

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX010319\
 Data File : VX006896.D
 Acq On : 03 Jan 2019 15:52
 Operator : JC/MD
 Sample : K1032-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0646

Quant Time: Jan 04 00:21:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	658620	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	996657	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	914784	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	440212	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	344476	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
35) Dibromofluoromethane	5.50	113	301542	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	8.71	98	1171133	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	11.13	95	416256	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	

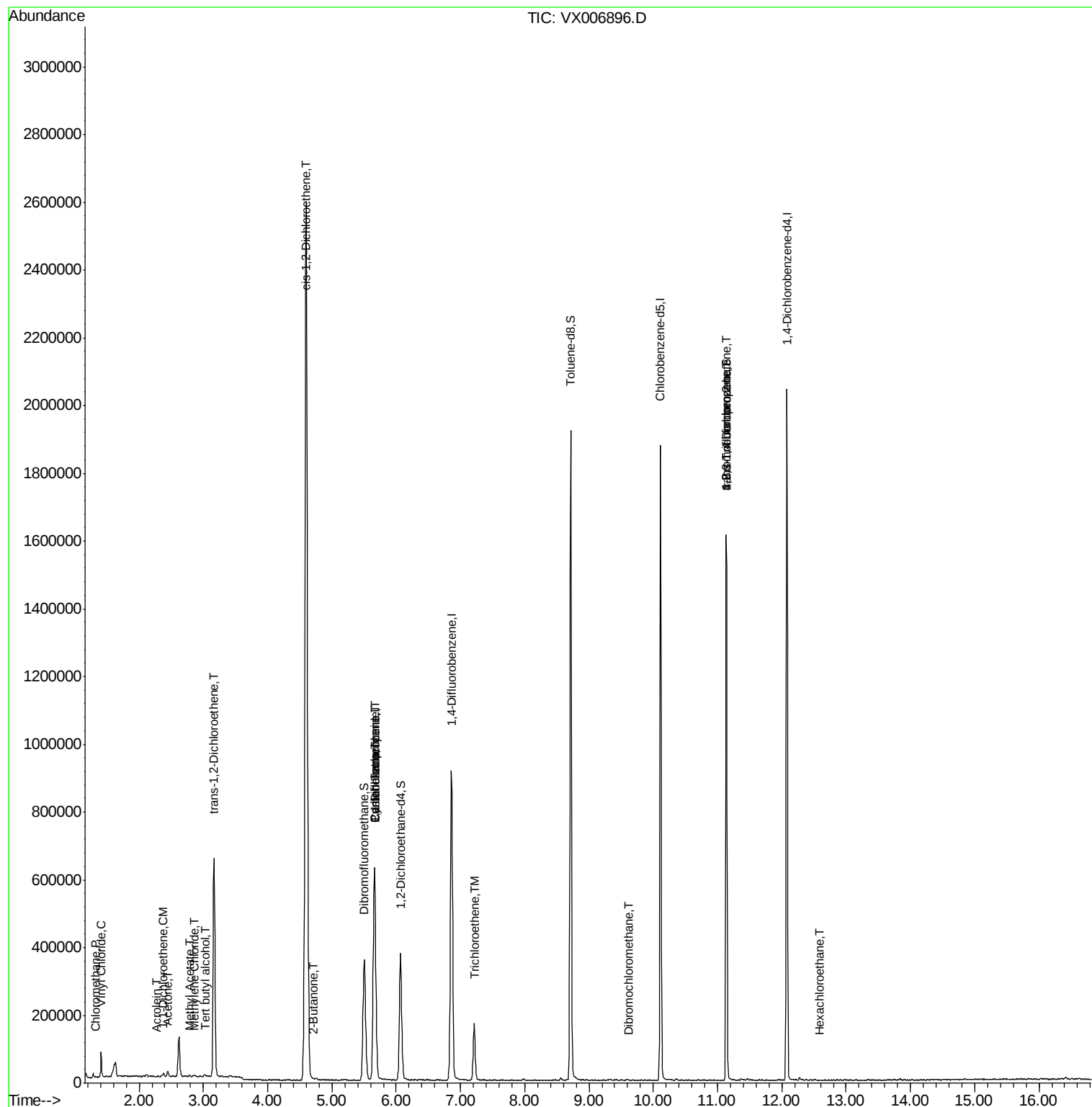
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1635	0.252	ug/l #	63
4) Vinyl Chloride	1.41	62	45891	6.769	ug/l	96
5) Bromomethane	1.64	94	1035	Below Cal	#	71
11) Tert butyl alcohol	3.03	59	3418	2.158	ug/l #	82
12) 1,1-Dichloroethene	2.38	96	2959	0.503	ug/l	94
13) Acrolein	2.28	56	290	0.271	ug/l #	13
16) Acetone	2.45	43	18928	5.804	ug/l	92
18) Methyl Acetate	2.78	43	4148	0.433	ug/l #	80
20) Methylene Chloride	2.87	84	2241	0.332	ug/l #	66
21) trans-1,2-Dichloroethene	3.17	96	272395	41.778	ug/l	98
25) 2-Butanone	4.71	43	1388	0.303	ug/l #	83
27) cis-1,2-Dichloroethene	4.60	96	1742121	242.172	ug/l	92
28) Bromochloromethane	5.03	49	247	Below Cal	#	10
31) Cyclohexane	5.67	56	11185	1.138	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	42513	5.150	ug/l #	49
38) Carbon Tetrachloride	5.67	117	59158	7.374	ug/l #	14
44) Trichloroethene	7.21	130	66693	8.782	ug/l	99
49) 1,4-Dioxane	7.78	88	55	Below Cal	#	1
60) Dibromochloromethane	9.62	129	25	2.328	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	196338	23.999	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	196338	71.087	ug/l #	10
90) Hexachloroethane	12.58	117	160	3.329	ug/l #	6

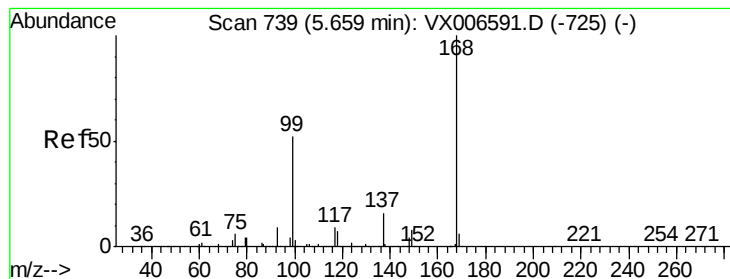
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX010319\
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Quant Time: Jan 04 00:21:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 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: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

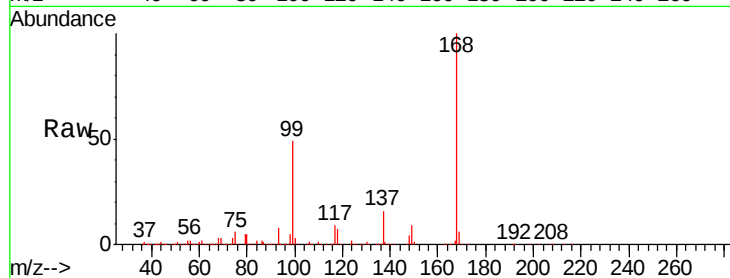
S32-0646

Tgt Ion:168 Resp: 658620

Ion Ratio Lower Upper

168 100

99 49.4 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

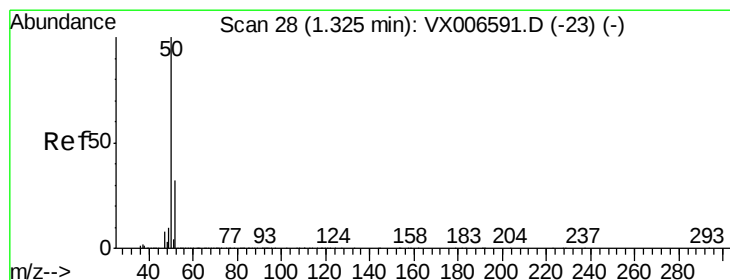
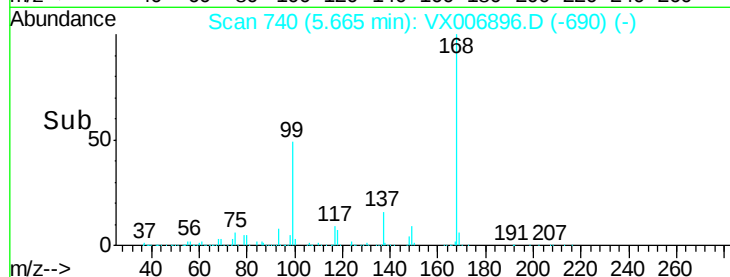
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.252 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006896.D

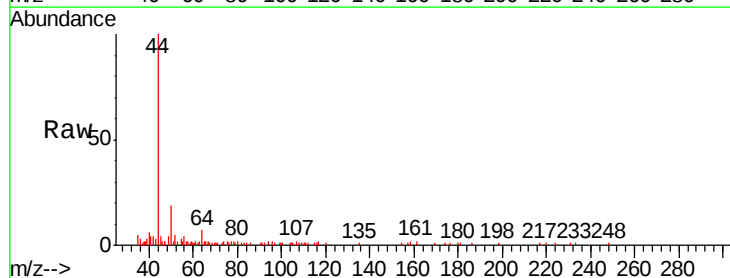
Acq: 03 Jan 2019 15:52

Tgt Ion: 50 Resp: 1635

Ion Ratio Lower Upper

50 100

52 11.2 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

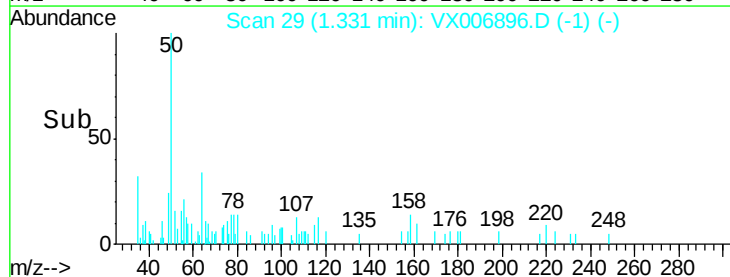
1500

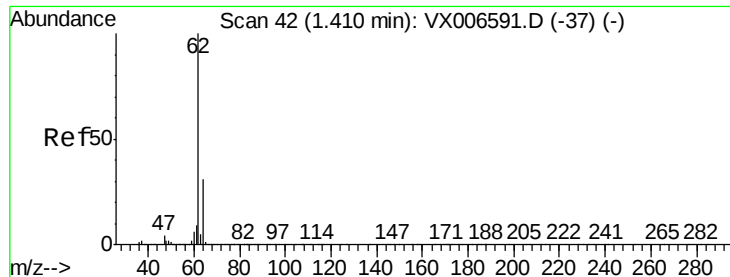
1000

500

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 6.769 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

