

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122719\
 Data File : VW014481.D
 Acq On : 27 Dec 2019 22:05
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 28 03:23:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 27 20:56:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1177137	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1064762	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	513199	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	403777	24.33	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.32%
7) Chloroethane-d5	2.89	69	321406	26.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.16%
10) 1,1-Dichloroethene-d2	4.02	63	758149	24.98	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	99.92%
20) 2-Butanone-d5	7.07	46	212731	53.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.74%
24) Chloroform-d	7.64	84	751484	27.75	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	111.00%
26) 1,2-Dichloroethane-d4	8.30	65	386396	27.49	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	109.96%
29) Benzene-d6	8.27	84	1585035	27.99	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	111.96%
33) 1,2-Dichloropropane-d6	9.27	67	478904	28.13	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	112.52%
37) Toluene-d8	10.32	98	1441757	28.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.36%
38) trans-1,3-Dichloropropene-	10.57	79	197271	28.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	112.20%
39) 2-Hexanone-d5	10.92	63	169058	58.08	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	116.16%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	355034	27.77	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	111.08%
61) 1,2-Dichlorobenzene-d4	13.85	152	481855	28.50	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	114.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	240484	22.837	ug/L	98
3) Chloromethane	2.21	50	250278	21.023	ug/L	99
5) Vinyl chloride	2.36	62	398500	23.525	ug/L	98
6) Bromomethane	2.78	94	238182	24.080	ug/L	100
8) Chloroethane	2.92	64	232225	24.516	ug/L	99
9) Trichlorofluoromethane	3.25	101	192008	21.430	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	356393	23.171	ug/L	98
13) Acetone	4.12	43	182210	33.329	ug/L	97
14) Carbon disulfide	4.39	76	1118931	24.062	ug/L	98
15) Methyl Acetate	4.67	43	177844	24.107	ug/L	100
16) Methylene chloride	4.92	84	413898	21.563	ug/L	98
17) Methyl tert-butyl Ether	5.42	73	494209	25.492	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	387979	24.453	ug/L	98
19) 1,1-Dichloroethane	6.21	63	718091	25.037	ug/L	100
21) 2-Butanone	7.17	43	254065	43.314	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	420147	25.157	ug/L	99
23) Bromochloromethane	7.51	128	180603	24.980	ug/L	96

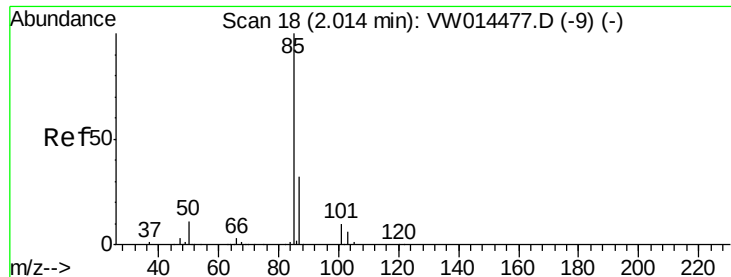
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122719\
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 Quant Title : VOC Analysis
 QLast Update : Fri Dec 27 20:56:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	684890	24.966	ug/L	100
27) 1,2-Dichloroethane	8.40	62	439010	24.652	ug/L	99
30) Cyclohexane	7.95	56	657603	24.144	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	526355	24.099	ug/L	100
32) Carbon tetrachloride	8.07	117	487829	23.972	ug/L	99
34) Benzene	8.32	78	1620755	25.294	ug/L	100
35) Trichloroethene	9.09	95	401042	24.251	ug/L	99
36) Methylcyclohexane	9.33	83	672880	23.193	ug/L	99
40) 1,2-Dichloropropane	9.37	63	406653	25.074	ug/L	99
41) Bromodichloromethane	9.64	83	487235	24.976	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	615638	25.412	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	504721	48.479	ug/L	99
44) Toluene	10.38	91	1692358	25.274	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	486564	25.118	ug/L	97
46) 1,1,2-Trichloroethane	10.78	97	283236	24.656	ug/L	99
47) Tetrachloroethene	10.86	164	329089	23.700	ug/L	98
49) 2-Hexanone	10.96	43	343450	48.309	ug/L	99
50) Dibromochloromethane	11.13	129	323895	24.832	ug/L	95
51) 1,2-Dibromoethane	11.23	107	264113	24.357	ug/L #	93
52) Chlorobenzene	11.65	112	1045949	24.710	ug/L	99
53) Ethylbenzene	11.73	91	1838523	24.972	ug/L	99
54) m,p-Xylene	11.84	106	701254	25.170	ug/L	99
55) o-xylene	12.16	106	670615	25.483	ug/L	100
56) Styrene	12.18	104	1153401	26.040	ug/L	99
57) Isopropylbenzene	12.46	105	1762719	25.181	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	336535	24.129	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	251153	24.038	ug/L	99
62) Bromoform	12.35	173	187969	24.511	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	797438	24.543	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	797603	24.346	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	723370	24.835	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.48	75	52089	24.150	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	580514	24.119	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	455117	25.225	ug/L	99
69) Naphthalene	15.36	128	843710	27.087	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	416236	25.458	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 22.837 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

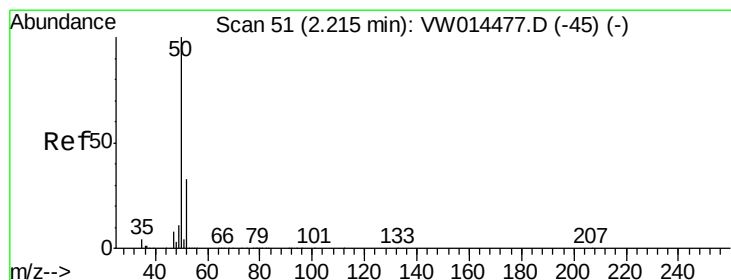
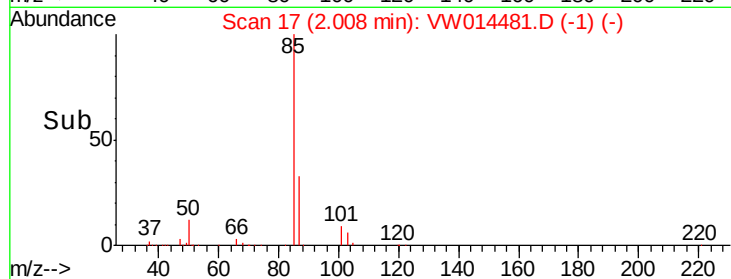
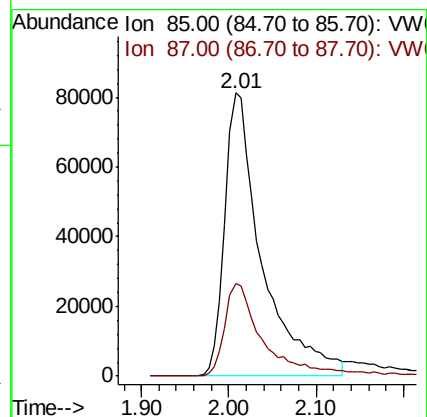
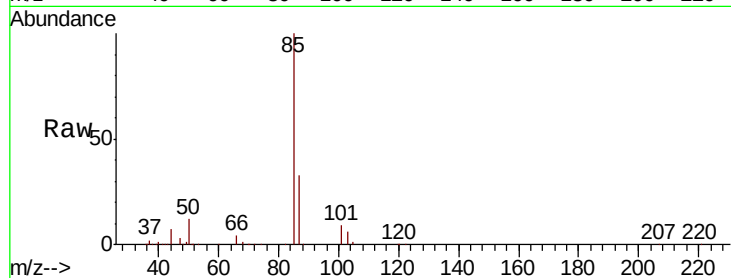
ClientSampleId :

