

Data File : VW014380.D
Acq On : 16 Dec 2019 20:12
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

Quant Time: Dec 17 07:32:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 17 07:27:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	990556	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	904021	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	442649	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	302893	20.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.76%
7) Chloroethane-d5	2.88	69	257315	23.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.28%
10) 1,1-Dichloroethene-d2	4.02	63	595061	22.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.84%
20) 2-Butanone-d5	7.07	46	285195	72.96	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	145.92%#
24) Chloroform-d	7.64	84	640667	25.40	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.60%
26) 1,2-Dichloroethane-d4	8.30	65	349661	26.44	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.76%
29) Benzene-d6	8.27	84	1303064	24.59	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.36%
33) 1,2-Dichloropropane-d6	9.27	67	402046	24.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.64%
37) Toluene-d8	10.32	98	1175121	24.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.12%
38) trans-1,3-Dichloropropene-	10.57	79	166341	24.32	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.28%
39) 2-Hexanone-d5	10.92	63	225424	69.55	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	139.10%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	388453	29.24	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	116.96%
61) 1,2-Dichlorobenzene-d4	13.85	152	408238	24.14	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.56%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	198800	21.101	ug/L 100
3) Chloromethane	2.21	50	198164	20.923	ug/L 98
5) Vinyl chloride	2.36	62	340859	24.307	ug/L 97
6) Bromomethane	2.78	94	197403	22.821	ug/L 98
8) Chloroethane	2.92	64	193364	24.135	ug/L 93
9) Trichlorofluoromethane	3.25	101	164114	23.640	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	324788	24.859	ug/L 93
12) 1,1-Dichloroethene	4.04	96	308294	23.307	ug/L 92
13) Acetone	4.11	43	244370	64.843	ug/L 99
14) Carbon disulfide	4.38	76	905841	22.328	ug/L 100
15) Methyl Acetate	4.67	43	211348	29.649	ug/L 99
16) Methylene chloride	4.91	84	342954	22.585	ug/L 95
17) Methyl tert-butyl Ether	5.42	73	437450	25.078	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	325442	22.974	ug/L 93
19) 1,1-Dichloroethane	6.21	63	613623	24.110	ug/L 99
21) 2-Butanone	7.17	43	317423	62.736	ug/L 95
22) cis-1,2-Dichloroethene	7.17	96	350659	23.264	ug/L 95

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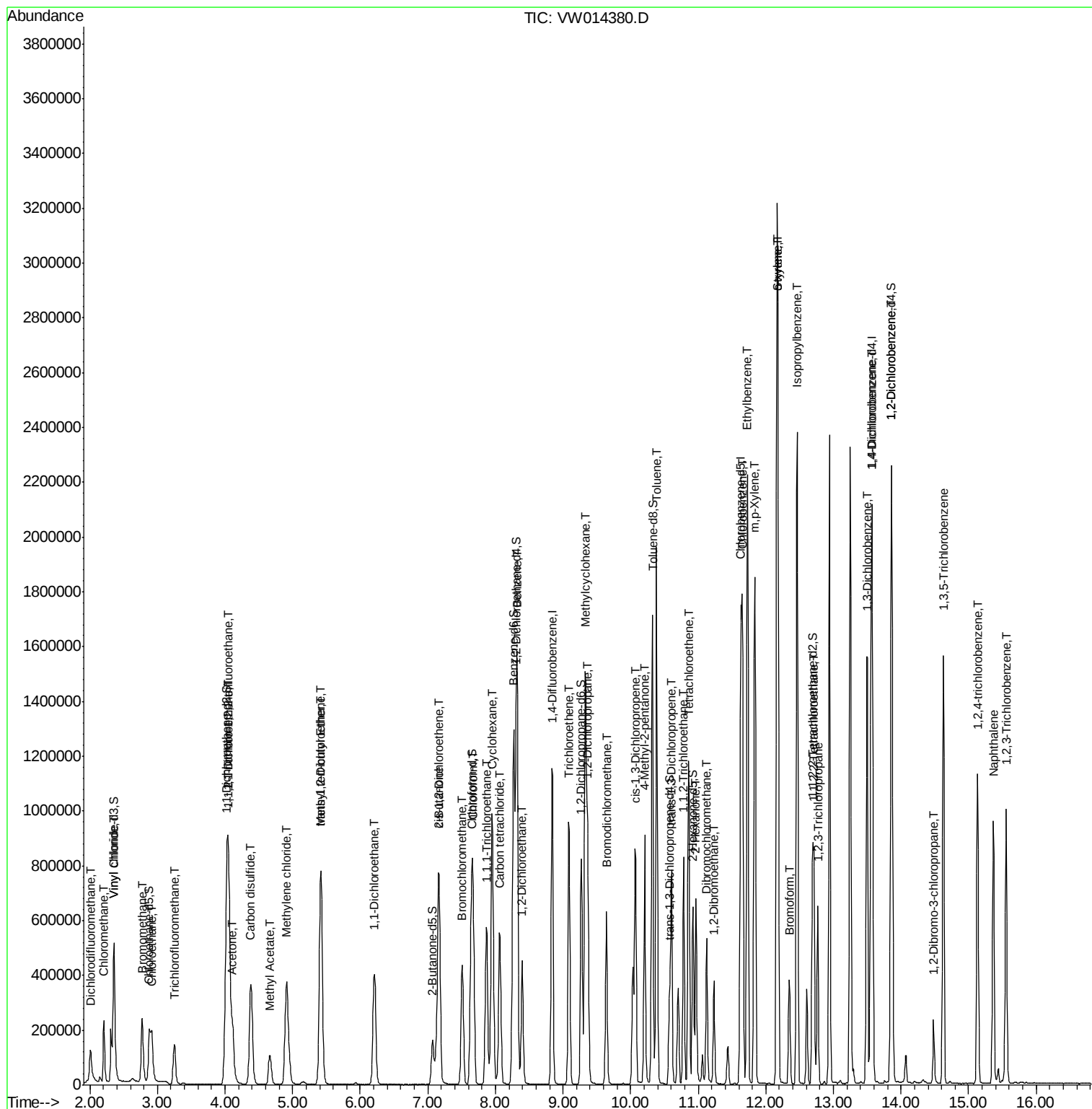
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	158796	22.903	ug/L	87
25) Chloroform	7.67	83	593216	23.986	ug/L	99
27) 1,2-Dichloroethane	8.40	62	407133	25.140	ug/L	96
30) Cyclohexane	7.95	56	563462	24.971	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	465759	25.654	ug/L	97
32) Carbon tetrachloride	8.07	117	427610	24.823	ug/L	100
34) Benzene	8.32	78	1385784	24.210	ug/L	100
35) Trichloroethene	9.09	95	346813	23.680	ug/L	95
36) Methylcyclohexane	9.33	83	611096	24.831	ug/L	95
40) 1,2-Dichloropropane	9.37	63	350058	23.805	ug/L	99
41) Bromodichloromethane	9.64	83	419589	23.479	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	515594	23.412	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	590521	60.897	ug/L	97
44) Toluene	10.38	91	1451128	24.181	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	429178	24.075	ug/L	96
46) 1,1,2-Trichloroethane	10.79	97	269412	24.449	ug/L	98
47) Tetrachloroethene	10.86	164	283796	23.249	ug/L	95
49) 2-Hexanone	10.96	43	436774	63.267	ug/L	98
50) Dibromochloromethane	11.13	129	293809	23.756	ug/L	96
51) 1,2-Dibromoethane	11.23	107	255866	24.513	ug/L	97
52) Chlorobenzene	11.65	112	886956	22.869	ug/L	93
53) Ethylbenzene	11.73	91	1581843	24.293	ug/L	99
54) m,p-Xylene	11.84	106	601665	24.020	ug/L	97
55) o-xylene	12.16	106	565785	23.814	ug/L	100
56) Styrene	12.18	104	980055	24.113	ug/L	97
57) Isopropylbenzene	12.46	105	1527958	24.772	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.71	83	358292	26.196	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	274047	26.965	ug/L	100
62) Bromoform	12.35	173	185901	24.745	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	671458	22.569	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	685046	22.663	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	635744	22.978	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.48	75	61206	28.677	ug/L #	80
67) 1,3,5-Trichlorobenzene	14.63	180	492240	22.996	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	386115	23.138	ug/L	100
69) Naphthalene	15.36	128	818653	26.087	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	366697	23.433	ug/L	100

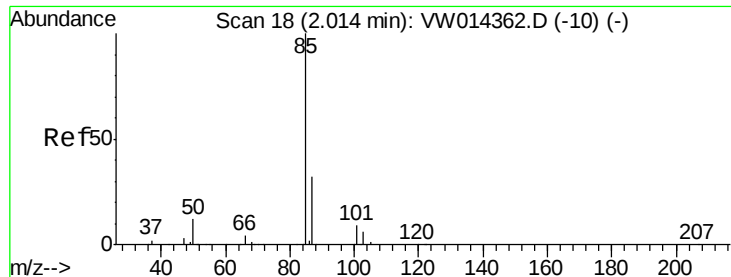
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.101 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

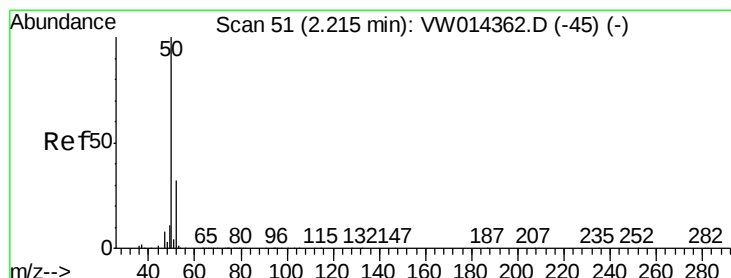
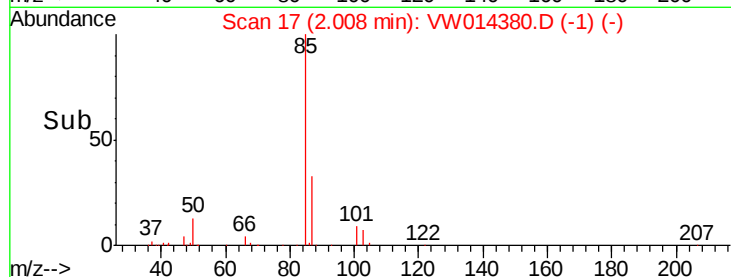
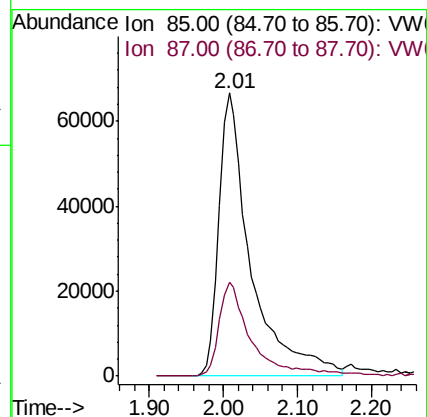
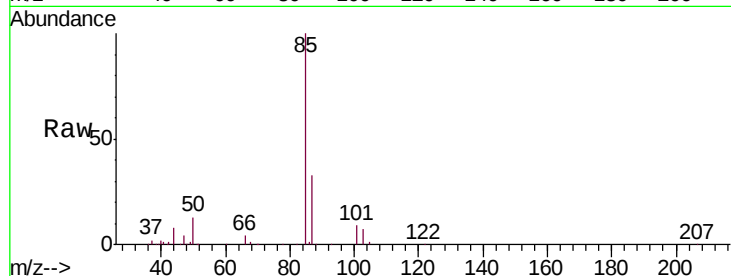
VSTD02521

Tgt Ion: 85 Resp: 198800

Ion Ratio Lower Upper

85 100

87 31.3 22.1 41.1



#3

Chloromethane

Concen: 20.923 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014380.D

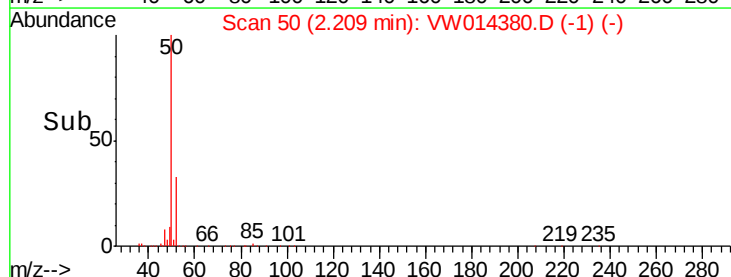
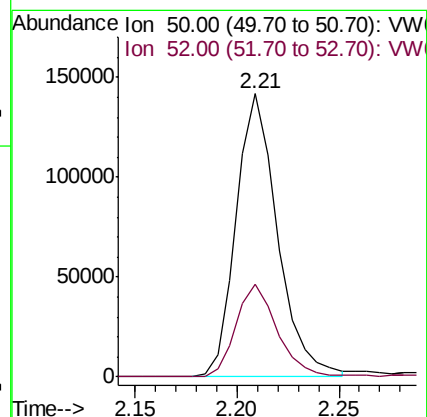
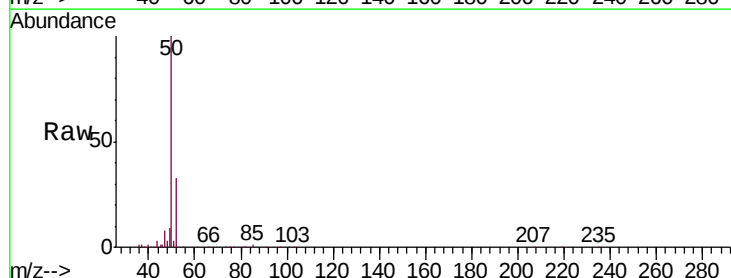
Acq: 16 Dec 2019 20:12

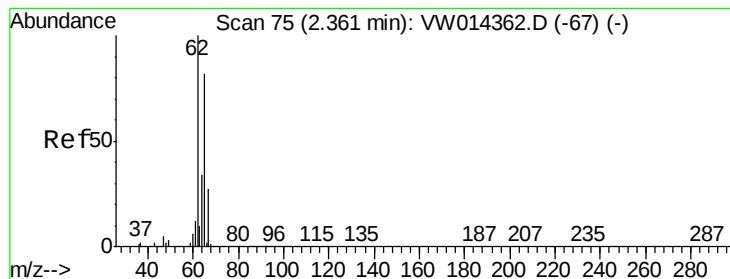
Tgt Ion: 50 Resp: 198164

Ion Ratio Lower Upper

50 100

52 32.9 23.8 44.2





#5

Vinyl chloride

Concen: 24.307 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

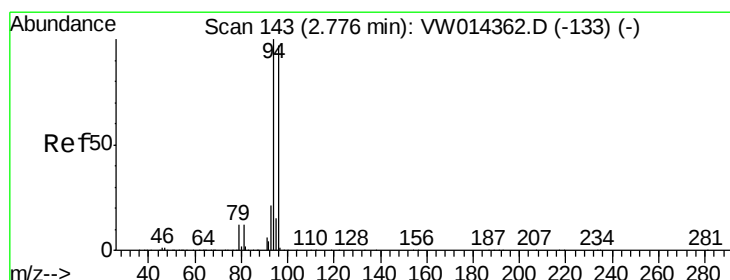
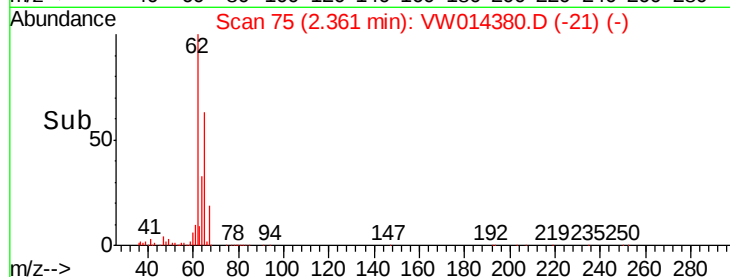
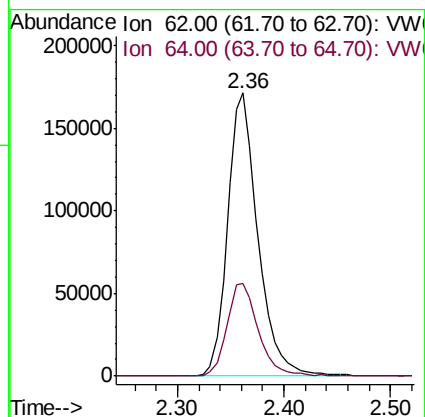
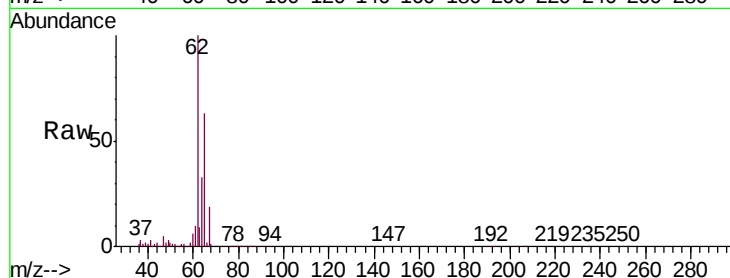
VSTD02521

Tgt Ion: 62 Resp: 340859

Ion Ratio Lower Upper

62 100

64 33.0 21.8 40.4



#6

Bromomethane

Concen: 22.821 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014380.D

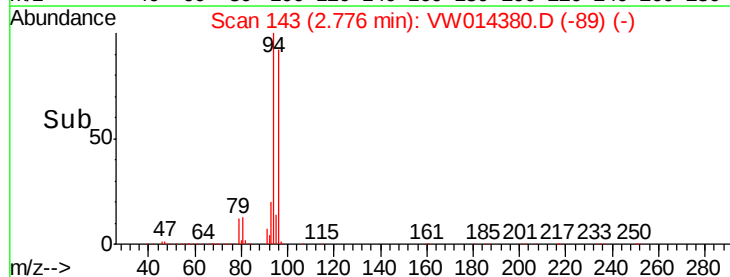
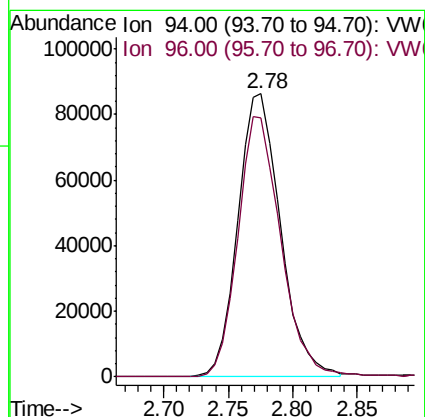
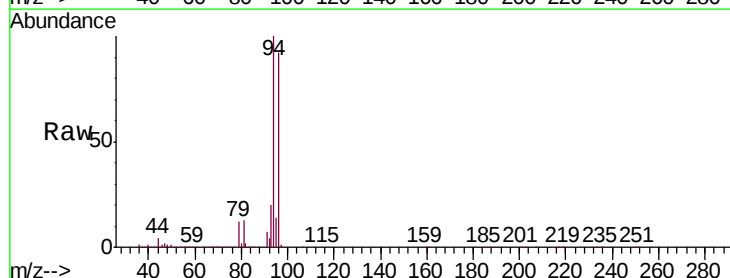
Acq: 16 Dec 2019 20:12

