

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092718\
 Data File : VV007911.D
 Acq On : 27 Sep 2018 16:39
 Operator : SY/MD
 Sample : J5011-11DL 50X
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 28 00:45:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 28 00:42:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	83672	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	78822	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	40304	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	21644	4.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.40%
7) Chloroethane-d5	1.59	69	20586	5.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.20%
11) 1,1-Dichloroethene-d2	2.14	63	39838	3.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.60%
20) 2-Butanone-d5	3.96	46	67513	50.04	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.08%
24) Chloroform-d	4.41	84	50269	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.40%
26) 1,2-Dichloroethane-d4	5.09	65	28493	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
32) Benzene-d6	5.10	84	98696	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.00%
36) 1,2-Dichloropropane-d6	6.12	67	31857	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.36	98	94148	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
43) trans-1,3-Dichloropropene-	7.67	79	10979	4.78	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.60%
46) 2-Hexanone-d5	8.14	63	47186	46.54	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.08%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	22490	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	39080	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

					Ovalue
5) Vinyl chloride	1.33	62	7206	1.078	ug/L 96
8) Chloroethane	1.33	64	2533	0.628	ug/L # 79
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	1418	0.229	ug/L # 73
12) 1,1-Dichloroethene	2.15	96	4924	0.890	ug/L # 1
16) Methylene chloride	2.54	84	764	0.124	ug/L 81
19) 1,1-Dichloroethane	3.23	63	15983	1.536	ug/L 99
22) cis-1,2-Dichloroethene	3.97	96	62548	10.132	ug/L 99
25) Chloroform	4.44	83	1268	0.113	ug/L 92
29) 1,1,1-Trichloroethane	4.67	97	69852	7.370	ug/L 100
31) Carbon tetrachloride	4.67	117	9034	1.081	ug/L 99
34) Trichloroethene	5.96	95	273137	42.263	ug/L 97
35) Methylcyclohexane	6.12	83	7695	0.794	ug/L # 18
37) 1,2-Dichloropropane	6.13	63	3744	0.649	ug/L # 87
39) cis-1,3-Dichloropropene	7.04	75	866	0.112	ug/L # 74
44) trans-1,3-Dichloropropene	7.67	75	530	0.083	ug/L 85
45) 1,1,2-Trichloroethane	7.89	97	633	0.152	ug/L 87
47) Tetrachloroethene	8.02	164	10480	1.750	ug/L 94

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 28 00:42:21 2018
Response via : Initial Calibration

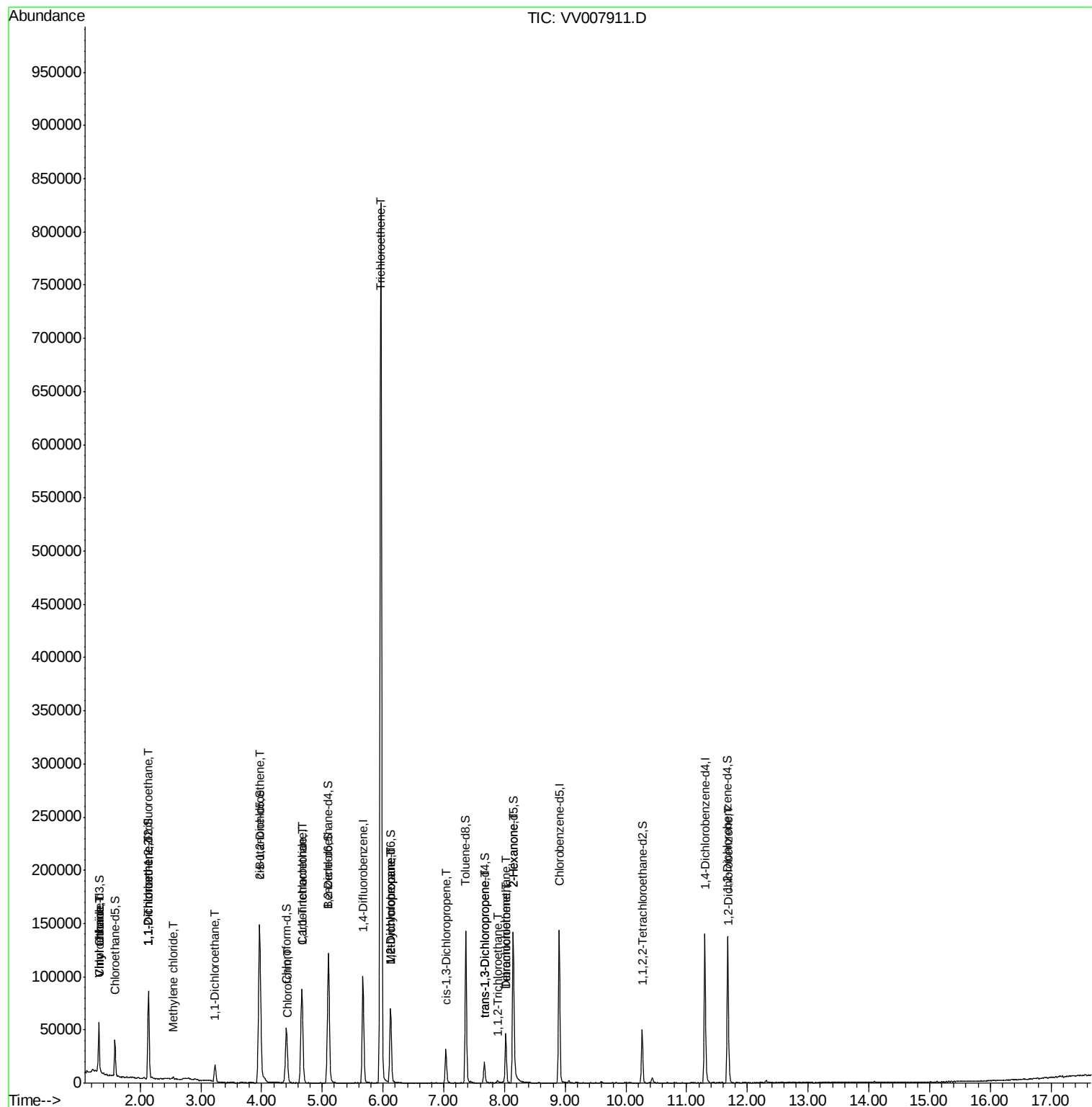
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.14	43	7366	2.926	ug/L #	77
49) Dibromochloromethane	8.02	129	9333	1.965	ug/L #	12
65) 1,2-Dichlorobenzene	11.69	146	2534	0.202	ug/L	91

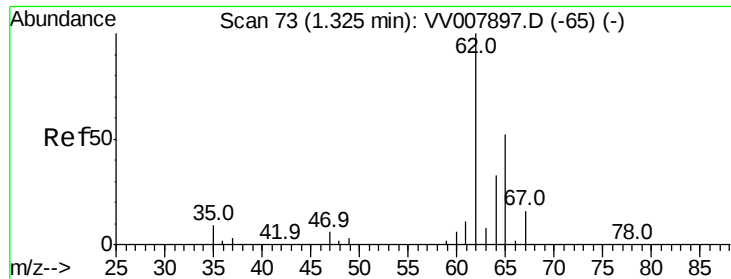
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.078 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Instrument :

