

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111318\
 Data File : VX005959.D
 Acq On : 13 Nov 2018 19:54
 Operator : JC/MD
 Sample : J5931-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS035-181112

Quant Time: Nov 14 03:29:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	93193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	133479	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	121665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	59338	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	59315	55.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.72%	
35) Dibromofluoromethane	5.50	113	48865	53.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.64%	
50) Toluene-d8	8.71	98	160590	53.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.42%	
62) 4-Bromofluorobenzene	11.14	95	54216	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	

Target Compounds

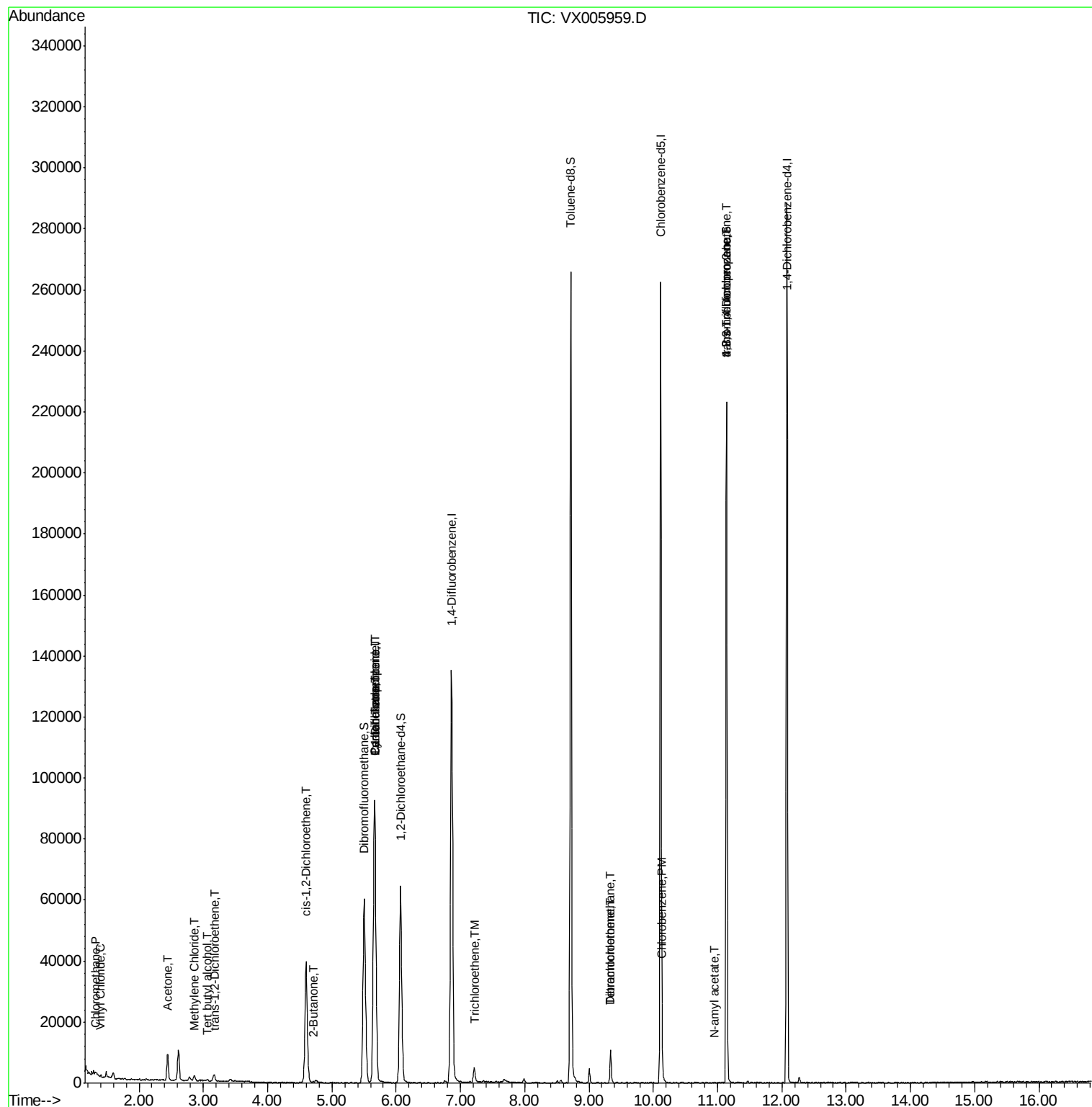
						Qvalue
3) Chloromethane	1.32	50	582	0.528	ug/l #	87
4) Vinyl Chloride	1.40	62	413	0.373	ug/l	100
11) Tert butyl alcohol	3.05	59	459	1.496	ug/l #	72
16) Acetone	2.45	43	9550	16.555	ug/l	97
18) Methyl Acetate	2.78	43	1627	Below Cal		91
20) Methylene Chloride	2.85	84	710	0.749	ug/l #	78
21) trans-1,2-Dichloroethene	3.17	96	845	0.973	ug/l	91
25) 2-Butanone	4.71	43	605	0.667	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	23289	24.276	ug/l	91
31) Cyclohexane	5.66	56	1737	1.164	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6661	5.177	ug/l #	49
38) Carbon Tetrachloride	5.67	117	8467	6.573	ug/l #	16
44) Trichloroethene	7.21	130	1713	1.798	ug/l	97
60) Dibromochloromethane	9.34	129	1987	1.968	ug/l #	10
64) Tetrachloroethene	9.34	164	2253	2.175	ug/l #	85
65) Chlorobenzene	10.14	112	1739	0.713	ug/l	97
74) N-amyl acetate	10.94	43	21	1.261	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	27673	22.903	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	27673	72.997	ug/l #	9

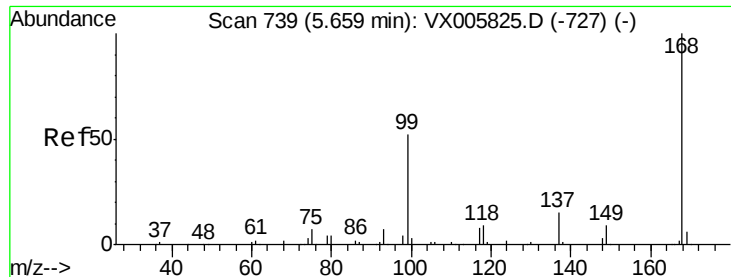
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 07 14:40:53 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

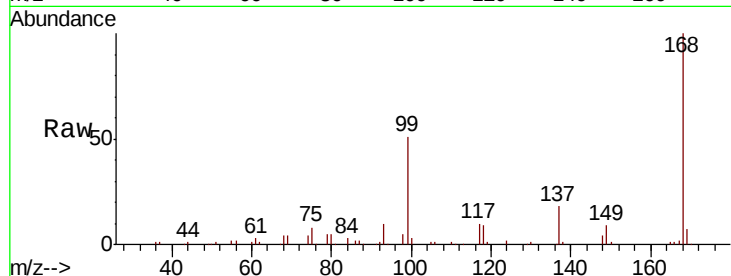
KY038PS035-181112

Tot Ion:168 Resp: 93193

Ion Ratio Lower Upper

168 100

99 50.9 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): VX005825.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX005825.D (-727) (-)

5.67

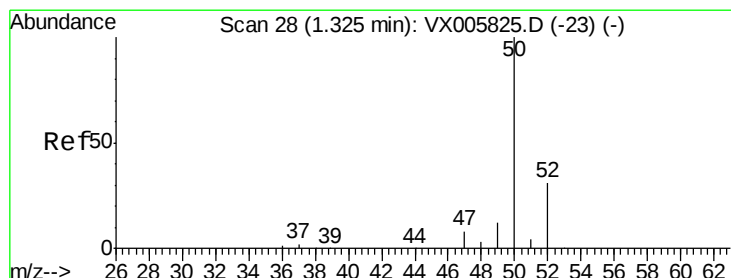
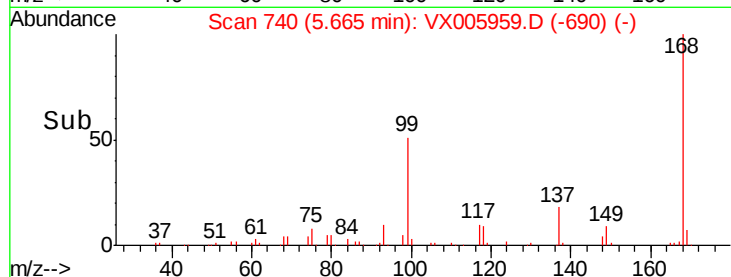
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.528 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005959.D

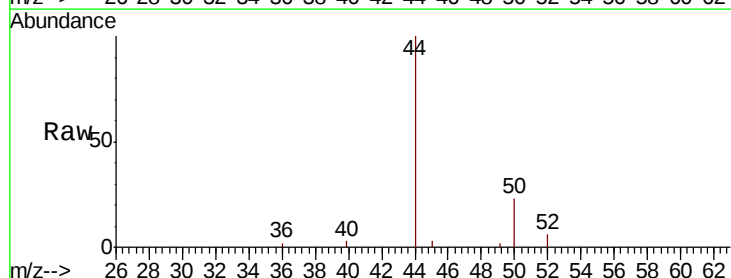
Acq: 13 Nov 2018 19:54

Tgt Ion: 50 Resp: 582

Ion Ratio Lower Upper

50 100

52 25.4 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX005825.D (-23) (-)

Ion 51.90 (51.60 to 52.60): VX005825.D (-23) (-)

