

Data File : VV009952.D
Acq On : 28 Mar 2019 02:58
Operator : SY/MD
Sample : K2101-15
Misc : 5.96G/10mL/MSVOA_V/SOIL
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BF0E6

Quant Time: Mar 28 07:22:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:17:22 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	169594	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	168147	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	66810	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	72993	21.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.84%
7) Chloroethane-d5	1.57	69	84197	22.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.60%
10) 1,1-Dichloroethene-d2	2.12	63	161784	17.19	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	68.76%
20) 2-Butanone-d5	3.93	46	25903	40.39	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	80.78%
24) Chloroform-d	4.40	84	90212	20.88	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	83.52%
26) 1,2-Dichloroethane-d4	5.08	65	59695	22.96	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.84%
29) Benzene-d6	5.10	84	213404	24.17	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.68%
33) 1,2-Dichloropropane-d6	6.12	67	65783	25.46	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.84%
37) Toluene-d8	7.36	98	188733	22.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.32%
38) trans-1,3-Dichloropropene-	7.66	79	19988	18.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	75.64%
39) 2-Hexanone-d5	8.13	63	17574	36.44	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	72.88%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	48556	18.98	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	75.92%
61) 1,2-Dichlorobenzene-d4	11.67	152	59035	23.21	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.84%

Target Compounds

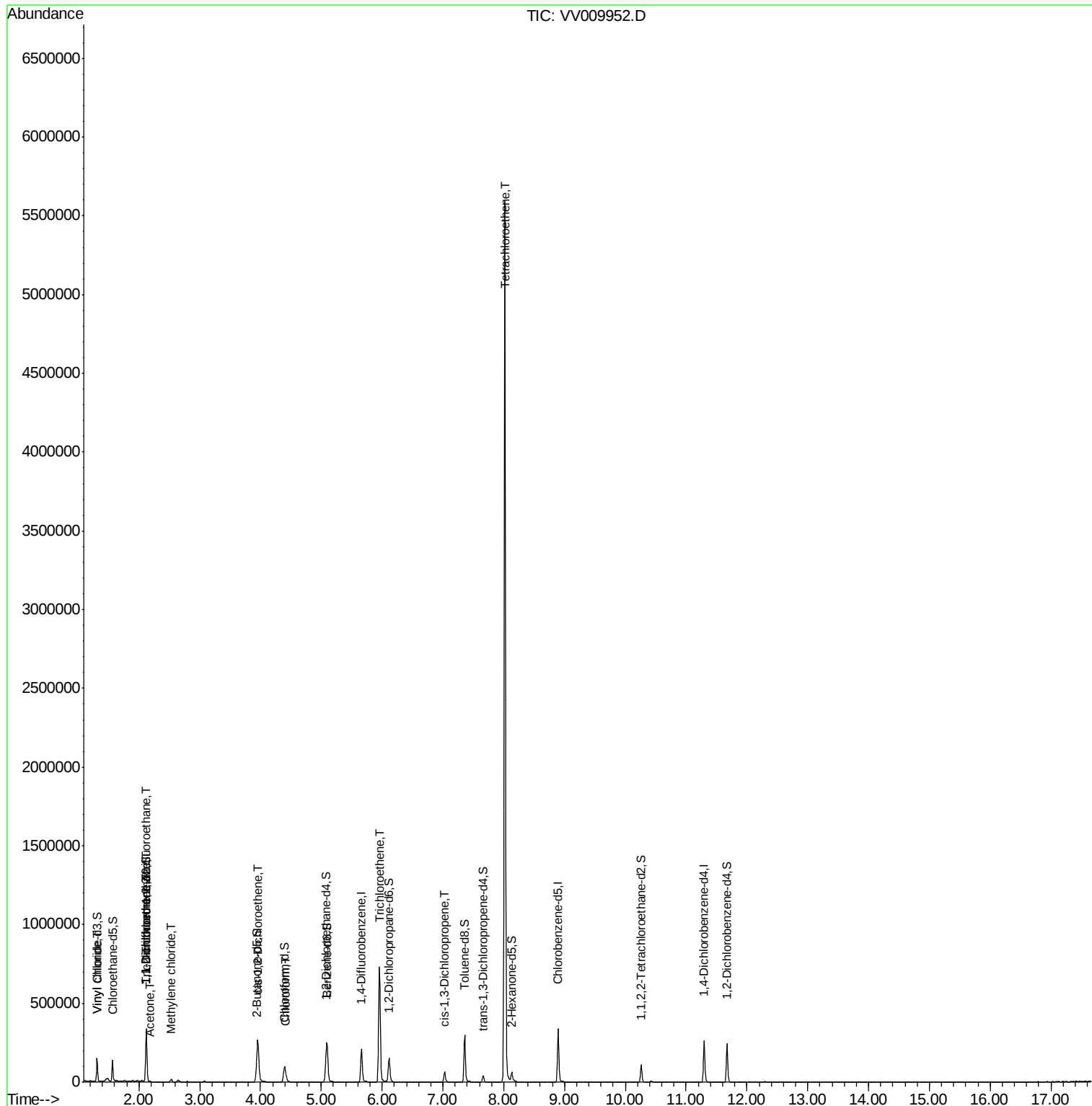
					Qvalue
5) Vinyl chloride	1.32	62	5900	1.495 ug/L #	70
9) Trichlorofluoromethane	2.13	101	4177	0.496 ug/L	79
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4177	0.854 ug/L #	72
12) 1,1-Dichloroethene	2.13	96	5812	1.401 ug/L #	1
13) Acetone	2.19	43	1173	1.208 ug/L	68
16) Methylene chloride	2.53	84	6879	2.463 ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	141509	57.673 ug/L	95
25) Chloroform	4.42	83	17158	3.819 ug/L	95
35) Trichloroethene	5.96	95	230639	94.696 ug/L	98
42) cis-1,3-Dichloropropene	7.03	75	2480	0.737 ug/L #	74
47) Tetrachloroethene	8.02	164	996886	518.690 ug/L	94

