

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012219\
 Data File : VX007190.D
 Acq On : 22 Jan 2019 19:01
 Operator : JC/SP
 Sample : K1214-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW531-4246

Quant Time: Jan 23 00:06:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	503846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	780050	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	742436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	366889	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	277242	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
35) Dibromofluoromethane	5.51	113	241044	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	8.71	98	940979	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.13	95	337379	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	

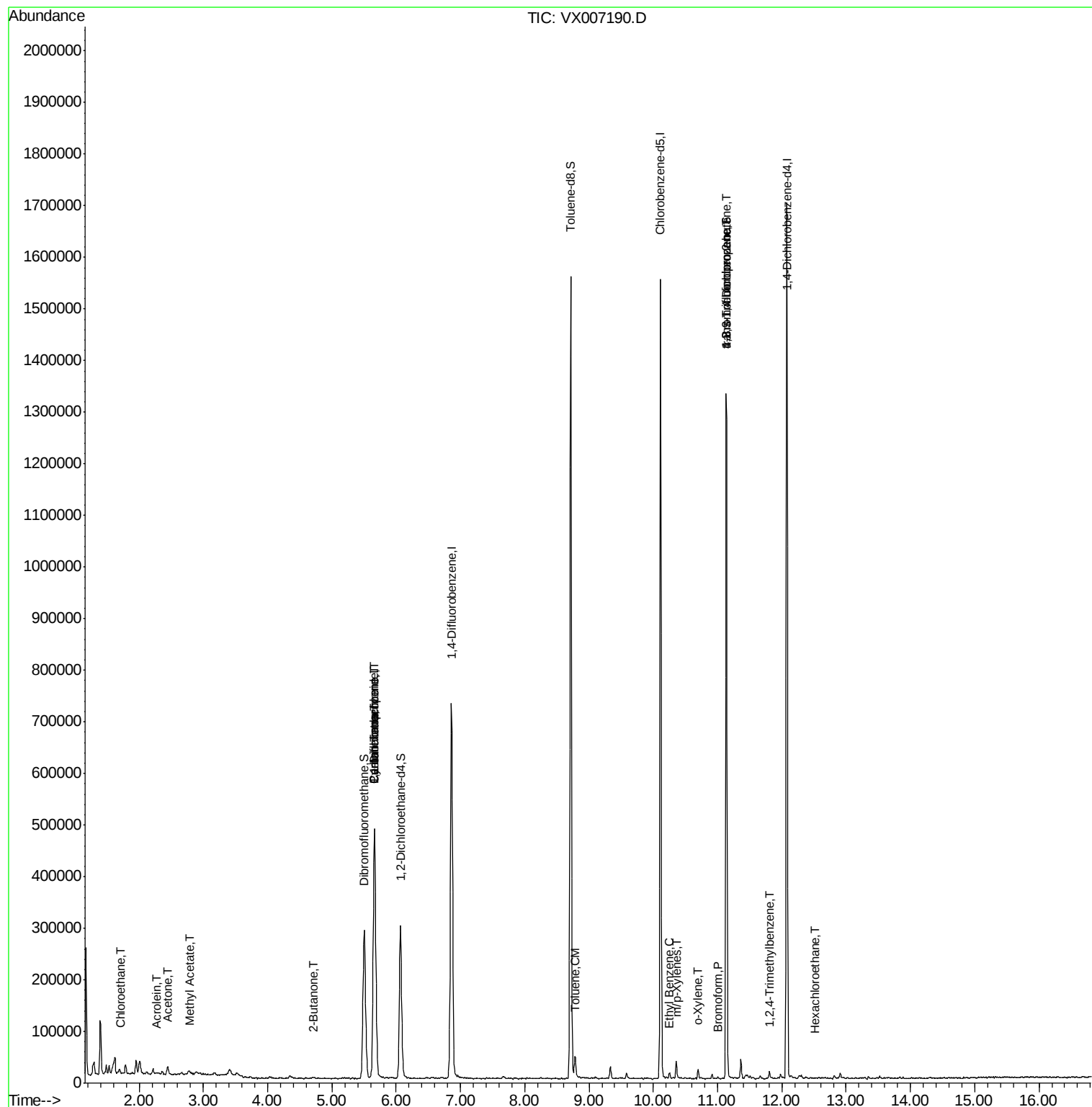
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	768	0.212	ug/l #	86
13) Acrolein	2.27	56	1185	5.269	ug/l #	1
16) Acetone	2.45	43	15687	6.026	ug/l #	88
18) Methyl Acetate	2.78	43	3882	0.515	ug/l #	84
20) Methylene Chloride	2.84	84	858	Below Cal	#	18
25) 2-Butanone	4.71	43	5389	1.447	ug/l	99
31) Cyclohexane	5.66	56	9023	1.215	ug/l #	5
36) 1,1-Dichloropropene	5.66	75	32844	4.843	ug/l #	50
38) Carbon Tetrachloride	5.66	117	44595	6.536	ug/l #	13
49) 1,4-Dioxane	7.76	88	267	Below Cal	#	12
52) Toluene	8.79	92	15896	1.195	ug/l	96
67) Ethyl Benzene	10.25	91	6020	0.225	ug/l	99
68) m/p-Xylenes	10.35	106	7828	0.743	ug/l	92
69) o-Xylene	10.70	106	4824	0.470	ug/l	82
71) Bromoform	11.01	173	159	4.757	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	160783	21.626	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	160783	64.108	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	5886	0.271	ug/l	96
90) Hexachloroethane	12.52	117	112	2.937	ug/l	58

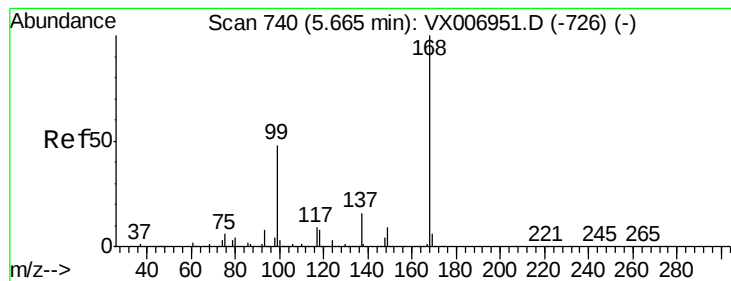
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

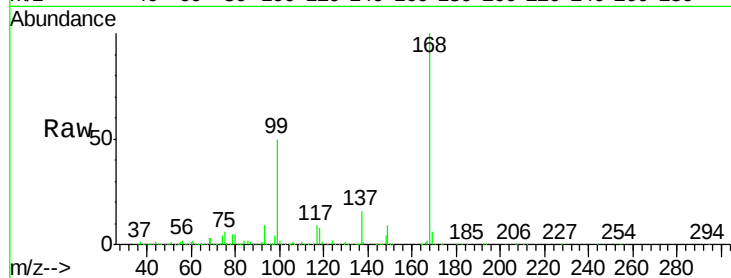
SA-TW531-4246

Tot Ion:168 Resp: 503846

Ion Ratio Lower Upper

168 100

99 50.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

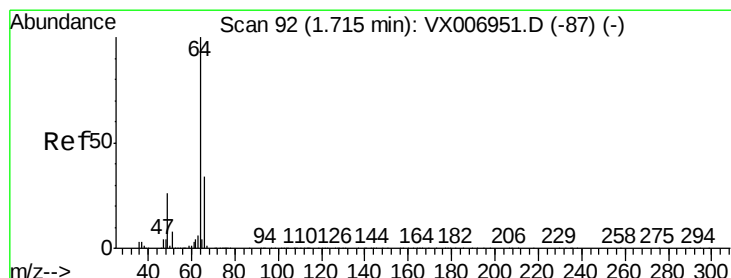
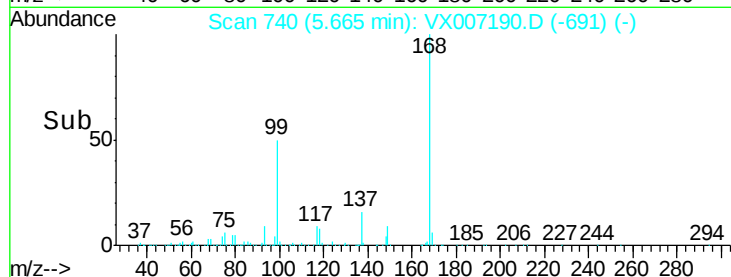
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.212 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX007190.D

