

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052819\
 Data File : VX009915.D
 Acq On : 28 May 2019 15:23
 Operator : JC/SP
 Sample : K3032-01DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0657DL

Quant Time: May 29 04:10:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	173315	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	275687	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	253405	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113188	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	116130	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
35) Dibromofluoromethane	5.50	113	83329	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
50) Toluene-d8	8.71	98	357725	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
62) 4-Bromofluorobenzene	11.13	95	125311	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	

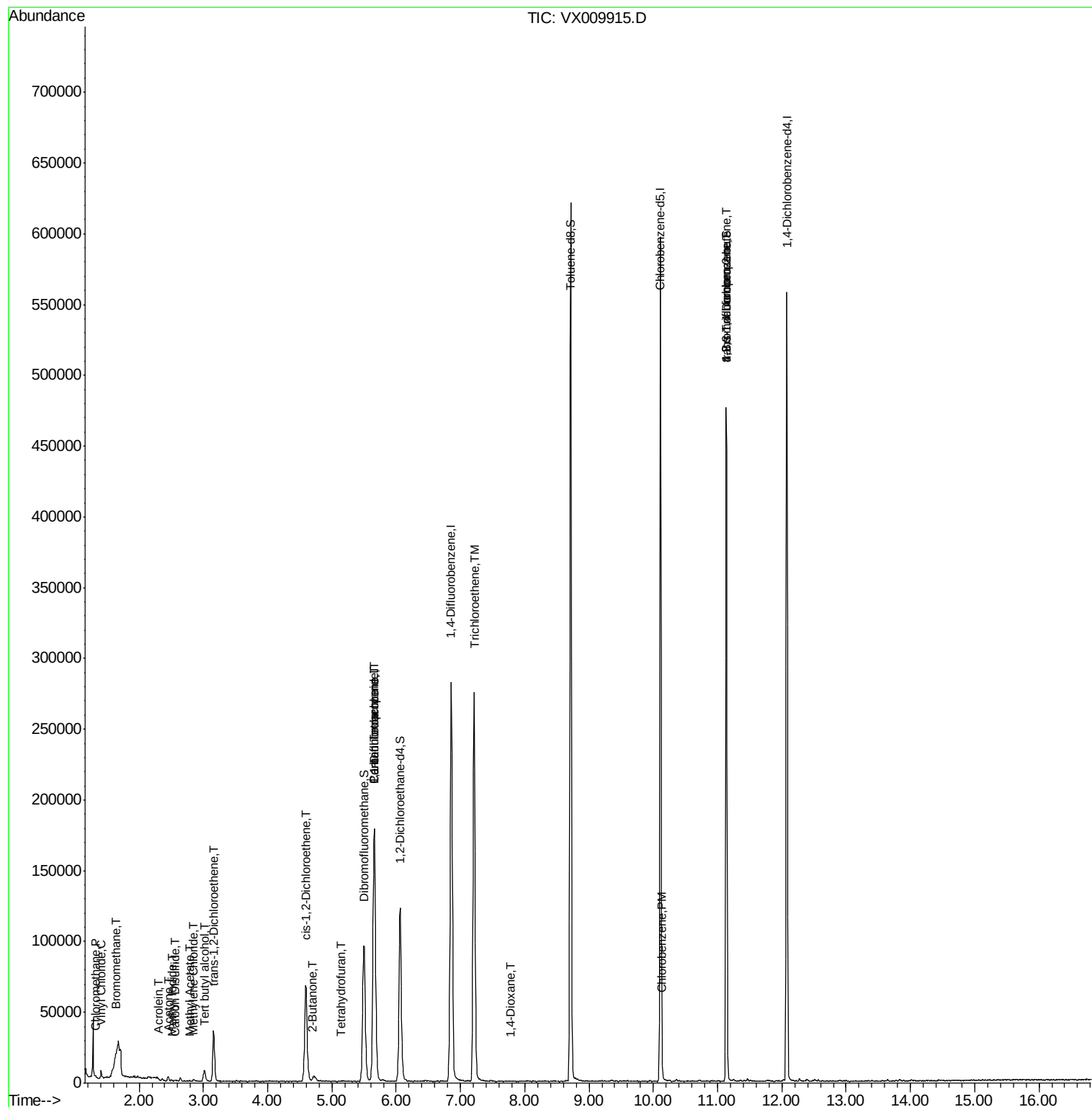
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	636	0.223	ug/l #	78
4) Vinyl Chloride	1.41	62	3120	1.216	ug/l	96
5) Bromomethane	1.64	94	1049	0.675	ug/l	93
10) Methyl Iodide	2.51	142	573	4.902	ug/l #	88
11) Tert butyl alcohol	3.02	59	5055	8.390	ug/l #	75
13) Acrolein	2.29	56	271	21.678	ug/l #	79
16) Acetone	2.45	43	3751	2.652	ug/l #	81
17) Carbon Disulfide	2.56	76	1171	0.603	ug/l	96
18) Methyl Acetate	2.78	43	842	0.256	ug/l #	70
20) Methylene Chloride	2.85	84	588	0.271	ug/l #	73
21) trans-1,2-Dichloroethene	3.16	96	13823	7.078	ug/l	95
25) 2-Butanone	4.70	43	719	0.326	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	41641	18.471	ug/l	90
29) Tetrahydrofuran	5.14	42	368	0.260	ug/l #	59
36) 1,1-Dichloropropene	5.66	75	14063	5.028	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16341	6.760	ug/l #	16
44) Trichloroethene	7.21	130	105794	52.490	ug/l	97
49) 1,4-Dioxane	7.79	88	19	0.328	ug/l #	1
65) Chlorobenzene	10.14	112	1178	0.222	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	64716	23.910	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64716	59.157	ug/l #	10

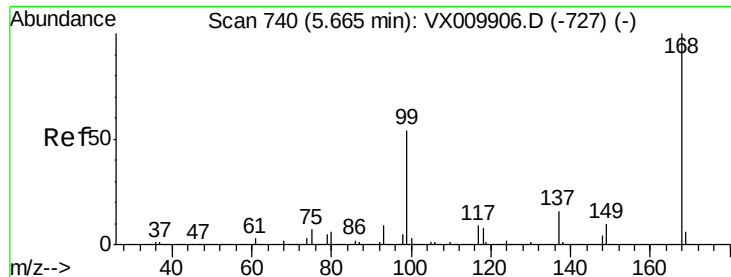
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 29 04:10:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
Quant Title : SW846 8260
QLast Update : Wed May 29 04:00:56 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: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

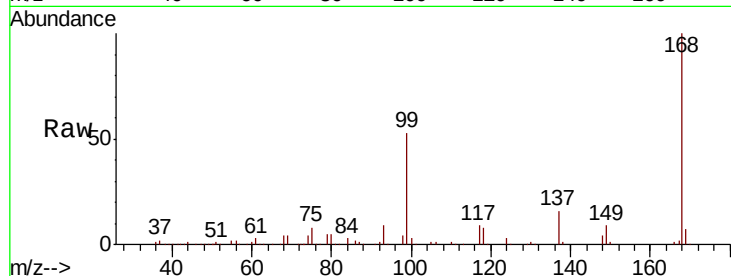
S32-0657DL

Tot Ion:168 Resp: 173315

Ion Ratio Lower Upper

168 100

99 53.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

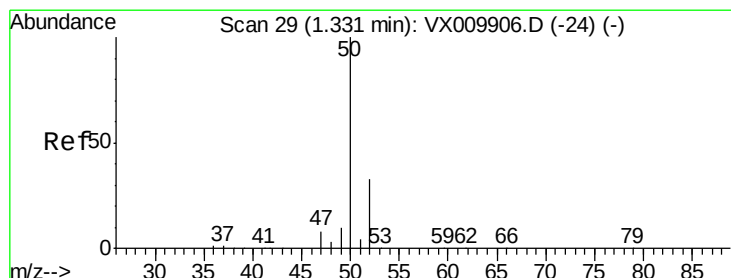
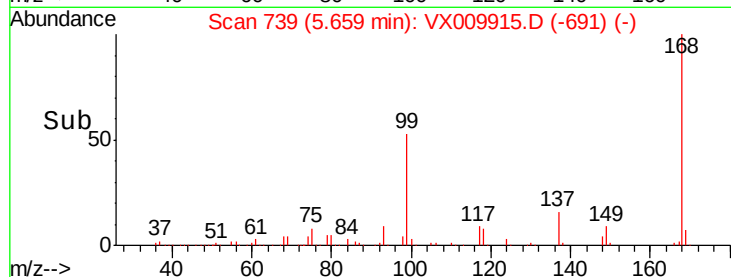
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.223 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX009915.D

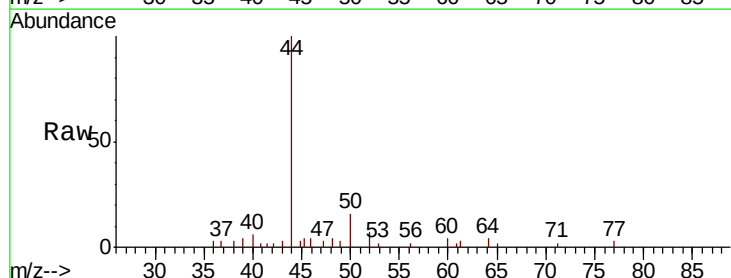
Acq: 28 May 2019 15:23

Tgt Ion: 50 Resp: 636

Ion Ratio Lower Upper

50 100

52 44.7 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

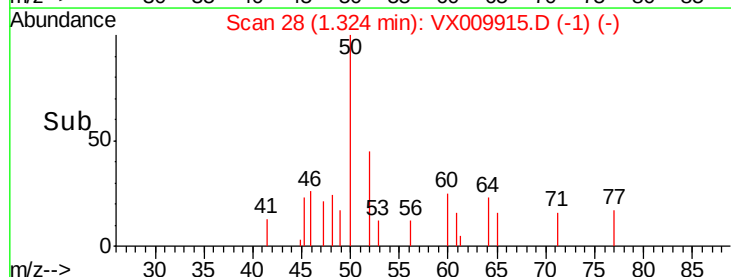
300

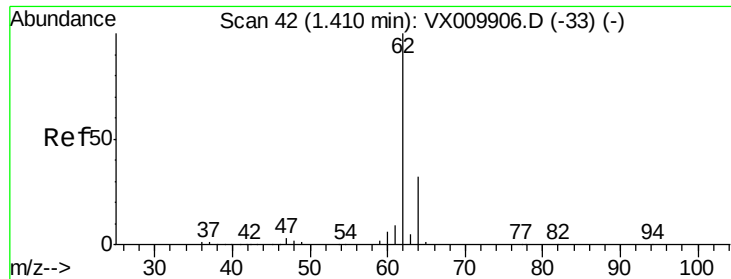
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 1.216 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

