

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101818\
 Data File : VV008344.D
 Acq On : 18 Oct 2018 15:32
 Operator : SY/MD
 Sample : J5422-01
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 19 05:28:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 19 05:24:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	106000	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	93059	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	37642	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	32465	5.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.40%
7) Chloroethane-d5	1.58	69	21907	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.13	63	48602	4.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.60%
20) 2-Butanone-d5	3.96	46	93592	46.58	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.16%
24) Chloroform-d	4.41	84	62576	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.09	65	32158	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
32) Benzene-d6	5.10	84	135629	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.12	67	47329	5.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.20%
41) Toluene-d8	7.36	98	120621	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
43) trans-1,3-Dichloropropene-	7.67	79	12619	3.38	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	67.60%
46) 2-Hexanone-d5	8.14	63	58529	44.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.48%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	26915	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	11.68	152	37286	5.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	2281	0.274	ug/L	96
5) Vinyl chloride	1.32	62	7734	0.981	ug/L #	50
8) Chloroethane	1.48	64	22352	5.452	ug/L #	51
12) 1,1-Dichloroethene	2.13	96	649	0.127	ug/L #	1
13) Acetone	2.21	43	3824	3.518	ug/L	88
14) Carbon disulfide	2.32	76	8711	0.497	ug/L	100
15) Methyl Acetate	2.46	43	1909	0.706	ug/L #	50
16) Methylene chloride	2.54	84	702	0.119	ug/L	93
22) cis-1,2-Dichloroethene	3.96	96	8207	0.928	ug/L #	92
25) Chloroform	4.43	83	1890	0.136	ug/L #	73
33) Benzene	5.15	78	5861	0.187	ug/L	100
34) Trichloroethene	5.96	95	13385	1.540	ug/L	98
35) Methylcyclohexane	6.12	83	9997	0.682	ug/L #	17
37) 1,2-Dichloropropane	6.12	63	4753	0.562	ug/L #	90
39) cis-1,3-Dichloropropene	7.03	75	879	0.073	ug/L #	35
42) Toluene	7.43	91	10408	0.318	ug/L	97
47) Tetrachloroethene	8.02	164	4808	0.883	ug/L	91

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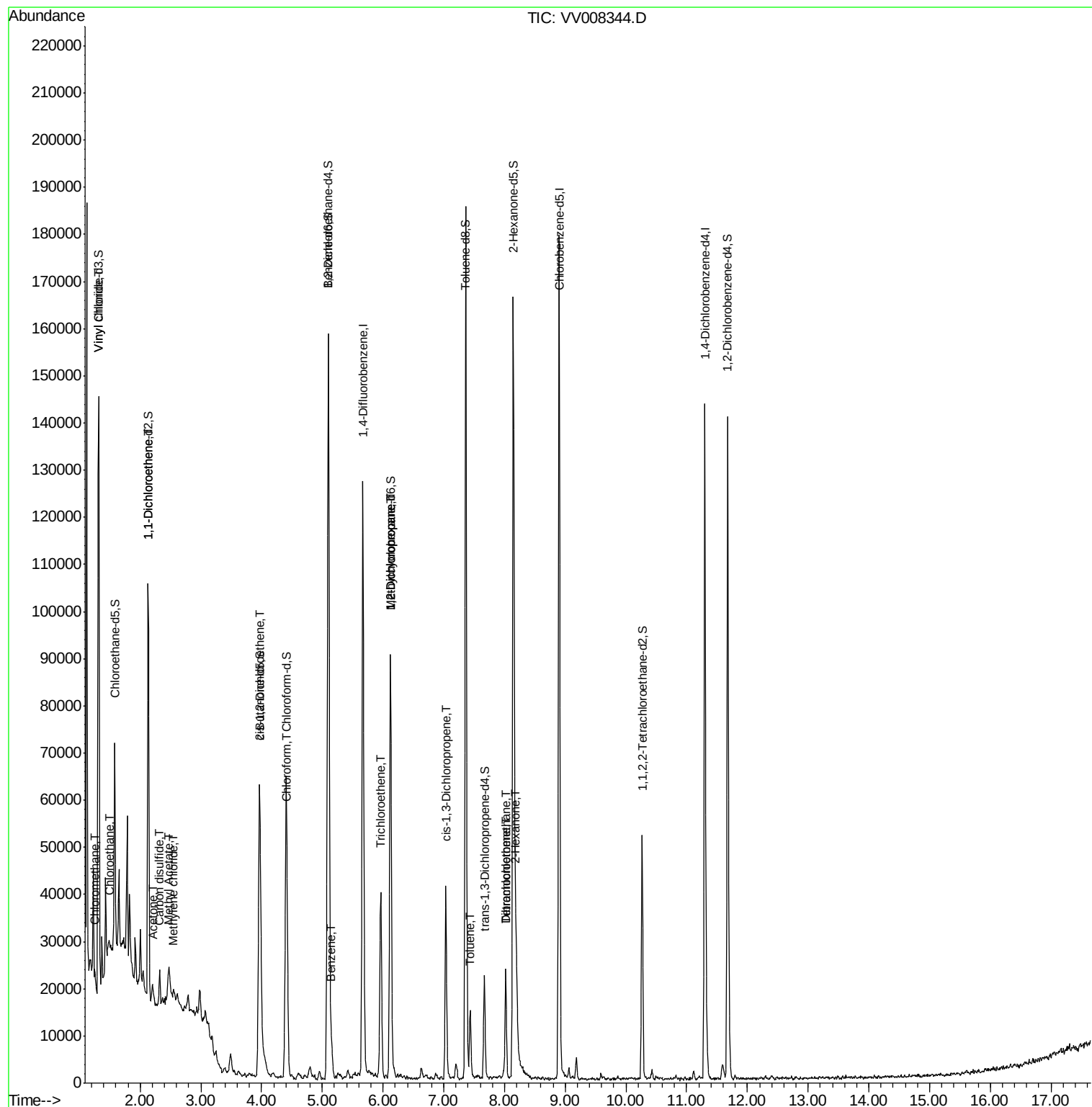
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.19	43	16835	4.445	ug/L #	91
49) Dibromochloromethane	8.02	129	4229	0.706	ug/L #	10

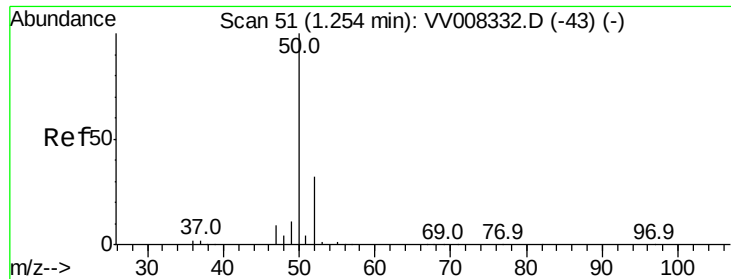
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.274 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