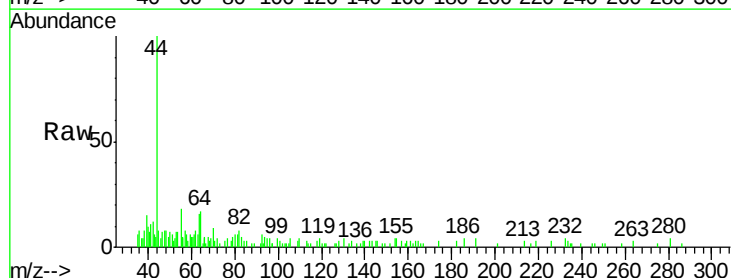
Acq: 22 Jan 2019 19:01

Tgt Ion: 64 Resp: 768

Ion Ratio Lower Upper

64 100

66 25.2 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1200

1000

800

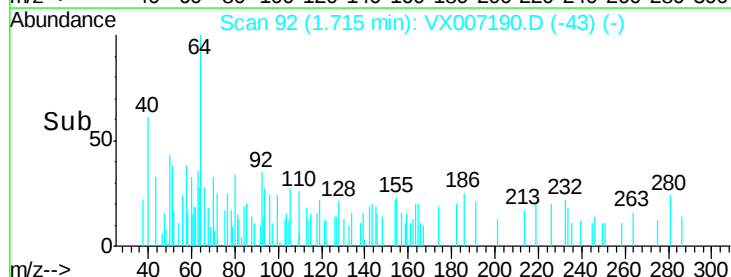
600

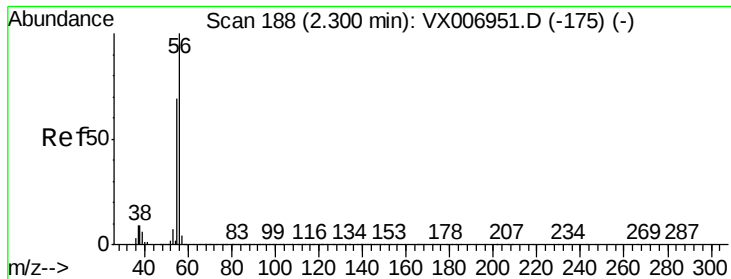
400

200

0

Time-->





#13

Acrolein

Concen: 5.269 ug/l

RT: 2.27 min Scan# 183

Delta R.T. -0.03 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

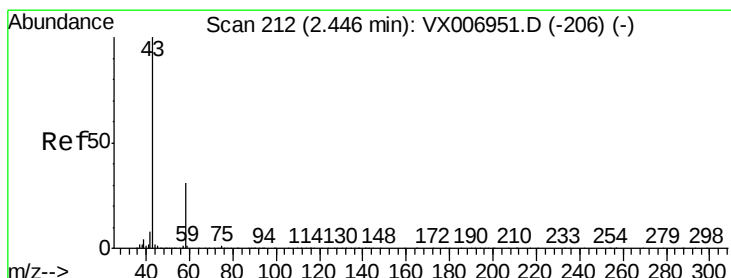
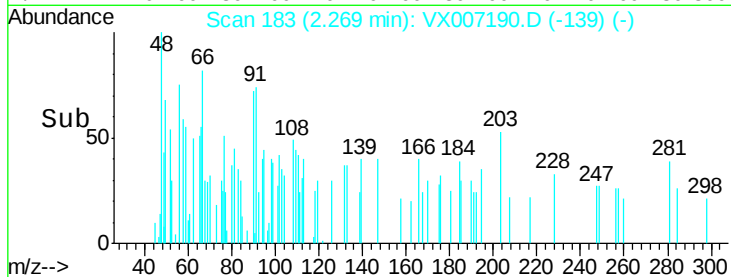
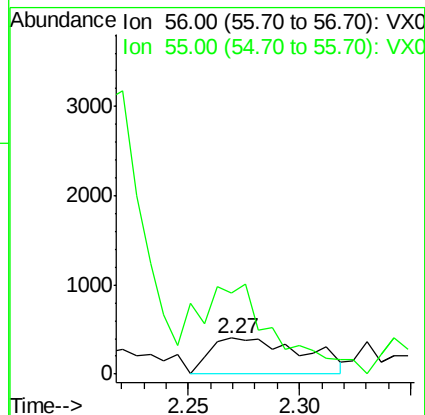
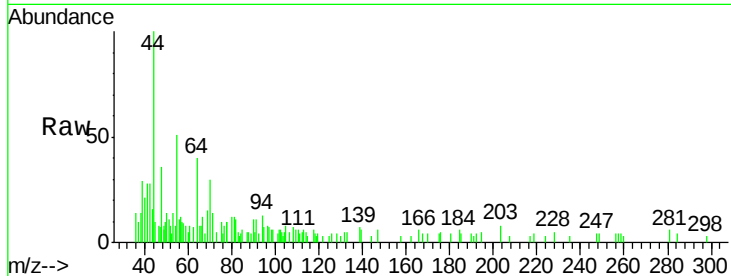
SA-TW531-4246

Tot Ion: 56 Resp: 1185

Ion Ratio Lower Upper

56 100

55 205.7 58.2 87.4#



#16

Acetone

Concen: 6.026 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007190.D

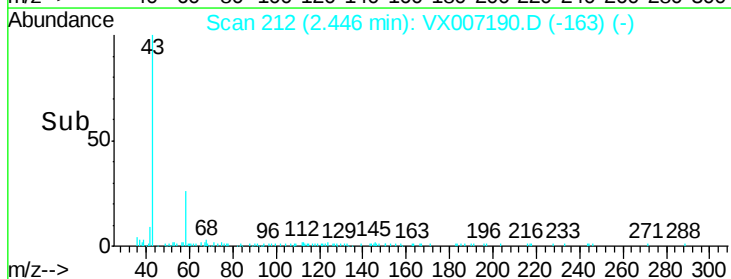
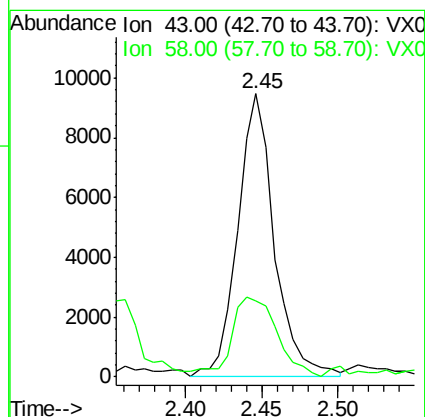
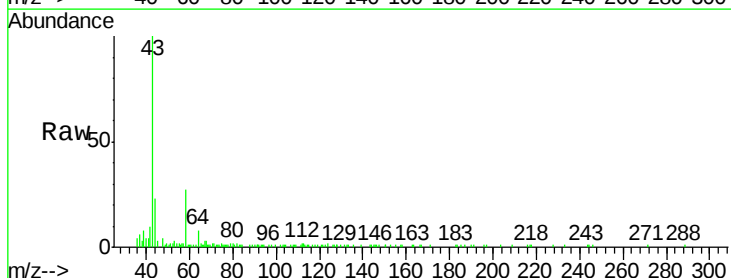
Acq: 22 Jan 2019 19:01

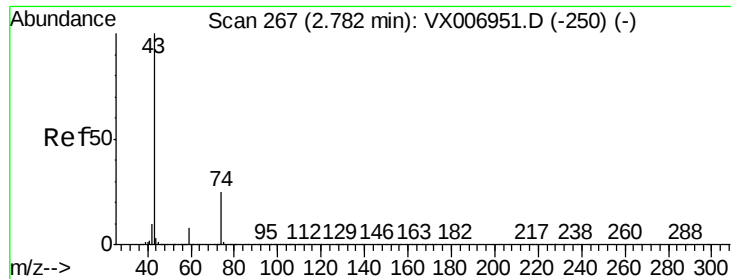
Tgt Ion: 43 Resp: 15687

Ion Ratio Lower Upper

43 100

58 24.8 25.0 37.6#

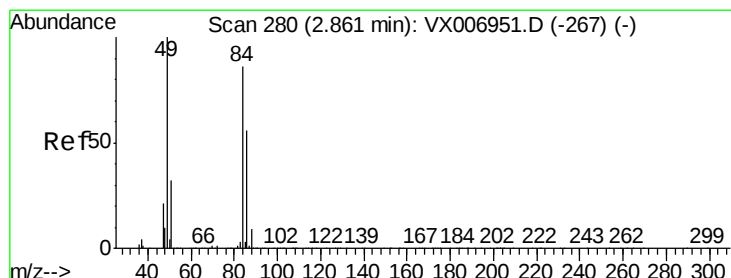
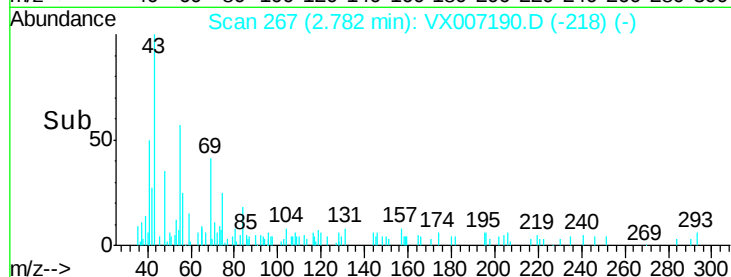
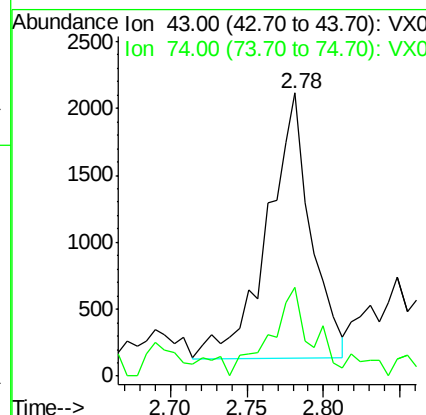
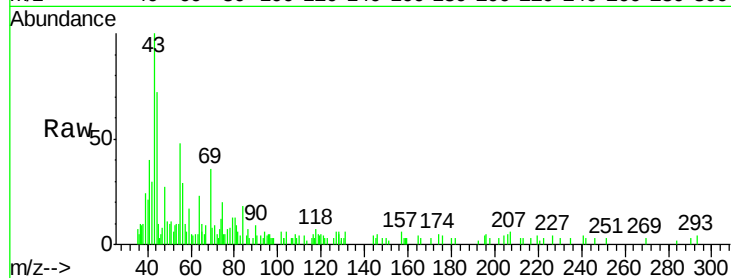




#18
Methyl Acetate
Concen: 0.515 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007190.D
Acq: 22 Jan 2019 19:01

