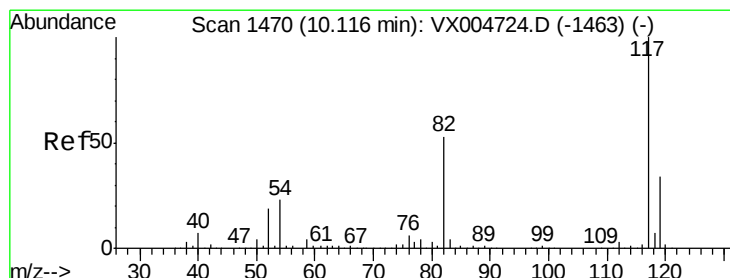
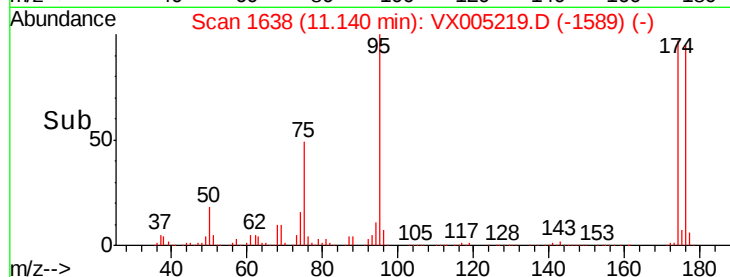
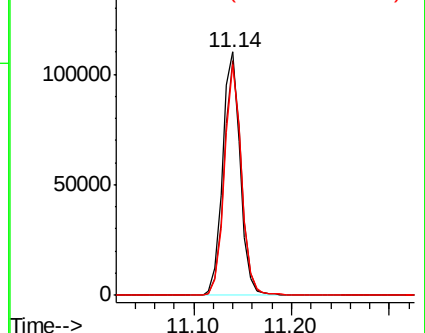
176 91.6 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): VX005219.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005219.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005219.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

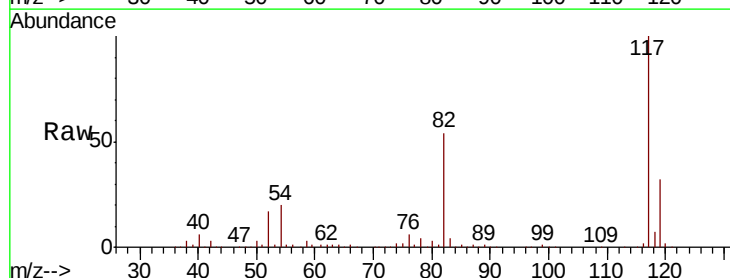
Tgt Ion: 117 Resp: 266535

Ion Ratio Lower Upper

117 100

82 54.0 42.2 63.4

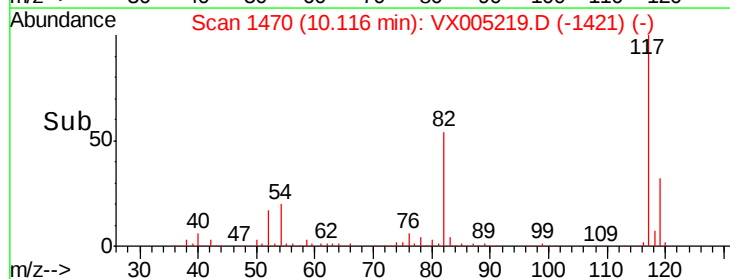
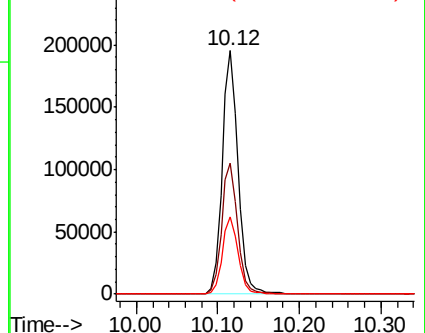
119 31.9 27.4 41.0

