

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012820\
 Data File : VW014788.D
 Acq On : 28 Jan 2020 15:55
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02527

Quant Time: Jan 28 16:38:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM012720S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jan 28 16:16:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	951557	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	851175	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	405854	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	375803	24.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.72%
7) Chloroethane-d5	2.89	69	334032	26.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.32%
10) 1,1-Dichloroethene-d2	4.02	63	693310	25.42	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	101.68%
20) 2-Butanone-d5	7.07	46	205921	48.12	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.24%
24) Chloroform-d	7.64	84	656891	25.01	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.04%
26) 1,2-Dichloroethane-d4	8.31	65	344041	24.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.28%
29) Benzene-d6	8.27	84	1350657	25.21	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.84%
33) 1,2-Dichloropropane-d6	9.27	67	414053	24.86	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.44%
37) Toluene-d8	10.32	98	1215313	25.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.88%
38) trans-1,3-Dichloropropene-	10.57	79	164597	24.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.24%
39) 2-Hexanone-d5	10.92	63	161419	51.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.32%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	314074	24.03	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.12%
61) 1,2-Dichlorobenzene-d4	13.85	152	394056	24.77	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.08%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	304428	26.02	ug/L	100
3) Chloromethane	2.21	50	327993	24.03	ug/L	100
5) Vinyl chloride	2.36	62	524856	27.33	ug/L	97
6) Bromomethane	2.78	94	259993	25.90	ug/L	99
8) Chloroethane	2.92	64	278915	26.81	ug/L	100
9) Trichlorofluoromethane	3.26	101	283277	30.72	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	342748	26.02	ug/L	98
12) 1,1-Dichloroethene	4.04	96	340342	26.20	ug/L	94
13) Acetone	4.11	43	236360	51.57	ug/L	99
14) Carbon disulfide	4.39	76	1105985	26.01	ug/L	99
15) Methyl Acetate	4.67	43	171934	25.14	ug/L	99
16) Methylene chloride	4.91	84	359503	22.36	ug/L	99
17) Methyl tert-butyl Ether	5.42	73	452890	26.38	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	355766	26.51	ug/L	99
19) 1,1-Dichloroethane	6.21	63	653377	25.96	ug/L	99
21) 2-Butanone	7.17	43	264118	51.46	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	364897	25.97	ug/L	97

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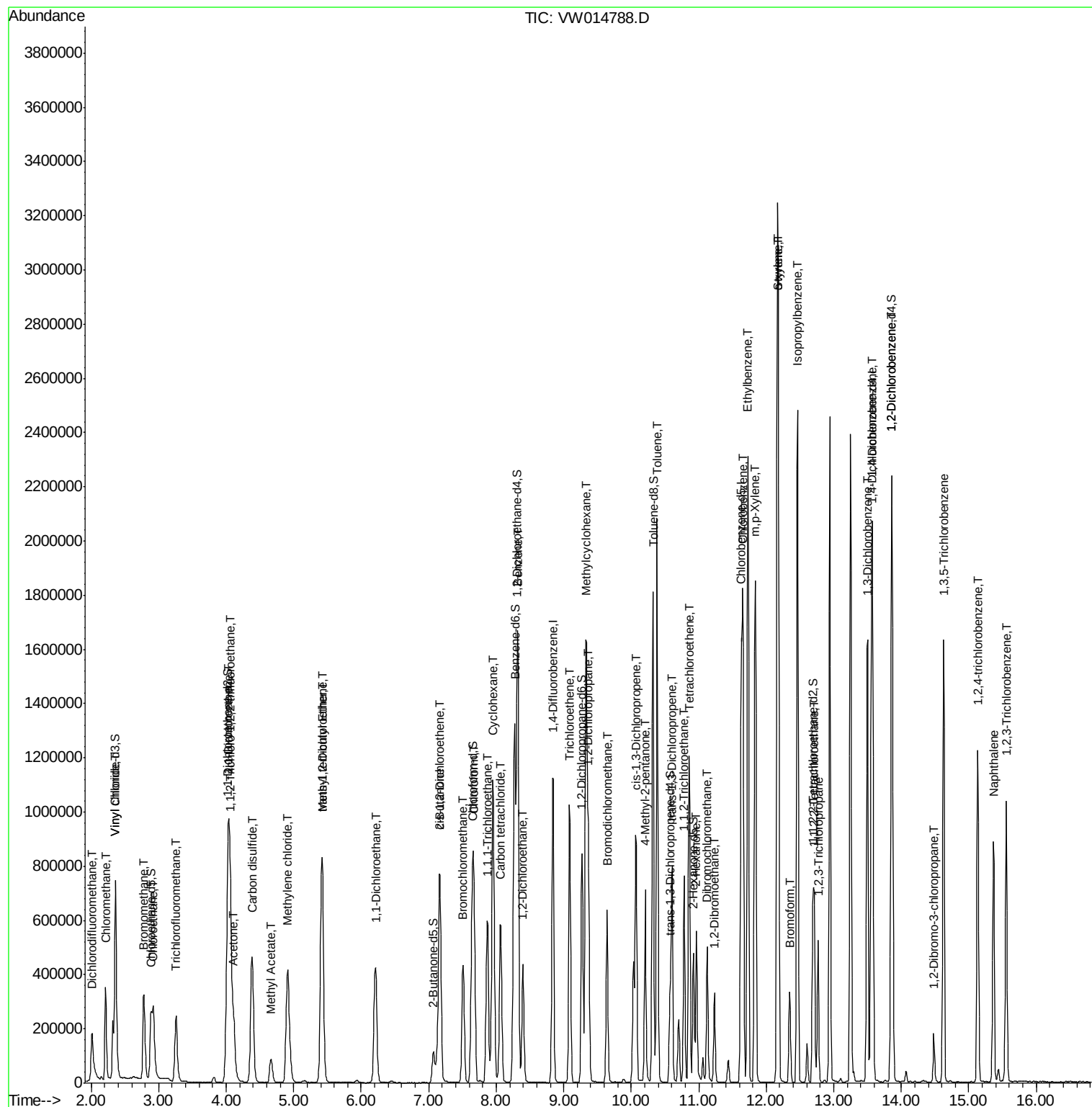
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	155115	25.26	ug/L	95
25) Chloroform	7.67	83	613374	26.12	ug/L	99
27) 1,2-Dichloroethane	8.40	62	398753	25.70	ug/L	99
30) Cyclohexane	7.95	56	657112	28.27	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	493679	26.56	ug/L	99
32) Carbon tetrachloride	8.06	117	457702	26.28	ug/L	100
34) Benzene	8.32	78	1445026	26.51	ug/L	100
35) Trichloroethene	9.09	95	362214	26.15	ug/L	99
36) Methylcyclohexane	9.33	83	665909	27.64	ug/L	99
40) 1,2-Dichloropropane	9.37	63	364601	26.38	ug/L	100
41) Bromodichloromethane	9.64	83	427783	25.90	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	546247	27.06	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	474566	52.23	ug/L	100
44) Toluene	10.38	91	1492892	26.95	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	434822	26.54	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	243347	25.80	ug/L	99
47) Tetrachloroethene	10.86	164	286491	25.89	ug/L	98
49) 2-Hexanone	10.96	43	359429	55.02	ug/L	100
50) Dibromochloromethane	11.13	129	278034	25.83	ug/L	95
51) 1,2-Dibromoethane	11.23	107	228864	25.22	ug/L	96
52) Chlorobenzene	11.65	112	895752	25.90	ug/L	99
53) Ethylbenzene	11.73	91	1639162	27.08	ug/L	100
54) m,p-Xylene	11.83	106	615430	27.20	ug/L	88
55) o-xylene	12.16	106	570522	26.87	ug/L	99
56) Styrene	12.18	104	991466	27.53	ug/L	100
57) Isopropylbenzene	12.46	105	1566333	27.24	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	299018	24.60	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	224423	24.58	ug/L	99
62) Bromoform	12.35	173	157027	24.65	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	690235	26.34	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	686259	26.13	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	624824	26.22	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	47588	24.35	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	525006	27.05	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	406656	28.23	ug/L	100
69) Naphthalene	15.36	128	753802	28.94	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	366920	27.79	ug/L	99

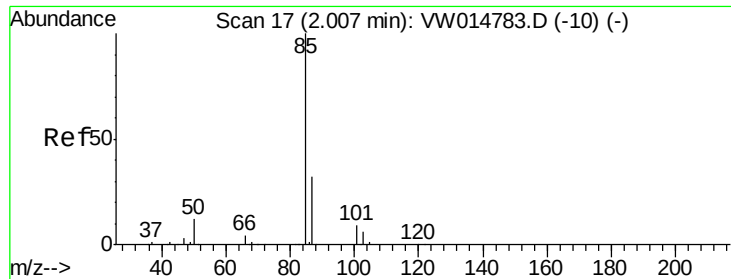
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 26.02 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampled :

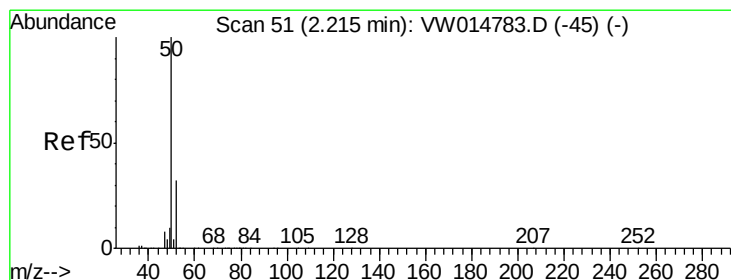
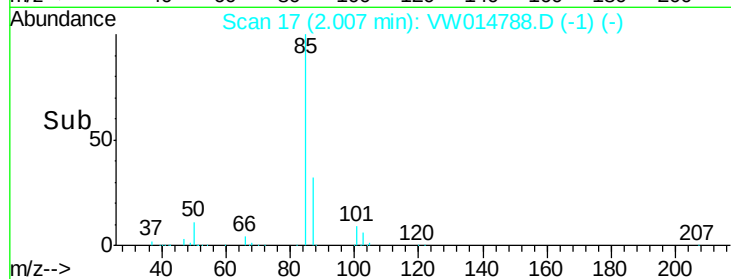
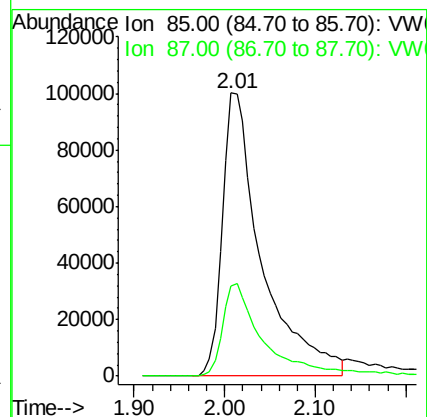
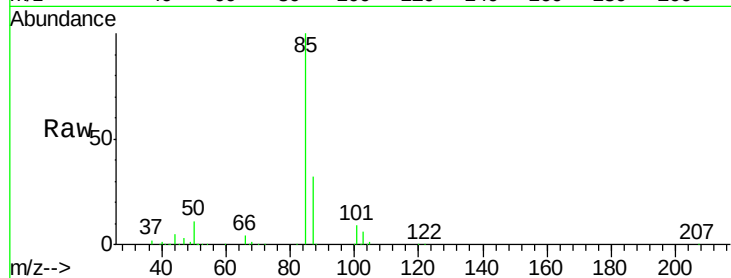
VSTD02527

Tgt Ion: 85 Resp: 304428

Ion Ratio Lower Upper

85 100

87 31.6 22.0 40.8



#3

Chloromethane

Concen: 24.03 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014788.D

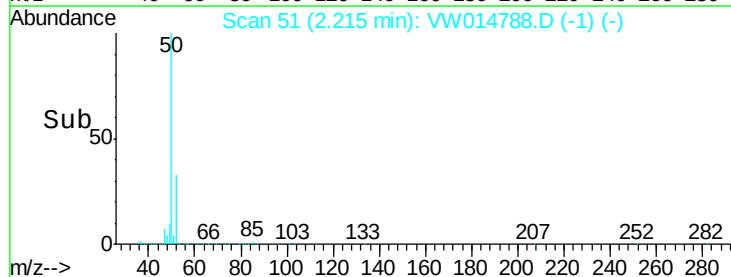
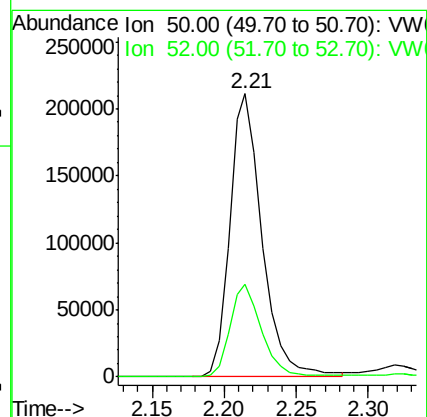
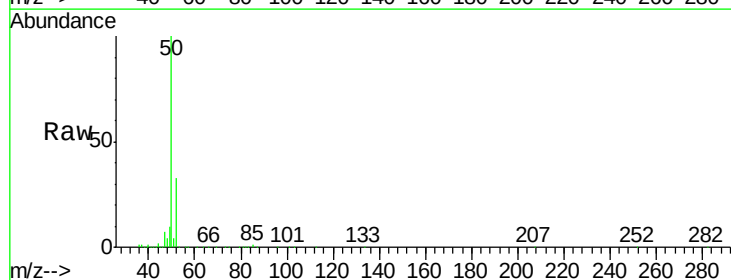
Acq: 28 Jan 2020 15:55

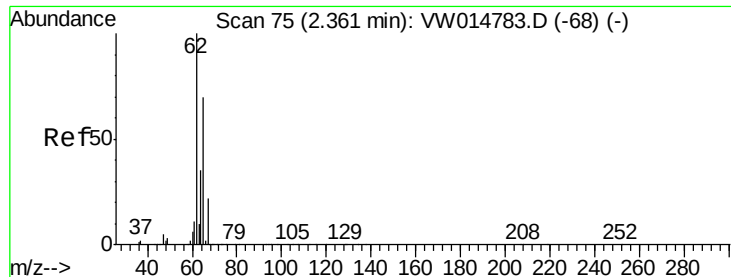
Tgt Ion: 50 Resp: 327993

Ion Ratio Lower Upper

50 100

52 32.6 22.9 42.5





#5

Vinyl chloride

Concen: 27.33 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

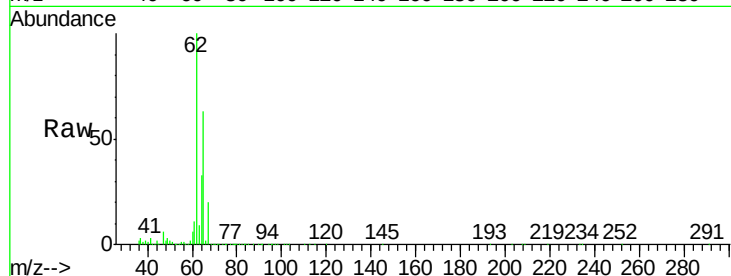
VSTD02527

Tgt Ion: 62 Resp: 524856

Ion Ratio Lower Upper

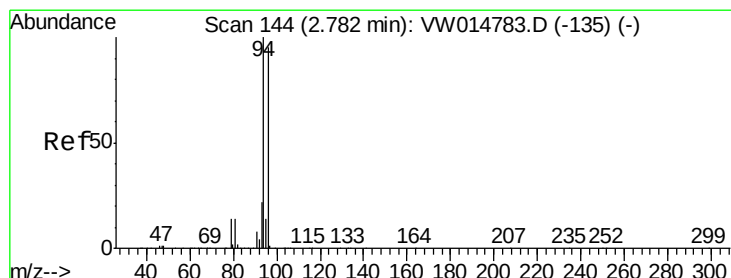
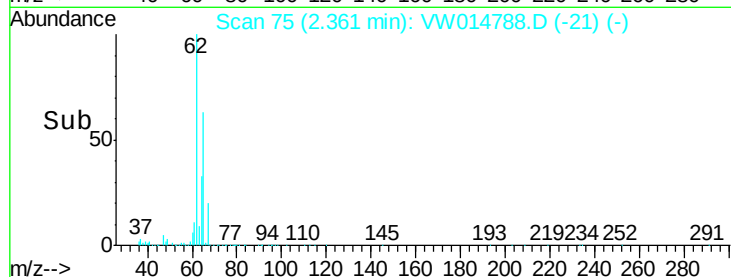
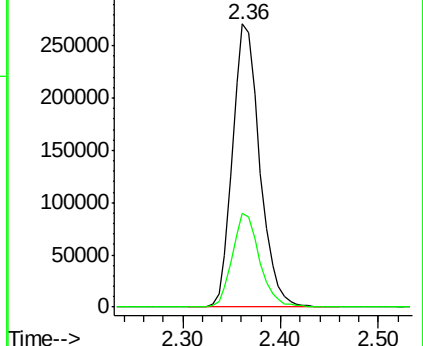
62 100

64 33.1 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 25.90 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW014788.D

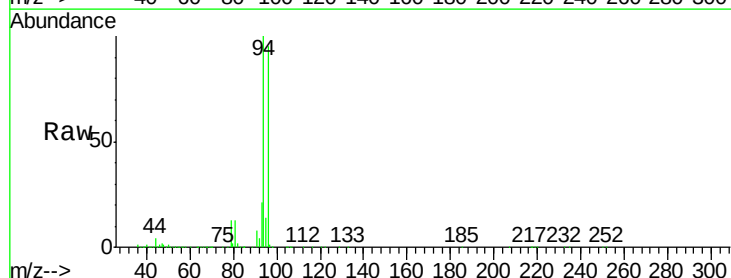
Acq: 28 Jan 2020 15:55

Tgt Ion: 94 Resp: 259993

Ion Ratio Lower Upper

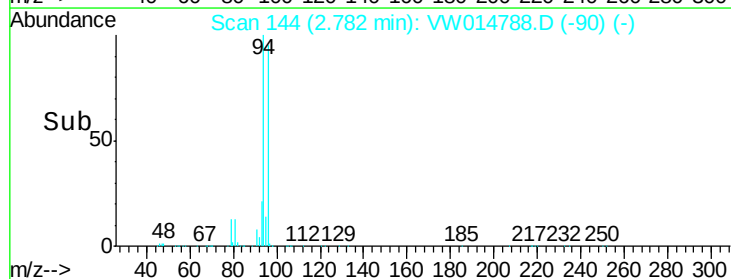
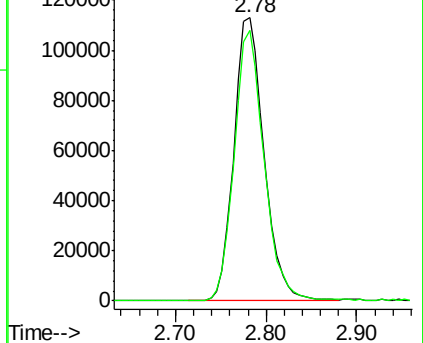
94 100

