

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009614.D
 Acq On : 16 May 2019 17:55
 Operator : JC/SP
 Sample : K2866-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-22-S

Quant Time: May 17 06:39:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	169103	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	273328	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	103000	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	114099	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	5.50	113	83481	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	8.71	98	343915	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	11.13	95	112787	44.75	ug/l	0.00
Spiked Amount			Recovery	=	89.50%	

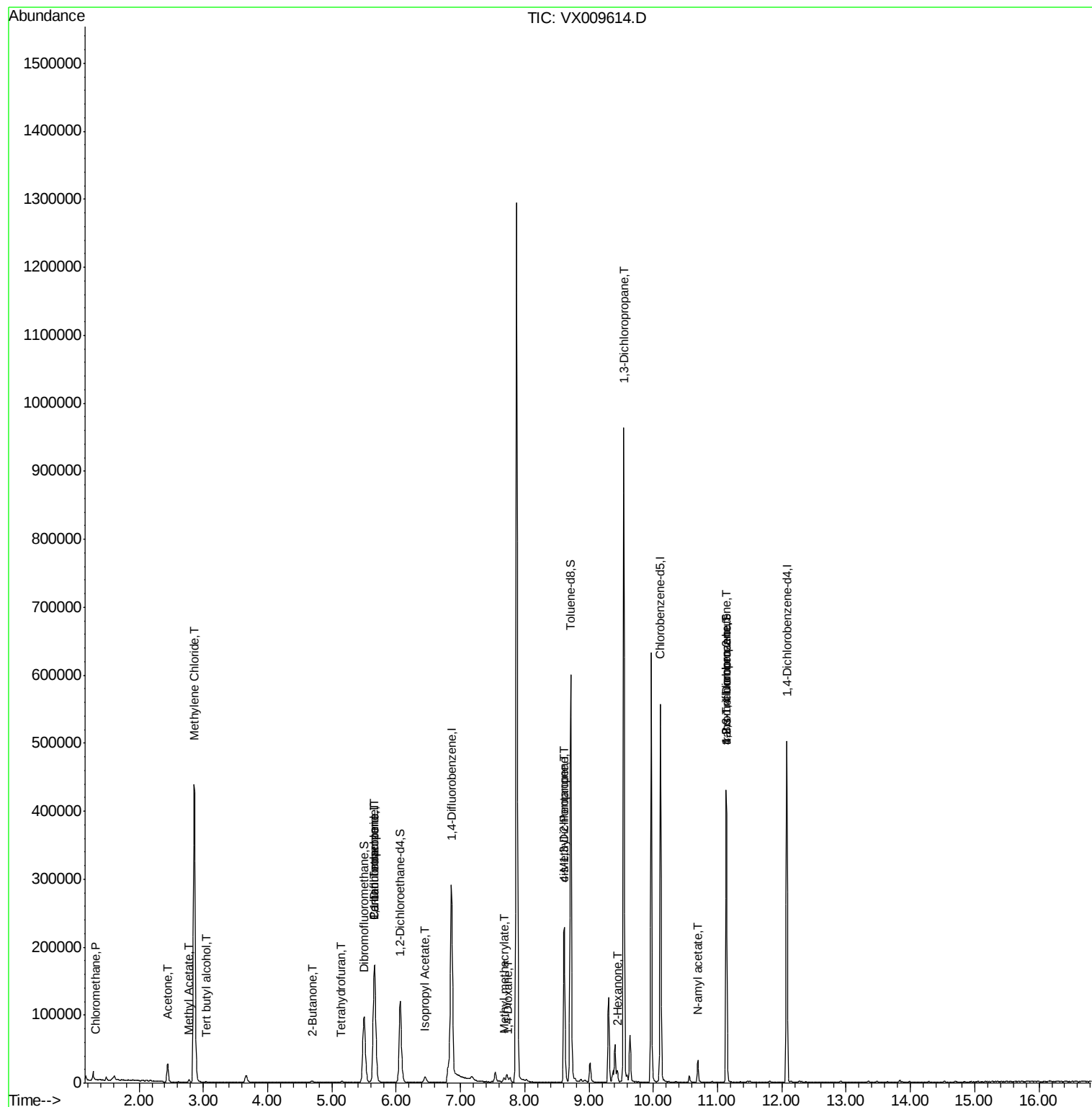
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	500	0.235	ug/l #	55
11) Tert butyl alcohol	3.05	59	757	1.417	ug/l #	86
16) Acetone	2.45	43	30681	24.752	ug/l	99
18) Methyl Acetate	2.78	43	4536	1.539	ug/l	95
20) Methylene Chloride	2.85	84	198836	99.071	ug/l	96
25) 2-Butanone	4.68	43	4607	2.392	ug/l #	83
28) Bromochloromethane	5.03	49	73	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	1412	1.139	ug/l #	66
36) 1,1-Dichloropropene	5.67	75	13068	5.145	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16168	7.006	ug/l #	15
43) Isopropyl Acetate	6.45	43	12227	2.160	ug/l	98
48) Methyl methacrylate	7.68	41	7519	2.677	ug/l #	18
49) 1,4-Dioxane	7.74	88	50	0.878	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	82736	22.360	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	34167	10.604	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	7548	2.200	ug/l #	43
59) 2-Hexanone	9.44	43	11145	3.835	ug/l #	26
74) N-amyl acetate	10.69	43	8423	1.929	ug/l #	58
76) 1,2,3-Trichloropropane	11.13	75	58023	24.285	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	58023	62.137	ug/l #	10

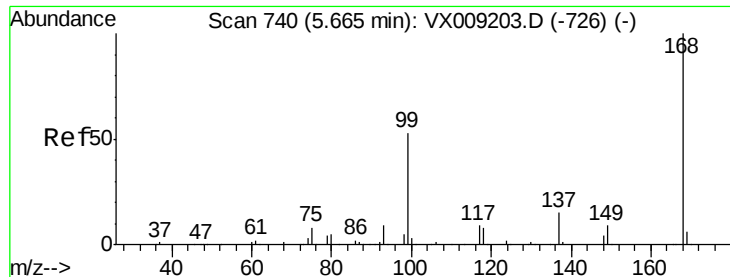
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

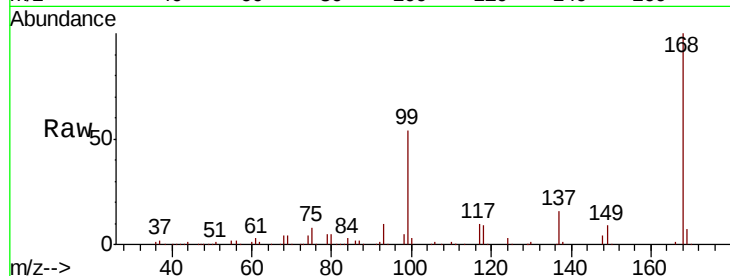
TP-22-S

Tot Ion:168 Resp: 169103

Ion Ratio Lower Upper

168 100

99 54.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

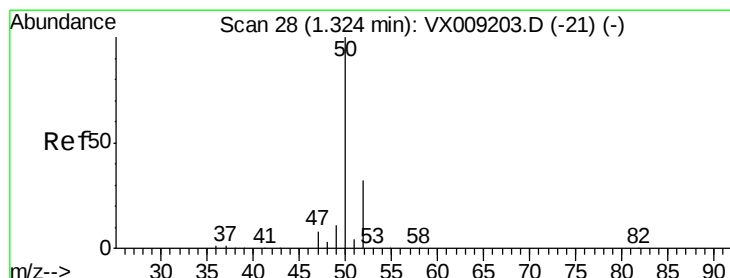
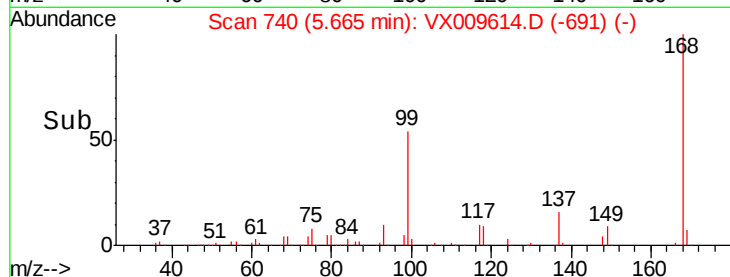
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009614.D

