

Data File : VV012003.D
Acq On : 24 Jul 2019 11:34
Operator : SY/MD
Sample : K3890-12
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A52U4

Quant Time: Jul 25 04:15:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 25 04:12:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	136803	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	132666	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	70634	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	28137	3.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.20%
7) Chloroethane-d5	1.59	69	22416	4.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.20%
11) 1,1-Dichloroethene-d2	2.13	63	53732	3.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.00%
20) 2-Butanone-d5	3.97	46	92536	44.52	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.04%
24) Chloroform-d	4.40	84	74970	4.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.40%
26) 1,2-Dichloroethane-d4	5.08	65	44129	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.10	84	159086	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.00%
36) 1,2-Dichloropropane-d6	6.12	67	44167	4.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.40%
41) Toluene-d8	7.36	98	146489	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
43) trans-1,3-Dichloropropene-	7.66	79	18026	4.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.00%
46) 2-Hexanone-d5	8.14	63	76212	44.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.34%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	31683	4.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	58969	4.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.60%

Target Compounds

					Qvalue
6) Bromomethane	1.54	94	10232	2.071 ug/L	95
12) 1,1-Dichloroethene	2.14	96	14188	2.279 ug/L #	70
13) Acetone	2.21	43	84075	75.045 ug/L	83
14) Carbon disulfide	2.32	76	148741	8.381 ug/L	100
15) Methyl Acetate	2.47	43	96585	39.490 ug/L	96
16) Methylene chloride	2.54	84	37813	5.416 ug/L	96
17) Methyl tert-butyl Ether	2.81	73	271720	12.790 ug/L	99
21) 2-Butanone	4.05	43	89001	41.412 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	74349	7.135 ug/L	98
25) Chloroform	4.43	83	9828	0.475 ug/L	97
27) 1,2-Dichloroethane	5.18	62	71270	6.197 ug/L	98
30) Cyclohexane	4.72	56	189075	11.787 ug/L	100
33) Benzene	5.15	78	223757	5.734 ug/L	100
34) Trichloroethene	5.96	95	42120	3.887 ug/L	98
35) Methylcyclohexane	6.17	83	387469	22.972 ug/L	97
37) 1,2-Dichloropropane	6.17	63	4797	0.511 ug/L #	84
39) cis-1,3-Dichloropropene	7.04	75	1246	0.090 ug/L #	79

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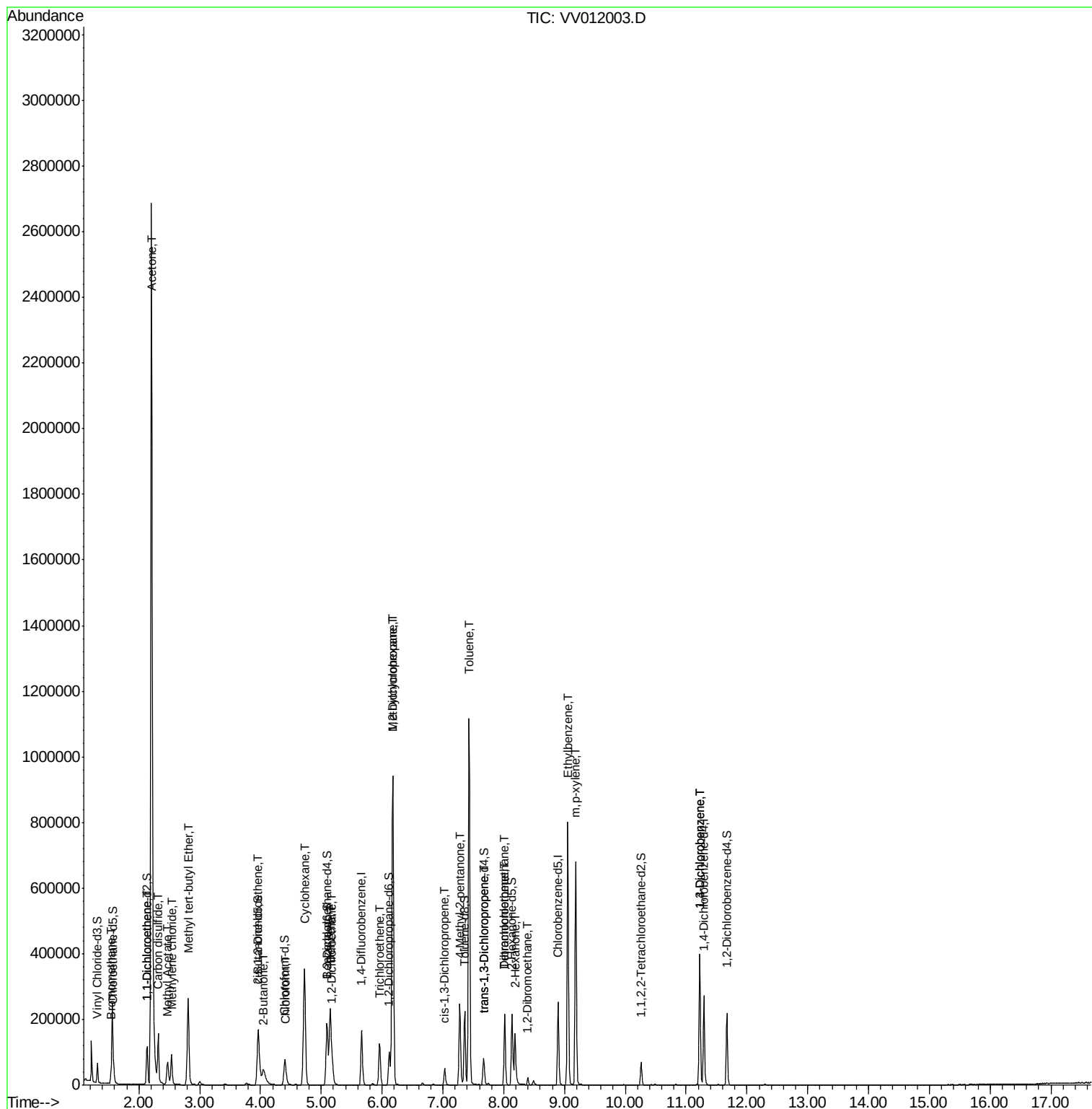
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.28	43	168796	32.201	ug/L	98
42) Toluene	7.43	91	773964	18.477	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	1960	0.177	ug/L	95
47) Tetrachloroethene	8.02	164	48564	5.193	ug/L	97
48) 2-Hexanone	8.19	43	99408	27.033	ug/L	99
49) Dibromochloromethane	8.02	129	42698	5.381	ug/L #	10
50) 1,2-Dibromoethane	8.40	107	13157	2.151	ug/L	99
52) Ethylbenzene	9.05	91	535136	11.192	ug/L	99
53) m,p-xylene	9.18	106	180450	9.915	ug/L	98
62) 1,3-Dichlorobenzene	11.23	146	161818	7.004	ug/L	99
63) 1,4-Dichlorobenzene	11.23	146	161818	6.804	ug/L	97

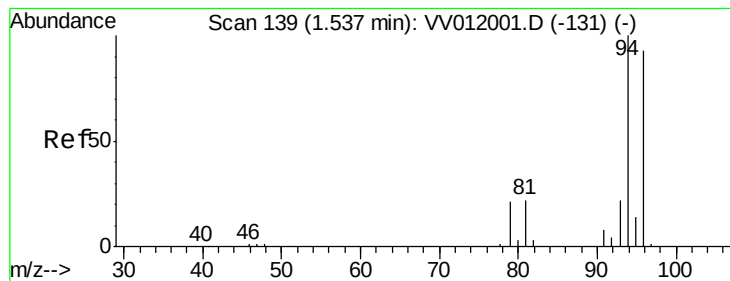
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 2.071 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampled :

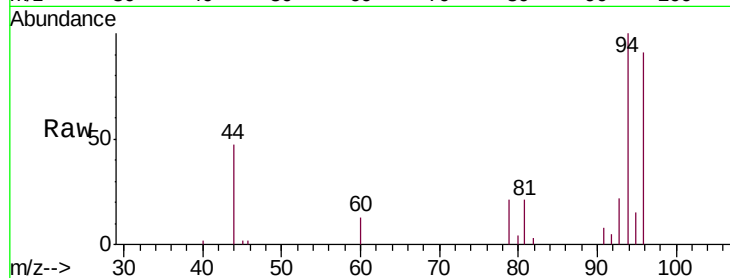
A52U4

Tgt Ion: 94 Resp: 10232

Ion Ratio Lower Upper

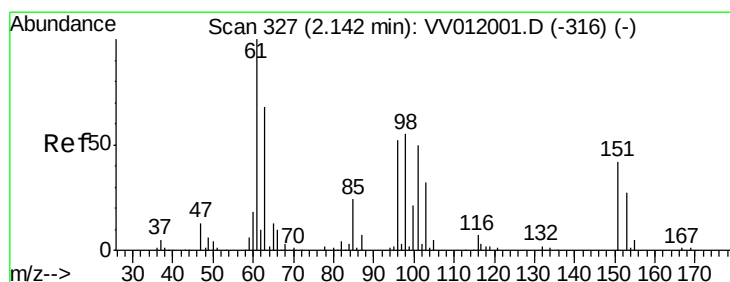
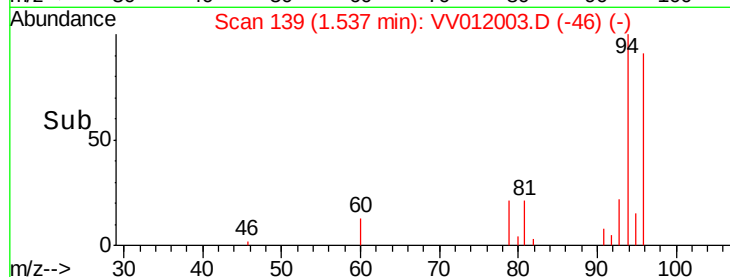
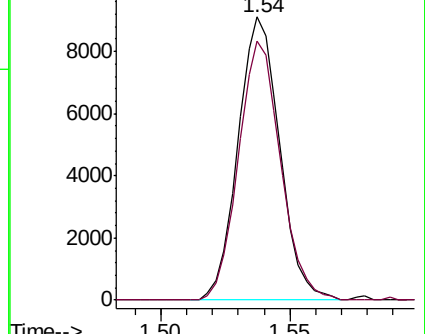
94 100

