

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081318\
 Data File : VV007002.D
 Acq On : 13 Aug 2018 13:07
 Operator : SY/MD
 Sample : J4451-23
 Misc : 25 mL/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A4ZL3

Quant Time: Aug 14 16:45:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Aug 14 05:35:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	229237	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	217026	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	96177	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	58956	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.58	69	54325	4.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.60%
11) 1,1-Dichloroethene-d2	2.13	63	95249	3.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.60%
20) 2-Butanone-d5	3.97	46	229282	53.88	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.76%
24) Chloroform-d	4.40	84	141627	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
26) 1,2-Dichloroethane-d4	5.09	65	74004	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.10	84	269852	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	6.12	67	93694	4.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.40%
41) Toluene-d8	7.36	98	223796	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.67	79	31811	4.80	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.00%
46) 2-Hexanone-d5	8.15	63	123820	45.66	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.32%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	71007	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	78615	4.70	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.54	94	10865	2.25	ug/L	92
12) 1,1-Dichloroethene	2.14	96	29672	1.80	ug/L	88
14) Carbon disulfide	2.32	76	346758	6.38	ug/L	100
15) Methyl Acetate	2.47	43	231741	37.58	ug/L	95
16) Methylene chloride	2.54	84	92574	4.66	ug/L	98
17) Methyl tert-butyl Ether	2.82	73	416802	10.56	ug/L	98
21) 2-Butanone	4.06	43	175103	36.81	ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	119816	5.99	ug/L	95
27) 1,2-Dichloroethane	5.19	62	109168	5.03	ug/L	96
30) Cyclohexane	4.72	56	328555	10.91	ug/L	99
33) Benzene	5.15	78	391378	5.21	ug/L	100
34) Trichloroethene	5.96	95	65253	3.62	ug/L	96
35) Methylcyclohexane	6.18	83	643276	22.23	ug/L	98
40) 4-Methyl-2-pentanone	7.29	43	304014	27.35	ug/L	99
42) Toluene	7.44	91	1262716	17.48	ug/L	98
47) Tetrachloroethene	8.02	164	70489	4.82	ug/L	98
48) 2-Hexanone	8.20	43	194090	24.75	ug/L	98

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Response via : Initial Calibration

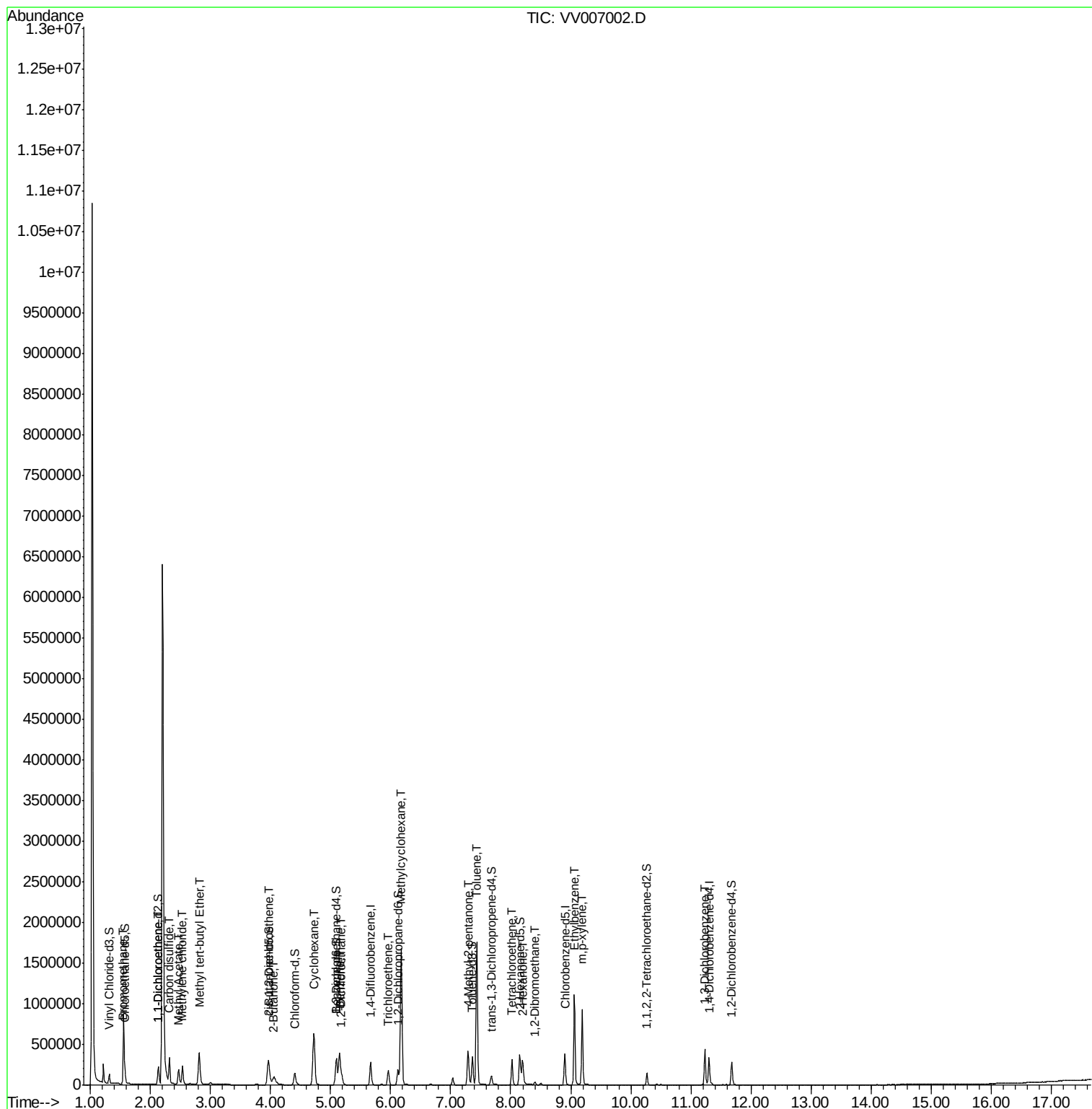
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.40	107	22932	2.03	ug/L #	95
52) Ethylbenzene	9.06	91	744623	10.32	ug/L	100
53) m,p-xylene	9.19	106	242991	9.04	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	195220	6.27	ug/L	99

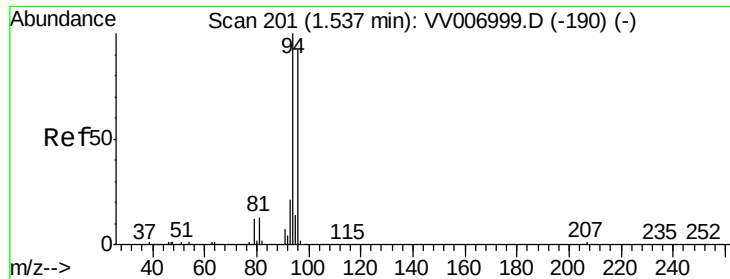
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV081318\
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QLast Update : Tue Aug 14 05:35:33 2018
Response via : Initial Calibration





#6

Bromomethane

Concen: 2.25 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :

MSVOA_V

ClientSampleId :