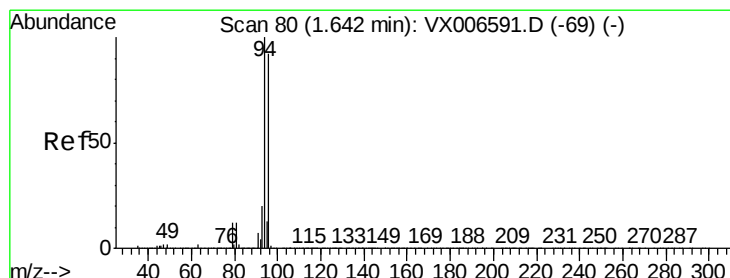
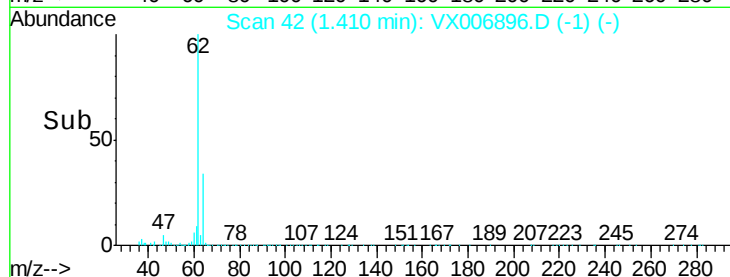
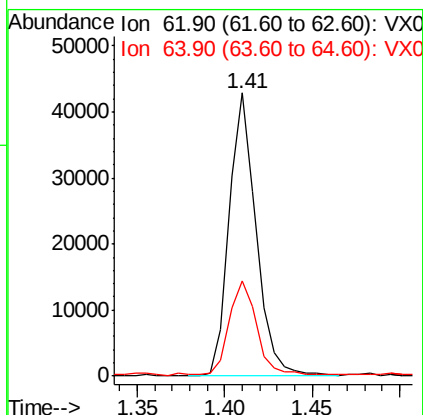
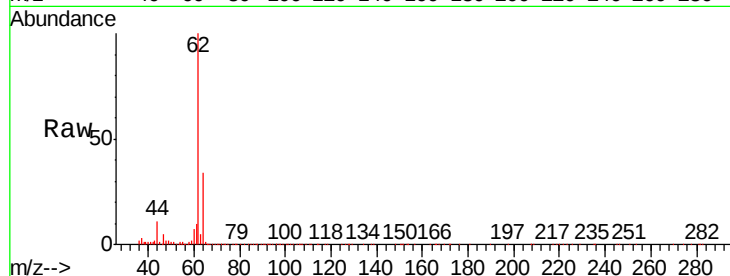
S32-0646

Tgt Ion: 62 Resp: 45891

Ion Ratio Lower Upper

62 100

64 33.4 25.1 37.7



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006896.D

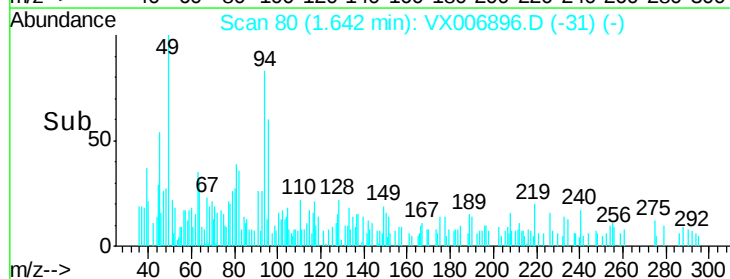
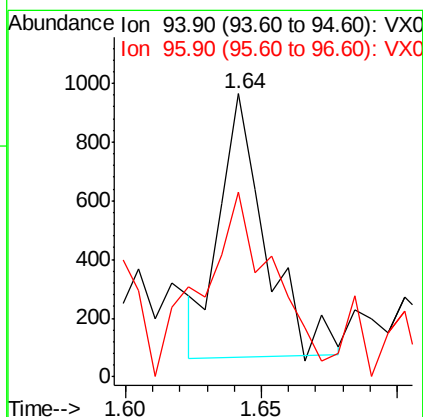
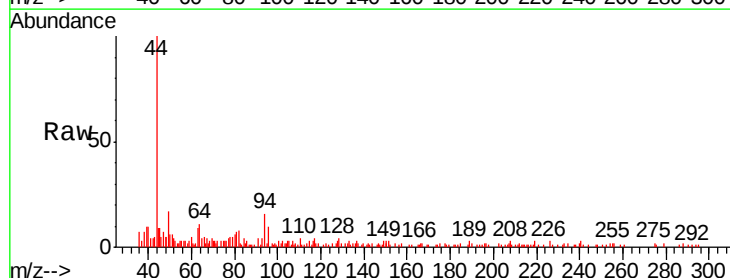
Acq: 03 Jan 2019 15:52

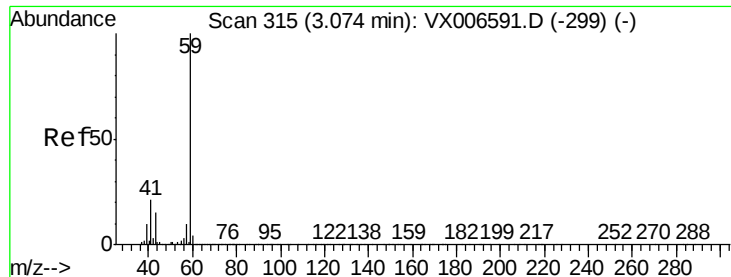
Tgt Ion: 94 Resp: 1035

Ion Ratio Lower Upper

94 100

96 64.2 73.4 110.2#





#11

Tert butyl alcohol

Concen: 2.158 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

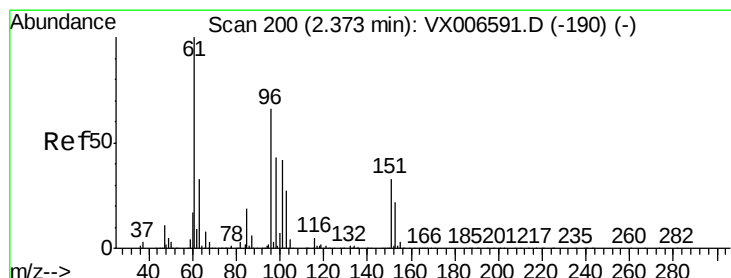
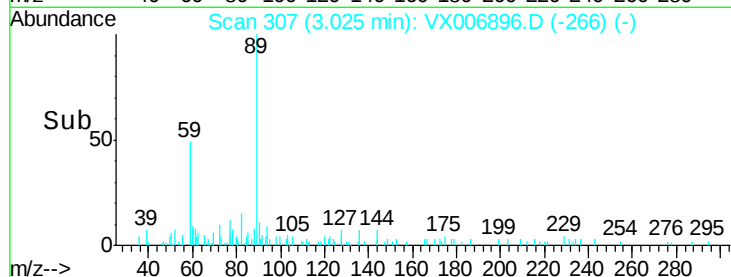
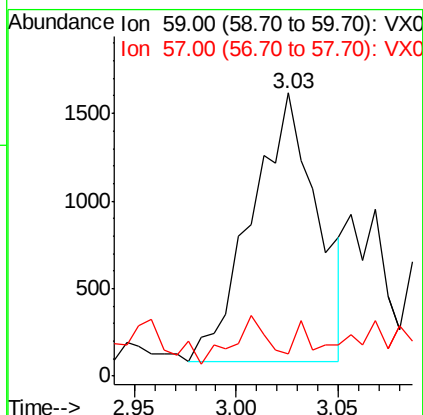
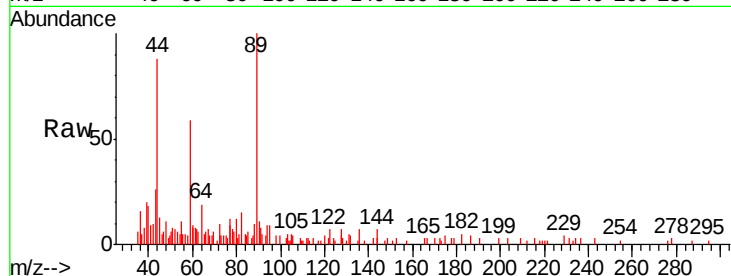
S32-0646

Tgt Ion: 59 Resp: 3418

Ion Ratio Lower Upper

59 100

57 3.7 8.5 12.7#



#12

1,1-Dichloroethene

Concen: 0.503 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

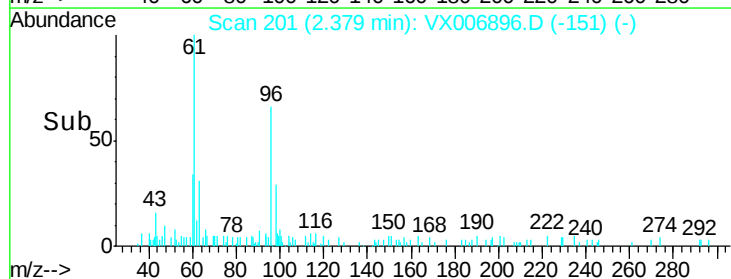
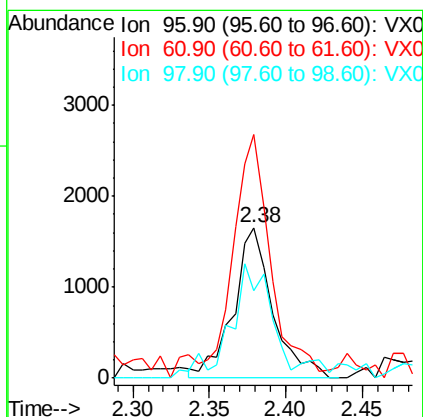
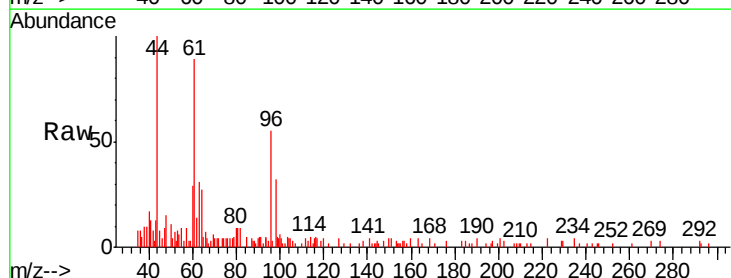
Tgt Ion: 96 Resp: 2959

