

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW033019\
 Data File : VW009582.D
 Acq On : 30 Mar 2019 11:03
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02504

Quant Time: Mar 30 21:12:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 29 07:41:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	453723	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	426208	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	227807	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	102373	18.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.52%
7) Chloroethane-d5	2.89	69	117565	18.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.12%
10) 1,1-Dichloroethene-d2	4.01	63	266497	22.74	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	90.96%
20) 2-Butanone-d5	7.07	46	105866	47.21	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.42%
24) Chloroform-d	7.64	84	296240	23.92	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.68%
26) 1,2-Dichloroethane-d4	8.30	65	175969	23.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.36%
29) Benzene-d6	8.27	84	523594	22.28	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.12%
33) 1,2-Dichloropropane-d6	9.27	67	166409	23.57	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.28%
37) Toluene-d8	10.32	98	479525	22.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.24%
38) trans-1,3-Dichloropropene-	10.57	79	76056	21.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.80%
39) 2-Hexanone-d5	10.92	63	80159	46.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.76%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	172029	24.74	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.96%
61) 1,2-Dichlorobenzene-d4	13.85	152	191756	21.95	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	129777	21.712	ug/L 89
3) Chloromethane	2.21	50	135456	21.360	ug/L 97
5) Vinyl chloride	2.37	62	189247	28.994	ug/L 99
6) Bromomethane	2.78	94	129088	23.606	ug/L 99
8) Chloroethane	2.93	64	131977	24.439	ug/L 98
9) Trichlorofluoromethane	3.25	101	119167	23.113	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	147074	24.701	ug/L 96
12) 1,1-Dichloroethene	4.03	96	146890	26.290	ug/L 87
13) Acetone	4.12	43	95873	52.138	ug/L 99
14) Carbon disulfide	4.37	76	402488	26.767	ug/L 100
15) Methyl Acetate	4.66	43	83844	23.210	ug/L 98
16) Methylene chloride	4.91	84	153393	23.183	ug/L 96
17) Methyl tert-butyl Ether	5.42	73	187539	23.722	ug/L 96
18) trans-1,2-Dichloroethene	5.41	96	149164	25.393	ug/L 95
19) 1,1-Dichloroethane	6.20	63	290863	27.156	ug/L 99
21) 2-Butanone	7.17	43	121044	47.674	ug/L 96
22) cis-1,2-Dichloroethene	7.16	96	163733	25.730	ug/L 95

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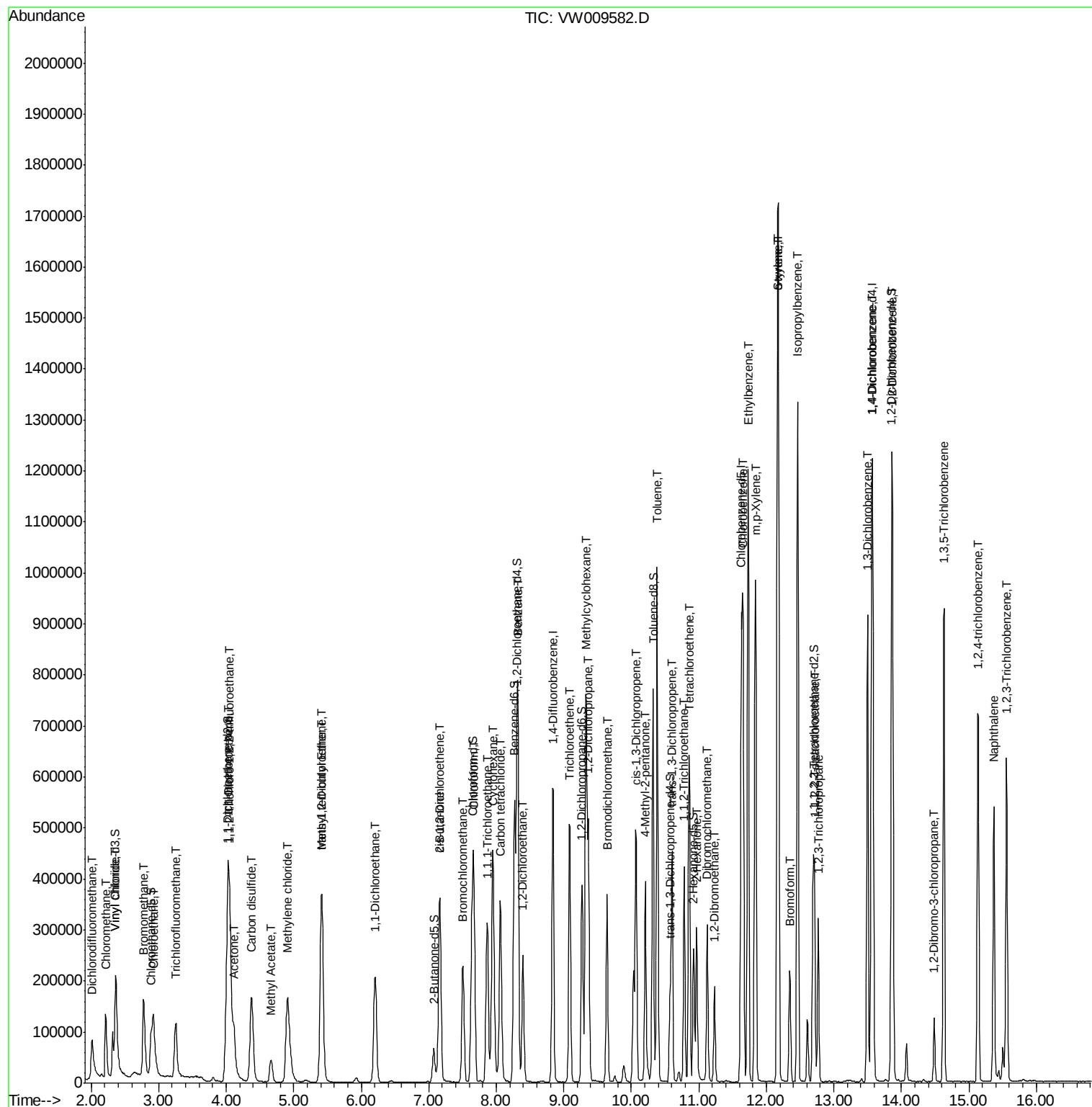
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	73147	23.966	ug/L	94
25) Chloroform	7.66	83	307462	27.411	ug/L	98
27) 1,2-Dichloroethane	8.40	62	226611	27.097	ug/L	99
30) Cyclohexane	7.95	56	251676	26.001	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	241792	28.405	ug/L	99
32) Carbon tetrachloride	8.06	117	243766	28.383	ug/L	98
34) Benzene	8.32	78	635206	27.229	ug/L	100
35) Trichloroethene	9.09	95	165766	26.667	ug/L	98
36) Methylcyclohexane	9.33	83	282999	26.315	ug/L	99
40) 1,2-Dichloropropane	9.37	63	160601	26.828	ug/L	98
41) Bromodichloromethane	9.64	83	222477	26.823	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	254618	26.115	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	252861	46.615	ug/L	99
44) Toluene	10.38	91	695740	27.277	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	219034	25.825	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	121232	25.385	ug/L	98
47) Tetrachloroethene	10.86	164	133262	25.372	ug/L	98
49) 2-Hexanone	10.97	43	193708	50.703	ug/L	99
50) Dibromochloromethane	11.13	129	151141	25.637	ug/L	98
51) 1,2-Dibromoethane	11.23	107	118653	24.508	ug/L	98
52) Chlorobenzene	11.66	112	434738	26.575	ug/L	99
53) Ethylbenzene	11.73	91	800291	27.908	ug/L	100
54) m,p-Xylene	11.84	106	295932	27.163	ug/L	96
55) o-xylene	12.16	106	280481	26.390	ug/L	98
56) Styrene	12.18	104	497225	27.419	ug/L	95
57) Isopropylbenzene	12.46	105	807509	28.362	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	163805	25.425	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	120541	25.210	ug/L	100
62) Bromoform	12.35	173	92002	23.902	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	343935	25.332	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	354326	25.242	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	326481	25.215	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	29496	23.244	ug/L	84
67) 1,3,5-Trichlorobenzene	14.63	180	269327	25.433	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	216072	24.291	ug/L	99
69) Naphthalene	15.37	128	432057	23.428	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	206303	24.762	ug/L	98

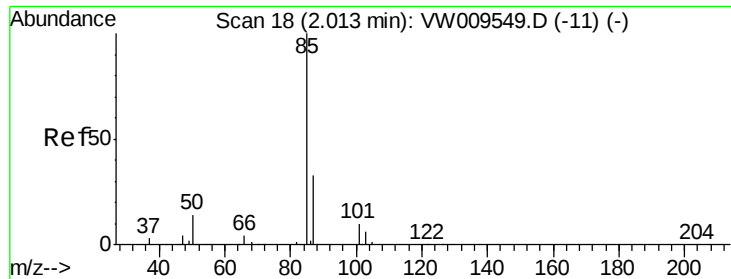
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.712 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

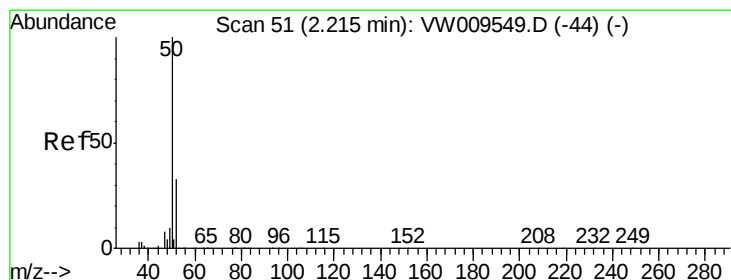
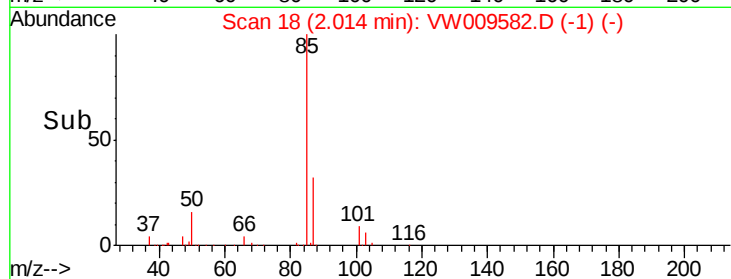
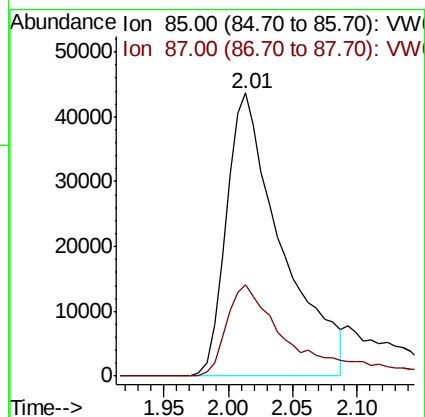
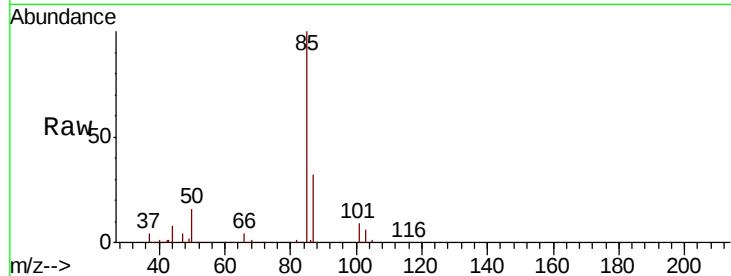
VSTD02504

Tgt Ion: 85 Resp: 129777

Ion Ratio Lower Upper

85 100

87 33.4 19.5 36.3



#3

Chloromethane

Concen: 21.360 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW009582.D

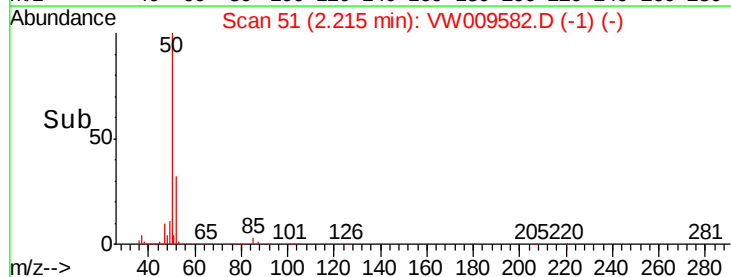
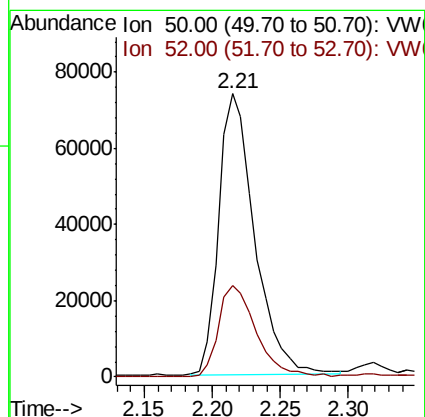
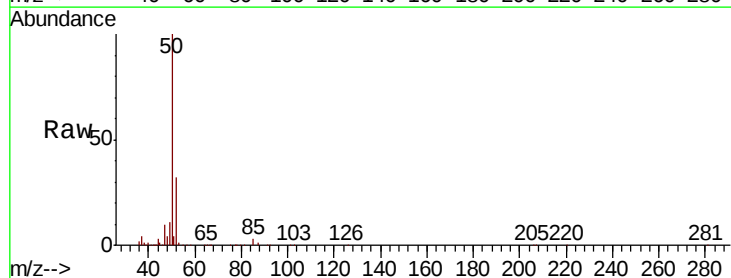
Acq: 30 Mar 2019 11:03

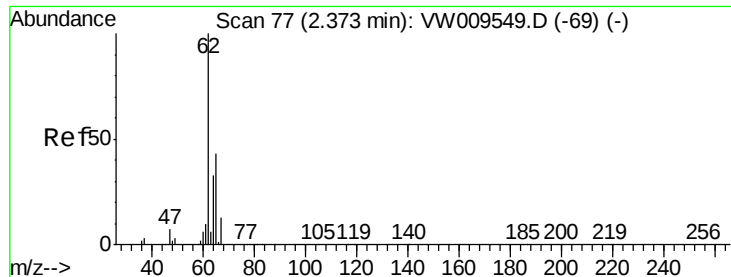
Tgt Ion: 50 Resp: 135456

Ion Ratio Lower Upper

50 100

52 32.4 21.6 40.2





#5

Vinyl chloride

Concen: 28.994 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.01 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

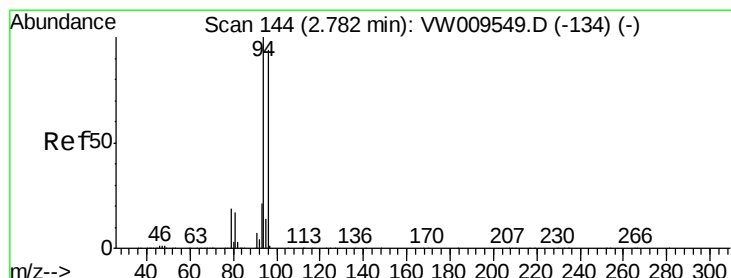
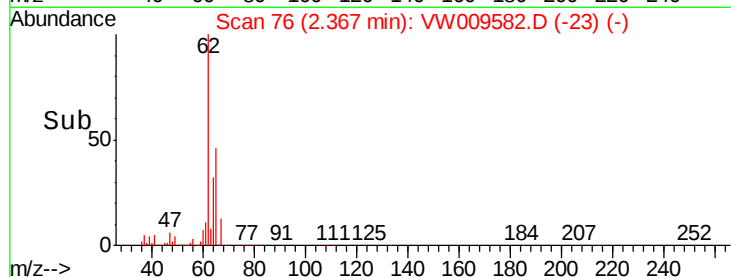
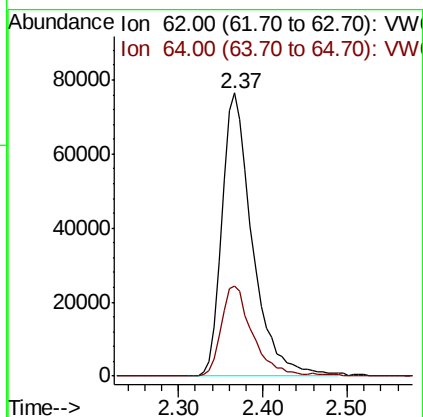
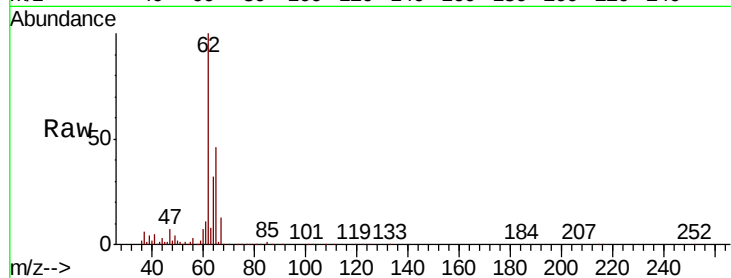
VSTD02504

Tgt Ion: 62 Resp: 189247

Ion Ratio Lower Upper

62 100

64 32.0 23.0 42.6



#6

Bromomethane

Concen: 23.606 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW009582.D

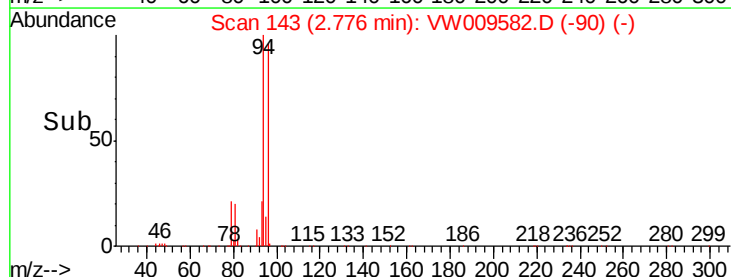
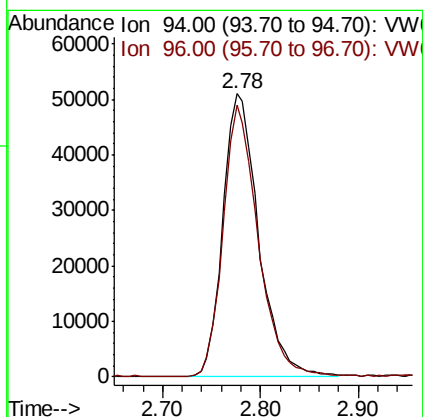
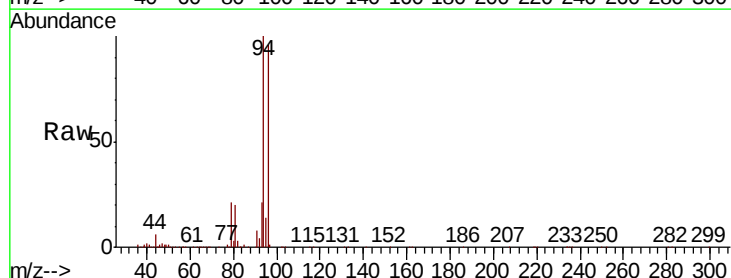
Acq: 30 Mar 2019 11:03

