

Data File : VW009549.D
Acq On : 28 Mar 2019 20:45
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02502

Quant Time: Mar 29 05:41:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 29 05:35:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	407475	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	395095	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	207170	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	96129	19.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.96%
7) Chloroethane-d5	2.89	69	112572	19.76	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.04%
10) 1,1-Dichloroethene-d2	4.02	63	237639	22.58	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	90.32%
20) 2-Butanone-d5	7.08	46	91939	45.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.32%
24) Chloroform-d	7.64	84	272962	24.55	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	8.31	65	162720	24.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.16%
29) Benzene-d6	8.27	84	486737	22.34	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.36%
33) 1,2-Dichloropropane-d6	9.27	67	155691	23.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.16%
37) Toluene-d8	10.32	98	443817	22.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.12%
38) trans-1,3-Dichloropropene-	10.58	79	70789	21.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.16%
39) 2-Hexanone-d5	10.93	63	75884	47.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.76%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	159781	24.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.16%
61) 1,2-Dichlorobenzene-d4	13.86	152	179717	22.62	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.48%

Target Compounds

					Qvalue
3) Chloromethane	2.21	50	128341	22.535 ug/L	96
5) Vinyl chloride	2.37	62	169398	28.898 ug/L	100
6) Bromomethane	2.78	94	127039	25.868 ug/L	100
8) Chloroethane	2.93	64	122932	25.348 ug/L	93
9) Trichlorofluoromethane	3.26	101	93540	20.202 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	131043	24.506 ug/L #	95
12) 1,1-Dichloroethene	4.04	96	133518	26.609 ug/L	83
13) Acetone	4.14	43	71645	43.385 ug/L	99
14) Carbon disulfide	4.38	76	367707	27.229 ug/L	99
15) Methyl Acetate	4.67	43	74295	22.901 ug/L	100
16) Methylene chloride	4.92	84	154337	25.973 ug/L	99
17) Methyl tert-butyl Ether	5.43	73	183549	25.853 ug/L #	89
18) trans-1,2-Dichloroethene	5.42	96	134329	25.463 ug/L	93
19) 1,1-Dichloroethane	6.21	63	267010	27.758 ug/L	98
21) 2-Butanone	7.17	43	103224	45.270 ug/L	95
22) cis-1,2-Dichloroethene	7.17	96	152236	26.639 ug/L	95
23) Bromochloromethane	7.51	128	69213	25.251 ug/L	93

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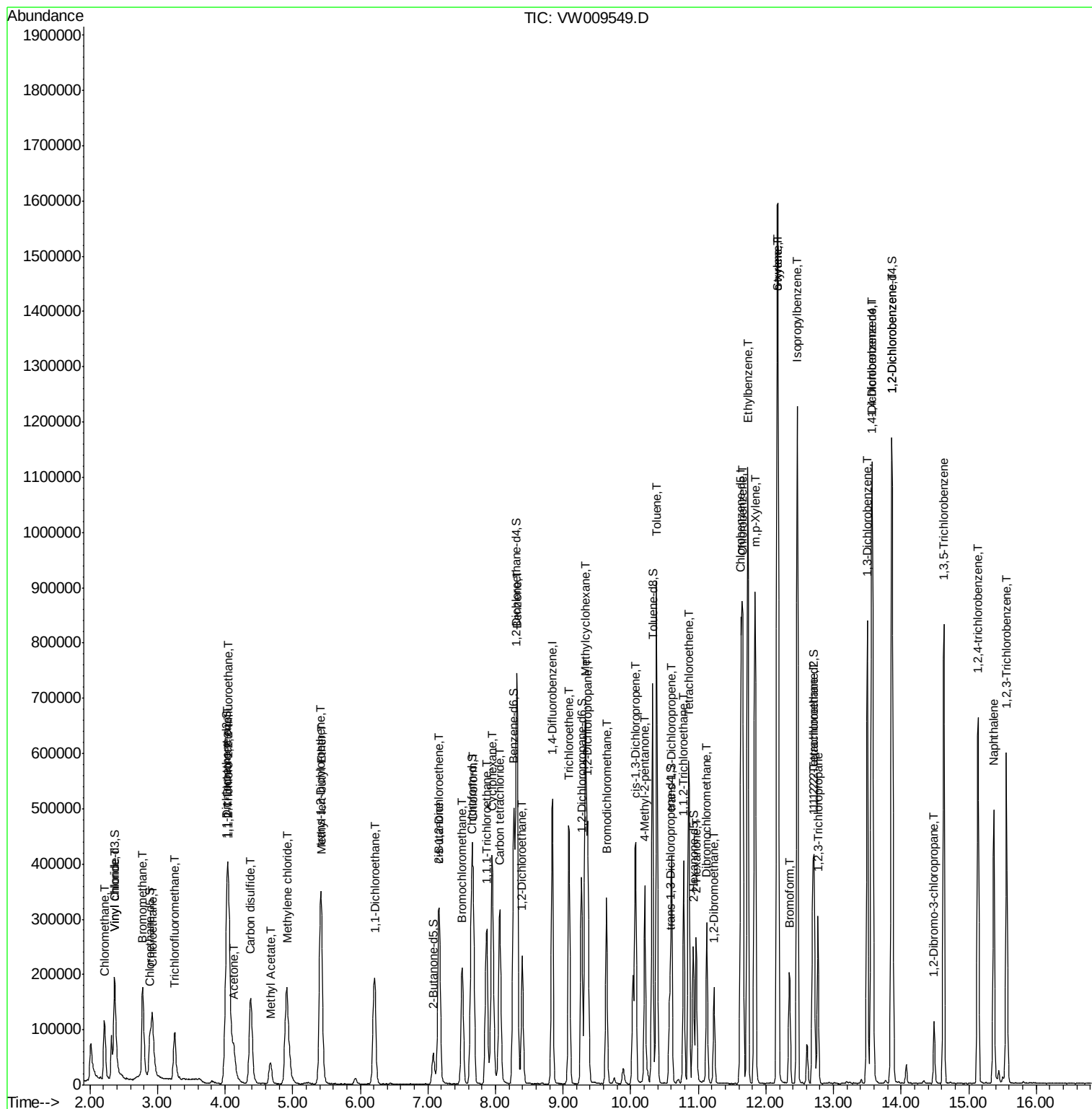
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	283737	28.167	ug/L	99
27) 1,2-Dichloroethane	8.40	62	209897	27.947	ug/L	98
30) Cyclohexane	7.95	56	228130	25.424	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	223391	28.310	ug/L	99
32) Carbon tetrachloride	8.06	117	223053	28.016	ug/L	98
34) Benzene	8.32	78	586305	27.112	ug/L	100
35) Trichloroethene	9.09	95	149928	26.019	ug/L	99
36) Methylcyclohexane	9.33	83	248388	24.915	ug/L	98
40) 1,2-Dichloropropane	9.37	63	147967	26.664	ug/L	99
41) Bromodichloromethane	9.64	83	206222	26.821	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	231981	25.667	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	233254	46.387	ug/L	99
44) Toluene	10.38	91	641683	27.139	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	199169	25.332	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	113476	25.632	ug/L	99
47) Tetrachloroethene	10.86	164	121416	24.937	ug/L	96
49) 2-Hexanone	10.97	43	167818	47.385	ug/L	99
50) Dibromochloromethane	11.13	129	141745	25.936	ug/L	93
51) 1,2-Dibromoethane	11.23	107	109618	24.424	ug/L	95
52) Chlorobenzene	11.66	112	400998	26.442	ug/L	98
53) Ethylbenzene	11.73	91	730398	27.477	ug/L	98
54) m,p-Xylene	11.84	106	273188	27.050	ug/L	95
55) o-xylene	12.16	106	264548	26.851	ug/L	100
56) Styrene	12.18	104	464784	27.649	ug/L	99
57) Isopropylbenzene	12.46	105	727927	27.581	ug/L	99
58) 1,1,1,2-Tetrachloroethane	12.71	83	155670	26.065	ug/L	95
59) 1,2,3-Trichloropropane	12.77	75	111224	25.094	ug/L	99
62) Bromoform	12.35	173	86299	24.654	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	313795	25.415	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	332866	26.076	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	306495	26.029	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	26686	23.125	ug/L	87
67) 1,3,5-Trichlorobenzene	14.63	180	243194	25.252	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	197582	24.425	ug/L	100
69) Naphthalene	15.37	128	402078	23.974	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	191107	25.223	ug/L	98

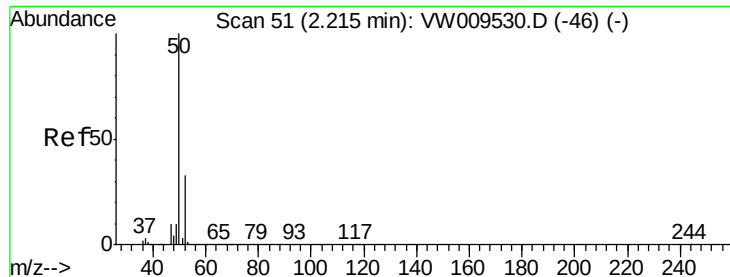
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 22.535 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

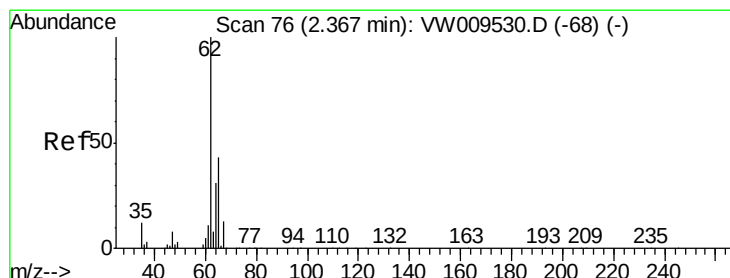
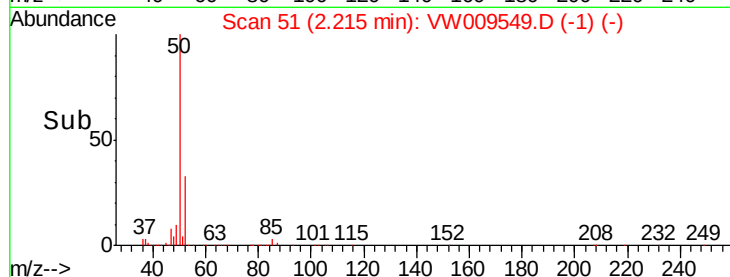
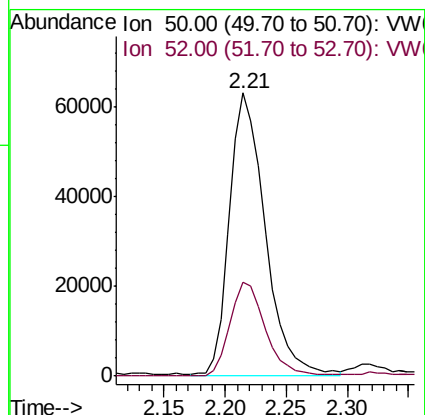
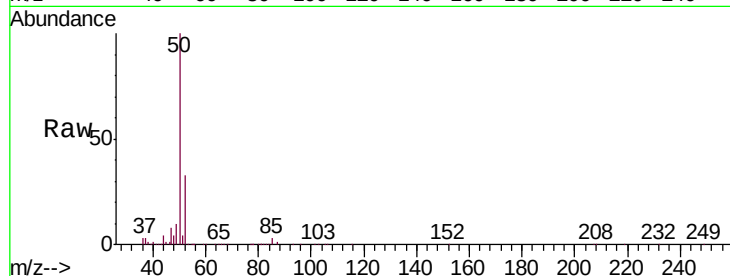
VSTD02502

Tgt Ion: 50 Resp: 128341

Ion Ratio Lower Upper

50 100

52 33.1 21.6 40.2



#5

Vinyl chloride

Concen: 28.898 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW009549.D

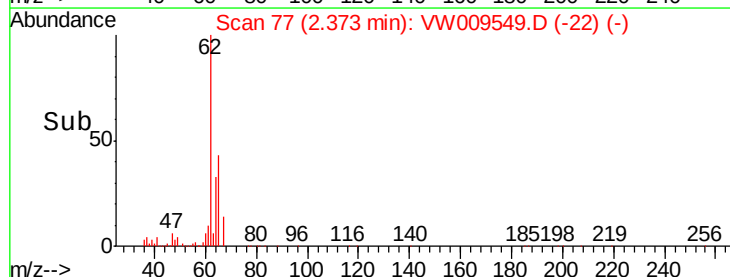
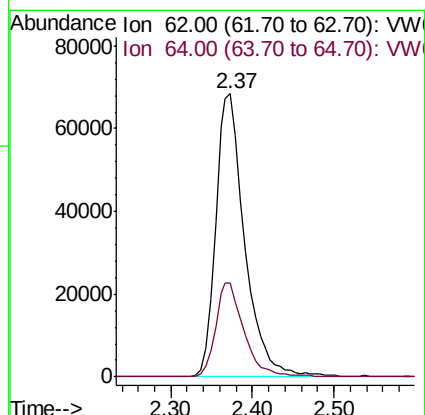
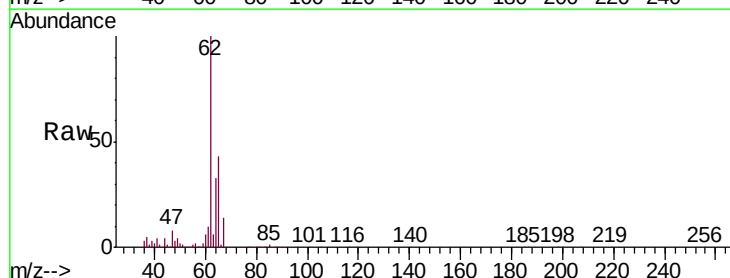
Acq: 28 Mar 2019 20:45

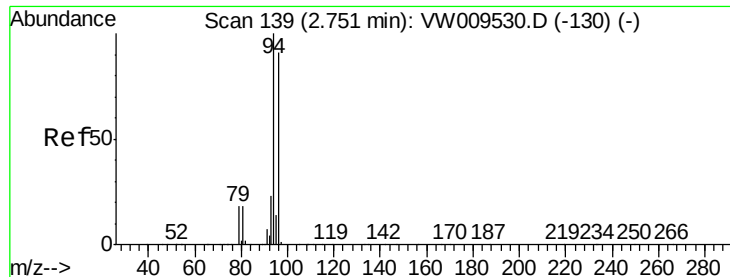
Tgt Ion: 62 Resp: 169398

Ion Ratio Lower Upper

62 100

64 33.0 23.0 42.6





#6

Bromomethane

Concen: 25.868 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.03 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

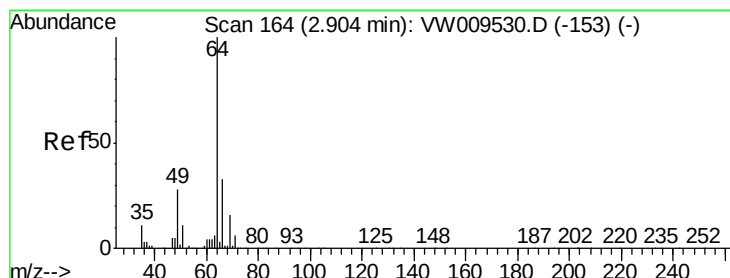
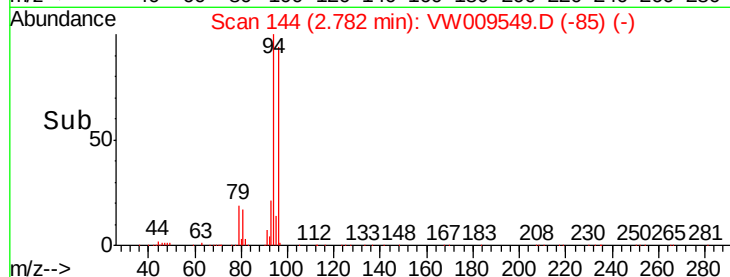
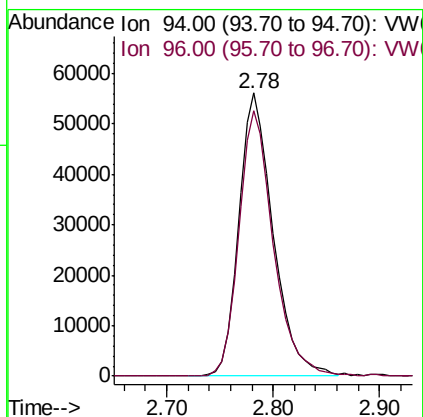
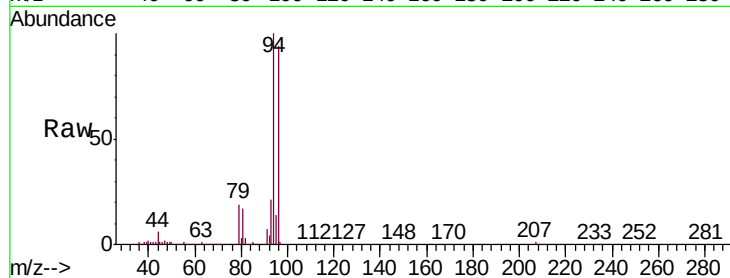
VSTD02502

Tgt Ion: 94 Resp: 127039

Ion Ratio Lower Upper

94 100

96 94.1 9.4 178.4



#8

Chloroethane

Concen: 25.348 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.02 min

Lab File: VW009549.D

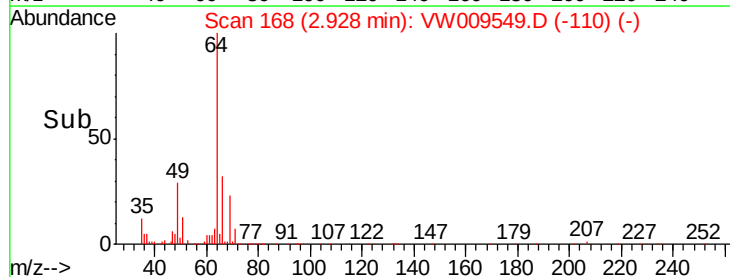
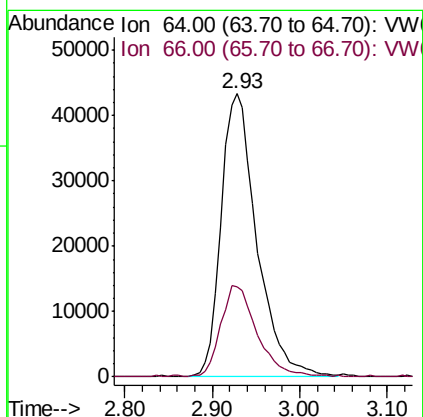
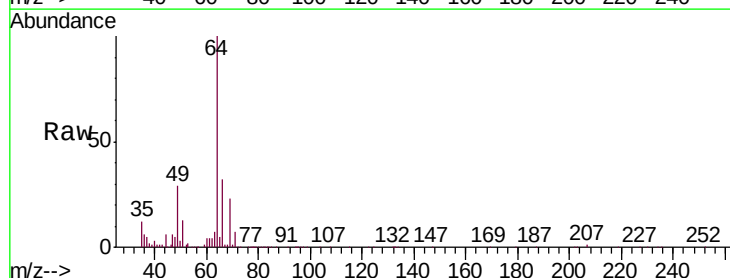
Acq: 28 Mar 2019 20:45