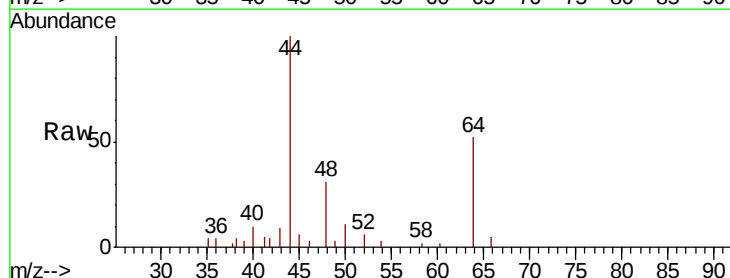
Acq: 16 May 2019 17:55

Tgt Ion: 50 Resp: 500

Ion Ratio Lower Upper

50 100

52 57.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

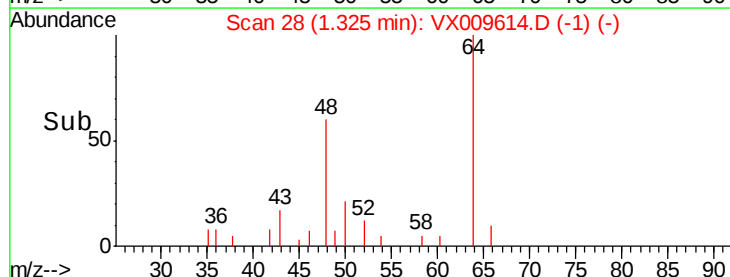
150

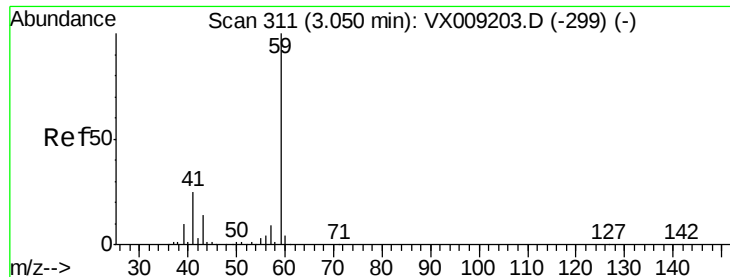
100

50

0

Time--> 1.30 1.35

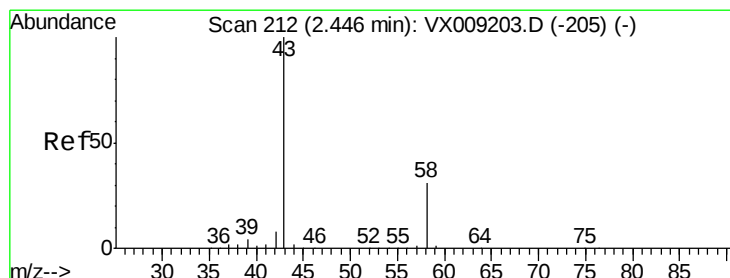
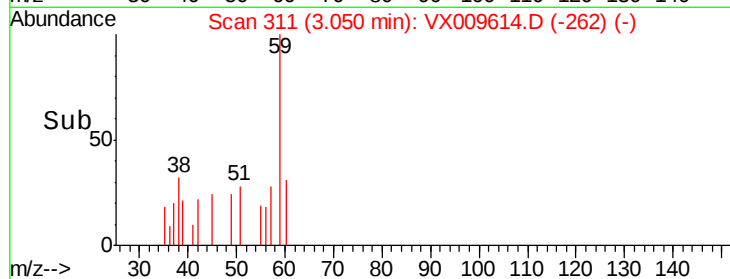
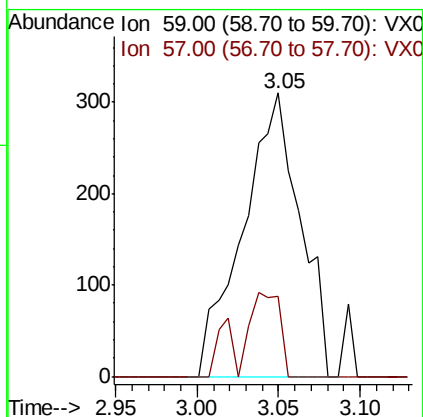
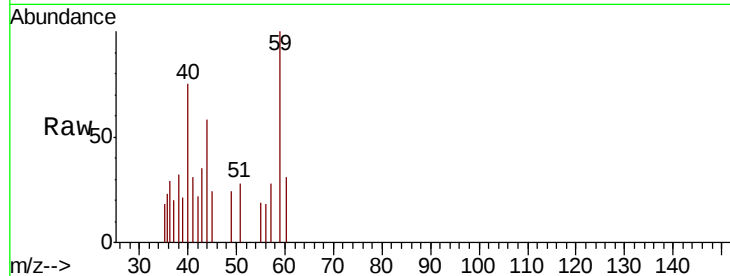




#11
Tert butyl alcohol
Concen: 1.417 ug/l
RT: 3.05 min Scan# 311
Delta R.T. 0.00 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

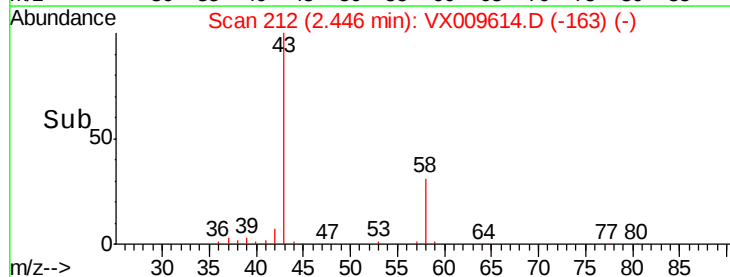
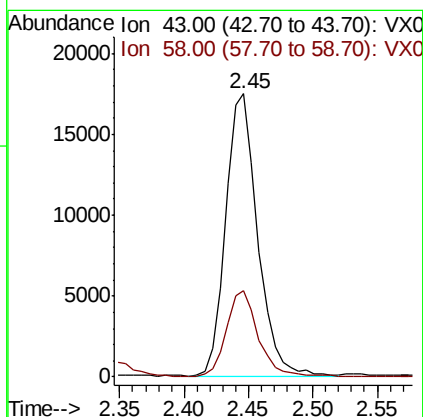
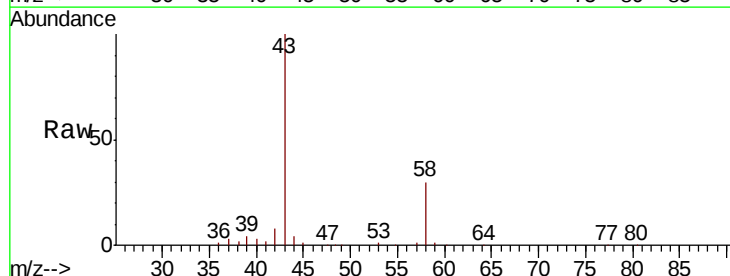
Instrument :
MSVOA_X
ClientSampled :
TP-22-S

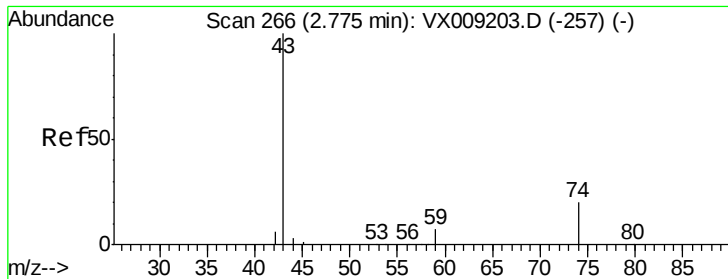
Tot Ion: 59 Resp: 757
Ion Ratio Lower Upper
59 100
57 15.5 8.2 12.2#



#16
Acetone
Concen: 24.752 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

Tgt Ion: 43 Resp: 30681
Ion Ratio Lower Upper
43 100
58 30.5 24.9 37.3

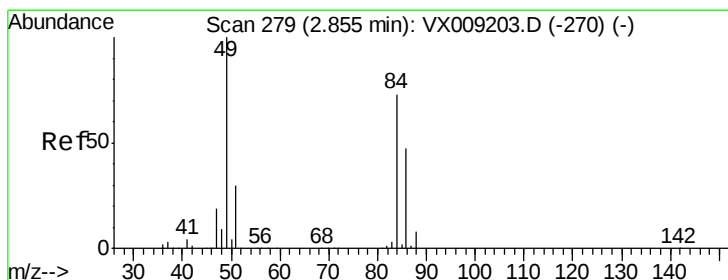
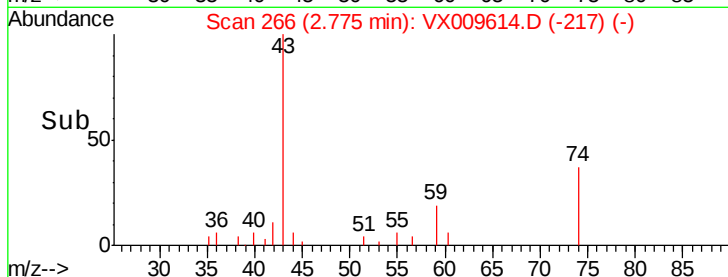
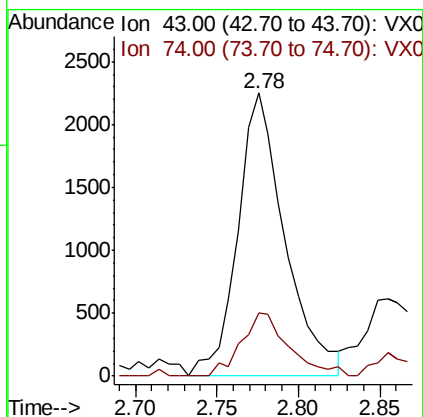
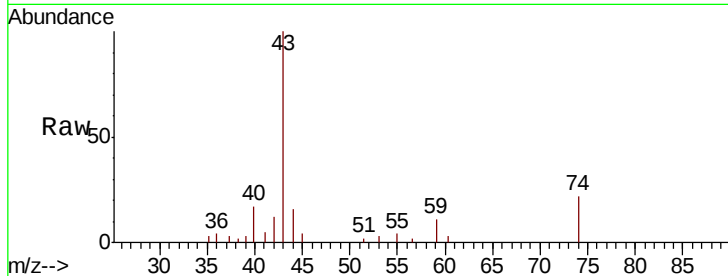




#18
Methvl Acetate
Concen: 1.539 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

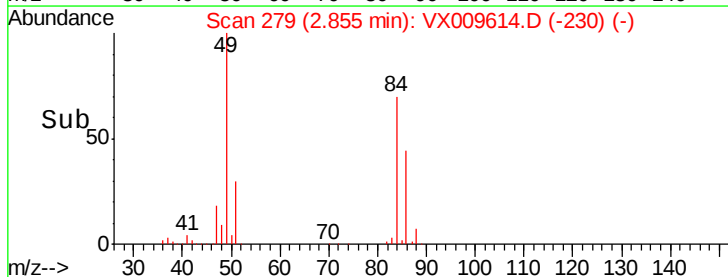
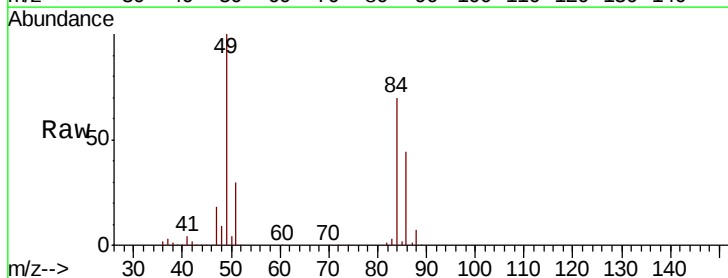
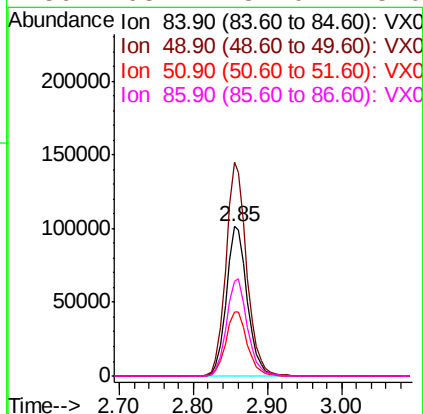
Instrument :
MSVOA_X
ClientSampled :
TP-22-S

