

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 :

Quant Time: Aug 14 05:36:14 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

					Ovalue
3) Chloromethane	1.25	50	4716	0.220 ug/L	99
6) Bromomethane	1.54	94	10865	2.254 ug/L	92
12) 1,1-Dichloroethene	2.14	96	29672	1.803 ug/L	88
13) Acetone	2.21	43	141189	64.435 ug/L	82
14) Carbon disulfide	2.32	76	346758	6.381 ug/L	100
15) Methyl Acetate	2.47	43	231741	37.578 ug/L	95
16) Methylene chloride	2.54	84	92574	4.664 ug/L	98
17) Methyl tert-butyl Ether	2.82	73	416802	10.560 ug/L	98
21) 2-Butanone	4.06	43	175103	36.806 ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	119816	5.990 ug/L	95
27) 1,2-Dichloroethane	5.19	62	109168	5.028 ug/L	96
30) Cyclohexane	4.72	56	328555	10.908 ug/L	99
33) Benzene	5.15	78	391378	5.205 ug/L	100
34) Trichloroethene	5.96	95	65253	3.619 ug/L	96
35) Methylcyclohexane	6.18	83	643276	22.225 ug/L	98
37) 1,2-Dichloropropane	6.18	63	6715	0.326 ug/L	97
40) 4-Methyl-2-pentanone	7.29	43	304014	27.346 ug/L	99

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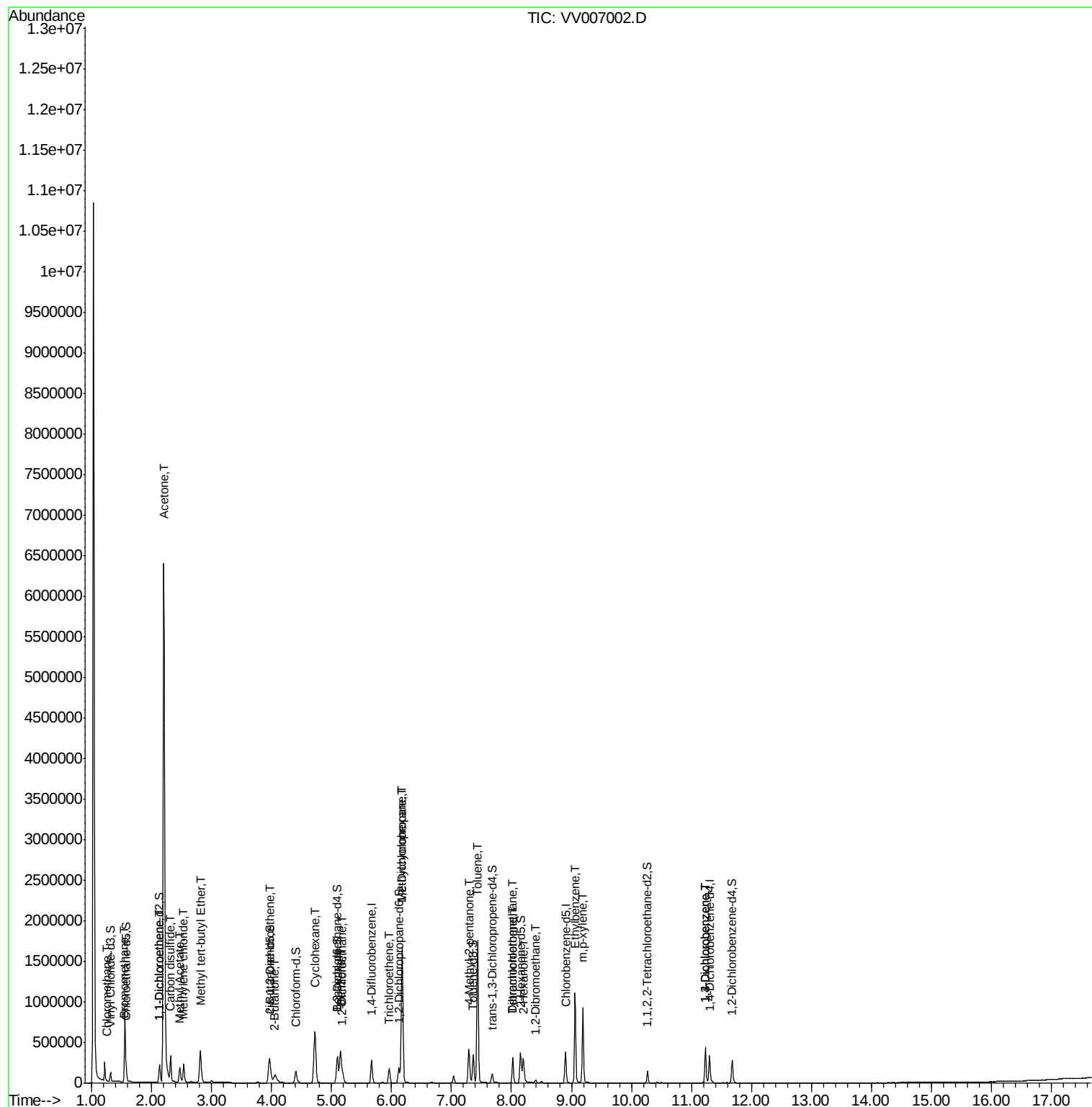
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.44	91	1262716	17.477	ug/L	98
47) Tetrachloroethene	8.02	164	70489	4.822	ug/L	98
48) 2-Hexanone	8.20	43	194090	24.754	ug/L	98
49) Dibromochloromethane	8.02	129	60437	4.303	ug/L #	11
50) 1,2-Dibromoethane	8.40	107	22932	2.028	ug/L #	95
52) Ethylbenzene	9.06	91	744623	10.321	ug/L	100
53) m,p-xylene	9.19	106	242991	9.035	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	195220	6.273	ug/L	99
63) 1,4-Dichlorobenzene	11.23	146	195220	6.120	ug/L	97

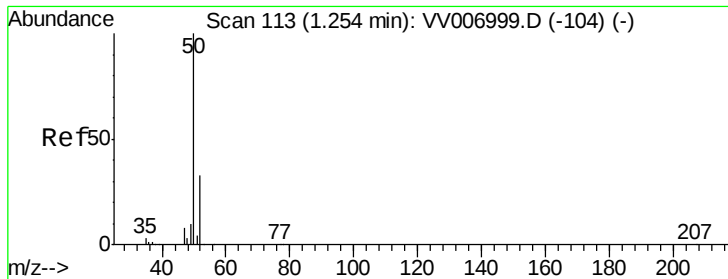
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.220 ug/L

RT: 1.25 min Scan# 112

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

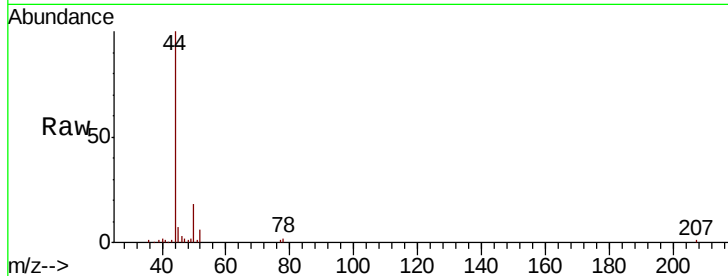
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 4716

Ion Ratio Lower Upper

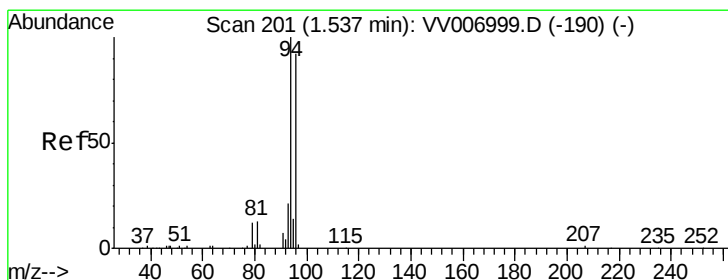
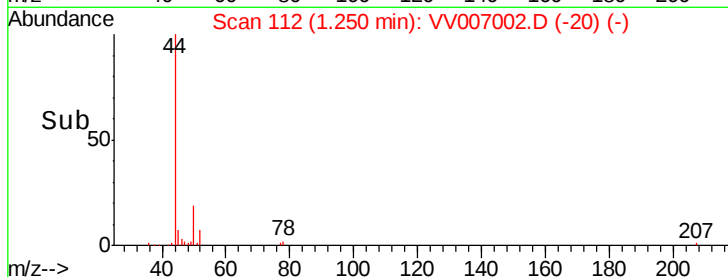
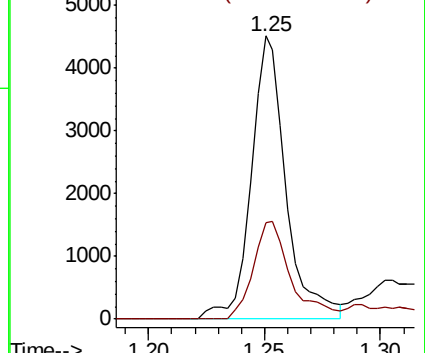
50 100

52 34.3 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VV006999.D (-104) (-)

Ion 52.05 (51.75 to 52.75): VV007002.D (-20) (-)



