

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080718\
 Data File : VV006904.D
 Acq On : 07 Aug 2018 18:09
 Operator : SY/MD
 Sample : VSTD02069
 Misc : 25 mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 08 06:42:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Aug 08 06:39:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	210828	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	200214	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	94461	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	242660	17.17	ug/L	0.00
7) Chloroethane-d5	1.58	69	222520	17.70	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	490916	18.42	ug/L	0.00
20) 2-Butanone-d5	3.97	46	839058	229.63	ug/L	0.00
24) Chloroform-d	4.41	84	520219	20.36	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	278560	21.21	ug/L	0.00
32) Benzene-d6	5.10	84	1007323	19.09	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	348902	19.64	ug/L	0.00
41) Toluene-d8	7.36	98	905346	19.21	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	122266	19.40	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	587024	213.86	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.27	84	263087	19.81	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.68	152	299123	17.67	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	322715	18.948	ug/L 98
3) Chloromethane	1.25	50	391726	15.954	ug/L 99
5) Vinyl chloride	1.32	62	372238	19.277	ug/L 98
6) Bromomethane	1.54	94	91165	19.006	ug/L 98
8) Chloroethane	1.60	64	232570	18.254	ug/L 99
9) Trichlorofluoromethane	1.77	101	454372	19.371	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	275125	18.788	ug/L 98
12) 1,1-Dichloroethene	2.14	96	255876	18.852	ug/L 86
13) Acetone	2.21	43	471959	185.372	ug/L 97
14) Carbon disulfide	2.32	76	808433	19.735	ug/L 98
15) Methyl Acetate	2.47	43	131179	17.344	ug/L 99
16) Methylene chloride	2.54	84	287717	17.531	ug/L 98
17) Methyl tert-butyl Ether	2.82	73	687663	18.791	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	281222	18.946	ug/L 95
19) 1,1-Dichloroethane	3.23	63	555182	19.863	ug/L 100
21) 2-Butanone	4.05	43	883358	221.552	ug/L 100
22) cis-1,2-Dichloroethene	3.97	96	299875	19.079	ug/L 97
23) Bromochloromethane	4.30	128	121261	17.761	ug/L 96
25) Chloroform	4.43	83	535343	19.577	ug/L 97
27) 1,2-Dichloroethane	5.19	62	349375	20.789	ug/L 99
29) 1,1,1-Trichloroethane	4.66	97	445098	18.916	ug/L 99
30) Cyclohexane	4.73	56	508704	21.219	ug/L 97
31) Carbon tetrachloride	4.88	117	377526	19.391	ug/L 97
33) Benzene	5.15	78	1219416	19.628	ug/L 100
34) Trichloroethene	5.96	95	279514	17.934	ug/L 99
35) Methylcyclohexane	6.18	83	496974	20.315	ug/L 97
37) 1,2-Dichloropropane	6.23	63	340554	20.792	ug/L 99
38) Bromodichloromethane	6.56	83	379917	20.235	ug/L 100
39) cis-1,3-Dichloropropene	7.08	75	427411	20.558	ug/L 97
40) 4-Methyl-2-pentanone	7.29	43	2064522	224.296	ug/L 97

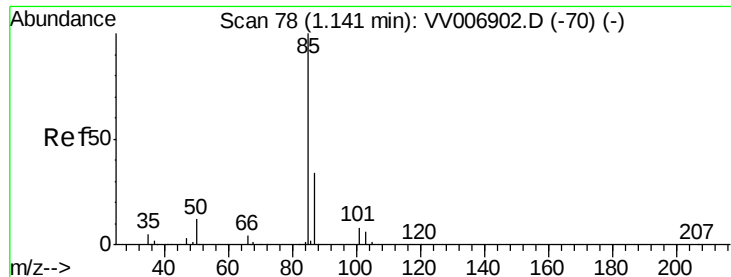
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080718\
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 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.44	91	1222597	20.142	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	353691	20.489	ug/L	94
45) 1,1,2-Trichloroethane	7.89	97	208392	17.901	ug/L	98
47) Tetrachloroethene	8.02	164	218182	17.830	ug/L	98
48) 2-Hexanone	8.20	43	1503215	237.999	ug/L	99
49) Dibromochloromethane	8.30	129	232084	19.568	ug/L	95
50) 1,2-Dibromoethane	8.40	107	179893	18.321	ug/L	98
51) Chlorobenzene	8.93	112	728126	18.976	ug/L	98
52) Ethylbenzene	9.06	91	1283270	20.535	ug/L	100
53) m,p-xylene	9.19	106	479487	20.837	ug/L	98
54) o-xylene	9.59	106	457685	19.688	ug/L	96
55) Styrene	9.61	104	816132	22.153	ug/L	99
56) Isopropylbenzene	9.98	105	1219066	20.641	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	263662	18.504	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	192434	19.213	ug/L	99
61) Bromoform	9.78	173	123056	18.808	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	516133	17.585	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	528141	18.175	ug/L	97
65) 1,2-Dichlorobenzene	11.70	146	517303	17.892	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	38128	17.954	ug/L #	89
67) 1,3,5-Trichlorobenzene	12.70	180	399642	17.759	ug/L	98
68) 1,2,4-trichlorobenzene	13.32	180	314591	18.137	ug/L	94
69) Naphthalene	13.56	128	523688	17.720	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	310847	18.620	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 18.948 ug/L

RT: 1.14 min Scan# 77

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

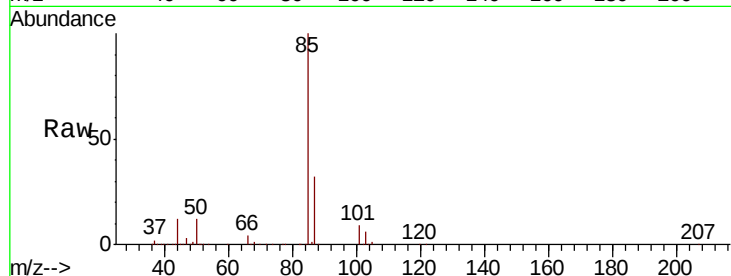
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 322715

Ion Ratio Lower Upper

85 100

87 32.4 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VV006902.D (-70) (-)

Ion 87.00 (86.70 to 87.70): VV006902.D (-70) (-)

1.14

300000

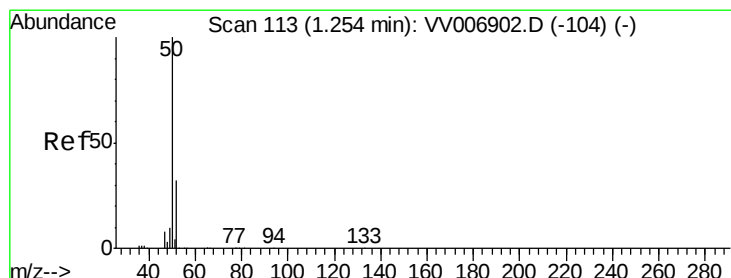
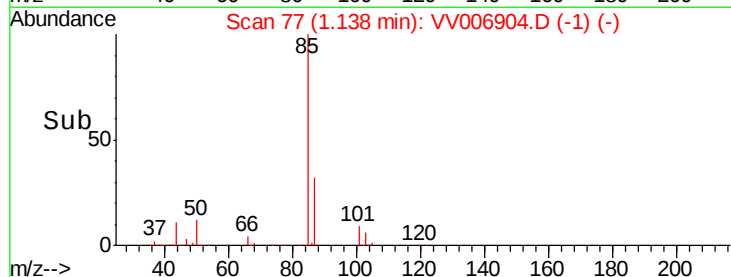
200000

100000

0

Time-->

1.10 1.15 1.20 1.25



#3

Chloromethane

Concen: 15.954 ug/L

RT: 1.25 min Scan# 112

Delta R.T. -0.00 min

Lab File: VV006904.D

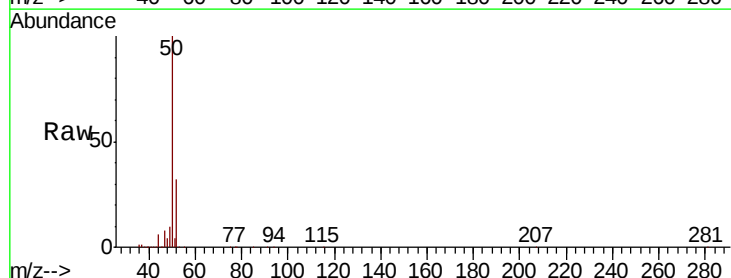
Acq: 07 Aug 2018 18:09

Tgt Ion: 50 Resp: 391726

Ion Ratio Lower Upper

50 100

52 32.4 22.3 41.3



Abundance Ion 50.05 (49.75 to 50.75): VV006902.D (-104) (-)

Ion 52.05 (51.75 to 52.75): VV006902.D (-104) (-)

1.25

400000

300000

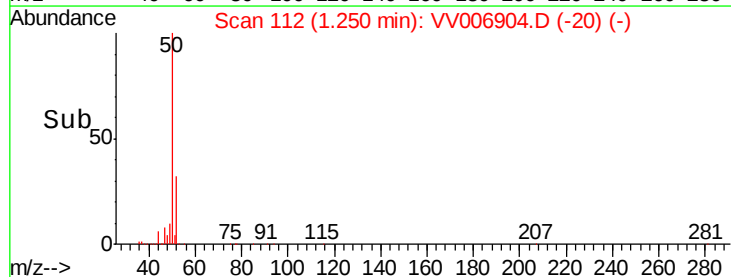
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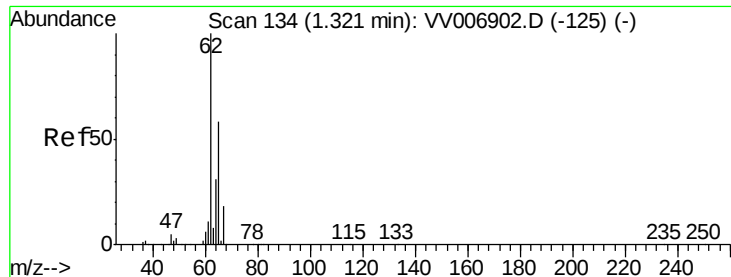
100000

0

Time-->

1.20 1.25 1.30





#5

Vinyl chloride

Concen: 19.277 ug/L

RT: 1.32 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

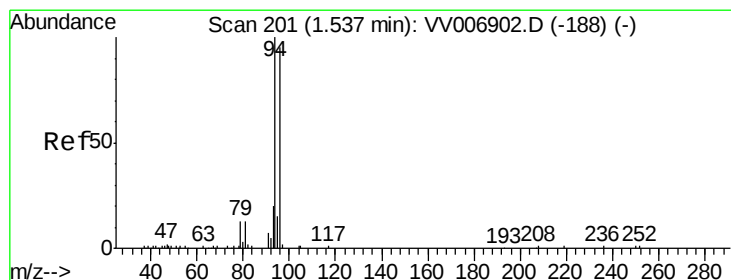
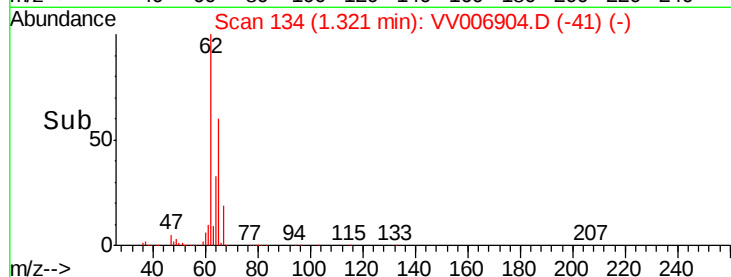
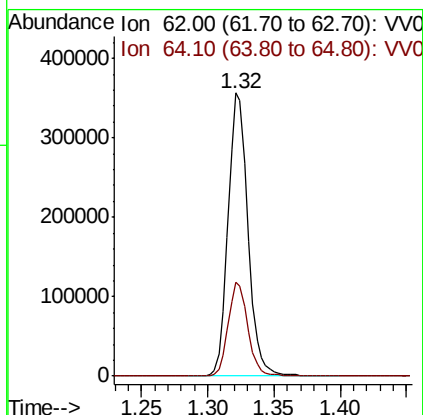
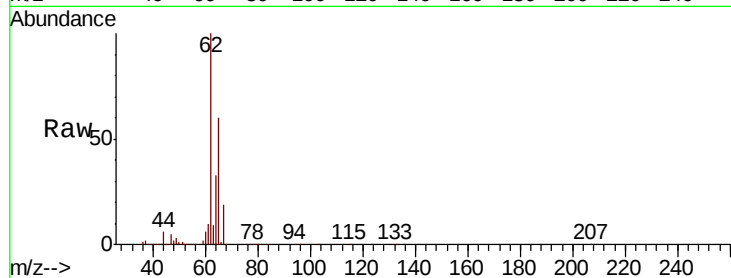
ClientSampled :

Tot Ion: 62 Resp: 372238

Ion Ratio Lower Upper

62 100

64 33.0 22.1 41.1



#6

Bromomethane

Concen: 19.006 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV006904.D

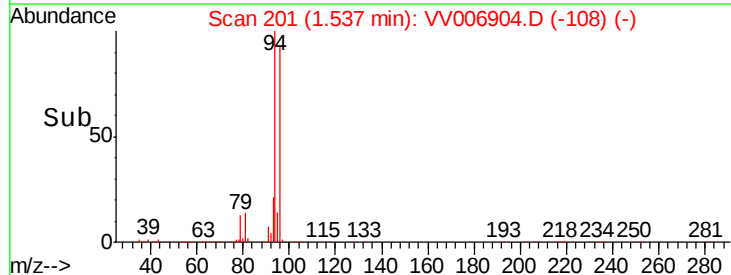
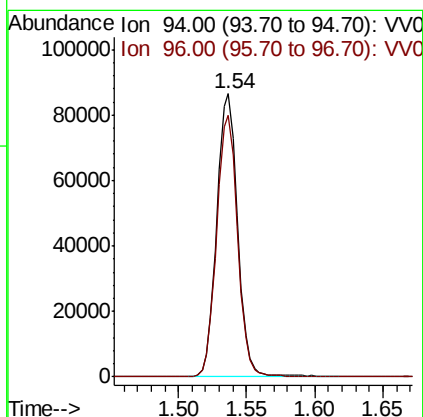
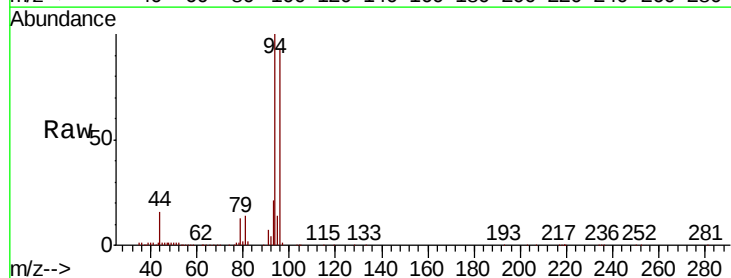
Acq: 07 Aug 2018 18:09

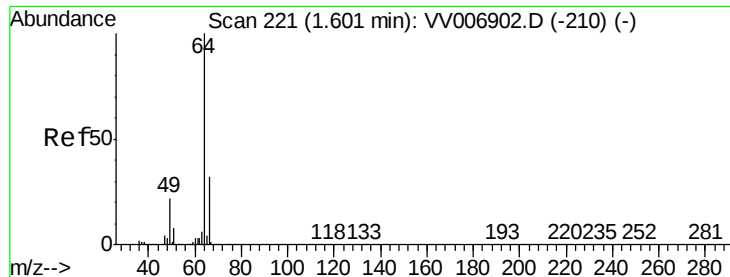
Tgt Ion: 94 Resp: 91165

Ion Ratio Lower Upper

94 100

96 92.6 66.2 123.0





#8

Chloroethane

Concen: 18.254 ug/L

RT: 1.60 min Scan# 220

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

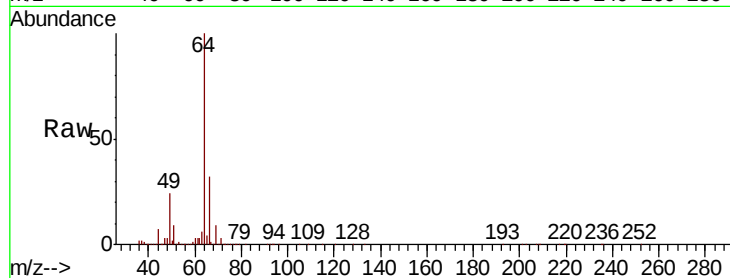
ClientSampleId :

Tot Ion: 64 Resp: 232570

Ion Ratio Lower Upper

64 100

66 31.6 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VV006902.D (-210) (-)

Ion 66.05 (65.75 to 66.75): VV006902.D (-210) (-)

1.60

250000

200000

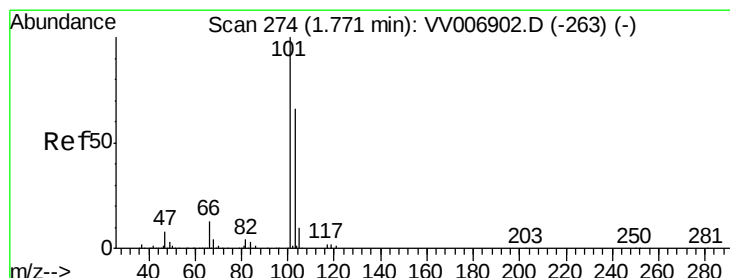
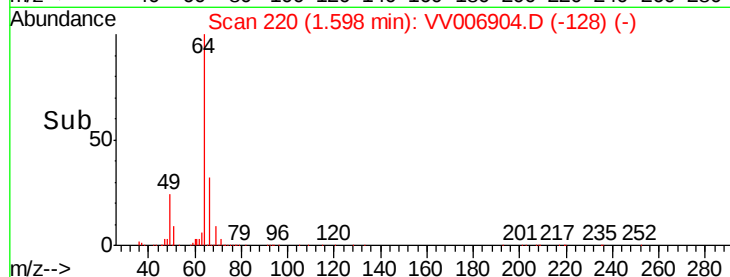
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 19.371 ug/L