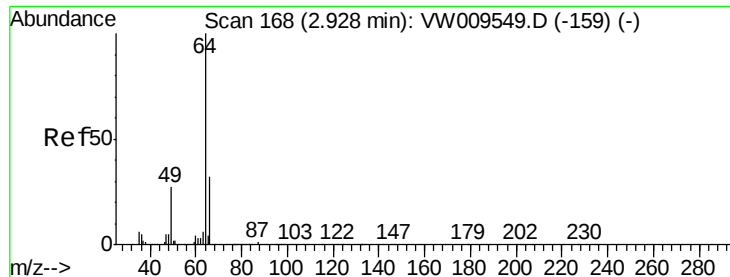
Tgt Ion: 94 Resp: 129088

Ion Ratio Lower Upper

94 100

96 94.7 9.4 178.4

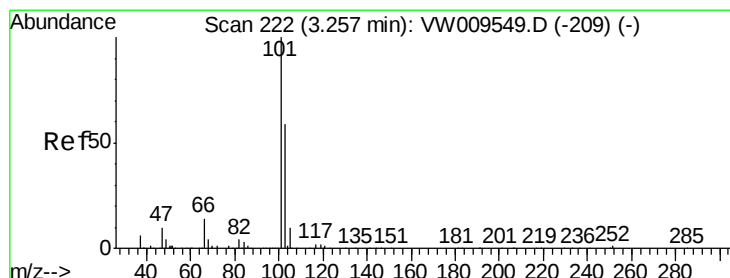
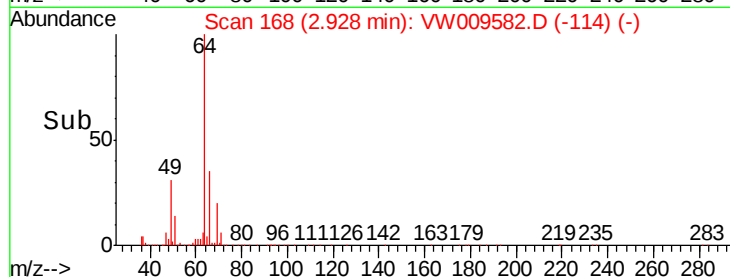
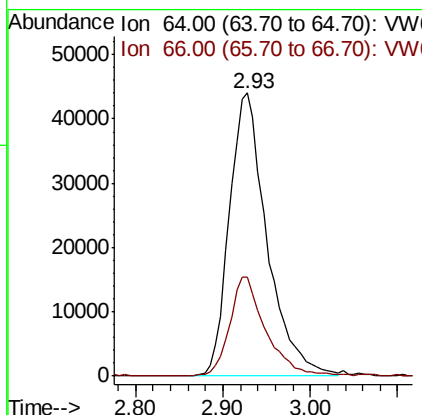
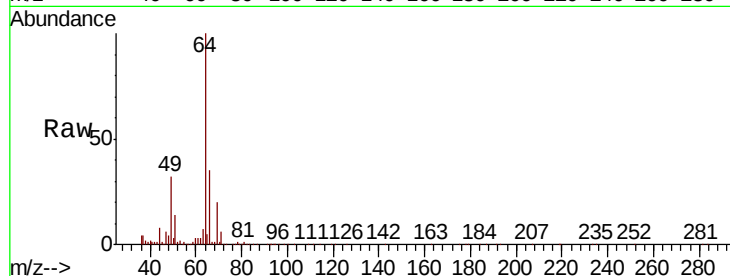




#8
Chloroethane
Concen: 24.439 ug/L
RT: 2.93 min Scan# 168
Delta R.T. 0.00 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

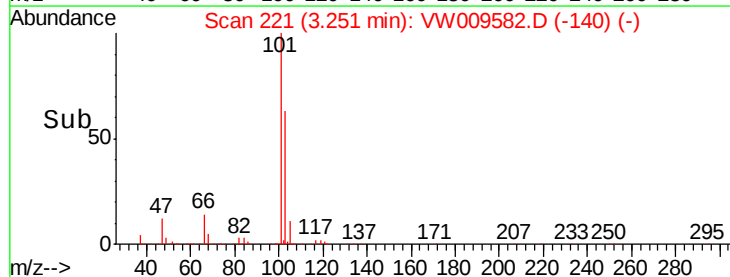
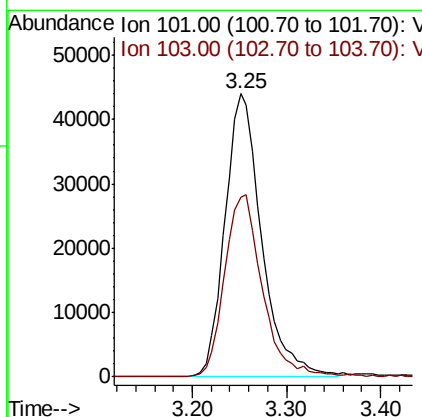
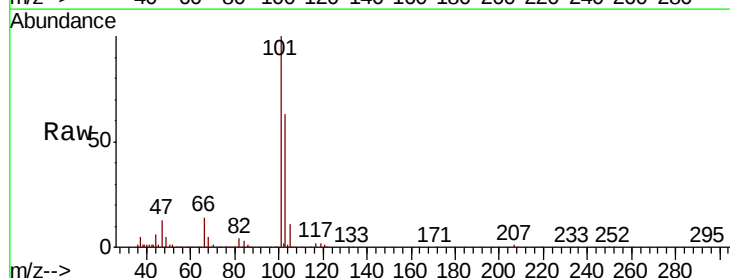
Instrument :
MSVOA_W
ClientSampleId :
VSTD02504

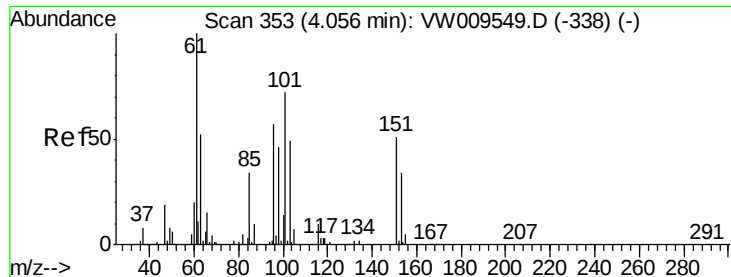
Tgt Ion: 64 Resp: 131977
Ion Ratio Lower Upper
64 100
66 34.8 25.1 46.7



#9
Trichlorofluoromethane
Concen: 23.113 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Tgt Ion: 101 Resp: 119167
Ion Ratio Lower Upper
101 100
103 66.1 45.0 83.6





#11

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

Concen: 24.701 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02504

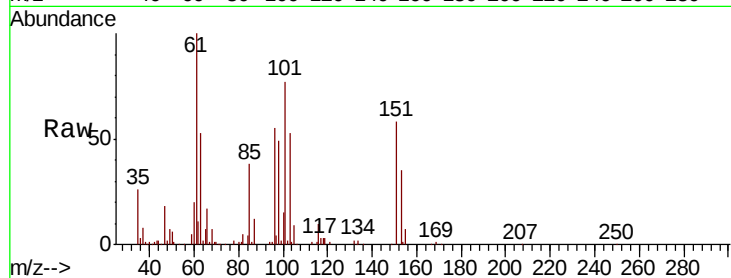
Tgt Ion: 101 Resp: 147074

Ion Ratio Lower Upper

101 100

85 47.7 32.6 48.8

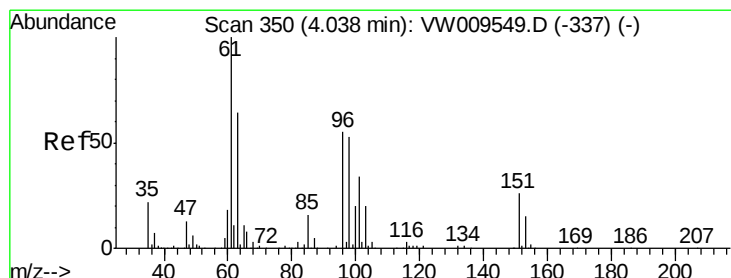
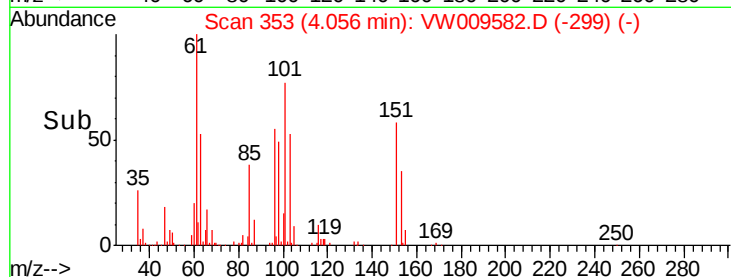
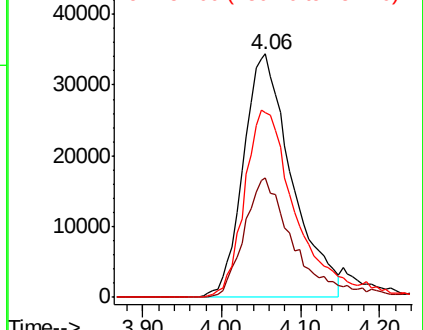
151 79.5 63.3 94.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.290 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

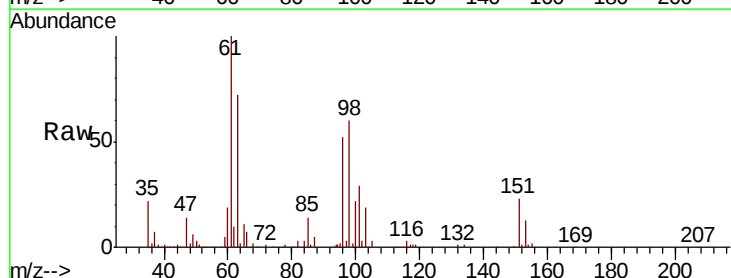
Tgt Ion: 96 Resp: 146890

Ion Ratio Lower Upper

96 100

61 191.1 129.4 240.2

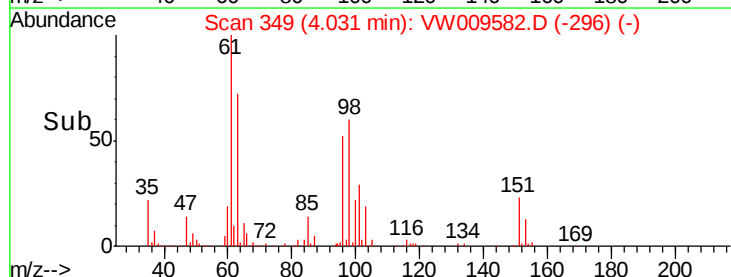
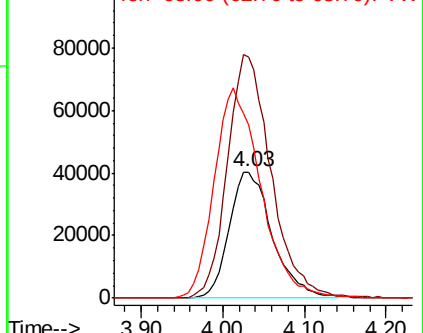
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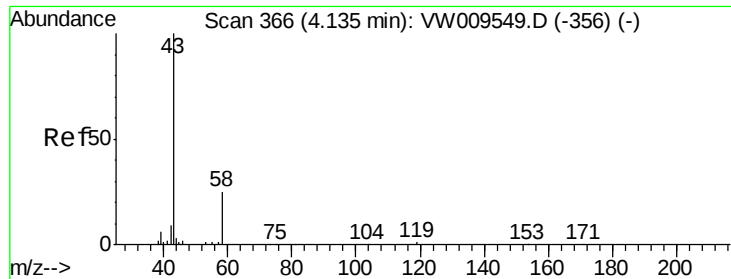


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 52.138 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.02 min

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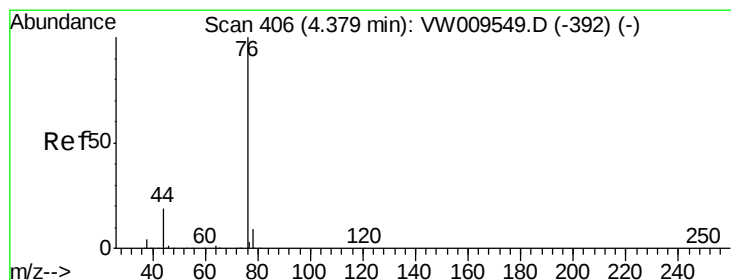
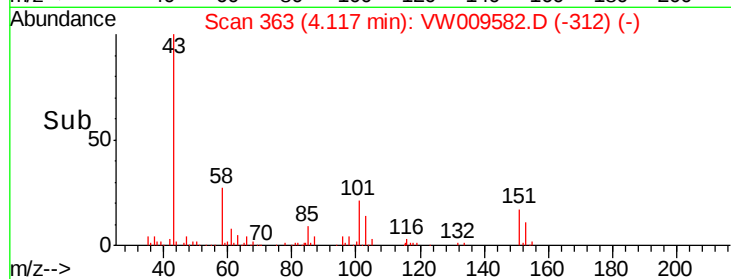
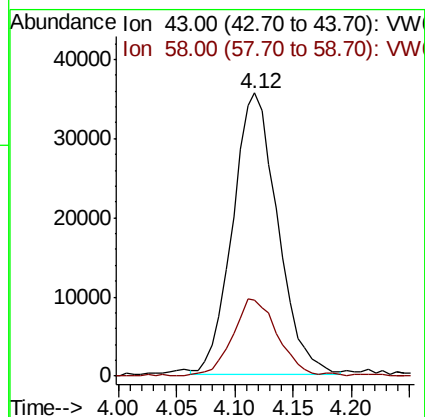
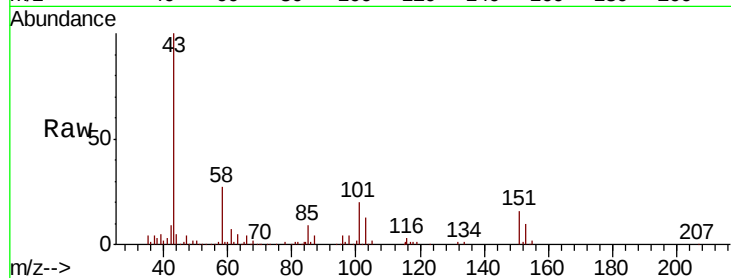
VSTD02504

Tgt Ion: 43 Resp: 95873

Ion Ratio Lower Upper

43 100

58 27.3 0.0 56.2



#14

Carbon disulfide

Concen: 26.767 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009582.D

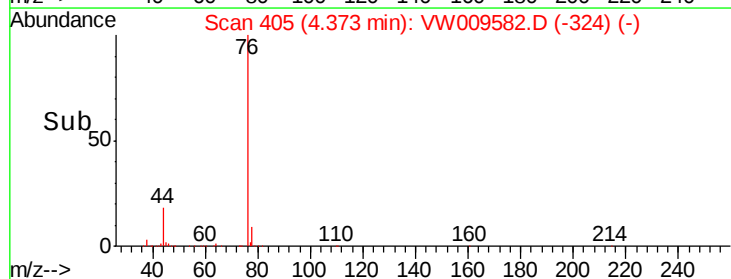
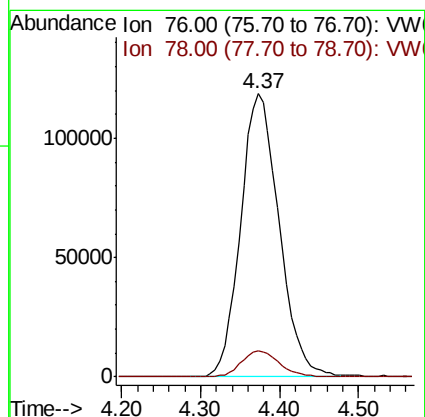
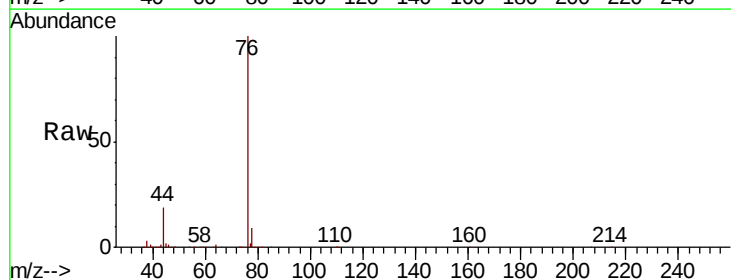
Acq: 30 Mar 2019 11:03

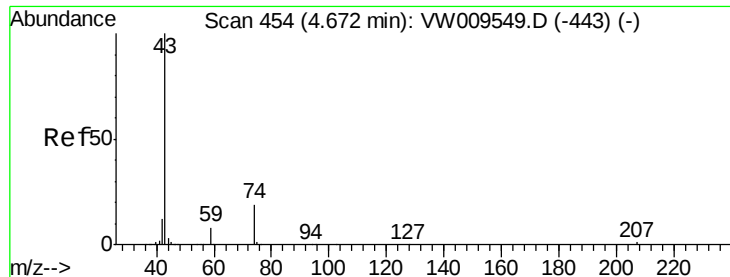
Tgt Ion: 76 Resp: 402488

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

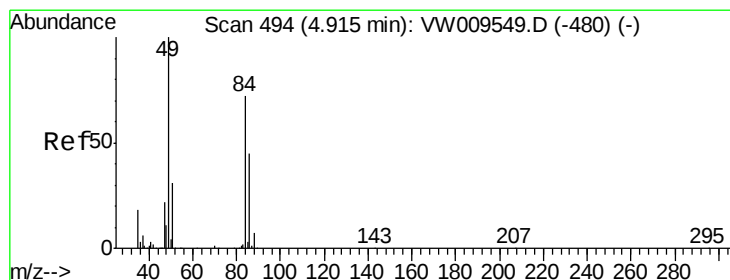
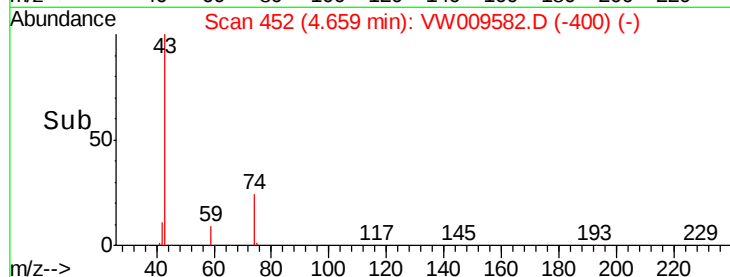
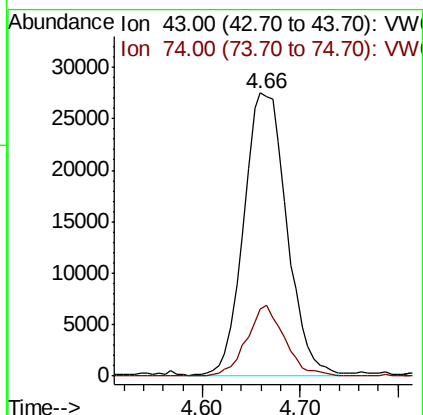
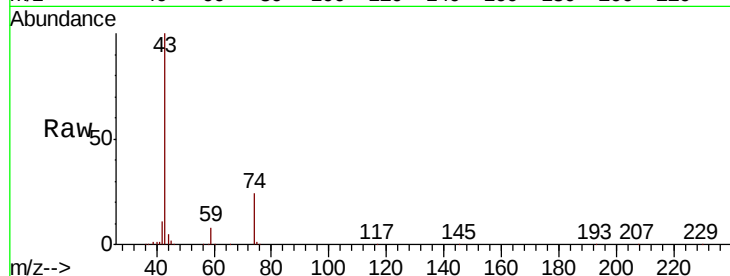