#6

Bromomethane

Concen: 2.254 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV007002.D

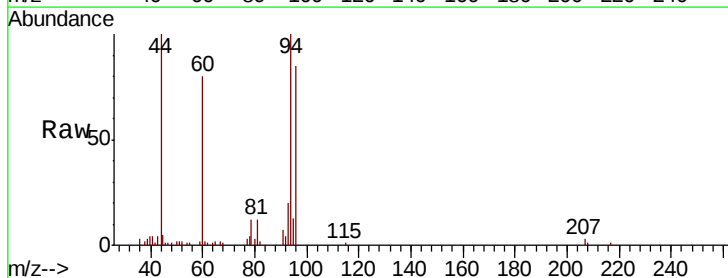
Acq: 13 Aug 2018 13:07

Tgt Ion: 94 Resp: 10865

Ion Ratio Lower Upper

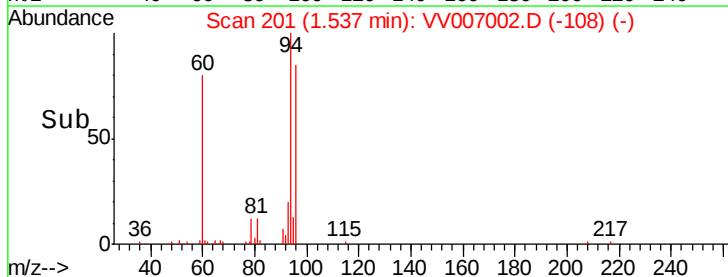
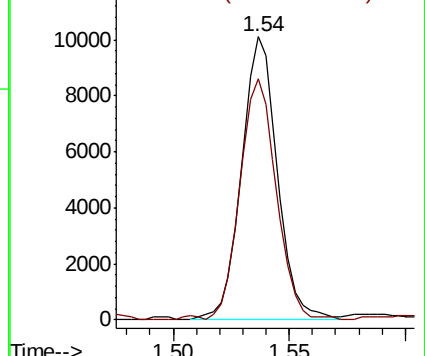
94 100

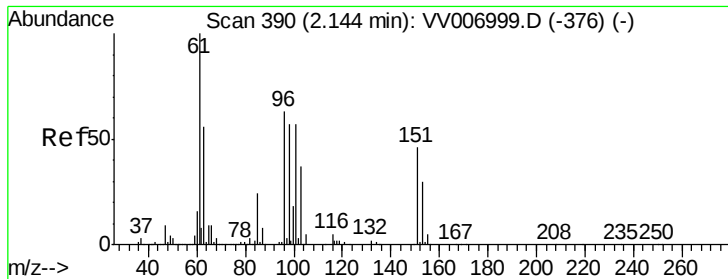
96 85.2 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VV006999.D (-190) (-)

Ion 96.00 (95.70 to 96.70): VV007002.D (-108) (-)





#12

1,1-Dichloroethene

Concen: 1.803 ug/L

RT: 2.14 min Scan# 390

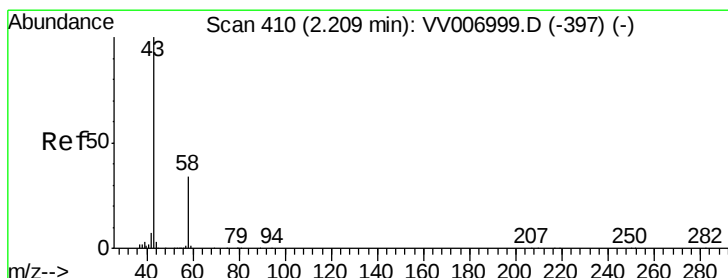
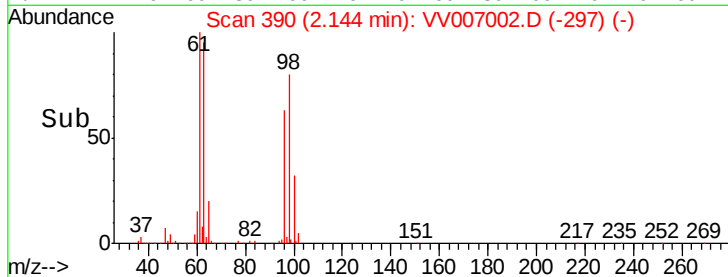
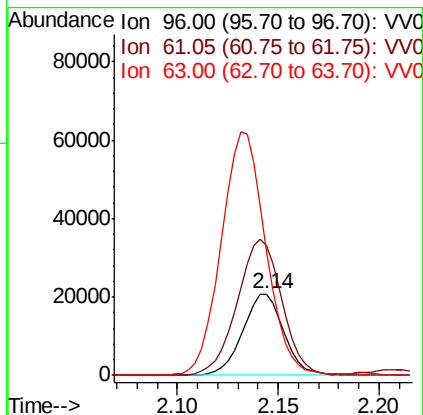
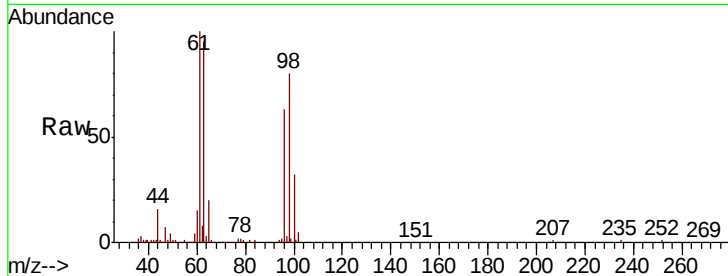
Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:	96	Resp:	29672
Ion	Ratio	Lower	Upper
96	100		
61	159.6	111.6	207.4
63	152.3	84.9	157.7



#13

Acetone

Concen: 64.435 ug/L

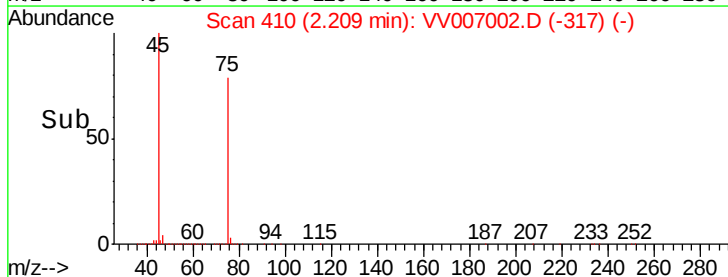
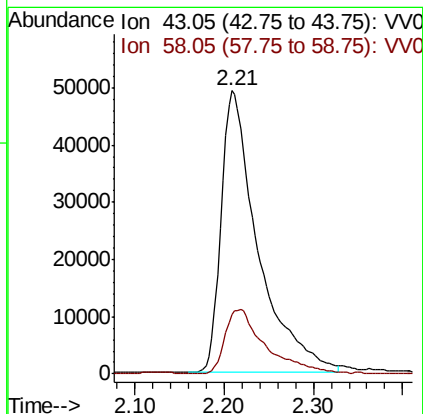
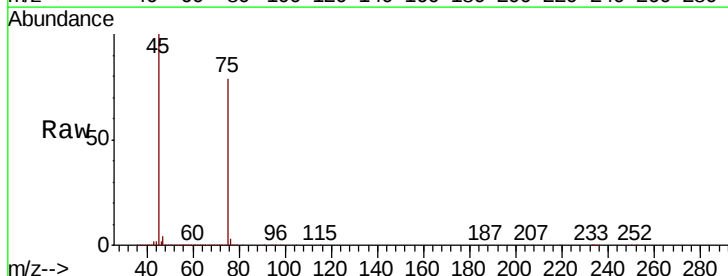
RT: 2.21 min Scan# 410

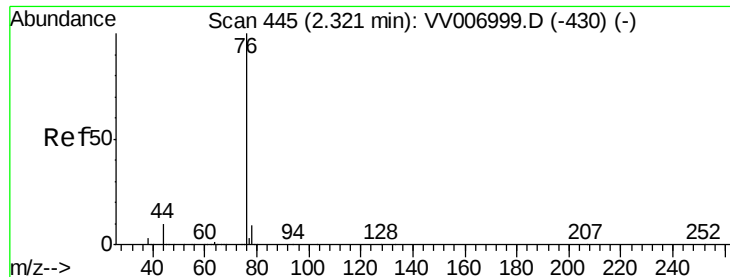
Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Tgt Ion:	43	Resp:	141189
Ion	Ratio	Lower	Upper
43	100		
58	25.4	0.0	71.4





#14

Carbon disulfide

Concen: 6.381 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

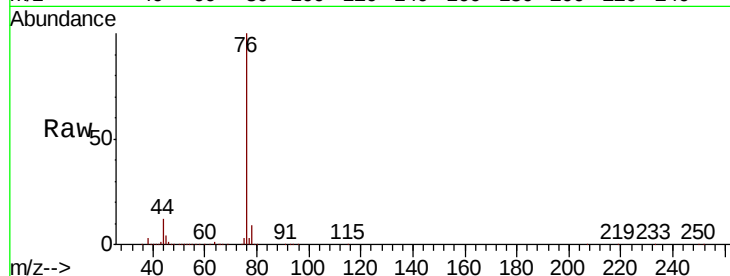
ClientSampleId :

Tot Ion: 76 Resp: 346758

Ion Ratio Lower Upper

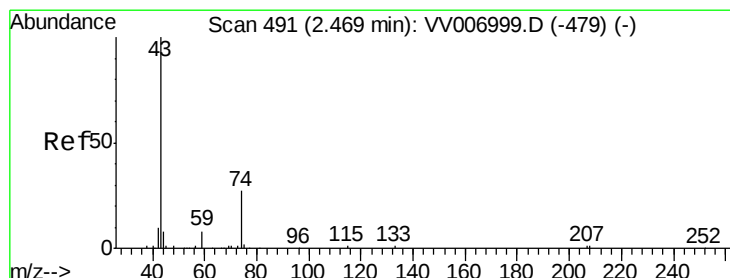
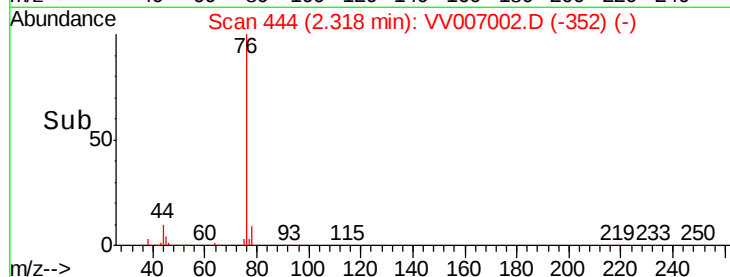
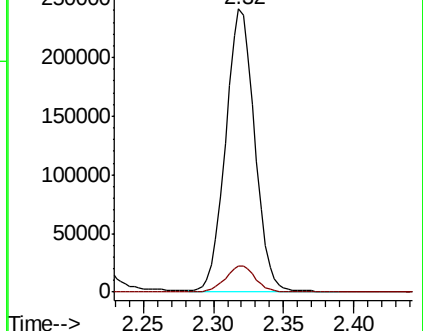
76 100

