

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073120\
 Data File : VW016019.D
 Acq On : 31 Jul 2020 10:22
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

Quant Time: Aug 01 02:42:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 31 14:10:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	429440	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	391422	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	189605	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	107713	17.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	71.12%
7) Chloroethane-d5	2.90	69	105712	21.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.92%
10) 1,1-Dichloroethene-d2	4.02	63	268026	21.88	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.52%
20) 2-Butanone-d5	7.08	46	99912	62.77	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	125.54%
24) Chloroform-d	7.65	84	286528	23.76	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.04%
26) 1,2-Dichloroethane-d4	8.31	65	152076	22.97	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.88%
29) Benzene-d6	8.27	84	559054	23.46	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.84%
33) 1,2-Dichloropropane-d6	9.27	67	172863	24.20	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.80%
37) Toluene-d8	10.32	98	496194	22.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.96%
38) trans-1,3-Dichloropropene-	10.58	79	69170	22.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.88%
39) 2-Hexanone-d5	10.93	63	75626	63.59	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	127.18%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	153533	27.96	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	111.84%
61) 1,2-Dichlorobenzene-d4	13.86	152	177312	23.98	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.92%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	93630	25.766	ug/L	94
3) Chloromethane	2.22	50	119446	27.178	ug/L	100
5) Vinyl chloride	2.37	62	170375	25.135	ug/L	99
6) Bromomethane	2.79	94	100704	24.902	ug/L	99
8) Chloroethane	2.93	64	104218	26.245	ug/L	97
9) Trichlorofluoromethane	3.26	101	137824	30.249	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	153620	27.582	ug/L	97
12) 1,1-Dichloroethene	4.04	96	149596	27.099	ug/L	92
13) Acetone	4.12	43	90533	67.727	ug/L	94
14) Carbon disulfide	4.38	76	437902	25.117	ug/L	99
15) Methyl Acetate	4.67	43	73623	29.210	ug/L	98
16) Methylene chloride	4.92	84	179233	25.471	ug/L	97
17) Methyl tert-butyl Ether	5.43	73	222103	28.452	ug/L	97
18) trans-1,2-Dichloroethene	5.43	96	156631	26.869	ug/L	98
19) 1,1-Dichloroethane	6.21	63	289734	26.971	ug/L	98
21) 2-Butanone	7.17	43	106719	64.561	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	164806	27.022	ug/L	97

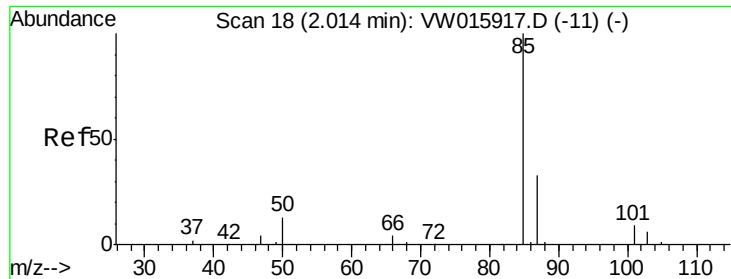
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073120\
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 Quant Title : VOC Analysis
 QLast Update : Fri Jul 31 14:10:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	73586	27.515	ug/L	90
25) Chloroform	7.68	83	283024	26.583	ug/L	100
27) 1,2-Dichloroethane	8.40	62	183489	25.328	ug/L	97
30) Cyclohexane	7.96	56	262676	26.614	ug/L	99
31) 1,1,1-Trichloroethane	7.88	97	240981	26.366	ug/L	98
32) Carbon tetrachloride	8.07	117	211810	25.556	ug/L	98
34) Benzene	8.32	78	643192	27.055	ug/L	100
35) Trichloroethene	9.09	95	162317	25.810	ug/L	96
36) Methylcyclohexane	9.34	83	288726	26.756	ug/L	99
40) 1,2-Dichloropropane	9.37	63	162295	27.557	ug/L	100
41) Bromodichloromethane	9.65	83	201813	26.534	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	246850	27.520	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	207637	60.402	ug/L	98
44) Toluene	10.39	91	685428	27.490	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	214005	27.526	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	119585	28.237	ug/L	99
47) Tetrachloroethene	10.87	164	128903	26.407	ug/L	94
49) 2-Hexanone	10.97	43	151512	62.109	ug/L	97
50) Dibromochloromethane	11.13	129	135924	27.722	ug/L	99
51) 1,2-Dibromoethane	11.24	107	113616	28.044	ug/L	99
52) Chlorobenzene	11.66	112	426005	26.663	ug/L	97
53) Ethylbenzene	11.73	91	761788	27.170	ug/L	97
54) m,p-Xylene	11.84	106	288023	27.457	ug/L	93
55) o-xylene	12.17	106	272274	27.565	ug/L	96
56) Styrene	12.18	104	473045	28.162	ug/L	100
57) Isopropylbenzene	12.47	105	759003	28.228	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.72	83	146877	29.534	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	109820	29.473	ug/L	100
62) Bromoform	12.35	173	76800	27.535	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	319891	26.361	ug/L	94
64) 1,4-Dichlorobenzene	13.58	146	322852	26.214	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	297191	26.962	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.49	75	23487	28.310	ug/L	96
67) 1,3,5-Trichlorobenzene	14.63	180	226266	26.518	ug/L	97
68) 1,2,4-trichlorobenzene	15.13	180	183344	27.052	ug/L	98
69) Naphthalene	15.37	128	369333	28.926	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	166908	27.640	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 25.766 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

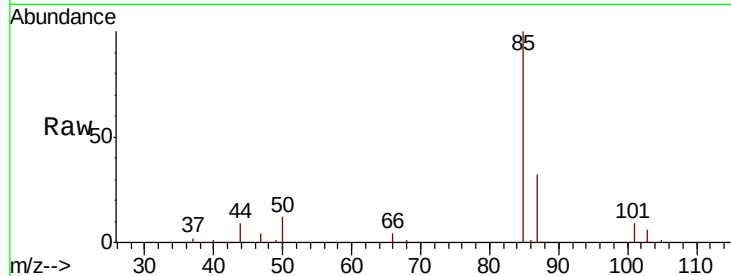
VSTD02521

Tot Ion: 85 Resp: 93630

Ion Ratio Lower Upper

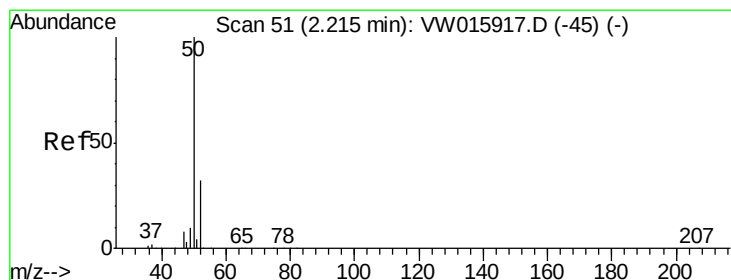
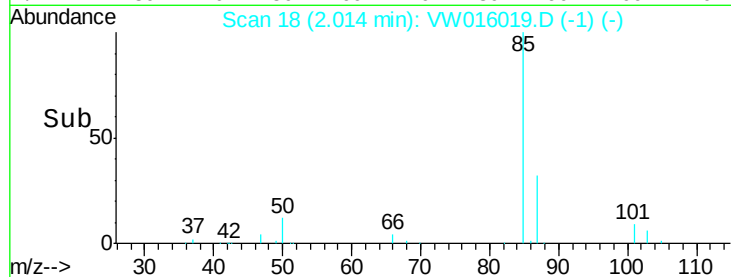
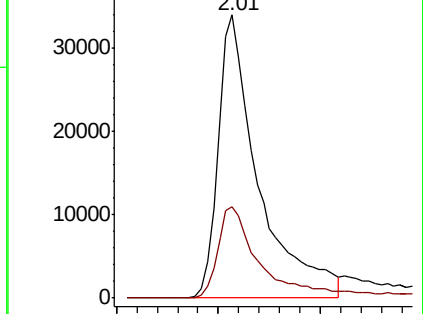
85 100

87 33.2 21.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 27.178 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW016019.D

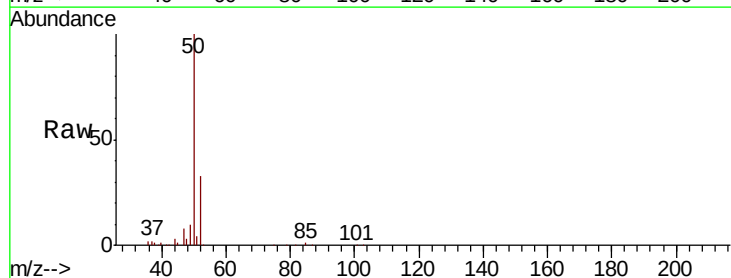
Acq: 31 Jul 2020 10:22

Tgt Ion: 50 Resp: 119446

Ion Ratio Lower Upper

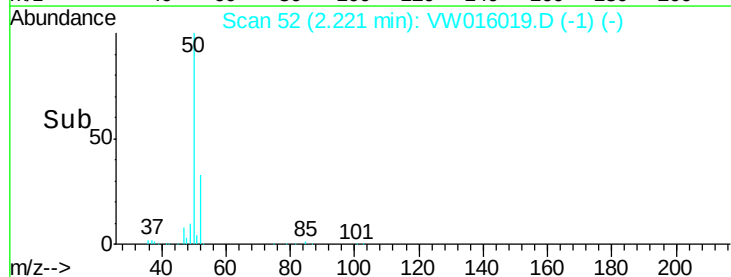
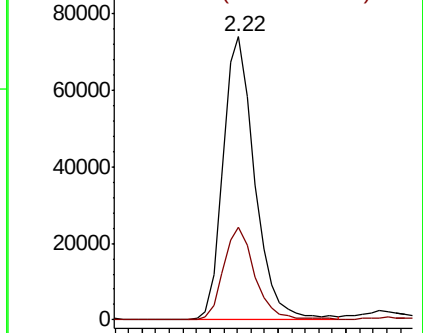
50 100

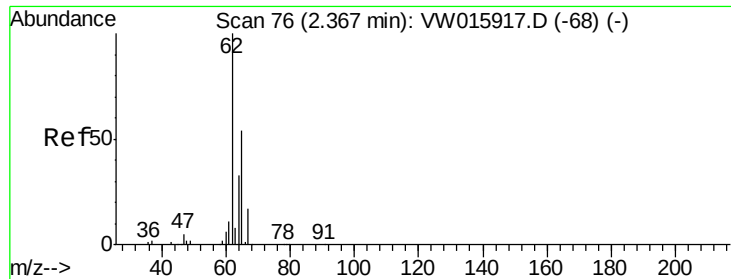
52 32.7 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 25.135 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

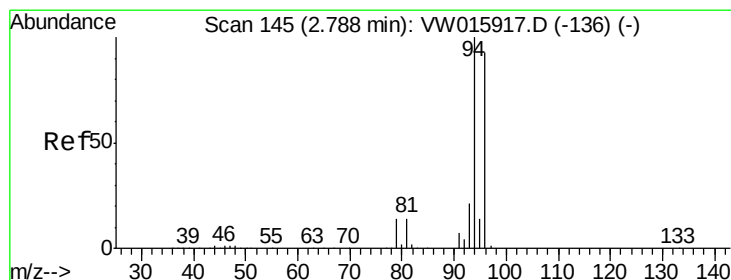
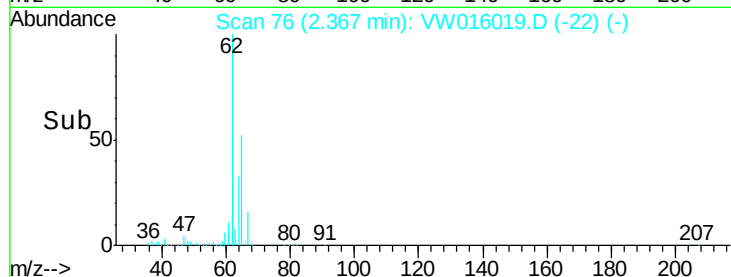
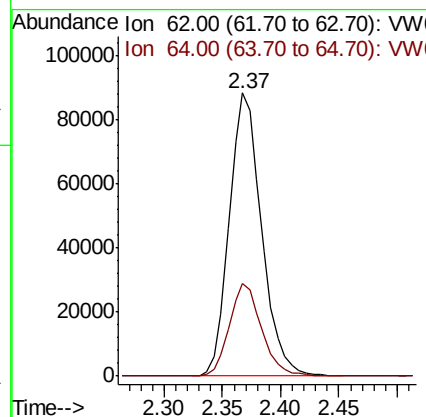
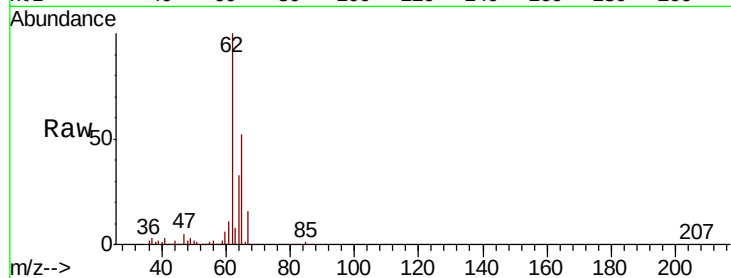
VSTD02521

Tot Ion: 62 Resp: 170375

Ion Ratio Lower Upper

62 100

64 32.8 23.2 43.0



#6

Bromomethane

Concen: 24.902 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW016019.D

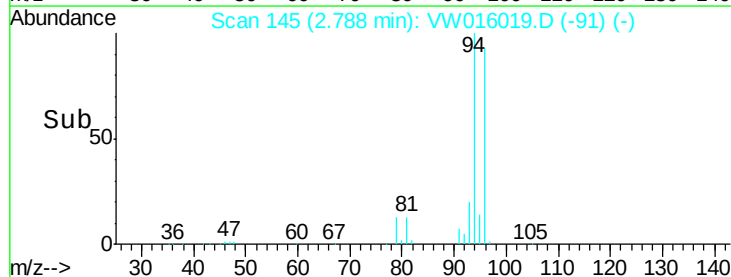
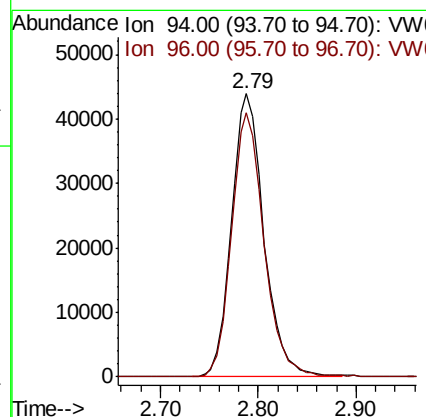
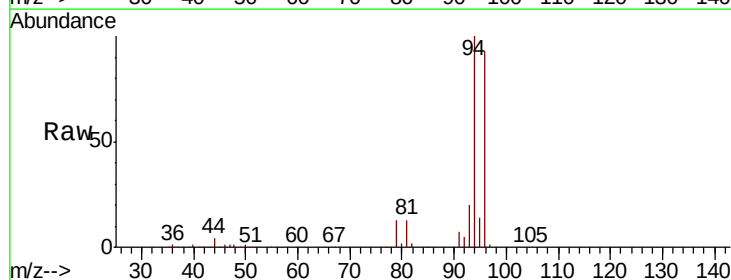
Acq: 31 Jul 2020 10:22

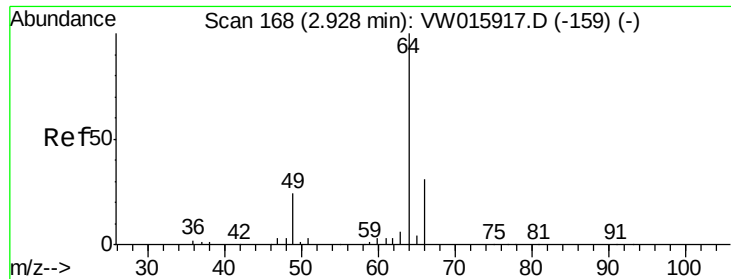
Tgt Ion: 94 Resp: 100704

Ion Ratio Lower Upper

94 100

96 93.5 9.5 180.1





#8

Chloroethane

Concen: 26.245 ug/L

RT: 2.93 min Scan# 169

Delta R.T. 0.01 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

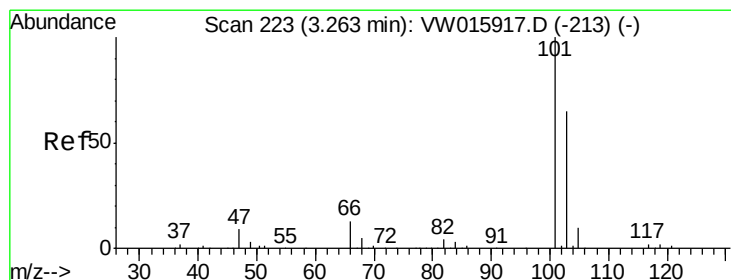
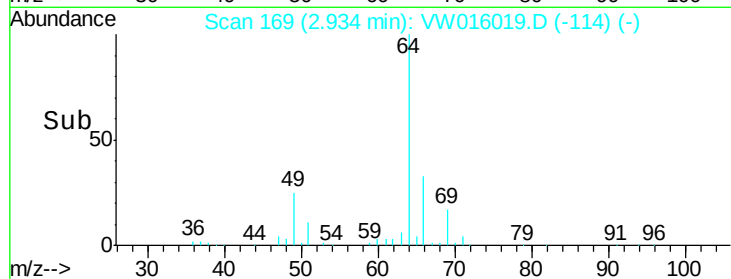
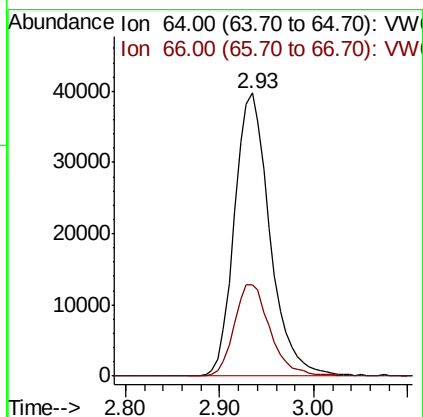
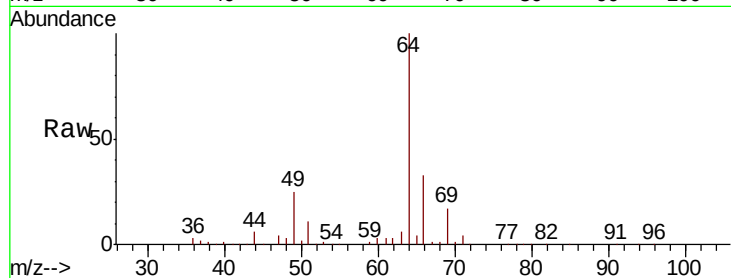
VSTD02521

