

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041819\
 Data File : VV010365.D
 Acq On : 18 Apr 2019 22:39
 Operator : SY/MD
 Sample : K2402-04
 Misc : 4.99G/10mL/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GAHH6

Quant Time: Apr 19 06:13:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041819S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 19 06:08:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.68	114	3047	25.00	ug/L	0.01
28) Chlorobenzene-d5	8.90	117	4314	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	962	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	106	2.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	10.96%#
7) Chloroethane-d5	1.58	69	471	14.49	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	57.96%
10) 1,1-Dichloroethene-d2	2.13	63	141	1.51	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	6.04%#
20) 2-Butanone-d5	3.95	46	622	51.62	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.24%
24) Chloroform-d	4.41	84	2714	33.88	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	135.52%
26) 1,2-Dichloroethane-d4	5.09	65	1933	40.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	163.52%#
29) Benzene-d6	5.10	84	1548	7.01	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	28.04%
33) 1,2-Dichloropropane-d6	6.12	67	2377	36.78	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	147.12%#
37) Toluene-d8	7.36	98	2849	13.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	53.68%
38) trans-1,3-Dichloropropene-	7.68	79	119	3.74	ug/L	0.02
Spiked Amount	25.000	Range	30 - 135	Recovery	=	14.96%#
39) 2-Hexanone-d5	8.14	63	141	9.80	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	19.60%#
48) 1,1,2,2-Tetrachloroethane-	10.26	84	3721	57.57	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	230.28%#
61) 1,2-Dichlorobenzene-d4	11.68	152	928	24.54	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.16%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	319	7.942 ug/L #	41
5) Vinyl chloride	1.41	62	39	0.929 ug/L #	1
6) Bromomethane	1.54	94	220	8.197 ug/L	57
8) Chloroethane	1.63	64	55	2.057 ug/L	90
12) 1,1-Dichloroethene	2.14	96	50	1.263 ug/L #	1
13) Acetone	2.20	43	533	41.915 ug/L	71
15) Methyl Acetate	2.46	43	136	6.552 ug/L #	47
16) Methylene chloride	2.55	84	1341	27.554 ug/L	79
19) 1,1-Dichloroethane	3.08	63	54	0.842 ug/L #	49
21) 2-Butanone	3.95	43	116	8.415 ug/L #	49
35) Trichloroethene	5.67	95	129	2.071 ug/L #	3
36) Methylcyclohexane	6.14	83	148	1.632 ug/L #	42
40) 1,2-Dichloropropane	6.13	63	124	2.297 ug/L #	86
59) 1,2,3-Trichloropropane	9.74	75	47	1.032 ug/L #	1
69) Naphthalene	13.57	128	204	2.833 ug/L #	62

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Quant Title : VOC Analysis
QLast Update : Fri Apr 19 06:08:59 2019
Response via : Initial Calibration

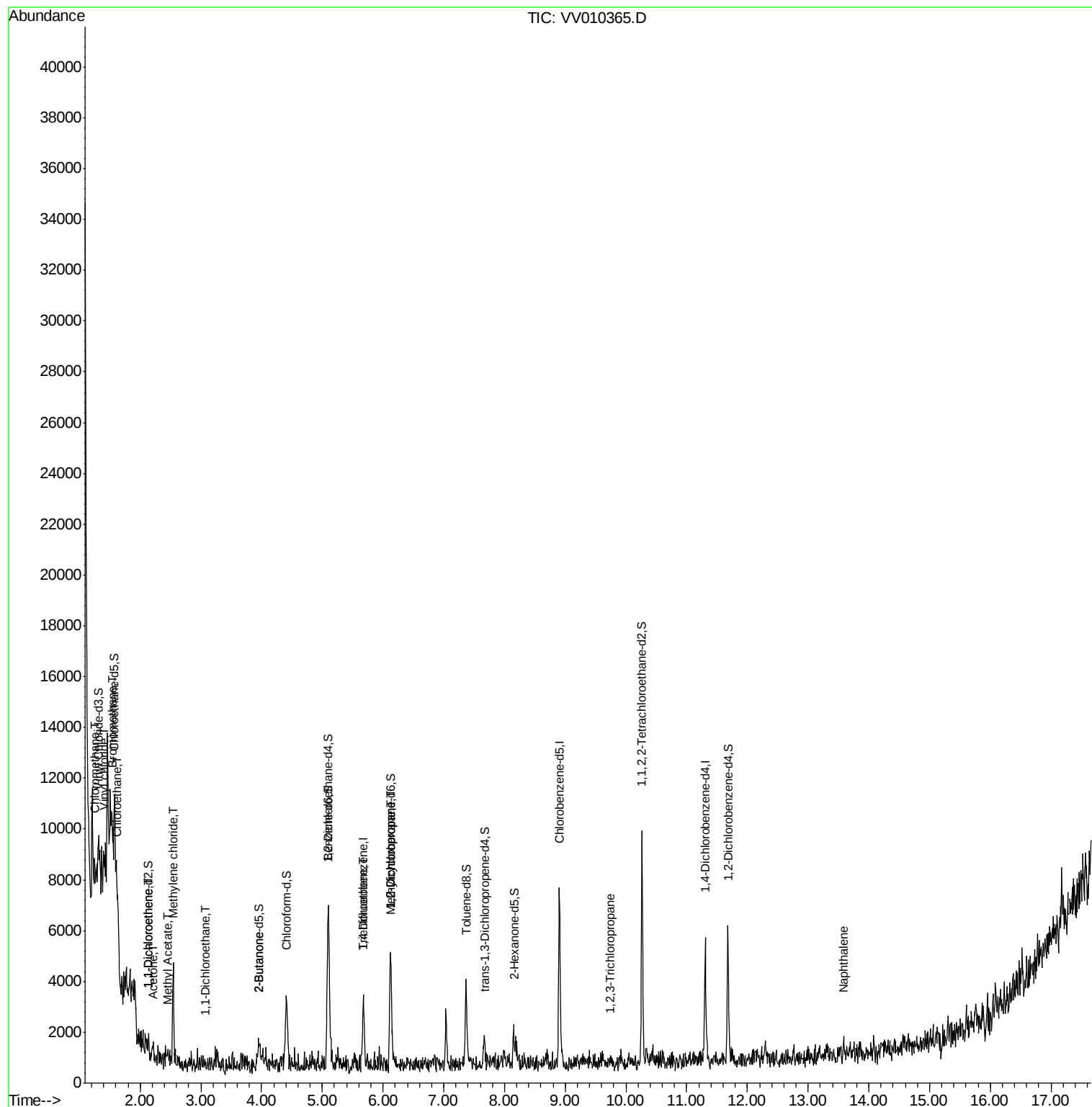
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