78 9.4 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#15

Methyl Acetate

Concen: 37.578 ug/L

RT: 2.47 min Scan# 492

Delta R.T. 0.00 min

Lab File: VV007002.D

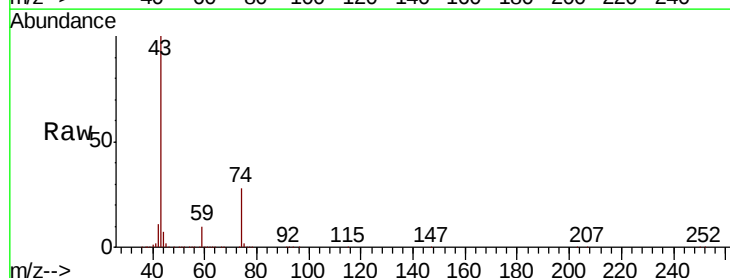
Acq: 13 Aug 2018 13:07

Tgt Ion: 43 Resp: 231741

Ion Ratio Lower Upper

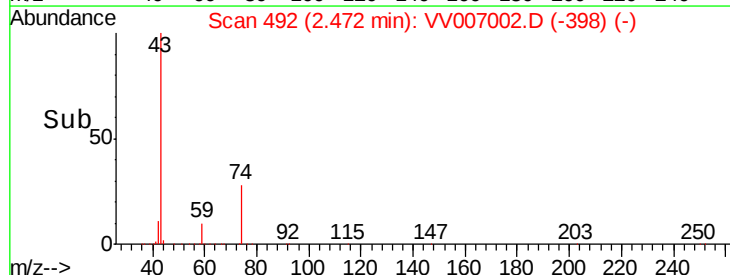
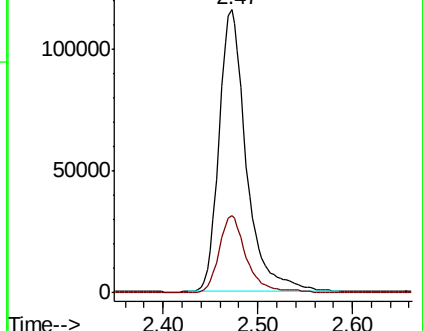
43 100

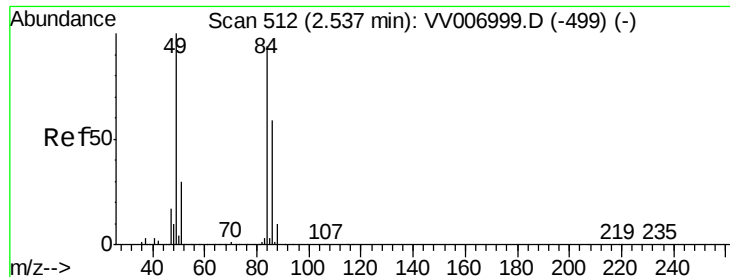
74 27.9 24.6 37.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

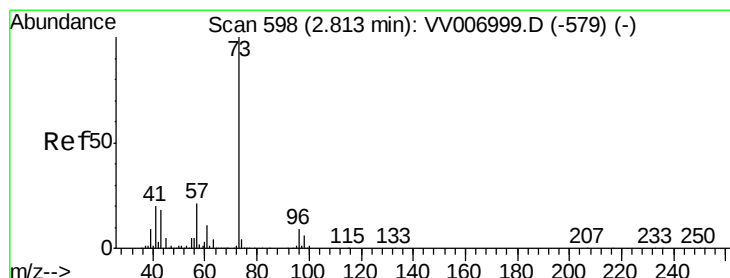
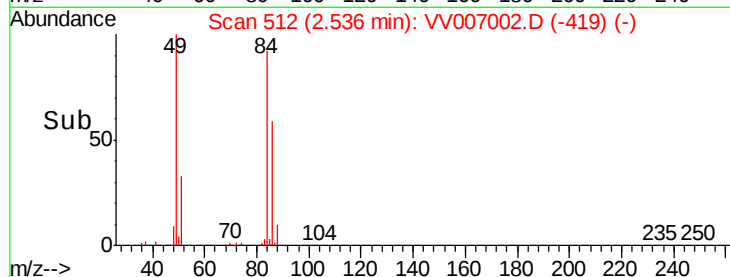
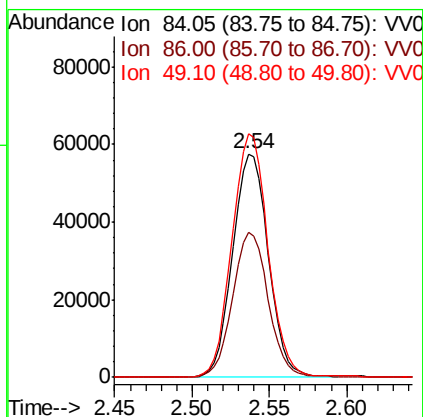
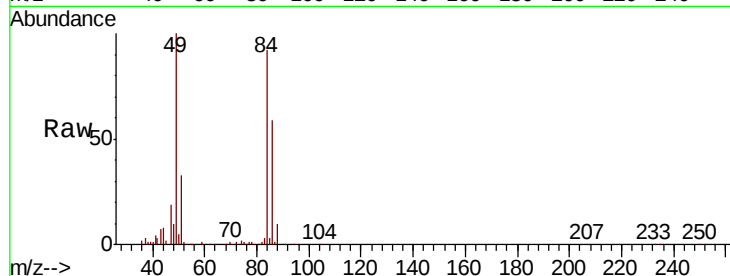




#16
Methvlene chloride
Concen: 4.664 ug/L
RT: 2.54 min Scan# 512
Delta R.T. -0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

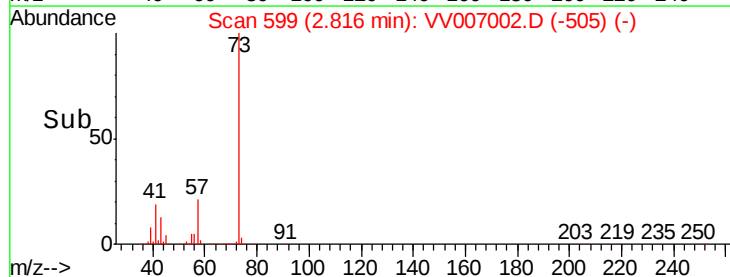
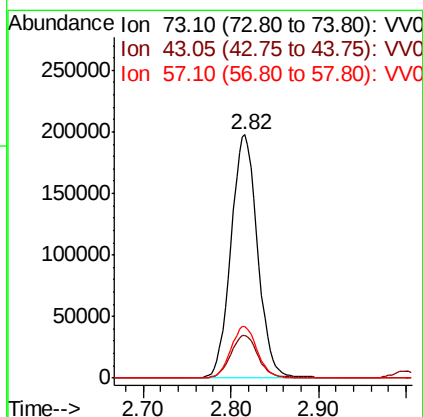
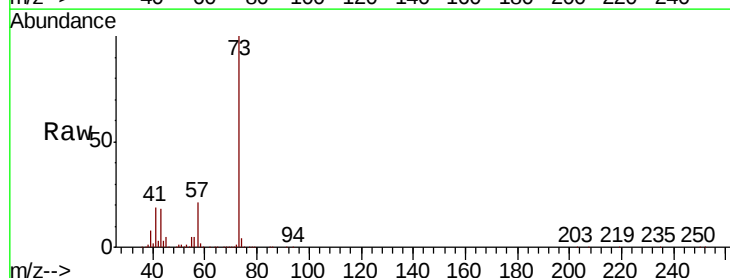
Instrument :
MSVOA_V
ClientSampleId :

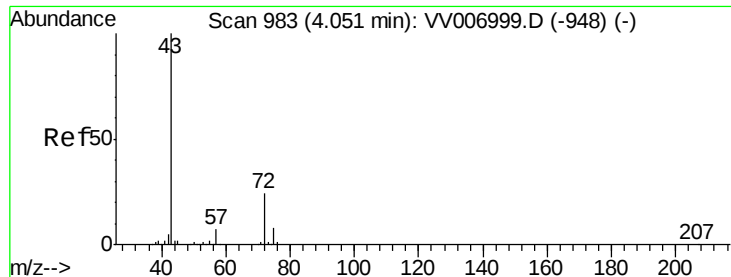
Tot Ion: 84 Resp: 92574
Ion Ratio Lower Upper
84 100
86 64.8 45.7 84.9
49 108.9 78.8 146.4



#17
Methyl tert-butyl Ether
Concen: 10.560 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