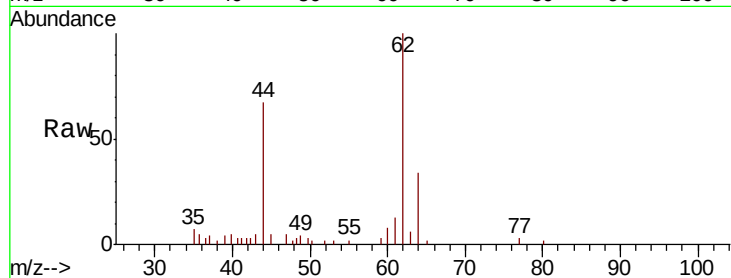
S32-0657DL

Tot Ion: 62 Resp: 3120

Ion Ratio Lower Upper

62 100

64 34.1 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

3000

2500

2000

1500

1000

500

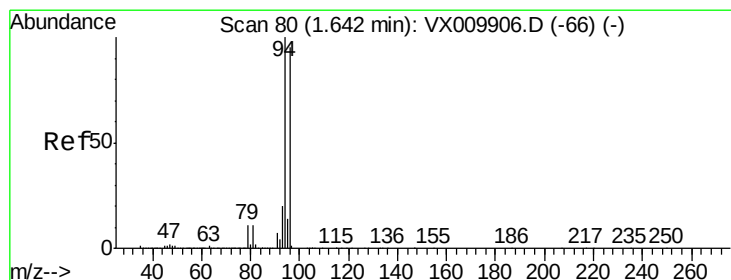
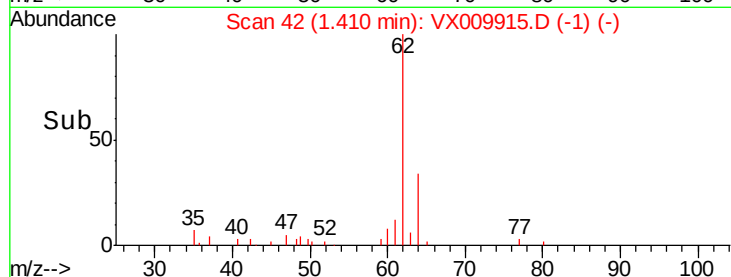
0

Time-->

1.35

1.40

1.45



#5

Bromomethane

Concen: 0.675 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX009915.D

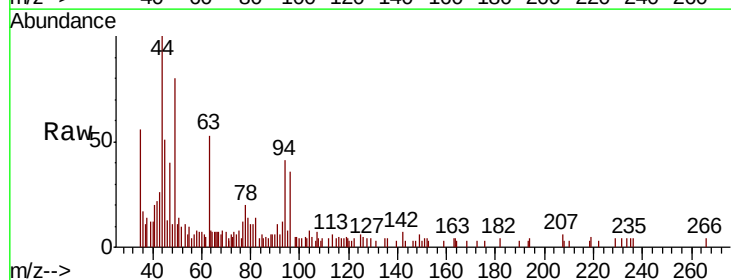
Acq: 28 May 2019 15:23

Tgt Ion: 94 Resp: 1049

Ion Ratio Lower Upper

94 100

96 88.8 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

400

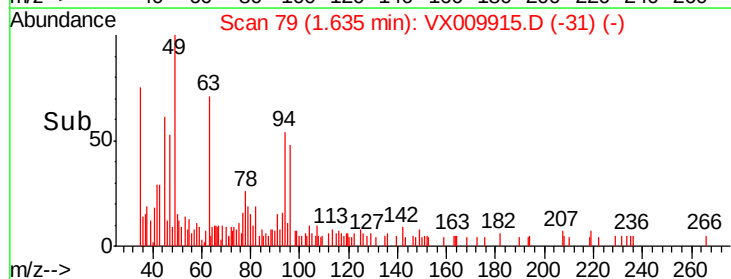
200

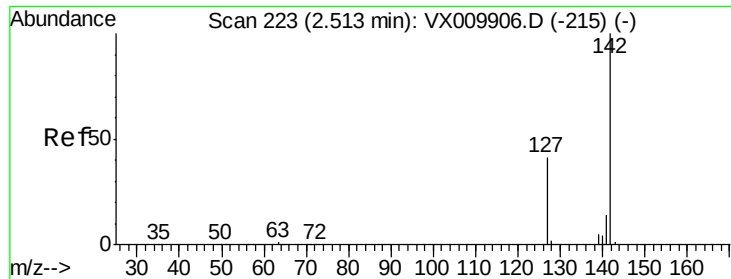
0

Time-->

1.60

1.65

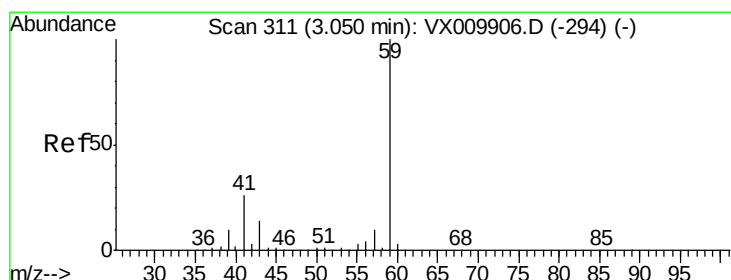
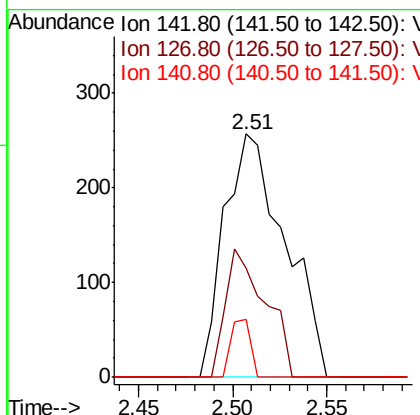
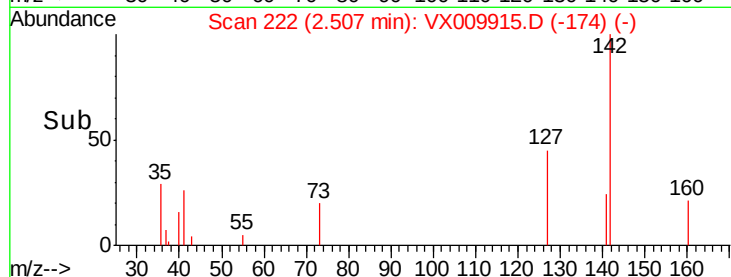
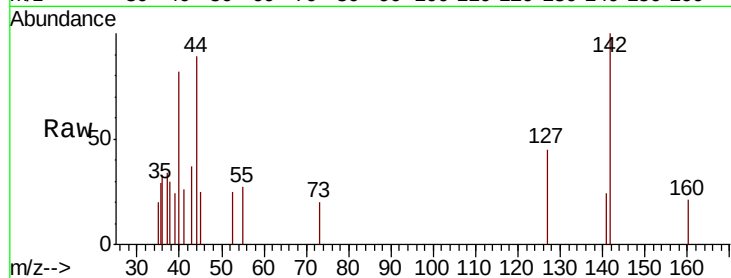




#10
Methvl Iodide
Concen: 4.902 ug/l
RT: 2.51 min Scan# 222
Delta R.T. -0.01 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

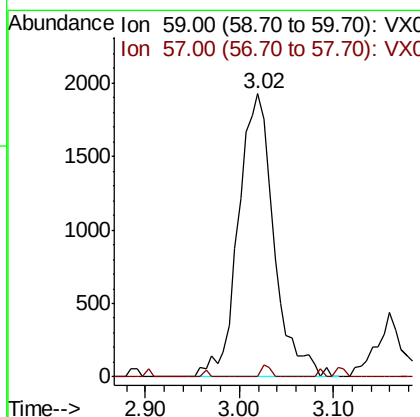
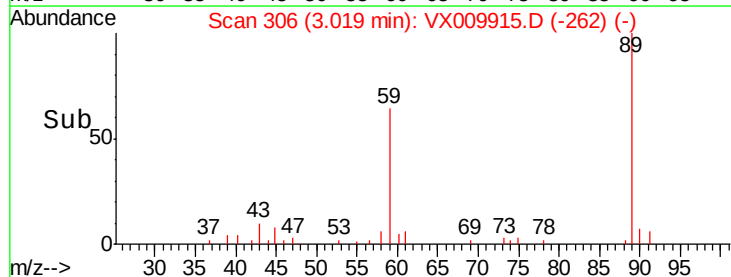
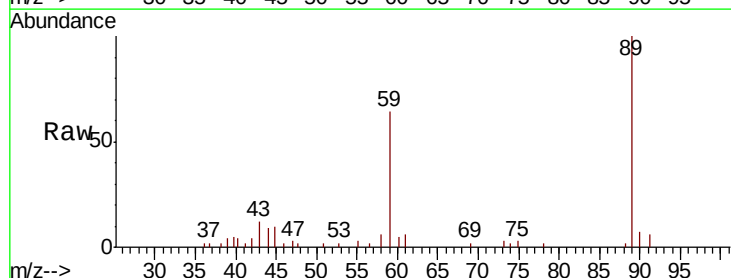
Instrument :
MSVOA_X
ClientSampleId :
S32-0657DL