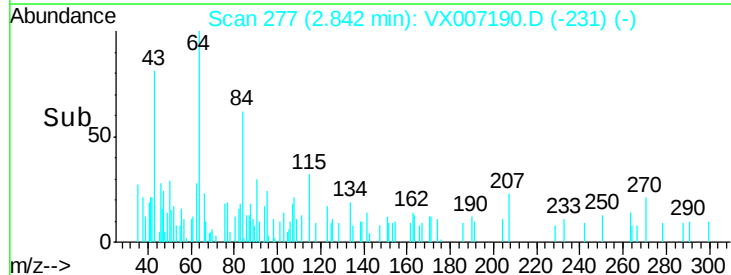
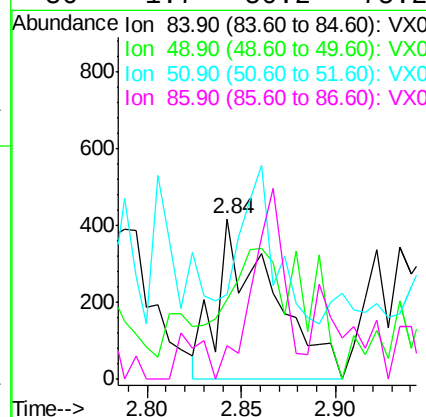
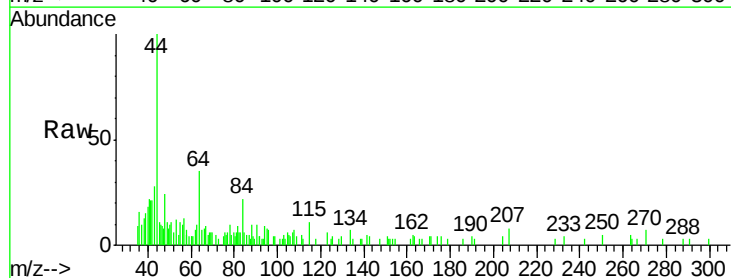
Instrument :
MSVOA_X
ClientSampleId :
SA-TW531-4246

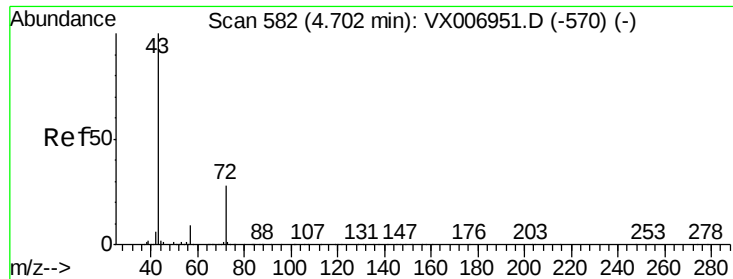
Tot Ion: 43 Resp: 3882
Ion Ratio Lower Upper
43 100
74 31.3 18.6 28.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 277
Delta R.T. -0.02 min
Lab File: VX007190.D
Acq: 22 Jan 2019 19:01

Tgt Ion: 84 Resp: 858
Ion Ratio Lower Upper
84 100
49 16.7 91.8 137.6#
51 0.0 28.5 42.7#
86 1.7 50.2 75.2#

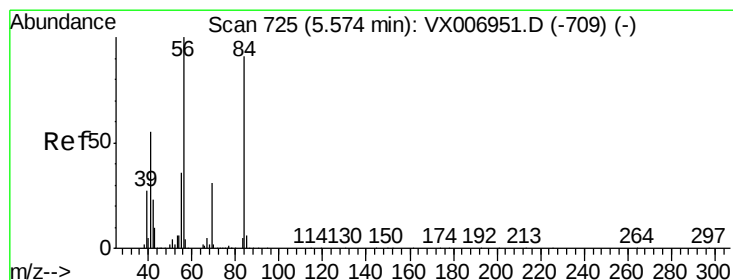
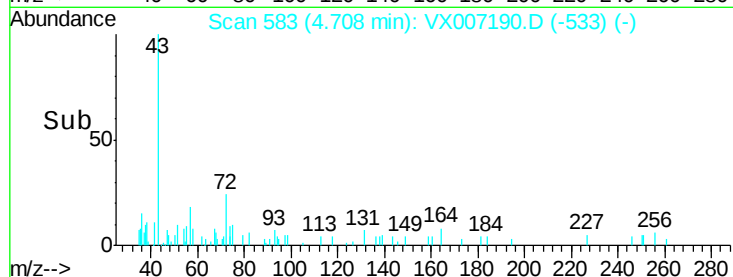
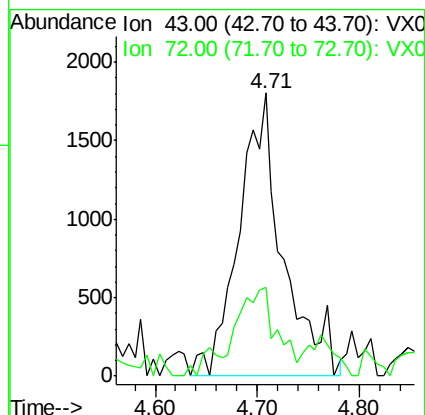
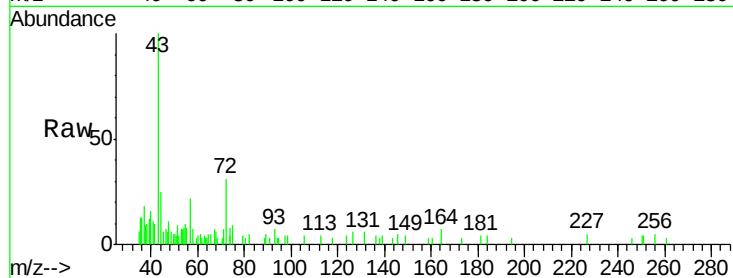




#25
2-Butanone
Concen: 1.447 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007190.D
Acq: 22 Jan 2019 19:01

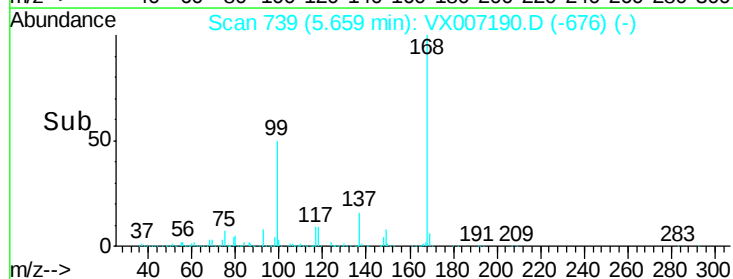
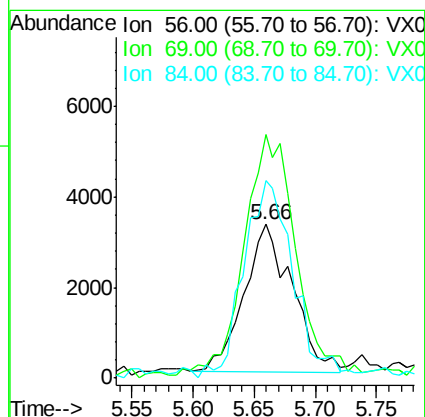
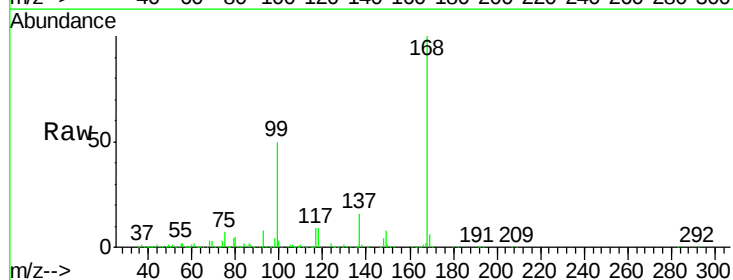
Instrument :
MSVOA_X
ClientSampleId :
SA-TW531-4246

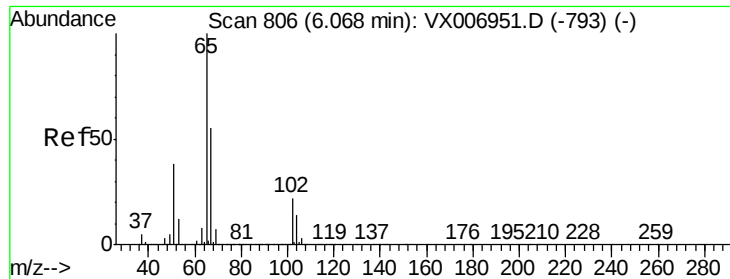
Tot Ion: 43 Resp: 5389
Ion Ratio Lower Upper
43 100
72 27.5 22.4 33.6



#31
Cyclohexane
Concen: 1.215 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007190.D
Acq: 22 Jan 2019 19:01

Tgt Ion: 56 Resp: 9023
Ion Ratio Lower Upper
56 100
69 160.2 24.4 36.6#
84 129.4 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 52.651 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

