

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011331.D
 Acq On : 05 Aug 2019 17:14
 Operator : JC/SP
 Sample : K4130-32
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:39:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	185105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	267745	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	108412	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	90549	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
35) Dibromofluoromethane	5.49	113	80878	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
50) Toluene-d8	8.71	98	324988	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
62) 4-Bromofluorobenzene	11.13	95	101899	43.25	ug/l	0.00
Spiked Amount			Recovery	=	86.50%	

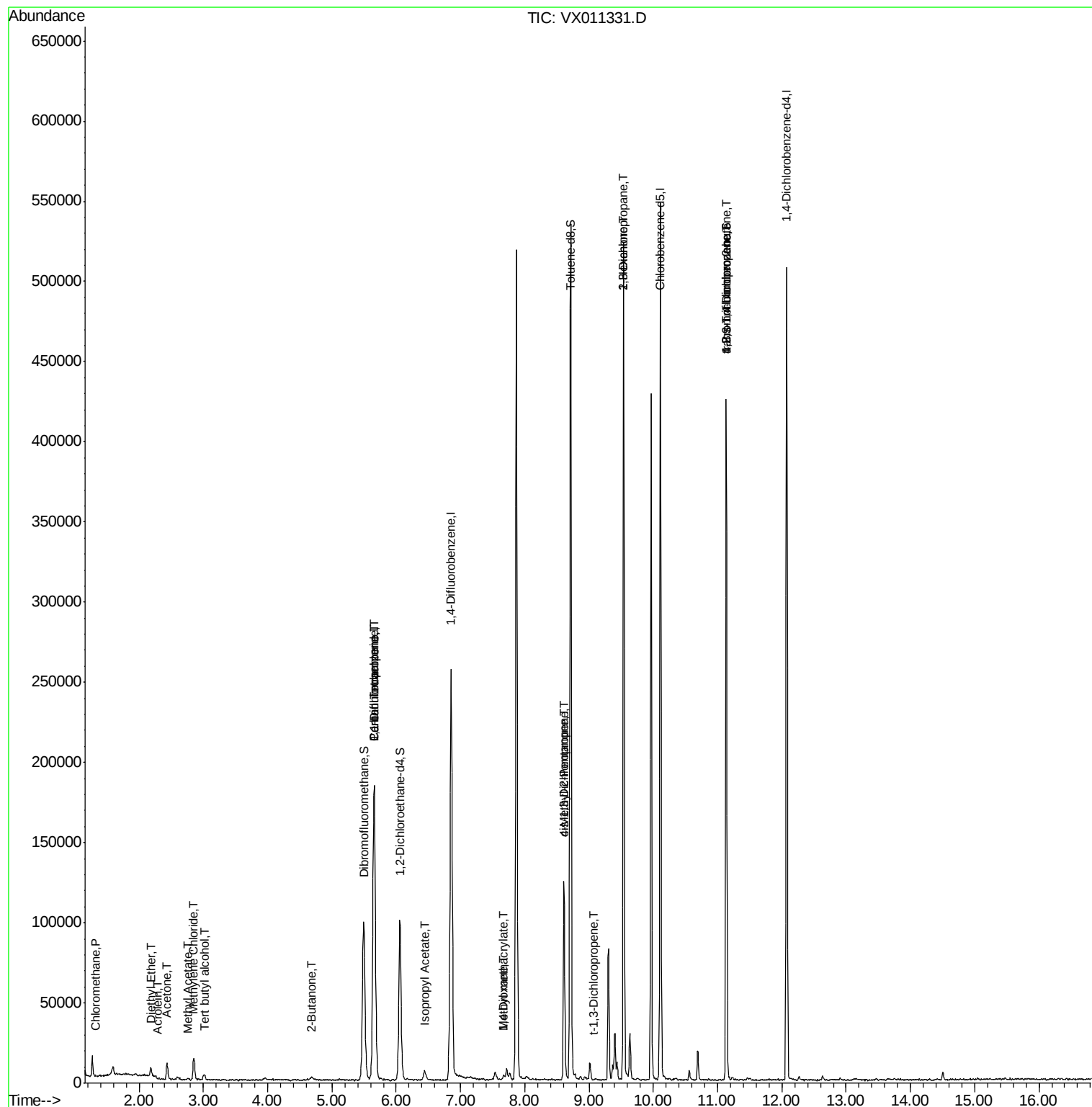
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	334	0.208	ug/l	93
6) Chloroethane	1.74	64	143	Below Cal	#	44
8) Diethyl Ether	2.18	74	2274	2.028	ug/l	92
11) Tert butyl alcohol	3.01	59	2121	5.728	ug/l #	89
13) Acrolein	2.29	56	201	0.448	ug/l #	15
16) Acetone	2.43	43	10432	11.757	ug/l	97
18) Methyl Acetate	2.77	43	1051	0.518	ug/l #	71
20) Methylene Chloride	2.85	84	7005	3.605	ug/l	97
25) 2-Butanone	4.69	43	1190	0.943	ug/l	99
36) 1,1-Dichloropropene	5.66	75	12414	5.310	ug/l #	49
38) Carbon Tetrachloride	5.65	117	16999	7.228	ug/l #	17
43) Isopropyl Acetate	6.44	43	7915	2.111	ug/l	97
48) Methyl methacrylate	7.68	41	3955	2.242	ug/l #	11
49) 1,4-Dioxane	7.67	88	52	1.017	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	39845	16.469	ug/l #	49
53) t-1,3-Dichloropropene	9.07	75	42	2.854	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20088	7.701	ug/l #	68
57) 1,3-Dichloropropane	9.54	76	4804	1.602	ug/l #	44
59) 2-Hexanone	9.54	43	56541	30.172	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	50393	25.524	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	50393	66.513	ug/l #	10

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

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QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

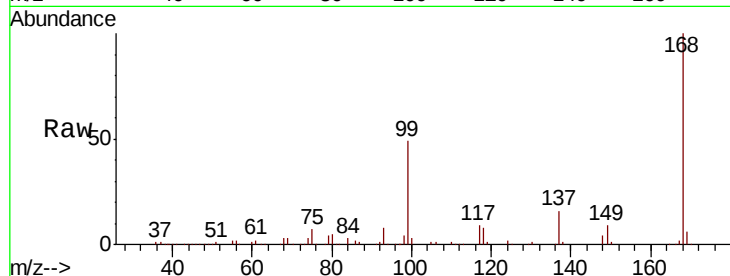
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 185105

Ion Ratio Lower Upper

168 100

99 49.3 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

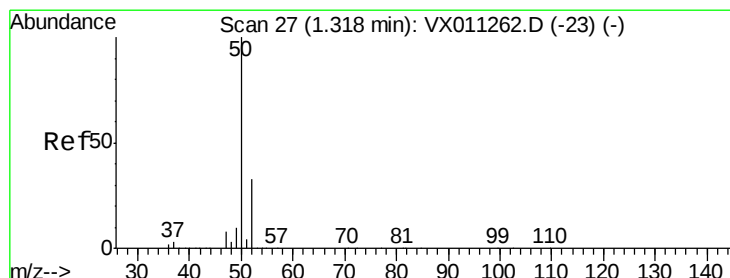
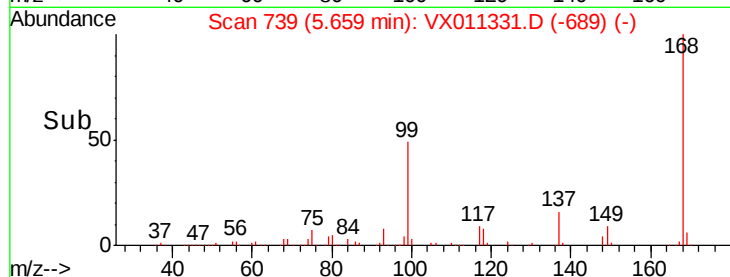
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.208 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX011331.D

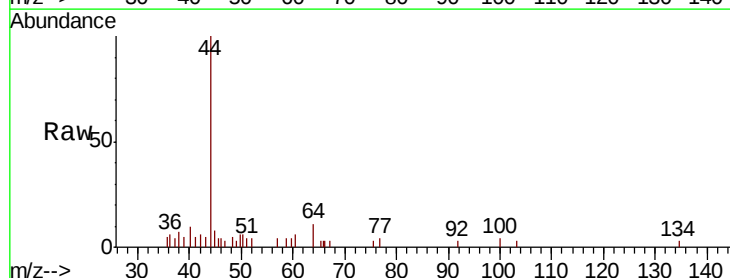
Acq: 05 Aug 2019 17:14

Tgt Ion: 50 Resp: 334

Ion Ratio Lower Upper

50 100

52 37.0 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

250

200

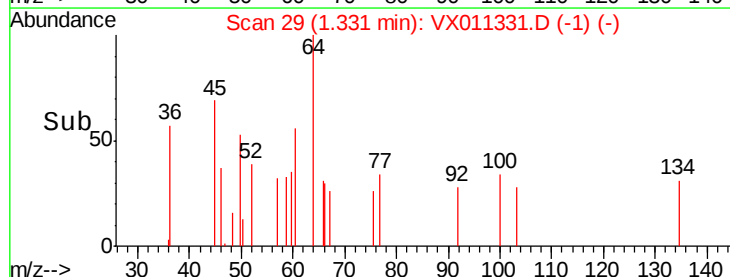
150

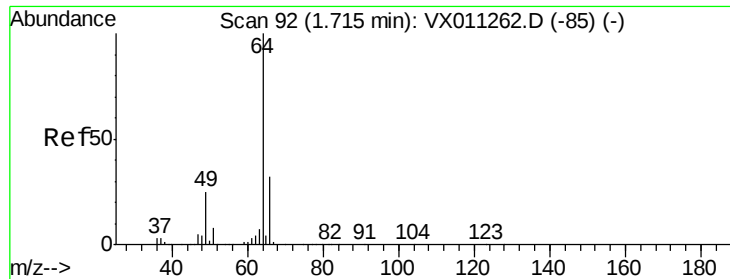
100

50

0

Time--> 1.30 1.32 1.34 1.36





#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.03 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

