

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100918\
 Data File : VX005194.D
 Acq On : 10 Oct 2018 07:53
 Operator : JC/MD
 Sample : J5303-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW514-4044

Quant Time: Oct 10 08:34:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	190162	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.86	114	283273	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	283798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	160788	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	142161	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
35) Dibromofluoromethane	5.50	113	117167	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	8.72	98	408055	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	11.14	95	147333	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	

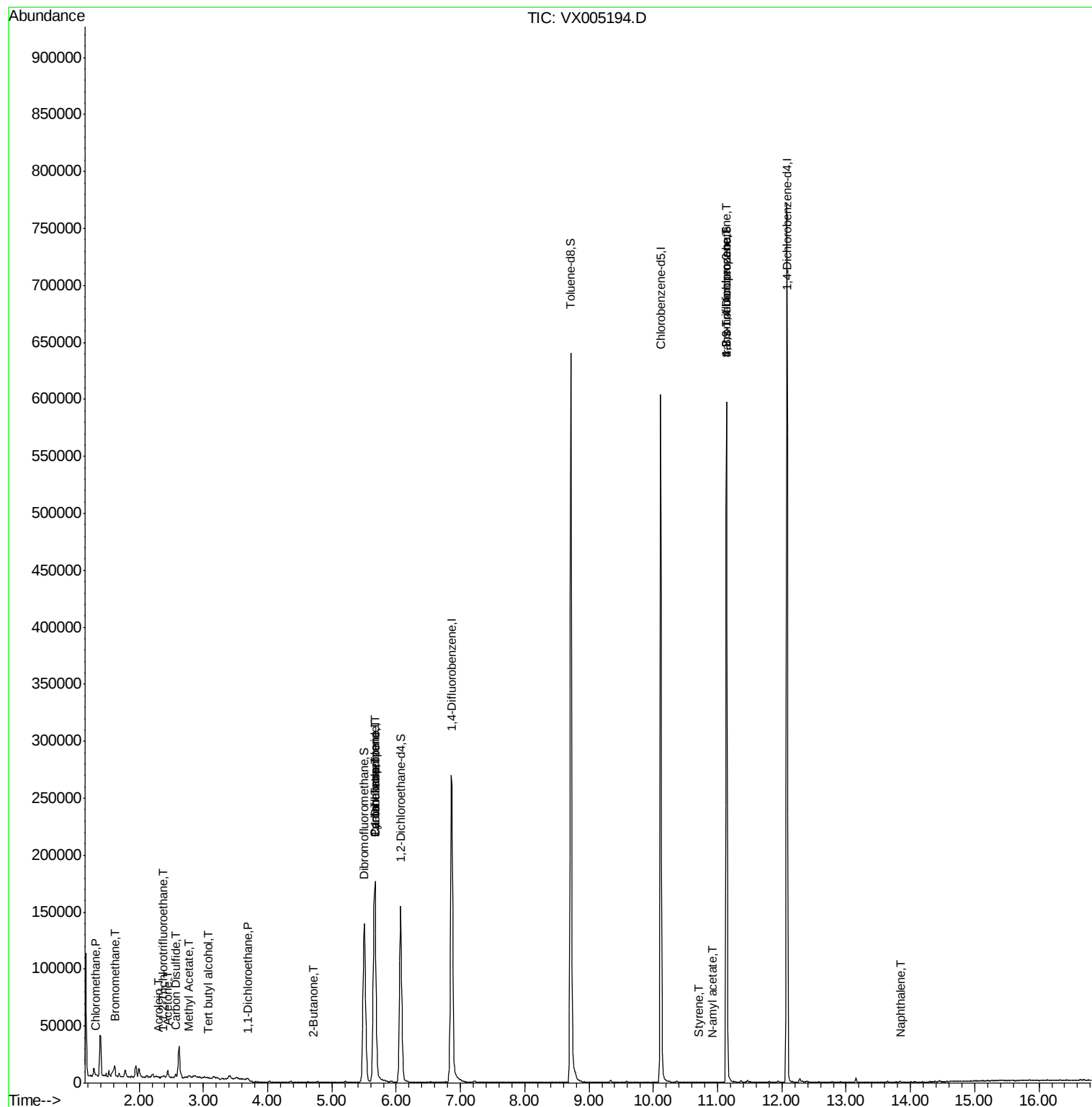
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	773	0.246	ug/l #	88
5) Bromomethane	1.62	94	602	0.344	ug/l #	26
6) Chloroethane	1.73	64	851	Below Cal		100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	463	0.223	ug/l #	76
11) Tert butyl alcohol	3.07	59	643	0.847	ug/l	96
13) Acrolein	2.29	56	291	0.538	ug/l #	71
16) Acetone	2.45	43	5708	3.599	ug/l #	66
17) Carbon Disulfide	2.57	76	3419	0.552	ug/l #	94
18) Methyl Acetate	2.78	43	830	0.207	ug/l #	86
20) Methylene Chloride	2.85	84	604	Below Cal		86
24) 1,1-Dichloroethane	3.69	63	1468	0.325	ug/l #	93
25) 2-Butanone	4.71	43	999	0.427	ug/l	99
31) Cyclohexane	5.67	56	3914	1.132	ug/l #	4
36) 1,1-Dichloropropene	5.66	75	12422	3.792	ug/l #	46
38) Carbon Tetrachloride	5.67	117	16315	4.738	ug/l #	19
70) Styrene	10.71	104	132	2.157	ug/l #	82
74) N-amyl acetate	10.91	43	102	1.766	ug/l #	73
76) 1,2,3-Trichloropropane	11.14	75	73362	20.357	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	180	Below Cal	#	47
81) trans-1,4-Dichloro-2-buten	11.14	75	73362	55.301	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	425	Below Cal		77
95) Naphthalene	13.84	128	401	0.749	ug/l #	75

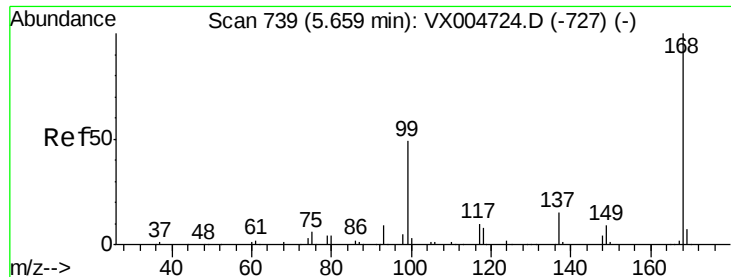
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

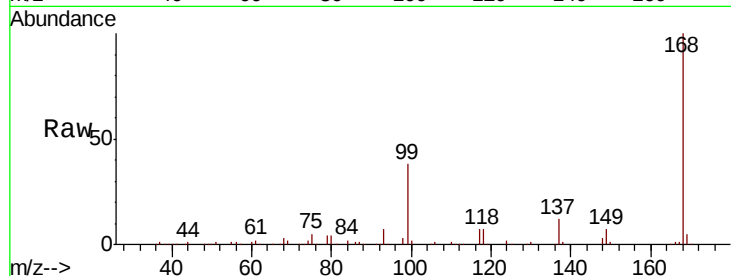
SA-TW514-4044

Tot Ion:168 Resp: 190162

Ion Ratio Lower Upper

168 100

99 38.3 39.3 58.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

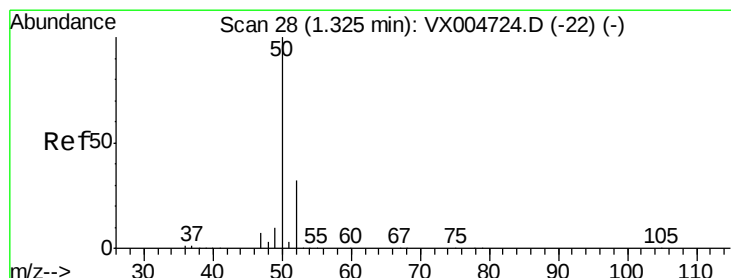
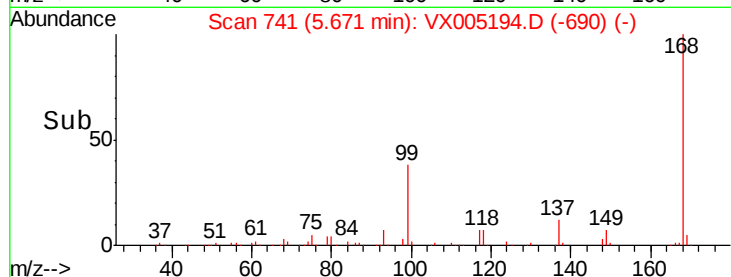
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.246 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005194.D

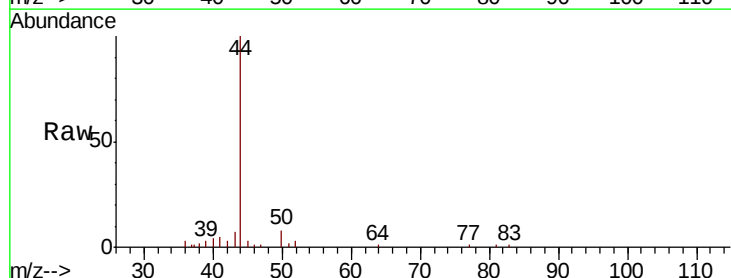
Acq: 10 Oct 2018 07:53

Tgt Ion: 50 Resp: 773

Ion Ratio Lower Upper

50 100

52 39.0 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

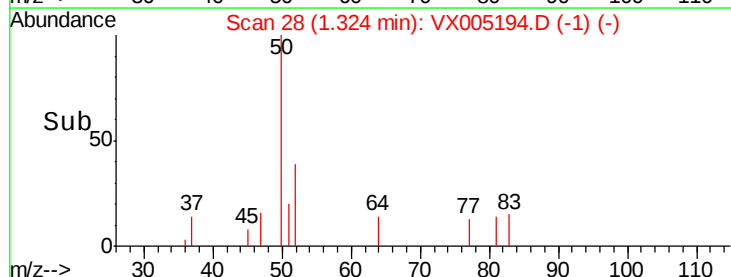
600

400

200

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.344 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