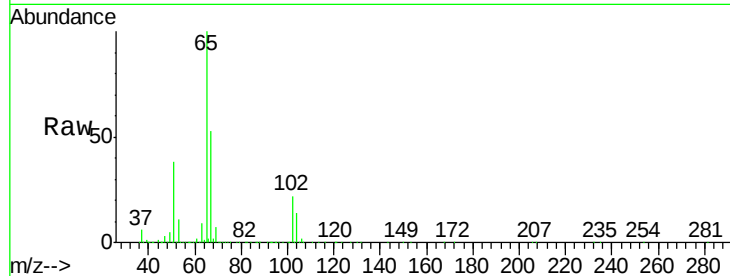
SA-TW531-4246

Tot Ion: 65 Resp: 277242

Ion Ratio Lower Upper

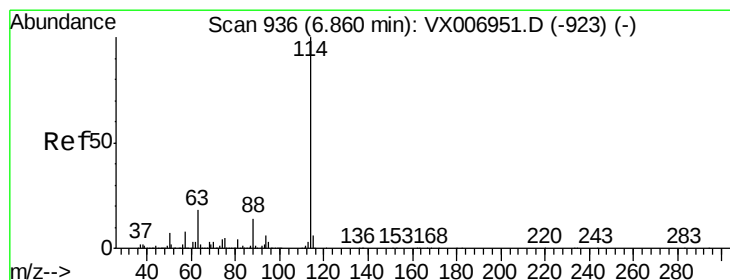
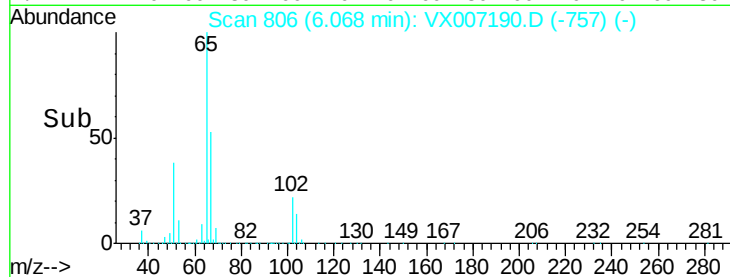
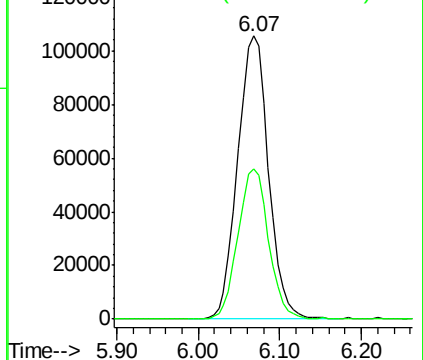
65 100

67 52.8 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

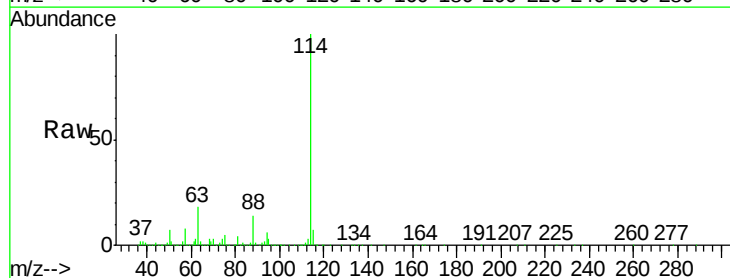
Tgt Ion: 114 Resp: 780050

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

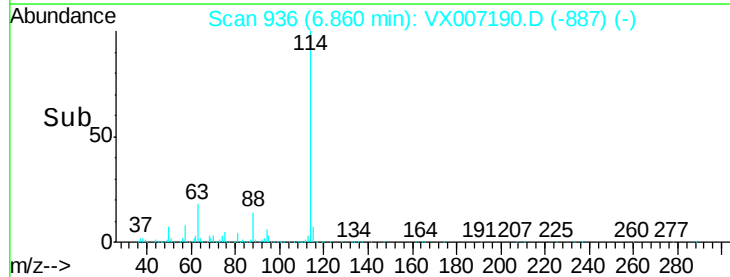
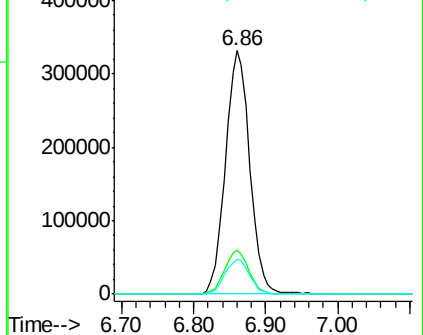
88 14.2 0.0 28.8

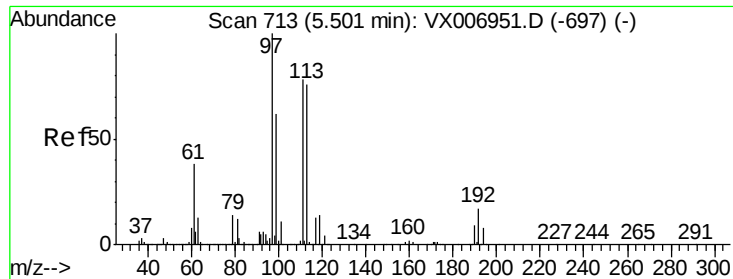


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.253 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

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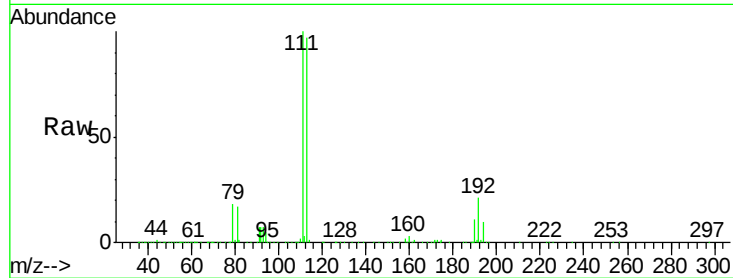
Tot Ion:113 Resp: 241044

Ion Ratio Lower Upper

113 100

111 103.5 81.6 122.4

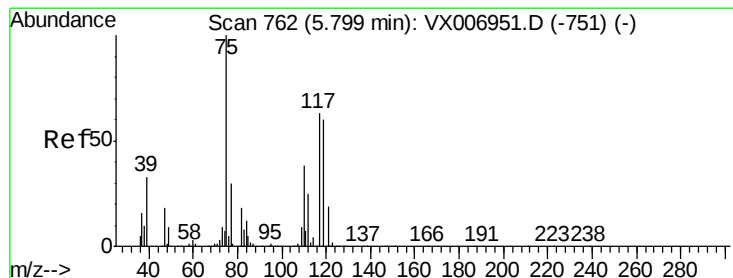
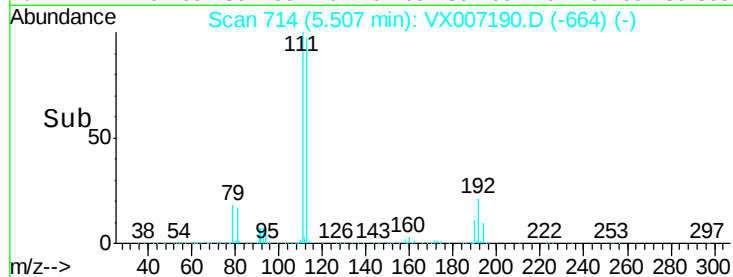
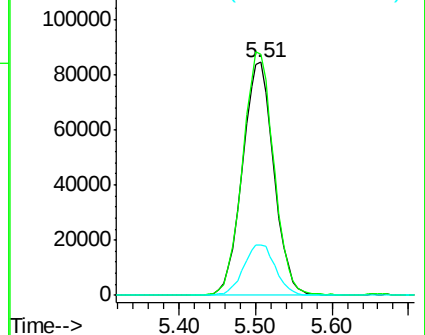
192 22.1 16.7 25.1



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: 4.843 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

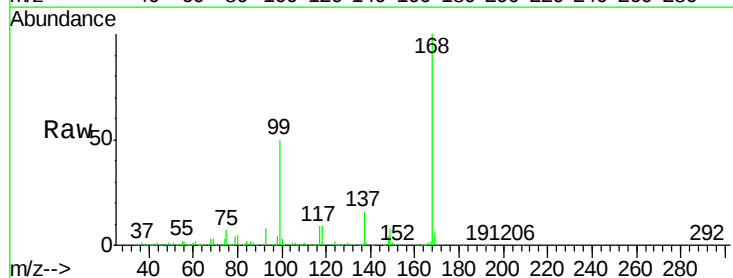
Tgt Ion: 75 Resp: 32844

Ion Ratio Lower Upper

75 100

110 11.1 20.2 60.5#

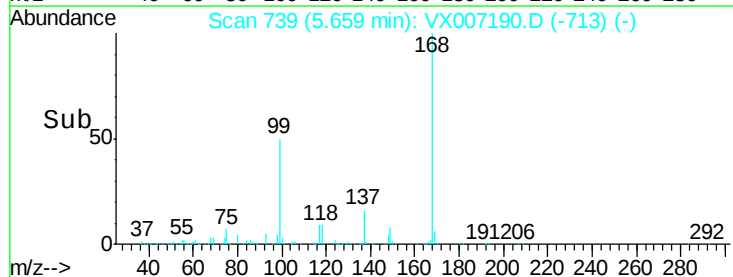
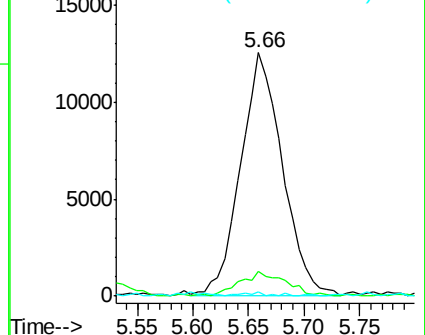
77 0.9 24.8 37.2#

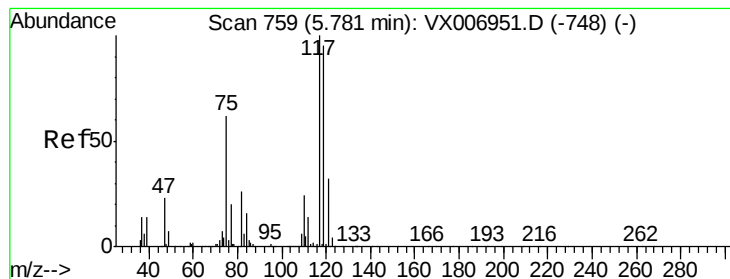


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.536 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

