

Data File : VV009074.D
Acq On : 20 Dec 2018 02:52
Operator : SY/MD
Sample : J6468-09
Misc : 3.98G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0JG7

Quant Time: Dec 20 03:51:09 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 20 03:44:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	80899	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	33865	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	3923	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	46836	55.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	223.80%#
7) Chloroethane-d5	1.58	69	52589	85.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	340.12%#
10) 1,1-Dichloroethene-d2	2.13	63	83670	39.97	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	159.88%#
20) 2-Butanone-d5	4.04	46	245	0.80	ug/L	0.10
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1.60%#
24) Chloroform-d	4.40	84	132428	68.09	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	272.36%#
26) 1,2-Dichloroethane-d4	5.08	65	72462	68.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	273.12%#
29) Benzene-d6	5.10	84	151799	80.26	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	321.04%#
33) 1,2-Dichloropropane-d6	6.12	67	79316	149.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	599.16%#
37) Toluene-d8	7.36	98	90374	51.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	206.52%#
38) trans-1,3-Dichloropropene-	7.67	79	17404	74.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	299.24%#
39) 2-Hexanone-d5	8.14	63	12365	127.47	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	254.94%#
48) 1,1,2,2-Tetrachloroethane-	10.26	84	44710	100.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	402.64%#
61) 1,2-Dichlorobenzene-d4	11.68	152	4999	33.95	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	135.80%#

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	477	0.523 ug/L	98
9) Trichlorofluoromethane	2.13	101	769	0.441 ug/L #	38
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	769	0.643 ug/L #	18
12) 1,1-Dichloroethene	2.13	96	758	0.727 ug/L #	1
13) Acetone	2.20	43	2557	5.694 ug/L	62
14) Carbon disulfide	2.32	76	2009	0.600 ug/L #	84
16) Methylene chloride	2.53	84	6807	4.997 ug/L	96
18) trans-1,2-Dichloroethene	2.79	96	3162	2.806 ug/L	100
21) 2-Butanone	3.99	43	5694	13.529 ug/L #	47
22) cis-1,2-Dichloroethene	3.96	96	17232	14.666 ug/L	94
25) Chloroform	4.43	83	4277	2.182 ug/L #	27
27) 1,2-Dichloroethane	5.10	62	869	0.651 ug/L #	75
35) Trichloroethene	5.96	95	42246	69.065 ug/L	99
40) 1,2-Dichloropropane	6.12	63	8968	18.417 ug/L #	85
42) cis-1,3-Dichloropropene	7.03	75	1453	2.038 ug/L #	38
45) trans-1,3-Dichloropropene	7.67	75	722	1.162 ug/L #	78
46) 1,1,2-Trichloroethane	8.02	97	417	1.028 ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Thu Dec 20 03:44:50 2018
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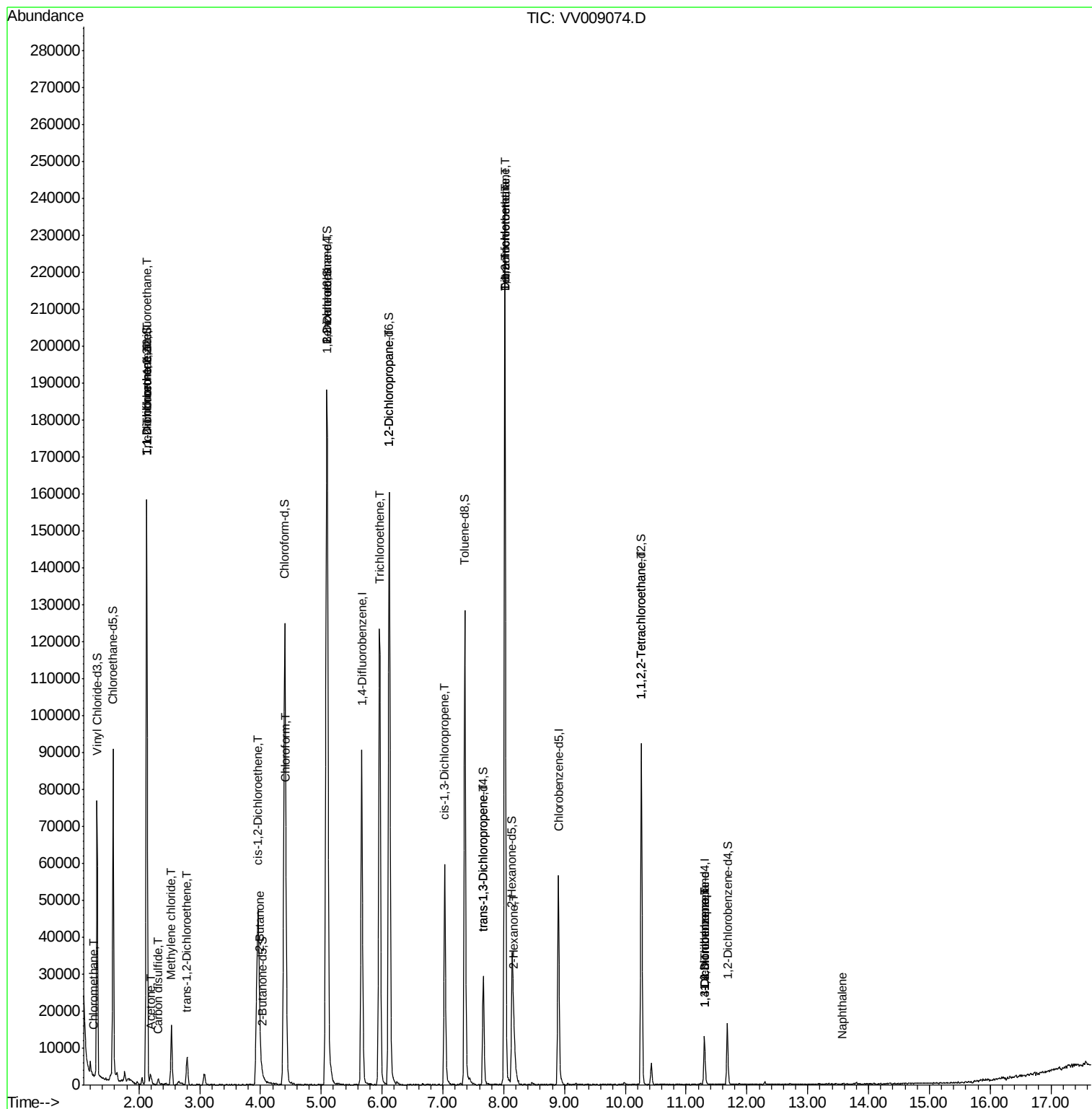
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.02	164	54451	109.460	ug/L	99
49) 2-Hexanone	8.17	43	8135	29.876	ug/L #	56
50) Dibromochloromethane	8.02	129	50483	108.545	ug/L #	11
58) 1,1,2,2-Tetrachloroethane	10.27	83	267	0.609	ug/L #	1
59) 1,2,3-Trichloropropane	11.29	75	215	0.566	ug/L #	43
63) 1,3-Dichlorobenzene	11.32	146	159	0.629	ug/L #	25
64) 1,4-Dichlorobenzene	11.32	146	159	0.611	ug/L #	25
69) Naphthalene	13.57	128	113	0.513	ug/L #	70

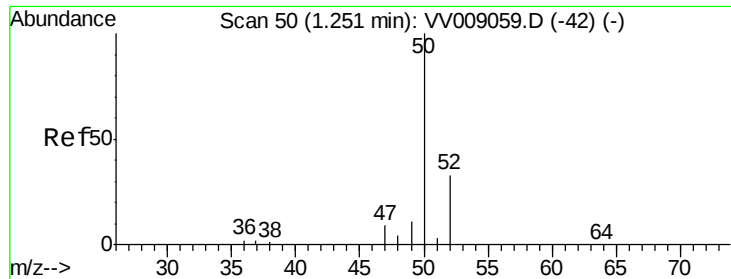
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.523 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

Instrument :

MSVOA_V

ClientSampleId :

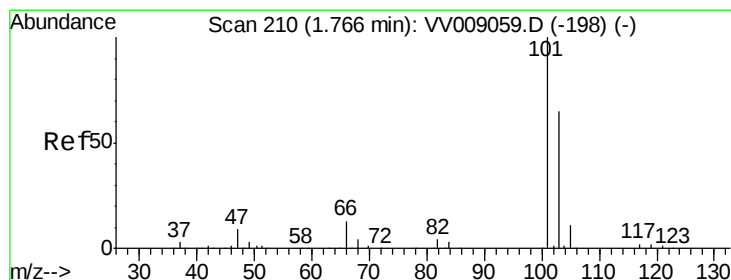
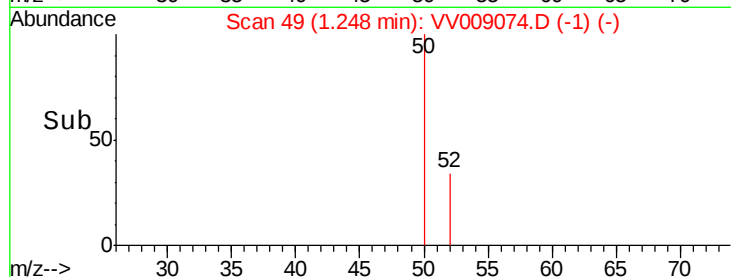
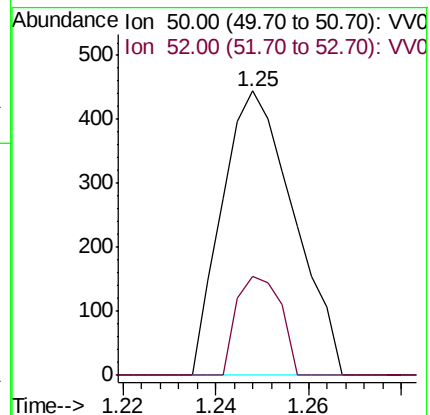
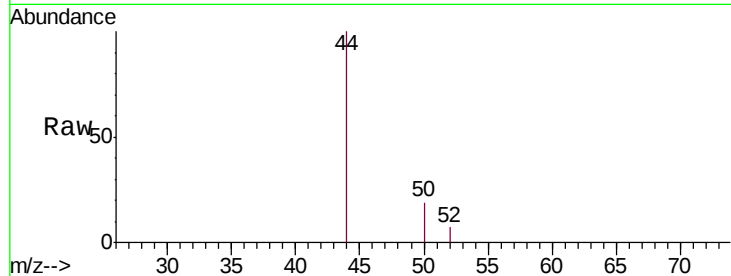
C0JG7