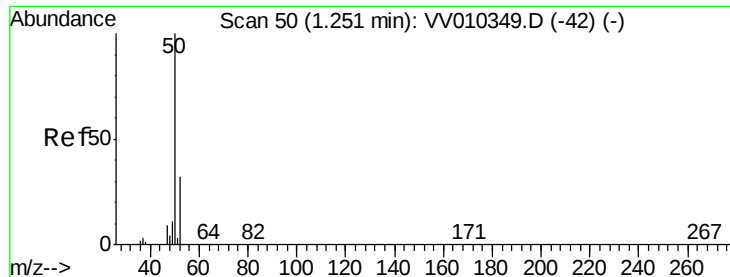
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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#3

Chloromethane

Concen: 7.942 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.01 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

Instrument :

MSVOA_V

ClientSampleId :

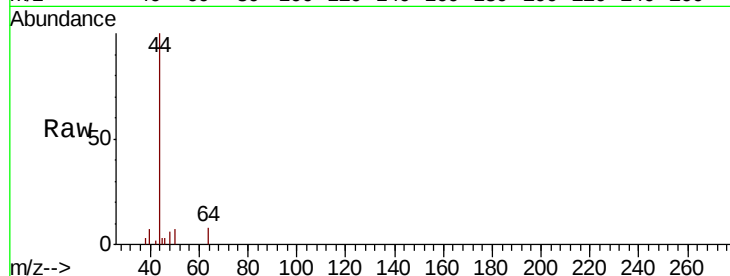
GAHH6

Tgt Ion: 50 Resp: 319

Ion Ratio Lower Upper

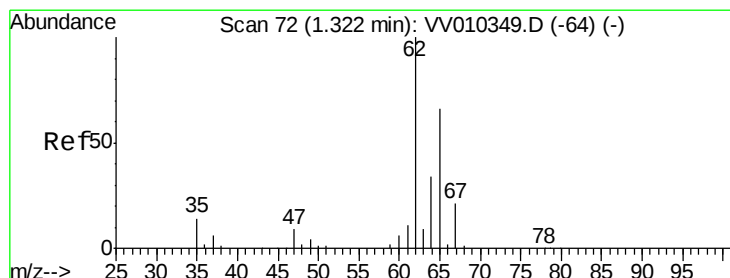
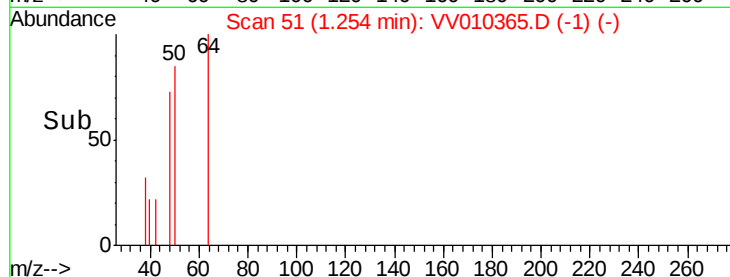
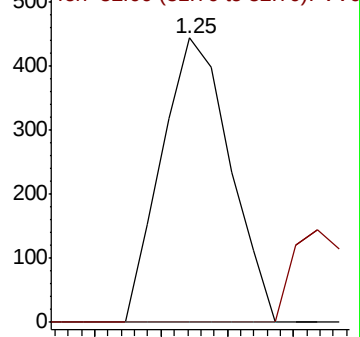
50 100

52 0.0 23.2 43.2#



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



#5

Vinyl chloride

Concen: 0.929 ug/L

RT: 1.41 min Scan# 100

Delta R.T. 0.09 min

Lab File: VV010365.D

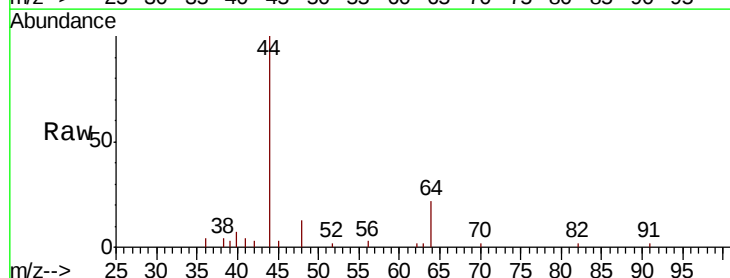
Acq: 18 Apr 2019 22:39

Tgt Ion: 62 Resp: 39

Ion Ratio Lower Upper

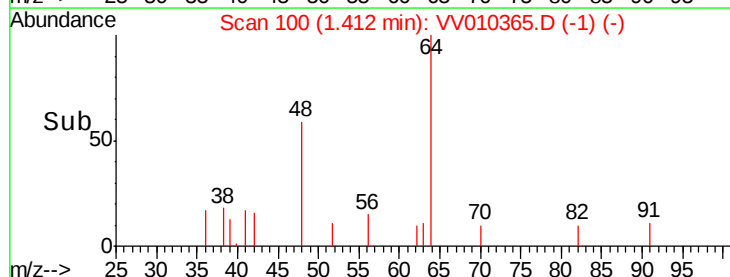
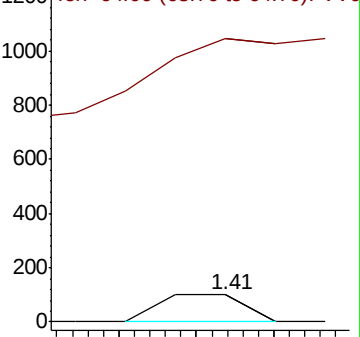
62 100

