

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061820\
 Data File : VW015636.D
 Acq On : 18 Jun 2020 15:24
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

Quant Time: Jun 19 07:33:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM052620S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 19 07:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	328252	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	308319	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	156747	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	53095	17.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	70.60%
7) Chloroethane-d5	2.90	69	66000	22.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.24%
10) 1,1-Dichloroethene-d2	4.02	63	142491	19.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	77.76%
20) 2-Butanone-d5	7.09	46	54848	55.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.70%
24) Chloroform-d	7.65	84	171031	22.53	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.12%
26) 1,2-Dichloroethane-d4	8.31	65	97731	23.14	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.56%
29) Benzene-d6	8.27	84	313274	20.72	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	82.88%
33) 1,2-Dichloropropane-d6	9.27	67	98756	21.49	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	85.96%
37) Toluene-d8	10.32	98	305348	20.77	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	83.08%
38) trans-1,3-Dichloropropene-	10.58	79	41326	19.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	77.76%
39) 2-Hexanone-d5	10.93	63	44818	56.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.68%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	93115	26.91	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	107.64%
61) 1,2-Dichlorobenzene-d4	13.85	152	116853	22.25	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	62812	21.660	ug/L	98
3) Chloromethane	2.22	50	58401	18.294	ug/L	99
5) Vinyl chloride	2.37	62	103798	21.621	ug/L	99
6) Bromomethane	2.79	94	67214	21.541	ug/L	100
8) Chloroethane	2.93	64	64694	22.138	ug/L	99
9) Trichlorofluoromethane	3.26	101	80052	23.431	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	88857	21.929	ug/L	97
12) 1,1-Dichloroethene	4.04	96	81947	20.937	ug/L	86
13) Acetone	4.12	43	50994	67.165	ug/L	100
14) Carbon disulfide	4.39	76	235580	18.042	ug/L	98
15) Methyl Acetate	4.68	43	39767	24.210	ug/L	98
16) Methylene chloride	4.92	84	103725	25.747	ug/L	98
17) Methyl tert-butyl Ether	5.43	73	138238	22.256	ug/L	99
18) trans-1,2-Dichloroethene	5.43	96	89416	21.317	ug/L	98
19) 1,1-Dichloroethane	6.22	63	165654	21.956	ug/L	99
21) 2-Butanone	7.18	43	60545	51.911	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	96218	21.989	ug/L	100

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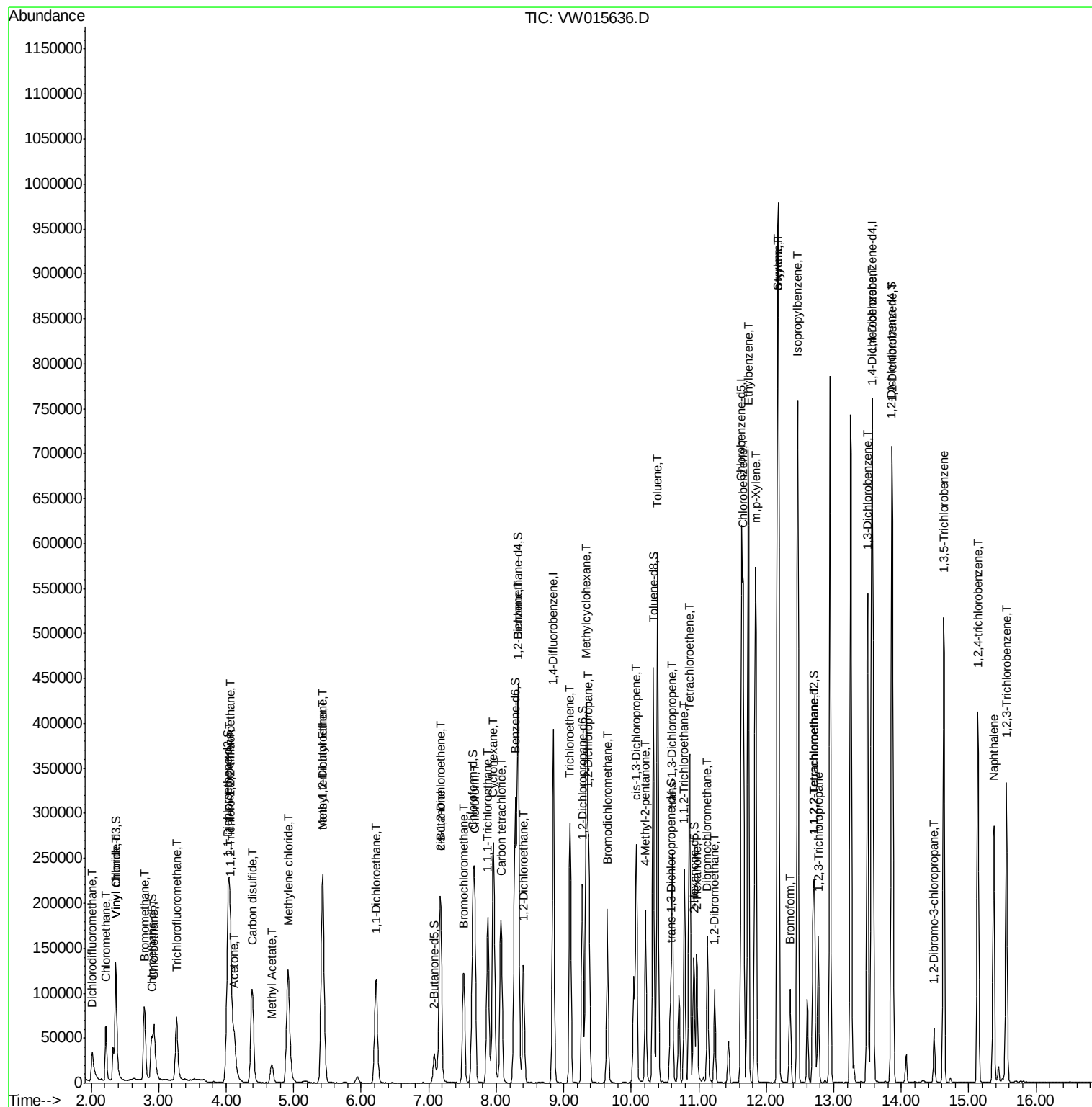
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	44003	23.320	ug/L	100
25) Chloroform	7.68	83	173656	22.859	ug/L	99
27) 1,2-Dichloroethane	8.40	62	121654	23.671	ug/L	99
30) Cyclohexane	7.96	56	149117	19.566	ug/L	98
31) 1,1,1-Trichloroethane	7.88	97	149018	21.604	ug/L	99
32) Carbon tetrachloride	8.07	117	136740	21.614	ug/L	99
34) Benzene	8.33	78	372020	21.576	ug/L	100
35) Trichloroethene	9.09	95	100109	21.615	ug/L	99
36) Methylcyclohexane	9.34	83	170283	20.615	ug/L	99
40) 1,2-Dichloropropane	9.37	63	91878	21.639	ug/L	100
41) Bromodichloromethane	9.65	83	122359	21.571	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	146566	21.571	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	120082	48.246	ug/L	99
44) Toluene	10.39	91	417839	22.243	ug/L	98
45) trans-1,3-Dichloropropene	10.61	75	130122	22.006	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	70859	23.854	ug/L	96
47) Tetrachloroethene	10.86	164	82387	22.441	ug/L	94
49) 2-Hexanone	10.97	43	89288	53.147	ug/L	99
50) Dibromochloromethane	11.13	129	83717	23.196	ug/L	97
51) 1,2-Dibromoethane	11.24	107	68557	24.040	ug/L	96
52) Chlorobenzene	11.66	112	266481	22.616	ug/L	98
53) Ethylbenzene	11.73	91	481069	22.303	ug/L	100
54) m,p-Xylene	11.84	106	182913	22.599	ug/L	98
55) o-xylene	12.17	106	172399	22.439	ug/L	93
56) Styrene	12.18	104	300397	22.883	ug/L	98
57) Isopropylbenzene	12.46	105	481280	22.488	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	88275	25.668	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	66795	25.615	ug/L	99
62) Bromoform	12.35	173	47287	21.652	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	214770	22.391	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	212468	22.607	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	193280	23.188	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	14160	22.394	ug/L	97
67) 1,3,5-Trichlorobenzene	14.63	180	154633	23.286	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	129985	24.304	ug/L	97
69) Naphthalene	15.37	128	238612	24.570	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	111728	24.555	ug/L	97

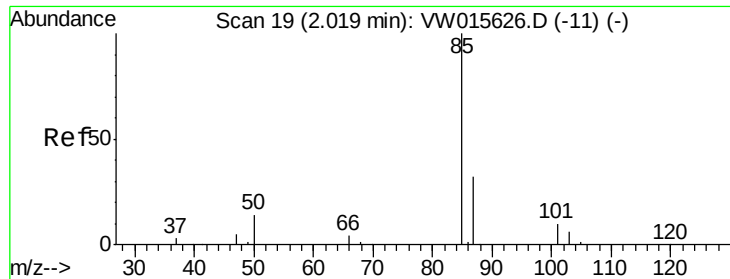
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.660 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.01 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

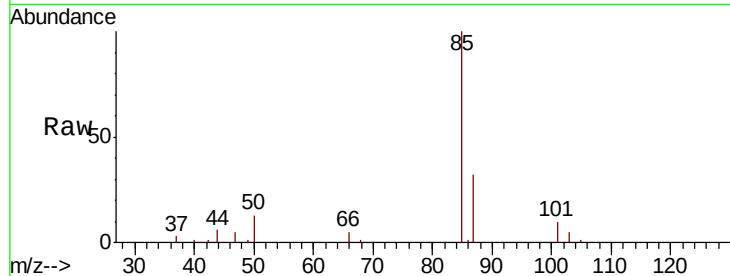
VSTD02513

Tot Ion: 85 Resp: 62812

Ion Ratio Lower Upper

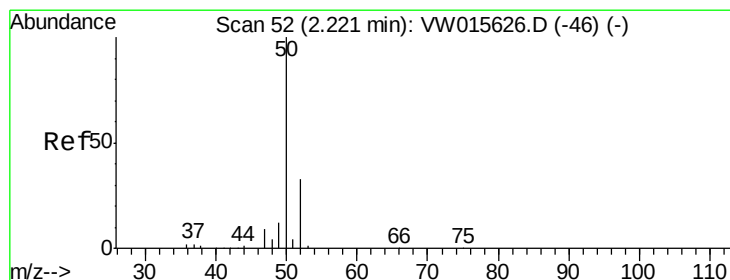
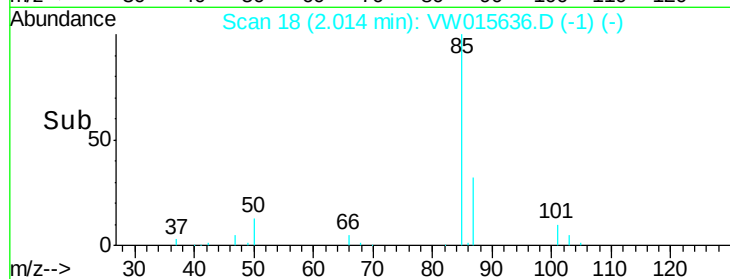
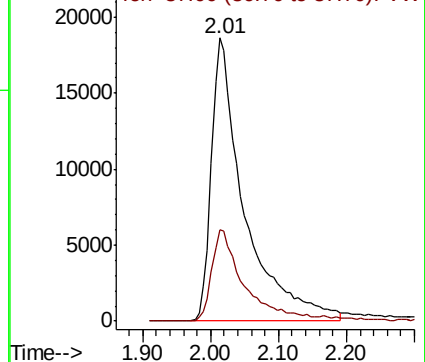
85 100

87 31.2 21.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 18.294 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.00 min

Lab File: VW015636.D

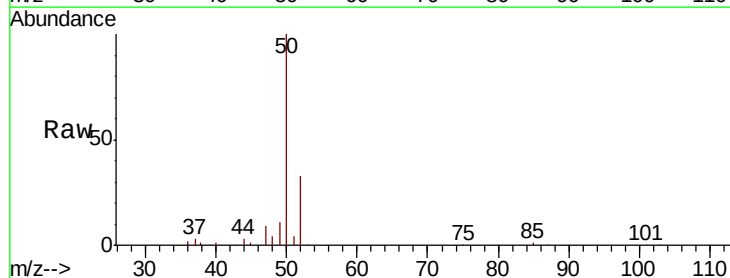
Acq: 18 Jun 2020 15:24

Tgt Ion: 50 Resp: 58401

Ion Ratio Lower Upper

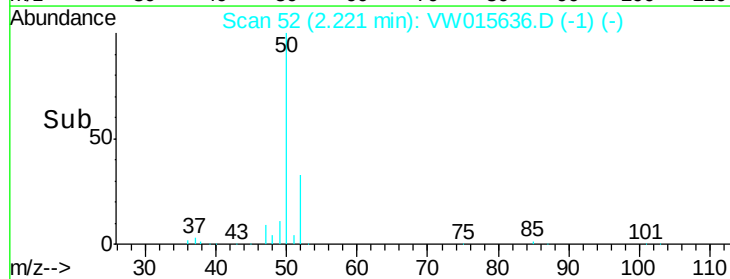
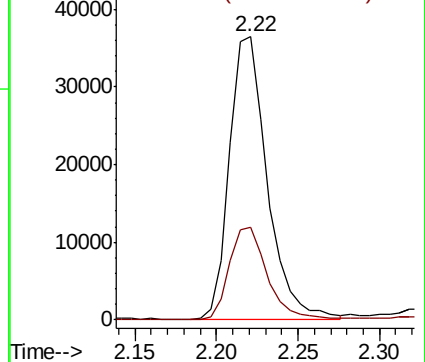
50 100

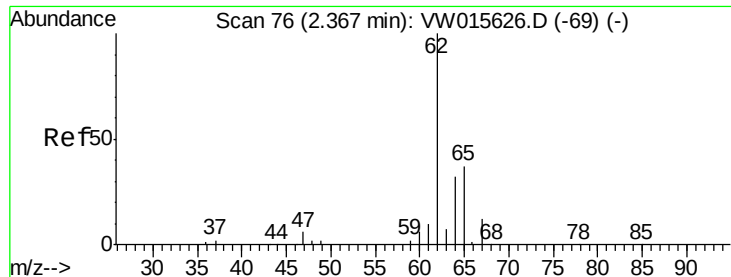
52 32.9 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 21.621 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

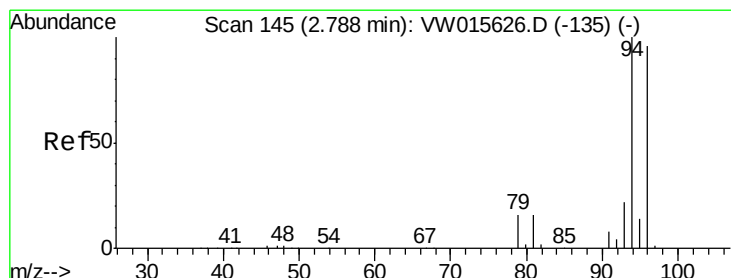
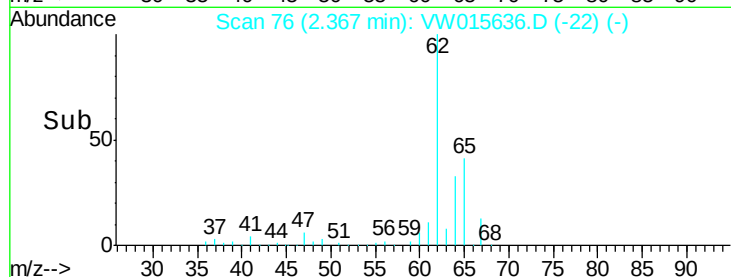
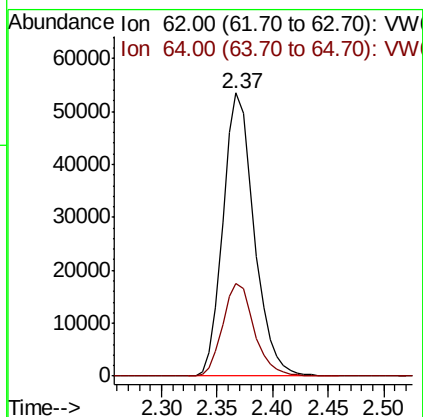
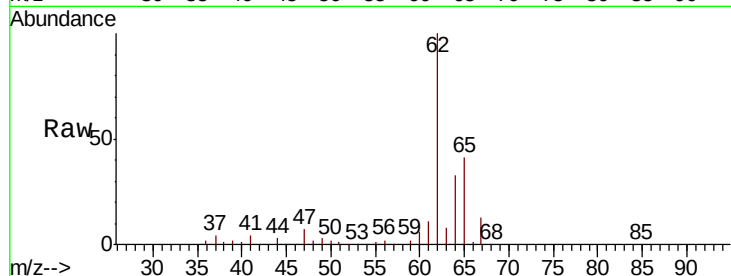
VSTD02513

Tot Ion: 62 Resp: 103798

Ion Ratio Lower Upper

62 100

64 32.8 22.6 42.0



#6

Bromomethane

Concen: 21.541 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW015636.D

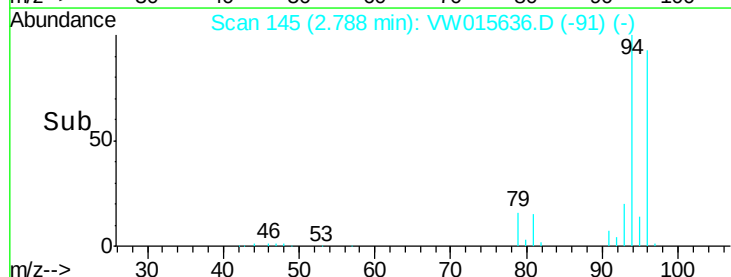
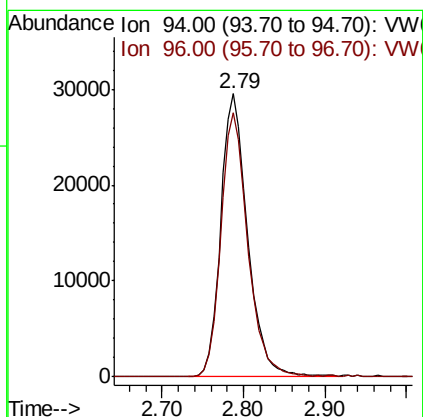
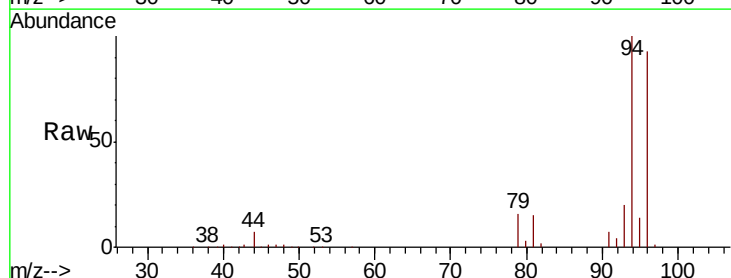
Acq: 18 Jun 2020 15:24