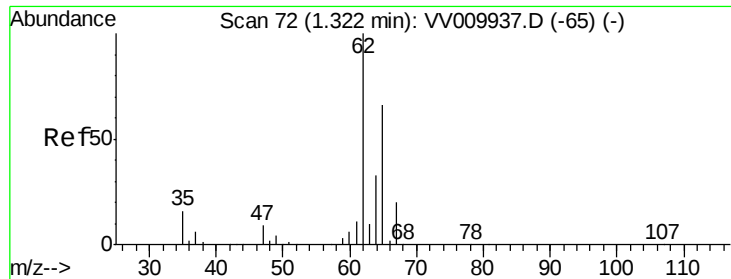
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.495 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009952.D

Acq: 28 Mar 2019 02:58

Instrument :

MSVOA_V

ClientSampleId :

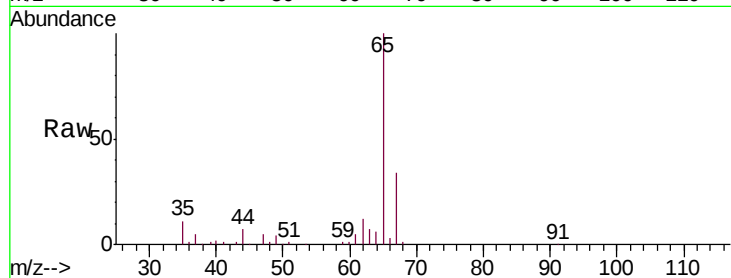
BF0E6

Tgt Ion: 62 Resp: 5900

Ion Ratio Lower Upper

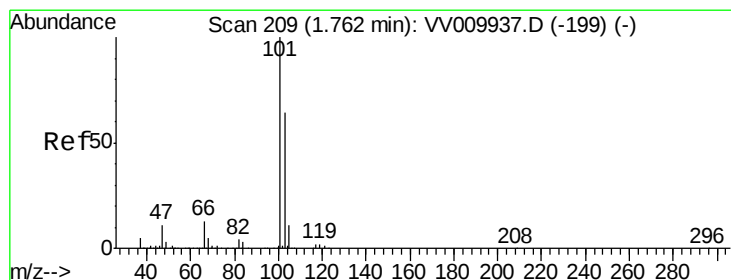
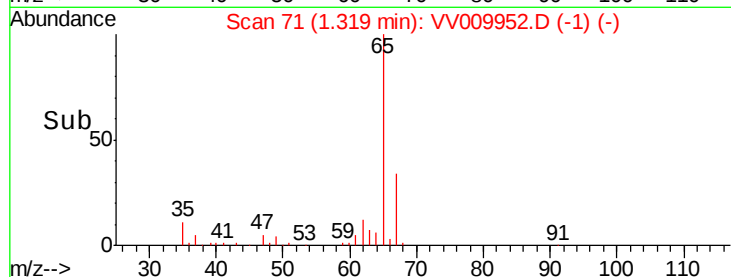
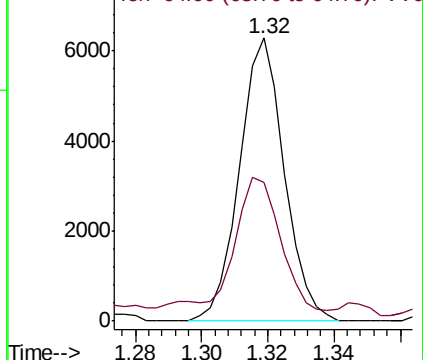
62 100

