

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW103019\
 Data File : VW013826.D
 Acq On : 30 Oct 2019 09:35
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Quant Time: Oct 31 05:27:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 31 01:14:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	306436	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	293247	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	182477	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	91282	24.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.12%
7) Chloroethane-d5	2.89	69	82177	23.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.68%
10) 1,1-Dichloroethene-d2	4.02	63	207892	25.04	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.16%
20) 2-Butanone-d5	7.07	46	86261	64.15	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	128.30%
24) Chloroform-d	7.65	84	223236	26.04	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.16%
26) 1,2-Dichloroethane-d4	8.31	65	118388	26.40	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.60%
29) Benzene-d6	8.27	84	440746	25.02	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.08%
33) 1,2-Dichloropropane-d6	9.27	67	138300	26.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.12%
37) Toluene-d8	10.32	98	403137	24.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.24%
38) trans-1,3-Dichloropropene-	10.58	79	60949	25.68	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.72%
39) 2-Hexanone-d5	10.92	63	70621	70.21	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	140.42%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	131435	30.50	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	122.00%#
61) 1,2-Dichlorobenzene-d4	13.85	152	163111	25.29	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.16%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	79003	22.921	ug/L	95
3) Chloromethane	2.21	50	81294	21.789	ug/L	99
5) Vinyl chloride	2.37	62	134523	28.851	ug/L	99
6) Bromomethane	2.78	94	81489	24.187	ug/L	98
8) Chloroethane	2.93	64	77709	24.662	ug/L	97
9) Trichlorofluoromethane	3.26	101	72298	23.006	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	130954	26.463	ug/L	99
12) 1,1-Dichloroethene	4.04	96	130677	26.832	ug/L	98
13) Acetone	4.12	43	80025	53.619	ug/L	94
14) Carbon disulfide	4.39	76	369271	26.499	ug/L	100
15) Methyl Acetate	4.67	43	70915	29.080	ug/L	99
16) Methylene chloride	4.92	84	136315	23.231	ug/L	97
17) Methyl tert-butyl Ether	5.42	73	172503	25.599	ug/L #	93
18) trans-1,2-Dichloroethene	5.42	96	136236	25.306	ug/L	93
19) 1,1-Dichloroethane	6.21	63	234295	25.711	ug/L	98
21) 2-Butanone	7.17	43	101998	53.826	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	145501	25.179	ug/L	95

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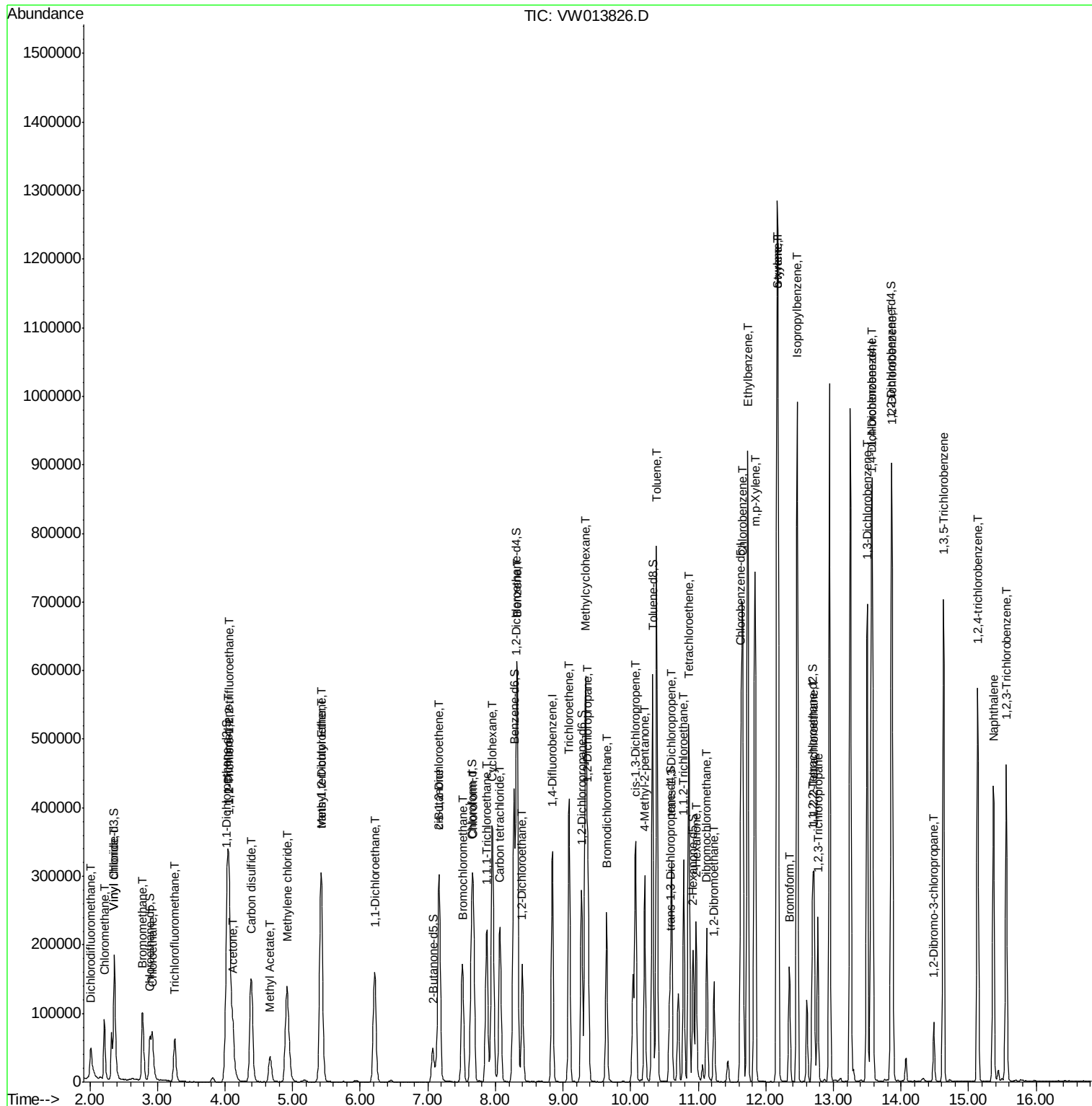
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	67123	25.699	ug/L	97
25) Chloroform	7.68	83	238356	26.039	ug/L	99
27) 1,2-Dichloroethane	8.40	62	154235	26.289	ug/L	97
30) Cyclohexane	7.96	56	228258	26.569	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	187434	27.404	ug/L	99
32) Carbon tetrachloride	8.07	117	180263	27.066	ug/L	99
34) Benzene	8.32	78	551284	26.201	ug/L	100
35) Trichloroethene	9.09	95	143774	26.633	ug/L	99
36) Methylcyclohexane	9.34	83	247573	26.019	ug/L	98
40) 1,2-Dichloropropane	9.37	63	133654	25.979	ug/L	100
41) Bromodichloromethane	9.64	83	170290	27.014	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	212175	26.122	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	195915	55.816	ug/L	99
44) Toluene	10.38	91	592843	26.225	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	176206	26.875	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	106132	26.749	ug/L	98
47) Tetrachloroethene	10.86	164	129790	26.265	ug/L	99
49) 2-Hexanone	10.97	43	145696	58.509	ug/L	98
50) Dibromochloromethane	11.13	129	125827	26.871	ug/L	95
51) 1,2-Dibromoethane	11.23	107	103065	26.712	ug/L	98
52) Chlorobenzene	11.66	112	375098	25.933	ug/L	99
53) Ethylbenzene	11.73	91	662242	26.514	ug/L	99
54) m,p-Xylene	11.84	106	256391	26.563	ug/L	98
55) o-xylene	12.16	106	239808	26.181	ug/L	99
56) Styrene	12.18	104	420926	26.864	ug/L	98
57) Isopropylbenzene	12.46	105	655906	26.697	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	133865	28.785	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	99876	28.800	ug/L	97
62) Bromoform	12.35	173	80911	25.873	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	312850	25.267	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	309023	24.836	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	286585	25.545	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.48	75	21389	27.738	ug/L	93
67) 1,3,5-Trichlorobenzene	14.63	180	236142	25.654	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	199623	25.545	ug/L	100
69) Naphthalene	15.36	128	383329	27.071	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	179902	25.707	ug/L	99

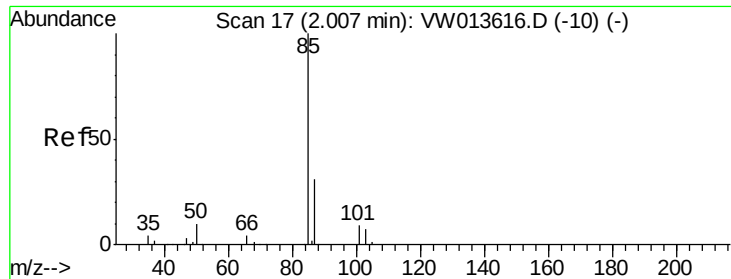
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#2

Dichlorodifluoromethane

Concen: 22.921 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

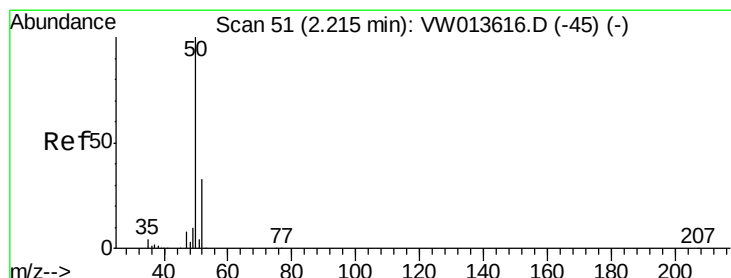
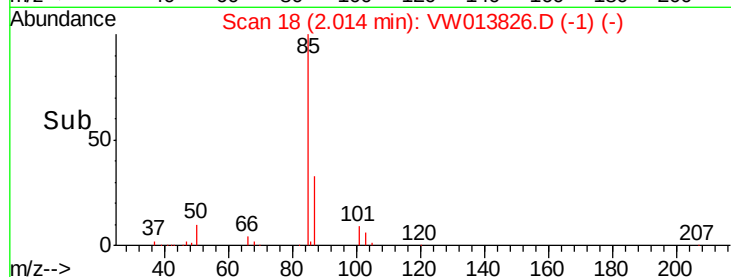
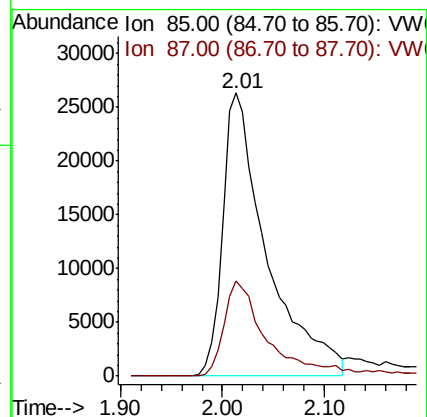
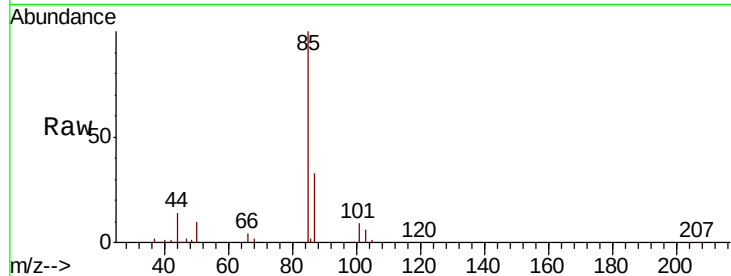
VSTD02510

Tot Ion: 85 Resp: 79003

Ion Ratio Lower Upper

85 100

87 31.3 20.2 37.4



#3

Chloromethane

Concen: 21.789 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013826.D

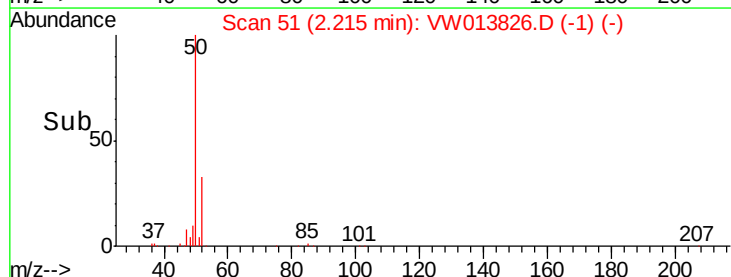
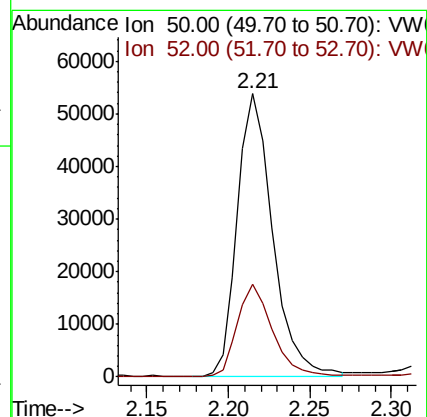
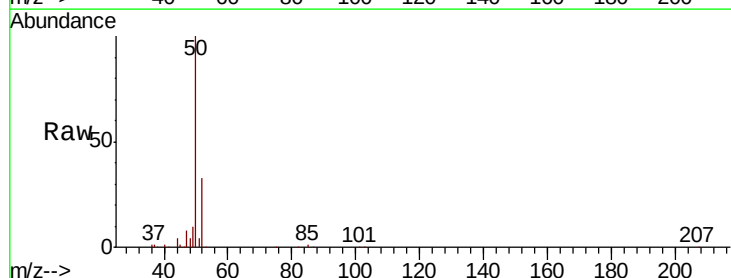
Acq: 30 Oct 2019 09:35

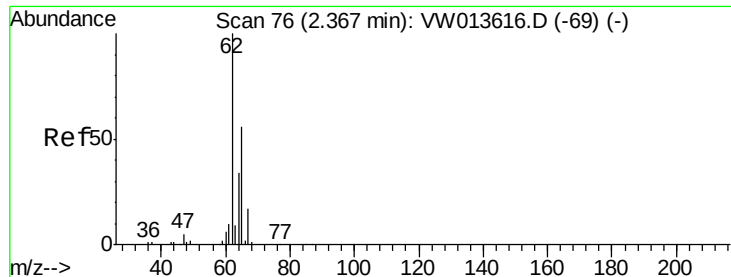
Tgt Ion: 50 Resp: 81294

Ion Ratio Lower Upper

50 100

52 32.8 23.3 43.3





#5

Vinyl chloride

Concen: 28.851 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

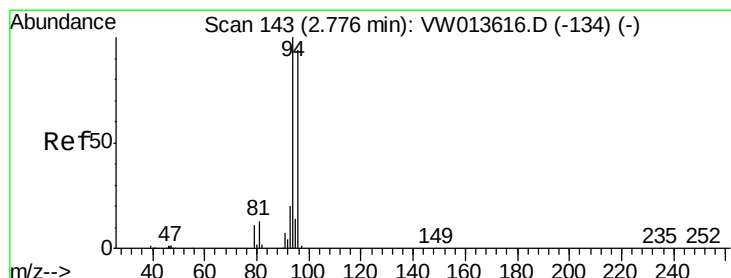
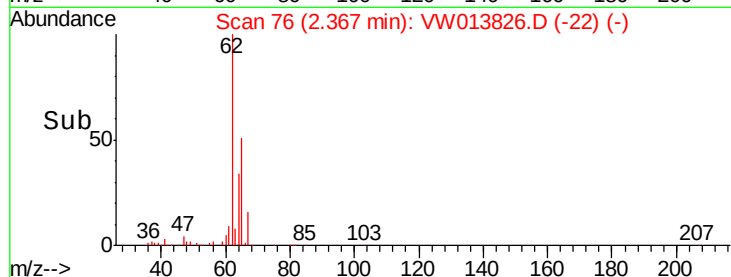
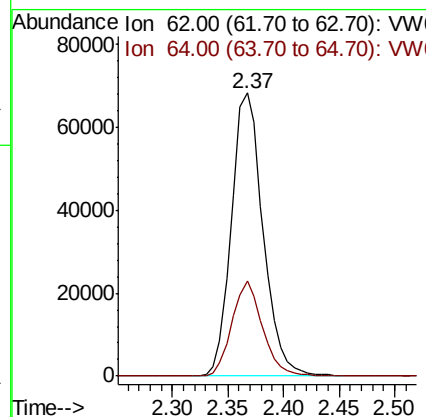
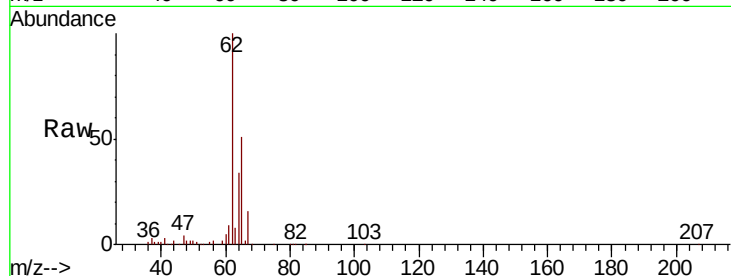
VSTD02510

Tot Ion: 62 Resp: 134523

Ion Ratio Lower Upper

62 100

64 33.8 23.9 44.5



#6

Bromomethane

Concen: 24.187 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW013826.D

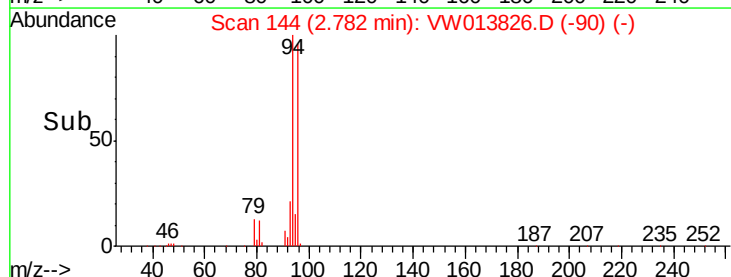
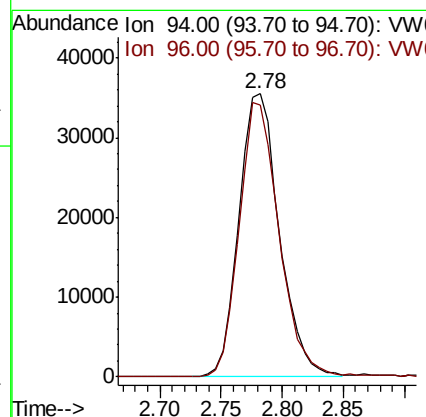
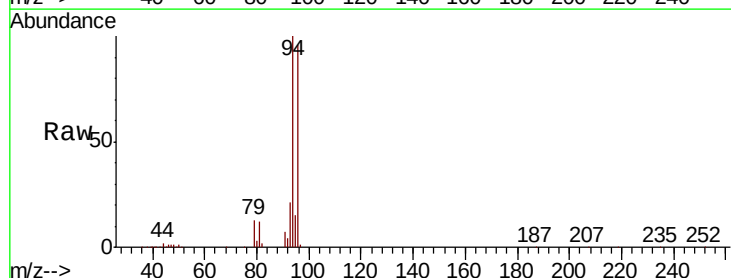
Acq: 30 Oct 2019 09:35