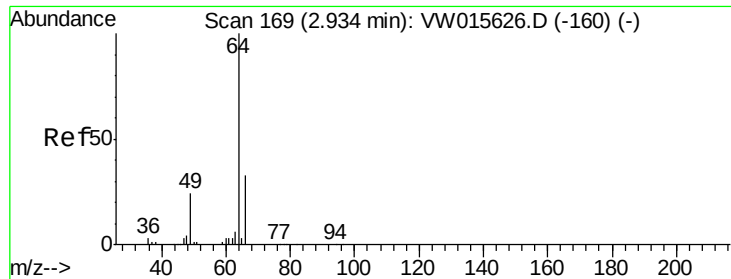
Tgt Ion: 94 Resp: 67214

Ion Ratio Lower Upper

94 100

96 93.5 9.3 177.5

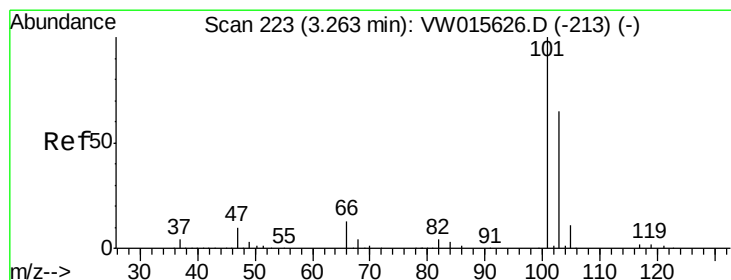
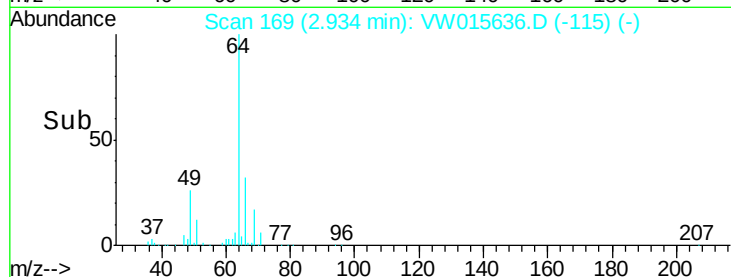
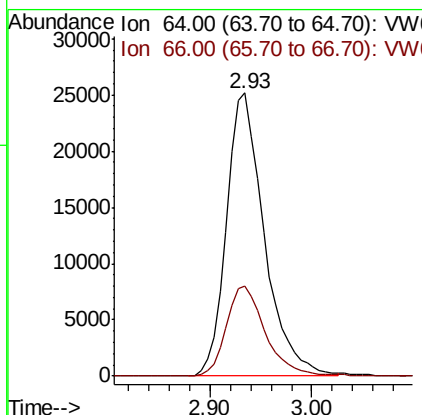
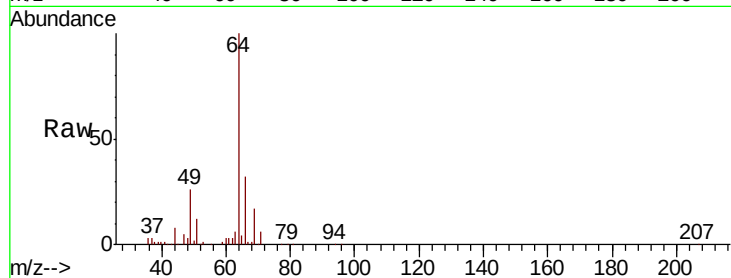




#8
Chloroethane
Concen: 22.138 ug/L
RT: 2.93 min Scan# 169
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

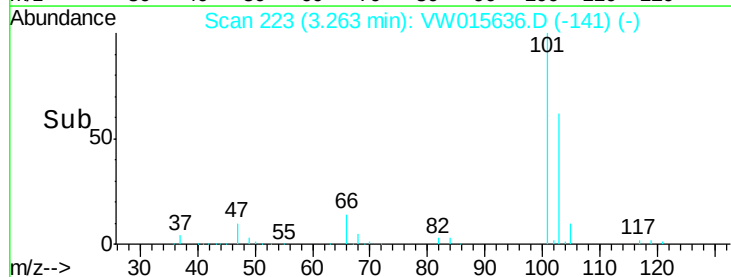
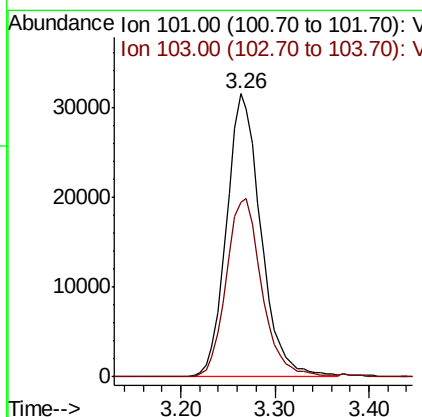
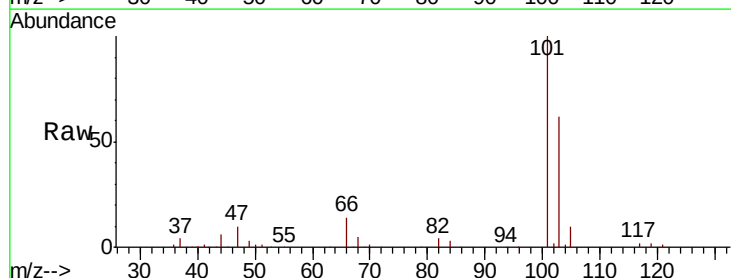
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

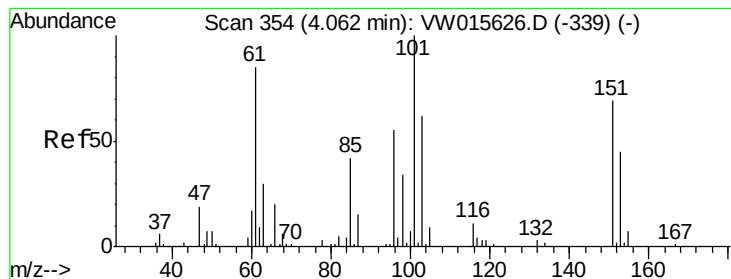
Tot Ion: 64 Resp: 64694
Ion Ratio Lower Upper
64 100
66 32.0 22.0 40.8



#9
Trichlorofluoromethane
Concen: 23.431 ug/L
RT: 3.26 min Scan# 223
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

Tgt Ion: 101 Resp: 80052
Ion Ratio Lower Upper
101 100
103 64.8 46.6 86.6





#11

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

Concen: 21.929 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

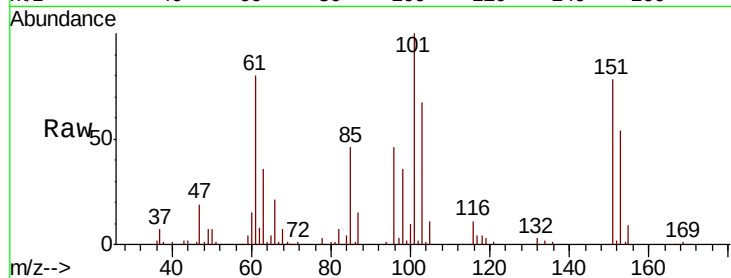
Tot Ion:101 Resp: 88857

Ion Ratio Lower Upper

101 100

85 45.0 35.1 52.7

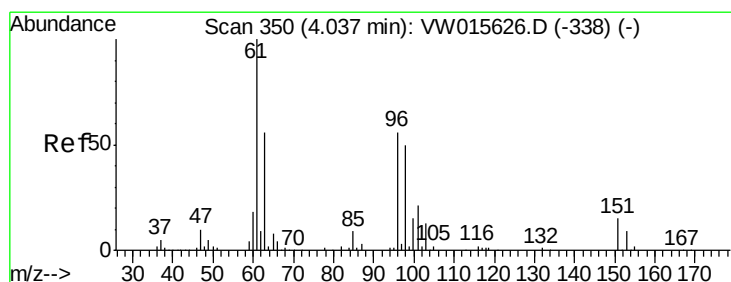
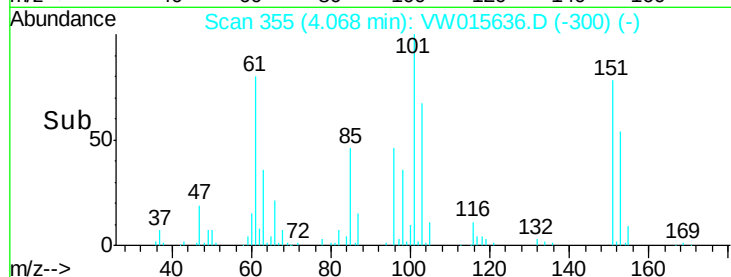
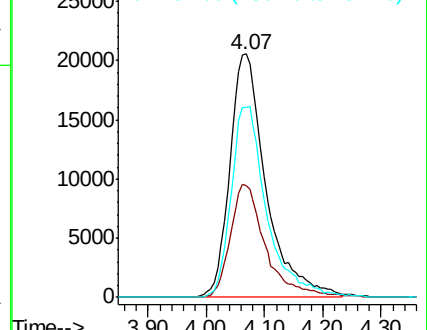
151 76.0 58.6 87.8



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: 20.937 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

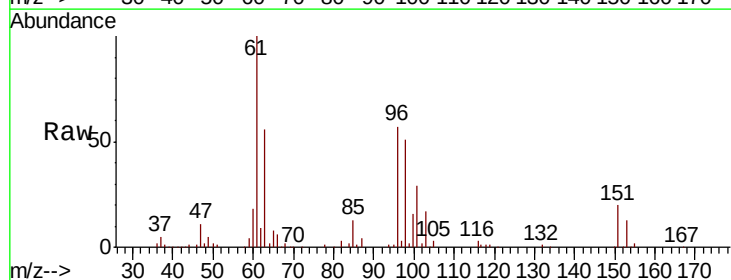
Tgt Ion: 96 Resp: 81947

Ion Ratio Lower Upper

96 100

61 176.7 127.7 237.1

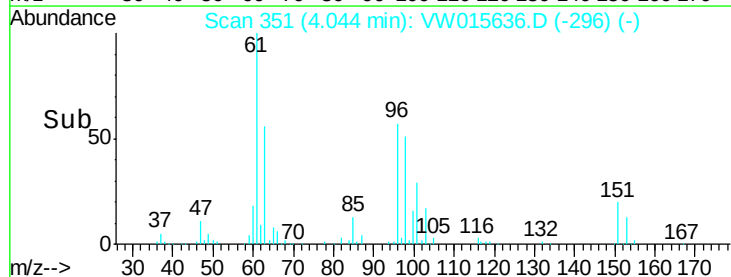
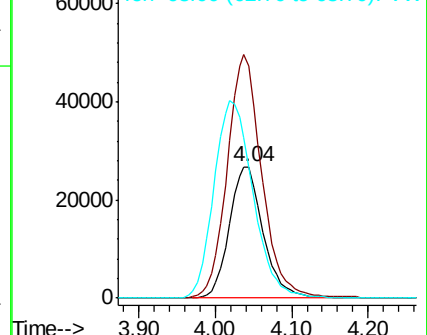
63 99.6 92.3 171.5

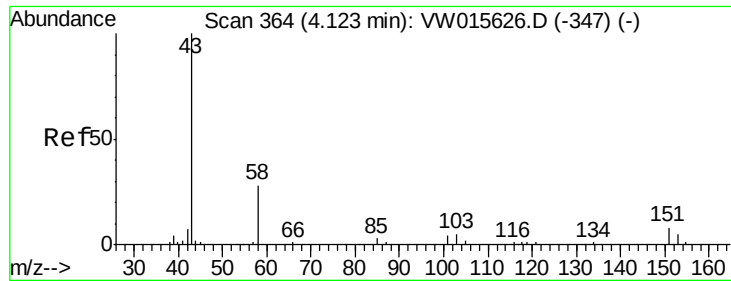


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 67.165 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

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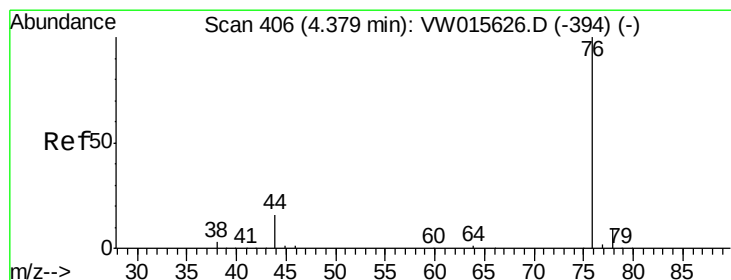
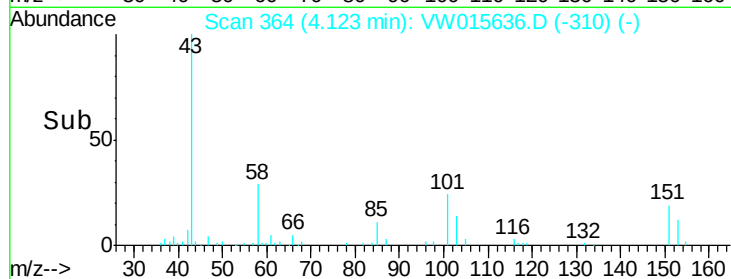
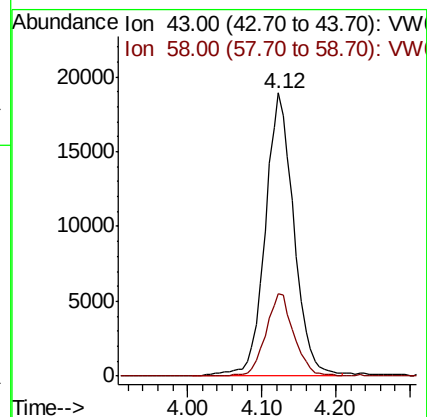
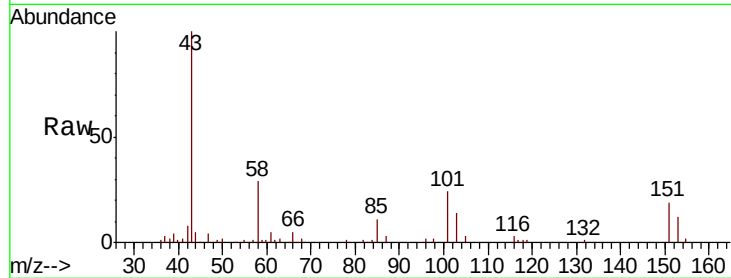
VSTD02513

Tot Ion: 43 Resp: 50994

Ion Ratio Lower Upper

43 100

58 28.5 0.0 56.8



#14

Carbon disulfide

Concen: 18.042 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW015636.D

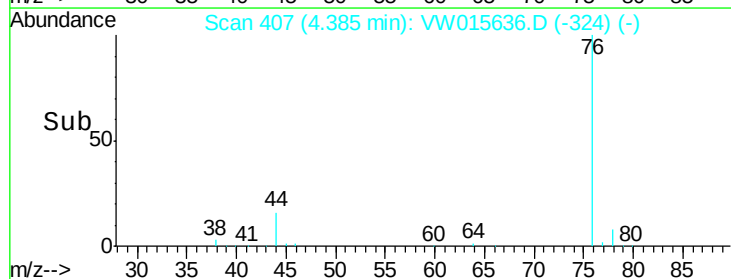
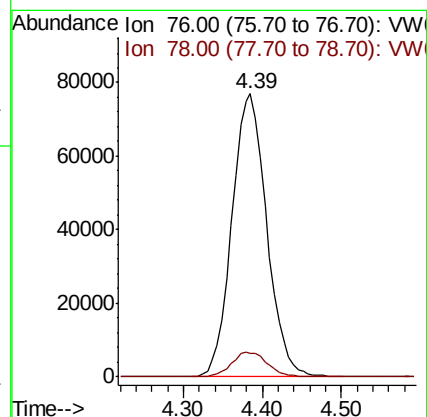
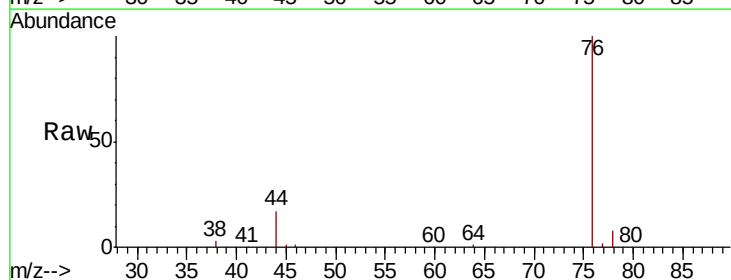
Acq: 18 Jun 2020 15:24

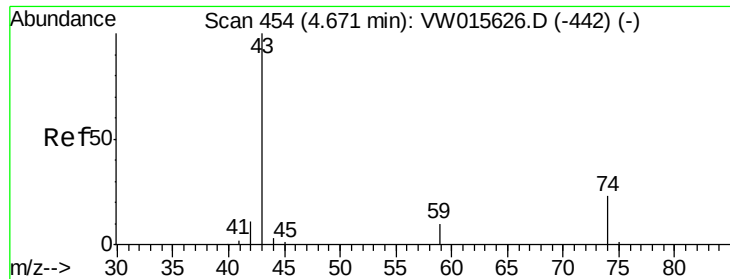
Tgt Ion: 76 Resp: 235580

Ion Ratio Lower Upper

76 100

78 8.5 7.3 10.9

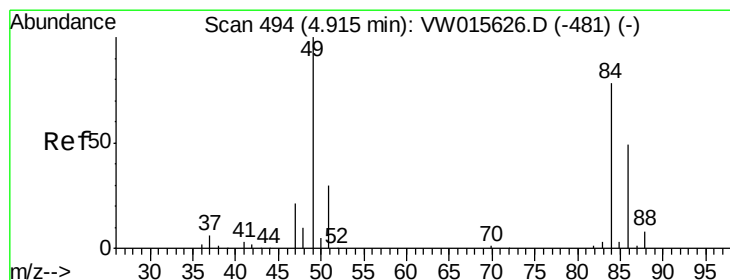
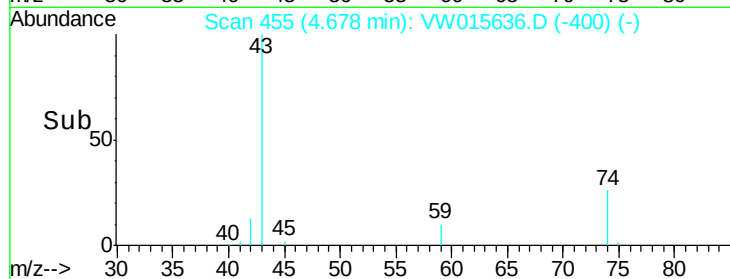
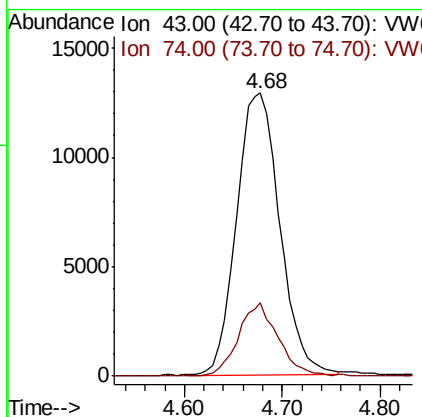
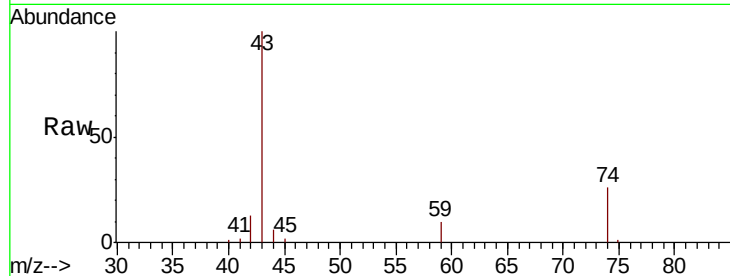