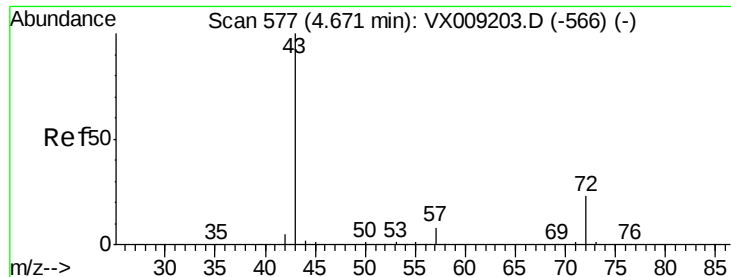
Tot Ion: 43 Resp: 4536
Ion Ratio Lower Upper
43 100
74 22.6 16.2 24.4



#20
Methylene Chloride
Concen: 99.071 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

Tgt Ion: 84 Resp: 198836
Ion Ratio Lower Upper
84 100
49 142.8 109.9 164.9
51 43.2 32.7 49.1
86 63.2 52.0 78.0





#25

2-Butanone

Concen: 2.392 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Instrument :

MSVOA_X

ClientSampled :

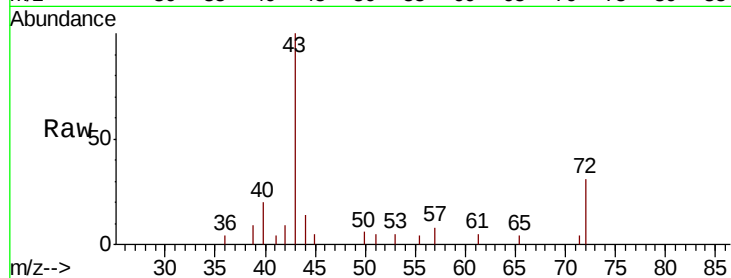
TP-22-S

Tot Ion: 43 Resp: 4607

Ion Ratio Lower Upper

43 100

72 31.1 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

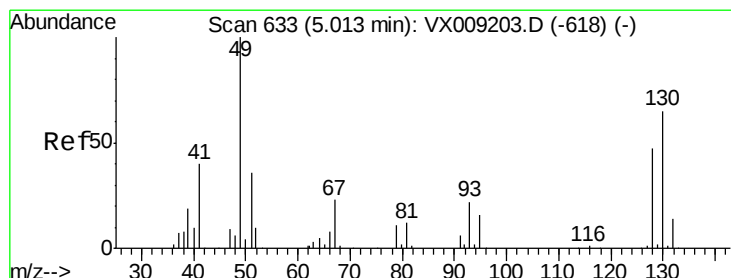
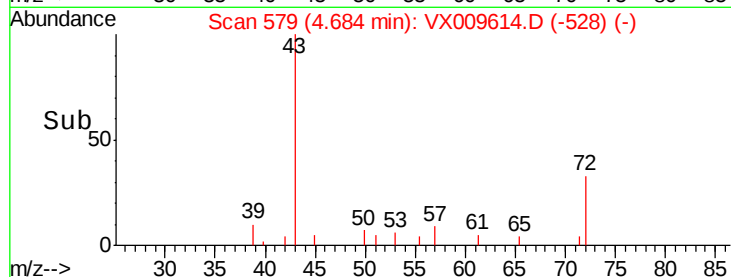
1500

1000

500

0

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

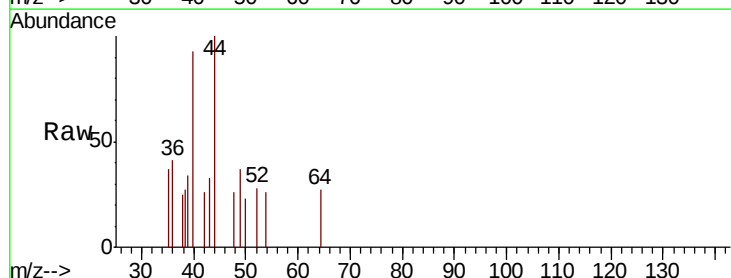
Tgt Ion: 49 Resp: 73

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

100

80

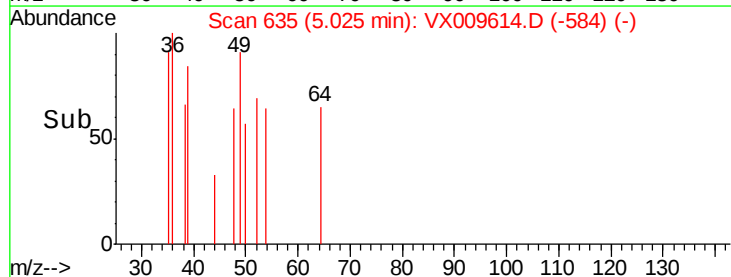
60

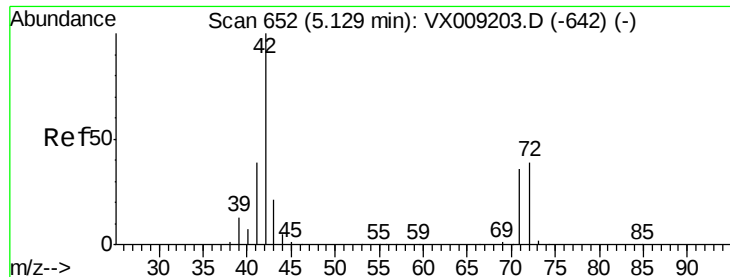
40

20

0

Time-->

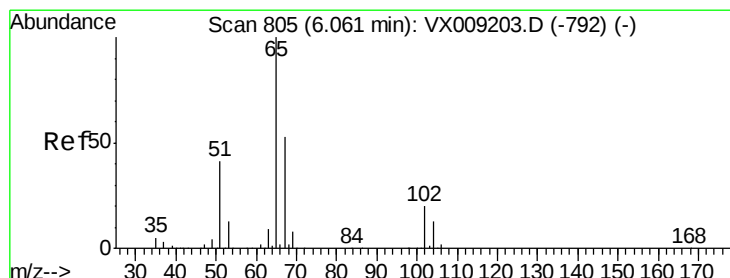
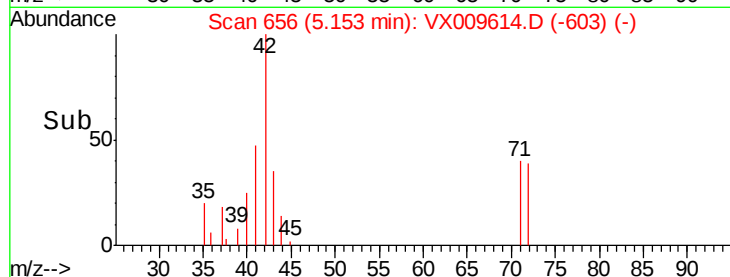
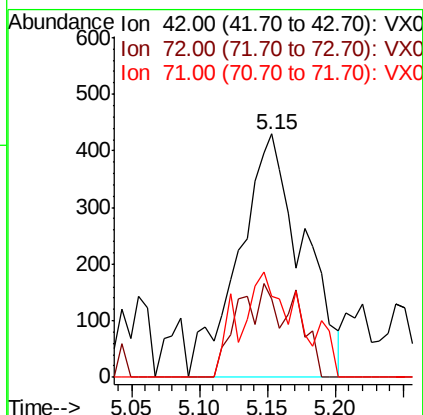
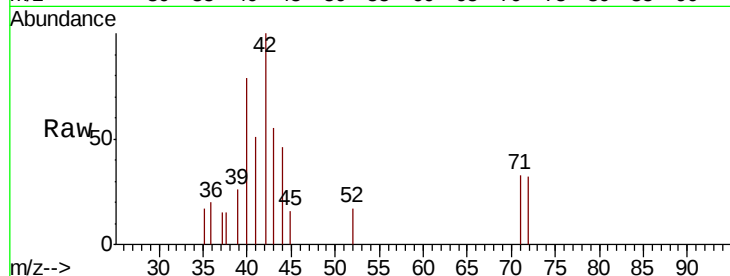




#29
Tetrahydrofuran
Concen: 1.139 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

