

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005568.D
 Acq On : 25 Oct 2018 04:04
 Operator : JC/MD
 Sample : J5199-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OK-03-102318

Quant Time: Oct 25 05:58:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	206184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	321702	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	286241	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132934	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	134868	53.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.18%	
35) Dibromofluoromethane	5.51	113	102946	47.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.52%	
50) Toluene-d8	8.71	98	380751	48.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	11.14	95	124092	41.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	83.96%	

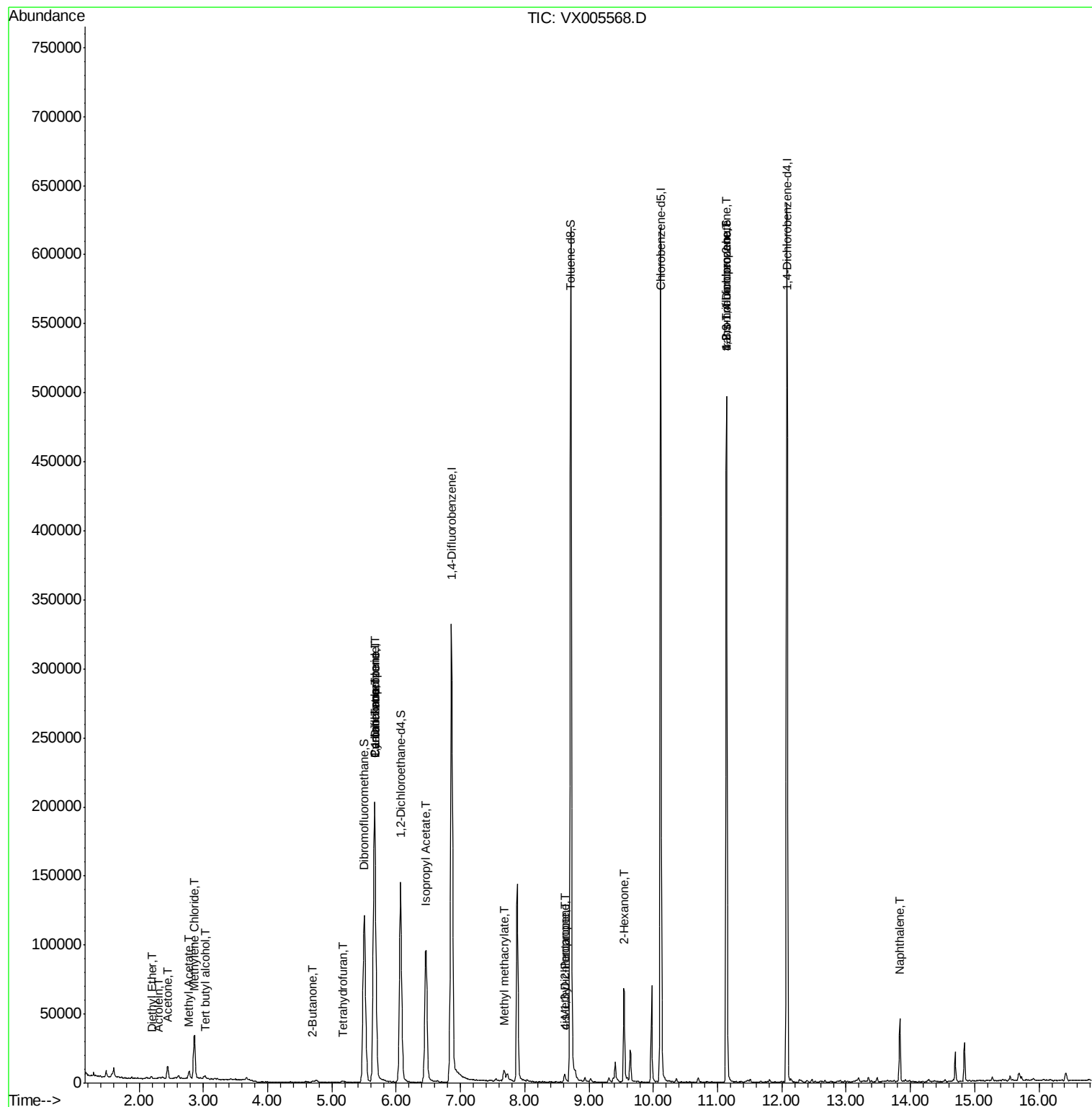
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	402	0.284	ug/l	62
11) Tert butyl alcohol	3.02	59	1848	2.729	ug/l #	72
13) Acrolein	2.29	56	199	0.576	ug/l #	29
16) Acetone	2.45	43	9786	7.358	ug/l	96
18) Methyl Acetate	2.78	43	7165	0.741	ug/l	99
20) Methylene Chloride	2.85	84	14606	6.557	ug/l	99
25) 2-Butanone	4.70	43	2209	1.091	ug/l #	88
29) Tetrahydrofuran	5.17	42	903	0.685	ug/l #	31
31) Cyclohexane	5.66	56	3930	1.158	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14288	4.577	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18778	5.711	ug/l #	17
43) Isopropyl Acetate	6.46	43	132830	22.250	ug/l	96
48) Methyl methacrylate	7.68	41	5258	1.808	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2641	0.658	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	882	0.251	ug/l #	73
59) 2-Hexanone	9.54	43	8078	2.554	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	62836	23.207	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62836	72.897	ug/l #	10
95) Naphthalene	13.83	128	27847	3.067	ug/l	98

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

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QLast Update : Wed Oct 24 13:13:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

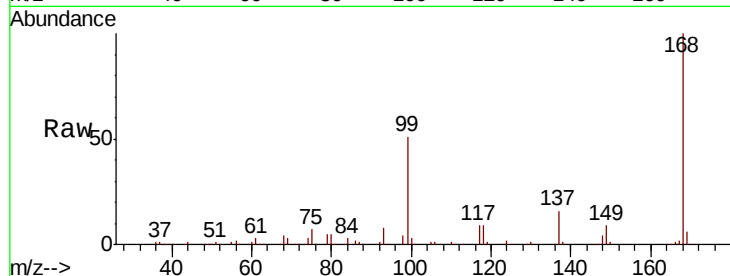
OK-03-102318

Tot Ion:168 Resp: 206184

Ion Ratio Lower Upper

168 100

99 51.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

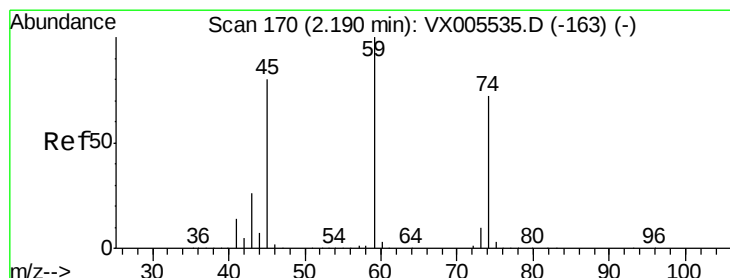
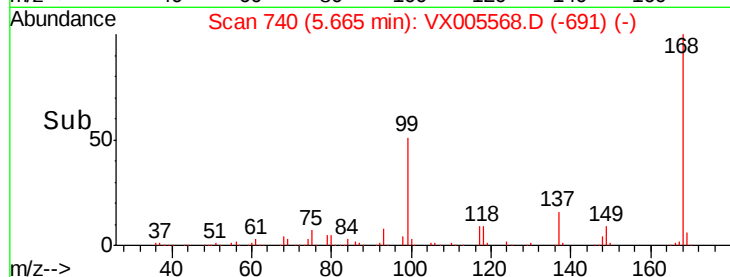
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.284 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005568.D