Tgt Ion: 50 Resp: 477

Ion Ratio Lower Upper

50 100

52 34.5 23.2 43.2



#9

Trichlorofluoromethane

Concen: 0.441 ug/L

RT: 2.13 min Scan# 322

Delta R.T. 0.36 min

Lab File: VV009074.D

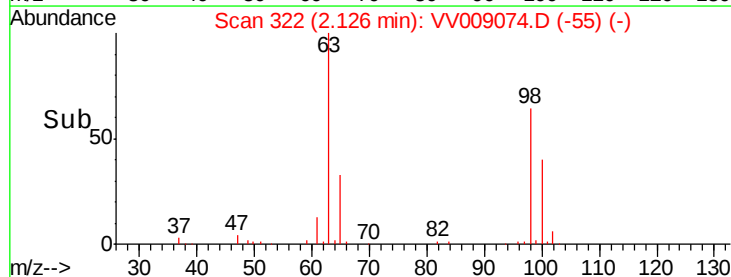
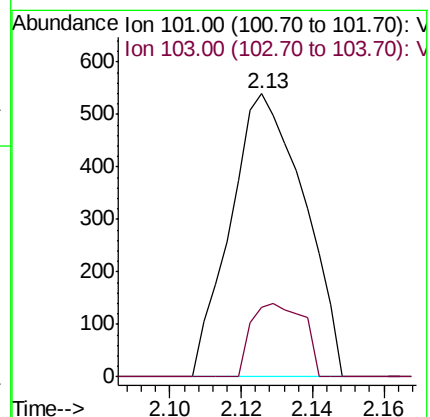
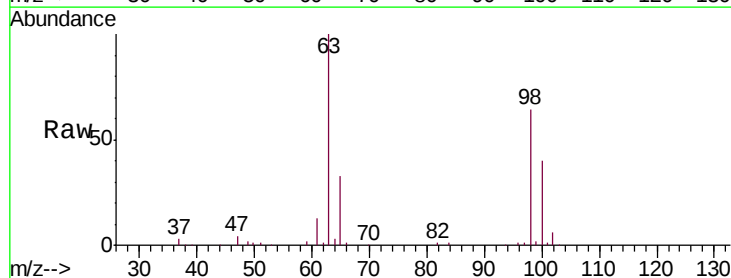
Acq: 20 Dec 2018 02:52

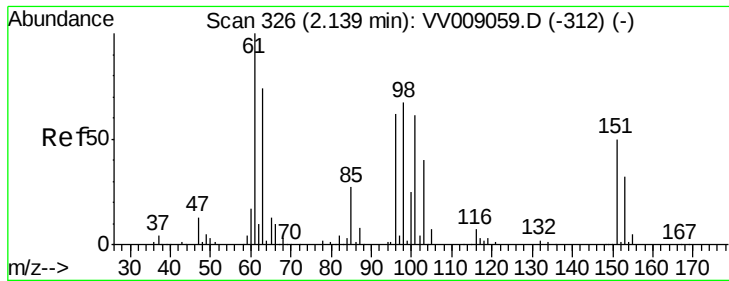
Tgt Ion: 101 Resp: 769

Ion Ratio Lower Upper

101 100

103 15.6 44.8 83.2#





#11

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

Concen: 0.643 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

Instrument :

MSVOA_V

ClientSampleId :

C0JG7

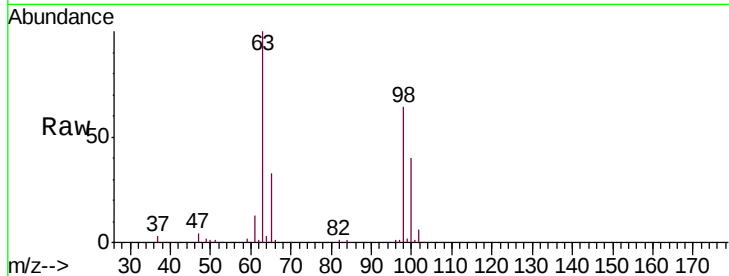
Tgt Ion:101 Resp: 769

Ion Ratio Lower Upper

101 100

85 0.0 32.5 48.7#

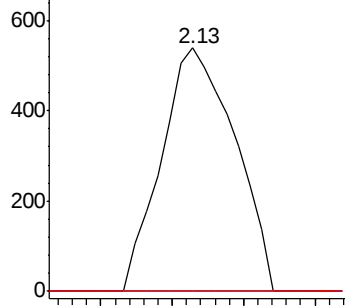
151 0.0 64.2 96.4#



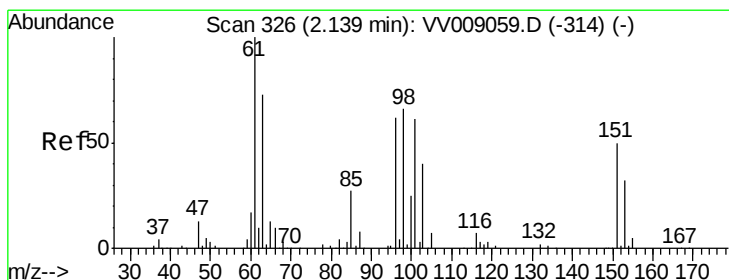
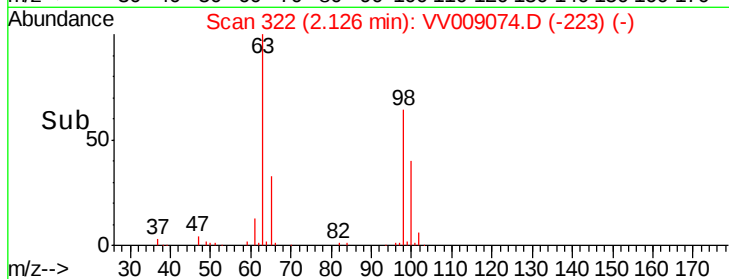
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 0.727 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

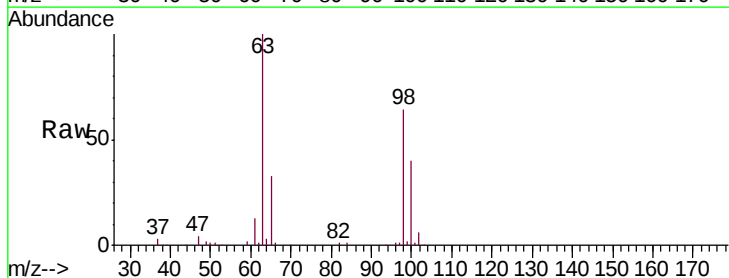
Tgt Ion: 96 Resp: 758

Ion Ratio Lower Upper

96 100

61 1347.8 114.0 211.6#

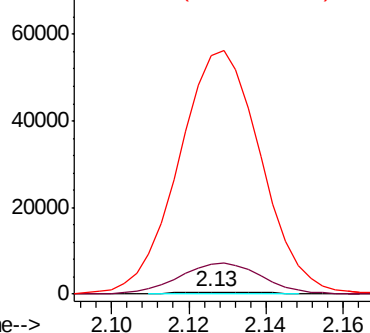
63 10724.4 82.4 153.0#



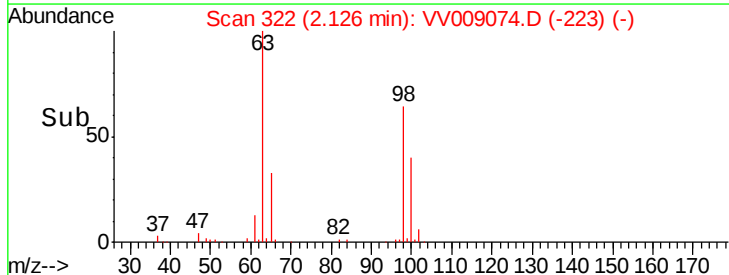
Abundance Ion 96.00 (95.70 to 96.70): VV0

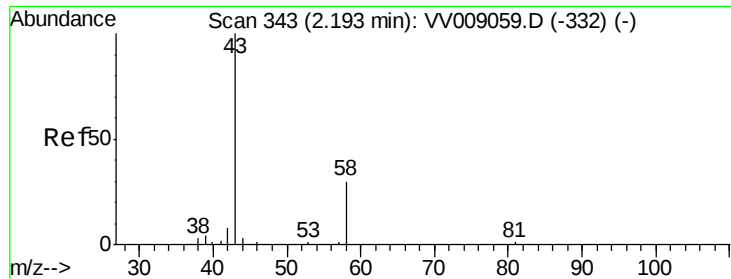
Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0



Time-->





#13

Acetone

Concen: 5.694 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.01 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

Instrument :

MSVOA_V

ClientSampled :