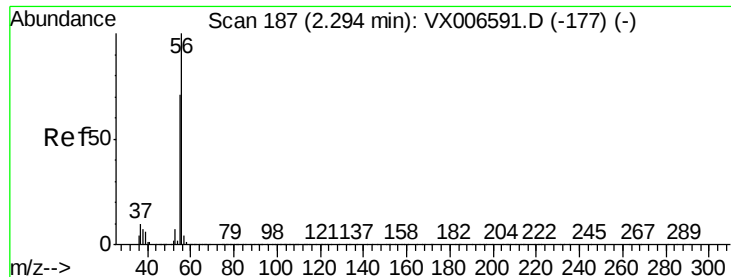
Ion Ratio Lower Upper

96 100

61 154.7 121.4 182.2

98 53.2 51.9 77.9





#13

Acrolein

Concen: 0.271 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampled :

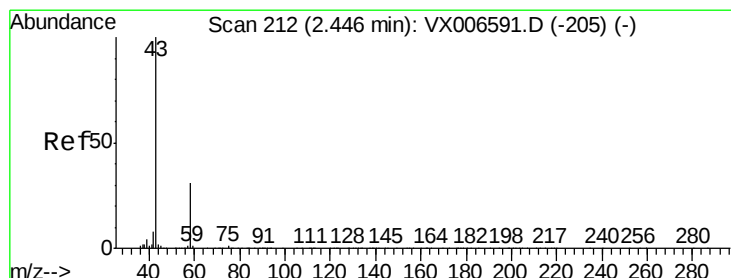
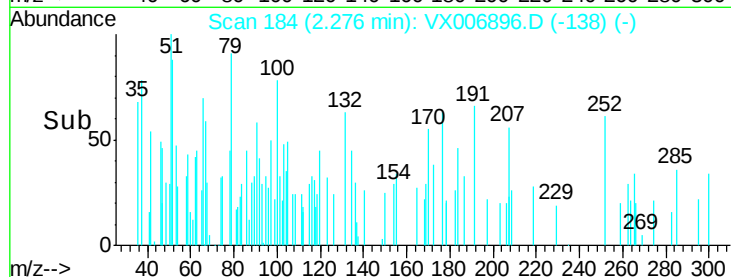
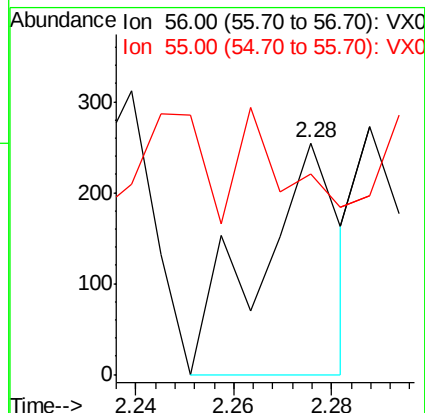
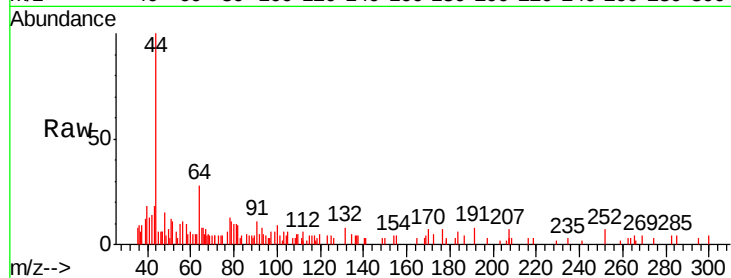
S32-0646

Tgt Ion: 56 Resp: 290

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 5.804 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006896.D

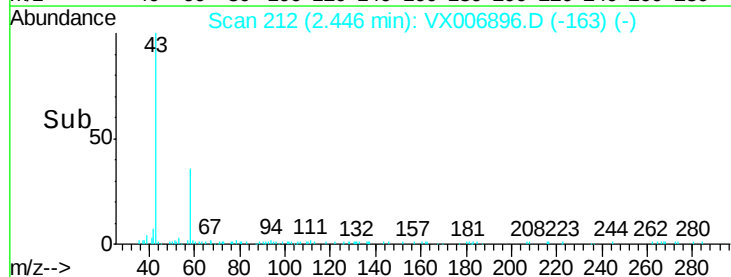
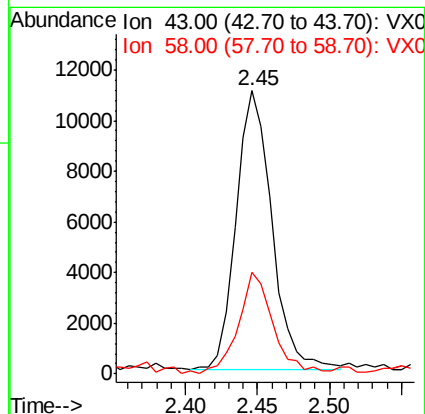
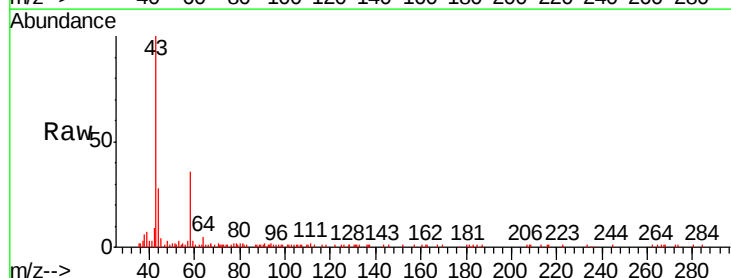
Acq: 03 Jan 2019 15:52

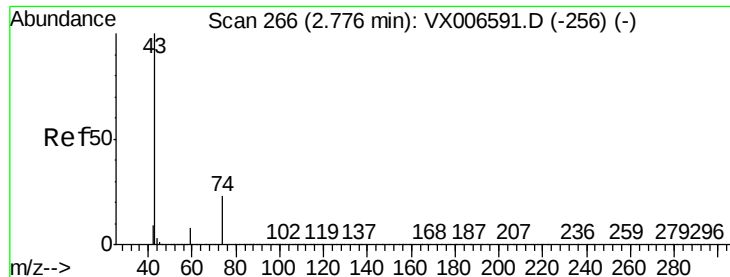
Tgt Ion: 43 Resp: 18928

Ion Ratio Lower Upper

43 100

58 35.7 25.0 37.6





#18

Methyl Acetate

Concen: 0.433 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

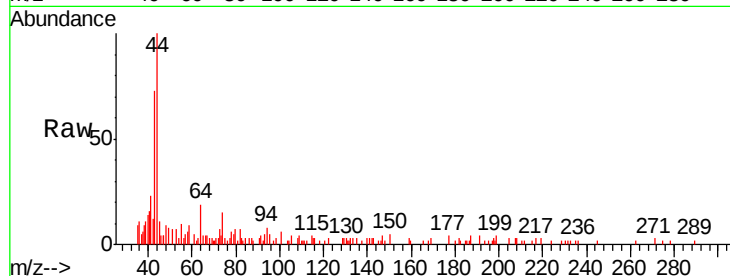
S32-0646

Tgt Ion: 43 Resp: 4148

Ion Ratio Lower Upper

43 100

74 33.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

2500

2000

1500

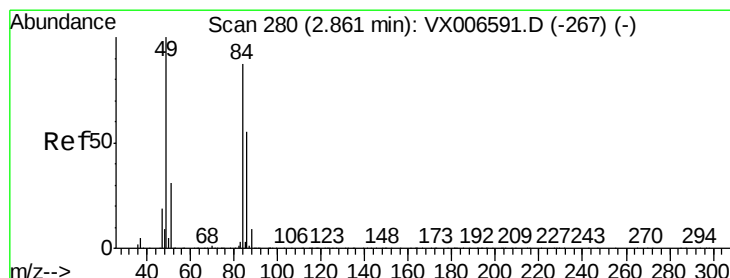
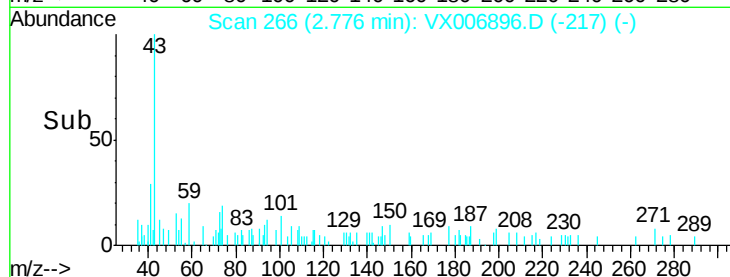
1000

500

0

Time-->

2.70 2.75 2.80 2.85



#20

Methylene Chloride

Concen: 0.332 ug/l

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Tgt Ion: 84 Resp: 2241

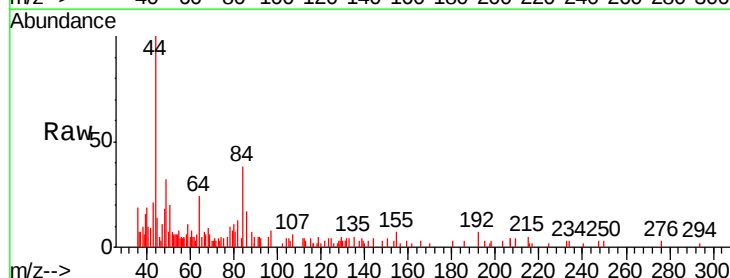
Ion Ratio Lower Upper

84 100

49 69.7 91.8 137.6#

51 54.3 28.5 42.7#

86 45.7 50.2 75.2#



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

2000

1500

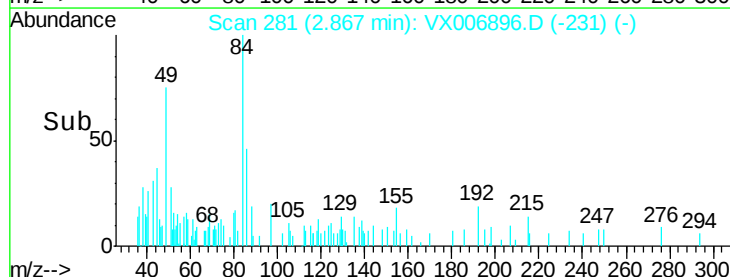
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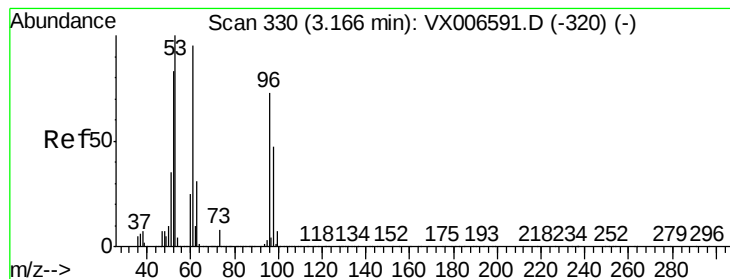
500

