

Data File : VW015363.D
Acq On : 28 Apr 2020 15:33
Operator : SY/VA
Sample : VSTD005
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB25

Quant Time: Apr 28 16:02:44 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042820S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 28 15:19:54 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	378912	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	341147	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	176344	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	15993	7.39	ug/L	0.00
7) Chloroethane-d5	2.89	69	18780	5.86	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	40805	6.18	ug/L	0.00
20) 2-Butanone-d5	7.08	46	8797	10.10	ug/L	0.00
24) Chloroform-d	7.65	84	47168	5.75	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	23754	5.56	ug/L	0.00
29) Benzene-d6	8.27	84	91343	5.87	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	24856	5.68	ug/L	0.00
37) Toluene-d8	10.32	98	92135	5.79	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	12355	5.41	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	8212	10.04	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	19688	5.31	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	35033	5.77	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	20587	6.004 ug/L	99
3) Chloromethane	2.21	50	16181	5.890 ug/L	96
5) Vinyl chloride	2.37	62	18286	6.553 ug/L	94
6) Bromomethane	2.78	94	18179	5.627 ug/L	100
8) Chloroethane	2.93	64	14696	5.587 ug/L	100
9) Trichlorofluoromethane	3.26	101	22243	5.745 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	23769	5.527 ug/L	99
12) 1,1-Dichloroethene	4.03	96	23414	5.936 ug/L	99
13) Acetone	4.12	43	8177	11.591 ug/L	97
14) Carbon disulfide	4.38	76	64614	6.281 ug/L	99
15) Methyl Acetate	4.67	43	6907	5.043 ug/L	99
16) Methylene chloride	4.92	84	28063	5.909 ug/L	97
17) Methyl tert-butyl Ether	5.43	73	34195	5.664 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	25178	5.570 ug/L	96
19) 1,1-Dichloroethane	6.21	63	39323	5.589 ug/L	99
21) 2-Butanone	7.17	43	11864	11.121 ug/L	96
22) cis-1,2-Dichloroethene	7.17	96	27367	5.652 ug/L	97
23) Bromochloromethane	7.51	128	12885	5.620 ug/L	95
25) Chloroform	7.68	83	44283	5.582 ug/L	98
27) 1,2-Dichloroethane	8.40	62	27693	5.467 ug/L	99
30) Cyclohexane	7.96	56	36260	5.774 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	40908	5.857 ug/L	99
32) Carbon tetrachloride	8.07	117	39270	5.884 ug/L	99
34) Benzene	8.32	78	96463	5.753 ug/L	100
35) Trichloroethene	9.09	95	27704	5.727 ug/L	98
36) Methylcyclohexane	9.34	83	46701	5.698 ug/L	99
40) 1,2-Dichloropropane	9.37	63	21369	5.617 ug/L	100
41) Bromodichloromethane	9.64	83	32020	5.445 ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	35940	5.340 ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	30219	11.527 ug/L	99

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Instrument :
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Quant Time: Apr 28 16:02:44 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042820S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 28 15:19:54 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	110733	5.604	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	32098	5.346	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	18137	5.474	ug/L	99
47) Tetrachloroethene	10.86	164	26259	5.685	ug/L	97
49) 2-Hexanone	10.97	43	14750	10.172	ug/L	97
50) Dibromochloromethane	11.13	129	24188	5.480	ug/L	99
51) 1,2-Dibromoethane	11.23	107	17440	5.255	ug/L	95
52) Chlorobenzene	11.66	112	73512	5.575	ug/L	98
53) Ethylbenzene	11.73	91	127875	5.638	ug/L	99
54) m,p-Xylene	11.83	106	50397	5.632	ug/L	98
55) o-xylene	12.16	106	48493	5.683	ug/L	98
56) Styrene	12.18	104	78991	5.458	ug/L	96
57) Isopropylbenzene	12.46	105	129736	5.553	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	19066	5.148	ug/L	95
59) 1,2,3-Trichloropropane	12.77	75	14146	5.184	ug/L	99
62) Bromoform	12.35	173	14542	5.175	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	61133	5.634	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	59550	5.546	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	55401	5.825	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	3357	5.250	ug/L	96
67) 1,3,5-Trichlorobenzene	14.63	180	48428	5.976	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	38517	5.704	ug/L	100
69) Naphthalene	15.36	128	61795	5.367	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	33534	5.721	ug/L	98

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

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```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
BFB25

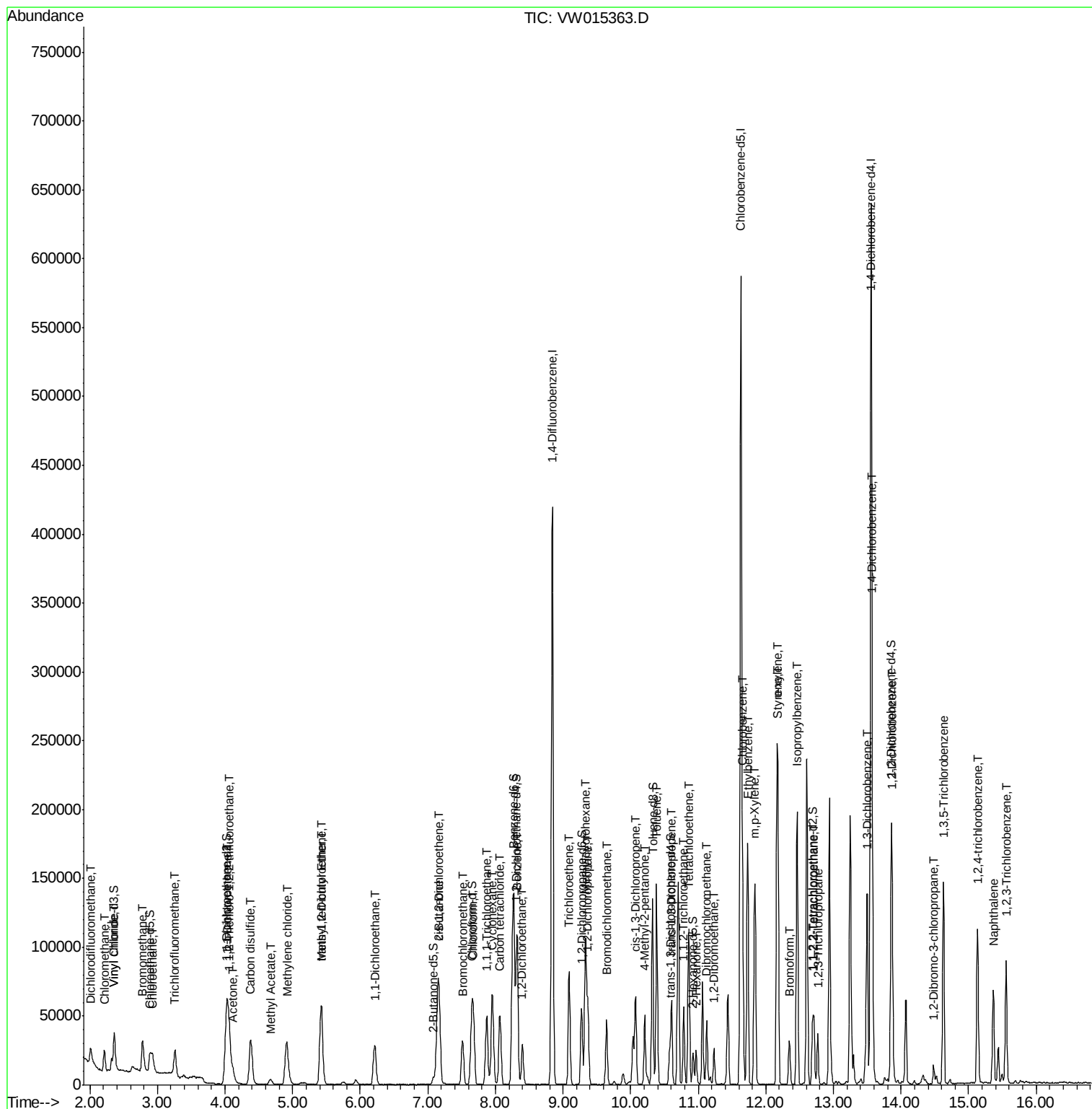
Quant Time: Apr 28 16:02:44 2020

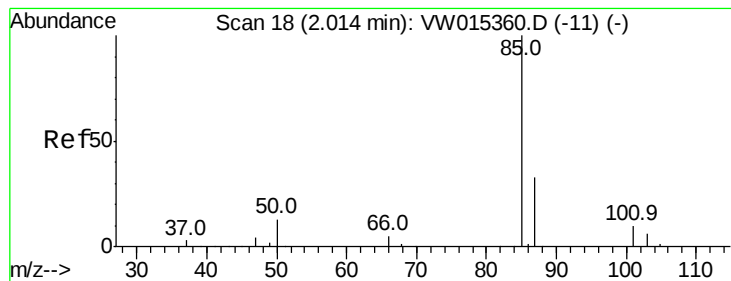
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042820S.M