#21

2-Butanone

Concen: 36.806 ug/L

RT: 4.06 min Scan# 986

Delta R.T. 0.01 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

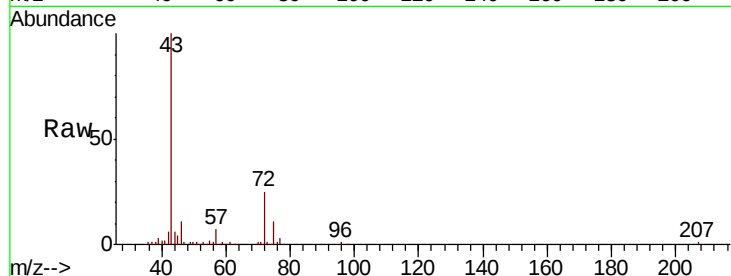
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 175103

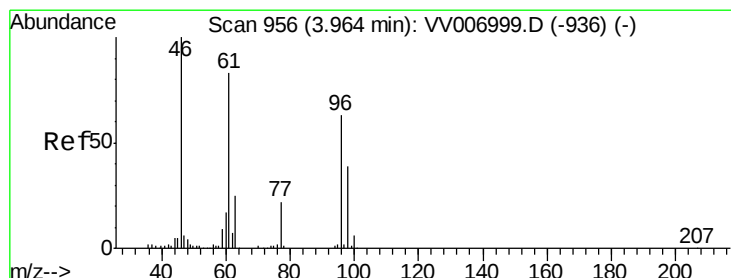
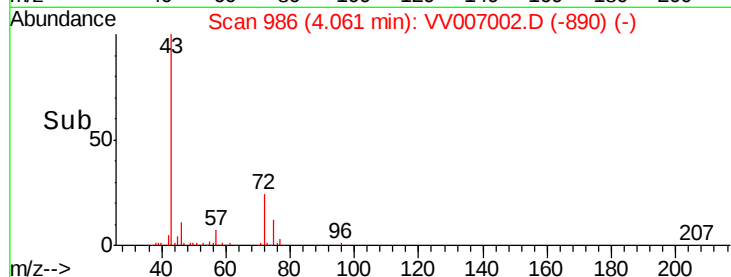
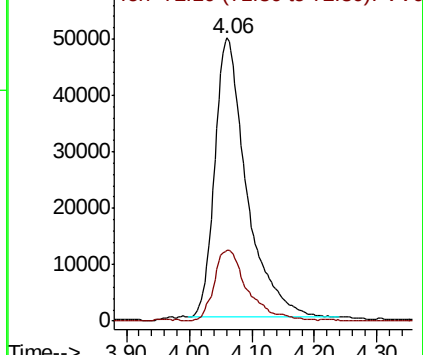
Ion Ratio Lower Upper

43 100

72 27.1 12.4 37.2



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 72.10 (71.80 to 72.80): VV0



#22

cis-1,2-Dichloroethene

Concen: 5.990 ug/L

RT: 3.96 min Scan# 956

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

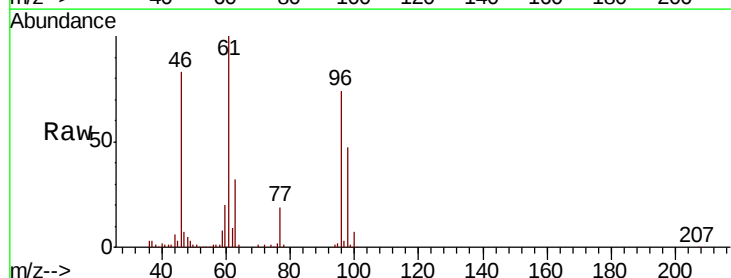
Tgt Ion: 96 Resp: 119816

Ion Ratio Lower Upper

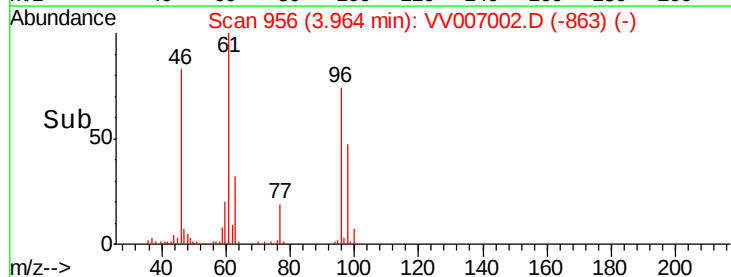
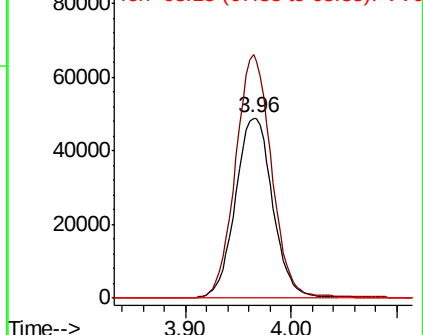
96 100

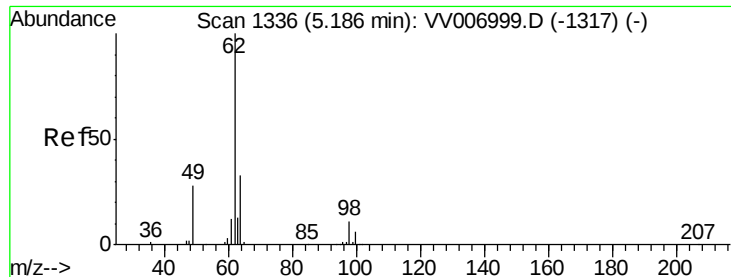
61 135.5 91.1 169.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0





#27

1,2-Dichloroethane

Concen: 5.028 ug/L

RT: 5.19 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

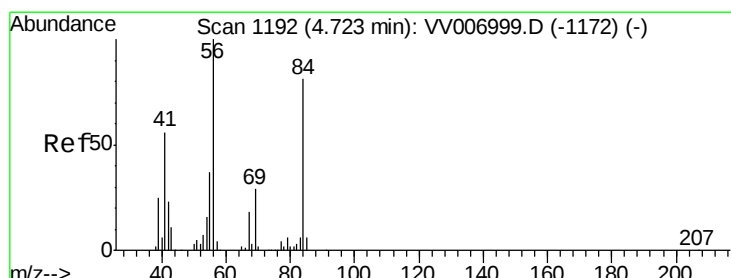
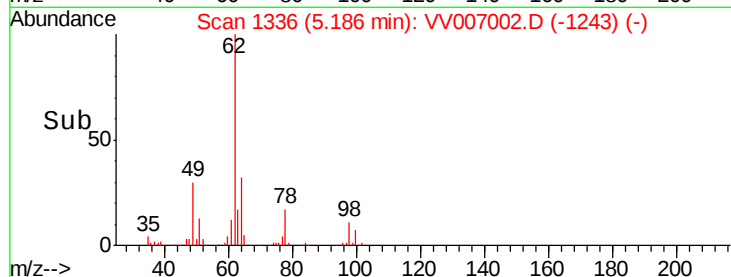
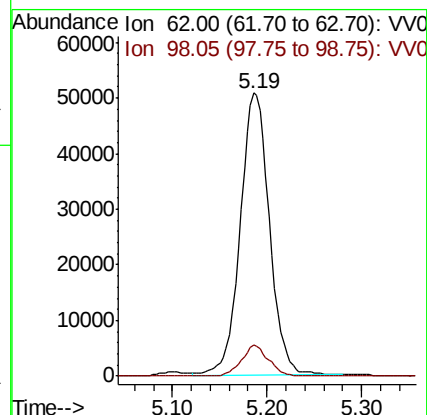
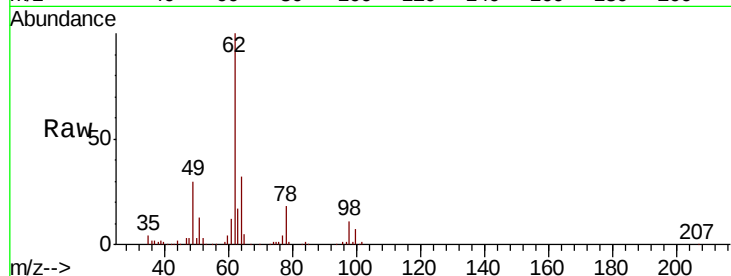
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 109168

Ion Ratio Lower Upper

62 100

98 10.8 7.6 11.4



#30

Cyclohexane

Concen: 10.908 ug/L

RT: 4.72 min Scan# 1192

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

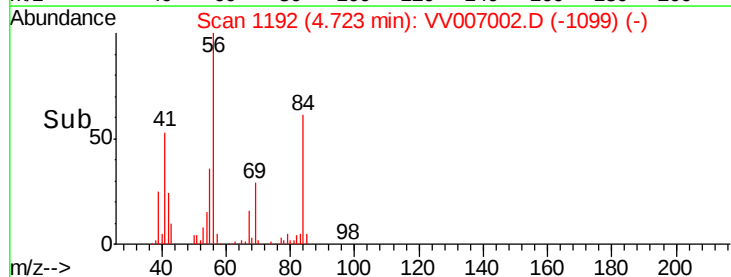
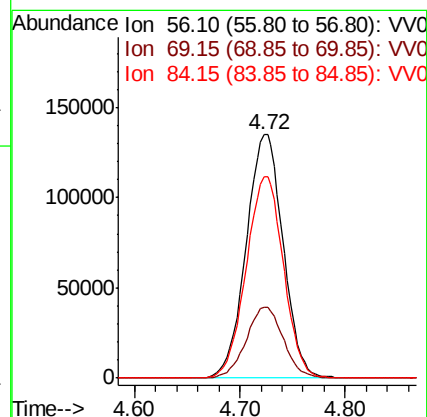
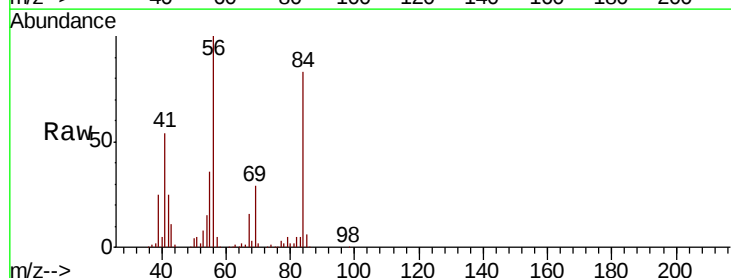
Tgt Ion: 56 Resp: 328555