64 49.2 22.8 42.4#



Abundance Ion 62.00 (61.70 to 62.70): VV009937.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009937.D (-65) (-)



#9

Trichlorofluoromethane

Concen: 0.496 ug/L

RT: 2.13 min Scan# 322

Delta R.T. 0.36 min

Lab File: VV009952.D

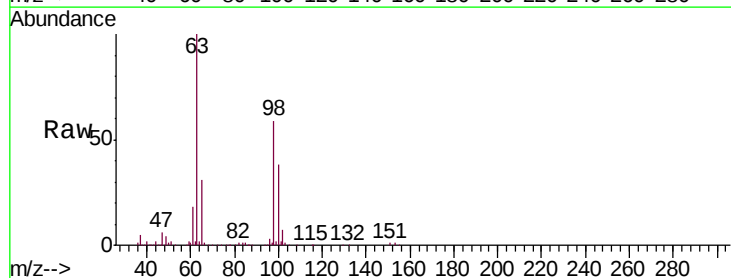
Acq: 28 Mar 2019 02:58

Tgt Ion: 101 Resp: 4177

Ion Ratio Lower Upper

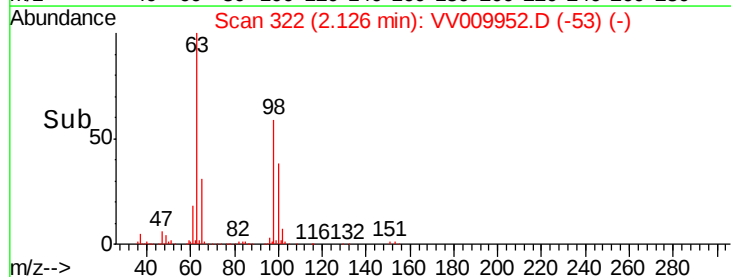
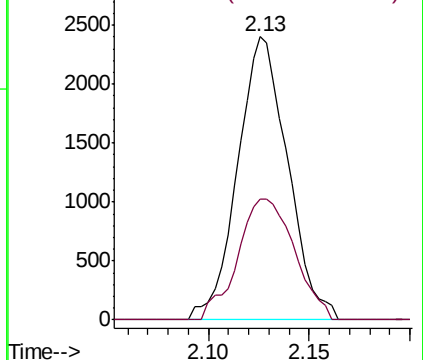
101 100

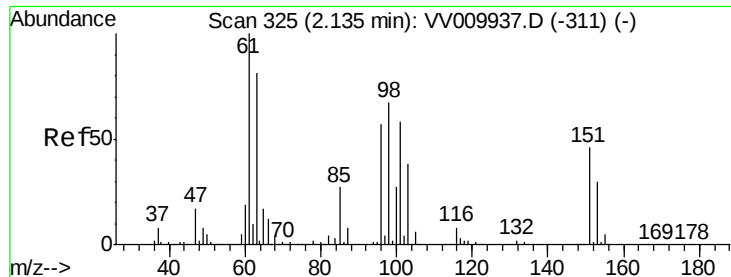
103 48.1 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV009937.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009937.D (-199) (-)





#11

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

Concen: 0.854 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV009952.D

Acq: 28 Mar 2019 02:58

Instrument :

MSVOA_V

ClientSampleId :