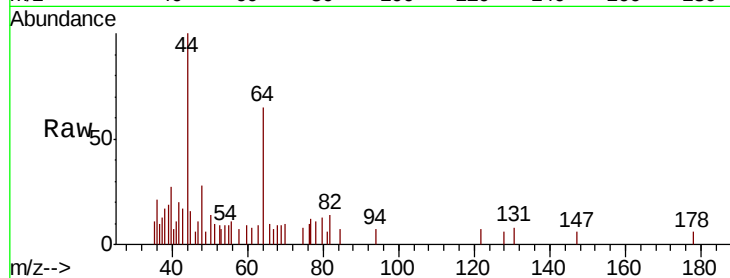
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 64 Resp: 143

Ion Ratio Lower Upper

64 100

66 0.5 25.1 37.7#

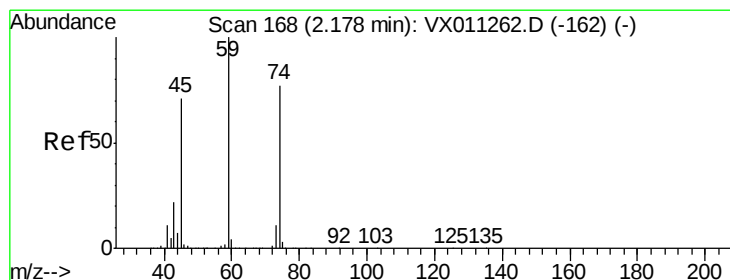
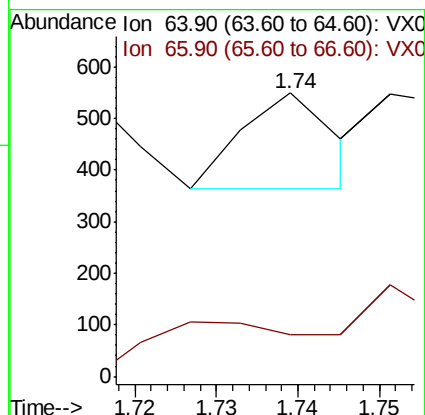
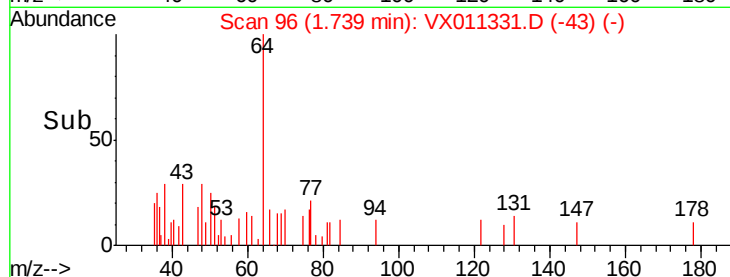


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.74

Time-->



#8

Diethyl Ether

Concen: 2.028 ug/l

RT: 2.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VX011331.D

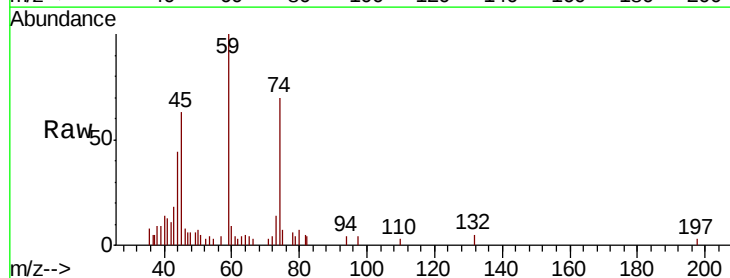
Acq: 05 Aug 2019 17:14

Tgt Ion: 74 Resp: 2274

Ion Ratio Lower Upper

74 100

45 84.7 46.1 138.3

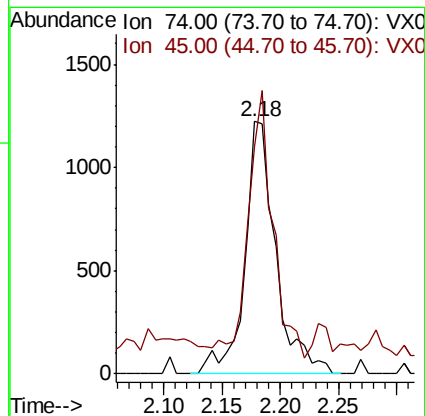
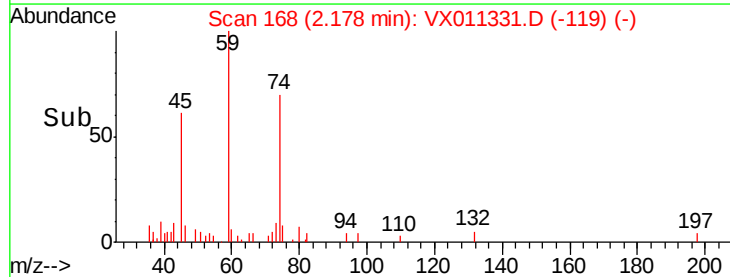


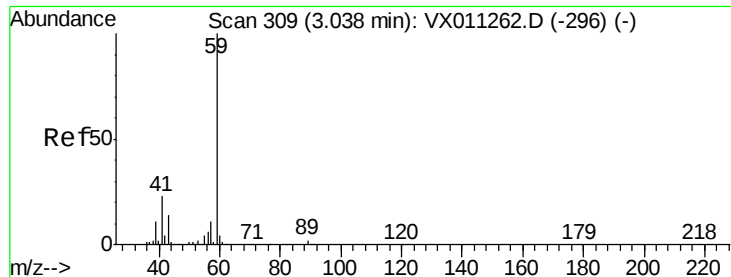
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

Time-->

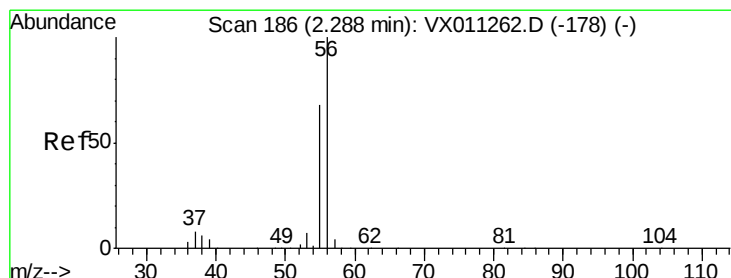
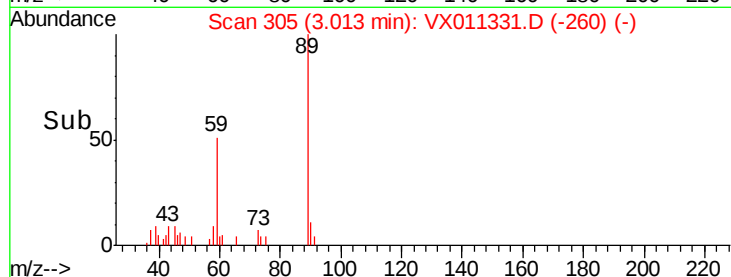
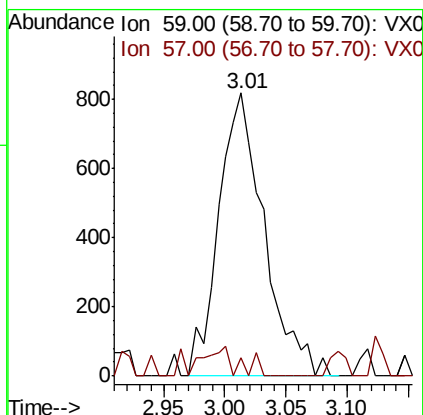
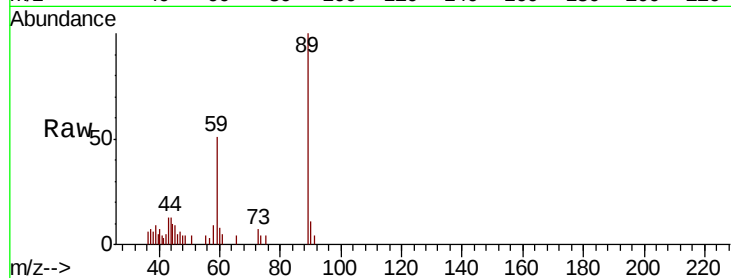




#11
Tert butvl alcohol
Concen: 5.728 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011331.D
Acq: 05 Aug 2019 17:14

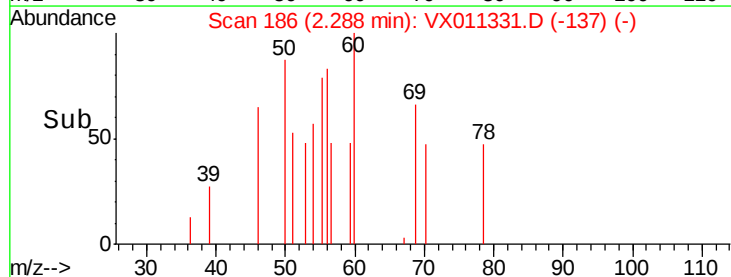
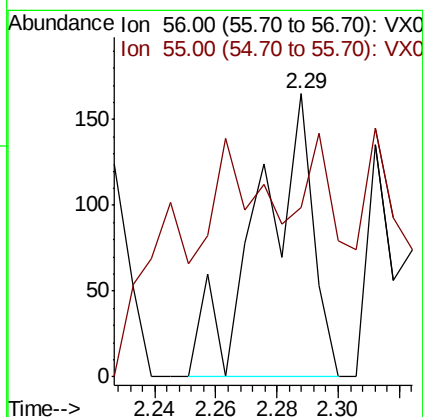
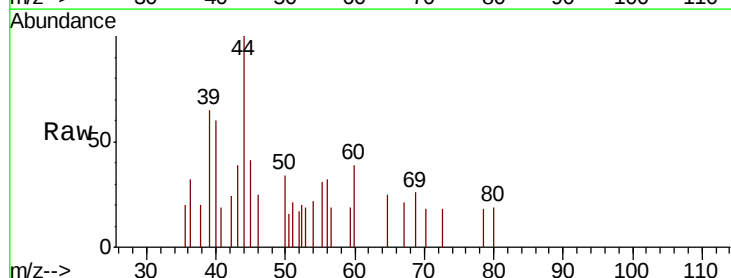
Instrument :
MSVOA_X
ClientSampled :