#15
Methyl Acetate
Concen: 23.210 ug/L
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

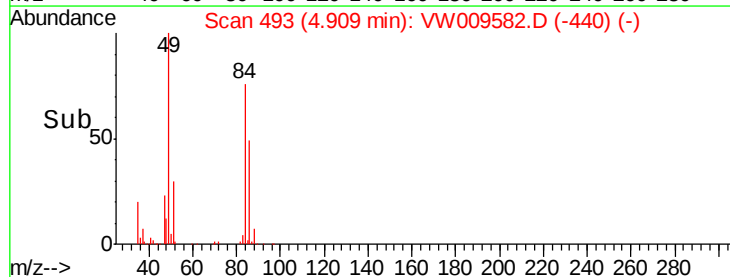
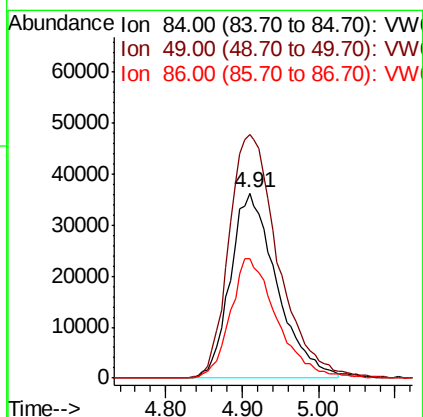
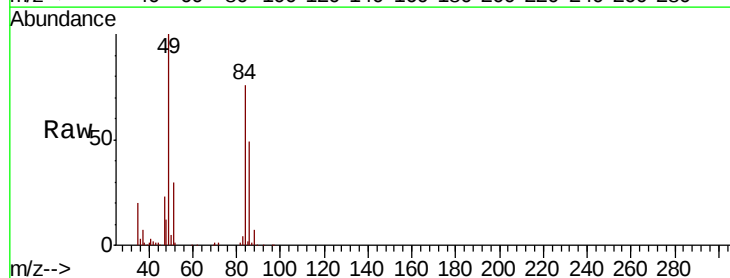
Instrument :
MSVOA_W
ClientSampleId :
VSTD02504

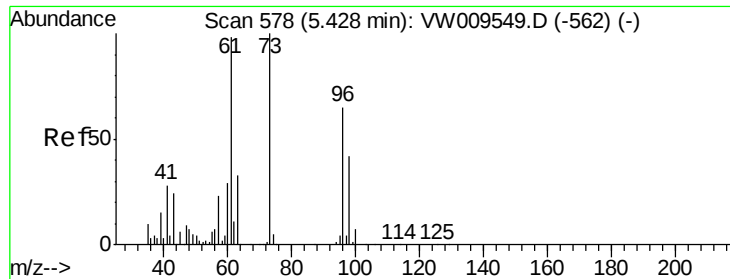
Tgt Ion: 43 Resp: 83844
Ion Ratio Lower Upper
43 100
74 22.0 16.7 25.1



#16
Methylene chloride
Concen: 23.183 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Tgt Ion: 84 Resp: 153393
Ion Ratio Lower Upper
84 100
49 131.4 96.0 178.2
86 64.3 44.4 82.5

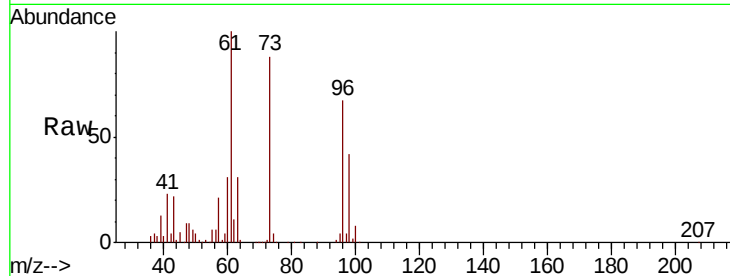




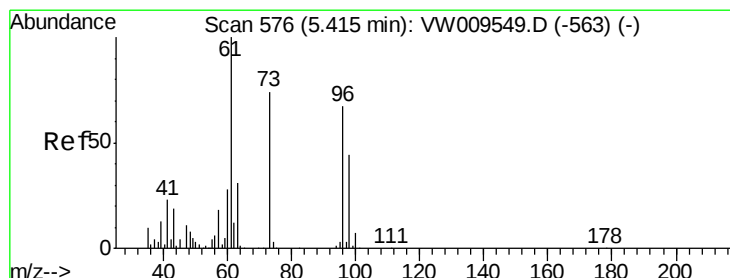
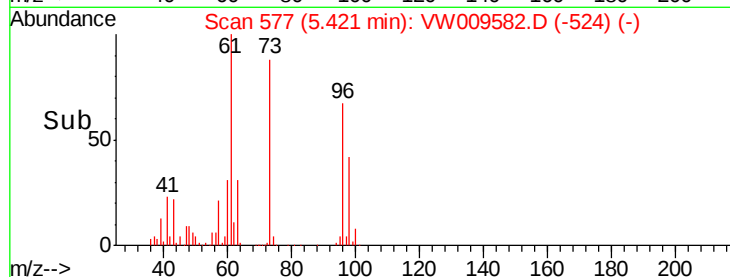
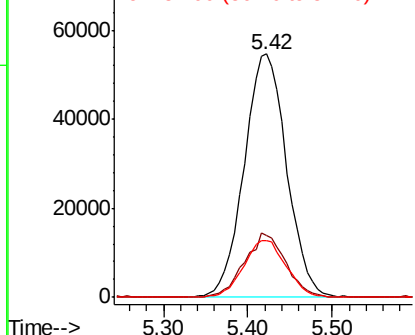
#17
Methyl tert-butyl Ether
Concen: 23.722 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Instrument :
MSVOA_W
ClientSampled :
VSTD02504

Tgt Ion: 73 Resp: 187539
Ion Ratio Lower Upper
73 100
43 25.5 18.2 27.4
57 23.6 17.8 26.8

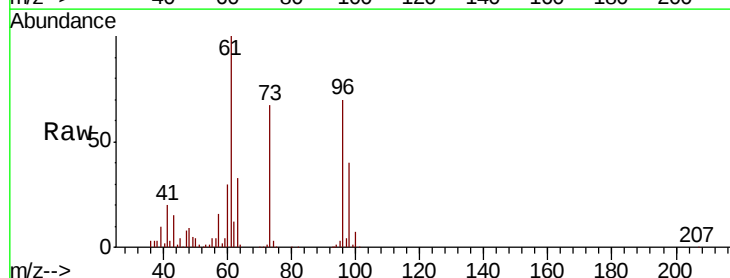


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

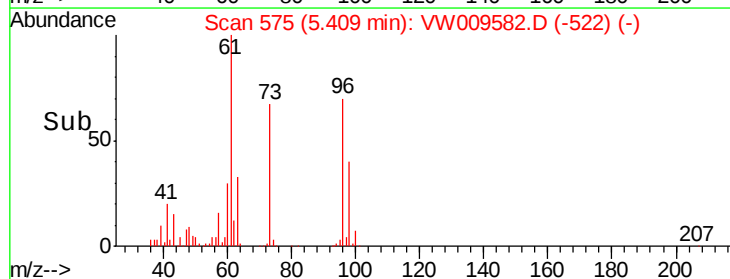
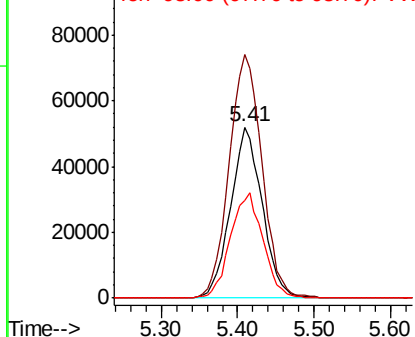


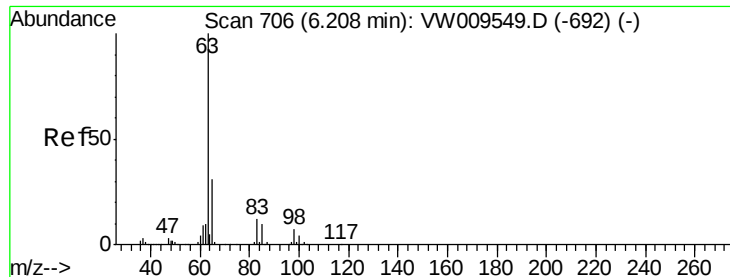
#18
trans-1,2-Dichloroethene
Concen: 25.393 ug/L
RT: 5.41 min Scan# 575
Delta R.T. -0.01 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Tgt Ion: 96 Resp: 149164
Ion Ratio Lower Upper
96 100
61 142.2 96.7 179.5
98 57.2 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW

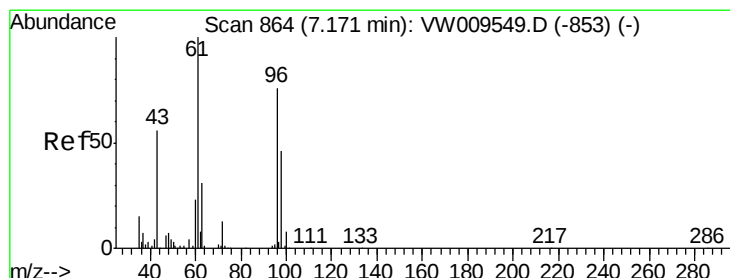
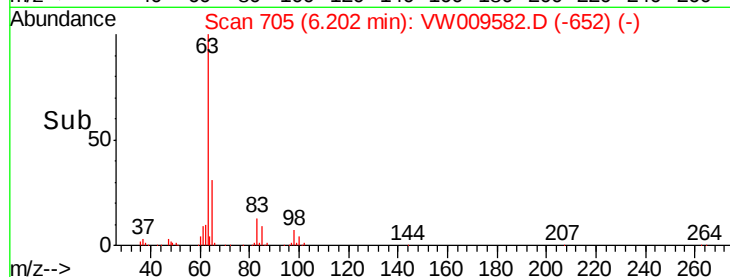
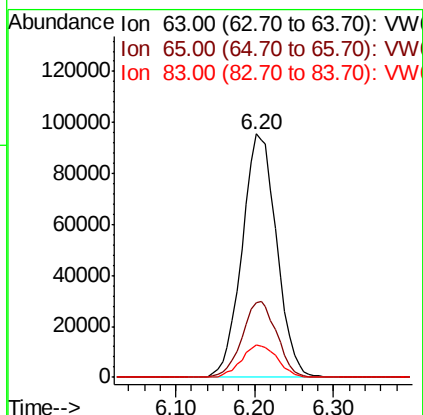
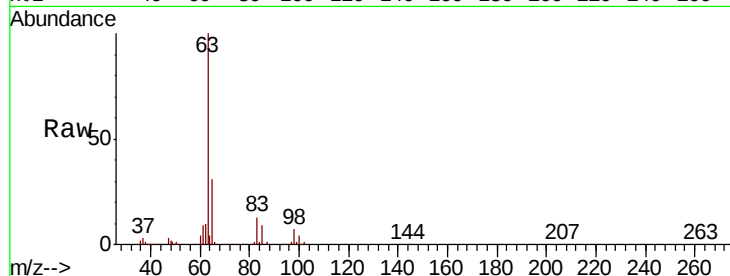




#19
 1,1-Dichloroethane
 Concen: 27.156 ug/L
 RT: 6.20 min Scan# 705
 Delta R.T. -0.01 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

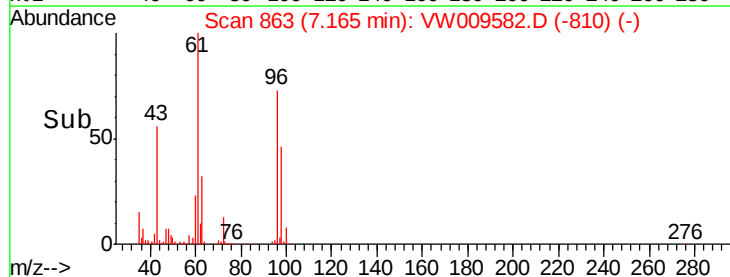
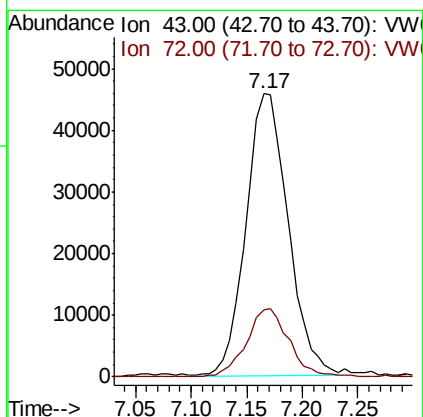
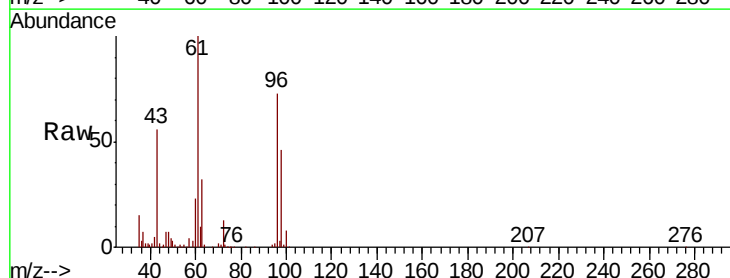
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02504

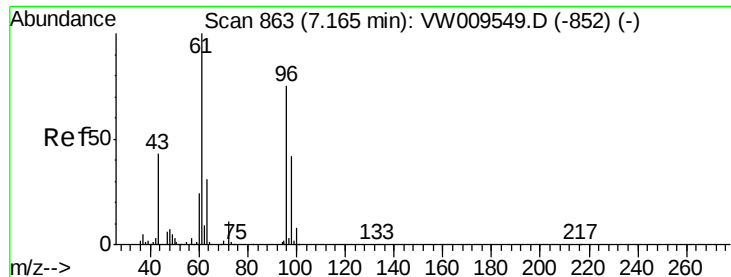
Tgt Ion: 63 Resp: 290863
 Ion Ratio Lower Upper
 63 100
 65 30.5 21.6 40.0
 83 13.4 10.1 18.7



#21
 2-Butanone
 Concen: 47.674 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Tgt Ion: 43 Resp: 121044
 Ion Ratio Lower Upper
 43 100
 72 24.3 13.1 39.1



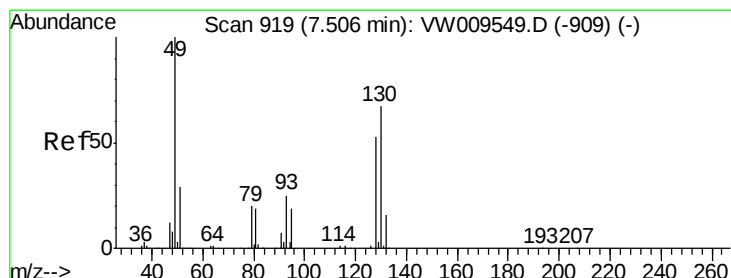
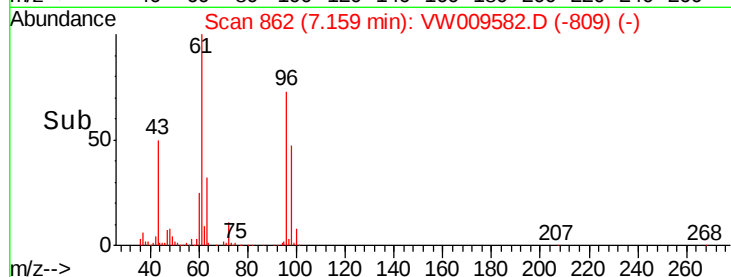
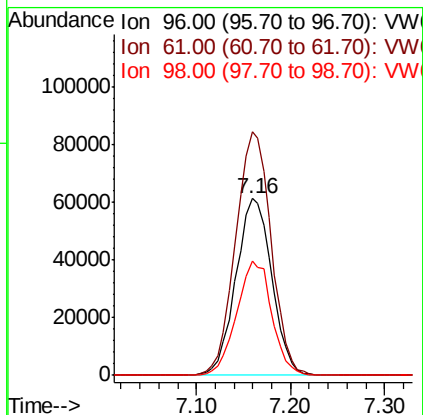
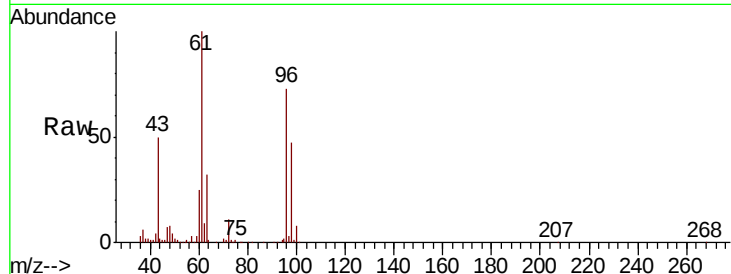


#22

cis-1,2-Dichloroethene
 Concen: 25.730 ug/L
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02504

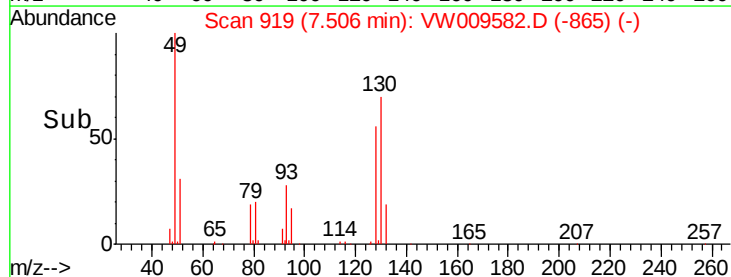
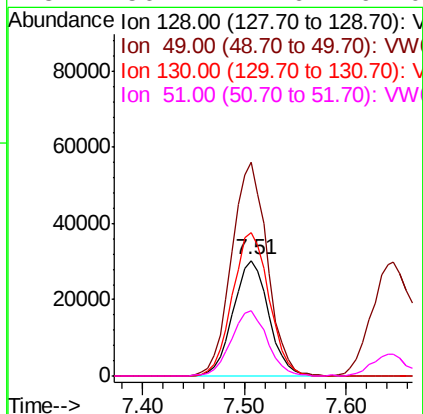
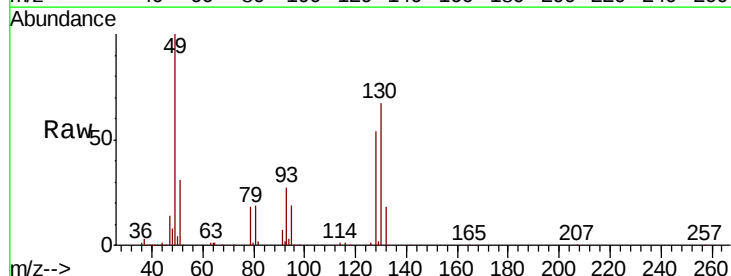
Tgt Ion: 96 Resp: 163733
 Ion Ratio Lower Upper
 96 100
 61 137.8 90.6 168.3
 98 64.4 44.0 81.8

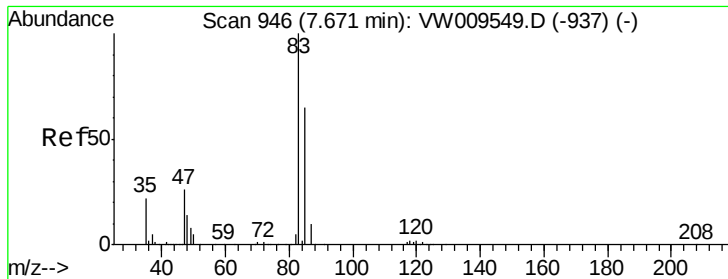


#23

Bromochloromethane
 Concen: 23.966 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Tgt Ion: 128 Resp: 73147
 Ion Ratio Lower Upper
 128 100
 49 185.4 118.4 219.8
 130 124.7 87.8 163.2
 51 56.7 44.6 67.0





