

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005235.D
 Acq On : 11 Oct 2018 05:51
 Operator : JC/MD
 Sample : J5284-08DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-120D2-20181002DL

Quant Time: Oct 11 08:09:19 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

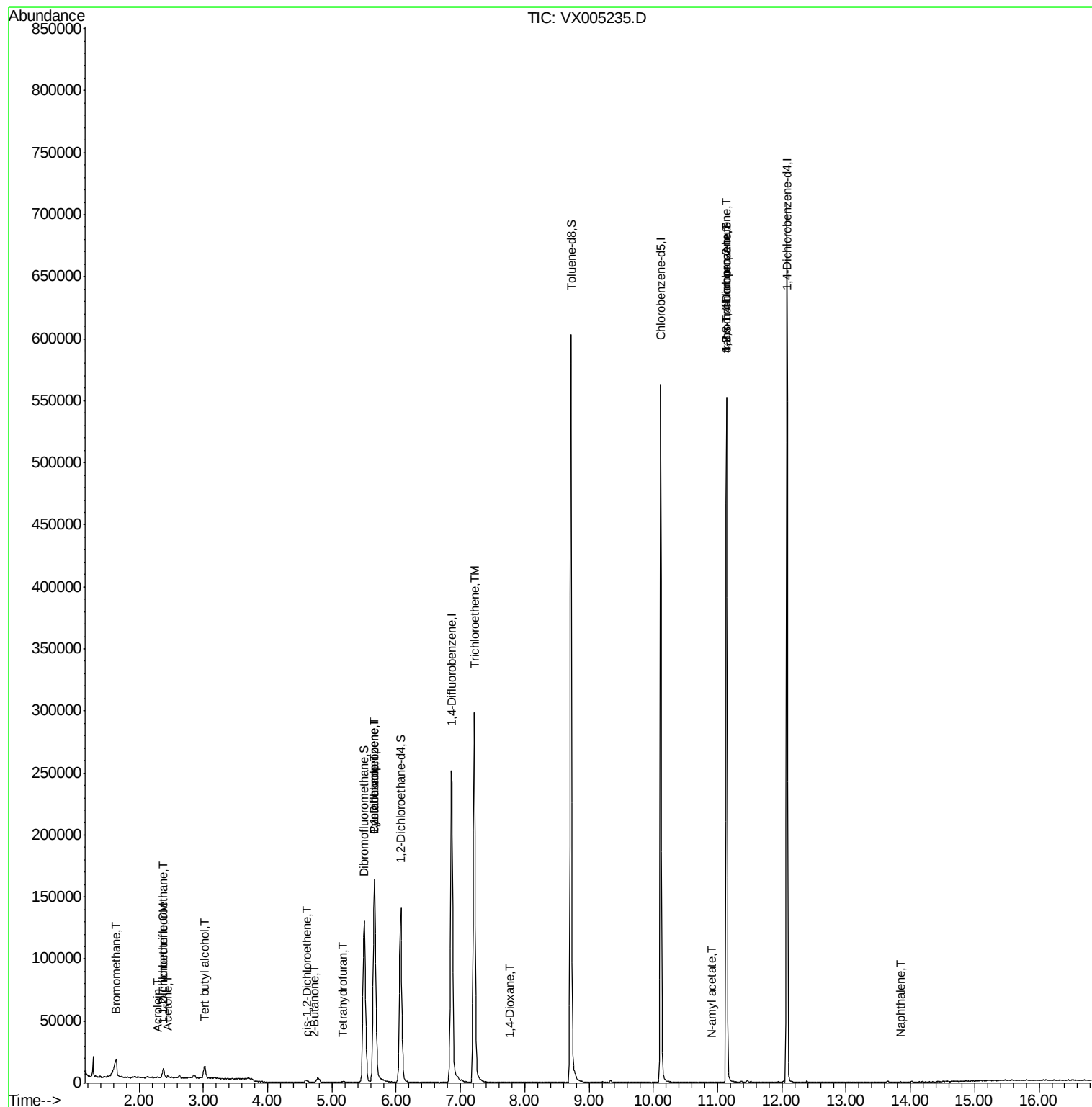
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	169595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	259967	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	264144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	148496	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	131201	54.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.32%	
35) Dibromofluoromethane	5.50	113	111494	50.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.20%	
50) Toluene-d8	8.72	98	383320	52.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.66%	
62) 4-Bromofluorobenzene	11.14	95	136551	51.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.50%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	810	0.519	ug/l #	75
6) Chloroethane	1.73	64	92	Below Cal	#	45
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2372	1.278	ug/l	97
11) Tert butyl alcohol	3.02	59	6482	9.569	ug/l #	78
12) 1,1-Dichloroethene	2.37	96	1040	0.566	ug/l	89
13) Acrolein	2.28	56	156	0.324	ug/l #	68
16) Acetone	2.45	43	1351	0.955	ug/l #	77
20) Methylene Chloride	2.85	84	1201	Below Cal		90
25) 2-Butanone	4.71	43	483	0.232	ug/l #	82
27) cis-1,2-Dichloroethene	4.60	96	781	0.348	ug/l	26
29) Tetrahydrofuran	5.17	42	652	0.503	ug/l #	70
31) Cyclohexane	5.66	56	3136	1.017	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	11711	3.896	ug/l #	46
44) Trichloroethene	7.21	130	121366	52.459	ug/l	99
49) 1,4-Dioxane	7.77	88	133	2.048	ug/l #	1
74) N-amyl acetate	10.90	43	19	1.751	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	68562	20.599	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.52	105	180	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	68562	55.937	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	227	Below Cal		95
95) Naphthalene	13.84	128	329	0.746	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

Instrument :

MSVOA_X

ClientSampleId :

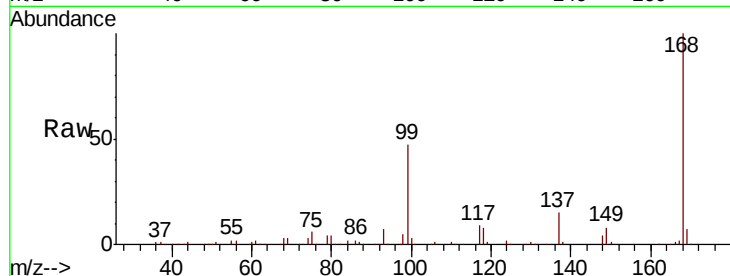
RE-120D2-20181002DL

Tot Ion:168 Resp: 169595

Ion Ratio Lower Upper

168 100

99 47.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

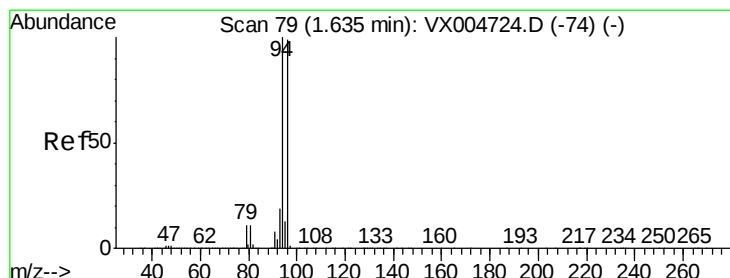
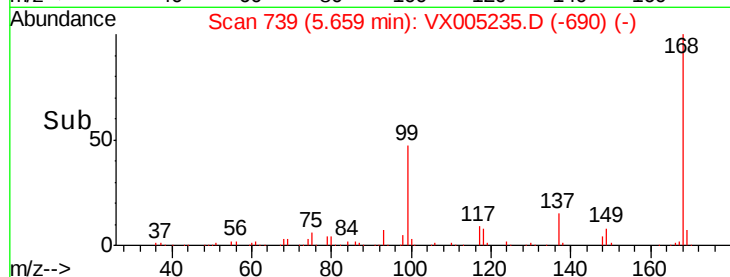
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.519 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005235.D

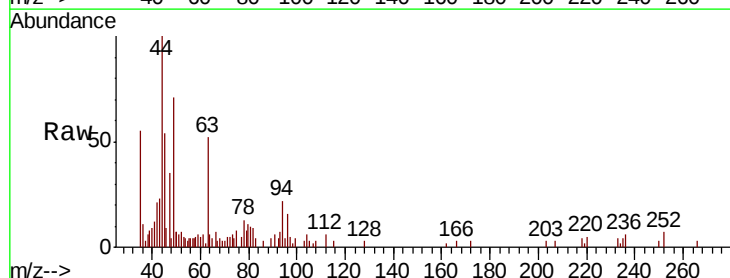
Acq: 11 Oct 2018 05:51

Tgt Ion: 94 Resp: 810

Ion Ratio Lower Upper

94 100

96 74.1 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

600

500

400

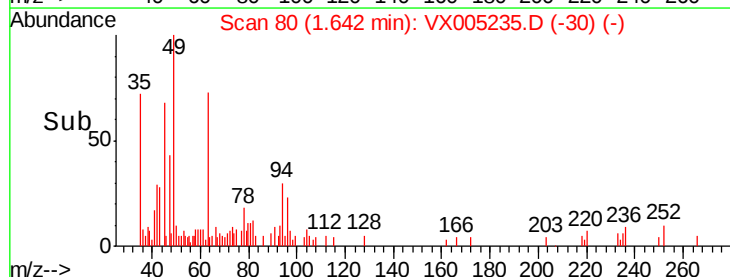
300

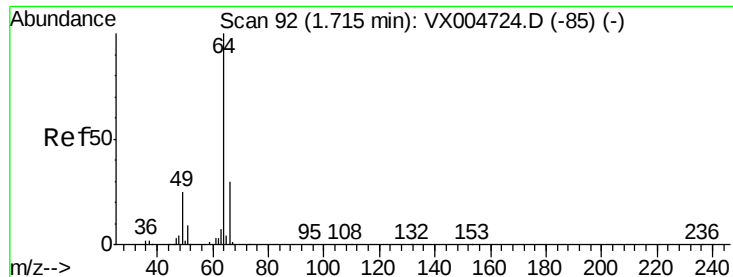
200

100

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

Instrument :