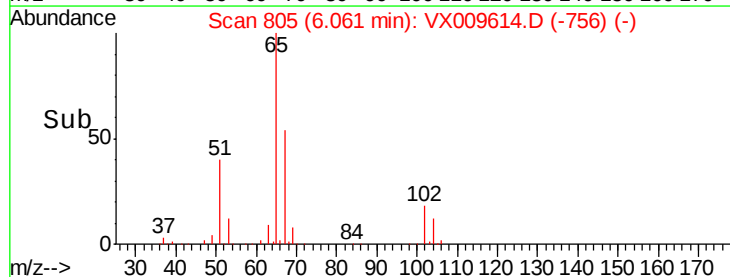
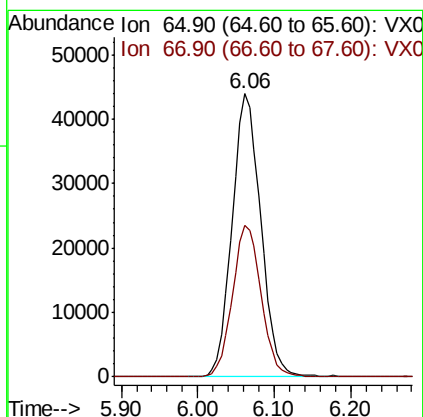
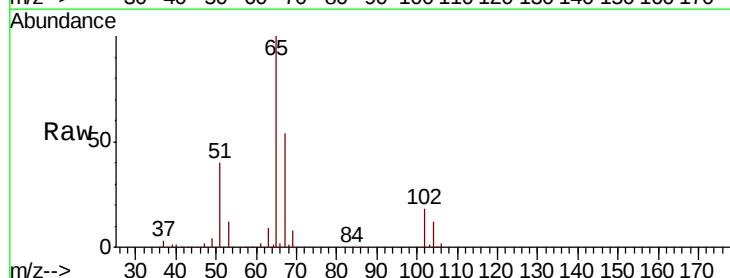
Instrument :
MSVOA_X
ClientSampleId :
TP-22-S

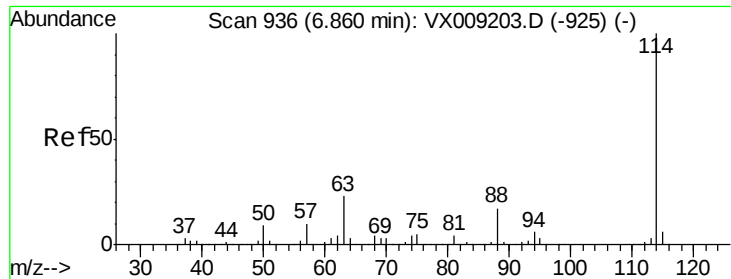
Tot Ion: 42 Resp: 1412
Ion Ratio Lower Upper
42 100
72 13.0 30.4 45.6#
71 20.4 28.6 43.0#



#33
1,2-Dichloroethane-d4
Concen: 49.427 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

Tgt Ion: 65 Resp: 114099
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.6

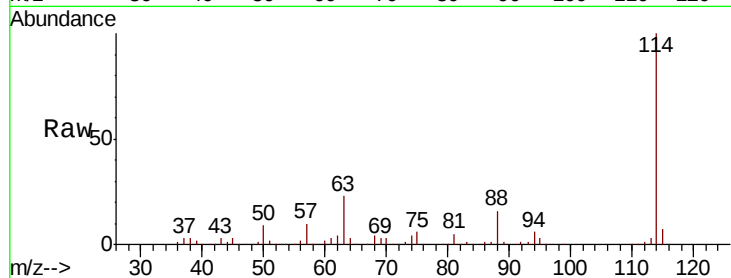




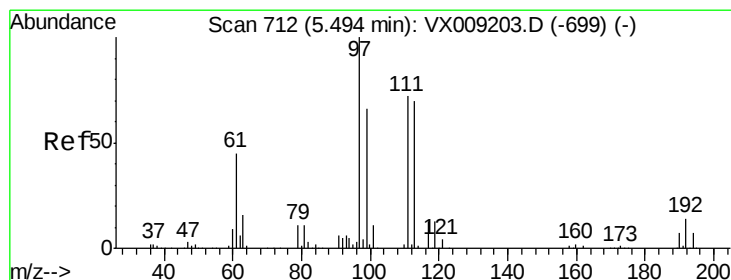
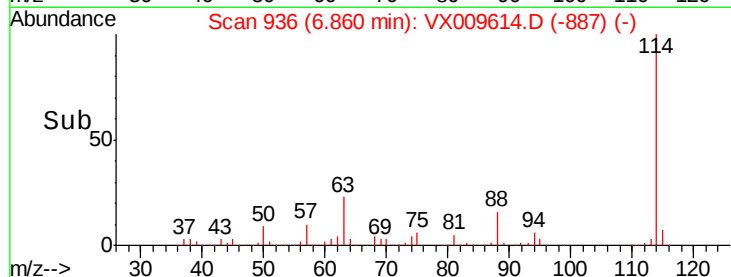
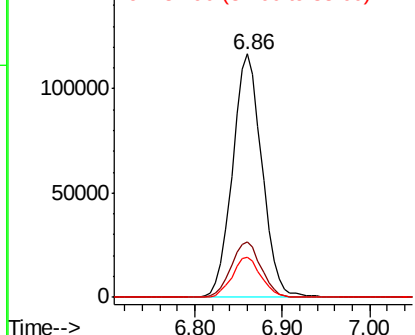
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

Instrument :
MSVOA_X
ClientSampleId :
TP-22-S

Tot Ion:114 Resp: 273328
Ion Ratio Lower Upper
114 100
63 22.6 0.0 45.6
88 16.5 0.0 33.2

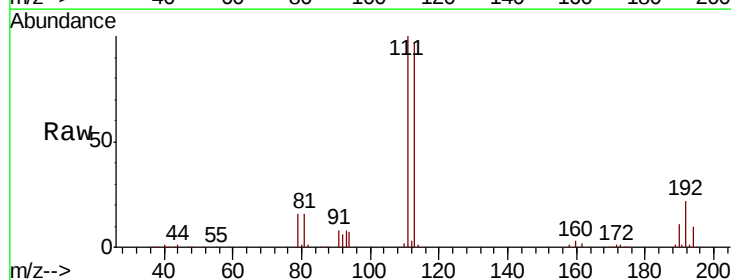


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

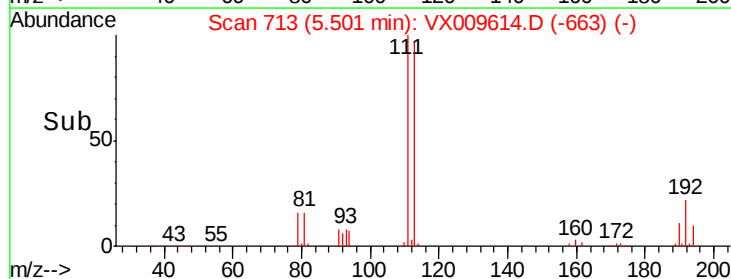
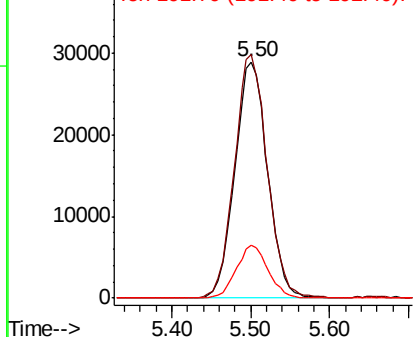


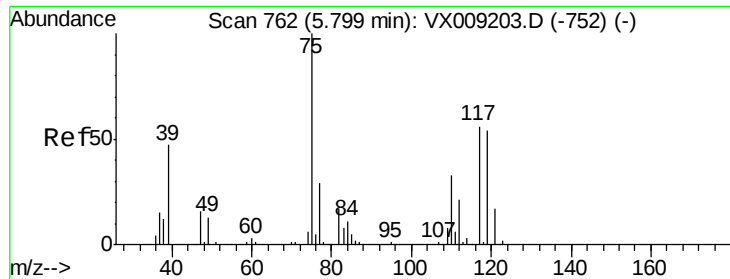
#35
Dibromofluoromethane
Concen: 48.585 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

Tgt Ion:113 Resp: 83481
Ion Ratio Lower Upper
113 100
111 103.0 82.8 124.2
192 21.6 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: 5.145 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

TP-22-S

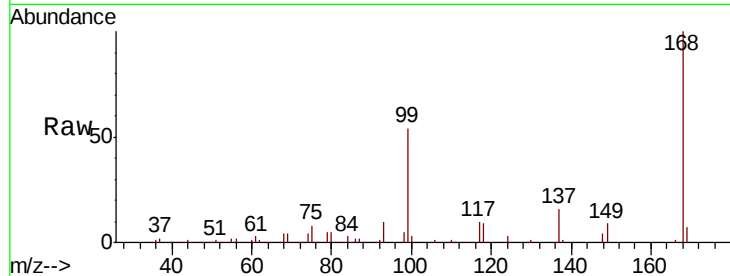
Tot Ion: 75 Resp: 13068

Ion Ratio Lower Upper

75 100

110 9.4 16.9 50.6#

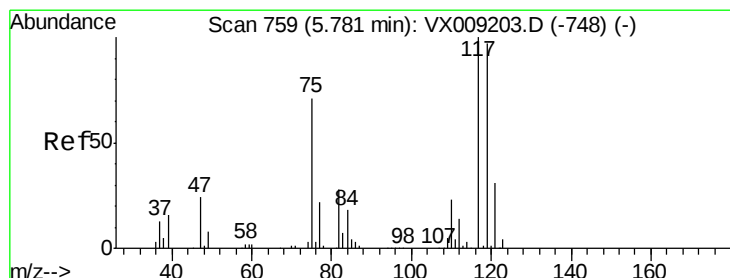
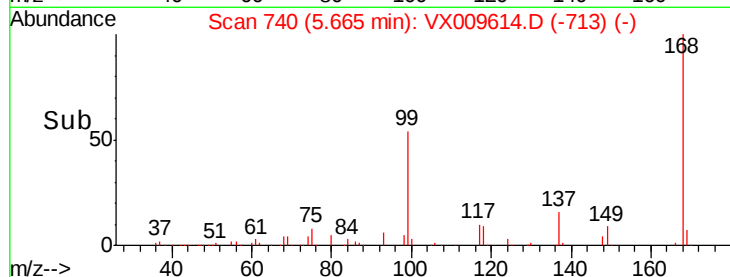
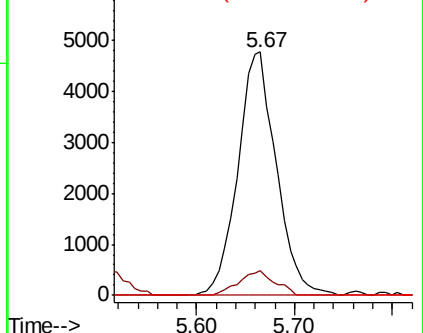
77 0.0 24.8 37.2#