Tot Ion: 85 Resp: 240484

Ion Ratio Lower Upper

85 100

87 31.8 21.5 39.9



#3

Chloromethane

Concen: 21.023 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014481.D

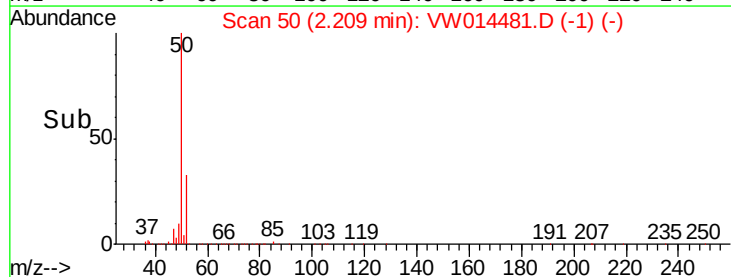
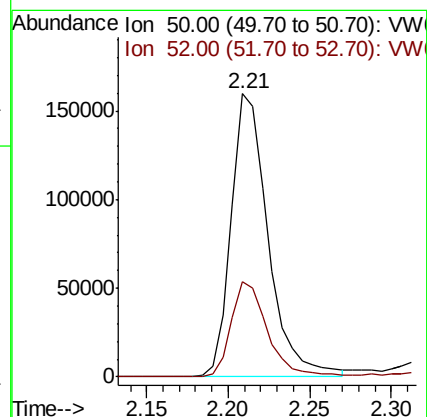
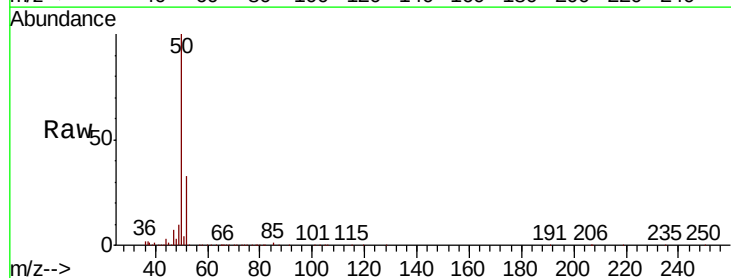
Acq: 27 Dec 2019 22:05

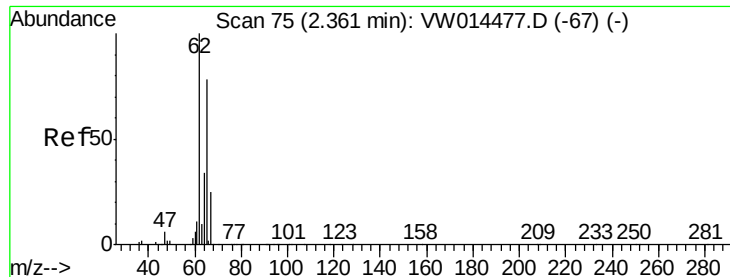
Tgt Ion: 50 Resp: 250278

Ion Ratio Lower Upper

50 100

52 33.5 23.0 42.8





#5

Vinyl chloride

Concen: 23.525 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

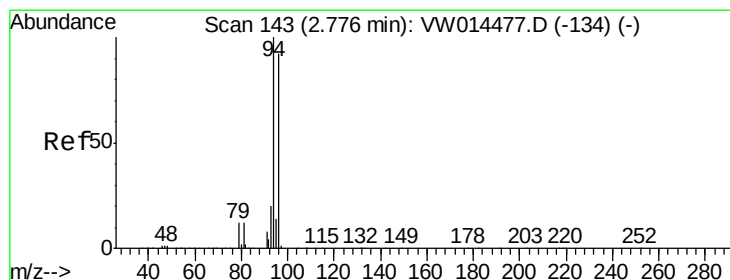
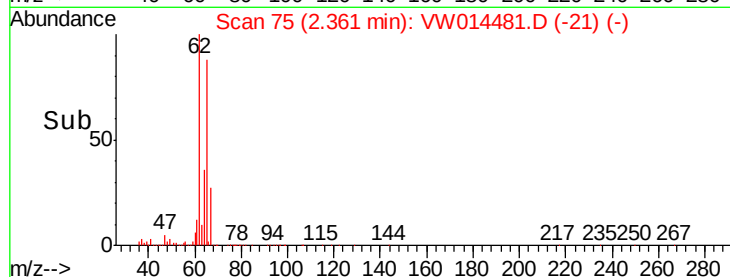
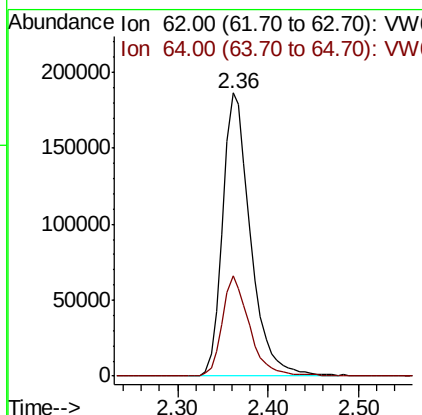
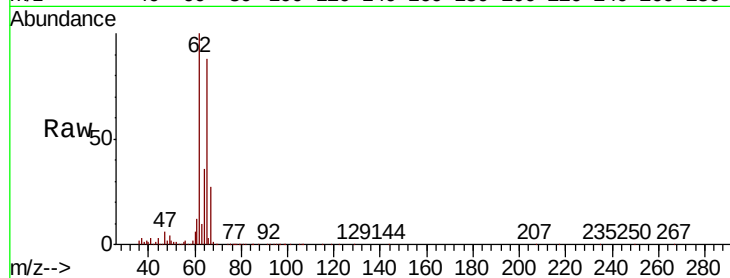
ClientSampleId :

Tot Ion: 62 Resp: 398500

Ion Ratio Lower Upper

62 100

64 35.6 24.1 44.8



#6

Bromomethane

Concen: 24.080 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014481.D

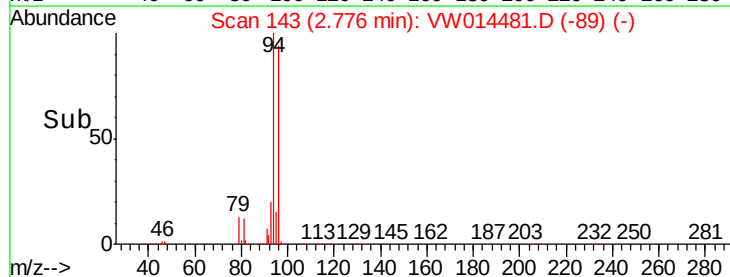
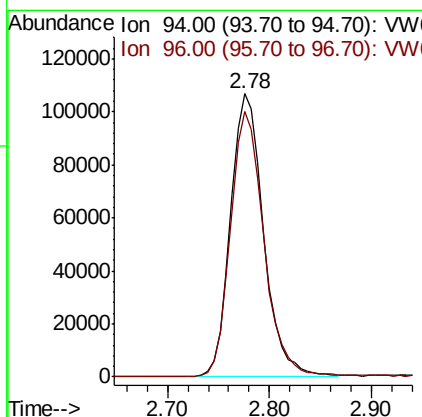
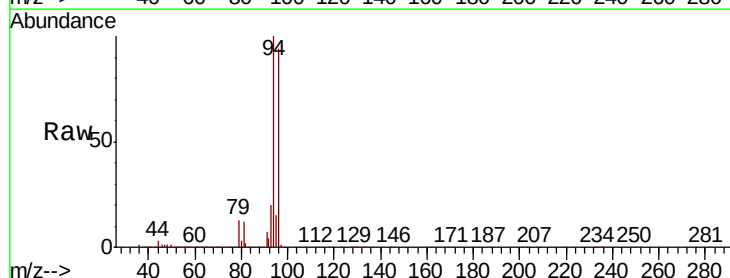
Acq: 27 Dec 2019 22:05

