

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100118\
 Data File : VV007999.D
 Acq On : 01 Oct 2018 17:11
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 02 02:57:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 02 02:56:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	88756	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	86903	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	46712	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	24447	5.14	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.80%
7) Chloroethane-d5	1.59	69	20483	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.14	63	52048	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.80%
20) 2-Butanone-d5	3.97	46	66187	46.25	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.50%
24) Chloroform-d	4.41	84	55538	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.40%
26) 1,2-Dichloroethane-d4	5.09	65	27922	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
32) Benzene-d6	5.10	84	103274	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.13	67	31775	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.60%
41) Toluene-d8	7.36	98	105149	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
43) trans-1,3-Dichloropropene-	7.67	79	12059	4.76	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.20%
46) 2-Hexanone-d5	8.14	63	51230	45.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.66%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	24453	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	42932	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	37693	5.063	ug/L 99
3) Chloromethane	1.25	50	33109	4.999	ug/L 97
5) Vinyl chloride	1.32	62	35089	4.949	ug/L 99
6) Bromomethane	1.54	94	26148	5.978	ug/L 100
8) Chloroethane	1.60	64	21538	5.037	ug/L 99
9) Trichlorofluoromethane	1.77	101	58771	5.077	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	34194	5.208	ug/L 99
12) 1,1-Dichloroethene	2.15	96	29501	5.028	ug/L 95
13) Acetone	2.22	43	47851	45.890	ug/L 99
14) Carbon disulfide	2.32	76	75672	4.758	ug/L 98
15) Methyl Acetate	2.47	43	12154	4.558	ug/L 98
16) Methylene chloride	2.54	84	31745	4.870	ug/L 97
17) Methyl tert-butyl Ether	2.81	73	71901	4.960	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	32212	4.981	ug/L 97
19) 1,1-Dichloroethane	3.23	63	56808	5.148	ug/L 99
21) 2-Butanone	4.05	43	78680	47.361	ug/L 100
22) cis-1,2-Dichloroethene	3.97	96	34423	5.257	ug/L 100

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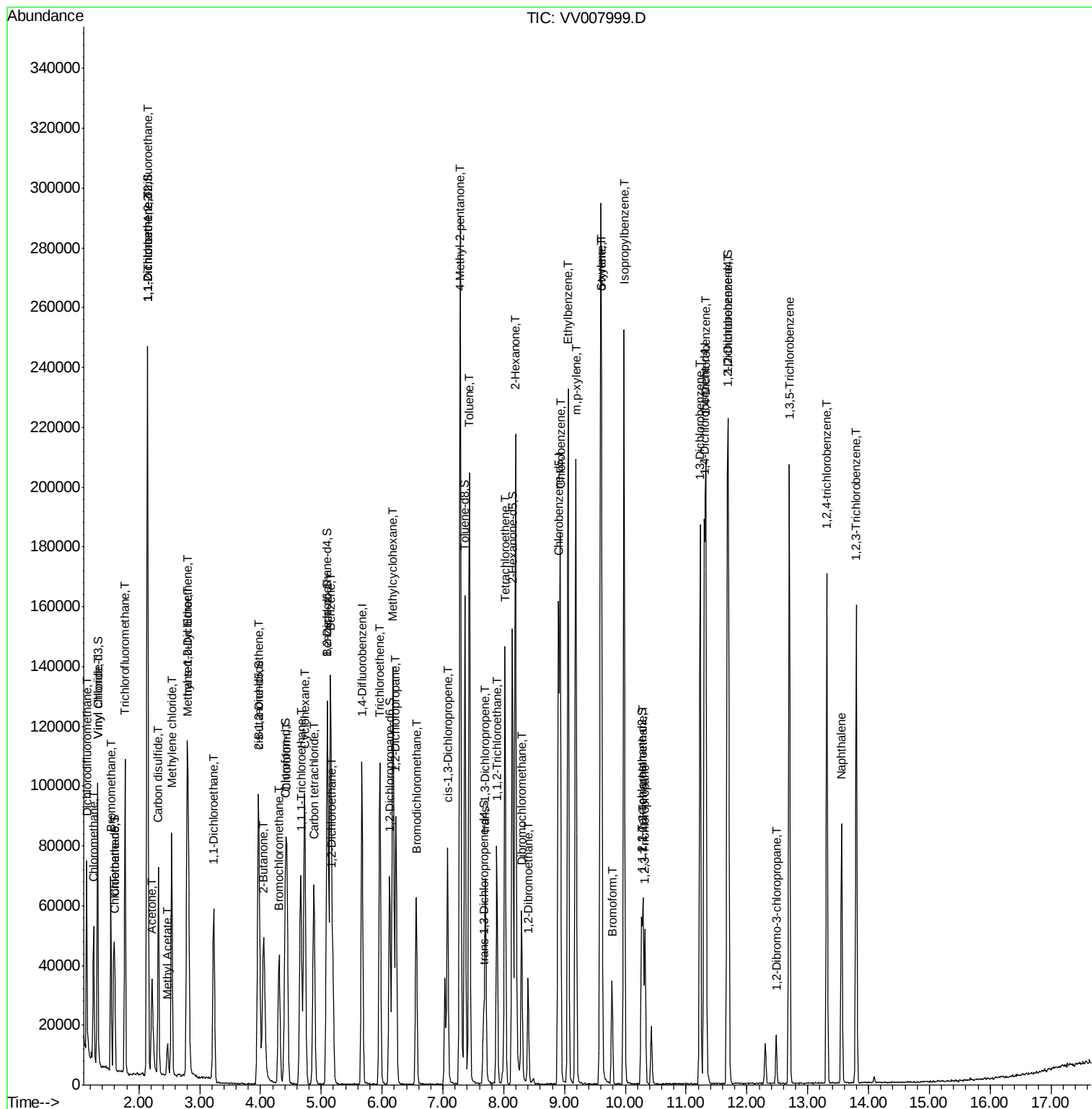
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	15200	5.338	ug/L	94
25) Chloroform	4.43	83	62029	5.198	ug/L	98
27) 1,2-Dichloroethane	5.19	62	39000	5.078	ug/L	98
29) 1,1,1-Trichloroethane	4.66	97	56232	5.381	ug/L	98
30) Cyclohexane	4.73	56	49322	5.021	ug/L	99
31) Carbon tetrachloride	4.88	117	49239	5.345	ug/L	99
33) Benzene	5.15	78	131234	5.274	ug/L	100
34) Trichloroethene	5.96	95	35424	4.972	ug/L	94
35) Methylcyclohexane	6.18	83	54072	5.061	ug/L	99
37) 1,2-Dichloropropane	6.23	63	33511	5.271	ug/L	99
38) Bromodichloromethane	6.56	83	40283	5.299	ug/L	99
39) cis-1,3-Dichloropropene	7.08	75	45262	5.322	ug/L	96
40) 4-Methyl-2-pentanone	7.28	43	198264	49.689	ug/L	100
42) Toluene	7.43	91	145040	5.352	ug/L	98
44) trans-1,3-Dichloropropene	7.70	75	36552	5.171	ug/L	99
45) 1,1,2-Trichloroethane	7.89	97	23245	5.067	ug/L	98
47) Tetrachloroethene	8.02	164	34044	5.156	ug/L	97
48) 2-Hexanone	8.19	43	134705	48.540	ug/L	98
49) Dibromochloromethane	8.30	129	28232	5.391	ug/L	100
50) 1,2-Dibromoethane	8.40	107	22329	5.325	ug/L	99
51) Chlorobenzene	8.93	112	95491	5.101	ug/L	98
52) Ethylbenzene	9.06	91	154028	5.095	ug/L	100
53) m,p-xylene	9.19	106	59349	5.155	ug/L	99
54) o-xylene	9.59	106	56818	5.110	ug/L	98
55) Styrene	9.61	104	99128	5.220	ug/L	99
56) Isopropylbenzene	9.98	105	157012	5.214	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	27426	5.090	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	20042	5.067	ug/L	100
61) Bromoform	9.78	173	15714	5.601	ug/L	96
62) 1,3-Dichlorobenzene	11.23	146	79395	5.148	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	80984	5.051	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	75643	5.203	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	3790	5.118	ug/L	82
67) 1,3,5-Trichlorobenzene	12.70	180	68484	5.186	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	53793	4.820	ug/L	99
69) Naphthalene	13.56	128	70020	4.485	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	49779	4.925	ug/L	98

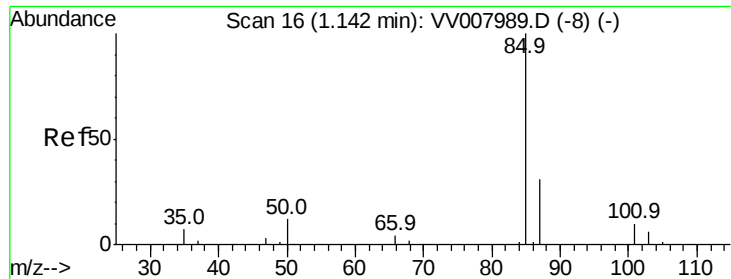
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 5.063 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

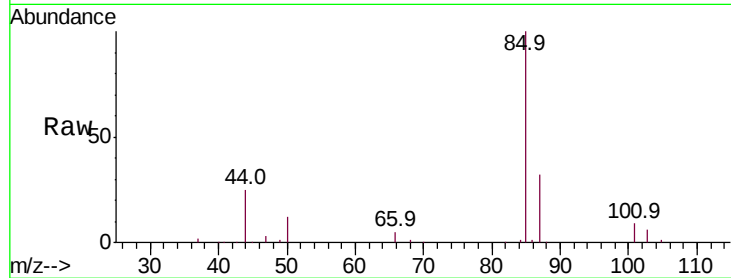
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 37693

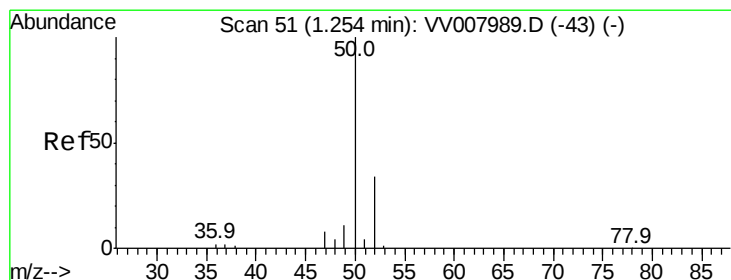
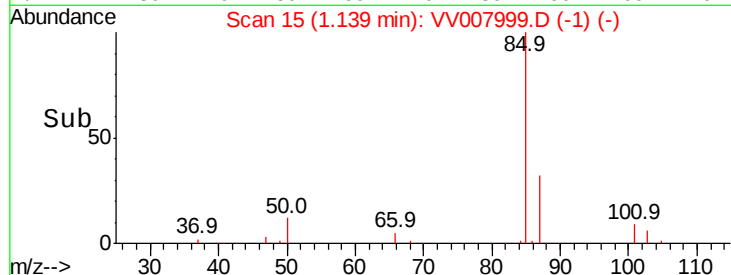
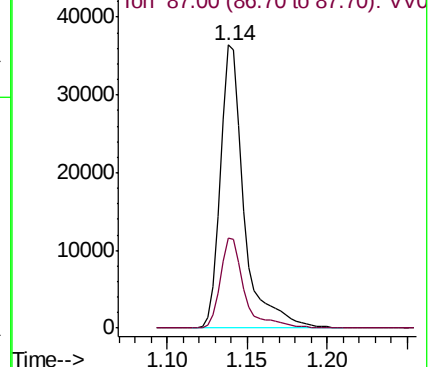
Ion Ratio Lower Upper

85 100

87 32.3 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VV007989.D (-8) (-)



#3

Chloromethane

Concen: 4.999 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV007999.D

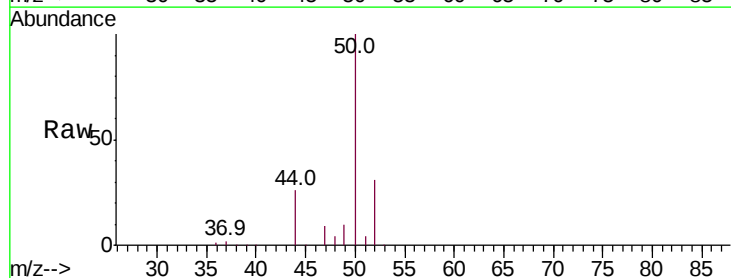
Acq: 01 Oct 2018 17:11

Tgt Ion: 50 Resp: 33109

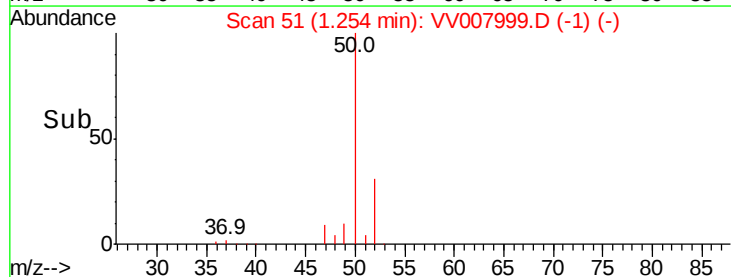
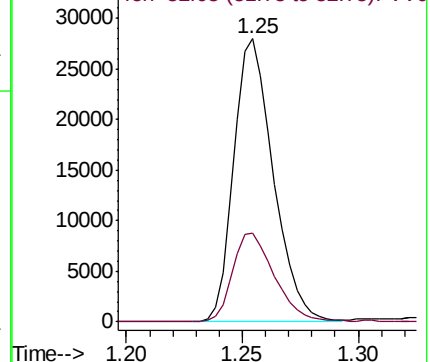
Ion Ratio Lower Upper

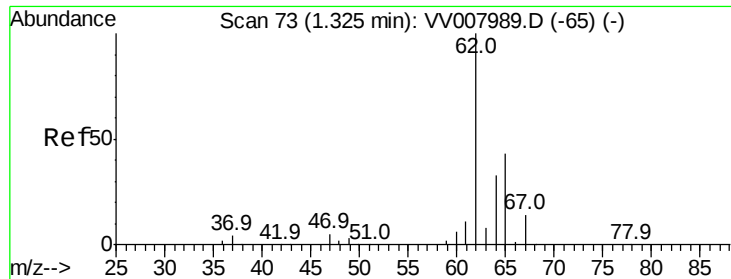
50 100

52 31.4 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VV007989.D (-43) (-)





#5

Vinyl chloride

Concen: 4.949 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

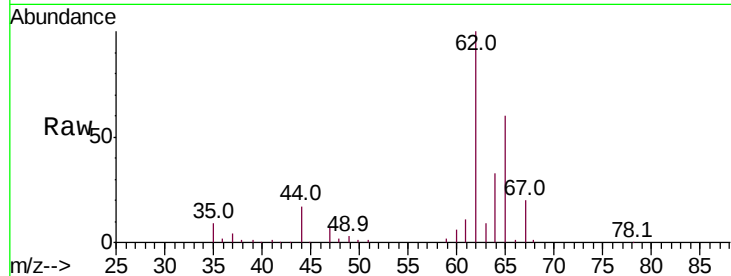
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 35089

Ion Ratio Lower Upper

62 100

64 33.5 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VV007989.D (-65) (-)

Ion 64.10 (63.80 to 64.80): VV007989.D (-65) (-)

1.32

30000

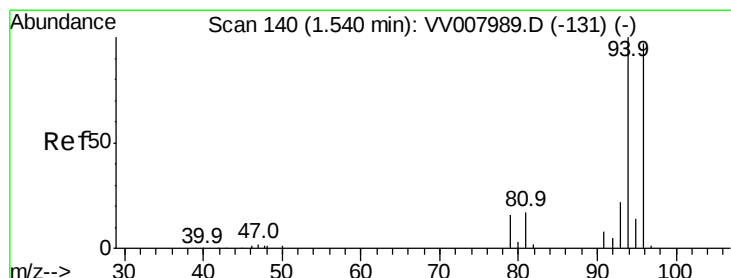
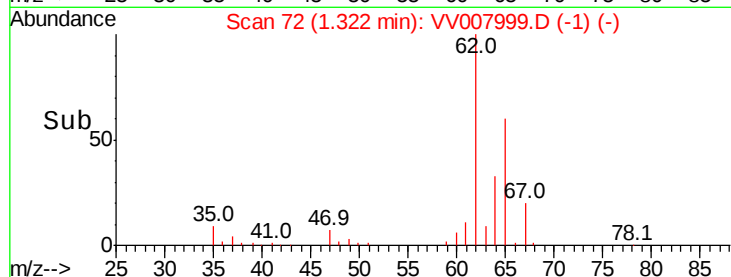
20000

10000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 5.978 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV007999.D

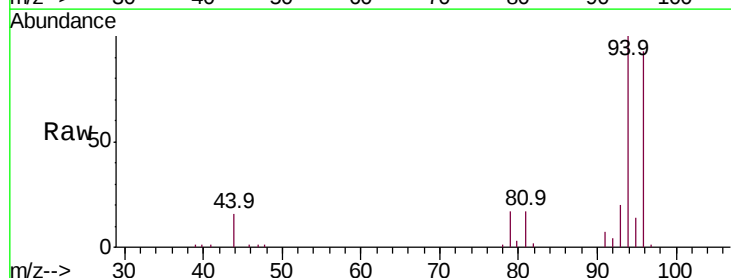
Acq: 01 Oct 2018 17:11

Tgt Ion: 94 Resp: 26148

Ion Ratio Lower Upper

94 100

96 93.3 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VV007989.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV007989.D (-131) (-)

1.54

25000

20000

15000

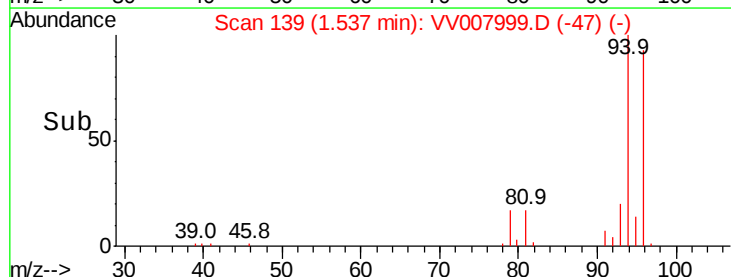
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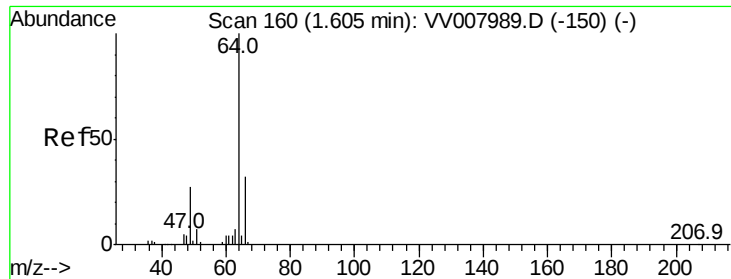
5000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 5.037 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