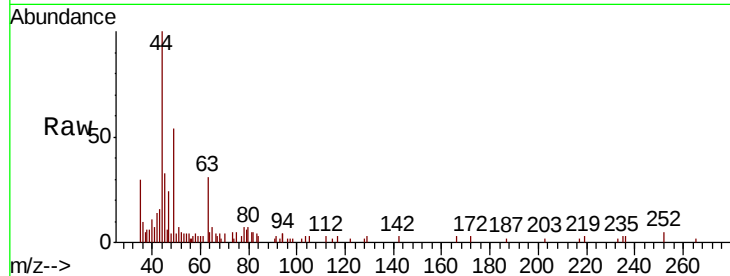
SA-TW514-4044

Tot Ion: 94 Resp: 602

Ion Ratio Lower Upper

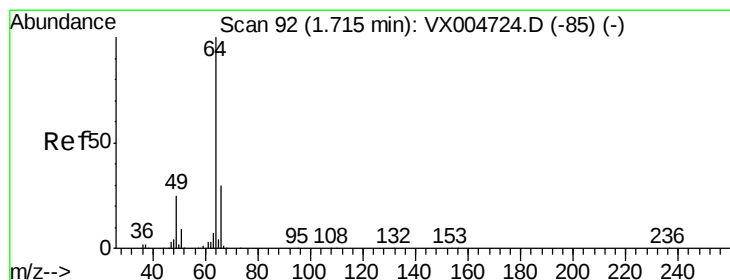
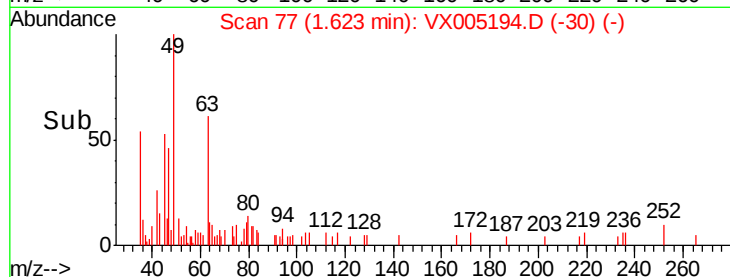
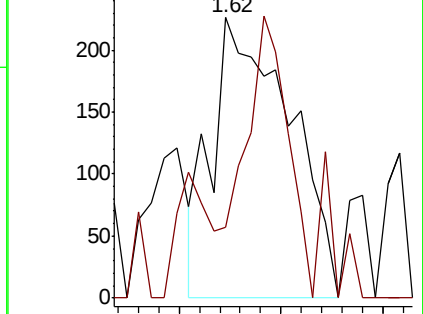
94 100

96 25.2 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX005194.D

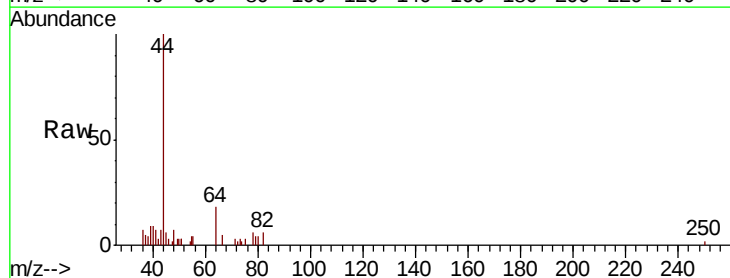
Acq: 10 Oct 2018 07:53

Tgt Ion: 64 Resp: 851

Ion Ratio Lower Upper

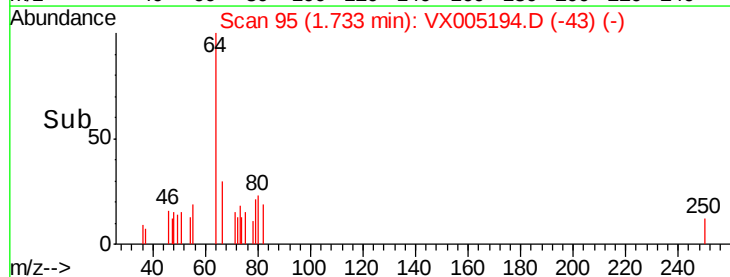
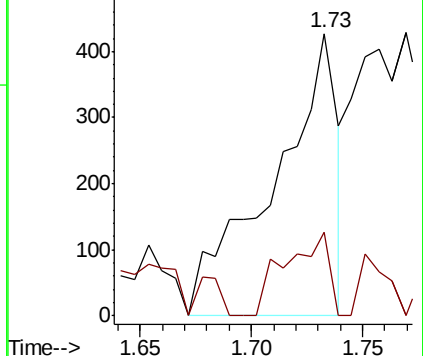
64 100

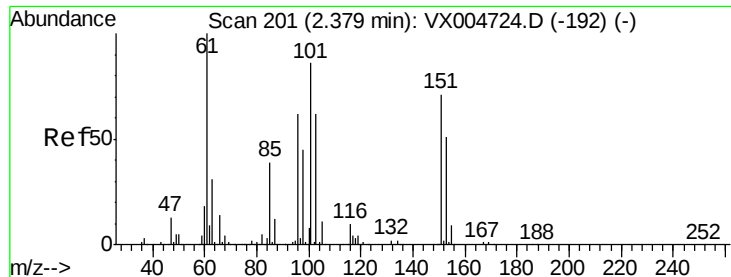
66 29.7 23.8 35.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.223 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

SA-TW514-4044

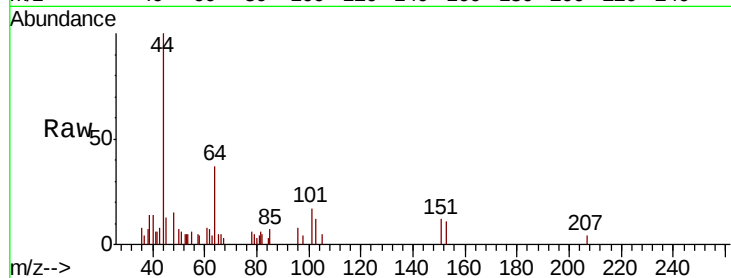
Tot Ion:101 Resp: 463

Ion Ratio Lower Upper

101 100

85 47.1 35.9 53.9

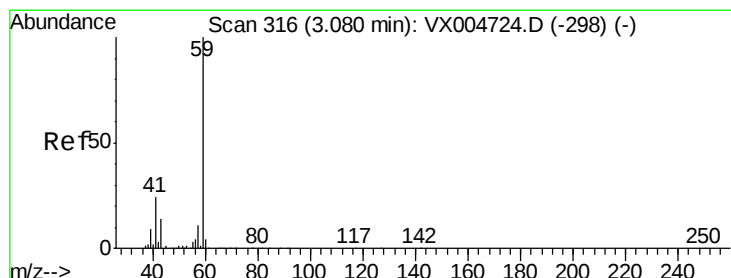
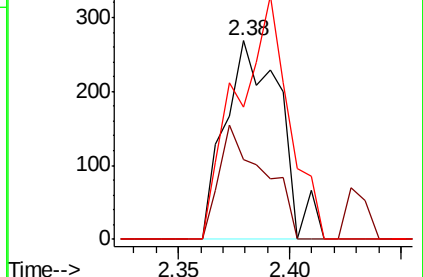
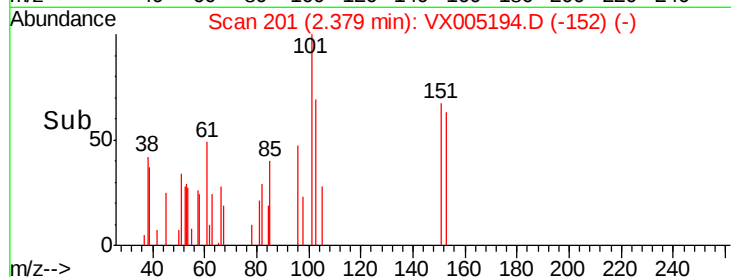
151 115.1 66.6 100.0#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.847 ug/l

RT: 3.07 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX005194.D

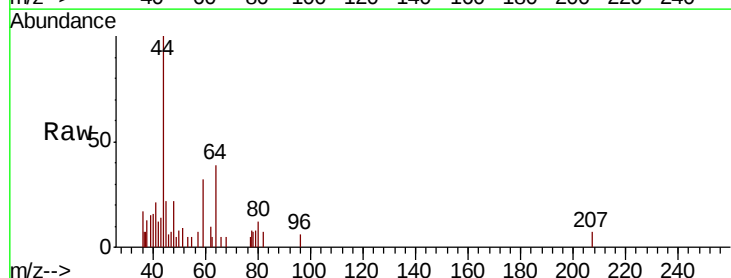
Acq: 10 Oct 2018 07:53

Tgt Ion: 59 Resp: 643

Ion Ratio Lower Upper

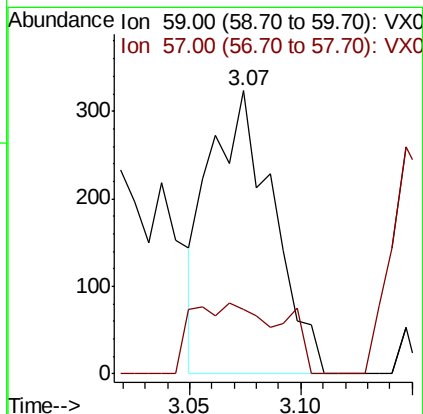
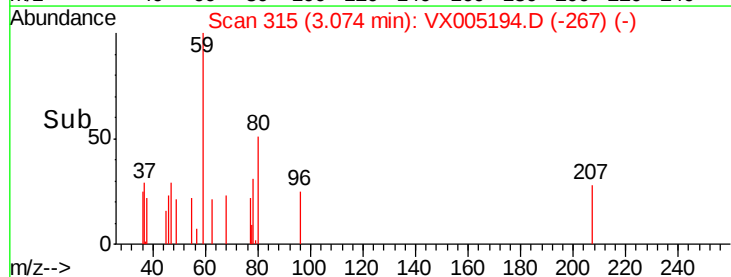
59 100