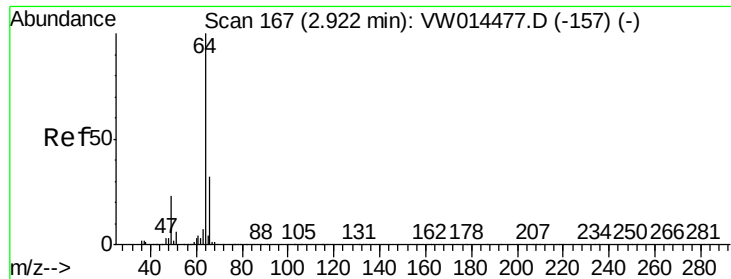
Tgt Ion: 94 Resp: 238182

Ion Ratio Lower Upper

94 100

96 94.5 9.4 178.8

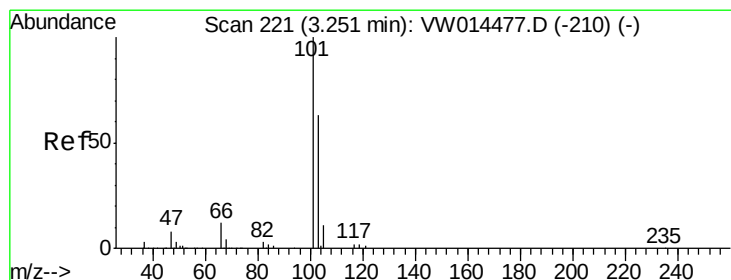
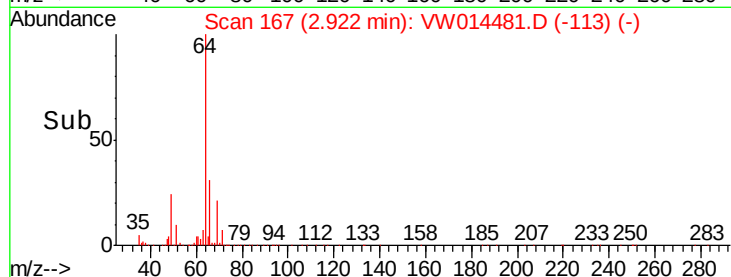
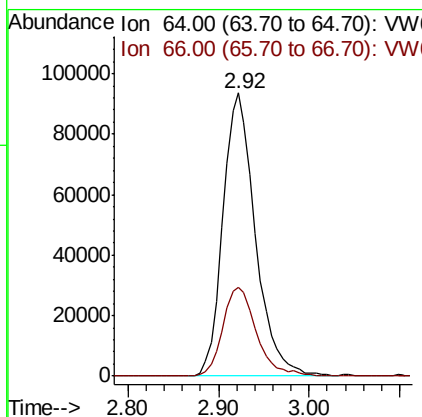
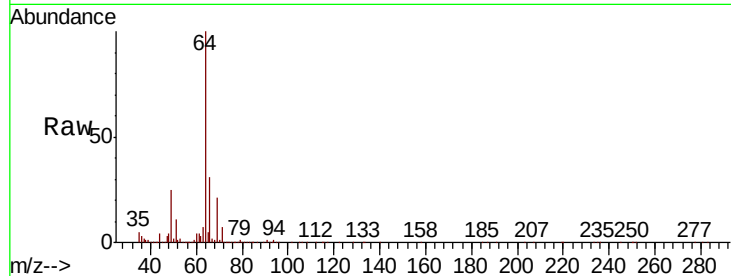




#8
Chloroethane
Concen: 24.516 ug/L
RT: 2.92 min Scan# 167
Delta R.T. 0.00 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

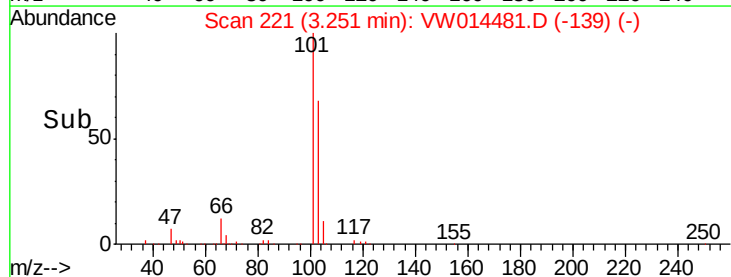
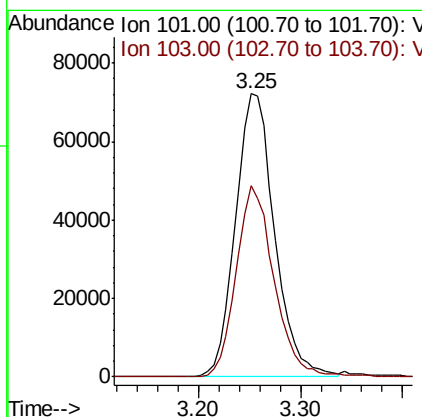
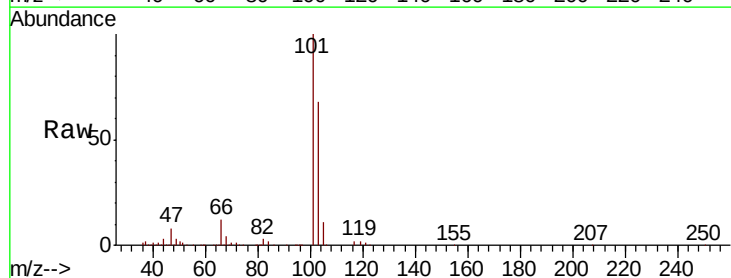
Instrument :
MSVOA_W
ClientSampleId :

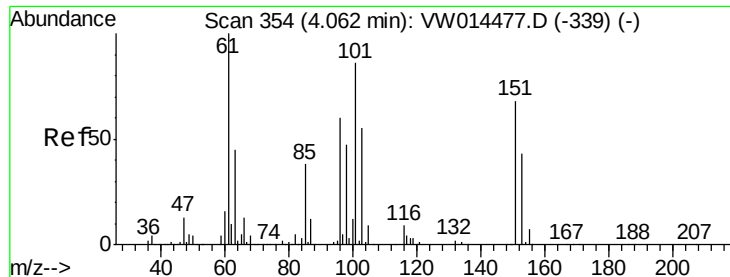
Tot Ion: 64 Resp: 232225
Ion Ratio Lower Upper
64 100
66 31.3 22.5 41.7



#9
Trichlorofluoromethane
Concen: 21.430 ug/L
RT: 3.25 min Scan# 221
Delta R.T. 0.00 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

Tgt Ion: 101 Resp: 192008
Ion Ratio Lower Upper
101 100
103 65.1 45.5 84.5





#11

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

Concen: 23.171 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

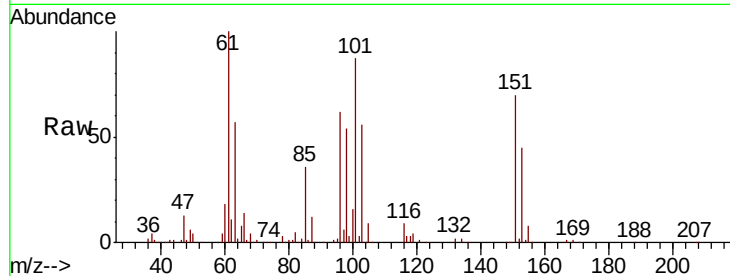
Tot Ion:101 Resp: 356393

Ion Ratio Lower Upper

101 100

85 40.7 33.3 49.9

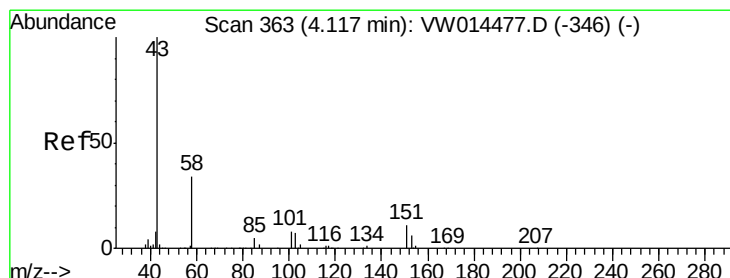
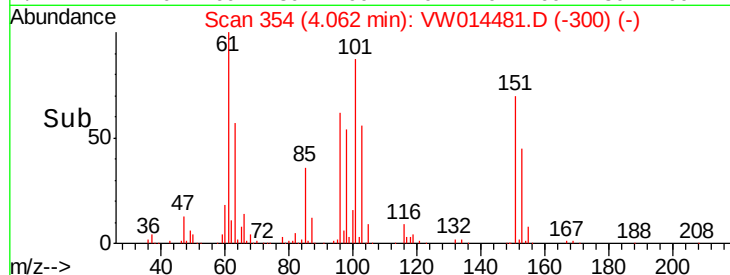
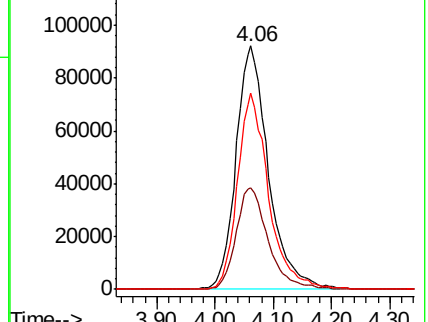
151 76.1 62.5 93.7



