

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121318\
 Data File : VX006504.D
 Acq On : 13 Dec 2018 19:17
 Operator : JC/MD
 Sample : J6376-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TEST-PIT-1

Quant Time: Dec 14 00:19:09 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	5.66	168	632234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1009411	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	948720	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	461199	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	342271	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	
35) Dibromofluoromethane	5.50	113	303515	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
50) Toluene-d8	8.71	98	1207775	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.13	95	453058	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	

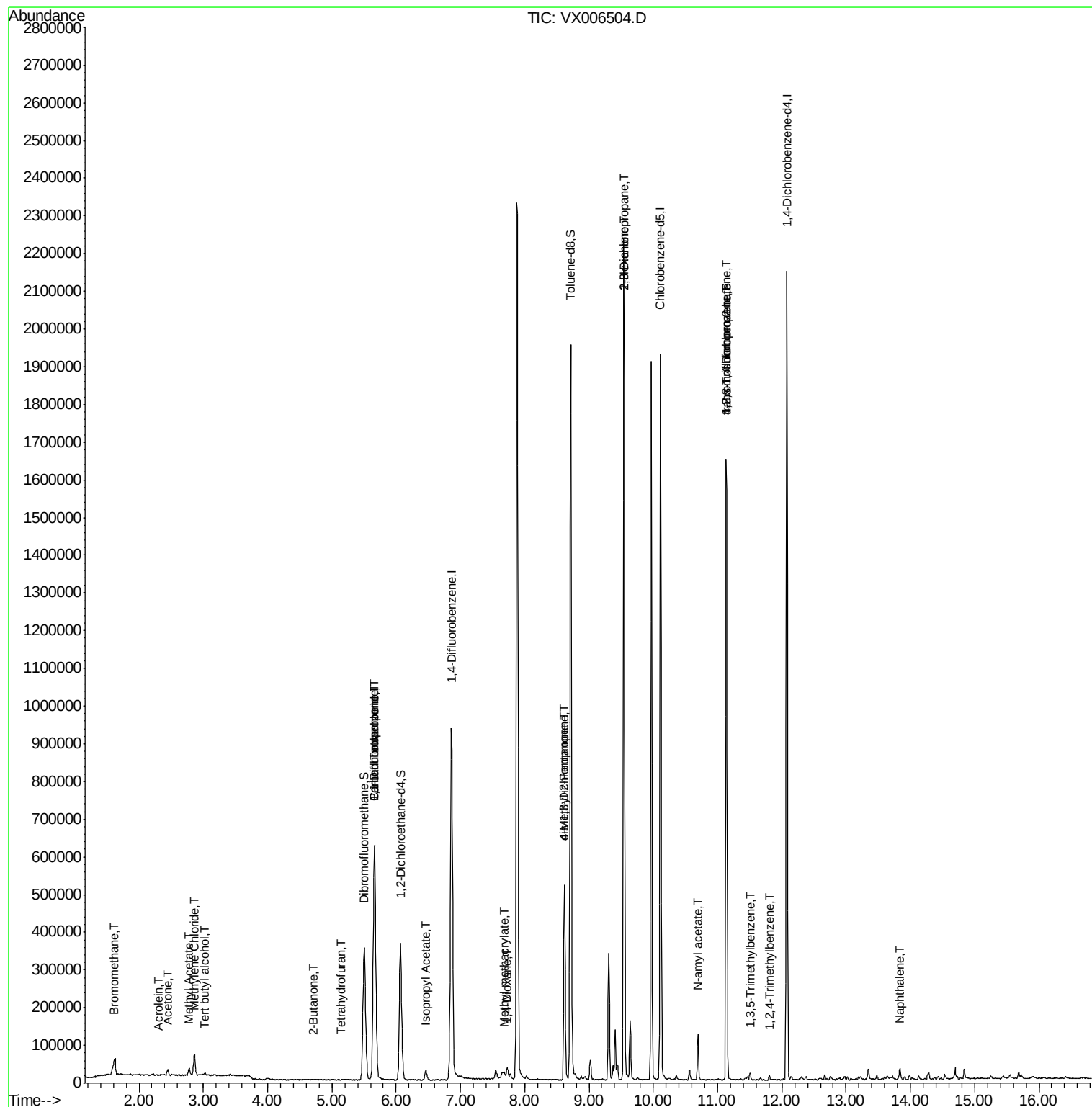
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	1159	0.244	ug/l #	68
11) Tert butyl alcohol	3.03	59	3333	1.888	ug/l	95
13) Acrolein	2.29	56	554	0.574	ug/l #	76
16) Acetone	2.45	43	15885	5.245	ug/l	93
18) Methyl Acetate	2.78	43	24591	2.428	ug/l	96
20) Methylene Chloride	2.86	84	27640	4.288	ug/l #	86
25) 2-Butanone	4.71	43	2315	0.536	ug/l #	63
29) Tetrahydrofuran	5.15	42	2220	0.739	ug/l #	41
36) 1,1-Dichloropropene	5.67	75	41575	4.891	ug/l #	39
38) Carbon Tetrachloride	5.67	117	59281	5.928	ug/l #	17
43) Isopropyl Acetate	6.46	43	32632	2.056	ug/l	97
48) Methyl methacrylate	7.68	41	17238	2.233	ug/l #	13
49) 1,4-Dioxane	7.73	88	95	0.499	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	163766	17.725	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	89940	8.184	ug/l #	57
57) 1,3-Dichloropropane	9.54	76	19894	1.849	ug/l #	44
59) 2-Hexanone	9.54	43	240352	34.050	ug/l #	52
74) N-amyl acetate	10.69	43	25640	1.869	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	208602	23.433	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	9398	0.355	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	208602	54.992	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	6664	0.244	ug/l	99
95) Naphthalene	13.83	128	20081	0.567	ug/l	98

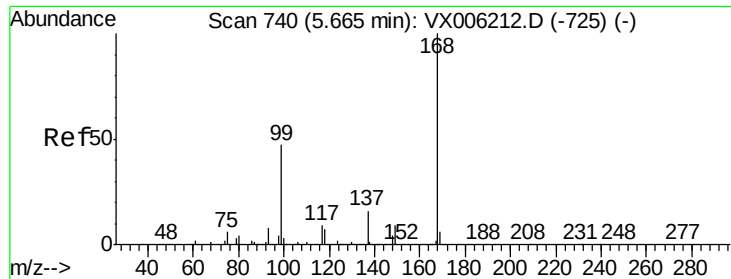
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 14 00:19:09 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: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampled :

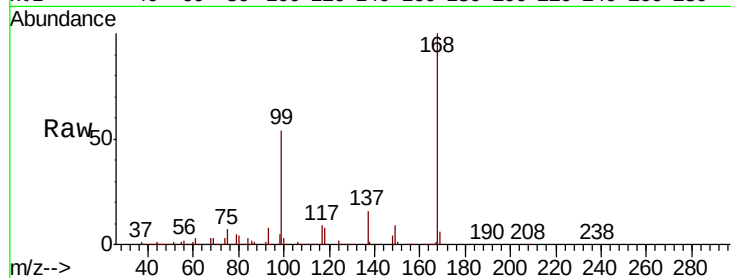
TEST-PIT-1

Tot Ion:168 Resp: 632234

Ion Ratio Lower Upper

168 100

99 53.9 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

250000

200000

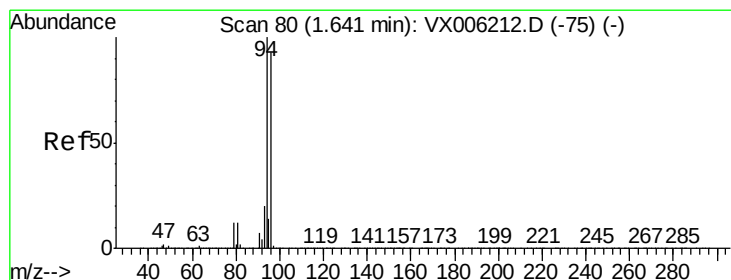
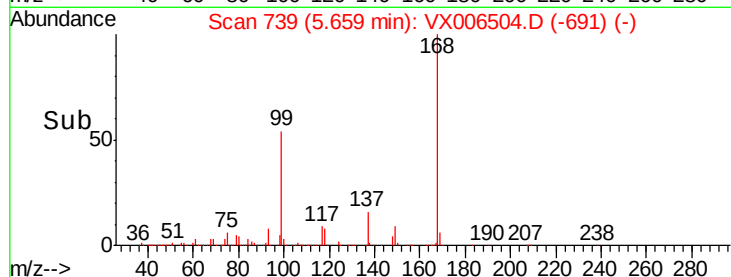
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.244 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.02 min