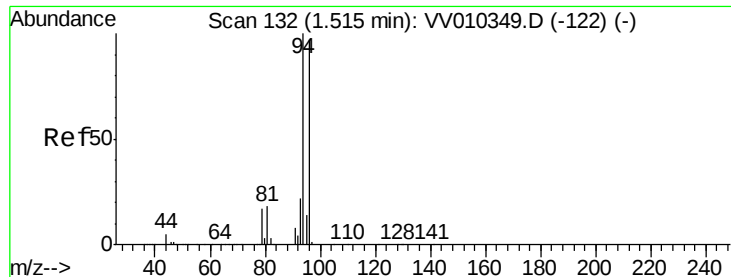
64 1034.7 23.9 44.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0





#6

Bromomethane

Concen: 8.197 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.02 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

Instrument :

MSVOA_V

ClientSampleId :

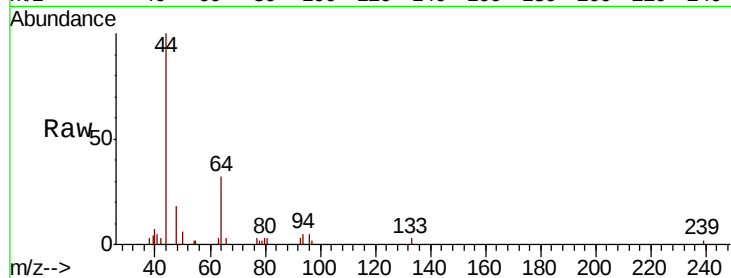
GAHH6

Tgt Ion: 94 Resp: 220

Ion Ratio Lower Upper

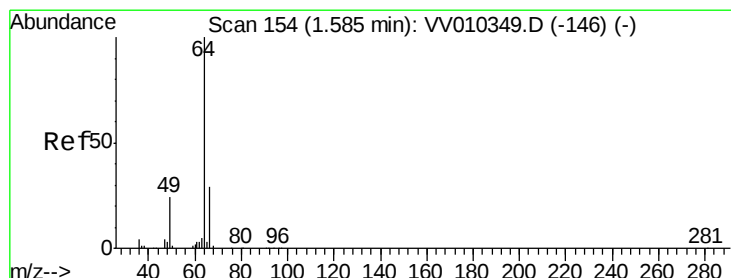
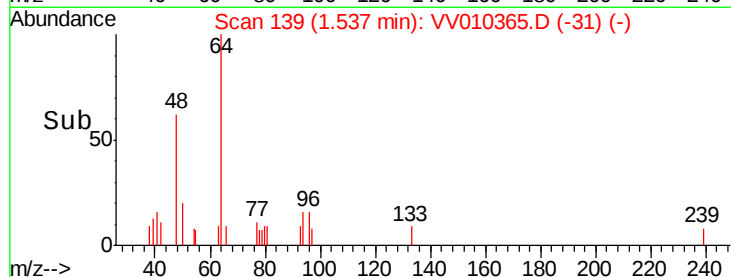
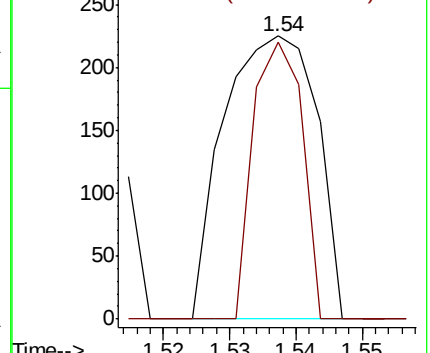
94 100

96 51.8 9.3 177.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



#8

Chloroethane

Concen: 2.057 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.04 min

Lab File: VV010365.D

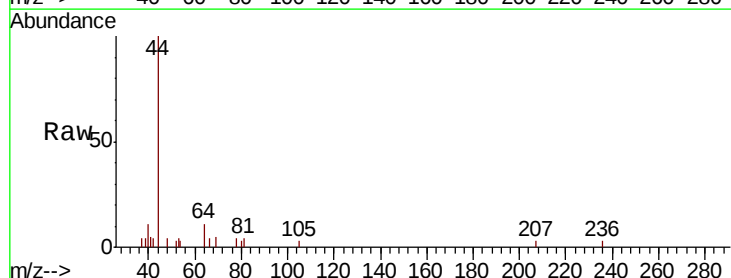
Acq: 18 Apr 2019 22:39

Tgt Ion: 64 Resp: 55

Ion Ratio Lower Upper

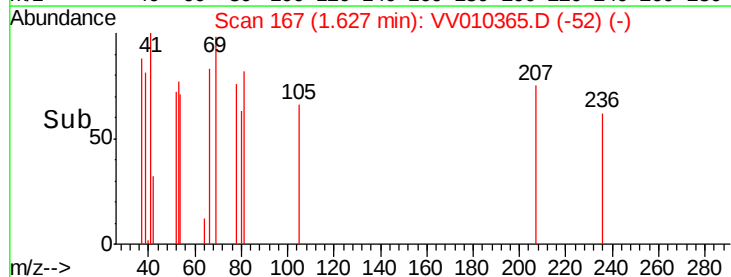
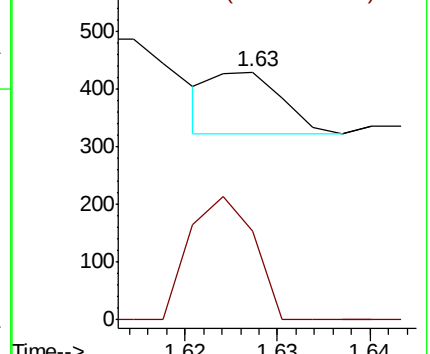
64 100

