

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121318\
 Data File : VX006501.D
 Acq On : 13 Dec 2018 17:57
 Operator : JC/MD
 Sample : J6361-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TN4803-121218

Quant Time: Dec 14 00:18:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	639912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1023022	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	946418	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	453461	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	350151	53.60	ug/l	0.00
Spiked Amount			Recovery	=	107.20%	
35) Dibromofluoromethane	5.51	113	306587	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
50) Toluene-d8	8.71	98	1219963	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
62) 4-Bromofluorobenzene	11.13	95	453392	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	

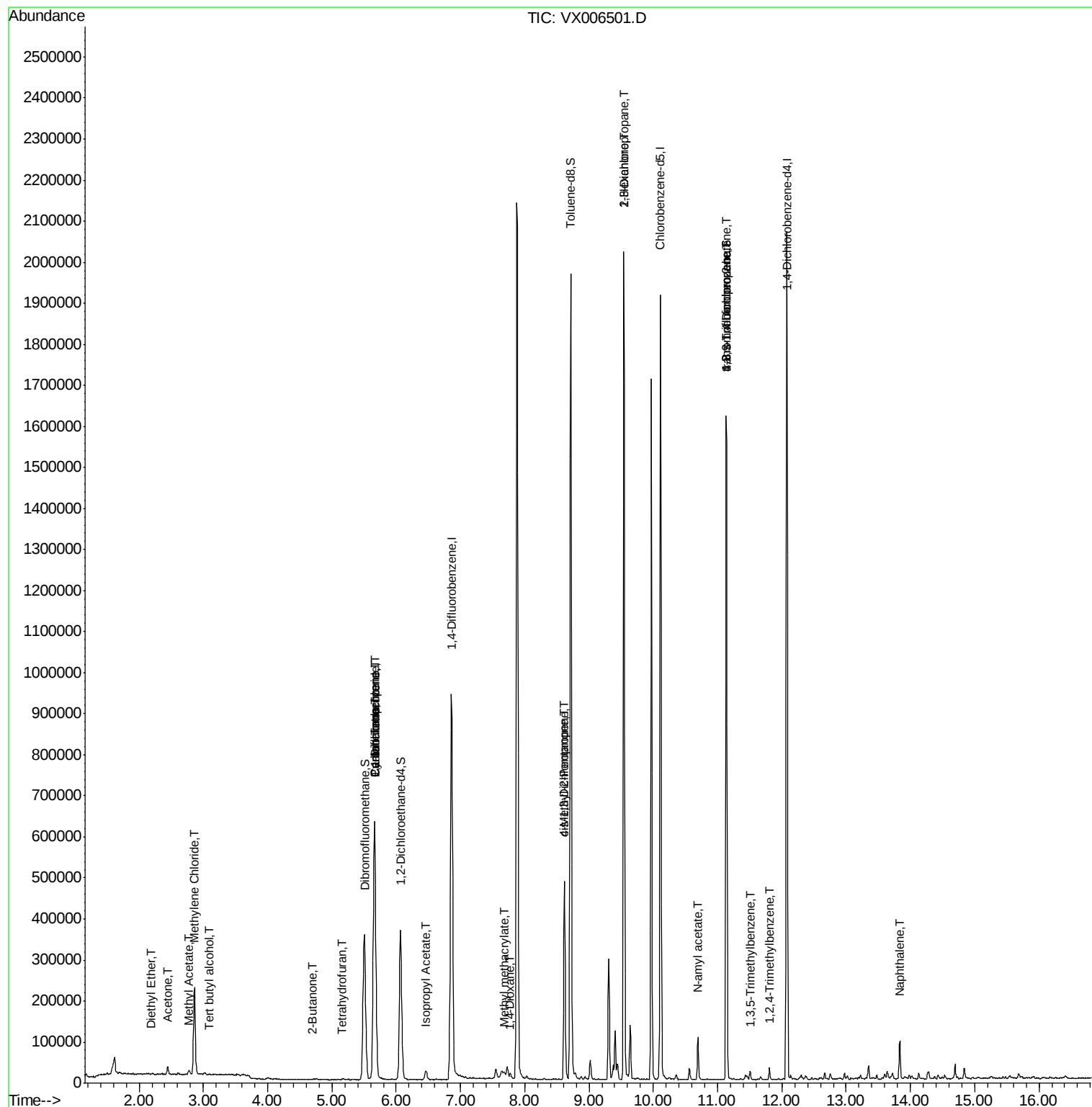
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.18	74	948	0.235	ug/l	73
11) Tert butyl alcohol	3.09	59	410	0.230	ug/l #	1
16) Acetone	2.45	43	19518	6.367	ug/l	92
18) Methyl Acetate	2.78	43	13479	1.315	ug/l #	88
20) Methylene Chloride	2.86	84	101706	15.588	ug/l	95
25) 2-Butanone	4.70	43	1994	0.456	ug/l #	83
29) Tetrahydrofuran	5.16	42	1111	0.365	ug/l #	85
31) Cyclohexane	5.66	56	9918	1.051	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	43175	5.012	ug/l #	49
38) Carbon Tetrachloride	5.66	117	59784	5.899	ug/l #	16
43) Isopropyl Acetate	6.46	43	28869	1.795	ug/l	97
48) Methyl methacrylate	7.68	41	15986	2.043	ug/l #	13
49) 1,4-Dioxane	7.76	88	256	1.327	ug/l #	27
51) 4-Methyl-2-Pentanone	8.62	43	150478	16.070	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	80115	7.193	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	18857	1.729	ug/l #	47
59) 2-Hexanone	9.54	43	217884	30.456	ug/l #	52
74) N-amyl acetate	10.69	43	22169	1.644	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	205290	23.455	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	8543	0.328	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	205290	55.042	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	12824	0.477	ug/l	96
95) Naphthalene	13.83	128	60944	1.750	ug/l	98

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

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ClientSampled :
TN4803-121218

Quant Time: Dec 14 00:18:13 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
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: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

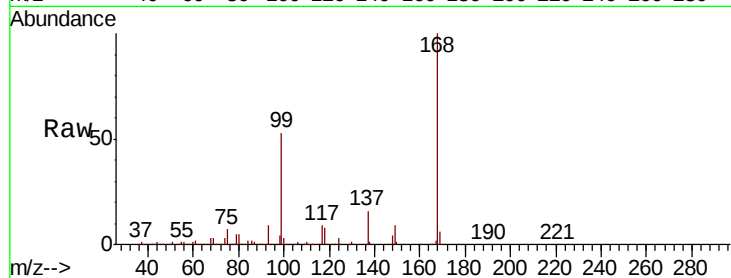
TN4803-121218

Tot Ion:168 Resp: 639912

Ion Ratio Lower Upper

168 100

99 52.8 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

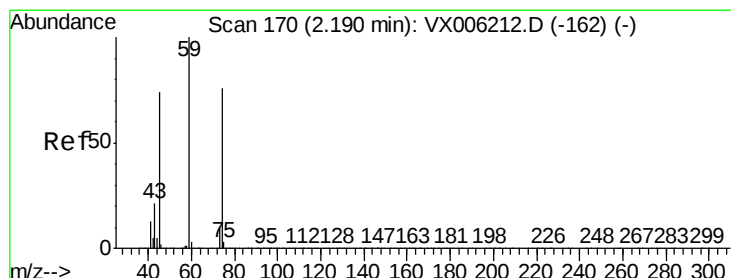
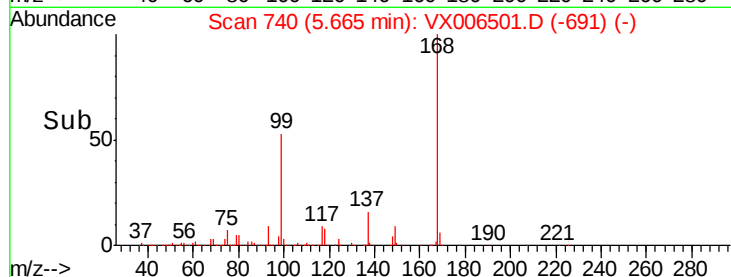
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#8

Diethyl Ether

Concen: 0.235 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX006501.D

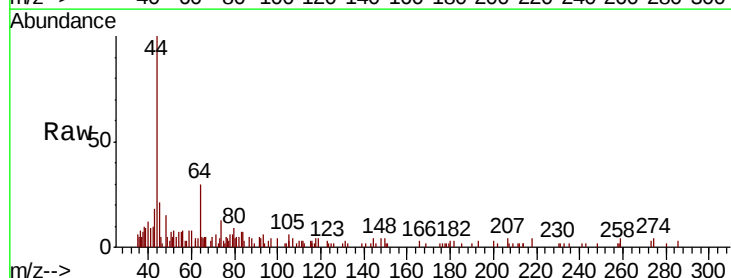
Acq: 13 Dec 2018 17:57

Tgt Ion: 74 Resp: 948

Ion Ratio Lower Upper

74 100

45 71.8 49.5 148.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1000

800

600

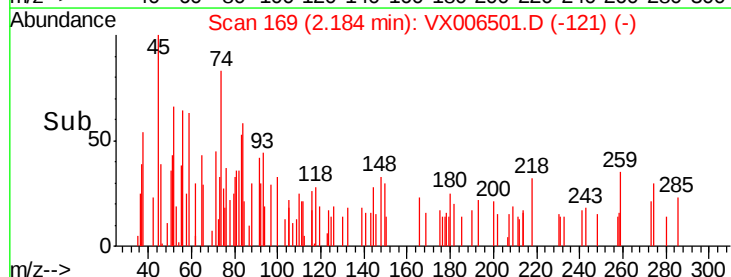
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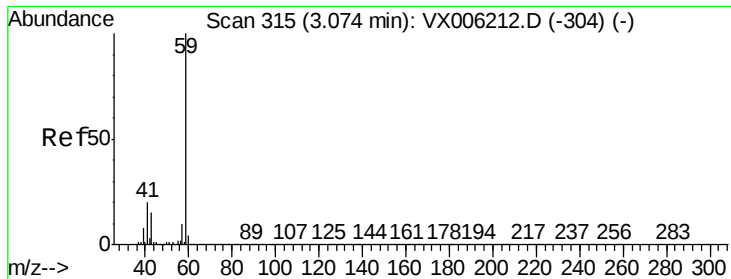
200