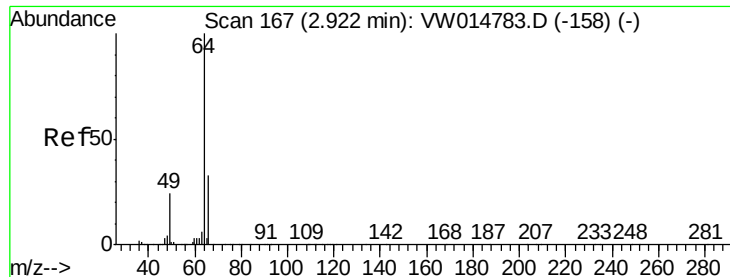
96 94.4 9.3 177.7



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 26.81 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

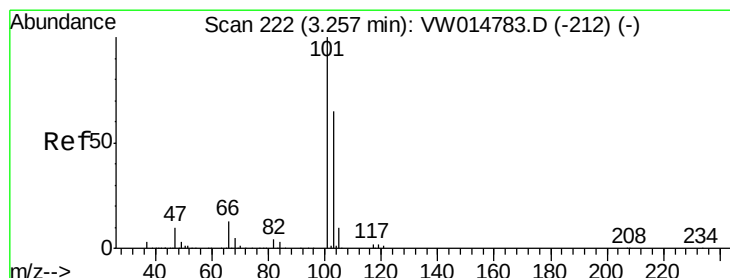
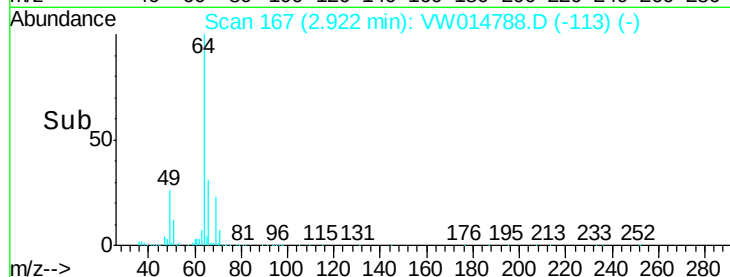
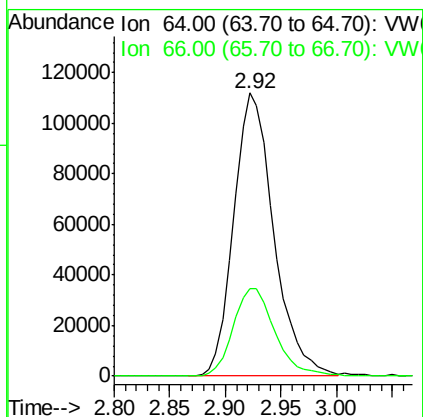
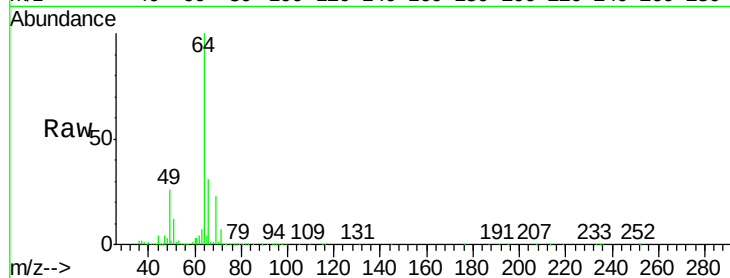
VSTD02527

Tgt Ion: 64 Resp: 278915

Ion Ratio Lower Upper

64 100

66 31.0 21.8 40.4



#9

Trichlorofluoromethane

Concen: 30.72 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014788.D

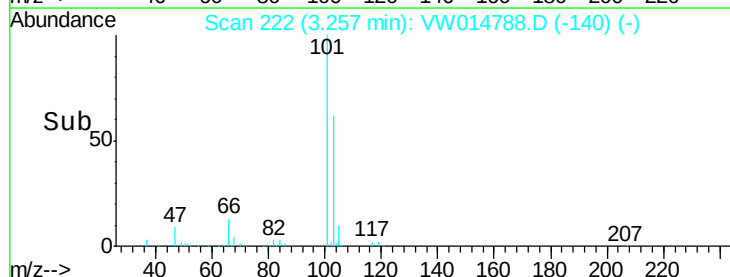
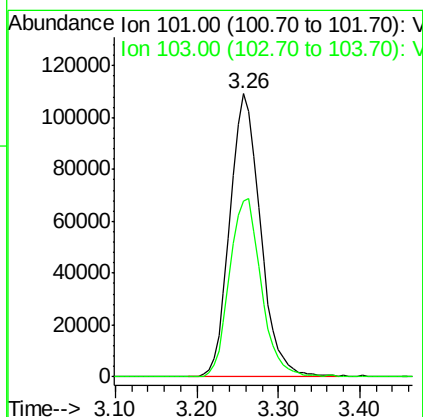
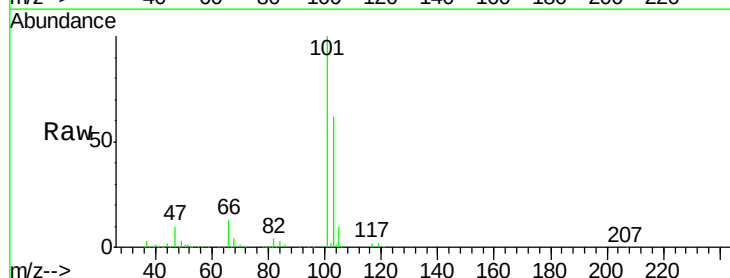
Acq: 28 Jan 2020 15:55

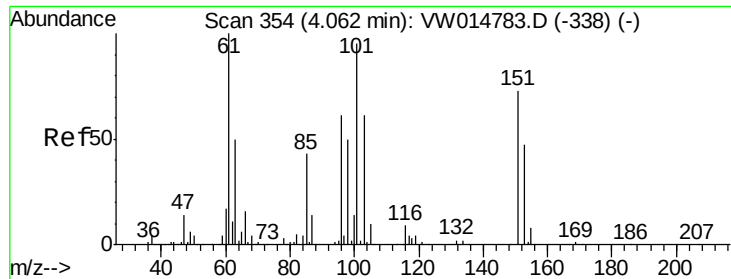
Tgt Ion: 101 Resp: 283277

Ion Ratio Lower Upper

101 100

103 65.0 45.1 83.9





#11

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

Concen: 26.02 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD02527

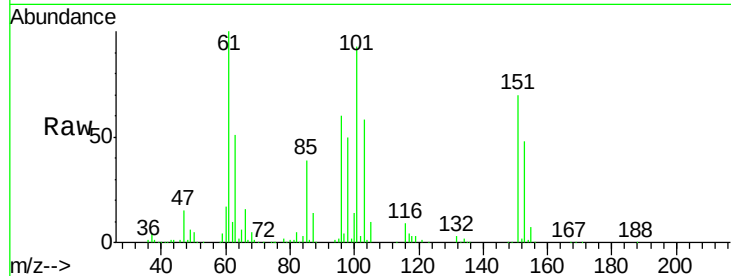
Tgt Ion:101 Resp: 342748

Ion Ratio Lower Upper

101 100

85 42.0 33.8 50.6

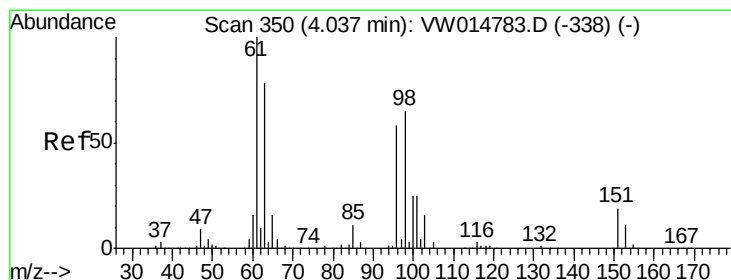
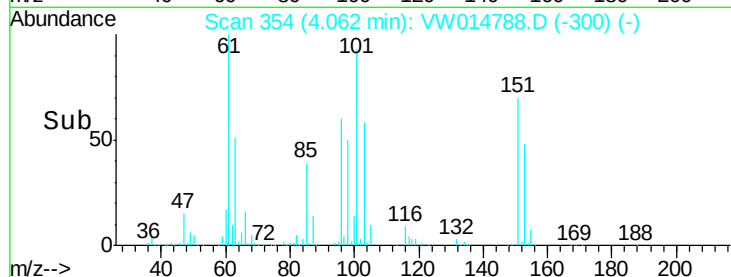
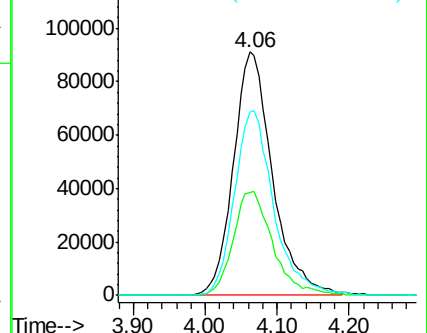
151 76.5 59.7 89.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.20 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

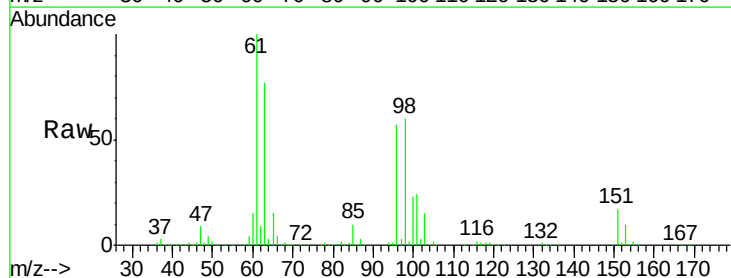
Tgt Ion: 96 Resp: 340342

Ion Ratio Lower Upper

96 100

61 176.8 124.3 230.9

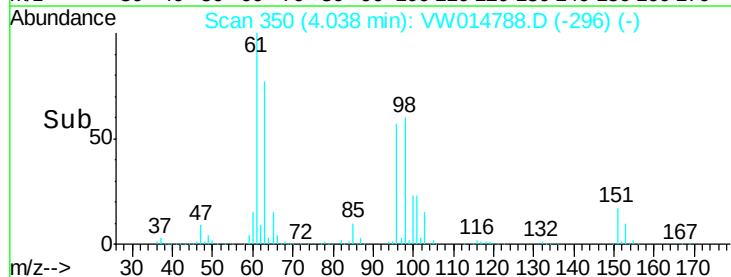
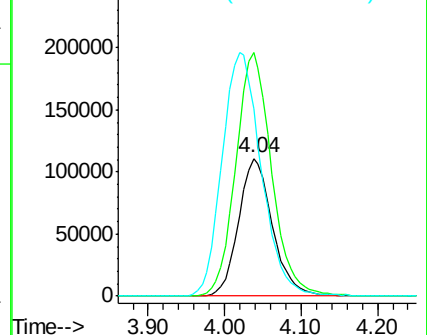
63 136.4 107.0 198.6

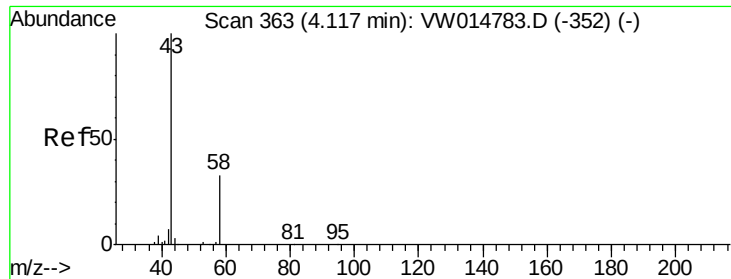


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 51.57 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

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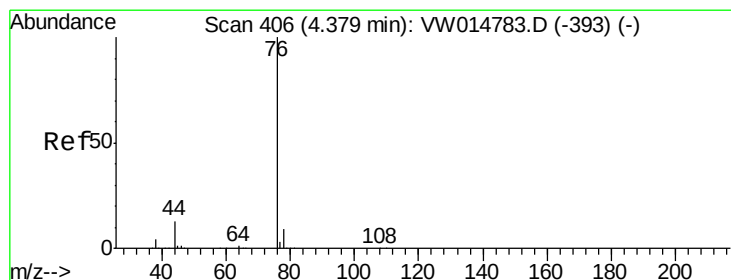
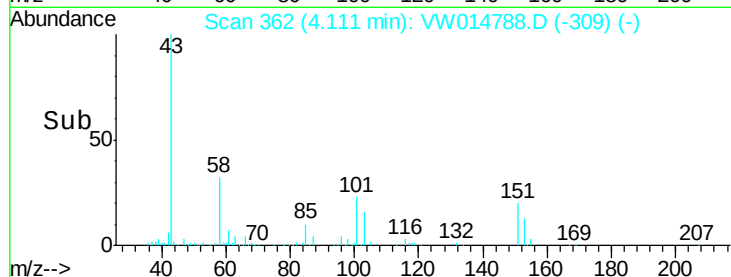
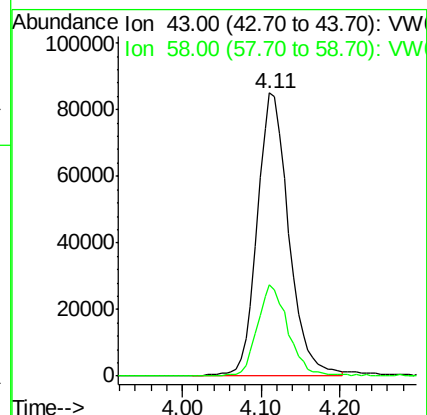
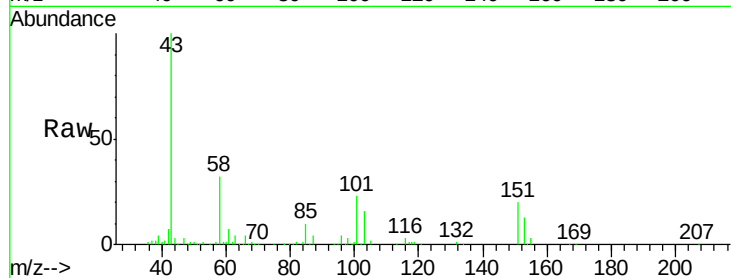
VSTD02527

Tgt Ion: 43 Resp: 236360

Ion Ratio Lower Upper

43 100

58 31.5 0.0 64.6



#14

Carbon disulfide

Concen: 26.01 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014788.D

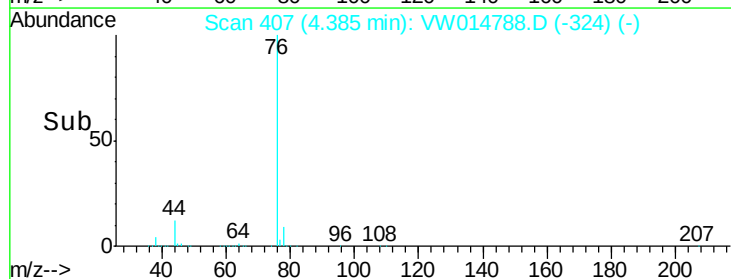
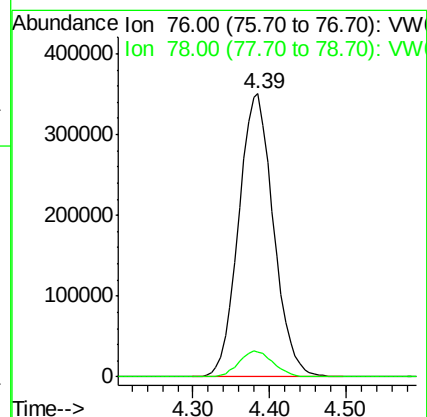
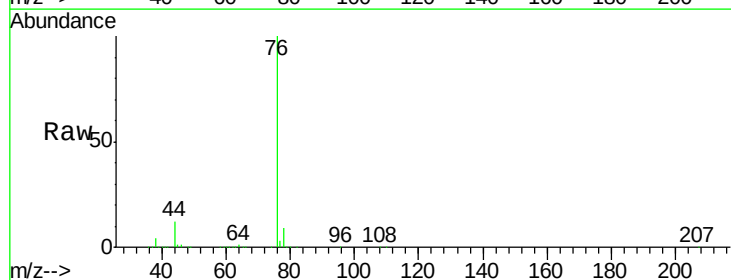
Acq: 28 Jan 2020 15:55

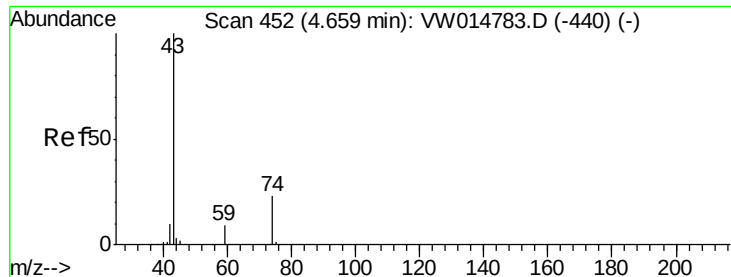
Tgt Ion: 76 Resp: 1105985

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9

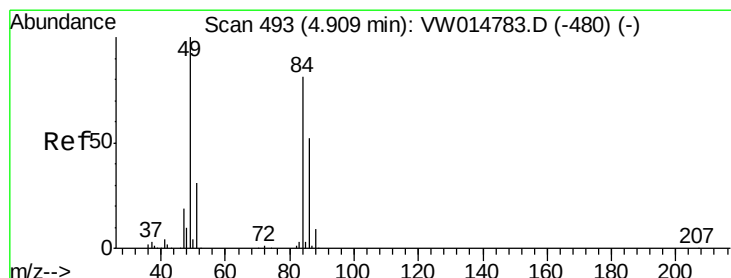
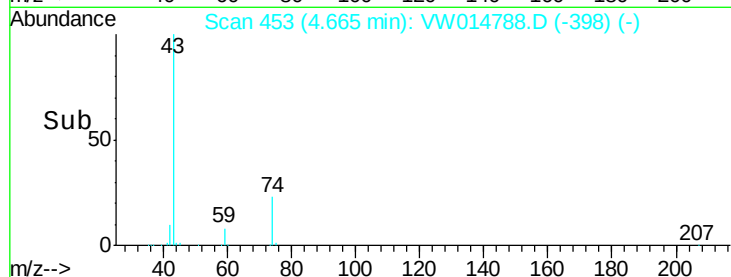
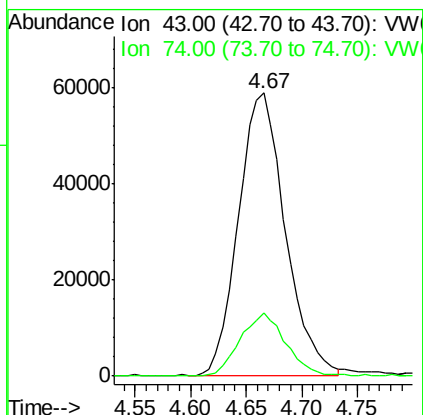
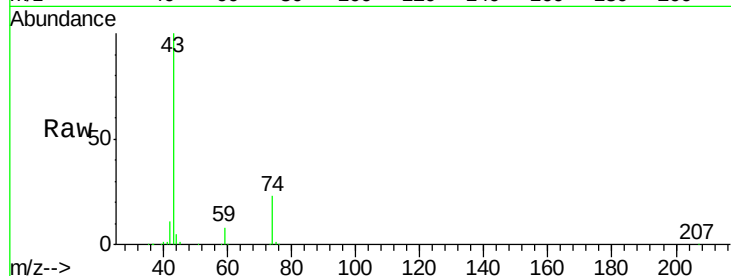