Quant Title : VOC Analysis

QLast Update : Tue Apr 28 15:19:54 2020

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 6.004 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampled :

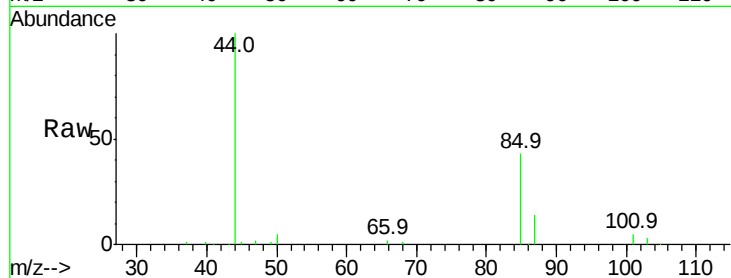
BFB25

Tgt Ion: 85 Resp: 20587

Ion Ratio Lower Upper

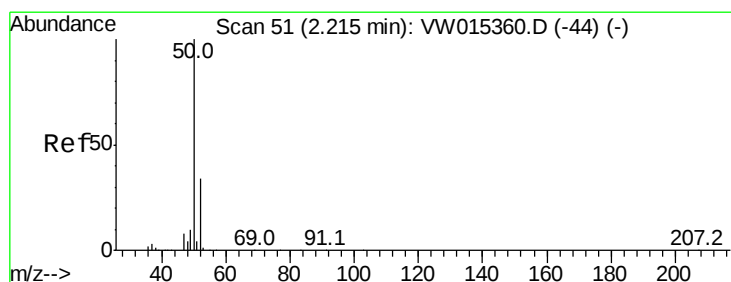
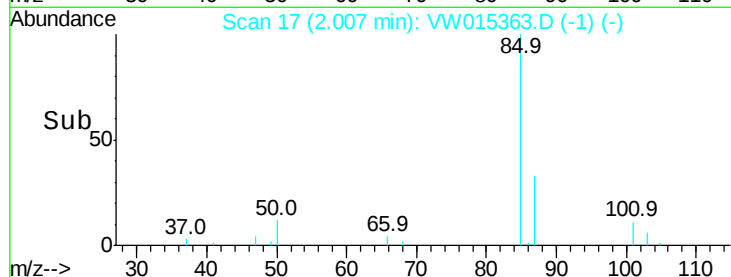
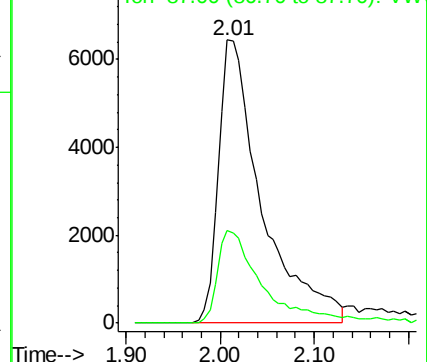
85 100

87 32.8 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 5.890 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015363.D

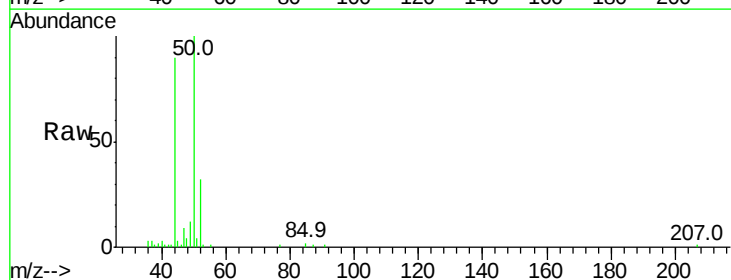
Acq: 28 Apr 2020 15:33

Tgt Ion: 50 Resp: 16181

Ion Ratio Lower Upper

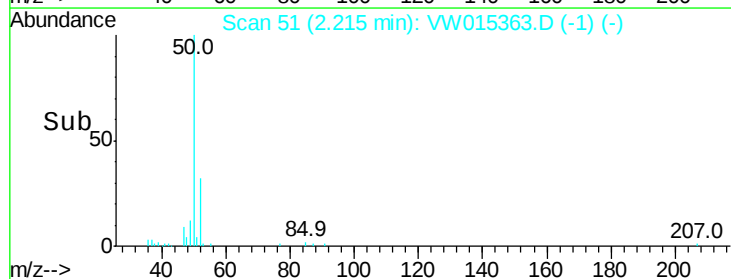
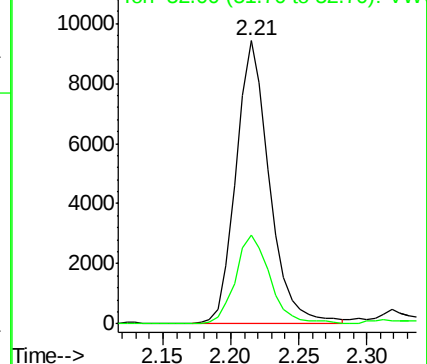
50 100

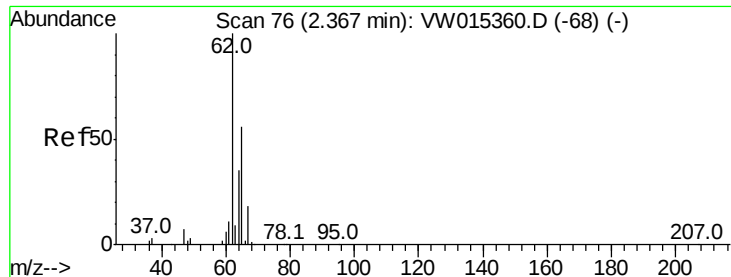
52 31.5 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 6.553 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampled :

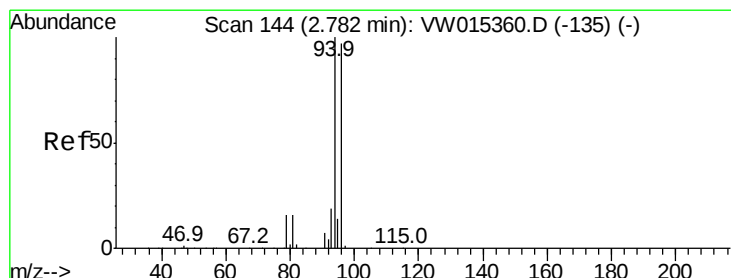
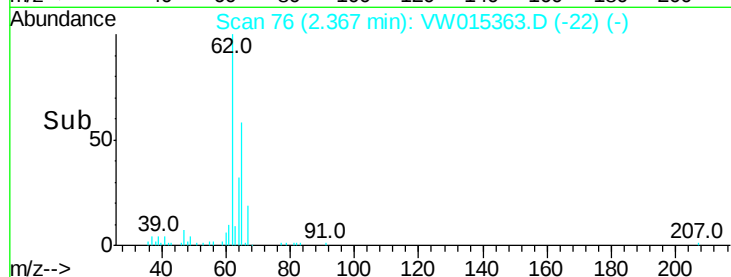
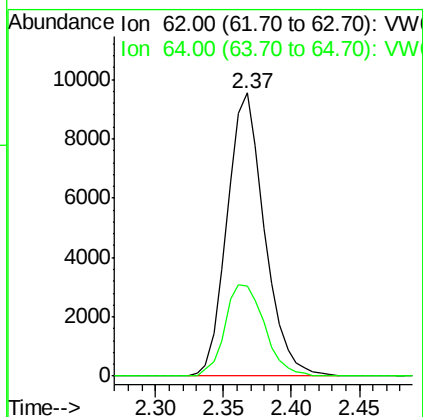
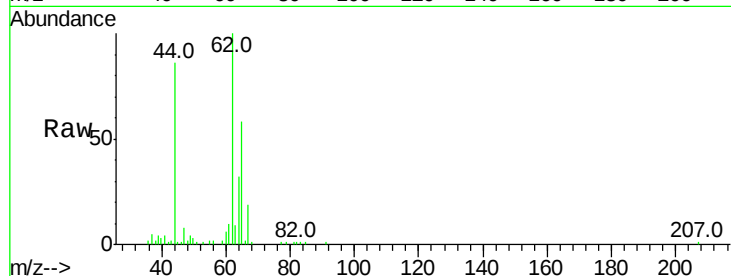
BFB25

