

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010419\
 Data File : VX006915.D
 Acq On : 04 Jan 2019 16:05
 Operator : JC/MD
 Sample : K1032-05DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0647DL

Quant Time: Jan 04 22:18:57 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	646819	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	982011	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	897520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	442489	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	336873	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
35) Dibromofluoromethane	5.50	113	303120	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.71	98	1168091	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	11.13	95	417545	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	

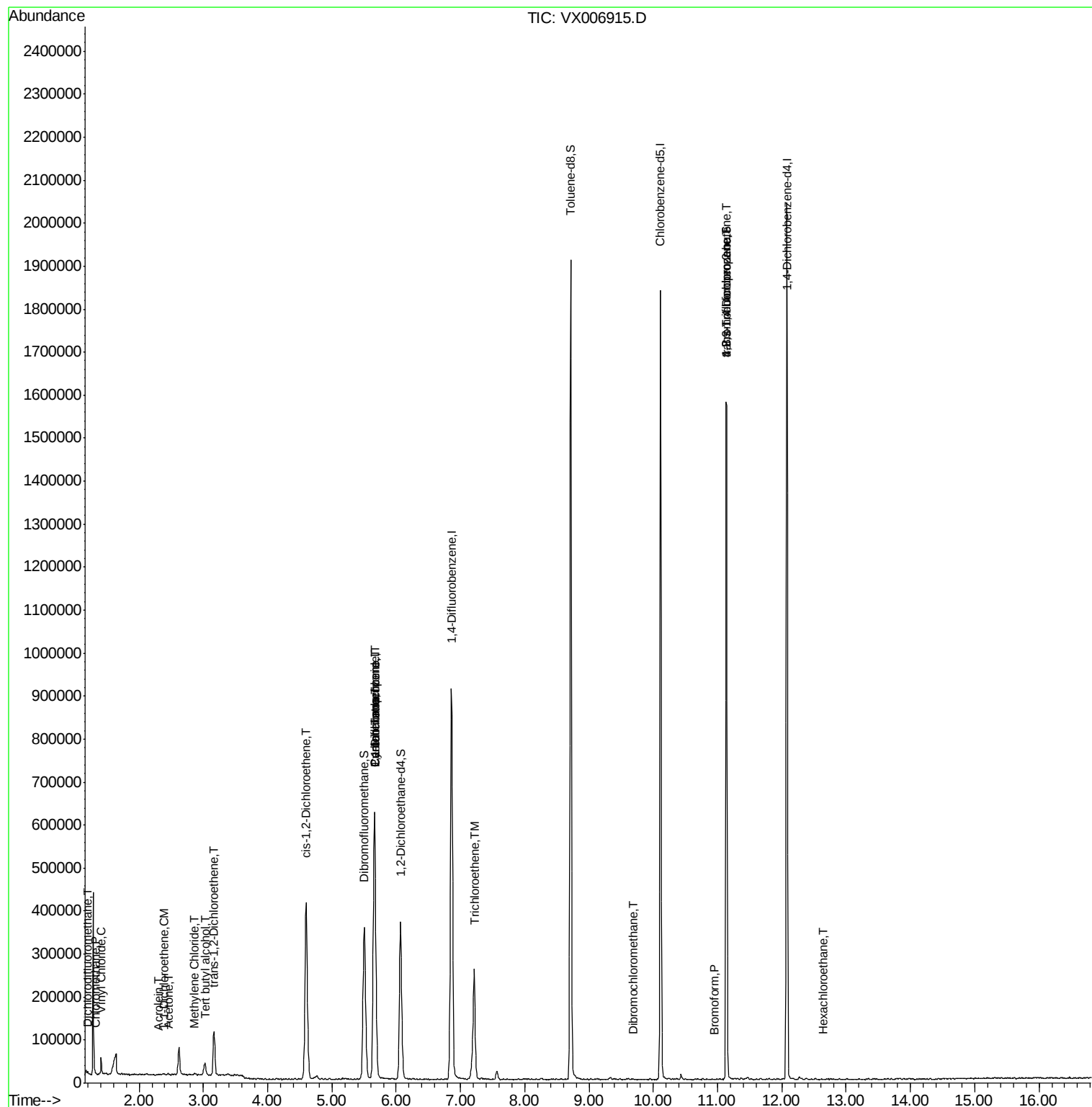
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	5093	0.861	ug/l	93
3) Chloromethane	1.33	50	3748	0.588	ug/l	94
4) Vinyl Chloride	1.41	62	23572	3.540	ug/l	94
5) Bromomethane	1.64	94	3617	Below Cal		82
11) Tert butyl alcohol	3.03	59	18498	11.890	ug/l #	76
12) 1,1-Dichloroethene	2.39	96	1611	0.279	ug/l #	61
13) Acrolein	2.29	56	387	0.369	ug/l #	74
16) Acetone	2.45	43	4469	1.395	ug/l	99
20) Methylene Chloride	2.86	84	1998	0.302	ug/l #	95
21) trans-1,2-Dichloroethene	3.17	96	43953	6.864	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	276660	39.160	ug/l	92
28) Bromochloromethane	5.01	49	175	Below Cal	#	51
31) Cyclohexane	5.66	56	11058	1.146	ug/l #	7
36) 1,1-Dichloropropene	5.67	75	41650	5.121	ug/l #	49
38) Carbon Tetrachloride	5.66	117	58482	7.399	ug/l #	13
44) Trichloroethene	7.21	130	98694	13.190	ug/l	98
49) 1,4-Dioxane	7.77	88	19	Below Cal	#	1
60) Dibromochloromethane	9.68	129	84	2.336	ug/l	92
71) Bromoform	10.94	173	92	4.476	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	196332	23.875	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	196332	70.741	ug/l #	10
90) Hexachloroethane	12.63	117	96	3.315	ug/l	80

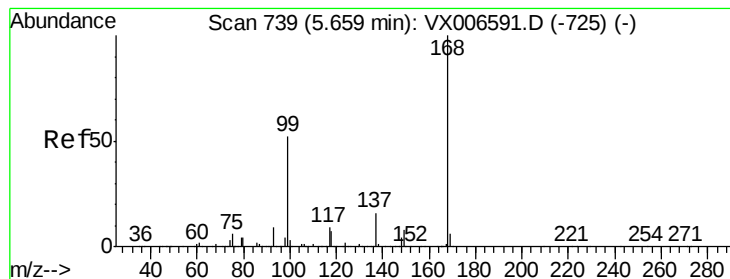
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampleId :

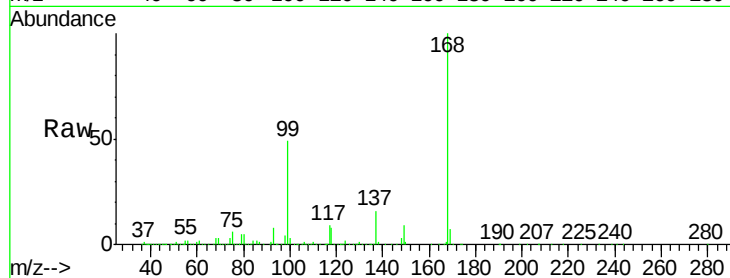
S32-0647DL

Tot Ion:168 Resp: 646819

Ion Ratio Lower Upper

168 100

99 49.1 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

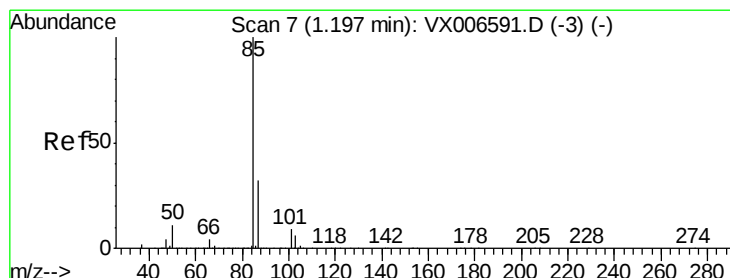
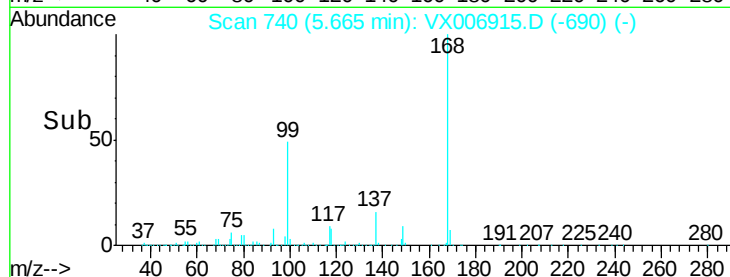
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.861 ug/l

RT: 1.20 min Scan# 7

Delta R.T. -0.00 min

Lab File: VX006915.D

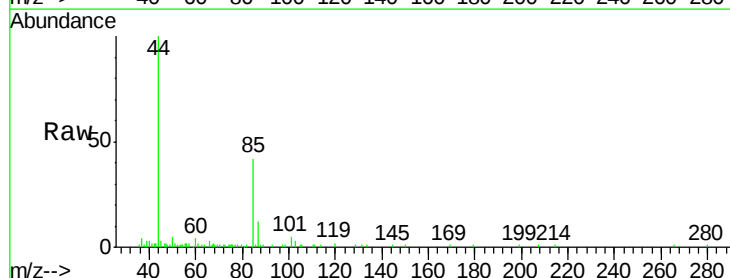
Acq: 04 Jan 2019 16:05

Tgt Ion: 85 Resp: 5093

Ion Ratio Lower Upper

85 100

87 27.8 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

5000

4000

3000

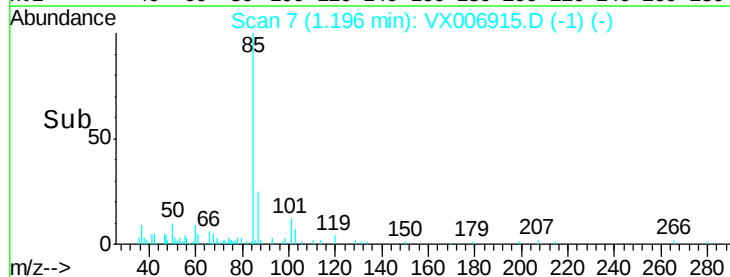
2000

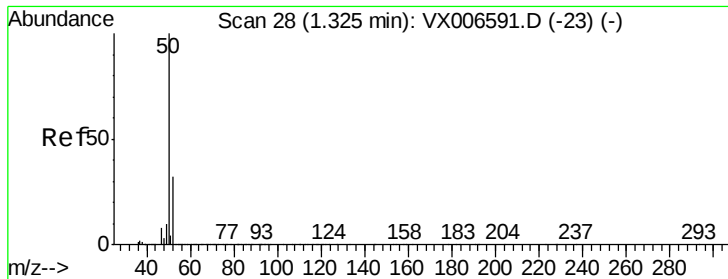
1000

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 0.588 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