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: 7.006 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

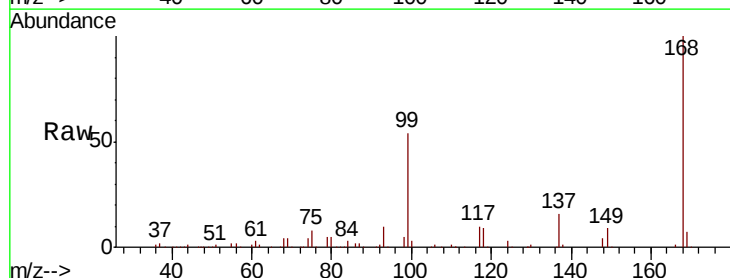
Tgt Ion: 117 Resp: 16168

Ion Ratio Lower Upper

117 100

119 4.1 77.5 116.3#

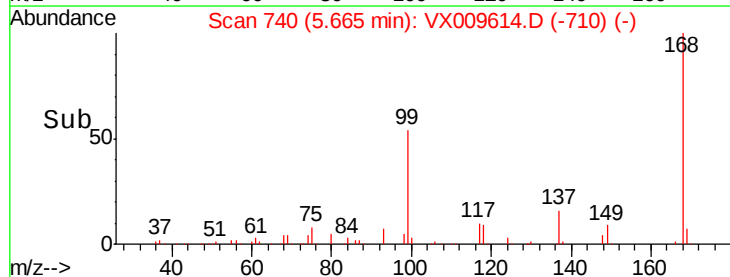
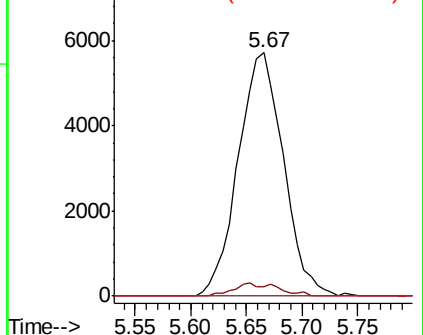
121 0.0 24.7 37.1#

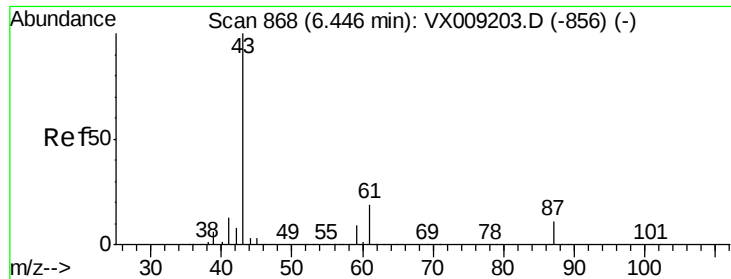


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



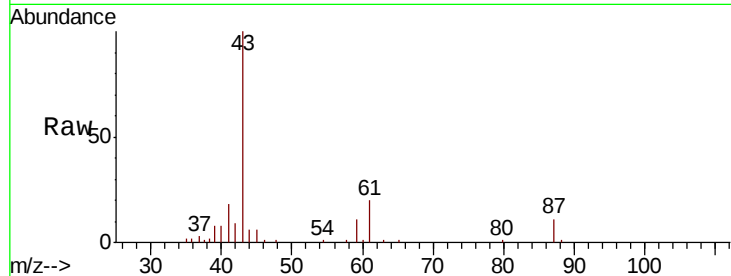


#43

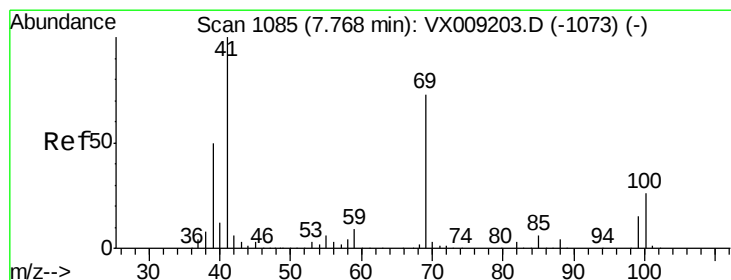
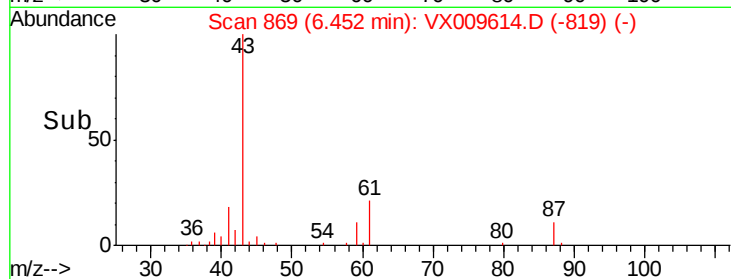
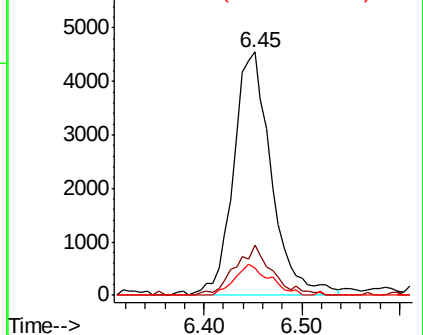
Isopropyl Acetate
 Concen: 2.160 ug/l
 RT: 6.45 min Scan# 869
 Delta R.T. 0.01 min
 Lab File: VX009614.D
 Acq: 16 May 2019 17:55

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-22-S

Tot Ion: 43 Resp: 12227
 Ion Ratio Lower Upper
 43 100
 61 20.1 15.1 22.7
 87 11.8 9.0 13.6



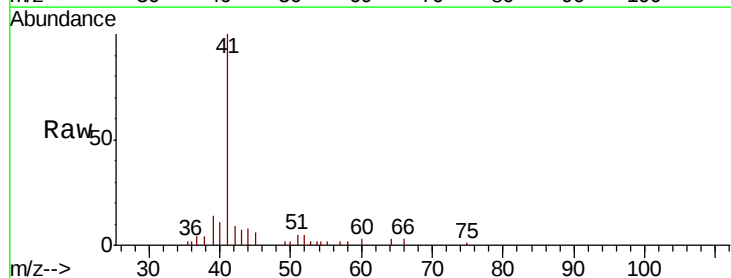
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



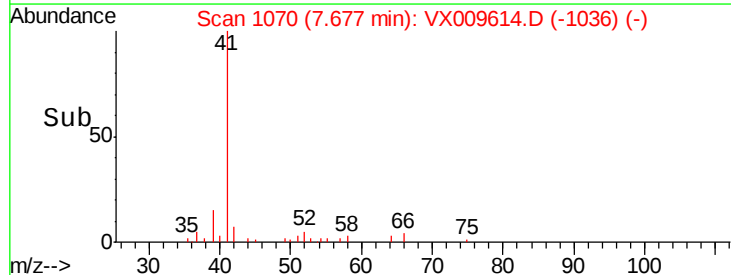
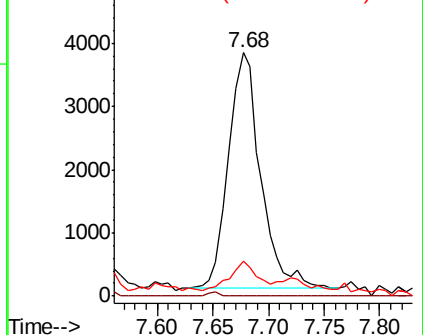
#48

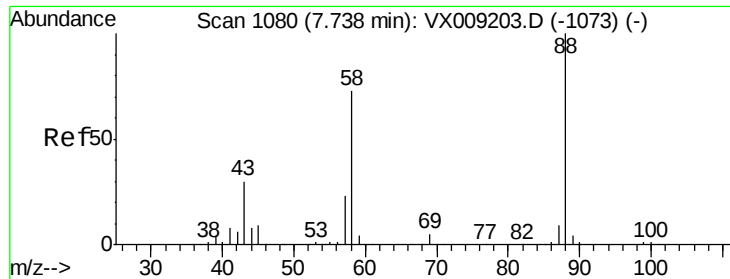
Methyl methacrylate
 Concen: 2.677 ug/l
 RT: 7.68 min Scan# 1070
 Delta R.T. -0.09 min
 Lab File: VX009614.D
 Acq: 16 May 2019 17:55

Tgt Ion: 41 Resp: 7519
 Ion Ratio Lower Upper
 41 100
 69 0.0 59.1 88.7#
 39 0.0 40.4 60.6#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