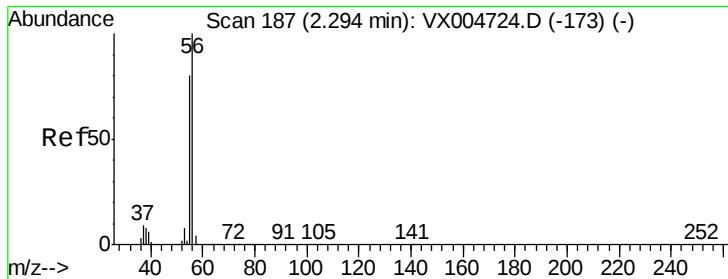
57 12.3 8.6 12.8



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.538 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

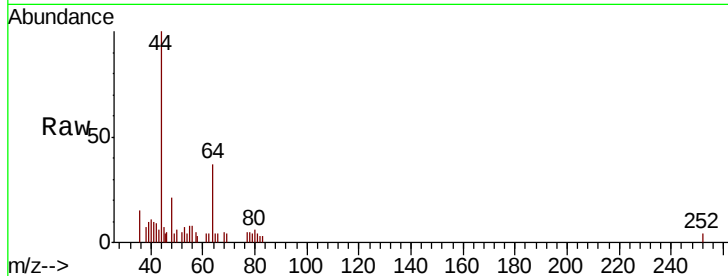
SA-TW514-4044

Tot Ion: 56 Resp: 291

Ion Ratio Lower Upper

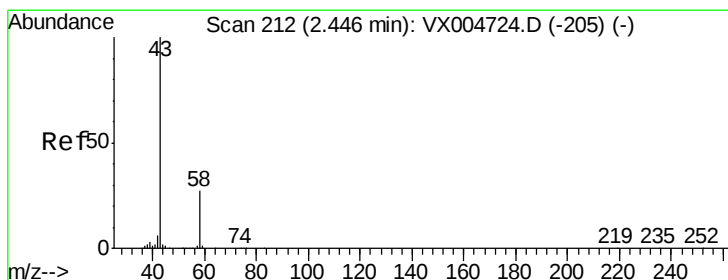
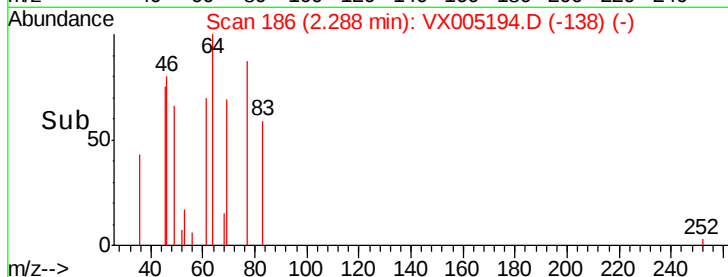
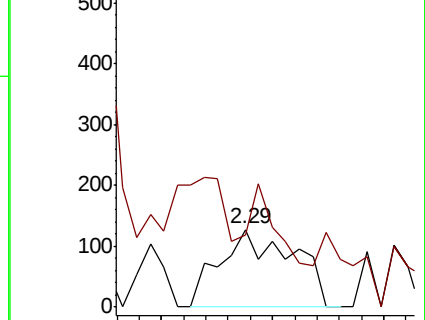
56 100

55 53.6 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.599 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005194.D

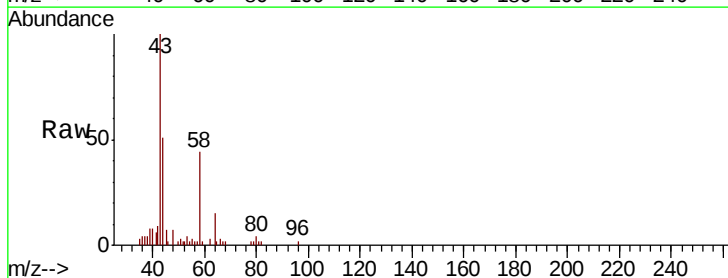
Acq: 10 Oct 2018 07:53

Tgt Ion: 43 Resp: 5708

Ion Ratio Lower Upper

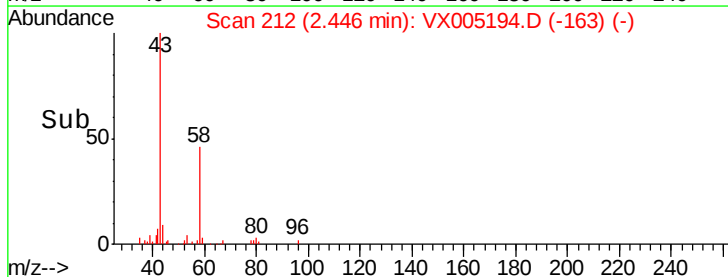
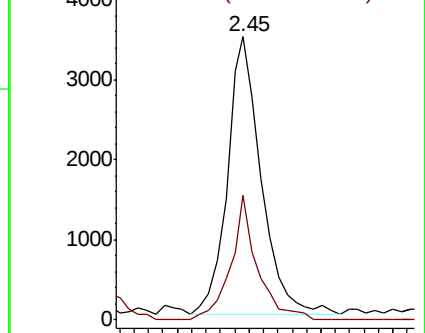
43 100

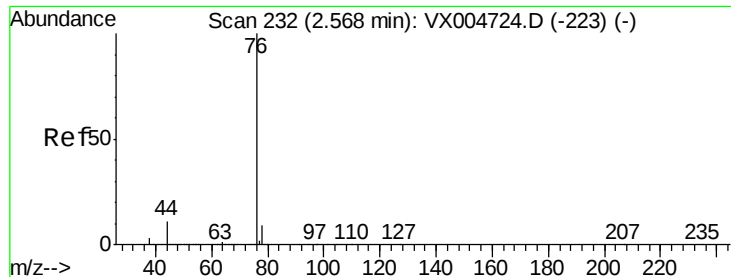
58 45.1 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

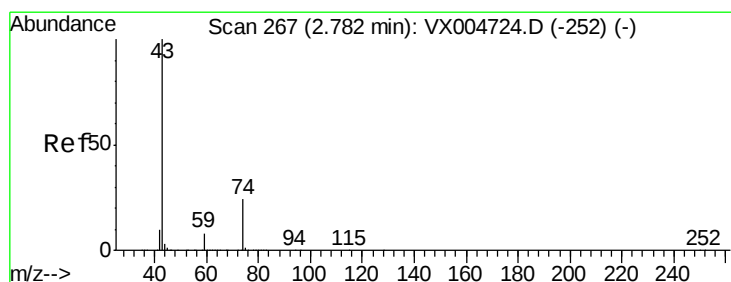
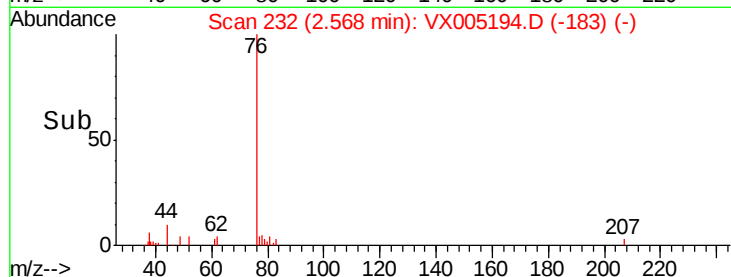
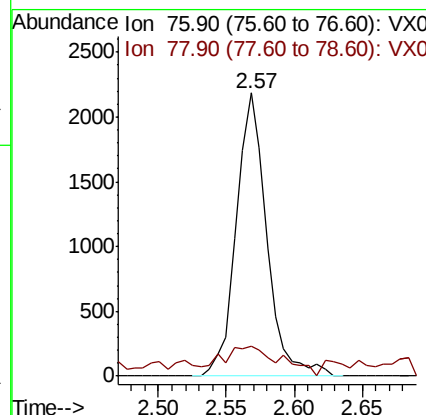
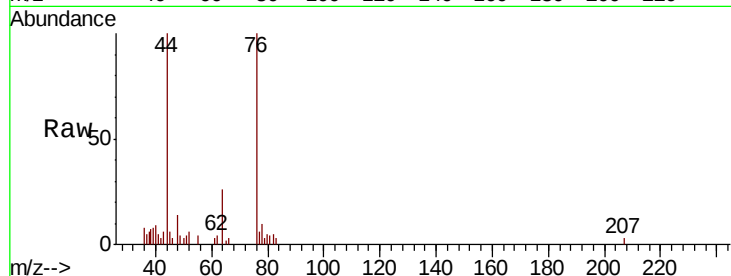




#17
Carbon Disulfide
Concen: 0.552 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.00 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