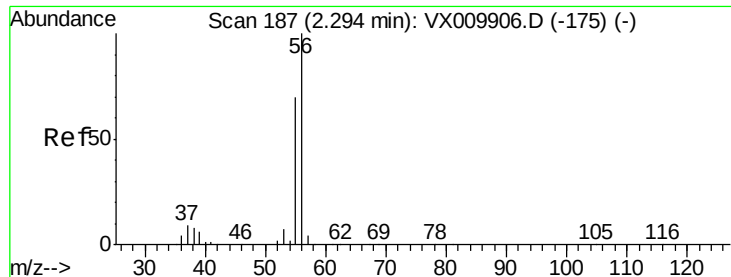
Tot Ion:142 Resp: 573
Ion Ratio Lower Upper
142 100
127 34.9 33.0 49.4
141 7.7 11.4 17.0#



#11
Tert butyl alcohol
Concen: 8.390 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

Tgt Ion: 59 Resp: 5055
Ion Ratio Lower Upper
59 100
57 1.0 8.2 12.2#





#13

Acrolein

Concen: 21.678 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

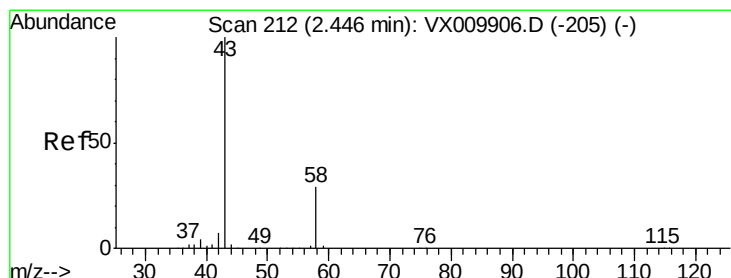
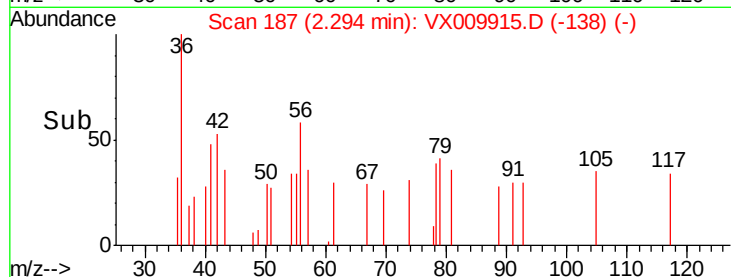
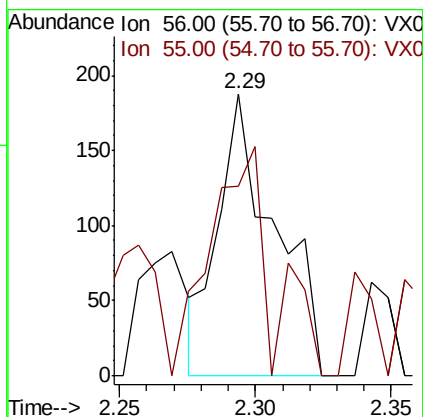
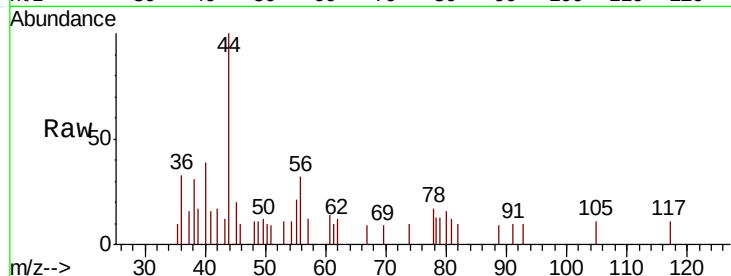
S32-0657DL

Tot Ion: 56 Resp: 271

Ion Ratio Lower Upper

56 100

55 88.9 57.0 85.4#



#16

Acetone

Concen: 2.652 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX009915.D

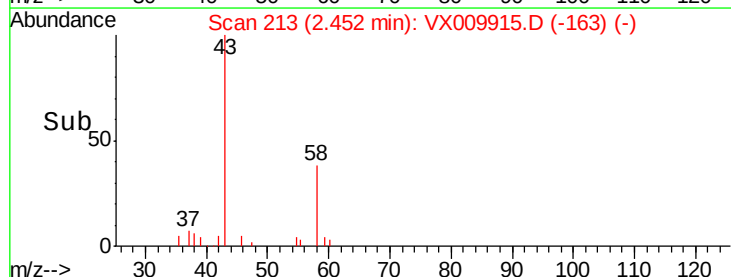
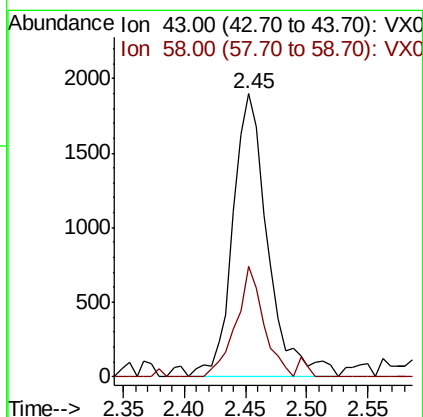
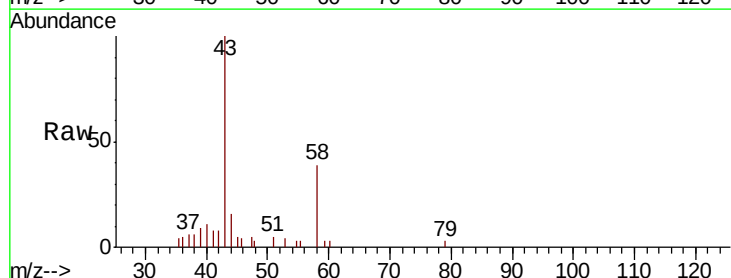
Acq: 28 May 2019 15:23

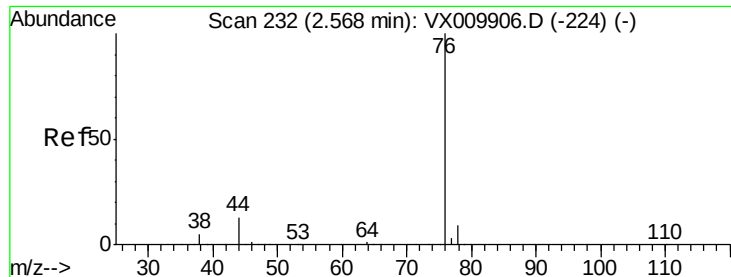
Tgt Ion: 43 Resp: 3751

Ion Ratio Lower Upper

43 100

58 39.0 23.2 34.8#





#17

Carbon Disulfide

Concen: 0.603 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

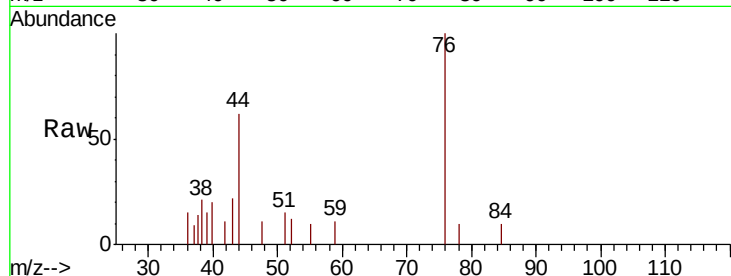
S32-0657DL

Tot Ion: 76 Resp: 1171

Ion Ratio Lower Upper

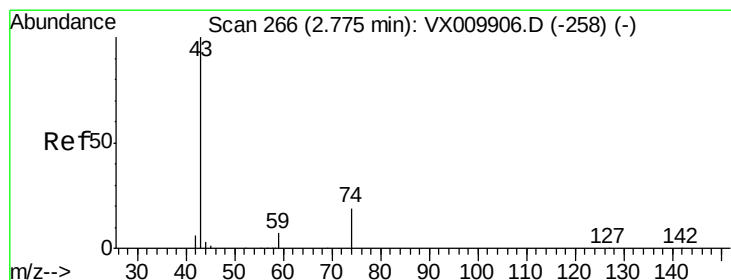
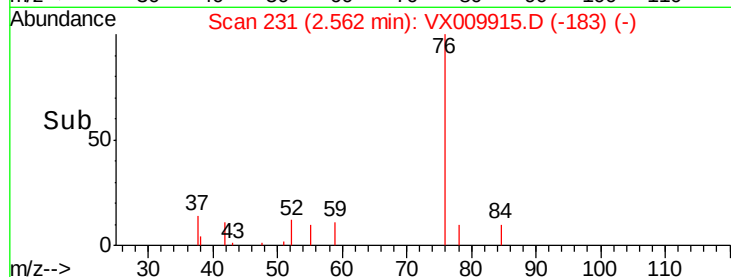
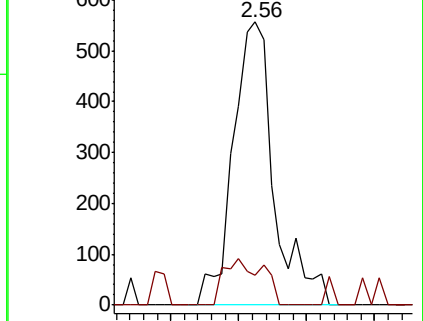
76 100

78 10.4 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.256 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX009915.D

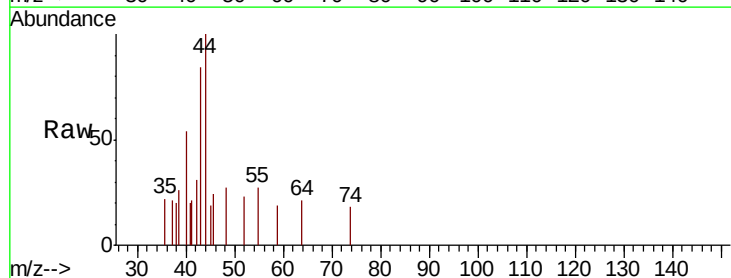
Acq: 28 May 2019 15:23

Tgt Ion: 43 Resp: 842

Ion Ratio Lower Upper

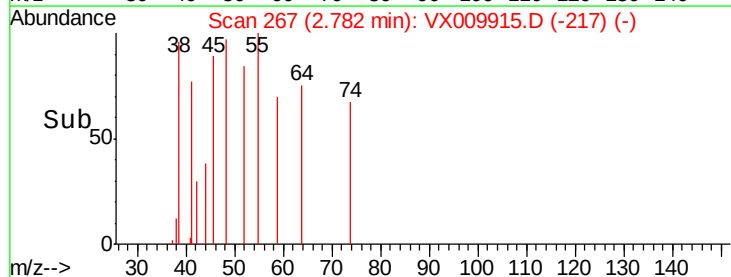
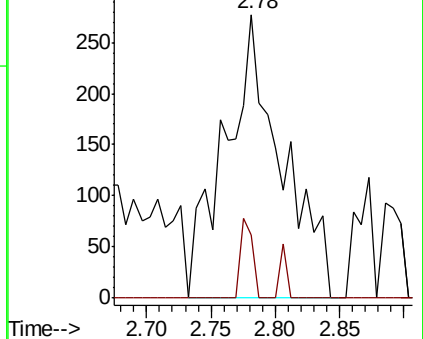
43 100