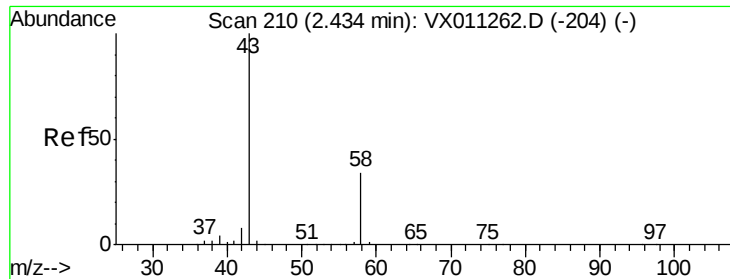
Tot Ion: 59 Resp: 2121
Ion Ratio Lower Upper
59 100
57 6.5 8.3 12.5#



#13
Acrolein
Concen: 0.448 ug/l
RT: 2.29 min Scan# 186
Delta R.T. 0.00 min
Lab File: VX011331.D
Acq: 05 Aug 2019 17:14

Tgt Ion: 56 Resp: 201
Ion Ratio Lower Upper
56 100
55 0.0 56.0 84.0#





#16

Acetone

Concen: 11.757 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

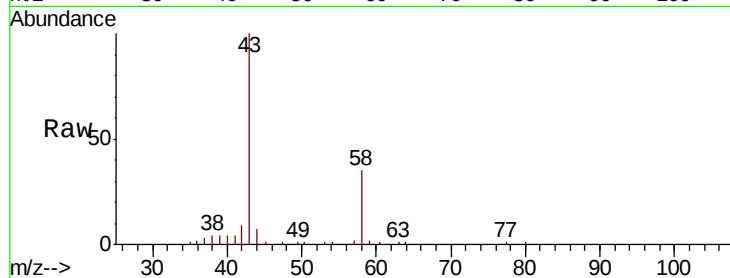
ClientSampleId :

Tot Ion: 43 Resp: 10432

Ion Ratio Lower Upper

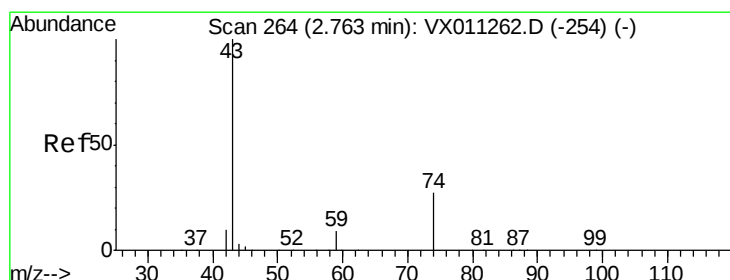
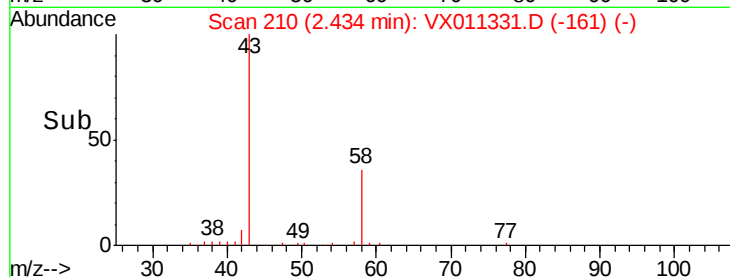
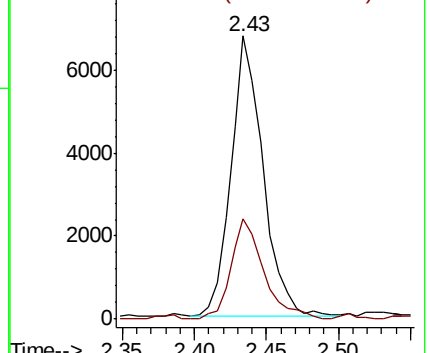
43 100

58 35.9 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.518 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011331.D

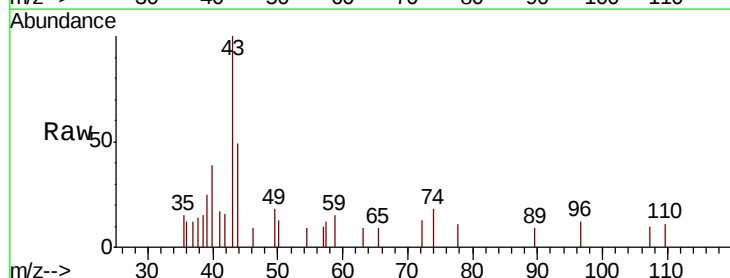
Acq: 05 Aug 2019 17:14

Tgt Ion: 43 Resp: 1051

Ion Ratio Lower Upper

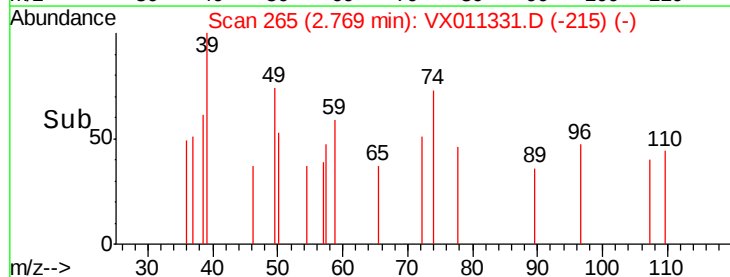
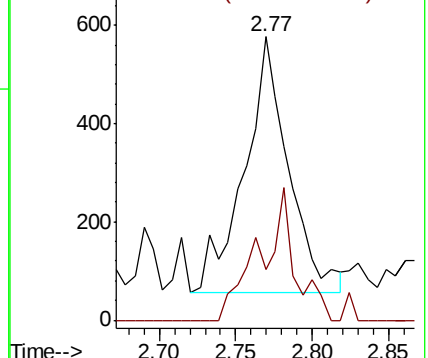
43 100

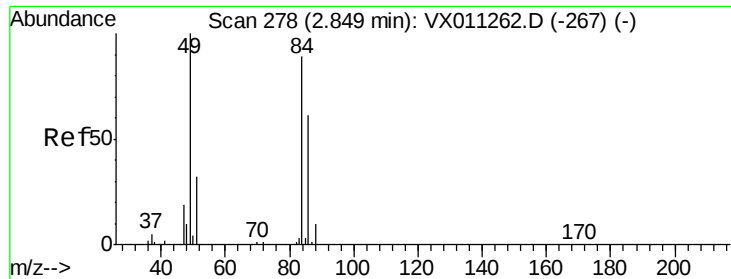
74 41.4 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

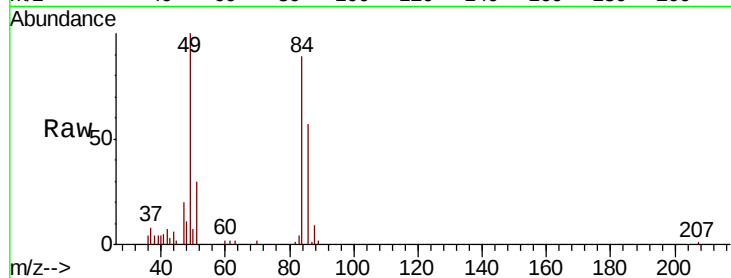




#20
Methvlene Chloride
Concen: 3.605 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011331.D
Acq: 05 Aug 2019 17:14

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	7005
Ion	Ratio	Lower	Upper
84	100		
49	112.7	89.3	133.9
51	33.6	28.3	42.5
86	64.0	54.5	81.7



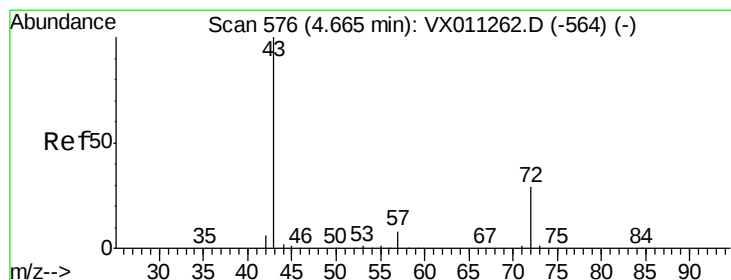
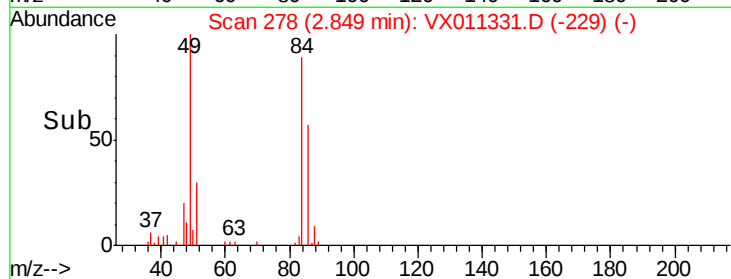
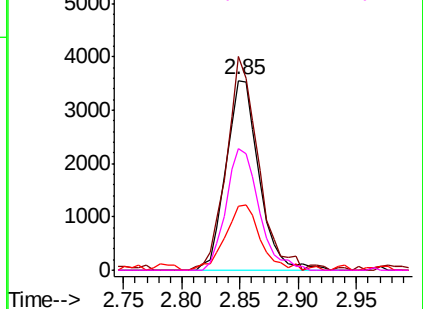
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

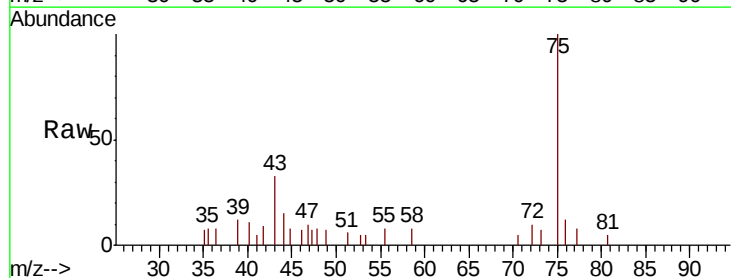
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25
2-Butanone
Concen: 0.943 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX011331.D
Acq: 05 Aug 2019 17:14