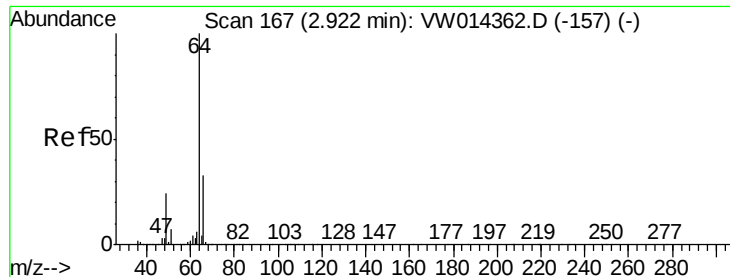
Tgt Ion: 94 Resp: 197403

Ion Ratio Lower Upper

94 100

96 92.3 9.4 178.8





#8

Chloroethane

Concen: 24.135 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

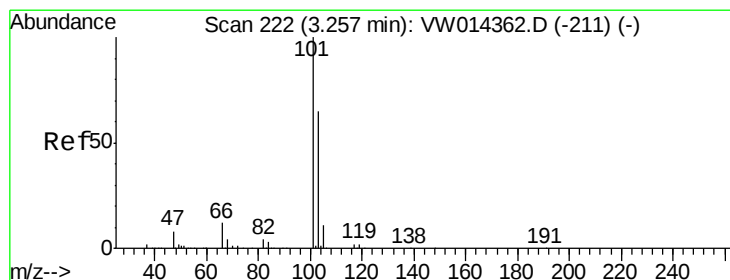
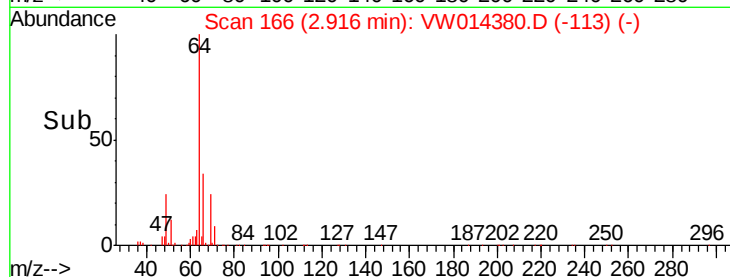
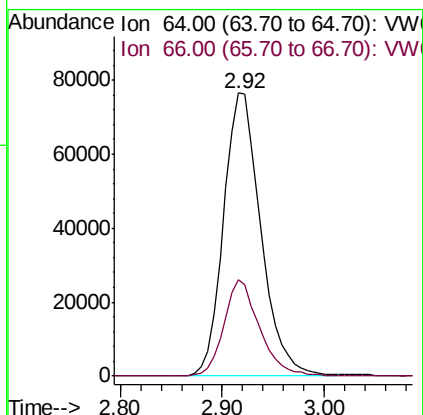
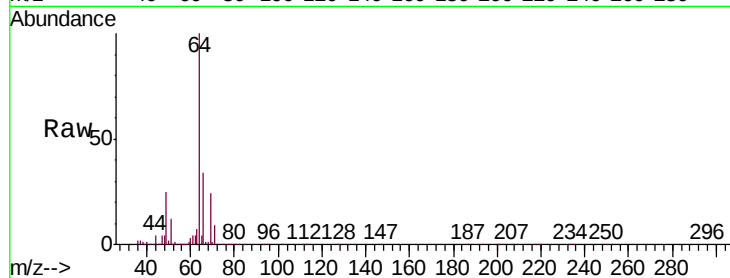
VSTD02521

Tgt Ion: 64 Resp: 193364

Ion Ratio Lower Upper

64 100

66 34.3 21.2 39.4



#9

Trichlorofluoromethane

Concen: 23.640 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014380.D

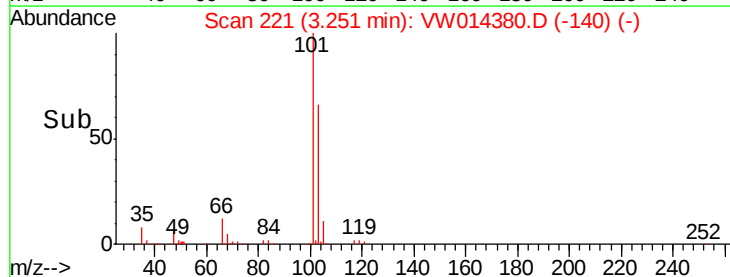
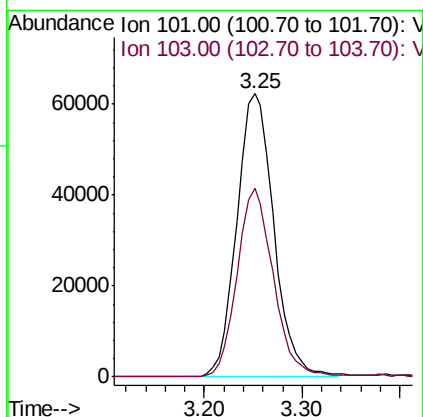
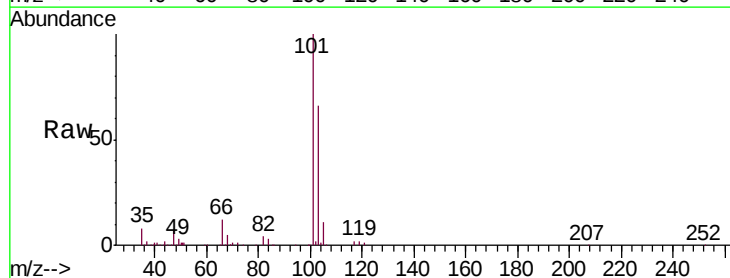
Acq: 16 Dec 2019 20:12

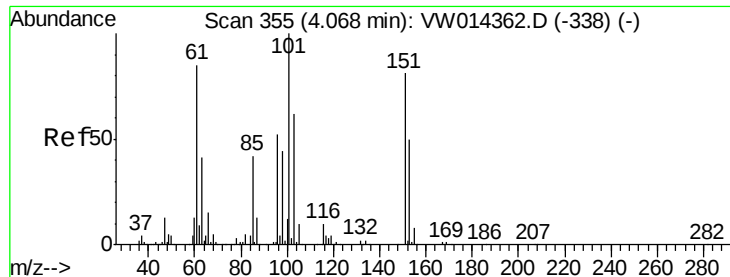
Tgt Ion: 101 Resp: 164114

Ion Ratio Lower Upper

101 100

103 65.0 45.4 84.2





#11

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

Concen: 24.859 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

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Instrument :

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ClientSampleId :

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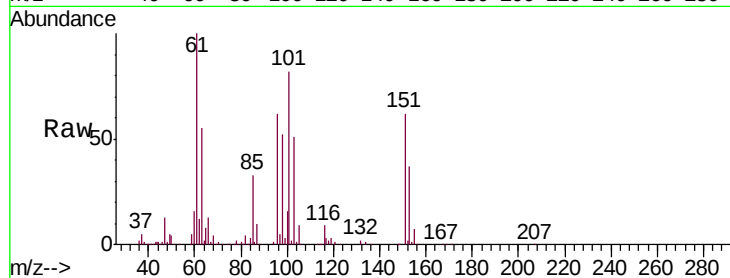
Tgt Ion:101 Resp: 324788

Ion Ratio Lower Upper

101 100

85 42.3 31.4 47.2

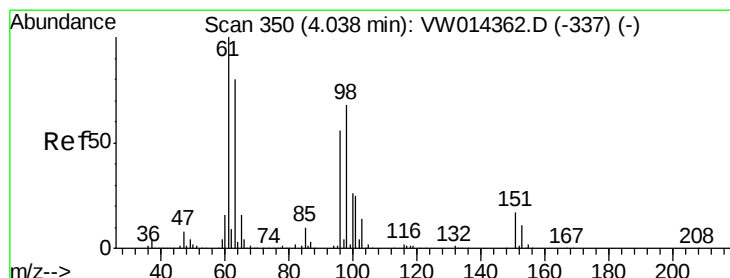
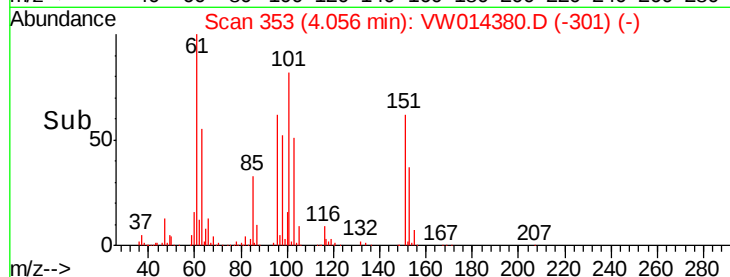
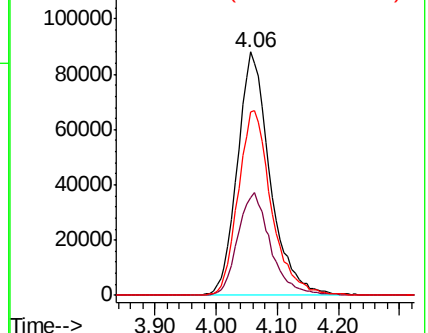
151 76.3 66.9 100.3



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: 23.307 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

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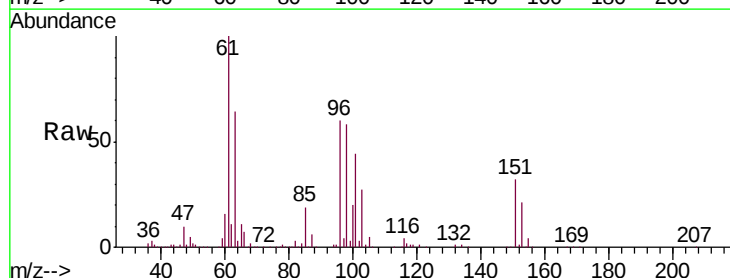
Tgt Ion: 96 Resp: 308294

Ion Ratio Lower Upper

96 100

61 167.1 109.8 204.0

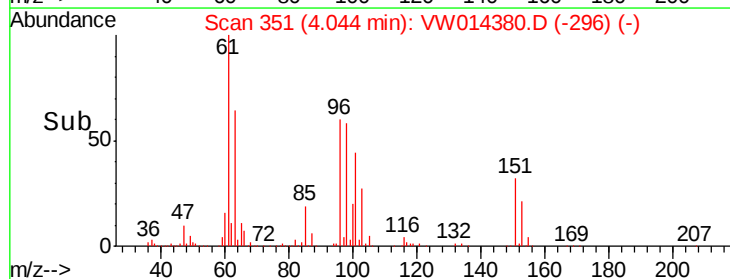
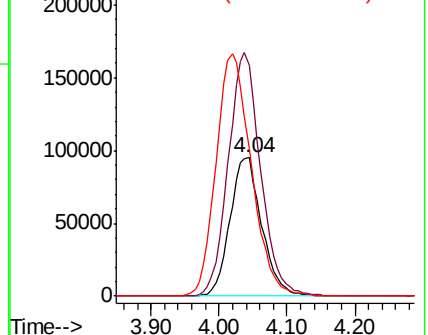
63 106.6 80.7 149.9

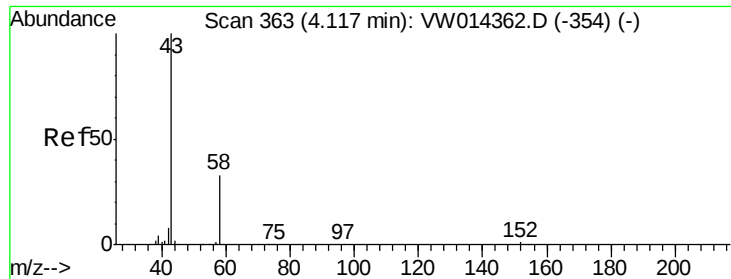


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

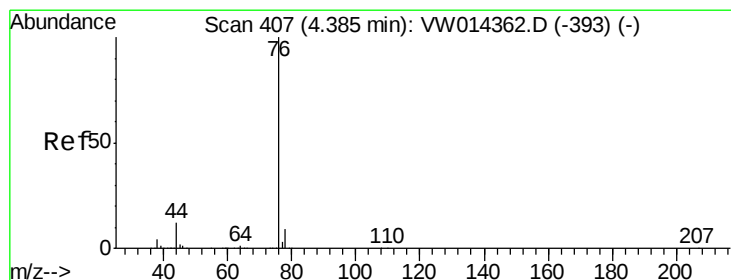
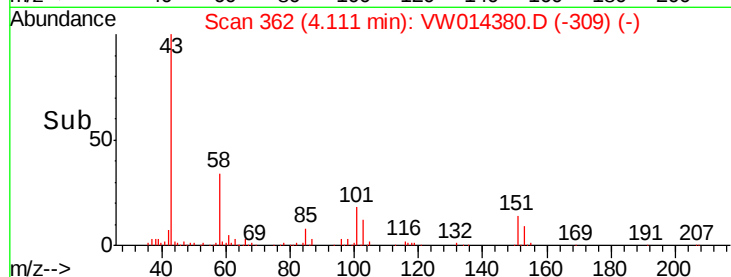
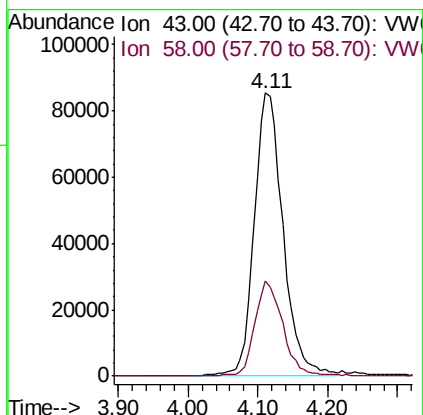
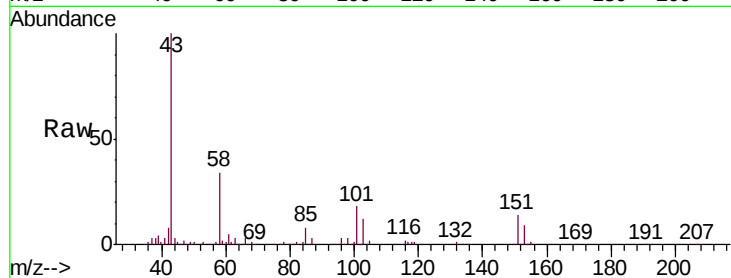




#13
Acetone
Concen: 64.843 ug/L
RT: 4.11 min Scan# 362
Delta R.T. -0.01 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

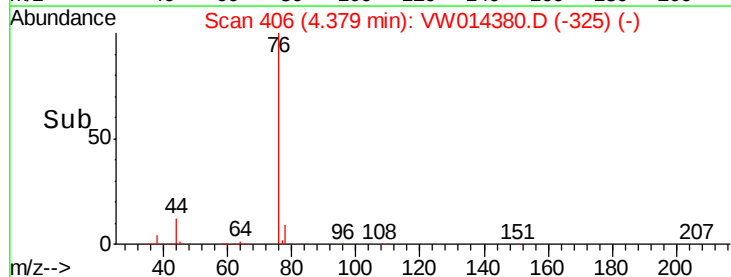
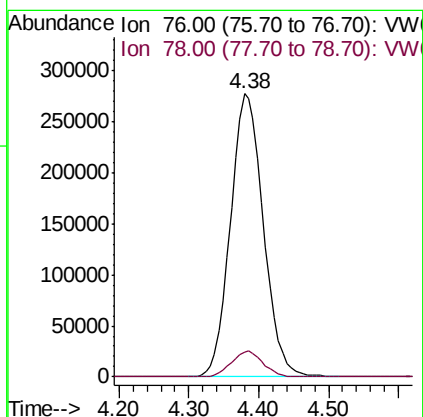
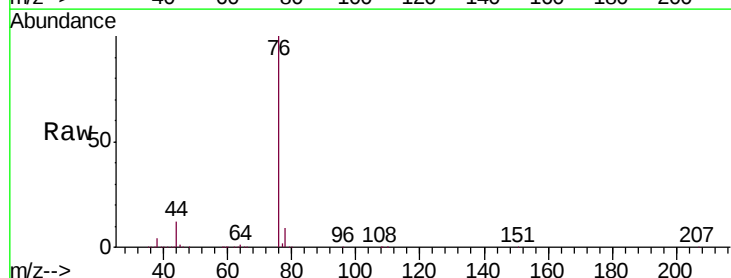
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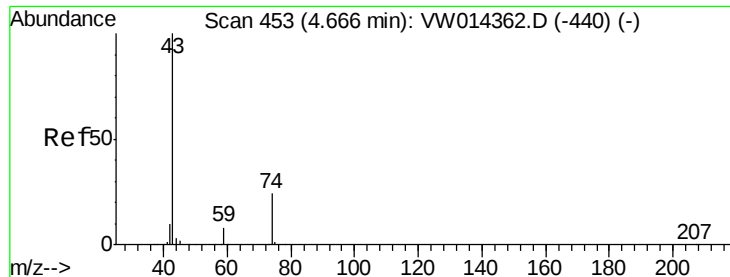
Tgt Ion: 43 Resp: 244370
Ion Ratio Lower Upper
43 100
58 32.2 0.0 65.4



#14
Carbon disulfide
Concen: 22.328 ug/L
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion: 76 Resp: 905841
Ion Ratio Lower Upper
76 100
78 8.8 7.2 10.8

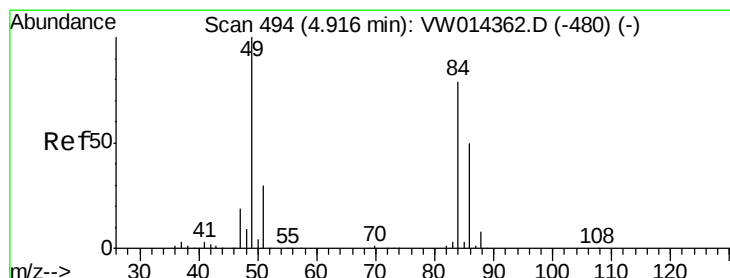
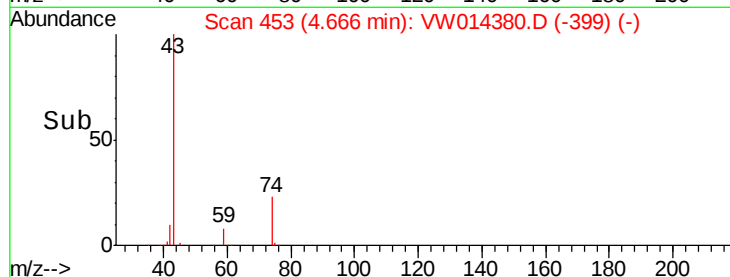
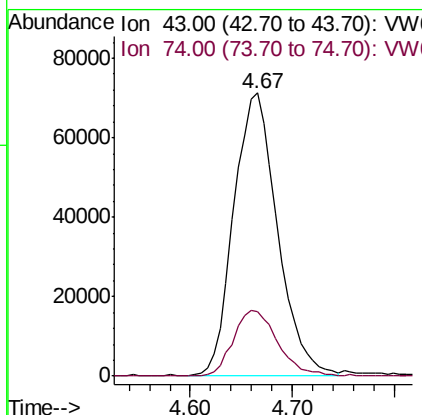
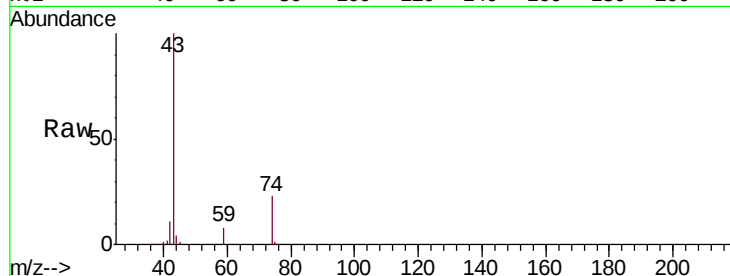