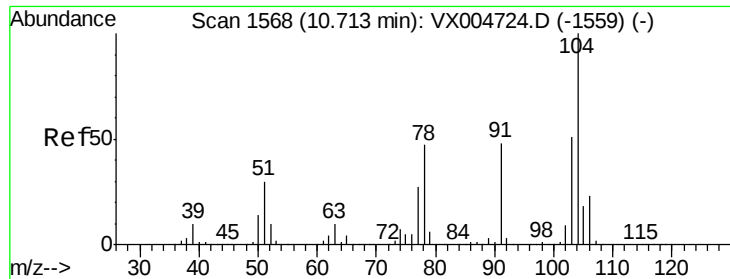


Abundance Ion 116.90 (116.60 to 117.60): VX005219.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005219.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005219.D (-1421) (-)





#70

Stvrene

Concen: 2.149 ug/l

RT: 10.72 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

RE-122D2-IMP-20181004

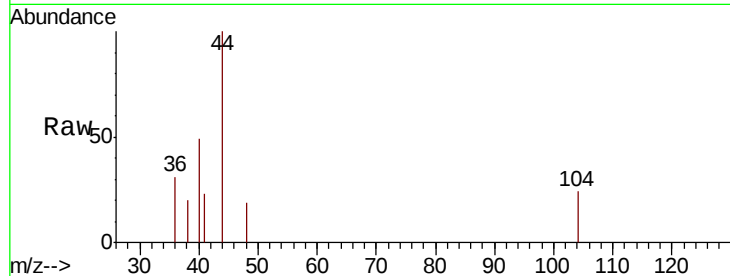
Tot Ion:104 Resp: 63

Ion Ratio Lower Upper

104 100

78 79.4 40.0 60.0#

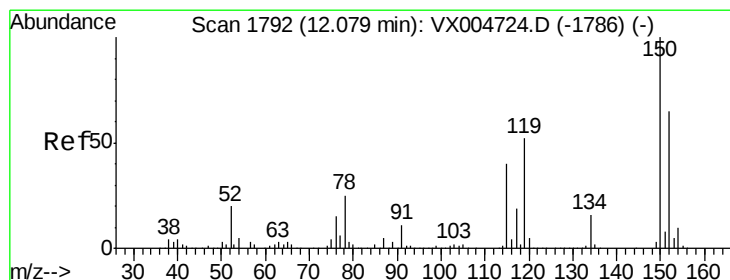
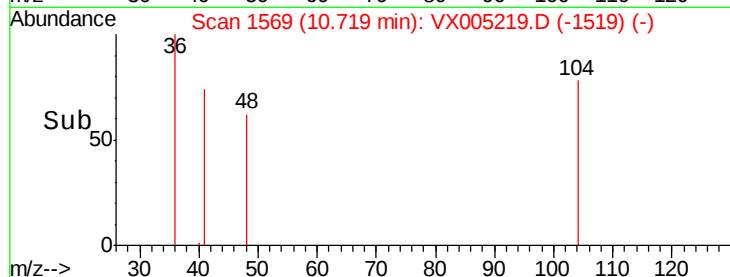
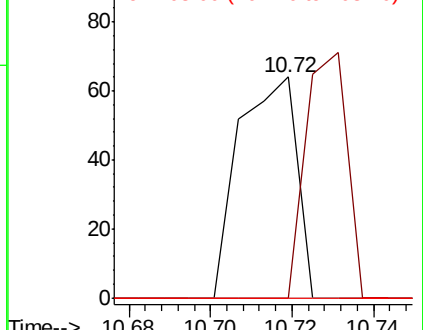
103 0.0 44.3 66.5#