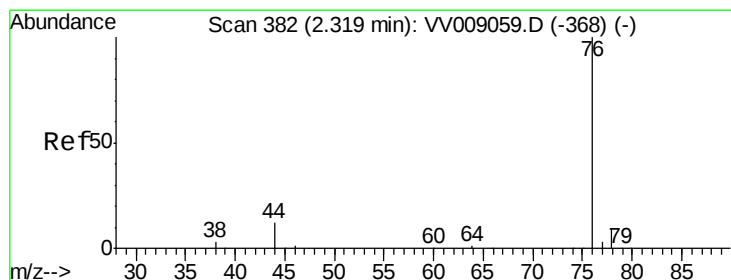
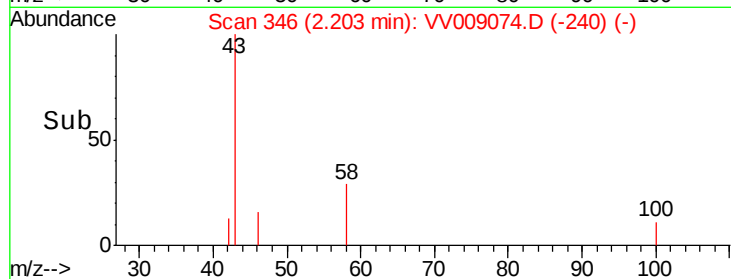
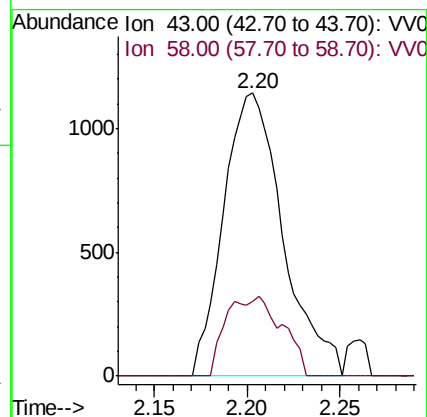
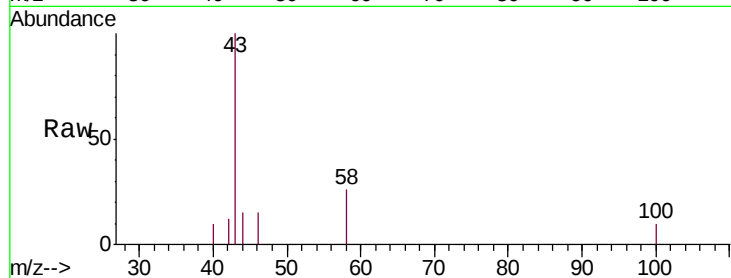
C0JG7

Tgt Ion: 43 Resp: 2557

Ion Ratio Lower Upper

43 100

58 11.1 0.0 65.4



#14

Carbon disulfide

Concen: 0.600 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV009074.D

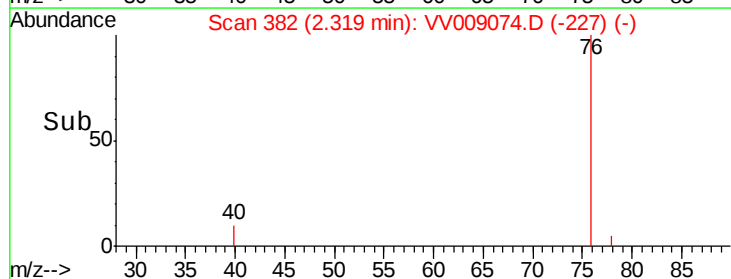
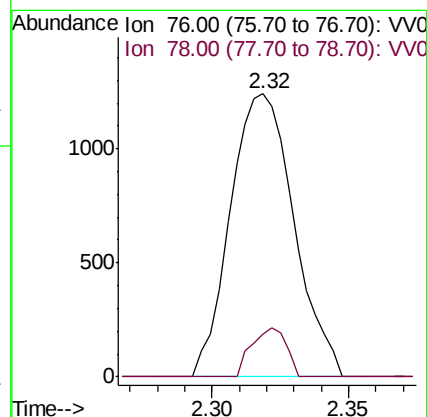
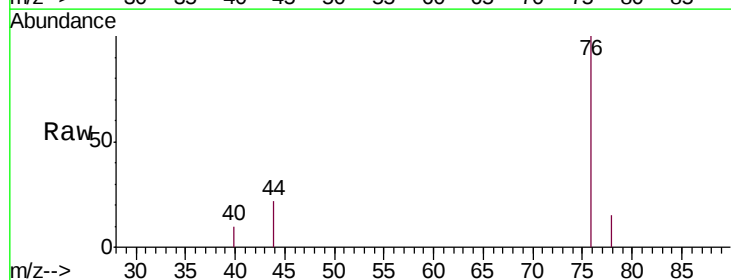
Acq: 20 Dec 2018 02:52

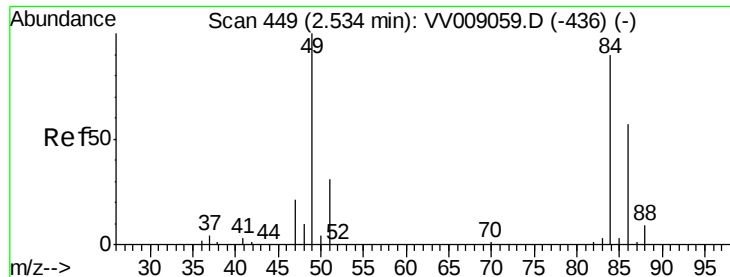
Tgt Ion: 76 Resp: 2009

Ion Ratio Lower Upper

76 100

78 15.1 7.4 11.0#

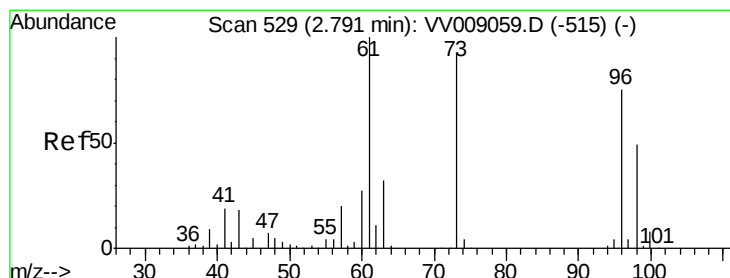
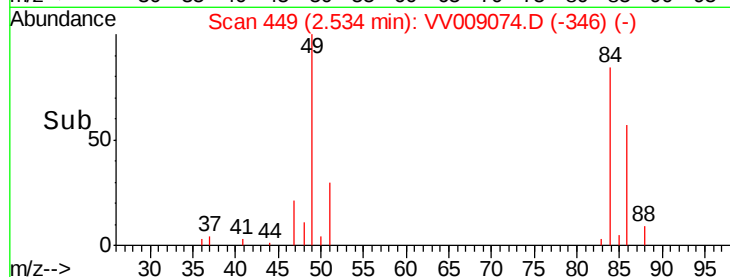
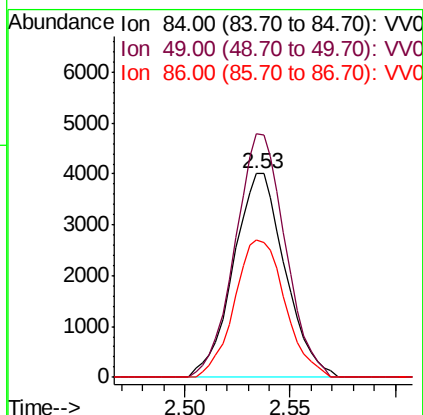
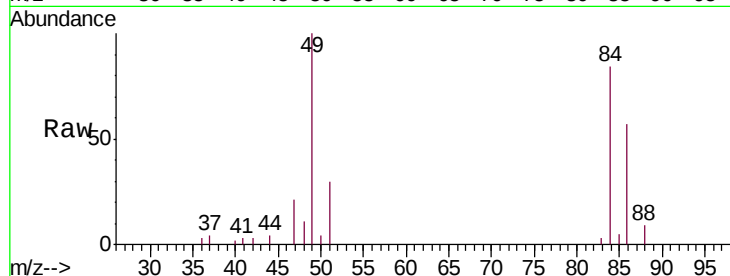




#16
Methylene chloride
Concen: 4.997 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

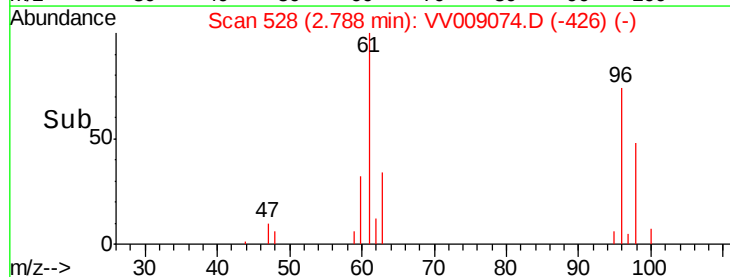
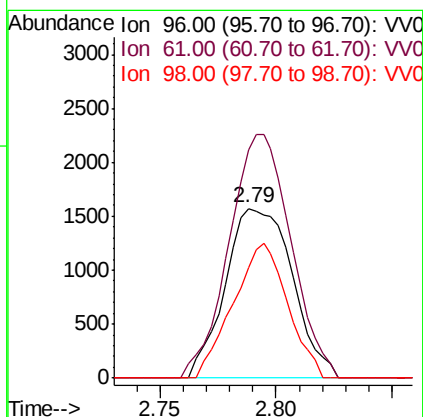
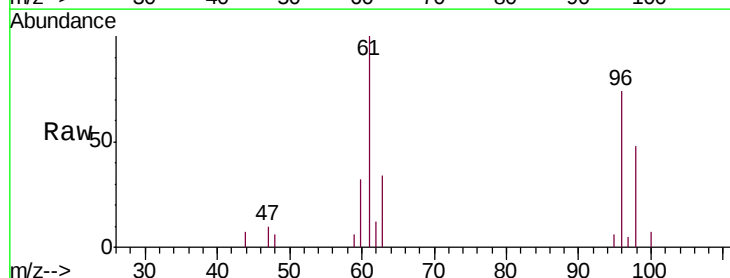
Instrument :
MSVOA_V
ClientSampled :
C0JG7