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



#13

Acetone

Concen: 33.329 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014481.D

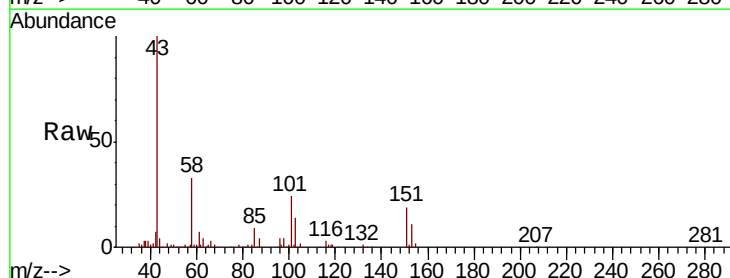
Acq: 27 Dec 2019 22:05

Tgt Ion: 43 Resp: 182210

Ion Ratio Lower Upper

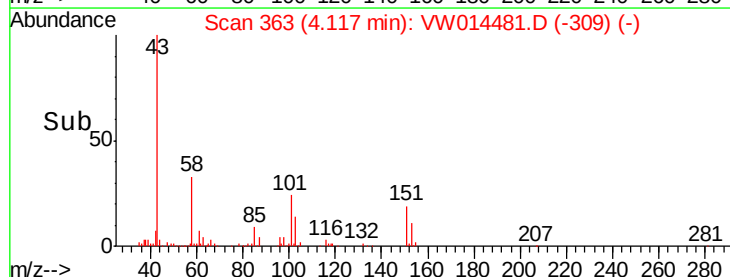
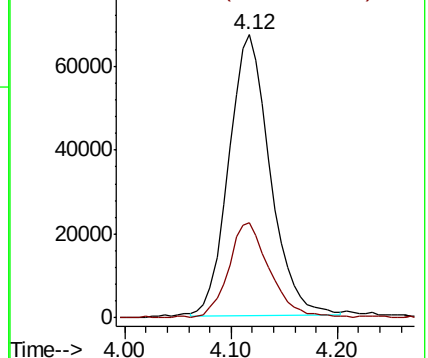
43 100

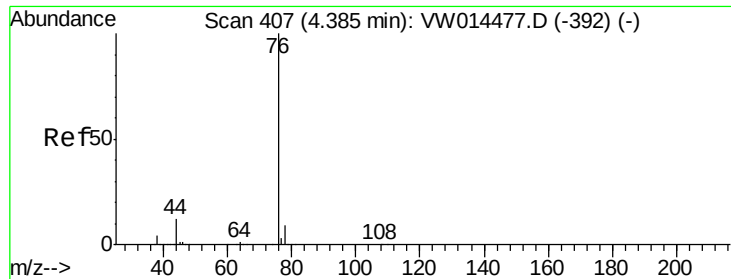
58 33.7 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 24.062 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

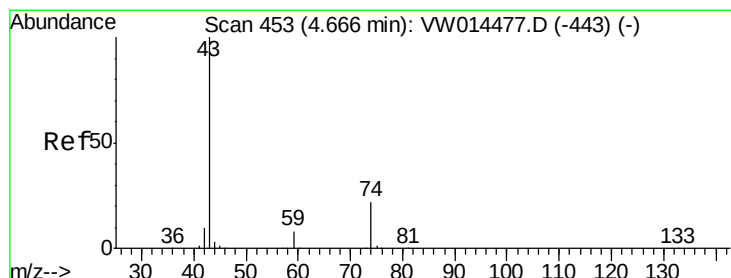
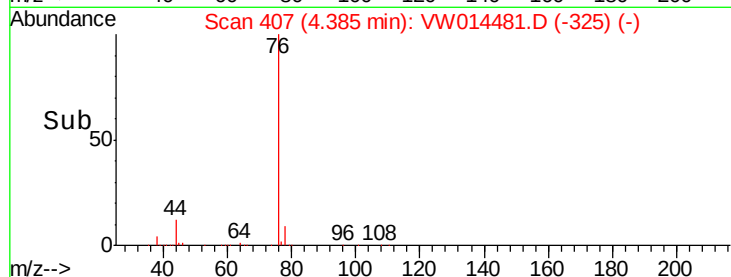
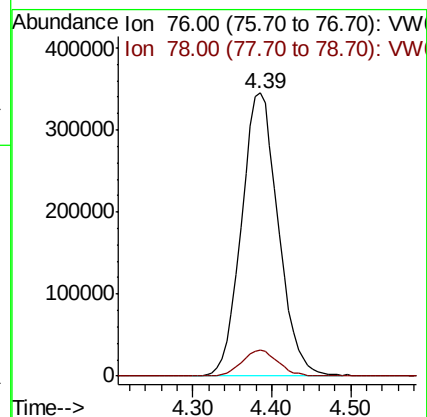
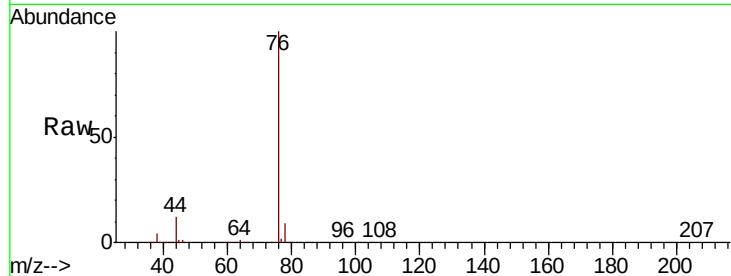
ClientSampleId :

Tot Ion: 76 Resp: 1118931

Ion Ratio Lower Upper

76 100

78 9.4 6.9 10.3



#15

Methyl Acetate

Concen: 24.107 ug/L

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW014481.D

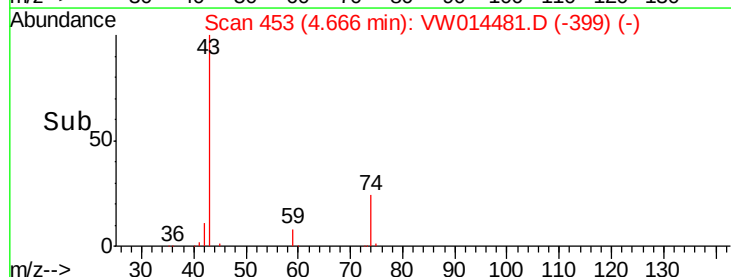
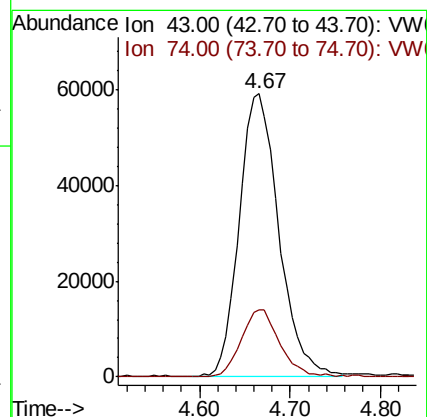
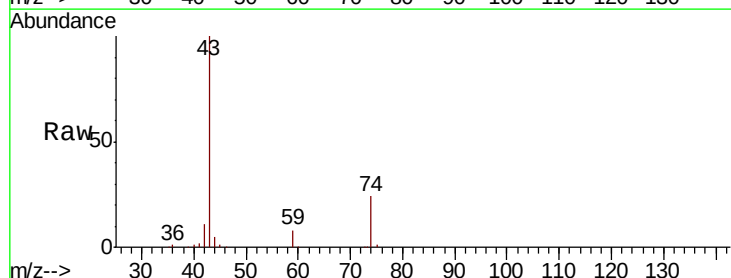
Acq: 27 Dec 2019 22:05