#15
Methyl Acetate
Concen: 24.210 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

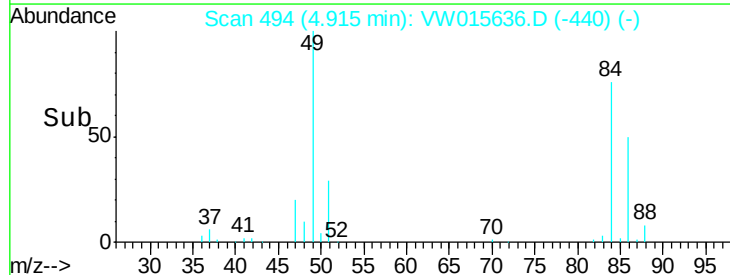
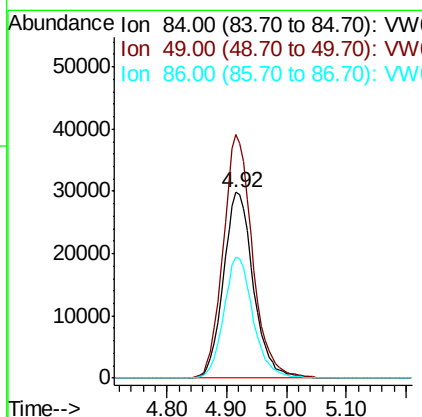
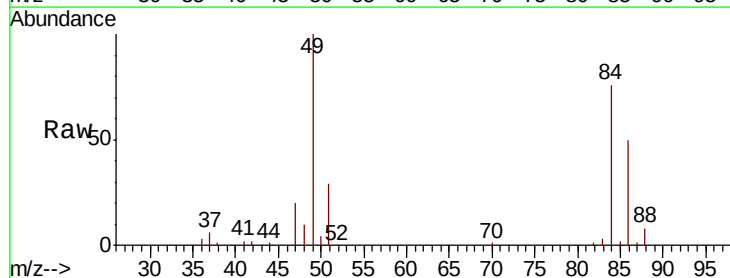
Instrument :
MSVOA_W
ClientSampled :
VSTD02513

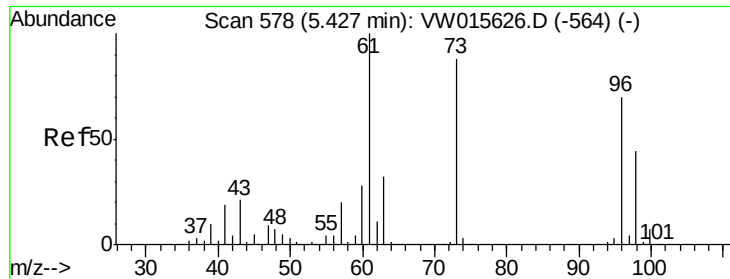
Tot Ion: 43 Resp: 39767
Ion Ratio Lower Upper
43 100
74 23.6 18.2 27.2



#16
Methylene chloride
Concen: 25.747 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

Tgt Ion: 84 Resp: 103725
Ion Ratio Lower Upper
84 100
49 131.3 93.0 172.8
86 65.4 44.7 83.1

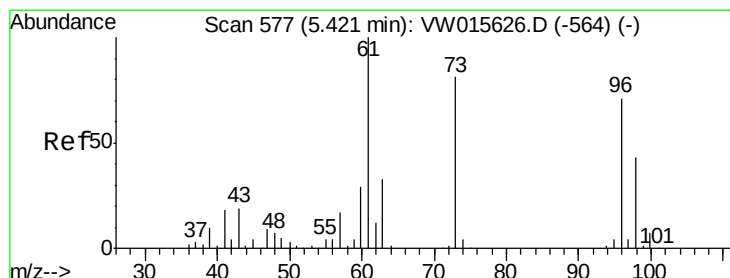
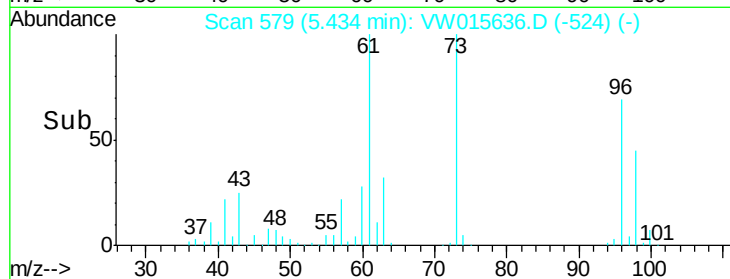
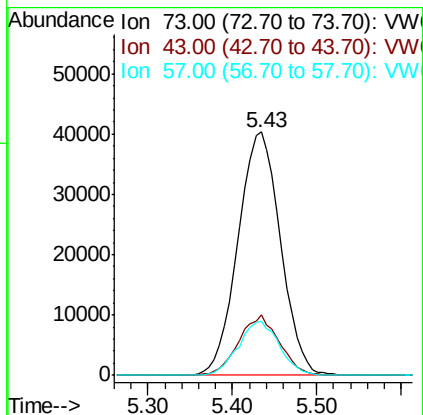
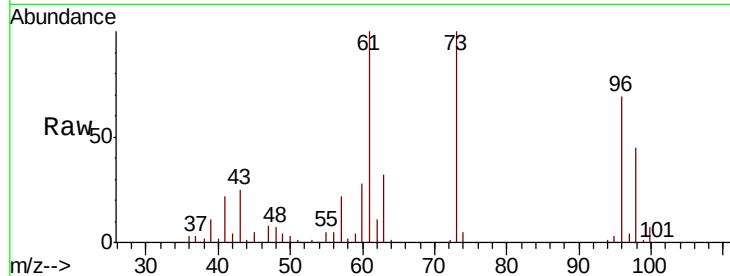




#17
Methvl tert-butvl Ether
Concen: 22.256 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

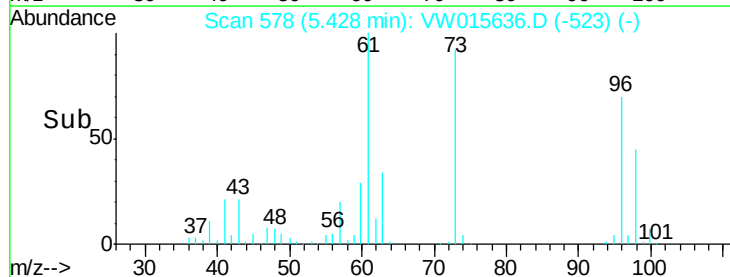
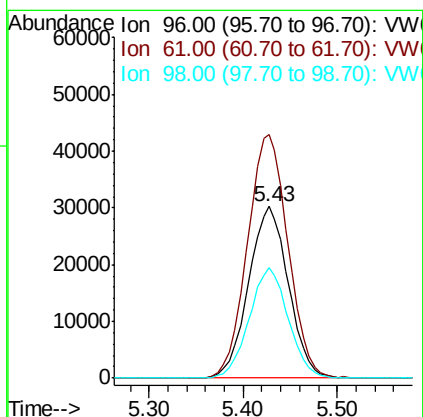
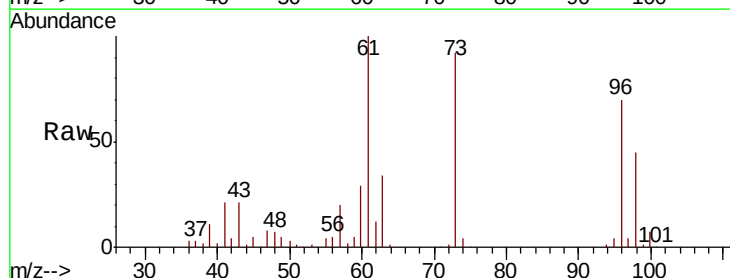
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

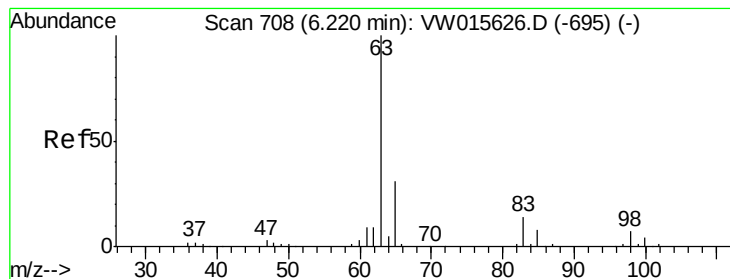
Tot Ion: 73 Resp: 138238
Ion Ratio Lower Upper
73 100
43 23.8 19.6 29.4
57 21.4 17.7 26.5



#18
trans-1,2-Dichloroethene
Concen: 21.317 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

Tgt Ion: 96 Resp: 89416
Ion Ratio Lower Upper
96 100
61 141.8 101.9 189.3
98 64.3 44.9 83.5





#19

1,1-Dichloroethane

Concen: 21.956 ug/L

RT: 6.22 min Scan# 708

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampled :

VSTD02513

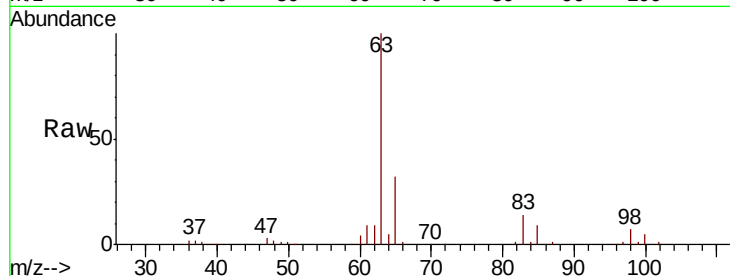
Tot Ion: 63 Resp: 165654

Ion Ratio Lower Upper

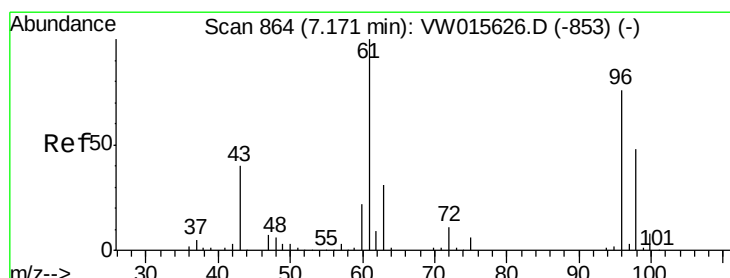
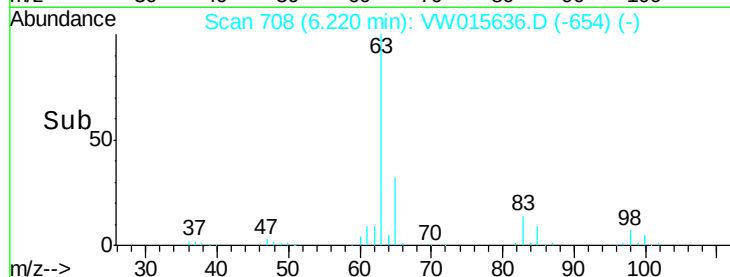
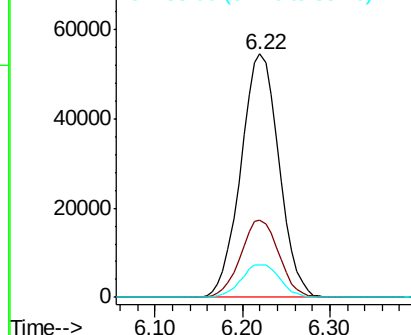
63 100

65 31.9 22.1 41.1

83 13.6 9.7 17.9



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: 51.911 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015636.D

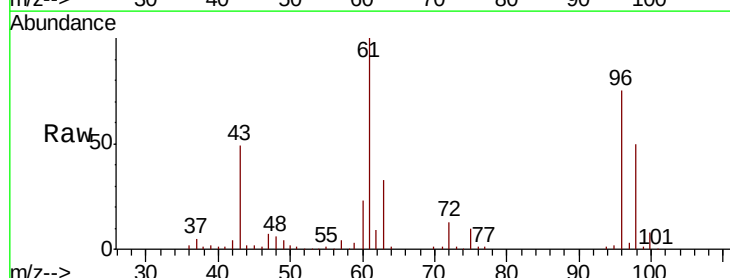
Acq: 18 Jun 2020 15:24

Tgt Ion: 43 Resp: 60545

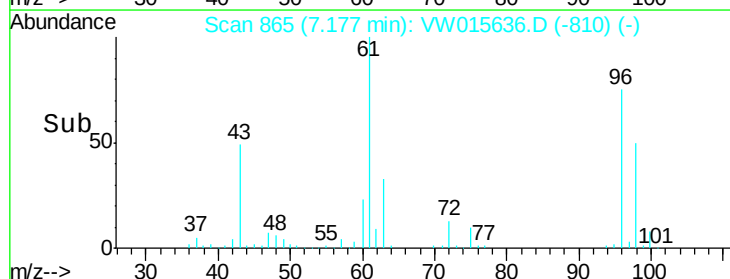
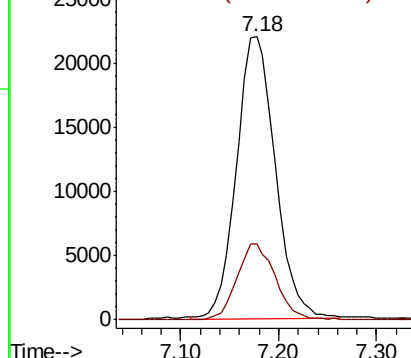
Ion Ratio Lower Upper

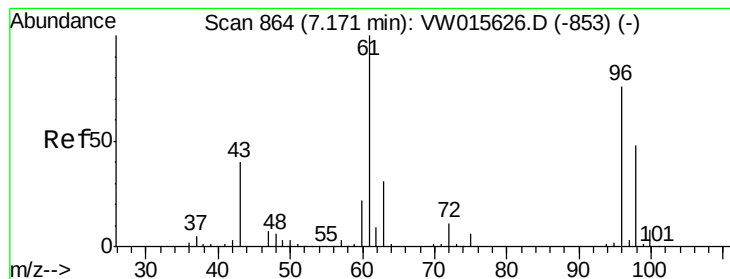
43 100

72 26.6 13.3 39.9



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



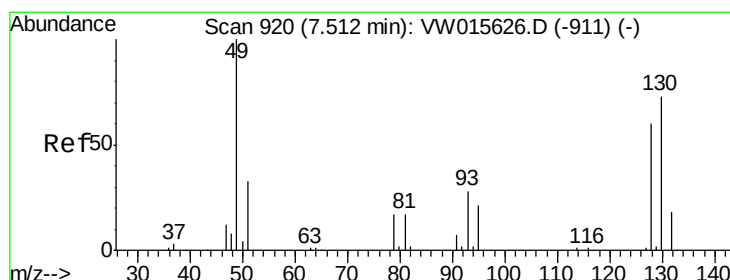
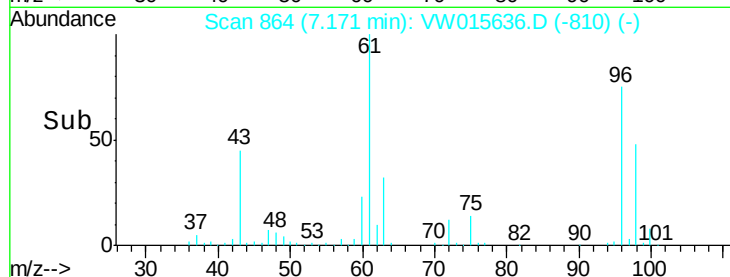
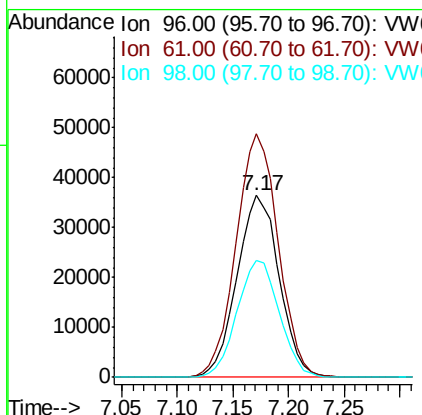
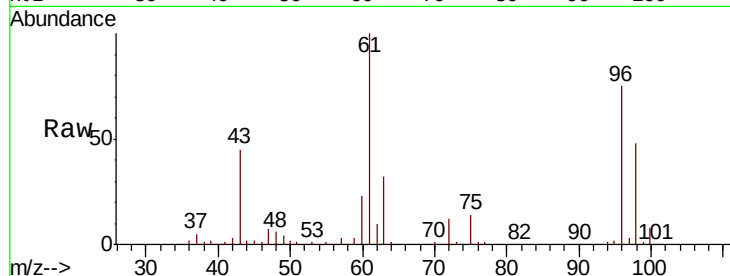


#22

cis-1,2-Dichloroethene
 Concen: 21.989 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

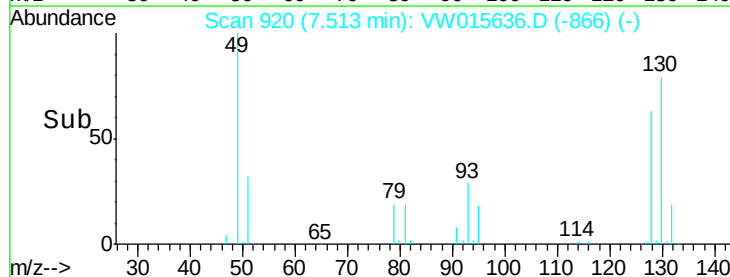
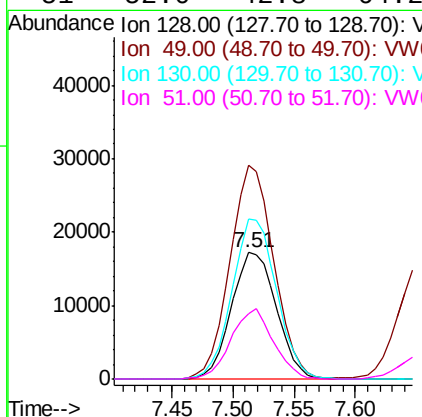
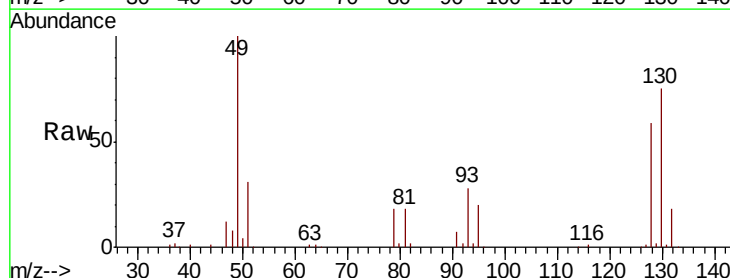
Tot Ion: 96 Resp: 96218
 Ion Ratio Lower Upper
 96 100
 61 134.1 93.7 173.9
 98 64.3 45.1 83.9