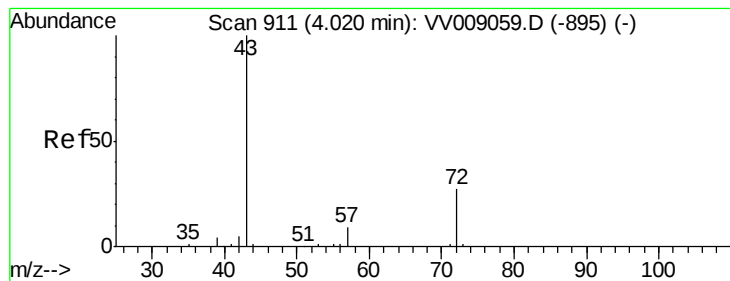
Tgt Ion: 84 Resp: 6807
Ion Ratio Lower Upper
84 100
49 119.6 80.5 149.5
86 67.7 45.5 84.5



#18
trans-1,2-Dichloroethene
Concen: 2.806 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

Tgt Ion: 96 Resp: 3162
Ion Ratio Lower Upper
96 100
61 135.1 94.6 175.8
98 65.0 45.3 84.1





#21

2-Butanone

Concen: 13.529 ug/L

RT: 3.99 min Scan# 903

Delta R.T. -0.03 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

Instrument :

MSVOA_V

ClientSampled :

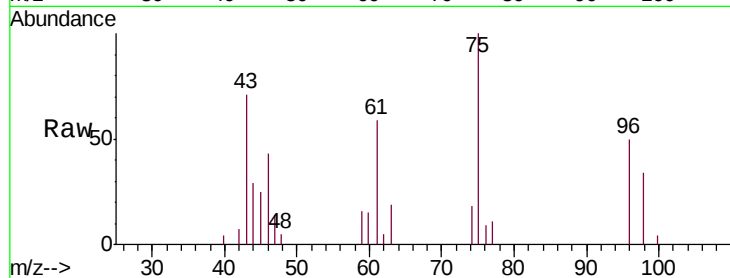
C0JG7

Tgt Ion: 43 Resp: 5694

Ion Ratio Lower Upper

43 100

72 0.0 13.7 41.1#



Abundance Ion 43.00 (42.70 to 43.70): VV009059.D (-895) (-)

Ion 72.00 (71.70 to 72.70): VV009059.D (-895) (-)

3.99

1500

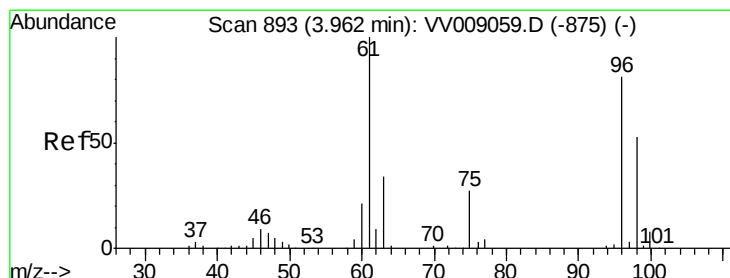
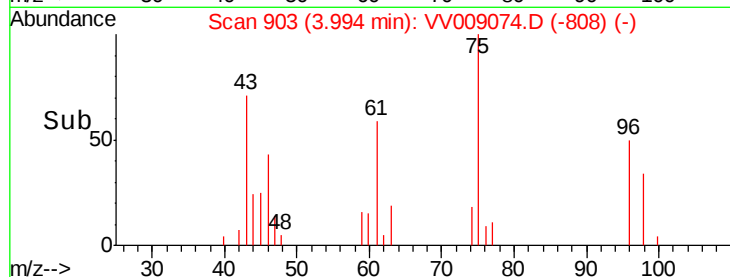
1000

500

0

3.90 3.95 4.00 4.05

Time-->



#22

cis-1,2-Dichloroethene

Concen: 14.666 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

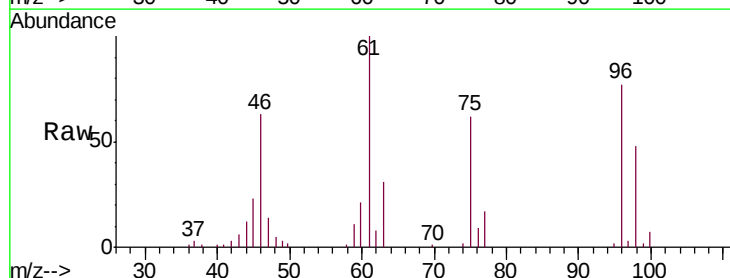
Tgt Ion: 96 Resp: 17232

Ion Ratio Lower Upper

96 100

61 130.7 86.2 160.0

98 62.3 45.6 84.6



Abundance Ion 96.00 (95.70 to 96.70): VV009059.D (-875) (-)

Ion 61.00 (60.70 to 61.70): VV009059.D (-875) (-)

Ion 98.00 (97.70 to 98.70): VV009059.D (-875) (-)

12000

10000

8000

6000

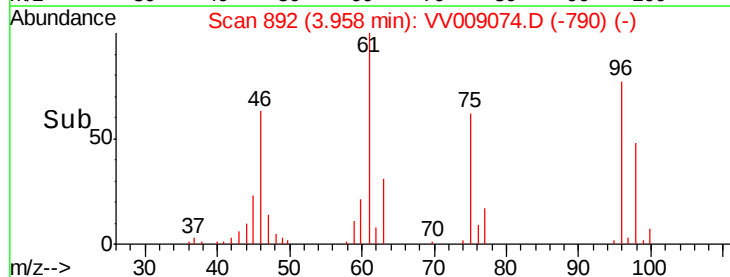
4000

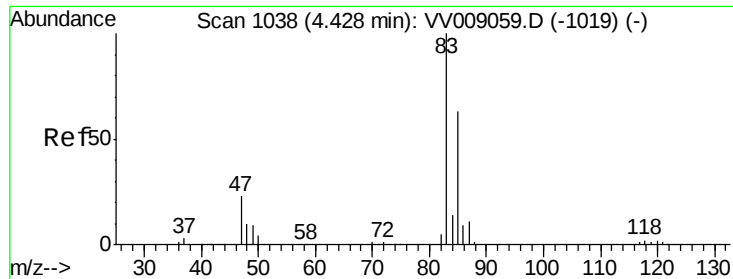
2000

0

3.90 3.95 4.00 4.05

Time-->

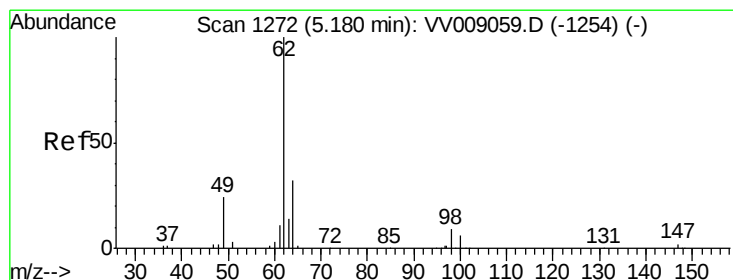
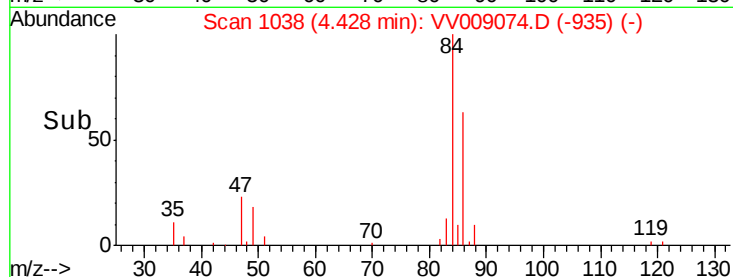
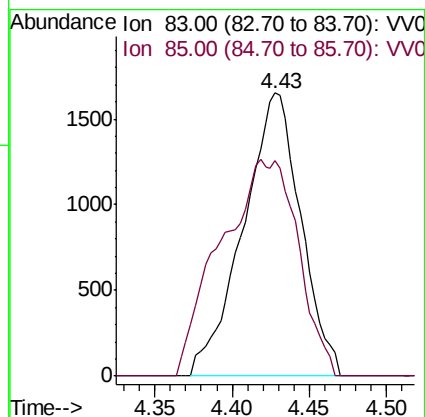
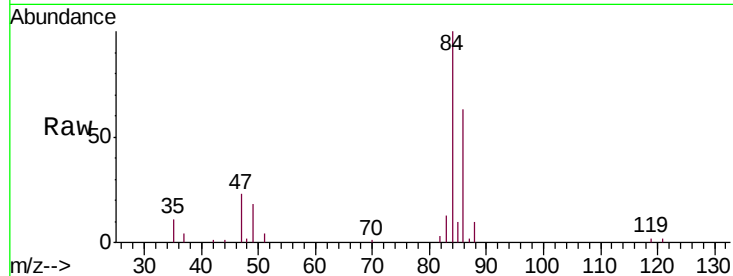




#25
Chloroform
Concen: 2.182 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