Tot Ion: 64 Resp: 104218

Ion Ratio Lower Upper

64 100

66 32.5 21.8 40.4



#9

Trichlorofluoromethane

Concen: 30.249 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.00 min

Lab File: VW016019.D

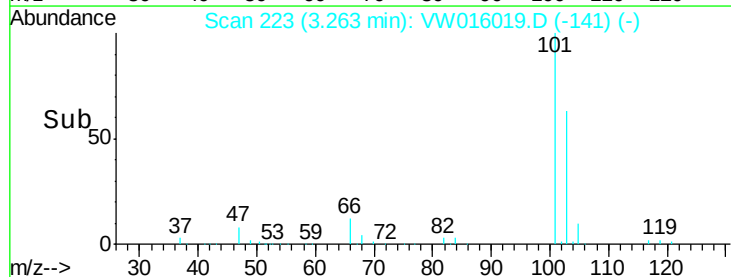
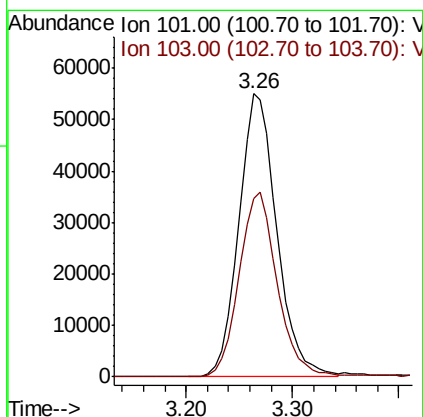
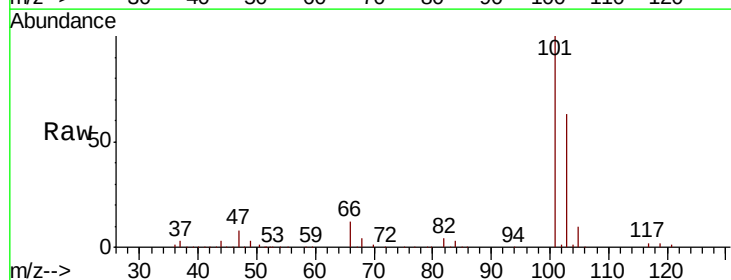
Acq: 31 Jul 2020 10:22

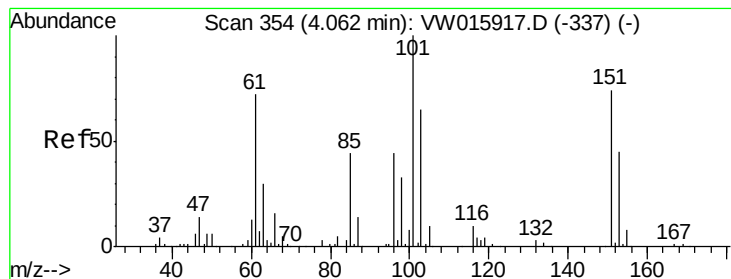
Tgt Ion: 101 Resp: 137824

Ion Ratio Lower Upper

101 100

103 65.5 45.8 85.2





#11

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

Concen: 27.582 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

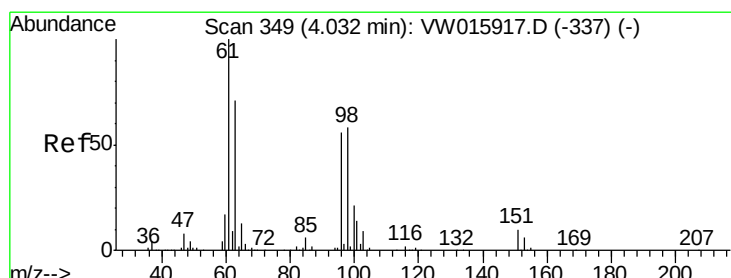
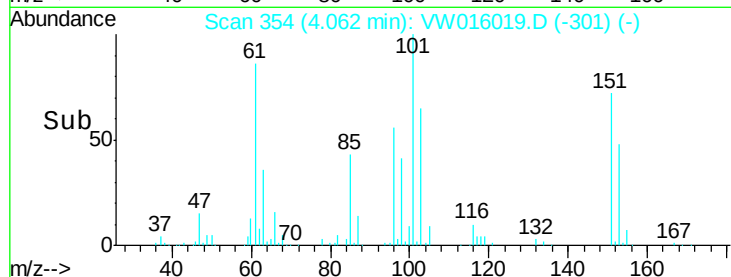
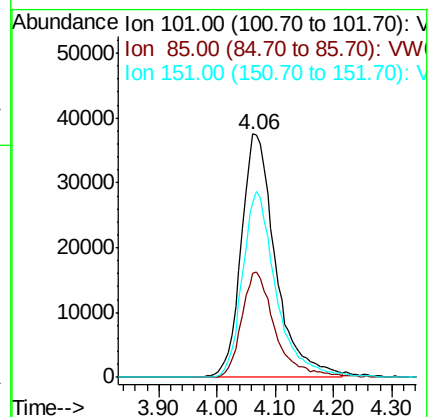
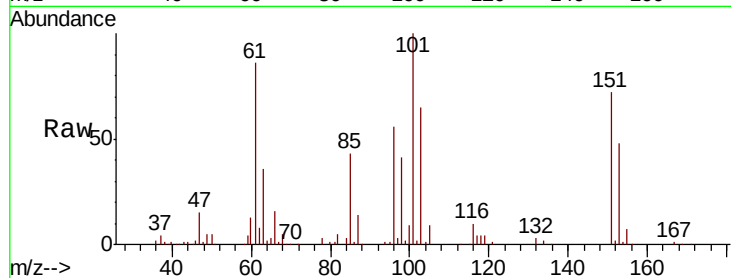
Tot Ion:101 Resp: 153620

Ion Ratio Lower Upper

101 100

85 41.7 35.5 53.3

151 74.7 58.4 87.6



#12

1,1-Dichloroethene

Concen: 27.099 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

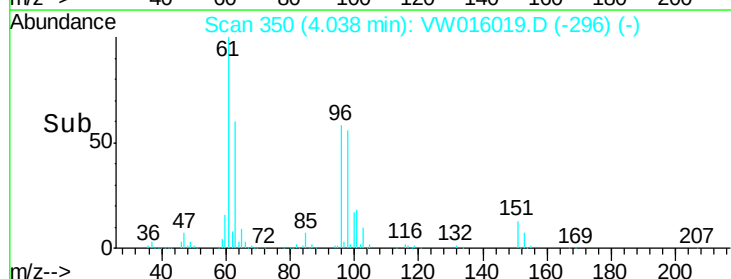
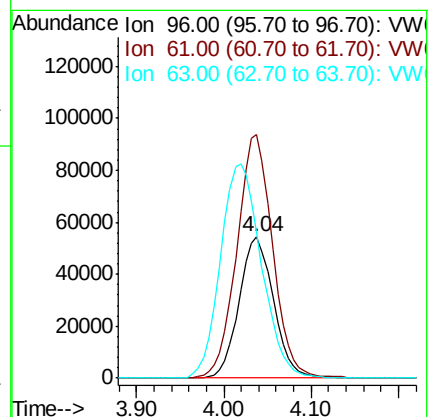
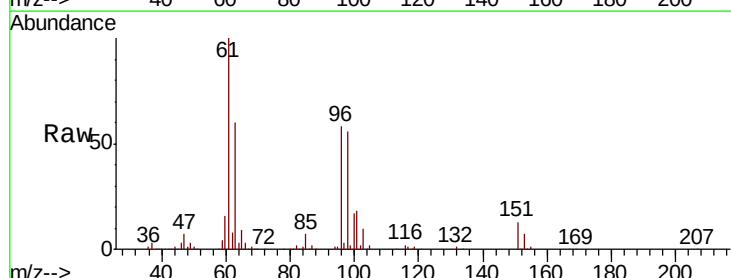
Tgt Ion: 96 Resp: 149596

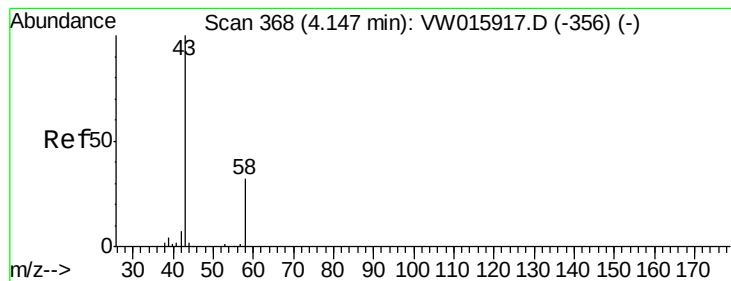
Ion Ratio Lower Upper

96 100

61 172.0 125.0 232.2

63 103.7 82.3 152.8





#13

Acetone

Concen: 67.727 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

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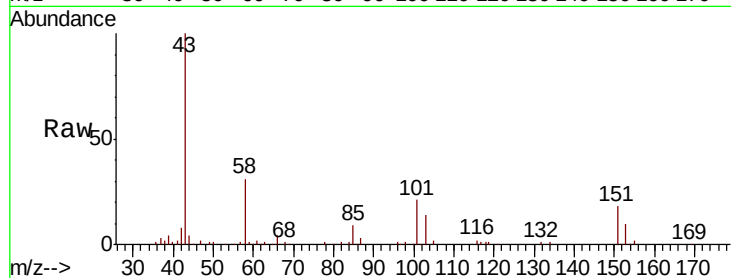
VSTD02521

Tot Ion: 43 Resp: 90533

Ion Ratio Lower Upper

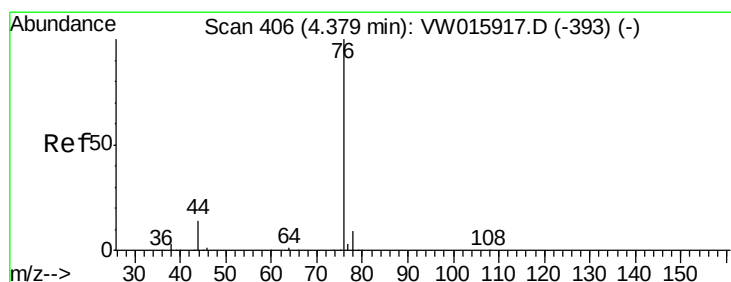
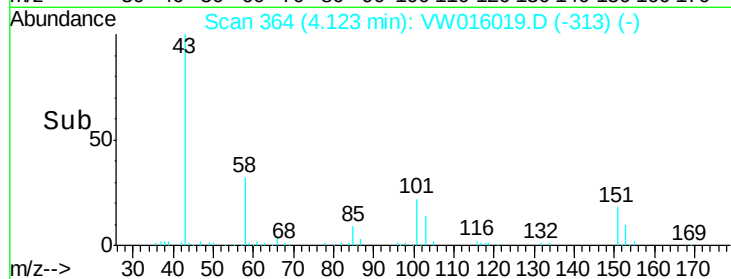
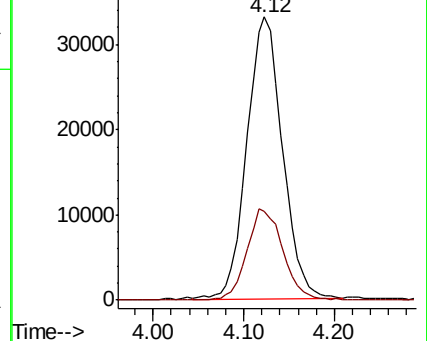
43 100

58 32.4 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 25.117 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW016019.D

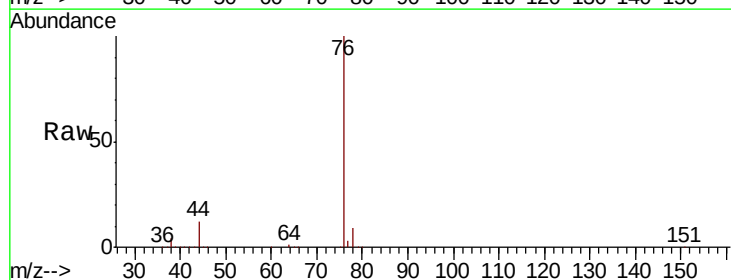
Acq: 31 Jul 2020 10:22

Tgt Ion: 76 Resp: 437902

Ion Ratio Lower Upper

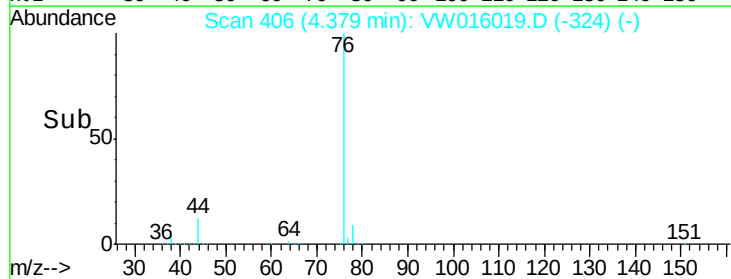
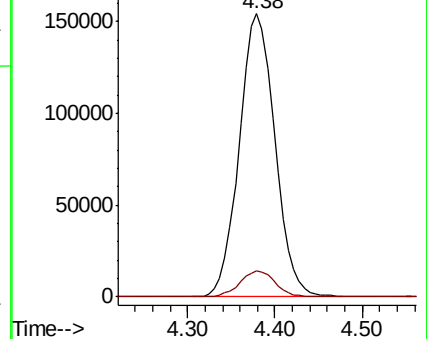
76 100

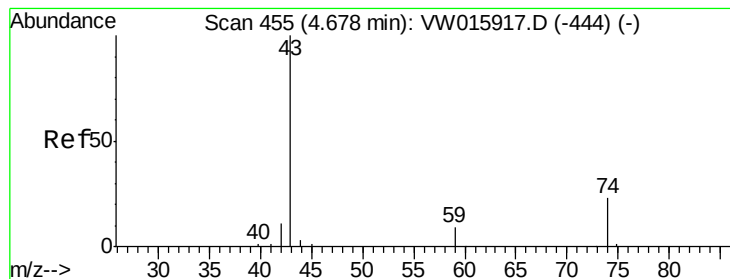
78 9.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methvl Acetate

Concen: 29.210 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

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ClientSampleId :

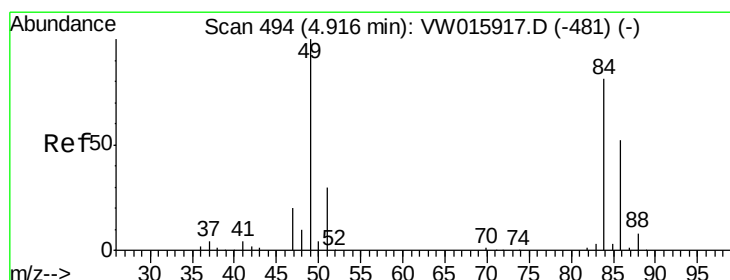
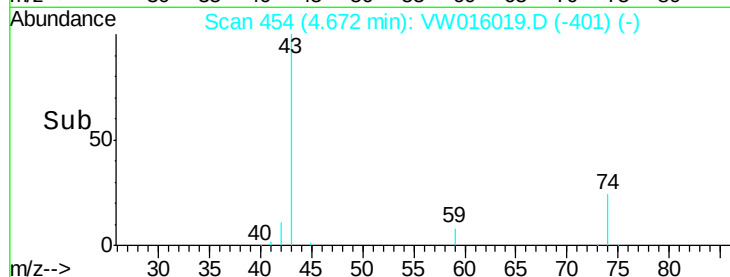
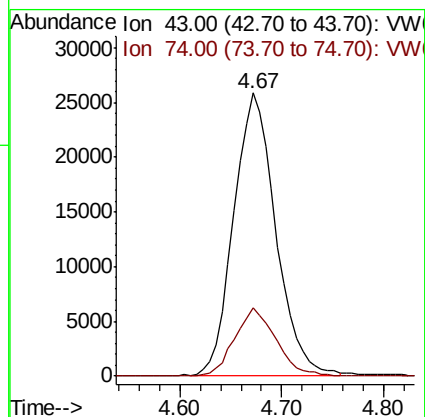
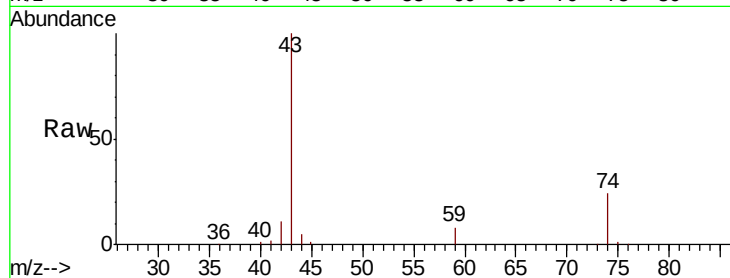
VSTD02521

Tot Ion: 43 Resp: 73623

Ion Ratio Lower Upper

43 100

74 23.6 18.2 27.2



#16

Methylene chloride

Concen: 25.471 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

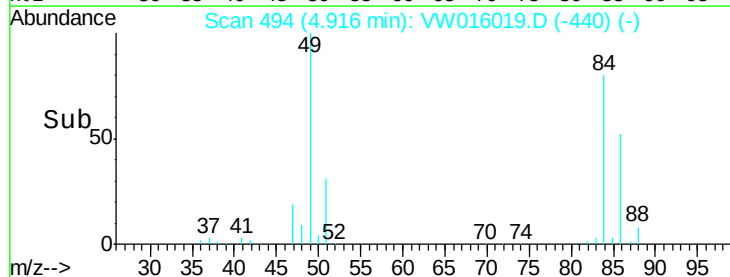
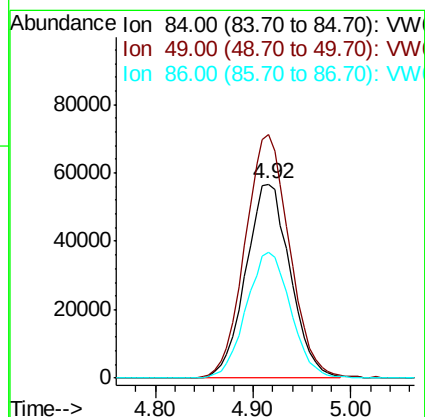
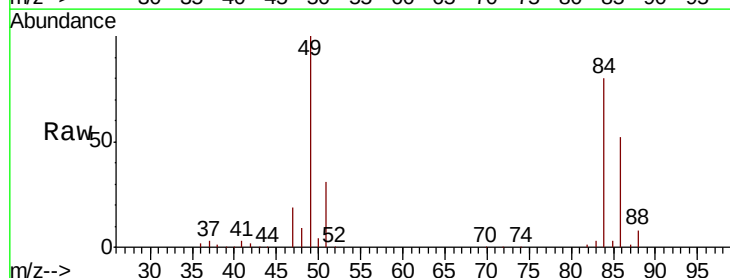
Tgt Ion: 84 Resp: 179233