MSVOA_V

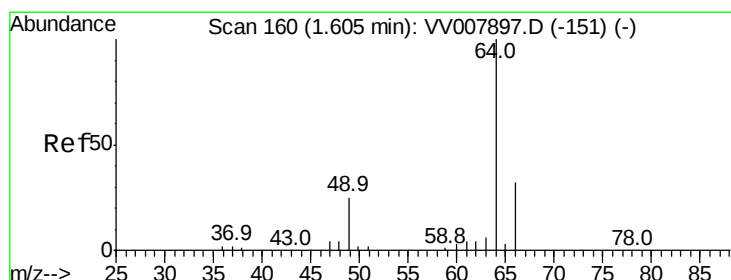
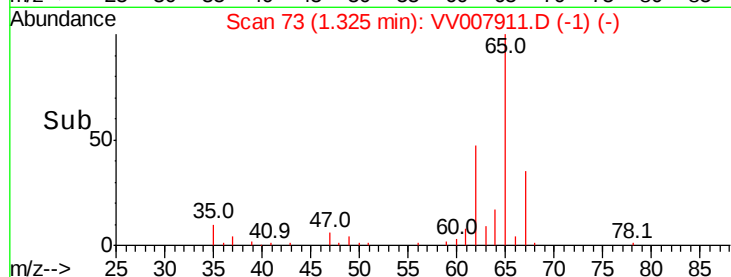
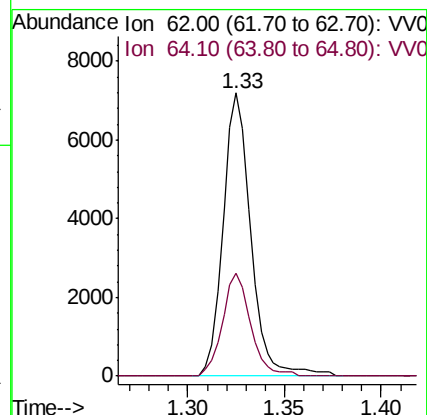
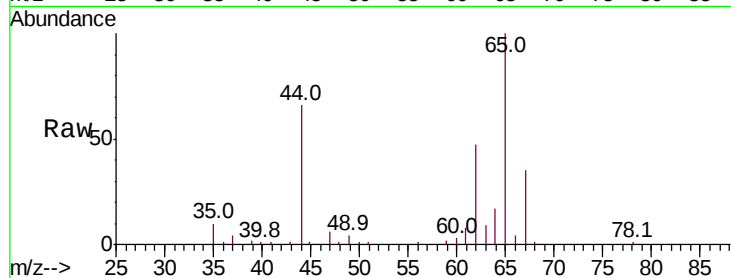
ClientSampleId :

Tot Ion: 62 Resp: 7206

Ion Ratio Lower Upper

62 100

64 36.5 24.0 44.6



#8

Chloroethane

Concen: 0.628 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.28 min

Lab File: VV007911.D

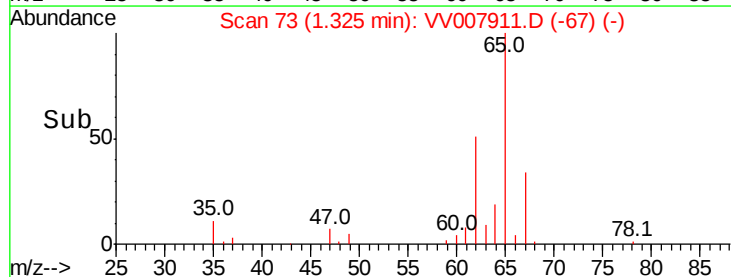
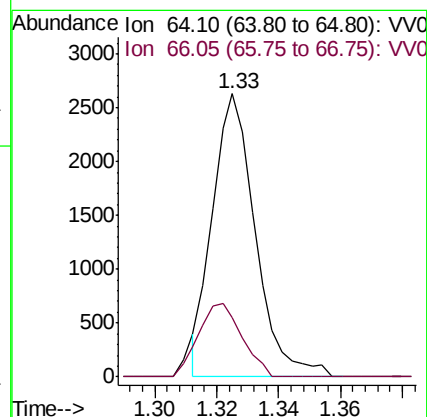
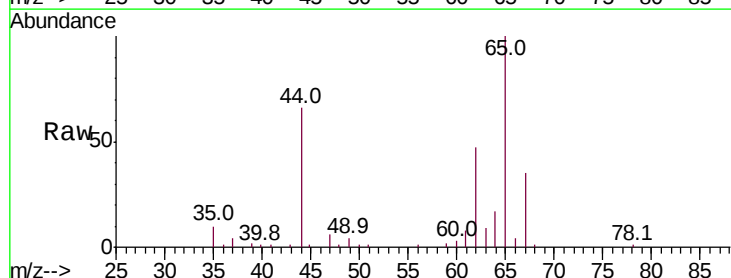
Acq: 27 Sep 2018 16:39

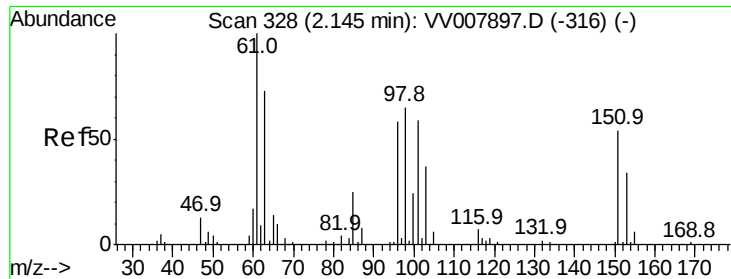
Tgt Ion: 64 Resp: 2533

Ion Ratio Lower Upper

64 100

66 21.1 23.1 42.9#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.229 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Instrument :

MSVOA_V

ClientSampled :

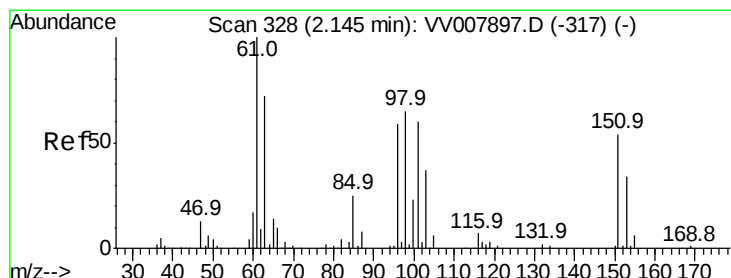
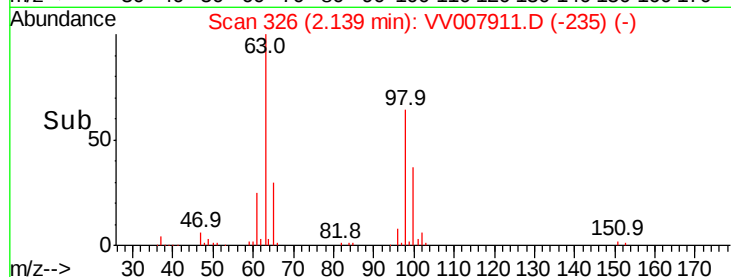
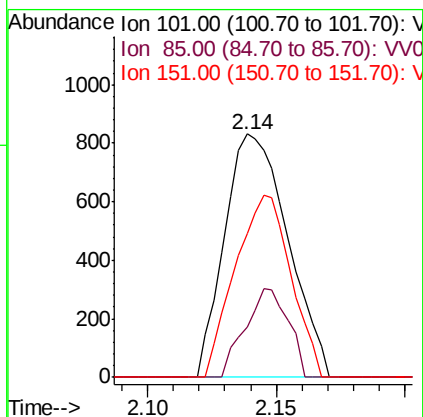
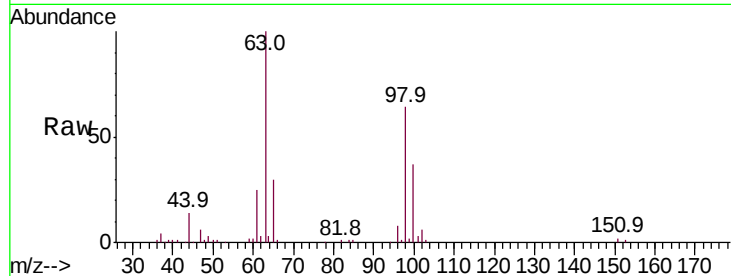
Tot Ion:101 Resp: 1418