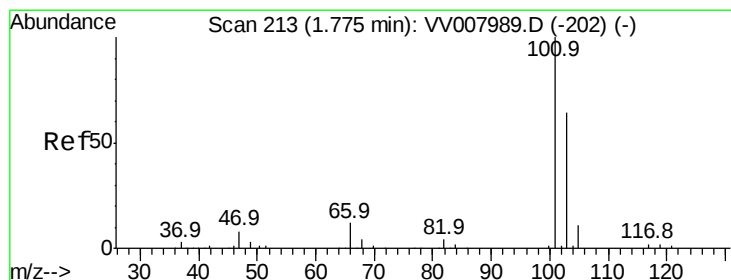
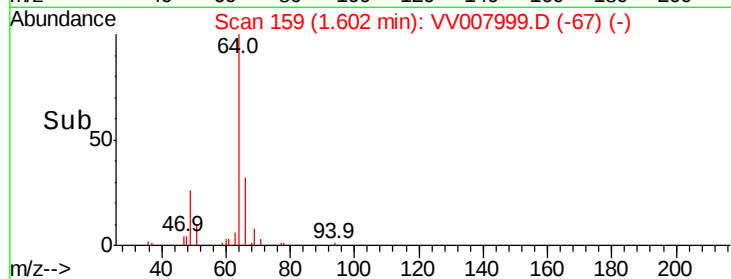
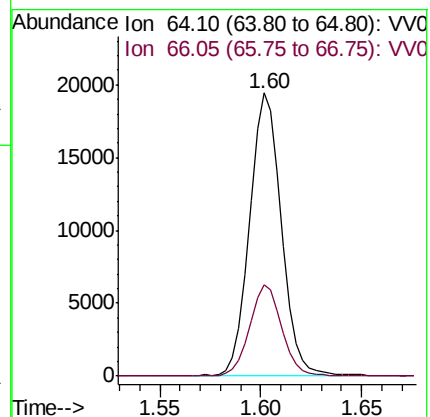
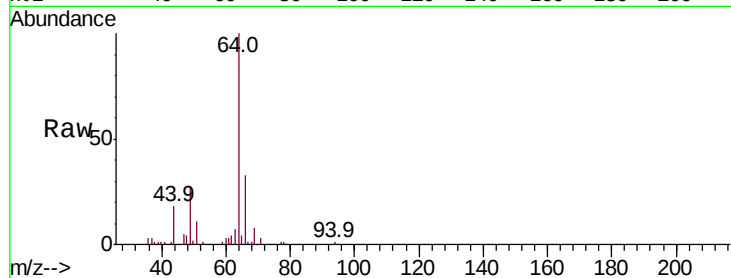
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 21538

Ion Ratio Lower Upper

64 100

66 32.5 23.1 42.9



#9

Trichlorofluoromethane

Concen: 5.077 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV007999.D

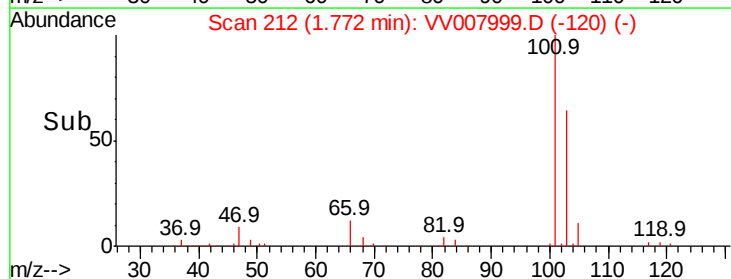
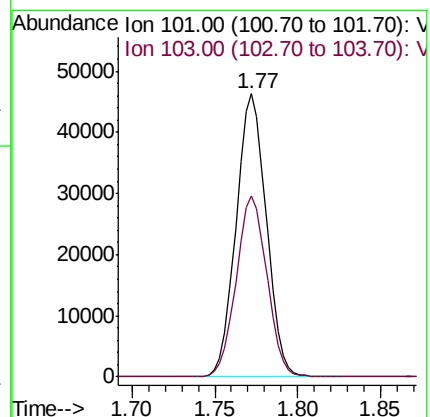
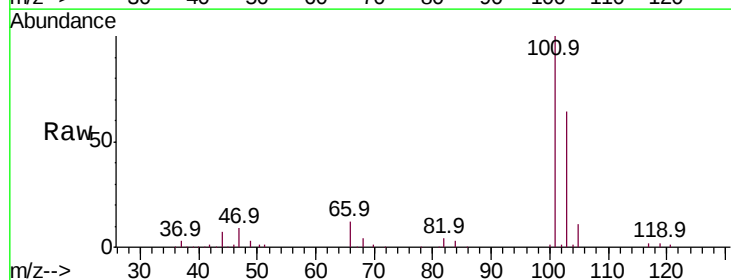
Acq: 01 Oct 2018 17:11

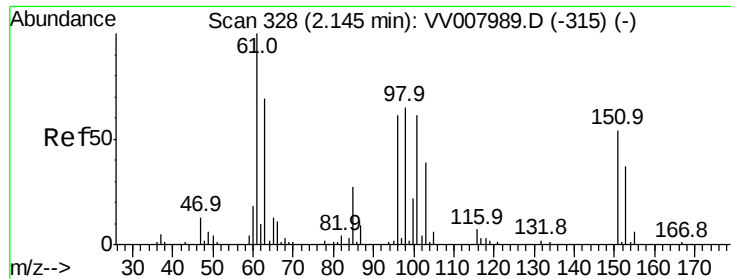
Tgt Ion: 101 Resp: 58771

Ion Ratio Lower Upper

101 100

103 64.8 51.5 77.3





#10

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

Concen: 5.208 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :

MSVOA_V

ClientSampleId :

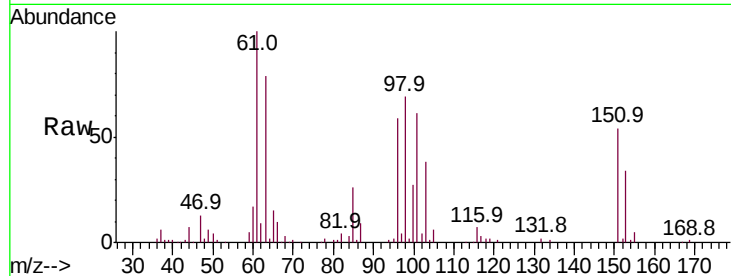
Tot Ion:101 Resp: 34194

Ion Ratio Lower Upper

101 100

85 43.5 34.7 52.1

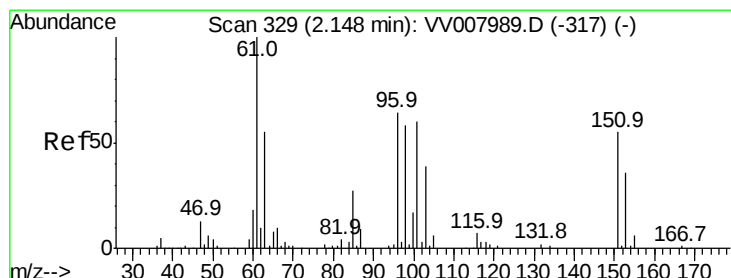
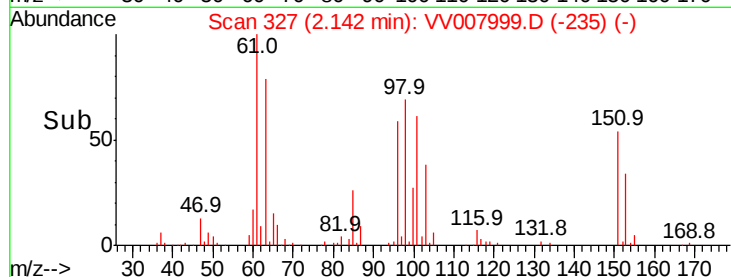
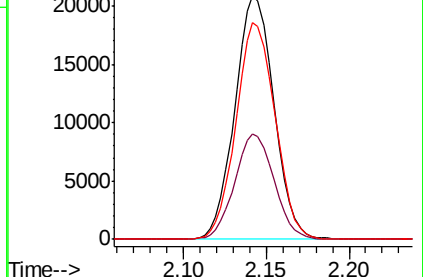
151 89.1 72.2 108.2



Abundance Ion 101.00 (100.70 to 101.70): VV007989.D (-315) (-)

Ion 85.00 (84.70 to 85.70): VV007989.D (-315) (-)

Ion 151.00 (150.70 to 151.70): VV007989.D (-315) (-)



#12

1,1-Dichloroethene

Concen: 5.028 ug/L

RT: 2.15 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

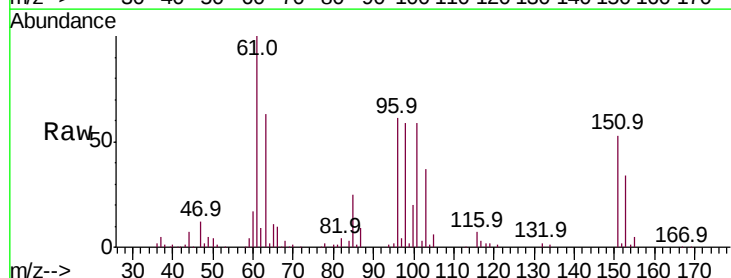
Tgt Ion: 96 Resp: 29501

Ion Ratio Lower Upper

96 100

61 164.4 114.1 211.9

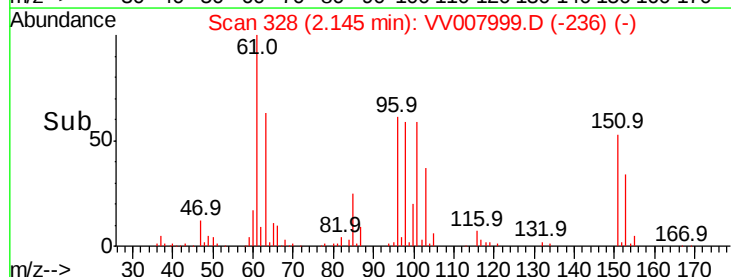
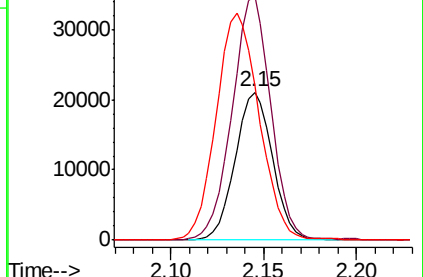
63 103.8 81.5 151.3

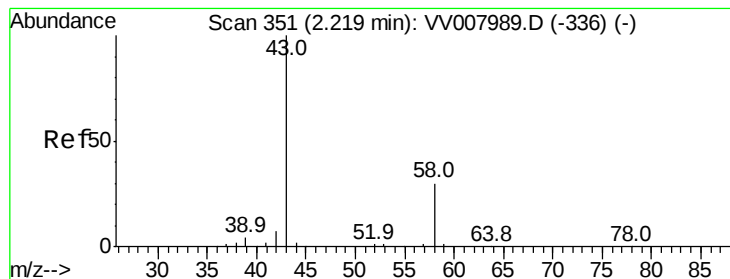


Abundance Ion 96.00 (95.70 to 96.70): VV007989.D (-317) (-)

Ion 61.05 (60.75 to 61.75): VV007989.D (-317) (-)

Ion 63.00 (62.70 to 63.70): VV007989.D (-317) (-)





#13

Acetone

Concen: 45.890 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

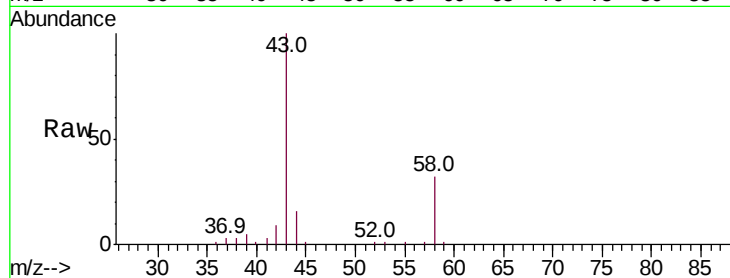
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 47851

Ion Ratio Lower Upper

43 100

58 30.5 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV007989.D (-336) (-)

Ion 58.05 (57.75 to 58.75): VV007989.D (-336) (-)

2.22

20000

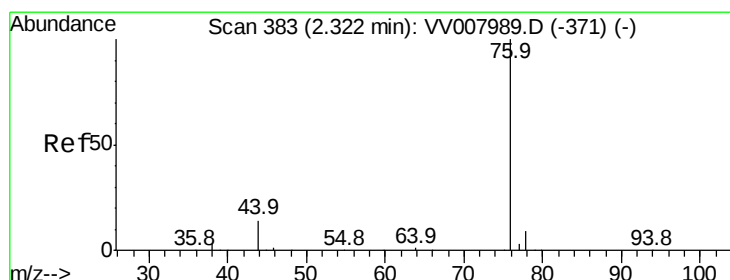
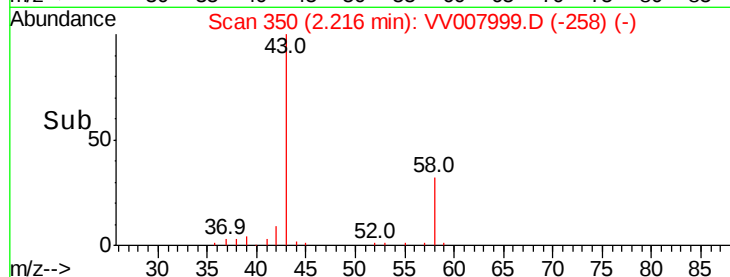
15000

10000

5000

0

Time--> 2.10 2.20 2.30



#14

Carbon disulfide

Concen: 4.758 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV007999.D

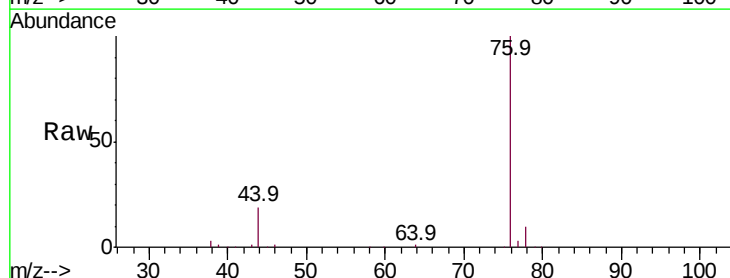
Acq: 01 Oct 2018 17:11

Tgt Ion: 76 Resp: 75672

Ion Ratio Lower Upper

76 100

78 9.8 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV007989.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV007989.D (-371) (-)

2.32

60000

50000

40000

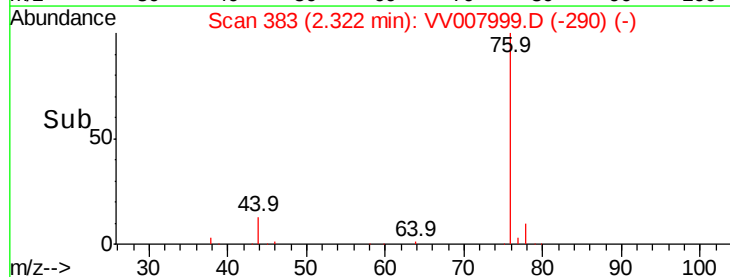
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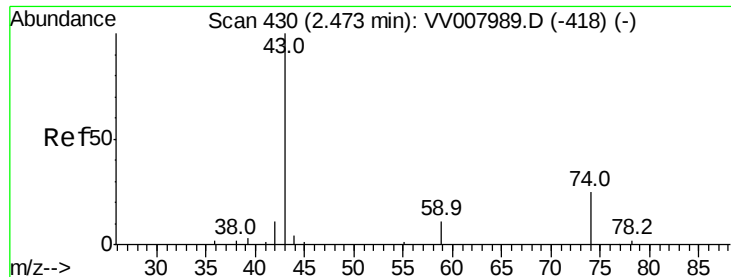
20000

10000

0

Time--> 2.25 2.30 2.35





#15

Methyl Acetate

Concen: 4.558 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

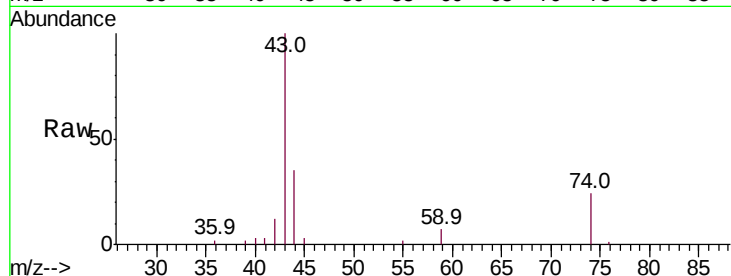
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 12154

Ion Ratio Lower Upper

43 100

74 25.4 19.5 29.3



Abundance Ion 43.05 (42.75 to 43.75): VV007989.D (-418) (-)

Ion 74.05 (73.75 to 74.75): VV007989.D (-418) (-)

2.47

8000

6000

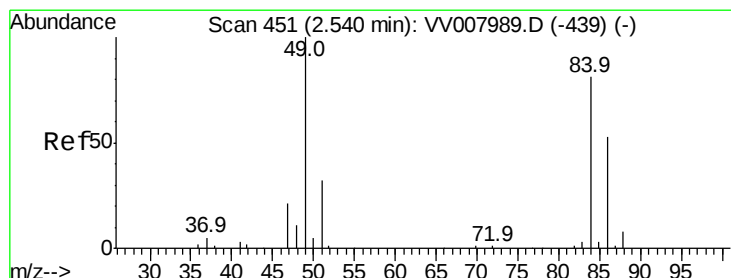
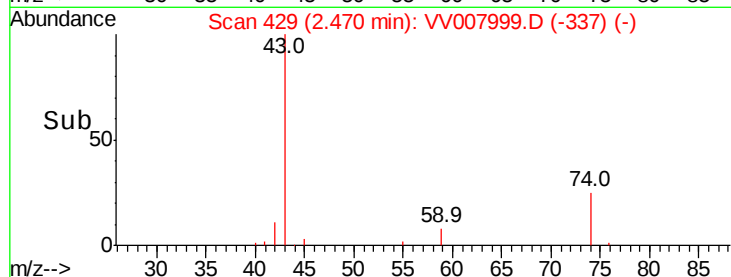
4000

2000

0

Time-->

2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 4.870 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

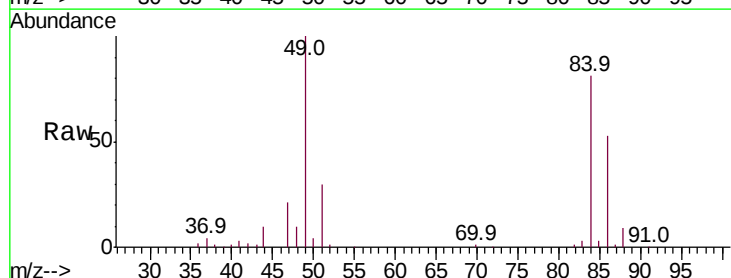
Tgt Ion: 84 Resp: 31745

Ion Ratio Lower Upper

84 100

86 66.0 47.3 87.8

49 123.9 90.0 167.2



Abundance Ion 84.05 (83.75 to 84.75): VV007989.D (-439) (-)

Ion 86.00 (85.70 to 86.70): VV007989.D (-439) (-)

Ion 49.10 (48.80 to 49.80): VV007989.D (-439) (-)