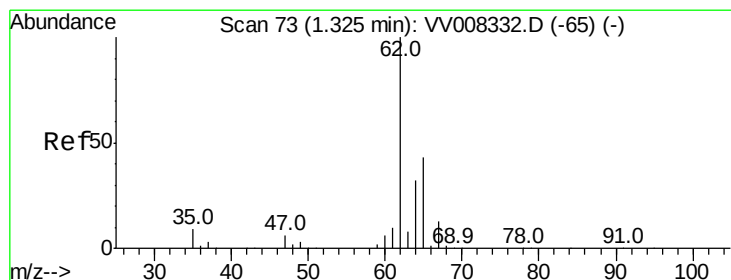
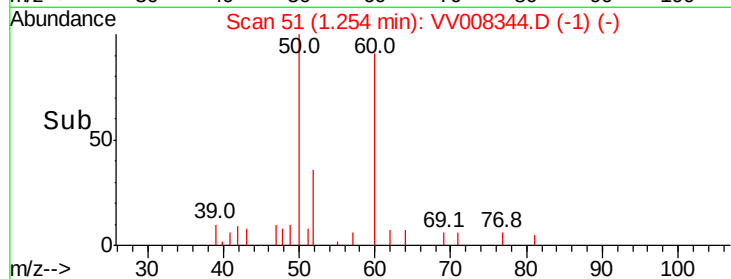
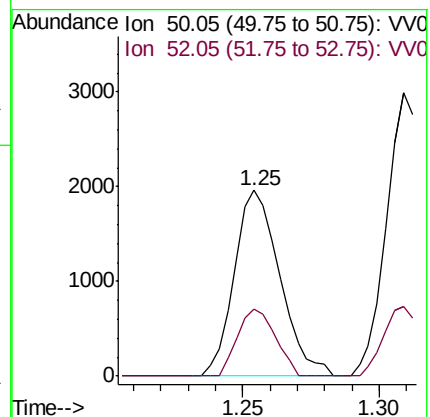
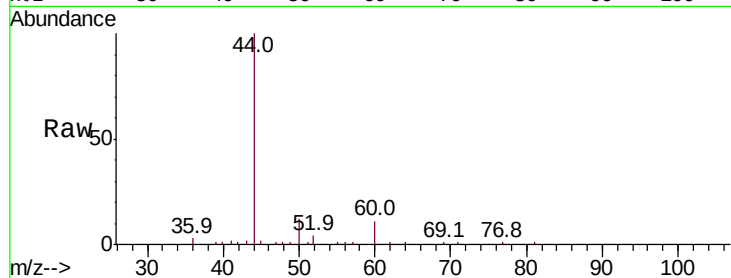
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 2281

Ion Ratio Lower Upper

50 100

52 36.0 23.7 43.9



#5

Vinyl chloride

Concen: 0.981 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV008344.D

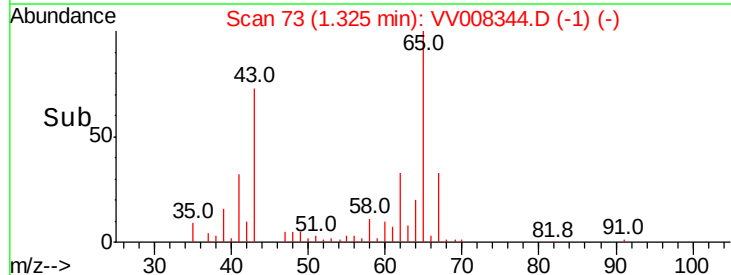
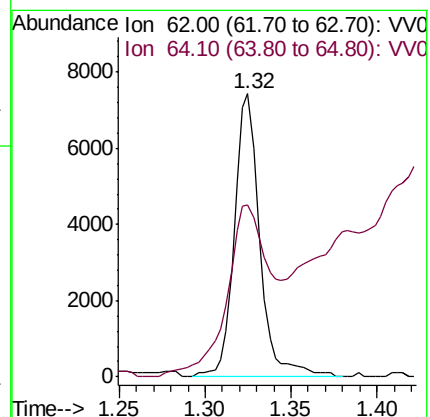
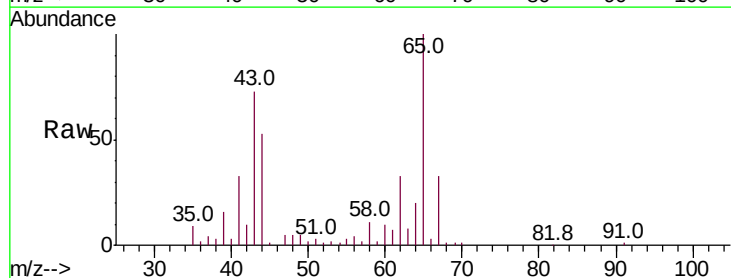
Acq: 18 Oct 2018 15:32

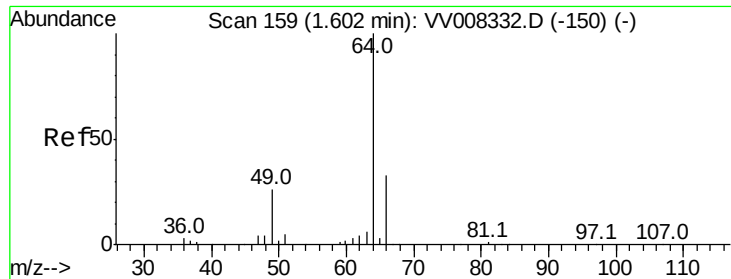
Tgt Ion: 62 Resp: 7734

Ion Ratio Lower Upper

62 100

64 60.9 22.9 42.5#





#8

Chloroethane

Concen: 5.452 ug/L

RT: 1.48 min Scan# 122

Delta R.T. -0.12 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

Instrument :