1.32

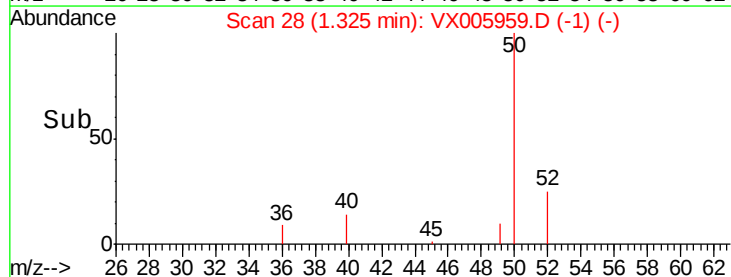
600

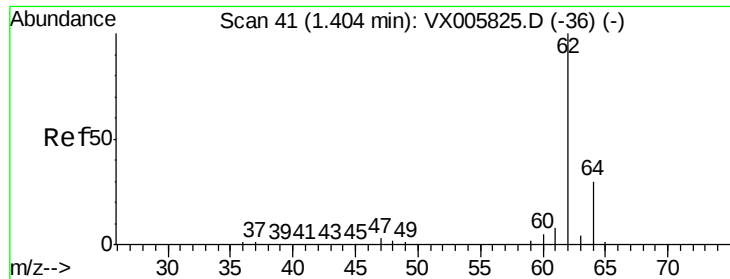
400

200

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.373 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

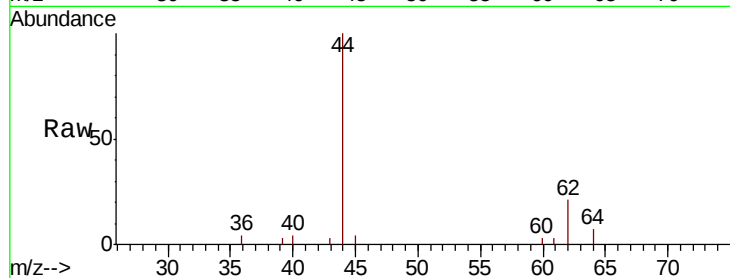
KY038PS035-181112

Tot Ion: 62 Resp: 413

Ion Ratio Lower Upper

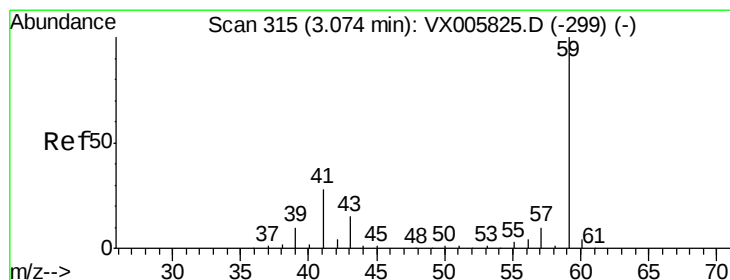
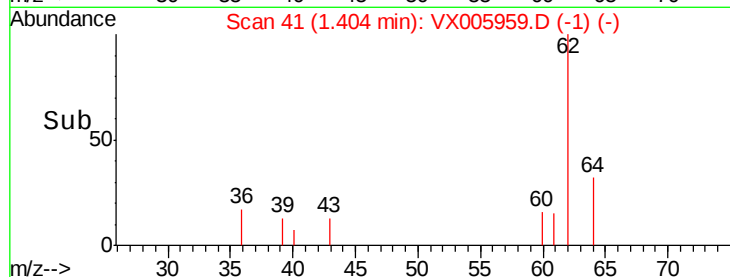
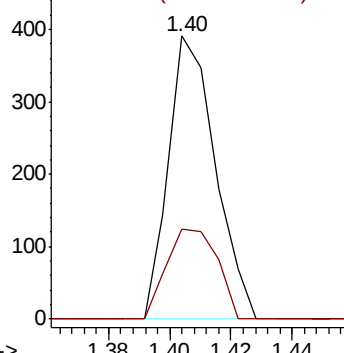
62 100

64 31.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 1.496 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.02 min

Lab File: VX005959.D

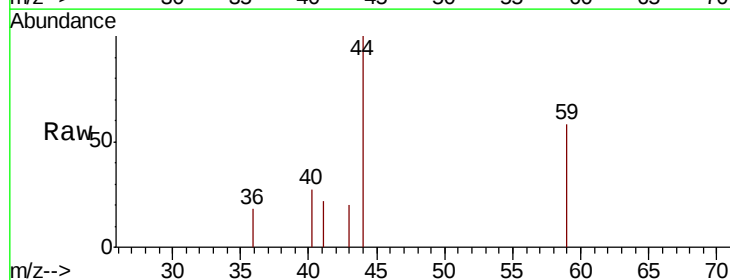
Acq: 13 Nov 2018 19:54

Tgt Ion: 59 Resp: 459

Ion Ratio Lower Upper

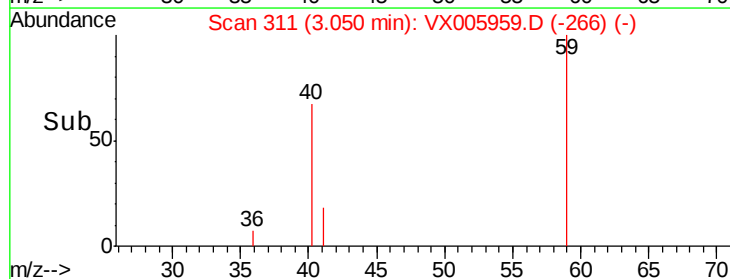
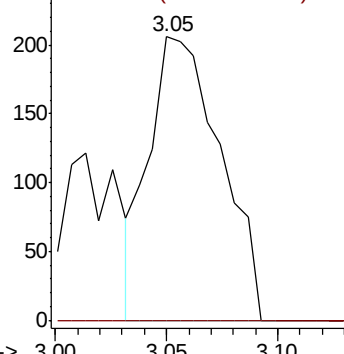
59 100

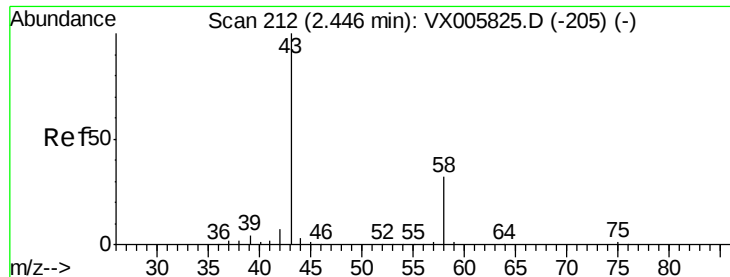
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 16.555 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

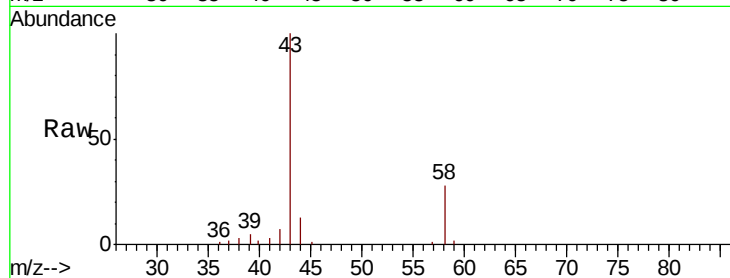
KY038PS035-181112

Tot Ion: 43 Resp: 9550

Ion Ratio Lower Upper

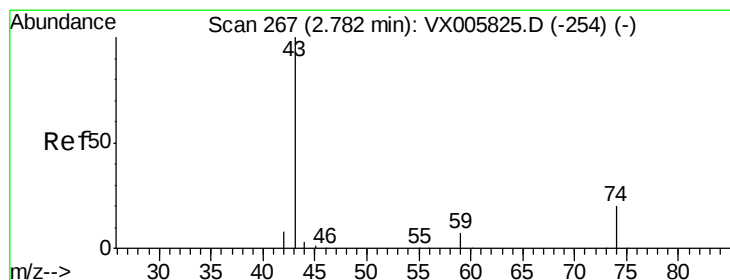
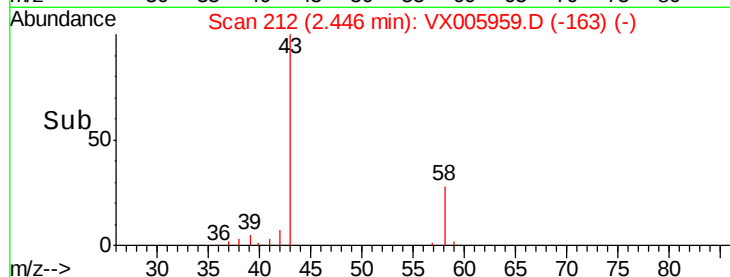
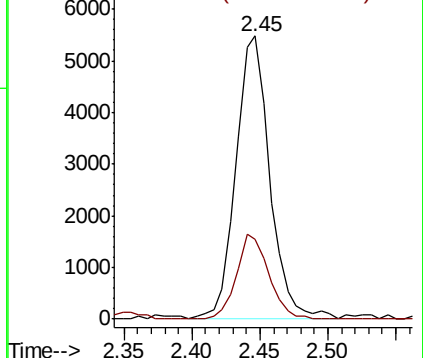
43 100

