

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072718\
 Data File : VV006733.D
 Acq On : 27 Jul 2018 18:25
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25 mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 28 02:29:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jul 28 02:24:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	229488	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	213258	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	98249	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	62878	5.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	105.20%
7) Chloroethane-d5	1.58	69	47788	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.00%
11) 1,1-Dichloroethene-d2	2.13	63	122364	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	104.40%
20) 2-Butanone-d5	3.96	46	171437	45.94	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	91.88%
24) Chloroform-d	4.40	84	117304	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
26) 1,2-Dichloroethane-d4	5.09	65	57386	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
32) Benzene-d6	5.10	84	235450	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.40%
36) 1,2-Dichloropropane-d6	6.12	67	76356	5.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.20%
41) Toluene-d8	7.36	98	214318	5.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.80%
43) trans-1,3-Dichloropropene-	7.67	79	26317	5.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.80%
46) 2-Hexanone-d5	8.14	63	144927	47.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.74%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	58928	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	76332	5.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	94752	4.588 ug/L	# 86
3) Chloromethane	1.25	50	92261	5.262 ug/L	99
5) Vinyl chloride	1.32	62	105319	4.796 ug/L	98
6) Bromomethane	1.53	94	30213	5.622 ug/L	99
8) Chloroethane	1.59	64	55474	4.615 ug/L	99
9) Trichlorofluoromethane	1.76	101	124136	4.927 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	77887	5.073 ug/L	100
12) 1,1-Dichloroethene	2.14	96	72752	4.839 ug/L	91
13) Acetone	2.20	43	118790	50.030 ug/L	99
14) Carbon disulfide	2.31	76	226981	4.490 ug/L	99
15) Methyl Acetate	2.47	43	34115	4.847 ug/L	100
16) Methylene chloride	2.54	84	80631	4.679 ug/L	98
17) Methyl tert-butyl Ether	2.81	73	186987	5.070 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	79976	4.898 ug/L	98
19) 1,1-Dichloroethane	3.23	63	147936	4.925 ug/L	100
21) 2-Butanone	4.04	43	198656	49.951 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	82989	4.874 ug/L	96

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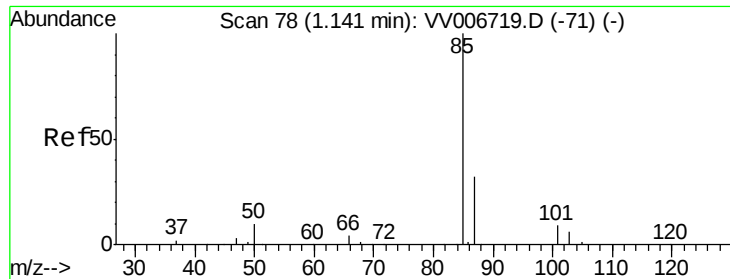
Instrument :
 MSVOA_V
 ClientSampleId :

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072318WMA.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	35532	5.071	ug/L	98
25) Chloroform	4.43	83	139223	4.939	ug/L	95
27) 1,2-Dichloroethane	5.19	62	82718	5.002	ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	115171	5.020	ug/L	99
30) Cyclohexane	4.72	56	121836	4.743	ug/L	99
31) Carbon tetrachloride	4.87	117	98672	5.031	ug/L	99
33) Benzene	5.15	78	321592	5.016	ug/L	100
34) Trichloroethene	5.96	95	80044	4.946	ug/L	98
35) Methylcyclohexane	6.18	83	130670	4.833	ug/L	100
37) 1,2-Dichloropropane	6.23	63	80619	4.898	ug/L	100
38) Bromodichloromethane	6.56	83	91736	4.990	ug/L	98
39) cis-1,3-Dichloropropene	7.08	75	106416	4.964	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	468106	51.741	ug/L	100
42) Toluene	7.44	91	331004	5.014	ug/L	98
44) trans-1,3-Dichloropropene	7.70	75	83874	4.975	ug/L	99
45) 1,1,2-Trichloroethane	7.89	97	56149	5.066	ug/L	100
47) Tetrachloroethene	8.02	164	63768	4.961	ug/L	99
48) 2-Hexanone	8.19	43	331126	52.453	ug/L	100
49) Dibromochloromethane	8.30	129	60154	5.128	ug/L	99
50) 1,2-Dibromoethane	8.40	107	51226	5.171	ug/L	99
51) Chlorobenzene	8.93	112	210230	4.896	ug/L	100
52) Ethylbenzene	9.06	91	348149	4.947	ug/L	100
53) m,p-xylene	9.19	106	132497	4.987	ug/L	99
54) o-xylene	9.59	106	127776	4.937	ug/L	97
55) Styrene	9.61	104	221149	5.066	ug/L	96
56) Isopropylbenzene	9.98	105	335549	4.993	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	66549	4.908	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	48955	5.054	ug/L	100
61) Bromoform	9.78	173	31127	5.213	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	149758	4.931	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	152072	4.913	ug/L	98
65) 1,2-Dichlorobenzene	11.70	146	148545	5.021	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	8924	5.040	ug/L	96
67) 1,3,5-Trichlorobenzene	12.70	180	114284	4.928	ug/L	99
68) 1,2,4-trichlorobenzene	13.32	180	88361	4.797	ug/L	99
69) Naphthalene	13.56	128	150480	4.774	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	85595	4.910	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.588 ug/L

RT: 1.14 min Scan# 77

Delta R.T. -0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

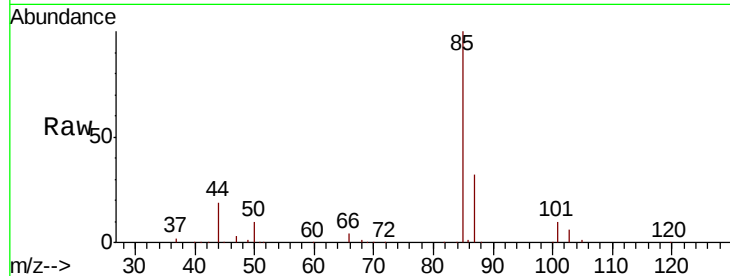
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 94752

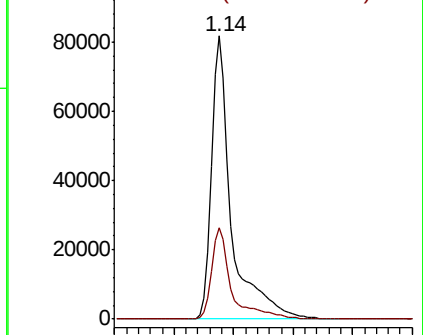
Ion Ratio Lower Upper

85 100

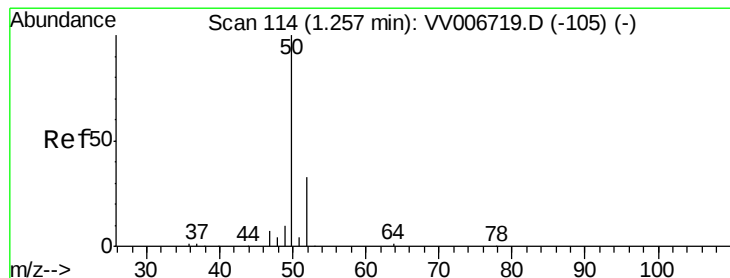
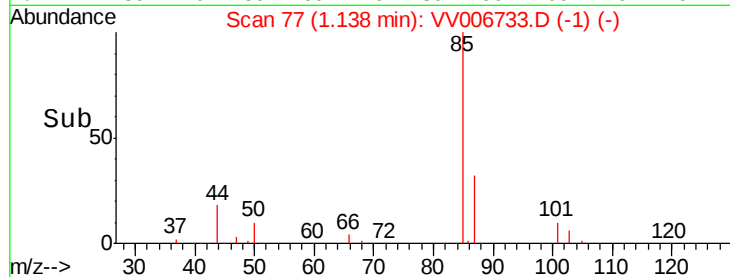
87 31.9 19.9 29.9#



Abundance Ion 85.00 (84.70 to 85.70): VV006733.D (-71) (-)



Time--> 1.05 1.10 1.15 1.20 1.25



#3

Chloromethane

Concen: 5.262 ug/L

RT: 1.25 min Scan# 113

Delta R.T. -0.00 min

Lab File: VV006733.D

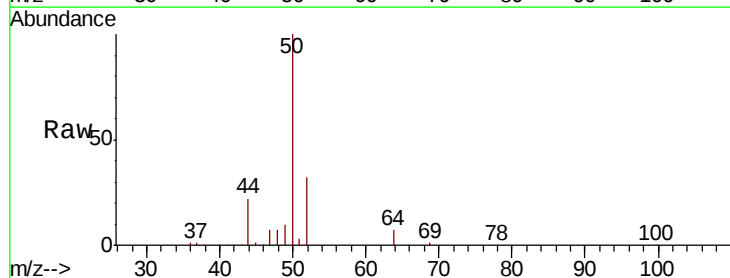
Acq: 27 Jul 2018 18:25

Tgt Ion: 50 Resp: 92261

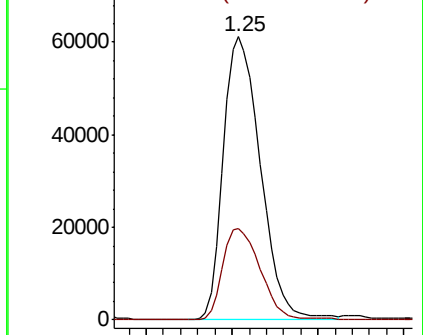
Ion Ratio Lower Upper

50 100

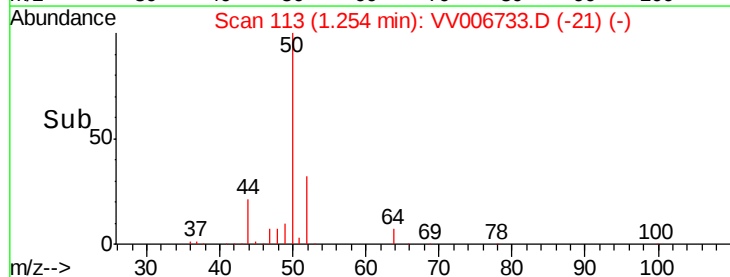
52 32.4 22.1 41.1

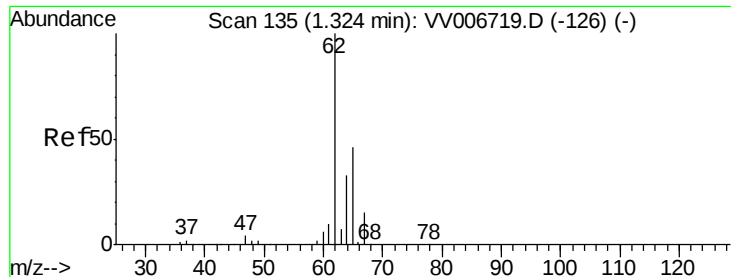


Abundance Ion 50.05 (49.75 to 50.75): VV006733.D (-105) (-)



Time--> 1.20 1.25 1.30





#5

Vinyl chloride

Concen: 4.796 ug/L

RT: 1.32 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

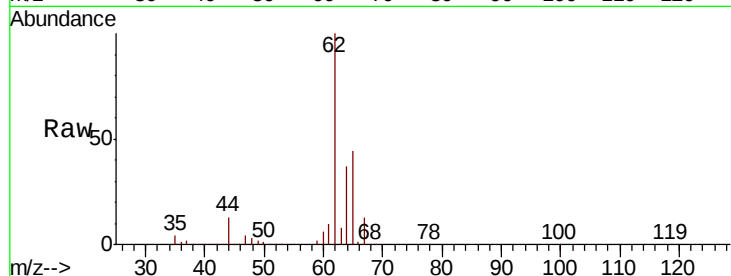
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 105319

Ion Ratio Lower Upper

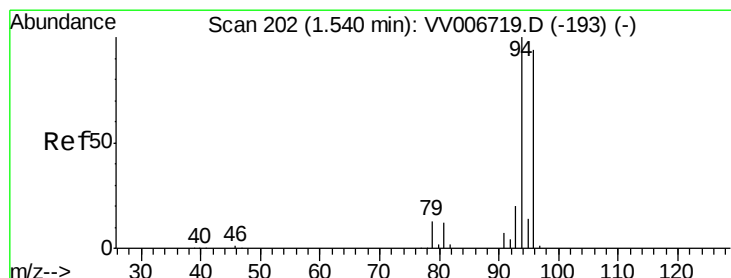
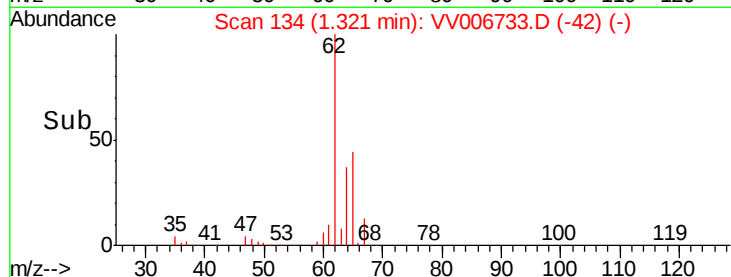
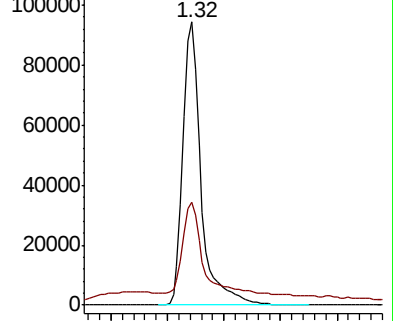
62 100

64 36.5 26.5 49.3



Abundance Ion 62.00 (61.70 to 62.70): VV006719.D (-126) (-)

Ion 64.10 (63.80 to 64.80): VV006719.D (-126) (-)



#6

Bromomethane

Concen: 5.622 ug/L

RT: 1.53 min Scan# 200

Delta R.T. -0.01 min

Lab File: VV006733.D

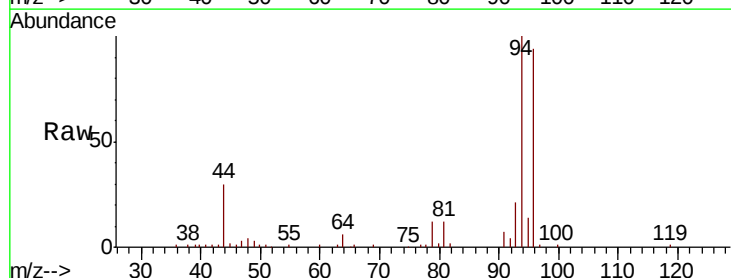
Acq: 27 Jul 2018 18:25

Tgt Ion: 94 Resp: 30213

Ion Ratio Lower Upper

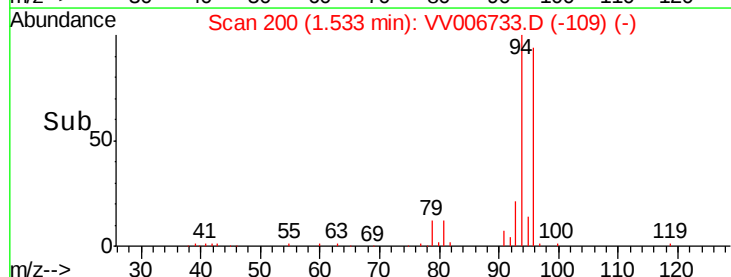
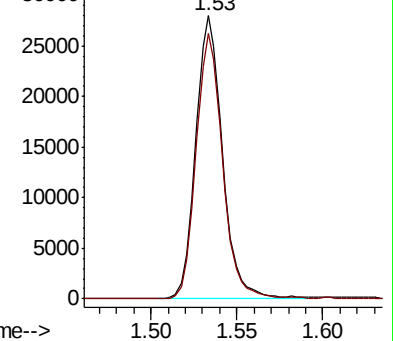
94 100

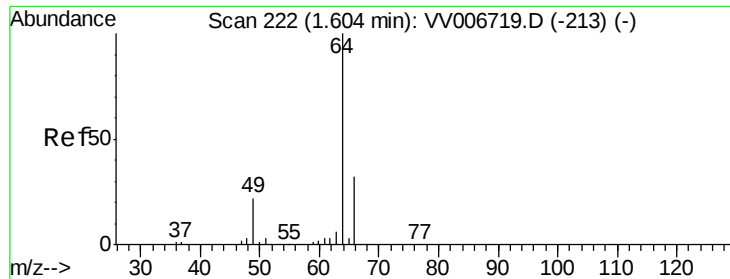
96 93.6 66.4 123.4



Abundance Ion 94.00 (93.70 to 94.70): VV006719.D (-193) (-)

Ion 96.00 (95.70 to 96.70): VV006719.D (-193) (-)





#8

Chloroethane

Concen: 4.615 ug/L

RT: 1.59 min Scan# 219

Delta R.T. -0.01 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

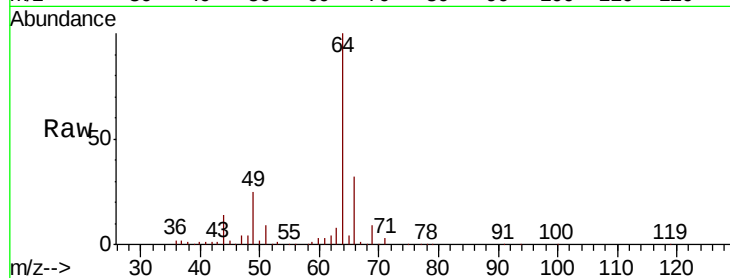
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 55474

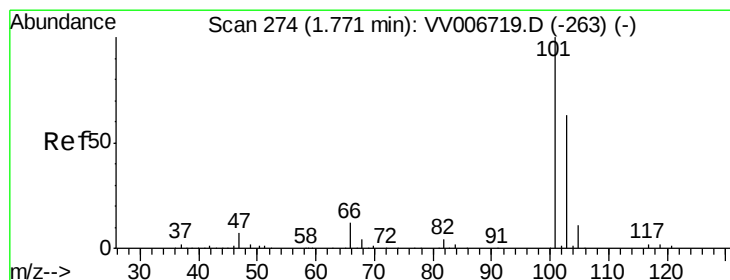
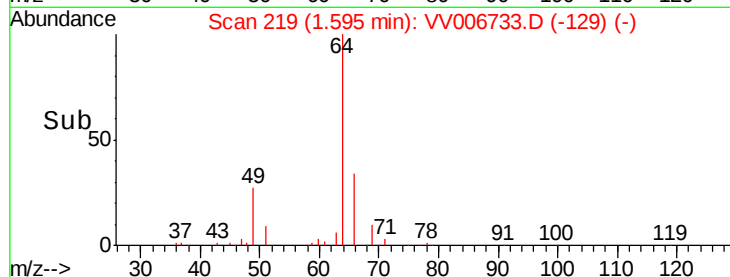
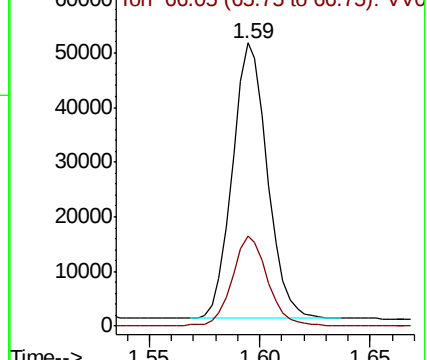
Ion Ratio Lower Upper