96 91.5 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



#12

1,1-Dichloroethene

Concen: 2.279 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

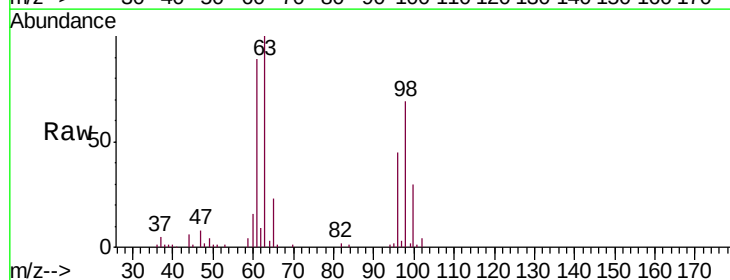
Tgt Ion: 96 Resp: 14188

Ion Ratio Lower Upper

96 100

61 199.7 132.7 246.5

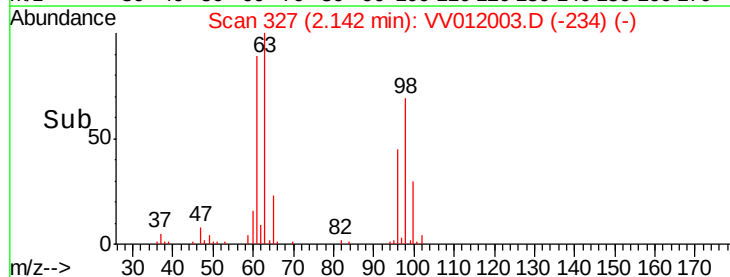
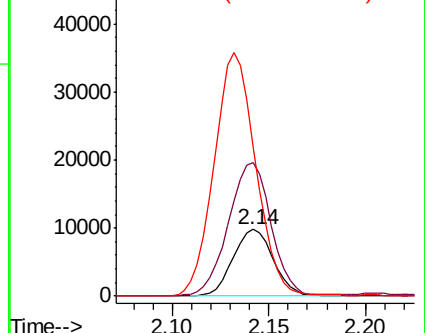
63 224.2 104.0 193.1#

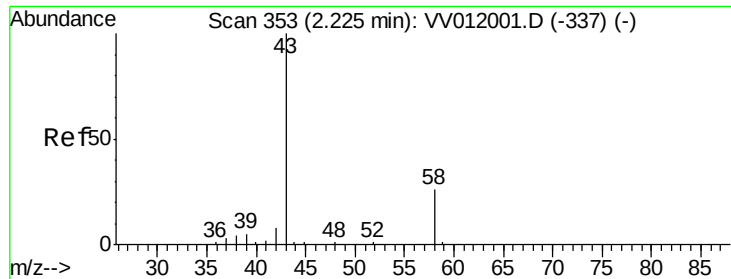


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 75.045 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.01 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampleId :

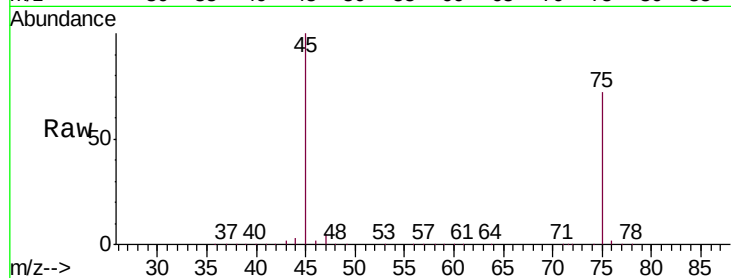
A52U4

Tgt Ion: 43 Resp: 84075

Ion Ratio Lower Upper

43 100

58 17.2 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

25000

20000

15000

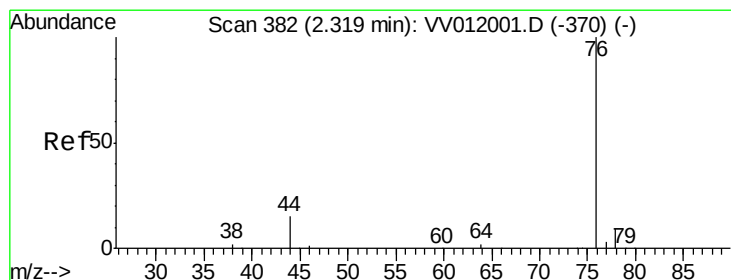
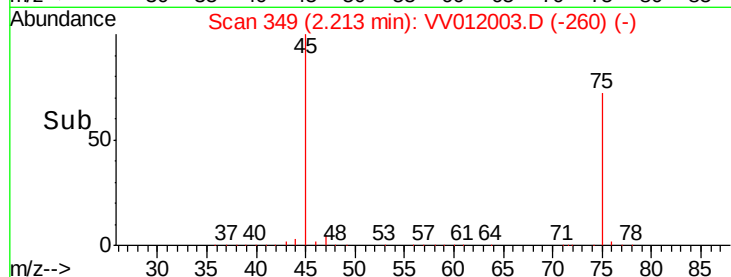
10000

5000

0

2.10 2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 8.381 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012003.D

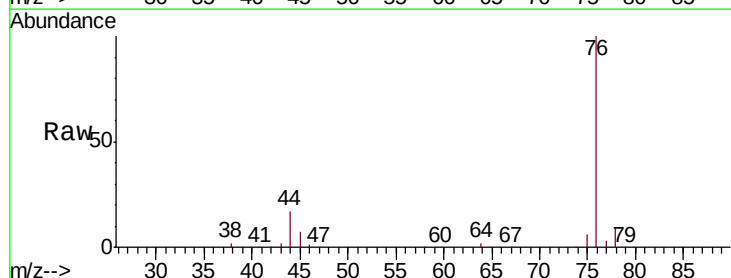
Acq: 24 Jul 2019 11:34

Tgt Ion: 76 Resp: 148741

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

120000

100000

80000

60000

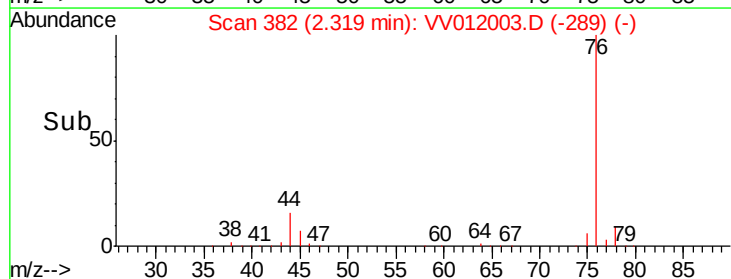
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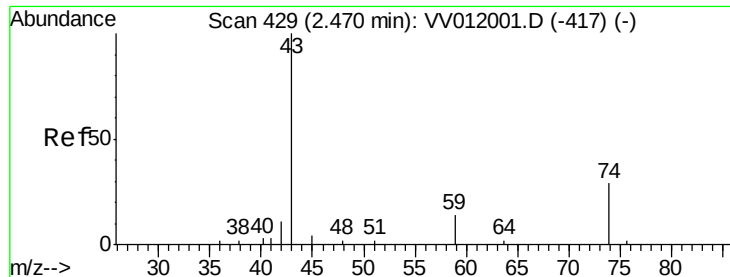
20000

0

2.25 2.30 2.35 2.40

Time-->





#15

Methyl Acetate

Concen: 39.490 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampleId :

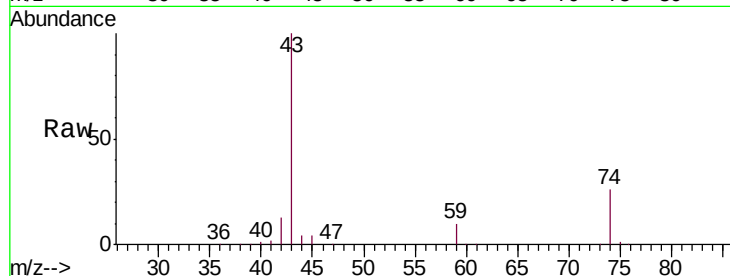
A52U4

Tgt Ion: 43 Resp: 96585

Ion Ratio Lower Upper

43 100

74 27.2 23.4 35.2



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.47

40000

30000

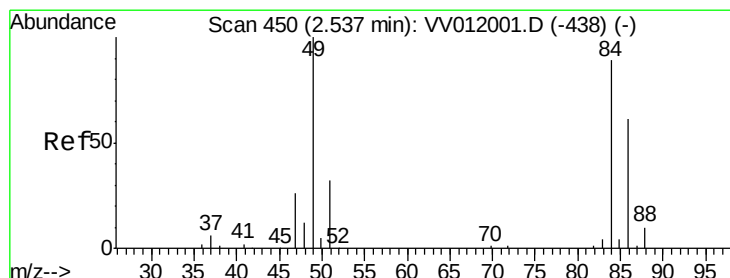
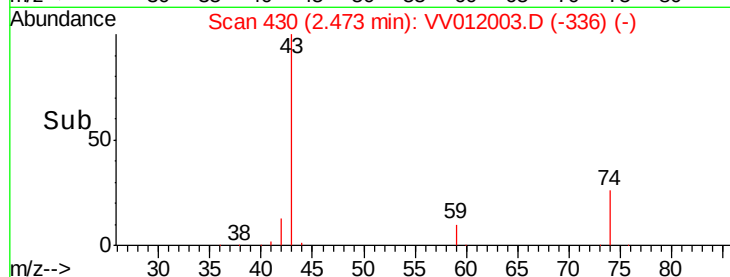
20000