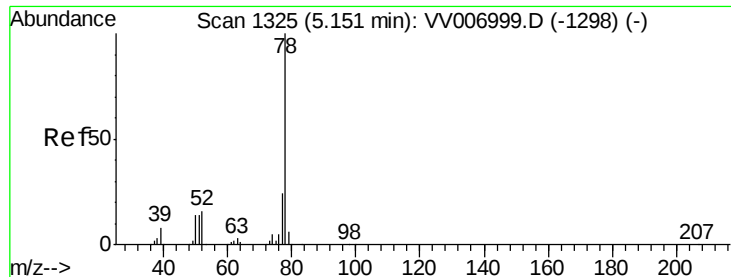
Ion Ratio Lower Upper

56 100

69 29.2 23.8 35.6

84 83.9 67.9 101.9

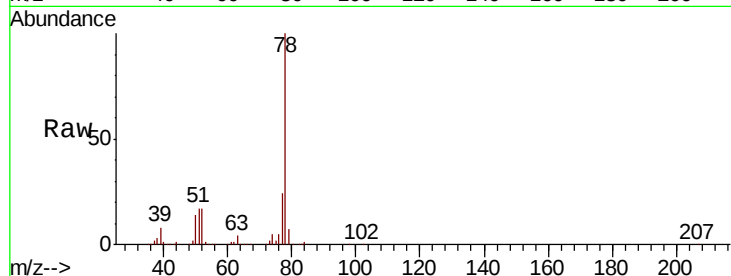




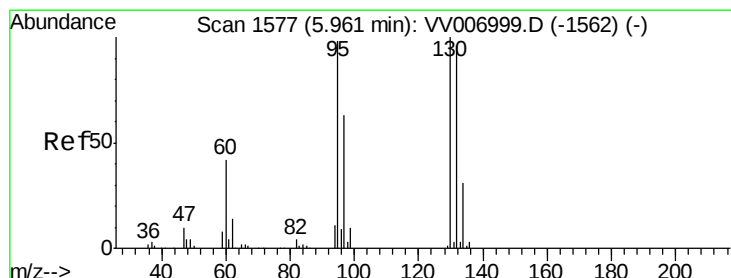
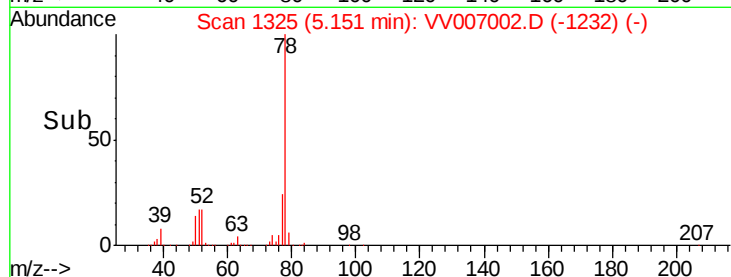
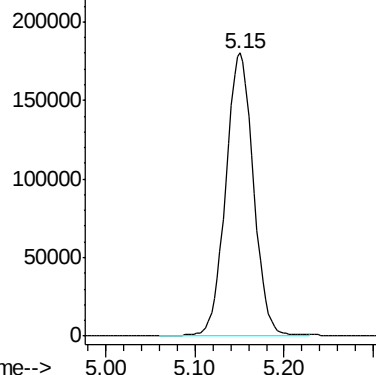
#33
Benzene
Concen: 5.205 ug/L
RT: 5.15 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 391378



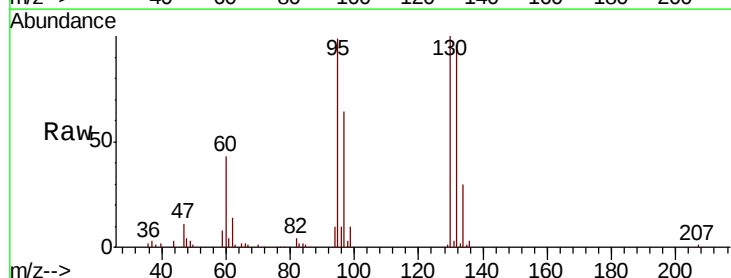
Abundance Ion 78.10 (77.80 to 78.80): VV0



#34
Trichloroethene
Concen: 3.619 ug/L
RT: 5.96 min Scan# 1578
Delta R.T. 0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

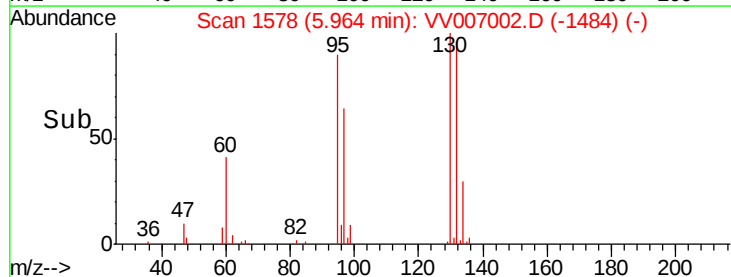
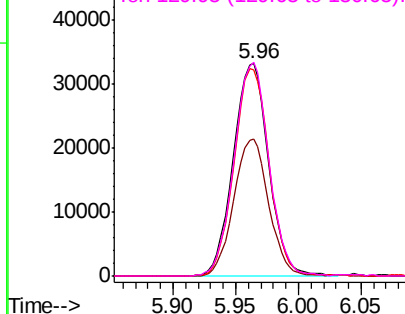
Tgt Ion: 95 Resp: 65253

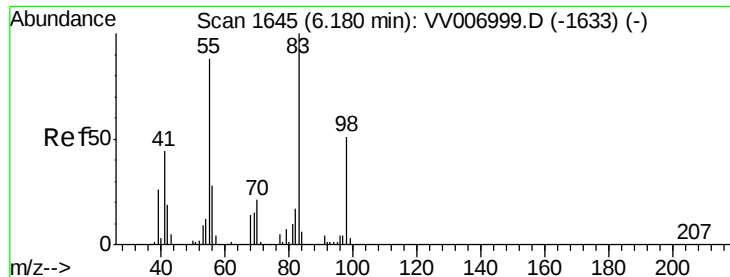
Ion	Ratio	Lower	Upper
95	100		
97	64.4	44.8	83.2
132	97.1	65.5	121.6
130	100.7	66.4	123.4



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

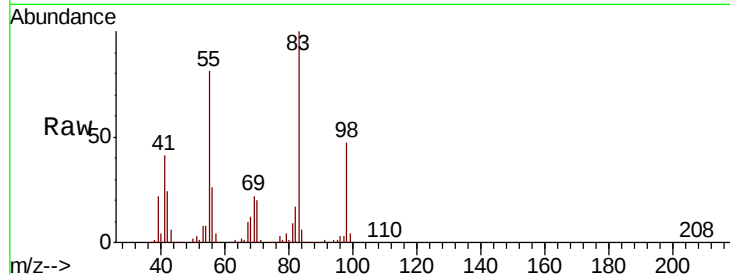




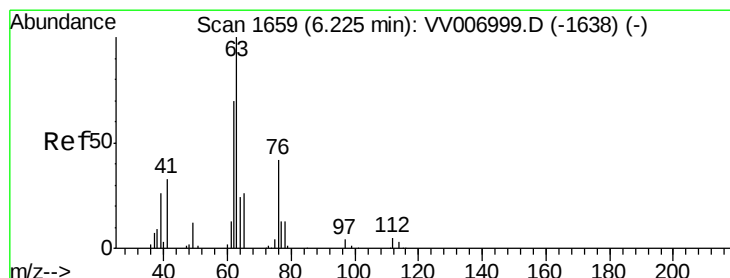
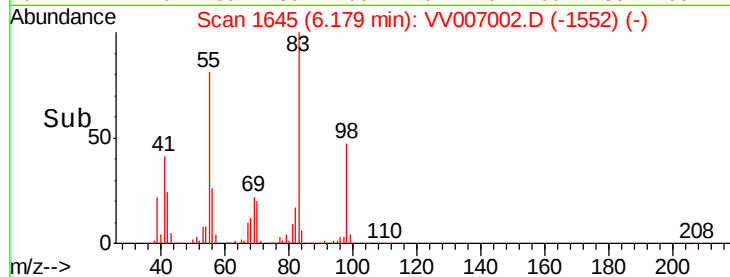
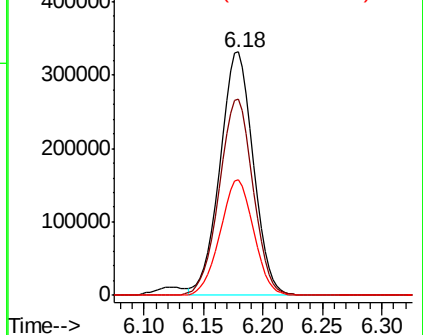
#35
Methvlcvclohexane
Concen: 22.225 ug/L
RT: 6.18 min Scan# 1645
Delta R.T. -0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Instrument :
MSVOA_V
ClientSampleId :