64 100

66 31.7 21.8 40.4



Abundance Ion 64.10 (63.80 to 64.80): VV006719.D (-213) (-)



#9

Trichlorofluoromethane

Concen: 4.927 ug/L

RT: 1.76 min Scan# 272

Delta R.T. -0.01 min

Lab File: VV006733.D

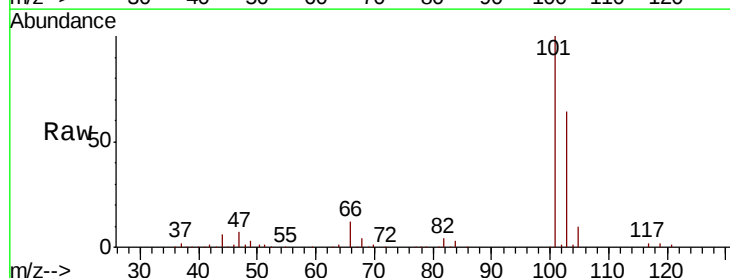
Acq: 27 Jul 2018 18:25

Tgt Ion:101 Resp: 124136

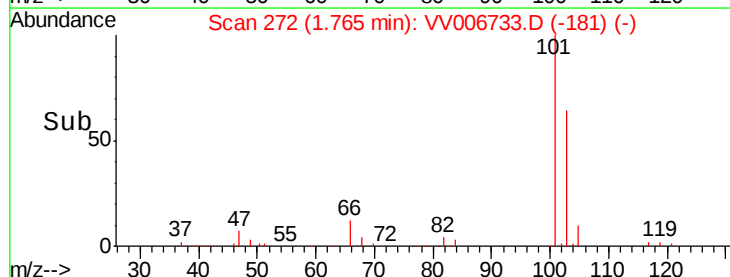
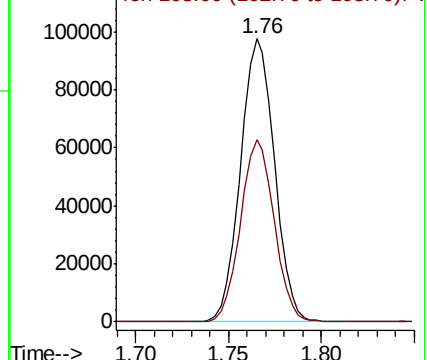
Ion Ratio Lower Upper

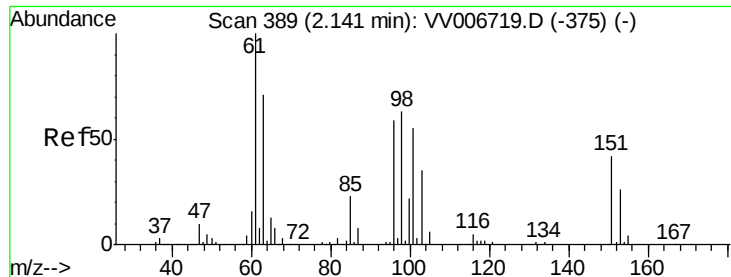
101 100

103 64.0 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV006719.D (-263) (-)





#10

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

Concen: 5.073 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

ClientSampleId :

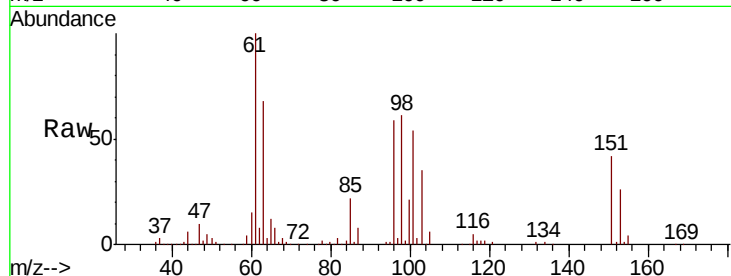
Tot Ion:101 Resp: 77887

Ion Ratio Lower Upper

101 100

85 41.6 33.1 49.7

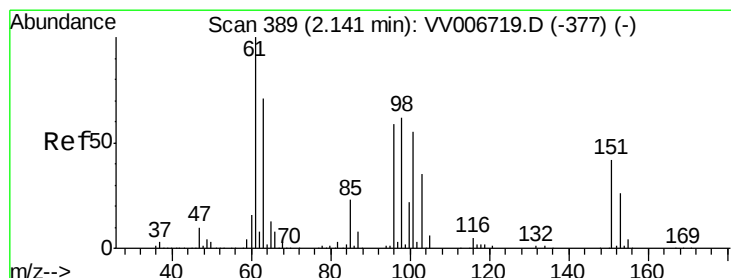
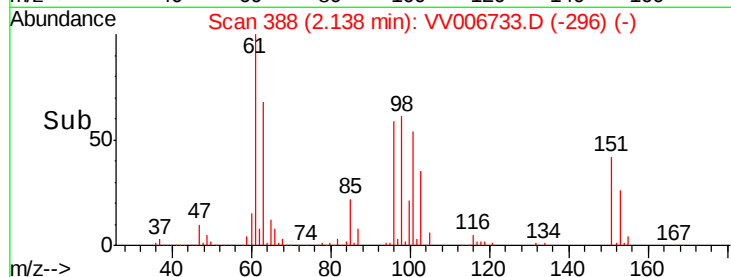
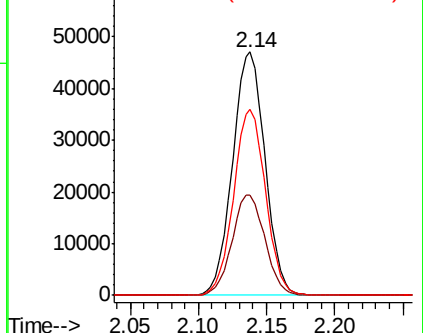
151 75.1 59.7 89.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.839 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

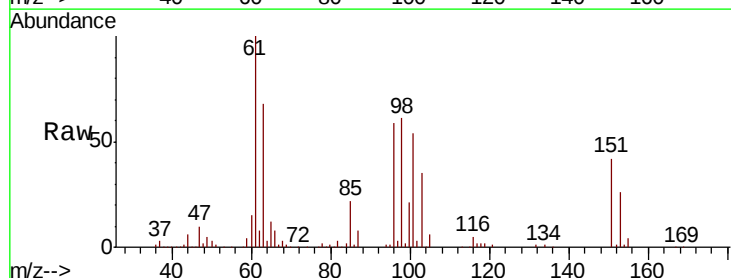
Tgt Ion: 96 Resp: 72752

Ion Ratio Lower Upper

96 100

61 169.6 113.5 210.9

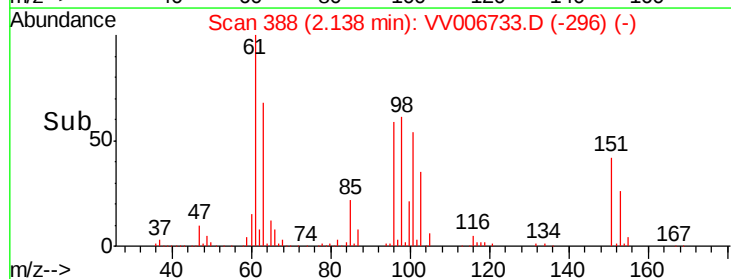
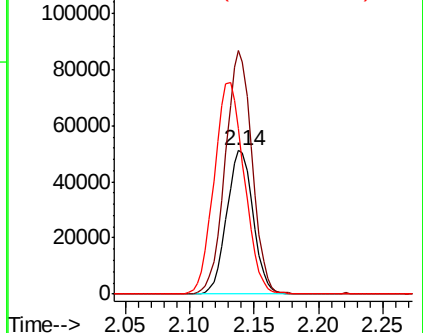
63 115.0 69.5 129.1

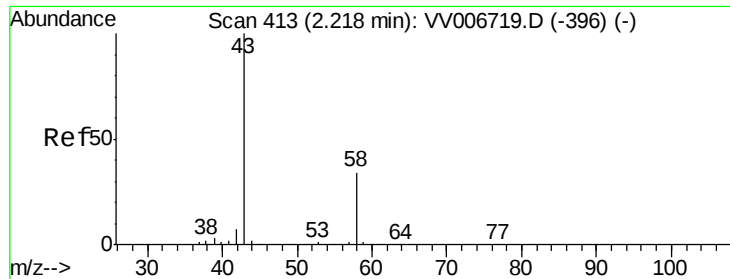


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 50.030 ug/L

RT: 2.20 min Scan# 408

Delta R.T. -0.02 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

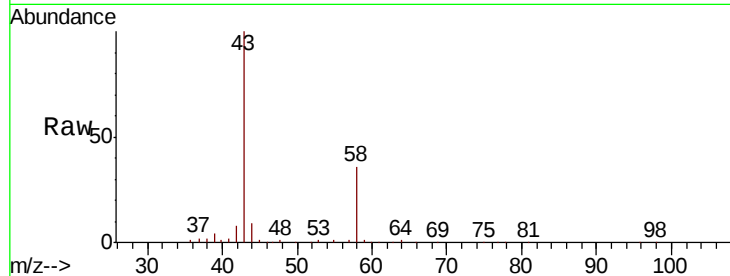
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 118790

Ion Ratio Lower Upper

43 100

58 36.0 0.0 71.4



Abundance Ion 43.05 (42.75 to 43.75): VV006719.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VV006719.D (-396) (-)

2.20

60000

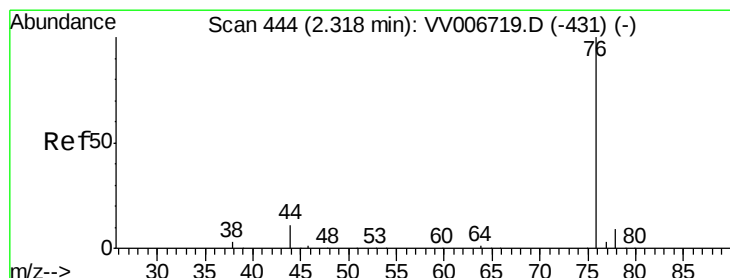
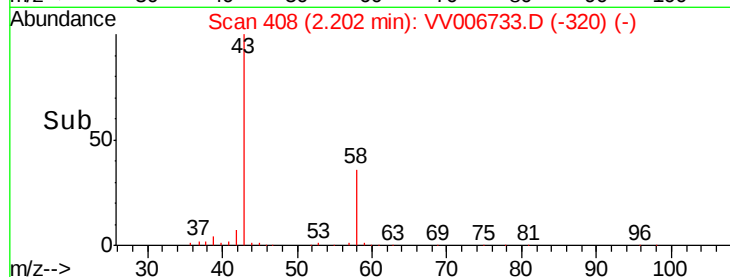
40000

20000

0

Time-->

2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 4.490 ug/L

RT: 2.31 min Scan# 443

Delta R.T. -0.00 min

Lab File: VV006733.D

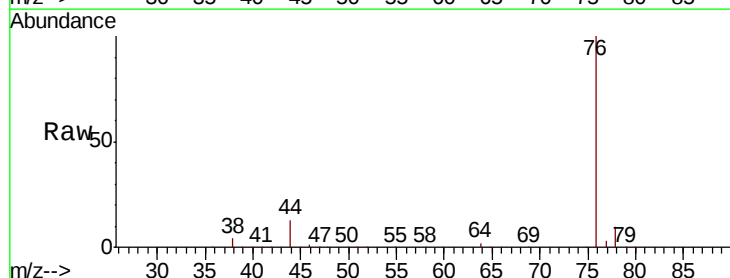
Acq: 27 Jul 2018 18:25

Tgt Ion: 76 Resp: 226981

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV006719.D (-431) (-)

Ion 78.00 (77.70 to 78.70): VV006719.D (-431) (-)

2.31

150000

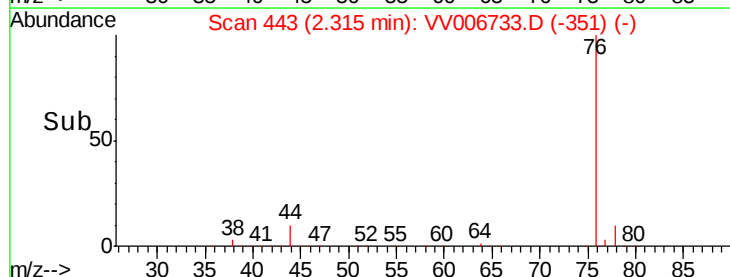
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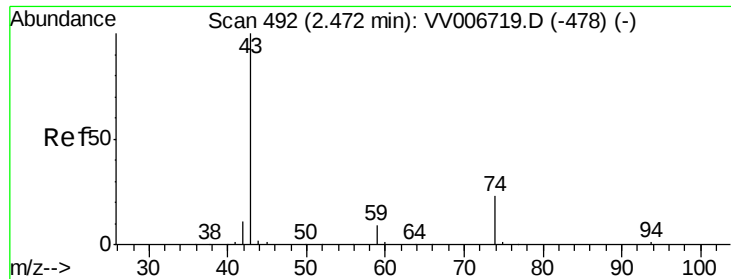
50000

0

Time-->

2.30 2.40

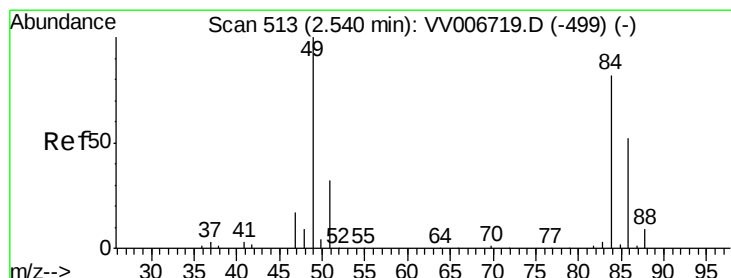
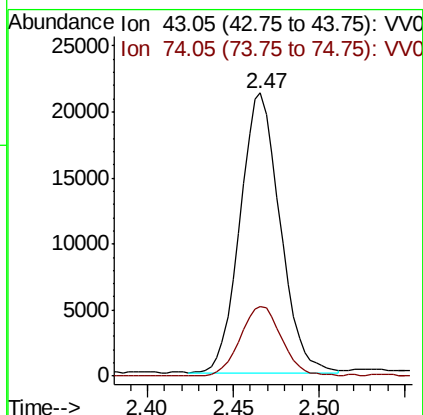
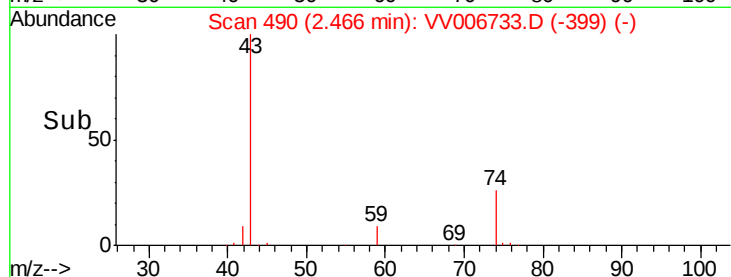
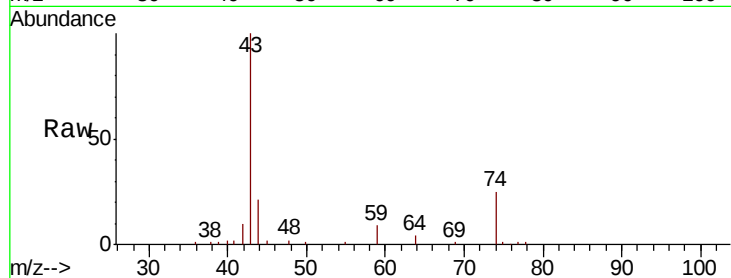




#15
Methvl Acetate
Concen: 4.847 ug/L
RT: 2.47 min Scan# 490
Delta R.T. -0.01 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

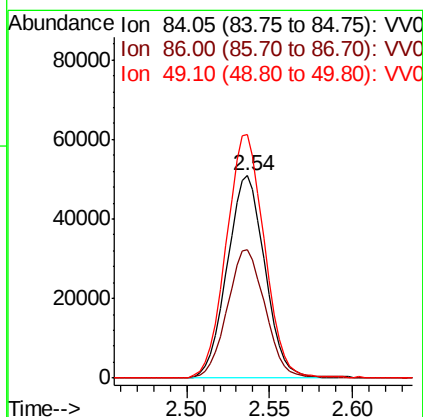
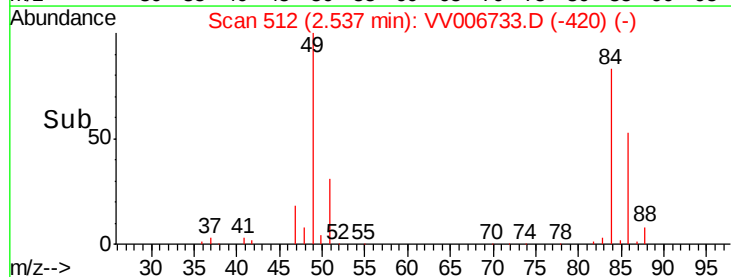
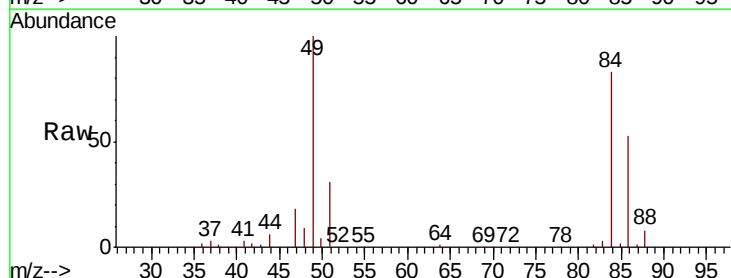
Instrument :
MSVOA_V
ClientSampleId :

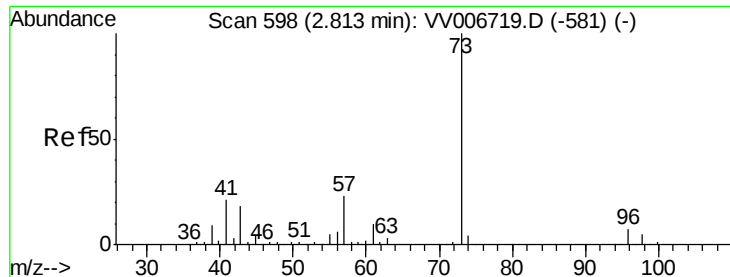
Tot Ion: 43 Resp: 34115
Ion Ratio Lower Upper
43 100
74 26.0 20.6 31.0