Tgt Ion: 62 Resp: 18286

Ion Ratio Lower Upper

62 100

64 31.9 24.6 45.8



#6

Bromomethane

Concen: 5.627 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015363.D

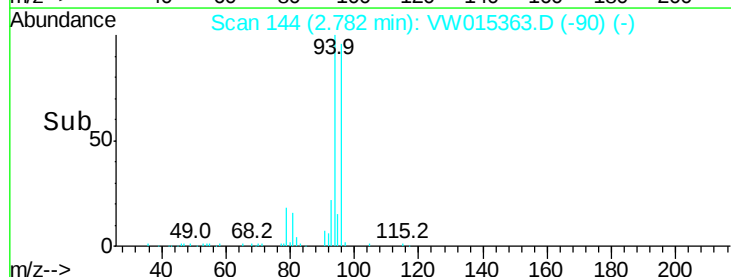
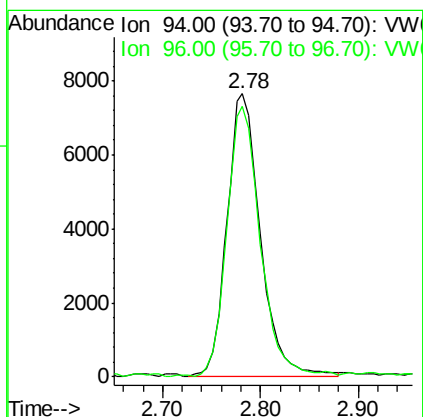
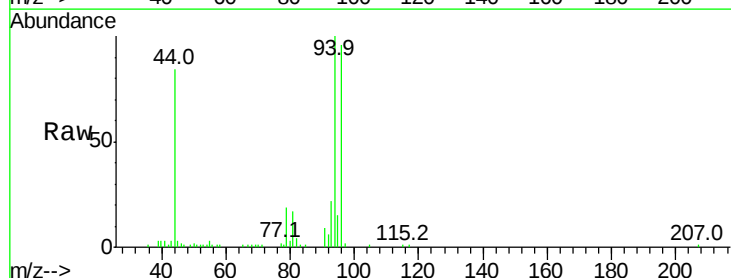
Acq: 28 Apr 2020 15:33

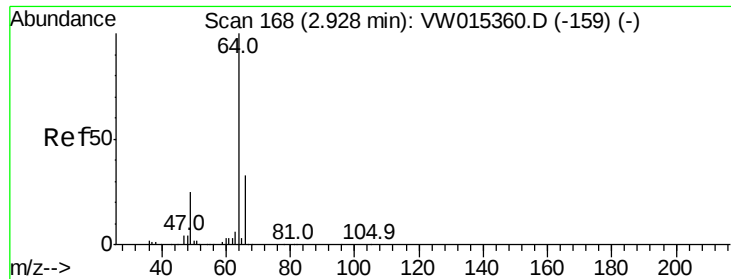
Tgt Ion: 94 Resp: 18179

Ion Ratio Lower Upper

94 100

96 94.9 9.5 180.1





#8

Chloroethane

Concen: 5.587 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampleId :

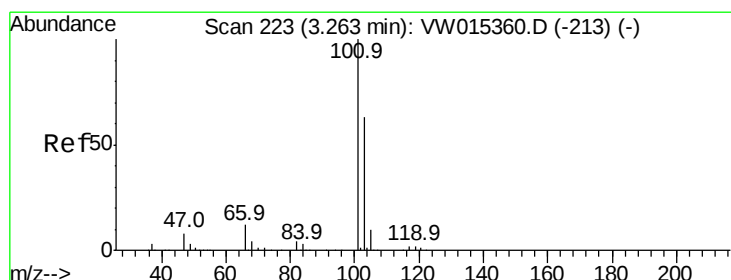
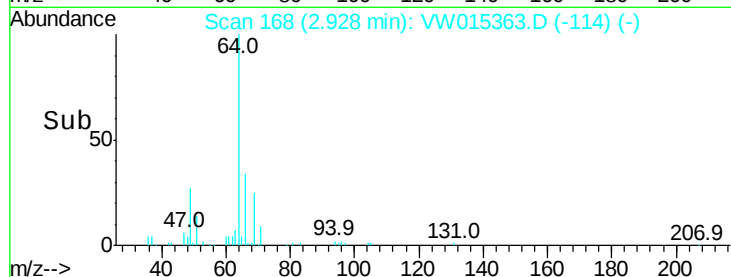
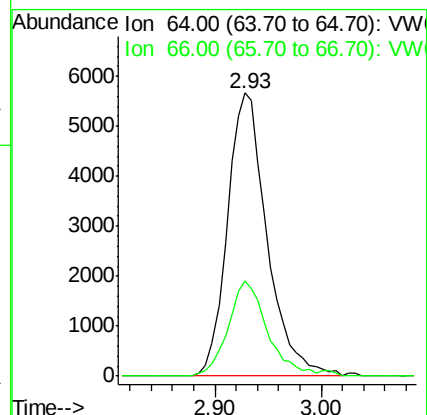
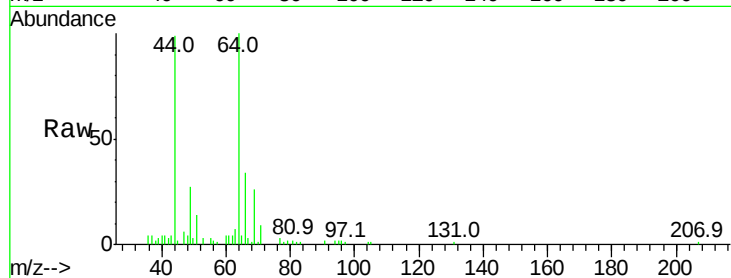
BFB25

Tgt Ion: 64 Resp: 14696

Ion Ratio Lower Upper

64 100

66 33.7 23.5 43.7



#9

Trichlorofluoromethane

Concen: 5.745 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW015363.D

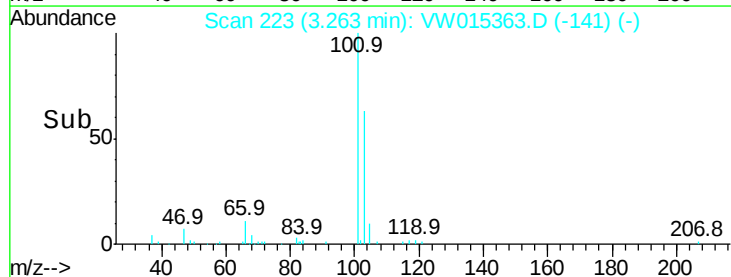
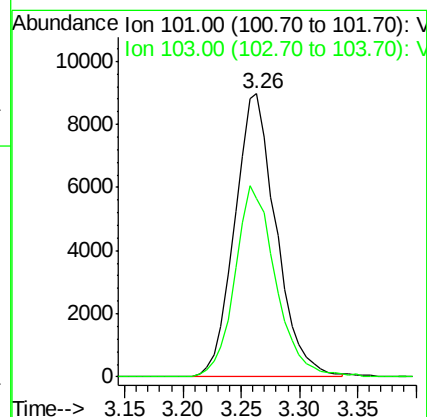
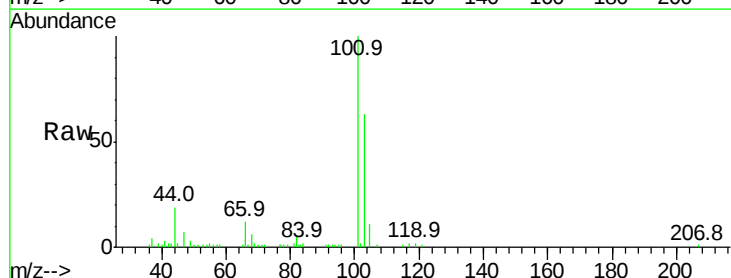
Acq: 28 Apr 2020 15:33

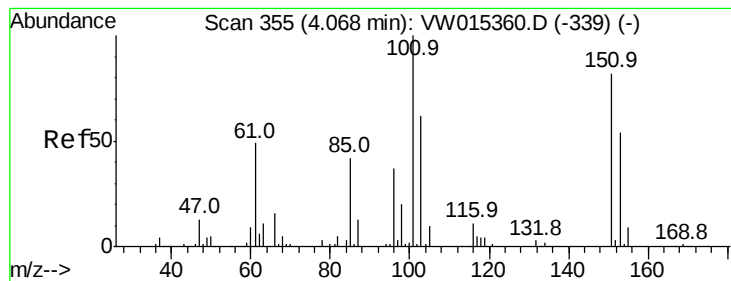
Tgt Ion: 101 Resp: 22243

Ion Ratio Lower Upper

101 100

103 66.6 45.4 84.4





#11

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

Concen: 5.527 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampled :

BFB25

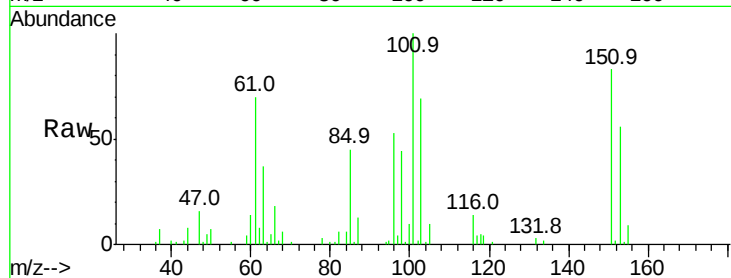
Tgt Ion:101 Resp: 23769

Ion Ratio Lower Upper

101 100

85 42.0 32.5 48.7

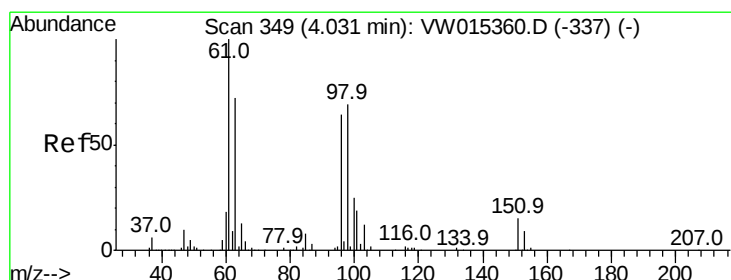
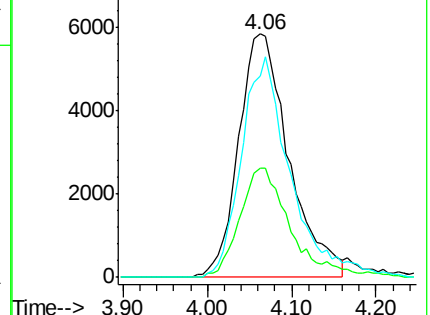
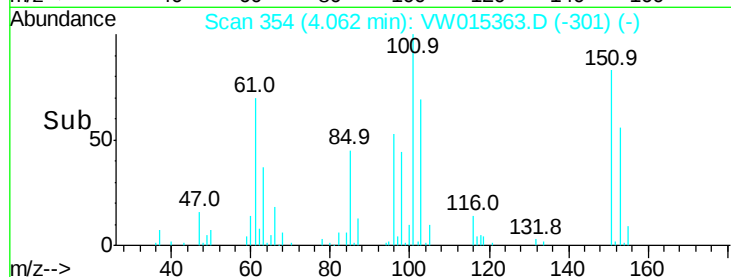
151 85.1 68.2 102.2



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: 5.936 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

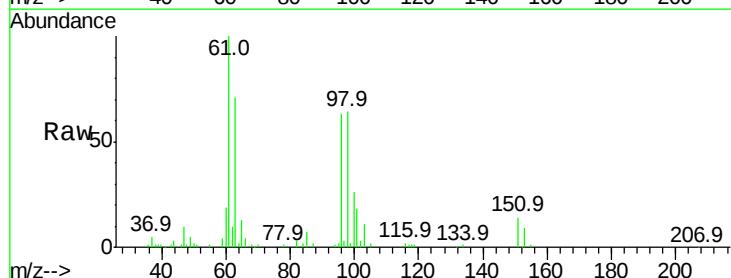
Tgt Ion: 96 Resp: 23414

Ion Ratio Lower Upper

96 100

61 157.8 109.1 202.7

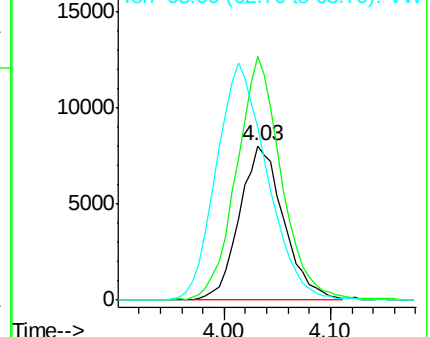
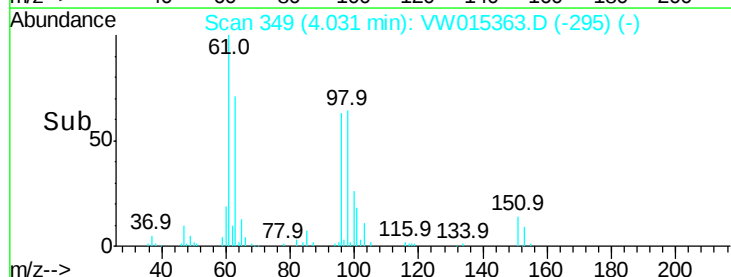
63 112.4 79.2 147.2

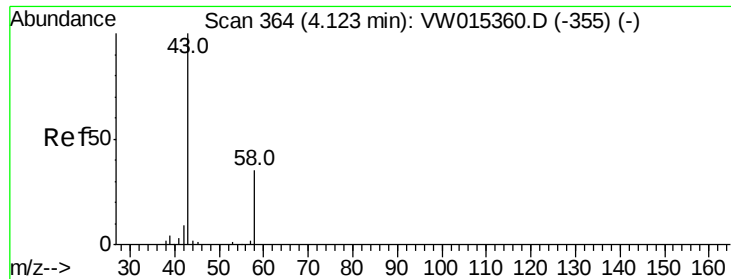


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 11.591 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampleId :

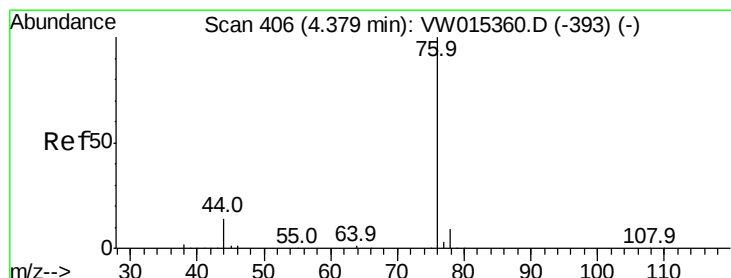
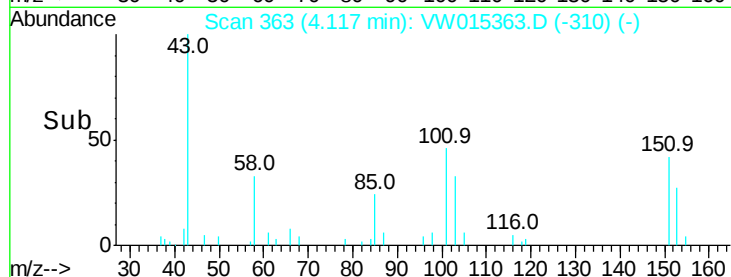
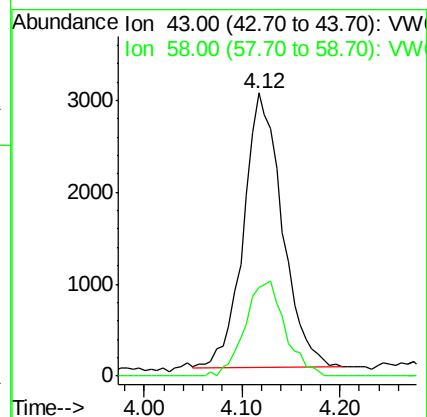
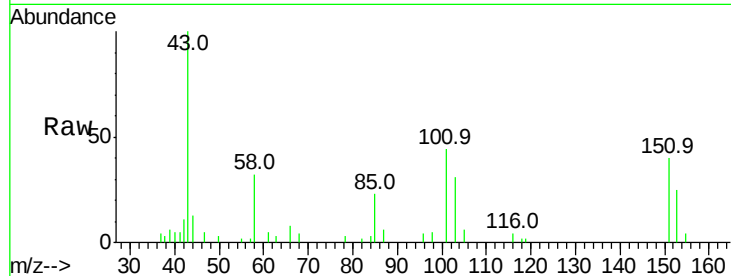
BFB25