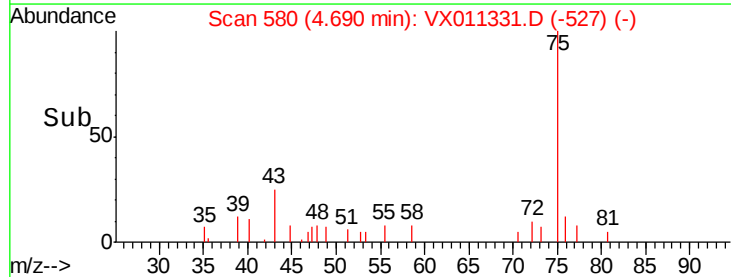
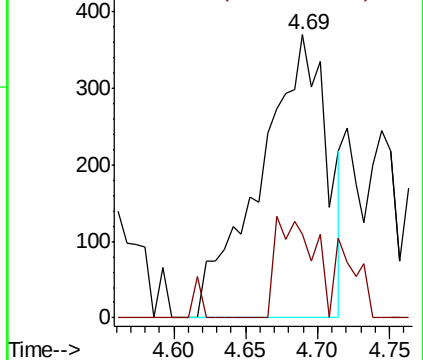
Tgt Ion:	43	Resp:	1190
Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.2	34.8

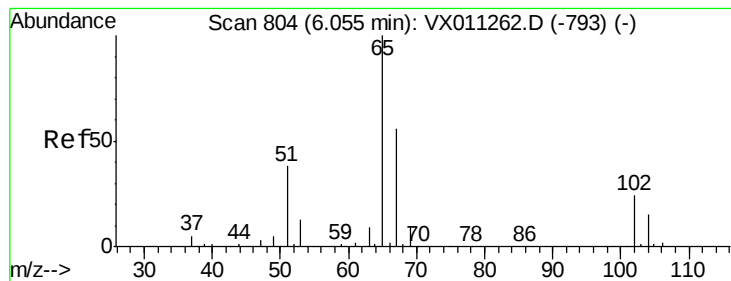


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.575 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

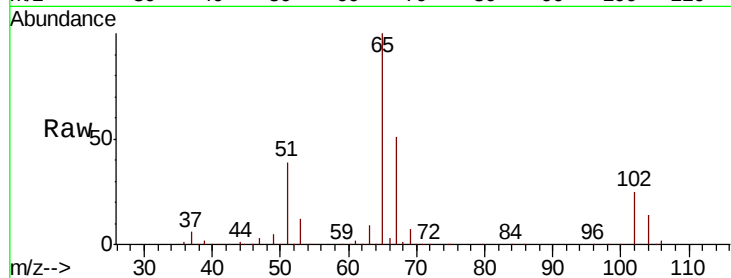
ClientSampleId :

Tot Ion: 65 Resp: 90549

Ion Ratio Lower Upper

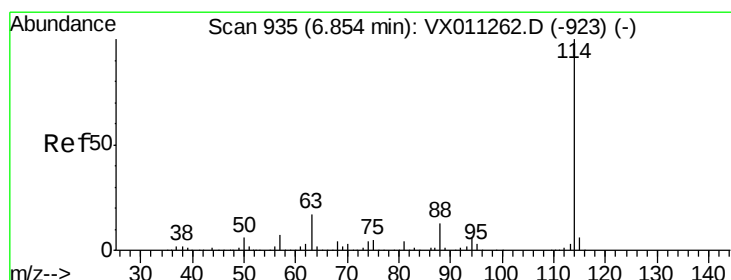
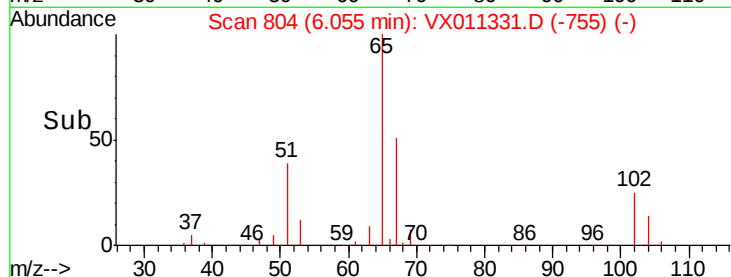
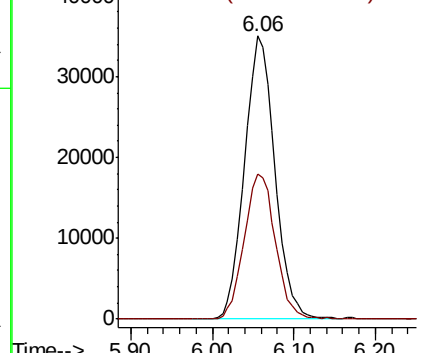
65 100

67 52.5 0.0 110.6



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: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

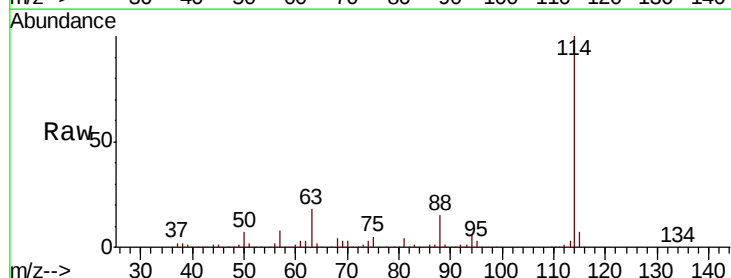
Tgt Ion: 114 Resp: 267745

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.0

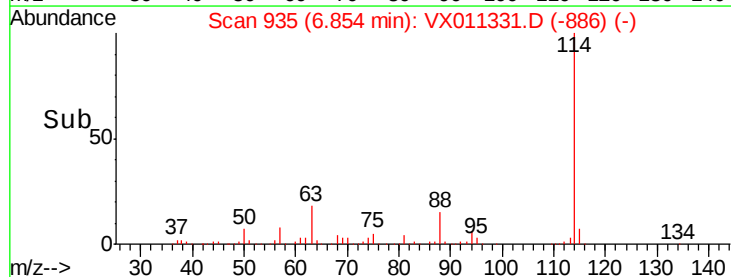
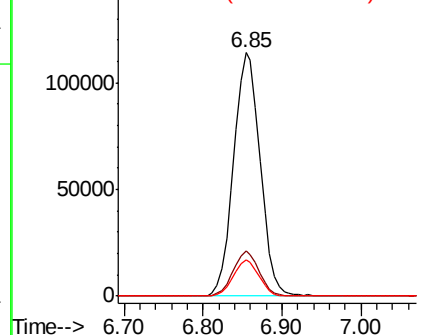
88 14.8 0.0 26.4

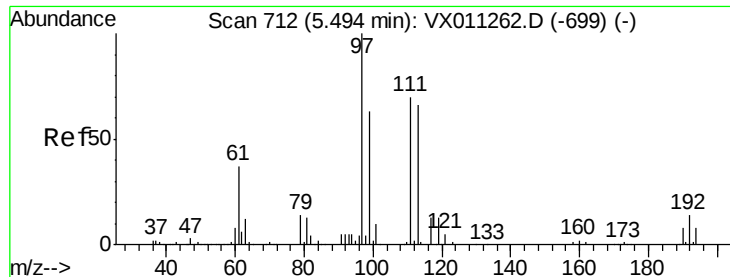


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.268 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

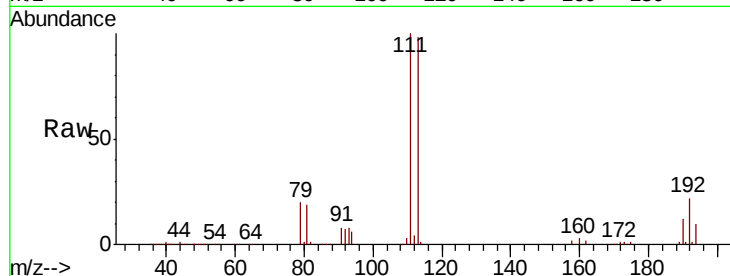
Tot Ion:113 Resp: 80878

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

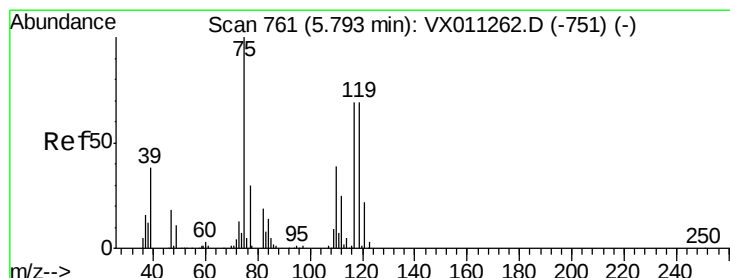
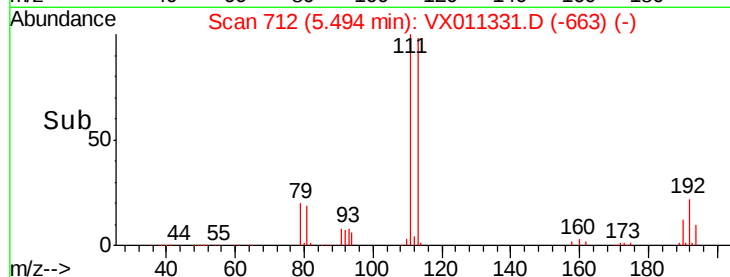
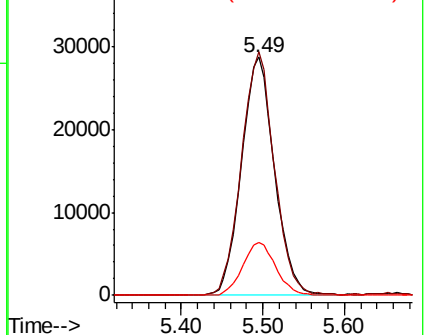
192 22.4 17.8 26.8



