

Data File : VV008082.D
Acq On : 05 Oct 2018 00:41
Operator : SY/MD
Sample : J5246-16
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0J84

Quant Time: Oct 05 05:59:42 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 05 05:56:33 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	82098	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	79115	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	39552	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	18184	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.58	69	16728	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.13	63	30253	3.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.80%
20) 2-Butanone-d5	3.98	46	79894	60.35	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.70%
24) Chloroform-d	4.41	84	50939	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
26) 1,2-Dichloroethane-d4	5.09	65	26597	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.10	84	92815	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.13	67	31570	5.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.40%
41) Toluene-d8	7.36	98	83640	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.00%
43) trans-1,3-Dichloropropene-	7.67	79	10709	4.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.80%
46) 2-Hexanone-d5	8.14	63	51961	51.06	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.12%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	24138	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	36595	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

						Qvalue
5) Vinyl chloride	1.32	62	61676	9.404	ug/L	99
8) Chloroethane	1.60	64	1906	0.482	ug/L #	58
12) 1,1-Dichloroethene	2.14	96	3372	0.621	ug/L #	1
13) Acetone	2.24	43	1427	1.480	ug/L	64
17) Methyl tert-butyl Ether	2.82	73	102550	7.649	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	46470	7.768	ug/L	98
21) 2-Butanone	4.06	43	1920	1.249	ug/L #	50
22) cis-1,2-Dichloroethene	3.97	96	574270	94.812	ug/L	97
25) Chloroform	4.43	83	2265	0.205	ug/L	100
27) 1,2-Dichloroethane	5.18	62	1207	0.170	ug/L #	77
30) Cyclohexane	4.72	56	4581	0.512	ug/L	92
31) Carbon tetrachloride	4.88	117	2450	0.292	ug/L	96
33) Benzene	5.15	78	9792	0.432	ug/L	100
34) Trichloroethene	5.97	95	8600992	1325.915	ug/L	93
35) Methylcyclohexane	6.12	83	8590	0.883	ug/L #	26
37) 1,2-Dichloropropane	6.13	63	3440	0.594	ug/L #	87
39) cis-1,3-Dichloropropene	7.04	75	836	0.108	ug/L #	43

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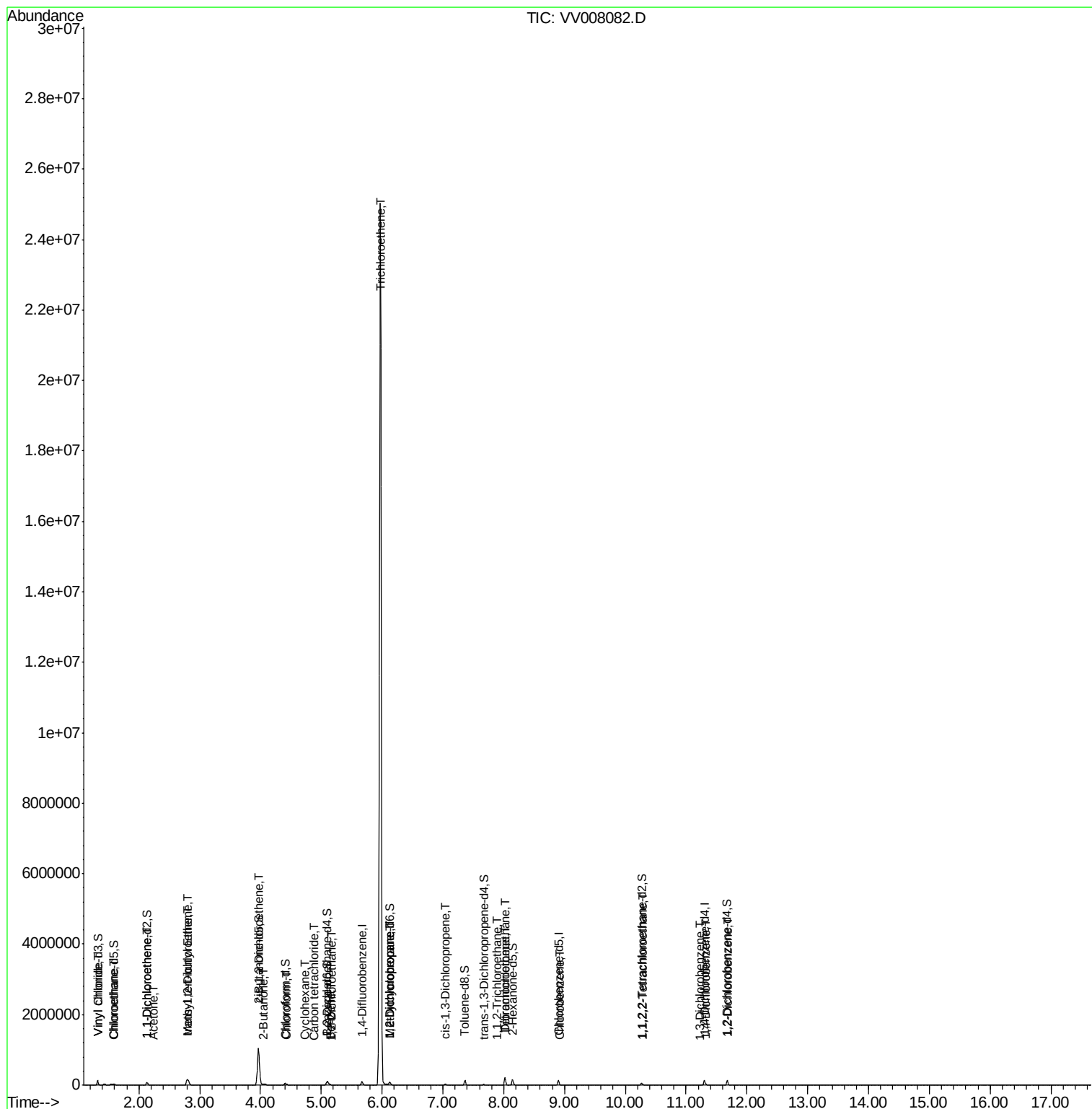
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	7.89	97	4073	0.975	ug/L	94
47) Tetrachloroethene	8.02	164	51333	8.540	ug/L	99
49) Dibromochloromethane	8.02	129	42797	8.976	ug/L #	12
51) Chlorobenzene	8.93	112	2248	0.132	ug/L	90
58) 1,1,2,2-Tetrachloroethane	10.29	83	5087	1.037	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	1043	0.080	ug/L	87
63) 1,4-Dichlorobenzene	11.32	146	3124	0.230	ug/L	94
65) 1,2-Dichlorobenzene	11.69	146	4460	0.362	ug/L	94

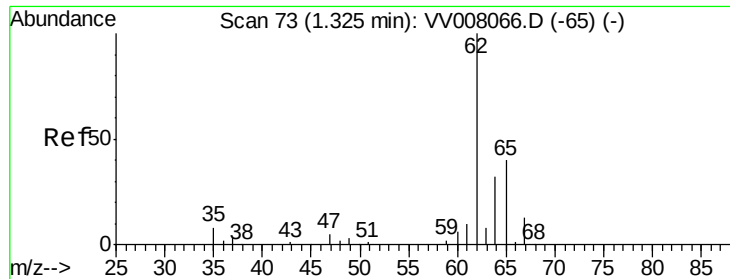
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 9.404 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

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Acq: 05 Oct 2018 00:41

Instrument :

MSVOA_V

ClientSampleId :

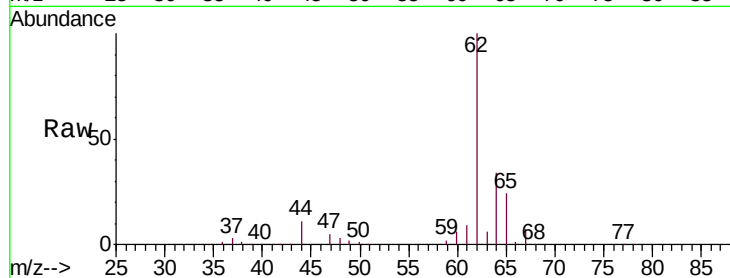
C0J84

Tgt Ion: 62 Resp: 61676

Ion Ratio Lower Upper

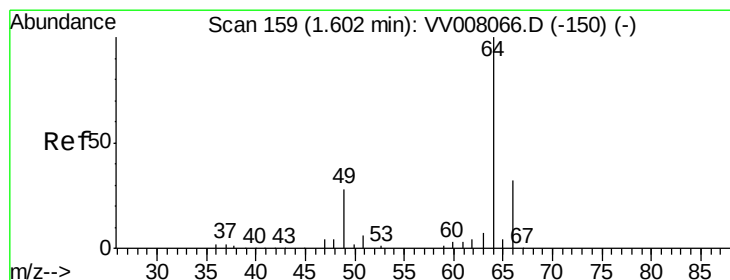
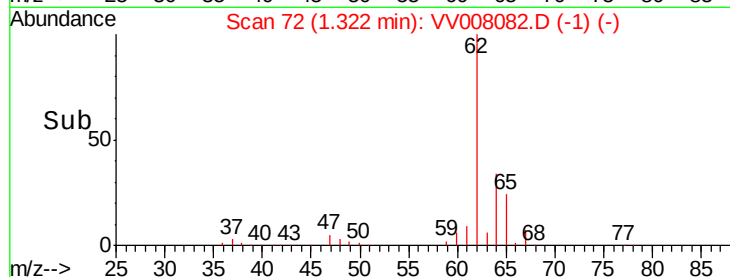
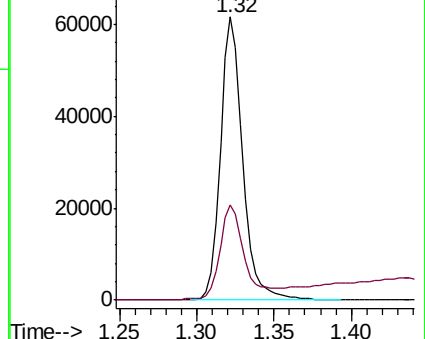
62 100