0

Time-->

2.80 2.85 2.90





#21

trans-1,2-Dichloroethene

Concen: 41.778 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampled :

S32-0646

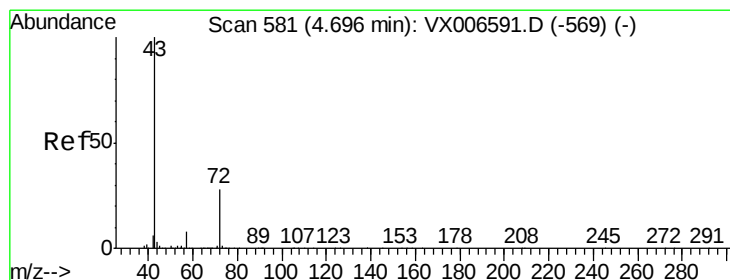
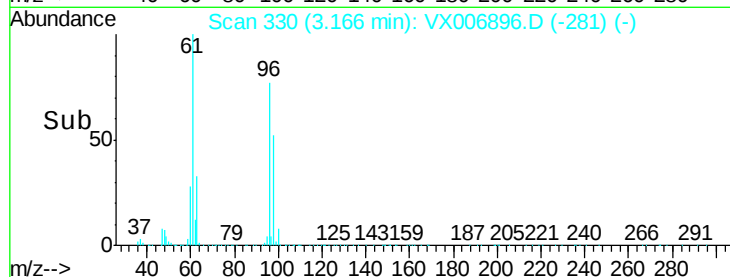
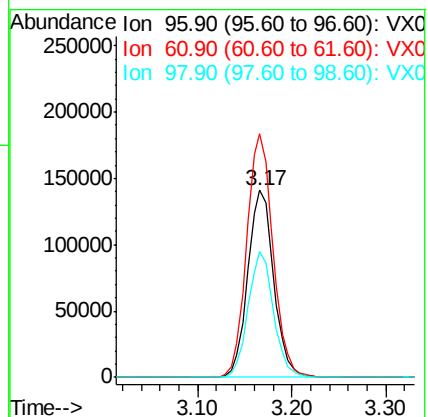
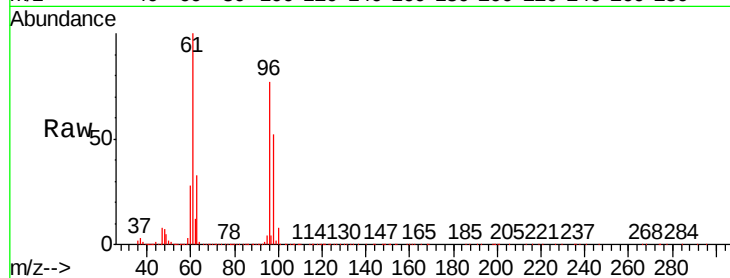
Tgt Ion: 96 Resp: 272395

Ion Ratio Lower Upper

96 100

61 130.2 103.7 155.5

98 67.2 51.0 76.6



#25

2-Butanone

Concen: 0.303 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX006896.D

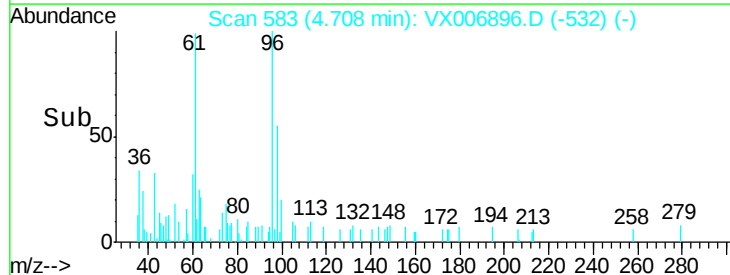
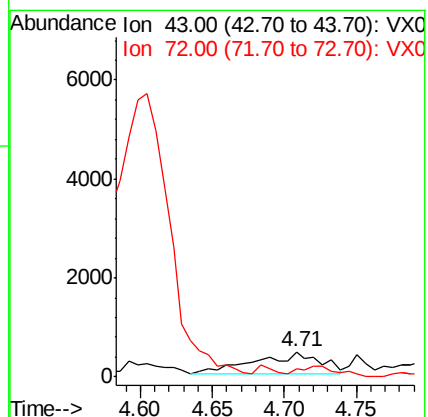
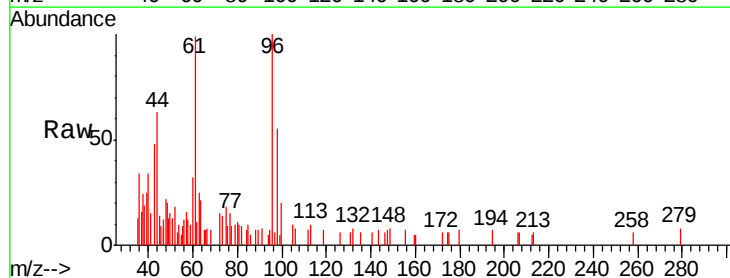
Acq: 03 Jan 2019 15:52

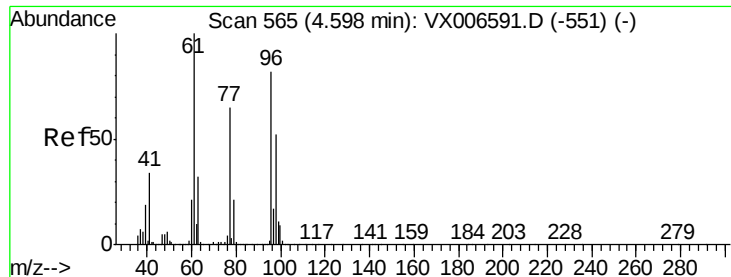
Tgt Ion: 43 Resp: 1388

Ion Ratio Lower Upper

43 100

72 19.2 22.4 33.6#



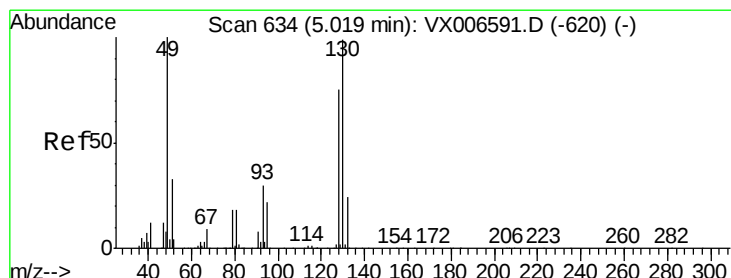
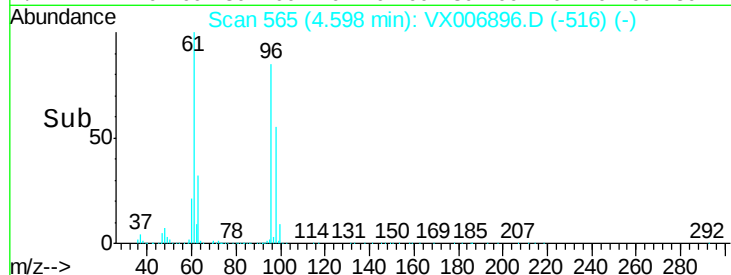
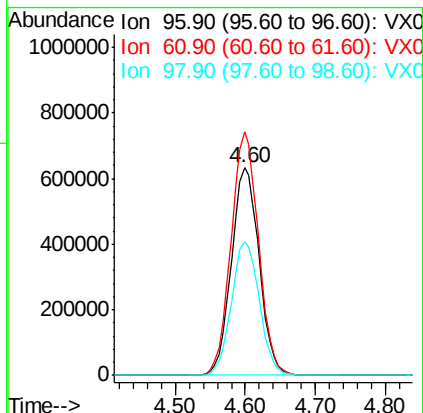
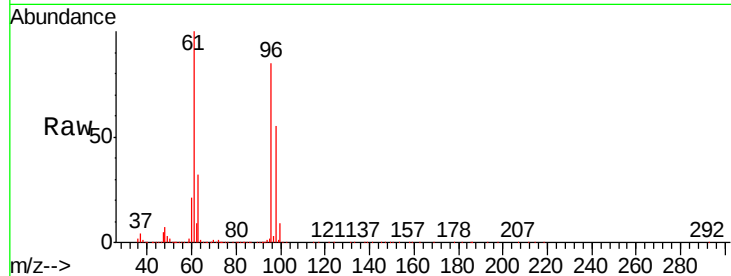


#27

cis-1,2-Dichloroethene
Concen: 242.172 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX006896.D
Acq: 03 Jan 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
S32-0646

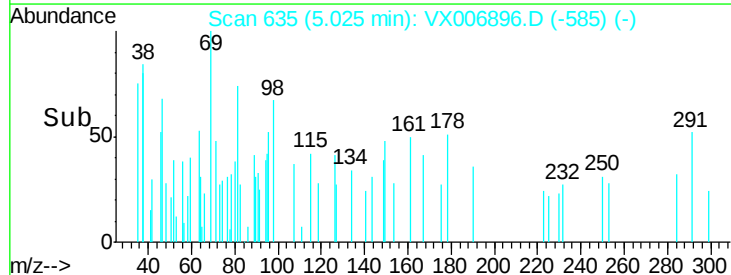
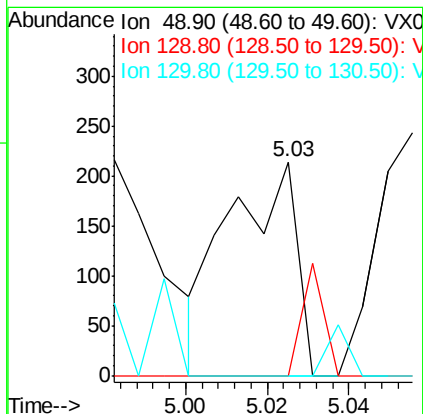
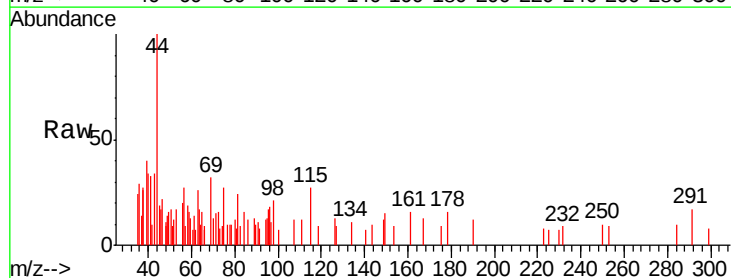
Tgt Ion: 96 Resp: 1742121
Ion Ratio Lower Upper
96 100
61 116.2 0.0 258.6
98 65.0 0.0 132.0

