

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102518\
 Data File : VX005591.D
 Acq On : 25 Oct 2018 16:03
 Operator : JC/MD
 Sample : J5677-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-TB-2018-2

Quant Time: Oct 26 05:23:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	200901	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	299802	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	272124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	129919	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	129960	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	
35) Dibromofluoromethane	5.50	113	104710	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
50) Toluene-d8	8.71	98	363273	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	11.14	95	119655	43.44	ug/l	0.00
Spiked Amount			Recovery	=	86.88%	

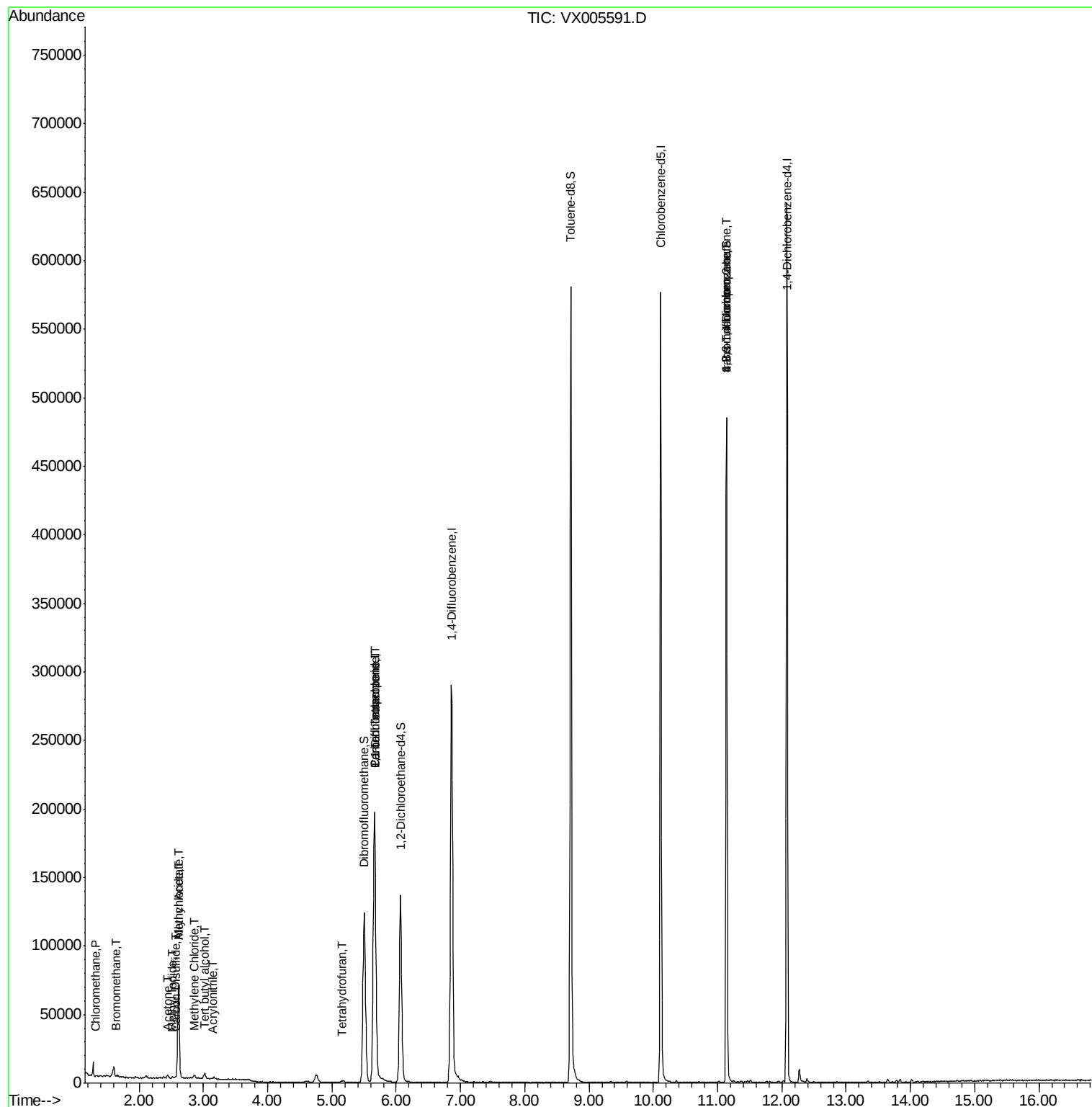
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	619	0.245	ug/l	99
5) Bromomethane	1.65	94	456	0.295	ug/l #	59
10) Methyl Iodide	2.52	142	736	3.062	ug/l	99
11) Tert butyl alcohol	3.03	59	2375	3.599	ug/l #	86
14) Allyl chloride	2.61	41	6702	1.592	ug/l #	68
15) Acrylonitrile	3.14	53	680	0.460	ug/l #	59
16) Acetone	2.45	43	2552	1.969	ug/l	100
17) Carbon Disulfide	2.57	76	1526	0.265	ug/l #	93
18) Methyl Acetate	2.62	43	17748	4.205	ug/l #	55
20) Methylene Chloride	2.86	84	893	0.411	ug/l	93
29) Tetrahydrofuran	5.17	42	1252	0.975	ug/l #	70
36) 1,1-Dichloropropene	5.66	75	14161	4.867	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18661	6.090	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	61266	22.257	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	61266	72.725	ug/l #	9

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

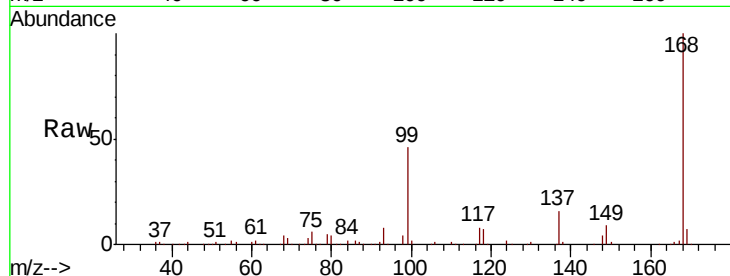
S37-TB-2018-2

Tot Ion:168 Resp: 200901

Ion Ratio Lower Upper

168 100

99 46.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

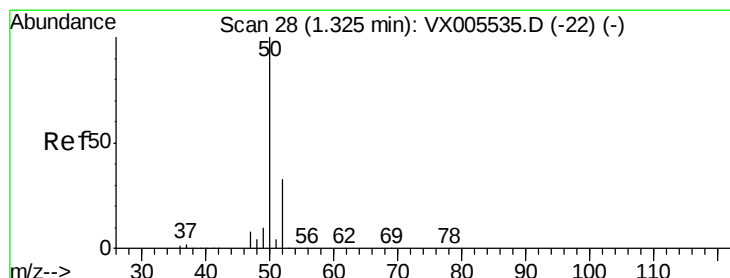
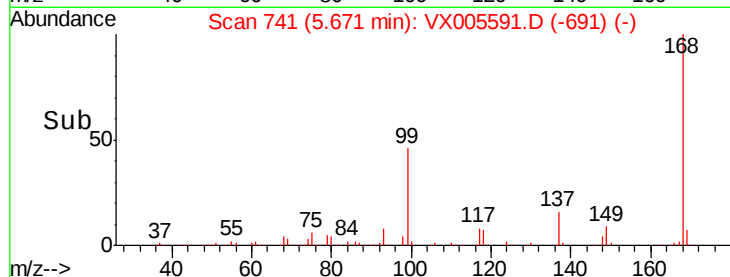
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.245 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005591.D