#15
Methyl Acetate
Concen: 29.649 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

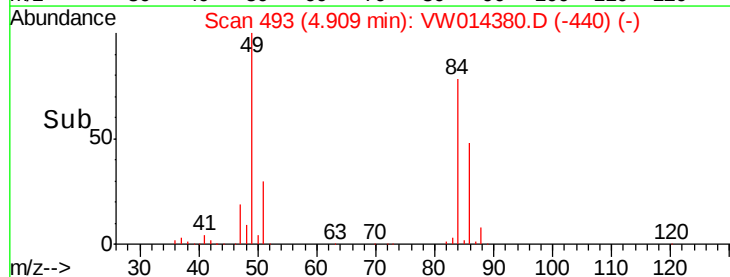
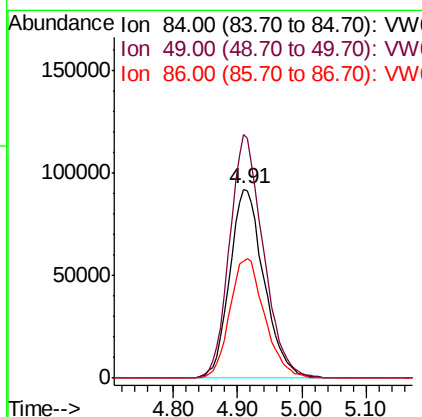
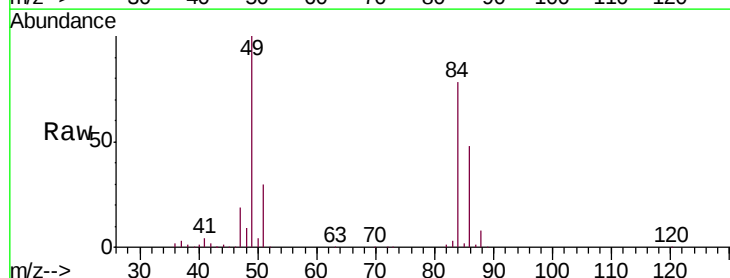
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

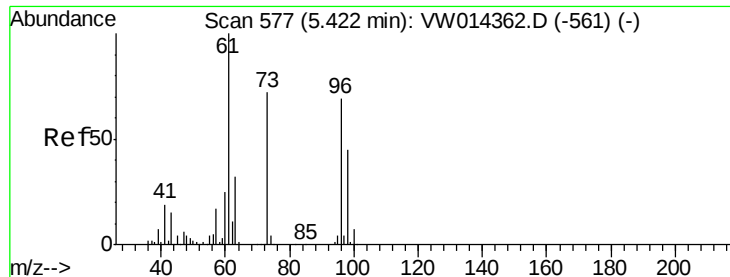
Tgt Ion: 43 Resp: 211348
Ion Ratio Lower Upper
43 100
74 23.7 19.3 28.9



#16
Methylene chloride
Concen: 22.585 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion: 84 Resp: 342954
Ion Ratio Lower Upper
84 100
49 129.0 84.2 156.4
86 61.6 43.7 81.1

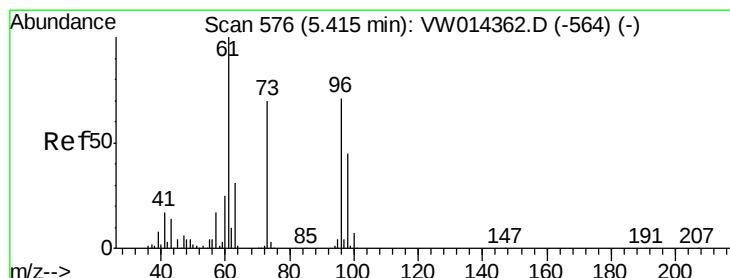
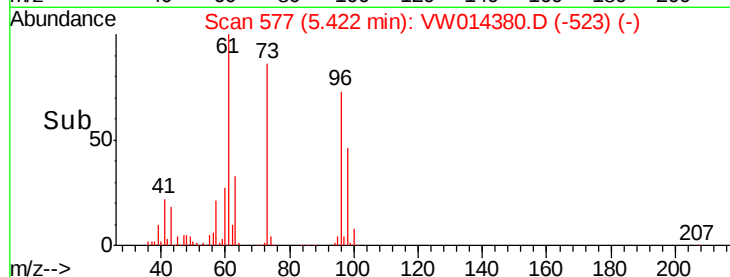
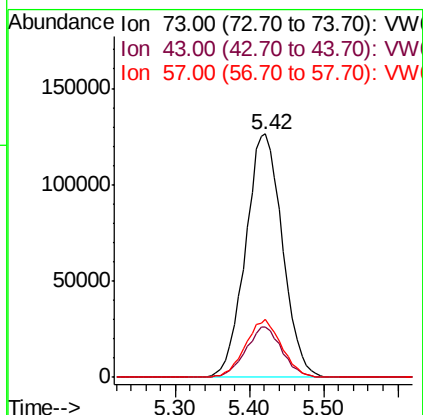
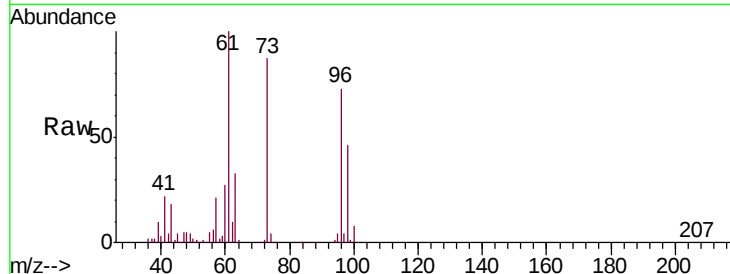




#17
Methyl tert-butyl Ether
Concen: 25.078 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

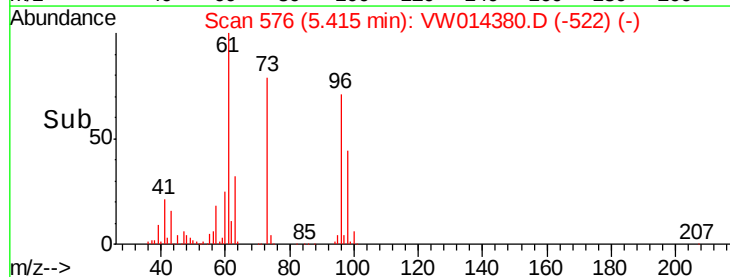
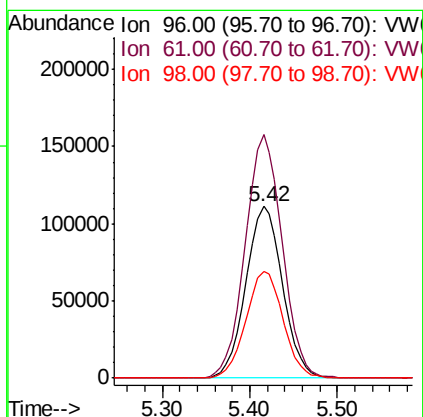
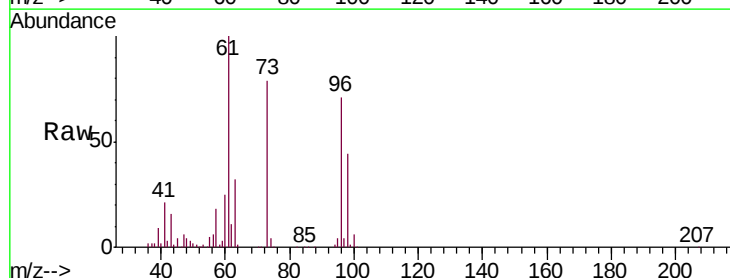
Instrument :
MSVOA_W
ClientSampled :
VSTD02521

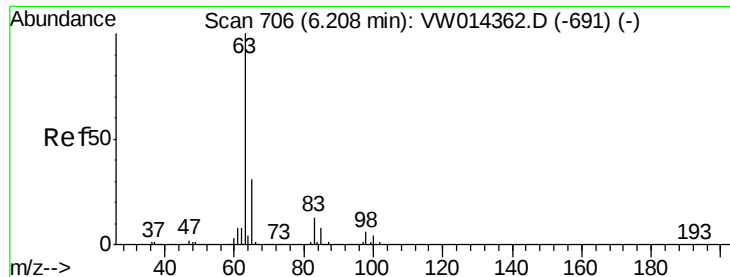
Tgt Ion: 73 Resp: 437450
Ion Ratio Lower Upper
73 100
43 20.2 15.5 23.3
57 23.4 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 22.974 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion: 96 Resp: 325442
Ion Ratio Lower Upper
96 100
61 141.7 90.6 168.2
98 62.0 42.9 79.7

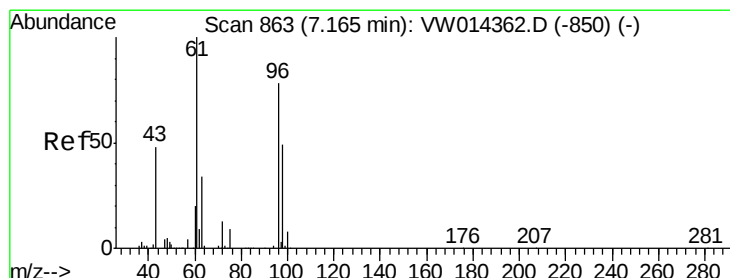
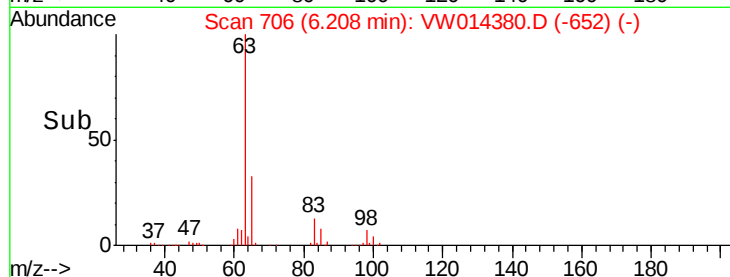
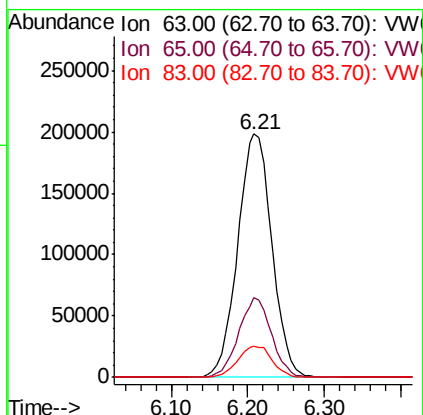
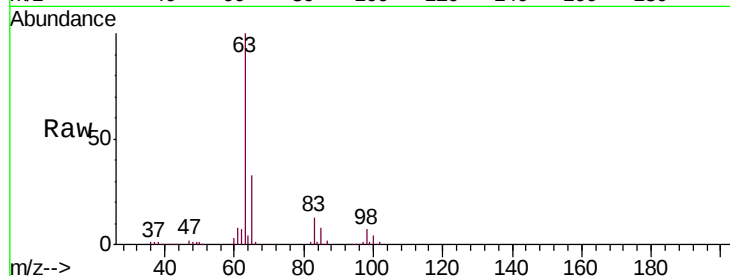




#19
 1,1-Dichloroethane
 Concen: 24.110 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

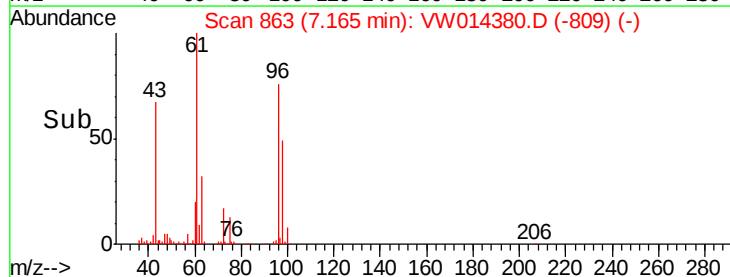
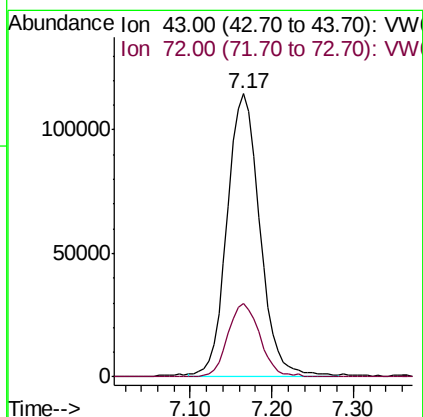
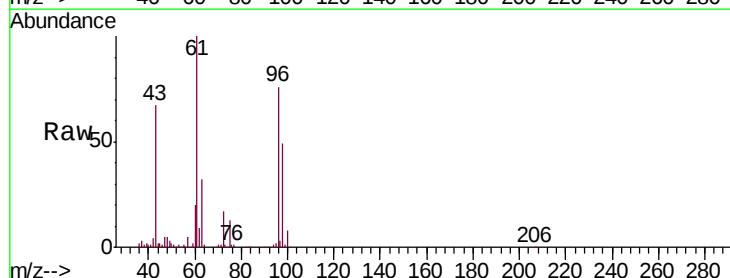
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

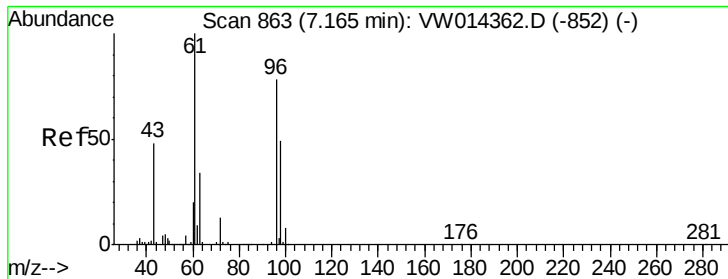
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.5	22.1	41.1
83	12.9	9.0	16.6



#21
 2-Butanone
 Concen: 62.736 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.7	14.1	42.2



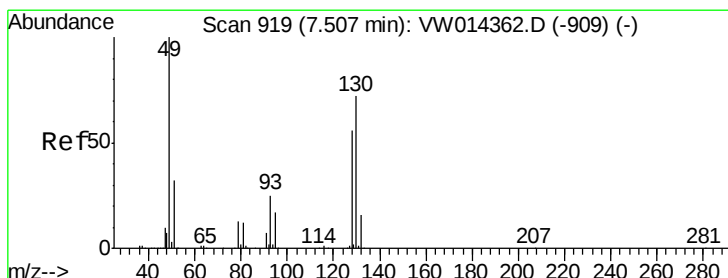
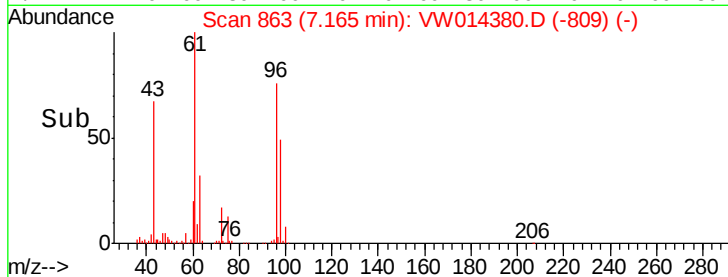
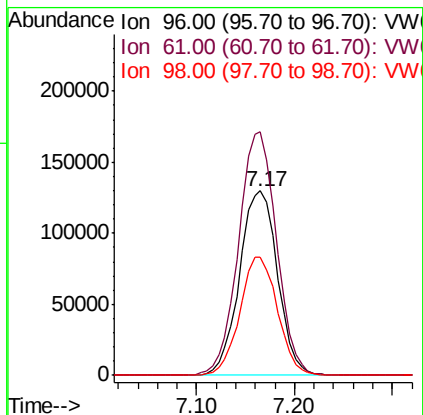
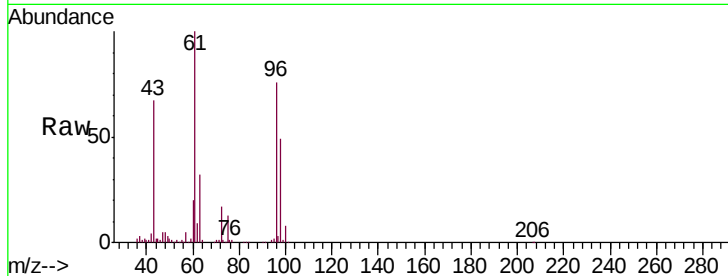


#22

cis-1,2-Dichloroethene
Concen: 23.264 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

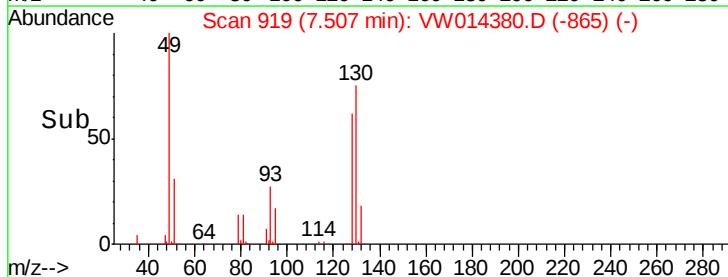
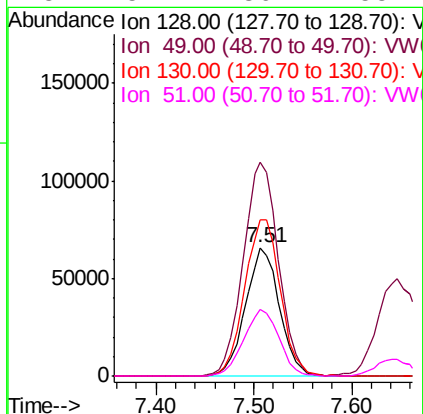
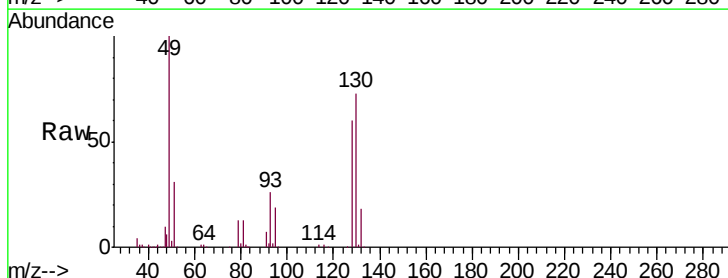
Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.2	86.9	161.5
98	64.3	45.5	84.5