Lab File: VX006504.D

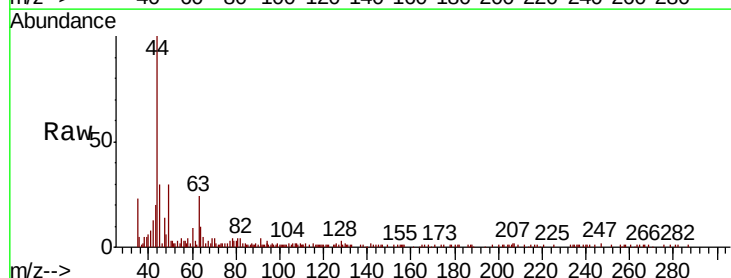
Acq: 13 Dec 2018 19:17

Tgt Ion: 94 Resp: 1159

Ion Ratio Lower Upper

94 100

96 62.1 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

600

500

400

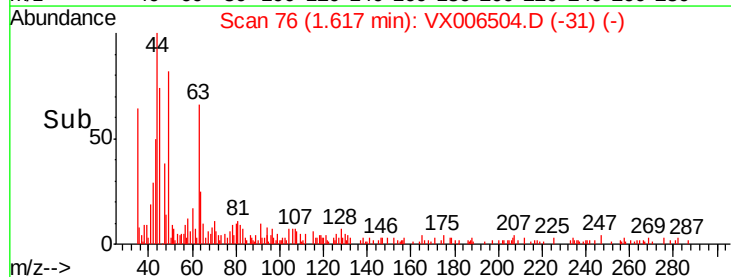
300

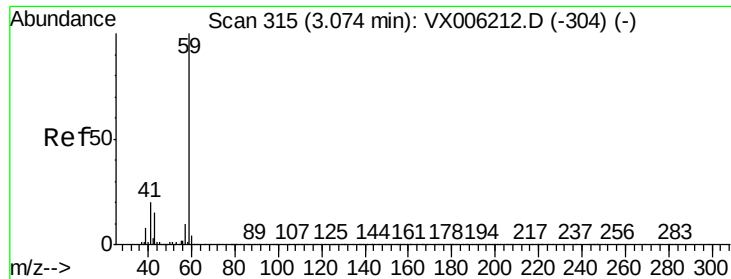
200

100

0

Time--> 1.55 1.60 1.65



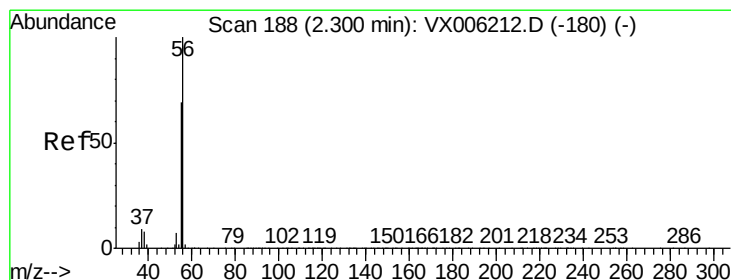
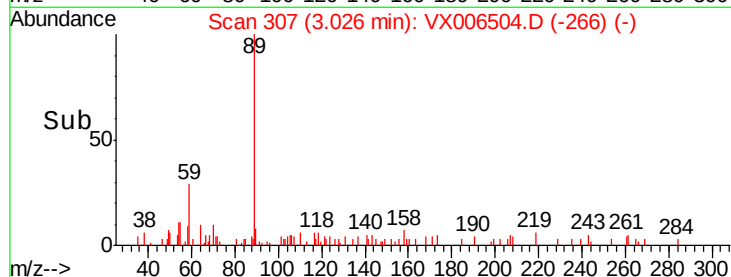
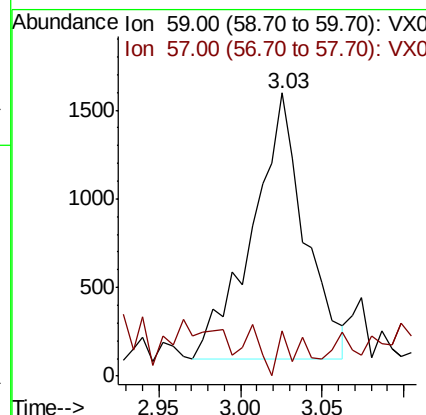
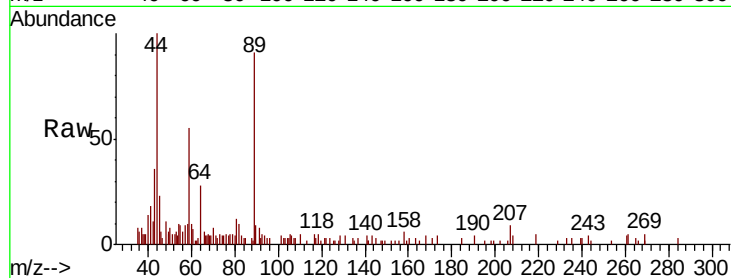


#11

Tert butyl alcohol
Concen: 1.888 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Instrument :
MSVOA_X
ClientSampleId :
TEST-PIT-1

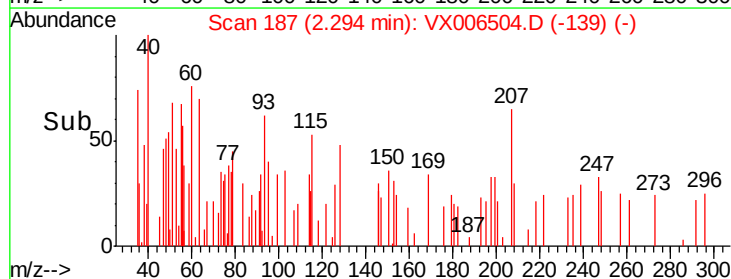
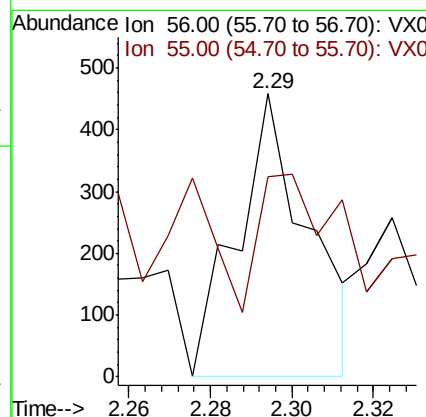
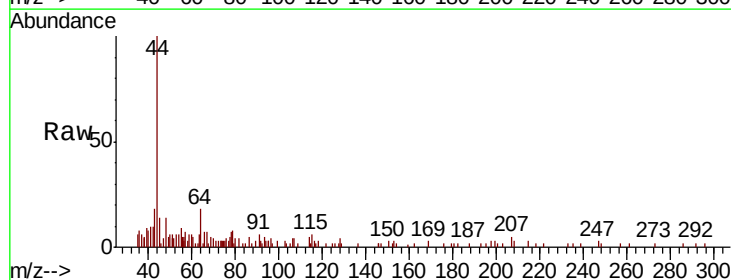
Tot Ion: 59 Resp: 3333
Ion Ratio Lower Upper
59 100
57 8.4 8.2 12.2

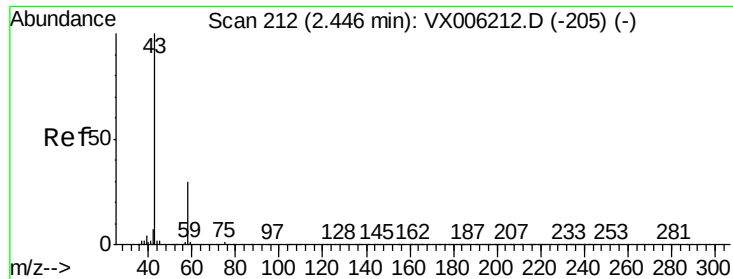


#13

Acrolein
Concen: 0.574 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.01 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Tgt Ion: 56 Resp: 554
Ion Ratio Lower Upper
56 100
55 52.0 57.8 86.6#

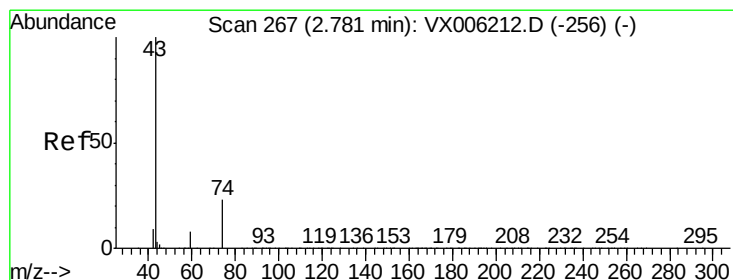
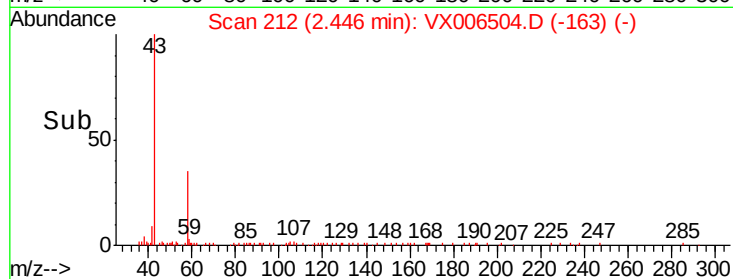
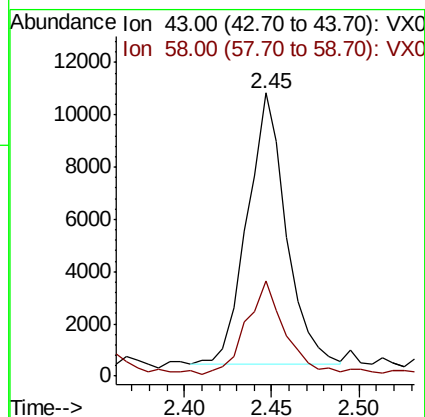
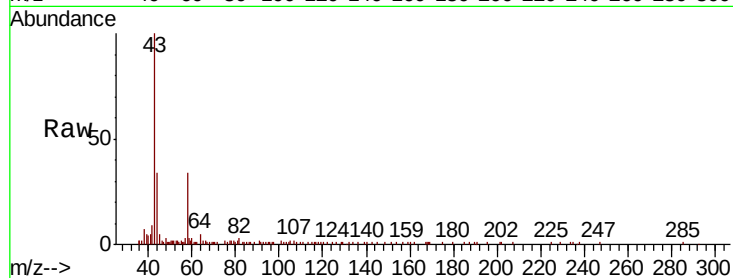




#16
Acetone
Concen: 5.245 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

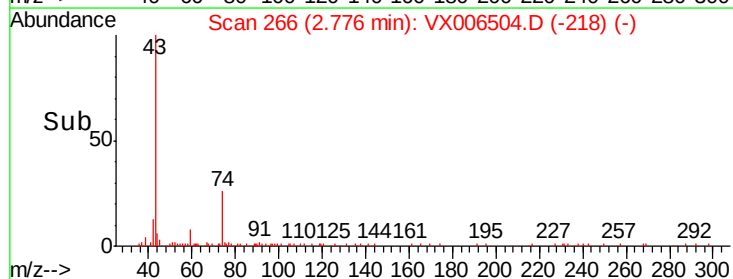
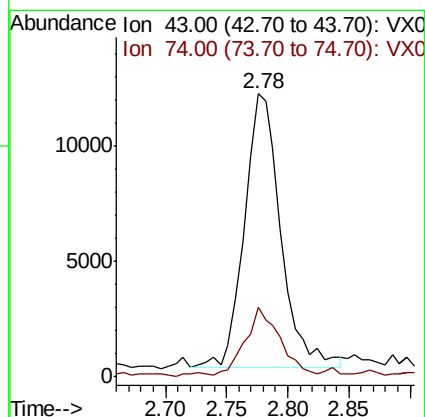
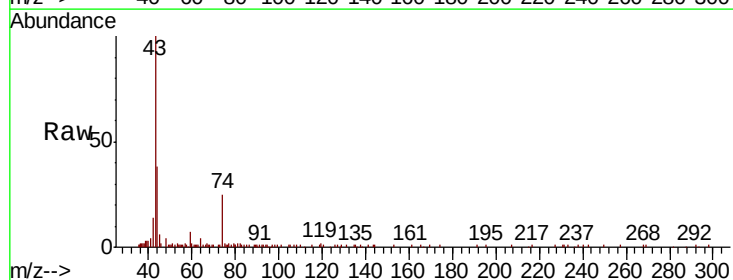
Instrument :
MSVOA_X
ClientSampleId :
TEST-PIT-1

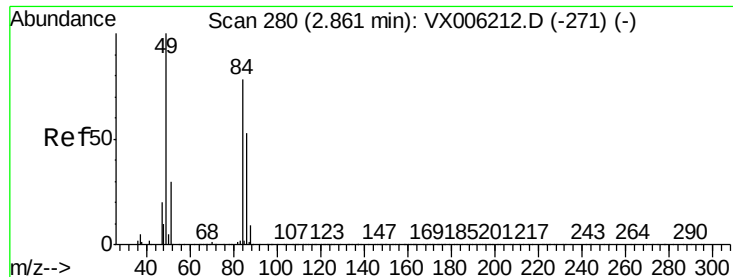
Tot Ion: 43 Resp: 15885
Ion Ratio Lower Upper
43 100
58 33.7 24.0 36.0



#18
Methyl Acetate
Concen: 2.428 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Tgt Ion: 43 Resp: 24591
Ion Ratio Lower Upper
43 100
74 24.5 17.9 26.9