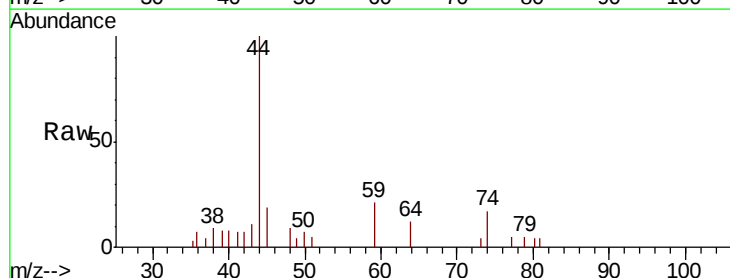
Acq: 25 Oct 2018 04:04

Tgt Ion: 74 Resp: 402

Ion Ratio Lower Upper

74 100

45 133.3 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

400

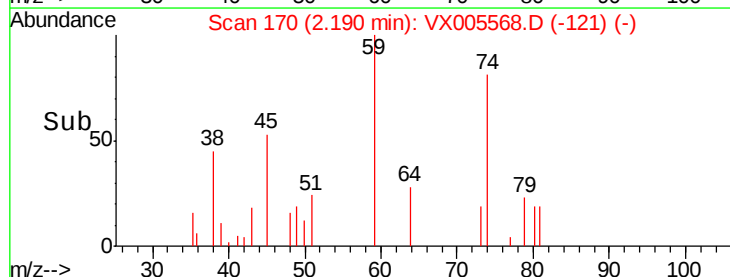
300

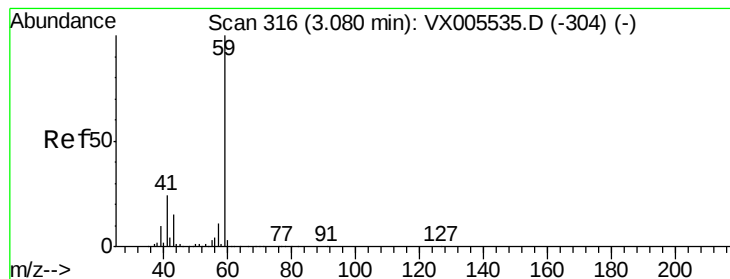
200

100

0

Time--> 2.15 2.20





#11

Tert butyl alcohol

Concen: 2.729 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

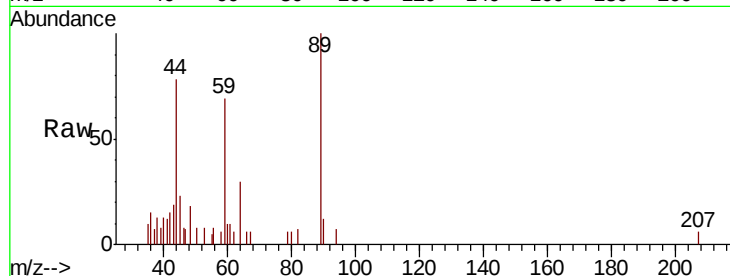
OK-03-102318

Tot Ion: 59 Resp: 1848

Ion Ratio Lower Upper

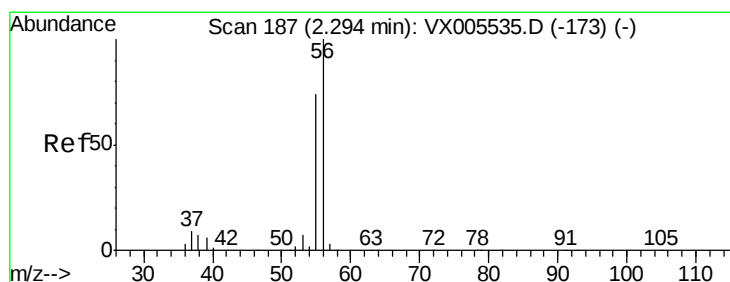
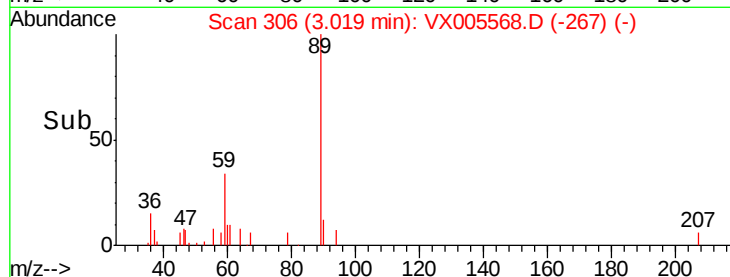
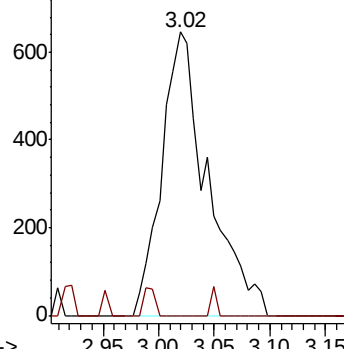
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.576 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX005568.D

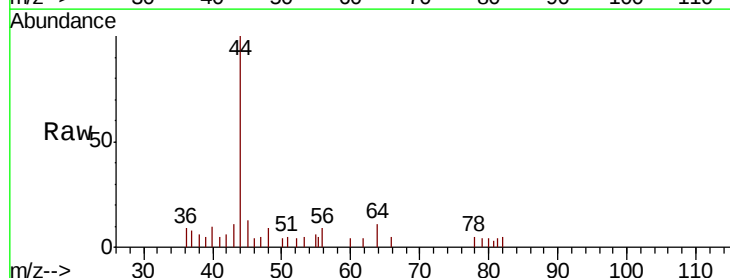
Acq: 25 Oct 2018 04:04

Tgt Ion: 56 Resp: 199

Ion Ratio Lower Upper

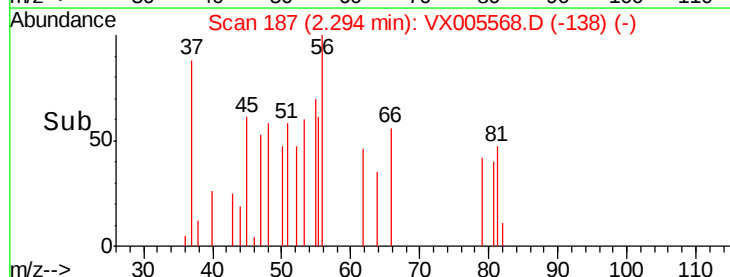
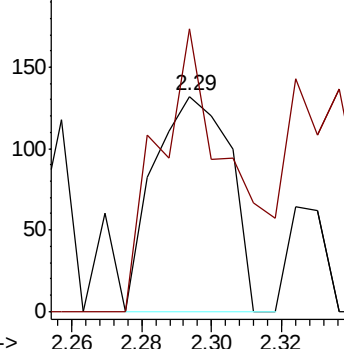
56 100

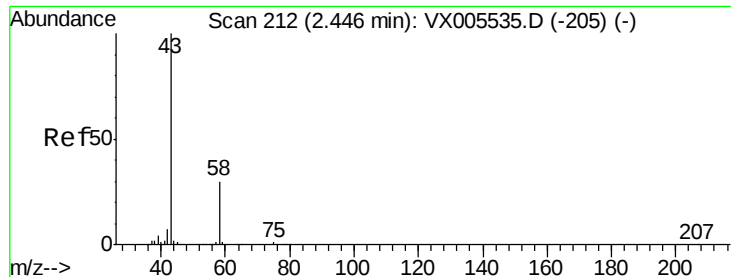
55 126.1 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 7.358 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

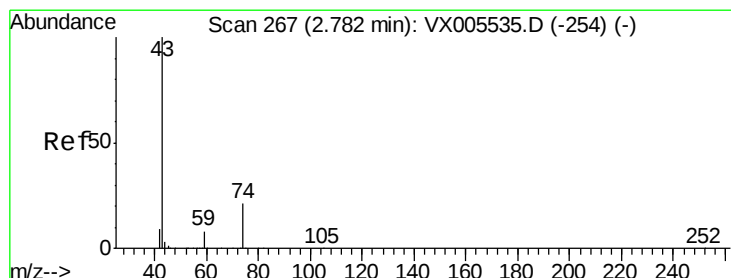
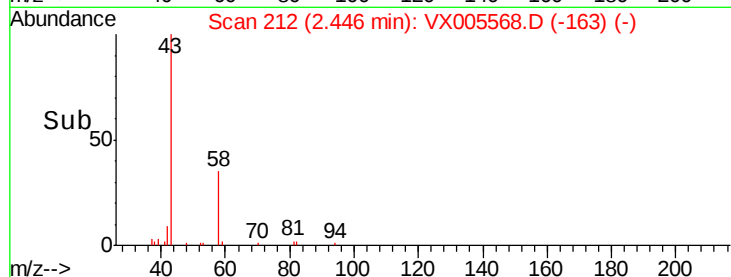
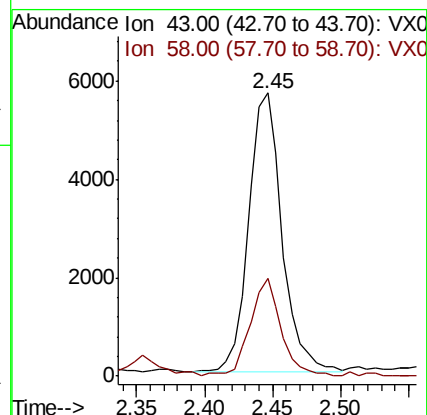
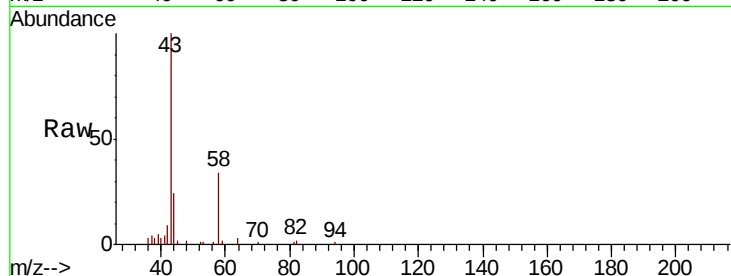
OK-03-102318