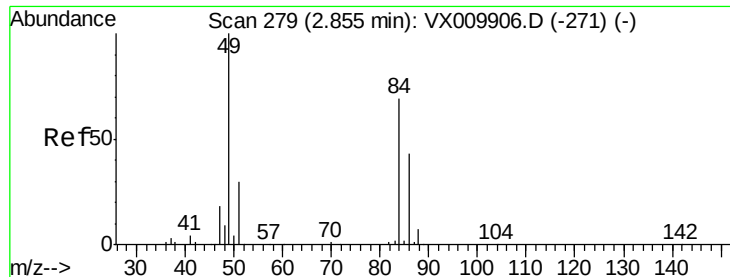
74 6.1 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 0.271 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

S32-0657DL

Tot Ion: 84 Resp: 588

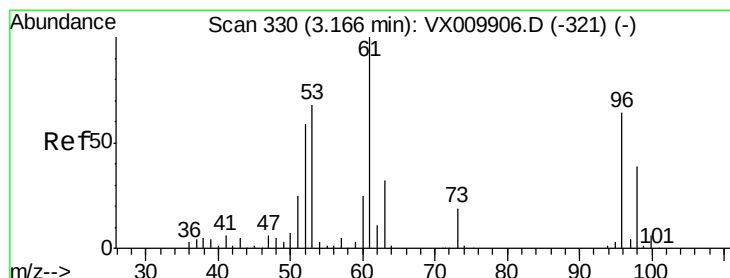
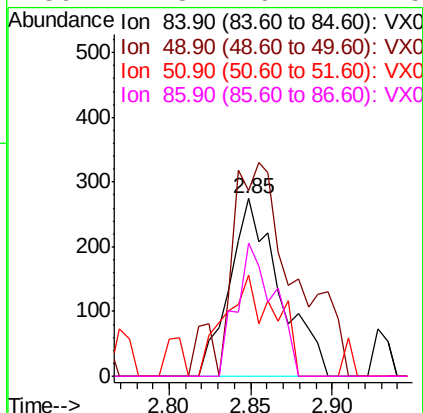
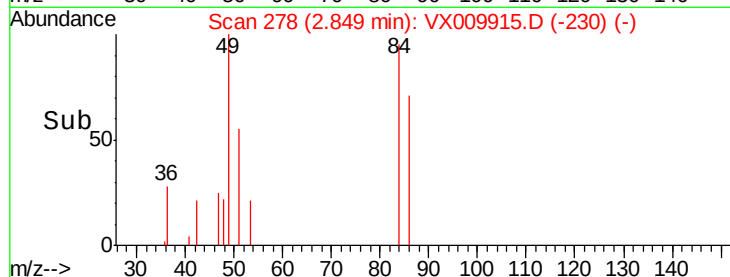
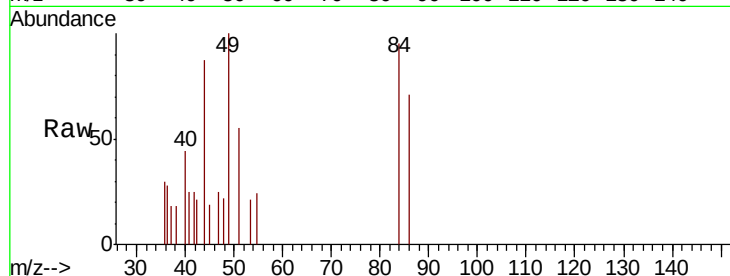
Ion Ratio Lower Upper

84 100

49 104.7 115.8 173.6#

51 57.3 34.4 51.6#

86 74.8 49.7 74.5#



#21

trans-1,2-Dichloroethene

Concen: 7.078 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.01 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

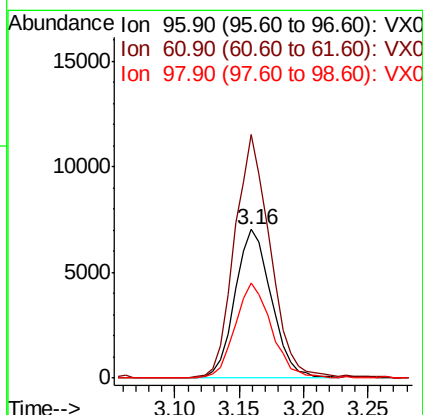
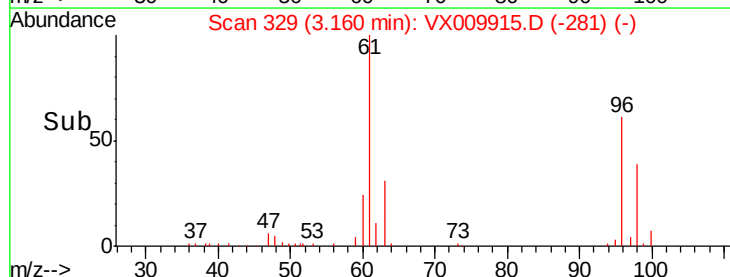
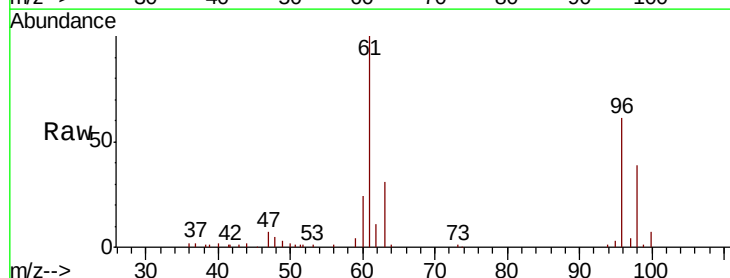
Tgt Ion: 96 Resp: 13823

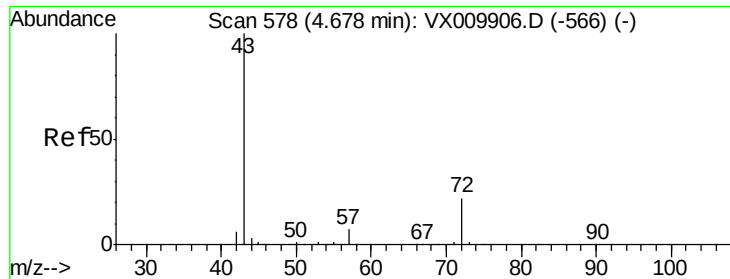
Ion Ratio Lower Upper

96 100

61 163.9 125.7 188.5

98 63.9 49.0 73.6





#25

2-Butanone

Concen: 0.326 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.02 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

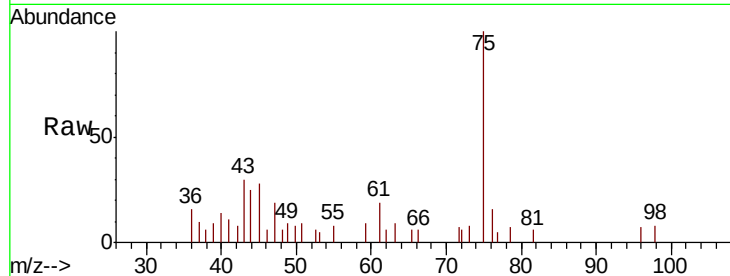
S32-0657DL

Tot Ion: 43 Resp: 719

Ion Ratio Lower Upper

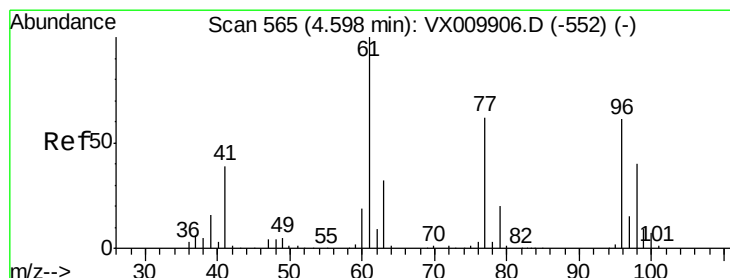
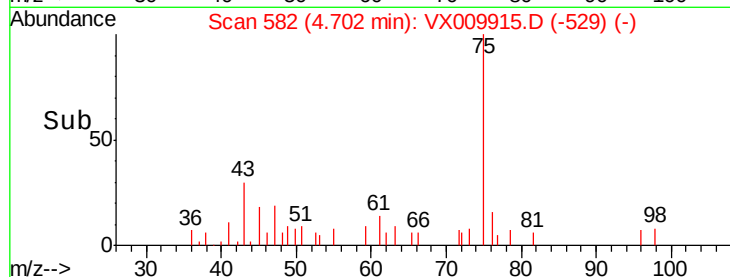
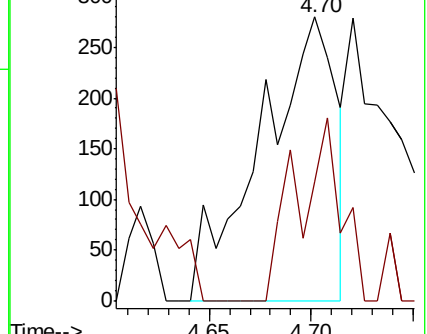
43 100

72 20.4 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 18.471 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