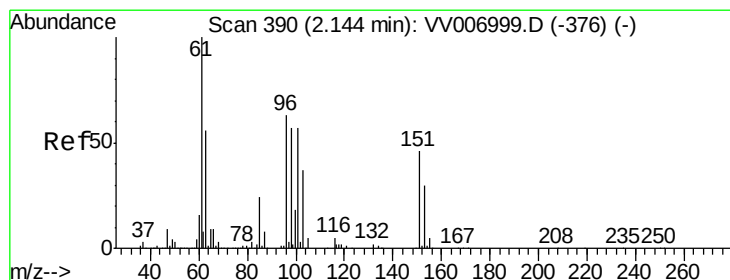
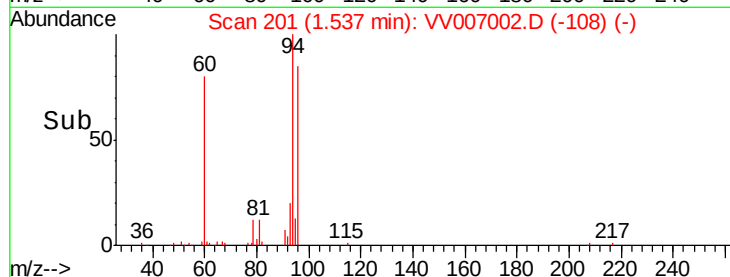
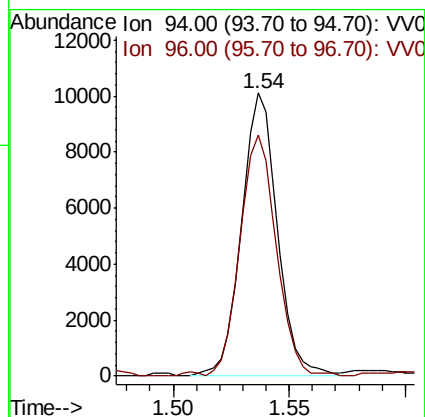
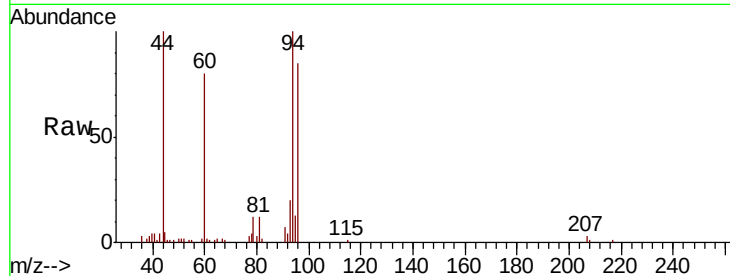
A4ZL3

Tot Ion: 94 Resp: 10865

Ion Ratio Lower Upper

94 100

96 85.2 65.0 120.6



#12

1,1-Dichloroethene

Concen: 1.80 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

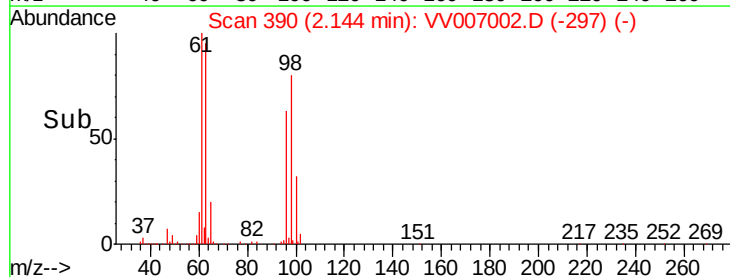
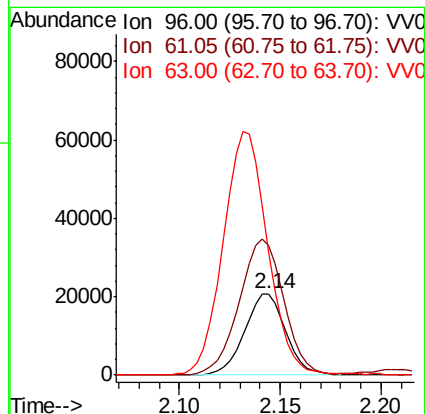
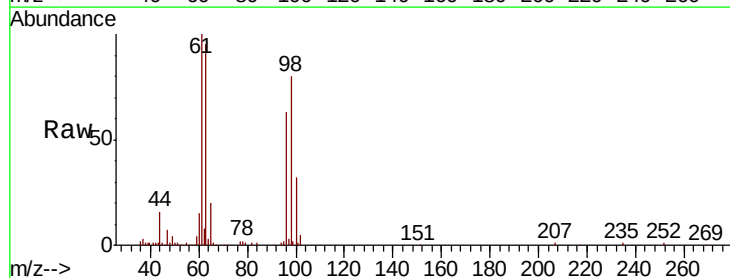
Tgt Ion: 96 Resp: 29672

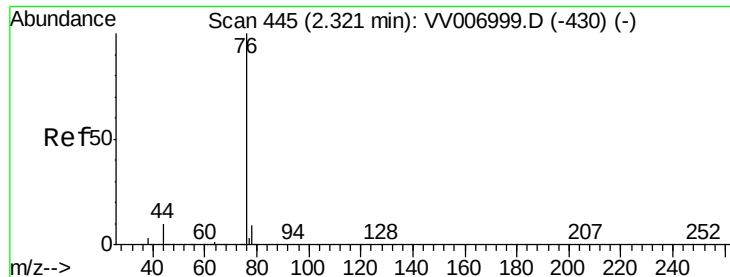
Ion Ratio Lower Upper

96 100

61 159.6 111.6 207.4

63 152.3 84.9 157.7





#14

Carbon disulfide

Concen: 6.38 ug/L

RT: 2.32 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :

MSVOA_V

ClientSampled :

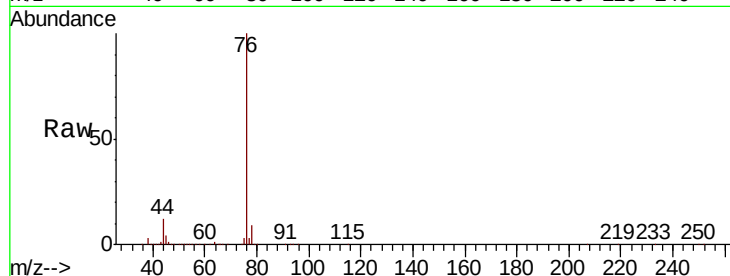
A4ZL3

Tot Ion: 76 Resp: 346758

Ion Ratio Lower Upper

76 100

78 9.4 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VV006999.D (-430) (-)

Ion 78.00 (77.70 to 78.70): VV007002.D (-352) (-)

2.32

250000

200000

150000

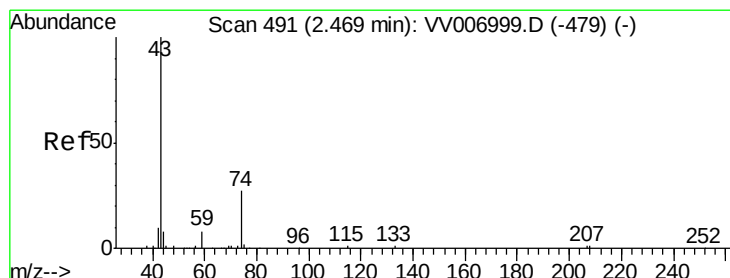
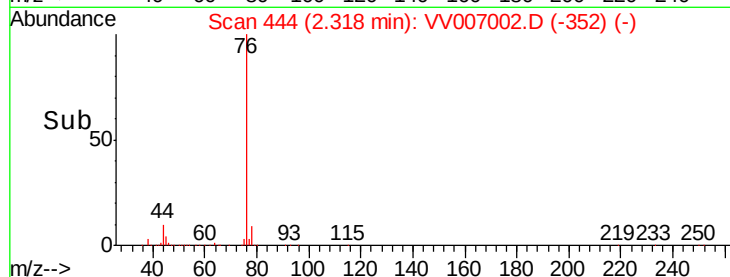
100000

50000

0

2.25 2.30 2.35 2.40

Time-->



#15

Methyl Acetate

Concen: 37.58 ug/L

RT: 2.47 min Scan# 492

Delta R.T. 0.00 min

Lab File: VV007002.D

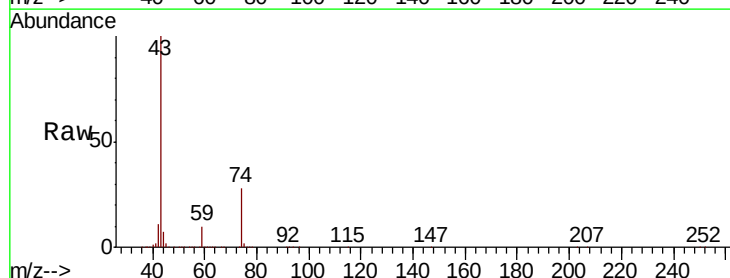
Acq: 13 Aug 2018 13:07

Tgt Ion: 43 Resp: 231741

Ion Ratio Lower Upper

43 100

74 27.9 24.6 37.0



Abundance Ion 43.05 (42.75 to 43.75): VV006999.D (-479) (-)