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: VX005219.D

Acq: 10 Oct 2018 20:54

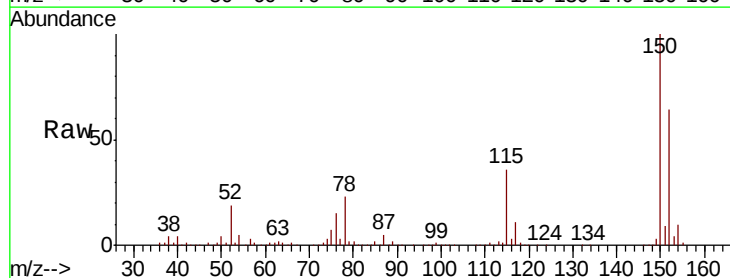
Tgt Ion:152 Resp: 147496

Ion Ratio Lower Upper

152 100

115 54.8 40.2 120.6

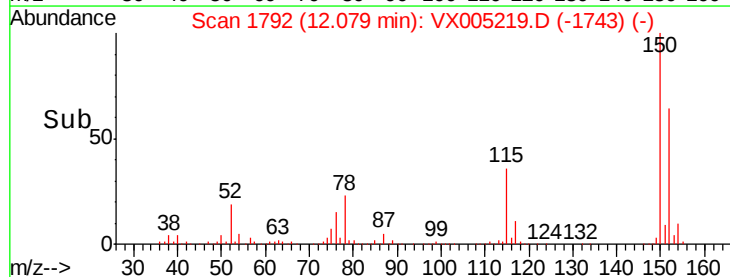
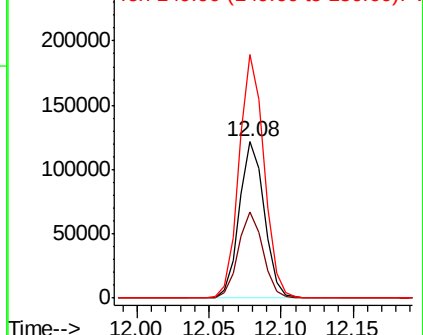
150 155.2 0.0 351.0

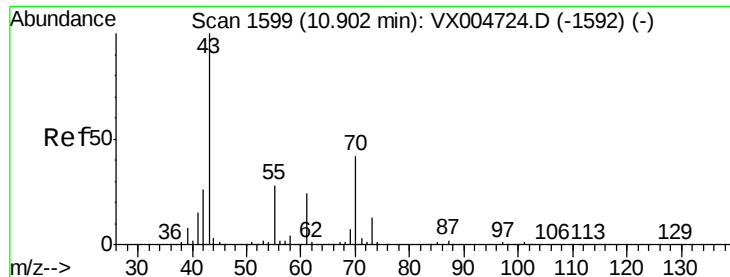


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.756 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

RE-122D2-IMP-20181004

Tot Ion: 43 Resp: 42

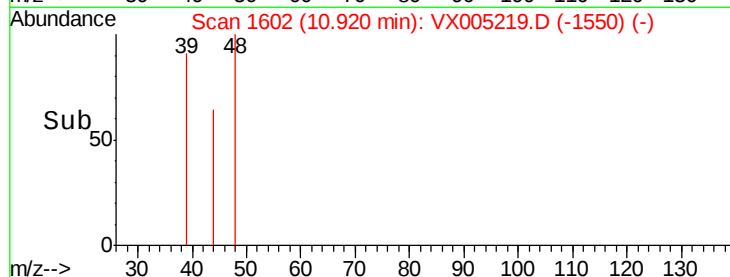
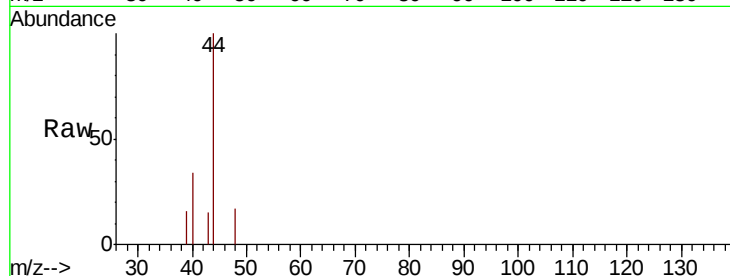
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