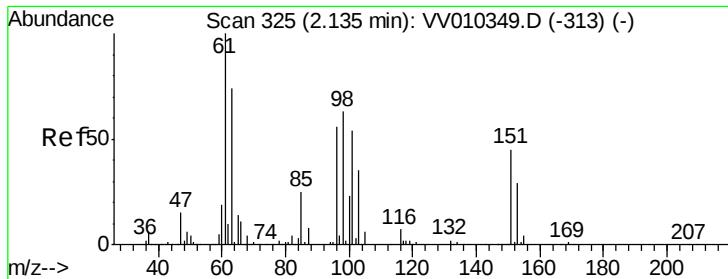
66 35.8 21.4 39.8



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0





#12

1,1-Dichloroethene

Concen: 1.263 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

Instrument :

MSVOA_V

ClientSampled :

GAHH6

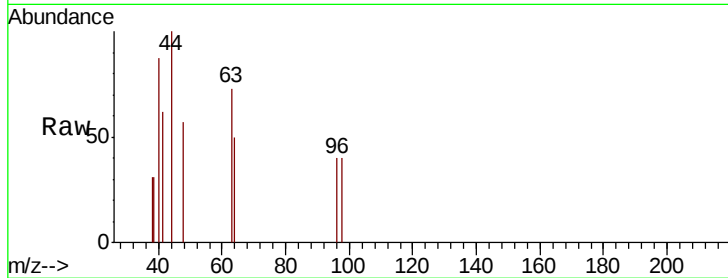
Tgt Ion: 96 Resp: 50

Ion Ratio Lower Upper

96 100

61 0.0 124.7 231.5#

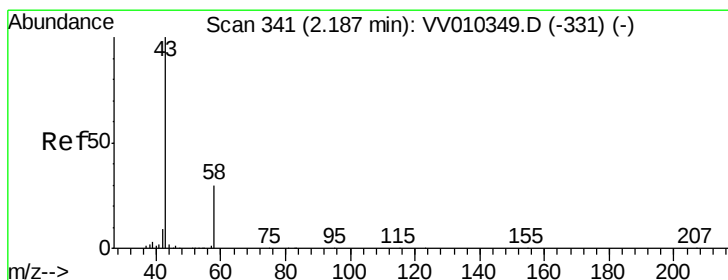
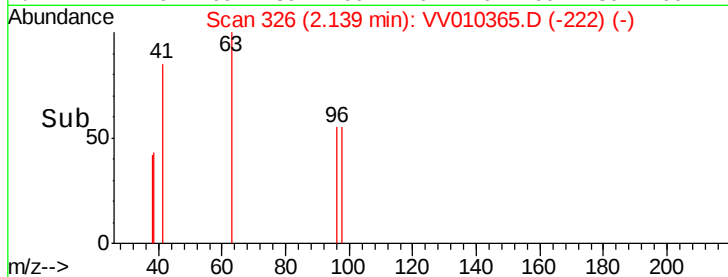
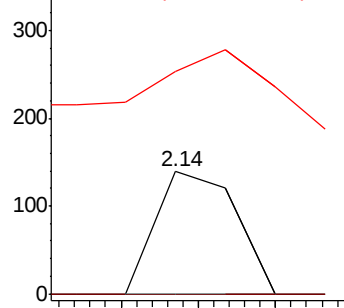
63 305.8 88.7 164.7#



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



#13

Acetone

Concen: 41.915 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.01 min

Lab File: VV010365.D

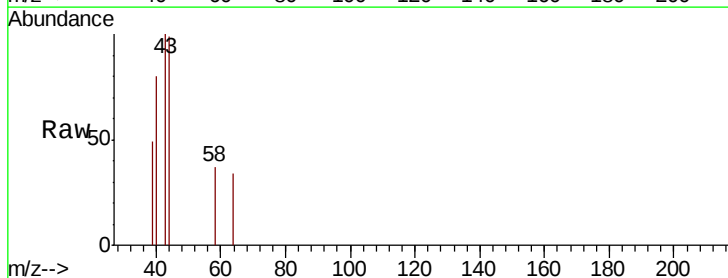
Acq: 18 Apr 2019 22:39

Tgt Ion: 43 Resp: 533

Ion Ratio Lower Upper

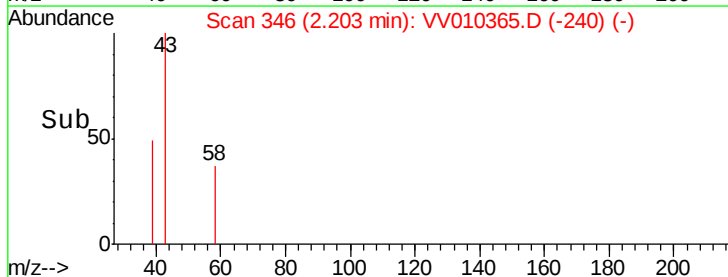
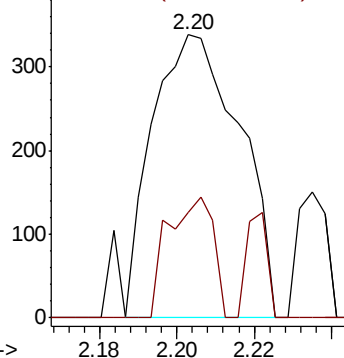
43 100