58 28.3 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005959.D

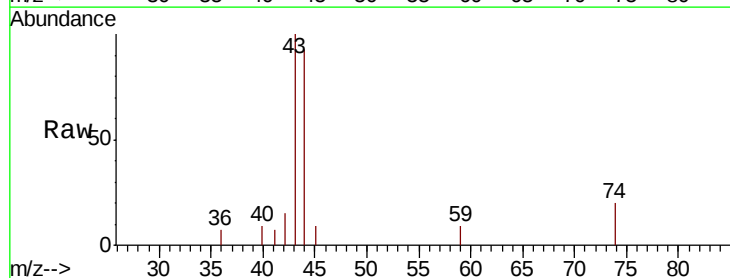
Acq: 13 Nov 2018 19:54

Tgt Ion: 43 Resp: 1627

Ion Ratio Lower Upper

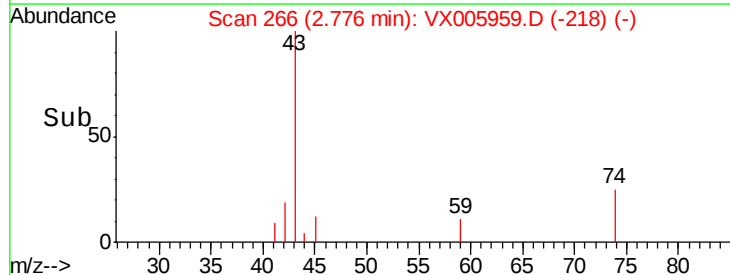
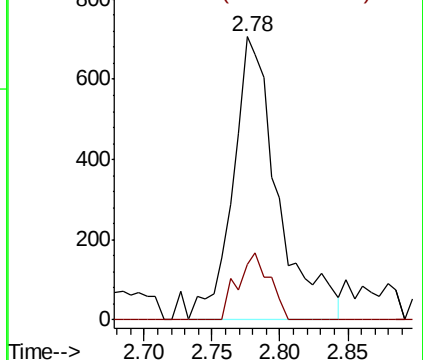
43 100

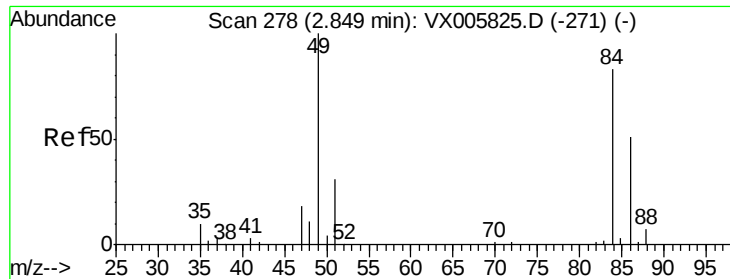
74 16.9 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

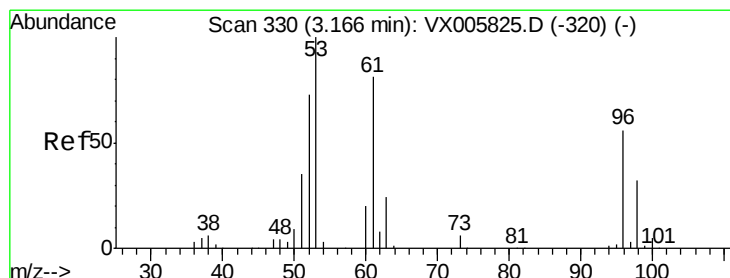
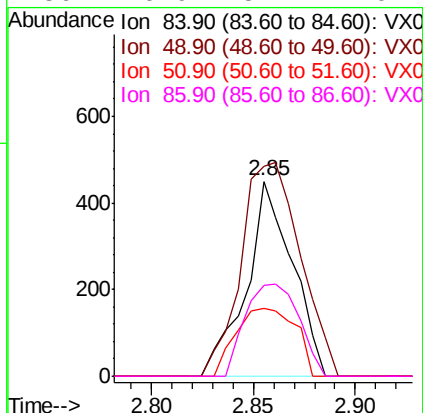
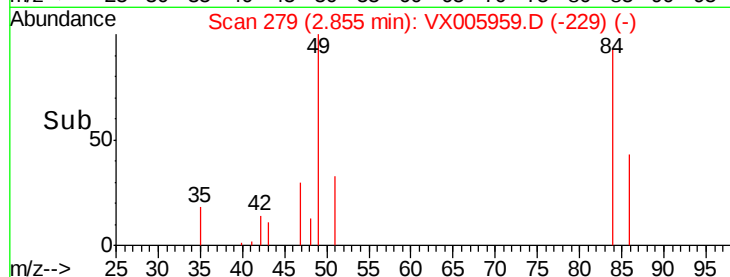
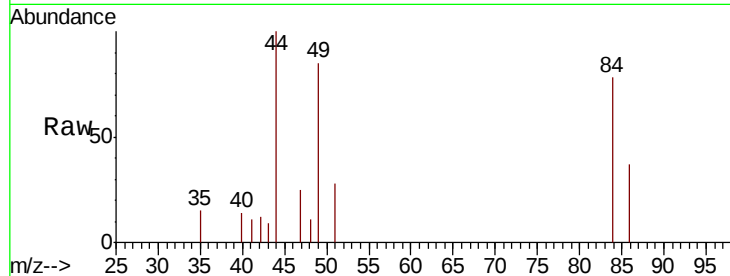




#20
Methvlene Chloride
Concen: 0.749 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

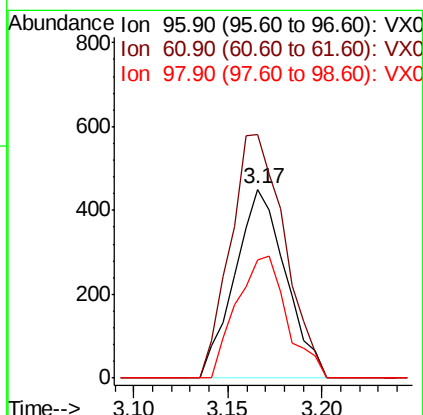
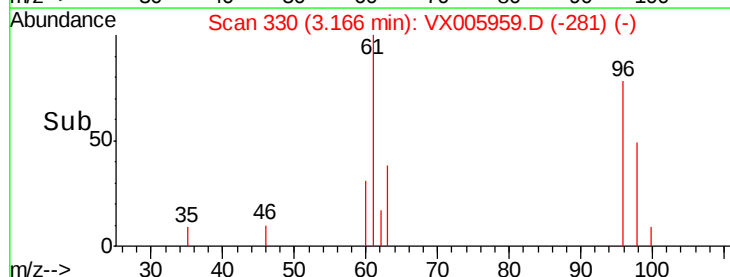
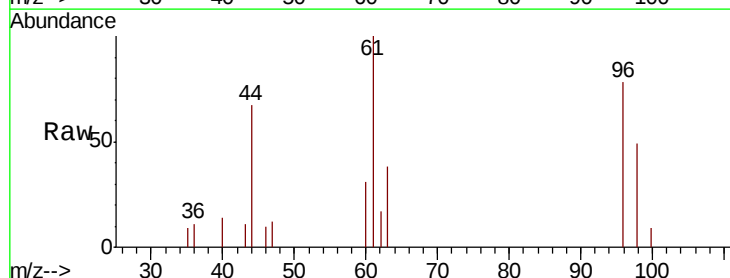
Instrument :
MSVOA_X
ClientSampleId :
KY038PS035-181112

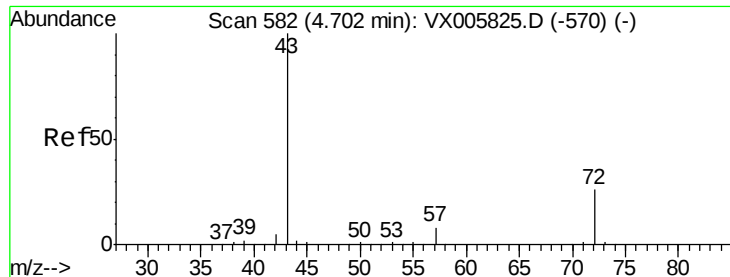
Tot Ion: 84 Resp: 710
Ion Ratio Lower Upper
84 100
49 108.0 109.5 164.3#
51 35.1 33.3 49.9
86 46.9 52.7 79.1#



#21
trans-1,2-Dichloroethene
Concen: 0.973 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

Tgt Ion: 96 Resp: 845
Ion Ratio Lower Upper
96 100
61 128.8 115.6 173.4
98 62.5 50.2 75.2





#25

2-Butanone

Concen: 0.667 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

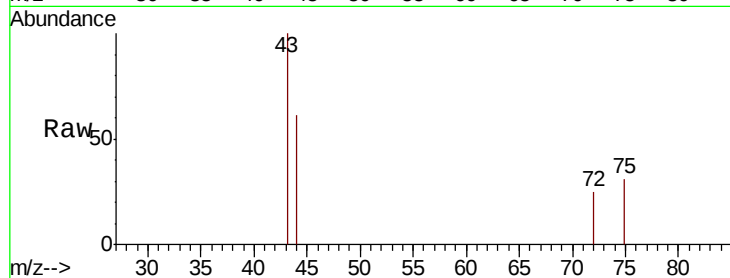
KY038PS035-181112

Tot Ion: 43 Resp: 605

Ion Ratio Lower Upper

43 100

72 24.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

250

200

150

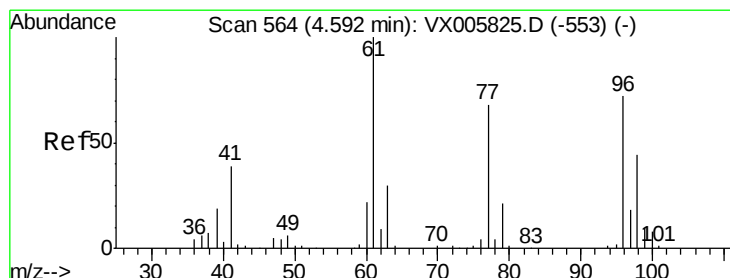
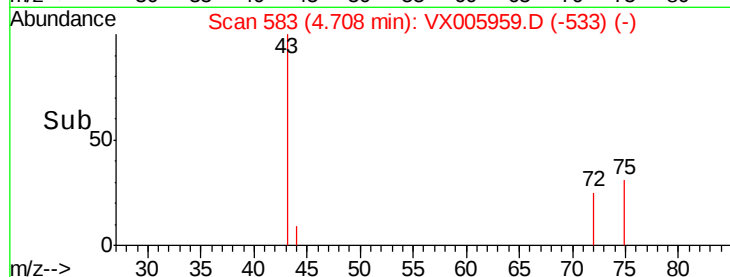
100