#25

Chloroform

Concen: 27.411 ug/L

RT: 7.66 min Scan# 945

Delta R.T. -0.01 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampled :

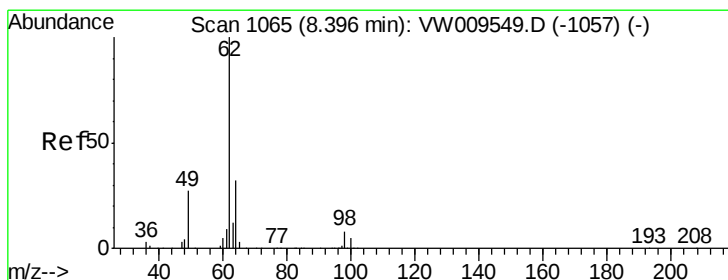
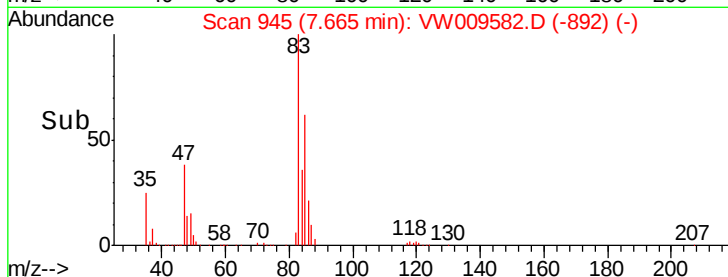
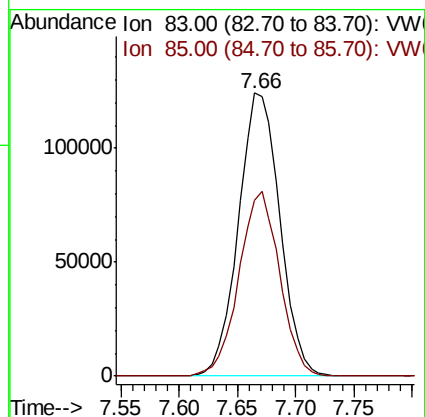
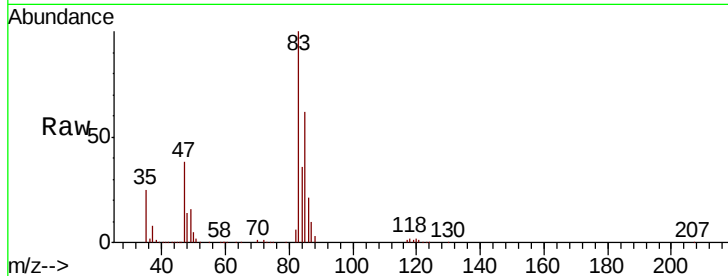
VSTD02504

Tgt Ion: 83 Resp: 307462

Ion Ratio Lower Upper

83 100

85 64.1 46.0 85.4



#27

1,2-Dichloroethane

Concen: 27.097 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW009582.D

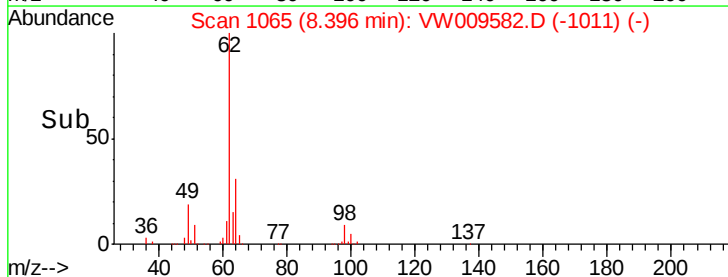
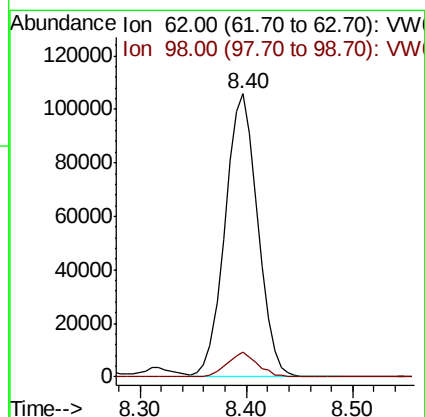
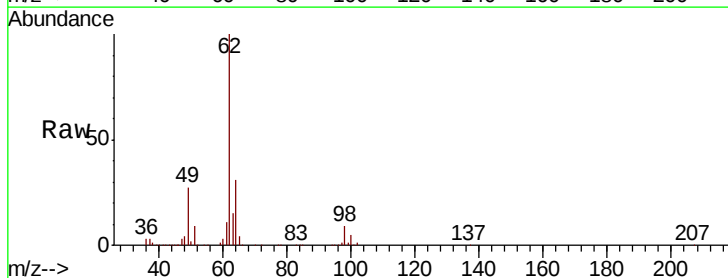
Acq: 30 Mar 2019 11:03

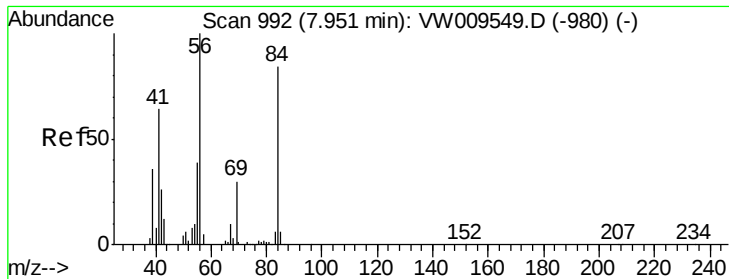
Tgt Ion: 62 Resp: 226611

Ion Ratio Lower Upper

62 100

98 8.7 7.3 10.9

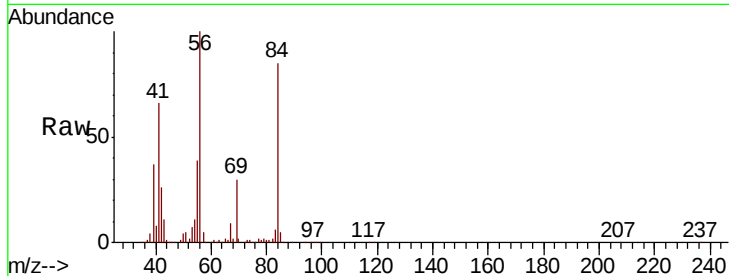




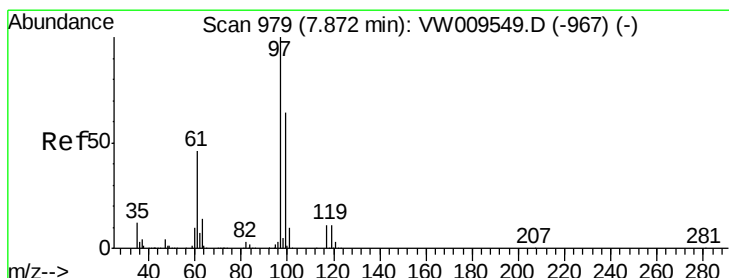
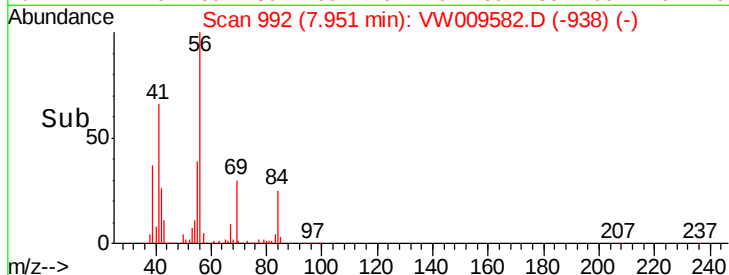
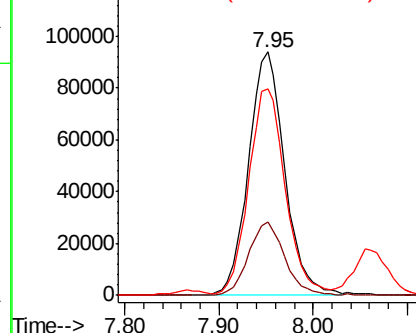
#30
Cyclohexane
Concen: 26.001 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Instrument :
MSVOA_W
ClientSampleId :
VSTD02504

Tgt Ion: 56 Resp: 251676
Ion Ratio Lower Upper
56 100
69 30.2 24.0 36.0
84 86.4 69.2 103.8

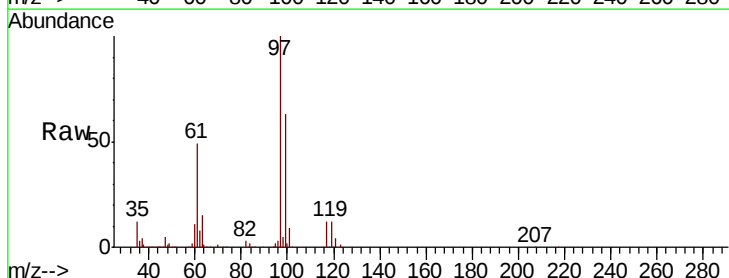


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

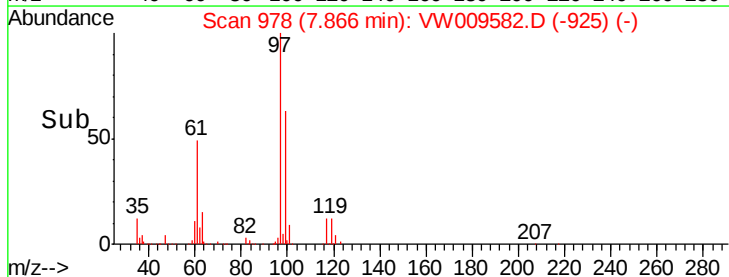
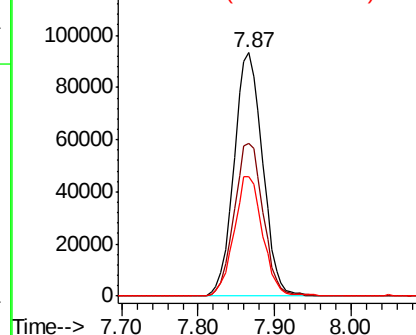


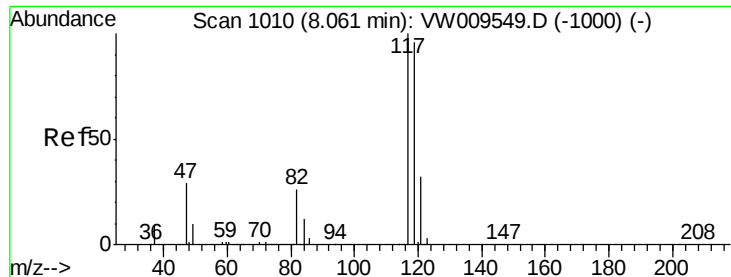
#31
1,1,1-Trichloroethane
Concen: 28.405 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Tgt Ion: 97 Resp: 241792
Ion Ratio Lower Upper
97 100
99 63.7 51.2 76.8
61 49.0 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 28.383 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampled :

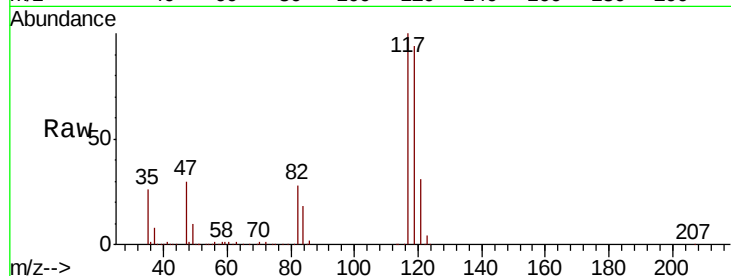
VSTD02504

Tgt Ion:117 Resp: 243766

Ion Ratio Lower Upper

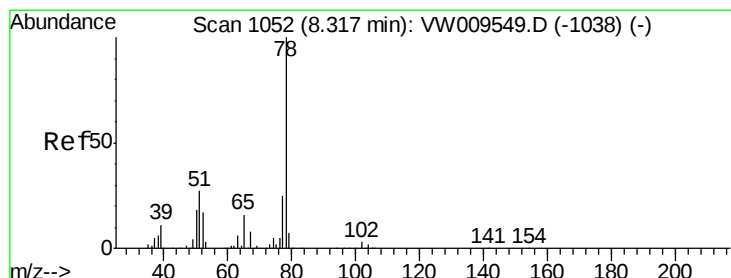
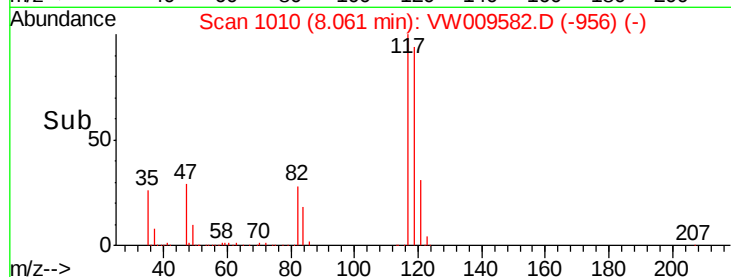
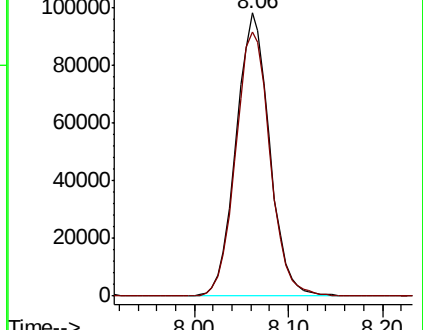
117 100

119 96.0 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.229 ug/L

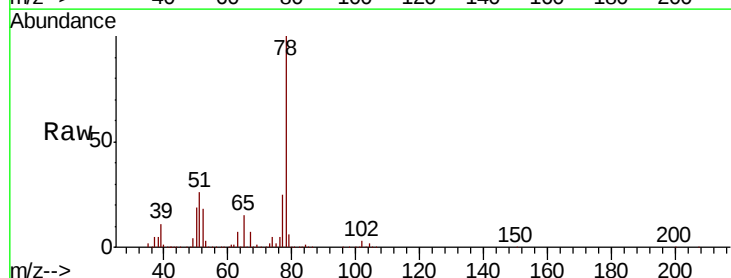
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

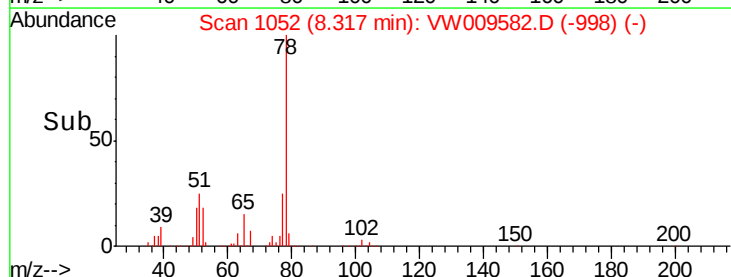
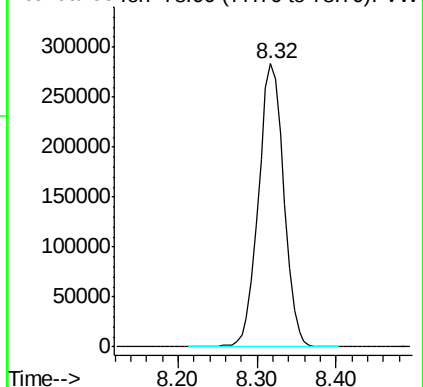
Lab File: VW009582.D

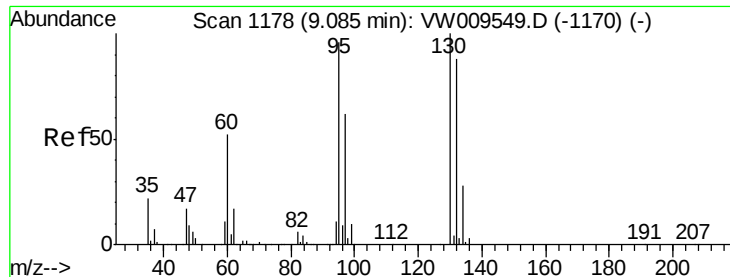
Acq: 30 Mar 2019 11:03

Tgt Ion: 78 Resp: 635206



Abundance Ion 78.00 (77.70 to 78.70): VW

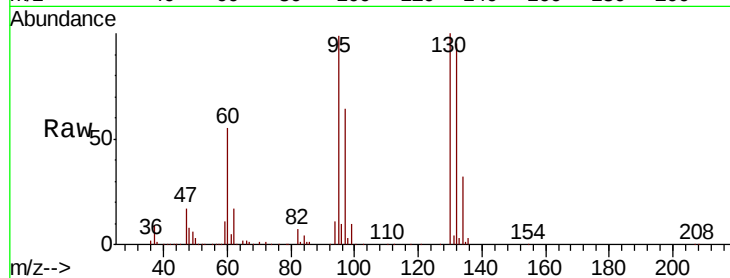




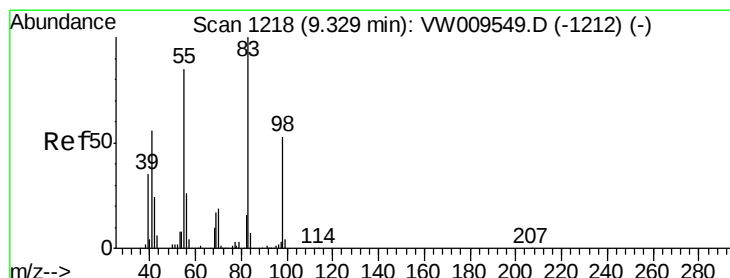
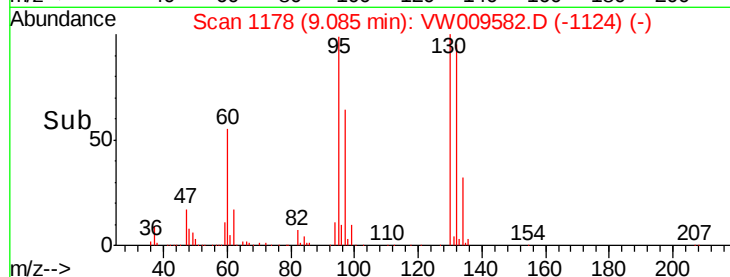
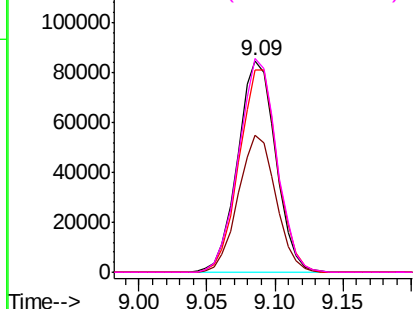
#35
 Trichloroethene
 Concen: 26.667 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02504

Tgt Ion: 95 Resp: 165766
 Ion Ratio Lower Upper
 95 100
 97 64.2 44.7 82.9
 132 96.3 69.0 128.2
 130 100.9 72.7 134.9