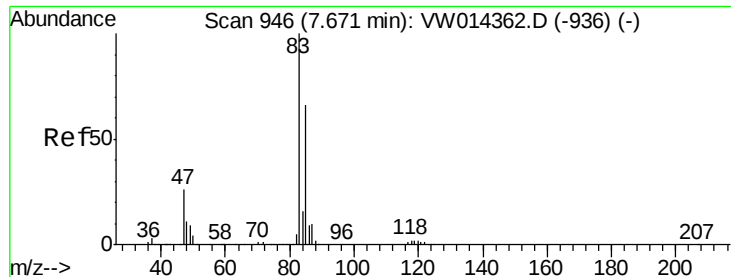


#23

Bromochloromethane
Concen: 22.903 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion	Ratio	Lower	Upper
128	100		
49	166.5	95.1	176.5
130	121.3	85.0	158.0
51	51.7	36.7	55.1





#25

Chloroform

Concen: 23.986 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

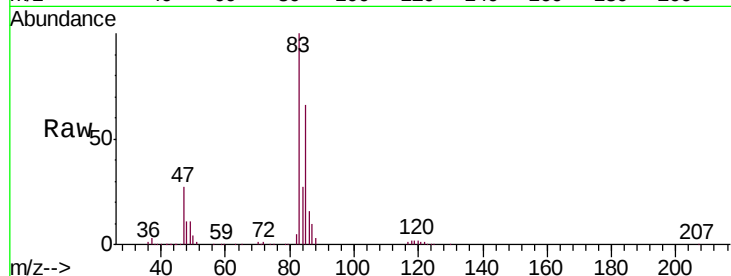
VSTD02521

Tgt Ion: 83 Resp: 593216

Ion Ratio Lower Upper

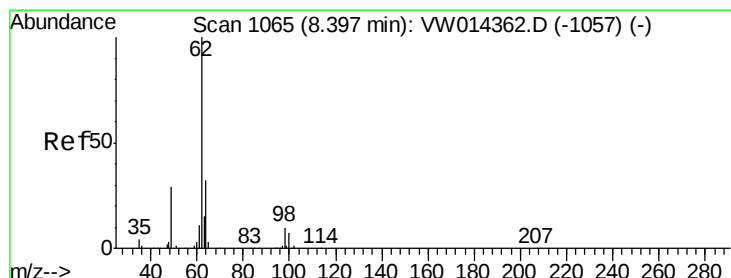
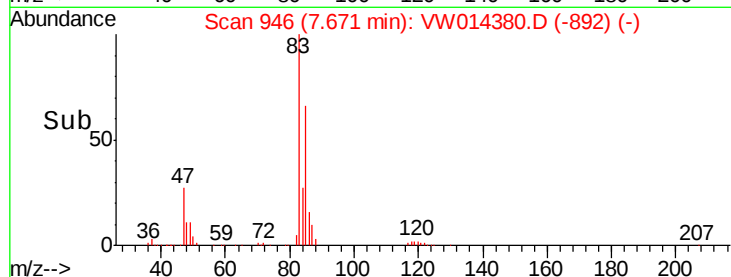
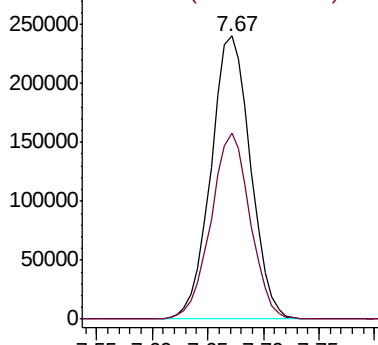
83 100

85 65.4 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 25.140 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014380.D

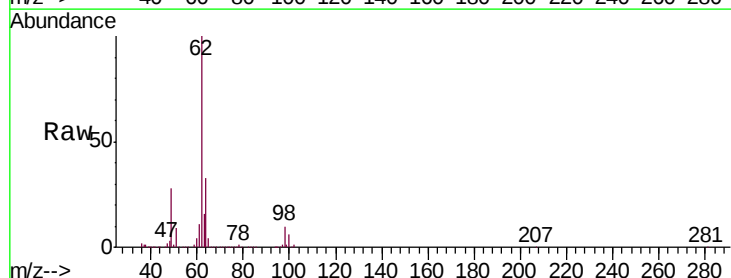
Acq: 16 Dec 2019 20:12

Tgt Ion: 62 Resp: 407133

Ion Ratio Lower Upper

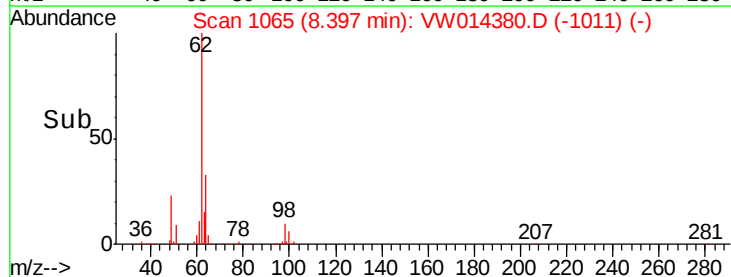
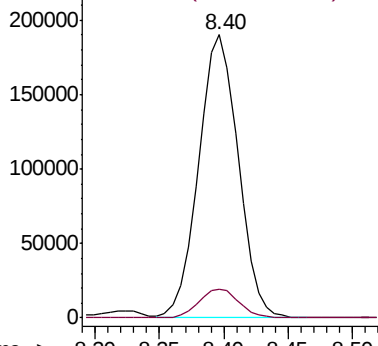
62 100

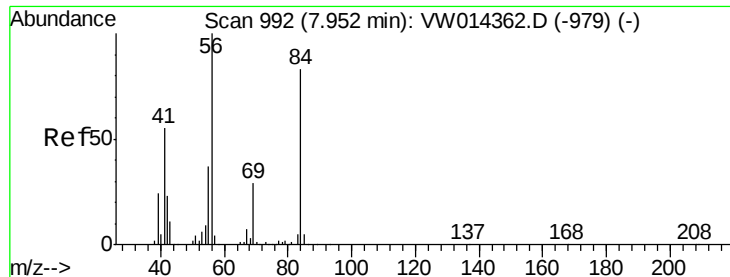
98 10.0 9.3 13.9



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

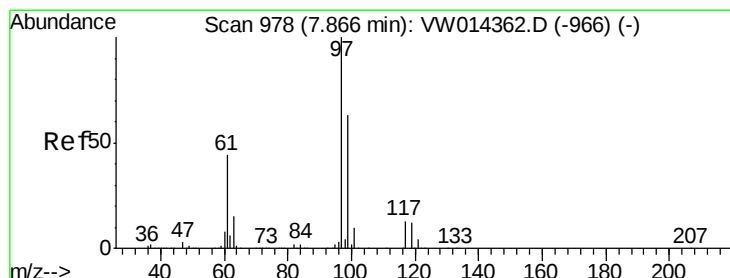
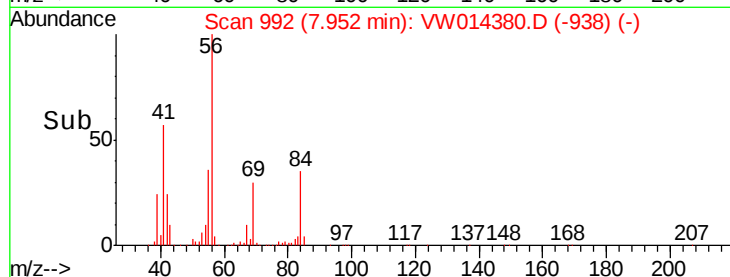
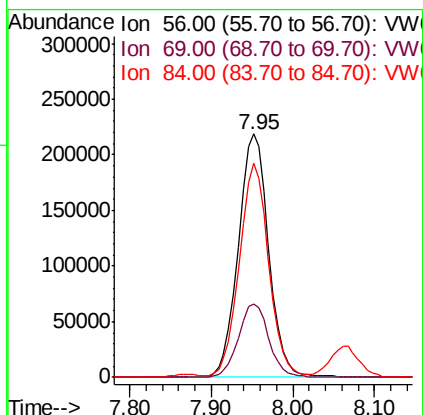
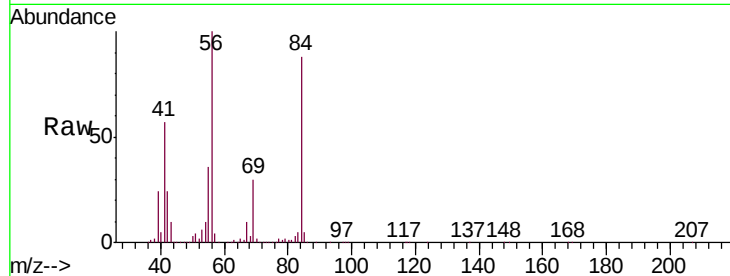




#30
Cyclohexane
Concen: 24.971 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

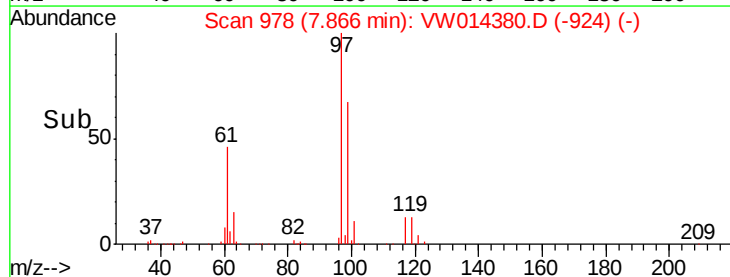
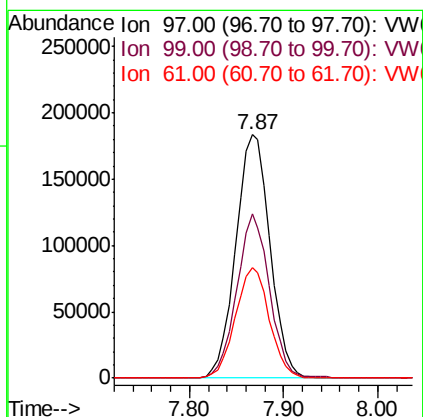
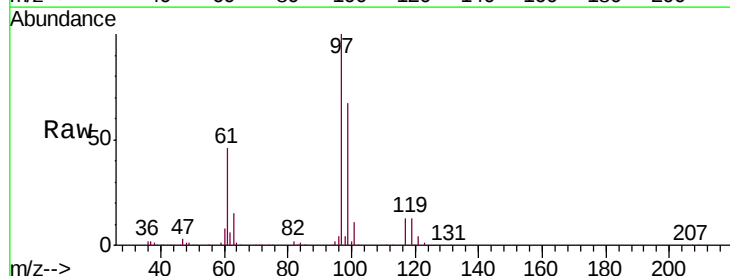
Instrument :
MSVOA_W
ClientSampled :
VSTD02521

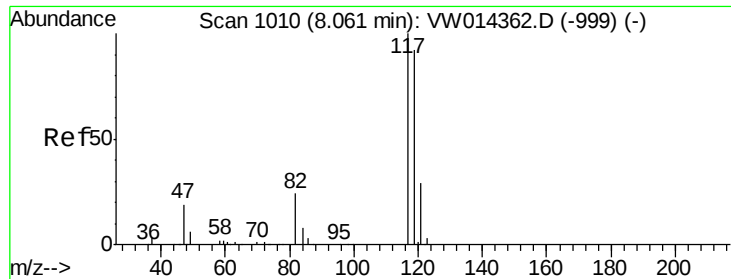
Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.6	37.0
84	84.9	70.2	105.2



#31
1,1,1-Trichloroethane
Concen: 25.654 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	44.7	32.8	49.2

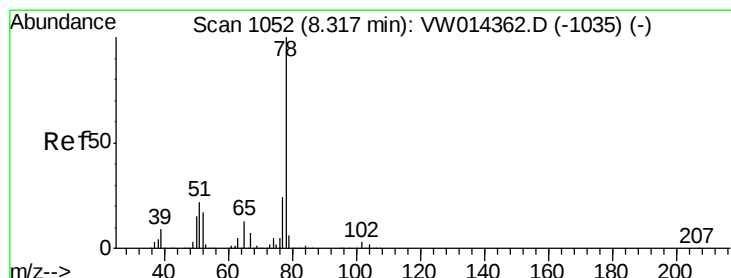
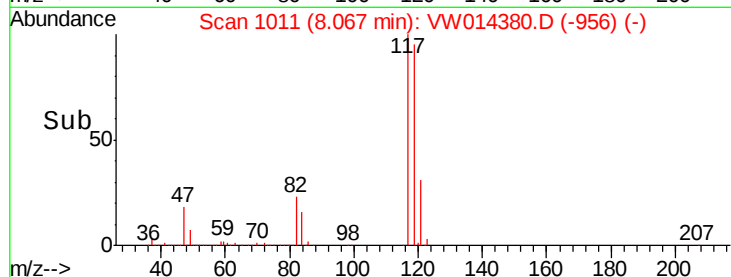
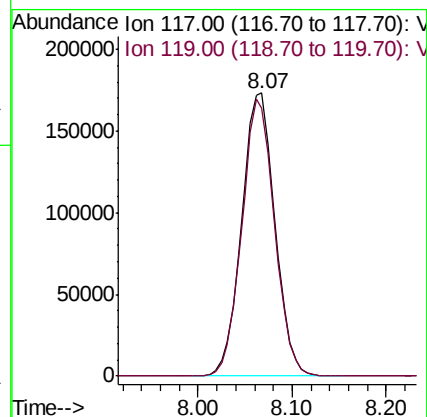
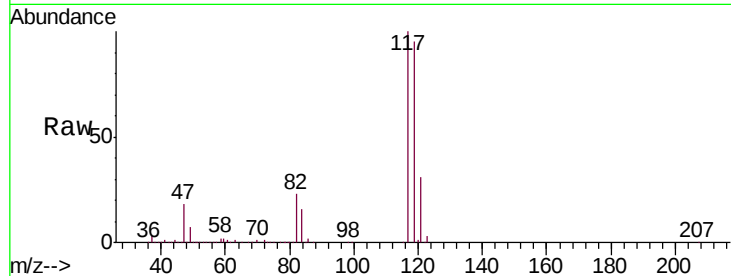




#32
Carbon tetrachloride
Concen: 24.823 ug/L
RT: 8.07 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

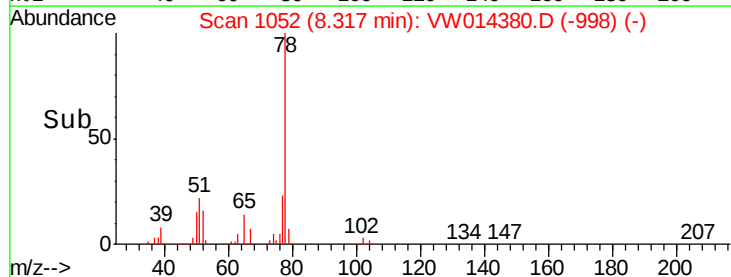
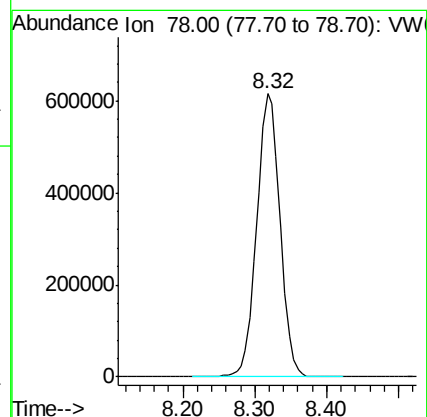
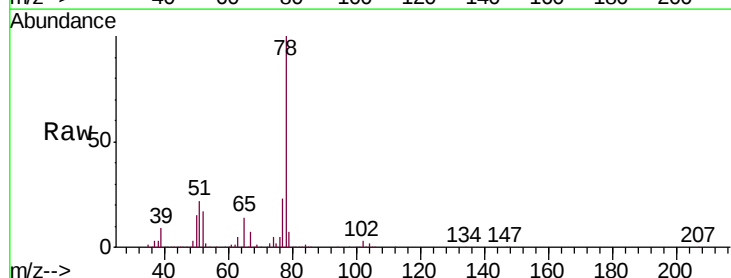
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

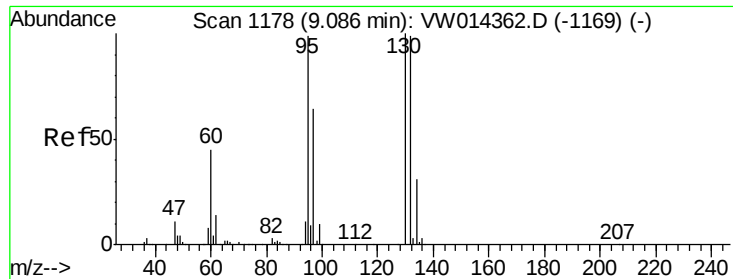
Tgt Ion:117 Resp: 427610
Ion Ratio Lower Upper
117 100
119 96.2 76.7 115.1



#34
Benzene
Concen: 24.210 ug/L
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion: 78 Resp: 1385784





#35

Trichloroethene

Concen: 23.680 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampled :

VSTD02521

Tgt Ion: 95 Resp: 346813

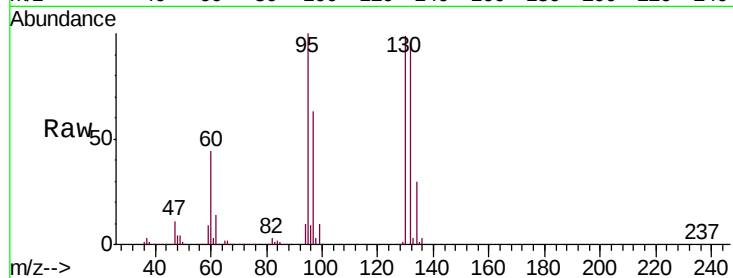
Ion Ratio Lower Upper

95 100

97 63.9 45.1 83.9

132 99.3 73.7 136.9

130 102.7 76.6 142.2

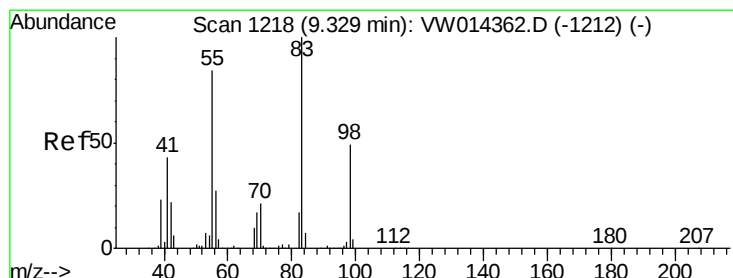
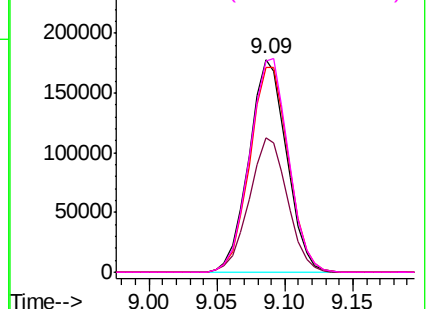
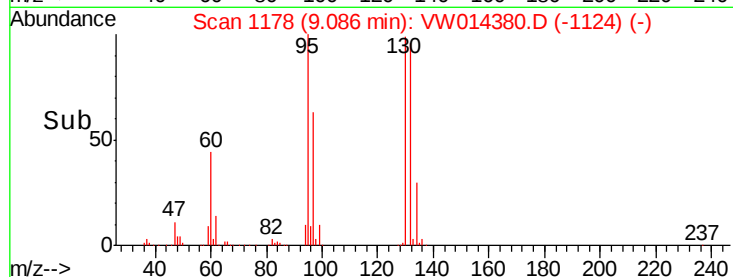