64 33.6 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VV008066.D (-65) (-)

Ion 64.10 (63.80 to 64.80): VV008082.D (-66) (-)



#8

Chloroethane

Concen: 0.482 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV008082.D

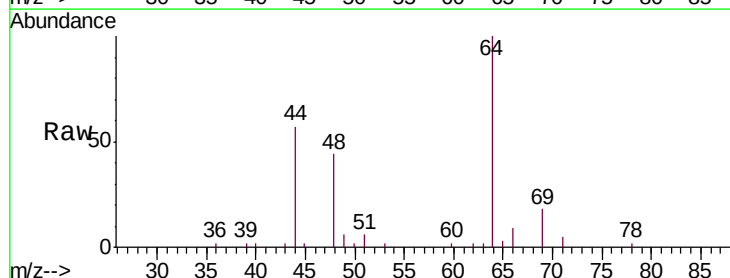
Acq: 05 Oct 2018 00:41

Tgt Ion: 64 Resp: 1906

Ion Ratio Lower Upper

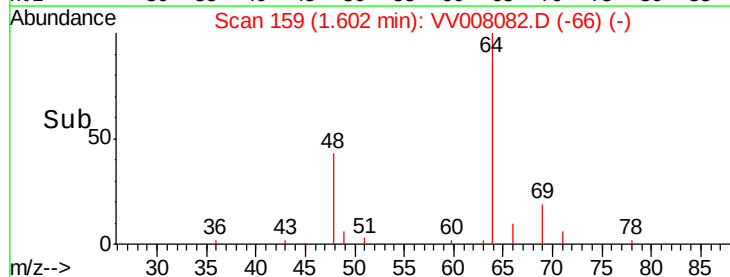
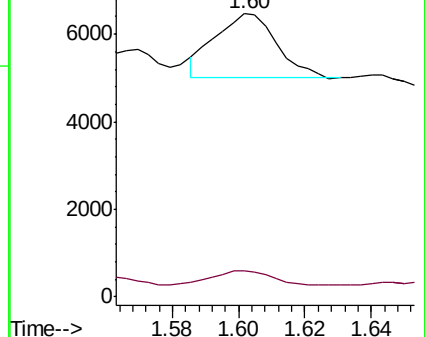
64 100

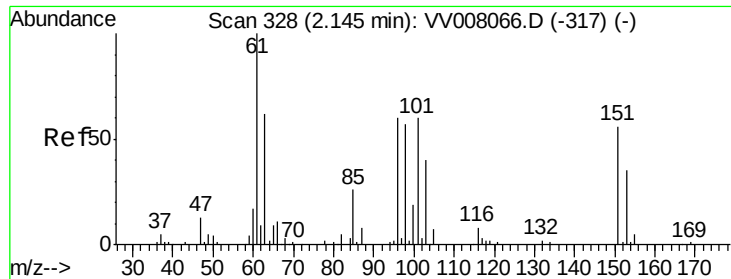
66 9.3 23.1 42.9#



Abundance Ion 64.10 (63.80 to 64.80): VV008066.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV008082.D (-66) (-)

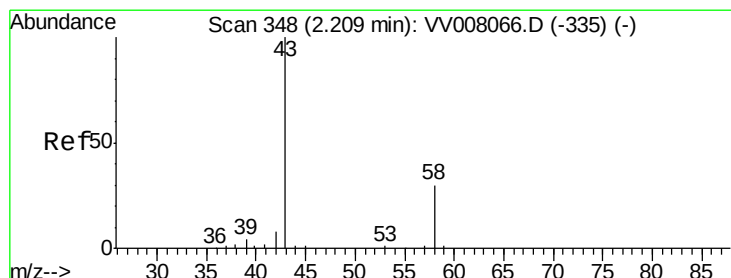
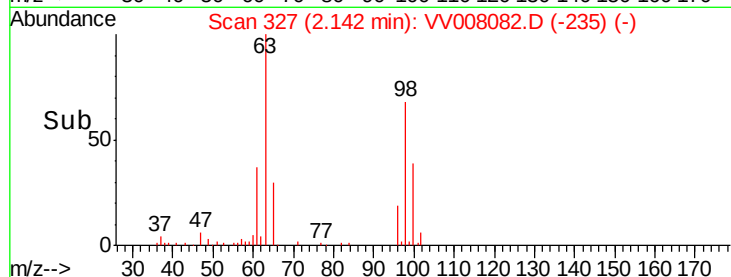
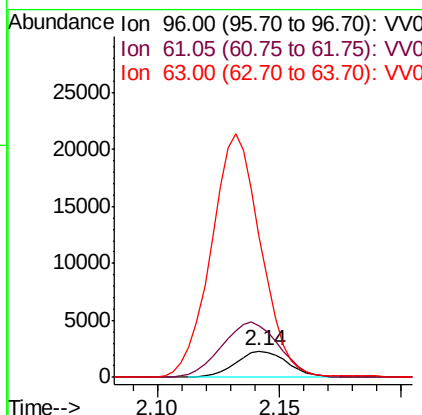
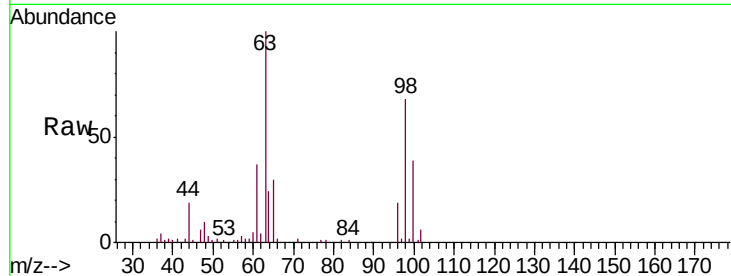




#12
 1,1-Dichloroethene
 Concen: 0.621 ug/L
 RT: 2.14 min Scan# 327
 Delta R.T. -0.00 min
 Lab File: VV008082.D
 Acq: 05 Oct 2018 00:41

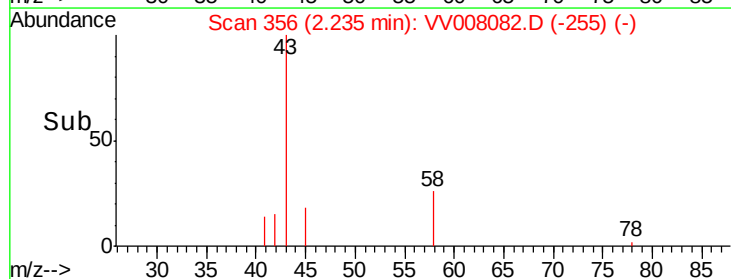
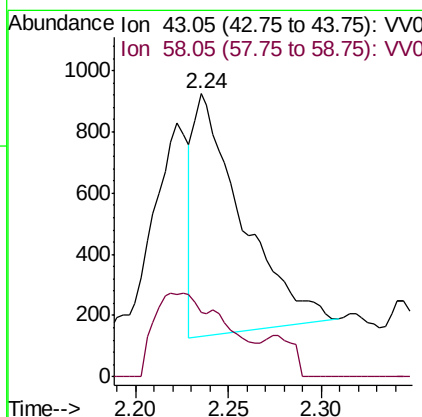
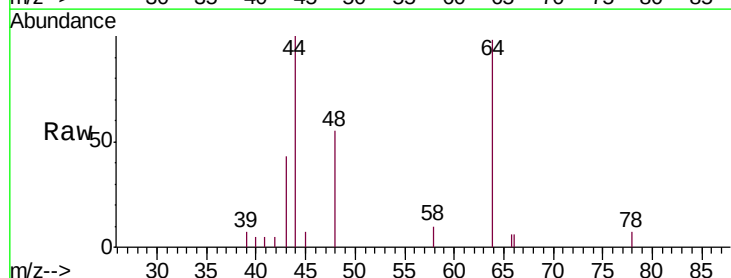
Instrument :
 MSVOA_V
 ClientSampled :
 C0J84

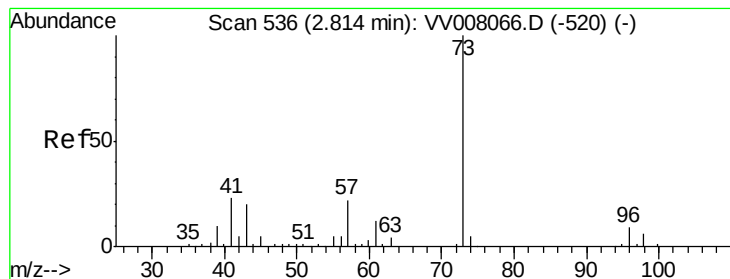
Tgt Ion: 96 Resp: 3372
 Ion Ratio Lower Upper
 96 100
 61 196.5 114.1 211.9
 63 533.7 81.5 151.3#



#13
 Acetone
 Concen: 1.480 ug/L
 RT: 2.24 min Scan# 356
 Delta R.T. 0.03 min
 Lab File: VV008082.D
 Acq: 05 Oct 2018 00:41

Tgt Ion: 43 Resp: 1427
 Ion Ratio Lower Upper
 43 100
 58 11.4 0.0 62.0





#17

Methyl tert-butyl Ether

Concen: 7.649 ug/L

RT: 2.82 min Scan# 537

Delta R.T. 0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Instrument :