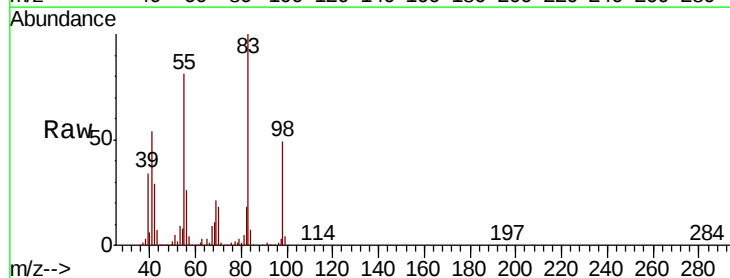


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

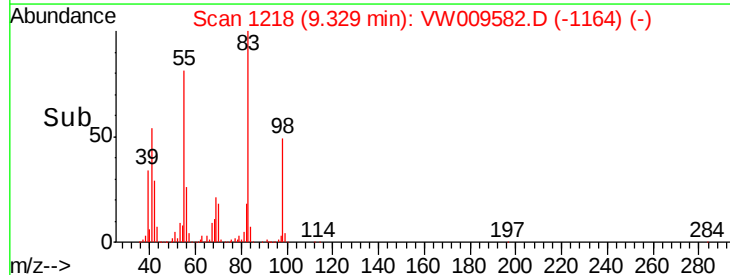
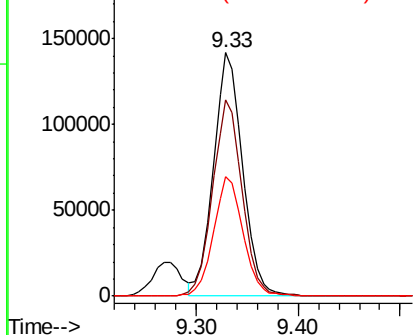


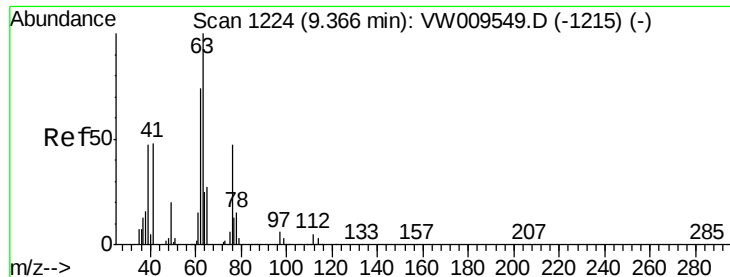
#36
 Methylcyclohexane
 Concen: 26.315 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Tgt Ion: 83 Resp: 282999
 Ion Ratio Lower Upper
 83 100
 55 81.4 63.5 95.3
 98 49.9 39.8 59.8



Abundance Ion 83.00 (82.70 to 83.70): VW
 Ion 55.00 (54.70 to 55.70): VW
 Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 26.828 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

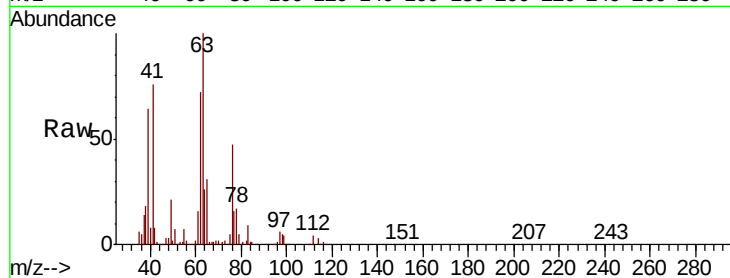
VSTD02504

Tgt Ion: 63 Resp: 160601

Ion Ratio Lower Upper

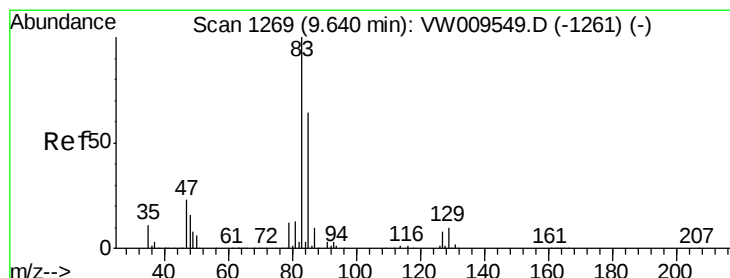
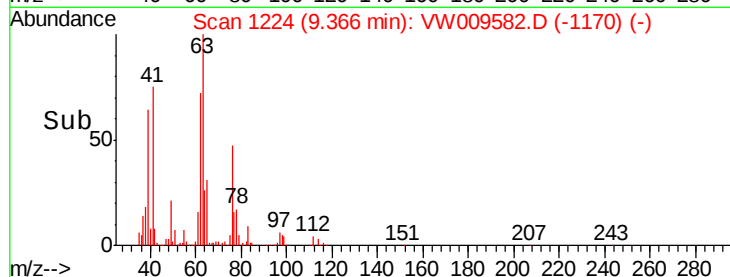
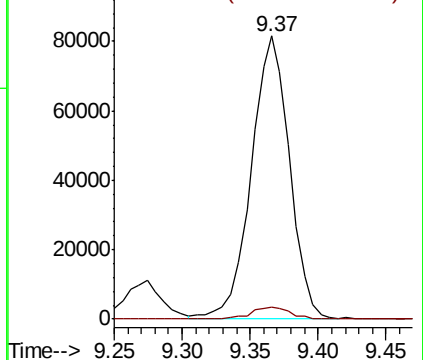
63 100

112 4.4 4.0 6.0



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 26.823 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

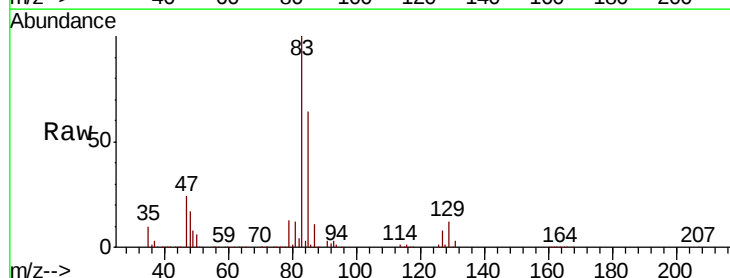
Tgt Ion: 83 Resp: 222477

Ion Ratio Lower Upper

83 100

85 63.7 43.5 80.7

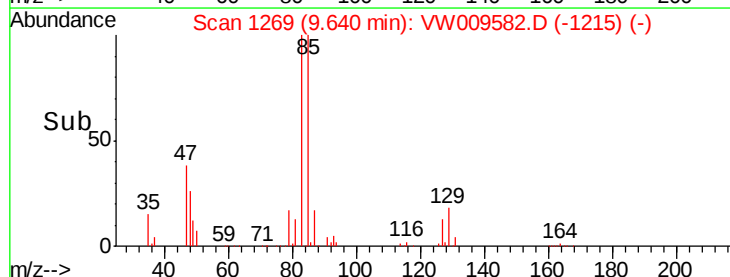
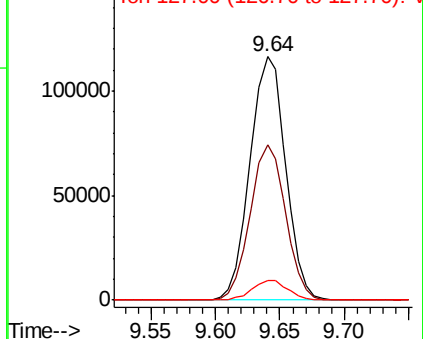
127 8.3 6.2 9.4

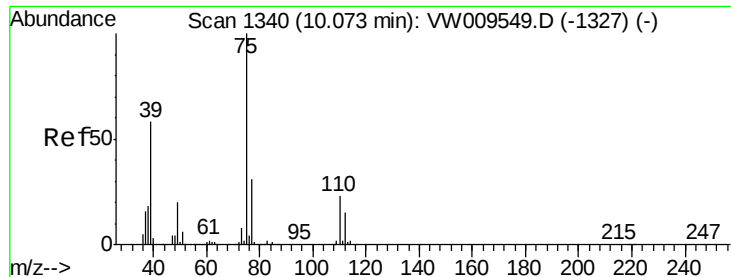


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 26.115 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

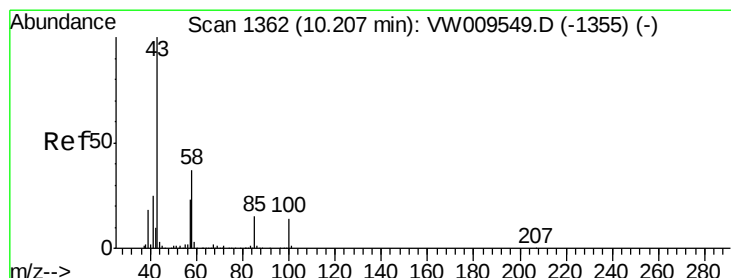
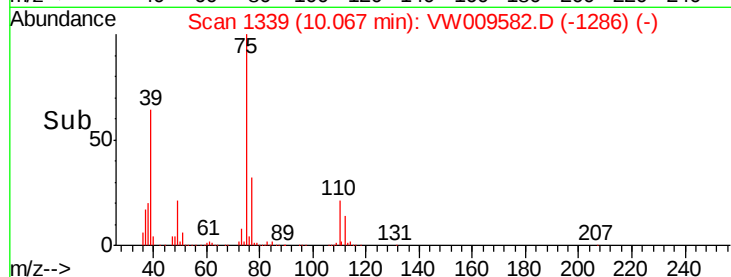
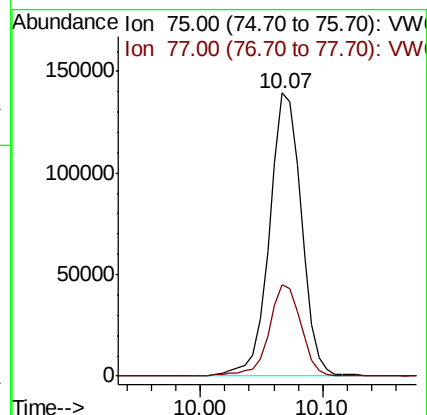
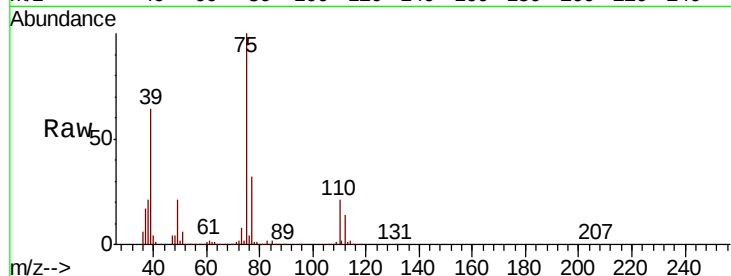
VSTD02504

Tgt Ion: 75 Resp: 254618

Ion Ratio Lower Upper

75 100

77 32.4 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 46.615 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

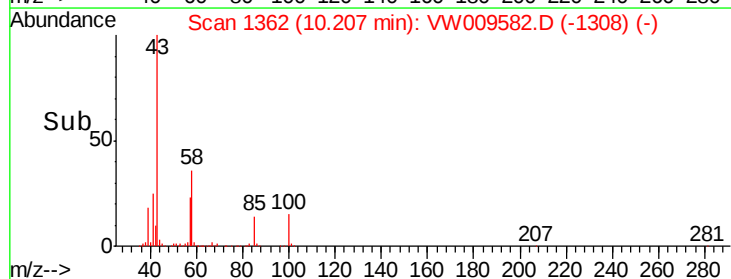
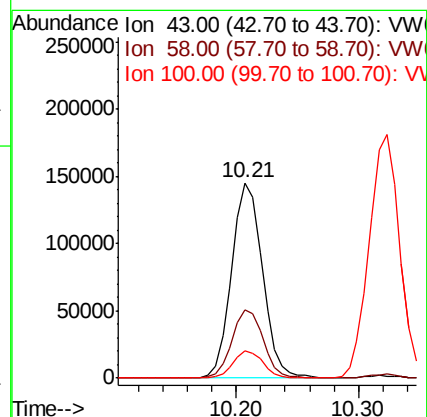
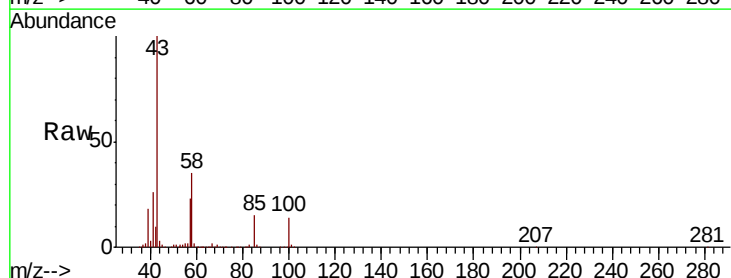
Tgt Ion: 43 Resp: 252861

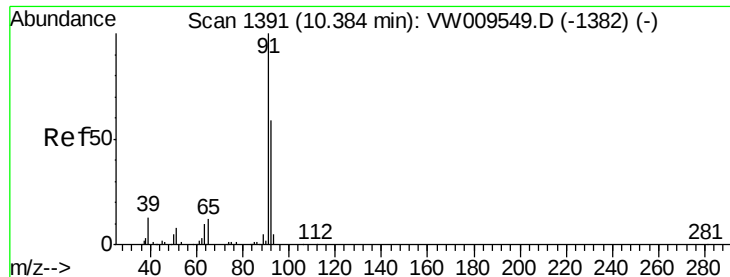
Ion Ratio Lower Upper

43 100

58 35.7 28.2 42.2

100 13.6 11.4 17.2





#44

Toluene

Concen: 27.277 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

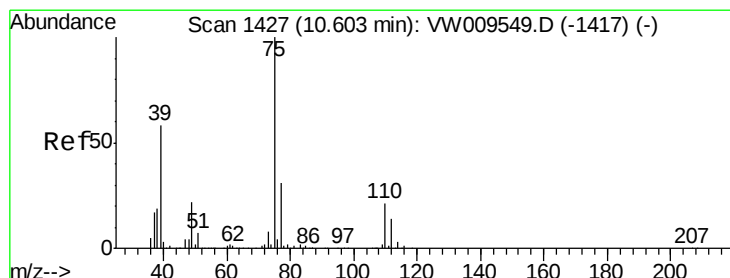
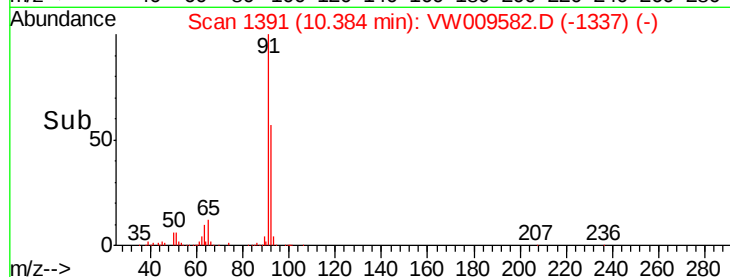
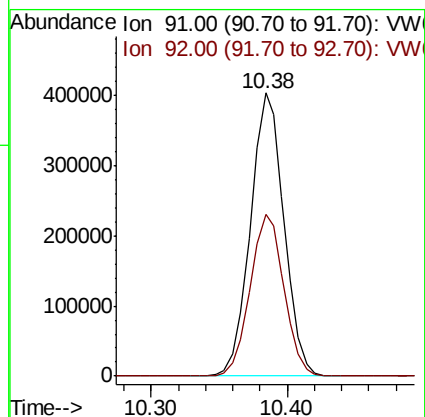
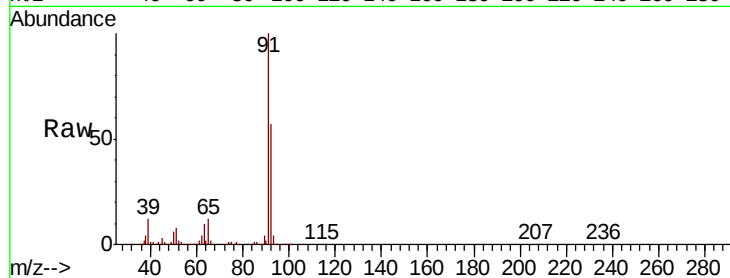
VSTD02504

Tgt Ion: 91 Resp: 695740

Ion Ratio Lower Upper

91 100

92 57.2 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 25.825 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009582.D

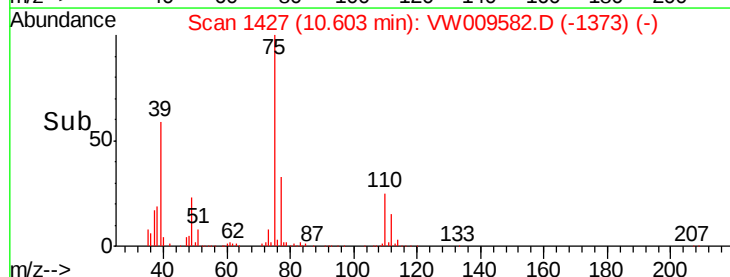
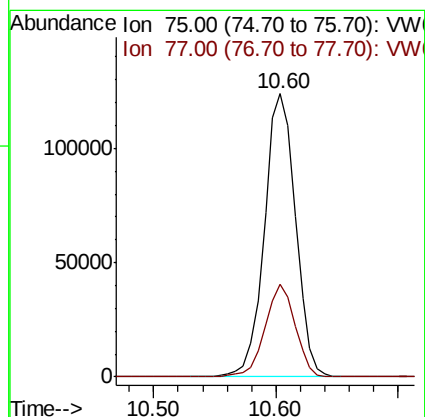
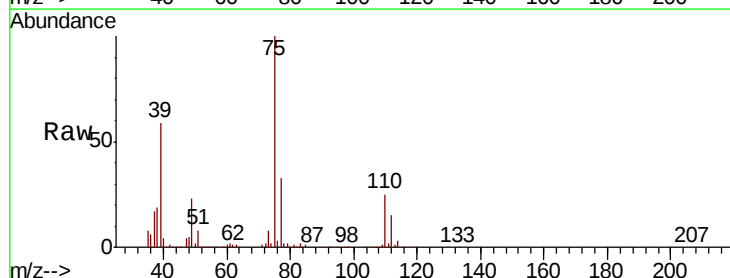
Acq: 30 Mar 2019 11:03