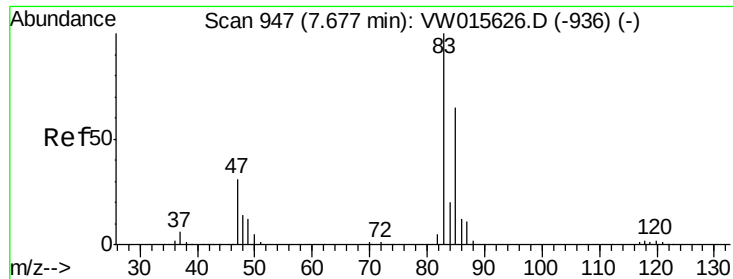


#23

Bromochloromethane
 Concen: 23.320 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Tgt Ion: 128 Resp: 44003
 Ion Ratio Lower Upper
 128 100
 49 168.6 118.1 219.3
 130 126.4 88.5 164.3
 51 52.0 42.8 64.2

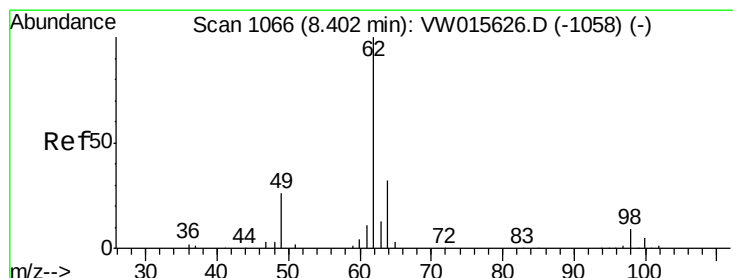
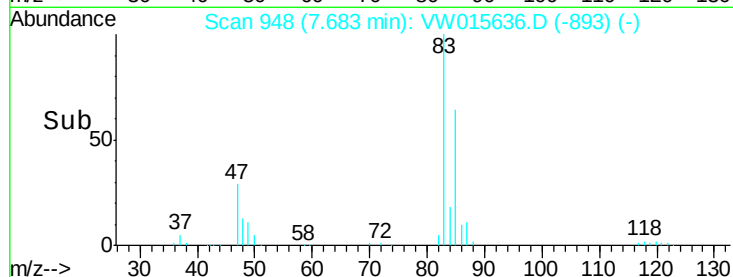
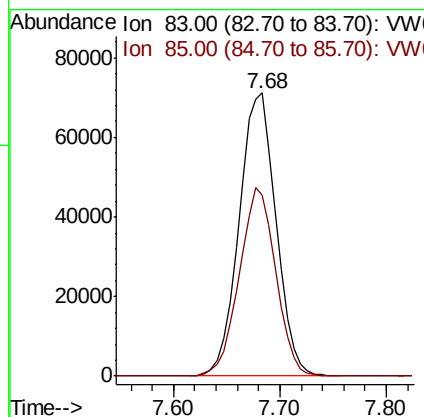
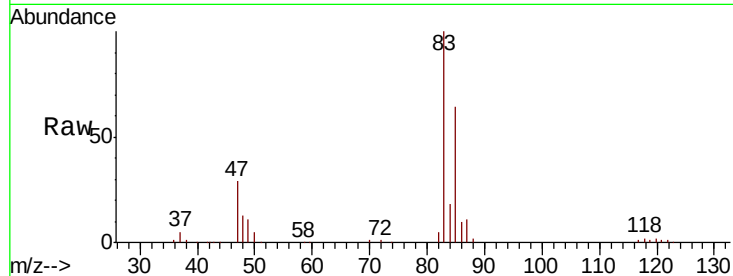




#25
Chloroform
Concen: 22.859 ug/L
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

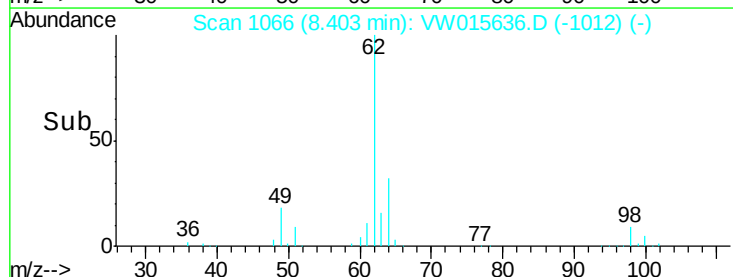
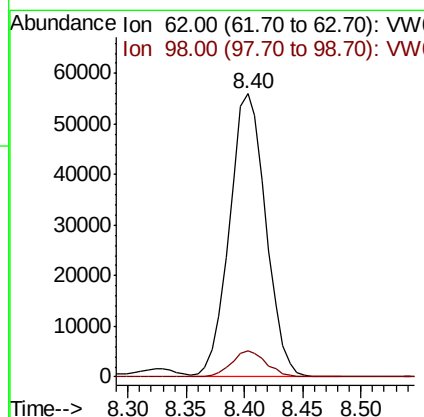
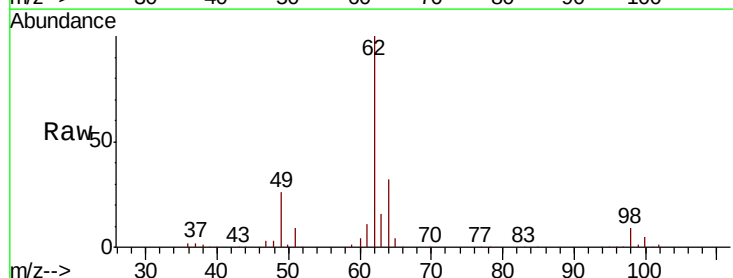
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

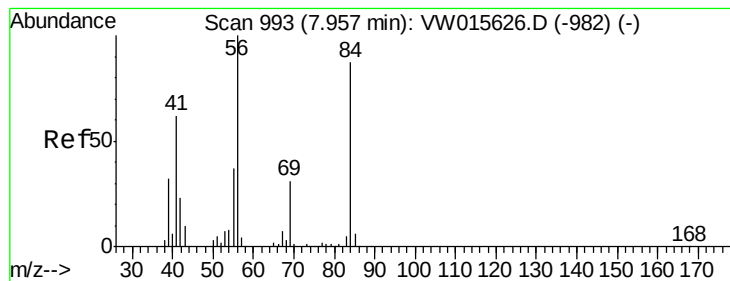
Tot Ion: 83 Resp: 173656
Ion Ratio Lower Upper
83 100
85 65.7 45.7 84.9



#27
1,2-Dichloroethane
Concen: 23.671 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

Tgt Ion: 62 Resp: 121654
Ion Ratio Lower Upper
62 100
98 9.0 7.0 10.4





#30

Cyclohexane

Concen: 19.566 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

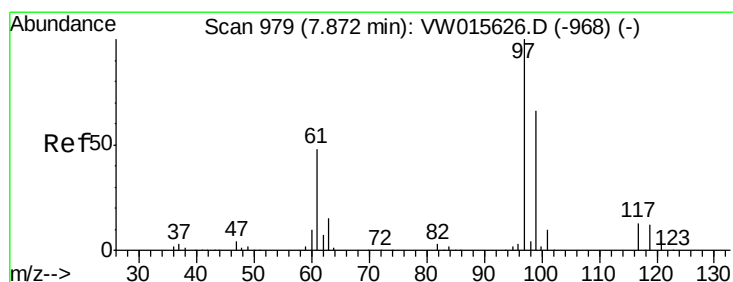
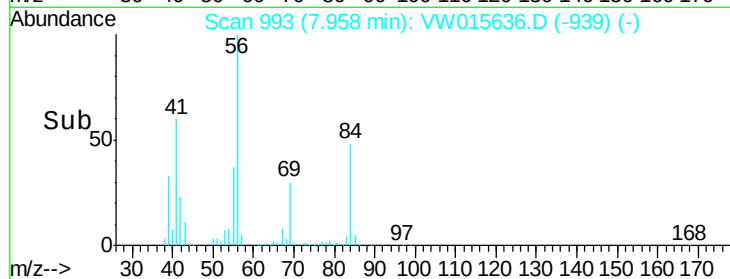
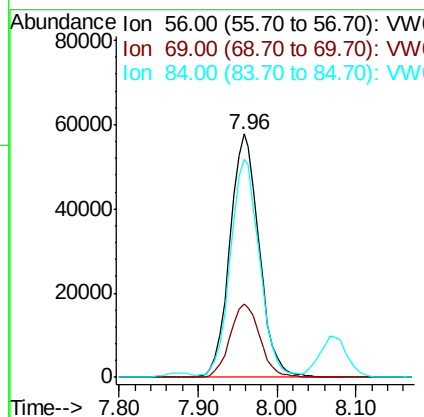
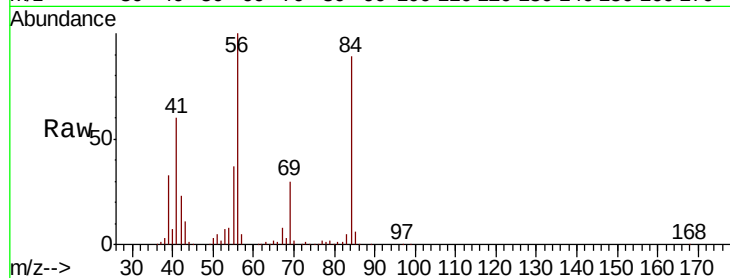
Tot Ion: 56 Resp: 149117

Ion Ratio Lower Upper

56 100

69 30.9 24.6 37.0

84 89.7 69.6 104.4



#31

1,1,1-Trichloroethane

Concen: 21.604 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.01 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

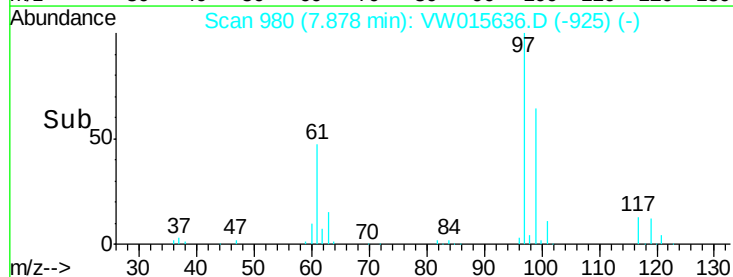
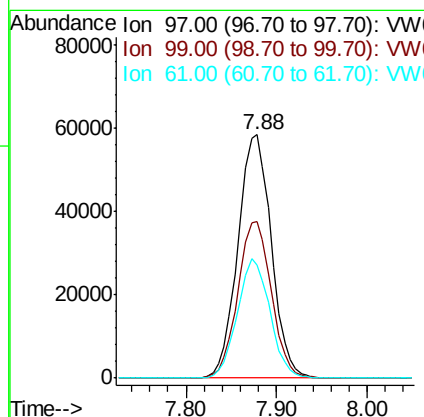
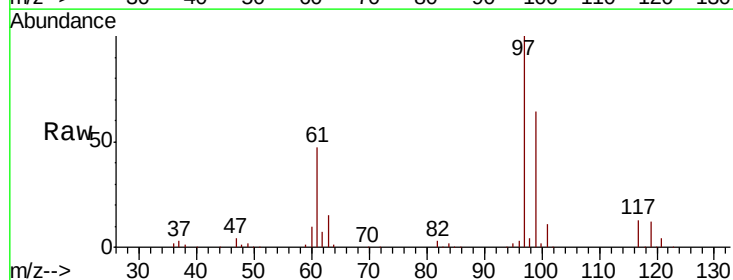
Tgt Ion: 97 Resp: 149018

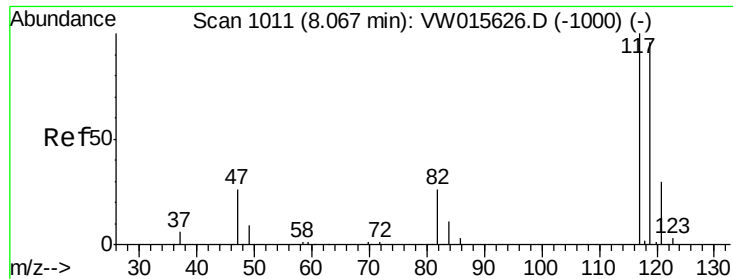
Ion Ratio Lower Upper

97 100

99 64.8 51.4 77.0

61 47.9 38.1 57.1





#32

Carbon tetrachloride

Concen: 21.614 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

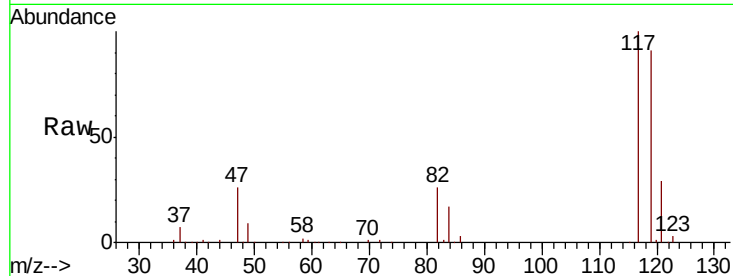
VSTD02513

Tot Ion:117 Resp: 136740

Ion Ratio Lower Upper

117 100

119 94.1 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

60000

50000

40000

30000

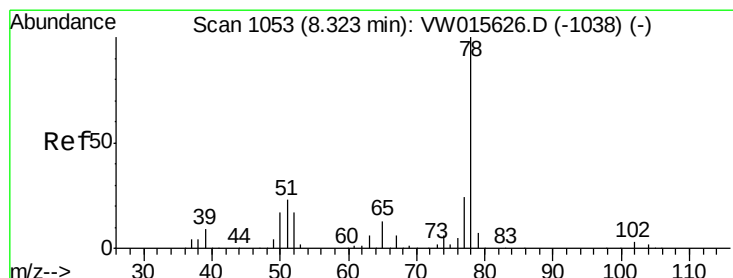
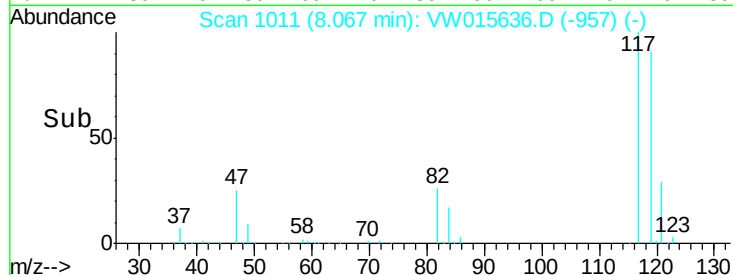
20000

10000

0

Time-->

8.00 8.10 8.20



#34

Benzene

Concen: 21.576 ug/L

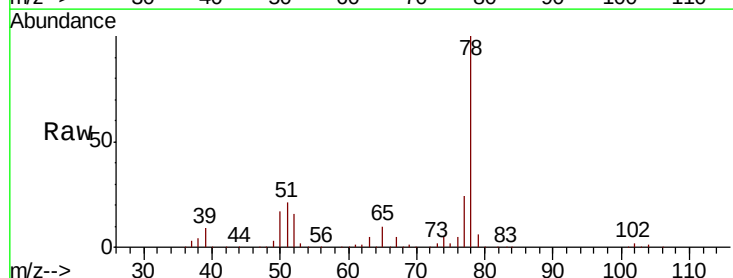
RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Tgt Ion: 78 Resp: 372020



Abundance Ion 78.00 (77.70 to 78.70): VW

8.33

150000

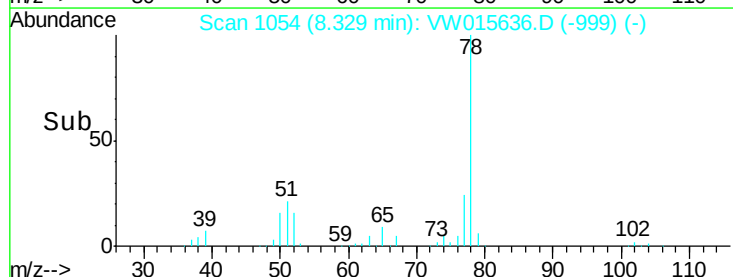
100000

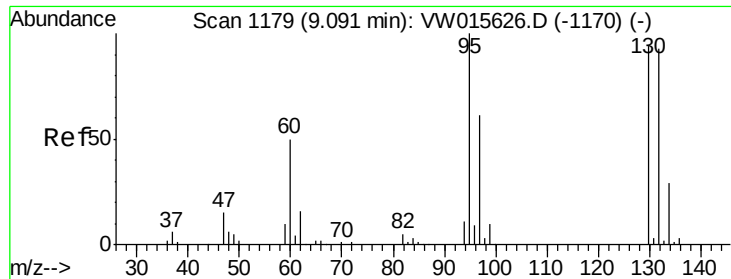
50000

0

Time-->

8.20 8.30 8.40

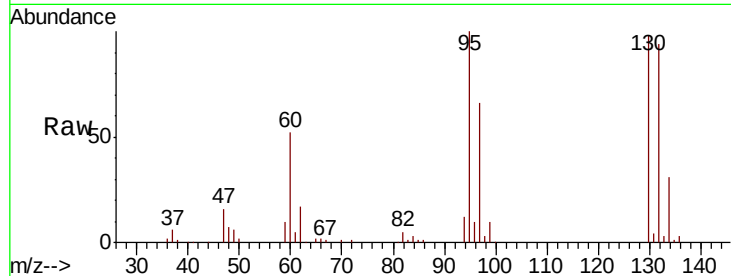




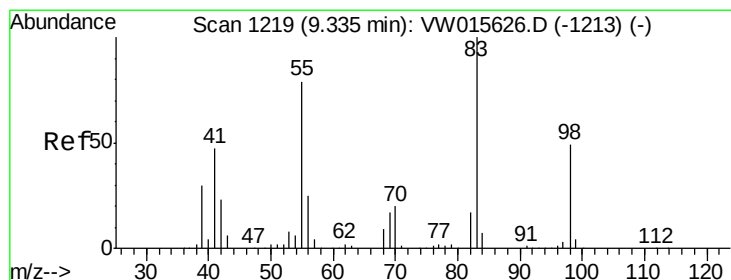
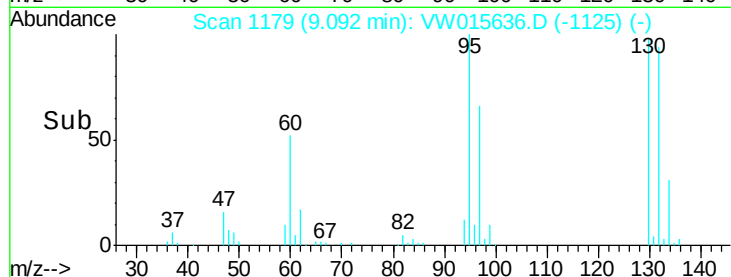
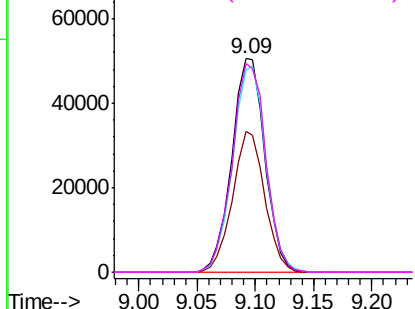
#35
 Trichloroethene
 Concen: 21.615 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

