

Data File : VW008967.D
Acq On : 04 Mar 2019 15:25
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

Quant Time: Mar 05 05:40:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022019S.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 05 05:37:38 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	417877	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	423285	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	229631	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	159045	24.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.88%
7) Chloroethane-d5	2.88	69	151945	26.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.12%
10) 1,1-Dichloroethene-d2	4.02	63	266824	24.68	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.72%
20) 2-Butanone-d5	7.08	46	91959	47.44	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.88%
24) Chloroform-d	7.65	84	257515	25.48	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.92%
26) 1,2-Dichloroethane-d4	8.31	65	162313	27.22	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	108.88%
29) Benzene-d6	8.27	84	558485	27.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	109.92%
33) 1,2-Dichloropropane-d6	9.27	67	162601	27.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	109.24%
37) Toluene-d8	10.32	98	578341	28.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	113.68%
38) trans-1,3-Dichloropropene-	10.58	79	78018	26.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.60%
39) 2-Hexanone-d5	10.93	63	82197	50.68	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.36%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	155762	26.06	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.24%
61) 1,2-Dichlorobenzene-d4	13.86	152	232196	28.37	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	113.48%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	202941	25.281 ug/L	95
3) Chloromethane	2.21	50	197046	23.747 ug/L	93
5) Vinyl chloride	2.35	62	201438	23.679 ug/L	98
6) Bromomethane	2.77	94	131860	23.376 ug/L	100
8) Chloroethane	2.92	64	135857	23.851 ug/L	97
9) Trichlorofluoromethane	3.26	101	243397	23.926 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	143372	23.863 ug/L	98
12) 1,1-Dichloroethene	4.04	96	122850	23.569 ug/L	94
13) Acetone	4.13	43	81255	44.183 ug/L	96
14) Carbon disulfide	4.38	76	450769	25.026 ug/L	99
15) Methyl Acetate	4.67	43	71637	19.530 ug/L	95
16) Methylene chloride	4.92	84	168712	24.968 ug/L	88
17) Methyl tert-butyl Ether	5.43	73	323615	22.077 ug/L	98
18) trans-1,2-Dichloroethene	5.43	96	136747	23.829 ug/L	95
19) 1,1-Dichloroethane	6.22	63	238441	24.471 ug/L	98
21) 2-Butanone	7.17	43	101051	39.269 ug/L	96
22) cis-1,2-Dichloroethene	7.17	96	144049	23.404 ug/L	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	7.51	128	66935	23.768	ug/L #	89
25) Chloroform	7.68	83	275585	26.868	ug/L	99
27) 1,2-Dichloroethane	8.40	62	178960	23.991	ug/L #	93
30) Cyclohexane	7.95	56	234475	23.534	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	235503	24.100	ug/L	97
32) Carbon tetrachloride	8.07	117	214766	24.048	ug/L	98
34) Benzene	8.32	78	566618	24.675	ug/L	100
35) Trichloroethene	9.09	95	147991	23.877	ug/L	96
36) Methylcyclohexane	9.34	83	260413	23.678	ug/L	96
40) 1,2-Dichloropropane	9.37	63	139194	24.538	ug/L	99
41) Bromodichloromethane	9.65	83	187054	24.252	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	221588	24.082	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	212297	41.442	ug/L	96
44) Toluene	10.39	91	665118	25.195	ug/L	95
45) trans-1,3-Dichloropropene	10.60	75	197202	24.001	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	106645	22.486	ug/L	98
47) Tetrachloroethene	10.86	164	140088	24.827	ug/L	93
49) 2-Hexanone	10.97	43	172845	43.015	ug/L #	90
50) Dibromochloromethane	11.13	129	135683	23.599	ug/L	98
51) 1,2-Dibromoethane	11.24	107	104294	21.740	ug/L	95
52) Chlorobenzene	11.66	112	435343	24.502	ug/L	96
53) Ethylbenzene	11.73	91	767332	25.016	ug/L	100
54) m,p-Xylene	11.84	106	304166	25.217	ug/L	91
55) o-xylene	12.16	106	285331	24.590	ug/L	97
56) Styrene	12.18	104	483289	24.834	ug/L	95
57) Isopropylbenzene	12.47	105	761156	24.590	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	140846	22.136	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	101712	21.620	ug/L	99
62) Bromoform	12.35	173	82417	23.182	ug/L #	98
63) 1,3-Dichlorobenzene	13.50	146	368117	24.561	ug/L	96
64) 1,4-Dichlorobenzene	13.58	146	372295	24.451	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	347931	25.063	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.49	75	26826	21.763	ug/L	99
67) 1,3,5-Trichlorobenzene	14.63	180	281415	23.848	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	235030	23.123	ug/L	96
69) Naphthalene	15.37	128	425035	20.312	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	215386	23.060	ug/L	97

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

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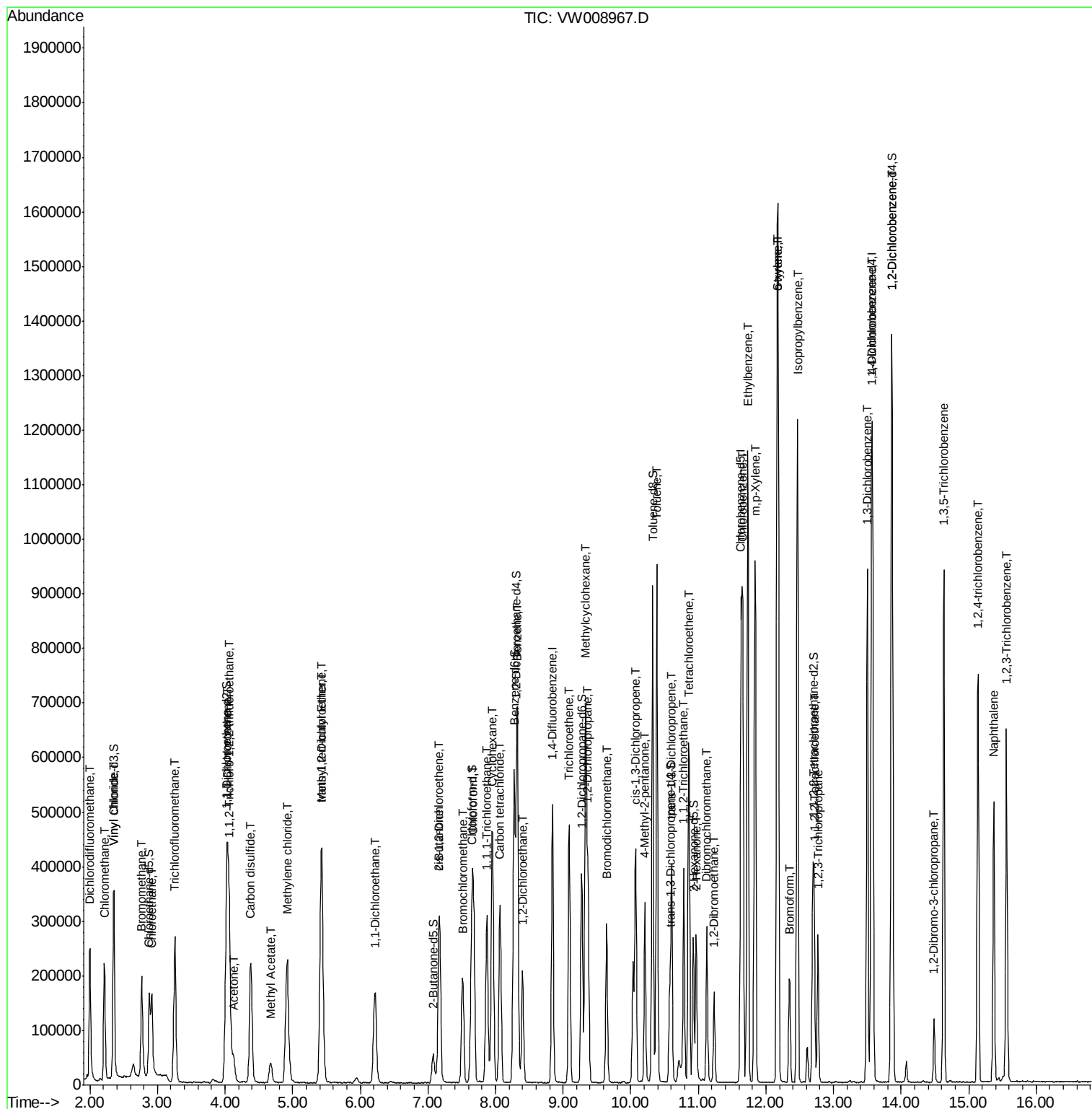
Quant Time: Mar 05 05:40:51 2019

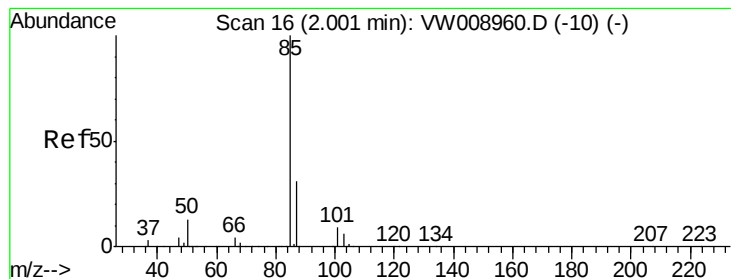
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022019S.M

Quant Title : VOC Analysis

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#2

Dichlorodifluoromethane

Concen: 25.281 ug/L

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

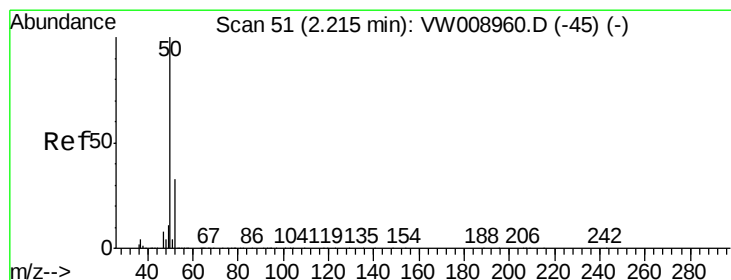
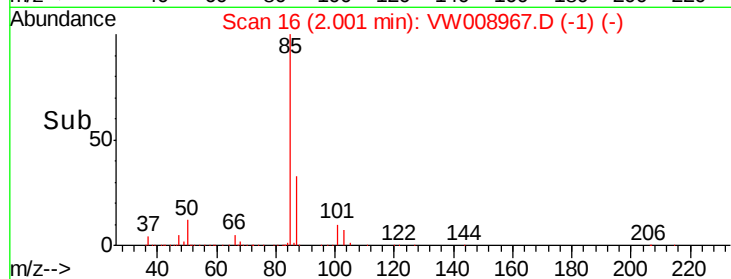
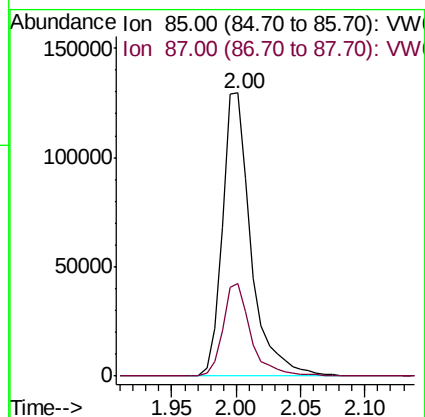
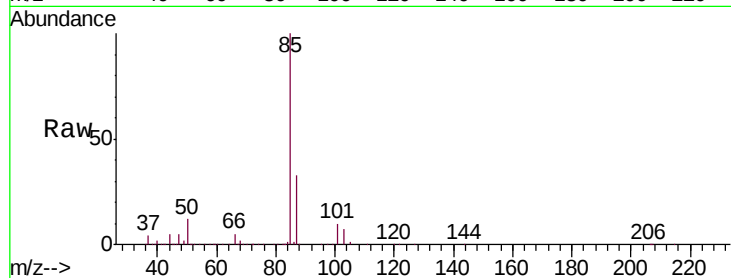
VSTD02508

Tgt Ion: 85 Resp: 202941

Ion Ratio Lower Upper

85 100

87 31.9 20.6 38.4



#3

Chloromethane

Concen: 23.747 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW008967.D

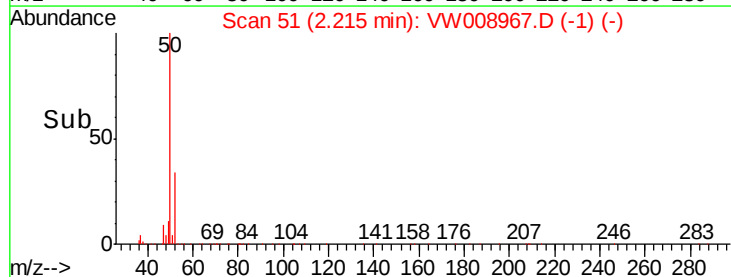
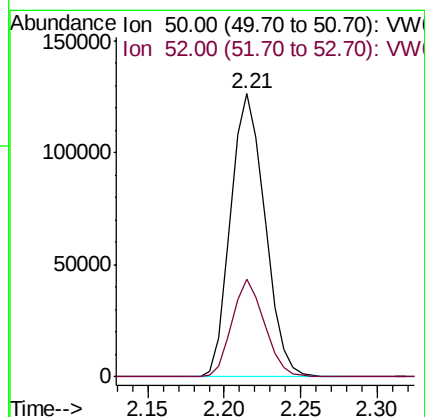
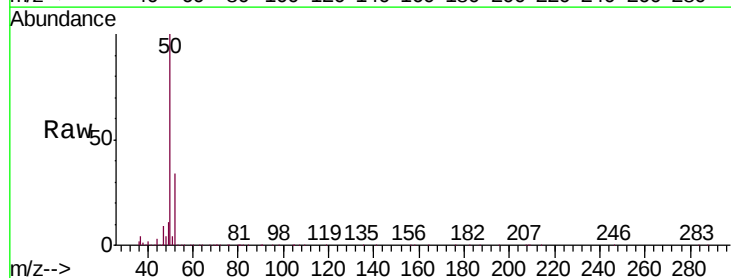
Acq: 04 Mar 2019 15:25

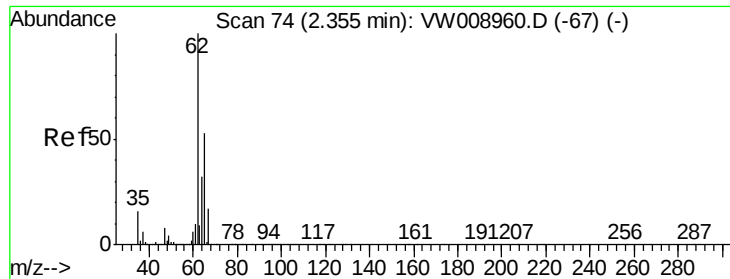
Tgt Ion: 50 Resp: 197046

Ion Ratio Lower Upper

50 100

52 34.4 21.4 39.8





#5

Vinyl chloride

Concen: 23.679 ug/L

RT: 2.35 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

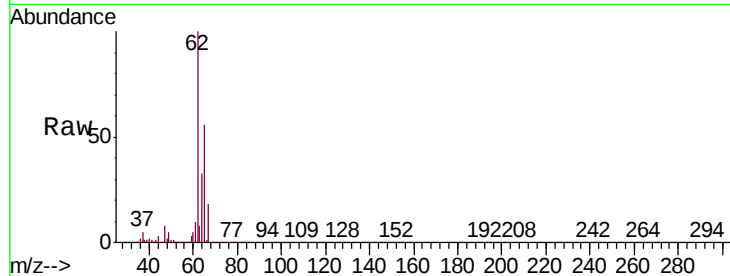
VSTD02508

Tgt Ion: 62 Resp: 201438

Ion Ratio Lower Upper

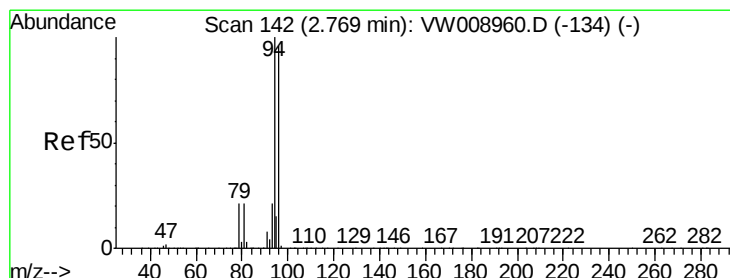
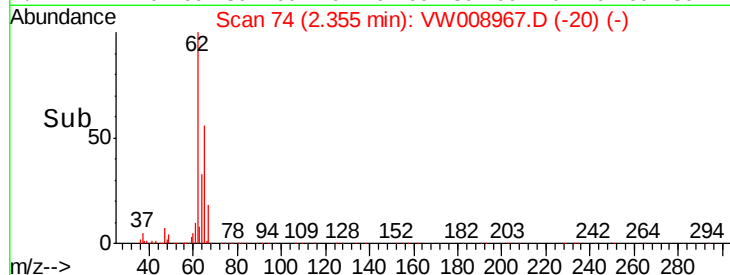
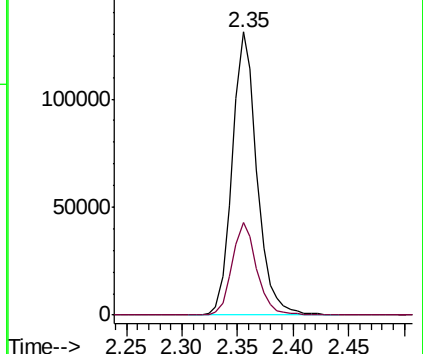
62 100

64 32.7 22.0 41.0



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 23.376 ug/L

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW008967.D

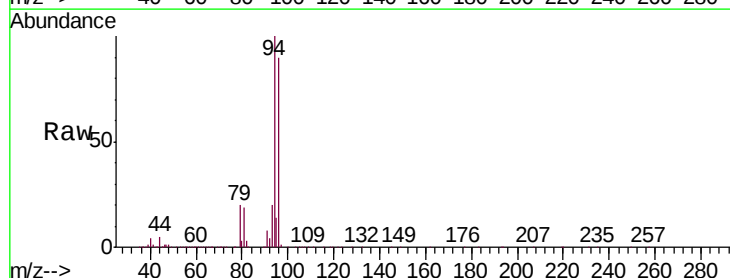
Acq: 04 Mar 2019 15:25

Tgt Ion: 94 Resp: 131860

Ion Ratio Lower Upper

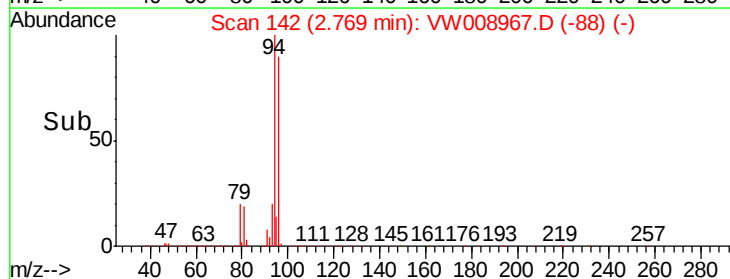
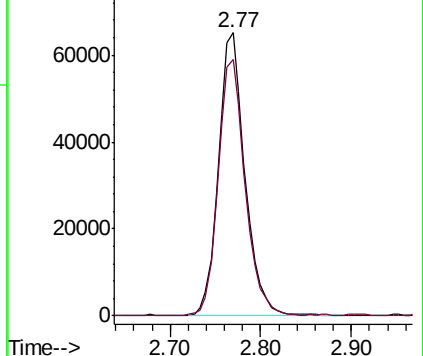
94 100