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

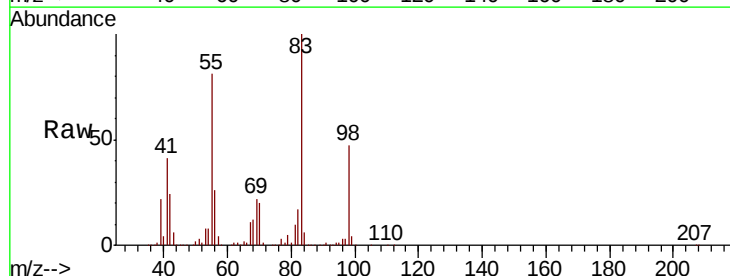


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

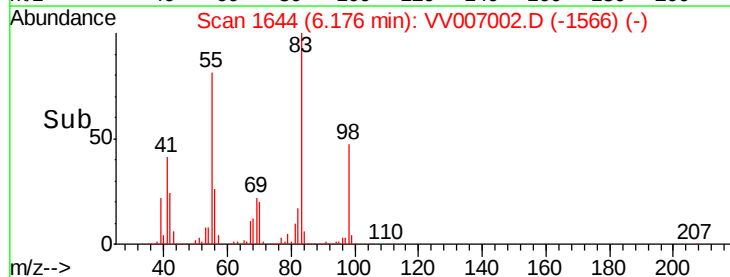
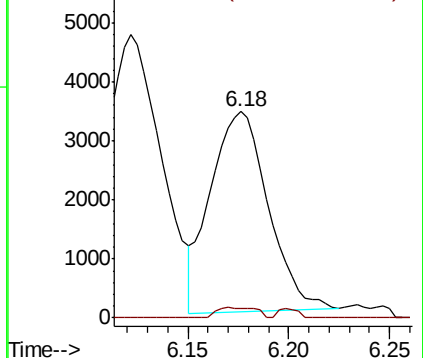


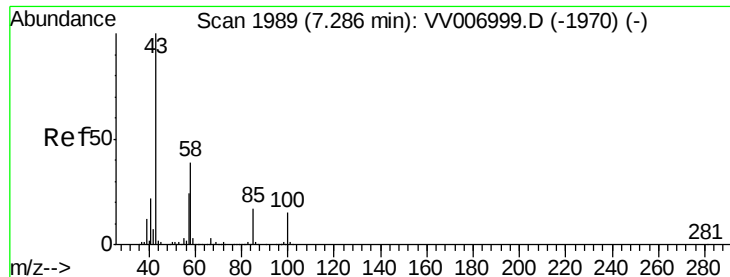
#37
1,2-Dichloropropane
Concen: 0.326 ug/L
RT: 6.18 min Scan# 1644
Delta R.T. -0.05 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Tgt Ion: 63 Resp: 6715
Ion Ratio Lower Upper
63 100
112 3.6 3.5 5.3



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V

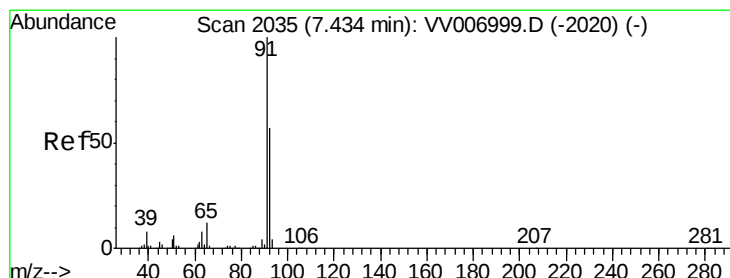
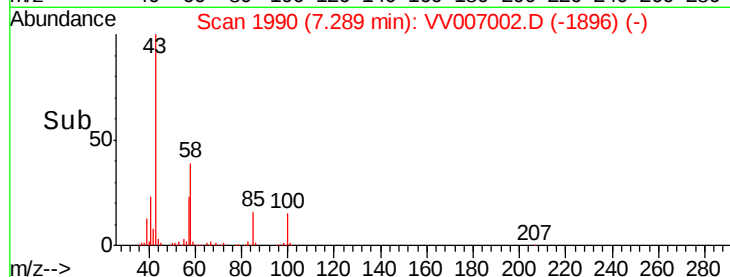
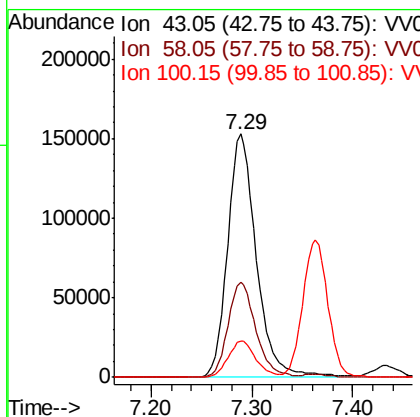
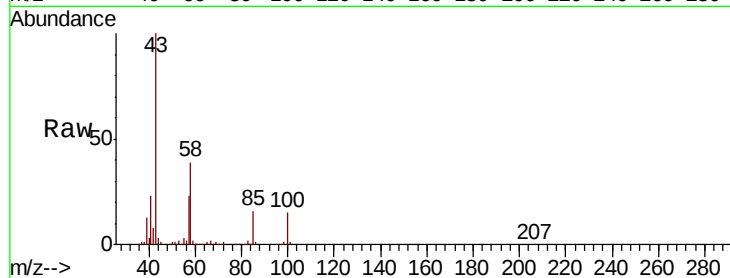




#40
4-Methyl-2-pentanone
Concen: 27.346 ug/L
RT: 7.29 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

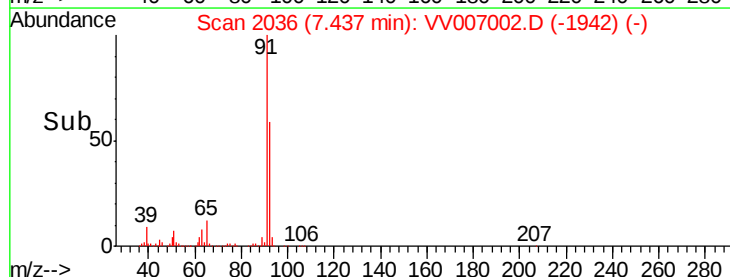
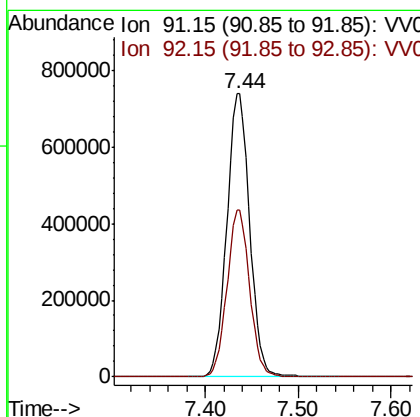
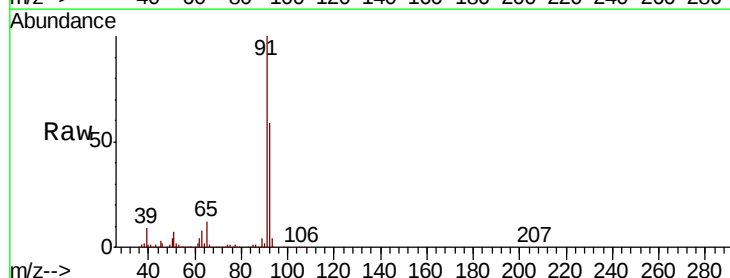
Instrument :
MSVOA_V
ClientSampled :

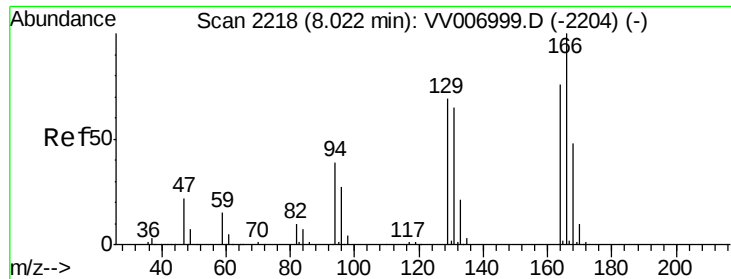
Tot Ion: 43 Resp: 304014
Ion Ratio Lower Upper
43 100
58 37.8 30.7 46.1
100 14.4 11.2 16.8



#42
Toluene
Concen: 17.477 ug/L
RT: 7.44 min Scan# 2036
Delta R.T. 0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Tgt Ion: 91 Resp: 1262716
Ion Ratio Lower Upper
91 100
92 58.9 40.2 74.6