Ion 74.05 (73.75 to 74.75): VV007002.D (-398) (-)

2.47

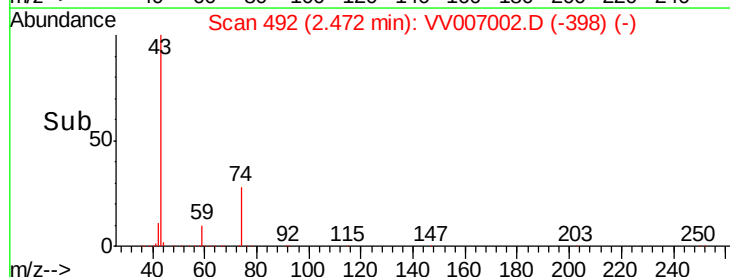
100000

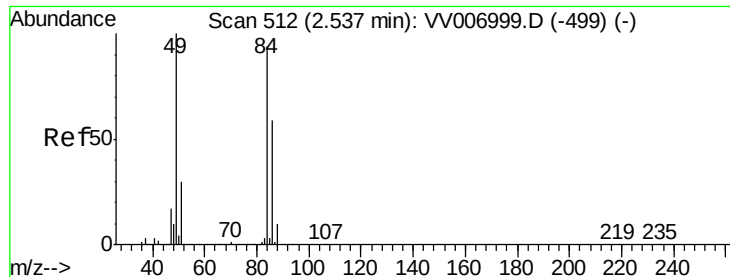
50000

0

2.40 2.45 2.50 2.55 2.60

Time-->

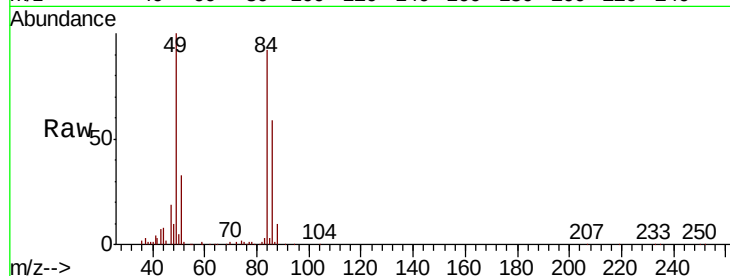




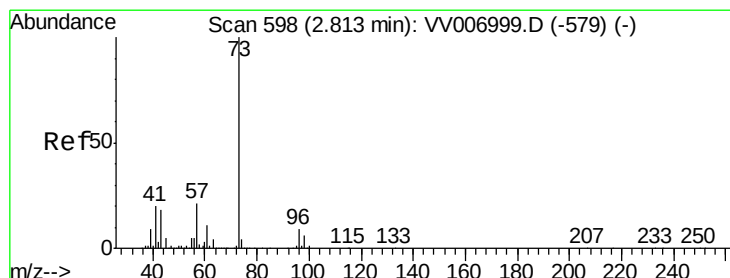
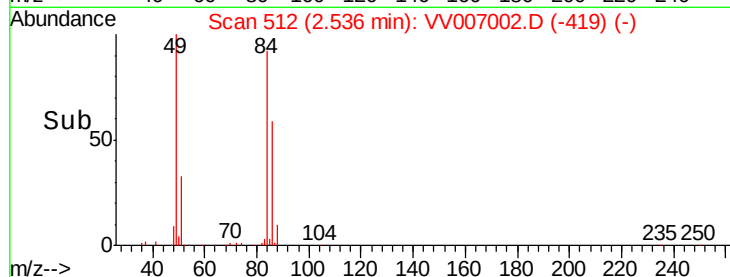
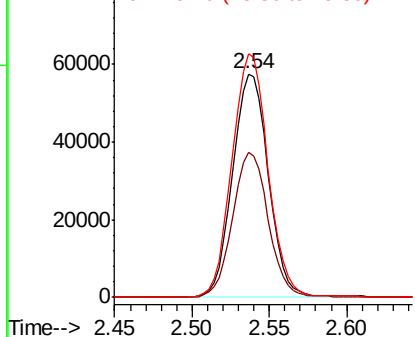
#16
Methvlene chloride
Concen: 4.66 ug/L
RT: 2.54 min Scan# 512
Delta R.T. -0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Instrument :
MSVOA_V
ClientSampleId :
A4ZL3

Tot Ion: 84 Resp: 92574
Ion Ratio Lower Upper
84 100
86 64.8 45.7 84.9
49 108.9 78.8 146.4

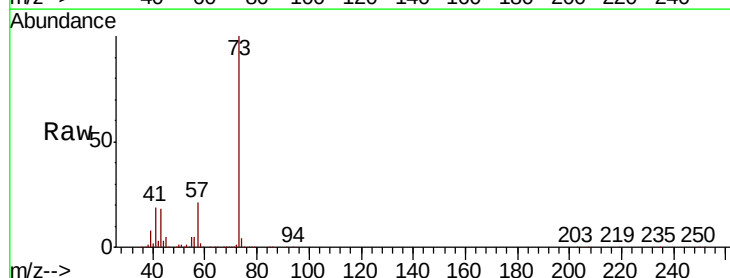


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

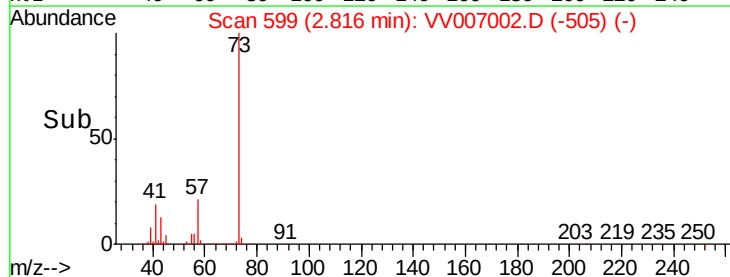
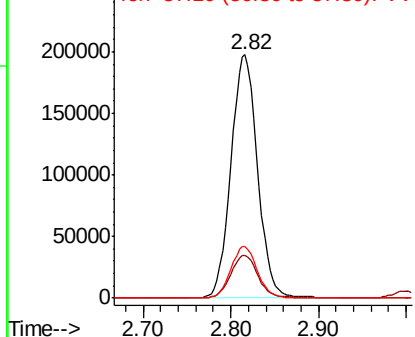


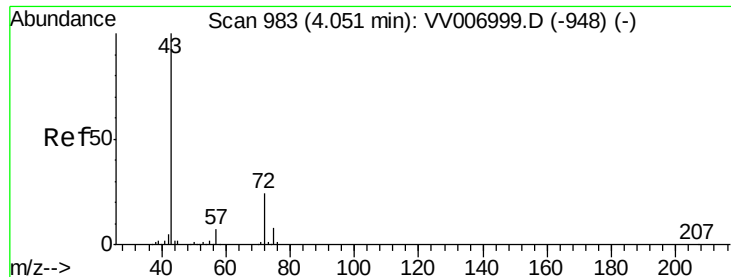
#17
Methyl tert-butyl Ether
Concen: 10.56 ug/L
RT: 2.82 min Scan# 599
Delta R.T. 0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Tgt Ion: 73 Resp: 416802
Ion Ratio Lower Upper
73 100
43 17.7 14.4 21.6
57 20.9 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0





#21

2-Butanone

Concen: 36.81 ug/L

RT: 4.06 min Scan# 986

Delta R.T. 0.01 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :

MSVOA_V

ClientSampled :