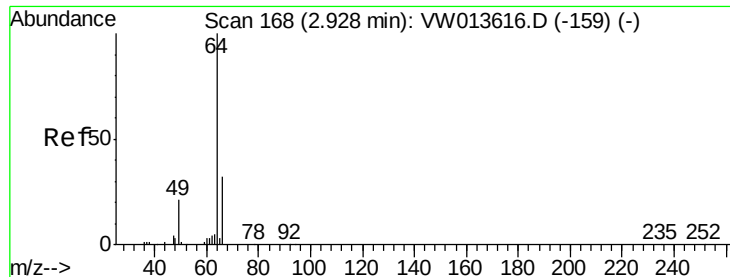
Tgt Ion: 94 Resp: 81489

Ion Ratio Lower Upper

94 100

96 95.3 9.3 176.9





#8

Chloroethane

Concen: 24.662 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

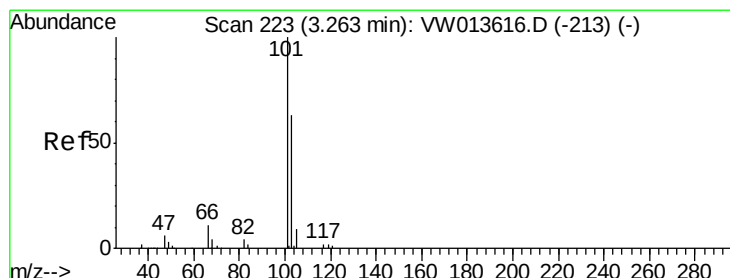
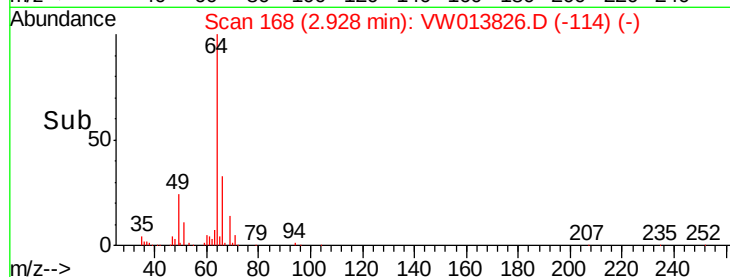
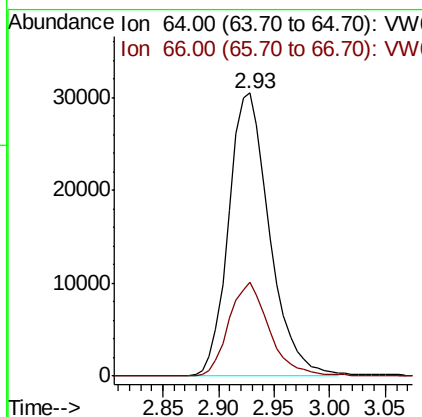
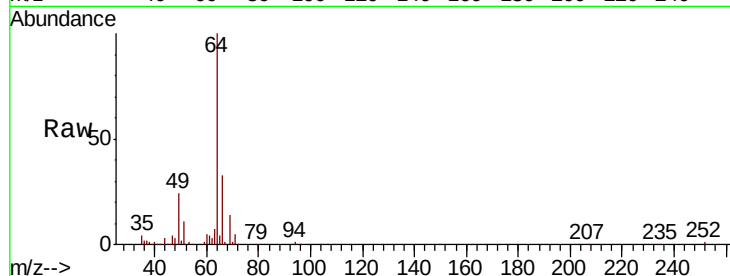
VSTD02510

Tot Ion: 64 Resp: 77709

Ion Ratio Lower Upper

64 100

66 33.4 22.2 41.2



#9

Trichlorofluoromethane

Concen: 23.006 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW013826.D

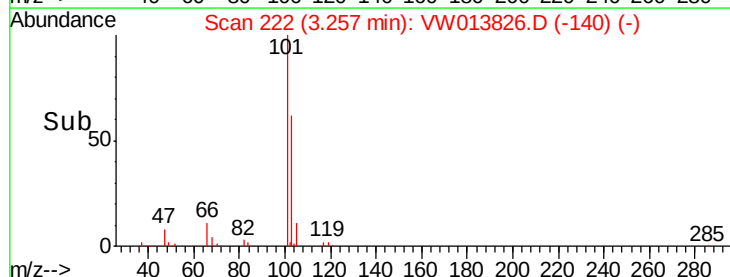
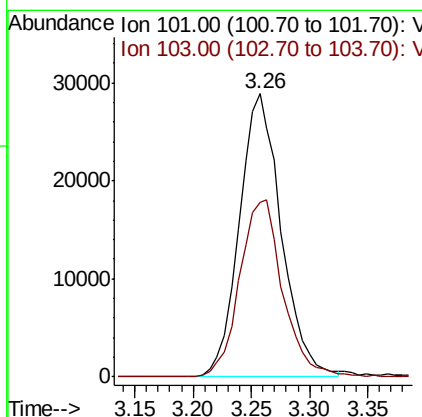
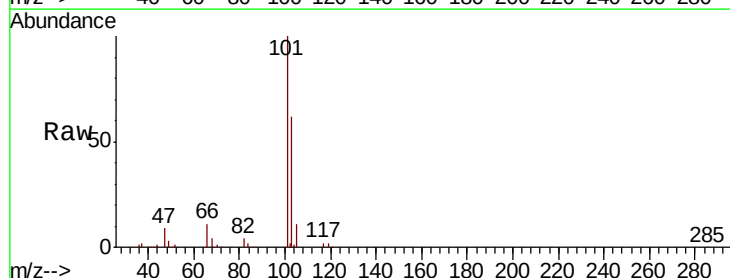
Acq: 30 Oct 2019 09:35

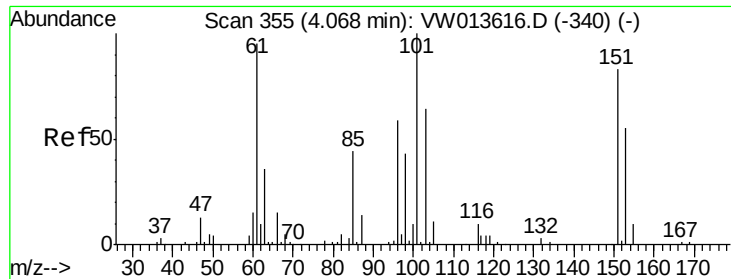
Tgt Ion: 101 Resp: 72298

Ion Ratio Lower Upper

101 100

103 64.5 46.5 86.5





#11

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

Concen: 26.463 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW013826.D

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VSTD02510

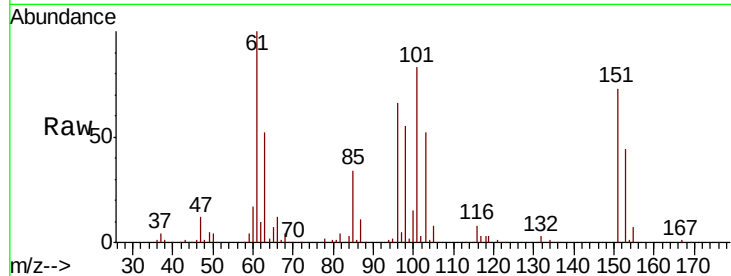
Tot Ion:101 Resp: 130954

Ion Ratio Lower Upper

101 100

85 41.1 32.0 48.0

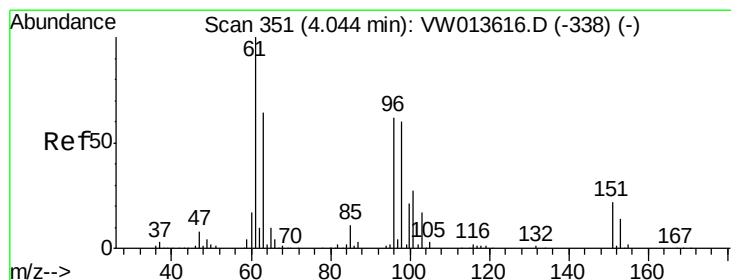
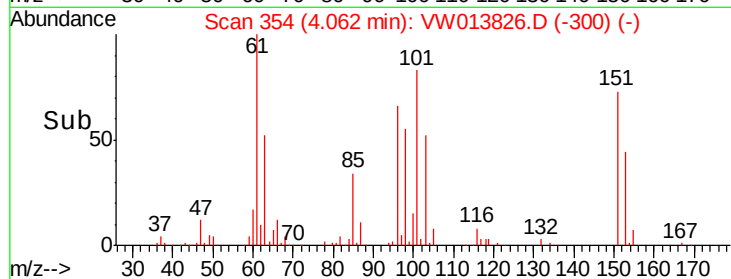
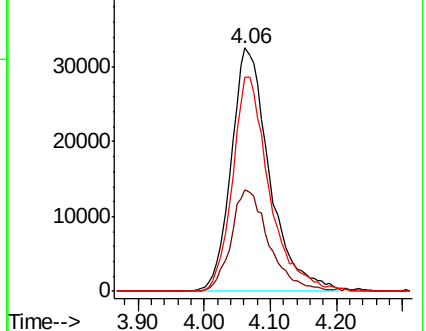
151 83.7 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.832 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

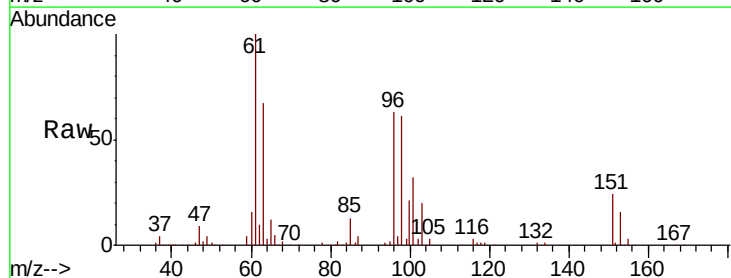
Tgt Ion: 96 Resp: 130677

Ion Ratio Lower Upper

96 100

61 157.9 112.7 209.3

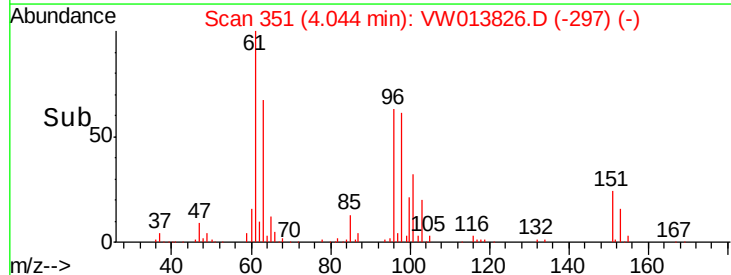
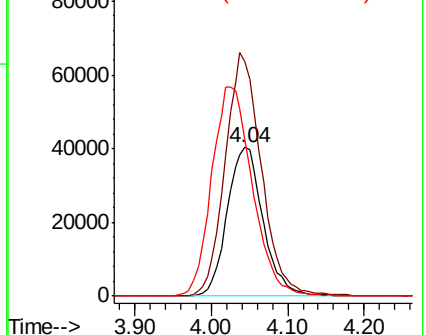
63 105.1 72.8 135.2

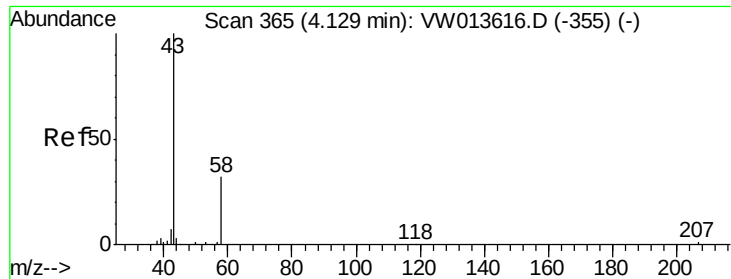


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 53.619 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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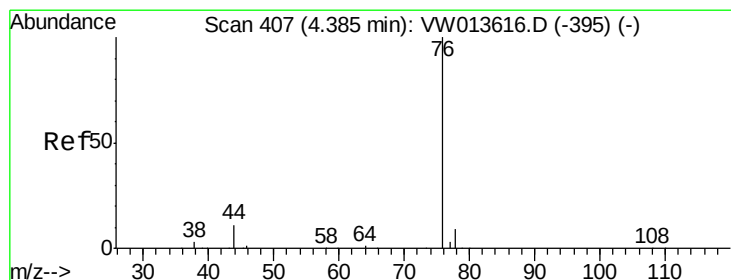
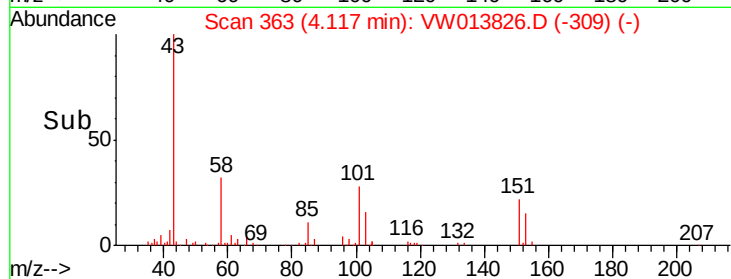
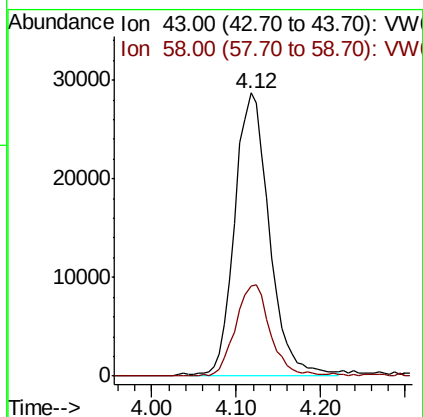
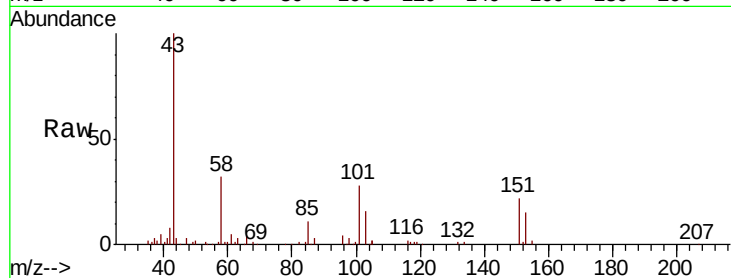
VSTD02510

Tot Ion: 43 Resp: 80025

Ion Ratio Lower Upper

43 100

58 31.7 0.0 70.4



#14

Carbon disulfide

Concen: 26.499 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW013826.D

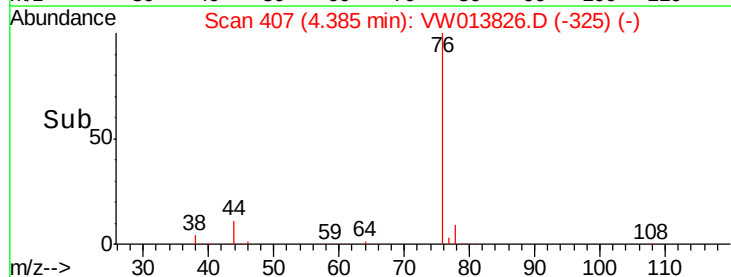
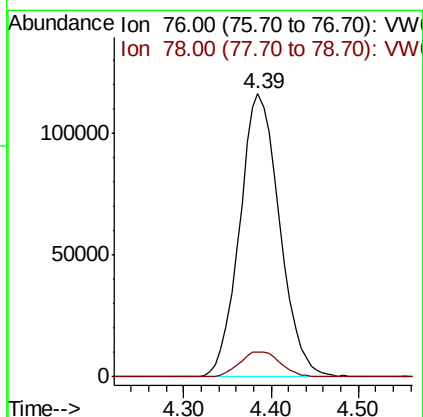
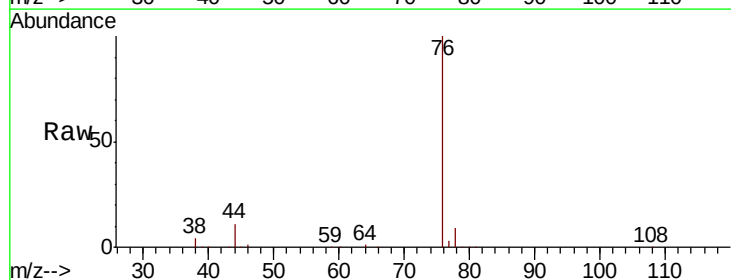
Acq: 30 Oct 2019 09:35

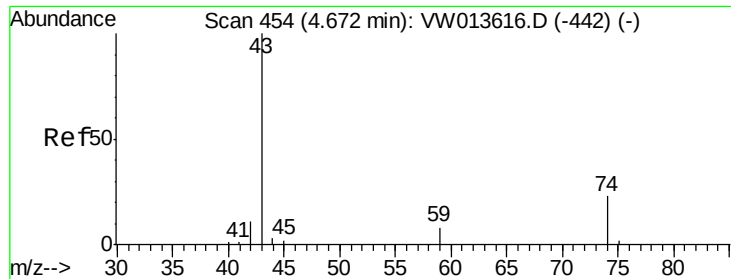
Tgt Ion: 76 Resp: 369271

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7

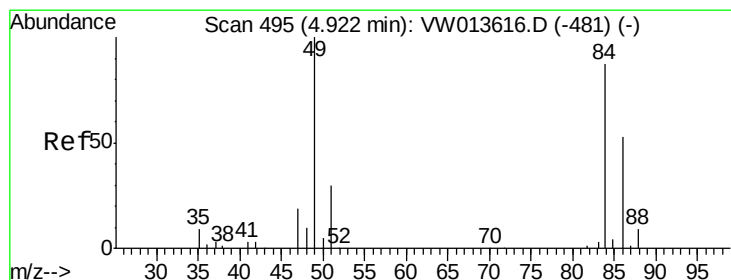
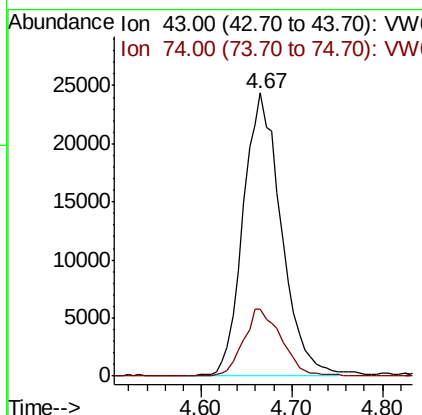
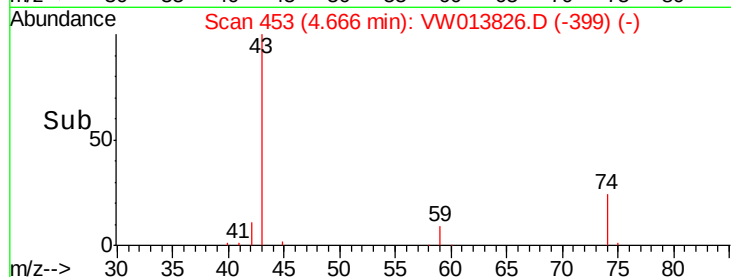
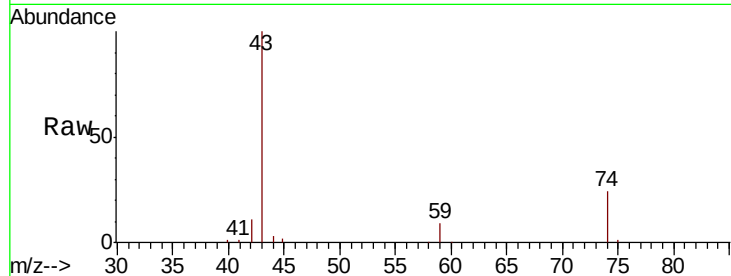