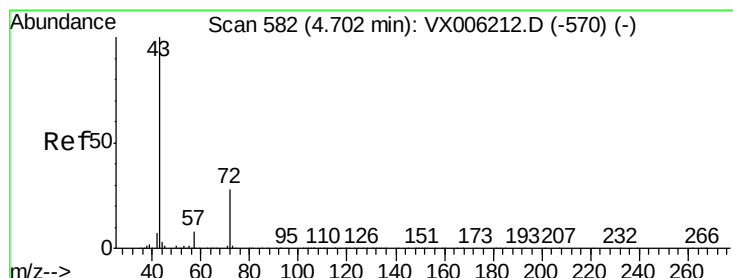
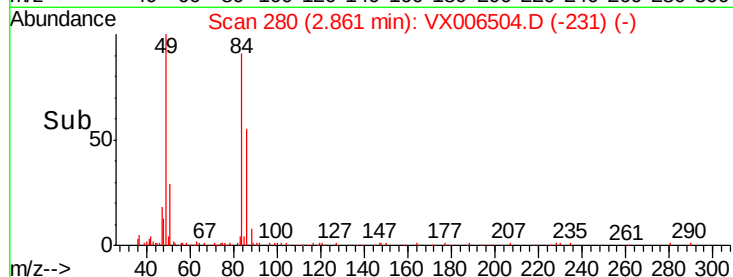
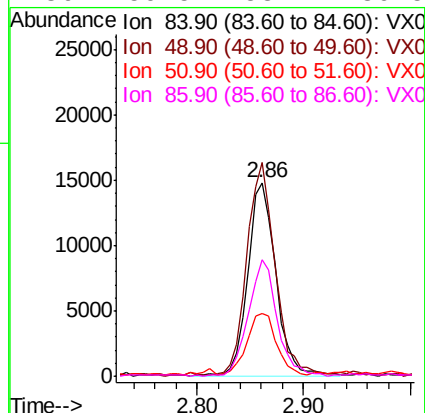
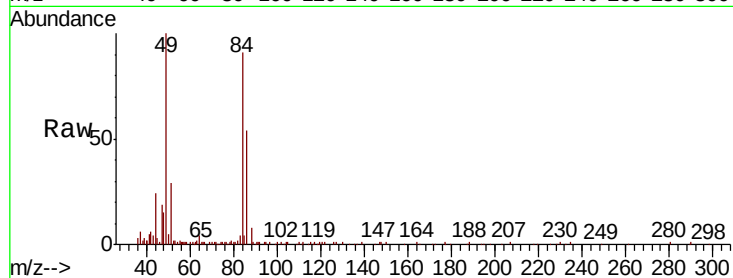




#20
Methylene Chloride
Concen: 4.288 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

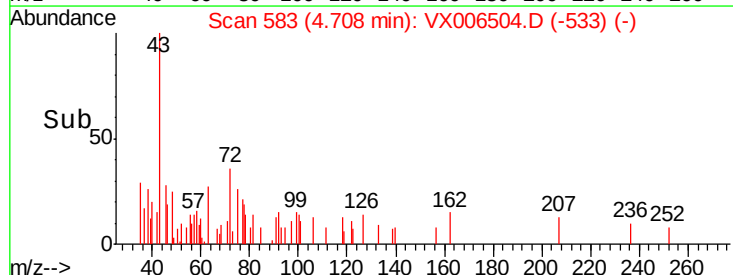
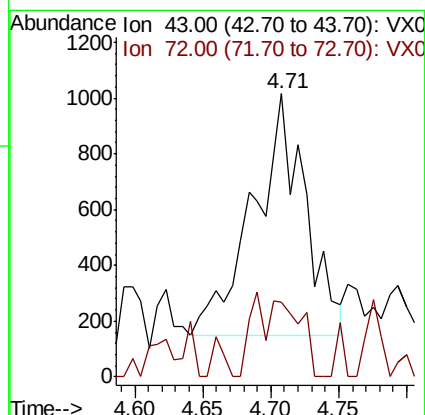
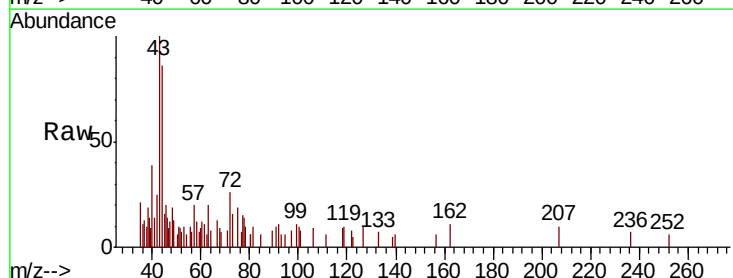
Instrument :
MSVOA_X
ClientSampleId :
TEST-PIT-1

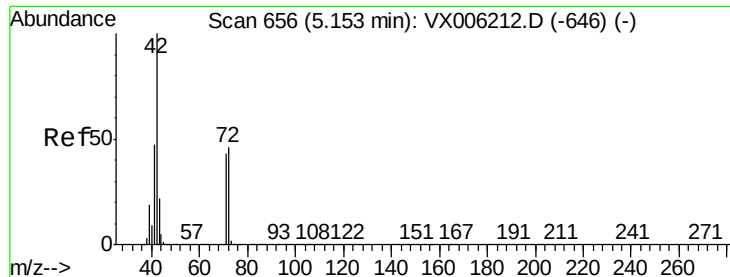
Tot Ion: 84 Resp: 27640
Ion Ratio Lower Upper
84 100
49 108.4 102.2 153.4
51 30.3 31.1 46.7#
86 59.5 53.7 80.5



#25
2-Butanone
Concen: 0.536 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Tgt Ion: 43 Resp: 2315
Ion Ratio Lower Upper
43 100
72 8.4 22.6 33.8#





#29

Tetrahydrofuran

Concen: 0.739 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampled :

TEST-PIT-1

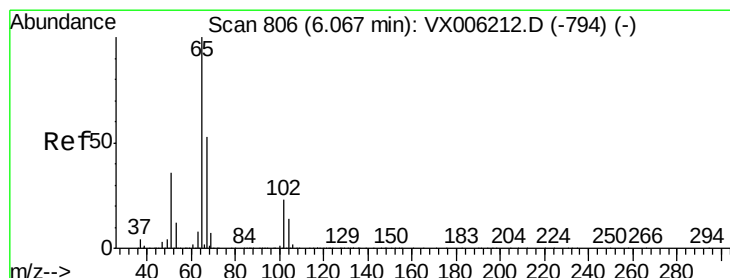
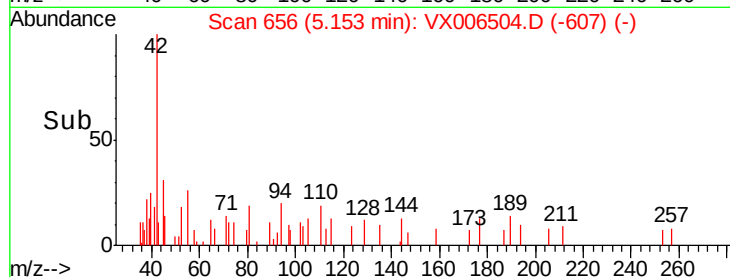
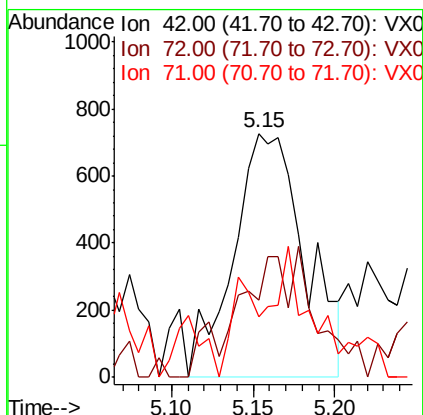
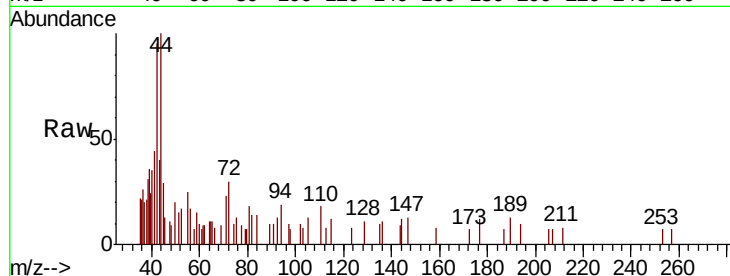
Tot Ion: 42 Resp: 2220

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.8#

71 13.9 35.2 52.8#



#33

1,2-Dichloroethane-d4

Concen: 53.032 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006504.D

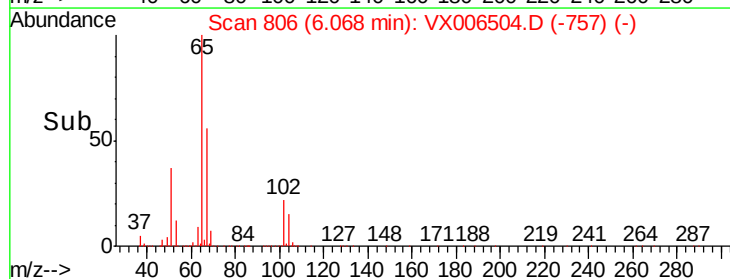
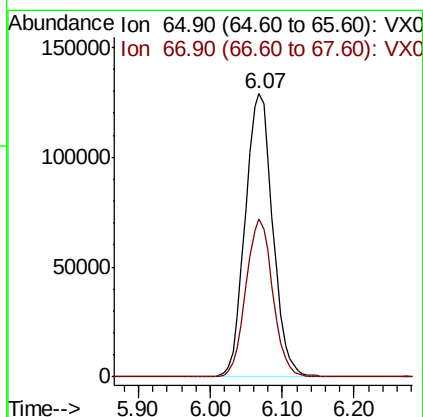
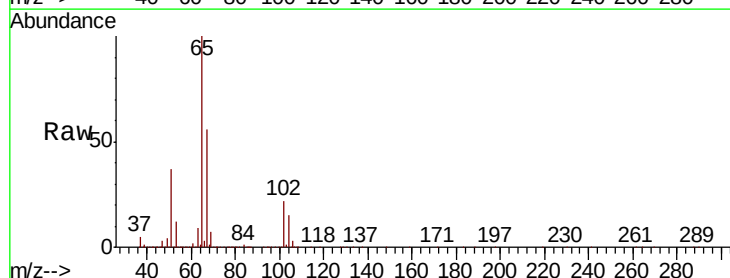
Acq: 13 Dec 2018 19:17

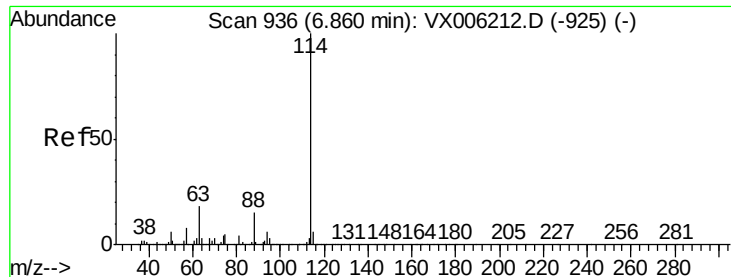
Tgt Ion: 65 Resp: 342271

Ion Ratio Lower Upper

65 100

67 54.2 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: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