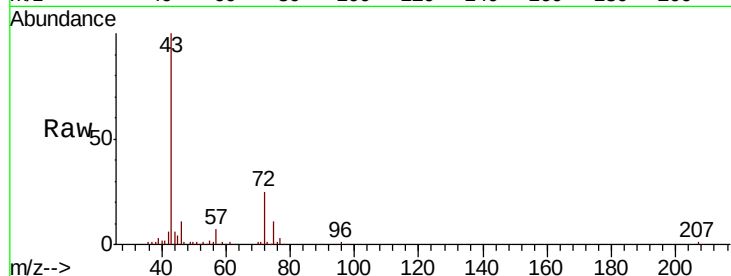
A4ZL3

Tot Ion: 43 Resp: 175103

Ion Ratio Lower Upper

43 100

72 27.1 12.4 37.2

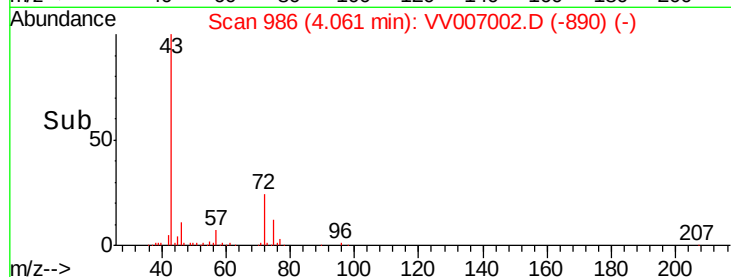


Abundance Ion 43.05 (42.75 to 43.75): VV006999.D (-948) (-)

Ion 72.10 (71.80 to 72.80): VV006999.D (-948) (-)

Time-->

4.06

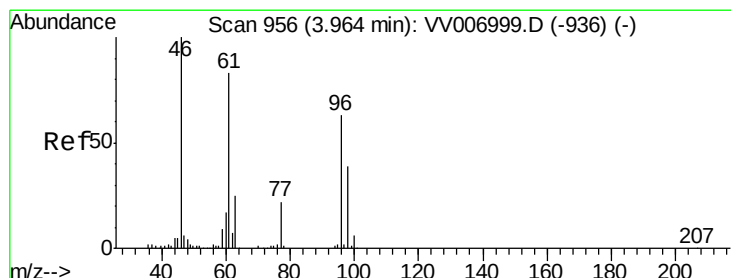


Abundance Ion 43.05 (42.75 to 43.75): VV007002.D (-890) (-)

Ion 72.10 (71.80 to 72.80): VV007002.D (-890) (-)

Time-->

4.06



#22

cis-1,2-Dichloroethene

Concen: 5.99 ug/L

RT: 3.96 min Scan# 956

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

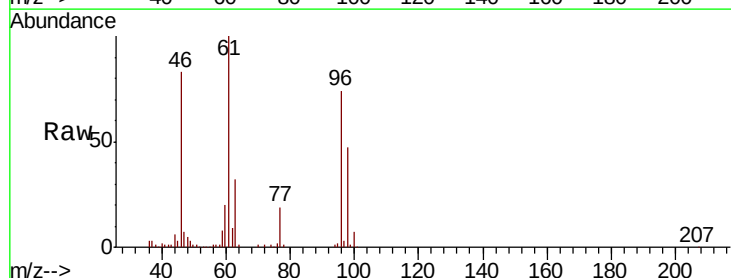
Tgt Ion: 96 Resp: 119816

Ion Ratio Lower Upper

96 100

61 135.5 91.1 169.1

68 0.0 0.0 0.0



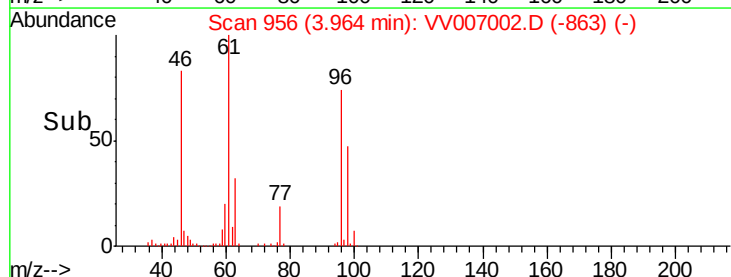
Abundance Ion 96.00 (95.70 to 96.70): VV006999.D (-936) (-)

Ion 61.05 (60.75 to 61.75): VV006999.D (-936) (-)

Ion 68.15 (67.85 to 68.85): VV006999.D (-936) (-)

Time-->

3.96



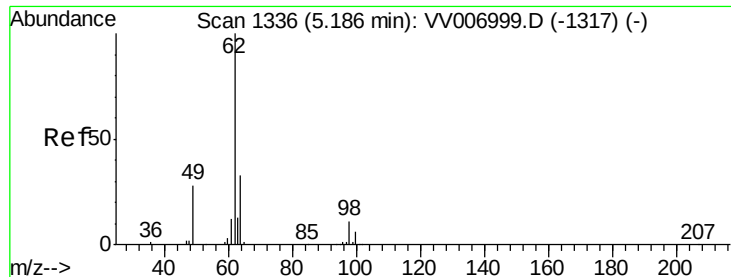
Abundance Ion 96.00 (95.70 to 96.70): VV007002.D (-863) (-)

Ion 61.05 (60.75 to 61.75): VV007002.D (-863) (-)

Ion 68.15 (67.85 to 68.85): VV007002.D (-863) (-)

Time-->

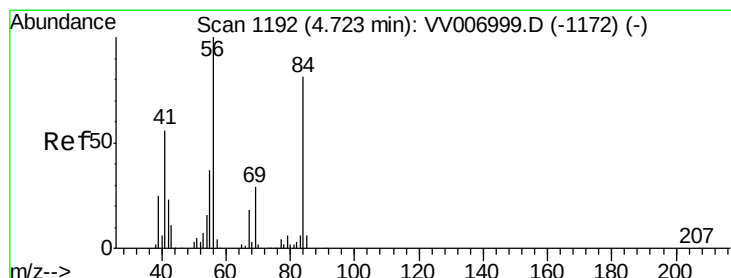
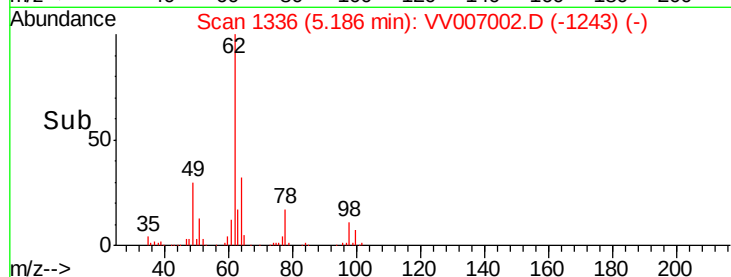
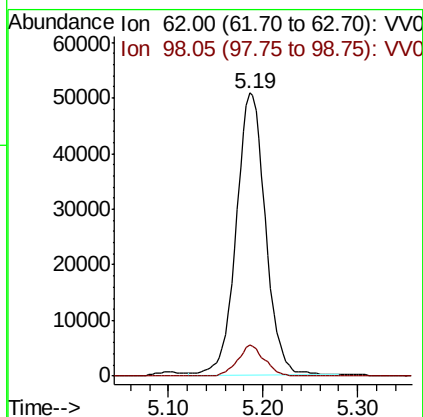
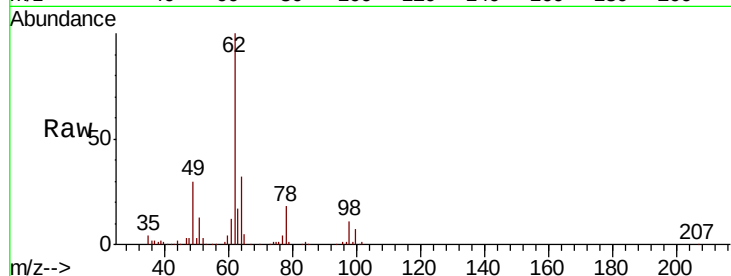
3.96



#27
 1,2-Dichloroethane
 Concen: 5.03 ug/L
 RT: 5.19 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VV007002.D
 Acq: 13 Aug 2018 13:07