#15
Methvl Acetate
Concen: 29.080 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW013826.D
Acq: 30 Oct 2019 09:35

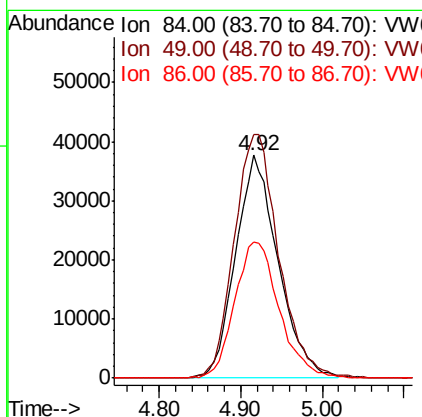
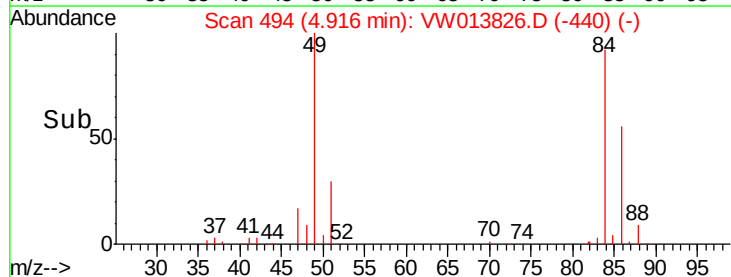
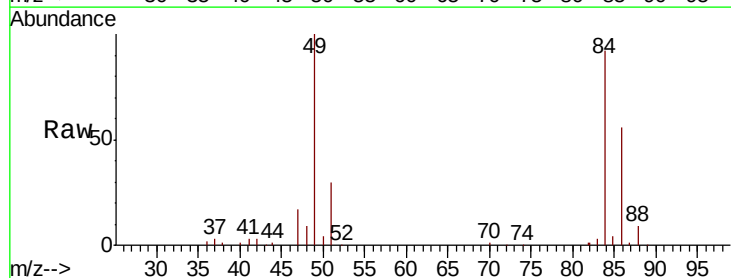
Instrument :
MSVOA_W
ClientSampled :
VSTD02510

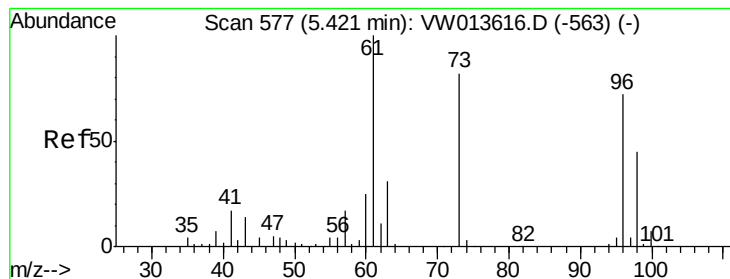
Tot Ion: 43 Resp: 70915
Ion Ratio Lower Upper
43 100
74 23.3 19.2 28.8



#16
Methylene chloride
Concen: 23.231 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW013826.D
Acq: 30 Oct 2019 09:35

Tgt Ion: 84 Resp: 136315
Ion Ratio Lower Upper
84 100
49 109.3 80.2 148.9
86 61.0 42.7 79.3





#17

Methyl tert-butyl Ether

Concen: 25.599 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

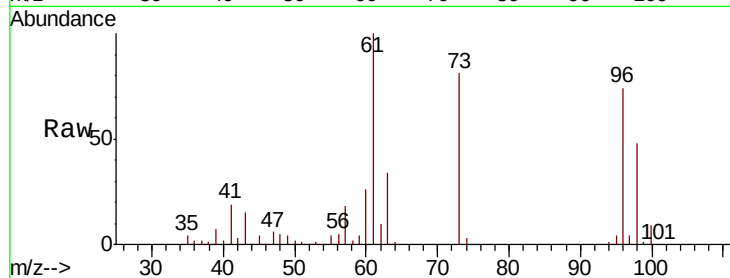
Tot Ion: 73 Resp: 172503

Ion Ratio Lower Upper

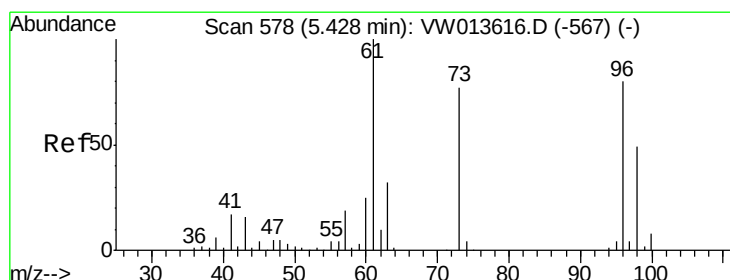
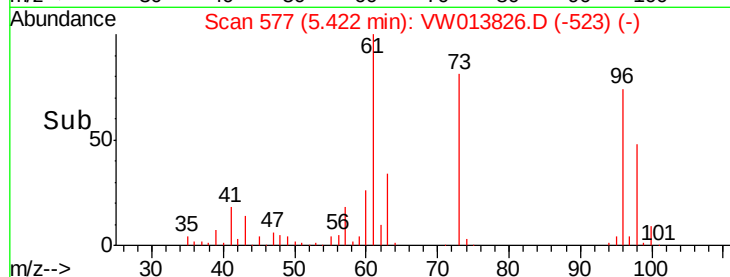
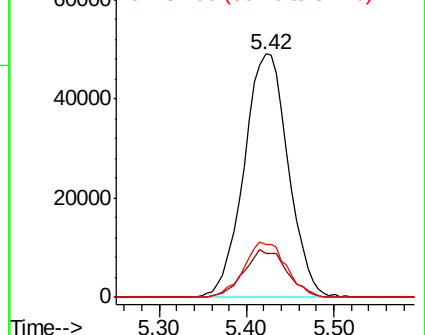
73 100

43 12.2 15.4 23.2#

57 22.0 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 25.306 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

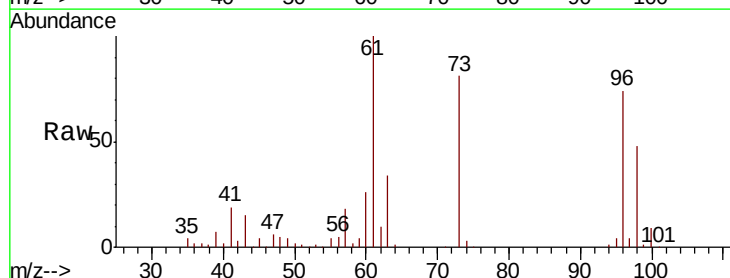
Tgt Ion: 96 Resp: 136236

Ion Ratio Lower Upper

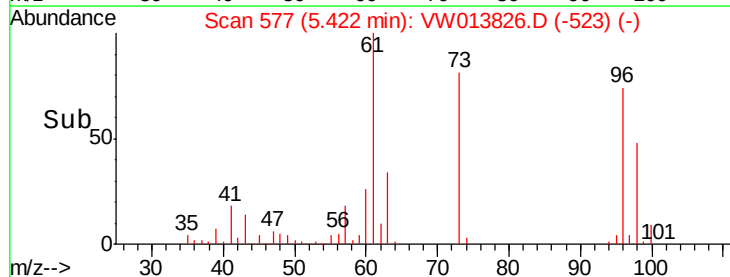
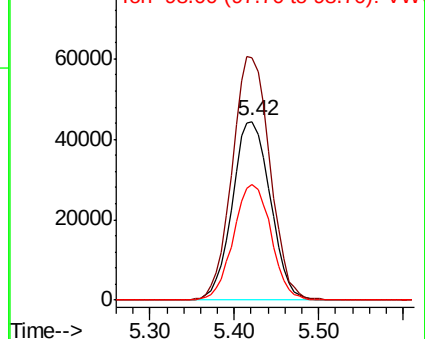
96 100

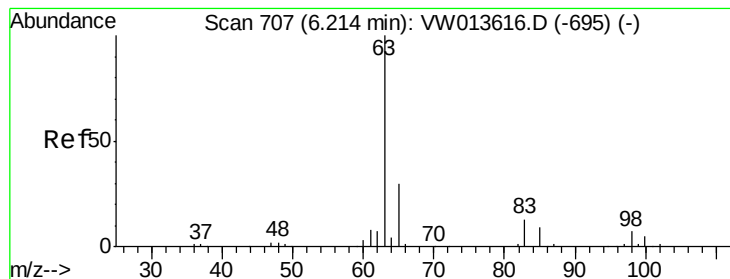
61 135.9 88.4 164.2

98 65.0 43.0 79.8



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: 25.711 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

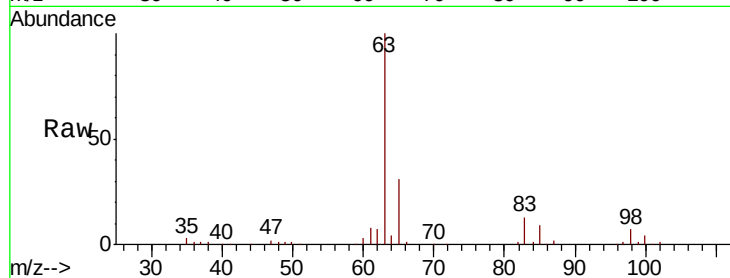
Tot Ion: 63 Resp: 234295

Ion Ratio Lower Upper

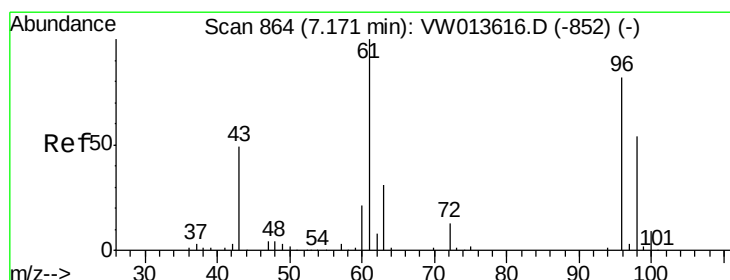
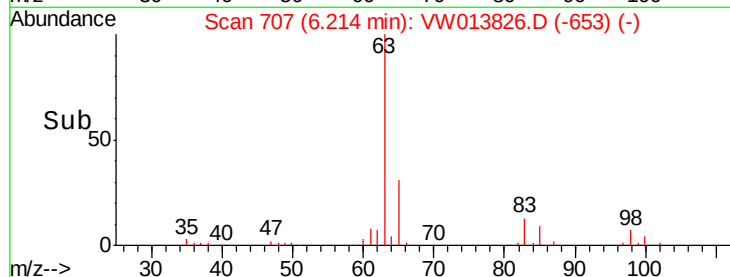
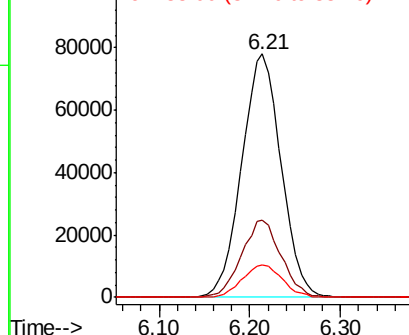
63 100

65 31.5 20.9 38.7

83 13.1 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 65.00 (64.70 to 65.70): VW
Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 53.826 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW013826.D

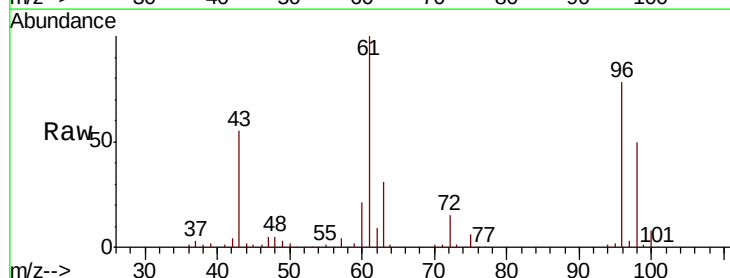
Acq: 30 Oct 2019 09:35

Tgt Ion: 43 Resp: 101998

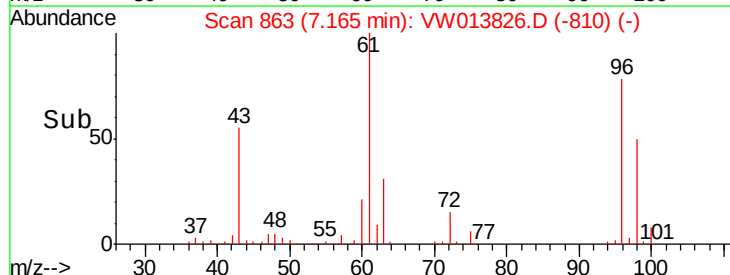
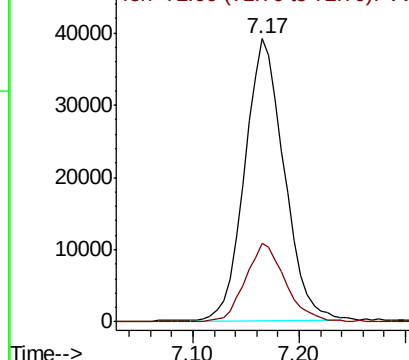
Ion Ratio Lower Upper

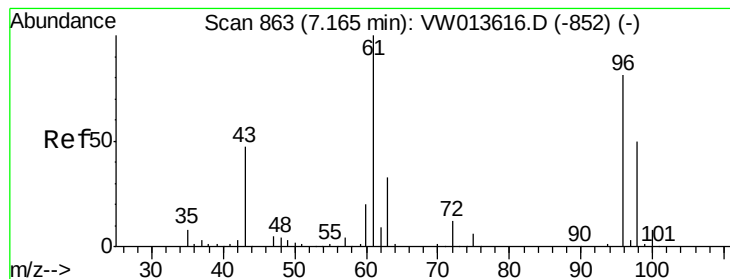
43 100

72 27.7 13.7 41.1



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



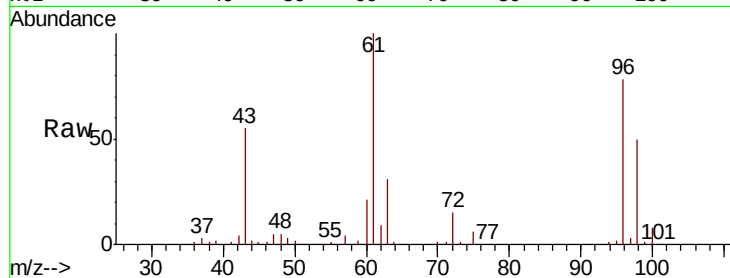


#22

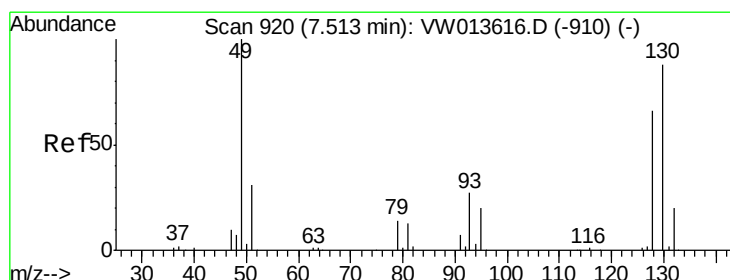
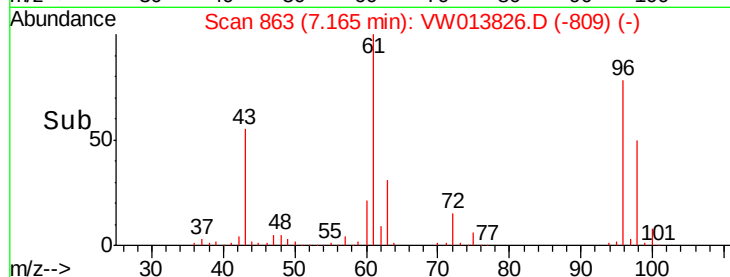
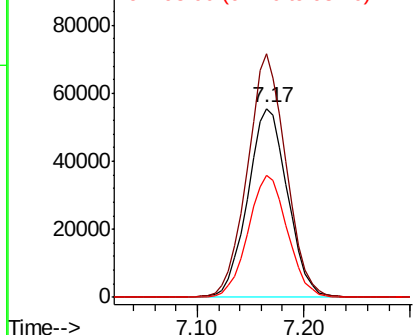
cis-1,2-Dichloroethene
 Concen: 25.179 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tot Ion: 96 Resp: 145501
 Ion Ratio Lower Upper
 96 100
 61 128.8 86.2 160.0
 98 64.6 43.0 79.8



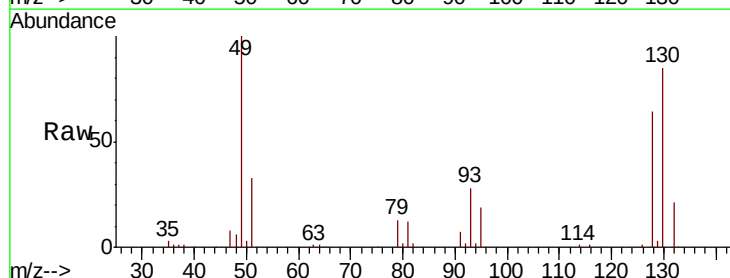
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



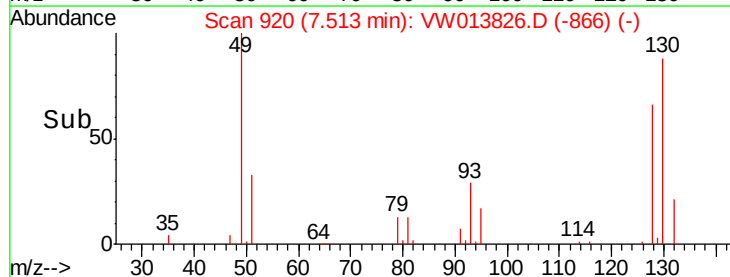
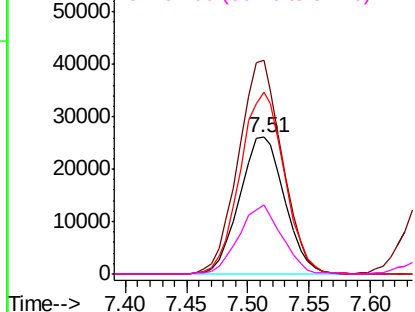
#23