0

2.15 2.20

Time-->



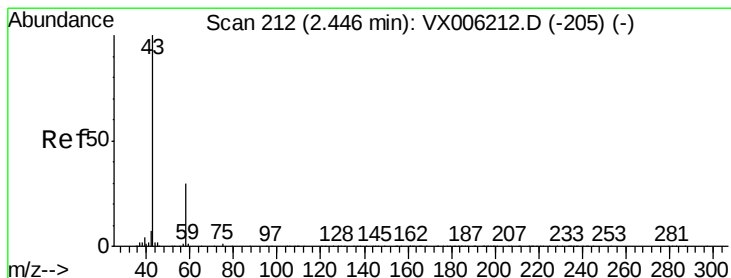
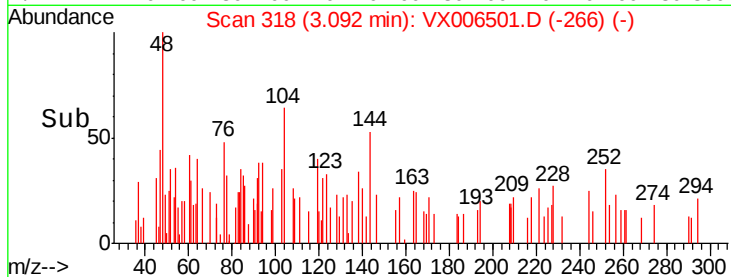
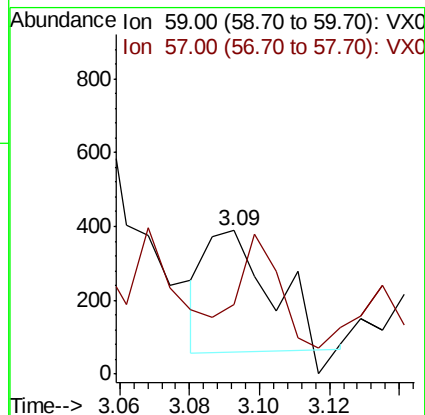
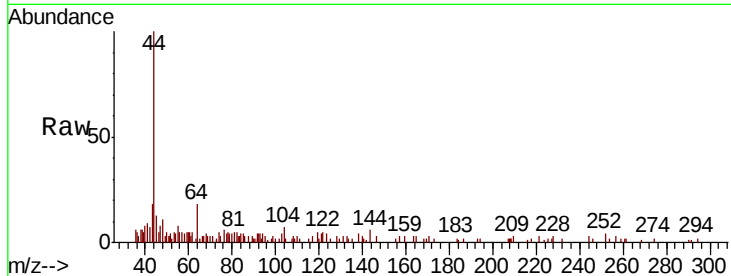


#11

Tert butyl alcohol
Concen: 0.230 ug/l
RT: 3.09 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

Instrument :
MSVOA_X
ClientSampled :
TN4803-121218

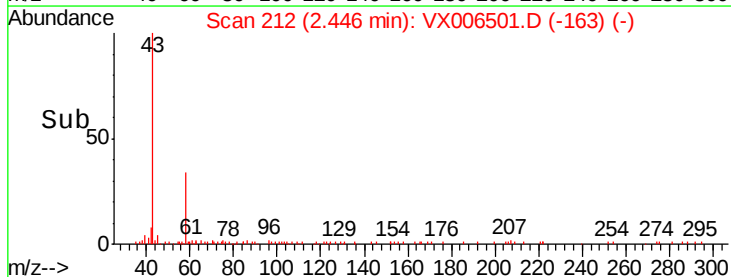
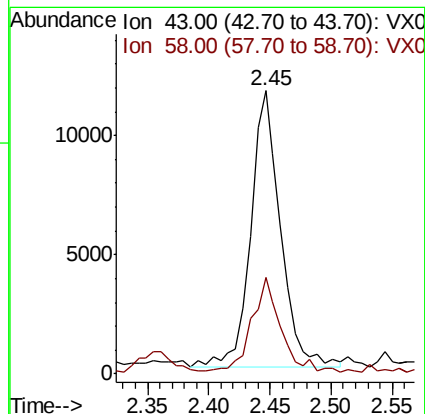
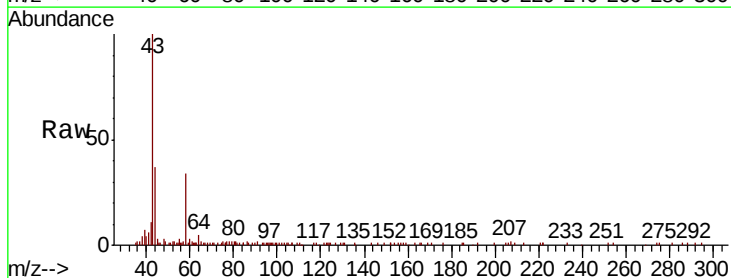
Tot Ion: 59 Resp: 410
Ion Ratio Lower Upper
59 100
57 59.5 8.2 12.2#

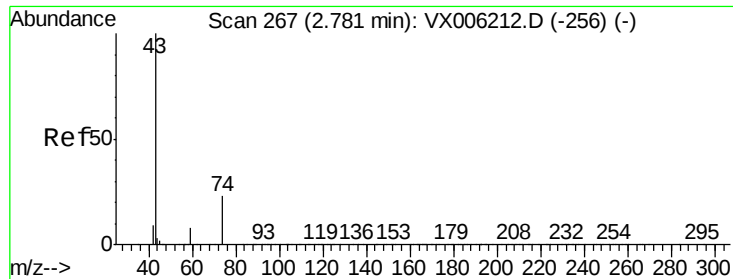


#16

Acetone
Concen: 6.367 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

Tgt Ion: 43 Resp: 19518
Ion Ratio Lower Upper
43 100
58 34.2 24.0 36.0

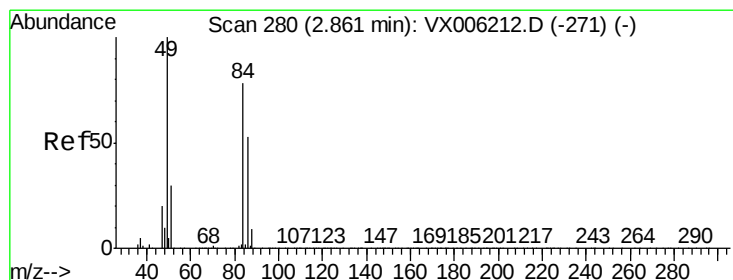
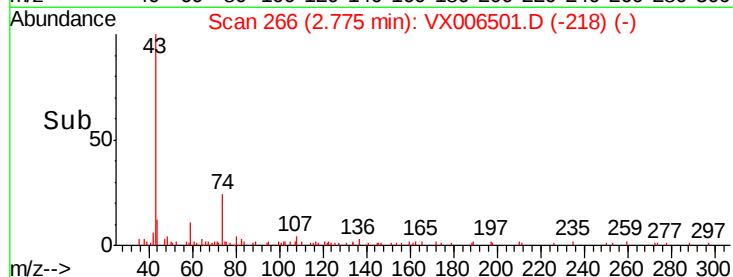
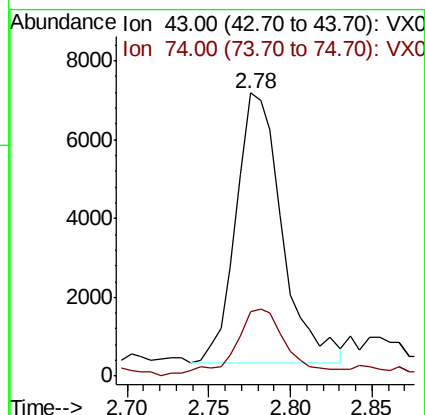
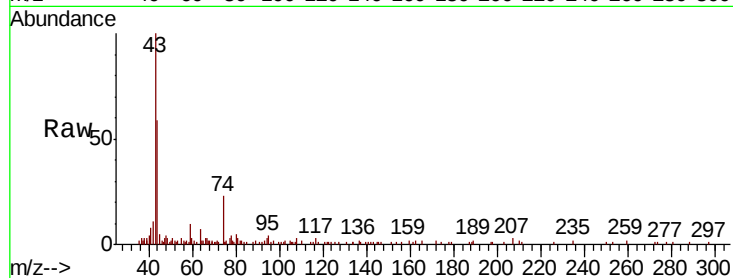




#18
Methyl Acetate
Concen: 1.315 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

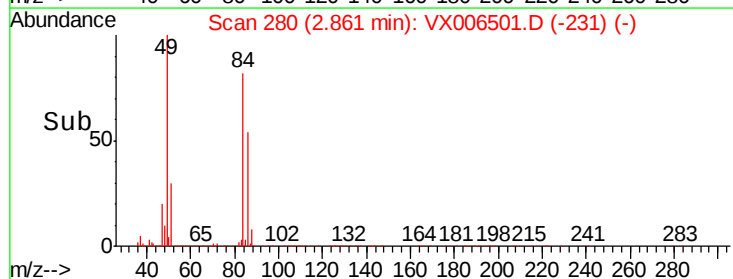
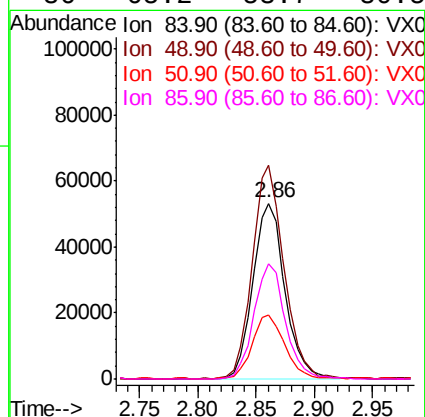
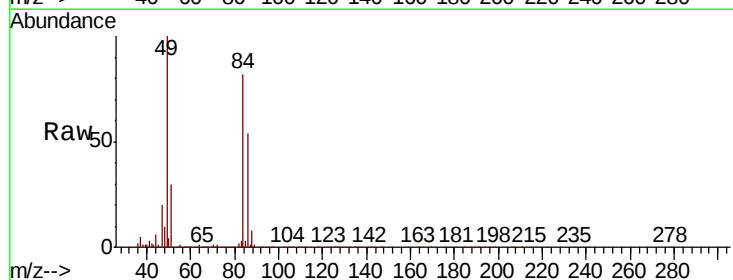
Instrument :
MSVOA_X
ClientSampleId :
TN4803-121218

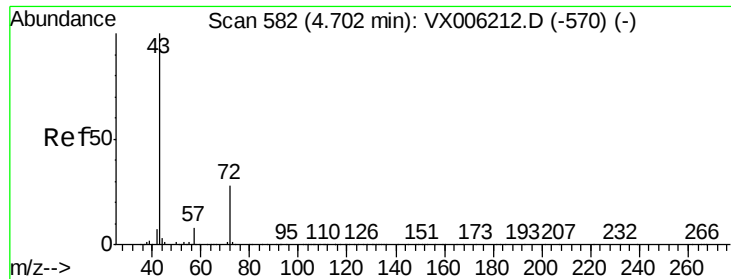
Tot Ion: 43 Resp: 13479
Ion Ratio Lower Upper
43 100
74 27.9 17.9 26.9#



#20
Methylene Chloride
Concen: 15.588 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

Tgt Ion: 84 Resp: 101706
Ion Ratio Lower Upper
84 100
49 121.4 102.2 153.4
51 36.1 31.1 46.7
86 65.2 53.7 80.5