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: 5.310 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

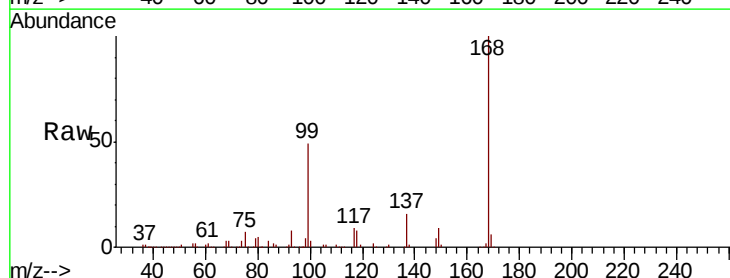
Tgt Ion: 75 Resp: 12414

Ion Ratio Lower Upper

75 100

110 10.9 20.0 59.9#

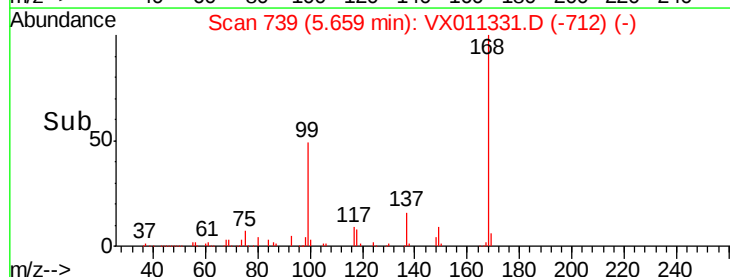
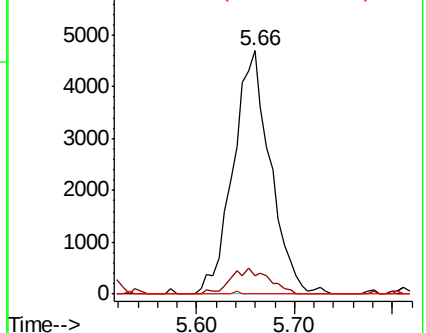
77 0.2 24.8 37.2#

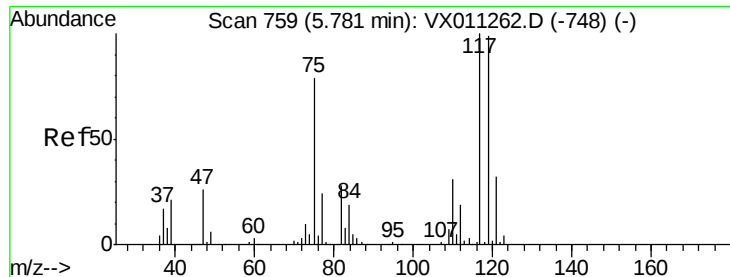


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.228 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

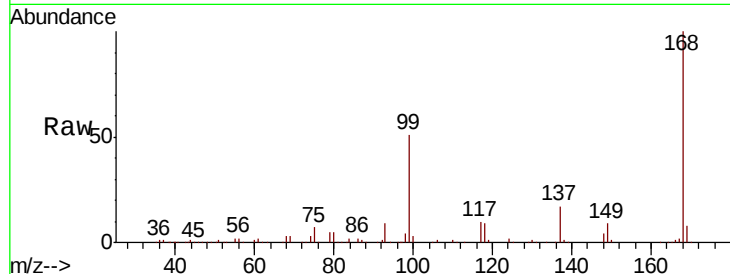
Tot Ion:117 Resp: 16999

Ion Ratio Lower Upper

117 100

119 7.7 79.0 118.4#

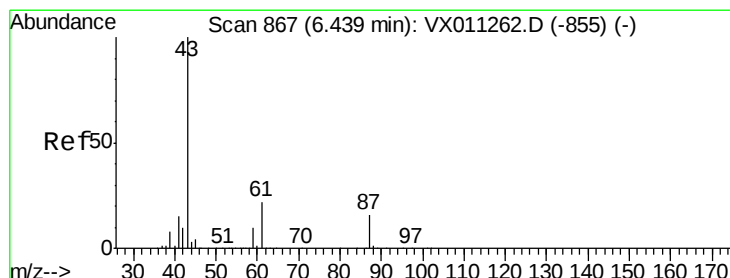
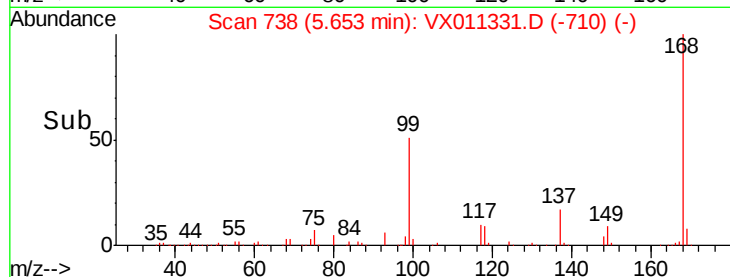
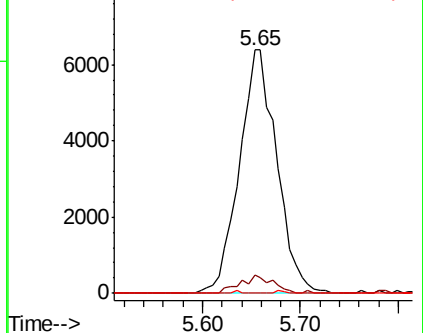
121 0.0 25.9 38.9#



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



#43

Isopropyl Acetate

Concen: 2.111 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

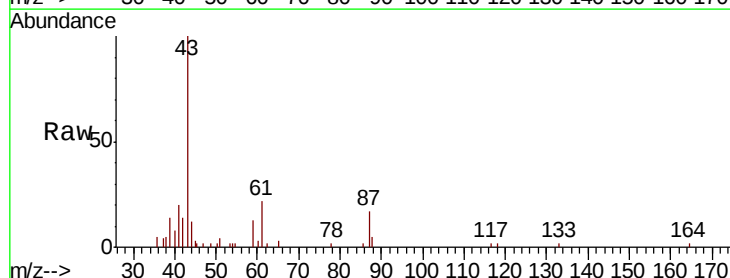
Tgt Ion: 43 Resp: 7915

Ion Ratio Lower Upper

43 100

61 23.3 16.5 24.7

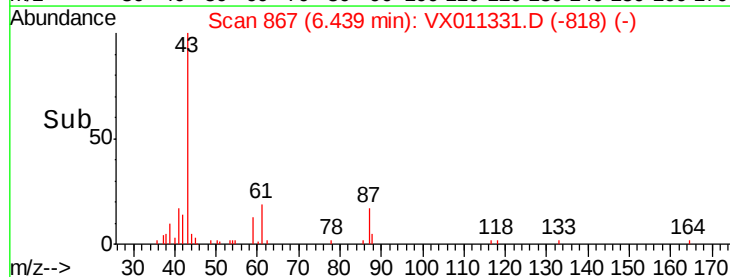
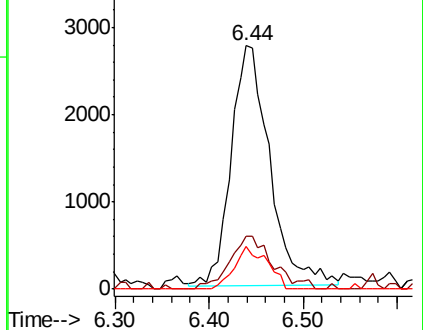
87 14.9 12.1 18.1

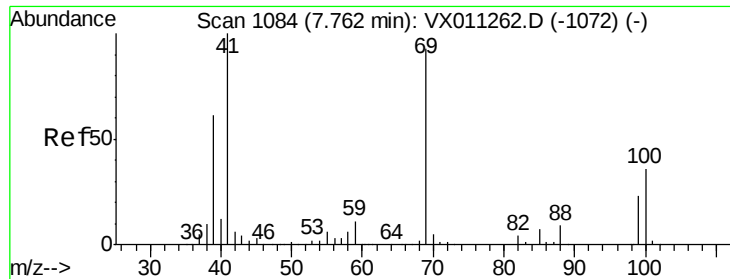


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 2.242 ug/l

RT: 7.68 min Scan# 1070

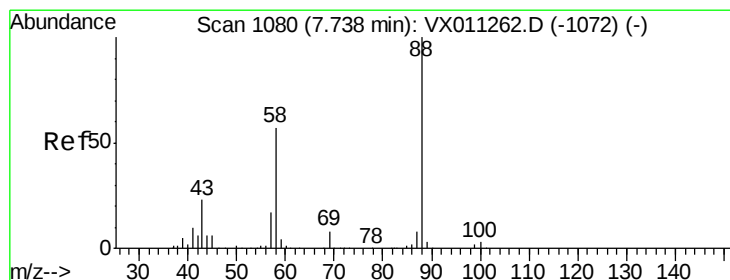
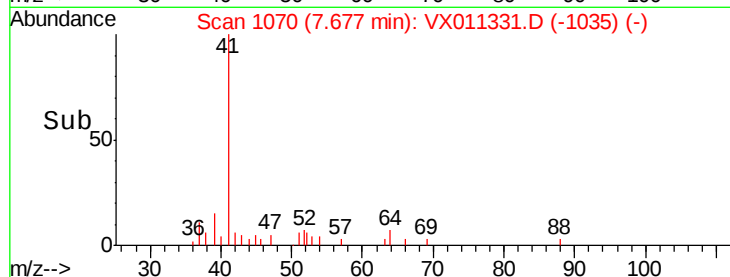
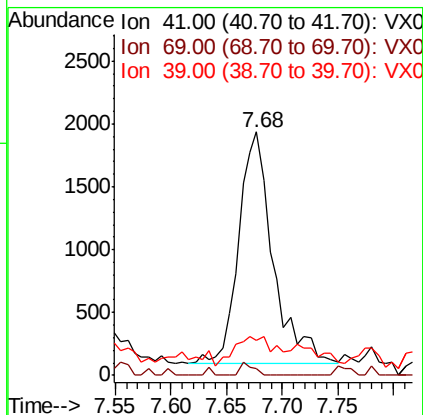
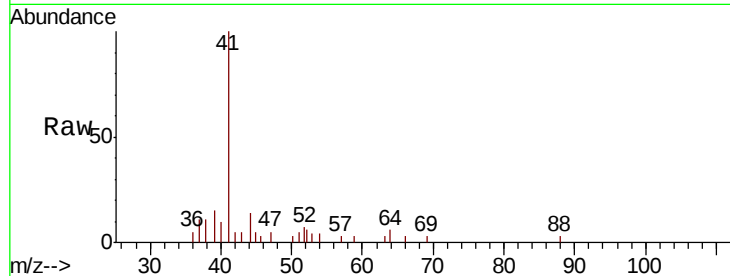
Delta R.T. -0.09 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	41	Resp:	3955
Ion	Ratio	Lower	Upper
41	100		
69	2.0	74.5	111.7#
39	0.0	48.6	72.8#