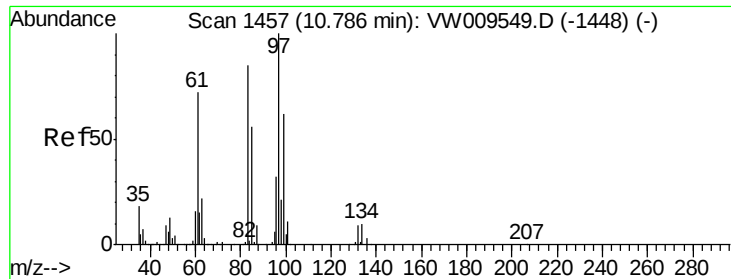
Tgt Ion: 75 Resp: 219034

Ion Ratio Lower Upper

75 100

77 32.8 22.5 41.7

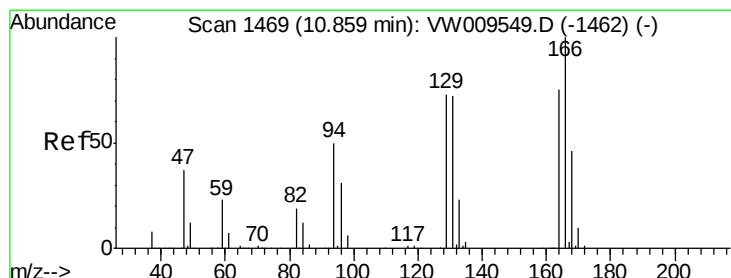
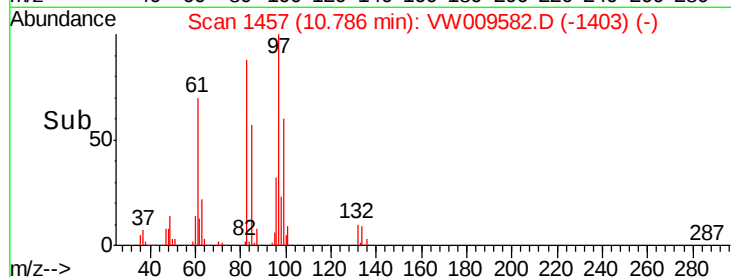
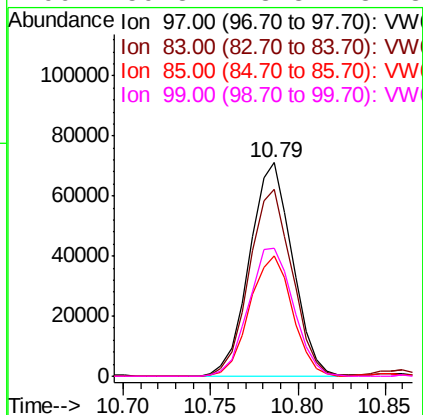
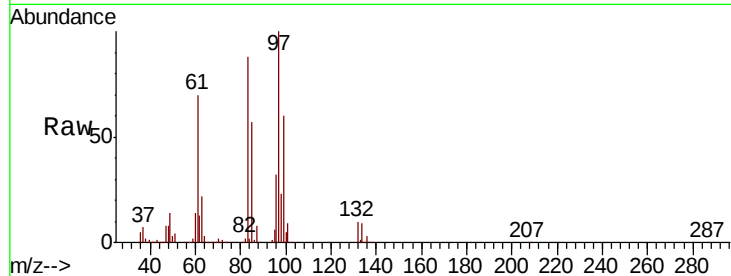




#46
 1,1,2-Trichloroethane
 Concen: 25.385 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

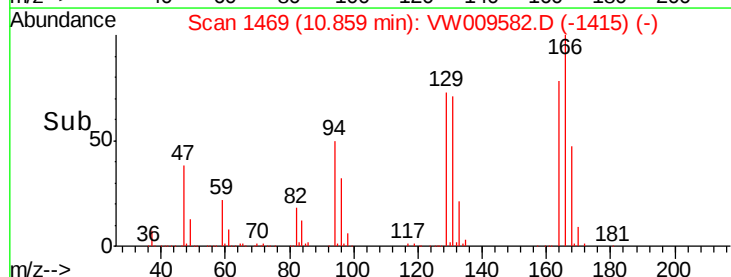
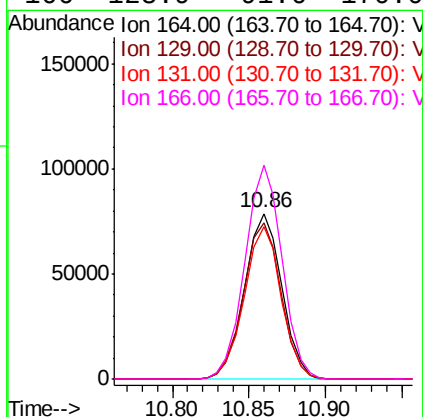
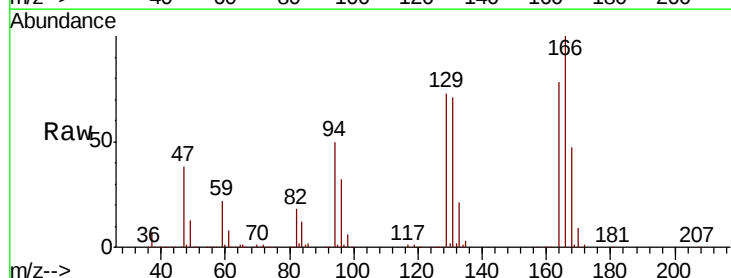
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02504

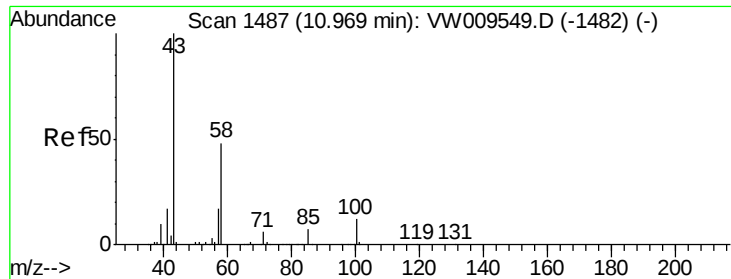
Tgt Ion: 97 Resp: 121232
 Ion Ratio Lower Upper
 97 100
 83 87.6 60.7 112.7
 85 56.6 40.1 74.5
 99 59.8 43.8 81.3



#47
 Tetrachloroethene
 Concen: 25.372 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Tgt Ion: 164 Resp: 133262
 Ion Ratio Lower Upper
 164 100
 129 94.2 66.5 123.5
 131 92.0 62.6 116.3
 166 128.9 91.6 170.0





#49

2-Hexanone

Concen: 50.703 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02504

Tgt Ion: 43 Resp: 193708

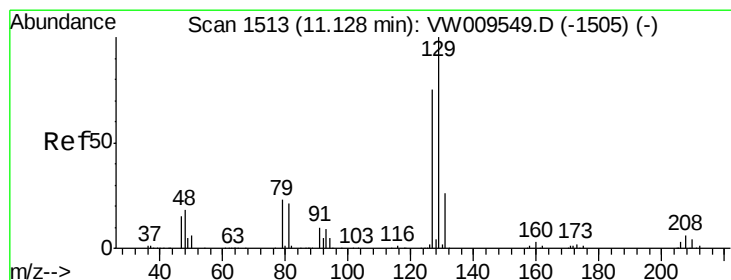
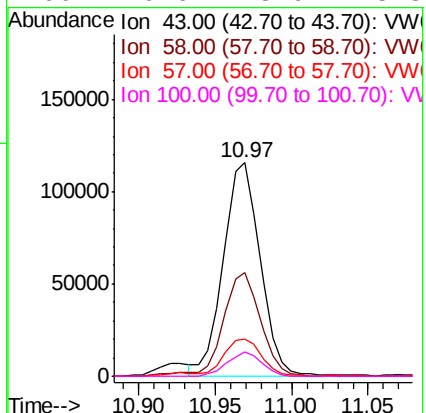
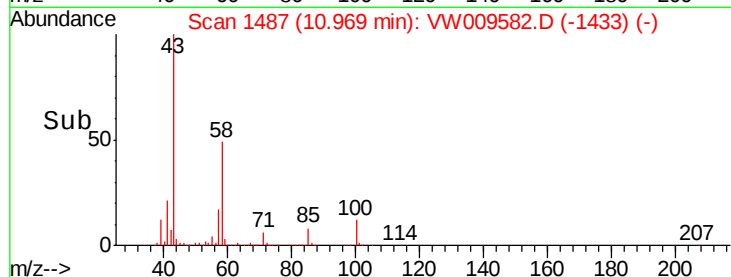
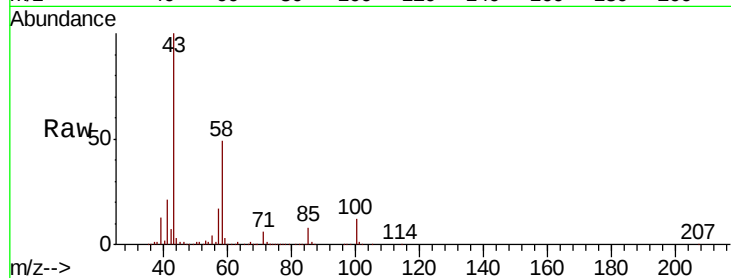
Ion Ratio Lower Upper

43 100

58 48.0 39.2 58.8

57 17.8 14.2 21.2

100 10.6 8.9 13.3



#50

Dibromochloromethane

Concen: 25.637 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW009582.D

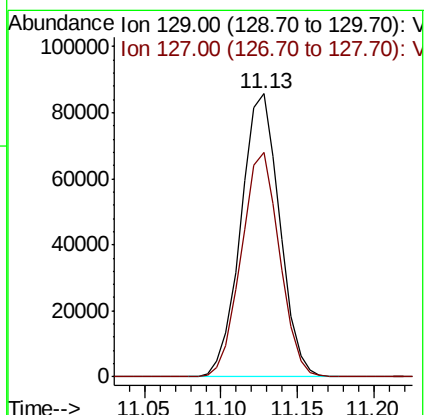
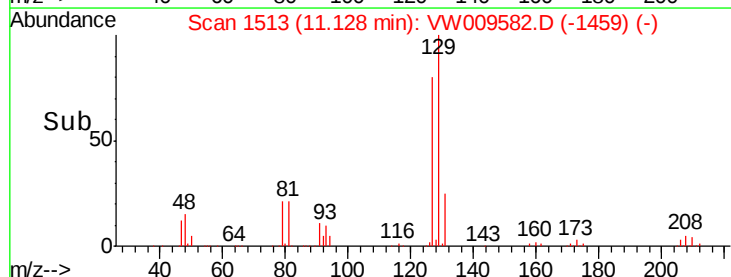
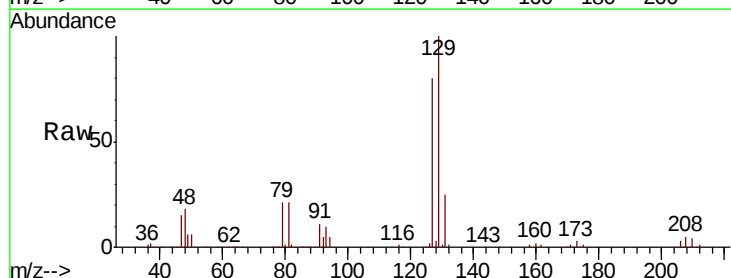
Acq: 30 Mar 2019 11:03

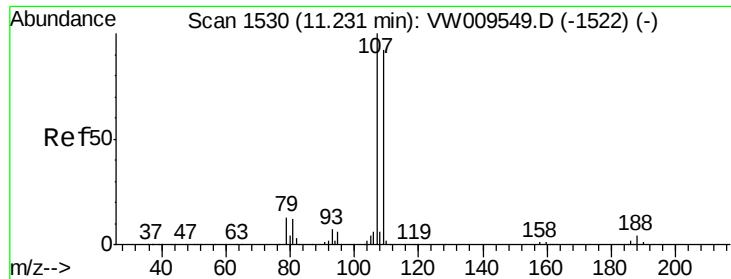
Tgt Ion: 129 Resp: 151141

Ion Ratio Lower Upper

129 100

127 79.5 56.8 105.6

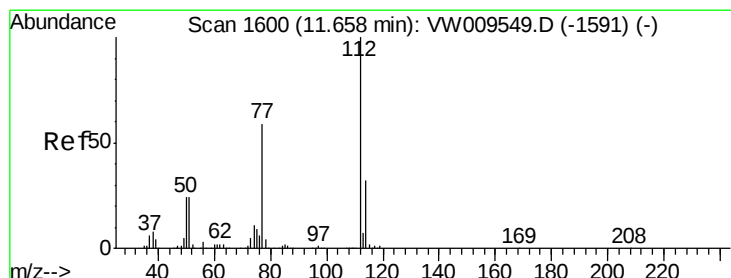
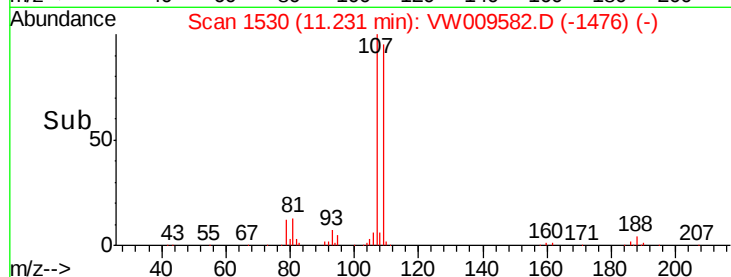
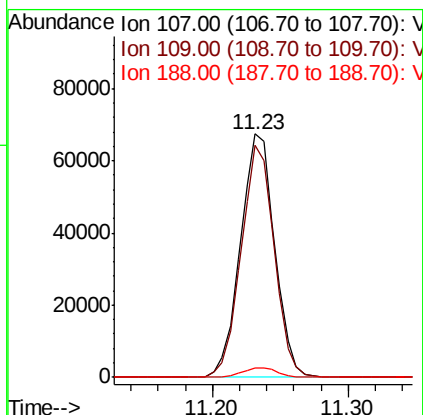
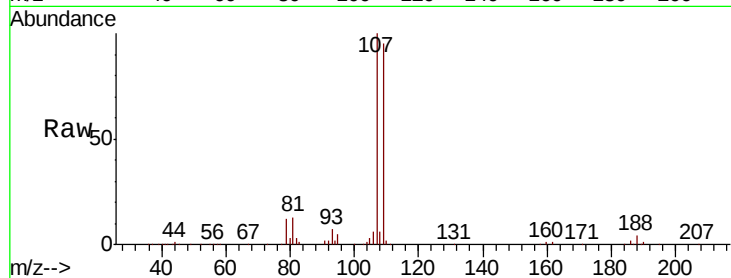




#51
1,2-Dibromoethane
Concen: 24.508 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

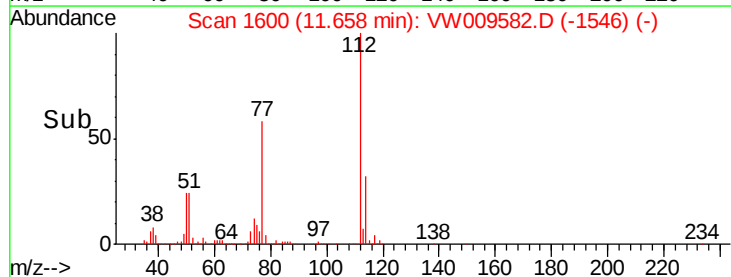
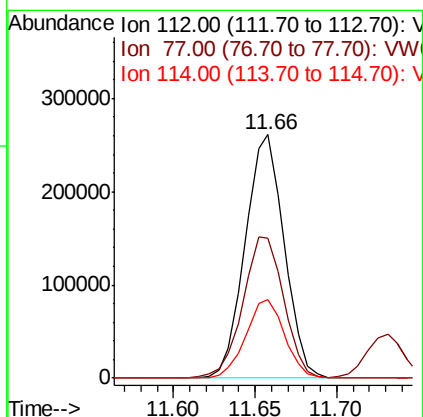
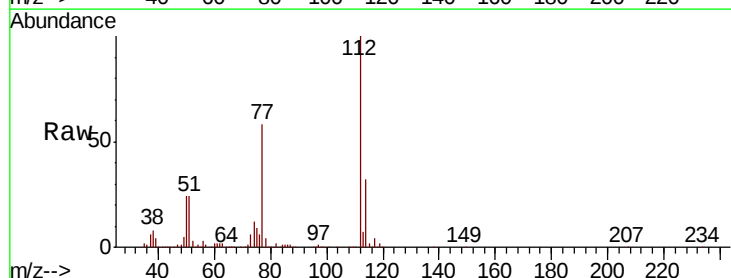
Instrument :
MSVOA_W
ClientSampleId :
VSTD02504

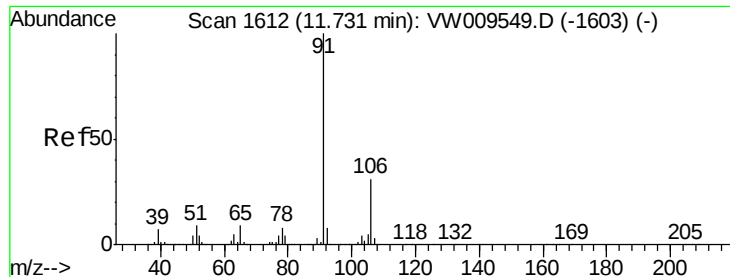
Tgt Ion:107 Resp: 118653
Ion Ratio Lower Upper
107 100
109 95.2 68.0 126.4
188 3.8 3.5 5.3



#52
Chlorobenzene
Concen: 26.575 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Tgt Ion:112 Resp: 434738
Ion Ratio Lower Upper
112 100
77 57.7 45.7 68.5
114 32.3 22.8 42.4

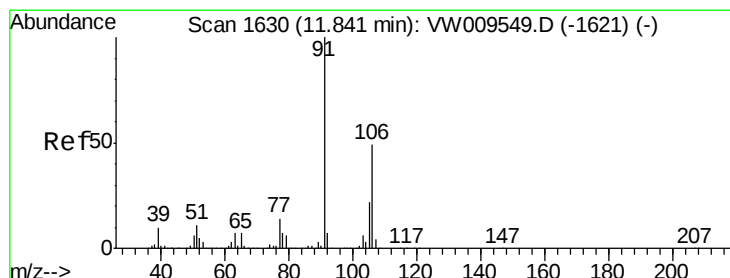
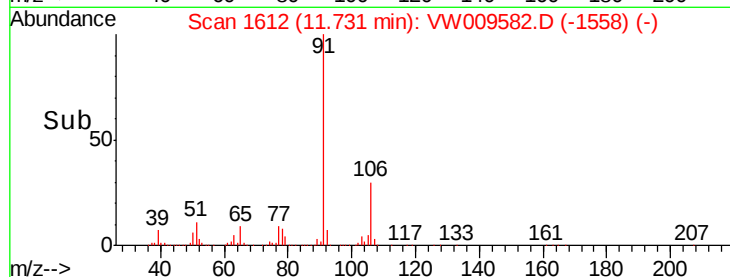
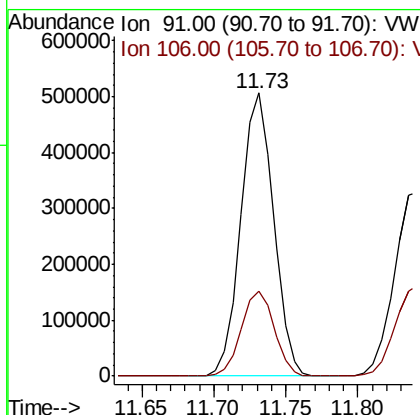
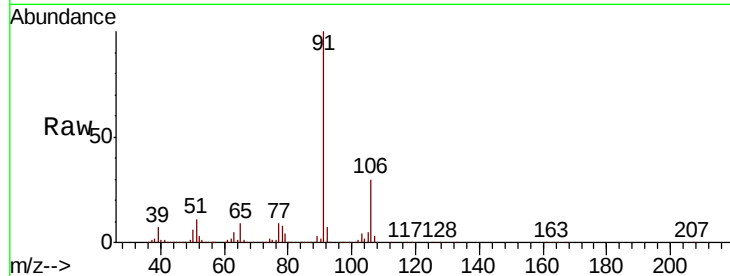




#53
Ethylbenzene
Concen: 27.908 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