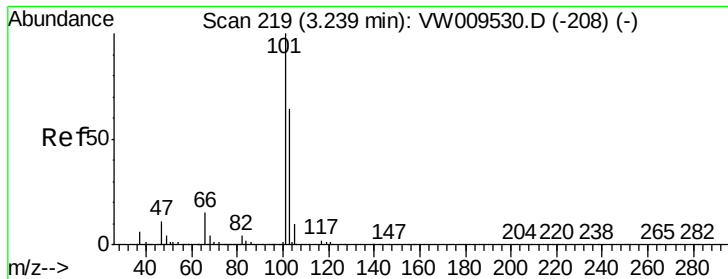
Tgt Ion: 64 Resp: 122932

Ion Ratio Lower Upper

64 100

66 32.0 25.1 46.7



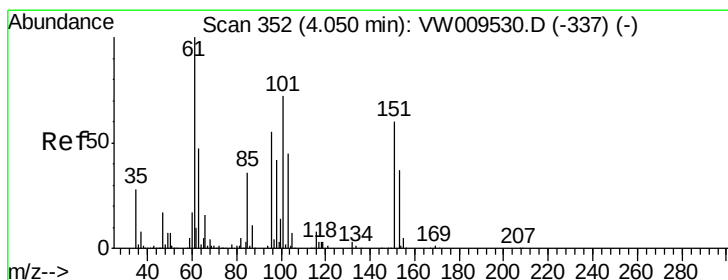
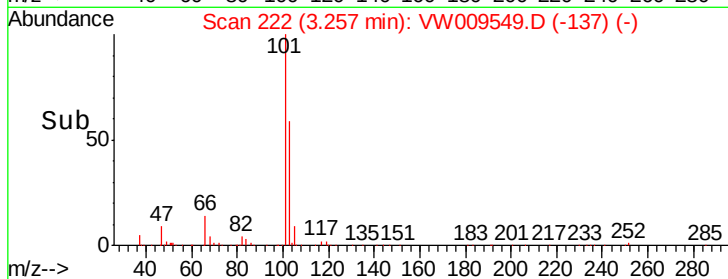
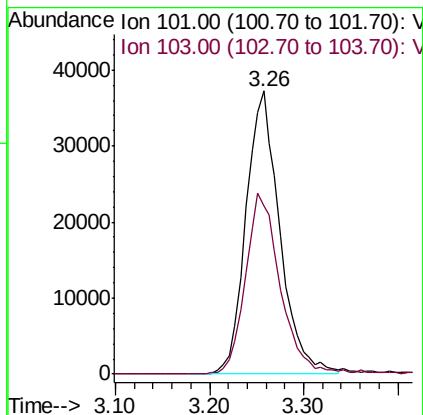
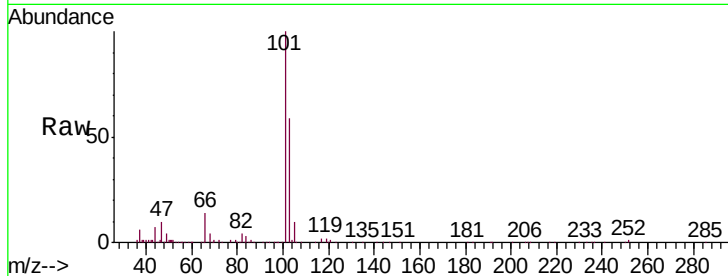


#9

Trichlorofluoromethane
 Concen: 20.202 ug/L
 RT: 3.26 min Scan# 222
 Delta R.T. 0.02 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02502

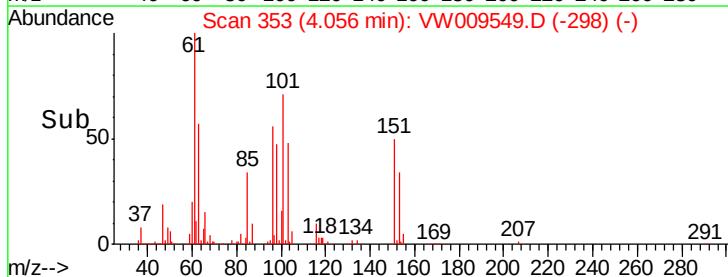
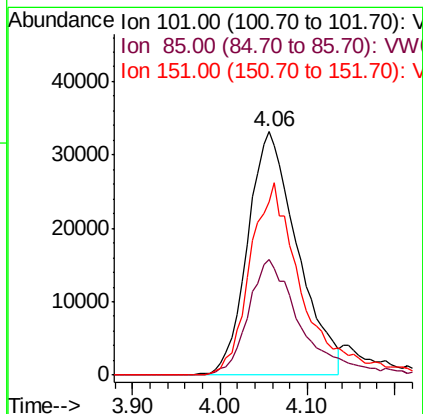
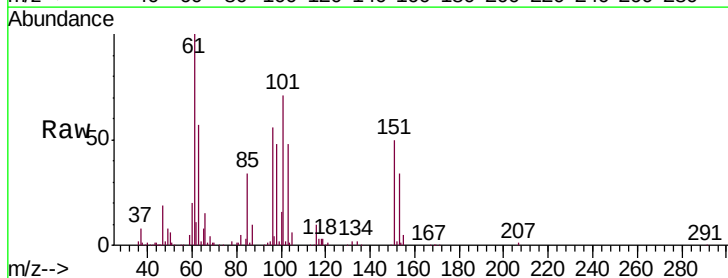
Tgt Ion:101 Resp: 93540
 Ion Ratio Lower Upper
 101 100
 103 65.2 45.0 83.6

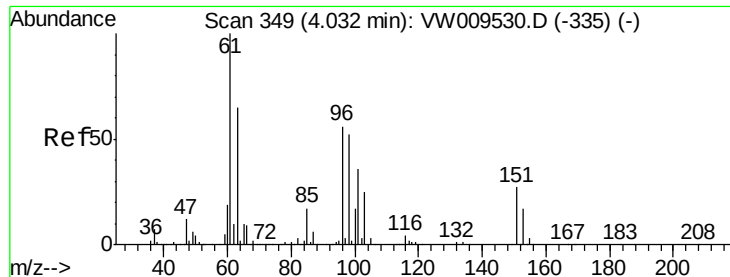


#11

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 24.506 ug/L
 RT: 4.06 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

Tgt Ion:101 Resp: 131043
 Ion Ratio Lower Upper
 101 100
 85 49.0 32.6 48.8#
 151 80.3 63.3 94.9

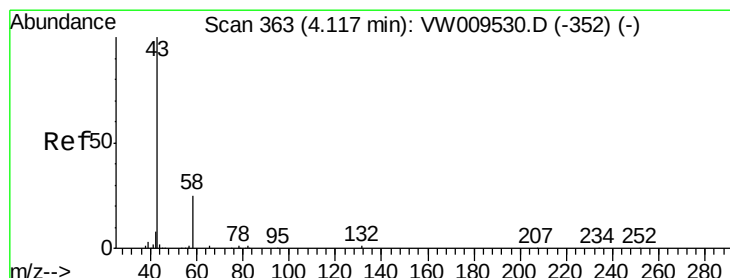
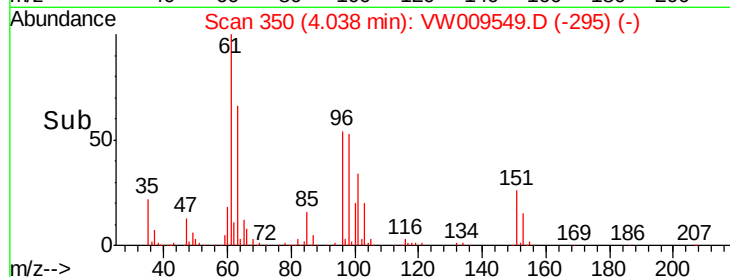
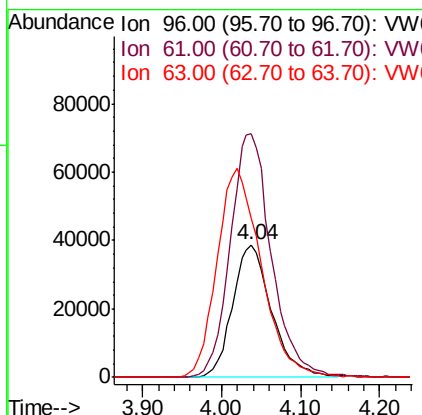
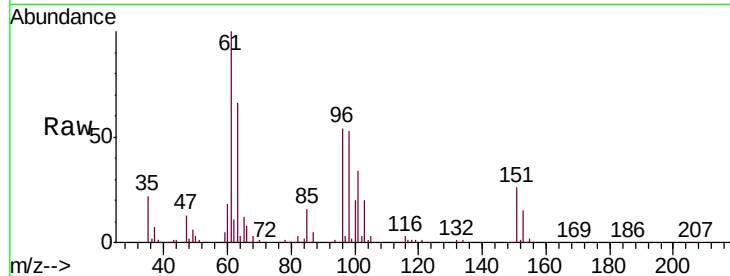




#12
 1,1-Dichloroethene
 Concen: 26.609 ug/L
 RT: 4.04 min Scan# 350
 Delta R.T. 0.01 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

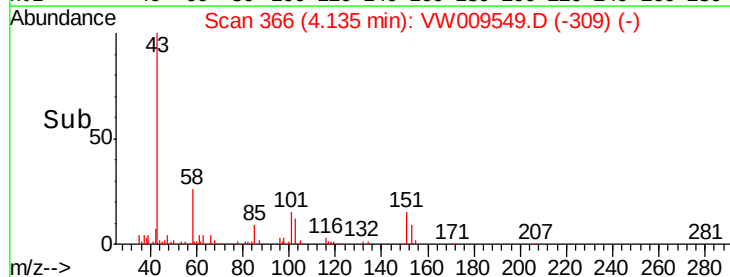
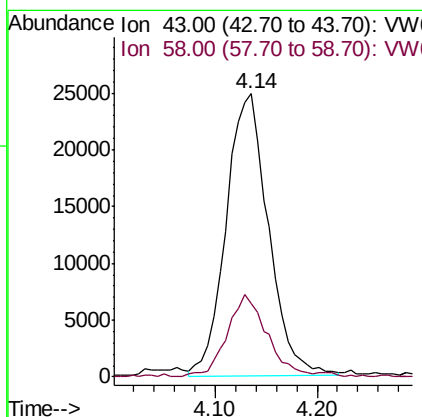
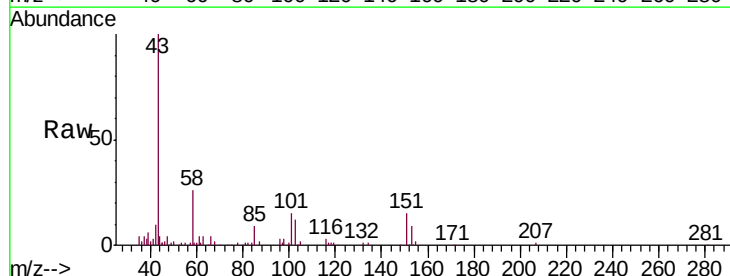
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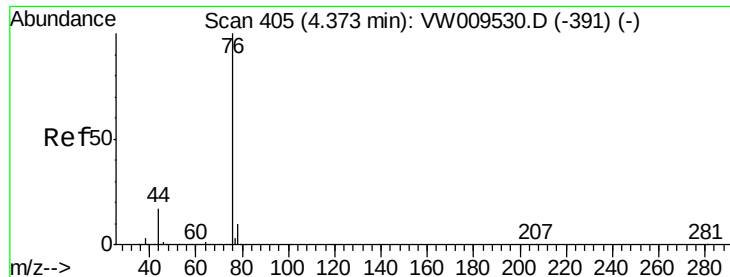
Tgt Ion: 96 Resp: 133518
 Ion Ratio Lower Upper
 96 100
 61 183.7 129.4 240.2
 63 120.5 116.8 217.0



#13
 Acetone
 Concen: 43.385 ug/L
 RT: 4.14 min Scan# 366
 Delta R.T. 0.02 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

Tgt Ion: 43 Resp: 71645
 Ion Ratio Lower Upper
 43 100
 58 27.5 0.0 56.2

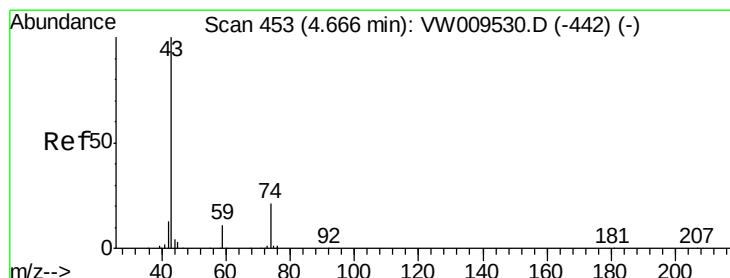
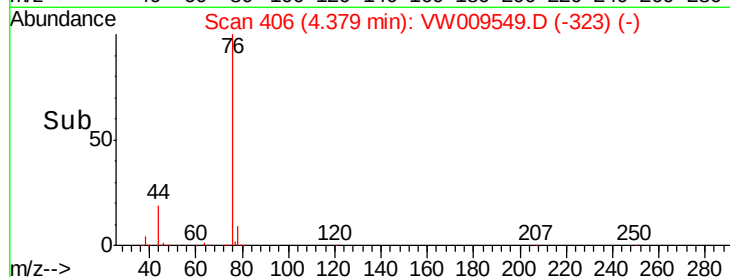
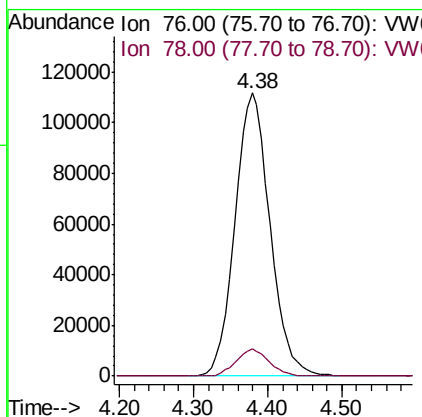
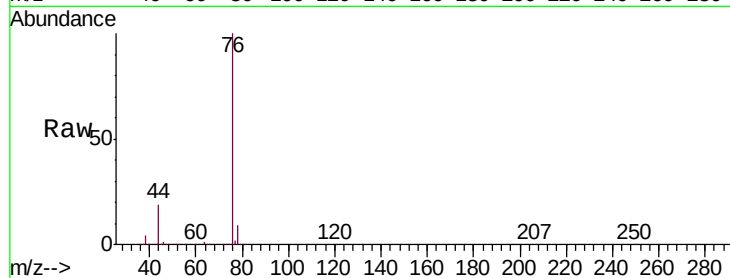




#14
Carbon disulfide
Concen: 27.229 ug/L
RT: 4.38 min Scan# 406
Delta R.T. 0.01 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

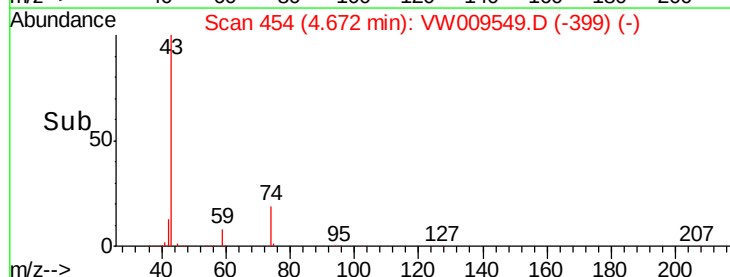
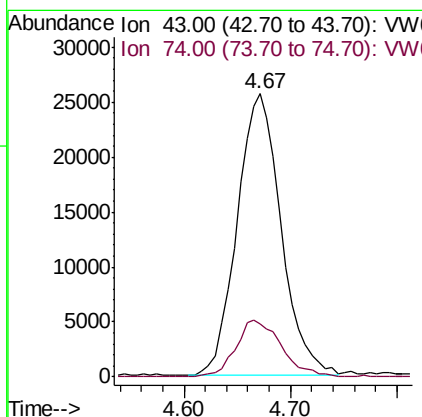
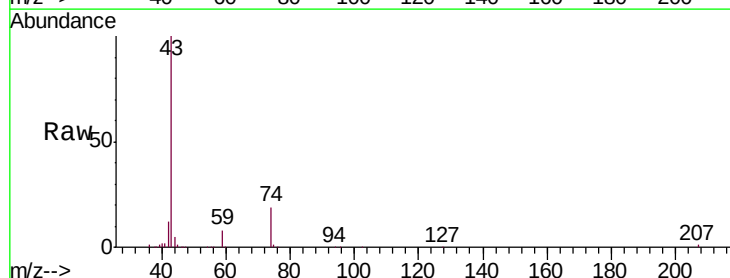
Instrument :
MSVOA_W
ClientSampleId :
VSTD02502

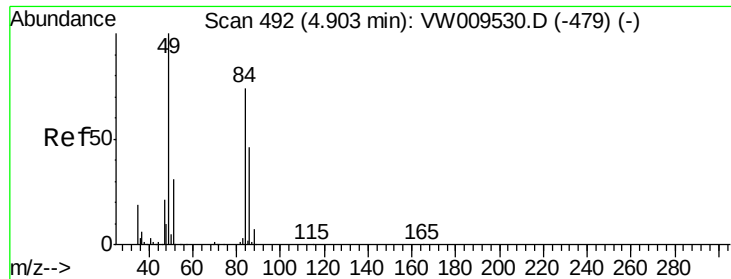
Tgt Ion: 76 Resp: 367707
Ion Ratio Lower Upper
76 100
78 9.5 7.3 10.9



#15
Methyl Acetate
Concen: 22.901 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

Tgt Ion: 43 Resp: 74295
Ion Ratio Lower Upper
43 100
74 20.9 16.7 25.1

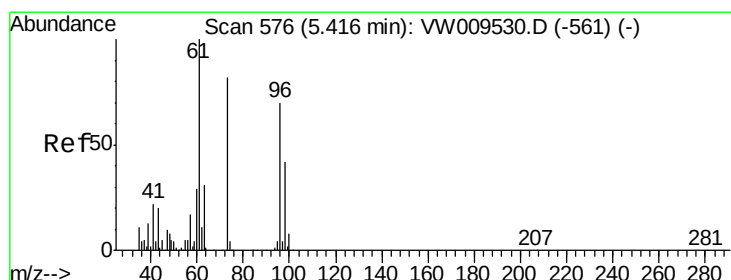
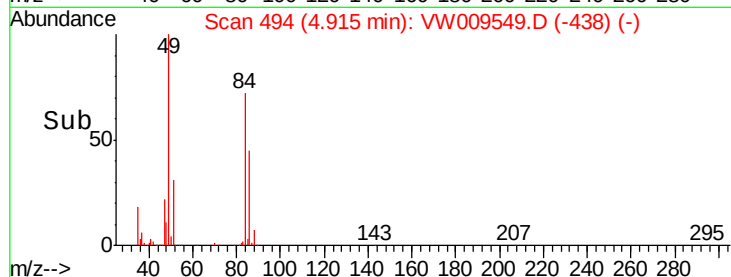
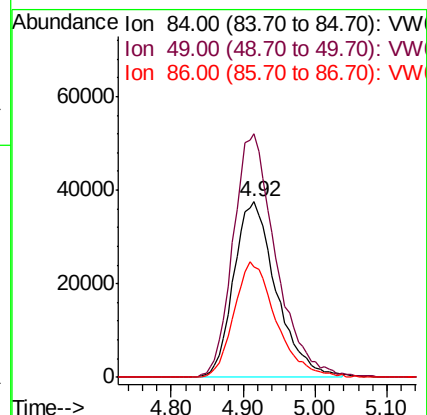
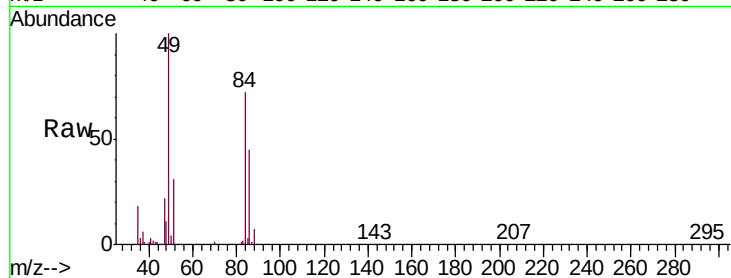