#16
Methylene chloride
Concen: 4.679 ug/L
RT: 2.54 min Scan# 512
Delta R.T. -0.00 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

Tgt Ion: 84 Resp: 80631
Ion Ratio Lower Upper
84 100
86 63.5 44.7 83.1
49 120.2 86.7 160.9



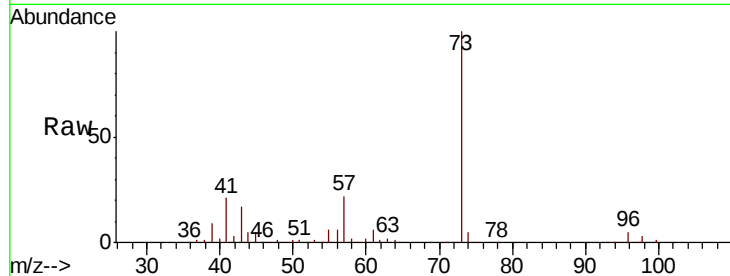


#17

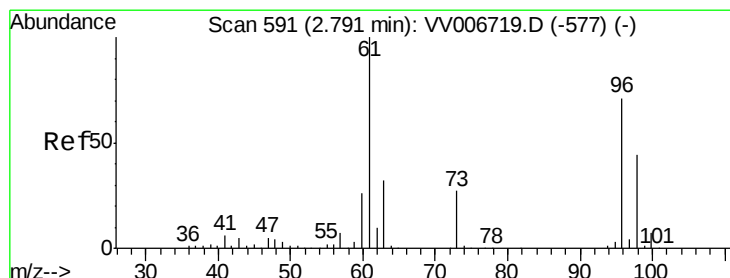
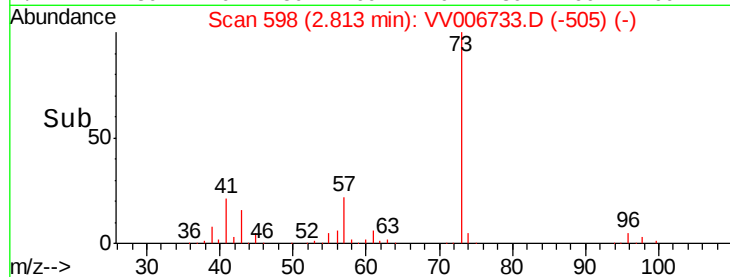
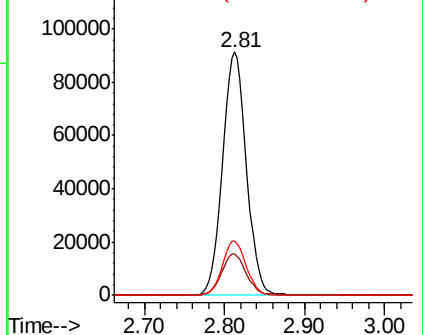
Methvl tert-butvl Ether
 Concen: 5.070 ug/L
 RT: 2.81 min Scan# 598
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 73 Resp: 186987
 Ion Ratio Lower Upper
 73 100
 43 17.1 14.2 21.4
 57 22.6 18.2 27.2



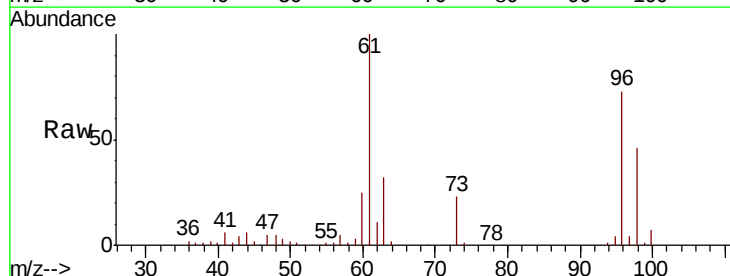
Abundance Ion 73.10 (72.80 to 73.80): VV0
 Ion 43.05 (42.75 to 43.75): VV0
 Ion 57.10 (56.80 to 57.80): VV0



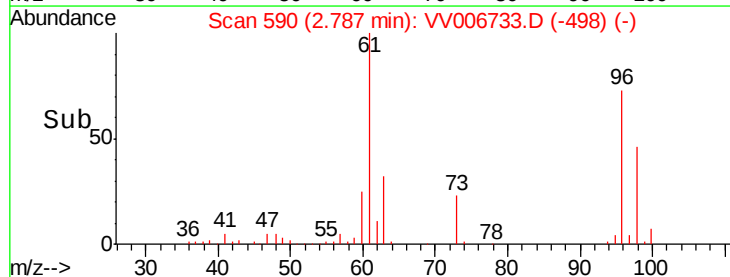
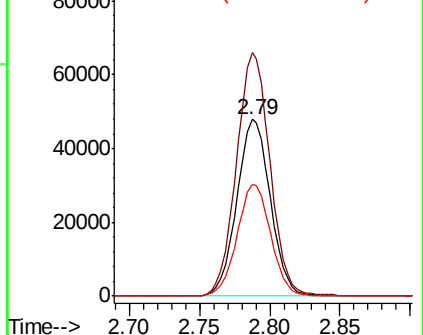
#18

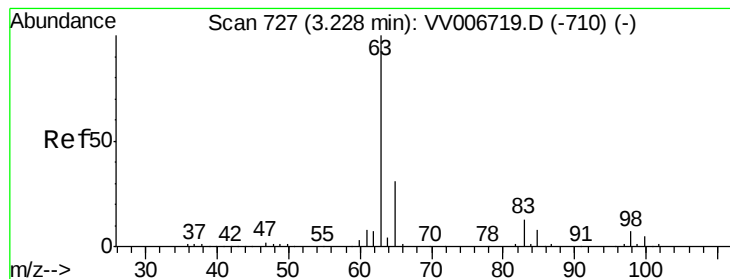
trans-1,2-Dichloroethene
 Concen: 4.898 ug/L
 RT: 2.79 min Scan# 590
 Delta R.T. -0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Tgt Ion: 96 Resp: 79976
 Ion Ratio Lower Upper
 96 100
 61 137.8 98.5 182.9
 98 63.6 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 4.925 ug/L

RT: 3.23 min Scan# 727

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

ClientSampled :

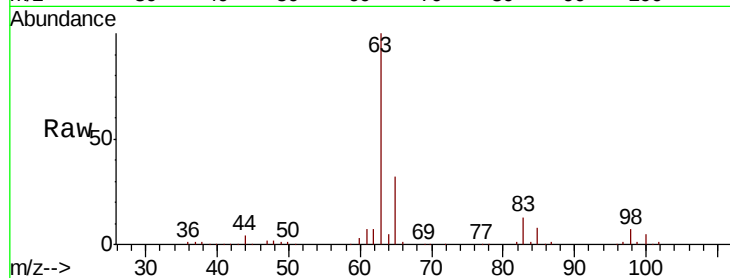
Tot Ion: 63 Resp: 147936

Ion Ratio Lower Upper

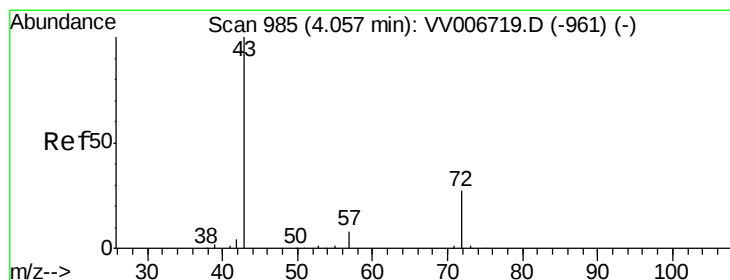
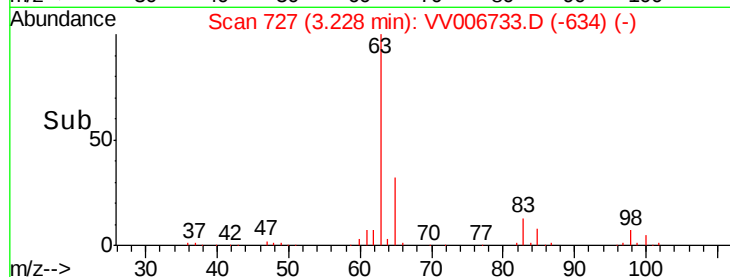
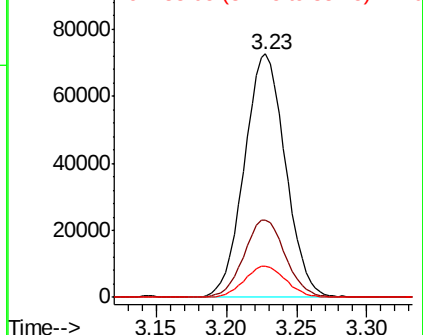
63 100

65 32.0 22.4 41.6

83 12.9 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 49.951 ug/L

RT: 4.04 min Scan# 981

Delta R.T. -0.01 min

Lab File: VV006733.D

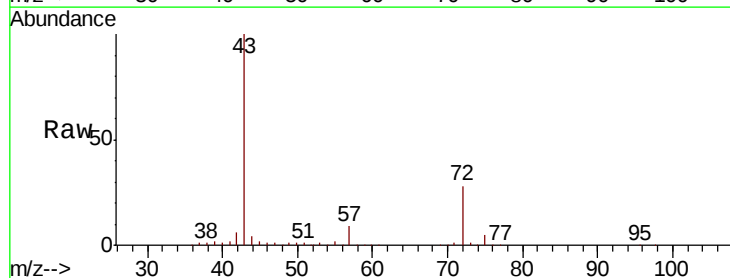
Acq: 27 Jul 2018 18:25

Tgt Ion: 43 Resp: 198656

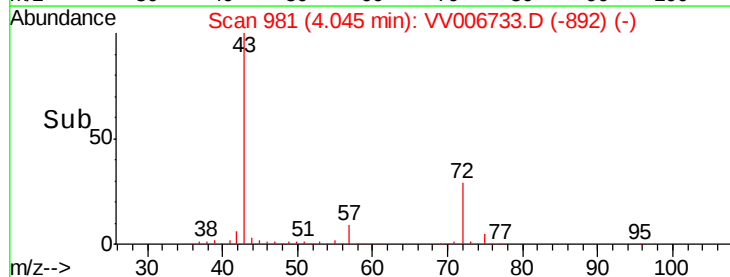
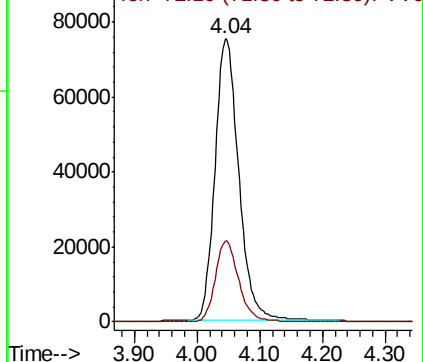
Ion Ratio Lower Upper

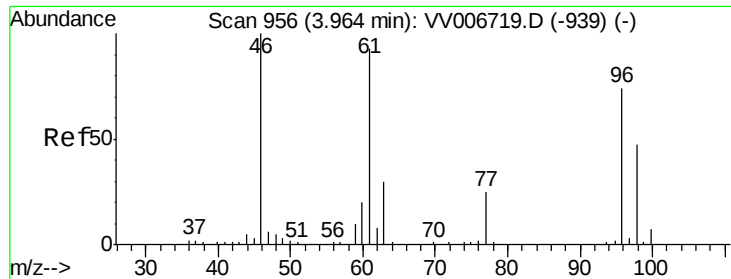
43 100

72 27.8 13.8 41.4



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

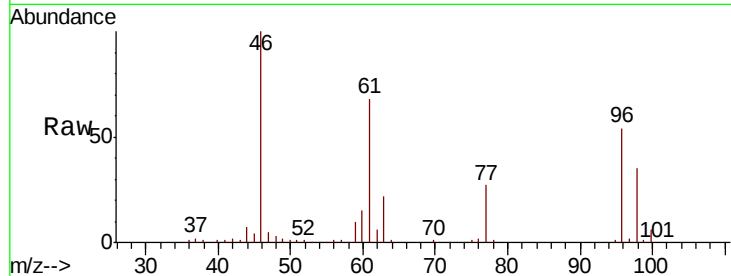




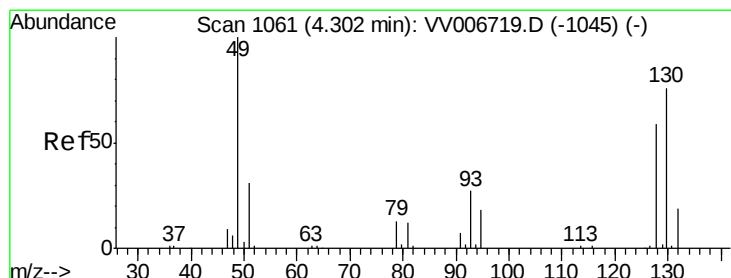
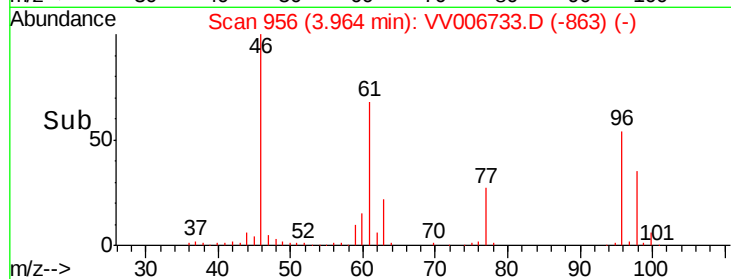
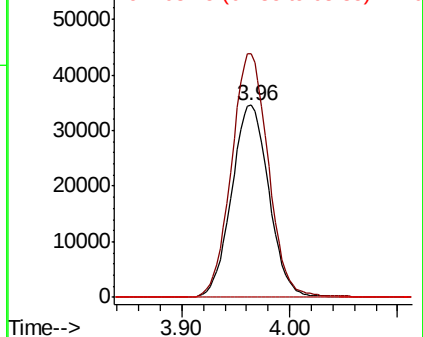
#22
 cis-1,2-Dichloroethene
 Concen: 4.874 ug/L
 RT: 3.96 min Scan# 956
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 82989
 Ion Ratio Lower Upper
 96 100
 61 126.9 85.5 158.9
 68 0.0 0.0 0.0

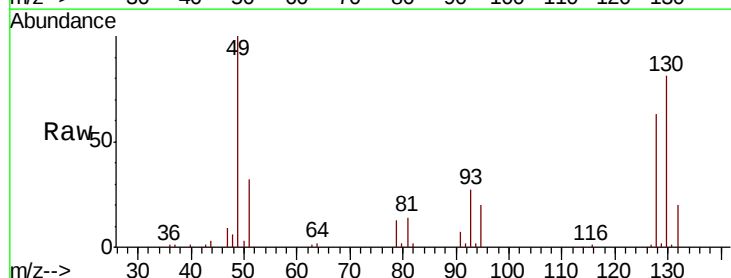


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

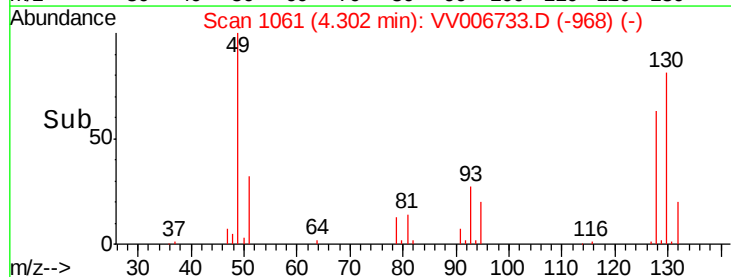
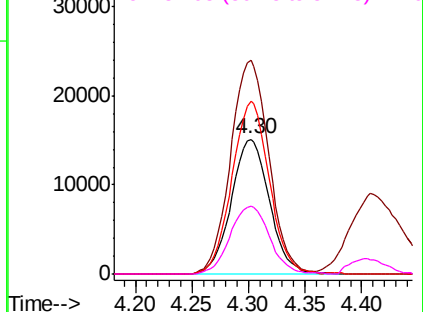


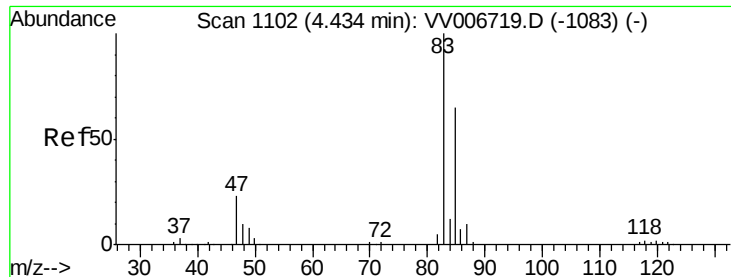
#23
 Bromochloromethane
 Concen: 5.071 ug/L
 RT: 4.30 min Scan# 1061
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Tgt Ion: 128 Resp: 35532
 Ion Ratio Lower Upper
 128 100
 49 158.3 112.6 209.0
 130 128.5 87.1 161.7
 51 50.6 40.9 61.3



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

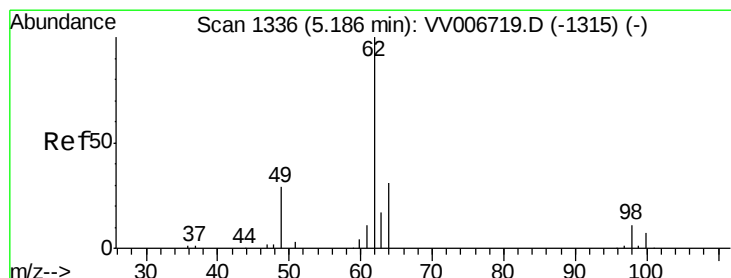
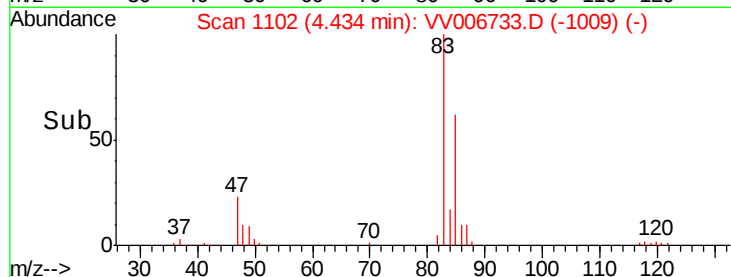
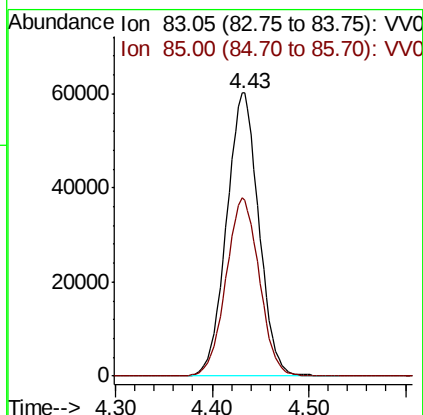
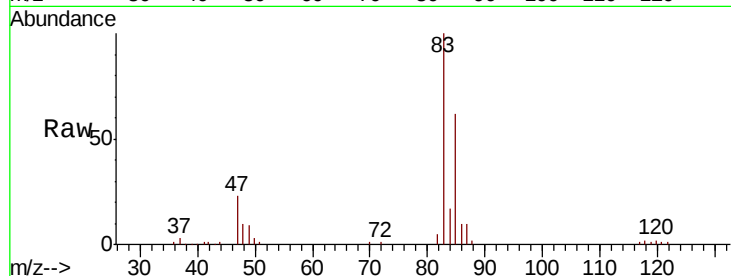