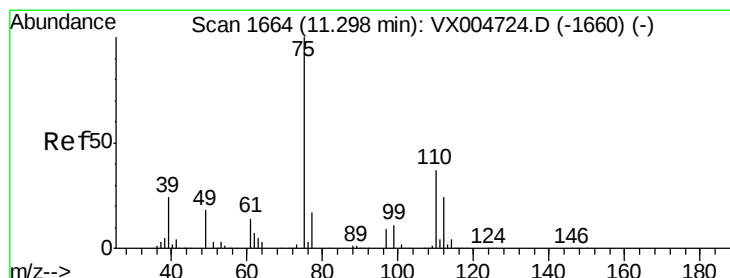
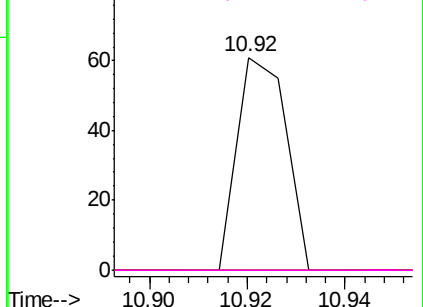


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.674 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005219.D

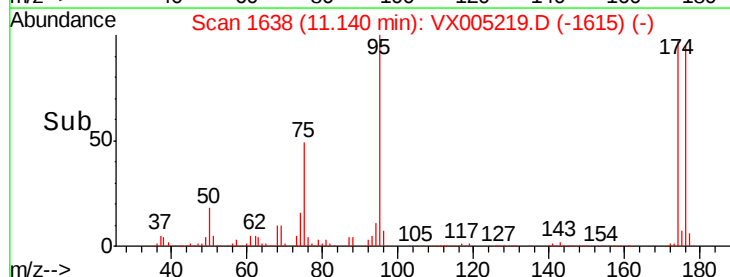
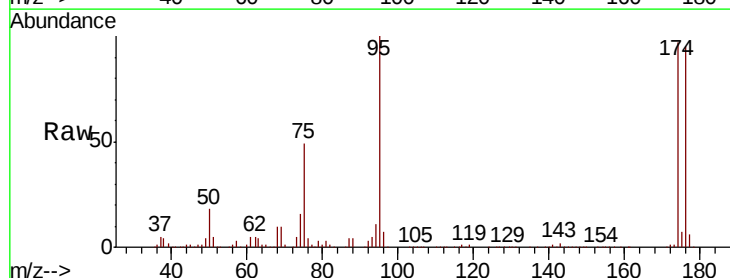
Acq: 10 Oct 2018 20:54

Tgt Ion: 75 Resp: 68347

Ion Ratio Lower Upper

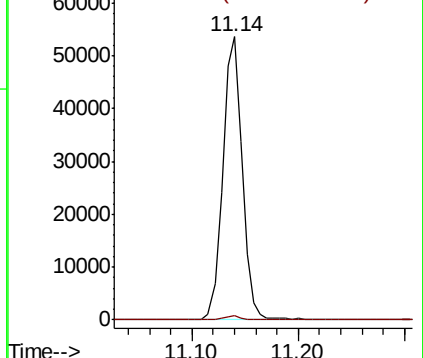
75 100

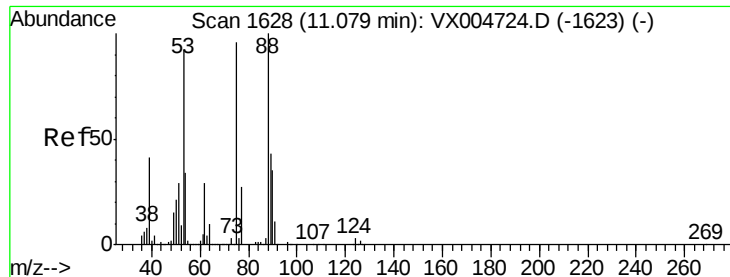
77 1.3 21.4 64.3#



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: 56.132 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005219.D