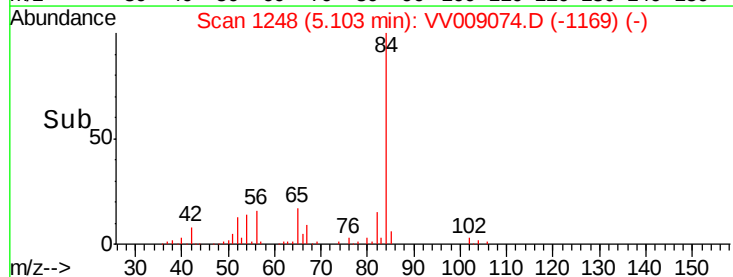
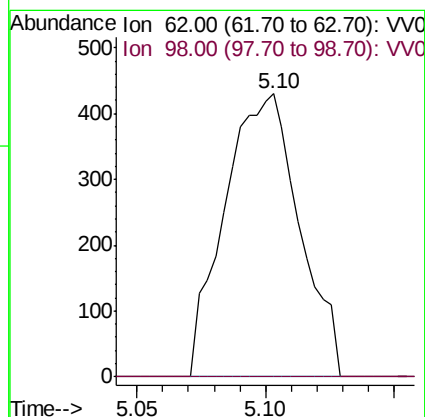
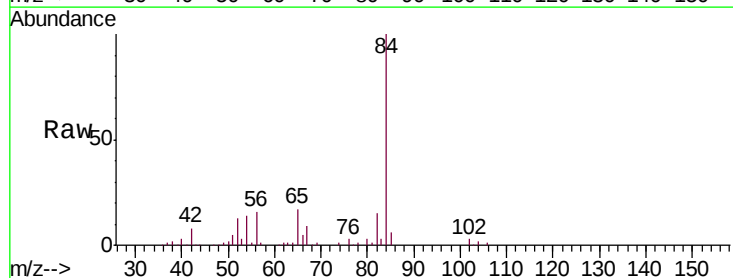
Instrument :
MSVOA_V
ClientSampled :
C0JG7

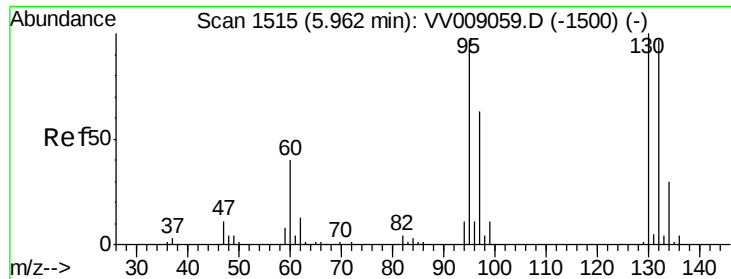
Tgt Ion: 83 Resp: 4277
Ion Ratio Lower Upper
83 100
85 7.5 45.6 84.8#



#27
1,2-Dichloroethane
Concen: 0.651 ug/L
RT: 5.10 min Scan# 1248
Delta R.T. -0.08 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

Tgt Ion: 62 Resp: 869
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.0#





#35

Trichloroethene

Concen: 69.065 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

Instrument :

MSVOA_V

ClientSampleId :

C0JG7

Tgt Ion: 95 Resp: 42246

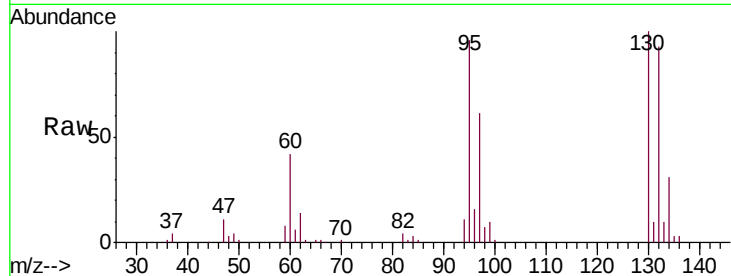
Ion Ratio Lower Upper

95 100

97 65.4 45.3 84.1

132 99.9 70.0 130.0

130 105.6 73.4 136.4

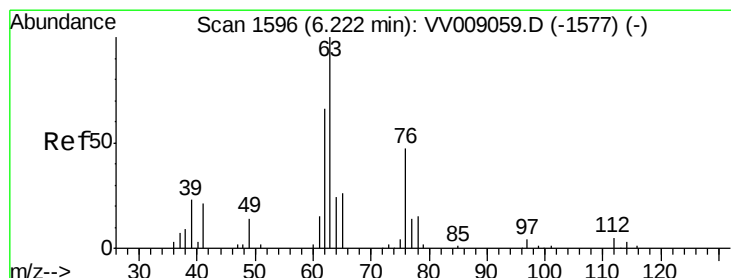
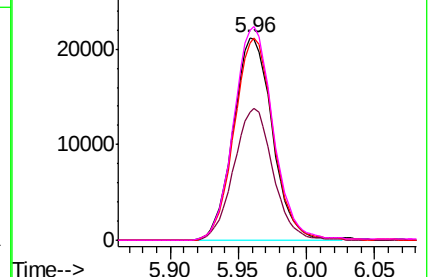
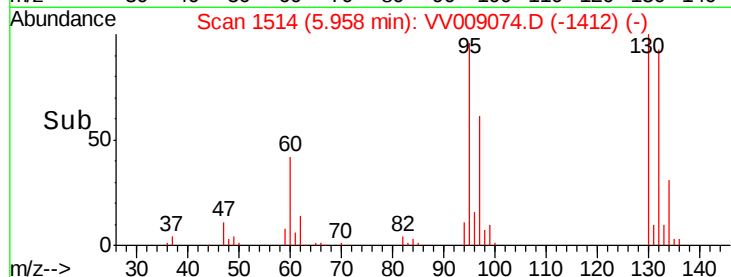


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#40

1,2-Dichloropropane

Concen: 18.417 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV009074.D

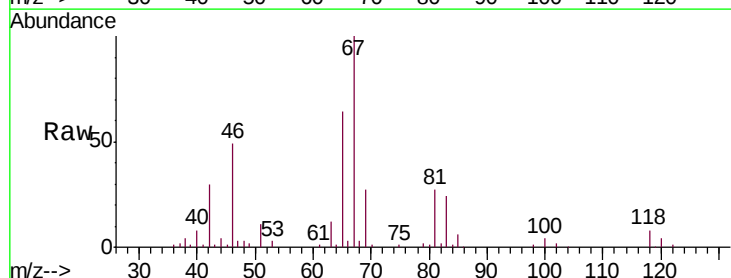
Acq: 20 Dec 2018 02:52

Tgt Ion: 63 Resp: 8968

Ion Ratio Lower Upper

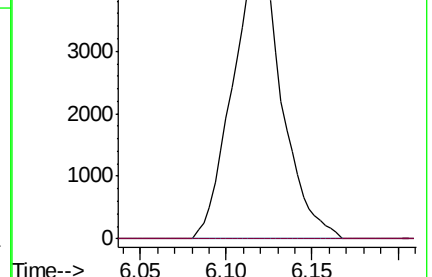
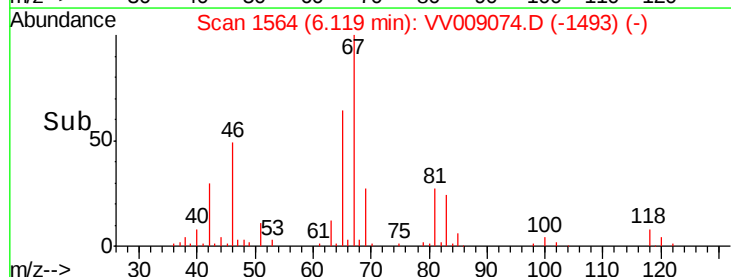
63 100

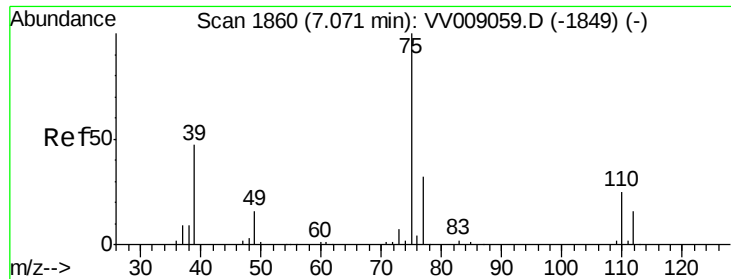
112 0.0 3.8 5.8#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V



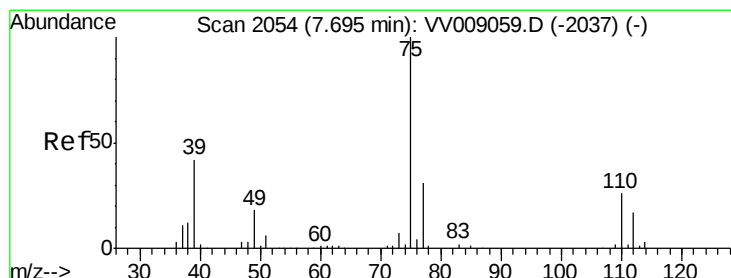
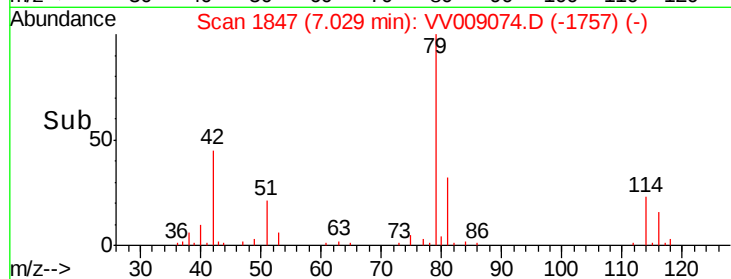
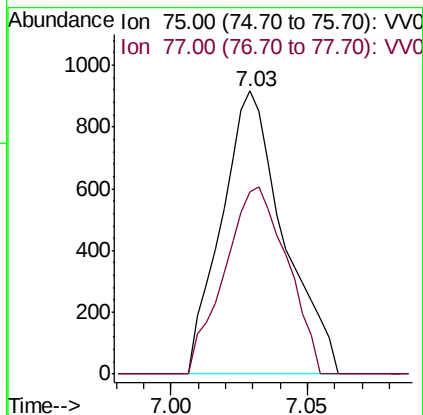
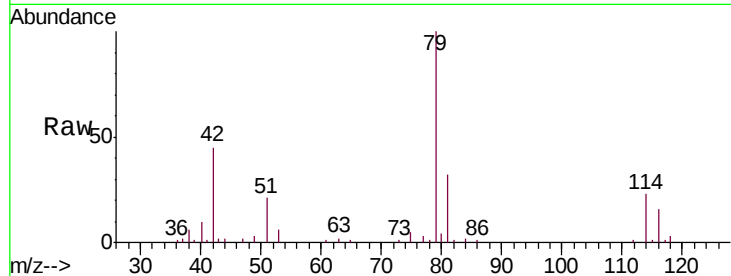