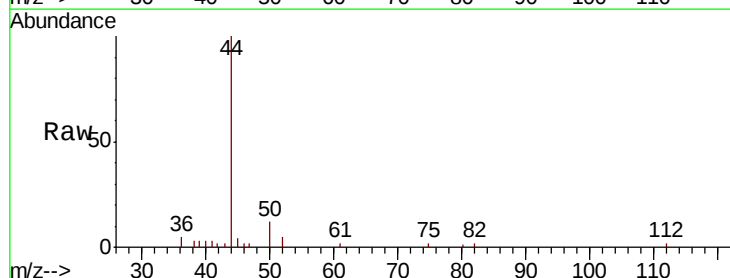
Acq: 25 Oct 2018 16:03

Tgt Ion: 50 Resp: 619

Ion Ratio Lower Upper

50 100

52 32.3 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

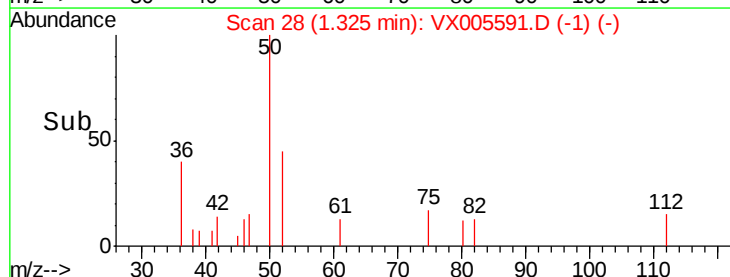
200

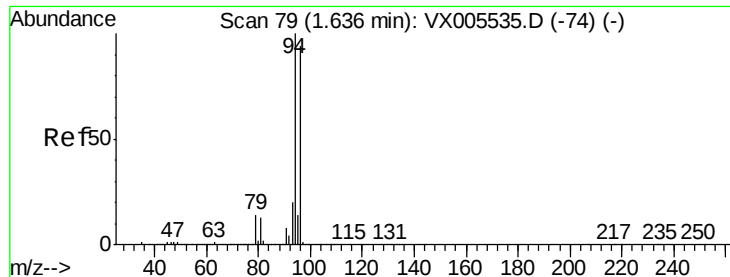
100

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.295 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

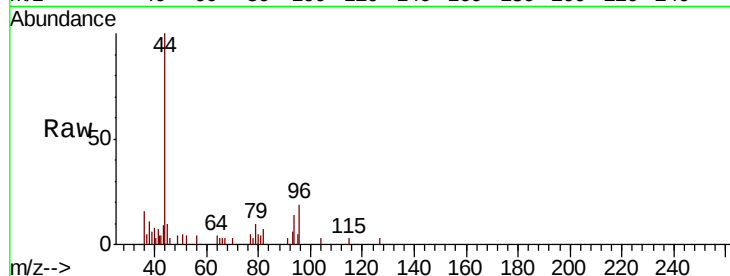
S37-TB-2018-2

Tot Ion: 94 Resp: 456

Ion Ratio Lower Upper

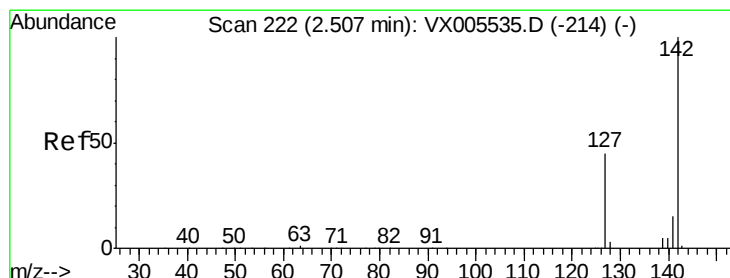
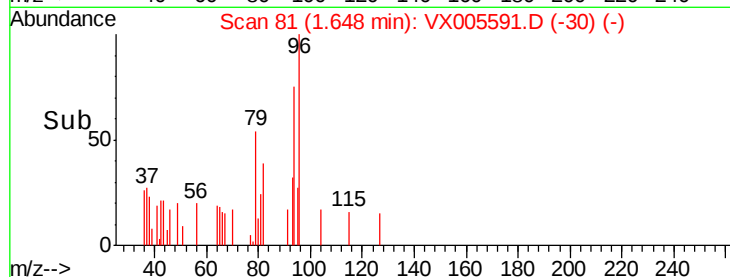
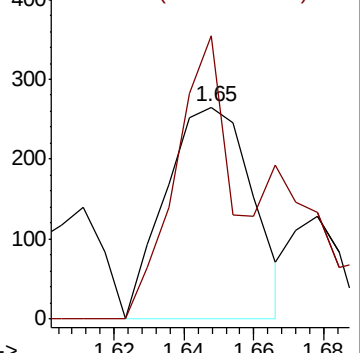
94 100

96 133.6 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 3.062 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

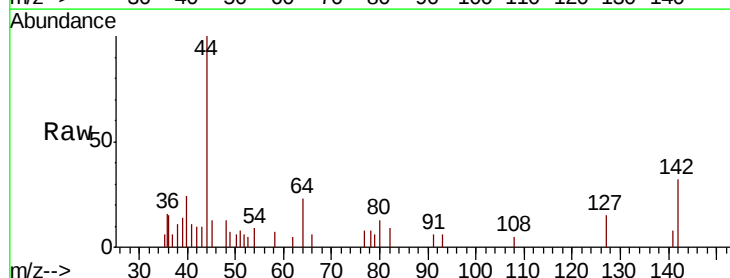
Tgt Ion:142 Resp: 736

Ion Ratio Lower Upper

142 100

127 45.2 36.0 54.0

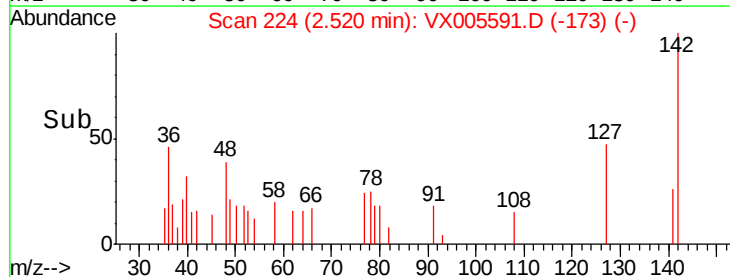
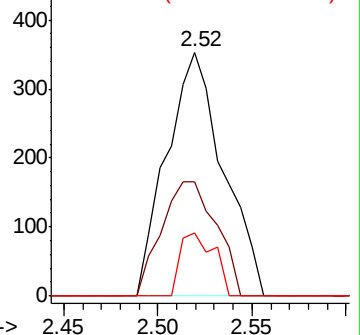
141 15.4 11.7 17.5

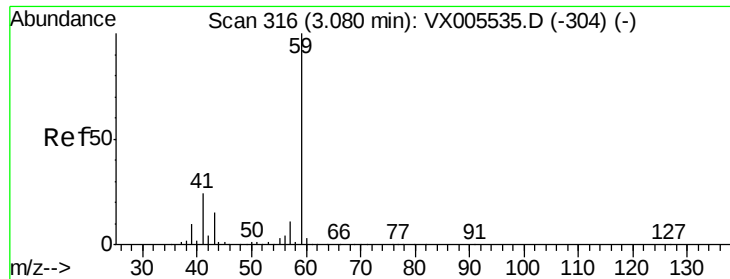


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

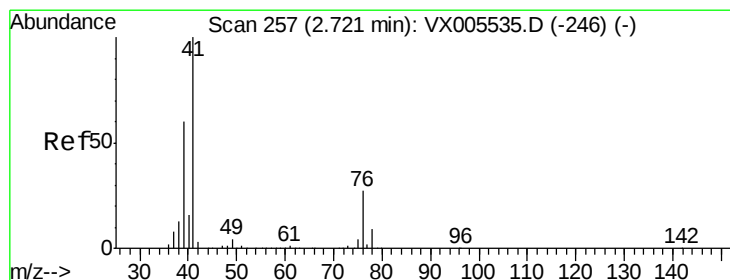
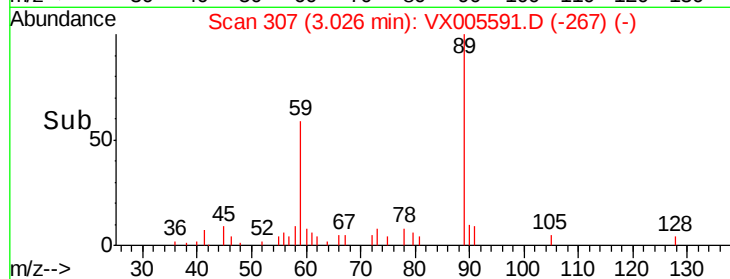
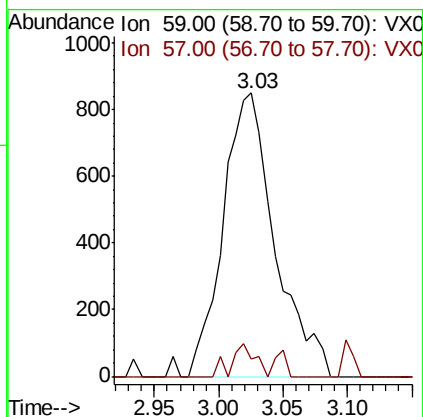
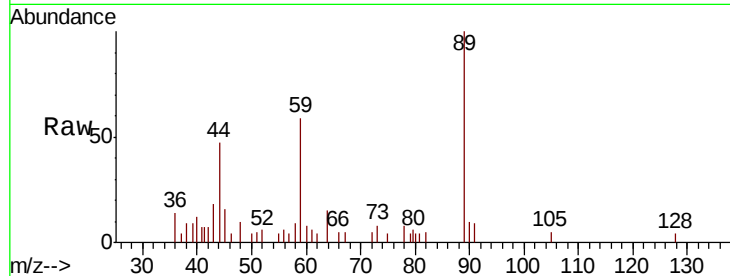