SA-TW531-4246

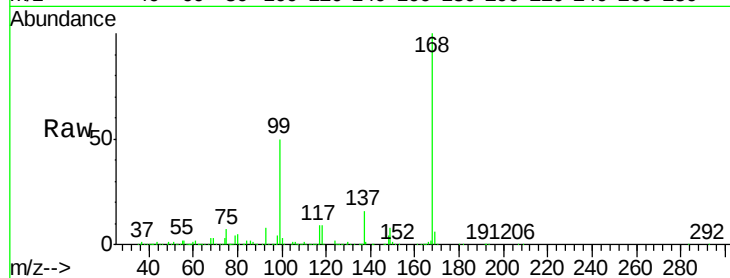
Tot Ion:117 Resp: 44595

Ion Ratio Lower Upper

117 100

119 3.3 79.4 119.2#

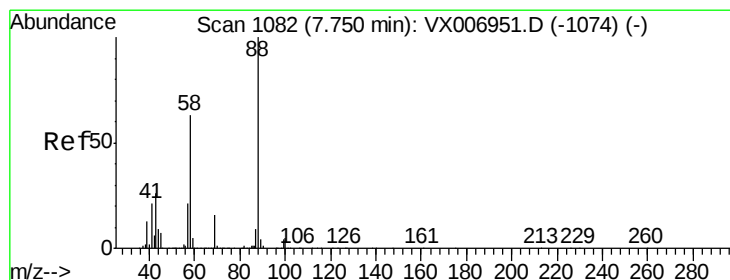
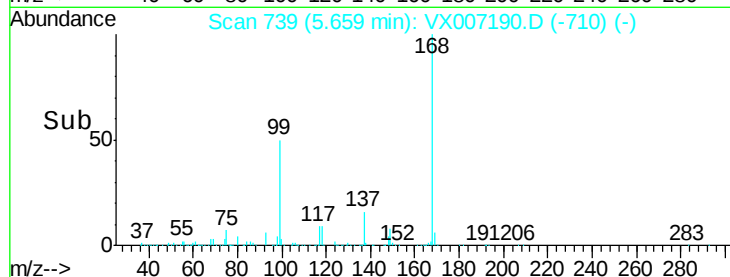
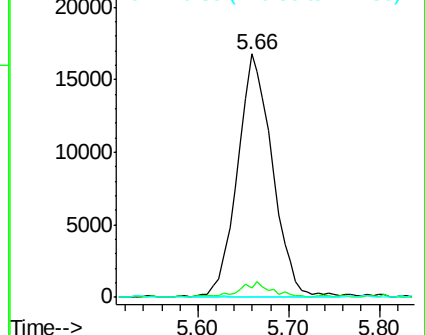
121 0.0 24.0 36.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

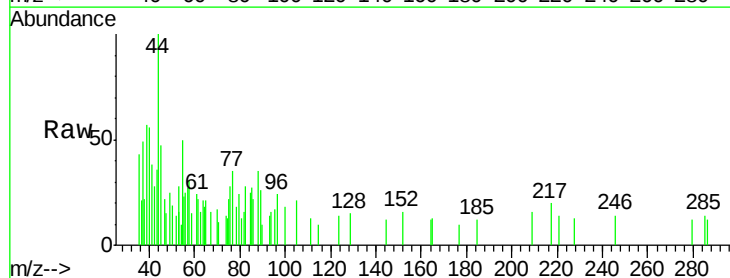
Tgt Ion: 88 Resp: 267

Ion Ratio Lower Upper

88 100

43 62.9 22.2 33.4#

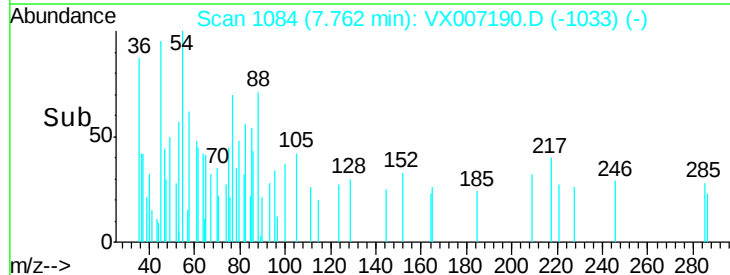
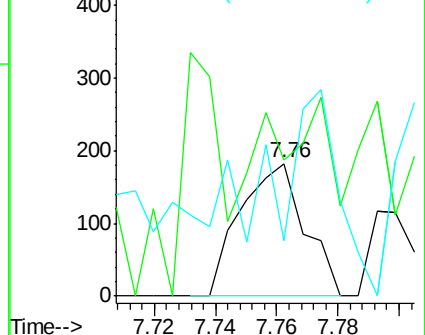
58 139.7 51.0 76.4#

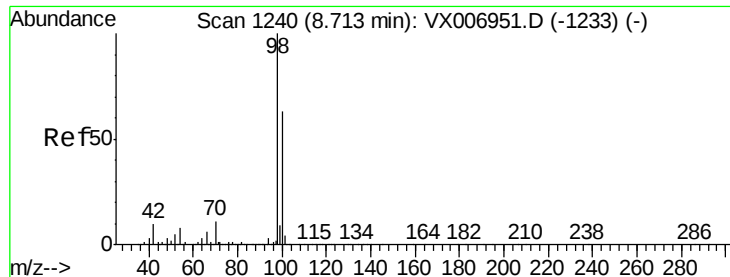


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.463 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

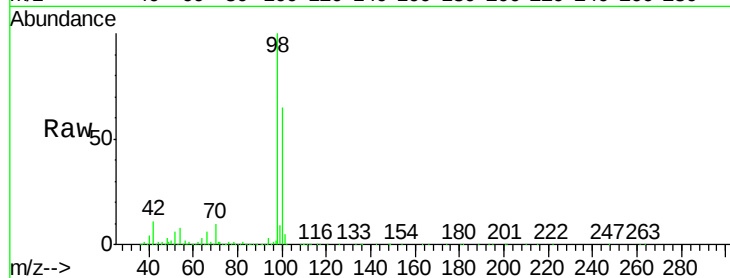
SA-TW531-4246

Tot Ion: 98 Resp: 940979

Ion Ratio Lower Upper

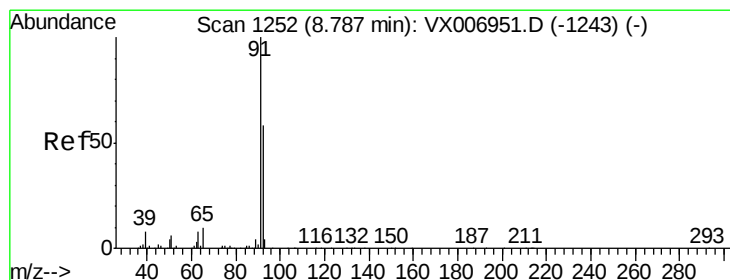
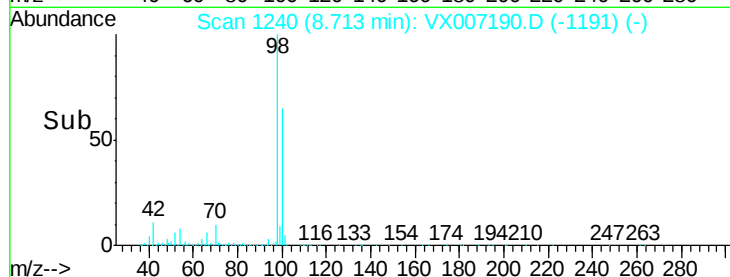
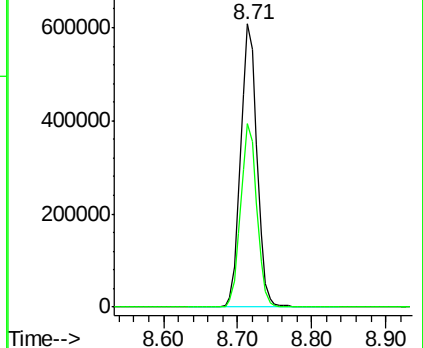
98 100

100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 1.195 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX007190.D

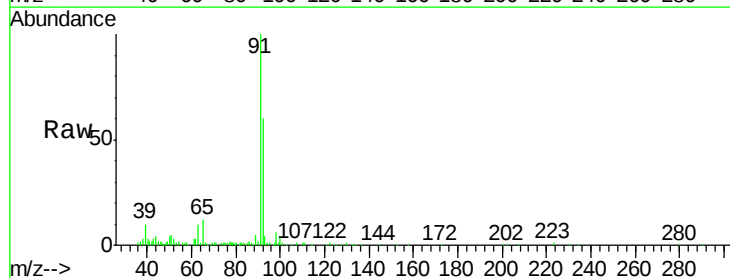
Acq: 22 Jan 2019 19:01

Tgt Ion: 92 Resp: 15896

Ion Ratio Lower Upper

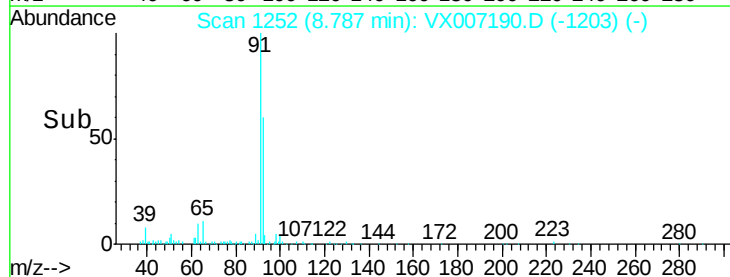
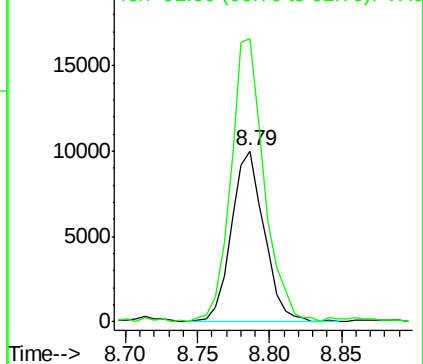
92 100