Ion Ratio Lower Upper

101 100

85 24.9 34.7 52.1#

151 65.9 72.2 108.2#



#12

1,1-Dichloroethene

Concen: 0.890 ug/L

RT: 2.15 min Scan# 329

Delta R.T. 0.00 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

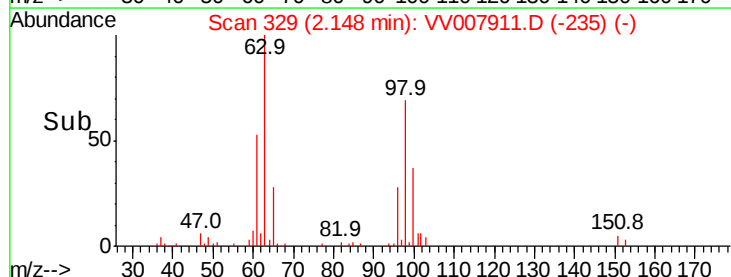
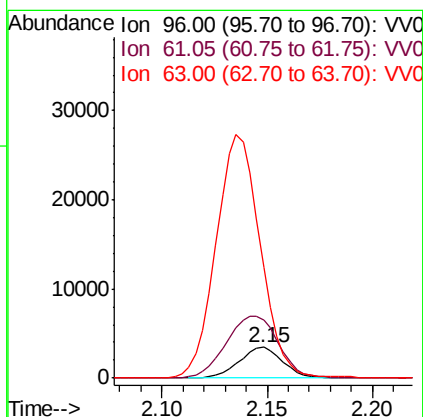
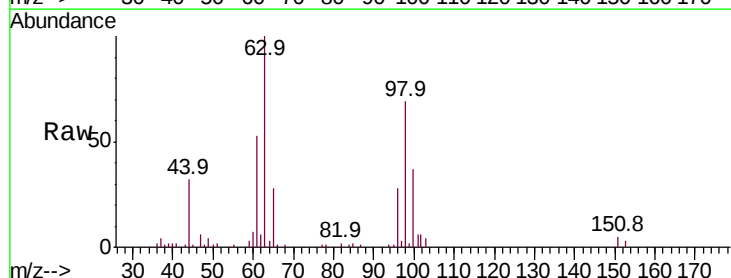
Tgt Ion: 96 Resp: 4924

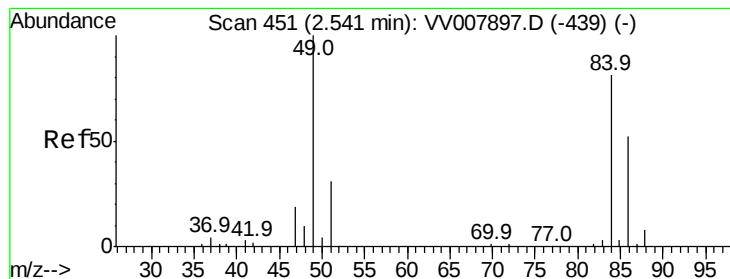
Ion Ratio Lower Upper

96 100

61 191.4 114.1 211.9

63 361.7 81.5 151.3#





#16

Methvlene chloride

Concen: 0.124 ug/L

RT: 2.54 min Scan# 452

Delta R.T. 0.00 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Instrument :

MSVOA_V

ClientSampleId :

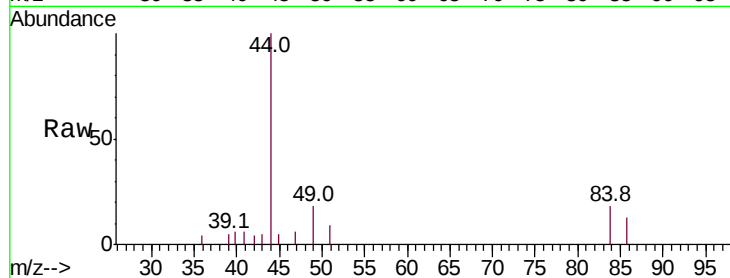
Tot Ion: 84 Resp: 764

Ion Ratio Lower Upper

84 100

86 70.8 47.3 87.8

49 98.1 90.0 167.2



Abundance Ion 84.05 (83.75 to 84.75): VV007897.D (-439) (-)

Ion 86.00 (85.70 to 86.70): VV007897.D (-439) (-)

Ion 49.10 (48.80 to 49.80): VV007897.D (-439) (-)

2.54

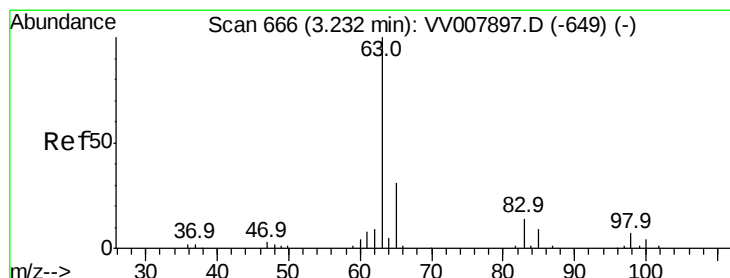
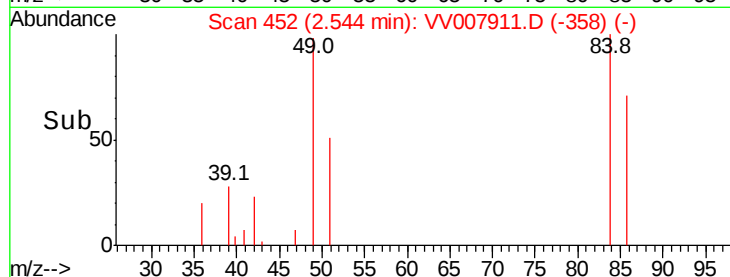
400

200

0

2.50 2.52 2.54 2.56 2.58

Time-->



#19

1,1-Dichloroethane

Concen: 1.536 ug/L

RT: 3.23 min Scan# 667

Delta R.T. 0.00 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

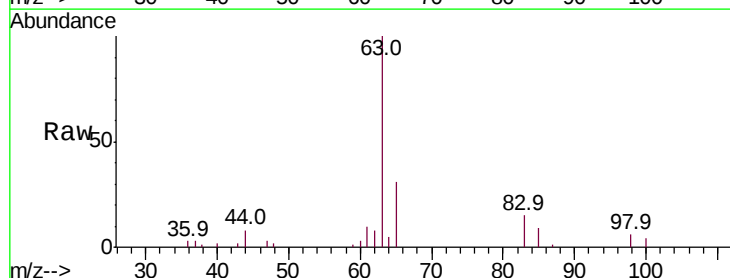
Tgt Ion: 63 Resp: 15983

Ion Ratio Lower Upper

63 100

65 31.4 22.3 41.5

83 14.6 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VV007897.D (-649) (-)

Ion 65.10 (64.80 to 65.80): VV007897.D (-649) (-)

Ion 83.05 (82.75 to 83.75): VV007897.D (-649) (-)