MSVOA_X

ClientSampleId :

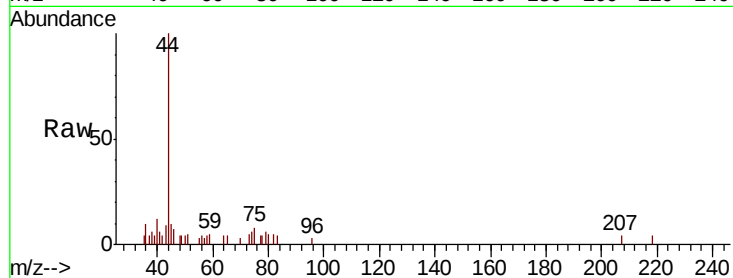
RE-120D2-20181002DL

Tot Ion: 64 Resp: 92

Ion Ratio Lower Upper

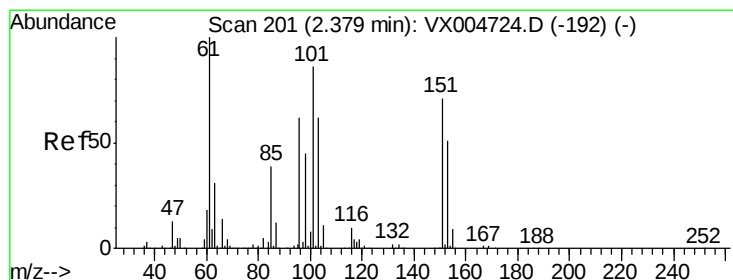
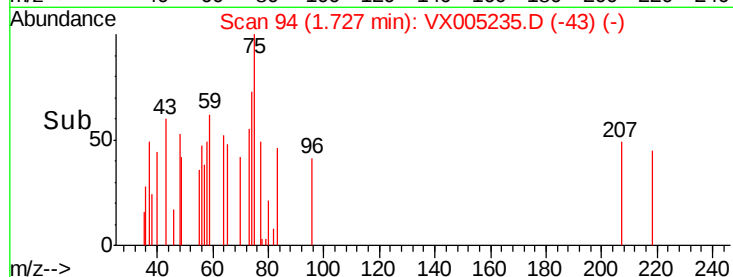
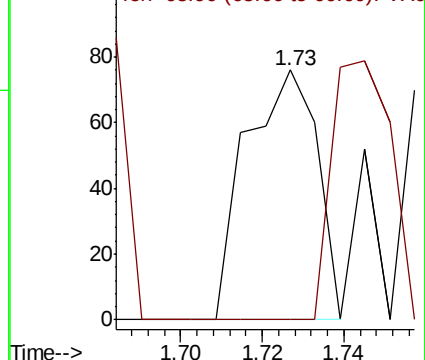
64 100

66 0.0 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: 1.278 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

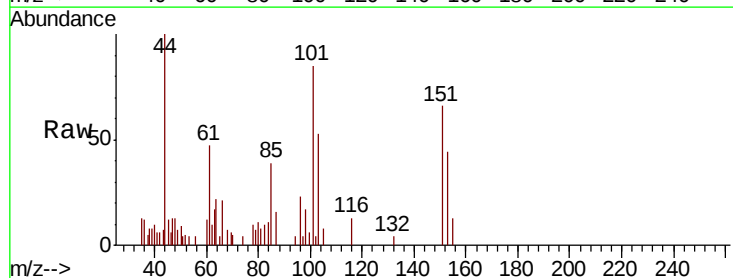
Tgt Ion:101 Resp: 2372

Ion Ratio Lower Upper

101 100

85 46.8 35.9 53.9

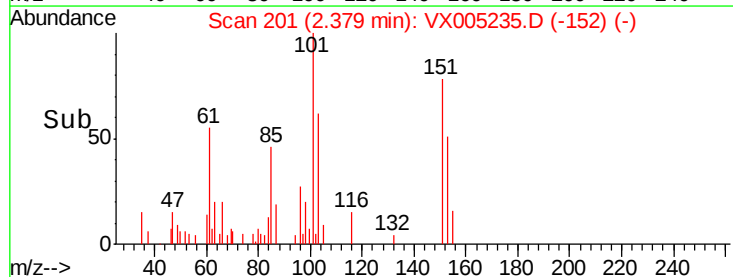
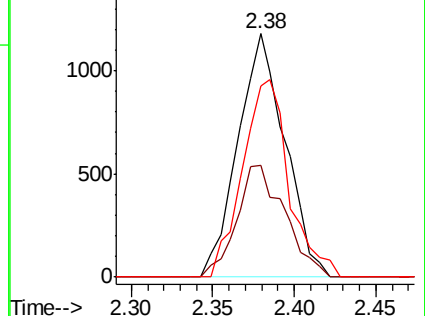
151 79.9 66.6 100.0

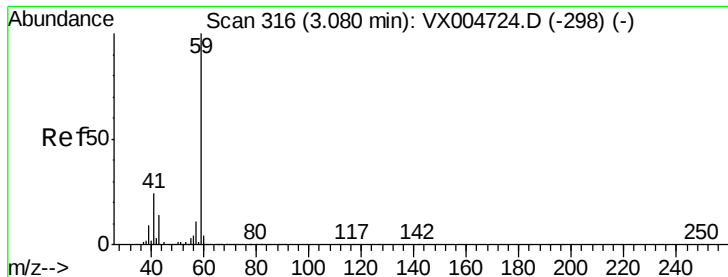


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



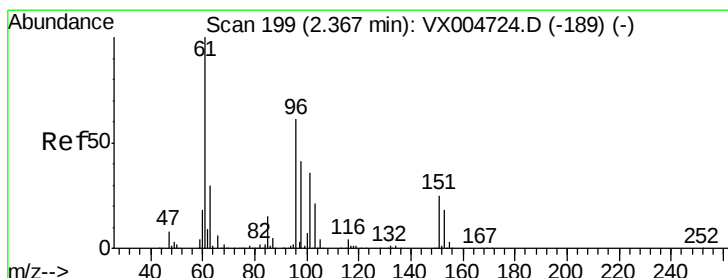
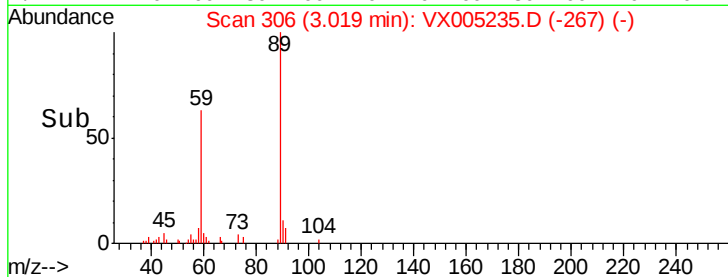
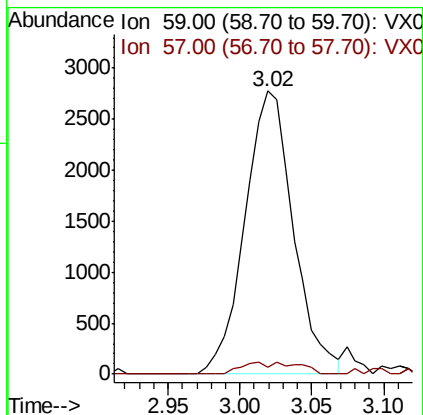
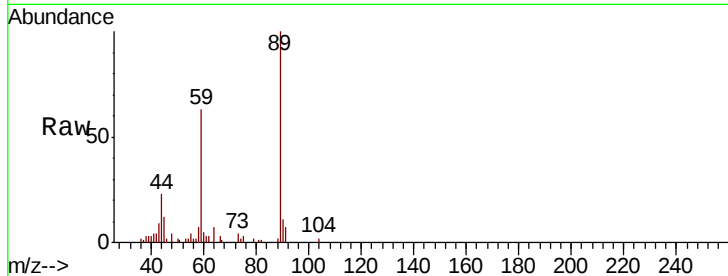


#11

Tert butyl alcohol
 Concen: 9.569 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005235.D
 Acq: 11 Oct 2018 05:51

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-120D2-20181002DL

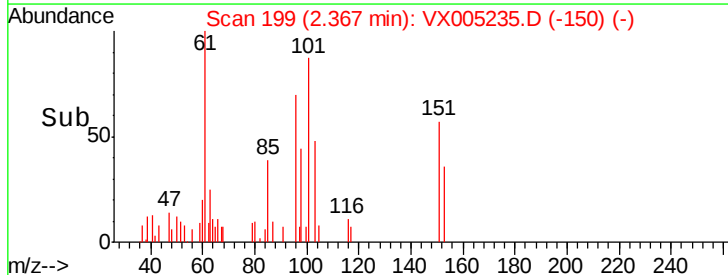
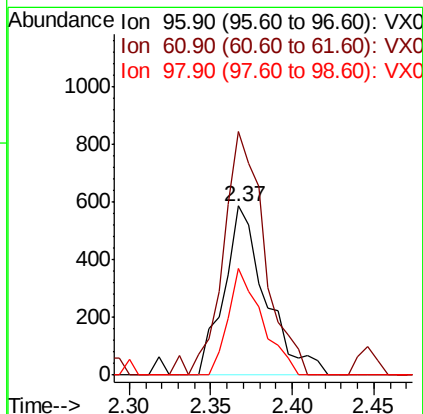
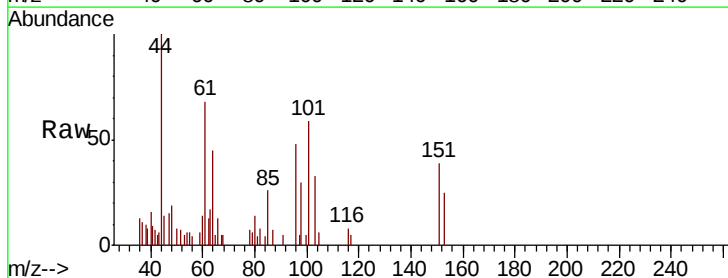
Tot Ion: 59 Resp: 6482
 Ion Ratio Lower Upper
 59 100
 57 2.3 8.6 12.8#