RT: 1.77 min Scan# 273

Delta R.T. -0.00 min

Lab File: VV006904.D

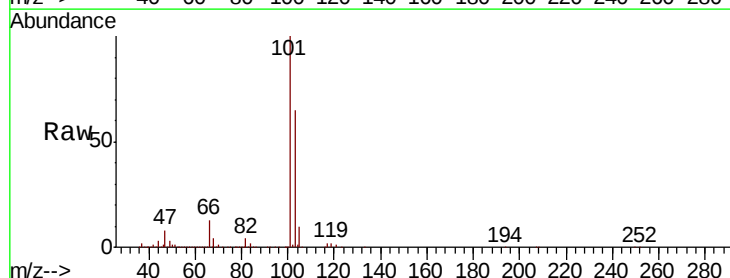
Acq: 07 Aug 2018 18:09

Tgt Ion: 101 Resp: 454372

Ion Ratio Lower Upper

101 100

103 64.8 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV006902.D (-263) (-)

Ion 103.00 (102.70 to 103.70): VV006902.D (-263) (-)

1.77

400000

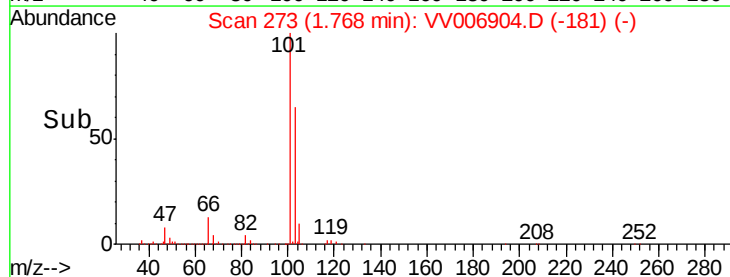
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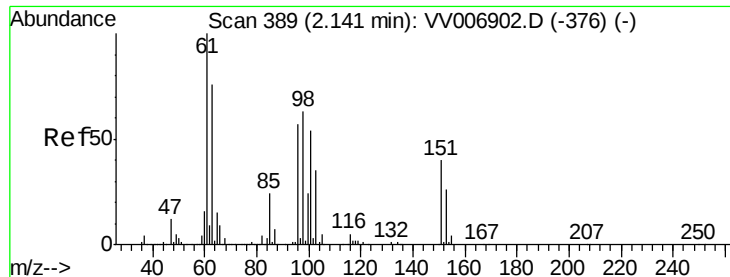
200000

100000

0

Time-->





#10

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

Concen: 18.788 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

ClientSampled :

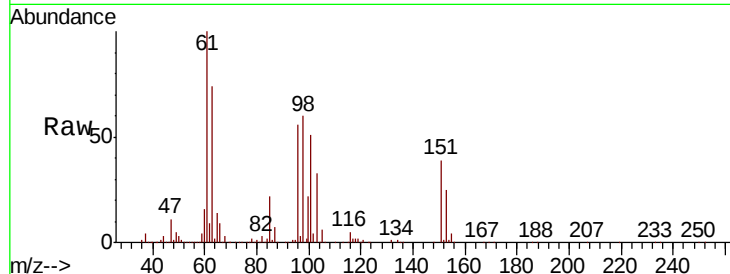
Tot Ion:101 Resp: 275125

Ion Ratio Lower Upper

101 100

85 42.6 36.2 54.4

151 75.3 59.8 89.8



Abundance Ion 101.00 (100.70 to 101.70): VV006902.D (-376) (-)

Ion 85.00 (84.70 to 85.70): VV006902.D (-376) (-)

Ion 151.00 (150.70 to 151.70): VV006902.D (-376) (-)

2.14

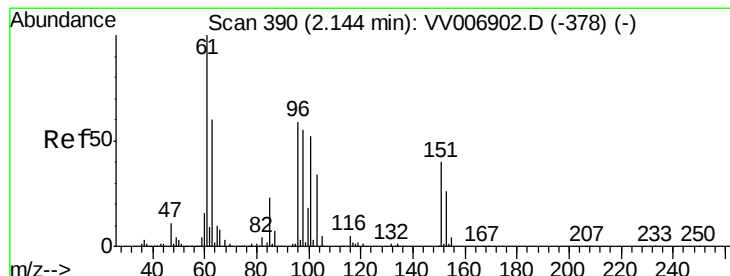
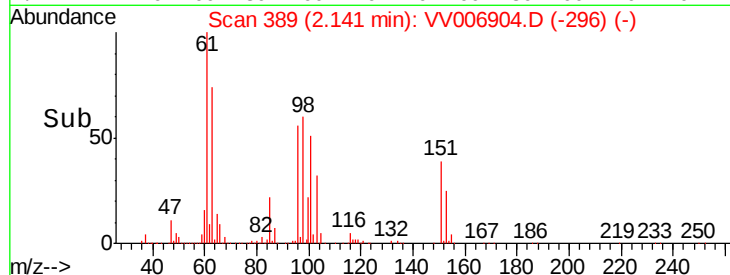
150000

100000

50000

0

Time-->



#12

1,1-Dichloroethene

Concen: 18.852 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

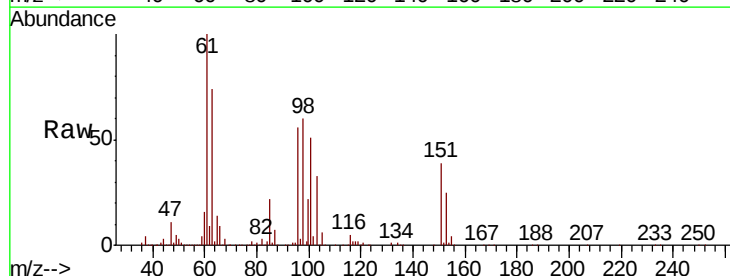
Tgt Ion: 96 Resp: 255876

Ion Ratio Lower Upper

96 100

61 178.6 119.0 221.0

63 131.4 73.6 136.6



Abundance Ion 96.00 (95.70 to 96.70): VV006902.D (-378) (-)

Ion 61.05 (60.75 to 61.75): VV006902.D (-378) (-)

Ion 63.00 (62.70 to 63.70): VV006902.D (-378) (-)

2.14

400000

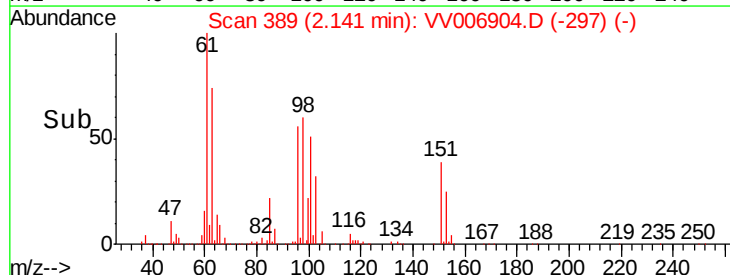
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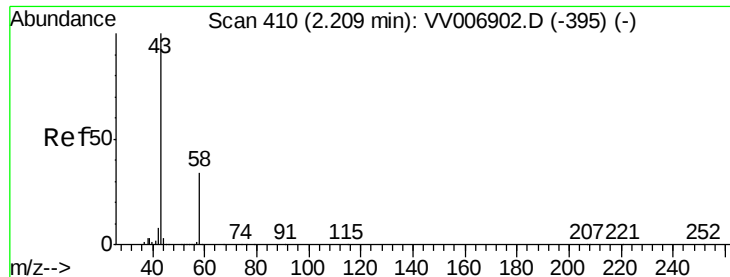
200000

100000

0

Time-->





#13

Acetone

Concen: 185.372 ug/L

RT: 2.21 min Scan# 410

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

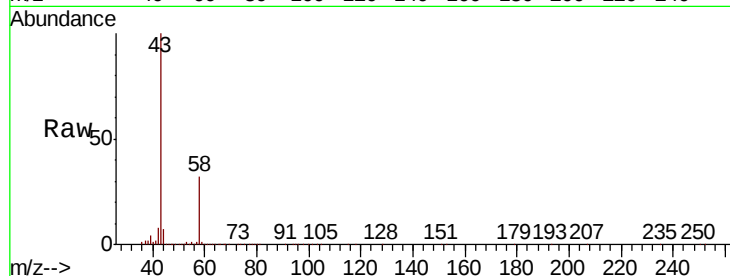
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 471959

Ion Ratio Lower Upper

43 100

58 32.2 0.0 68.0



Abundance Ion 43.05 (42.75 to 43.75): VV006902.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VV006902.D (-395) (-)

2.21

250000

200000

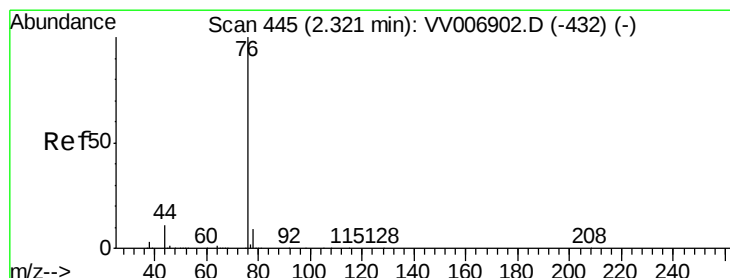
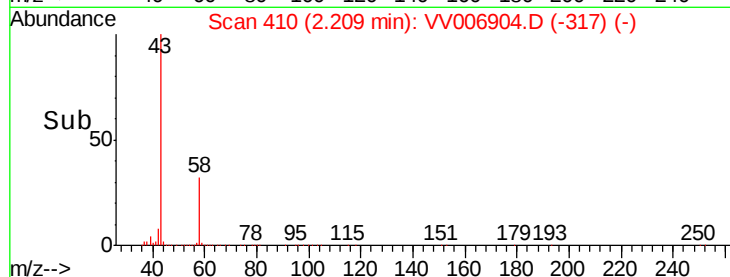
150000

100000

50000

0

Time--> 2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 19.735 ug/L

RT: 2.32 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV006904.D

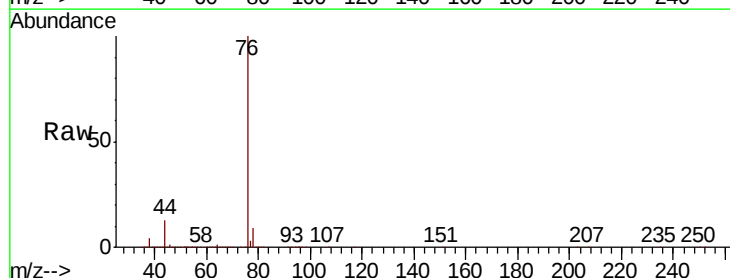
Acq: 07 Aug 2018 18:09

Tgt Ion: 76 Resp: 808433

Ion Ratio Lower Upper

76 100

78 9.1 7.8 11.6



Abundance Ion 76.05 (75.75 to 76.75): VV006902.D (-432) (-)

Ion 78.00 (77.70 to 78.70): VV006902.D (-432) (-)

2.32

600000

500000

400000

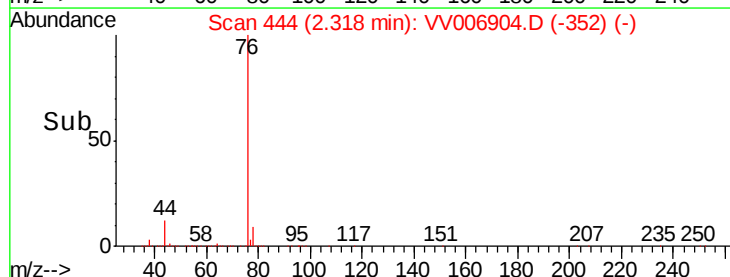
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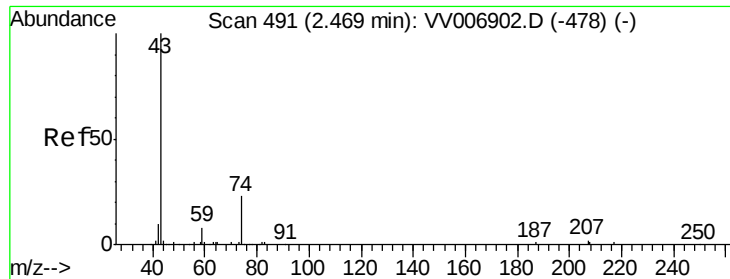
200000

100000

0

Time--> 2.20 2.30 2.40





#15

Methvl Acetate

Concen: 17.344 ug/L

RT: 2.47 min Scan# 491

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

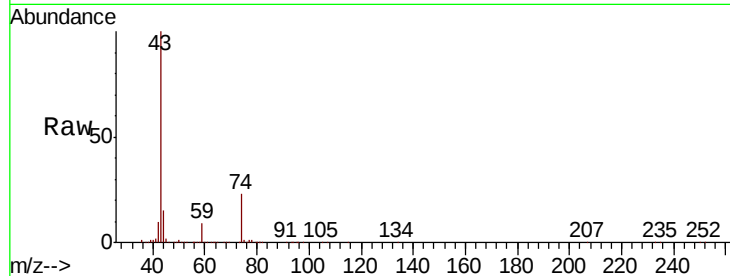
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 131179

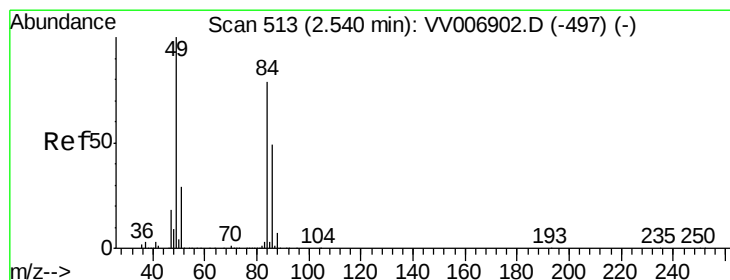
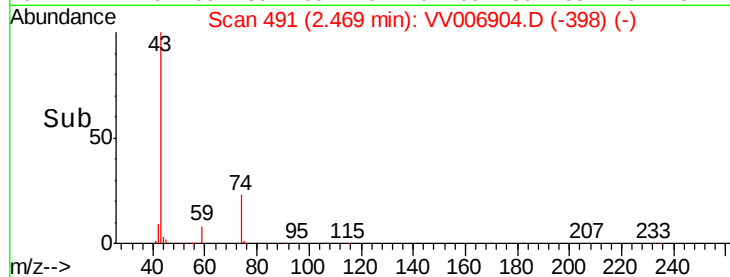
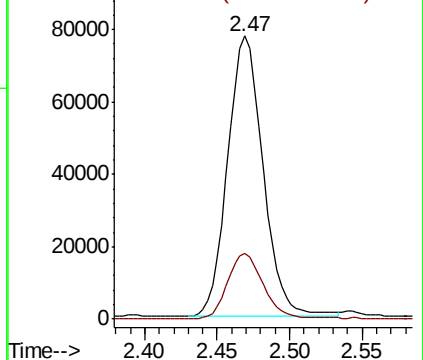
Ion Ratio Lower Upper

43 100

74 23.9 18.6 27.8



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 17.531 ug/L

RT: 2.54 min Scan# 513

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

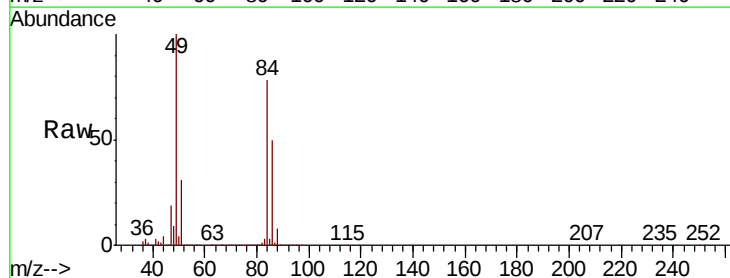
Tgt Ion: 84 Resp: 287717

Ion Ratio Lower Upper

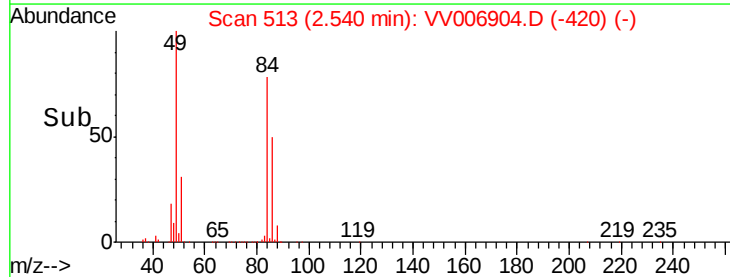
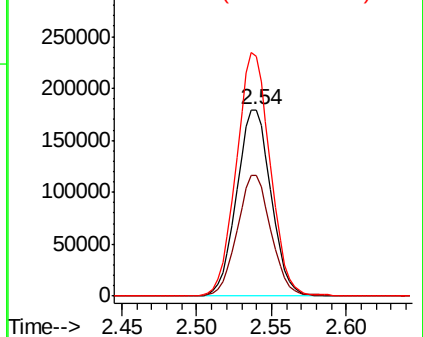
84 100

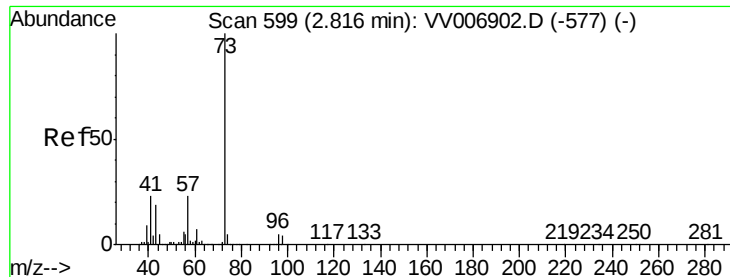
86 65.0 43.6 81.0

49 128.8 88.6 164.6



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

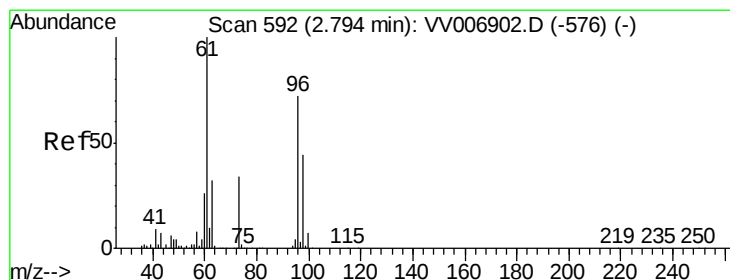
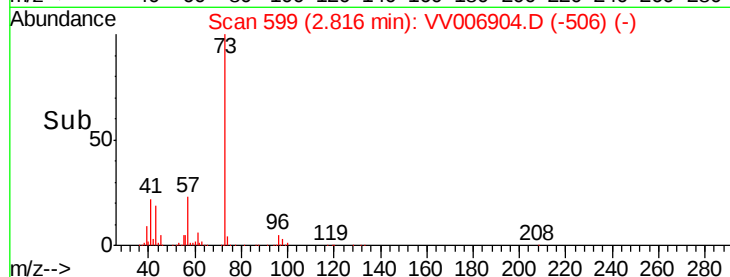
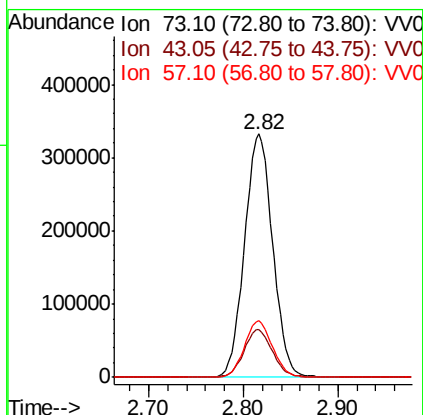
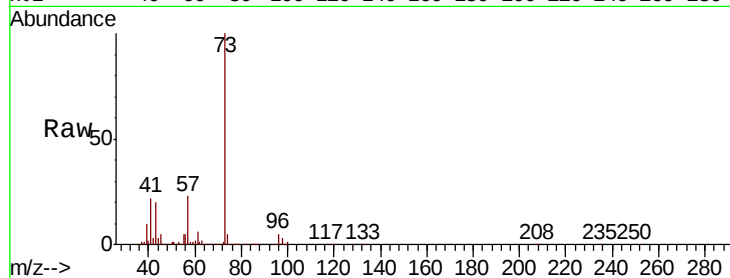