Tgt Ion: 43 Resp: 8177

Ion Ratio Lower Upper

43 100

58 35.6 0.0 68.0



#14

Carbon disulfide

Concen: 6.281 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW015363.D

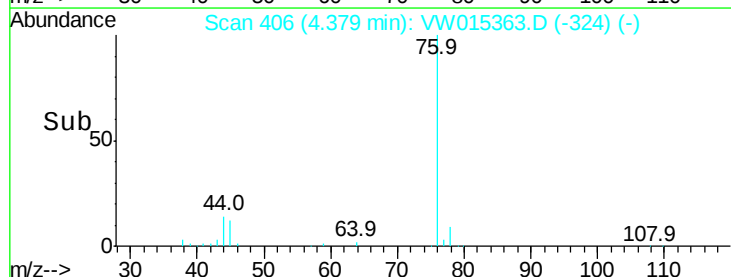
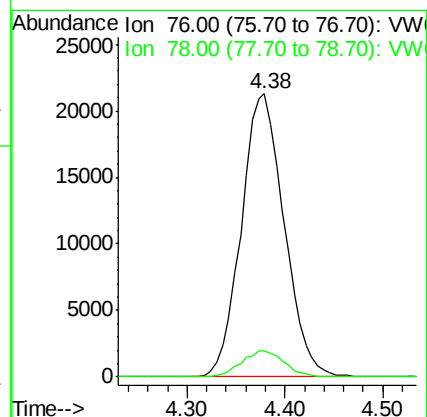
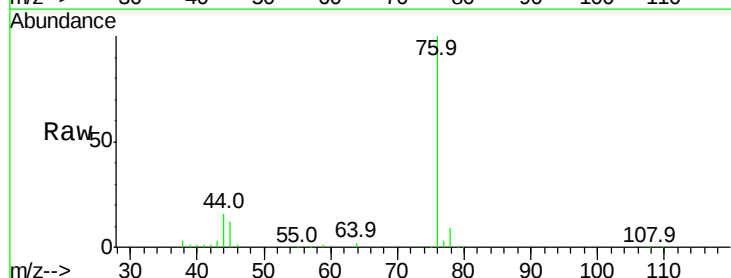
Acq: 28 Apr 2020 15:33

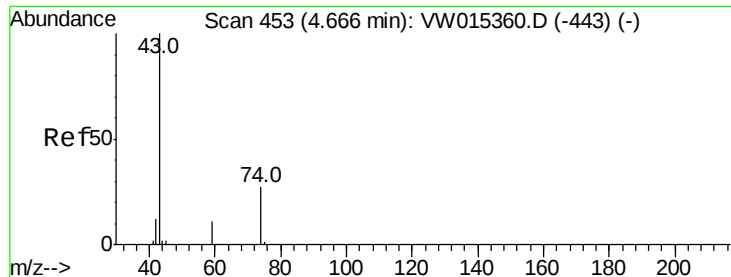
Tgt Ion: 76 Resp: 64614

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8

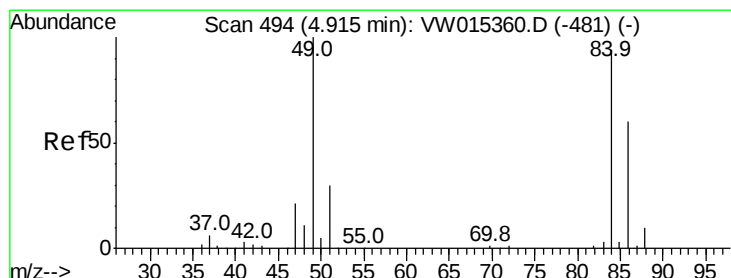
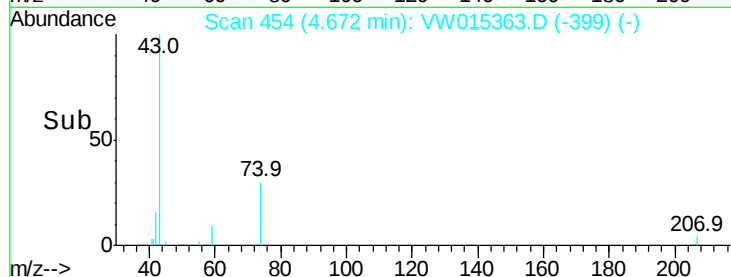
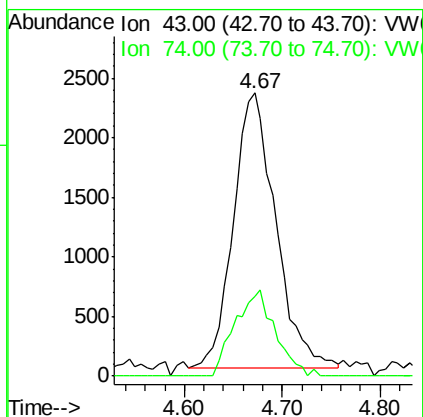
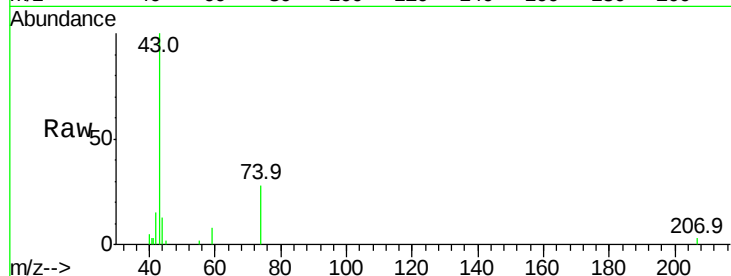




#15
Methyl Acetate
Concen: 5.043 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW015363.D
Acq: 28 Apr 2020 15:33

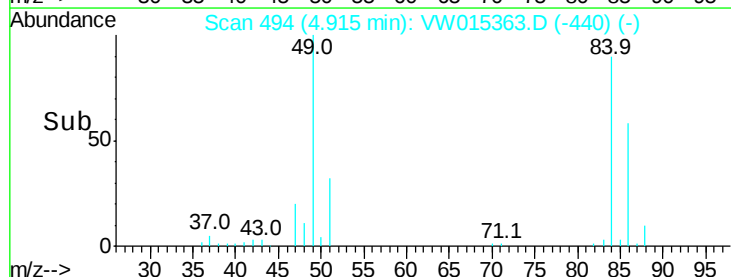
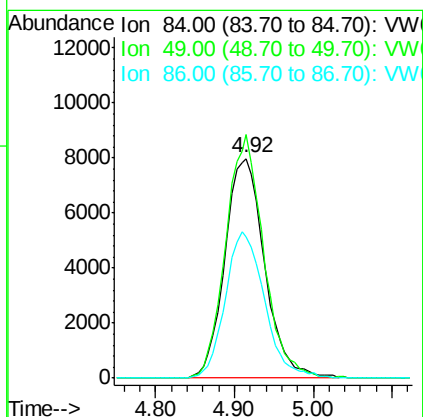
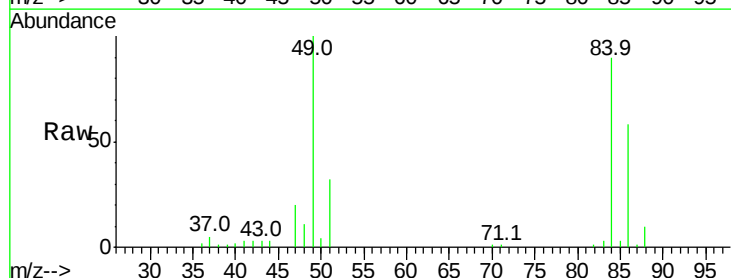
Instrument :
MSVOA_W
ClientSampled :
BFB25

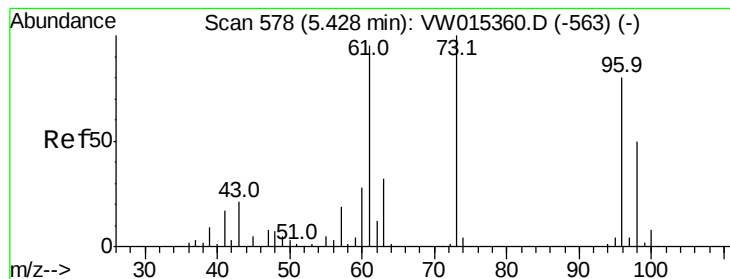
Tgt Ion: 43 Resp: 6907
Ion Ratio Lower Upper
43 100
74 29.8 23.5 35.3



#16
Methylene chloride
Concen: 5.909 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW015363.D
Acq: 28 Apr 2020 15:33

Tgt Ion: 84 Resp: 28063
Ion Ratio Lower Upper
84 100
49 111.0 74.6 138.6
86 64.2 44.6 82.8





#17

Methyl tert-butyl Ether

Concen: 5.664 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampled :

BFB25

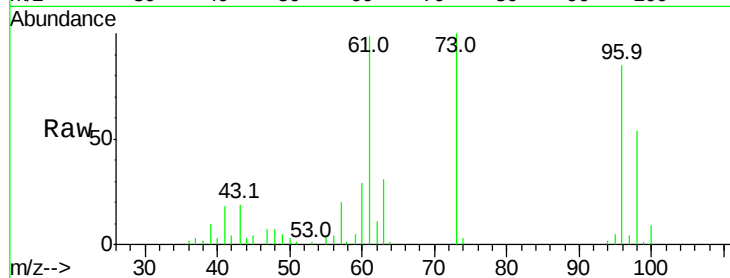
Tgt Ion: 73 Resp: 34195

Ion Ratio Lower Upper

73 100

43 21.5 16.7 25.1

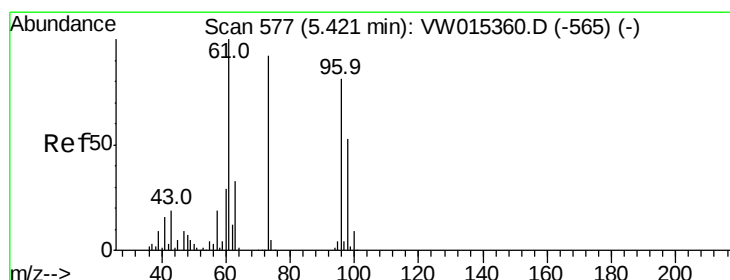
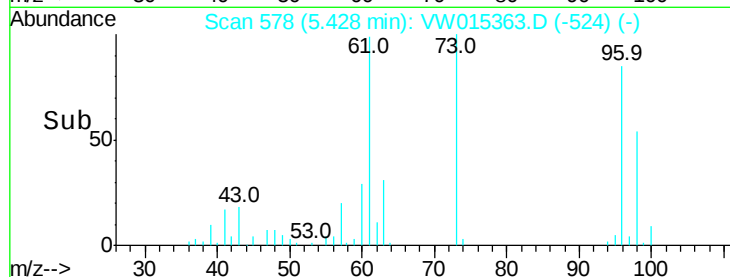
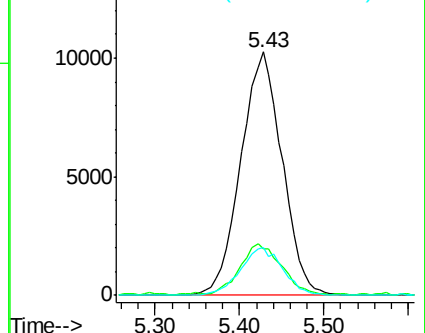
57 20.2 15.9 23.9



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: 5.570 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

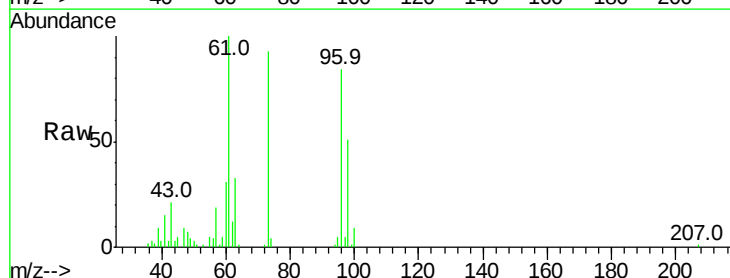
Tgt Ion: 96 Resp: 25178

Ion Ratio Lower Upper

96 100

61 119.0 86.4 160.4

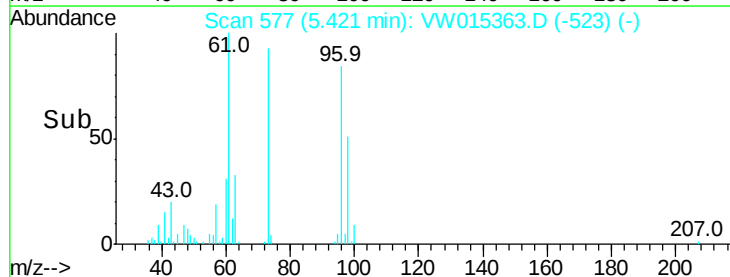
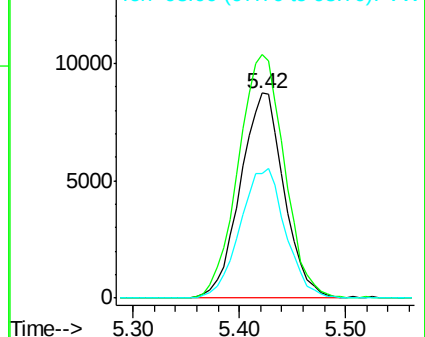
98 60.7 45.3 84.1

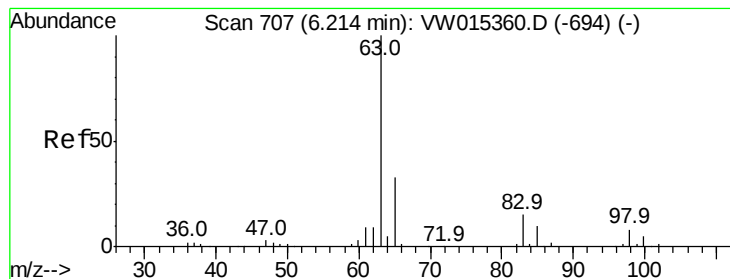


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 5.589 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampled :

BFB25

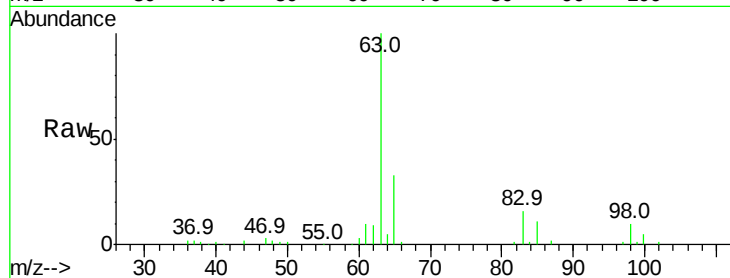
Tgt Ion: 63 Resp: 39323

Ion Ratio Lower Upper

63 100

65 32.9 23.2 43.0

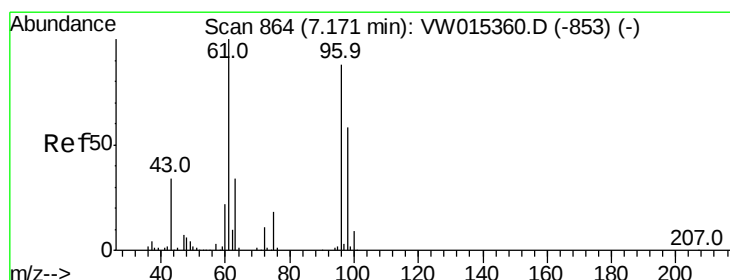
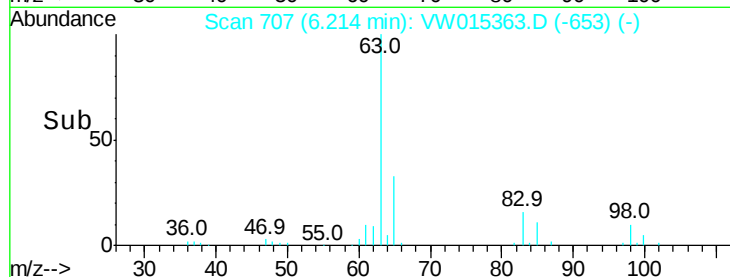
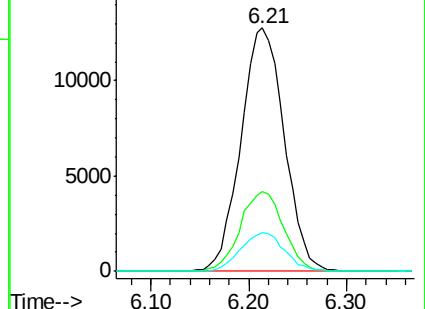
83 15.8 10.4 19.4



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: 11.121 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW015363.D