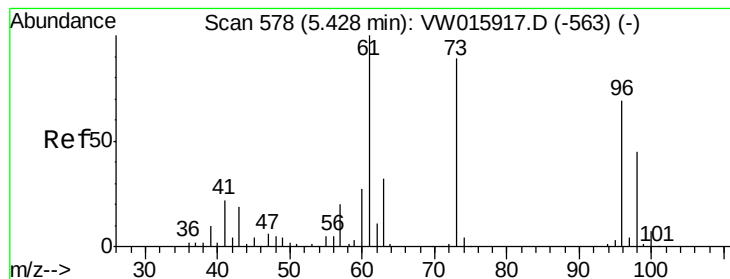
Ion Ratio Lower Upper

84 100

49 125.5 91.1 169.1

86 64.8 46.0 85.4

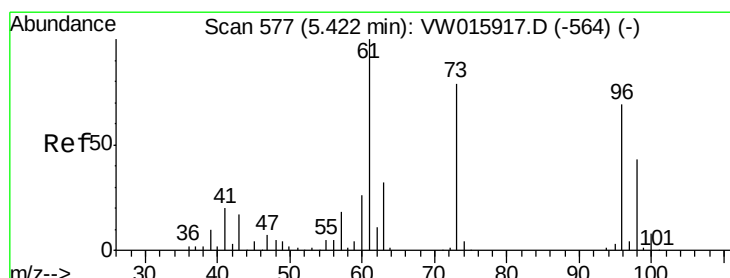
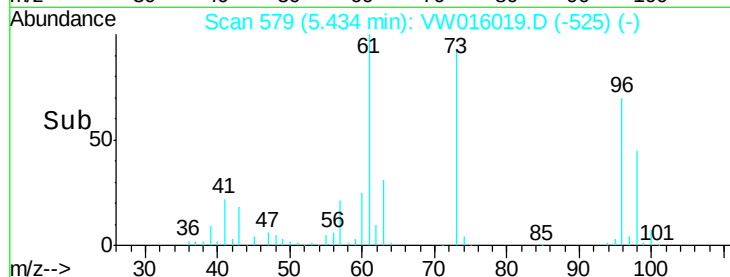
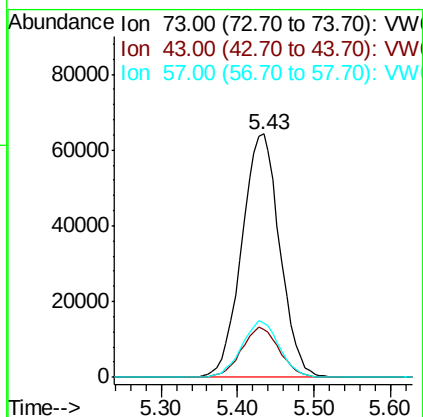
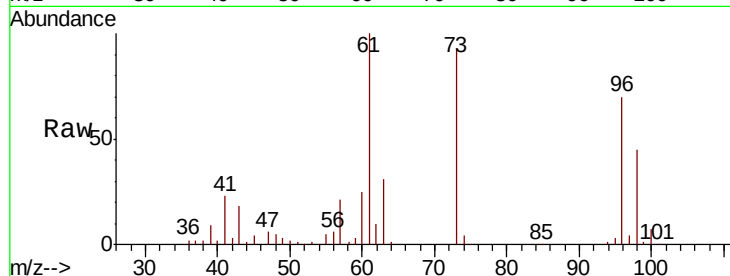




#17
Methyl tert-butyl Ether
Concen: 28.452 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

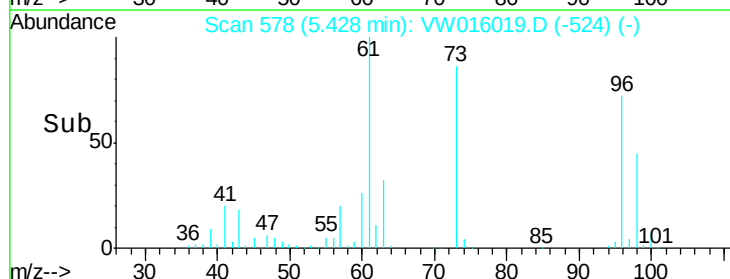
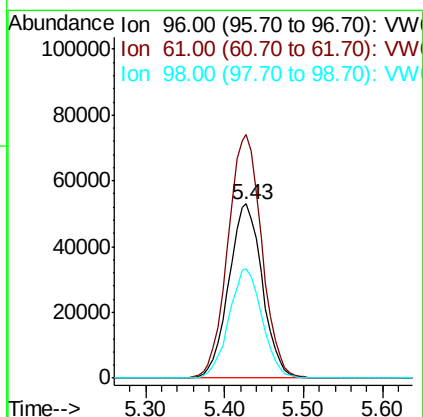
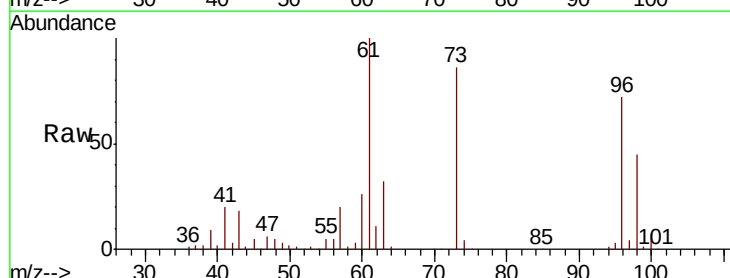
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

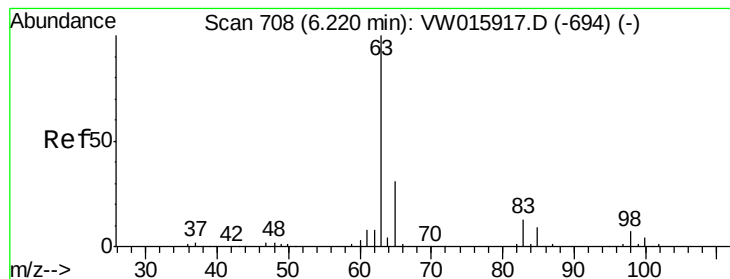
Tot Ion: 73 Resp: 222103
Ion Ratio Lower Upper
73 100
43 20.6 18.4 27.6
57 22.9 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 26.869 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

Tgt Ion: 96 Resp: 156631
Ion Ratio Lower Upper
96 100
61 139.6 99.3 184.5
98 63.0 42.9 79.7





#19

1,1-Dichloroethane

Concen: 26.971 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

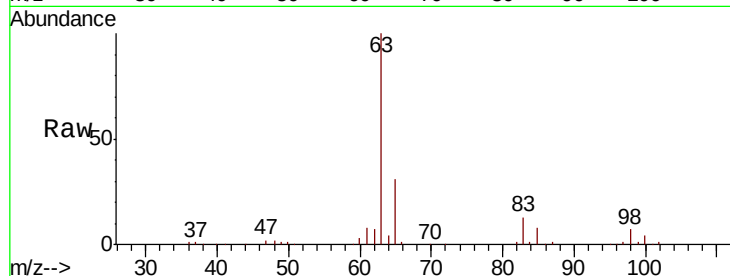
Tot Ion: 63 Resp: 289734

Ion Ratio Lower Upper

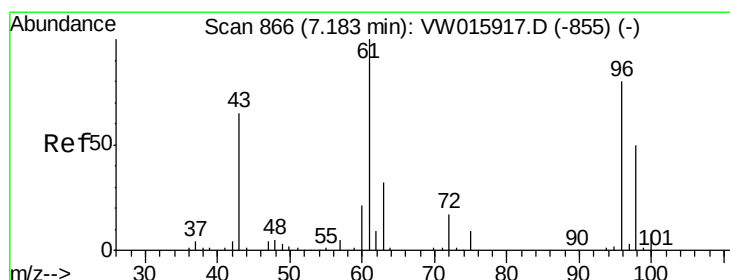
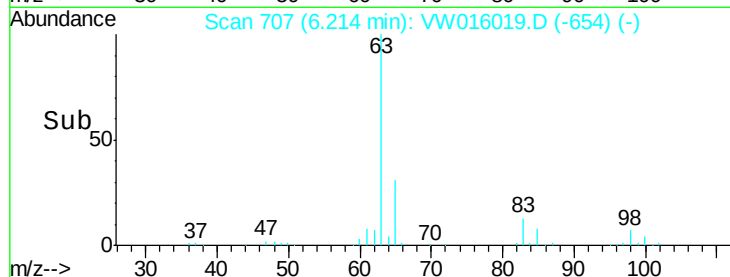
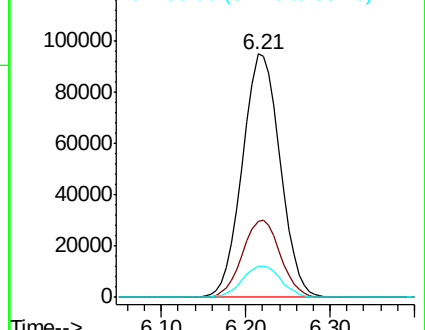
63 100

65 31.1 22.2 41.2

83 12.8 9.8 18.2



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: 64.561 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW016019.D

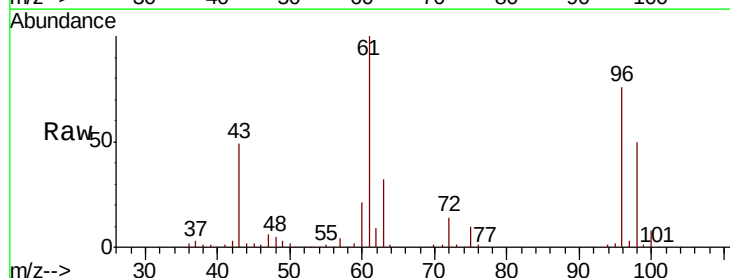
Acq: 31 Jul 2020 10:22

Tgt Ion: 43 Resp: 106719

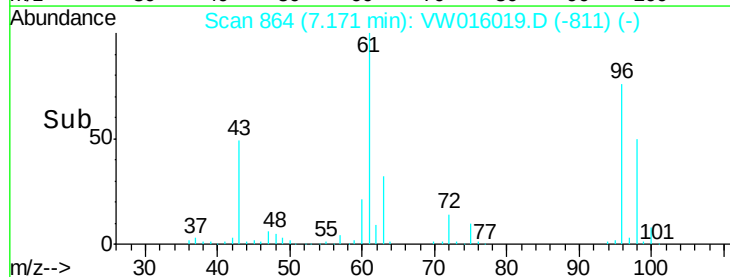
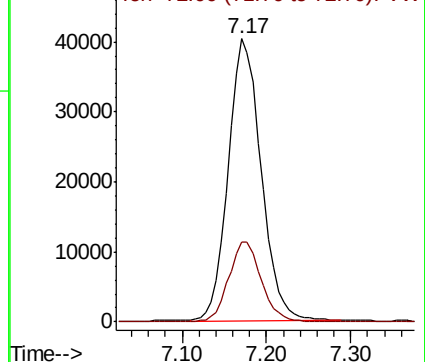
Ion Ratio Lower Upper

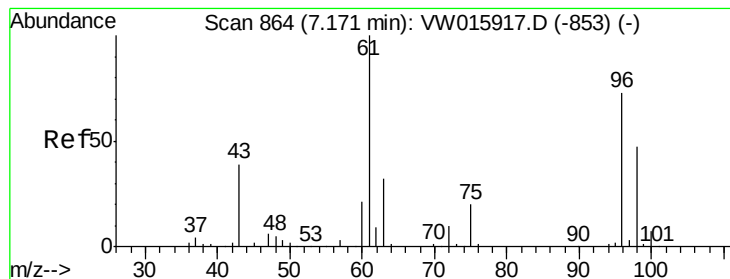
43 100

72 28.0 13.9 41.7



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: 27.022 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampled :

VSTD02521

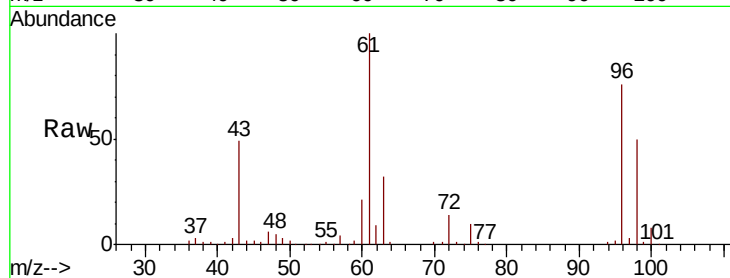
Tot Ion: 96 Resp: 164806

Ion Ratio Lower Upper

96 100

61 132.2 94.6 175.8

98 65.6 44.3 82.3

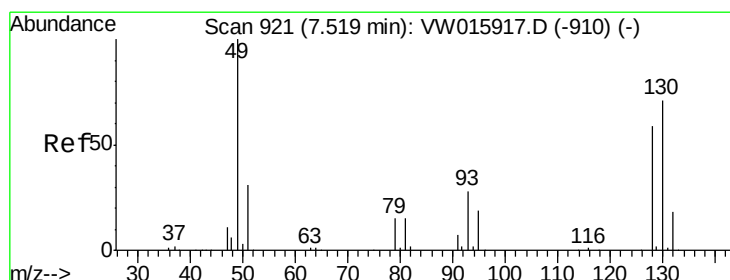
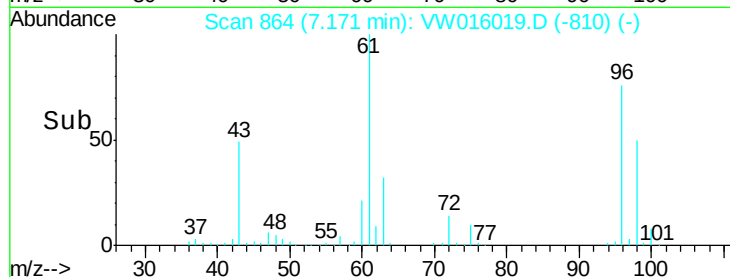
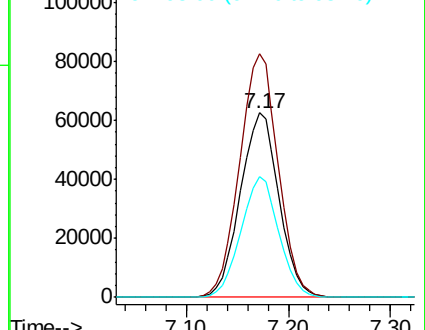


Abundance

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: 27.515 ug/L

RT: 7.52 min Scan# 921

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Tgt Ion: 128 Resp: 73586

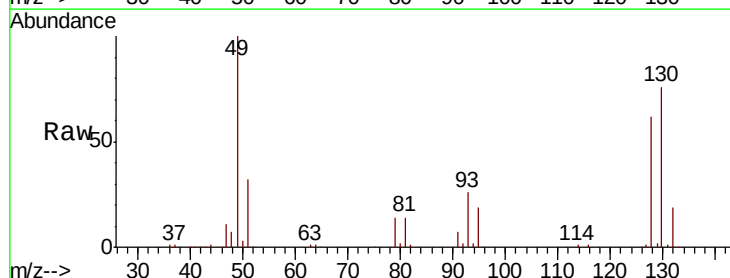
Ion Ratio Lower Upper

128 100

49 160.1 122.4 227.2

130 122.3 93.9 174.5

51 50.6 43.2 64.8



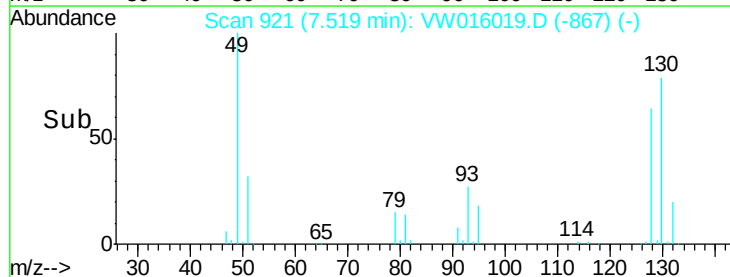
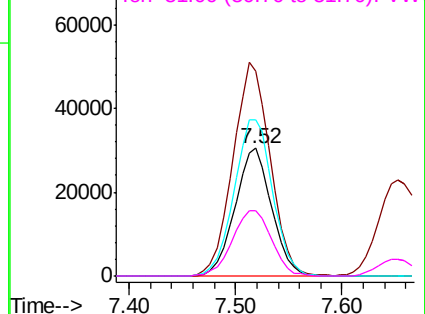
Abundance

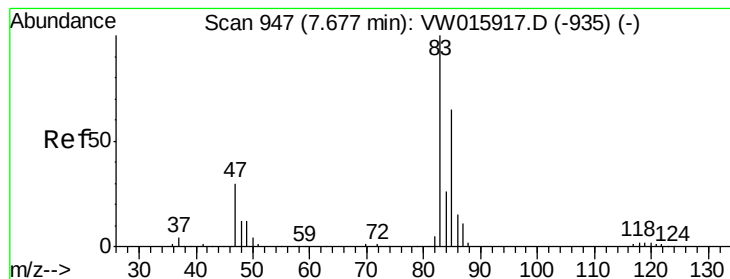
Ion 128.00 (127.70 to 128.70): V

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: 26.583 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

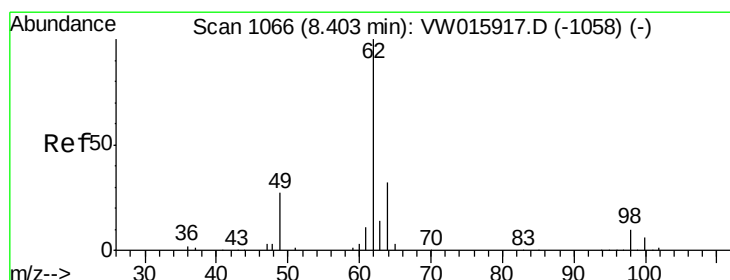
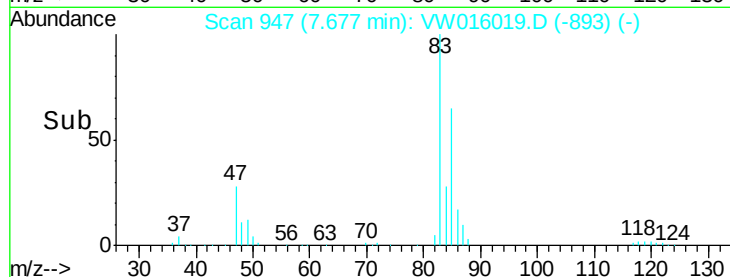
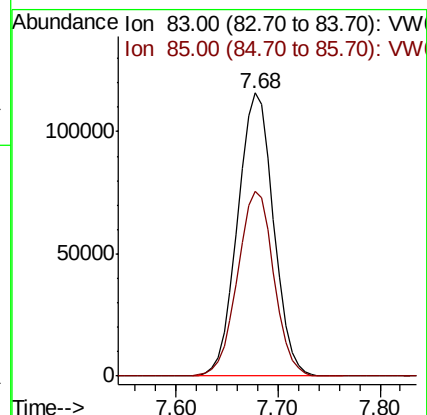
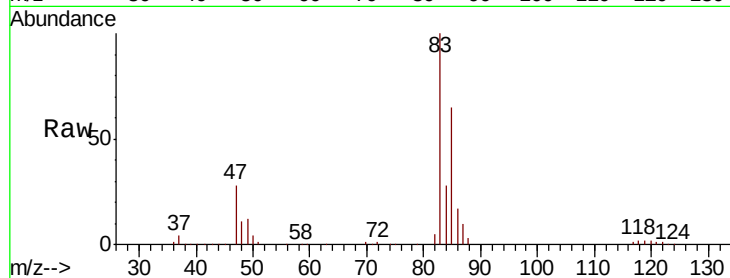
VSTD02521