BF0E6

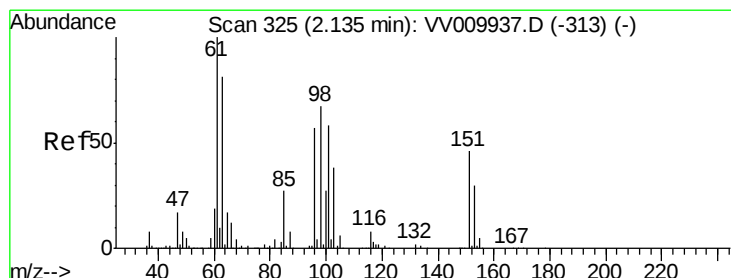
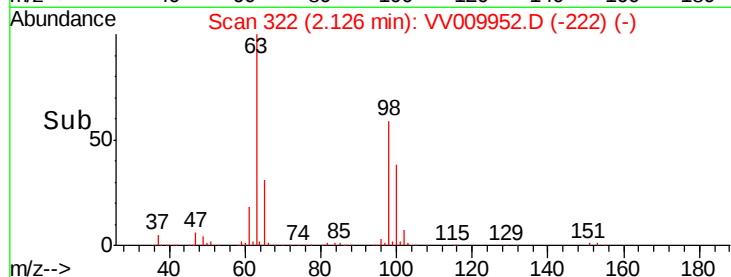
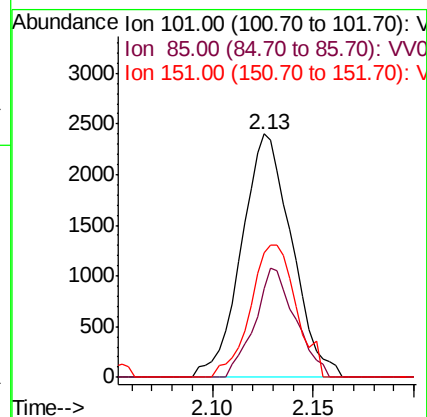
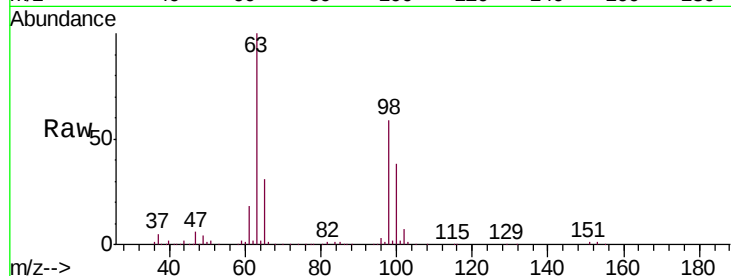
Tgt Ion: 101 Resp: 4177

Ion Ratio Lower Upper

101 100

85 36.2 36.9 55.3#

151 47.9 63.6 95.4#



#12

1,1-Dichloroethene

Concen: 1.401 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009952.D

Acq: 28 Mar 2019 02:58

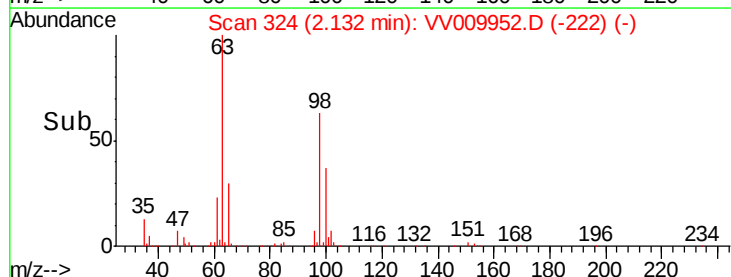
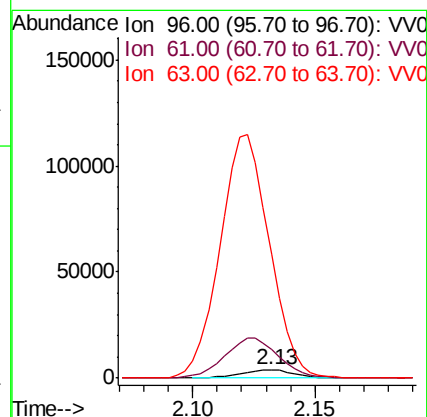
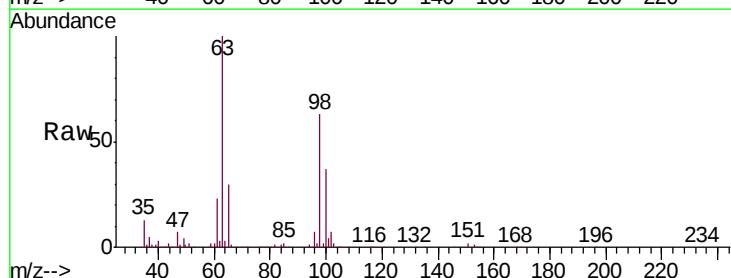
Tgt Ion: 96 Resp: 5812