50

0

Time-->

4.65 4.70 4.75 4.80



#27

cis-1,2-Dichloroethene

Concen: 24.276 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

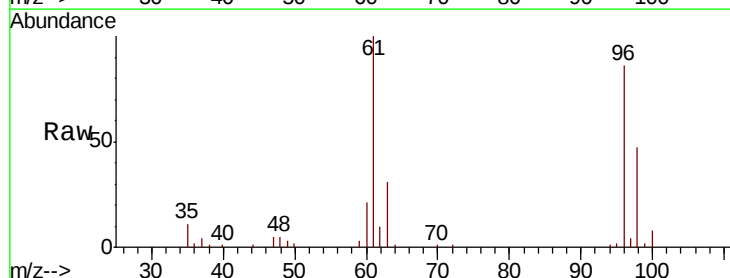
Tgt Ion: 96 Resp: 23289

Ion Ratio Lower Upper

96 100

61 137.1 0.0 304.6

98 65.3 0.0 127.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

15000

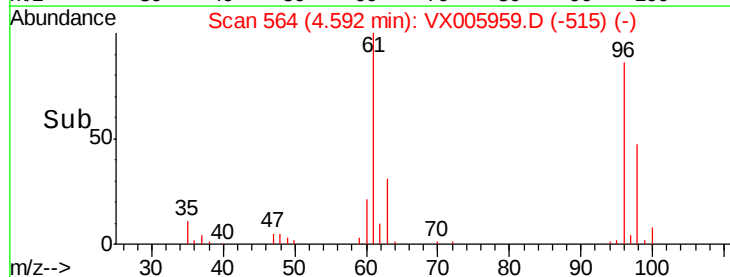
10000

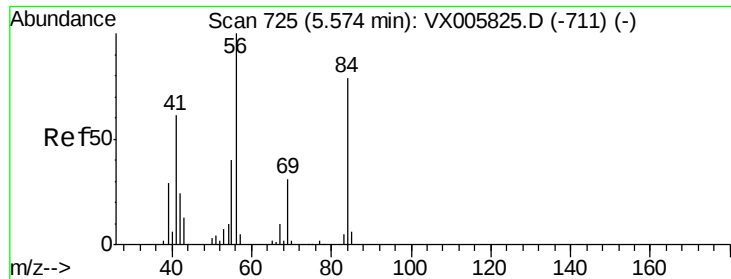
5000

0

Time-->

4.50 4.60 4.70

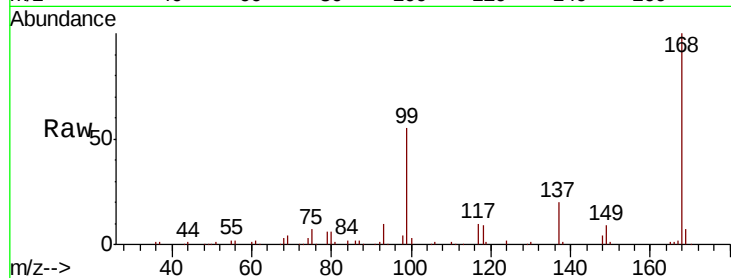




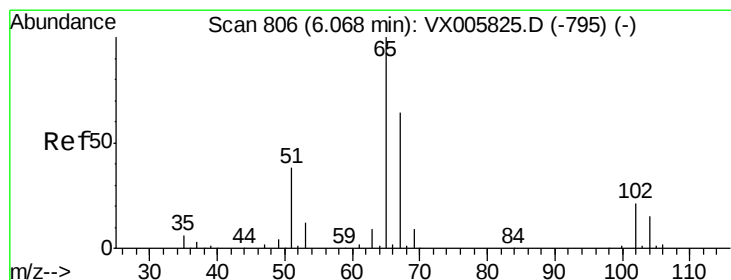
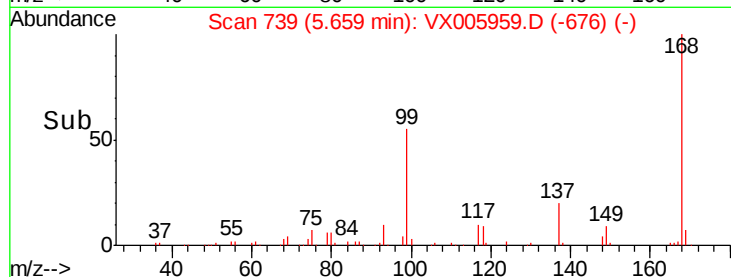
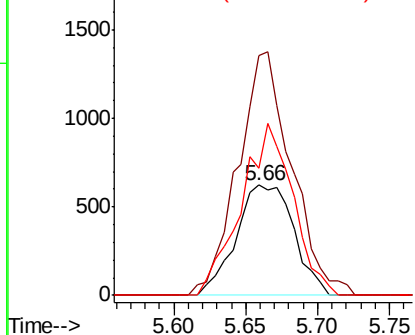
#31
Cyclohexane
Concen: 1.164 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

Instrument :
MSVOA_X
ClientSampleId :
KY038PS035-181112

Tot Ion: 56 Resp: 1737
Ion Ratio Lower Upper
56 100
69 217.5 22.6 34.0#
84 114.9 62.7 94.1#

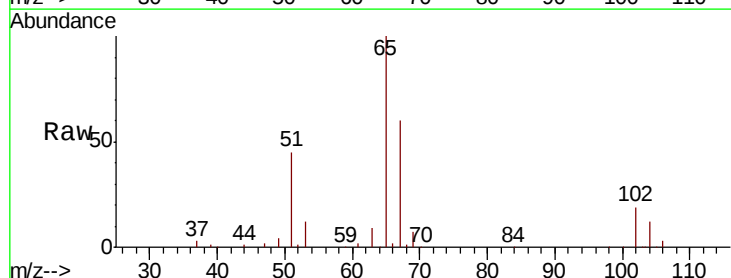


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

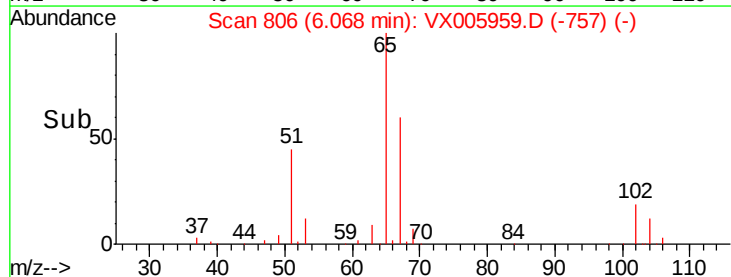
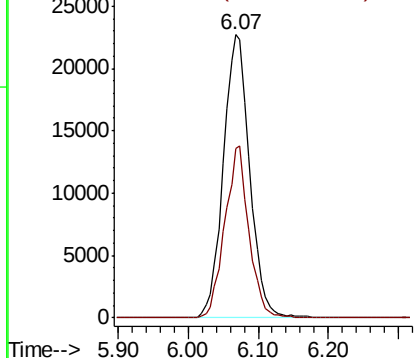


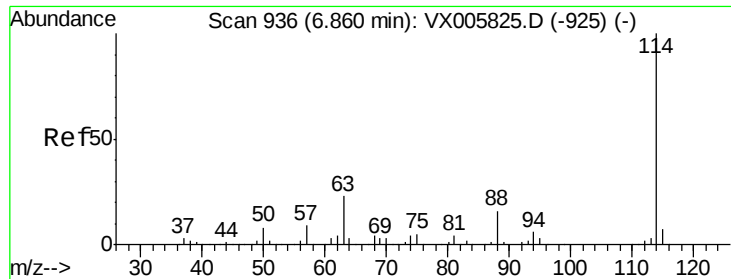
#33
1,2-Dichloroethane-d4
Concen: 55.364 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

Tgt Ion: 65 Resp: 59315
Ion Ratio Lower Upper
65 100
67 55.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