3.23

10000

8000

6000

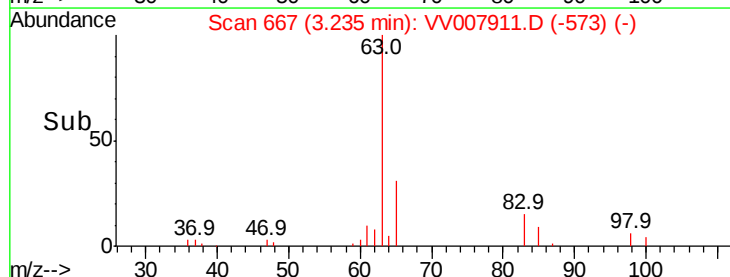
4000

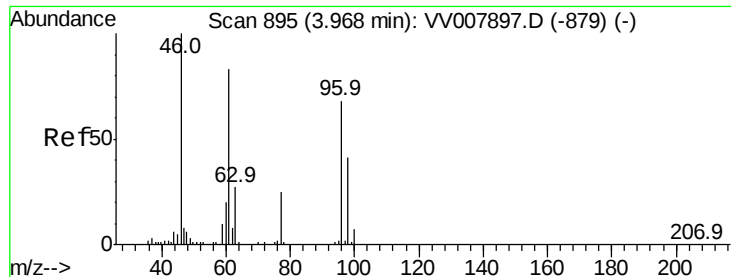
2000

0

3.15 3.20 3.25 3.30

Time-->



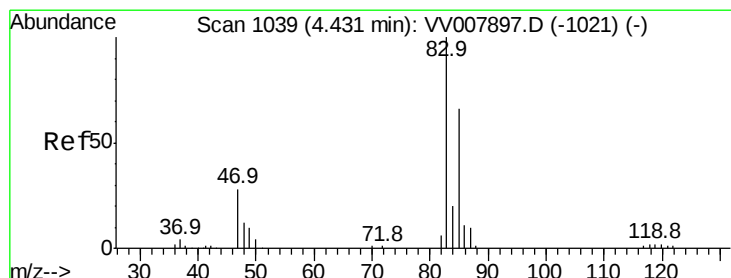
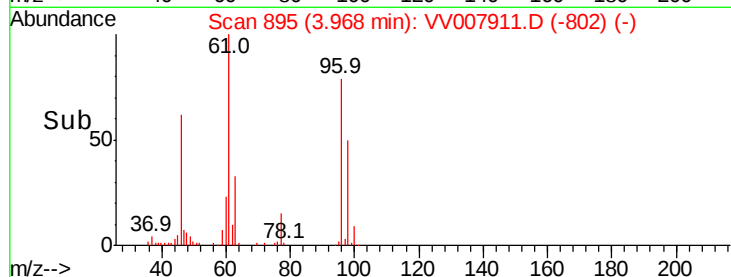
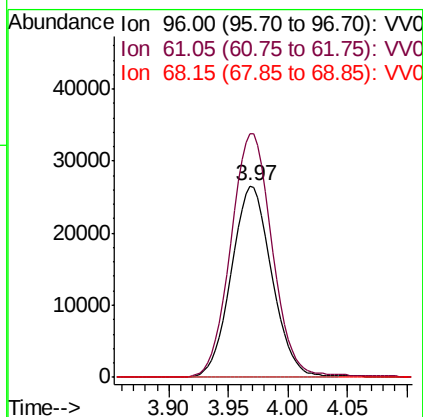
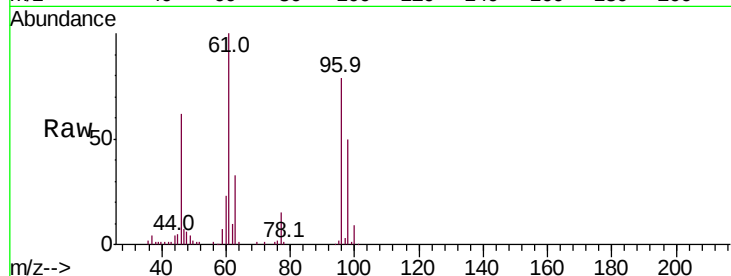


#22

cis-1,2-Dichloroethene
Concen: 10.132 ug/L
RT: 3.97 min Scan# 895
Delta R.T. -0.00 min
Lab File: VV007911.D
Acq: 27 Sep 2018 16:39

Instrument :
MSVOA_V
ClientSampleId :

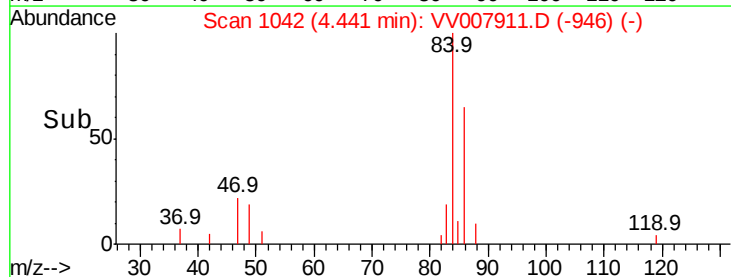
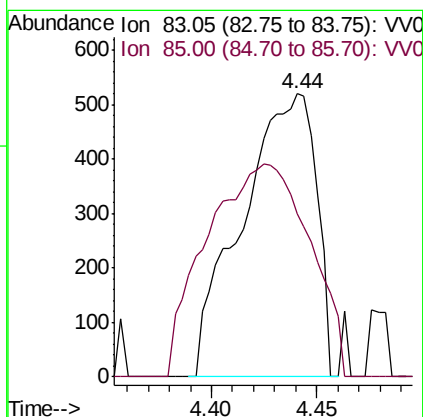
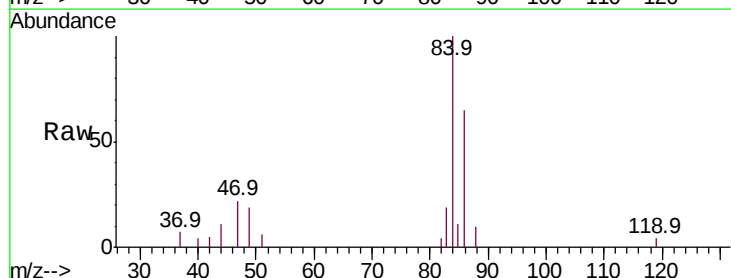
Tot Ion: 96 Resp: 62548
Ion Ratio Lower Upper
96 100
61 127.1 89.5 166.1
68 0.0 0.0 0.0

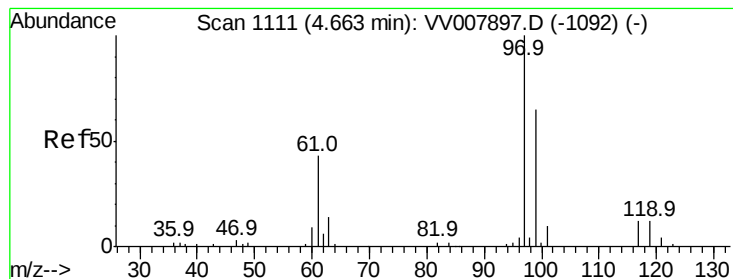


#25

Chloroform
Concen: 0.113 ug/L
RT: 4.44 min Scan# 1042
Delta R.T. 0.01 min
Lab File: VV007911.D
Acq: 27 Sep 2018 16:39

Tgt Ion: 83 Resp: 1268
Ion Ratio Lower Upper
83 100
85 57.7 44.8 83.2





#29

1,1,1-Trichloroethane

Concen: 7.370 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Instrument :

MSVOA_V

ClientSampleId :