MSVOA_V

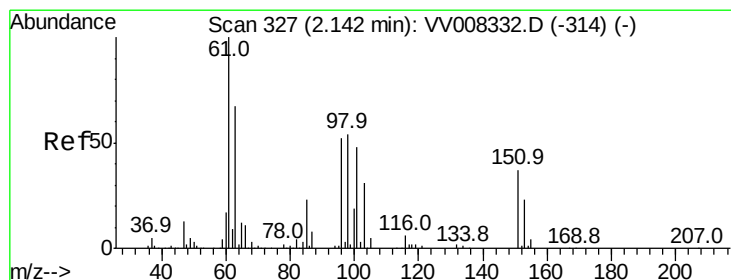
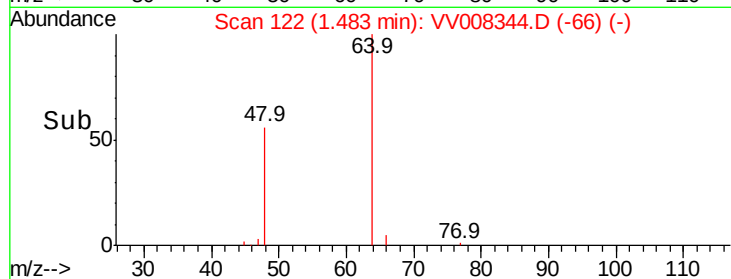
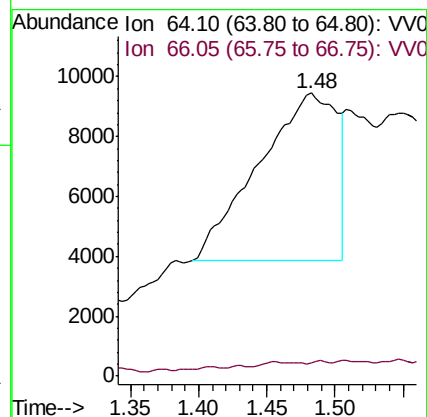
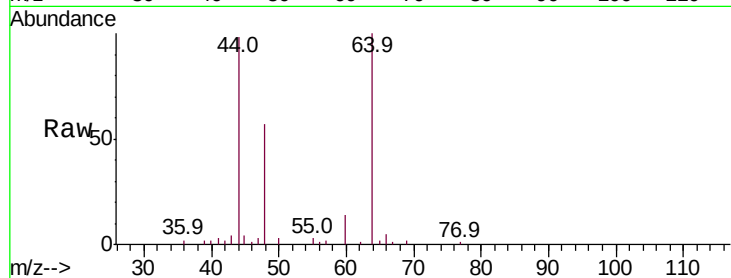
ClientSampled :

Tot Ion: 64 Resp: 22352

Ion Ratio Lower Upper

64 100

66 4.6 22.5 41.9#



#12

1,1-Dichloroethene

Concen: 0.127 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

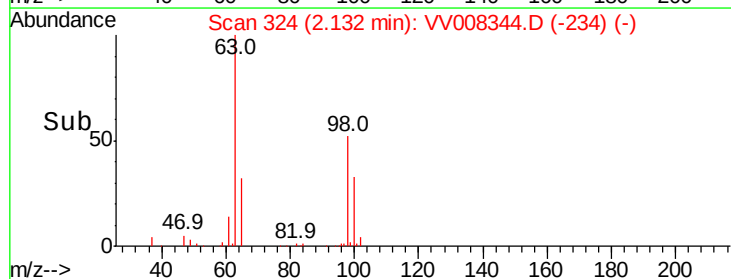
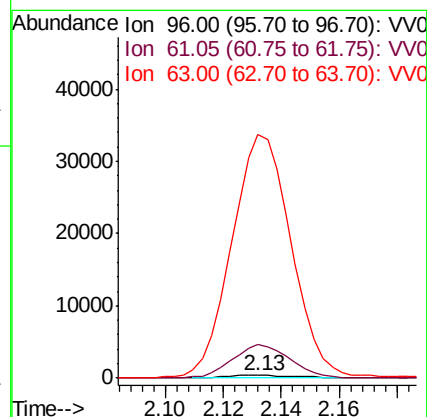
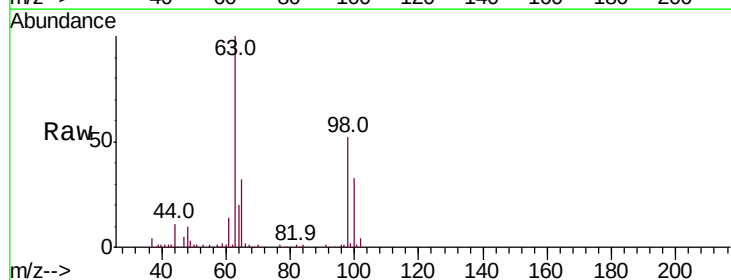
Tgt Ion: 96 Resp: 649

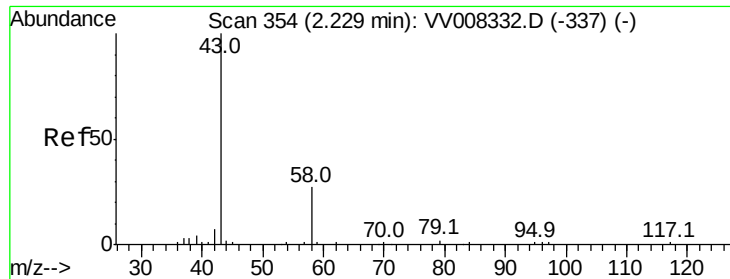
Ion Ratio Lower Upper

96 100

61 1174.1 129.9 241.3#

63 8642.1 103.0 191.4#





#13

Acetone

Concen: 3.518 ug/L

RT: 2.21 min Scan# 347

Delta R.T. -0.02 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

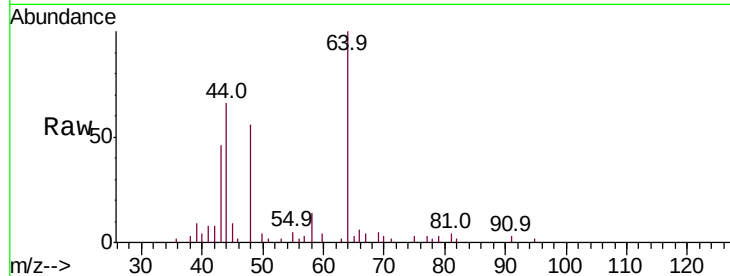
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 3824

Ion Ratio Lower Upper

43 100

58 37.9 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV008332.D (-337) (-)

Ion 58.05 (57.75 to 58.75): VV008332.D (-337) (-)