#16
Methylene chloride
Concen: 25.973 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

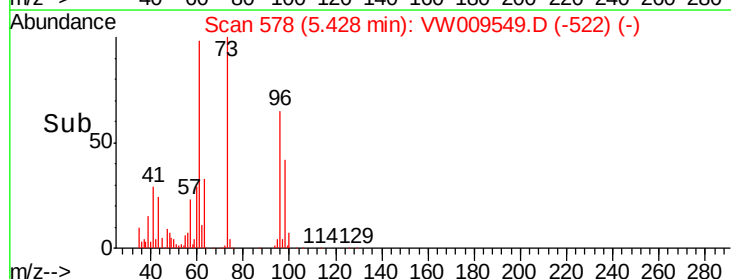
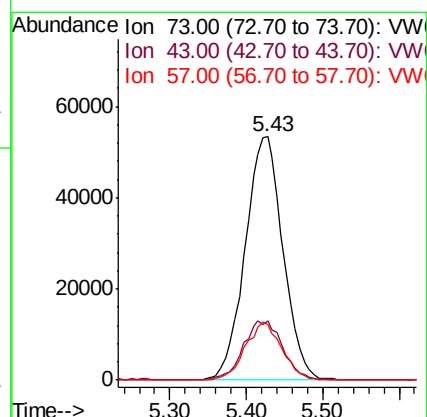
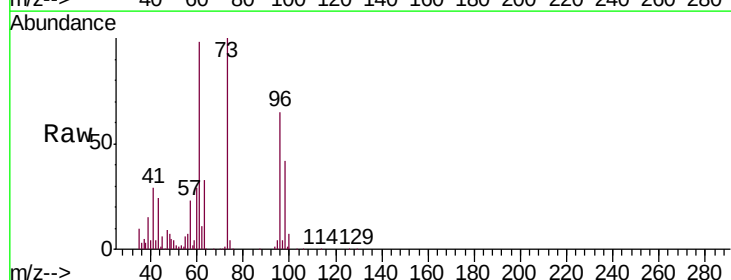
Instrument :
MSVOA_W
ClientSampleId :
VSTD02502

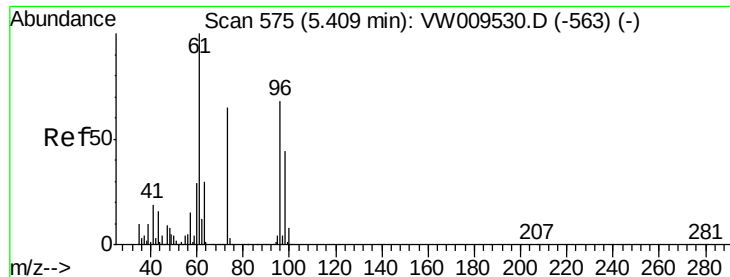
Tgt Ion: 84 Resp: 154337
Ion Ratio Lower Upper
84 100
49 138.8 96.0 178.2
86 62.7 44.4 82.5



#17
Methyl tert-butyl Ether
Concen: 25.853 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

Tgt Ion: 73 Resp: 183549
Ion Ratio Lower Upper
73 100
43 13.2 18.2 27.4#
57 23.0 17.8 26.8





#18

trans-1,2-Dichloroethene

Concen: 25.463 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.01 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

VSTD02502

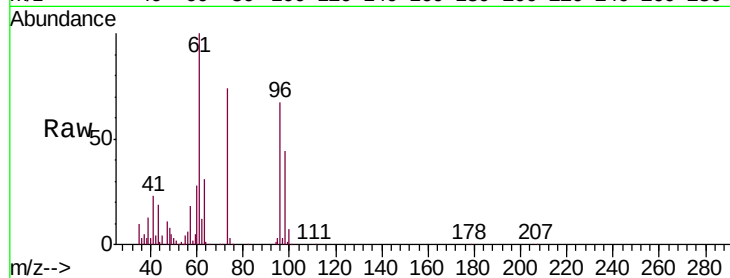
Tgt Ion: 96 Resp: 134329

Ion Ratio Lower Upper

96 100

61 149.2 96.7 179.5

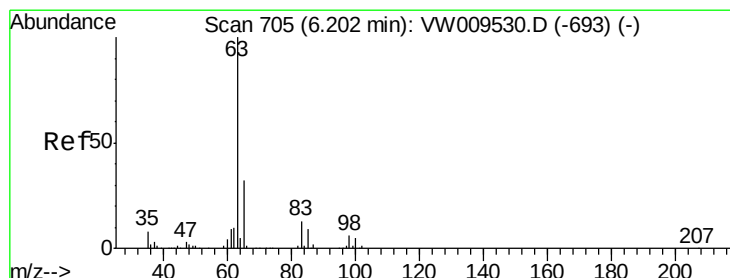
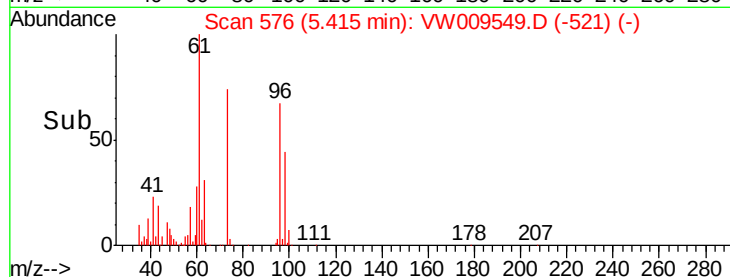
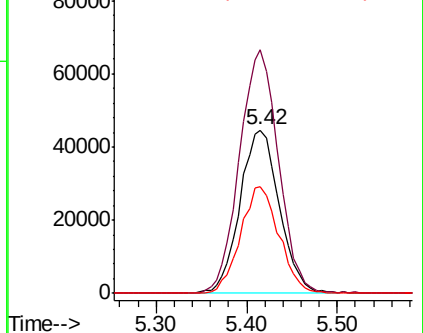
98 65.3 43.8 81.4



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



#19

1,1-Dichloroethane

Concen: 27.758 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.01 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

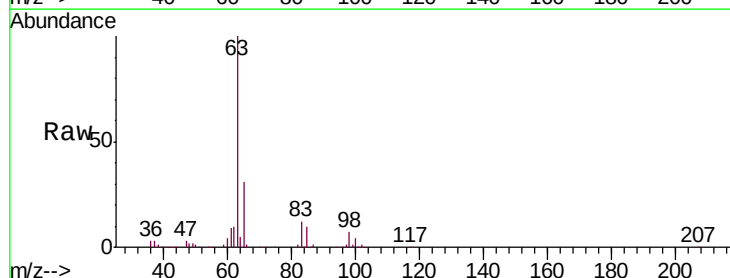
Tgt Ion: 63 Resp: 267010

Ion Ratio Lower Upper

63 100

65 31.0 21.6 40.0

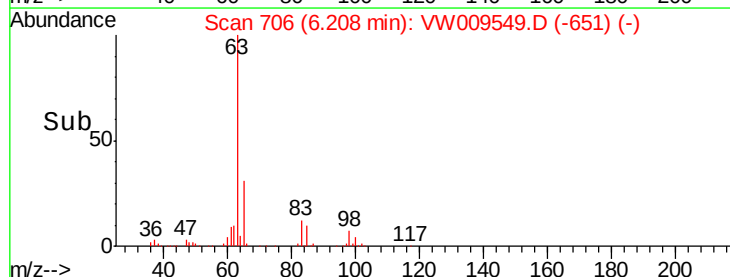
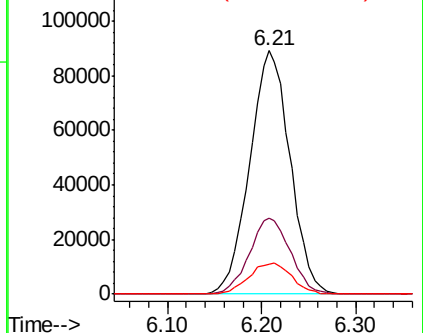
83 12.3 10.1 18.7

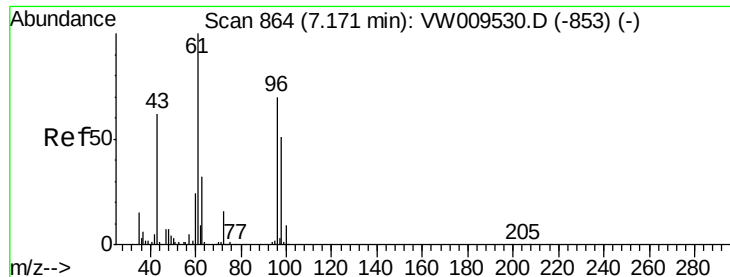


Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW





#21

2-Butanone

Concen: 45.270 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

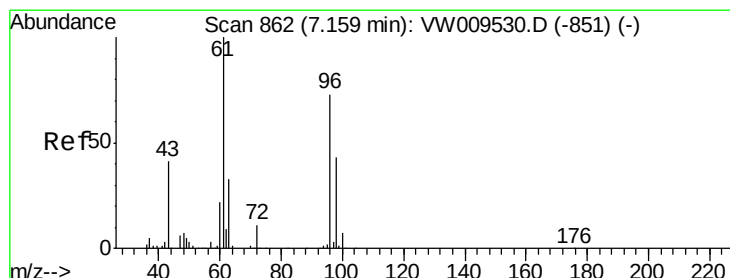
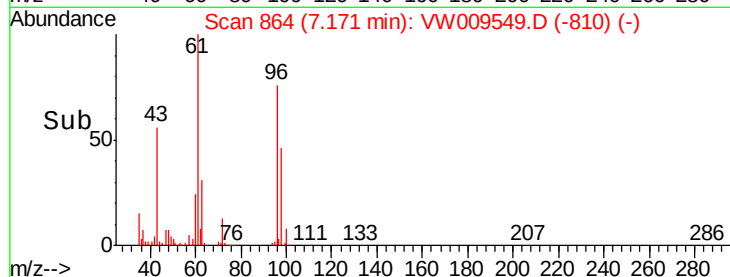
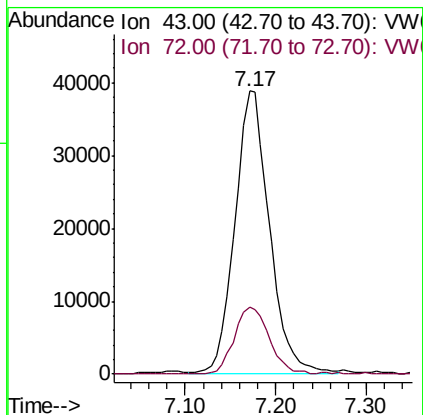
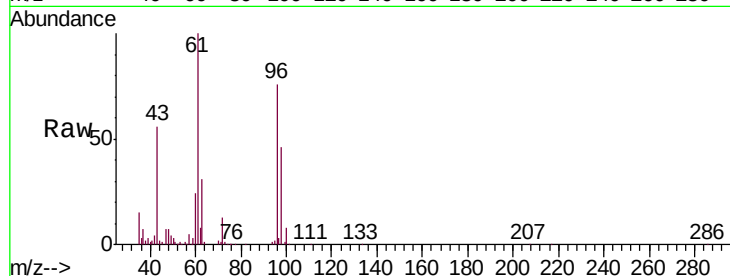
VSTD02502

Tgt Ion: 43 Resp: 103224

Ion Ratio Lower Upper

43 100

72 23.7 13.1 39.1



#22

cis-1,2-Dichloroethene

Concen: 26.639 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

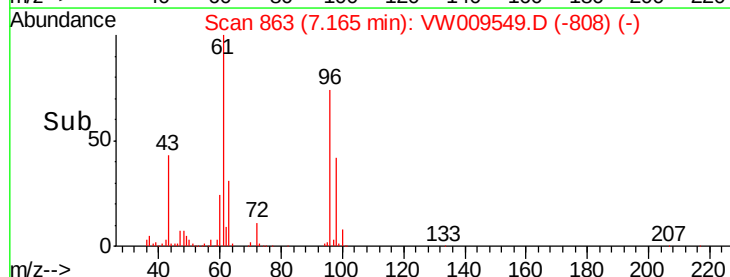
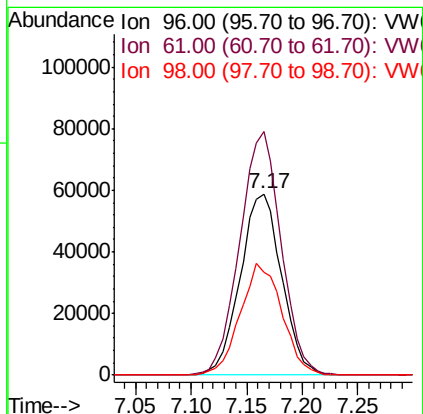
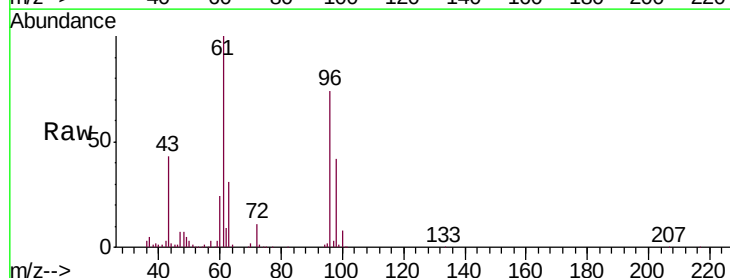
Tgt Ion: 96 Resp: 152236

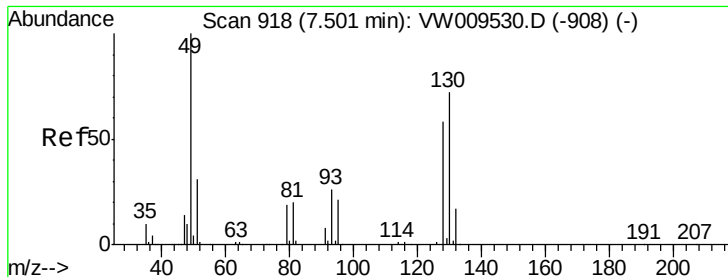
Ion Ratio Lower Upper

96 100

61 134.3 90.6 168.3

98 56.8 44.0 81.8





#23

Bromochloromethane

Concen: 25.251 ug/L

RT: 7.51 min Scan# 919

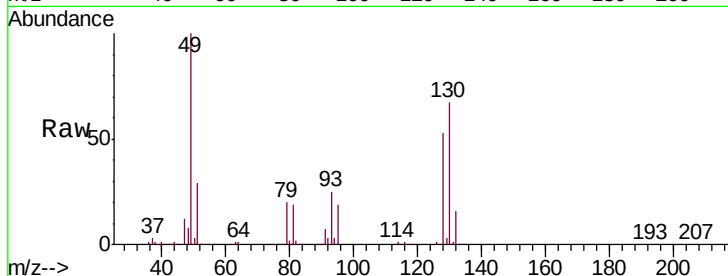
Delta R.T. 0.01 min

Lab File: VW009549.D

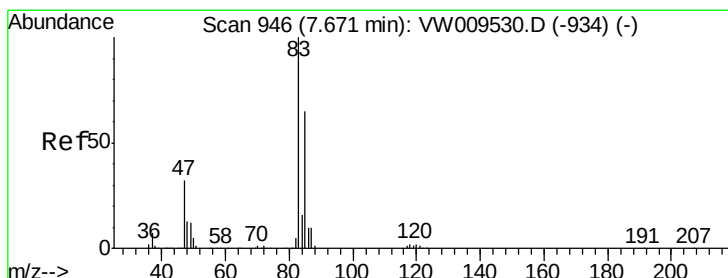
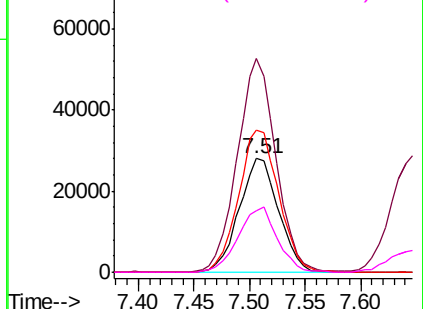
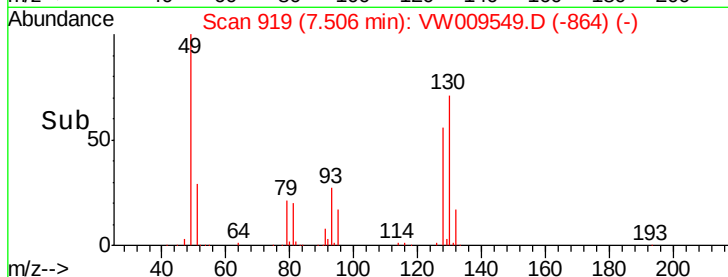
Acq: 28 Mar 2019 20:45

Instrument :
MSVOA_W
ClientSampleId :
VSTD02502

Tgt Ion:	128	Resp:	69213
Ion	Ratio	Lower	Upper
128	100		
49	188.4	118.4	219.8
130	125.7	87.8	163.2
51	54.5	44.6	67.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 28.167 ug/L

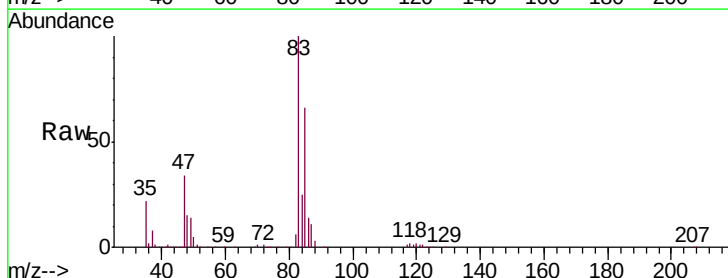
RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