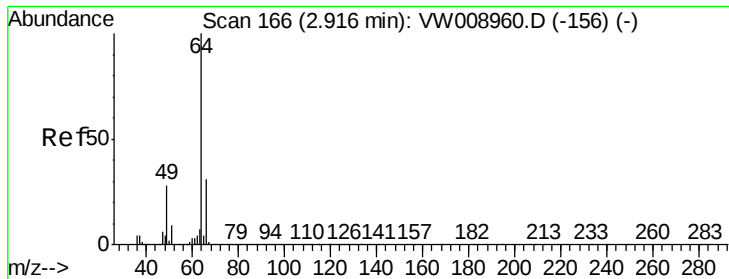
96 92.5 9.2 175.4



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 23.851 ug/L

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

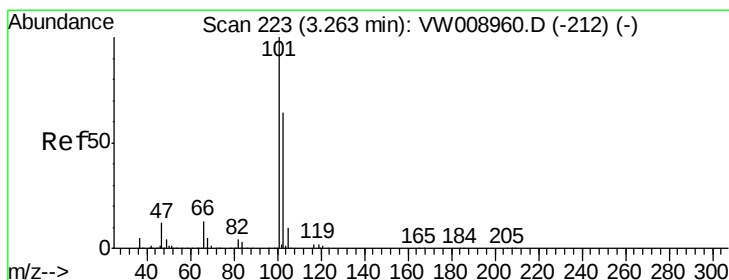
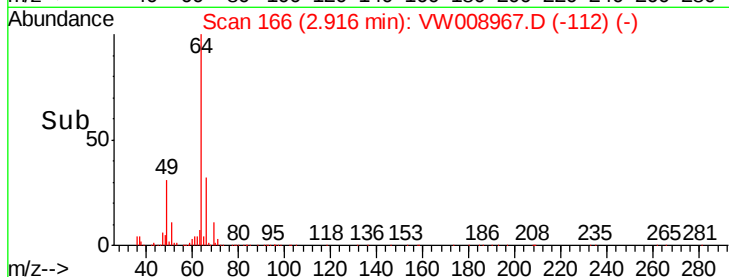
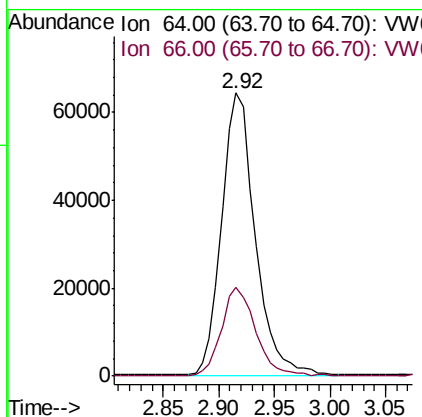
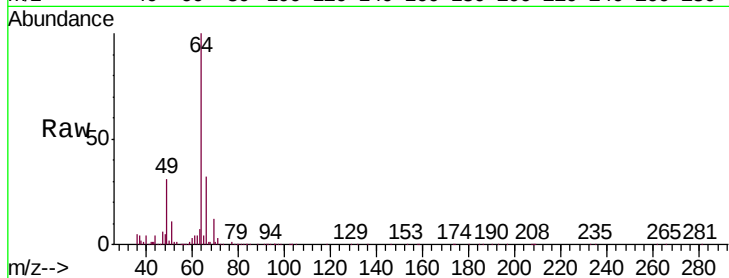
VSTD02508

Tgt Ion: 64 Resp: 135857

Ion Ratio Lower Upper

64 100

66 31.6 23.3 43.3



#9

Trichlorofluoromethane

Concen: 23.926 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW008967.D

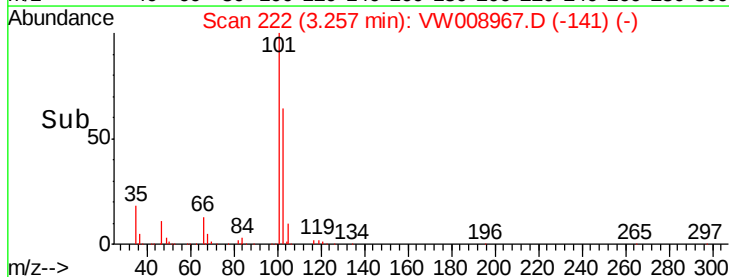
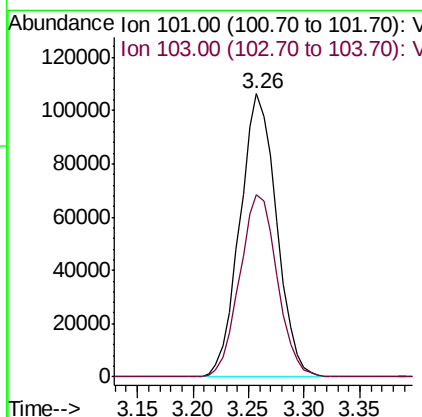
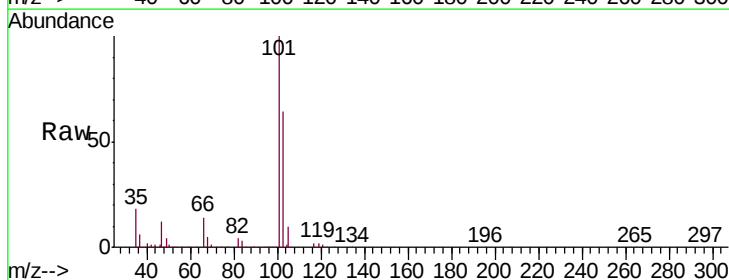
Acq: 04 Mar 2019 15:25

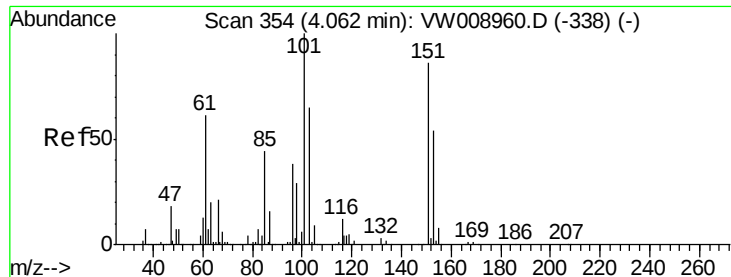
Tgt Ion: 101 Resp: 243397

Ion Ratio Lower Upper

101 100

103 65.9 44.7 83.1





#11

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

Concen: 23.863 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

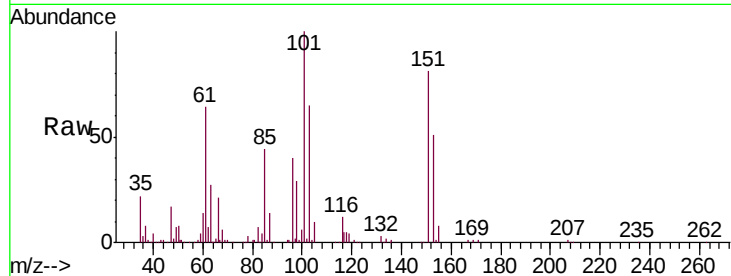
Tgt Ion: 101 Resp: 143372

Ion Ratio Lower Upper

101 100

85 45.0 33.4 50.2

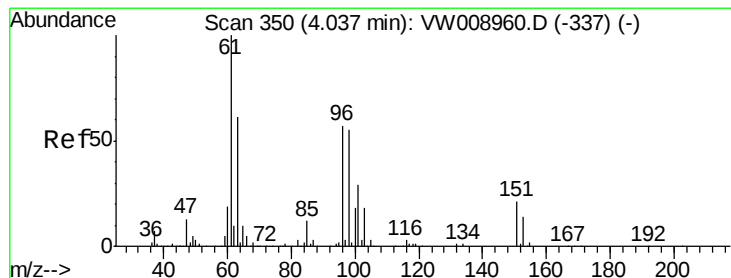
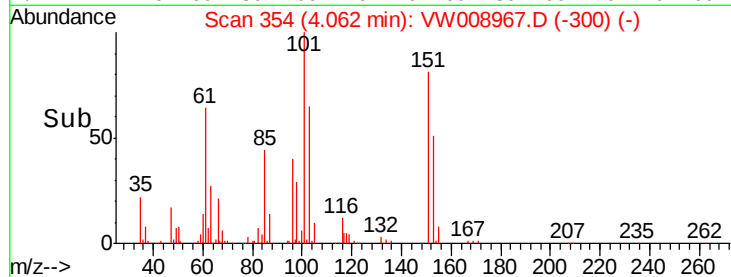
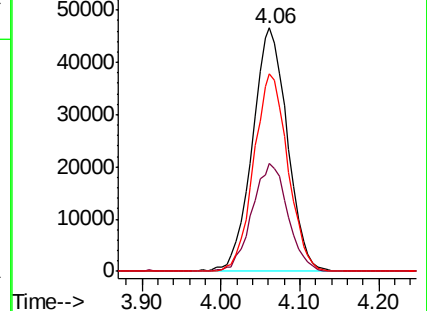
151 79.1 63.2 94.8



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: 23.569 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

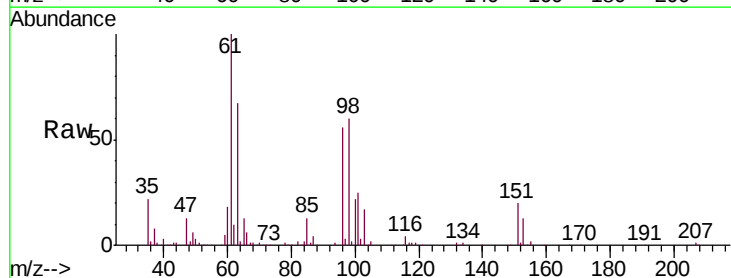
Tgt Ion: 96 Resp: 122850

Ion Ratio Lower Upper

96 100

61 177.2 120.3 223.3

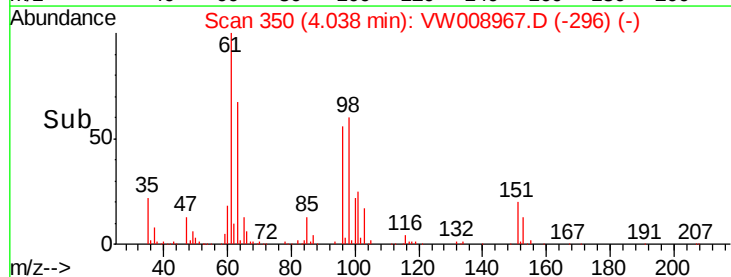
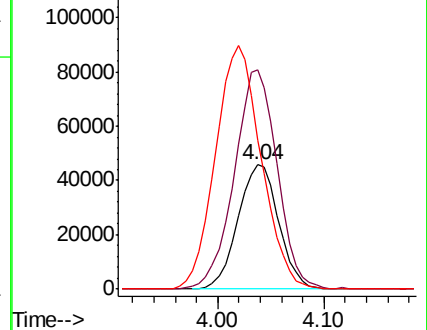
63 119.6 91.6 170.0

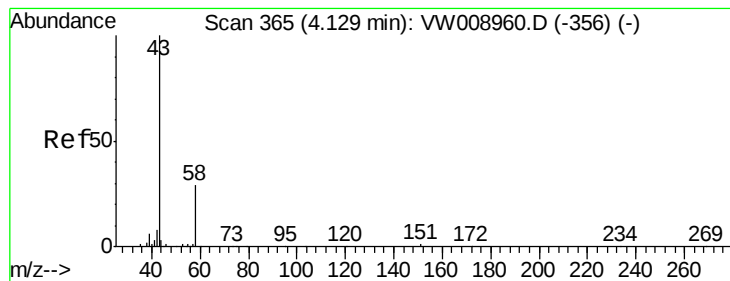


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 44.183 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

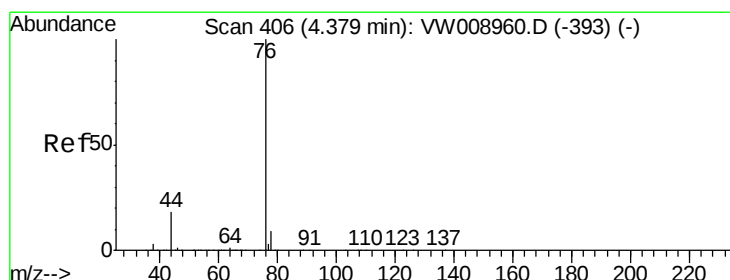
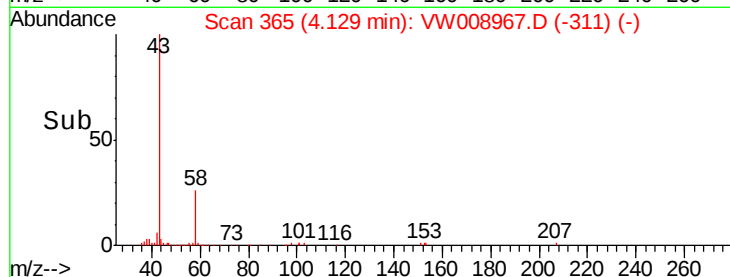
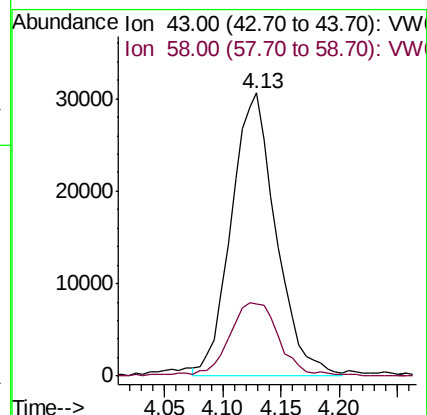
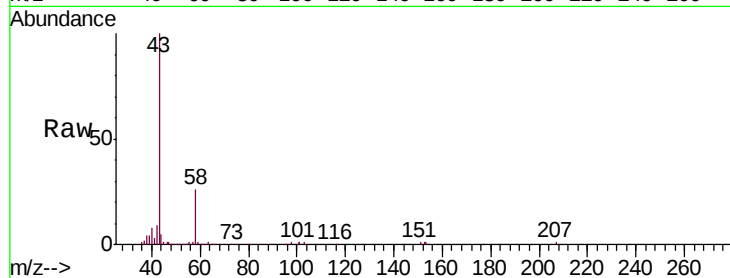
VSTD02508

Tgt Ion: 43 Resp: 81255

Ion Ratio Lower Upper

43 100

58 27.4 0.0 58.6



#14

Carbon disulfide

Concen: 25.026 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW008967.D

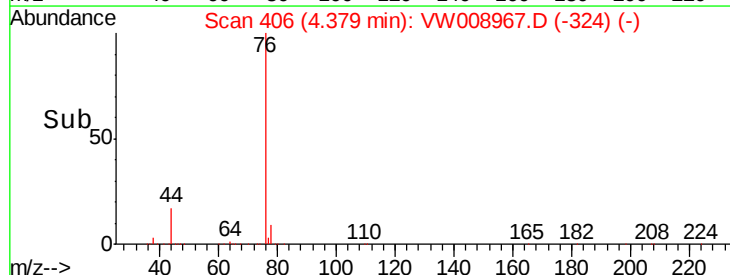
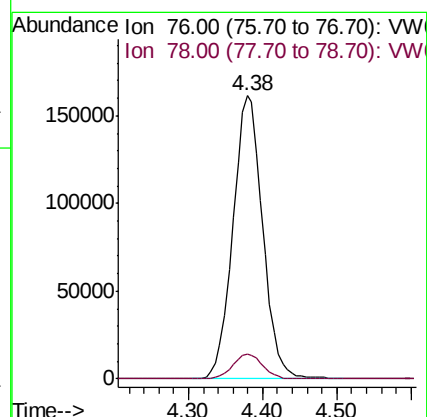
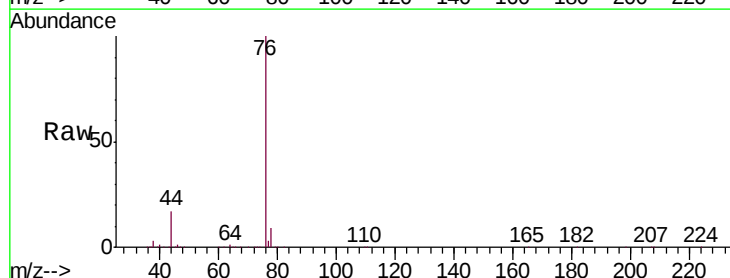
Acq: 04 Mar 2019 15:25

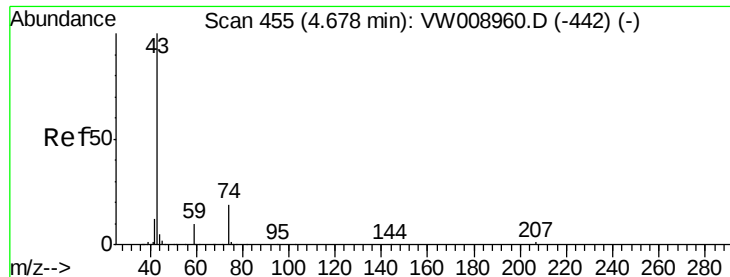
Tgt Ion: 76 Resp: 450769

Ion Ratio Lower Upper

76 100

78 8.9 7.5 11.3





#15

Methyl Acetate

Concen: 19.530 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

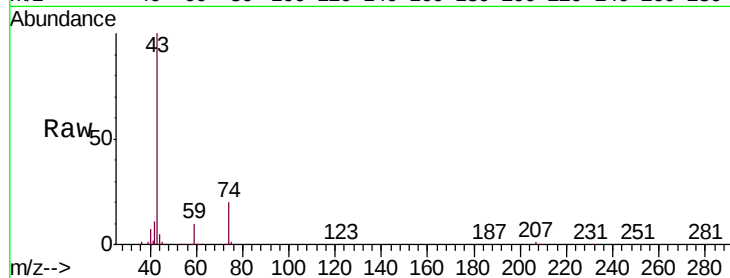
VSTD02508

Tgt Ion: 43 Resp: 71637

Ion Ratio Lower Upper

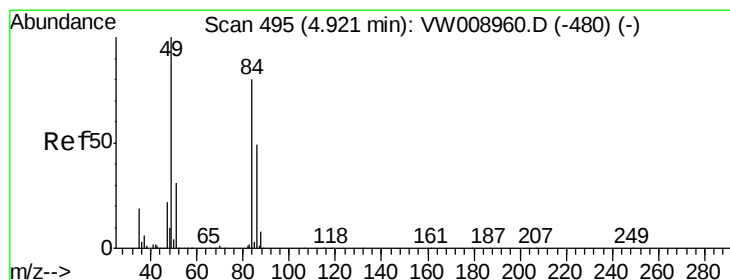
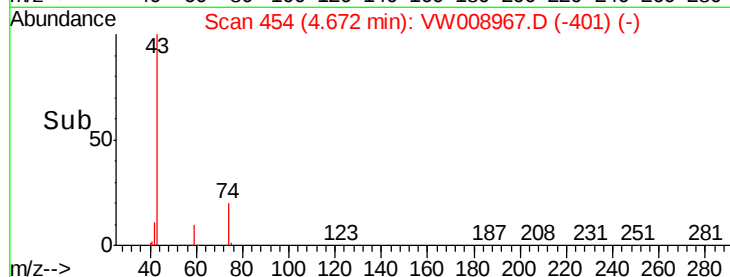
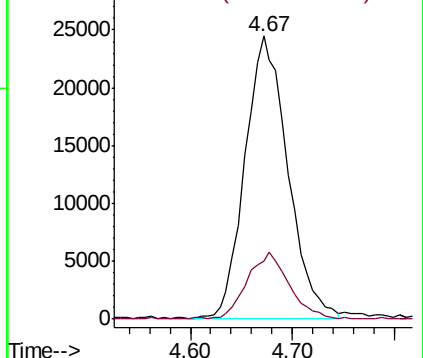
43 100