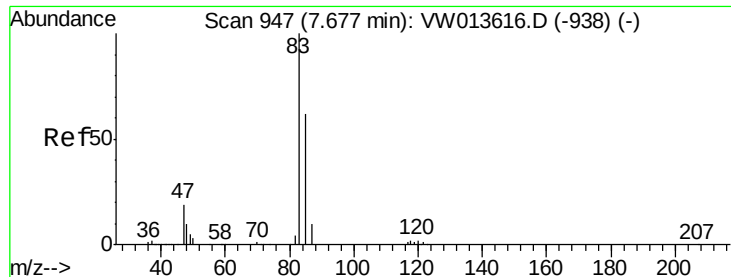
Bromochloromethane
 Concen: 25.699 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Tgt Ion: 128 Resp: 67123
 Ion Ratio Lower Upper
 128 100
 49 156.2 106.3 197.3
 130 133.3 93.2 173.2
 51 51.0 37.4 56.0



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: 26.039 ug/L

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

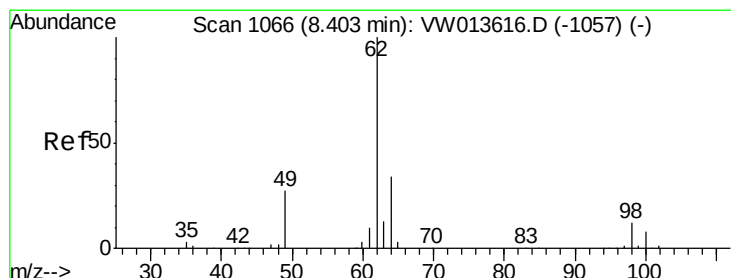
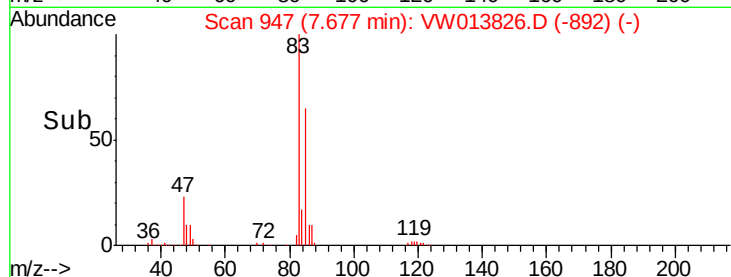
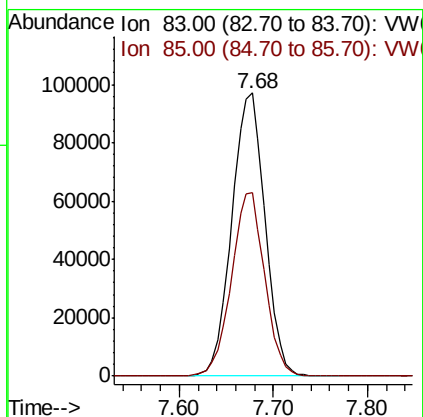
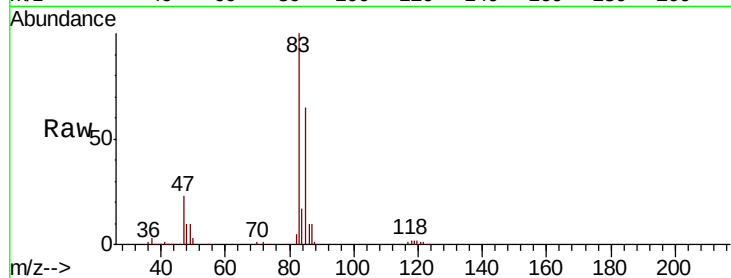
VSTD02510

Tot Ion: 83 Resp: 238356

Ion Ratio Lower Upper

83 100

85 64.9 46.1 85.7



#27

1,2-Dichloroethane

Concen: 26.289 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW013826.D

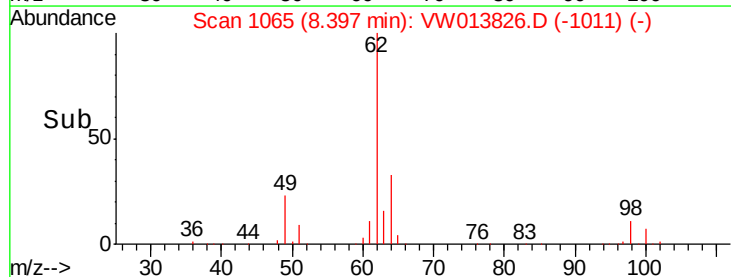
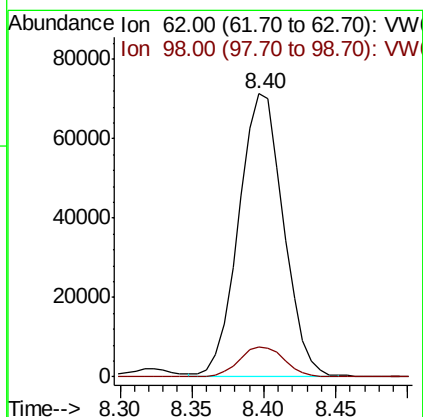
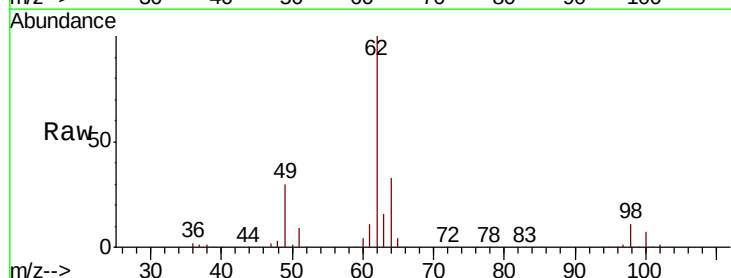
Acq: 30 Oct 2019 09:35

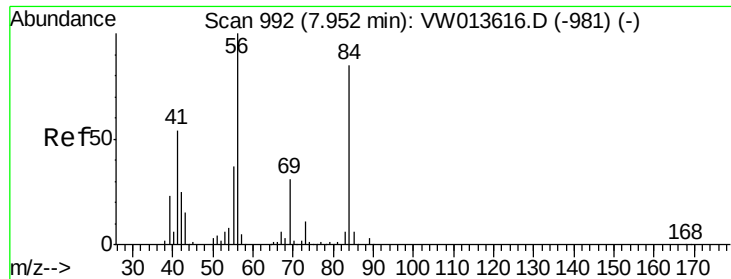
Tgt Ion: 62 Resp: 154235

Ion Ratio Lower Upper

62 100

98 10.8 9.6 14.4

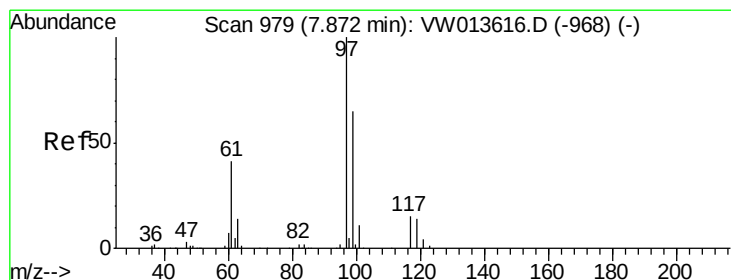
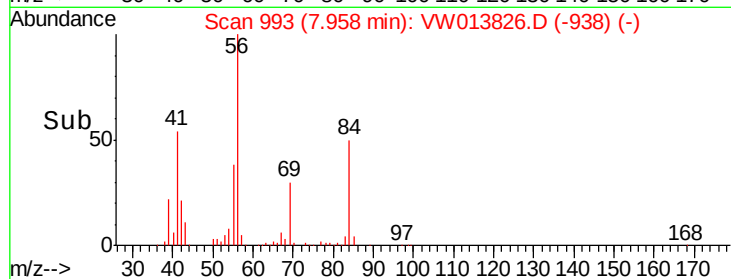
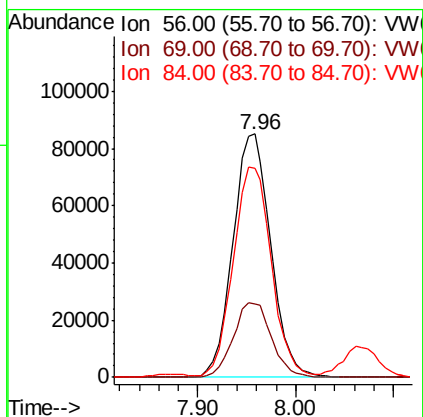
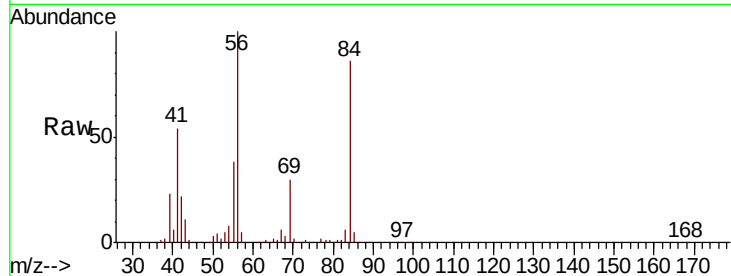




#30
Cyclohexane
Concen: 26.569 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW013826.D
Acq: 30 Oct 2019 09:35

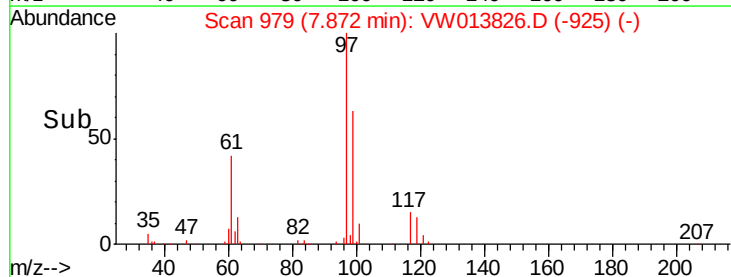
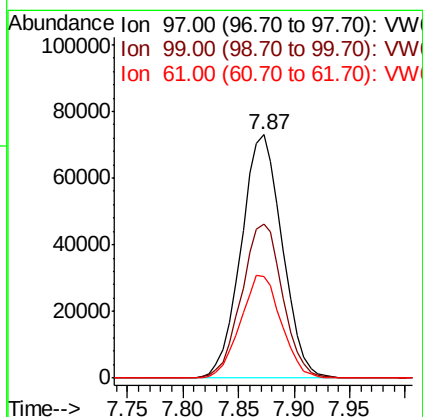
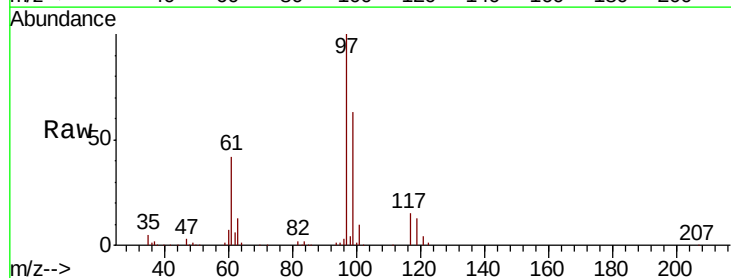
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

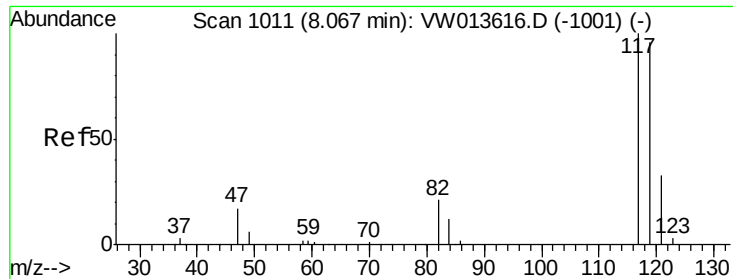
Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.6	37.0
84	87.6	71.1	106.7



#31
1,1,1-Trichloroethane
Concen: 27.404 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW013826.D
Acq: 30 Oct 2019 09:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.7	77.5
61	42.1	33.8	50.8





#32

Carbon tetrachloride

Concen: 27.066 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

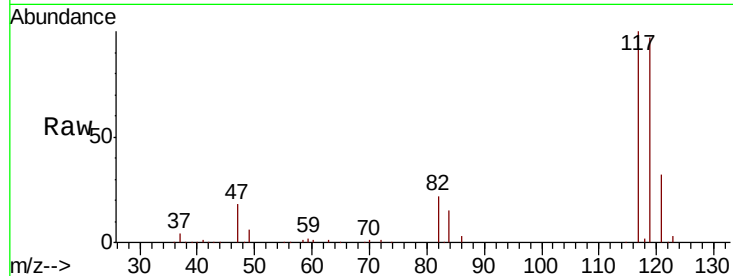
VSTD02510

Tot Ion:117 Resp: 180263

Ion Ratio Lower Upper

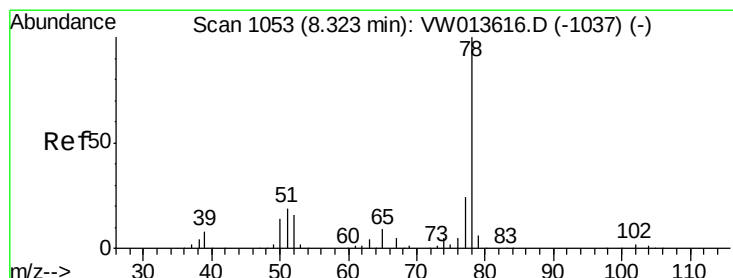
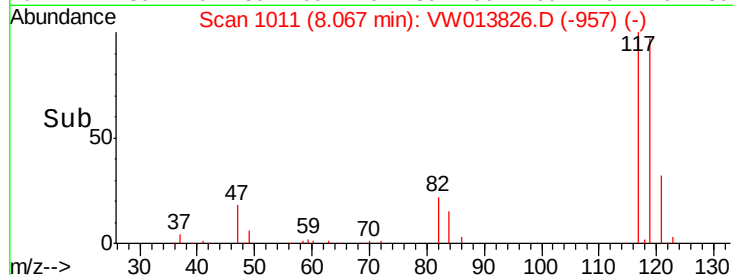
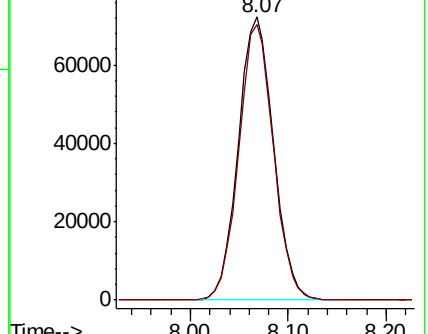
117 100

119 96.1 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.201 ug/L

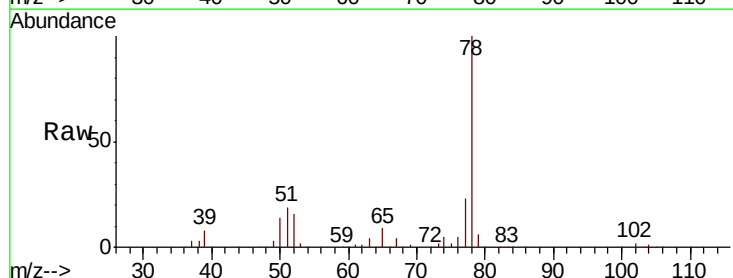
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

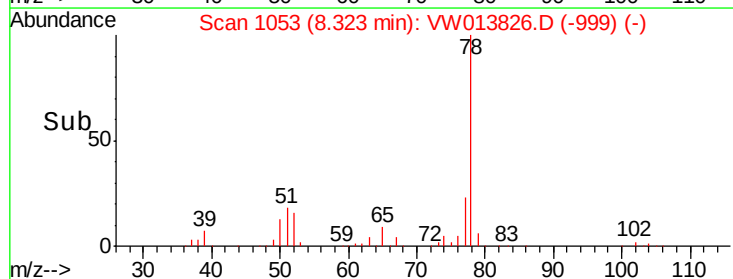
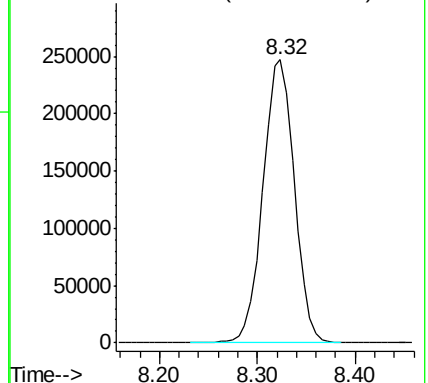
Lab File: VW013826.D

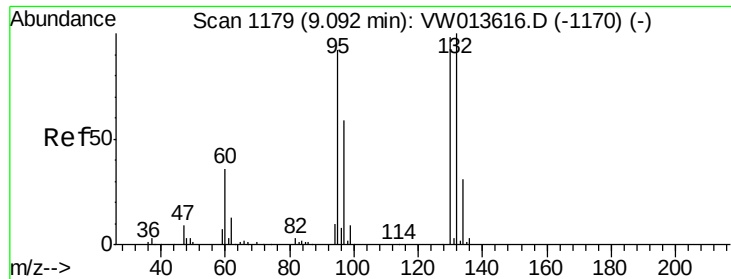
Acq: 30 Oct 2019 09:35

Tgt Ion: 78 Resp: 551284



Abundance Ion 78.00 (77.70 to 78.70): VW

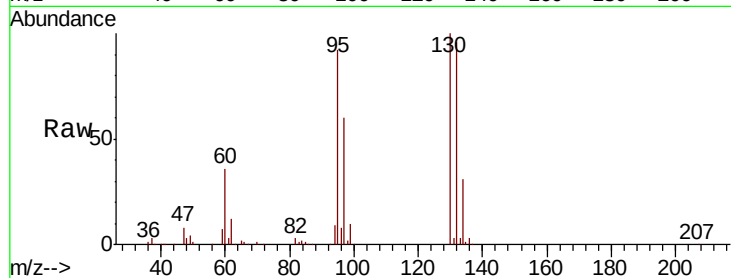




#35
 Trichloroethene
 Concen: 26.633 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tot Ion:	95	Resp:	143774
Ion	Ratio	Lower	Upper
95	100		
97	64.7	45.8	85.2
132	104.1	74.3	138.1
130	110.1	76.6	142.3