2.54

30000

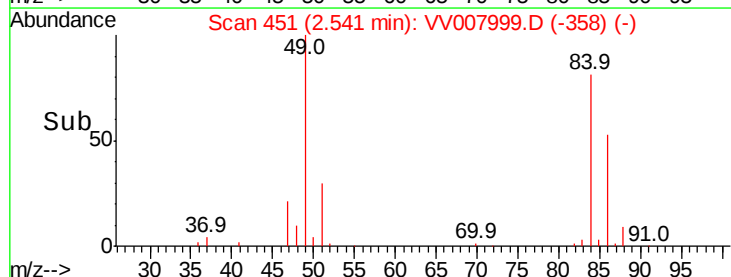
20000

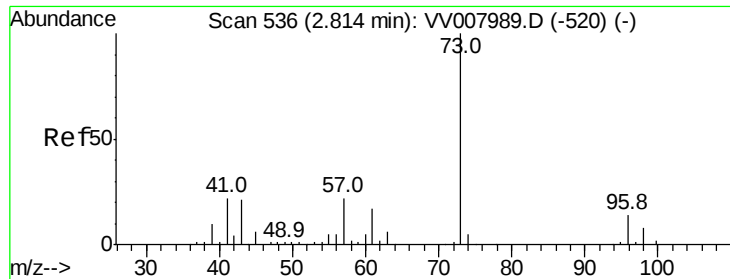
10000

0

Time-->

2.50 2.55 2.60

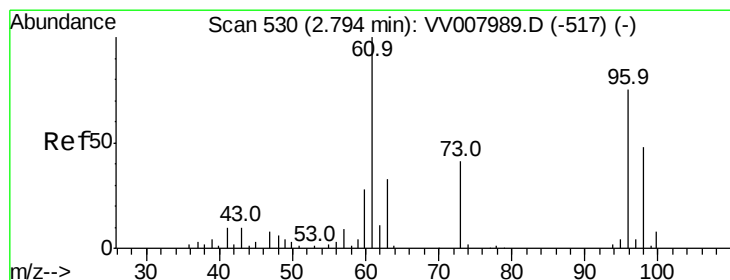
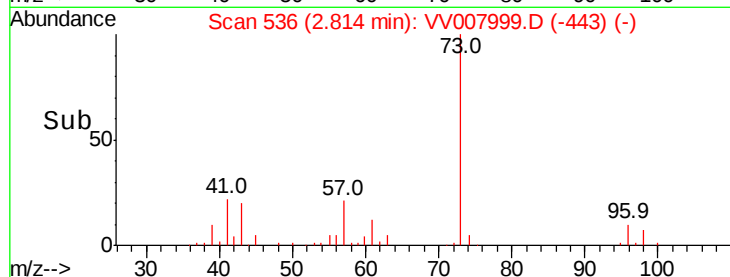
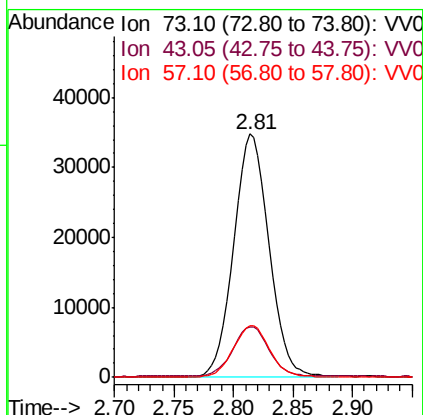
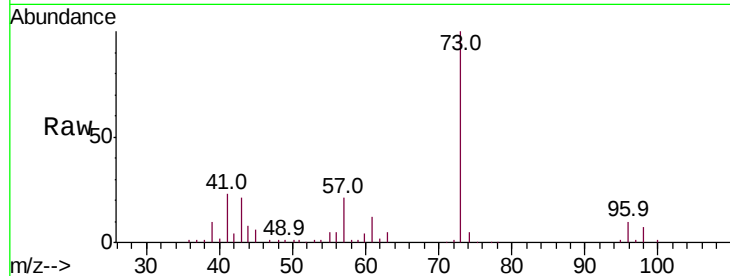




#17
Methvl tert-butvl Ether
Concen: 4.960 ug/L
RT: 2.81 min Scan# 536
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

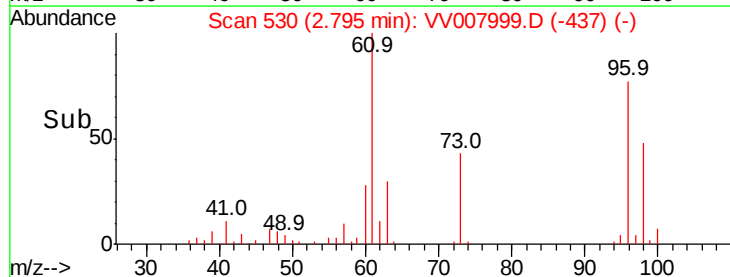
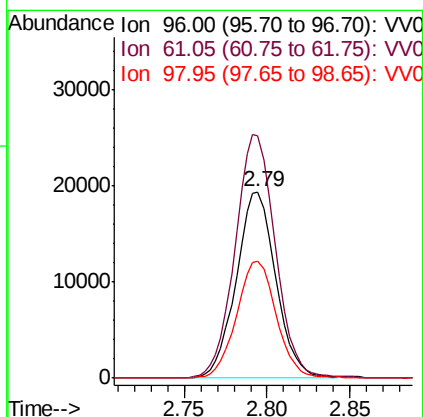
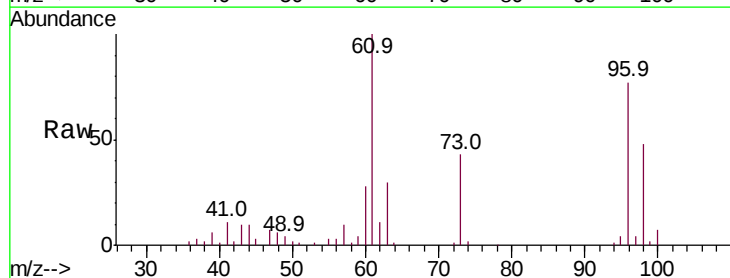
Instrument :
MSVOA_V
ClientSampleId :

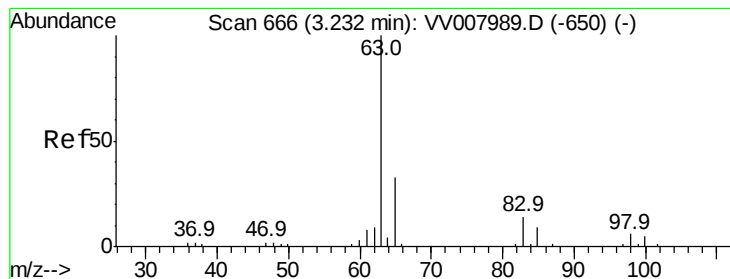
Tot Ion: 73 Resp: 71901
Ion Ratio Lower Upper
73 100
43 20.7 16.8 25.2
57 21.8 17.6 26.4



#18
trans-1,2-Dichloroethene
Concen: 4.981 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Tgt Ion: 96 Resp: 32212
Ion Ratio Lower Upper
96 100
61 129.9 94.2 175.0
98 62.8 44.9 83.5





#19

1,1-Dichloroethane

Concen: 5.148 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :
MSVOA_V
ClientSampleId :

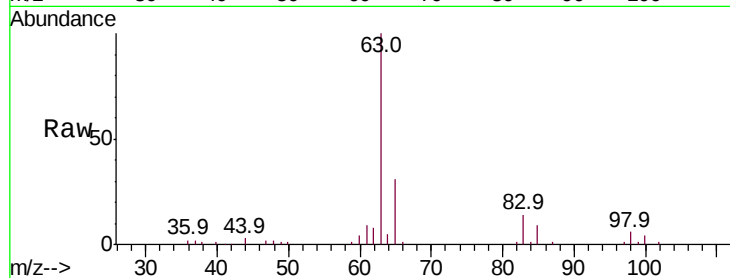
Tot Ion: 63 Resp: 56808

Ion Ratio Lower Upper

63 100

65 31.1 22.3 41.5

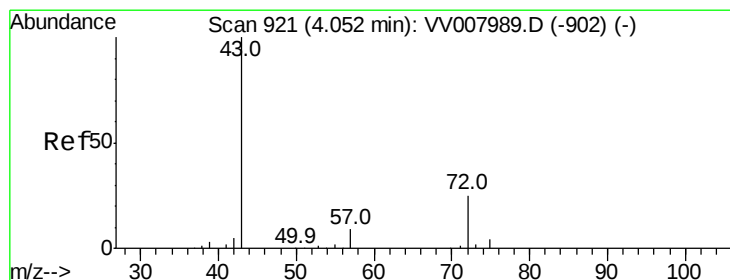
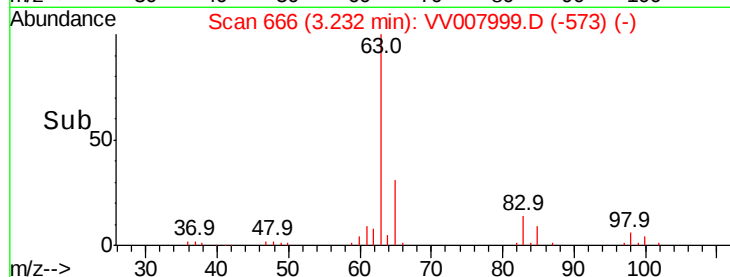
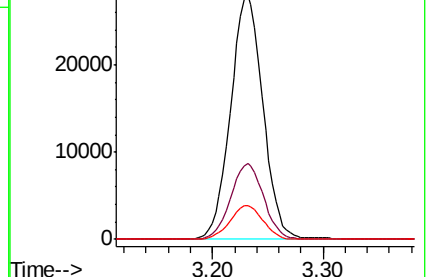
83 14.1 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VV007989.D (-650) (-)

Ion 65.10 (64.80 to 65.80): VV007989.D (-650) (-)

Ion 83.05 (82.75 to 83.75): VV007989.D (-650) (-)



#21

2-Butanone

Concen: 47.361 ug/L

RT: 4.05 min Scan# 921

Delta R.T. 0.00 min

Lab File: VV007999.D

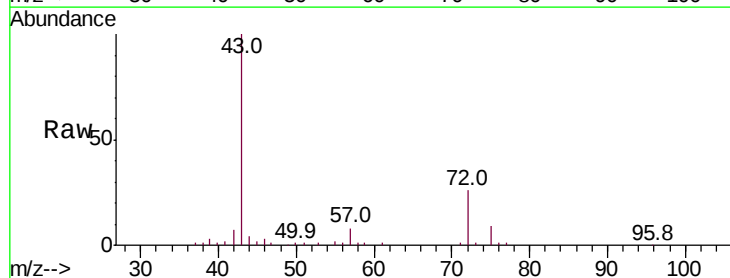
Acq: 01 Oct 2018 17:11

Tgt Ion: 43 Resp: 78680

Ion Ratio Lower Upper

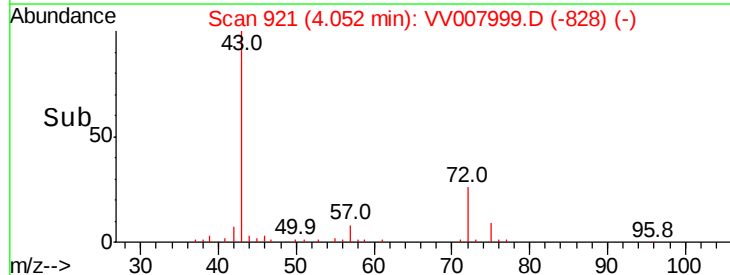
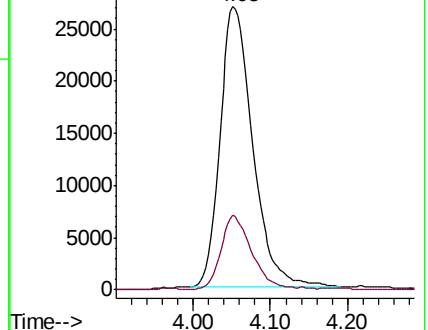
43 100

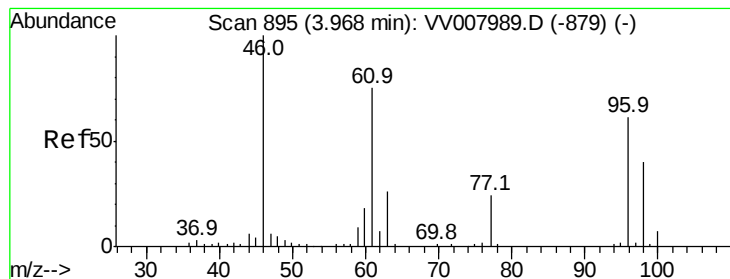
72 25.2 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VV007989.D (-902) (-)

Ion 72.10 (71.80 to 72.80): VV007989.D (-902) (-)



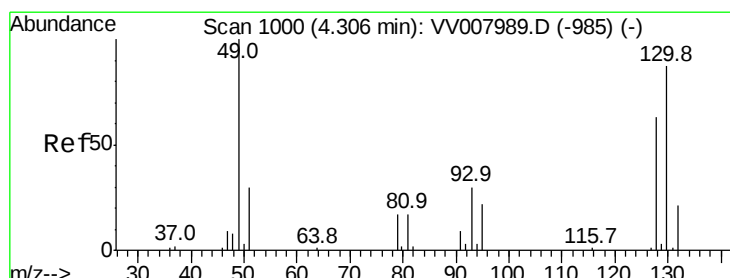
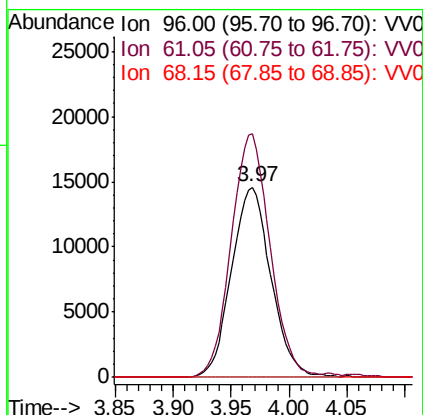
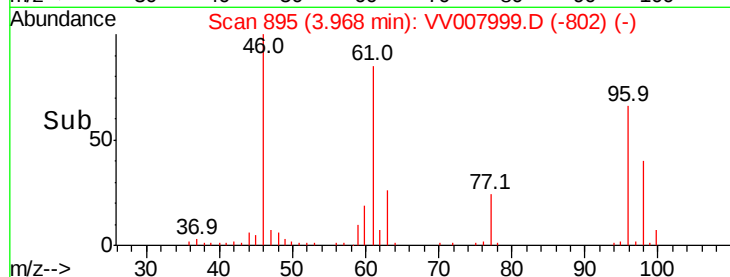
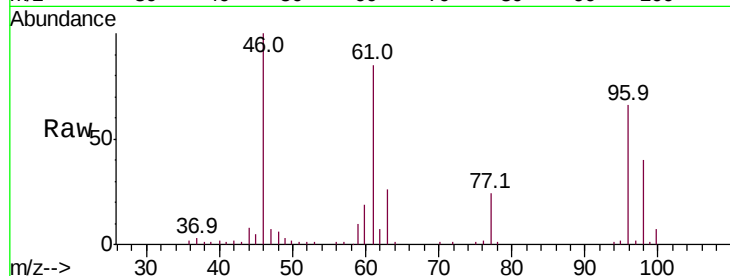


#22

cis-1,2-Dichloroethene
 Concen: 5.257 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Instrument :
 MSVOA_V
 ClientSampleId :

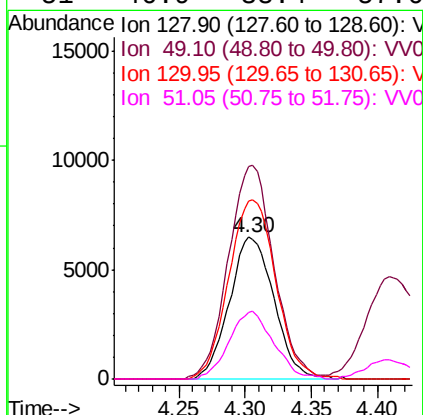
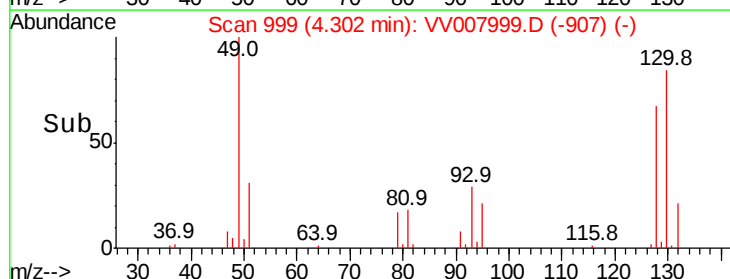
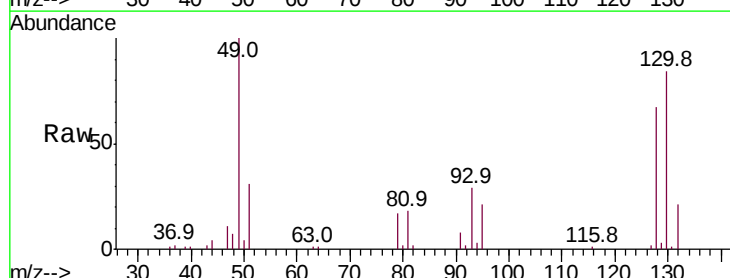
Tot Ion: 96 Resp: 34423
 Ion Ratio Lower Upper
 96 100
 61 128.0 89.5 166.1
 68 0.0 0.0 0.0

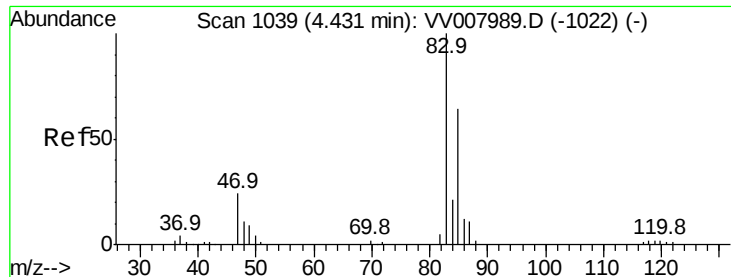


#23

Bromochloromethane
 Concen: 5.338 ug/L
 RT: 4.30 min Scan# 999
 Delta R.T. -0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Tgt Ion:128 Resp: 15200
 Ion Ratio Lower Upper
 128 100
 49 149.7 112.8 209.4
 130 125.3 92.3 171.5
 51 46.9 38.4 57.6