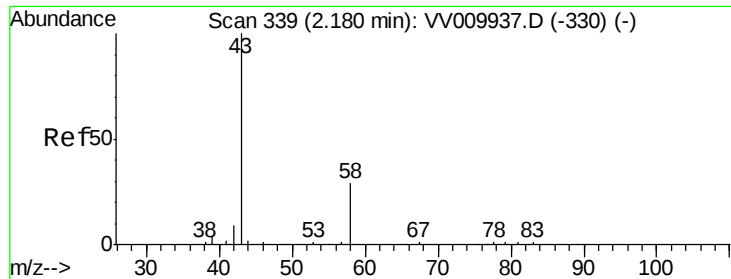
Ion Ratio Lower Upper

96 100

61 332.5 124.3 230.8#

63 1447.2 88.2 163.8#





#13

Acetone

Concen: 1.208 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VV009952.D

Acq: 28 Mar 2019 02:58

Instrument :

MSVOA_V

ClientSampled :

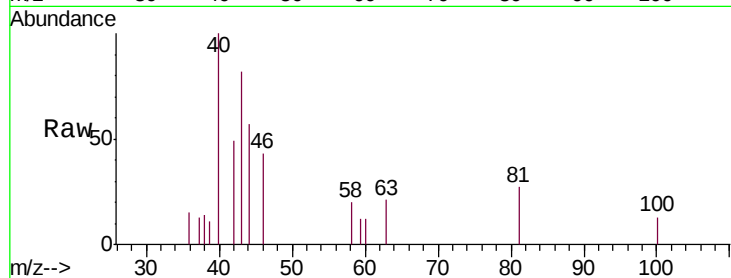
BF0E6

Tgt Ion: 43 Resp: 1173

Ion Ratio Lower Upper

43 100

58 12.7 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV009937.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV009937.D (-330) (-)

2.19

800

600

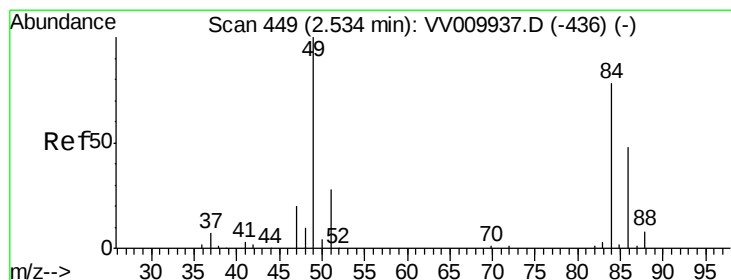
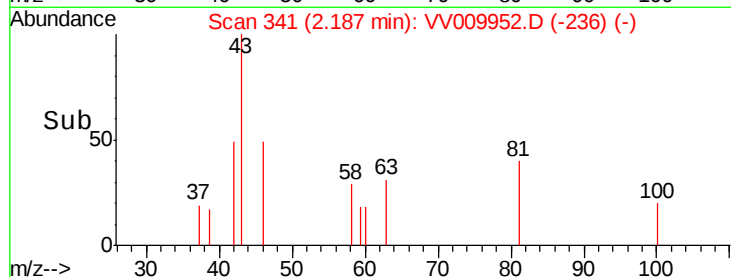
400

200

0

Time-->

2.16 2.18 2.20 2.22



#16

Methylene chloride

Concen: 2.463 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV009952.D

Acq: 28 Mar 2019 02:58

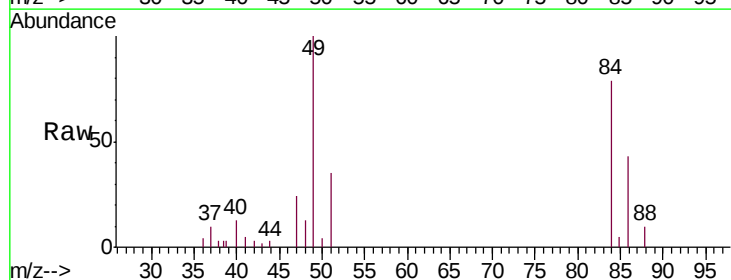
Tgt Ion: 84 Resp: 6879

Ion Ratio Lower Upper

84 100

49 126.6 90.4 167.8

86 54.6 44.0 81.6



Abundance Ion 84.00 (83.70 to 84.70): VV009937.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV009937.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV009937.D (-436) (-)