Tot Ion: 95 Resp: 100109
 Ion Ratio Lower Upper
 95 100
 97 64.1 45.4 84.2
 132 96.4 67.1 124.7
 130 99.3 69.4 128.8

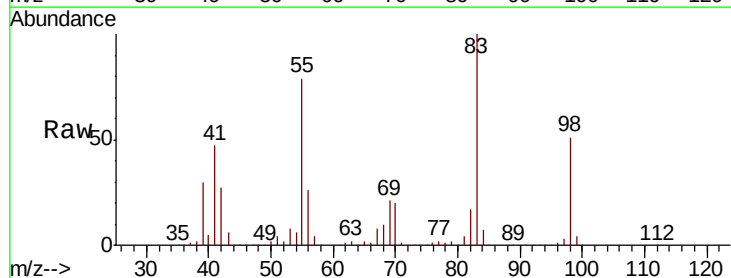


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

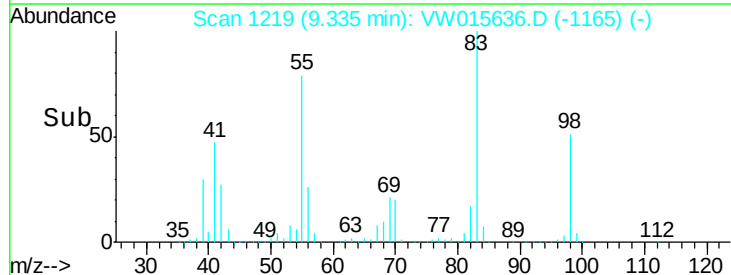
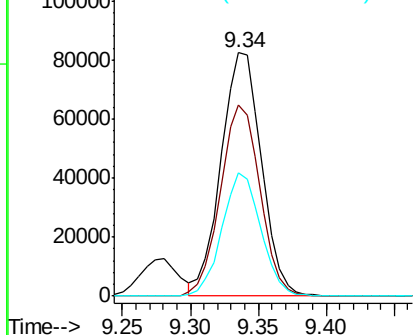


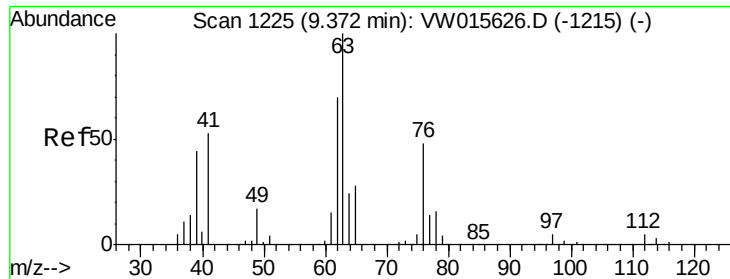
#36
 Methylcyclohexane
 Concen: 20.615 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Tgt Ion: 83 Resp: 170283
 Ion Ratio Lower Upper
 83 100
 55 77.5 62.8 94.2
 98 49.0 39.2 58.8



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





#40

1,2-Dichloropropane

Concen: 21.639 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

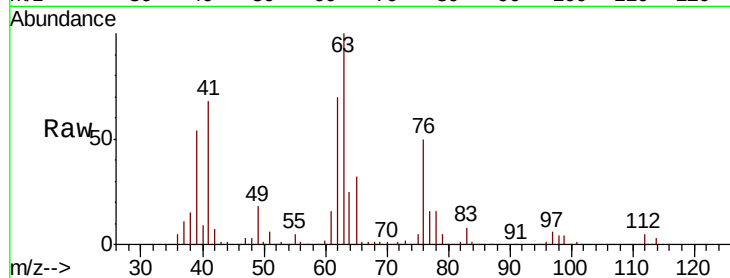
VSTD02513

Tot Ion: 63 Resp: 91878

Ion Ratio Lower Upper

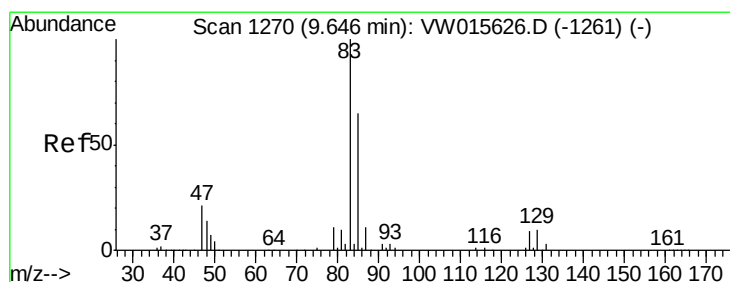
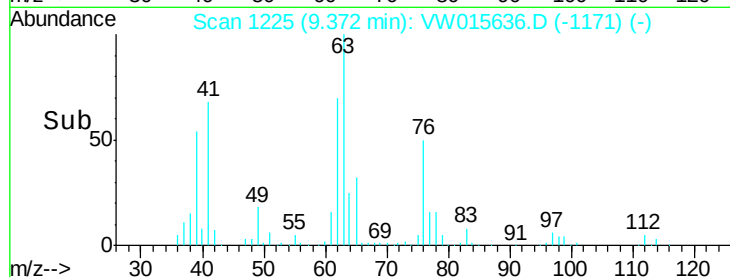
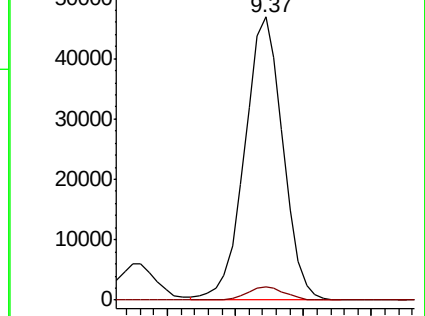
63 100

112 4.8 3.8 5.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 21.571 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

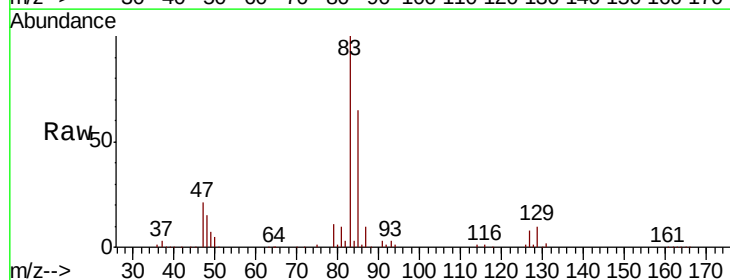
Tgt Ion: 83 Resp: 122359

Ion Ratio Lower Upper

83 100

85 64.7 44.8 83.2

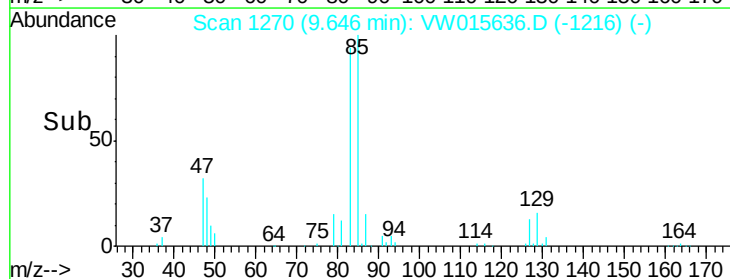
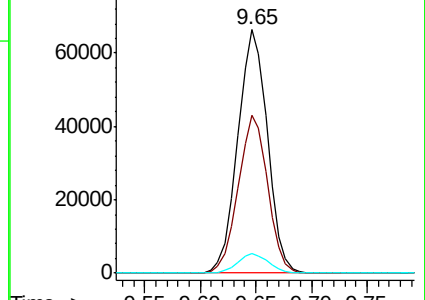
127 8.1 7.0 10.6

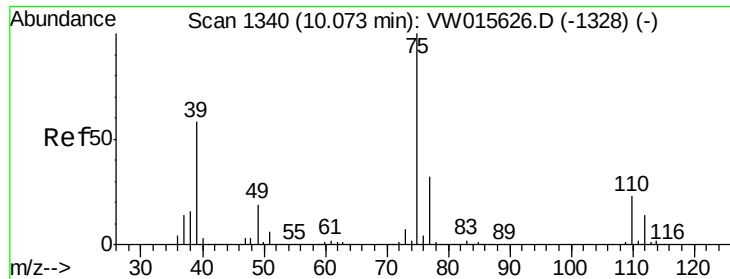


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 21.571 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

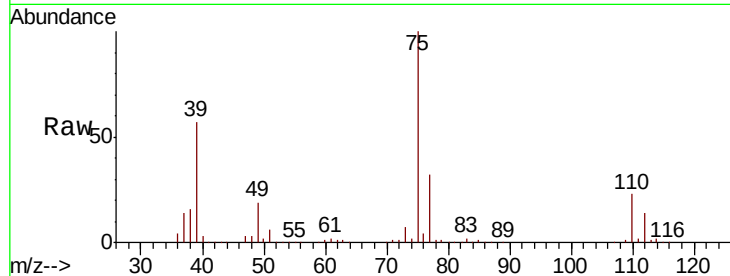
VSTD02513

Tot Ion: 75 Resp: 146566

Ion Ratio Lower Upper

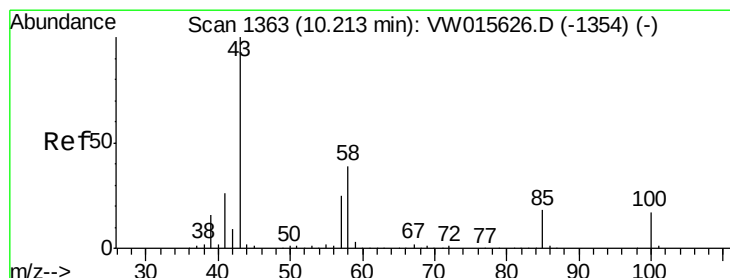
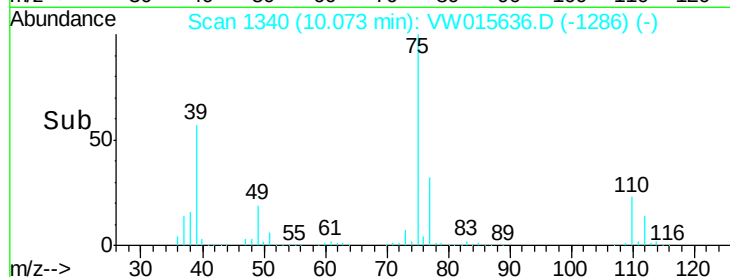
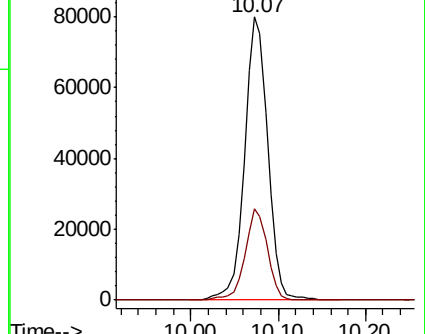
75 100

77 32.4 22.3 41.5



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: 48.246 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

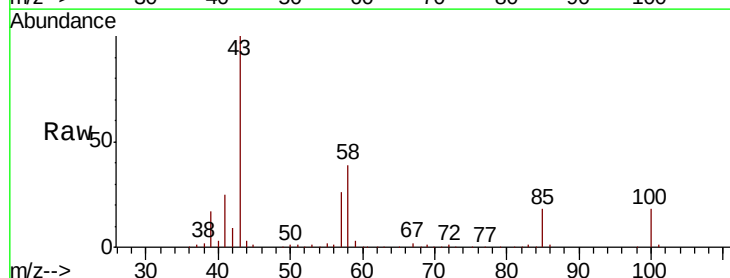
Tgt Ion: 43 Resp: 120082

Ion Ratio Lower Upper

43 100

58 38.7 30.6 46.0

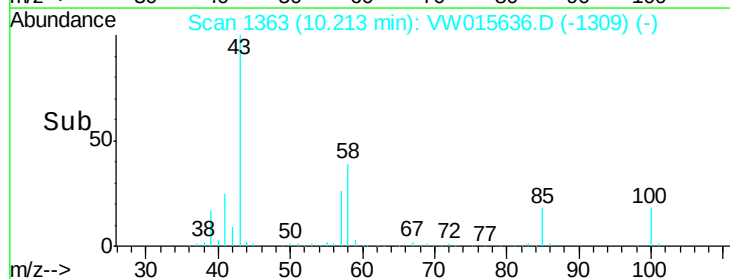
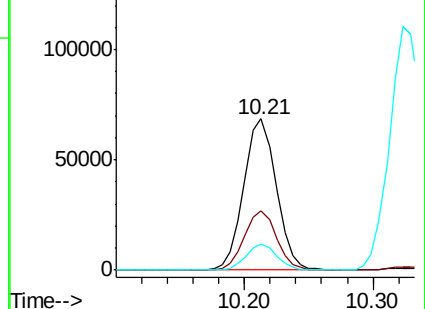
100 16.4 12.5 18.7

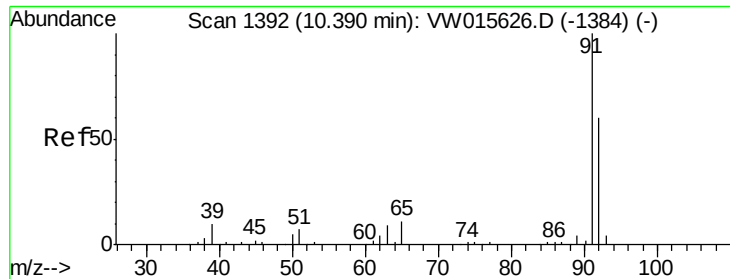


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW





#44

Toluene

Concen: 22.243 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

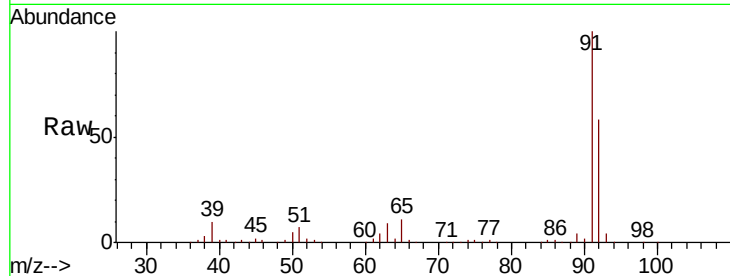
VSTD02513

Tot Ion: 91 Resp: 417839

Ion Ratio Lower Upper

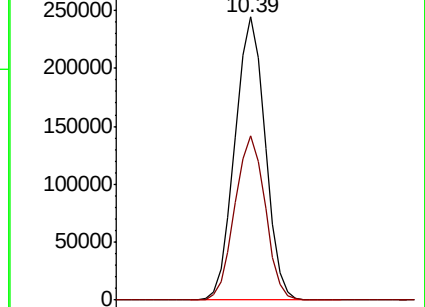
91 100

92 58.2 41.7 77.5

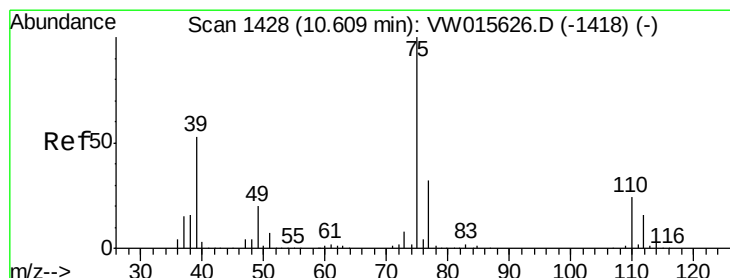
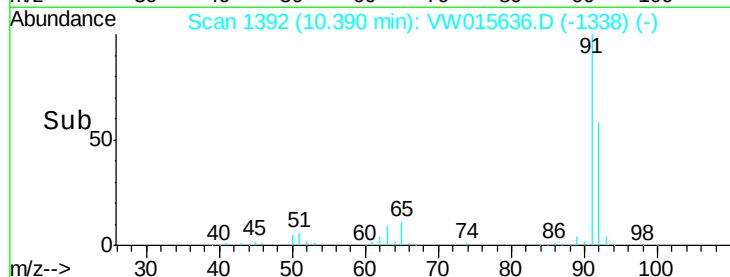


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW



Time-->



#45

trans-1,3-Dichloropropene

Concen: 22.006 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW015636.D

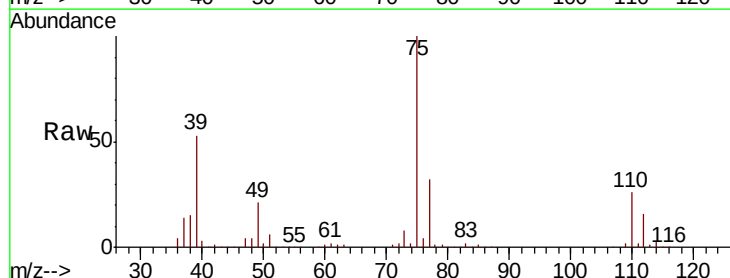
Acq: 18 Jun 2020 15:24

Tgt Ion: 75 Resp: 130122

Ion Ratio Lower Upper

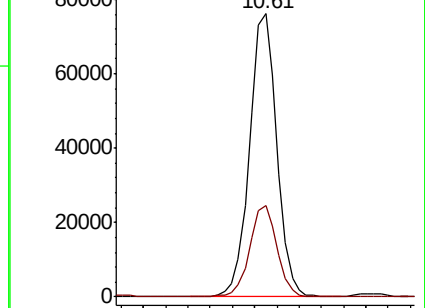
75 100

77 32.1 21.5 39.9

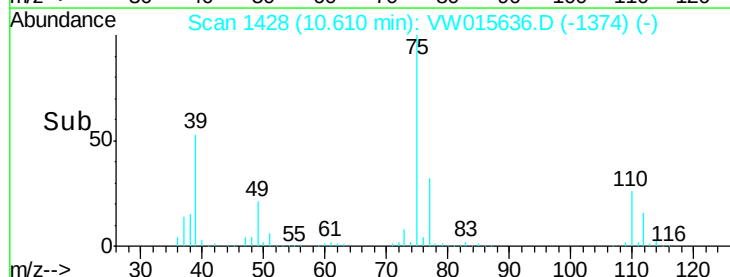


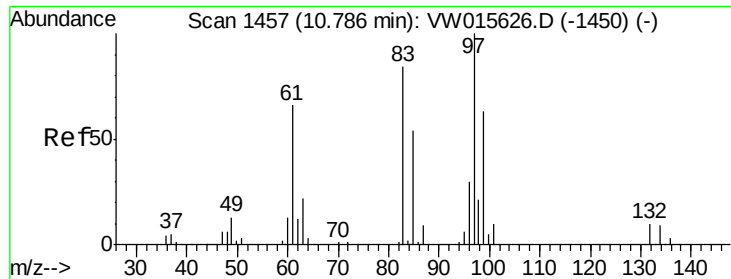
Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