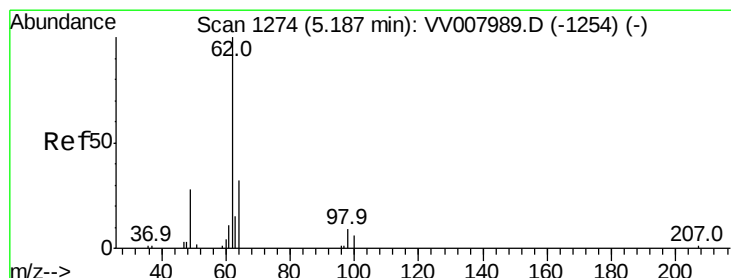
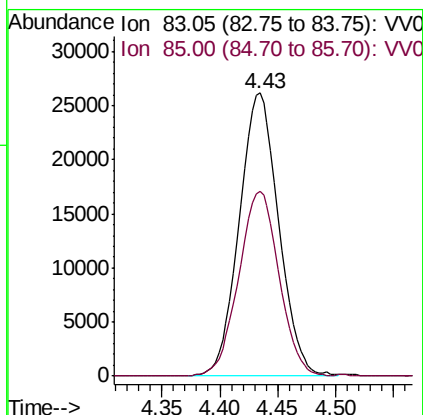
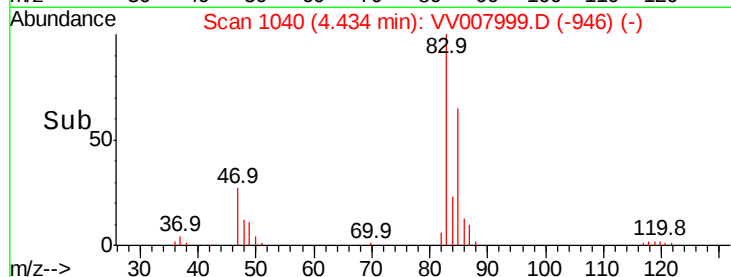
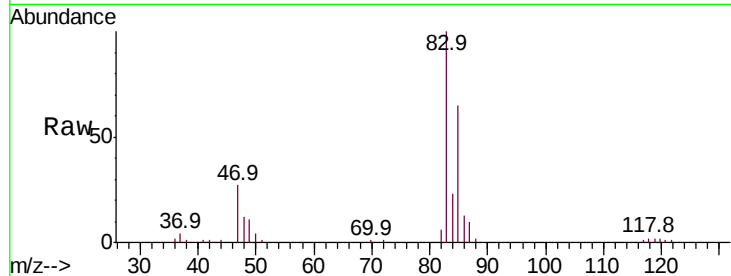




#25
Chloroform
Concen: 5.198 ug/L
RT: 4.43 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

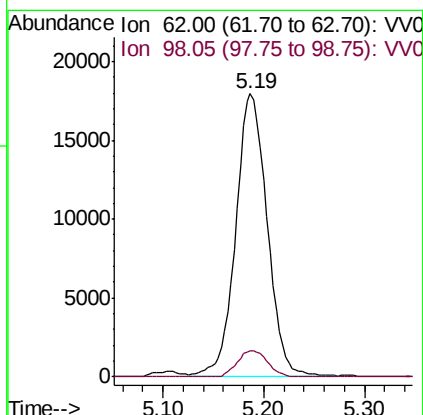
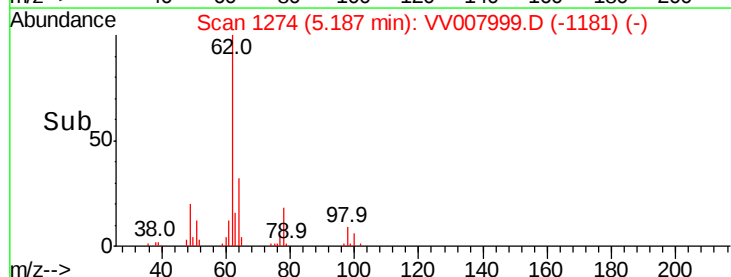
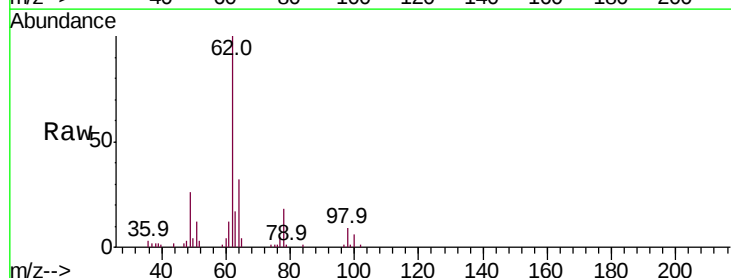
Instrument :
MSVOA_V
ClientSampleId :

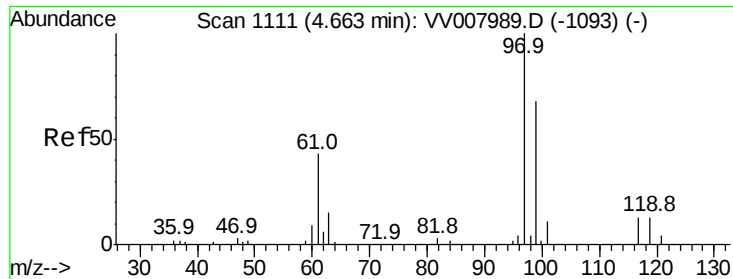
Tot Ion: 83 Resp: 62029
Ion Ratio Lower Upper
83 100
85 65.3 44.8 83.2



#27
1,2-Dichloroethane
Concen: 5.078 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Tgt Ion: 62 Resp: 39000
Ion Ratio Lower Upper
62 100
98 9.1 6.6 10.0

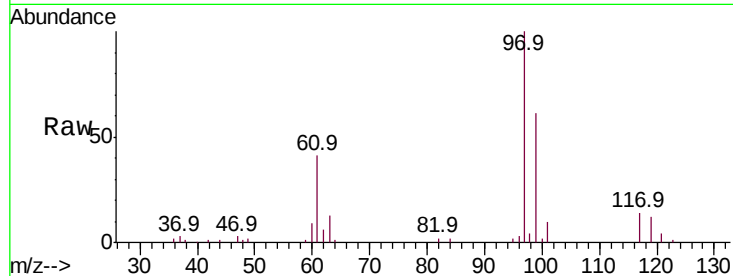




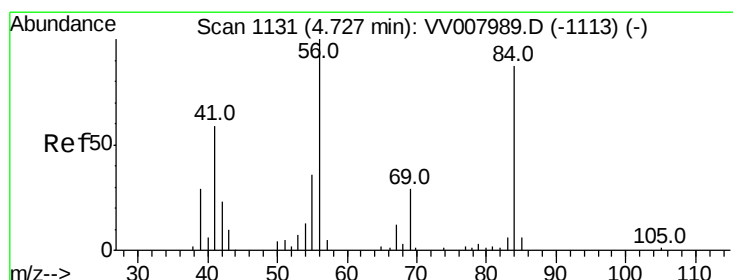
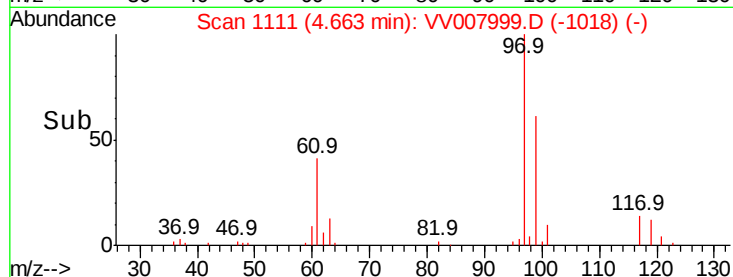
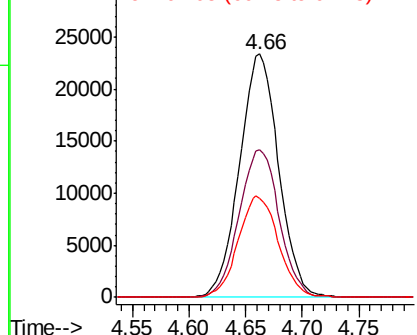
#29
1,1,1-Trichloroethane
Concen: 5.381 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 97 Resp: 56232
Ion Ratio Lower Upper
97 100
99 62.2 51.2 76.8
61 42.9 34.6 52.0

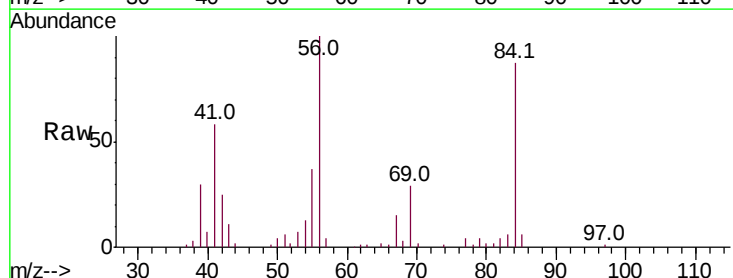


Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 61.05 (60.75 to 61.75): VV0

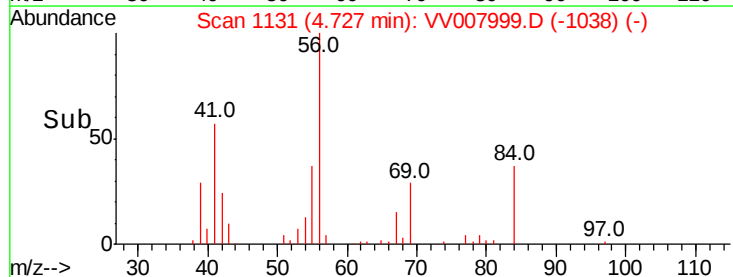
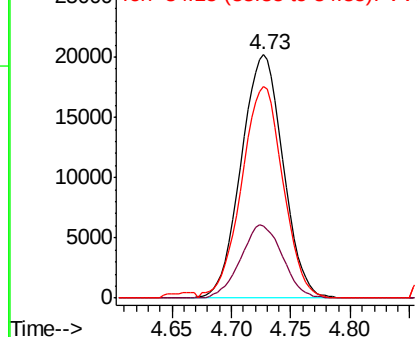


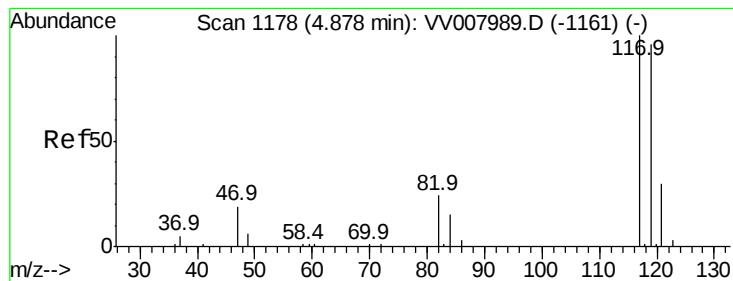
#30
Cyclohexane
Concen: 5.021 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Tgt Ion: 56 Resp: 49322
Ion Ratio Lower Upper
56 100
69 29.9 24.2 36.4
84 86.0 69.8 104.8



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: 5.345 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

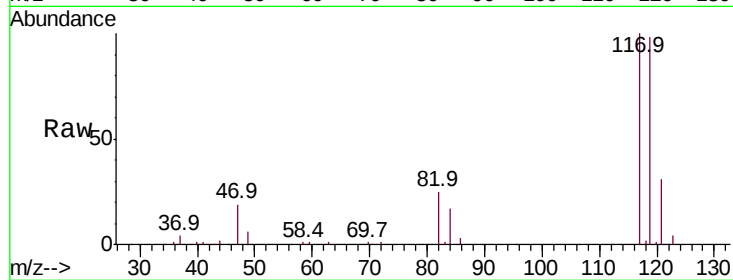
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 49239

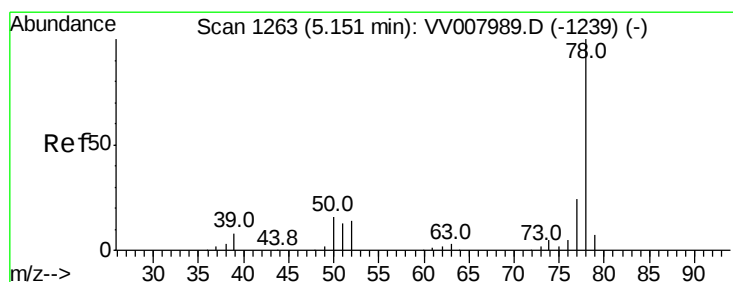
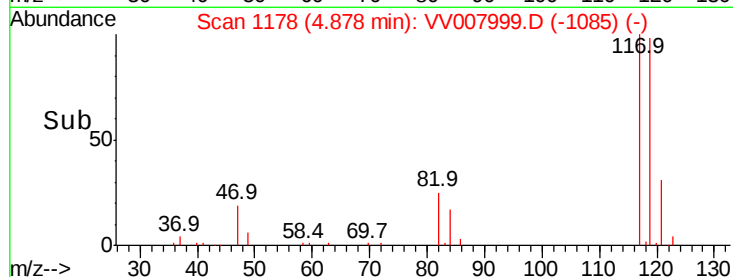
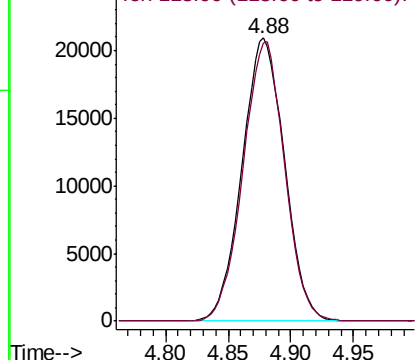
Ion Ratio Lower Upper

117 100

119 96.6 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.274 ug/L

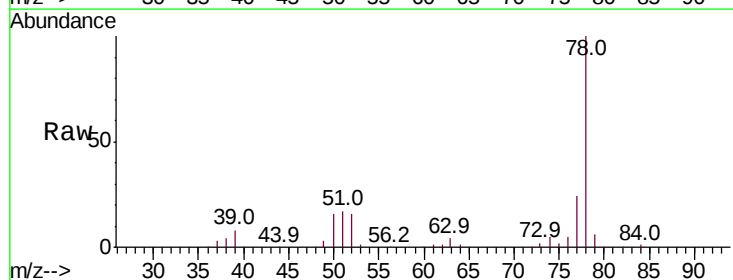
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

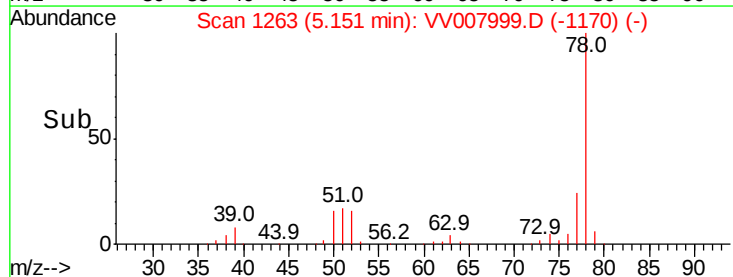
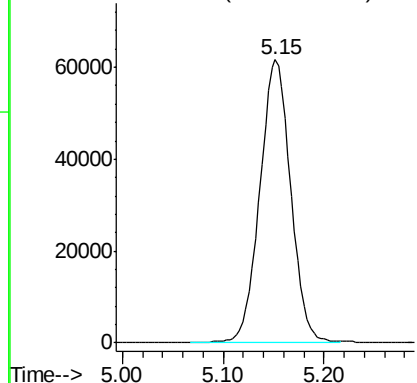
Lab File: VV007999.D

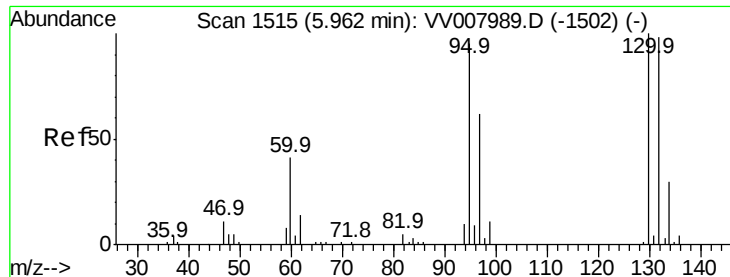
Acq: 01 Oct 2018 17:11

Tgt Ion: 78 Resp: 131234



Abundance Ion 78.10 (77.80 to 78.80): VV0

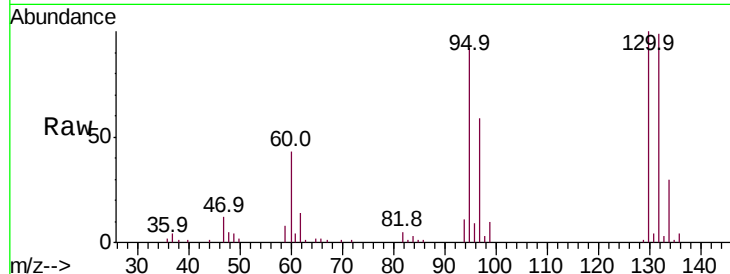




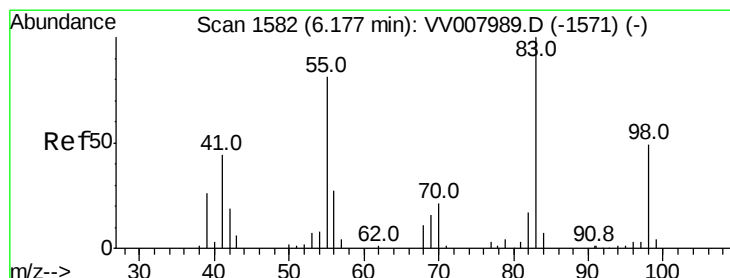
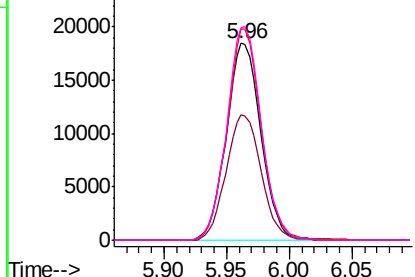
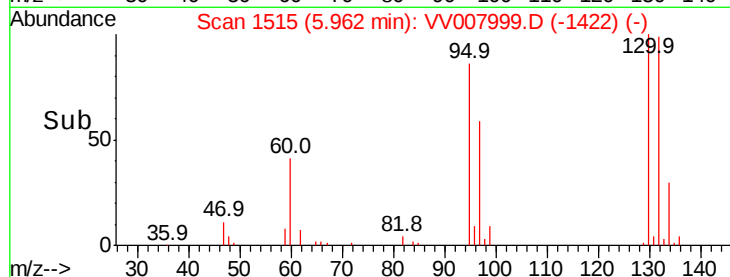
#34
 Trichloroethene
 Concen: 4.972 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 35424
 Ion Ratio Lower Upper
 95 100
 97 63.9 43.6 81.0
 132 107.3 69.9 129.9
 130 108.3 71.7 133.3

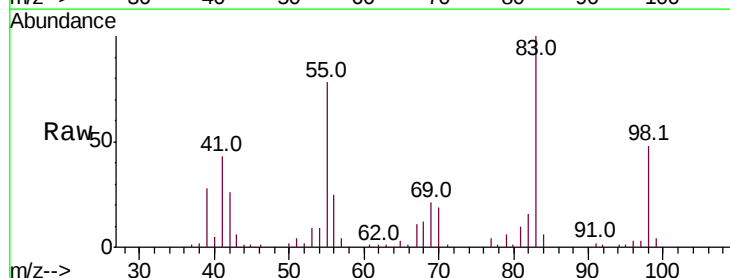


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

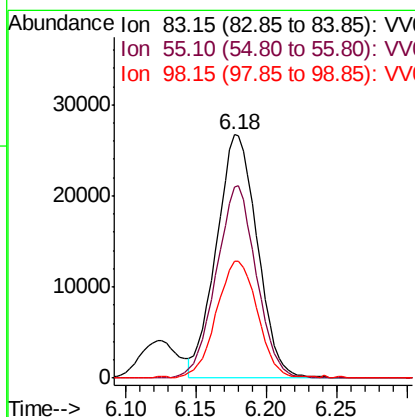
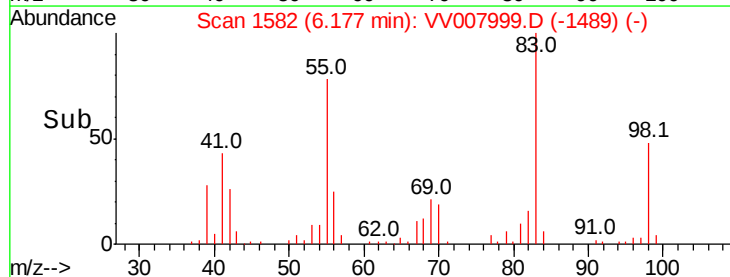