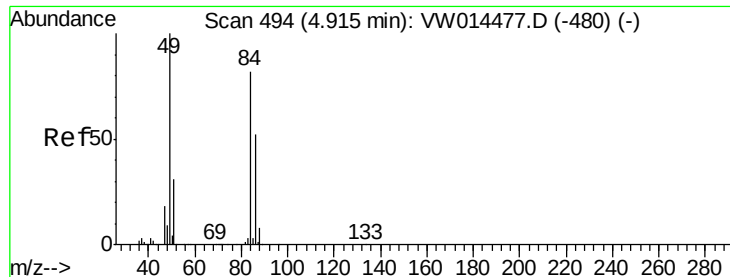
Tgt Ion: 43 Resp: 177844

Ion Ratio Lower Upper

43 100

74 23.0 18.3 27.5

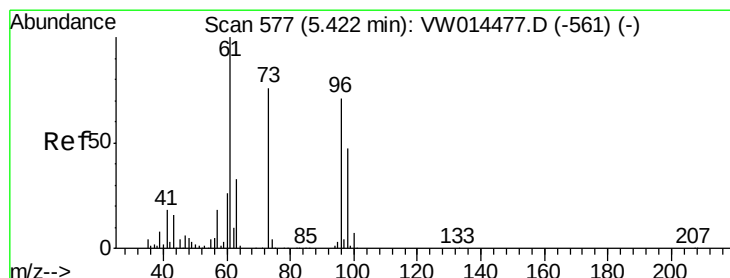
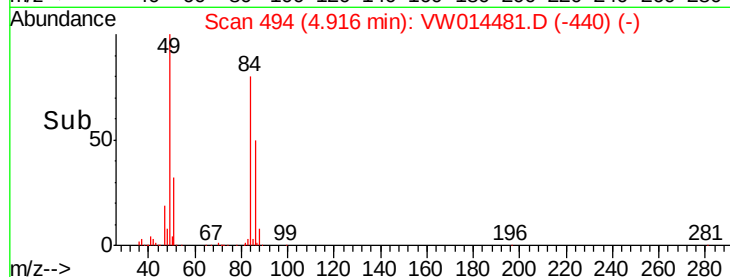
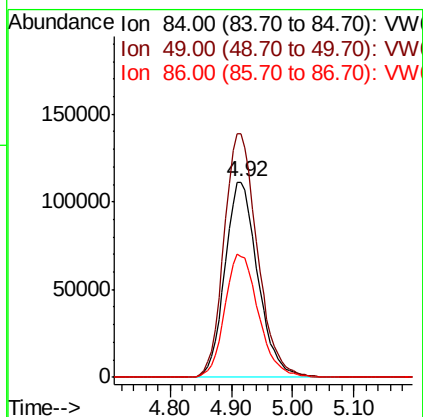
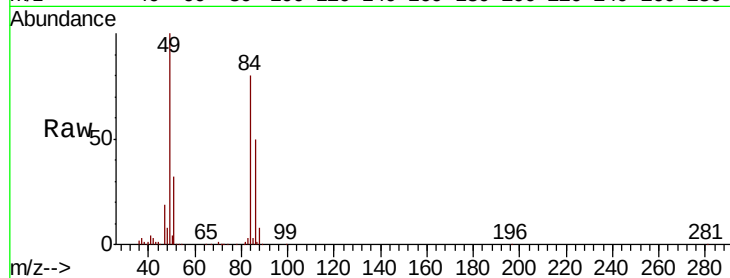




#16
Methylene chloride
Concen: 21.563 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

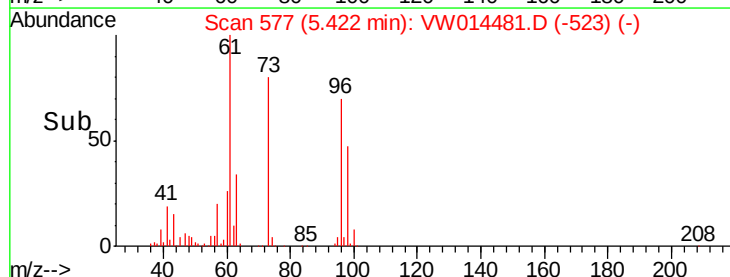
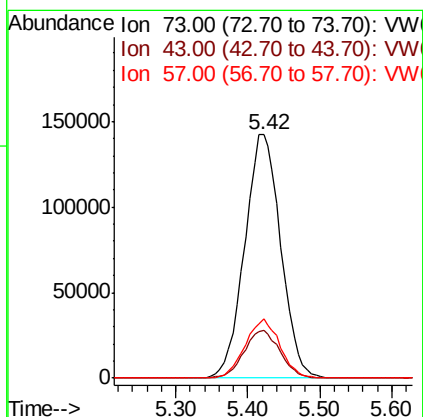
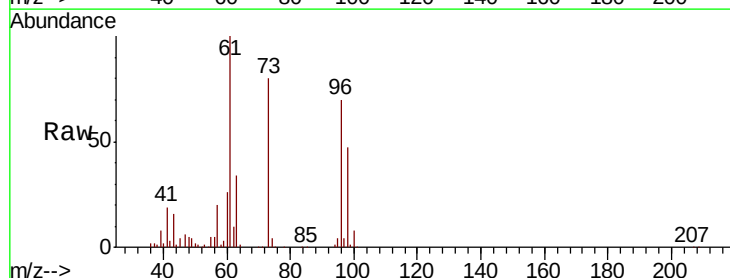
Instrument :
MSVOA_W
ClientSampleId :

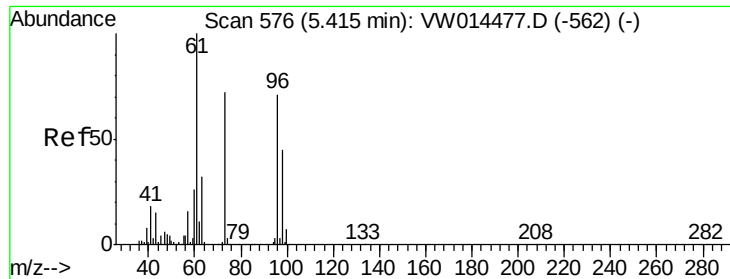
Tot Ion: 84 Resp: 413898
Ion Ratio Lower Upper
84 100
49 124.7 85.8 159.4
86 61.9 44.5 82.7



#17
Methyl tert-butyl Ether
Concen: 25.492 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

Tgt Ion: 73 Resp: 494209
Ion Ratio Lower Upper
73 100
43 19.5 15.7 23.5
57 23.3 18.3 27.5

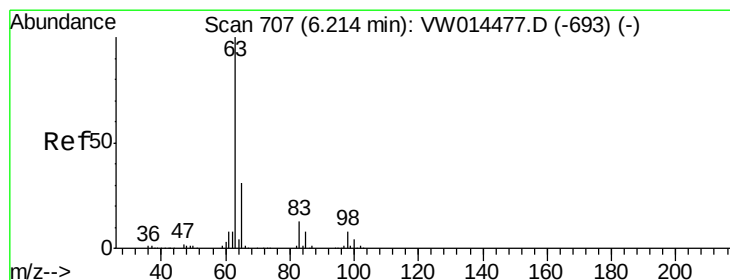
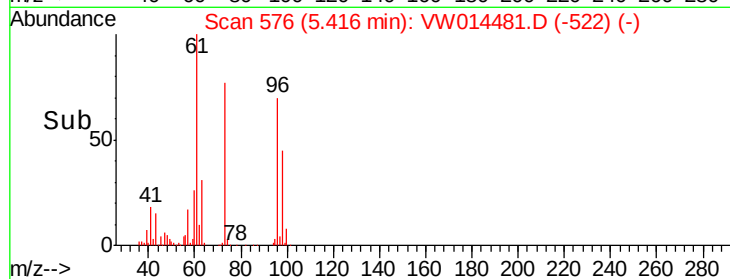
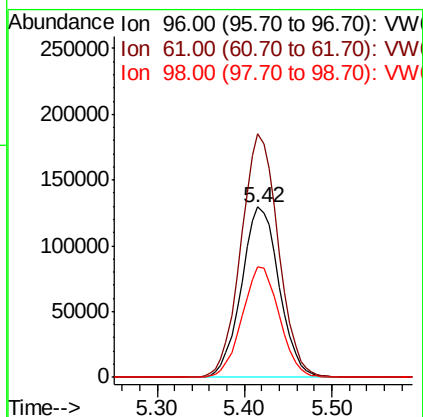
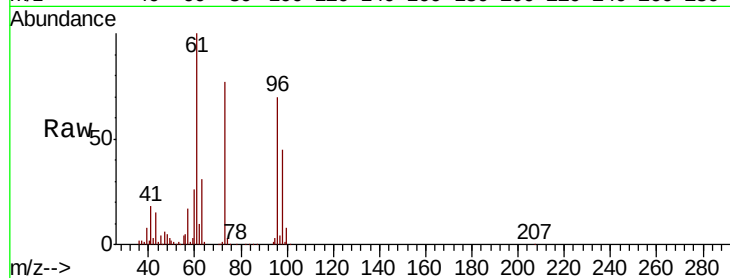




#18
 trans-1,2-Dichloroethene
 Concen: 24.453 ug/L
 RT: 5.42 min Scan# 576
 Delta R.T. 0.00 min
 Lab File: VW014481.D
 Acq: 27 Dec 2019 22:05