Time-->

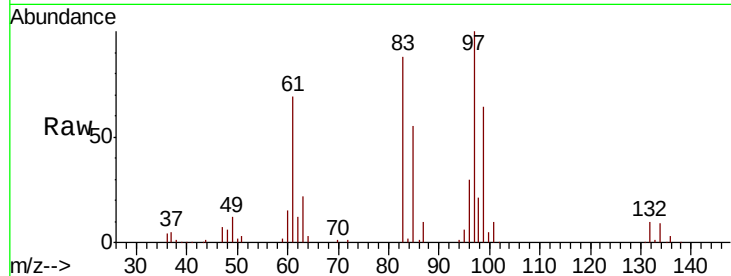




#46
 1,1,2-Trichloroethane
 Concen: 23.854 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

Tot Ion:	97	Resp:	70859
Ion	Ratio	Lower	Upper
97	100		
83	88.4	58.2	108.2
85	55.1	37.4	69.4
99	64.3	43.7	81.1



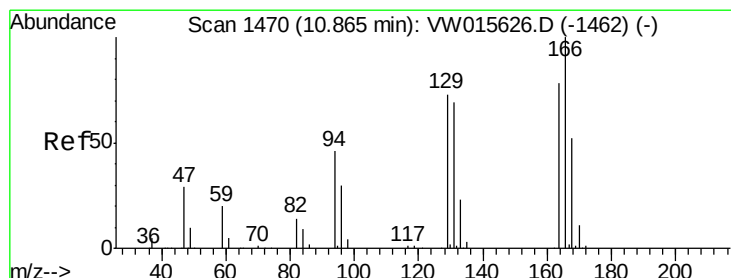
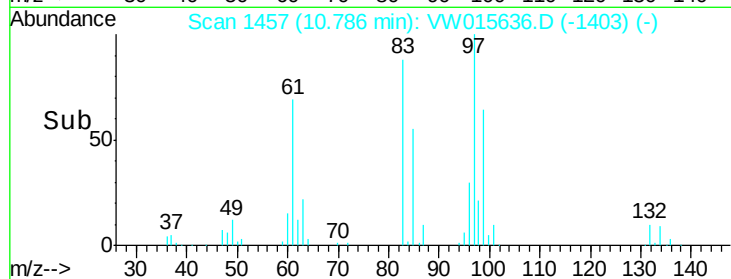
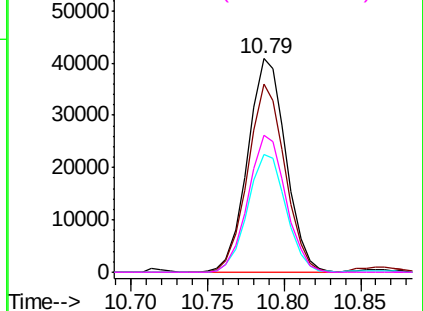
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

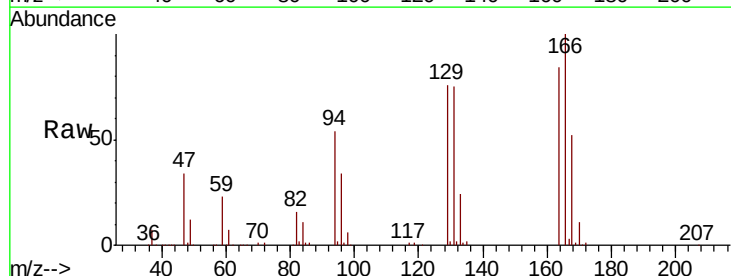
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47
 Tetrachloroethene
 Concen: 22.441 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.01 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Tgt Ion:	164	Resp:	82387
Ion	Ratio	Lower	Upper
164	100		
129	90.2	66.3	123.1
131	89.4	65.1	120.9
166	118.8	90.8	168.6



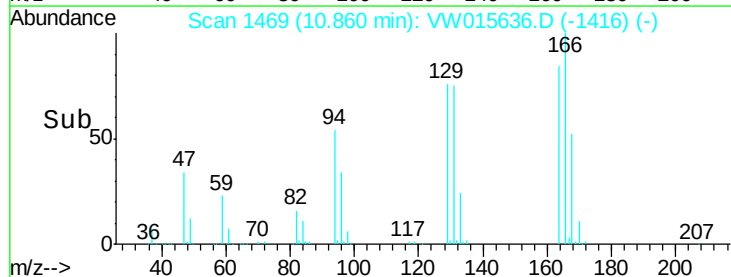
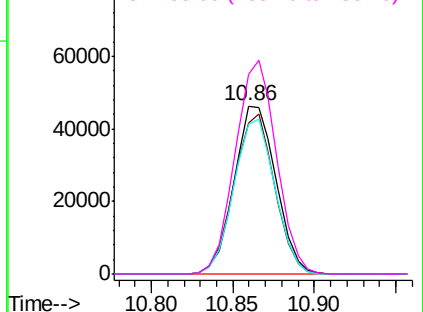
Abundance

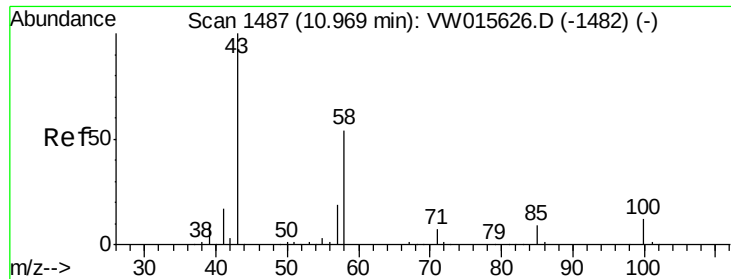
Ion 164.00 (163.70 to 164.70): V

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

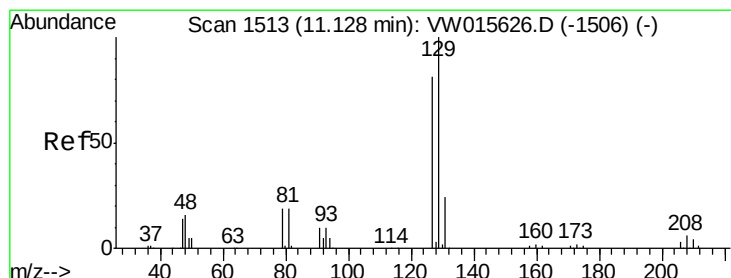
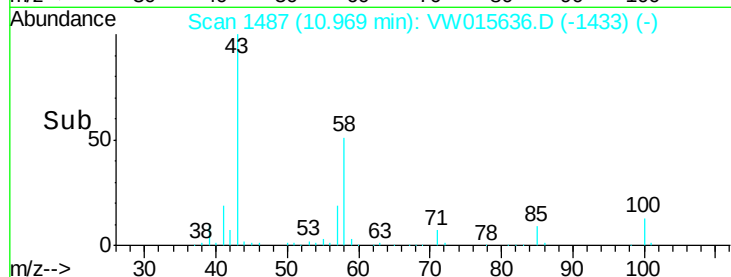
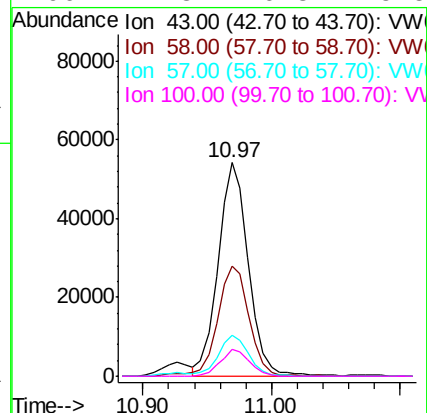
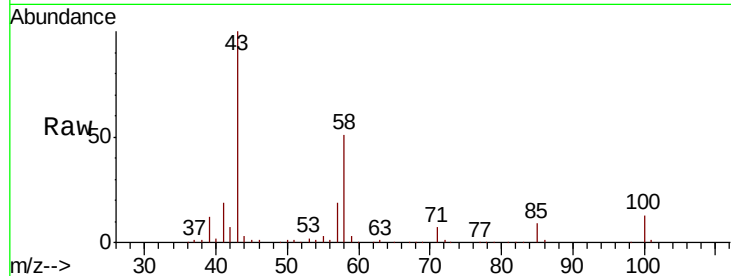




#49
2-Hexanone
Concen: 53.147 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

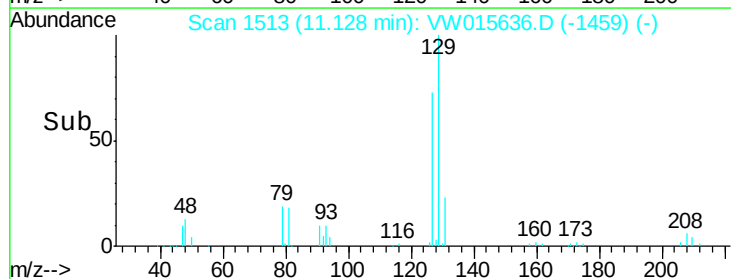
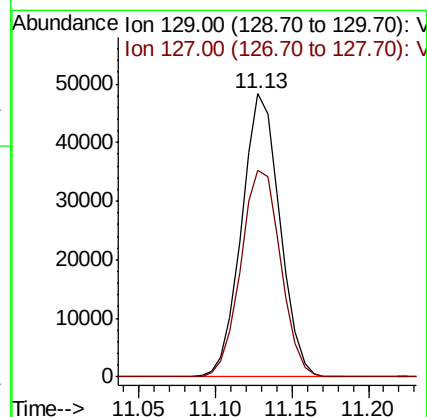
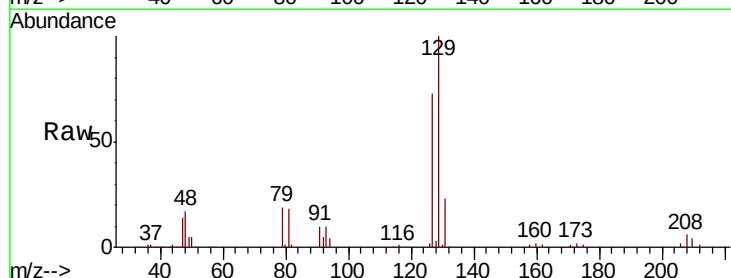
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

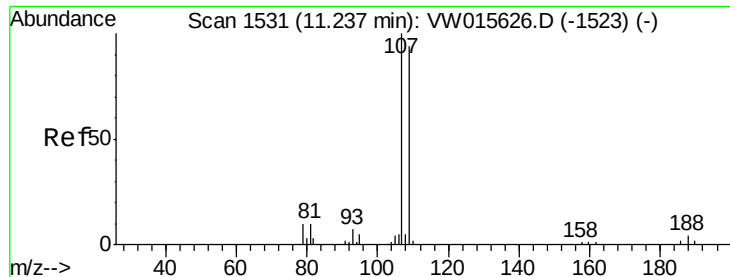
Tot Ion: 43 Resp: 89288
Ion Ratio Lower Upper
43 100
58 52.9 42.6 64.0
57 19.2 15.5 23.3
100 12.3 10.3 15.5



#50
Dibromochloromethane
Concen: 23.196 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

Tgt Ion: 129 Resp: 83717
Ion Ratio Lower Upper
129 100
127 73.1 53.0 98.4

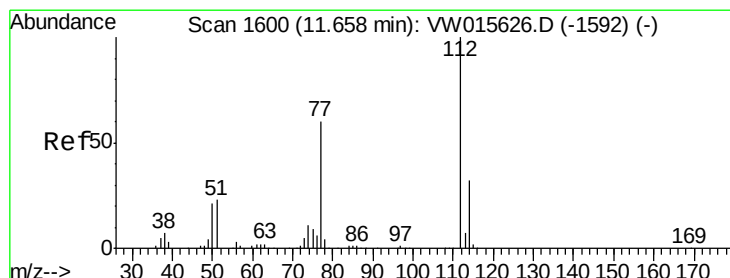
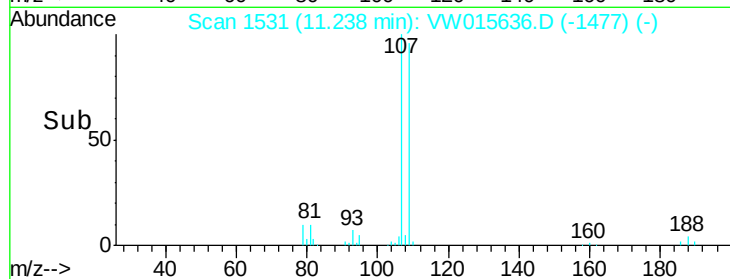
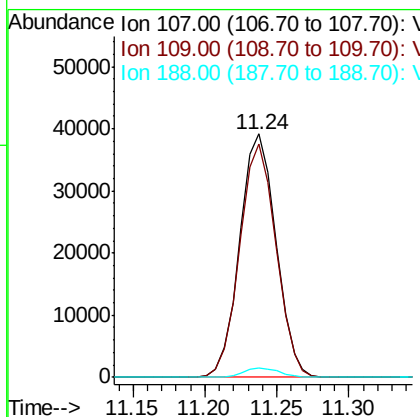
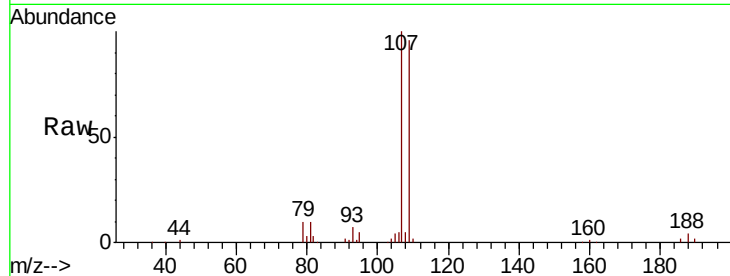




#51
1,2-Dibromoethane
Concen: 24.040 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

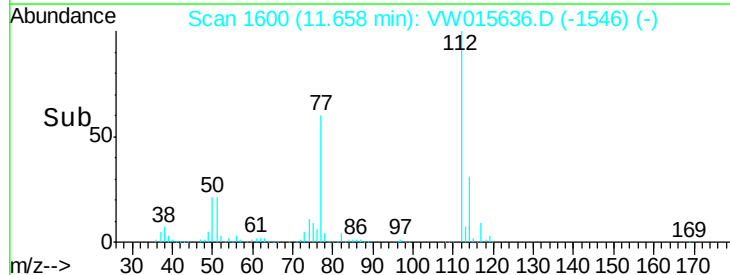
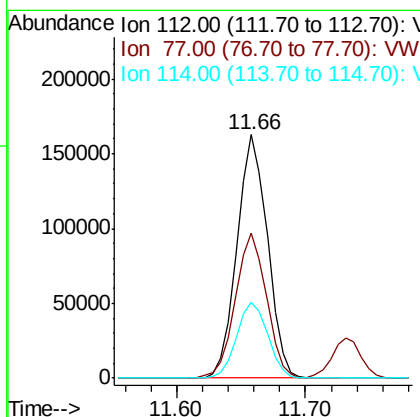
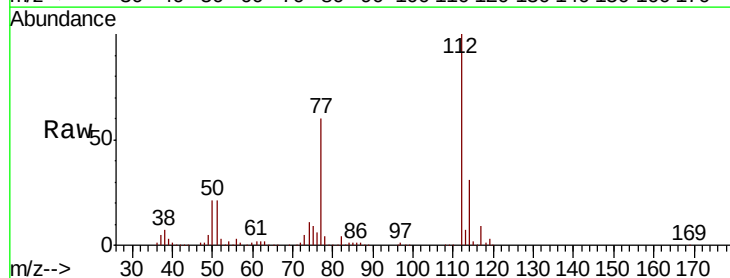
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

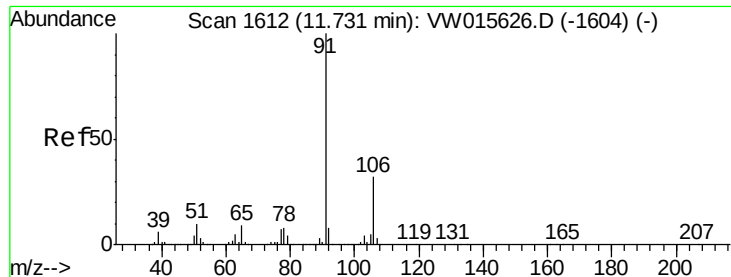
Tot Ion:107 Resp: 68557
Ion Ratio Lower Upper
107 100
109 95.9 64.6 120.0
188 3.9 2.8 4.2



#52
Chlorobenzene
Concen: 22.616 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

Tgt Ion:112 Resp: 266481
Ion Ratio Lower Upper
112 100
77 59.5 49.7 74.5
114 31.2 21.8 40.6

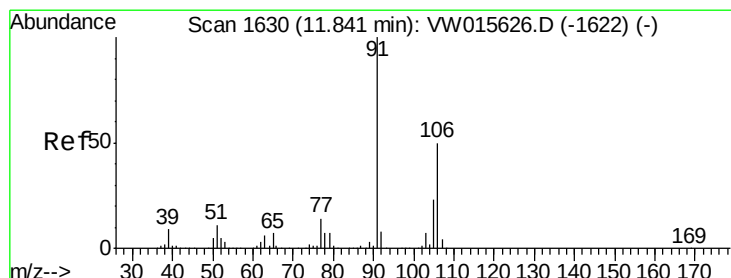
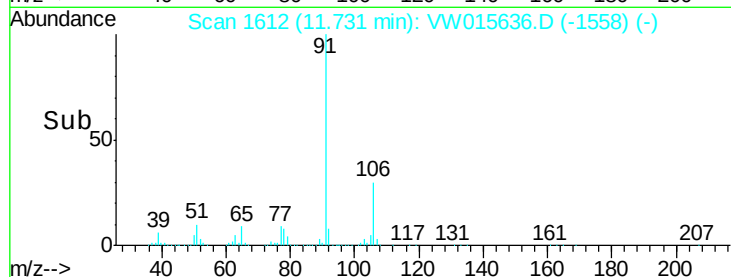
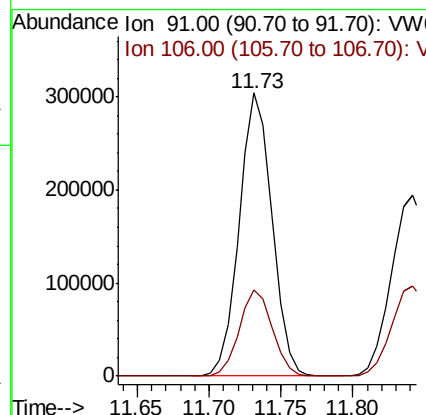
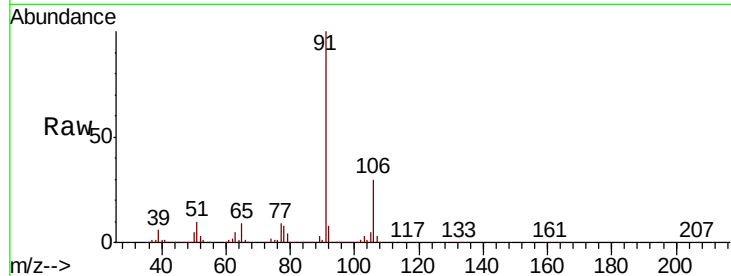




#53
Ethylbenzene
Concen: 22.303 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