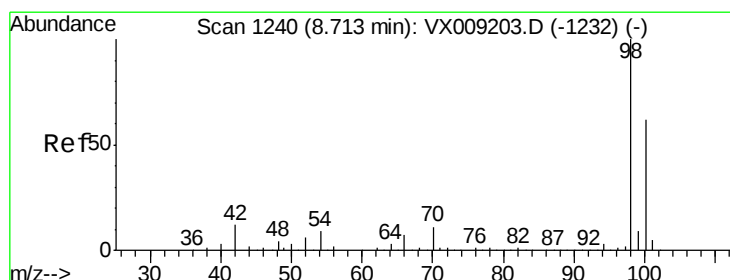
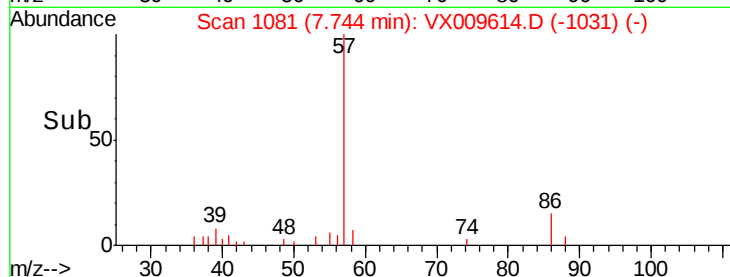
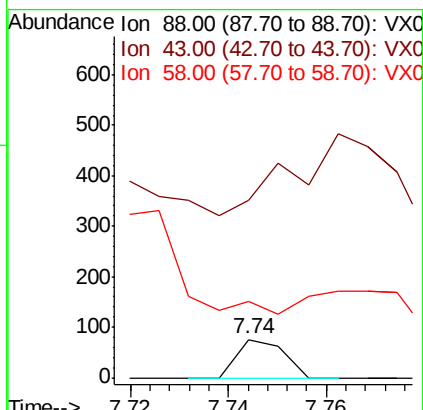
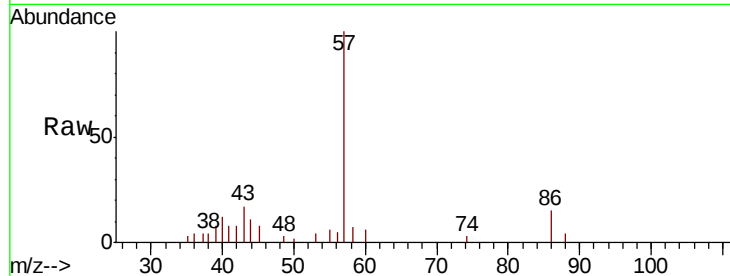




#49
1,4-Dioxane
Concen: 0.878 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

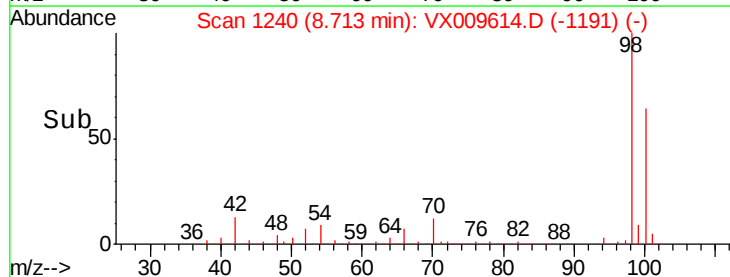
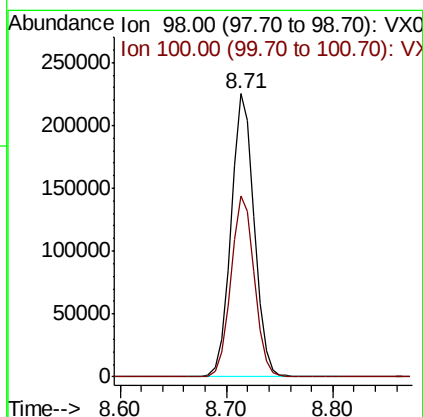
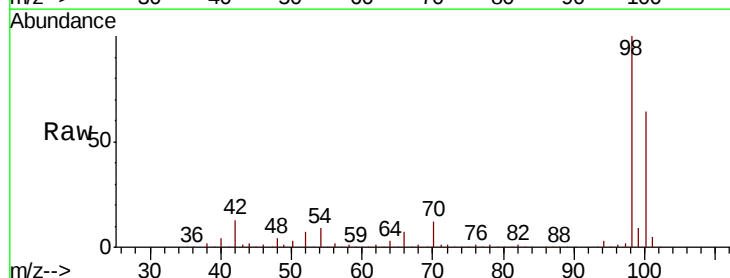
Instrument :
MSVOA_X
ClientSampleId :
TP-22-S

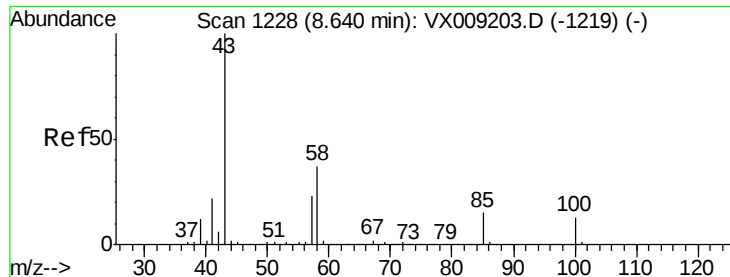
Tot Ion: 88 Resp: 50
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 1504.0 61.7 92.5#



#50
Toluene-d8
Concen: 49.577 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009614.D
Acq: 16 May 2019 17:55

Tgt Ion: 98 Resp: 343915
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 22.360 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.02 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Instrument :

MSVOA_X

ClientSampled :

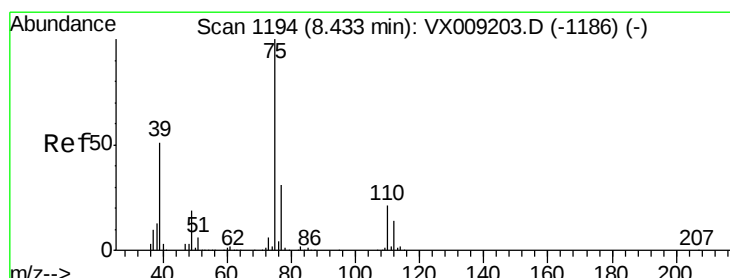
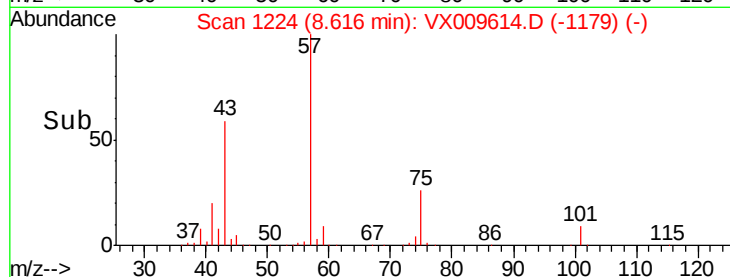
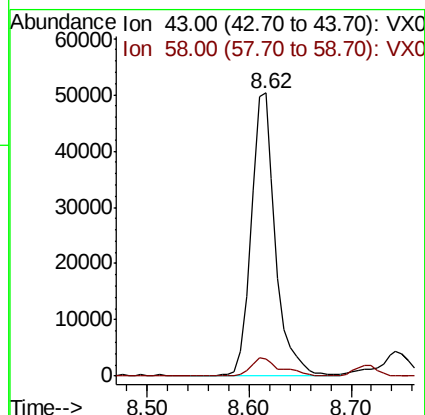
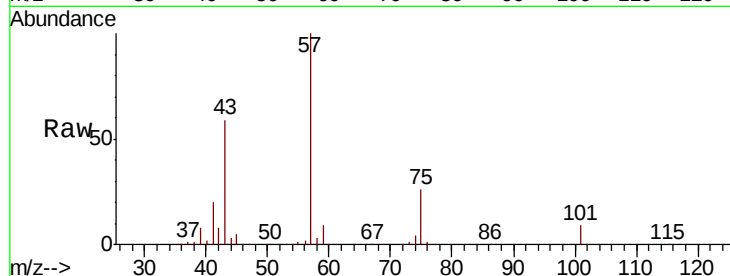
TP-22-S

Tot Ion: 43 Resp: 82736

Ion Ratio Lower Upper

43 100

58 8.0 29.5 44.3#



#54

cis-1,3-Dichloropropene

Concen: 10.604 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

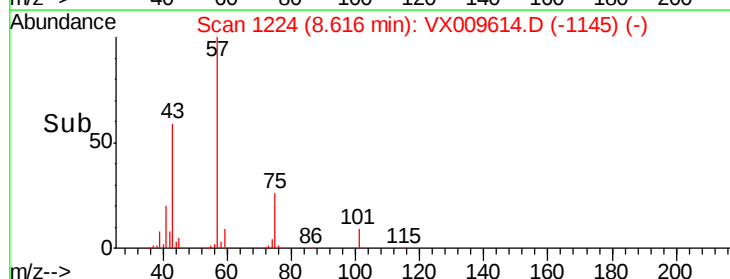
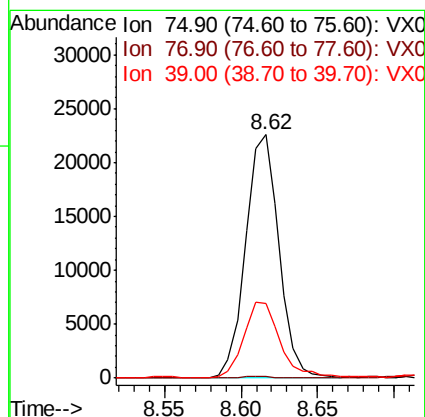
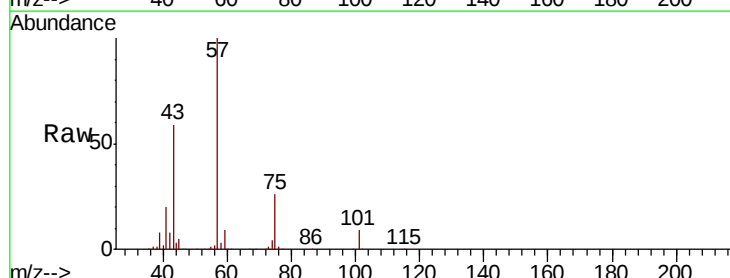
Tgt Ion: 75 Resp: 34167