#25

2-Butanone

Concen: 0.456 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

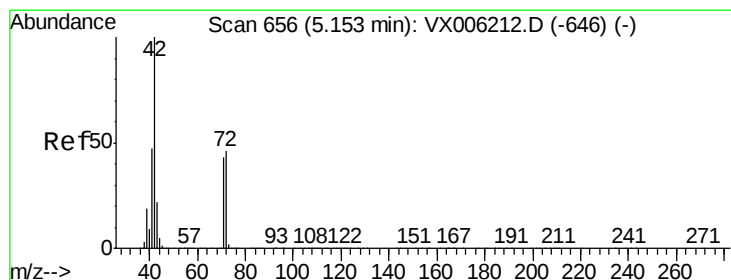
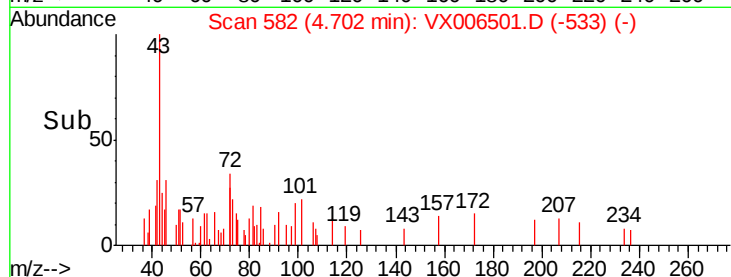
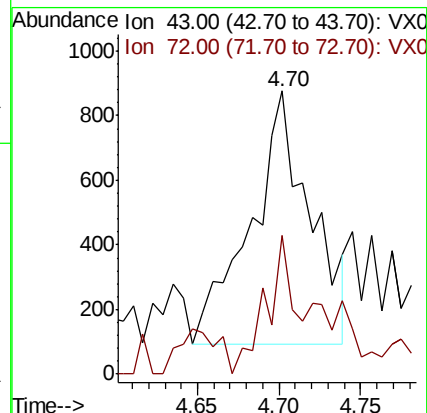
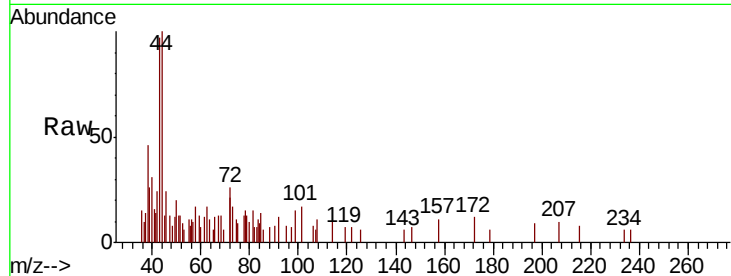
TN4803-121218

Tot Ion: 43 Resp: 1994

Ion Ratio Lower Upper

43 100

72 37.0 22.6 33.8#



#29

Tetrahydrofuran

Concen: 0.365 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

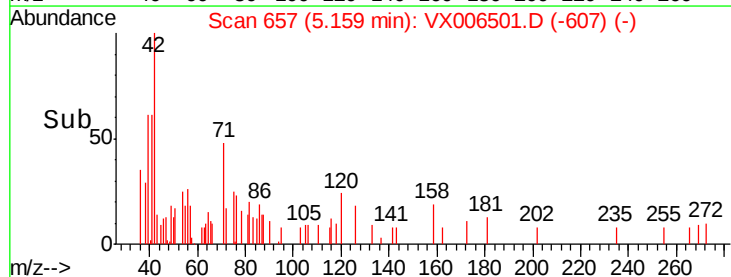
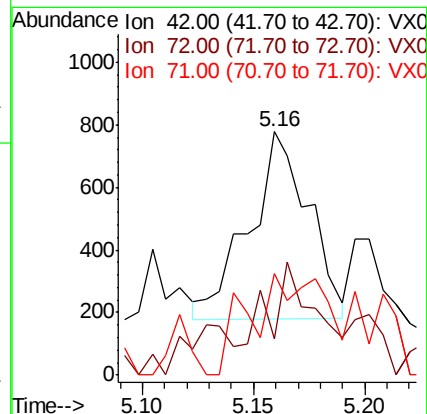
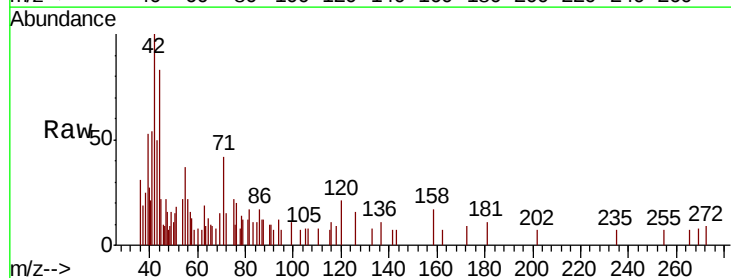
Tgt Ion: 42 Resp: 1111

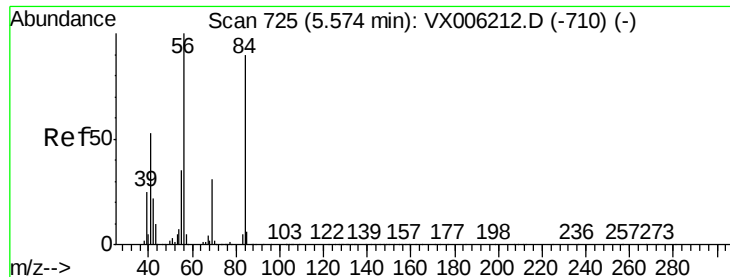
Ion Ratio Lower Upper

42 100

72 51.8 37.8 56.8

71 28.8 35.2 52.8#

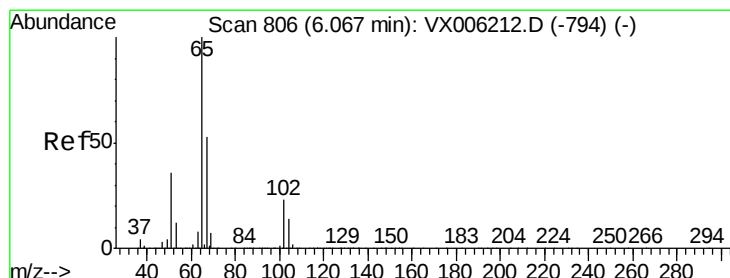
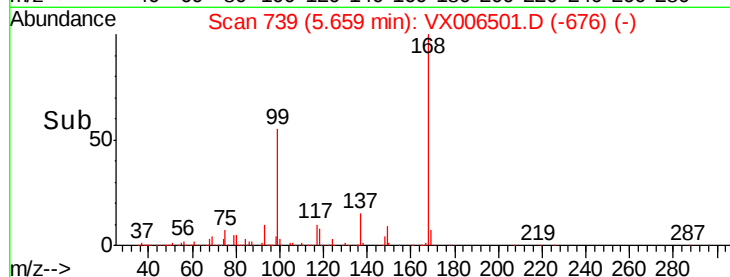
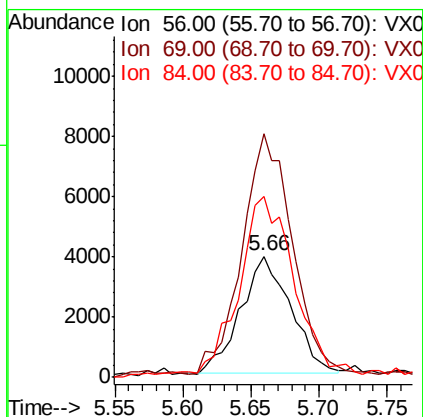
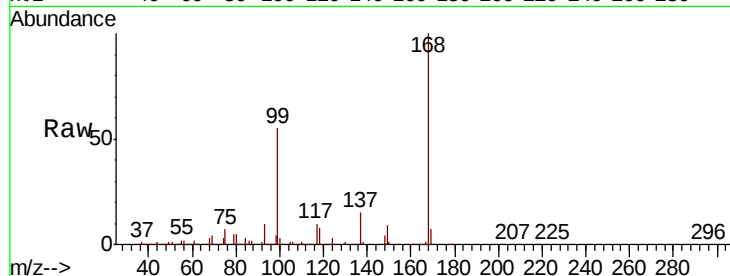




#31
Cyclohexane
Concen: 1.051 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

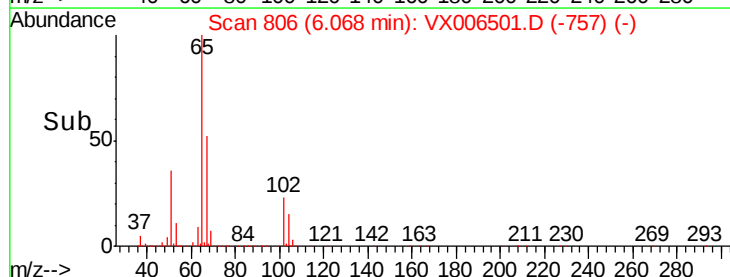
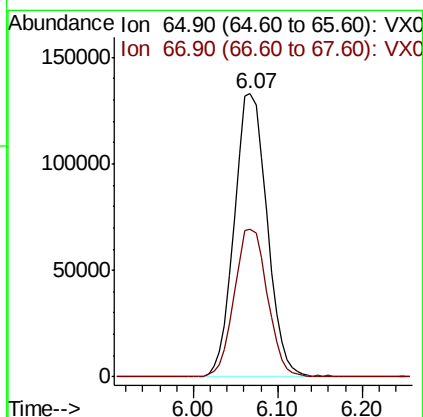
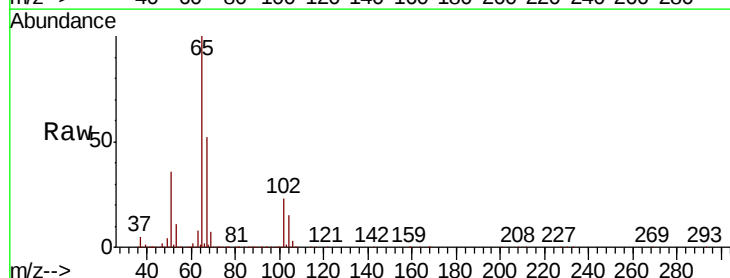
Instrument :
MSVOA_X
ClientSampled :
TN4803-121218

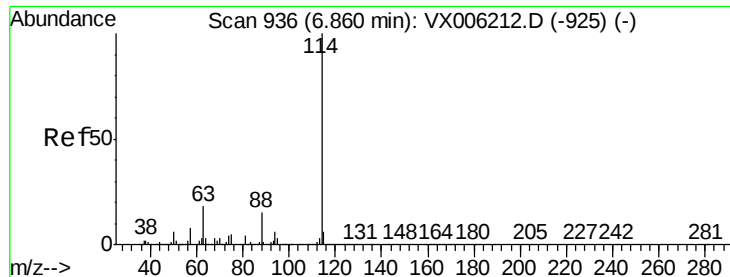
Tot Ion: 56 Resp: 9918
Ion Ratio Lower Upper
56 100
69 205.8 24.5 36.7#
84 158.6 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 53.602 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