MSVOA_V

ClientSampleId :

C0J84

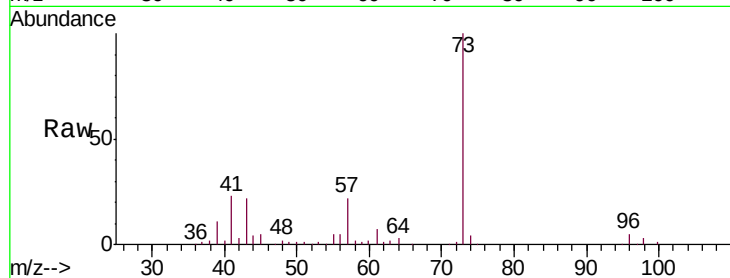
Tgt Ion: 73 Resp: 102550

Ion Ratio Lower Upper

73 100

43 20.5 16.8 25.2

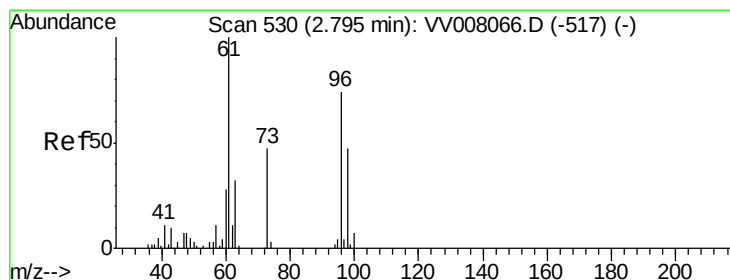
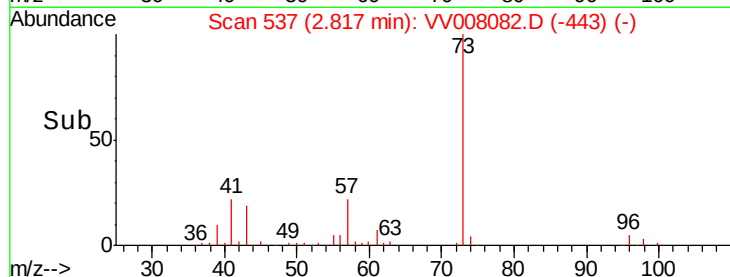
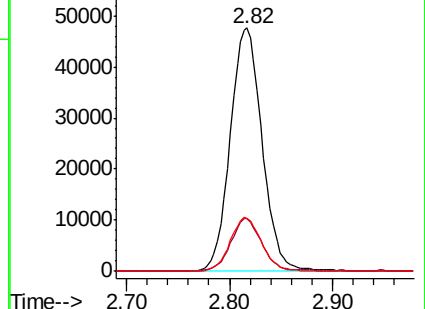
57 21.9 17.6 26.4



Abundance Ion 73.10 (72.80 to 73.80): VV008066.D (-520) (-)

Ion 43.05 (42.75 to 43.75): VV008066.D (-520) (-)

Ion 57.10 (56.80 to 57.80): VV008066.D (-520) (-)



#18

trans-1,2-Dichloroethene

Concen: 7.768 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

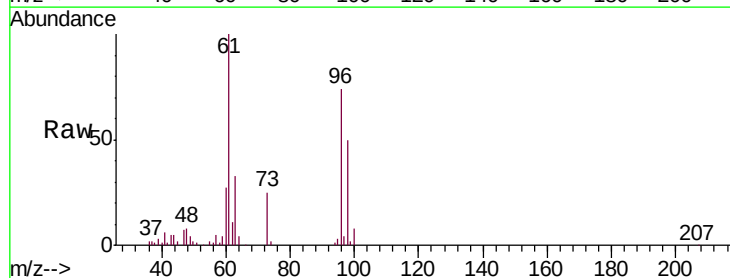
Tgt Ion: 96 Resp: 46470

Ion Ratio Lower Upper

96 100

61 135.8 94.2 175.0

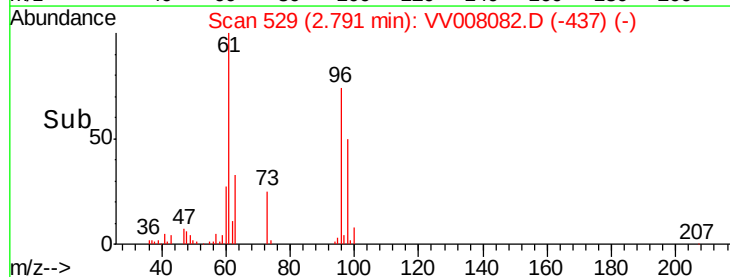
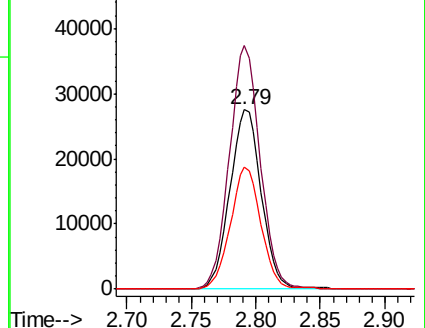
98 67.8 44.9 83.5

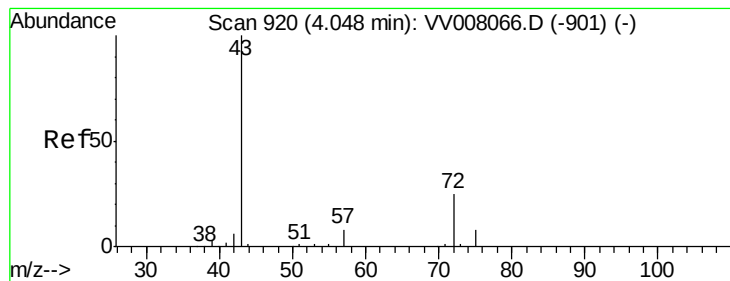


Abundance Ion 96.00 (95.70 to 96.70): VV008066.D (-517) (-)

Ion 61.05 (60.75 to 61.75): VV008066.D (-517) (-)

Ion 97.95 (97.65 to 98.65): VV008066.D (-517) (-)





#21

2-Butanone

Concen: 1.249 ug/L

RT: 4.06 min Scan# 923

Delta R.T. 0.01 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Instrument :

MSVOA_V

ClientSampleId :

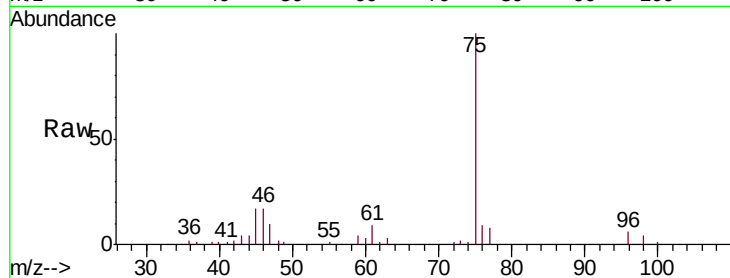
C0J84

Tgt Ion: 43 Resp: 1920

Ion Ratio Lower Upper

43 100

72 0.0 12.5 37.5#



Abundance Ion 43.05 (42.75 to 43.75): VV008066.D (-901) (-)

Ion 72.10 (71.80 to 72.80): VV008066.D (-901) (-)

2500

2000

1500

1000

500

0

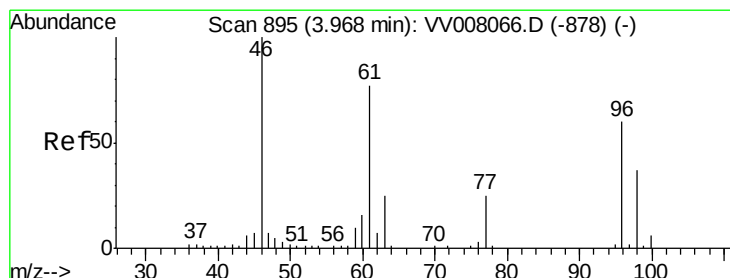
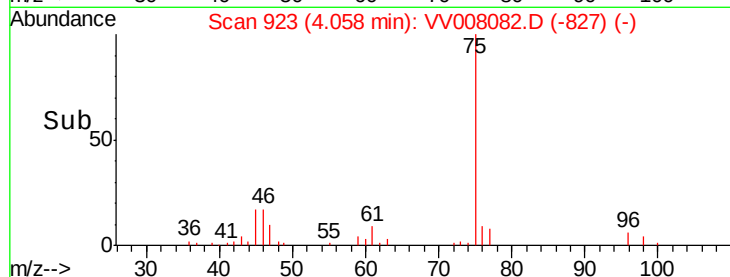
4.00

4.05

4.10

4.15

Time-->



#22

cis-1,2-Dichloroethene

Concen: 94.812 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

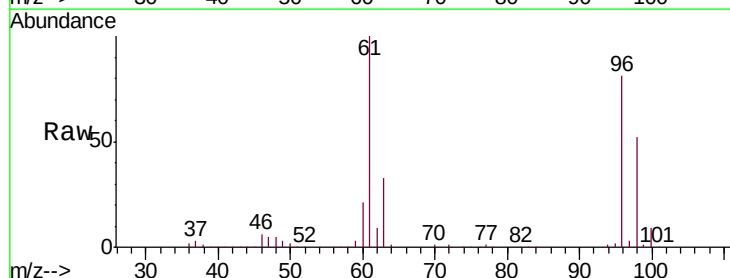
Tgt Ion: 96 Resp: 574270

Ion Ratio Lower Upper

96 100

61 123.9 89.5 166.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV008066.D (-878) (-)