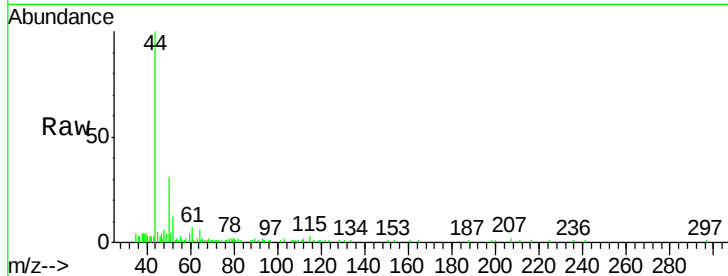
S32-0647DL

Tot Ion: 50 Resp: 3748

Ion Ratio Lower Upper

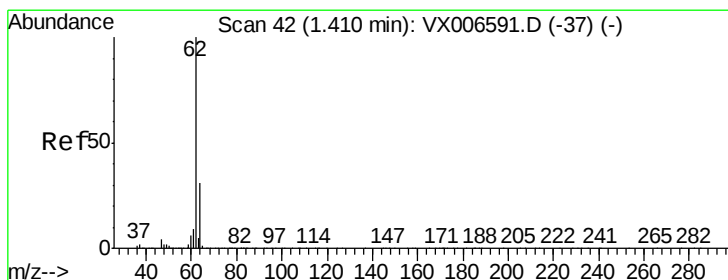
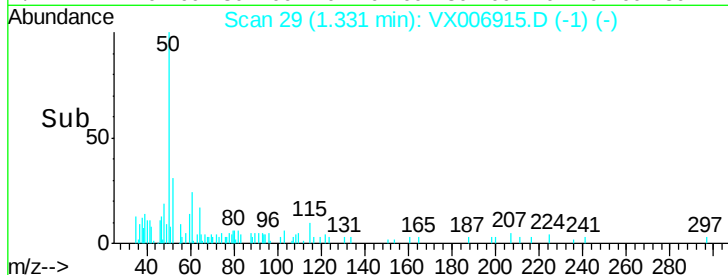
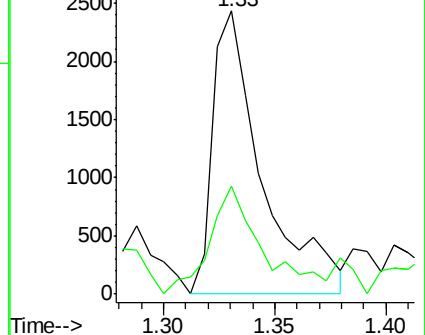
50 100

52 34.9 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 3.540 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006915.D

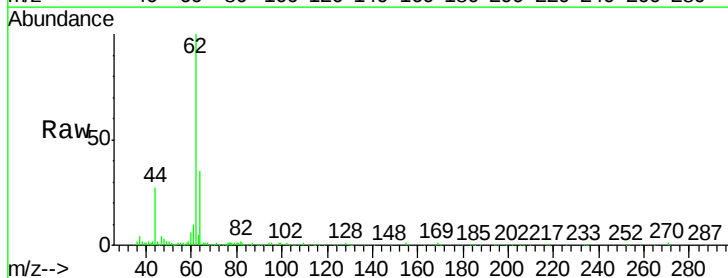
Acq: 04 Jan 2019 16:05

Tgt Ion: 62 Resp: 23572

Ion Ratio Lower Upper

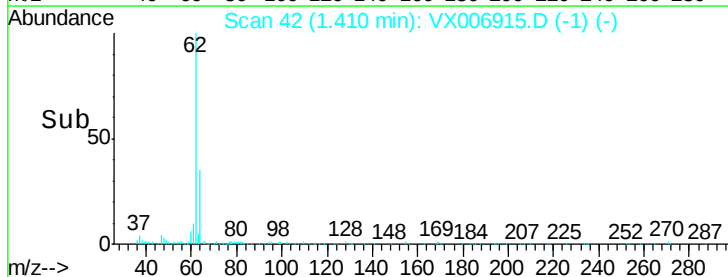
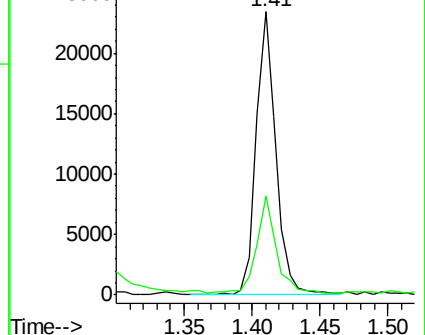
62 100

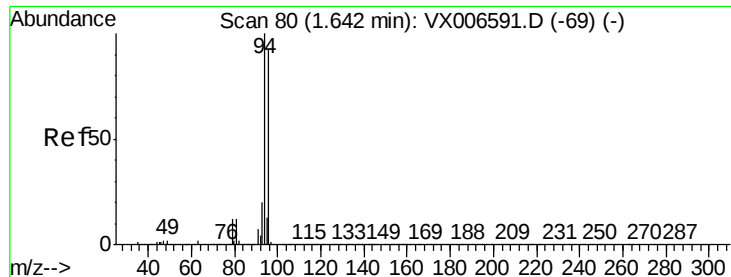
64 34.6 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampleId :

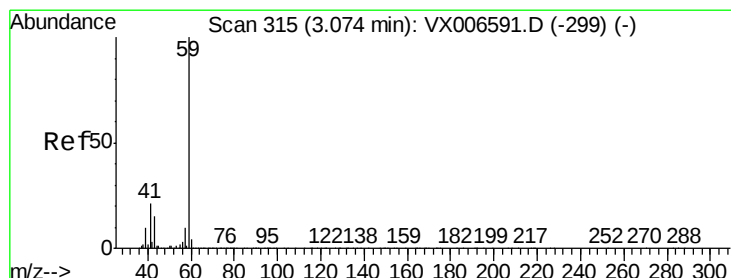
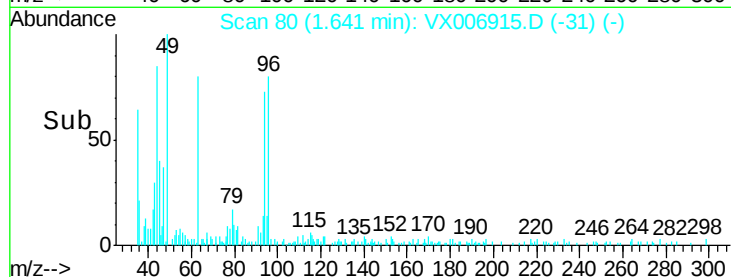
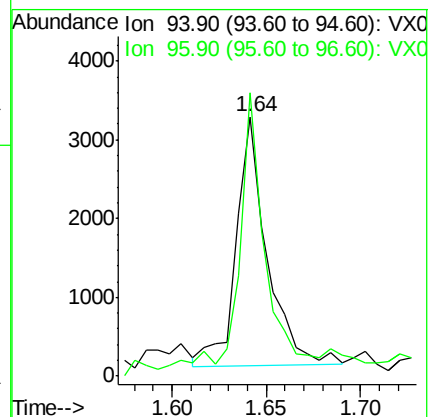
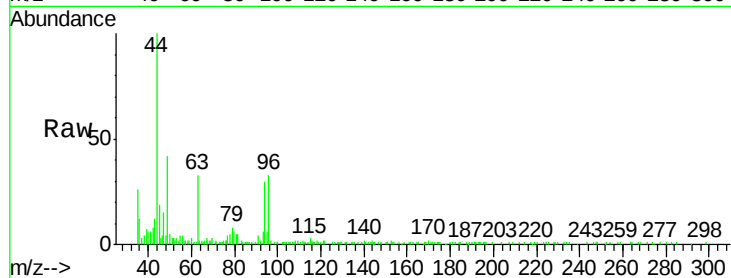
S32-0647DL

Tot Ion: 94 Resp: 3617

Ion Ratio Lower Upper

94 100

96 109.0 73.4 110.2



#11

Tert butyl alcohol

Concen: 11.890 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006915.D

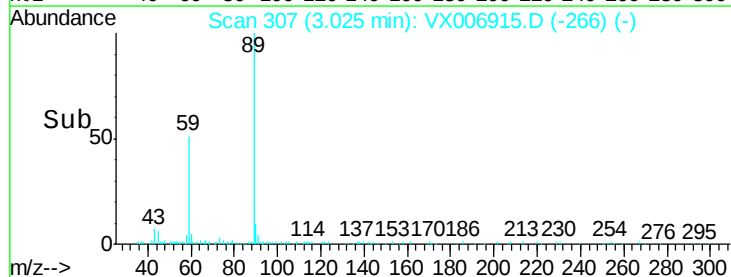
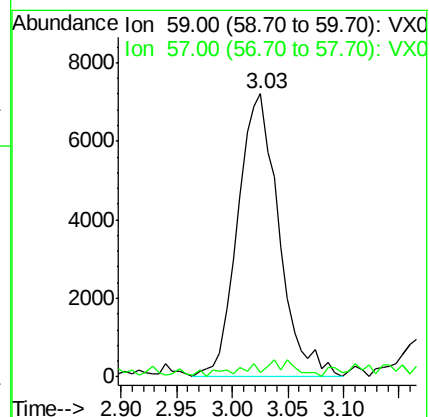
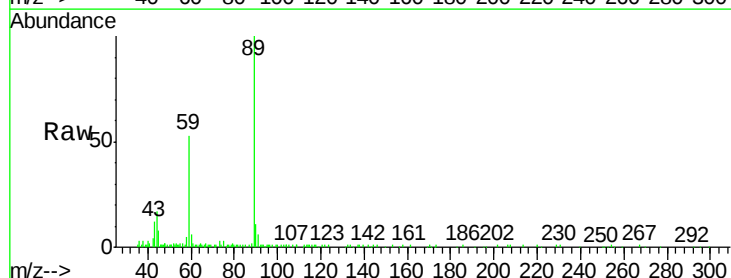
Acq: 04 Jan 2019 16:05