#11
Tert butyl alcohol
Concen: 3.599 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005591.D
Acq: 25 Oct 2018 16:03

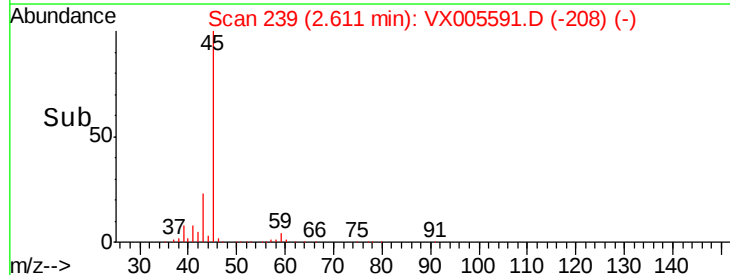
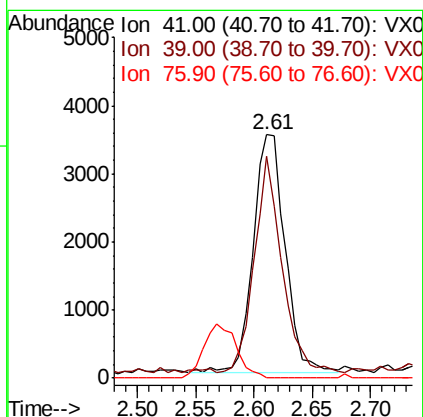
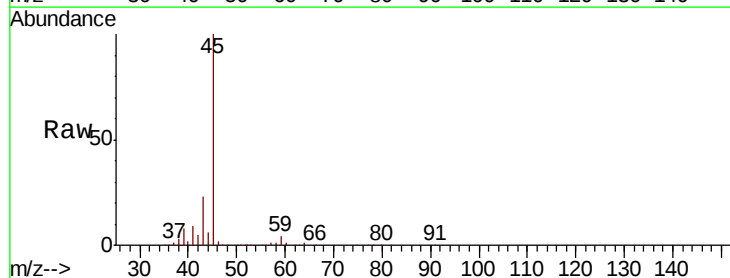
Instrument :
MSVOA_X
ClientSampleId :
S37-TB-2018-2

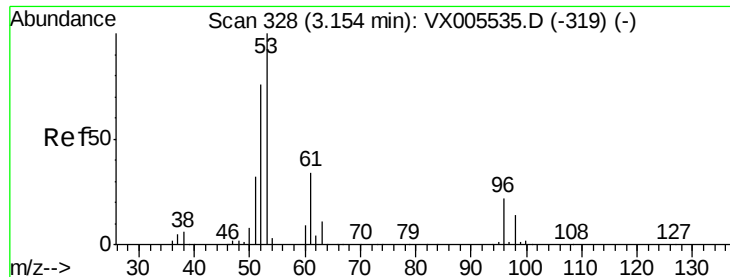
Tot Ion: 59 Resp: 2375
Ion Ratio Lower Upper
59 100
57 5.3 8.5 12.7#



#14
Allyl chloride
Concen: 1.592 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.11 min
Lab File: VX005591.D
Acq: 25 Oct 2018 16:03

Tgt Ion: 41 Resp: 6702
Ion Ratio Lower Upper
41 100
39 77.8 48.2 72.4#
76 0.0 21.9 32.9#

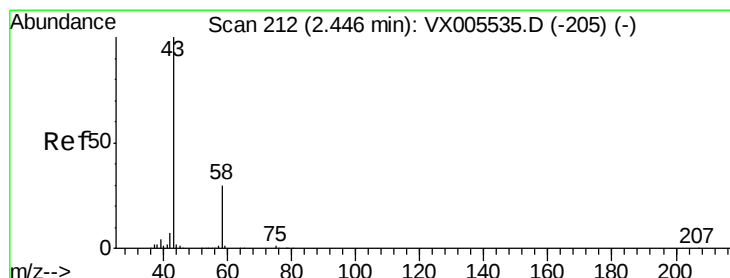
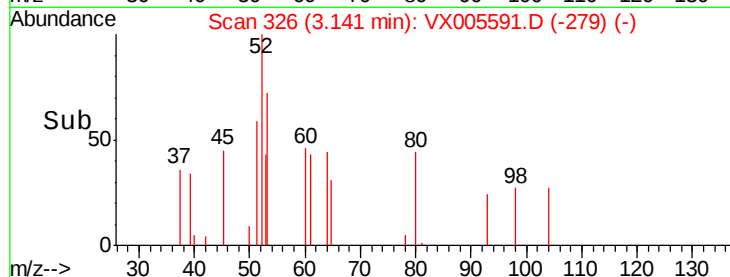
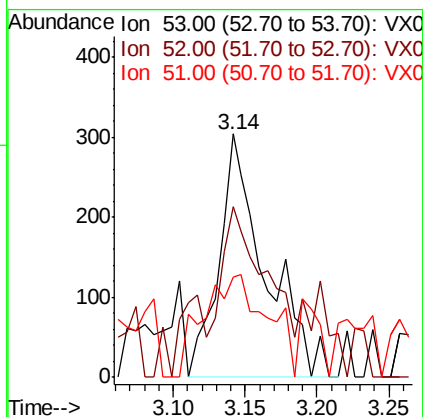
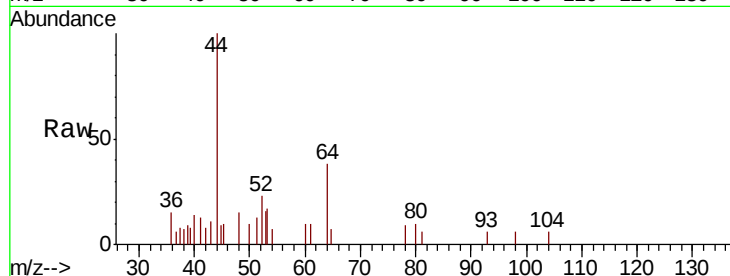




#15
 Acrylonitrile
 Concen: 0.460 ug/l
 RT: 3.14 min Scan# 326
 Delta R.T. -0.01 min
 Lab File: VX005591.D
 Acq: 25 Oct 2018 16:03

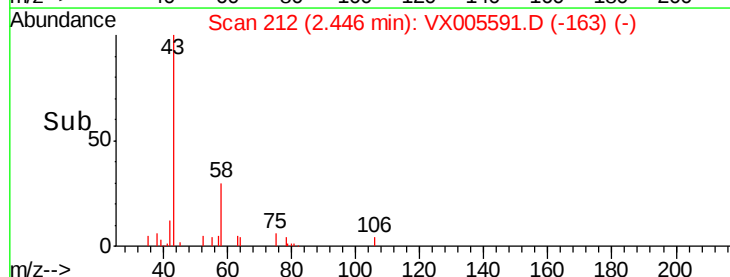
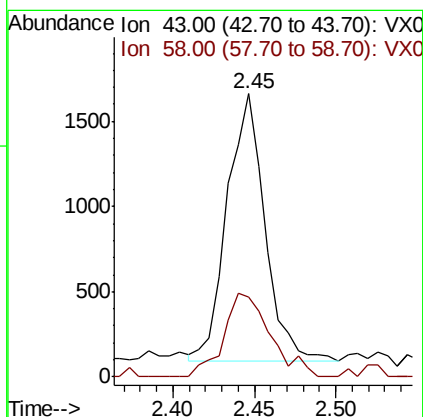
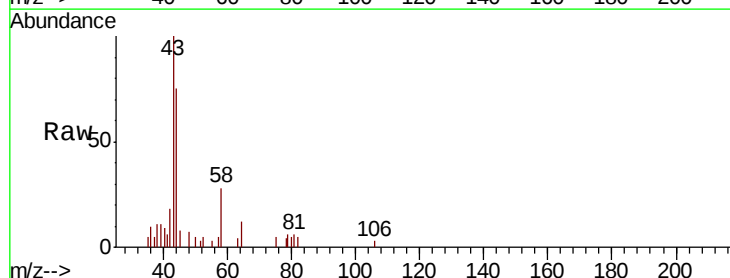
Instrument :
 MSVOA_X
 ClientSampled :
 S37-TB-2018-2