2.21

2.25

2.30

2.35

2.40

2.45

2.50

2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

3.15

3.20

3.25

3.30

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3.45

3.50

3.55

3.60

3.65

3.70

3.75

3.80

3.85

3.90

3.95

4.00

4.05

4.10

4.15

4.20

4.25

4.30

4.35

4.40

4.45

4.50

4.55

4.60

4.65

4.70

4.75

4.80

4.85

4.90

4.95

5.00

5.05

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5.15

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5.25

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5.45

5.50

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5.65

5.70

5.75

5.80

5.85

5.90

5.95

6.00

6.05

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6.25

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6.35

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6.55

6.60

6.65

6.70

6.75

6.80

6.85

6.90

6.95

7.00

7.05

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7.25

7.30

7.35

7.40

7.45

7.50

7.55

7.60

7.65

7.70

7.75

7.80

7.85

7.90

7.95

8.00

8.05

8.10

8.15

8.20

8.25

8.30

8.35

8.40

8.45

8.50

8.55

8.60

8.65

8.70

8.75

8.80

8.85

8.90

8.95

9.00

9.05

9.10

9.15

9.20

9.25

9.30

9.35

9.40

9.45

9.50

9.55

9.60

9.65

9.70

9.75

9.80

9.85

9.90

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

13.40

13.45

13.50

13.55

13.60

13.65

13.70

13.75

13.80

13.85

13.90

13.95

14.00

14.05

14.10

14.15

14.20

14.25

14.30

14.35

14.40

14.45

14.50

14.55

14.60

14.65

14.70

14.75

14.80

14.85

14.90

14.95

15.00

15.05

15.10

15.15

15.20

15.25

15.30

15.35

15.40

15.45

15.50

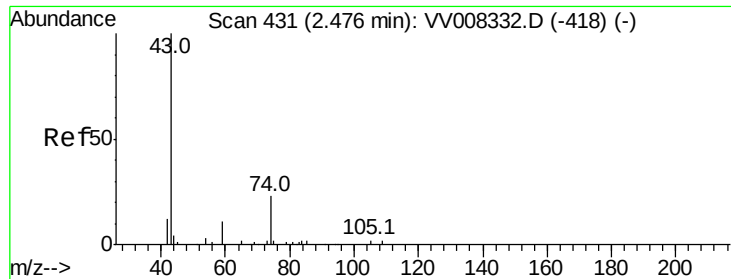
15.55

15.60

15.65

15.70

15.75



#15

Methyl Acetate

Concen: 0.706 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.02 min

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MSVOA_V

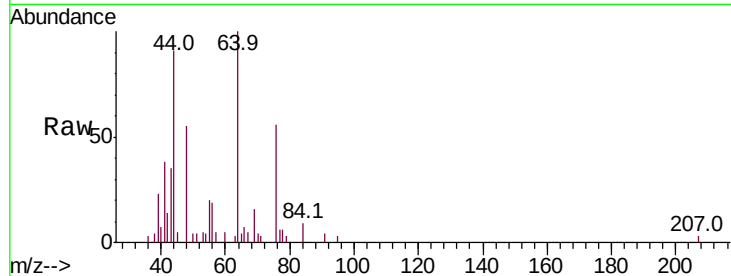
ClientSampled :

Tot Ion: 43 Resp: 1909

Ion Ratio Lower Upper

43 100

74 0.0 20.0 30.0#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.46

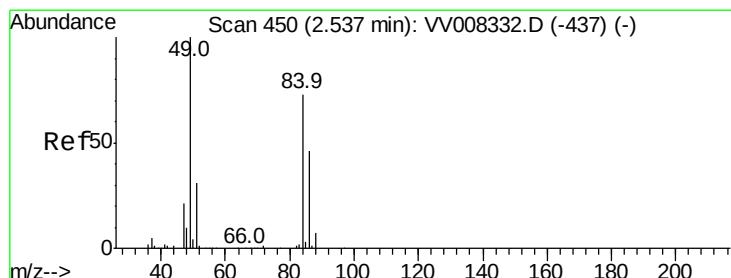
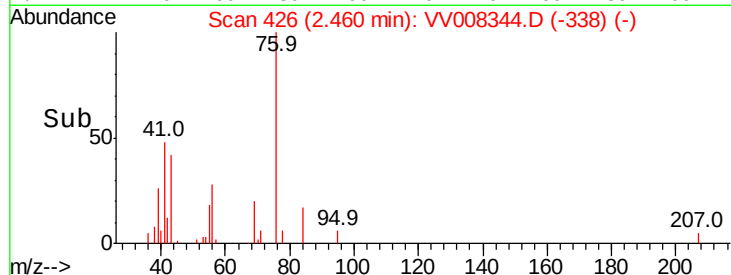
1500