TEST-PIT-1

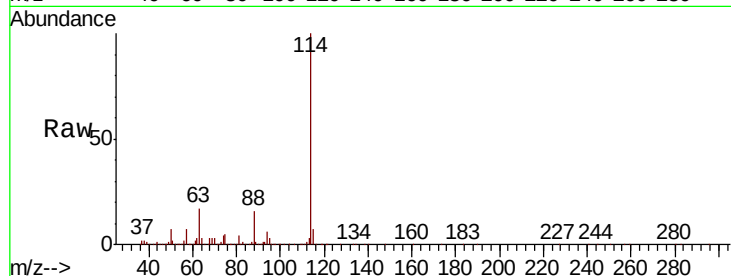
Tot Ion:114 Resp: 1009411

Ion Ratio Lower Upper

114 100

63 17.2 0.0 36.6

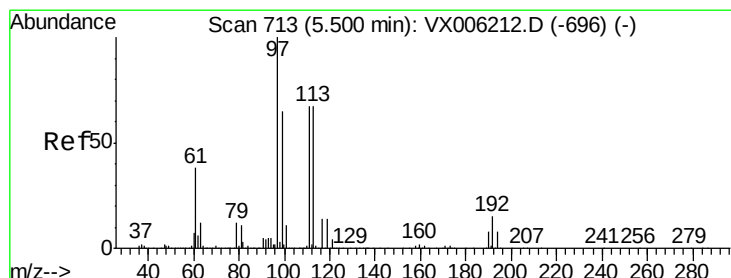
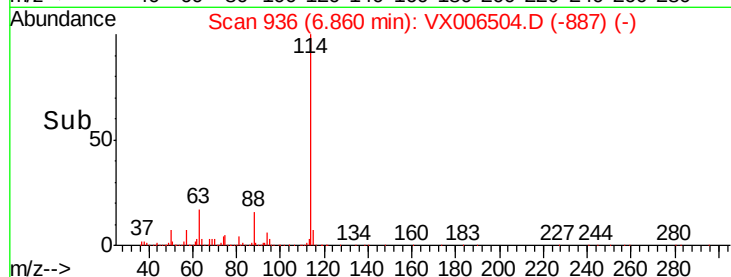
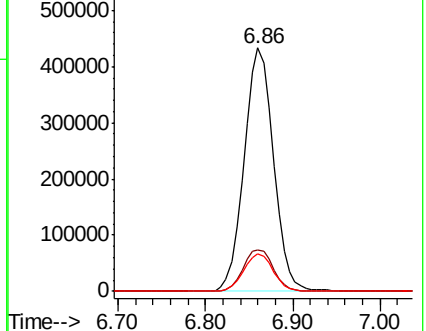
88 15.5 0.0 29.0



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: 46.441 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

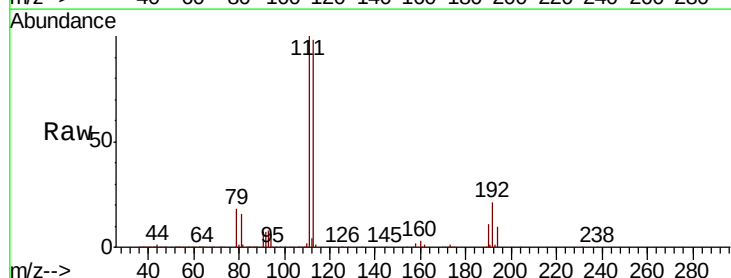
Tgt Ion:113 Resp: 303515

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

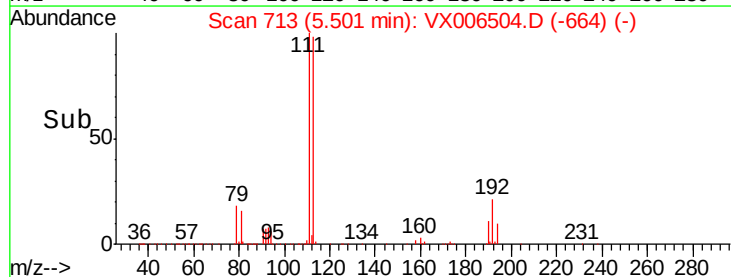
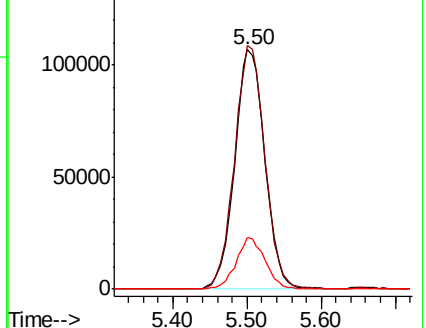
192 20.5 18.2 27.2

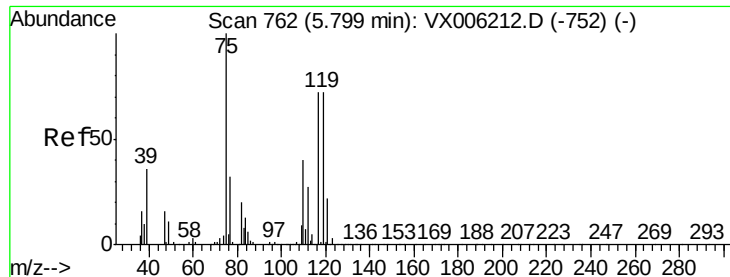


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

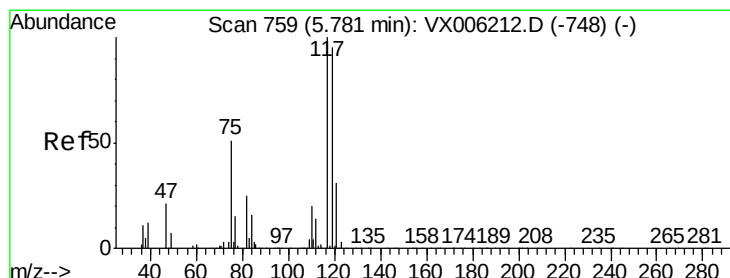
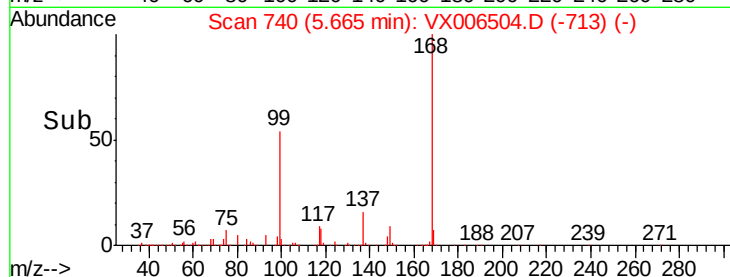
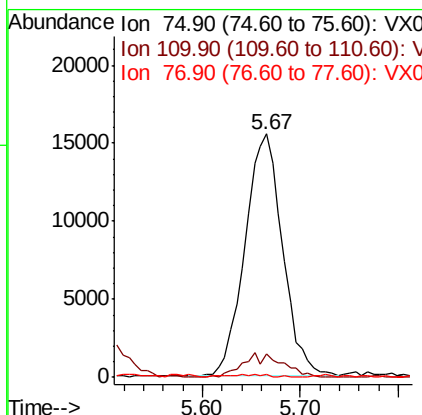
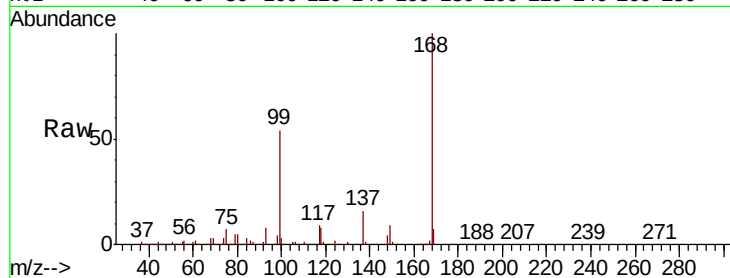




#36
 1,1-Dichloropropene
 Concen: 4.891 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006504.D
 Acq: 13 Dec 2018 19:17

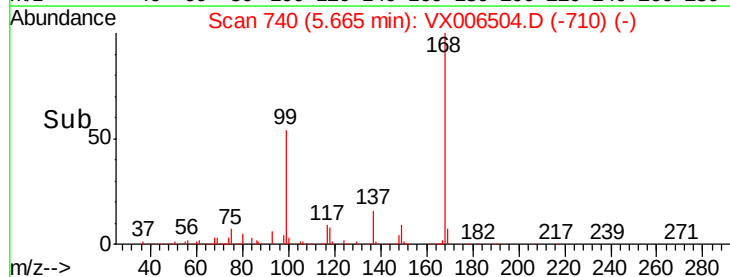
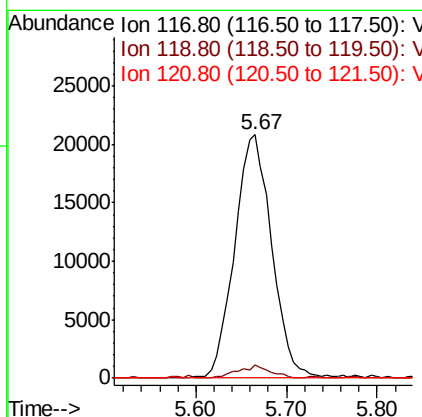
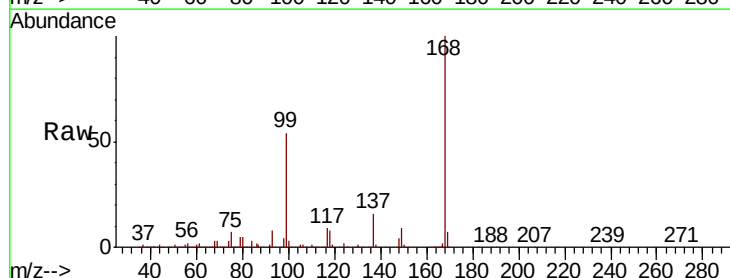
Instrument :
 MSVOA_X
 ClientSampleId :
 TEST-PIT-1

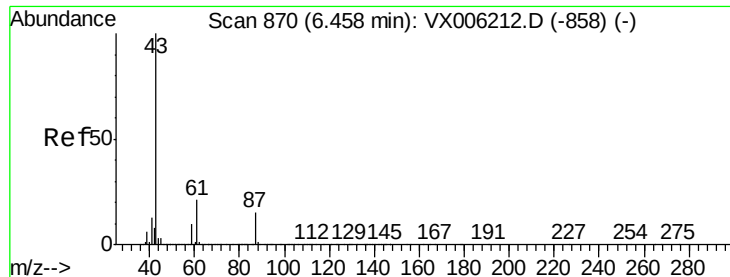
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	20.4	61.3#
77	0.2	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.928 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006504.D
 Acq: 13 Dec 2018 19:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	75.8	113.8#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 2.056 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