Ion 61.05 (60.75 to 61.75): VV008066.D (-878) (-)

Ion 68.15 (67.85 to 68.85): VV008066.D (-878) (-)

400000

300000

200000

100000

0

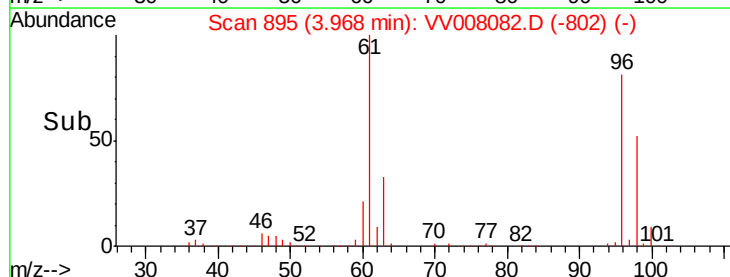
3.90

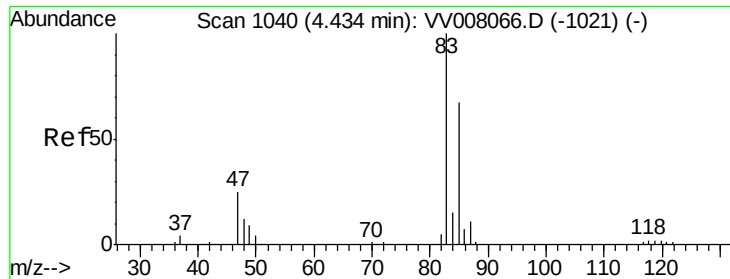
3.97

4.00

4.10

Time-->

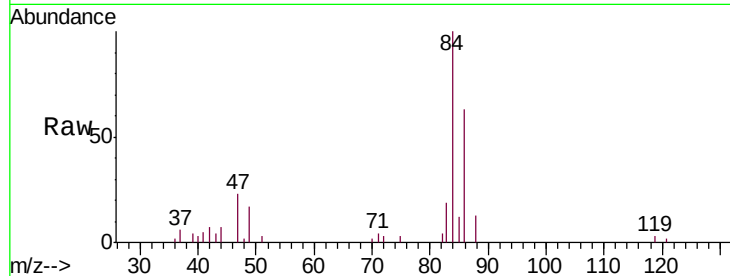




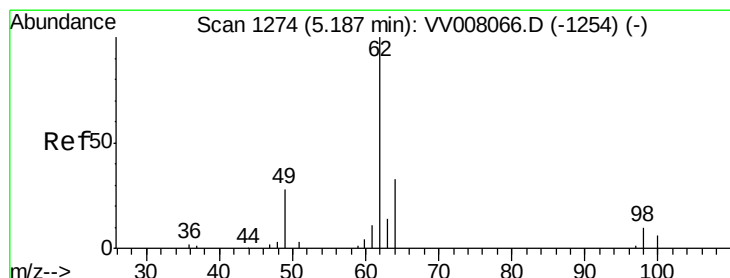
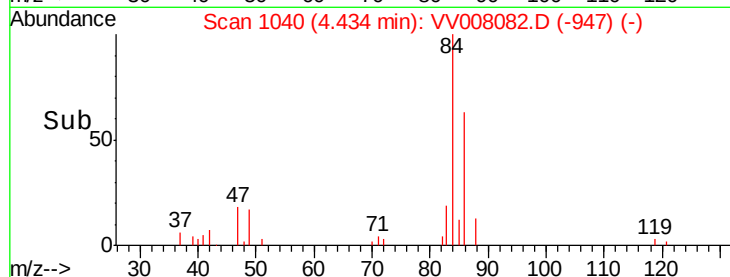
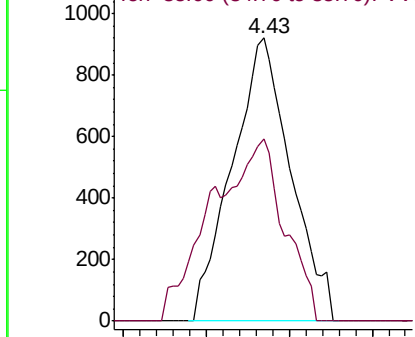
#25
Chloroform
Concen: 0.205 ug/L
RT: 4.43 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VV008082.D
Acq: 05 Oct 2018 00:41

Instrument :
MSVOA_V
ClientSampled :
C0J84

Tgt Ion: 83 Resp: 2265
Ion Ratio Lower Upper
83 100
85 64.2 44.8 83.2

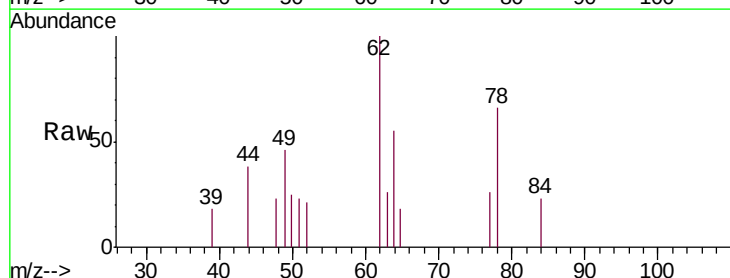


Abundance Ion 83.05 (82.75 to 83.75): VV0
Ion 85.00 (84.70 to 85.70): VV0

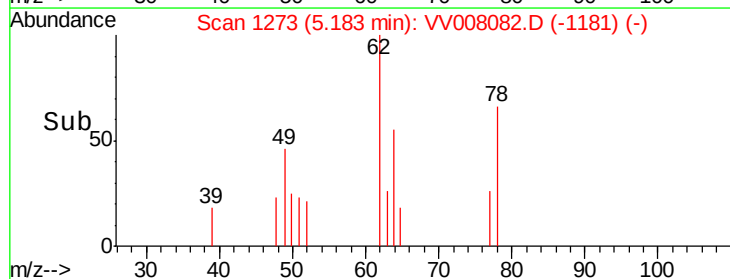
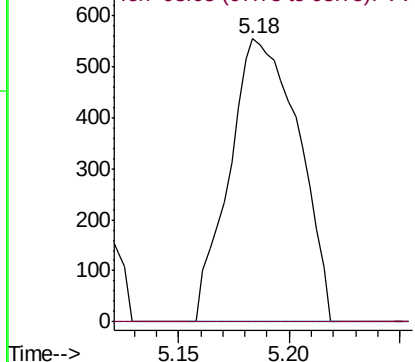


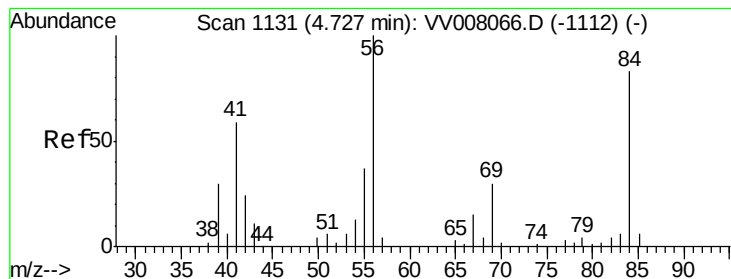
#27
1,2-Dichloroethane
Concen: 0.170 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VV008082.D
Acq: 05 Oct 2018 00:41

Tgt Ion: 62 Resp: 1207
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0





#30

Cyclohexane

Concen: 0.512 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Instrument :

MSVOA_V

ClientSampleId :

C0J84

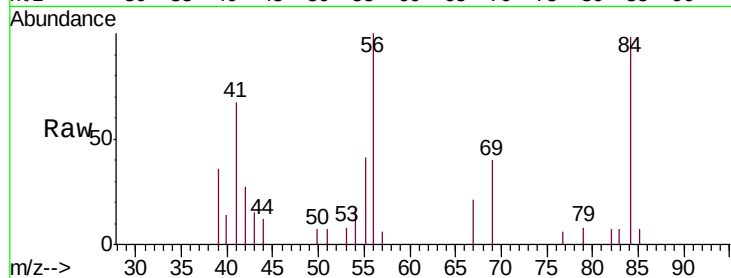
Tgt Ion: 56 Resp: 4581

Ion Ratio Lower Upper

56 100

69 34.3 24.2 36.4

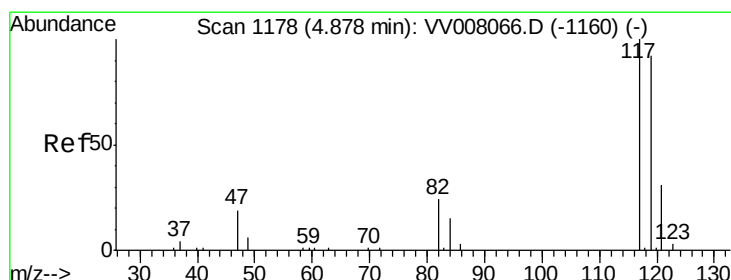
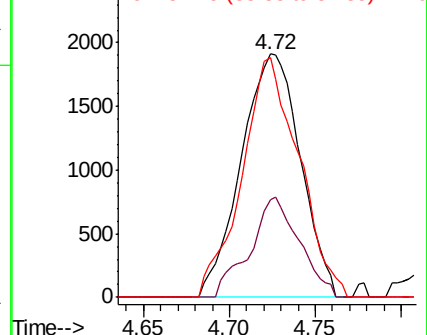
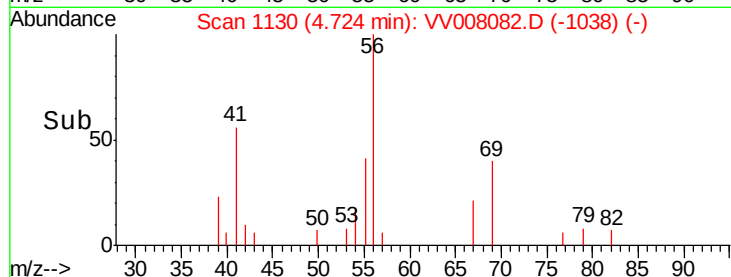
84 94.5 69.8 104.8