#25
Chloroform
Concen: 4.939 ug/L
RT: 4.43 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

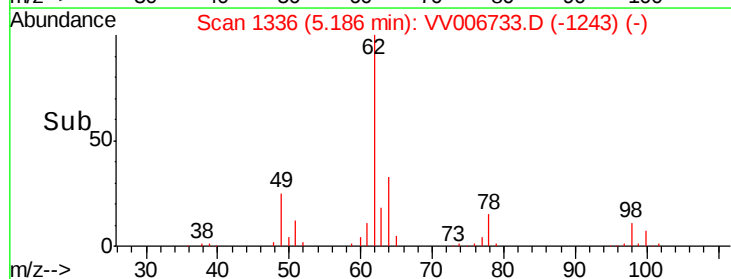
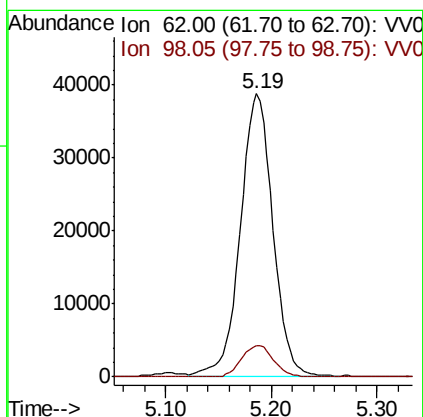
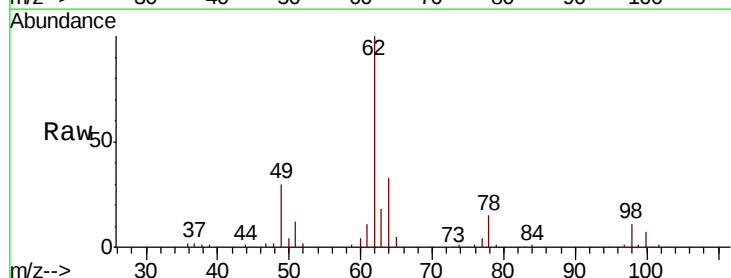
Instrument :
MSVOA_V
ClientSampleId :

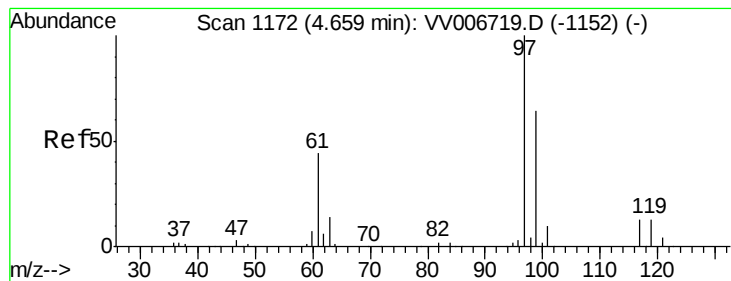
Tot Ion: 83 Resp: 139223
Ion Ratio Lower Upper
83 100
85 62.2 46.1 85.5



#27
1,2-Dichloroethane
Concen: 5.002 ug/L
RT: 5.19 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

Tgt Ion: 62 Resp: 82718
Ion Ratio Lower Upper
62 100
98 10.9 8.4 12.6





#29

1,1,1-Trichloroethane

Concen: 5.020 ug/L

RT: 4.66 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

ClientSampleId :

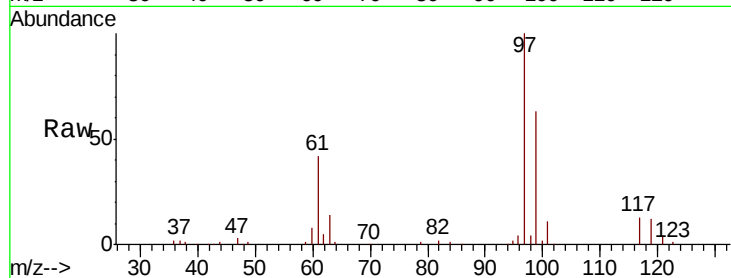
Tot Ion: 97 Resp: 115171

Ion Ratio Lower Upper

97 100

99 64.0 51.7 77.5

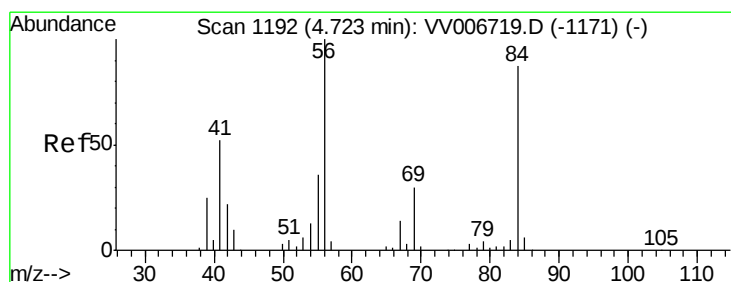
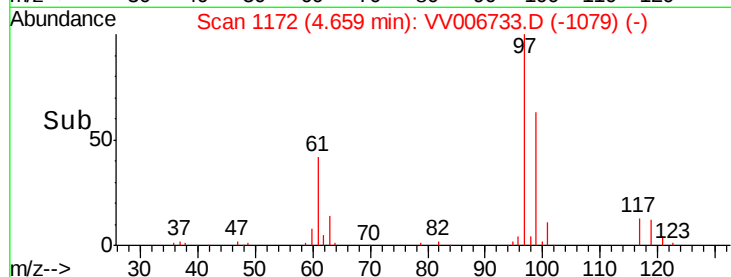
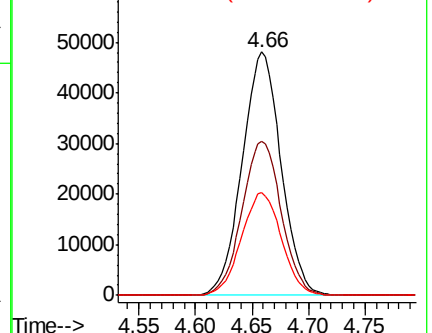
61 43.5 34.9 52.3



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.743 ug/L

RT: 4.72 min Scan# 1191

Delta R.T. -0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

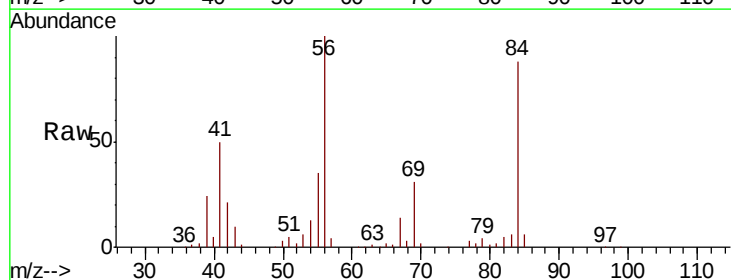
Tgt Ion: 56 Resp: 121836

Ion Ratio Lower Upper

56 100

69 31.3 24.6 36.8

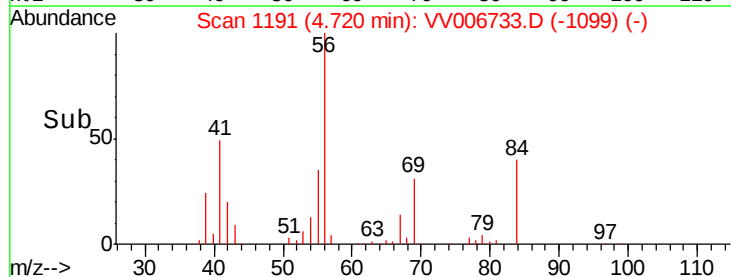
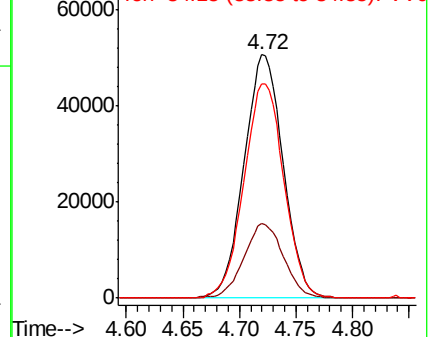
84 90.1 71.4 107.2

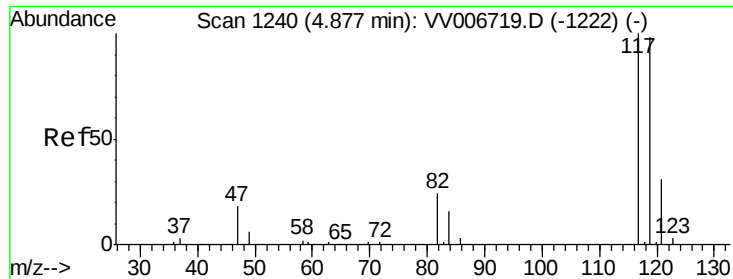


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 5.031 ug/L

RT: 4.87 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

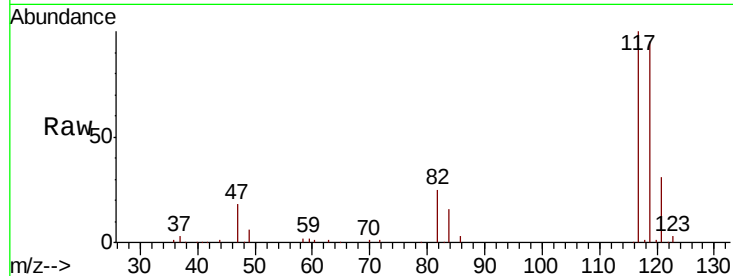
ClientSampleId :

Tot Ion:117 Resp: 98672

Ion Ratio Lower Upper

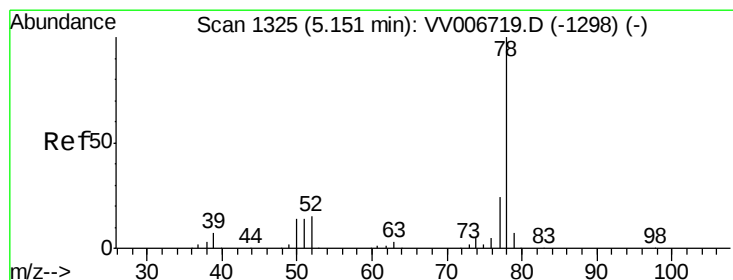
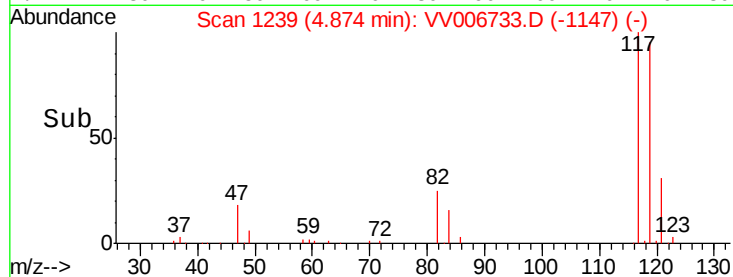
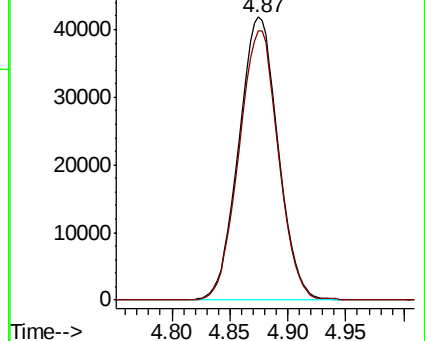
117 100

119 95.5 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.016 ug/L

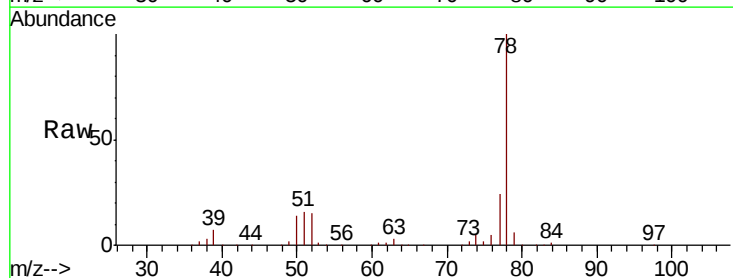
RT: 5.15 min Scan# 1324

Delta R.T. -0.00 min

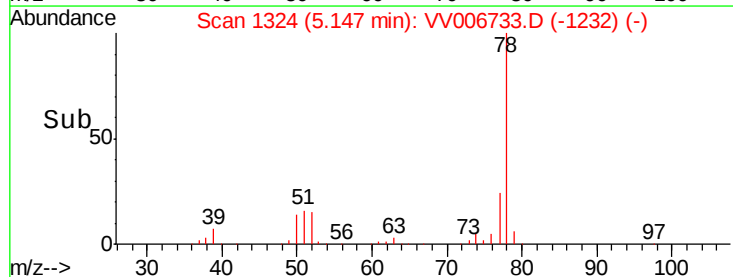
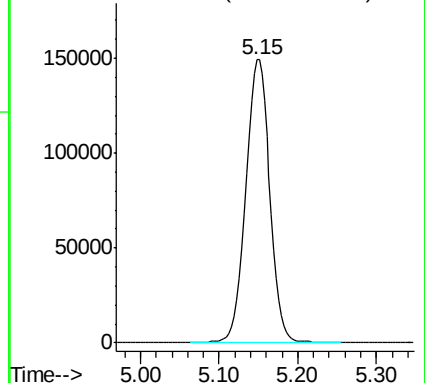
Lab File: VV006733.D

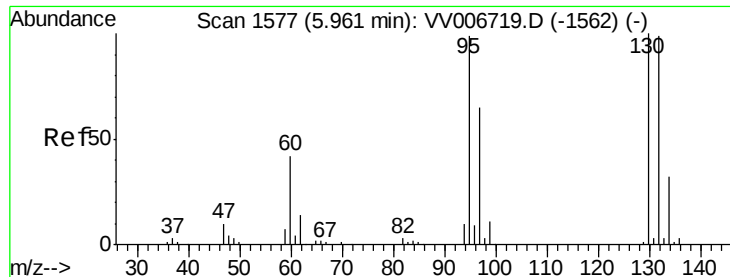
Acq: 27 Jul 2018 18:25

Tgt Ion: 78 Resp: 321592



Abundance Ion 78.10 (77.80 to 78.80): VV0

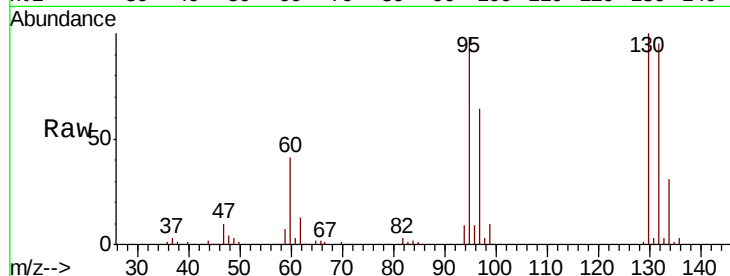




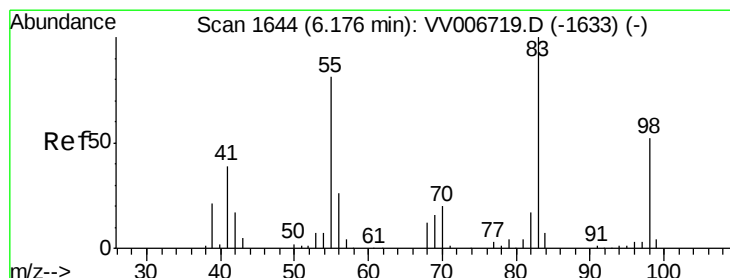
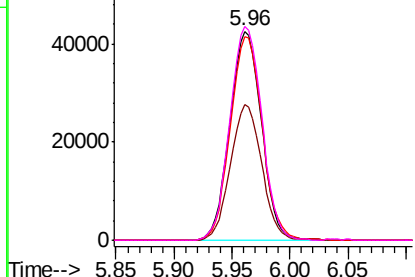
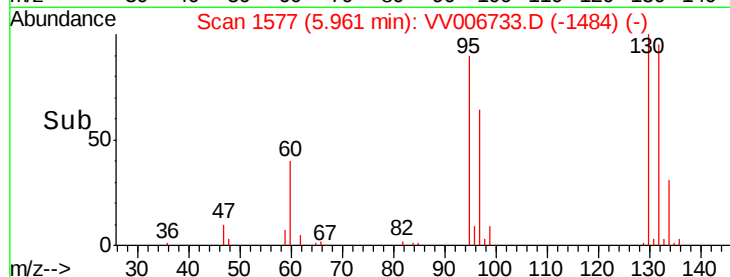
#34
 Trichloroethene
 Concen: 4.946 ug/L
 RT: 5.96 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 80044
 Ion Ratio Lower Upper
 95 100
 97 65.0 44.9 83.3
 132 97.5 68.9 127.9
 130 102.3 73.4 136.4

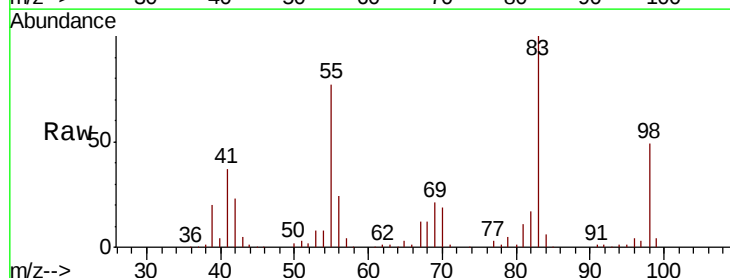


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

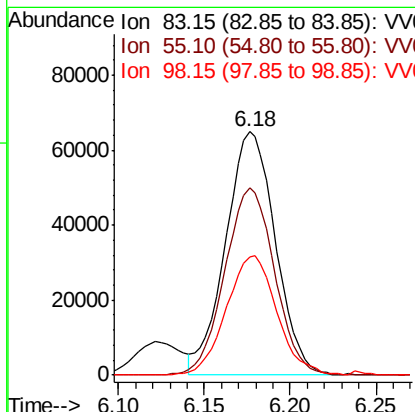
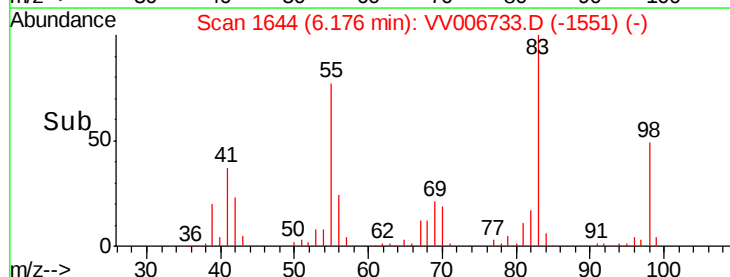