#15
Methyl Acetate
Concen: 25.14 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

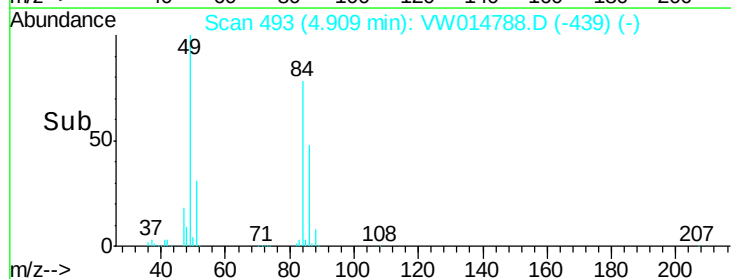
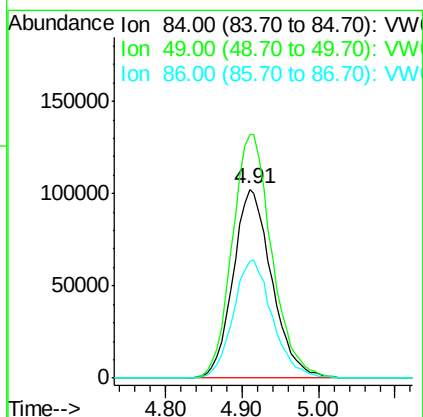
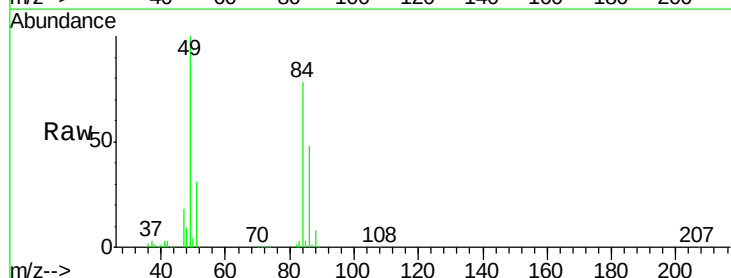
Instrument :
MSVOA_W
ClientSampleId :
VSTD02527

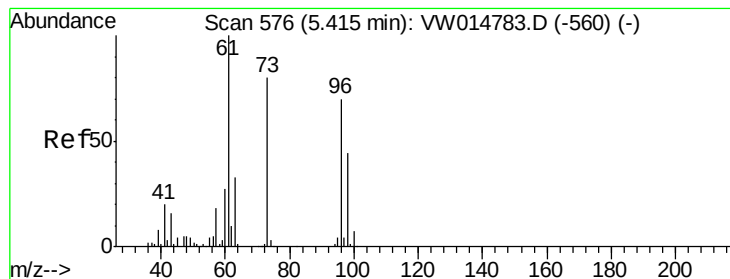
Tgt Ion: 43 Resp: 171934
Ion Ratio Lower Upper
43 100
74 21.8 18.0 27.0



#16
Methylene chloride
Concen: 22.36 ug/L
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

Tgt Ion: 84 Resp: 359503
Ion Ratio Lower Upper
84 100
49 128.7 90.9 168.7
86 62.1 43.5 80.7





#17

Methyl tert-butyl Ether

Concen: 26.38 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD02527

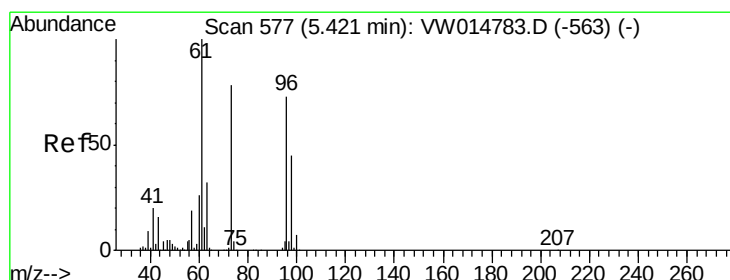
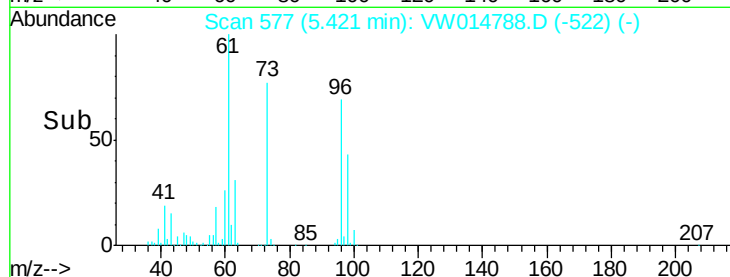
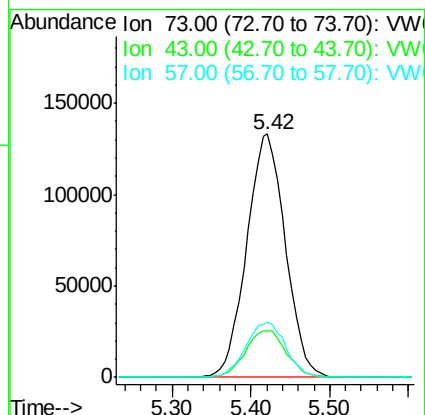
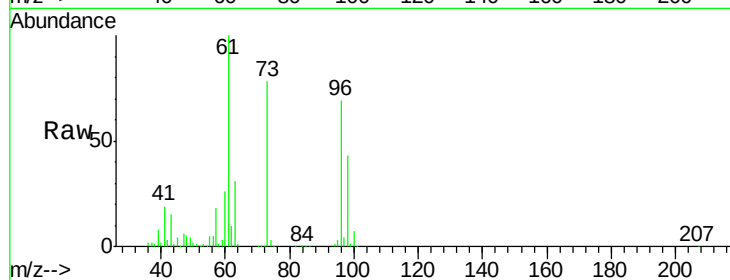
Tgt Ion: 73 Resp: 452890

Ion Ratio Lower Upper

73 100

43 20.3 16.2 24.4

57 23.4 19.1 28.7



#18

trans-1,2-Dichloroethene

Concen: 26.51 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

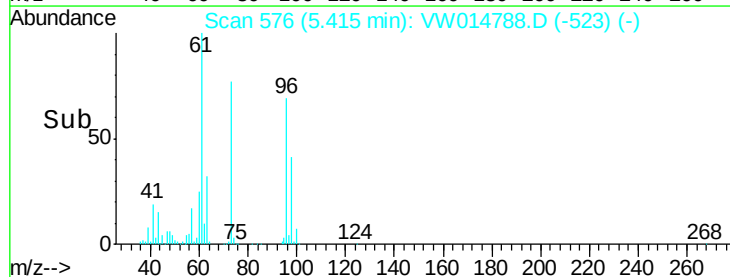
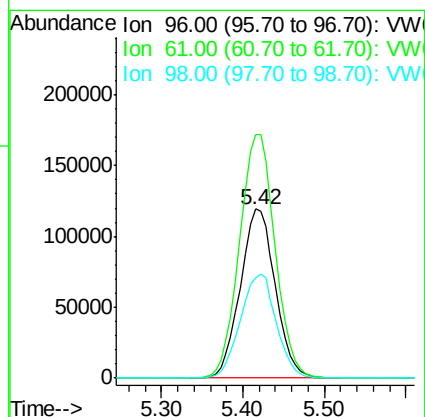
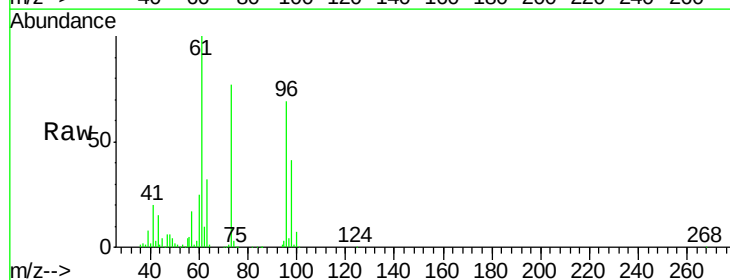
Tgt Ion: 96 Resp: 355766

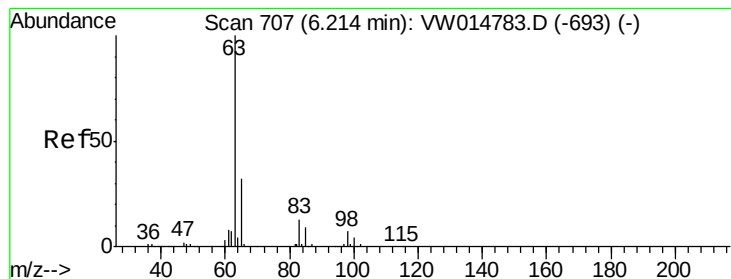
Ion Ratio Lower Upper

96 100

61 144.0 100.2 186.0

98 59.6 43.1 80.1





#19

1,1-Dichloroethane

Concen: 25.96 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD02527

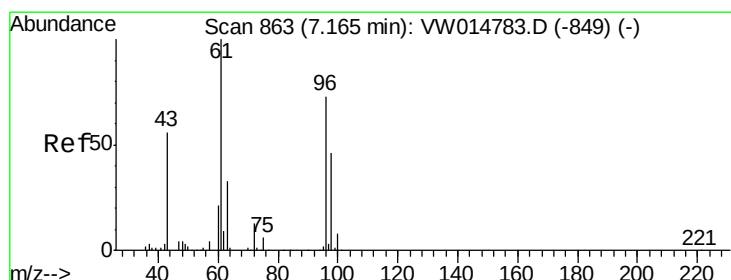
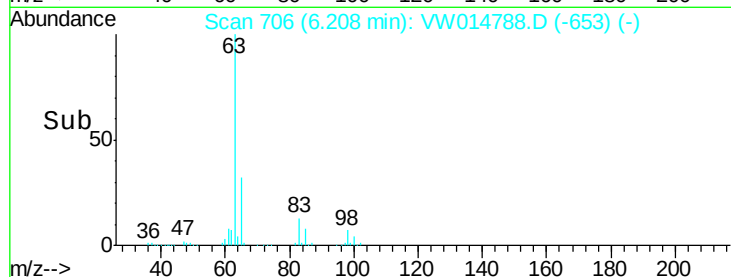
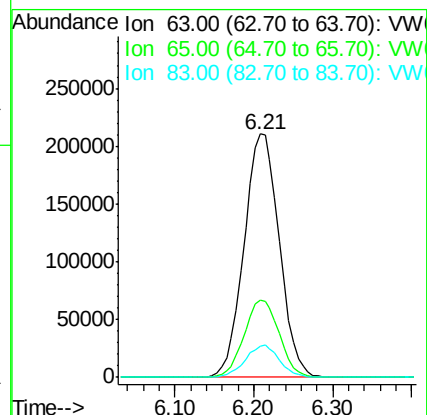
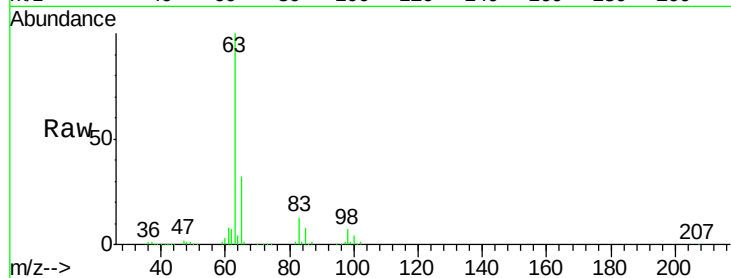
Tgt Ion: 63 Resp: 653377

Ion Ratio Lower Upper

63 100

65 31.7 21.7 40.3

83 12.9 8.8 16.4



#21

2-Butanone

Concen: 51.46 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014788.D

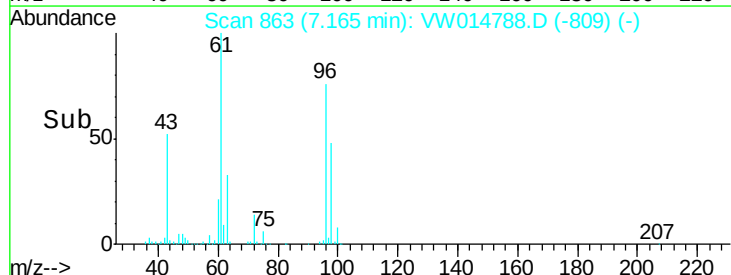
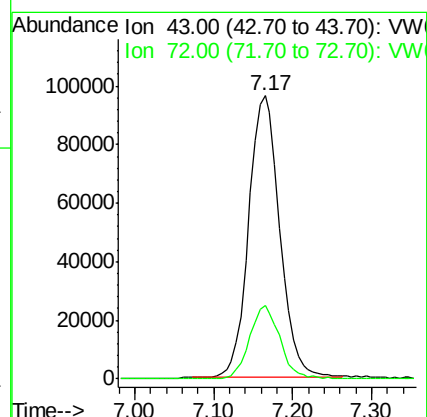
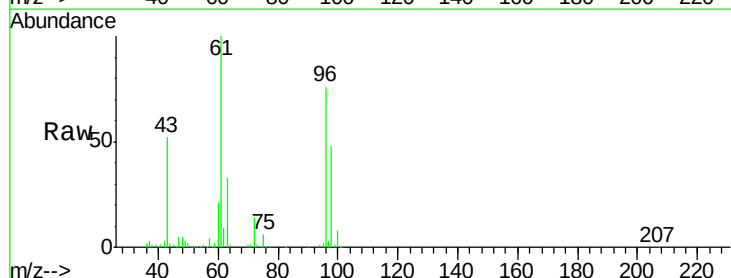
Acq: 28 Jan 2020 15:55

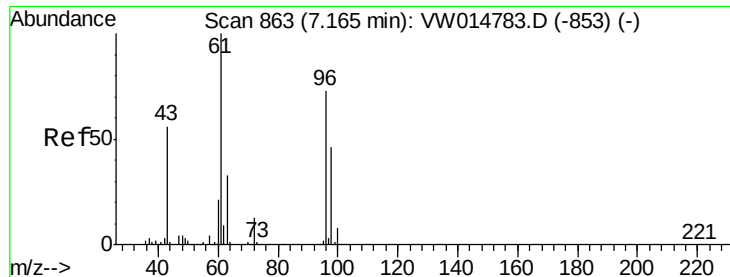
Tgt Ion: 43 Resp: 264118

Ion Ratio Lower Upper

43 100

72 25.1 12.6 37.6





#22

cis-1,2-Dichloroethene

Concen: 25.97 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD02527

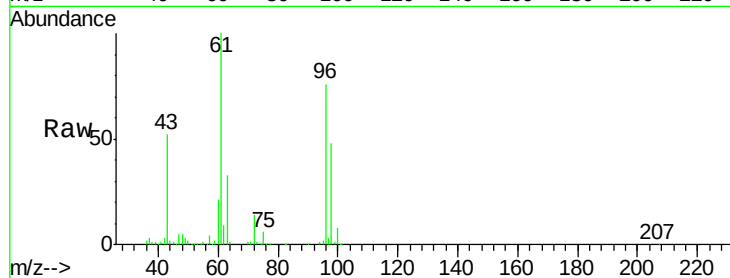
Tgt Ion: 96 Resp: 364897

Ion Ratio Lower Upper

96 100

61 130.8 94.1 174.7

98 62.5 44.9 83.3

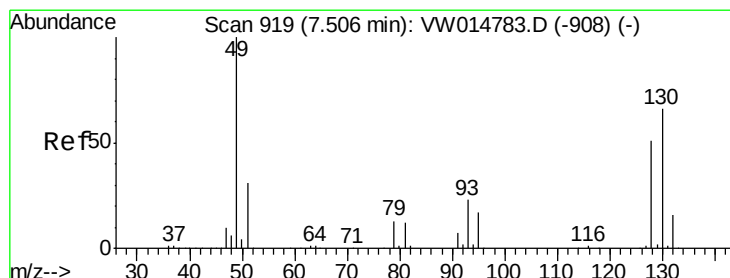
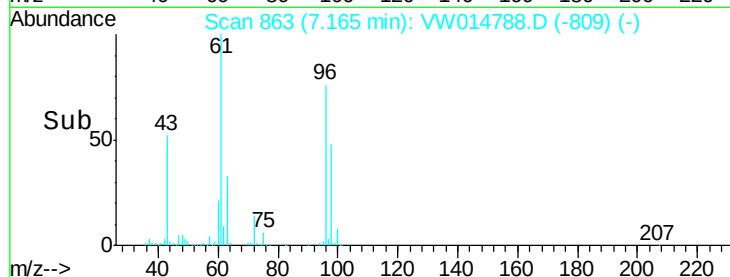
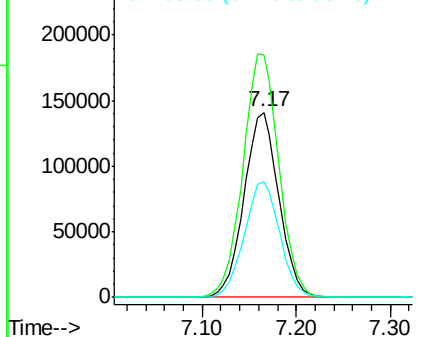


Abundance

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: 25.26 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Tgt Ion: 128 Resp: 155115

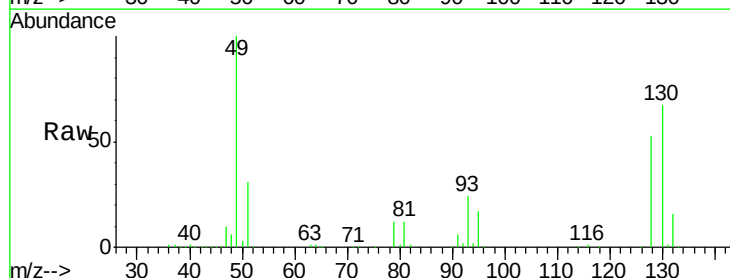
Ion Ratio Lower Upper

128 100

49 187.9 127.7 237.1

130 126.2 93.4 173.6

51 58.1 44.1 66.1



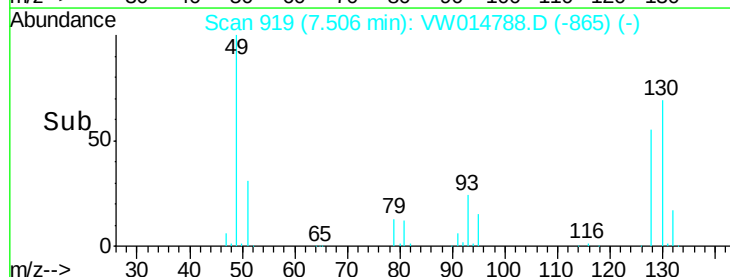
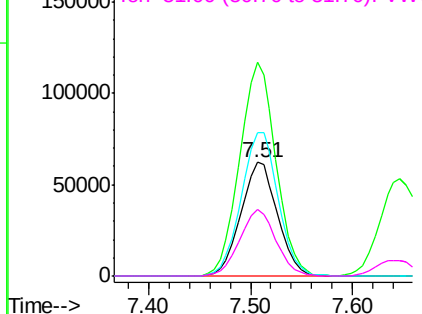
Abundance

