

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102219\
 Data File : VW013646.D
 Acq On : 22 Oct 2019 10:30
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

Quant Time: Oct 22 14:35:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 22 06:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	379182	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	360412	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	217035	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	127756	27.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	109.84%
7) Chloroethane-d5	2.90	69	111490	25.67	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.68%
10) 1,1-Dichloroethene-d2	4.03	63	266615	25.95	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	103.80%
20) 2-Butanone-d5	7.07	46	90122	54.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.32%
24) Chloroform-d	7.65	84	283968	26.76	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.04%
26) 1,2-Dichloroethane-d4	8.30	65	145038	26.14	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.56%
29) Benzene-d6	8.27	84	585151	27.02	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	108.08%
33) 1,2-Dichloropropane-d6	9.27	67	177887	27.51	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	110.04%
37) Toluene-d8	10.32	98	537923	26.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.76%
38) trans-1,3-Dichloropropene-	10.58	79	78483	26.90	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	107.60%
39) 2-Hexanone-d5	10.93	63	70889	57.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.68%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	145298	27.43	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.72%
61) 1,2-Dichlorobenzene-d4	13.85	152	197831	25.79	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.16%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.02	85	85238	19.986	ug/L	99
3) Chloromethane	2.22	50	87063	18.858	ug/L	98
5) Vinyl chloride	2.37	62	141358	24.501	ug/L	98
6) Bromomethane	2.79	94	90702	21.757	ug/L	97
8) Chloroethane	2.93	64	86468	22.177	ug/L	99
9) Trichlorofluoromethane	3.26	101	94391	24.273	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	138387	22.600	ug/L	99
12) 1,1-Dichloroethene	4.04	96	140335	23.287	ug/L	90
13) Acetone	4.14	43	69092	37.412	ug/L	98
14) Carbon disulfide	4.39	76	411638	23.872	ug/L	99
15) Methyl Acetate	4.68	43	65371	21.664	ug/L	100
16) Methylene chloride	4.92	84	149409	20.577	ug/L	94
17) Methyl tert-butyl Ether	5.43	73	191503	22.967	ug/L	99
18) trans-1,2-Dichloroethene	5.43	96	148919	22.355	ug/L	92
19) 1,1-Dichloroethane	6.21	63	255649	22.672	ug/L	98
21) 2-Butanone	7.18	43	93309	39.794	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	160841	22.494	ug/L	97

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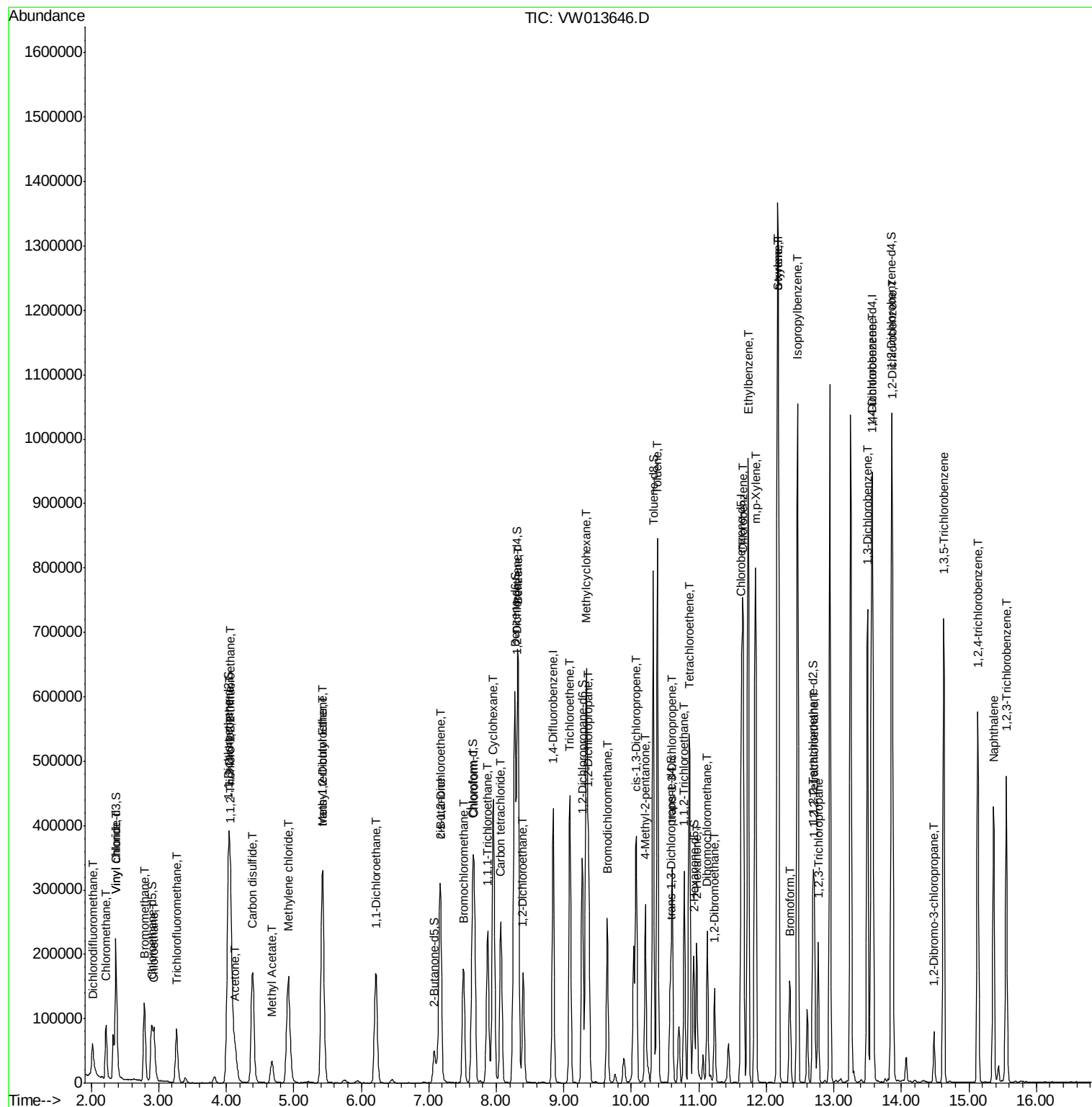
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	70266	21.741	ug/L	98
25) Chloroform	7.68	83	253567	22.386	ug/L	100
27) 1,2-Dichloroethane	8.40	62	157468	21.691	ug/L	99
30) Cyclohexane	7.96	56	247849	23.473	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	198992	23.672	ug/L	99
32) Carbon tetrachloride	8.07	117	191584	23.405	ug/L	97
34) Benzene	8.32	78	595329	23.021	ug/L	100
35) Trichloroethene	9.09	95	154604	23.302	ug/L	99
36) Methylcyclohexane	9.34	83	270155	23.101	ug/L	99
40) 1,2-Dichloropropane	9.37	63	141758	22.420	ug/L	99
41) Bromodichloromethane	9.65	83	178505	23.040	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	230920	23.132	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	181713	42.122	ug/L	100
44) Toluene	10.39	91	649241	23.368	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	181262	22.494	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	107583	22.061	ug/L	97
47) Tetrachloroethene	10.86	164	140354	23.110	ug/L	99
49) 2-Hexanone	10.97	43	129363	42.269	ug/L	98
50) Dibromochloromethane	11.13	129	128449	22.319	ug/L	93
51) 1,2-Dibromoethane	11.24	107	103356	21.795	ug/L	94
52) Chlorobenzene	11.66	112	404068	22.730	ug/L	98
53) Ethylbenzene	11.73	91	702928	22.898	ug/L	99
54) m,p-Xylene	11.84	106	276035	23.269	ug/L	100
55) o-xylene	12.16	106	257259	22.852	ug/L	100
56) Styrene	12.18	104	449868	23.360	ug/L	100
57) Isopropylbenzene	12.46	105	701560	23.234	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	126095	22.062	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	93127	21.849	ug/L	97
62) Bromoform	12.35	173	80339	21.599	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	326018	22.138	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	325759	22.013	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	296153	22.195	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	19120	20.848	ug/L #	74
67) 1,3,5-Trichlorobenzene	14.63	180	246125	22.481	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	205692	22.130	ug/L	99
69) Naphthalene	15.36	128	377315	22.403	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	182711	21.951	ug/L	100

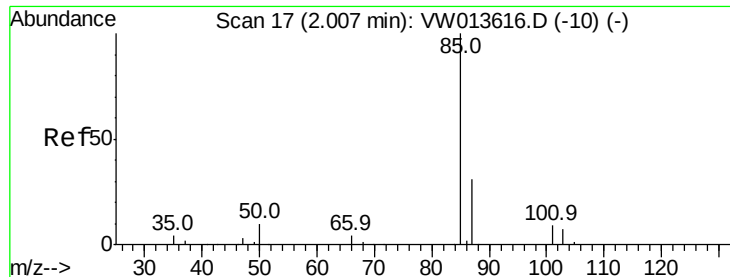
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 19.986 ug/L

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

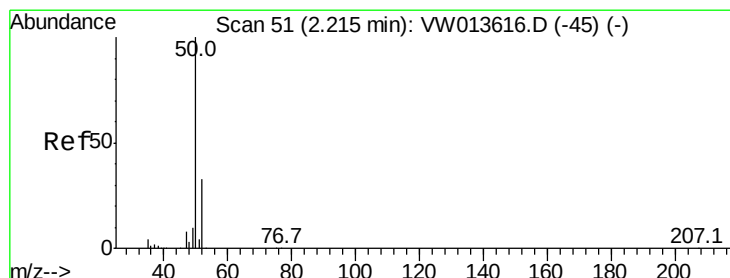
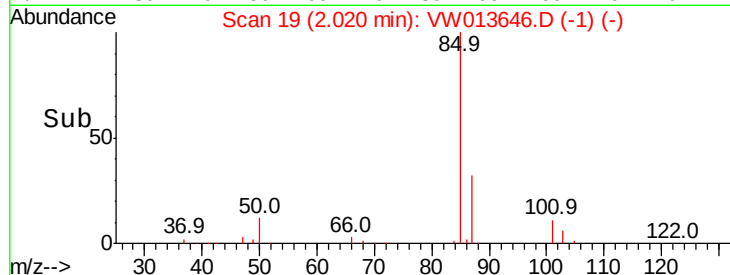
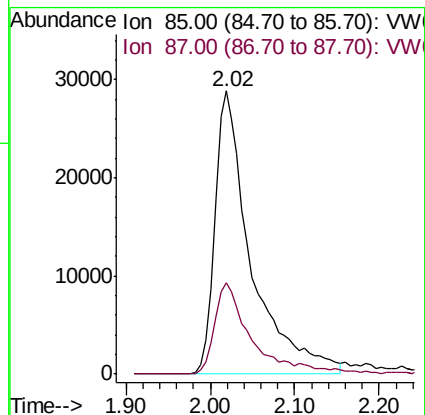
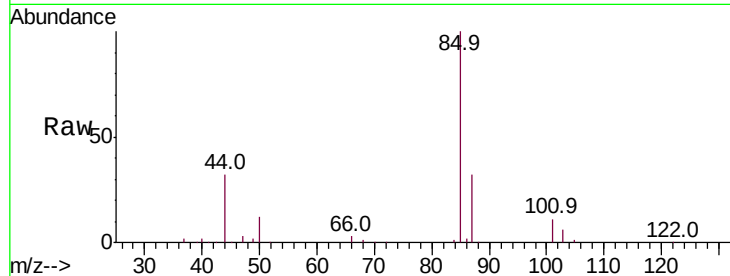
VSTD02526

Tot Ion: 85 Resp: 85238

Ion Ratio Lower Upper

85 100

87 28.4 20.2 37.4



#3

Chloromethane

Concen: 18.858 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW013646.D

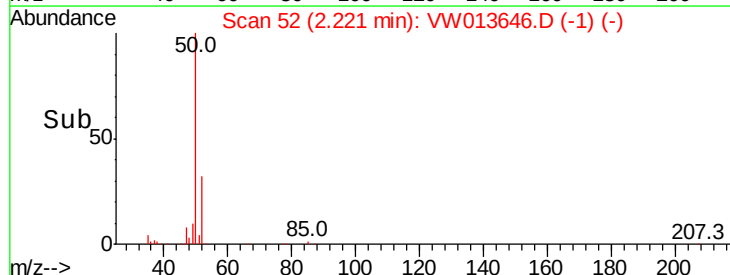
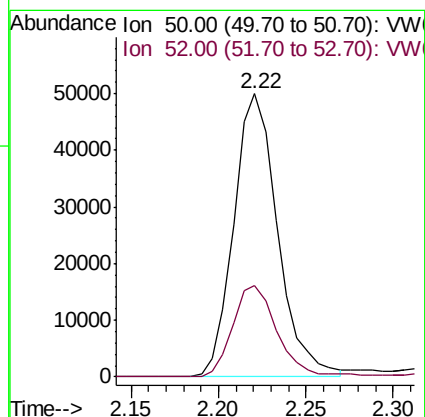
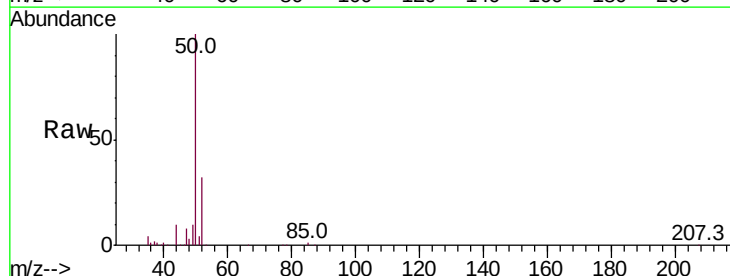
Acq: 22 Oct 2019 10:30

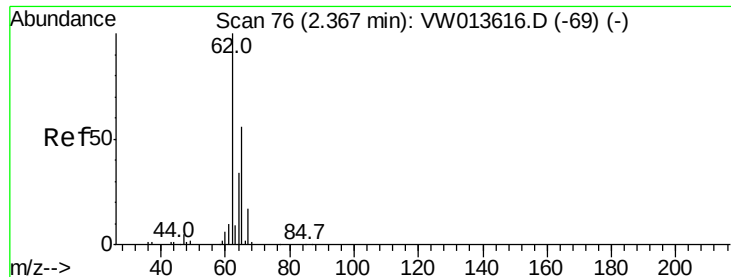
Tgt Ion: 50 Resp: 87063

Ion Ratio Lower Upper

50 100

52 32.3 23.3 43.3





#5

Vinyl chloride

Concen: 24.501 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

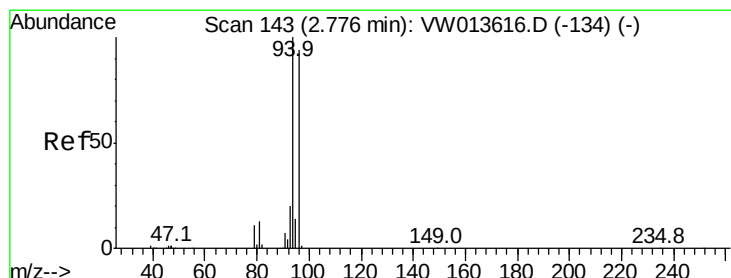
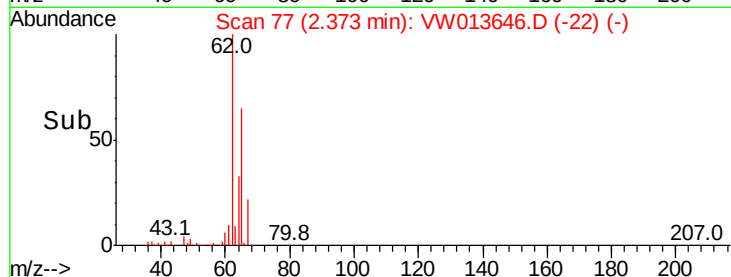
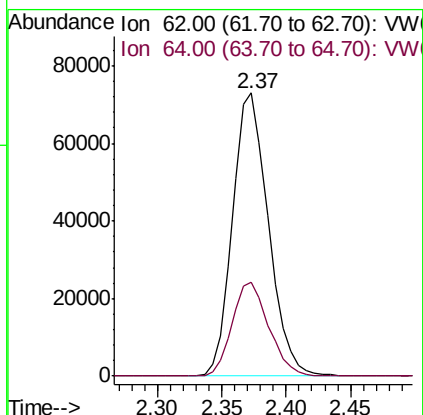
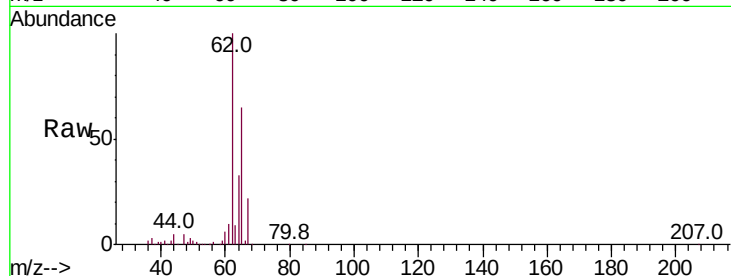
VSTD02526

Tot Ion: 62 Resp: 141358

Ion Ratio Lower Upper

62 100

64 33.0 23.9 44.5



#6

Bromomethane

Concen: 21.757 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW013646.D

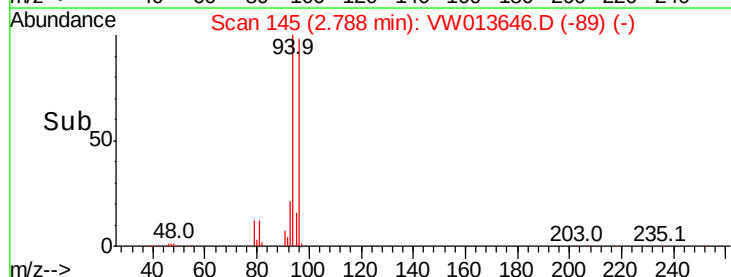
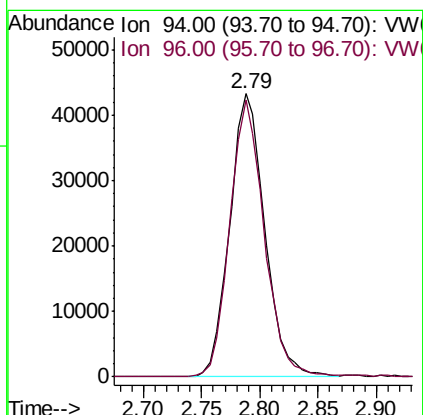
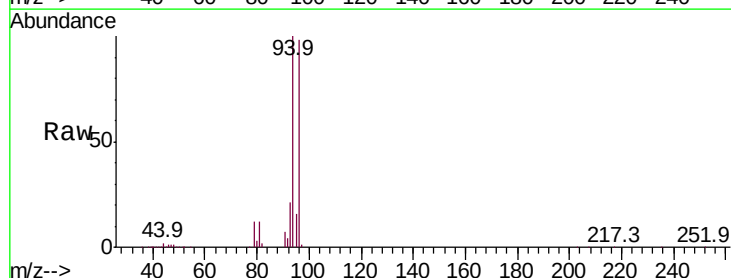
Acq: 22 Oct 2019 10:30