Tgt Ion: 65 Resp: 350151
Ion Ratio Lower Upper
65 100
67 52.6 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

TN4803-121218

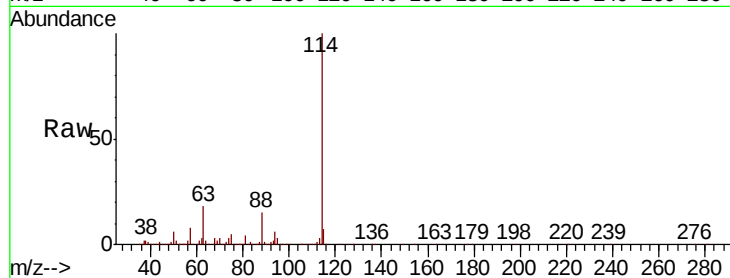
Tot Ion:114 Resp: 1023022

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

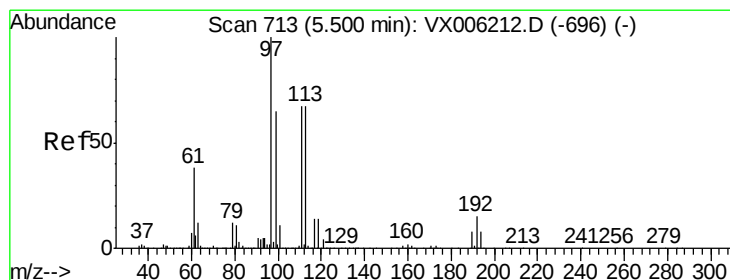
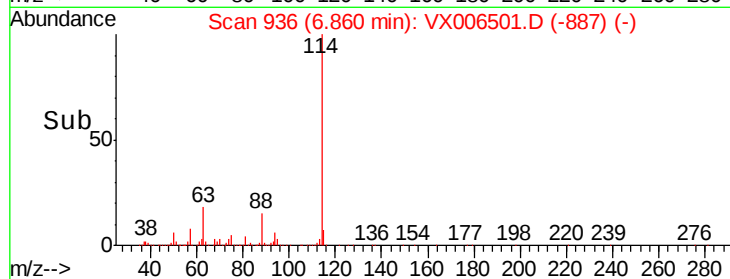
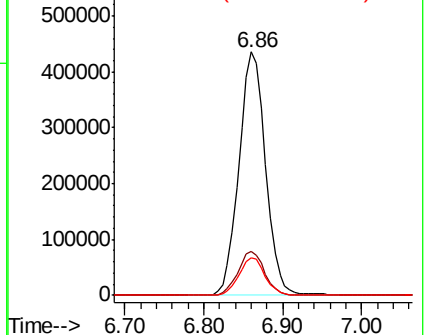
88 15.3 0.0 29.0



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: 46.287 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

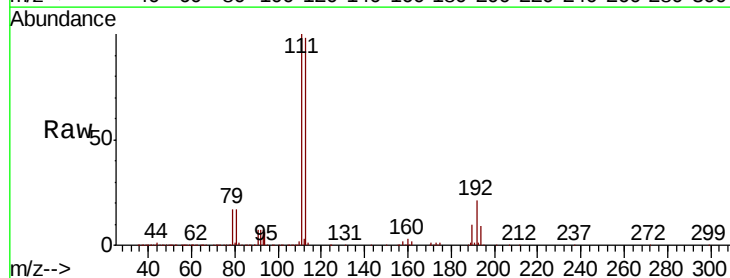
Tgt Ion:113 Resp: 306587

Ion Ratio Lower Upper

113 100

111 102.7 81.1 121.7

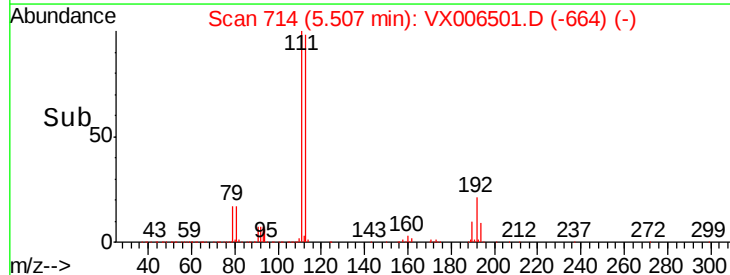
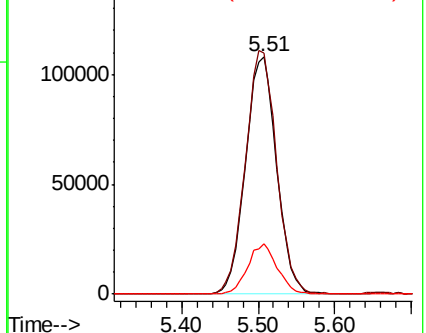
192 20.3 18.2 27.2

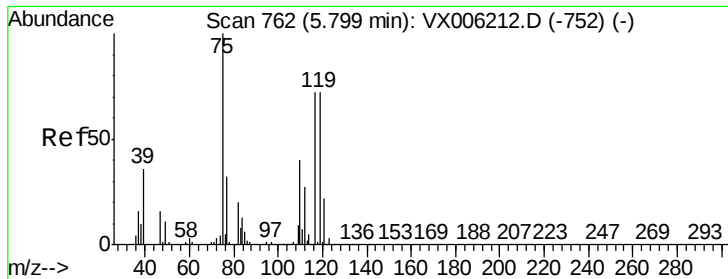


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.012 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

TN4803-121218

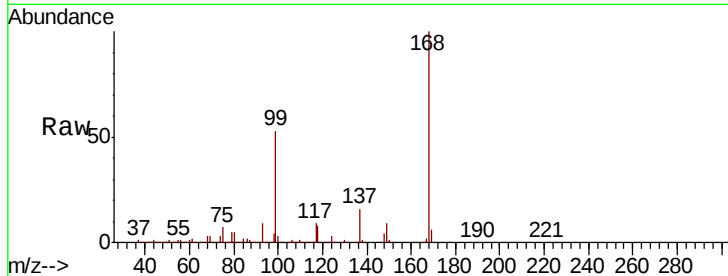
Tot Ion: 75 Resp: 43175

Ion Ratio Lower Upper

75 100

110 11.1 20.4 61.3#

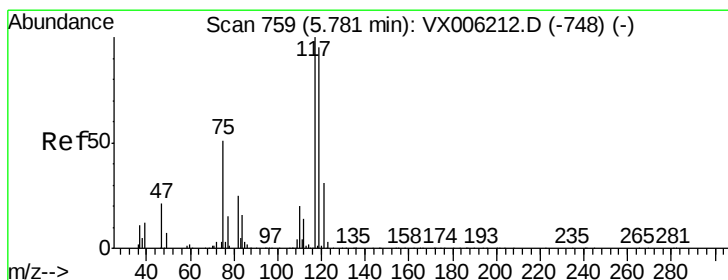
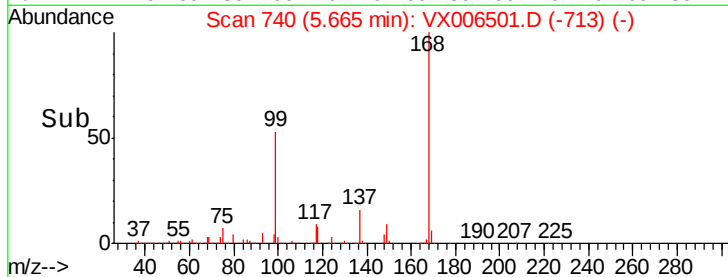
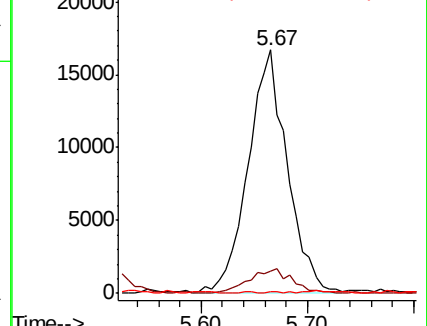
77 0.4 24.9 37.3#



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: 5.899 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

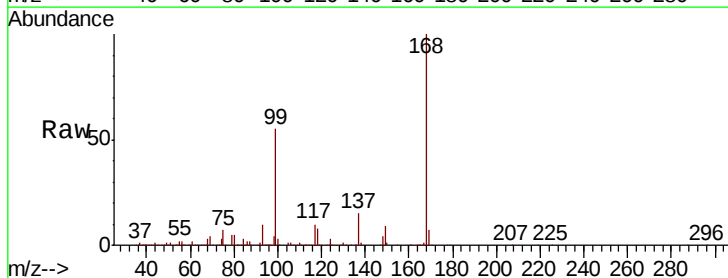
Tgt Ion:117 Resp: 59784

Ion Ratio Lower Upper

117 100

119 4.2 75.8 113.8#

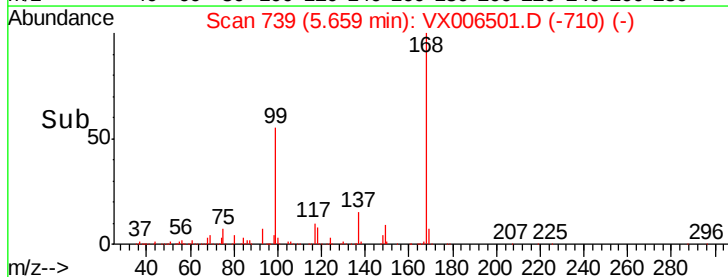
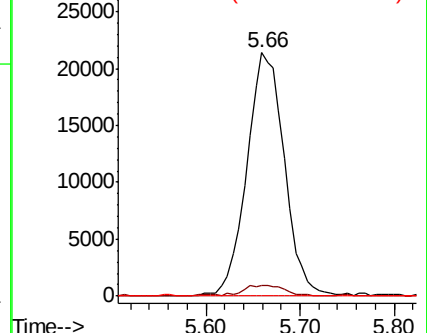
121 0.0 24.6 37.0#

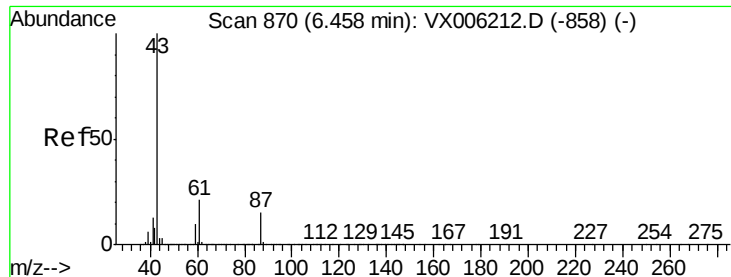


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.795 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