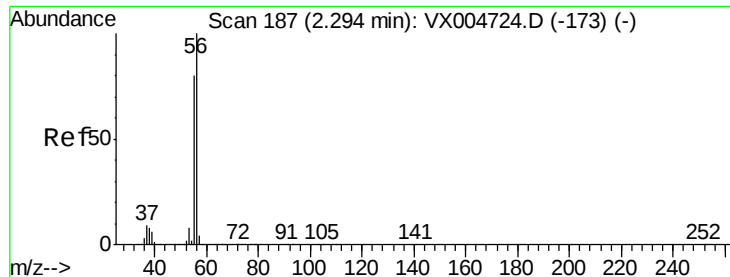


#12

1,1-Dichloroethene
 Concen: 0.566 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.00 min
 Lab File: VX005235.D
 Acq: 11 Oct 2018 05:51

Tgt Ion: 96 Resp: 1040
 Ion Ratio Lower Upper
 96 100
 61 143.8 130.2 195.4
 98 63.4 53.4 80.0





#13

Acrolein

Concen: 0.324 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

Instrument :

MSVOA_X

ClientSampleId :

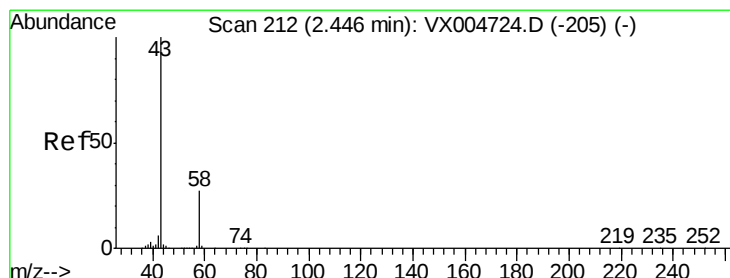
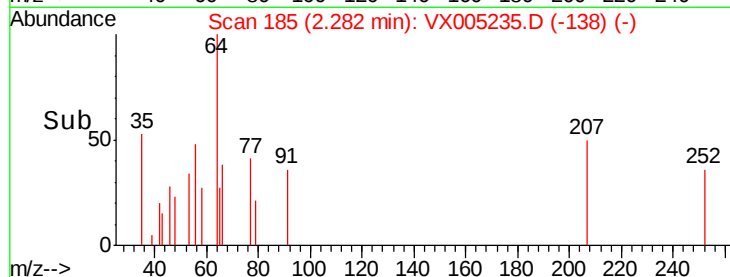
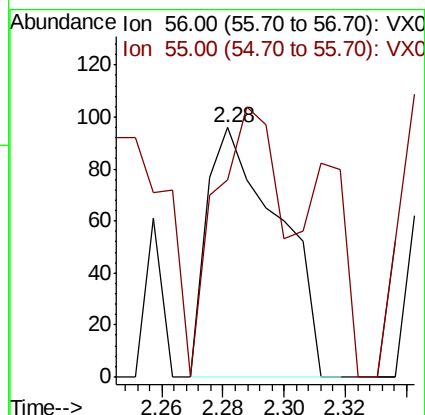
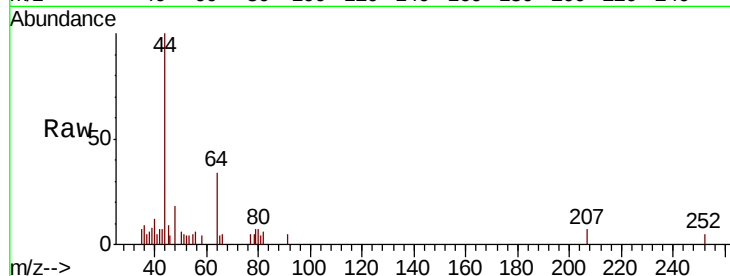
RE-120D2-20181002DL

Tot Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

55 107.1 63.4 95.2#



#16

Acetone

Concen: 0.955 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005235.D

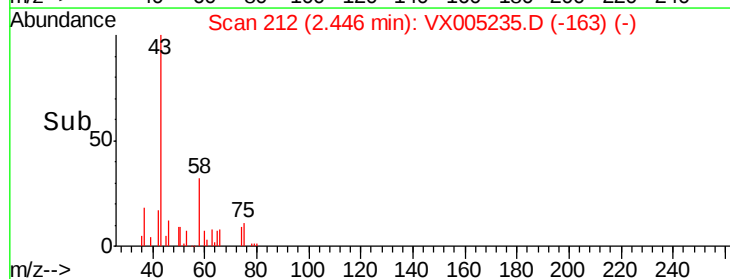
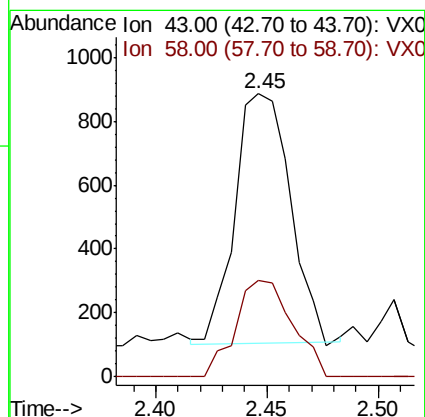
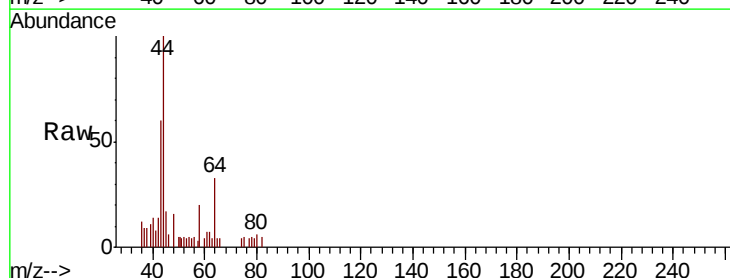
Acq: 11 Oct 2018 05:51

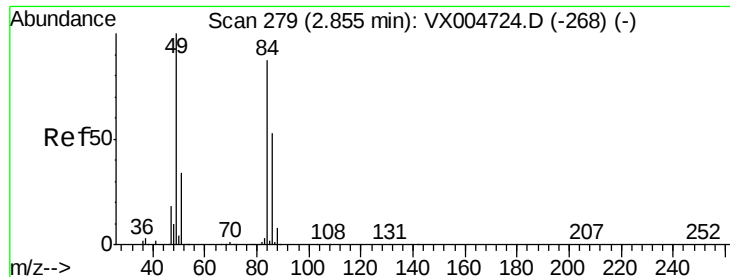
Tgt Ion: 43 Resp: 1351

Ion Ratio Lower Upper

43 100

58 39.0 21.8 32.6#

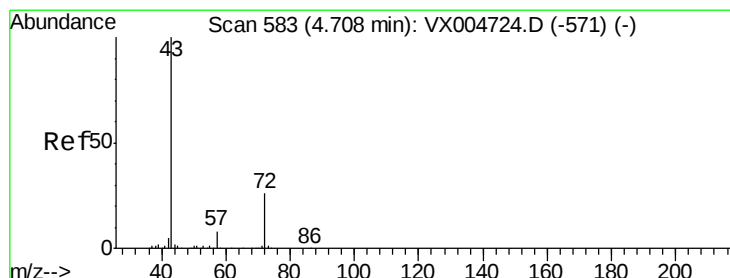
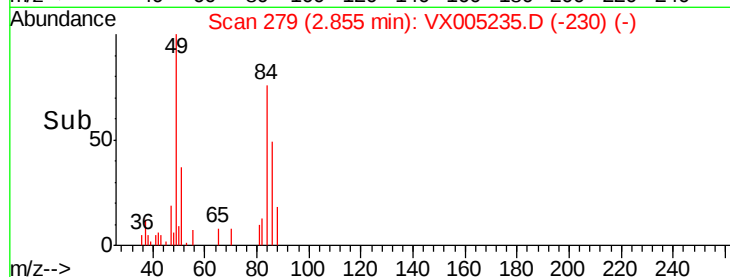
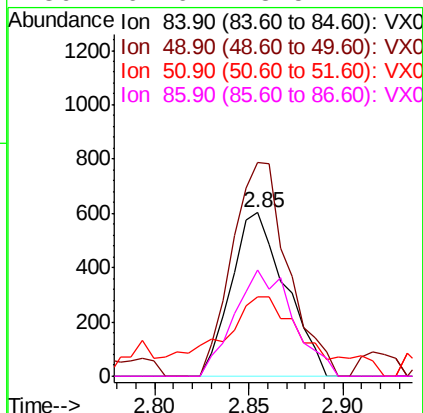
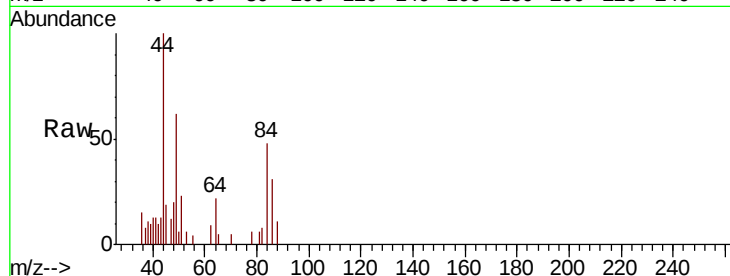