Tot Ion: 43 Resp: 9786

Ion Ratio Lower Upper

43 100

58 34.8 26.2 39.4



#18

Methyl Acetate

Concen: 0.741 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005568.D

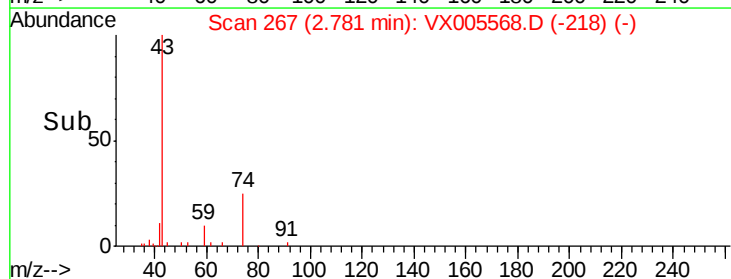
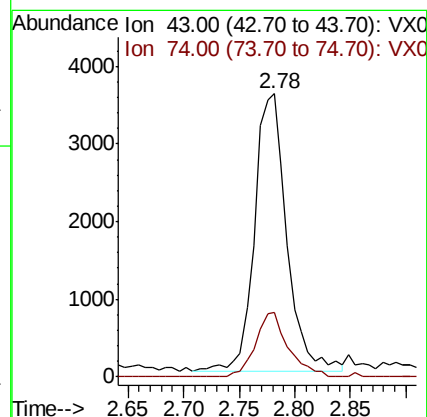
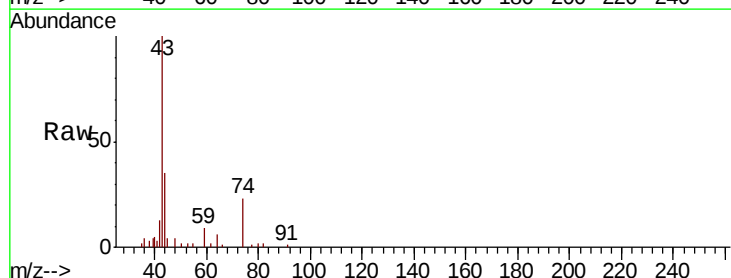
Acq: 25 Oct 2018 04:04

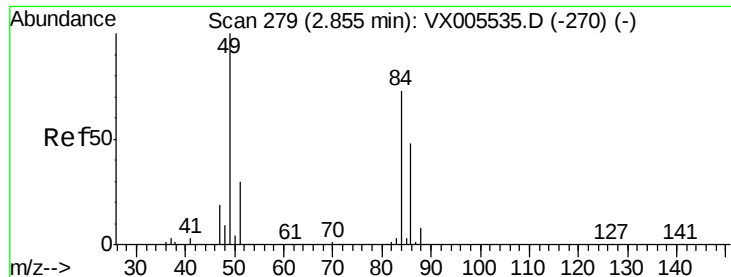
Tgt Ion: 43 Resp: 7165

Ion Ratio Lower Upper

43 100

74 23.7 19.4 29.2





#20

Methvlene Chloride

Concen: 6.557 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

OK-03-102318

Tot Ion: 84 Resp: 14606

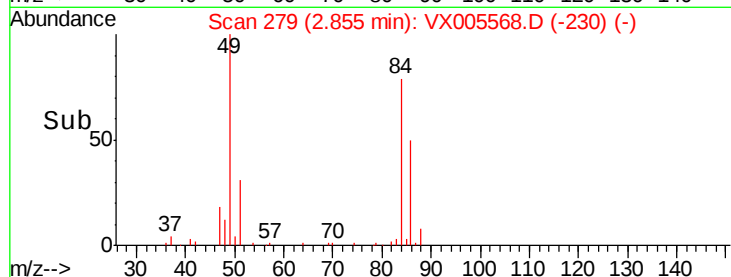
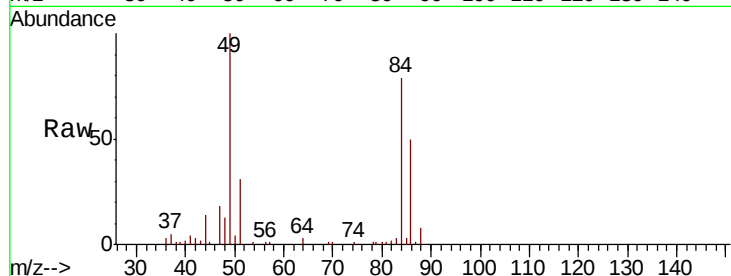
Ion Ratio Lower Upper

84 100

49 127.3 101.2 151.8

51 39.1 29.5 44.3

86 64.1 52.3 78.5

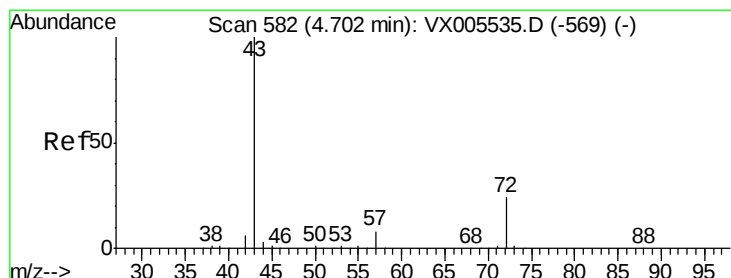
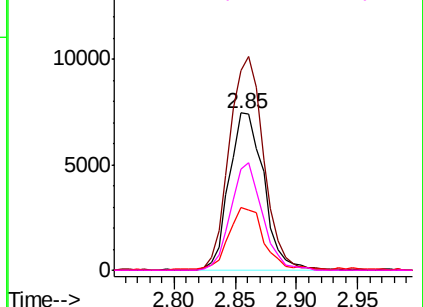


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 1.091 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005568.D

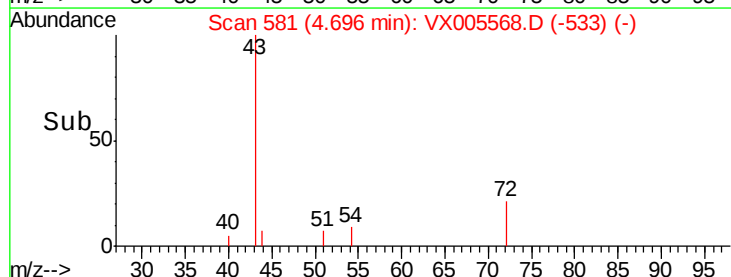
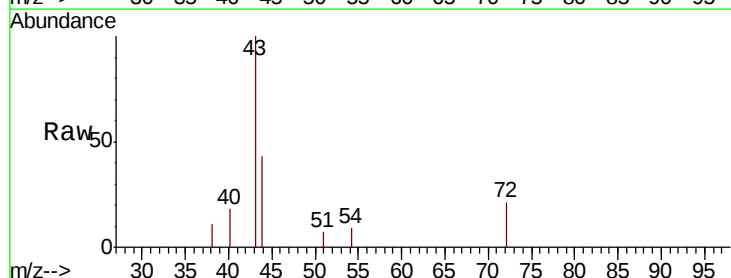
Acq: 25 Oct 2018 04:04

Tgt Ion: 43 Resp: 2209

Ion Ratio Lower Upper

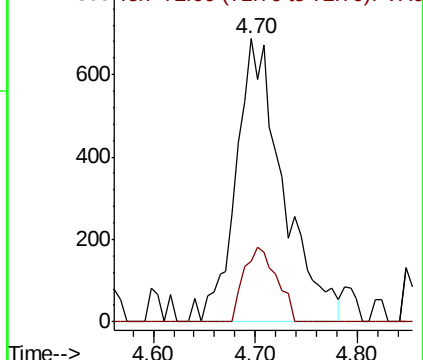
43 100

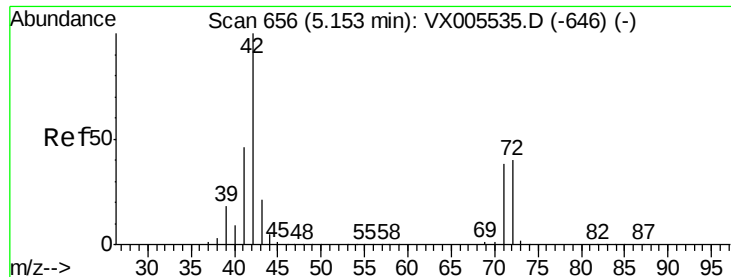
72 21.4 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.685 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

OK-03-102318

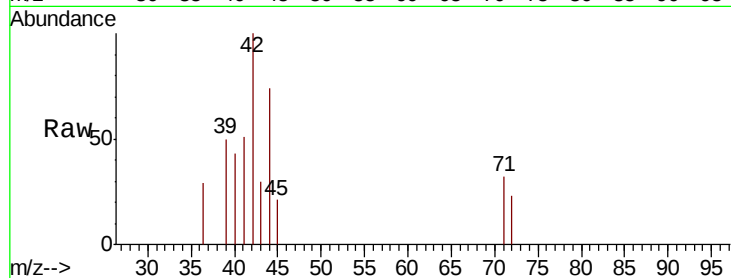
Tot Ion: 42 Resp: 903

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

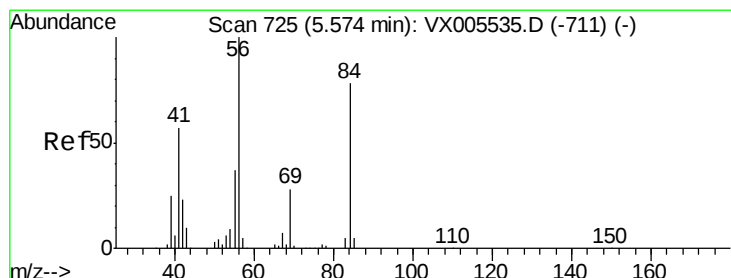
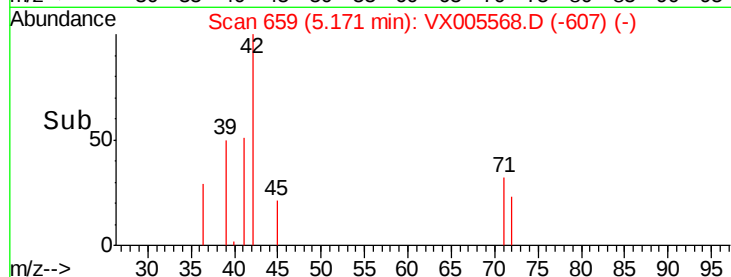
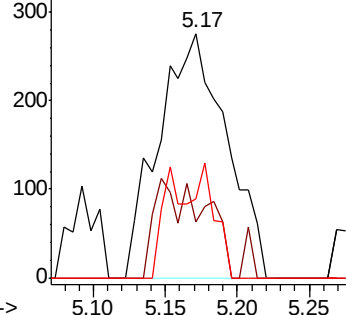
71 0.0 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.158 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