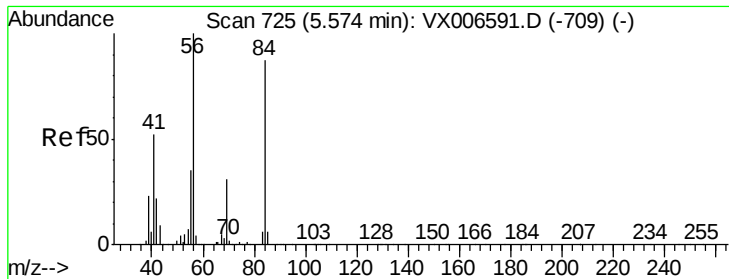


#28

Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006896.D
Acq: 03 Jan 2019 15:52

Tgt Ion: 49 Resp: 247
Ion Ratio Lower Upper
49 100
129 16.6 0.0 5.4#
130 7.7 77.7 116.5#

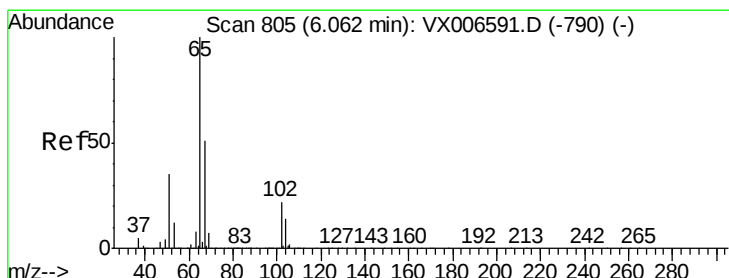
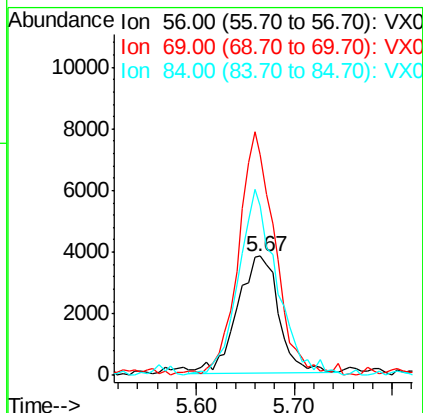
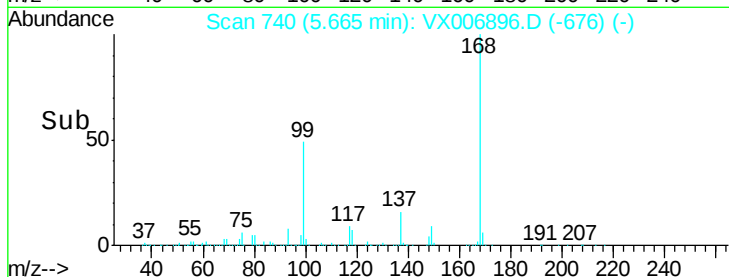
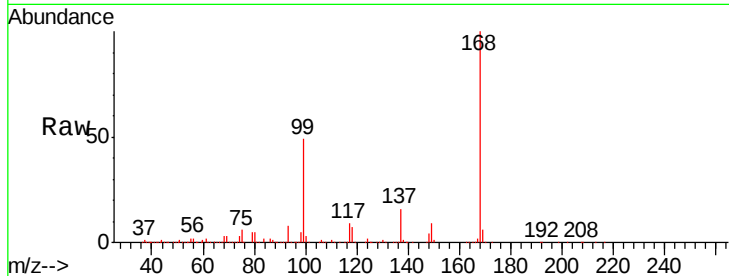




#31
Cyclohexane
Concen: 1.138 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX006896.D
Acq: 03 Jan 2019 15:52

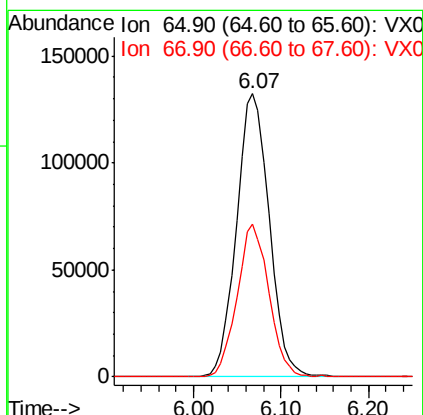
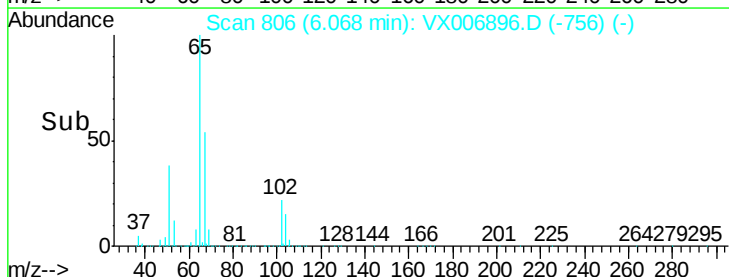
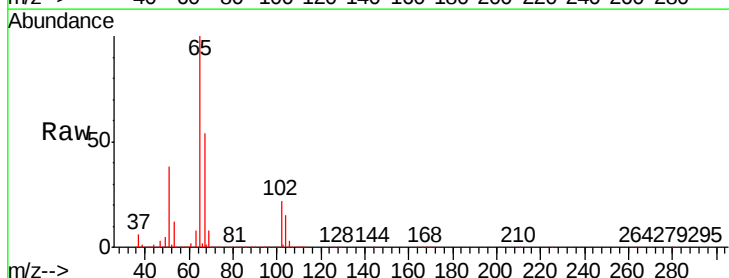
Instrument :
MSVOA_X
ClientSampleId :
S32-0646

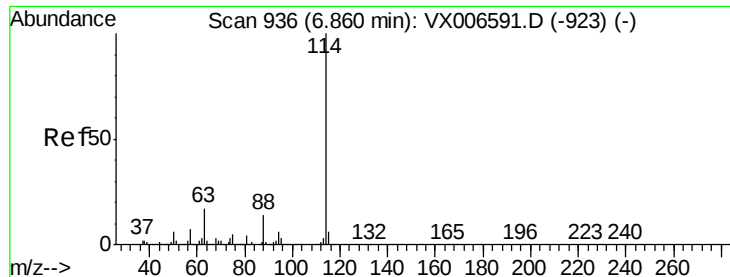
Tgt Ion: 56 Resp: 11185
Ion Ratio Lower Upper
56 100
69 186.9 24.4 36.6#
84 144.7 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.529 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006896.D
Acq: 03 Jan 2019 15:52

Tgt Ion: 65 Resp: 344476
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

S32-0646

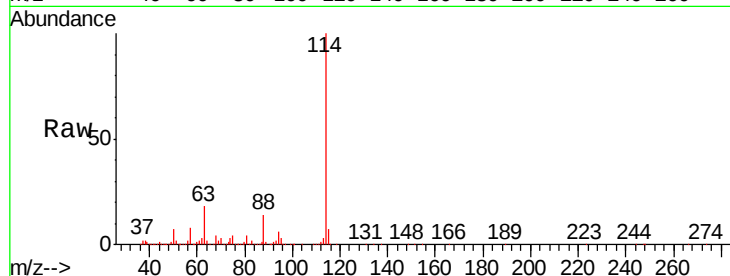
Tgt Ion:114 Resp: 996657

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

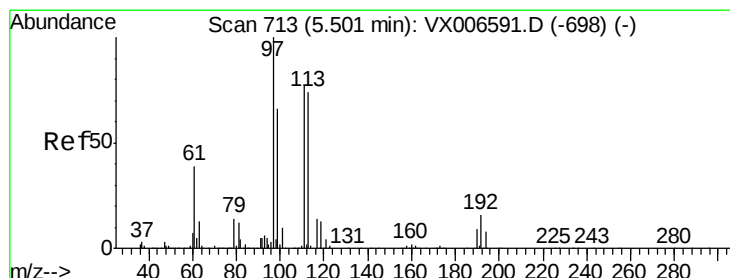
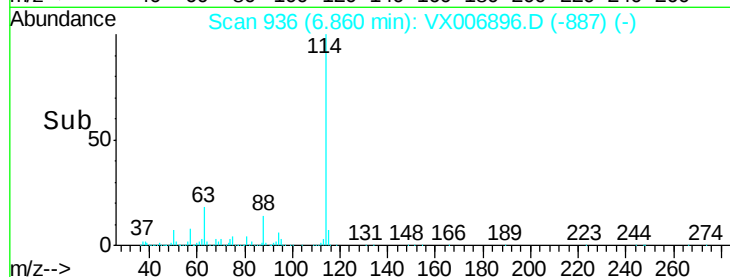
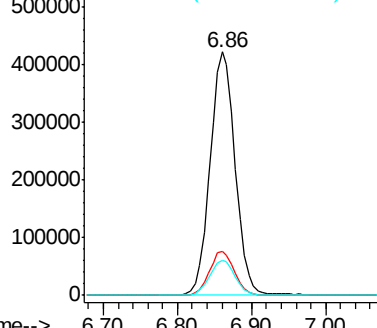
88 14.3 0.0 28.8



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: 47.844 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