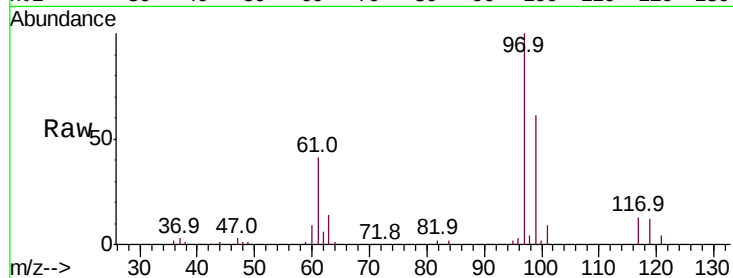
Tot Ion: 97 Resp: 69852

Ion Ratio Lower Upper

97 100

99 64.4 51.2 76.8

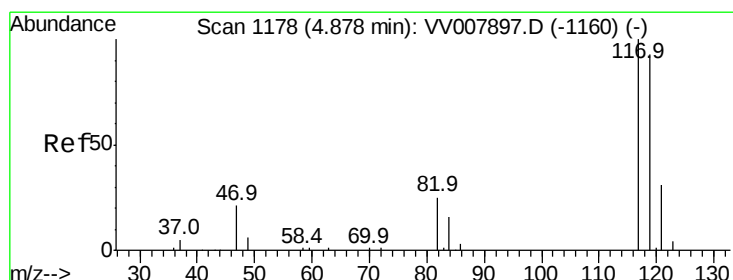
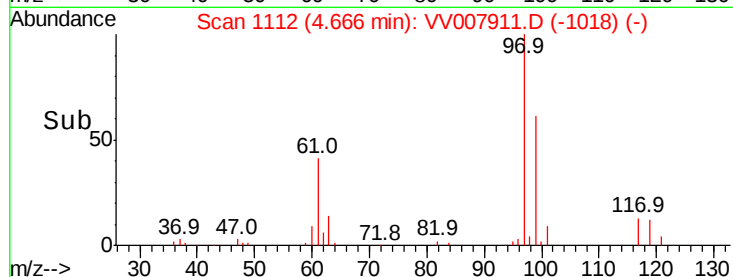
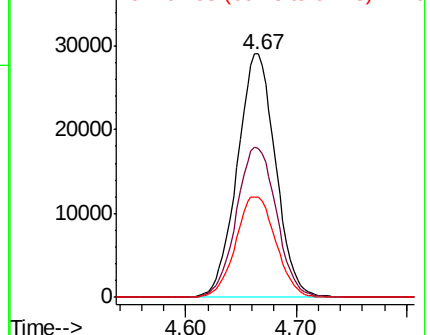
61 43.2 34.6 52.0



Abundance Ion 96.95 (96.65 to 97.65): VV007911.D (-1092) (-)

Ion 99.05 (98.75 to 99.75): VV007911.D (-1092) (-)

Ion 61.05 (60.75 to 61.75): VV007911.D (-1092) (-)



#31

Carbon tetrachloride

Concen: 1.081 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.21 min

Lab File: VV007911.D

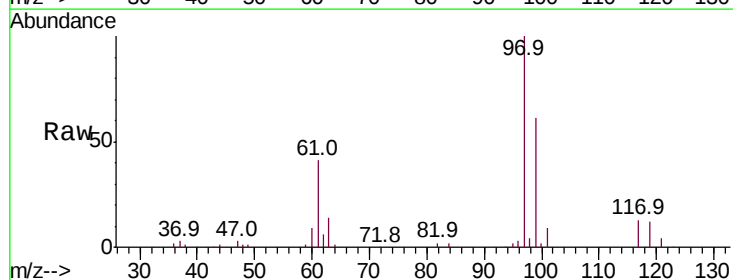
Acq: 27 Sep 2018 16:39

Tgt Ion: 117 Resp: 9034

Ion Ratio Lower Upper

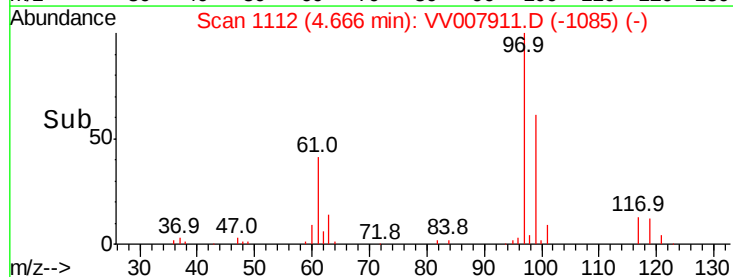
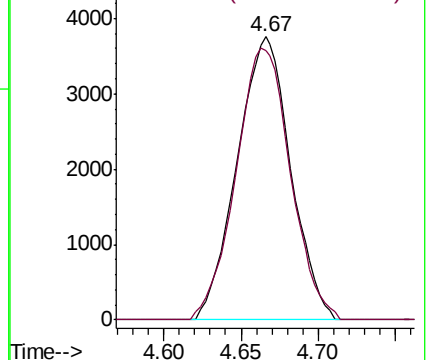
117 100

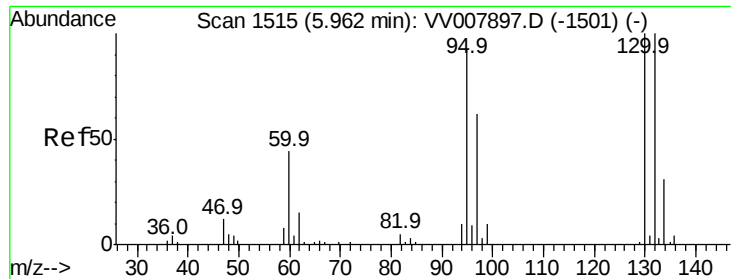
119 97.9 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): VV007911.D (-1085) (-)

Ion 118.90 (118.60 to 119.60): VV007911.D (-1085) (-)

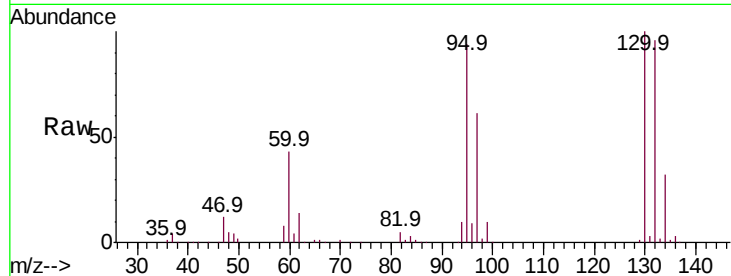




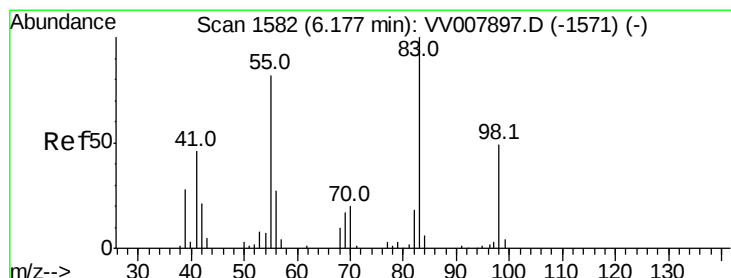
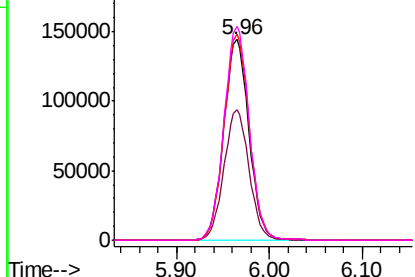
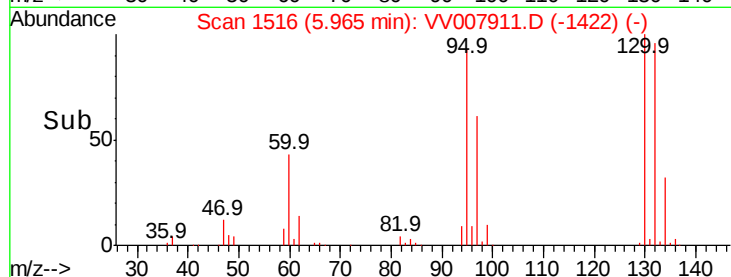
#34
 Trichloroethene
 Concen: 42.263 ug/L
 RT: 5.96 min Scan# 1516
 Delta R.T. 0.00 min
 Lab File: VV007911.D
 Acq: 27 Sep 2018 16:39