Abundance Ion 56.10 (55.80 to 56.80): VV008082.D (-1038) (-)

Ion 69.15 (68.85 to 69.85): VV008082.D (-1038) (-)

Ion 84.15 (83.85 to 84.85): VV008082.D (-1038) (-)



#31

Carbon tetrachloride

Concen: 0.292 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008082.D

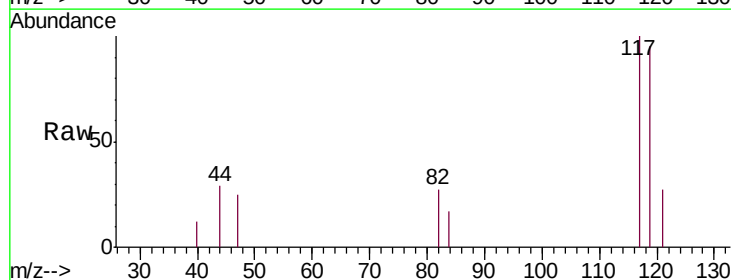
Acq: 05 Oct 2018 00:41

Tgt Ion: 117 Resp: 2450

Ion Ratio Lower Upper

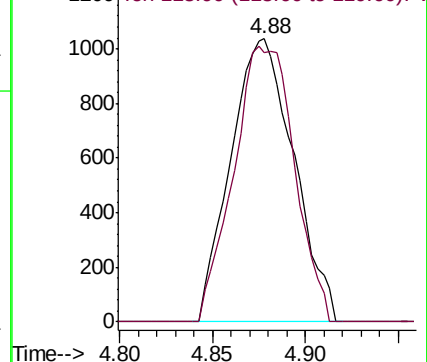
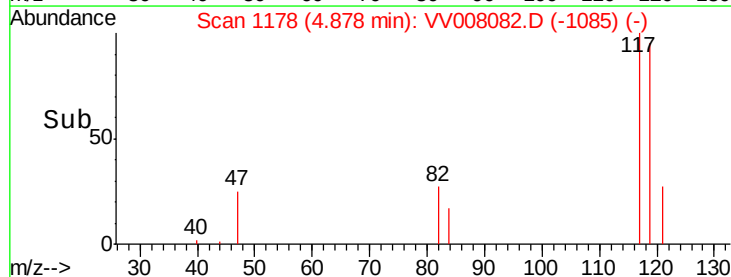
117 100

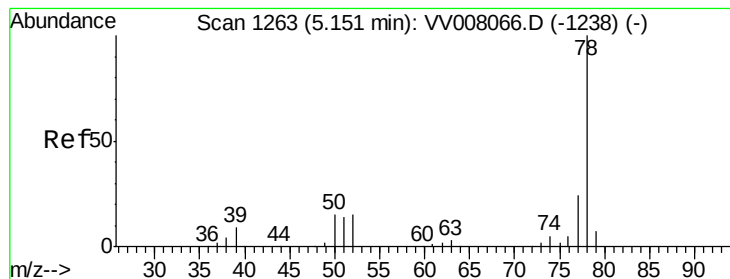
119 93.8 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): VV008082.D (-1085) (-)

Ion 118.90 (118.60 to 119.60): VV008082.D (-1085) (-)





#33

Benzene

Concen: 0.432 ug/L

RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

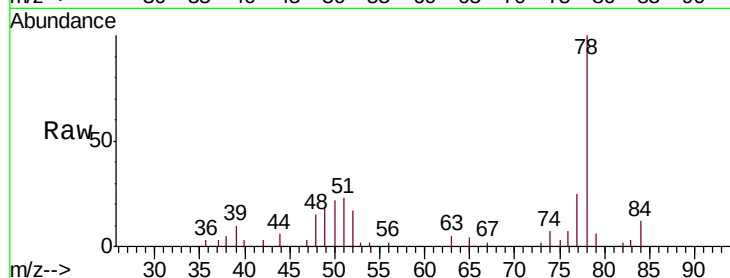
Instrument :

MSVOA_V

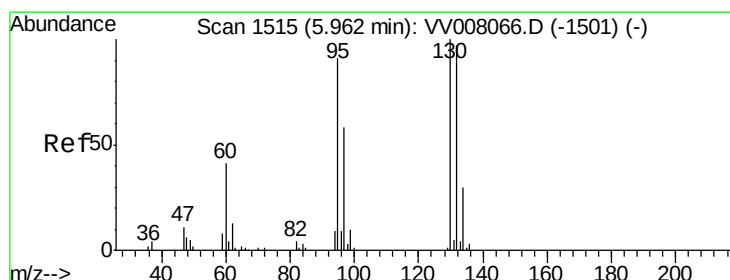
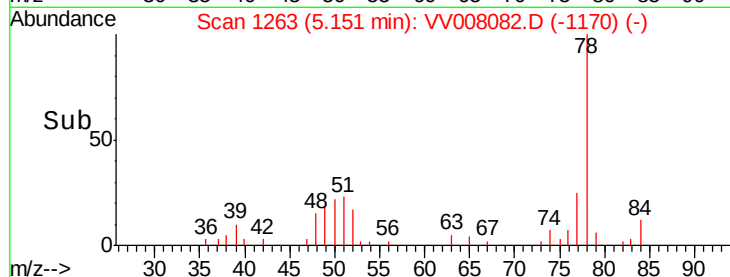
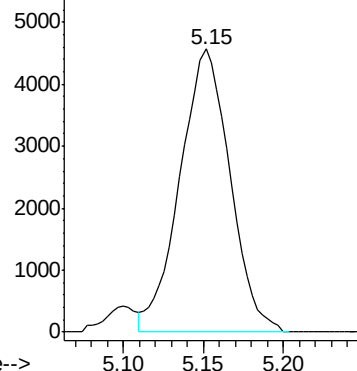
ClientSampleId :

C0J84

Tgt Ion: 78 Resp: 9792



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 1325.915 ug/L

RT: 5.97 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Tgt Ion: 95 Resp: 8600992

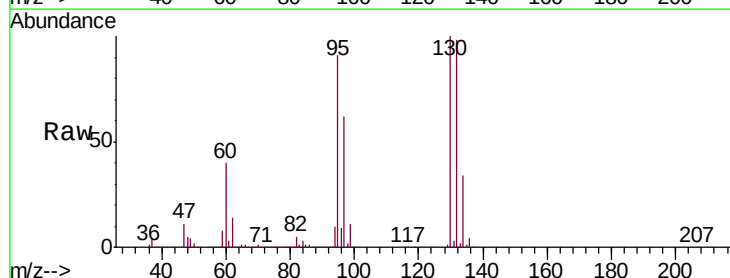
Ion	Ratio	Lower	Upper
95	100		
97	68.0	43.6	81.0
132	107.1	69.9	129.9
130	109.6	71.7	133.3

95 100

97 68.0 43.6 81.0

132 107.1 69.9 129.9

130 109.6 71.7 133.3

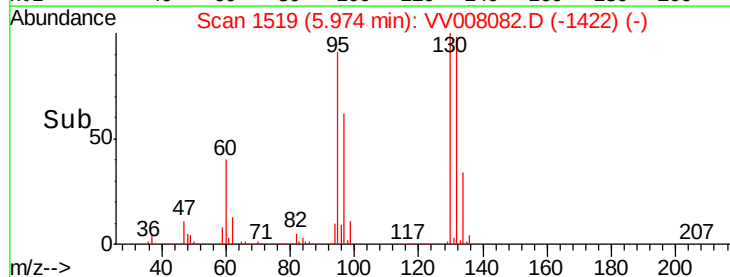
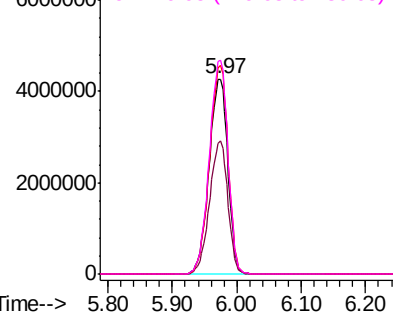


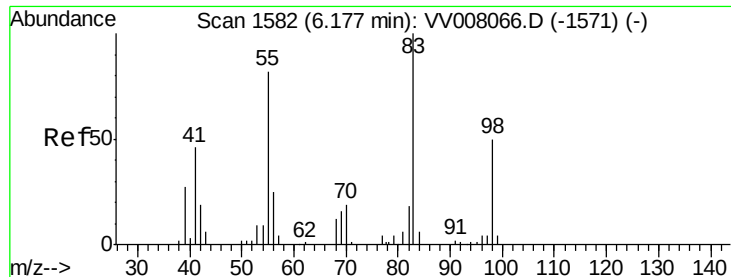
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