#49

1,4-Dioxane

Concen: 1.017 ug/l

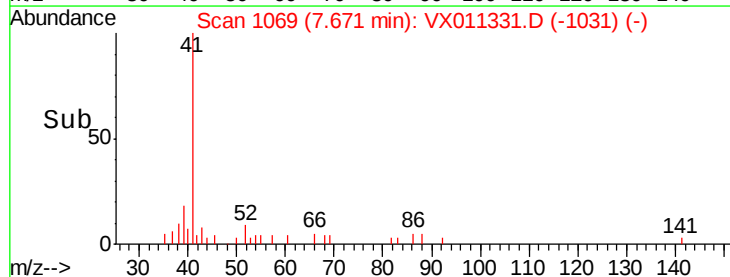
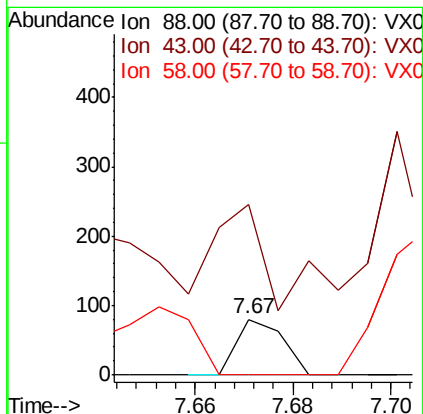
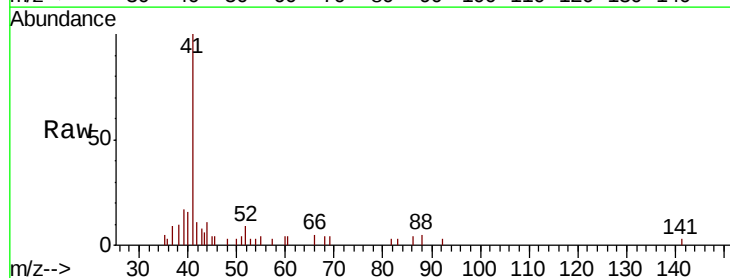
RT: 7.67 min Scan# 1069

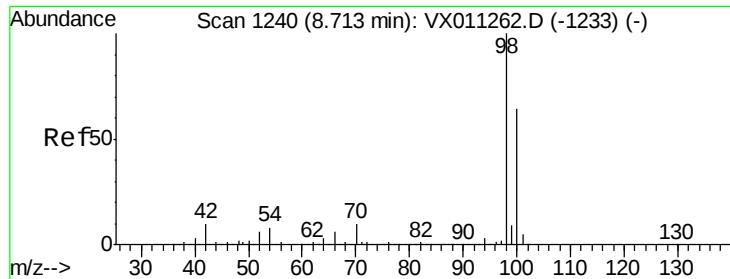
Delta R.T. -0.07 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Tgt Ion:	88	Resp:	52
Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.2#
58	175.0	47.8	71.8#





#50

Toluene-d8

Concen: 49.253 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

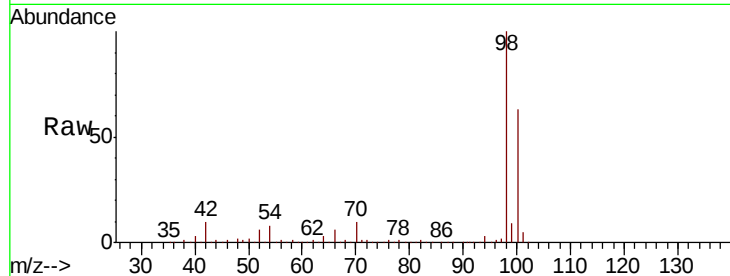
ClientSampleId :

Tot Ion: 98 Resp: 324988

Ion Ratio Lower Upper

98 100

100 63.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

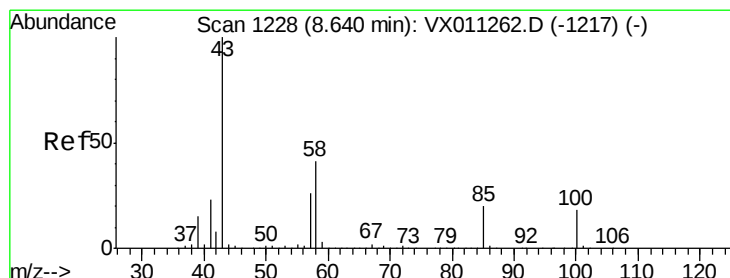
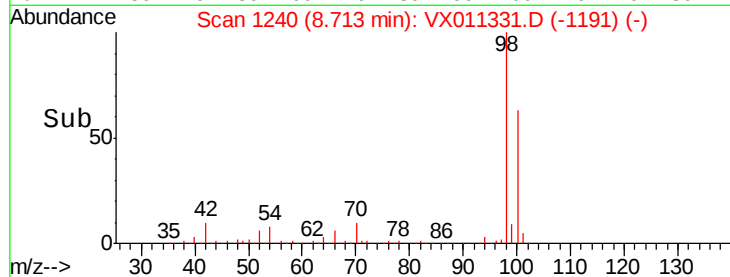
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 16.469 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011331.D

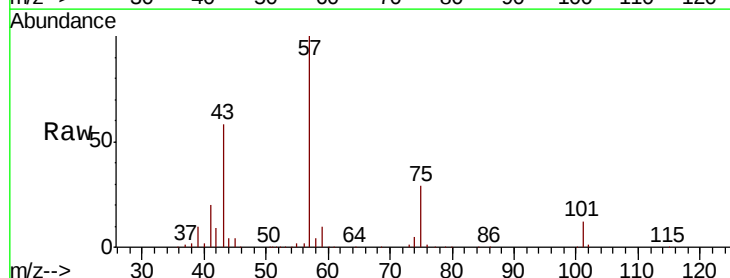
Acq: 05 Aug 2019 17:14

Tgt Ion: 43 Resp: 39845

Ion Ratio Lower Upper

43 100

58 8.7 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.61

30000

25000

20000

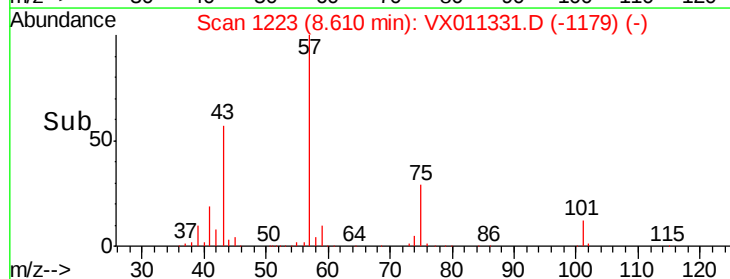
15000

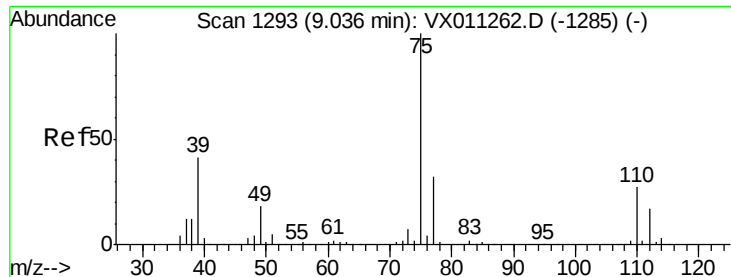
10000

5000

0

Time--> 8.50 8.60 8.70





#53

t-1,3-Dichloropropene

Concen: 2.854 ug/l

RT: 9.07 min Scan# 1299

Delta R.T. 0.04 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

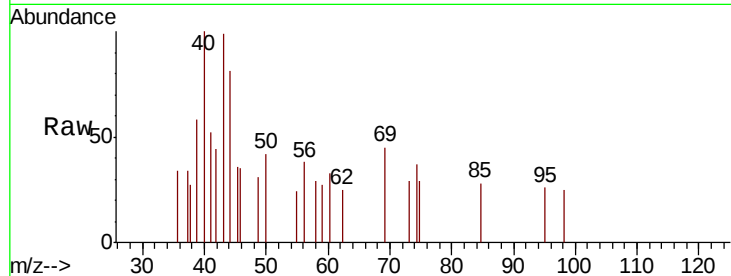
ClientSampleId :

Tot Ion: 75 Resp: 42

Ion Ratio Lower Upper

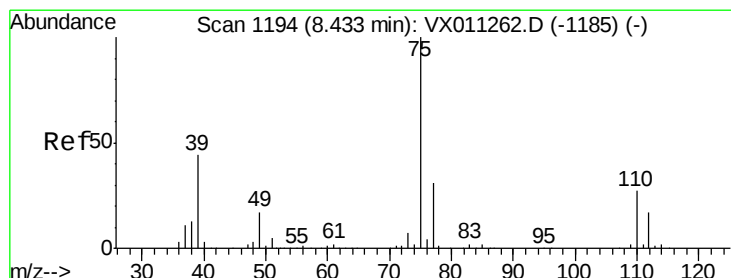
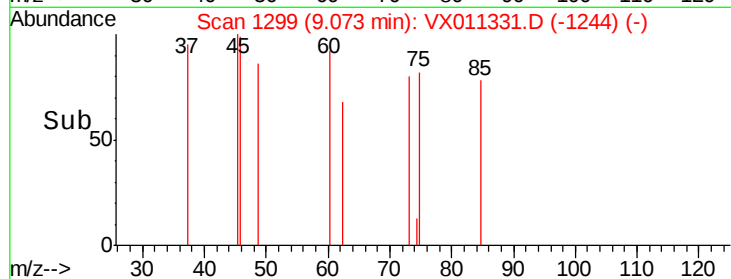
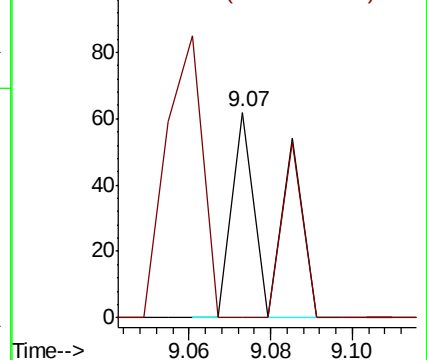
75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 7.701 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