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
95	100		
97	65.0	43.6	81.0
132	102.7	69.9	129.9
130	106.6	71.7	133.3

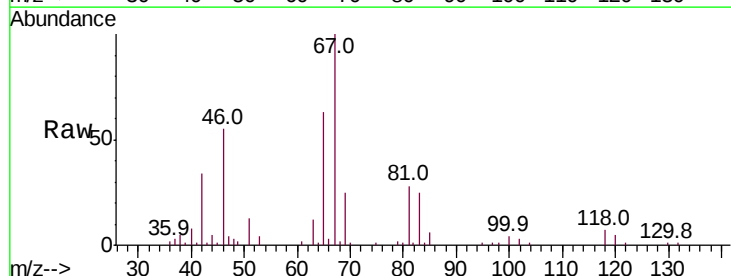


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

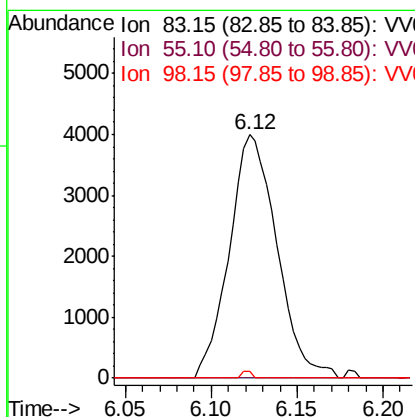
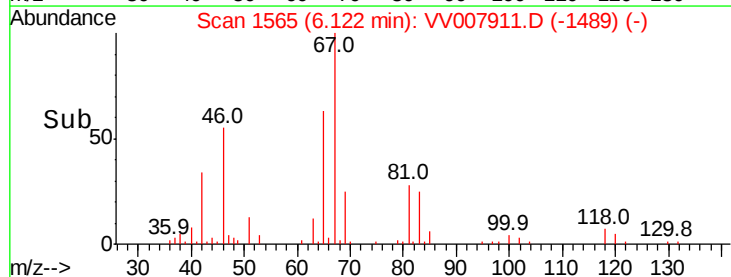


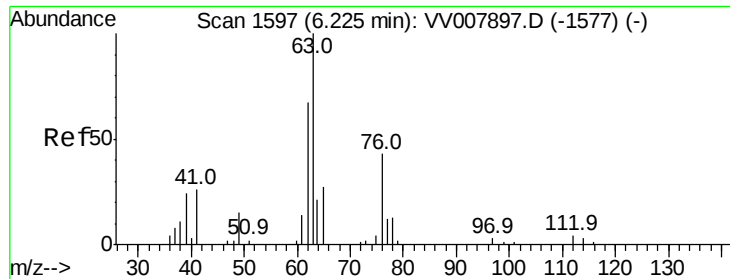
#35
 Methylcyclohexane
 Concen: 0.794 ug/L
 RT: 6.12 min Scan# 1565
 Delta R.T. -0.05 min
 Lab File: VV007911.D
 Acq: 27 Sep 2018 16:39

Tgt Ion	Ratio	Lower	Upper
83	100		
55	0.0	62.2	93.2#
98	0.0	38.0	57.0#



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.649 ug/L

RT: 6.13 min Scan# 1566

Delta R.T. -0.10 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Instrument :

MSVOA_V

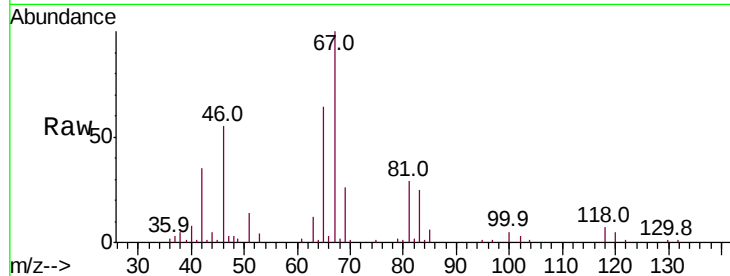
ClientSampleId :

Tot Ion: 63 Resp: 3744

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V

6.13

2000

1500

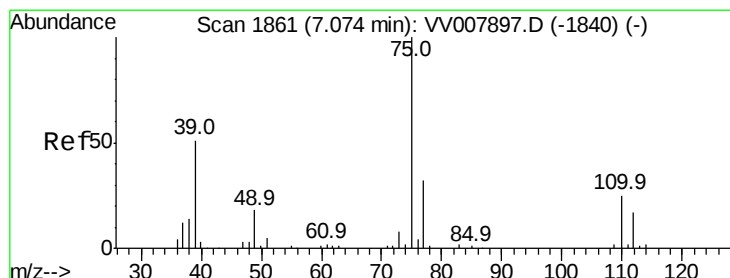
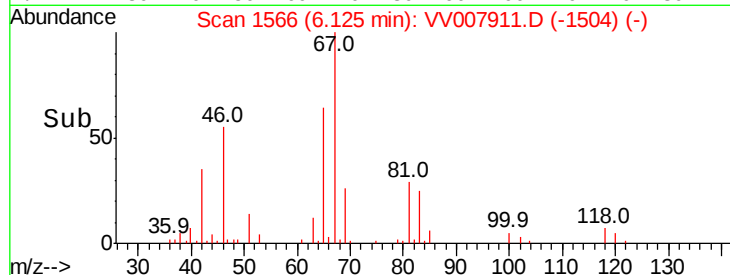
1000

500

0

6.10 6.15

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV007911.D

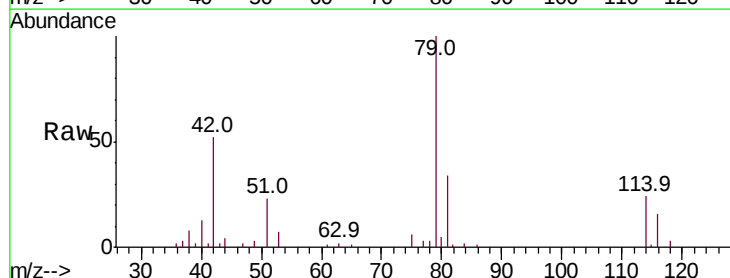
Acq: 27 Sep 2018 16:39

Tgt Ion: 75 Resp: 866

Ion Ratio Lower Upper

75 100

77 47.6 22.9 42.5#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.04

600

500

400

300

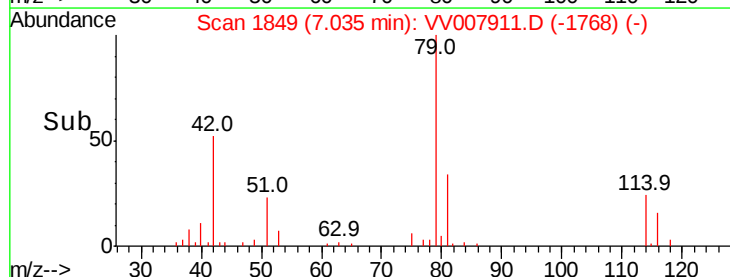
200

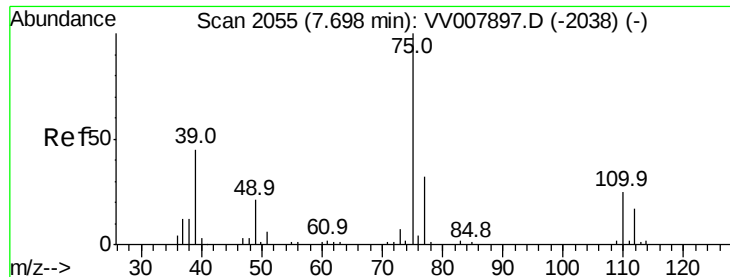
100

0

7.00 7.05

Time-->





#44

trans-1,3-Dichloropropene

Concen: 0.083 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Instrument :