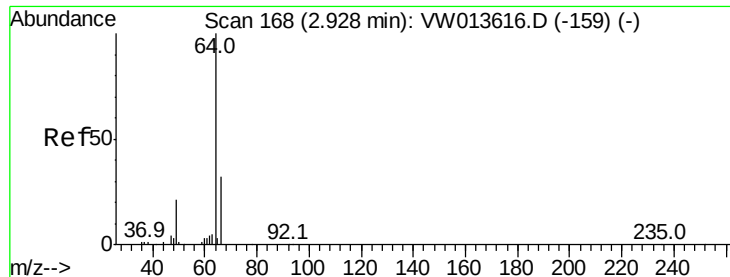
Tgt Ion: 94 Resp: 90702

Ion Ratio Lower Upper

94 100

96 95.7 9.3 176.9





#8

Chloroethane

Concen: 22.177 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

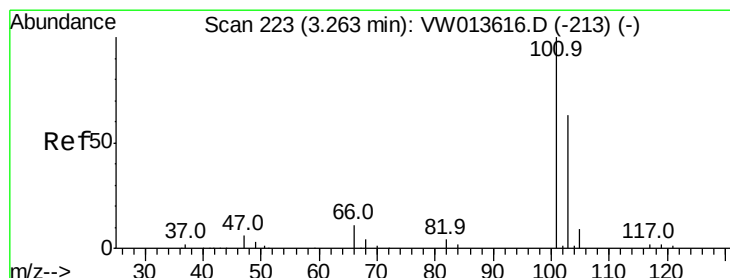
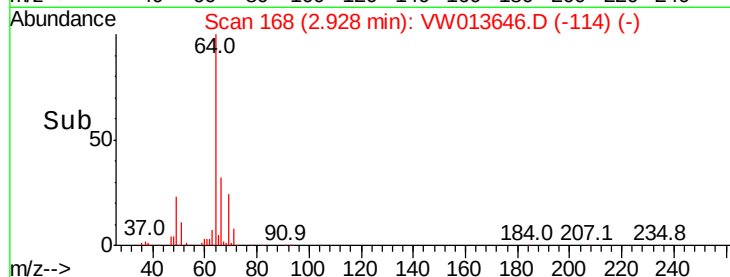
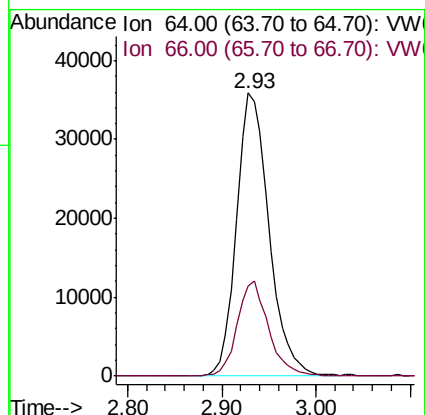
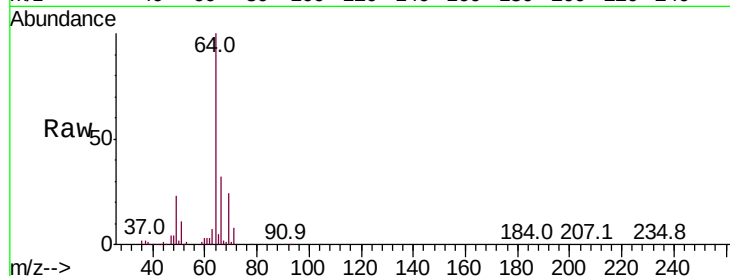
VSTD02526

Tot Ion: 64 Resp: 86468

Ion Ratio Lower Upper

64 100

66 32.1 22.2 41.2



#9

Trichlorofluoromethane

Concen: 24.273 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW013646.D

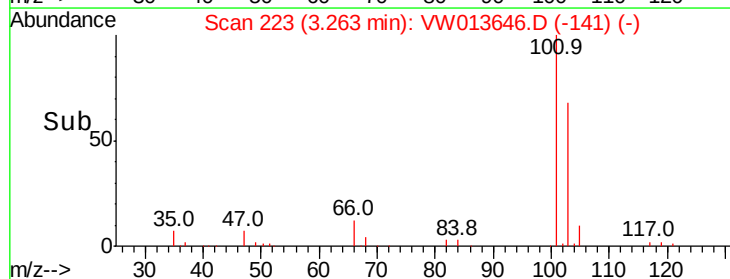
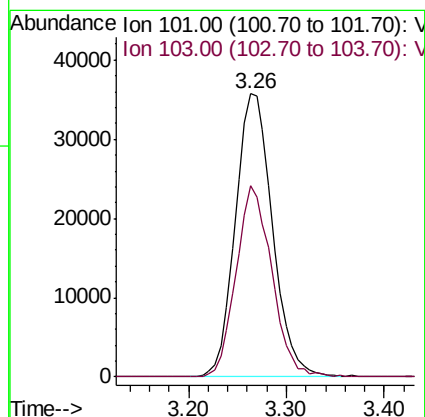
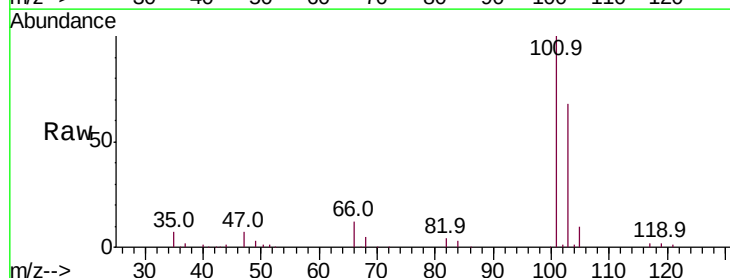
Acq: 22 Oct 2019 10:30

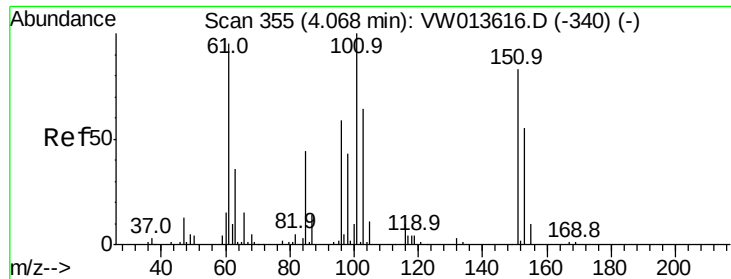
Tgt Ion: 101 Resp: 94391

Ion Ratio Lower Upper

101 100

103 64.4 46.5 86.5





#11

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

Concen: 22.600 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

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ClientSampleId :

VSTD02526

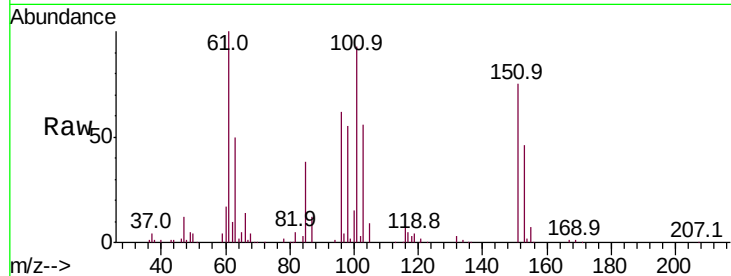
Tot Ion:101 Resp: 138387

Ion Ratio Lower Upper

101 100

85 40.3 32.0 48.0

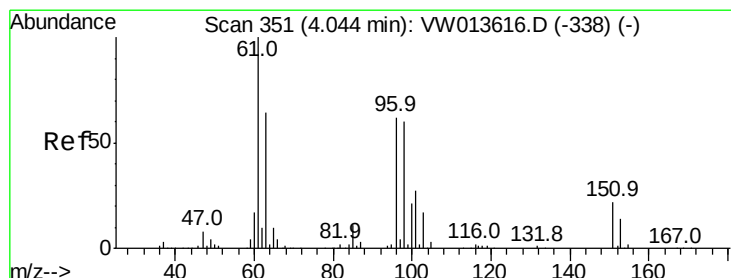
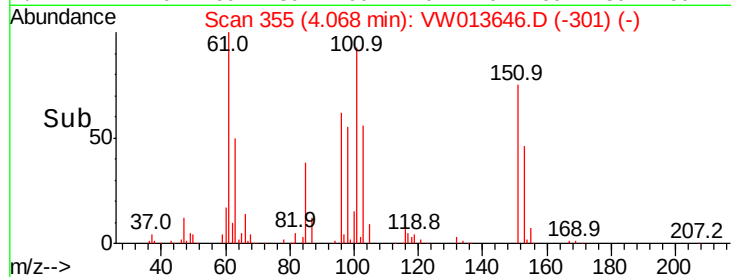
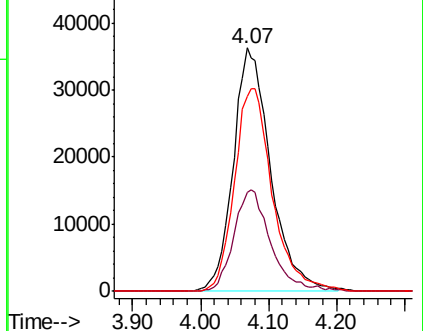
151 84.7 66.9 100.3



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: 23.287 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

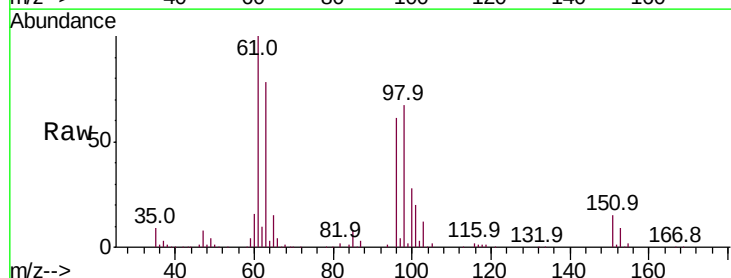
Tgt Ion: 96 Resp: 140335

Ion Ratio Lower Upper

96 100

61 163.9 112.7 209.3

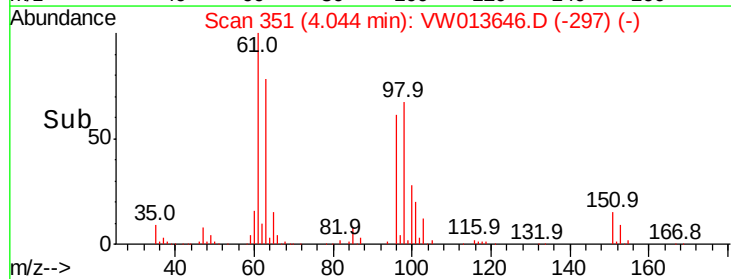
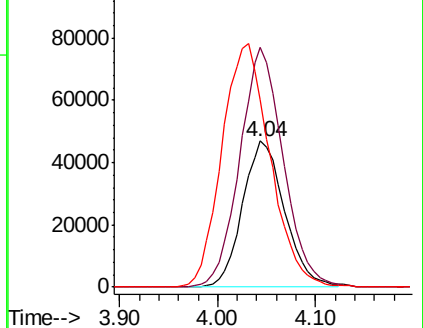
63 127.7 72.8 135.2

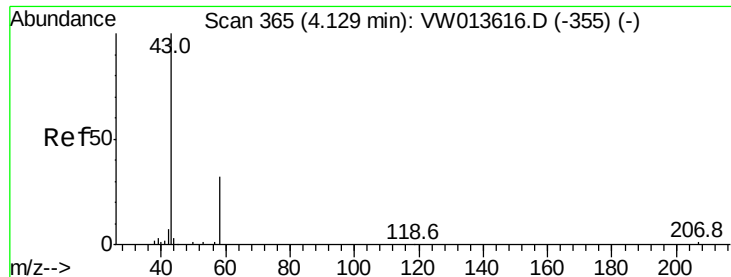


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 37.412 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW013646.D

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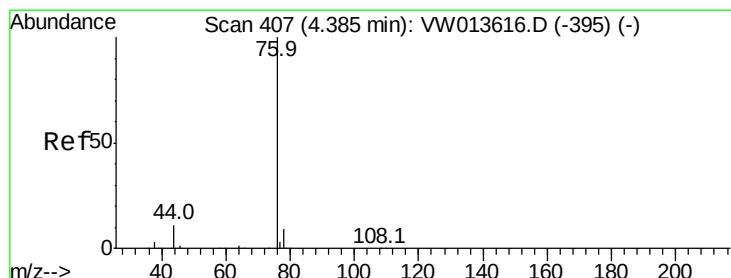
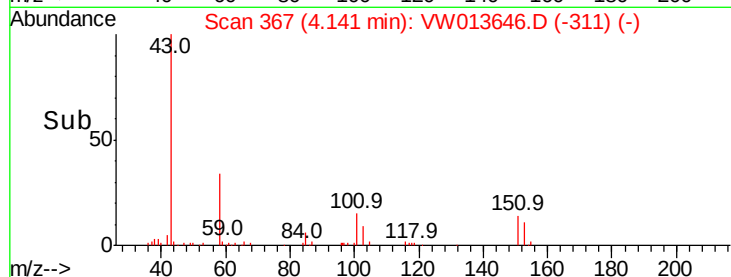
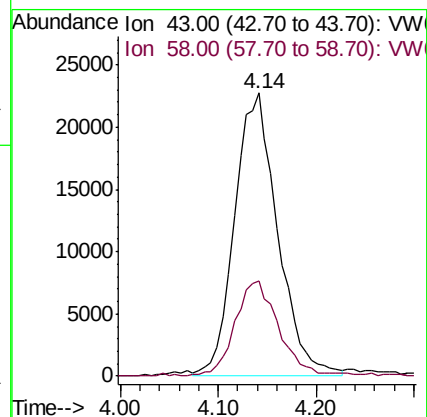
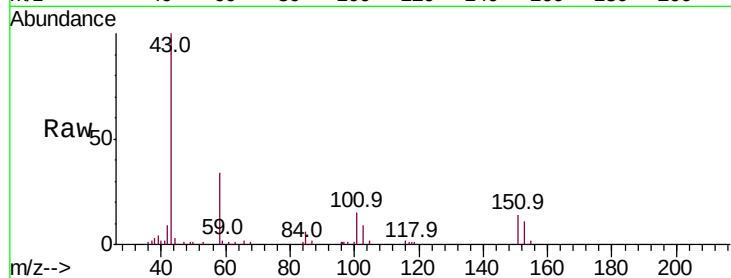
VSTD02526

Tot Ion: 43 Resp: 69092

Ion Ratio Lower Upper

43 100

58 34.0 0.0 70.4



#14

Carbon disulfide

Concen: 23.872 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013646.D

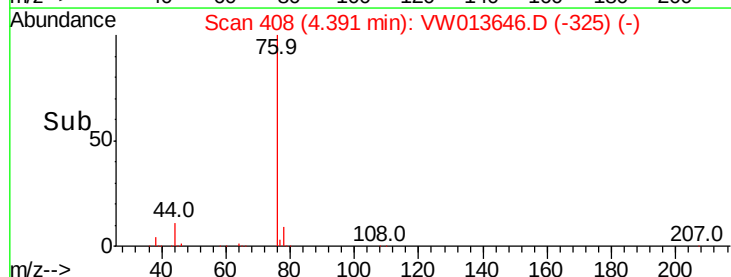
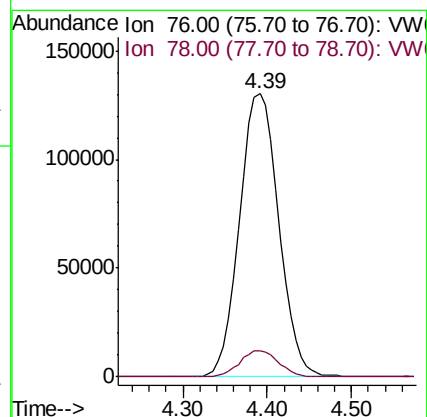
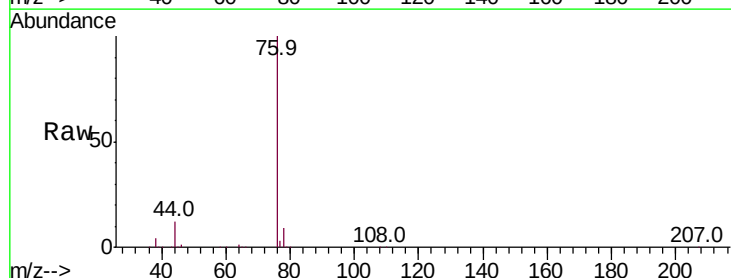
Acq: 22 Oct 2019 10:30

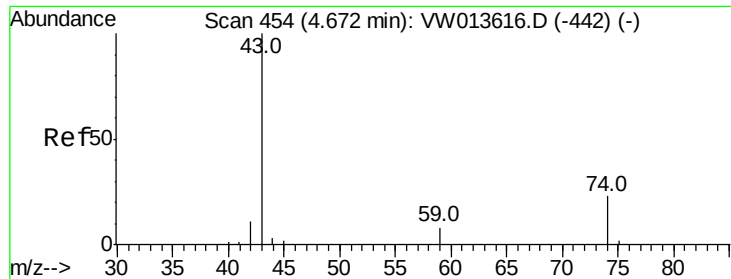
Tgt Ion: 76 Resp: 411638

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7

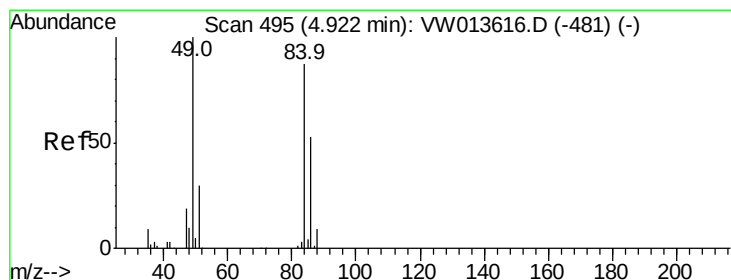
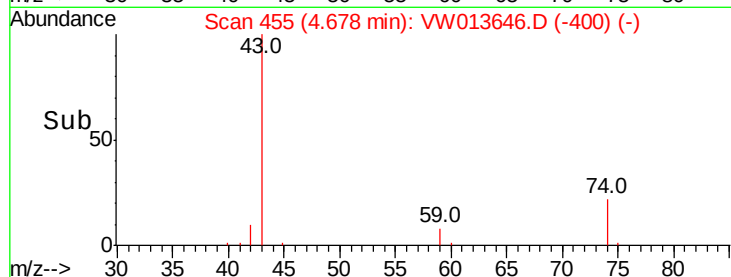
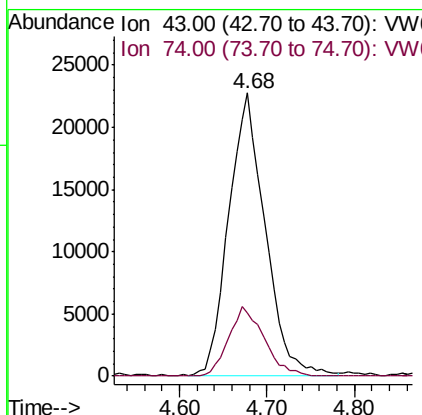
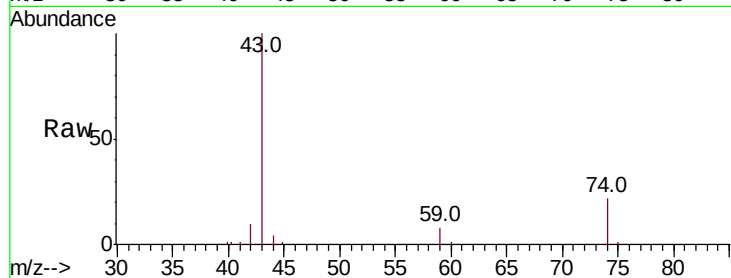