1000

500

0

Time-->



#16

Methylene chloride

Concen: 0.119 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

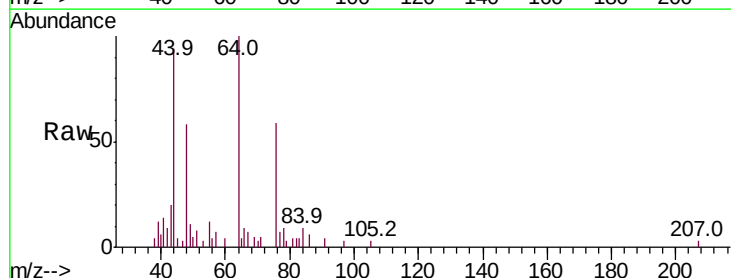
Tgt Ion: 84 Resp: 702

Ion Ratio Lower Upper

84 100

86 61.2 45.0 83.6

49 122.4 92.9 172.5



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

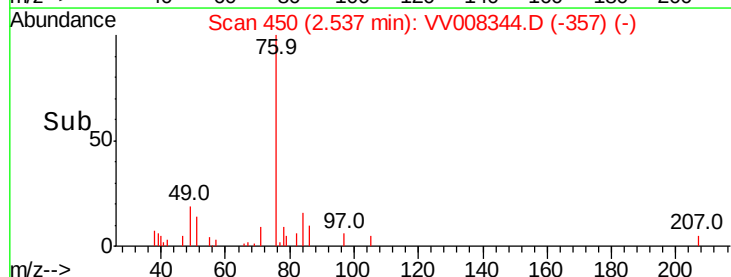
600

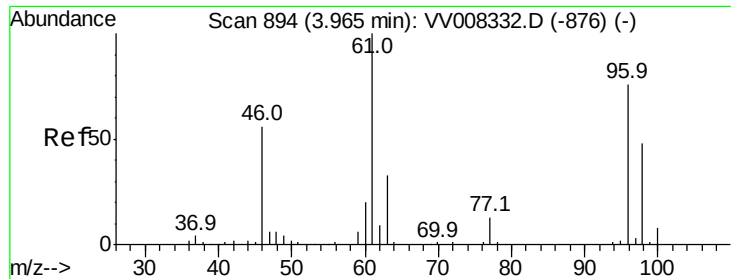
400

200

0

Time-->

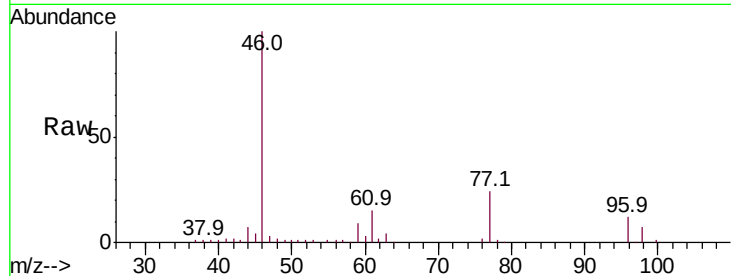




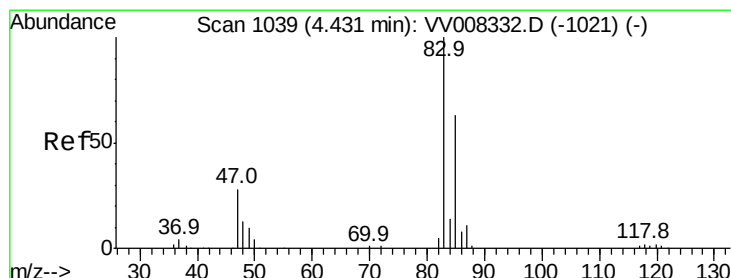
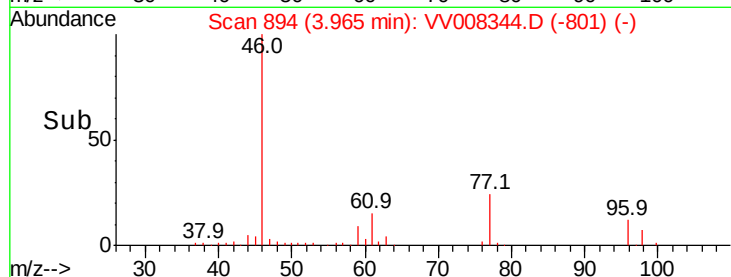
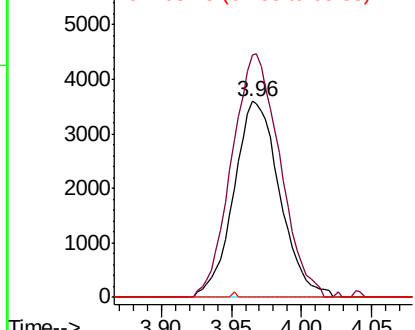
#22
 cis-1,2-Dichloroethene
 Concen: 0.928 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. -0.00 min
 Lab File: VV008344.D
 Acq: 18 Oct 2018 15:32

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 8207
 Ion Ratio Lower Upper
 96 100
 61 123.8 93.7 174.1
 68 0.0 0.6 1.2#

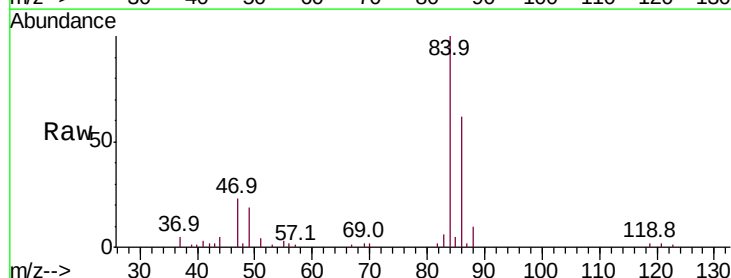


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

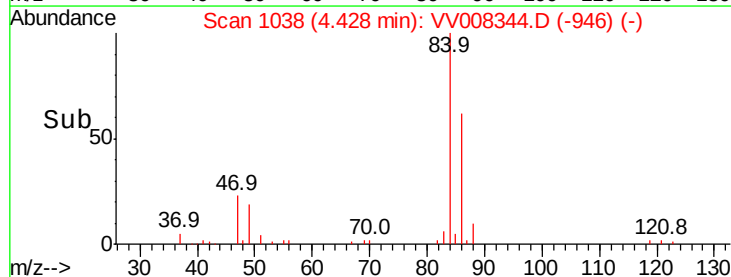
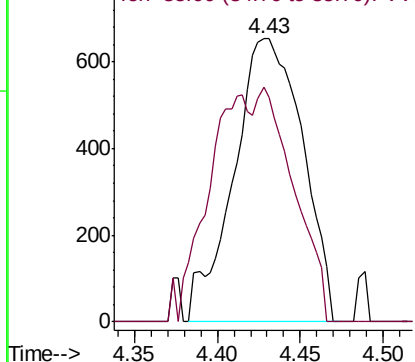


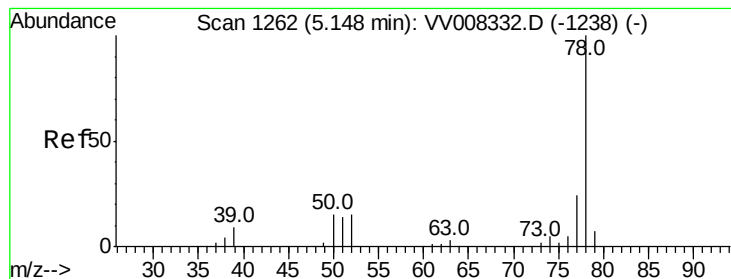
#25
 Chloroform
 Concen: 0.136 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. -0.00 min
 Lab File: VV008344.D
 Acq: 18 Oct 2018 15:32

Tgt Ion: 83 Resp: 1890
 Ion Ratio Lower Upper
 83 100
 85 82.8 43.4 80.6#



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0





#33

Benzene

Concen: 0.187 ug/L

RT: 5.15 min Scan# 1263

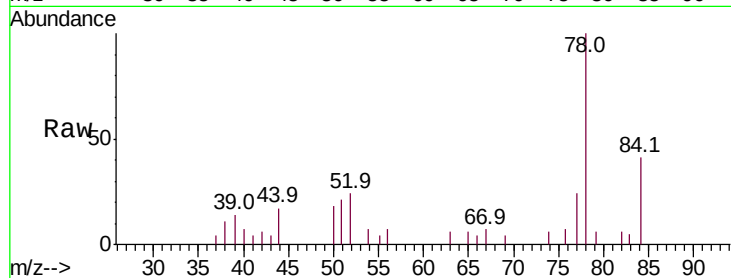
Delta R.T. 0.00 min

Lab File: VV008344.D

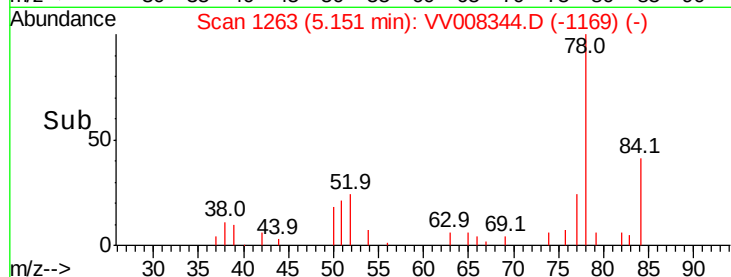
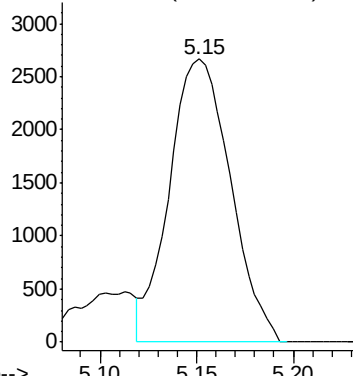
Acq: 18 Oct 2018 15:32

Instrument :
MSVOA_V
ClientSampled :