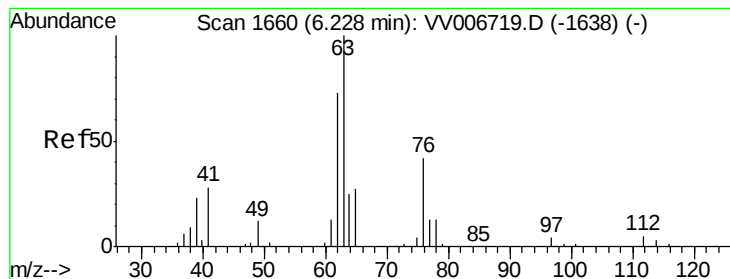
#35
 Methylcyclohexane
 Concen: 4.833 ug/L
 RT: 6.18 min Scan# 1644
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Tgt Ion: 83 Resp: 130670
 Ion Ratio Lower Upper
 83 100
 55 77.0 61.9 92.9
 98 49.8 39.7 59.5



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: 4.898 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

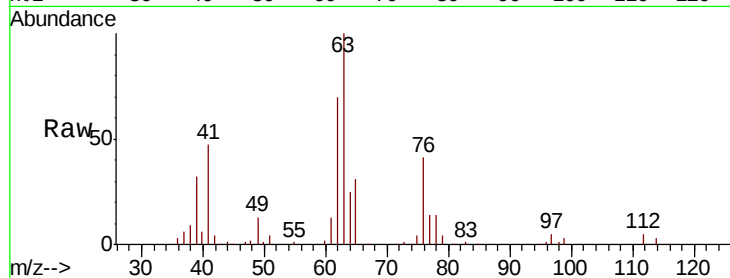
ClientSampleId :

Tot Ion: 63 Resp: 80619

Ion Ratio Lower Upper

63 100

112 4.6 3.8 5.6



Abundance Ion 63.10 (62.80 to 63.80): VV006733.D (-1567) (-)

Ion 112.10 (111.80 to 112.80): VV006733.D (-1567) (-)

6.23

50000

40000

30000

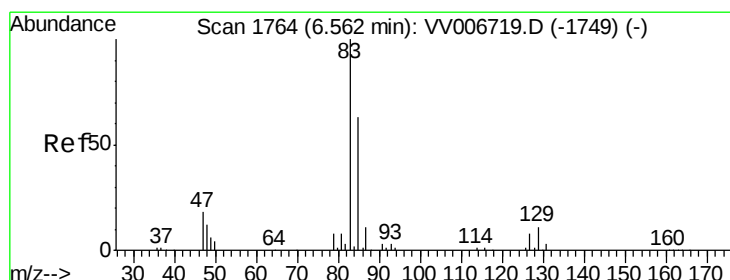
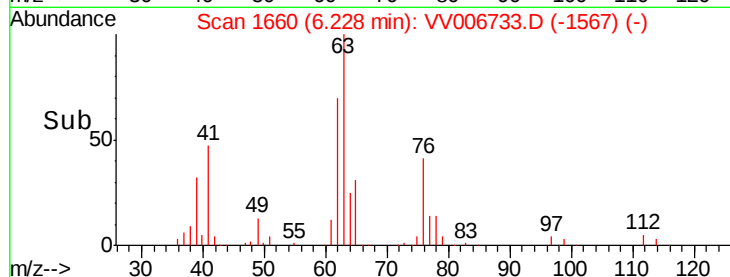
20000

10000

0

6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 4.990 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

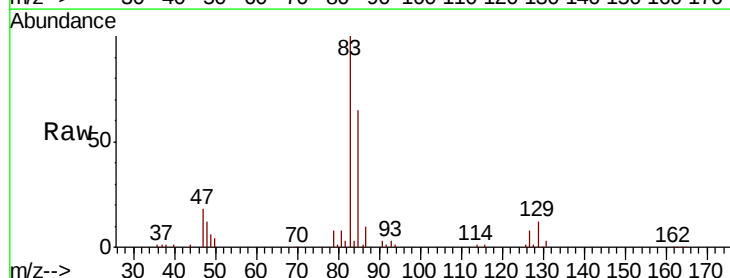
Tgt Ion: 83 Resp: 91736

Ion Ratio Lower Upper

83 100

85 65.1 44.4 82.4

127 8.4 6.6 9.8



Abundance Ion 82.95 (82.65 to 83.65): VV006733.D (-1671) (-)

Ion 85.00 (84.70 to 85.70): VV006733.D (-1671) (-)

Ion 126.90 (126.60 to 127.60): VV006733.D (-1671) (-)

6.56

60000

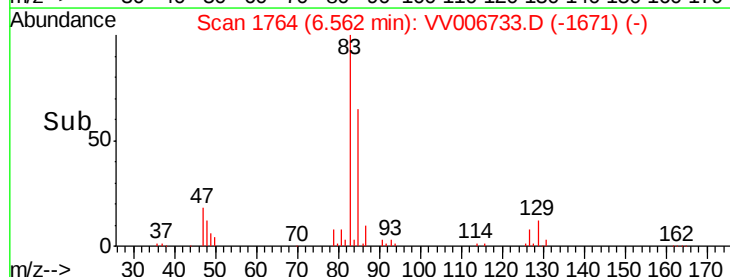
40000

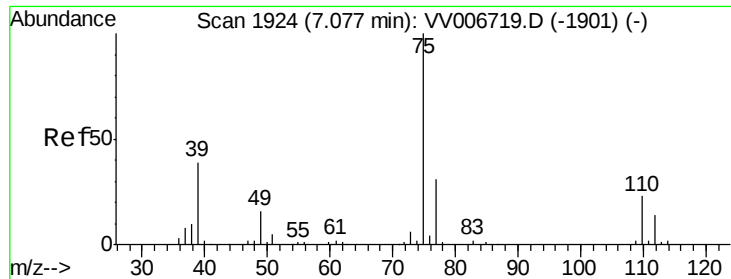
20000

0

6.50 6.55 6.60 6.65

Time-->

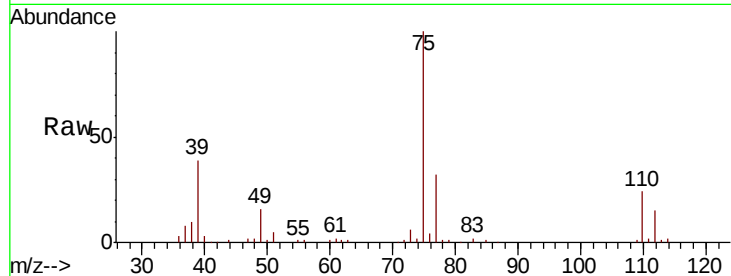




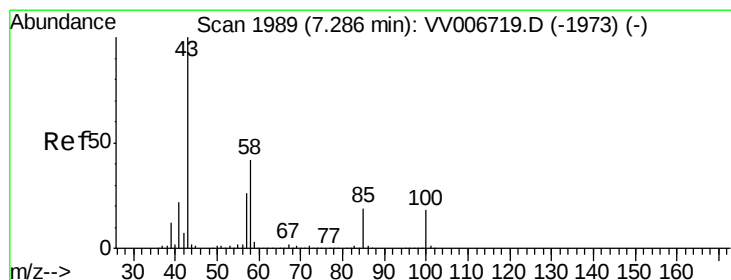
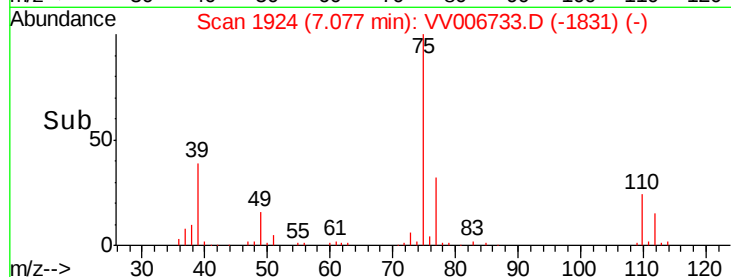
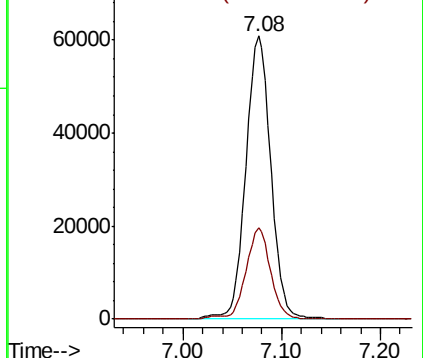
#39
 cis-1,3-Dichloropropene
 Concen: 4.964 ug/L
 RT: 7.08 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 75 Resp: 106416
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.0 40.8

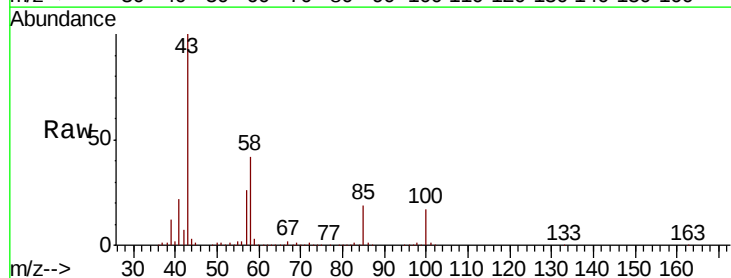


Abundance Ion 75.05 (74.75 to 75.75): VV0
 Ion 77.05 (76.75 to 77.75): VV0

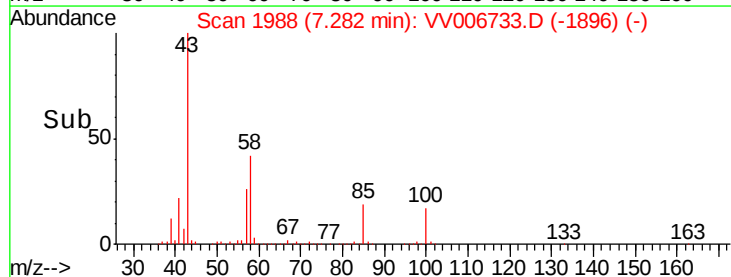
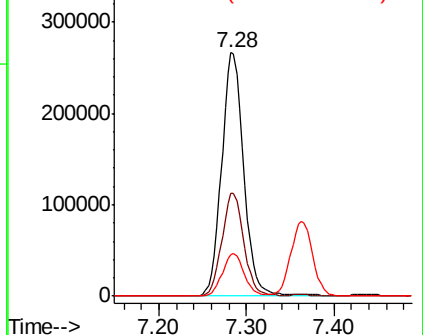


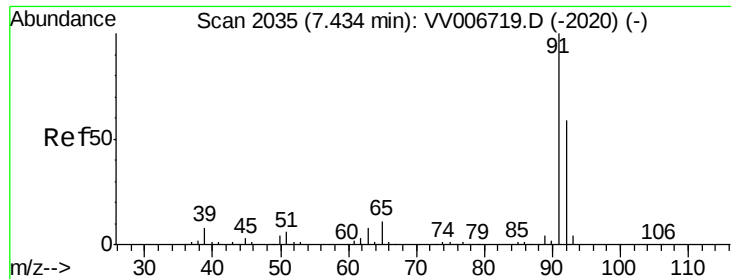
#40
 4-Methyl-2-pentanone
 Concen: 51.741 ug/L
 RT: 7.28 min Scan# 1988
 Delta R.T. -0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Tgt Ion: 43 Resp: 468106
 Ion Ratio Lower Upper
 43 100
 58 41.8 33.4 50.0
 100 17.1 13.6 20.4



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





#42

Toluene

Concen: 5.014 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

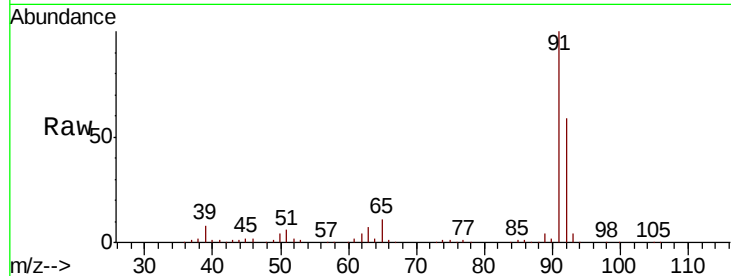
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 331004

Ion Ratio Lower Upper

91 100

92 59.3 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV006719.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VV006719.D (-2020) (-)

7.44

200000

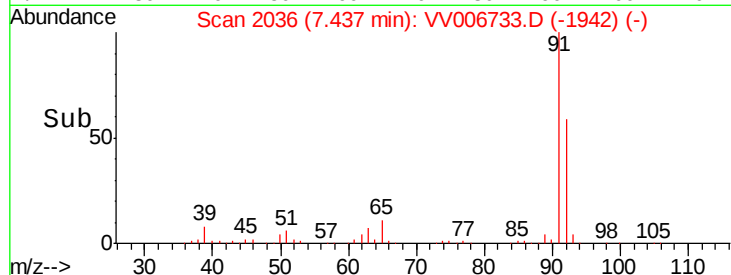
150000

100000

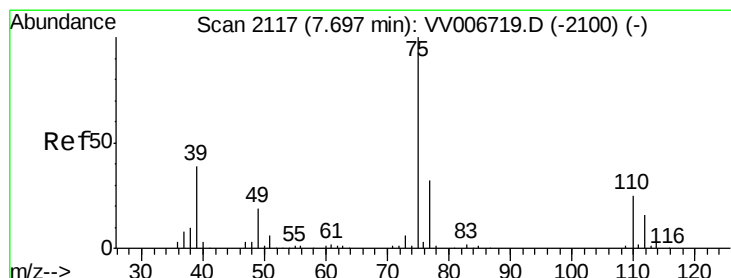
50000

0

Time-->



Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.975 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VV006733.D

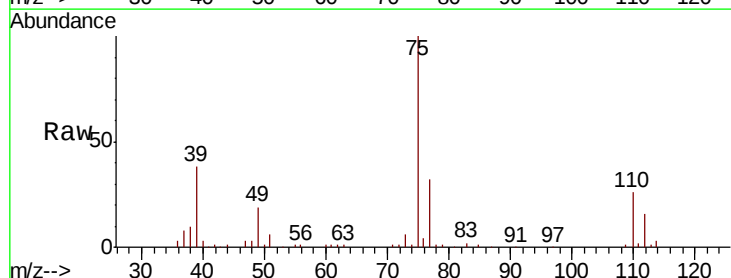
Acq: 27 Jul 2018 18:25

Tgt Ion: 75 Resp: 83874

Ion Ratio Lower Upper

75 100

77 32.3 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV006719.D (-2100) (-)

Ion 77.05 (76.75 to 77.75): VV006719.D (-2100) (-)

7.70

50000

40000

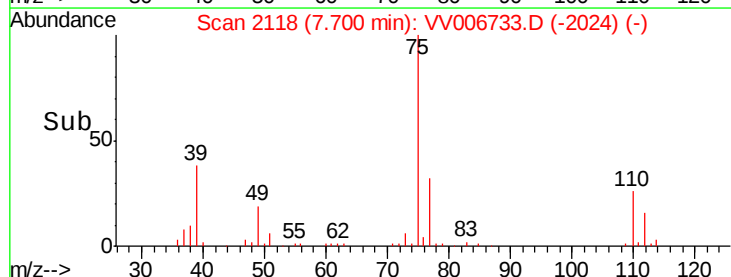
30000

20000

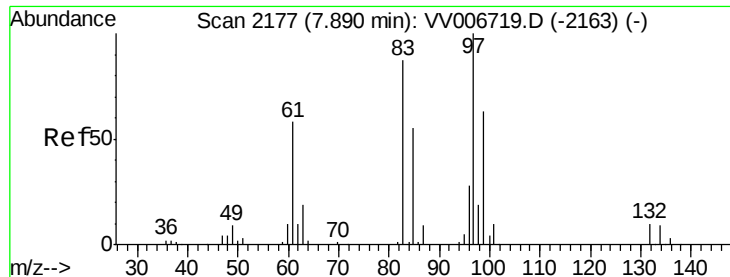
10000

0

Time-->



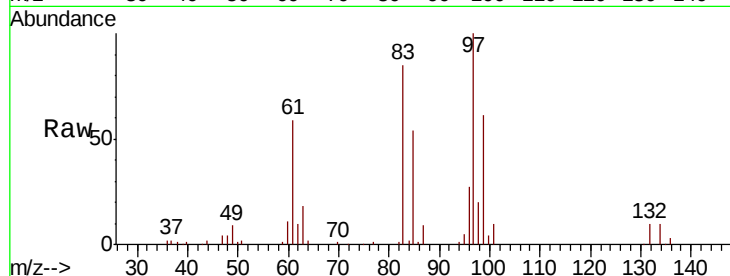
Time-->



#45
 1,1,2-Trichloroethane
 Concen: 5.066 ug/L
 RT: 7.89 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:	97	Resp:	56149
Ion	Ratio	Lower	Upper
97	100		
99	61.3	43.0	79.8
83	84.6	59.4	110.4
85	53.7	37.5	69.7



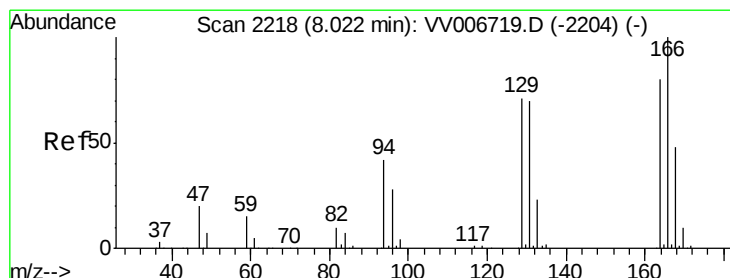
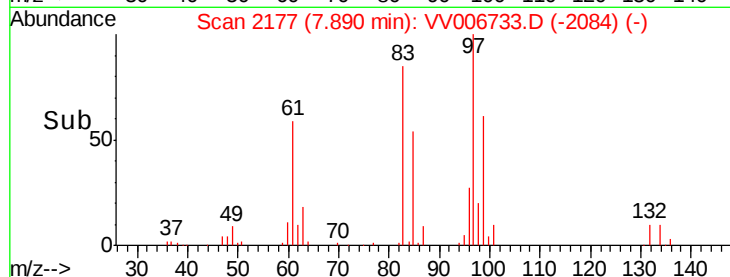
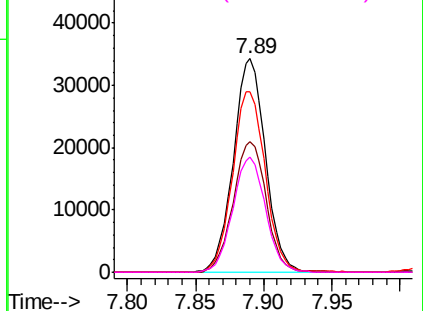
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