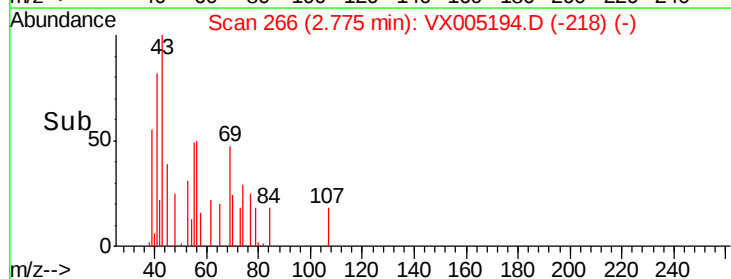
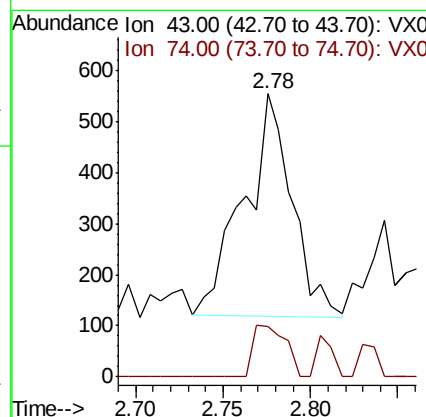
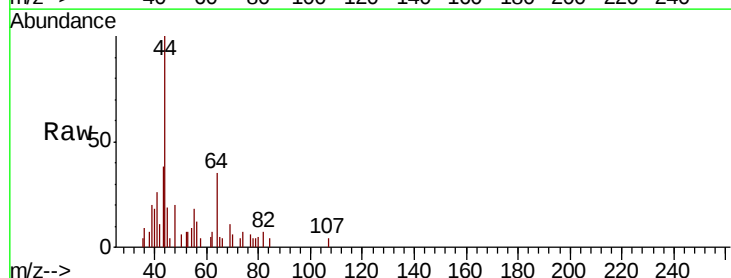
Instrument :
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SA-TW514-4044

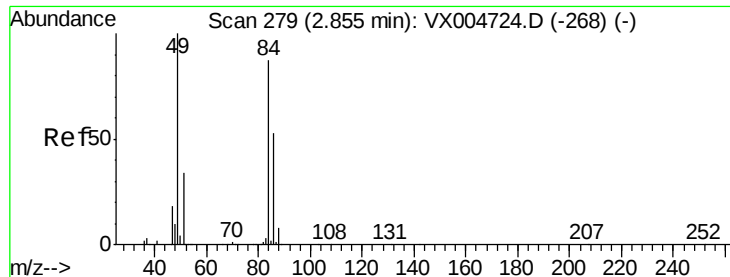
Tot Ion: 76 Resp: 3419
Ion Ratio Lower Upper
76 100
78 6.5 7.0 10.6#



#18
Methyl Acetate
Concen: 0.207 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Tgt Ion: 43 Resp: 830
Ion Ratio Lower Upper
43 100
74 15.7 17.8 26.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

SA-TW514-4044

Tot Ion: 84 Resp: 604

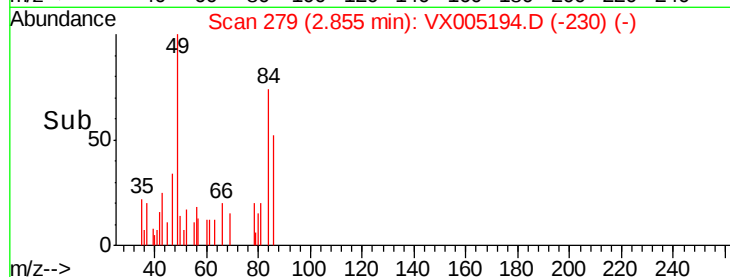
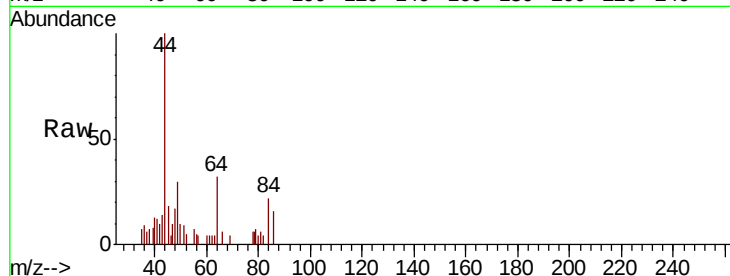
Ion	Ratio	Lower	Upper
84	100		
49	135.8	92.3	138.5
51	38.6	31.8	47.6
86	70.1	48.5	72.7

84 100

49 135.8 92.3 138.5

51 38.6 31.8 47.6

86 70.1 48.5 72.7

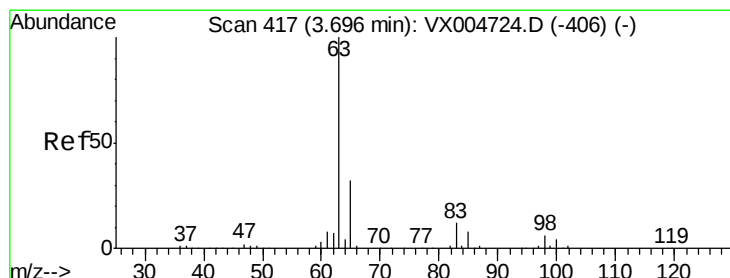
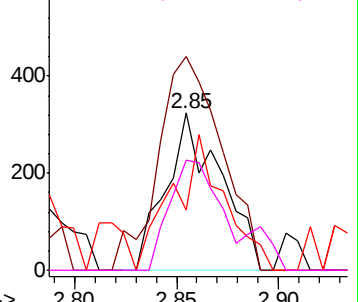


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#24

1,1-Dichloroethane

Concen: 0.325 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

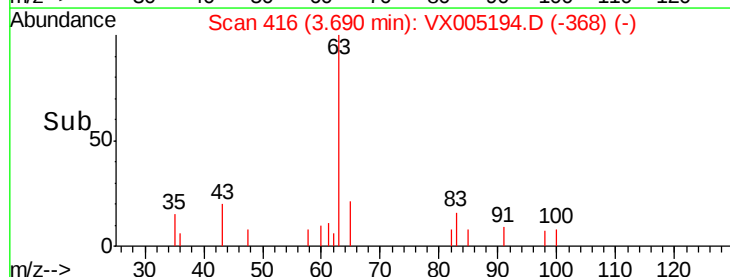
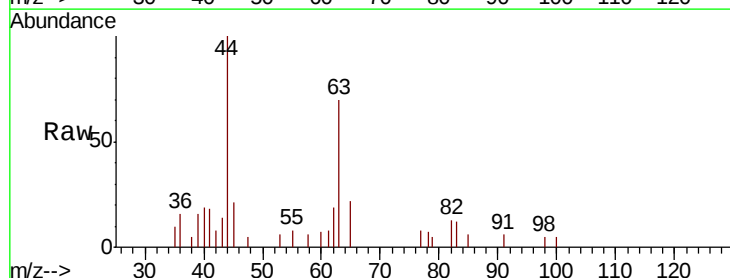
Tgt Ion: 63 Resp: 1468

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.0	9.2
100	7.8	2.0	5.8#

63 100

98 7.4 3.0 9.2

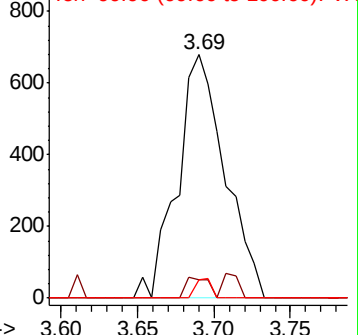
100 7.8 2.0 5.8#

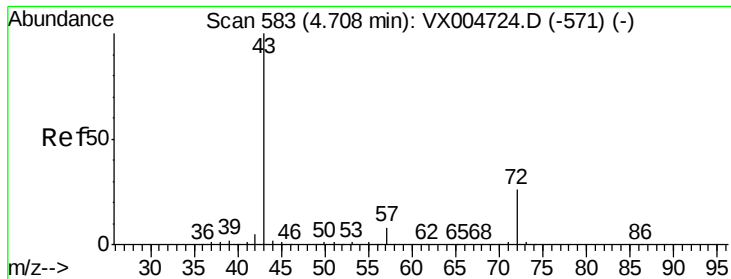


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 0.427 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

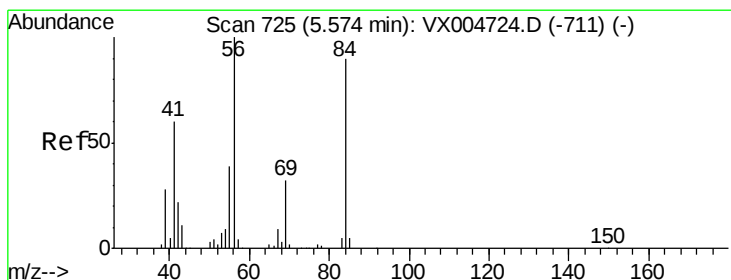
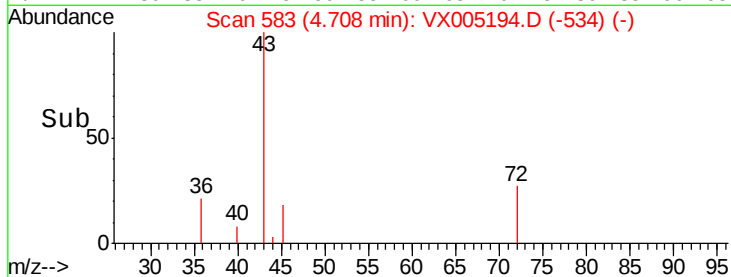
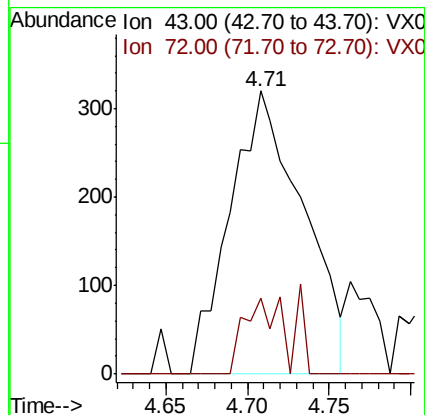
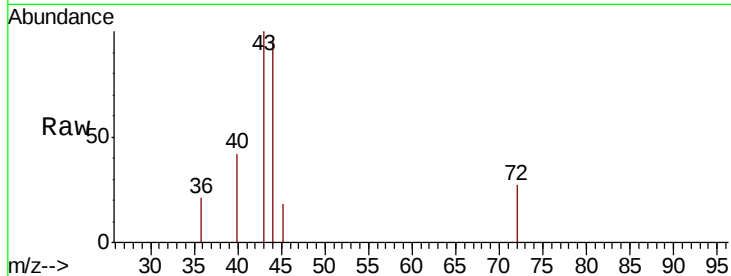
SA-TW514-4044