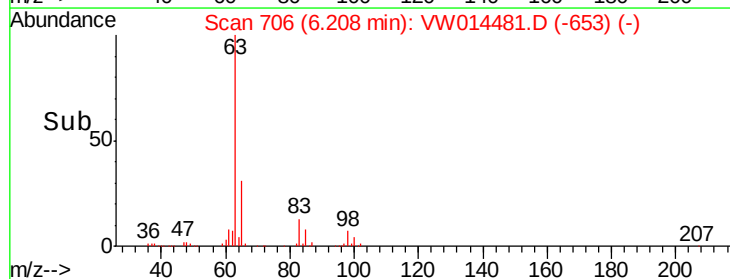
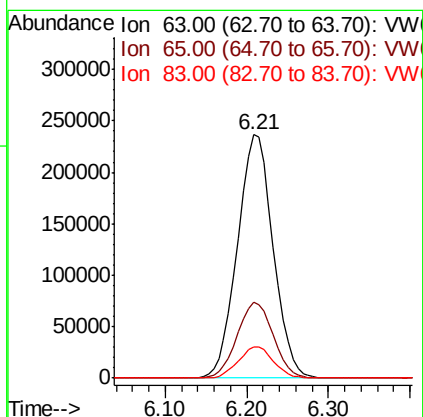
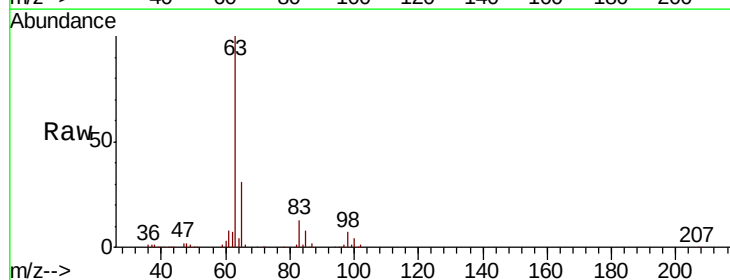
Instrument :
 MSVOA_W
 ClientSampleId :

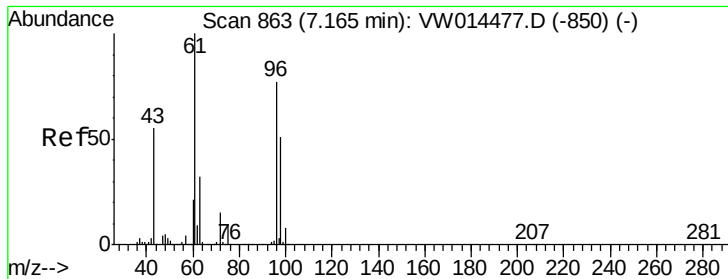
Tot Ion	Ratio	Lower	Upper
96	100		
61	143.1	98.2	182.4
98	65.1	44.1	81.9



#19
 1,1-Dichloroethane
 Concen: 25.037 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW014481.D
 Acq: 27 Dec 2019 22:05

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.3	21.7	40.3
83	13.0	9.0	16.8





#21

2-Butanone

Concen: 43.314 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

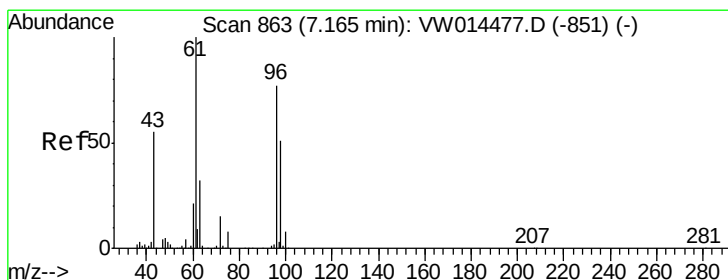
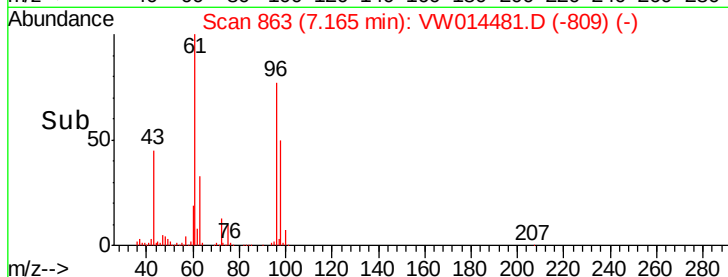
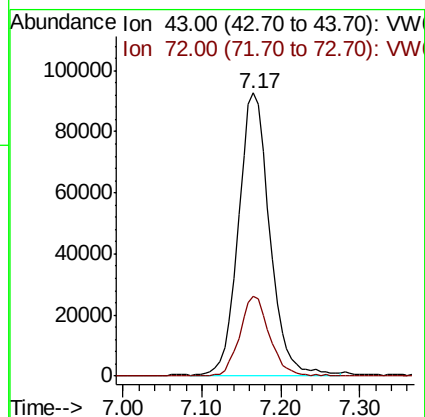
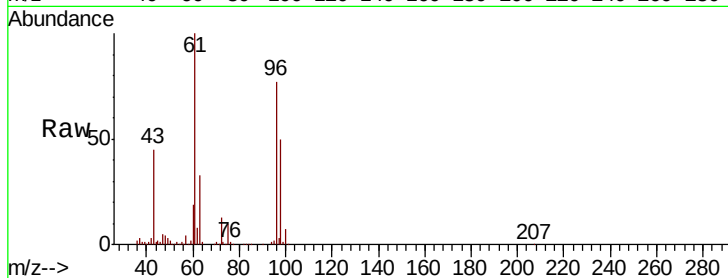
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 254065

Ion Ratio Lower Upper

43 100

72 27.0 13.3 39.8



#22

cis-1,2-Dichloroethene

Concen: 25.157 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

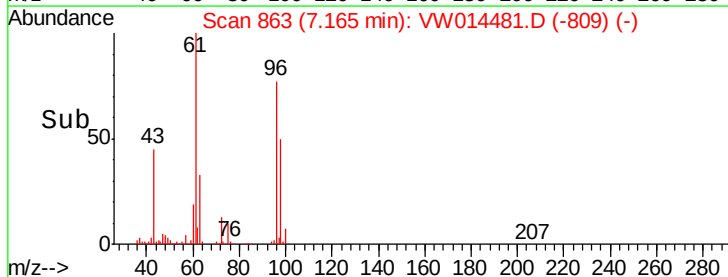
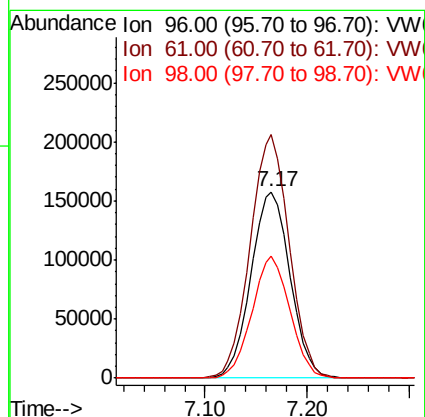
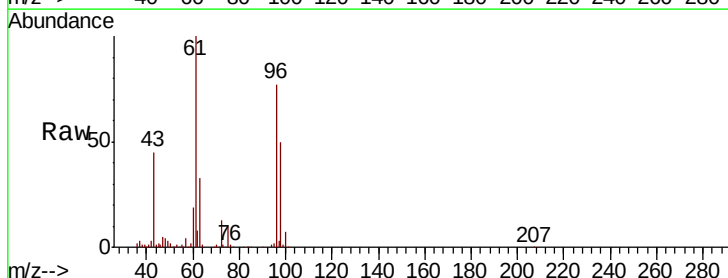
Tgt Ion: 96 Resp: 420147