74 22.5 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 24.968 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

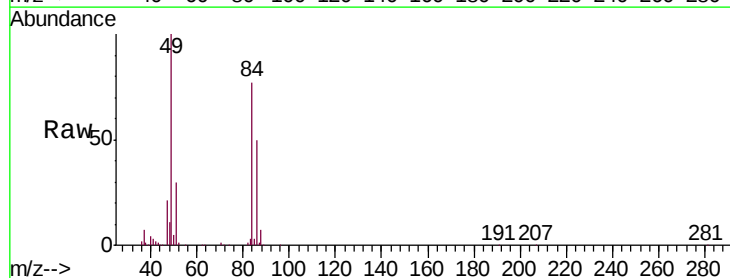
Tgt Ion: 84 Resp: 168712

Ion Ratio Lower Upper

84 100

49 130.6 79.2 147.0

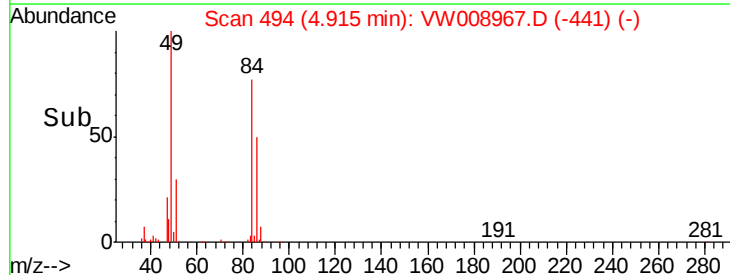
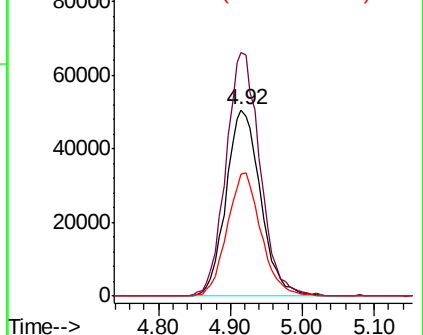
86 65.6 43.2 80.2

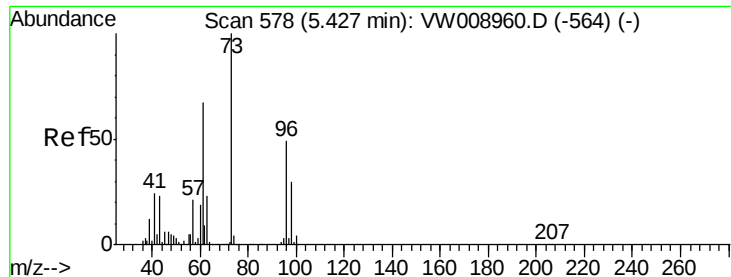


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

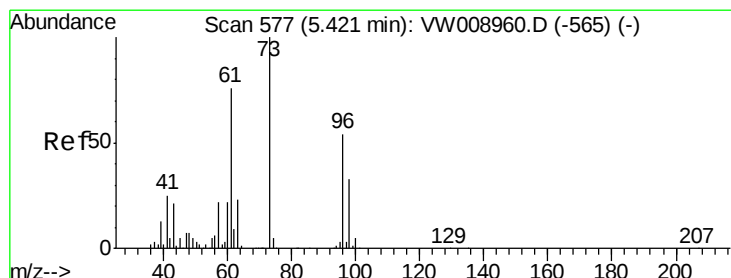
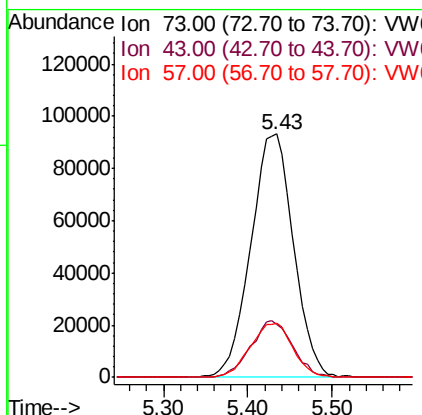
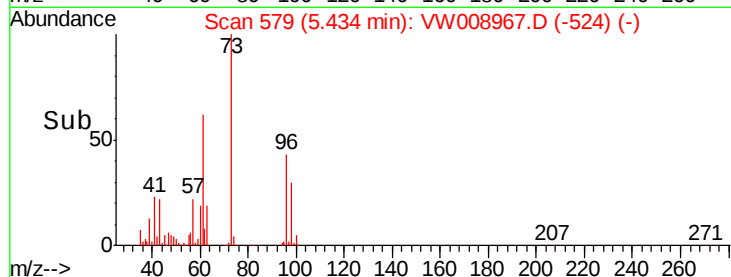
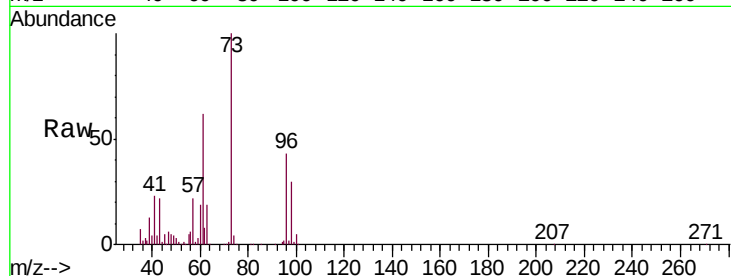




#17
Methyl tert-butyl Ether
Concen: 22.077 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

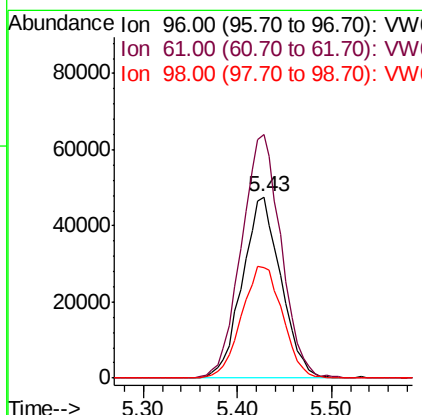
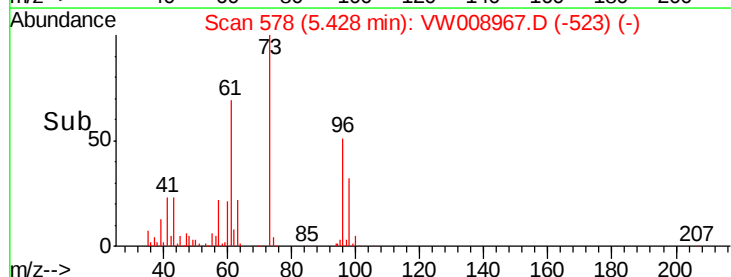
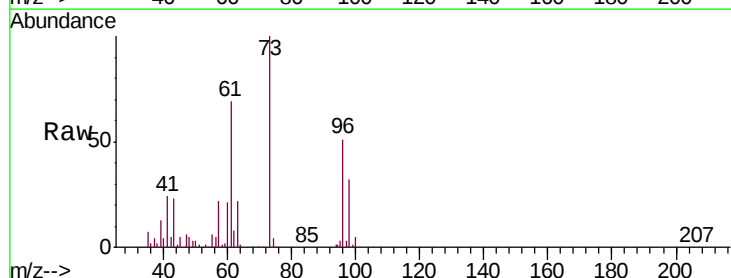
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

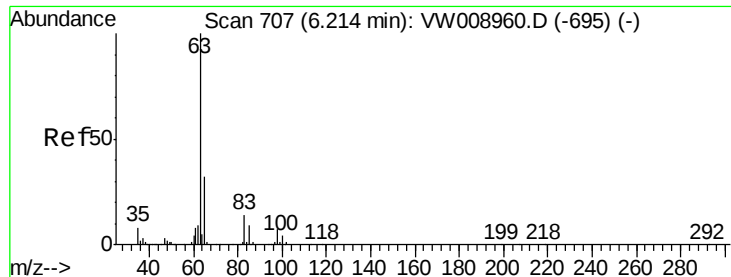
Tgt Ion: 73 Resp: 323615
Ion Ratio Lower Upper
73 100
43 22.6 18.5 27.7
57 22.4 16.4 24.6



#18
trans-1,2-Dichloroethene
Concen: 23.829 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

Tgt Ion: 96 Resp: 136747
Ion Ratio Lower Upper
96 100
61 134.5 91.4 169.8
98 61.3 48.0 89.2

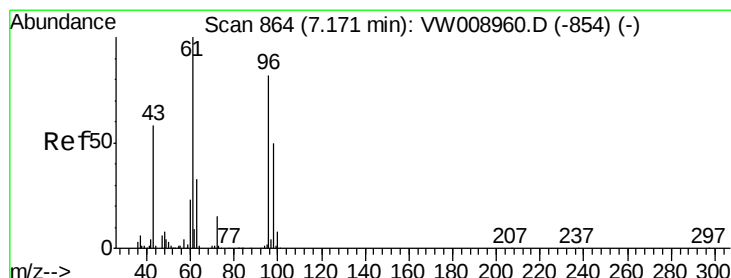
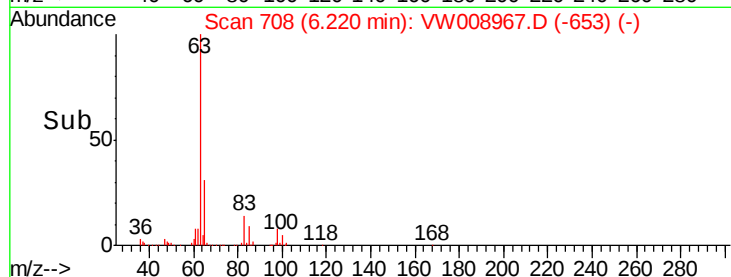
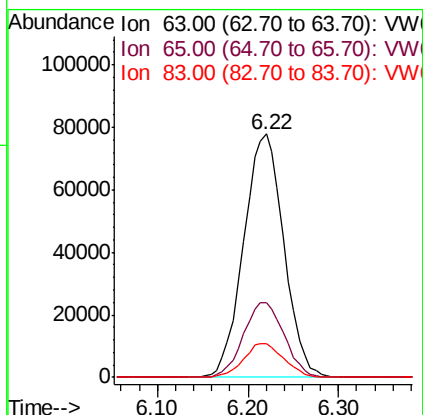
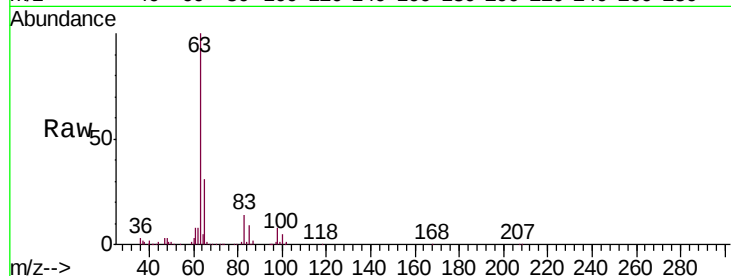




#19
 1,1-Dichloroethane
 Concen: 24.471 ug/L
 RT: 6.22 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

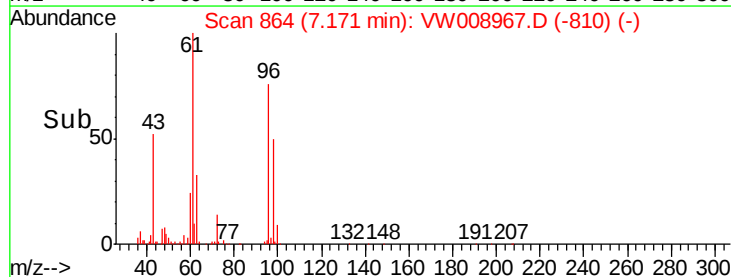
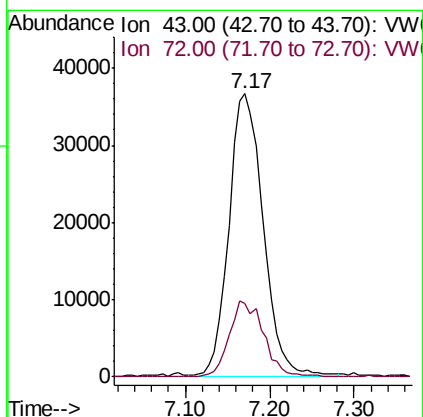
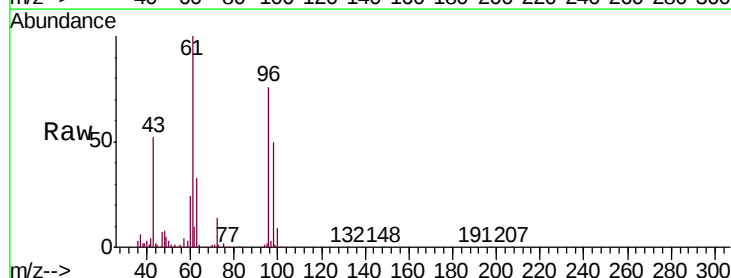
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

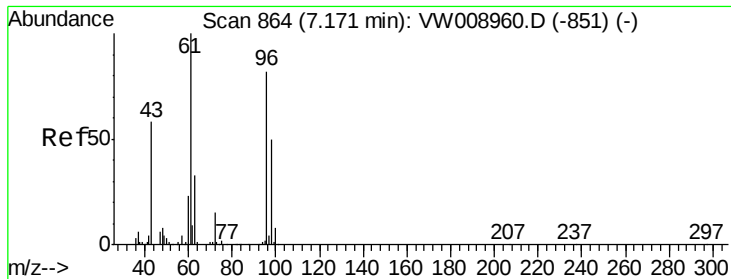
Tgt Ion: 63 Resp: 238441
 Ion Ratio Lower Upper
 63 100
 65 30.9 20.6 38.4
 83 13.9 10.0 18.6



#21
 2-Butanone
 Concen: 39.269 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

Tgt Ion: 43 Resp: 101051
 Ion Ratio Lower Upper
 43 100
 72 26.9 14.4 43.4



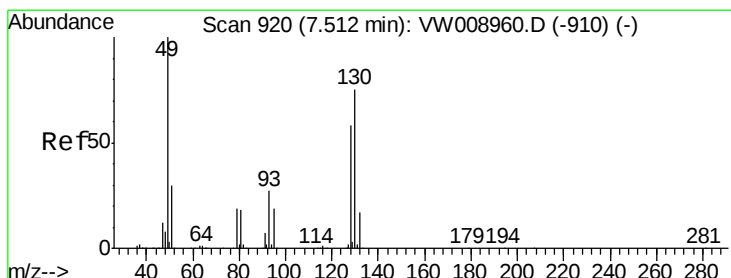
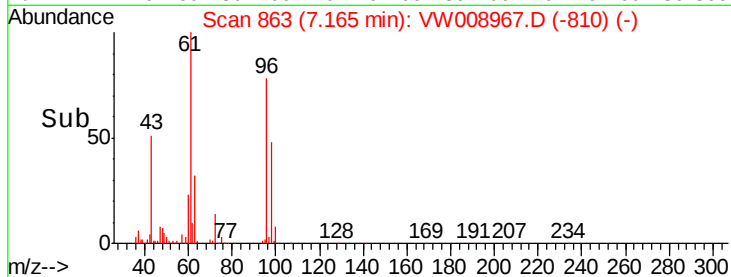
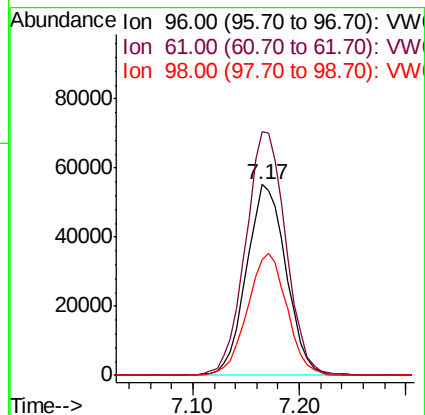
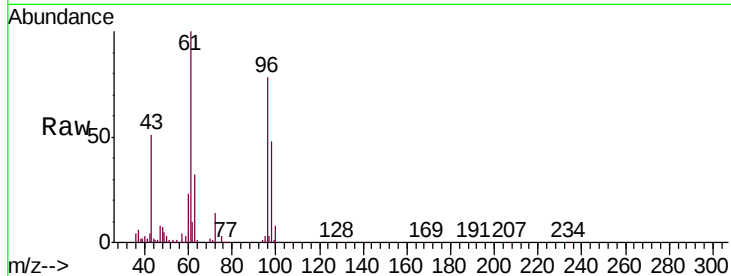


#22

cis-1,2-Dichloroethene
 Concen: 23.404 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

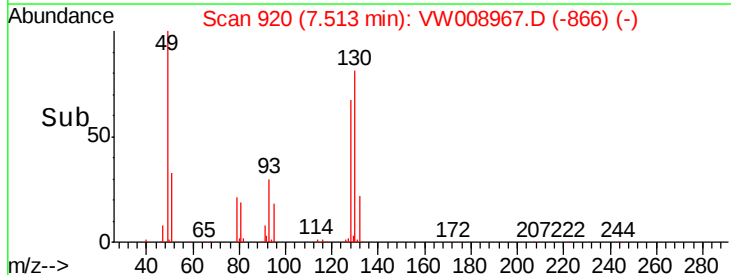
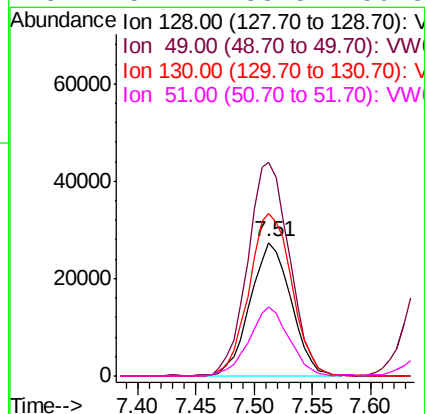
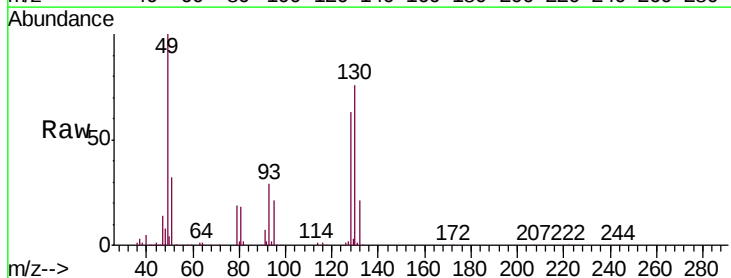
Tgt Ion: 96 Resp: 144049
 Ion Ratio Lower Upper
 96 100
 61 127.5 83.4 155.0
 98 60.7 42.3 78.5

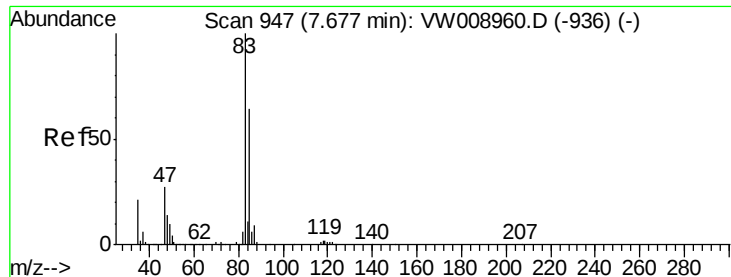


#23

Bromochloromethane
 Concen: 23.768 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