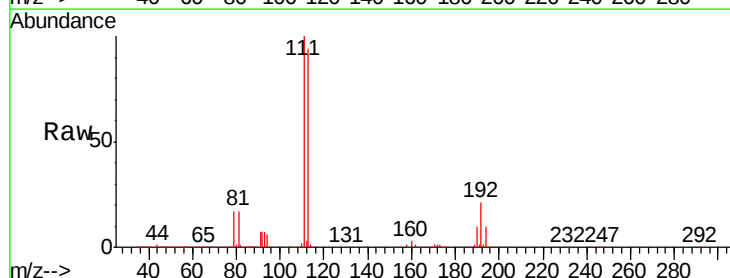
Tgt Ion:113 Resp: 301542

Ion Ratio Lower Upper

113 100

111 102.9 81.6 122.4

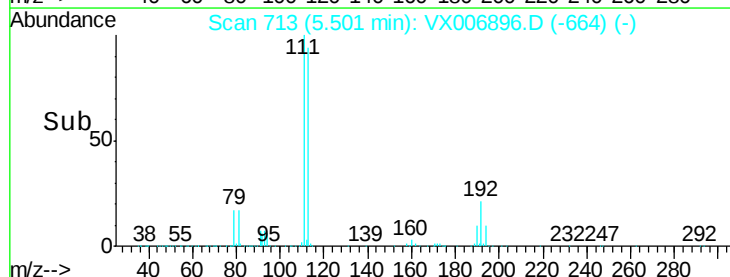
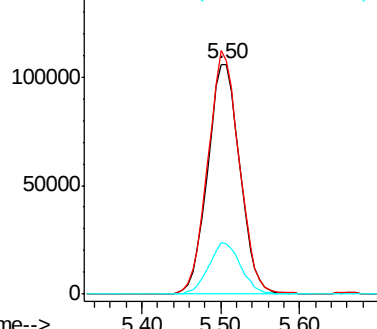
192 22.3 16.7 25.1

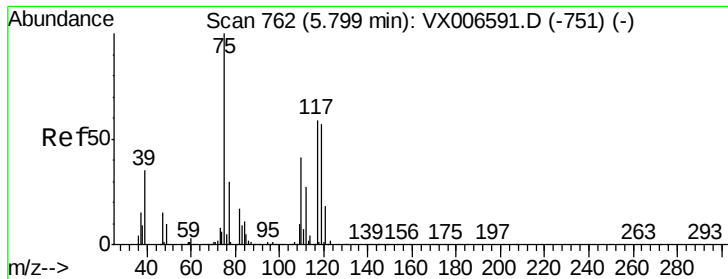


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.150 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

S32-0646

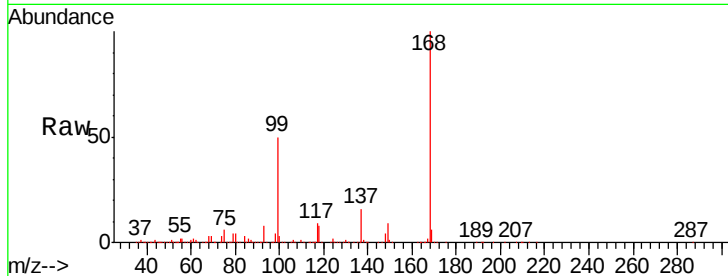
Tgt Ion: 75 Resp: 42513

Ion Ratio Lower Upper

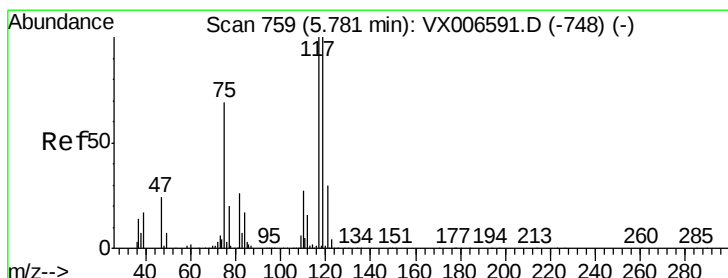
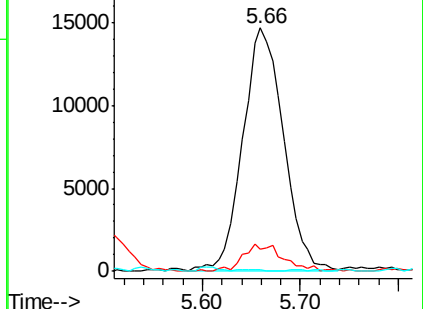
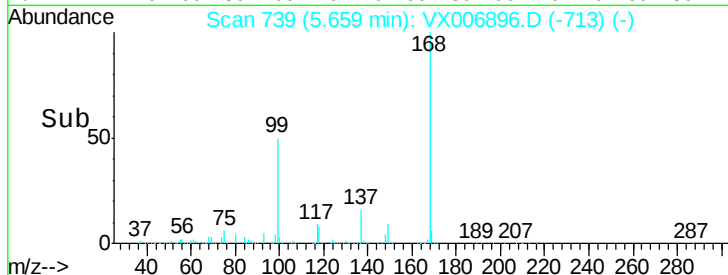
75 100

110 11.1 20.2 60.5#

77 0.5 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX006896.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 7.374 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

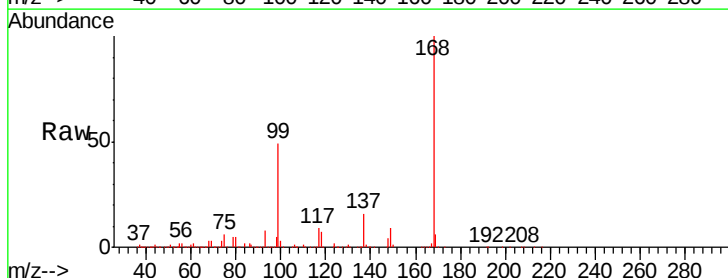
Tgt Ion: 117 Resp: 59158

Ion Ratio Lower Upper

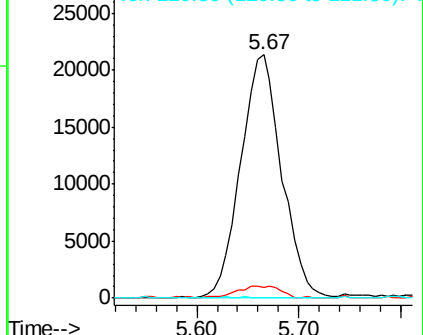
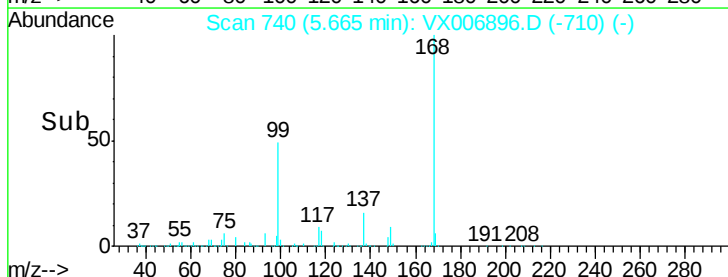
117 100

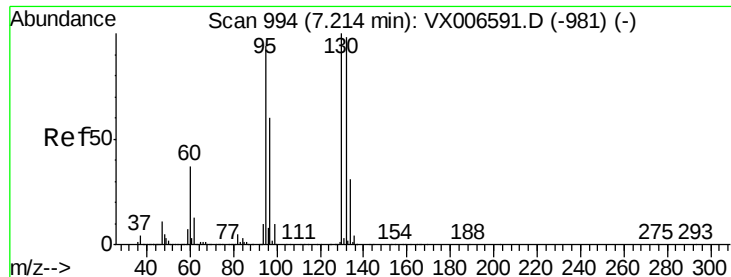
119 4.1 79.4 119.2#

121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): VX006896.D (-710) (-)





#44

Trichloroethene

Concen: 8.782 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

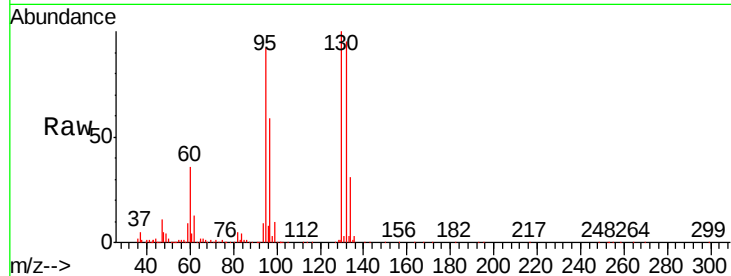
S32-0646

Tgt Ion:130 Resp: 66693

Ion Ratio Lower Upper

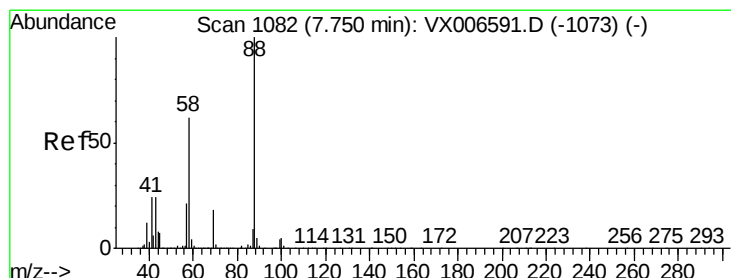
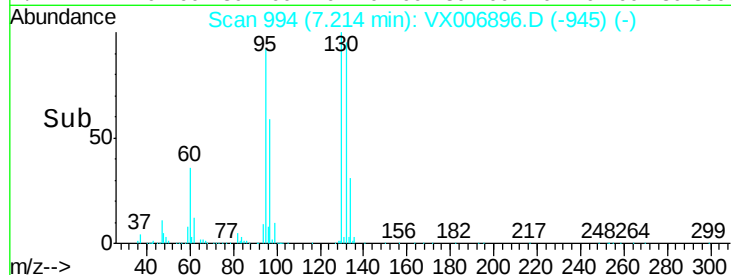
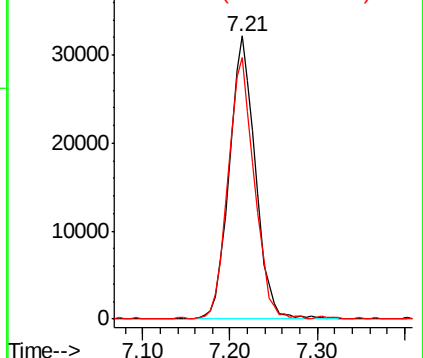
130 100