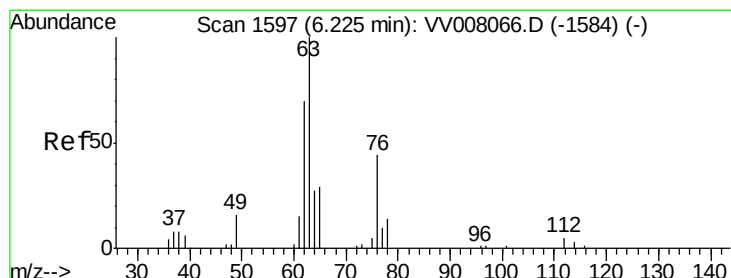
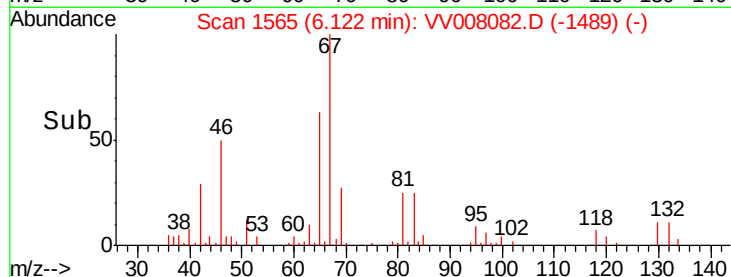
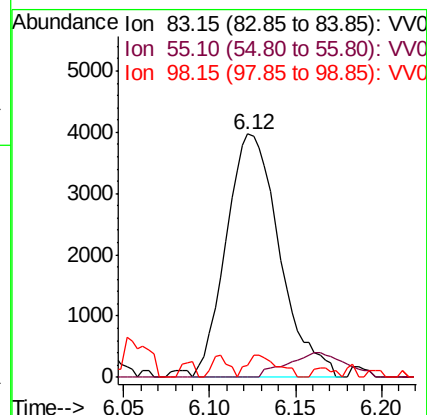
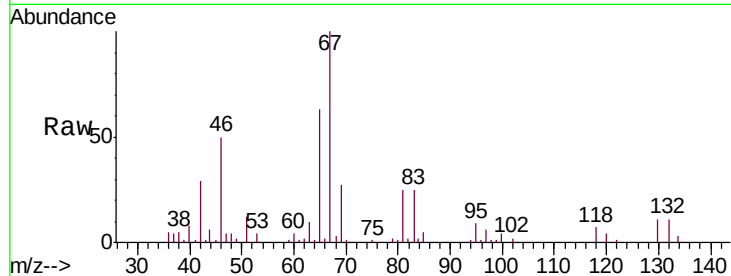




#35
Methylcyclohexane
Concen: 0.883 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.05 min
Lab File: VV008082.D
Acq: 05 Oct 2018 00:41

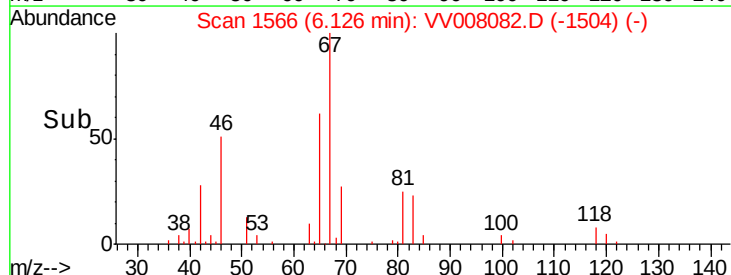
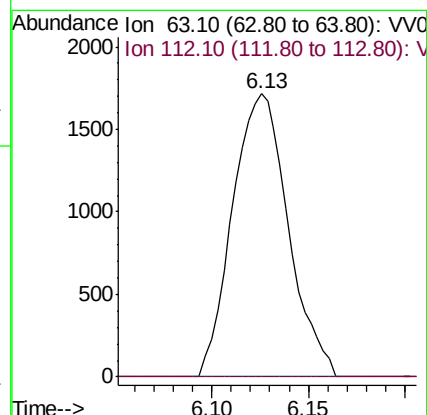
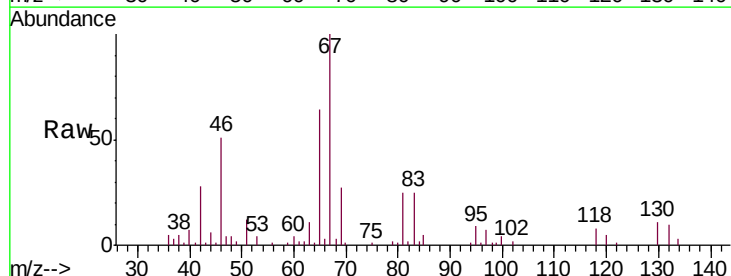
Instrument :
MSVOA_V
ClientSampled :
C0J84

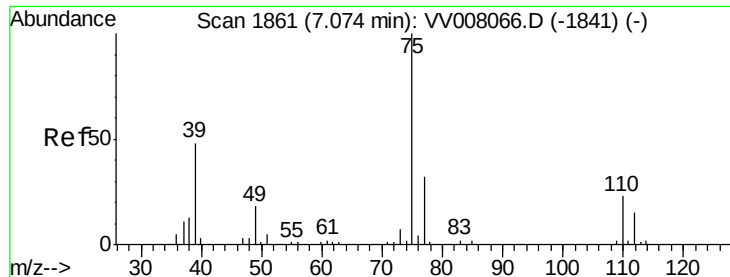
Tgt Ion: 83 Resp: 8590
Ion Ratio Lower Upper
83 100
55 11.0 62.2 93.2#
98 0.0 38.0 57.0#



#37
1,2-Dichloropropane
Concen: 0.594 ug/L
RT: 6.13 min Scan# 1566
Delta R.T. -0.10 min
Lab File: VV008082.D
Acq: 05 Oct 2018 00:41

Tgt Ion: 63 Resp: 3440
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#





#39

cis-1,3-Dichloropropene

Concen: 0.108 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Instrument :

MSVOA_V

ClientSampleId :

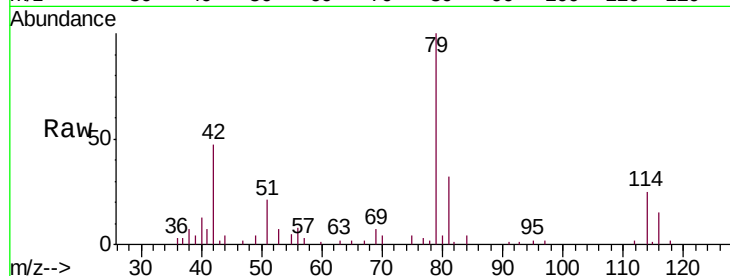
C0J84

Tgt Ion: 75 Resp: 836

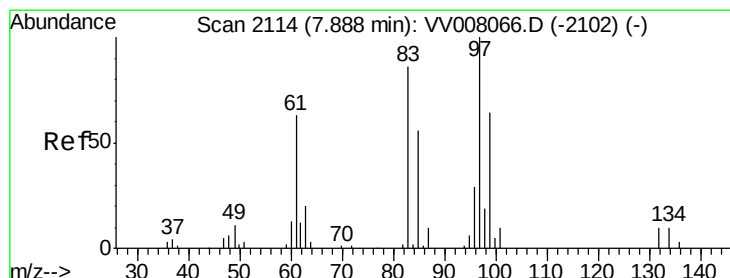
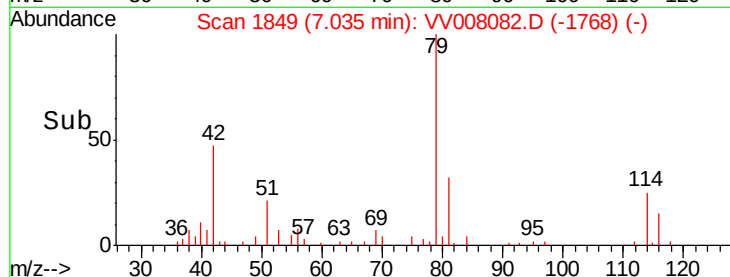
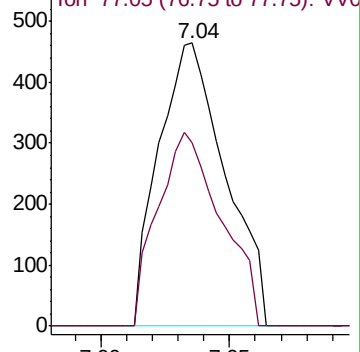
Ion Ratio Lower Upper

75 100

77 64.7 22.9 42.5#



Abundance Ion 75.05 (74.75 to 75.75): VV008066.D (-1841) (-)



#45

1,1,2-Trichloroethane

Concen: 0.975 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Tgt Ion: 97 Resp: 4073

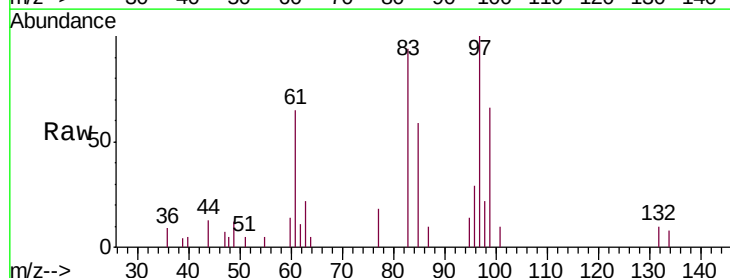
Ion Ratio Lower Upper

97 100

99 65.7 43.5 80.9

83 93.7 59.7 110.9

85 58.6 39.5 73.3

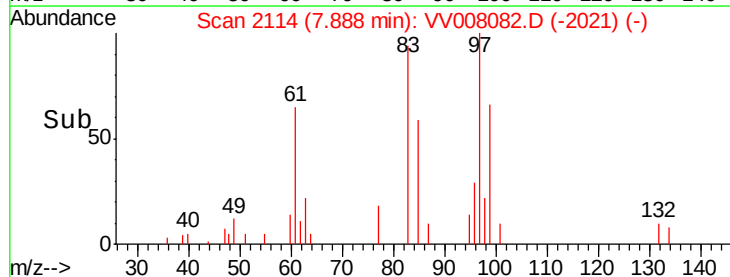
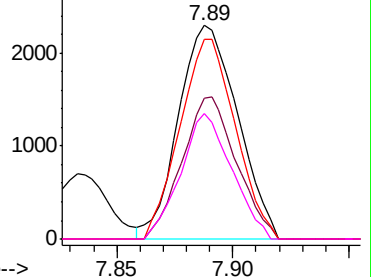