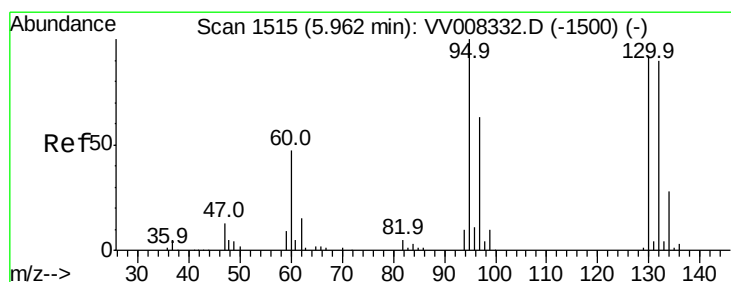
Tgt Ion: 78 Resp: 5861



Abundance Ion 78.10 (77.80 to 78.80): VV0



Time-->



#34

Trichloroethene

Concen: 1.540 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

Tgt Ion: 95 Resp: 13385

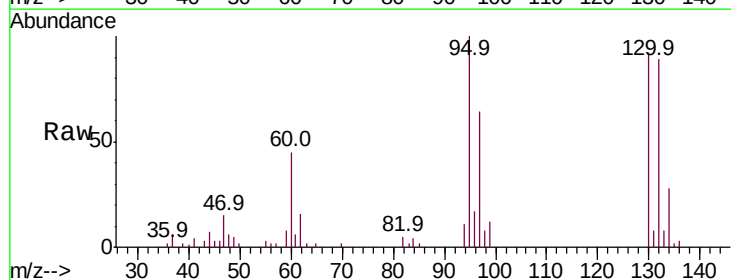
Ion	Ratio	Lower	Upper
95	100		
97	64.4	44.4	82.4
132	88.6	60.4	112.2
130	91.8	65.5	121.7

95 100

97 64.4 44.4 82.4

132 88.6 60.4 112.2

130 91.8 65.5 121.7

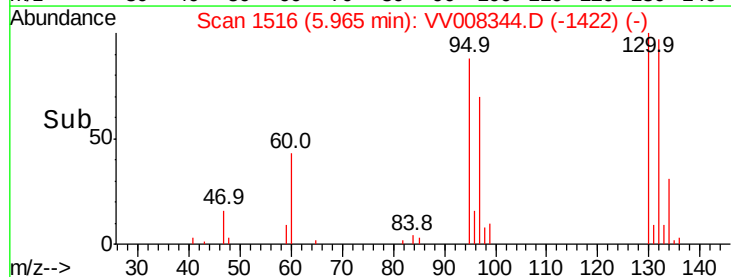
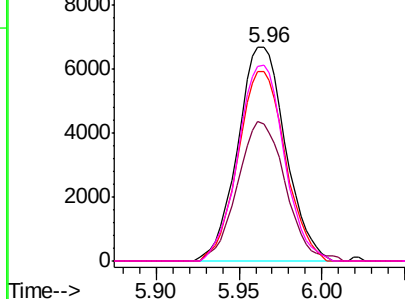


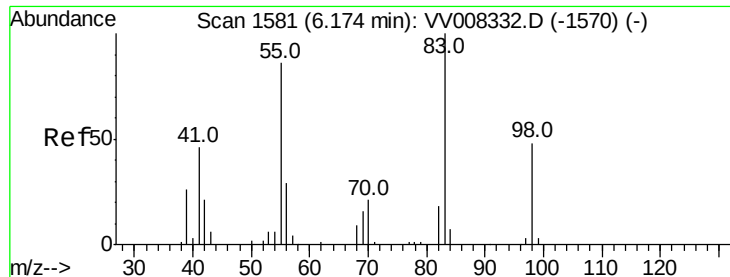
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0





#35

Methylvlcyclohexane

Concen: 0.682 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.05 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

Instrument :

MSVOA_V

ClientSampleId :

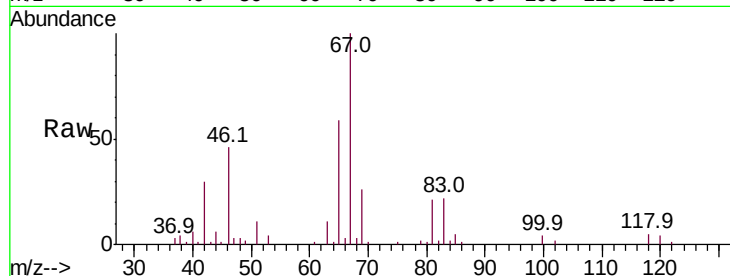
Tot Ion: 83 Resp: 9997

Ion Ratio Lower Upper

83 100

55 0.7 64.0 96.0#

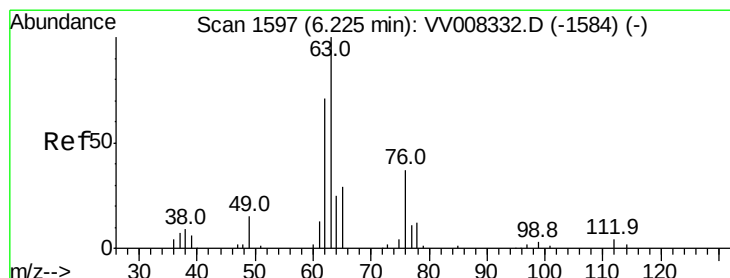
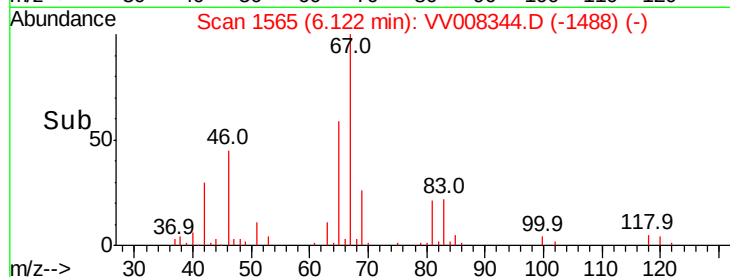
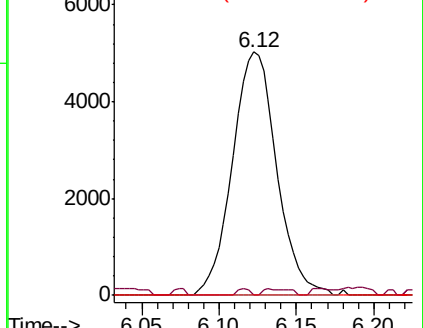
98 0.0 37.0 55.4#



Abundance Ion 83.15 (82.85 to 83.85): VV008332.D (-1570) (-)

Ion 55.10 (54.80 to 55.80): VV008332.D (-1570) (-)

Ion 98.15 (97.85 to 98.85): VV008332.D (-1570) (-)