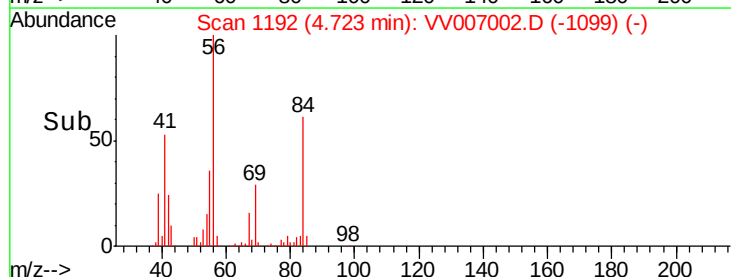
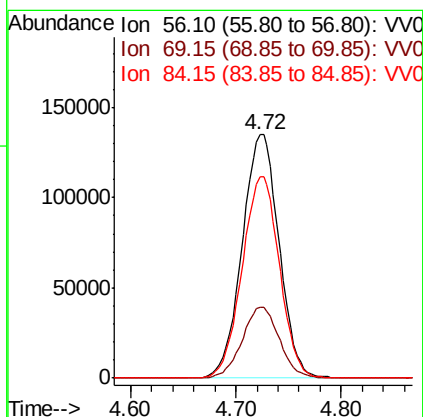
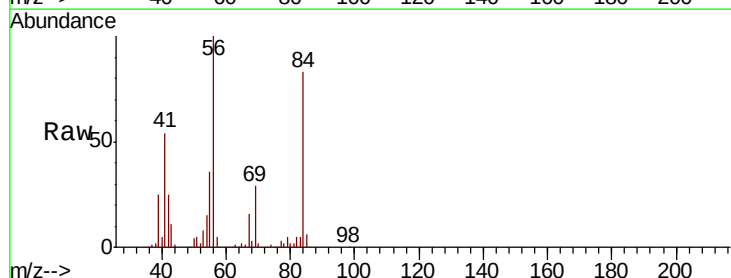
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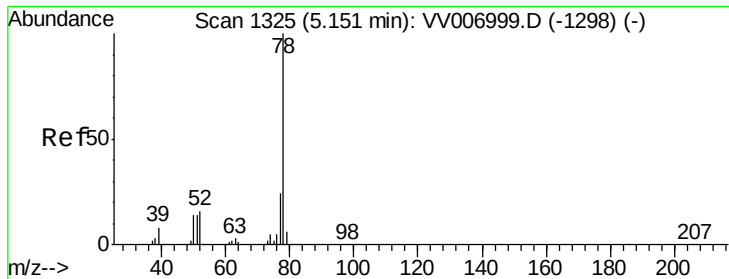
Tot Ion: 62 Resp: 109168
 Ion Ratio Lower Upper
 62 100
 98 10.8 7.6 11.4



#30
 Cyclohexane
 Concen: 10.91 ug/L
 RT: 4.72 min Scan# 1192
 Delta R.T. -0.00 min
 Lab File: VV007002.D
 Acq: 13 Aug 2018 13:07

Tgt Ion: 56 Resp: 328555
 Ion Ratio Lower Upper
 56 100
 69 29.2 23.8 35.6
 84 83.9 67.9 101.9





#33

Benzene

Concen: 5.21 ug/L

RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

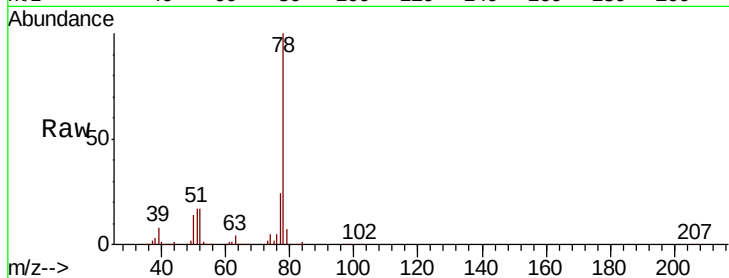
Instrument :

MSVOA_V

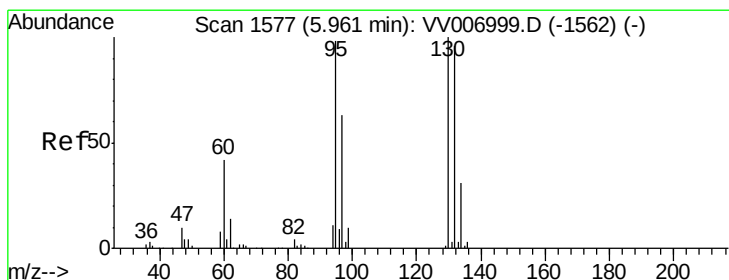
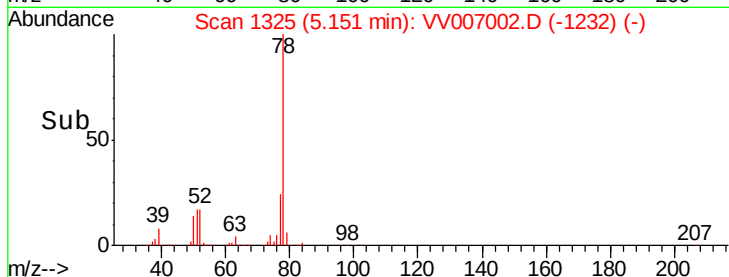
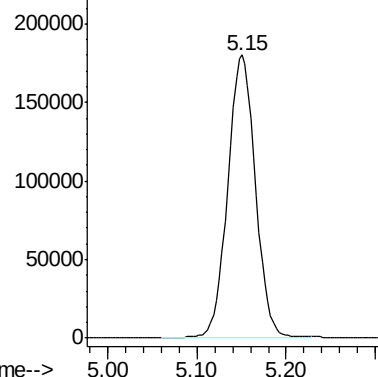
ClientSampleId :

A4ZL3

Tgt Ion: 78 Resp: 391378



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 3.62 ug/L

RT: 5.96 min Scan# 1578

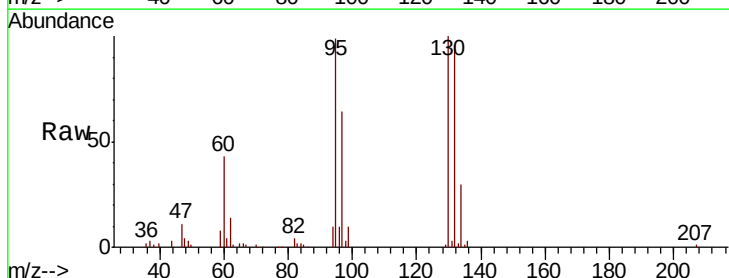
Delta R.T. 0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Tgt Ion: 95 Resp: 65253

Ion	Ratio	Lower	Upper
95	100		
97	64.4	44.8	83.2
132	97.1	65.5	121.6
130	100.7	66.4	123.4

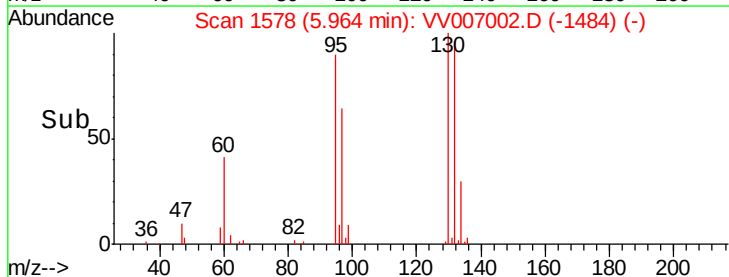
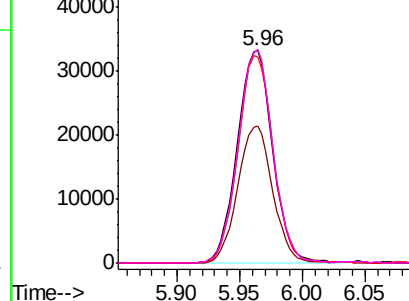


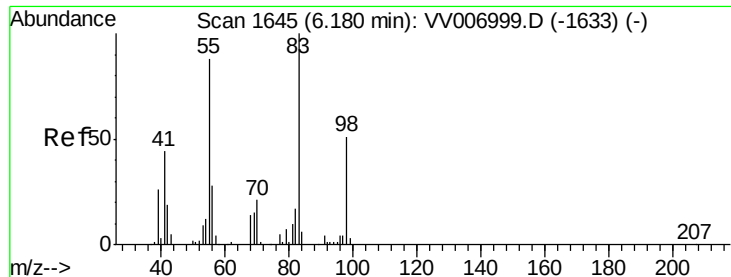
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