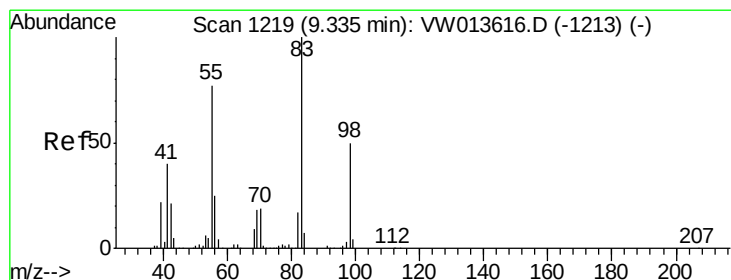
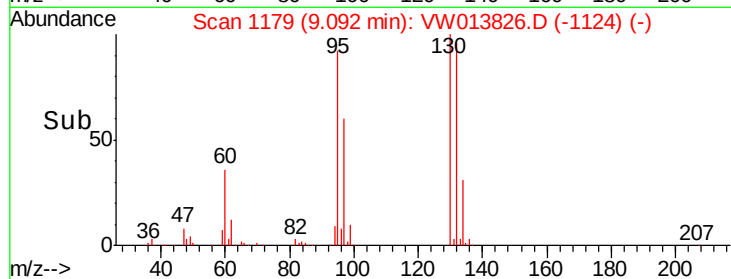
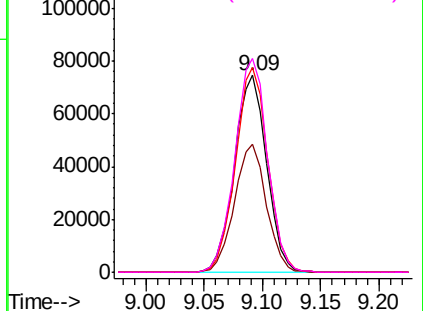
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

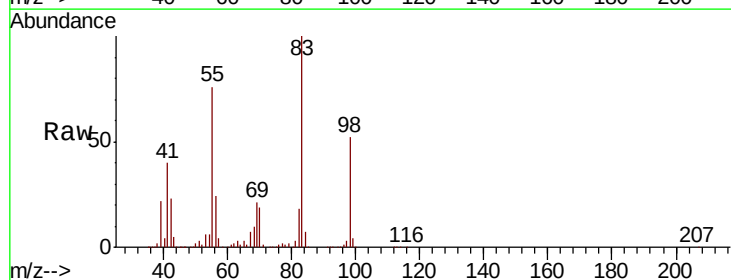
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36
 Methylcyclohexane
 Concen: 26.019 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Tgt Ion:	83	Resp:	247573
Ion	Ratio	Lower	Upper
83	100		
55	76.7	60.2	90.4
98	49.9	39.1	58.7

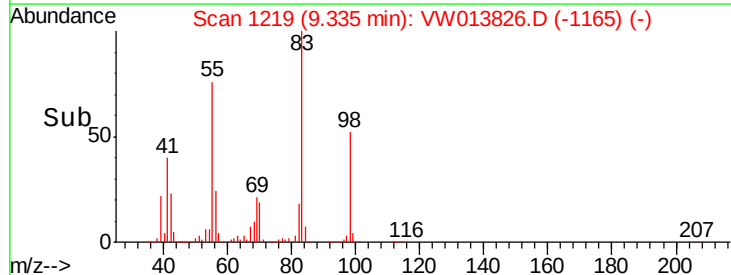
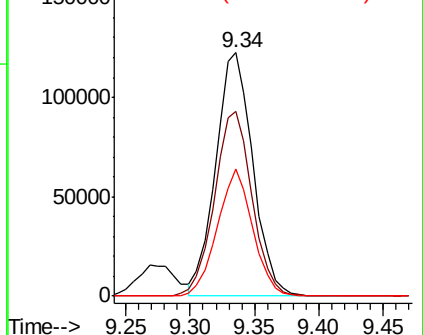


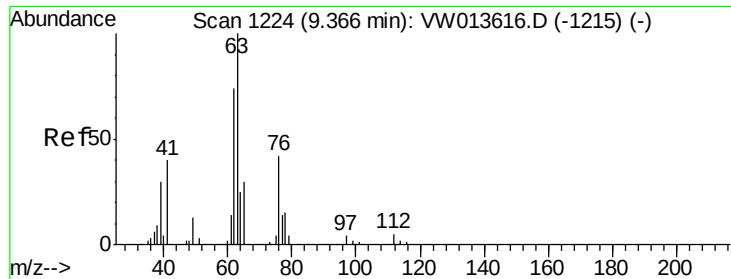
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

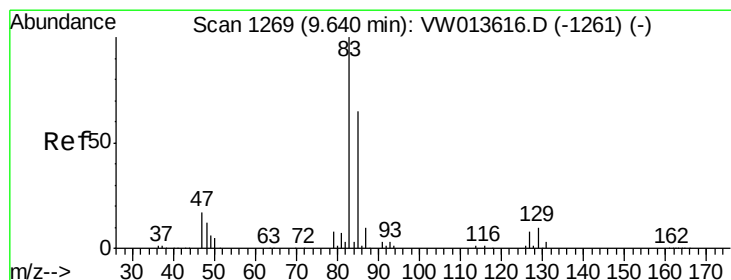
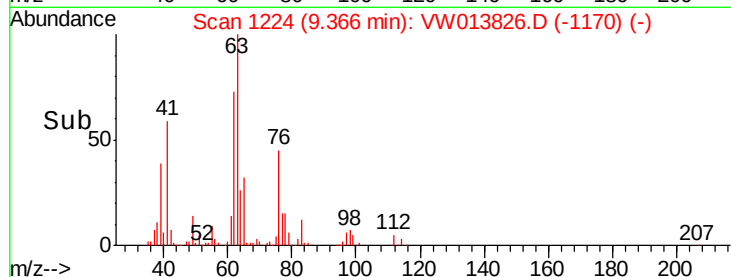
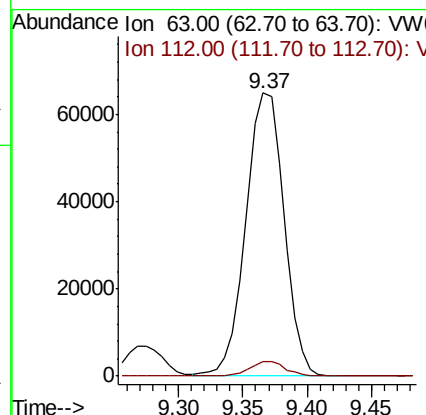
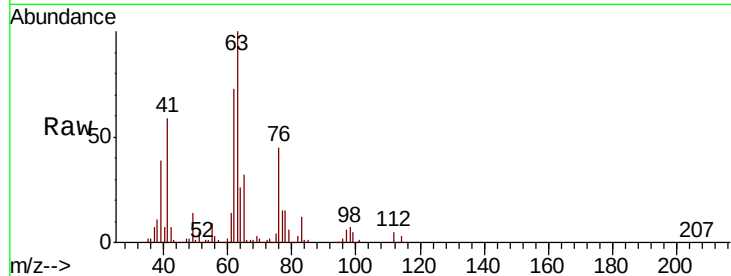




#40
 1,2-Dichloropropane
 Concen: 25.979 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

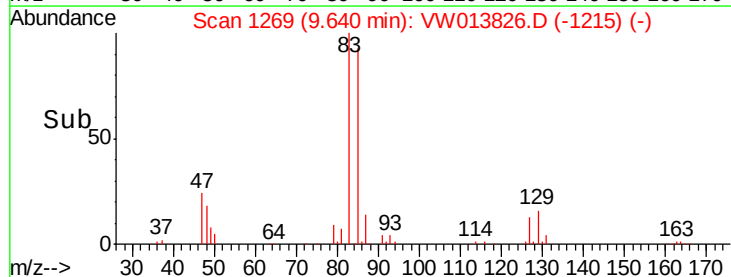
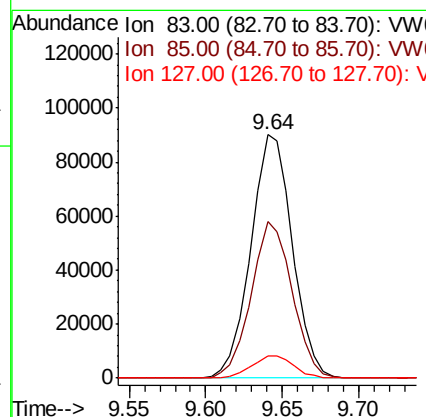
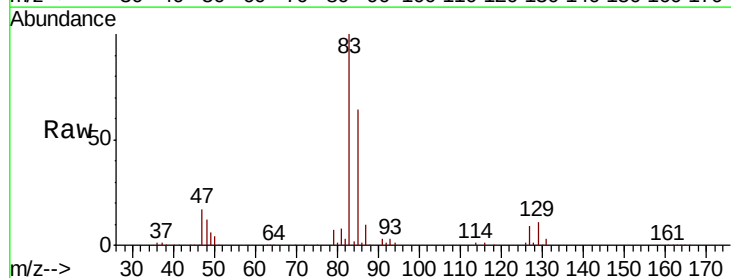
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

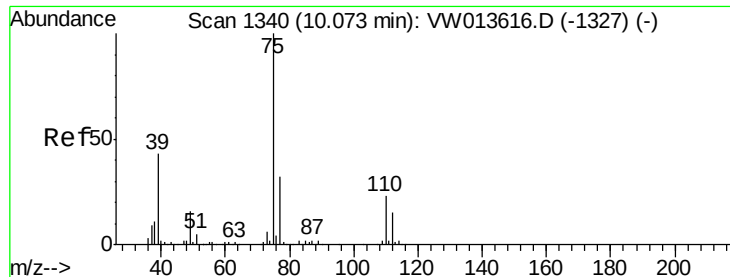
Tot Ion: 63 Resp: 133654
 Ion Ratio Lower Upper
 63 100
 112 4.9 3.9 5.9



#41
 Bromodichloromethane
 Concen: 27.014 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Tgt Ion: 83 Resp: 170290
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.8 85.0
 127 9.0 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 26.122 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampled :

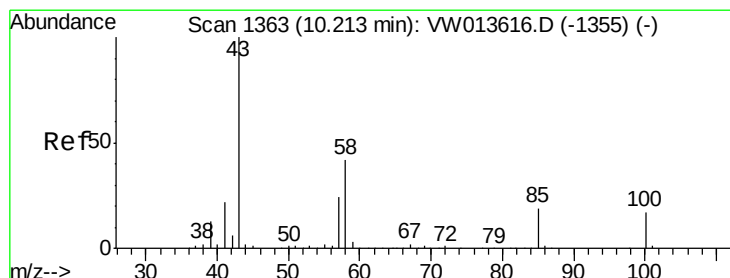
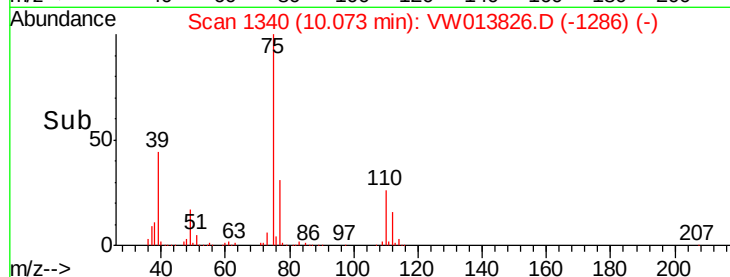
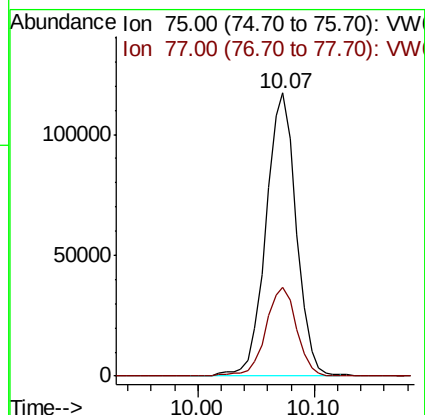
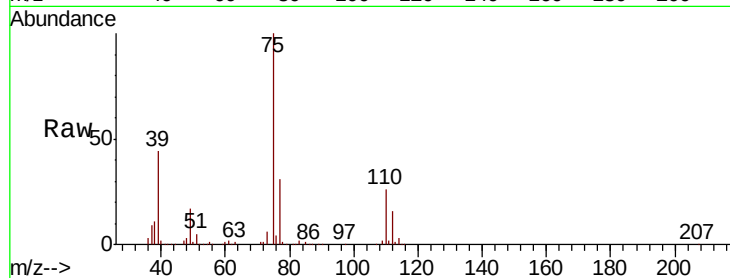
VSTD02510

Tot Ion: 75 Resp: 212175

Ion Ratio Lower Upper

75 100

77 31.2 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 55.816 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

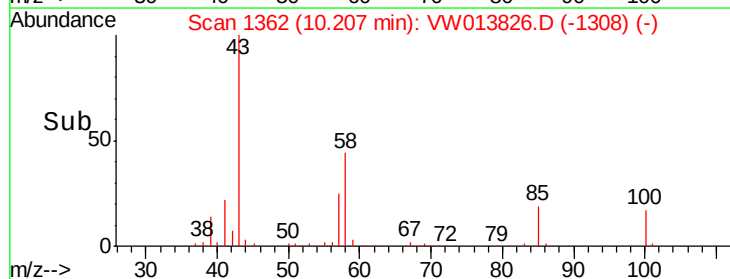
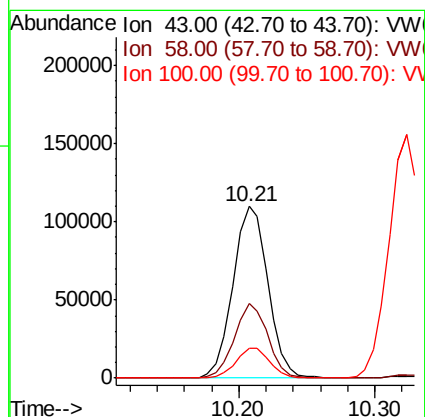
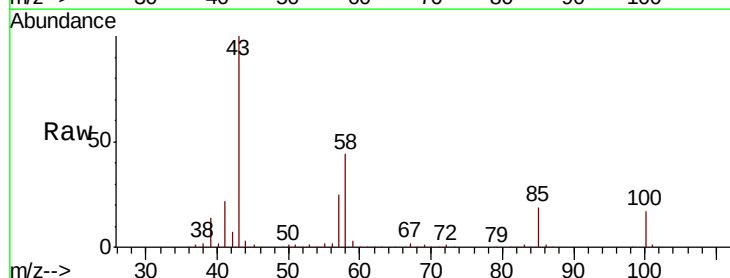
Tgt Ion: 43 Resp: 195915

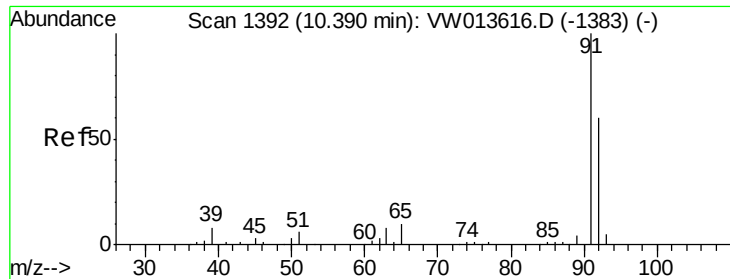
Ion Ratio Lower Upper

43 100

58 41.7 32.8 49.2

100 17.1 13.7 20.5





#44

Toluene

Concen: 26.225 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

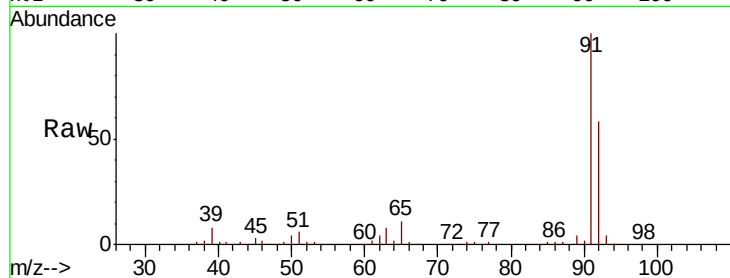
VSTD02510

Tot Ion: 91 Resp: 592843

Ion Ratio Lower Upper

91 100

92 57.9 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.38

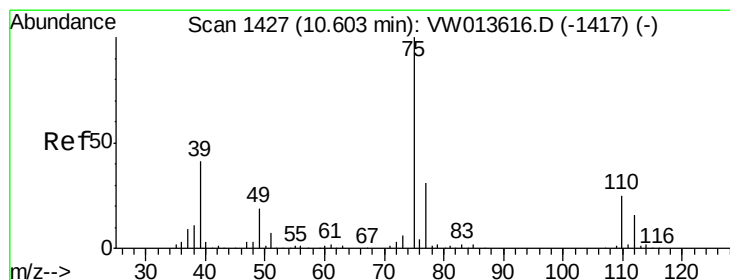
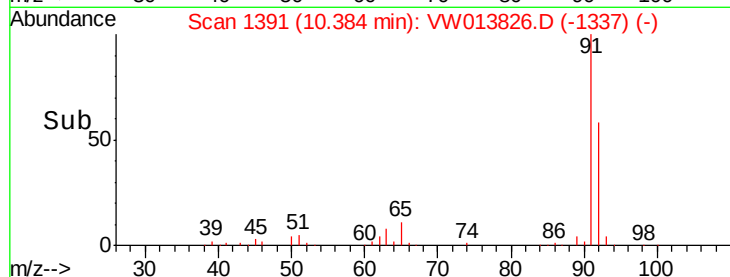
300000

200000

100000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.875 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013826.D