95 92.2 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.78 min Scan# 1087

Delta R.T. 0.03 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

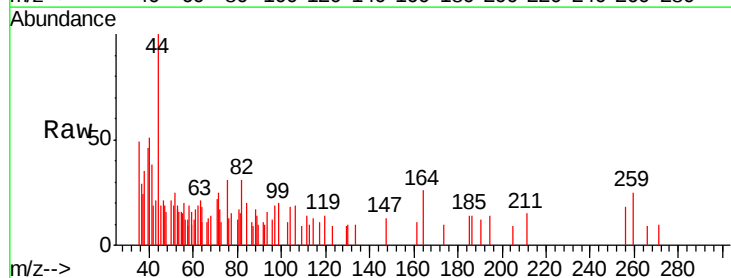
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 223.6 22.2 33.4#

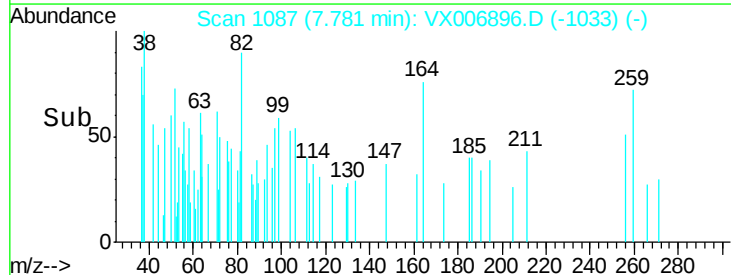
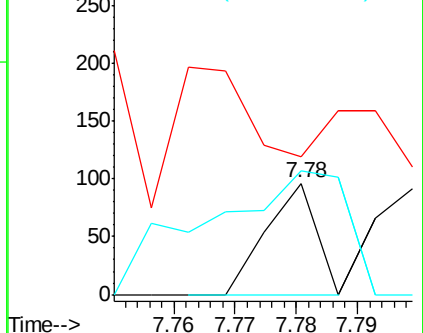
58 310.9 51.0 76.4#

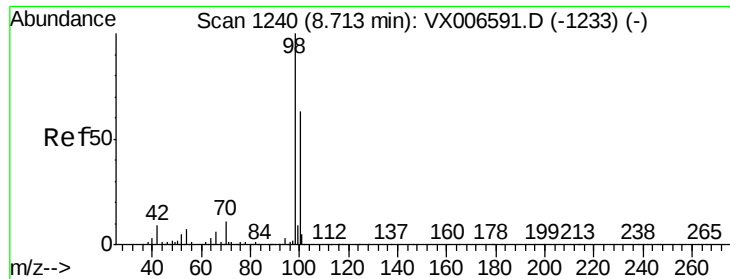


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.287 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

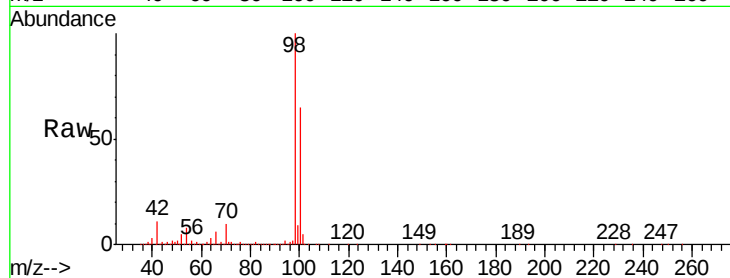
S32-0646

Tgt Ion: 98 Resp: 1171133

Ion Ratio Lower Upper

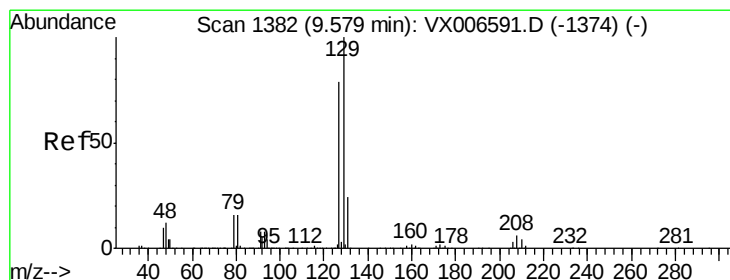
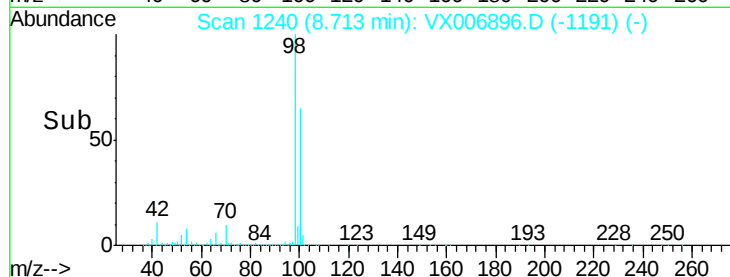
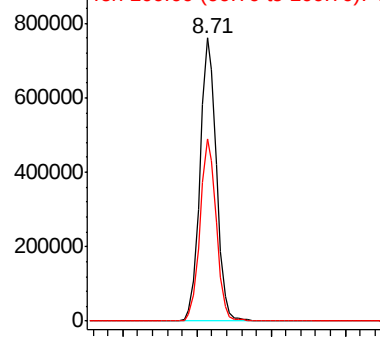
98 100

100 63.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.328 ug/l

RT: 9.62 min Scan# 1388

Delta R.T. 0.04 min

Lab File: VX006896.D

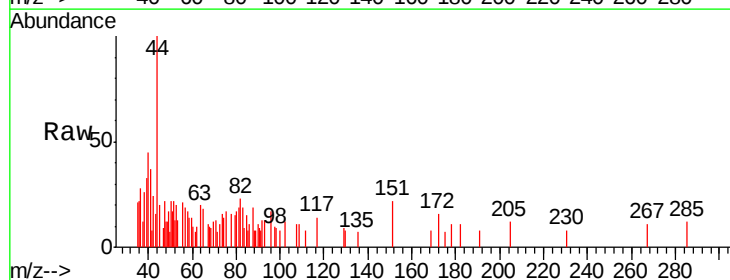
Acq: 03 Jan 2019 15:52

Tgt Ion: 129 Resp: 25

Ion Ratio Lower Upper

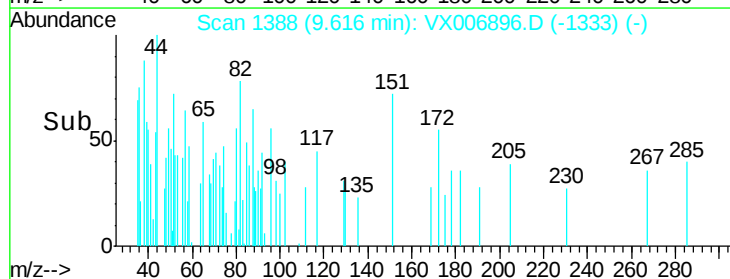
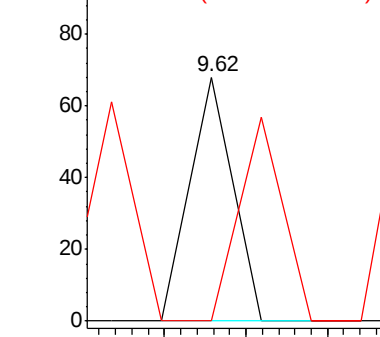
129 100

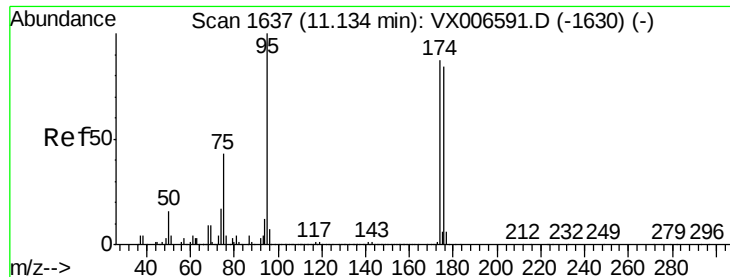
127 84.0 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 47.832 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

S32-0646

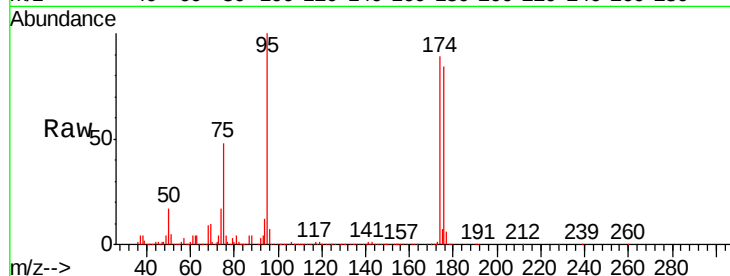
Tgt Ion: 95 Resp: 416256

Ion Ratio Lower Upper

95 100

174 93.4 0.0 182.2

176 88.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0

11.13

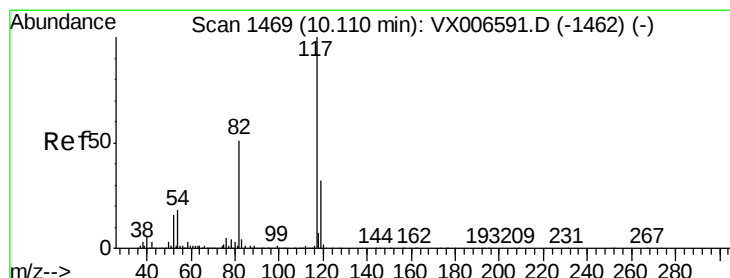
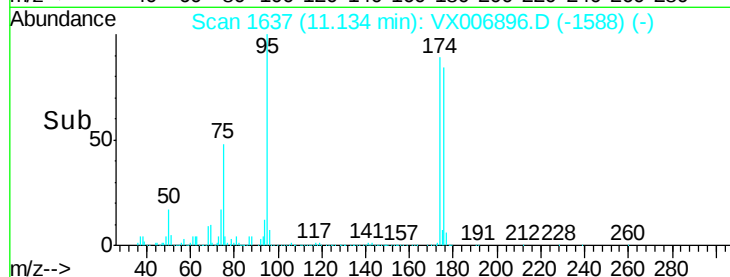
300000