TEST-PIT-1

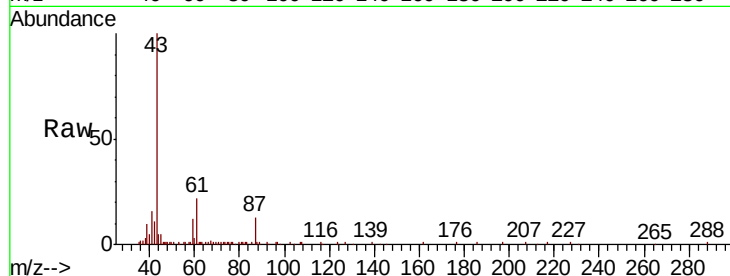
Tot Ion: 43 Resp: 32632

Ion Ratio Lower Upper

43 100

61 21.8 16.8 25.2

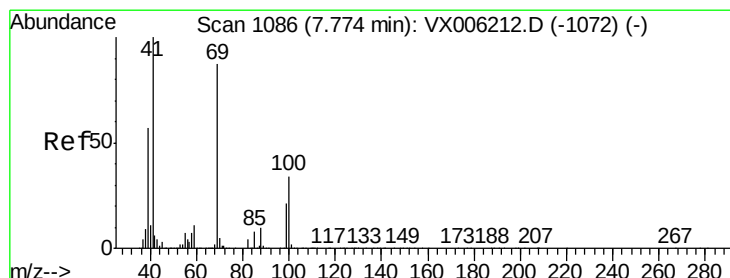
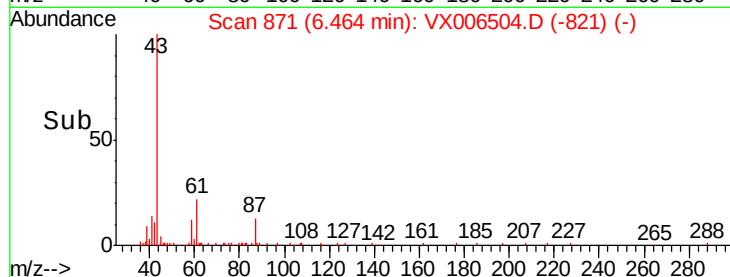
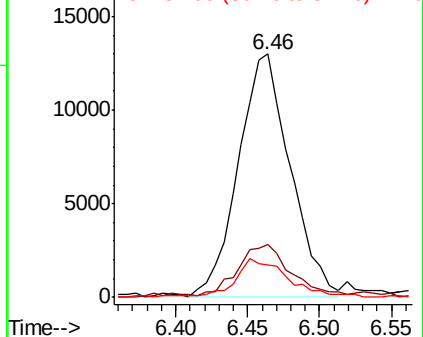
87 16.4 11.9 17.9



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: 2.233 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

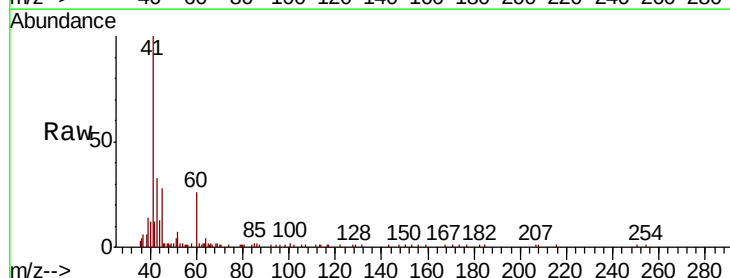
Tgt Ion: 41 Resp: 17238

Ion Ratio Lower Upper

41 100

69 0.7 70.3 105.5#

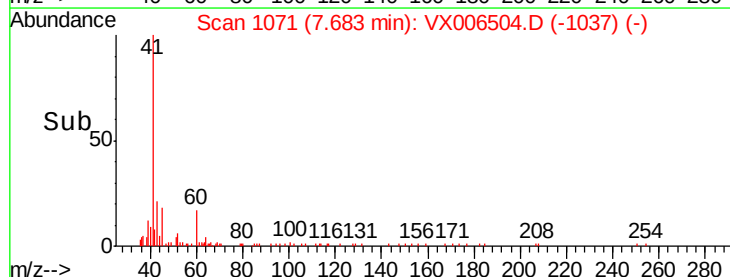
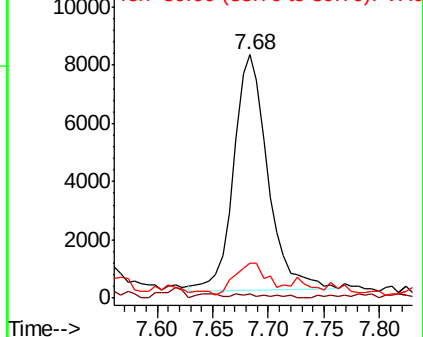
39 0.0 45.3 67.9#

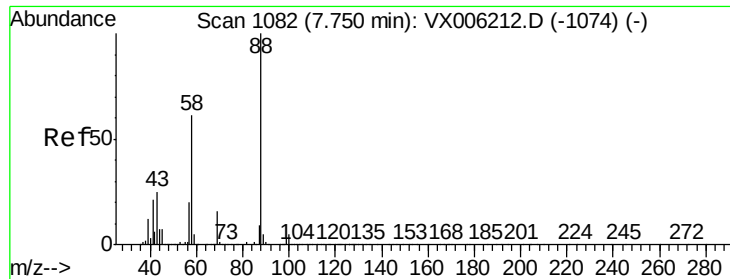


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

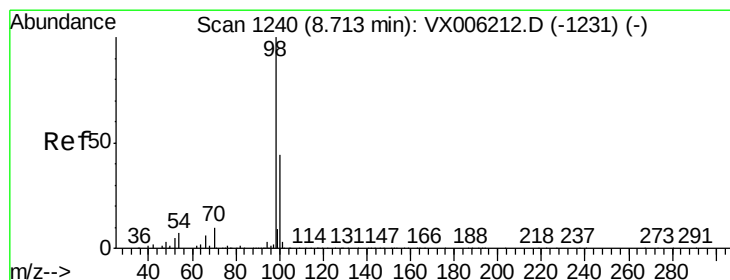
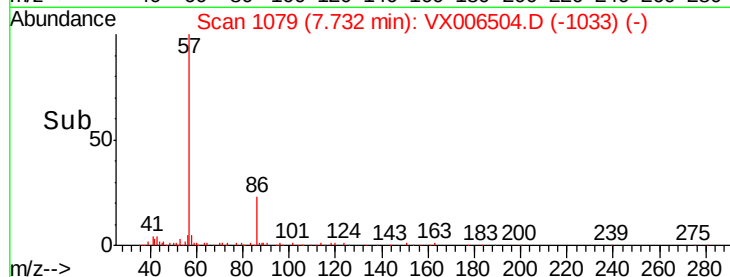
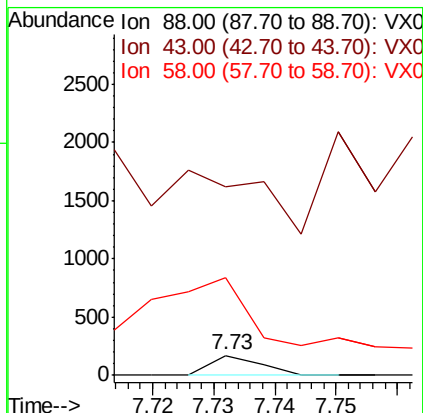
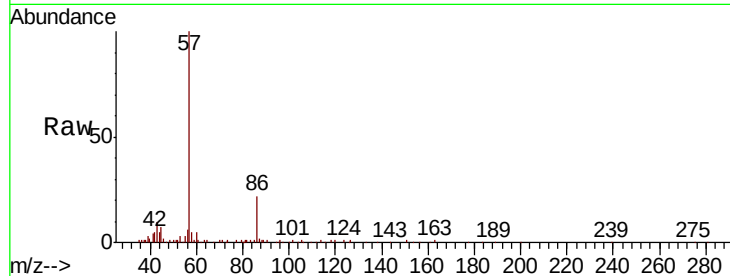




#49
1,4-Dioxane
Concen: 0.499 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.02 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

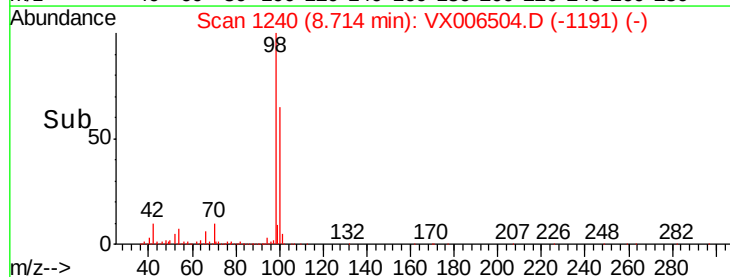
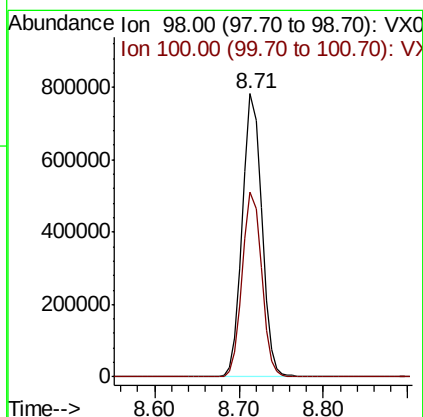
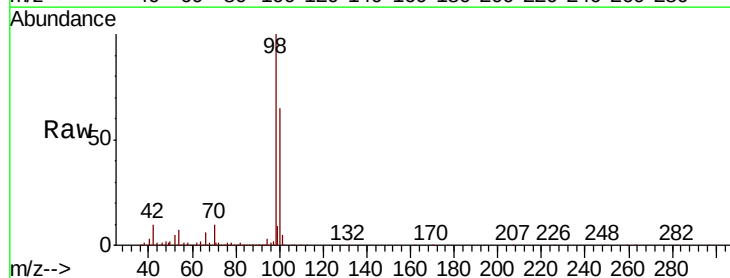
Instrument :
MSVOA_X
ClientSampleId :
TEST-PIT-1

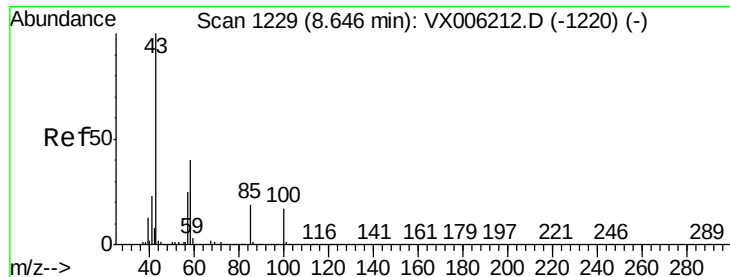
Tot Ion: 88 Resp: 95
Ion Ratio Lower Upper
88 100
43 0.0 23.2 34.8#
58 1250.5 51.4 77.0#



#50
Toluene-d8
Concen: 50.806 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Tgt Ion: 98 Resp: 1207775
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 17.725 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampled :