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

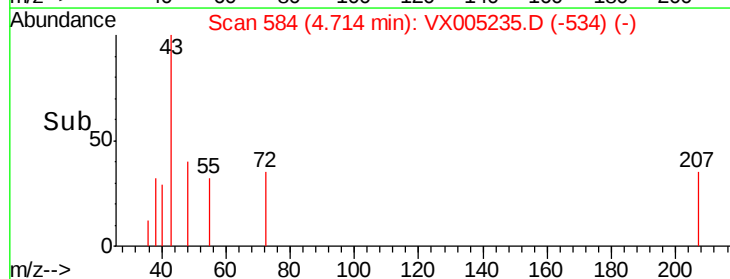
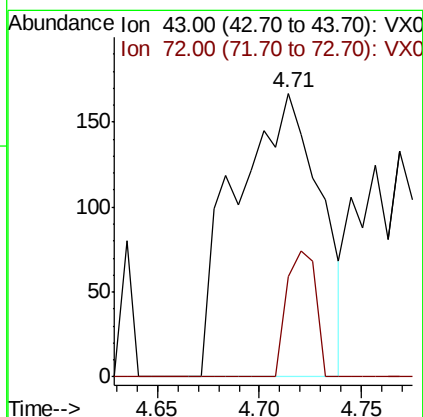
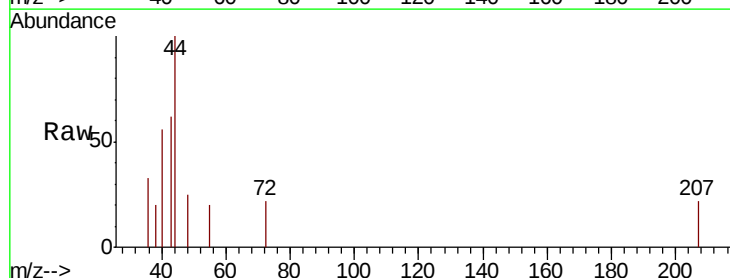
Instrument :
MSVOA_X
ClientSampleId :
RE-120D2-20181002DL

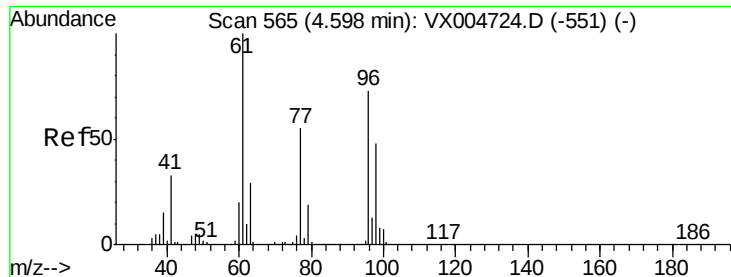
Tot Ion:	84	Resp:	1201
Ion	Ratio	Lower	Upper
84	100		
49	130.7	92.3	138.5
51	37.0	31.8	47.6
86	64.6	48.5	72.7



#25
2-Butanone
Concen: 0.232 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

Tgt Ion:	43	Resp:	483
Ion	Ratio	Lower	Upper
43	100		
72	35.3	20.8	31.2#



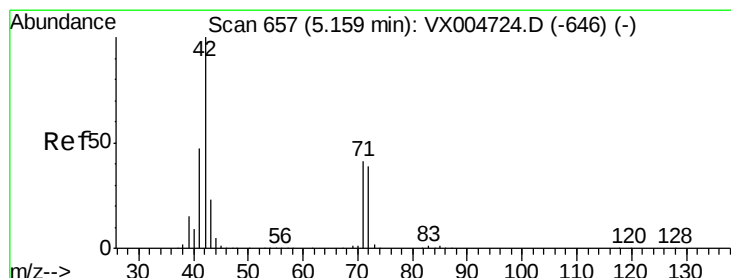
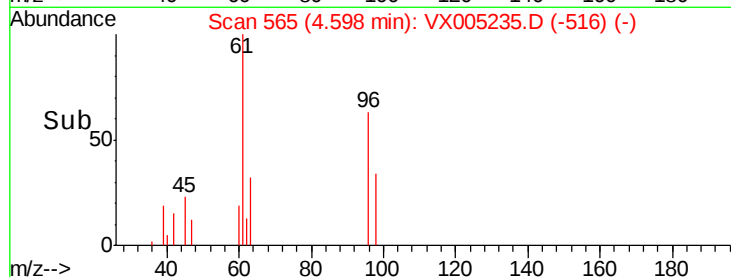
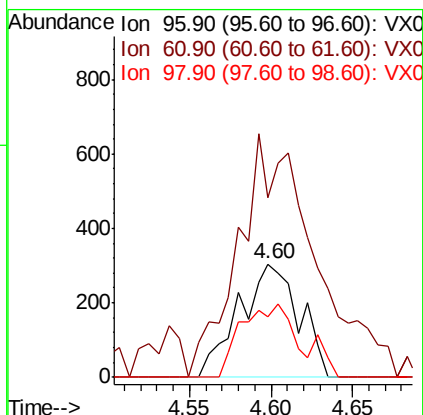
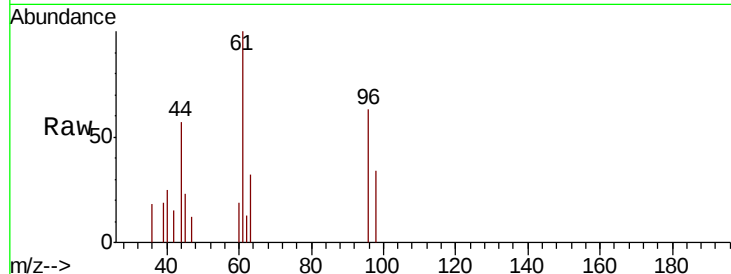


#27

cis-1,2-Dichloroethene
 Concen: 0.348 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX005235.D
 Acq: 11 Oct 2018 05:51

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-120D2-20181002DL

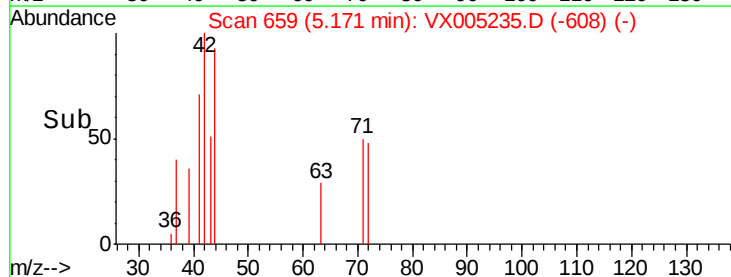
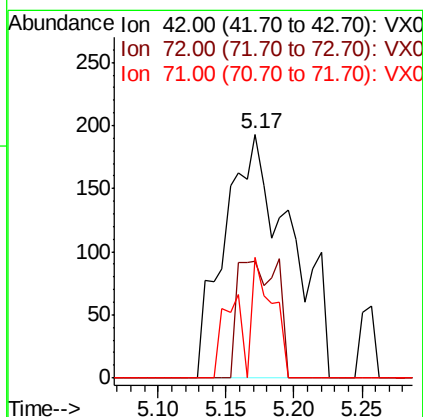
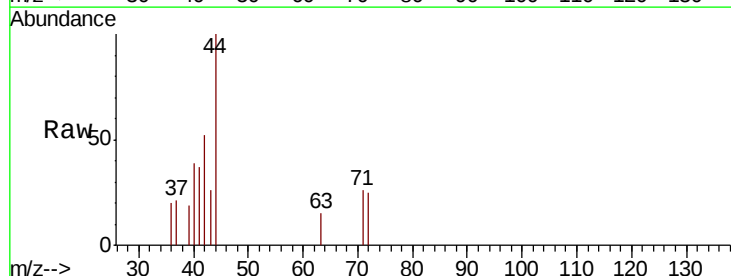
Tot Ion: 96 Resp: 781
 Ion Ratio Lower Upper
 96 100
 61 275.2 0.0 285.8
 98 63.5 0.0 136.2

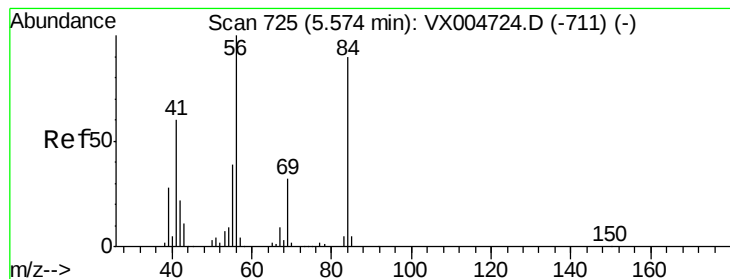


#29

Tetrahydrofuran
 Concen: 0.503 ug/l
 RT: 5.17 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX005235.D
 Acq: 11 Oct 2018 05:51

Tgt Ion: 42 Resp: 652
 Ion Ratio Lower Upper
 42 100
 72 29.1 33.7 50.5#
 71 15.6 32.2 48.4#





#31

Cvclohexane

Concen: 1.017 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

Instrument :

MSVOA_X

ClientSampleId :