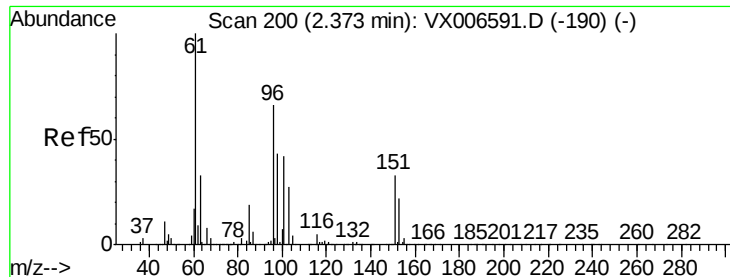
Tgt Ion: 59 Resp: 18498

Ion Ratio Lower Upper

59 100

57 1.4 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 0.279 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

S32-0647DL

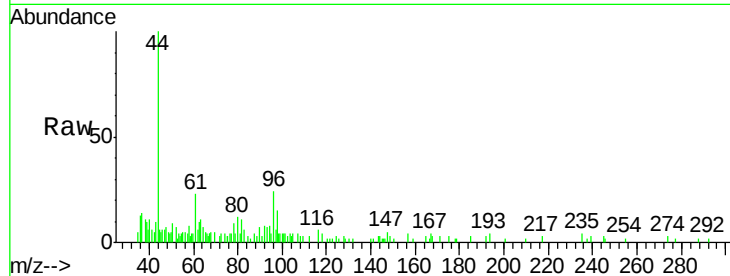
Tot Ion: 96 Resp: 1611

Ion Ratio Lower Upper

96 100

61 95.6 121.4 182.2#

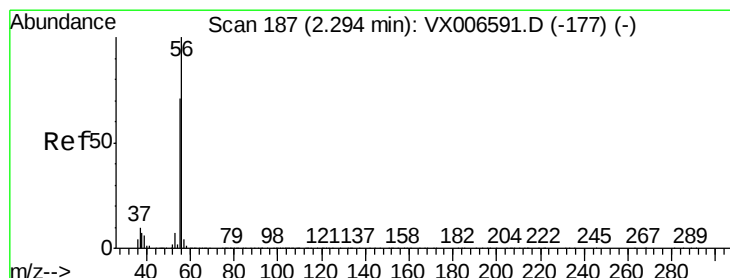
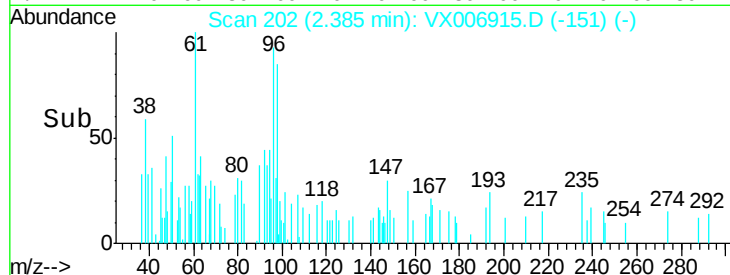
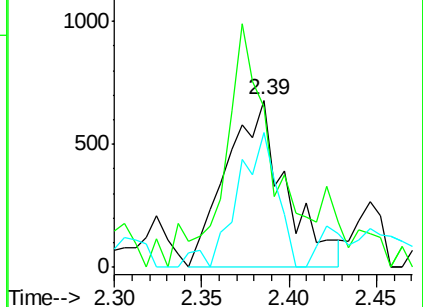
98 85.6 51.9 77.9#



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



#13

Acrolein

Concen: 0.369 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX006915.D

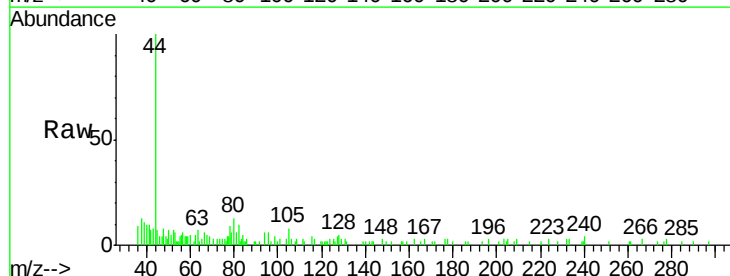
Acq: 04 Jan 2019 16:05

Tgt Ion: 56 Resp: 387

Ion Ratio Lower Upper

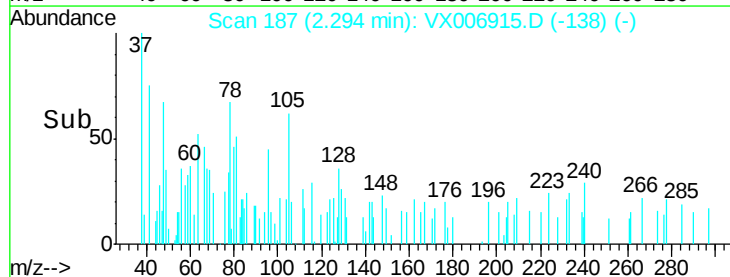
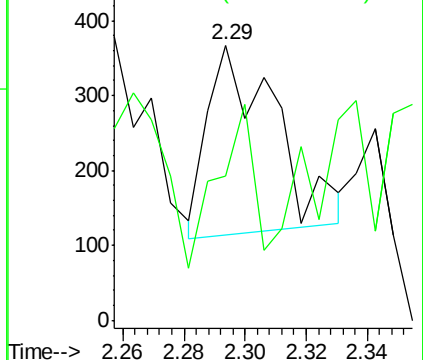
56 100

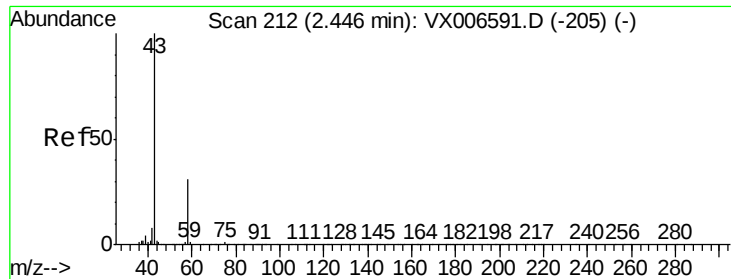
55 50.9 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.395 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

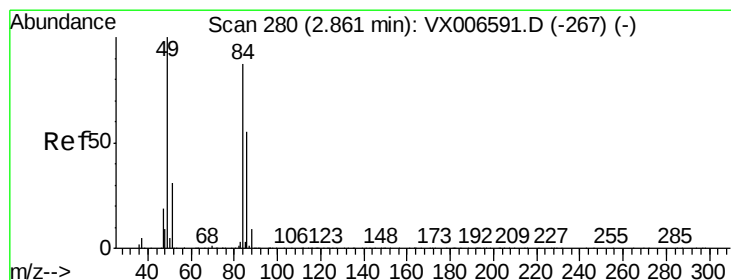
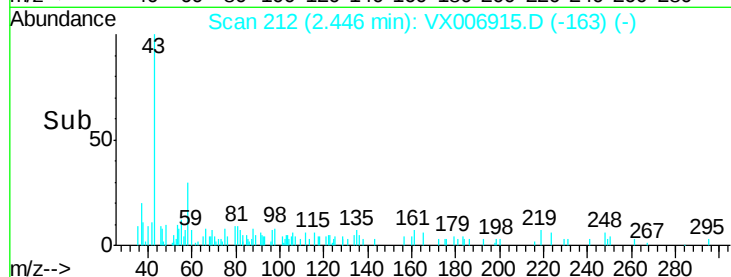
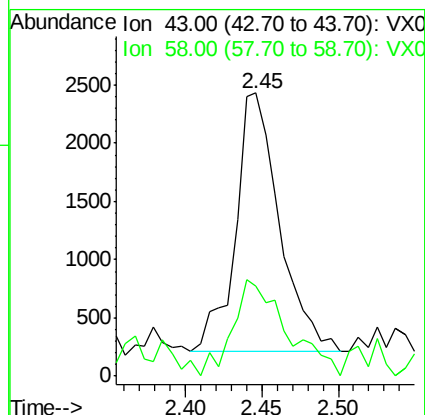
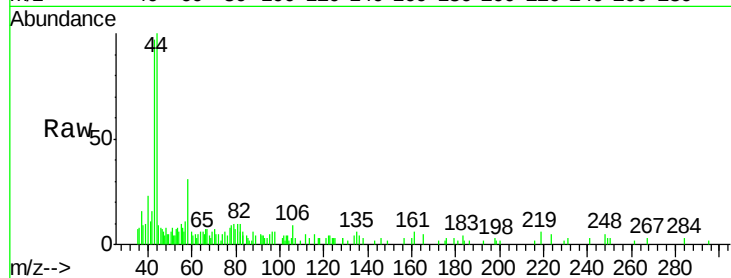
S32-0647DL

Tot Ion: 43 Resp: 4469

Ion Ratio Lower Upper

43 100

58 30.5 25.0 37.6



#20

Methylene Chloride

Concen: 0.302 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Tgt Ion: 84 Resp: 1998

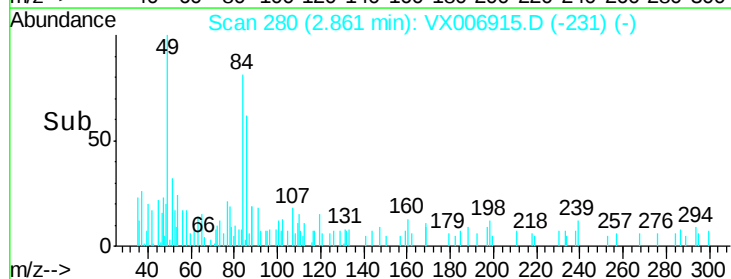
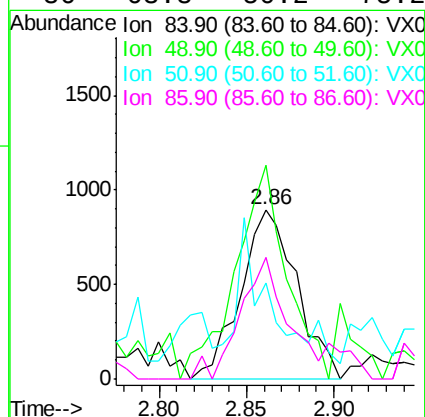
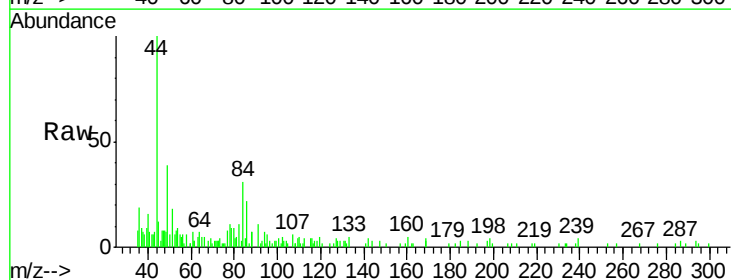
Ion Ratio Lower Upper