#37

1,2-Dichloropropane

Concen: 0.562 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.10 min

Lab File: VV008344.D

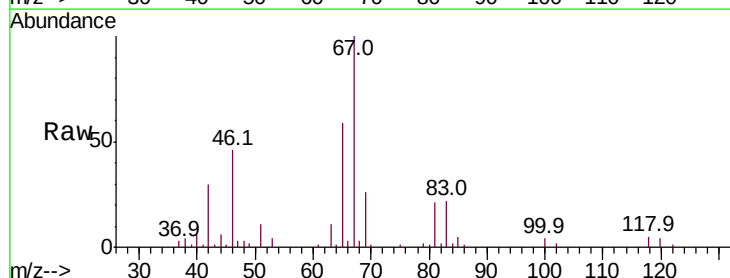
Acq: 18 Oct 2018 15:32

Tgt Ion: 63 Resp: 4753

Ion Ratio Lower Upper

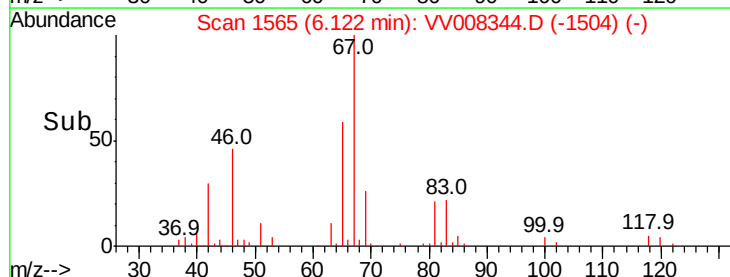
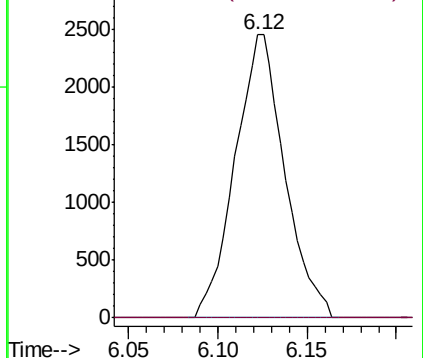
63 100

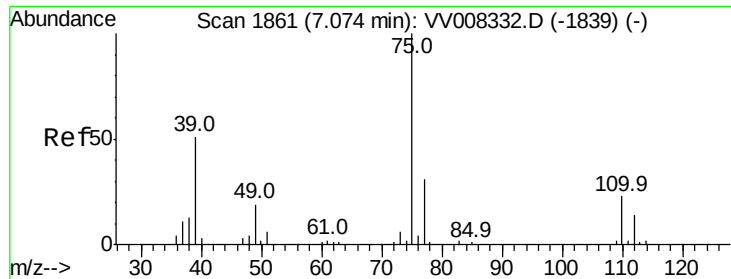
112 0.0 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VV008332.D (-1584) (-)

Ion 112.10 (111.80 to 112.80): VV008332.D (-1584) (-)





#39

cis-1,3-Dichloropropene

Concen: 0.073 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

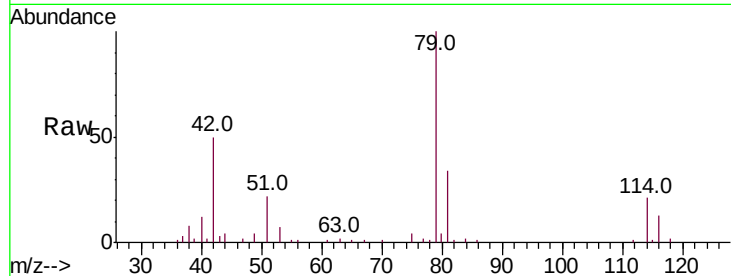
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 75 Resp: 879

Ion Ratio Lower Upper

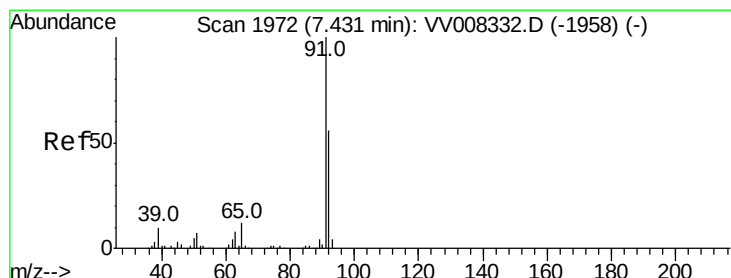
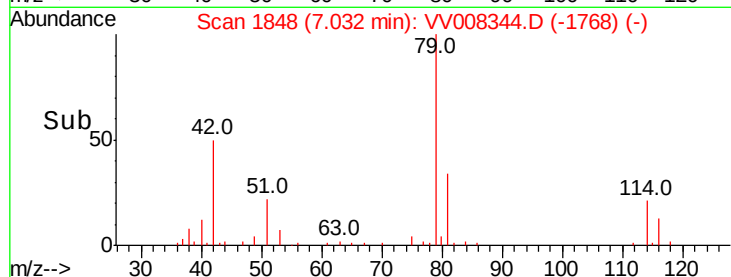
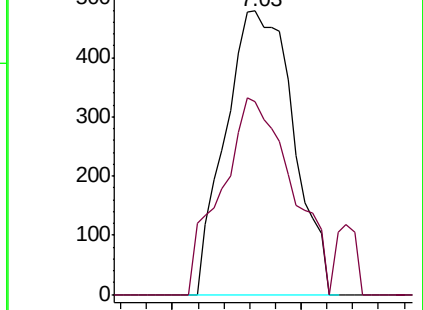
75 100

77 68.0 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV008332.D (-1839) (-)

Ion 77.05 (76.75 to 77.75): VV008332.D (-1839) (-)



#42

Toluene

Concen: 0.318 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008344.D

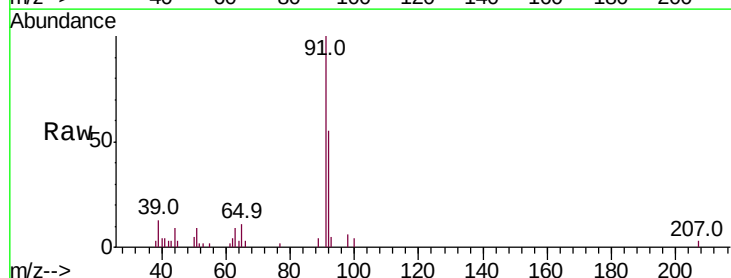
Acq: 18 Oct 2018 15:32

Tgt Ion: 91 Resp: 10408

Ion Ratio Lower Upper

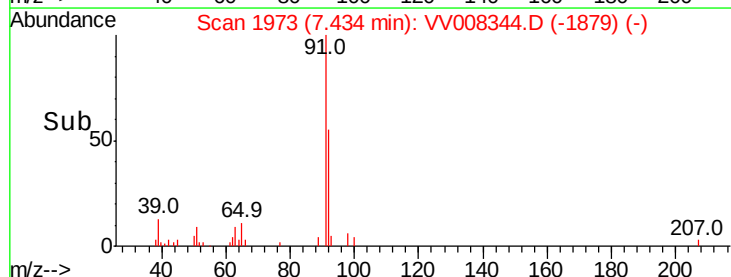
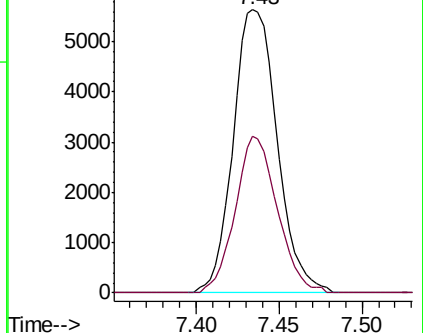
91 100