RE-120D2-20181002DL

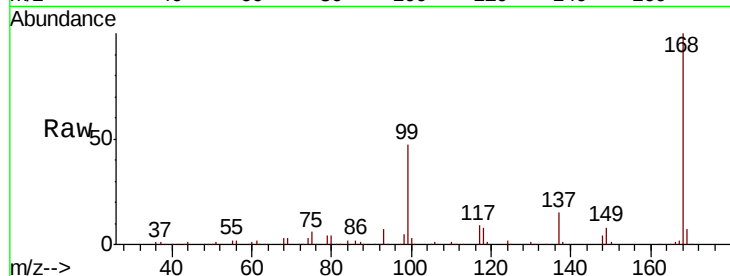
Tot Ion: 56 Resp: 3136

Ion Ratio Lower Upper

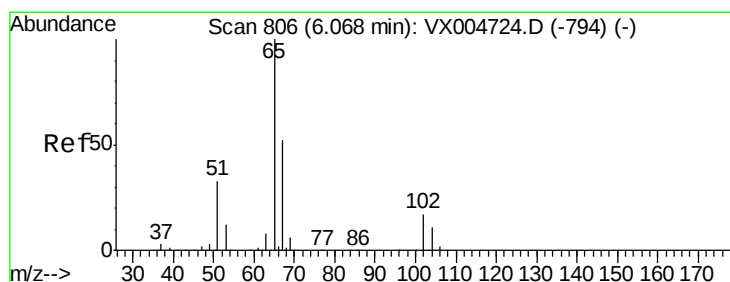
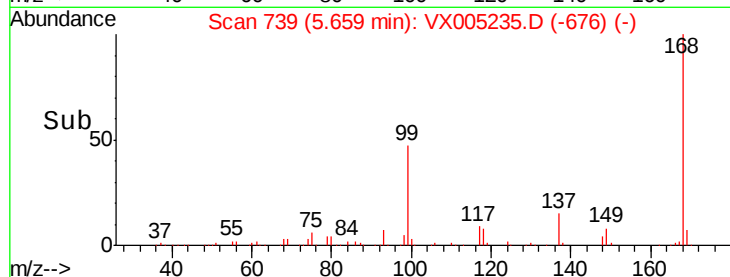
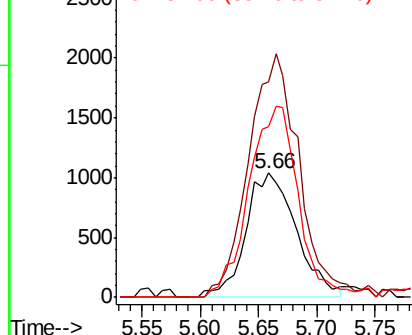
56 100

69 173.5 25.9 38.9#

84 137.8 71.9 107.9#



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: 54.156 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005235.D

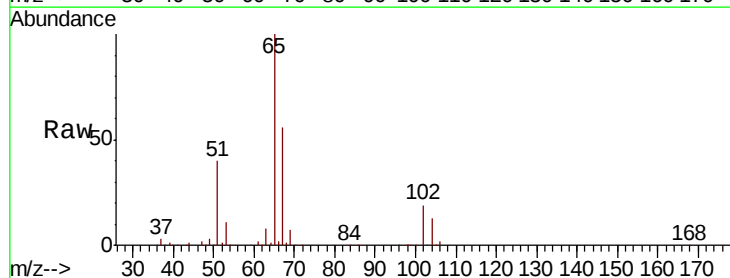
Acq: 11 Oct 2018 05:51

Tgt Ion: 65 Resp: 131201

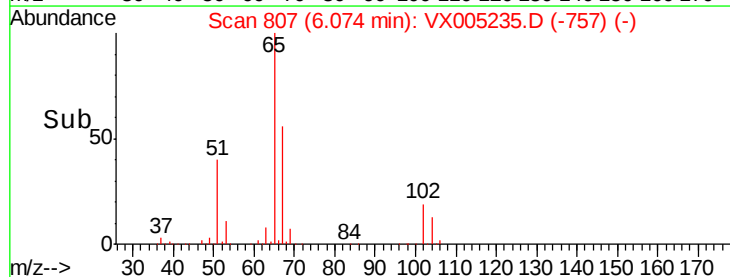
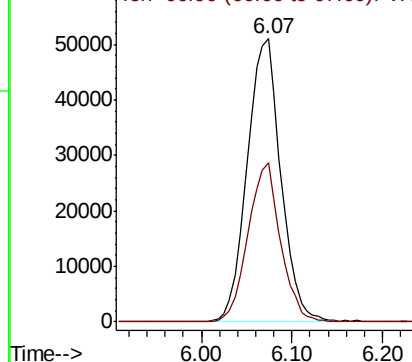
Ion Ratio Lower Upper

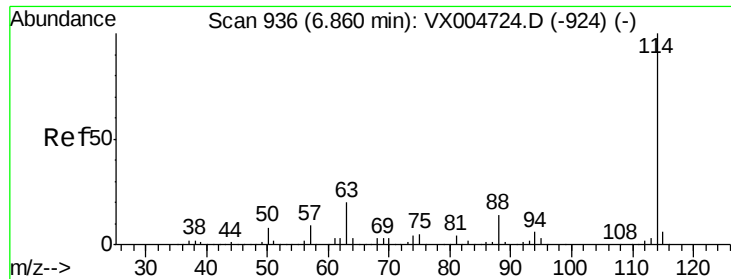
65 100

67 54.2 0.0 107.4



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

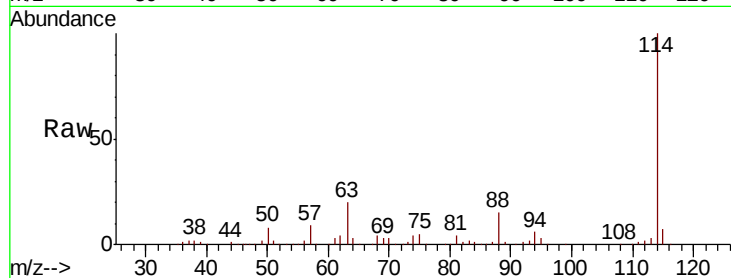




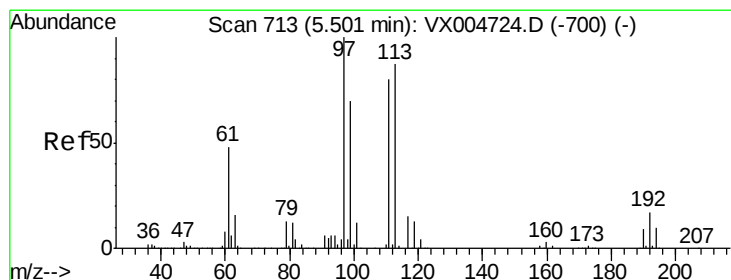
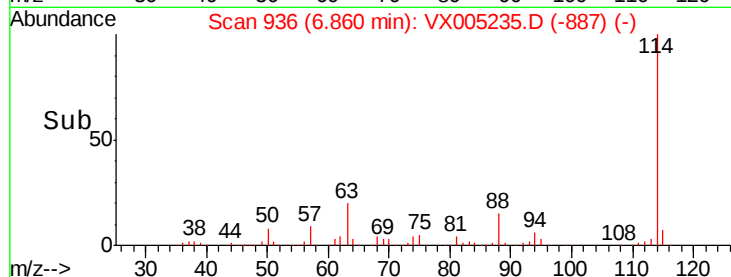
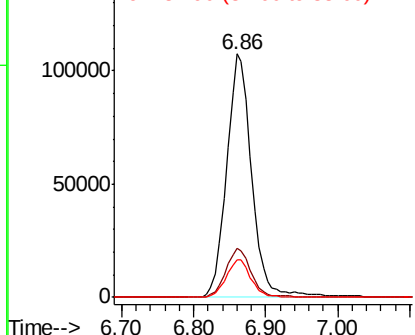
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005235.D
 Acq: 11 Oct 2018 05:51

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-120D2-20181002DL

Tot Ion:114 Resp: 259967
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.8
 88 15.4 0.0 27.0

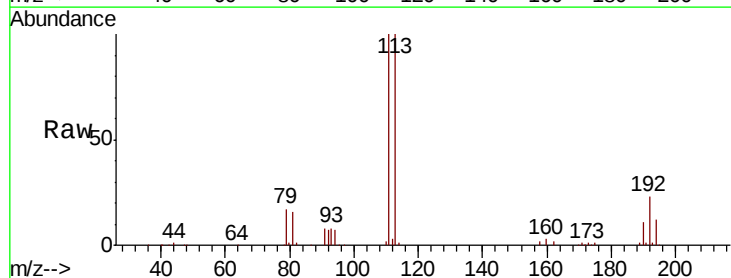


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

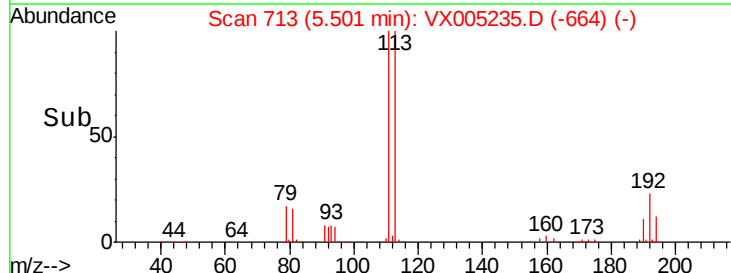
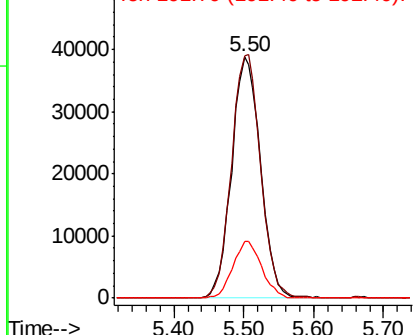


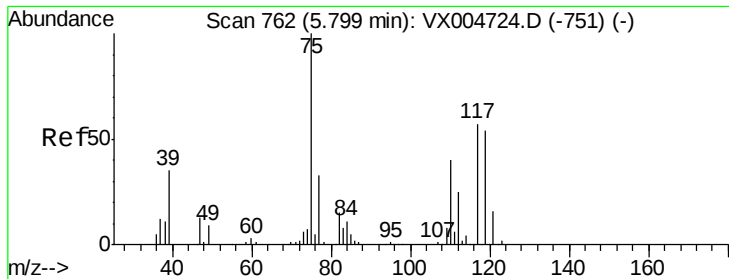
#35
 Dibromofluoromethane
 Concen: 50.604 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005235.D
 Acq: 11 Oct 2018 05:51