TN4803-121218

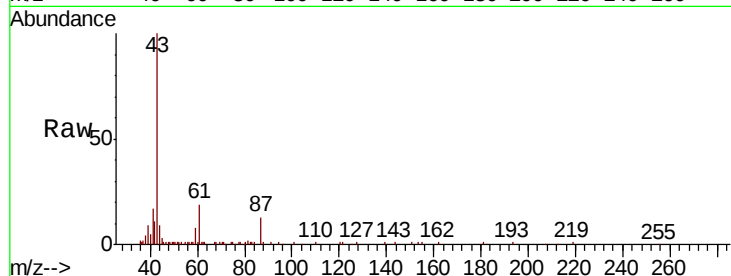
Tot Ion: 43 Resp: 28869

Ion Ratio Lower Upper

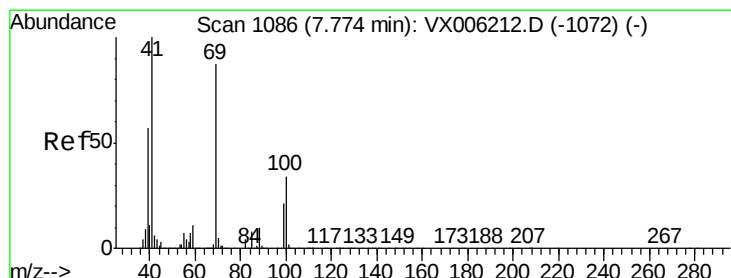
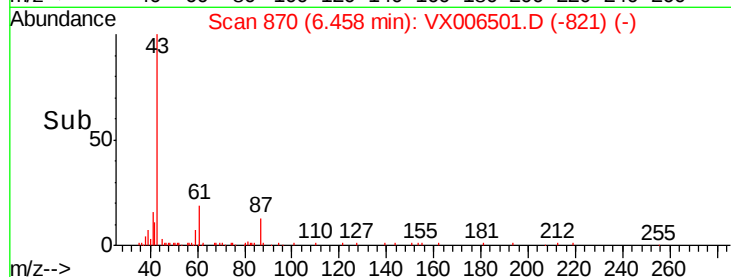
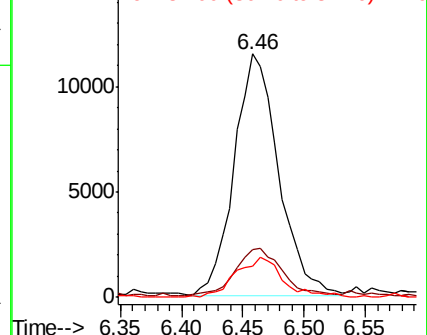
43 100

61 21.4 16.8 25.2

87 17.6 11.9 17.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.043 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

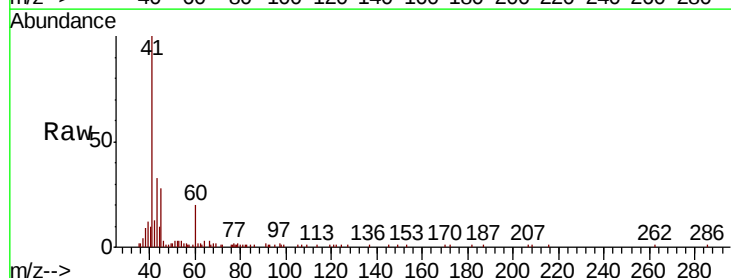
Tgt Ion: 41 Resp: 15986

Ion Ratio Lower Upper

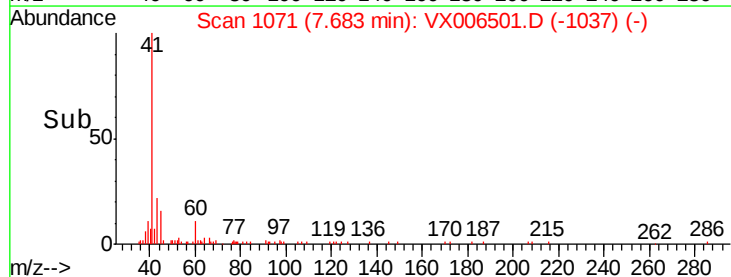
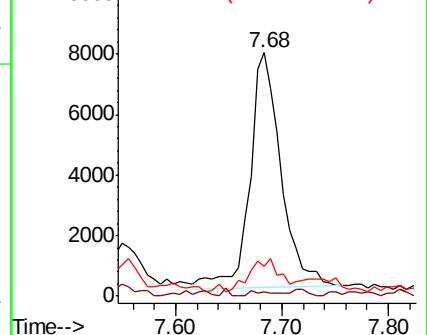
41 100

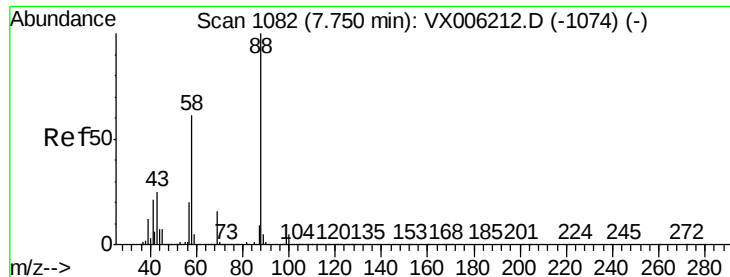
69 1.6 70.3 105.5#

39 0.0 45.3 67.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

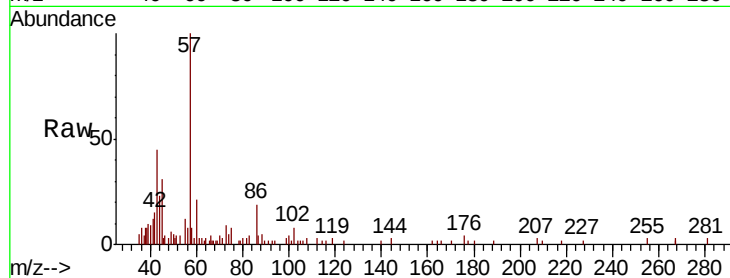




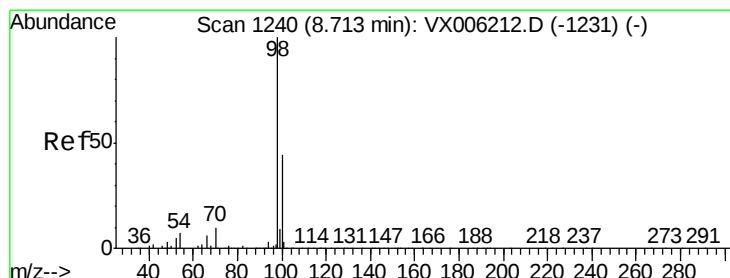
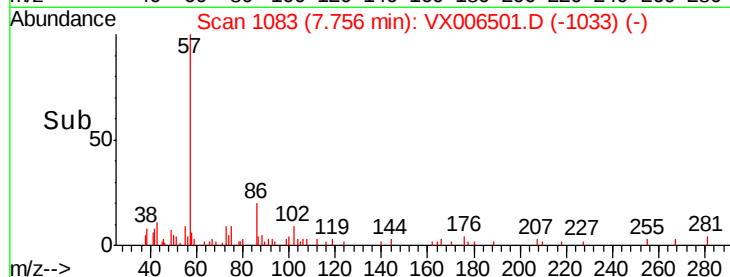
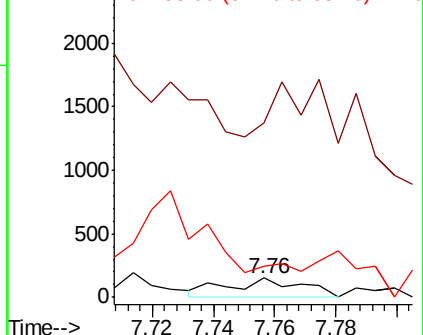
#49
1,4-Dioxane
Concen: 1.327 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

Instrument :
MSVOA_X
ClientSampleId :
TN4803-121218

Tot Ion: 88 Resp: 256
Ion Ratio Lower Upper
88 100
43 0.0 23.2 34.8#
58 0.0 51.4 77.0#

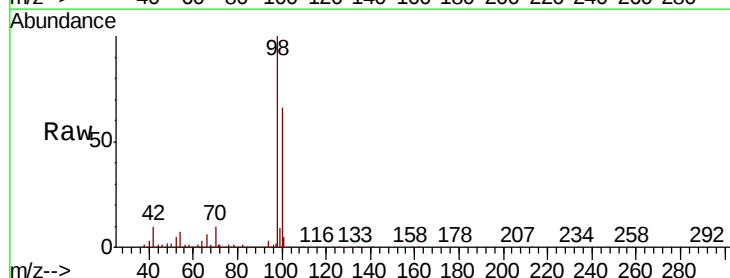


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

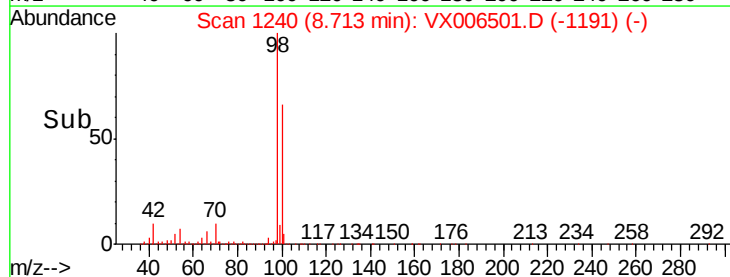
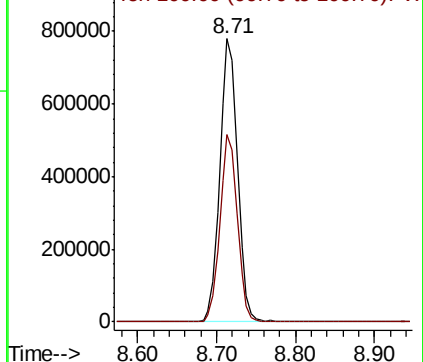


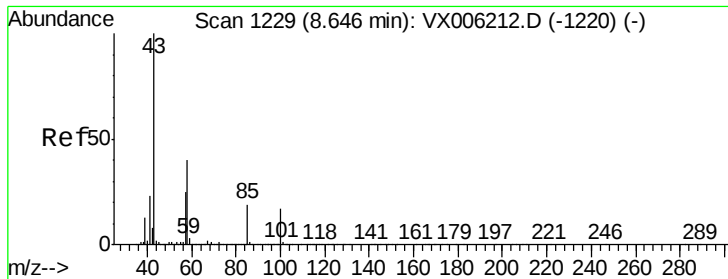
#50
Toluene-d8
Concen: 50.635 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006501.D
Acq: 13 Dec 2018 17:57

Tgt Ion: 98 Resp: 1219963
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.2