#17
Methvl tert-butvl Ether
Concen: 18.791 ug/L
RT: 2.82 min Scan# 599
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

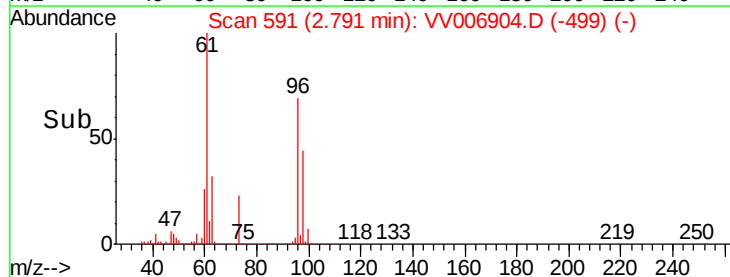
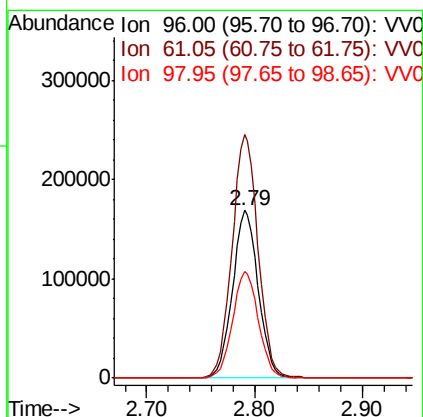
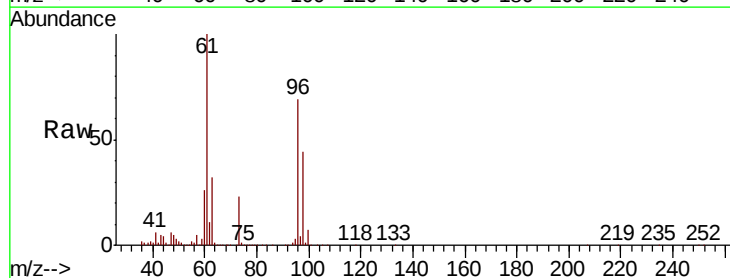
Instrument :
MSVOA_V
ClientSampled :

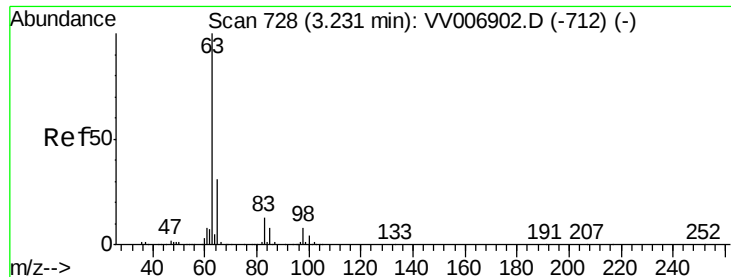
Tot Ion	73	Resp	687663
Ion	Ratio	Lower	Upper
73	100		
43	19.4	15.3	22.9
57	22.8	18.8	28.2



#18
trans-1,2-Dichloroethene
Concen: 18.946 ug/L
RT: 2.79 min Scan# 591
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

Tgt Ion	96	Resp	281222
Ion	Ratio	Lower	Upper
96	100		
61	145.3	97.3	180.7
98	63.6	42.8	79.6





#19

1,1-Dichloroethane

Concen: 19.863 ug/L

RT: 3.23 min Scan# 728

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

ClientSampleId :

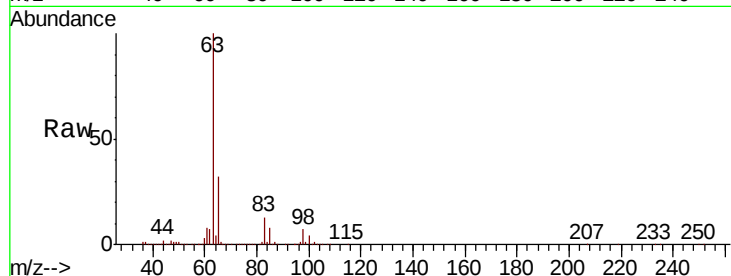
Tot Ion: 63 Resp: 555182

Ion Ratio Lower Upper

63 100

65 31.7 22.0 41.0

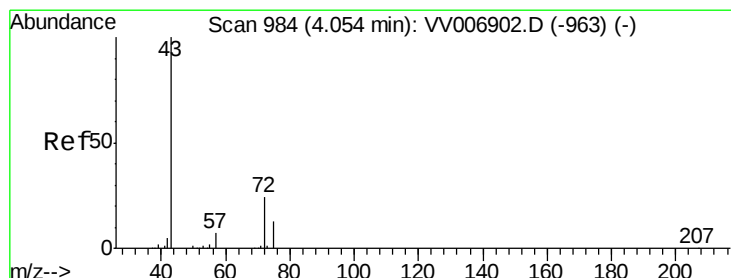
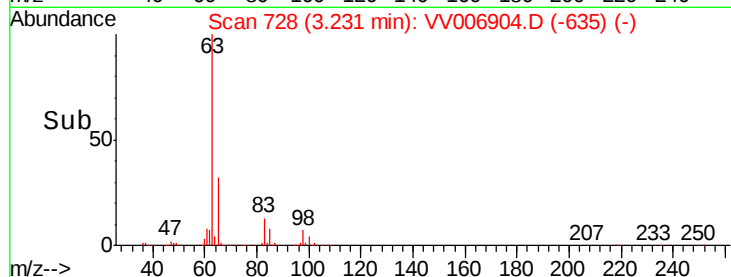
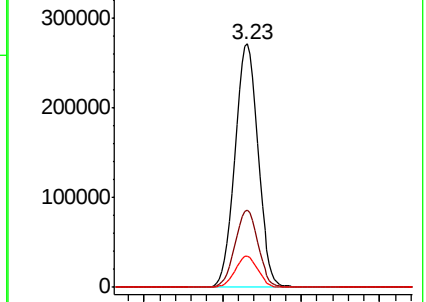
83 13.0 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VV006904.D (-635) (-)

Ion 65.10 (64.80 to 65.80): VV006904.D (-635) (-)

Ion 83.05 (82.75 to 83.75): VV006904.D (-635) (-)



#21

2-Butanone

Concen: 221.552 ug/L

RT: 4.05 min Scan# 983

Delta R.T. -0.00 min

Lab File: VV006904.D

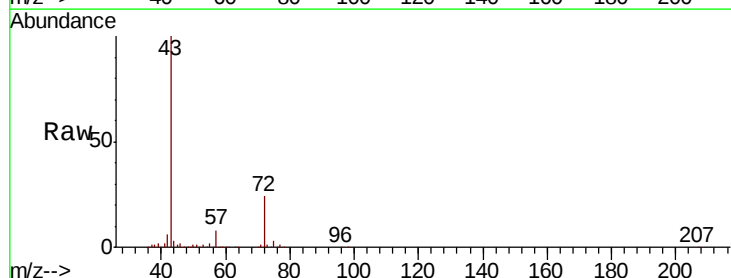
Acq: 07 Aug 2018 18:09

Tgt Ion: 43 Resp: 883358

Ion Ratio Lower Upper

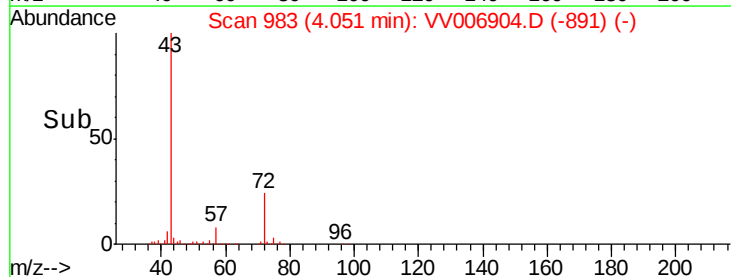
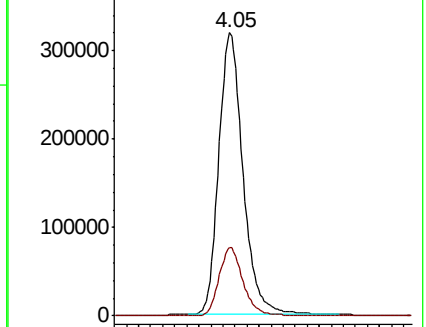
43 100

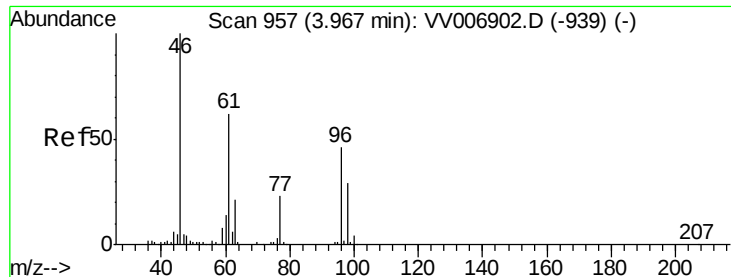
72 23.9 11.9 35.5



Abundance Ion 43.05 (42.75 to 43.75): VV006904.D (-891) (-)

Ion 72.10 (71.80 to 72.80): VV006904.D (-891) (-)



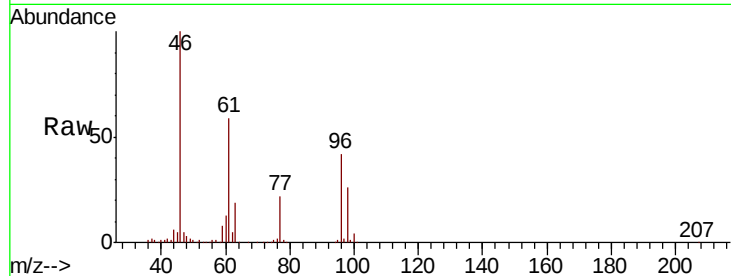


#22

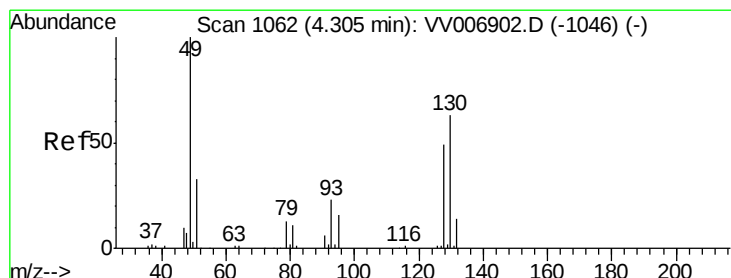
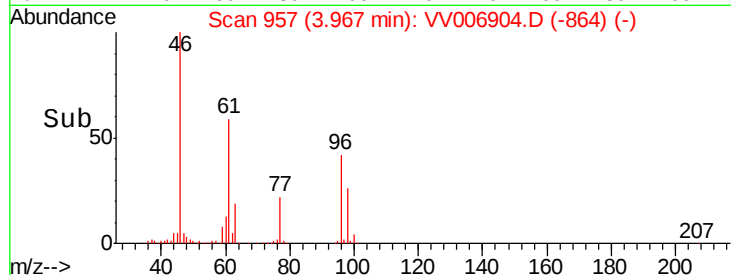
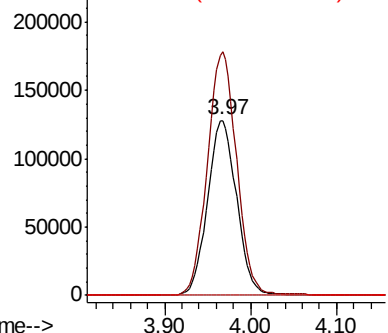
cis-1,2-Dichloroethene
Concen: 19.079 ug/L
RT: 3.97 min Scan# 957
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.5	95.5	177.4
68	0.0	0.0	0.0



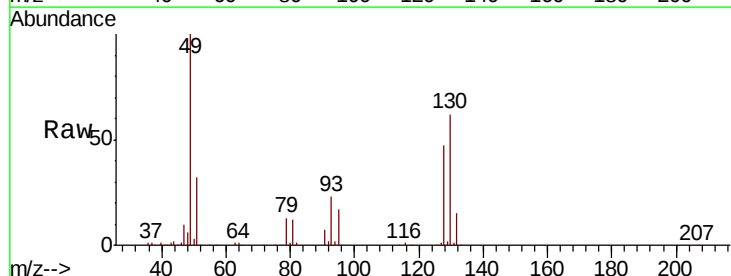
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



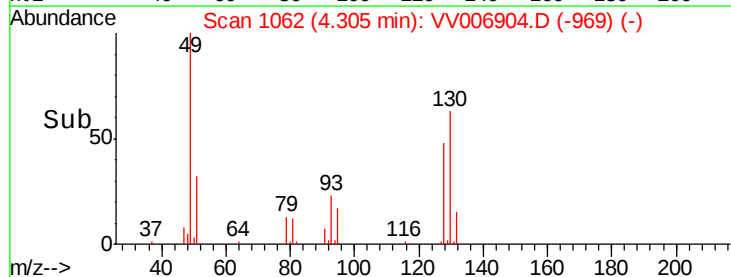
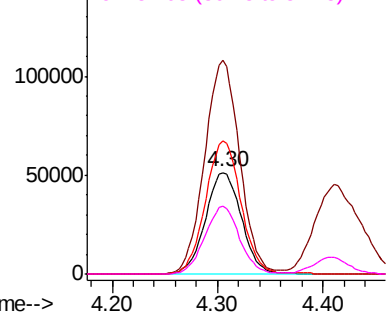
#23

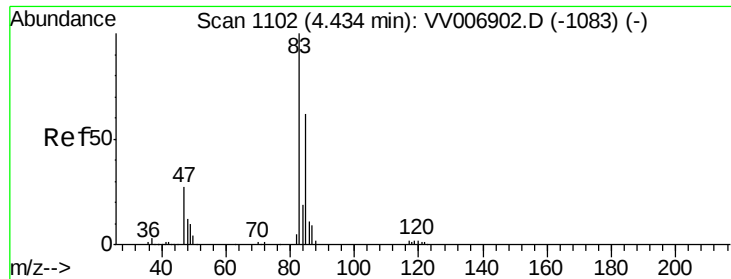
Bromochloromethane
Concen: 17.761 ug/L
RT: 4.30 min Scan# 1062
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

Tgt Ion	Ratio	Lower	Upper
128	100		
49	211.0	141.5	262.9
130	131.2	89.7	166.7
51	67.6	53.5	80.3



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0





#25

Chloroform

Concen: 19.577 ug/L

RT: 4.43 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

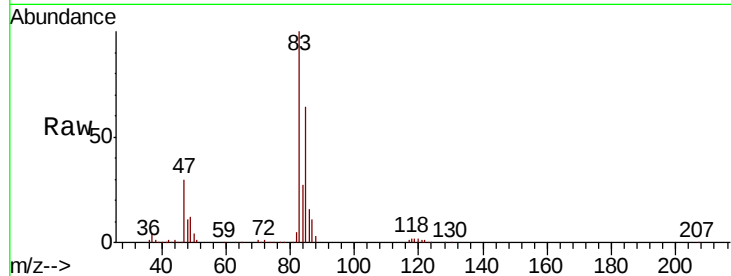
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 83 Resp: 535343

Ion Ratio Lower Upper

83 100

85 64.5 43.5 80.7



Abundance Ion 83.05 (82.75 to 83.75): VV006904.D (-1083) (-)

Ion 85.00 (84.70 to 85.70): VV006904.D (-1083) (-)

4.43

250000

200000

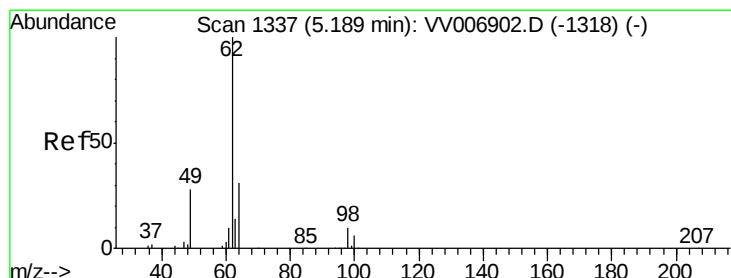
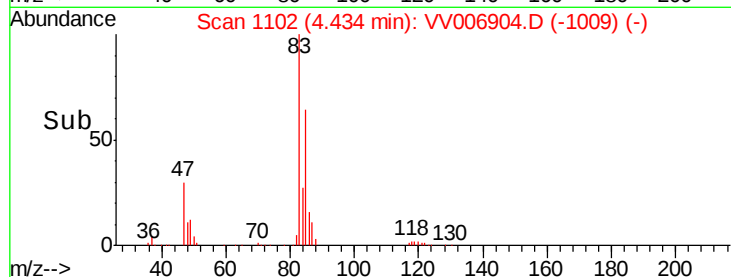
150000