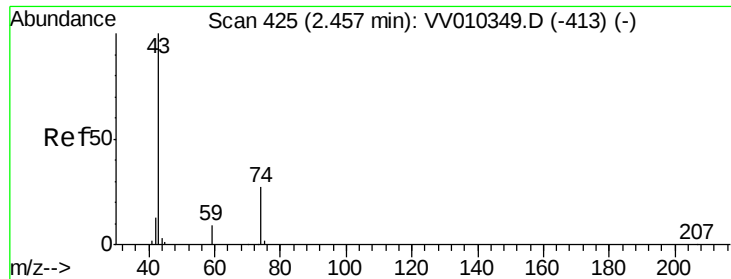
58 14.1 0.0 60.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#15

Methyl Acetate

Concen: 6.552 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

Instrument :

MSVOA_V

ClientSampleId :

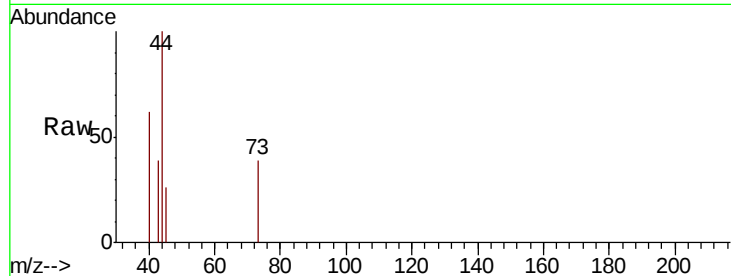
GAHH6

Tgt Ion: 43 Resp: 136

Ion Ratio Lower Upper

43 100

74 0.0 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.46

150

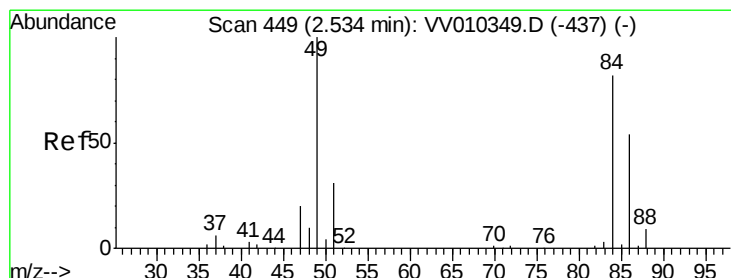
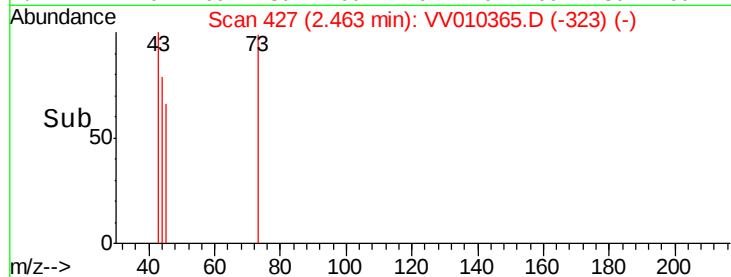
100