MSVOA_V

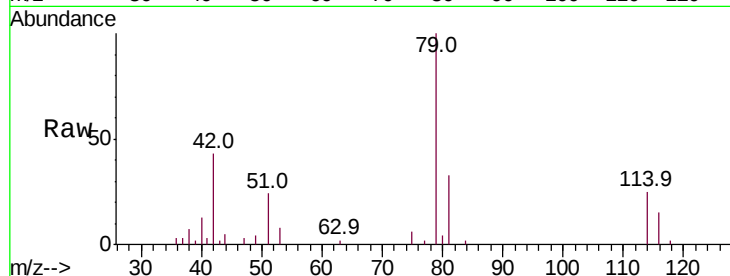
ClientSampleId :

Tot Ion: 75 Resp: 530

Ion Ratio Lower Upper

75 100

77 40.4 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV007897.D (-2038) (-)

Ion 77.05 (76.75 to 77.75): VV007897.D (-2038) (-)

7.67

300

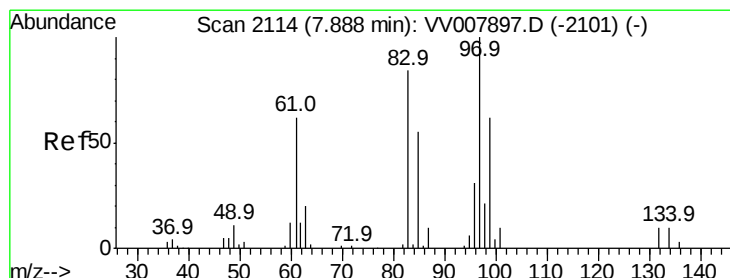
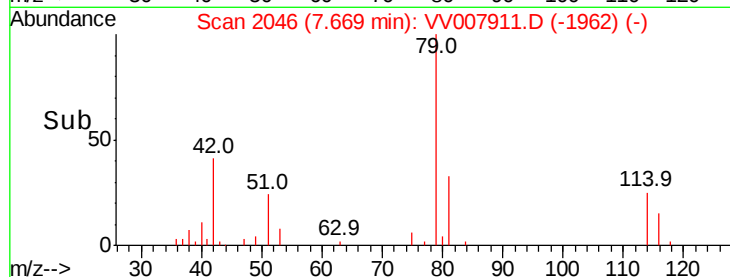
200

100

0

7.64 7.66 7.68 7.70

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.152 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Tgt Ion: 97 Resp: 633

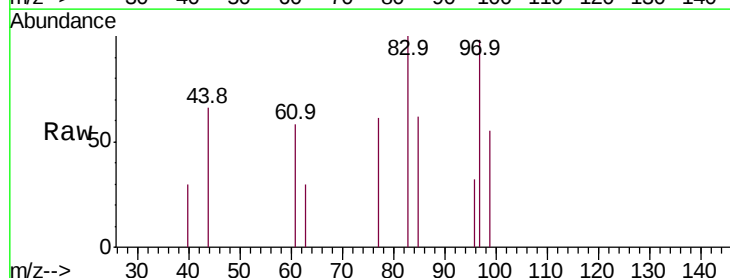
Ion Ratio Lower Upper

97 100

99 55.7 43.5 80.9

83 101.6 59.7 110.9

85 63.0 39.5 73.3



Abundance Ion 96.95 (96.65 to 97.65): VV007897.D (-2101) (-)

Ion 99.05 (98.75 to 99.75): VV007897.D (-2101) (-)

Ion 82.95 (82.65 to 83.65): VV007897.D (-2101) (-)

Ion 85.00 (84.70 to 85.70): VV007897.D (-2101) (-)

7.89

400

300

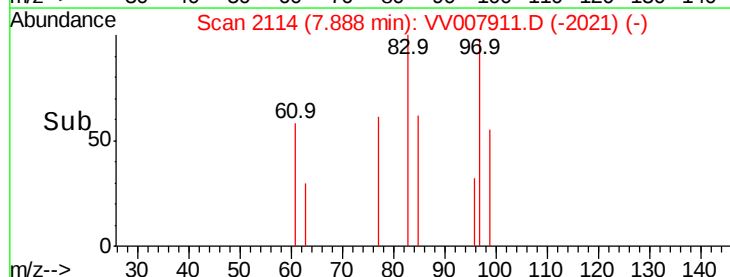
200

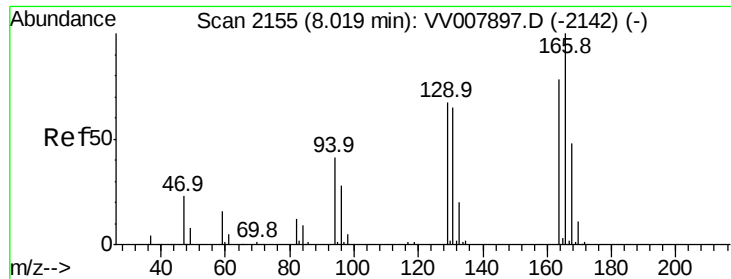
100

0

7.84 7.86 7.88 7.90 7.92

Time-->

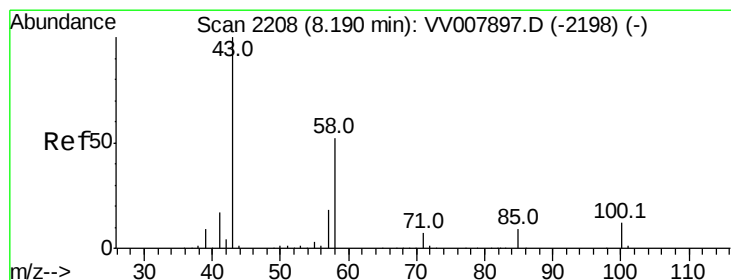
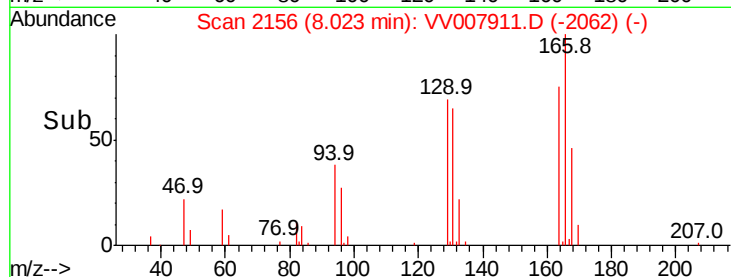
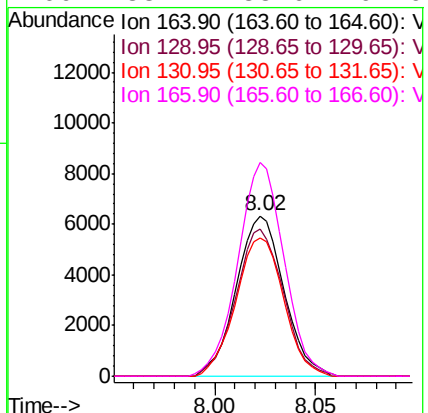
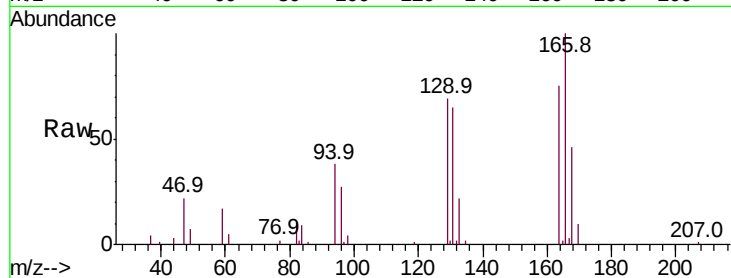