Tot Ion: 43 Resp: 999

Ion Ratio Lower Upper

43 100

72 26.6 20.8 31.2



#31

Cyclohexane

Concen: 1.132 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

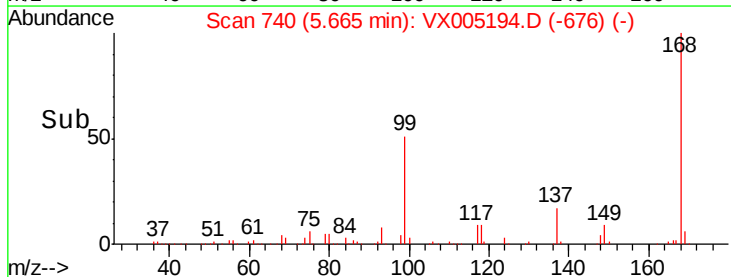
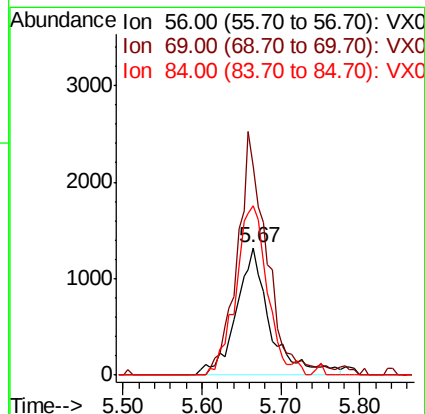
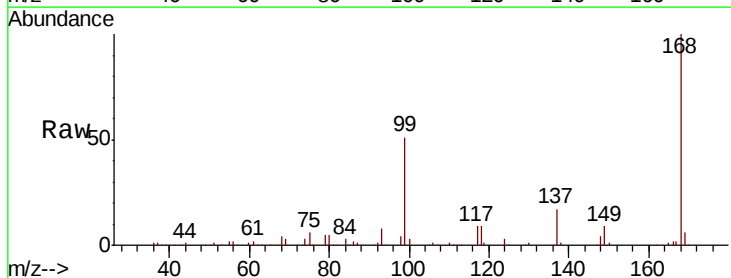
Tgt Ion: 56 Resp: 3914

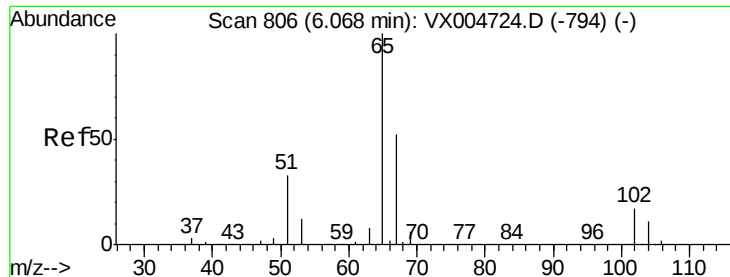
Ion Ratio Lower Upper

56 100

69 164.4 25.9 38.9#

84 133.3 71.9 107.9#





#33

1,2-Dichloroethane-d4

Concen: 52.333 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

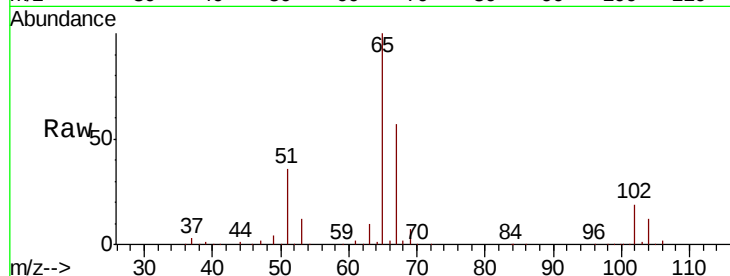
SA-TW514-4044

Tot Ion: 65 Resp: 142161

Ion Ratio Lower Upper

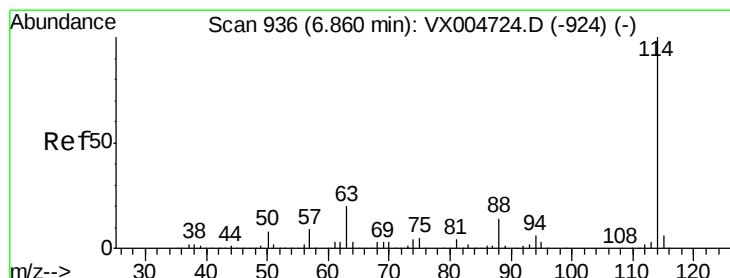
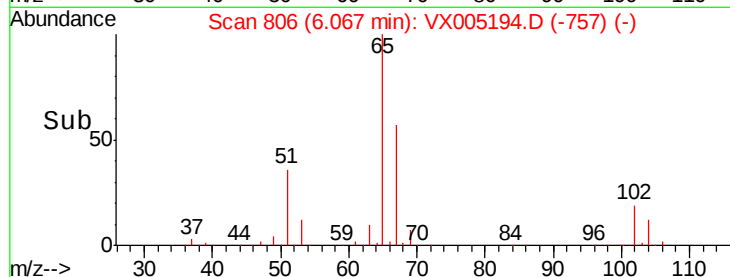
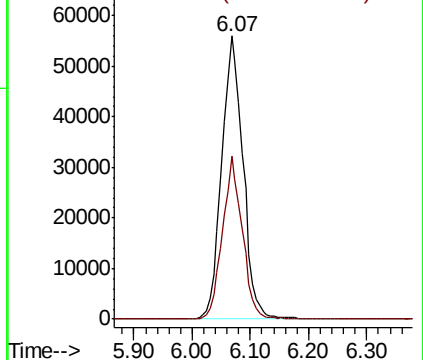
65 100

67 53.6 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

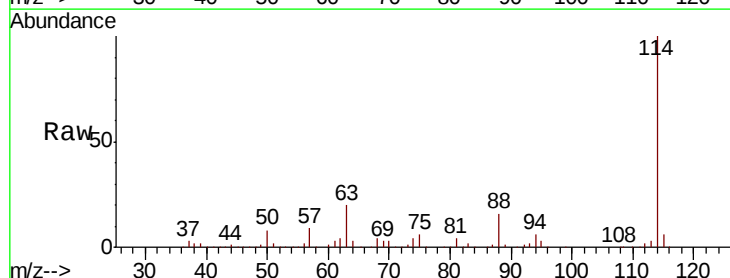
Tgt Ion: 114 Resp: 283273

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.8

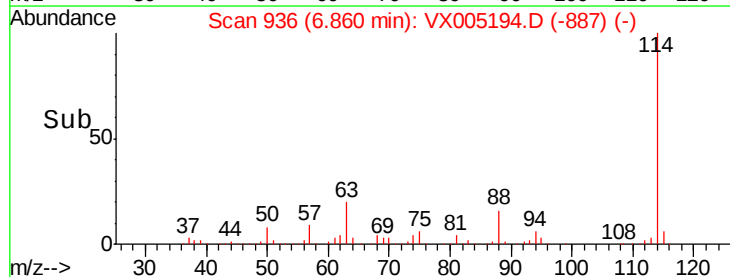
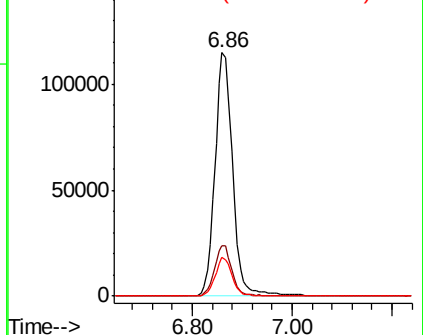
88 15.9 0.0 27.0

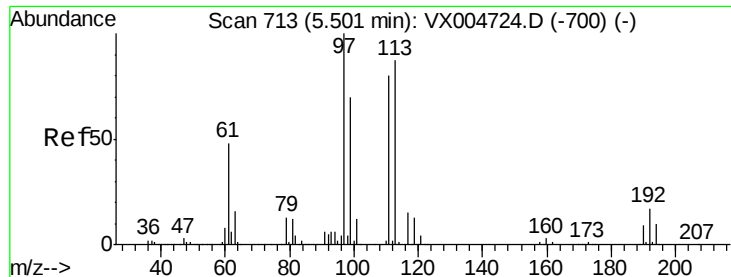


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.804 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