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 24.831 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

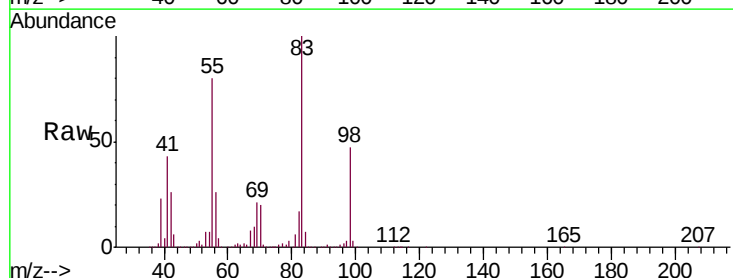
Tgt Ion: 83 Resp: 611096

Ion Ratio Lower Upper

83 100

55 80.5 59.8 89.8

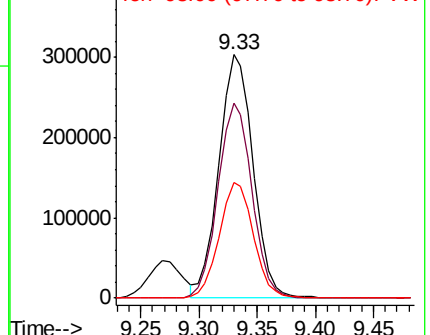
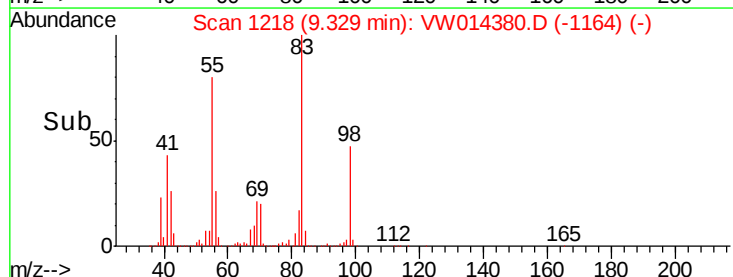
98 48.0 39.5 59.3

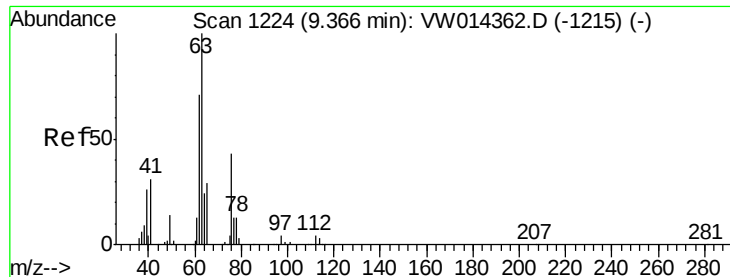


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

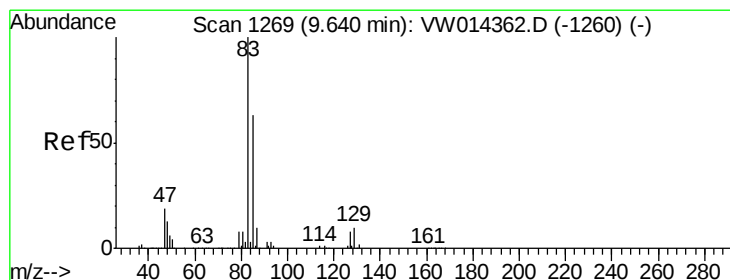
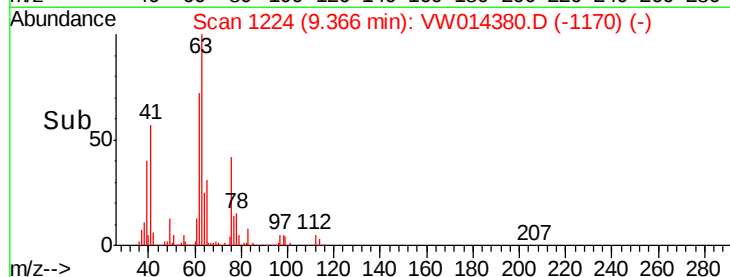
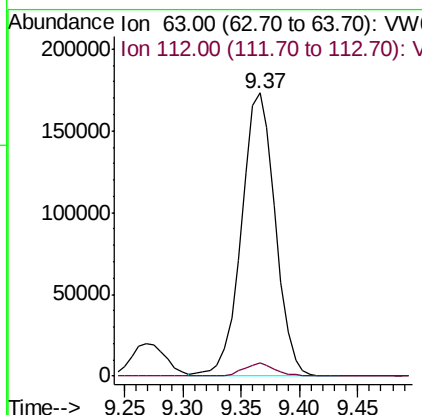
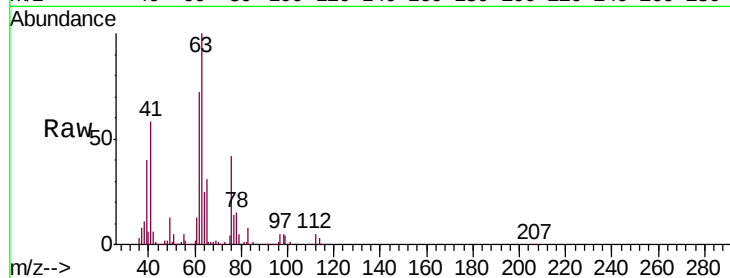




#40
 1,2-Dichloropropane
 Concen: 23.805 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

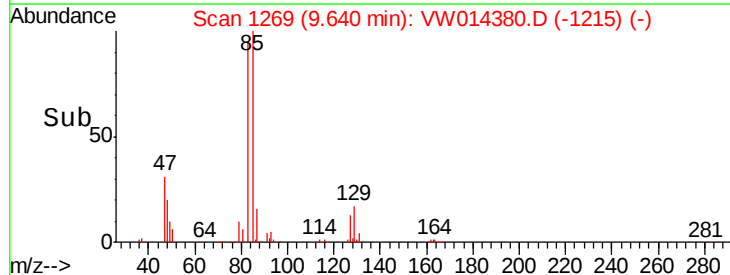
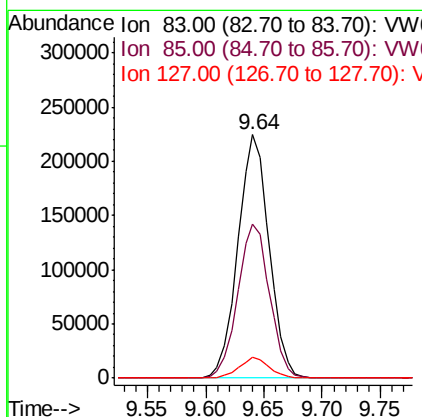
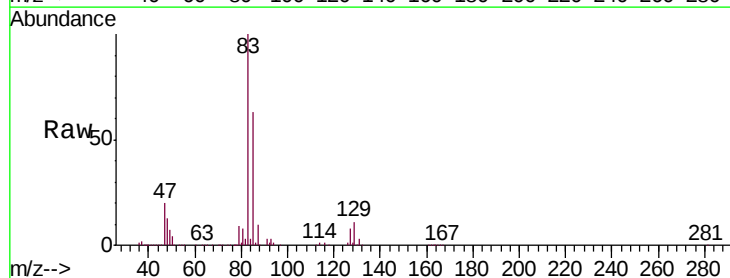
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

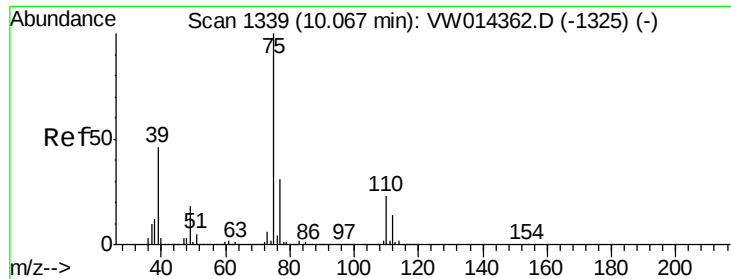
Tgt Ion: 63 Resp: 350058
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.9 5.9



#41
 Bromodichloromethane
 Concen: 23.479 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

Tgt Ion: 83 Resp: 419589
 Ion Ratio Lower Upper
 83 100
 85 63.4 45.1 83.7
 127 8.4 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 23.412 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

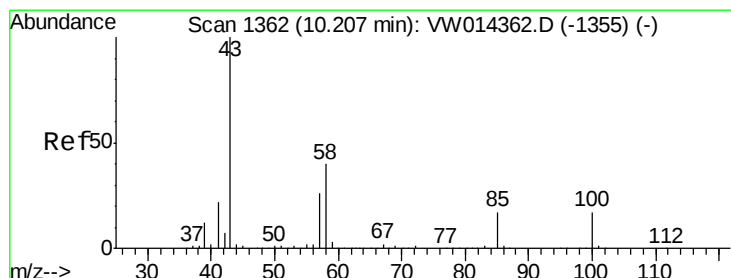
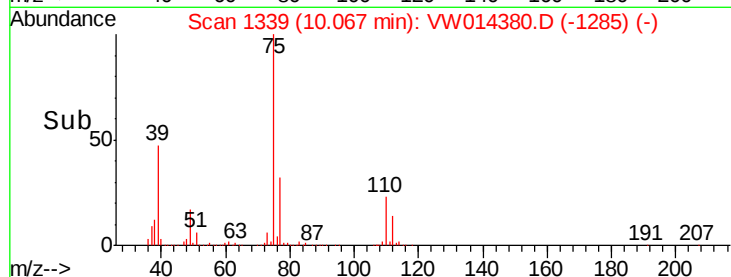
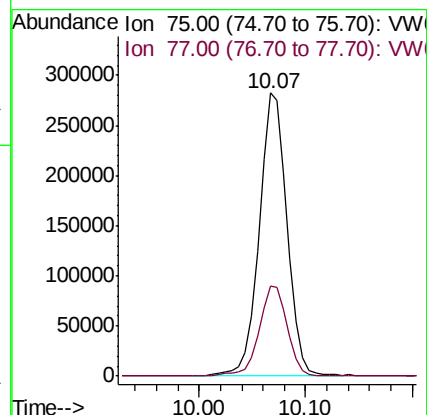
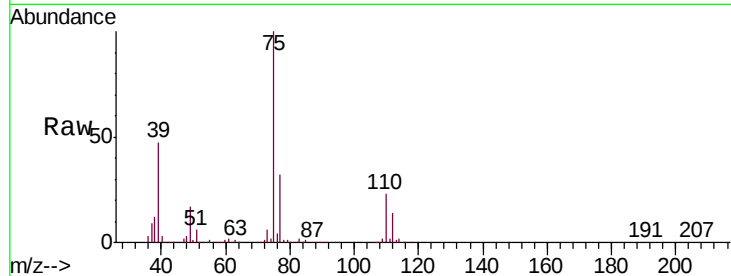
VSTD02521

Tgt Ion: 75 Resp: 515594

Ion Ratio Lower Upper

75 100

77 31.8 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 60.897 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

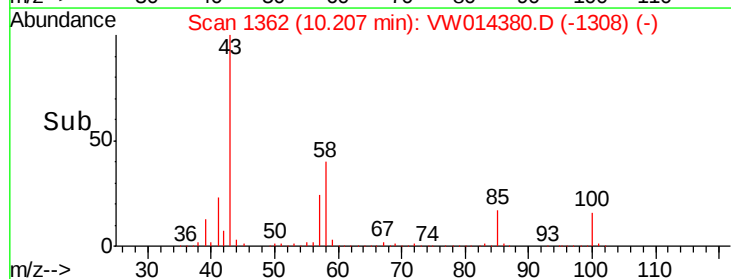
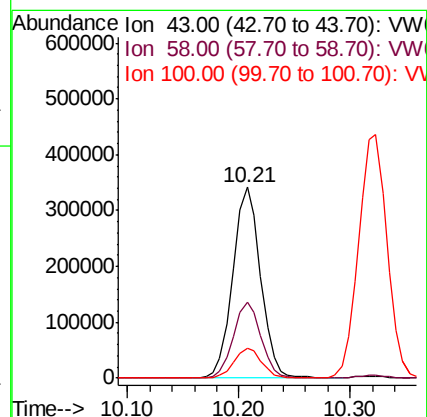
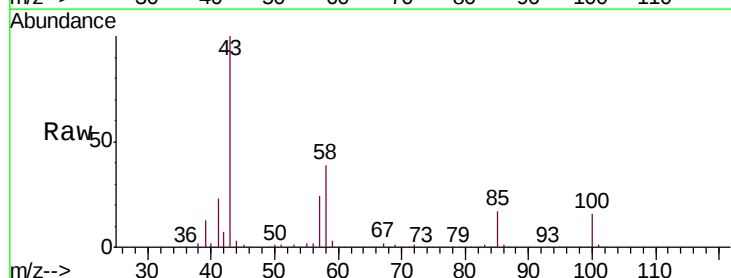
Tgt Ion: 43 Resp: 590521

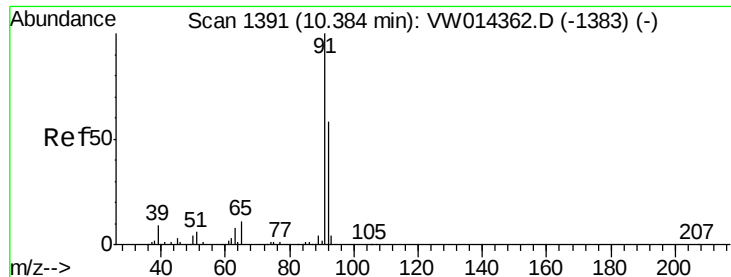
Ion Ratio Lower Upper

43 100

58 39.6 32.6 49.0

100 15.5 13.8 20.8





#44

Toluene

Concen: 24.181 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

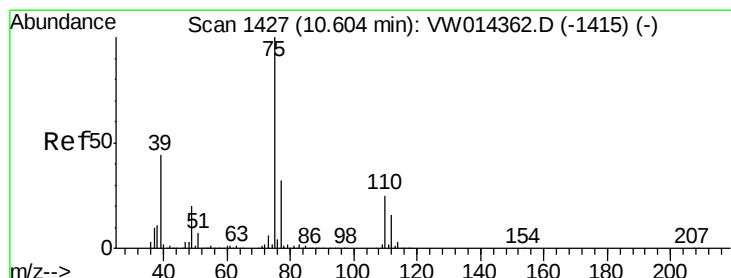
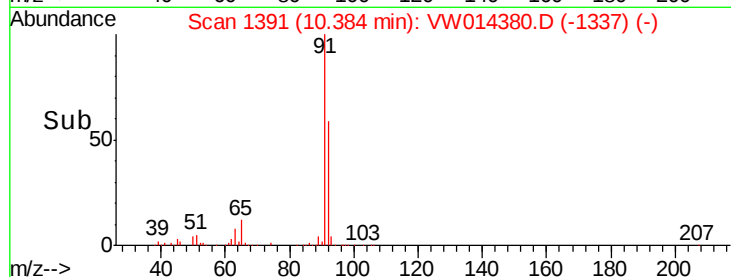
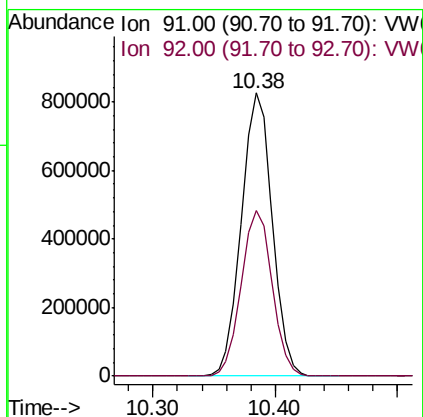
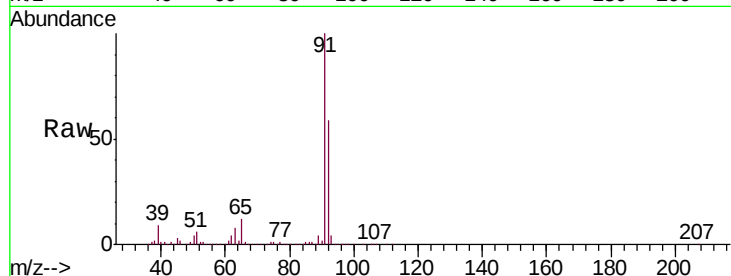
VSTD02521

Tgt Ion: 91 Resp: 1451128

Ion Ratio Lower Upper

91 100

92 58.5 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 24.075 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014380.D

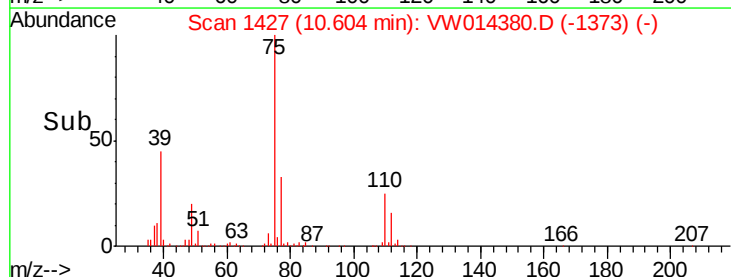
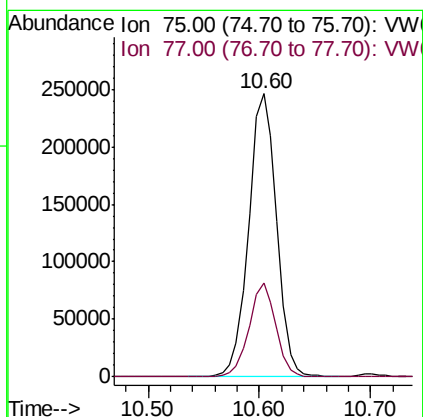
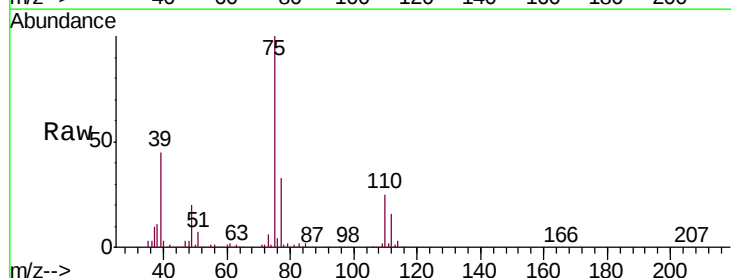
Acq: 16 Dec 2019 20:12

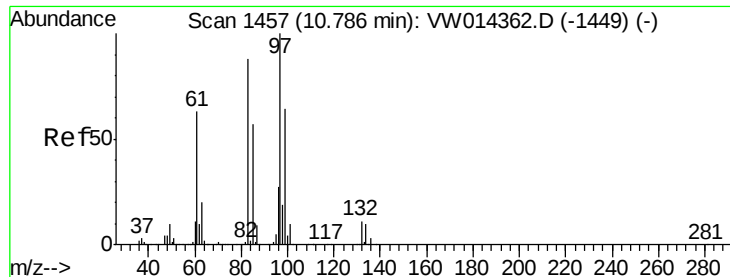
Tgt Ion: 75 Resp: 429178

Ion Ratio Lower Upper

75 100

77 33.2 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 24.449 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