#42

cis-1,3-Dichloropropene
Concen: 2.038 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. -0.04 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

Instrument :
MSVOA_V
ClientSampleId :
C0JG7

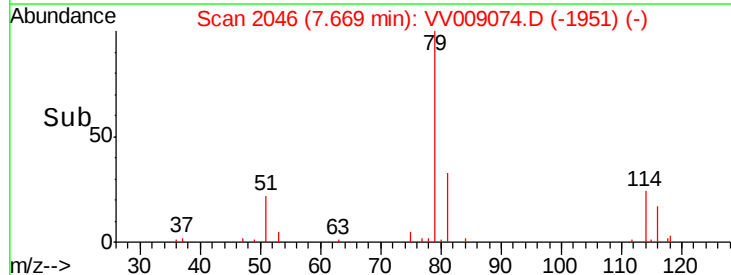
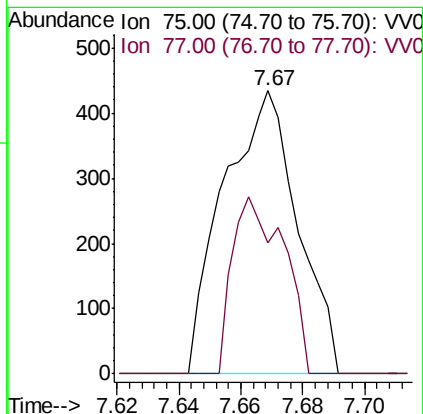
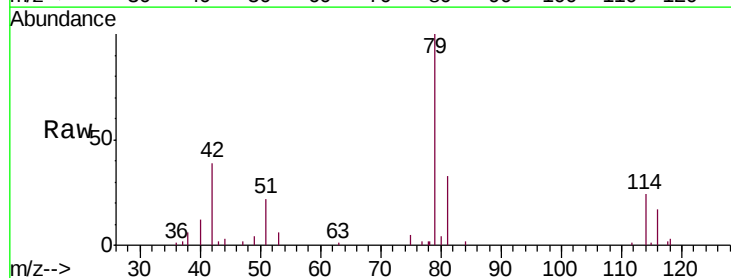
Tgt Ion: 75 Resp: 1453
Ion Ratio Lower Upper
75 100
77 64.6 21.3 39.6#

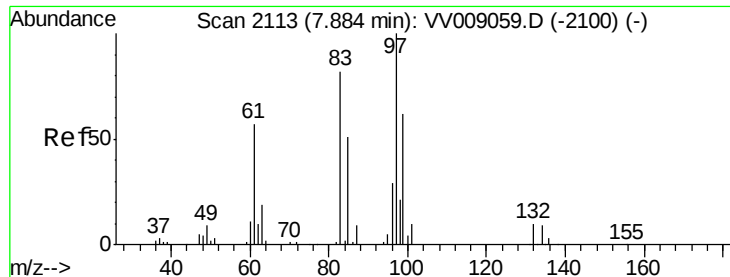


#45

trans-1,3-Dichloropropene
Concen: 1.162 ug/L
RT: 7.67 min Scan# 2046
Delta R.T. -0.03 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

Tgt Ion: 75 Resp: 722
Ion Ratio Lower Upper
75 100
77 46.3 23.6 43.8#

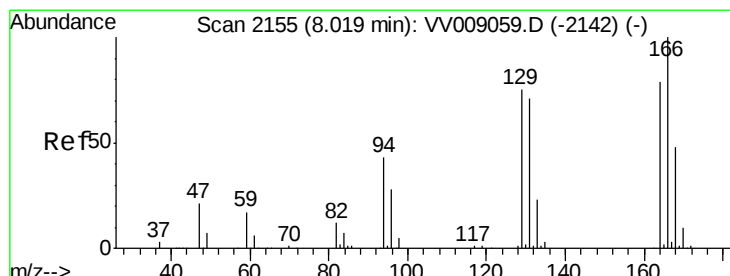
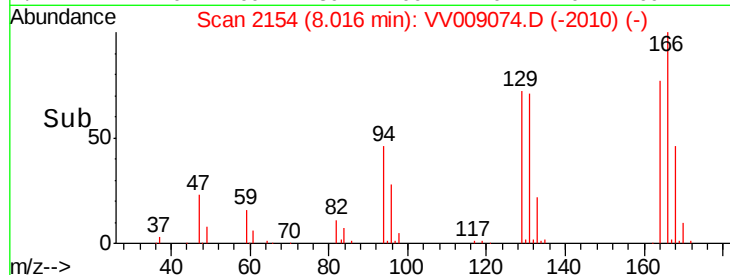
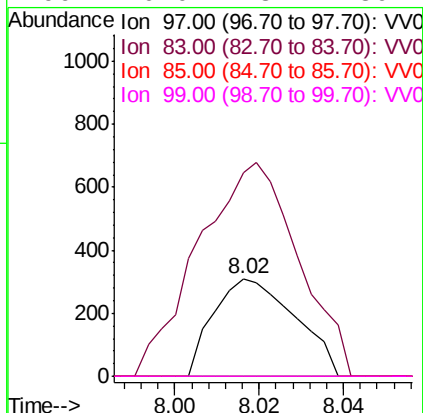
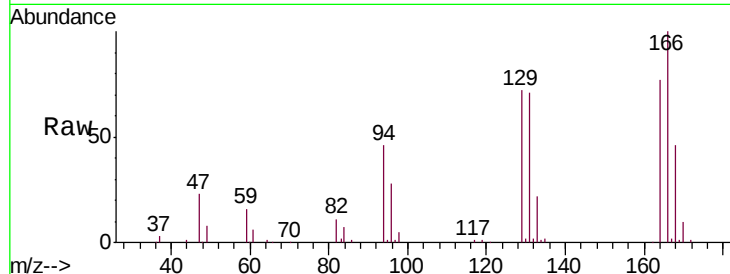




#46
 1,1,2-Trichloroethane
 Concen: 1.028 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.13 min
 Lab File: VV009074.D
 Acq: 20 Dec 2018 02:52

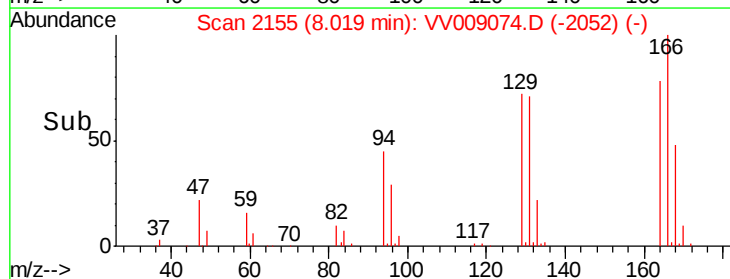
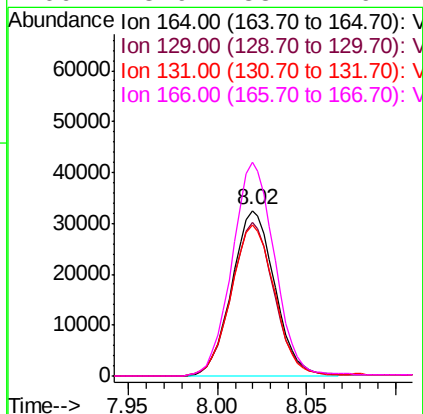
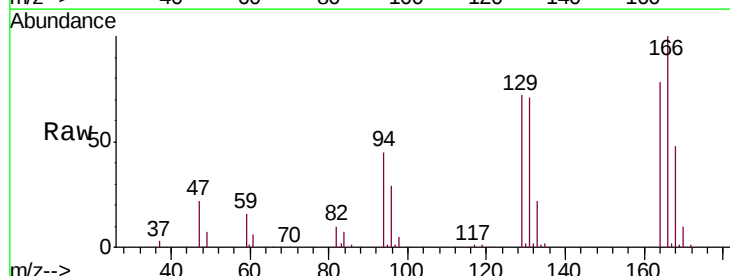
Instrument :
 MSVOA_V
 ClientSampleId :
 C0JG7

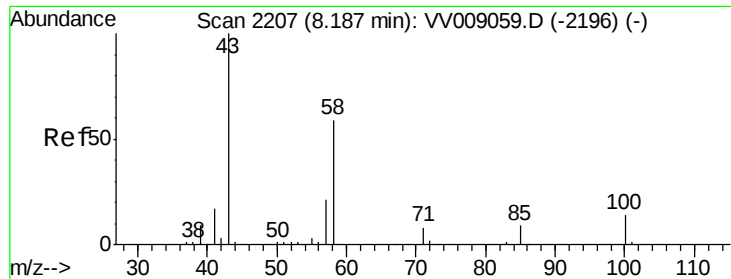
Tgt Ion: 97 Resp: 417
 Ion Ratio Lower Upper
 97 100
 83 209.0 56.6 105.2#
 85 0.0 36.6 68.0#
 99 0.0 43.2 80.2#