#15
Methyl Acetate
Concen: 21.664 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW013646.D
Acq: 22 Oct 2019 10:30

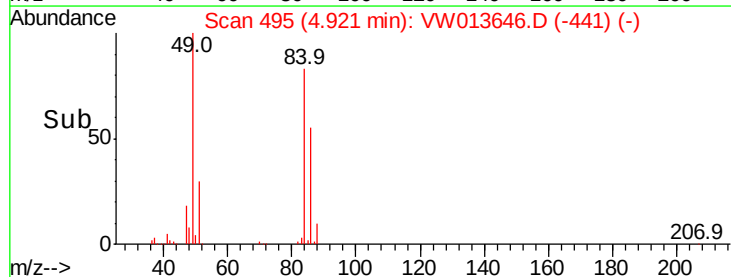
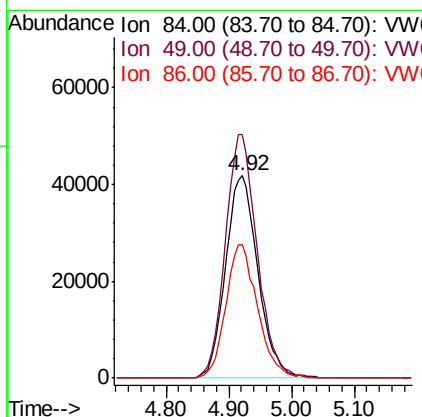
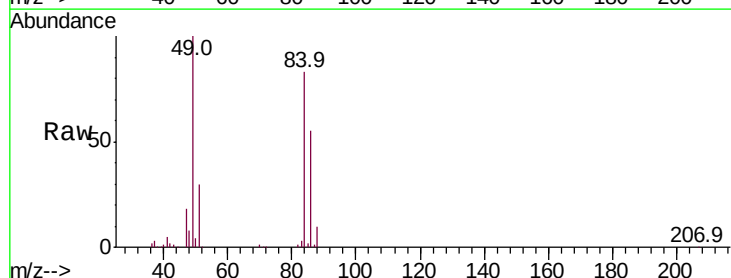
Instrument :
MSVOA_W
ClientSampleId :
VSTD02526

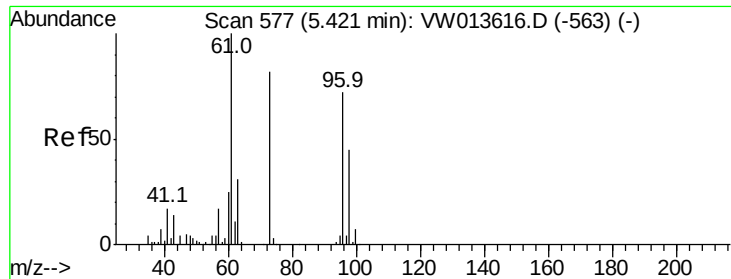
Tot Ion: 43 Resp: 65371
Ion Ratio Lower Upper
43 100
74 24.2 19.2 28.8



#16
Methylene chloride
Concen: 20.577 ug/L
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW013646.D
Acq: 22 Oct 2019 10:30

Tgt Ion: 84 Resp: 149409
Ion Ratio Lower Upper
84 100
49 120.1 80.2 148.9
86 65.8 42.7 79.3

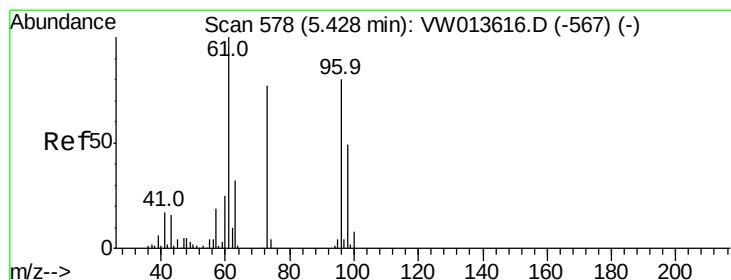
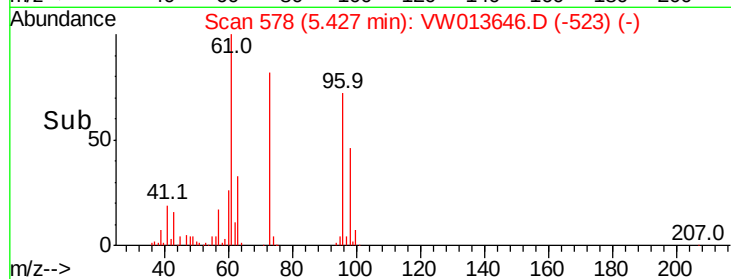
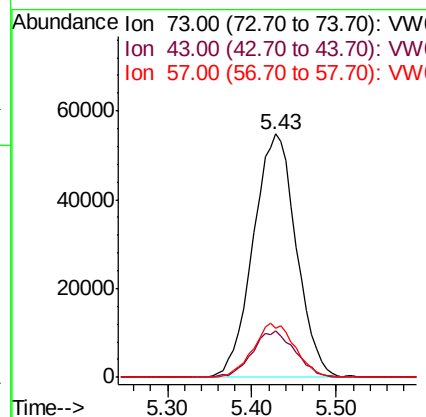
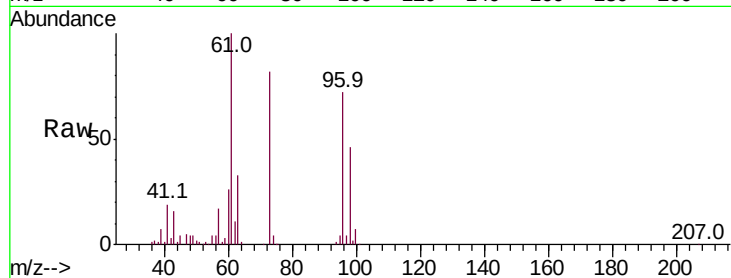




#17
Methyl tert-butyl Ether
Concen: 22.967 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW013646.D
Acq: 22 Oct 2019 10:30

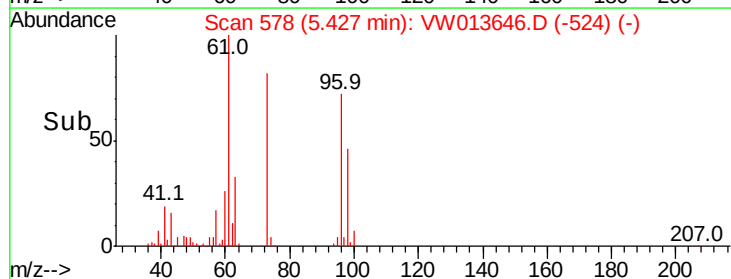
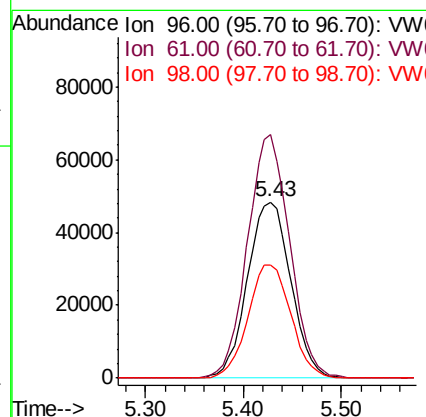
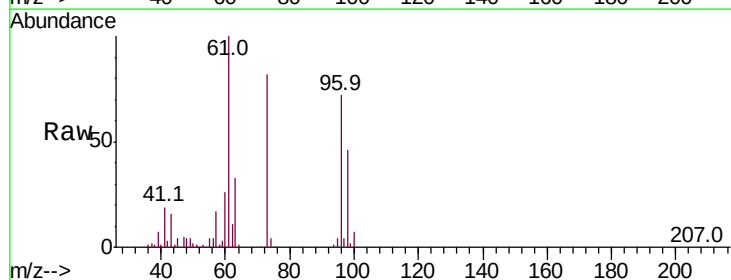
Instrument :
MSVOA_W
ClientSampleId :
VSTD02526

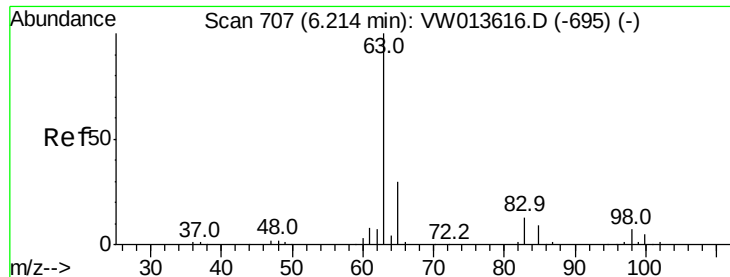
Tot Ion: 73 Resp: 191503
Ion Ratio Lower Upper
73 100
43 18.4 15.4 23.2
57 21.7 17.7 26.5



#18
trans-1,2-Dichloroethene
Concen: 22.355 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW013646.D
Acq: 22 Oct 2019 10:30

Tgt Ion: 96 Resp: 148919
Ion Ratio Lower Upper
96 100
61 138.1 88.4 164.2
98 63.8 43.0 79.8





#19

1,1-Dichloroethane

Concen: 22.672 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampled :

VSTD02526

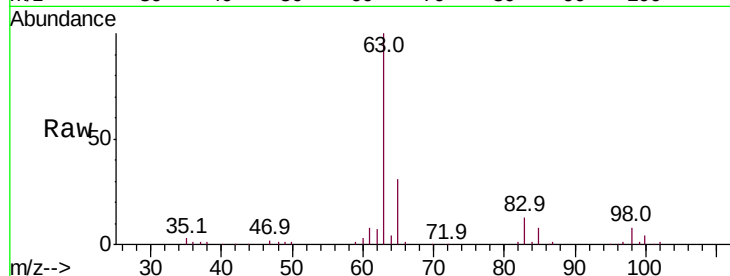
Tot Ion: 63 Resp: 255649

Ion Ratio Lower Upper

63 100

65 31.1 20.9 38.7

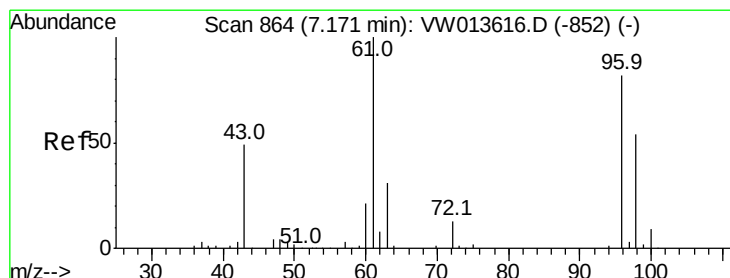
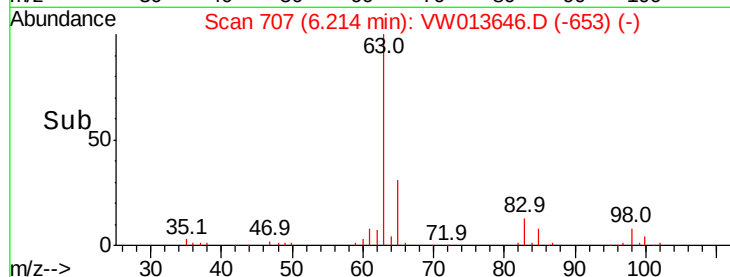
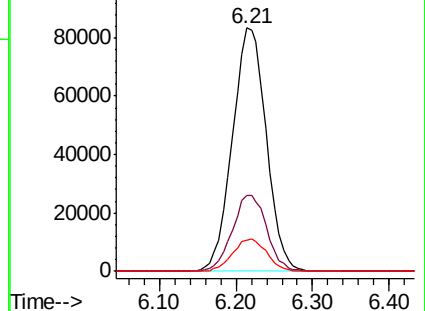
83 13.0 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 39.794 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013646.D

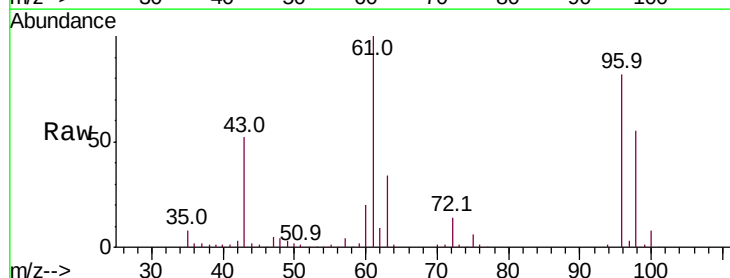
Acq: 22 Oct 2019 10:30

Tgt Ion: 43 Resp: 93309

Ion Ratio Lower Upper

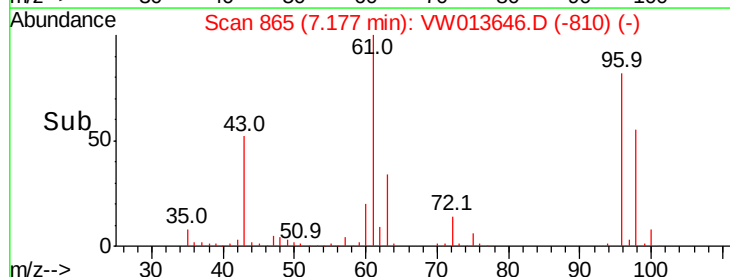
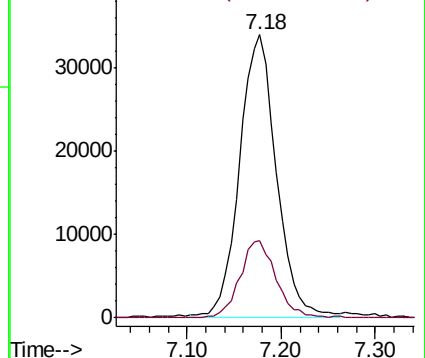
43 100

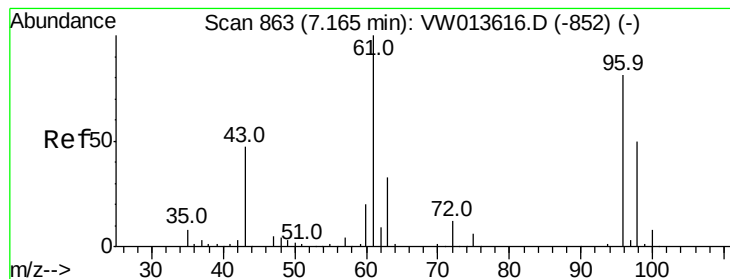
72 26.4 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#22

cis-1,2-Dichloroethene

Concen: 22.494 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

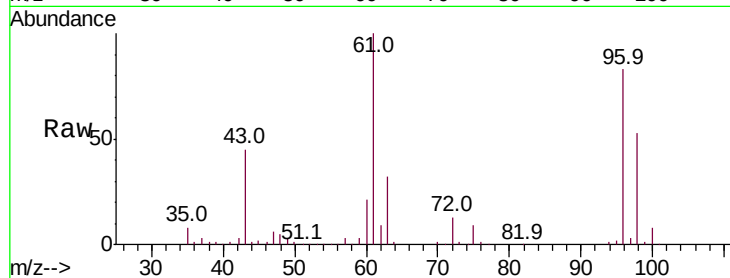
Tot Ion: 96 Resp: 160841

Ion Ratio Lower Upper

96 100

61 120.0 86.2 160.0

98 63.6 43.0 79.8

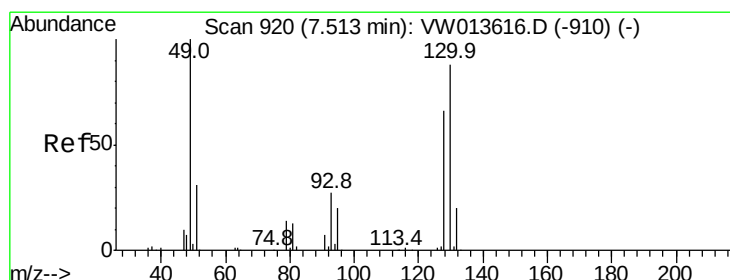
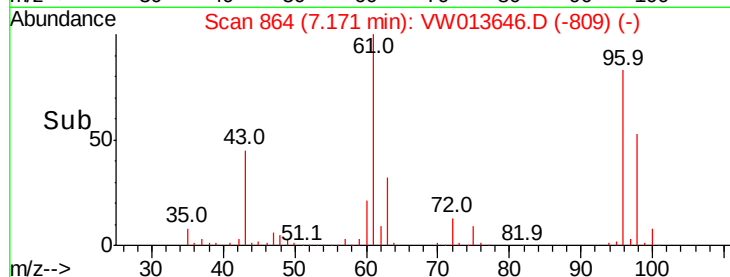
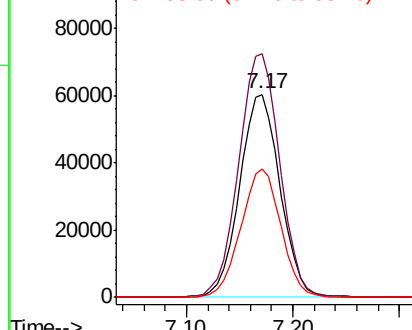


Abundance

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



#23

Bromochloromethane

Concen: 21.741 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Tgt Ion: 128 Resp: 70266

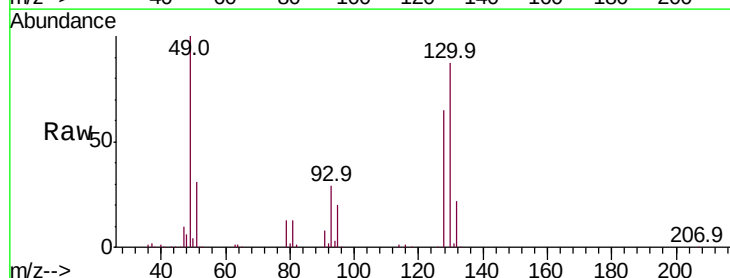
Ion Ratio Lower Upper

128 100

49 154.5 106.3 197.3

130 134.7 93.2 173.2

51 48.1 37.4 56.0



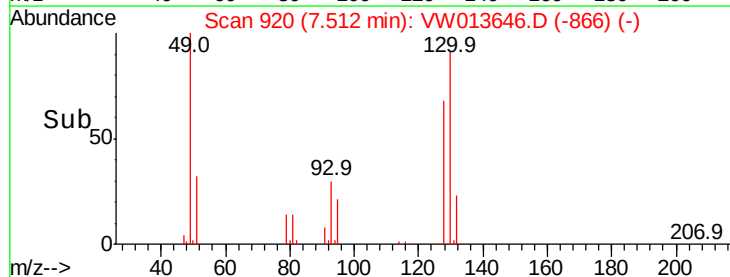
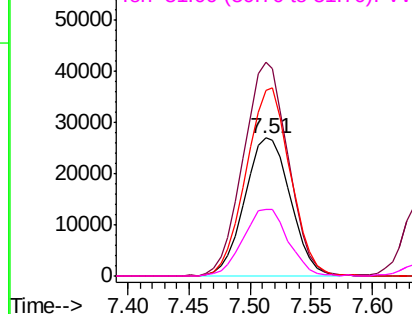
Abundance