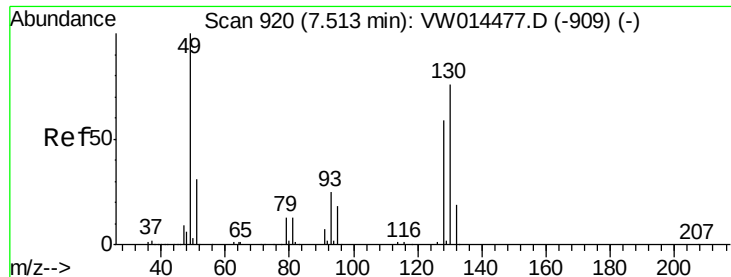
Ion Ratio Lower Upper

96 100

61 130.5 91.5 169.9

98 65.2 46.9 87.1





#23

Bromochloromethane

Concen: 24.980 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 180603

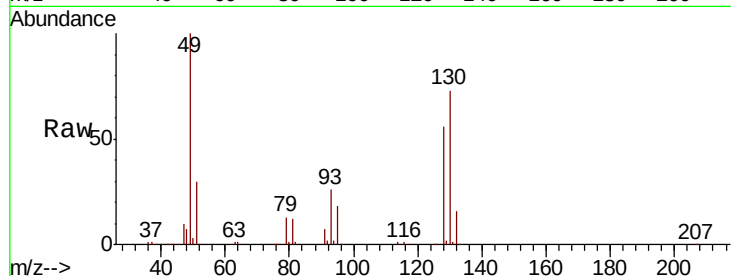
Ion Ratio Lower Upper

128 100

49 178.3 118.3 219.7

130 130.9 89.5 166.1

51 53.3 42.1 63.1

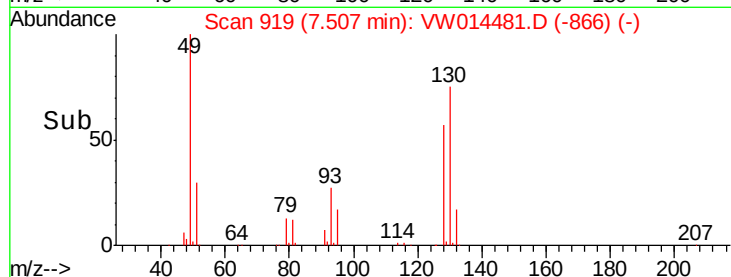
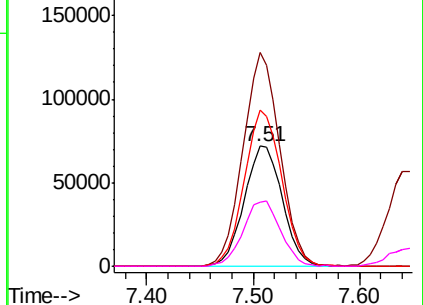


Abundance Ion 128.00 (127.70 to 128.70): V

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: 24.966 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014481.D

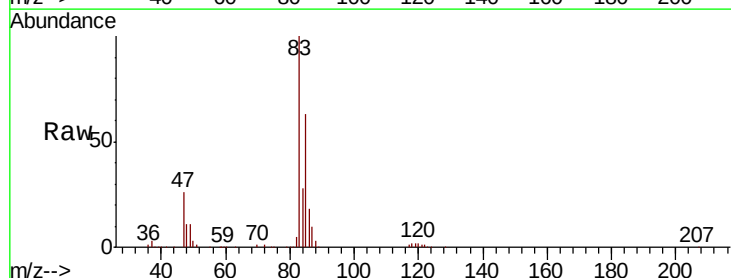
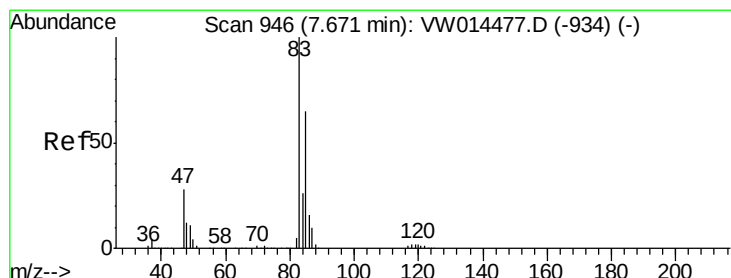
Acq: 27 Dec 2019 22:05

Tgt Ion: 83 Resp: 684890

Ion Ratio Lower Upper

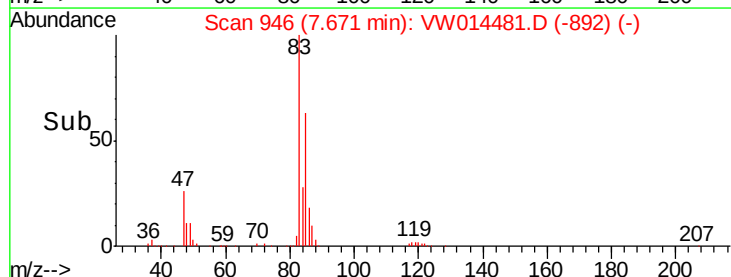
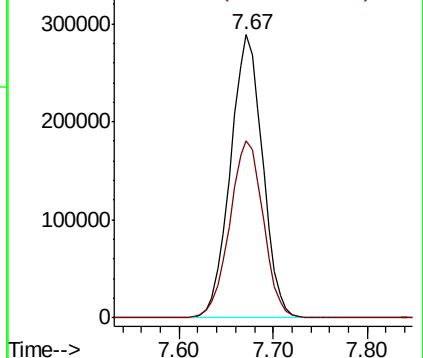
83 100

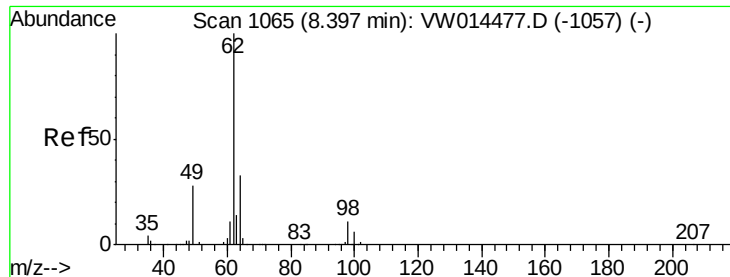
85 65.4 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

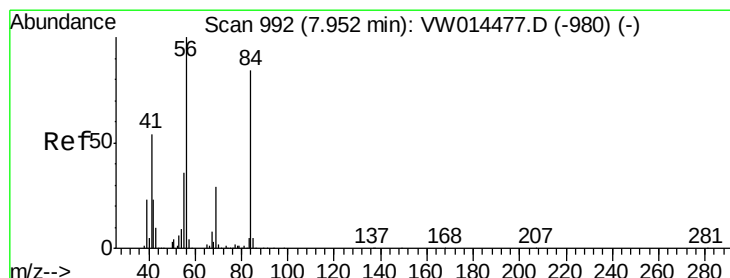
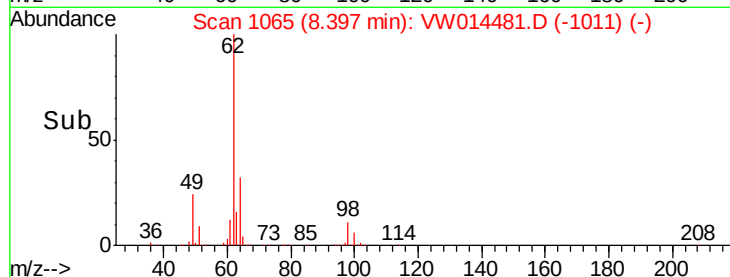
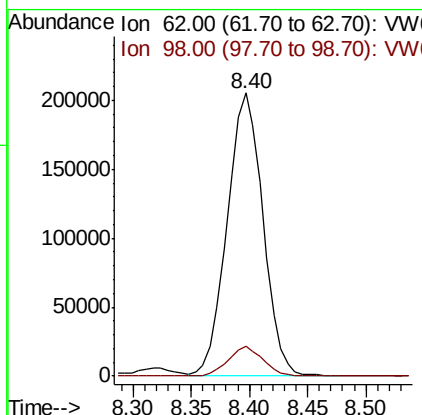
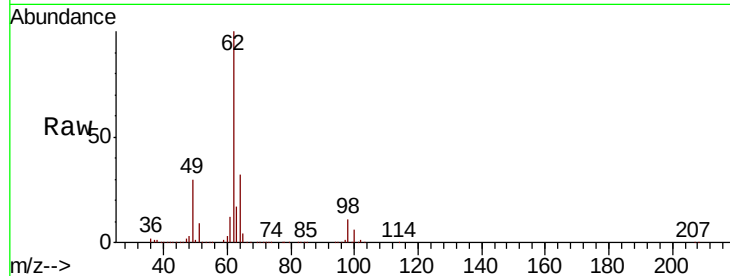




#27
 1,2-Dichloroethane
 Concen: 24.652 ug/L
 RT: 8.40 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VW014481.D
 Acq: 27 Dec 2019 22:05