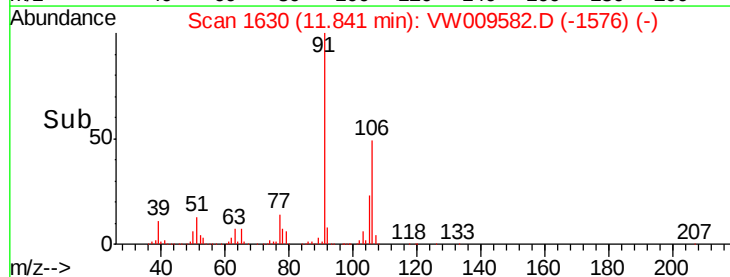
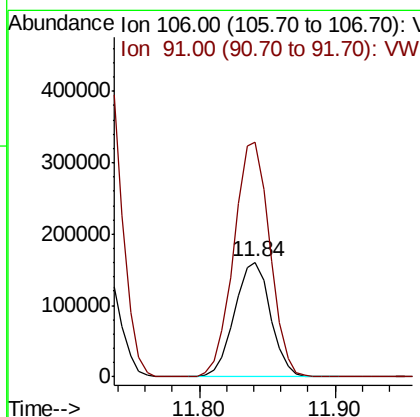
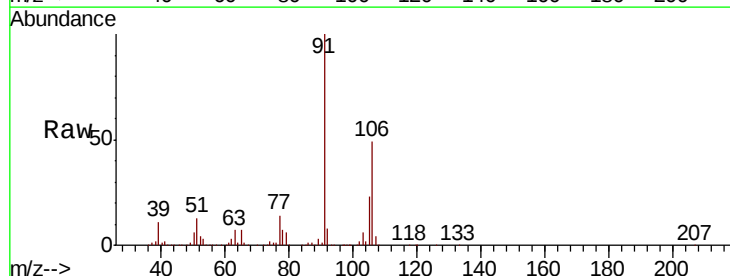
Instrument :
MSVOA_W
ClientSampleId :
VSTD02504

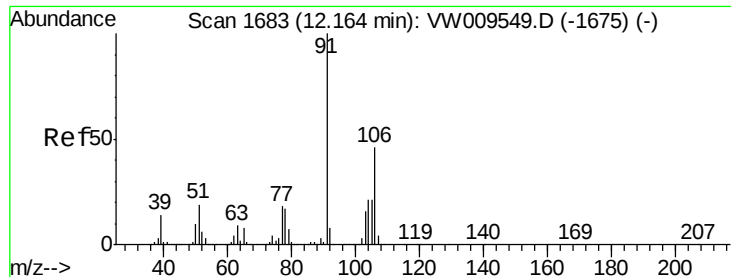
Tgt Ion: 91 Resp: 800291
Ion Ratio Lower Upper
91 100
106 30.1 21.0 39.0



#54
m,p-Xylene
Concen: 27.163 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW009582.D
Acq: 30 Mar 2019 11:03

Tgt Ion: 106 Resp: 295932
Ion Ratio Lower Upper
106 100
91 204.0 138.4 257.0





#55

o-xylene

Concen: 26.390 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampled :

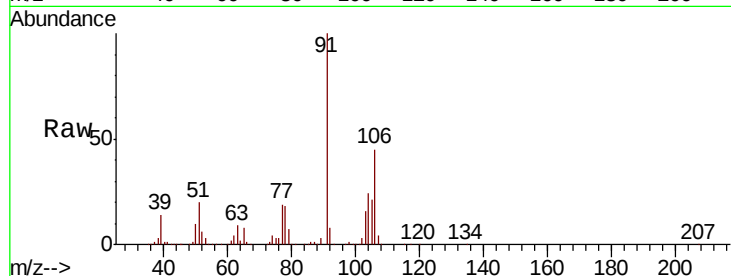
VSTD02504

Tgt Ion:106 Resp: 280481

Ion Ratio Lower Upper

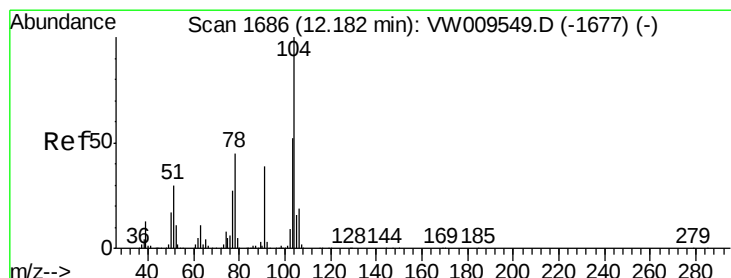
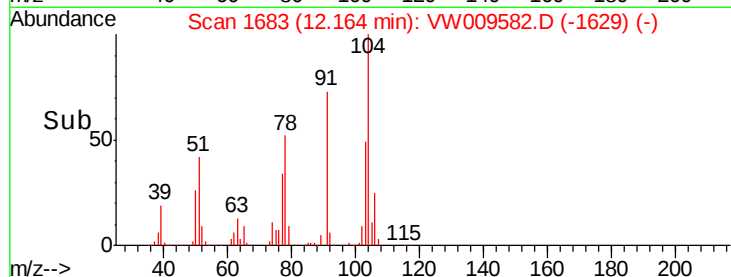
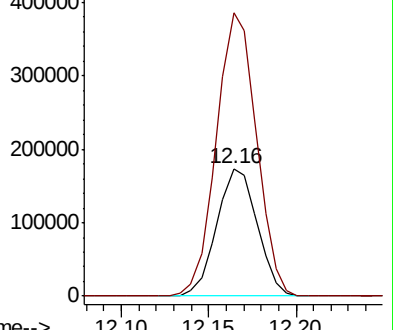
106 100

91 221.6 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 27.419 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009582.D

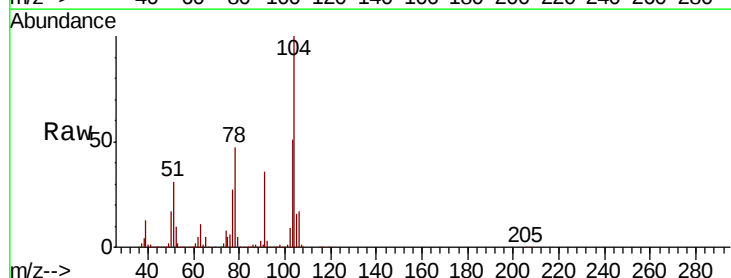
Acq: 30 Mar 2019 11:03

Tgt Ion:104 Resp: 497225

Ion Ratio Lower Upper

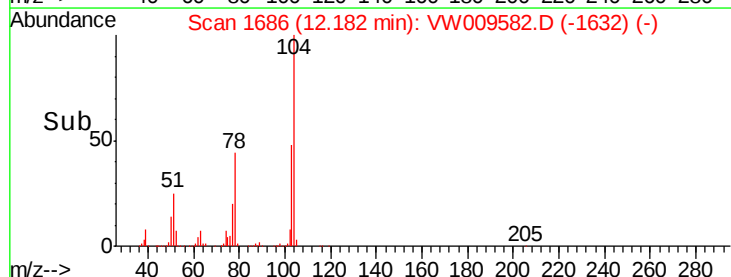
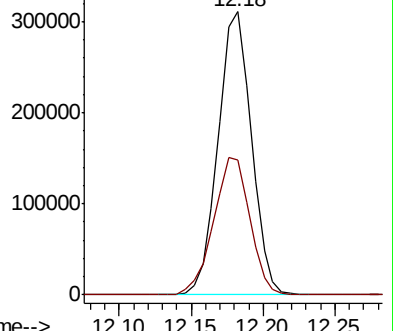
104 100

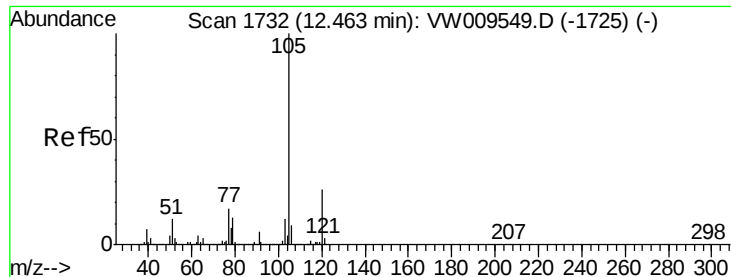
78 47.5 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 28.362 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02504

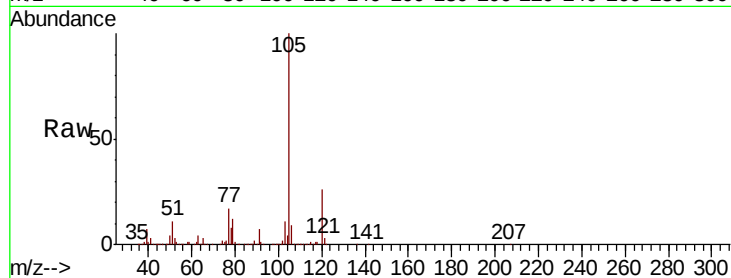
Tgt Ion: 105 Resp: 807509

Ion Ratio Lower Upper

105 100

120 26.2 21.3 31.9

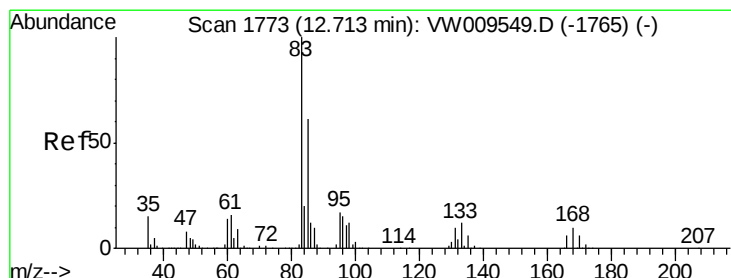
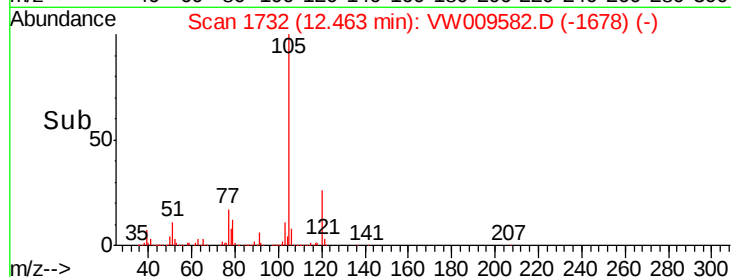
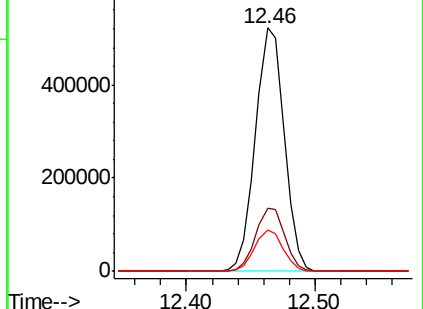
77 16.8 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 25.425 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

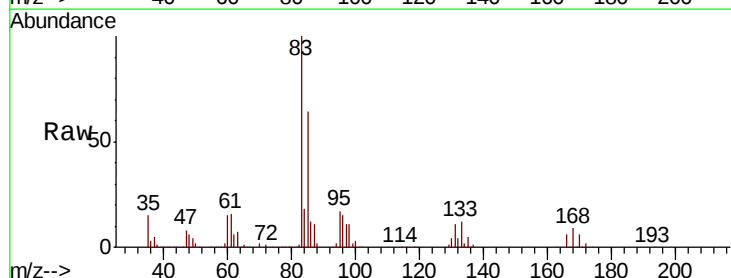
Tgt Ion: 83 Resp: 163805

Ion Ratio Lower Upper

83 100

85 64.1 45.6 84.8

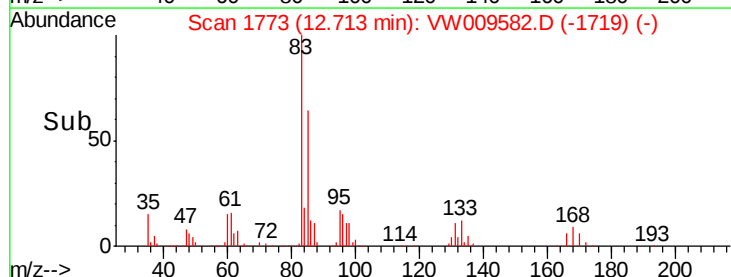
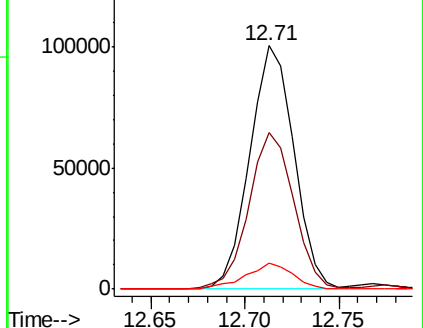
131 10.8 9.2 13.8

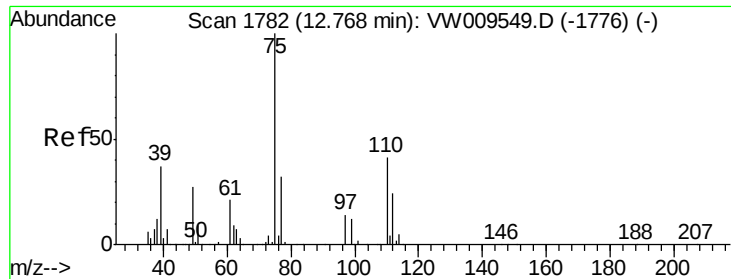


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.210 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

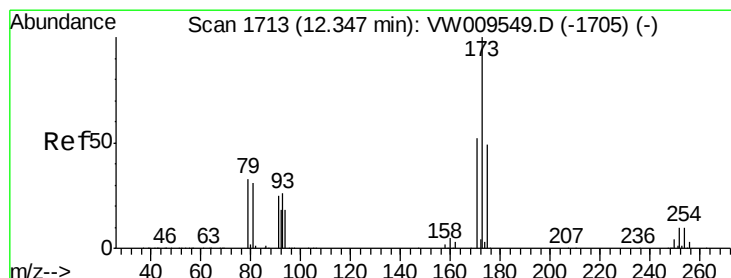
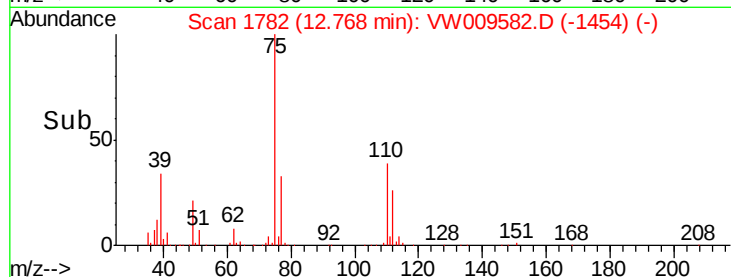
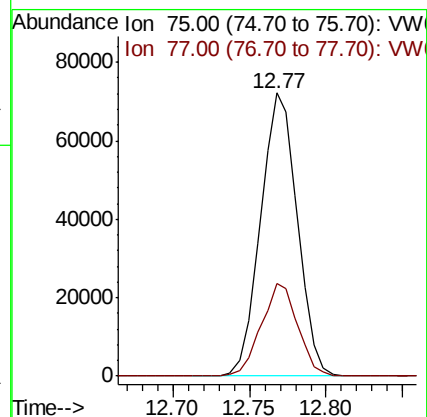
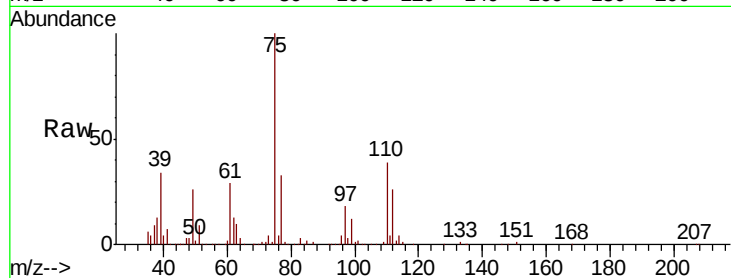
VSTD02504

Tgt Ion: 75 Resp: 120541

Ion Ratio Lower Upper

75 100

77 32.5 26.2 39.2



#62

Bromoform

Concen: 23.902 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

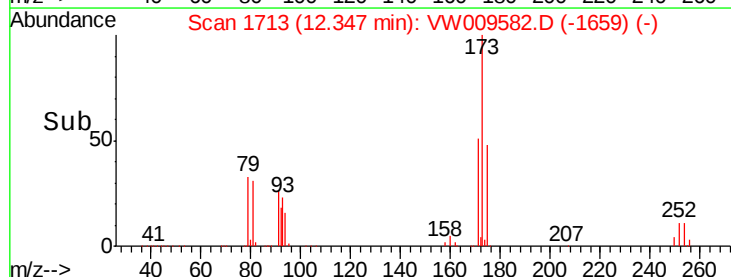
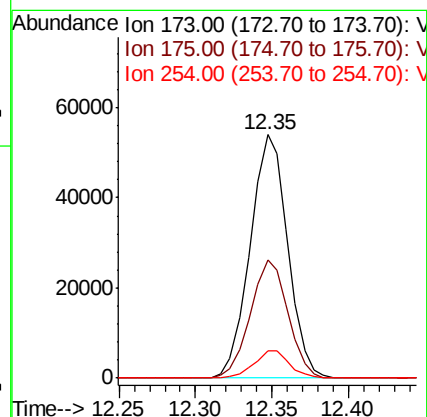
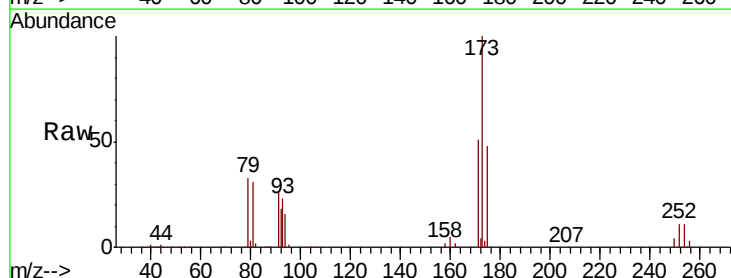
Tgt Ion: 173 Resp: 92002