Tgt Ion: 128 Resp: 66935
 Ion Ratio Lower Upper
 128 100
 49 159.8 96.9 180.1
 130 121.5 86.2 160.0
 51 51.7 33.5 50.3#





#25

Chloroform

Concen: 26.868 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

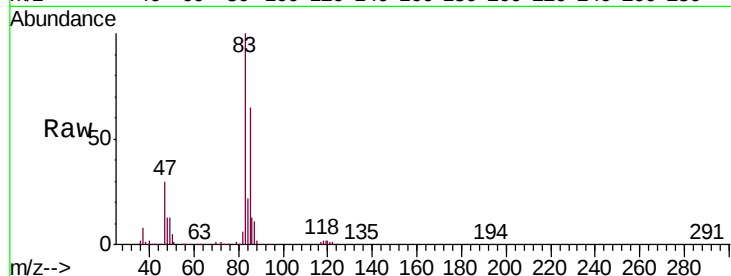
VSTD02508

Tgt Ion: 83 Resp: 275585

Ion Ratio Lower Upper

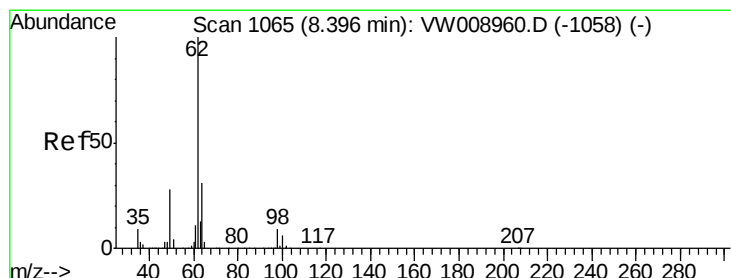
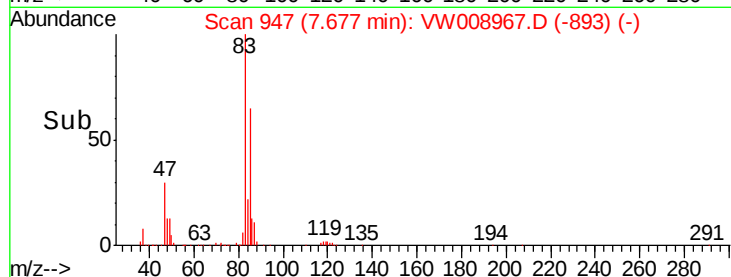
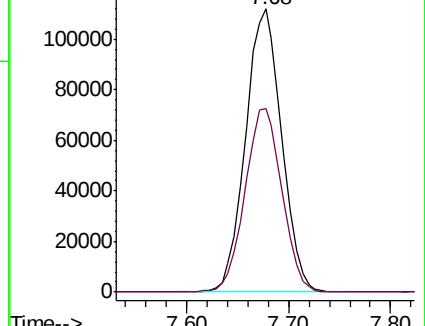
83 100

85 66.4 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 23.991 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW008967.D

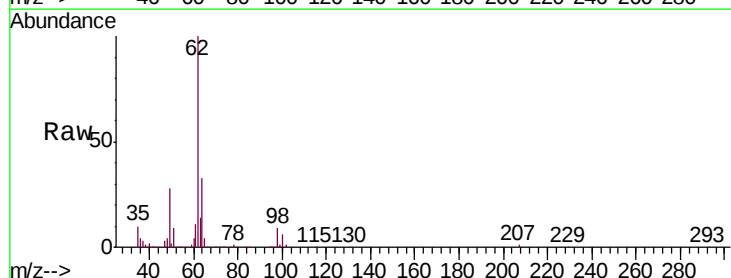
Acq: 04 Mar 2019 15:25

Tgt Ion: 62 Resp: 178960

Ion Ratio Lower Upper

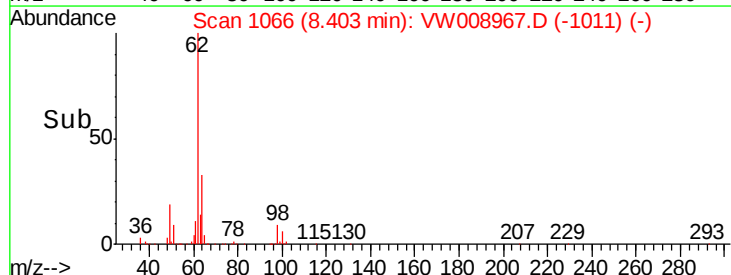
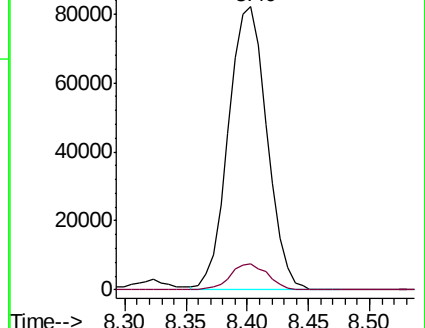
62 100

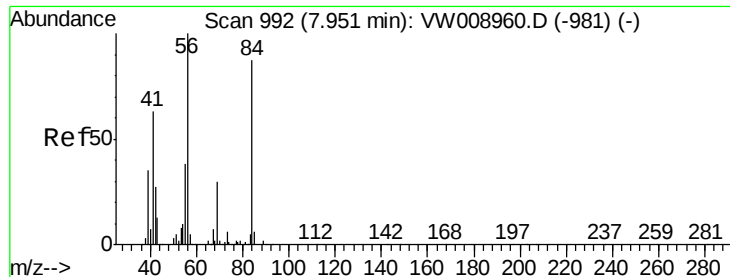
98 9.1 5.4 8.2#



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

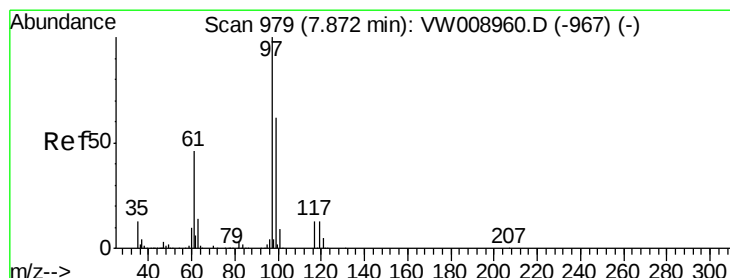
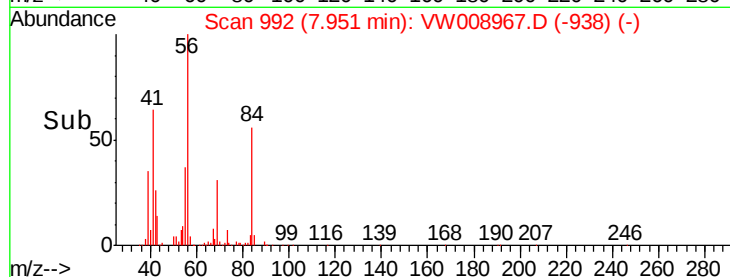
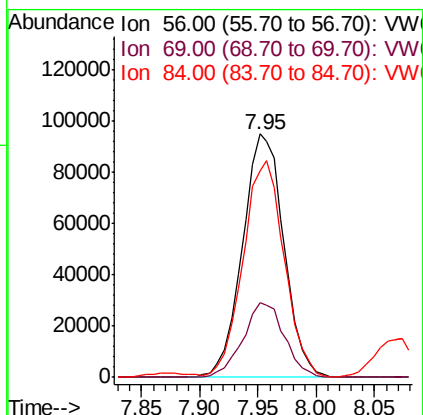
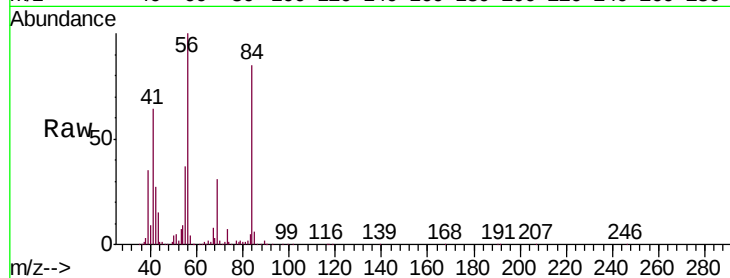




#30
Cyclohexane
Concen: 23.534 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

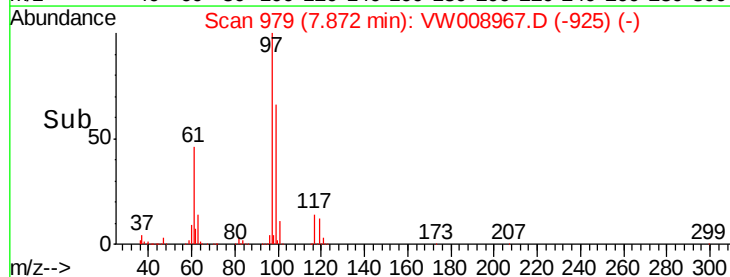
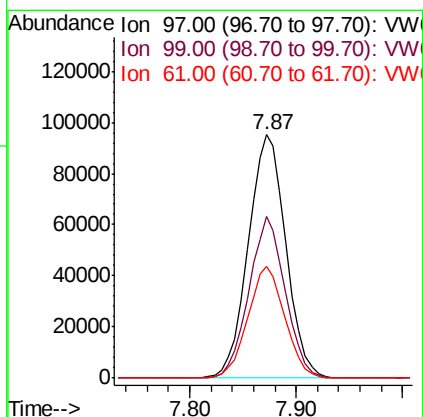
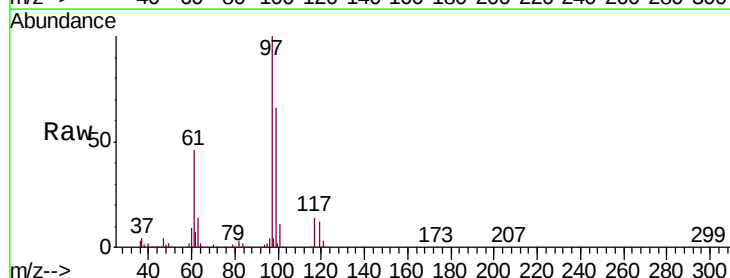
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

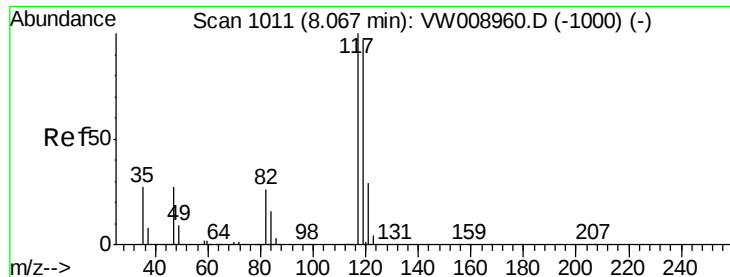
Tgt Ion: 56 Resp: 234475
Ion Ratio Lower Upper
56 100
69 30.7 26.2 39.4
84 88.7 74.3 111.5



#31
1,1,1-Trichloroethane
Concen: 24.100 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

Tgt Ion: 97 Resp: 235503
Ion Ratio Lower Upper
97 100
99 63.9 52.3 78.5
61 45.3 33.5 50.3





#32

Carbon tetrachloride

Concen: 24.048 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

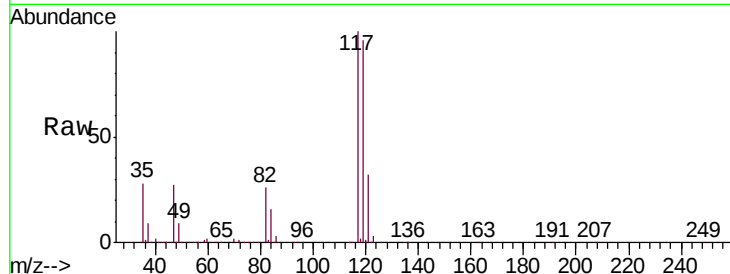
VSTD02508

Tgt Ion:117 Resp: 214766

Ion Ratio Lower Upper

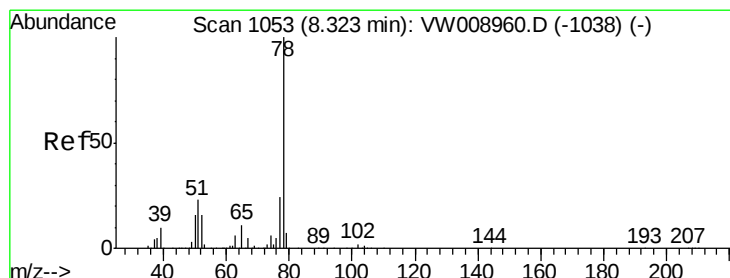
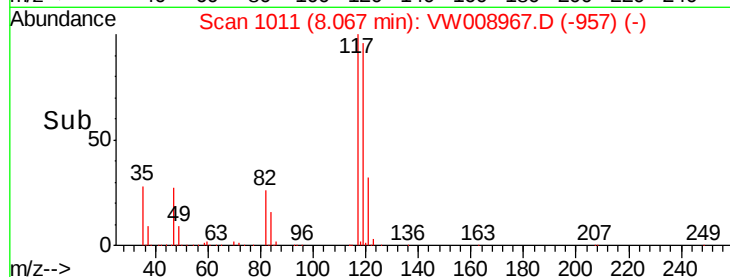
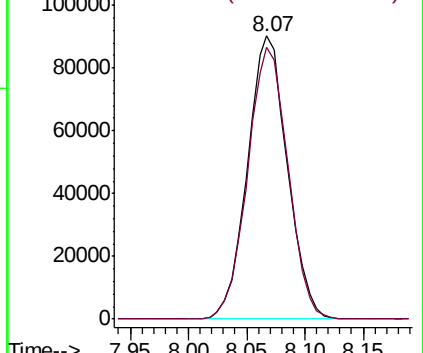
117 100

119 97.0 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.675 ug/L

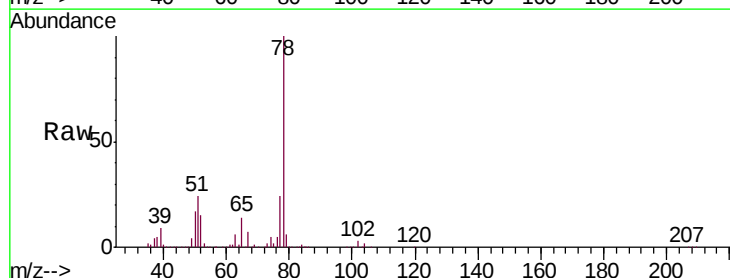
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

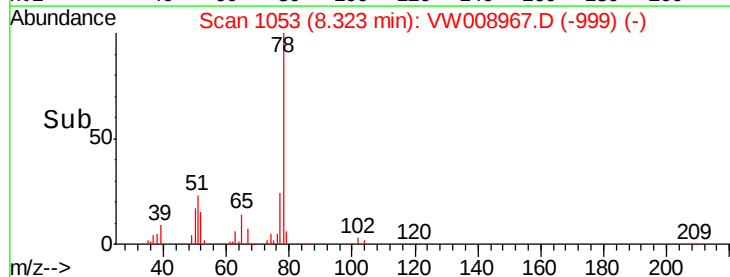
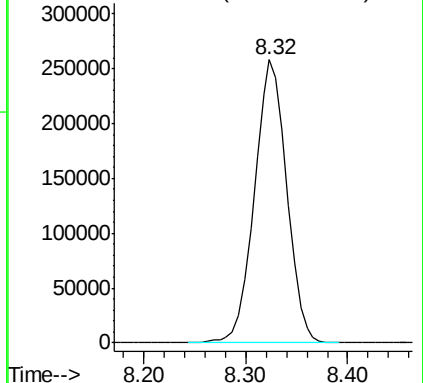
Lab File: VW008967.D

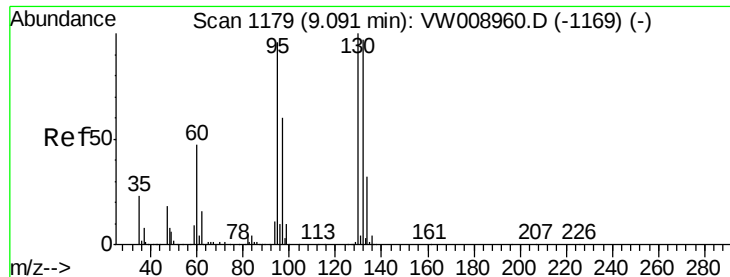
Acq: 04 Mar 2019 15:25

Tgt Ion: 78 Resp: 566618



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.877 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion: 95 Resp: 147991

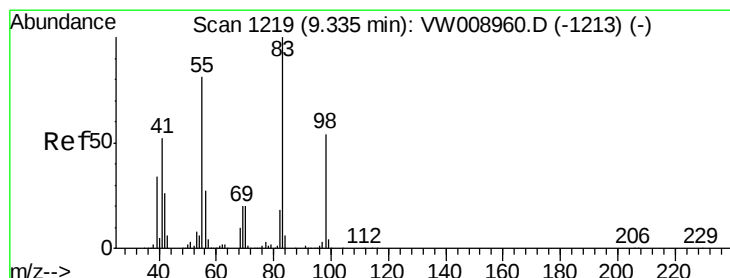
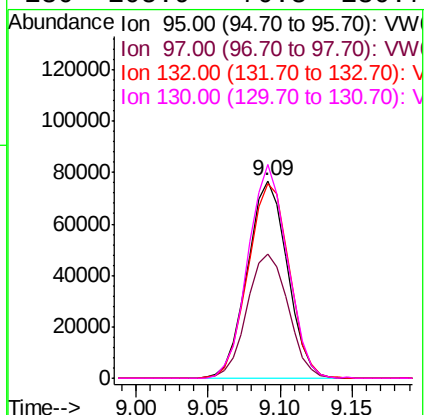
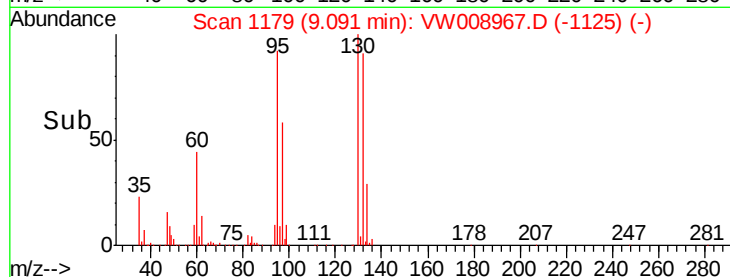
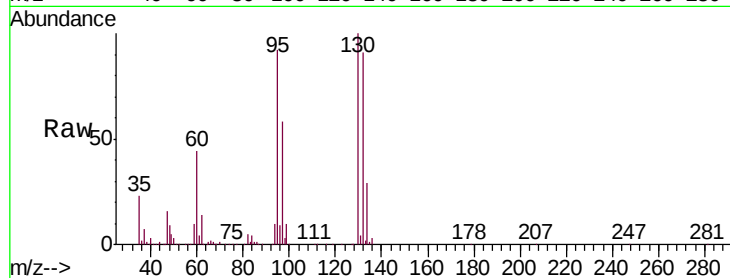
Ion Ratio Lower Upper