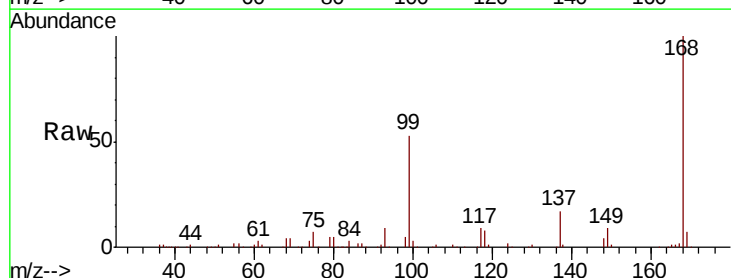
Tgt Ion: 56 Resp: 3930

Ion Ratio Lower Upper

56 100

69 182.2 25.4 38.2#

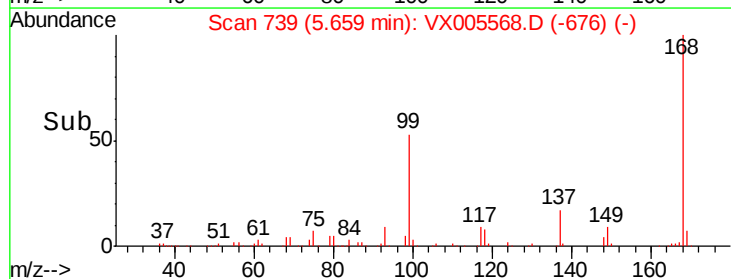
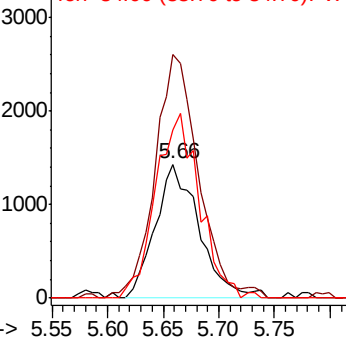
84 126.3 71.4 107.2#

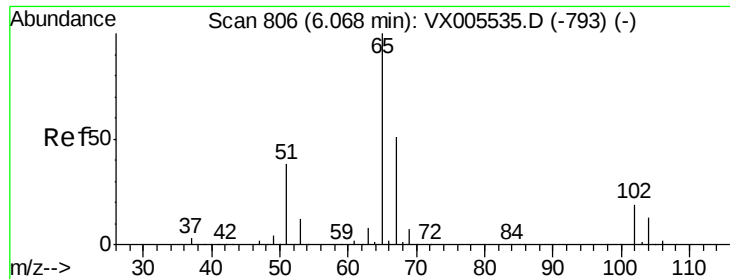


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

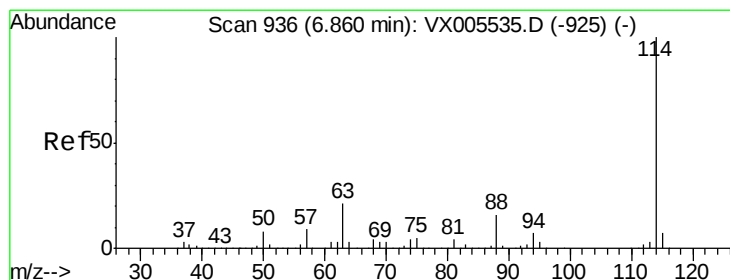
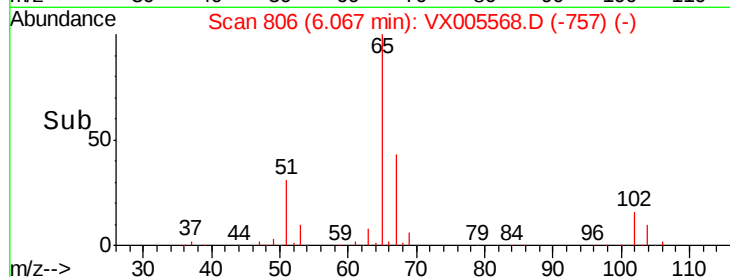
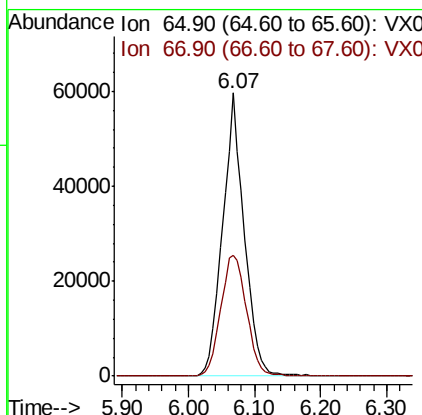
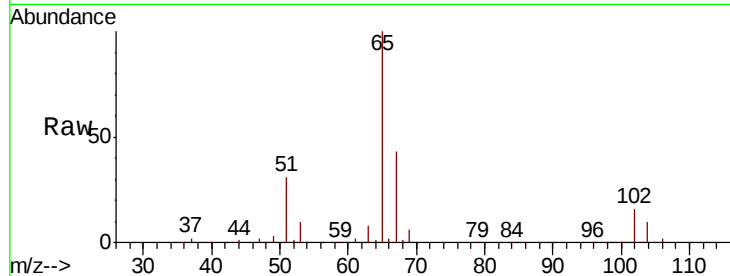




#33
 1,2-Dichloroethane-d4
 Concen: 53.586 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005568.D
 Acq: 25 Oct 2018 04:04

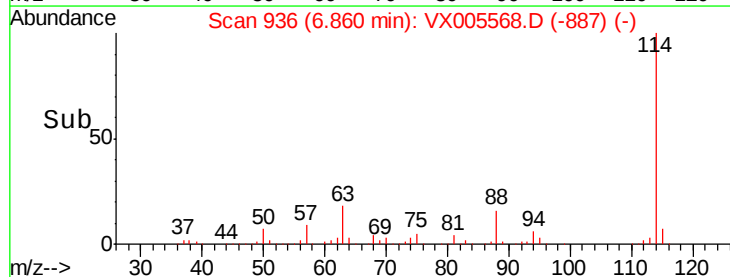
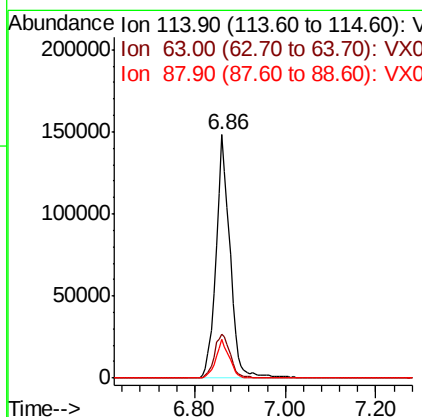
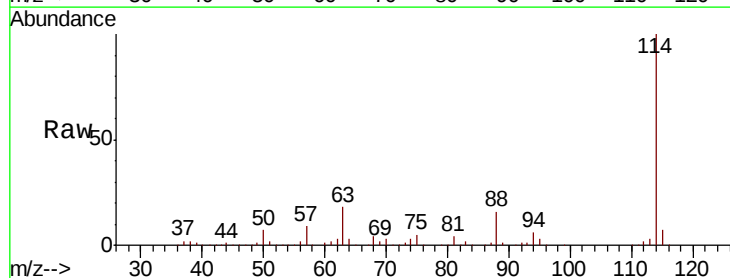
Instrument :
 MSVOA_X
 ClientSampleId :
 OK-03-102318

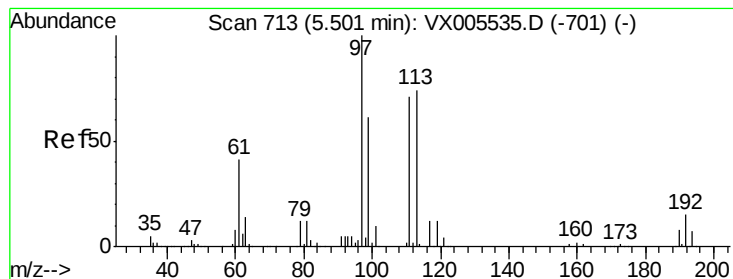
Tot Ion: 65 Resp: 134868
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005568.D
 Acq: 25 Oct 2018 04:04

Tgt Ion: 114 Resp: 321702
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 39.0
 88 16.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 47.260 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