10000

0

Time-->

2.40 2.50 2.60



#16

Methylene chloride

Concen: 5.416 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

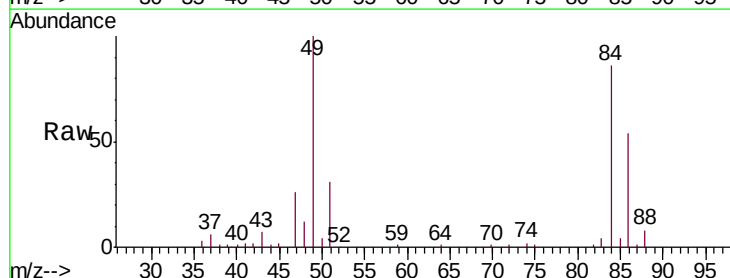
Tgt Ion: 84 Resp: 37813

Ion Ratio Lower Upper

84 100

86 63.2 47.6 88.4

49 116.7 84.3 156.5



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

30000

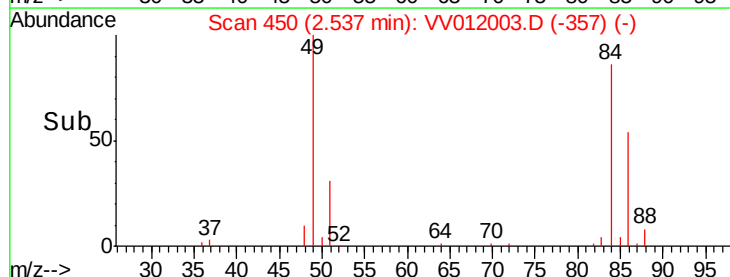
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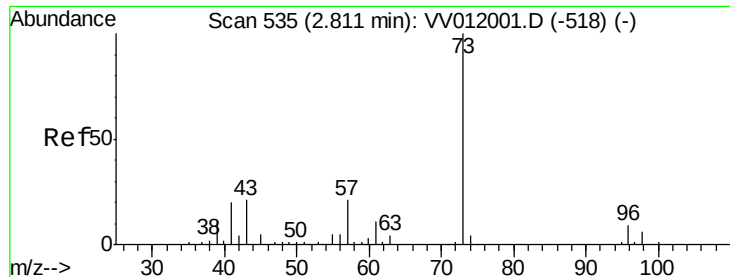
10000

0

Time-->

2.50 2.55 2.60

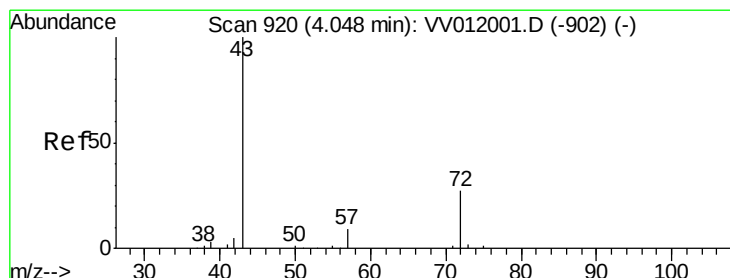
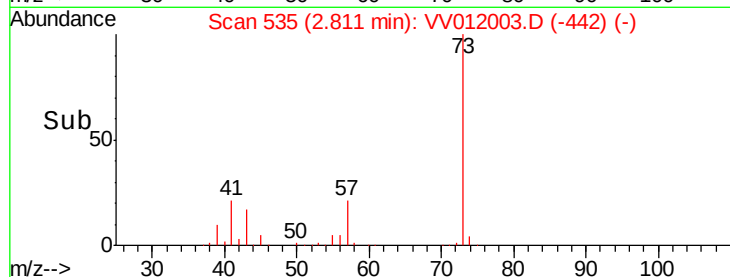
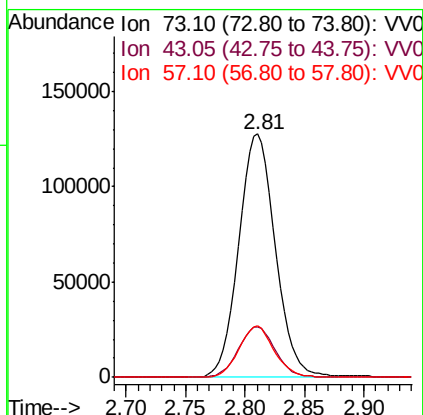
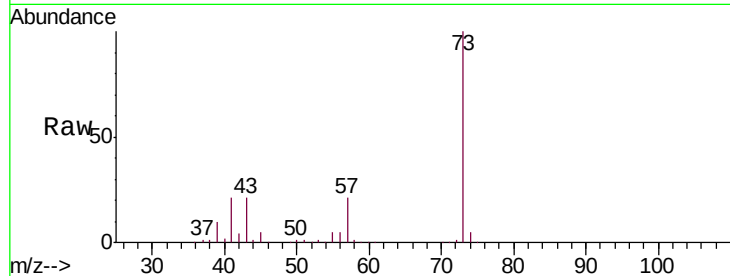




#17
Methyl tert-butyl Ether
Concen: 12.790 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.00 min
Lab File: VV012003.D
Acq: 24 Jul 2019 11:34

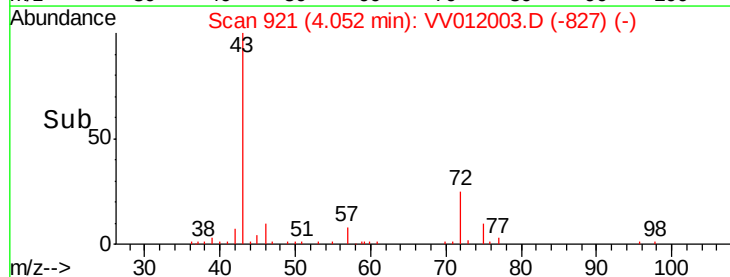
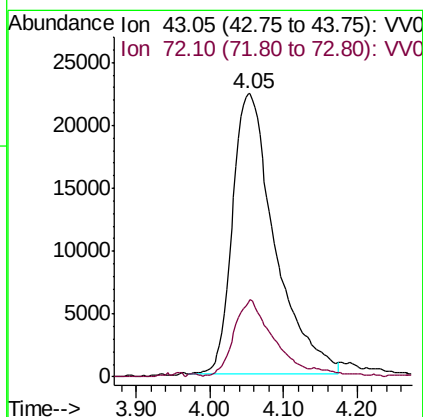
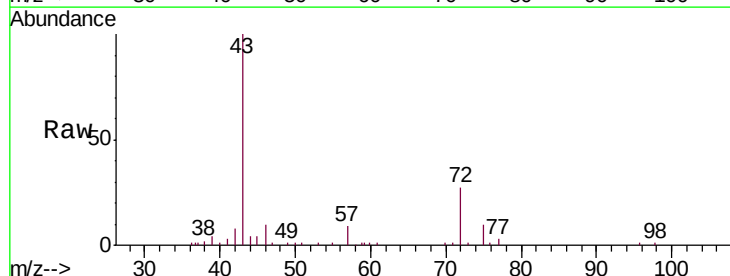
Instrument :
MSVOA_V
ClientSampleId :
A52U4

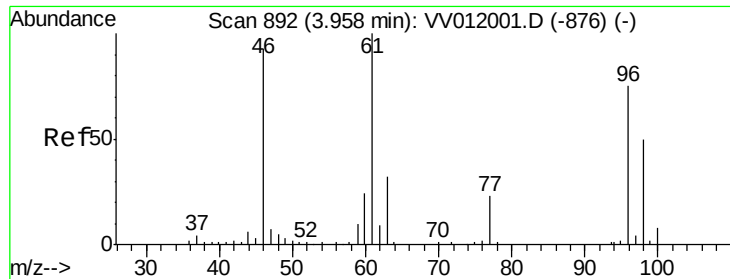
Tgt Ion: 73 Resp: 271720
Ion Ratio Lower Upper
73 100
43 21.0 17.0 25.4
57 20.5 17.0 25.6



#21
2-Butanone
Concen: 41.412 ug/L
RT: 4.05 min Scan# 921
Delta R.T. 0.00 min
Lab File: VV012003.D
Acq: 24 Jul 2019 11:34

Tgt Ion: 43 Resp: 89001
Ion Ratio Lower Upper
43 100
72 25.5 13.6 40.8



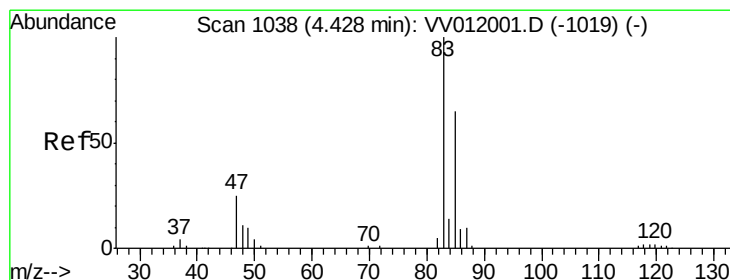
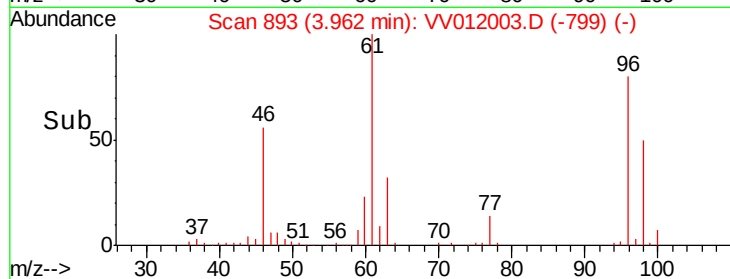
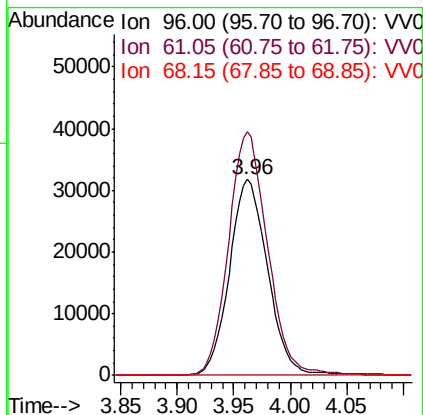
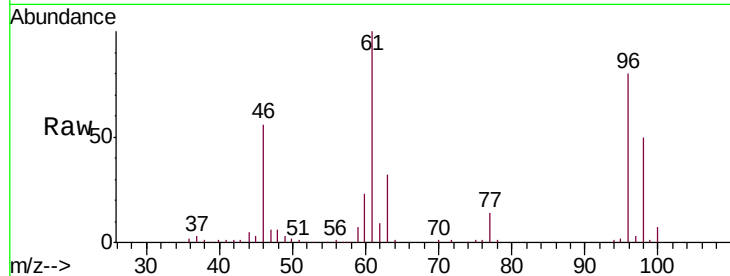