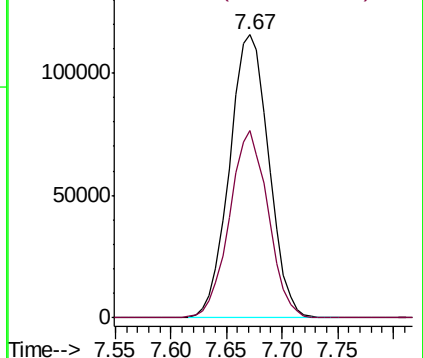
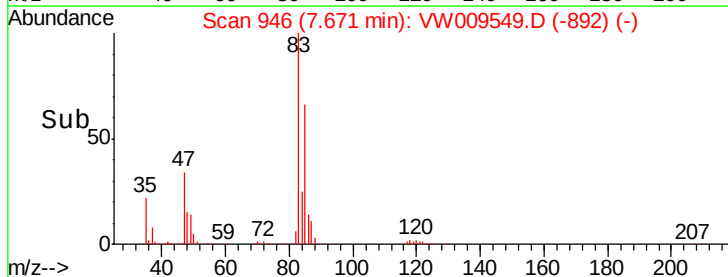
Lab File: VW009549.D

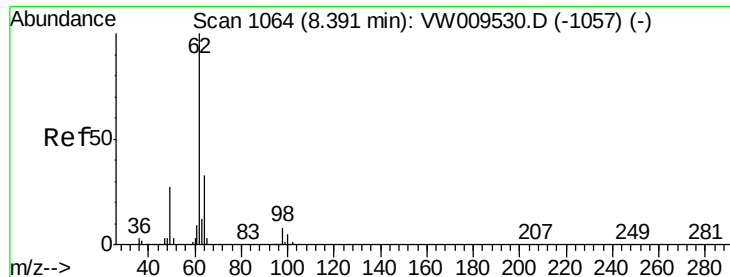
Acq: 28 Mar 2019 20:45

Tgt Ion:	83	Resp:	283737
Ion	Ratio	Lower	Upper
83	100		
85	65.0	46.0	85.4



Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 85.00 (84.70 to 85.70): VW

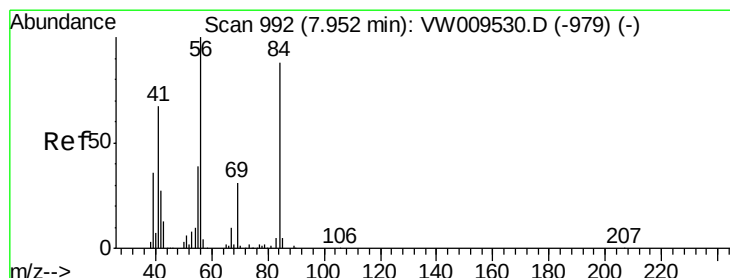
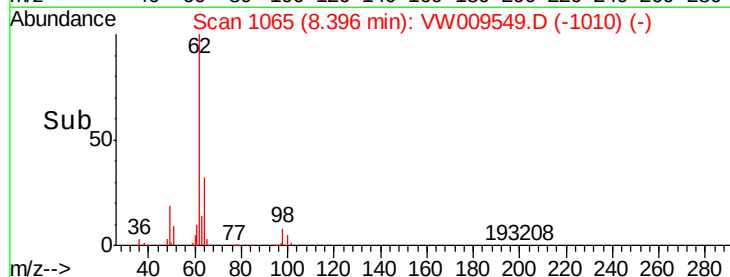
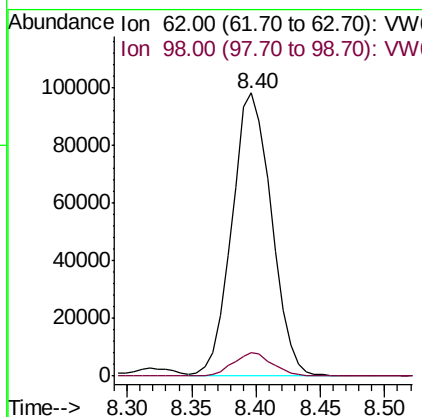
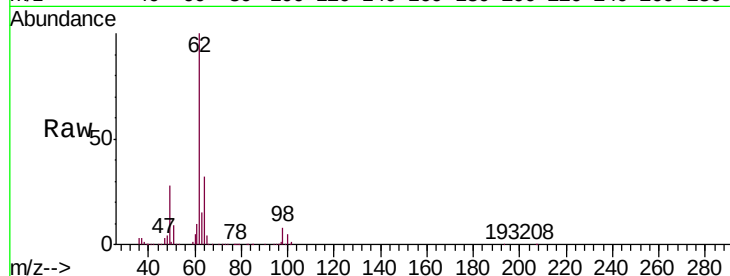




#27
1,2-Dichloroethane
Concen: 27.947 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.01 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

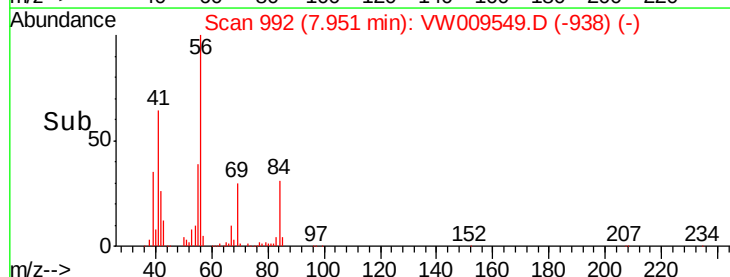
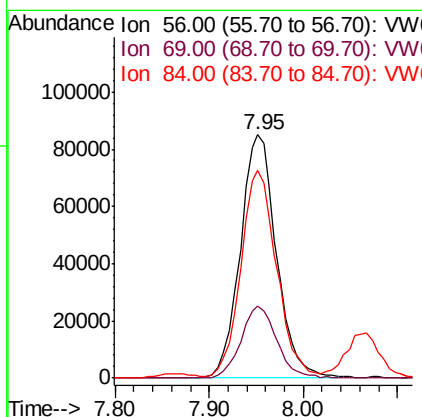
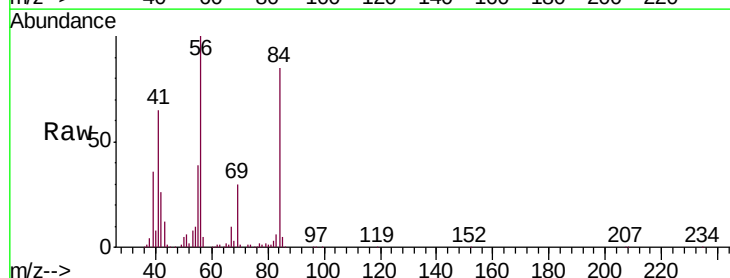
Instrument :
MSVOA_W
ClientSampled :
VSTD02502

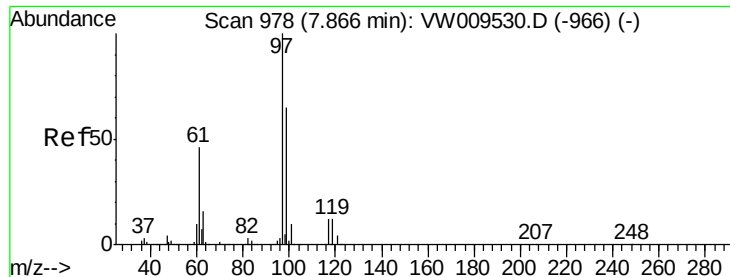
Tgt Ion: 62 Resp: 209897
Ion Ratio Lower Upper
62 100
98 8.2 7.3 10.9



#30
Cyclohexane
Concen: 25.424 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

Tgt Ion: 56 Resp: 228130
Ion Ratio Lower Upper
56 100
69 29.2 24.0 36.0
84 85.0 69.2 103.8





#31

1,1,1-Trichloroethane

Concen: 28.310 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

VSTD02502

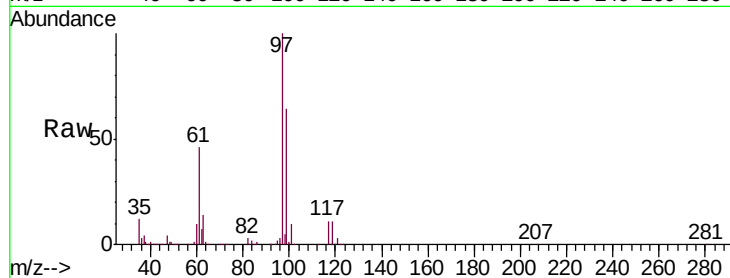
Tgt Ion: 97 Resp: 223391

Ion Ratio Lower Upper

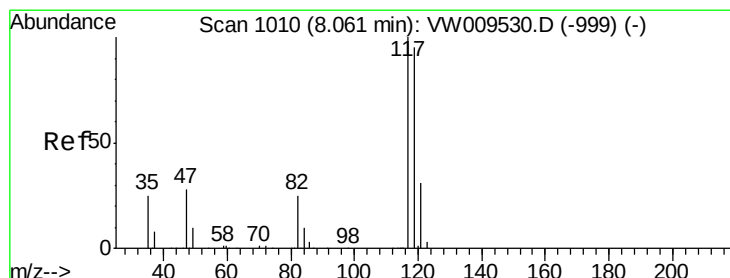
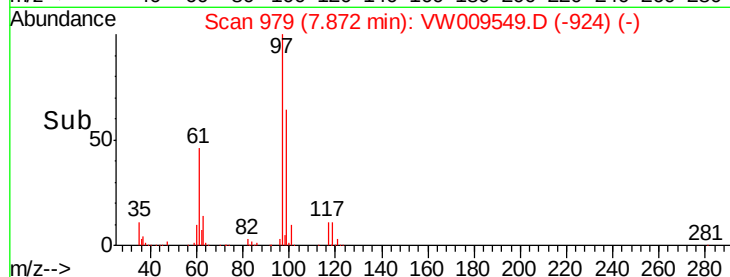
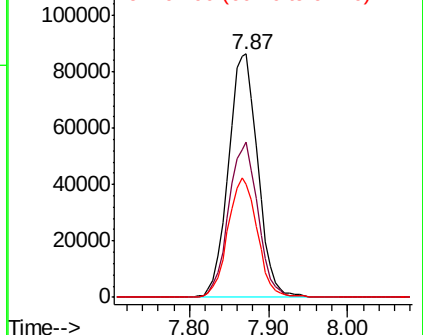
97 100

99 63.8 51.2 76.8

61 49.3 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 28.016 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VW009549.D

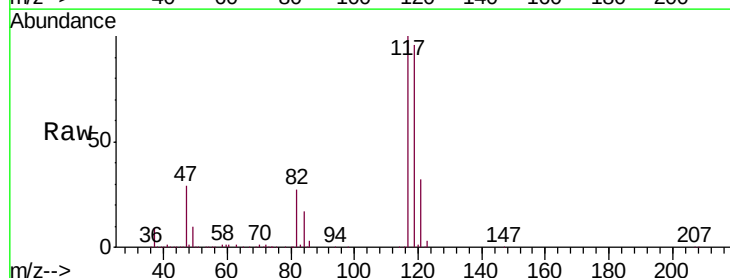
Acq: 28 Mar 2019 20:45

Tgt Ion: 117 Resp: 223053

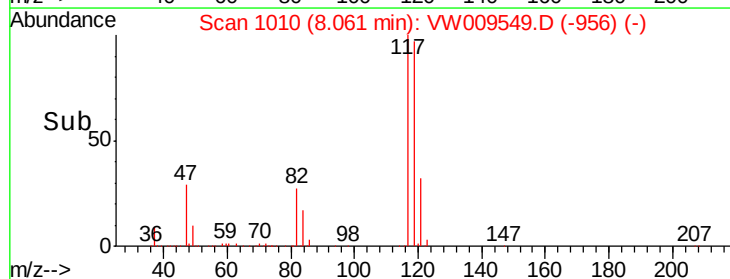
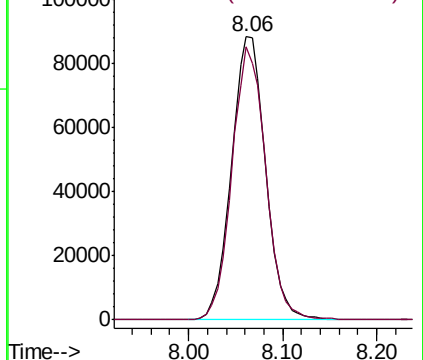
Ion Ratio Lower Upper

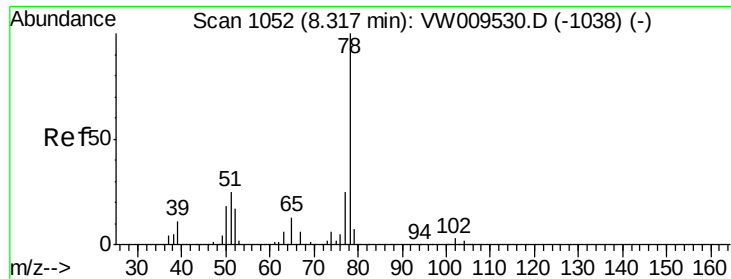
117 100

119 95.2 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 27.112 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

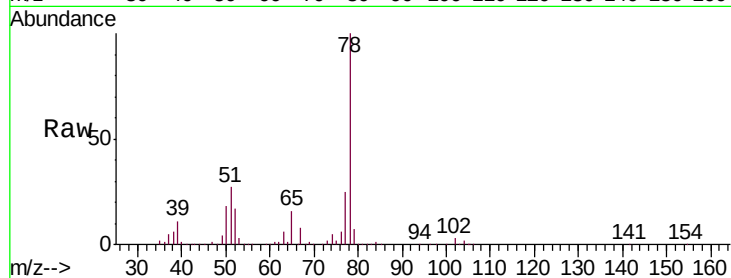
Instrument :

MSVOA_W

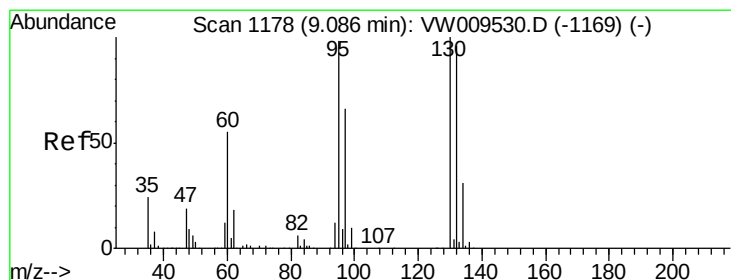
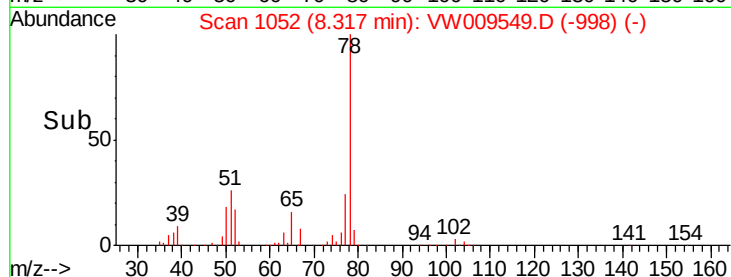
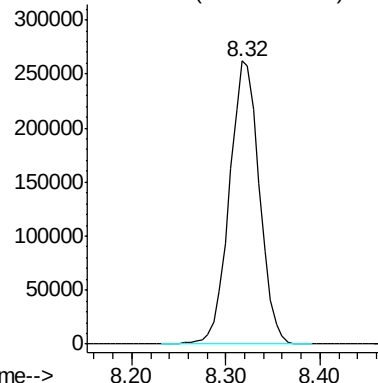
ClientSampleId :

VSTD02502

Tgt Ion: 78 Resp: 586305



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 26.019 ug/L

RT: 9.09 min Scan# 1178

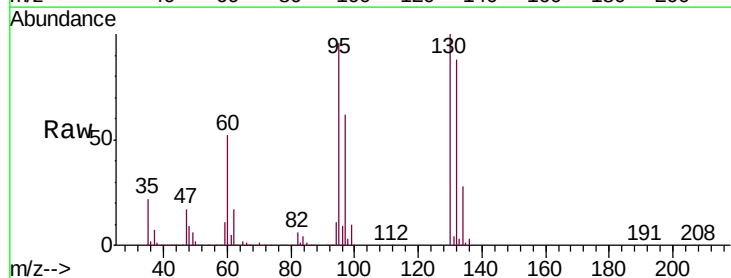
Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Tgt Ion: 95 Resp: 149928

Ion	Ratio	Lower	Upper
95	100		
97	63.5	44.7	82.9
132	96.6	69.0	128.2
130	102.5	72.7	134.9

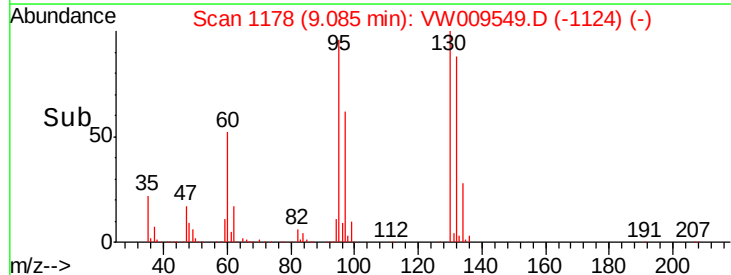
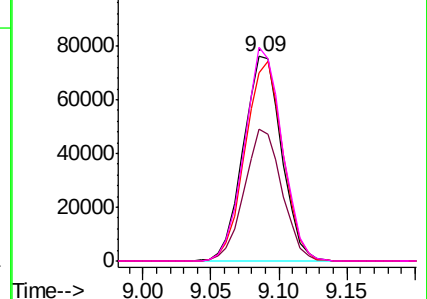


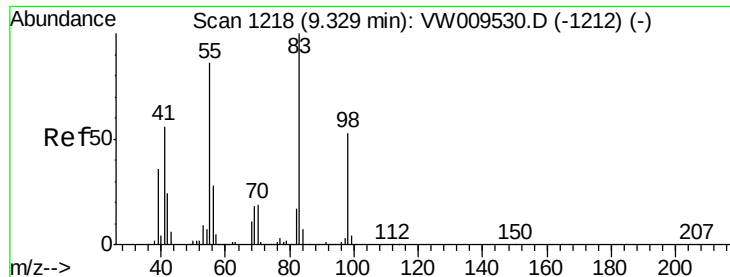
Abundance Ion 95.00 (94.70 to 95.70): VW