OK-03-102318

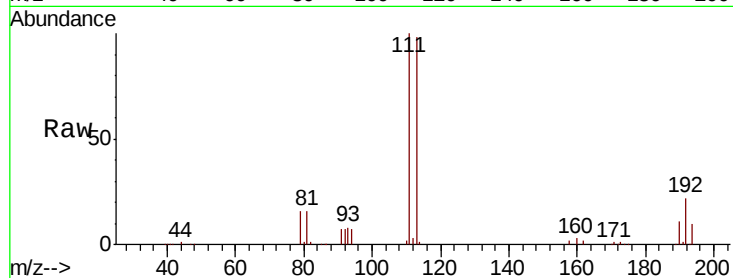
Tot Ion:113 Resp: 102946

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

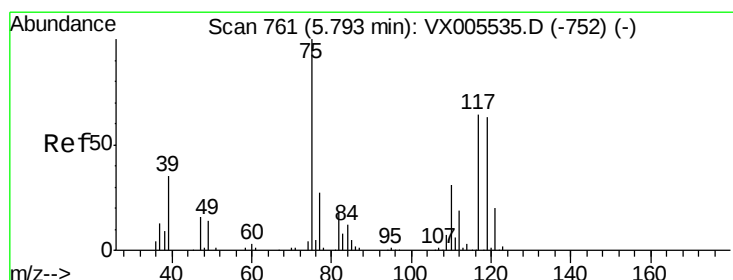
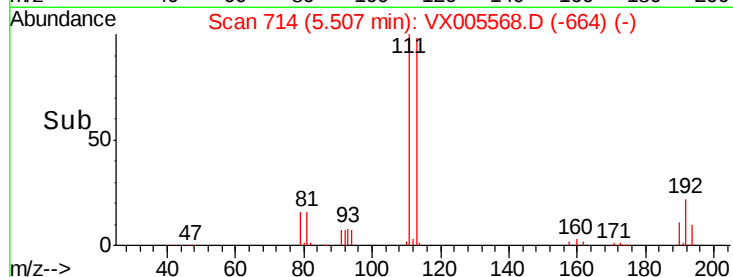
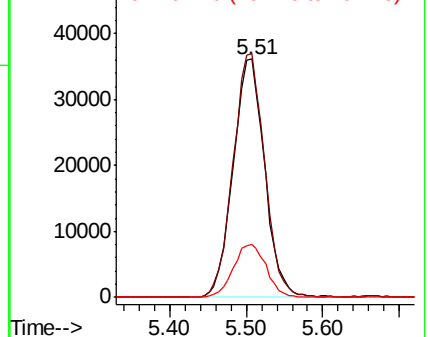
192 23.0 19.4 29.2



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: 4.577 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

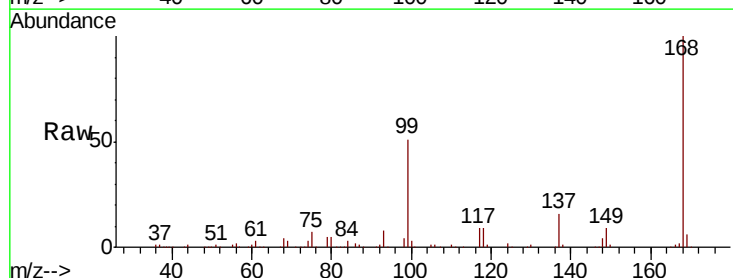
Tgt Ion: 75 Resp: 14288

Ion Ratio Lower Upper

75 100

110 10.7 18.0 54.0#

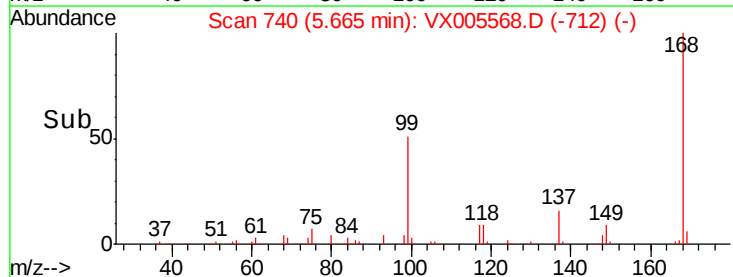
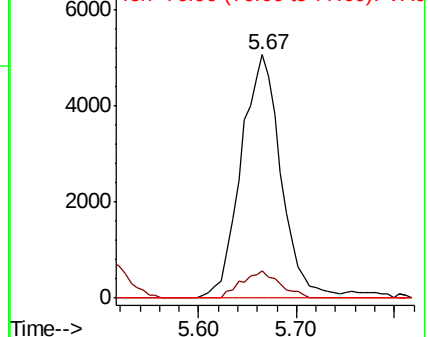
77 0.0 24.6 36.8#

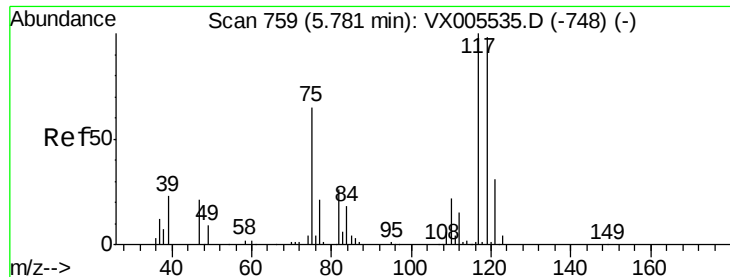


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

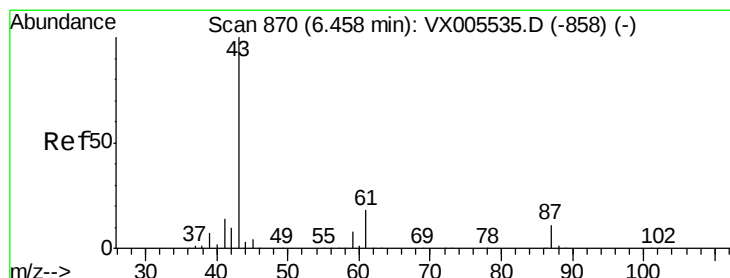
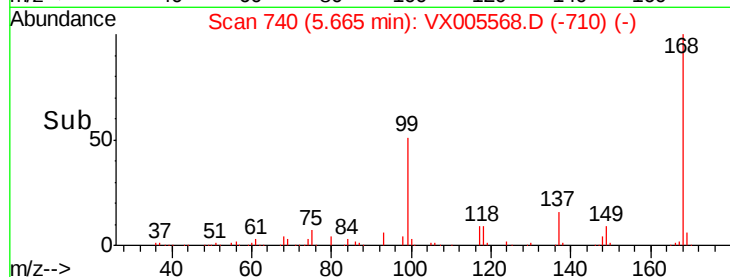
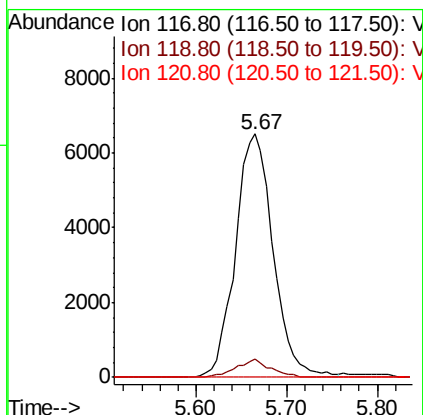
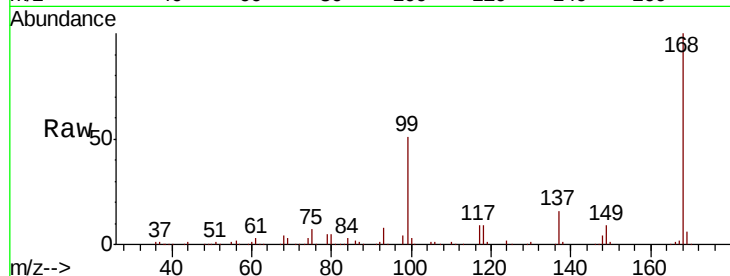




#38
Carbon Tetrachloride
Concen: 5.711 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

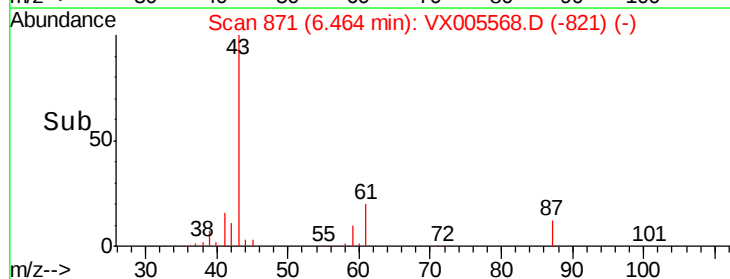
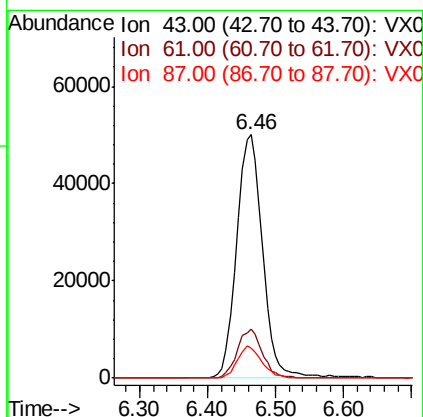
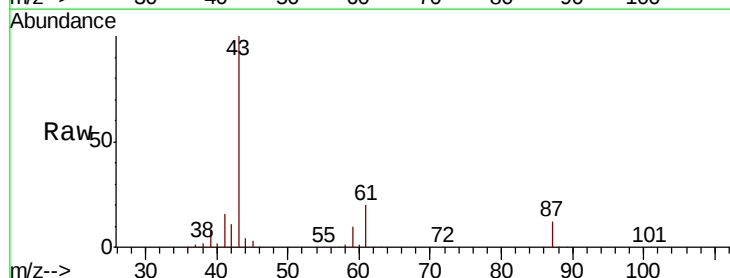
Instrument :
MSVOA_X
ClientSampleId :
OK-03-102318