100000

50000

0

Time--> 4.30 4.40 4.50



#27

1,2-Dichloroethane

Concen: 20.789 ug/L

RT: 5.19 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VV006904.D

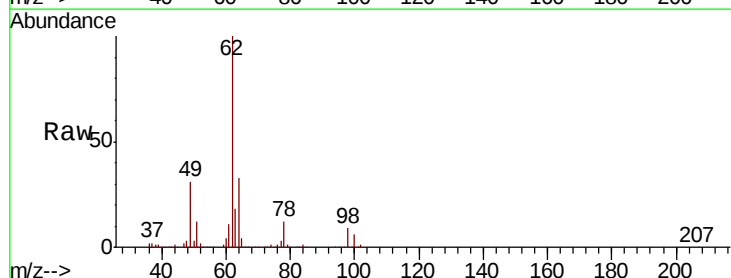
Acq: 07 Aug 2018 18:09

Tgt Ion: 62 Resp: 349375

Ion Ratio Lower Upper

62 100

98 9.5 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VV006904.D (-1244) (-)

Ion 98.05 (97.75 to 98.75): VV006904.D (-1244) (-)

5.19

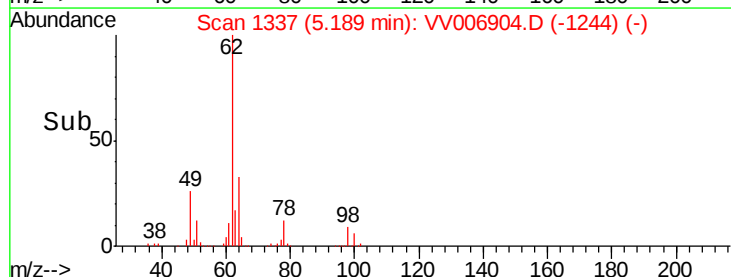
150000

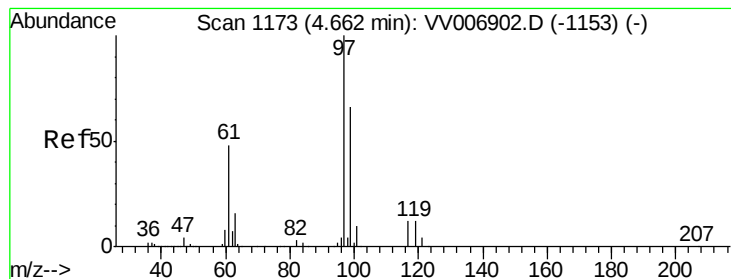
100000

50000

0

Time--> 5.10 5.20 5.30





#29

1,1,1-Trichloroethane

Concen: 18.916 ug/L

RT: 4.66 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :
MSVOA_V
ClientSampled :

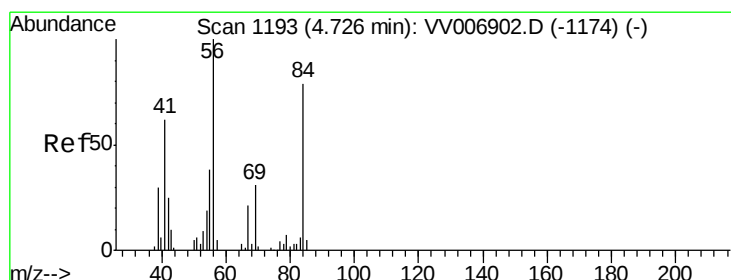
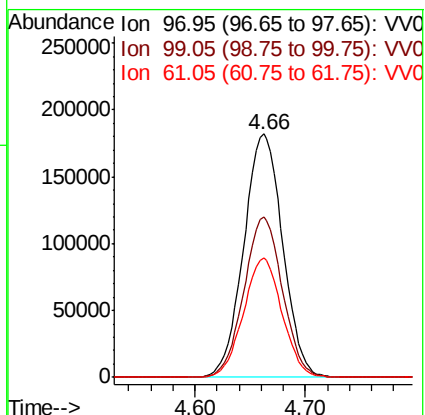
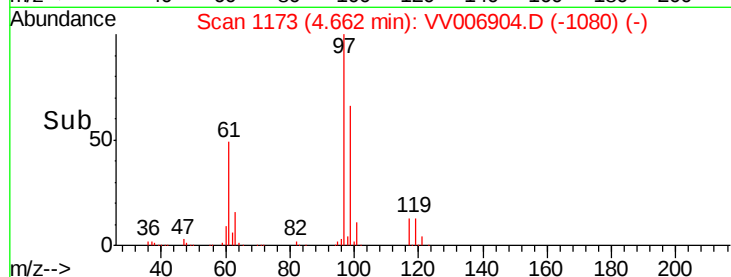
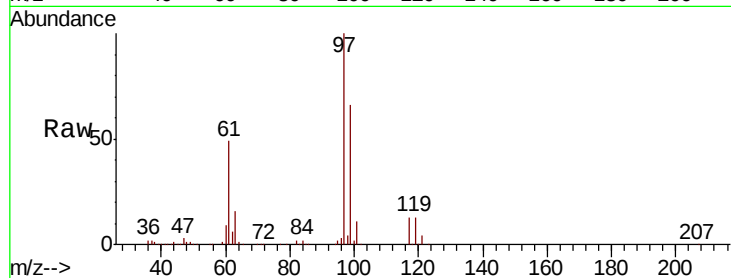
Tot Ion: 97 Resp: 445098

Ion Ratio Lower Upper

97 100

99 65.2 51.0 76.6

61 48.7 38.6 57.8



#30

Cyclohexane

Concen: 21.219 ug/L

RT: 4.73 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

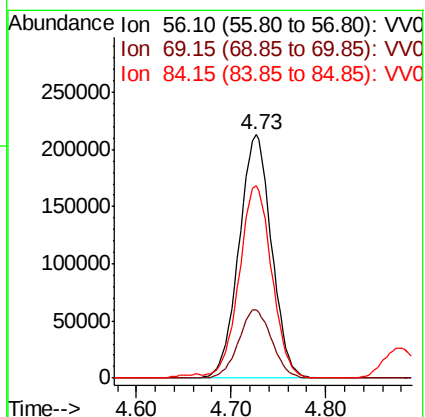
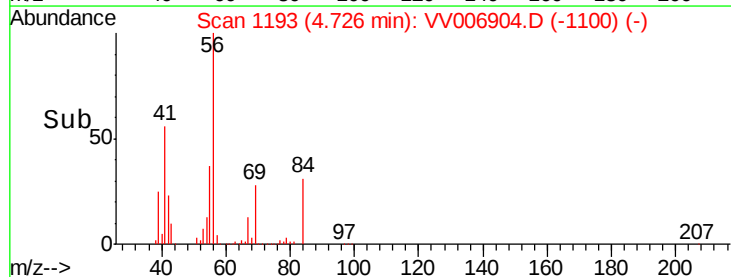
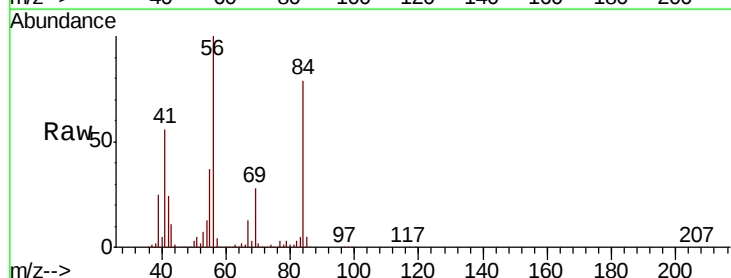
Tgt Ion: 56 Resp: 508704

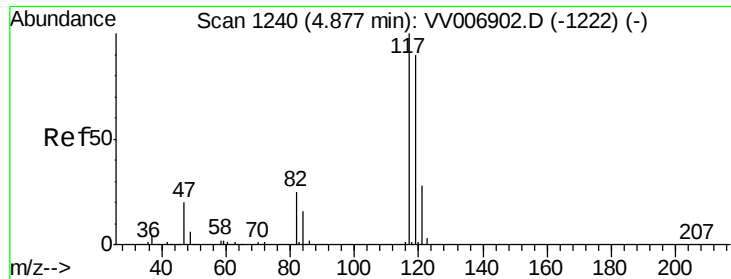
Ion Ratio Lower Upper

56 100

69 28.4 24.2 36.2

84 78.8 65.5 98.3





#31

Carbon tetrachloride

Concen: 19.391 ug/L

RT: 4.88 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

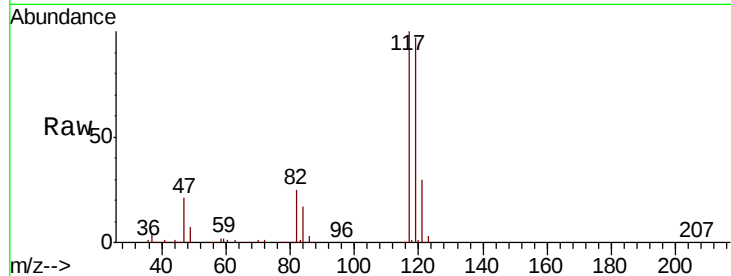
ClientSampleId :

Tot Ion:117 Resp: 377526

Ion Ratio Lower Upper

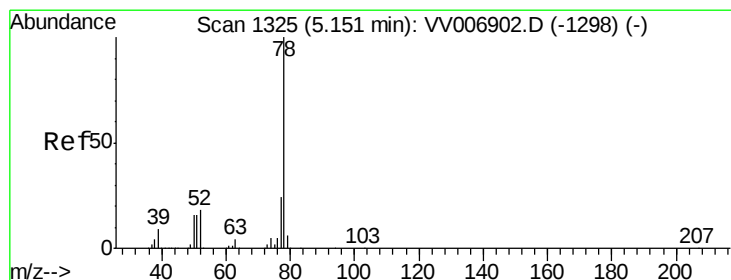
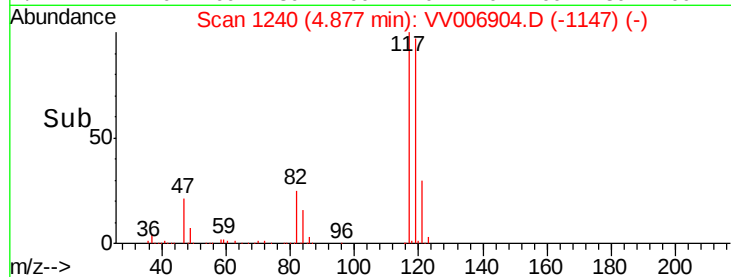
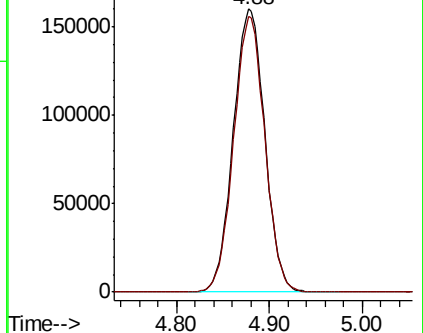
117 100

119 96.1 74.9 112.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 19.628 ug/L

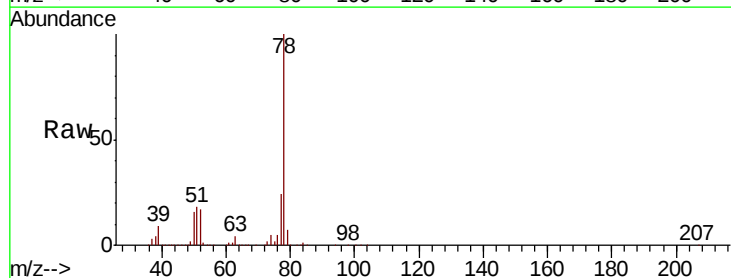
RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

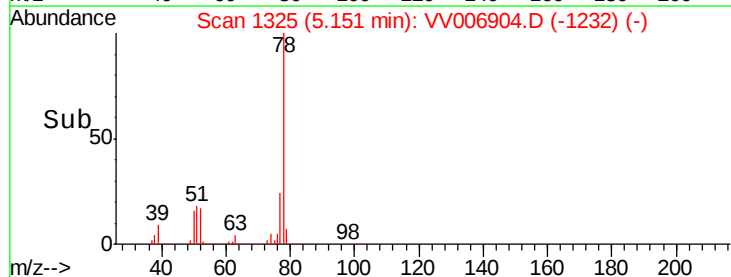
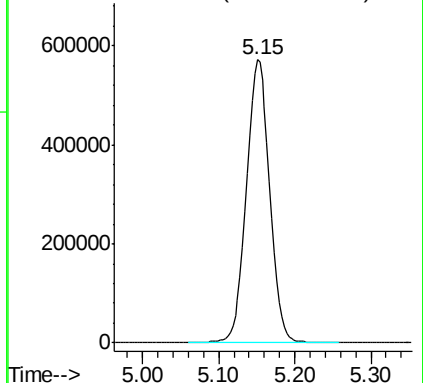
Lab File: VV006904.D

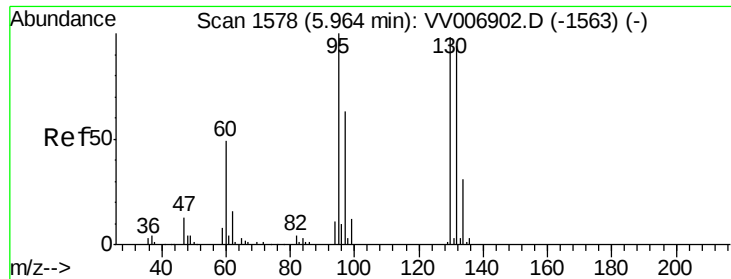
Acq: 07 Aug 2018 18:09

Tgt Ion: 78 Resp: 1219416



Abundance Ion 78.10 (77.80 to 78.80): VV0

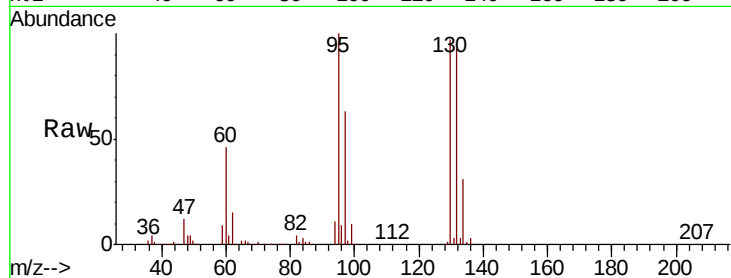




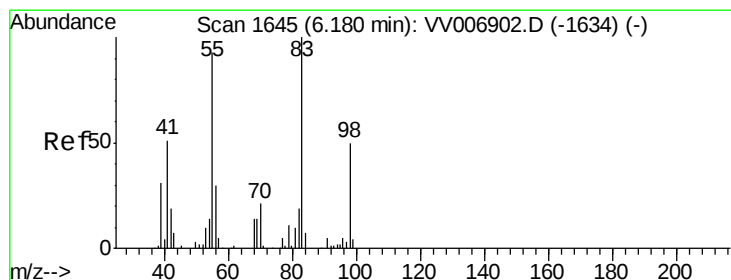
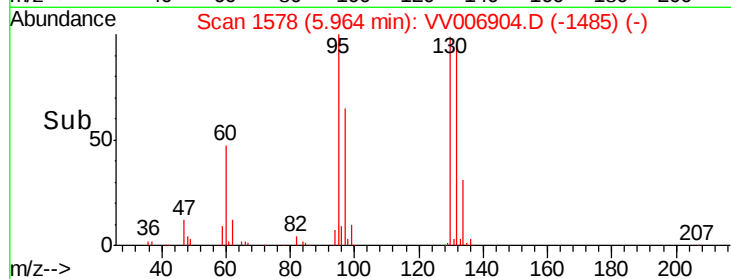
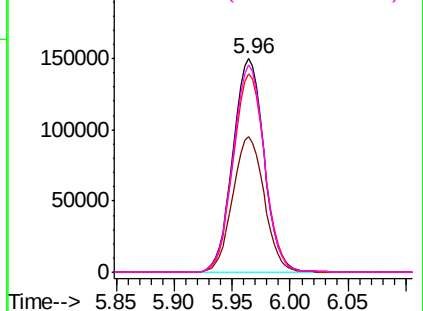
#34
 Trichloroethene
 Concen: 17.934 ug/L
 RT: 5.96 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:	95	Resp:	279514
Ion	Ratio	Lower	Upper
95	100		
97	63.4	44.4	82.4
132	93.2	65.6	121.8
130	96.8	68.8	127.8

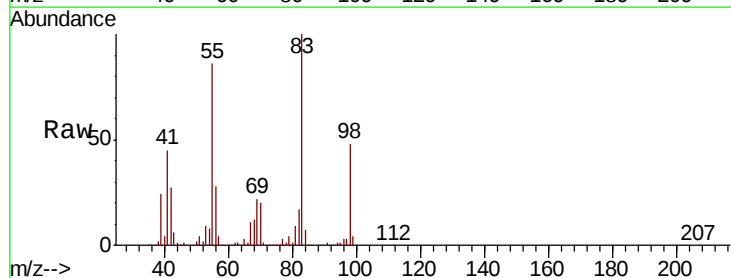


Abundance Ion 95.00 (94.70 to 95.70): VV006904.D (-1563) (-)
 Ion 96.95 (96.65 to 97.65): VV006904.D (-1563) (-)
 Ion 131.95 (131.65 to 132.65): VV006904.D (-1563) (-)
 Ion 129.95 (129.65 to 130.65): VV006904.D (-1563) (-)

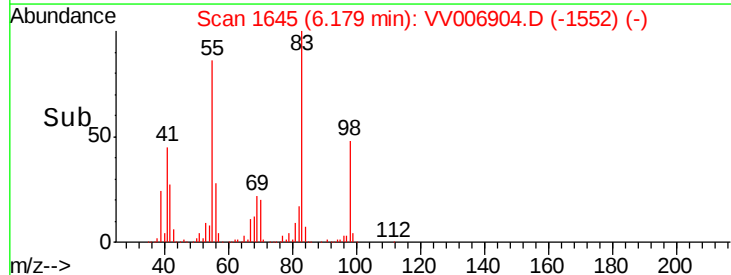
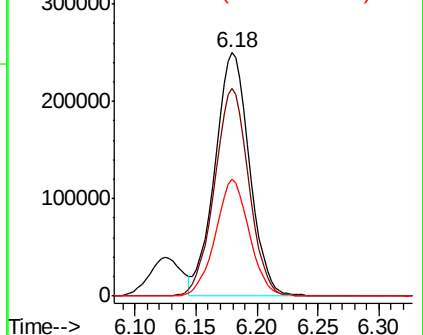