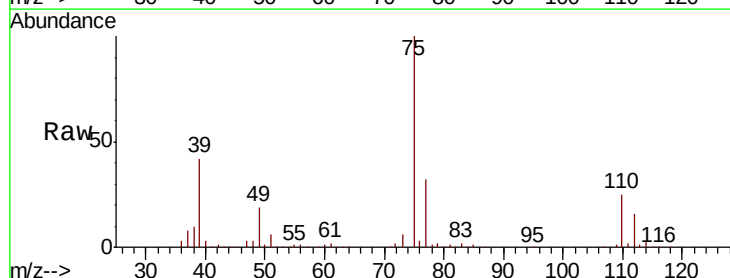
Acq: 30 Oct 2019 09:35

Tgt Ion: 75 Resp: 176206

Ion Ratio Lower Upper

75 100

77 32.0 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

120000

100000

80000

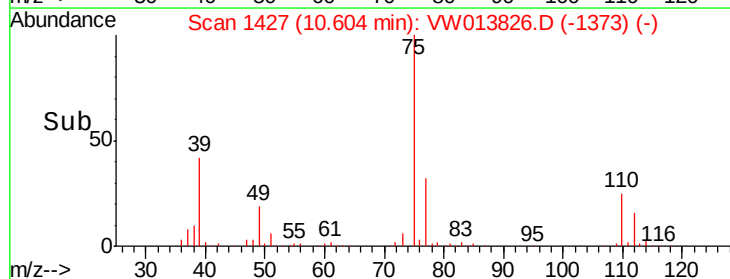
60000

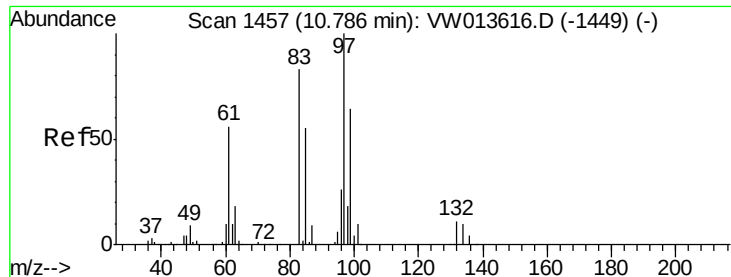
40000

20000

0

Time-->

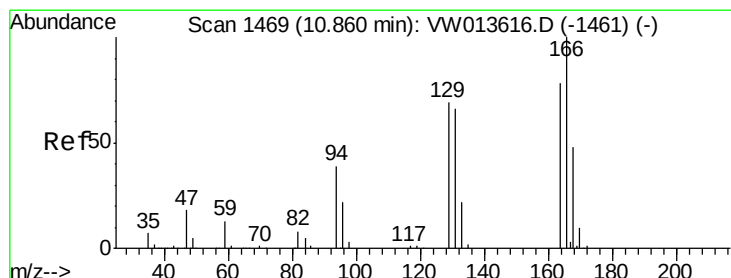
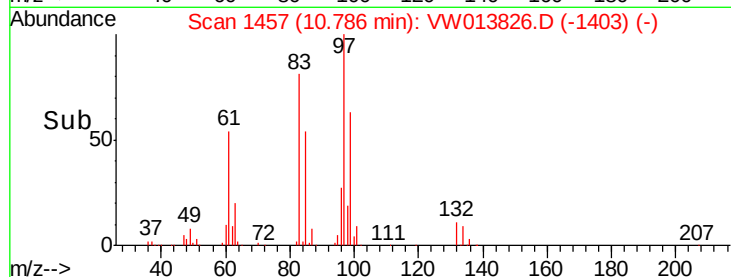
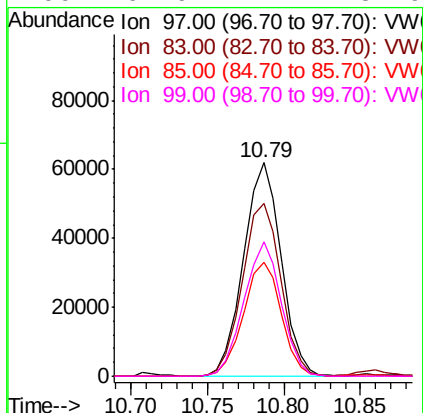
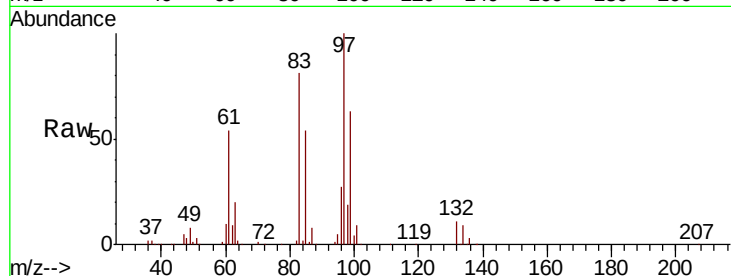




#46
 1,1,2-Trichloroethane
 Concen: 26.749 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

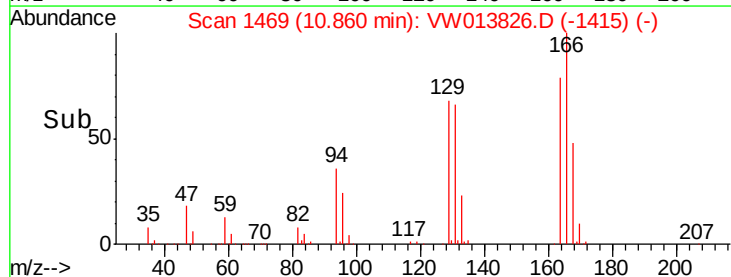
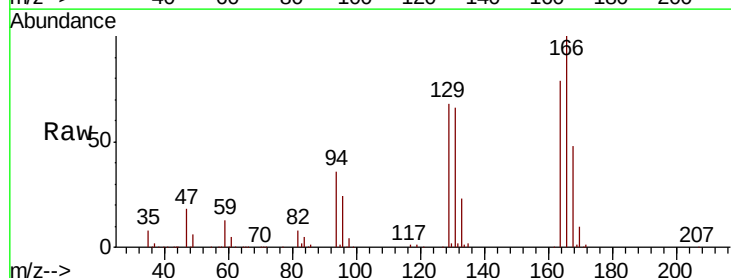
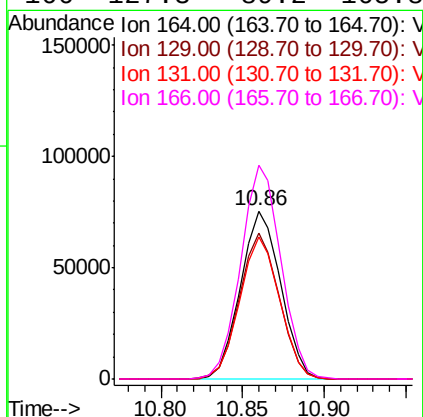
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

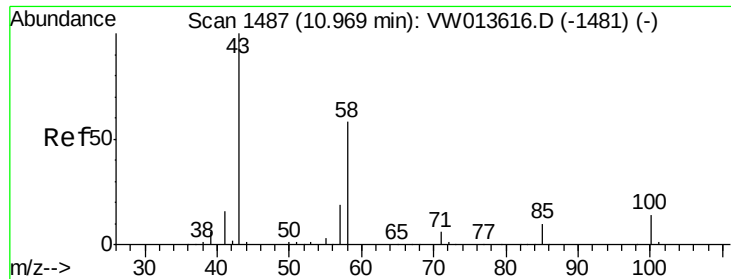
Tot Ion:	97	Resp:	106132
Ion	Ratio	Lower	Upper
97	100		
83	80.9	57.7	107.3
85	53.6	38.6	71.6
99	62.9	44.7	82.9



#47
 Tetrachloroethene
 Concen: 26.265 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Tgt Ion:	164	Resp:	129790
Ion	Ratio	Lower	Upper
164	100		
129	86.9	61.8	114.8
131	84.5	59.2	110.0
166	127.3	89.2	165.8





#49

2-Hexanone

Concen: 58.509 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

Tot Ion: 43 Resp: 145696

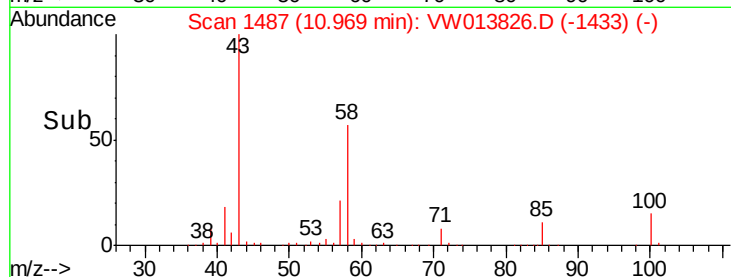
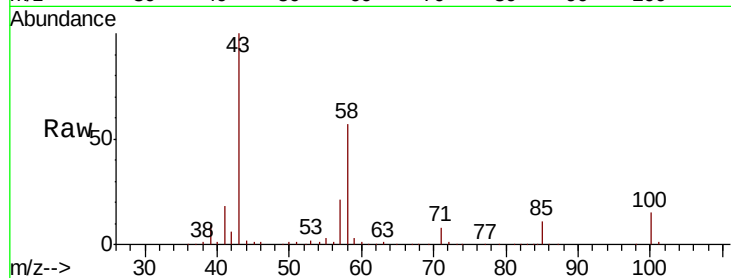
Ion Ratio Lower Upper

43 100

58 56.3 45.8 68.6

57 20.6 15.4 23.2

100 14.0 10.8 16.2

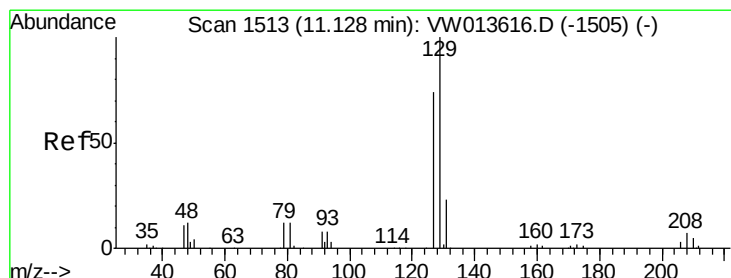
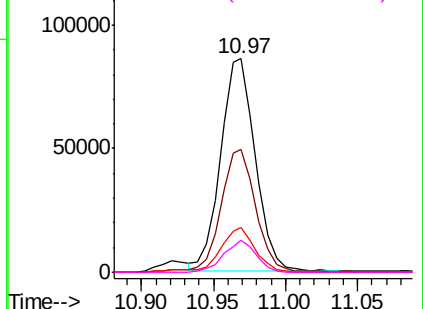


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 26.871 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW013826.D

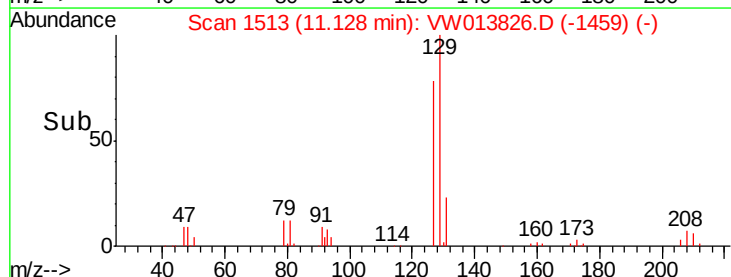
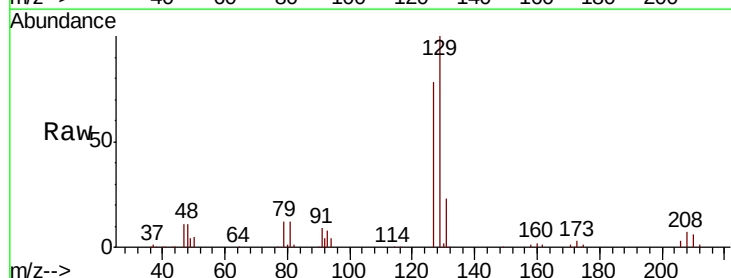
Acq: 30 Oct 2019 09:35

Tgt Ion: 129 Resp: 125827

Ion Ratio Lower Upper

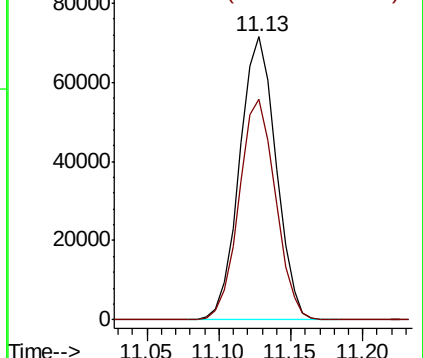
129 100

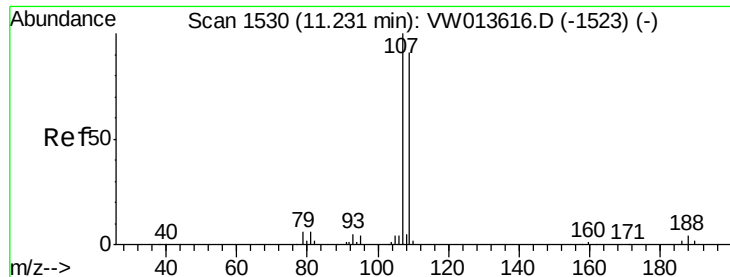
127 78.1 51.4 95.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

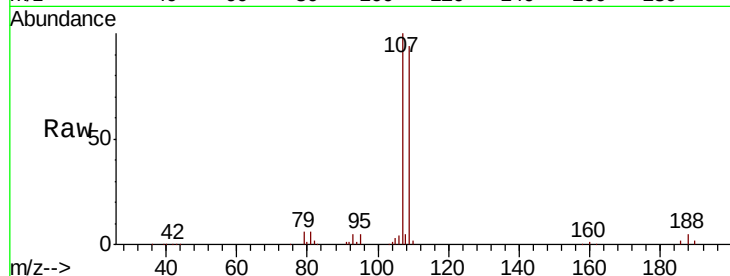




#51
1,2-Dibromoethane
Concen: 26.712 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW013826.D
Acq: 30 Oct 2019 09:35

Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.7	64.0	118.8
188	4.5	3.4	5.2

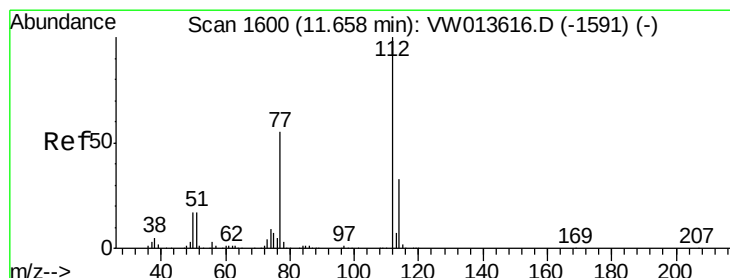
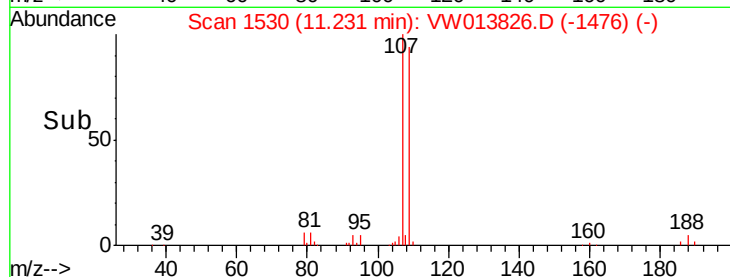
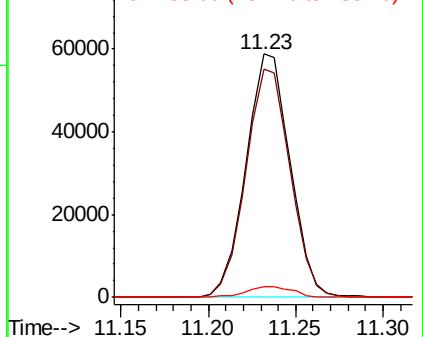


Abundance

Ion 107.00 (106.70 to 107.70): V

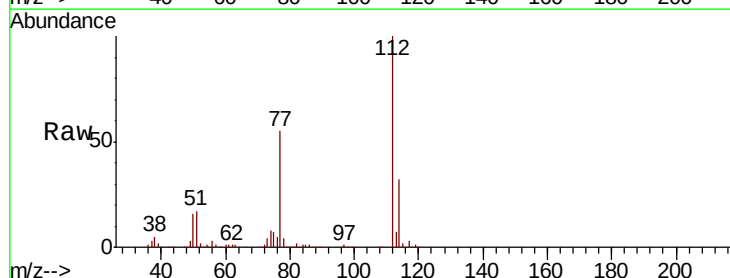
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52
Chlorobenzene
Concen: 25.933 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013826.D
Acq: 30 Oct 2019 09:35

Tgt Ion	Ratio	Lower	Upper
112	100		
77	54.9	44.1	66.1
114	32.1	23.4	43.4

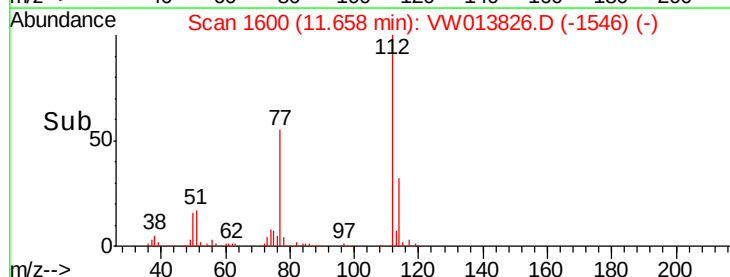
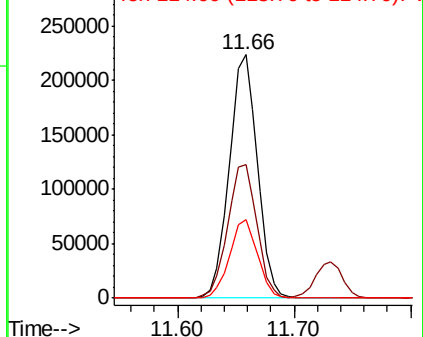


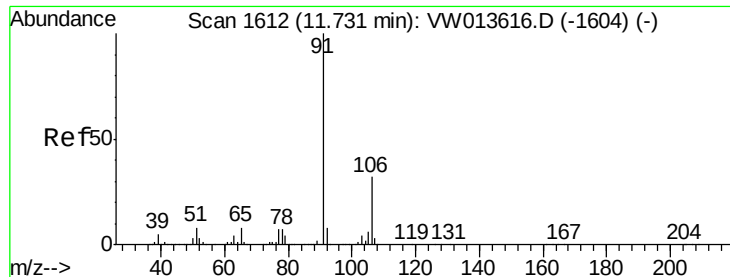
Abundance

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: 26.514 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

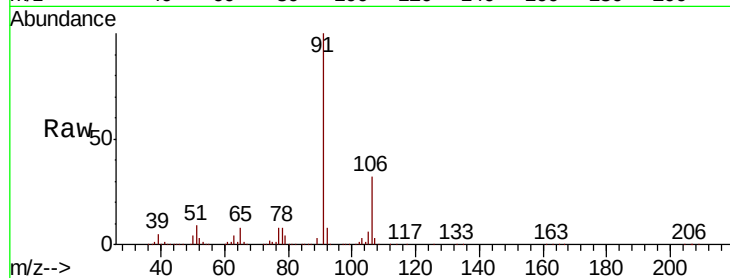
VSTD02510

Tot Ion: 91 Resp: 662242

Ion Ratio Lower Upper

91 100

106 32.1 22.3 41.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.73

400000

300000

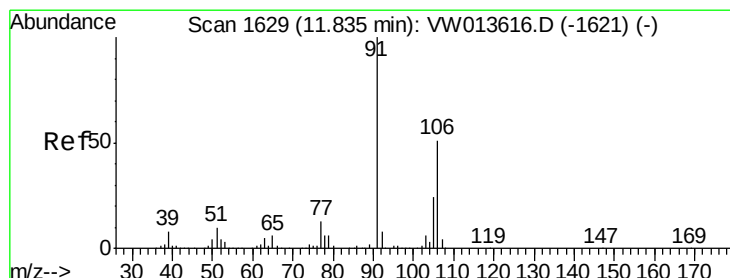
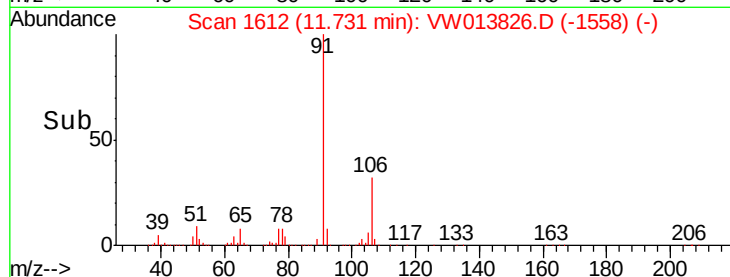
200000