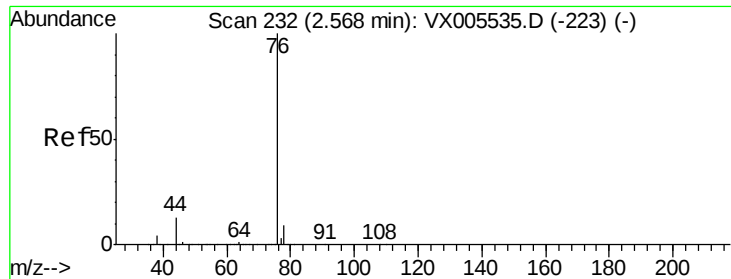
Tot Ion: 53 Resp: 680
 Ion Ratio Lower Upper
 53 100
 52 45.7 66.6 99.8#
 51 58.4 28.4 42.6#



#16
 Acetone
 Concen: 1.969 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX005591.D
 Acq: 25 Oct 2018 16:03

Tgt Ion: 43 Resp: 2552
 Ion Ratio Lower Upper
 43 100
 58 29.9 23.8 35.6





#17

Carbon Disulfide

Concen: 0.265 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

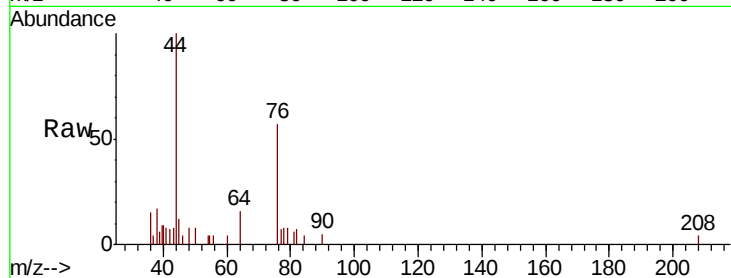
S37-TB-2018-2

Tot Ion: 76 Resp: 1526

Ion Ratio Lower Upper

76 100

78 6.7 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

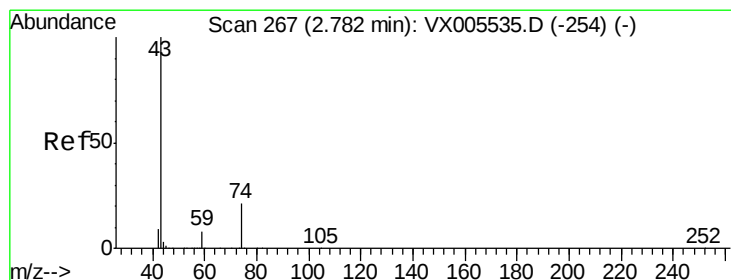
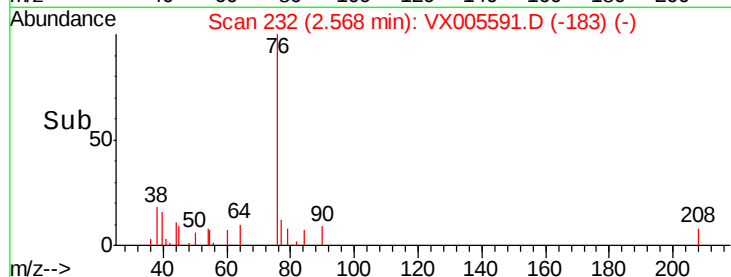
600

400

200

0

Time--> 2.50 2.55 2.60



#18

Methyl Acetate

Concen: 4.205 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.16 min

Lab File: VX005591.D

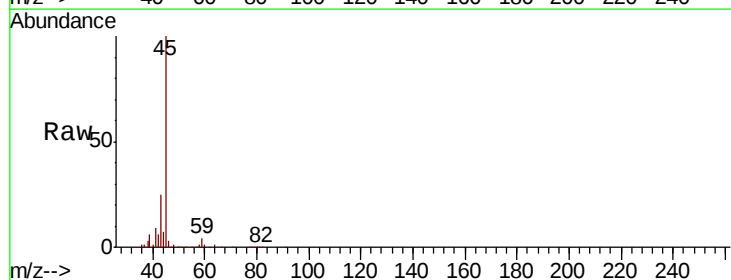
Acq: 25 Oct 2018 16:03

Tgt Ion: 43 Resp: 17748

Ion Ratio Lower Upper

43 100

74 0.0 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.62

10000

8000

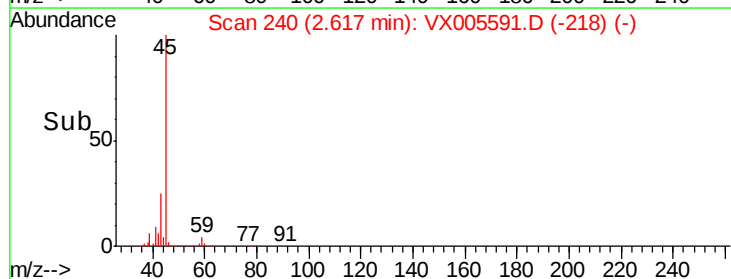
6000

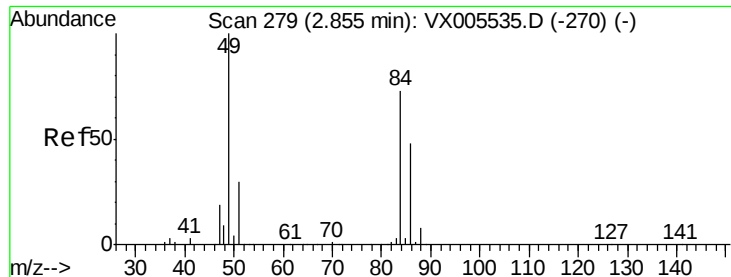
4000

2000

0

Time--> 2.50 2.55 2.60 2.65 2.70

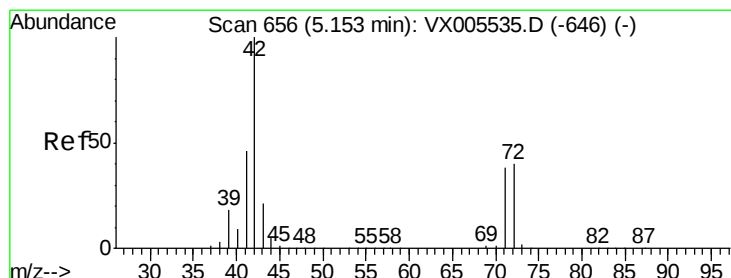
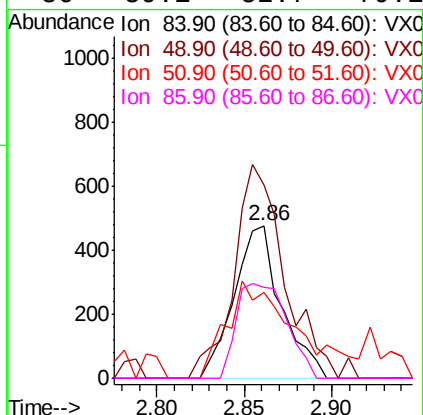
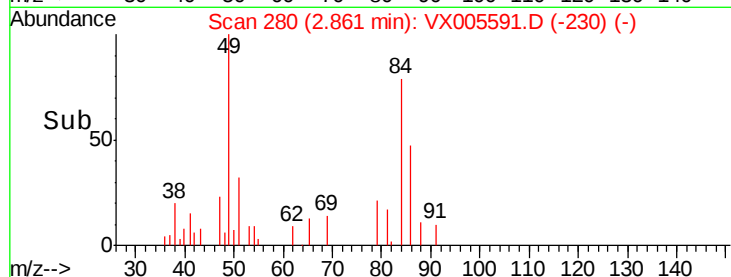
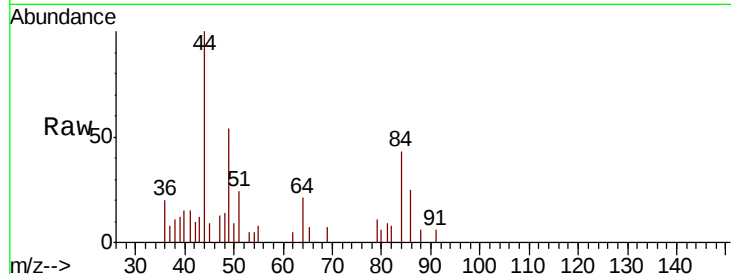