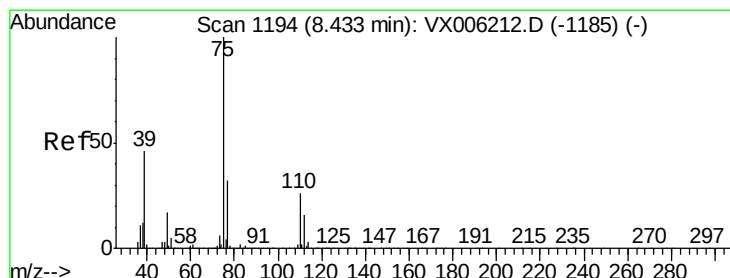
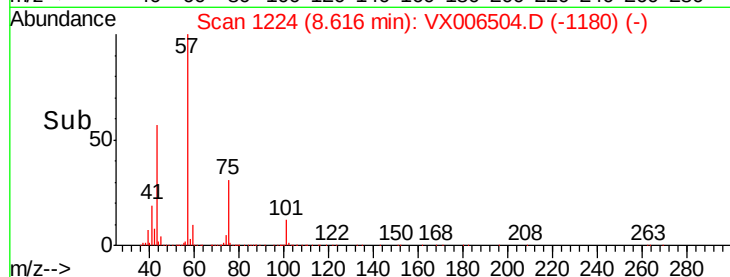
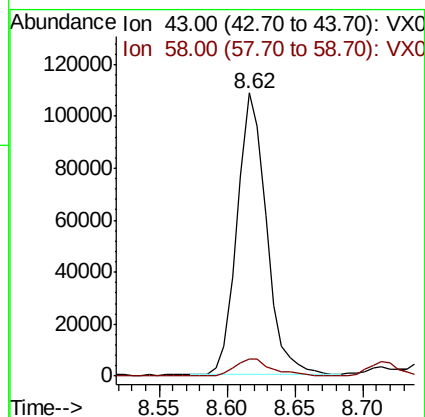
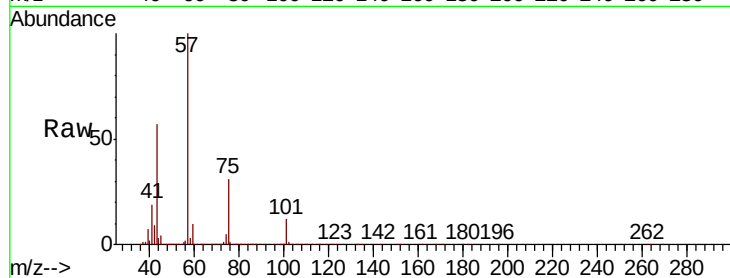
TEST-PIT-1

Tot Ion: 43 Resp: 163766

Ion Ratio Lower Upper

43 100

58 8.0 31.3 46.9#



#54

cis-1,3-Dichloropropene

Concen: 8.184 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

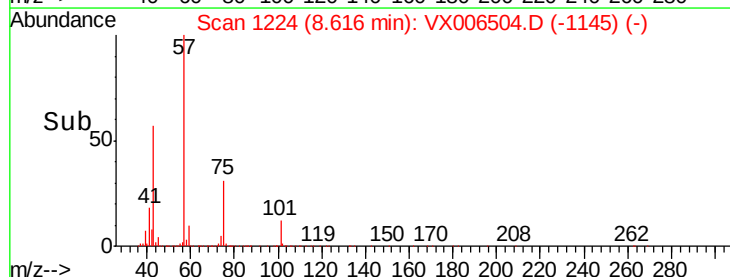
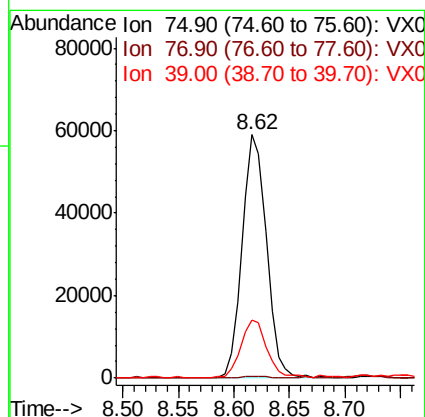
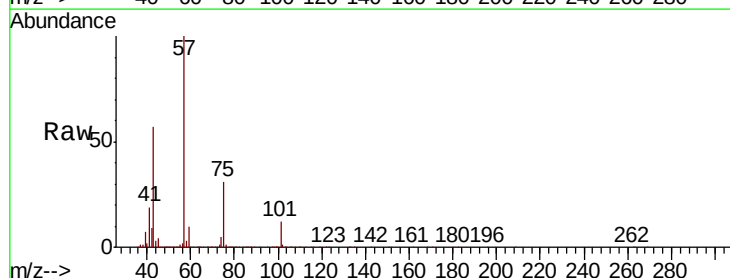
Tgt Ion: 75 Resp: 89940

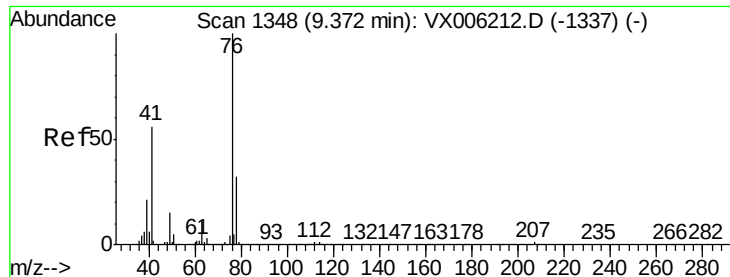
Ion Ratio Lower Upper

75 100

77 0.4 25.6 38.4#

39 23.5 36.5 54.7#

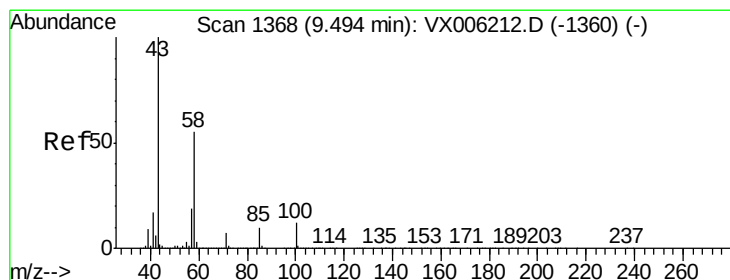
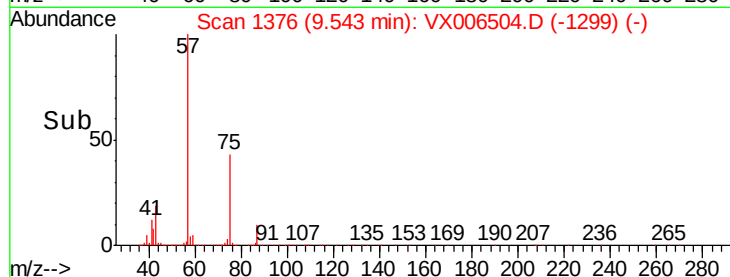
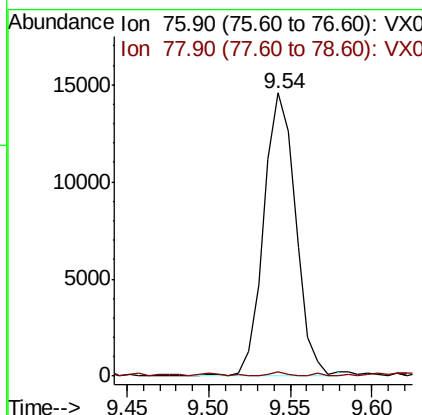
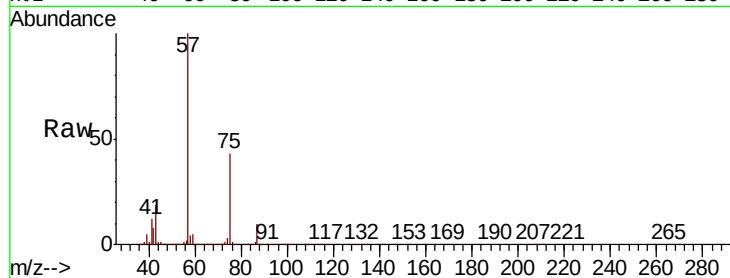




#57
 1,3-Dichloropropane
 Concen: 1.849 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX006504.D
 Acq: 13 Dec 2018 19:17

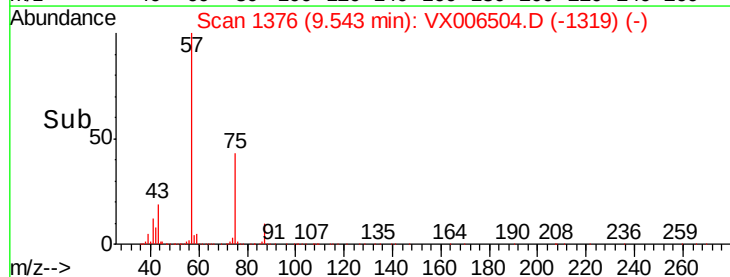
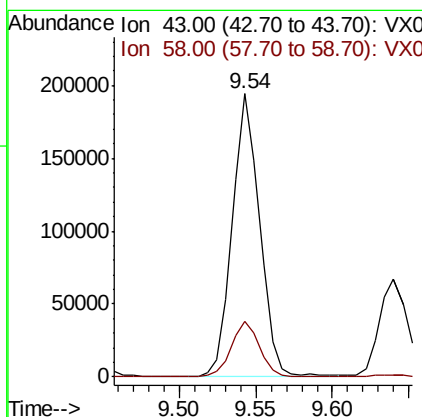
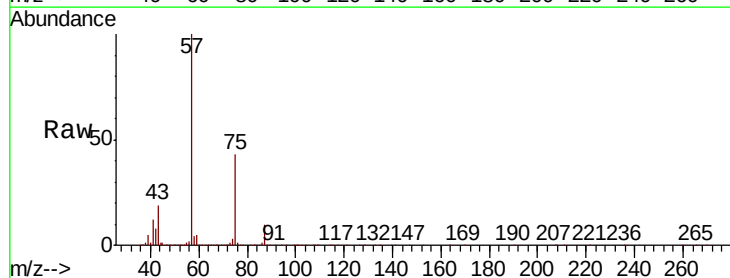
Instrument :
 MSVOA_X
 ClientSampleId :
 TEST-PIT-1

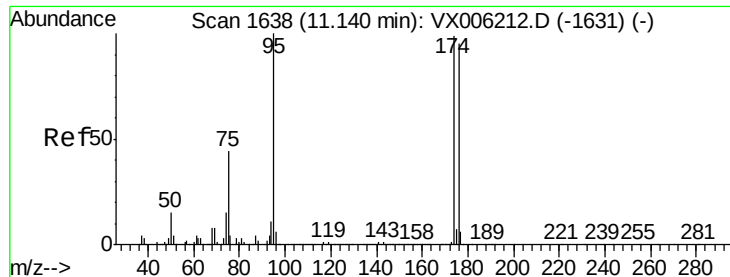
Tot Ion: 76 Resp: 19894
 Ion Ratio Lower Upper
 76 100
 78 0.9 26.1 39.1#



#59
 2-Hexanone
 Concen: 34.050 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.05 min
 Lab File: VX006504.D
 Acq: 13 Dec 2018 19:17

Tgt Ion: 43 Resp: 240352
 Ion Ratio Lower Upper
 43 100
 58 20.6 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 50.575 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