#47
 Tetrachloroethene
 Concen: 109.460 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV009074.D
 Acq: 20 Dec 2018 02:52

Tgt Ion: 164 Resp: 54451
 Ion Ratio Lower Upper
 164 100
 129 92.6 64.6 120.0
 131 91.0 64.5 119.7
 166 128.9 88.7 164.7

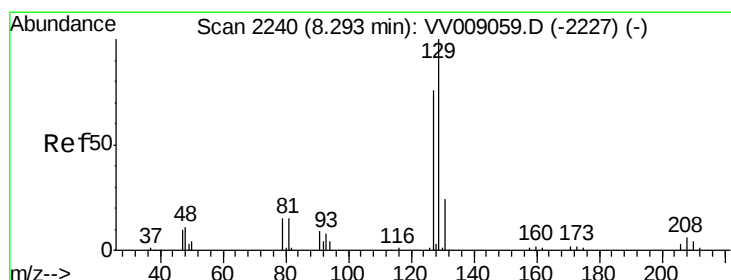
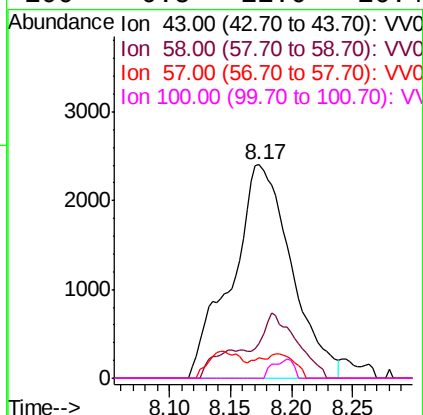
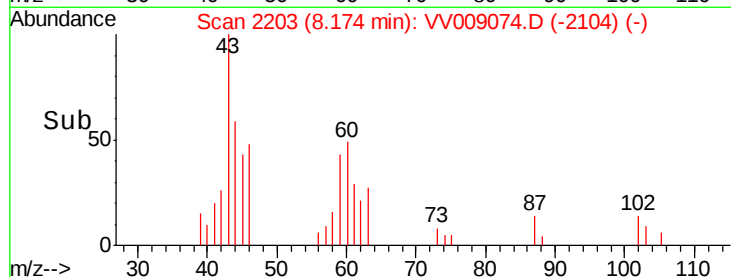
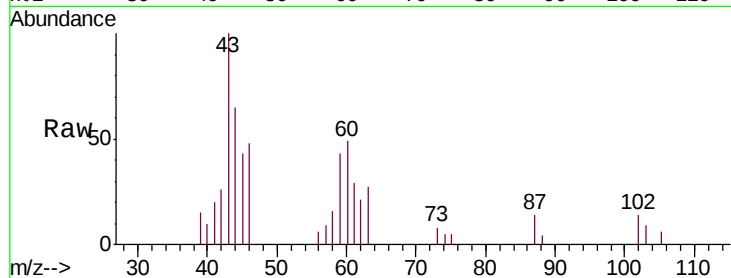




#49
2-Hexanone
Concen: 29.876 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. -0.01 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

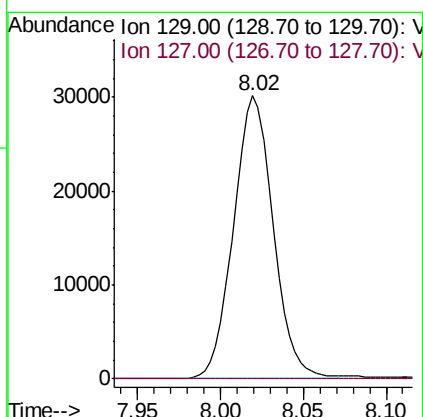
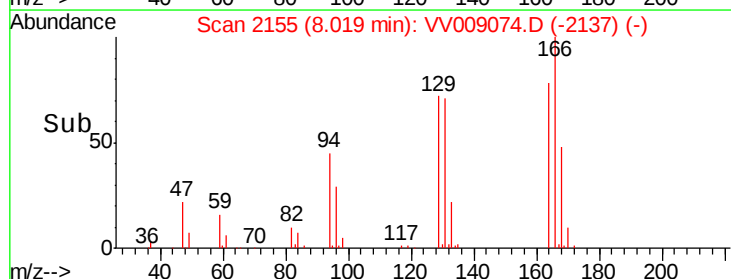
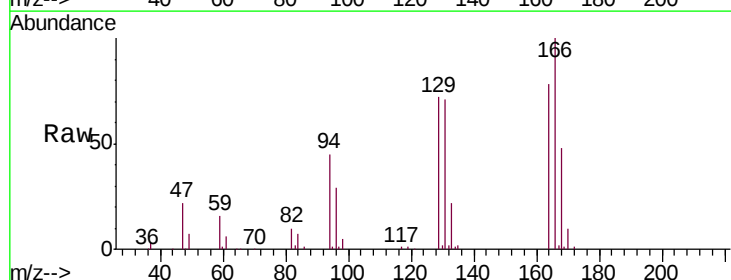
Instrument :
MSVOA_V
ClientSampled :
C0JG7

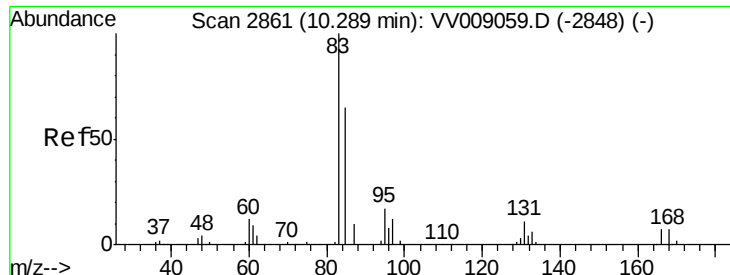
Tgt Ion: 43 Resp: 8135
Ion Ratio Lower Upper
43 100
58 18.3 43.9 65.9#
57 5.2 15.7 23.5#
100 0.5 11.0 16.4#



#50
Dibromochloromethane
Concen: 108.545 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.27 min
Lab File: VV009074.D
Acq: 20 Dec 2018 02:52

Tgt Ion: 129 Resp: 50483
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.3#





#58

1,1,2,2-Tetrachloroethane

Concen: 0.609 ug/L

RT: 10.27 min Scan# 2854

Delta R.T. -0.02 min

Lab File: VV009074.D

Acq: 20 Dec 2018 02:52

Instrument :

MSVOA_V

ClientSampleId :

C0JG7

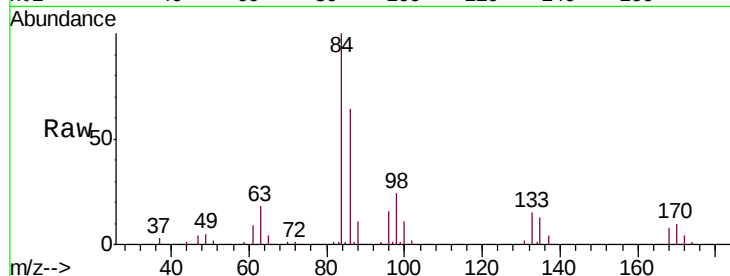
Tgt Ion: 83 Resp: 267

Ion Ratio Lower Upper

83 100

85 176.9 44.3 82.3#

131 231.6 7.8 11.8#

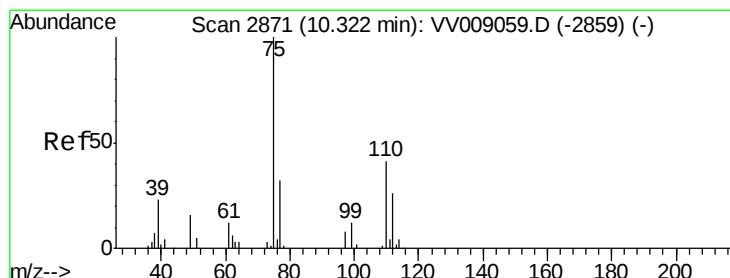
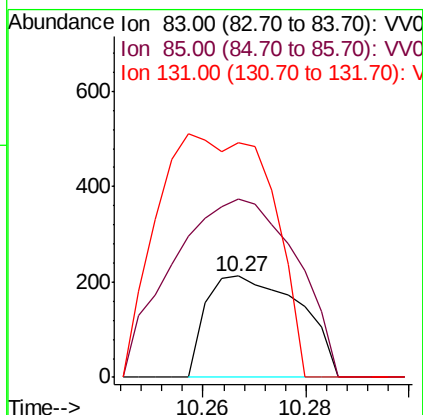
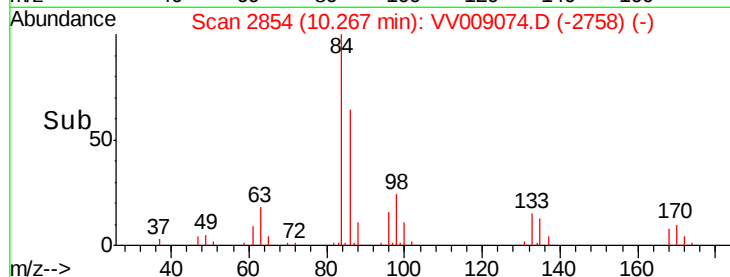


Abundance Ion 83.00 (82.70 to 83.70): VV009059.D (-2848) (-)

Ion 85.00 (84.70 to 85.70): VV009059.D (-2848) (-)

Ion 131.00 (130.70 to 131.70): VV009059.D (-2848) (-)

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.566 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.97 min