95 100

97 64.8 44.4 82.5

132 100.8 67.8 126.0

130 105.9 70.3 130.7



#36

Methylcyclohexane

Concen: 23.678 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

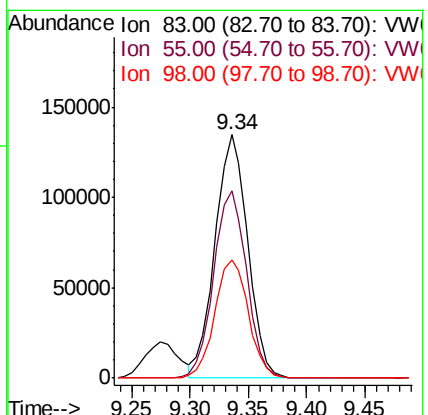
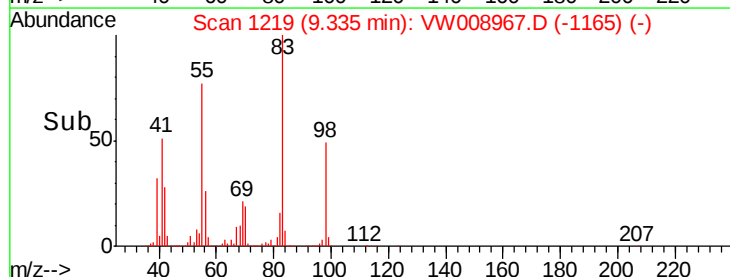
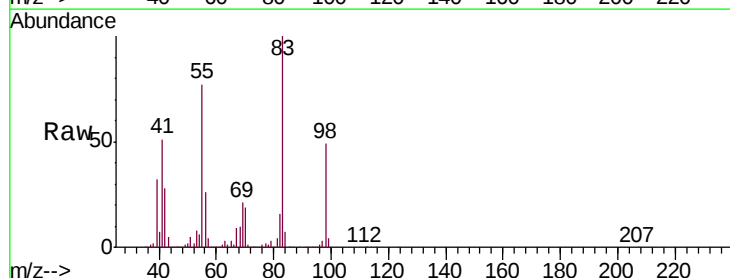
Tgt Ion: 83 Resp: 260413

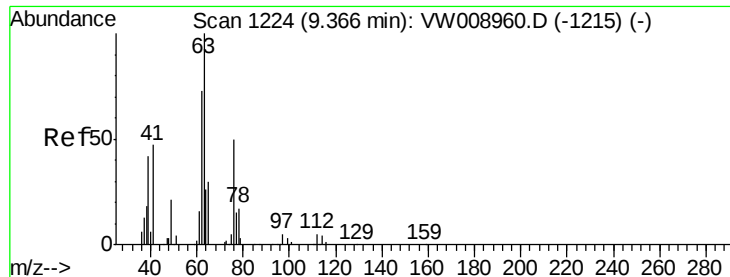
Ion Ratio Lower Upper

83 100

55 77.8 59.4 89.0

98 50.0 38.2 57.2

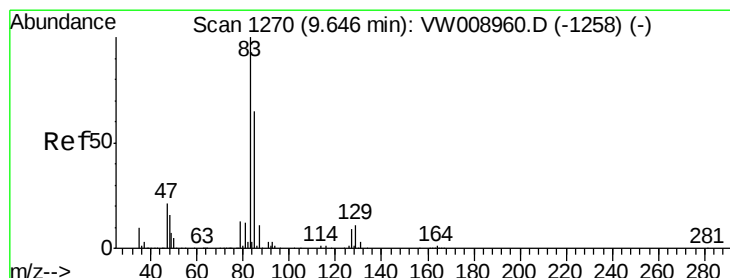
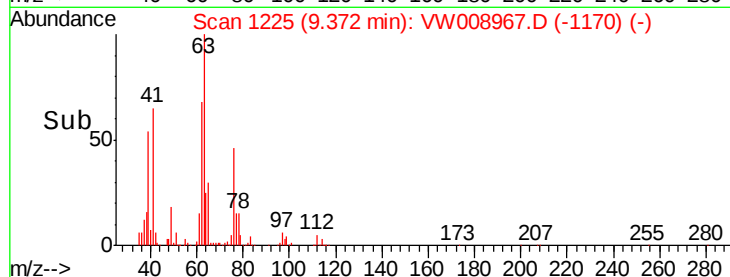
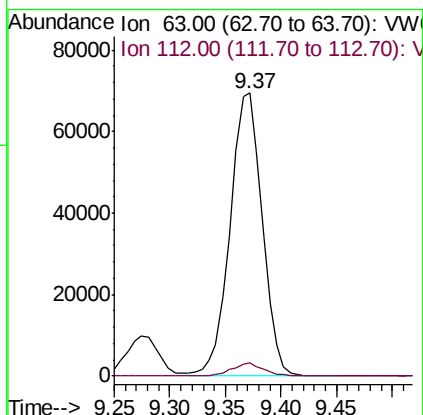
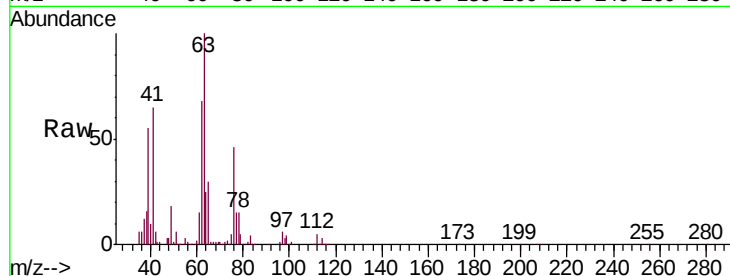




#40
 1,2-Dichloropropane
 Concen: 24.538 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.01 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

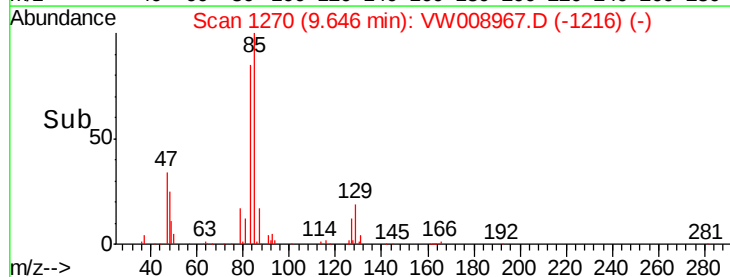
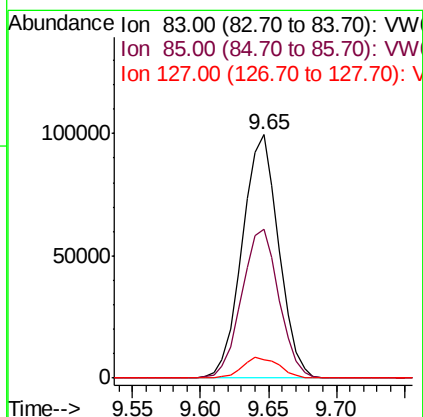
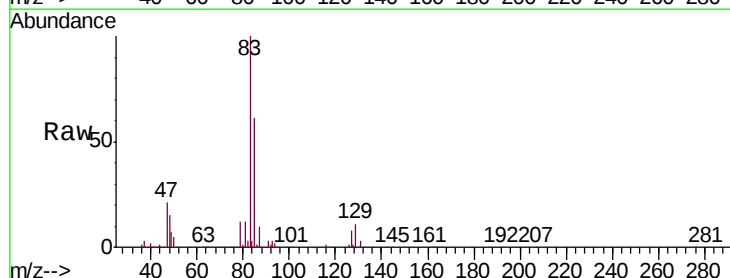
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

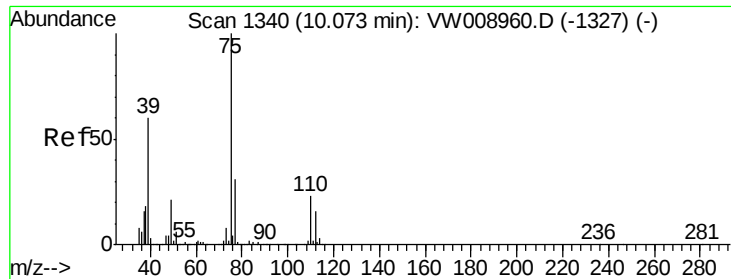
Tgt Ion: 63 Resp: 139194
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.7 5.5



#41
 Bromodichloromethane
 Concen: 24.252 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

Tgt Ion: 83 Resp: 187054
 Ion Ratio Lower Upper
 83 100
 85 61.0 44.4 82.5
 127 7.6 7.0 10.6





#42

cis-1,3-Dichloropropene

Concen: 24.082 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

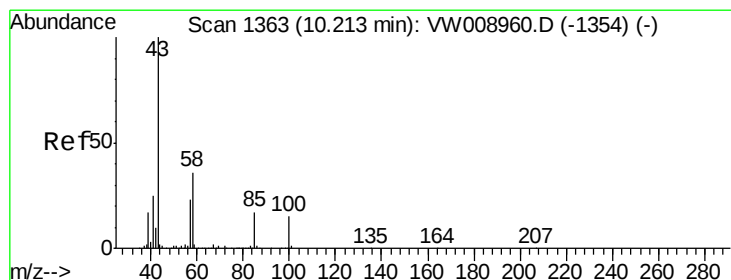
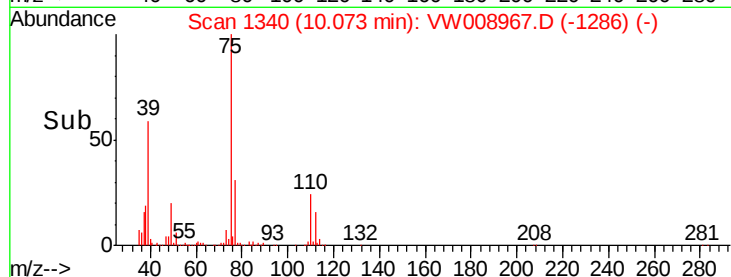
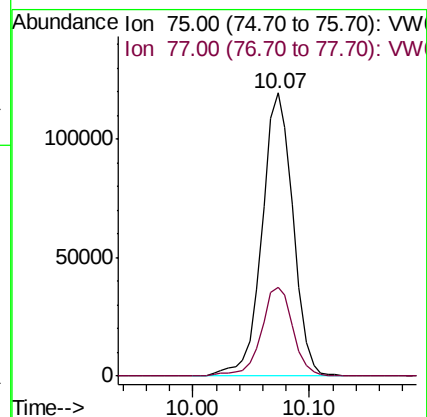
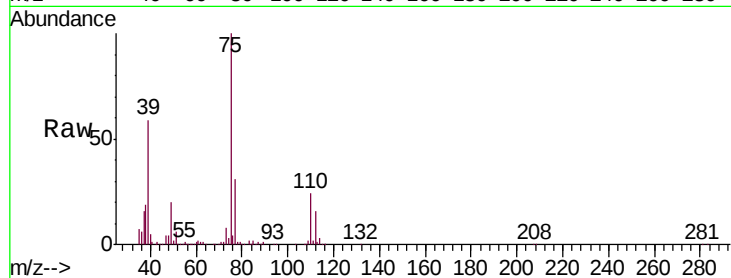
VSTD02508

Tgt Ion: 75 Resp: 221588

Ion Ratio Lower Upper

75 100

77 31.5 23.0 42.8



#43

4-Methyl-2-pentanone

Concen: 41.442 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

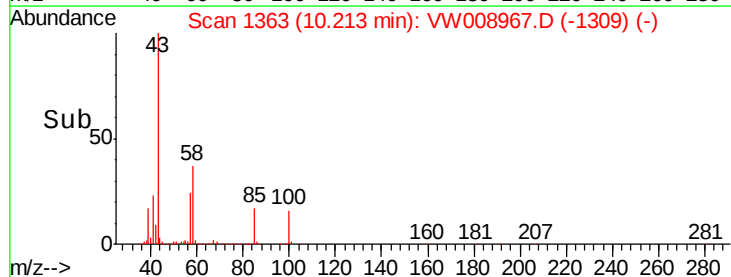
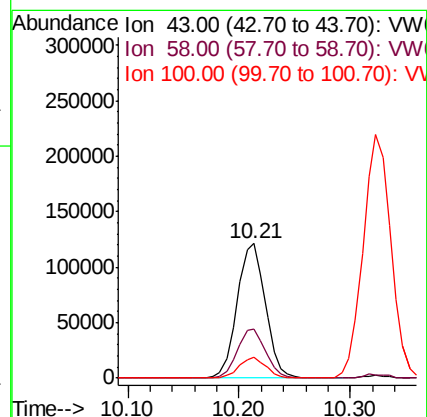
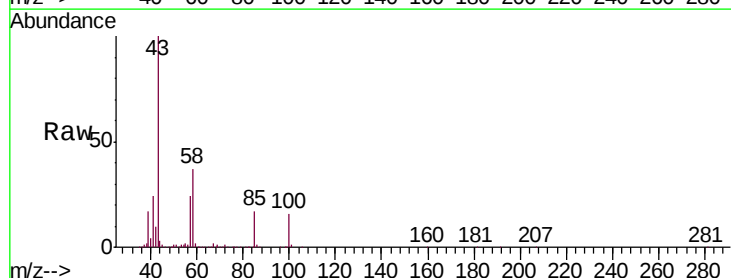
Tgt Ion: 43 Resp: 212297

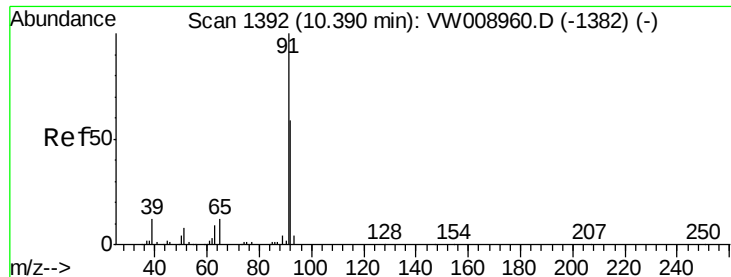
Ion Ratio Lower Upper

43 100

58 36.8 31.1 46.7

100 15.1 14.0 21.0





#44

Toluene

Concen: 25.195 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

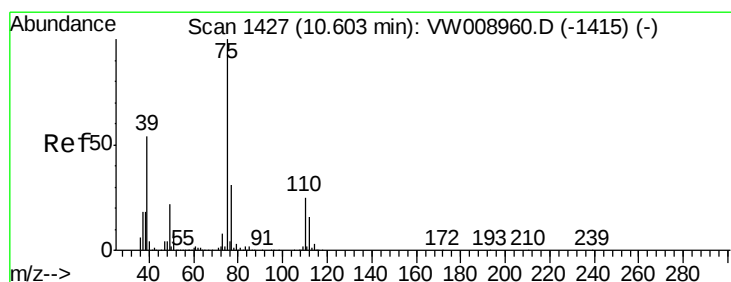
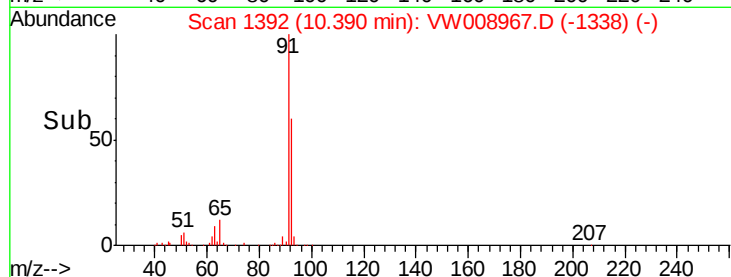
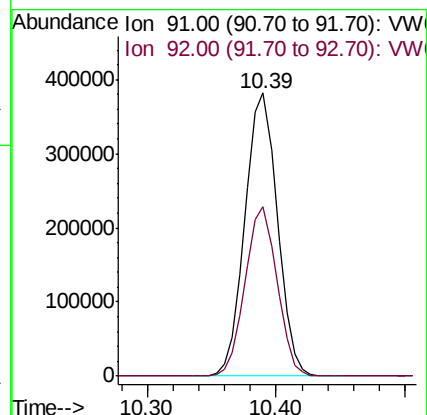
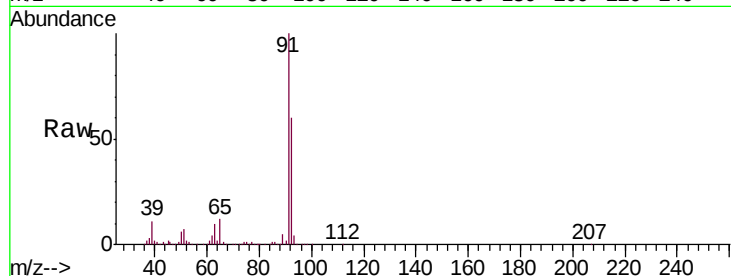
VSTD02508

Tgt Ion: 91 Resp: 665118

Ion Ratio Lower Upper

91 100

92 60.1 39.6 73.6



#45

trans-1,3-Dichloropropene

Concen: 24.001 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW008967.D

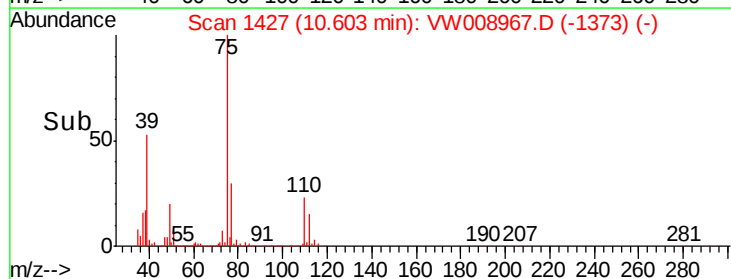
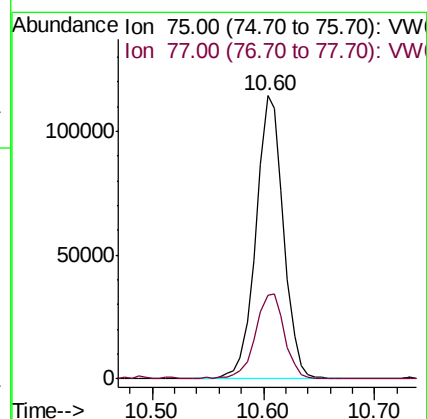
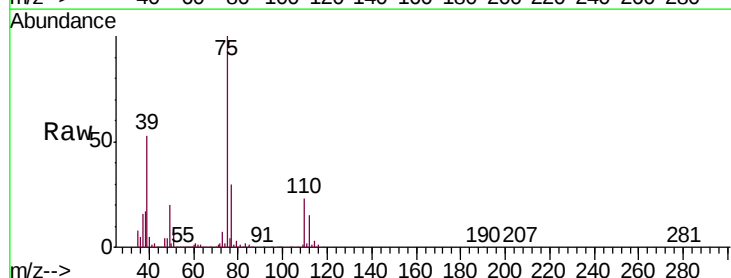
Acq: 04 Mar 2019 15:25

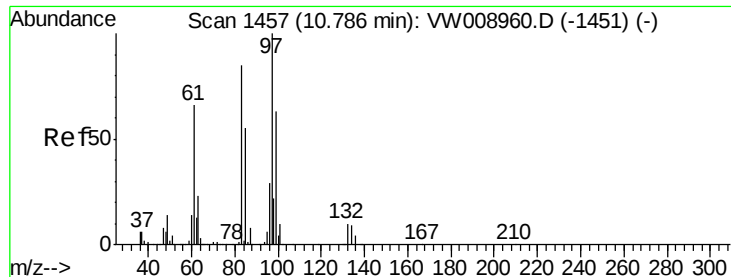
Tgt Ion: 75 Resp: 197202

Ion Ratio Lower Upper

75 100

77 29.6 21.1 39.3





#46

1,1,2-Trichloroethane

Concen: 22.486 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion: 97 Resp: 106645