Tot Ion: 83 Resp: 283024

Ion Ratio Lower Upper

83 100

85 66.3 46.5 86.5



#27

1,2-Dichloroethane

Concen: 25.328 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW016019.D

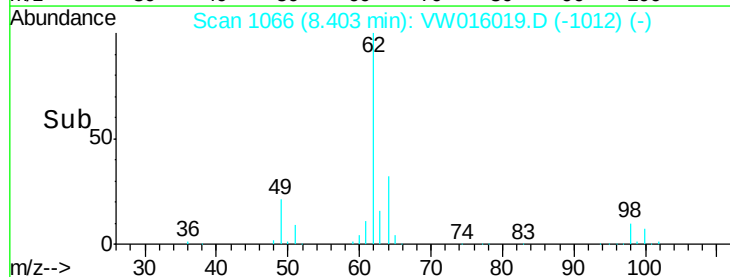
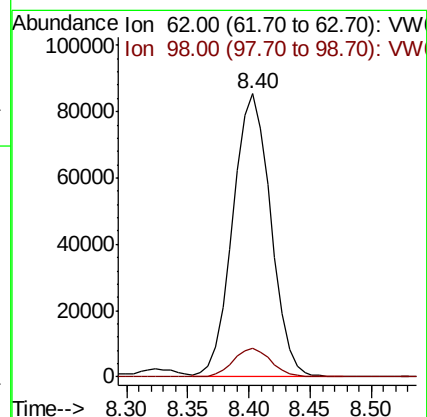
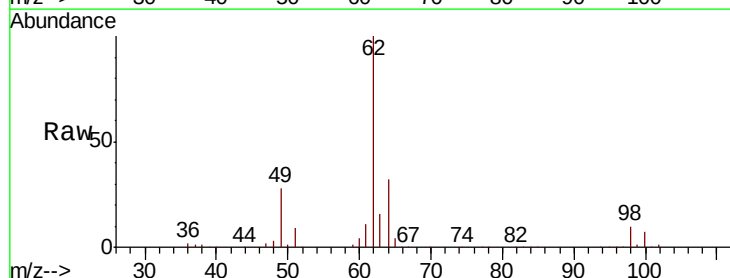
Acq: 31 Jul 2020 10:22

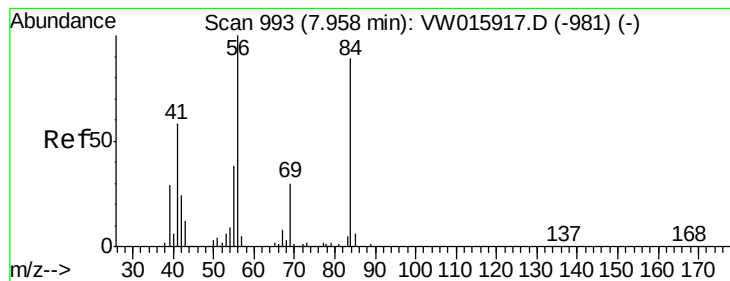
Tgt Ion: 62 Resp: 183489

Ion Ratio Lower Upper

62 100

98 9.9 7.0 10.6





#30

Cyclohexane

Concen: 26.614 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

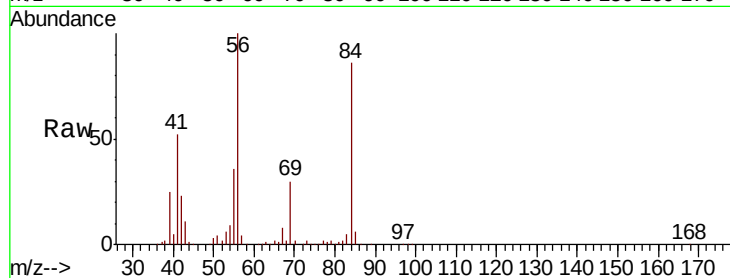
Tot Ion: 56 Resp: 262676

Ion Ratio Lower Upper

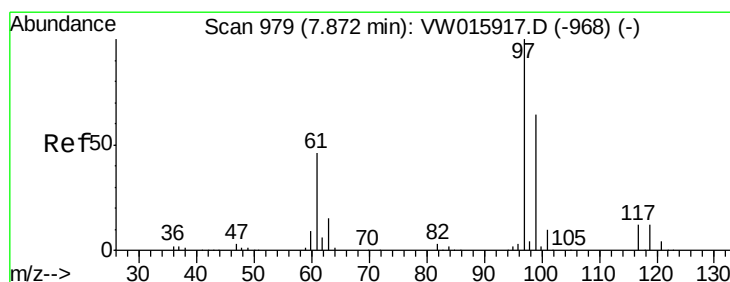
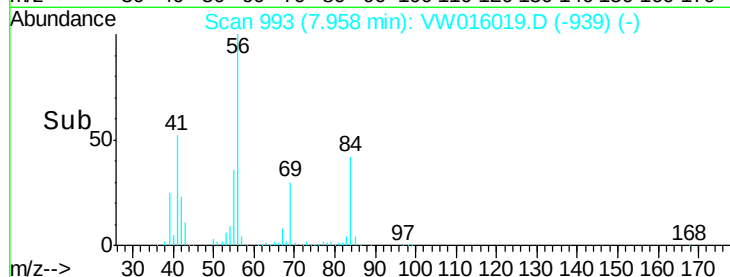
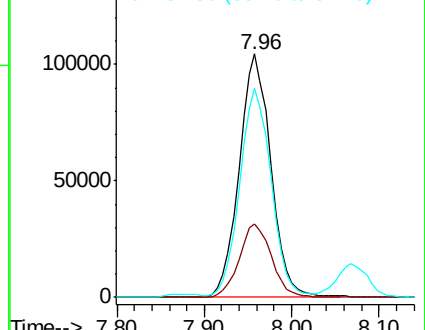
56 100

69 30.7 24.4 36.6

84 85.7 69.3 103.9



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: 26.366 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.01 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

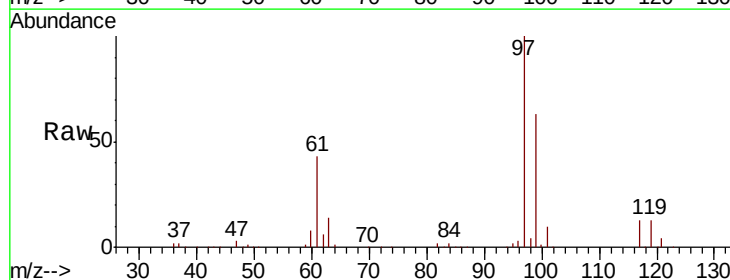
Tgt Ion: 97 Resp: 240981

Ion Ratio Lower Upper

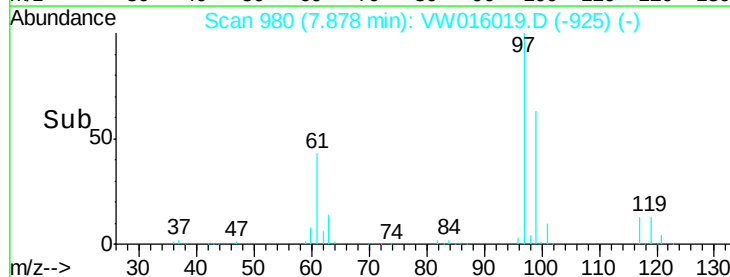
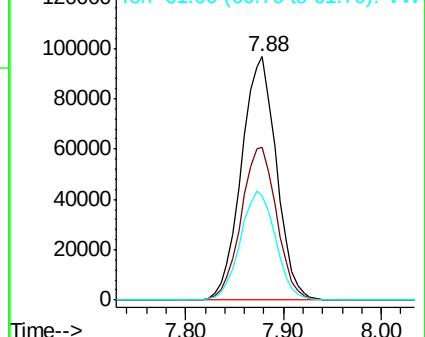
97 100

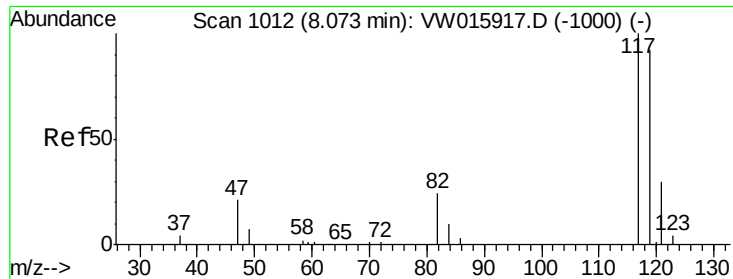
99 63.8 51.9 77.9

61 45.1 37.6 56.4



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: 25.556 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

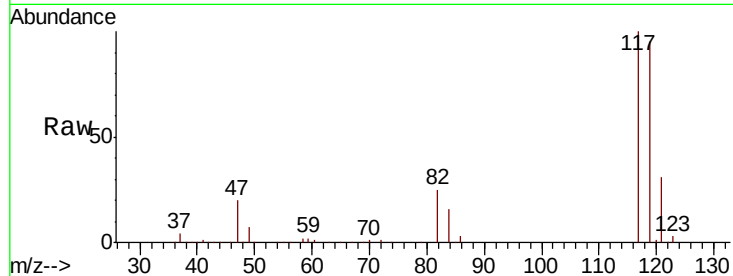
VSTD02521

Tot Ion:117 Resp: 211810

Ion Ratio Lower Upper

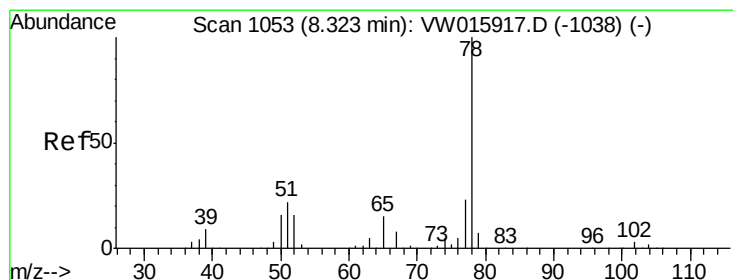
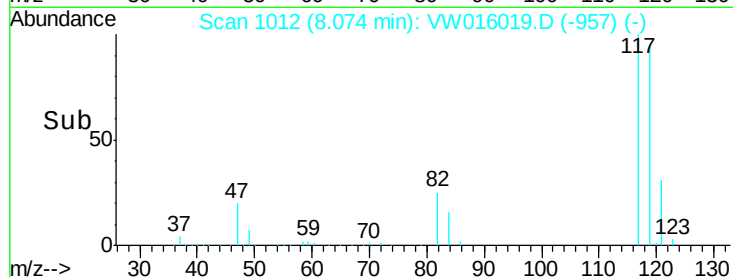
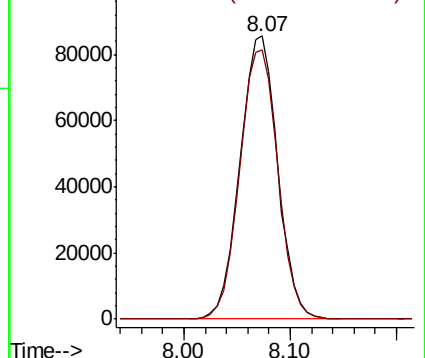
117 100

119 97.0 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.055 ug/L

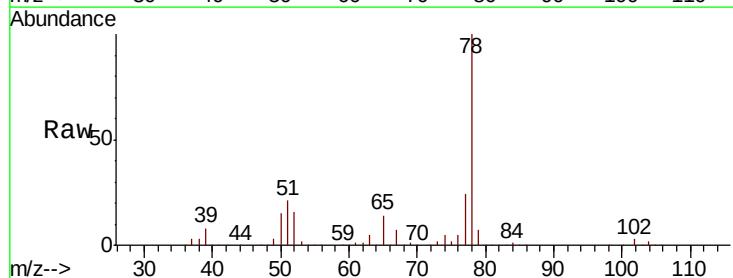
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

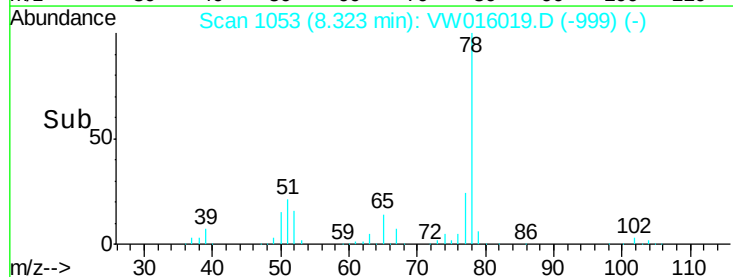
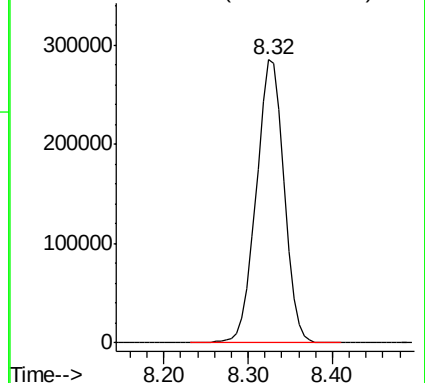
Lab File: VW016019.D

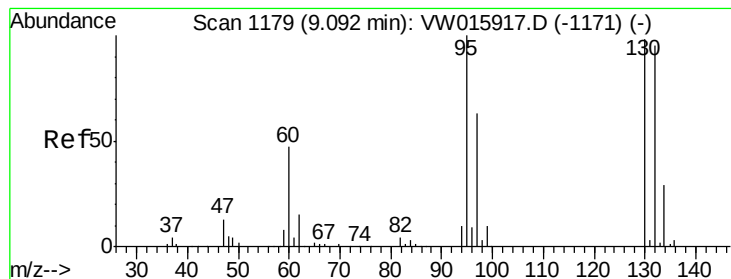
Acq: 31 Jul 2020 10:22

Tgt Ion: 78 Resp: 643192



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 25.810 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

Tot Ion: 95 Resp: 162317

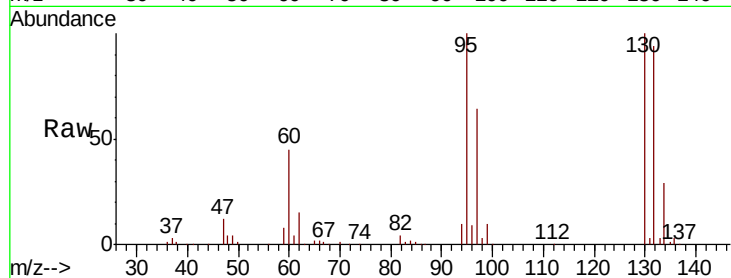
Ion Ratio Lower Upper

95 100

97 65.2 44.4 82.4

132 96.8 65.1 120.9

130 102.7 68.6 127.4



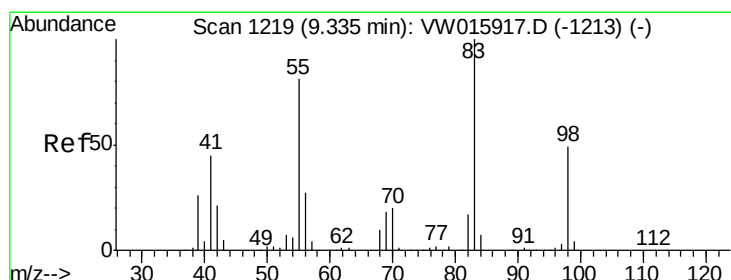
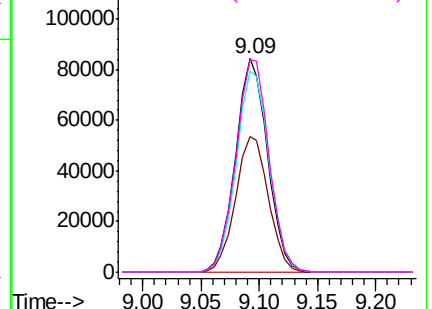
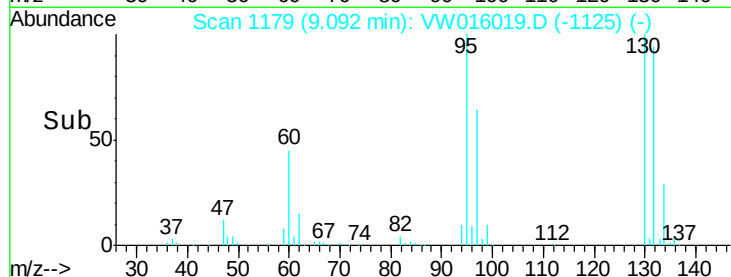
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 26.756 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

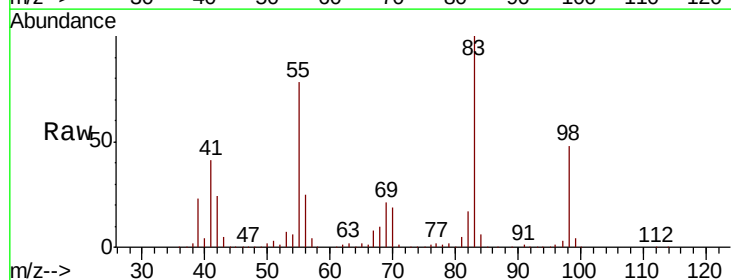
Tgt Ion: 83 Resp: 288726

Ion Ratio Lower Upper

83 100

55 77.8 63.5 95.3

98 48.3 39.0 58.4

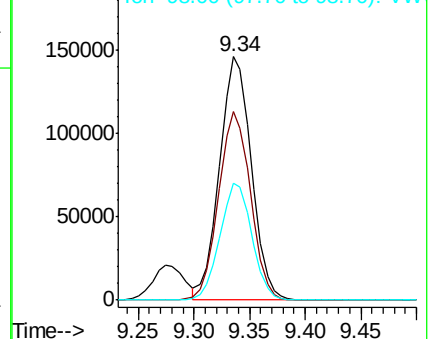
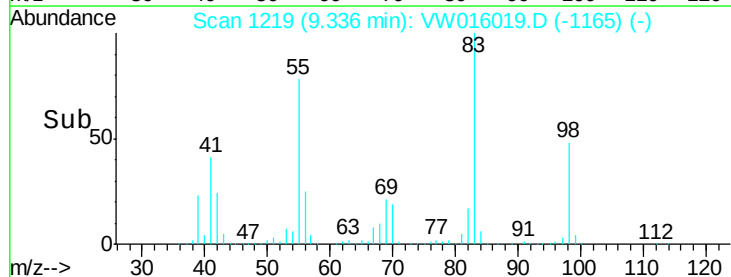