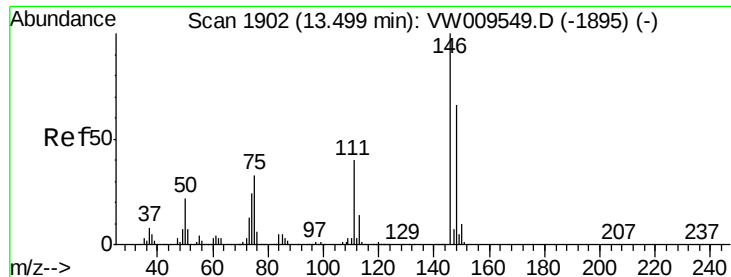
Ion Ratio Lower Upper

173 100

175 48.6 39.7 59.5

254 10.5 8.5 12.7

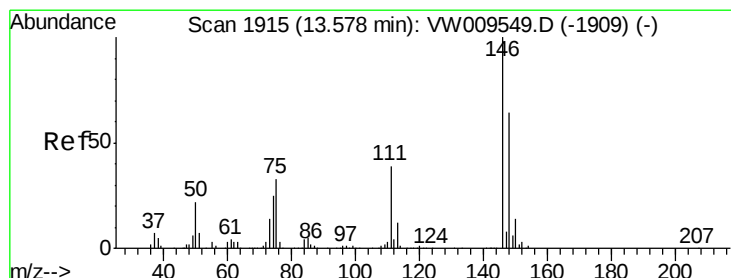
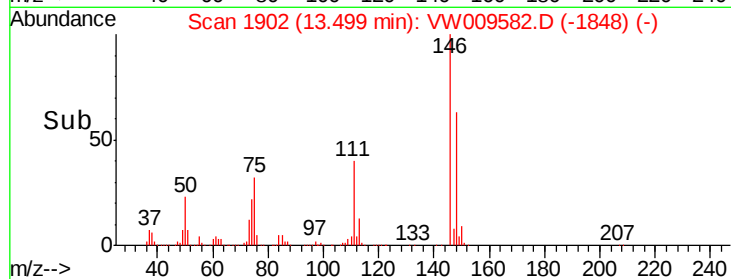
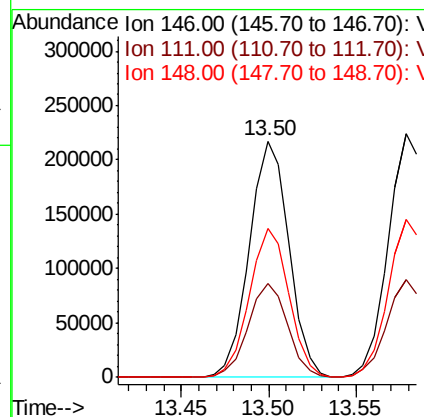
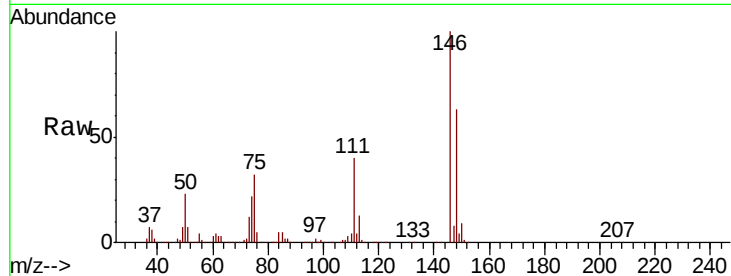




#63
 1,3-Dichlorobenzene
 Concen: 25.332 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

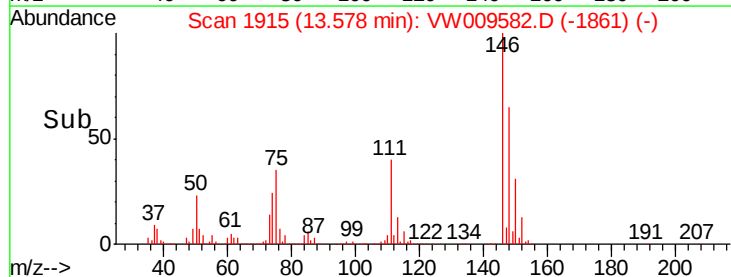
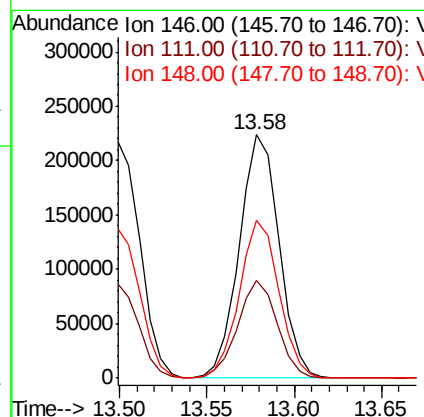
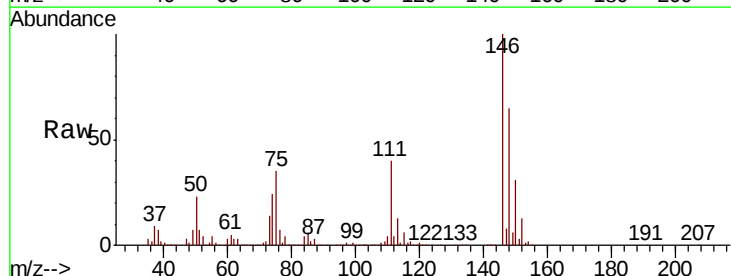
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02504

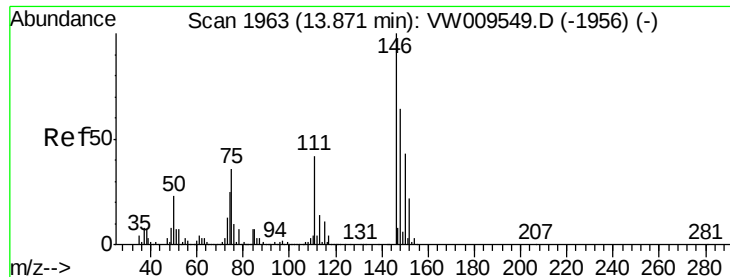
Tgt Ion:146 Resp: 343935
 Ion Ratio Lower Upper
 146 100
 111 39.9 26.9 49.9
 148 63.0 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 25.242 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Tgt Ion:146 Resp: 354326
 Ion Ratio Lower Upper
 146 100
 111 40.1 27.8 51.6
 148 65.0 46.3 86.1

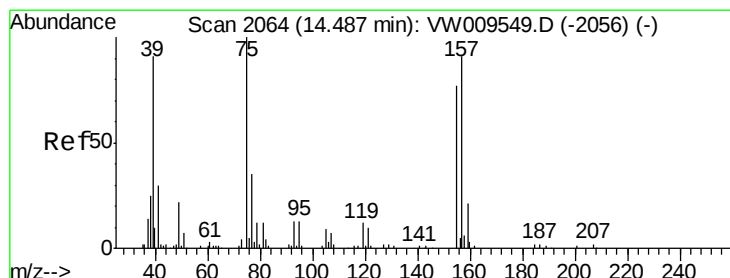
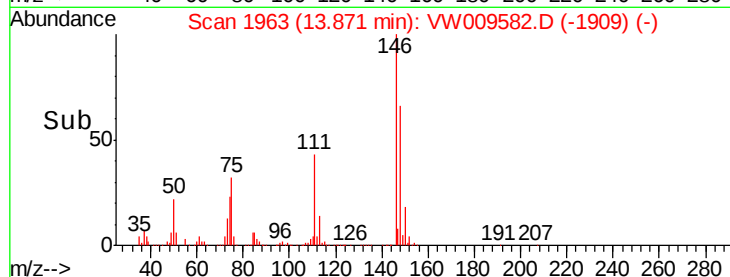
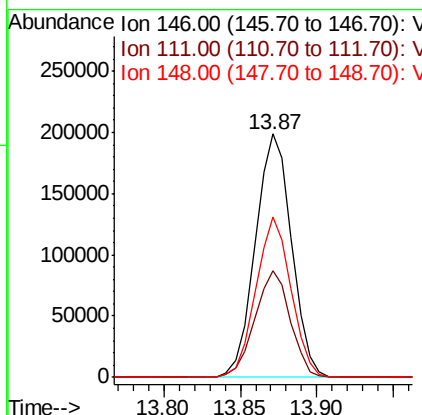
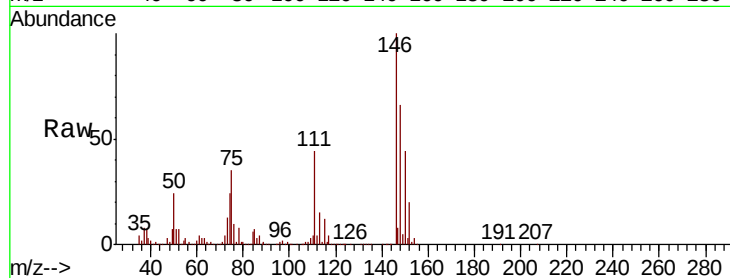




#65
 1,2-Dichlorobenzene
 Concen: 25.215 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

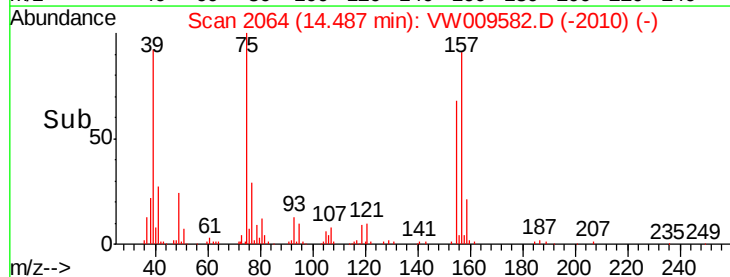
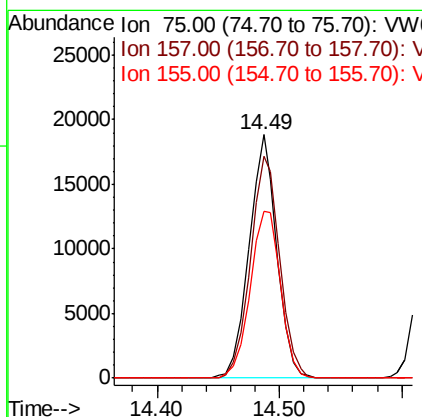
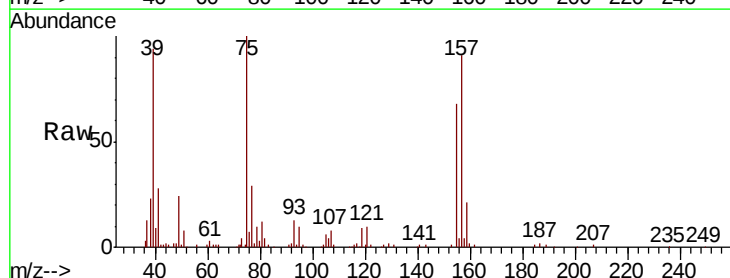
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02504

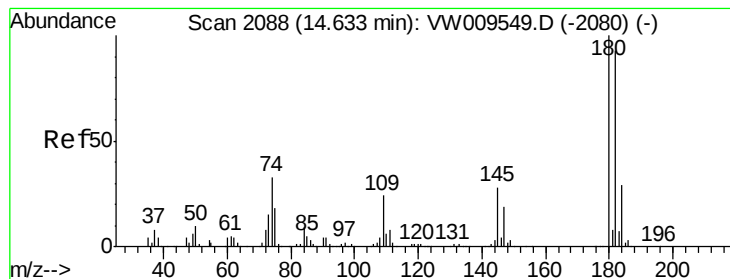
Tgt Ion: 146 Resp: 326481
 Ion Ratio Lower Upper
 146 100
 111 43.6 33.5 50.3
 148 65.7 50.2 75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.244 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW009582.D
 Acq: 30 Mar 2019 11:03

Tgt Ion: 75 Resp: 29496
 Ion Ratio Lower Upper
 75 100
 157 91.4 89.0 133.4
 155 68.4 64.2 96.2





#67

1,3,5-Trichlorobenzene

Concen: 25.433 ug/L

RT: 14.63 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02504

Tgt Ion:180 Resp: 269327

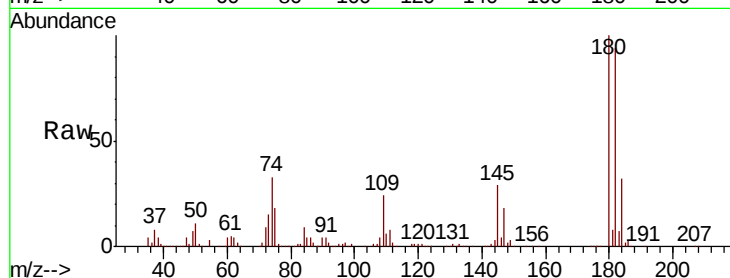
Ion Ratio Lower Upper

180 100

182 93.8 76.1 114.1

184 30.6 23.8 35.6

145 29.8 23.4 35.2

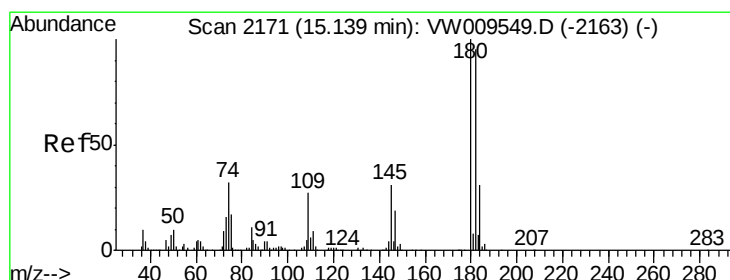
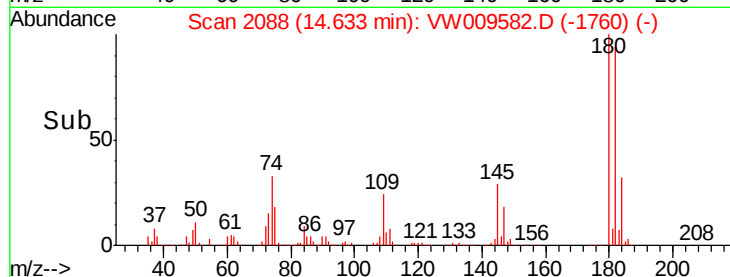
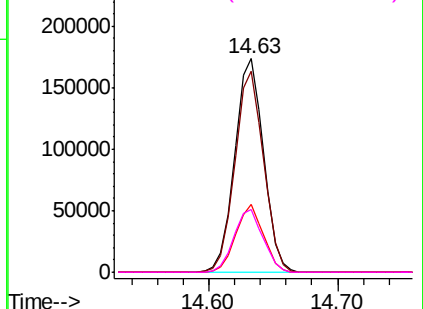


Abundance Ion 180.00 (179.70 to 180.70): V

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: 24.291 ug/L

RT: 15.14 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

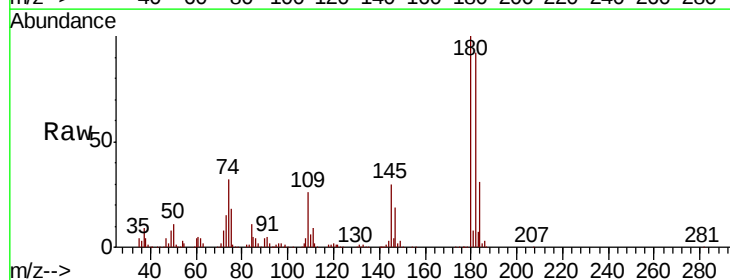
Tgt Ion:180 Resp: 216072

Ion Ratio Lower Upper

180 100

182 94.1 75.5 113.3

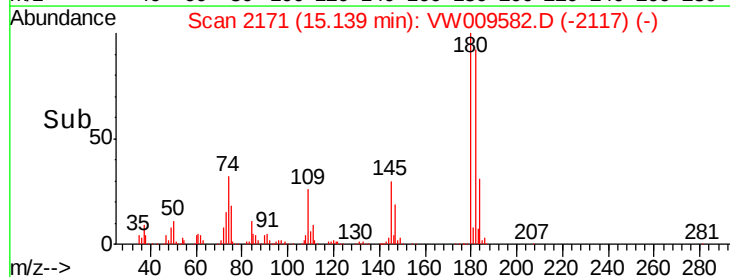
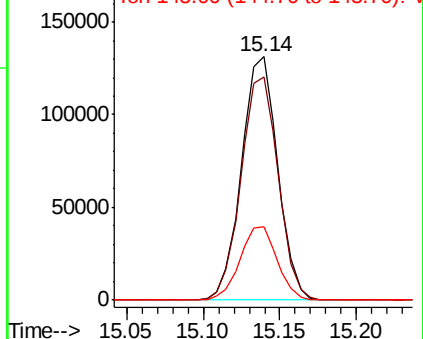
145 30.9 24.1 36.1

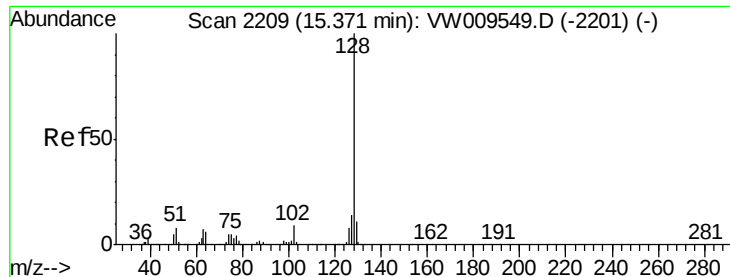


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 23.428 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

Instrument :

MSVOA_W

ClientSampleId :

VSTD02504

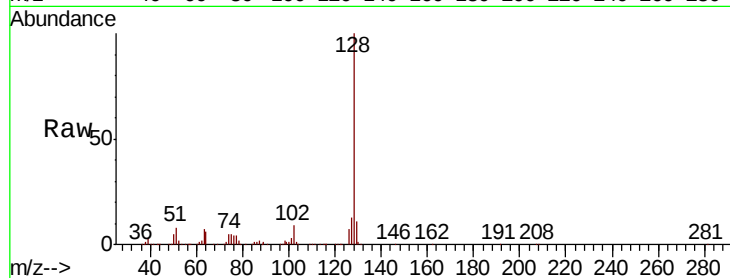
Tgt Ion:128 Resp: 432057

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

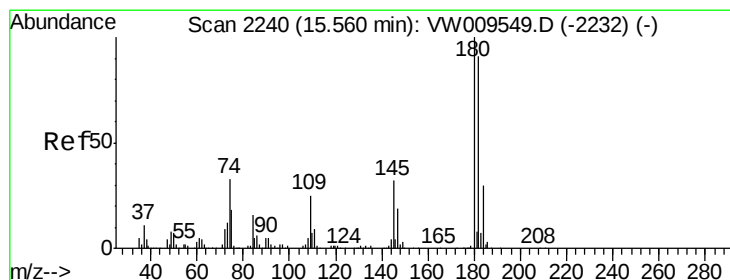
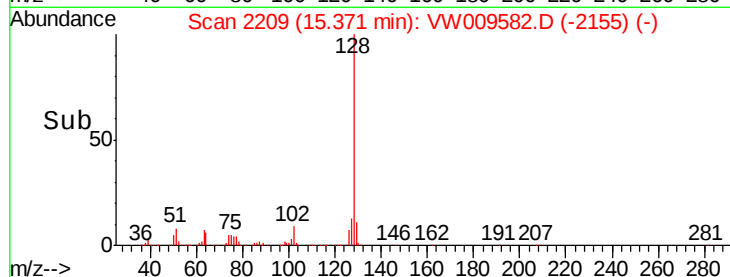
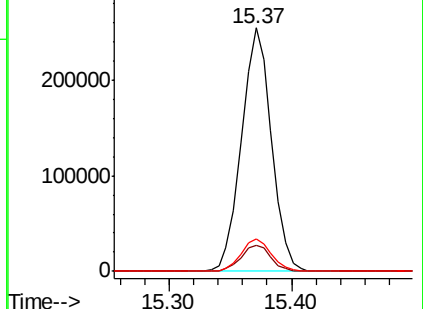
127 13.5 11.1 16.7



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: 24.762 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW009582.D

Acq: 30 Mar 2019 11:03

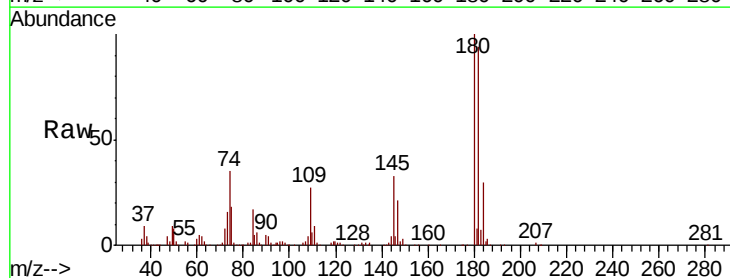
Tgt Ion:180 Resp: 206303

Ion Ratio Lower Upper

180 100

182 94.4 77.2 115.8

145 33.0 25.8 38.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