#22

cis-1,2-Dichloroethene
 Concen: 7.135 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV012003.D
 Acq: 24 Jul 2019 11:34

Instrument :
 MSVOA_V
 ClientSampleId :
 A52U4

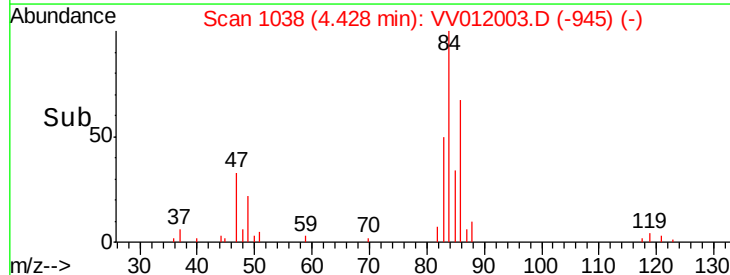
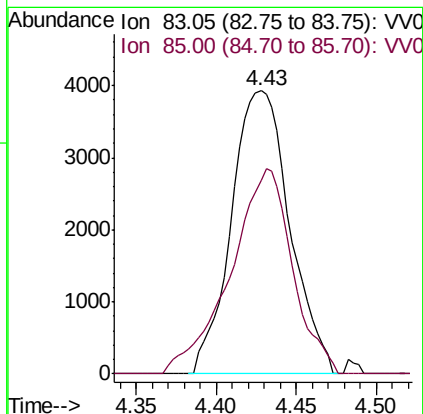
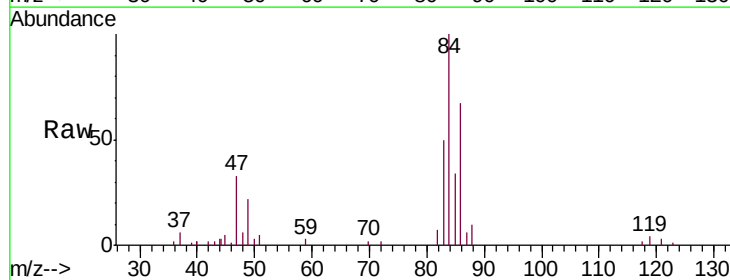
Tgt Ion: 96 Resp: 74349
 Ion Ratio Lower Upper
 96 100
 61 124.3 89.0 165.2
 68 0.0 0.0 0.0

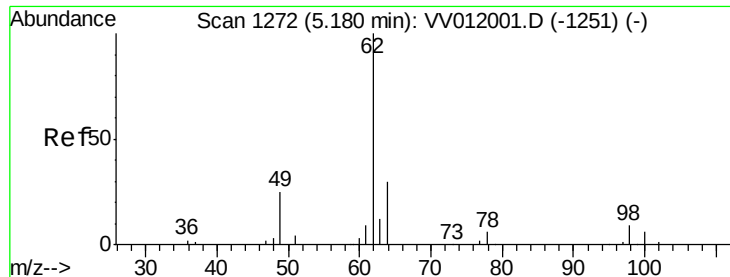


#25

Chloroform
 Concen: 0.475 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: VV012003.D
 Acq: 24 Jul 2019 11:34

Tgt Ion: 83 Resp: 9828
 Ion Ratio Lower Upper
 83 100
 85 68.6 46.5 86.3

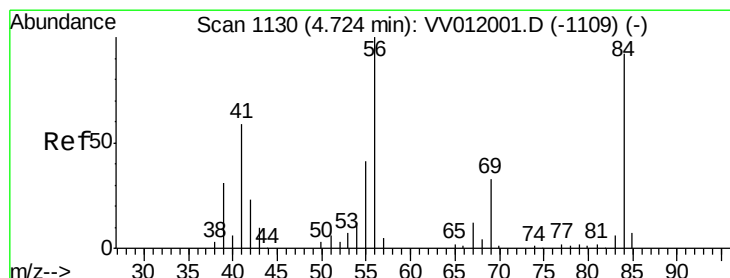
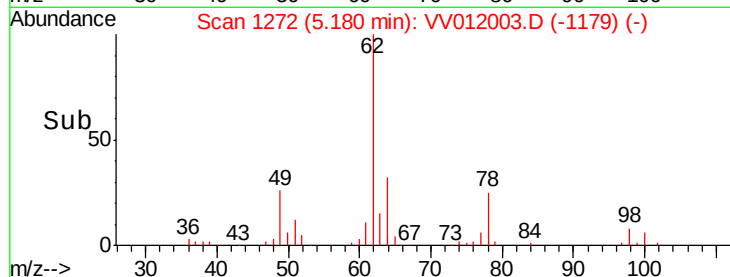
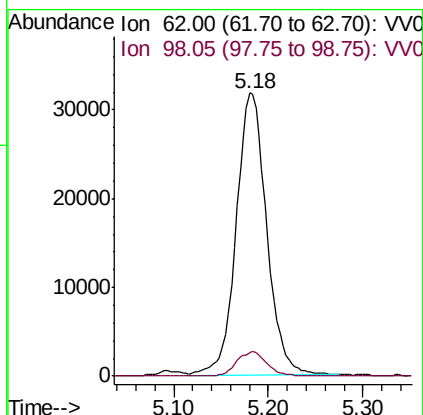
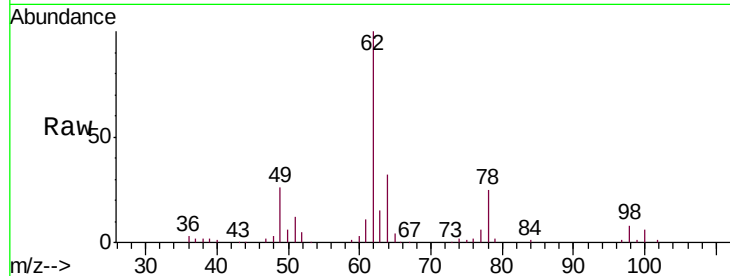




#27
 1,2-Dichloroethane
 Concen: 6.197 ug/L
 RT: 5.18 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VV012003.D
 Acq: 24 Jul 2019 11:34

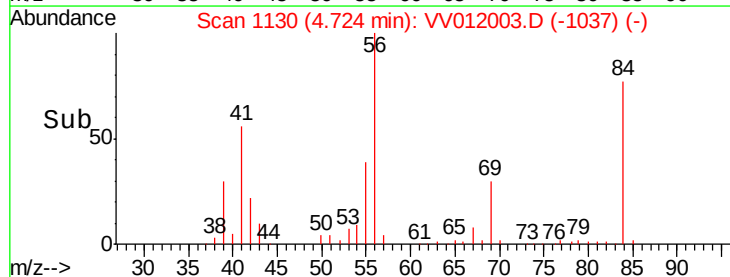
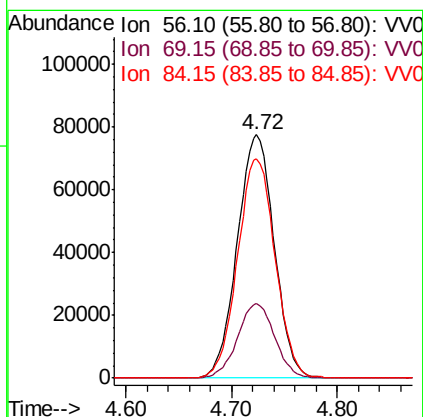
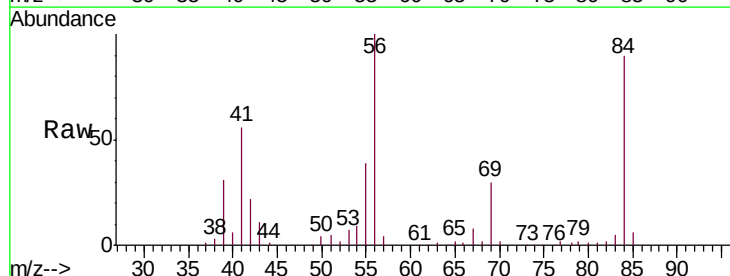
Instrument :
 MSVOA_V
 ClientSampleId :
 A52U4

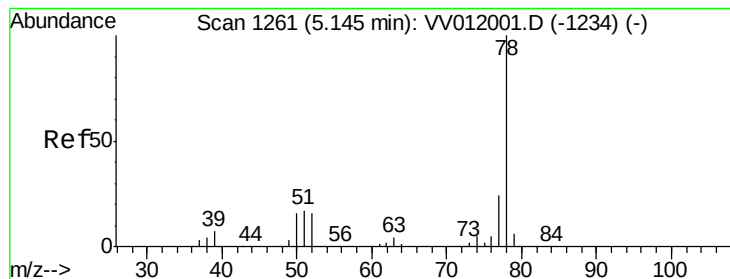
Tgt Ion: 62 Resp: 71270
 Ion Ratio Lower Upper
 62 100
 98 8.2 7.0 10.6



#30
 Cyclohexane
 Concen: 11.787 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV012003.D
 Acq: 24 Jul 2019 11:34

Tgt Ion: 56 Resp: 189075
 Ion Ratio Lower Upper
 56 100
 69 30.8 25.4 38.2
 84 91.7 73.4 110.0





#33

Benzene

Concen: 5.734 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

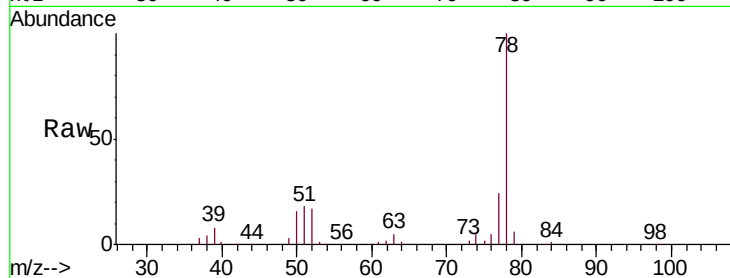
Instrument :