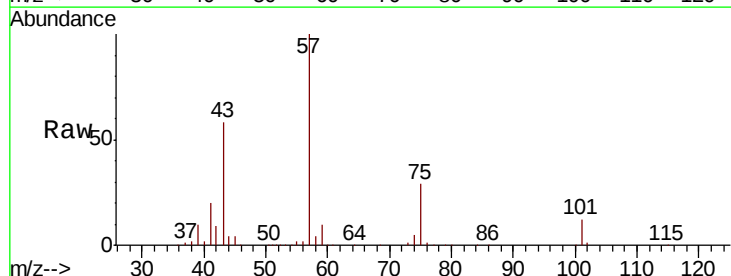
Tgt Ion: 75 Resp: 20088

Ion Ratio Lower Upper

75 100

77 1.0 25.0 37.6#

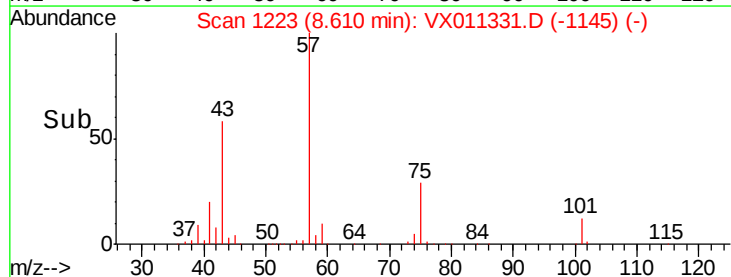
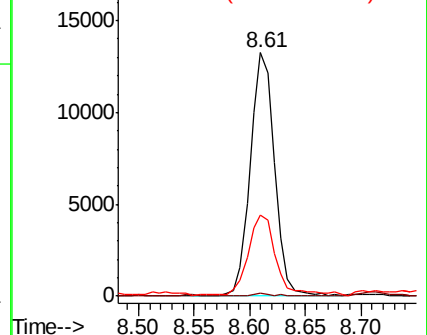
39 33.5 35.3 52.9#

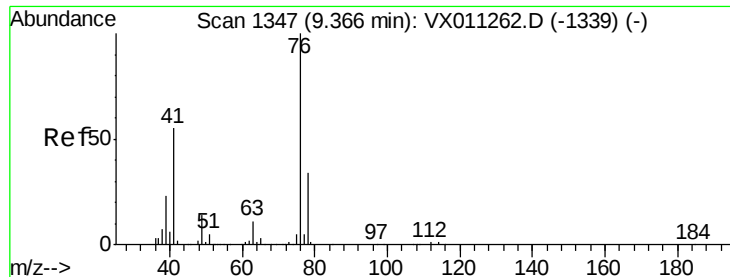


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.602 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

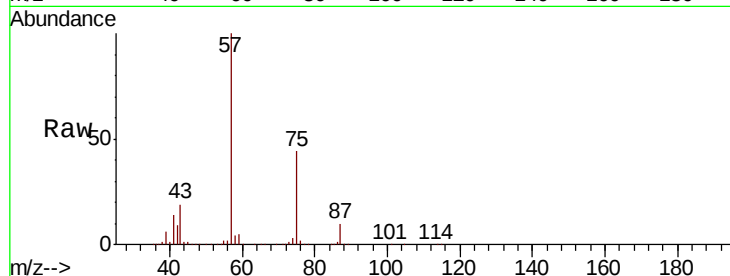
ClientSampleId :

Tot Ion: 76 Resp: 4804

Ion Ratio Lower Upper

76 100

78 1.4 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.54

4000

3000

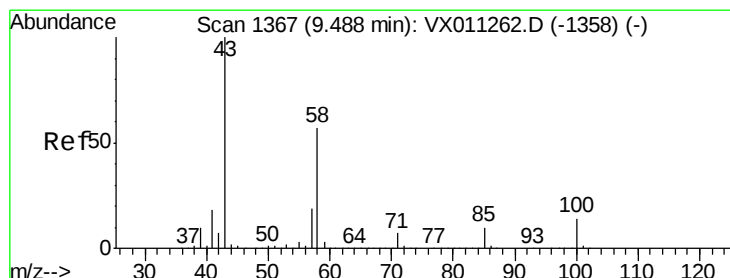
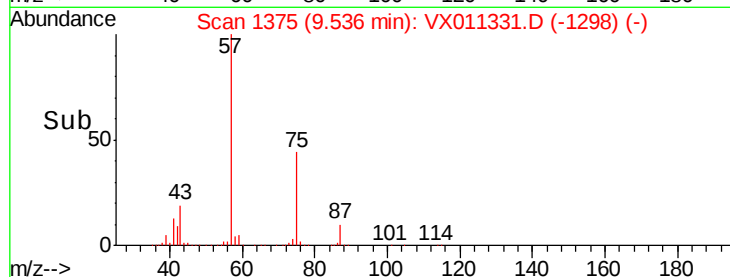
2000

1000

0

9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 30.172 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011331.D

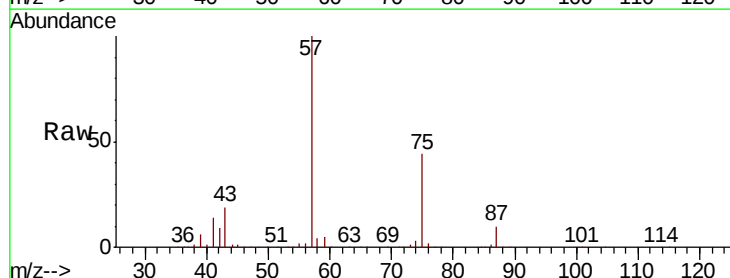
Acq: 05 Aug 2019 17:14

Tgt Ion: 43 Resp: 56541

Ion Ratio Lower Upper

43 100

58 20.8 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.54

50000

40000

30000

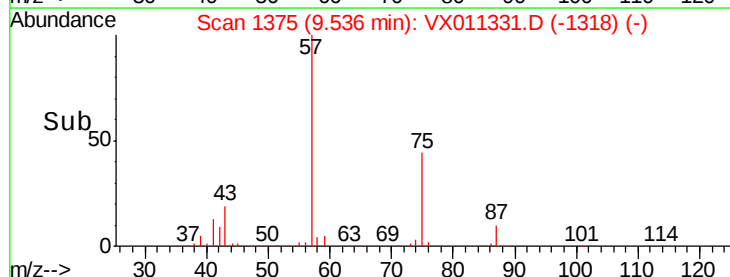
20000

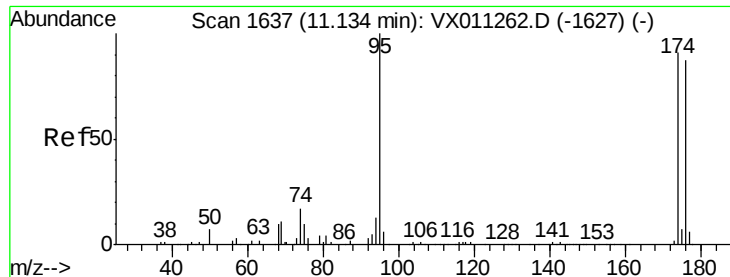
10000

0

9.50 9.55 9.60

Time-->

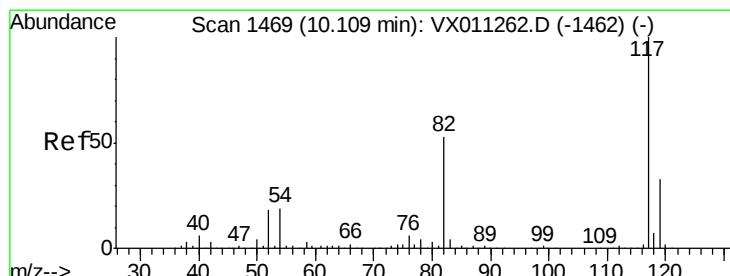
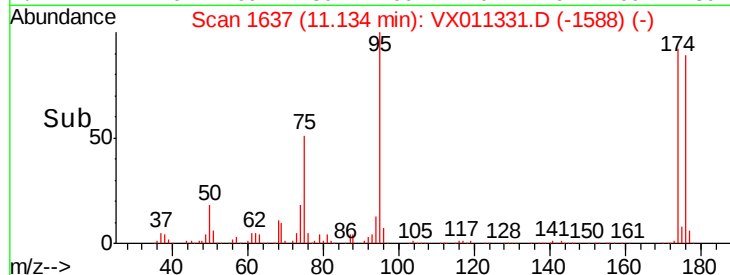
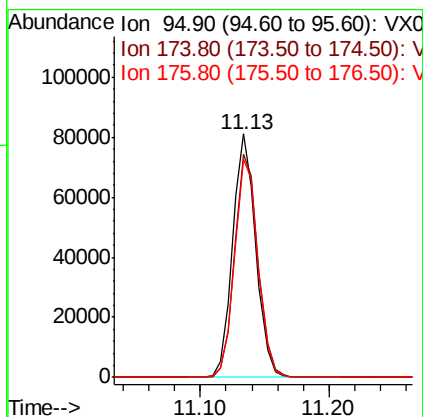
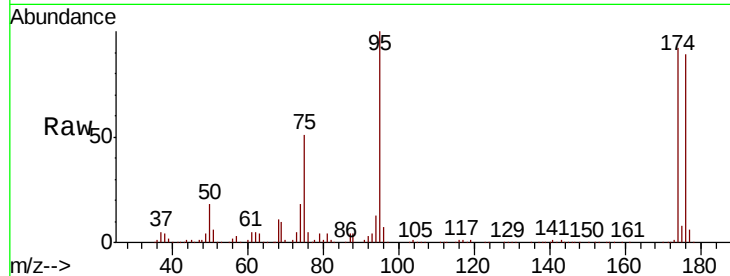