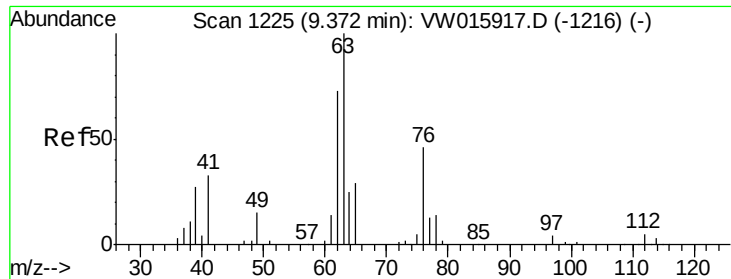
Abundance

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: 27.557 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

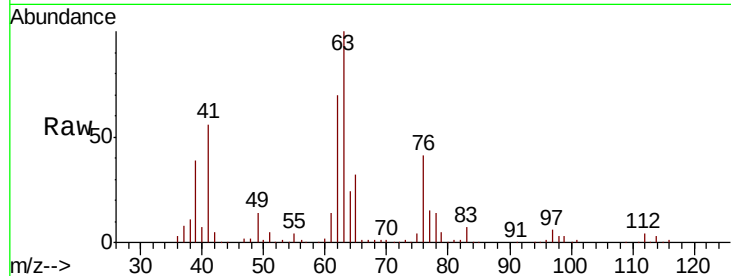
VSTD02521

Tot Ion: 63 Resp: 162295

Ion Ratio Lower Upper

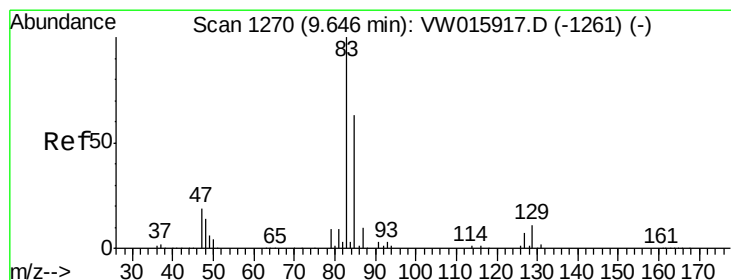
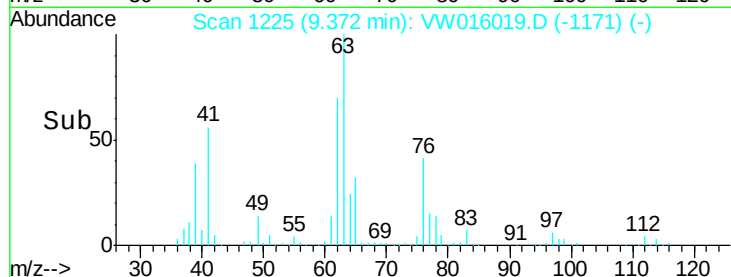
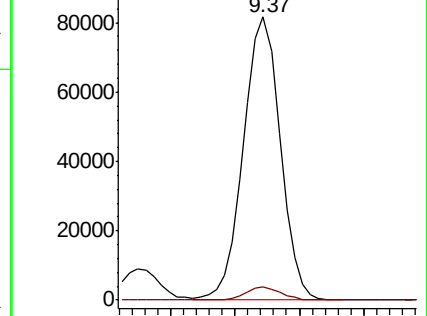
63 100

112 4.5 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 26.534 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

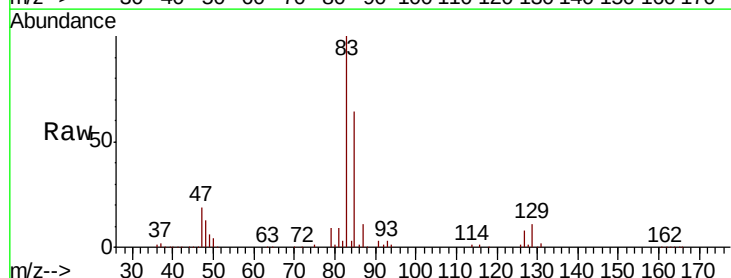
Tgt Ion: 83 Resp: 201813

Ion Ratio Lower Upper

83 100

85 64.1 43.7 81.1

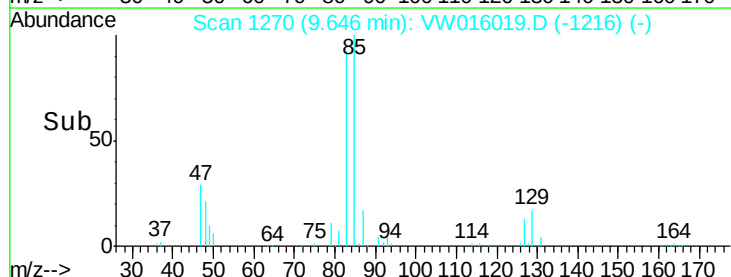
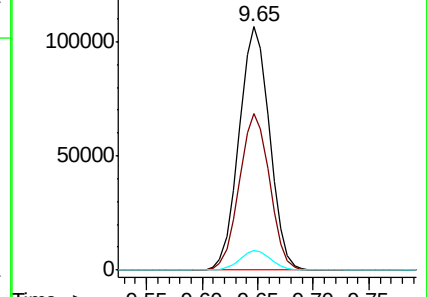
127 8.1 6.5 9.7

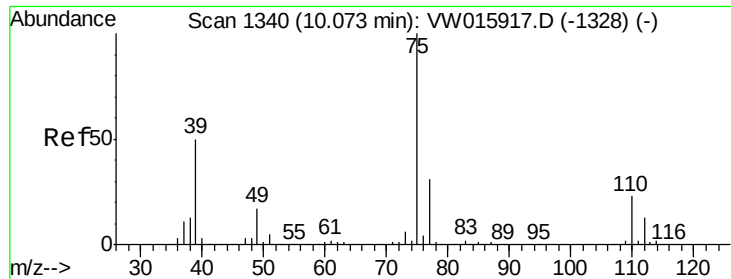


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

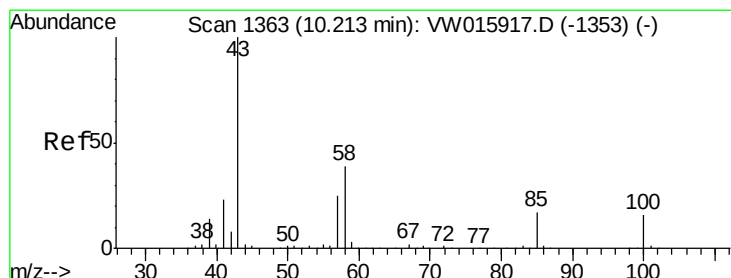
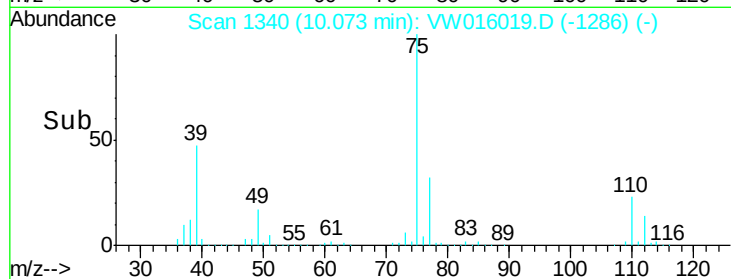
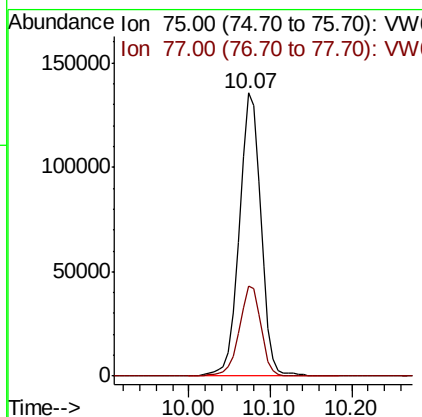
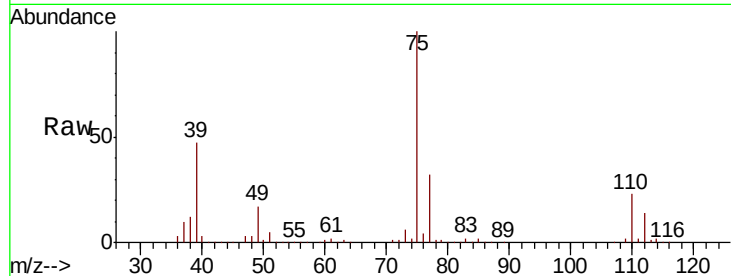




#42
 cis-1,3-Dichloropropene
 Concen: 27.520 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

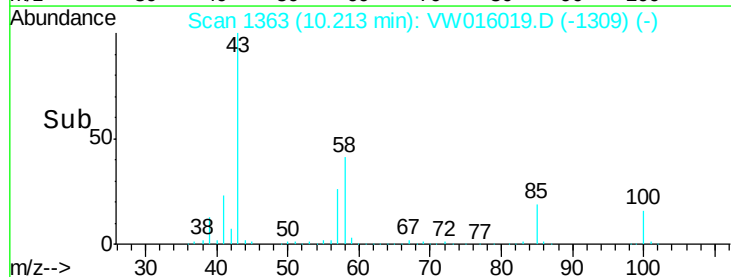
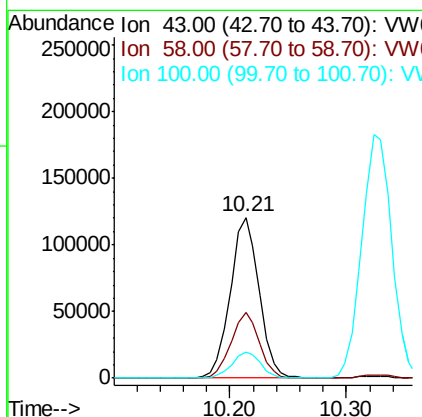
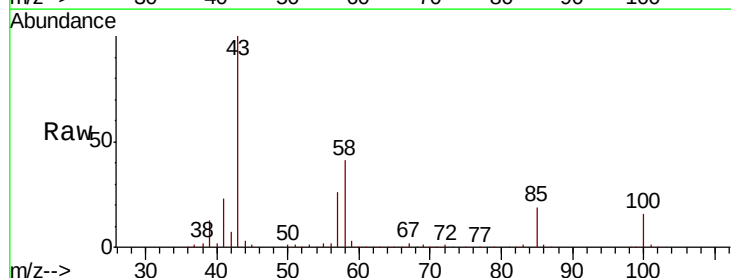
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02521

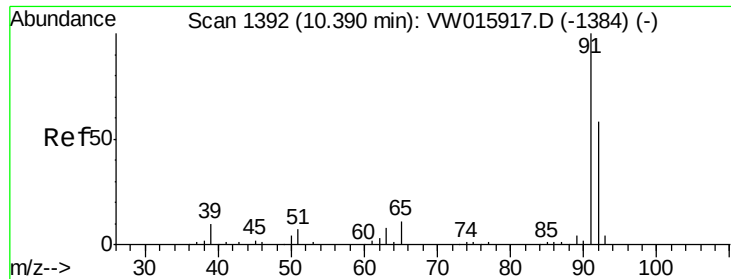
Tot Ion: 75 Resp: 246850
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.2 41.2



#43
 4-Methyl-2-pentanone
 Concen: 60.402 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

Tgt Ion: 43 Resp: 207637
 Ion Ratio Lower Upper
 43 100
 58 40.0 31.0 46.4
 100 16.2 12.6 19.0





#44

Toluene

Concen: 27.490 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampled :

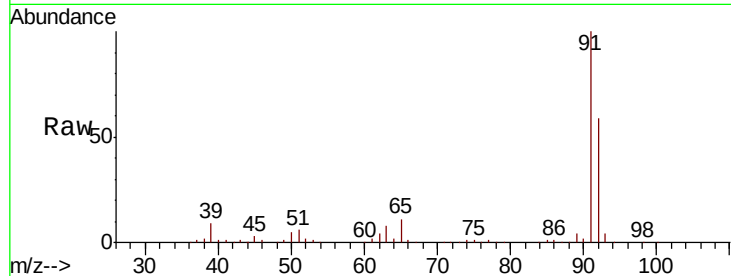
VSTD02521

Tot Ion: 91 Resp: 685428

Ion Ratio Lower Upper

91 100

92 59.0 41.2 76.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.39

400000

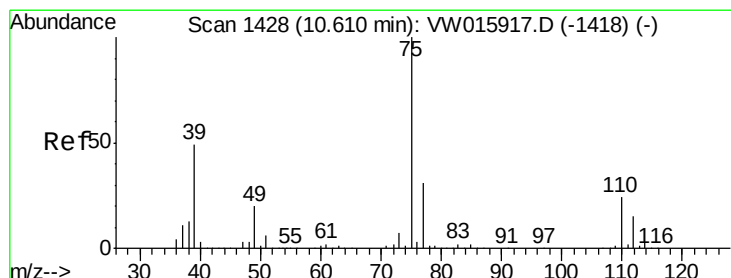
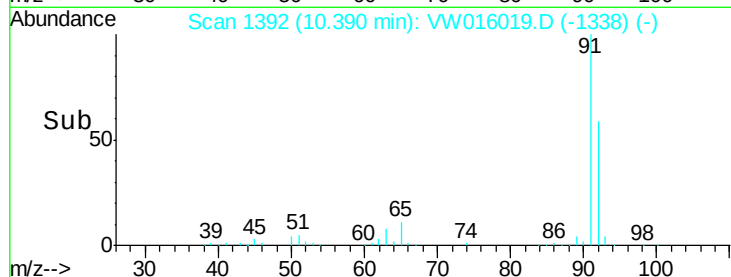
300000

200000

100000

0

Time--> 10.30 10.40



#45

trans-1,3-Dichloropropene

Concen: 27.526 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016019.D

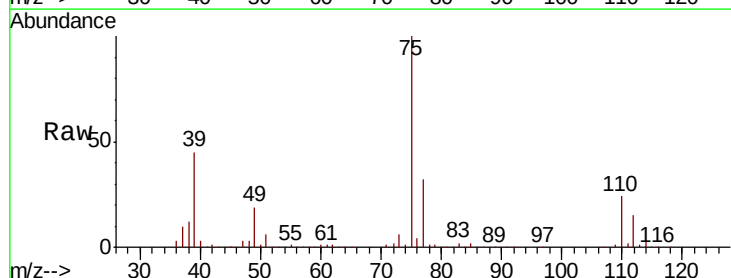
Acq: 31 Jul 2020 10:22

Tgt Ion: 75 Resp: 214005

Ion Ratio Lower Upper

75 100

77 32.0 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.61

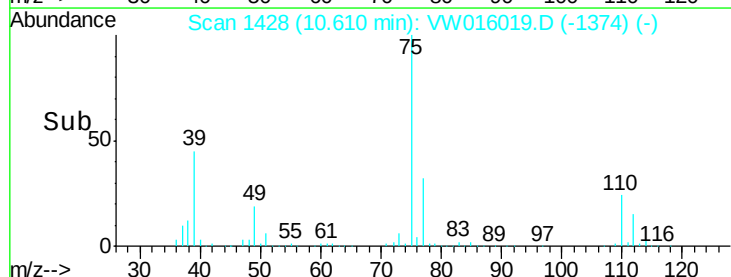
150000

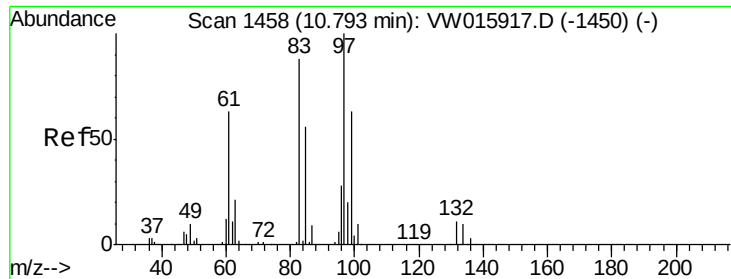
100000

50000

0

Time--> 10.50 10.60

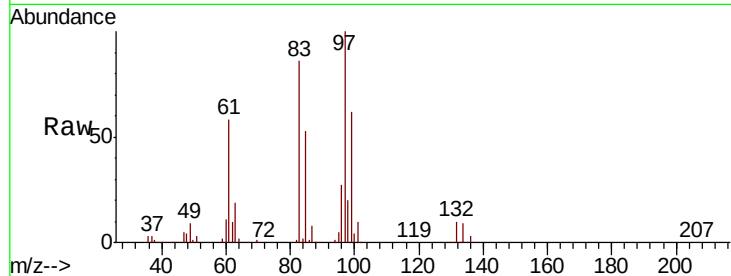




#46
1,1,2-Trichloroethane
Concen: 28.237 ug/L
RT: 10.79 min Scan# 1458
Delta R.T. 0.01 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.4	60.6	112.6
85	53.2	38.9	72.2
99	62.2	43.1	80.1



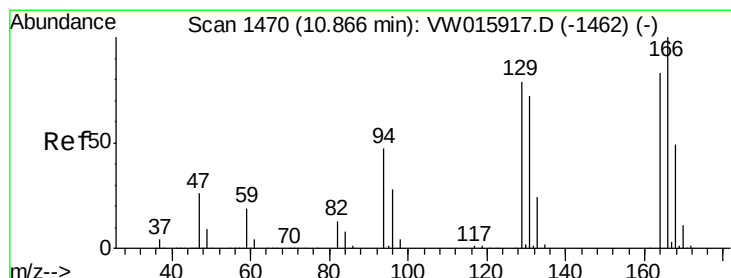
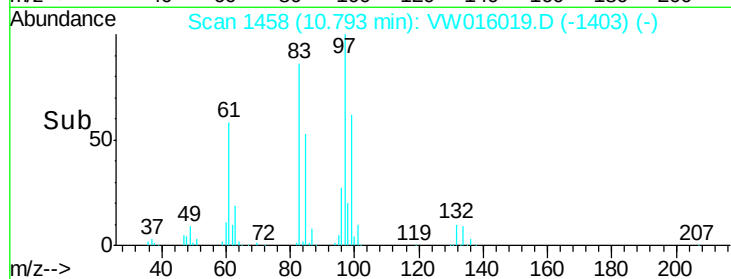
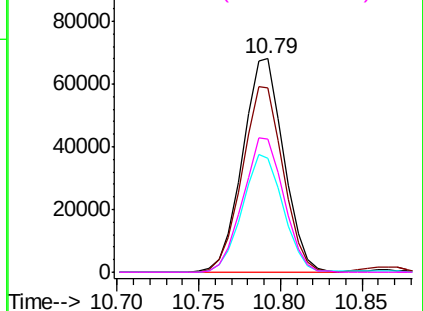
Abundance