MSVOA_V

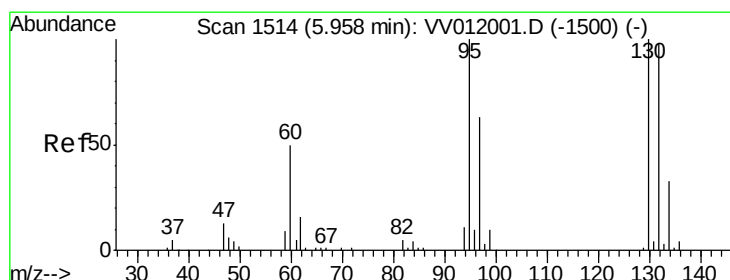
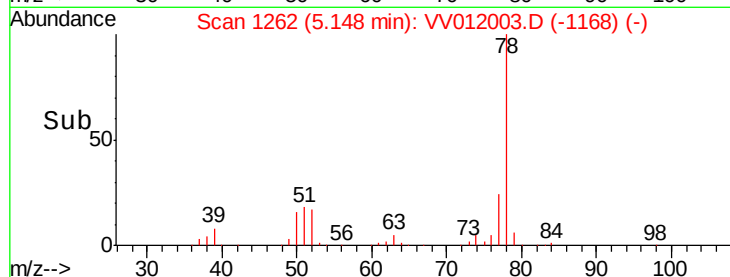
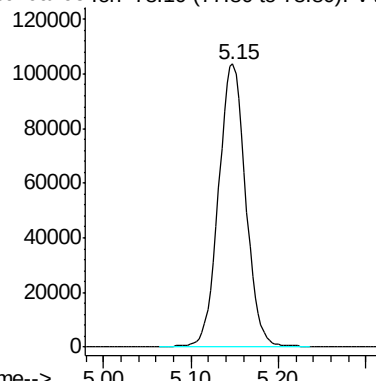
ClientSampleId :

A52U4

Tgt Ion: 78 Resp: 223757



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 3.887 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Tgt Ion: 95 Resp: 42120

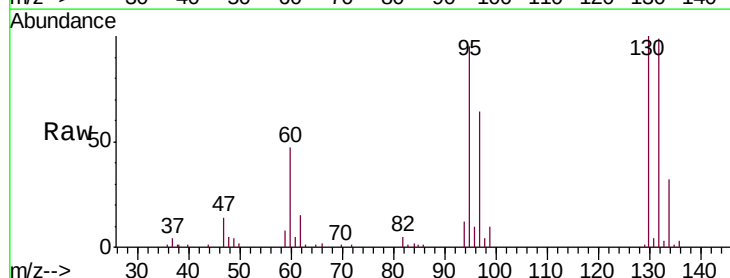
Ion	Ratio	Lower	Upper
95	100		
97	66.8	45.6	84.6
132	104.5	71.3	132.3
130	105.0	72.8	135.2

95 100

97 66.8 45.6 84.6

132 104.5 71.3 132.3

130 105.0 72.8 135.2

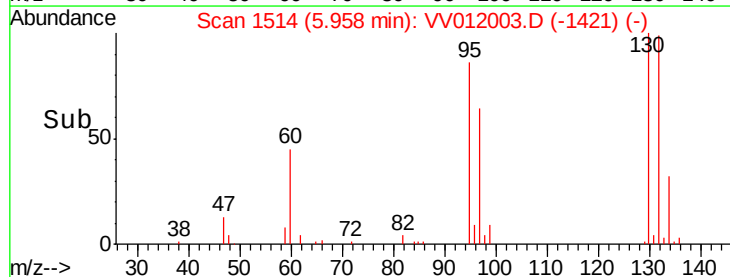
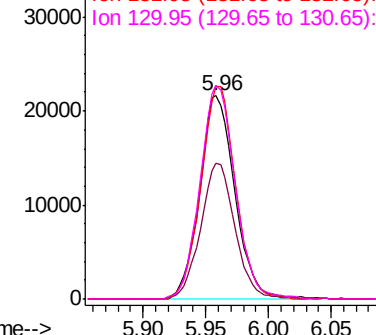


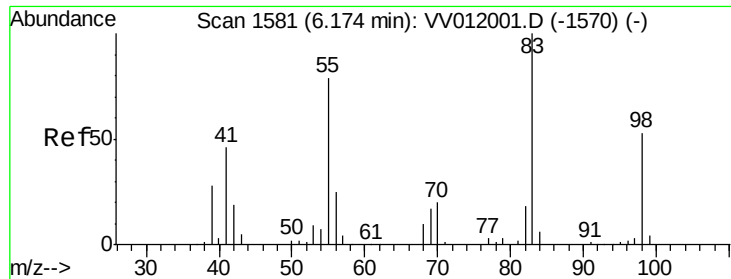
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

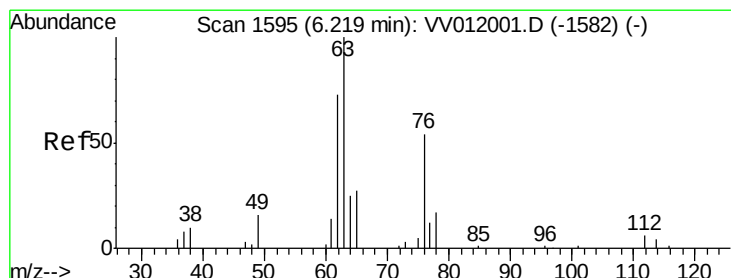
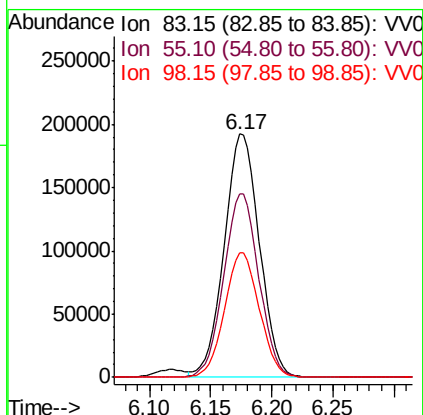
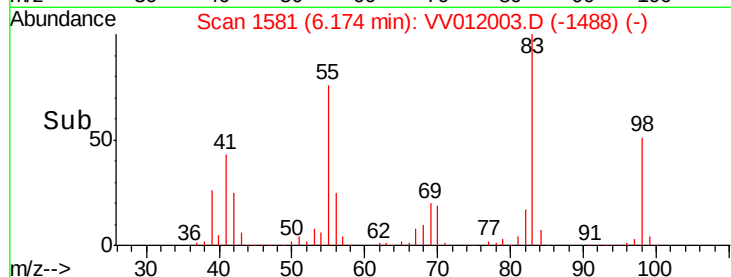
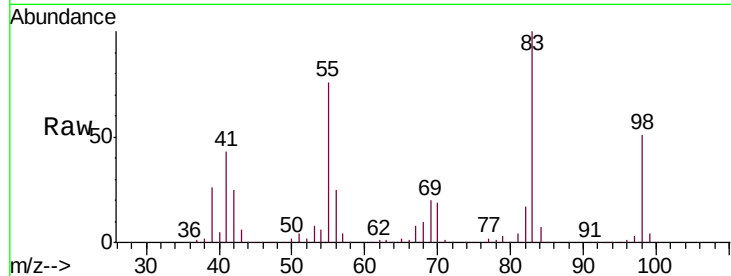




#35
Methylcyclohexane
Concen: 22.972 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV012003.D
Acq: 24 Jul 2019 11:34

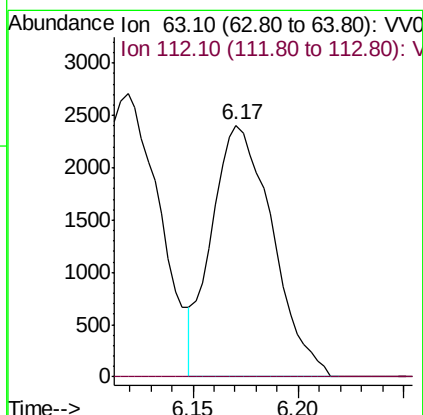
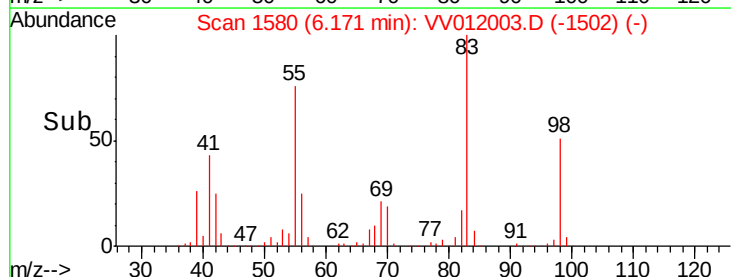
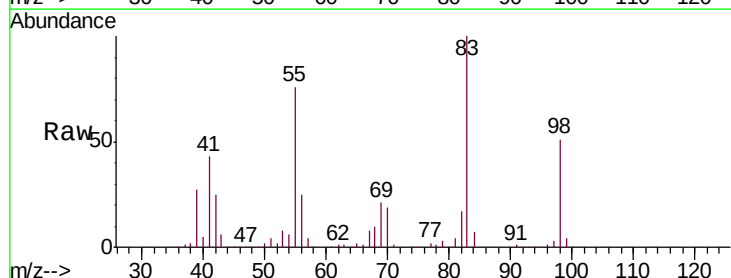
Instrument :
MSVOA_V
ClientSampleId :
A52U4

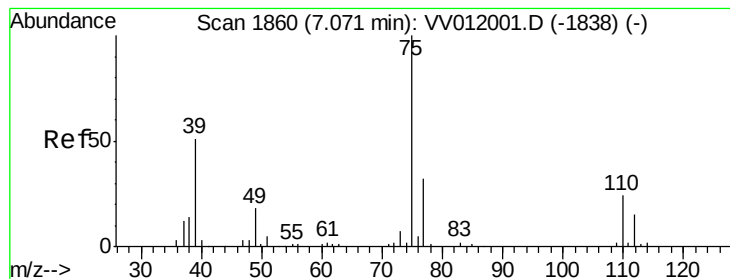
Tgt Ion: 83 Resp: 387469
Ion Ratio Lower Upper
83 100
55 75.4 63.0 94.4
98 50.6 41.4 62.0



#37
1,2-Dichloropropane
Concen: 0.511 ug/L
RT: 6.17 min Scan# 1580
Delta R.T. -0.05 min
Lab File: VV012003.D
Acq: 24 Jul 2019 11:34