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

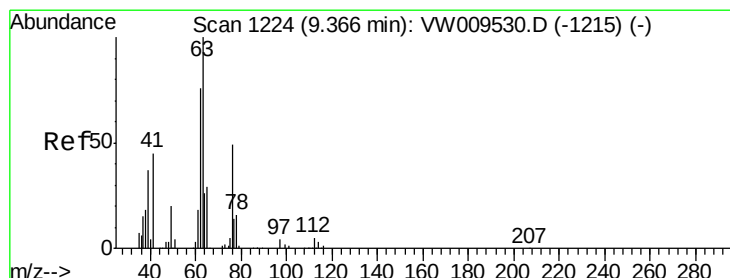
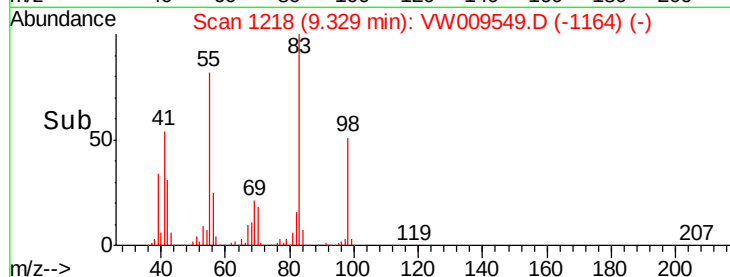
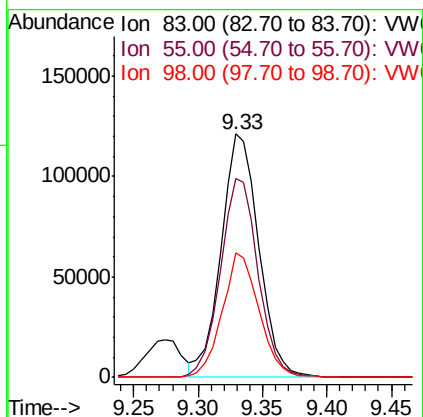
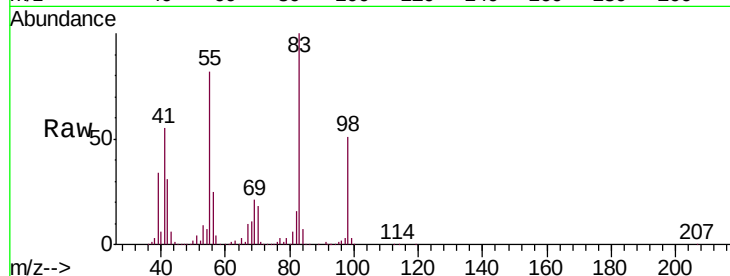




#36
Methylcyclohexane
Concen: 24.915 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.00 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

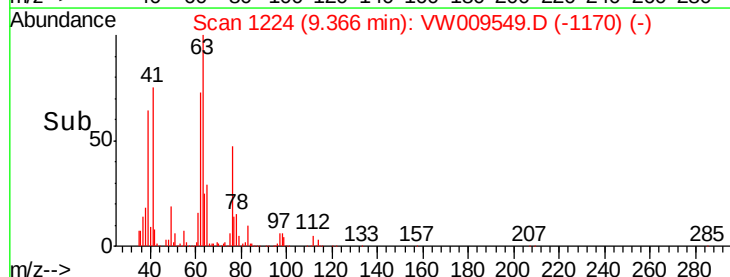
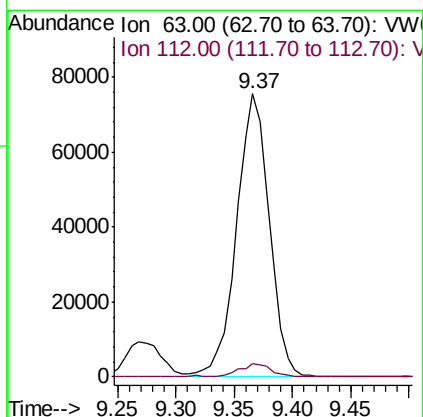
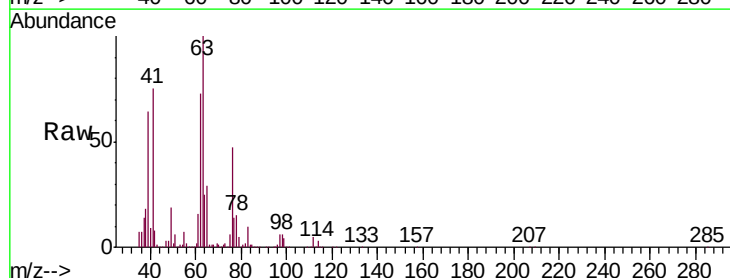
Instrument :
MSVOA_W
ClientSampleId :
VSTD02502

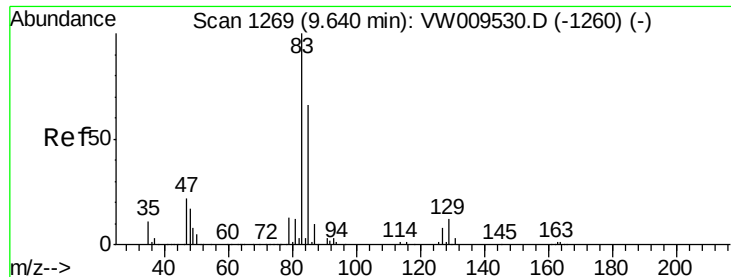
Tgt Ion: 83 Resp: 248388
Ion Ratio Lower Upper
83 100
55 81.9 63.5 95.3
98 49.7 39.8 59.8



#40
1,2-Dichloropropane
Concen: 26.664 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

Tgt Ion: 63 Resp: 147967
Ion Ratio Lower Upper
63 100
112 4.6 4.0 6.0





#41

Bromodichloromethane

Concen: 26.821 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

VSTD02502

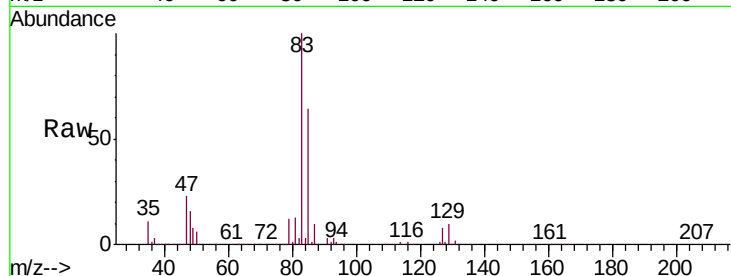
Tgt Ion: 83 Resp: 206222

Ion Ratio Lower Upper

83 100

85 64.0 43.5 80.7

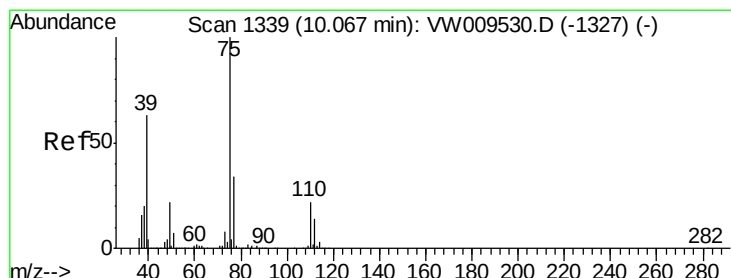
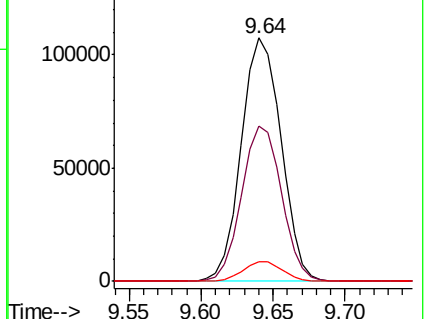
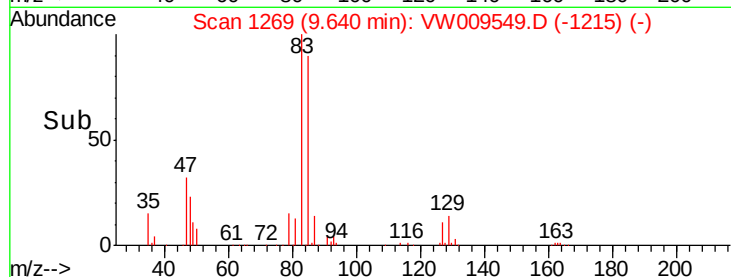
127 8.1 6.2 9.4



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): VW



#42

cis-1,3-Dichloropropene

Concen: 25.667 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW009549.D

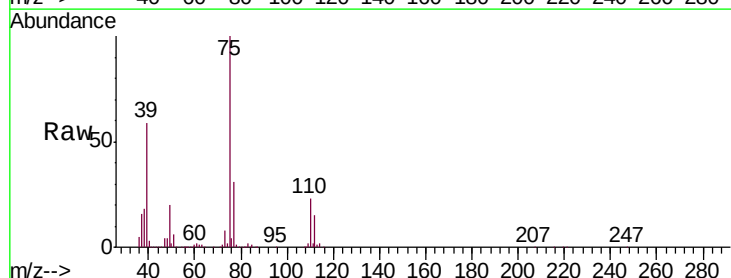
Acq: 28 Mar 2019 20:45

Tgt Ion: 75 Resp: 231981

Ion Ratio Lower Upper

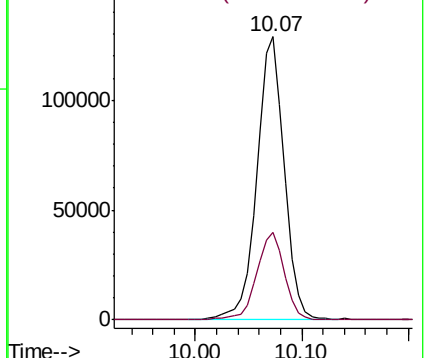
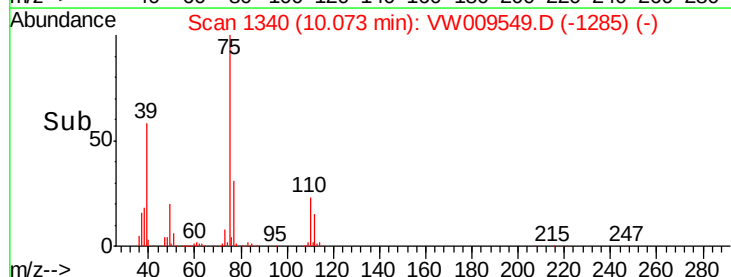
75 100

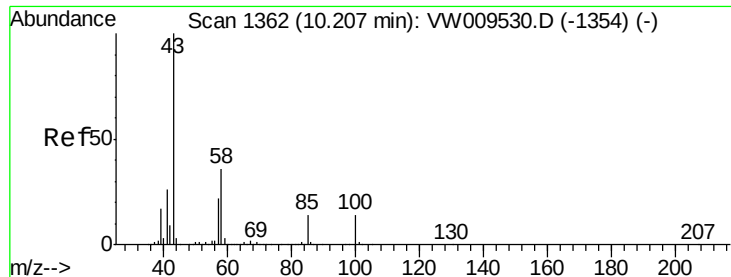
77 30.8 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

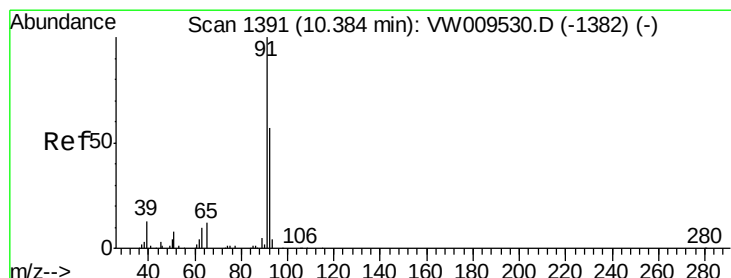
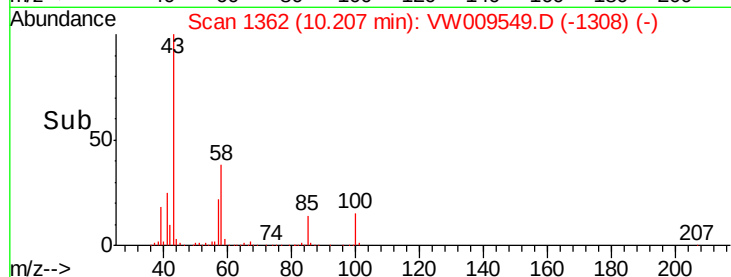
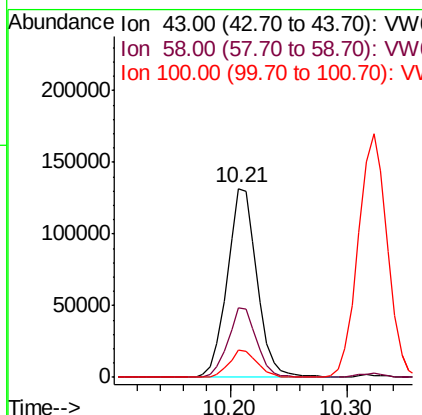
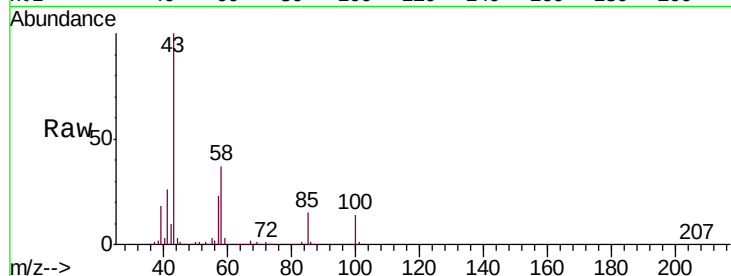




#43
 4-Methyl-2-pentanone
 Concen: 46.387 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

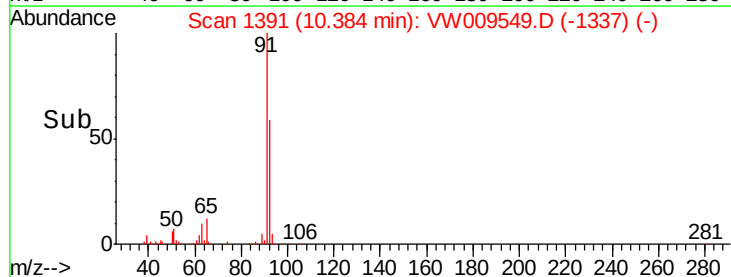
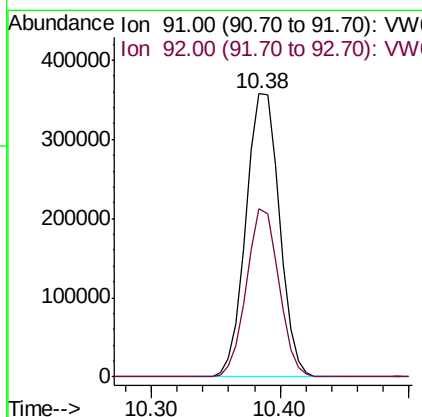
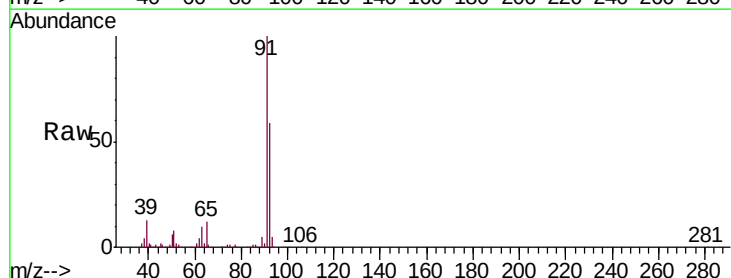
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02502

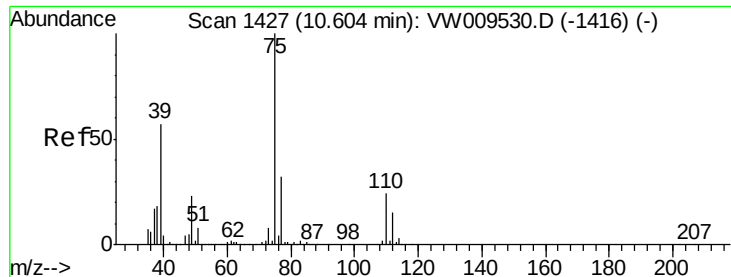
Tgt Ion: 43 Resp: 233254
 Ion Ratio Lower Upper
 43 100
 58 35.7 28.2 42.2
 100 13.7 11.4 17.2



#44
 Toluene
 Concen: 27.139 ug/L
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

Tgt Ion: 91 Resp: 641683
 Ion Ratio Lower Upper
 91 100
 92 59.2 39.8 73.8





#45

trans-1,3-Dichloropropene

Concen: 25.332 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

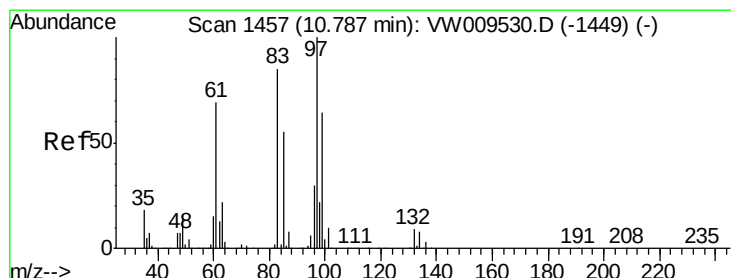
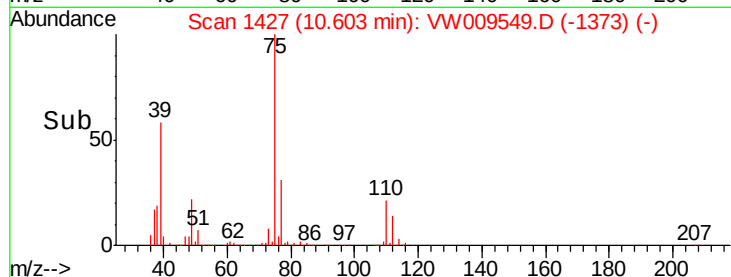
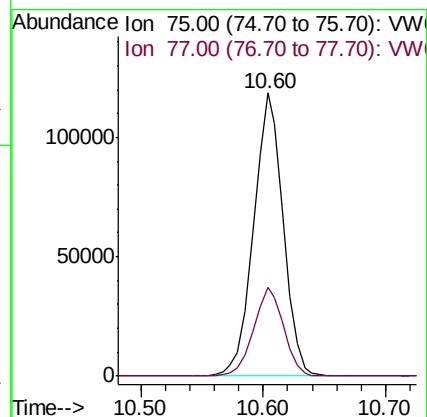
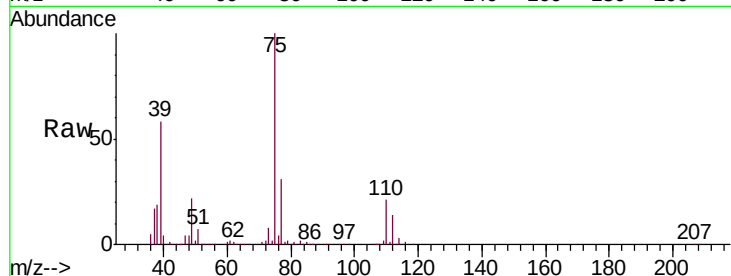
VSTD02502

Tgt Ion: 75 Resp: 199169

Ion Ratio Lower Upper

75 100

77 31.3 22.5 41.7



#46

1,1,2-Trichloroethane

Concen: 25.632 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Tgt Ion: 97 Resp: 113476