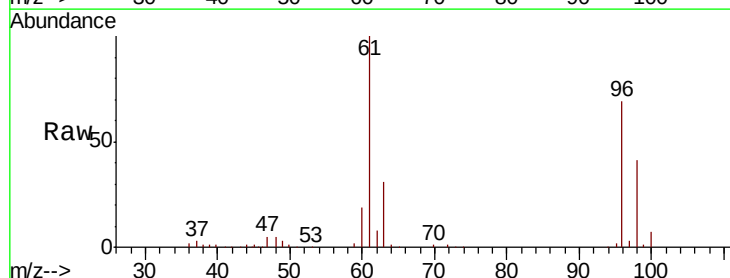
Tgt Ion: 96 Resp: 41641

Ion Ratio Lower Upper

96 100

61 149.2 0.0 334.0

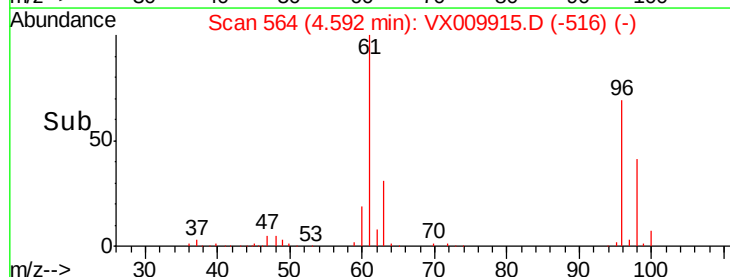
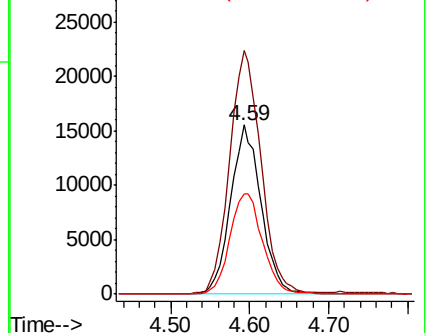
98 63.9 0.0 131.6

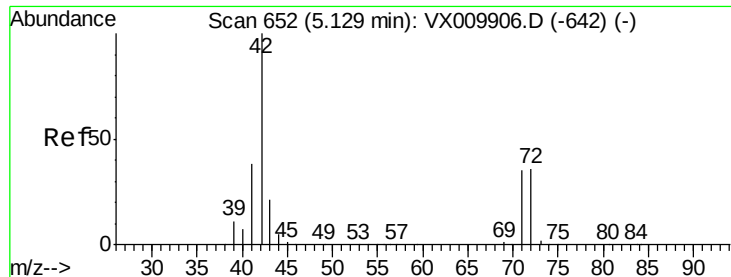


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

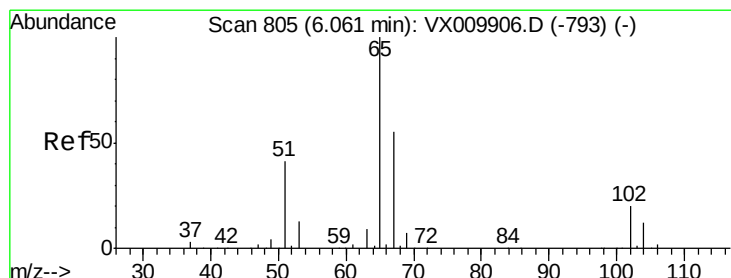
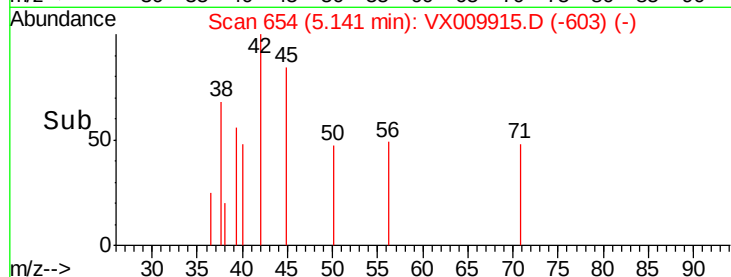
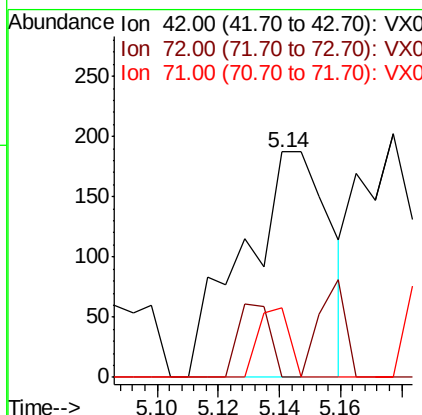
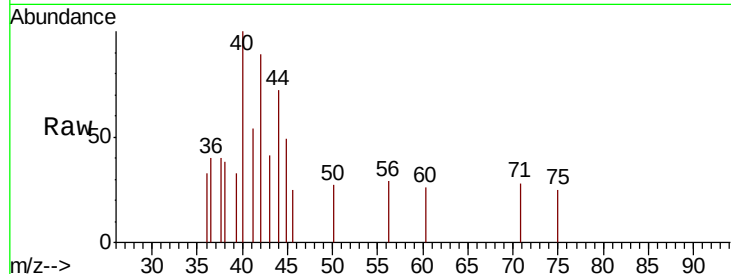




#29
Tetrahydrofuran
Concen: 0.260 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

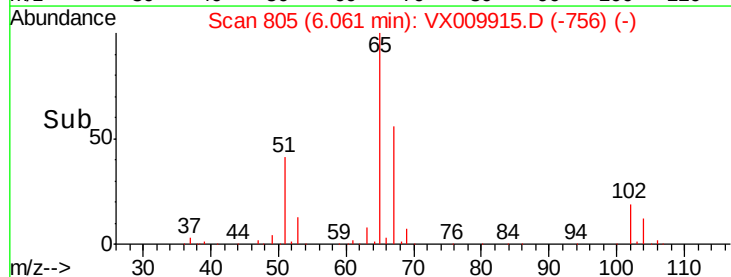
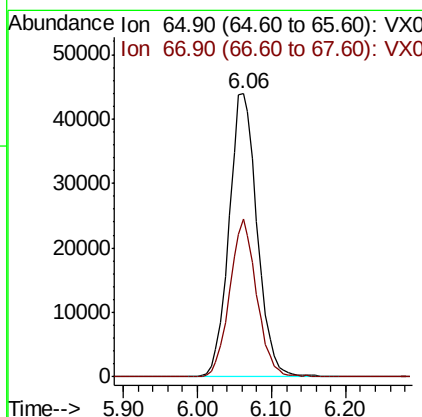
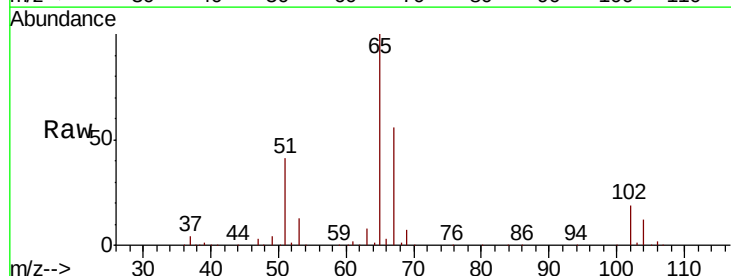
Instrument :
MSVOA_X
ClientSampled :
S32-0657DL

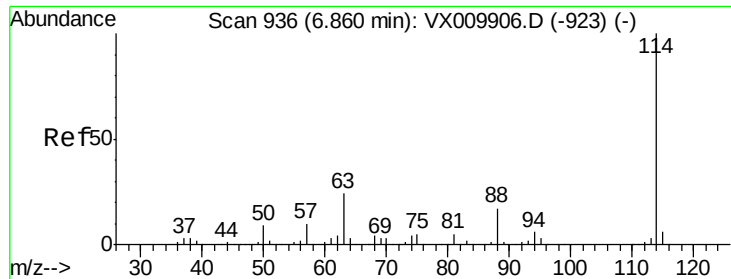
Tot Ion: 42 Resp: 368
Ion Ratio Lower Upper
42 100
72 12.0 29.2 43.8#
71 11.1 27.6 41.4#



#33
1,2-Dichloroethane-d4
Concen: 47.434 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

Tgt Ion: 65 Resp: 116130
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.4

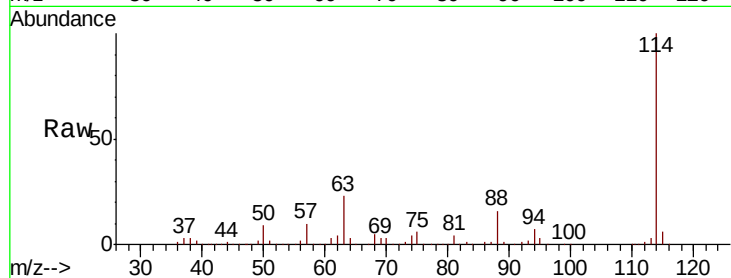




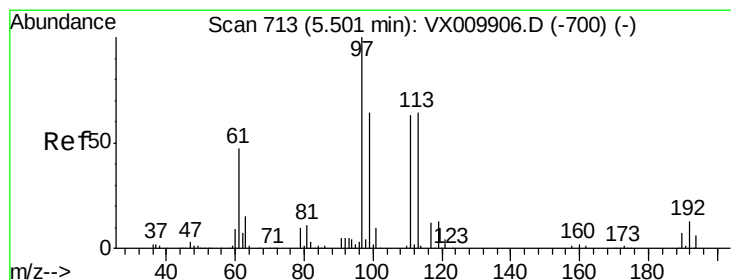
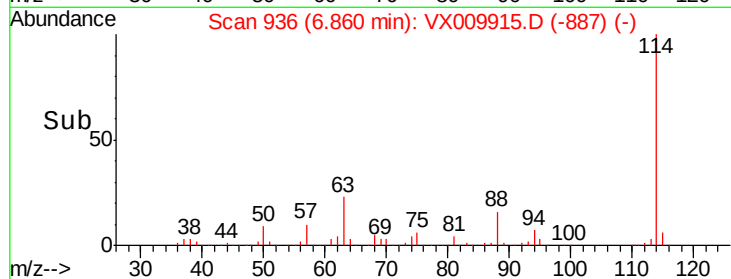
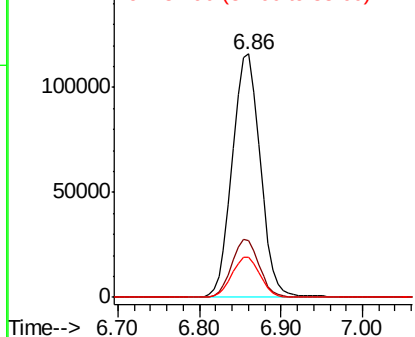
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009915.D
 Acq: 28 May 2019 15:23