Acq: 10 Oct 2018 20:54

Instrument :

MSVOA_X

ClientSampleId :

RE-122D2-IMP-20181004

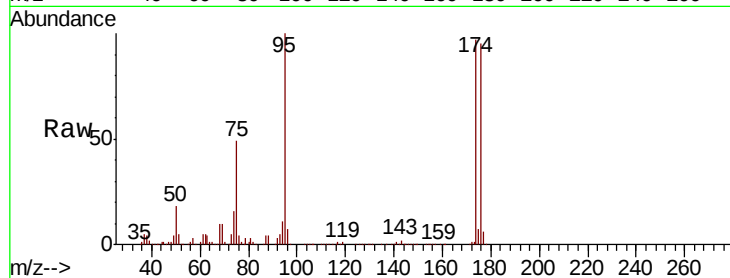
Tot Ion: 75 Resp: 68347

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

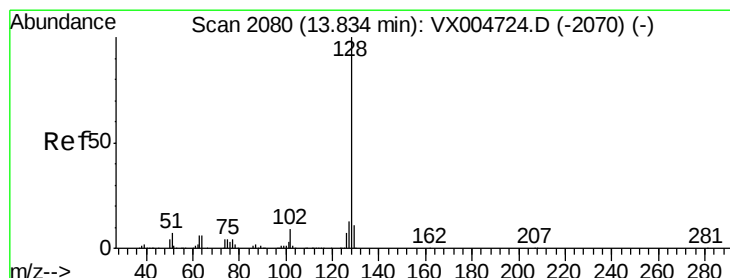
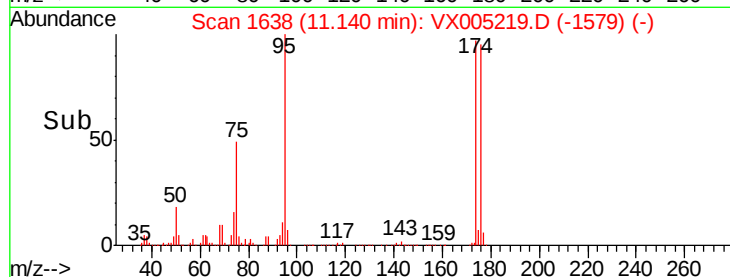
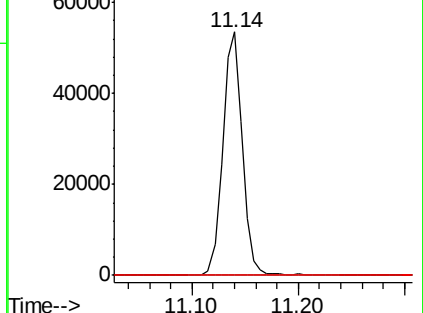
89 0.1 37.1 55.7#



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: VX005219.D

Acq: 10 Oct 2018 20:54

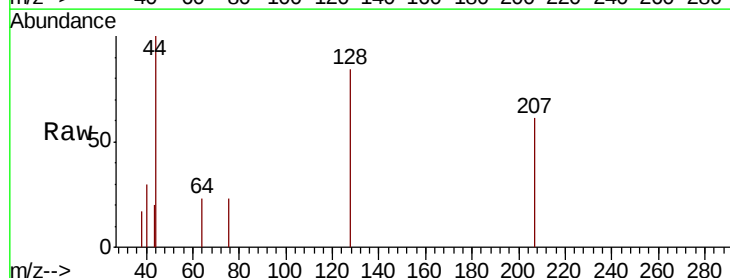
Tgt Ion: 128 Resp: 271

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