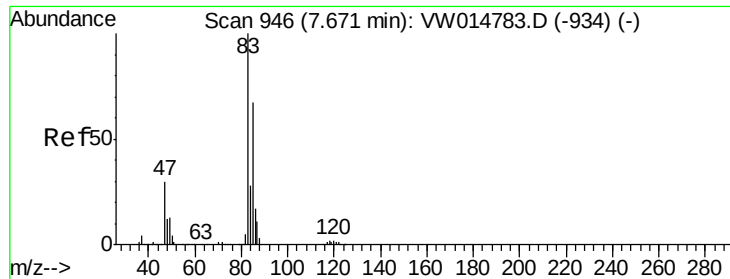
Ion 128.00 (127.70 to 128.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): VW

Ion 51.00 (50.70 to 51.70): VW

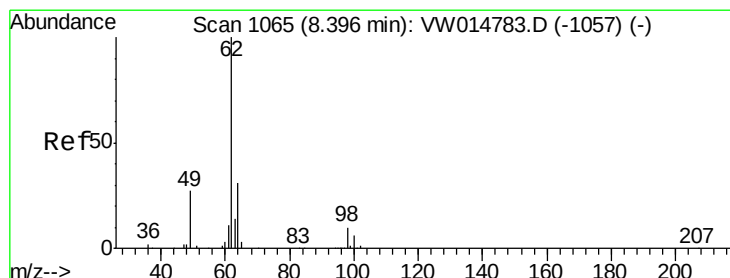
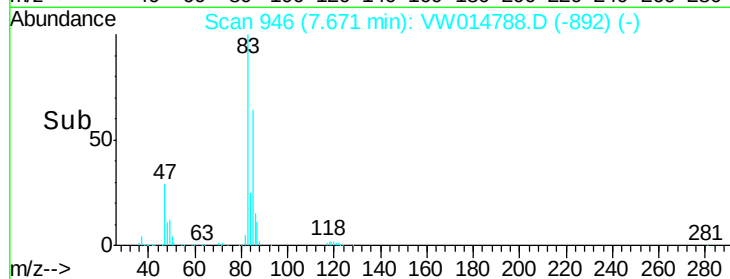
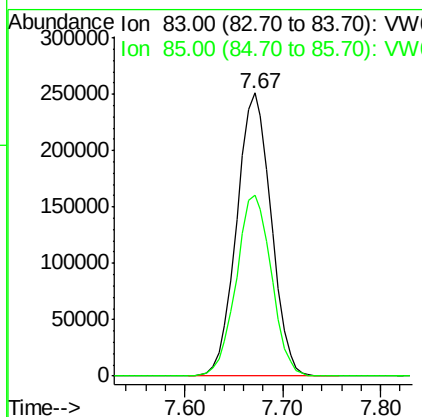
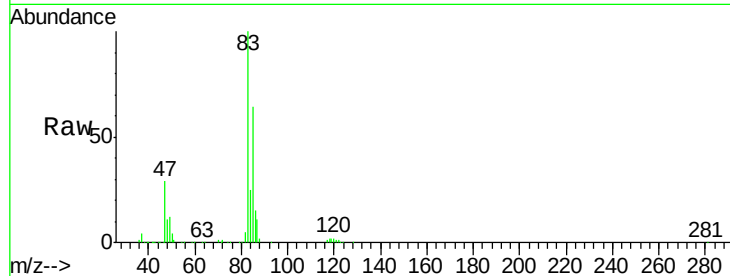




#25
Chloroform
Concen: 26.12 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

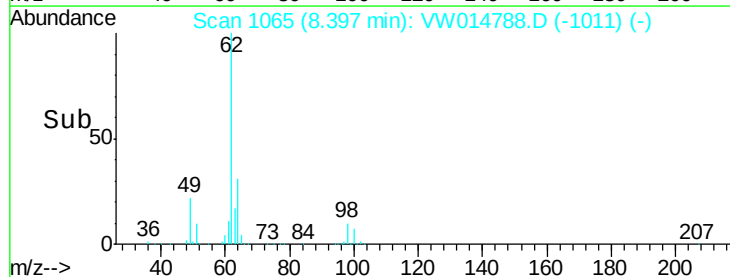
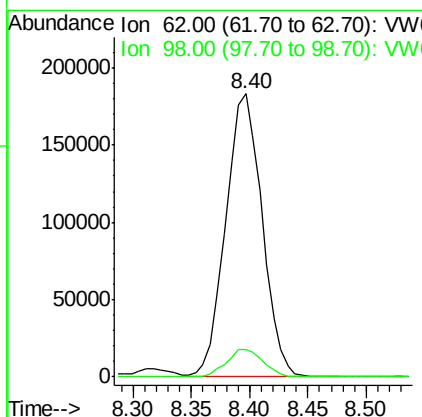
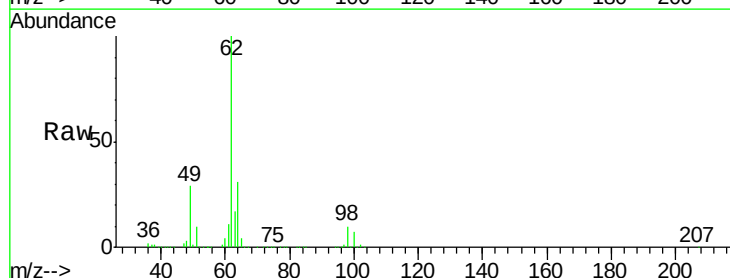
Instrument :
MSVOA_W
ClientSampleId :
VSTD02527

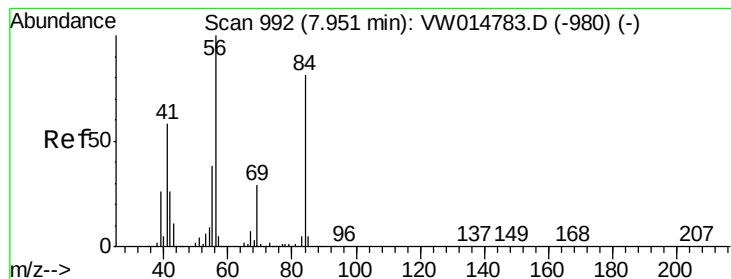
Tgt Ion: 83 Resp: 613374
Ion Ratio Lower Upper
83 100
85 65.3 46.0 85.4



#27
1,2-Dichloroethane
Concen: 25.70 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

Tgt Ion: 62 Resp: 398753
Ion Ratio Lower Upper
62 100
98 9.8 7.5 11.3





#30

Cyclohexane

Concen: 28.27 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampled :

VSTD02527

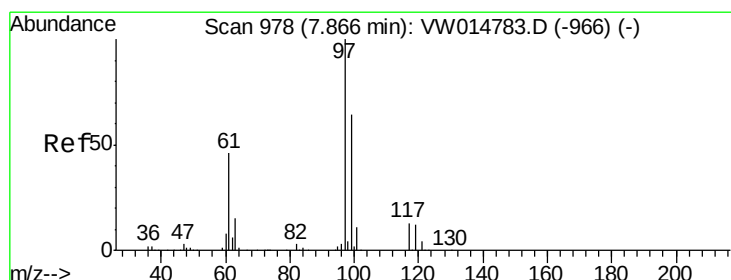
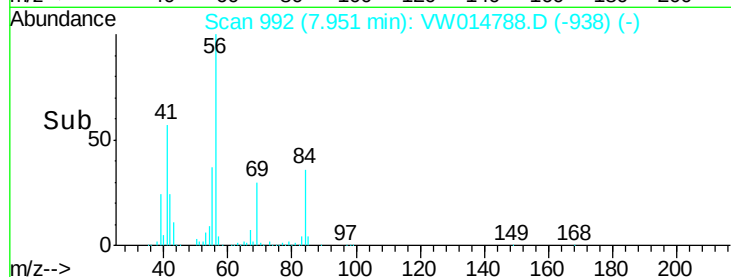
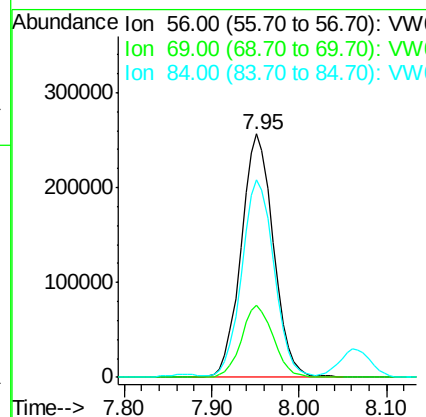
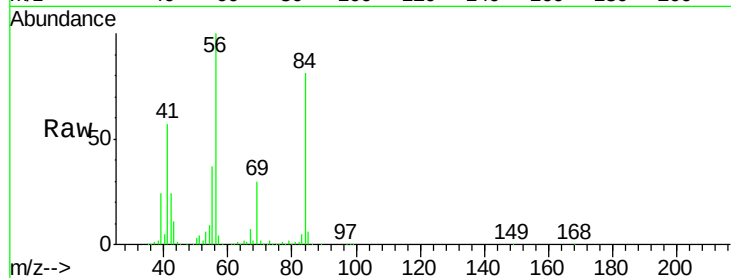
Tgt Ion: 56 Resp: 657112

Ion Ratio Lower Upper

56 100

69 29.5 23.8 35.6

84 81.3 64.8 97.2



#31

1,1,1-Trichloroethane

Concen: 26.56 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

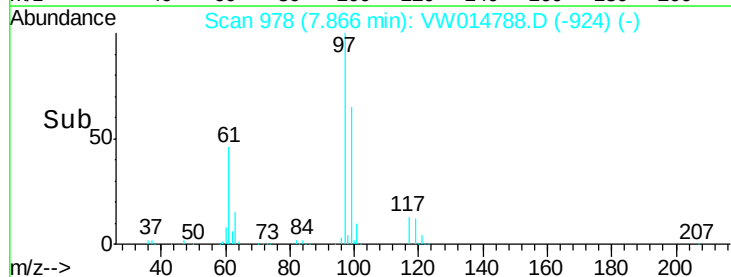
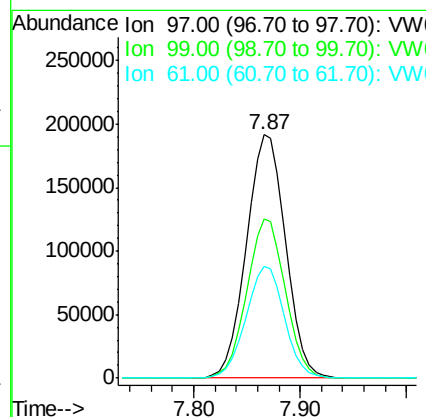
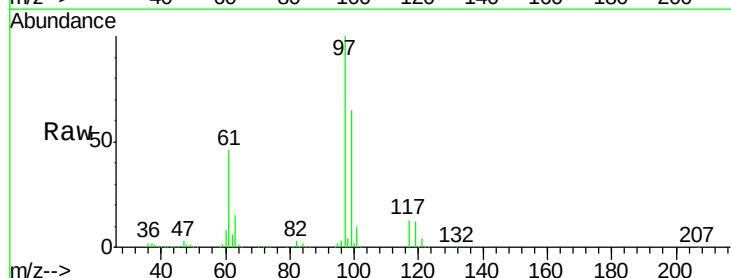
Tgt Ion: 97 Resp: 493679

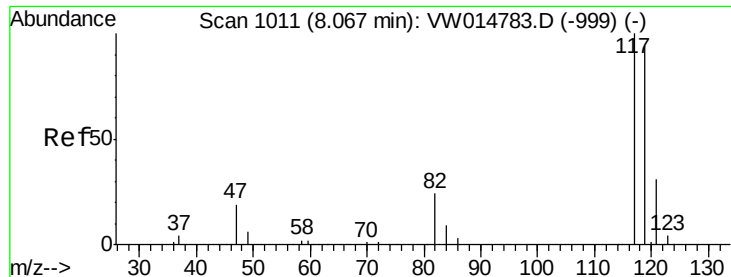
Ion Ratio Lower Upper

97 100

99 64.6 50.9 76.3

61 45.2 36.4 54.6





#32

Carbon tetrachloride

Concen: 26.28 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

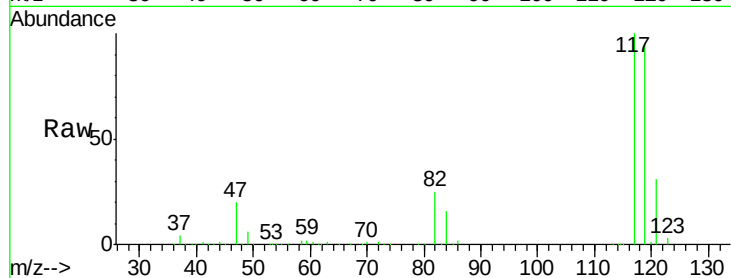
VSTD02527

Tgt Ion:117 Resp: 457702

Ion Ratio Lower Upper

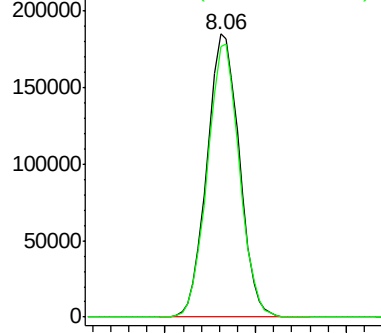
117 100

119 95.4 76.6 115.0

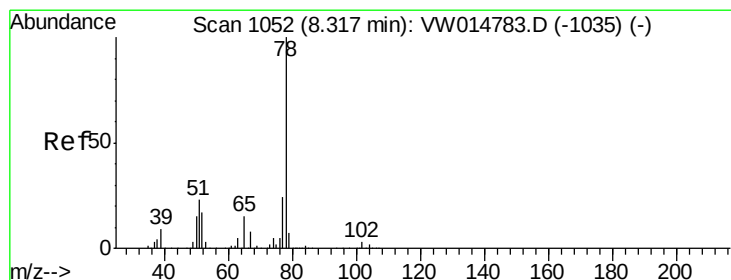
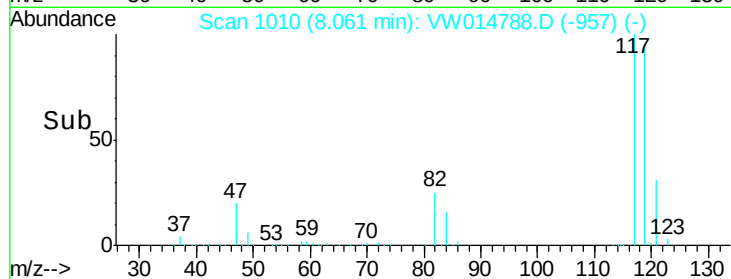


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#34

Benzene

Concen: 26.51 ug/L

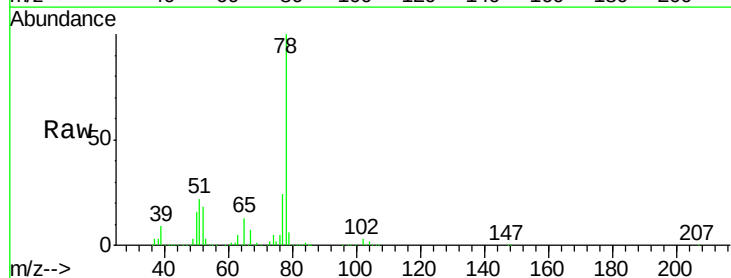
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

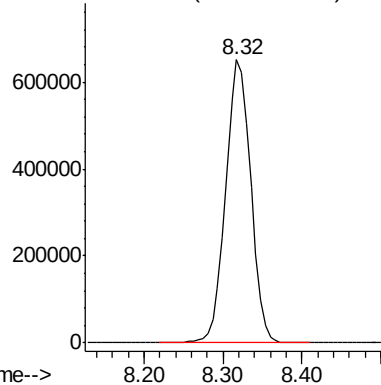
Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

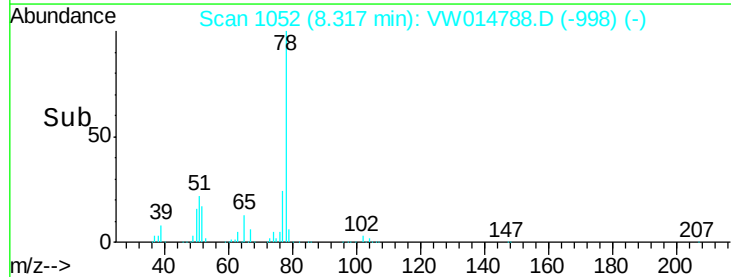
Tgt Ion: 78 Resp: 1445026

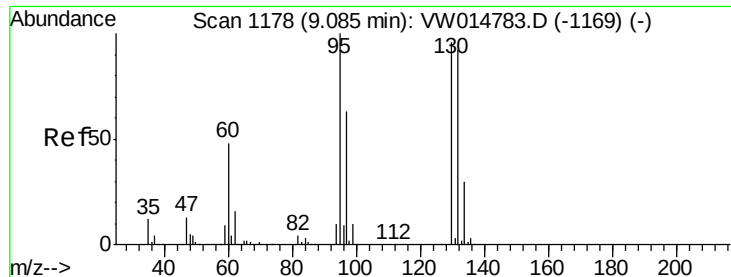


Abundance Ion 78.00 (77.70 to 78.70): VW



Time-->





#35

Trichloroethene

Concen: 26.15 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampled :

VSTD02527

Tgt Ion: 95 Resp: 362214

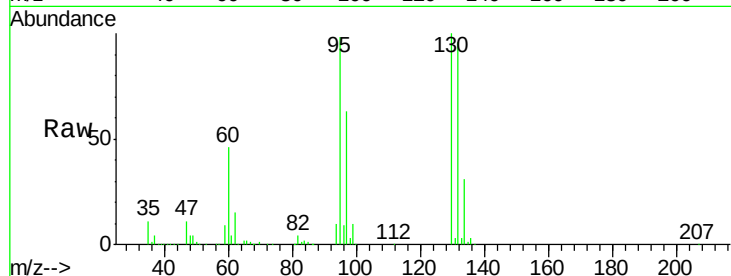
Ion Ratio Lower Upper

95 100

97 63.5 44.3 82.3

132 94.8 67.1 124.7

130 100.5 69.9 129.7

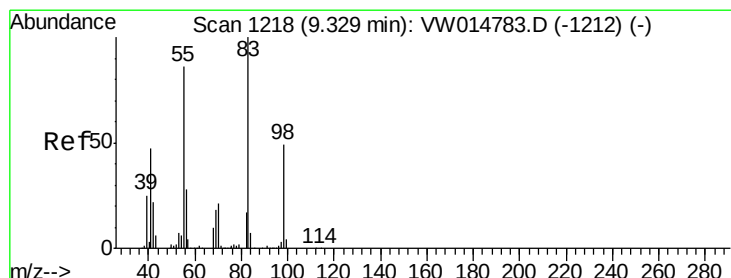
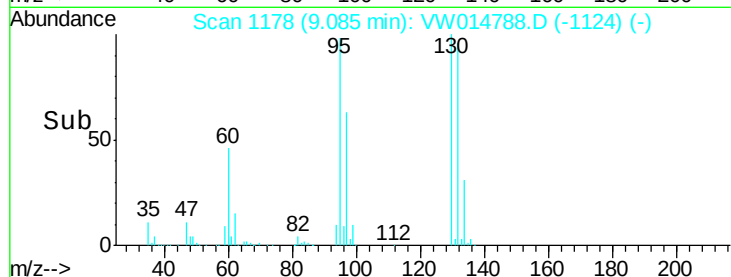
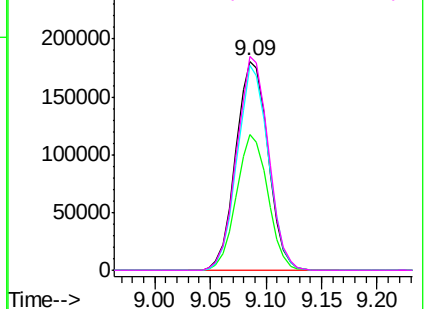