Instrument :
 MSVOA_X
 ClientSampleID :
 S32-0657DL

Tot Ion:114 Resp: 275687
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 47.4
 88 16.4 0.0 33.0

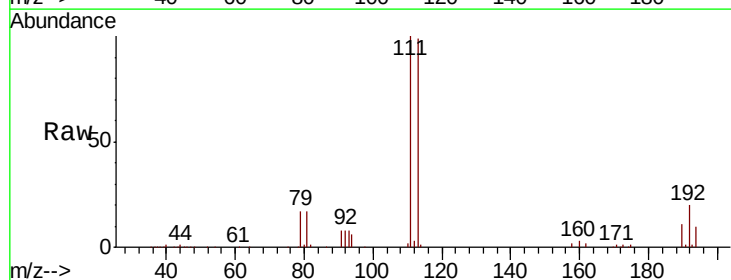


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

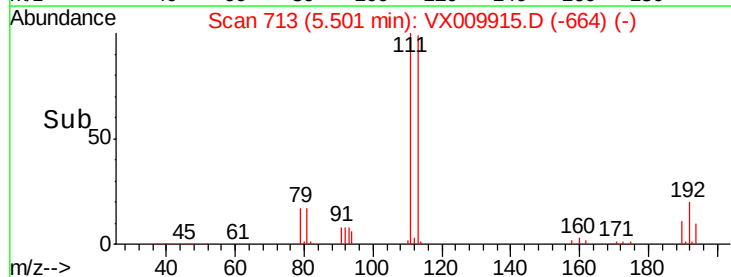
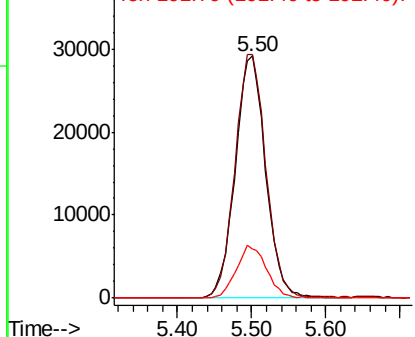


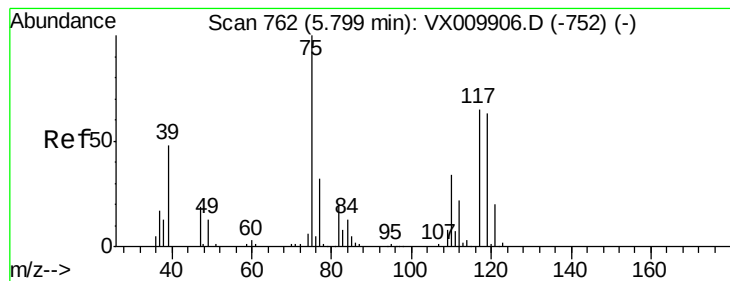
#35
 Dibromofluoromethane
 Concen: 48.077 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009915.D
 Acq: 28 May 2019 15:23

Tgt Ion:113 Resp: 83329
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.2 123.2
 192 21.7 17.1 25.7



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: 5.028 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

S32-0657DL

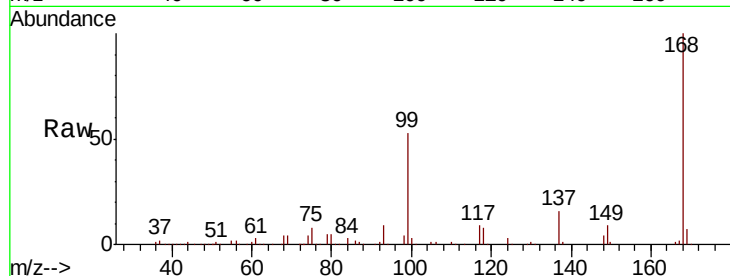
Tot Ion: 75 Resp: 14063

Ion Ratio Lower Upper

75 100

110 8.8 16.7 50.1#

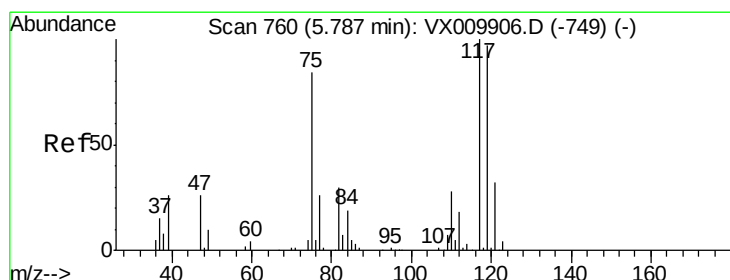
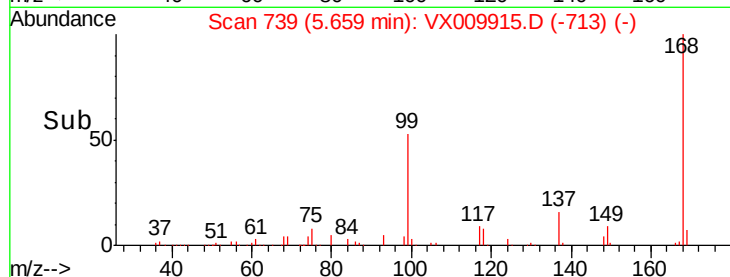
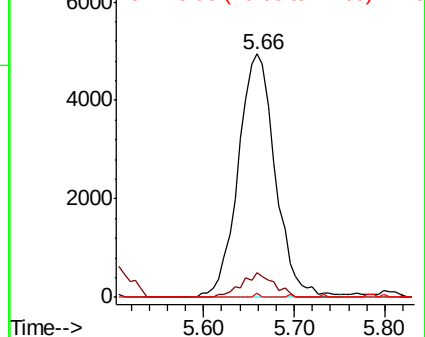
77 0.2 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.760 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

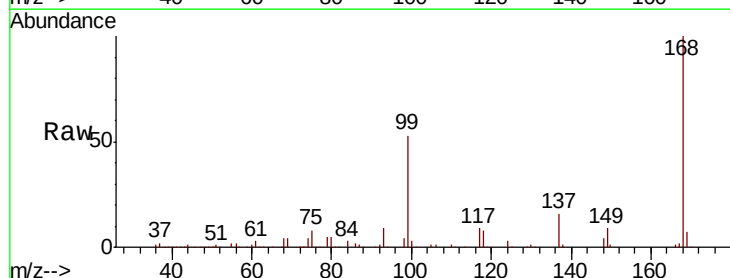
Tgt Ion: 117 Resp: 16341

Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

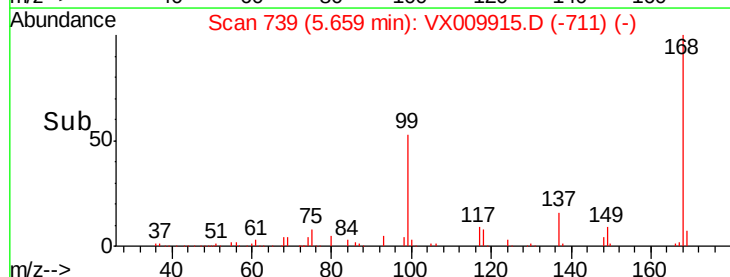
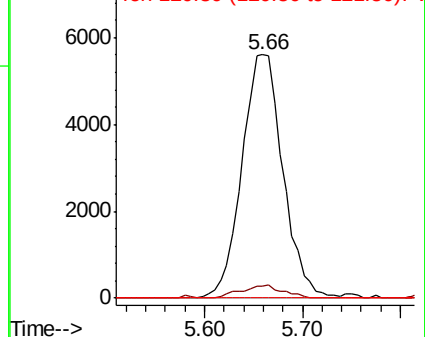
121 0.0 25.4 38.0#

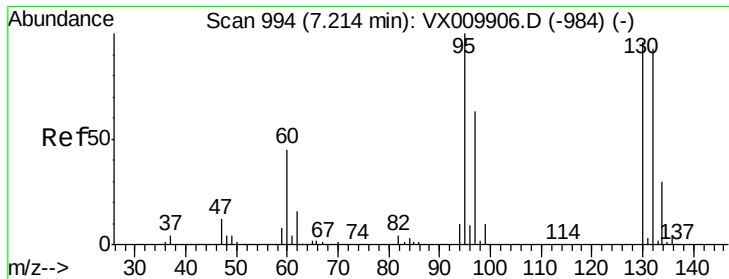


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 52.490 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