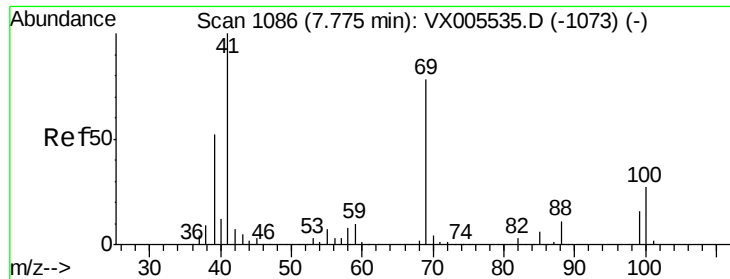
Tot Ion:117 Resp: 18778
Ion Ratio Lower Upper
117 100
119 7.5 78.8 118.2#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 22.250 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.01 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

Tgt Ion: 43 Resp: 132830
Ion Ratio Lower Upper
43 100
61 19.5 17.0 25.4
87 12.6 11.4 17.2

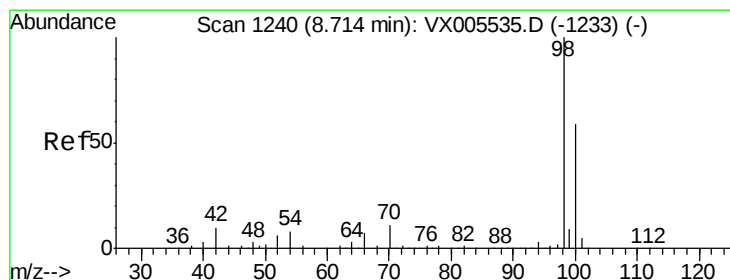
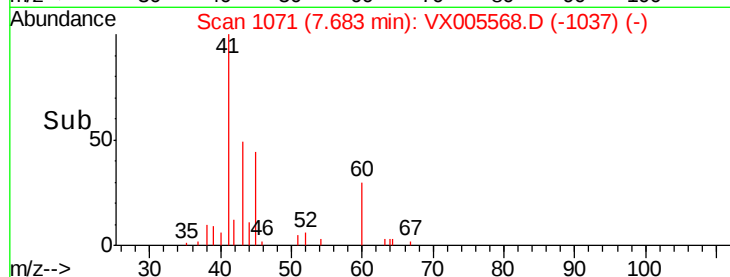
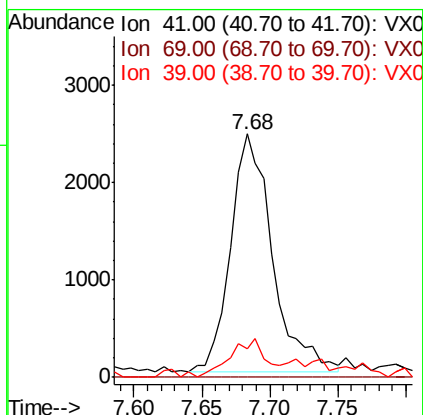
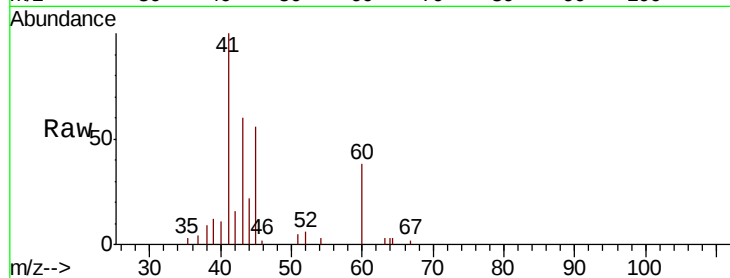




#48
Methvl methacrylate
Concen: 1.808 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

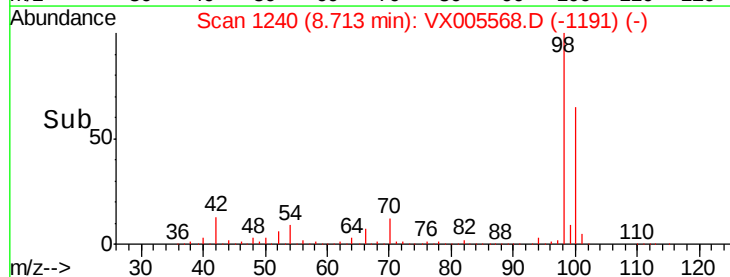
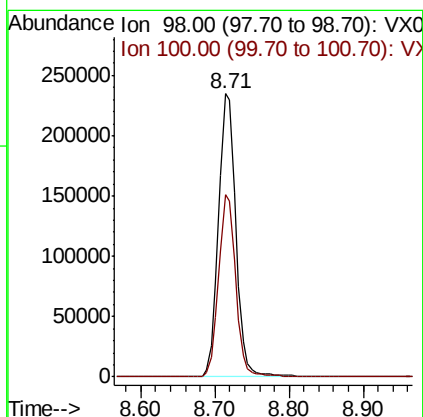
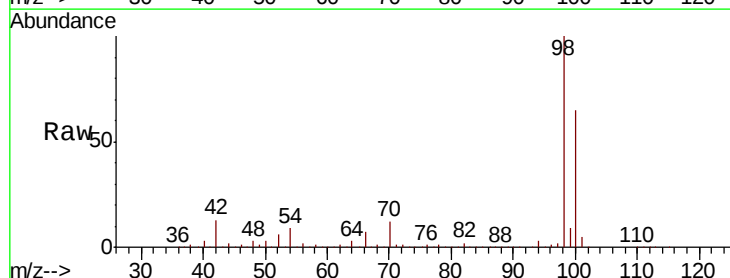
Instrument :
MSVOA_X
ClientSampleId :
OK-03-102318

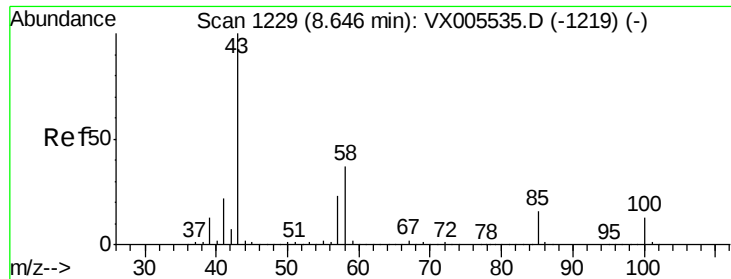
Tot Ion: 41 Resp: 5258
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 13.7 42.7 64.1#



#50
Toluene-d8
Concen: 48.645 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

Tgt Ion: 98 Resp: 380751
Ion Ratio Lower Upper
98 100
100 63.4 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.658 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

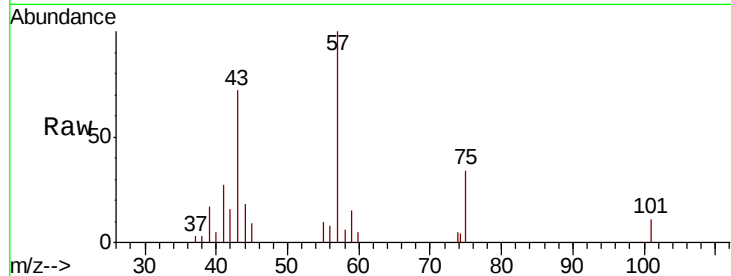
OK-03-102318

Tot Ion: 43 Resp: 2641

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

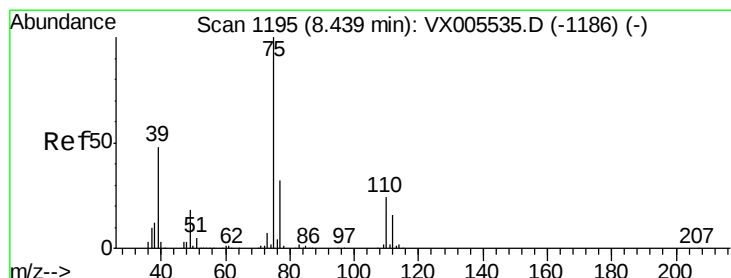
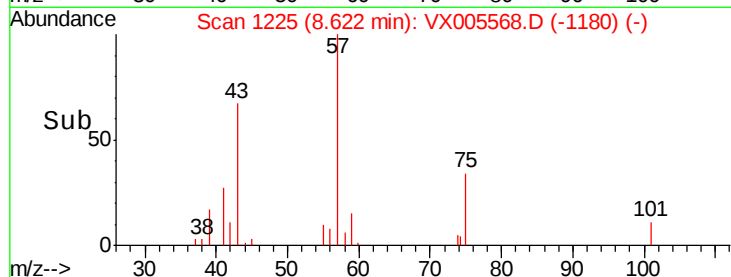
1000

500

0

8.55 8.60 8.65 8.70

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.251 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