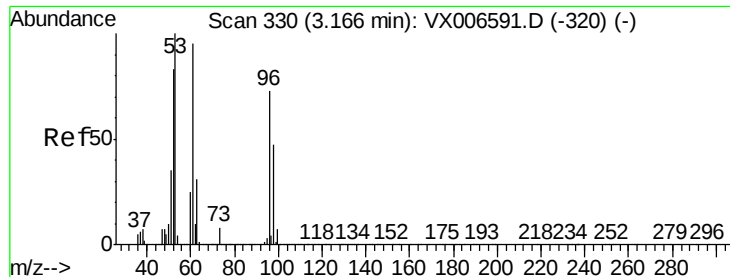
84 100

49 111.5 91.8 137.6

51 47.9 28.5 42.7#

86 63.8 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 6.864 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampleId :

S32-0647DL

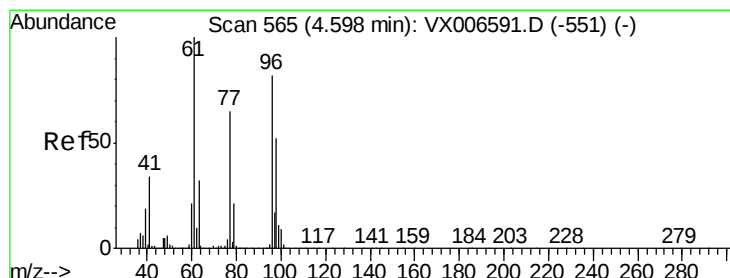
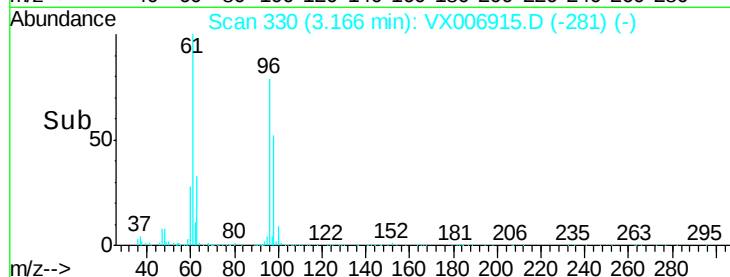
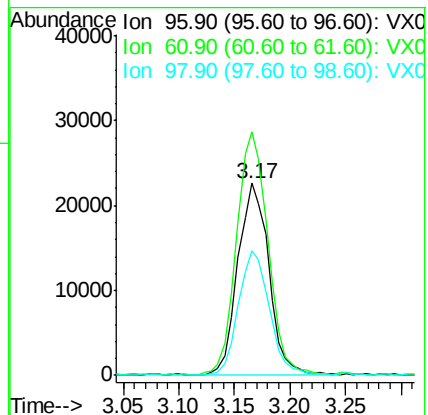
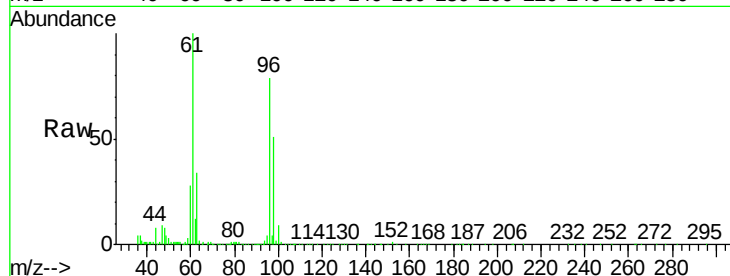
Tot Ion: 96 Resp: 43953

Ion Ratio Lower Upper

96 100

61 126.2 103.7 155.5

98 64.7 51.0 76.6



#27

cis-1,2-Dichloroethene

Concen: 39.160 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

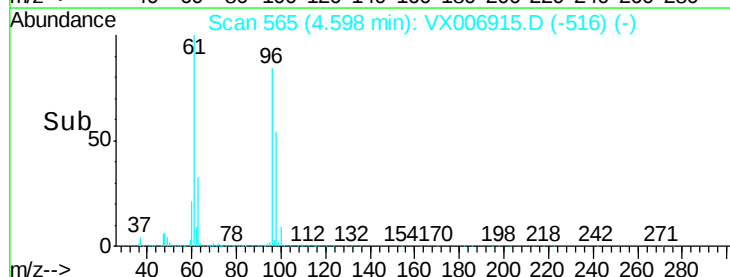
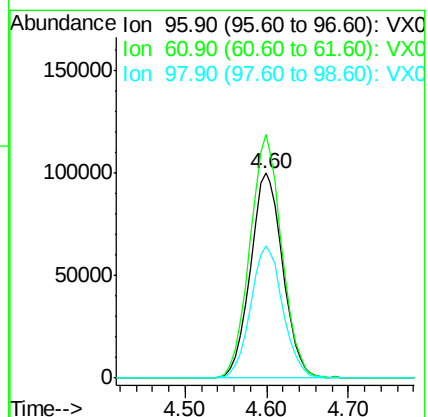
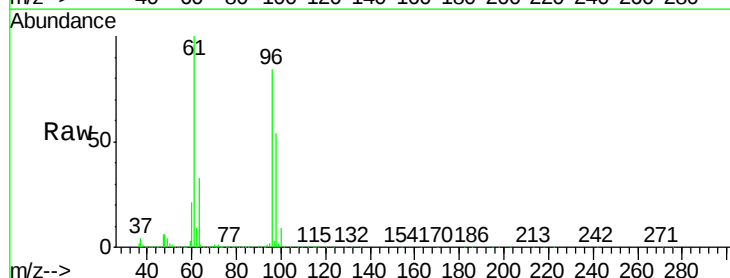
Tgt Ion: 96 Resp: 276660

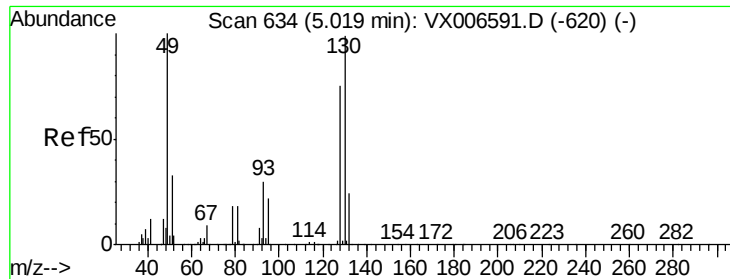
Ion Ratio Lower Upper

96 100

61 116.2 0.0 258.6

98 64.2 0.0 132.0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

S32-0647DL

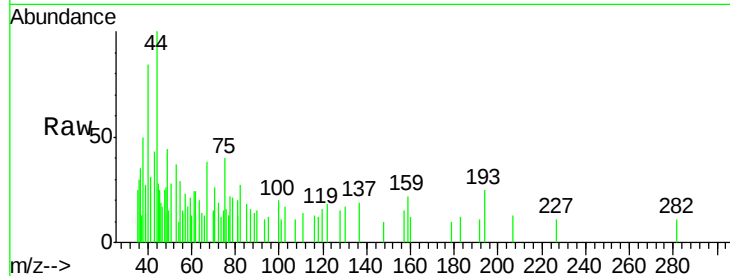
Tot Ion: 49 Resp: 175

Ion Ratio Lower Upper

49 100

129 44.0 0.0 5.4#

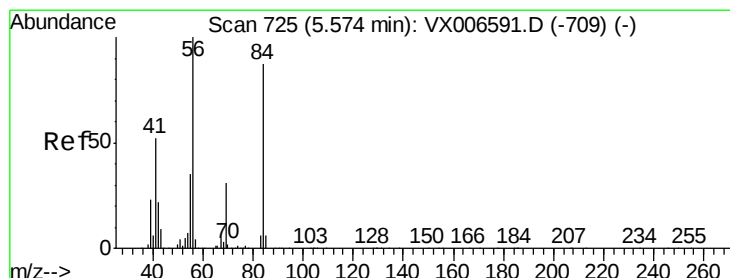
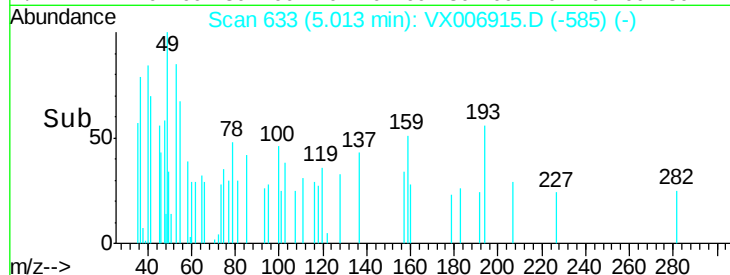
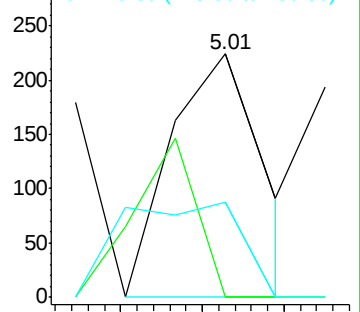
130 51.4 77.7 116.5#



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



#31

Cyclohexane

Concen: 1.146 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

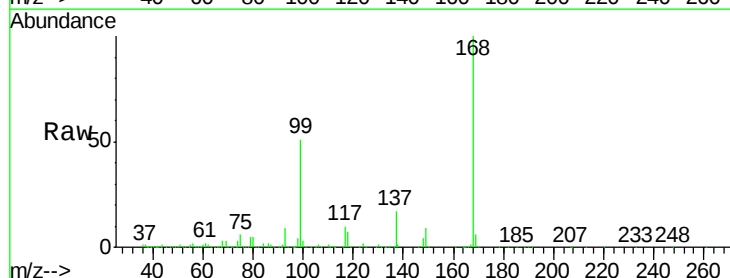
Tgt Ion: 56 Resp: 11058

Ion Ratio Lower Upper

56 100

69 179.8 24.4 36.6#

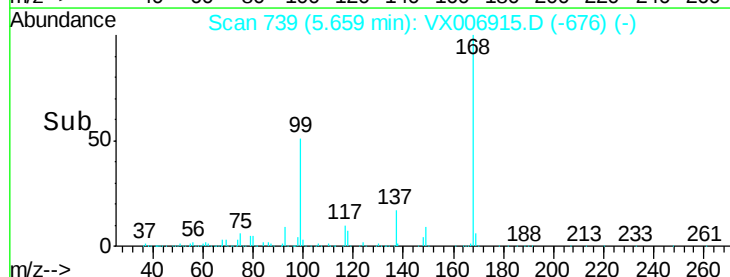
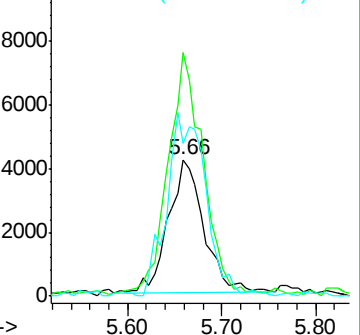
84 115.8 70.0 105.0#