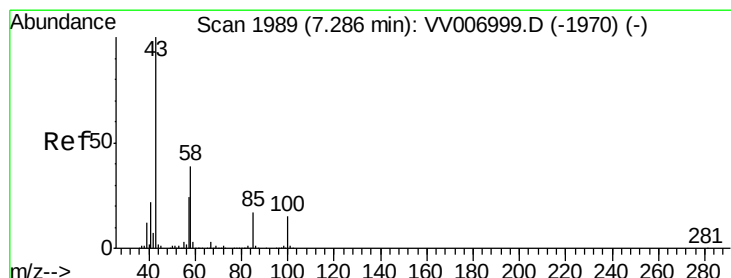
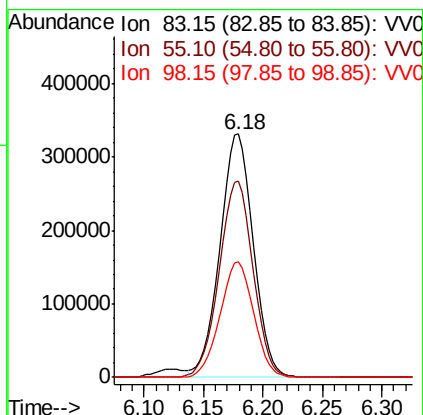
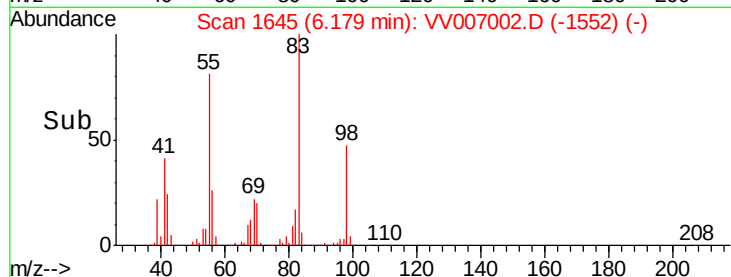
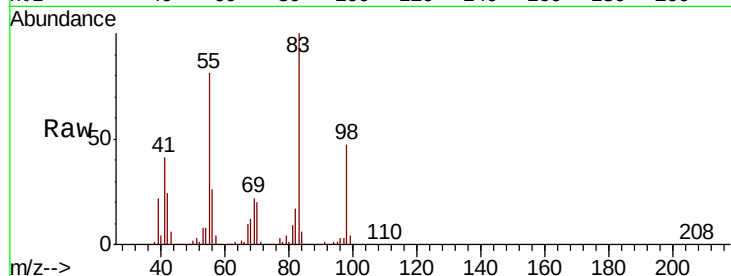




#35
Methylcyclohexane
Concen: 22.23 ug/L
RT: 6.18 min Scan# 1645
Delta R.T. -0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

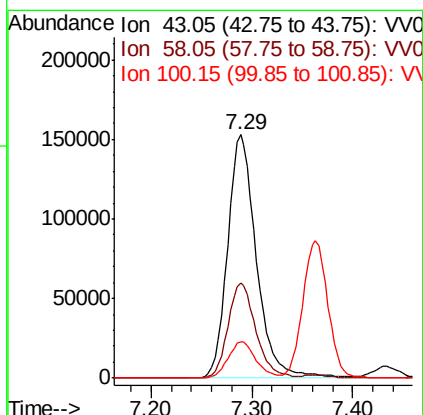
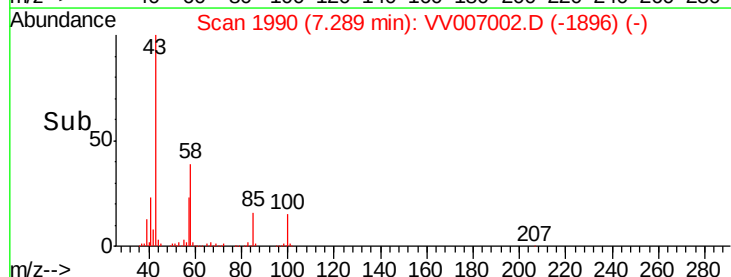
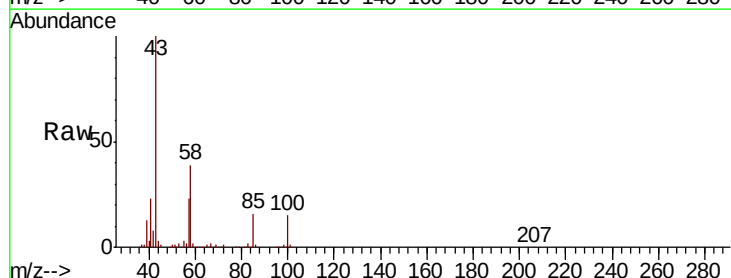
Instrument :
MSVOA_V
ClientSampled :
A4ZL3

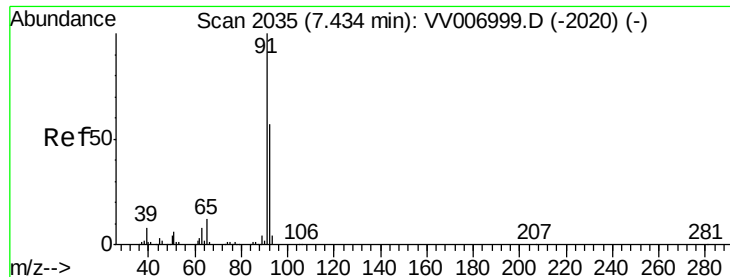
Tot Ion: 83 Resp: 643276
Ion Ratio Lower Upper
83 100
55 82.2 68.1 102.1
98 47.7 37.9 56.9



#40
4-Methyl-2-pentanone
Concen: 27.35 ug/L
RT: 7.29 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Tgt Ion: 43 Resp: 304014
Ion Ratio Lower Upper
43 100
58 37.8 30.7 46.1
100 14.4 11.2 16.8





#42

Toluene

Concen: 17.48 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :

MSVOA_V

ClientSampleId :

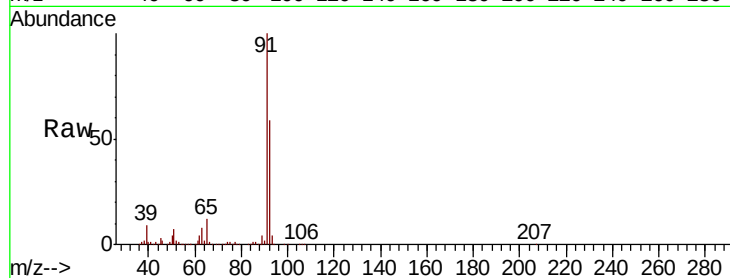
A4ZL3

Tot Ion: 91 Resp: 1262716

Ion Ratio Lower Upper

91 100

92 58.9 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV006999.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VV006999.D (-2020) (-)

7.44

800000

600000

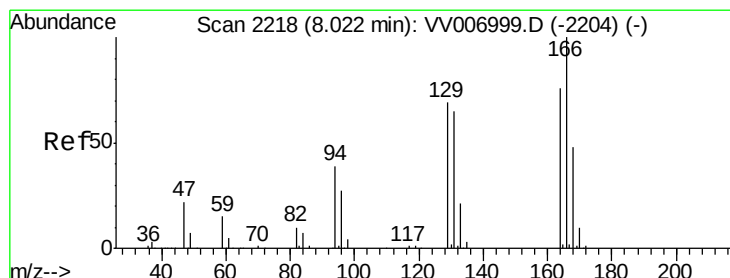
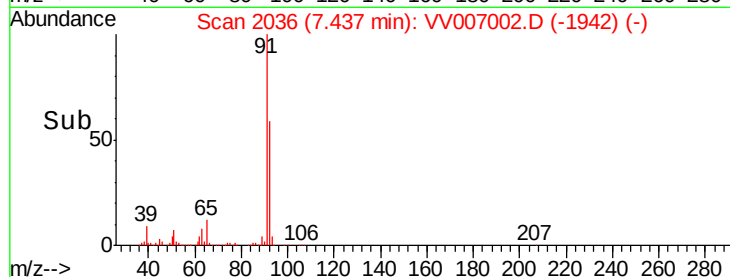
400000