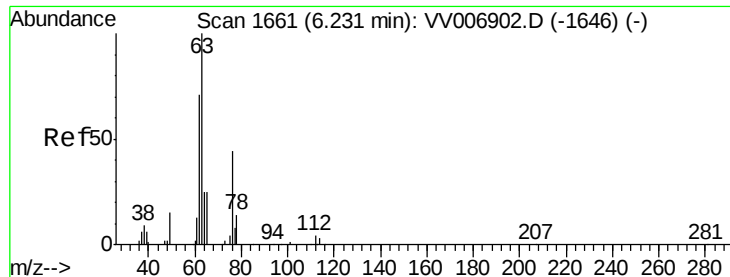
#35
 Methylcyclohexane
 Concen: 20.315 ug/L
 RT: 6.18 min Scan# 1645
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

Tgt Ion:	83	Resp:	496974
Ion	Ratio	Lower	Upper
83	100		
55	85.0	69.8	104.8
98	47.3	36.4	54.6



Abundance Ion 83.15 (82.85 to 83.85): VV006904.D (-1634) (-)
 Ion 55.10 (54.80 to 55.80): VV006904.D (-1634) (-)
 Ion 98.15 (97.85 to 98.85): VV006904.D (-1634) (-)





#37

1,2-Dichloropropane

Concen: 20.792 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

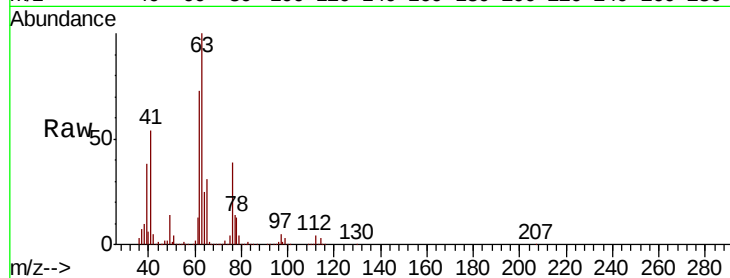
ClientSampleId :

Tot Ion: 63 Resp: 340554

Ion Ratio Lower Upper

63 100

112 3.9 3.5 5.3



Abundance Ion 63.10 (62.80 to 63.80): VV006902.D (-1646) (-)

Ion 112.10 (111.80 to 112.80): VV006902.D (-1646) (-)

200000

150000

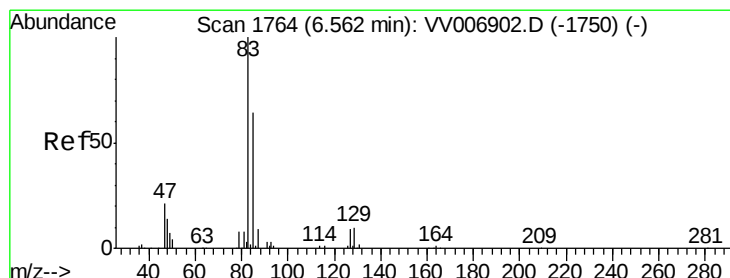
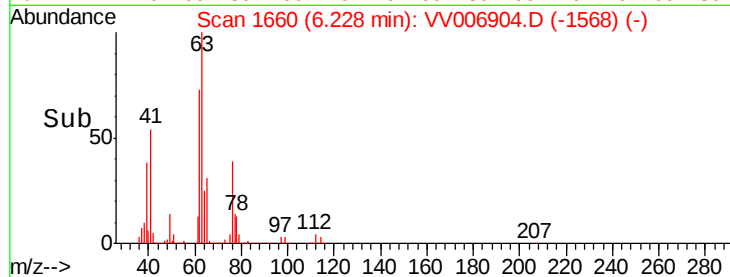
100000

50000

0

6.10 6.20 6.30

Time-->



#38

Bromodichloromethane

Concen: 20.235 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

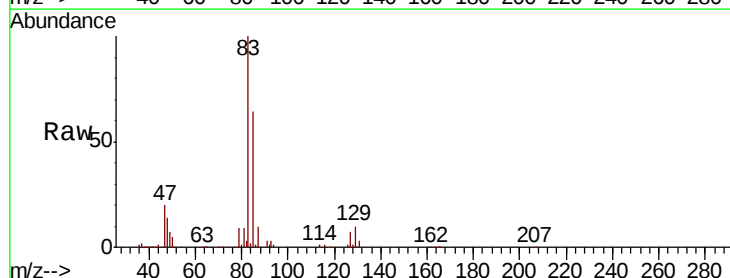
Tgt Ion: 83 Resp: 379917

Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.3

127 7.5 6.9 10.3



Abundance Ion 82.95 (82.65 to 83.65): VV006902.D (-1750) (-)

Ion 85.00 (84.70 to 85.70): VV006902.D (-1750) (-)

Ion 126.90 (126.60 to 127.60): VV006902.D (-1750) (-)

250000

200000

150000

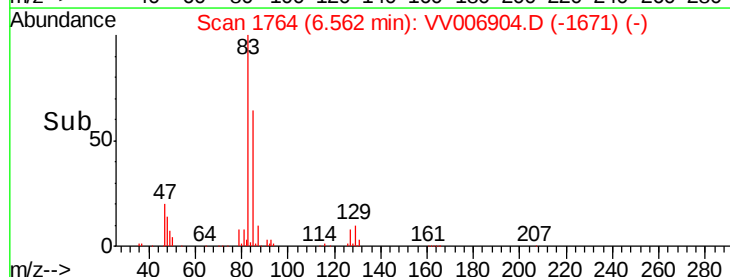
100000

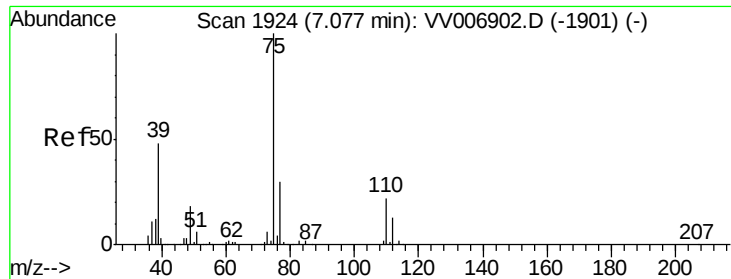
50000

0

6.45 6.50 6.55 6.60 6.65

Time-->

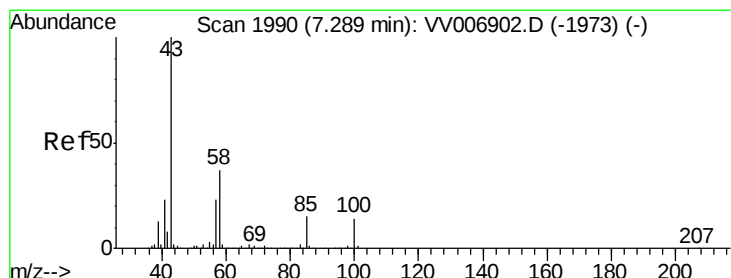
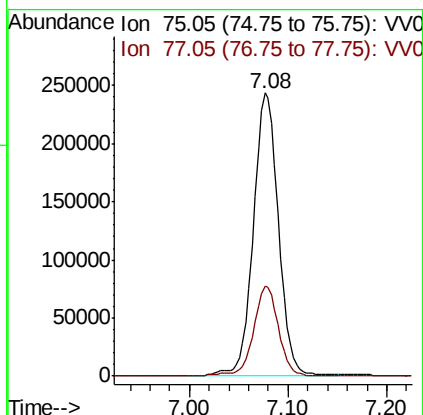
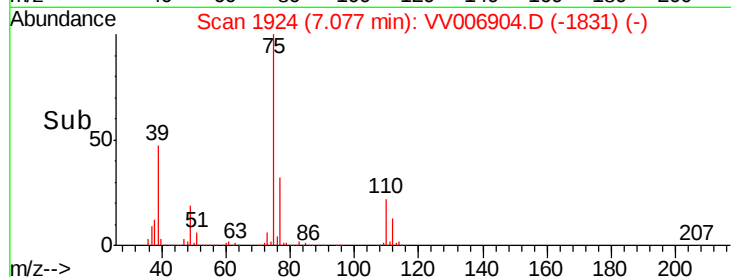
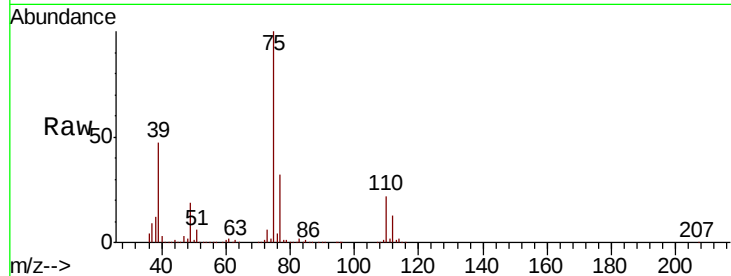




#39
 cis-1,3-Dichloropropene
 Concen: 20.558 ug/L
 RT: 7.08 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

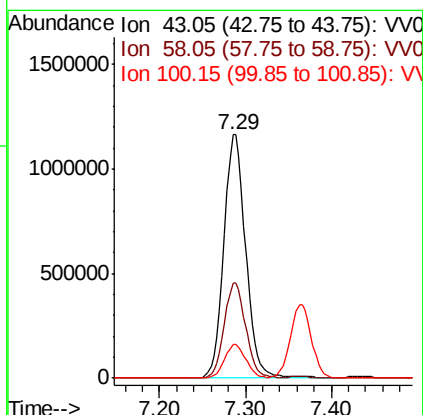
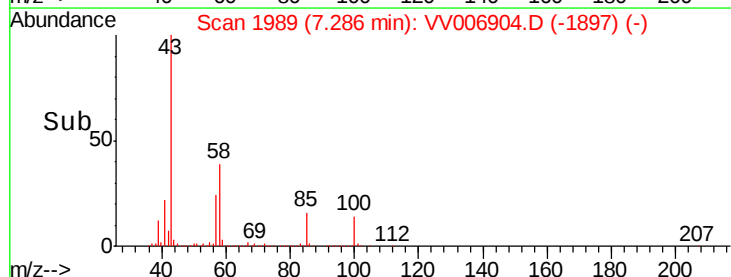
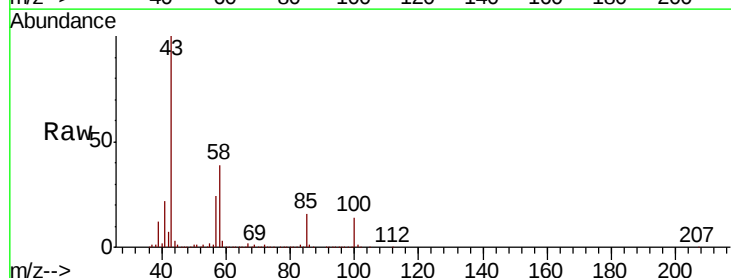
Instrument :
 MSVOA_V
 ClientSampled :

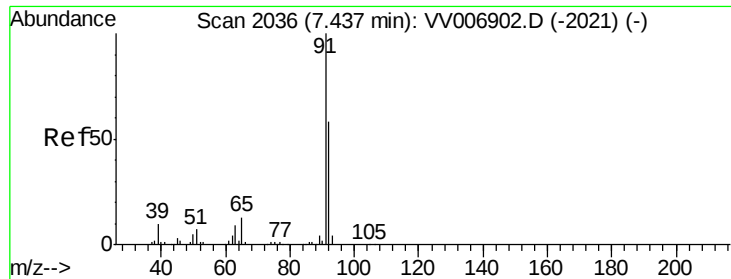
Tot Ion: 75 Resp: 427411
 Ion Ratio Lower Upper
 75 100
 77 31.7 21.2 39.4



#40
 4-Methyl-2-pentanone
 Concen: 224.296 ug/L
 RT: 7.29 min Scan# 1989
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

Tgt Ion: 43 Resp: 2064522
 Ion Ratio Lower Upper
 43 100
 58 38.5 29.0 43.6
 100 13.5 10.5 15.7





#42

Toluene

Concen: 20.142 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

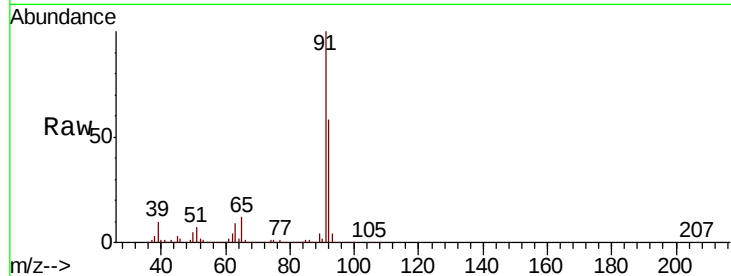
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1222597

Ion Ratio Lower Upper

91 100

92 58.1 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VV006902.D (-2021) (-)

Ion 92.15 (91.85 to 92.85): VV006902.D (-2021) (-)

7.44

800000

600000

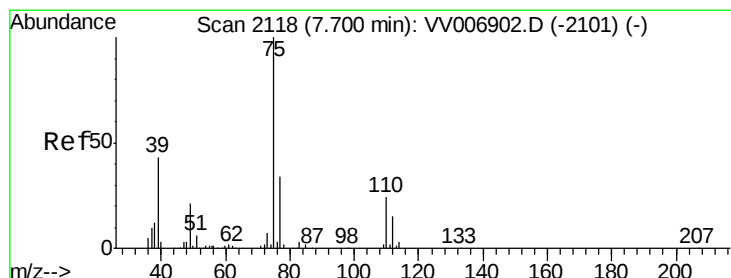
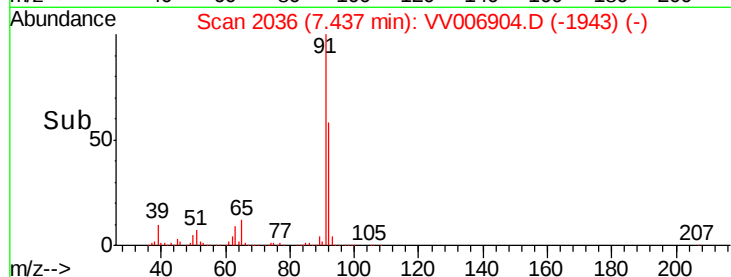
400000

200000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 20.489 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006904.D

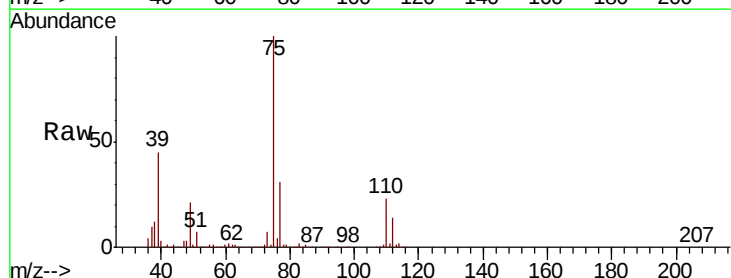
Acq: 07 Aug 2018 18:09

Tgt Ion: 75 Resp: 353691

Ion Ratio Lower Upper

75 100

77 30.9 24.2 45.0



Abundance Ion 75.05 (74.75 to 75.75): VV006902.D (-2101) (-)

Ion 77.05 (76.75 to 77.75): VV006902.D (-2101) (-)

7.70

250000

200000

150000

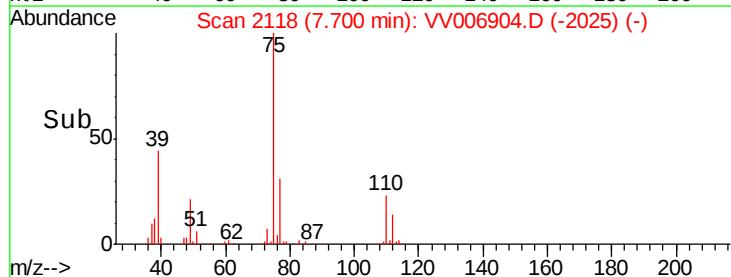
100000

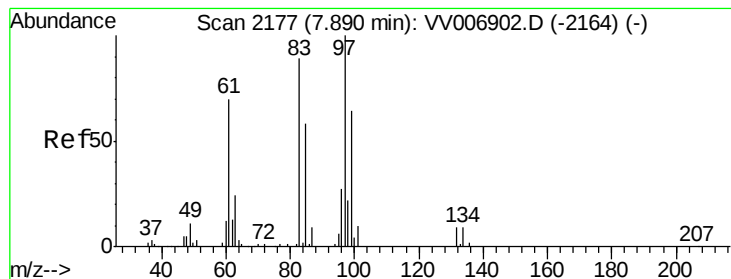
50000

0

7.60 7.70 7.80

Time-->





#45

1,1,2-Trichloroethane

Concen: 17.901 ug/L

RT: 7.89 min Scan# 2177

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 208392

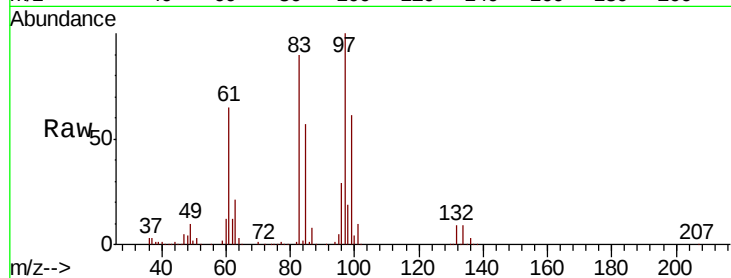
Ion Ratio Lower Upper

97 100

99 60.7 44.7 82.9

83 89.8 62.4 116.0

85 56.7 40.4 75.0



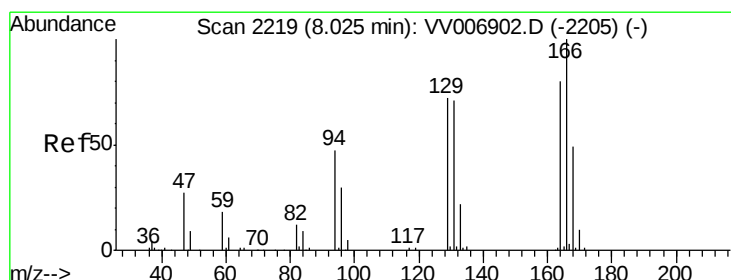
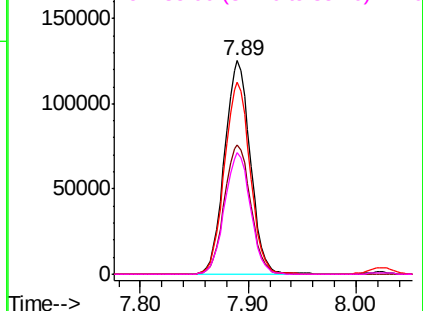
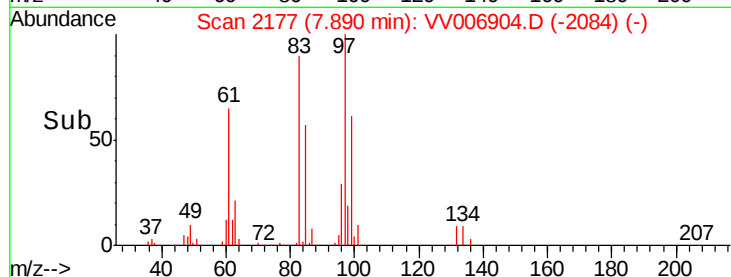
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 17.830 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Tgt Ion:164 Resp: 218182