100000

0

11.70 11.80

Time-->



#54

m,p-Xylene

Concen: 26.563 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW013826.D

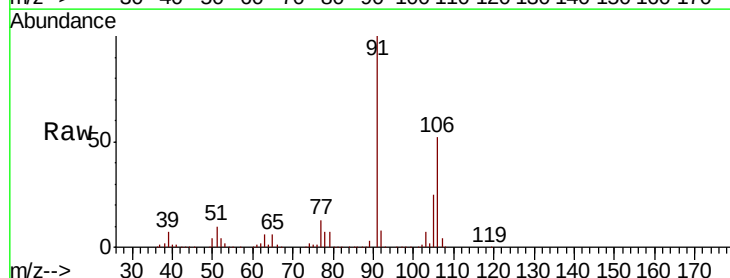
Acq: 30 Oct 2019 09:35

Tgt Ion: 106 Resp: 256391

Ion Ratio Lower Upper

106 100

91 193.6 137.7 255.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

11.84

400000

300000

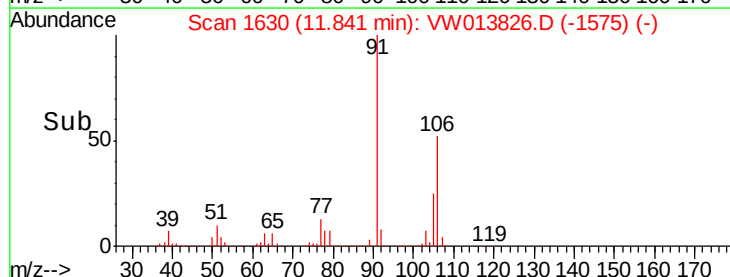
200000

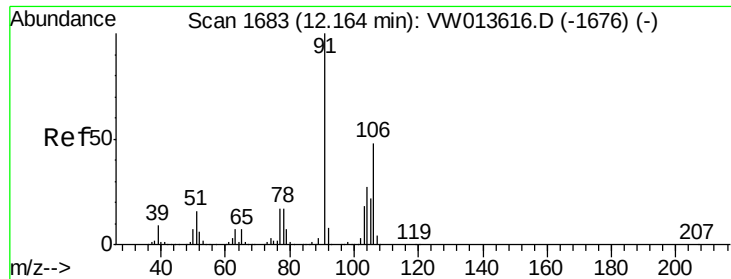
100000

0

11.80 11.90

Time-->





#55

o-xylene

Concen: 26.181 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampled :

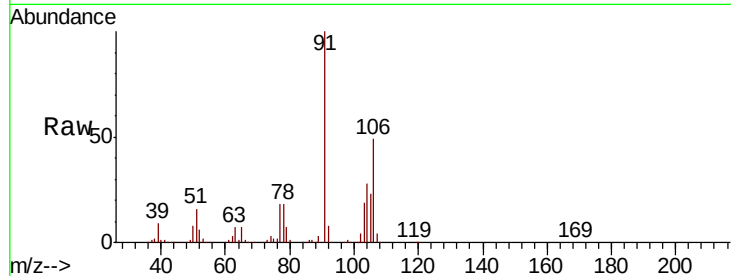
VSTD02510

Tot Ion:106 Resp: 239808

Ion Ratio Lower Upper

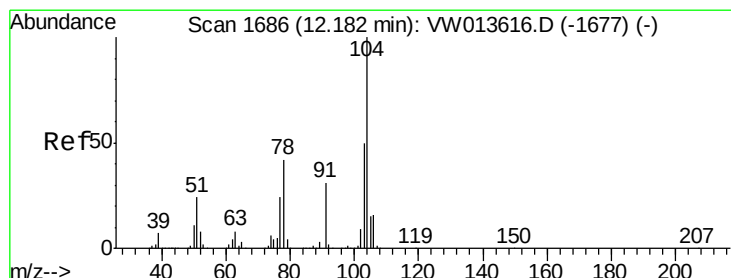
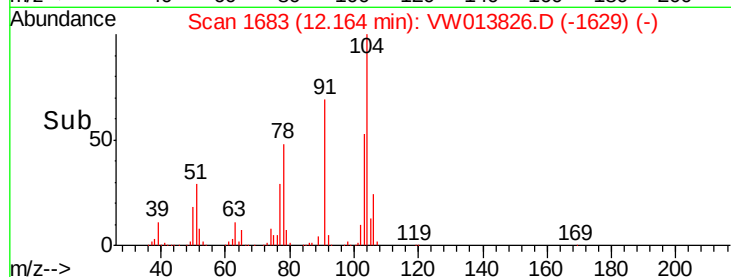
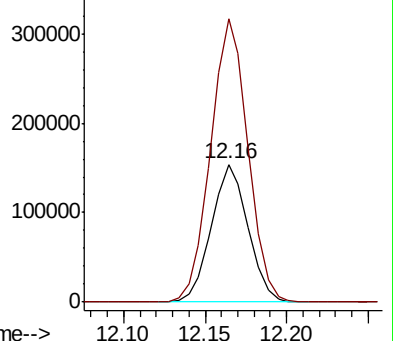
106 100

91 205.2 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.864 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW013826.D

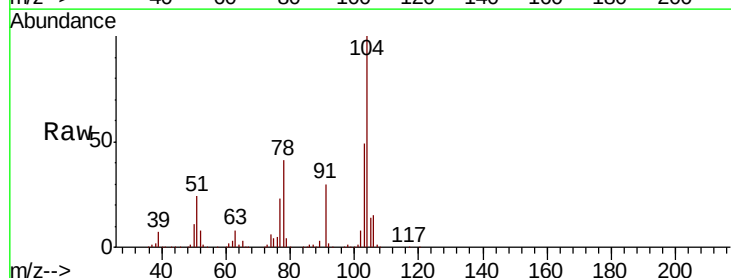
Acq: 30 Oct 2019 09:35

Tgt Ion:104 Resp: 420926

Ion Ratio Lower Upper

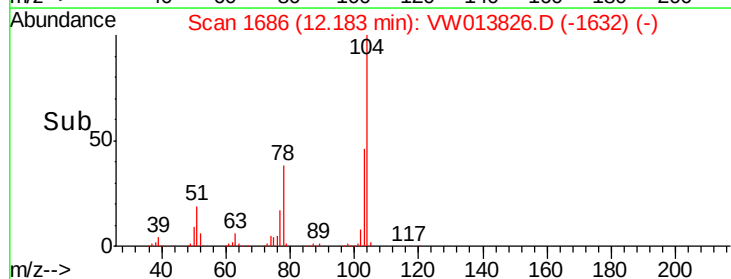
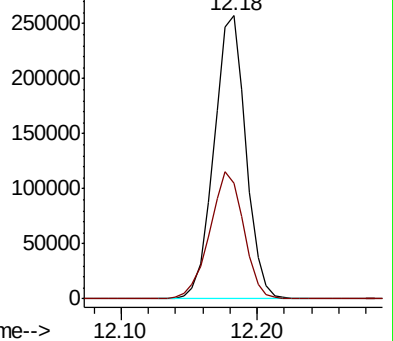
104 100

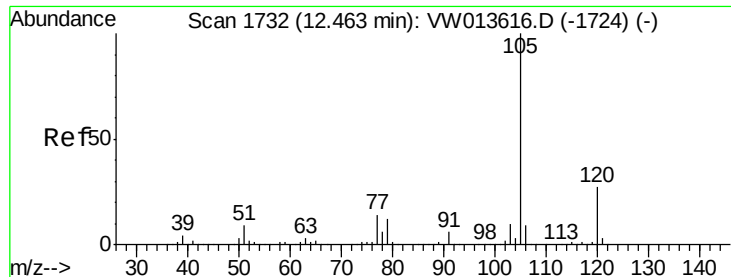
78 40.7 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.697 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampled :

VSTD02510

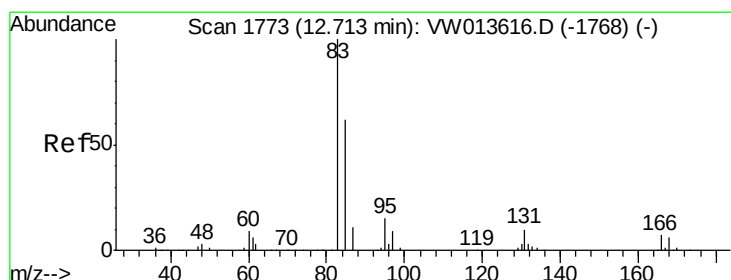
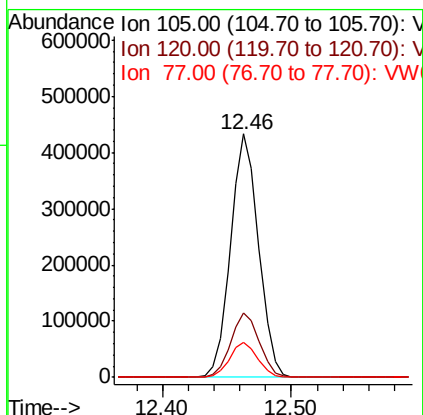
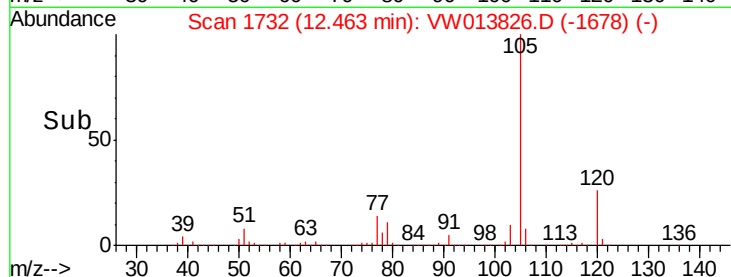
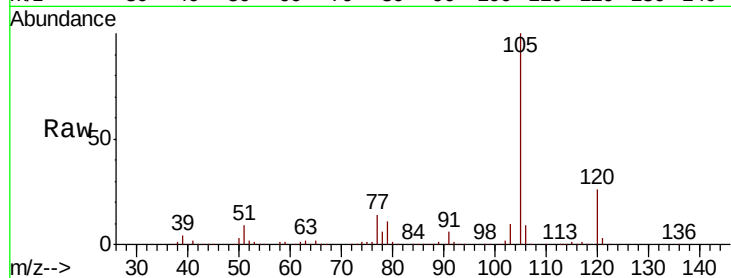
Tot Ion:105 Resp: 655906

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

77 14.4 11.4 17.0



#58

1,1,2,2-Tetrachloroethane

Concen: 28.785 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

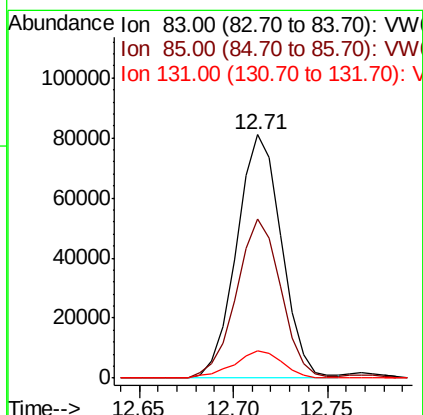
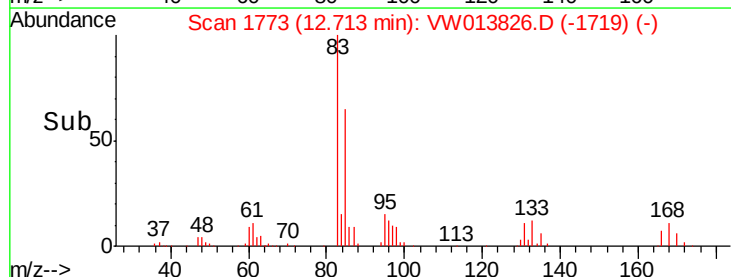
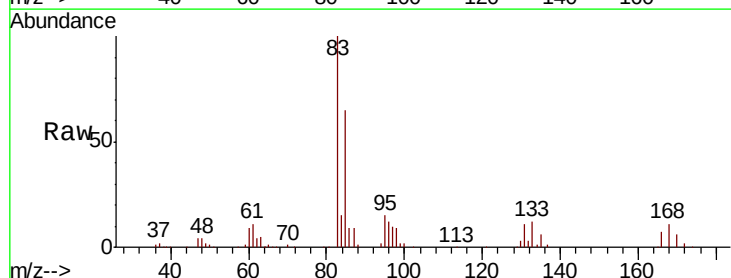
Tgt Ion: 83 Resp: 133865

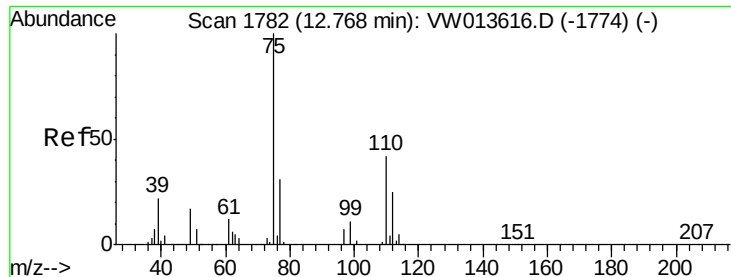
Ion Ratio Lower Upper

83 100

85 65.2 44.9 83.3

131 11.2 8.6 13.0





#59

1,2,3-Trichloropropane

Concen: 28.800 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

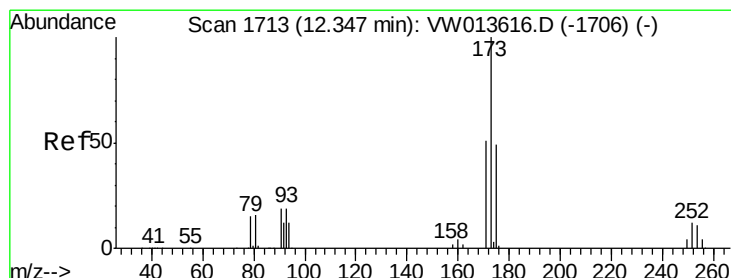
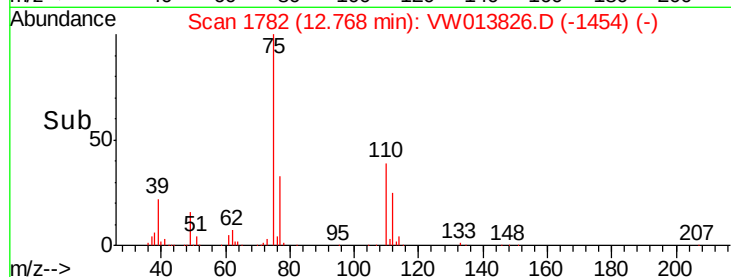
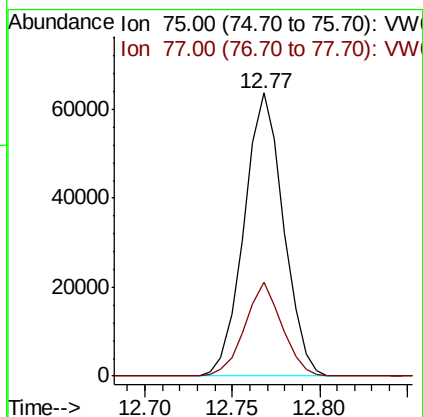
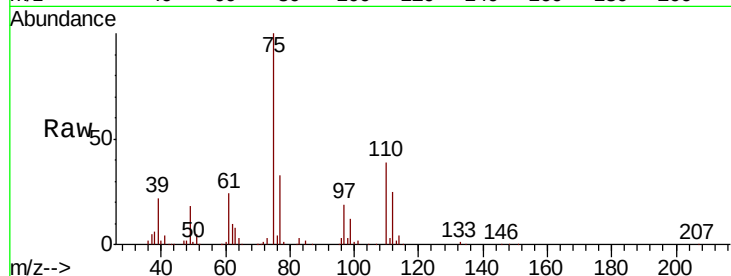
VSTD02510

Tot Ion: 75 Resp: 99876

Ion Ratio Lower Upper

75 100

77 31.3 26.4 39.6



#62

Bromoform

Concen: 25.873 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

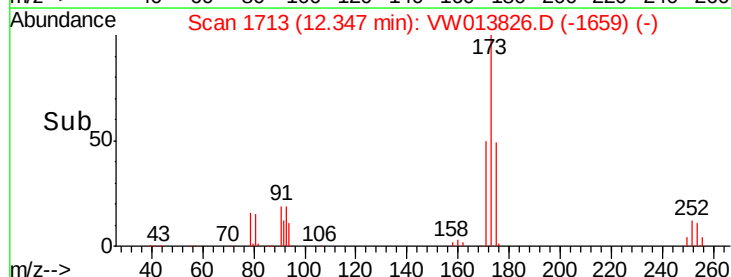
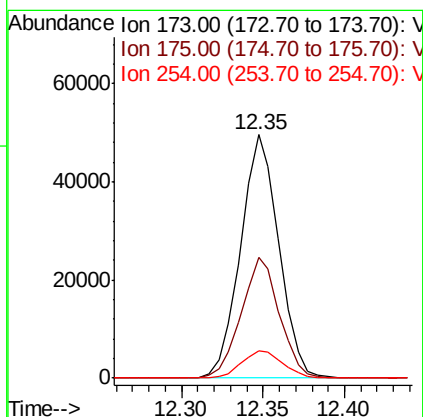
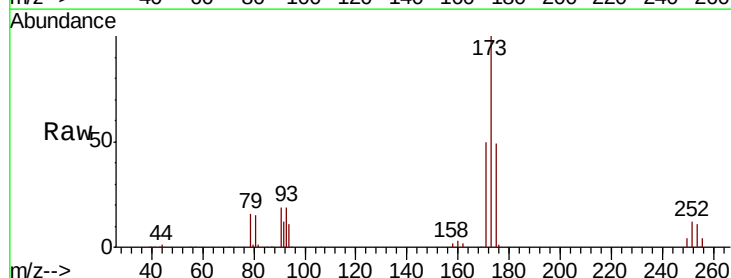
Tgt Ion: 173 Resp: 80911