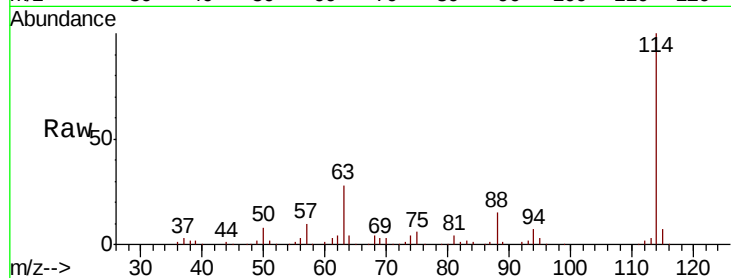




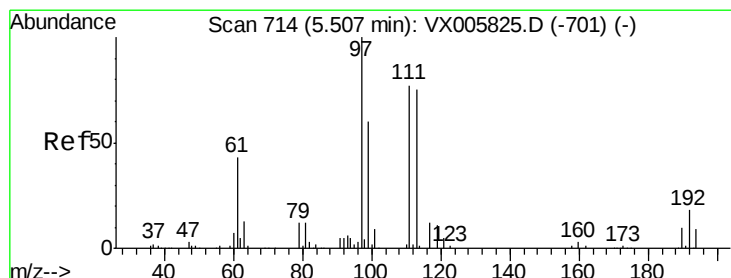
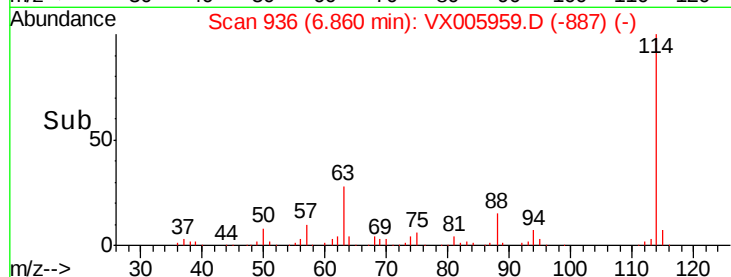
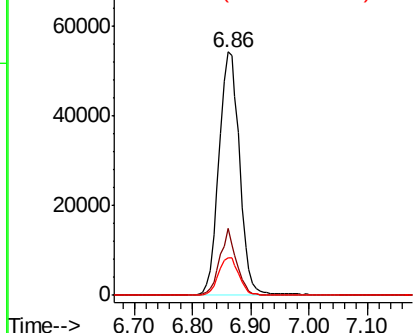
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005959.D
 Acq: 13 Nov 2018 19:54

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS035-181112

Tot Ion:114 Resp: 133479
 Ion Ratio Lower Upper
 114 100
 63 27.7 0.0 42.8
 88 15.5 0.0 31.2

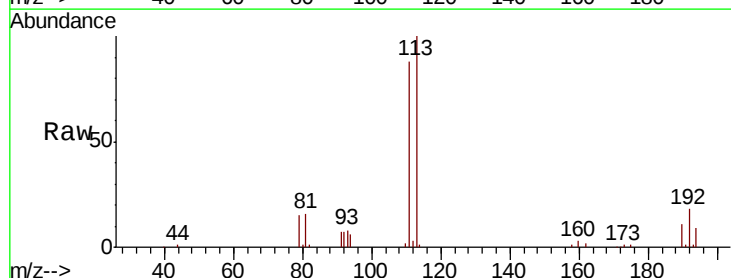


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

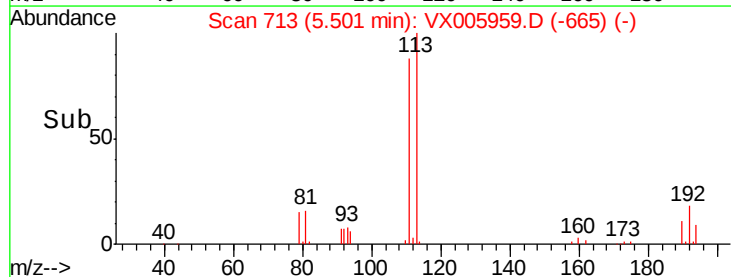
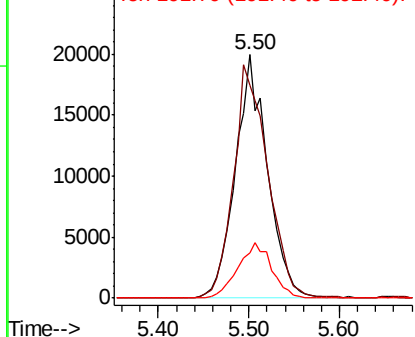


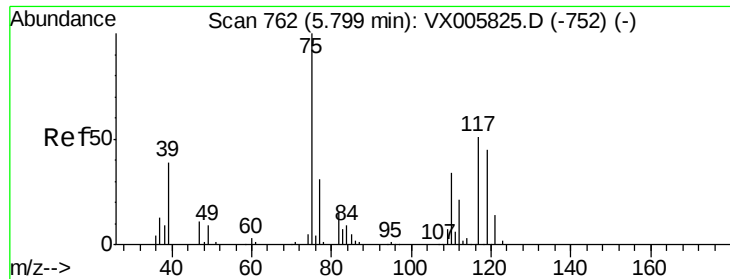
#35
 Dibromofluoromethane
 Concen: 53.824 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.01 min
 Lab File: VX005959.D
 Acq: 13 Nov 2018 19:54

Tgt Ion:113 Resp: 48865
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.3 123.5
 192 24.0 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: 5.177 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

KY038PS035-181112

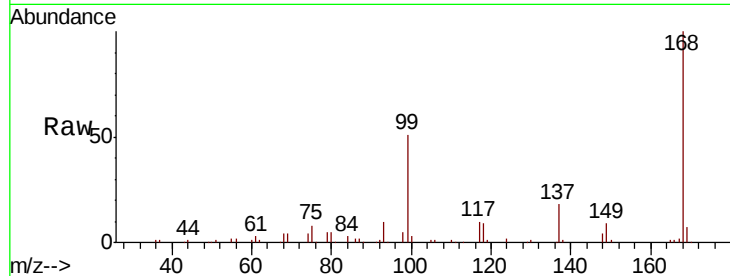
Tot Ion: 75 Resp: 6661

Ion Ratio Lower Upper

75 100

110 8.7 17.4 52.2#

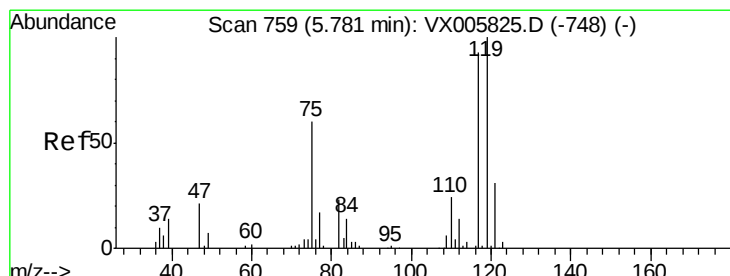
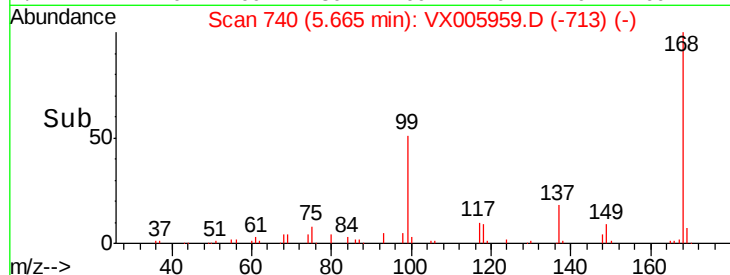
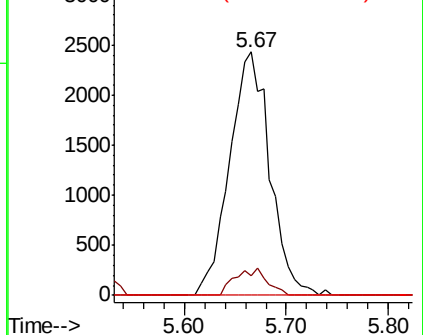
77 0.0 25.8 38.6#



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: 6.573 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

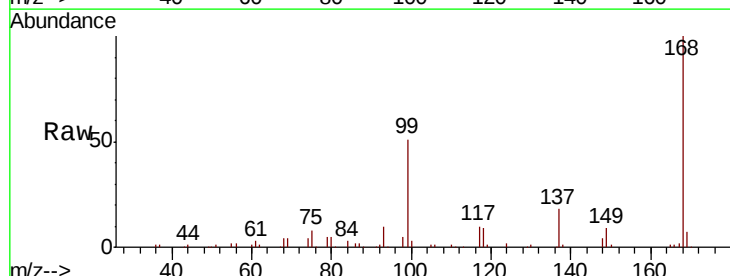
Tgt Ion: 117 Resp: 8467

Ion Ratio Lower Upper

117 100

119 6.4 78.1 117.1#

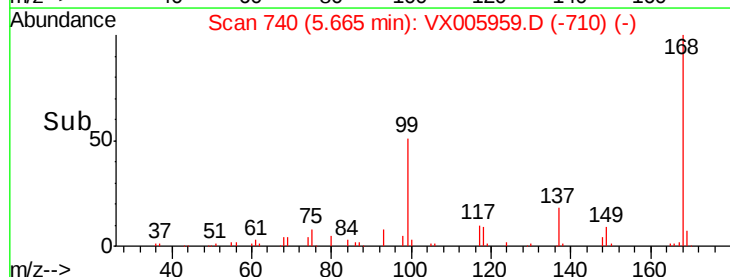
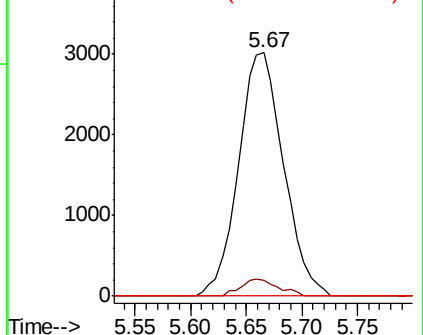
121 0.0 24.6 36.8#