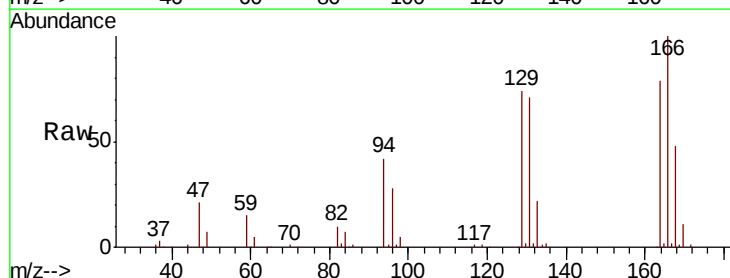
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47
 Tetrachloroethene
 Concen: 4.961 ug/L
 RT: 8.02 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Tgt Ion:	164	Resp:	63768
Ion	Ratio	Lower	Upper
164	100		
129	93.6	65.0	120.8
131	89.6	61.9	115.1
166	126.1	89.3	165.9



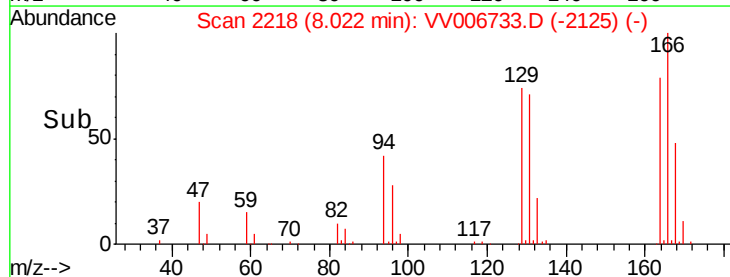
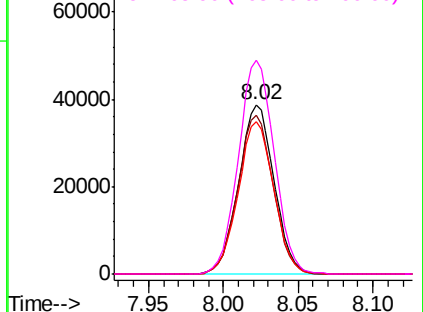
Abundance

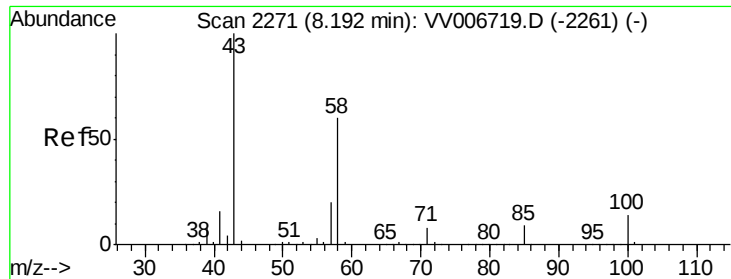
Ion 163.90 (163.60 to 164.60): V

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

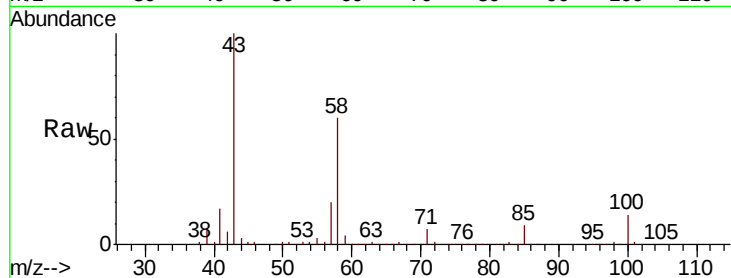




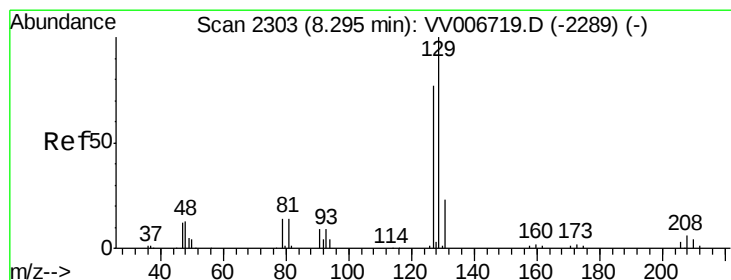
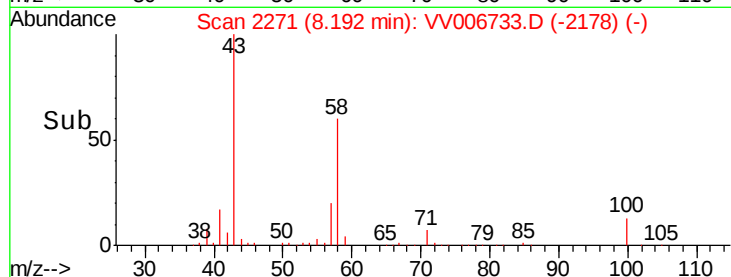
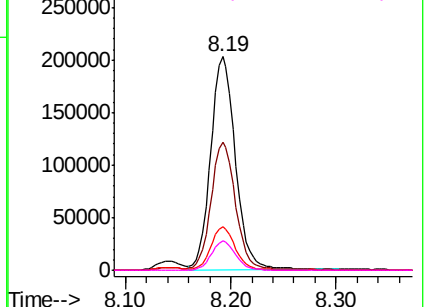
#48
2-Hexanone
Concen: 52.453 ug/L
RT: 8.19 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 331126
Ion Ratio Lower Upper
43 100
58 58.8 47.2 70.8
57 19.8 16.1 24.1
100 13.5 11.1 16.7

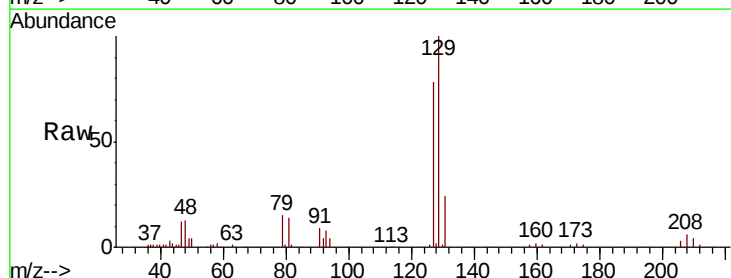


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

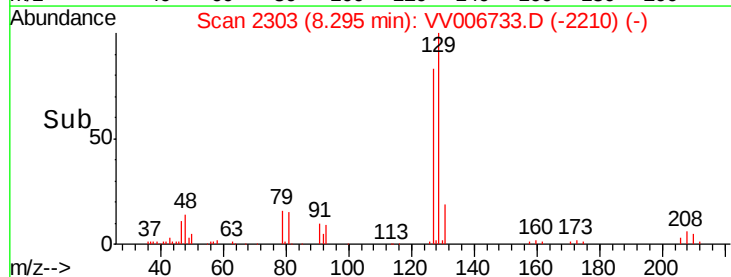
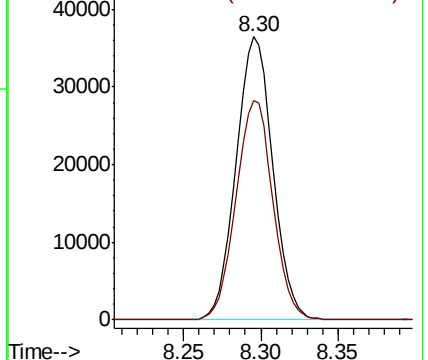


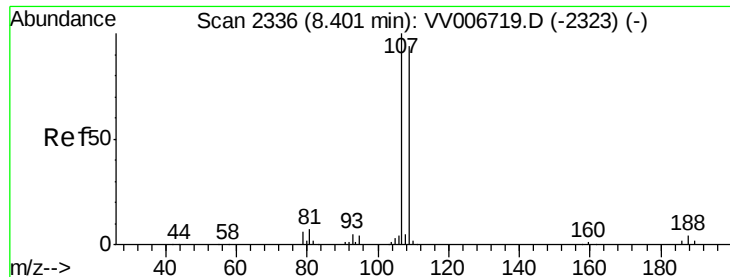
#49
Dibromochloromethane
Concen: 5.128 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

Tgt Ion: 129 Resp: 60154
Ion Ratio Lower Upper
129 100
127 77.7 53.5 99.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

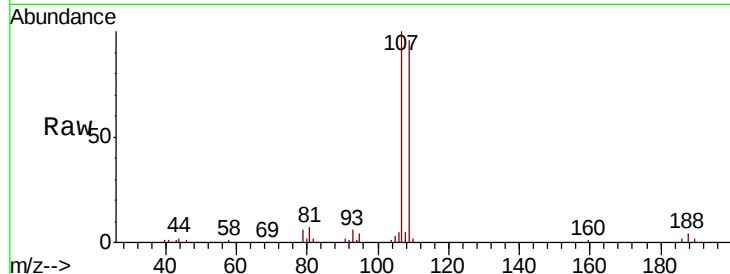




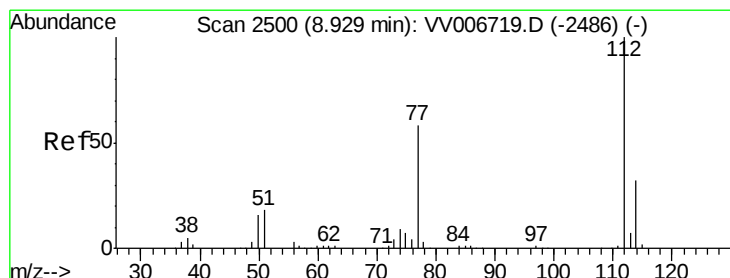
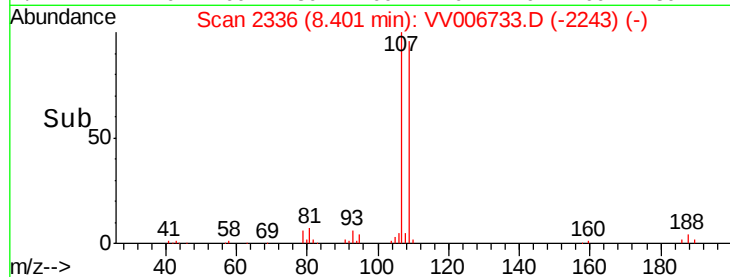
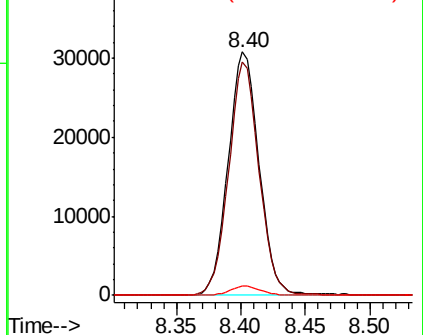
#50
1,2-Dibromoethane
Concen: 5.171 ug/L
RT: 8.40 min Scan# 2336
Delta R.T. 0.00 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:107 Resp: 51226
Ion Ratio Lower Upper
107 100
109 95.9 66.8 124.0
188 3.8 3.1 4.7

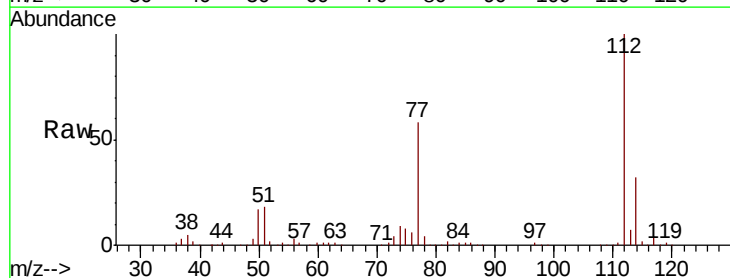


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

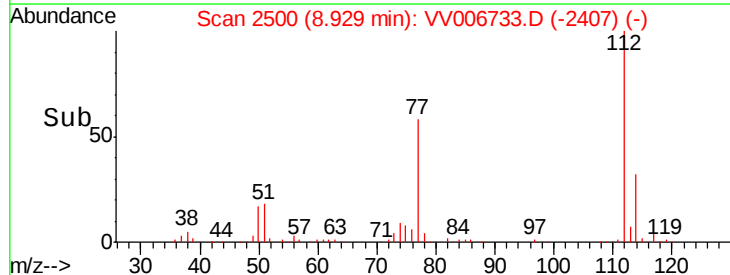
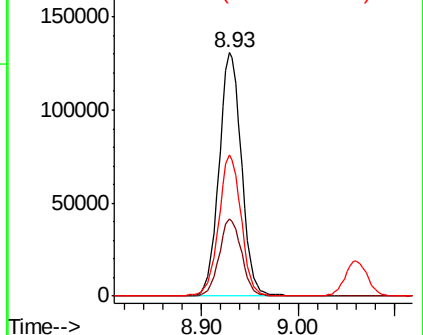


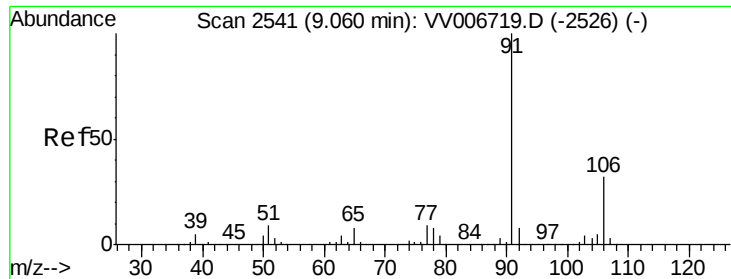
#51
Chlorobenzene
Concen: 4.896 ug/L
RT: 8.93 min Scan# 2500
Delta R.T. 0.00 min
Lab File: VV006733.D
Acq: 27 Jul 2018 18:25

Tgt Ion:112 Resp: 210230
Ion Ratio Lower Upper
112 100
114 31.8 22.5 41.9
77 57.7 46.2 69.2



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): VV0





#52

Ethylbenzene

Concen: 4.947 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

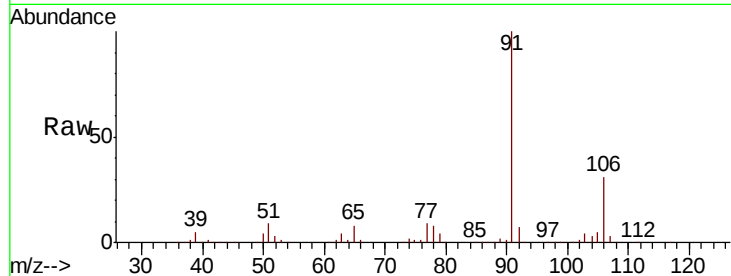
ClientSampleId :

Tot Ion: 91 Resp: 348149

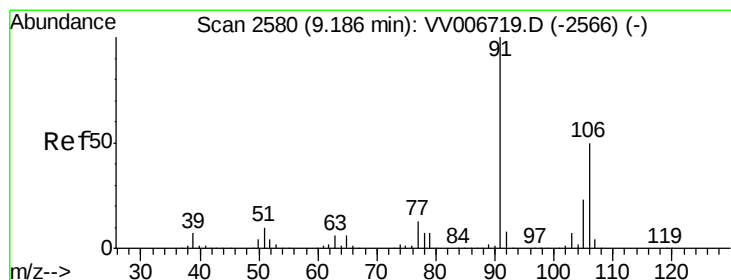
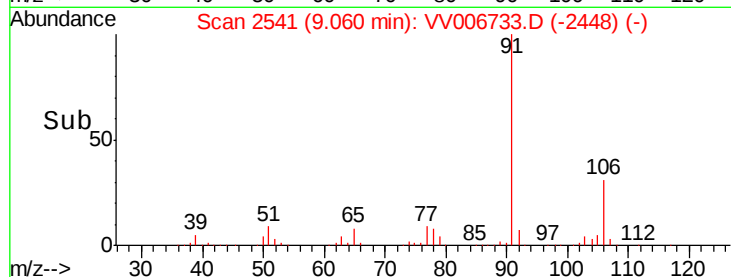
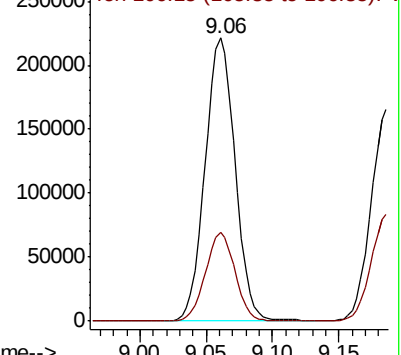
Ion Ratio Lower Upper

91 100

106 31.2 21.8 40.6



Abundance Ion 91.15 (90.85 to 91.85): VV006733.D (-2448) (-)



#53

m,p-xylene

Concen: 4.987 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. 0.00 min

Lab File: VV006733.D

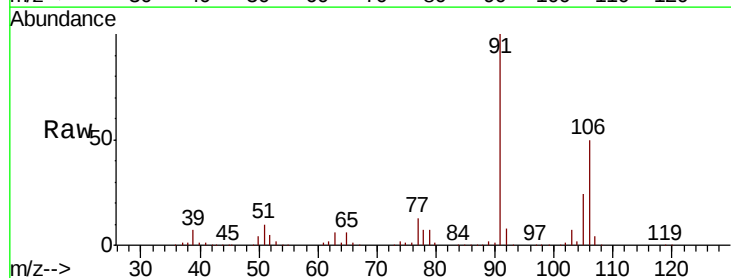
Acq: 27 Jul 2018 18:25

Tgt Ion: 106 Resp: 132497

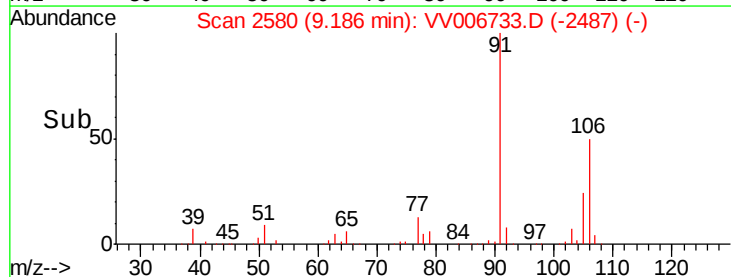
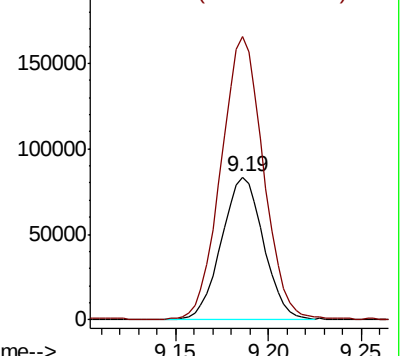
Ion Ratio Lower Upper