200000

100000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

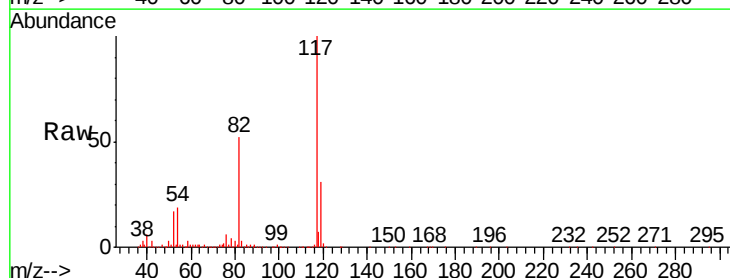
Tgt Ion: 117 Resp: 914784

Ion Ratio Lower Upper

117 100

82 51.9 41.0 61.6

119 31.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

10.11

800000

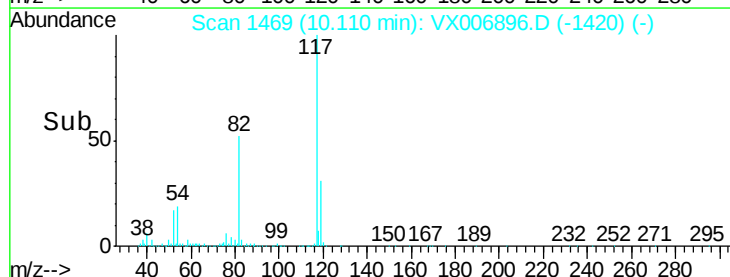
600000

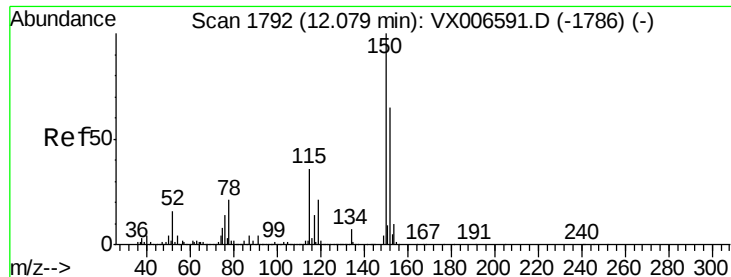
400000

200000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

S32-0646

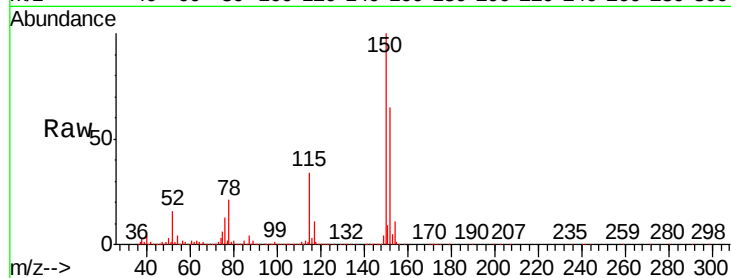
Tgt Ion:152 Resp: 440212

Ion Ratio Lower Upper

152 100

115 55.1 39.1 117.2

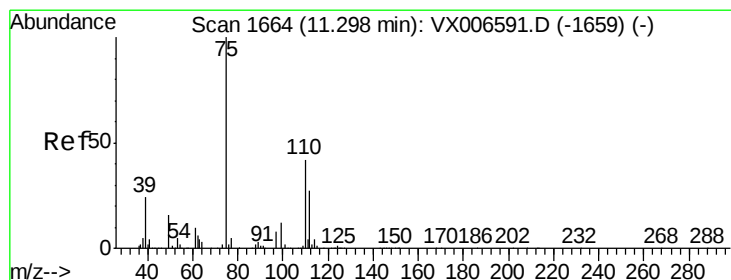
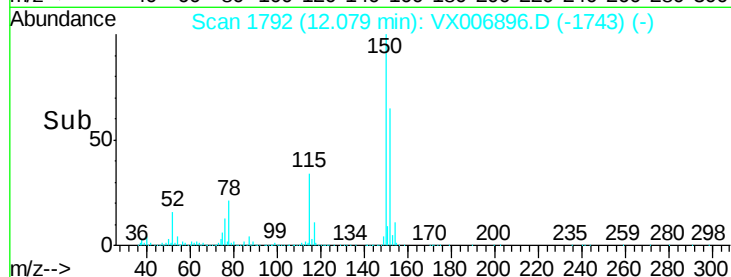
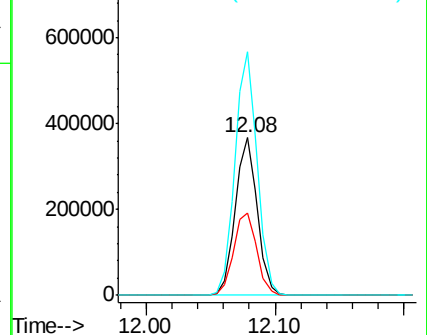
150 156.3 0.0 344.8



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: 23.999 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006896.D

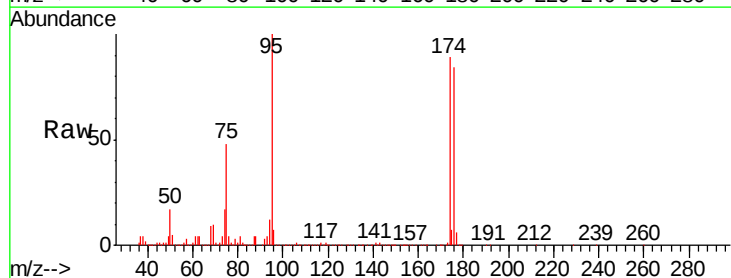
Acq: 03 Jan 2019 15:52

Tgt Ion: 75 Resp: 196338

Ion Ratio Lower Upper

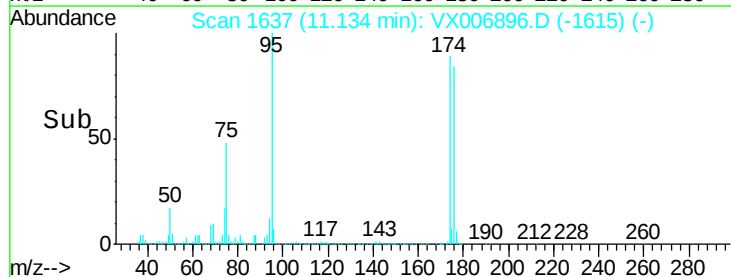
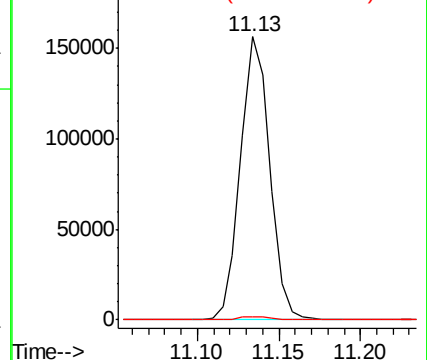
75 100

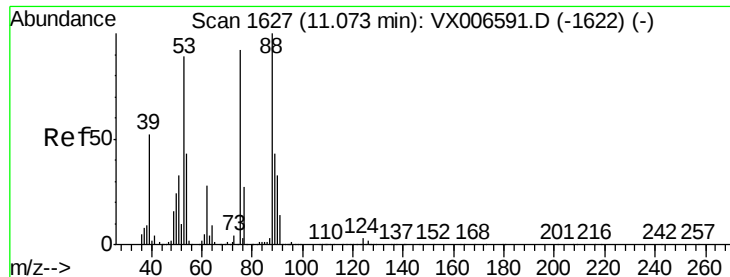
77 1.3 18.5 55.5#



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: 71.087 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006896.D

Acq: 03 Jan 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

S32-0646

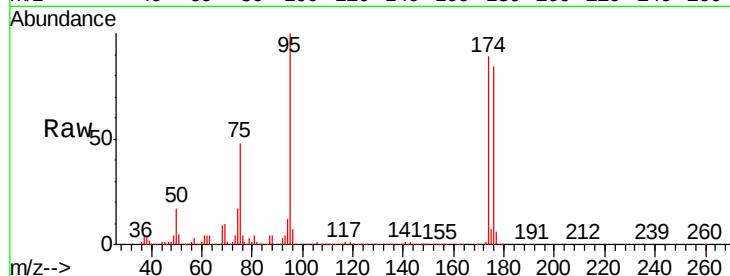
Tgt Ion: 75 Resp: 196338

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

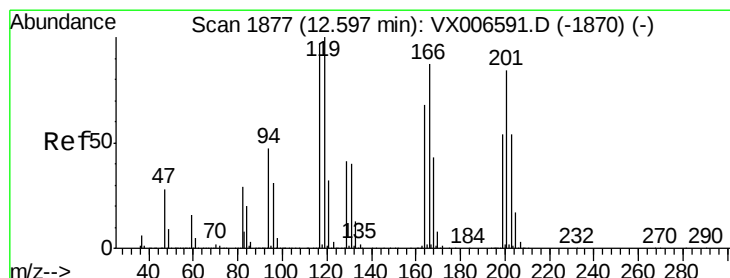
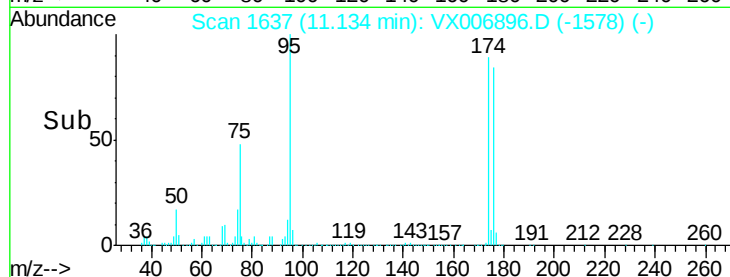
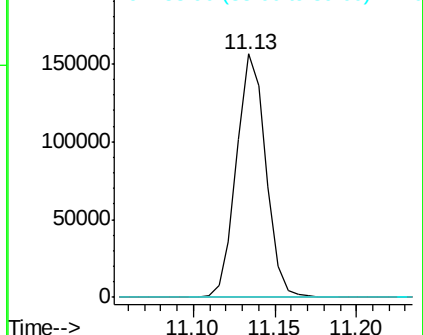
89 0.1 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.329 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006896.D

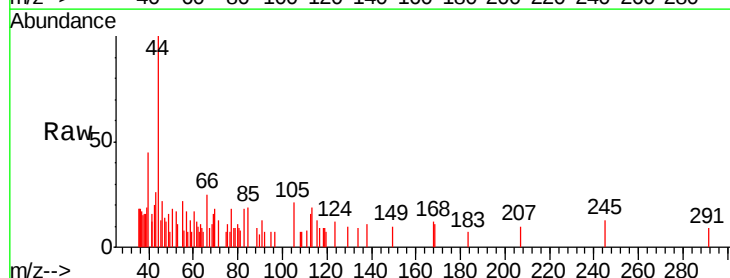
Acq: 03 Jan 2019 15:52

Tgt Ion: 117 Resp: 160

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