Tgt Ion: 63 Resp: 4797
Ion Ratio Lower Upper
63 100
112 0.0 4.2 6.4#





#39

cis-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampleId :

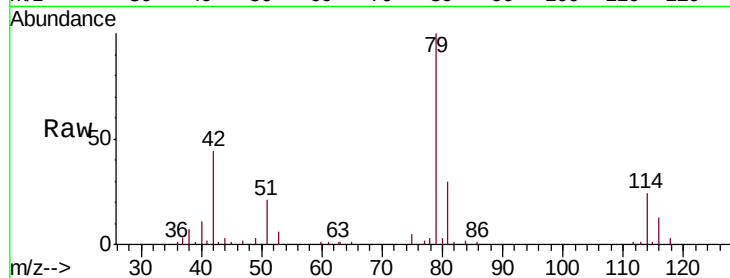
A52U4

Tgt Ion: 75 Resp: 1246

Ion Ratio Lower Upper

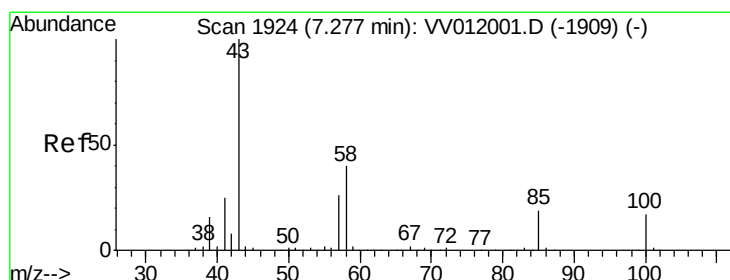
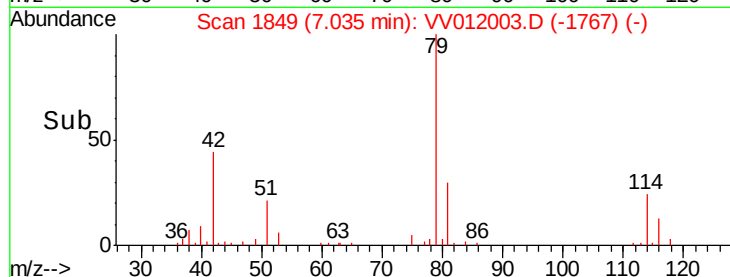
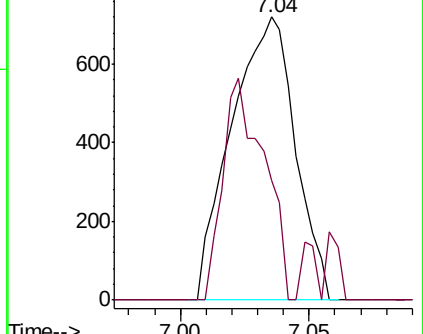
75 100

77 42.2 21.3 39.6#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 32.201 ug/L

RT: 7.28 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

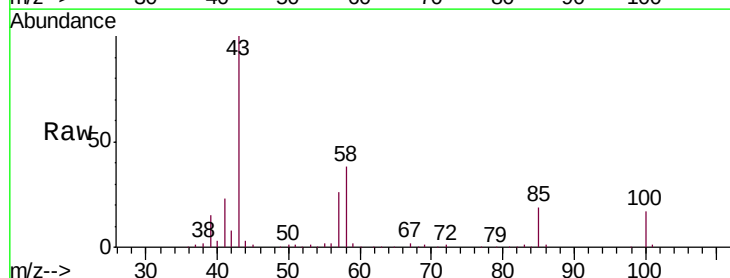
Tgt Ion: 43 Resp: 168796

Ion Ratio Lower Upper

43 100

58 37.6 31.2 46.8

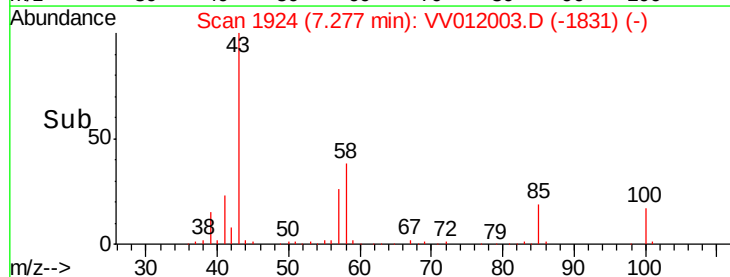
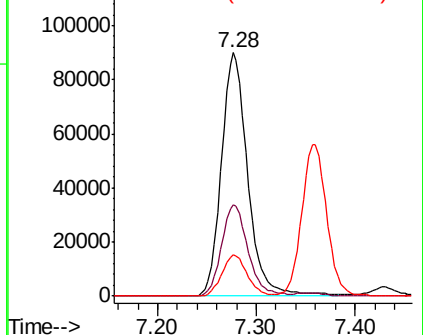
100 16.3 13.5 20.3

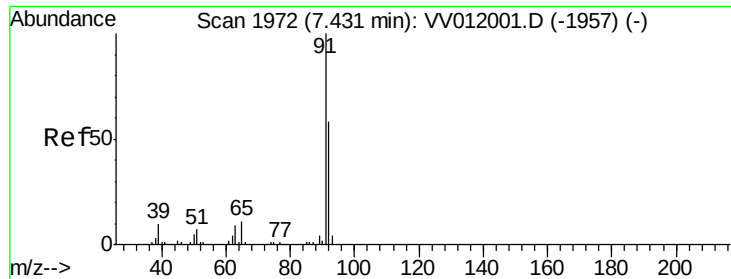


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 18.477 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampleId :

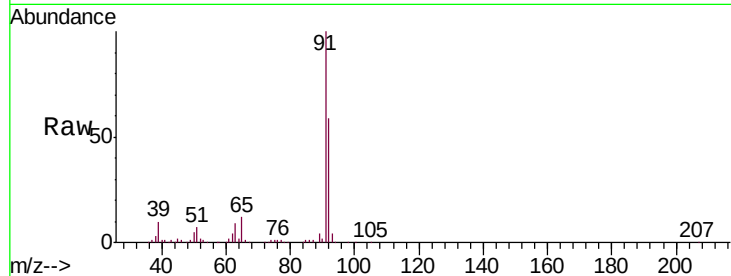
A52U4

Tgt Ion: 91 Resp: 773964

Ion Ratio Lower Upper

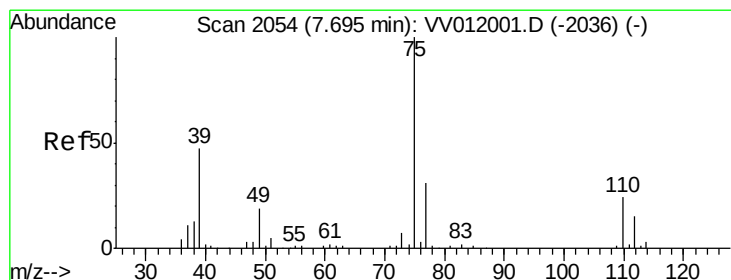
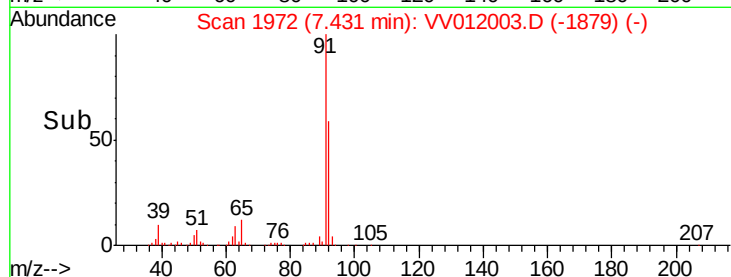
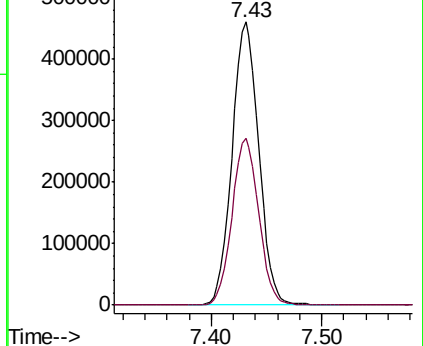
91 100

92 59.0 41.9 77.9



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.177 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV012003.D

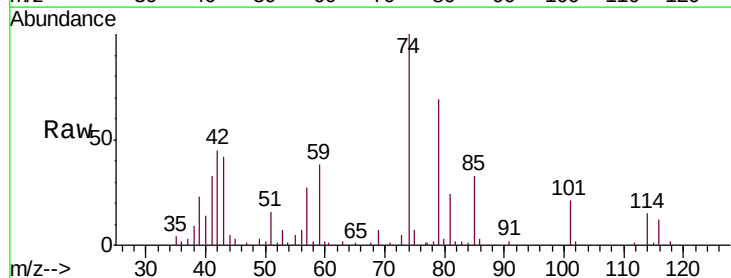
Acq: 24 Jul 2019 11:34

Tgt Ion: 75 Resp: 1960

Ion Ratio Lower Upper

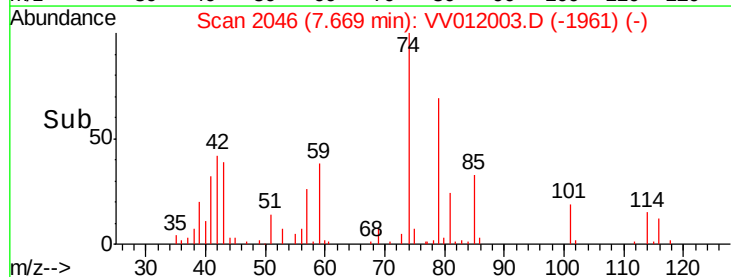
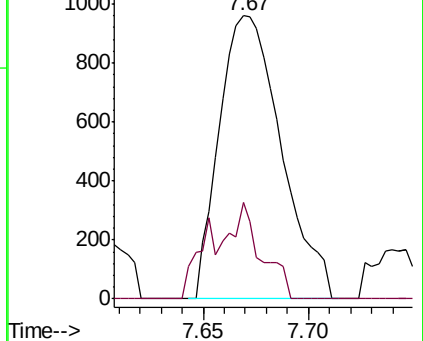
75 100