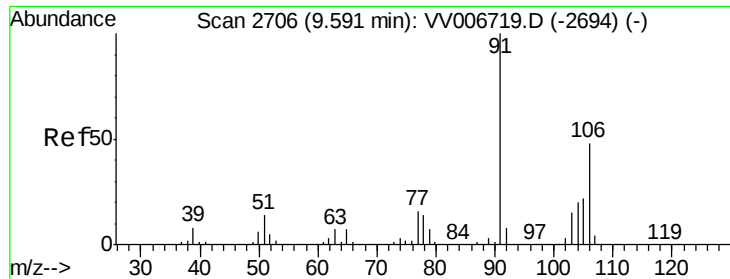
106 100

91 198.4 140.3 260.5



Abundance Ion 106.15 (105.85 to 106.85): VV006733.D (-2487) (-)





#54

o-xylene

Concen: 4.937 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

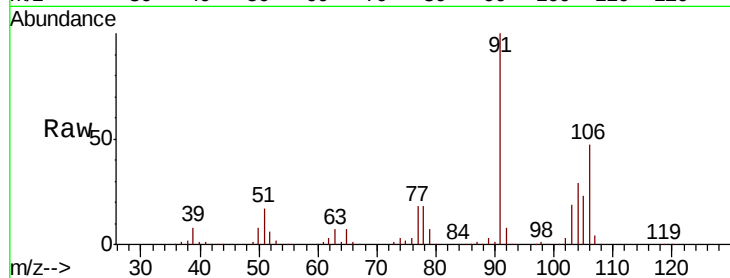
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 127776

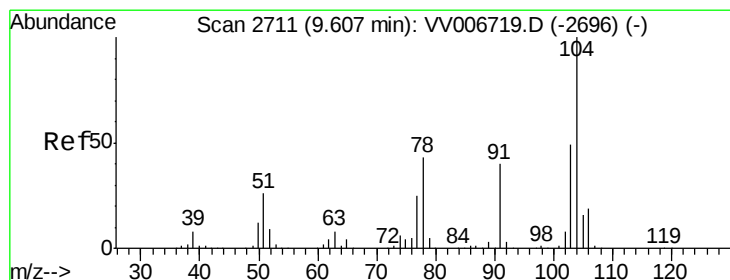
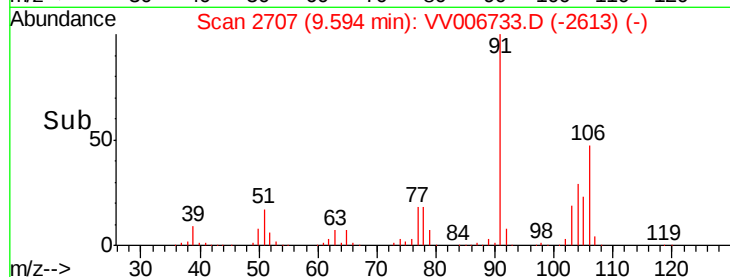
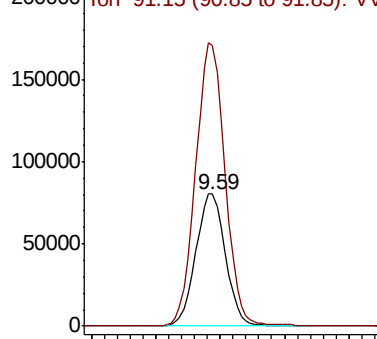
Ion Ratio Lower Upper

106 100

91 212.7 146.0 271.2



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.066 ug/L

RT: 9.61 min Scan# 2711

Delta R.T. 0.00 min

Lab File: VV006733.D

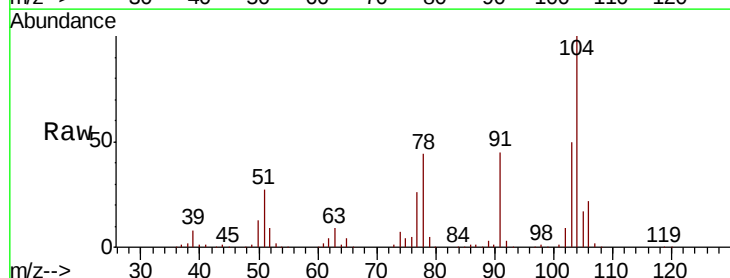
Acq: 27 Jul 2018 18:25

Tgt Ion:104 Resp: 221149

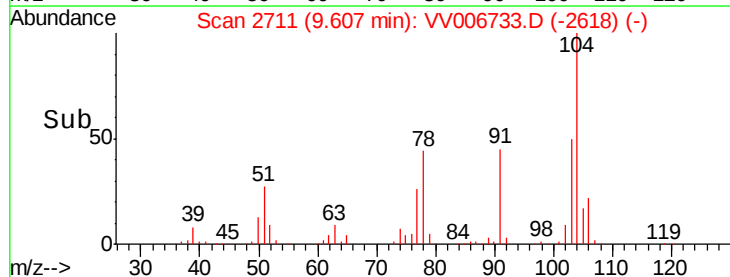
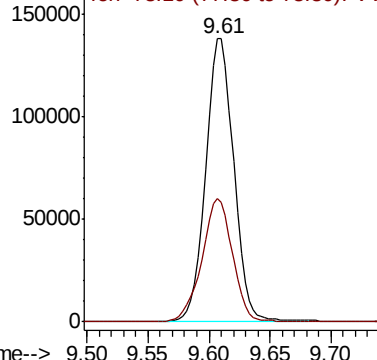
Ion Ratio Lower Upper

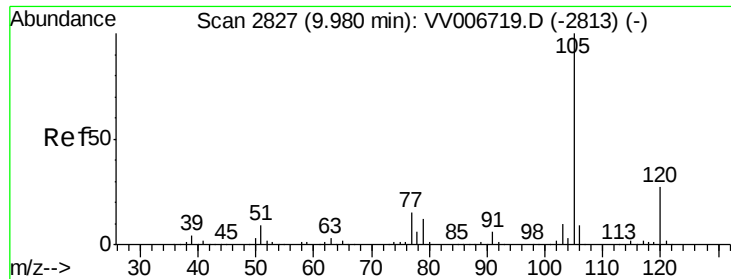
104 100

78 43.8 29.0 53.9



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.993 ug/L

RT: 9.98 min Scan# 2827

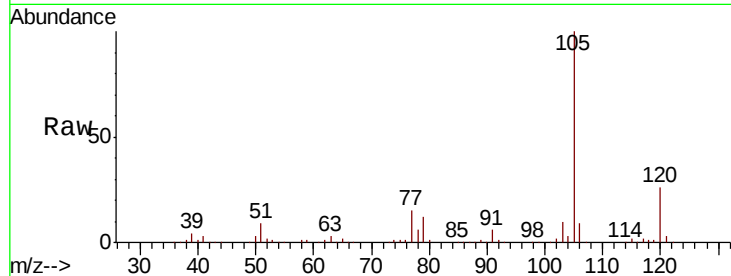
Delta R.T. 0.00 min

Lab File: VV006733.D

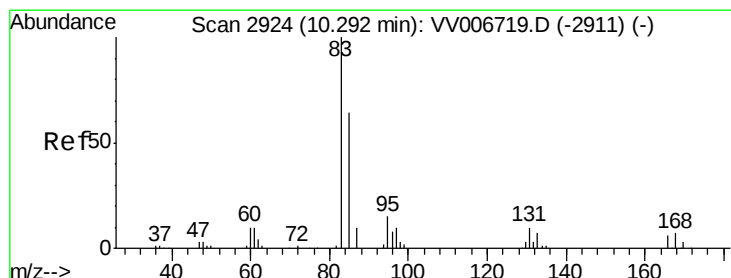
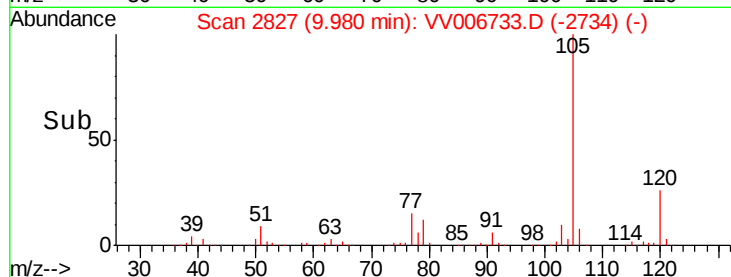
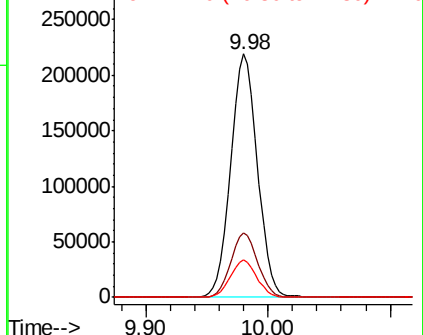
Acq: 27 Jul 2018 18:25

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:	105	Resp:	335549
Ion	Ratio	Lower	Upper
105	100		
120	26.5	21.5	32.3
77	15.1	12.2	18.2



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: 4.908 ug/L

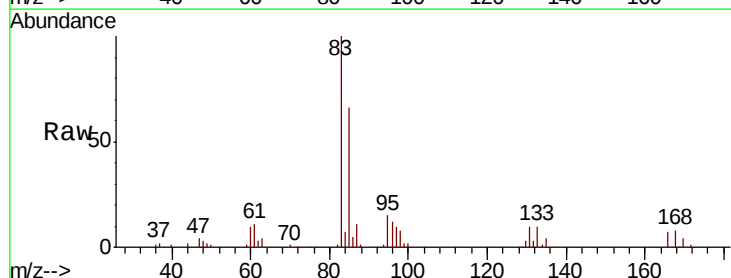
RT: 10.29 min Scan# 2924

Delta R.T. 0.00 min

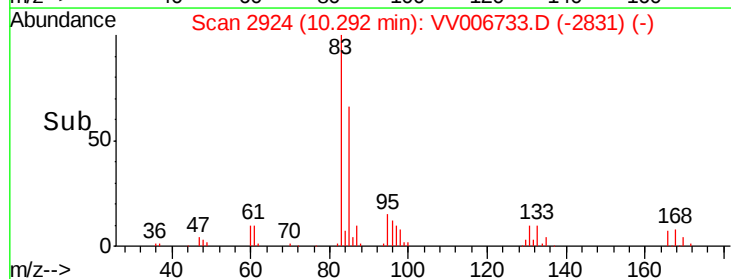
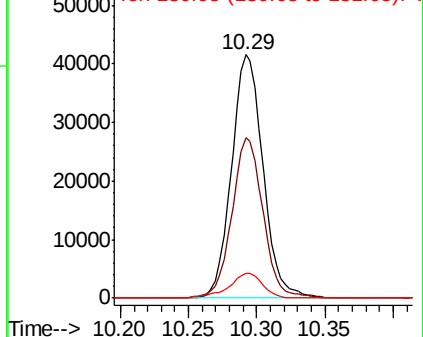
Lab File: VV006733.D

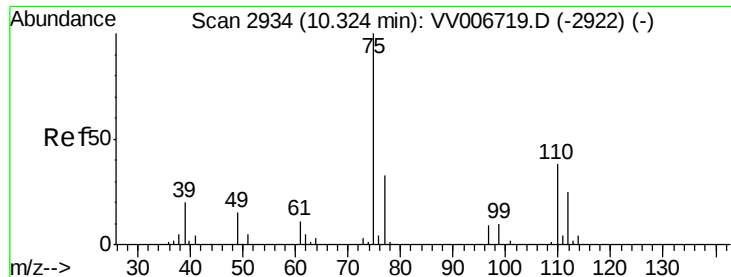
Acq: 27 Jul 2018 18:25

Tgt Ion:	83	Resp:	66549
Ion	Ratio	Lower	Upper
83	100		
85	65.8	45.6	84.6
131	10.3	8.0	12.0



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: 5.054 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

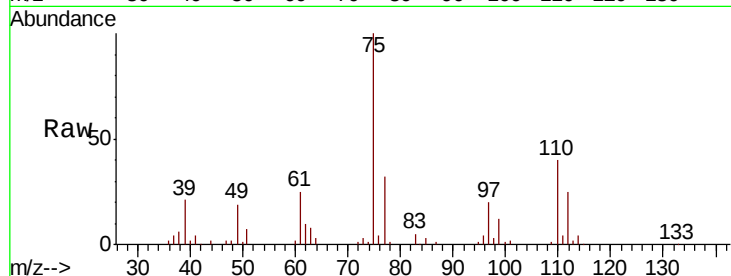
ClientSampleId :

Tot Ion: 75 Resp: 48955

Ion Ratio Lower Upper

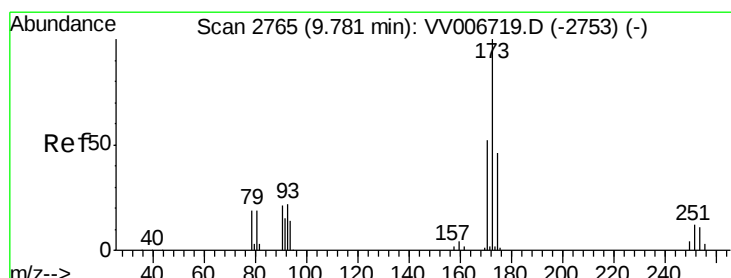
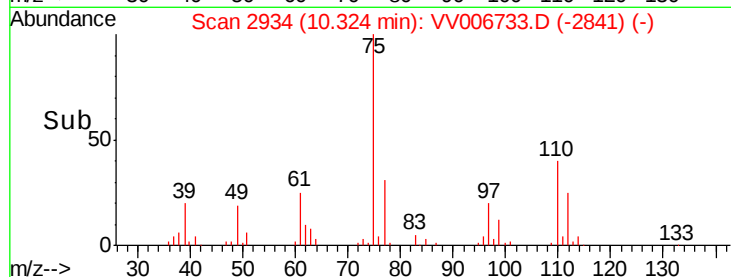
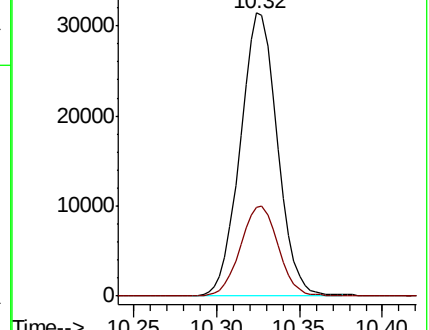
75 100

77 32.4 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VV006719.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV006719.D (-2922) (-)



#61

Bromoform

Concen: 5.213 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

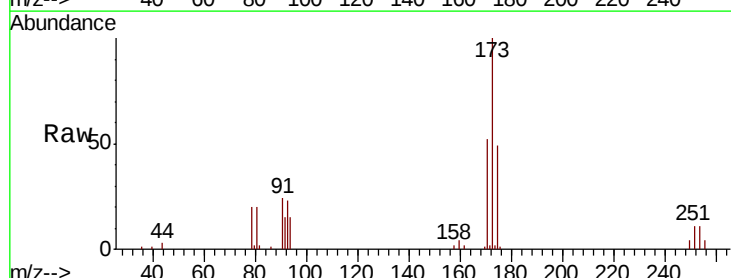
Tgt Ion: 173 Resp: 31127

Ion Ratio Lower Upper

173 100

175 48.5 39.1 58.7

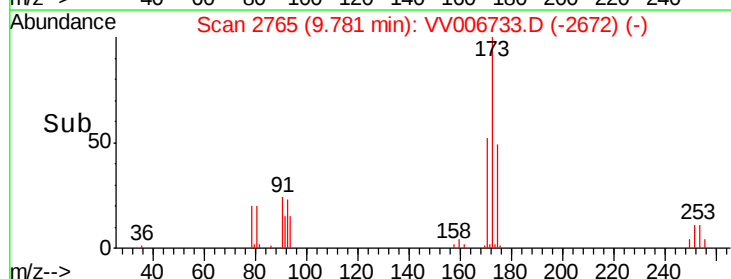
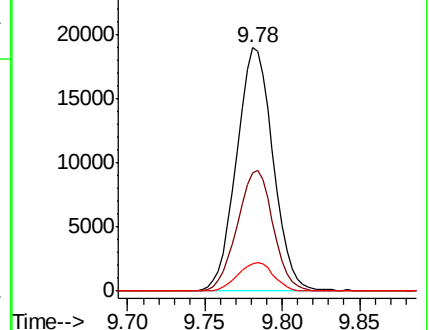
254 11.3 9.1 13.7

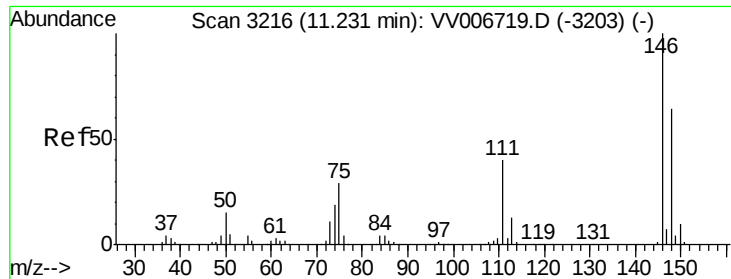


Abundance Ion 172.90 (172.60 to 173.60): VV006719.D (-2753) (-)

Ion 174.90 (174.60 to 175.60): VV006719.D (-2753) (-)

Ion 253.75 (253.45 to 254.45): VV006719.D (-2753) (-)