TEST-PIT-1

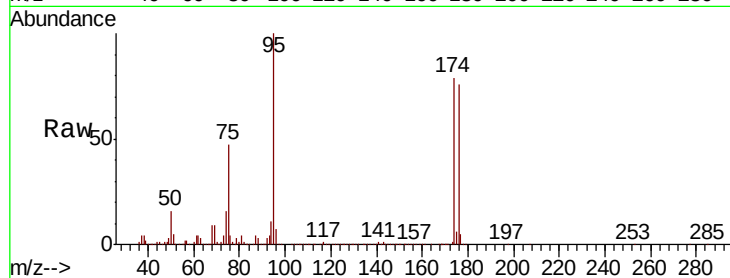
Tot Ion: 95 Resp: 453058

Ion Ratio Lower Upper

95 100

174 84.7 0.0 187.0

176 82.1 0.0 181.8

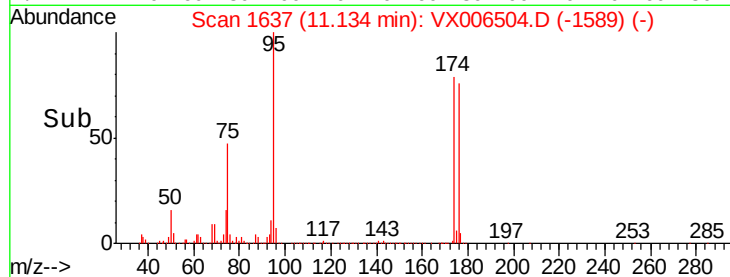


Abundance Ion 94.90 (94.60 to 95.60): VX006212.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006212.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006212.D (-1631) (-)

Time-->



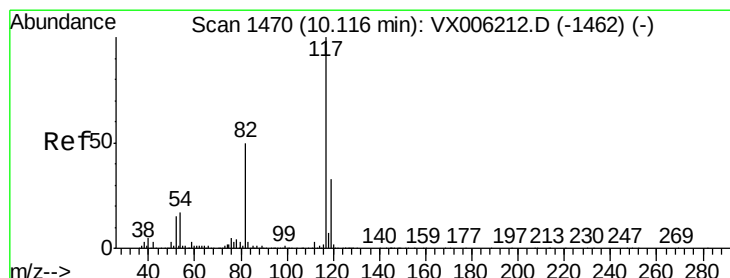
Abundance

Ion 94.90 (94.60 to 95.60): VX006504.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006504.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006504.D (-1589) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

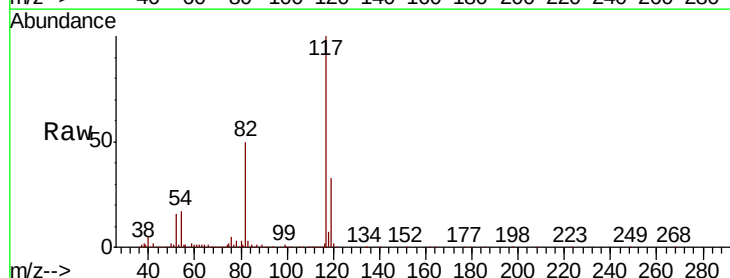
Tgt Ion: 117 Resp: 948720

Ion Ratio Lower Upper

117 100

82 50.0 39.6 59.4

119 33.2 26.3 39.5

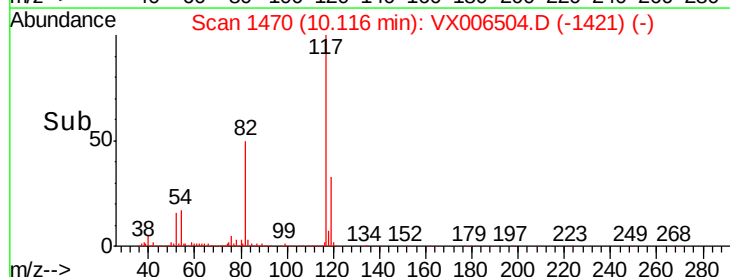


Abundance Ion 116.90 (116.60 to 117.60): VX006212.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006212.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006212.D (-1462) (-)

Time-->



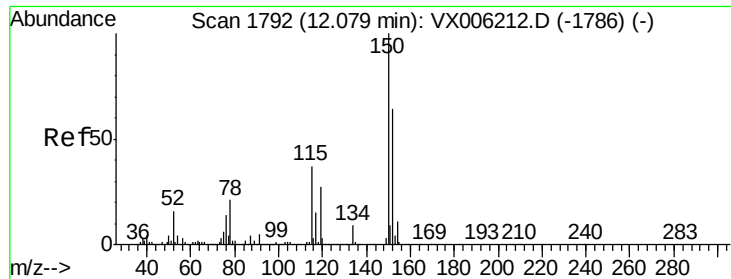
Abundance

Ion 116.90 (116.60 to 117.60): VX006504.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006504.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006504.D (-1421) (-)

Time-->

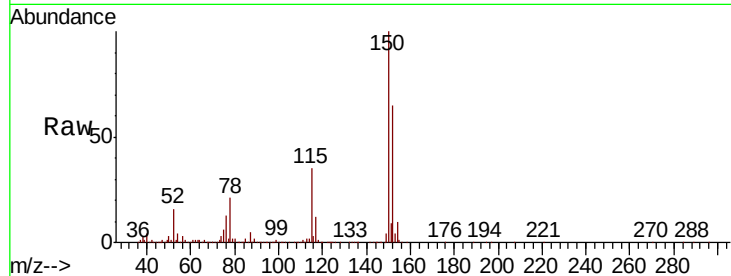


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Instrument :
MSVOA_X
ClientSampleId :
TEST-PIT-1

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.2	39.0	116.9
150	155.0	0.0	345.8

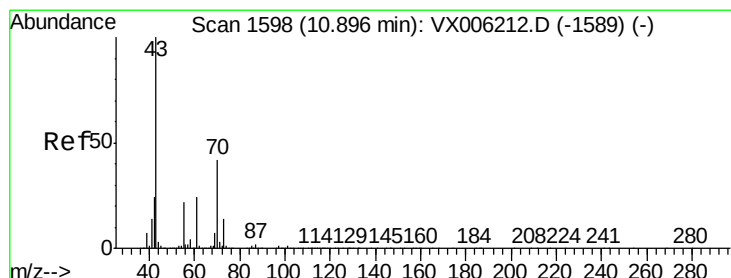
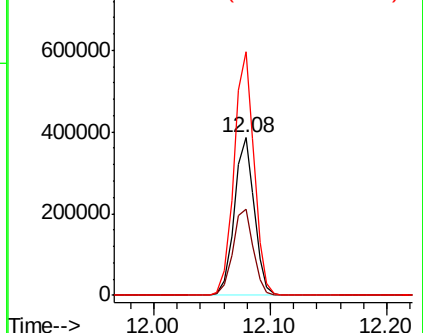
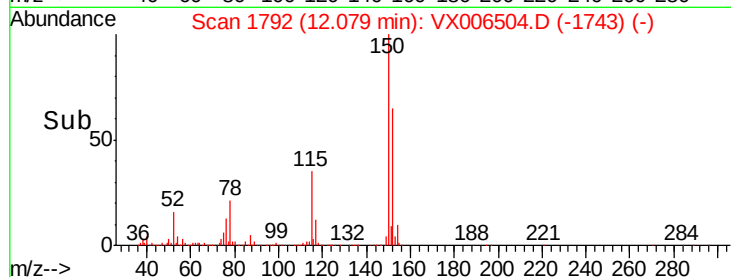


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

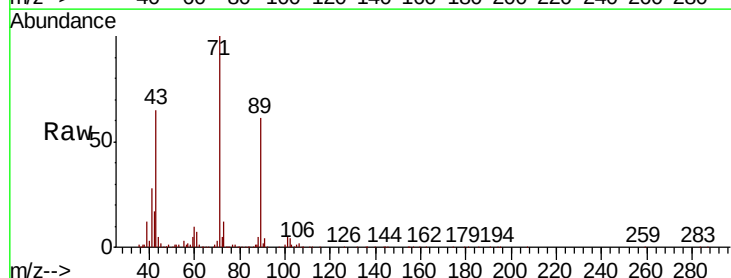
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 1.869 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Tgt Ion	Ratio	Lower	Upper
43	100		
70	4.4	34.1	51.1#
55	4.7	17.8	26.8#
61	12.2	19.7	29.5#



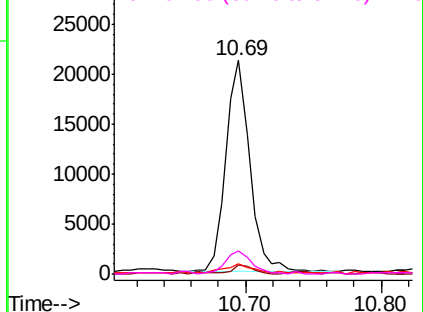
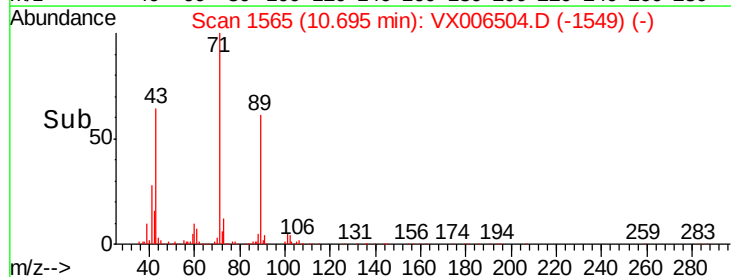
Abundance

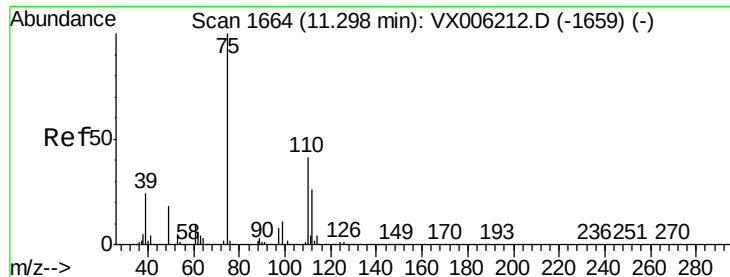
Ion 43.00 (42.70 to 43.70): VX0

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: 23.433 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampleId :