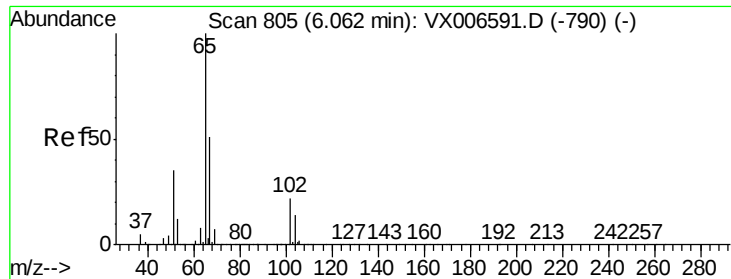


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.324 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

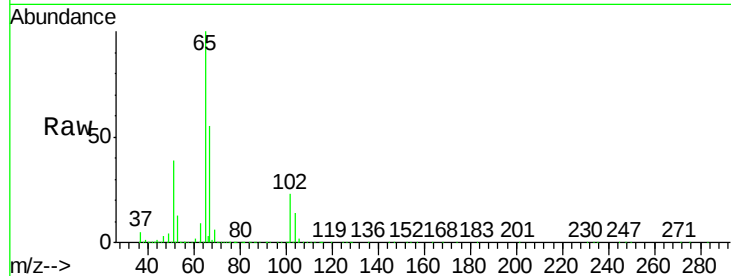
S32-0647DL

Tot Ion: 65 Resp: 336873

Ion Ratio Lower Upper

65 100

67 53.9 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

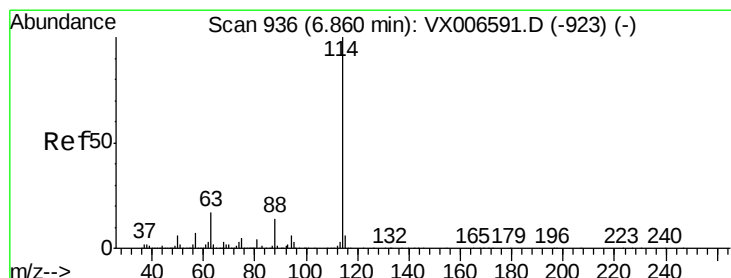
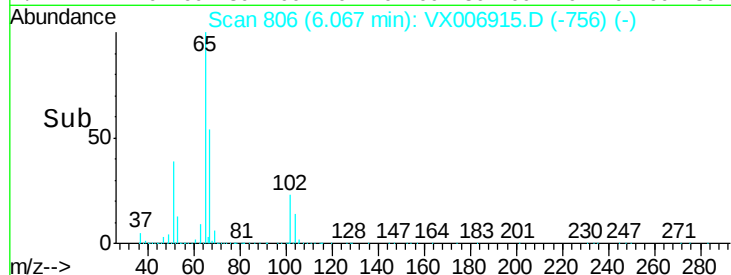
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

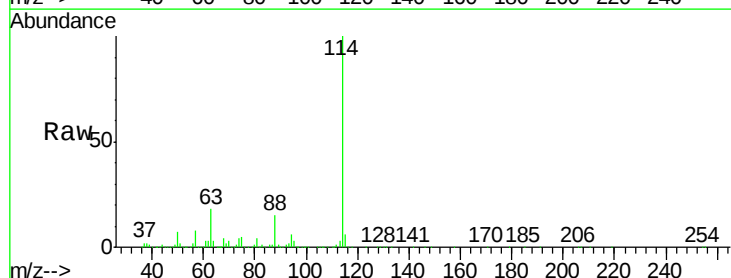
Tgt Ion: 114 Resp: 982011

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

88 14.6 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

6.86

500000

400000

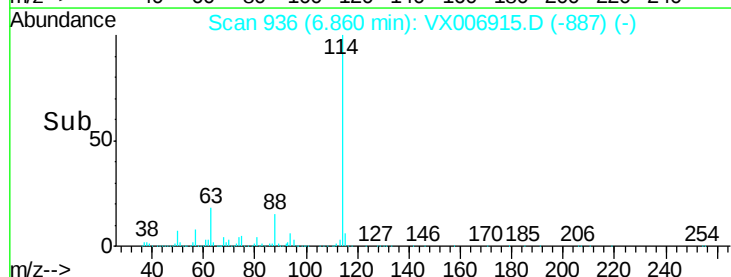
300000

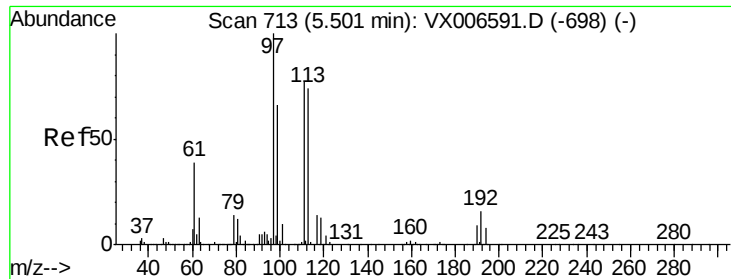
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.811 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

S32-0647DL

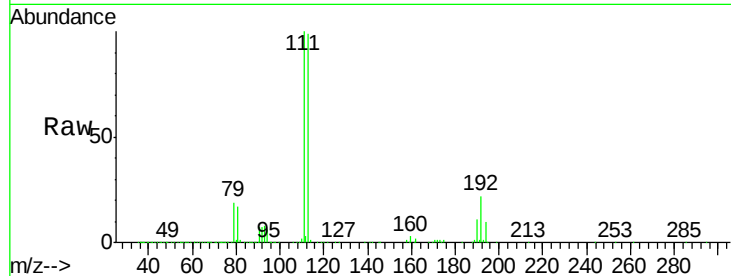
Tot Ion:113 Resp: 303120

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

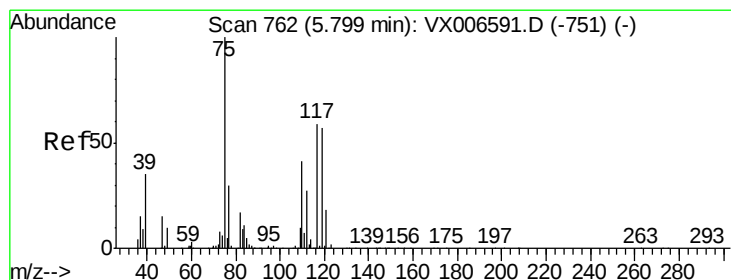
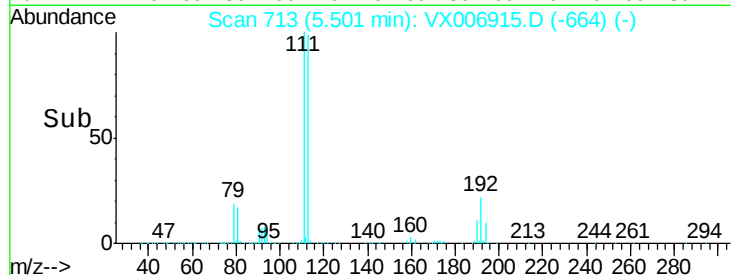
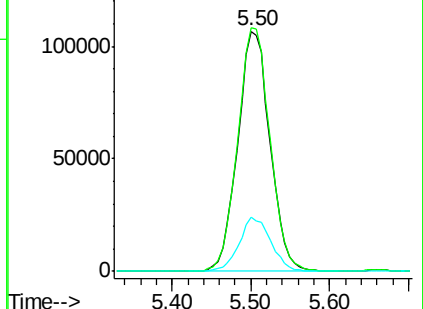
192 22.3 16.7 25.1



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: 5.121 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

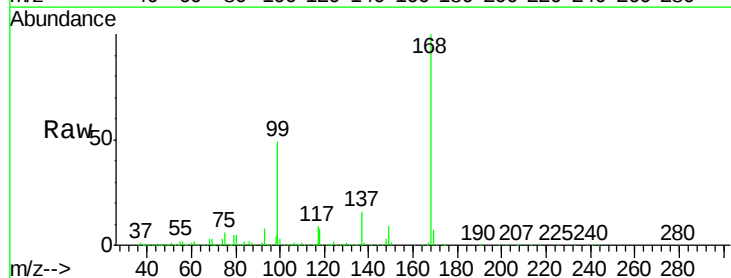
Tgt Ion: 75 Resp: 41650

Ion Ratio Lower Upper

75 100

110 10.5 20.2 60.5#

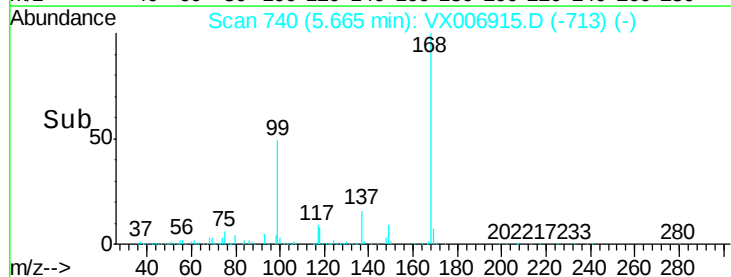
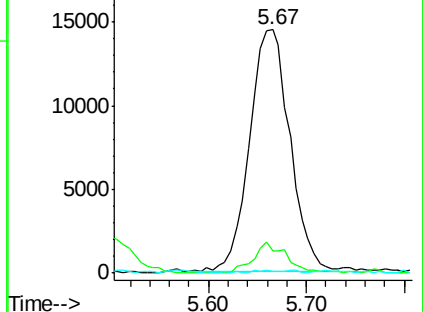
77 0.6 24.8 37.2#