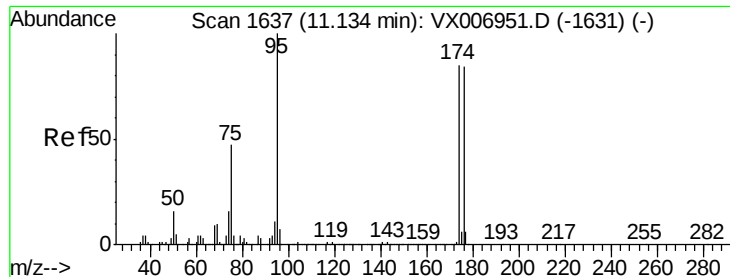
91 167.1 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.926 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

SA-TW531-4246

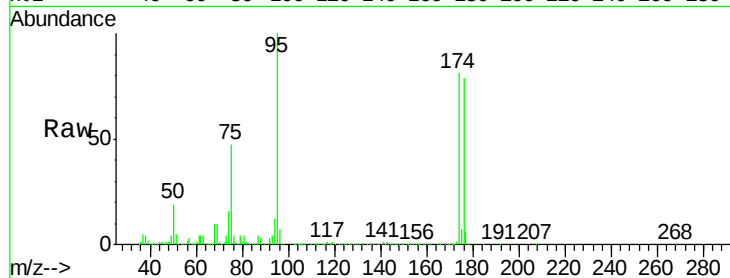
Tot Ion: 95 Resp: 337379

Ion Ratio Lower Upper

95 100

174 91.7 0.0 182.2

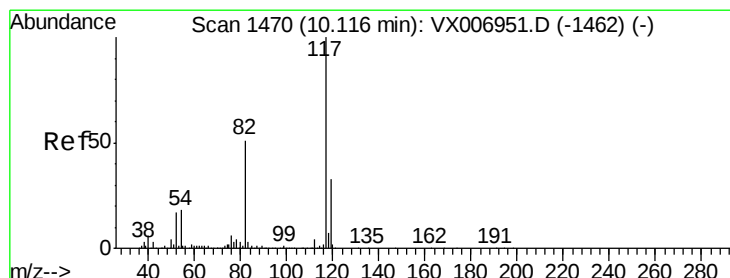
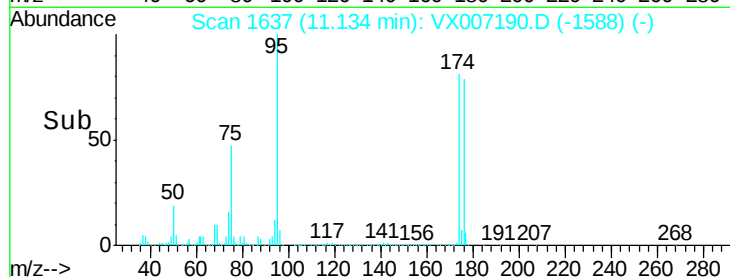
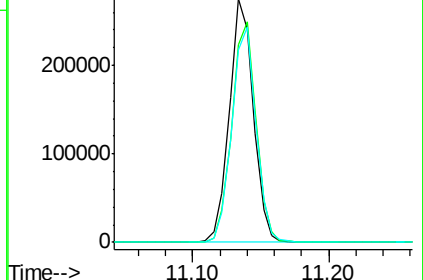
176 89.7 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

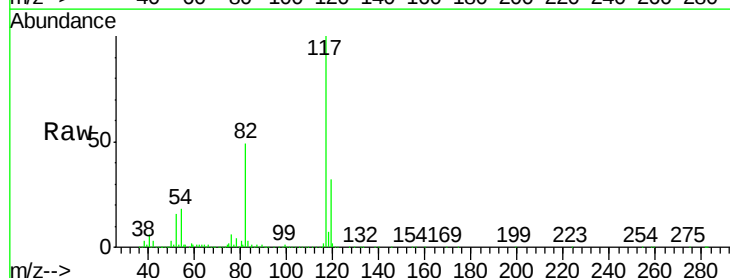
Tgt Ion: 117 Resp: 742436

Ion Ratio Lower Upper

117 100

82 49.3 41.0 61.6

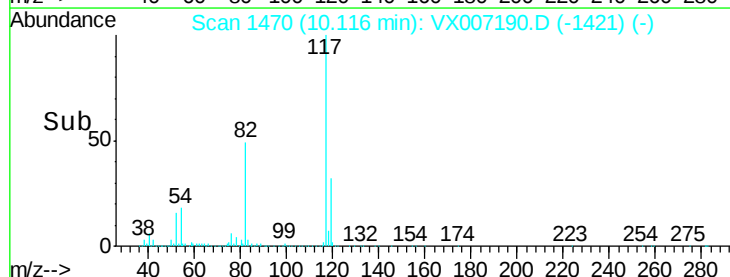
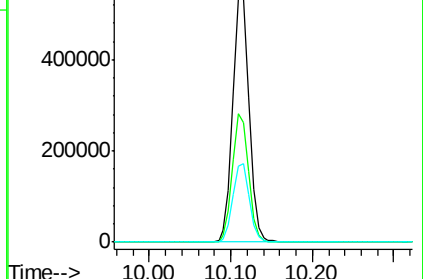
119 32.3 25.4 38.0

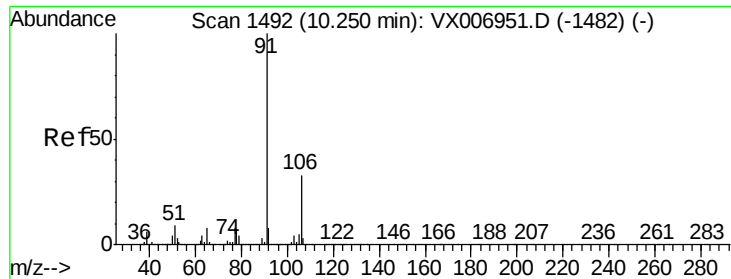


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#67

Ethyl Benzene

Concen: 0.225 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

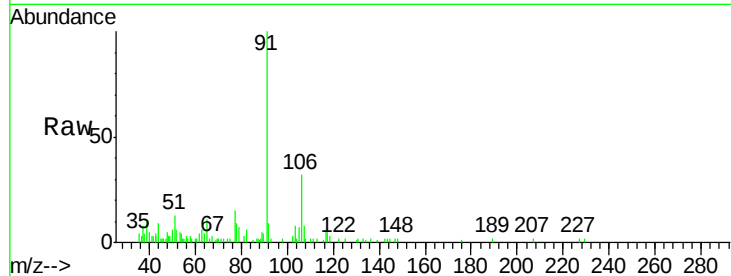
SA-TW531-4246

Tot Ion: 91 Resp: 6020

Ion Ratio Lower Upper

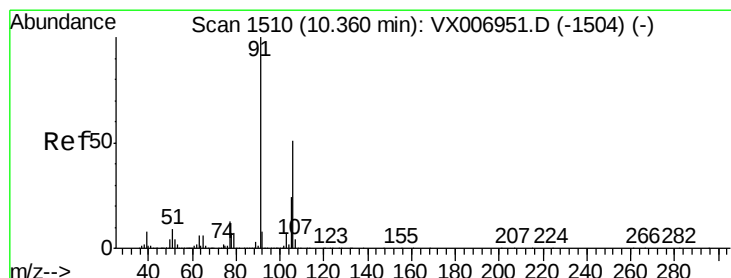
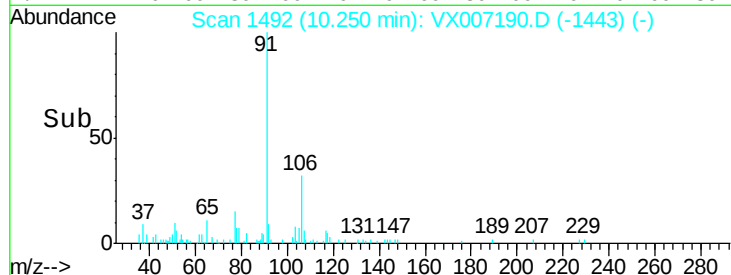
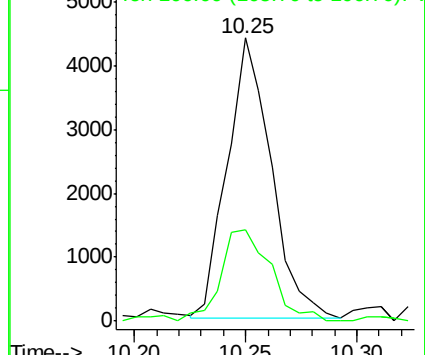
91 100

106 32.7 26.4 39.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 0.743 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX007190.D