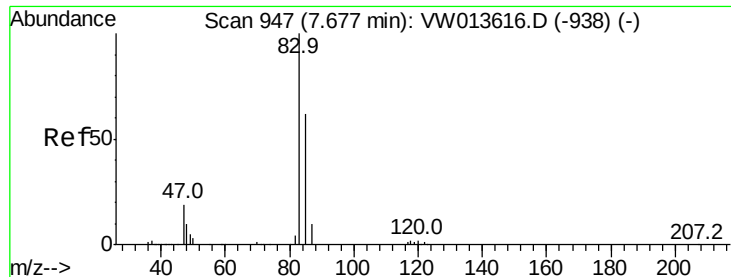
Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 22.386 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

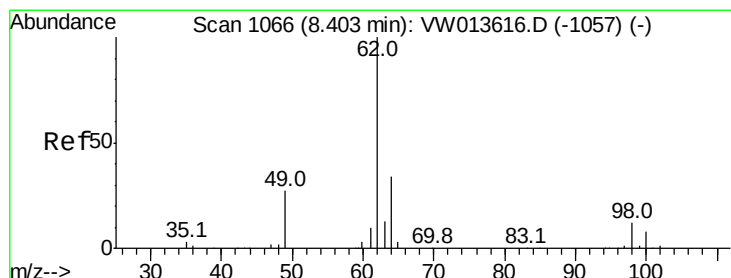
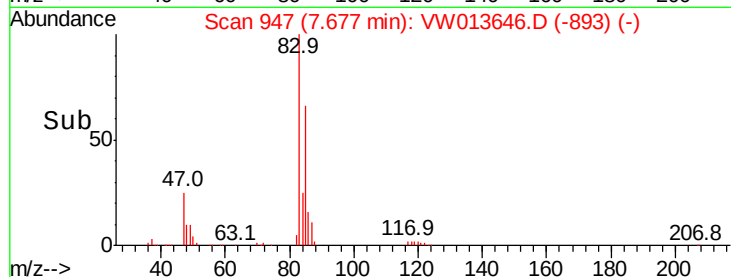
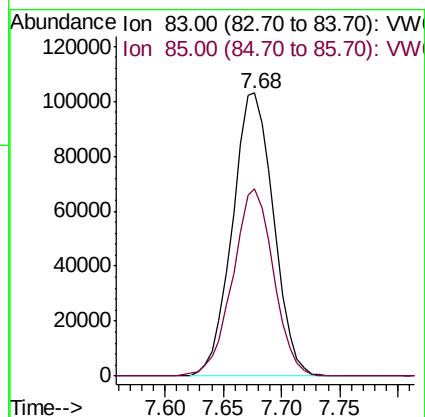
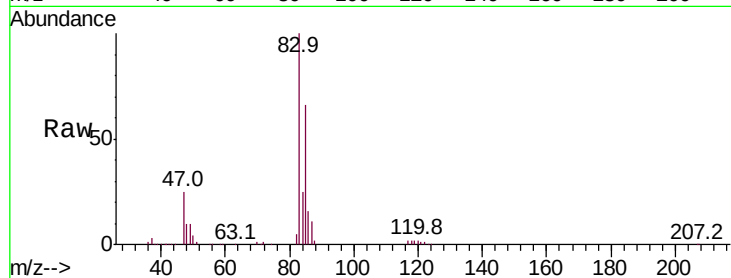
VSTD02526

Tot Ion: 83 Resp: 253567

Ion Ratio Lower Upper

83 100

85 65.8 46.1 85.7



#27

1,2-Dichloroethane

Concen: 21.691 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW013646.D

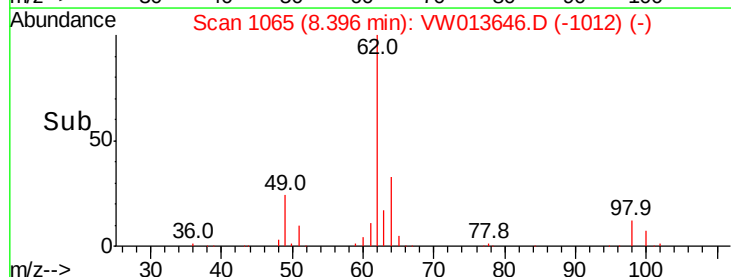
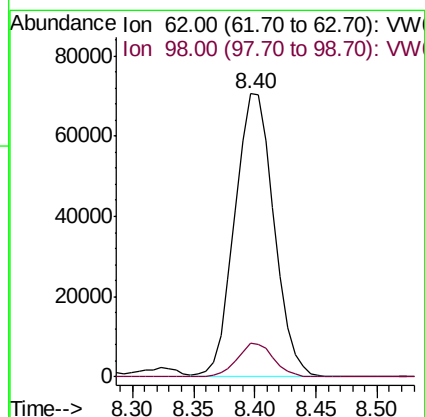
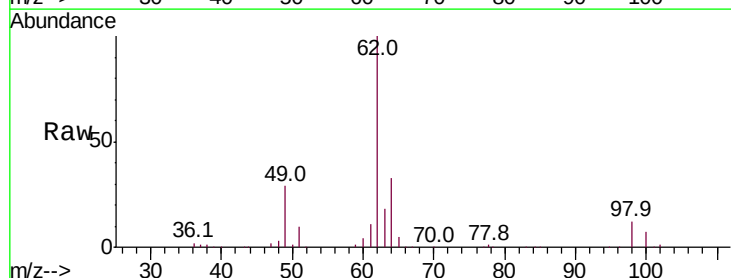
Acq: 22 Oct 2019 10:30

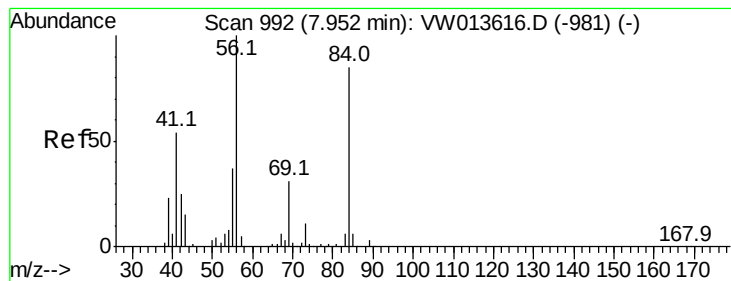
Tgt Ion: 62 Resp: 157468

Ion Ratio Lower Upper

62 100

98 11.8 9.6 14.4





#30

Cyclohexane

Concen: 23.473 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

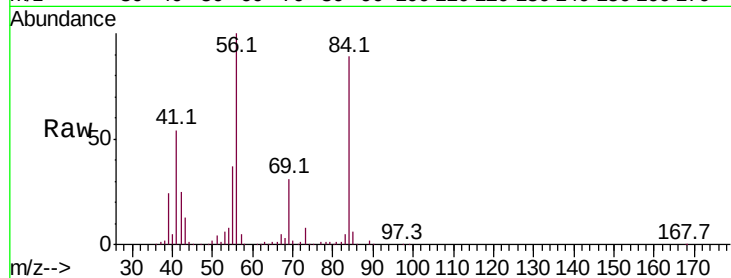
Tot Ion: 56 Resp: 247849

Ion Ratio Lower Upper

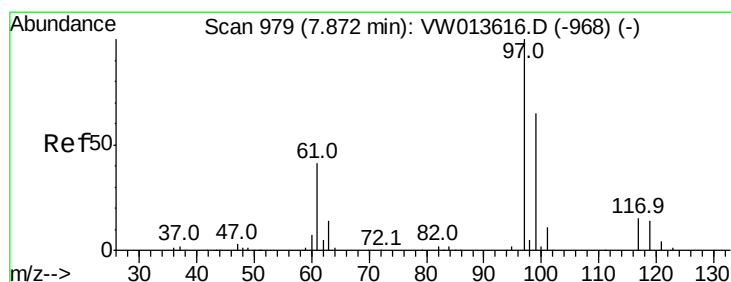
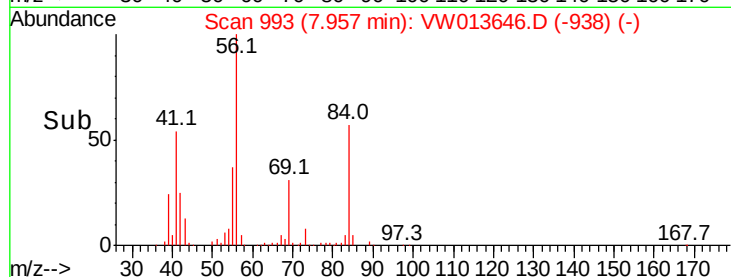
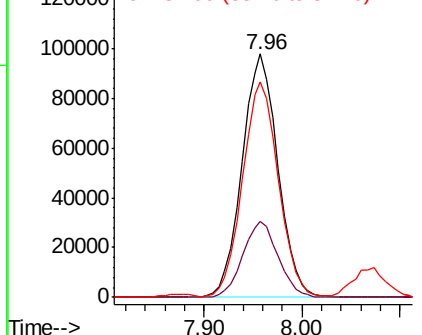
56 100

69 30.8 24.6 37.0

84 89.2 71.1 106.7



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: 23.672 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

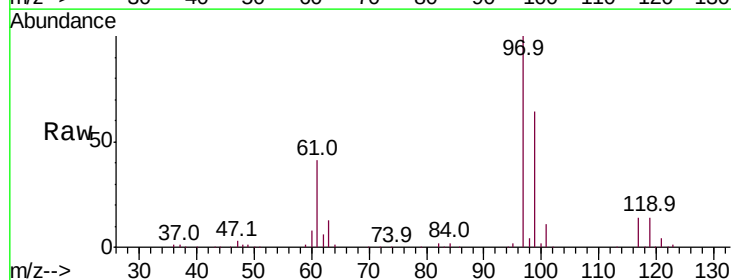
Tgt Ion: 97 Resp: 198992

Ion Ratio Lower Upper

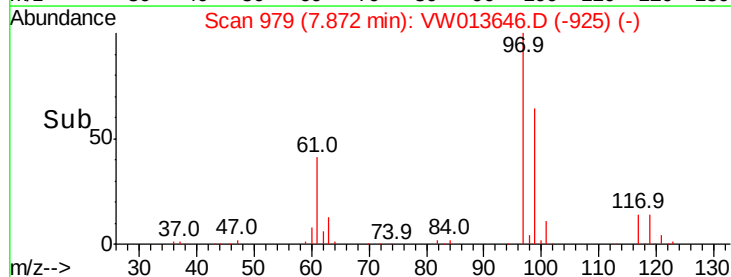
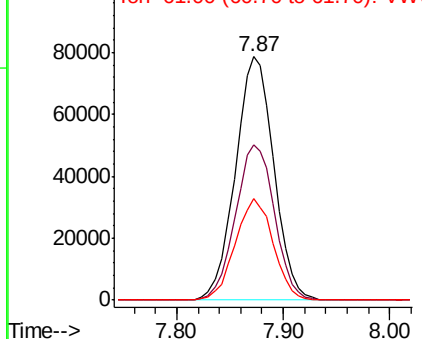
97 100

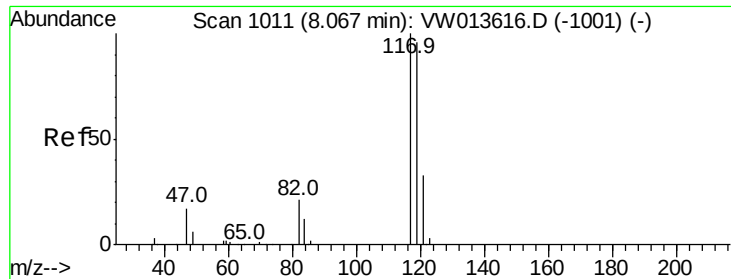
99 65.0 51.7 77.5

61 41.2 33.8 50.8



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: 23.405 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

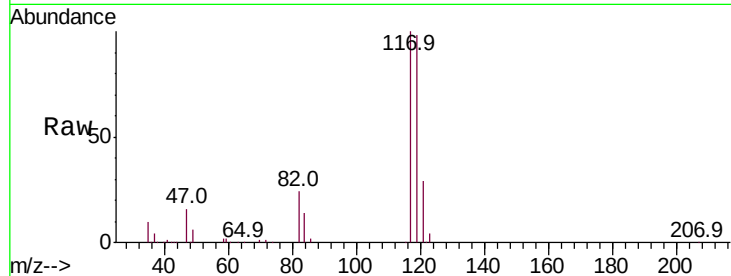
VSTD02526

Tot Ion:117 Resp: 191584

Ion Ratio Lower Upper

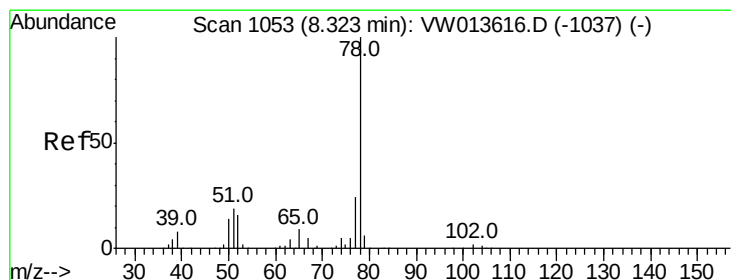
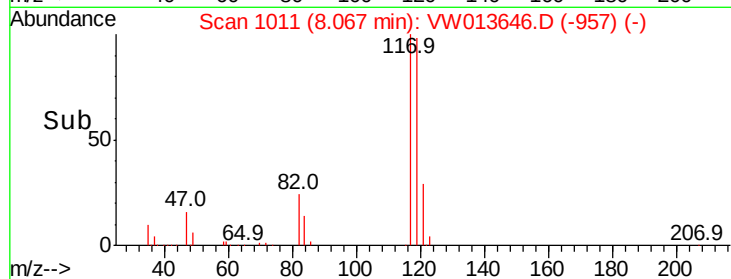
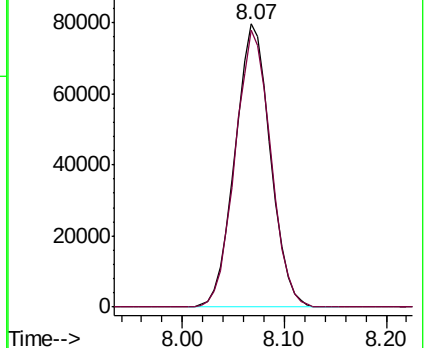
117 100

119 98.3 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.021 ug/L

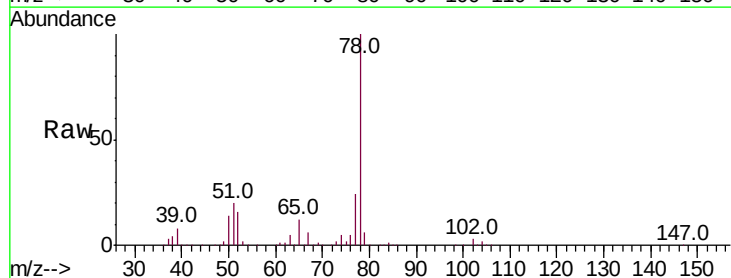
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

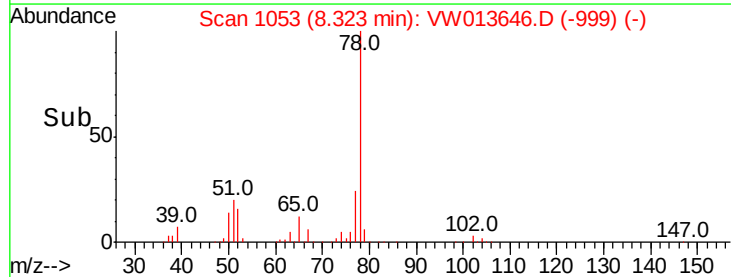
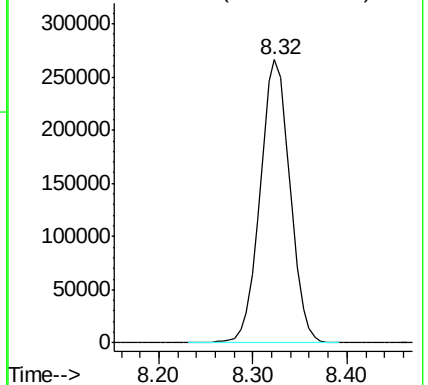
Lab File: VW013646.D

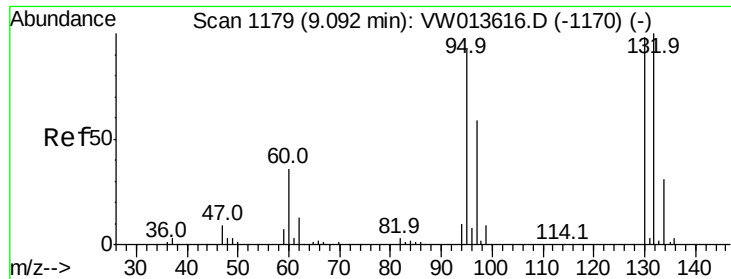
Acq: 22 Oct 2019 10:30

Tgt Ion: 78 Resp: 595329



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.302 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

Tot Ion: 95 Resp: 154604

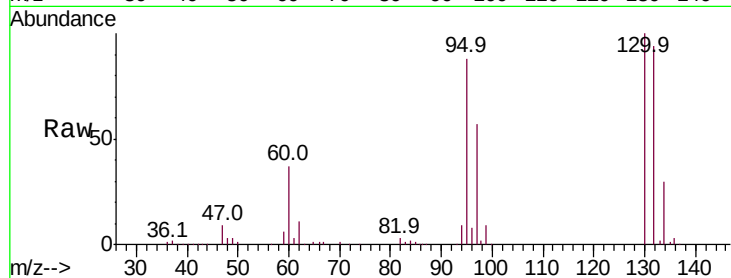
Ion Ratio Lower Upper

95 100

97 64.3 45.8 85.2

132 105.3 74.3 138.1

130 110.9 76.6 142.3

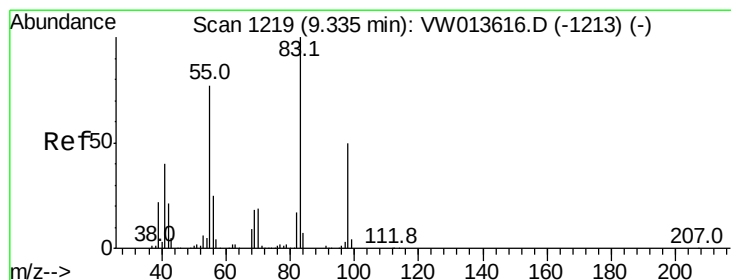
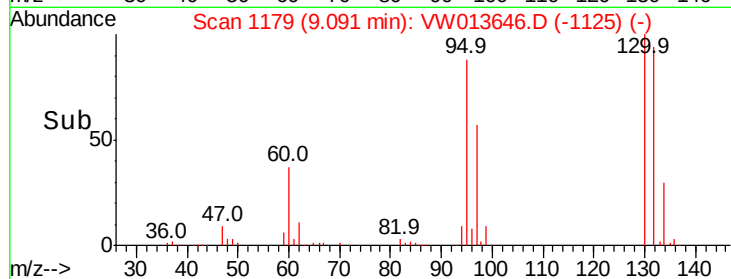
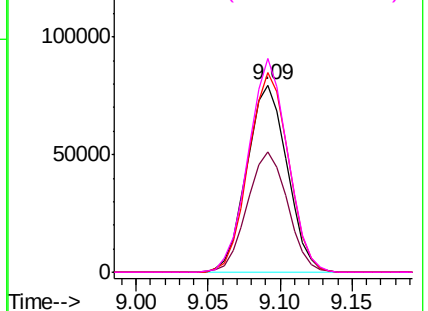