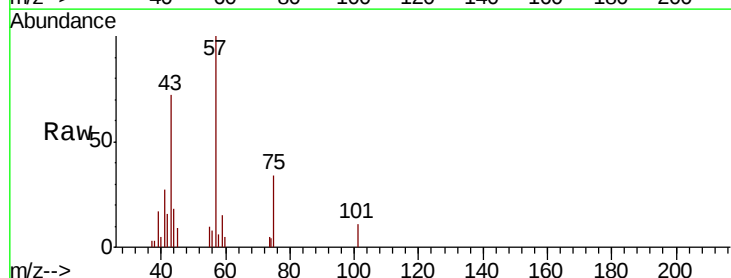
Tgt Ion: 75 Resp: 882

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 41.9 36.4 54.6



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

800

600

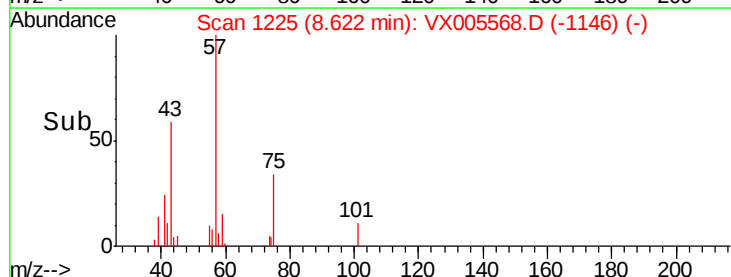
400

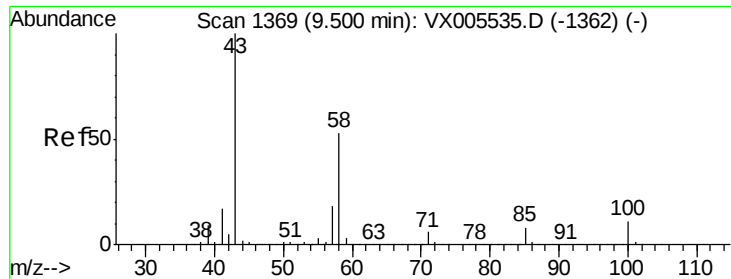
200

0

8.55 8.60 8.65 8.70

Time-->

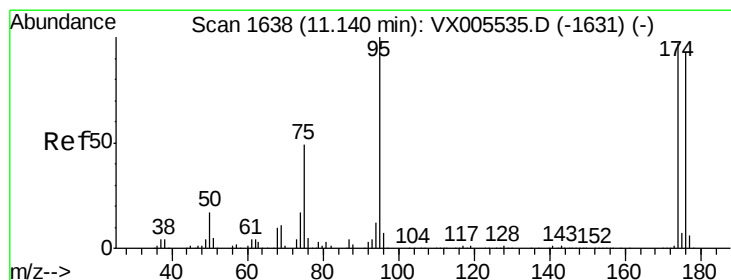
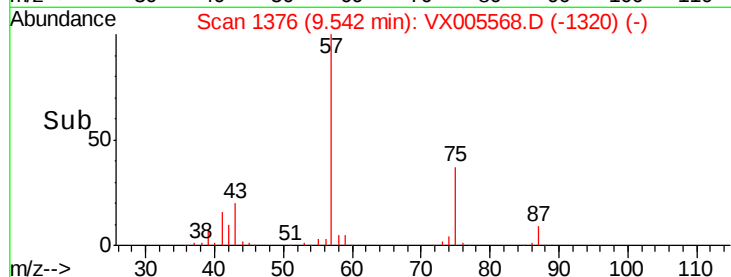
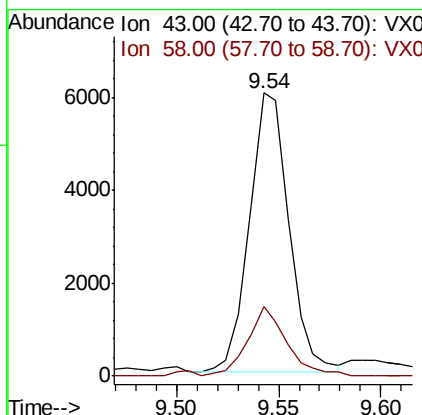
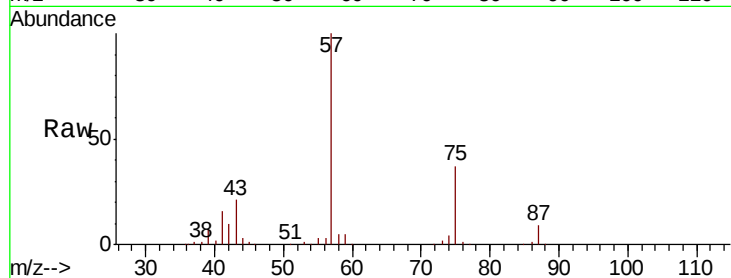




#59
2-Hexanone
Concen: 2.554 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

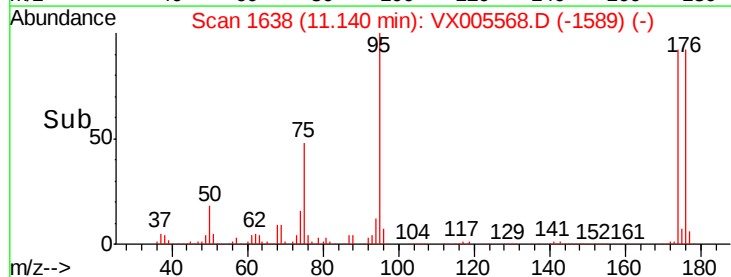
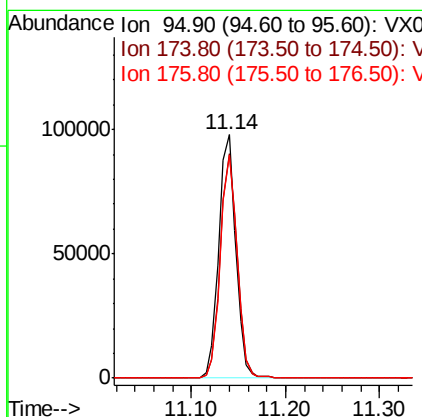
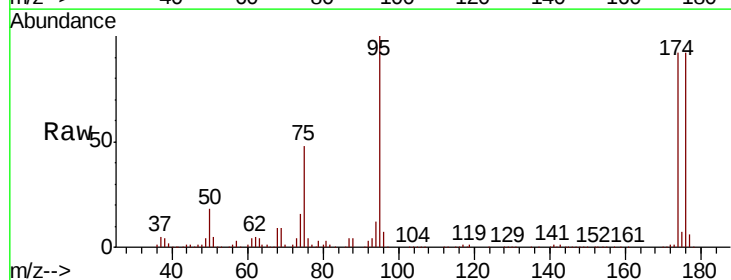
Instrument :
MSVOA_X
ClientSampleId :
OK-03-102318

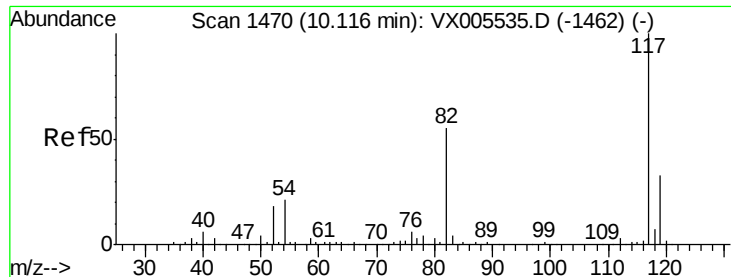
Tot Ion: 43 Resp: 8078
Ion Ratio Lower Upper
43 100
58 24.8 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 41.982 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

Tgt Ion: 95 Resp: 124092
Ion Ratio Lower Upper
95 100
174 91.9 0.0 185.2
176 90.6 0.0 178.6

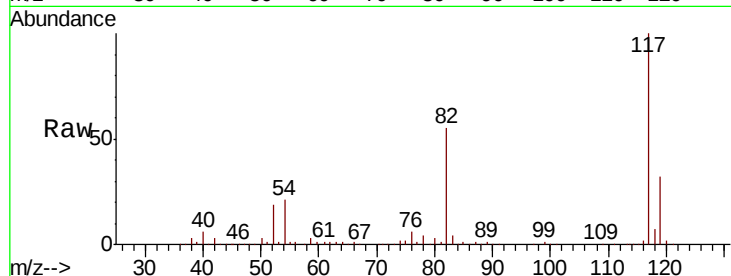




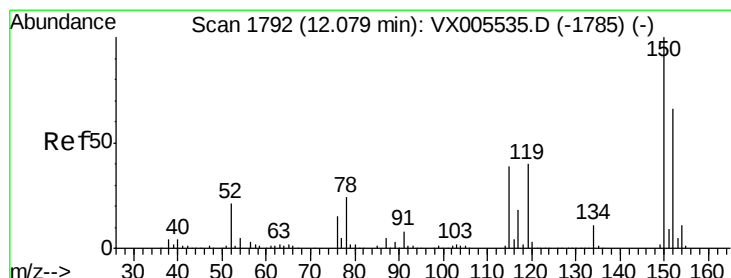
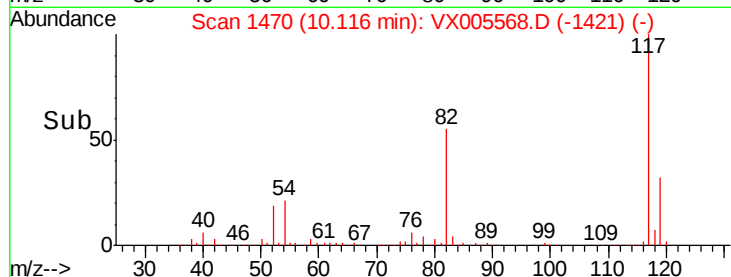
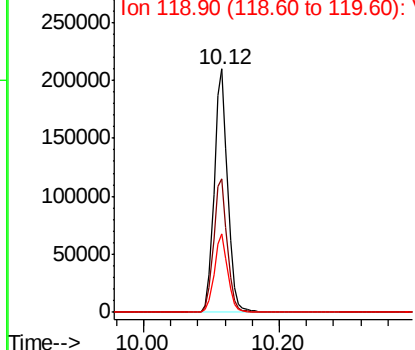
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