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 27.64 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

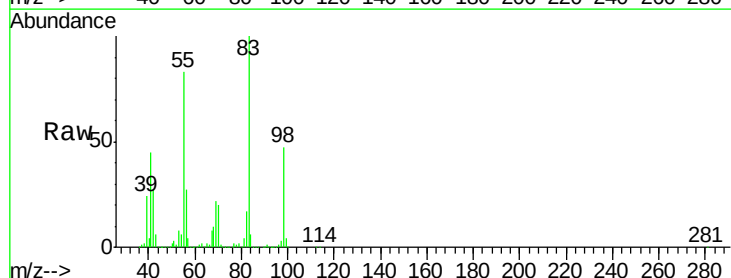
Tgt Ion: 83 Resp: 665909

Ion Ratio Lower Upper

83 100

55 81.1 65.6 98.4

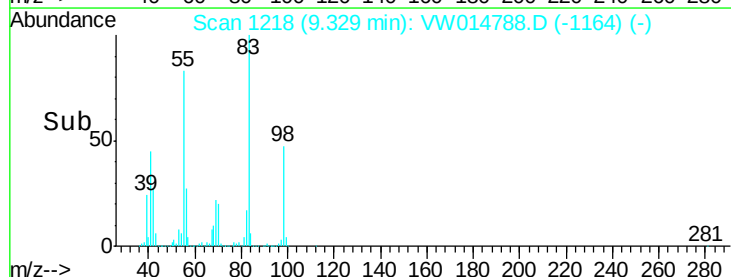
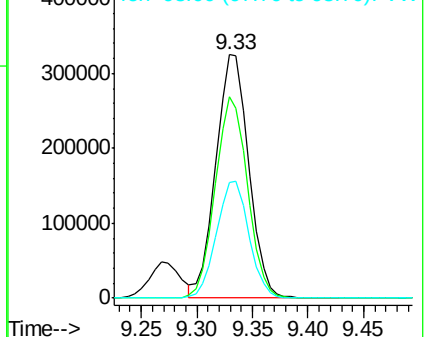
98 47.6 38.0 57.0

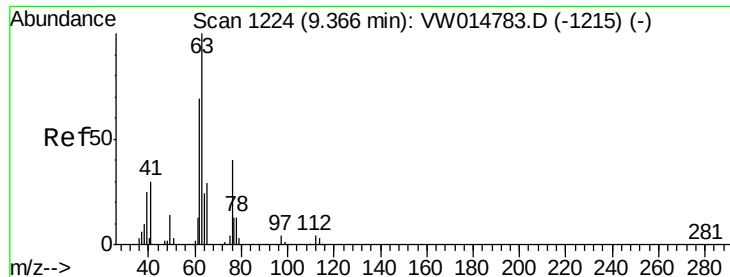


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 26.38 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

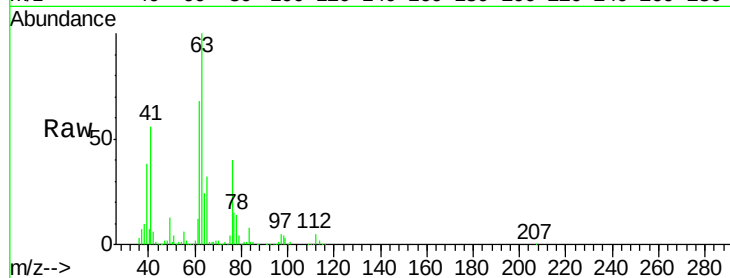
VSTD02527

Tgt Ion: 63 Resp: 364601

Ion Ratio Lower Upper

63 100

112 4.4 3.6 5.4



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V

9.37

200000

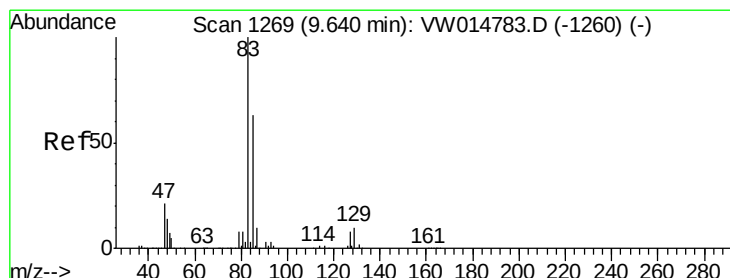
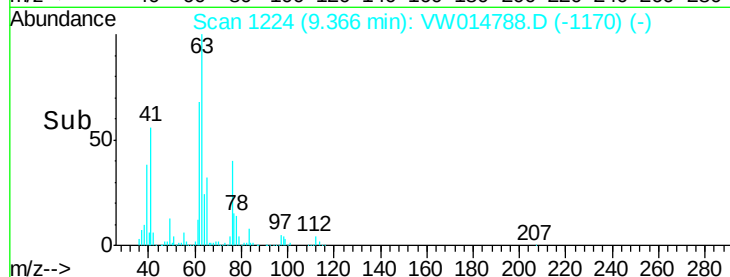
150000

100000

50000

0

Time--> 9.25 9.30 9.35 9.40 9.45



#41

Bromodichloromethane

Concen: 25.90 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

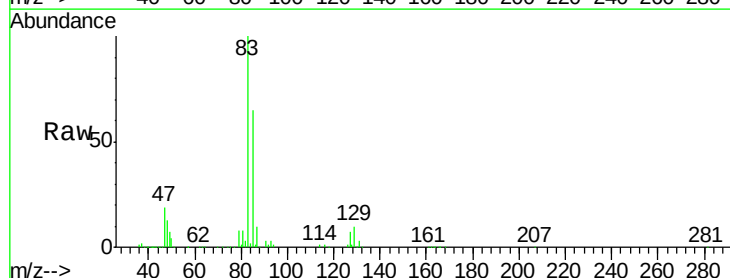
Tgt Ion: 83 Resp: 427783

Ion Ratio Lower Upper

83 100

85 64.8 45.7 84.9

127 7.3 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

9.64

300000

250000

200000

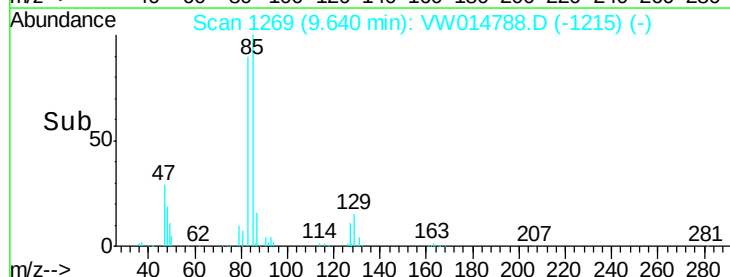
150000

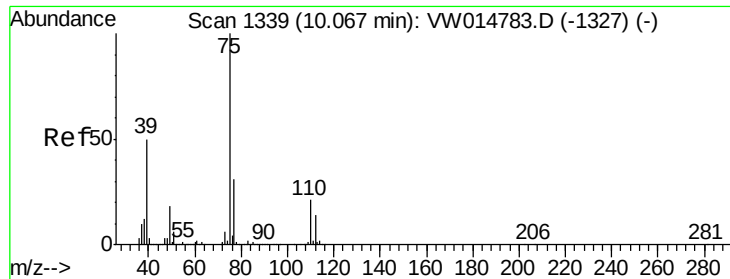
100000

50000

0

Time--> 9.55 9.60 9.65 9.70





#42

cis-1,3-Dichloropropene

Concen: 27.06 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

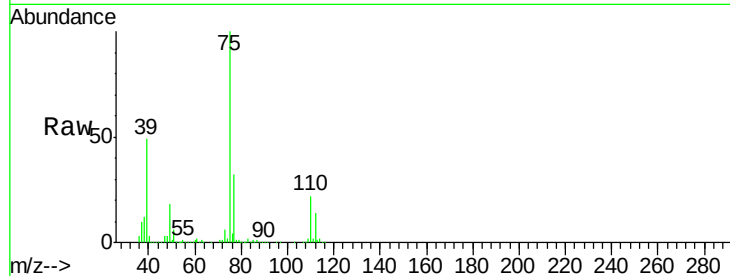
VSTD02527

Tgt Ion: 75 Resp: 546247

Ion Ratio Lower Upper

75 100

77 31.7 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

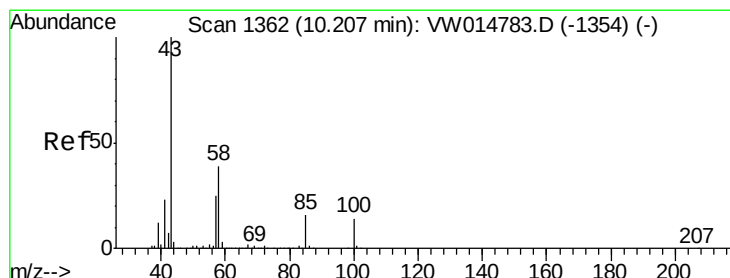
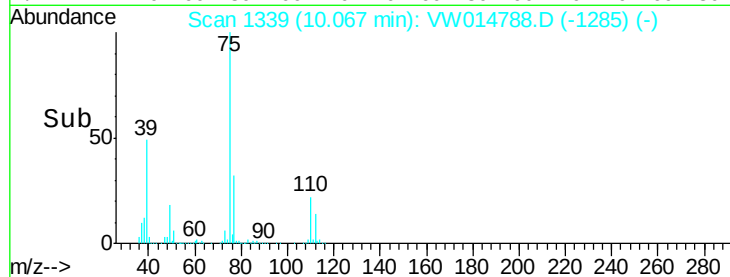
300000

200000

100000

0

Time--> 9.90 10.00 10.10 10.20



#43

4-Methyl-2-pentanone

Concen: 52.23 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

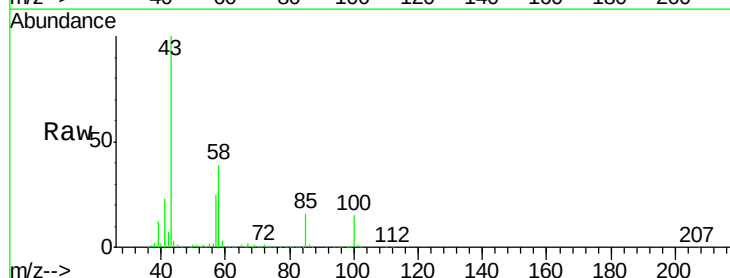
Tgt Ion: 43 Resp: 474566

Ion Ratio Lower Upper

43 100

58 38.9 30.9 46.3

100 14.8 11.8 17.6



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

600000

500000

400000

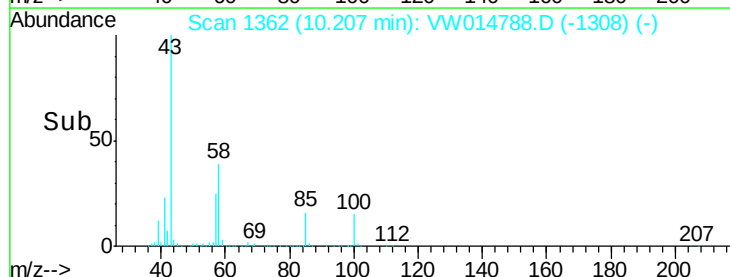
300000

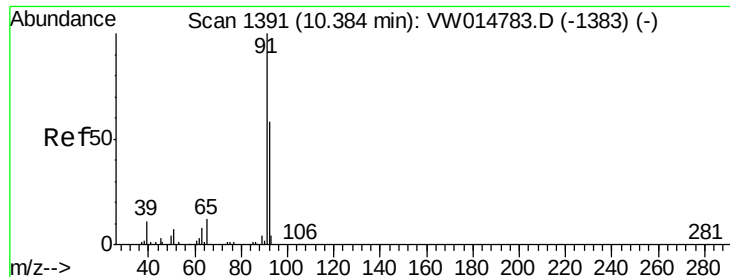
200000

100000

0

Time--> 10.10 10.20 10.30





#44

Toluene

Concen: 26.95 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

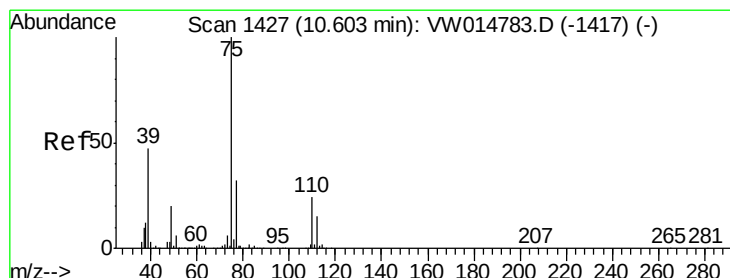
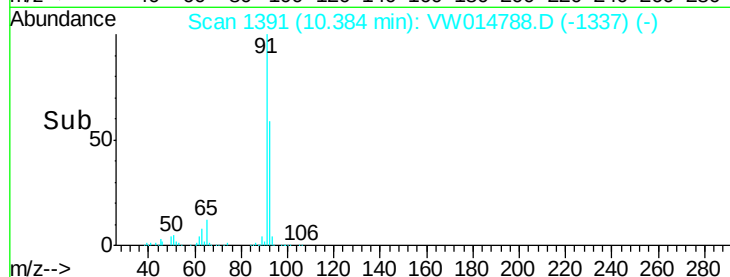
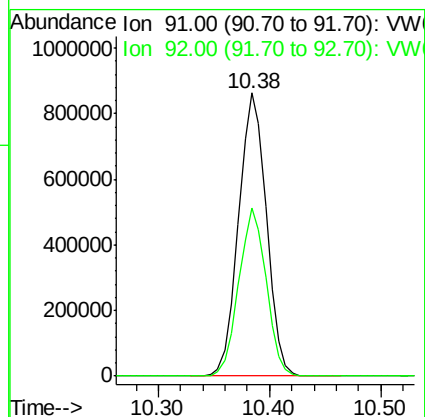
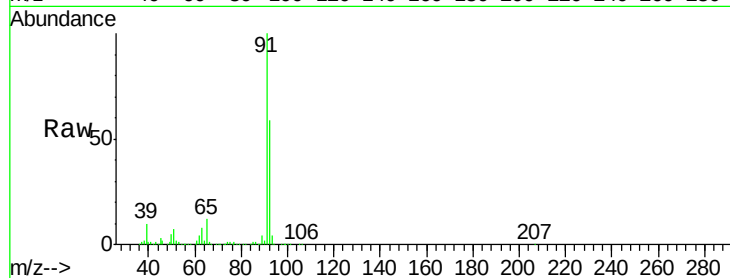
VSTD02527

Tgt Ion: 91 Resp: 1492892

Ion Ratio Lower Upper

91 100

92 59.4 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 26.54 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014788.D

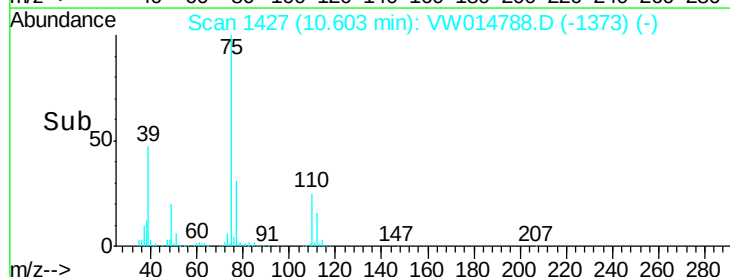
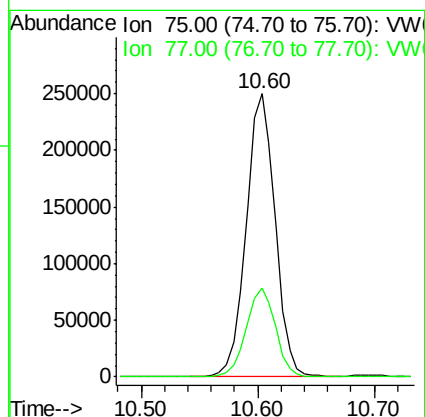
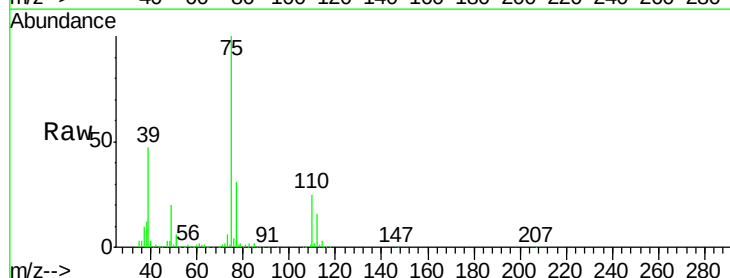
Acq: 28 Jan 2020 15:55