#20
Methvlene Chloride
Concen: 0.411 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005591.D
Acq: 25 Oct 2018 16:03

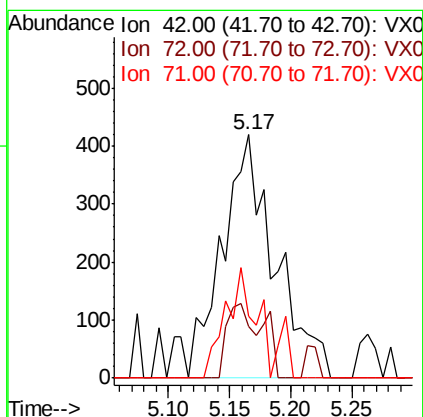
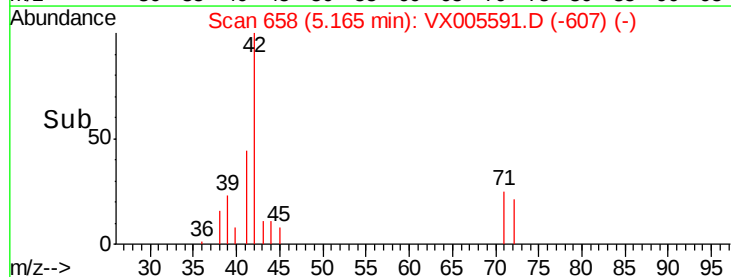
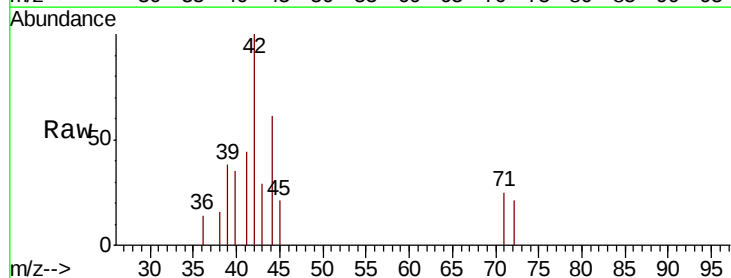
Instrument :
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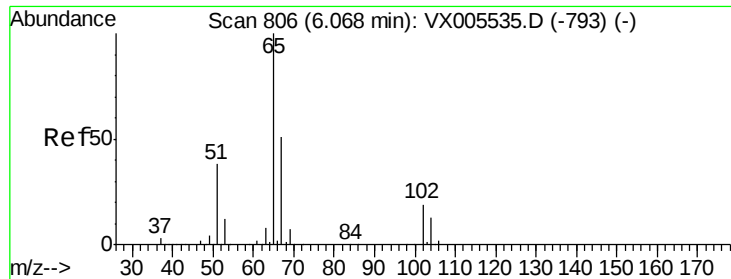
Tot Ion:	84	Resp:	893
Ion	Ratio	Lower	Upper
84	100		
49	126.0	109.5	164.3
51	41.7	33.3	49.9
86	59.1	52.7	79.1



#29
Tetrahydrofuran
Concen: 0.975 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX005591.D
Acq: 25 Oct 2018 16:03

Tgt Ion:	42	Resp:	1252
Ion	Ratio	Lower	Upper
42	100		
72	14.6	32.0	48.0#
71	25.9	29.8	44.8#

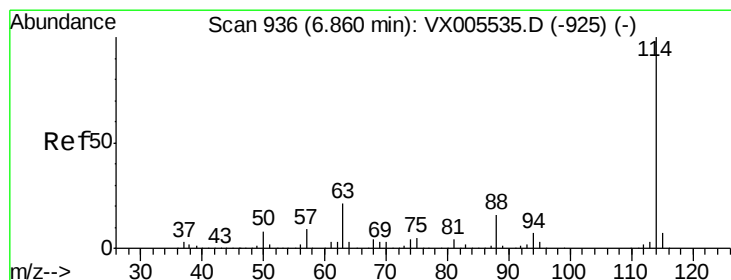
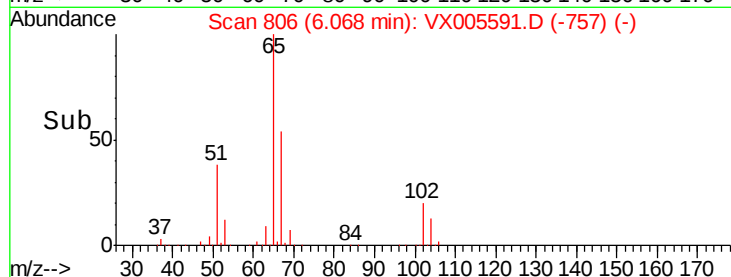
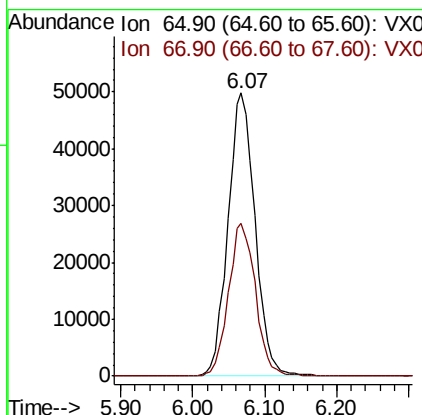
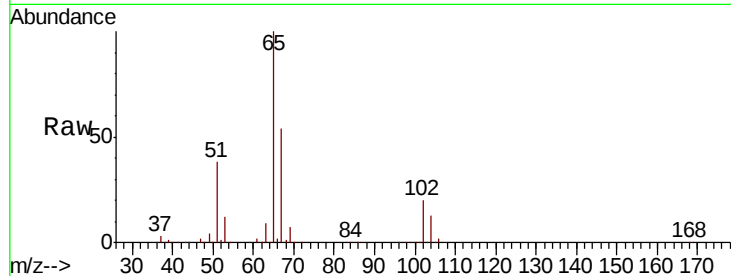




#33
 1,2-Dichloroethane-d4
 Concen: 52.993 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005591.D
 Acq: 25 Oct 2018 16:03

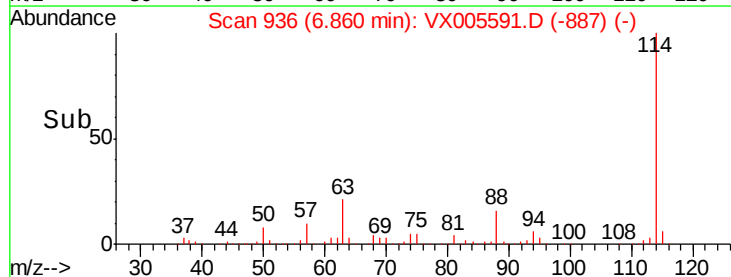
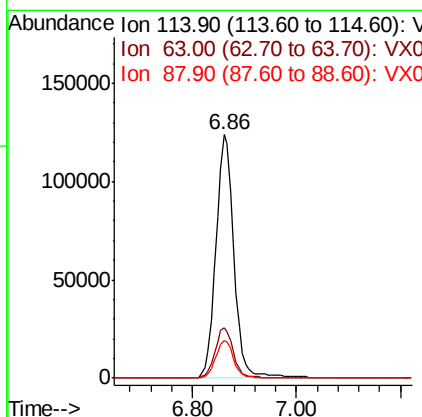
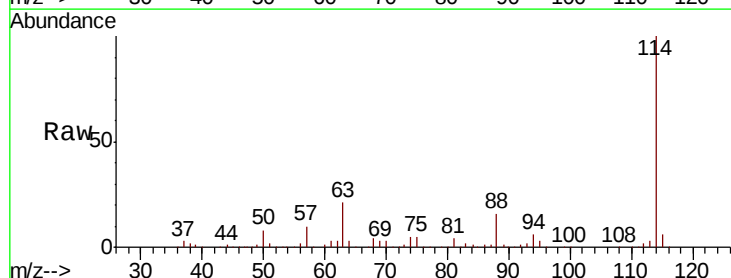
Instrument :
 MSVOA_X
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 S37-TB-2018-2