Instrument :
MSVOA_X
ClientSampleId :
OK-03-102318

Tot Ion:117 Resp: 286241
Ion Ratio Lower Upper
117 100
82 55.1 47.8 71.6
119 32.2 29.3 43.9

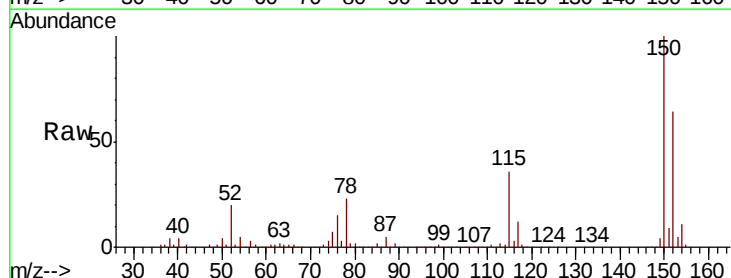


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

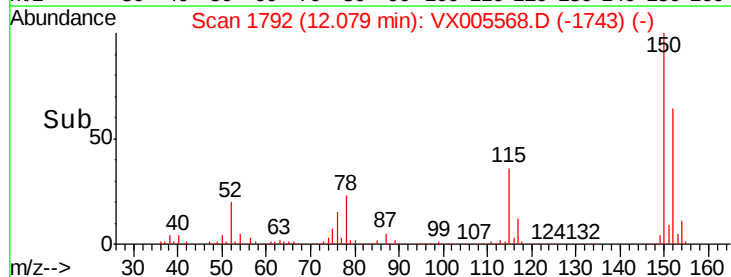
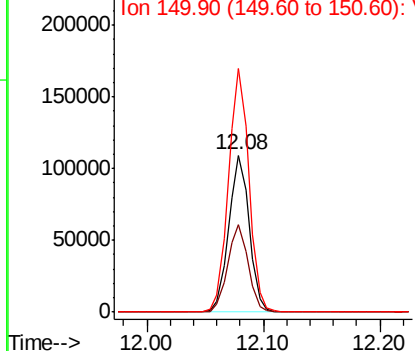


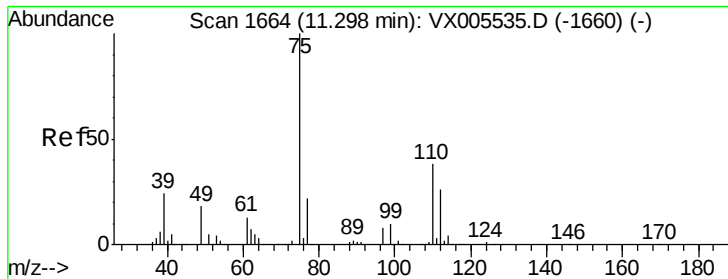
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

Tgt Ion:152 Resp: 132934
Ion Ratio Lower Upper
152 100
115 55.4 39.0 117.0
150 155.7 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





#76

1,2,3-Trichloropropane

Concen: 23.207 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

Instrument :

MSVOA_X

ClientSampleId :

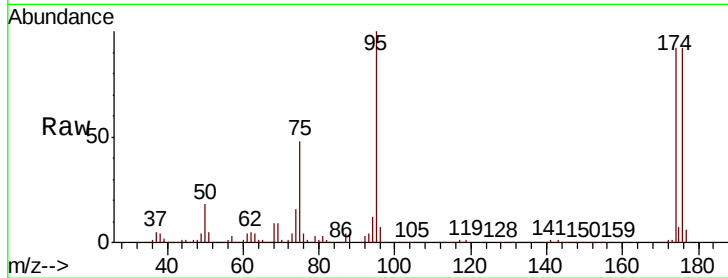
OK-03-102318

Tot Ion: 75 Resp: 62836

Ion Ratio Lower Upper

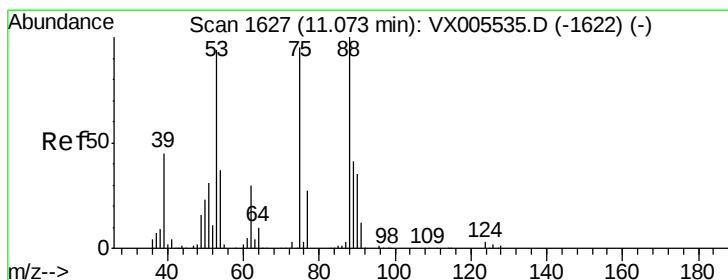
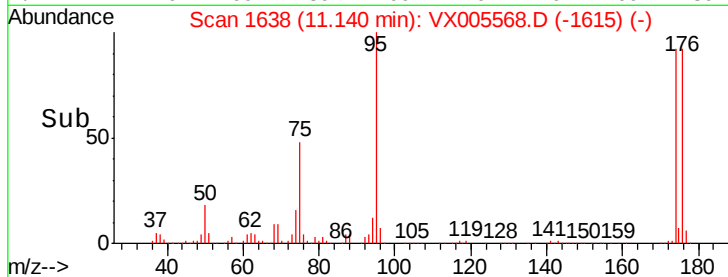
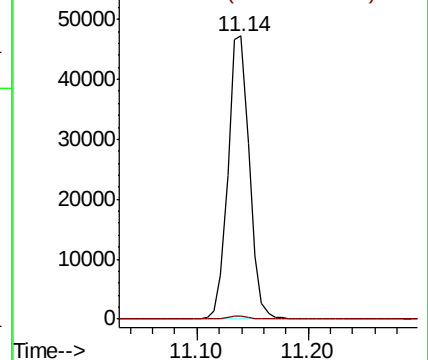
75 100

77 1.1 20.2 60.6#



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: 72.897 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005568.D

Acq: 25 Oct 2018 04:04

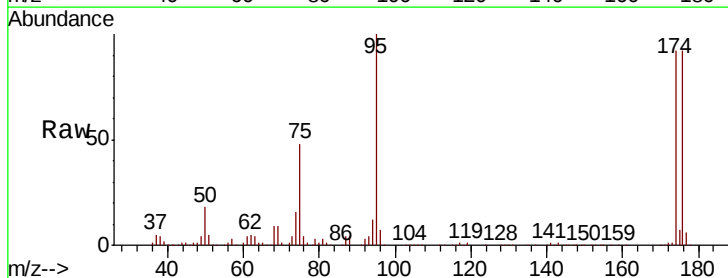
Tgt Ion: 75 Resp: 62836

Ion Ratio Lower Upper

75 100

53 0.4 80.1 120.1#

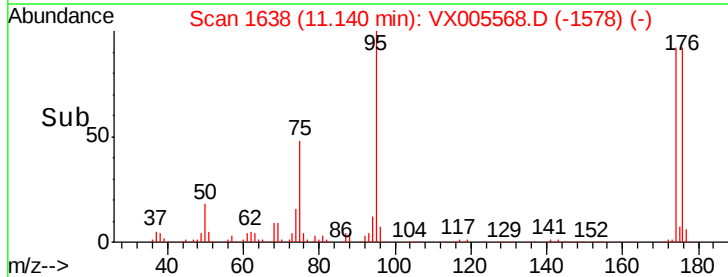
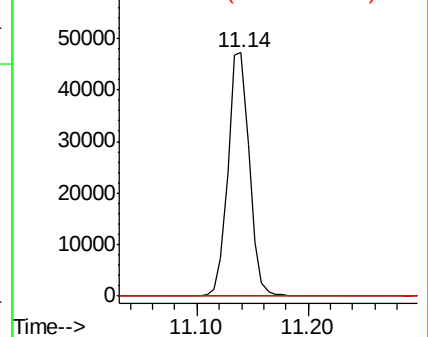
89 0.0 37.2 55.8#

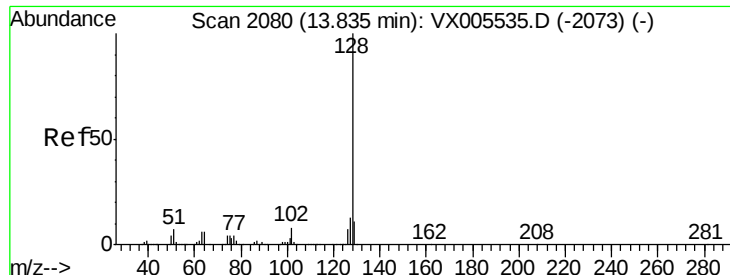


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

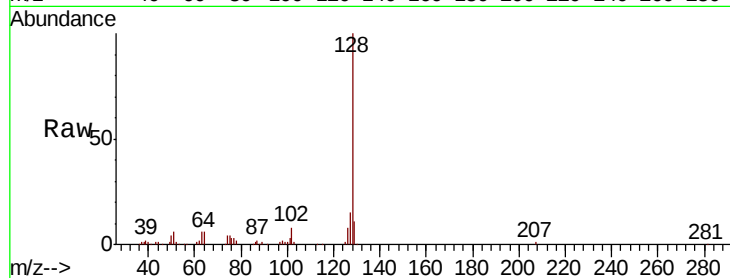




#95
Naphthalene
Concen: 3.067 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005568.D
Acq: 25 Oct 2018 04:04

Instrument :
MSVOA_X
ClientSampleId :
OK-03-102318

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.2	15.2
129	10.5	8.6	12.8



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