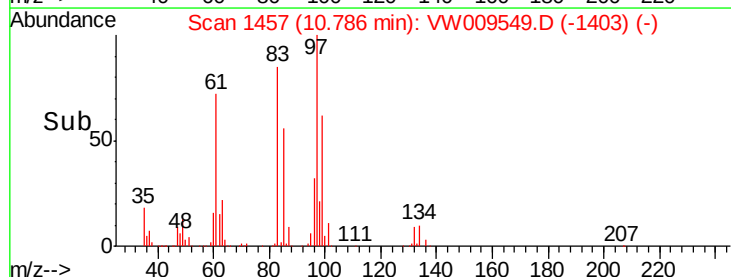
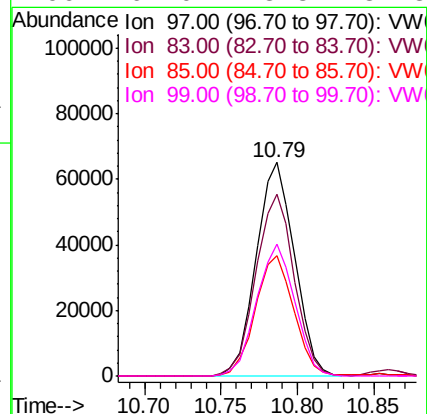
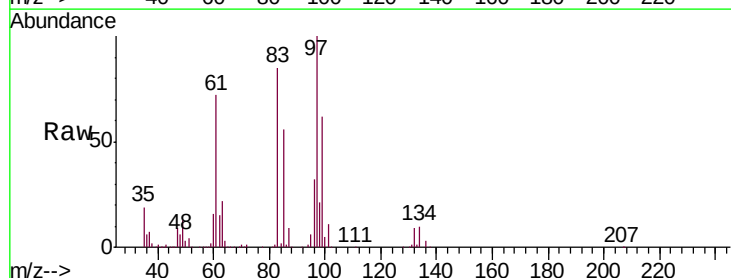
Ion Ratio Lower Upper

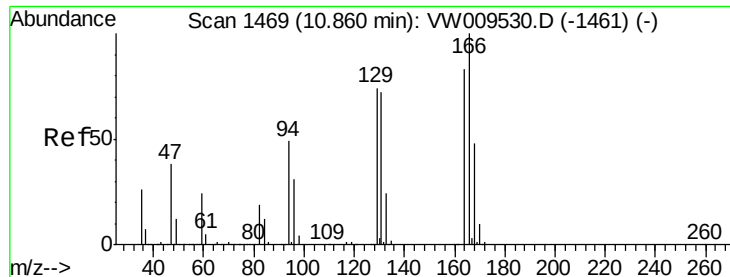
97 100

83 85.2 60.7 112.7

85 56.3 40.1 74.5

99 62.0 43.8 81.3





#47

Tetrachloroethene

Concen: 24.937 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampled :

VSTD02502

Tgt Ion:164 Resp: 121416

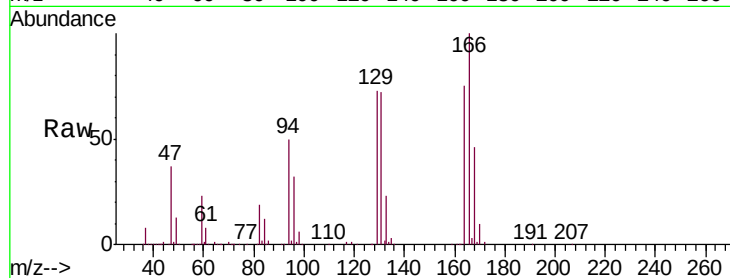
Ion Ratio Lower Upper

164 100

129 97.8 66.5 123.5

131 96.0 62.6 116.3

166 133.6 91.6 170.0

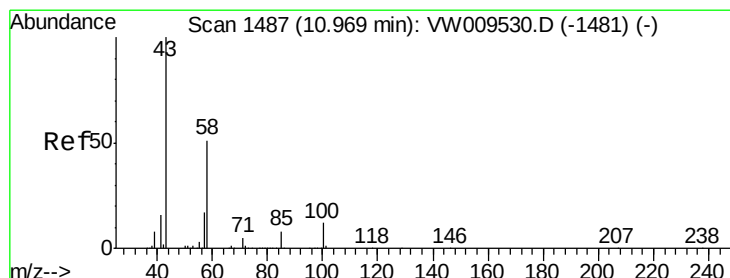
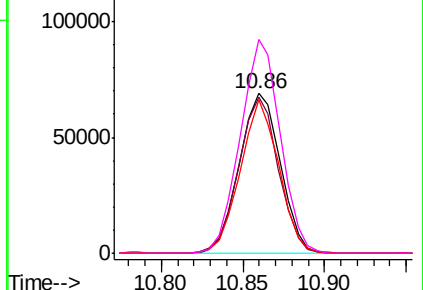
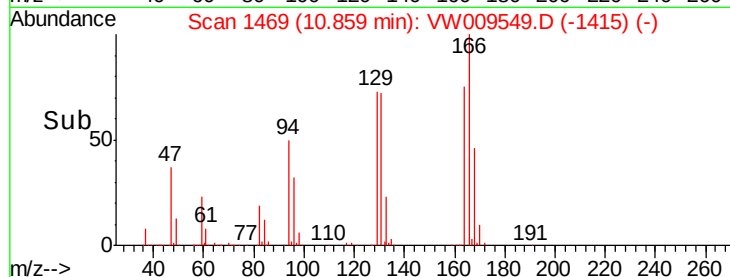


Abundance Ion 164.00 (163.70 to 164.70): V

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



#49

2-Hexanone

Concen: 47.385 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Tgt Ion: 43 Resp: 167818

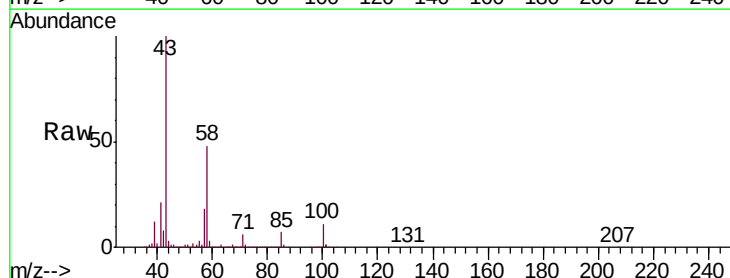
Ion Ratio Lower Upper

43 100

58 49.7 39.2 58.8

57 17.5 14.2 21.2

100 10.7 8.9 13.3

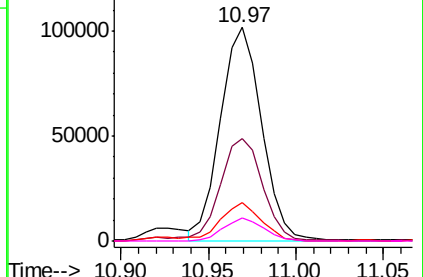
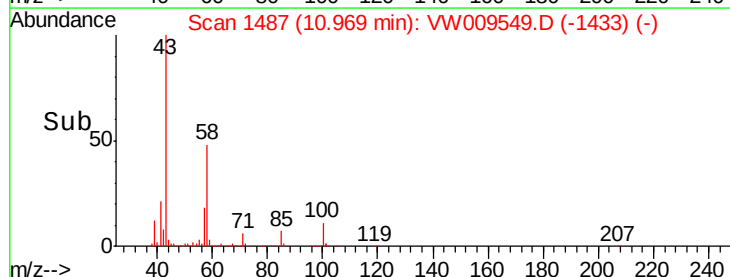


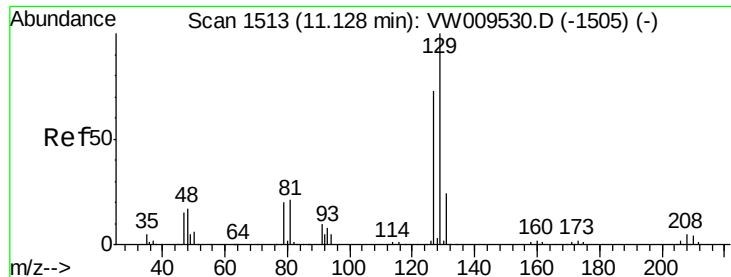
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#50

Dibromochloromethane

Concen: 25.936 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

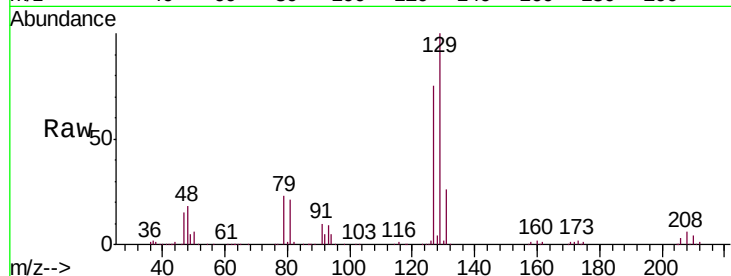
VSTD02502

Tgt Ion:129 Resp: 141745

Ion Ratio Lower Upper

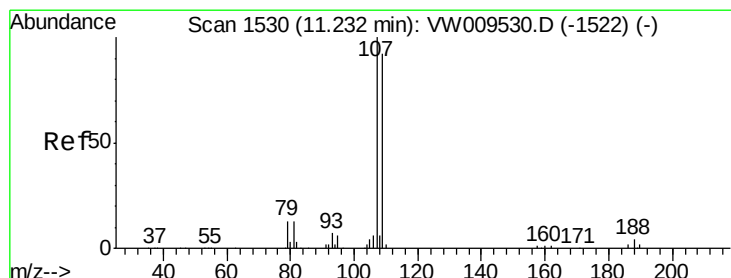
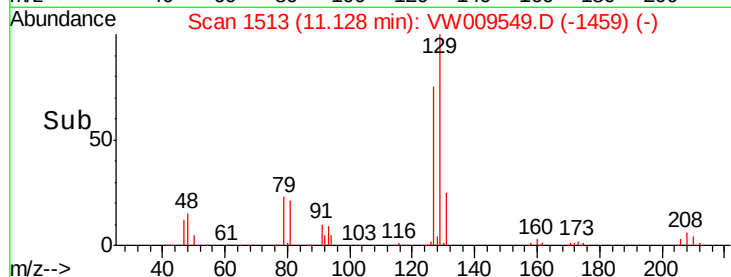
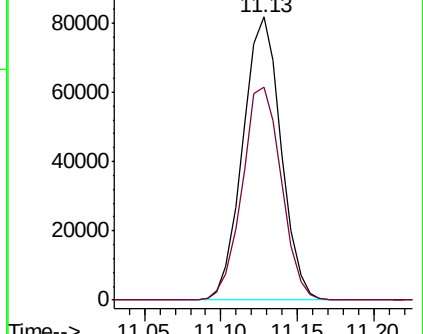
129 100

127 75.0 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 24.424 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

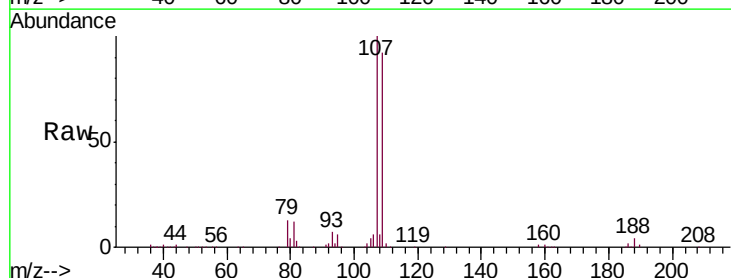
Tgt Ion:107 Resp: 109618

Ion Ratio Lower Upper

107 100

109 92.0 68.0 126.4

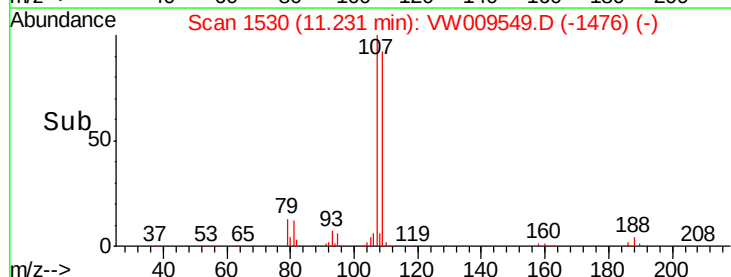
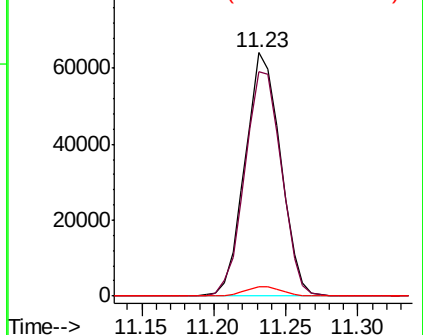
188 3.7 3.5 5.3

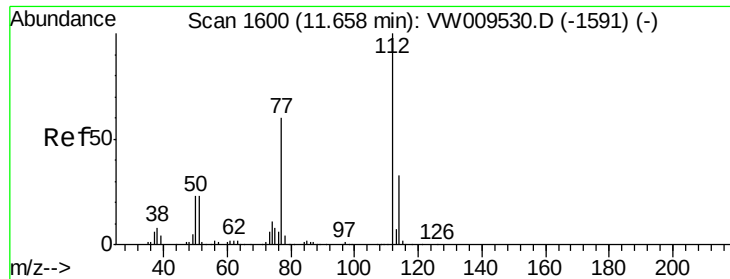


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 26.442 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

VSTD02502

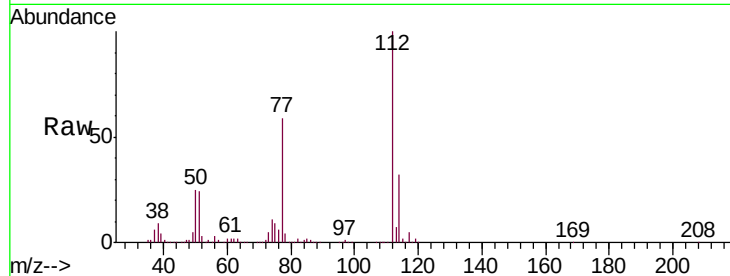
Tgt Ion: 112 Resp: 400998

Ion Ratio Lower Upper

112 100

77 59.5 45.7 68.5

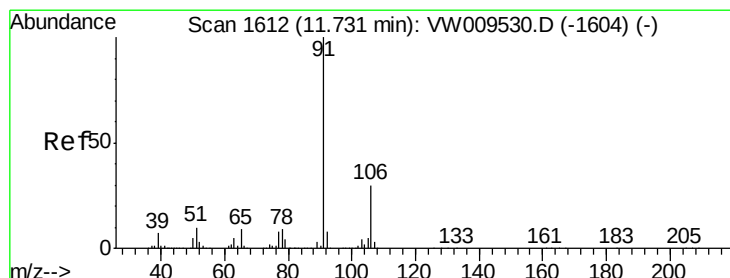
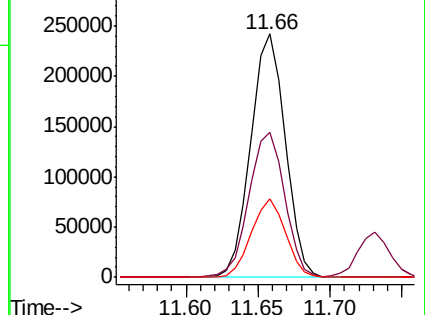
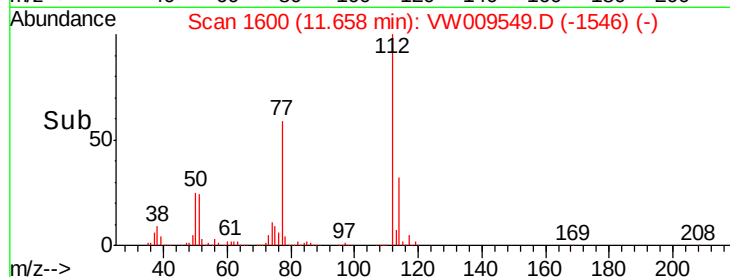
114 32.4 22.8 42.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 27.477 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009549.D

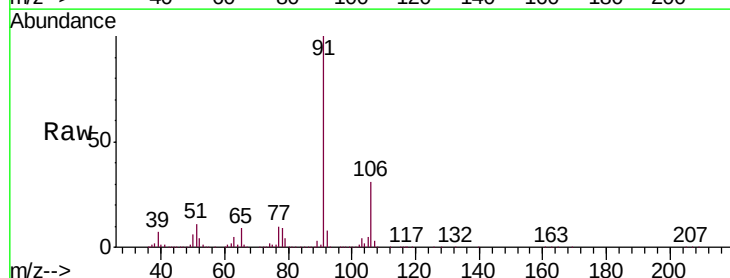
Acq: 28 Mar 2019 20:45

Tgt Ion: 91 Resp: 730398

Ion Ratio Lower Upper

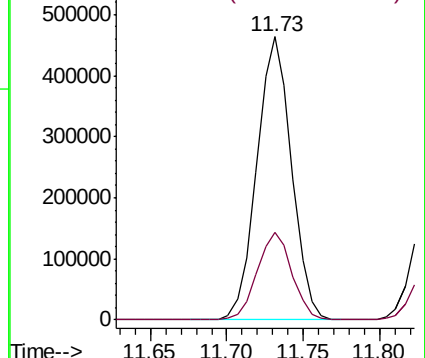
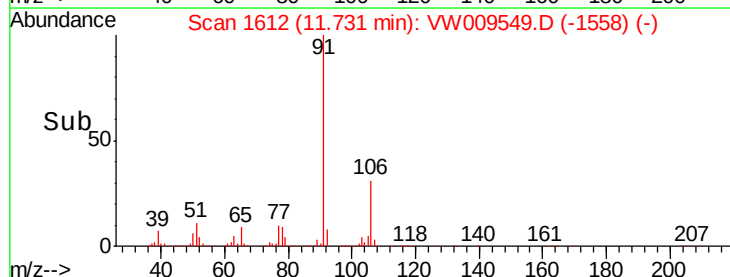
91 100

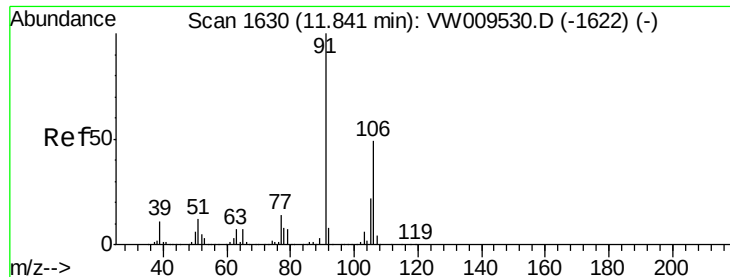
106 30.8 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 27.050 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