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 23.101 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

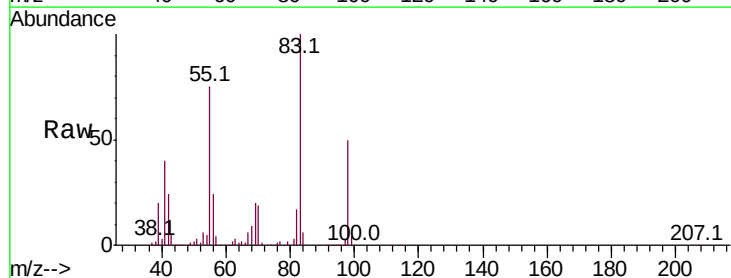
Tgt Ion: 83 Resp: 270155

Ion Ratio Lower Upper

83 100

55 74.9 60.2 90.4

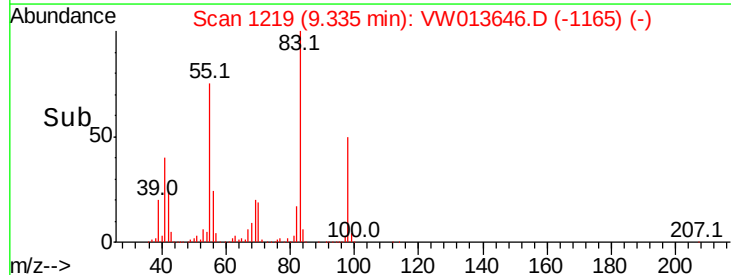
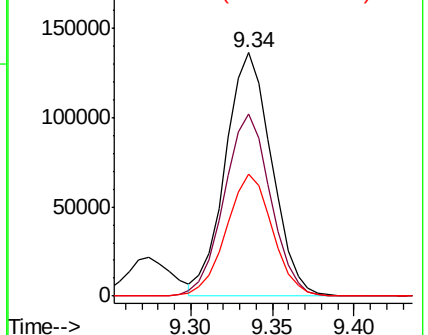
98 49.9 39.1 58.7

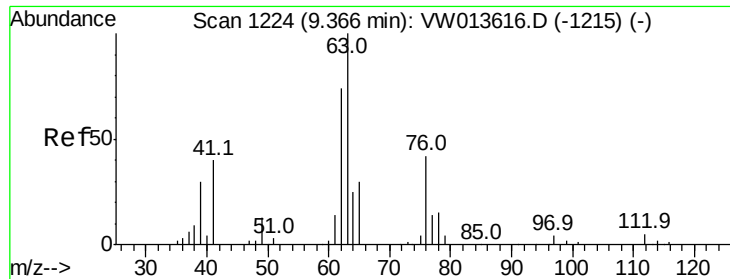


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 22.420 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

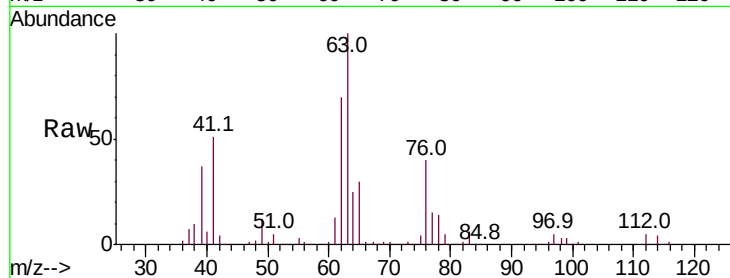
VSTD02526

Tot Ion: 63 Resp: 141758

Ion Ratio Lower Upper

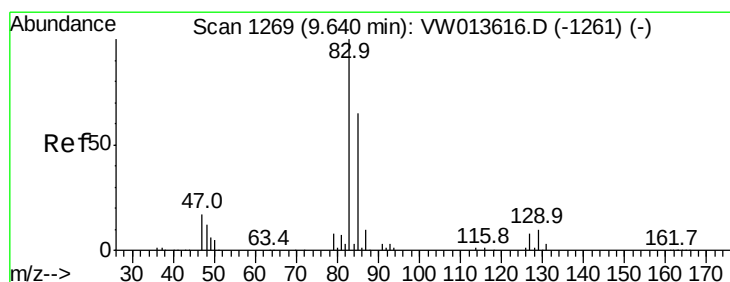
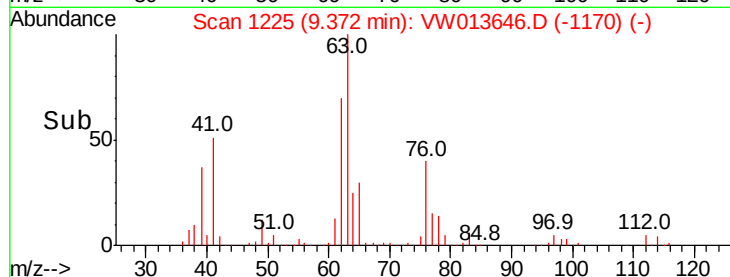
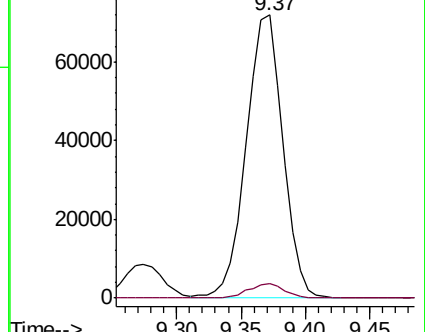
63 100

112 5.1 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 23.040 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

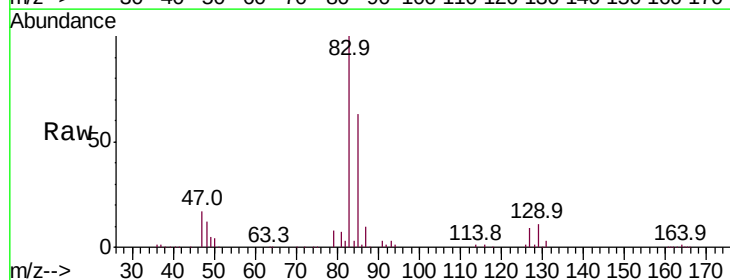
Tgt Ion: 83 Resp: 178505

Ion Ratio Lower Upper

83 100

85 63.5 45.8 85.0

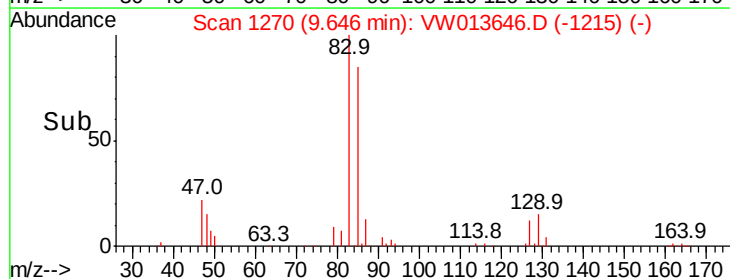
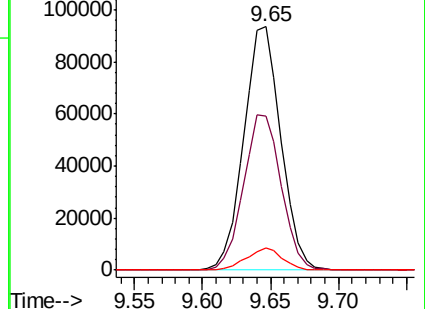
127 9.2 6.6 10.0

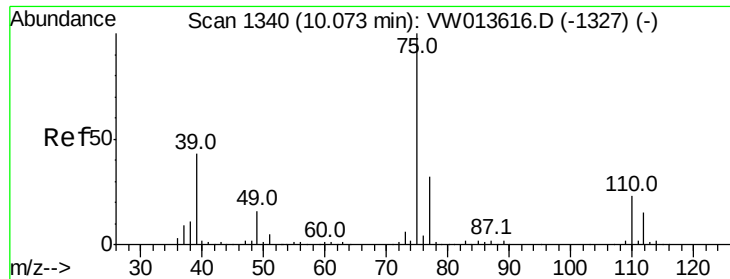


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 23.132 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

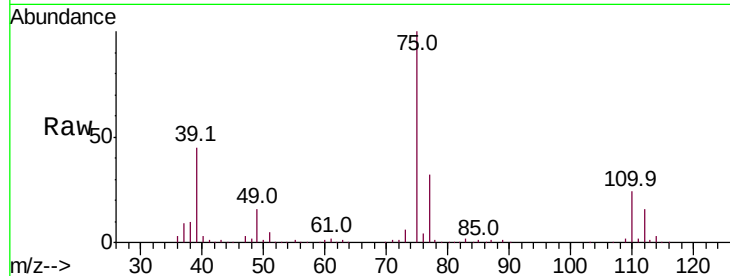
VSTD02526

Tot Ion: 75 Resp: 230920

Ion Ratio Lower Upper

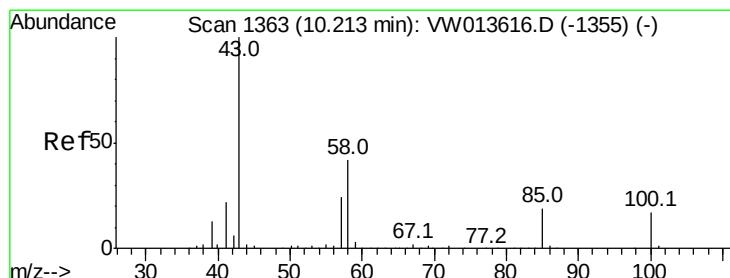
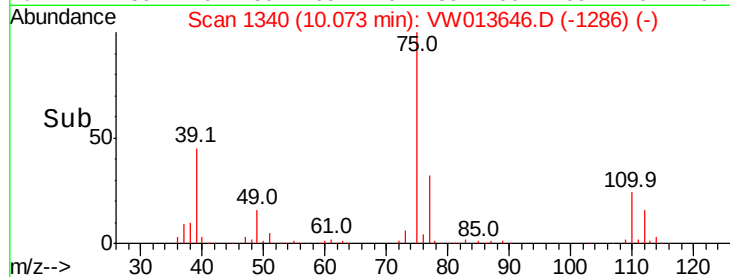
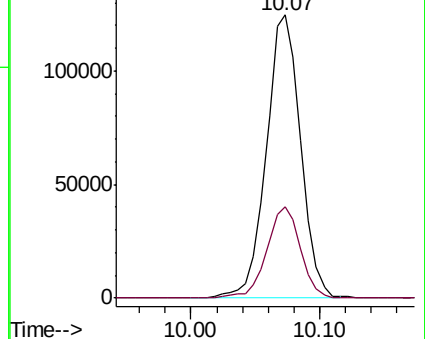
75 100

77 32.3 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#43

4-Methyl-2-pentanone

Concen: 42.122 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

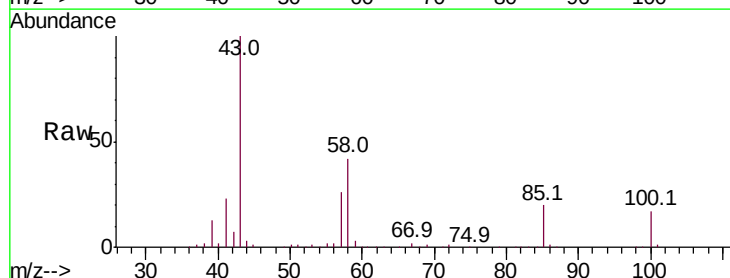
Tgt Ion: 43 Resp: 181713

Ion Ratio Lower Upper

43 100

58 41.1 32.8 49.2

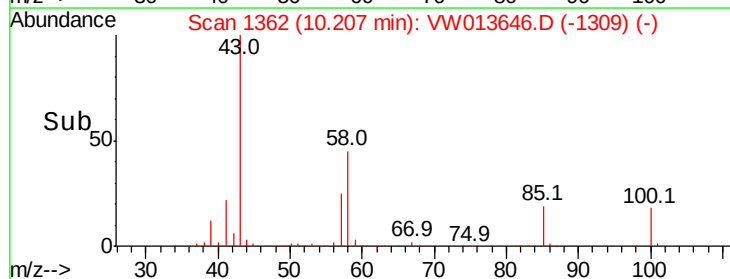
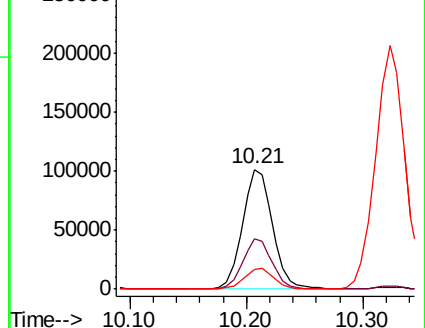
100 17.2 13.7 20.5

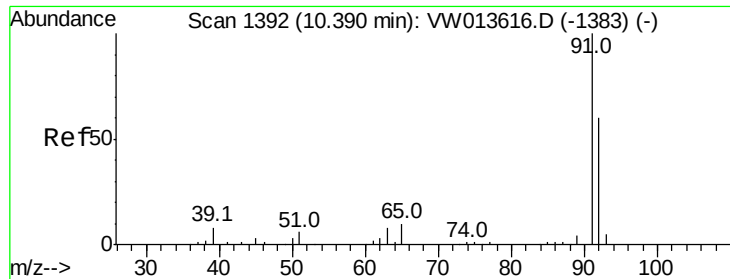


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW





#44

Toluene

Concen: 23.368 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

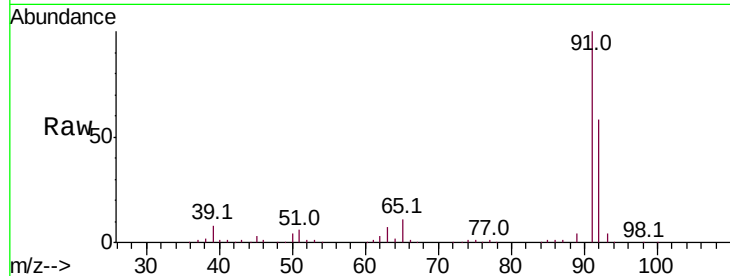
VSTD02526

Tot Ion: 91 Resp: 649241

Ion Ratio Lower Upper

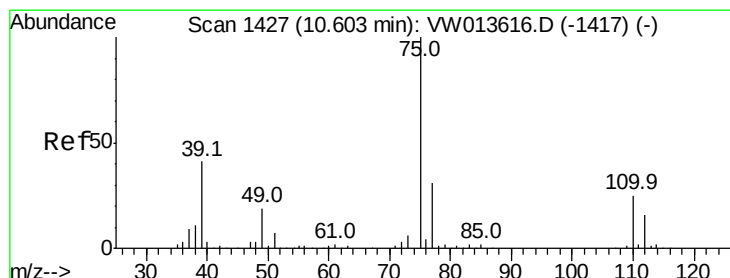
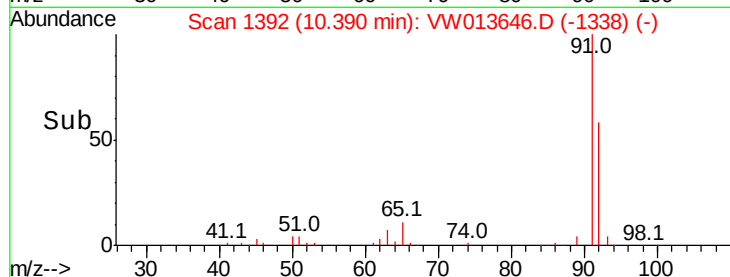
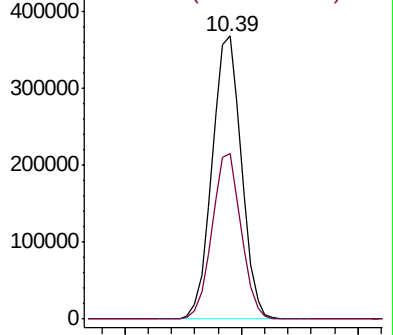
91 100

92 58.4 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW



#45

trans-1,3-Dichloropropene

Concen: 22.494 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013646.D

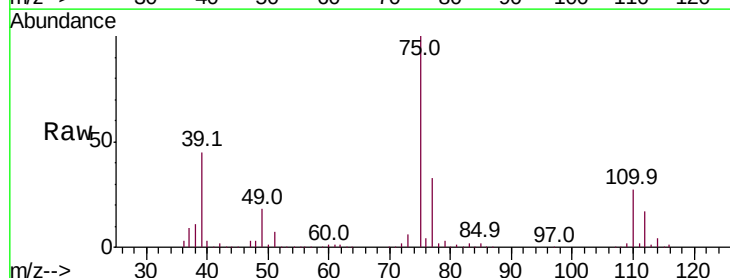
Acq: 22 Oct 2019 10:30

Tgt Ion: 75 Resp: 181262

Ion Ratio Lower Upper

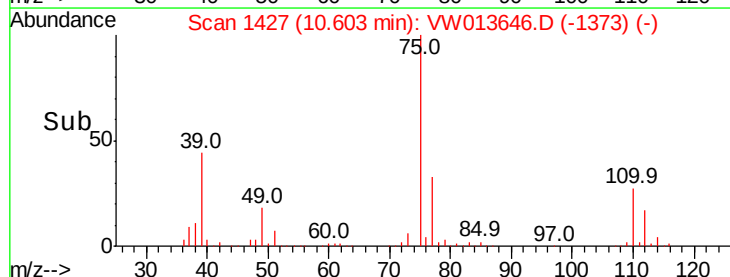
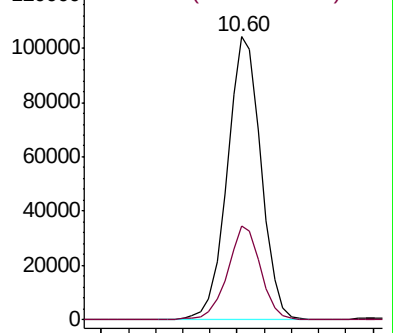
75 100

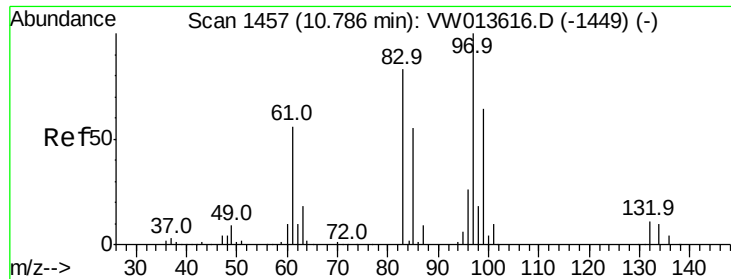
77 33.2 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#46