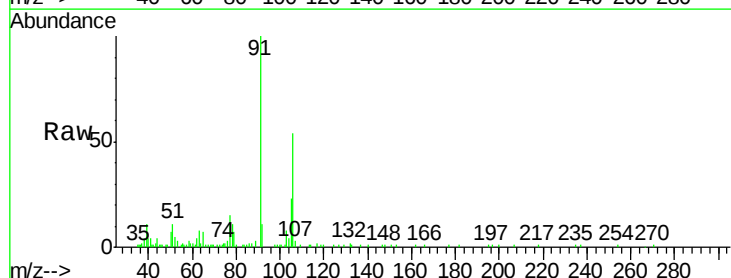
Acq: 22 Jan 2019 19:01

Tgt Ion: 106 Resp: 7828

Ion Ratio Lower Upper

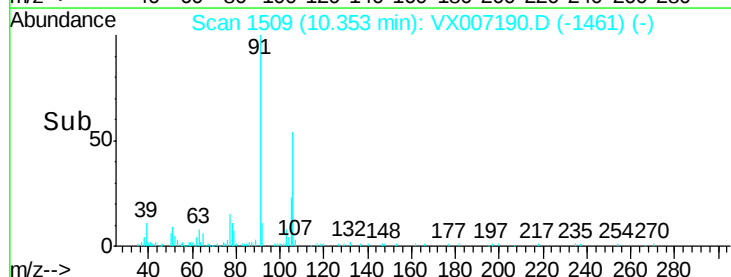
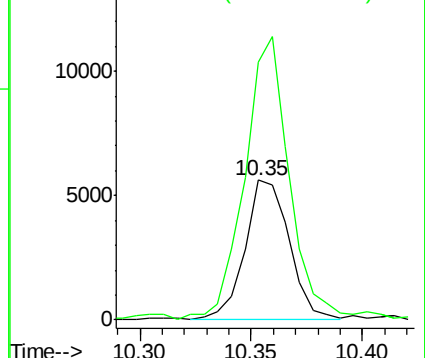
106 100

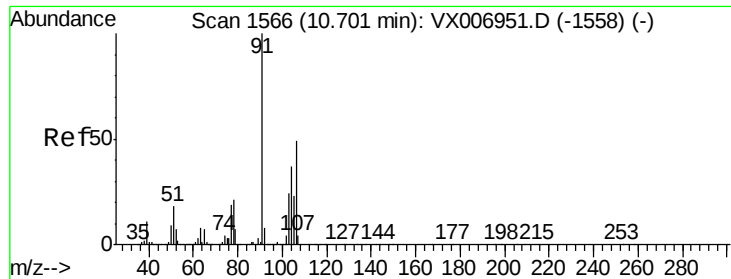
91 206.5 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

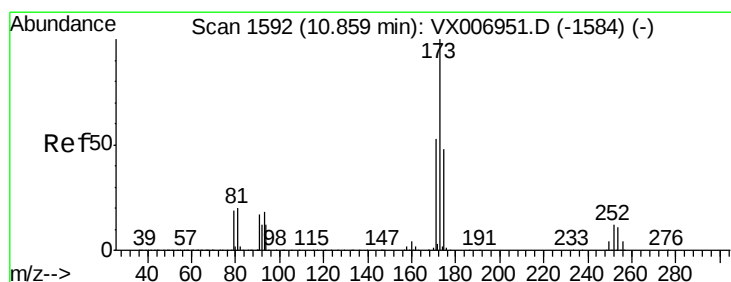
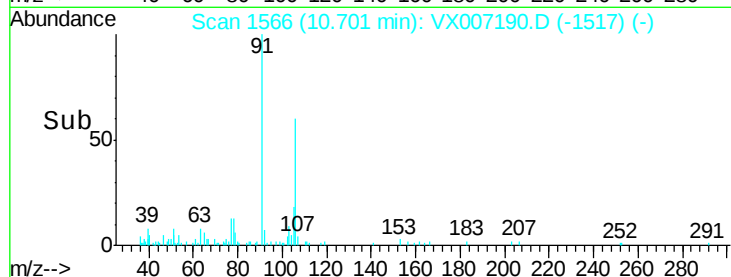
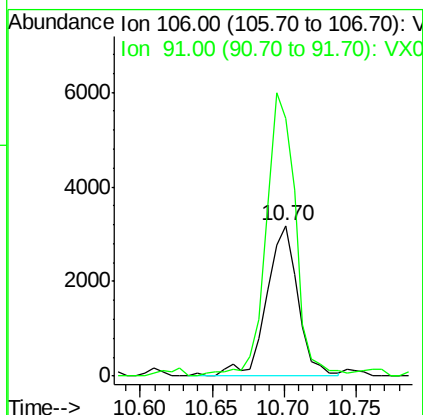
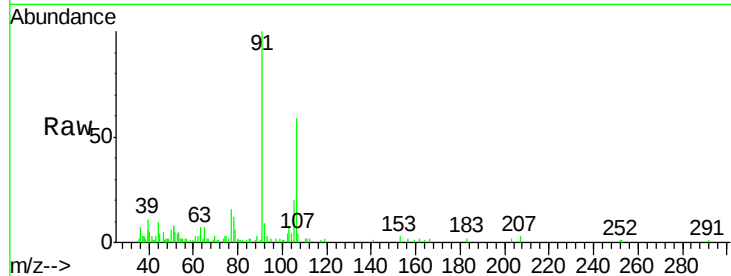




#69
o-Xylene
Concen: 0.470 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX007190.D
Acq: 22 Jan 2019 19:01

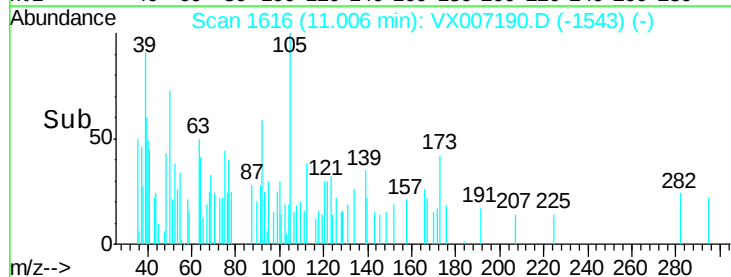
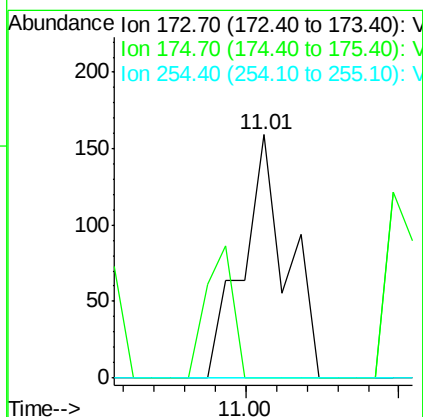
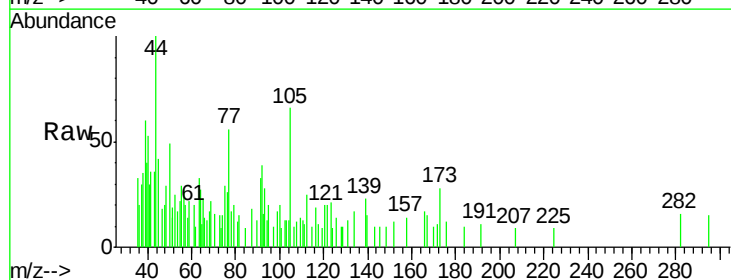
Instrument :
MSVOA_X
ClientSampleId :
SA-TW531-4246

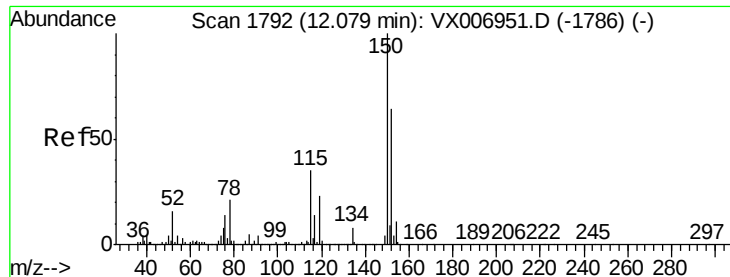
Tot Ion:106 Resp: 4824
Ion Ratio Lower Upper
106 100
91 175.1 101.3 303.7



#71
Bromoform
Concen: 4.757 ug/l
RT: 11.01 min Scan# 1616
Delta R.T. 0.15 min
Lab File: VX007190.D
Acq: 22 Jan 2019 19:01

Tgt Ion:173 Resp: 159
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

SA-TW531-4246

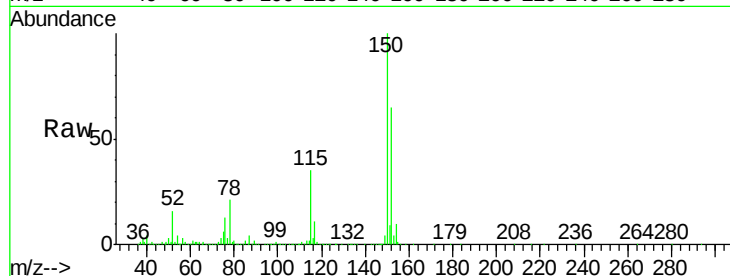
Tot Ion:152 Resp: 366889

Ion Ratio Lower Upper

152 100

115 55.5 39.1 117.2

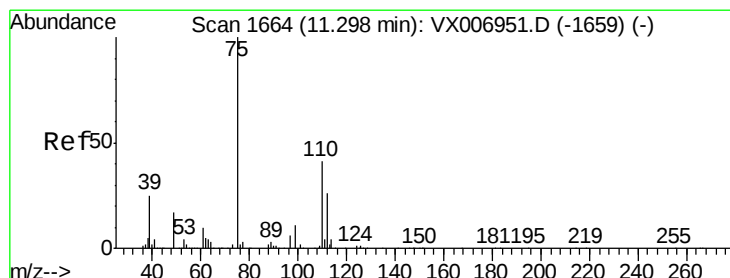
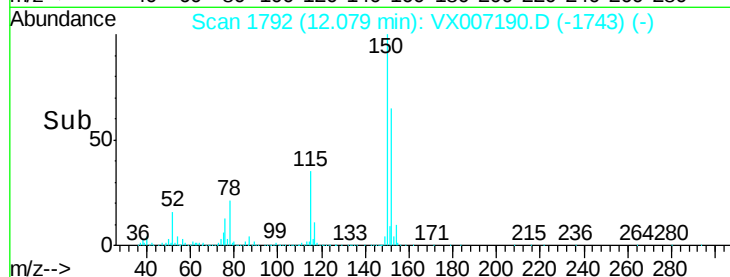
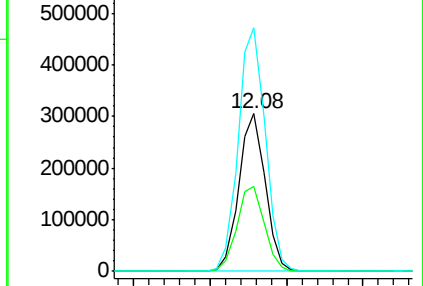
150 157.7 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 21.626 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007190.D