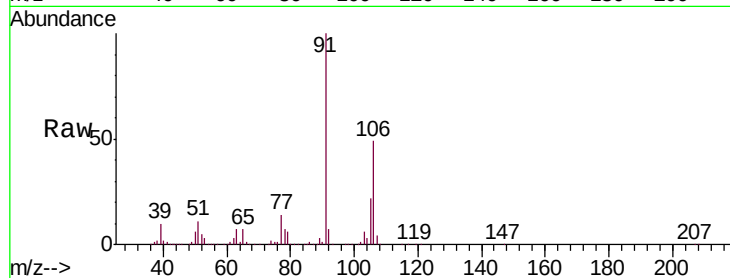
VSTD02502

Tgt Ion:106 Resp: 273188

Ion Ratio Lower Upper

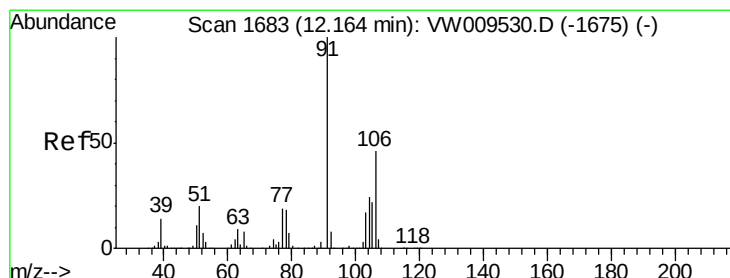
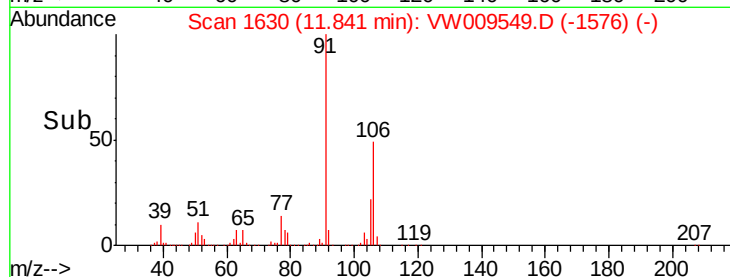
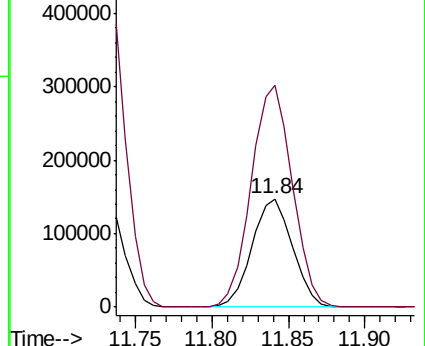
106 100

91 204.9 138.4 257.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 26.851 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW009549.D

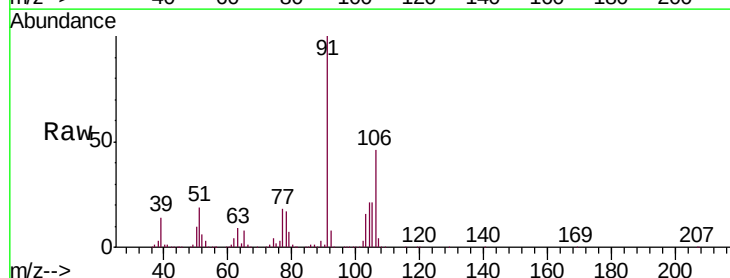
Acq: 28 Mar 2019 20:45

Tgt Ion:106 Resp: 264548

Ion Ratio Lower Upper

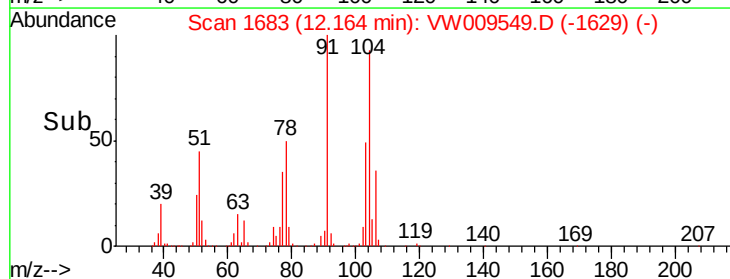
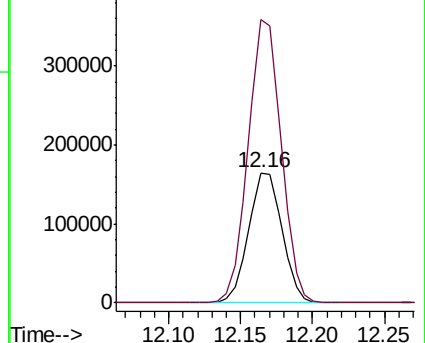
106 100

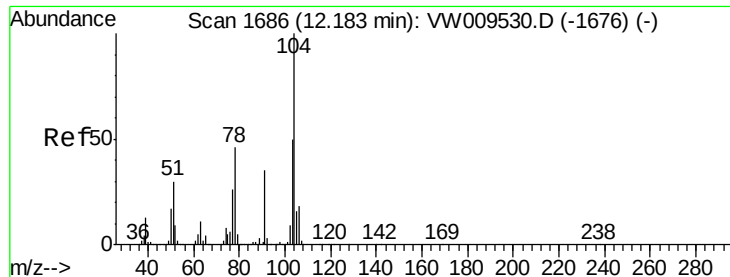
91 218.1 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 27.649 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

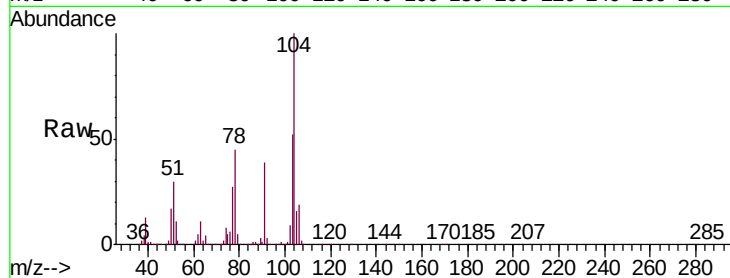
VSTD02502

Tgt Ion:104 Resp: 464784

Ion Ratio Lower Upper

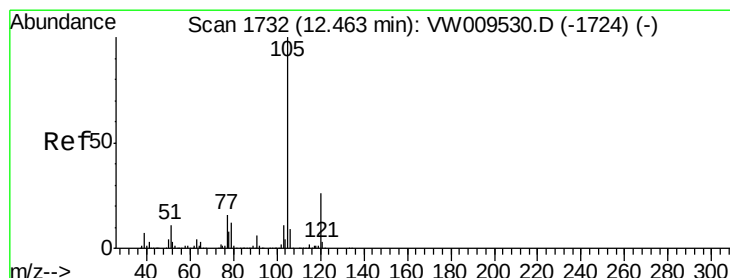
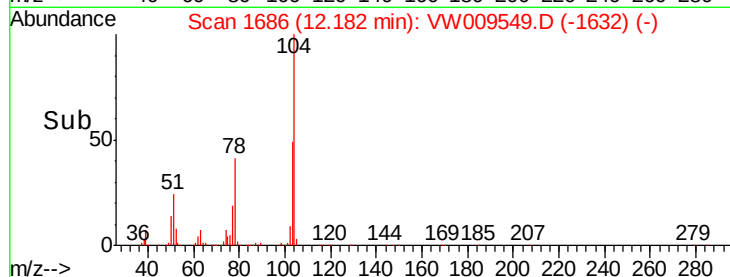
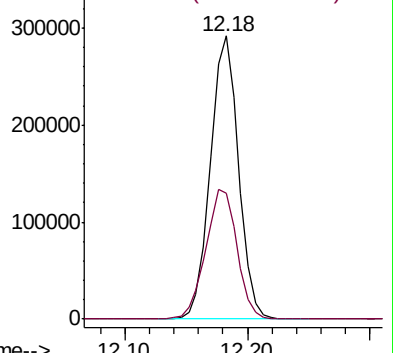
104 100

78 44.7 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 27.581 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

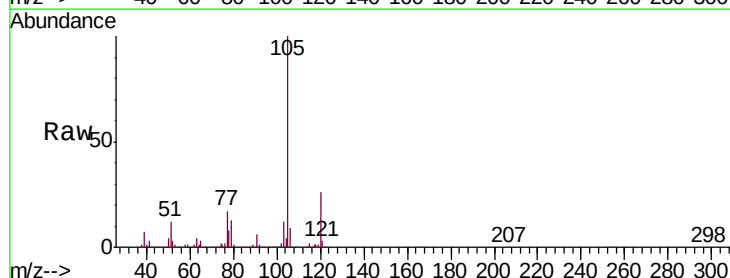
Tgt Ion:105 Resp: 727927

Ion Ratio Lower Upper

105 100

120 25.9 21.3 31.9

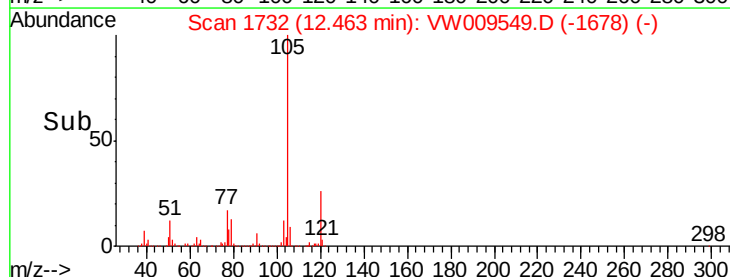
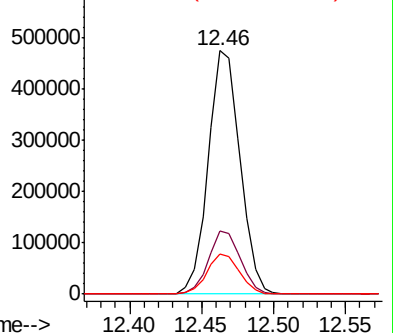
77 16.6 13.1 19.7

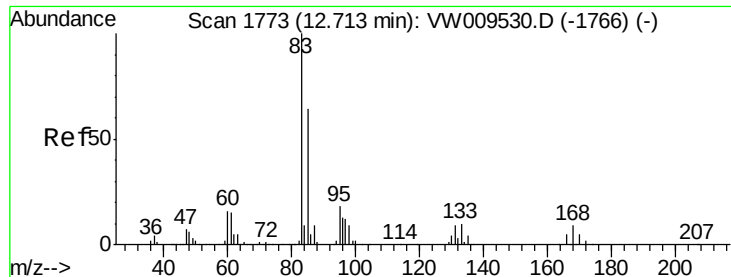


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 26.065 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

VSTD02502

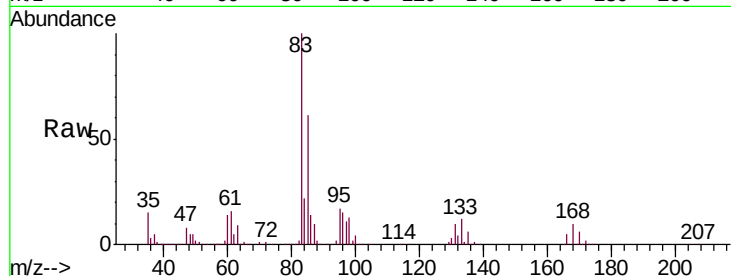
Tgt Ion: 83 Resp: 155670

Ion Ratio Lower Upper

83 100

85 61.1 45.6 84.8

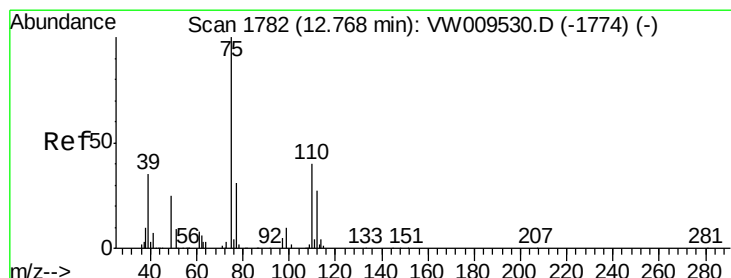
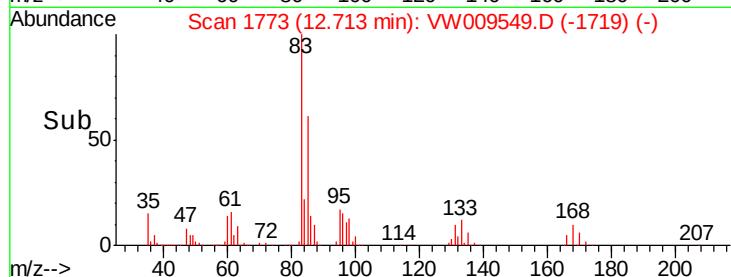
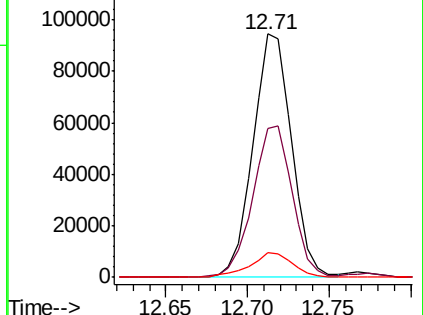
131 9.9 9.2 13.8



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): VW



#59

1,2,3-Trichloropropane

Concen: 25.094 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW009549.D

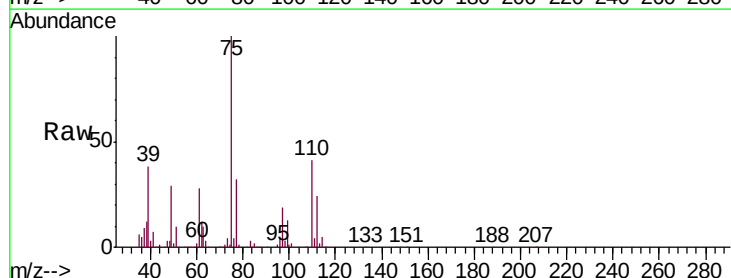
Acq: 28 Mar 2019 20:45

Tgt Ion: 75 Resp: 111224

Ion Ratio Lower Upper

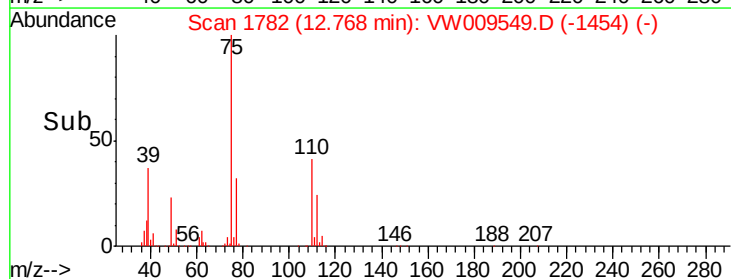
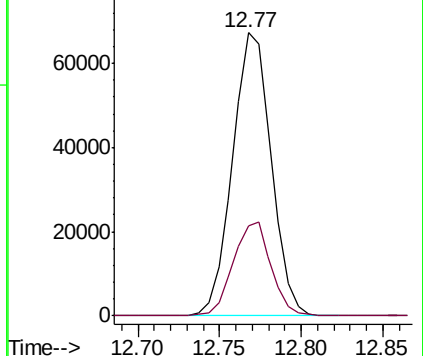
75 100

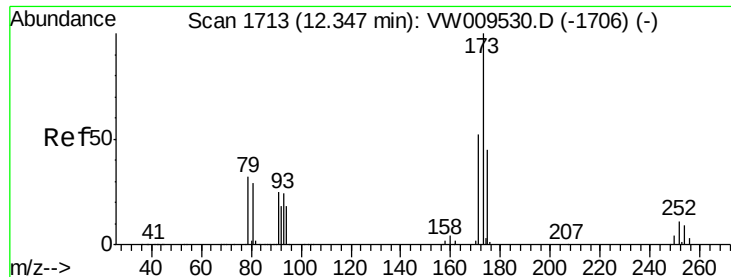
77 32.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

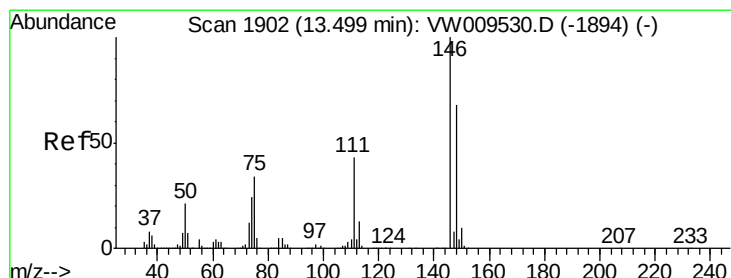
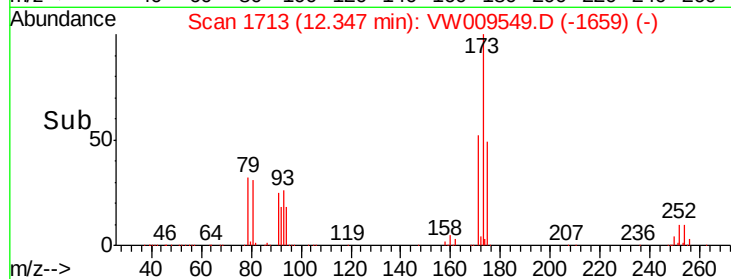
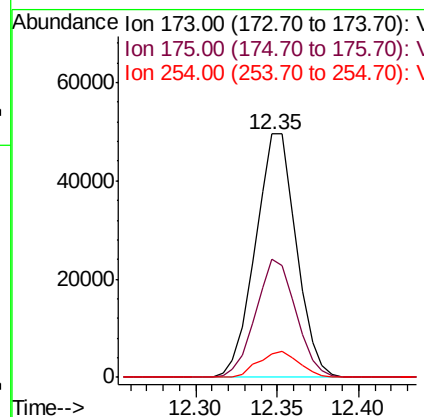
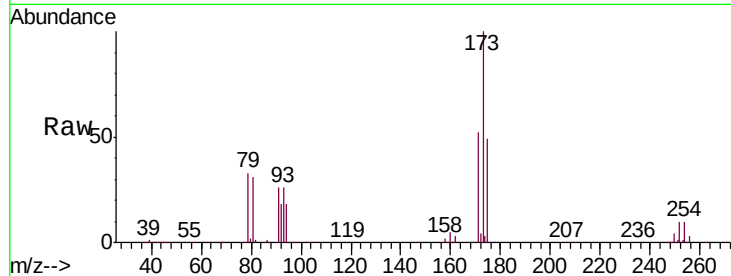




#62
Bromoform
Concen: 24.654 ug/L
RT: 12.35 min Scan# 1713
Delta R.T. -0.00 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

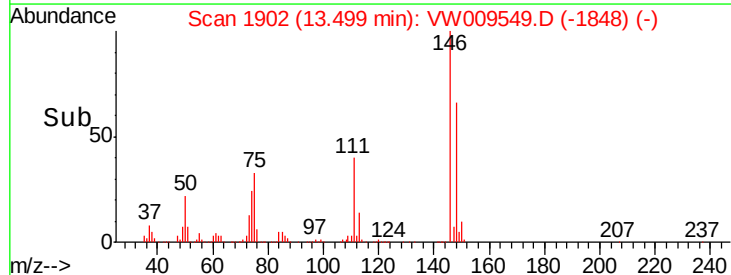
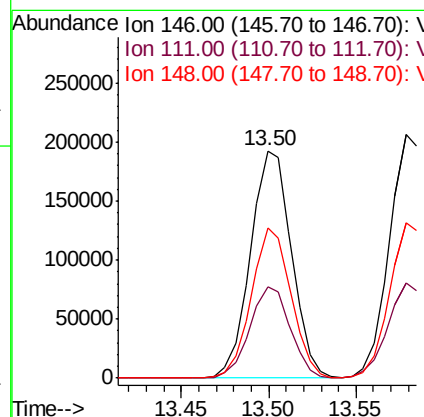
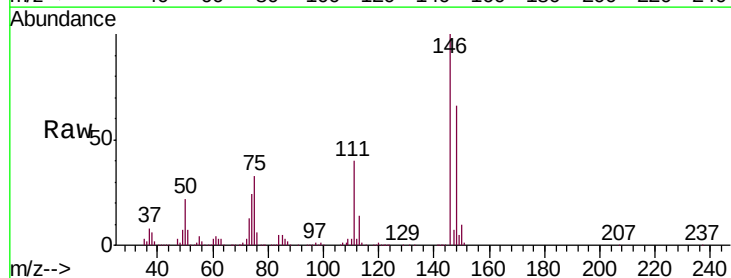
Instrument :
MSVOA_W
ClientSampleId :
VSTD02502