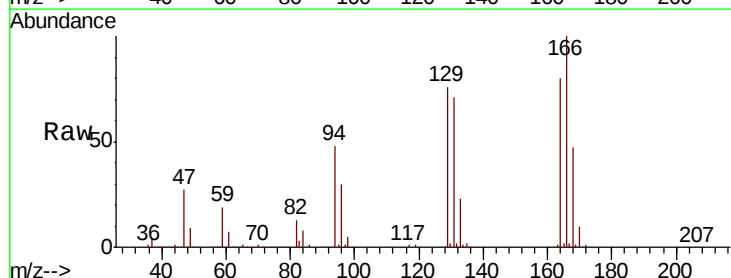
Ion Ratio Lower Upper

164 100

129 95.2 63.1 117.3

131 89.1 62.3 115.7

166 125.5 87.4 162.4



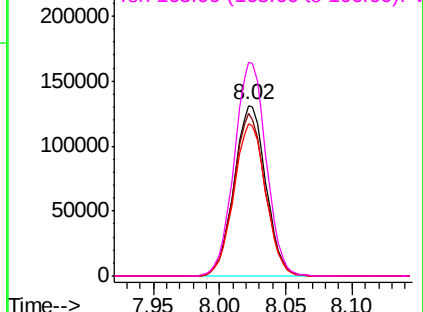
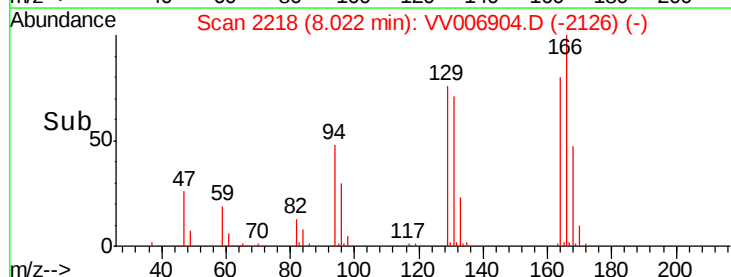
Abundance

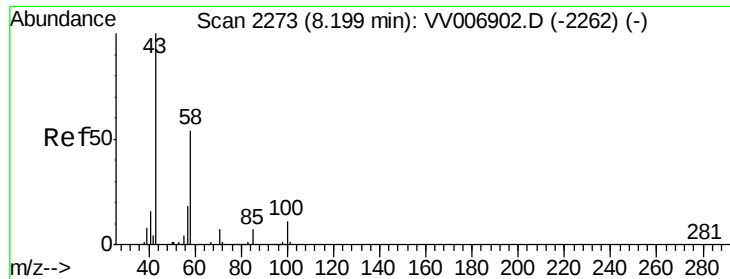
Ion 163.90 (163.60 to 164.60): V

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

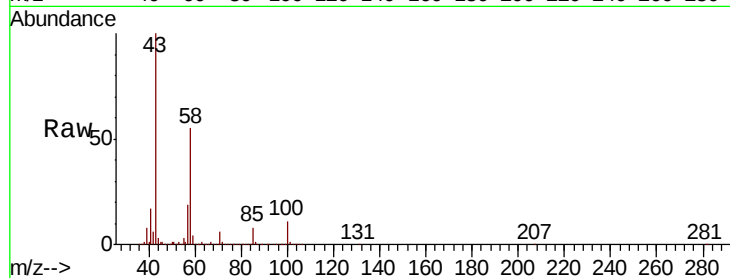




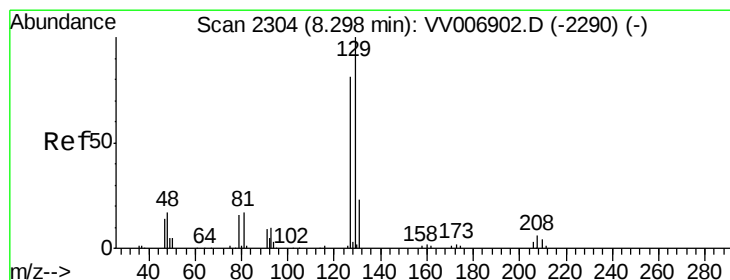
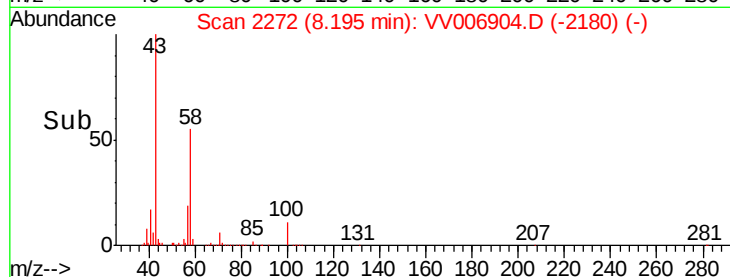
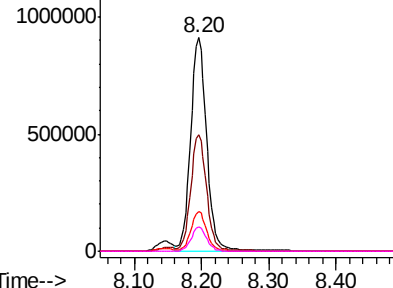
#48
2-Hexanone
Concen: 237.999 ug/L
RT: 8.20 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 1503215
Ion Ratio Lower Upper
43 100
58 53.4 42.0 63.0
57 17.8 14.1 21.1
100 10.8 8.1 12.1

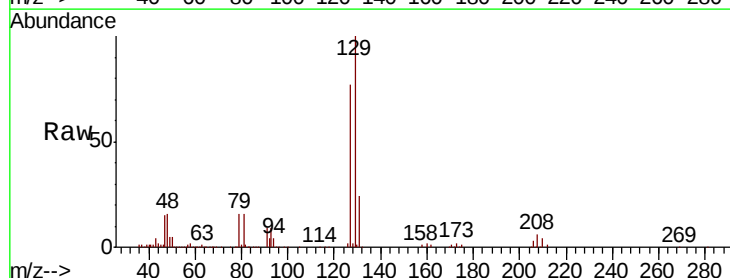


Abundance Ion 43.05 (42.75 to 43.75): VV006904.D (-2180) (-)
Ion 58.05 (57.75 to 58.75): VV006904.D (-2180) (-)
Ion 57.20 (56.90 to 57.90): VV006904.D (-2180) (-)
Ion 100.15 (99.85 to 100.85): VV006904.D (-2180) (-)

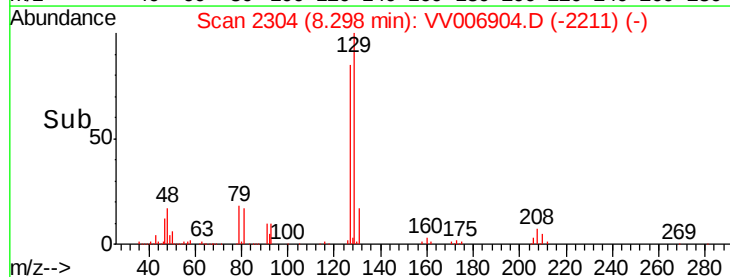
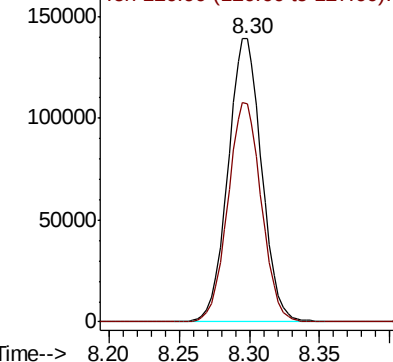


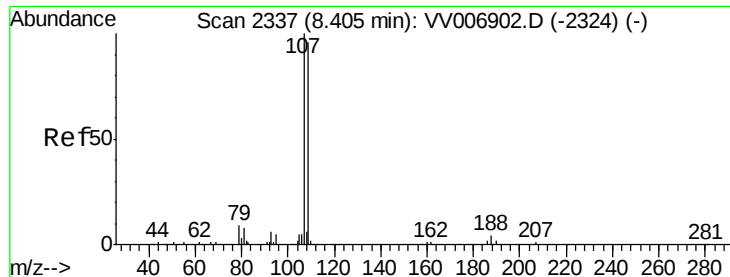
#49
Dibromochloromethane
Concen: 19.568 ug/L
RT: 8.30 min Scan# 2304
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

Tgt Ion: 129 Resp: 232084
Ion Ratio Lower Upper
129 100
127 76.9 57.0 105.8



Abundance Ion 128.95 (128.65 to 129.65): VV006904.D (-2211) (-)
Ion 126.90 (126.60 to 127.60): VV006904.D (-2211) (-)

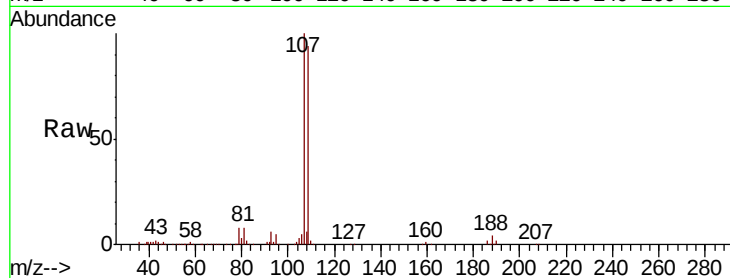




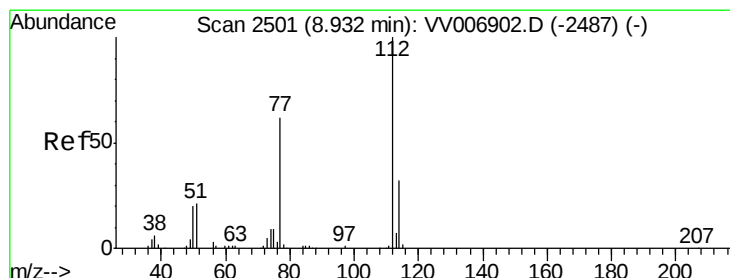
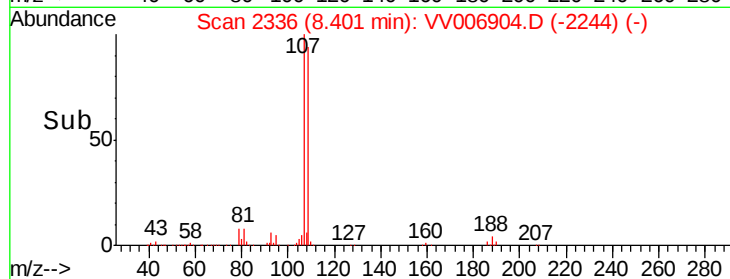
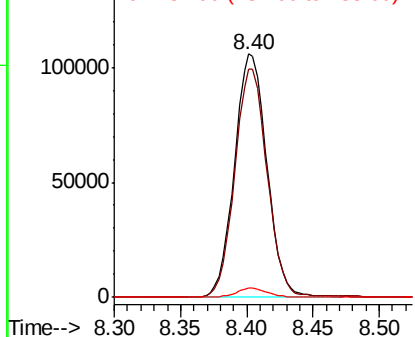
#50
1,2-Dibromoethane
Concen: 18.321 ug/L
RT: 8.40 min Scan# 2336
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

Instrument :
MSVOA_V
ClientSampled :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	67.1	124.7
188	3.7	3.0	4.4

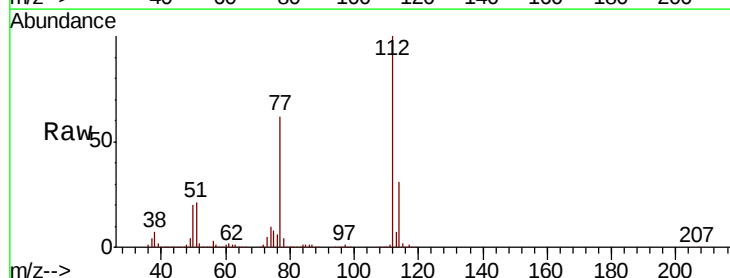


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

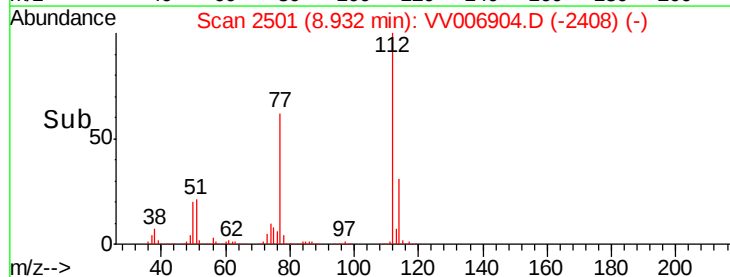
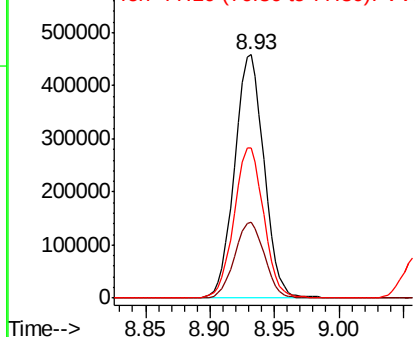


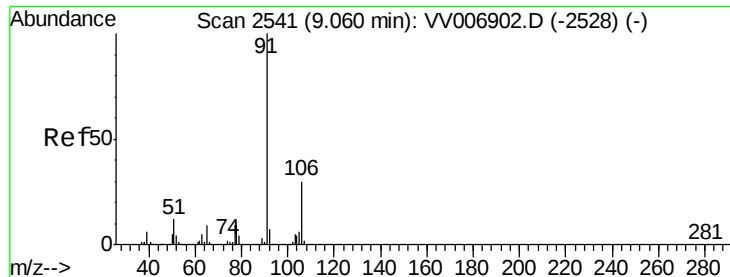
#51
Chlorobenzene
Concen: 18.976 ug/L
RT: 8.93 min Scan# 2501
Delta R.T. -0.00 min
Lab File: VV006904.D
Acq: 07 Aug 2018 18:09

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	22.6	42.0
77	61.6	50.4	75.6



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 20.535 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

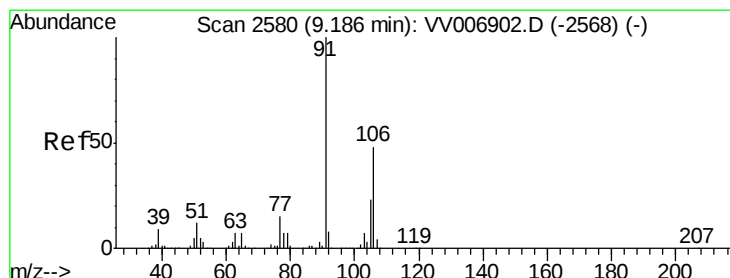
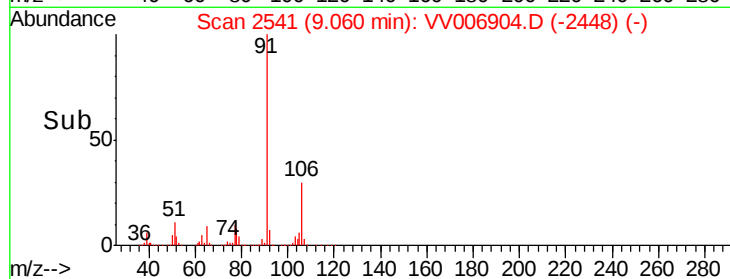
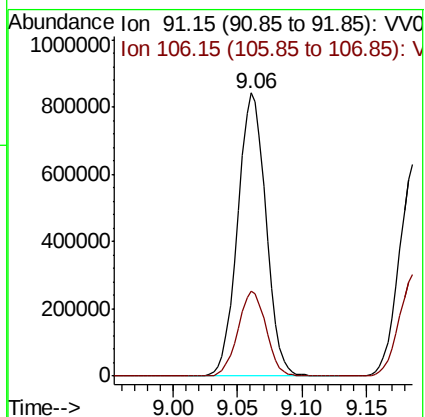
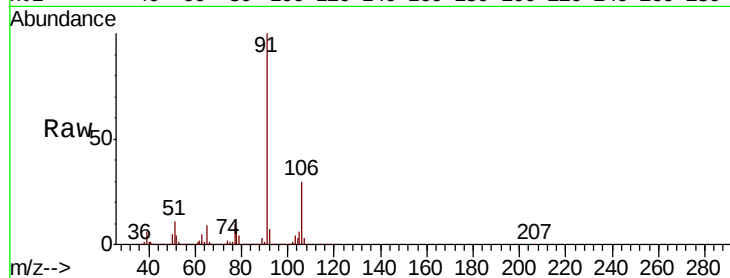
ClientSampleId :

Tot Ion: 91 Resp: 1283270

Ion Ratio Lower Upper

91 100

106 30.0 21.0 39.0



#53

m,p-xylene

Concen: 20.837 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006904.D

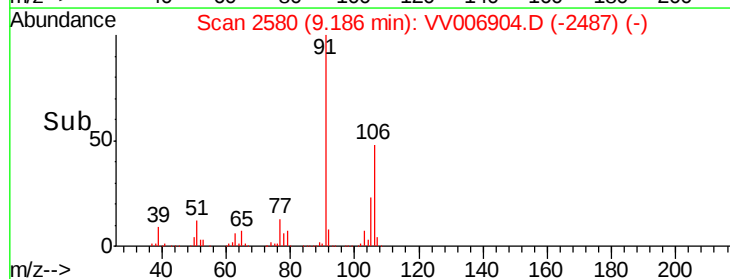
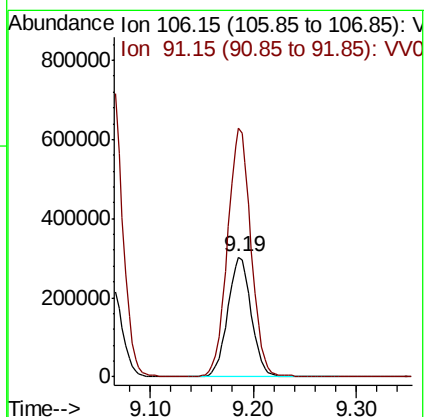
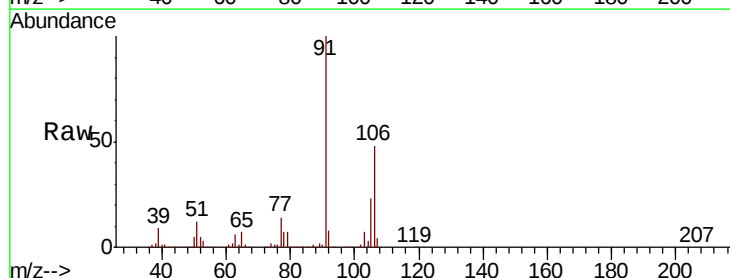
Acq: 07 Aug 2018 18:09