Tgt Ion: 97 Resp: 269412

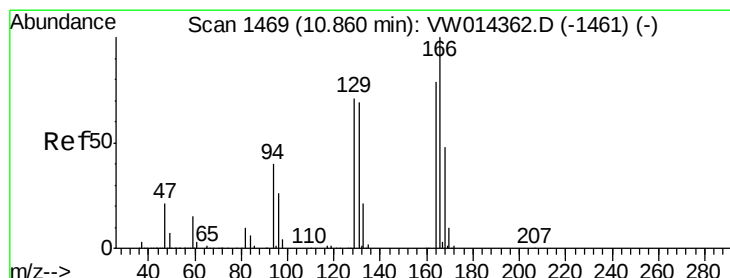
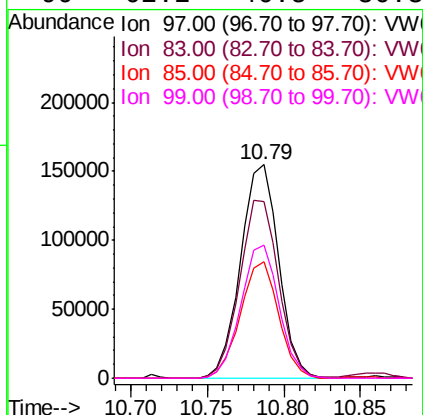
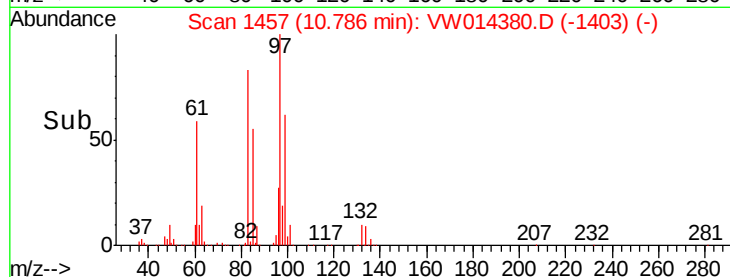
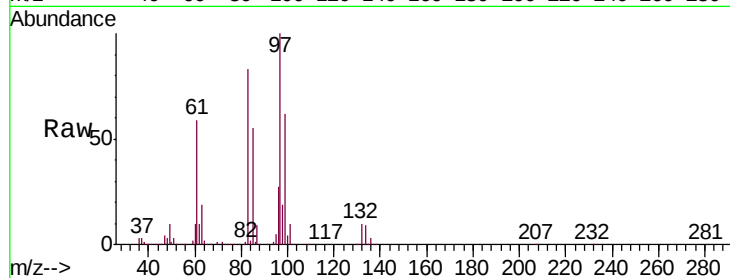
Ion Ratio Lower Upper

97 100

83 82.9 58.9 109.5

85 54.6 38.1 70.9

99 62.2 46.5 86.3



#47

Tetrachloroethene

Concen: 23.249 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Tgt Ion: 164 Resp: 283796

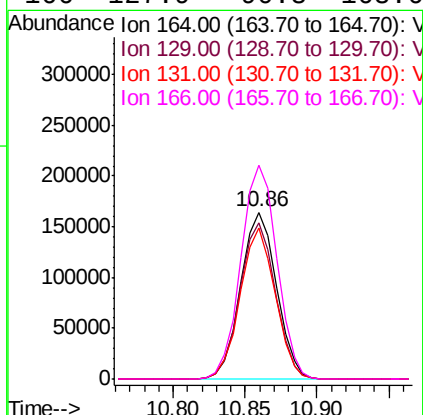
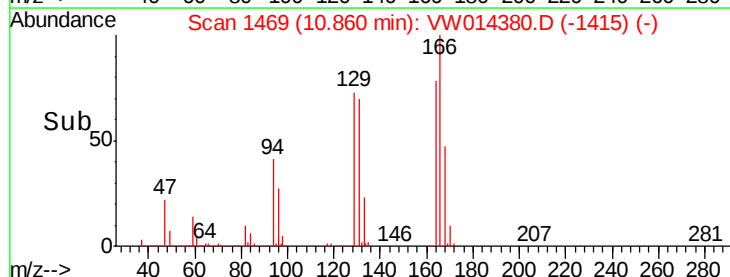
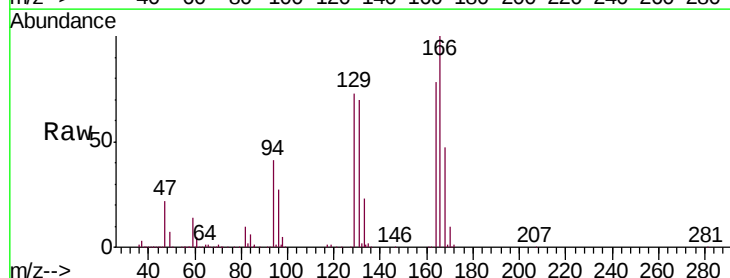
Ion Ratio Lower Upper

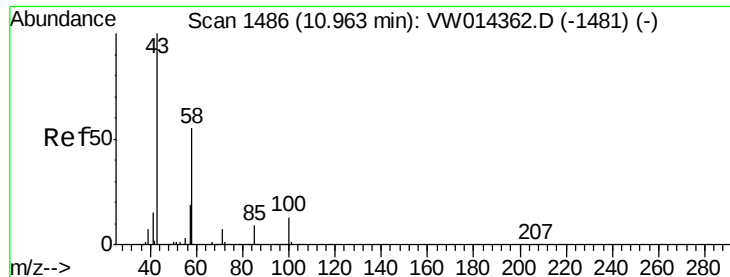
164 100

129 93.3 60.6 112.6

131 90.1 59.1 109.7

166 127.9 90.8 168.6

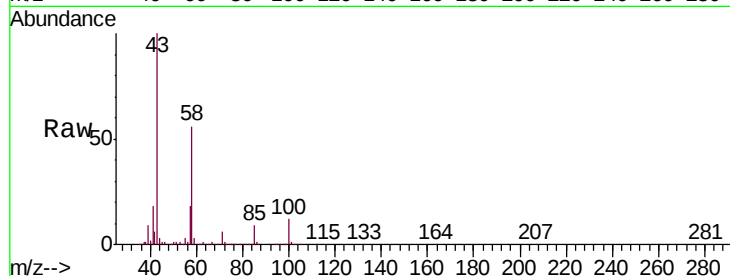




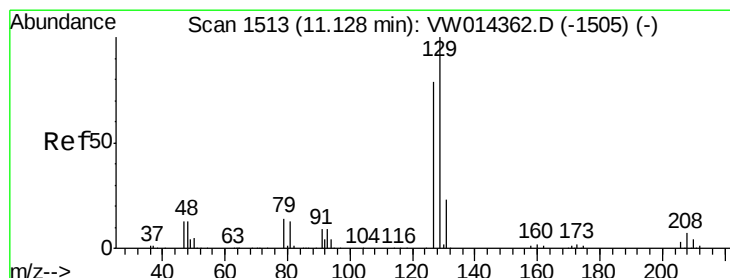
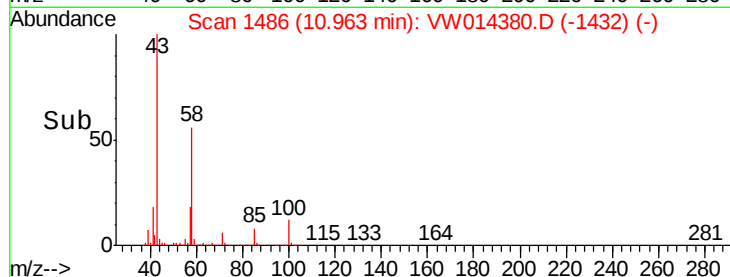
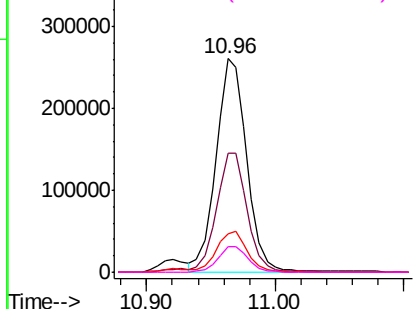
#49
2-Hexanone
Concen: 63.267 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

Tgt Ion: 43 Resp: 436774
Ion Ratio Lower Upper
43 100
58 55.6 44.4 66.6
57 19.1 16.5 24.7
100 12.0 11.1 16.7

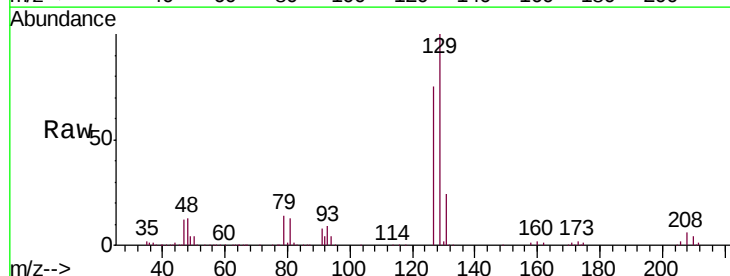


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

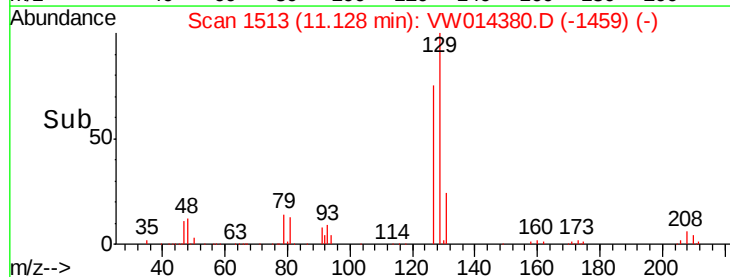
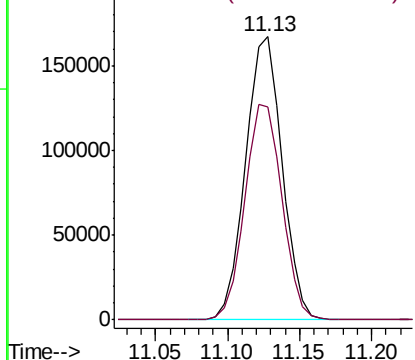


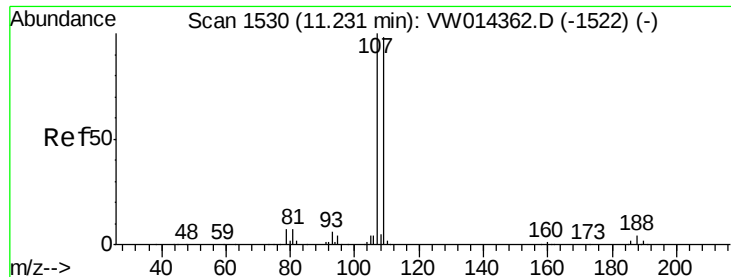
#50
Dibromochloromethane
Concen: 23.756 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion: 129 Resp: 293809
Ion Ratio Lower Upper
129 100
127 75.1 54.9 102.1



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





#51

1,2-Dibromoethane

Concen: 24.513 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

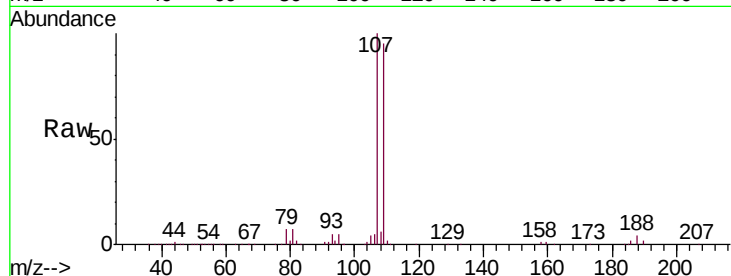
Tgt Ion:107 Resp: 255866

Ion Ratio Lower Upper

107 100

109 94.7 64.6 120.0

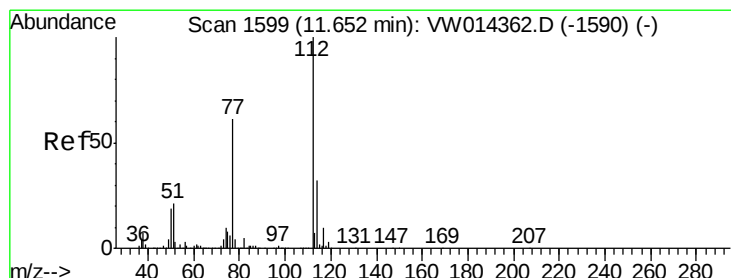
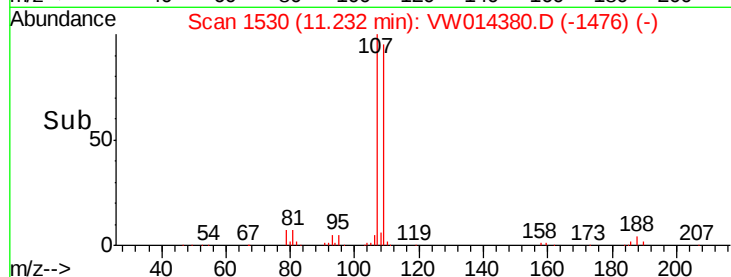
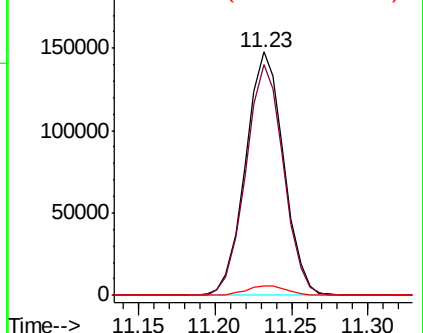
188 4.0 3.9 5.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 22.869 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

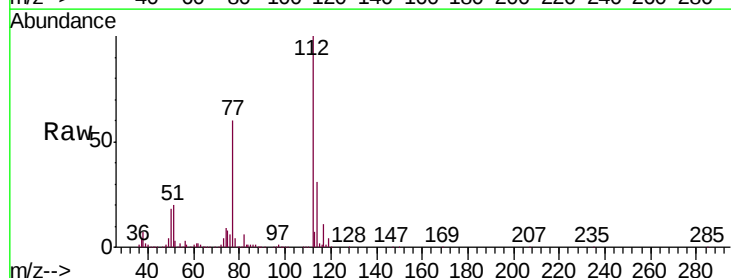
Tgt Ion:112 Resp: 886956

Ion Ratio Lower Upper

112 100

77 59.7 42.2 63.4

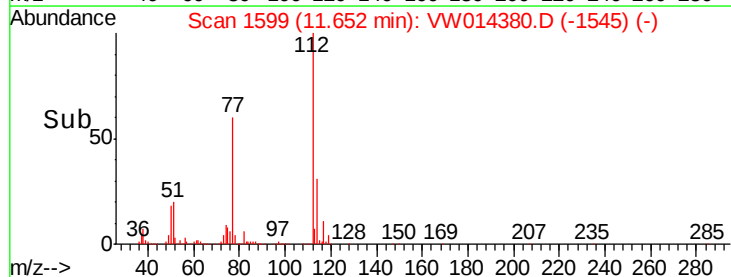
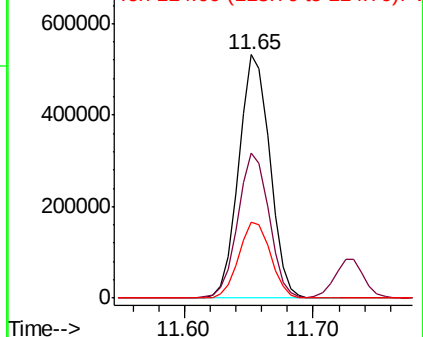
114 31.4 22.5 41.9

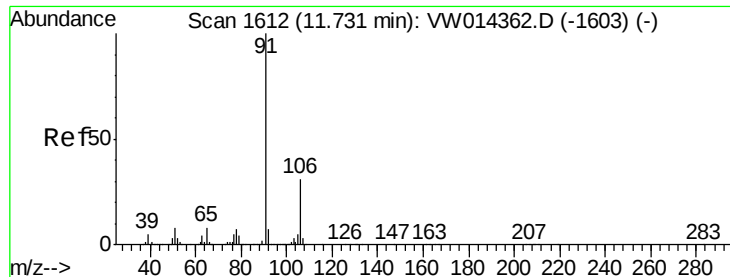


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.293 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampled :

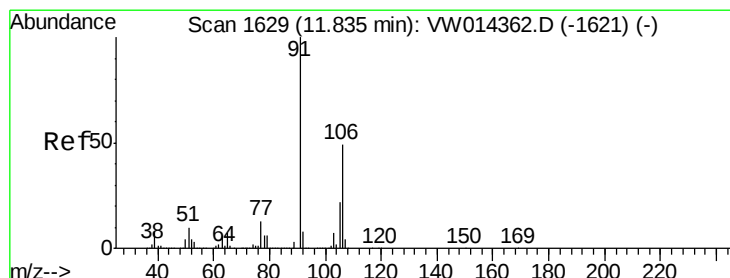
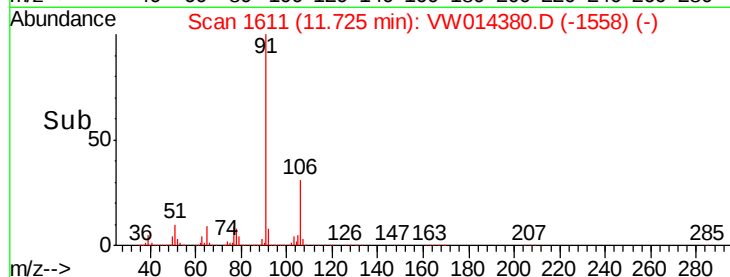
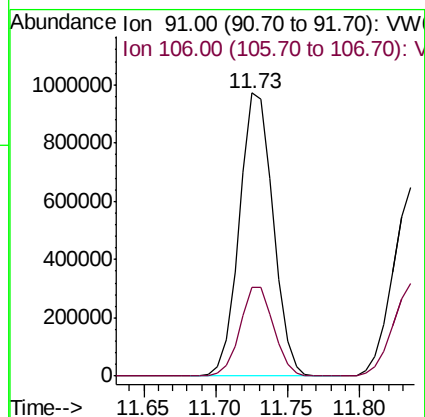
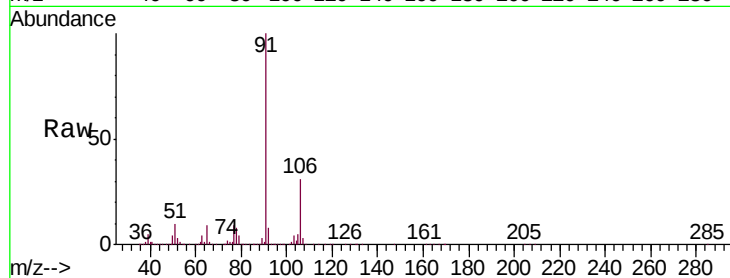
VSTD02521