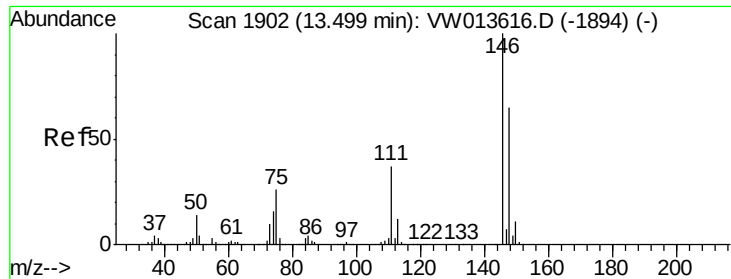
Ion Ratio Lower Upper

173 100

175 49.4 39.1 58.7

254 12.1 9.6 14.4

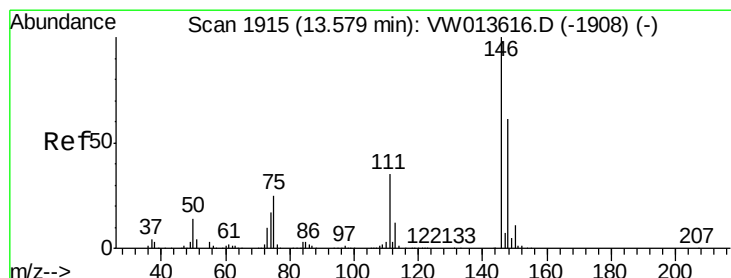
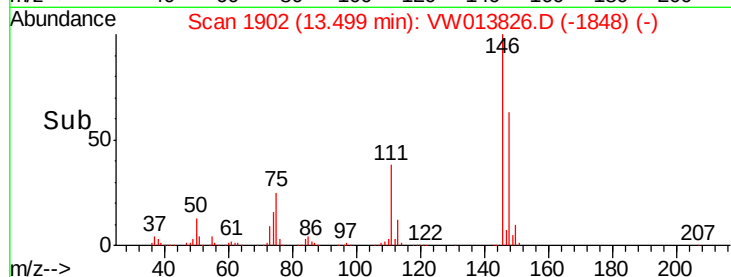
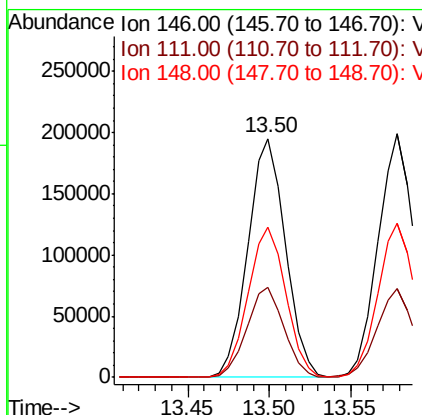
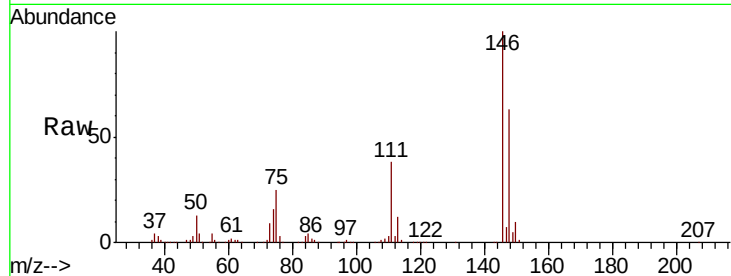




#63
 1,3-Dichlorobenzene
 Concen: 25.267 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

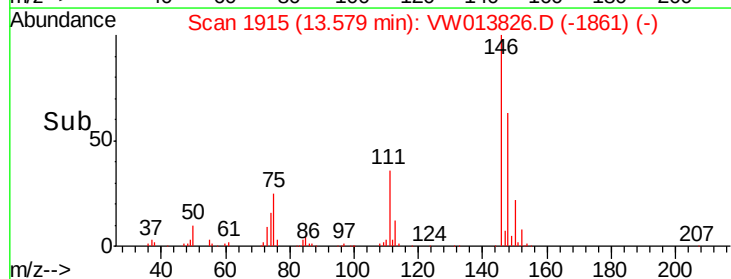
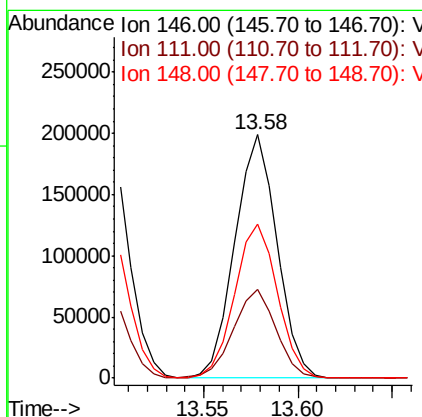
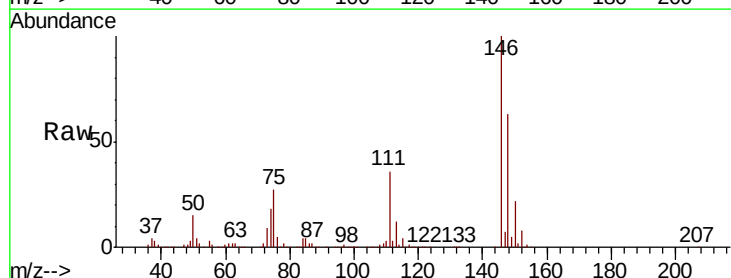
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

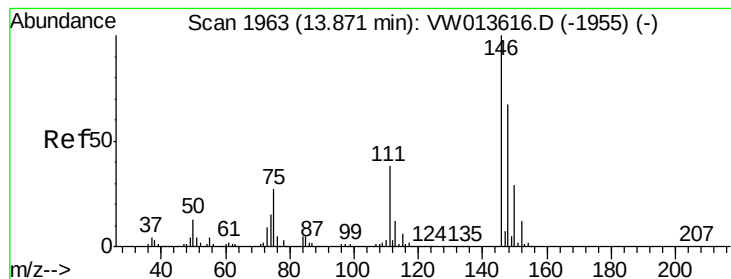
Tot Ion:146 Resp: 312850
 Ion Ratio Lower Upper
 146 100
 111 37.6 26.1 48.5
 148 63.0 45.8 85.2



#64
 1,4-Dichlorobenzene
 Concen: 24.836 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Tgt Ion:146 Resp: 309023
 Ion Ratio Lower Upper
 146 100
 111 36.2 24.8 46.0
 148 63.2 43.0 79.8





#65

1,2-Dichlorobenzene

Concen: 25.545 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

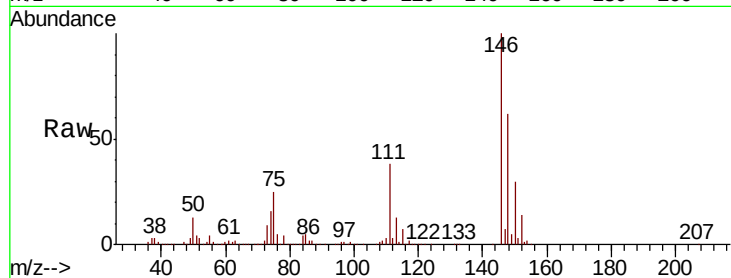
Tot Ion:146 Resp: 286585

Ion Ratio Lower Upper

146 100

111 38.1 30.7 46.1

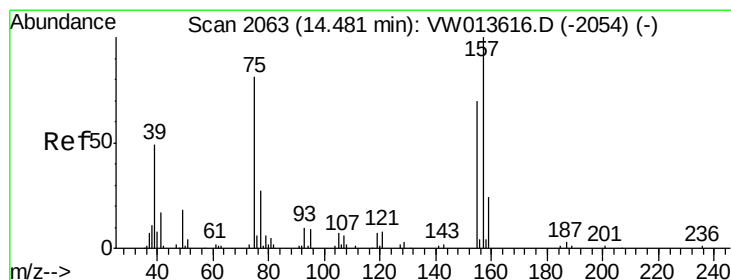
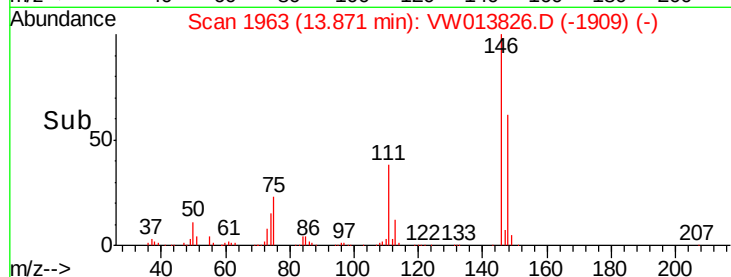
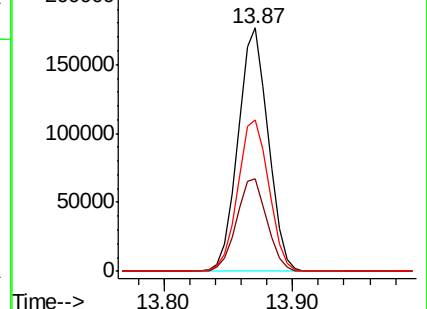
148 62.4 53.3 79.9



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: 27.738 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.01 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

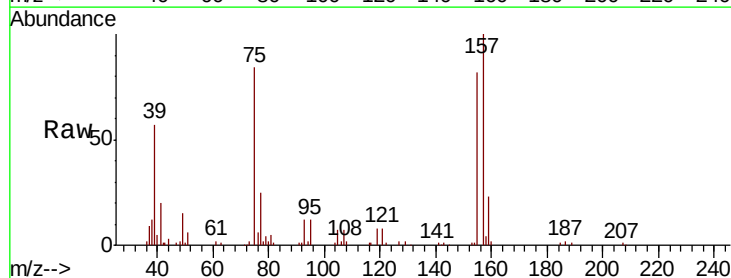
Tgt Ion: 75 Resp: 21389

Ion Ratio Lower Upper

75 100

157 119.5 99.4 149.0

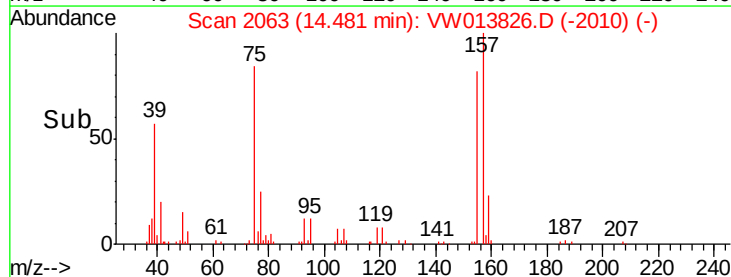
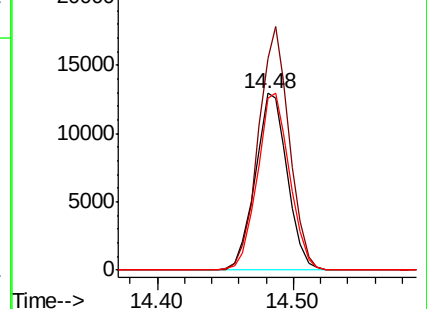
155 97.4 69.7 104.5

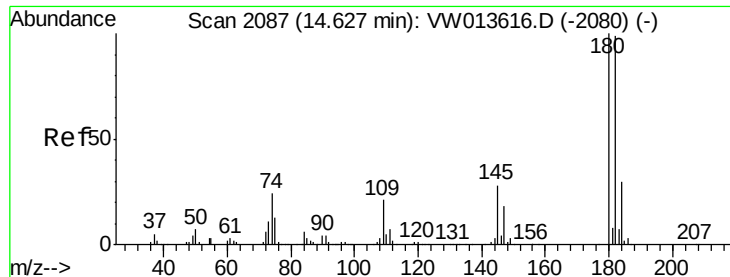


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

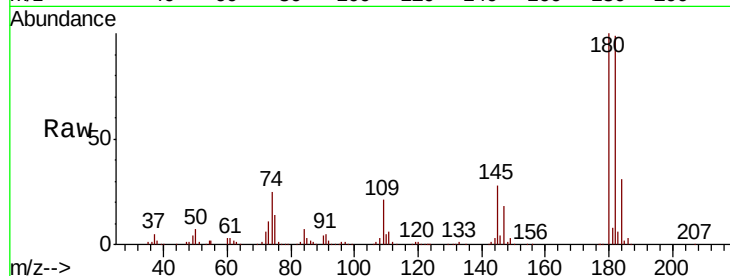




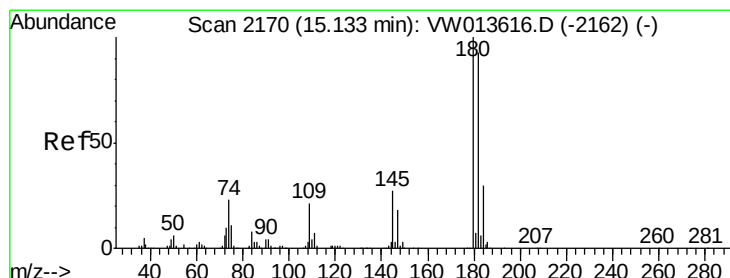
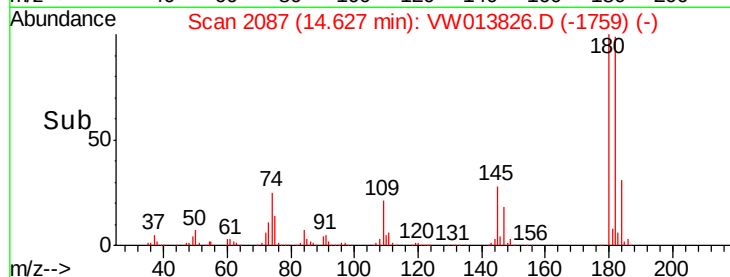
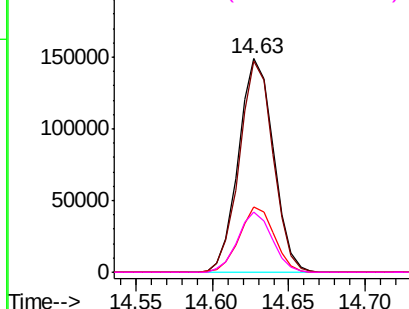
#67
 1,3,5-Trichlorobenzene
 Concen: 25.654 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tot Ion:180	Resp:	236142
Ion	Ratio	Lower Upper
180	100	
182	95.6	76.2 114.4
184	30.4	24.1 36.1
145	27.6	21.8 32.8

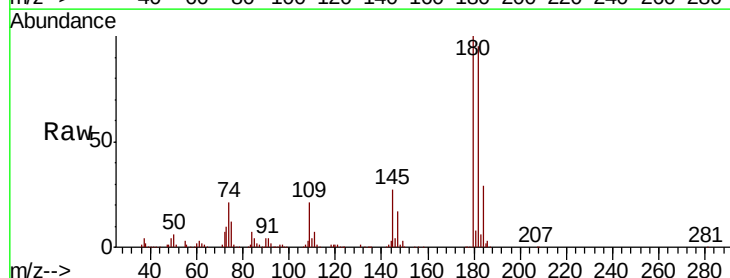


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

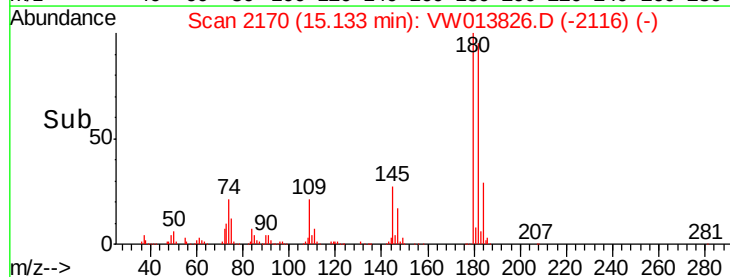
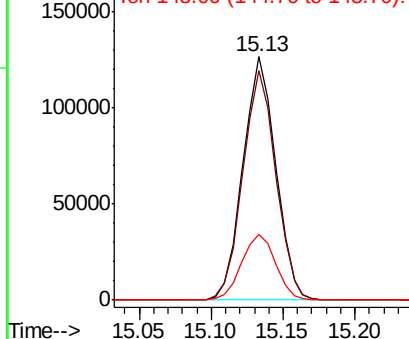


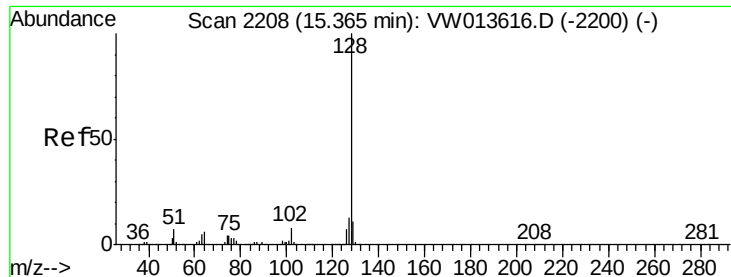
#68
 1,2,4-trichlorobenzene
 Concen: 25.545 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013826.D
 Acq: 30 Oct 2019 09:35

Tgt Ion:180	Resp:	199623
Ion	Ratio	Lower Upper
180	100	
182	95.1	75.8 113.8
145	27.9	22.6 34.0



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: 27.071 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

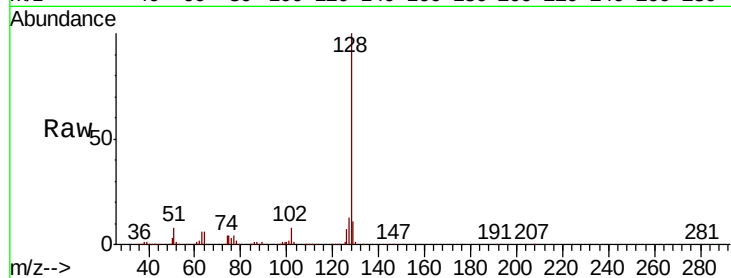
Tot Ion:128 Resp: 383329

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

127 13.3 10.5 15.7

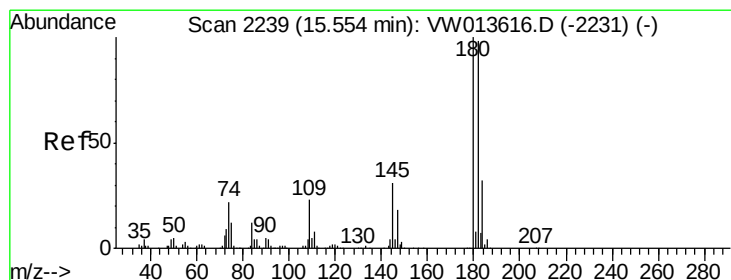
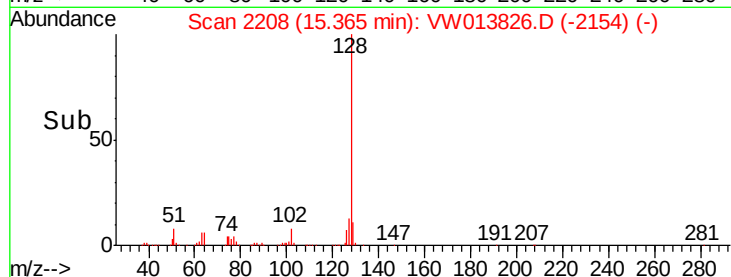
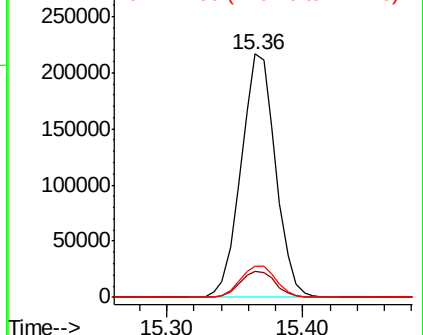


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.707 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW013826.D

Acq: 30 Oct 2019 09:35

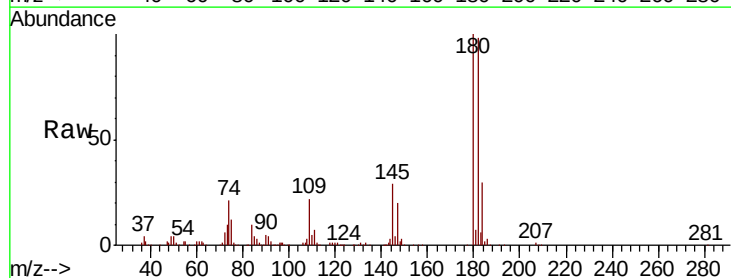
Tgt Ion:180 Resp: 179902

Ion Ratio Lower Upper

180 100

182 96.9 77.0 115.4

145 29.7 24.1 36.1



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