1,1,2-Trichloroethane

Concen: 22.061 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

Tot Ion: 97 Resp: 107583

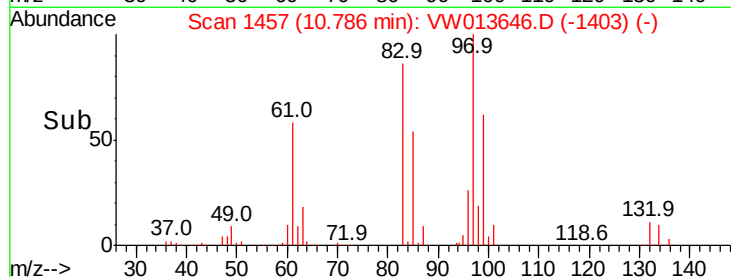
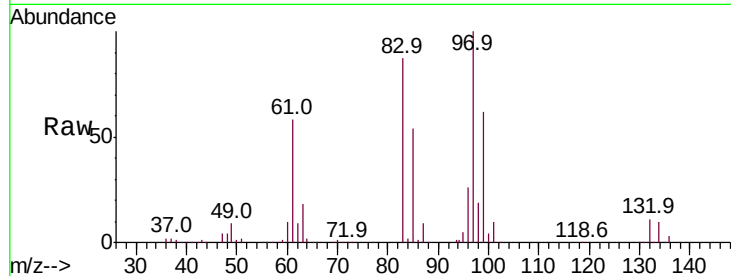
Ion	Ratio	Lower	Upper
97	100		
83	86.5	57.7	107.3
85	54.1	38.6	71.6
99	62.1	44.7	82.9

97 100

83 86.5 57.7 107.3

85 54.1 38.6 71.6

99 62.1 44.7 82.9



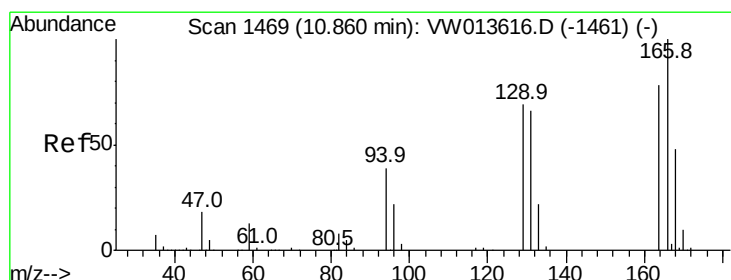
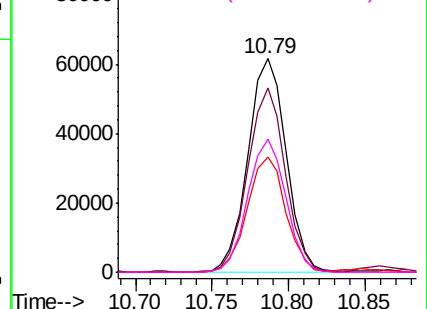
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 23.110 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Tgt Ion: 164 Resp: 140354

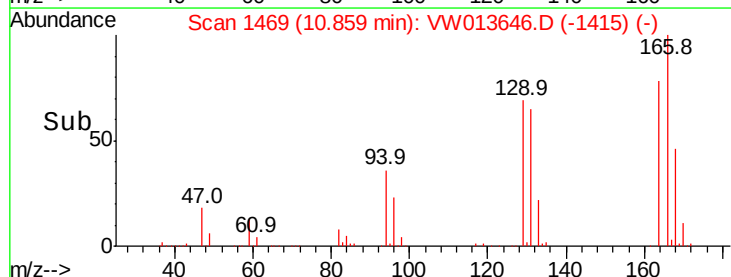
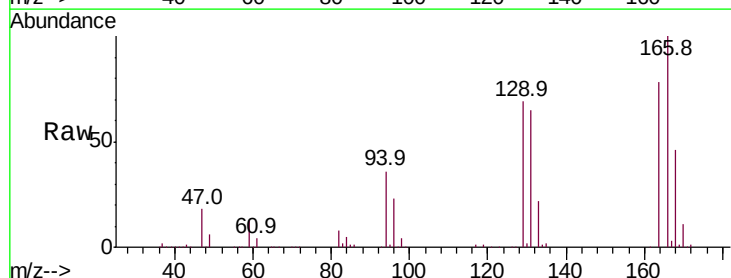
Ion	Ratio	Lower	Upper
164	100		
129	88.6	61.8	114.8
131	84.0	59.2	110.0
166	128.9	89.2	165.8

164 100

129 88.6 61.8 114.8

131 84.0 59.2 110.0

166 128.9 89.2 165.8



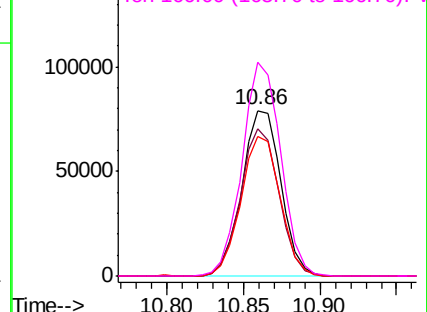
Abundance

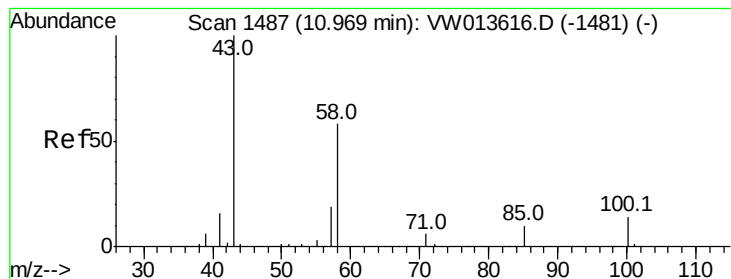
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 42.269 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

Tot Ion: 43 Resp: 129363

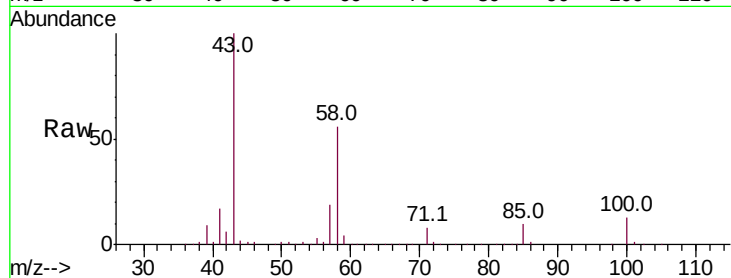
Ion Ratio Lower Upper

43 100

58 58.6 45.8 68.6

57 20.8 15.4 23.2

100 14.3 10.8 16.2

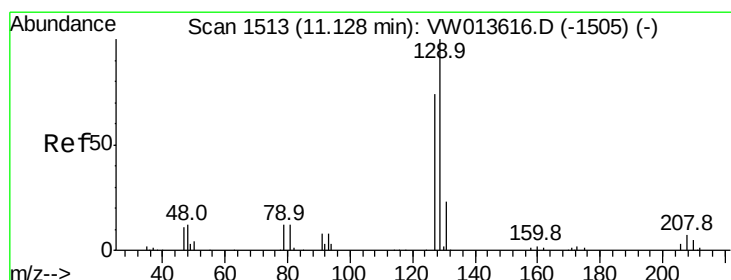
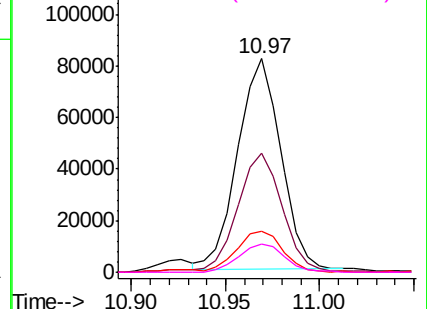
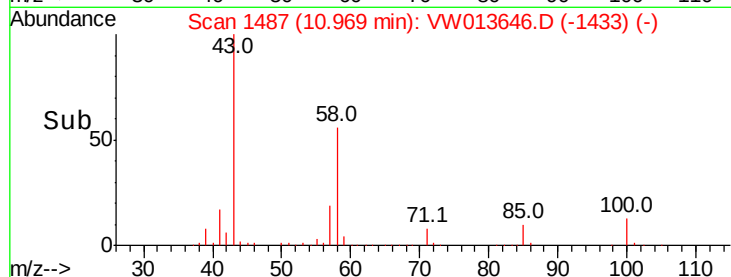


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 22.319 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW013646.D

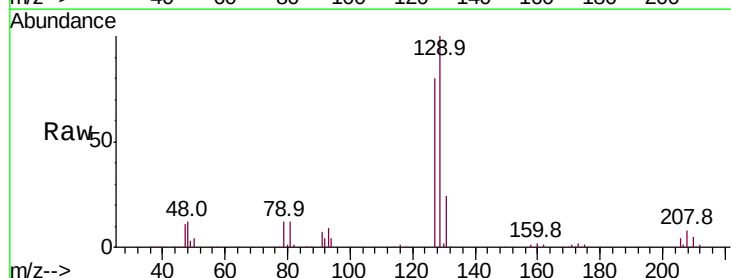
Acq: 22 Oct 2019 10:30

Tgt Ion: 129 Resp: 128449

Ion Ratio Lower Upper

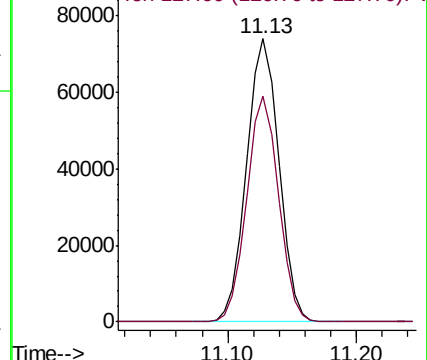
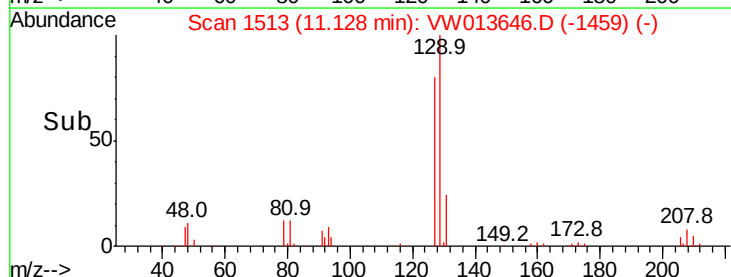
129 100

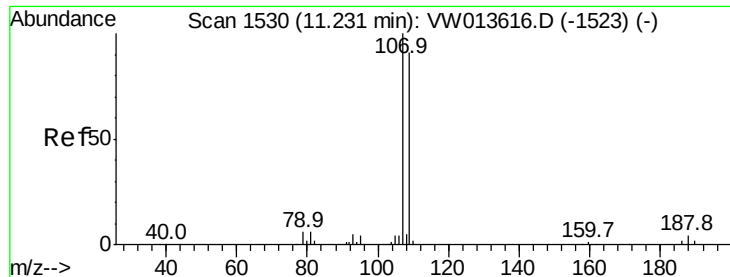
127 79.7 51.4 95.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

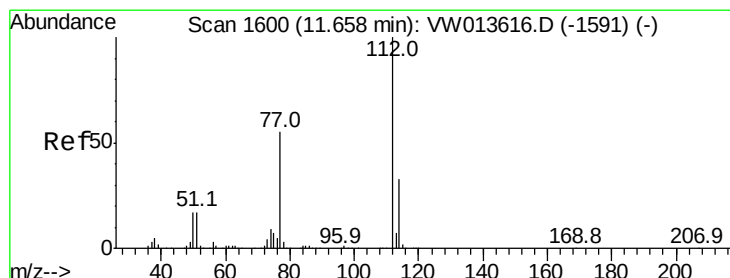
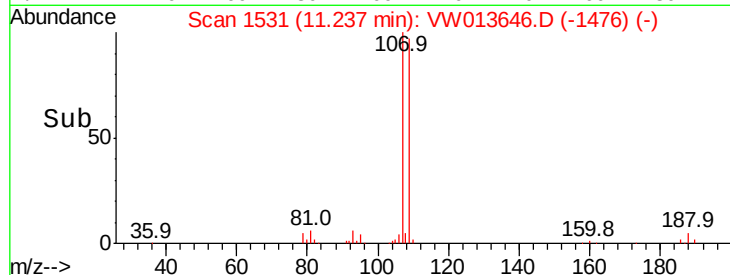
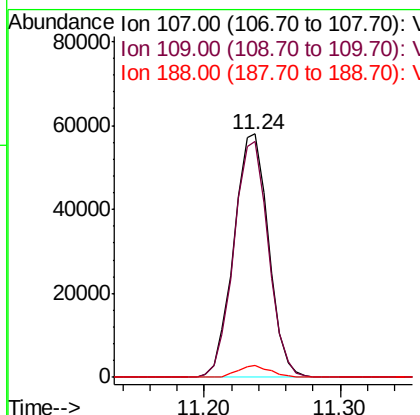
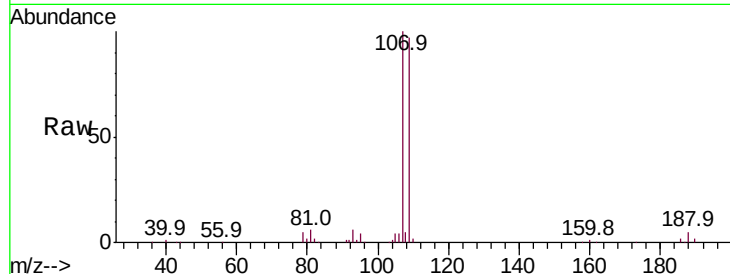




#51
 1,2-Dibromoethane
 Concen: 21.795 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

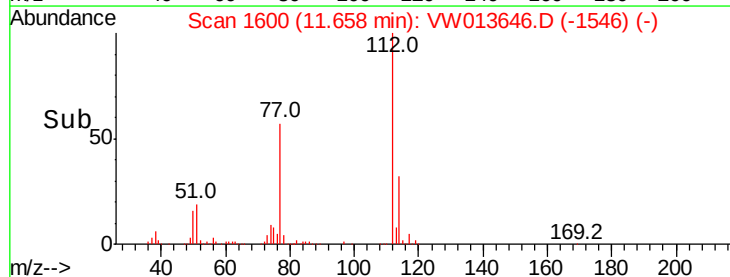
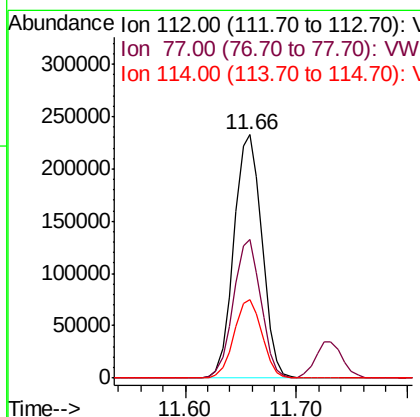
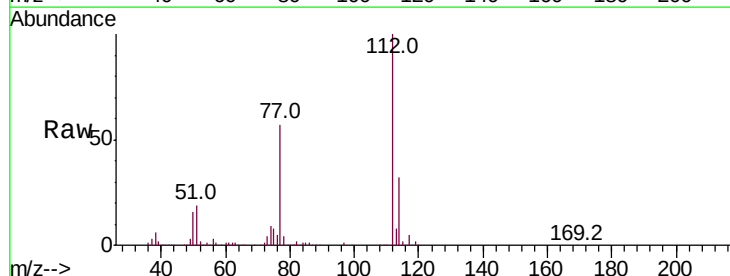
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

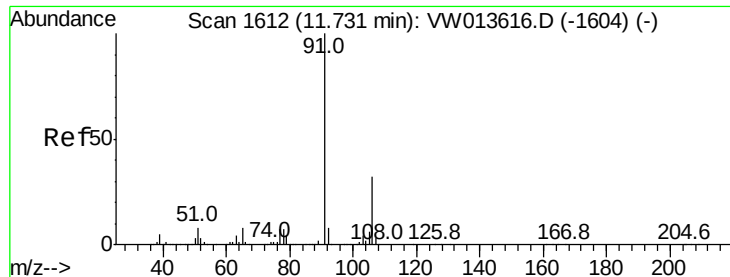
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.9	64.0	118.8
188	5.0	3.4	5.2



#52
 Chlorobenzene
 Concen: 22.730 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

Tgt Ion	Ratio	Lower	Upper
112	100		
77	56.7	44.1	66.1
114	32.4	23.4	43.4





#53

Ethylbenzene

Concen: 22.898 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

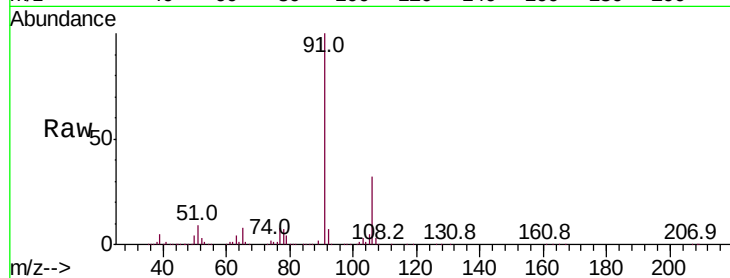
VSTD02526

Tot Ion: 91 Resp: 702928

Ion Ratio Lower Upper

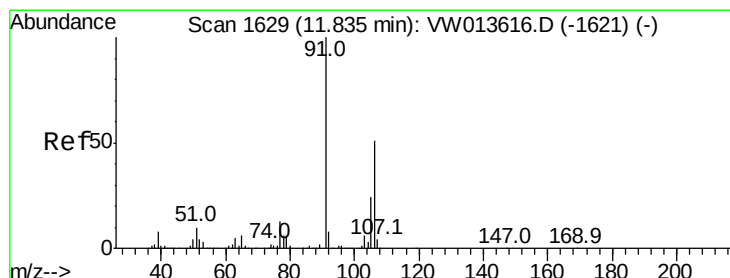
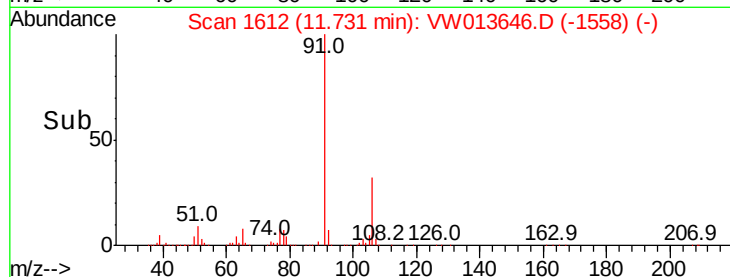
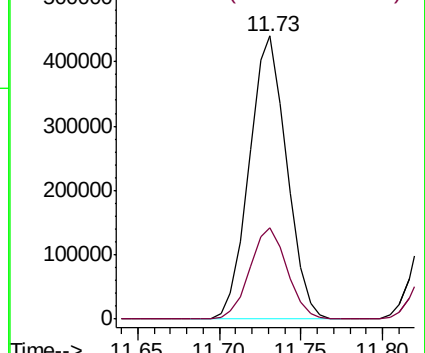
91 100