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: 26.407 ug/L
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

Tgt Ion	Ratio	Lower	Upper
164	100		
129	99.6	70.0	130.0
131	94.0	67.3	124.9
166	112.4	88.5	164.3

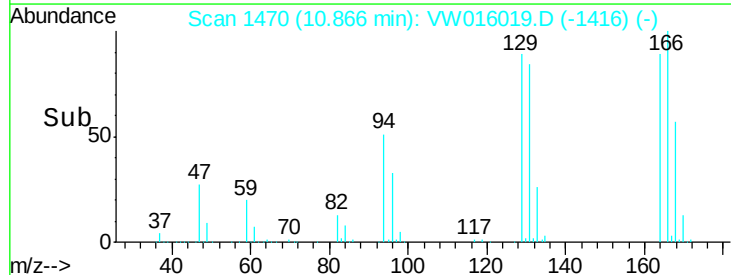
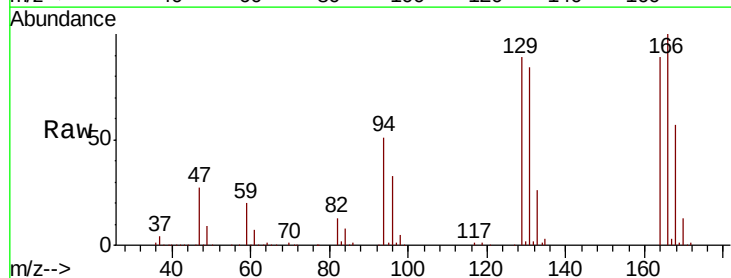
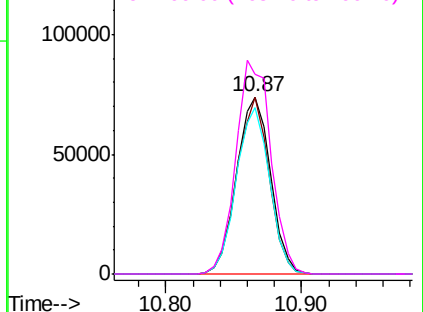
Abundance

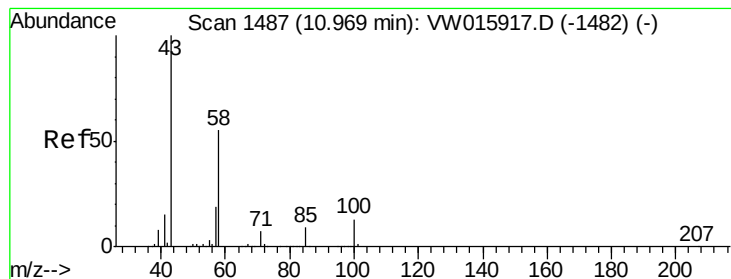
Ion 164.00 (163.70 to 164.70): V

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

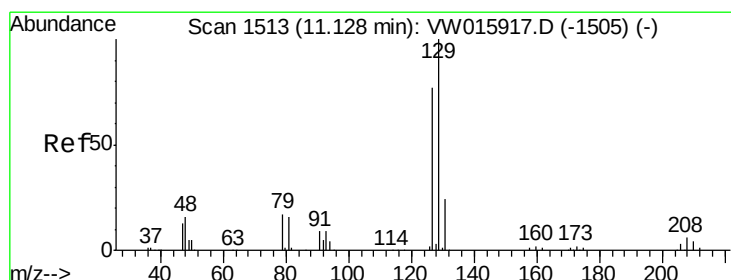
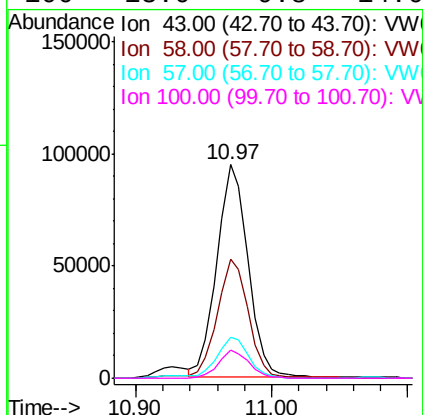
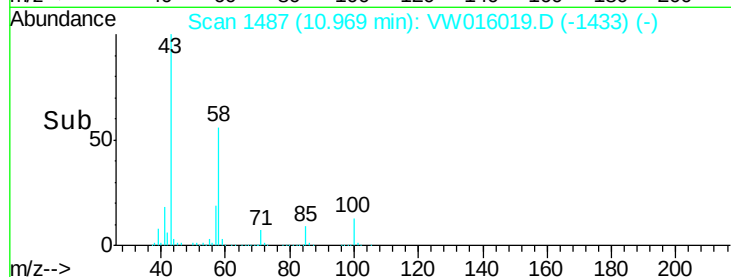
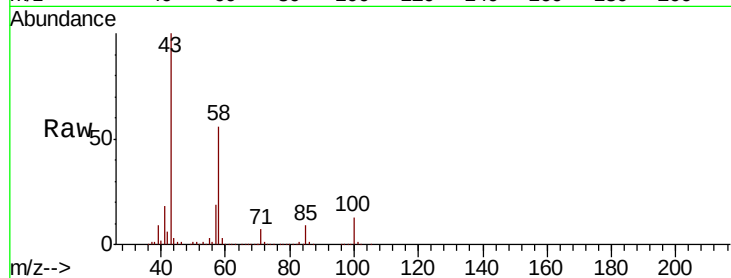




#49
2-Hexanone
Concen: 62.109 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

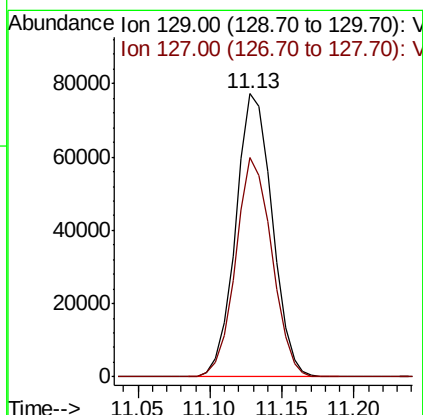
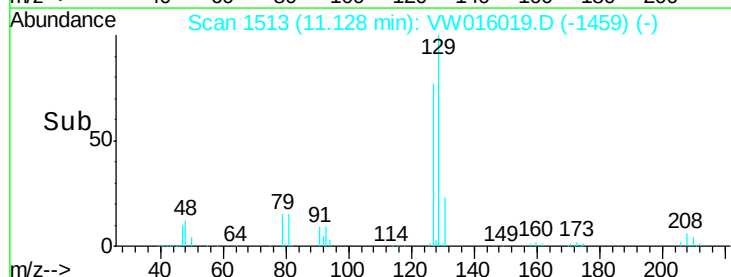
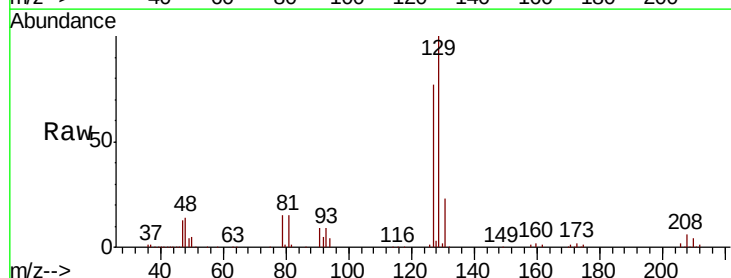
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

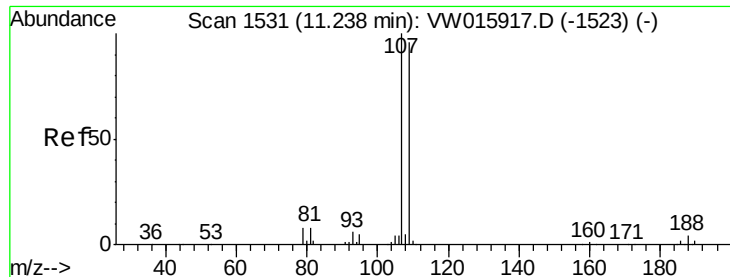
Tot Ion:	43	Resp:	151512
Ion	Ratio	Lower	Upper
43	100		
58	55.7	42.4	63.6
57	19.3	15.6	23.4
100	13.0	9.8	14.6



#50
Dibromochloromethane
Concen: 27.722 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

Tgt Ion:	129	Resp:	135924
Ion	Ratio	Lower	Upper
129	100		
127	77.4	53.8	100.0

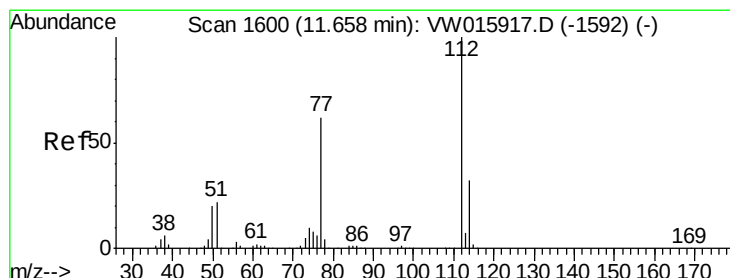
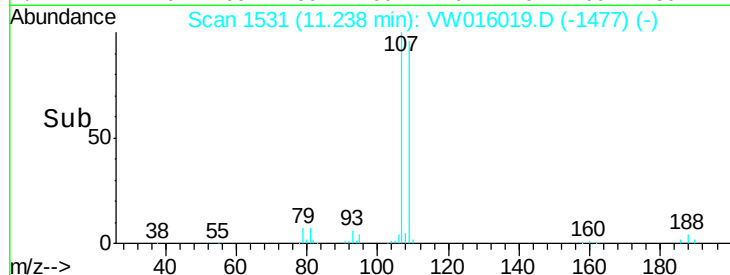
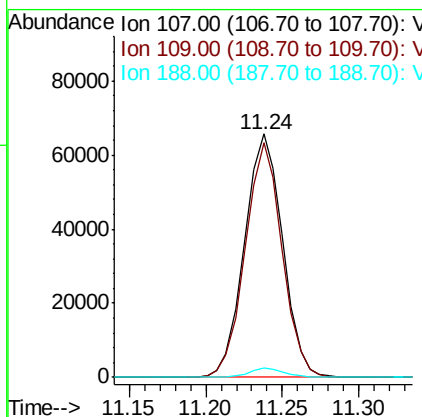
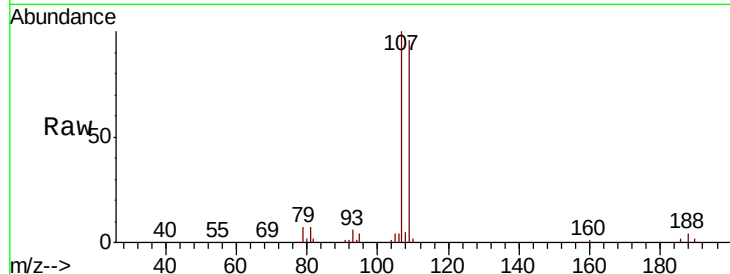




#51
1,2-Dibromoethane
Concen: 28.044 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

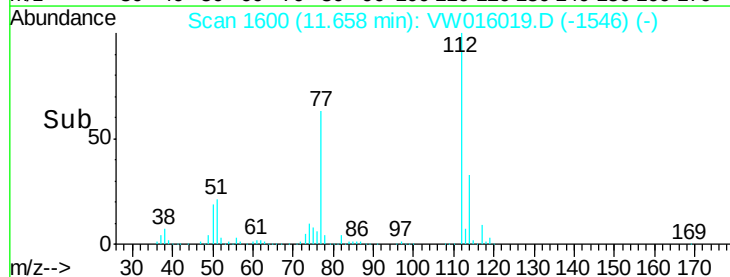
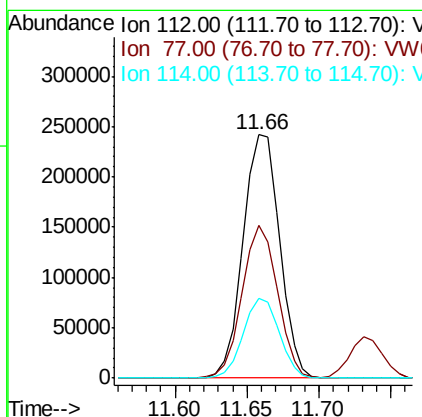
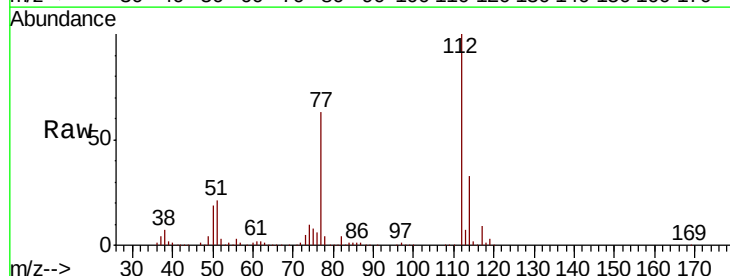
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

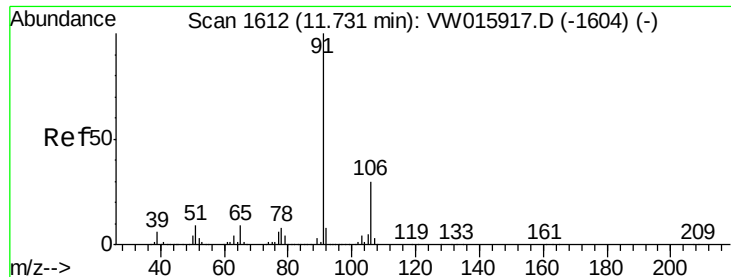
Tot Ion:107 Resp: 113616
Ion Ratio Lower Upper
107 100
109 96.3 66.9 124.3
188 3.6 3.2 4.8



#52
Chlorobenzene
Concen: 26.663 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

Tgt Ion:112 Resp: 426005
Ion Ratio Lower Upper
112 100
77 62.6 47.8 71.6
114 32.8 22.1 41.1

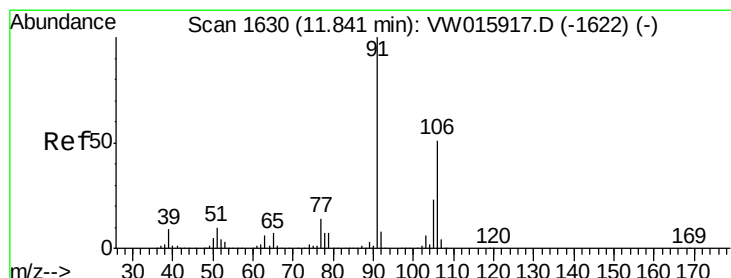
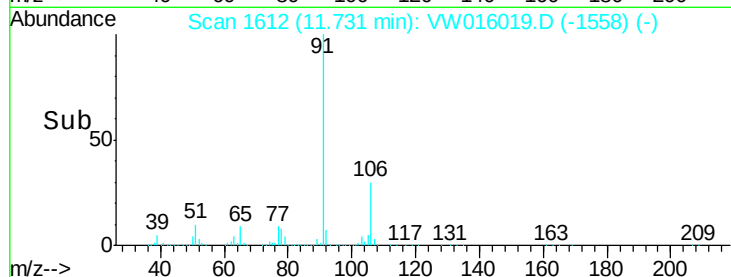
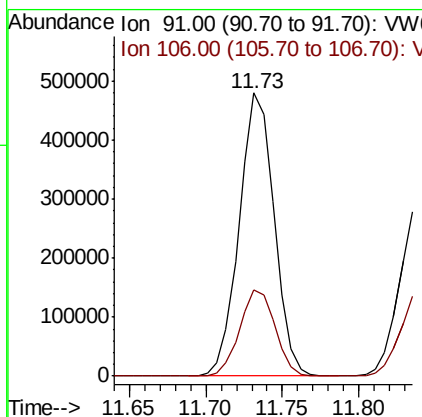
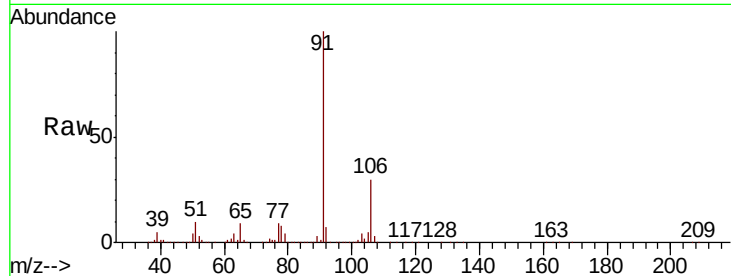




#53
Ethylbenzene
Concen: 27.170 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

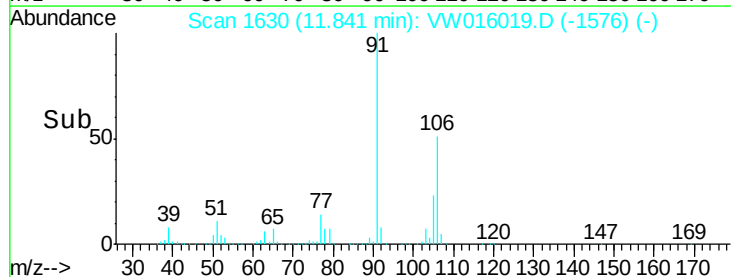
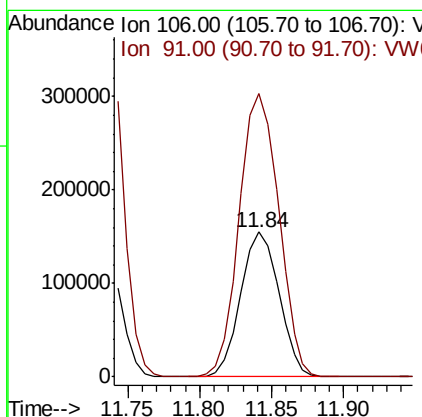
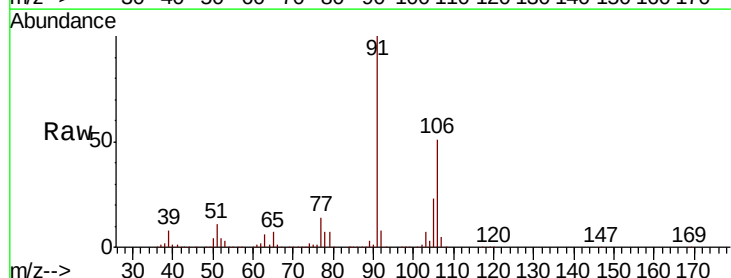
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