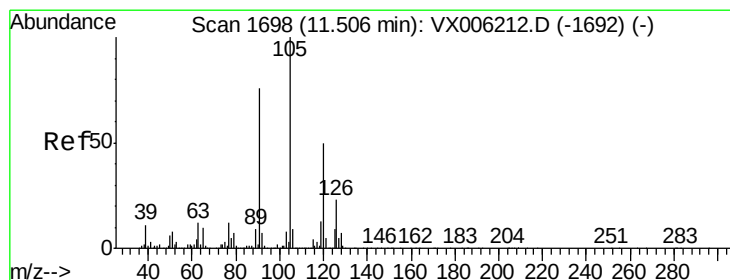
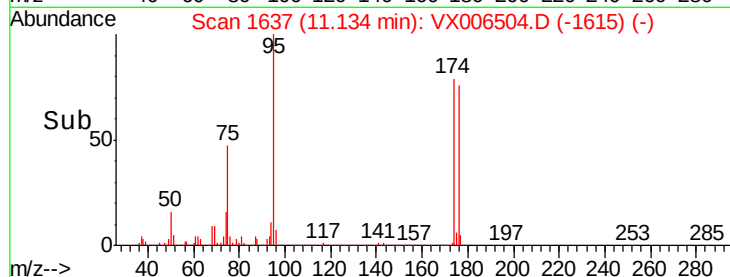
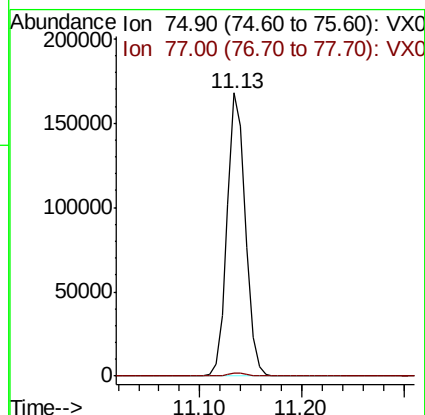
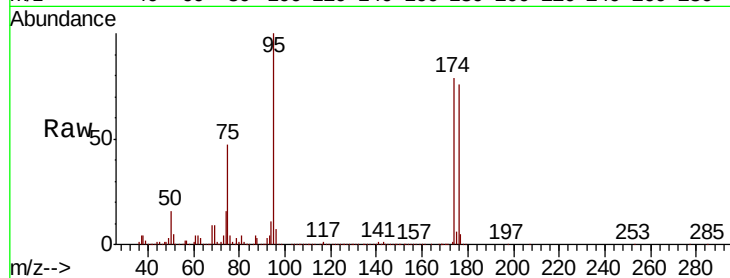
TEST-PIT-1

Tot Ion: 75 Resp: 208602

Ion Ratio Lower Upper

75 100

77 1.3 19.9 59.7#



#80

1,3,5-Trimethylbenzene

Concen: 0.355 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX006504.D

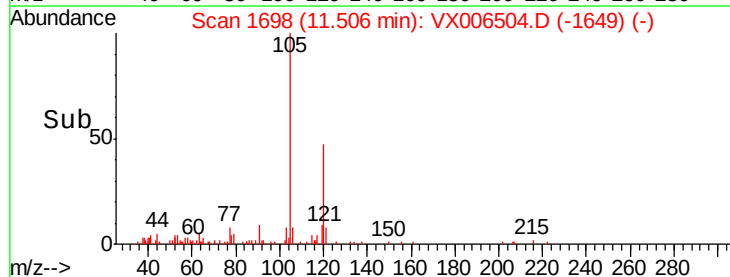
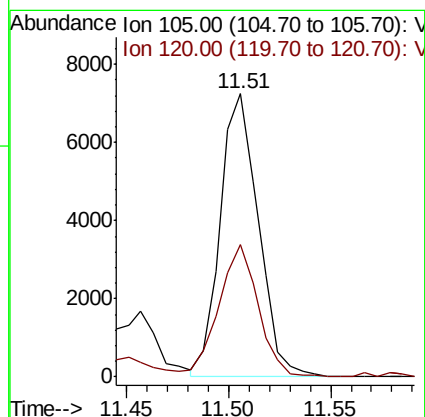
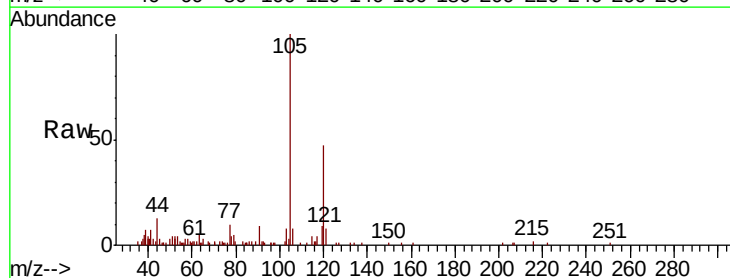
Acq: 13 Dec 2018 19:17

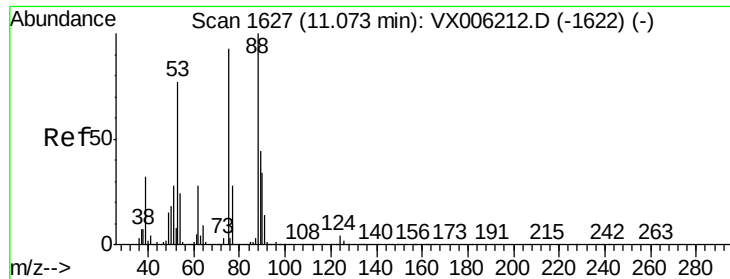
Tgt Ion:105 Resp: 9398

Ion Ratio Lower Upper

105 100

120 48.6 25.4 76.0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.992 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006504.D

Acq: 13 Dec 2018 19:17

Instrument :

MSVOA_X

ClientSampled :

TEST-PIT-1

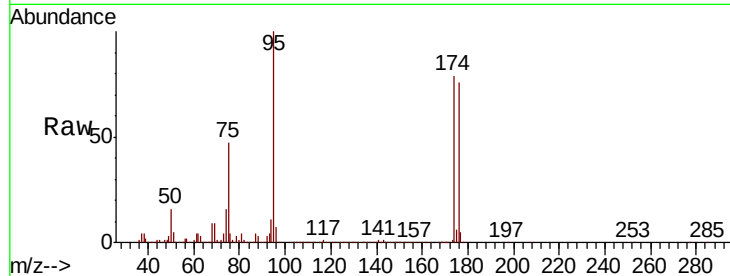
Tot Ion: 75 Resp: 208602

Ion Ratio Lower Upper

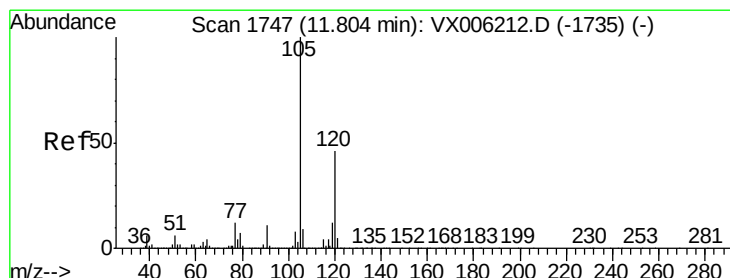
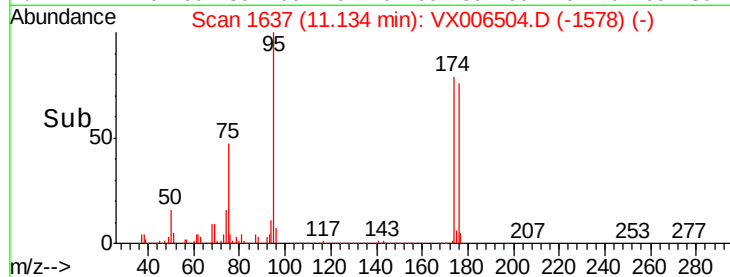
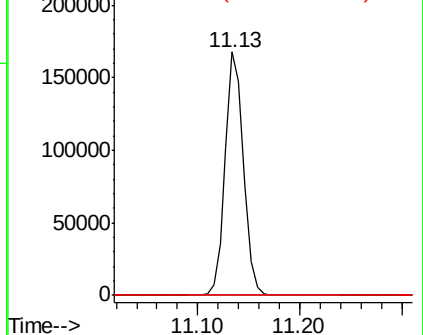
75 100

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: 0.244 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX006504.D

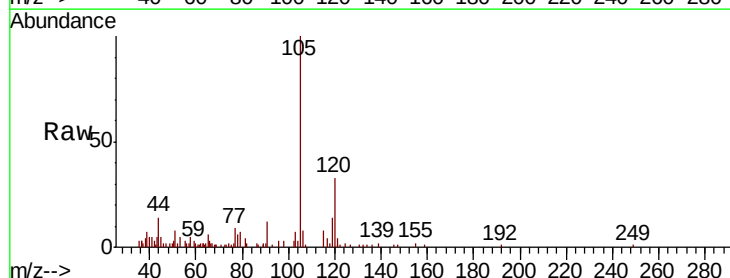
Acq: 13 Dec 2018 19:17

Tgt Ion: 105 Resp: 6664

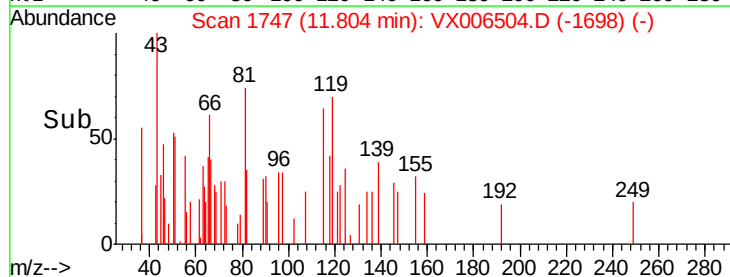
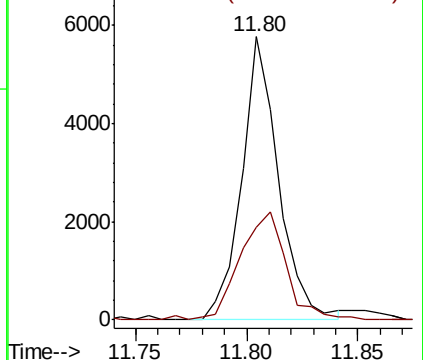
Ion Ratio Lower Upper

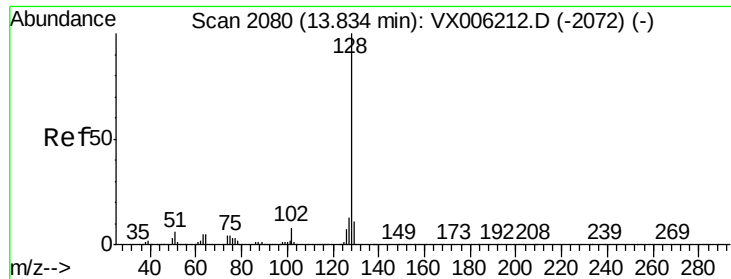
105 100

120 47.7 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

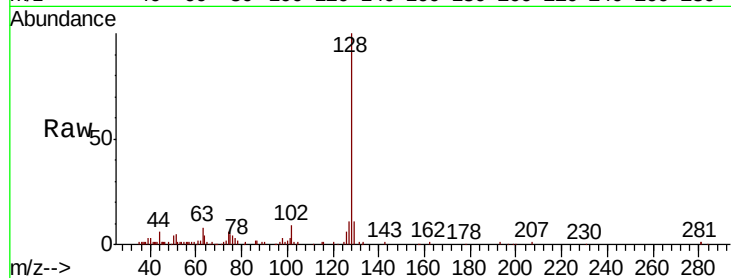




#95
Naphthalene
Concen: 0.567 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006504.D
Acq: 13 Dec 2018 19:17

Instrument :
MSVOA_X
ClientSampleId :
TEST-PIT-1

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.2	15.4
129	12.2	8.9	13.3



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