106 32.3 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 23.269 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW013646.D

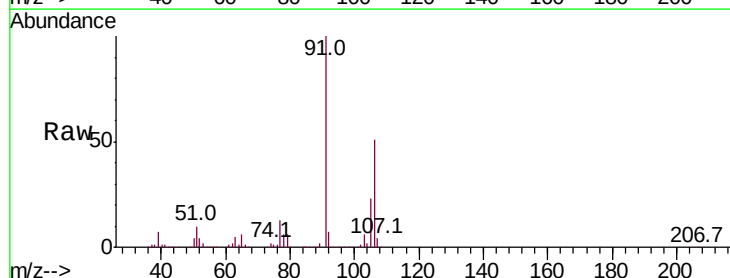
Acq: 22 Oct 2019 10:30

Tgt Ion:106 Resp: 276035

Ion Ratio Lower Upper

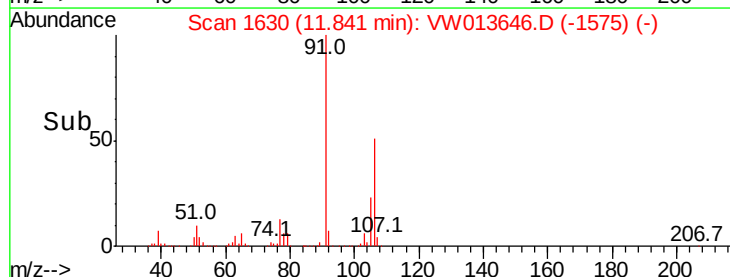
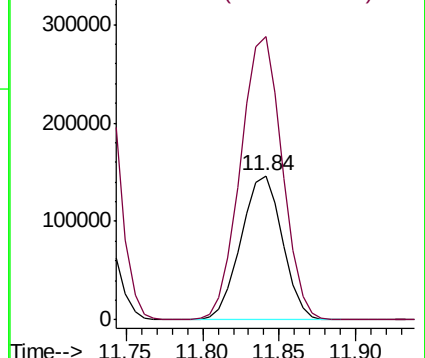
106 100

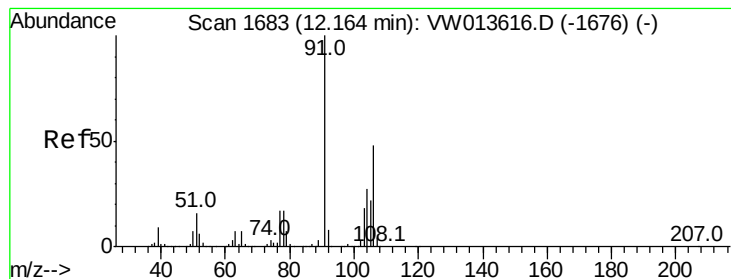
91 196.8 137.7 255.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 22.852 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampled :

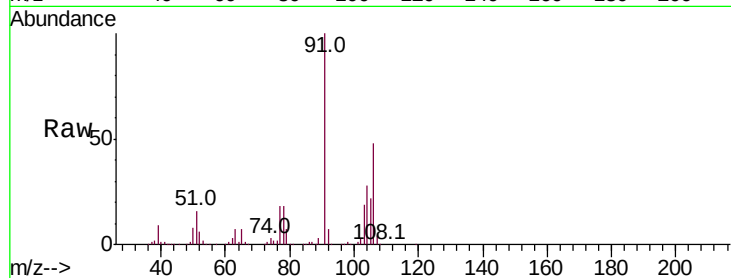
VSTD02526

Tot Ion:106 Resp: 257259

Ion Ratio Lower Upper

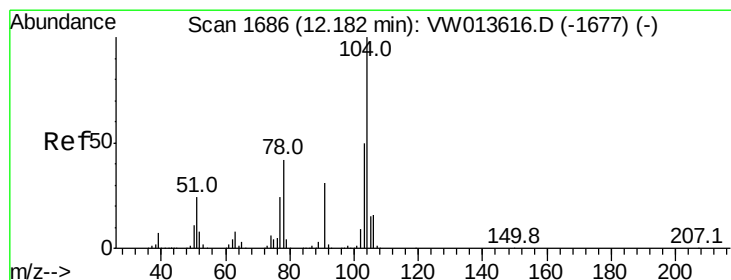
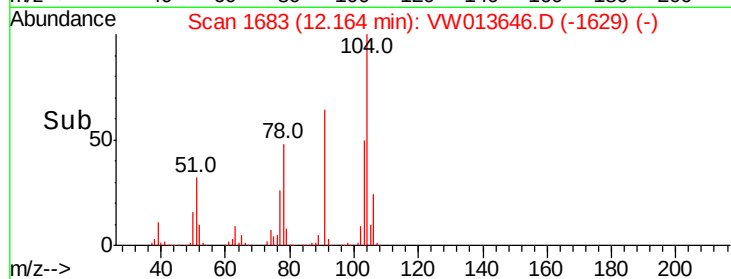
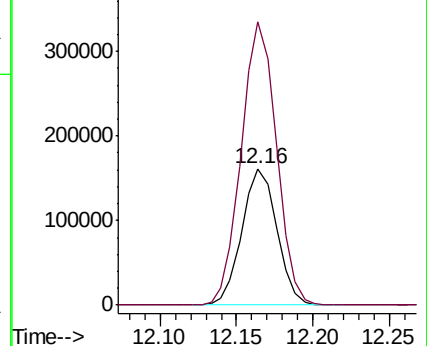
106 100

91 207.6 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 23.360 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW013646.D

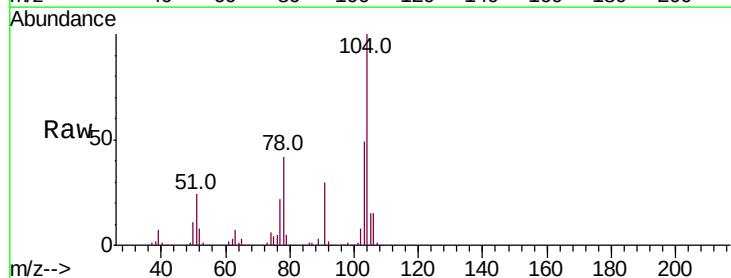
Acq: 22 Oct 2019 10:30

Tgt Ion:104 Resp: 449868

Ion Ratio Lower Upper

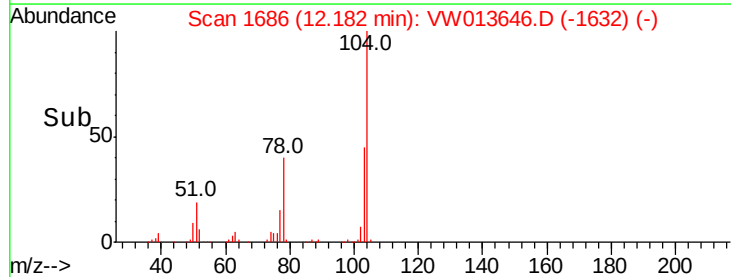
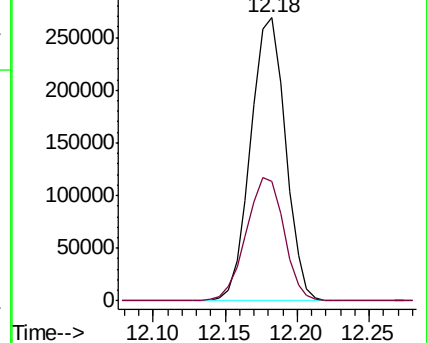
104 100

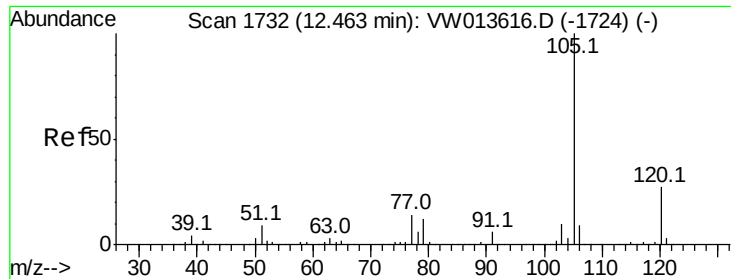
78 42.2 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 23.234 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

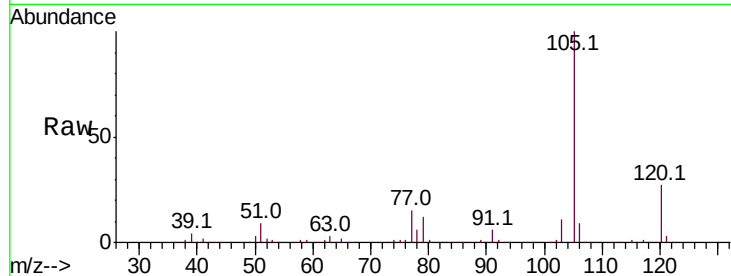
Tot Ion:105 Resp: 701560

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

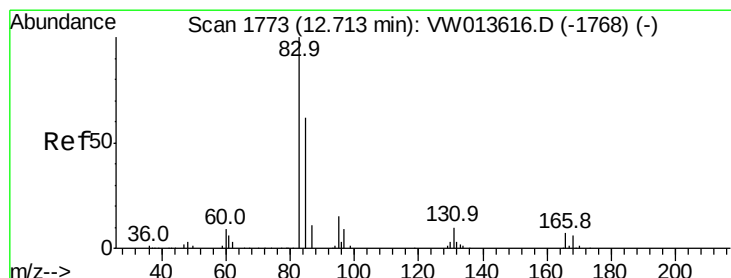
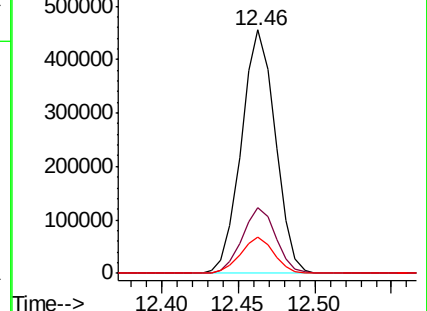
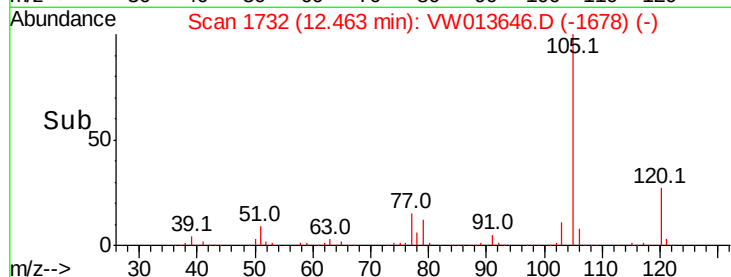
77 14.5 11.4 17.0



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: 22.062 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

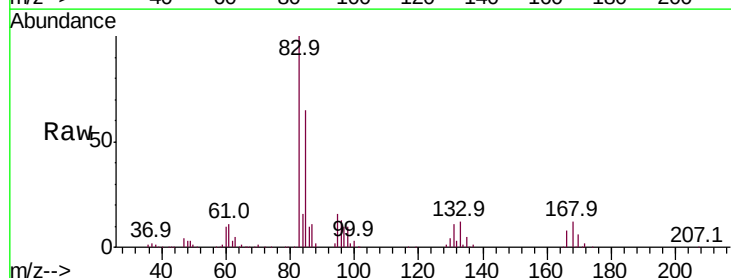
Tgt Ion: 83 Resp: 126095

Ion Ratio Lower Upper

83 100

85 64.5 44.9 83.3

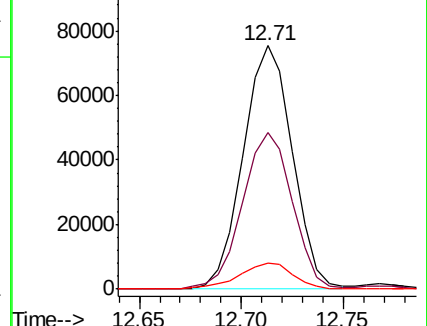
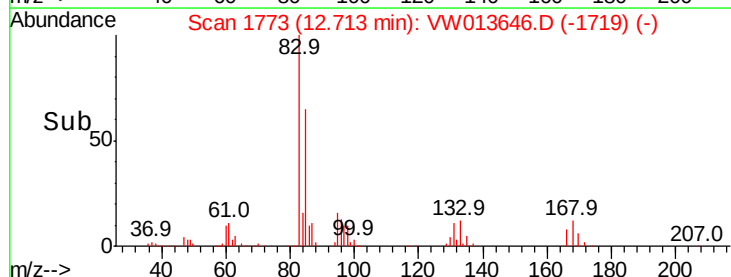
131 10.9 8.6 13.0

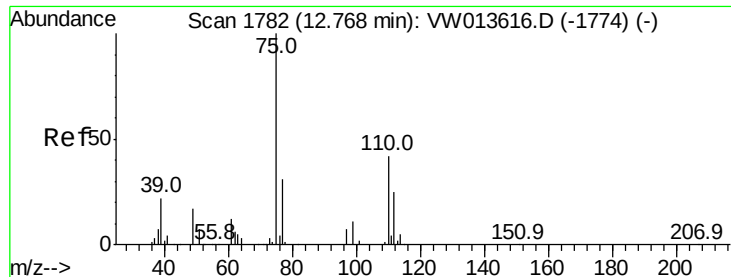


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 21.849 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampled :

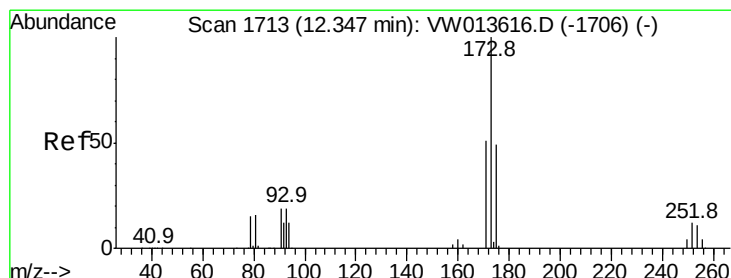
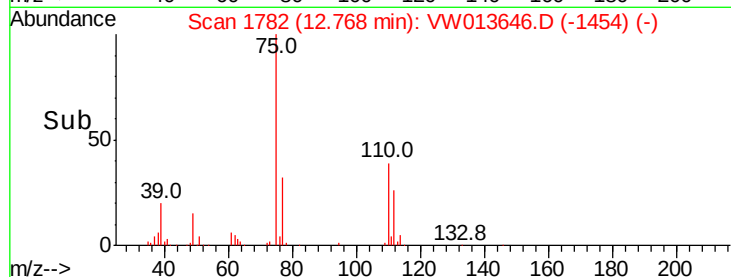
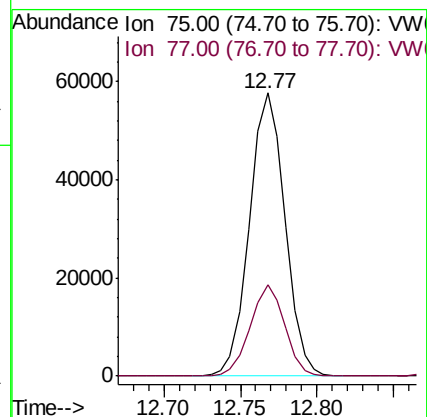
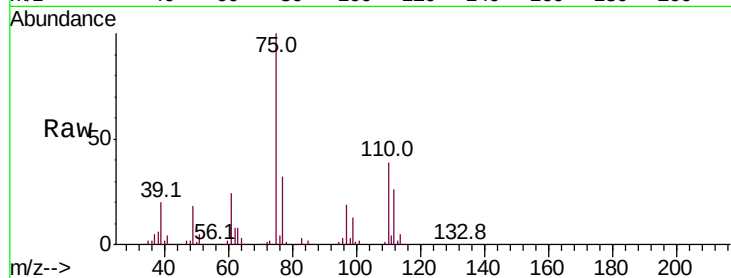
VSTD02526

Tot Ion: 75 Resp: 93127

Ion Ratio Lower Upper

75 100

77 31.5 26.4 39.6



#62

Bromoform

Concen: 21.599 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

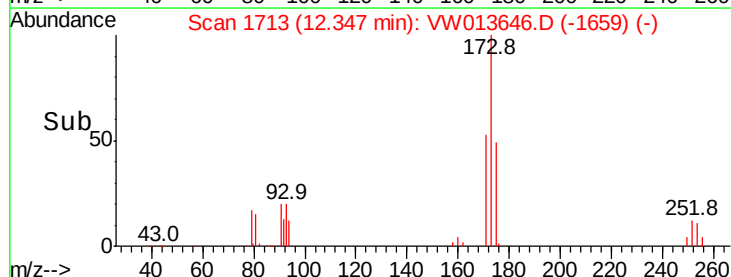
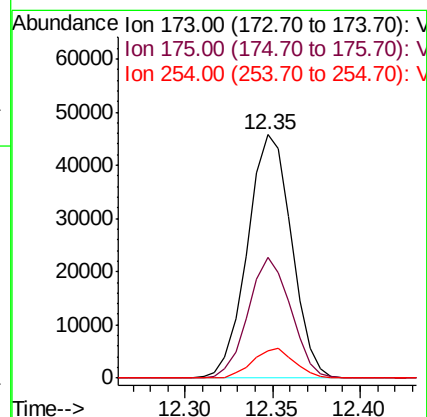
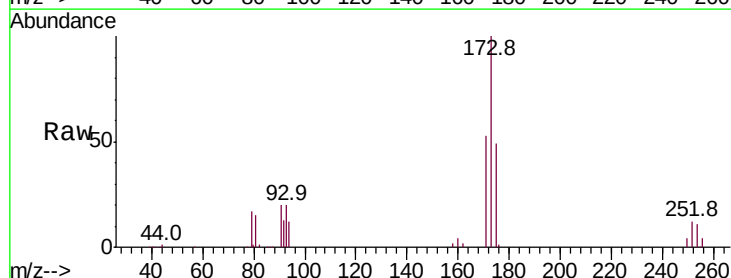
Tgt Ion: 173 Resp: 80339