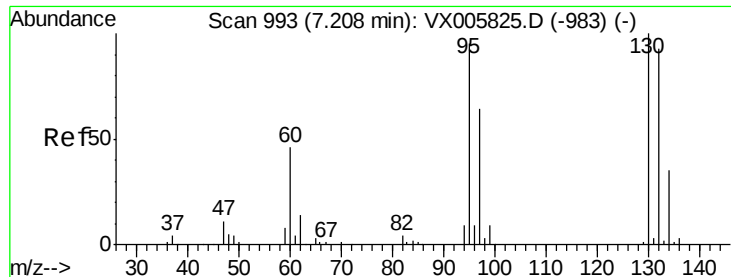


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 1.798 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

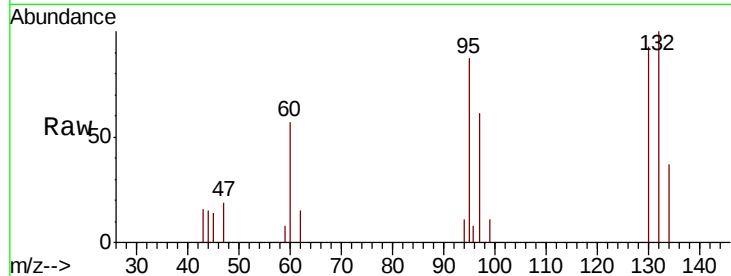
KY038PS035-181112

Tot Ion:130 Resp: 1713

Ion Ratio Lower Upper

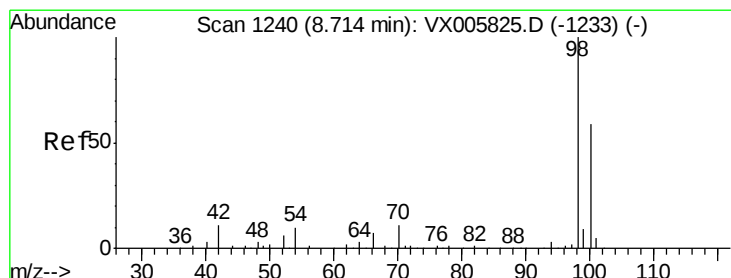
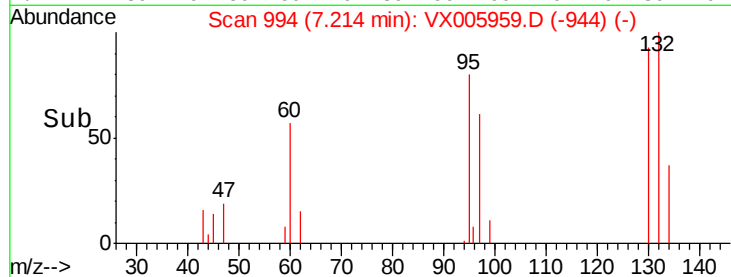
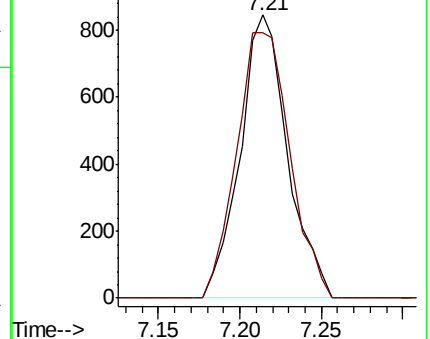
130 100

95 93.8 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 53.206 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005959.D

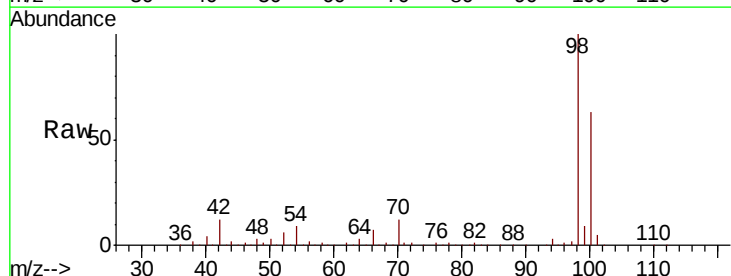
Acq: 13 Nov 2018 19:54

Tgt Ion: 98 Resp: 160590

Ion Ratio Lower Upper

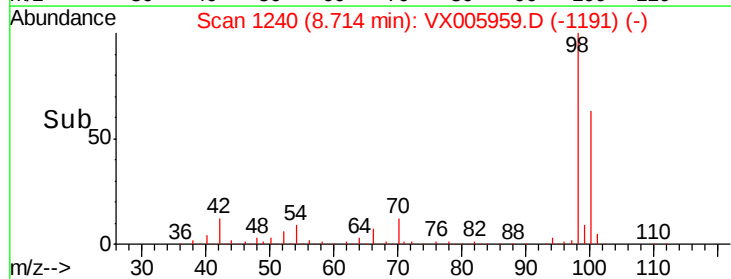
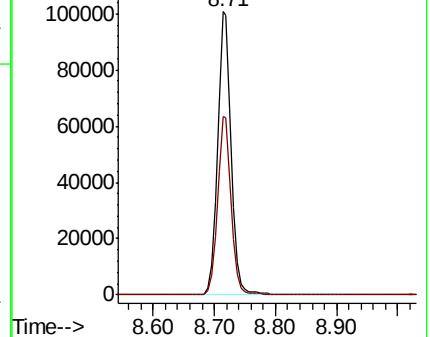
98 100

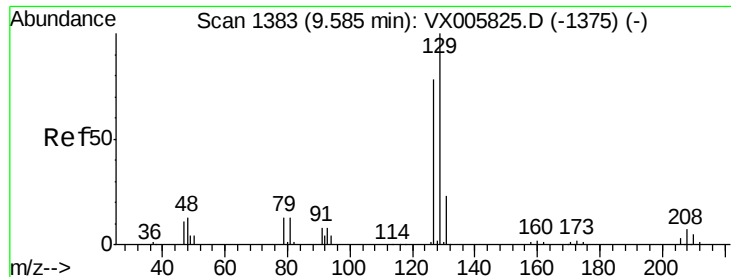
100 63.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 1.968 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

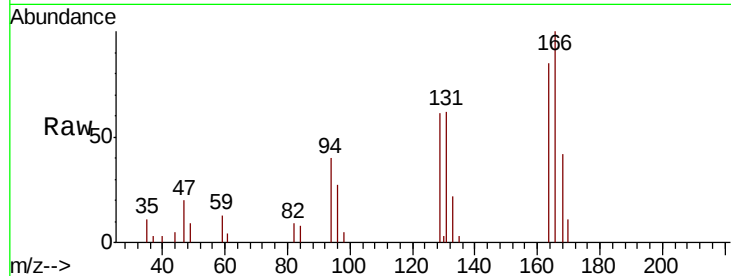
KY038PS035-181112

Tot Ion:129 Resp: 1987

Ion Ratio Lower Upper

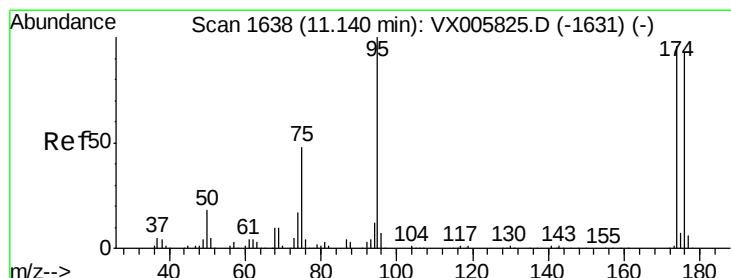
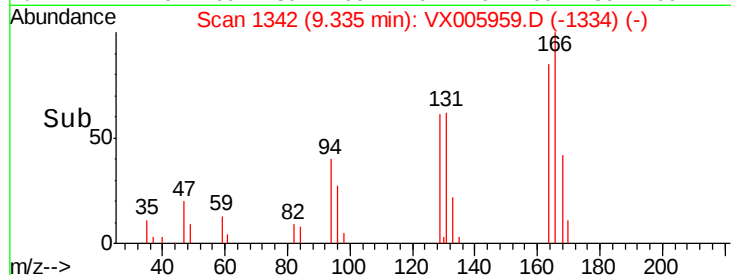
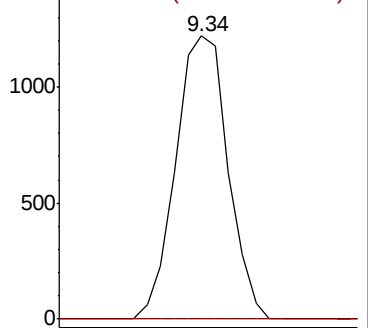
129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.961 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