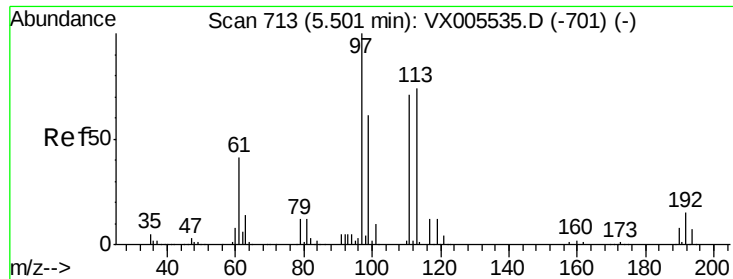
Tot Ion: 65 Resp: 129960
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005591.D
 Acq: 25 Oct 2018 16:03

Tgt Ion: 114 Resp: 299802
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.8
 88 15.5 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.581 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

S37-TB-2018-2

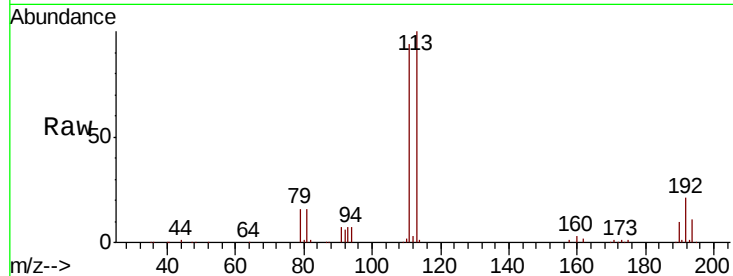
Tot Ion:113 Resp: 104710

Ion Ratio Lower Upper

113 100

111 98.7 82.3 123.5

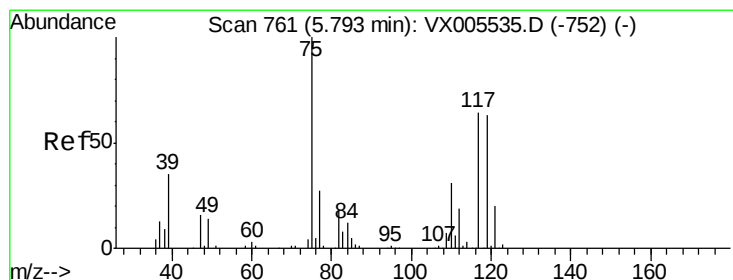
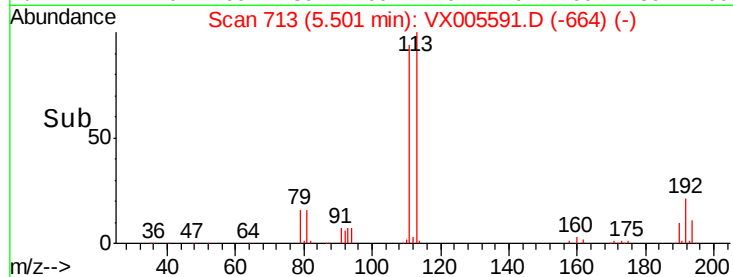
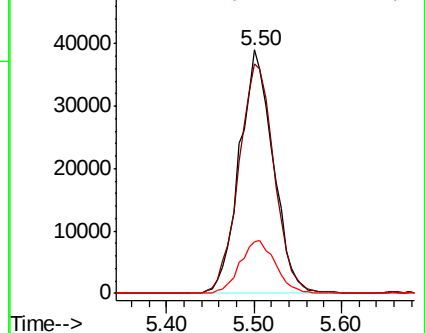
192 22.7 17.9 26.9



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: 4.867 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

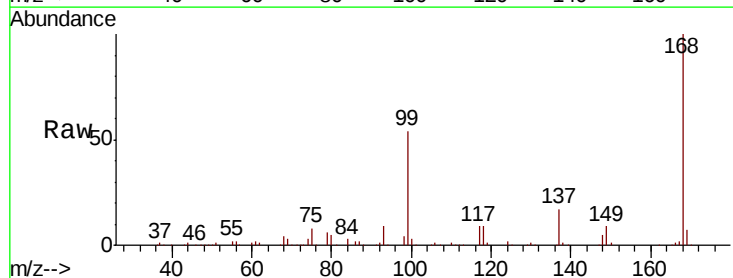
Tgt Ion: 75 Resp: 14161

Ion Ratio Lower Upper

75 100

110 9.8 17.4 52.2#

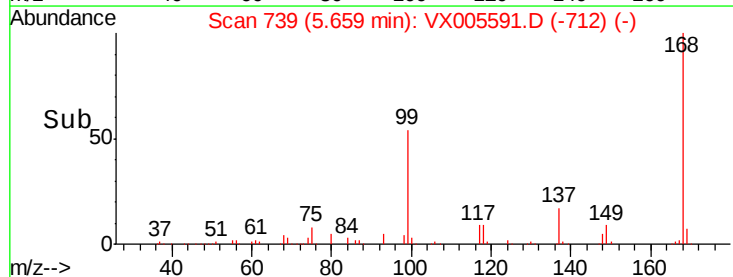
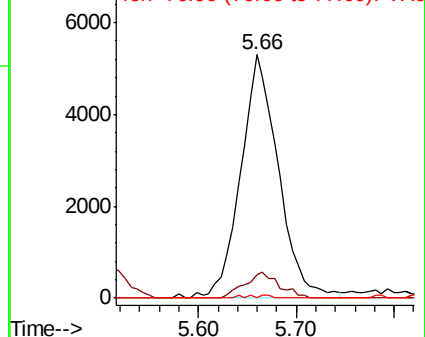
77 0.4 25.8 38.6#

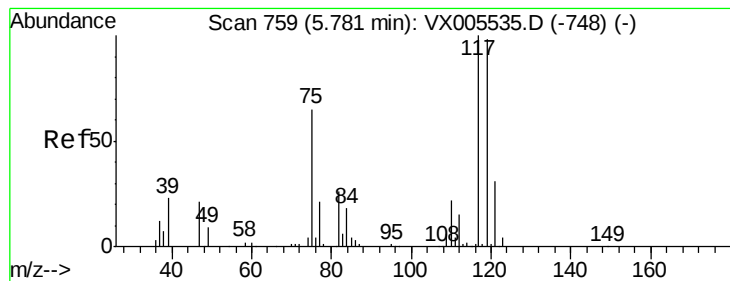


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.090 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