Tgt Ion:113 Resp: 111494
 Ion Ratio Lower Upper
 113 100
 111 101.6 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: 3.896 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

Instrument :

MSVOA_X

ClientSampleId :

RE-120D2-20181002DL

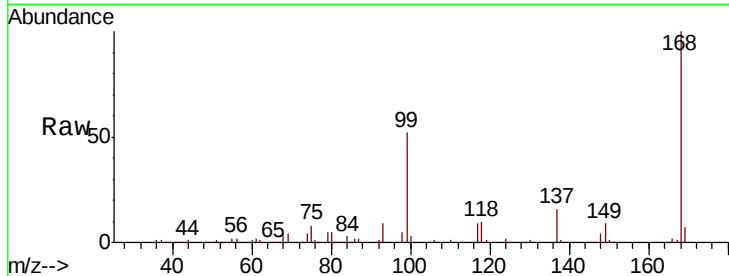
Tot Ion: 75 Resp: 11711

Ion Ratio Lower Upper

75 100

110 9.4 20.0 59.9#

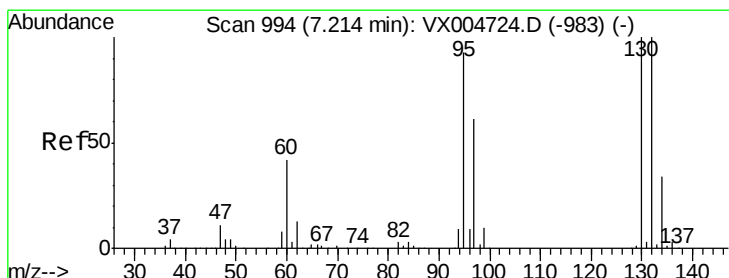
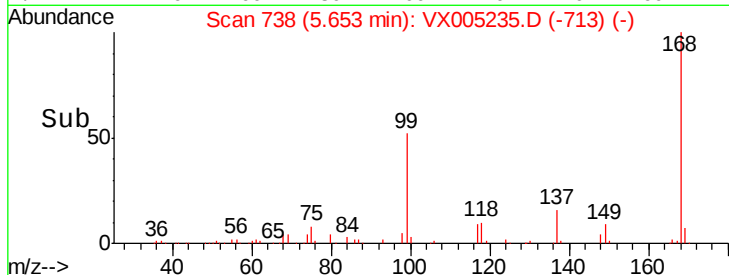
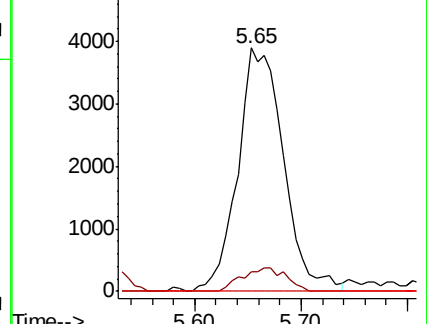
77 0.0 27.1 40.7#



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



#44

Trichloroethene

Concen: 52.459 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005235.D

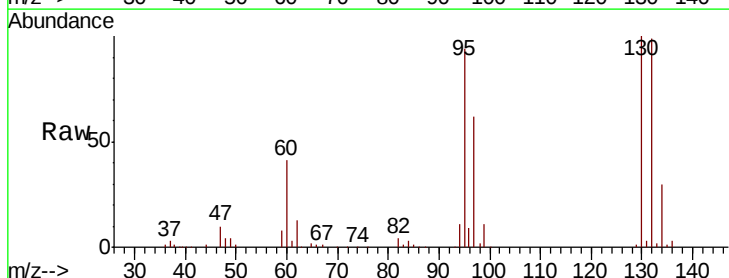
Acq: 11 Oct 2018 05:51

Tgt Ion:130 Resp: 121366

Ion Ratio Lower Upper

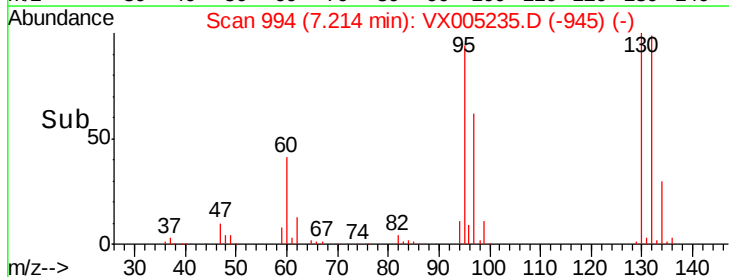
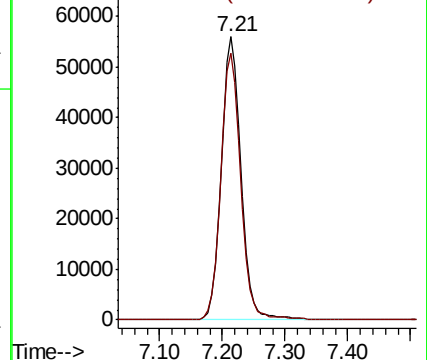
130 100

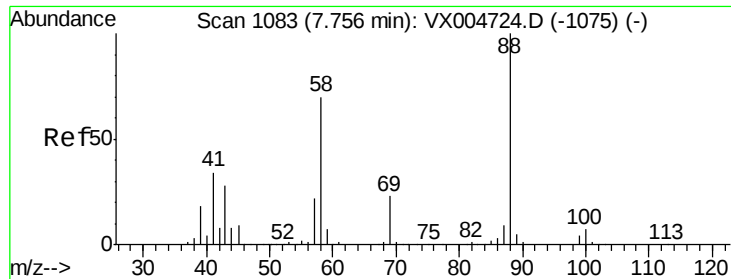
95 94.4 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

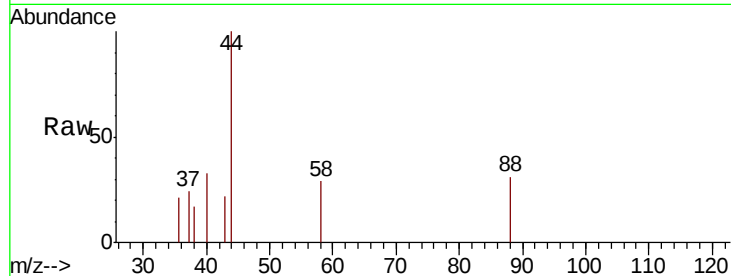




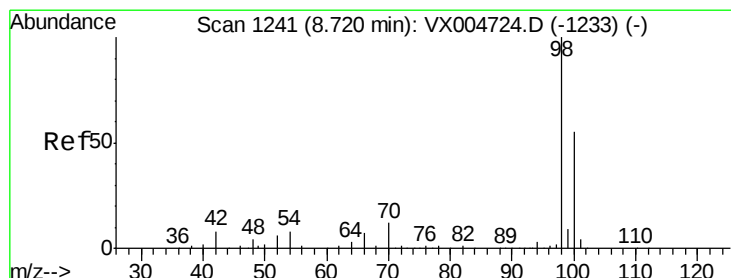
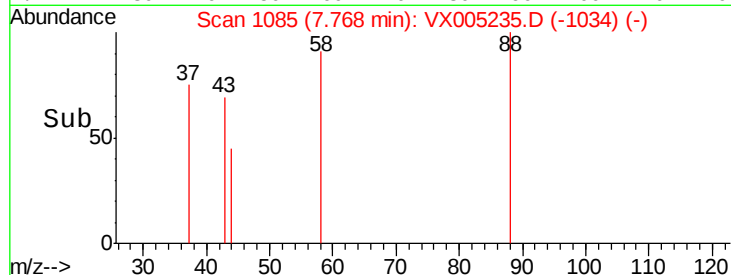
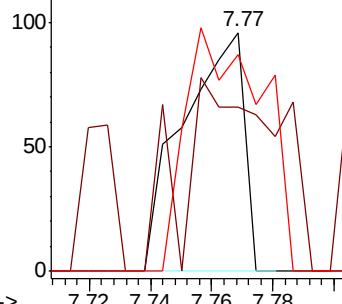
#49
1,4-Dioxane
Concen: 2.048 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.01 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

Instrument :
MSVOA_X
ClientSampleId :
RE-120D2-20181002DL

Tot Ion: 88 Resp: 133
Ion Ratio Lower Upper
88 100
43 127.1 25.1 37.7#
58 127.8 56.2 84.2#

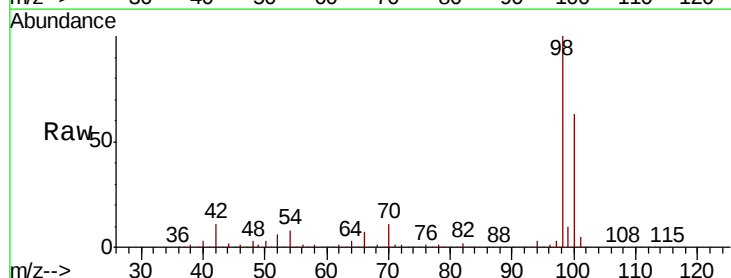


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

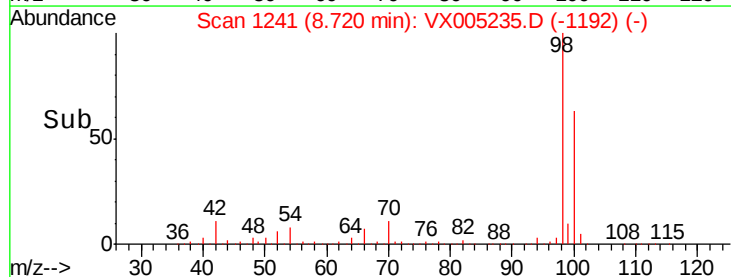
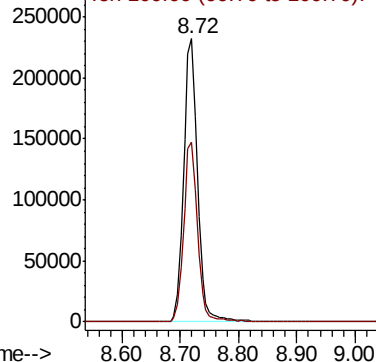