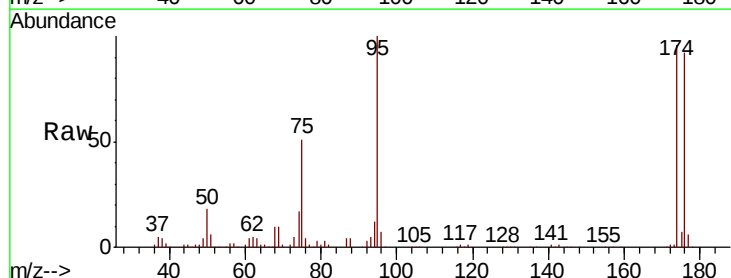
Tgt Ion: 95 Resp: 54216

Ion Ratio Lower Upper

95 100

174 91.0 0.0 184.4

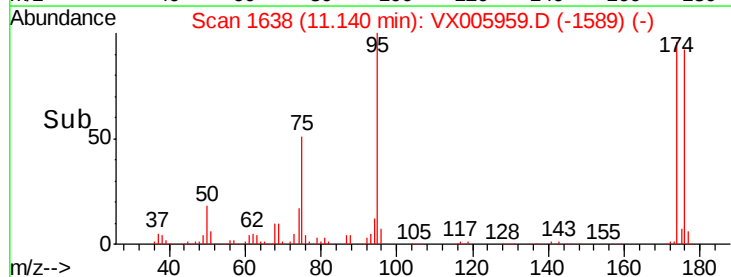
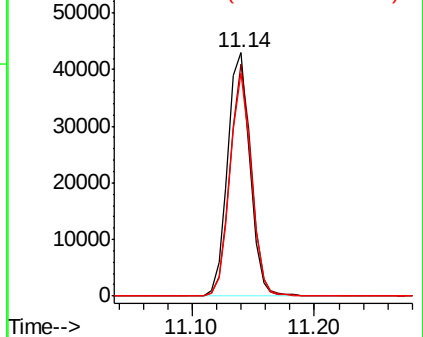
176 87.5 0.0 177.4

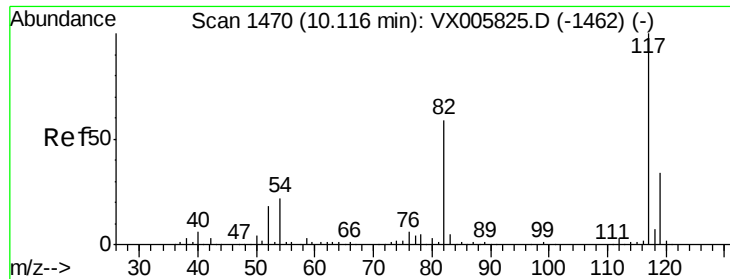


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

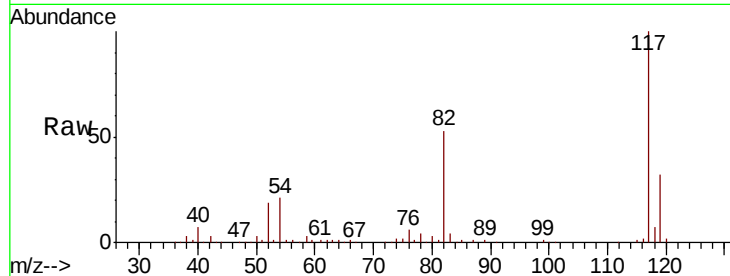




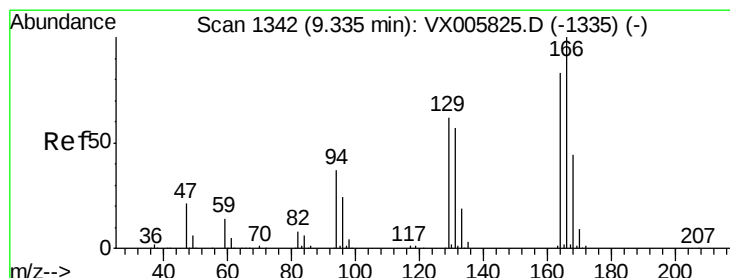
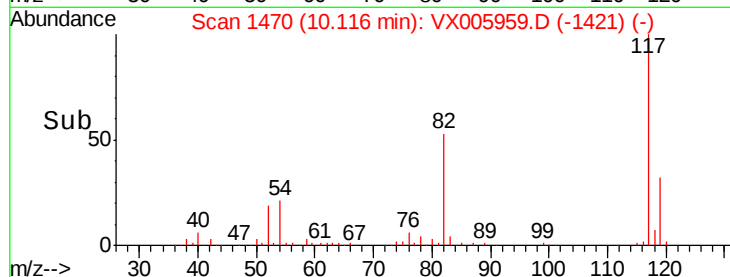
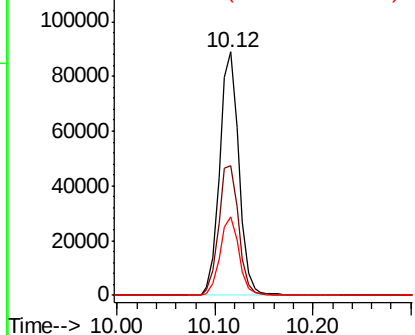
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

Instrument :
MSVOA_X
ClientSampleId :
KY038PS035-181112

Tot Ion:117 Resp: 121665
Ion Ratio Lower Upper
117 100
82 53.5 44.1 66.1
119 32.1 26.2 39.2



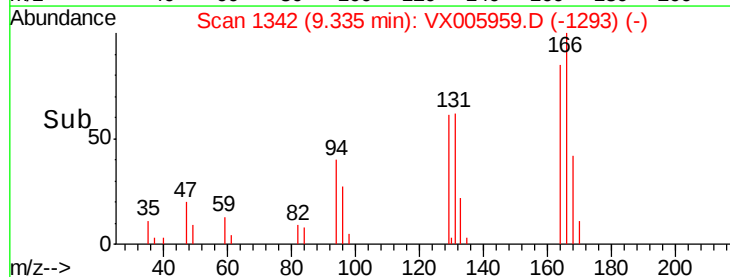
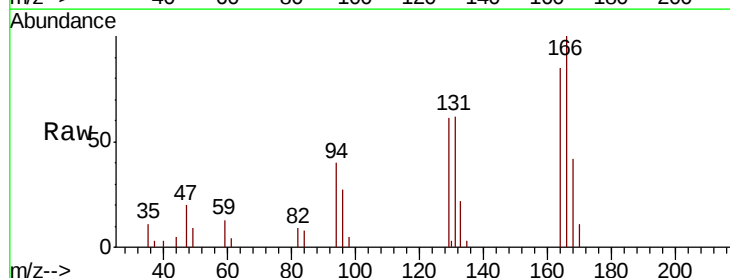
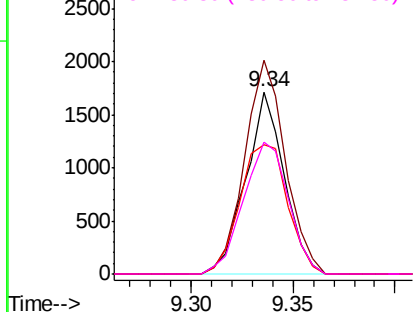
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

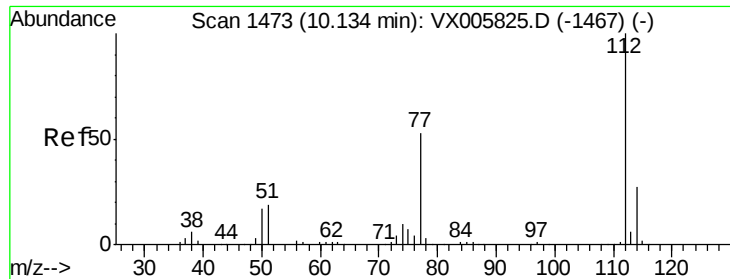


#64
Tetrachloroethene
Concen: 2.175 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

Tgt Ion:164 Resp: 2253
Ion Ratio Lower Upper
164 100
166 117.5 101.9 152.9
129 71.2 72.6 109.0#
131 72.7 71.1 106.7

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

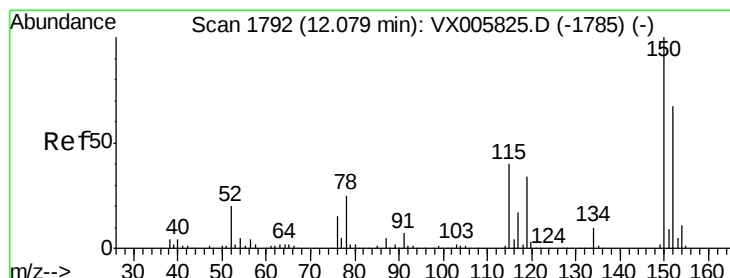
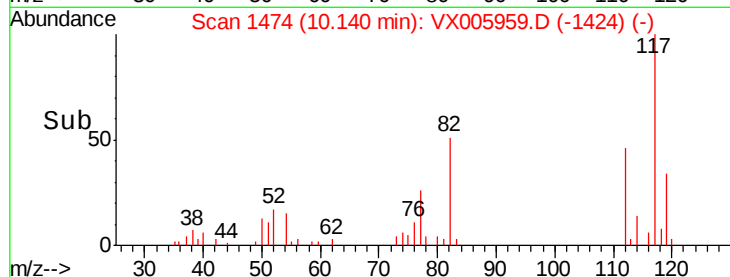
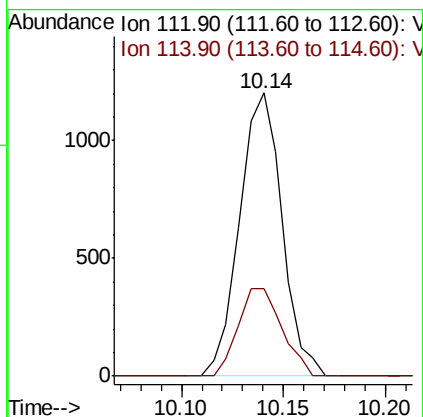
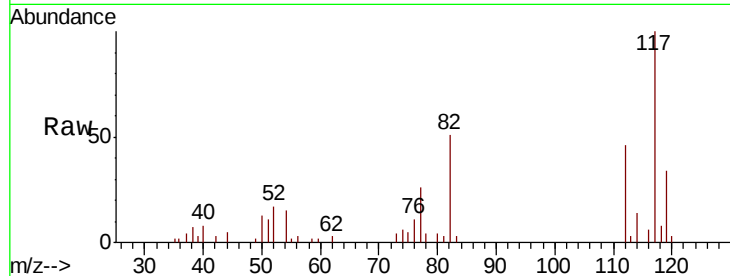