6000

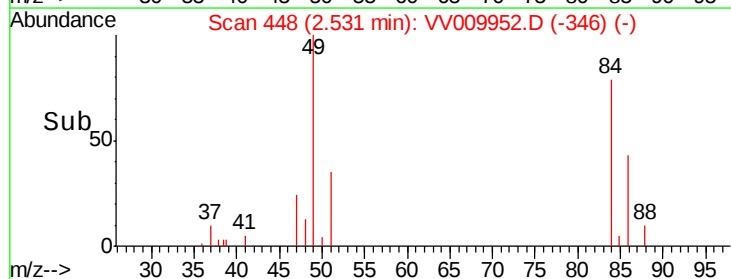
4000

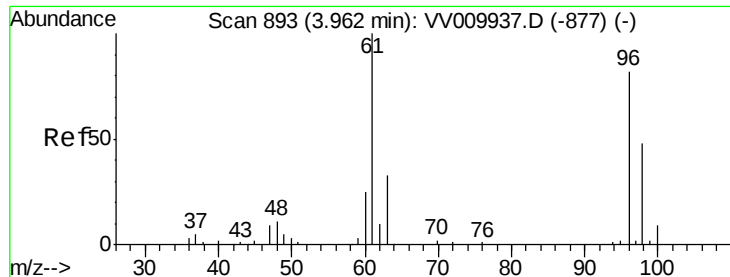
2000

0

Time-->

2.50 2.55 2.60



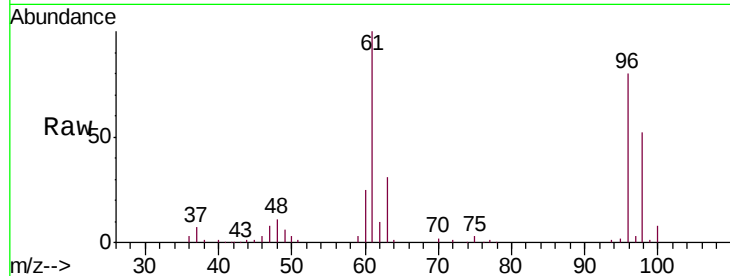


#22

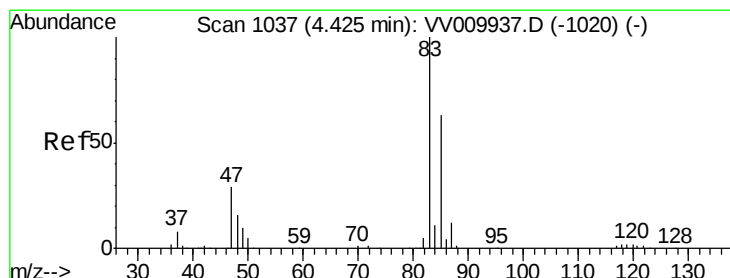
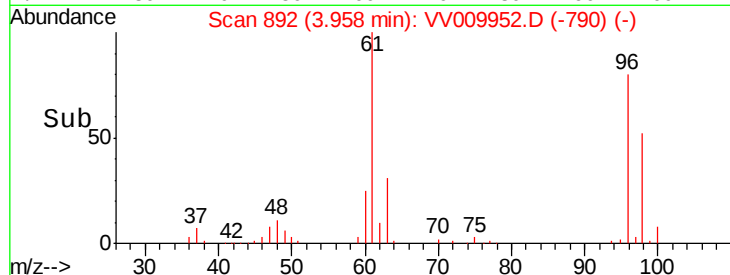
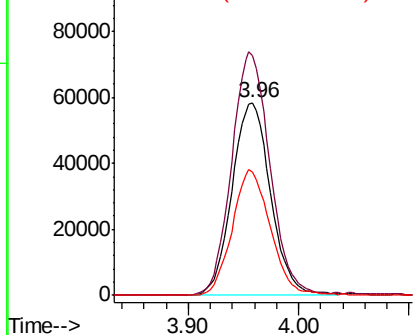
cis-1,2-Dichloroethene
Concen: 57.673 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV009952.D
Acq: 28 Mar 2019 02:58

Instrument :
MSVOA_V
ClientSampleId :
BF0E6

Tgt Ion: 96 Resp: 141509
Ion Ratio Lower Upper
96 100
61 124.4 91.4 169.8
98 64.2 48.0 89.2



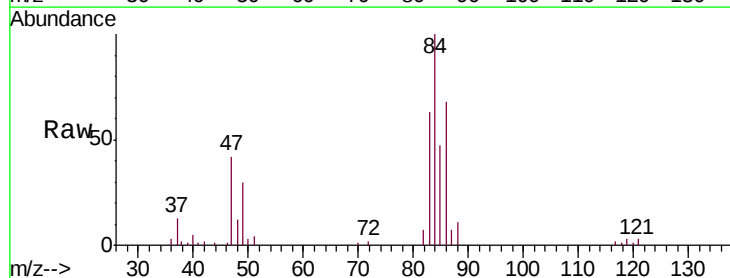
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