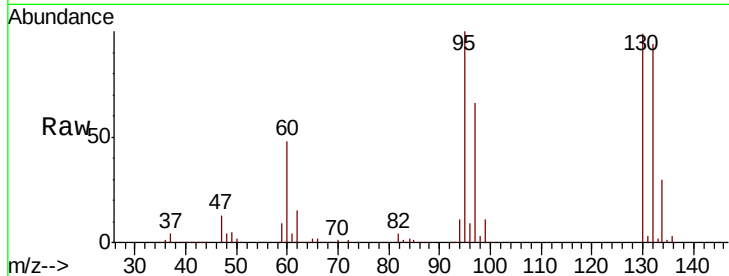
S32-0657DL

Tot Ion:130 Resp: 105794

Ion Ratio Lower Upper

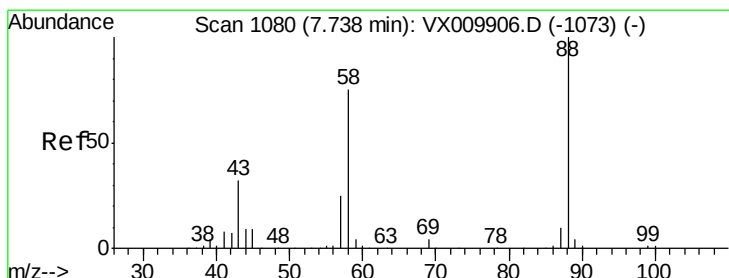
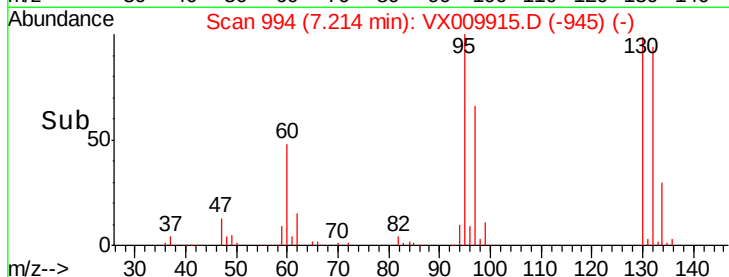
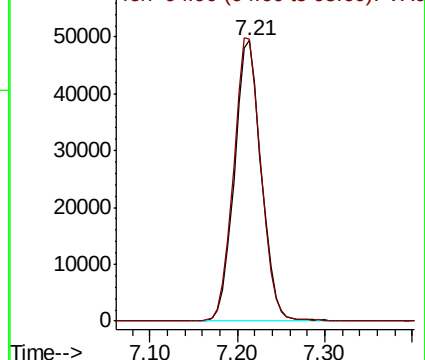
130 100

95 100.6 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.328 ug/l

RT: 7.79 min Scan# 1088

Delta R.T. 0.05 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

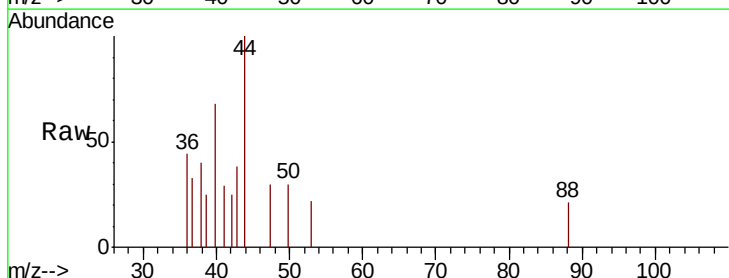
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 573.7 30.2 45.4#

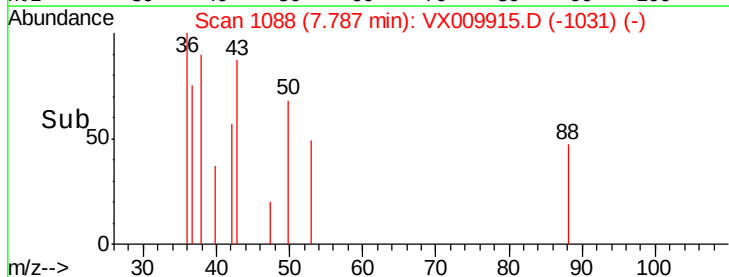
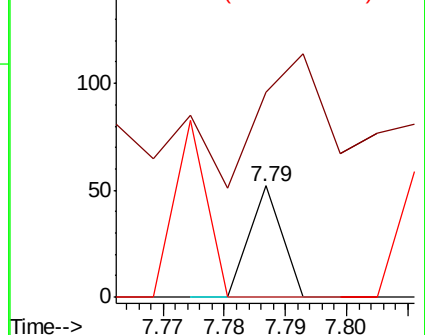
58 157.9 64.0 96.0#

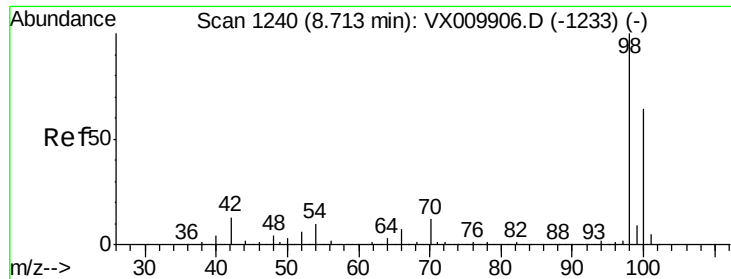


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.825 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

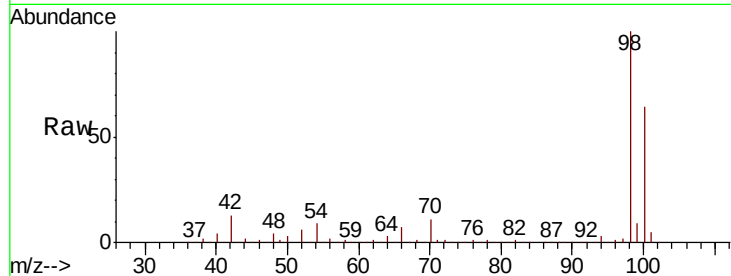
S32-0657DL

Tot Ion: 98 Resp: 357725

Ion Ratio Lower Upper

98 100

100 63.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

100000

50000

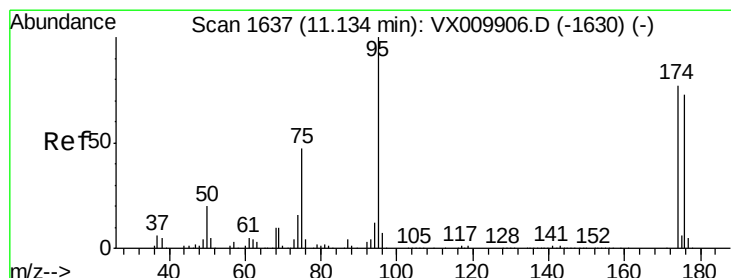
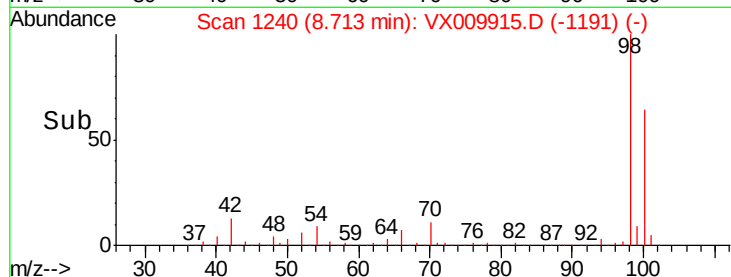
0

8.60

8.71

8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 49.568 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

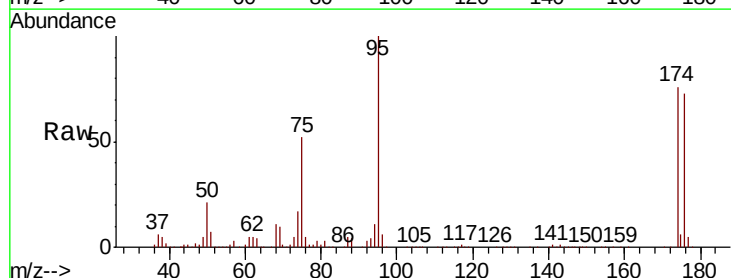
Tgt Ion: 95 Resp: 125311

Ion Ratio Lower Upper

95 100

174 80.5 0.0 160.4

176 78.8 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

50000

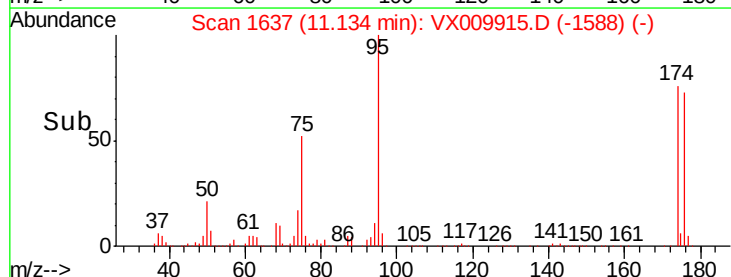
0

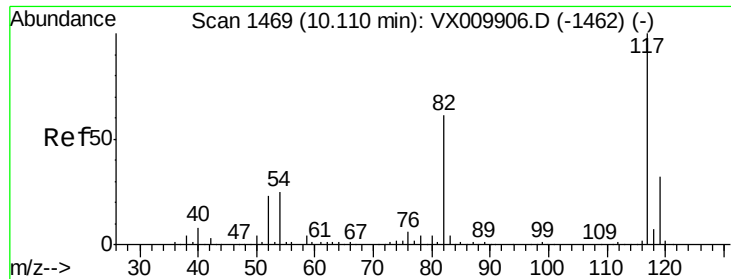
11.10

11.13

11.20

Time-->

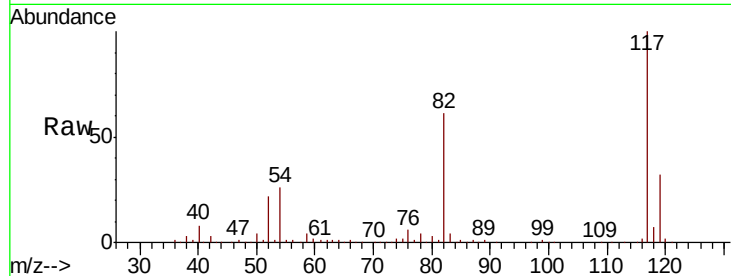




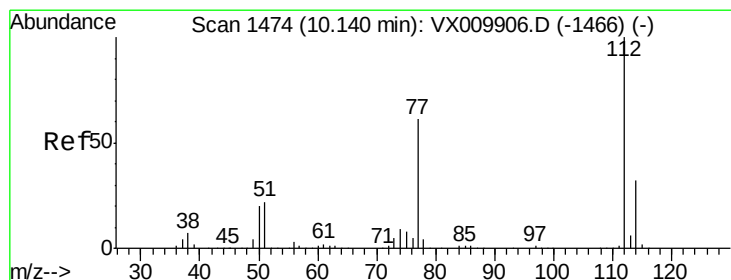
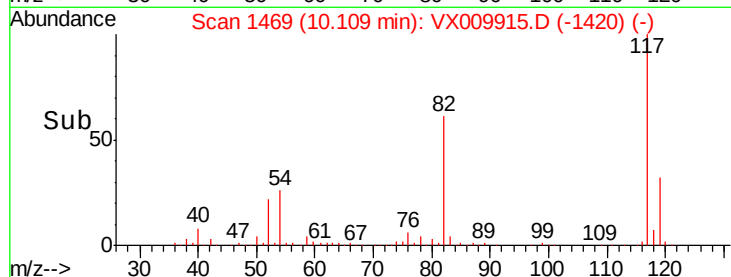
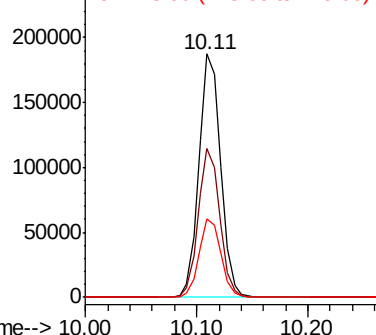
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