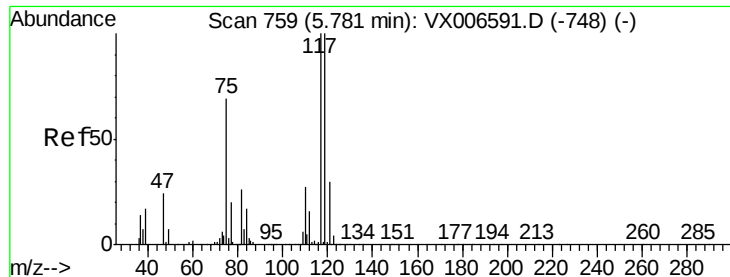


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.399 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

S32-0647DL

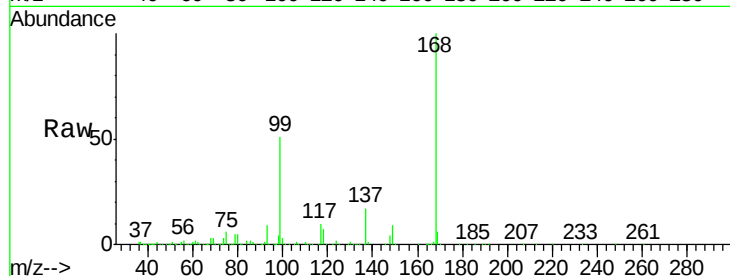
Tot Ion:117 Resp: 58482

Ion Ratio Lower Upper

117 100

119 3.4 79.4 119.2#

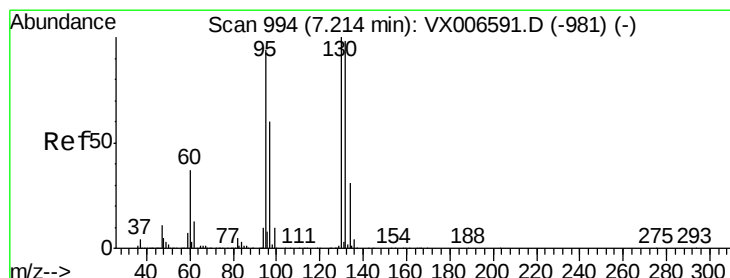
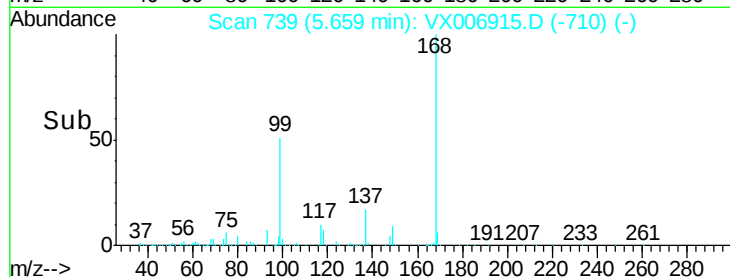
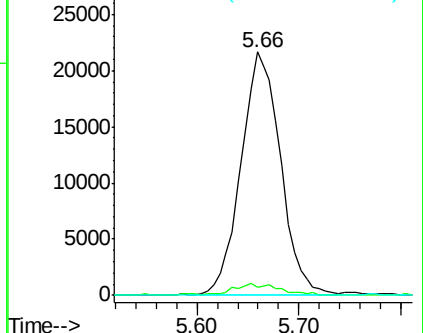
121 0.0 24.0 36.0#



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: 13.190 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006915.D

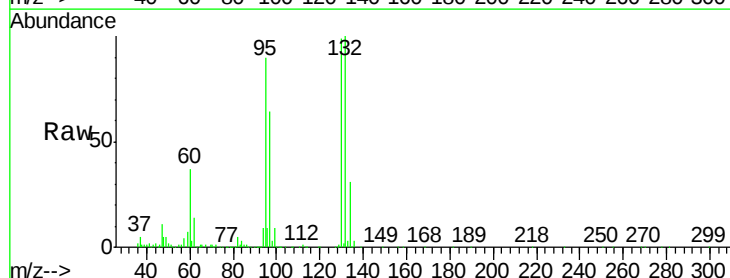
Acq: 04 Jan 2019 16:05

Tgt Ion:130 Resp: 98694

Ion Ratio Lower Upper

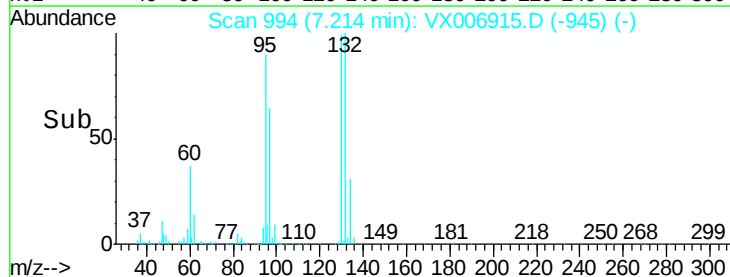
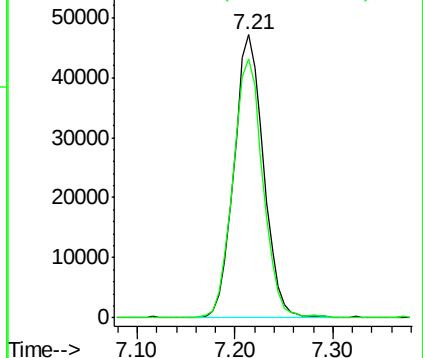
130 100

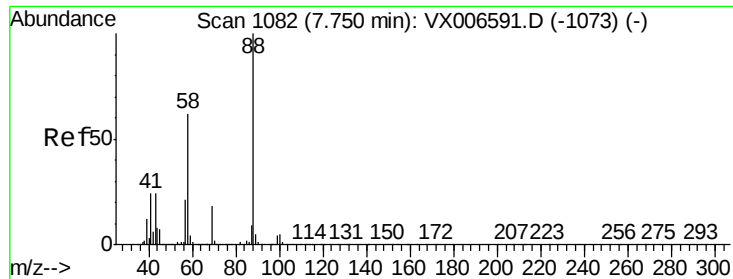
95 91.2 0.0 187.0



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: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

S32-0647DL

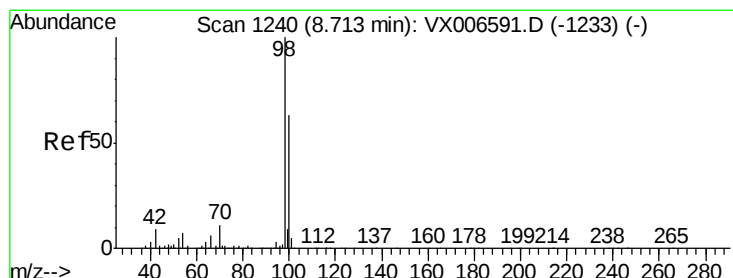
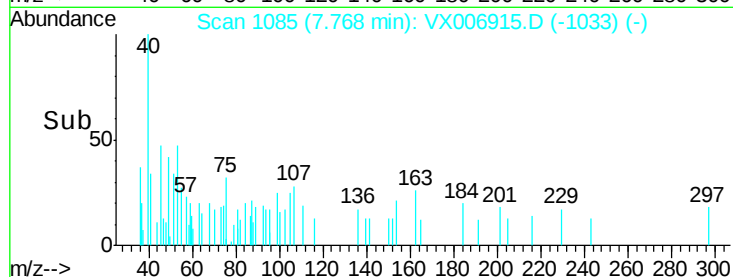
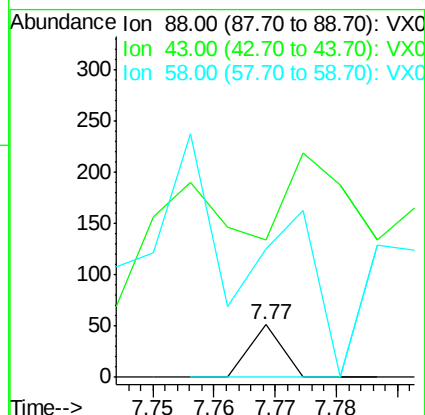
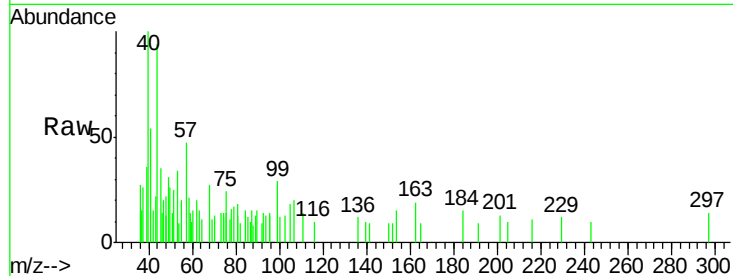
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1363.2 22.2 33.4#

58 678.9 51.0 76.4#



#50

Toluene-d8

Concen: 49.893 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006915.D

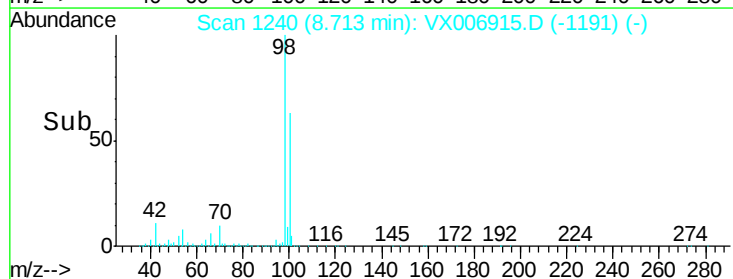
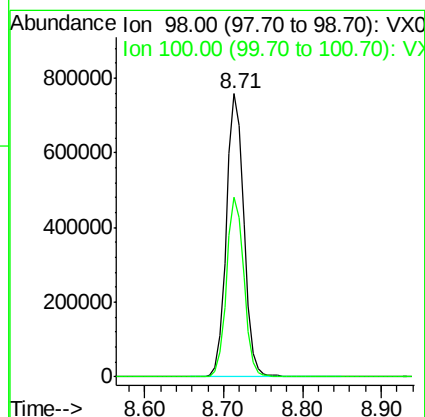
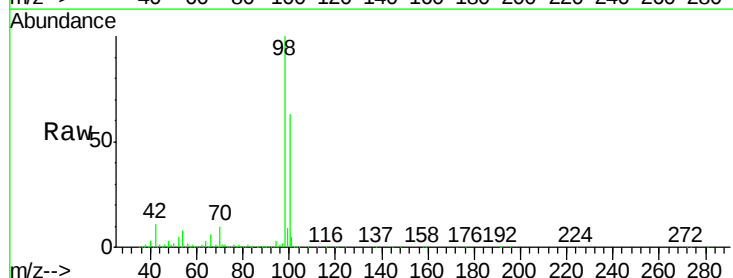
Acq: 04 Jan 2019 16:05