S37-TB-2018-2

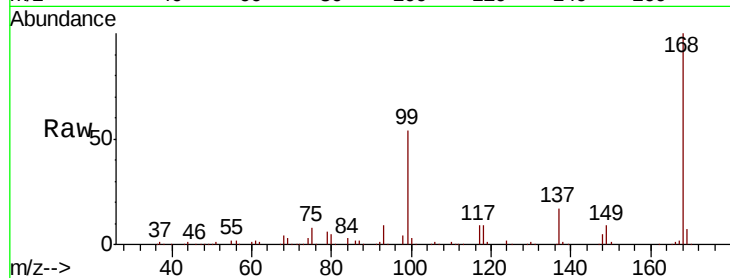
Tot Ion:117 Resp: 18661

Ion Ratio Lower Upper

117 100

119 7.9 78.1 117.1#

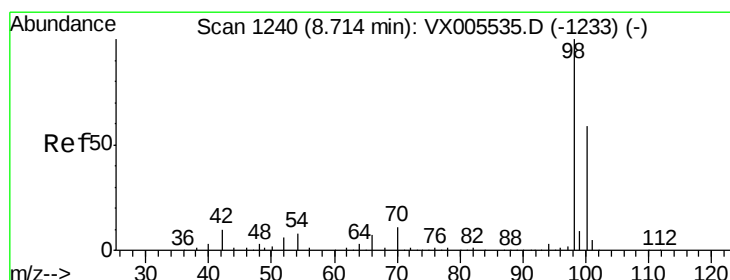
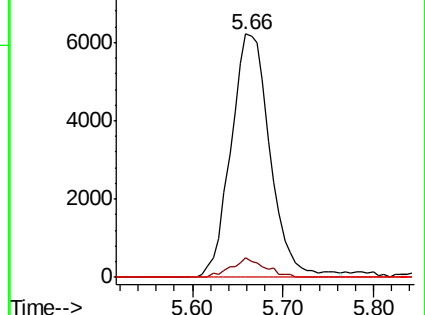
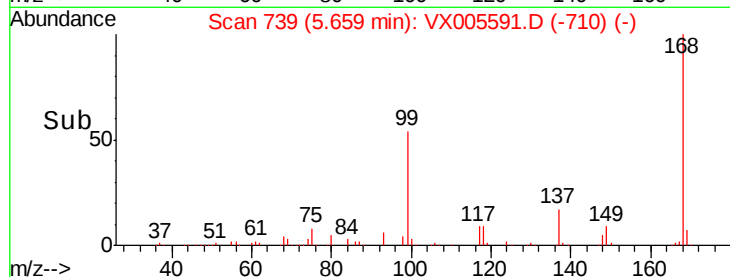
121 0.0 24.6 36.8#



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: 49.803 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005591.D

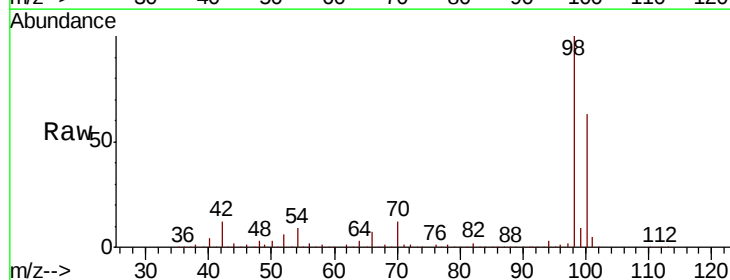
Acq: 25 Oct 2018 16:03

Tgt Ion: 98 Resp: 363273

Ion Ratio Lower Upper

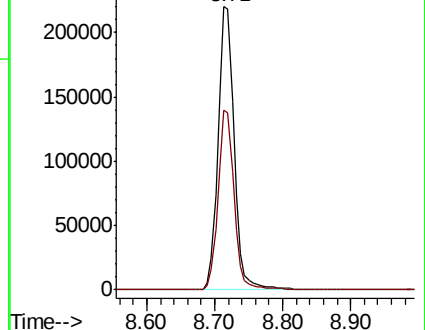
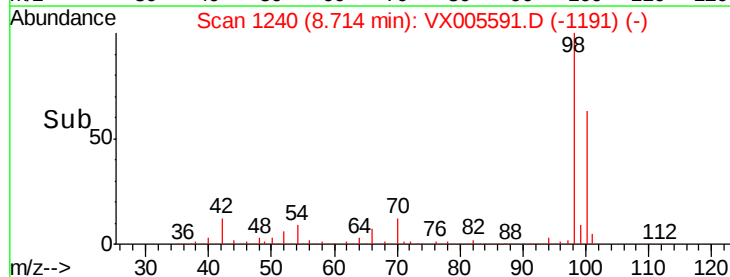
98 100

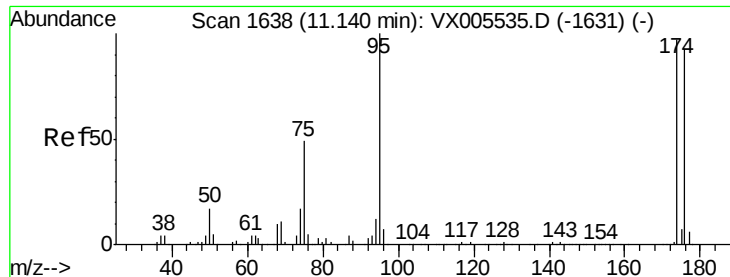
100 63.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

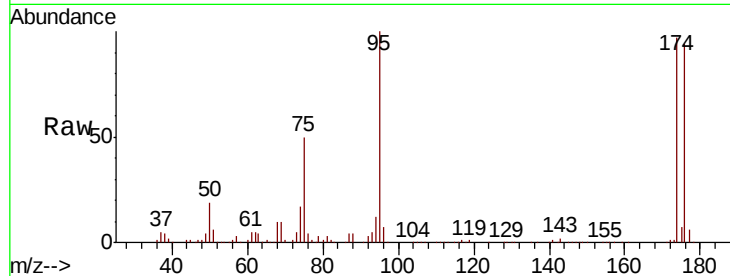




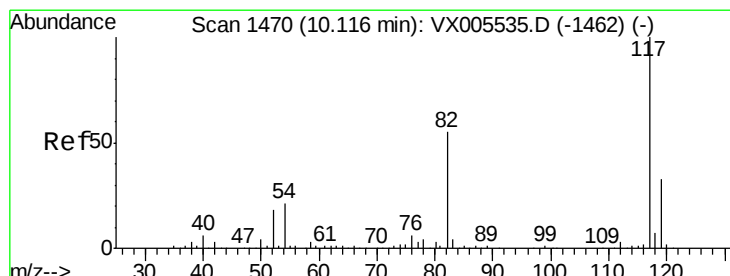
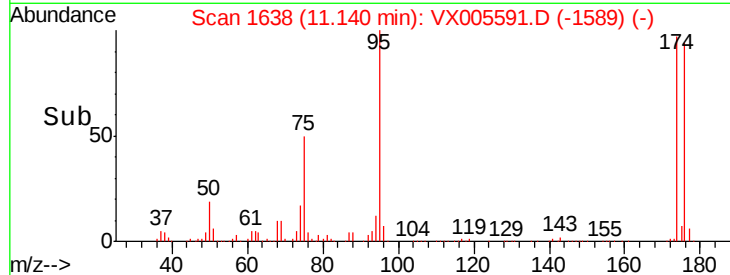
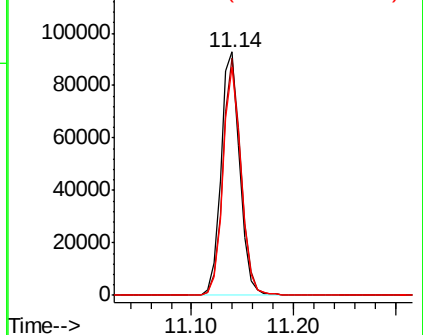
#62
4-Bromofluorobenzene
Concen: 43.438 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005591.D
Acq: 25 Oct 2018 16:03

Instrument :
MSVOA_X
ClientSampleId :
S37-TB-2018-2

Tot Ion: 95 Resp: 119655
Ion Ratio Lower Upper
95 100
174 93.9 0.0 184.4
176 90.2 0.0 177.4