Instrument :
MSVOA_X
ClientSampleId :
S32-0657DL

Tot Ion:117 Resp: 253405
Ion Ratio Lower Upper
117 100
82 61.1 49.2 73.8
119 32.1 25.2 37.8

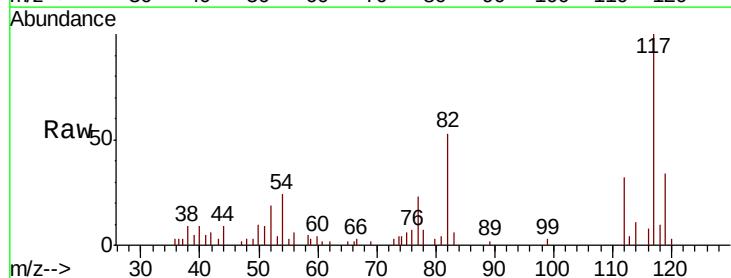


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

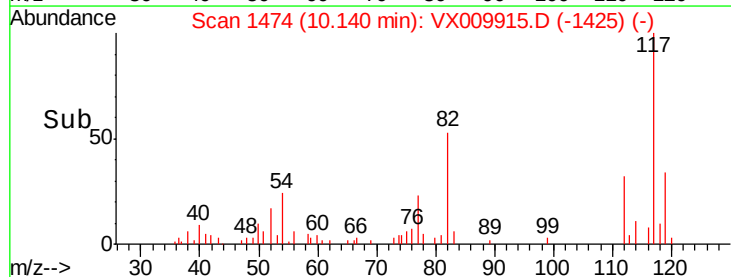
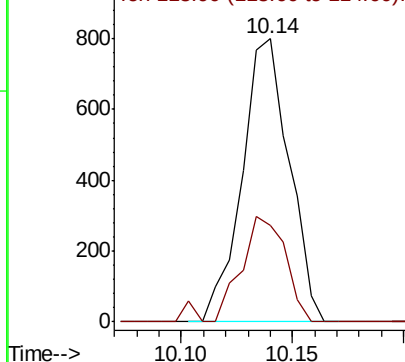


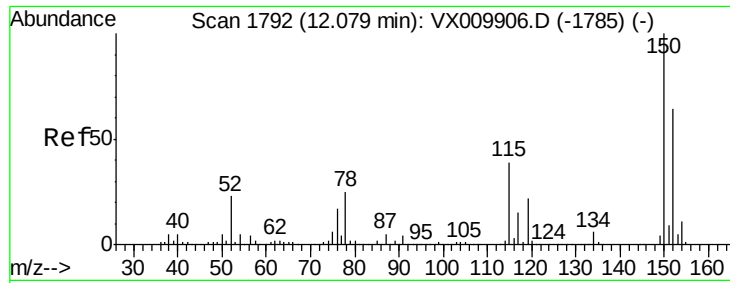
#65
Chlorobenzene
Concen: 0.222 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

Tgt Ion:112 Resp: 1178
Ion Ratio Lower Upper
112 100
114 34.0 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V



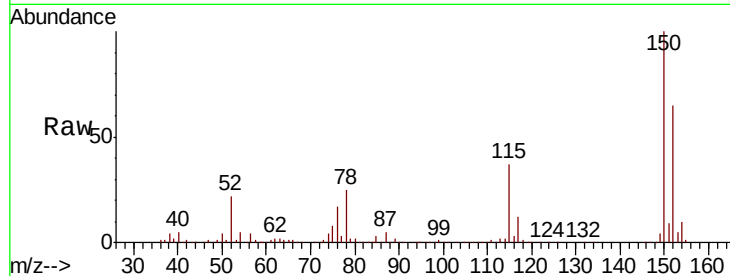


#72

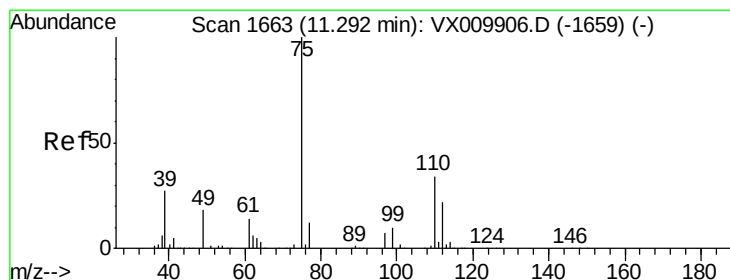
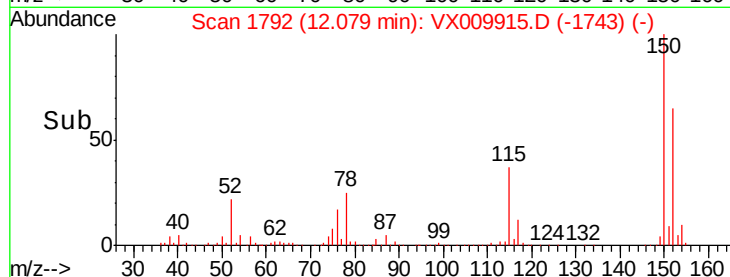
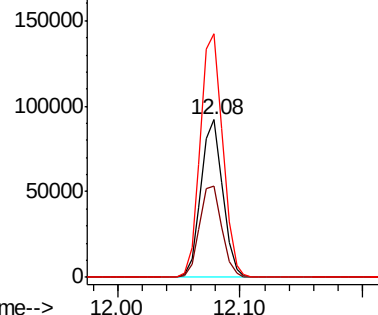
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

Instrument :
MSVOA_X
ClientSampleId :
S32-0657DL

Tot Ion:152 Resp: 113188
Ion Ratio Lower Upper
152 100
115 59.7 41.4 124.2
150 159.2 0.0 345.2



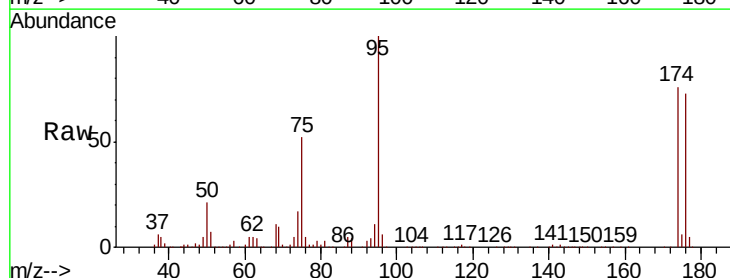
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



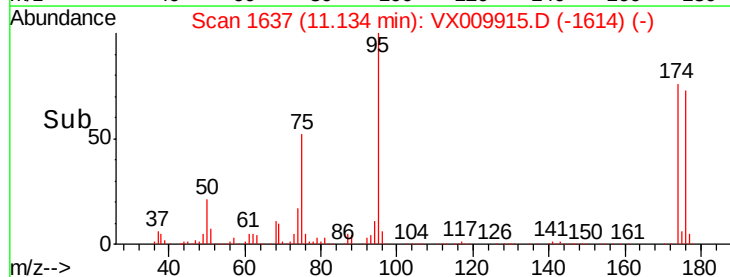
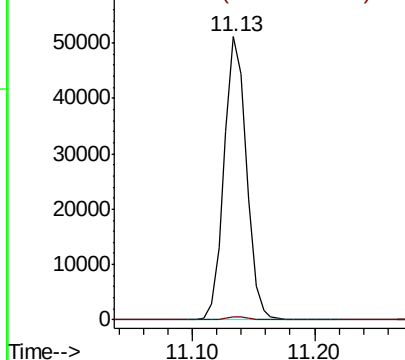
#76

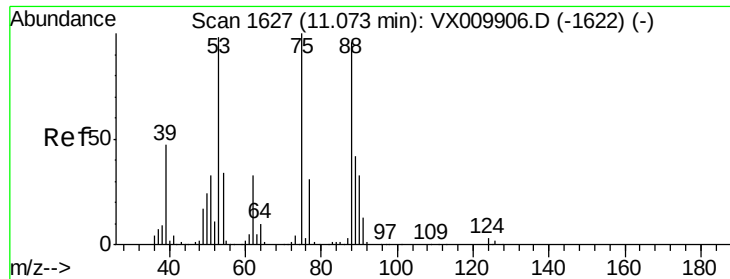
1,2,3-Trichloropropane
Concen: 23.910 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009915.D
Acq: 28 May 2019 15:23

Tgt Ion: 75 Resp: 64716
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





#81

trans-1,4-Dichloro-2-butene

Concen: 59.157 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009915.D

Acq: 28 May 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

S32-0657DL

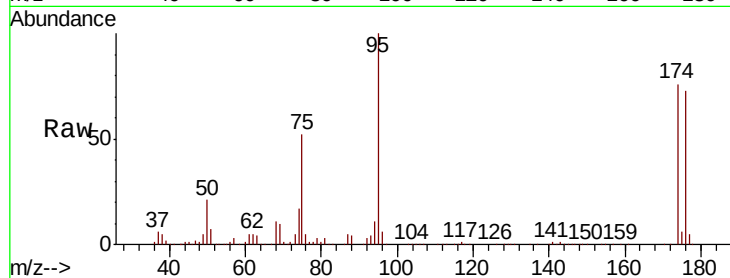
Tot Ion: 75 Resp: 64716

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#



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