SA-TW514-4044

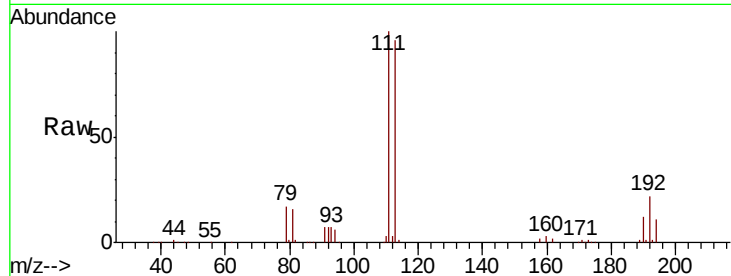
Tot Ion:113 Resp: 117167

Ion Ratio Lower Upper

113 100

111 103.3 77.0 115.4

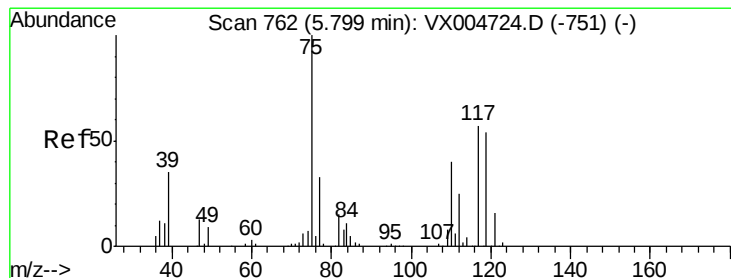
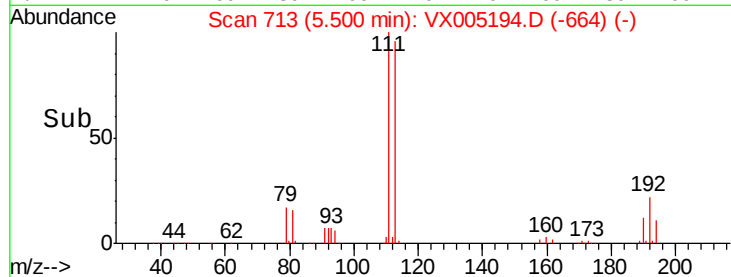
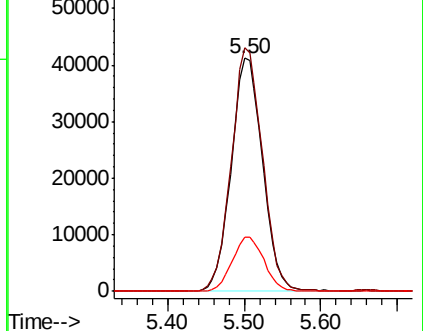
192 23.6 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.792 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

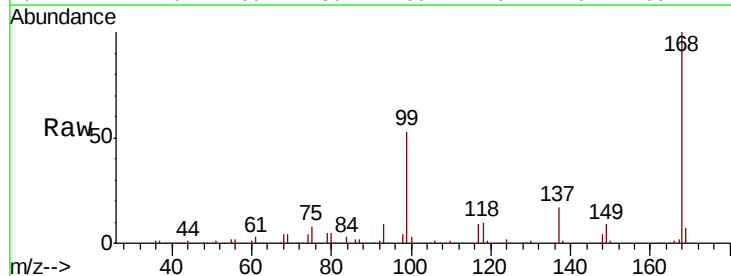
Tgt Ion: 75 Resp: 12422

Ion Ratio Lower Upper

75 100

110 9.5 20.0 59.9#

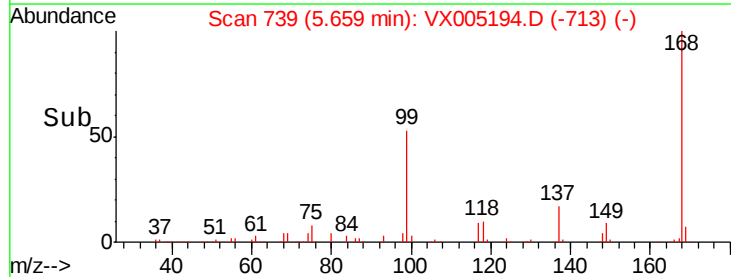
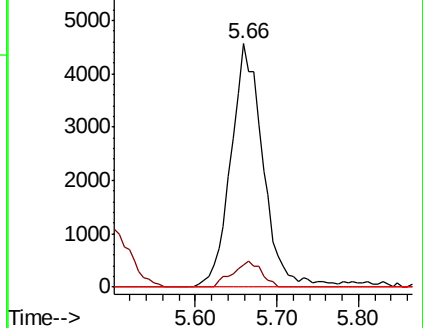
77 0.0 27.1 40.7#

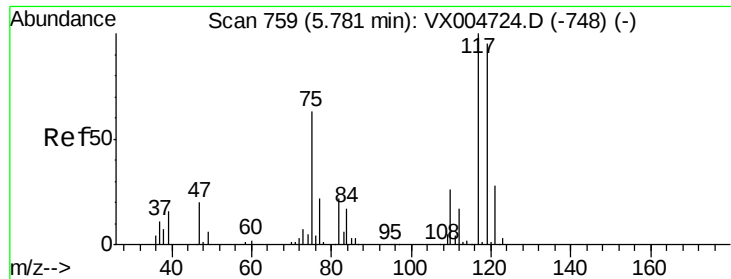


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

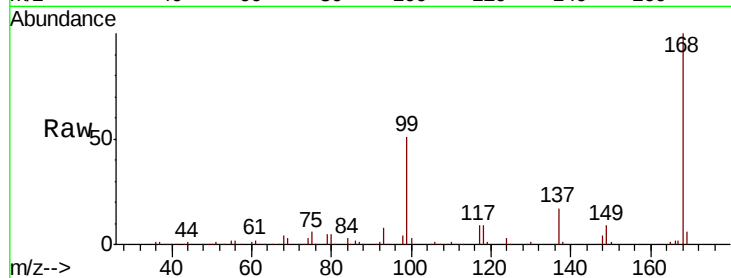




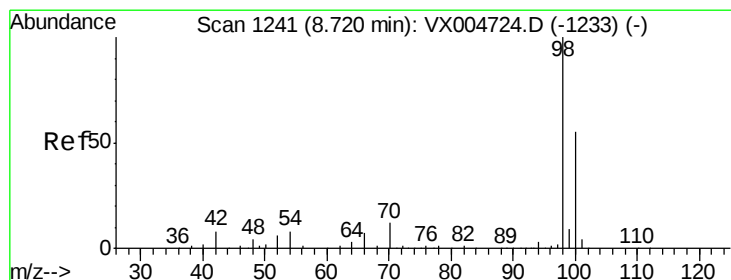
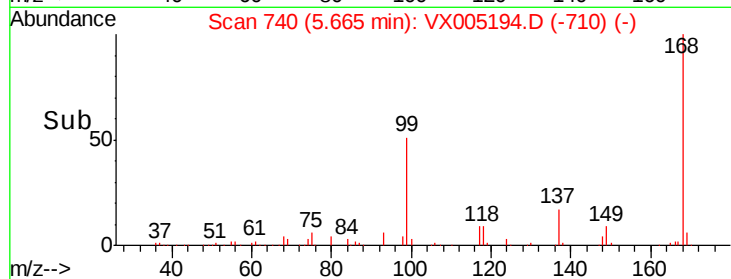
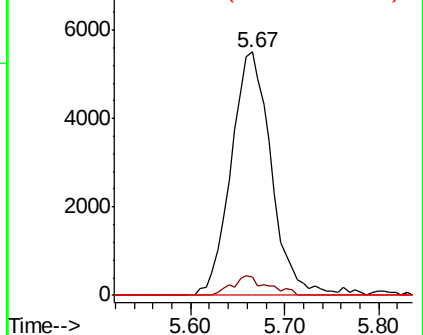
#38
Carbon Tetrachloride
Concen: 4.738 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Instrument :
MSVOA_X
ClientSampleId :
SA-TW514-4044

Tot Ion:117 Resp: 16315
Ion Ratio Lower Upper
117 100
119 7.3 75.2 112.8#
121 0.0 22.5 33.7#

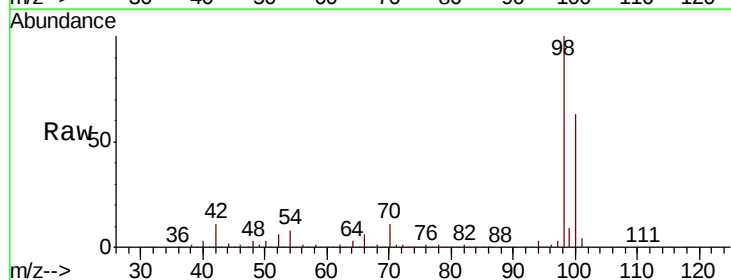


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

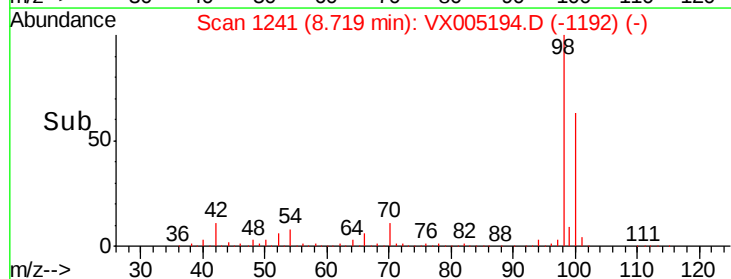
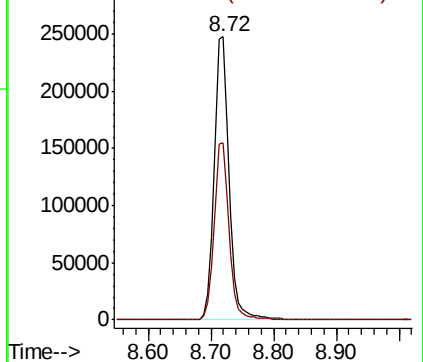


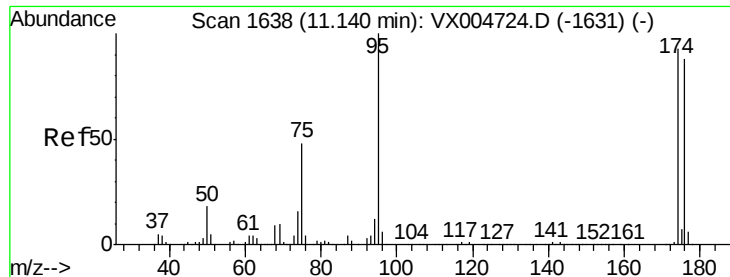
#50
Toluene-d8
Concen: 51.126 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Tgt Ion: 98 Resp: 408055
Ion Ratio Lower Upper
98 100
100 62.8 51.9 77.9