#65
Chlorobenzene
Concen: 0.713 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

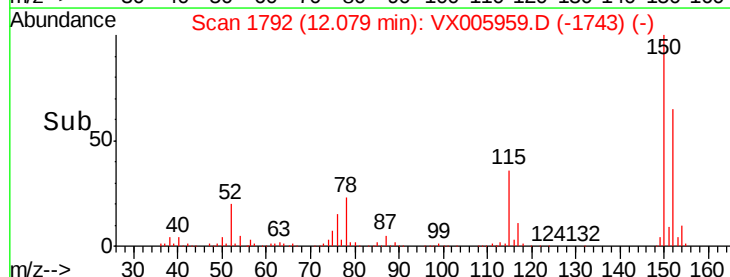
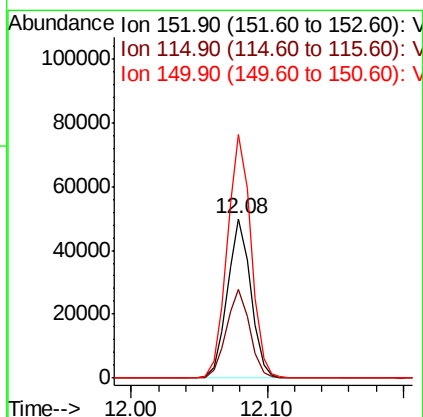
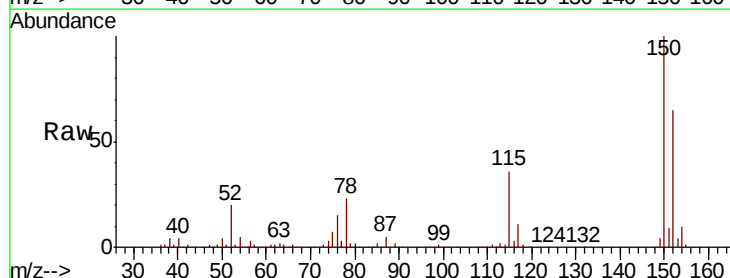
Instrument :
MSVOA_X
ClientSampleId :
KY038PS035-181112

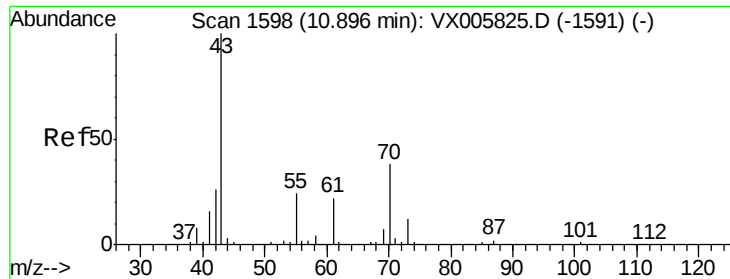
Tot Ion:112 Resp: 1739
Ion Ratio Lower Upper
112 100
114 30.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005959.D
Acq: 13 Nov 2018 19:54

Tgt Ion:152 Resp: 59338
Ion Ratio Lower Upper
152 100
115 55.7 39.4 118.1
150 155.8 0.0 346.4





#74

N-amvl acetate

Concen: 1.261 ug/l

RT: 10.94 min Scan# 1606

Delta R.T. 0.05 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

KY038PS035-181112

Tot Ion: 43 Resp: 21

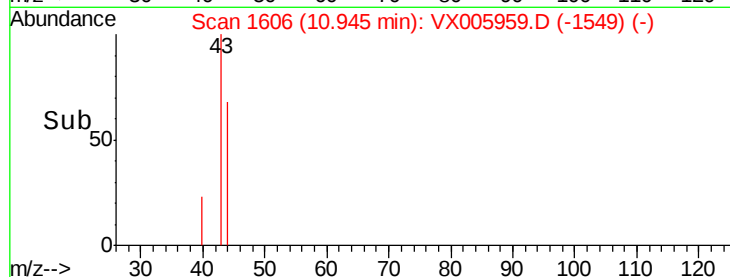
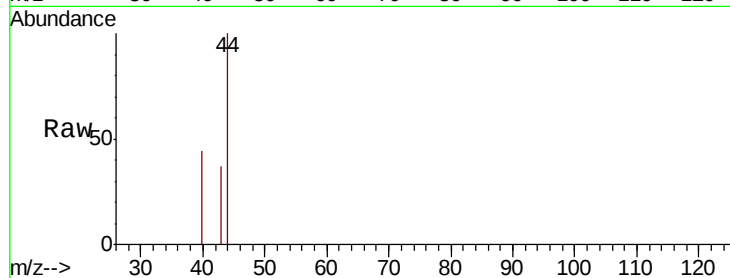
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#

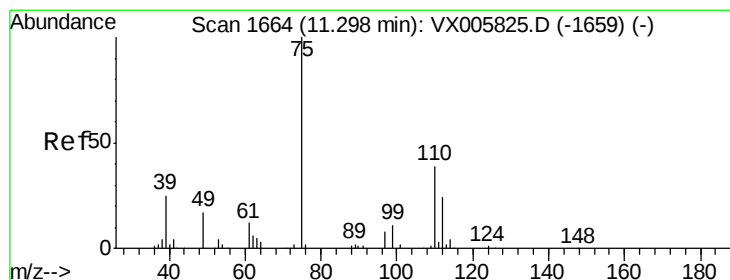
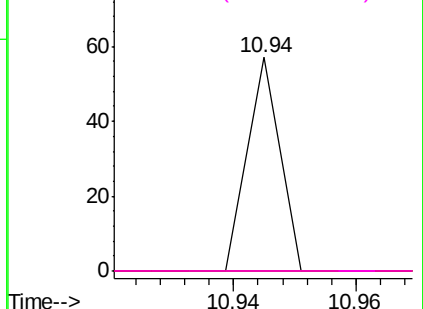


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.903 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005959.D

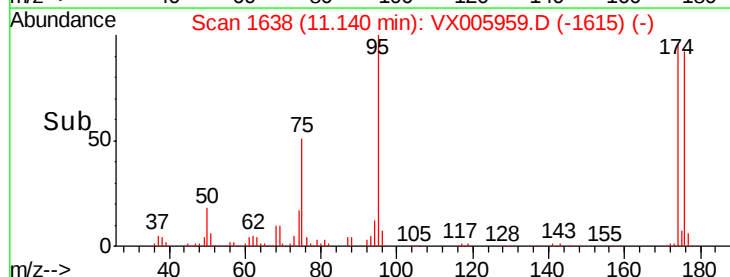
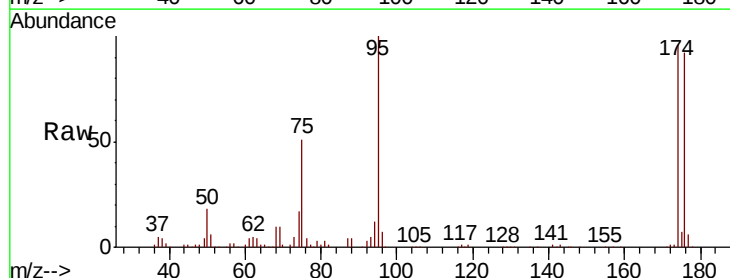
Acq: 13 Nov 2018 19:54

Tgt Ion: 75 Resp: 27673

Ion Ratio Lower Upper

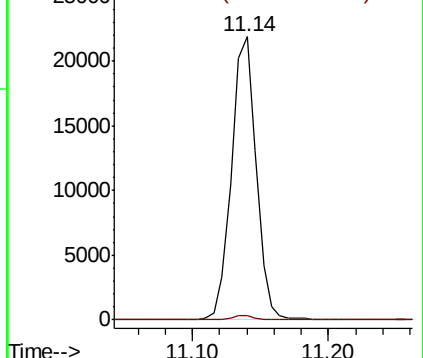
75 100

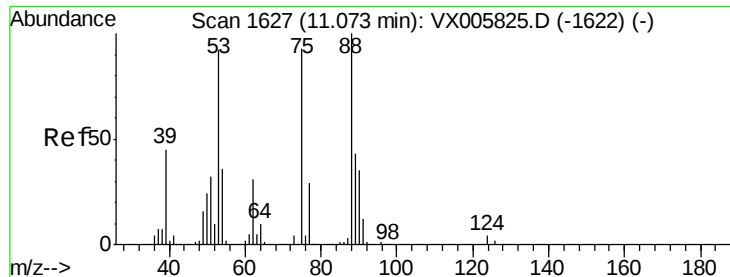
77 1.3 20.5 61.6#



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: 72.997 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005959.D

Acq: 13 Nov 2018 19:54

Instrument :

MSVOA_X

ClientSampleId :

KY038PS035-181112

Tot Ion: 75 Resp: 27673

Ion Ratio Lower Upper

75 100

53 0.1 80.2 120.2#

89 0.0 39.8 59.8#