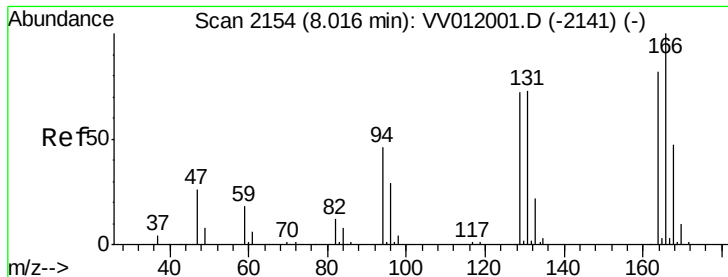
77 34.1 22.0 40.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





#47

Tetrachloroethene

Concen: 5.193 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :
MSVOA_V
ClientSampleId :
A52U4

Tgt Ion:164 Resp: 48564

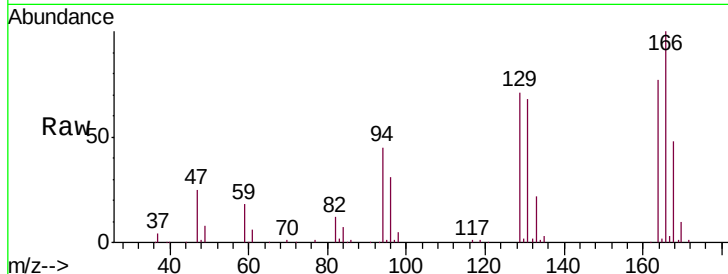
Ion Ratio Lower Upper

164 100

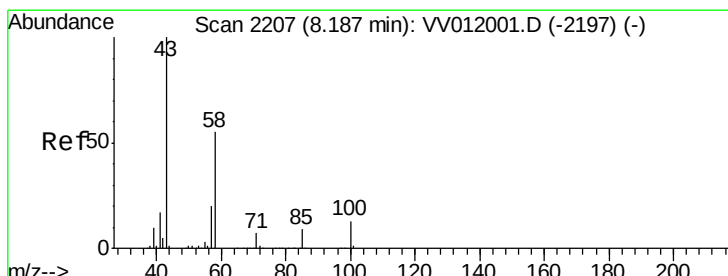
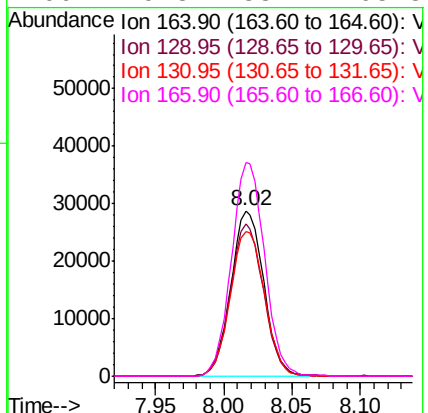
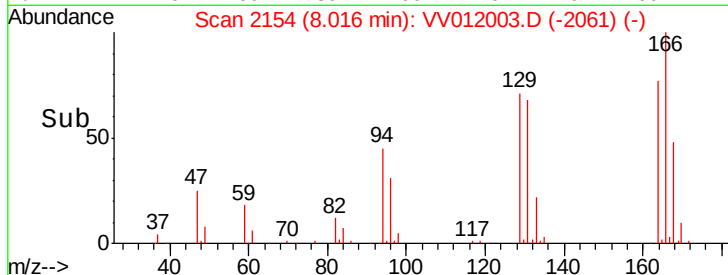
129 92.3 62.5 116.1

131 87.8 58.6 108.8

166 129.3 88.2 163.8



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



#48

2-Hexanone

Concen: 27.033 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Tgt Ion: 43 Resp: 99408

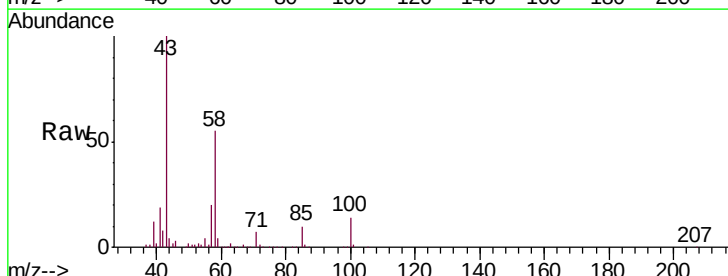
Ion Ratio Lower Upper

43 100

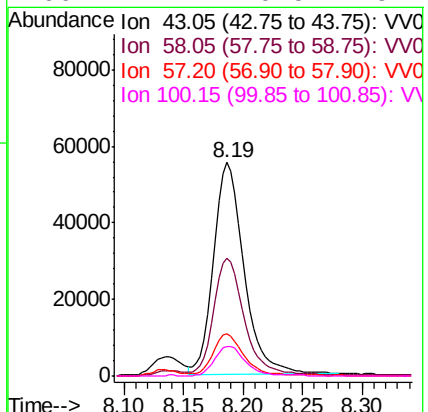
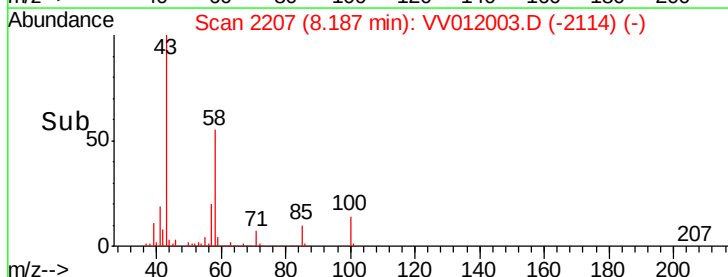
58 54.8 43.7 65.5

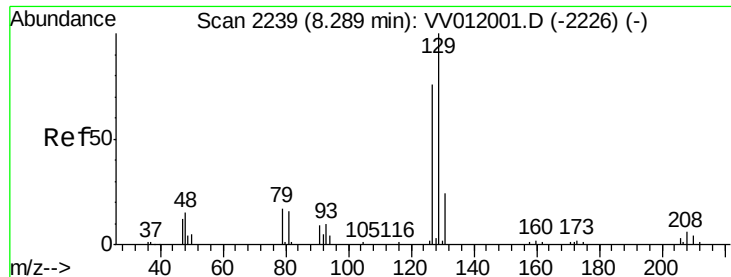
57 19.6 16.0 24.0

100 14.2 10.5 15.7



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 5.381 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampleId :

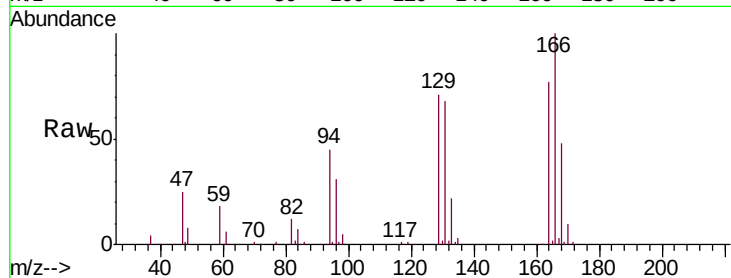
A52U4

Tgt Ion:129 Resp: 42698

Ion Ratio Lower Upper

129 100

127 0.0 55.3 102.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.02

25000

20000

15000

10000

5000

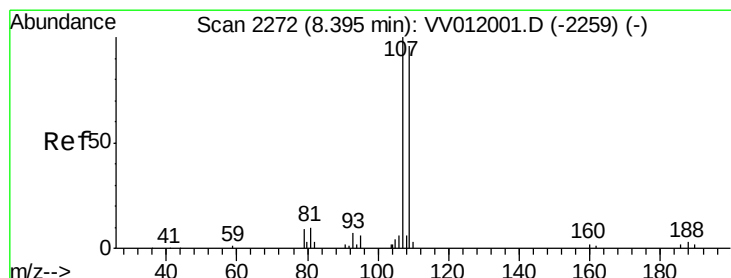
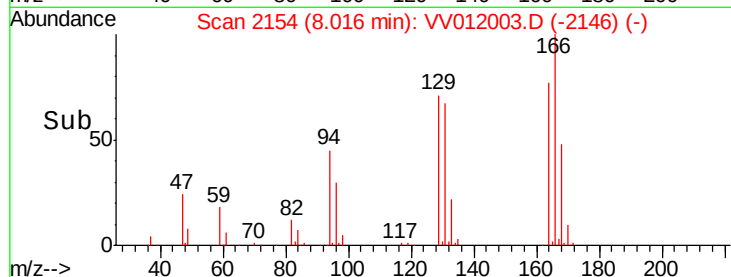
0

Time-->

8.00

8.05

8.10



#50

1,2-Dibromoethane

Concen: 2.151 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

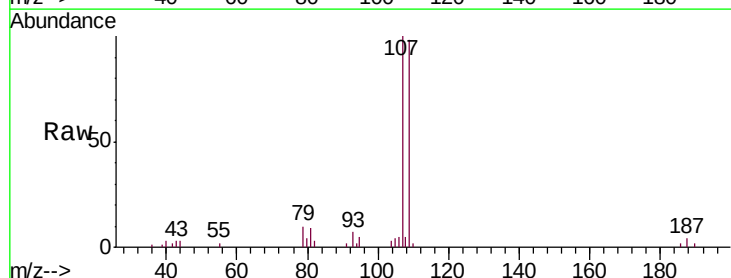
Tgt Ion:107 Resp: 13157

Ion Ratio Lower Upper

107 100

109 98.4 68.1 126.5

188 4.3 3.5 5.3



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V

8.40

10000

8000

6000

4000

2000

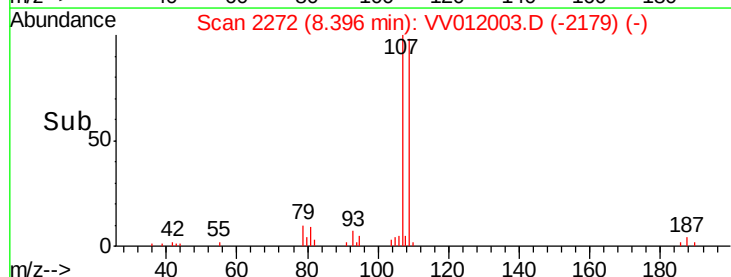
0

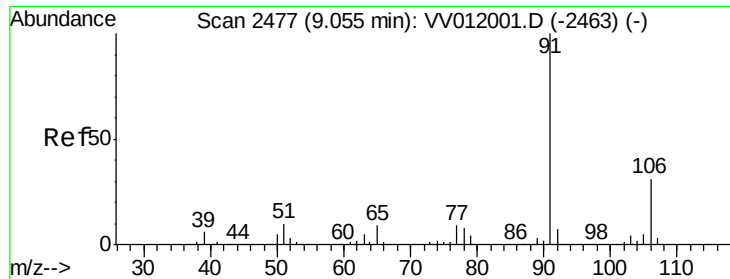
Time-->

8.35

8.40

8.45





#52

Ethylbenzene

Concen: 11.192 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampleId :