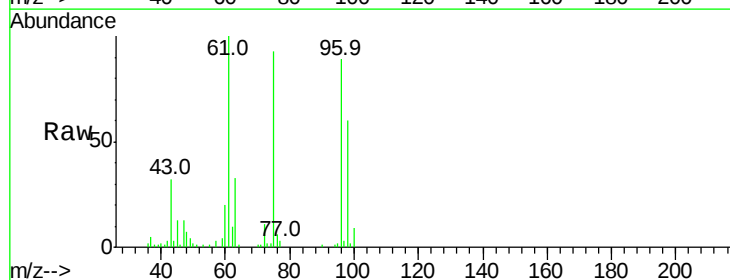
Acq: 28 Apr 2020 15:33

Tgt Ion: 43 Resp: 11864

Ion Ratio Lower Upper

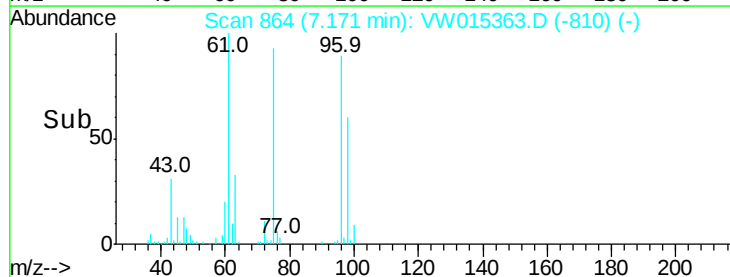
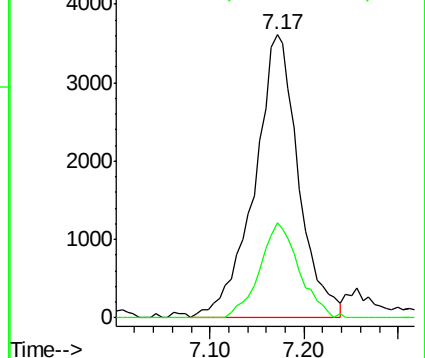
43 100

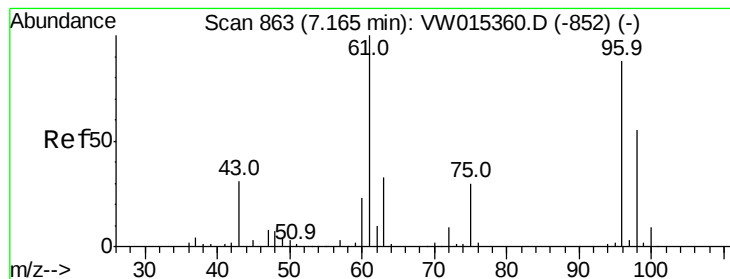
72 29.8 16.0 47.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



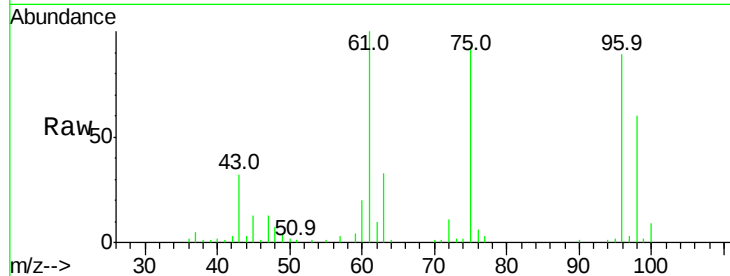


#22

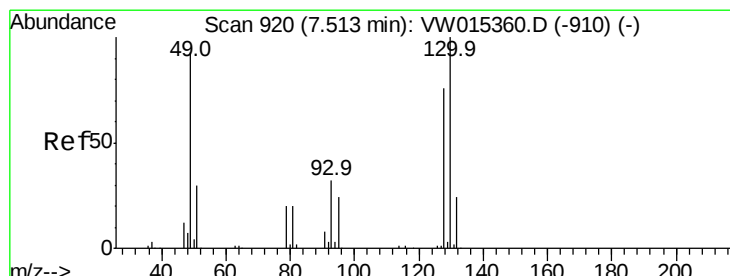
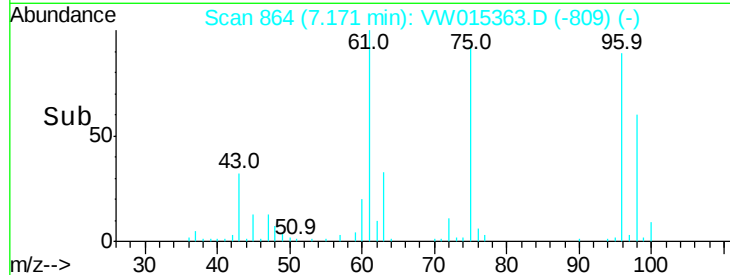
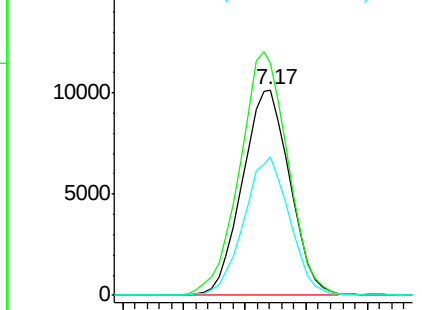
cis-1,2-Dichloroethene
 Concen: 5.652 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW015363.D
 Acq: 28 Apr 2020 15:33

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB25

Tgt Ion: 96 Resp: 27367
 Ion Ratio Lower Upper
 96 100
 61 112.6 79.3 147.3
 98 67.5 43.6 81.0



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

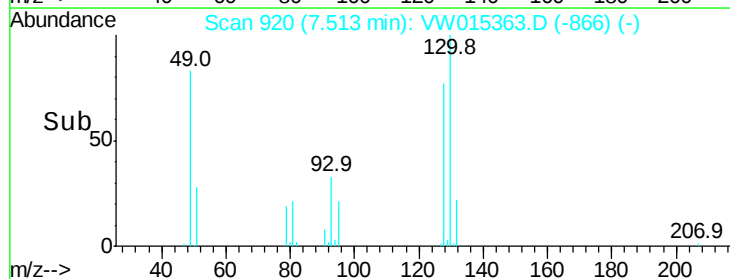
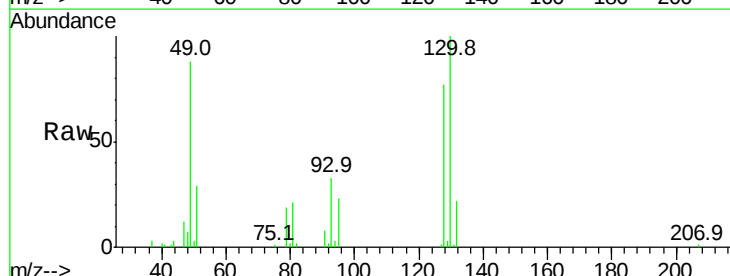
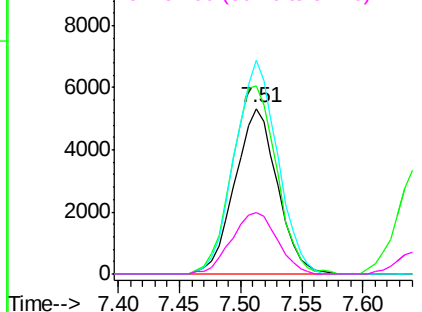


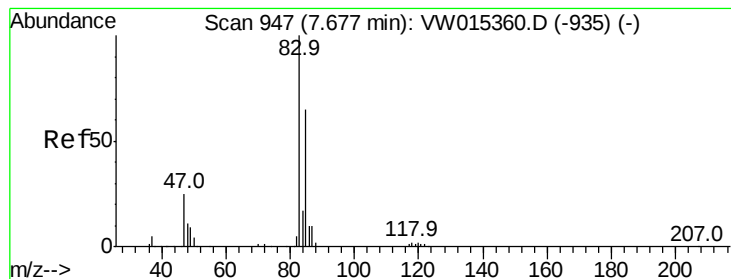
#23

Bromochloromethane
 Concen: 5.620 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW015363.D
 Acq: 28 Apr 2020 15:33

Tgt Ion: 128 Resp: 12885
 Ion Ratio Lower Upper
 128 100
 49 114.0 85.8 159.4
 130 129.2 92.2 171.2
 51 36.9 32.0 48.0

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: 5.582 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampled :

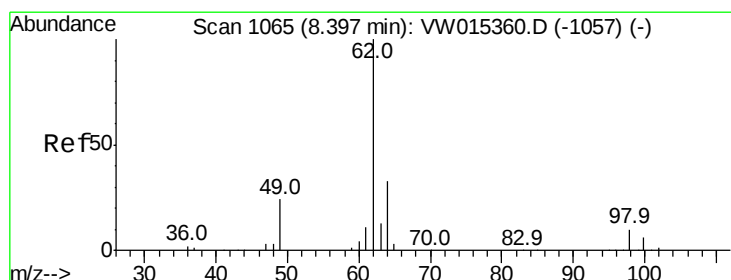
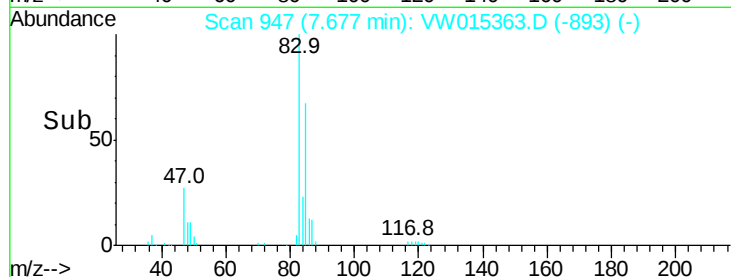
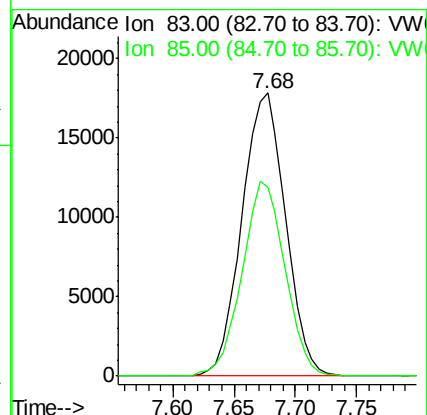
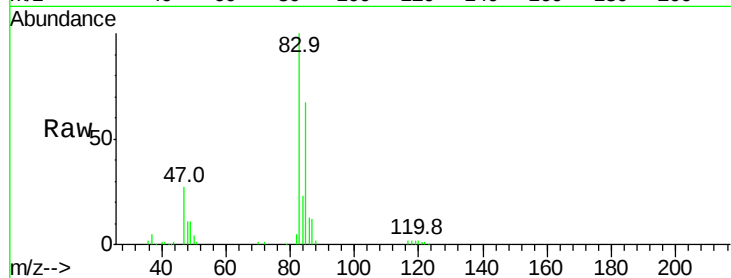
BFB25

Tgt Ion: 83 Resp: 44283

Ion Ratio Lower Upper

83 100

85 67.7 46.1 85.5



#27

1,2-Dichloroethane

Concen: 5.467 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW015363.D

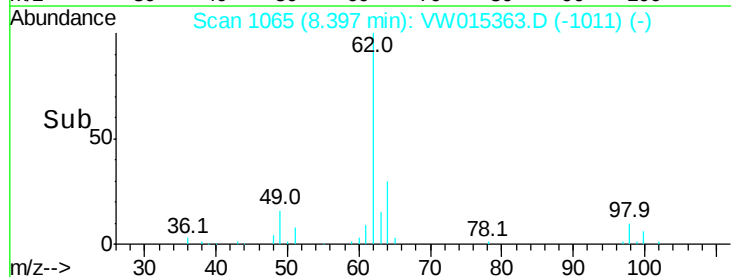
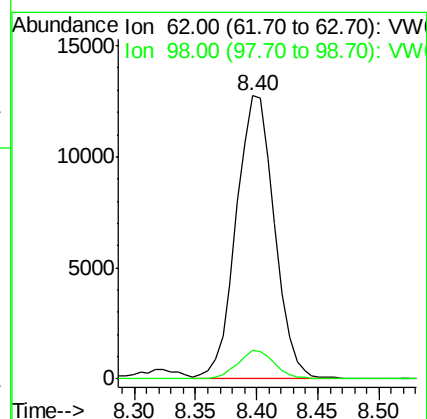
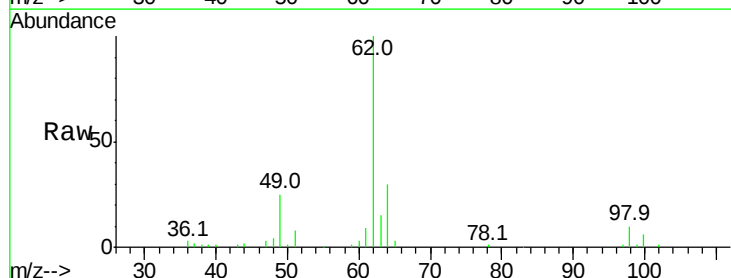
Acq: 28 Apr 2020 15:33

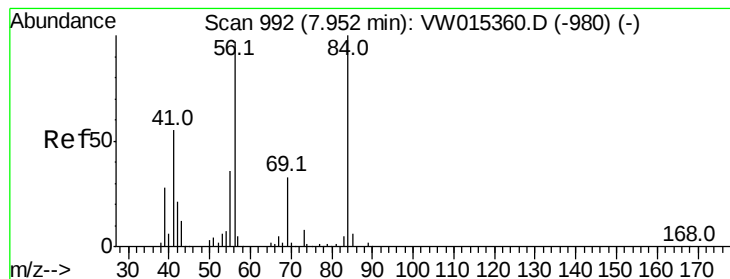
Tgt Ion: 62 Resp: 27693

Ion Ratio Lower Upper

62 100

98 10.1 7.9 11.9





#30

Cyclohexane

Concen: 5.774 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

Instrument :

MSVOA_W

ClientSampled :

BFB25

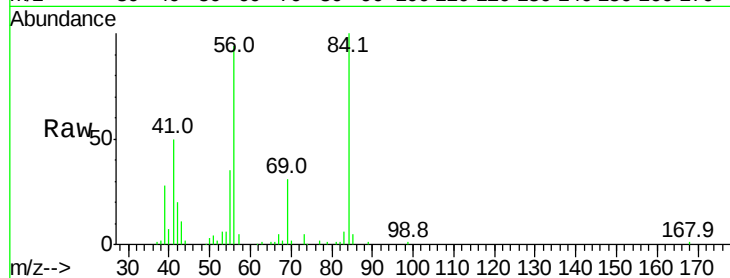
Tgt Ion: 56 Resp: 36260

Ion Ratio Lower Upper

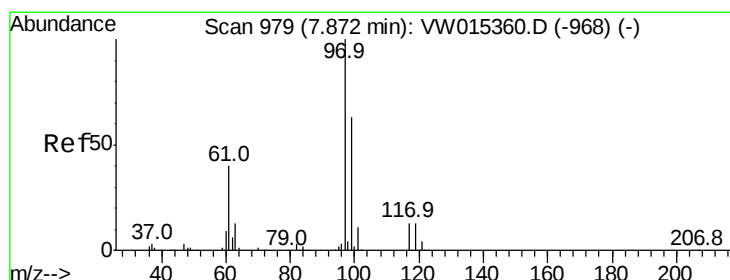
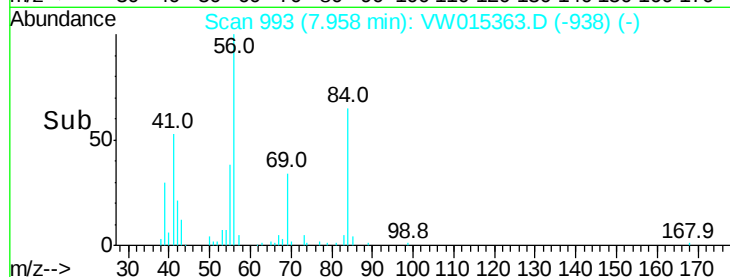
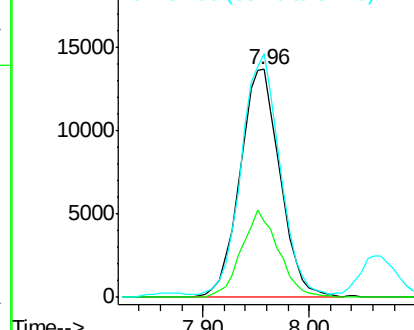
56 100

69 35.4 27.4 41.2

84 104.1 83.2 124.8



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 5.857 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW015363.D

Acq: 28 Apr 2020 15:33

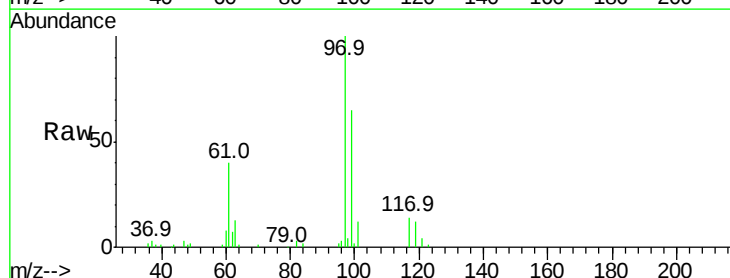
Tgt Ion: 97 Resp: 40908

Ion Ratio Lower Upper

97 100

99 64.7 51.4 77.2

61 40.7 32.8 49.2



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