#62
4-Bromofluorobenzene
Concen: 43.255 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011331.D
Acq: 05 Aug 2019 17:14

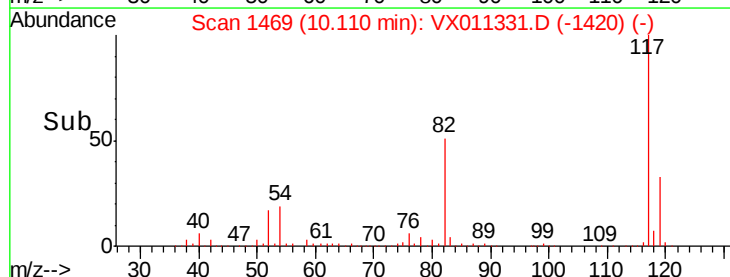
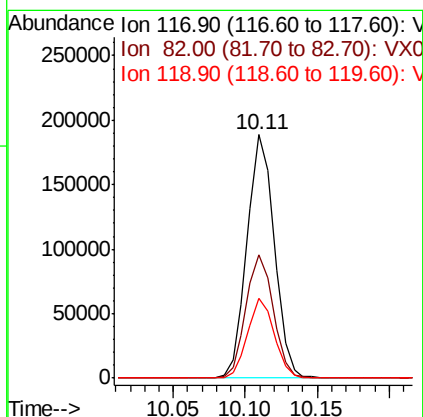
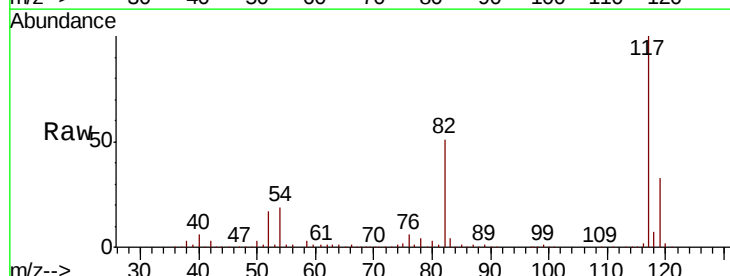
Instrument :
MSVOA_X
ClientSampleId :

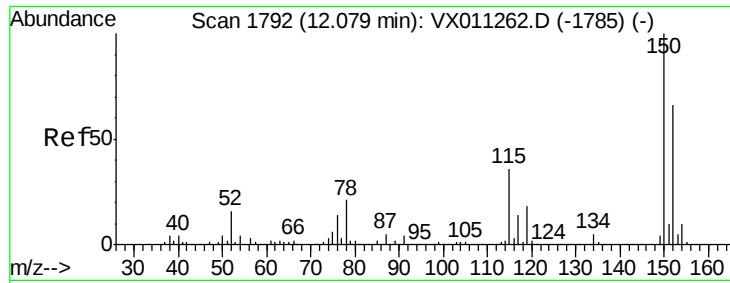
Tot Ion: 95 Resp: 101899
Ion Ratio Lower Upper
95 100
174 92.8 0.0 191.2
176 90.4 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011331.D
Acq: 05 Aug 2019 17:14

Tgt Ion: 117 Resp: 247237
Ion Ratio Lower Upper
117 100
82 50.5 42.2 63.2
119 32.5 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

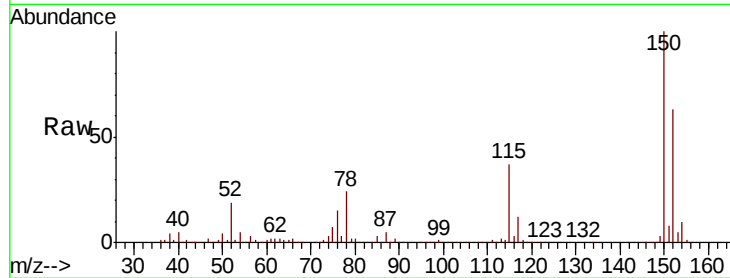
Tot Ion:152 Resp: 108412

Ion Ratio Lower Upper

152 100

115 56.5 40.0 119.9

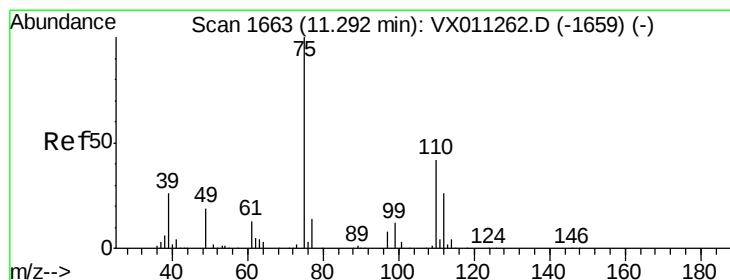
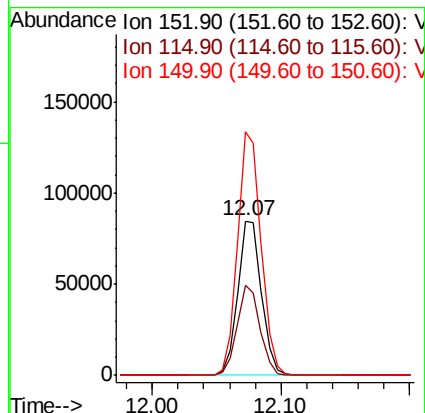
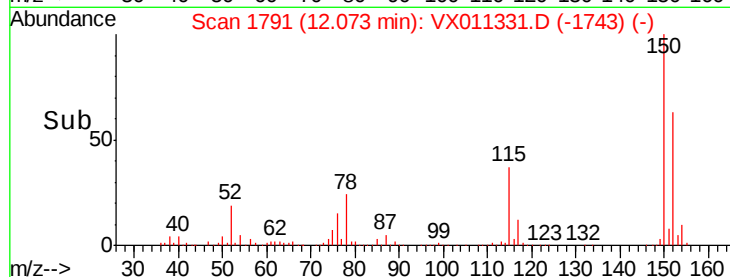
150 156.8 0.0 350.4



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: 25.524 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011331.D

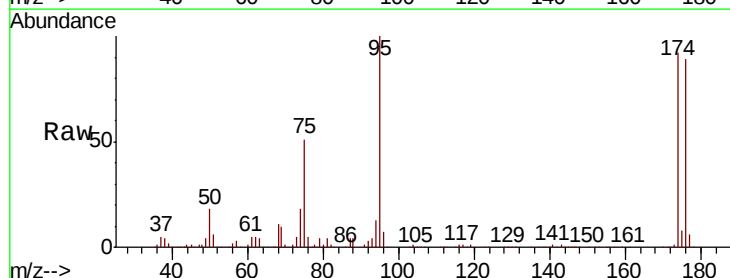
Acq: 05 Aug 2019 17:14

Tgt Ion: 75 Resp: 50393

Ion Ratio Lower Upper

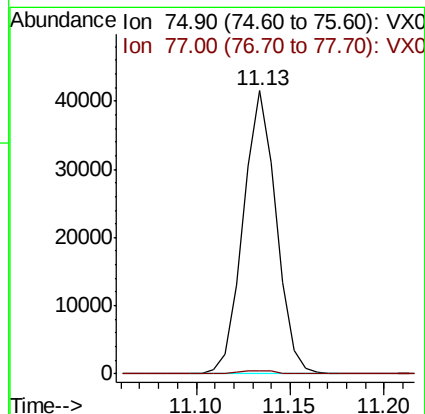
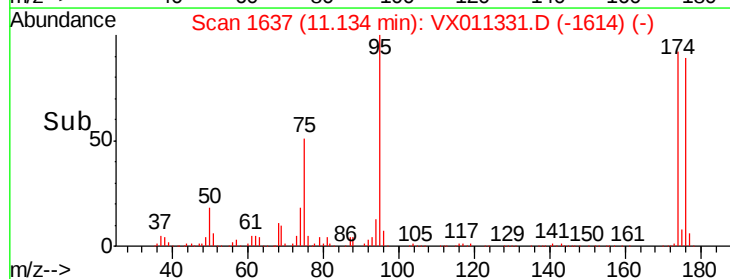
75 100

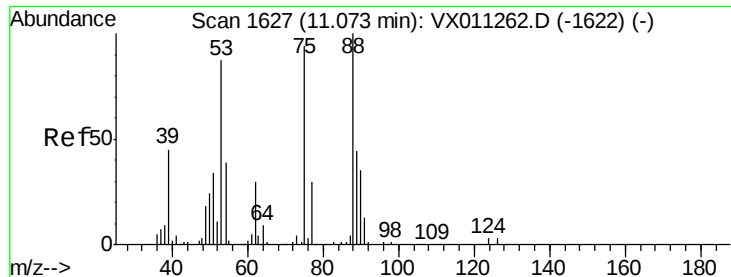
77 1.4 21.1 63.4#



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: 66.513 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011331.D

Acq: 05 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

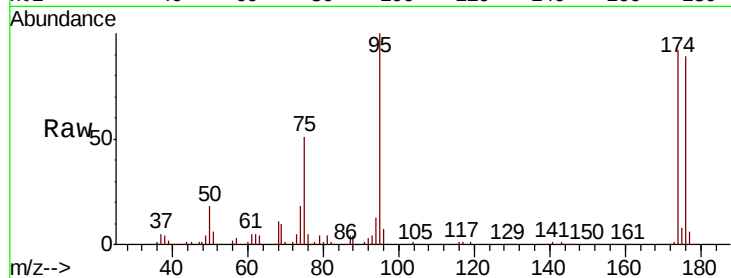
Tot Ion: 75 Resp: 50393

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 37.9 56.9#



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