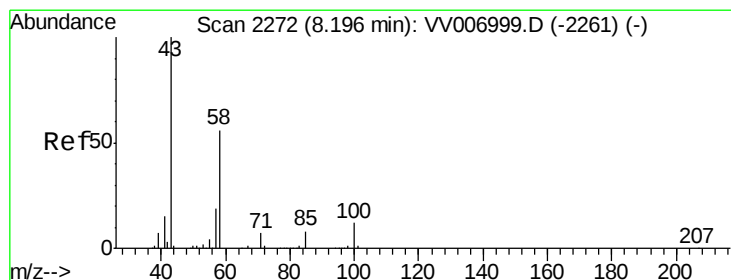
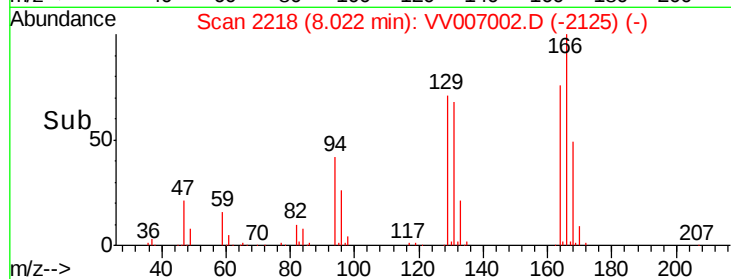
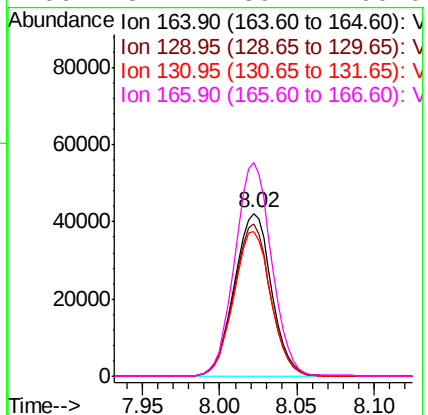
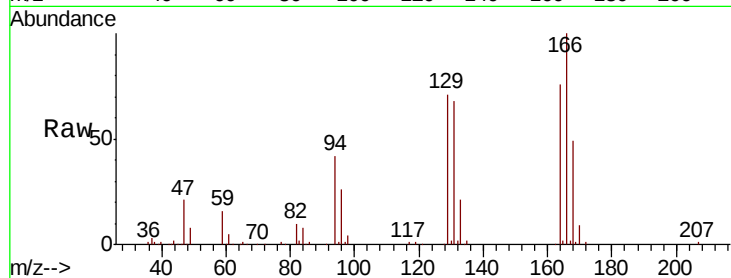




#47
Tetrachloroethene
Concen: 4.822 ug/L
RT: 8.02 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

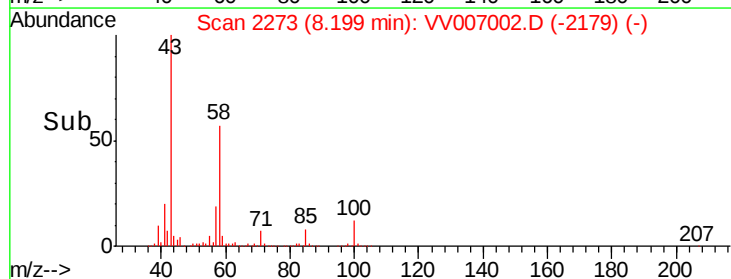
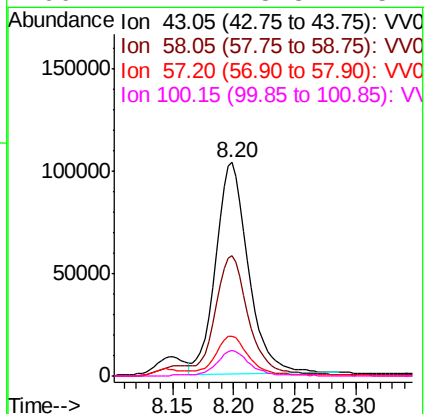
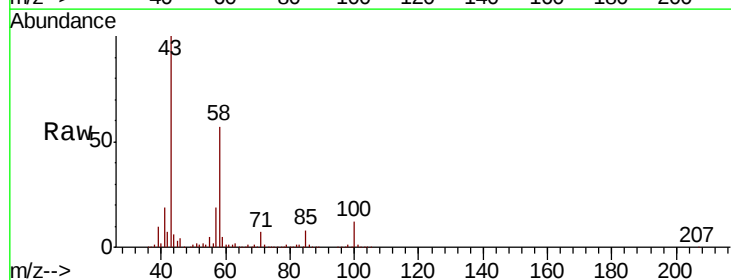
Instrument :
MSVOA_V
ClientSampleId :

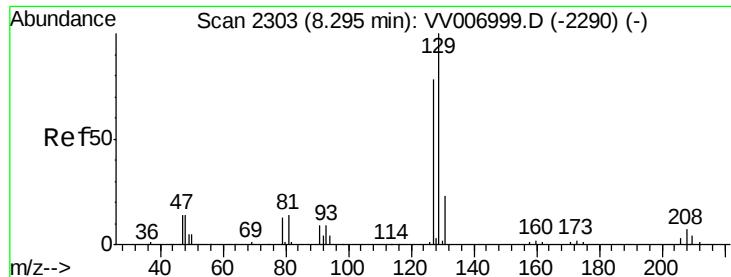
Tot Ion:	164	Resp:	70489
Ion	Ratio	Lower	Upper
164	100		
129	93.2	65.9	122.3
131	88.8	64.2	119.2
166	131.1	89.4	166.0



#48
2-Hexanone
Concen: 24.754 ug/L
RT: 8.20 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV007002.D
Acq: 13 Aug 2018 13:07

Tgt 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





#49

Dibromochloromethane

Concen: 4.303 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.27 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

Instrument :

MSVOA_V

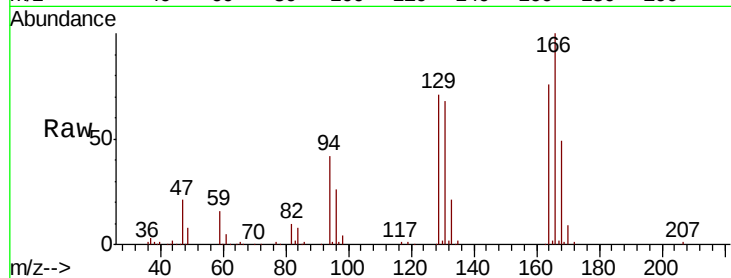
ClientSampleId :

Tot Ion:129 Resp: 60437

Ion Ratio Lower Upper

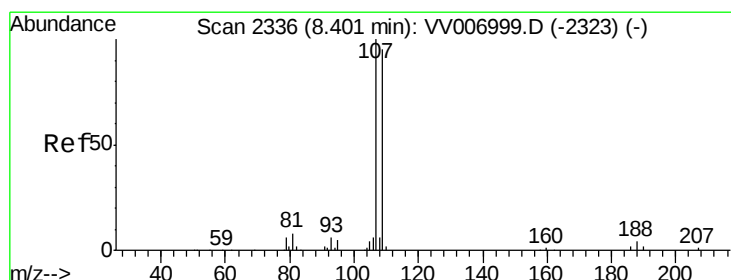
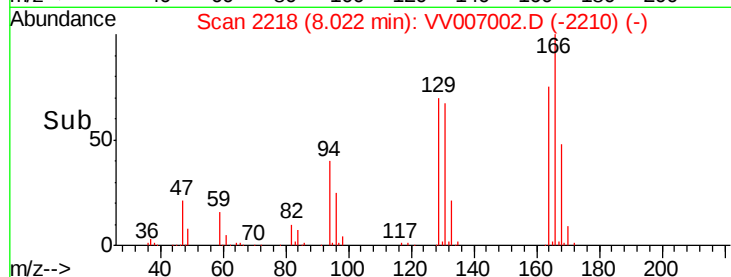
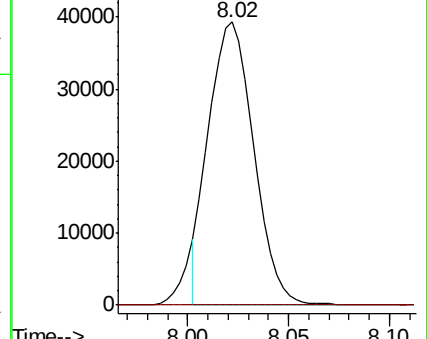
129 100

127 0.0 53.3 98.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#50

1,2-Dibromoethane

Concen: 2.028 ug/L

RT: 8.40 min Scan# 2336

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

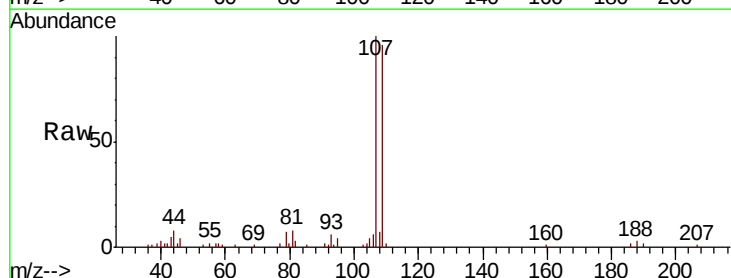
Tgt Ion:107 Resp: 22932

Ion Ratio Lower Upper

107 100

109 96.0 64.1 119.1

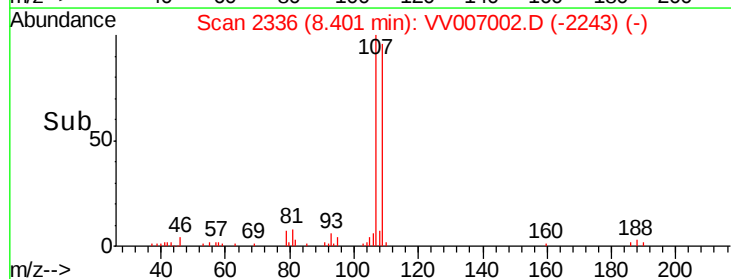
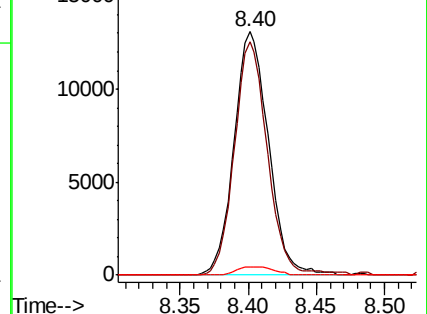
188 3.2 4.0 6.0#