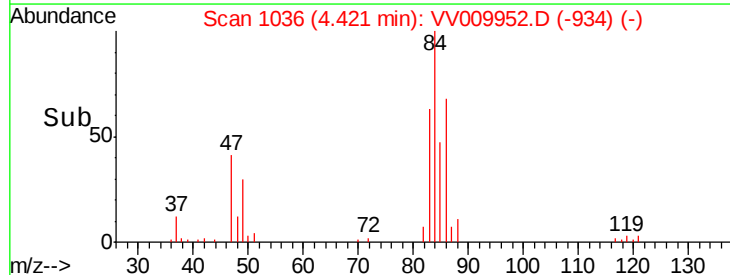
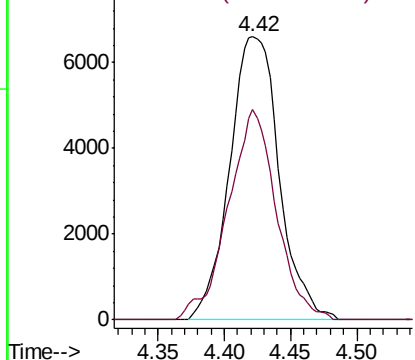
#25

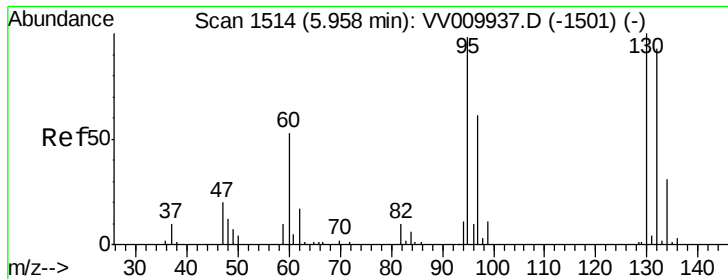
Chloroform
Concen: 3.819 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV009952.D
Acq: 28 Mar 2019 02:58

Tgt Ion: 83 Resp: 17158
Ion Ratio Lower Upper
83 100
85 69.9 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 85.00 (84.70 to 85.70): VV0





#35

Trichloroethene

Concen: 94.696 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009952.D

Acq: 28 Mar 2019 02:58

Instrument :

MSVOA_V

ClientSampled :

BF0E6

Tgt Ion: 95 Resp: 230639

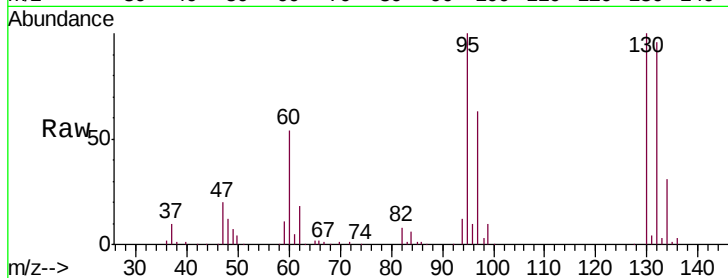
Ion Ratio Lower Upper

95 100

97 65.0 46.3 85.9

132 97.0 69.3 128.7

130 101.5 69.5 129.1

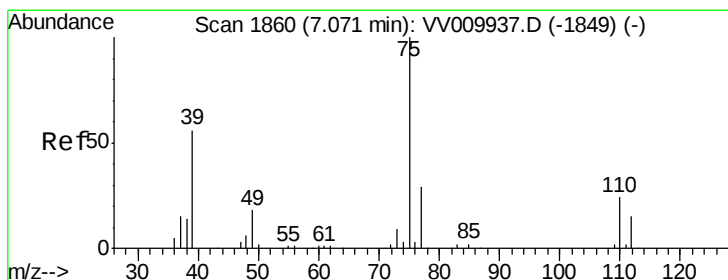
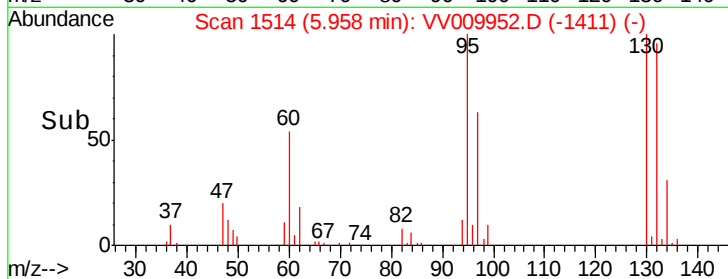
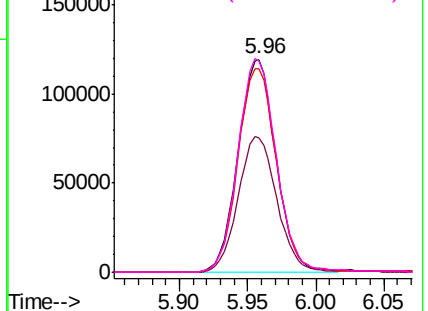