Tgt Ion: 91 Resp: 1581843

Ion Ratio Lower Upper

91 100

106 31.3 22.3 41.5



#54

m,p-Xylene

Concen: 24.020 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014380.D

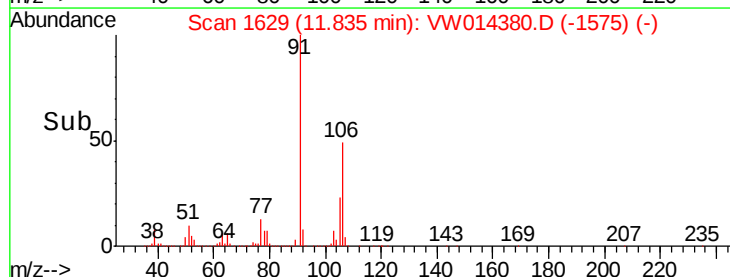
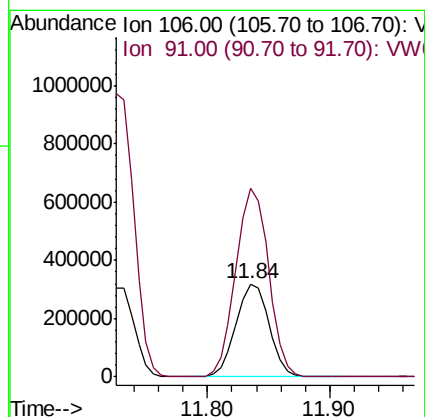
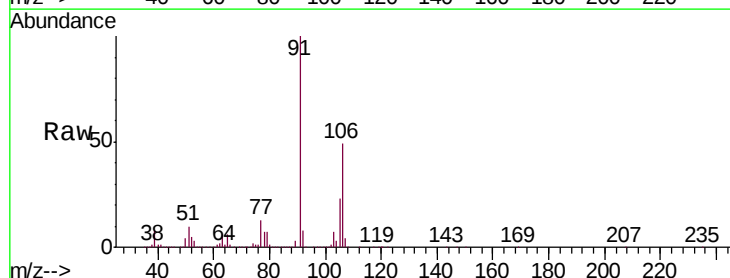
Acq: 16 Dec 2019 20:12

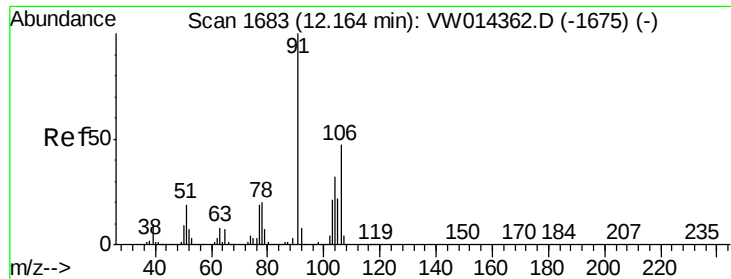
Tgt Ion: 106 Resp: 601665

Ion Ratio Lower Upper

106 100

91 202.5 138.7 257.5

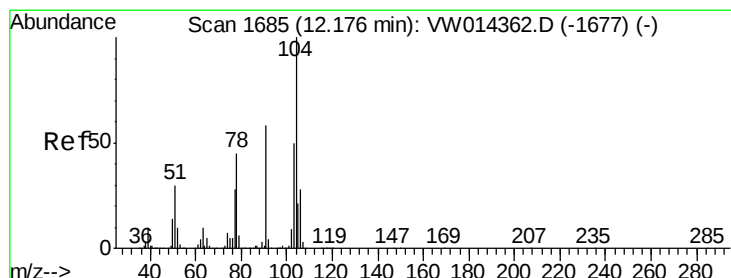
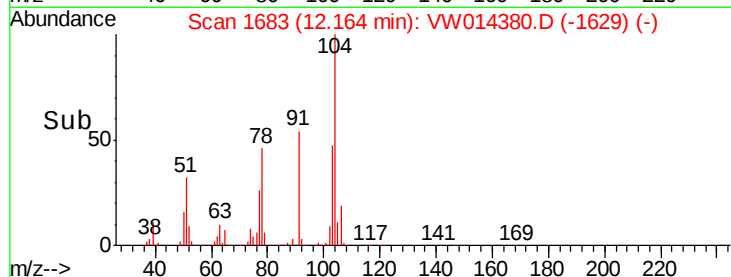
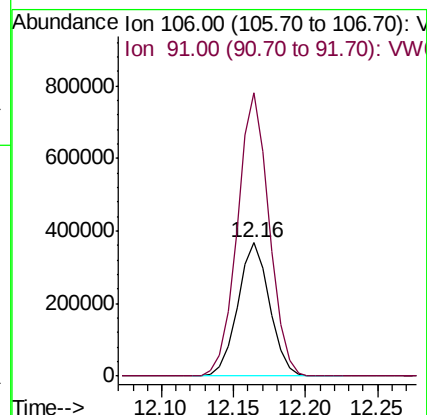
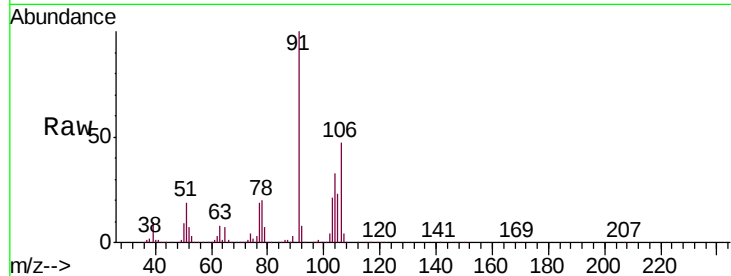




#55
o-xylene
Concen: 23.814 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

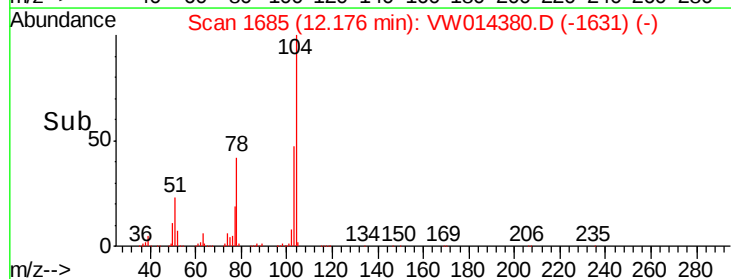
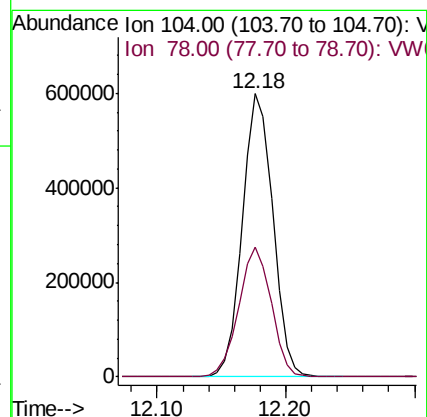
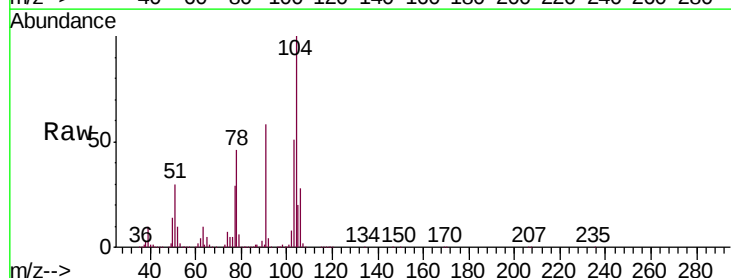
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

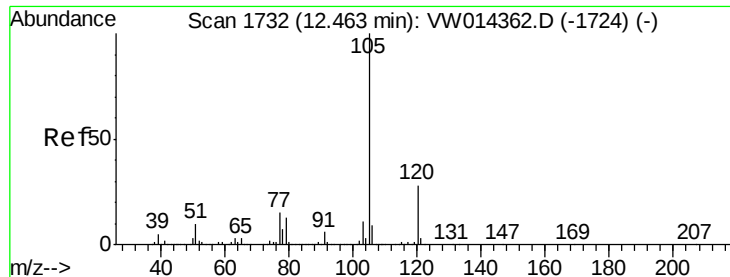
Tgt Ion:106 Resp: 565785
Ion Ratio Lower Upper
106 100
91 212.3 148.3 275.5



#56
Styrene
Concen: 24.113 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW014380.D
Acq: 16 Dec 2019 20:12

Tgt Ion:104 Resp: 980055
Ion Ratio Lower Upper
104 100
78 45.7 30.6 56.8





#57

Isopropylbenzene

Concen: 24.772 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

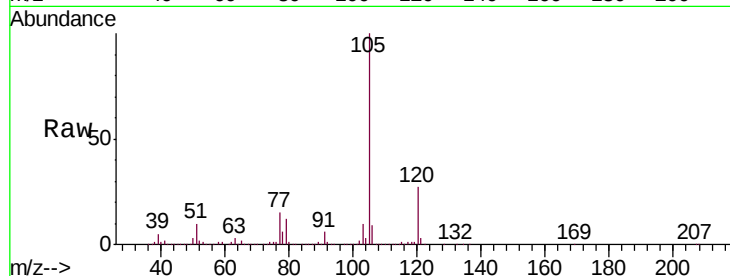
Tgt Ion:105 Resp: 1527958

Ion Ratio Lower Upper

105 100

120 26.3 21.6 32.4

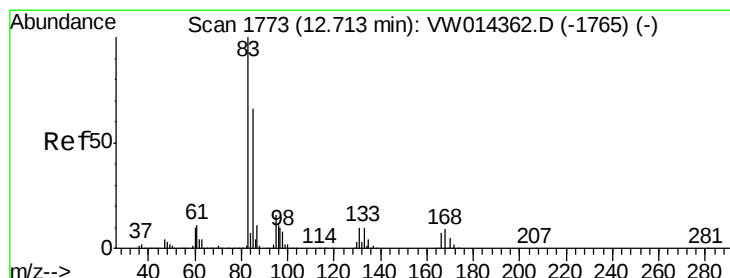
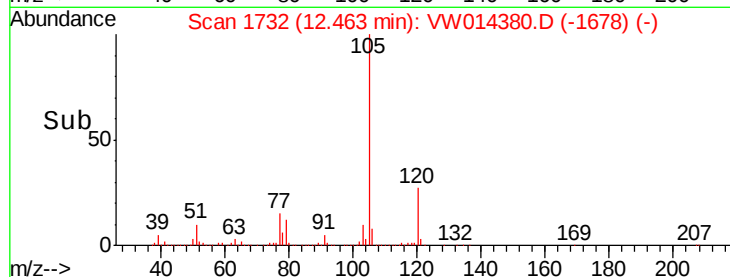
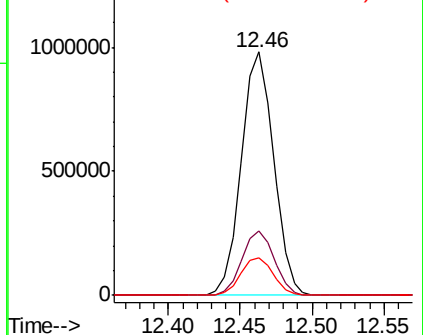
77 15.6 11.6 17.4



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: 26.196 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

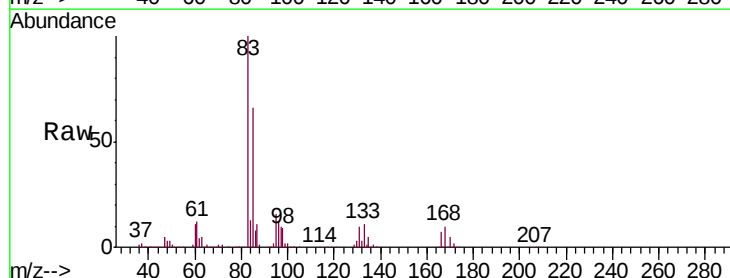
Tgt Ion: 83 Resp: 358292

Ion Ratio Lower Upper

83 100

85 66.3 43.7 81.1

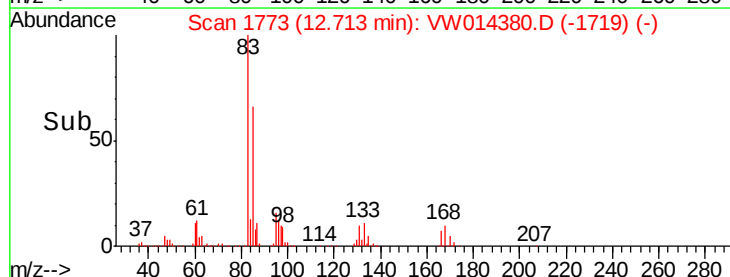
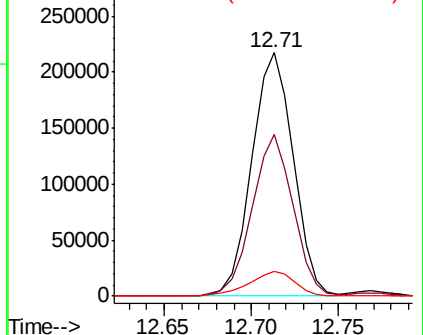
131 10.3 8.2 12.2

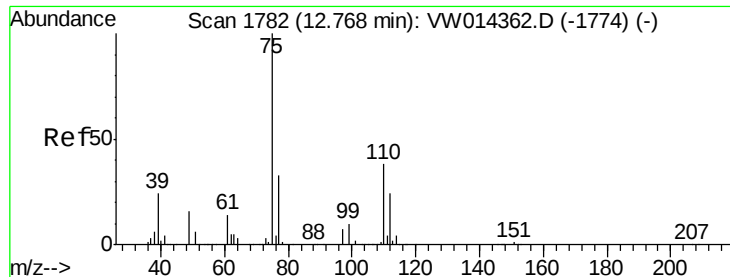


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 26.965 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

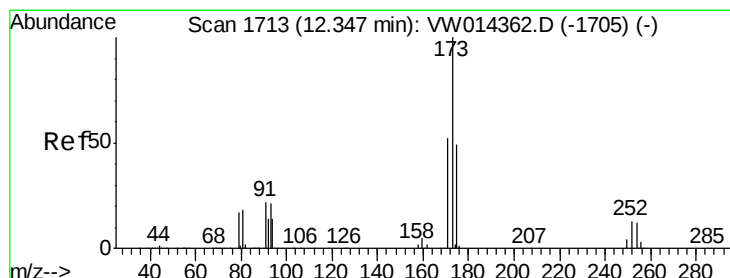
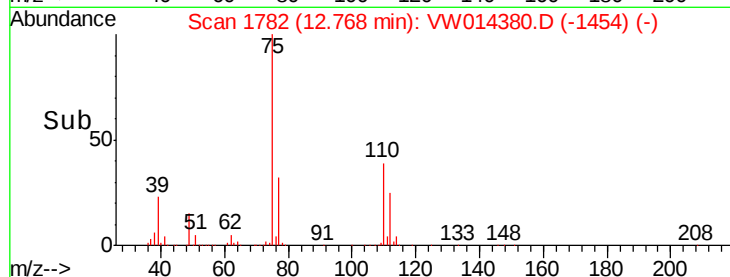
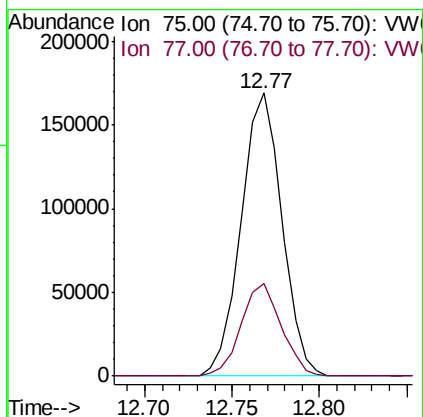
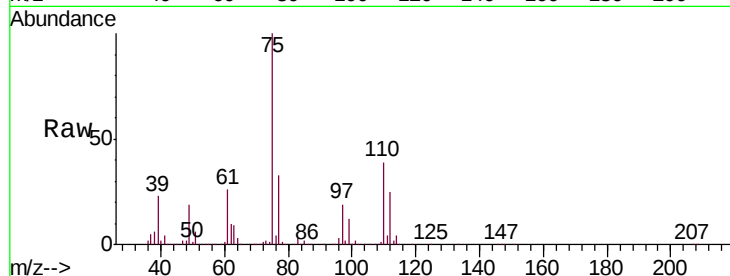
VSTD02521

Tgt Ion: 75 Resp: 274047

Ion Ratio Lower Upper

75 100

77 32.5 25.9 38.9



#62

Bromoform

Concen: 24.745 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

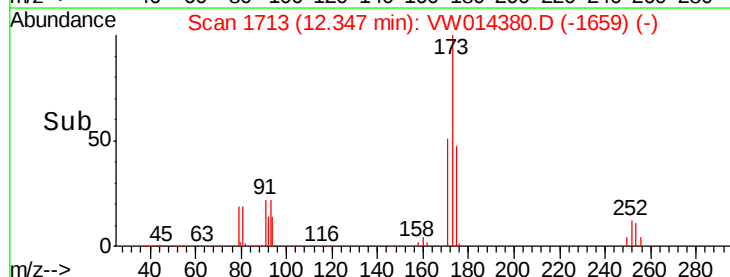
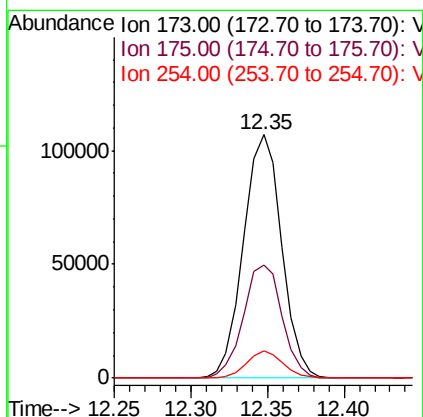
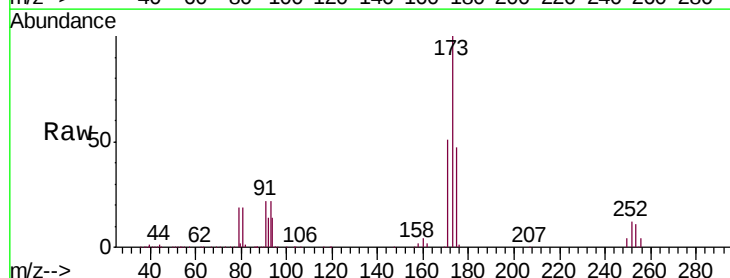
Tgt Ion: 173 Resp: 185901