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





#51

4-Methyl-2-Pentanone

Concen: 16.070 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

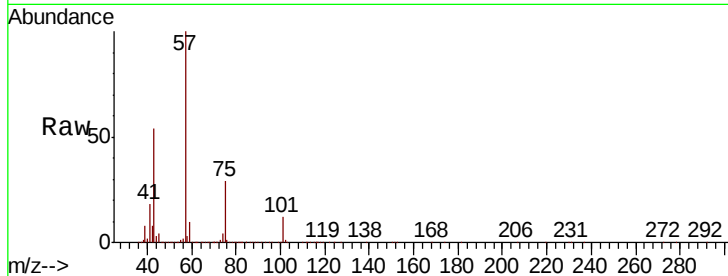
TN4803-121218

Tot Ion: 43 Resp: 150478

Ion Ratio Lower Upper

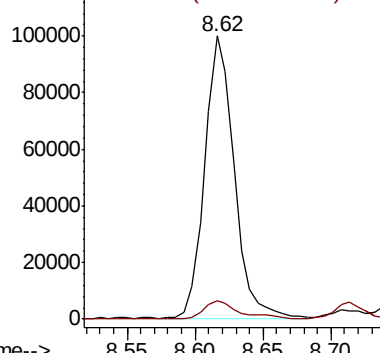
43 100

58 7.6 31.3 46.9#

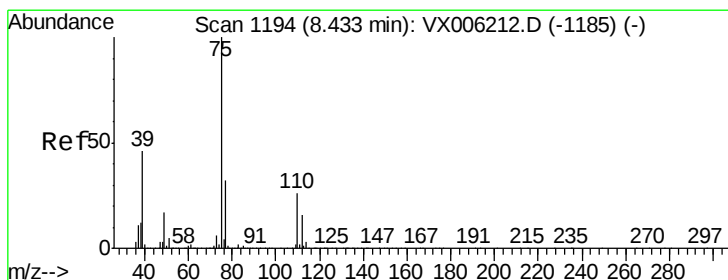
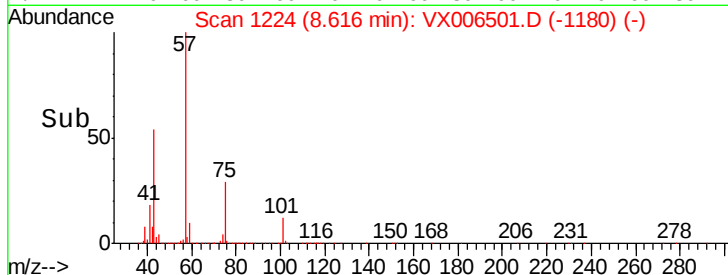


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.193 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

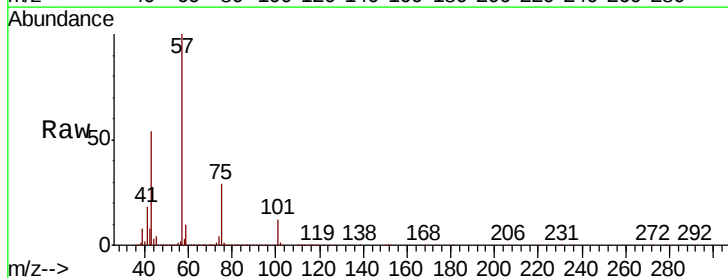
Tgt Ion: 75 Resp: 80115

Ion Ratio Lower Upper

75 100

77 0.4 25.6 38.4#

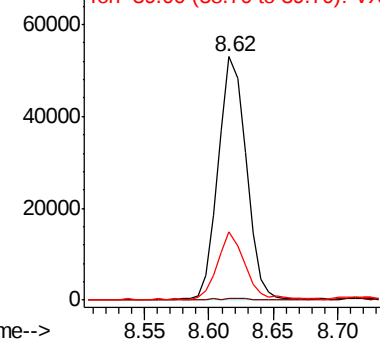
39 27.5 36.5 54.7#



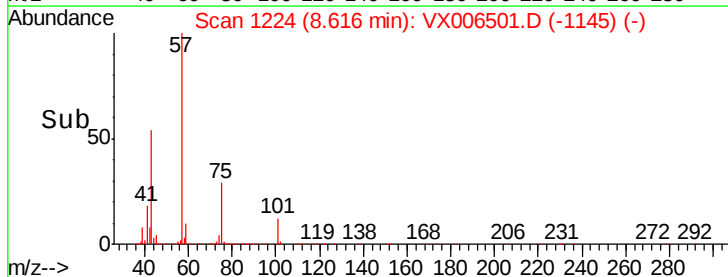
Abundance Ion 74.90 (74.60 to 75.60): VX0

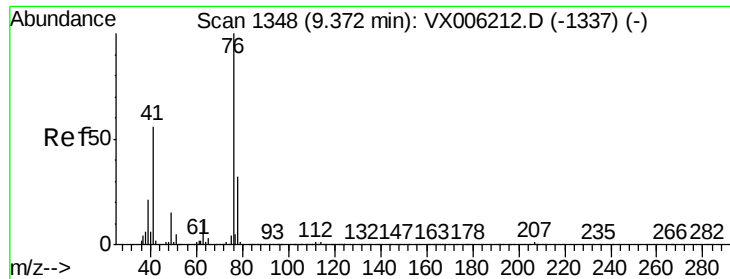
Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->





#57

1,3-Dichloropropane

Concen: 1.729 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

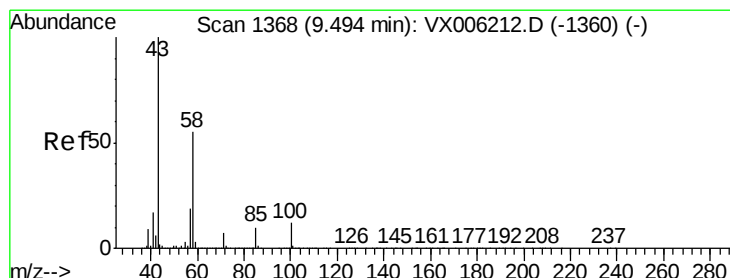
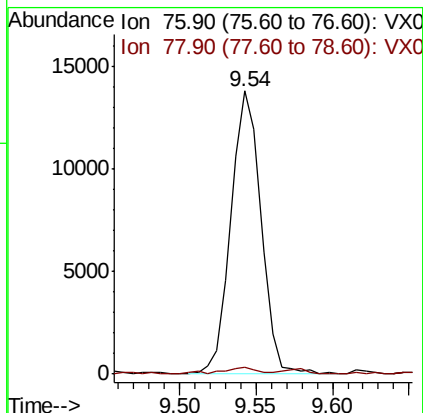
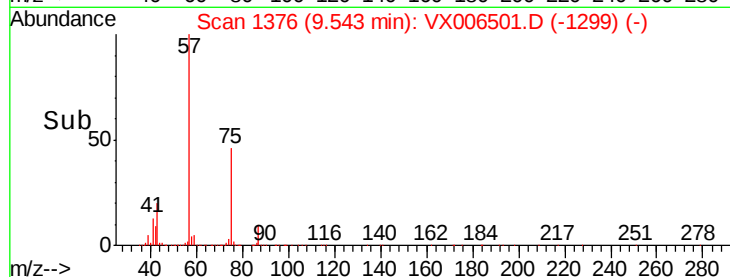
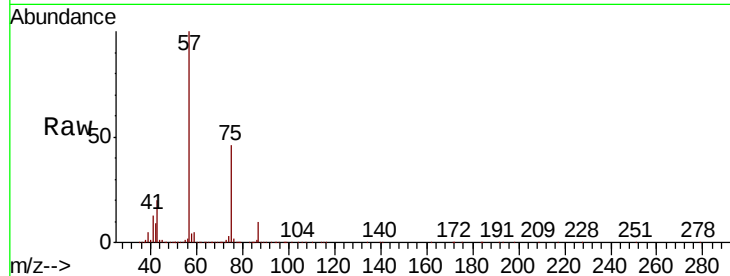
TN4803-121218

Tot Ion: 76 Resp: 18857

Ion Ratio Lower Upper

76 100

78 2.5 26.1 39.1#



#59

2-Hexanone

Concen: 30.456 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006501.D

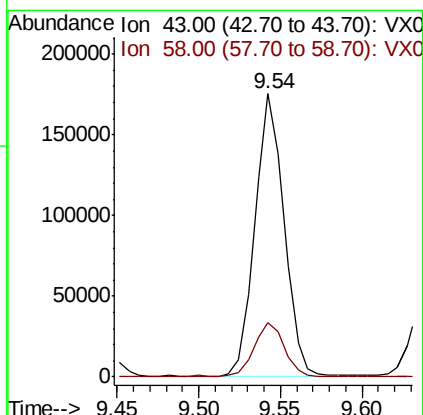
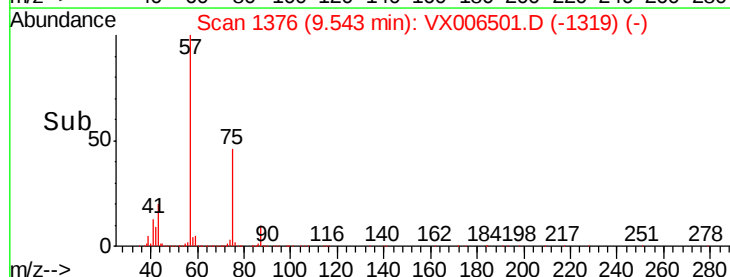
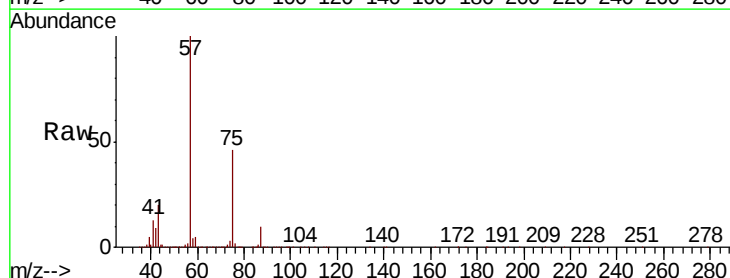
Acq: 13 Dec 2018 17:57

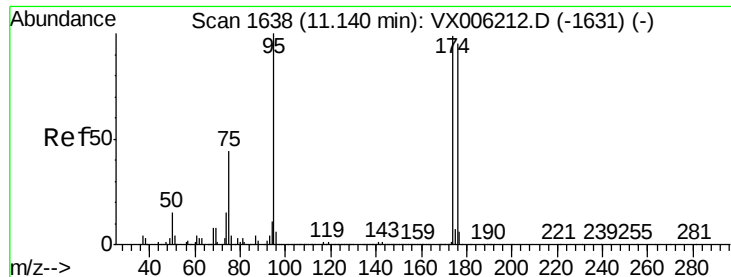
Tgt Ion: 43 Resp: 217884

Ion Ratio Lower Upper

43 100

58 20.4 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 49.939 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