50

0

2.45 2.46 2.47 2.48

Time-->



#16

Methylene chloride

Concen: 27.554 ug/L

RT: 2.55 min Scan# 453

Delta R.T. 0.01 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

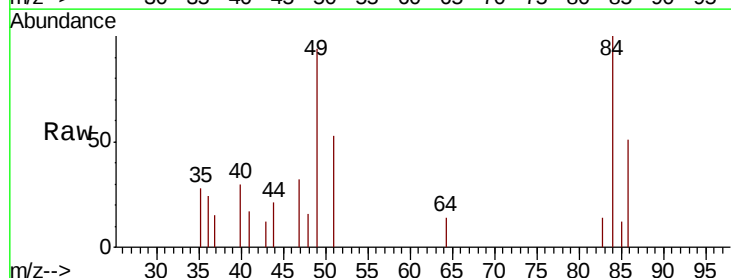
Tgt Ion: 84 Resp: 1341

Ion Ratio Lower Upper

84 100

49 94.0 83.8 155.6

86 51.3 46.1 85.5



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

1500

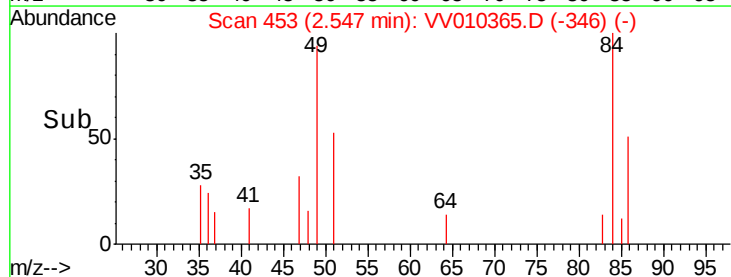
1000

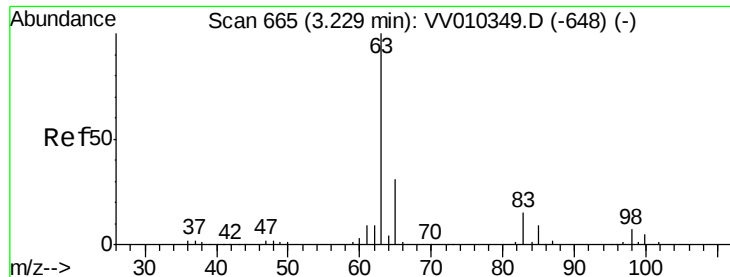
500

0

2.50 2.52 2.54 2.56 2.58

Time-->

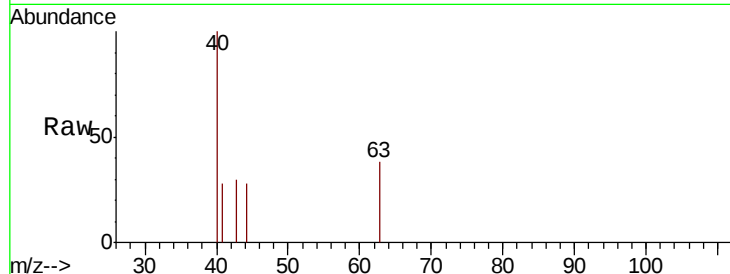




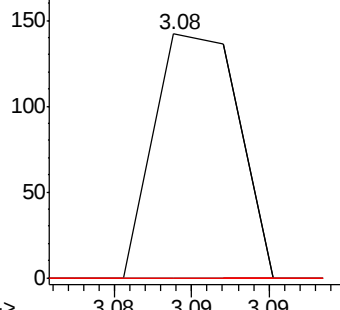
#19
 1,1-Dichloroethane
 Concen: 0.842 ug/L
 RT: 3.08 min Scan# 620
 Delta R.T. -0.14 min
 Lab File: VV010365.D
 Acq: 18 Apr 2019 22:39

Instrument :
 MSVOA_V
 ClientSampleId :
 GAHH6

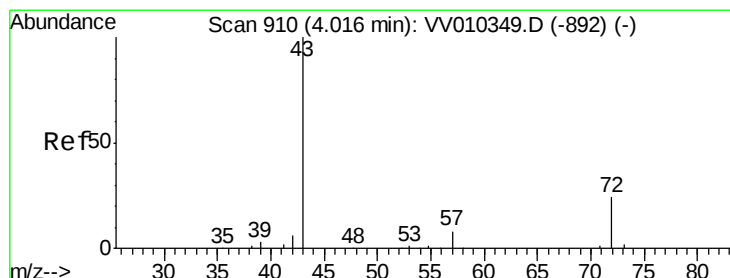
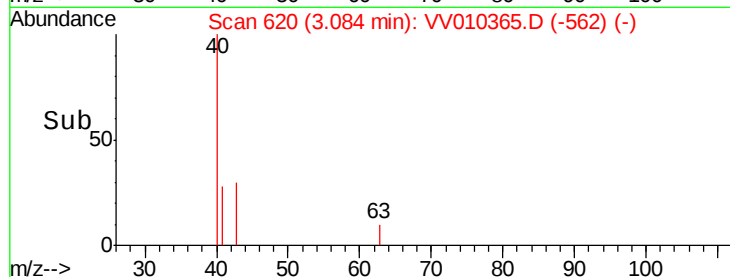
Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.0	42.8#
83	0.0	10.2	19.0#



Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

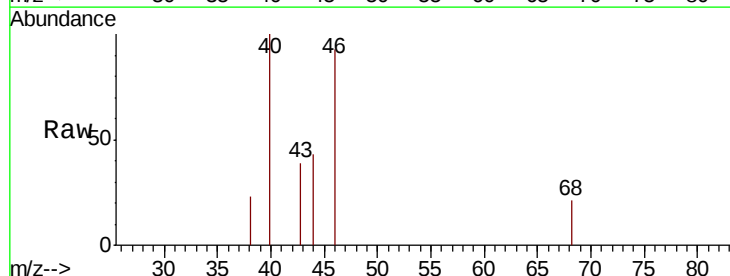


Time-->

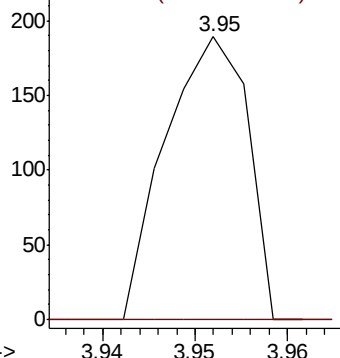


#21
 2-Butanone
 Concen: 8.415 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. -0.07 min
 Lab File: VV010365.D
 Acq: 18 Apr 2019 22:39

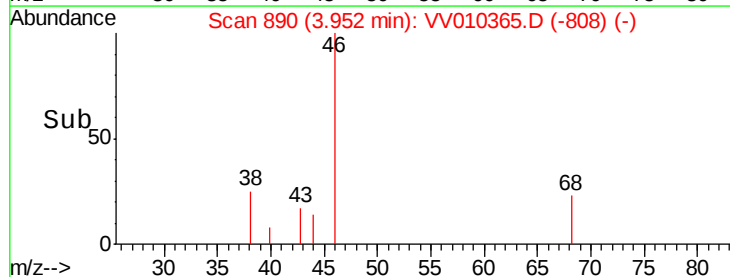
Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.1	39.1#

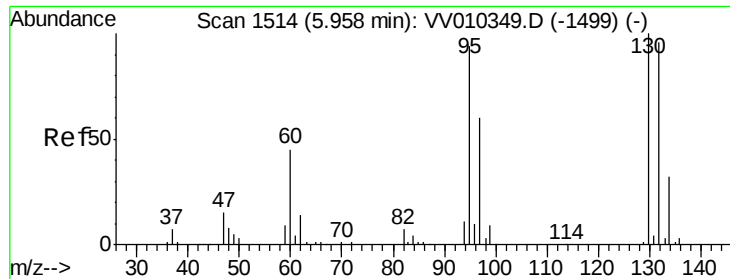


Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0



Time-->





#35

Trichloroethene

Concen: 2.071 ug/L

RT: 5.67 min Scan# 1424

Delta R.T. -0.29 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

Instrument :

MSVOA_V

ClientSampleId :