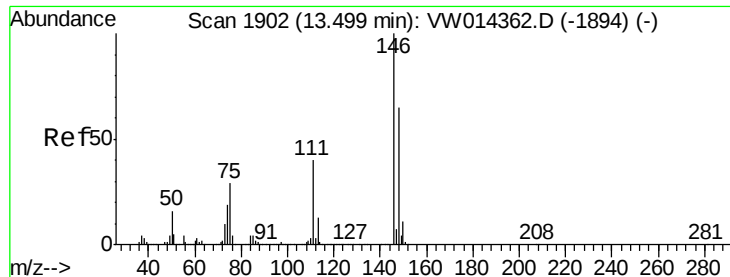
Ion Ratio Lower Upper

173 100

175 47.2 38.8 58.2

254 10.7 9.4 14.0

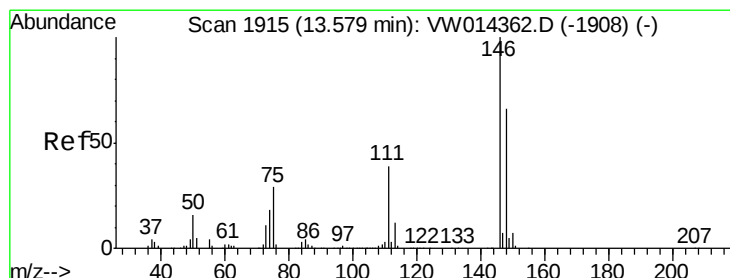
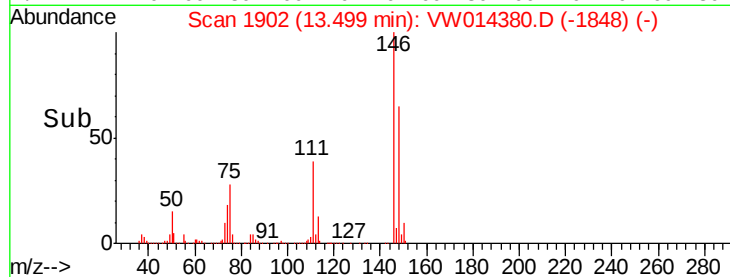
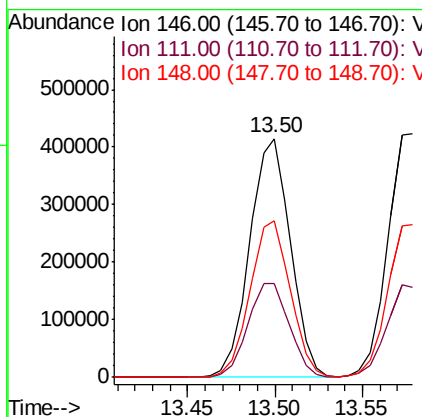
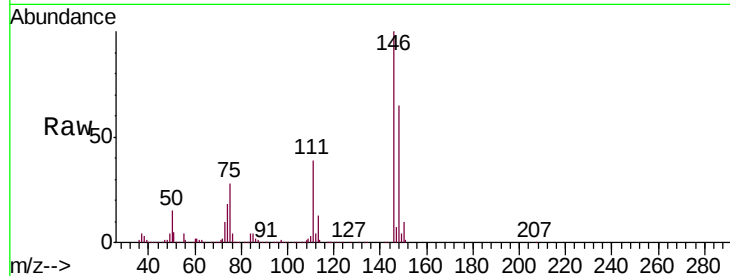




#63
 1,3-Dichlorobenzene
 Concen: 22.569 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

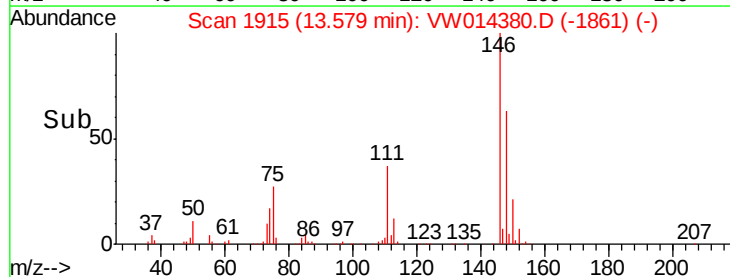
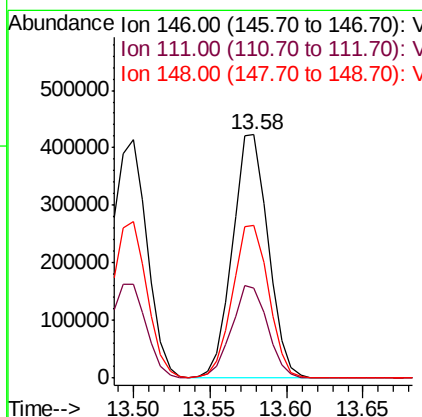
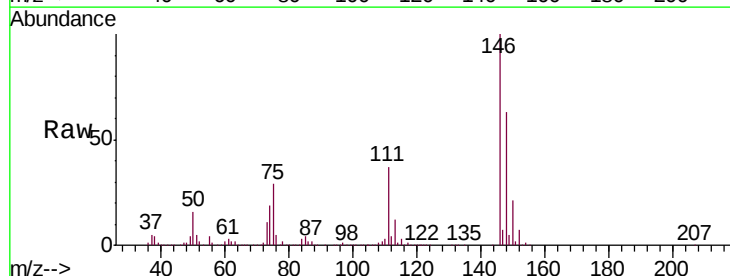
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

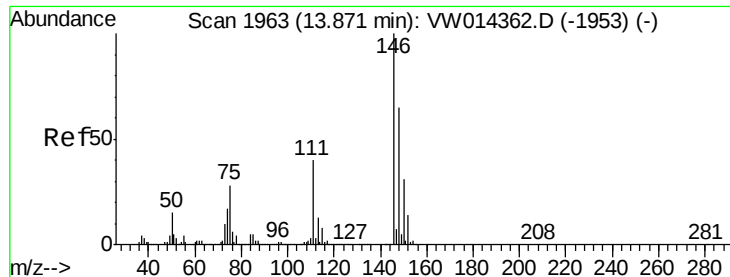
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	26.0	48.2
148	65.3	44.7	82.9



#64
 1,4-Dichlorobenzene
 Concen: 22.663 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	24.9	46.3
148	62.5	43.9	81.5

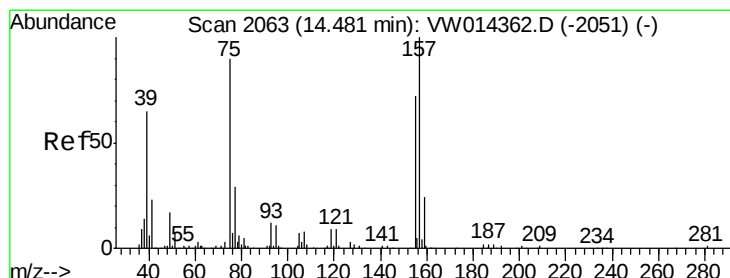
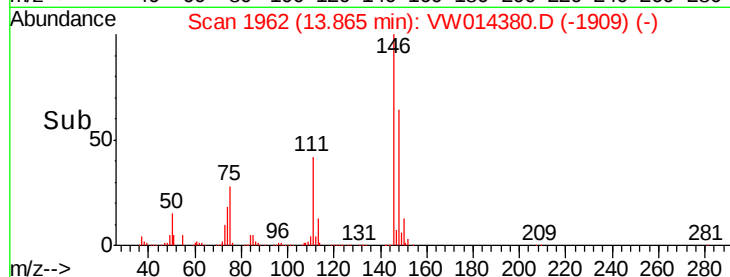
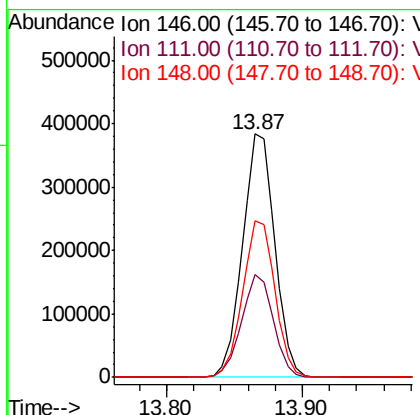
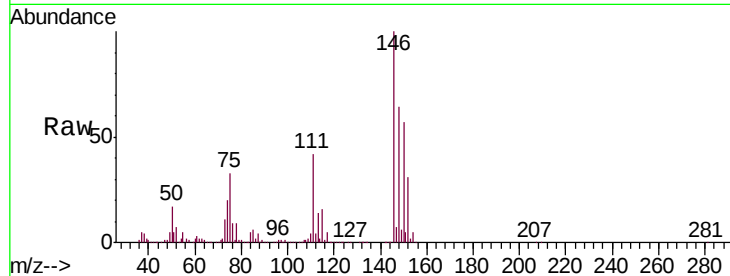




#65
 1,2-Dichlorobenzene
 Concen: 22.978 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

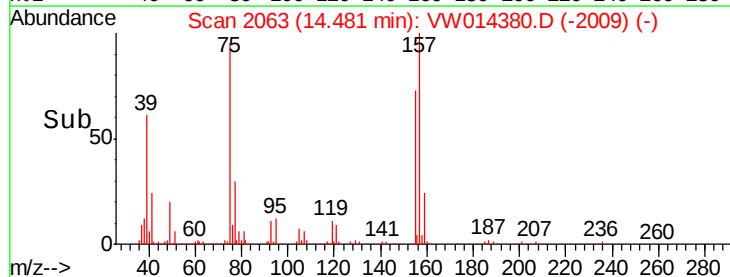
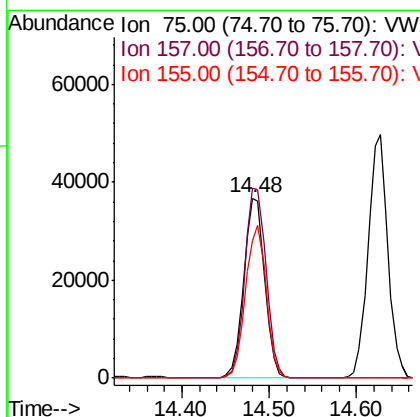
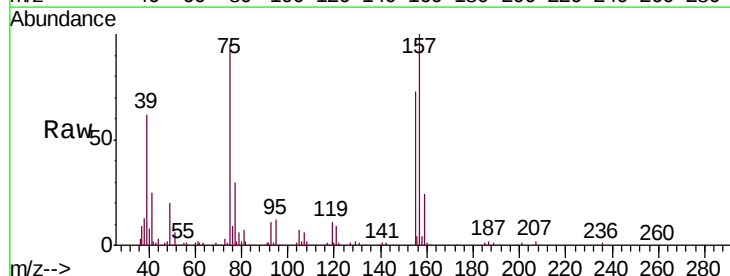
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

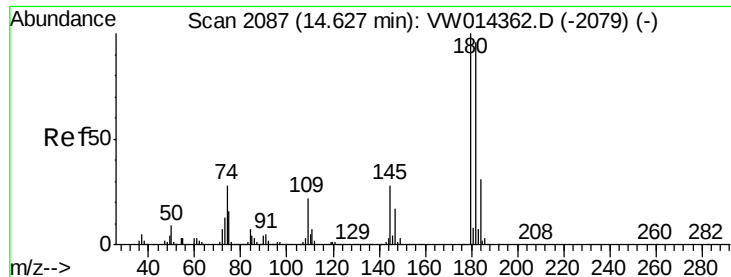
Tgt Ion: 146 Resp: 635744
 Ion Ratio Lower Upper
 146 100
 111 42.1 30.5 45.7
 148 64.5 49.4 74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 28.677 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

Tgt Ion: 75 Resp: 61206
 Ion Ratio Lower Upper
 75 100
 157 105.2 96.9 145.3
 155 76.4 82.9 124.3#

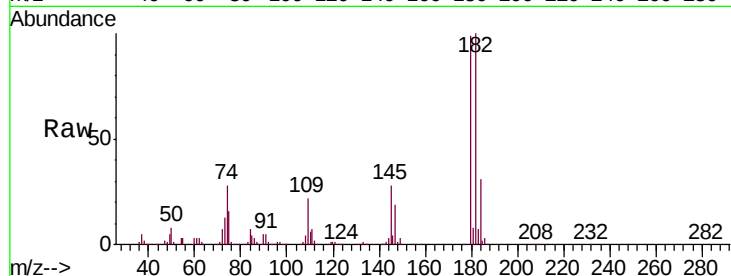




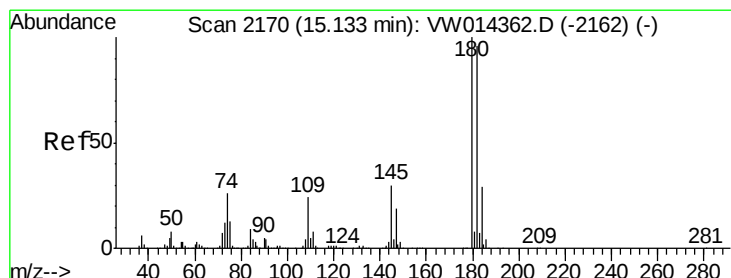
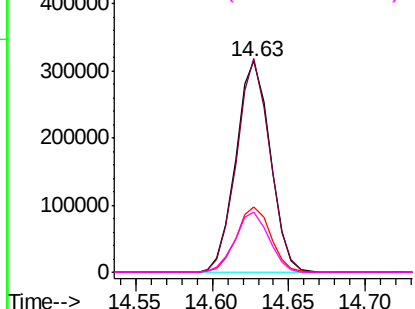
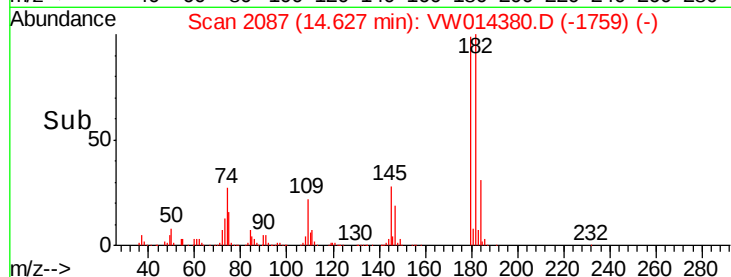
#67
 1,3,5-Trichlorobenzene
 Concen: 22.996 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

Tgt Ion:	180	Resp:	492240
Ion	Ratio	Lower	Upper
180	100		
182	98.1	76.2	114.2
184	30.8	24.3	36.5
145	28.1	21.9	32.9

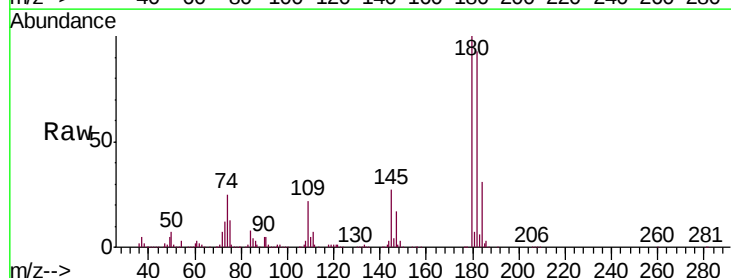


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

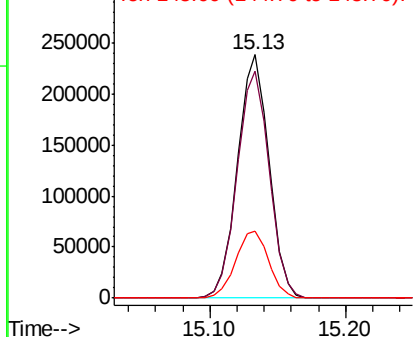
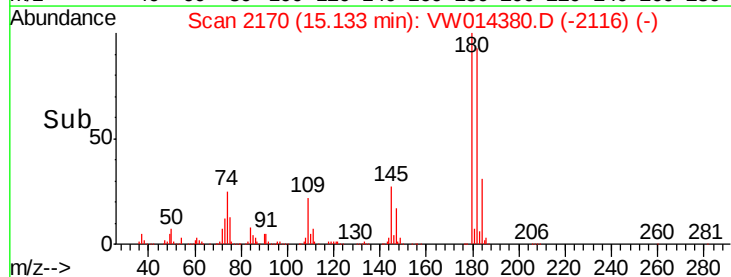


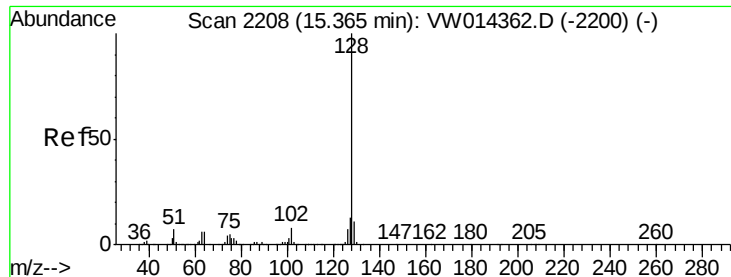
#68
 1,2,4-trichlorobenzene
 Concen: 23.138 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014380.D
 Acq: 16 Dec 2019 20:12

Tgt Ion:	180	Resp:	386115
Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.8	113.8
145	28.8	22.4	33.6



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





#69

Naphthalene

Concen: 26.087 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

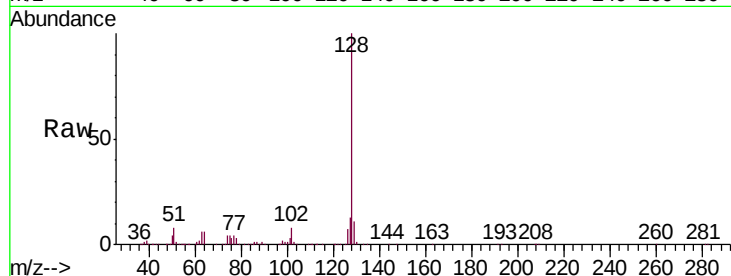
Tgt Ion:128 Resp: 818653

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

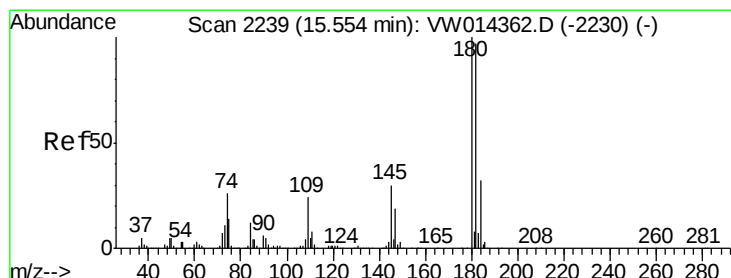
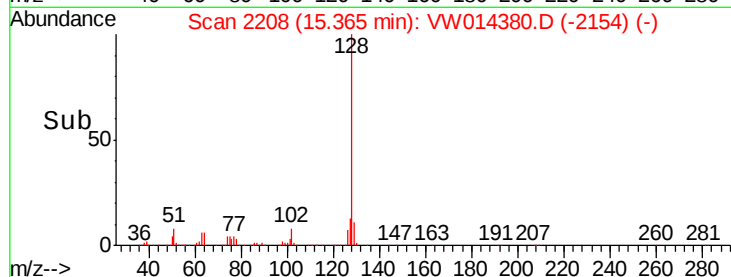
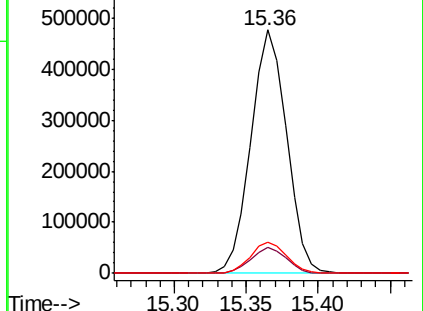
127 13.1 10.4 15.6



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: 23.433 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014380.D

Acq: 16 Dec 2019 20:12

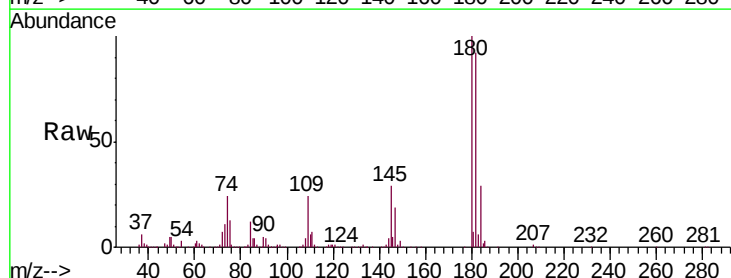
Tgt Ion:180 Resp: 366697

Ion Ratio Lower Upper

180 100

182 95.0 75.8 113.6

145 30.6 24.0 36.0



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