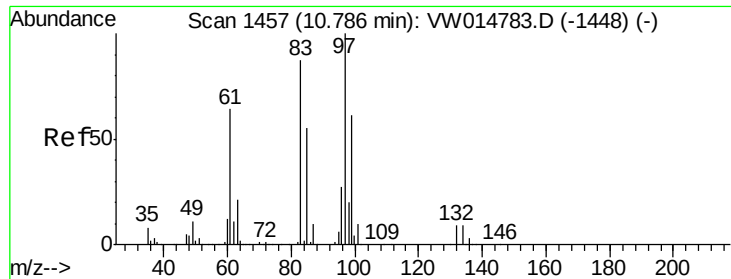
Tgt Ion: 75 Resp: 434822

Ion Ratio Lower Upper

75 100

77 31.4 21.6 40.0





#46

1,1,2-Trichloroethane

Concen: 25.80 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD02527

Tgt Ion: 97 Resp: 243347

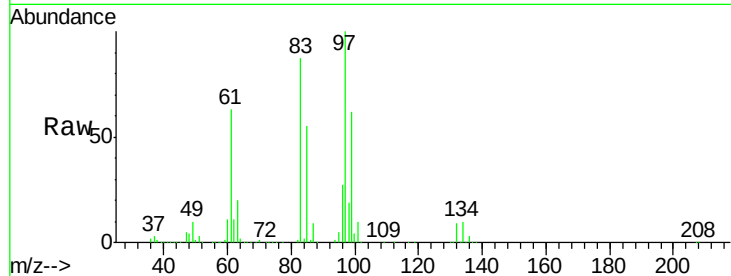
Ion Ratio Lower Upper

97 100

83 87.2 60.9 113.1

85 54.6 39.2 72.8

99 62.3 43.0 80.0



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

10.79

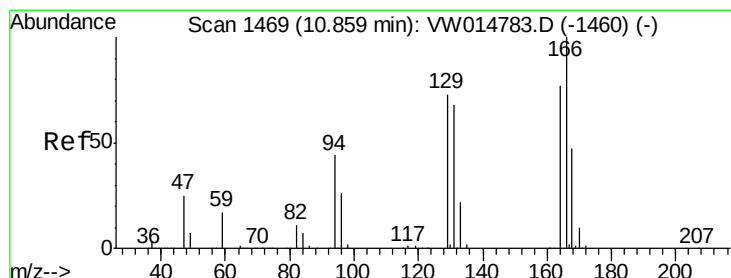
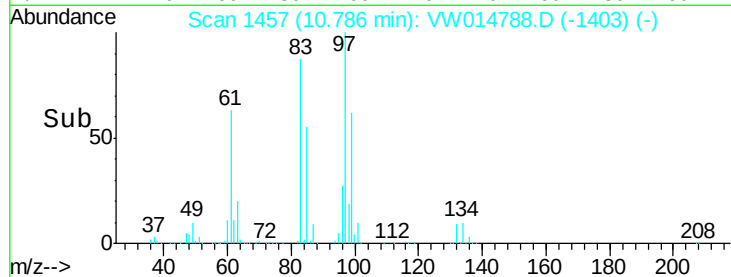
150000

100000

50000

0

Time-->



#47

Tetrachloroethene

Concen: 25.89 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Tgt Ion: 164 Resp: 286491

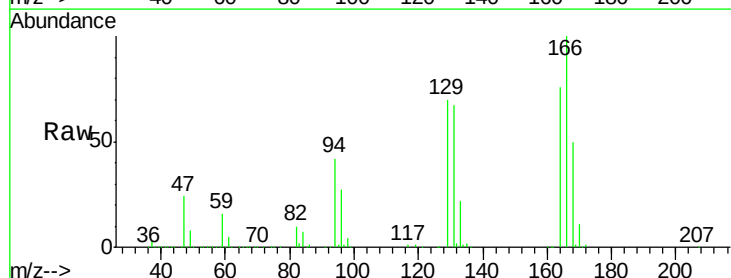
Ion Ratio Lower Upper

164 100

129 92.0 64.4 119.6

131 88.3 61.2 113.6

166 132.0 88.8 165.0



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

10.86

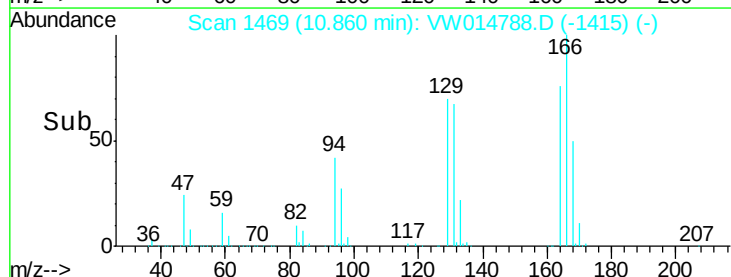
300000

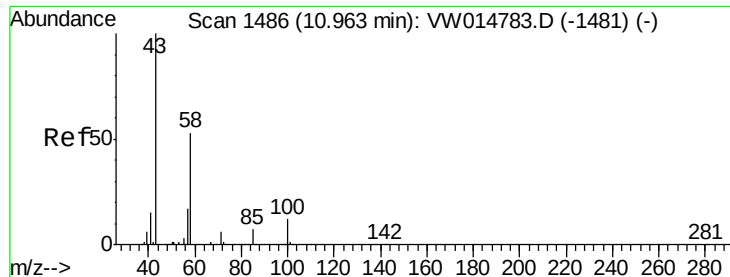
200000

100000

0

Time-->

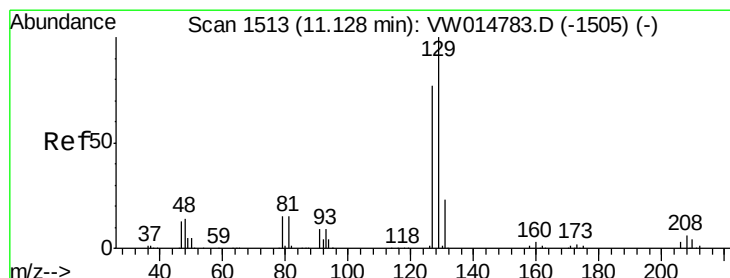
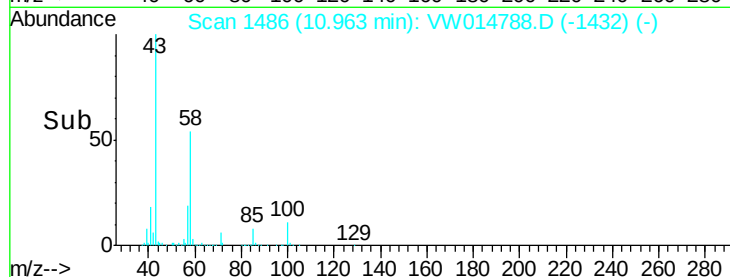
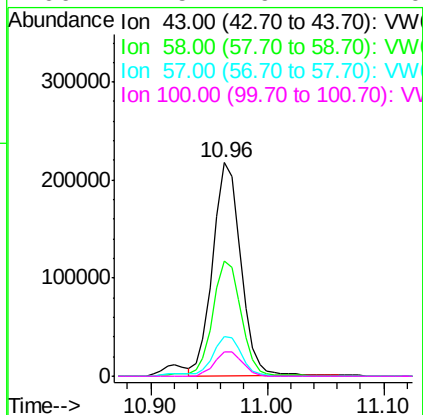
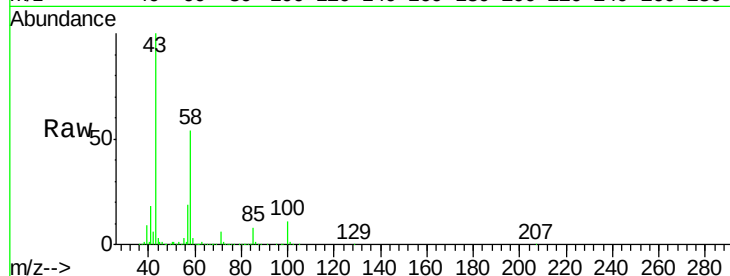




#49
2-Hexanone
Concen: 55.02 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

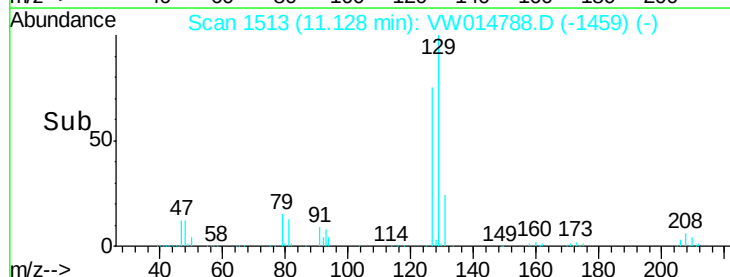
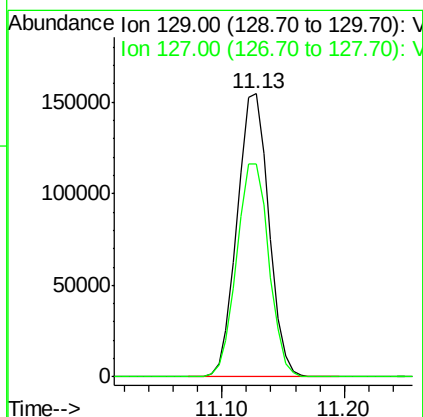
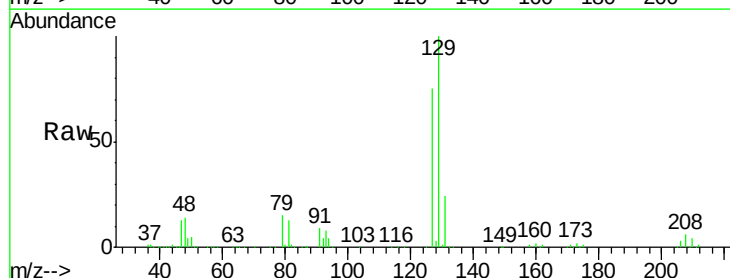
Instrument :
MSVOA_W
ClientSampleId :
VSTD02527

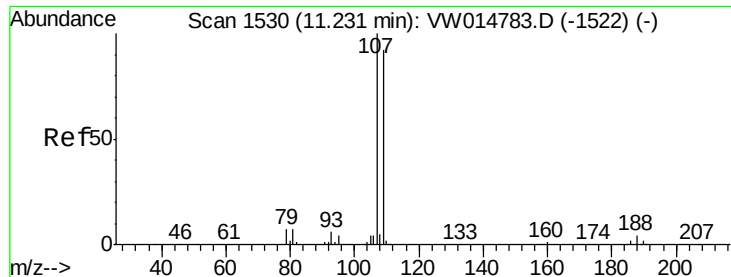
Tgt Ion: 43 Resp: 359429
Ion Ratio Lower Upper
43 100
58 53.7 43.2 64.8
57 18.7 14.7 22.1
100 11.5 9.4 14.0



#50
Dibromochloromethane
Concen: 25.83 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

Tgt Ion: 129 Resp: 278034
Ion Ratio Lower Upper
129 100
127 75.3 55.7 103.5

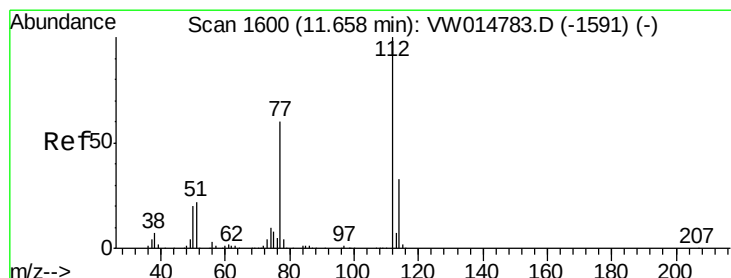
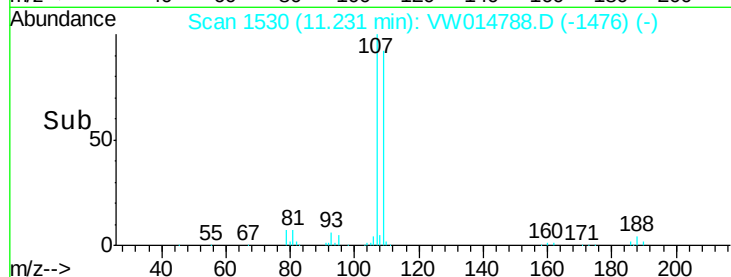
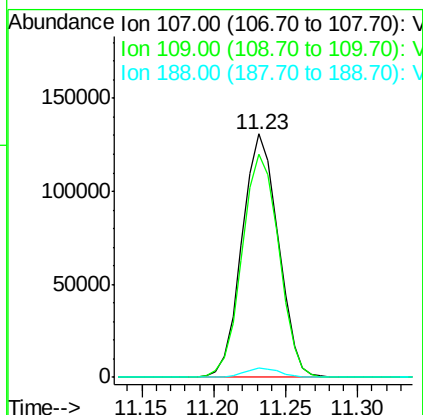
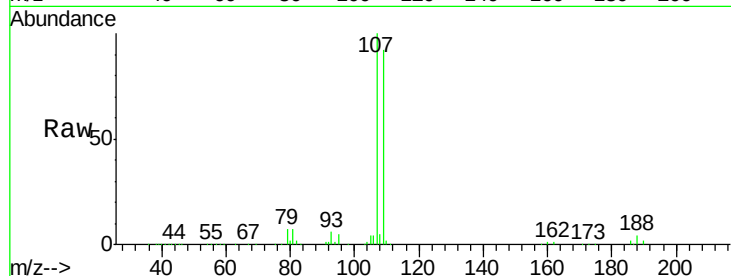




#51
 1,2-Dibromoethane
 Concen: 25.22 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

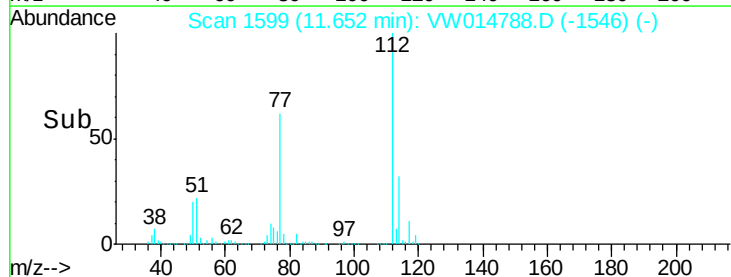
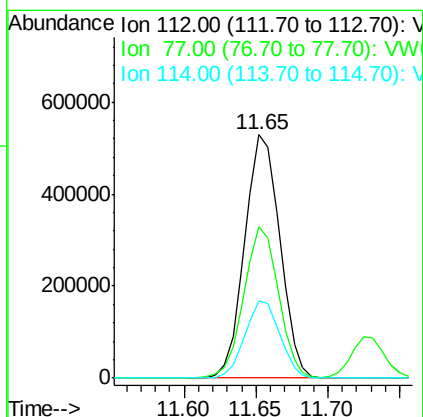
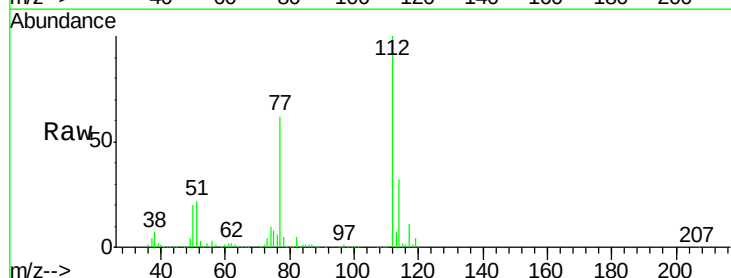
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02527

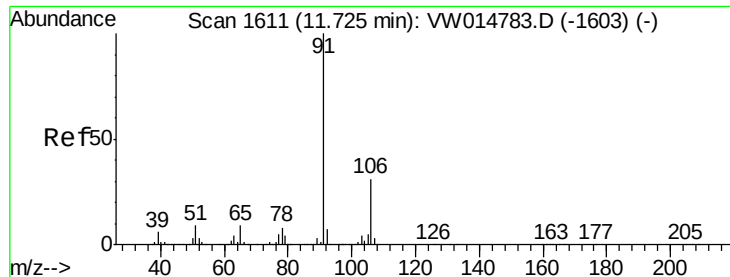
Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.5	66.6	123.8
188	3.9	3.0	4.6



#52
 Chlorobenzene
 Concen: 25.90 ug/L
 RT: 11.65 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

Tgt Ion	Ratio	Lower	Upper
112	100		
77	62.3	49.2	73.8
114	31.8	22.5	41.7

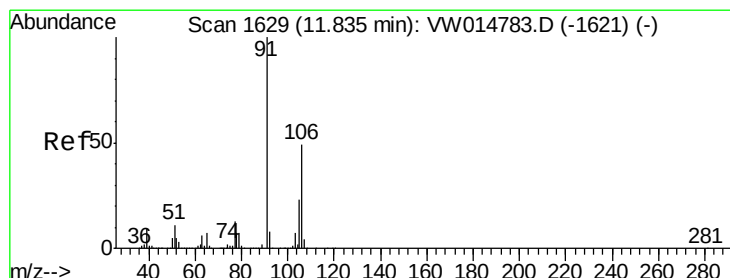
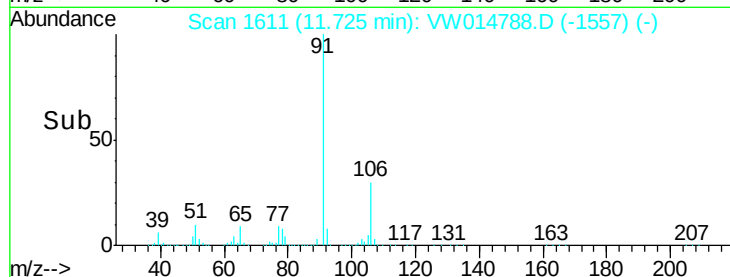
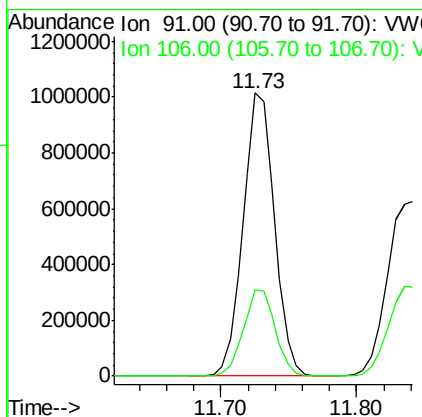
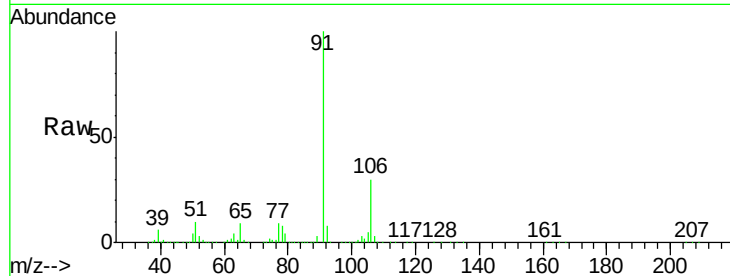




#53
Ethylbenzene
Concen: 27.08 ug/L
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

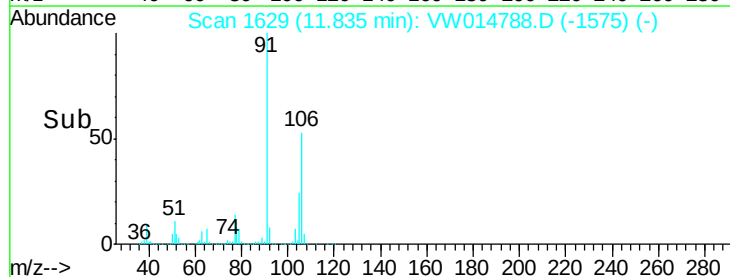
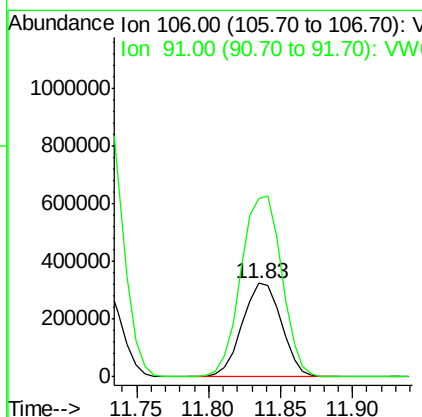
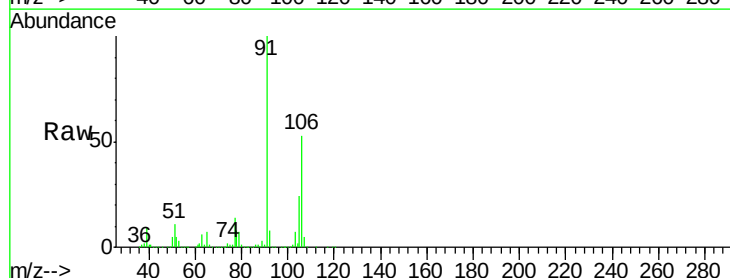
Instrument :
MSVOA_W
ClientSampleId :
VSTD02527