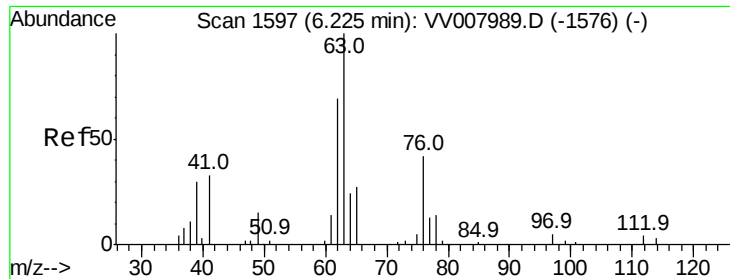
#35
 Methylcyclohexane
 Concen: 5.061 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Tgt Ion: 83 Resp: 54072
 Ion Ratio Lower Upper
 83 100
 55 77.4 62.2 93.2
 98 48.3 38.0 57.0



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: 5.271 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :

MSVOA_V

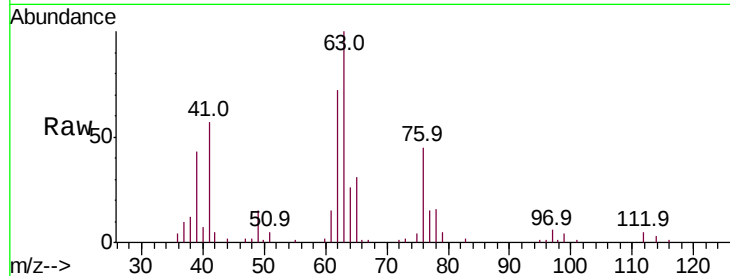
ClientSampleId :

Tot Ion: 63 Resp: 33511

Ion Ratio Lower Upper

63 100

112 4.6 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VV007989.D (-1576) (-)

Ion 112.10 (111.80 to 112.80): VV007989.D (-1576) (-)

20000

15000

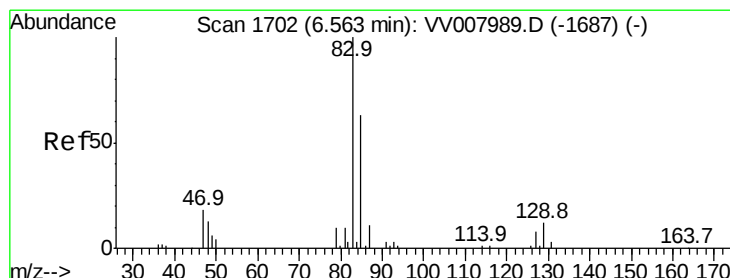
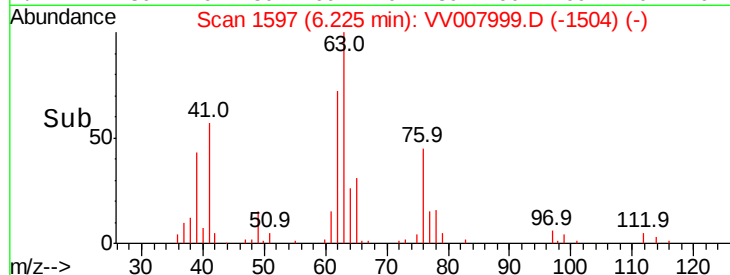
10000

5000

0

6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 5.299 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

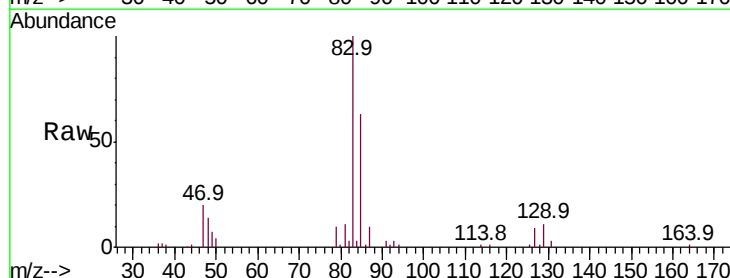
Tgt Ion: 83 Resp: 40283

Ion Ratio Lower Upper

83 100

85 63.1 44.7 82.9

127 8.7 7.8 11.6



Abundance Ion 82.95 (82.65 to 83.65): VV007989.D (-1687) (-)

Ion 85.00 (84.70 to 85.70): VV007989.D (-1687) (-)

Ion 126.90 (126.60 to 127.60): VV007989.D (-1687) (-)

30000

25000

20000

15000

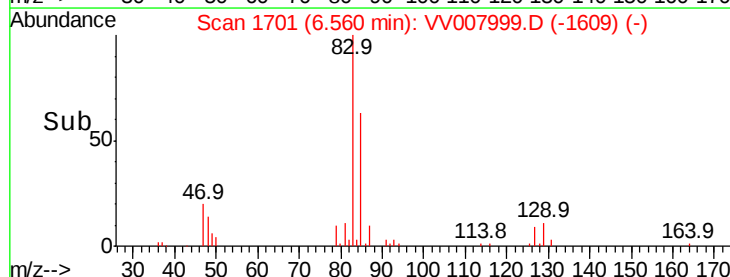
10000

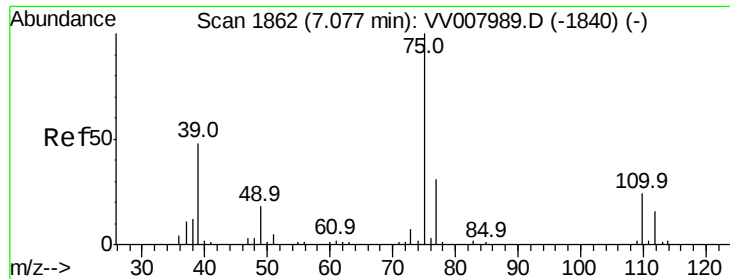
5000

0

6.50 6.55 6.60

Time-->

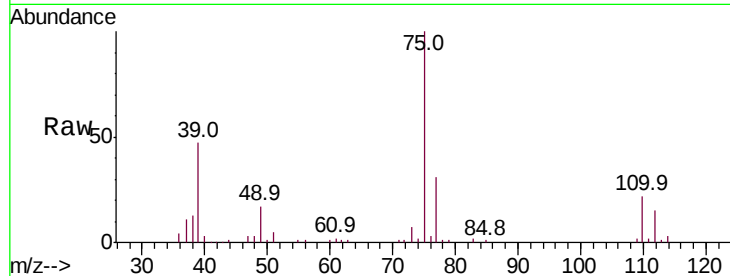




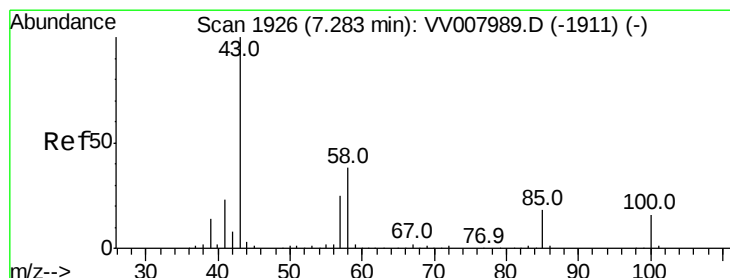
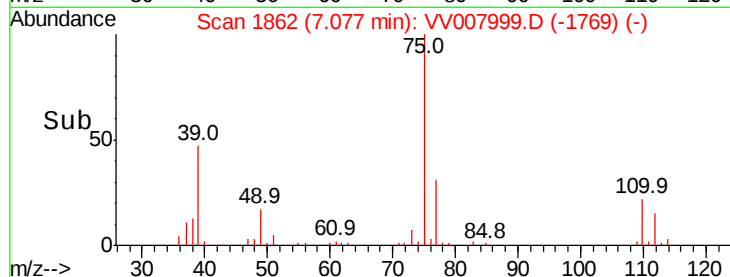
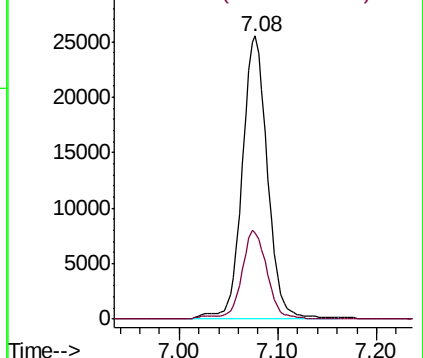
#39
 cis-1,3-Dichloropropene
 Concen: 5.322 ug/L
 RT: 7.08 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 75 Resp: 45262
 Ion Ratio Lower Upper
 75 100
 77 30.7 22.9 42.5

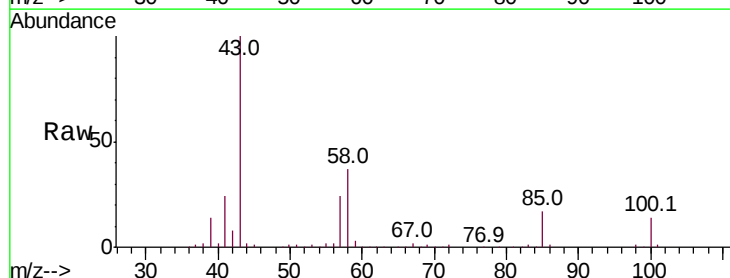


Abundance Ion 75.05 (74.75 to 75.75): VV007989.D (-1840) (-)
 Ion 77.05 (76.75 to 77.75): VV007989.D (-1840) (-)

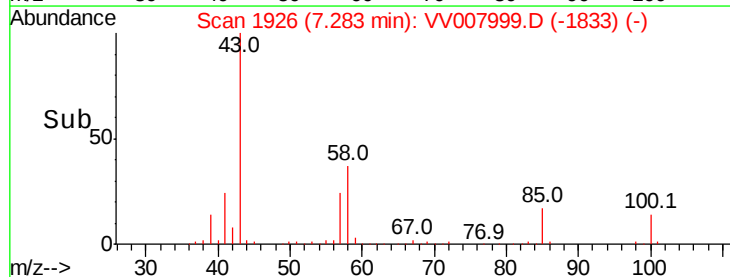
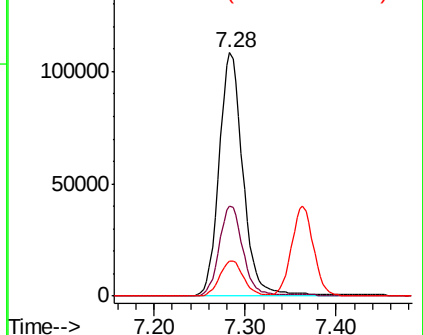


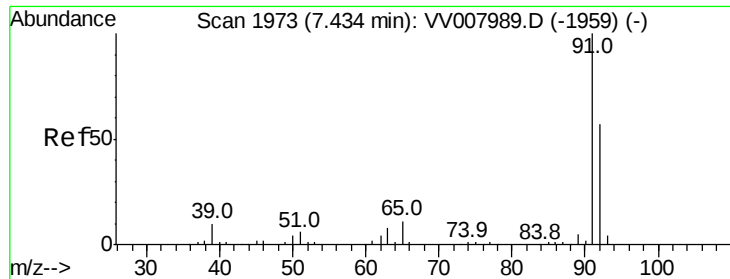
#40
 4-Methyl-2-pentanone
 Concen: 49.689 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Tgt Ion: 43 Resp: 198264
 Ion Ratio Lower Upper
 43 100
 58 36.8 29.4 44.0
 100 14.4 11.5 17.3



Abundance Ion 43.05 (42.75 to 43.75): VV007989.D (-1911) (-)
 Ion 58.05 (57.75 to 58.75): VV007989.D (-1911) (-)
 Ion 100.15 (99.85 to 100.85): VV007989.D (-1911) (-)





#42

Toluene

Concen: 5.352 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

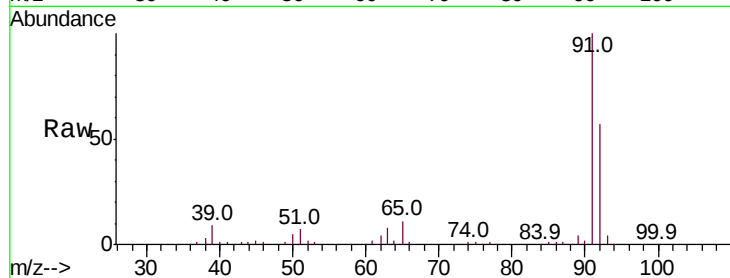
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 145040

Ion Ratio Lower Upper

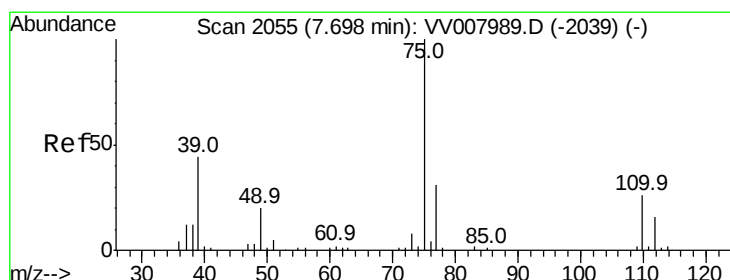
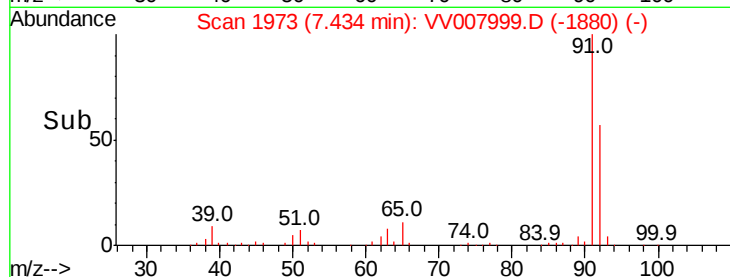
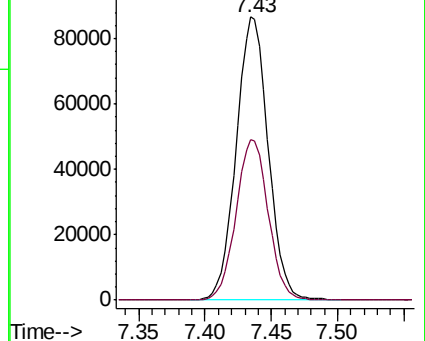
91 100

92 56.8 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV007989.D (-1959) (-)

Ion 92.15 (91.85 to 92.85): VV007989.D (-1959) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.171 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV007999.D

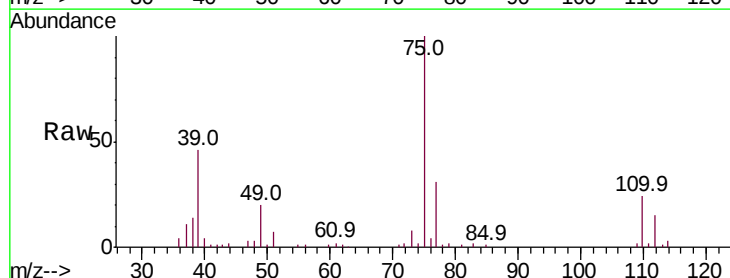
Acq: 01 Oct 2018 17:11

Tgt Ion: 75 Resp: 36552

Ion Ratio Lower Upper

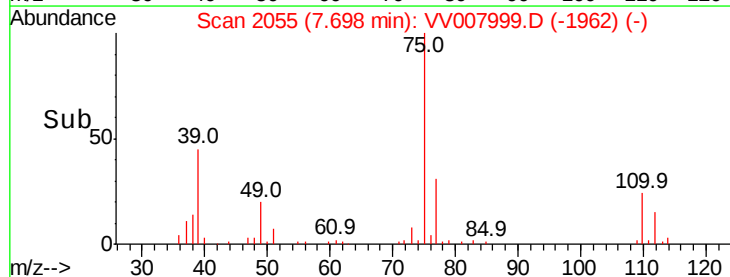
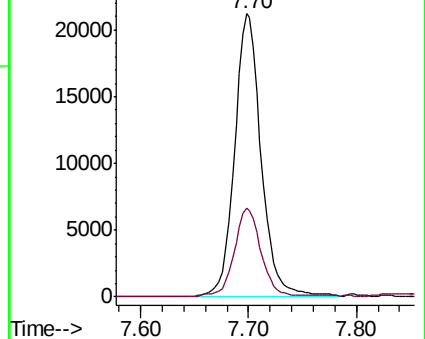
75 100

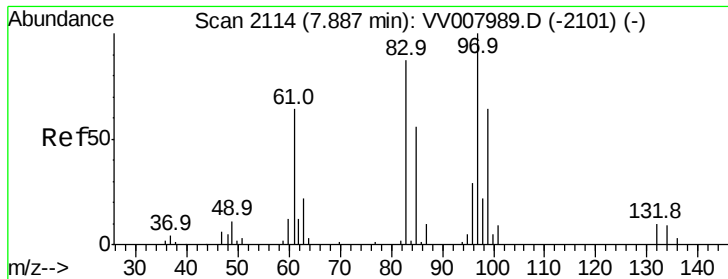
77 31.3 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV007989.D (-2039) (-)

Ion 77.05 (76.75 to 77.75): VV007989.D (-2039) (-)