GAHH6

Tgt Ion: 95 Resp: 129

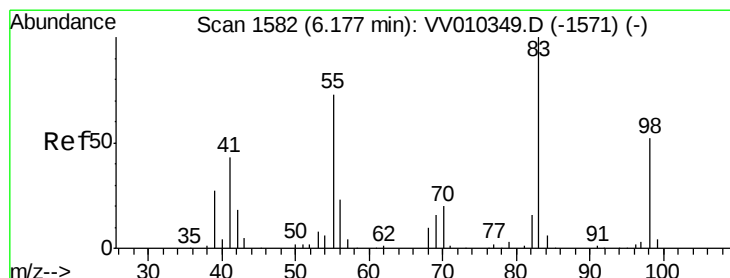
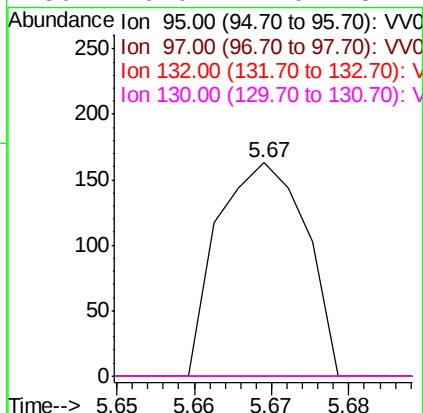
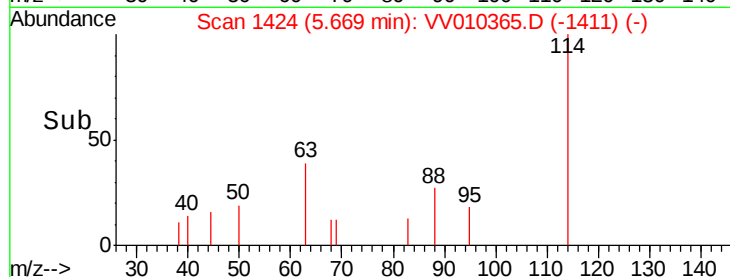
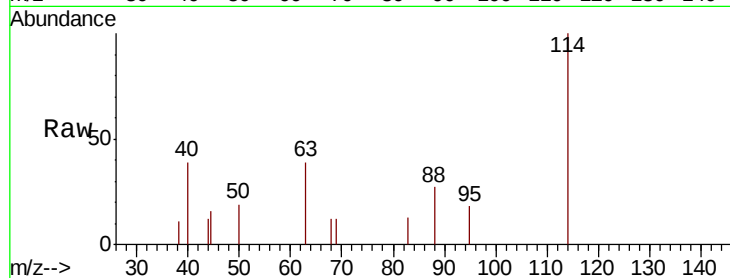
Ion Ratio Lower Upper

95 100

97 0.0 45.6 84.8#

132 0.0 71.5 132.7#

130 0.0 74.0 137.4#



#36

Methylcyclohexane

Concen: 1.632 ug/L

RT: 6.14 min Scan# 1570

Delta R.T. -0.04 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

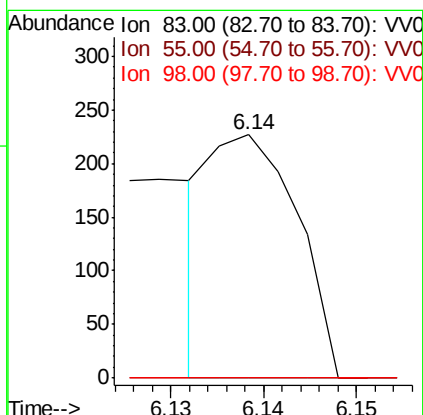
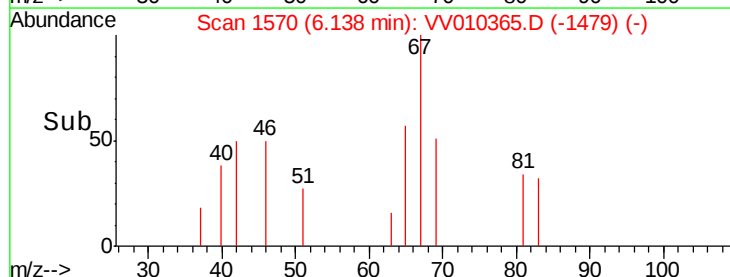
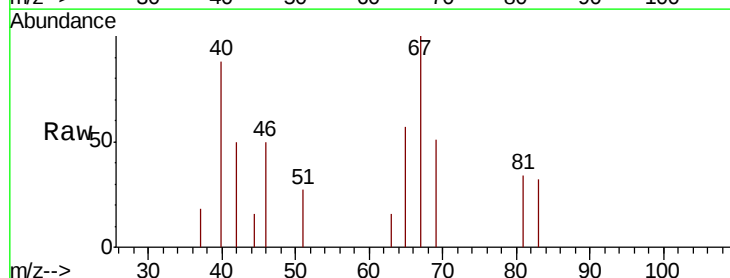
Tgt Ion: 83 Resp: 148

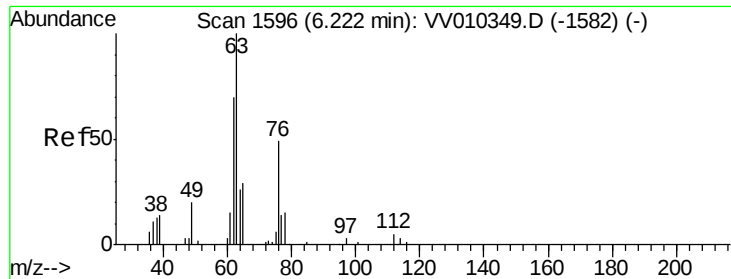
Ion Ratio Lower Upper

83 100

55 28.4 55.9 83.9#

98 0.0 37.3 55.9#





#40

1,2-Dichloropropane

Concen: 2.297 ug/L

RT: 6.13 min Scan# 1568

Delta R.T. -0.09 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

Instrument :

MSVOA_V

ClientSampled :