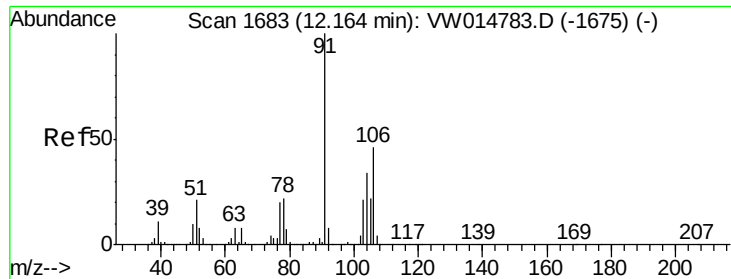
Tgt Ion: 91 Resp: 1639162
Ion Ratio Lower Upper
91 100
106 30.4 21.1 39.3



#54
m,p-Xylene
Concen: 27.20 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

Tgt Ion: 106 Resp: 615430
Ion Ratio Lower Upper
106 100
91 190.1 146.2 271.6

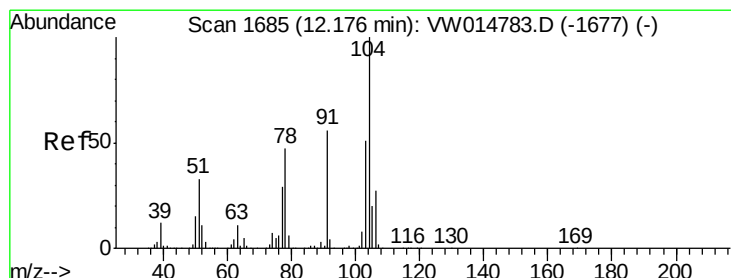
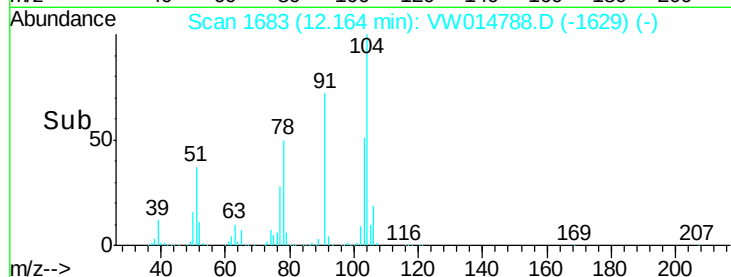
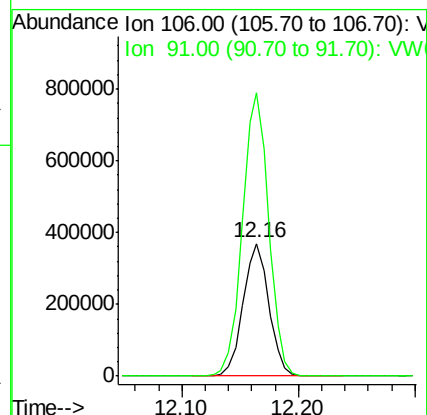
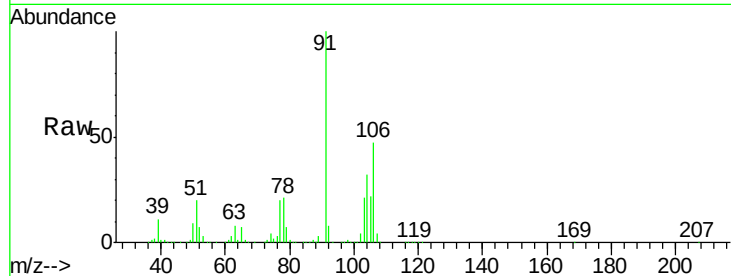




#55
o-xylene
Concen: 26.87 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

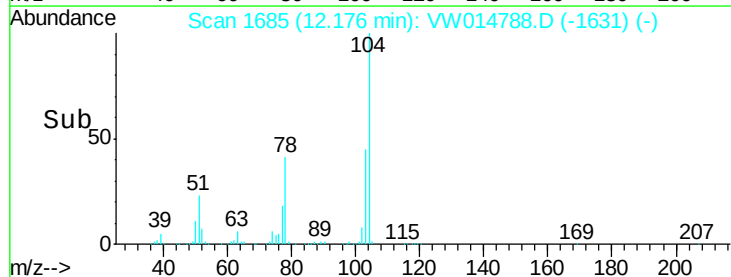
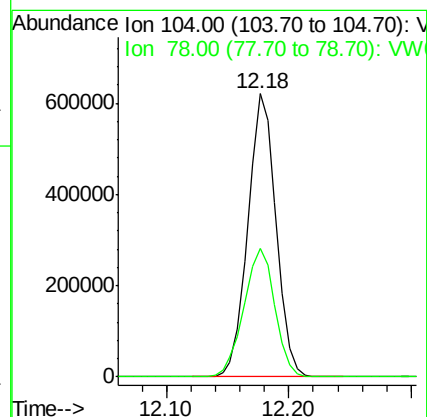
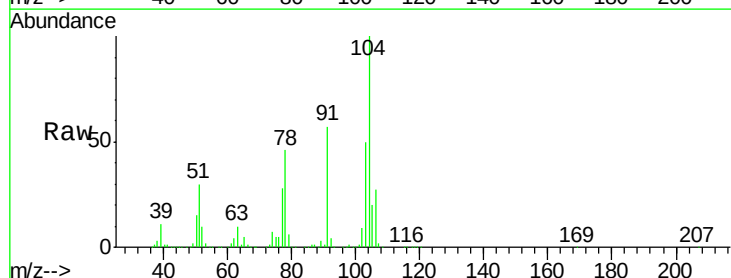
Instrument :
MSVOA_W
ClientSampled :
VSTD02527

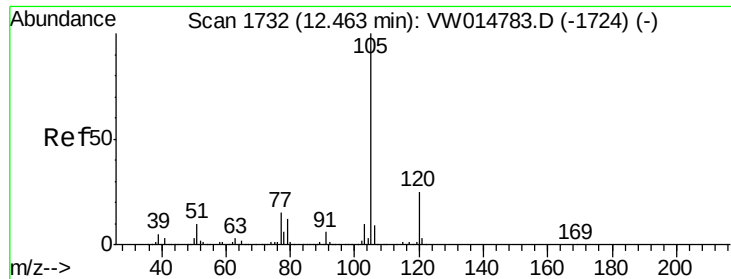
Tgt Ion:106 Resp: 570522
Ion Ratio Lower Upper
106 100
91 213.4 148.7 276.1



#56
Styrene
Concen: 27.53 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW014788.D
Acq: 28 Jan 2020 15:55

Tgt Ion:104 Resp: 991466
Ion Ratio Lower Upper
104 100
78 45.6 32.0 59.4





#57

Isopropylbenzene

Concen: 27.24 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD02527

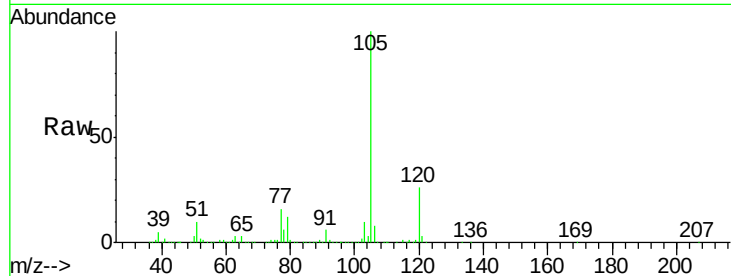
Tgt Ion: 105 Resp: 1566333

Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7

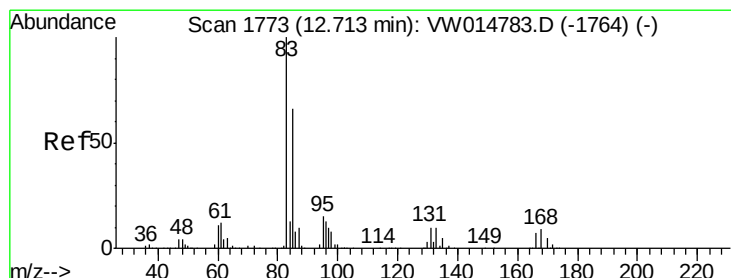
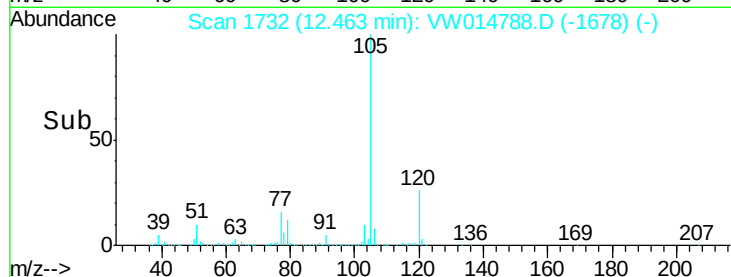
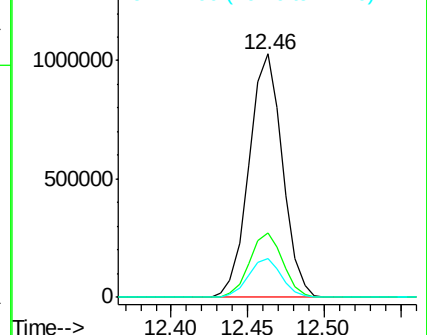
77 15.9 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.60 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

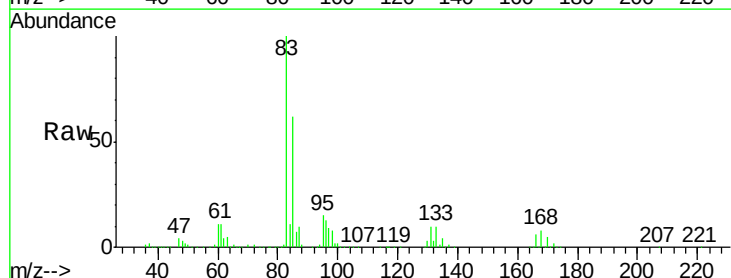
Tgt Ion: 83 Resp: 299018

Ion Ratio Lower Upper

83 100

85 62.5 45.0 83.6

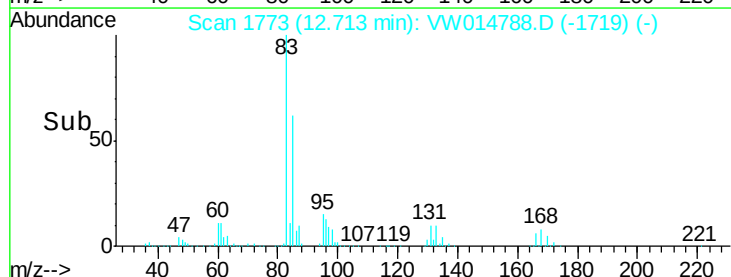
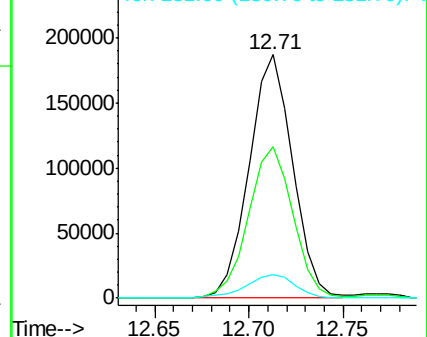
131 9.8 7.6 11.4

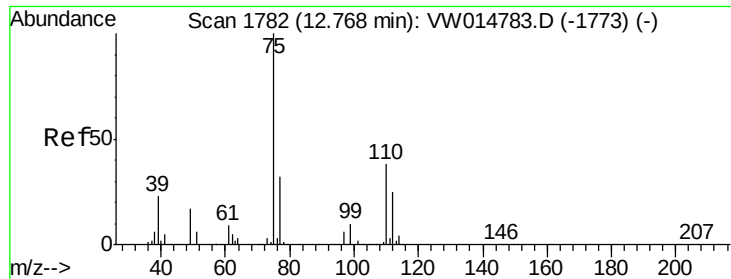


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.58 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

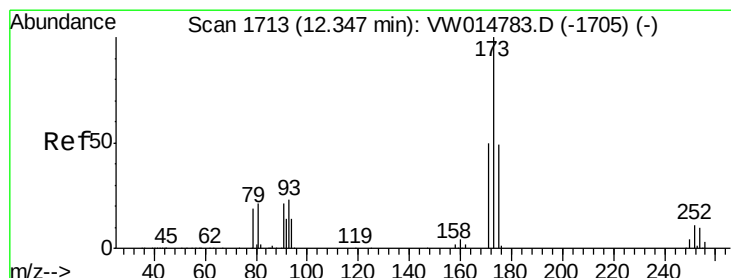
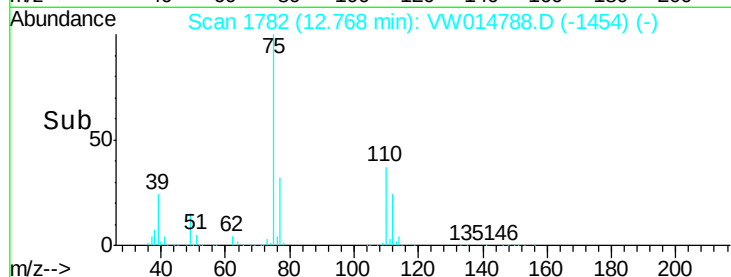
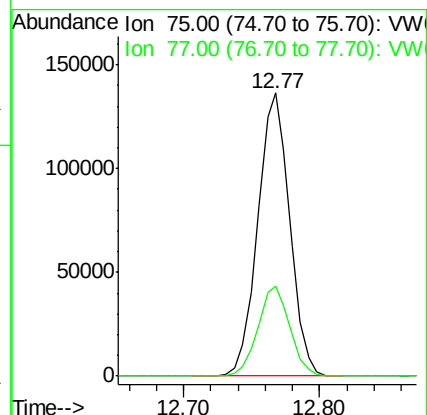
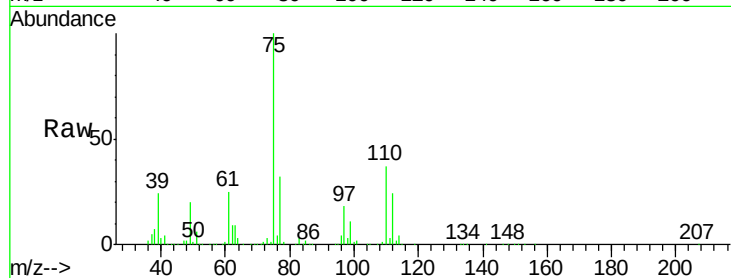
VSTD02527

Tgt Ion: 75 Resp: 224423

Ion Ratio Lower Upper

75 100

77 31.6 25.8 38.8



#62

Bromoform

Concen: 24.65 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

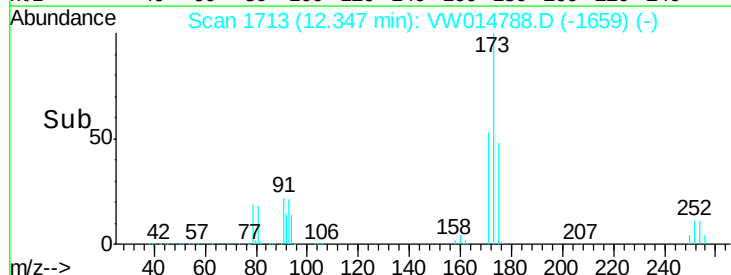
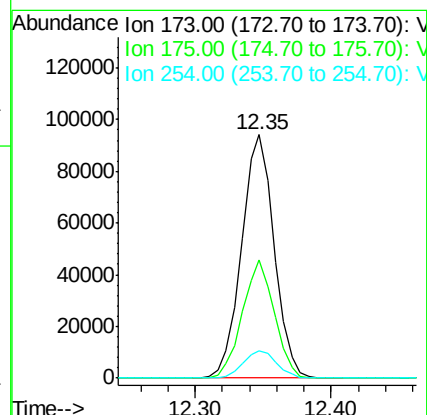
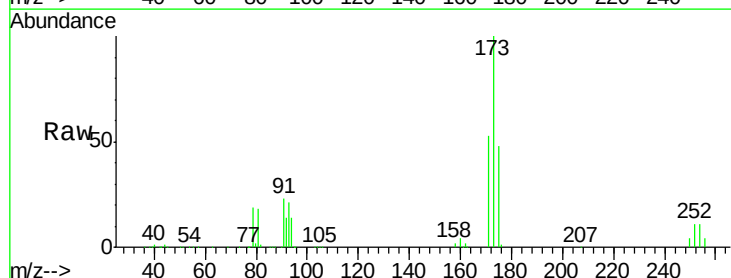
Tgt Ion: 173 Resp: 157027