#45

1,1,2-Trichloroethane

Concen: 5.067 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 23245

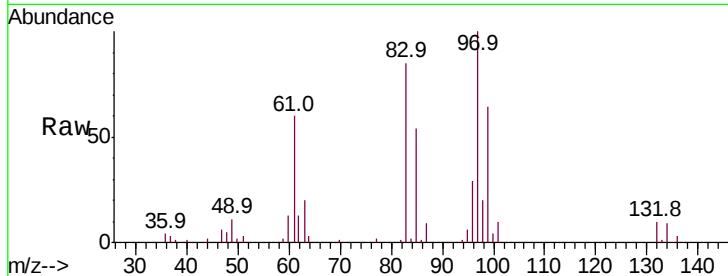
Ion Ratio Lower Upper

97 100

99 64.1 43.5 80.9

83 84.9 59.7 110.9

85 53.7 39.5 73.3

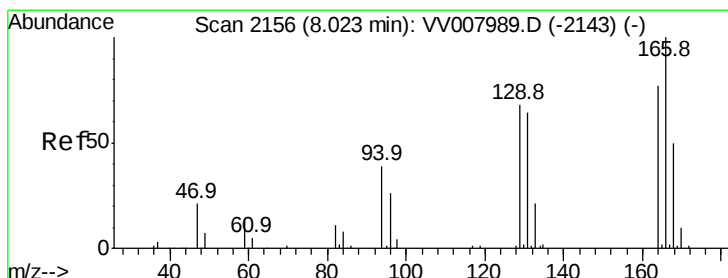
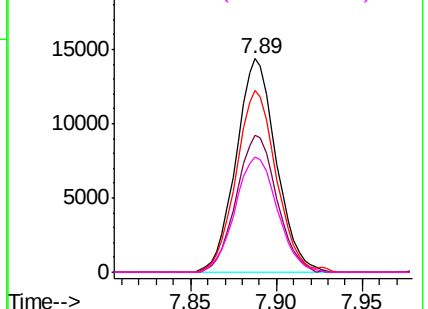
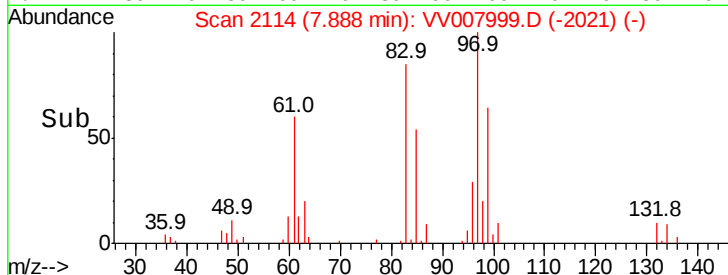


Abundance Ion 96.95 (96.65 to 97.65): VV007989.D (-2101) (-)

Ion 99.05 (98.75 to 99.75): VV007989.D (-2101) (-)

Ion 82.95 (82.65 to 83.65): VV007989.D (-2101) (-)

Ion 85.00 (84.70 to 85.70): VV007989.D (-2101) (-)



#47

Tetrachloroethene

Concen: 5.156 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Tgt Ion: 164 Resp: 34044

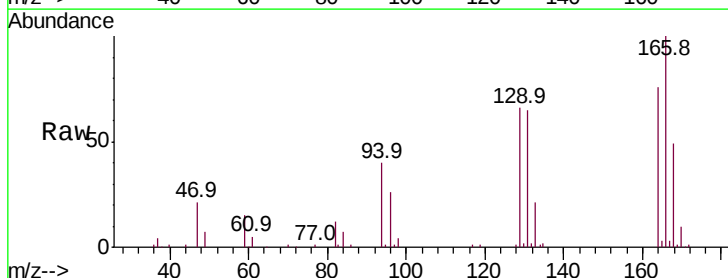
Ion Ratio Lower Upper

164 100

129 85.8 59.2 110.0

131 84.6 57.1 106.1

166 130.7 88.6 164.6

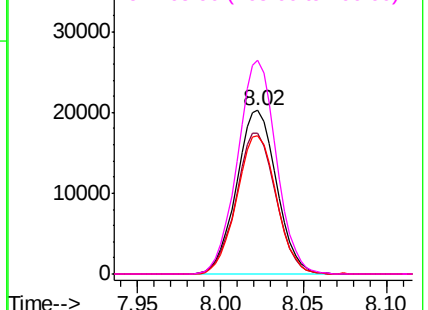
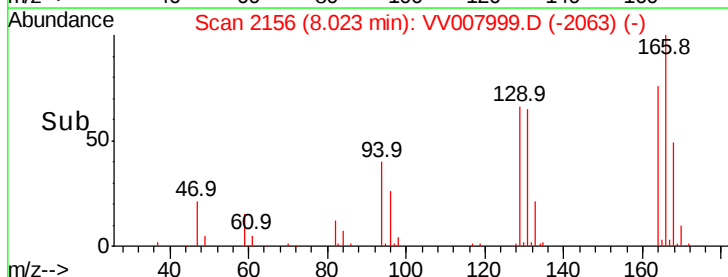


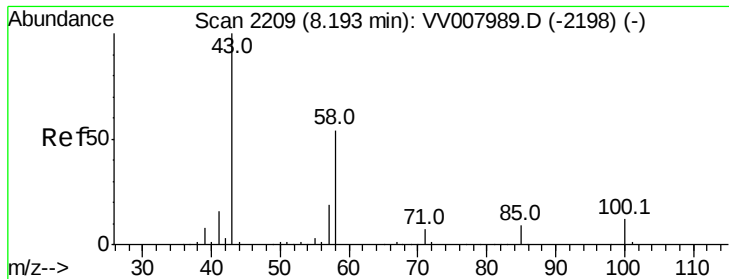
Abundance Ion 163.90 (163.60 to 164.60): VV007989.D (-2143) (-)

Ion 128.95 (128.65 to 129.65): VV007989.D (-2143) (-)

Ion 130.95 (130.65 to 131.65): VV007989.D (-2143) (-)

Ion 165.90 (165.60 to 166.60): VV007989.D (-2143) (-)

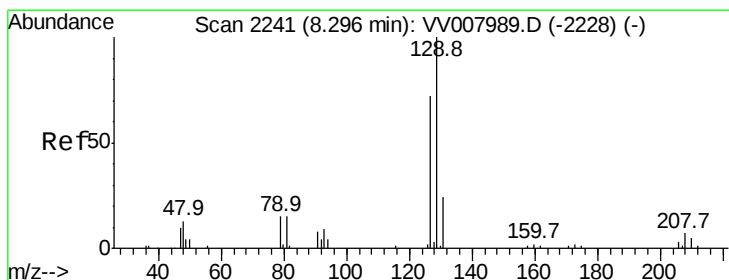
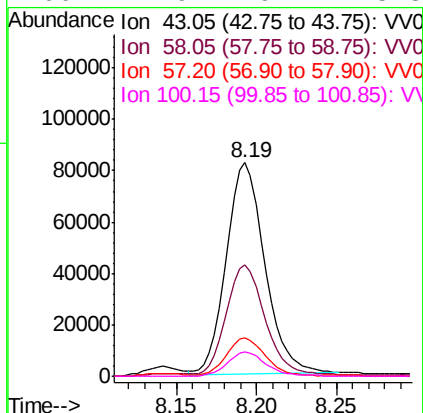
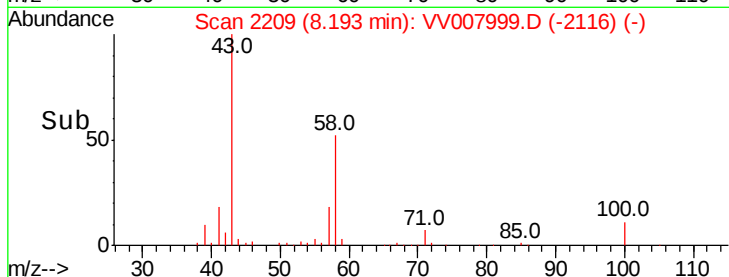
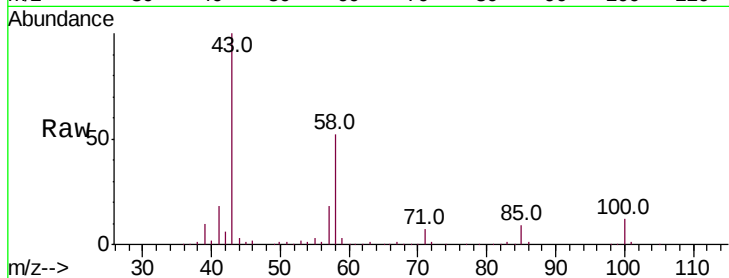




#48
2-Hexanone
Concen: 48.540 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

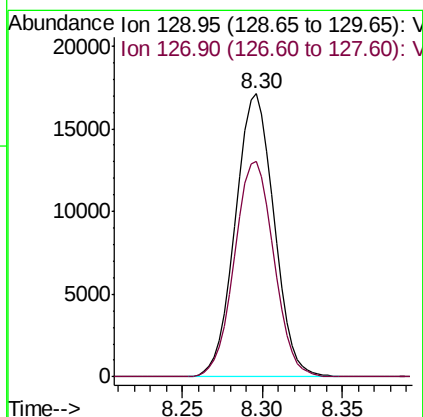
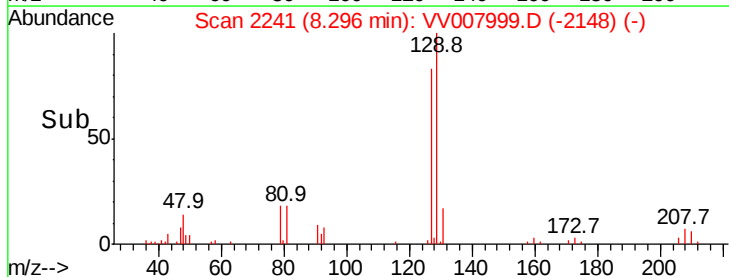
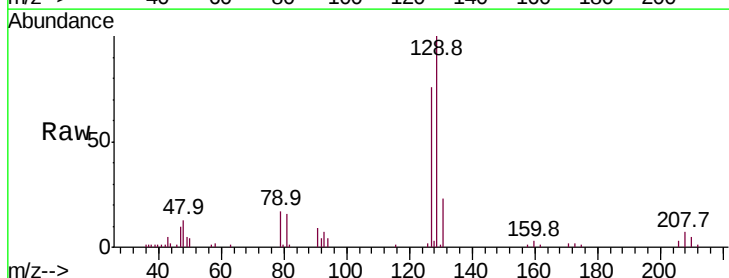
Instrument :
MSVOA_V
ClientSampled :

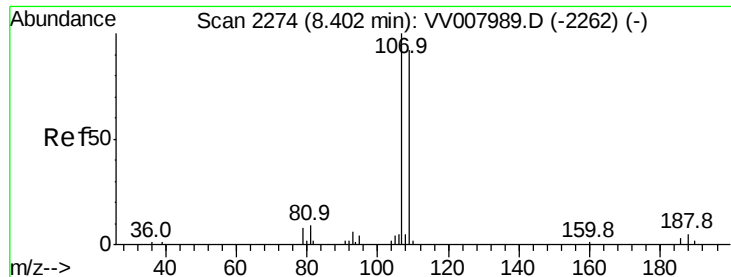
Tot Ion: 43 Resp: 134705
Ion Ratio Lower Upper
43 100
58 54.1 41.9 62.9
57 18.6 14.3 21.5
100 11.9 9.2 13.8



#49
Dibromochloromethane
Concen: 5.391 ug/L
RT: 8.30 min Scan# 2241
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Tgt Ion: 129 Resp: 28232
Ion Ratio Lower Upper
129 100
127 76.0 53.1 98.5

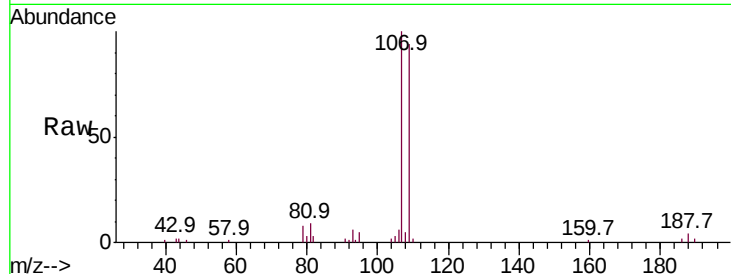




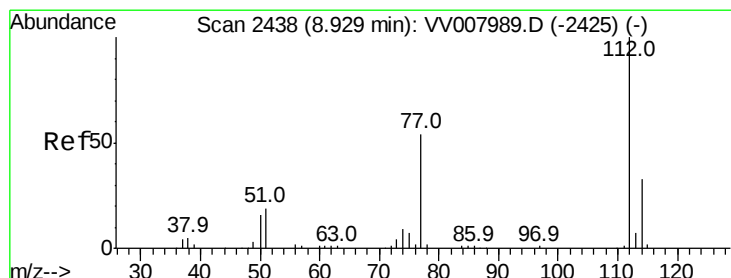
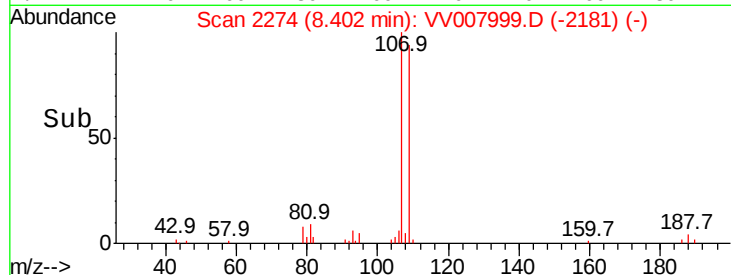
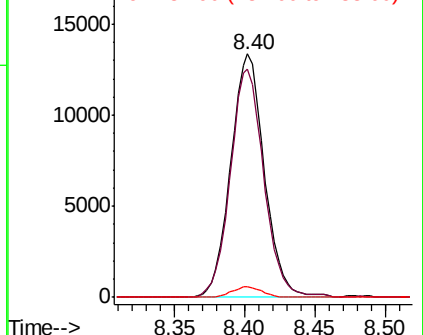
#50
1,2-Dibromoethane
Concen: 5.325 ug/L
RT: 8.40 min Scan# 2274
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	64.9	120.5
188	4.4	4.0	6.0

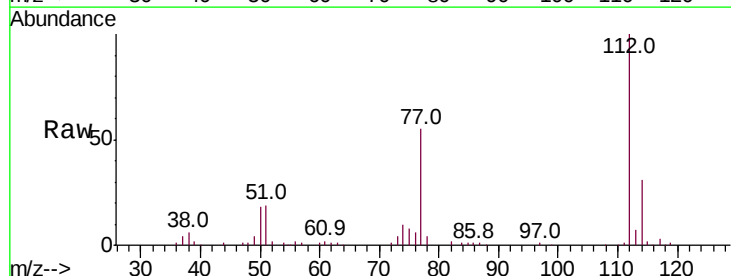


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

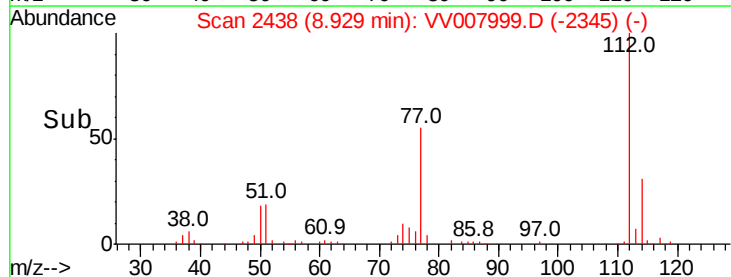
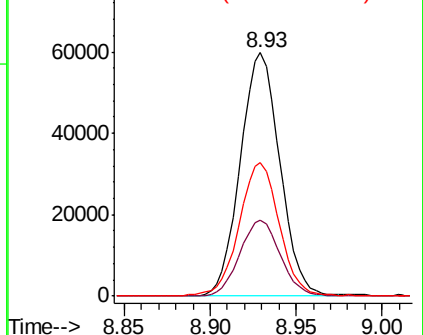


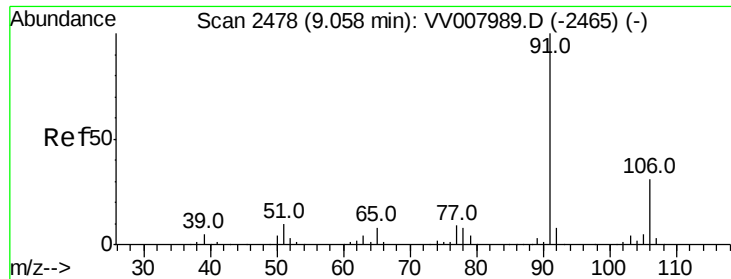
#51
Chlorobenzene
Concen: 5.101 ug/L
RT: 8.93 min Scan# 2438
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	22.4	41.6
77	54.6	45.0	67.6



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

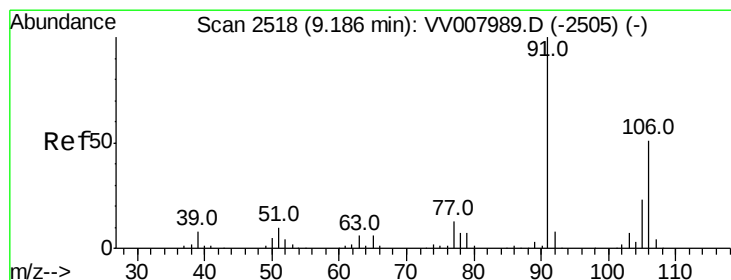
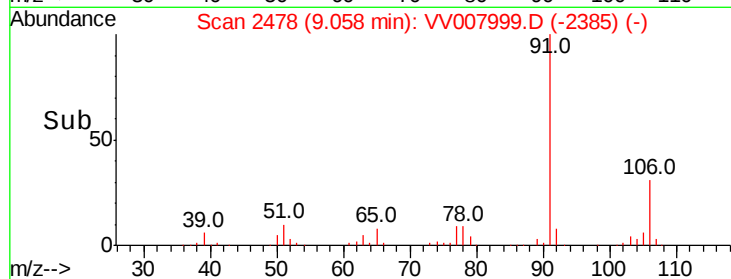
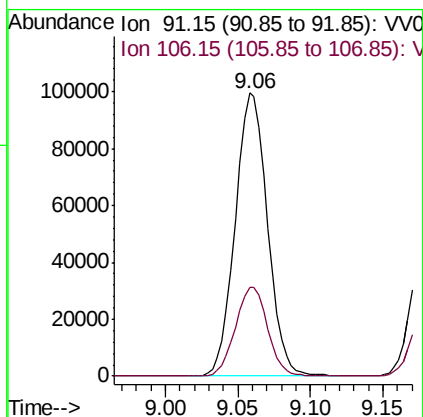
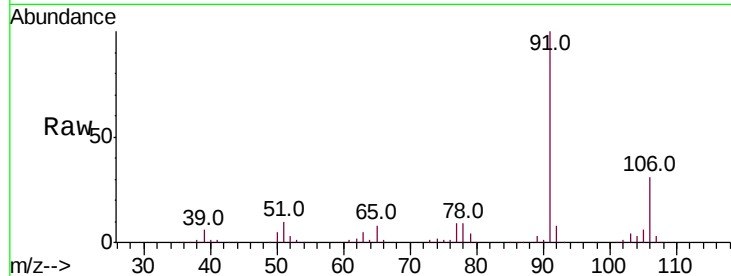




#52
Ethylbenzene
Concen: 5.095 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