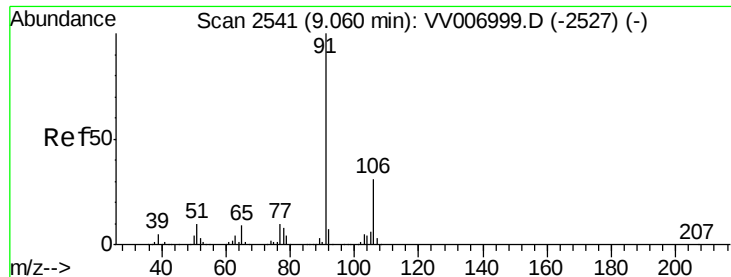


Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V





#52

Ethylbenzene

Concen: 10.321 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV007002.D

Acq: 13 Aug 2018 13:07

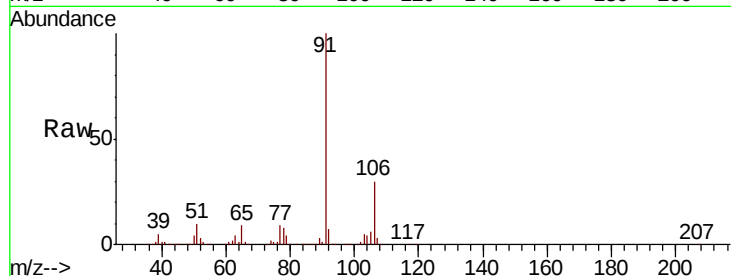
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 744623

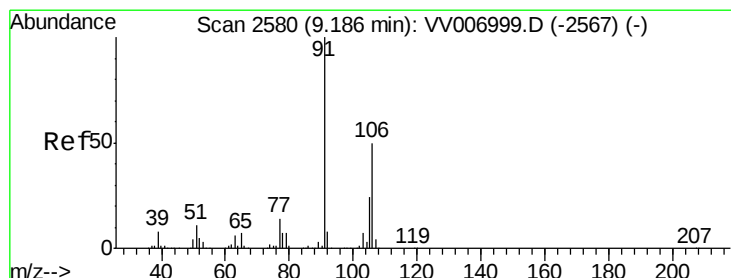
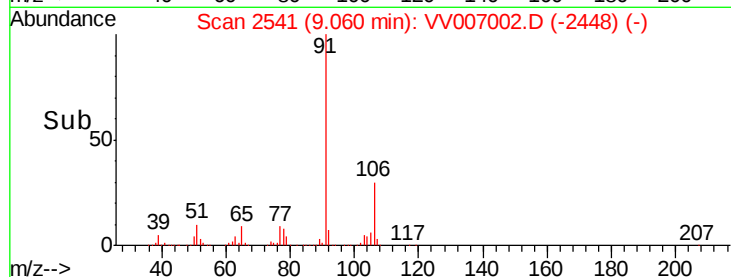
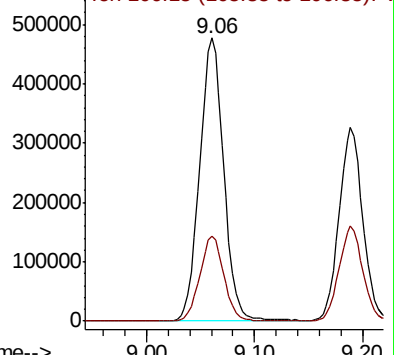
Ion Ratio Lower Upper

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: 9.035 ug/L

RT: 9.19 min Scan# 2581

Delta R.T. 0.00 min

Lab File: VV007002.D

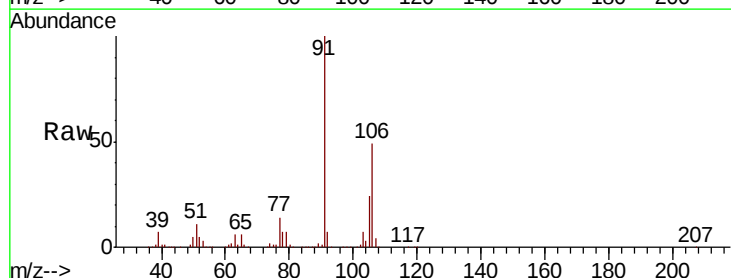
Acq: 13 Aug 2018 13:07

Tgt Ion:106 Resp: 242991

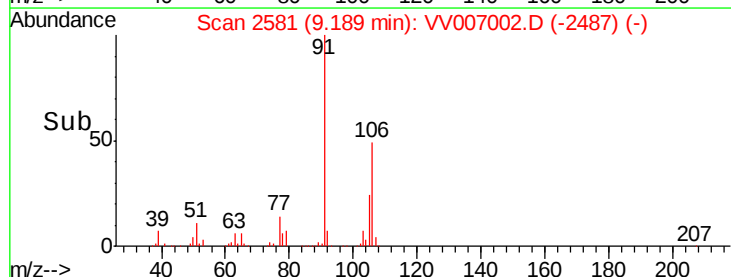
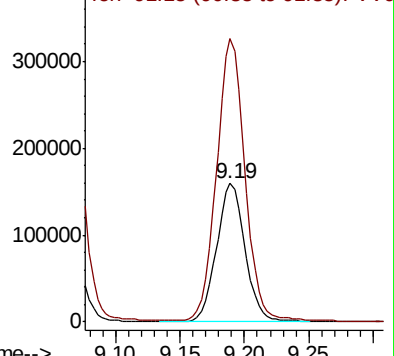
Ion Ratio Lower Upper

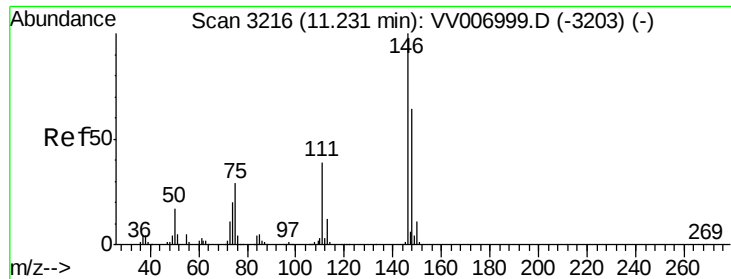
106 100

91 204.3 141.6 263.0



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

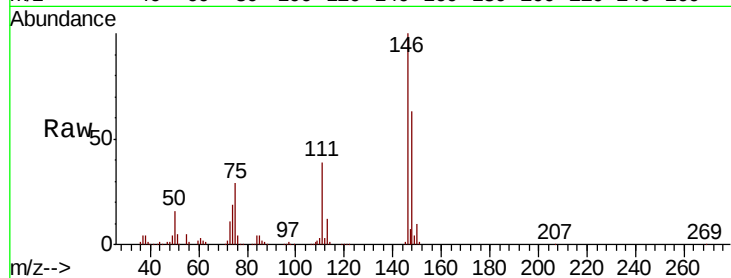




#62
 1,3-Dichlorobenzene
 Concen: 6.273 ug/L
 RT: 11.23 min Scan# 3216
 Delta R.T. -0.00 min
 Lab File: VV007002.D
 Acq: 13 Aug 2018 13:07

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	28.1	52.3
148	62.8	44.2	82.2

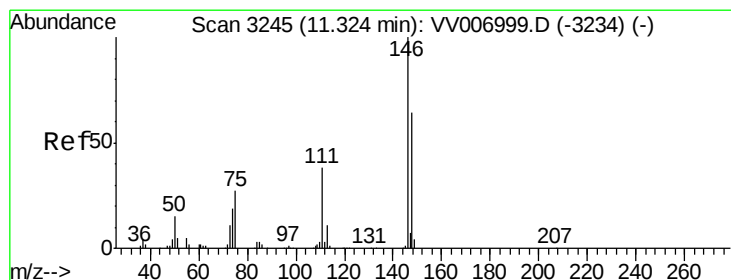
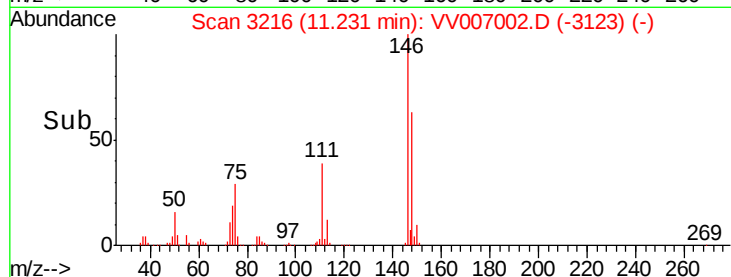
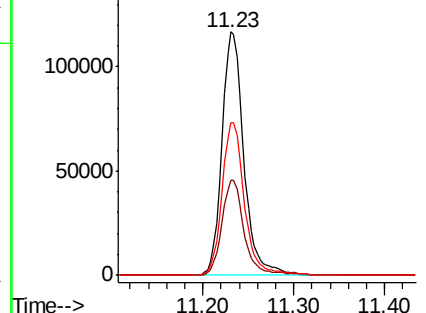


Abundance

Ion 145.95 (145.65 to 146.65): V

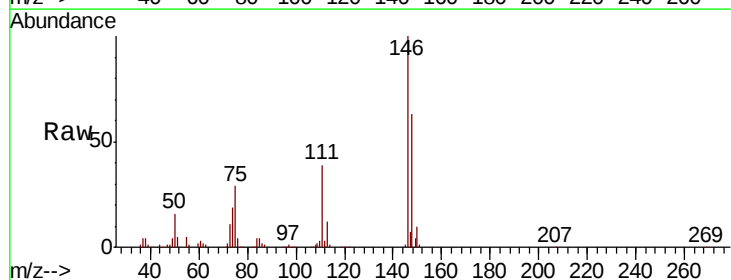
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63
 1,4-Dichlorobenzene
 Concen: 6.120 ug/L
 RT: 11.23 min Scan# 3216
 Delta R.T. -0.09 min
 Lab File: VV007002.D
 Acq: 13 Aug 2018 13:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	26.6	49.4
148	62.8	46.4	86.2



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