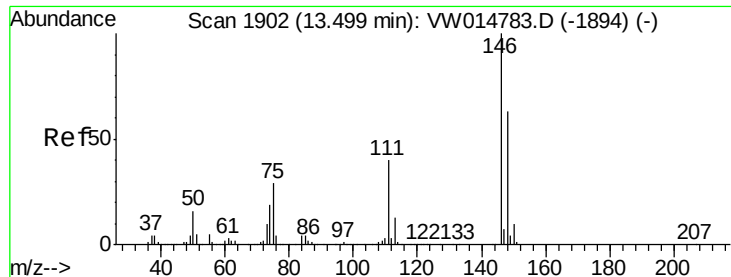
Ion Ratio Lower Upper

173 100

175 47.8 39.8 59.8

254 11.5 8.9 13.3

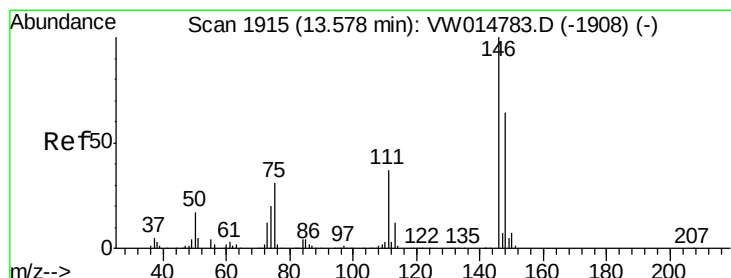
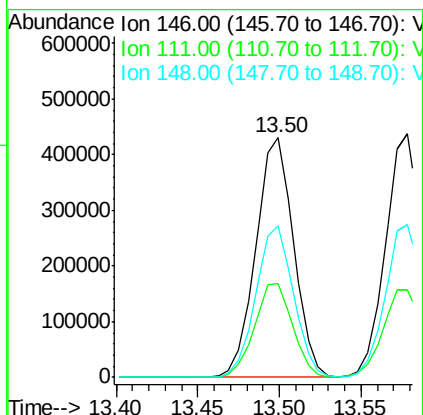
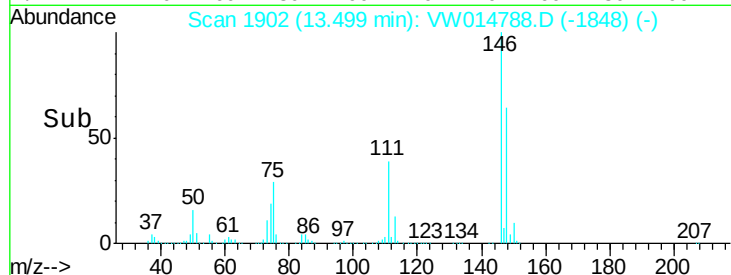
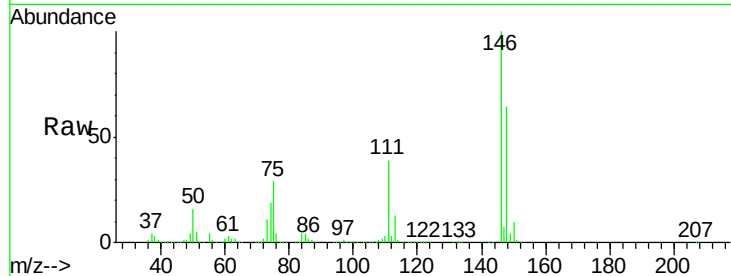




#63
 1,3-Dichlorobenzene
 Concen: 26.34 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

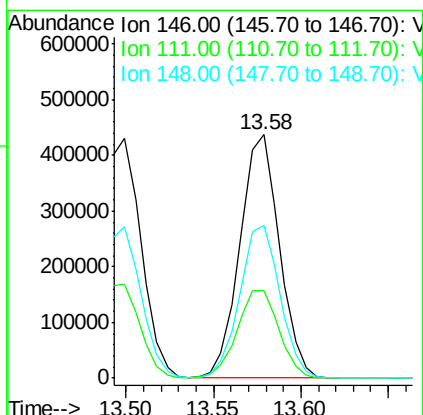
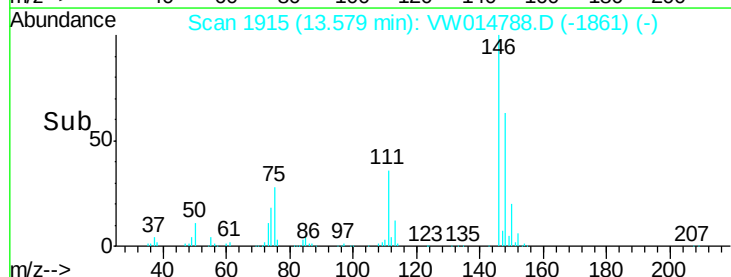
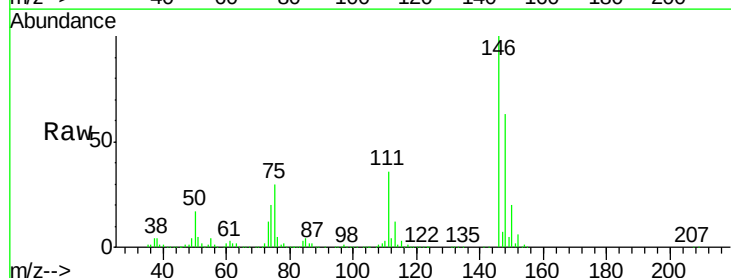
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02527

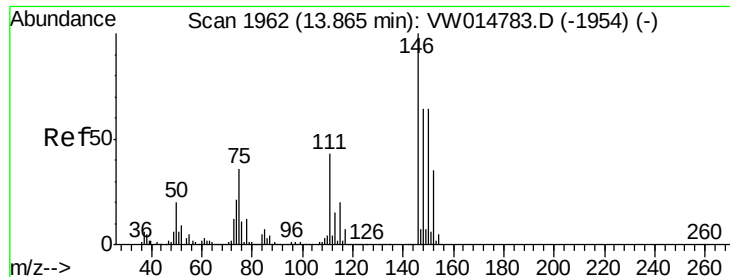
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	27.1	50.3
148	63.5	44.5	82.7



#64
 1,4-Dichlorobenzene
 Concen: 26.13 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.1	26.4	49.0
148	62.6	43.9	81.5

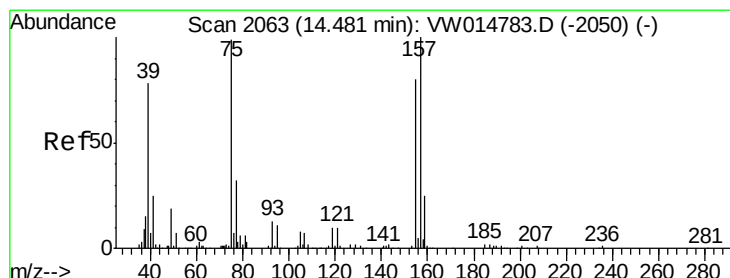
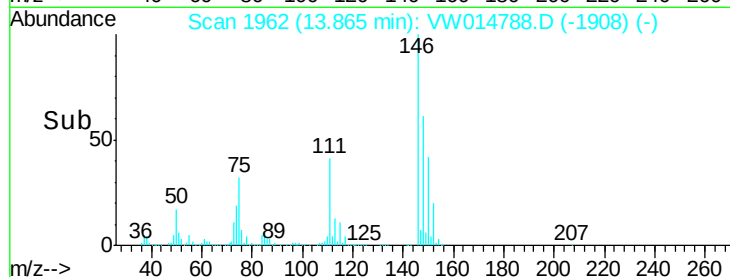
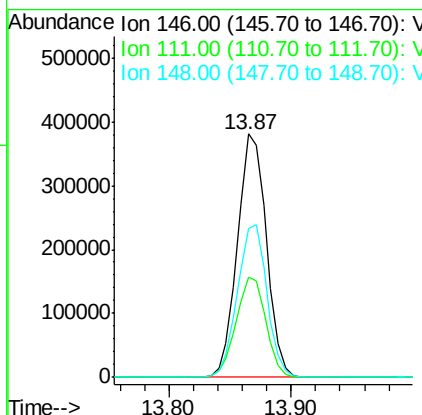
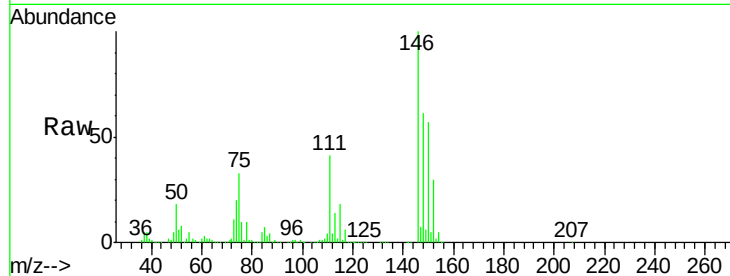




#65
 1,2-Dichlorobenzene
 Concen: 26.22 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

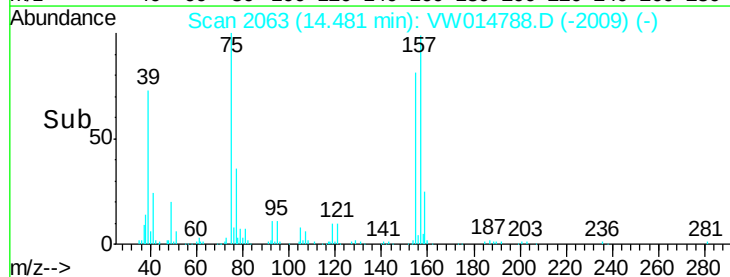
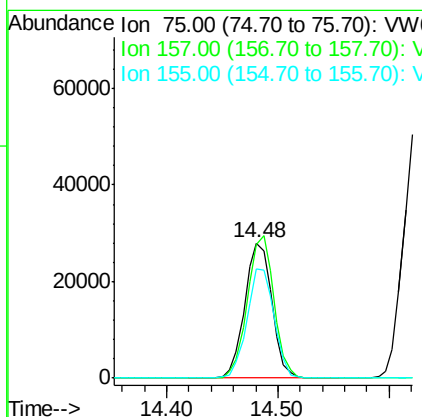
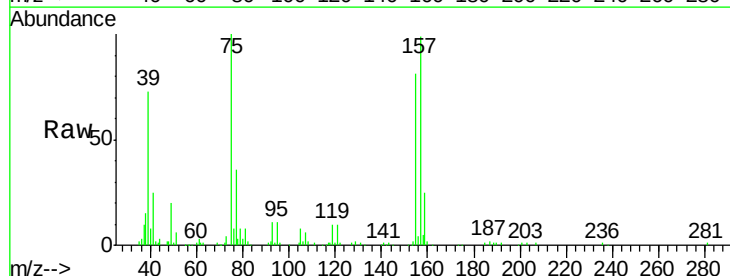
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02527

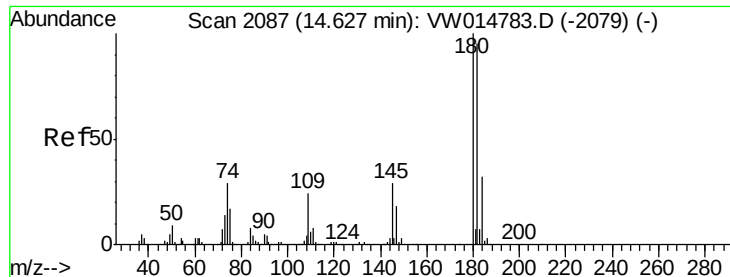
Tgt Ion:146 Resp: 624824
 Ion Ratio Lower Upper
 146 100
 111 41.2 33.4 50.2
 148 61.0 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.35 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

Tgt Ion: 75 Resp: 47588
 Ion Ratio Lower Upper
 75 100
 157 98.6 84.9 127.3
 155 80.7 67.1 100.7

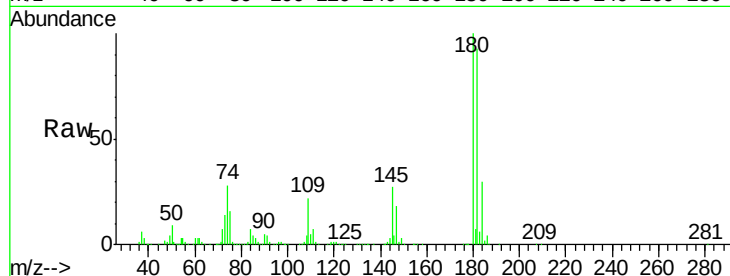




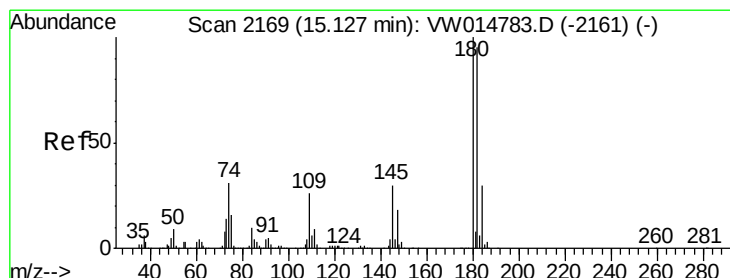
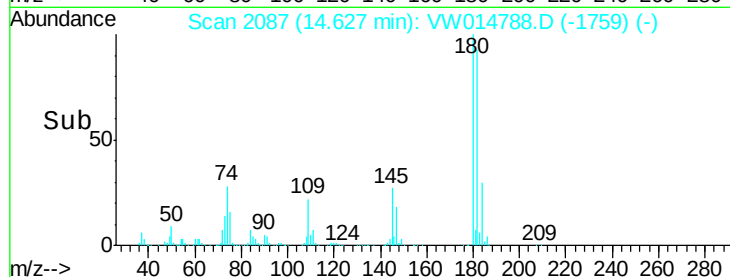
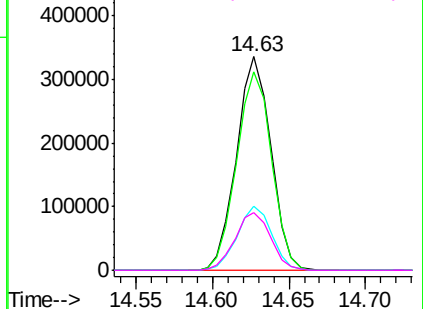
#67
 1,3,5-Trichlorobenzene
 Concen: 27.05 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02527

Tgt Ion:	180	Resp:	525006
Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.2	114.4
184	29.9	24.2	36.4
145	28.0	22.8	34.2

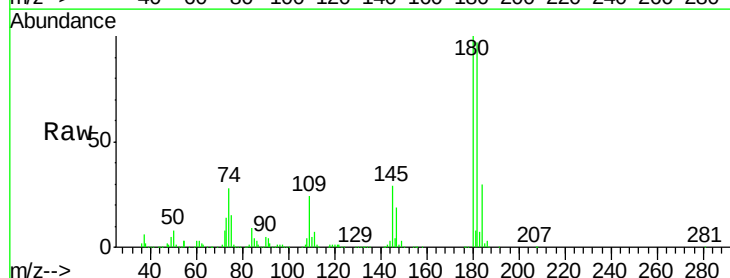


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

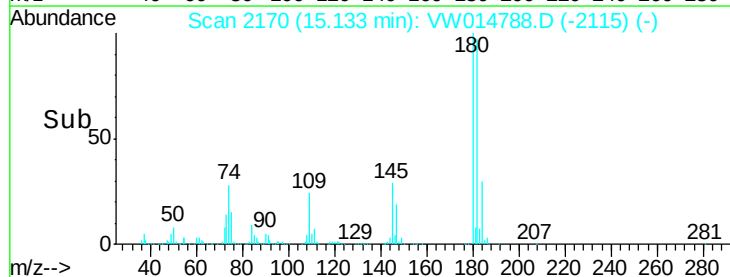
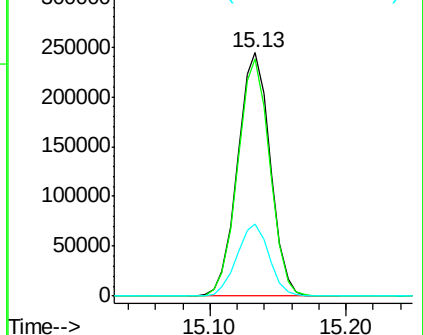


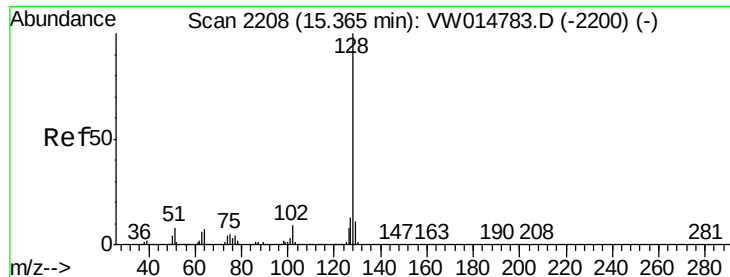
#68
 1,2,4-trichlorobenzene
 Concen: 28.23 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.01 min
 Lab File: VW014788.D
 Acq: 28 Jan 2020 15:55

Tgt Ion:	180	Resp:	406656
Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.2	115.8
145	29.4	23.3	34.9



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





#69

Naphthalene

Concen: 28.94 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD02527

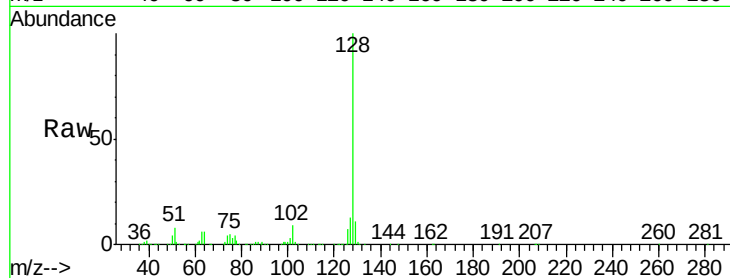
Tgt Ion:128 Resp: 753802

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

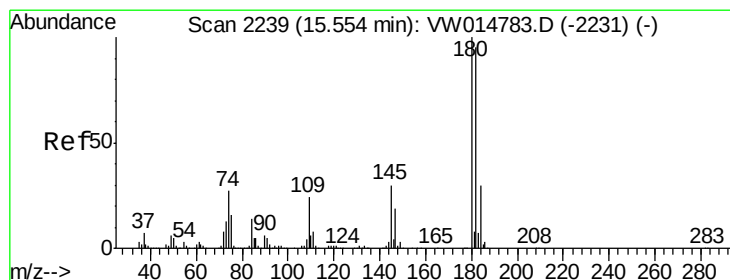
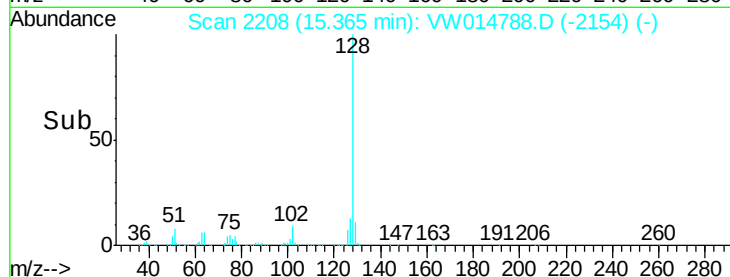
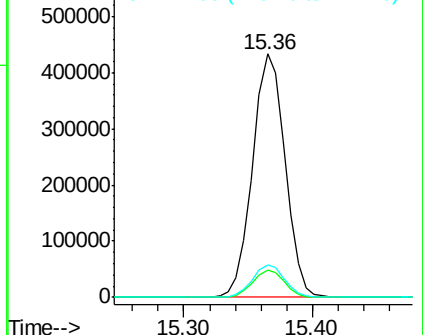
127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.79 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014788.D

Acq: 28 Jan 2020 15:55

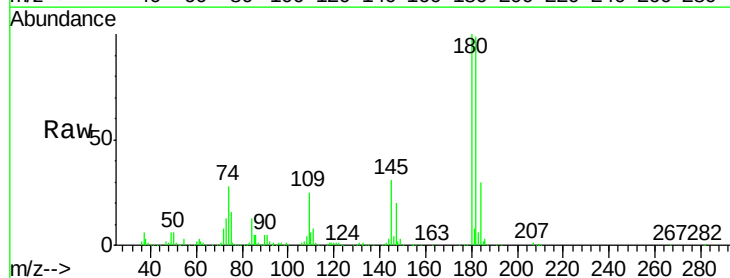
Tgt Ion:180 Resp: 366920

Ion Ratio Lower Upper

180 100

182 95.1 75.8 113.6

145 31.6 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