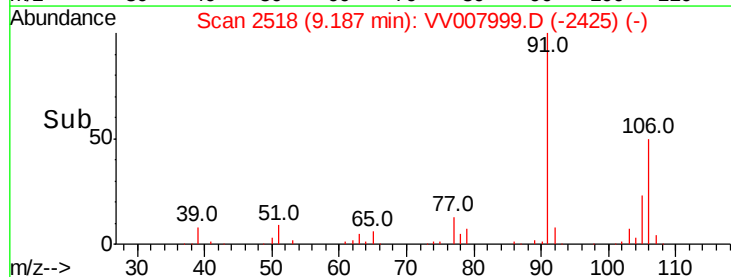
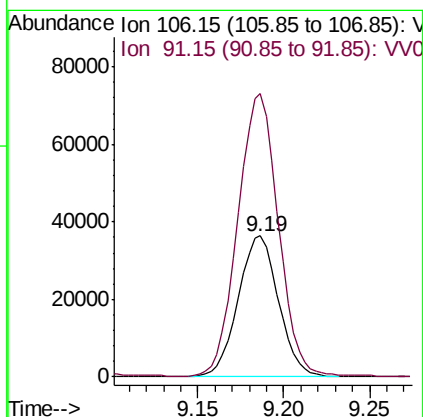
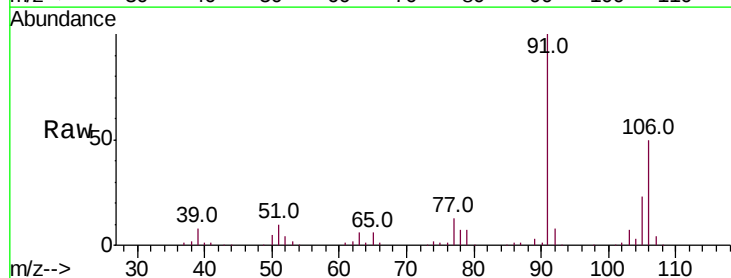
Instrument :
MSVOA_V
ClientSampled :

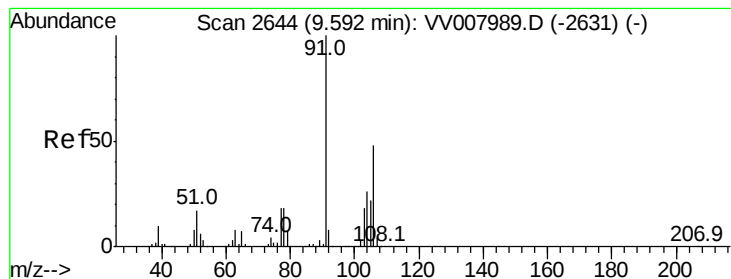
Tot Ion: 91 Resp: 154028
Ion Ratio Lower Upper
91 100
106 31.2 21.7 40.3



#53
m,p-xylene
Concen: 5.155 ug/L
RT: 9.19 min Scan# 2518
Delta R.T. 0.00 min
Lab File: VV007999.D
Acq: 01 Oct 2018 17:11

Tgt Ion: 106 Resp: 59349
Ion Ratio Lower Upper
106 100
91 200.7 139.4 258.8





#54

o-xylene

Concen: 5.110 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :

MSVOA_V

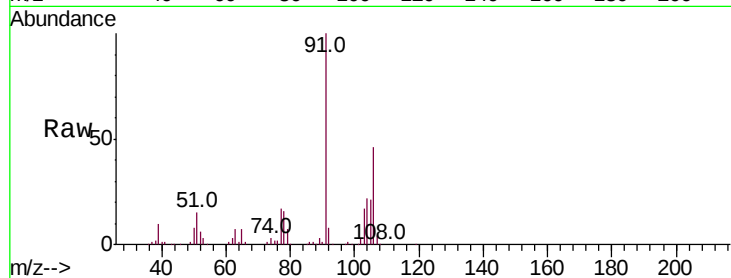
ClientSampled :

Tot Ion:106 Resp: 56818

Ion Ratio Lower Upper

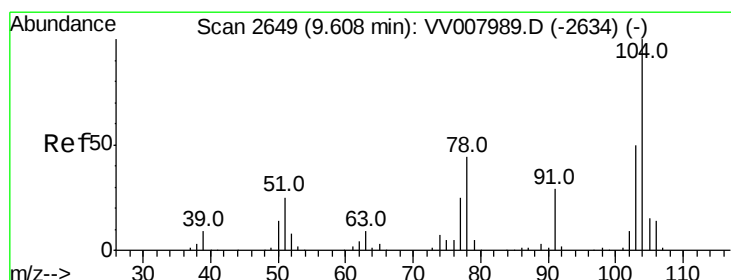
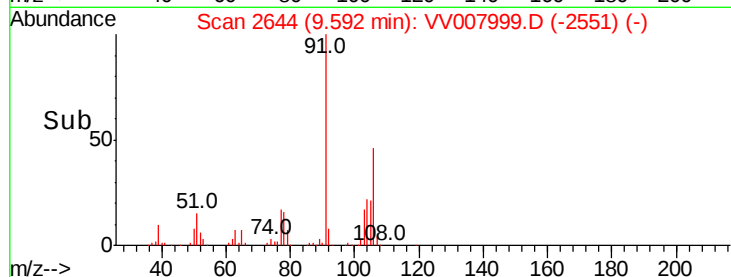
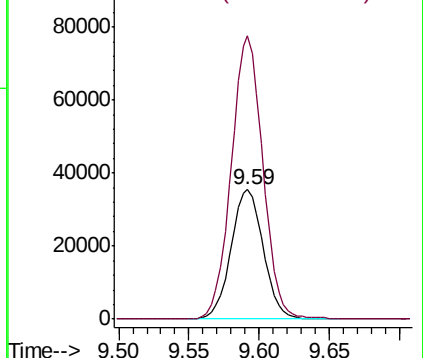
106 100

91 218.3 150.1 278.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.220 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV007999.D

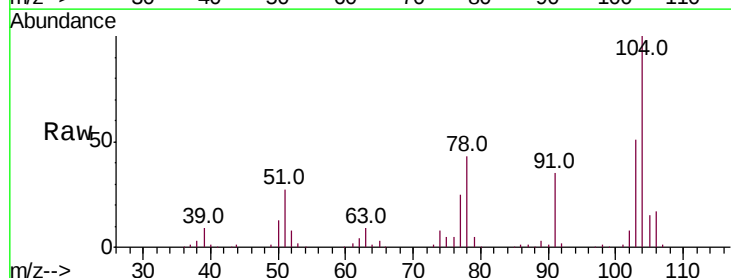
Acq: 01 Oct 2018 17:11

Tgt Ion:104 Resp: 99128

Ion Ratio Lower Upper

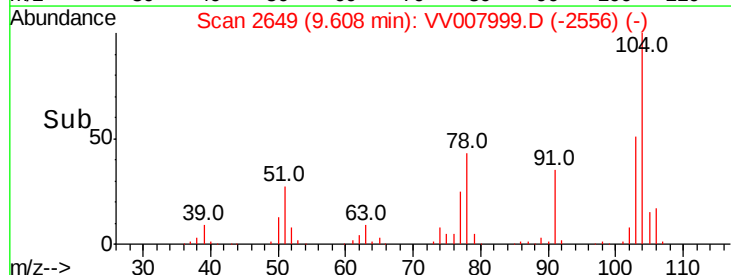
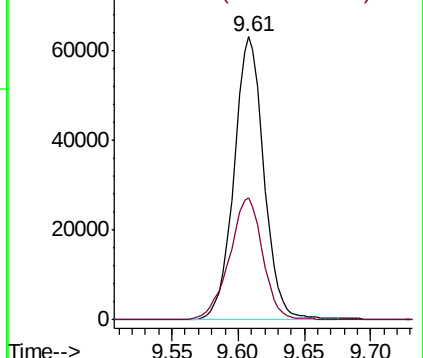
104 100

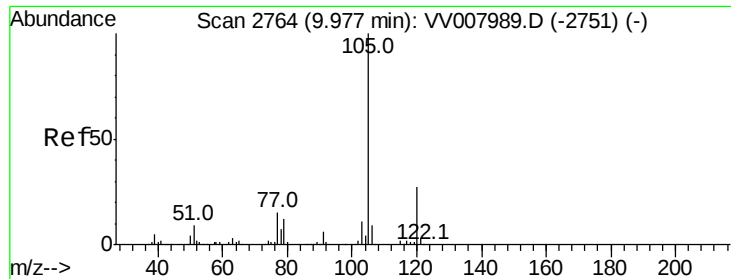
78 42.9 30.4 56.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.214 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :

MSVOA_V

ClientSampled :

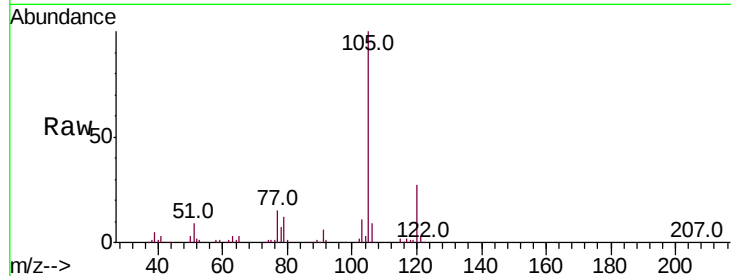
Tot Ion:105 Resp: 157012

Ion Ratio Lower Upper

105 100

120 27.0 21.4 32.0

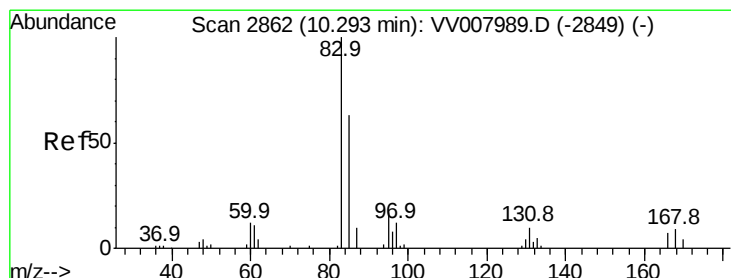
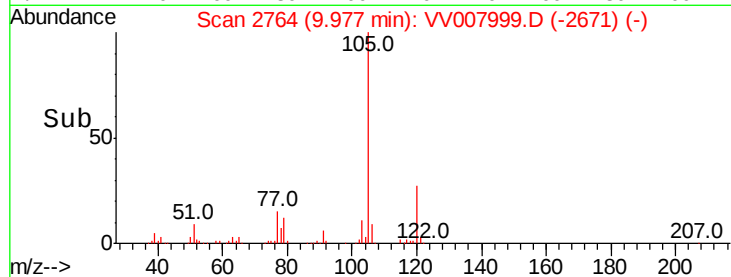
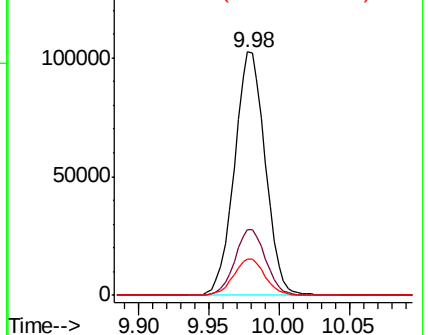
77 15.3 12.7 19.1



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: 5.090 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

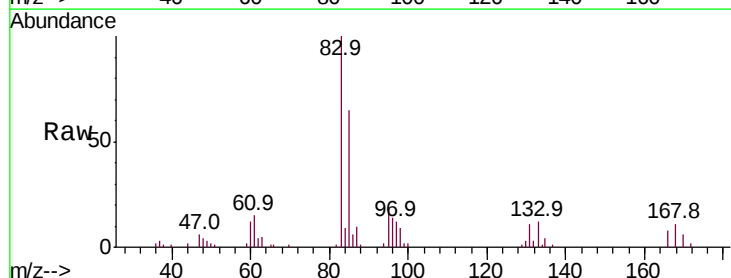
Tgt Ion: 83 Resp: 27426

Ion Ratio Lower Upper

83 100

85 65.1 43.7 81.1

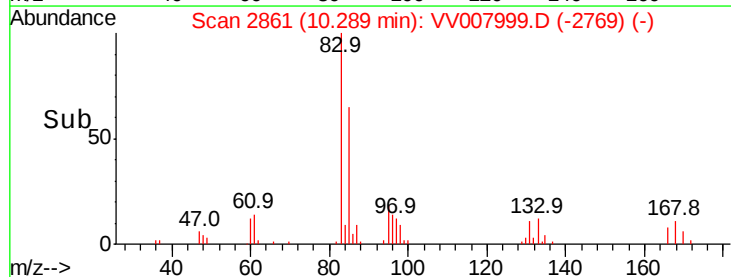
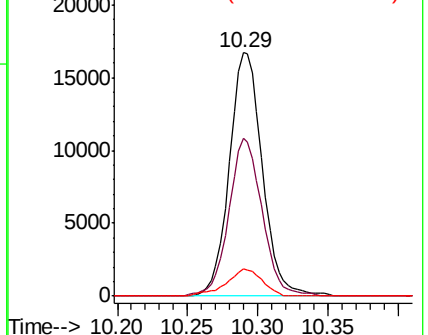
131 11.0 9.0 13.4

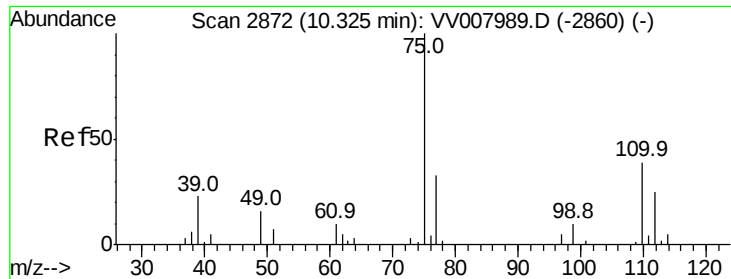


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

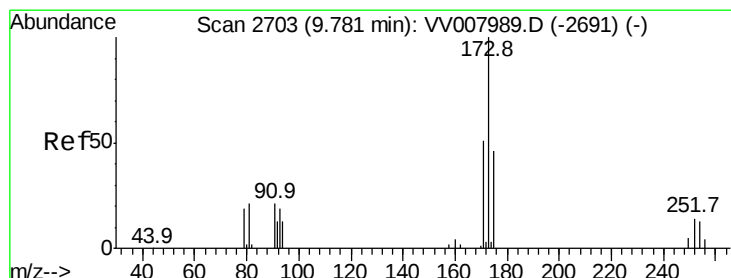
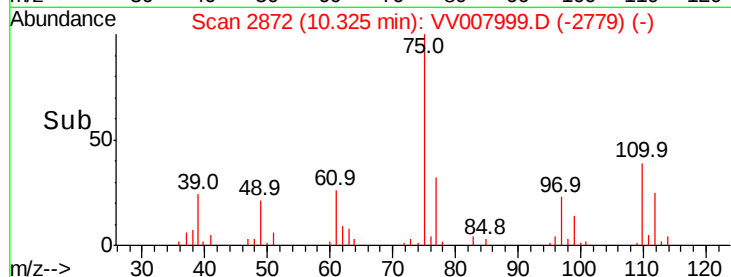
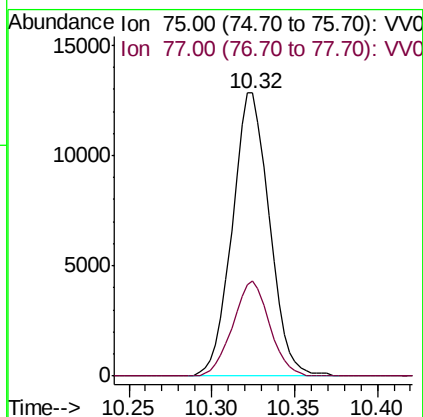
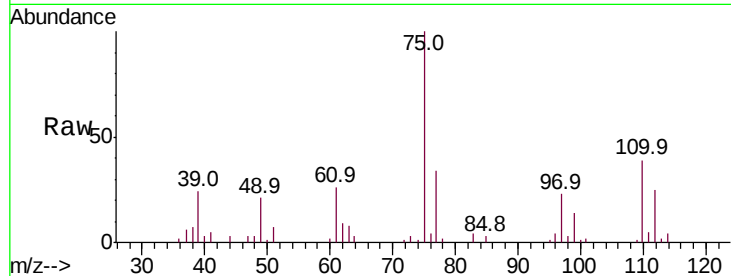




#59
 1,2,3-Trichloropropane
 Concen: 5.067 ug/L
 RT: 10.32 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

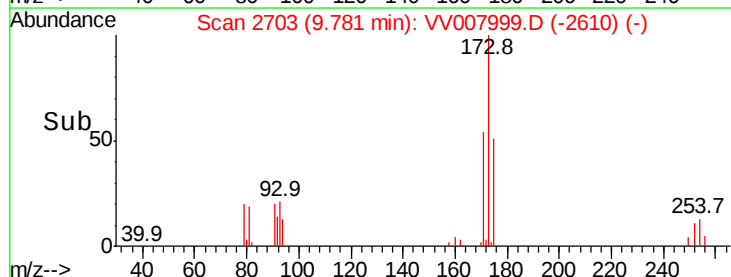
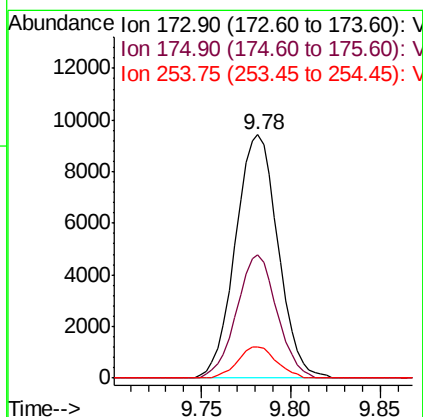
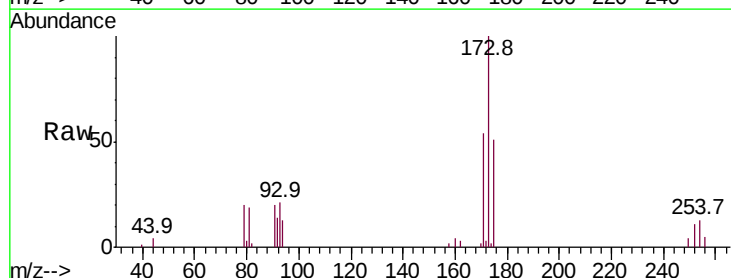
Instrument :
 MSVOA_V
 ClientSampled :

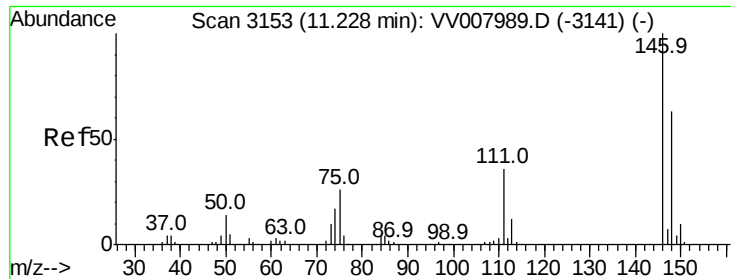
Tot Ion: 75 Resp: 20042
 Ion Ratio Lower Upper
 75 100
 77 33.1 26.4 39.6



#61
 Bromoform
 Concen: 5.601 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Tgt Ion:173 Resp: 15714
 Ion Ratio Lower Upper
 173 100
 175 47.9 41.0 61.6
 254 11.7 9.6 14.4





#62

1,3-Dichlorobenzene

Concen: 5.148 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

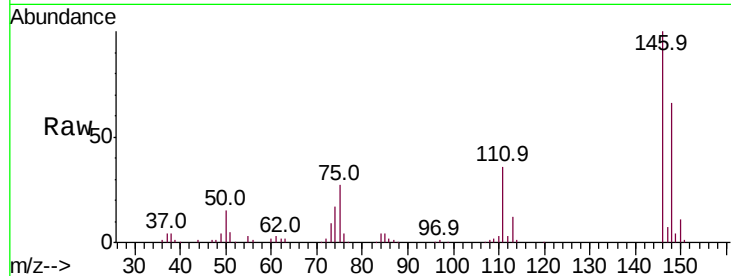
Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:146 Resp: 79395