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

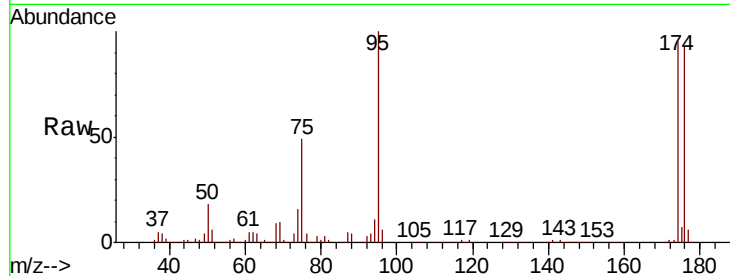




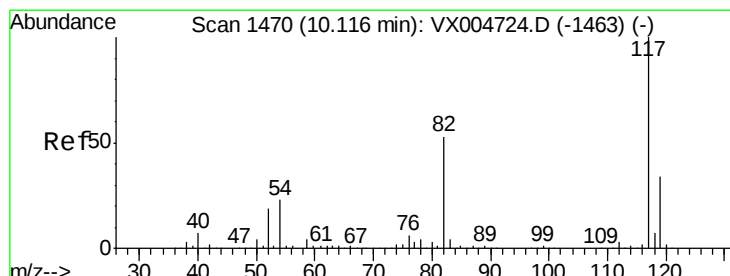
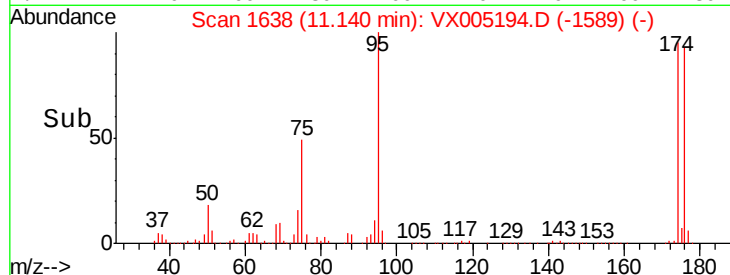
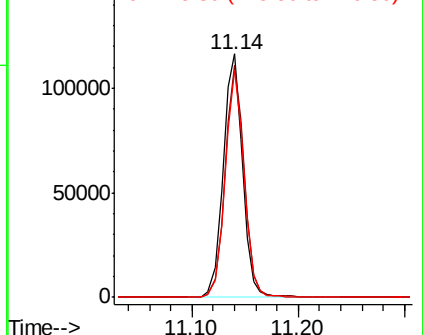
#62
4-Bromofluorobenzene
Concen: 51.240 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Instrument :
MSVOA_X
ClientSampleId :
SA-TW514-4044

Tot Ion: 95 Resp: 147333
Ion Ratio Lower Upper
95 100
174 94.9 0.0 185.0
176 91.6 0.0 180.2

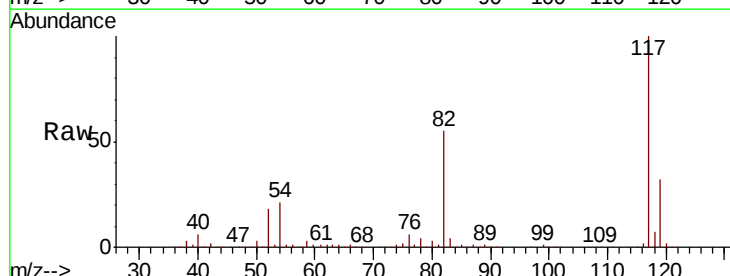


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

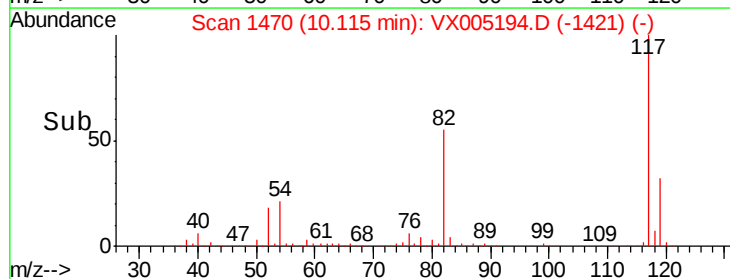
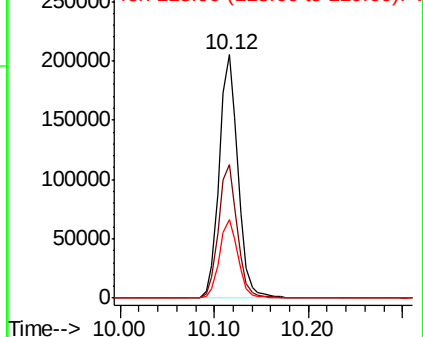


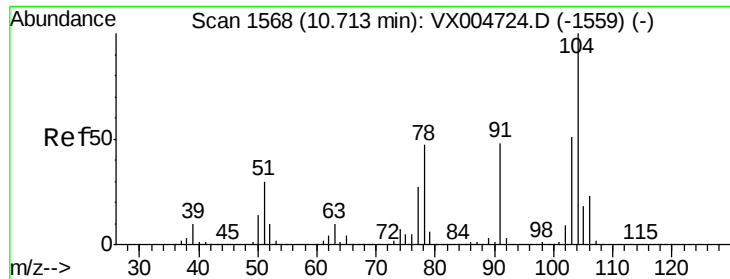
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Tgt Ion: 117 Resp: 283798
Ion Ratio Lower Upper
117 100
82 55.0 42.2 63.4
119 32.2 27.4 41.0



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

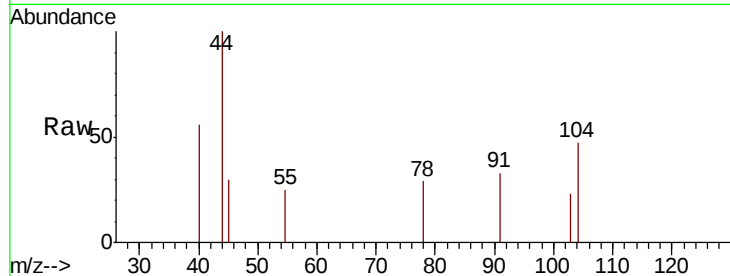




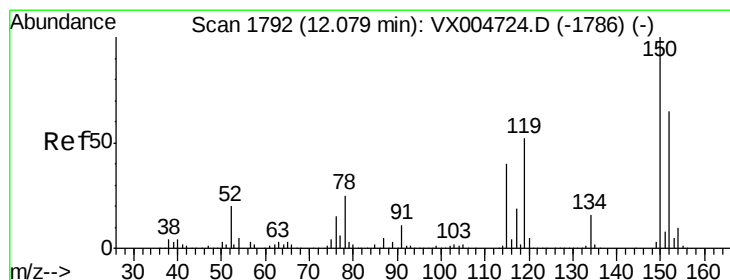
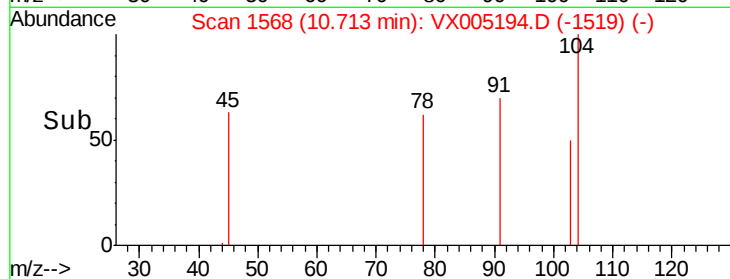
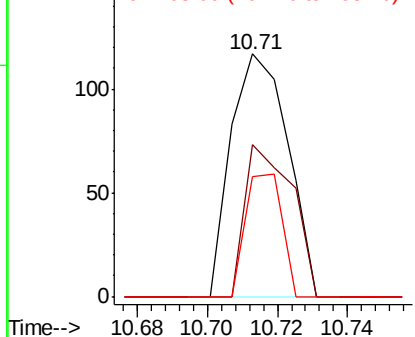
#70
Stvrene
Concen: 2.157 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Instrument :
MSVOA_X
ClientSampleId :
SA-TW514-4044

Tot Ion:104 Resp: 132
Ion Ratio Lower Upper
104 100
78 51.5 40.0 60.0
103 32.6 44.3 66.5#

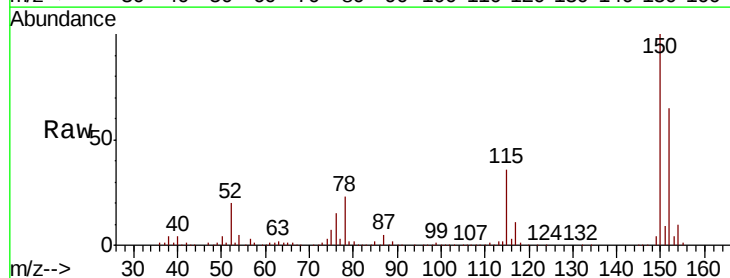


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V

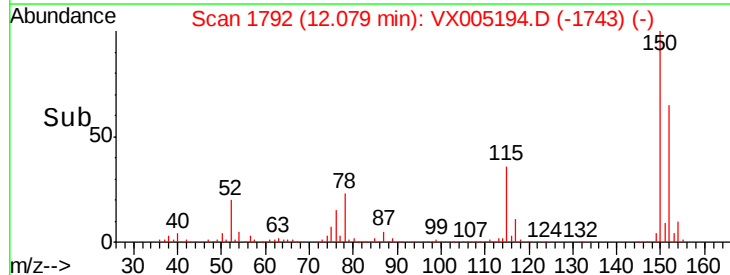
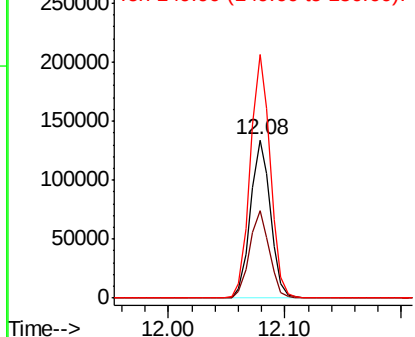