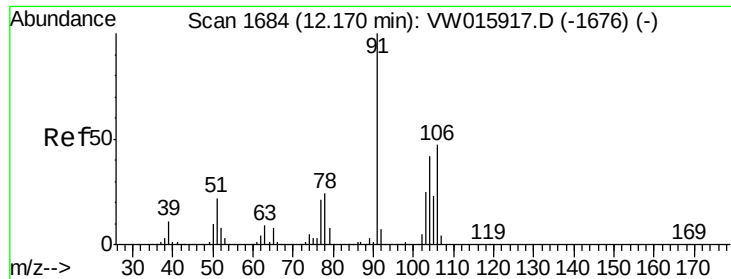
Tot Ion: 91 Resp: 761788
Ion Ratio Lower Upper
91 100
106 30.3 22.4 41.6



#54
m,p-Xylene
Concen: 27.457 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

Tgt Ion: 106 Resp: 288023
Ion Ratio Lower Upper
106 100
91 195.1 144.1 267.5

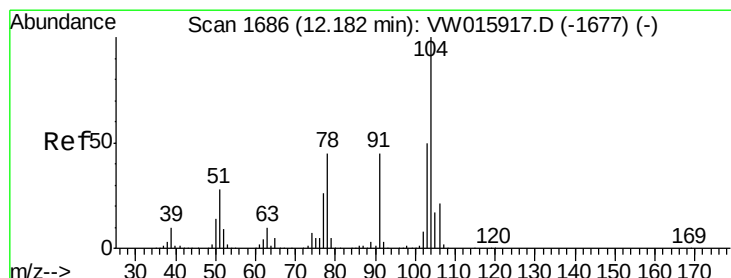
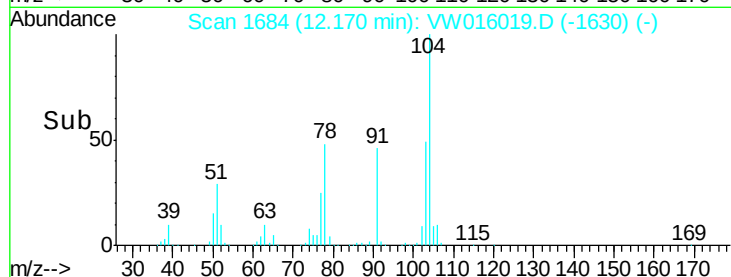
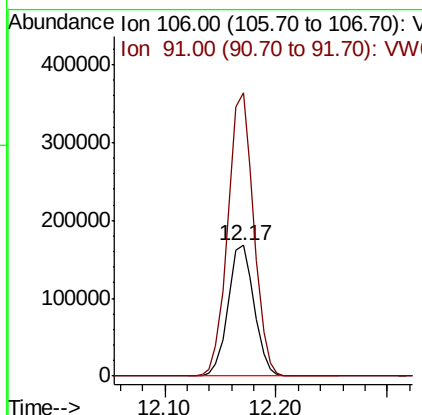
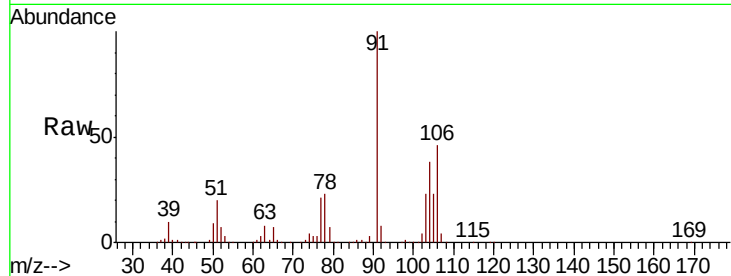




#55
o-xylene
Concen: 27.565 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

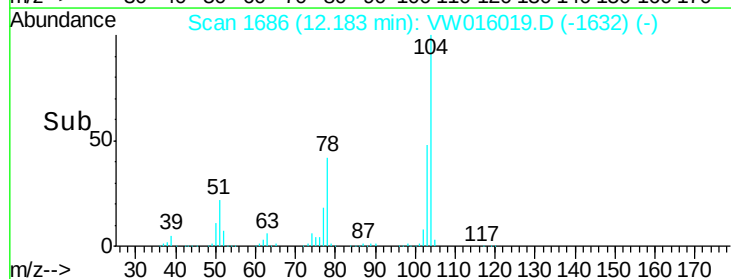
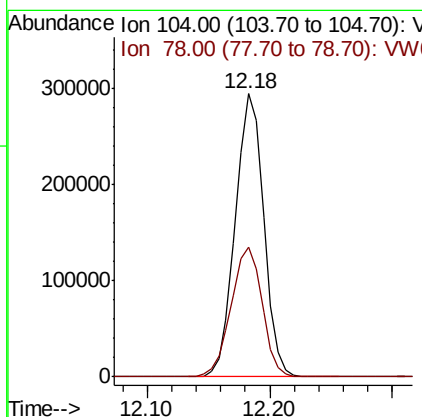
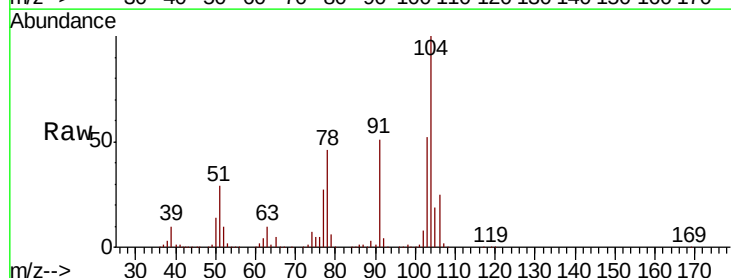
Instrument :
MSVOA_W
ClientSampled :
VSTD02521

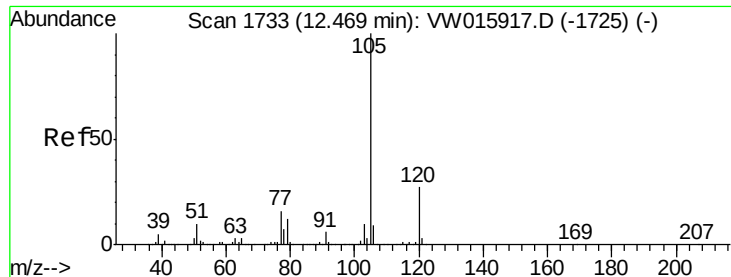
Tot Ion:106 Resp: 272274
Ion Ratio Lower Upper
106 100
91 216.7 146.8 272.6



#56
Styrene
Concen: 28.162 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW016019.D
Acq: 31 Jul 2020 10:22

Tgt Ion:104 Resp: 473045
Ion Ratio Lower Upper
104 100
78 46.0 32.0 59.4





#57

Isopropylbenzene

Concen: 28.228 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

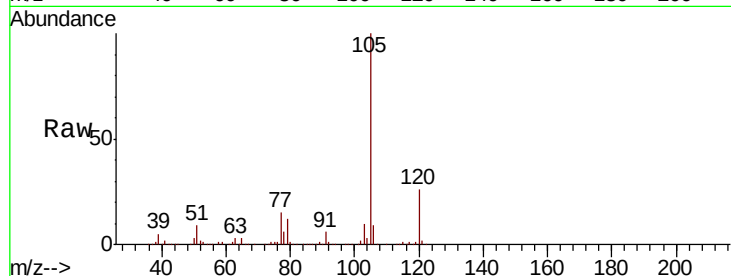
Tot Ion:105 Resp: 759003

Ion Ratio Lower Upper

105 100

120 25.9 20.4 30.6

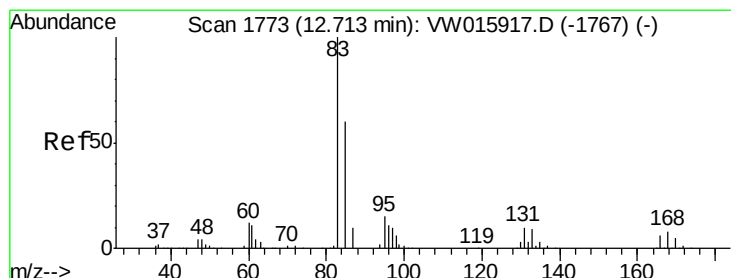
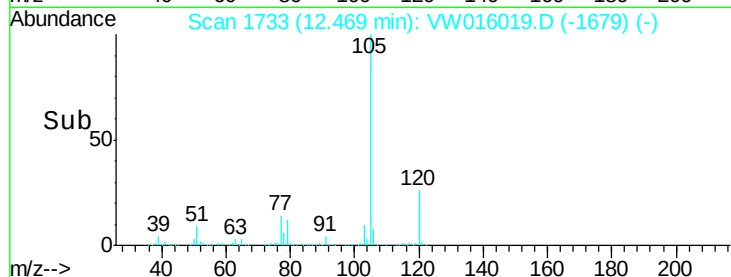
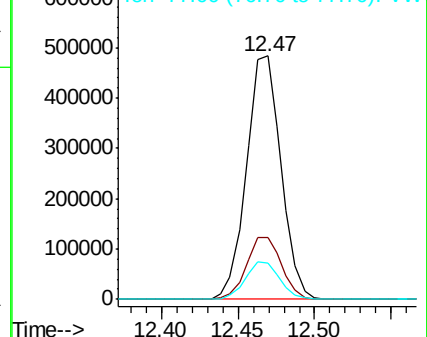
77 15.3 12.9 19.3



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: 29.534 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

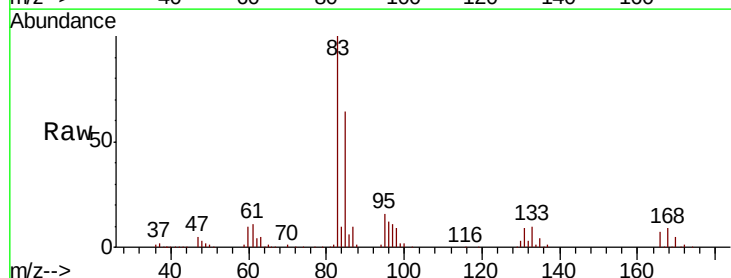
Tgt Ion: 83 Resp: 146877

Ion Ratio Lower Upper

83 100

85 64.1 45.1 83.7

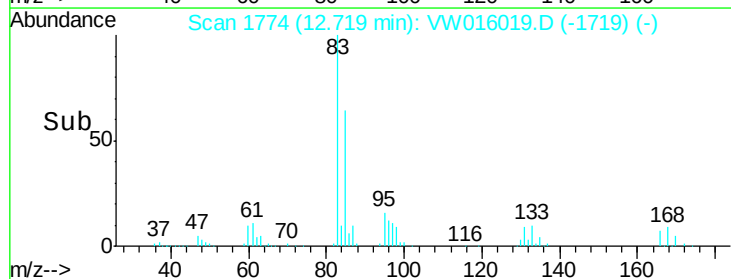
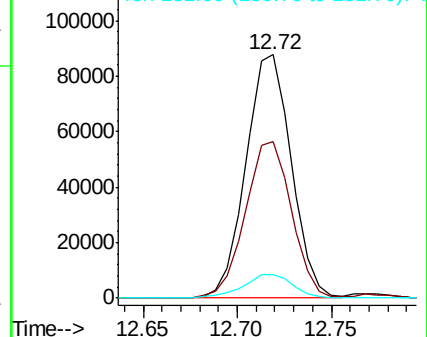
131 9.4 8.2 12.4

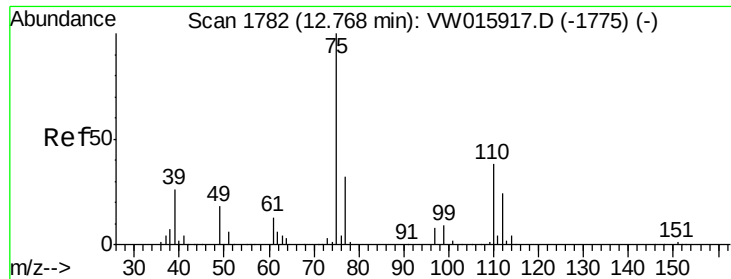


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 29.473 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampleId :

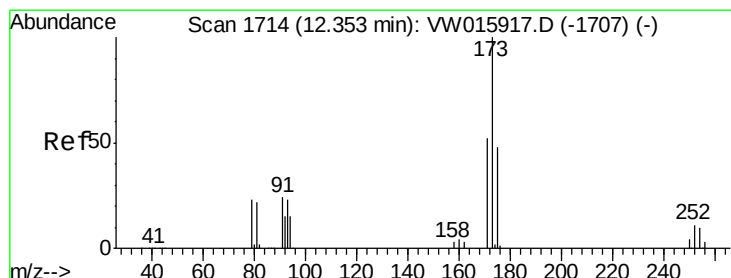
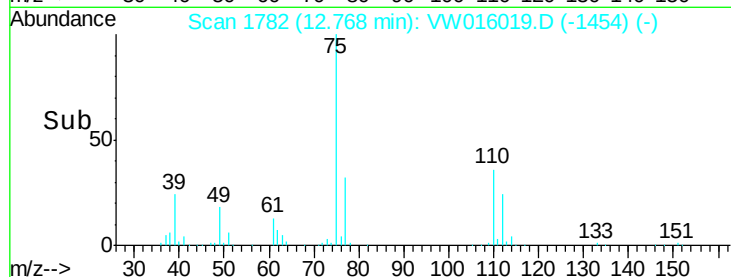
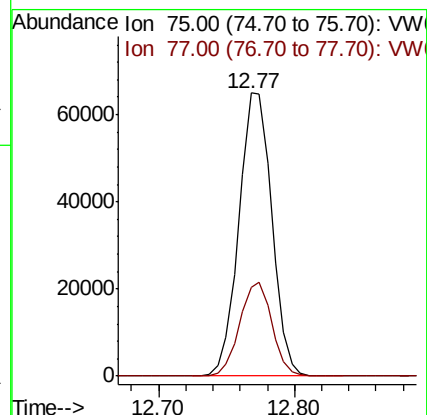
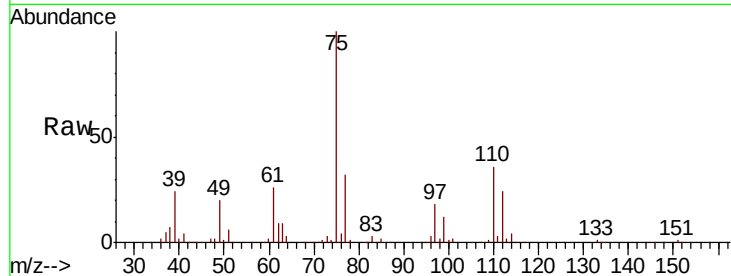
VSTD02521

Tot Ion: 75 Resp: 109820

Ion Ratio Lower Upper

75 100

77 32.4 26.0 39.0



#62

Bromoform

Concen: 27.535 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

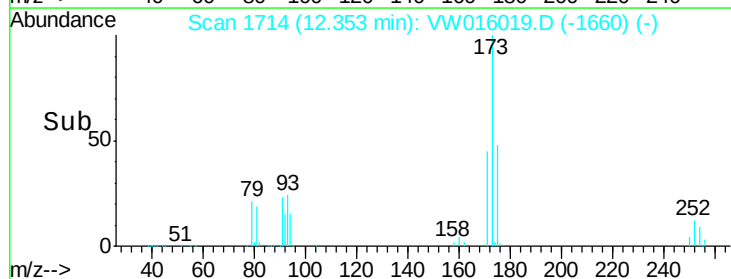
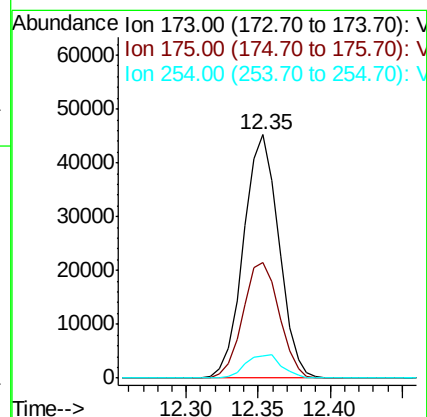
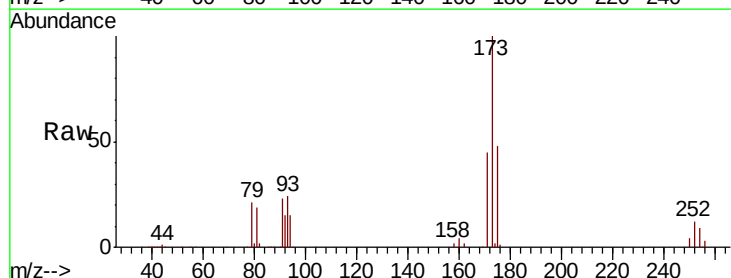
Tgt Ion: 173 Resp: 76800

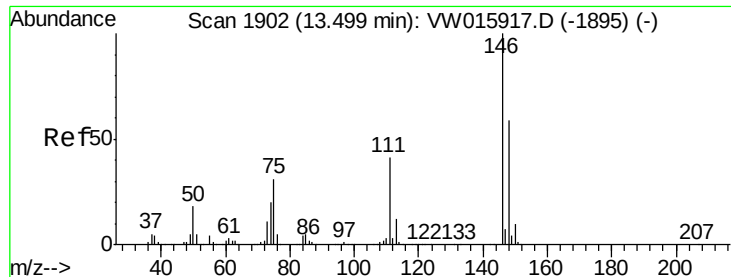
Ion Ratio Lower Upper

173 100

175 48.9 38.7 58.1

254 9.9 7.9 11.9

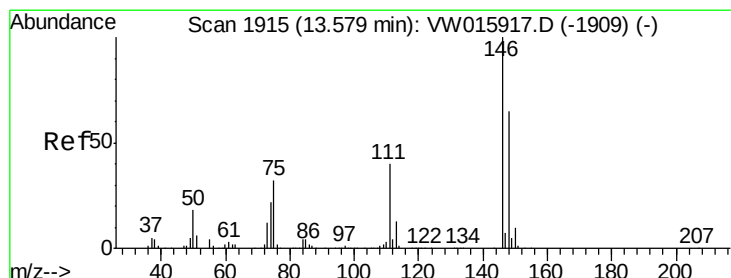
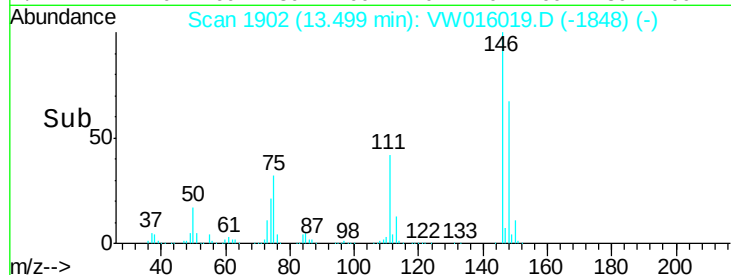
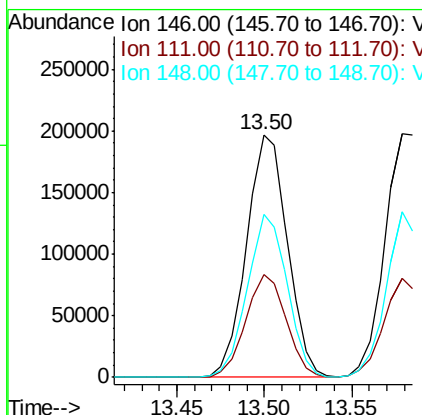
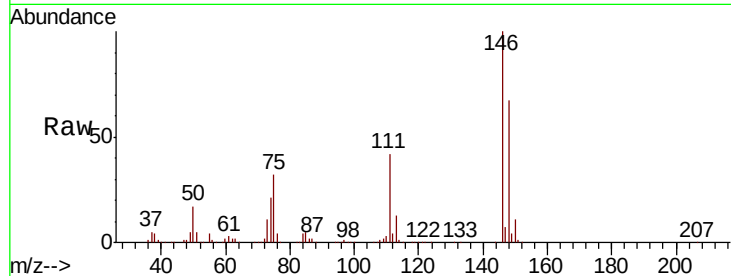