TN4803-121218

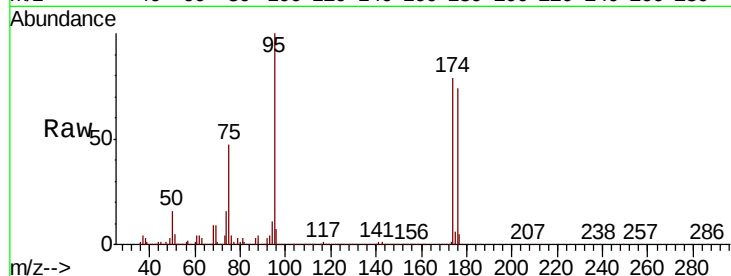
Tot Ion: 95 Resp: 453392

Ion Ratio Lower Upper

95 100

174 84.5 0.0 187.0

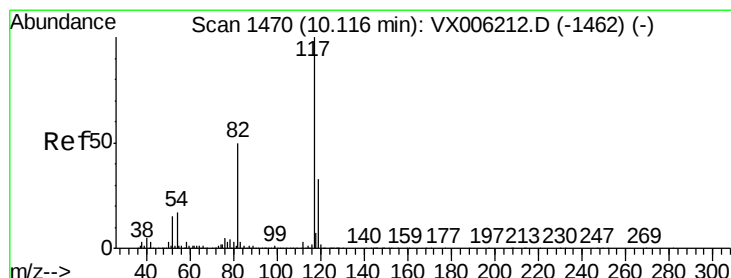
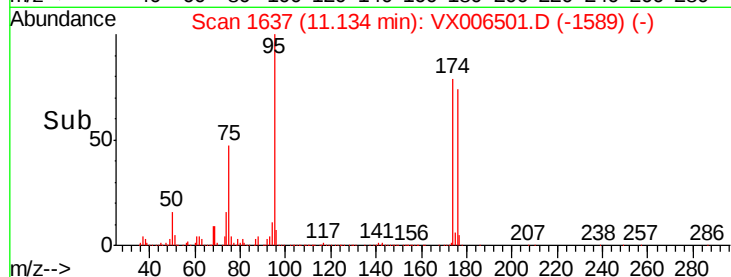
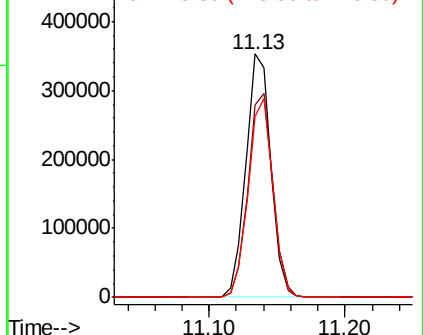
176 81.3 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006501.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006501.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006501.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

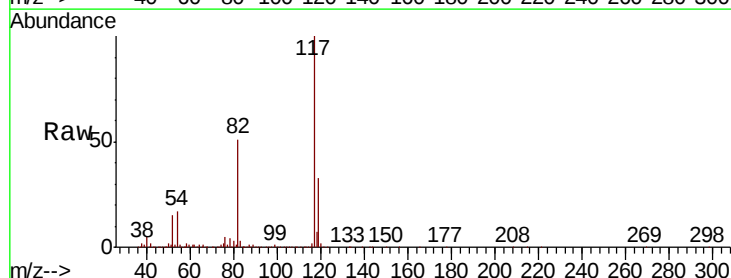
Tgt Ion: 117 Resp: 946418

Ion Ratio Lower Upper

117 100

82 50.7 39.6 59.4

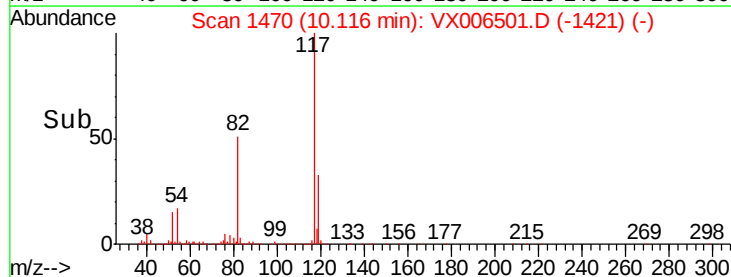
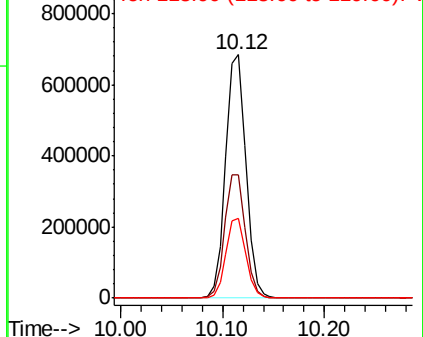
119 32.8 26.3 39.5

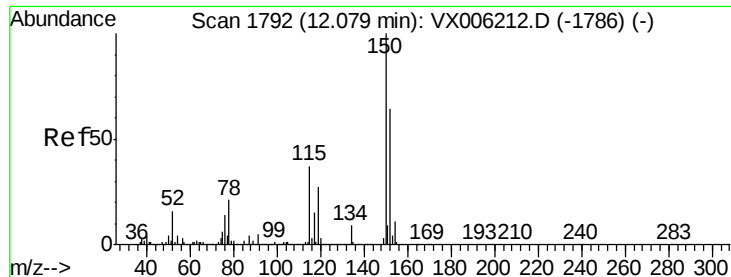


Abundance Ion 116.90 (116.60 to 117.60): VX006501.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006501.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006501.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

TN4803-121218

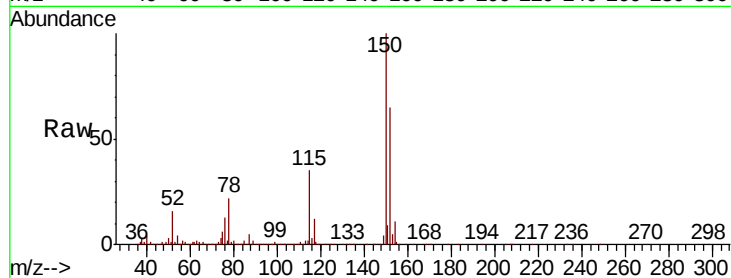
Tot Ion:152 Resp: 453461

Ion Ratio Lower Upper

152 100

115 56.4 39.0 116.9

150 155.5 0.0 345.8

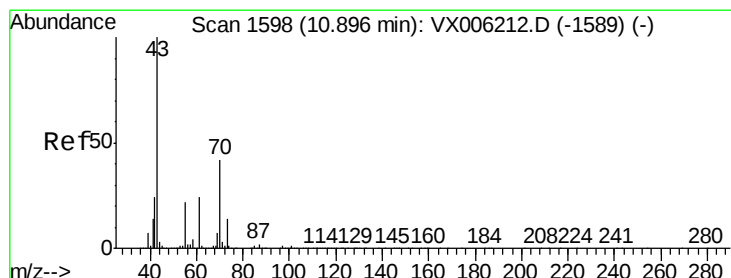
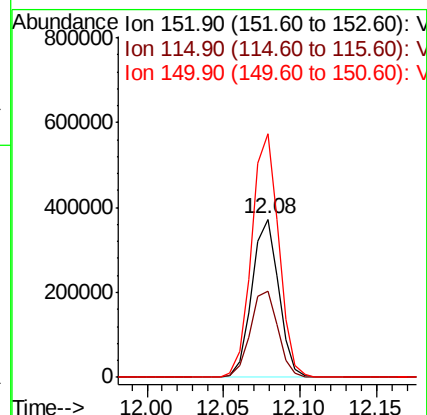
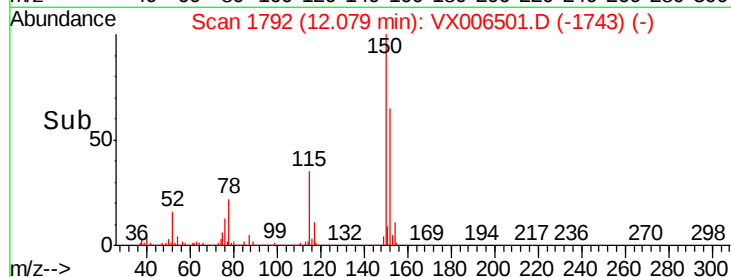


Abundance

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: 1.644 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Tgt Ion: 43 Resp: 22169

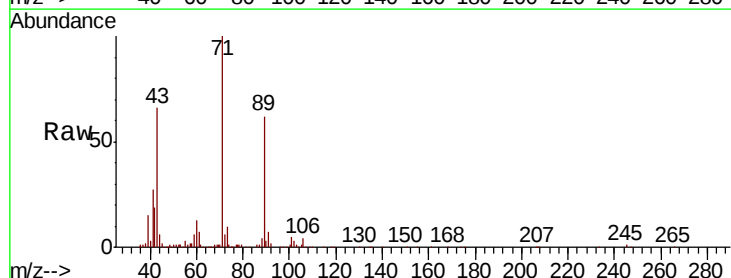
Ion Ratio Lower Upper

43 100

70 3.1 34.1 51.1#

55 8.0 17.8 26.8#

61 10.2 19.7 29.5#



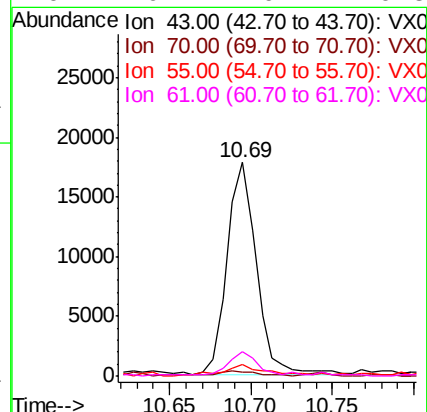
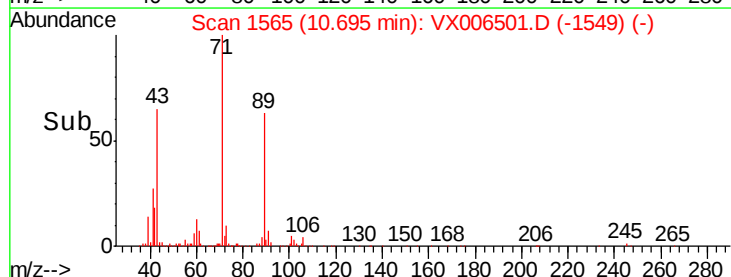
Abundance