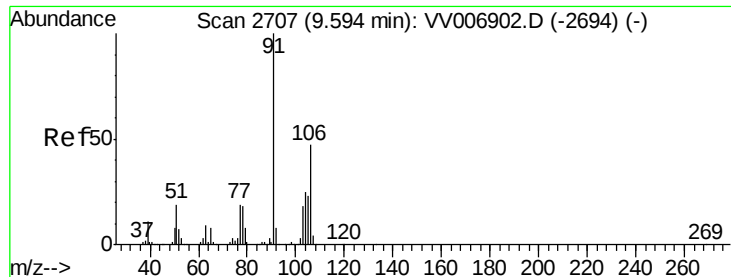
Tgt Ion: 106 Resp: 479487

Ion Ratio Lower Upper

106 100

91 208.1 147.7 274.3





#54

o-xylene

Concen: 19.688 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

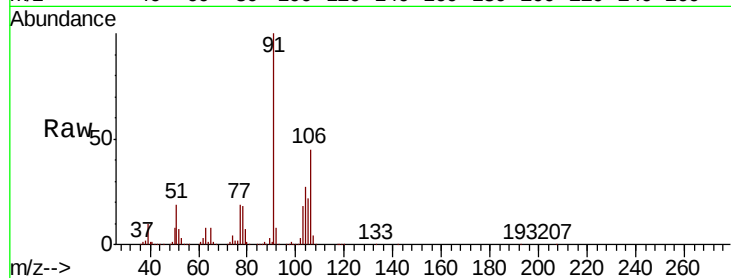
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 457685

Ion Ratio Lower Upper

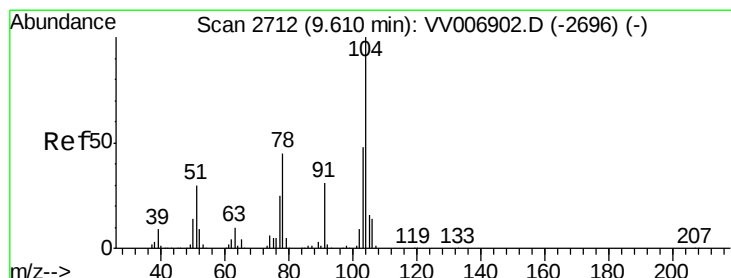
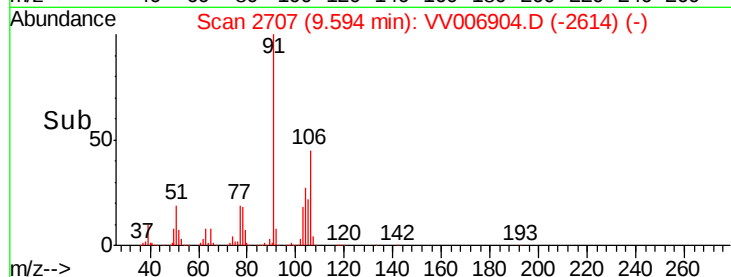
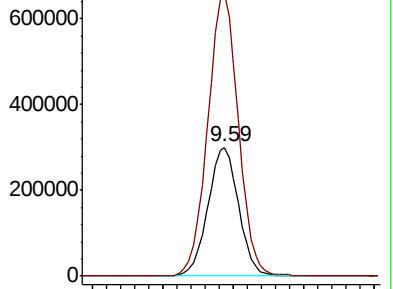
106 100

91 219.8 149.9 278.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 22.153 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. -0.00 min

Lab File: VV006904.D

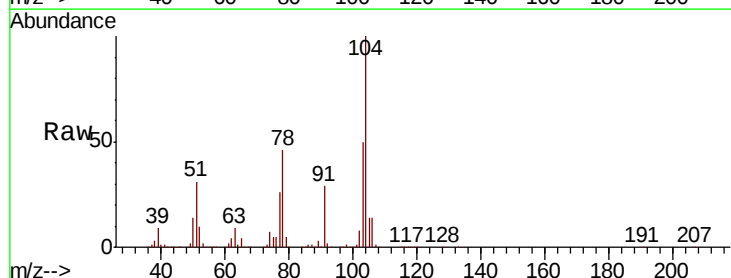
Acq: 07 Aug 2018 18:09

Tgt Ion:104 Resp: 816132

Ion Ratio Lower Upper

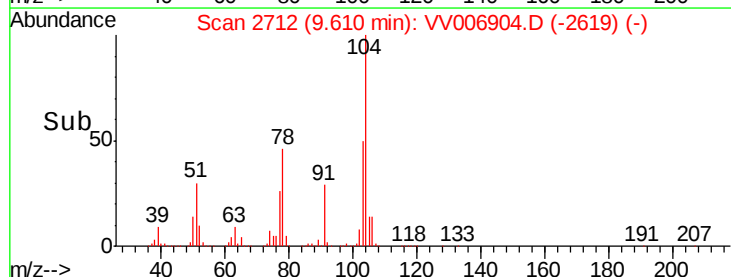
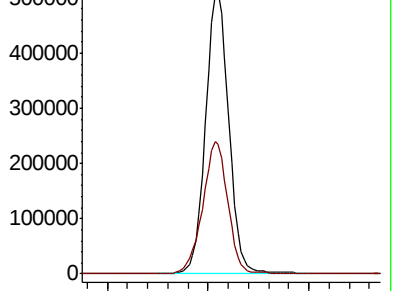
104 100

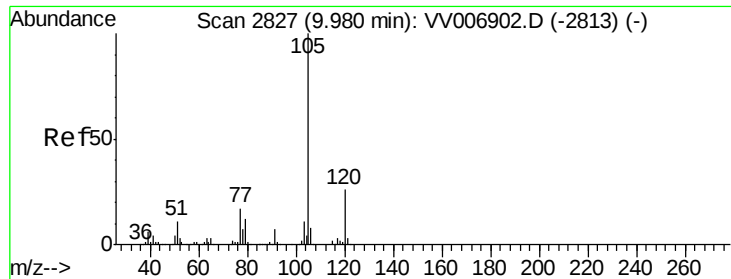
78 45.8 31.8 59.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 20.641 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

ClientSampled :

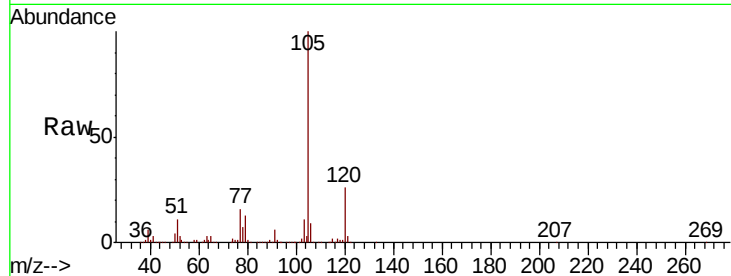
Tot Ion:105 Resp: 1219066

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.6

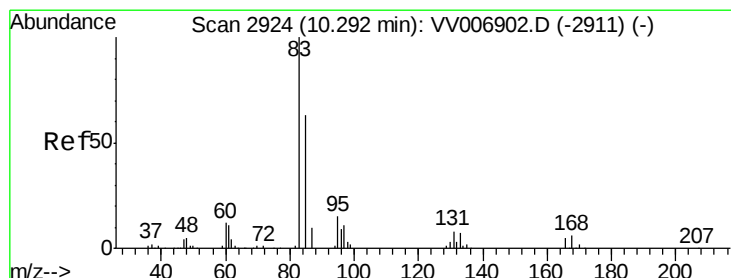
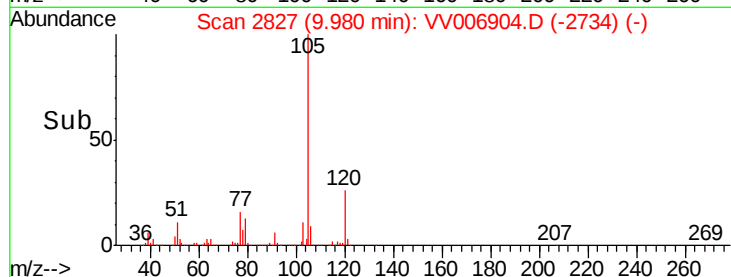
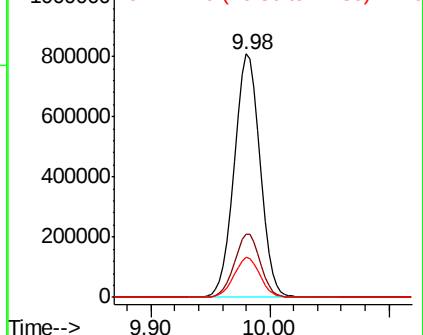
77 16.4 13.7 20.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 18.504 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

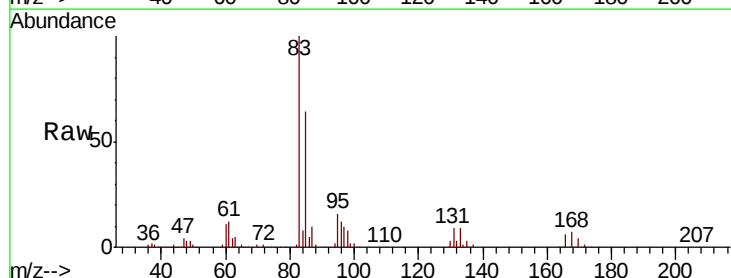
Tgt Ion: 83 Resp: 263662

Ion Ratio Lower Upper

83 100

85 64.3 44.4 82.4

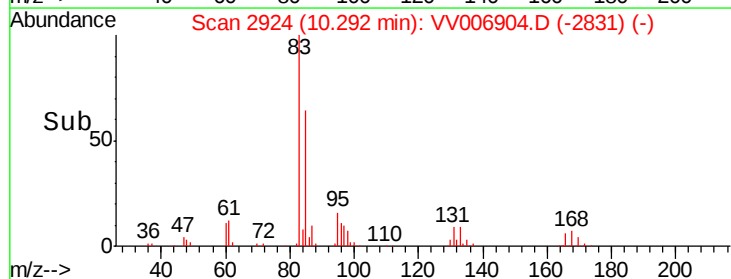
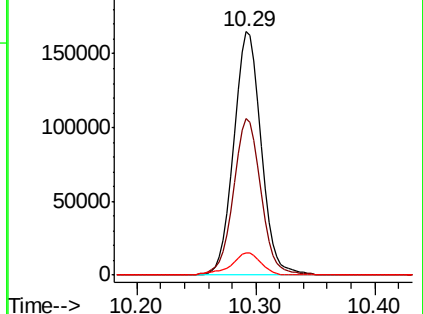
131 9.1 6.6 9.8

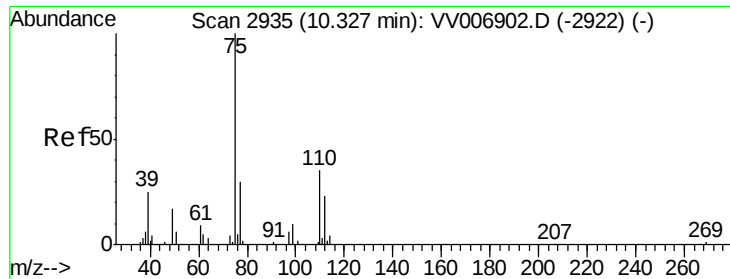


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 19.213 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

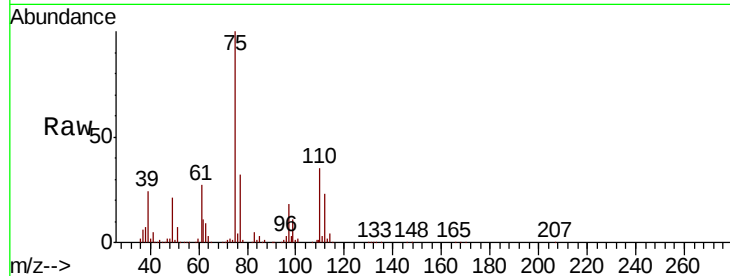
ClientSampleId :

Tot Ion: 75 Resp: 192434

Ion Ratio Lower Upper

75 100

77 31.1 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VV006902.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV006902.D (-2922) (-)

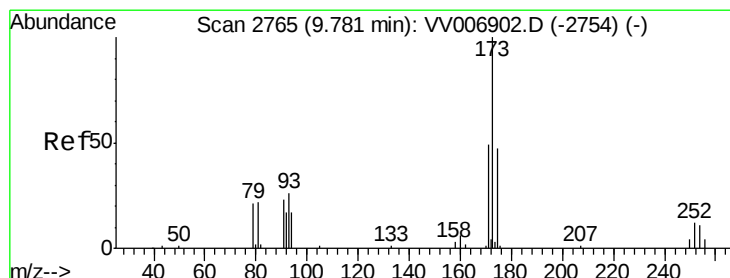
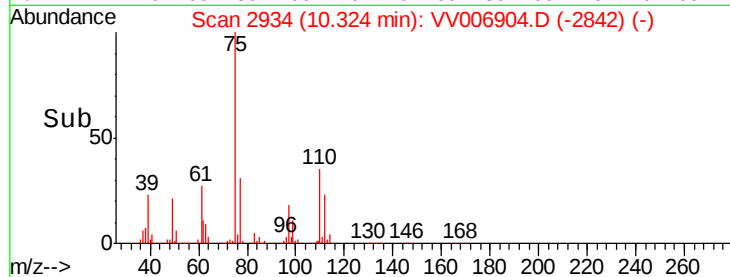
10.32

100000

50000

0

Time-->



#61

Bromoform

Concen: 18.808 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

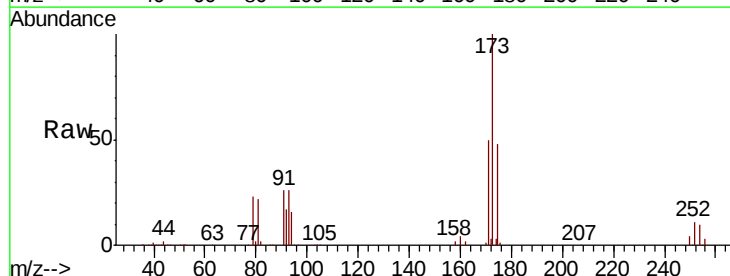
Tgt Ion: 173 Resp: 123056

Ion Ratio Lower Upper

173 100

175 48.1 37.9 56.9

254 11.0 8.0 12.0



Abundance Ion 172.90 (172.60 to 173.60): VV006902.D (-2754) (-)

Ion 174.90 (174.60 to 175.60): VV006902.D (-2754) (-)

Ion 253.75 (253.45 to 254.45): VV006902.D (-2754) (-)

9.78

100000

80000

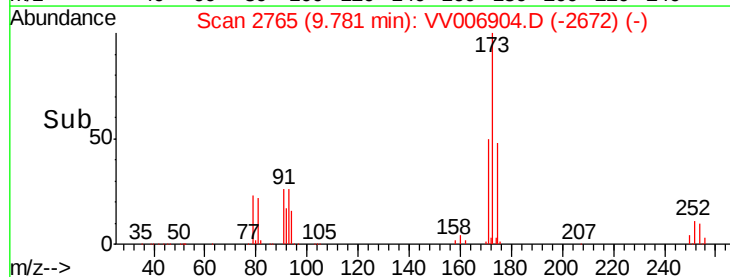
60000

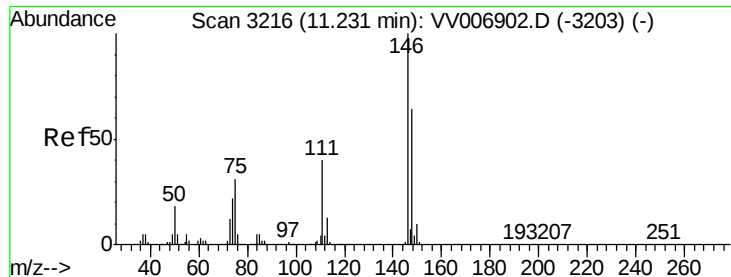
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 17.585 ug/L

RT: 11.23 min Scan# 3217

Delta R.T. 0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

ClientSampled :

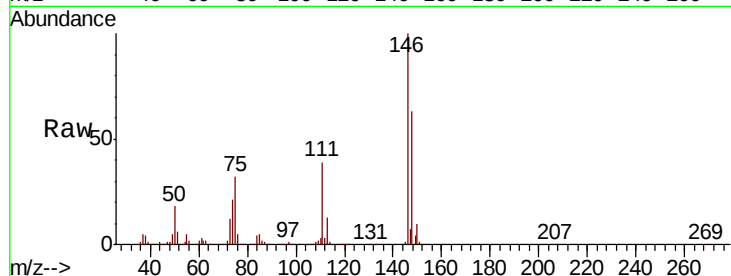
Tot Ion:146 Resp: 516133

Ion Ratio Lower Upper

146 100

111 38.8 28.1 52.1

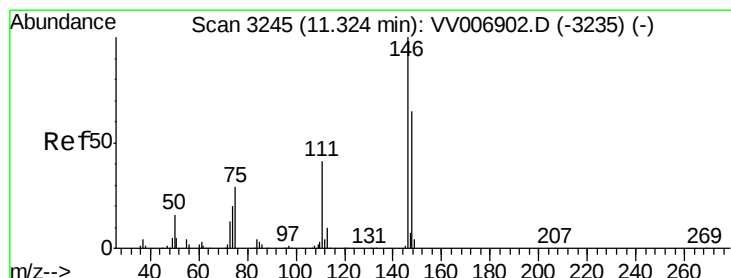
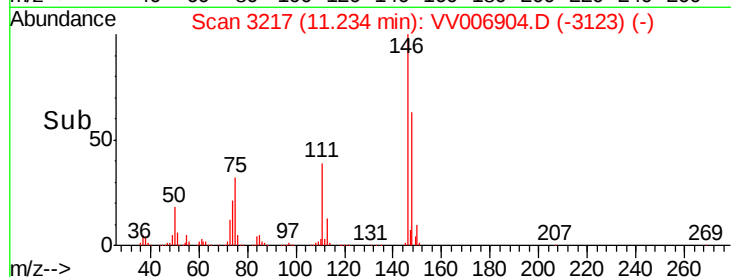
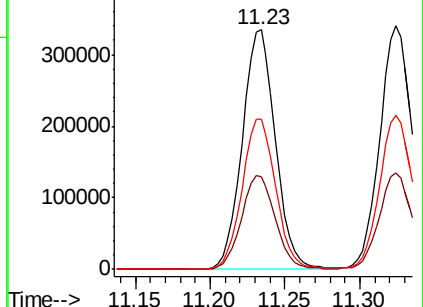
148 62.7 45.0 83.6