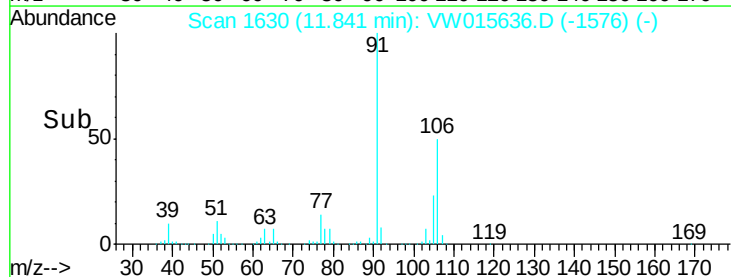
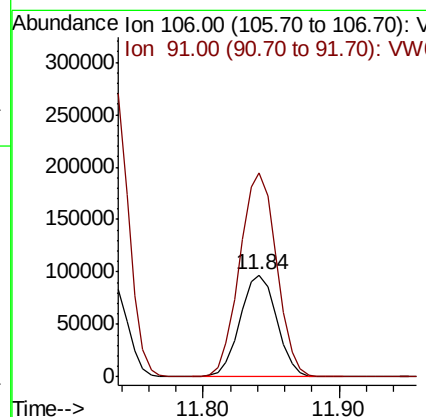
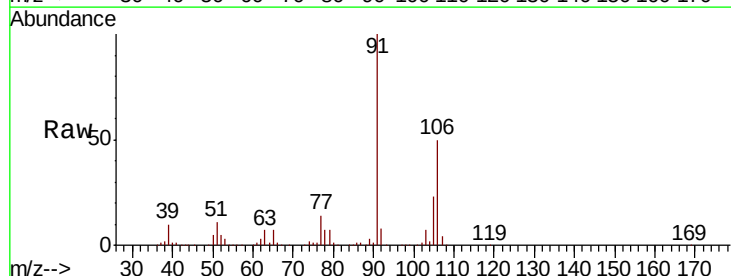
Instrument :
MSVOA_W
ClientSampleId :
VSTD02513

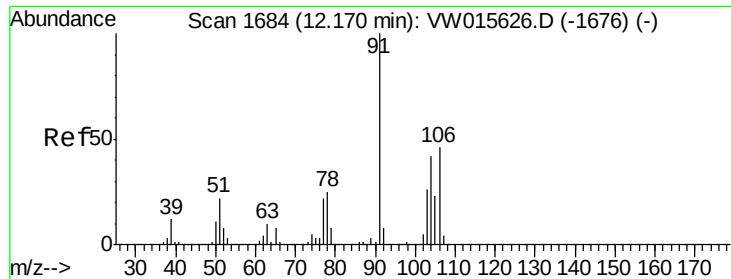
Tot Ion: 91 Resp: 481069
Ion Ratio Lower Upper
91 100
106 30.4 21.3 39.6



#54
m,p-Xylene
Concen: 22.599 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW015636.D
Acq: 18 Jun 2020 15:24

Tgt Ion: 106 Resp: 182913
Ion Ratio Lower Upper
106 100
91 200.0 142.6 264.8





#55

o-xylene

Concen: 22.439 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

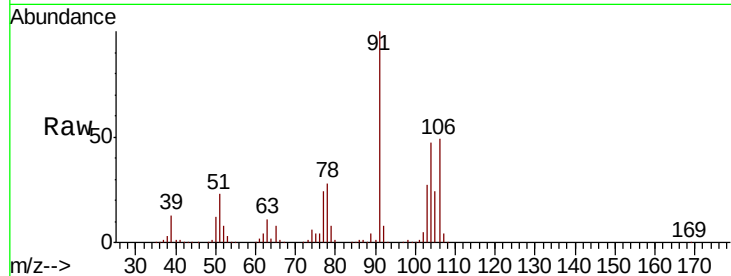
VSTD02513

Tot Ion:106 Resp: 172399

Ion Ratio Lower Upper

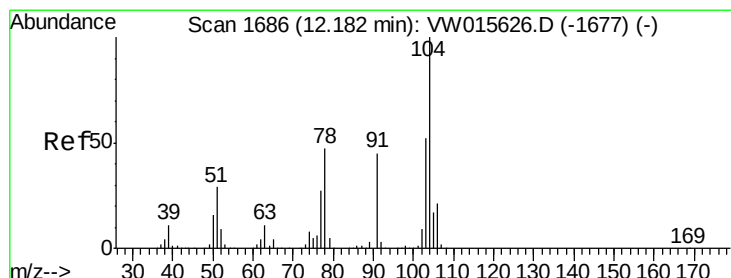
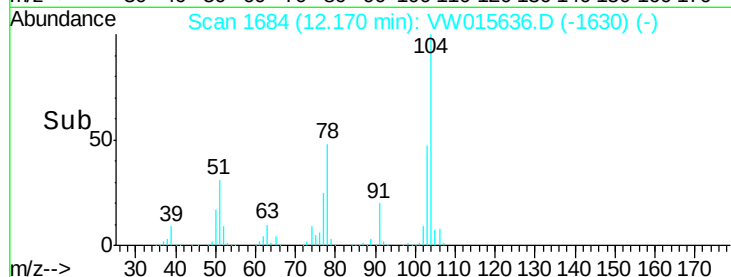
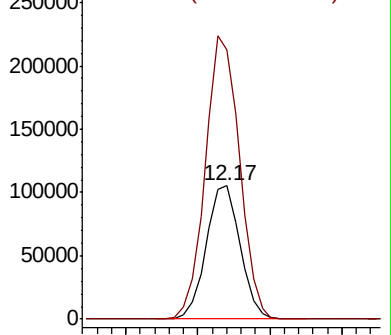
106 100

91 202.4 149.0 276.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 22.883 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW015636.D

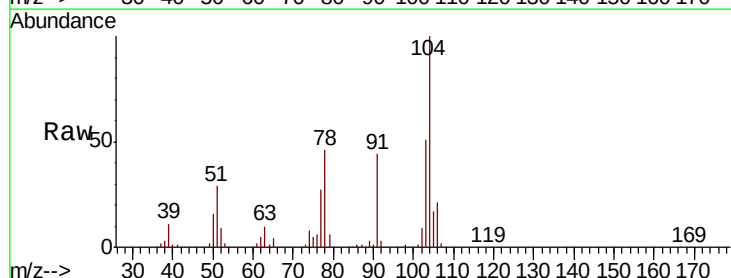
Acq: 18 Jun 2020 15:24

Tgt Ion:104 Resp: 300397

Ion Ratio Lower Upper

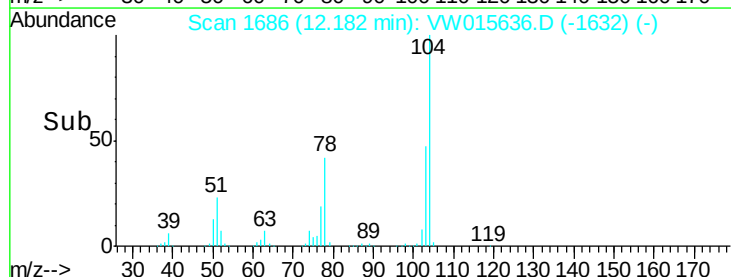
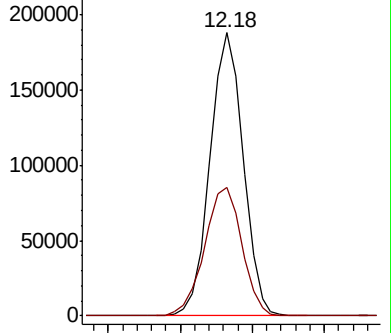
104 100

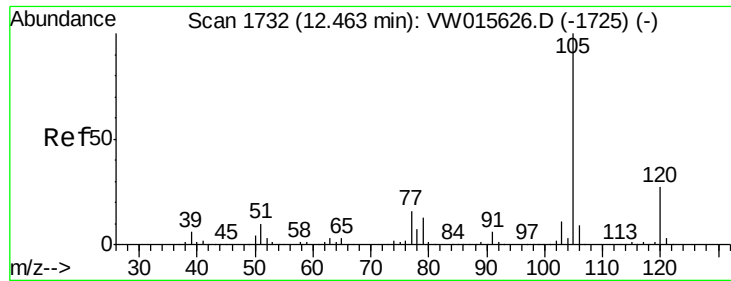
78 45.5 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 22.488 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

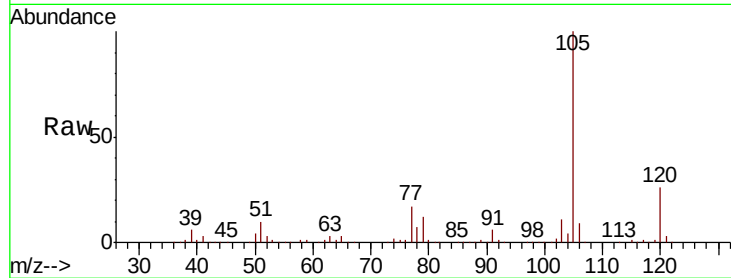
Tot Ion:105 Resp: 481280

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.4

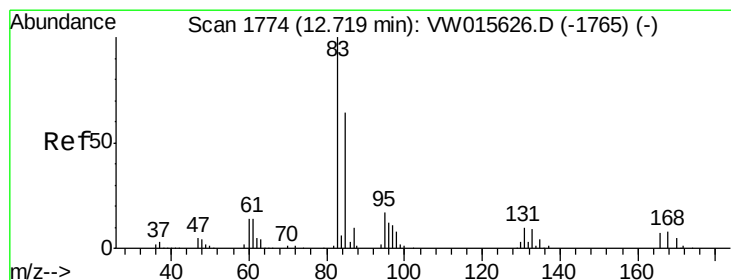
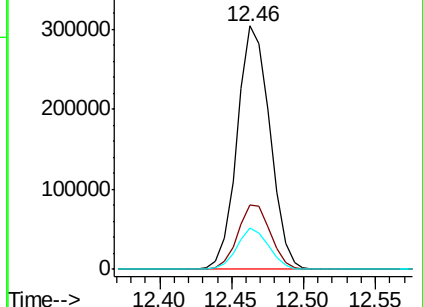
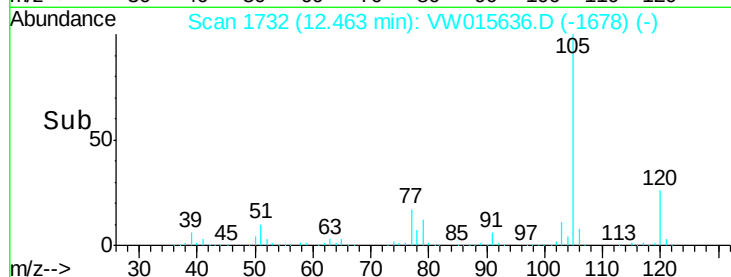
77 16.4 13.0 19.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 25.668 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

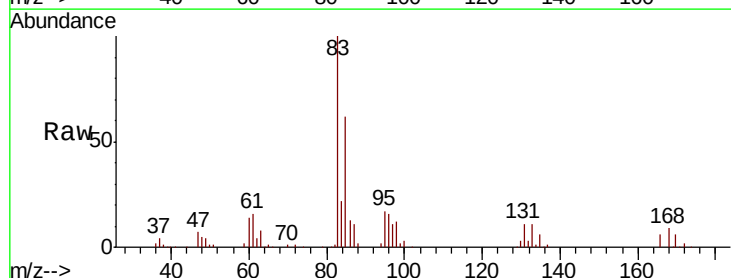
Tgt Ion: 83 Resp: 88275

Ion Ratio Lower Upper

83 100

85 62.4 44.7 82.9

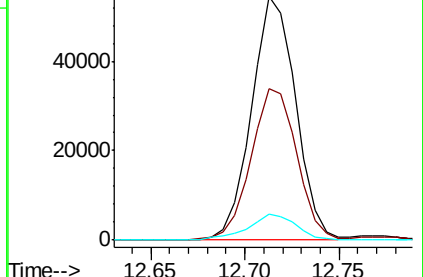
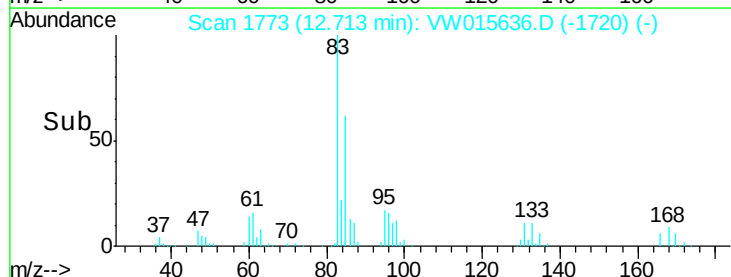
131 10.9 9.1 13.7

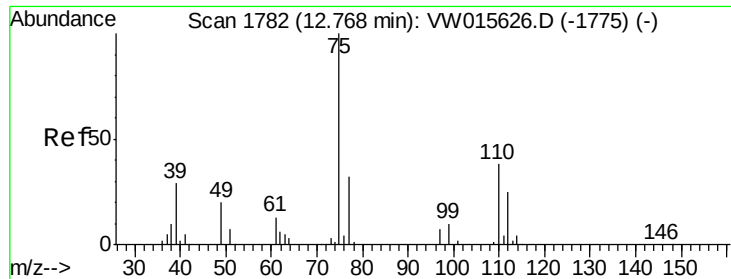


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.615 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

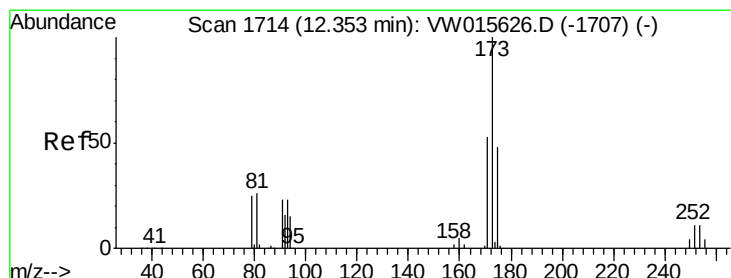
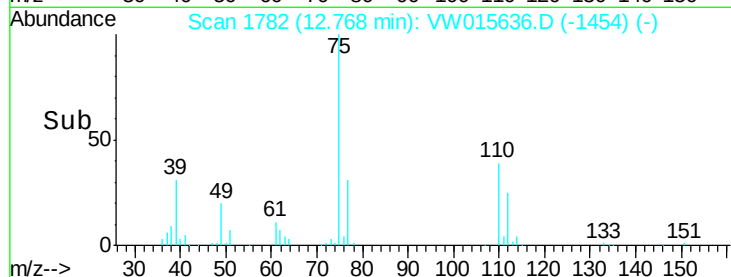
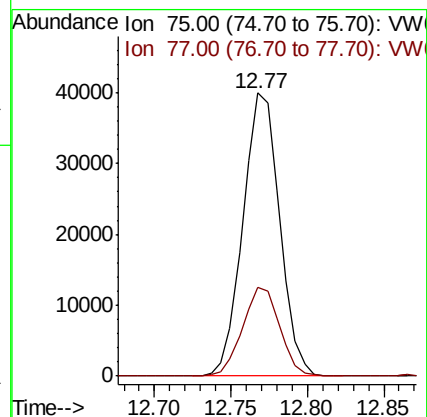
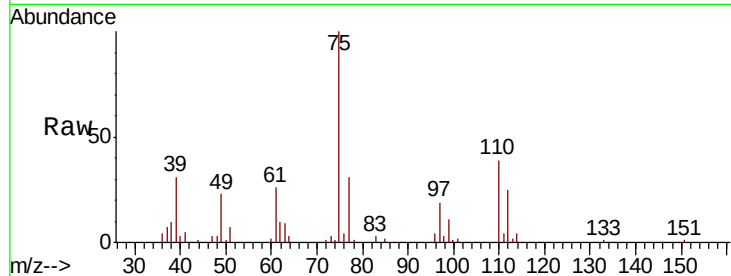
VSTD02513

Tot Ion: 75 Resp: 66795

Ion Ratio Lower Upper

75 100

77 31.8 25.9 38.9



#62

Bromoform

Concen: 21.652 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

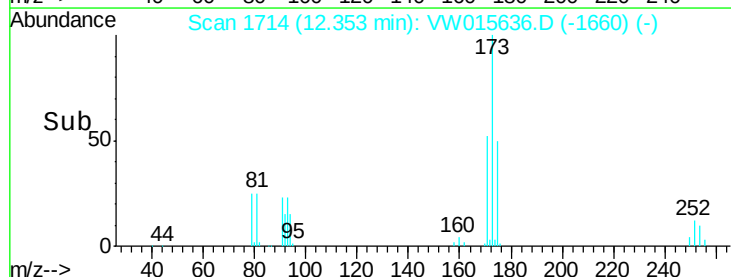
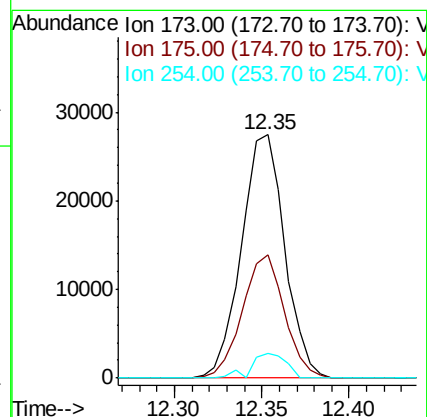
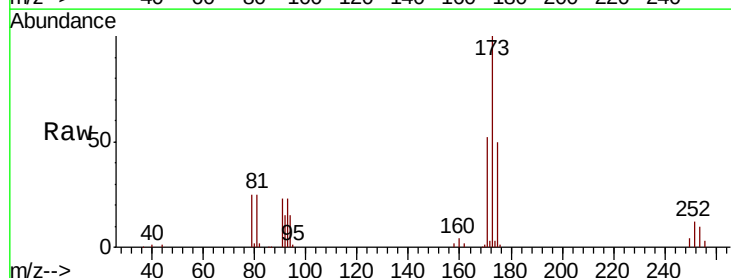
Tgt Ion: 173 Resp: 47287