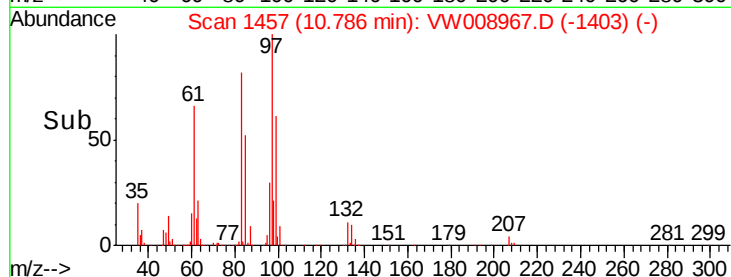
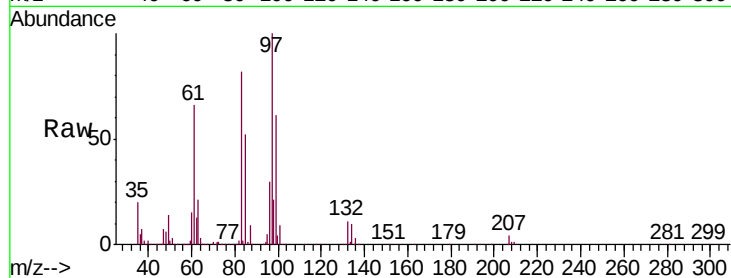
Ion Ratio Lower Upper

97 100

83 81.6 58.4 108.6

85 52.4 36.4 67.6

99 60.6 43.8 81.3

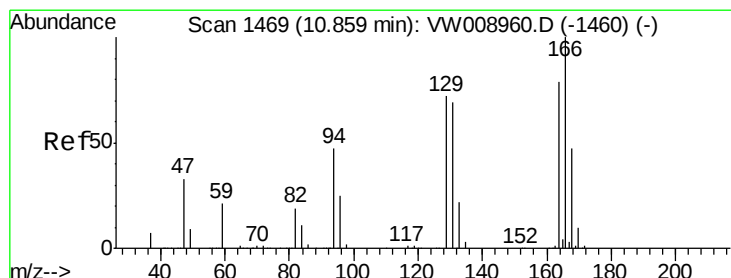
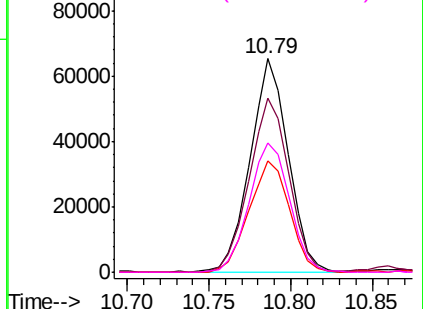


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 24.827 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Tgt Ion: 164 Resp: 140088

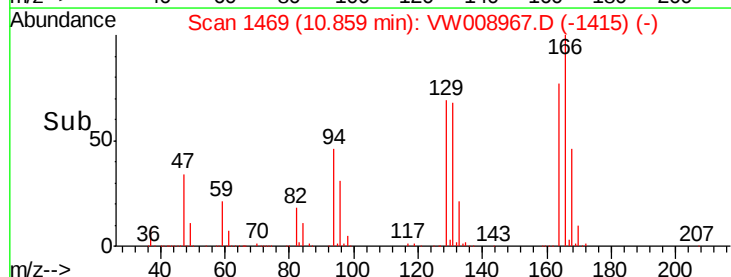
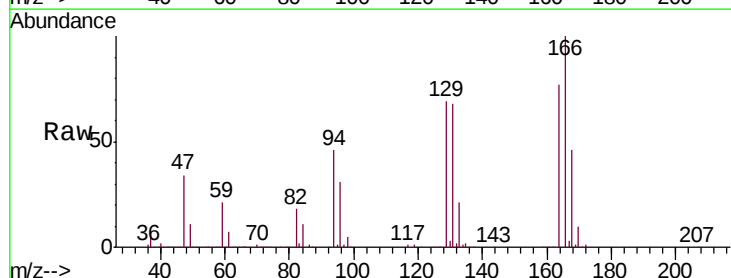
Ion Ratio Lower Upper

164 100

129 90.1 70.6 131.2

131 88.2 66.5 123.5

166 129.7 87.7 162.9

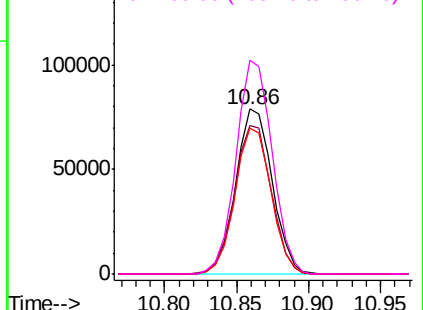


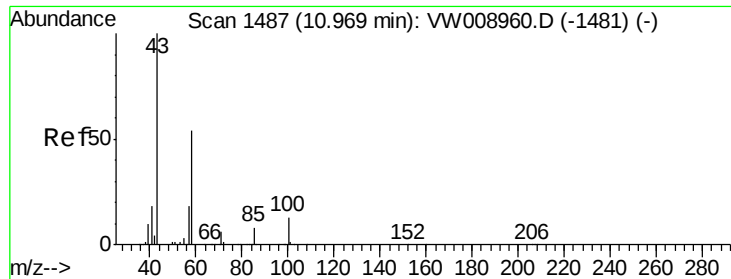
Abundance Ion 164.00 (163.70 to 164.70): V

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

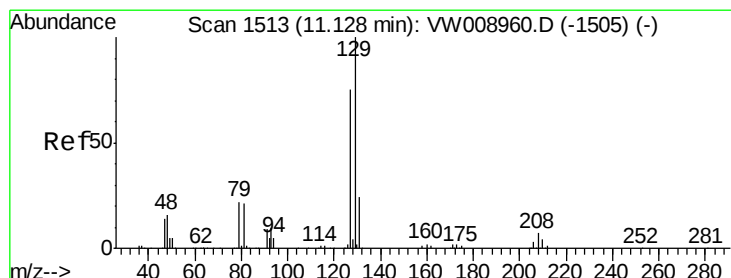
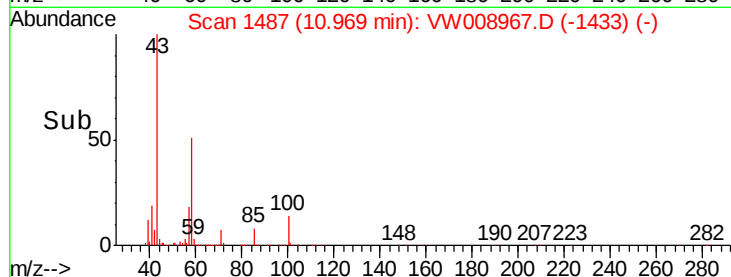
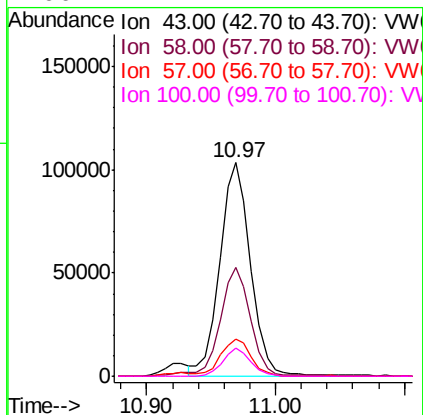
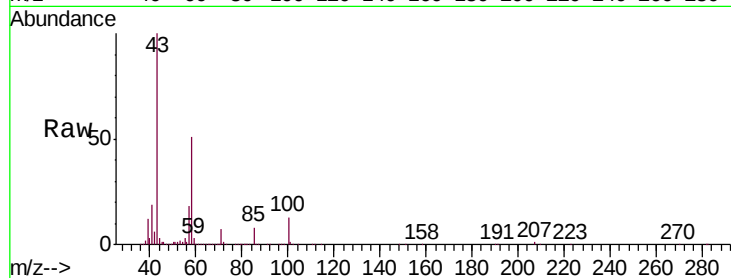




#49
2-Hexanone
Concen: 43.015 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

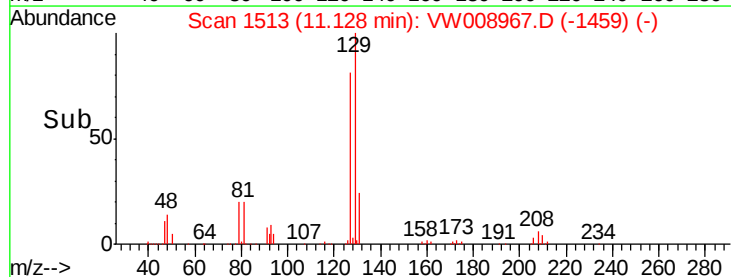
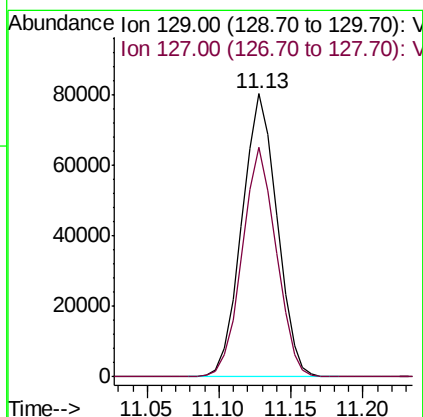
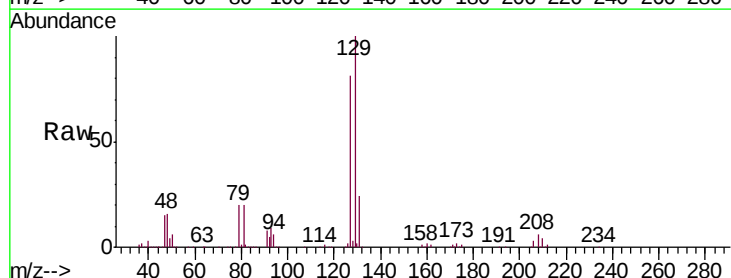
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

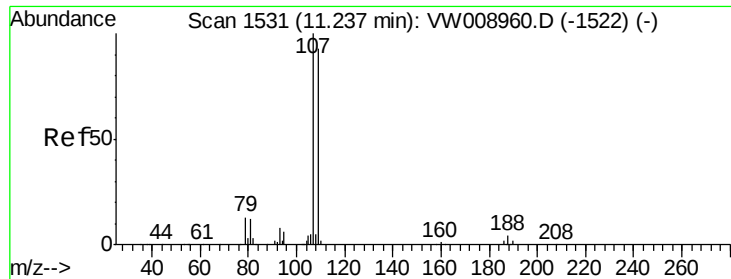
Tgt Ion: 43 Resp: 172845
Ion Ratio Lower Upper
43 100
58 49.3 46.2 69.4
57 17.2 17.9 26.9#
100 12.1 11.4 17.2



#50
Dibromochloromethane
Concen: 23.599 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

Tgt Ion: 129 Resp: 135683
Ion Ratio Lower Upper
129 100
127 81.3 55.8 103.6





#51

1,2-Dibromoethane

Concen: 21.740 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

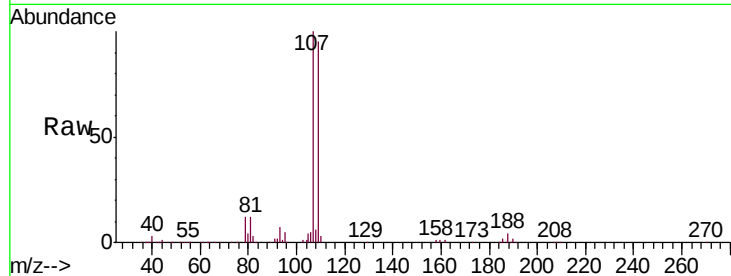
Tgt Ion:107 Resp: 104294

Ion Ratio Lower Upper

107 100

109 94.9 63.2 117.4

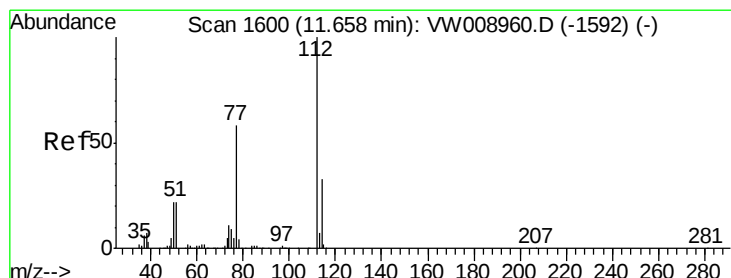
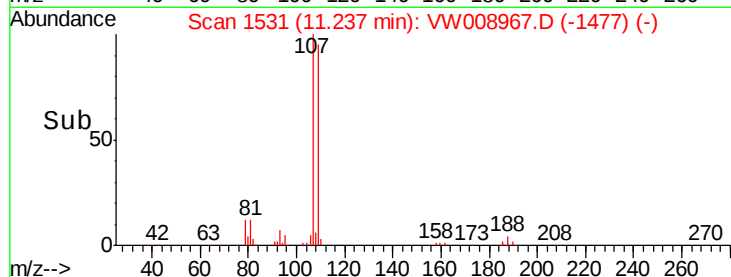
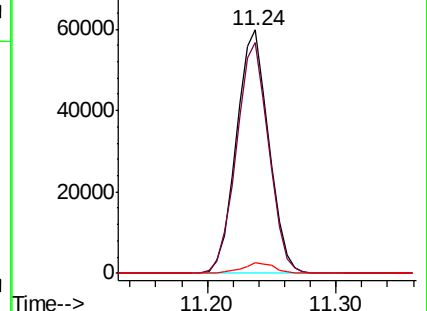
188 4.2 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.502 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

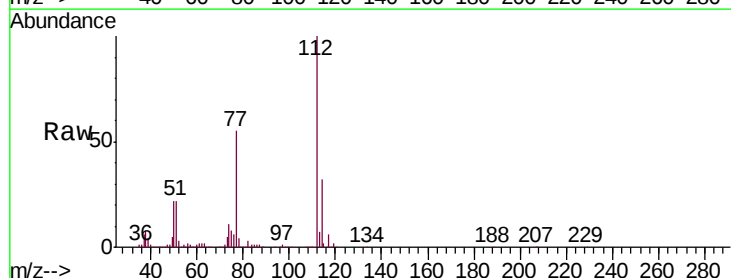
Tgt Ion:112 Resp: 435343

Ion Ratio Lower Upper

112 100

77 55.4 47.8 71.6

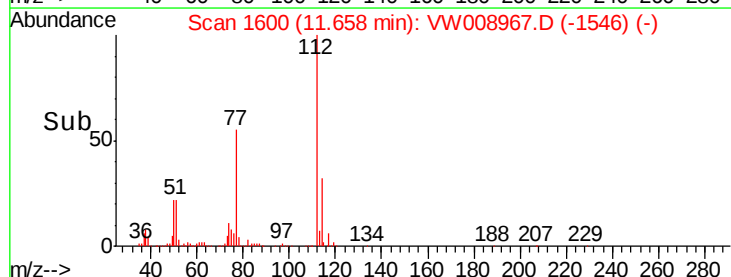
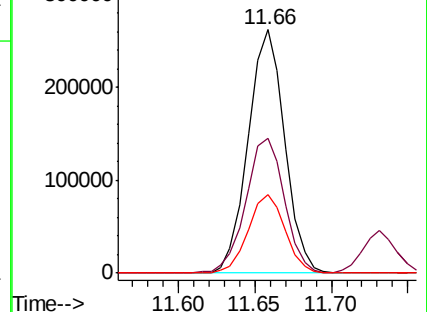
114 32.1 22.2 41.2

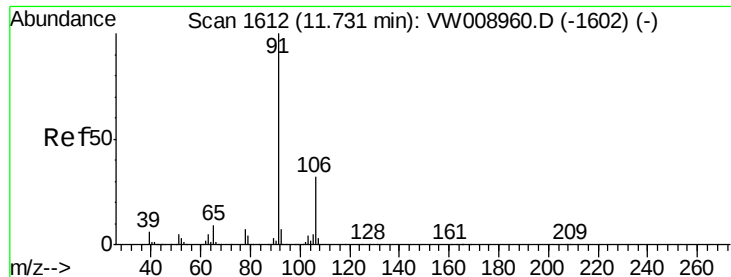


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V

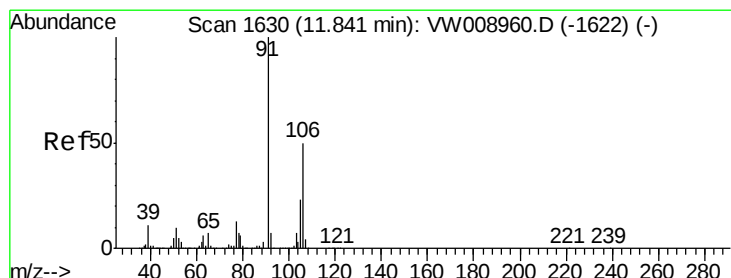
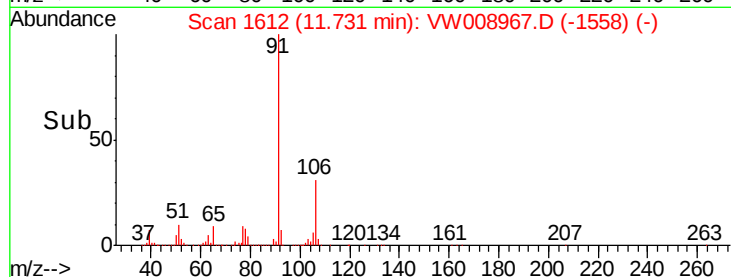
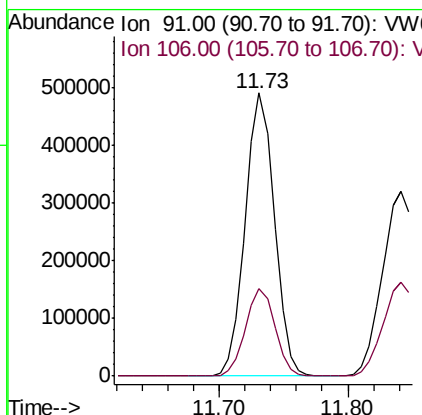
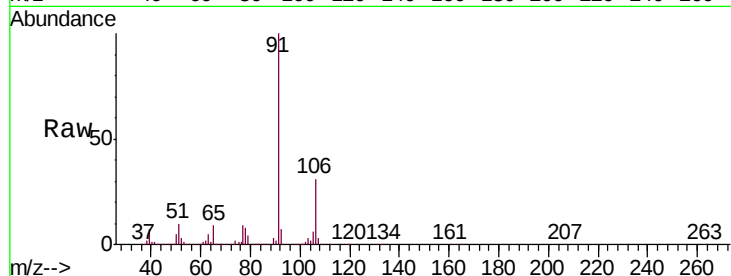




#53
Ethylbenzene
Concen: 25.016 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