Lab File: VV009074.D

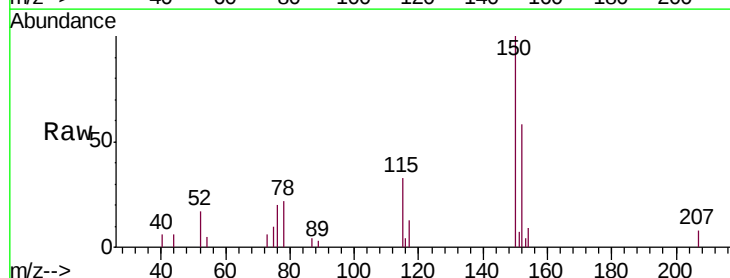
Acq: 20 Dec 2018 02:52

Tgt Ion: 75 Resp: 215

Ion Ratio Lower Upper

75 100

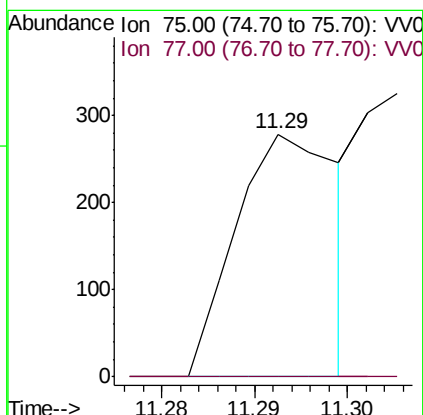
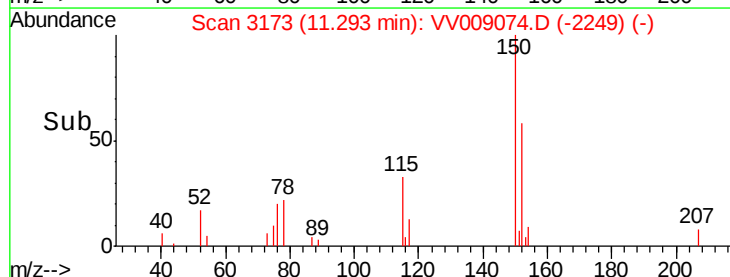
77 0.0 25.6 38.4#

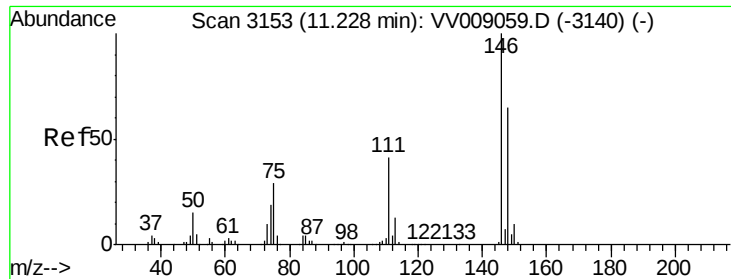


Abundance Ion 75.00 (74.70 to 75.70): VV009059.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009059.D (-2859) (-)

Time-->

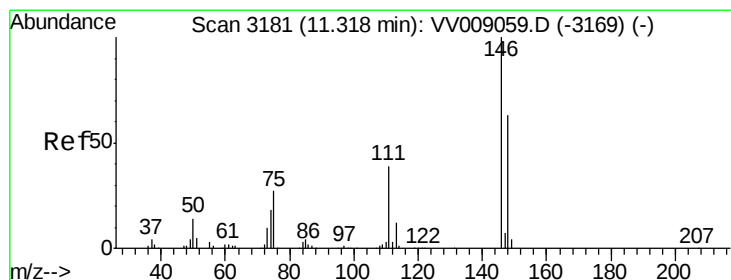
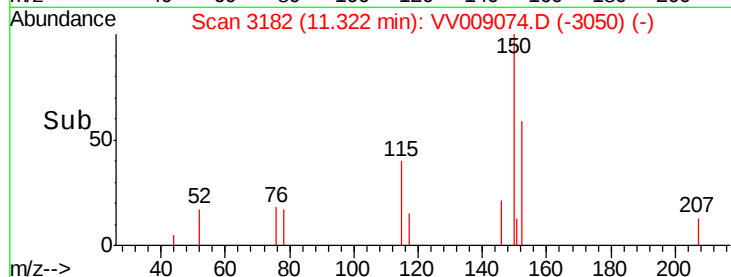
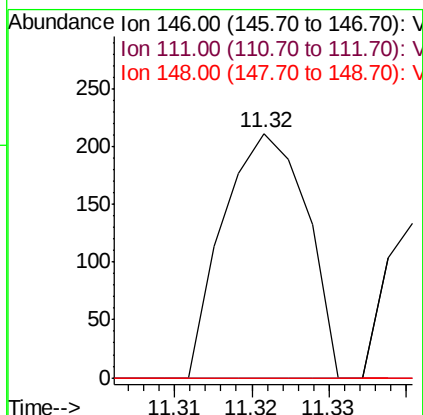
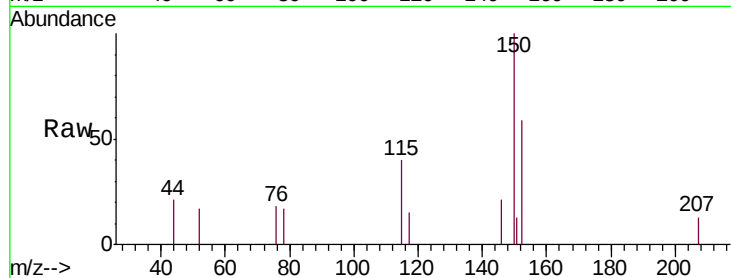




#63
 1,3-Dichlorobenzene
 Concen: 0.629 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.09 min
 Lab File: VV009074.D
 Acq: 20 Dec 2018 02:52

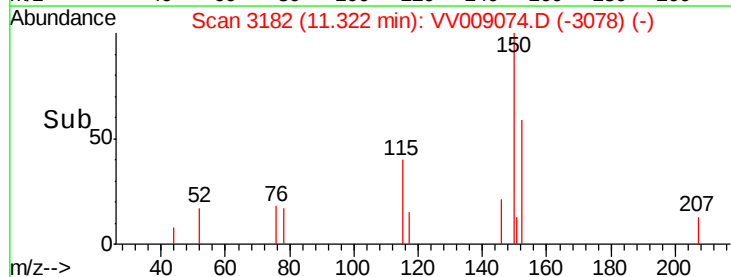
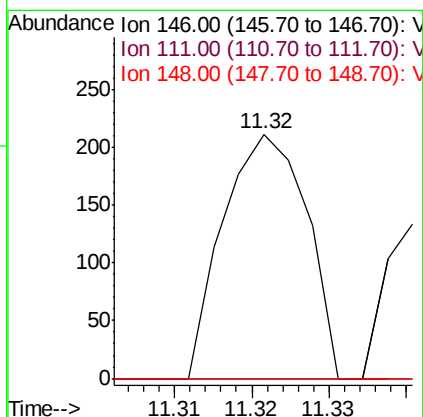
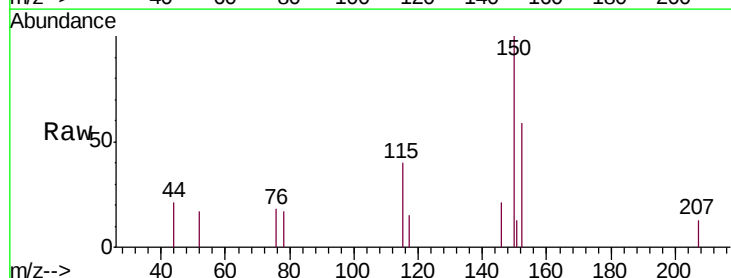
Instrument :
 MSVOA_V
 ClientSampled :
 C0JG7

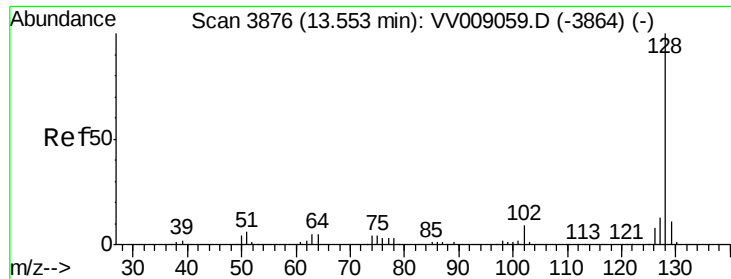
Tgt Ion:146 Resp: 159
 Ion Ratio Lower Upper
 146 100
 111 0.0 27.5 51.1#
 148 0.0 44.0 81.8#



#64
 1,4-Dichlorobenzene
 Concen: 0.611 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009074.D
 Acq: 20 Dec 2018 02:52

Tgt Ion:146 Resp: 159
 Ion Ratio Lower Upper
 146 100
 111 0.0 26.8 49.8#
 148 0.0 45.8 85.0#





#69

Naphthalene

Concen: 0.513 ug/L

RT: 13.57 min Scan# 3881

Delta R.T. 0.02 min

Lab File: VV009074.D

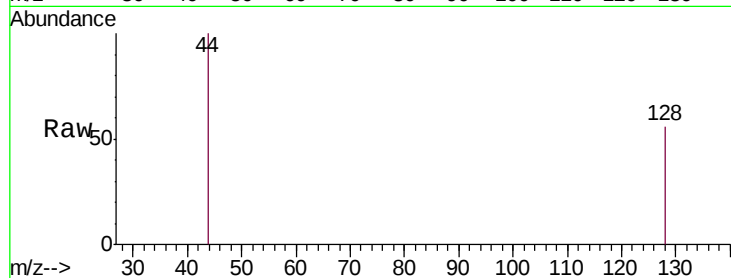
Acq: 20 Dec 2018 02:52

Instrument :

MSVOA_V

ClientSampleId :

C0JG7



Tgt Ion:	128	Resp:	113
Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.6	13.0#
127	0.0	10.0	15.0#