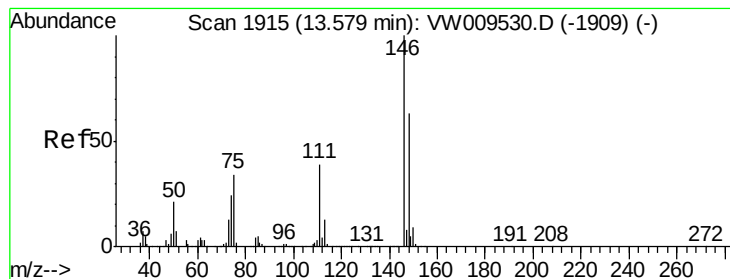
Tgt Ion:173 Resp: 86299
Ion Ratio Lower Upper
173 100
175 47.8 39.7 59.5
254 10.5 8.5 12.7



#63
1,3-Dichlorobenzene
Concen: 25.415 ug/L
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

Tgt Ion:146 Resp: 313795
Ion Ratio Lower Upper
146 100
111 40.4 26.9 49.9
148 65.8 45.1 83.7





#64

1,4-Dichlorobenzene

Concen: 26.076 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

Instrument :

MSVOA_W

ClientSampleId :

VSTD02502

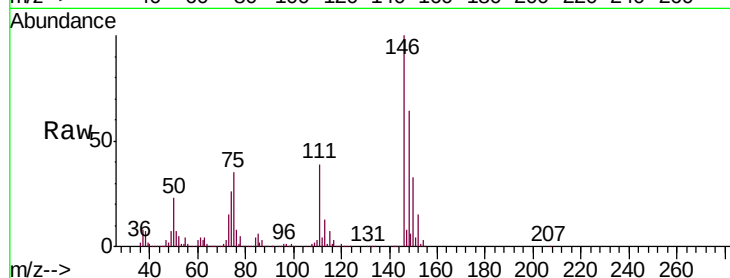
Tgt Ion:146 Resp: 332866

Ion Ratio Lower Upper

146 100

111 39.0 27.8 51.6

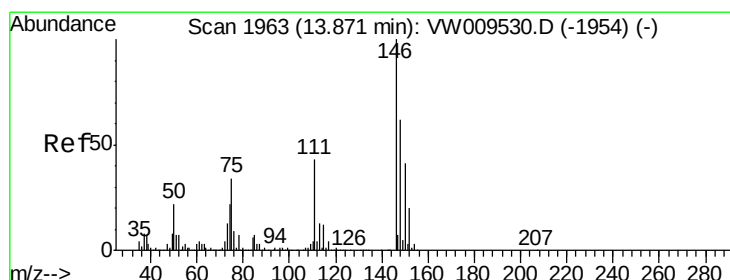
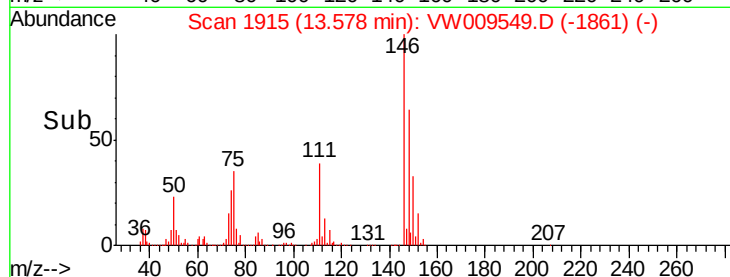
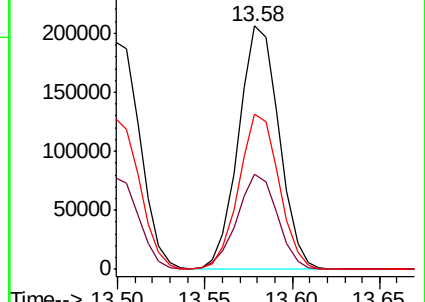
148 64.0 46.3 86.1



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



#65

1,2-Dichlorobenzene

Concen: 26.029 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW009549.D

Acq: 28 Mar 2019 20:45

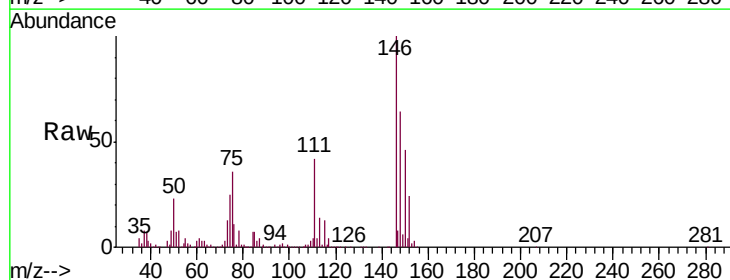
Tgt Ion:146 Resp: 306495

Ion Ratio Lower Upper

146 100

111 42.1 33.5 50.3

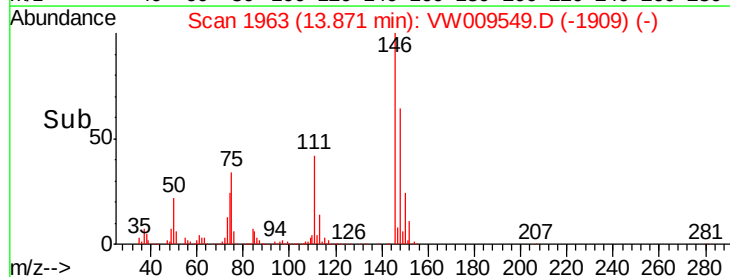
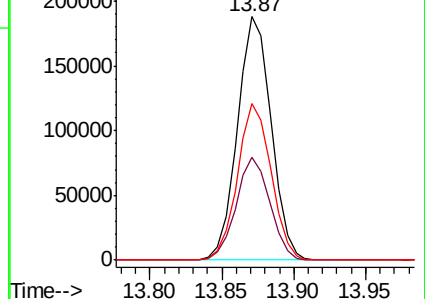
148 64.3 50.2 75.2

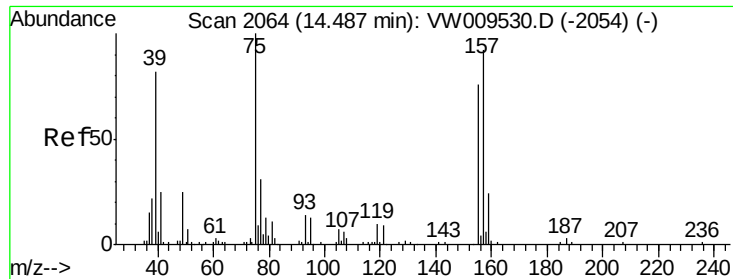


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

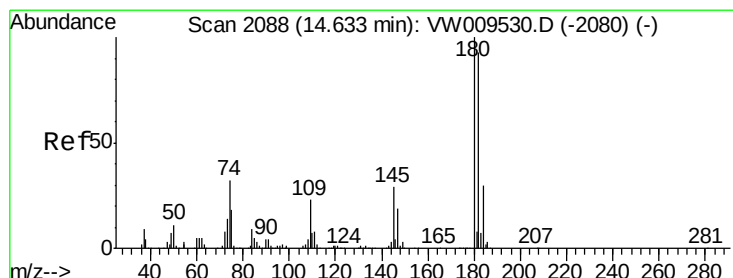
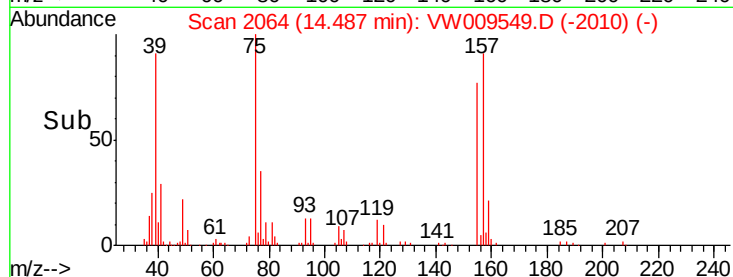
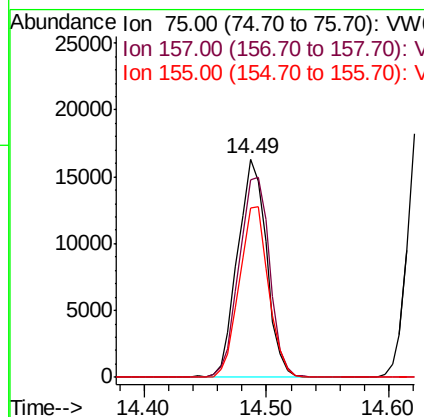
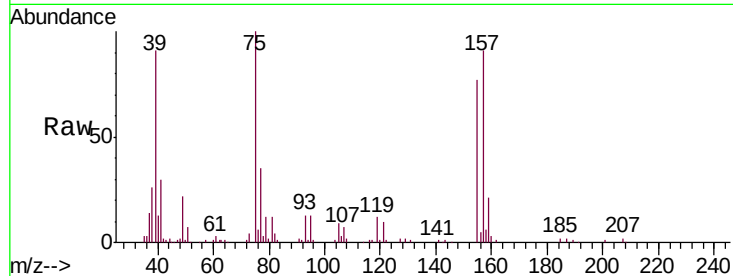




#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.125 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

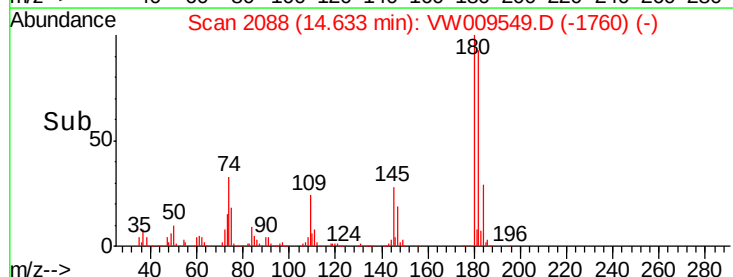
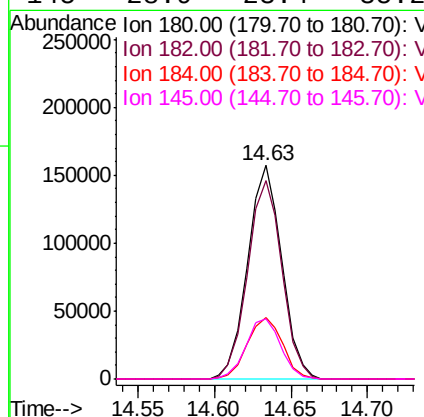
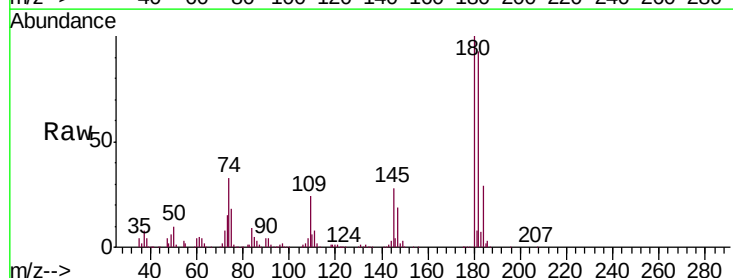
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02502

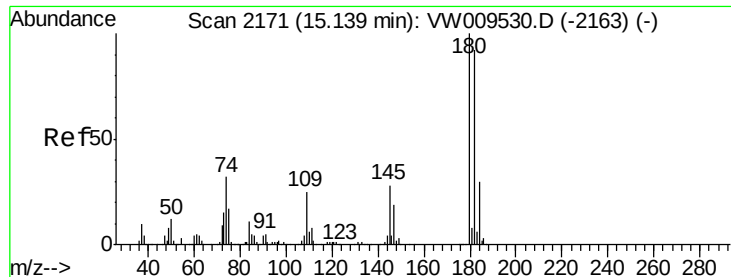
Tgt Ion: 75 Resp: 26686
 Ion Ratio Lower Upper
 75 100
 157 90.6 89.0 133.4
 155 77.4 64.2 96.2



#67
 1,3,5-Trichlorobenzene
 Concen: 25.252 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

Tgt Ion: 180 Resp: 243194
 Ion Ratio Lower Upper
 180 100
 182 93.5 76.1 114.1
 184 29.8 23.8 35.6
 145 28.9 23.4 35.2

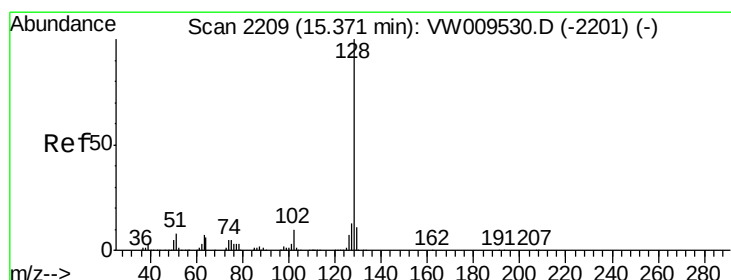
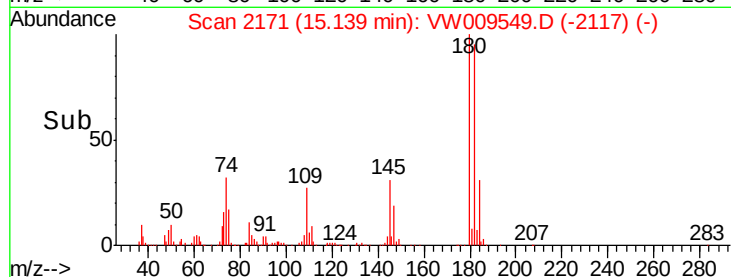
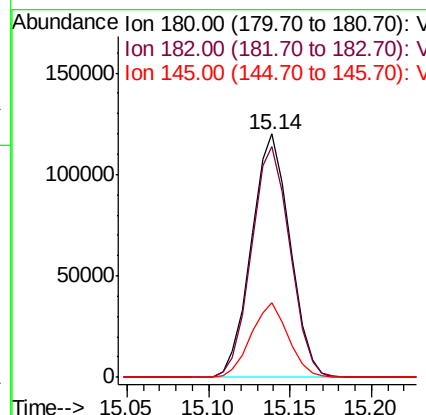
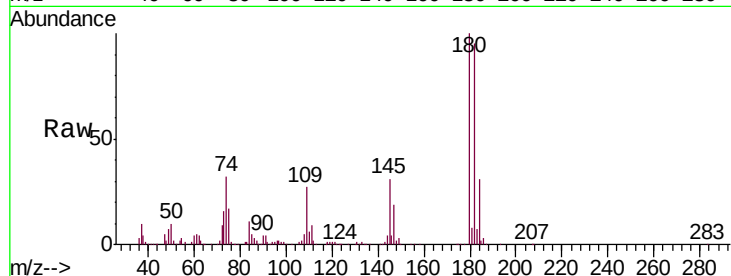




#68
1,2,4-trichlorobenzene
Concen: 24.425 ug/L
RT: 15.14 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

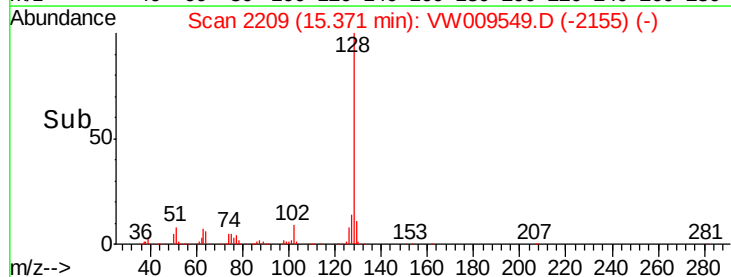
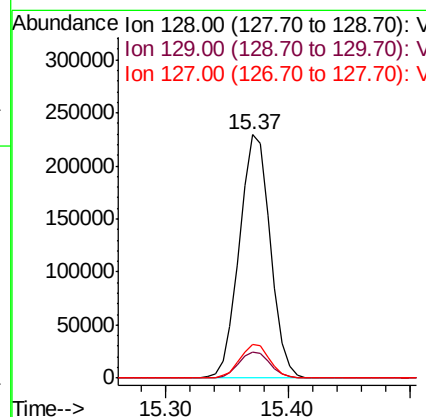
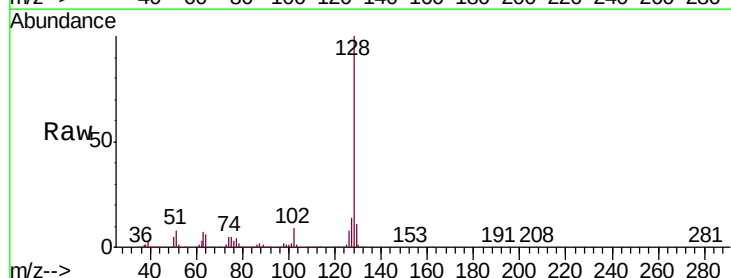
Instrument :
MSVOA_W
ClientSampleId :
VSTD02502

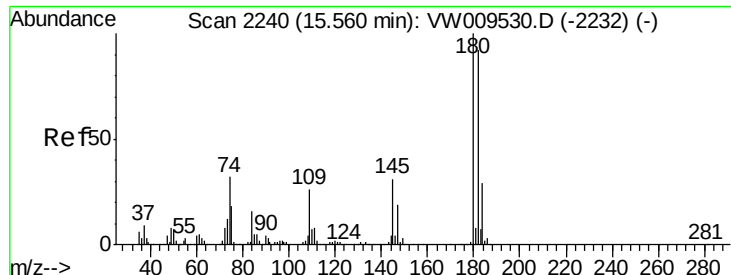
Tgt Ion:180 Resp: 197582
Ion Ratio Lower Upper
180 100
182 94.8 75.5 113.3
145 29.8 24.1 36.1



#69
Naphthalene
Concen: 23.974 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW009549.D
Acq: 28 Mar 2019 20:45

Tgt Ion:128 Resp: 402078
Ion Ratio Lower Upper
128 100
129 11.0 8.7 13.1
127 13.7 11.1 16.7

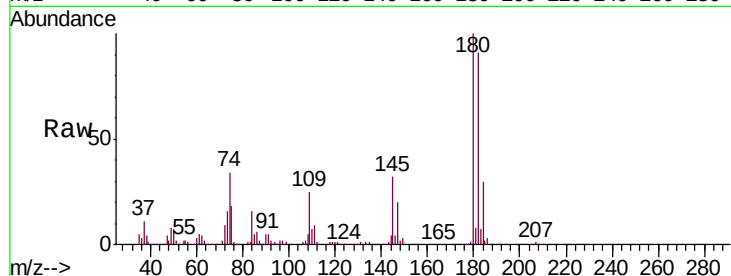




#70
 1,2,3-Trichlorobenzene
 Concen: 25.223 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. -0.00 min
 Lab File: VW009549.D
 Acq: 28 Mar 2019 20:45

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02502

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	77.2	115.8
145	32.0	25.8	38.6



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