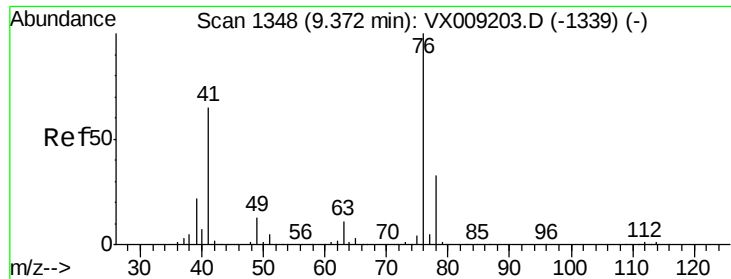
Ion Ratio Lower Upper

75 100

77 0.6 24.6 36.8#

39 30.2 40.6 60.8#

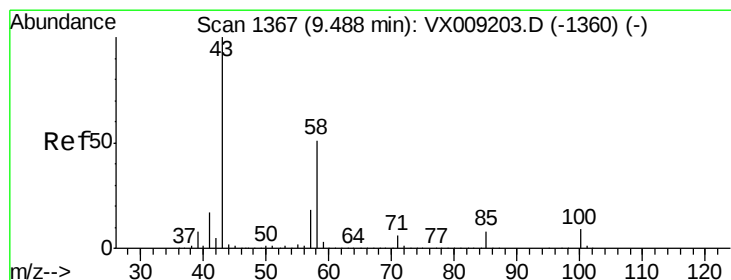
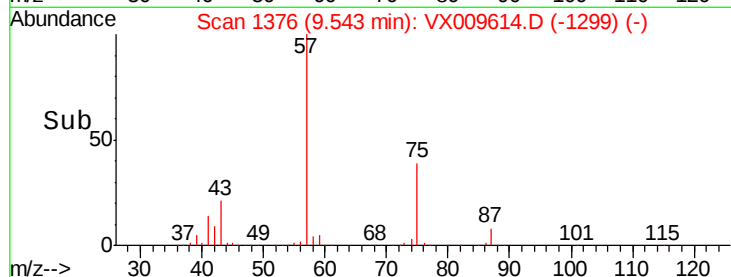
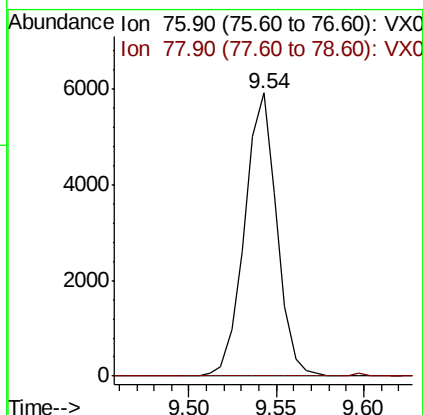
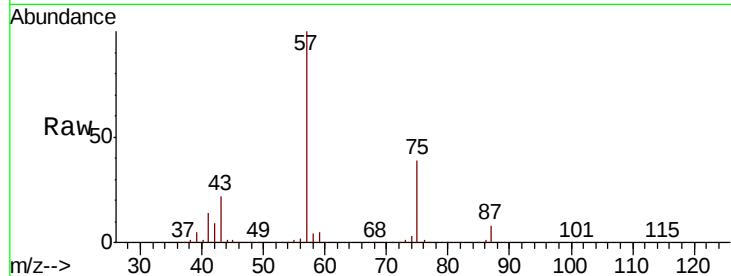




#57
 1,3-Dichloropropane
 Concen: 2.200 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX009614.D
 Acq: 16 May 2019 17:55

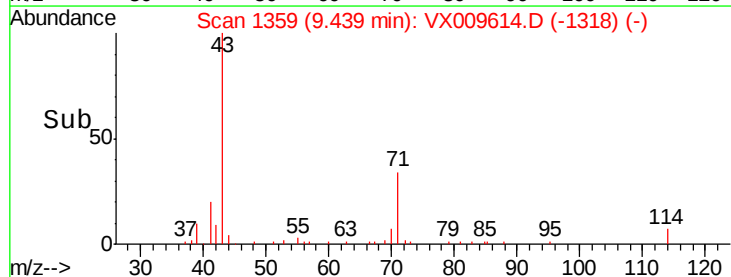
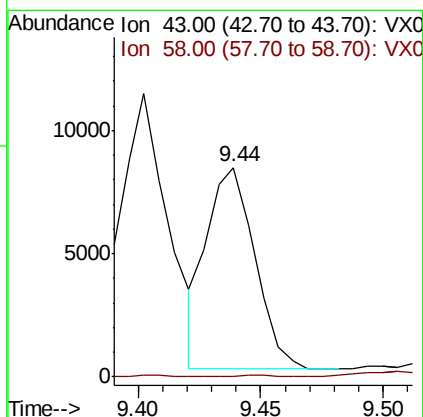
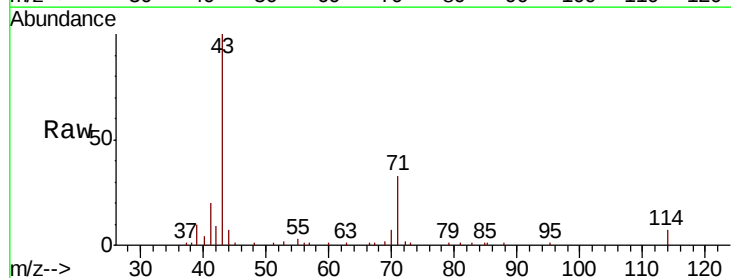
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-22-S

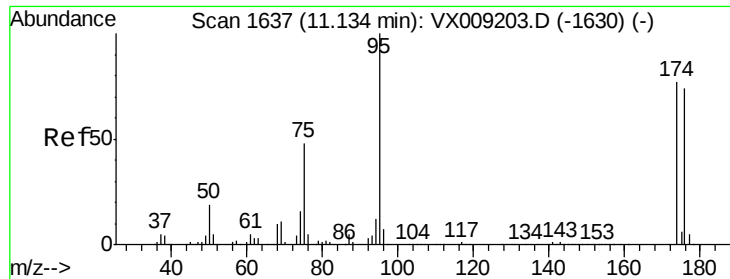
Tot Ion: 76 Resp: 7548
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 3.835 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. -0.05 min
 Lab File: VX009614.D
 Acq: 16 May 2019 17:55

Tgt Ion: 43 Resp: 11145
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 44.745 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

TP-22-S

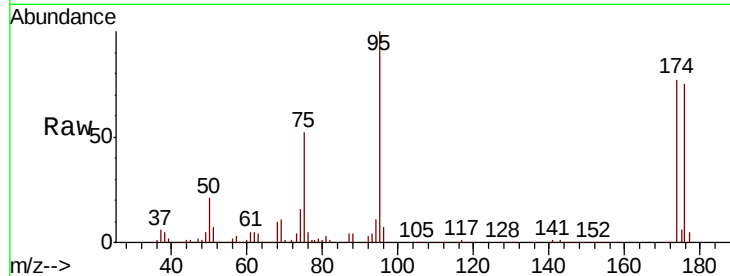
Tot Ion: 95 Resp: 112787

Ion Ratio Lower Upper

95 100

174 82.2 0.0 161.6

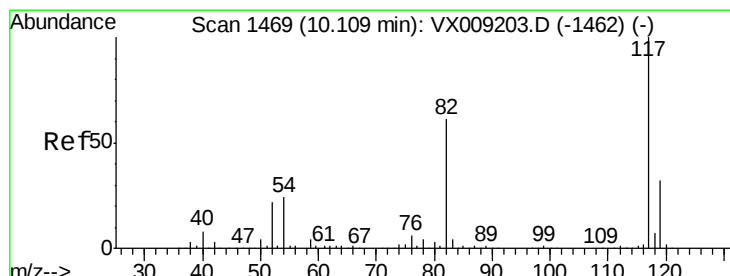
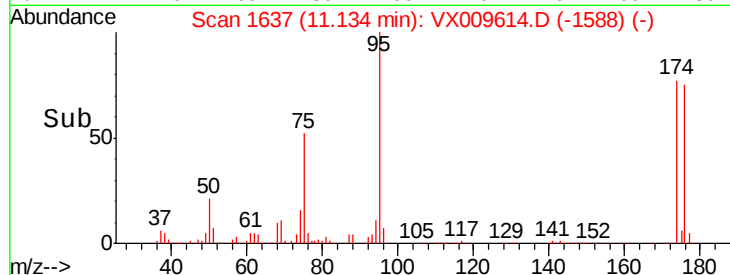
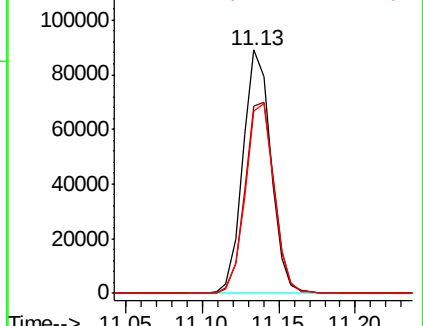
176 80.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009614.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009614.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009614.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

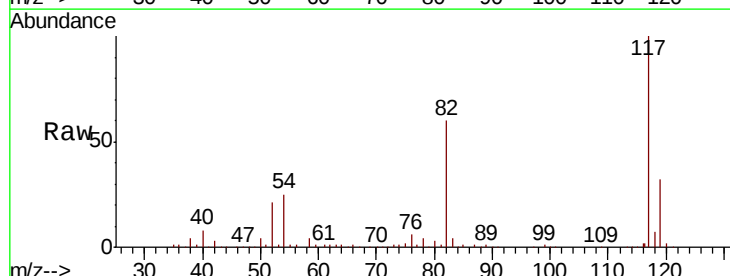
Tgt Ion: 117 Resp: 241763

Ion Ratio Lower Upper

117 100

82 59.6 48.8 73.2

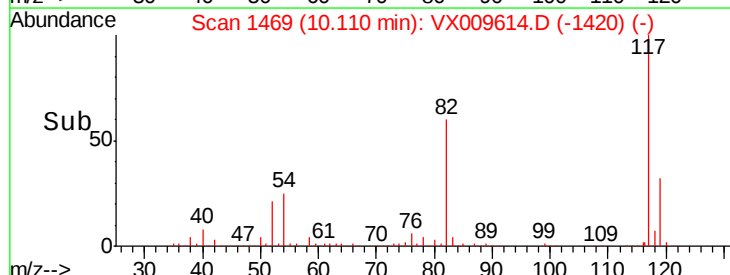
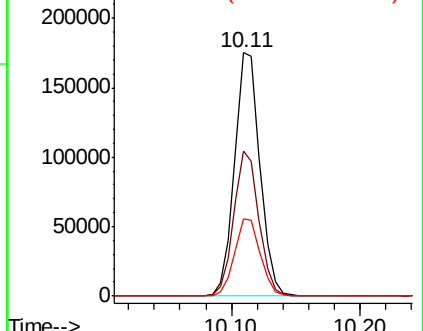
119 31.6 25.8 38.6