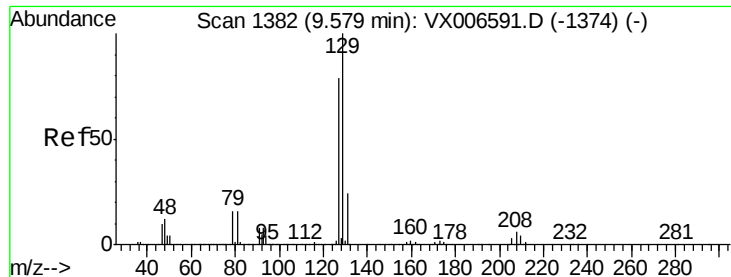
Tgt Ion: 98 Resp: 1168091

Ion Ratio Lower Upper

98 100

100 63.5 52.0 78.0





#60

Dibromochloromethane

Concen: 2.336 ug/l

RT: 9.68 min Scan# 1399

Delta R.T. 0.10 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampleId :

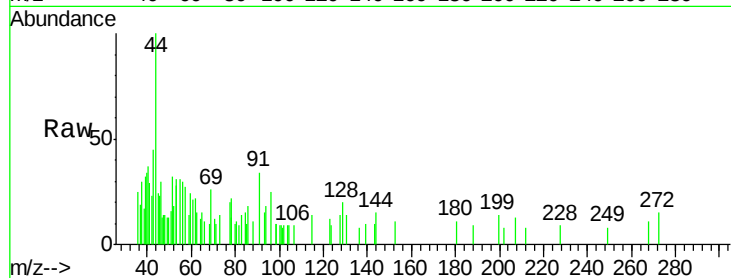
S32-0647DL

Tot Ion:129 Resp: 84

Ion Ratio Lower Upper

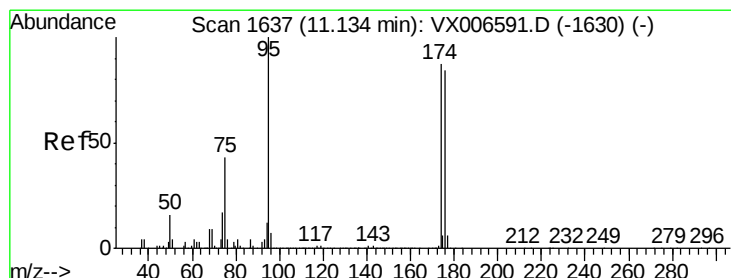
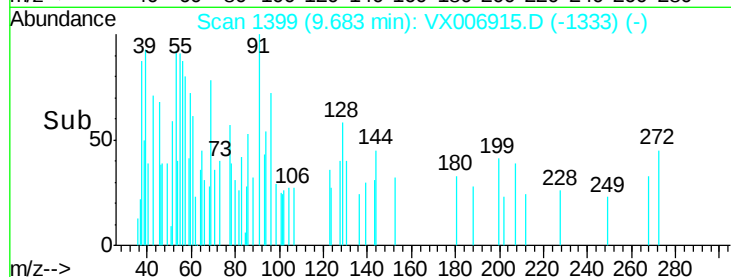
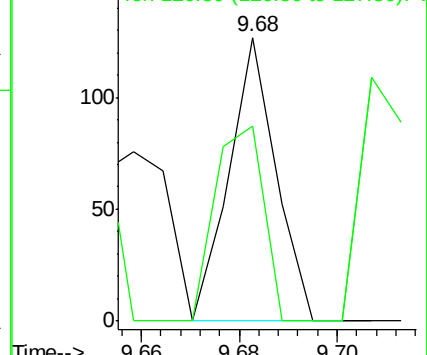
129 100

127 71.4 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: 48.696 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

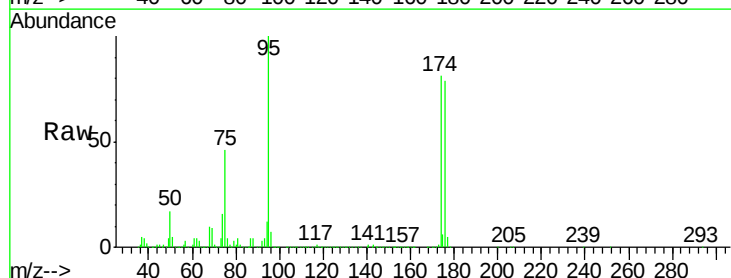
Tgt Ion: 95 Resp: 417545

Ion Ratio Lower Upper

95 100

174 90.5 0.0 182.2

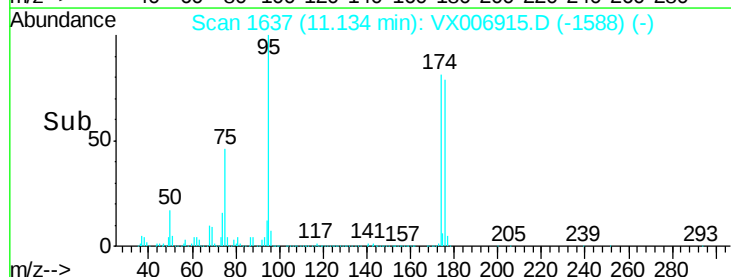
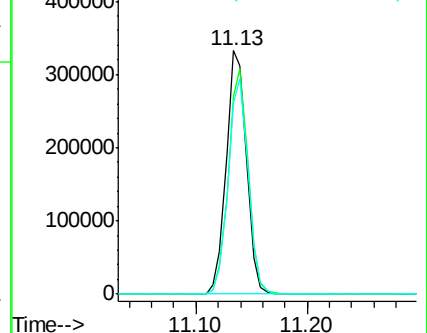
176 87.4 0.0 178.8

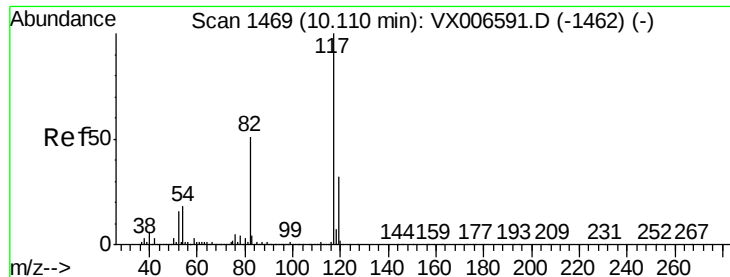


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampled :

S32-0647DL

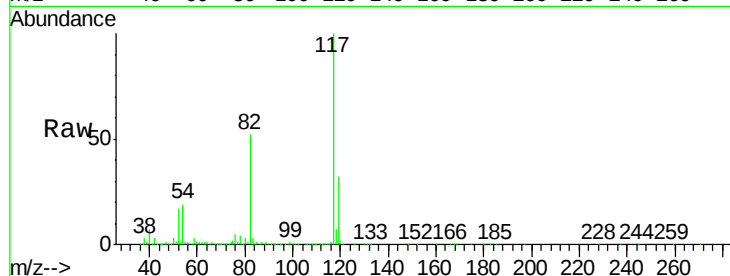
Tot Ion:117 Resp: 897520

Ion Ratio Lower Upper

117 100

82 52.4 41.0 61.6

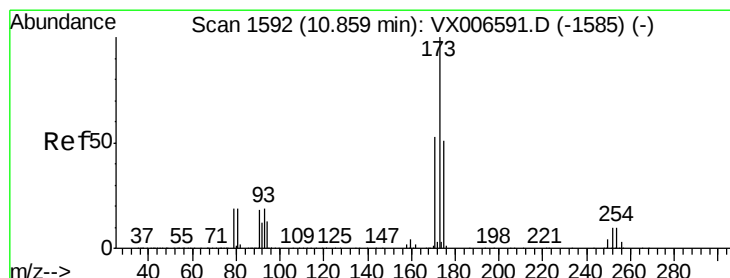
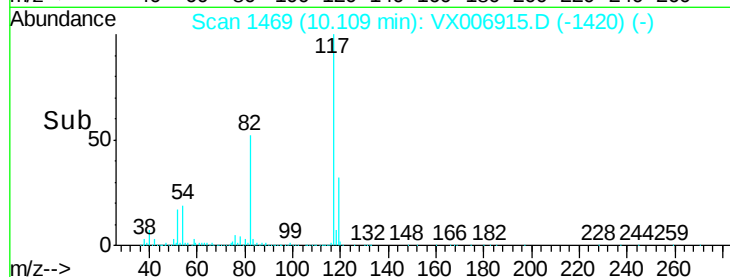
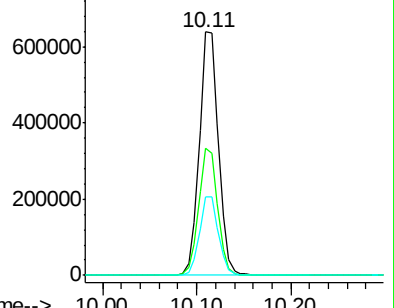
119 32.0 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 4.476 ug/l

RT: 10.94 min Scan# 1606

Delta R.T. 0.09 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

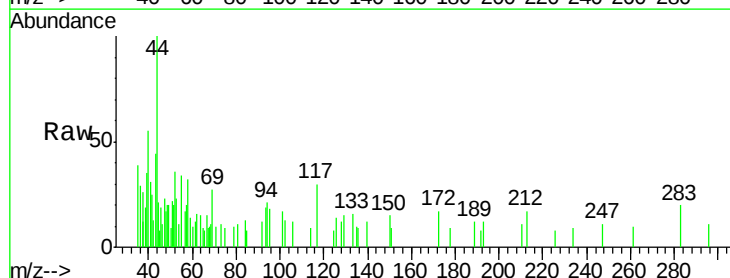
Tgt Ion:173 Resp: 92

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

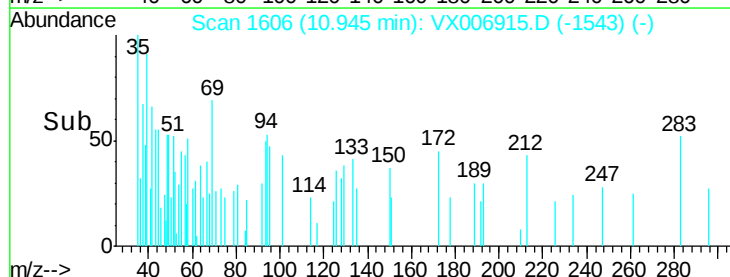
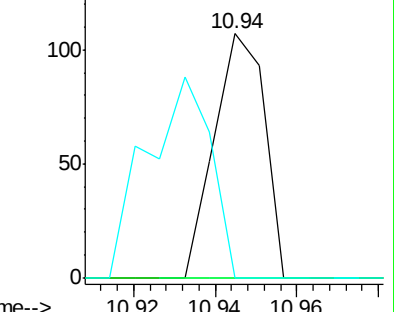
254 104.3 0.2 0.2#