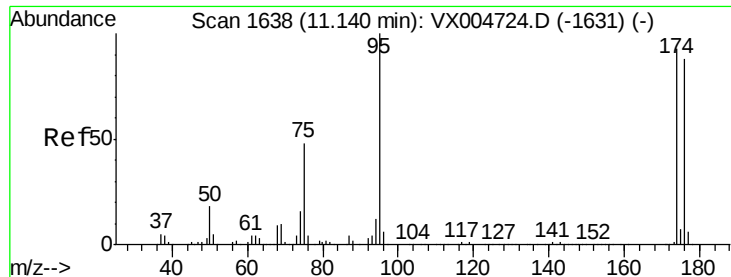
#50
Toluene-d8
Concen: 52.333 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

Tgt Ion: 98 Resp: 383320
Ion Ratio Lower Upper
98 100
100 63.7 51.9 77.9



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

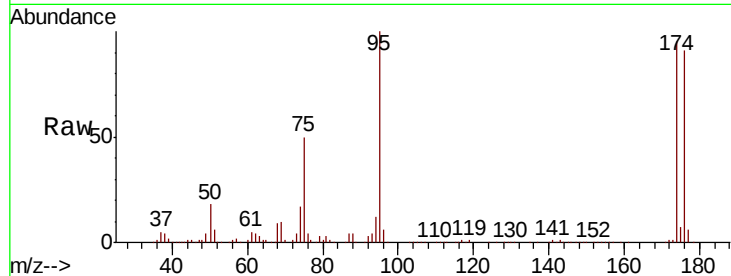




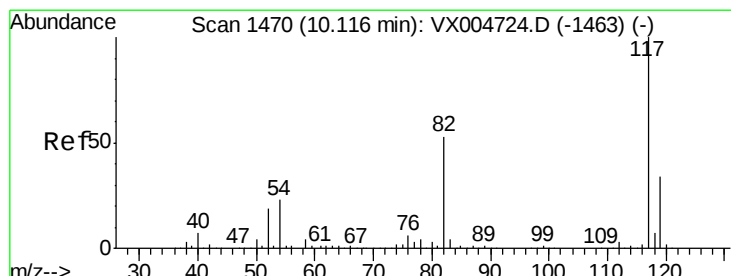
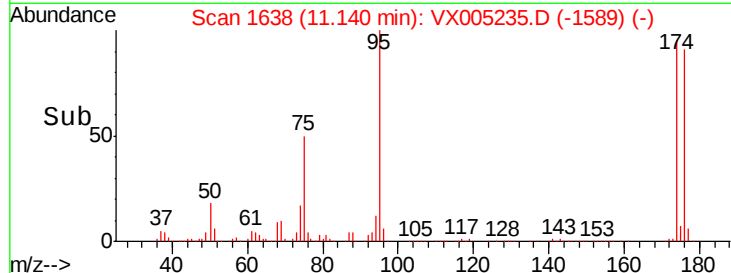
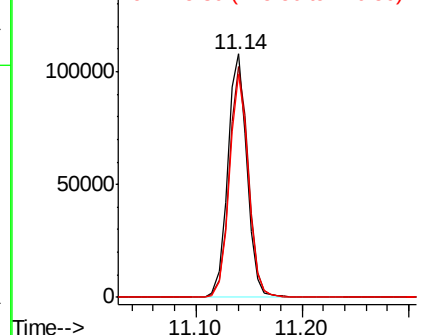
#62
4-Bromofluorobenzene
Concen: 51.748 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

Instrument :
MSVOA_X
ClientSampleId :
RE-120D2-20181002DL

Tot Ion	95	Resp	136551
Ion Ratio	Lower	Upper	
95	100		
174	95.6	0.0	185.0
176	91.1	0.0	180.2

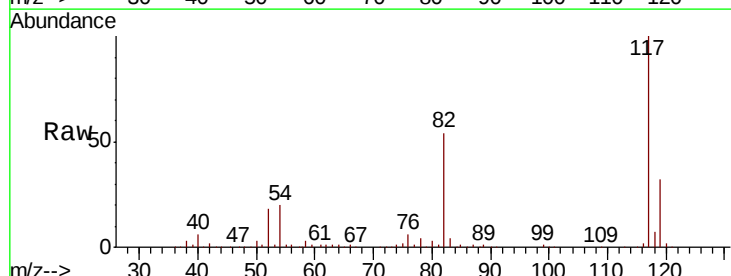


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

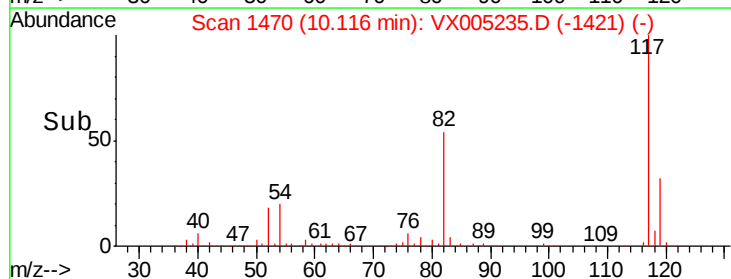
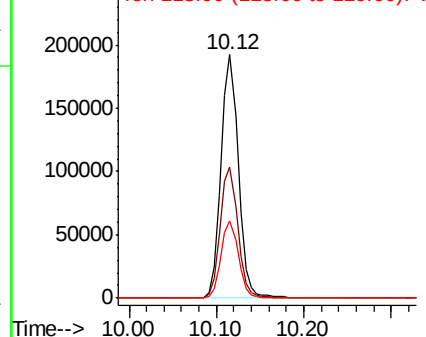


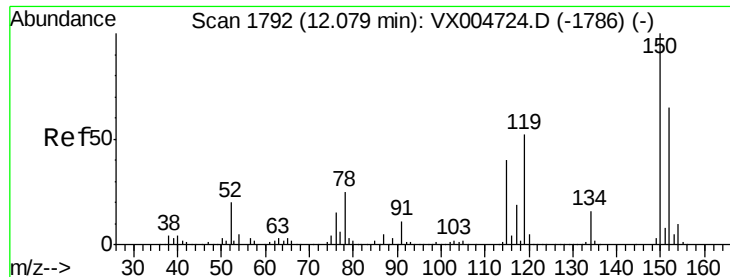
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

Tgt Ion	117	Resp	264144
Ion Ratio	Lower	Upper	
117	100		
82	53.8	42.2	63.4
119	31.9	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



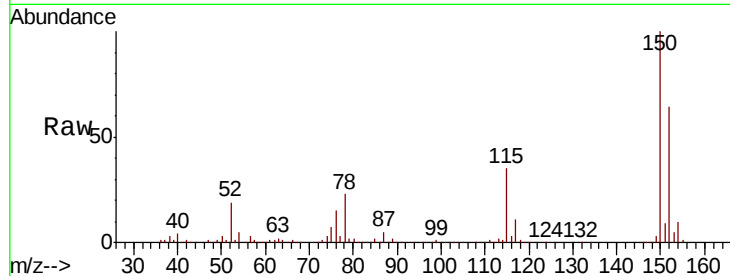


#72

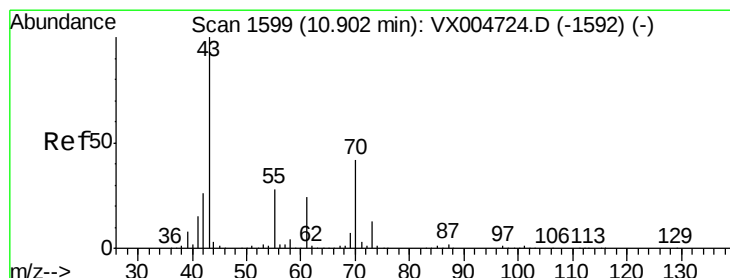
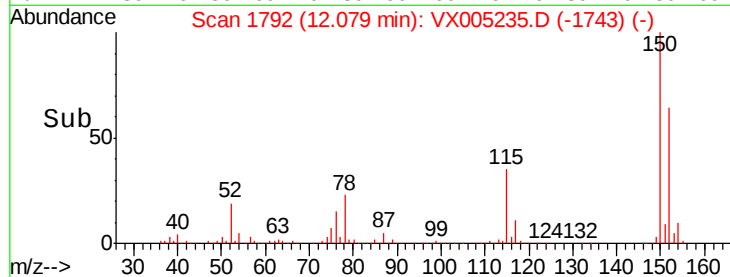
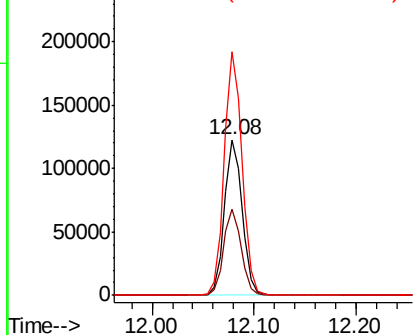
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

Instrument :
MSVOA_X
ClientSampleId :
RE-120D2-20181002DL

Tot Ion:152 Resp: 148496
Ion Ratio Lower Upper
152 100
115 55.1 40.2 120.6
150 157.3 0.0 351.0