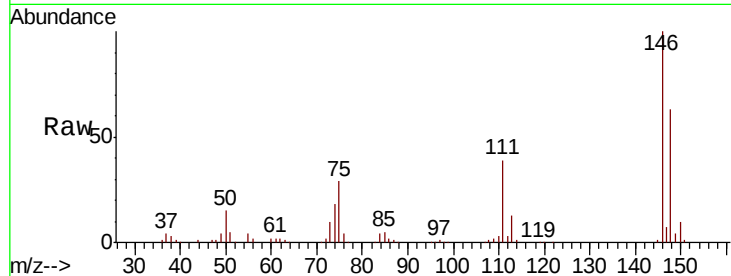




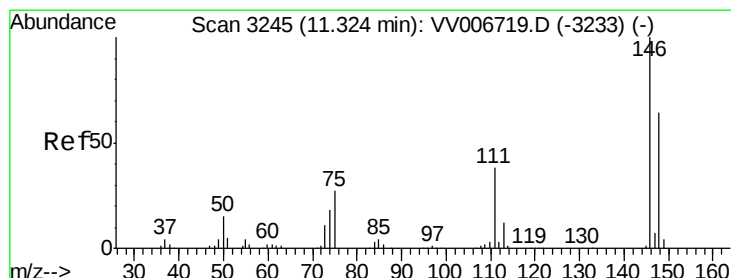
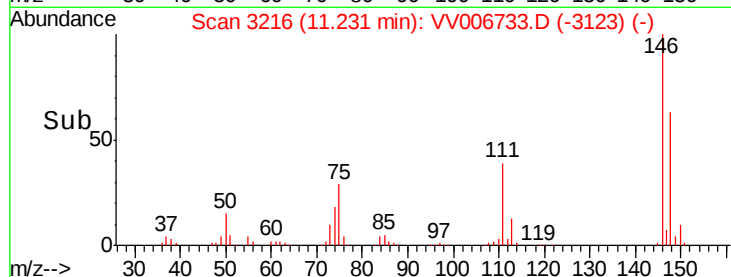
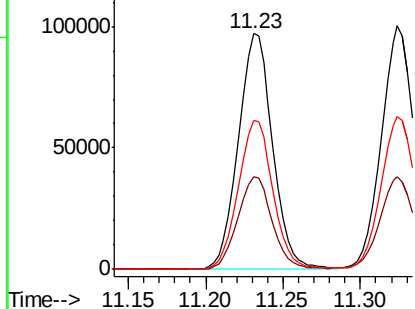
#62
 1,3-Dichlorobenzene
 Concen: 4.931 ug/L
 RT: 11.23 min Scan# 3216
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:146 Resp: 149758
 Ion Ratio Lower Upper
 146 100
 111 39.4 27.5 51.1
 148 63.1 44.5 82.7

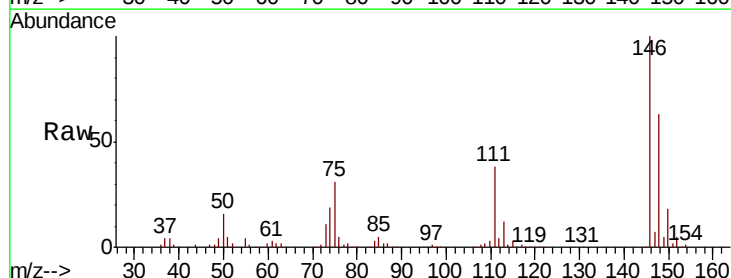


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

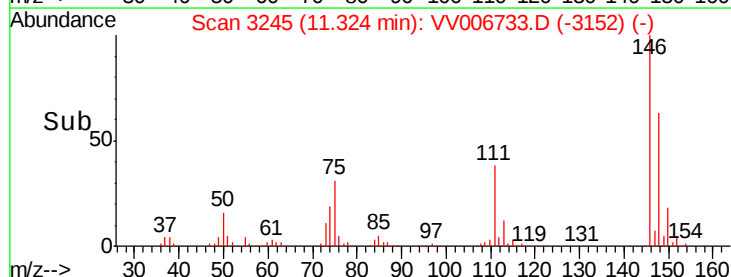
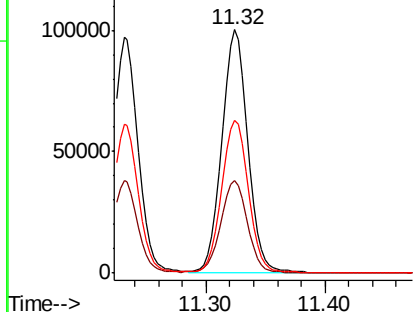


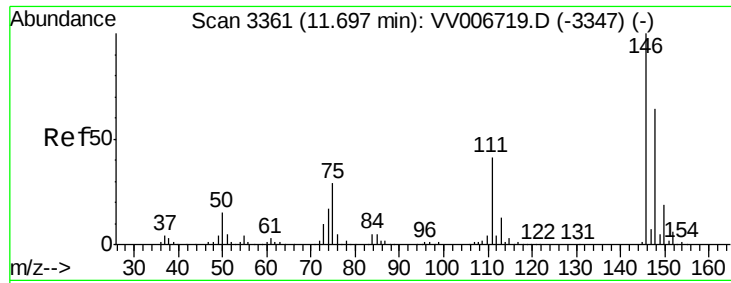
#63
 1,4-Dichlorobenzene
 Concen: 4.913 ug/L
 RT: 11.32 min Scan# 3245
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Tgt Ion:146 Resp: 152072
 Ion Ratio Lower Upper
 146 100
 111 38.1 27.0 50.2
 148 62.7 45.1 83.7



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.021 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

ClientSampleId :

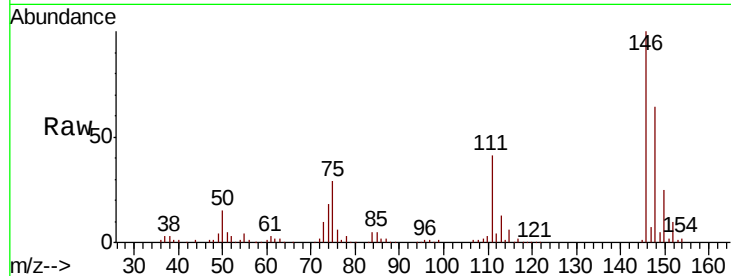
Tot Ion:146 Resp: 148545

Ion Ratio Lower Upper

146 100

111 40.6 32.9 49.3

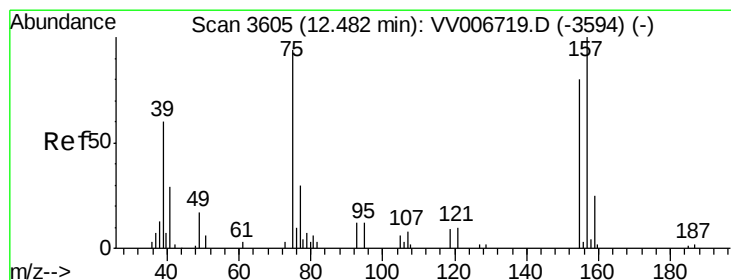
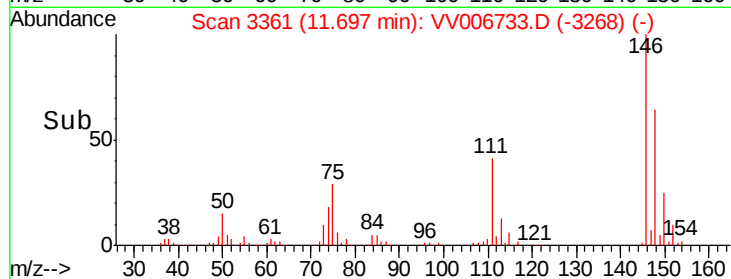
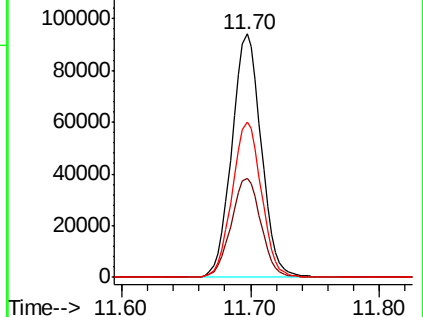
148 64.0 50.2 75.4



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



#66

1,2-Dibromo-3-chloropropane

Concen: 5.040 ug/L

RT: 12.48 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

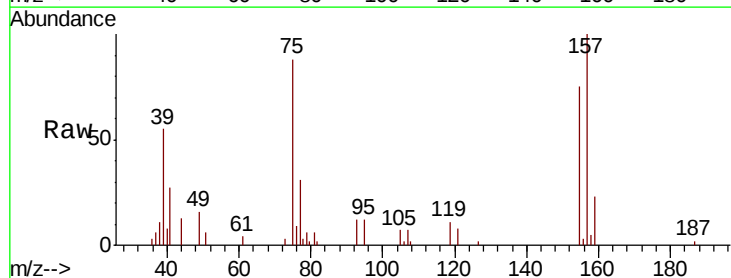
Tgt Ion: 75 Resp: 8924

Ion Ratio Lower Upper

75 100

155 85.2 68.8 103.2

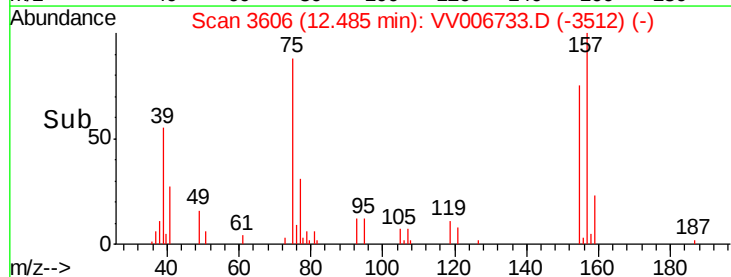
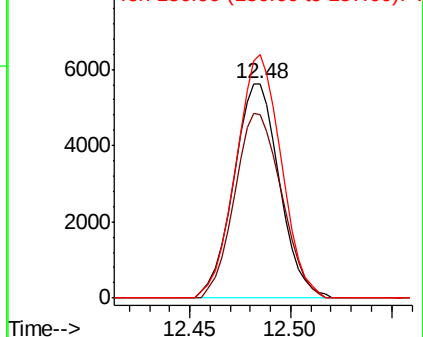
157 113.5 85.6 128.4

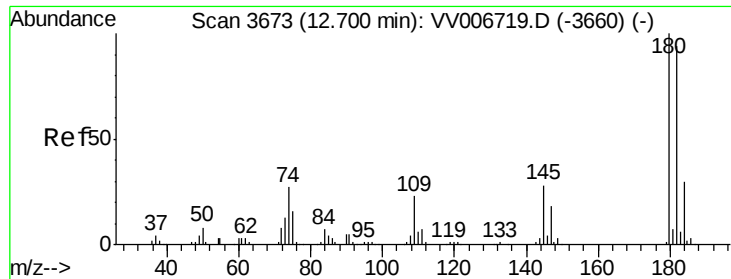


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

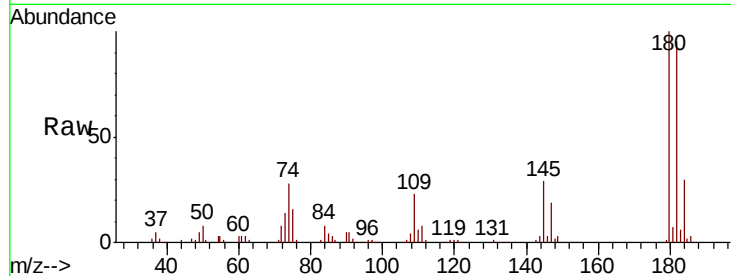




#67
 1,3,5-Trichlorobenzene
 Concen: 4.928 ug/L
 RT: 12.70 min Scan# 3672
 Delta R.T. -0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.8	115.2
184	30.0	24.6	37.0
145	29.1	22.8	34.2



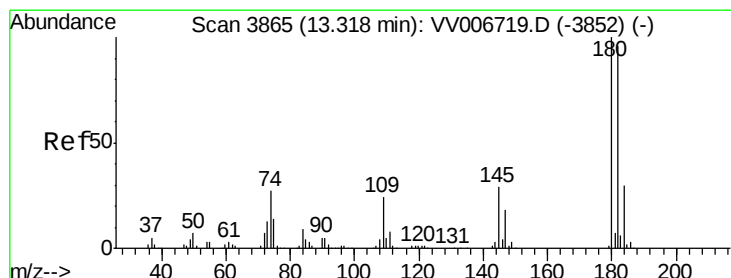
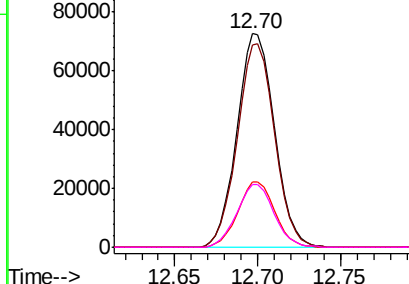
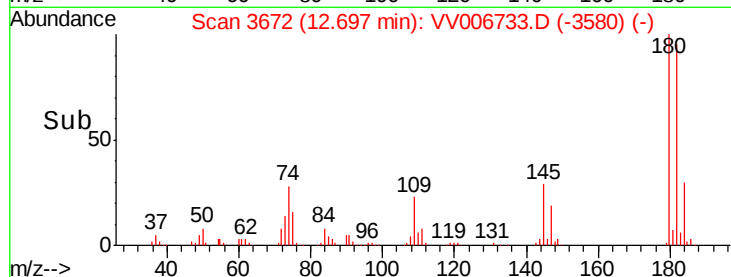
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

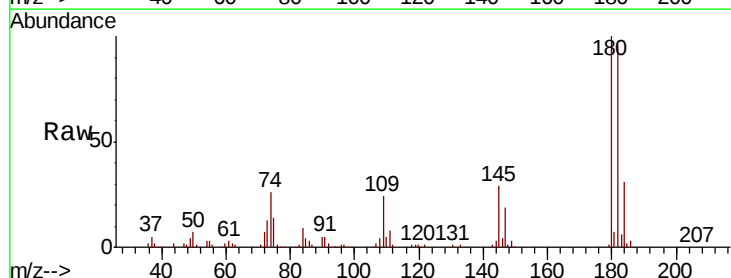
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.797 ug/L
 RT: 13.32 min Scan# 3865
 Delta R.T. 0.00 min
 Lab File: VV006733.D
 Acq: 27 Jul 2018 18:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.4
145	29.6	23.4	35.0

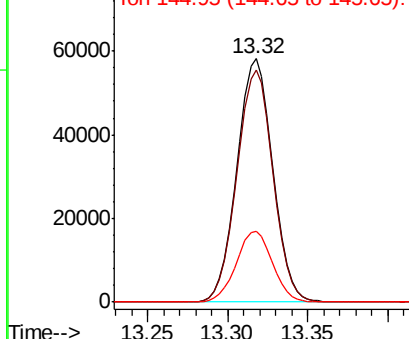
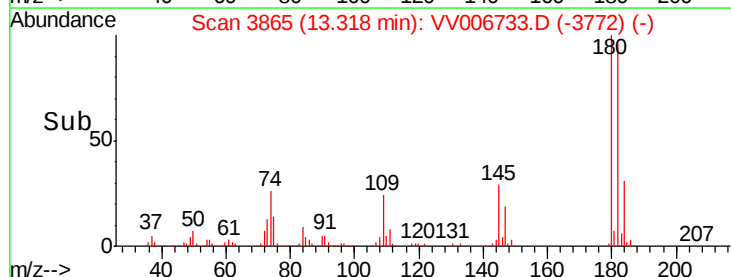


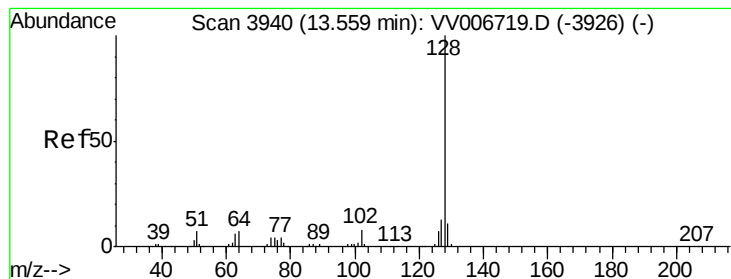
Abundance

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: 4.774 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

Instrument :

MSVOA_V

ClientSampleId :

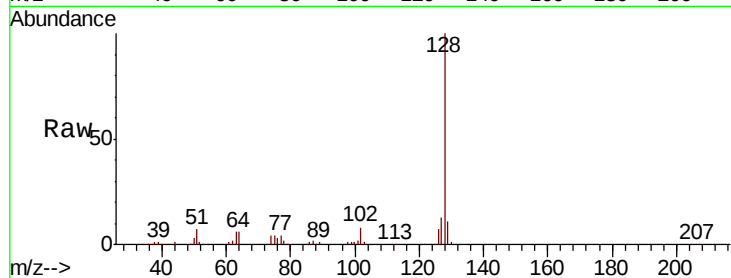
Tot Ion:128 Resp: 150480

Ion Ratio Lower Upper

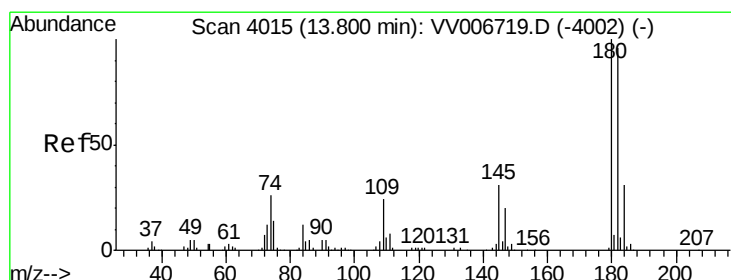
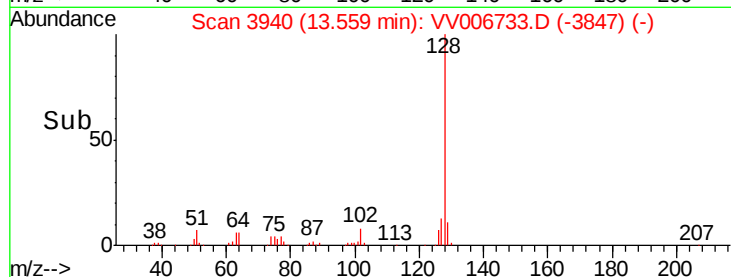
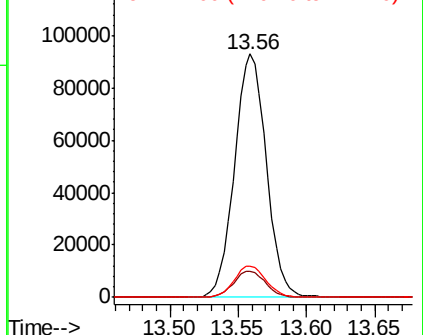
128 100

129 10.8 8.7 13.1

127 12.9 10.3 15.5



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: 4.910 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. 0.00 min

Lab File: VV006733.D

Acq: 27 Jul 2018 18:25

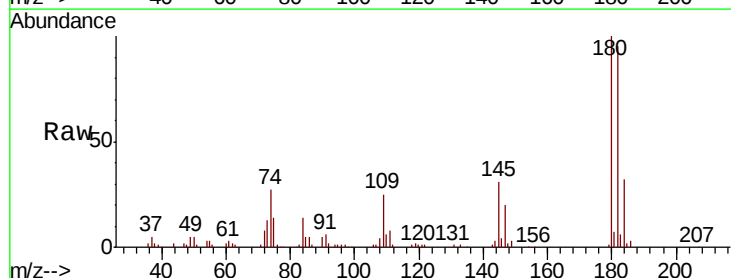
Tgt Ion:180 Resp: 85595

Ion Ratio Lower Upper

180 100

182 95.2 75.3 112.9

145 30.9 24.5 36.7



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