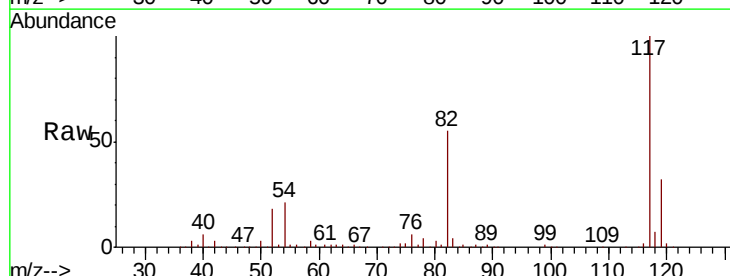


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

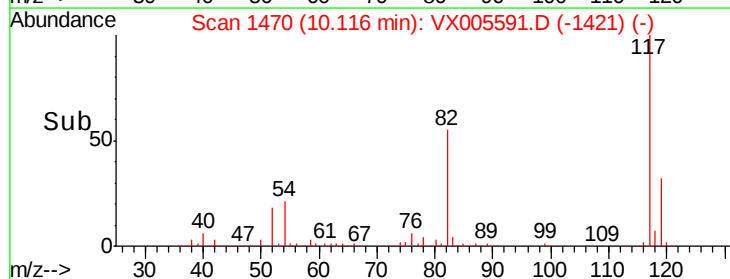
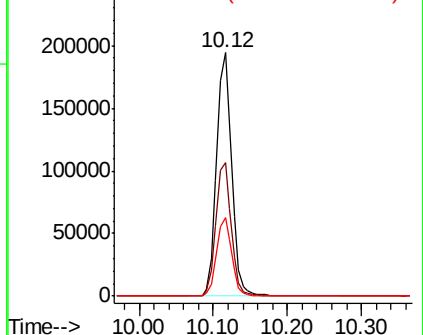


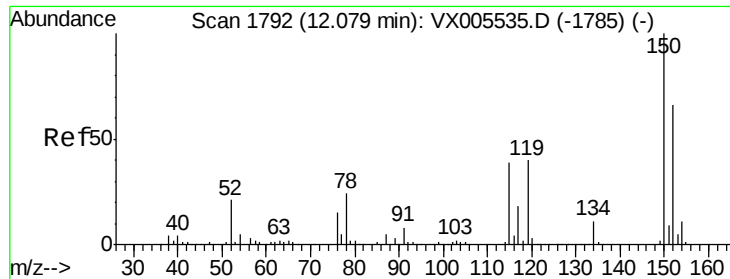
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005591.D
Acq: 25 Oct 2018 16:03

Tgt Ion: 117 Resp: 272124
Ion Ratio Lower Upper
117 100
82 55.0 44.1 66.1
119 32.2 26.2 39.2



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

S37-TB-2018-2

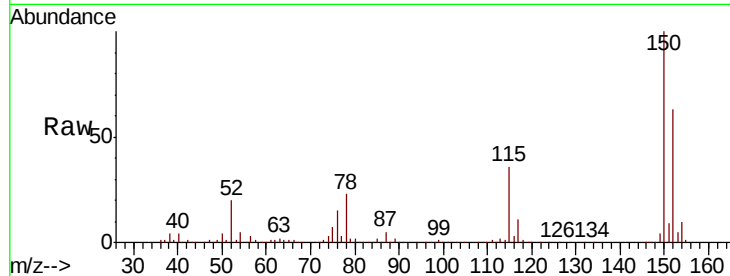
Tot Ion:152 Resp: 129919

Ion Ratio Lower Upper

152 100

115 55.7 39.4 118.1

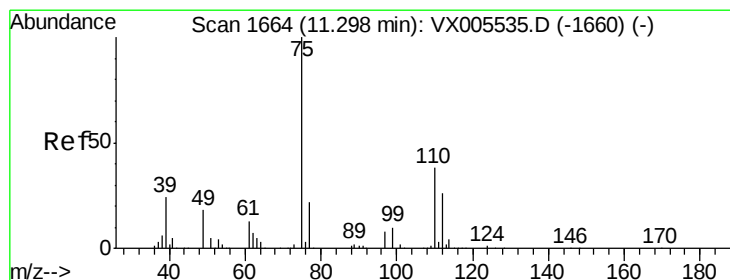
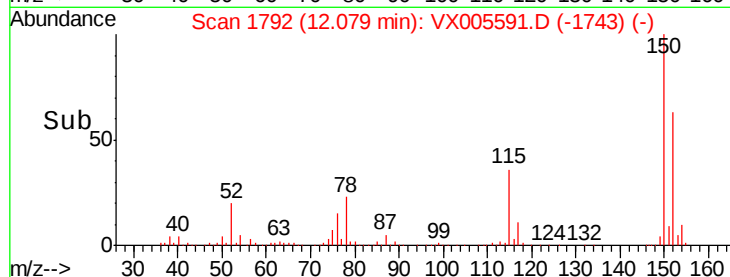
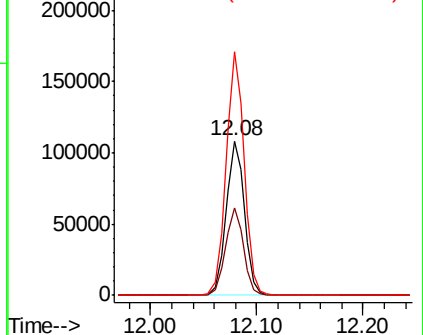
150 156.1 0.0 346.4



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: 22.257 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005591.D

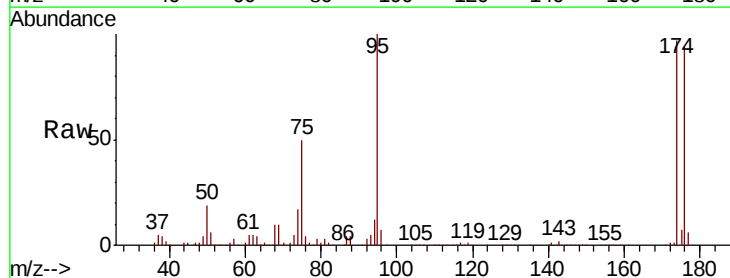
Acq: 25 Oct 2018 16:03

Tgt Ion: 75 Resp: 61266

Ion Ratio Lower Upper

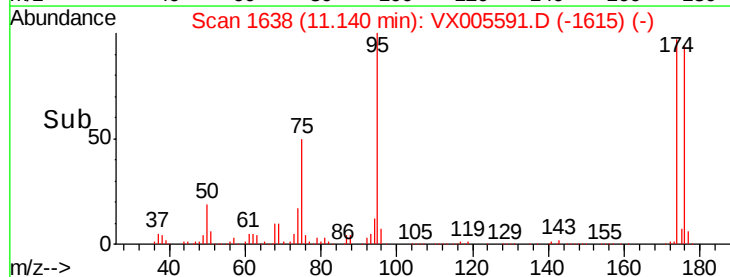
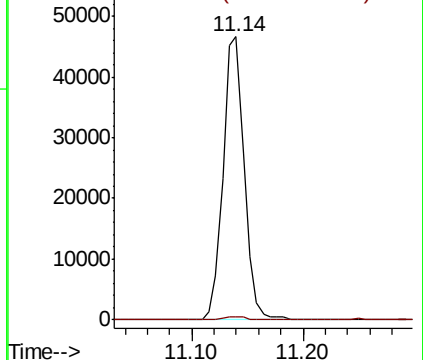
75 100

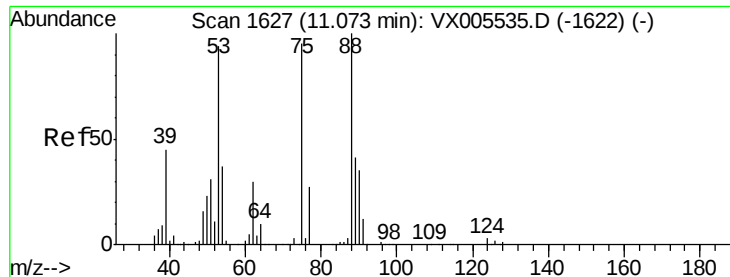
77 1.5 20.5 61.6#



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: 72.725 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005591.D

Acq: 25 Oct 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

S37-TB-2018-2

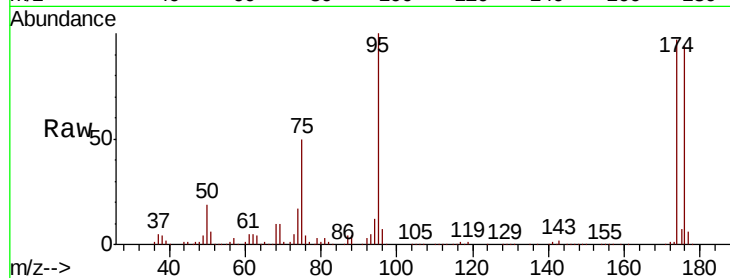
Tot Ion: 75 Resp: 61266

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.2#

89 0.1 39.8 59.8#



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