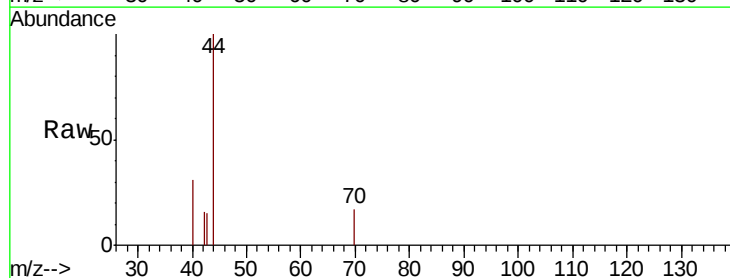
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



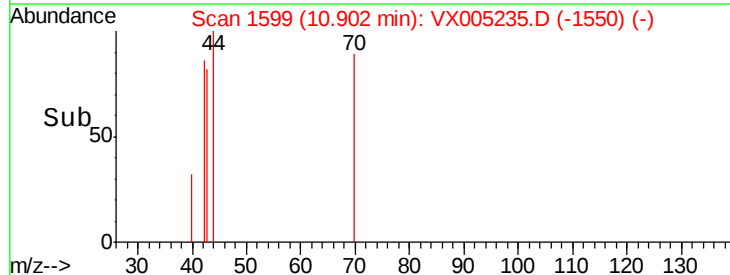
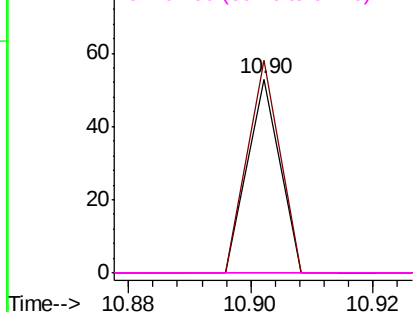
#74

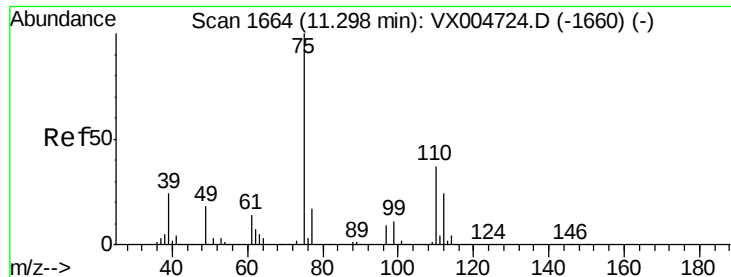
N-ethyl acetate
Concen: 1.751 ug/l
RT: 10.90 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VX005235.D
Acq: 11 Oct 2018 05:51

Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
70 0.0 32.6 48.8#
55 0.0 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





#76

1,2,3-Trichloropropane

Concen: 20.599 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

Instrument :

MSVOA_X

ClientSampleId :

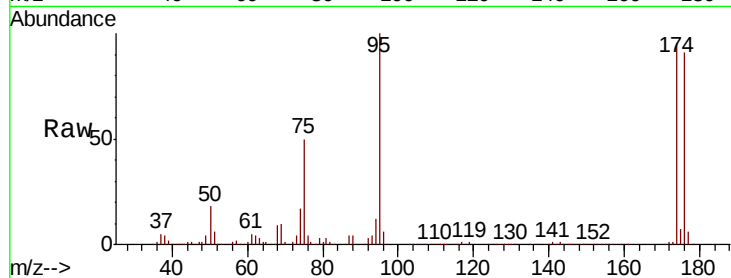
RE-120D2-20181002DL

Tot Ion: 75 Resp: 68562

Ion Ratio Lower Upper

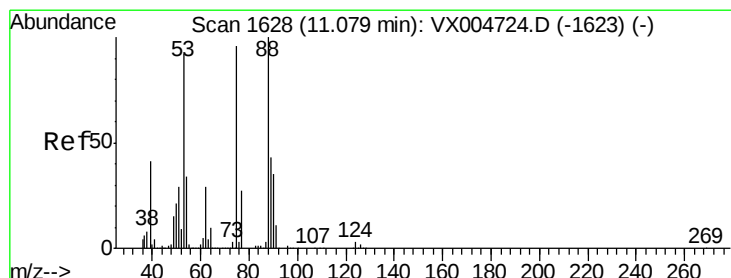
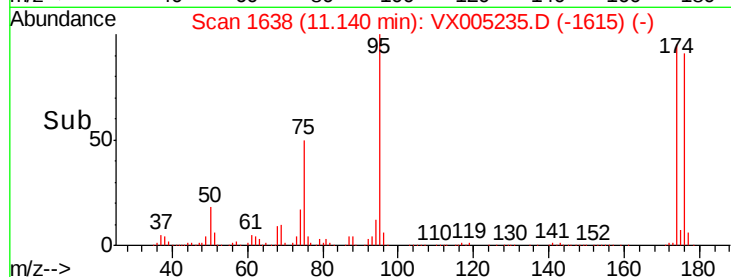
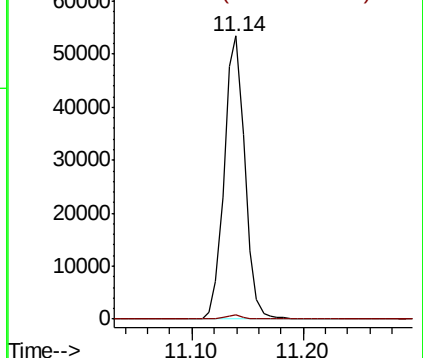
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 55.937 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005235.D

Acq: 11 Oct 2018 05:51

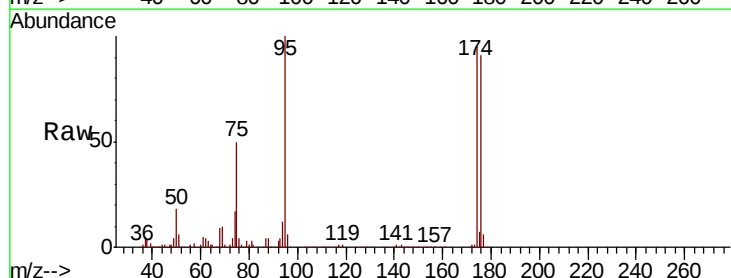
Tgt Ion: 75 Resp: 68562

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

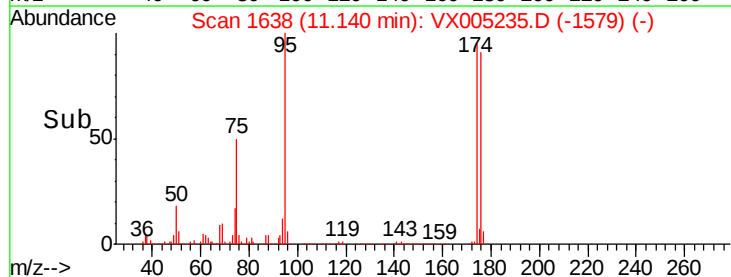
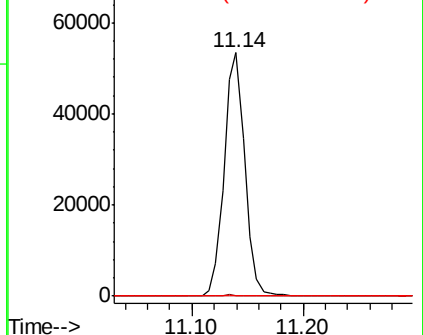
89 0.0 37.1 55.7#

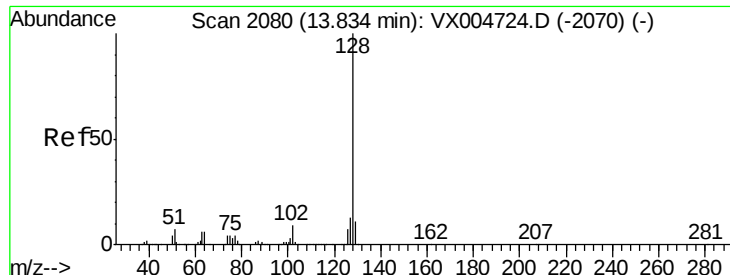


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.746 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX005235.D

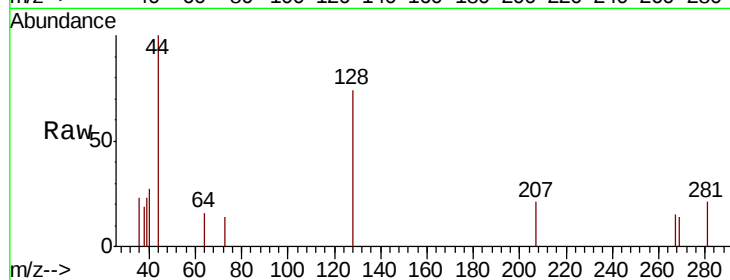
Acq: 11 Oct 2018 05:51

Instrument :

MSVOA_X

ClientSampleId :

RE-120D2-20181002DL



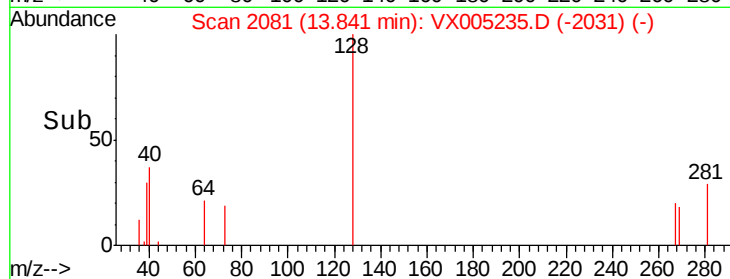
Tot Ion:128 Resp: 329

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

300 13.84

200

100

0

Time-->