#47
Tetrachloroethene
Concen: 1.750 ug/L
RT: 8.02 min Scan# 2156
Delta R.T. 0.00 min
Lab File: VV007911.D
Acq: 27 Sep 2018 16:39

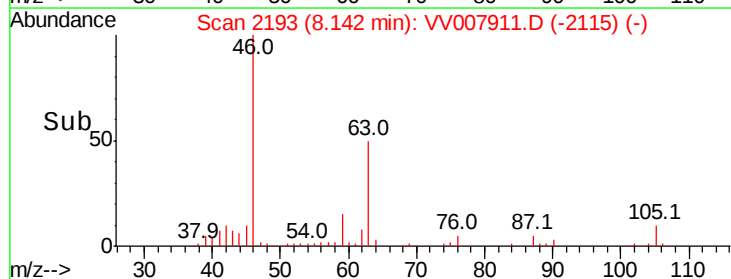
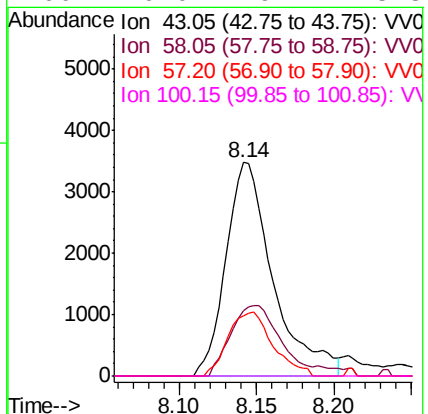
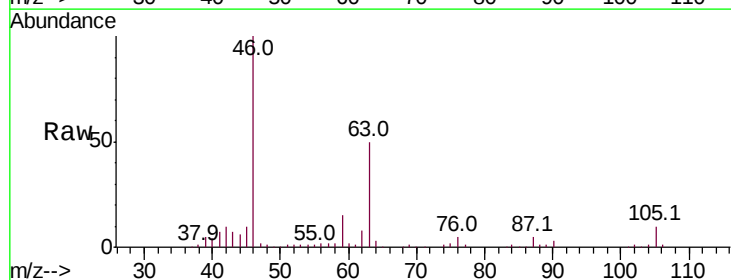
Instrument :
MSVOA_V
ClientSampleId :

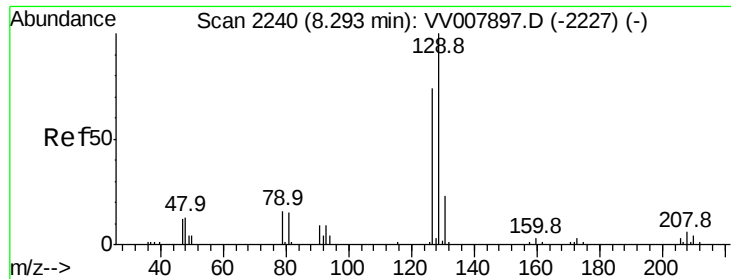
Tot Ion:164 Resp: 10480
Ion Ratio Lower Upper
164 100
129 91.5 59.2 110.0
131 86.5 57.1 106.1
166 133.2 88.6 164.6



#48
2-Hexanone
Concen: 2.926 ug/L
RT: 8.14 min Scan# 2193
Delta R.T. -0.05 min
Lab File: VV007911.D
Acq: 27 Sep 2018 16:39

Tgt Ion: 43 Resp: 7366
Ion Ratio Lower Upper
43 100
58 37.3 41.9 62.9#
57 28.5 14.3 21.5#
100 0.0 9.2 13.8#





#49

Dibromochloromethane

Concen: 1.965 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. -0.27 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

Instrument :

MSVOA_V

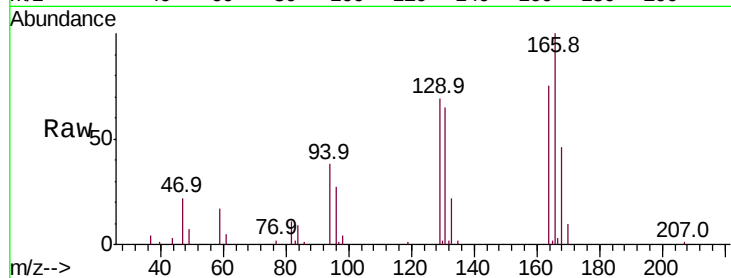
ClientSampleId :

Tot Ion:129 Resp: 9333

Ion Ratio Lower Upper

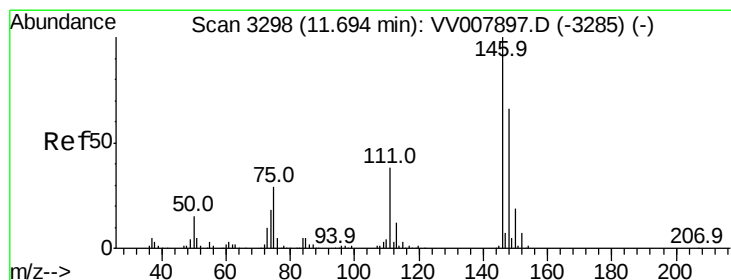
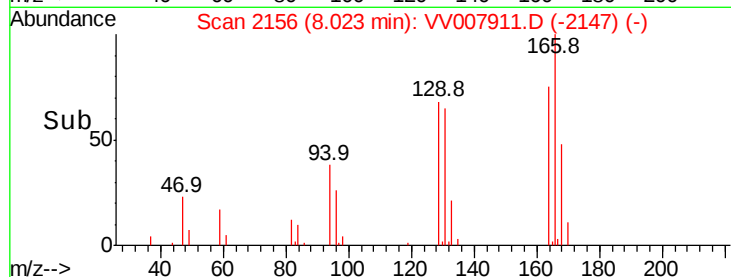
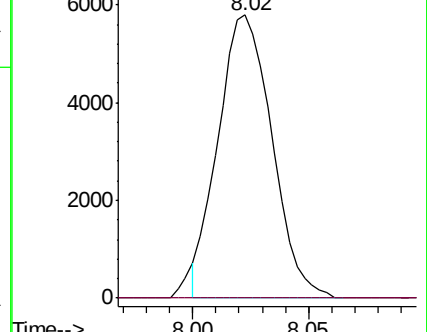
129 100

127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#65

1,2-Dichlorobenzene

Concen: 0.202 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VV007911.D

Acq: 27 Sep 2018 16:39

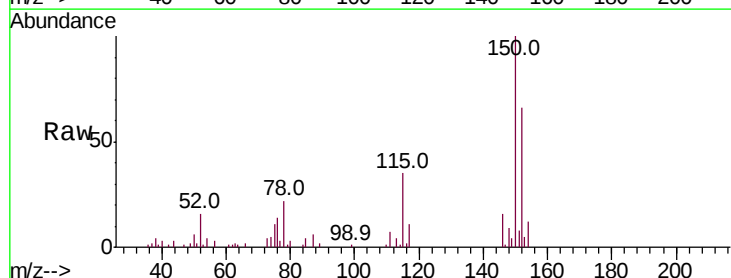
Tgt Ion:146 Resp: 2534

Ion Ratio Lower Upper

146 100

111 44.3 31.2 46.8

148 55.9 50.3 75.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