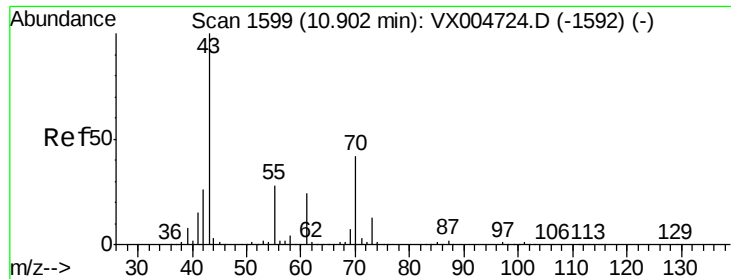
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Tgt Ion:152 Resp: 160788
Ion Ratio Lower Upper
152 100
115 54.8 40.2 120.6
150 154.2 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.766 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX005194.D

Acq: 10 Oct 2018 07:53

Instrument :

MSVOA_X

ClientSampleId :

SA-TW514-4044

Tot Ion: 43 Resp: 102

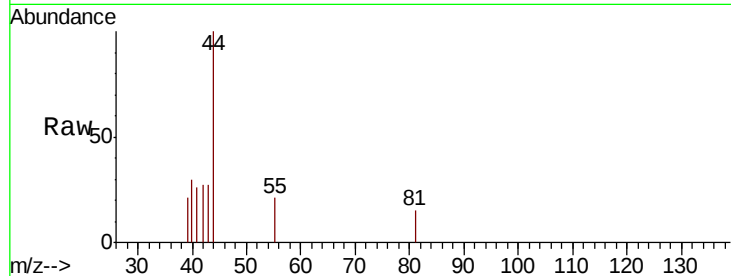
Ion Ratio Lower Upper

43 100

70 43.1 32.6 48.8

55 50.0 21.6 32.4#

61 0.0 19.1 28.7#

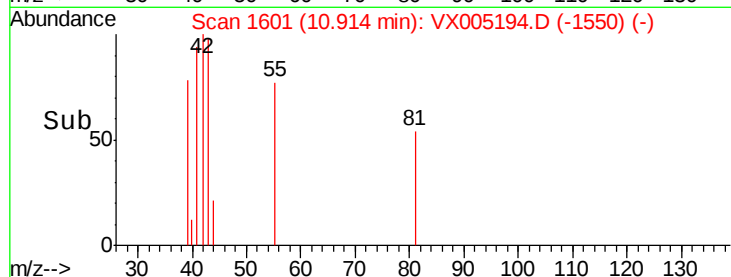


Abundance Ion 43.00 (42.70 to 43.70): VX0

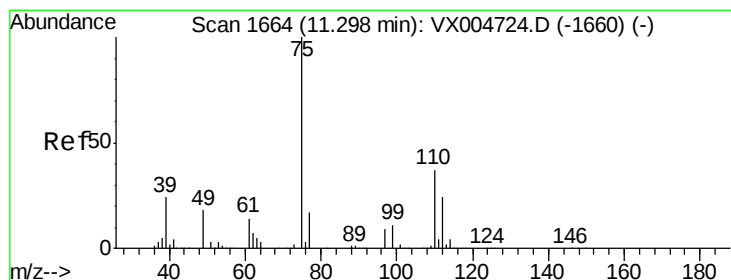
Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 20.357 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005194.D

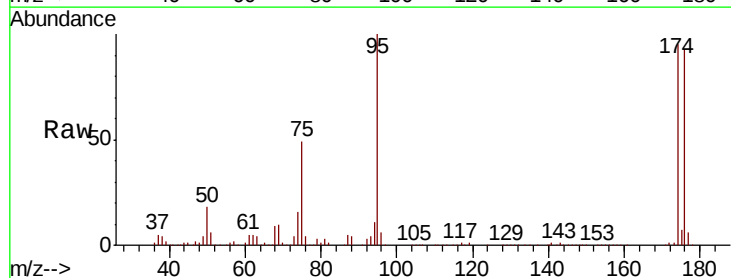
Acq: 10 Oct 2018 07:53

Tgt Ion: 75 Resp: 73362

Ion Ratio Lower Upper

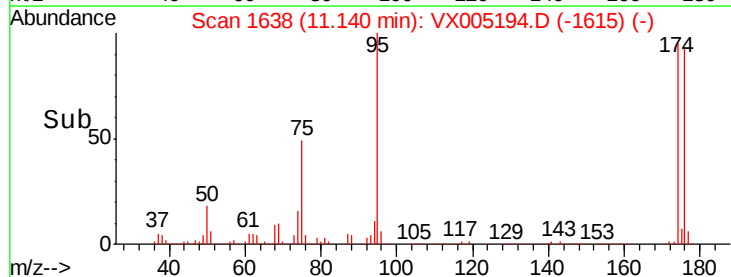
75 100

77 1.3 21.4 64.3#

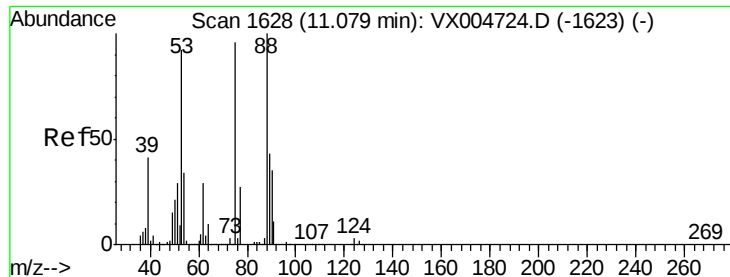


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



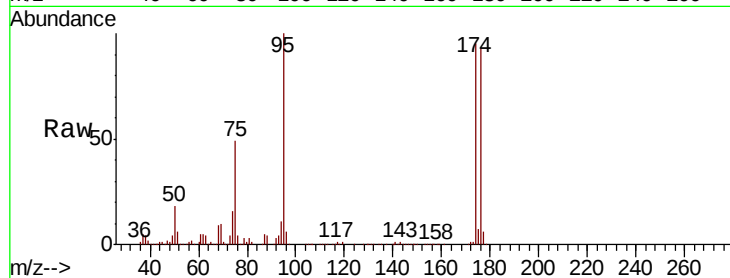
Time-->



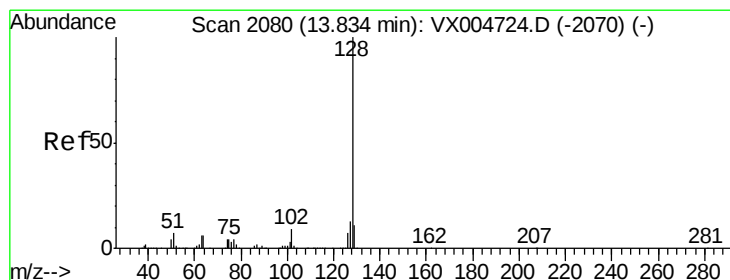
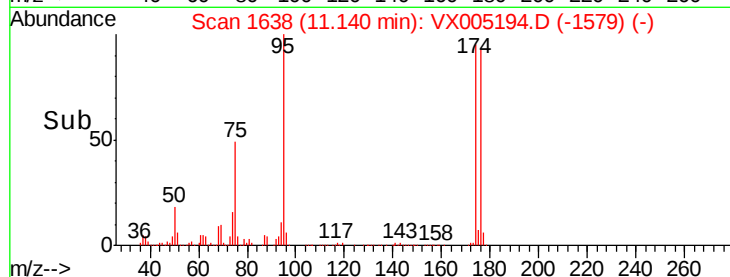
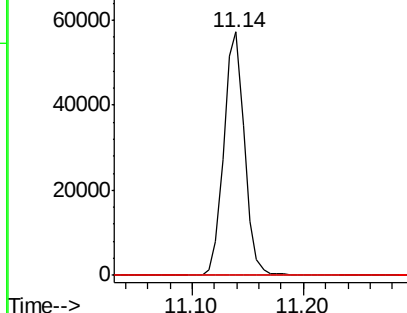
#81
trans-1,4-Dichloro-2-butene
Concen: 55.301 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Instrument :
MSVOA_X
ClientSampleId :
SA-TW514-4044

Tot Ion: 75 Resp: 73362
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 0.0 37.1 55.7#

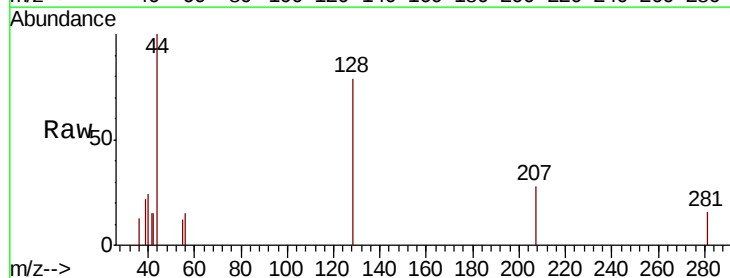


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 0.749 ug/l
RT: 13.84 min Scan# 2081
Delta R.T. 0.01 min
Lab File: VX005194.D
Acq: 10 Oct 2018 07:53

Tgt Ion:128 Resp: 401
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 5.2 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