#63
 1,3-Dichlorobenzene
 Concen: 26.361 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

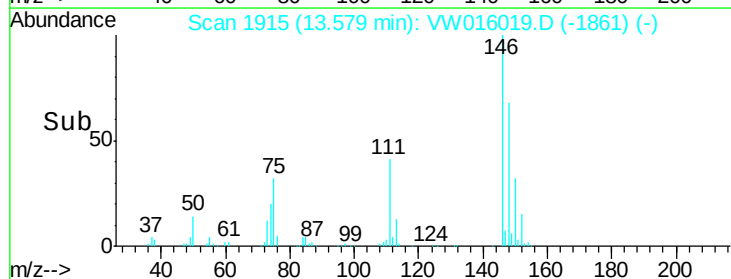
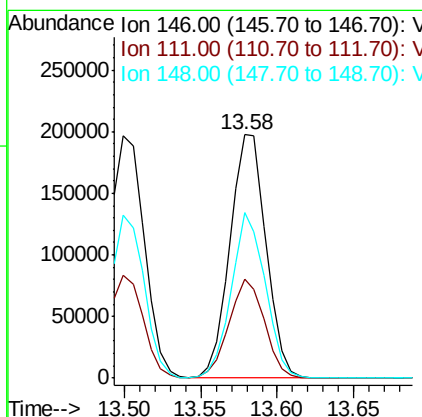
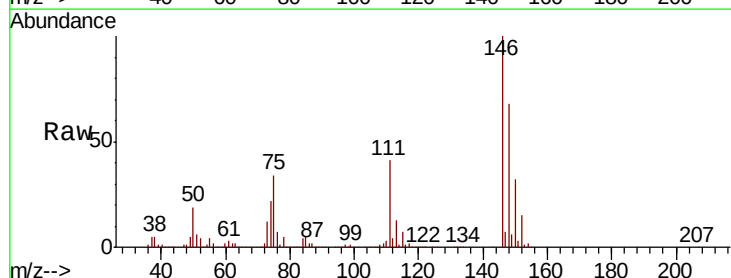
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

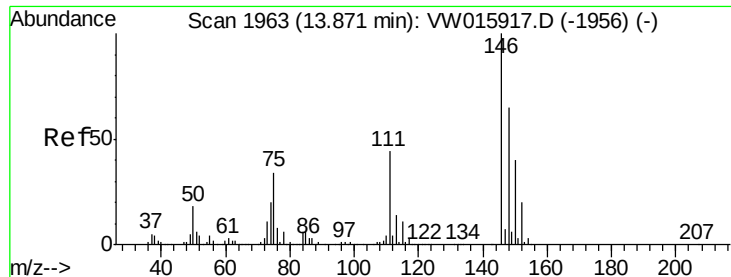
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	27.9	51.7
148	67.1	43.2	80.2



#64
 1,4-Dichlorobenzene
 Concen: 26.214 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	29.3	54.3
148	67.9	44.5	82.7

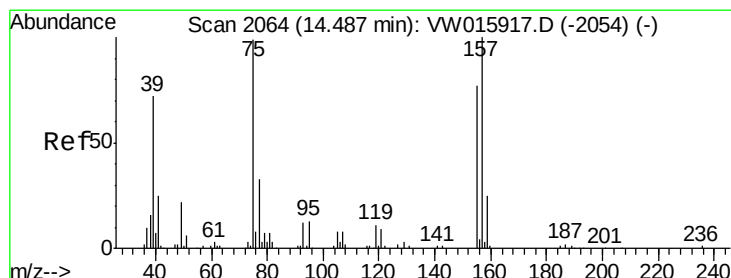
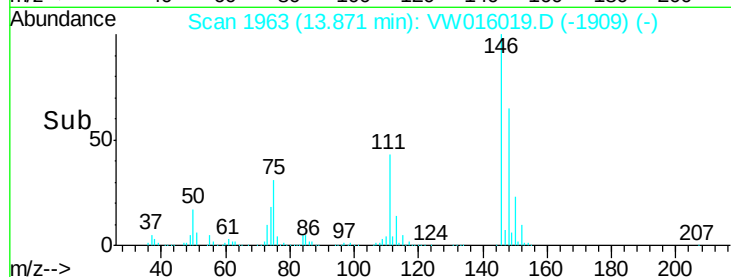
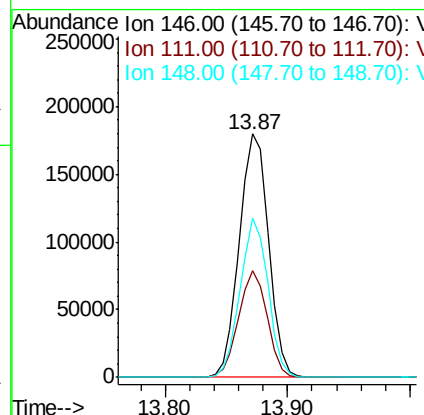
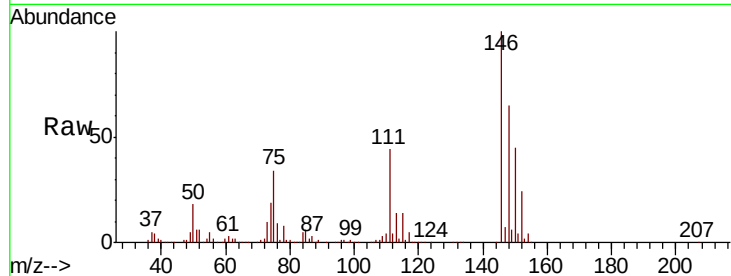




#65
 1,2-Dichlorobenzene
 Concen: 26.962 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

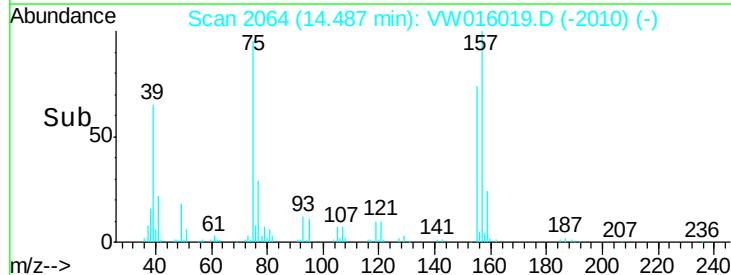
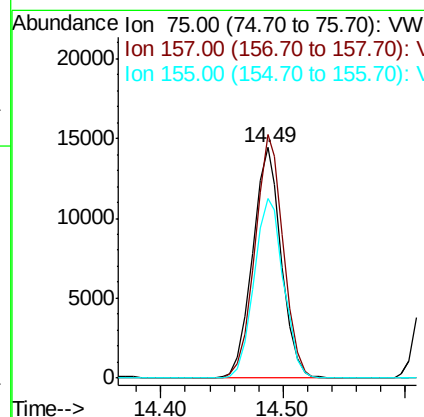
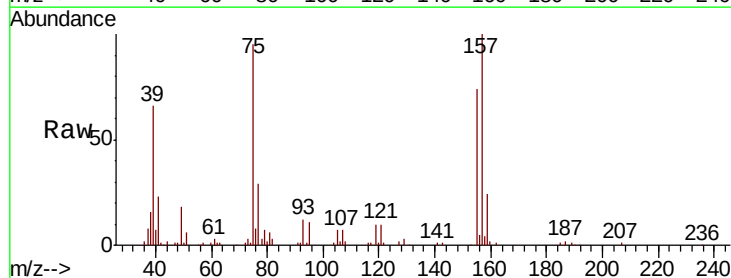
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

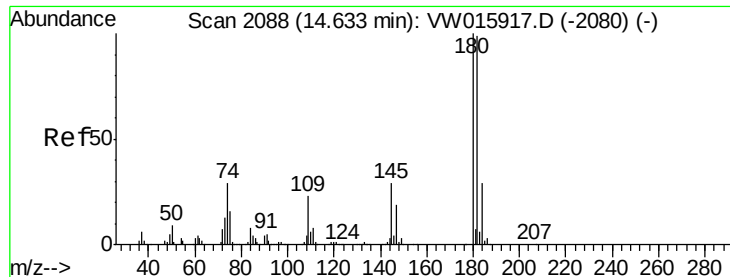
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.7	32.9	49.3
148	65.4	48.8	73.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 28.310 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

Tgt Ion	Ratio	Lower	Upper
75	100		
157	105.5	83.0	124.4
155	77.6	66.9	100.3

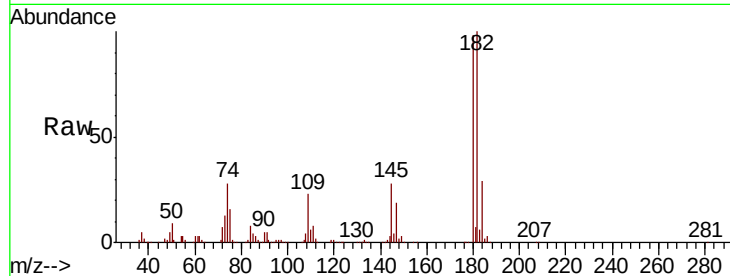




#67
 1,3,5-Trichlorobenzene
 Concen: 26.518 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

Tot Ion	180	Resp	226266
Ion Ratio	Lower	Upper	
180	100		
182	98.3	75.4	113.0
184	30.3	24.6	37.0
145	30.0	24.1	36.1

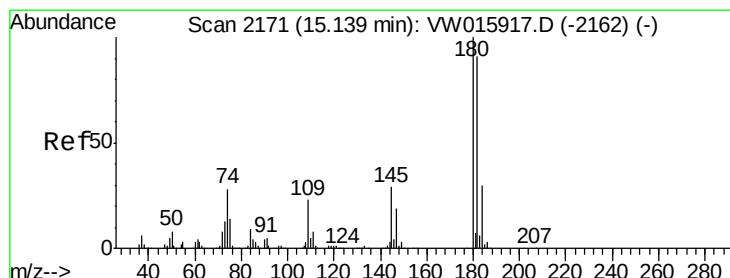
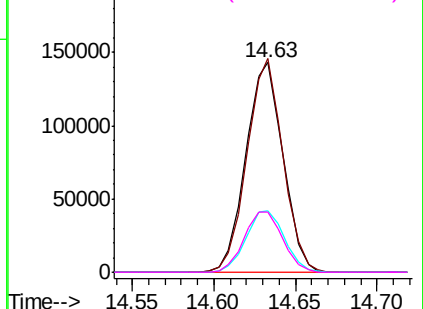
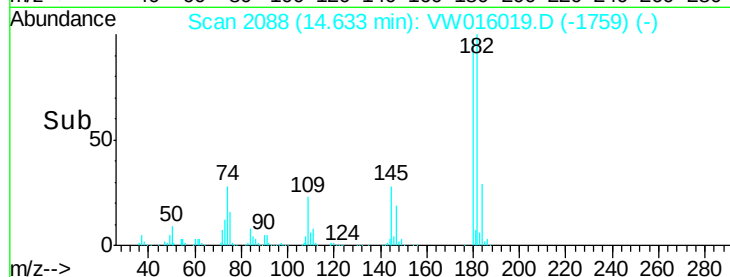


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

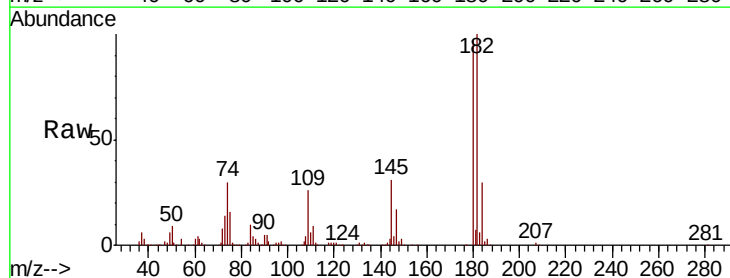
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 27.052 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016019.D
 Acq: 31 Jul 2020 10:22

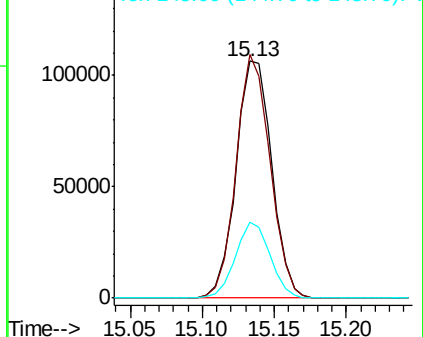
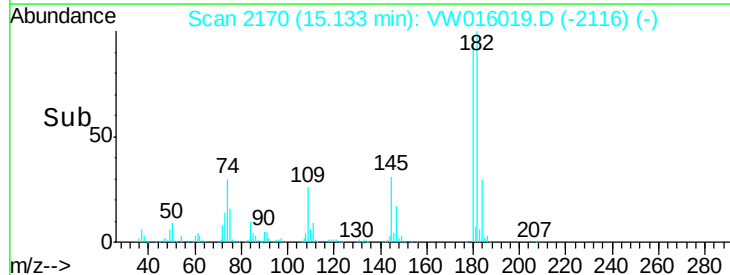
Tgt Ion	180	Resp	183344
Ion Ratio	Lower	Upper	
180	100		
182	97.8	76.0	114.0
145	31.0	24.3	36.5

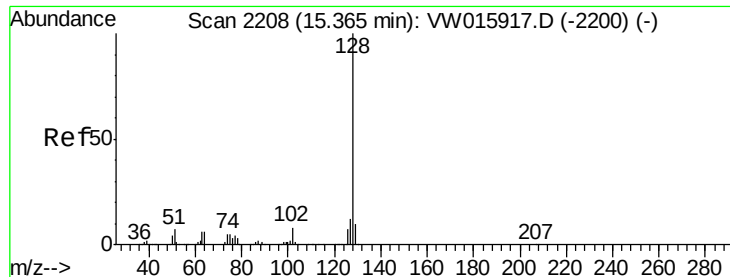


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.926 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

Instrument :

MSVOA_W

ClientSampled :

VSTD02521

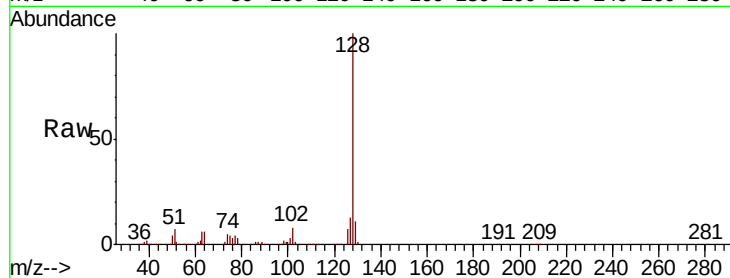
Tot Ion:128 Resp: 369333

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

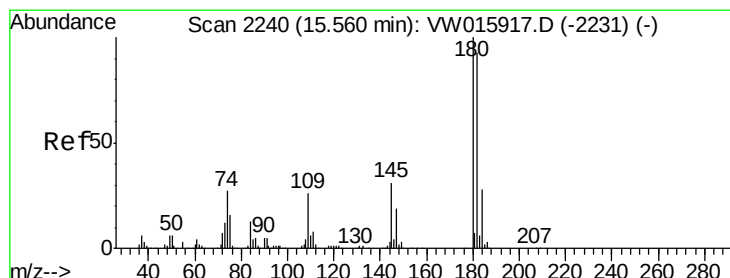
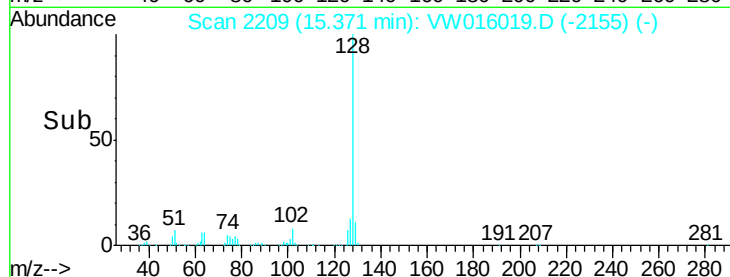
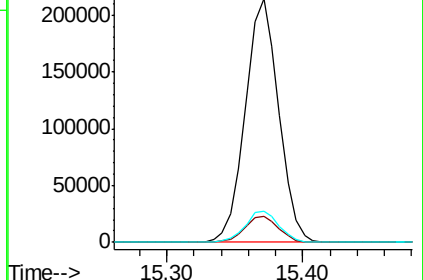
127 13.1 10.5 15.7



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: 27.640 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW016019.D

Acq: 31 Jul 2020 10:22

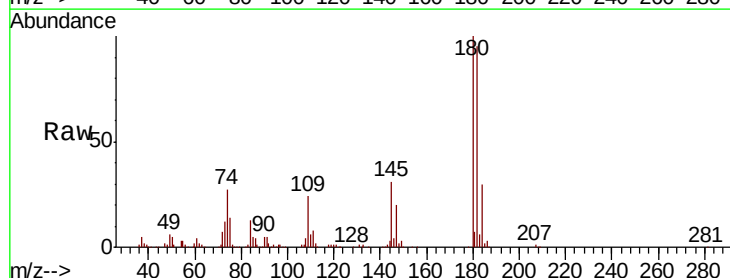
Tgt Ion:180 Resp: 166908

Ion Ratio Lower Upper

180 100

182 93.1 74.0 111.0

145 32.7 25.9 38.9



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