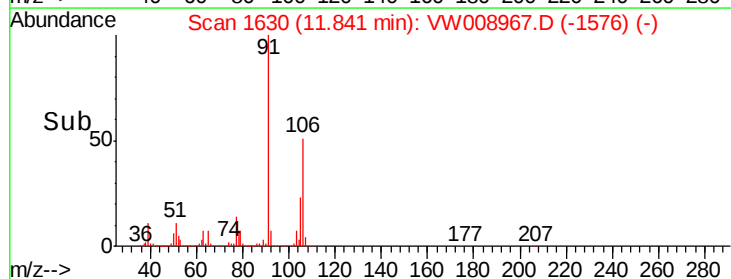
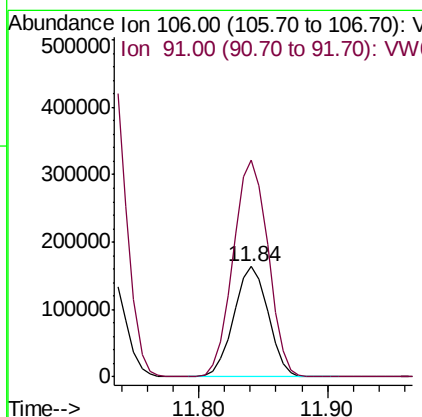
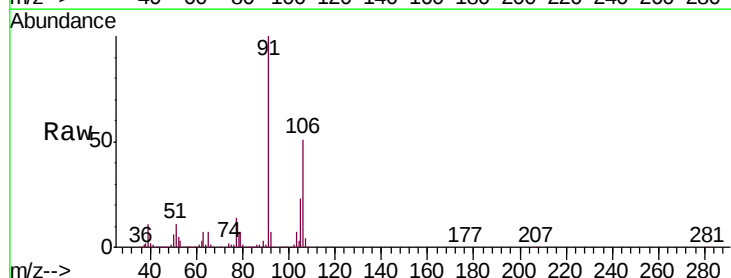
Instrument :
MSVOA_W
ClientSampled :
VSTD02508

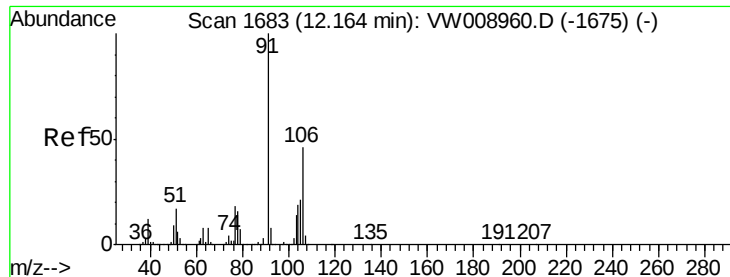
Tgt Ion: 91 Resp: 767332
Ion Ratio Lower Upper
91 100
106 31.0 21.5 39.9



#54
m,p-Xylene
Concen: 25.217 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

Tgt Ion: 106 Resp: 304166
Ion Ratio Lower Upper
106 100
91 196.6 147.8 274.4

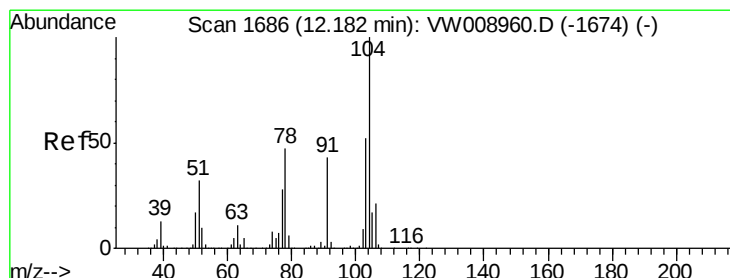
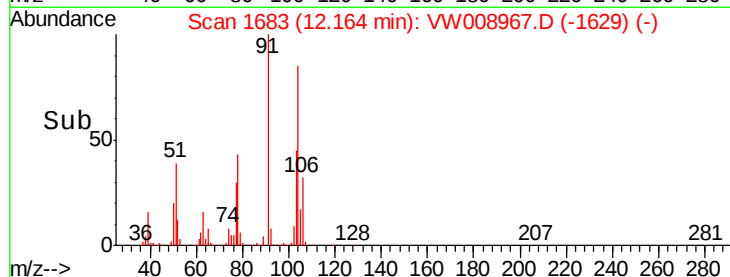
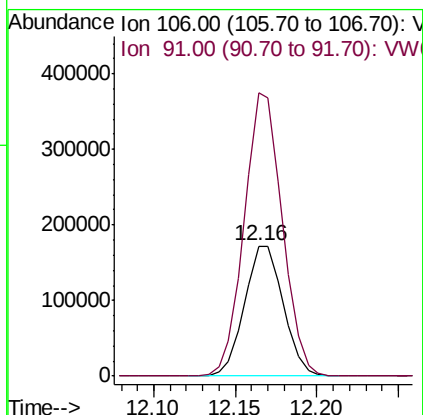
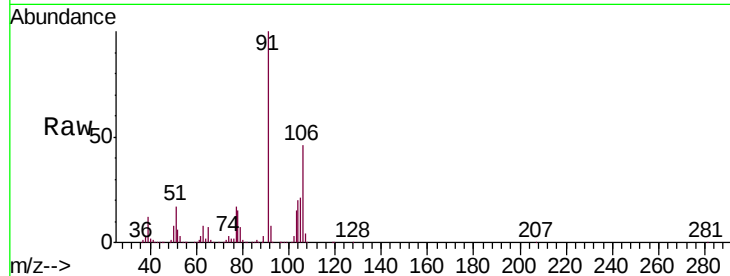




#55
o-xylene
Concen: 24.590 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

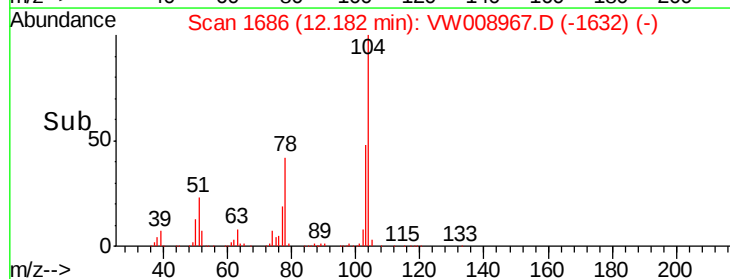
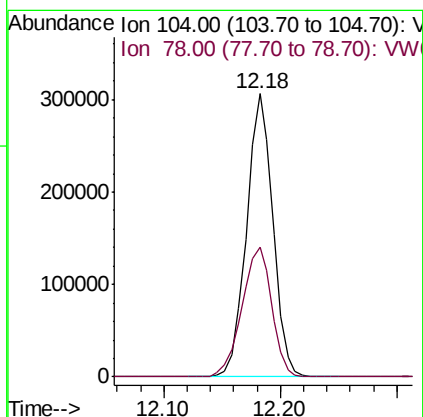
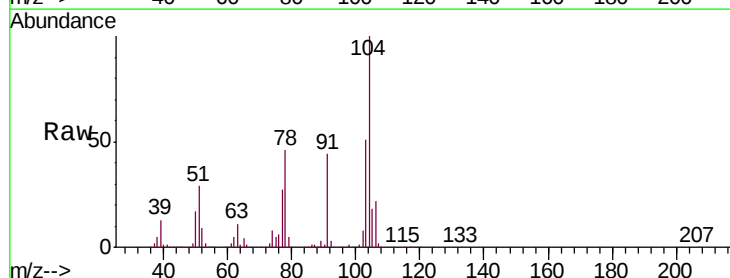
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

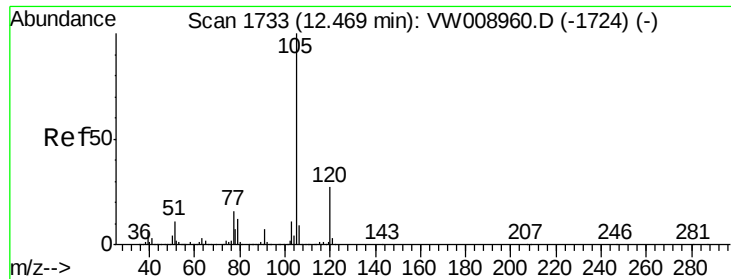
Tgt Ion:106 Resp: 285331
Ion Ratio Lower Upper
106 100
91 217.1 156.0 289.6



#56
Styrene
Concen: 24.834 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW008967.D
Acq: 04 Mar 2019 15:25

Tgt Ion:104 Resp: 483289
Ion Ratio Lower Upper
104 100
78 46.0 34.6 64.3





#57

Isopropylbenzene

Concen: 24.590 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

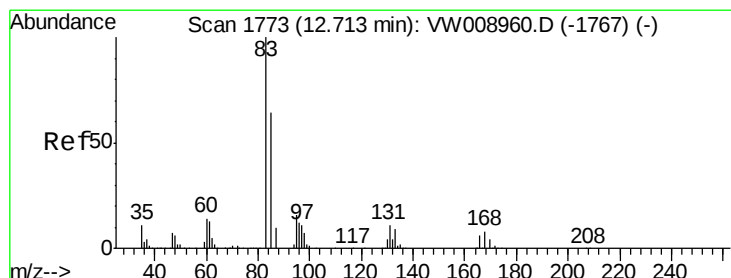
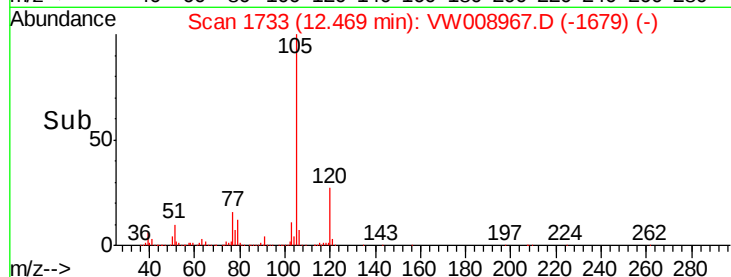
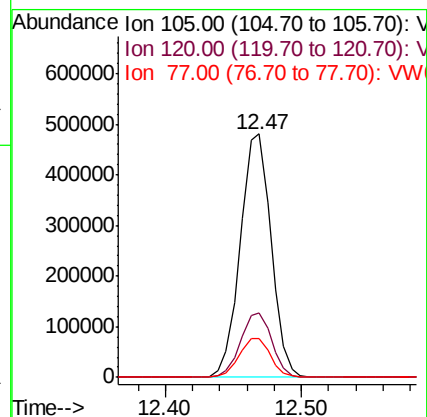
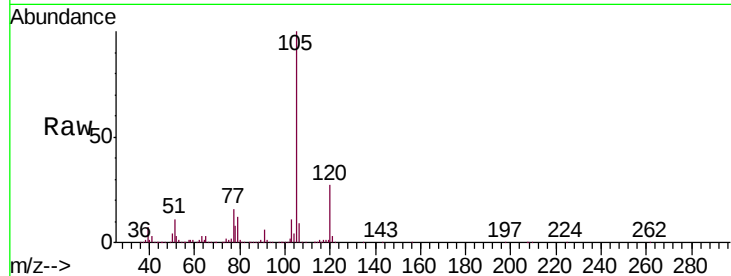
Tgt Ion: 105 Resp: 761156

Ion Ratio Lower Upper

105 100

120 26.6 21.1 31.7

77 16.2 12.4 18.6



#58

1,1,2,2-Tetrachloroethane

Concen: 22.136 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

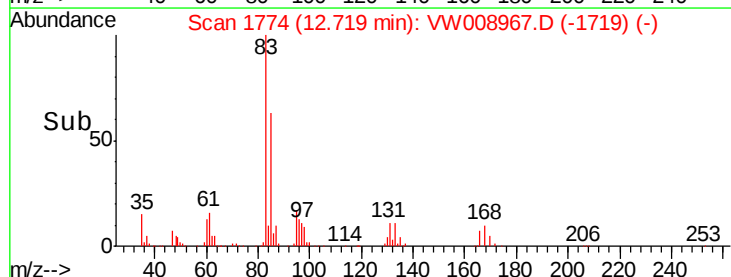
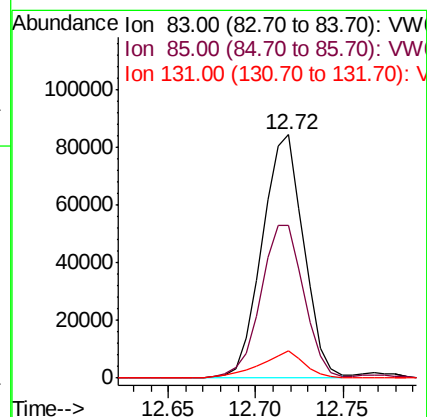
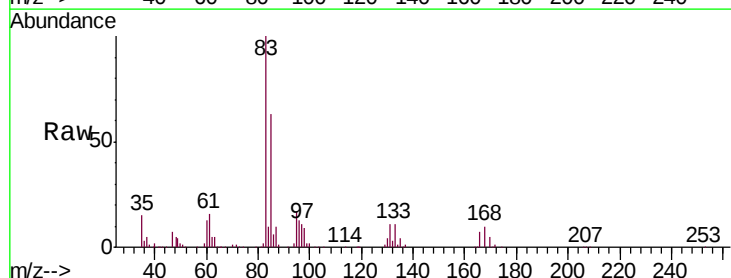
Tgt Ion: 83 Resp: 140846

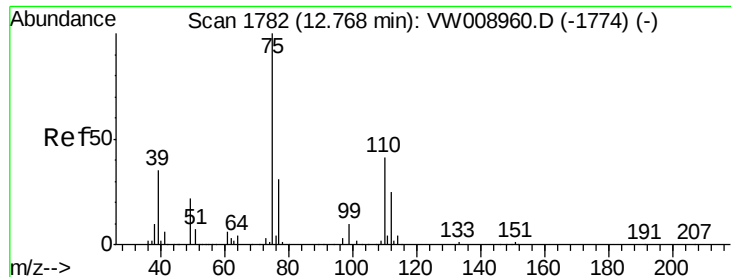
Ion Ratio Lower Upper

83 100

85 62.8 46.6 86.6

131 11.1 9.7 14.5





#59

1,2,3-Trichloropropane

Concen: 21.620 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

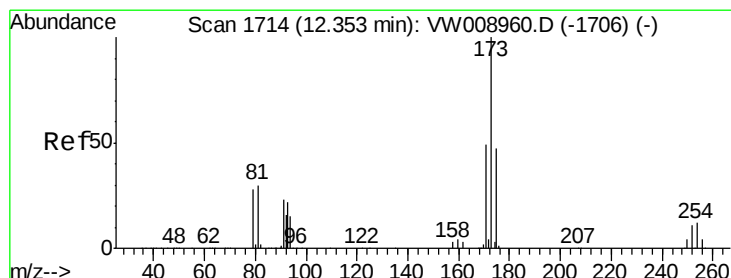
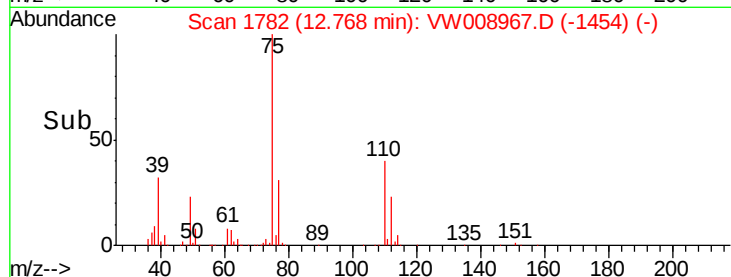
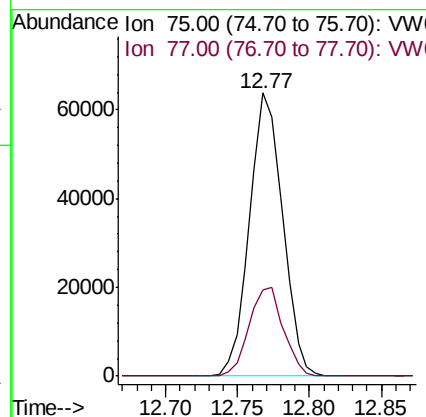
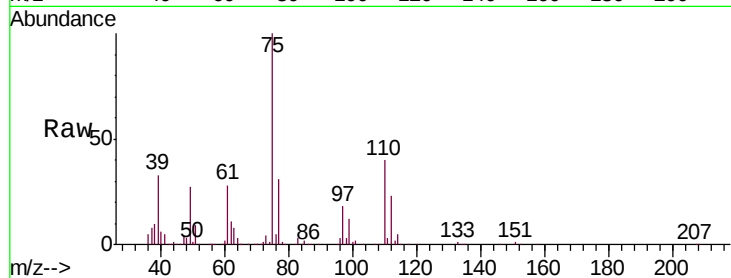
VSTD02508

Tgt Ion: 75 Resp: 101712

Ion Ratio Lower Upper

75 100

77 32.4 25.5 38.3



#62

Bromoform

Concen: 23.182 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

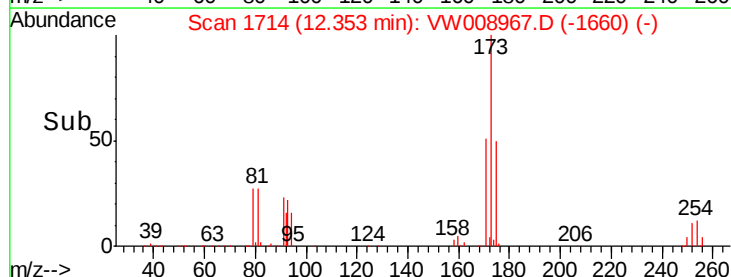
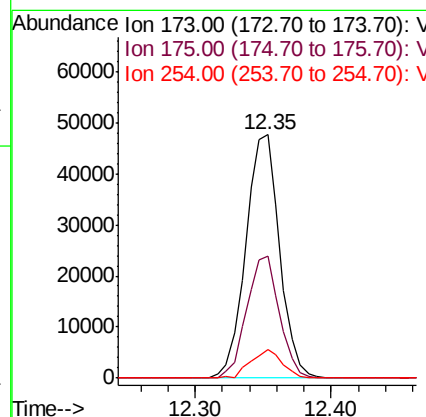
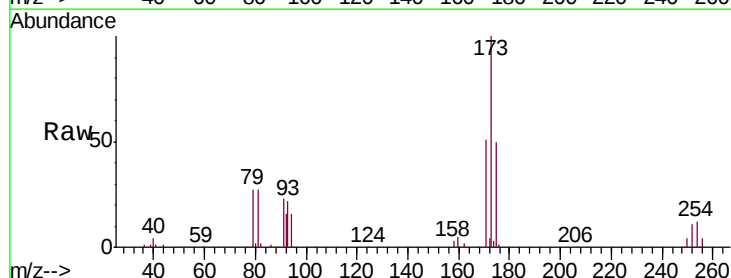
Tgt Ion: 173 Resp: 82417