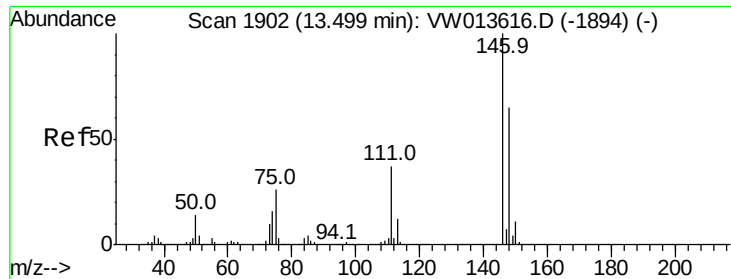
Ion Ratio Lower Upper

173 100

175 48.0 39.1 58.7

254 11.6 9.6 14.4

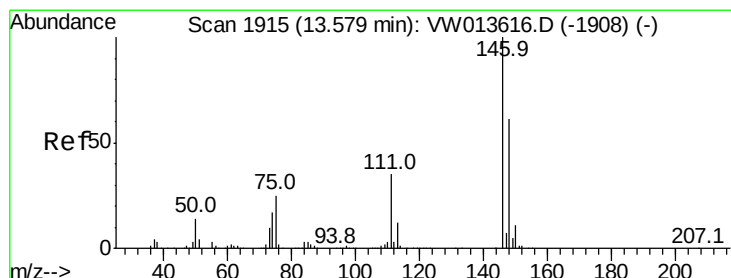
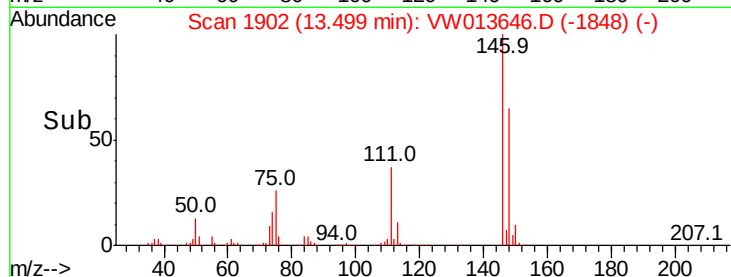
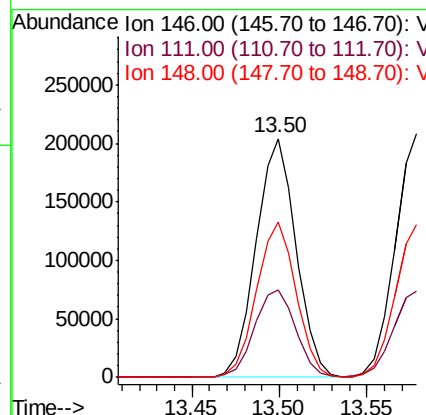
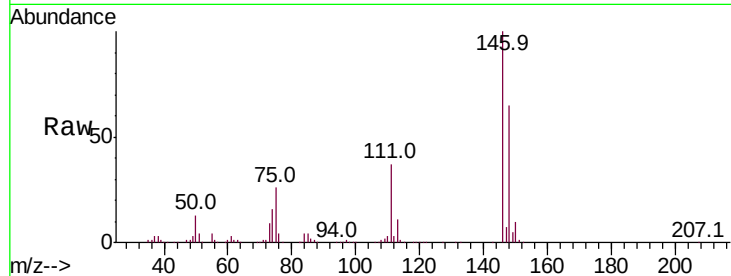




#63
 1,3-Dichlorobenzene
 Concen: 22.138 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

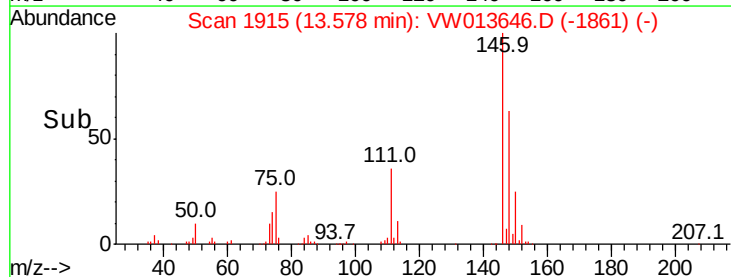
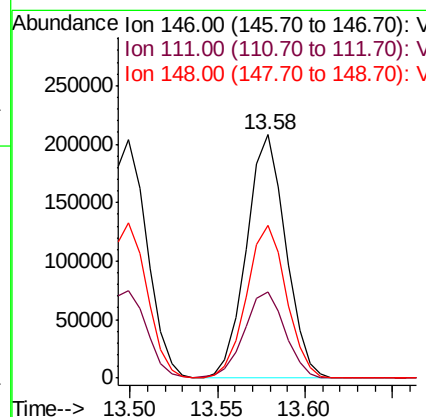
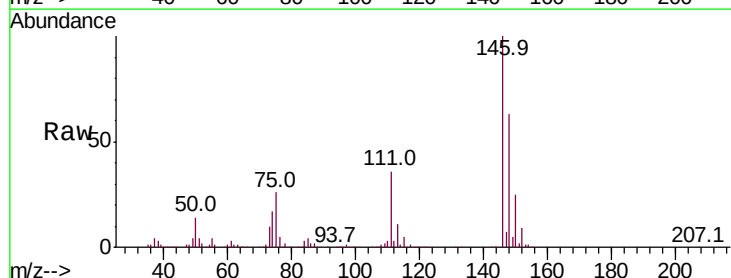
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

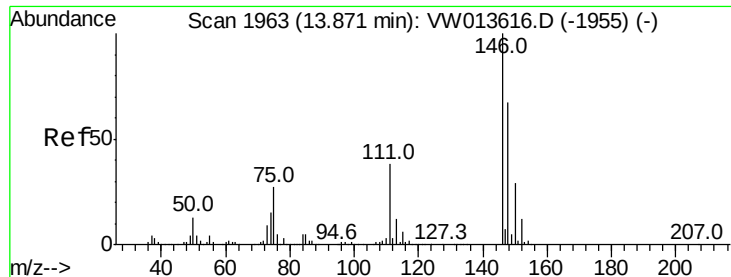
Tot Ion:146 Resp: 326018
 Ion Ratio Lower Upper
 146 100
 111 36.7 26.1 48.5
 148 64.8 45.8 85.2



#64
 1,4-Dichlorobenzene
 Concen: 22.013 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

Tgt Ion:146 Resp: 325759
 Ion Ratio Lower Upper
 146 100
 111 35.6 24.8 46.0
 148 62.7 43.0 79.8

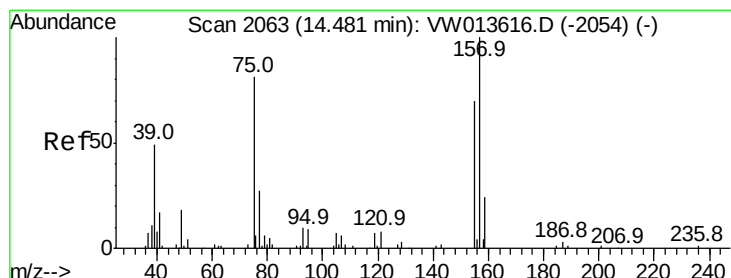
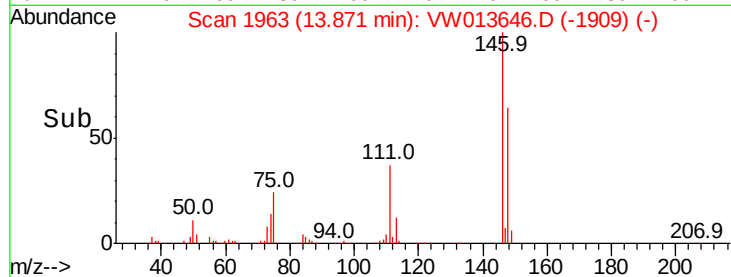
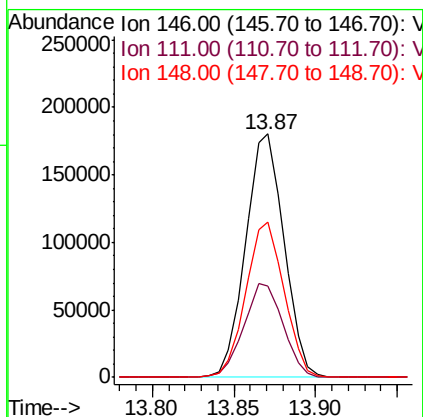
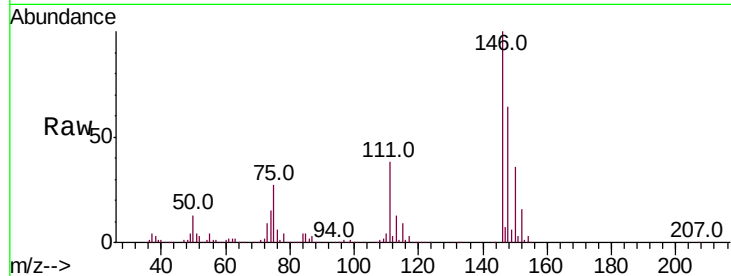




#65
 1,2-Dichlorobenzene
 Concen: 22.195 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

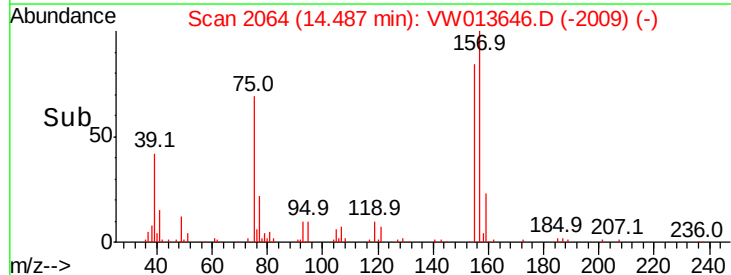
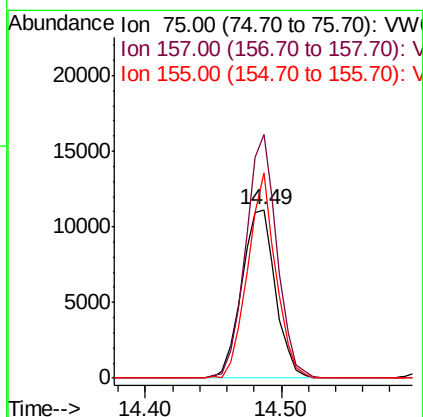
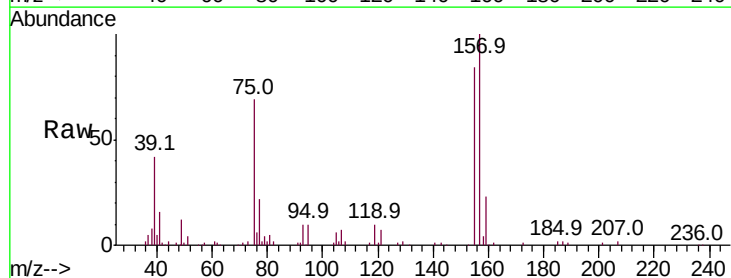
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

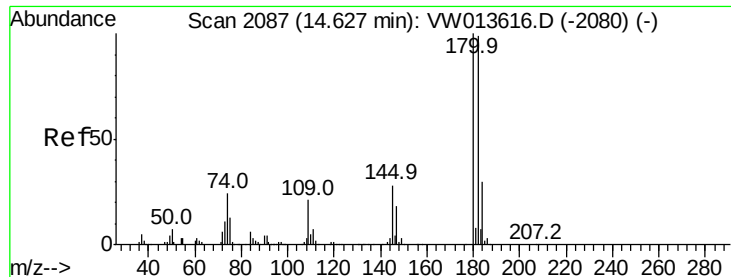
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	30.7	46.1
148	63.7	53.3	79.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 20.848 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

Tgt Ion	Ratio	Lower	Upper
75	100		
157	144.7	99.4	149.0
155	121.9	69.7	104.5

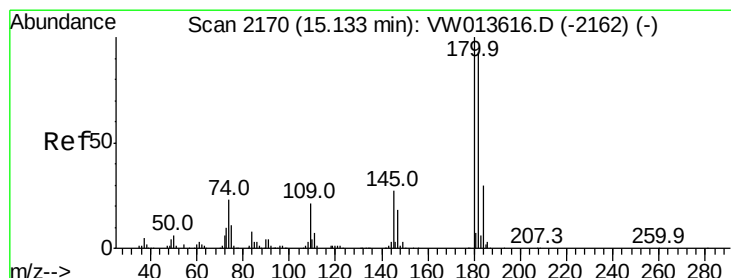
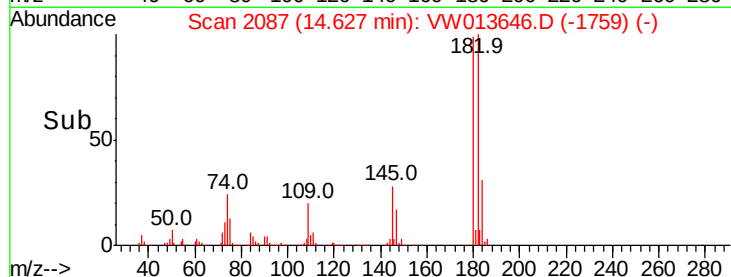
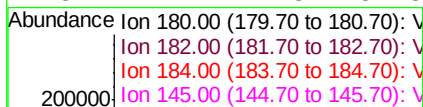
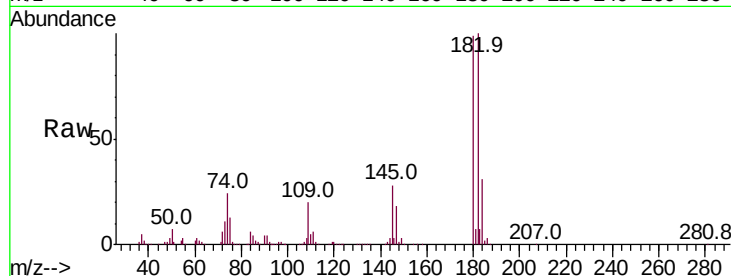




#67
 1,3,5-Trichlorobenzene
 Concen: 22.481 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

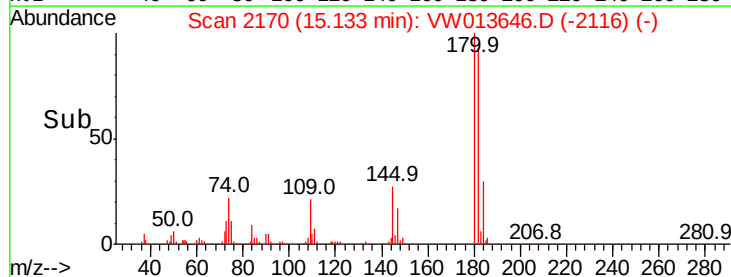
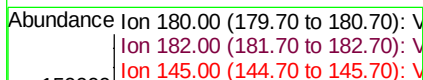
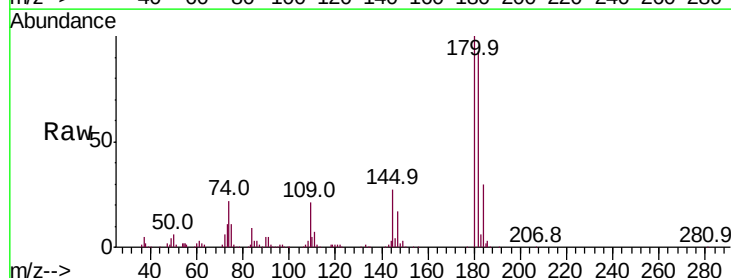
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

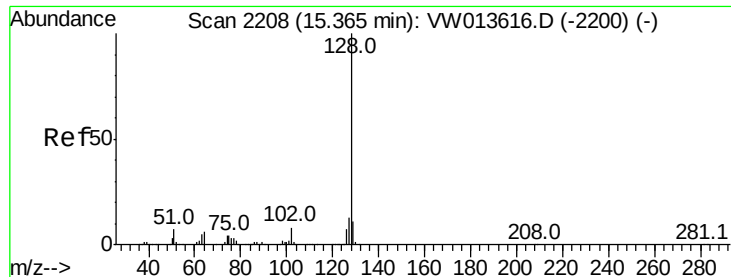
Tot Ion:	180	Resp:	246125
Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.2	114.4
184	30.5	24.1	36.1
145	27.7	21.8	32.8



#68
 1,2,4-trichlorobenzene
 Concen: 22.130 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013646.D
 Acq: 22 Oct 2019 10:30

Tgt Ion:	180	Resp:	205692
Ion	Ratio	Lower	Upper
180	100		
182	96.5	75.8	113.8
145	28.6	22.6	34.0





#69

Naphthalene

Concen: 22.403 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

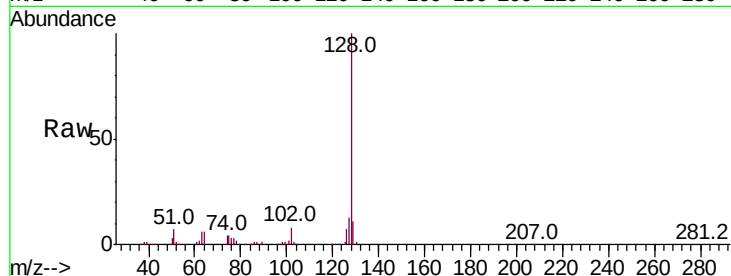
Tot Ion:128 Resp: 377315

Ion Ratio Lower Upper

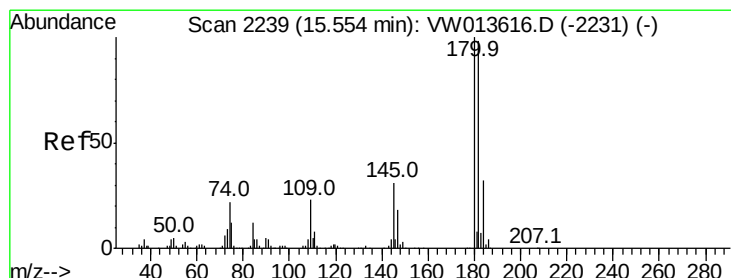
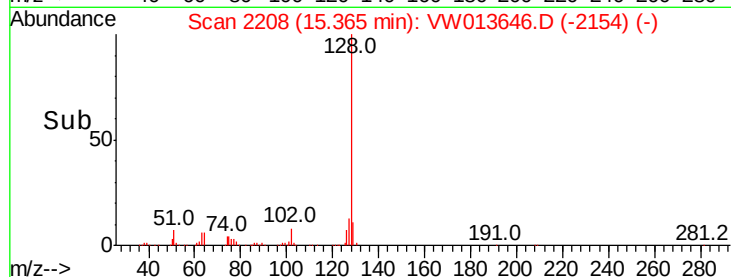
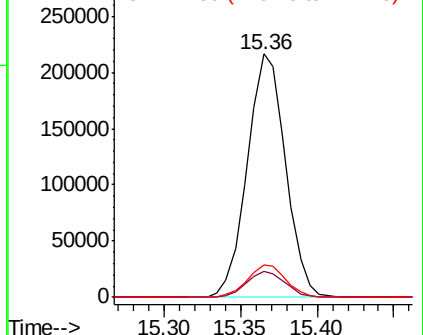
128 100

129 10.8 8.6 13.0

127 13.2 10.5 15.7



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: 21.951 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013646.D

Acq: 22 Oct 2019 10:30

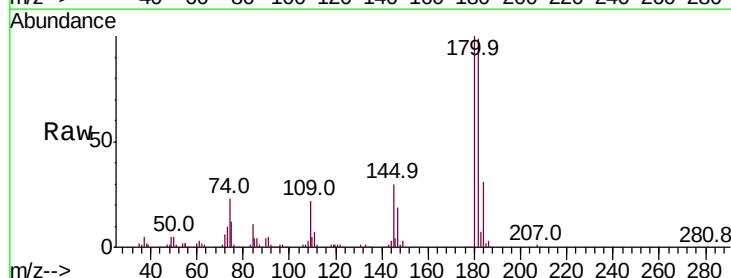
Tgt Ion:180 Resp: 182711

Ion Ratio Lower Upper

180 100

182 96.3 77.0 115.4

145 29.7 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