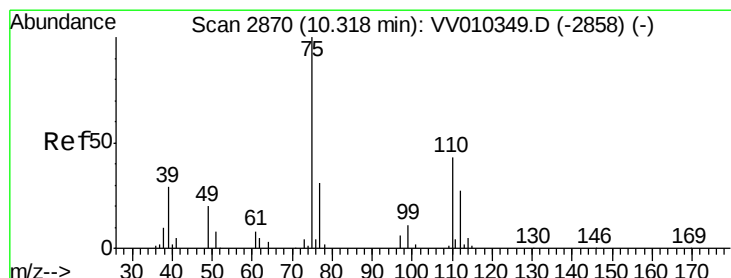
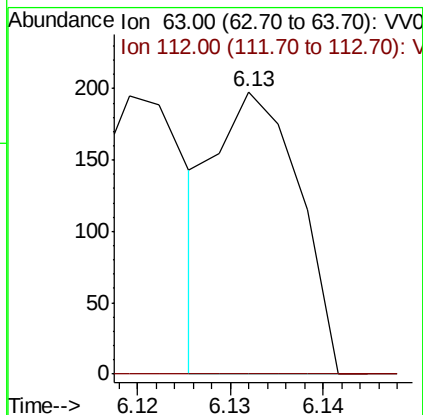
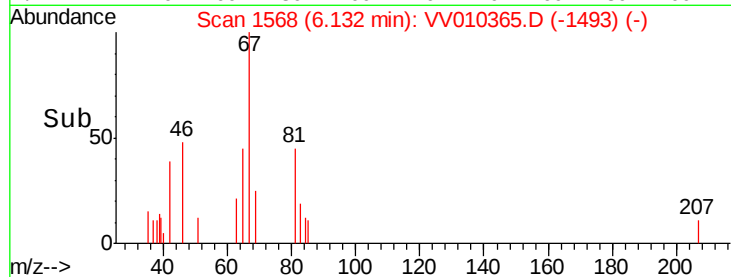
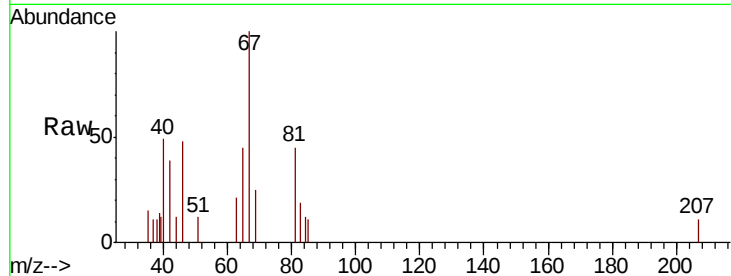
GAHH6

Tgt Ion: 63 Resp: 124

Ion Ratio Lower Upper

63 100

112 0.0 3.6 5.4#



#59

1,2,3-Trichloropropane

Concen: 1.032 ug/L

RT: 9.74 min Scan# 2689

Delta R.T. -0.58 min

Lab File: VV010365.D

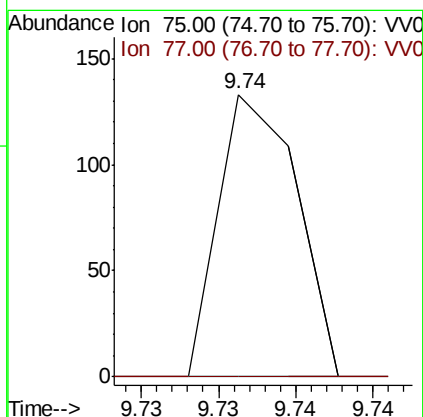
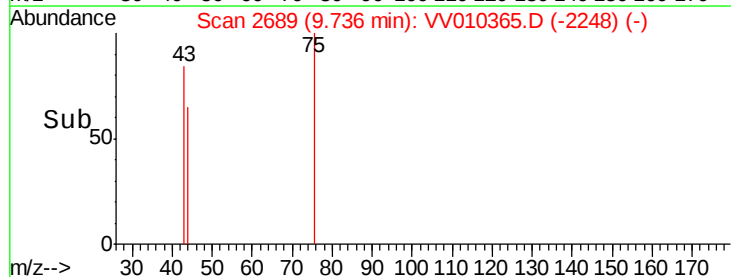
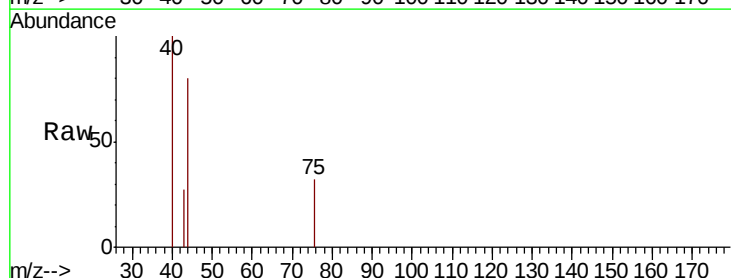
Acq: 18 Apr 2019 22:39

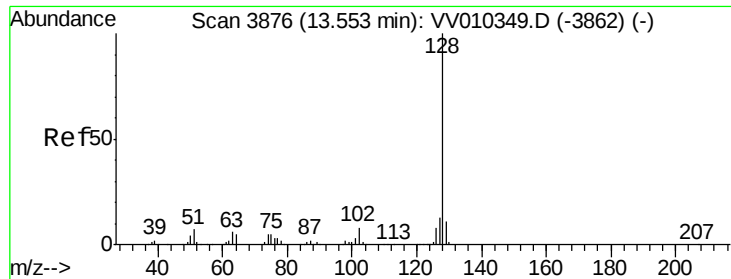
Tgt Ion: 75 Resp: 47

Ion Ratio Lower Upper

75 100

77 106.4 25.8 38.8#





#69

Naphthalene

Concen: 2.833 ug/L

RT: 13.57 min Scan# 3882

Delta R.T. 0.02 min

Lab File: VV010365.D

Acq: 18 Apr 2019 22:39

Instrument :

MSVOA_V

ClientSampleId :

GAHH6

Tgt Ion:128 Resp: 204

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 31.4 10.7 16.1#