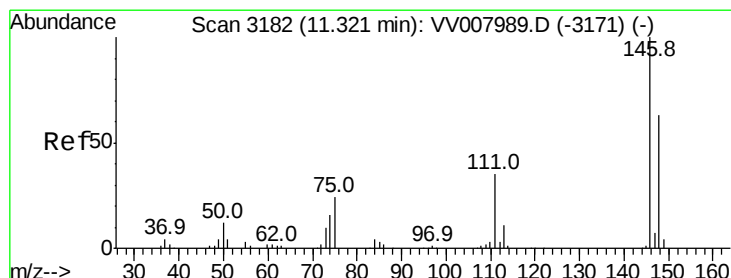
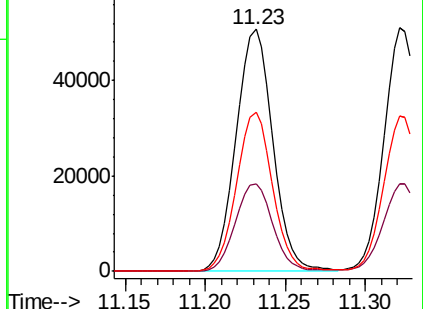
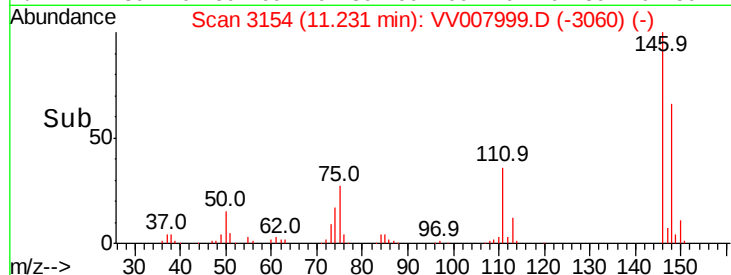
Ion	Ratio	Lower	Upper
146	100		
111	36.1	25.8	48.0
148	66.0	44.7	82.9



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



#63

1,4-Dichlorobenzene

Concen: 5.051 ug/L

RT: 11.32 min Scan# 3182

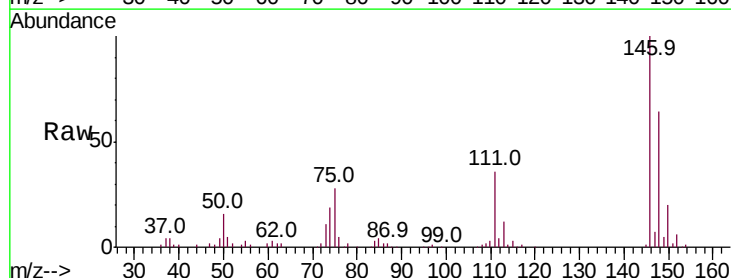
Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Tgt Ion:146 Resp: 80984

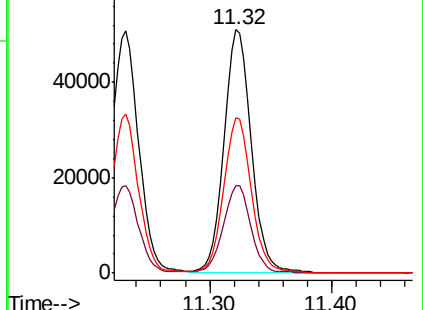
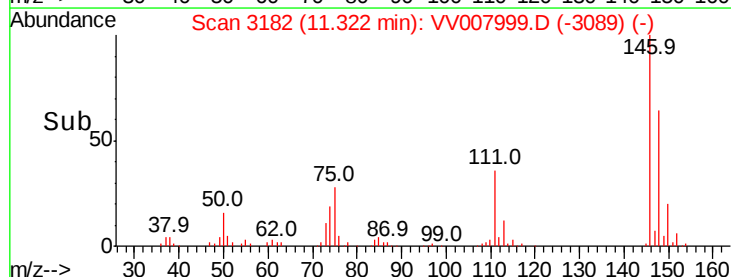
Ion	Ratio	Lower	Upper
146	100		
111	35.7	25.3	47.1
148	64.0	44.7	82.9

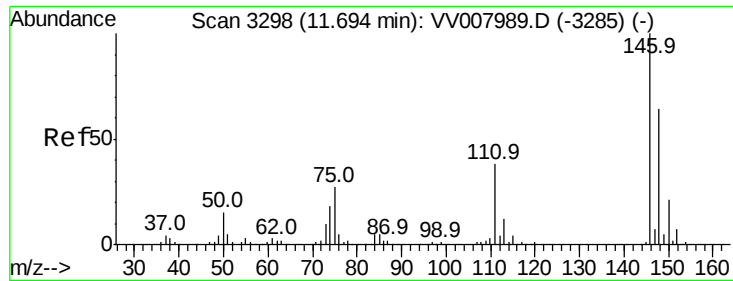


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.203 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :

MSVOA_V

ClientSampleId :

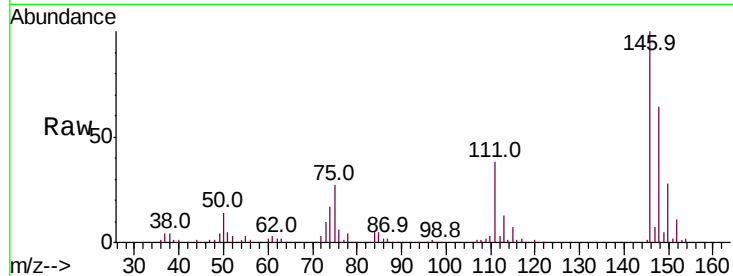
Tot Ion:146 Resp: 75643

Ion Ratio Lower Upper

146 100

111 37.7 31.2 46.8

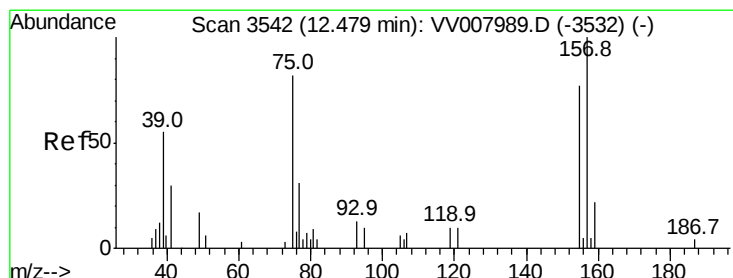
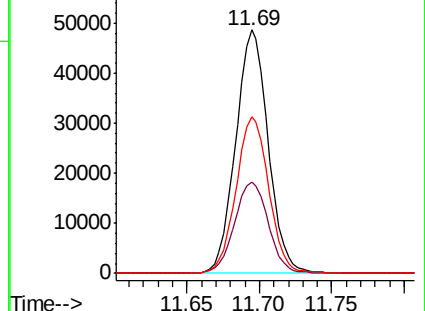
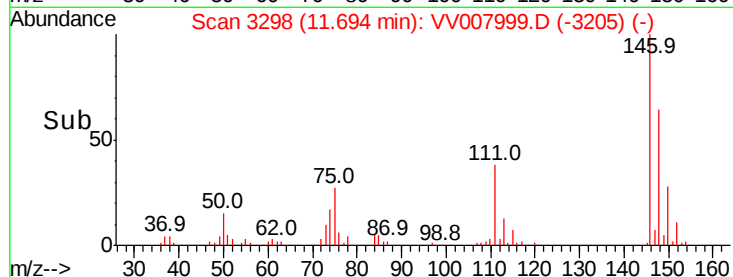
148 64.1 50.3 75.5



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: 5.118 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

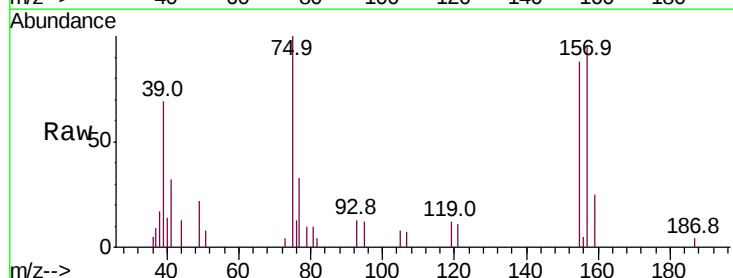
Tgt Ion: 75 Resp: 3790

Ion Ratio Lower Upper

75 100

155 87.9 83.4 125.2

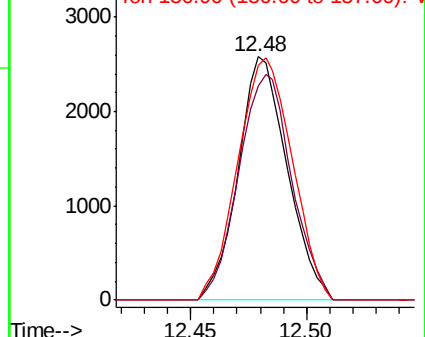
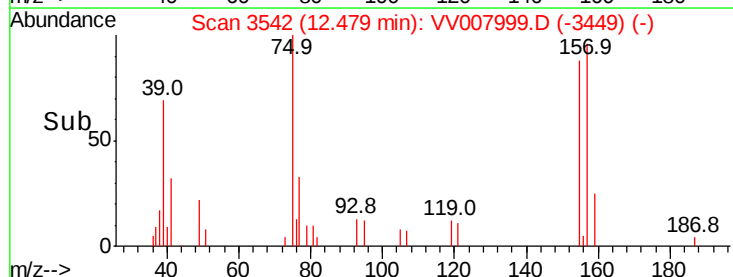
157 96.2 93.9 140.9

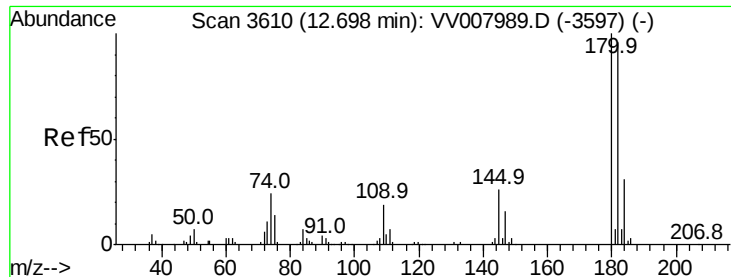


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

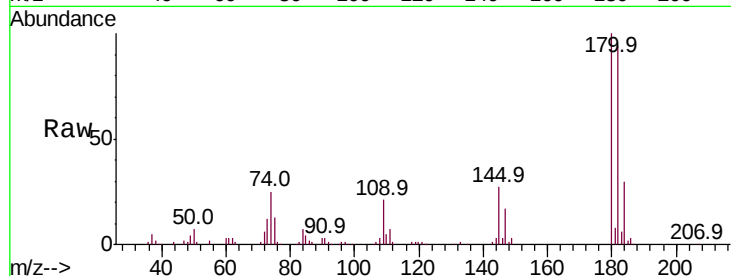




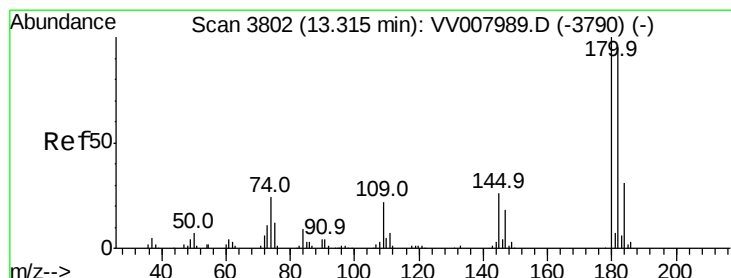
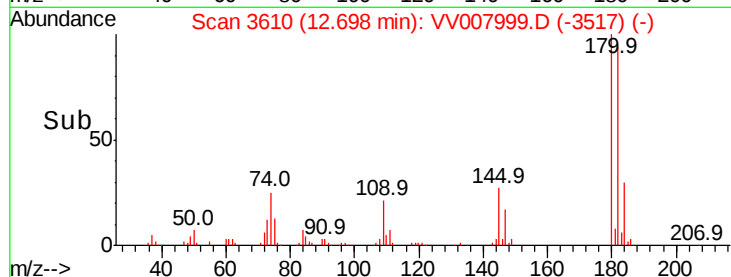
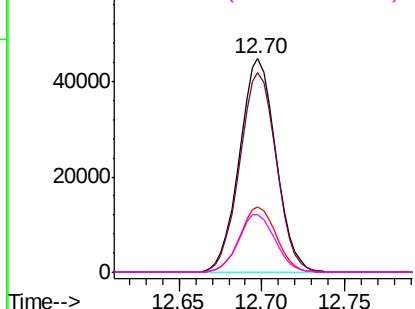
#67
 1,3,5-Trichlorobenzene
 Concen: 5.186 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180 Resp: 68484
 Ion Ratio Lower Upper
 180 100
 182 94.2 76.2 114.4
 184 30.4 24.5 36.7
 145 27.4 22.2 33.4

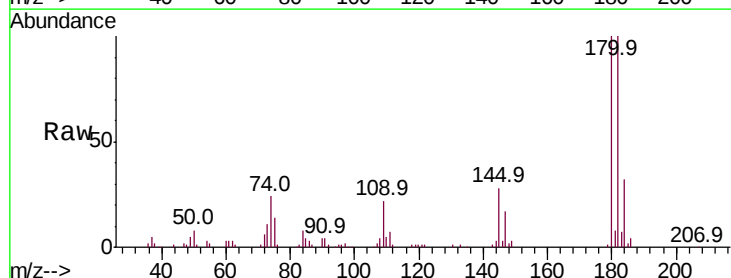


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

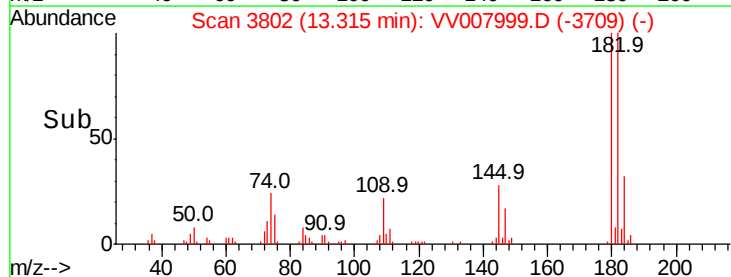
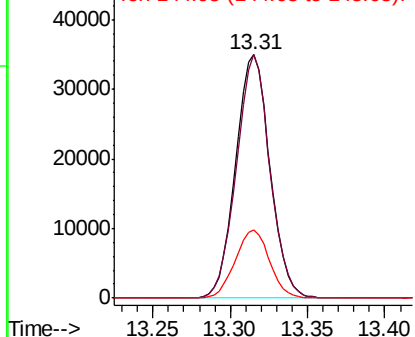


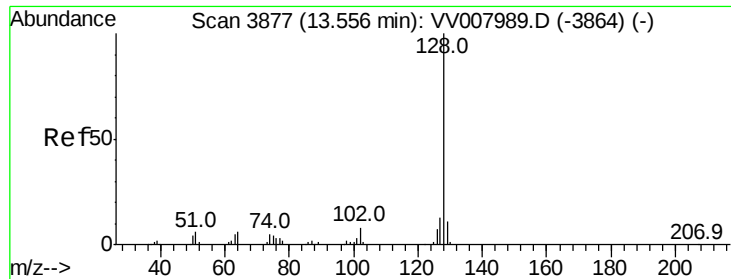
#68
 1,2,4-trichlorobenzene
 Concen: 4.820 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV007999.D
 Acq: 01 Oct 2018 17:11

Tgt Ion:180 Resp: 53793
 Ion Ratio Lower Upper
 180 100
 182 97.4 77.4 116.2
 145 27.8 22.6 33.8



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: 4.485 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

Instrument :

MSVOA_V

ClientSampleId :

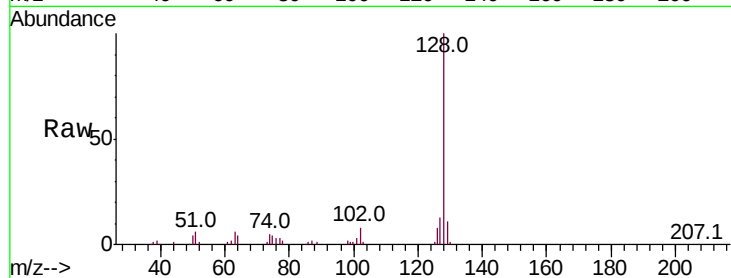
Tot Ion:128 Resp: 70020

Ion Ratio Lower Upper

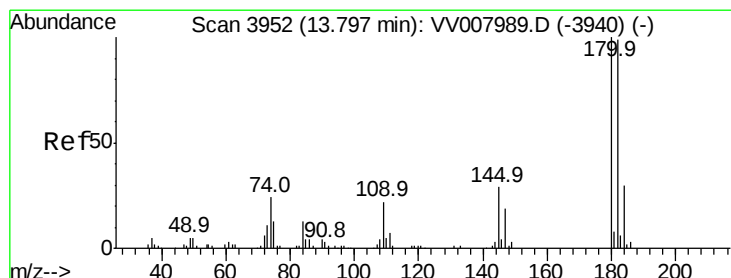
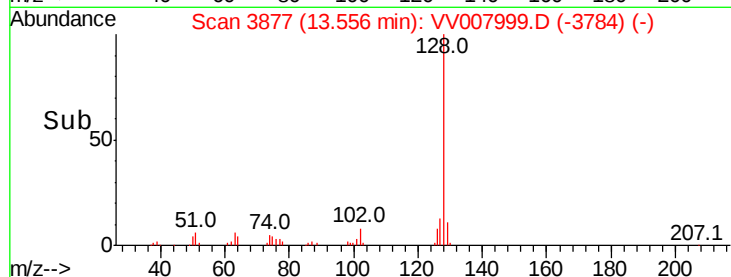
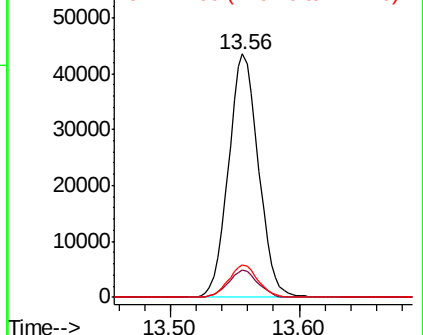
128 100

129 11.0 8.6 13.0

127 13.0 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: 4.925 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV007999.D

Acq: 01 Oct 2018 17:11

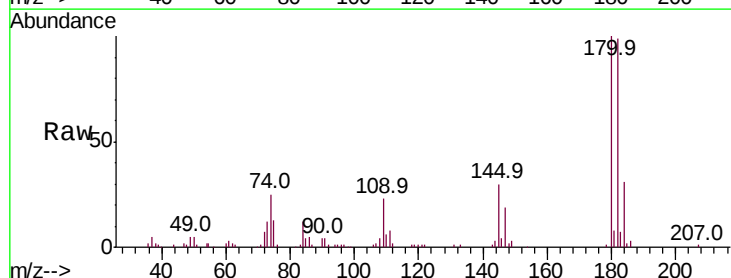
Tgt Ion:180 Resp: 49779

Ion Ratio Lower Upper

180 100

182 97.0 75.7 113.5

145 29.9 23.4 35.0



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