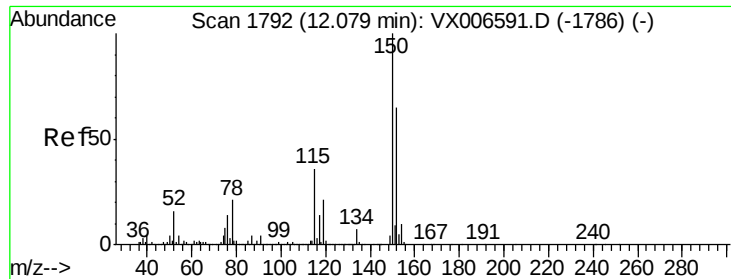


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampleId :

S32-0647DL

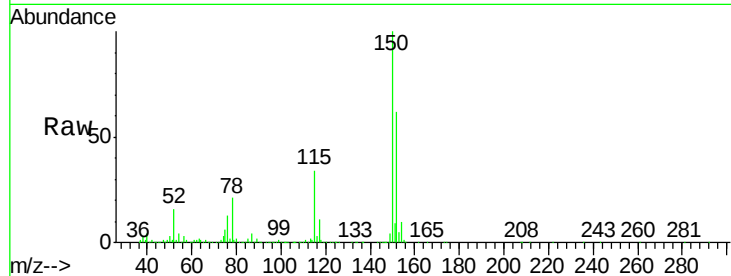
Tot Ion:152 Resp: 442489

Ion Ratio Lower Upper

152 100

115 54.7 39.1 117.2

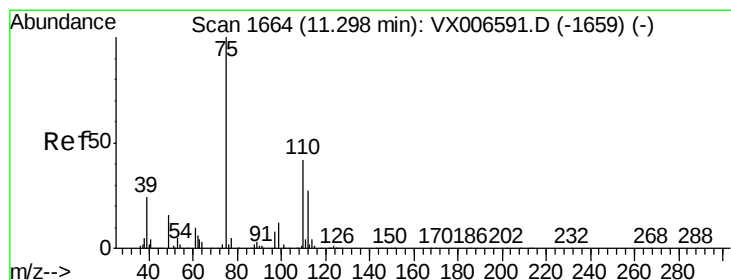
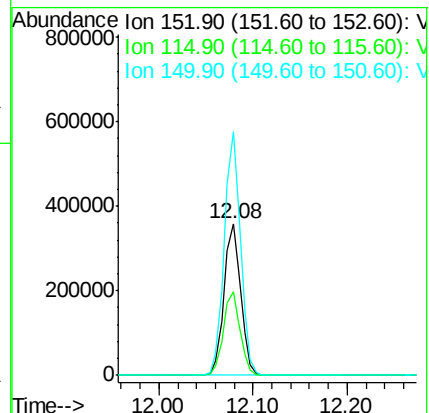
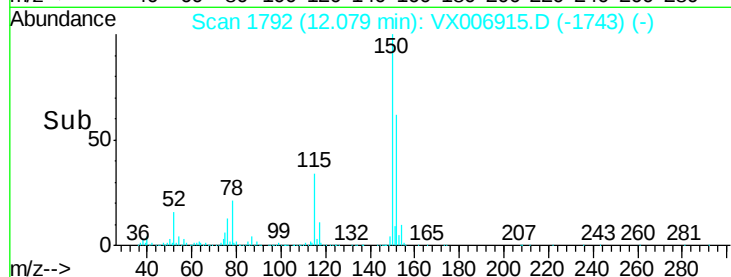
150 156.0 0.0 344.8



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: 23.875 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006915.D

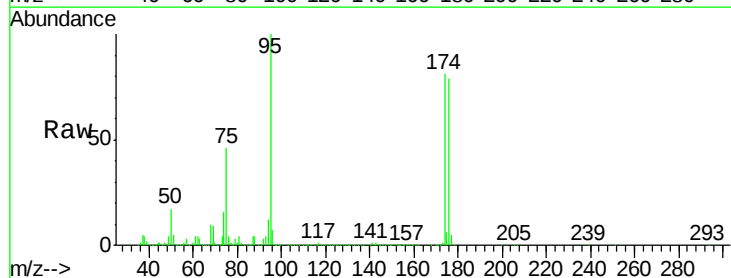
Acq: 04 Jan 2019 16:05

Tgt Ion: 75 Resp: 196332

Ion Ratio Lower Upper

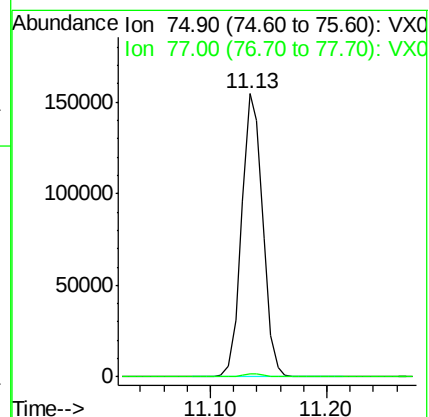
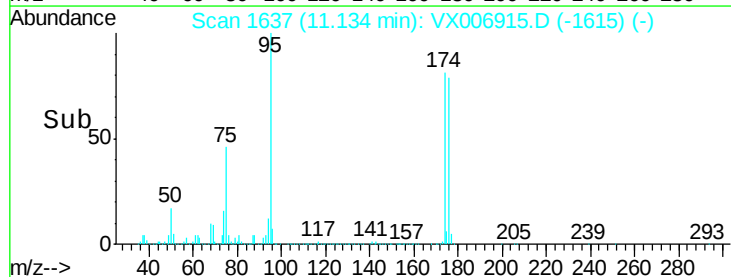
75 100

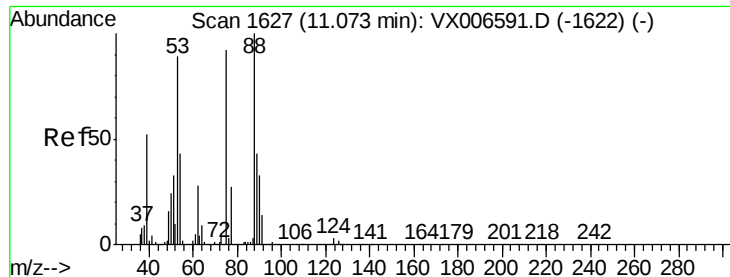
77 1.2 18.5 55.5#



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: 70.741 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006915.D

Acq: 04 Jan 2019 16:05

Instrument :

MSVOA_X

ClientSampleId :

S32-0647DL

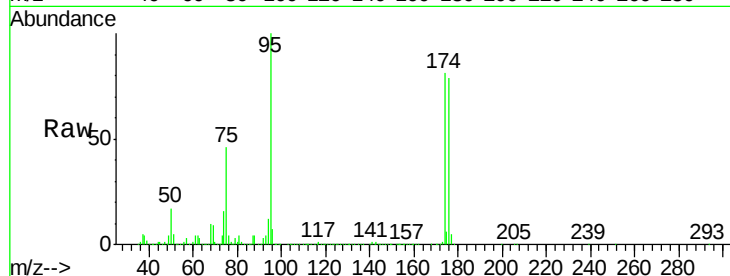
Tot Ion: 75 Resp: 196332

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

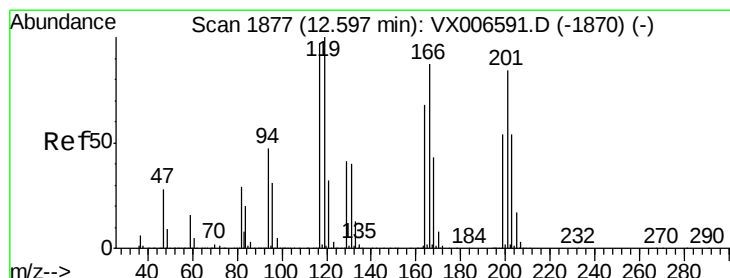
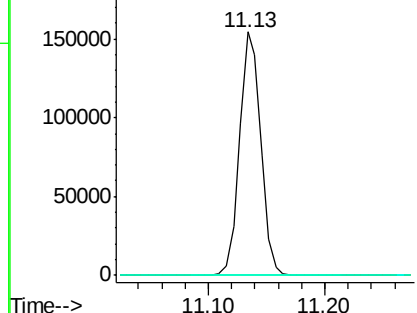
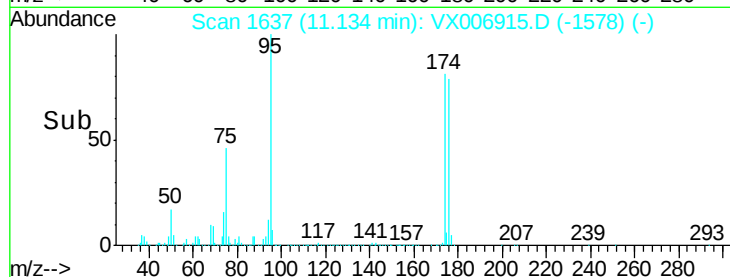
89 0.1 38.0 57.0#



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: 3.315 ug/l

RT: 12.63 min Scan# 1883

Delta R.T. 0.04 min

Lab File: VX006915.D

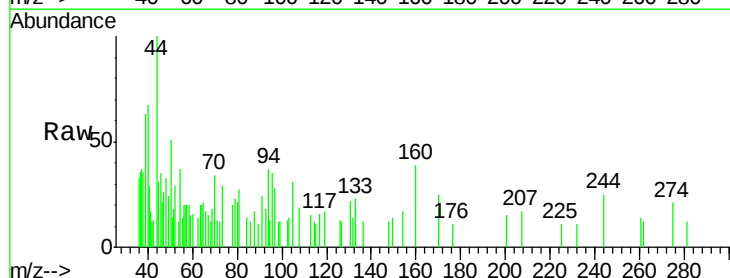
Acq: 04 Jan 2019 16:05

Tgt Ion: 117 Resp: 96

Ion Ratio Lower Upper

117 100

201 67.7 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