200000

0

7.40 7.50 7.60

Time-->



#47

Tetrachloroethene

Concen: 4.82 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Tgt Ion: 164 Resp: 70489

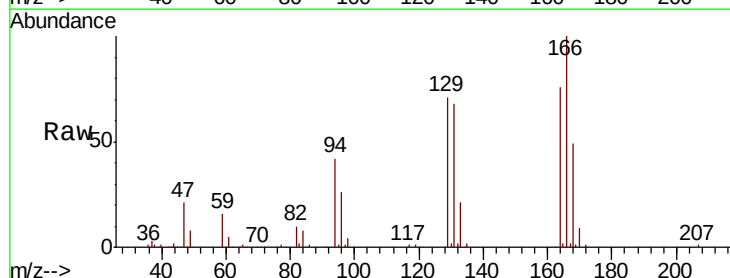
Ion Ratio Lower Upper

164 100

129 93.2 65.9 122.3

131 88.8 64.2 119.2

166 131.1 89.4 166.0



Abundance Ion 163.90 (163.60 to 164.60): VV006999.D (-2204) (-)

Ion 128.95 (128.65 to 129.65): VV006999.D (-2204) (-)

Ion 130.95 (130.65 to 131.65): VV006999.D (-2204) (-)

Ion 165.90 (165.60 to 166.60): VV006999.D (-2204) (-)

80000

60000

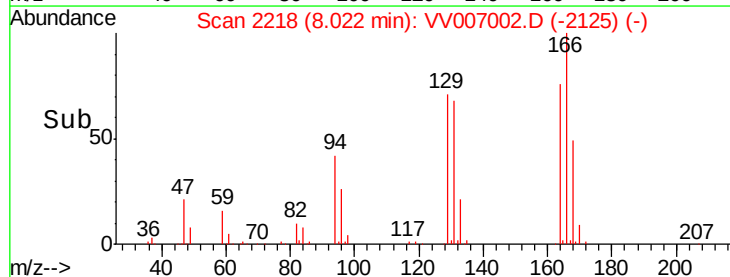
40000

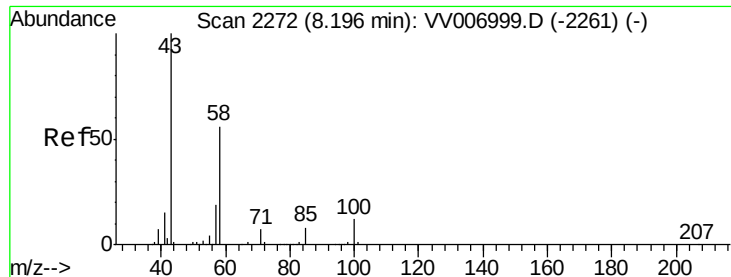
20000

0

7.95 8.00 8.05 8.10

Time-->

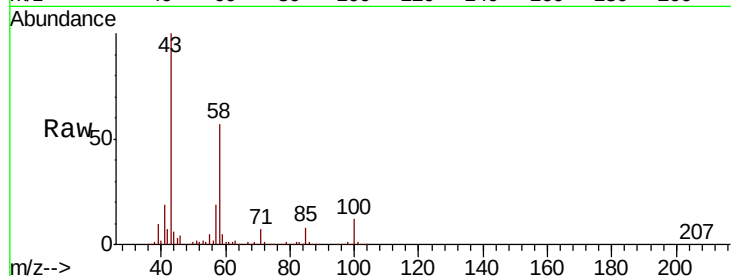




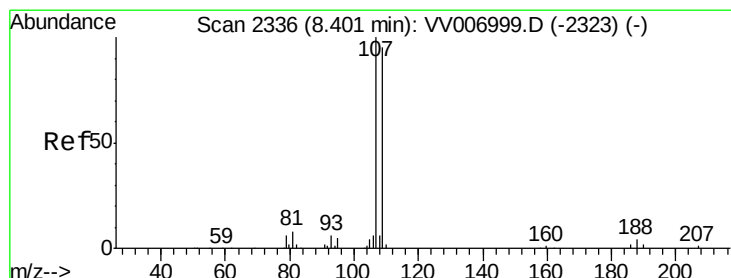
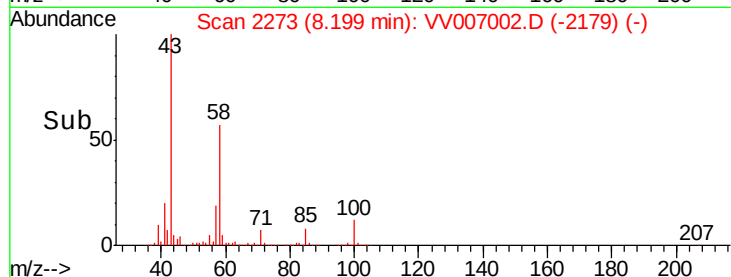
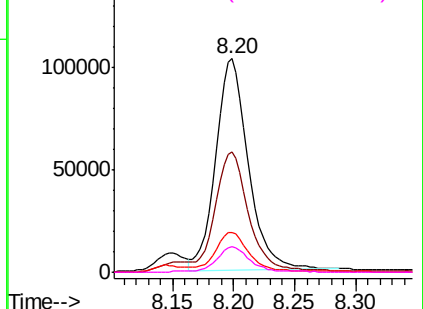
#48
2-Hexanone
Concen: 24.75 ug/L
RT: 8.20 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Instrument :
MSVOA_V
ClientSampleId :
A4ZL3

Tot Ion:	43	Resp:	194090
Ion	Ratio	Lower	Upper
43	100		
58	56.1	44.2	66.2
57	19.1	14.8	22.2
100	12.4	8.8	13.2

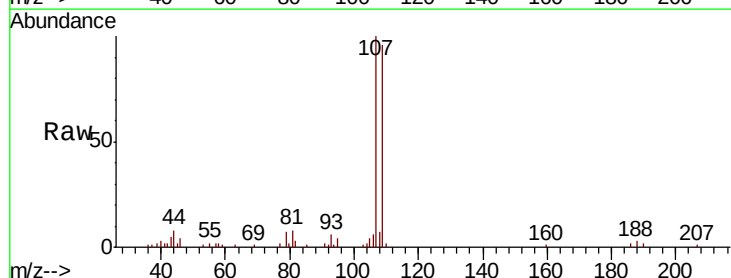


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

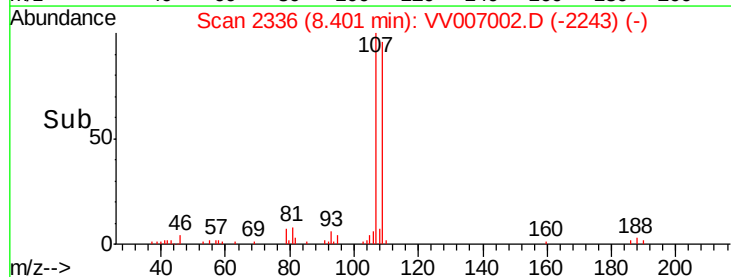
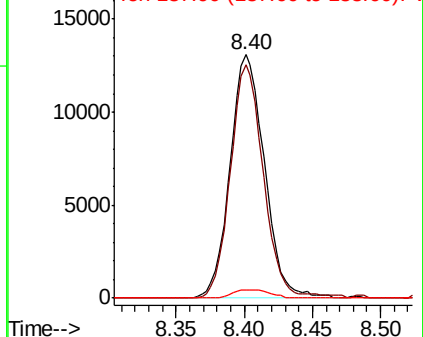