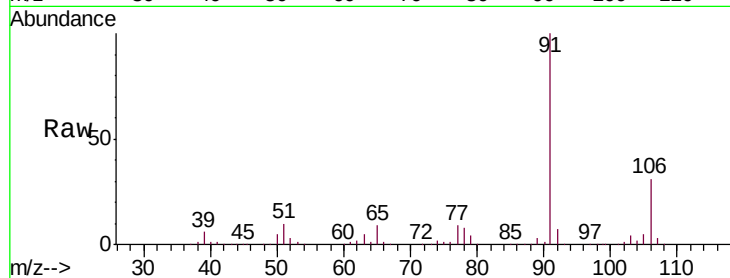
A52U4

Tgt Ion: 91 Resp: 535136

Ion Ratio Lower Upper

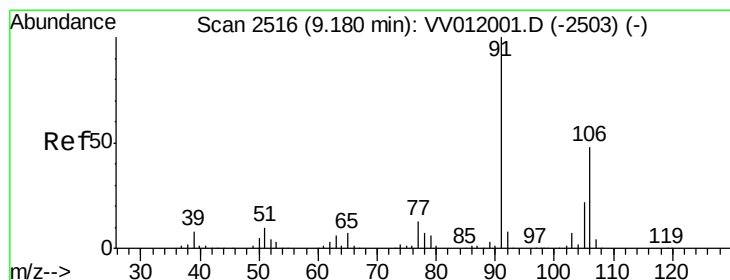
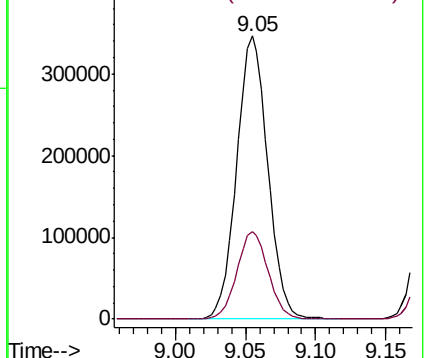
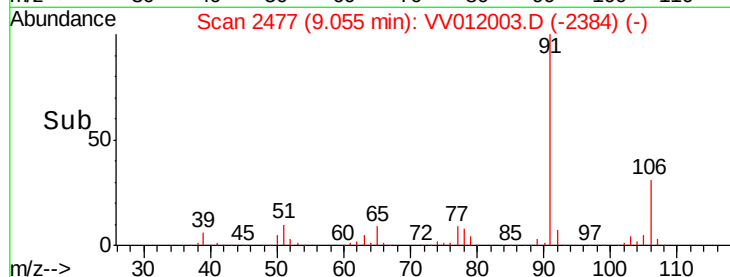
91 100

106 31.1 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV012003.D (-2384) (-)

Ion 106.15 (105.85 to 106.85): VV012003.D (-2384) (-)



#53

m,p-xylene

Concen: 9.915 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012003.D

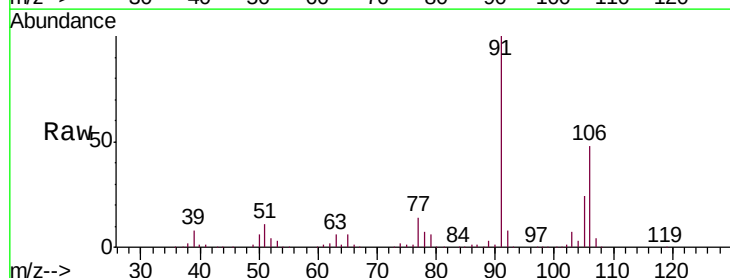
Acq: 24 Jul 2019 11:34

Tgt Ion: 106 Resp: 180450

Ion Ratio Lower Upper

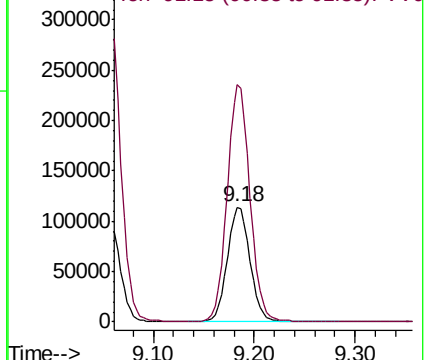
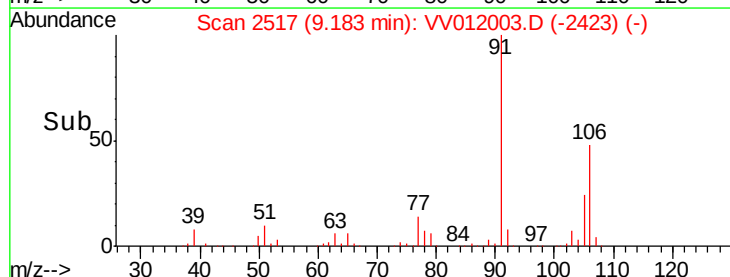
106 100

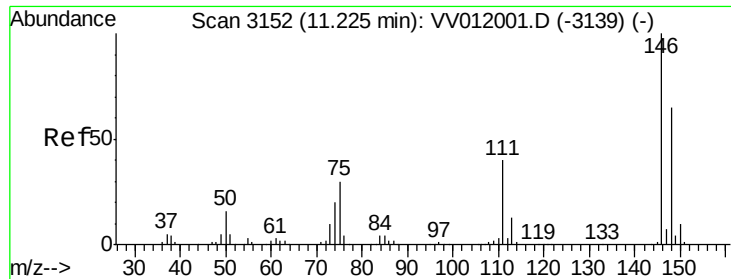
91 207.3 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): VV012003.D (-2423) (-)

Ion 91.15 (90.85 to 91.85): VV012003.D (-2423) (-)





#62

1,3-Dichlorobenzene

Concen: 7.004 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

Instrument :

MSVOA_V

ClientSampleId :

A52U4

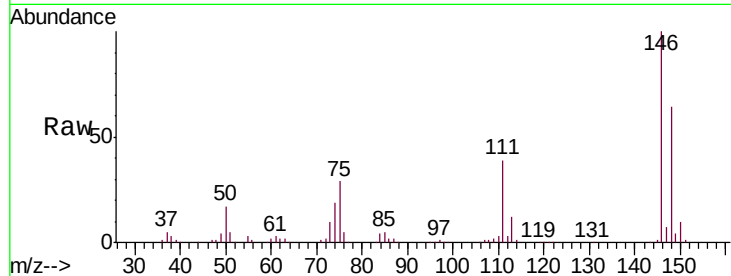
Tgt Ion:146 Resp: 161818

Ion Ratio Lower Upper

146 100

111 39.4 27.1 50.3

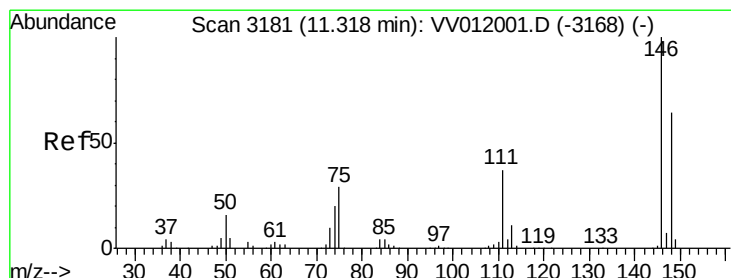
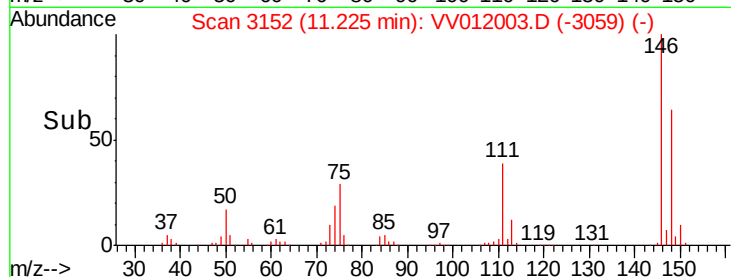
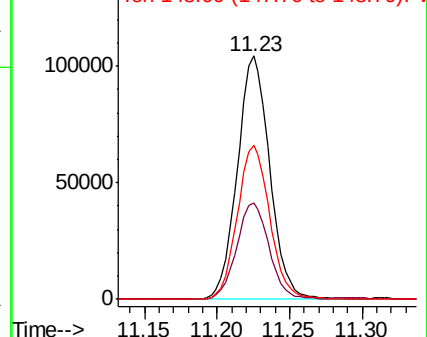
148 63.5 44.5 82.7



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: 6.804 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. -0.09 min

Lab File: VV012003.D

Acq: 24 Jul 2019 11:34

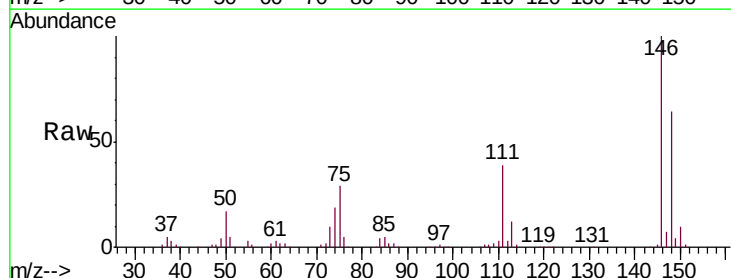
Tgt Ion:146 Resp: 161818

Ion Ratio Lower Upper

146 100

111 39.4 26.0 48.2

148 63.5 43.0 80.0



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