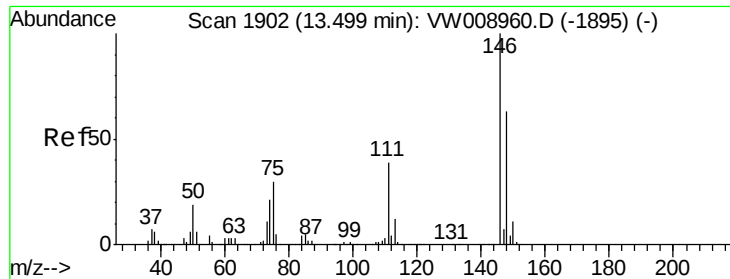
Ion Ratio Lower Upper

173 100

175 48.4 39.0 58.4

254 10.6 5.8 8.8#

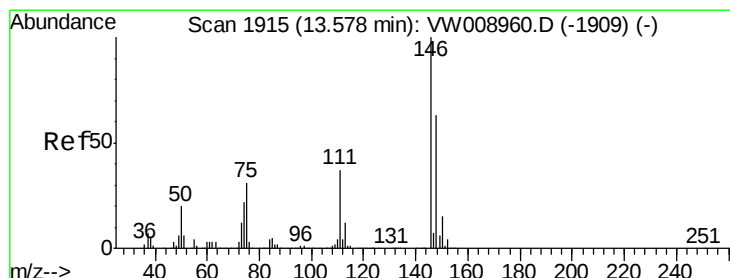
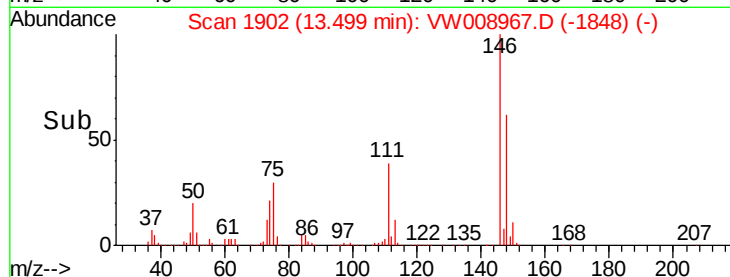
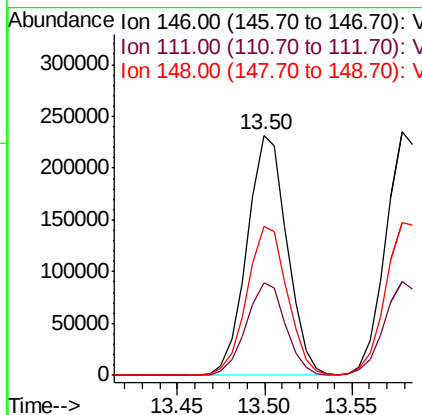
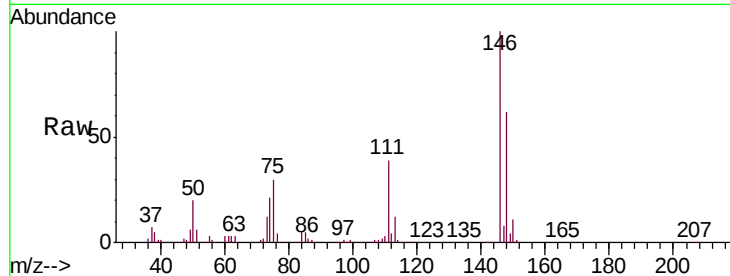




#63
 1,3-Dichlorobenzene
 Concen: 24.561 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

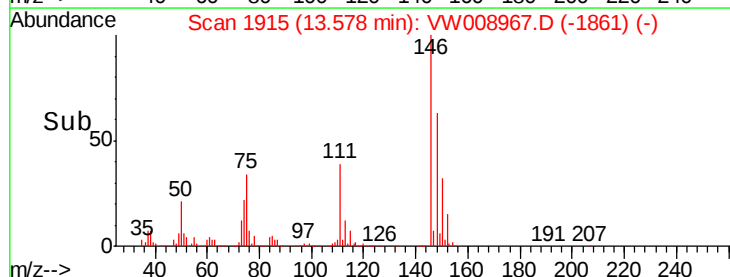
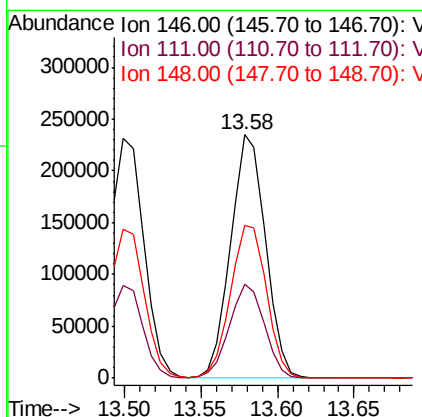
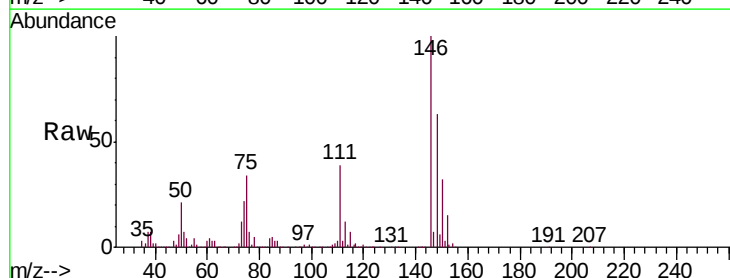
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

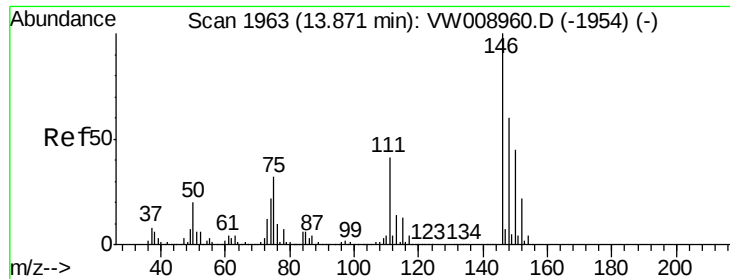
Tgt Ion:146 Resp: 368117
 Ion Ratio Lower Upper
 146 100
 111 38.5 31.0 57.6
 148 61.9 43.6 81.0



#64
 1,4-Dichlorobenzene
 Concen: 24.451 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

Tgt Ion:146 Resp: 372295
 Ion Ratio Lower Upper
 146 100
 111 38.6 26.9 49.9
 148 63.0 41.6 77.3





#65

1,2-Dichlorobenzene

Concen: 25.063 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

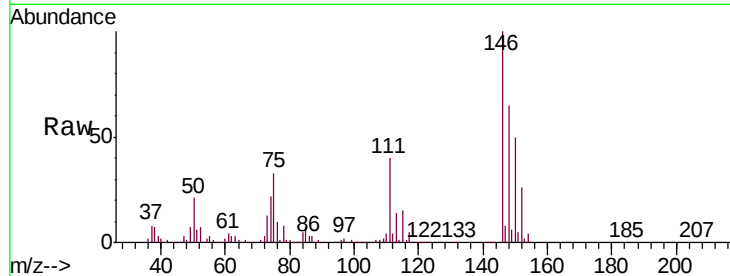
Tgt Ion:146 Resp: 347931

Ion Ratio Lower Upper

146 100

111 39.9 36.4 54.6

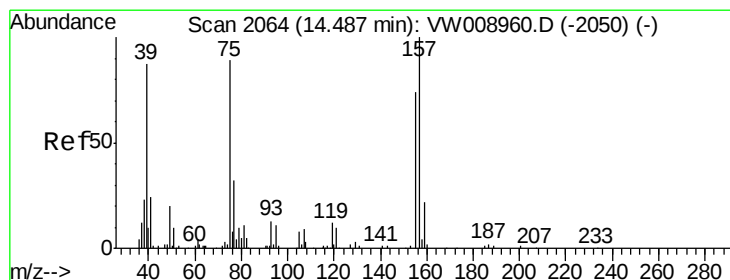
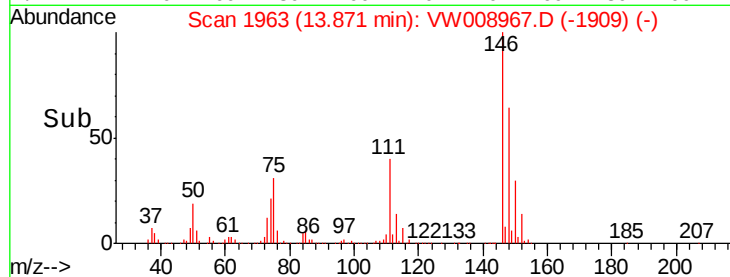
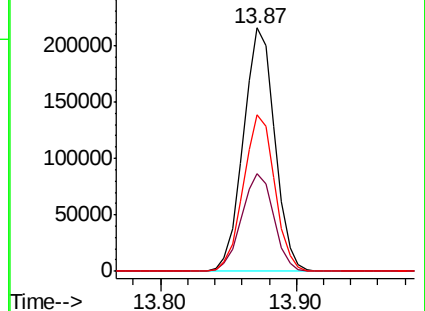
148 64.5 51.0 76.4



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: 21.763 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

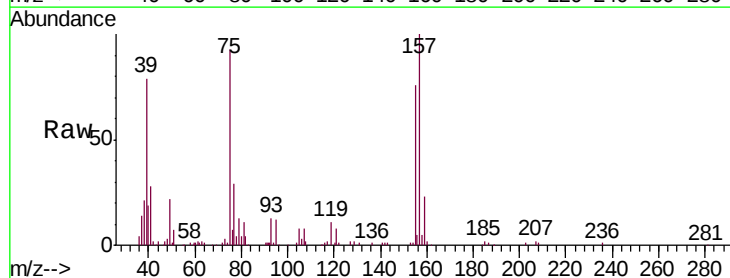
Tgt Ion: 75 Resp: 26826

Ion Ratio Lower Upper

75 100

157 107.3 85.6 128.4

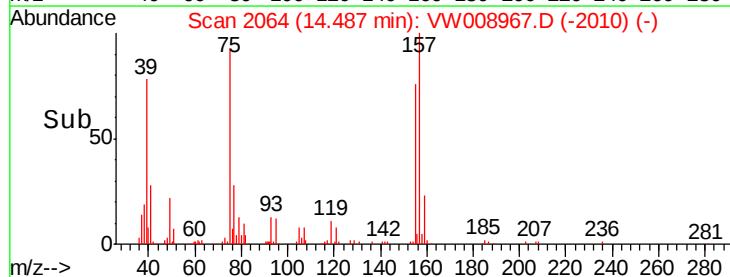
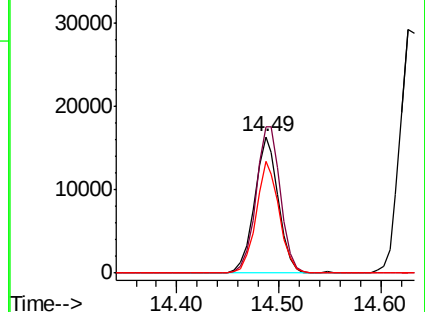
155 81.7 63.4 95.0

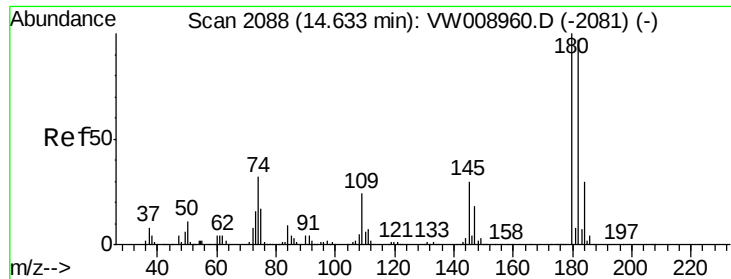


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

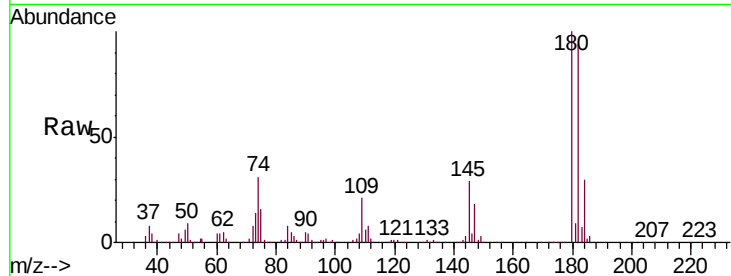




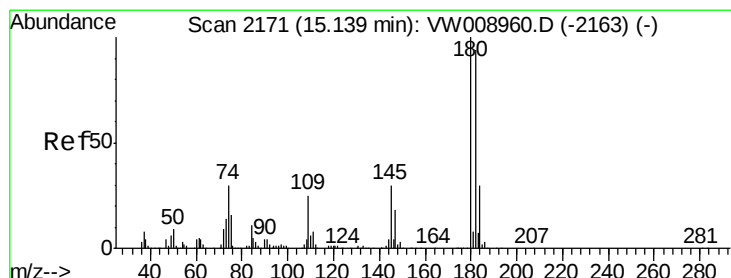
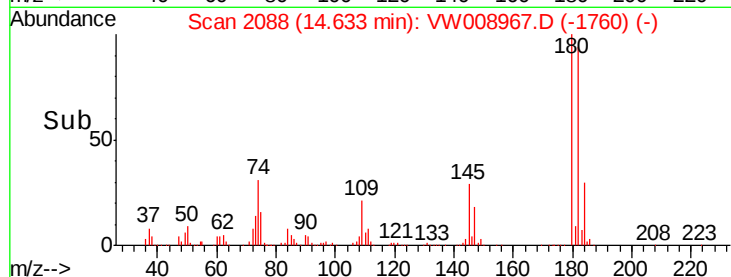
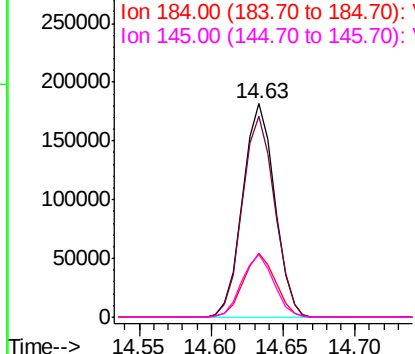
#67
 1,3,5-Trichlorobenzene
 Concen: 23.848 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

Tgt Ion:	180	Resp:	281415
Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.0	112.4
184	29.7	23.5	35.3
145	29.1	26.6	39.8

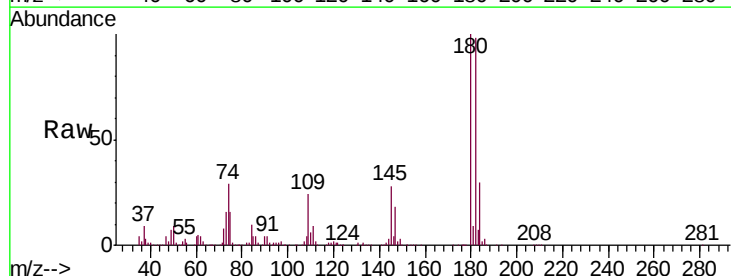


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

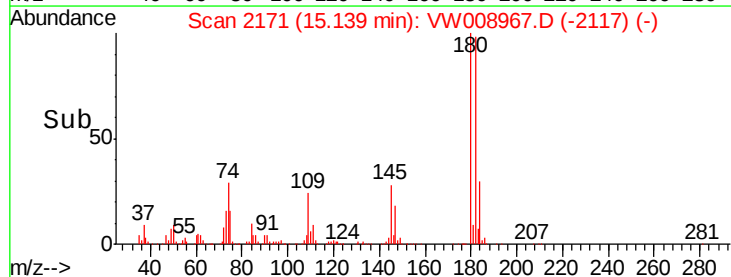
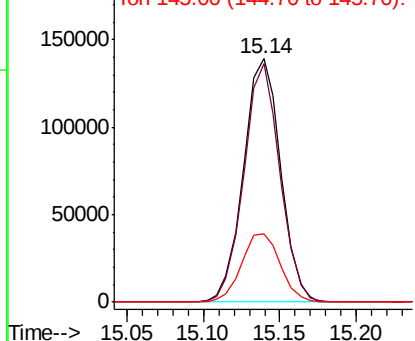


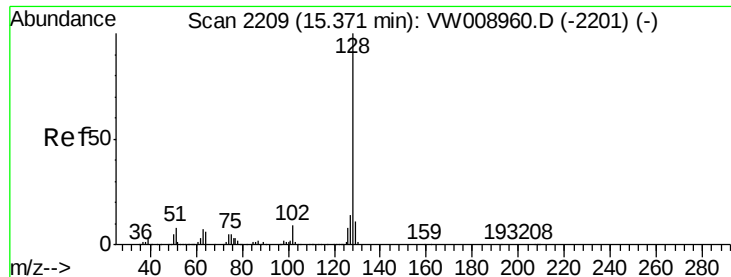
#68
 1,2,4-trichlorobenzene
 Concen: 23.123 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW008967.D
 Acq: 04 Mar 2019 15:25

Tgt Ion:	180	Resp:	235030
Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.0	115.6
145	29.3	27.9	41.9



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: 20.312 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

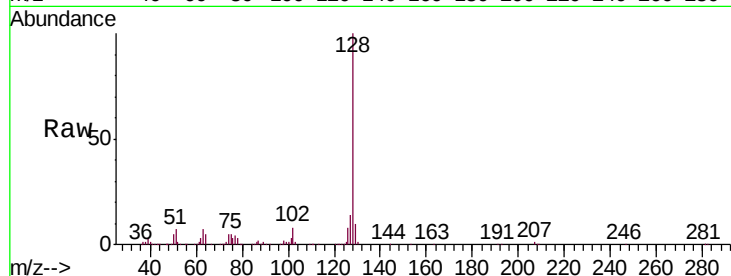
Tgt Ion:128 Resp: 425035

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

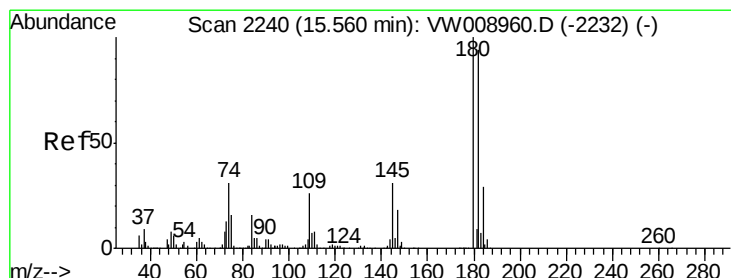
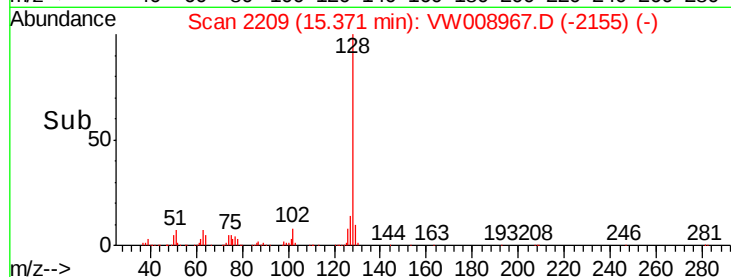
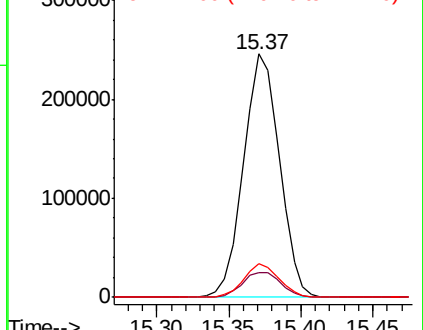
127 13.4 11.1 16.7



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: 23.060 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW008967.D

Acq: 04 Mar 2019 15:25

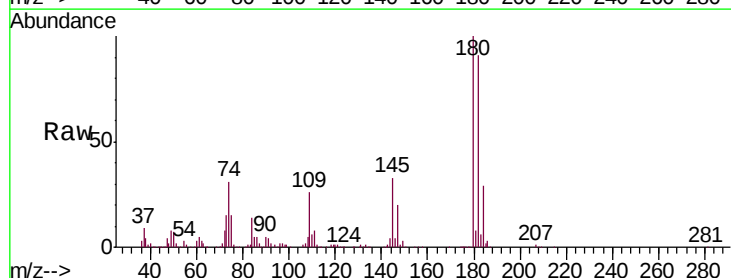
Tgt Ion:180 Resp: 215386

Ion Ratio Lower Upper

180 100

182 94.5 75.8 113.6

145 31.4 29.4 44.2



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