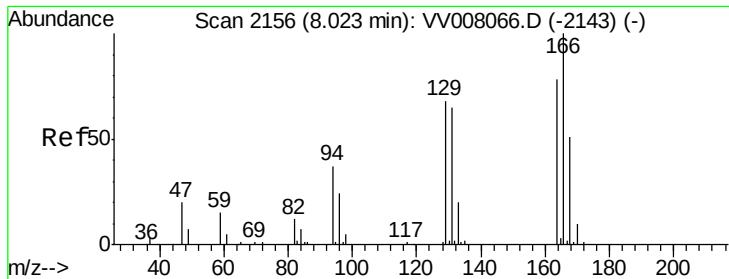
Abundance Ion 96.95 (96.65 to 97.65): VV008066.D (-2102) (-)

Ion 99.05 (98.75 to 99.75): VV008066.D (-2102) (-)

Ion 82.95 (82.65 to 83.65): VV008066.D (-2102) (-)

Ion 85.00 (84.70 to 85.70): VV008066.D (-2102) (-)





#47

Tetrachloroethene

Concen: 8.540 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Instrument :

MSVOA_V

ClientSampleId :

C0J84

Tgt Ion:164 Resp: 51333

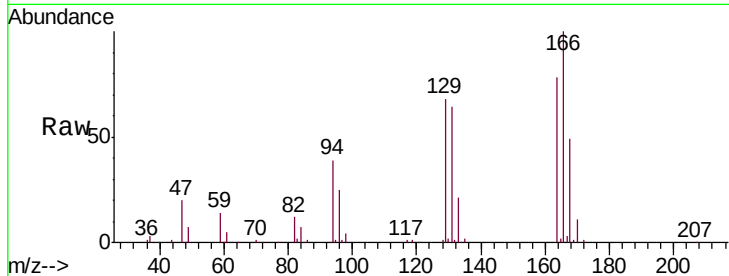
Ion Ratio Lower Upper

164 100

129 86.6 59.2 110.0

131 81.9 57.1 106.1

166 128.0 88.6 164.6

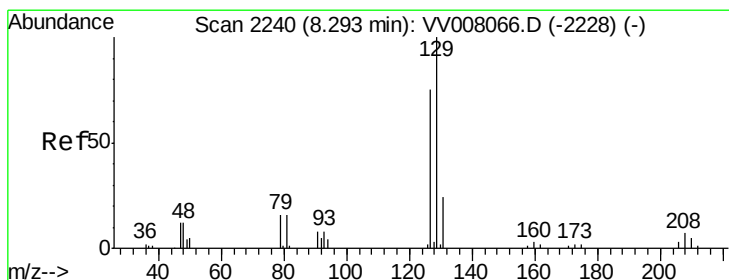
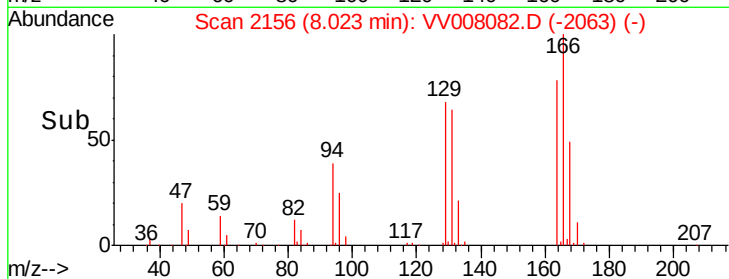
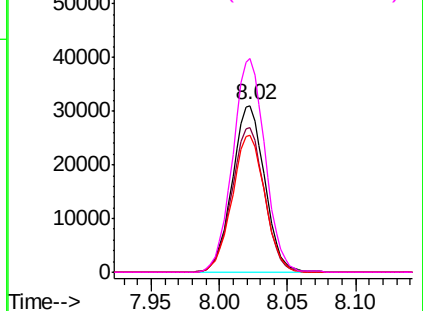


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 8.976 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. -0.27 min

Lab File: VV008082.D

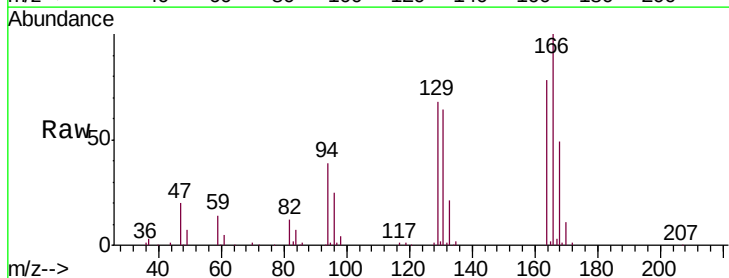
Acq: 05 Oct 2018 00:41

Tgt Ion:129 Resp: 42797

Ion Ratio Lower Upper

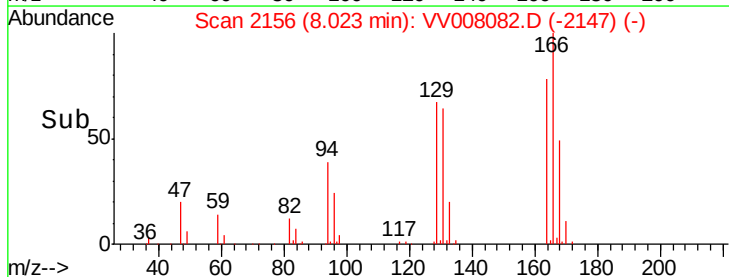
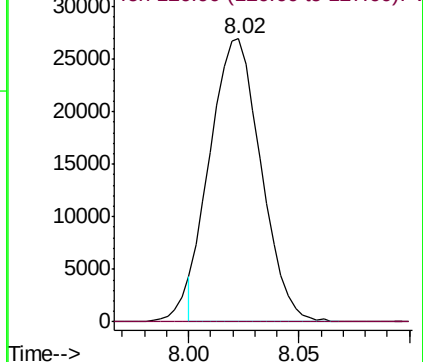
129 100

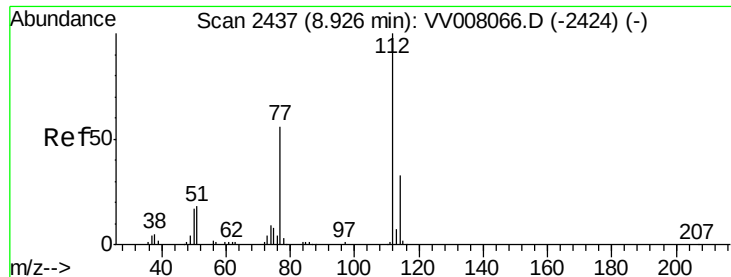
127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#51

Chlorobenzene

Concen: 0.132 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

Instrument :

MSVOA_V

ClientSampleId :

C0J84

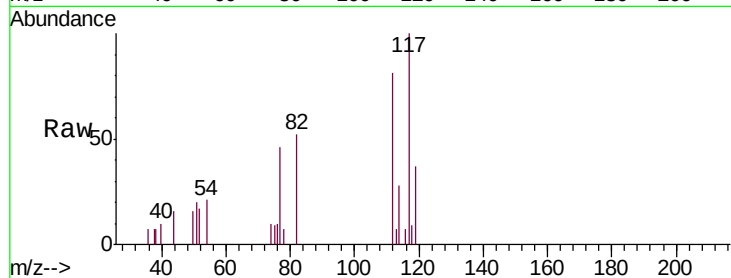
Tgt Ion: 112 Resp: 2248

Ion Ratio Lower Upper

112 100

114 34.3 22.4 41.6

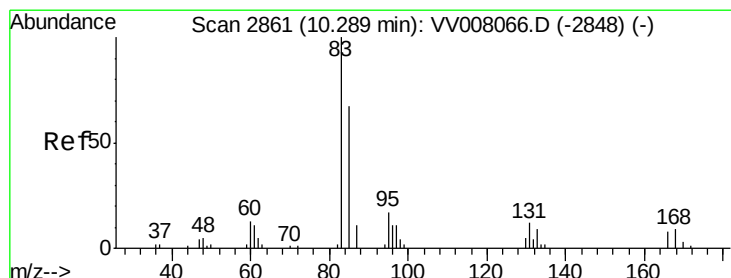
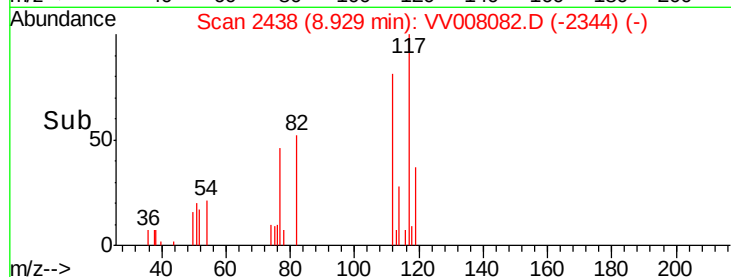
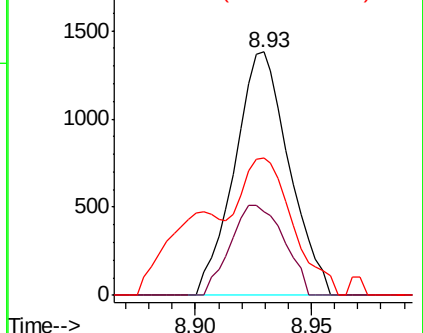
77 65.7 45.0 67.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 1.037 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008082.D