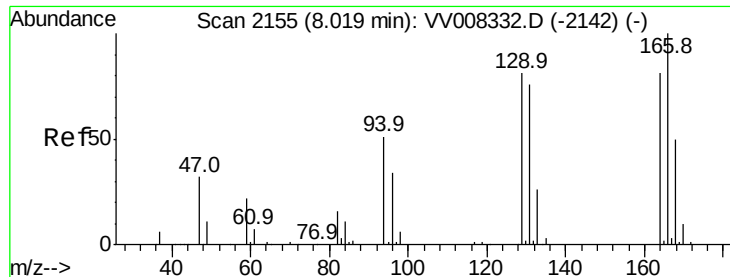
92 55.4 40.1 74.5



Abundance Ion 91.15 (90.85 to 91.85): VV008332.D (-1958) (-)

Ion 92.15 (91.85 to 92.85): VV008332.D (-1958) (-)





#47

Tetrachloroethene

Concen: 0.883 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 4808

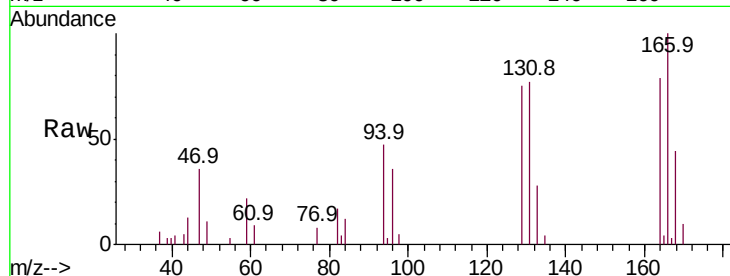
Ion Ratio Lower Upper

164 100

129 94.1 76.5 142.1

131 97.1 74.7 138.7

166 126.2 91.6 170.0

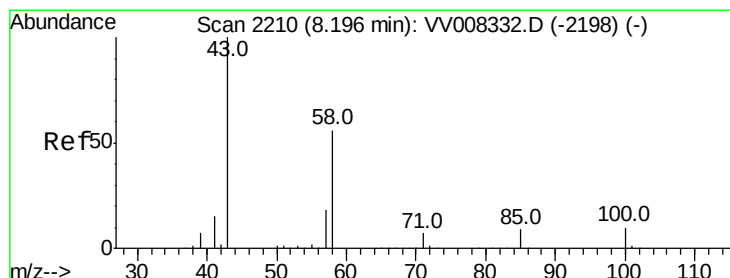
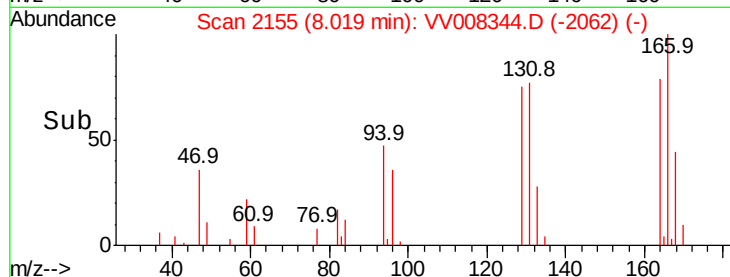
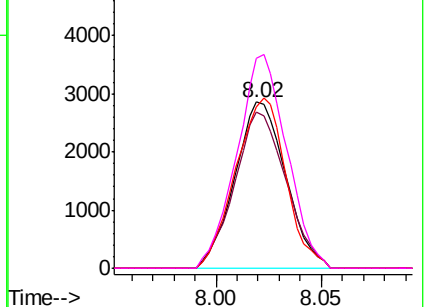


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 4.445 ug/L

RT: 8.19 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

Tgt Ion: 43 Resp: 16835

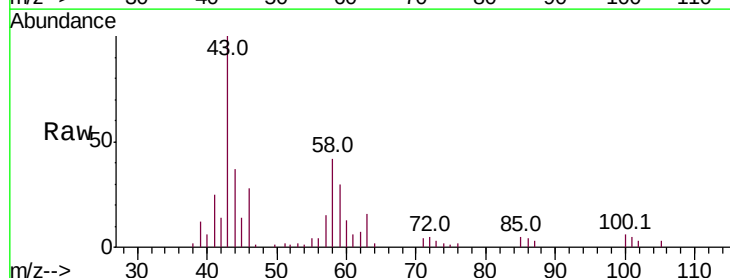
Ion Ratio Lower Upper

43 100

58 47.5 45.0 67.4

57 18.4 14.4 21.6

100 6.4 7.9 11.9#

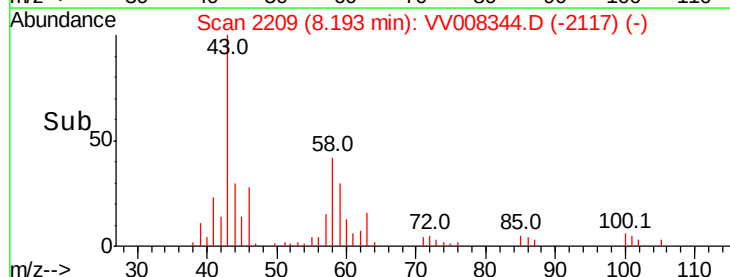
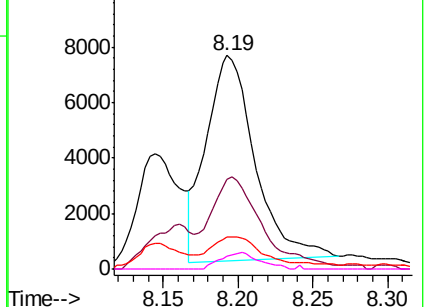


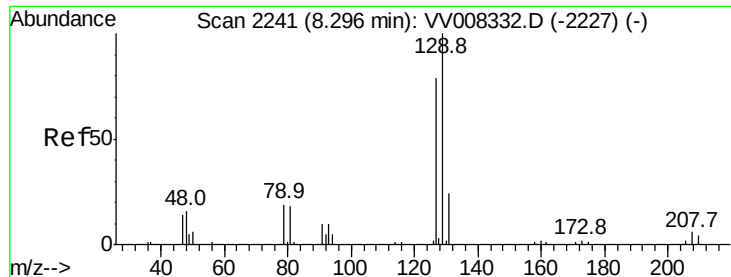
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 0.706 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.28 min

Lab File: VV008344.D

Acq: 18 Oct 2018 15:32

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:129 Resp: 4229

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#