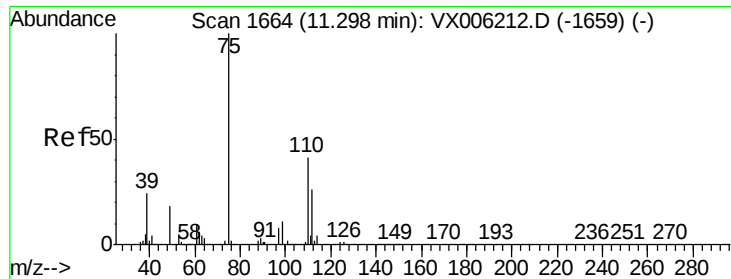
Ion 43.00 (42.70 to 43.70): VX0

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

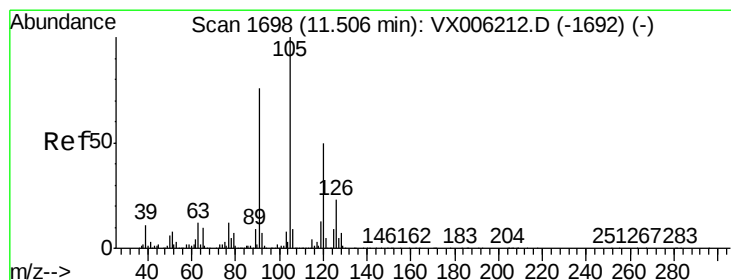
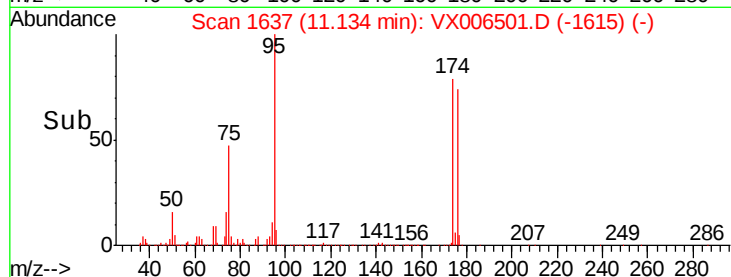
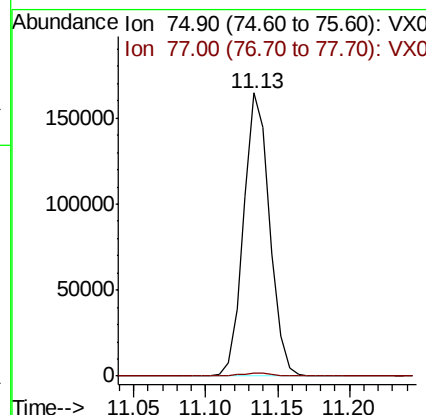
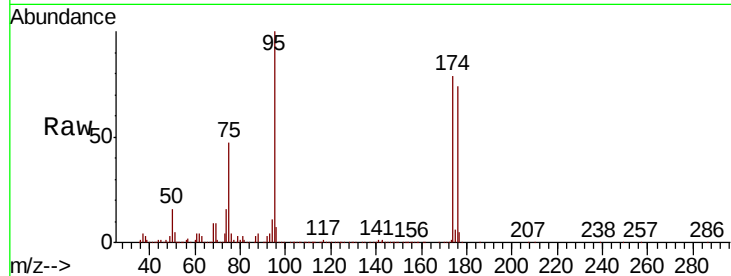




#76
 1,2,3-Trichloropropane
 Concen: 23.455 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006501.D
 Acq: 13 Dec 2018 17:57

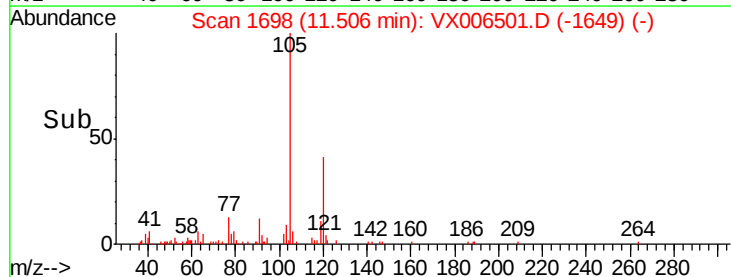
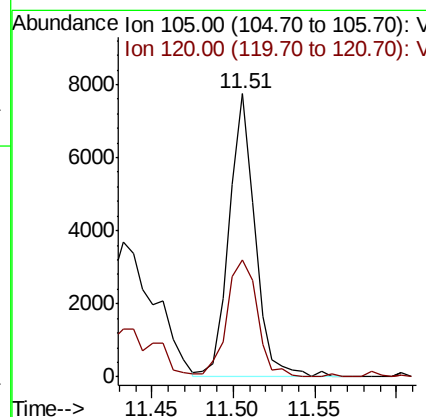
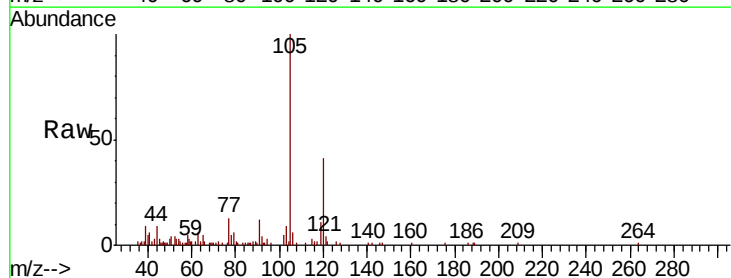
Instrument :
 MSVOA_X
 ClientSampleId :
 TN4803-121218

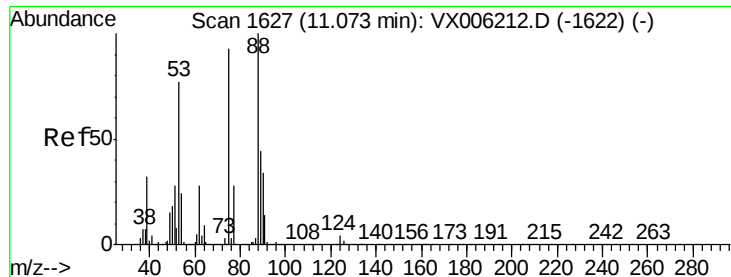
Tot Ion: 75 Resp: 205290
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.9 59.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.328 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006501.D
 Acq: 13 Dec 2018 17:57

Tgt Ion: 105 Resp: 8543
 Ion Ratio Lower Upper
 105 100
 120 49.0 25.4 76.0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.042 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

TN4803-121218

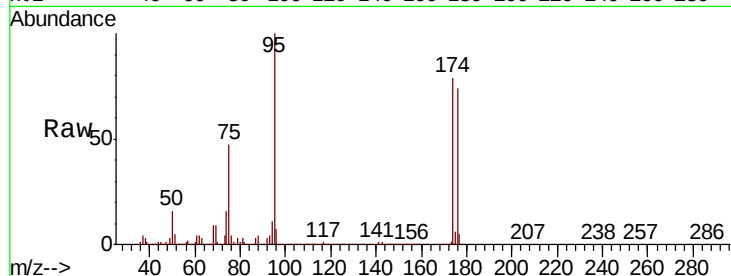
Tot Ion: 75 Resp: 205290

Ion Ratio Lower Upper

75 100

53 0.3 64.4 96.6#

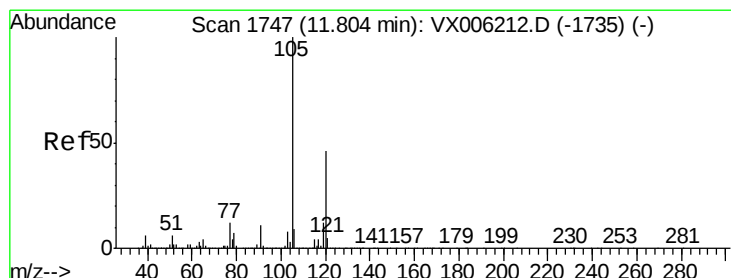
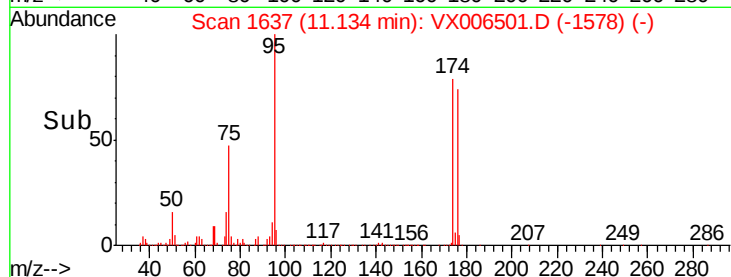
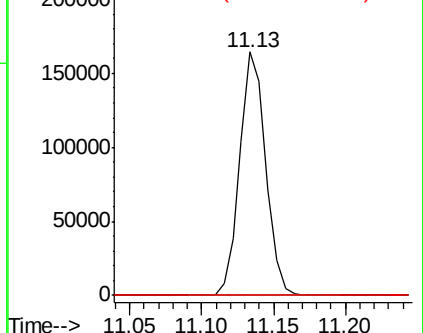
89 0.0 44.2 66.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.477 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX006501.D

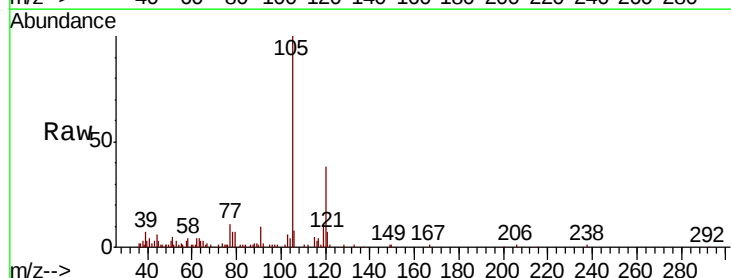
Acq: 13 Dec 2018 17:57

Tgt Ion:105 Resp: 12824

Ion Ratio Lower Upper

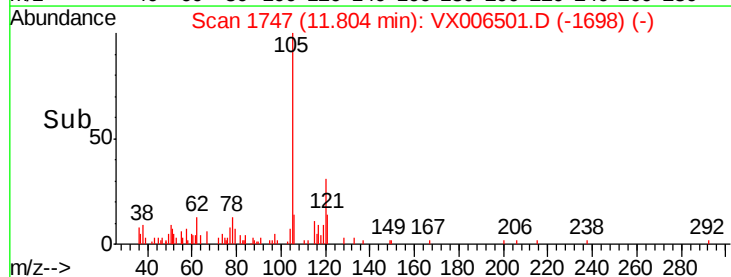
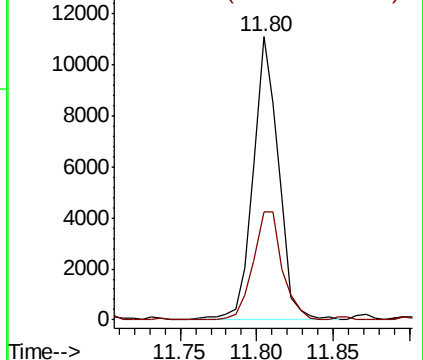
105 100

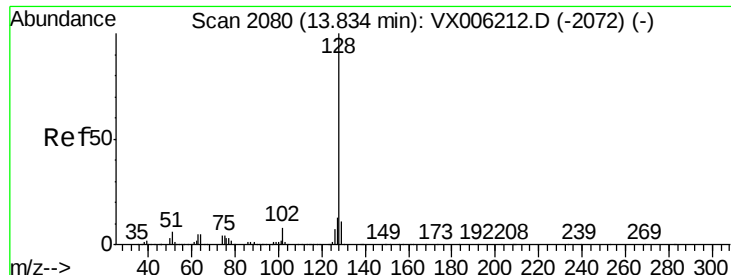
120 44.2 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.750 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006501.D

Acq: 13 Dec 2018 17:57

Instrument :

MSVOA_X

ClientSampleId :

TN4803-121218

Tot Ion:128 Resp: 60944

Ion Ratio Lower Upper

128 100

127 14.2 10.2 15.4

129 11.0 8.9 13.3