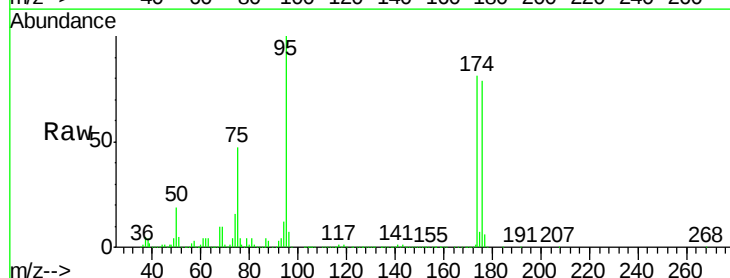
Acq: 22 Jan 2019 19:01

Tgt Ion: 75 Resp: 160783

Ion Ratio Lower Upper

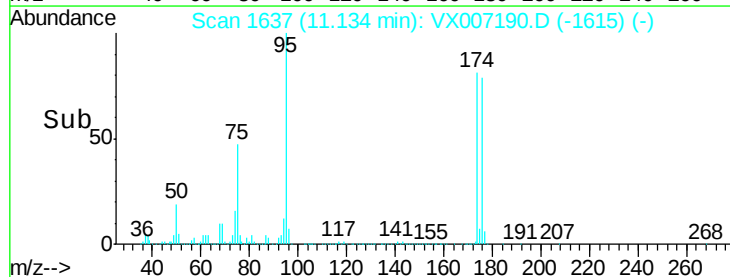
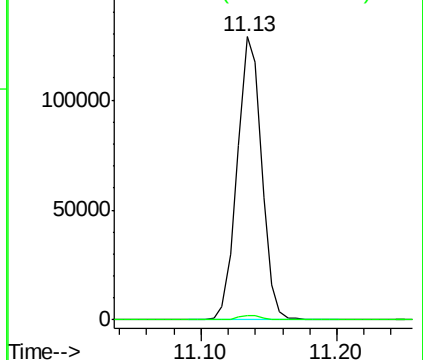
75 100

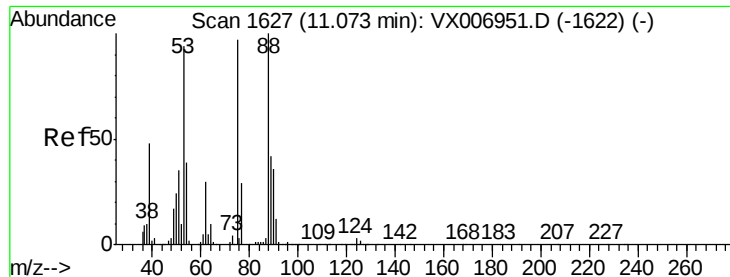
77 1.7 18.5 55.5#



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: 64.108 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

SA-TW531-4246

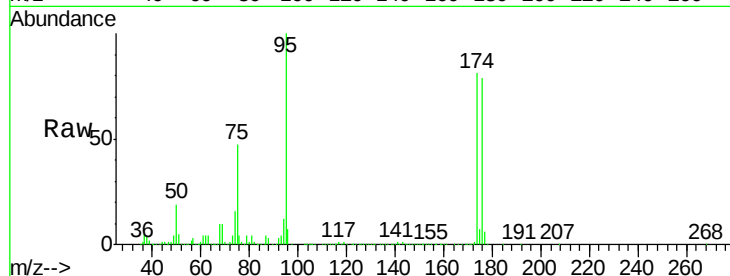
Tot Ion: 75 Resp: 160783

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

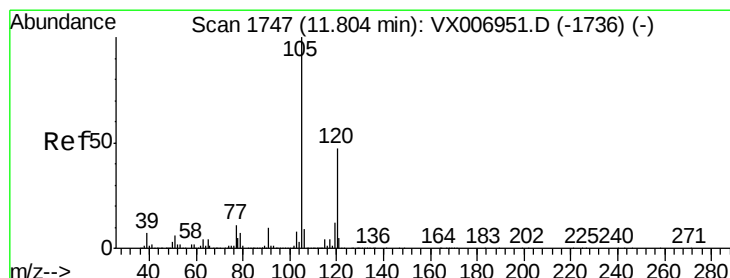
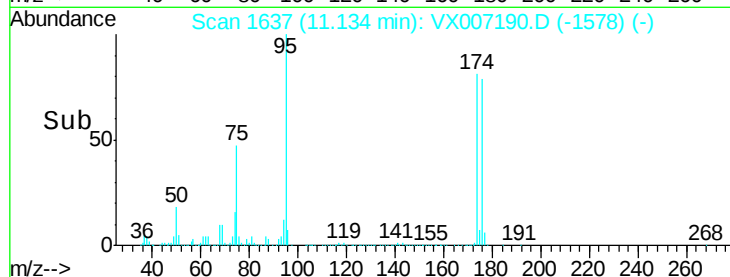
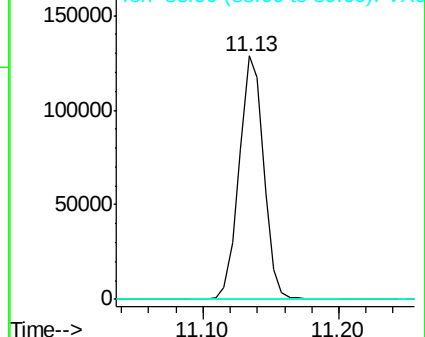
89 0.1 38.0 57.0#



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: 0.271 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX007190.D

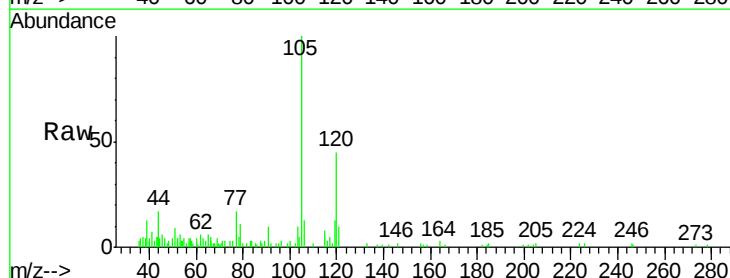
Acq: 22 Jan 2019 19:01

Tgt Ion: 105 Resp: 5886

Ion Ratio Lower Upper

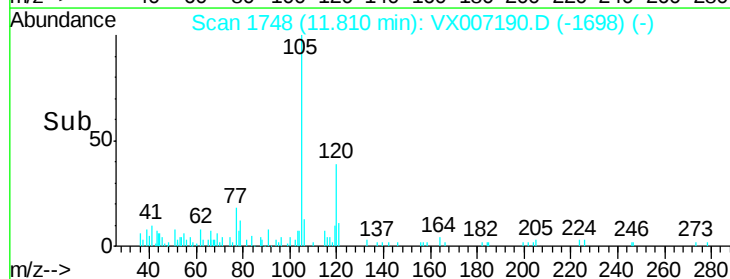
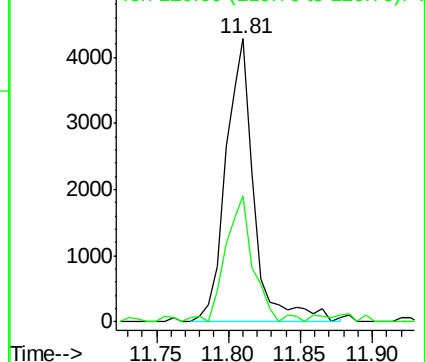
105 100

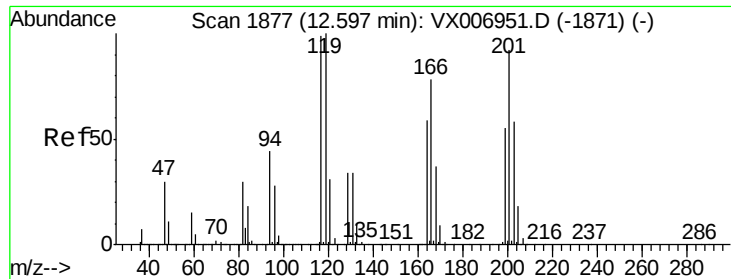
120 44.0 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.937 ug/l

RT: 12.52 min Scan# 1864

Delta R.T. -0.08 min

Lab File: VX007190.D

Acq: 22 Jan 2019 19:01

Instrument :

MSVOA_X

ClientSampleId :

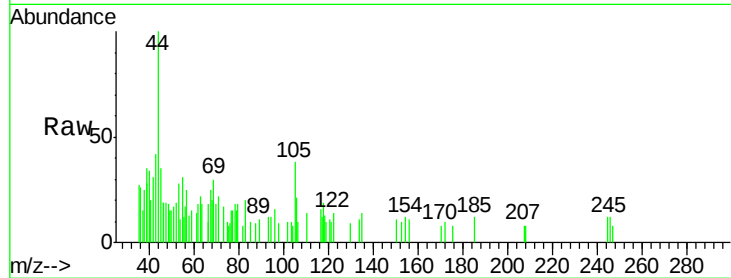
SA-TW531-4246

Tot Ion:117 Resp: 112

Ion Ratio Lower Upper

117 100

201 47.3 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