Acq: 05 Oct 2018 00:41

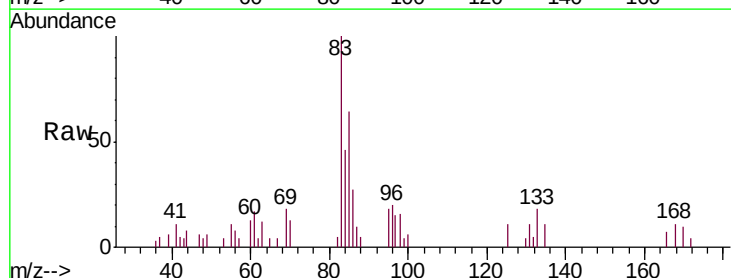
Tgt Ion: 83 Resp: 5087

Ion Ratio Lower Upper

83 100

85 63.6 43.7 81.1

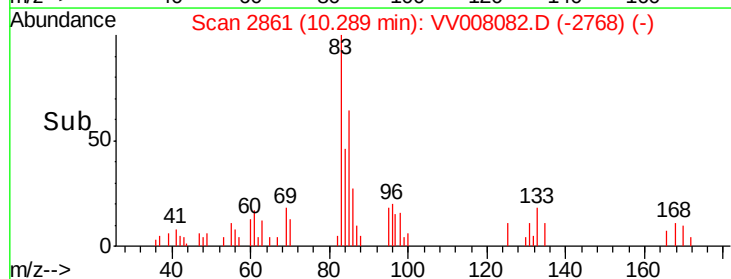
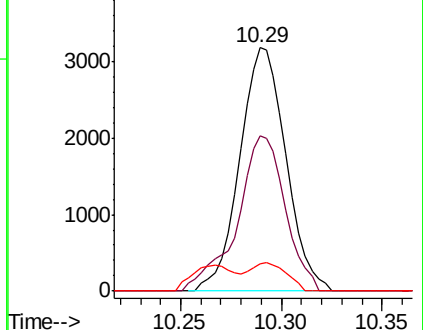
131 11.3 9.0 13.4

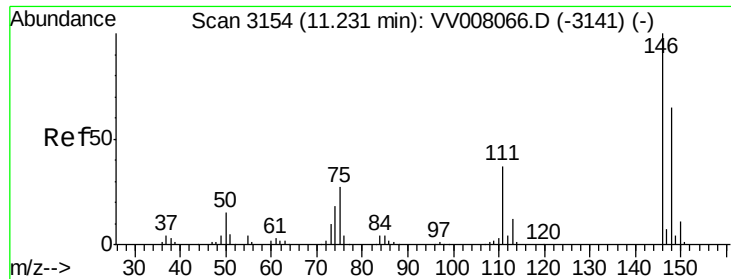


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

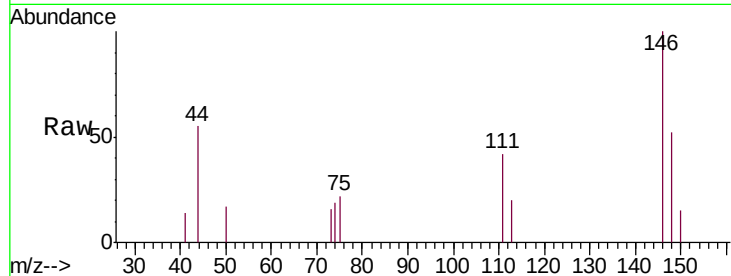




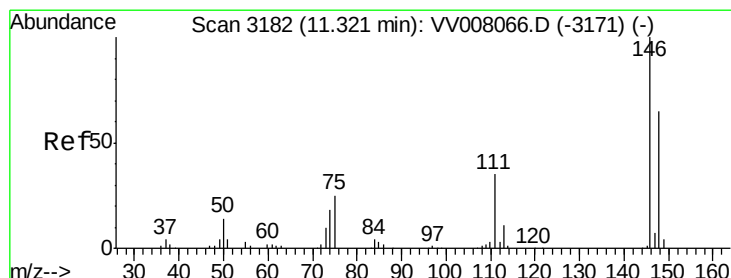
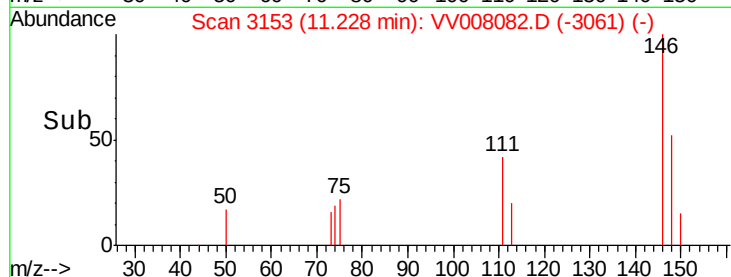
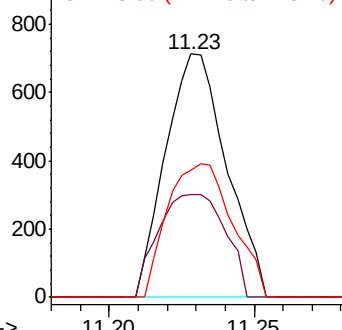
#62
 1,3-Dichlorobenzene
 Concen: 0.080 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV008082.D
 Acq: 05 Oct 2018 00:41

Instrument :
 MSVOA_V
 ClientSampleId :
 C0J84

Tgt Ion:146 Resp: 1043
 Ion Ratio Lower Upper
 146 100
 111 42.1 25.8 48.0
 148 52.3 44.7 82.9

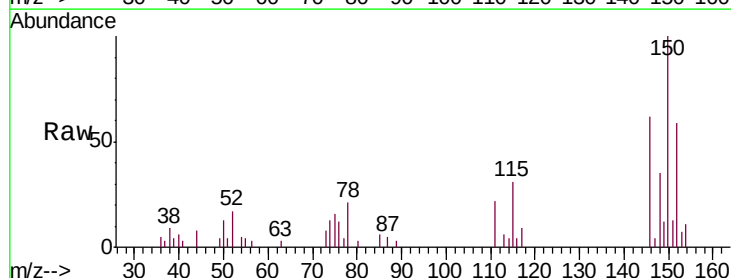


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

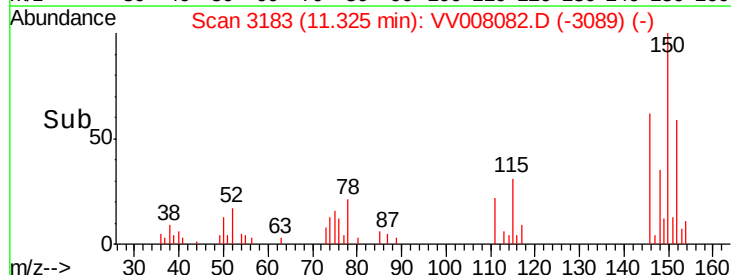
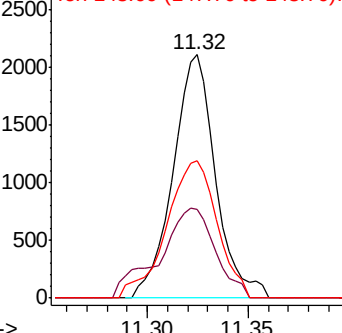


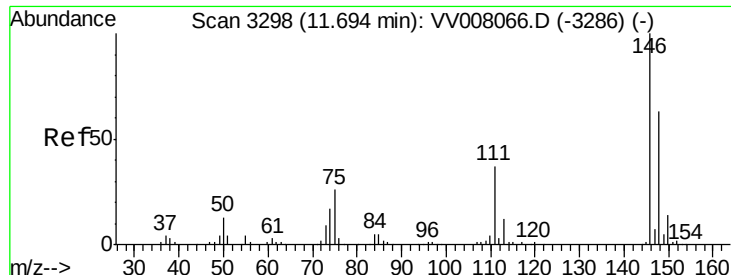
#63
 1,4-Dichlorobenzene
 Concen: 0.230 ug/L
 RT: 11.32 min Scan# 3183
 Delta R.T. 0.00 min
 Lab File: VV008082.D
 Acq: 05 Oct 2018 00:41

Tgt Ion:146 Resp: 3124
 Ion Ratio Lower Upper
 146 100
 111 36.4 25.3 47.1
 148 56.4 44.7 82.9



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

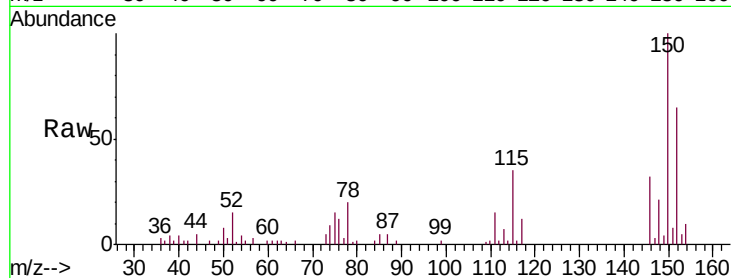




#65
 1,2-Dichlorobenzene
 Concen: 0.362 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VV008082.D
 Acq: 05 Oct 2018 00:41

Instrument :
 MSVOA_V
 ClientSampleId :
 C0J84

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.6	31.2	46.8
148	65.8	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