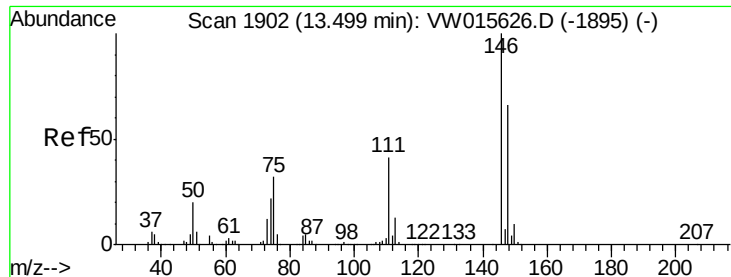
Ion Ratio Lower Upper

173 100

175 49.1 37.9 56.9

254 7.3 6.8 10.2

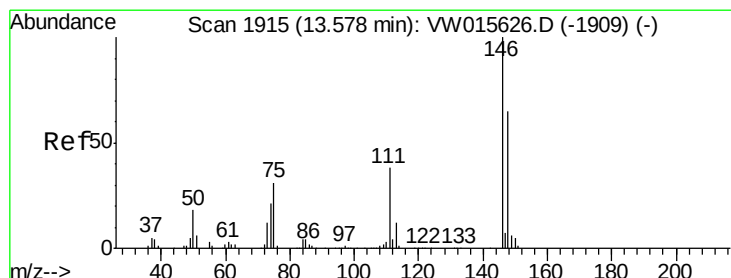
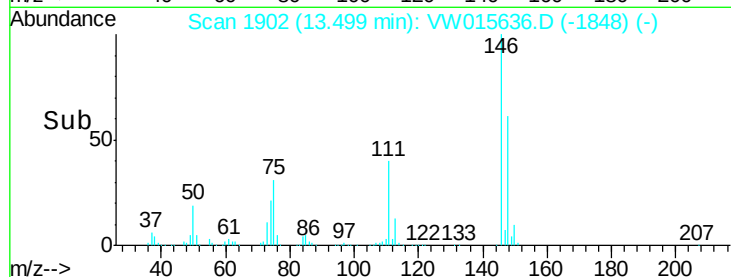
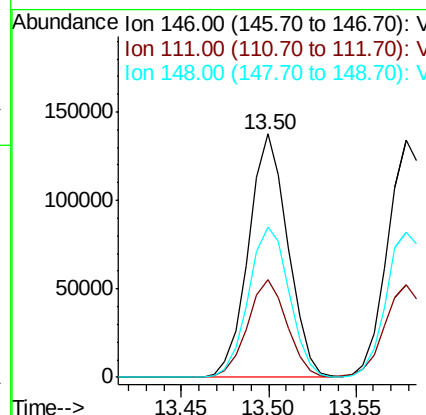
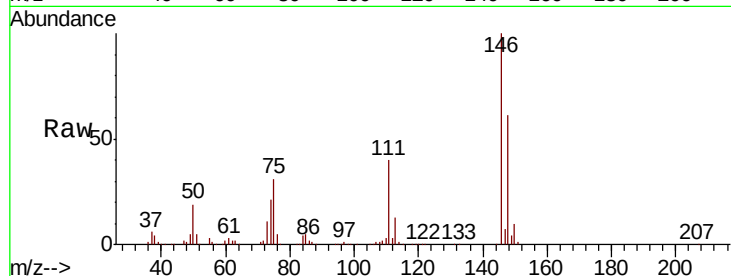




#63
 1,3-Dichlorobenzene
 Concen: 22.391 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

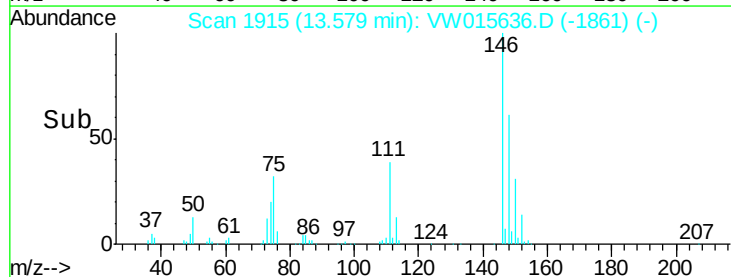
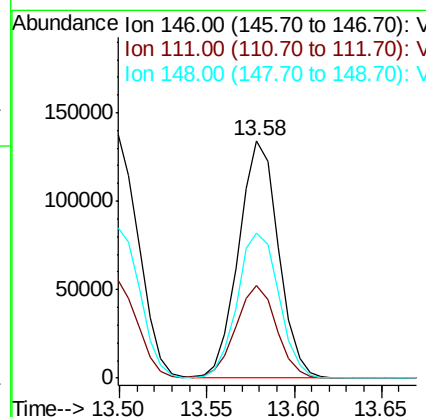
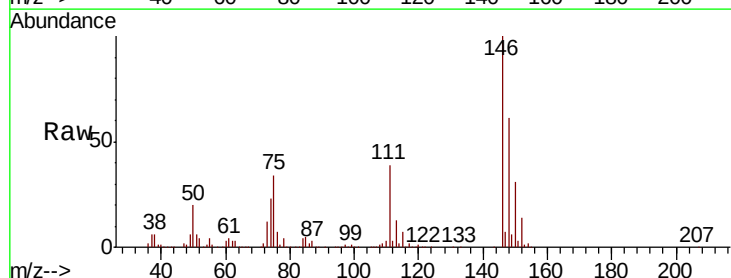
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

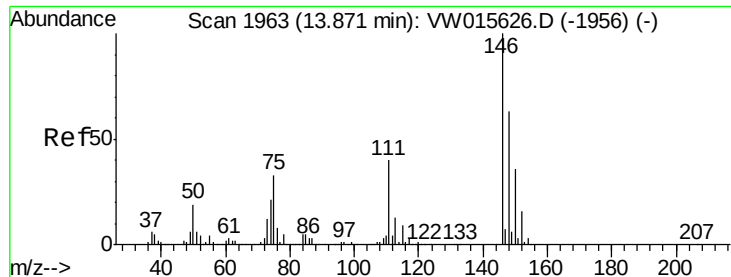
Tot Ion:146 Resp: 214770
 Ion Ratio Lower Upper
 146 100
 111 39.9 29.3 54.5
 148 61.5 42.5 78.9



#64
 1,4-Dichlorobenzene
 Concen: 22.607 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Tgt Ion:146 Resp: 212468
 Ion Ratio Lower Upper
 146 100
 111 39.0 28.1 52.1
 148 61.0 43.3 80.3





#65

1,2-Dichlorobenzene

Concen: 23.188 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

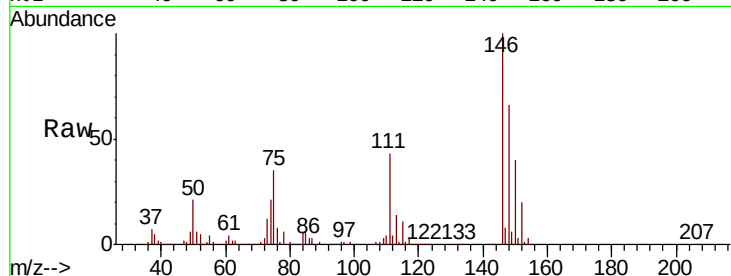
Tot Ion:146 Resp: 193280

Ion Ratio Lower Upper

146 100

111 43.1 34.9 52.3

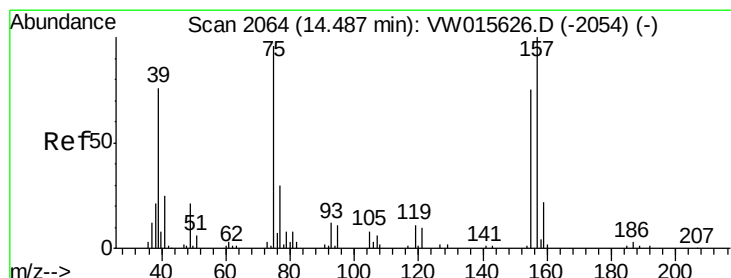
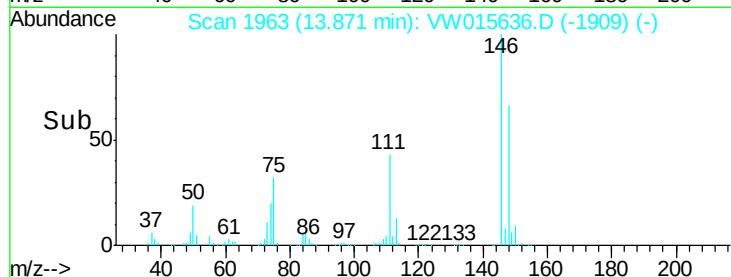
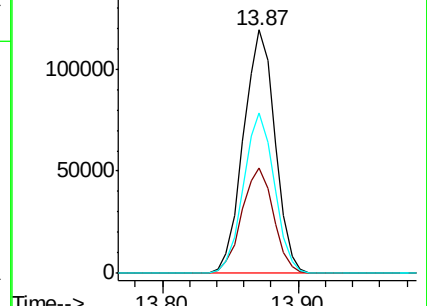
148 65.7 51.8 77.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 22.394 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

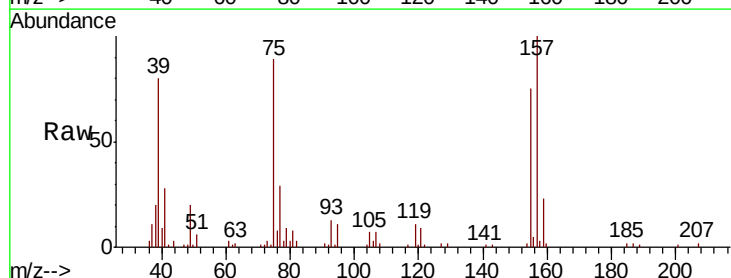
Tgt Ion: 75 Resp: 14160

Ion Ratio Lower Upper

75 100

157 111.9 87.4 131.0

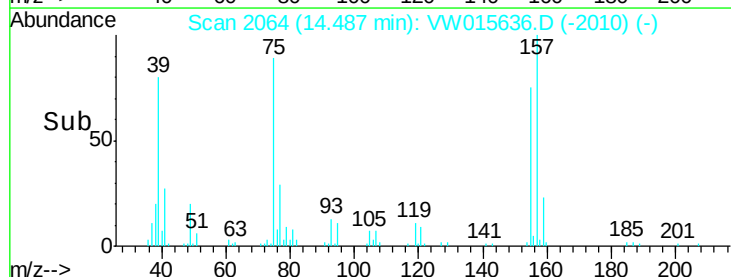
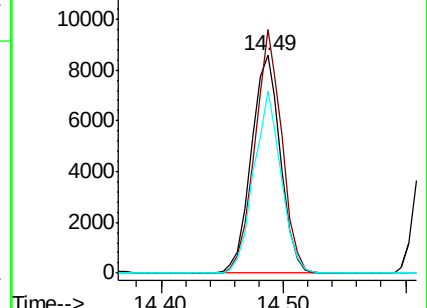
155 84.0 64.6 96.8

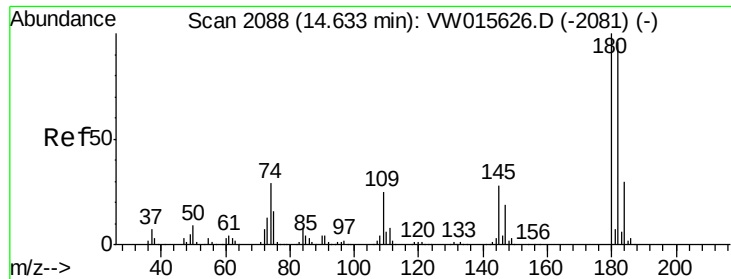


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

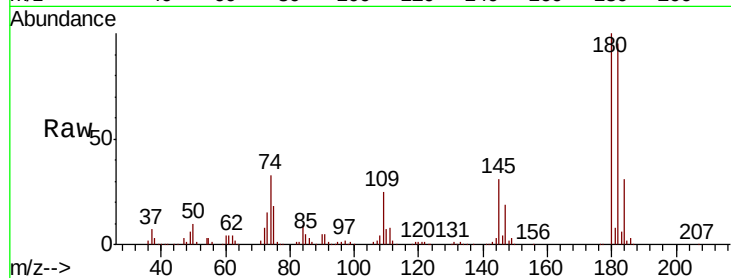




#67
 1,3,5-Trichlorobenzene
 Concen: 23.286 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.01 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02513

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.6	114.8
184	31.2	24.4	36.6
145	30.6	24.0	36.0

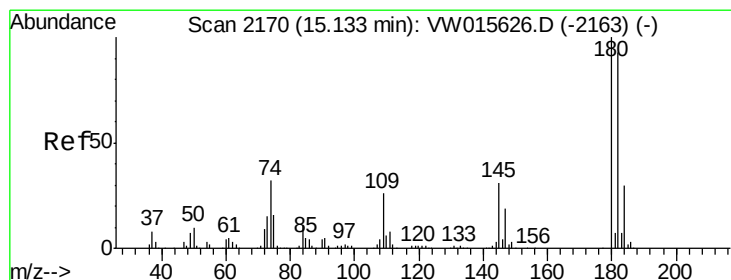
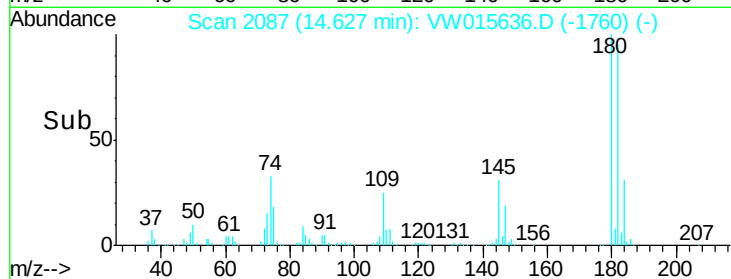
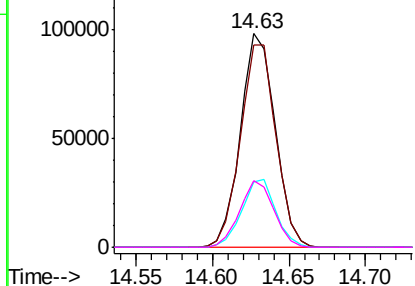


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

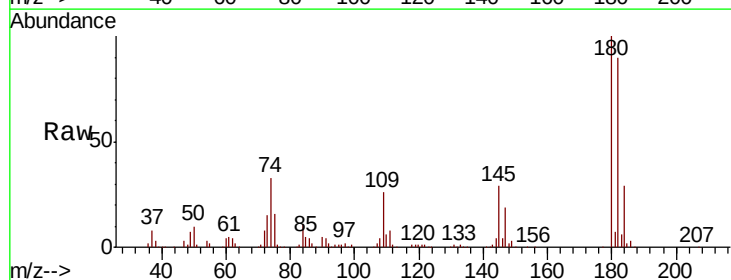
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.304 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015636.D
 Acq: 18 Jun 2020 15:24

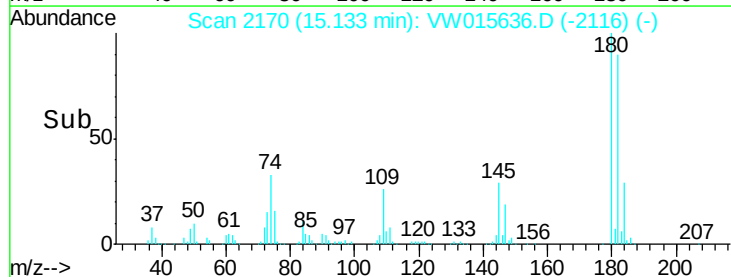
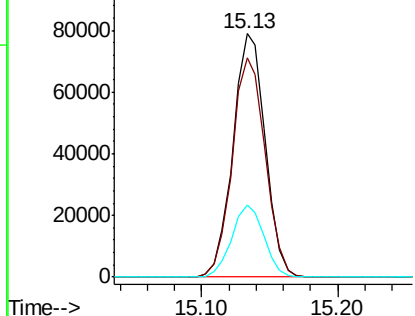
Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.4	76.1	114.1
145	29.8	25.2	37.8

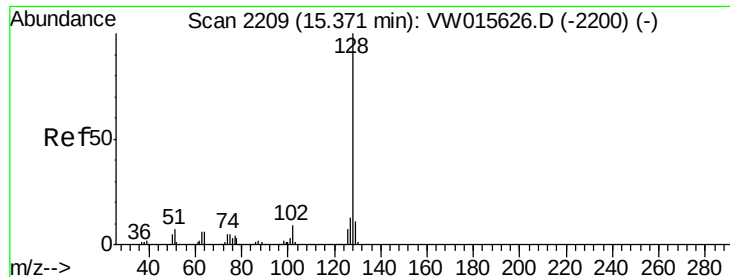


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 24.570 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

Instrument :

MSVOA_W

ClientSampleId :

VSTD02513

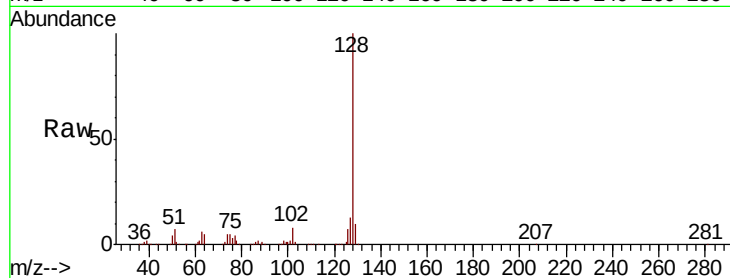
Tot Ion:128 Resp: 238612

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

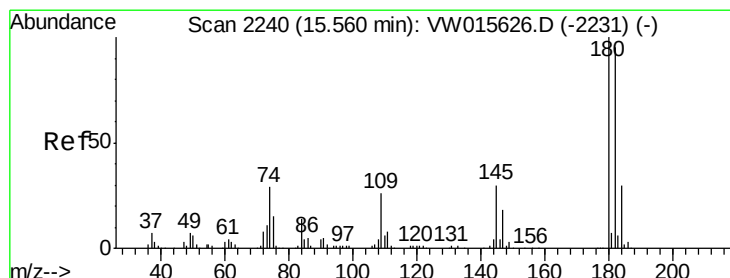
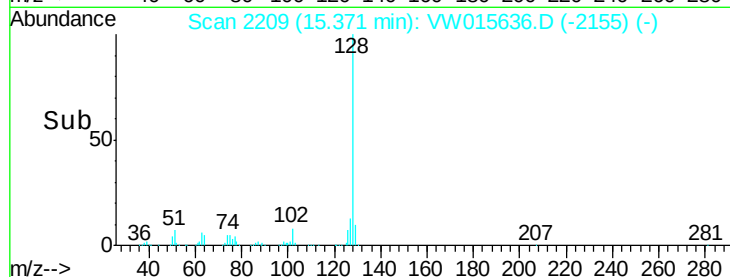
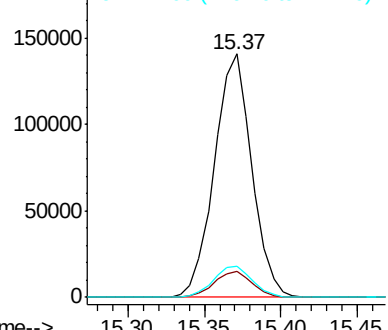
127 13.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 24.555 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW015636.D

Acq: 18 Jun 2020 15:24

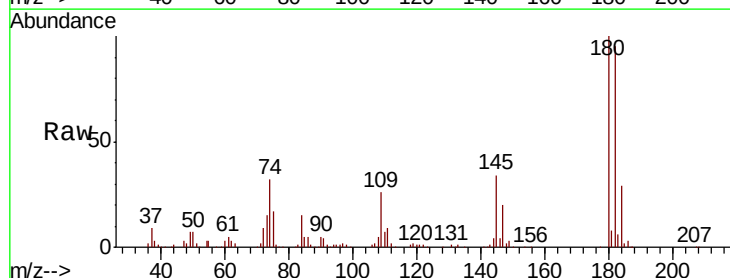
Tgt Ion:180 Resp: 111728

Ion Ratio Lower Upper

180 100

182 97.9 75.4 113.2

145 33.4 26.7 40.1



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