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#42

cis-1,3-Dichloropropene

Concen: 0.737 ug/L

RT: 7.03 min Scan# 1847

Delta R.T. -0.04 min

Lab File: VV009952.D

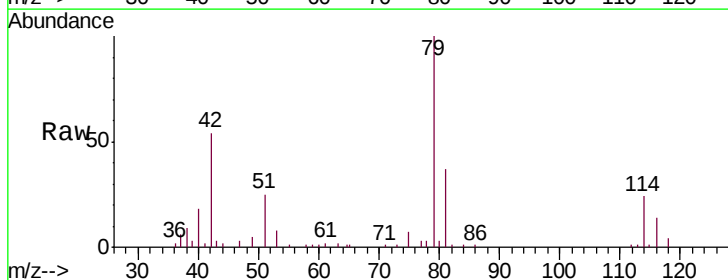
Acq: 28 Mar 2019 02:58

Tgt Ion: 75 Resp: 2480

Ion Ratio Lower Upper

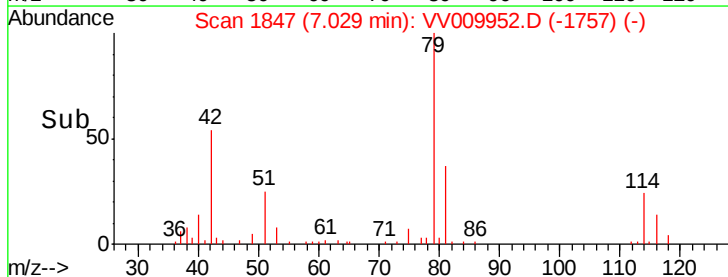
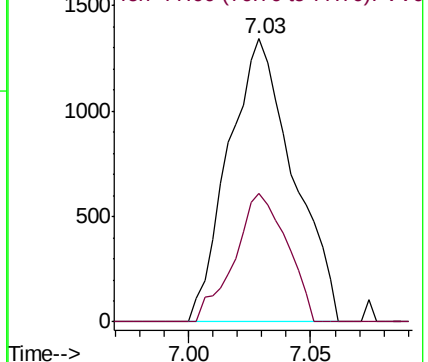
75 100

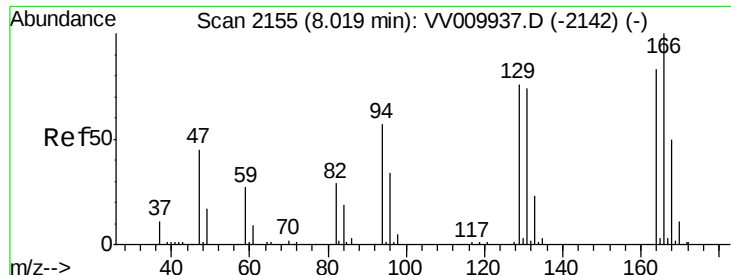
77 45.3 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#47

Tetrachloroethene

Concen: 518.690 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009952.D

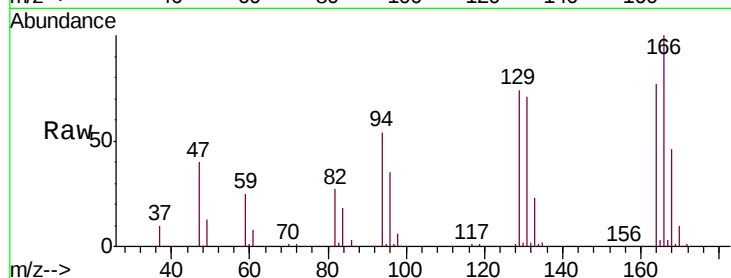
Acq: 28 Mar 2019 02:58

Instrument :

MSVOA_V

ClientSampleId :

BF0E6



Tgt Ion:164 Resp: 996886

Ion Ratio Lower Upper

164 100

129 95.7 64.9 120.5

131 91.2 62.0 115.2

166 129.3 82.9 153.9

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