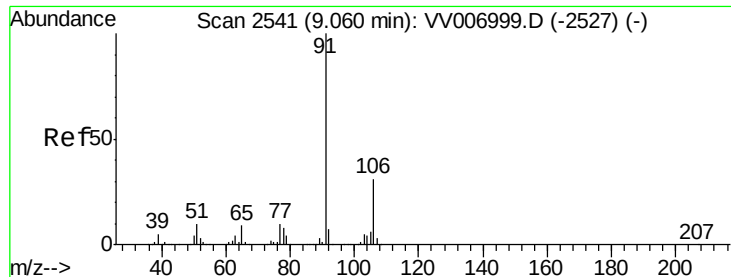
#50
1,2-Dibromoethane
Concen: 2.03 ug/L
RT: 8.40 min Scan# 2336
Delta R.T. -0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Tgt Ion:	107	Resp:	22932
Ion	Ratio	Lower	Upper
107	100		
109	96.0	64.1	119.1
188	3.2	4.0	6.0#



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





#52

Ethylbenzene

Concen: 10.32 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :

MSVOA_V

ClientSampleId :

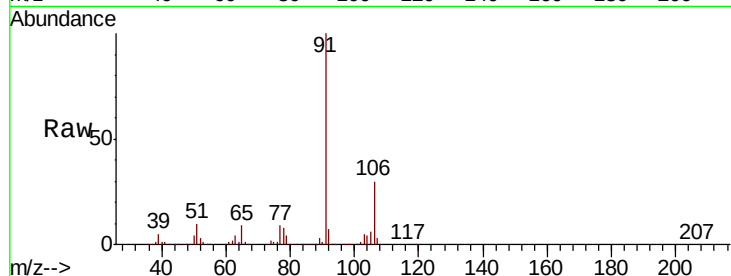
A4ZL3

Tot Ion: 91 Resp: 744623

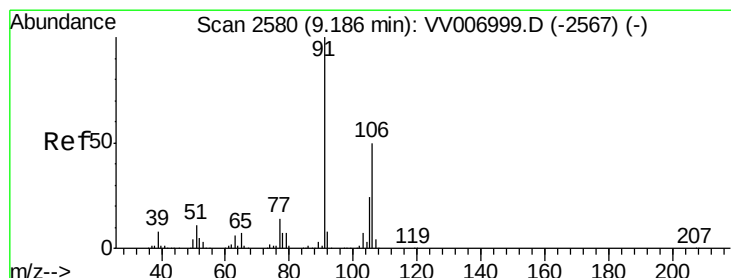
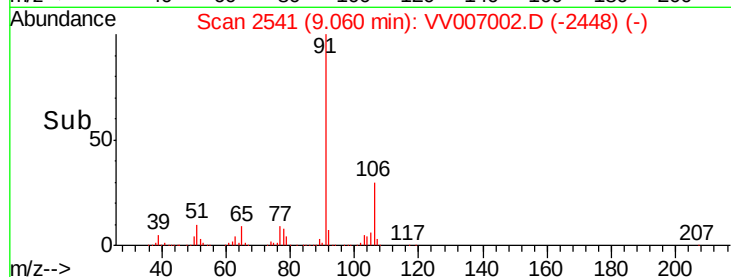
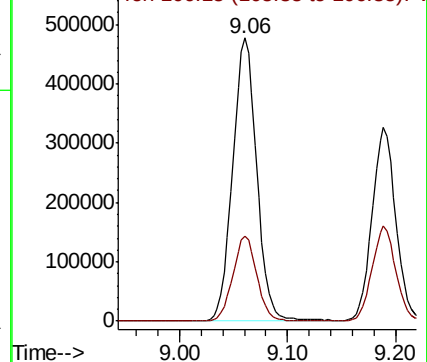
Ion Ratio Lower Upper

91 100

106 30.2 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VV006999.D (-2527) (-)



#53

m,p-xylene

Concen: 9.04 ug/L

RT: 9.19 min Scan# 2581

Delta R.T. 0.00 min

Lab File: VV007002.D

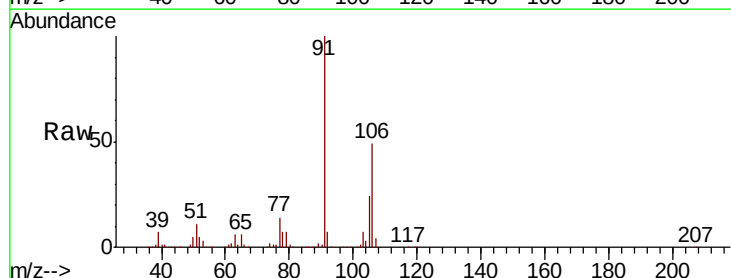
Acq: 13 Aug 2018 13:07

Tgt Ion: 106 Resp: 242991

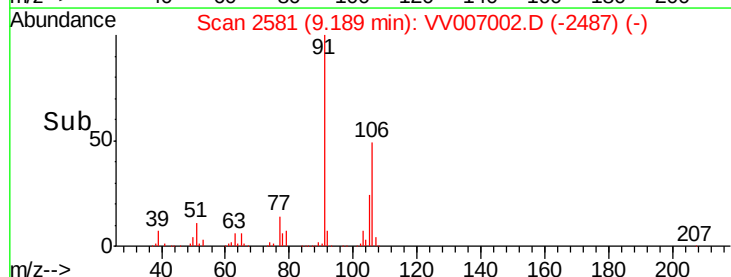
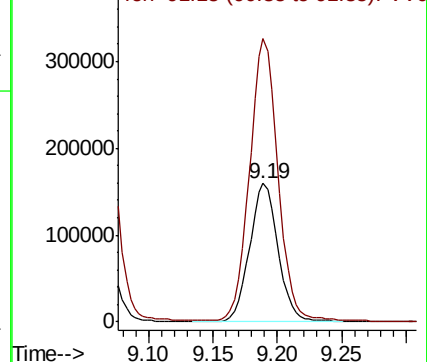
Ion Ratio Lower Upper

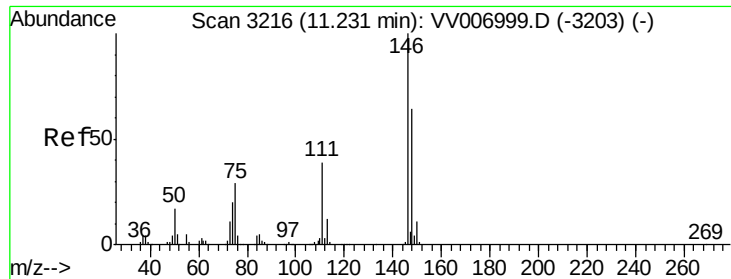
106 100

91 204.3 141.6 263.0



Abundance Ion 106.15 (105.85 to 106.85): VV006999.D (-2567) (-)





#62

1,3-Dichlorobenzene

Concen: 6.27 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :

MSVOA_V

ClientSampleId :

A4ZL3

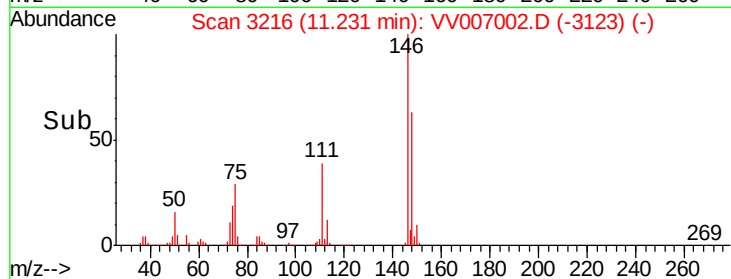
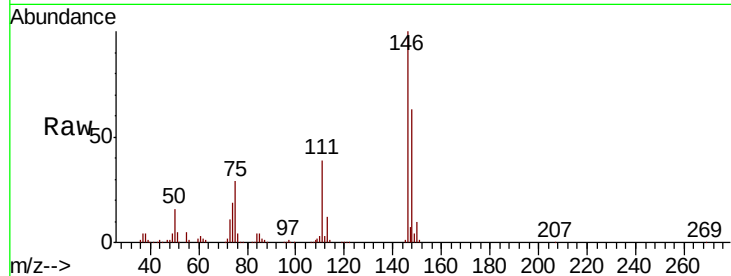
Tot Ion:146 Resp: 195220

Ion Ratio Lower Upper

146 100

111 38.9 28.1 52.3

148 62.8 44.2 82.2



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