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: 18.175 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

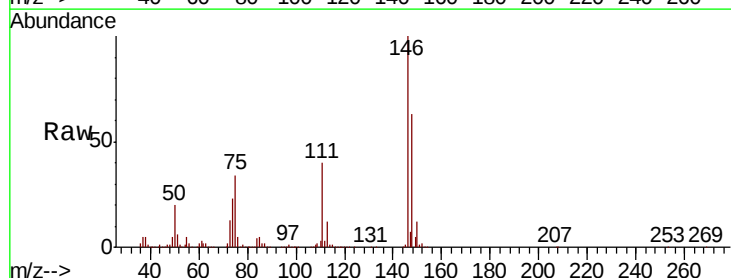
Tgt Ion:146 Resp: 528141

Ion Ratio Lower Upper

146 100

111 39.7 29.0 53.9

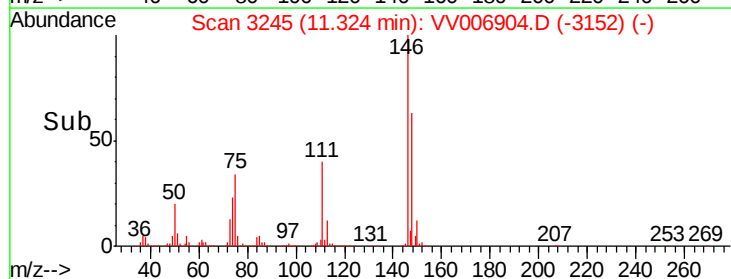
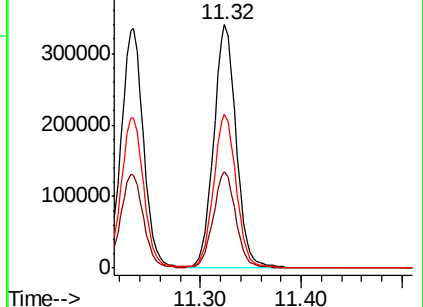
148 63.3 45.7 84.9

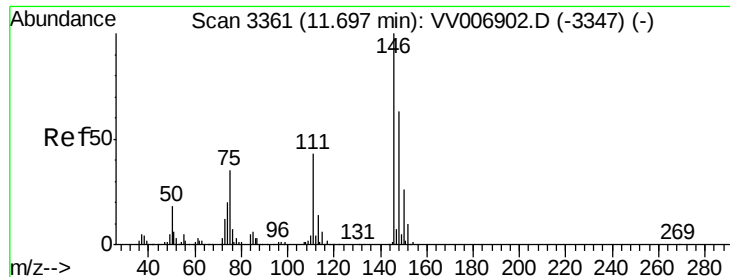


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

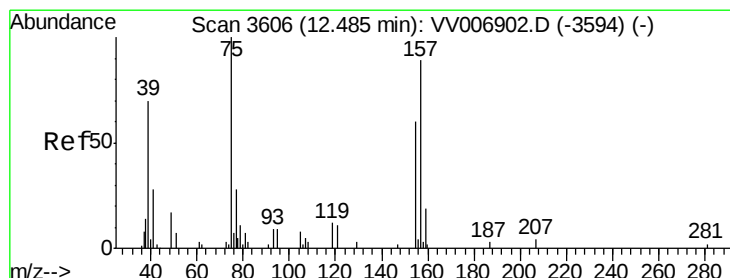
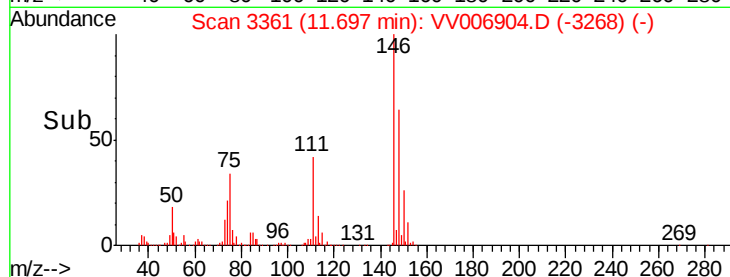
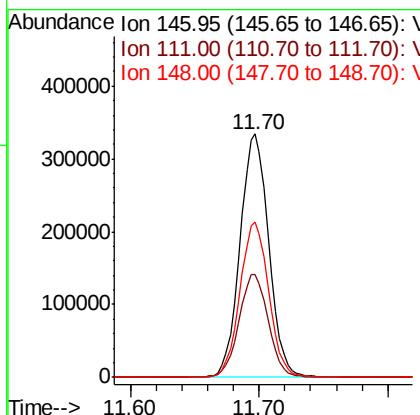
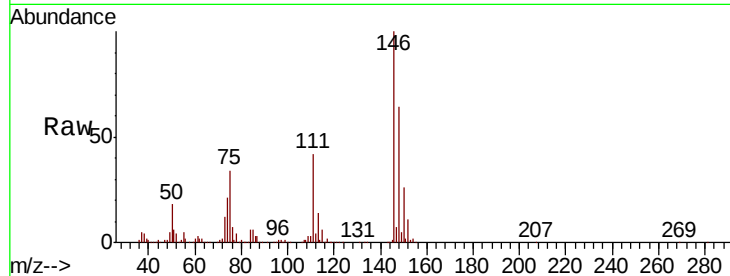




#65
 1,2-Dichlorobenzene
 Concen: 17.892 ug/L
 RT: 11.70 min Scan# 3361
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

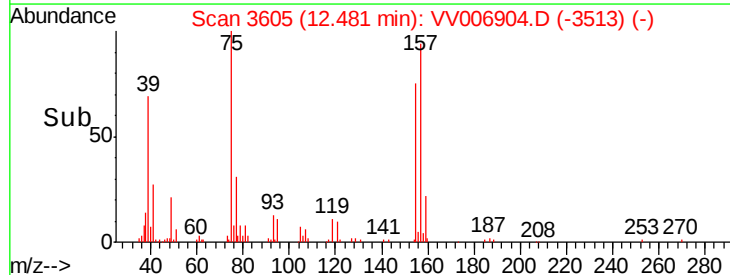
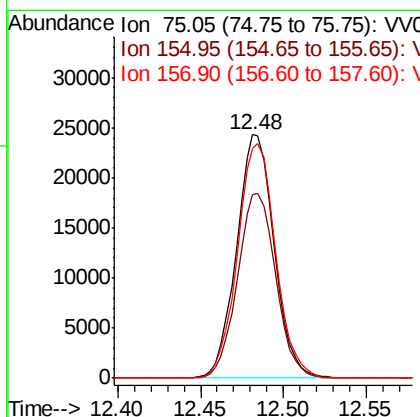
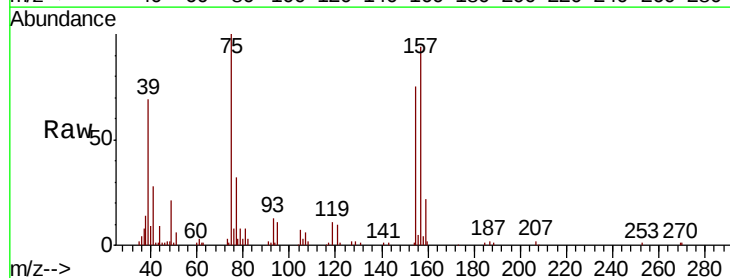
Instrument :
 MSVOA_V
 ClientSampled :

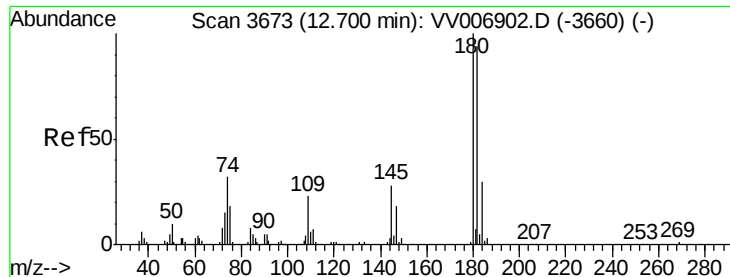
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	34.5	51.7
148	63.9	50.3	75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 17.954 ug/L
 RT: 12.48 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.2	48.1	72.1#
157	94.2	71.4	107.0

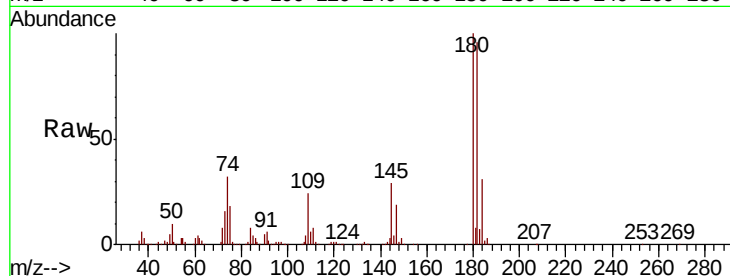




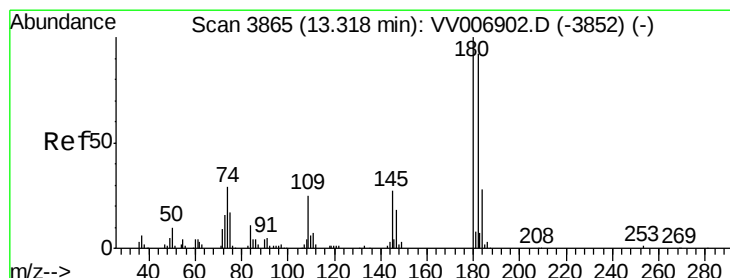
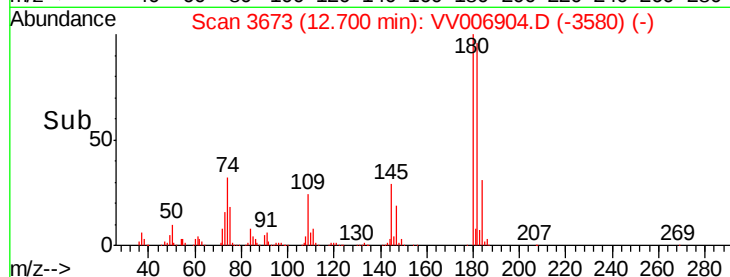
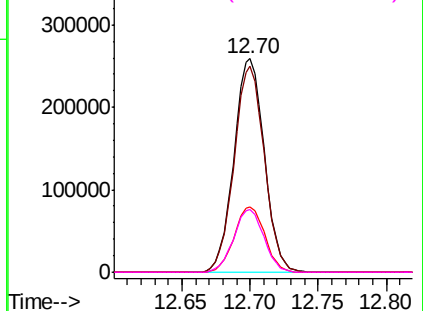
#67
 1,3,5-Trichlorobenzene
 Concen: 17.759 ug/L
 RT: 12.70 min Scan# 3673
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180	Resp:	399642
Ion Ratio	Lower	Upper
180	100	
182	96.1	75.8 113.8
184	30.8	23.8 35.6
145	29.2	22.4 33.6

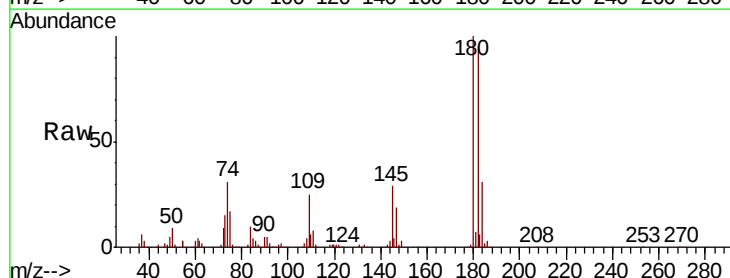


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

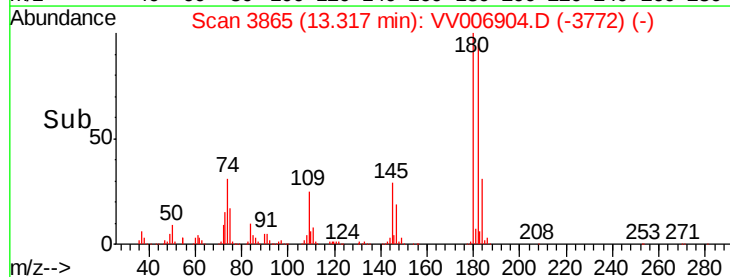
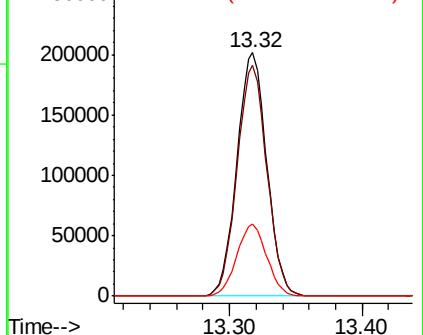


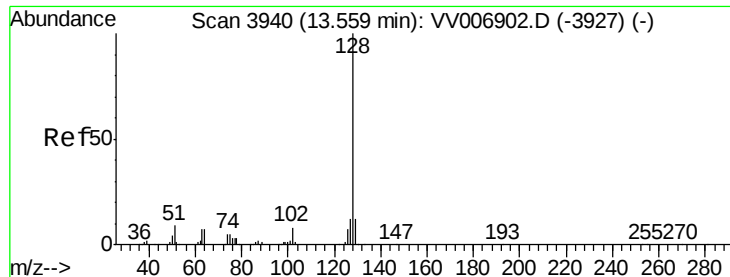
#68
 1,2,4-trichlorobenzene
 Concen: 18.137 ug/L
 RT: 13.32 min Scan# 3865
 Delta R.T. -0.00 min
 Lab File: VV006904.D
 Acq: 07 Aug 2018 18:09

Tgt Ion:180	Resp:	314591
Ion Ratio	Lower	Upper
180	100	
182	94.7	71.8 107.8
145	29.7	21.0 31.6



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 17.720 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

Instrument :

MSVOA_V

ClientSampleId :

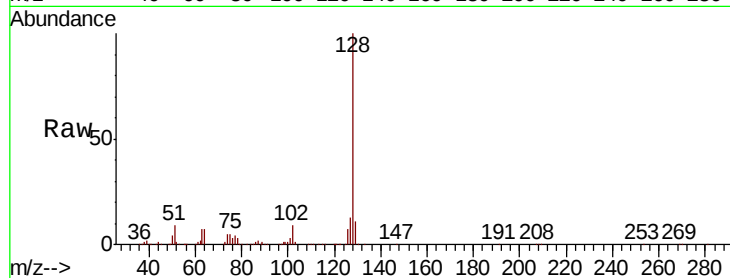
Tot Ion:128 Resp: 523688

Ion Ratio Lower Upper

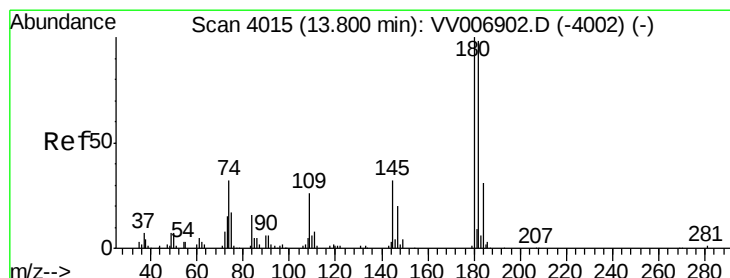
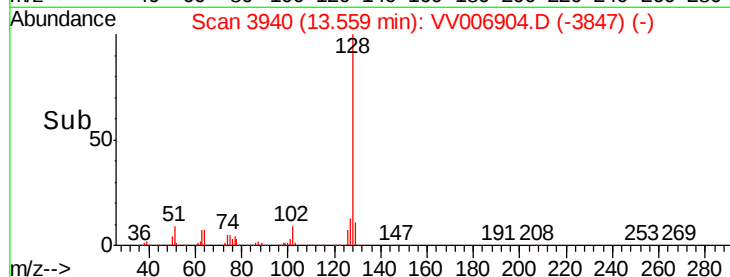
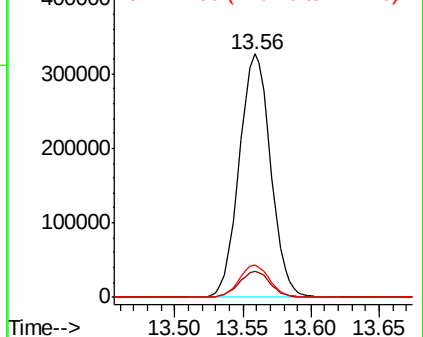
128 100

129 10.7 9.3 13.9

127 12.9 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 18.620 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006904.D

Acq: 07 Aug 2018 18:09

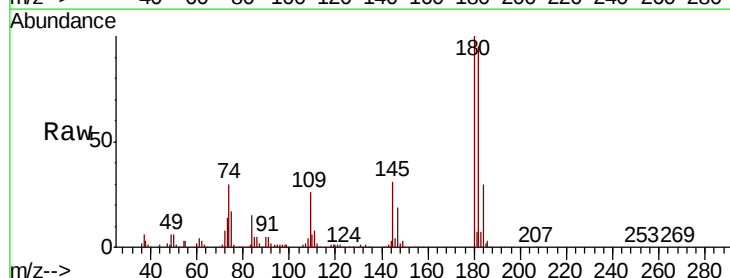
Tgt Ion:180 Resp: 310847

Ion Ratio Lower Upper

180 100

182 94.7 77.0 115.6

145 31.3 25.0 37.6



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