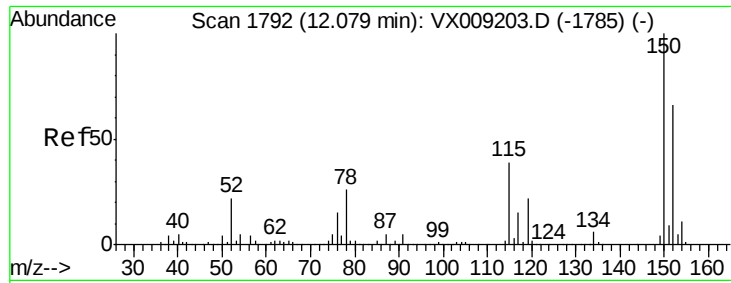


Abundance Ion 116.90 (116.60 to 117.60): VX009614.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009614.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009614.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Instrument :

MSVOA_X

ClientSampleId :

TP-22-S

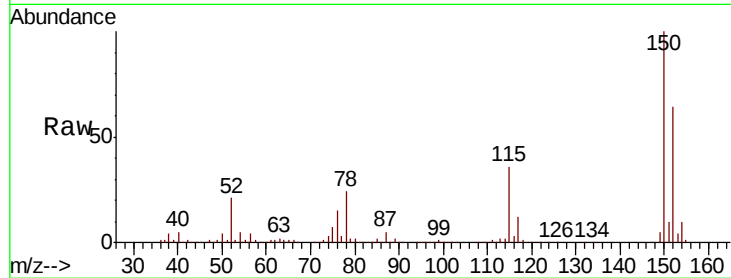
Tot Ion:152 Resp: 103000

Ion Ratio Lower Upper

152 100

115 58.7 41.2 123.6

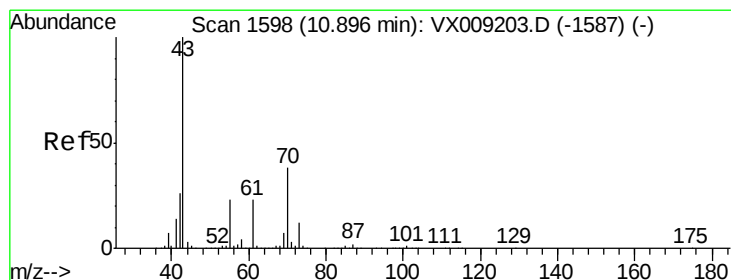
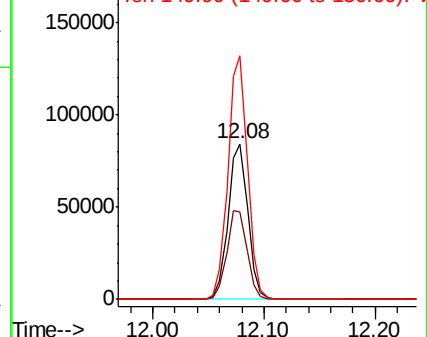
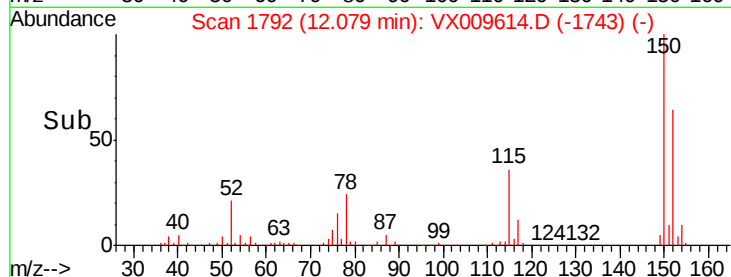
150 155.5 0.0 346.4



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



#74

N-ethyl acetate

Concen: 1.929 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Tgt Ion: 43 Resp: 8423

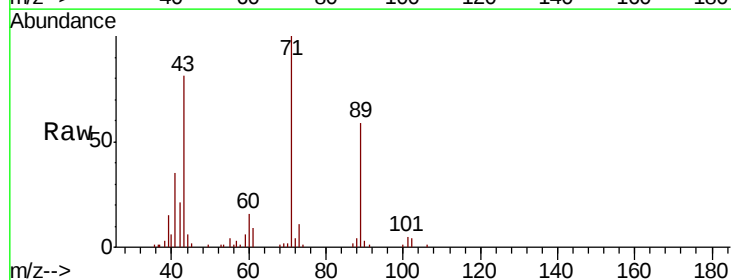
Ion Ratio Lower Upper

43 100

70 2.7 30.0 45.0#

55 6.5 17.9 26.9#

61 11.5 18.4 27.6#

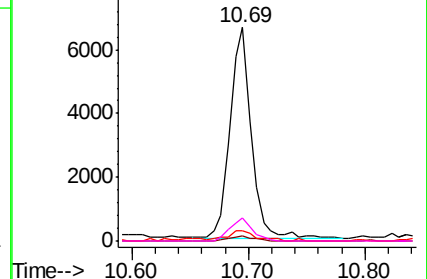
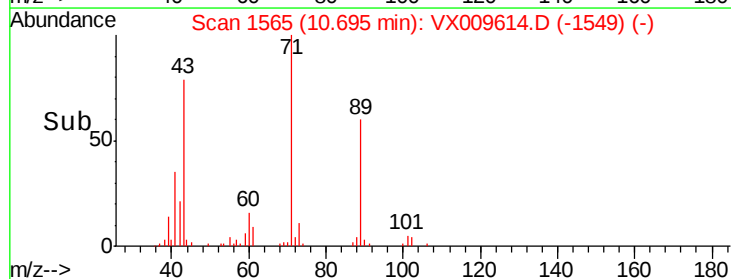


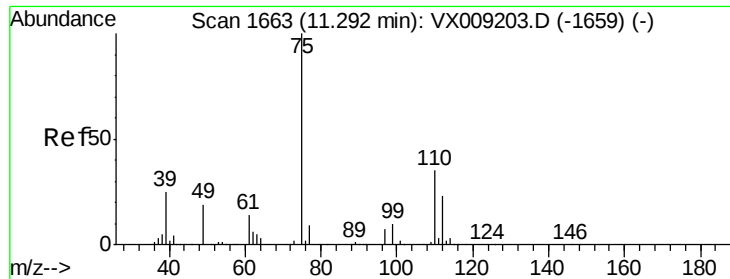
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.285 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

Instrument :

MSVOA_X

ClientSampled :

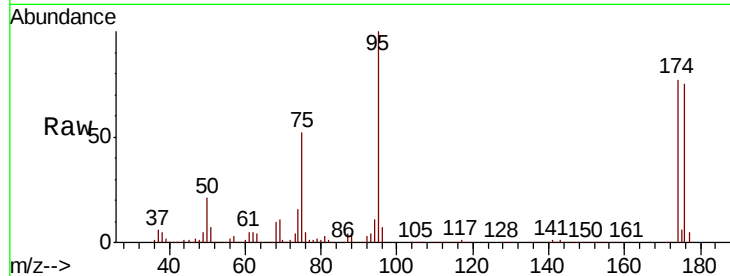
TP-22-S

Tot Ion: 75 Resp: 58023

Ion Ratio Lower Upper

75 100

77 1.3 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

50000

40000

30000

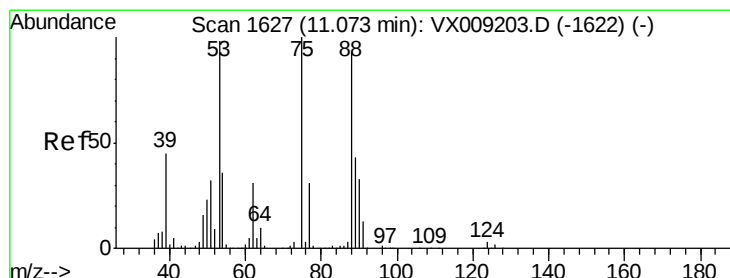
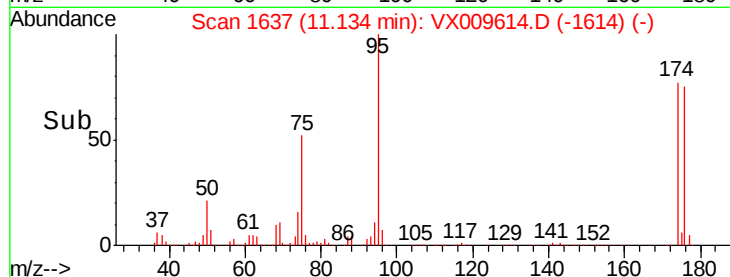
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 62.137 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009614.D

Acq: 16 May 2019 17:55

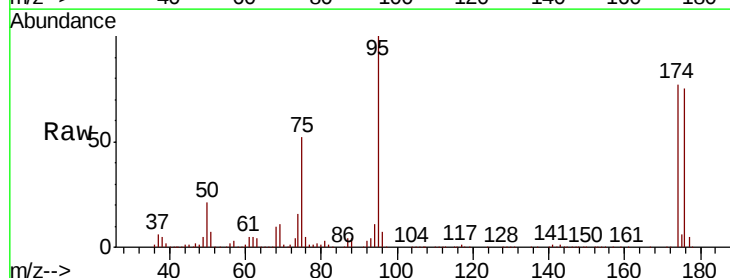
Tgt Ion: 75 Resp: 58023

Ion Ratio Lower Upper

75 100

53 0.3 79.0 118.6#

89 0.0 34.7 52.1#



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

60000

50000

40000

30000

20000

10000

0

Time-->

11.10 11.20