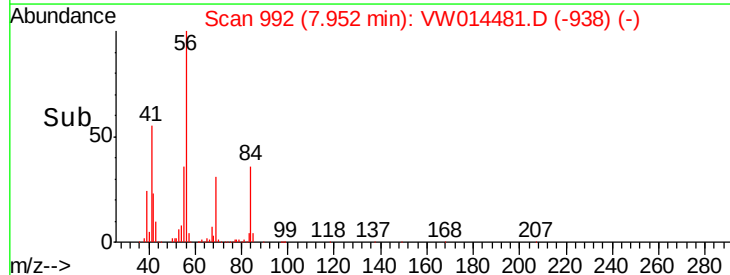
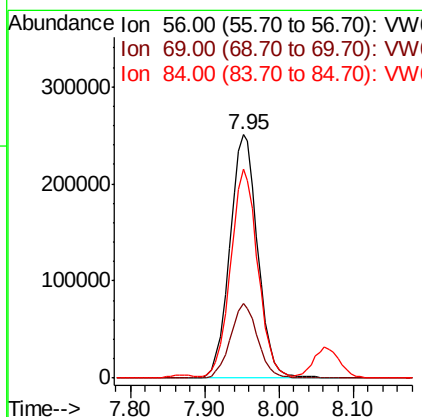
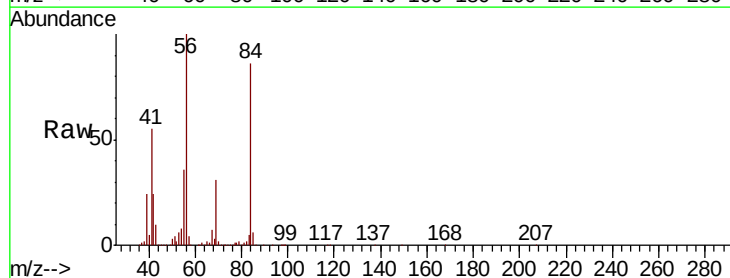
Instrument :
 MSVOA_W
 ClientSampleId :

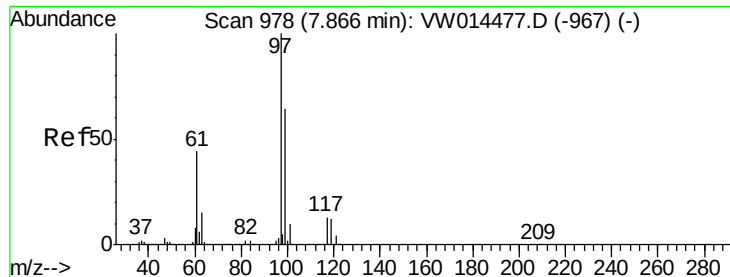
Tot Ion: 62 Resp: 439010
 Ion Ratio Lower Upper
 62 100
 98 10.8 8.3 12.5



#30
 Cyclohexane
 Concen: 24.144 ug/L
 RT: 7.95 min Scan# 992
 Delta R.T. 0.00 min
 Lab File: VW014481.D
 Acq: 27 Dec 2019 22:05

Tgt Ion: 56 Resp: 657603
 Ion Ratio Lower Upper
 56 100
 69 29.9 23.8 35.8
 84 83.7 68.2 102.2





#31

1,1,1-Trichloroethane

Concen: 24.099 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

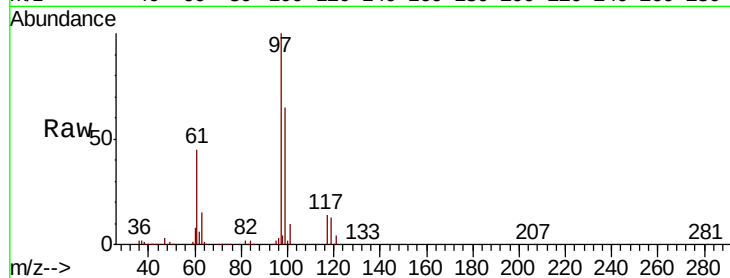
Tot Ion: 97 Resp: 526355

Ion Ratio Lower Upper

97 100

99 64.3 51.6 77.4

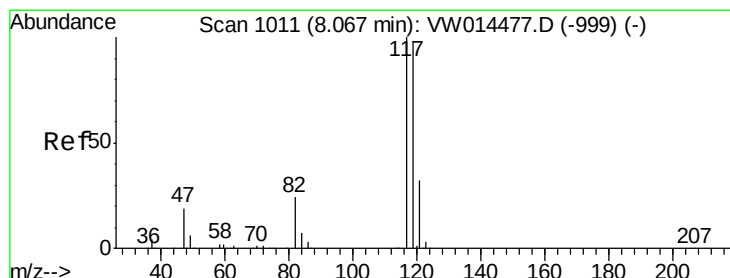
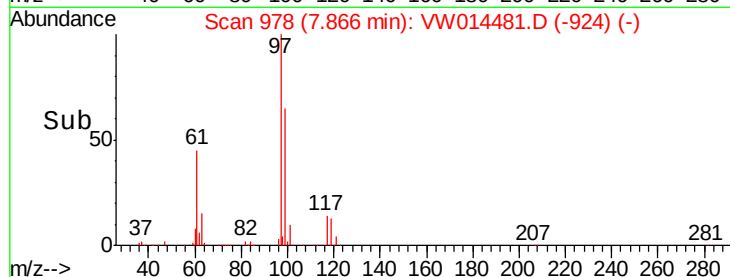
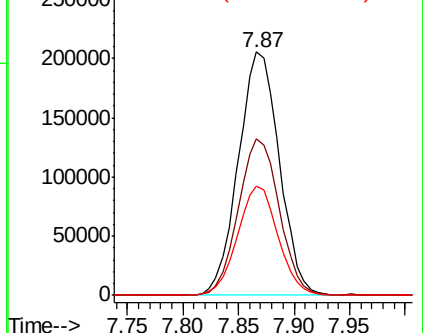
61 44.5 35.3 52.9



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: 23.972 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW014481.D

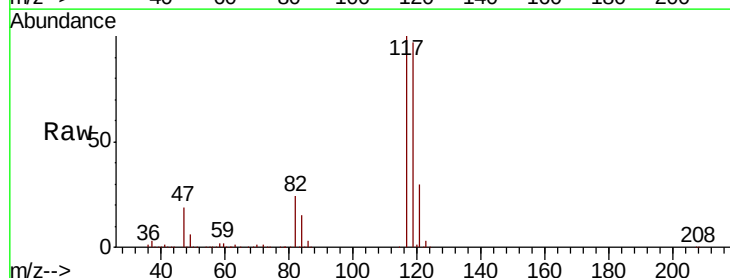
Acq: 27 Dec 2019 22:05

Tgt Ion: 117 Resp: 487829

Ion Ratio Lower Upper

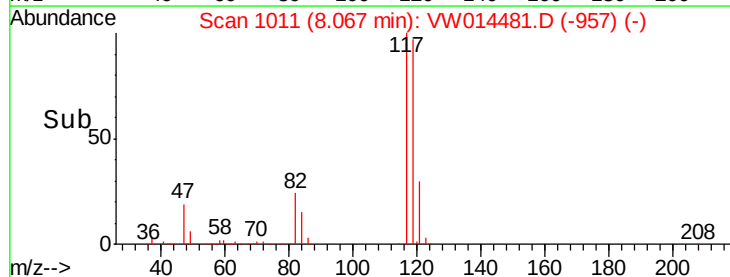
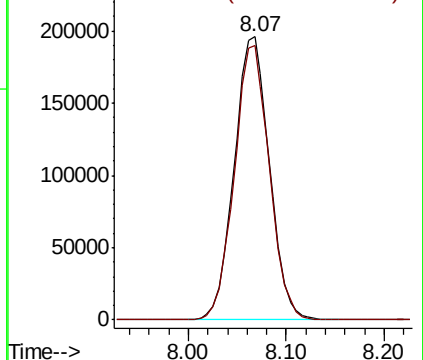
117 100

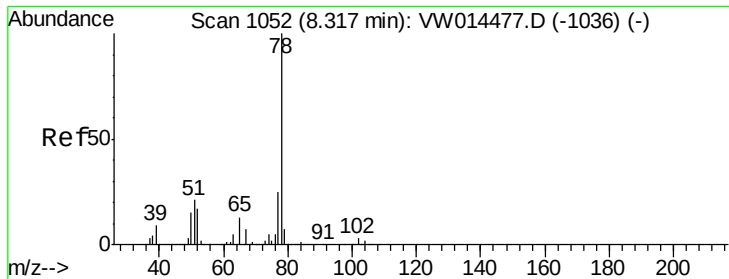
119 96.5 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 25.294 ug/L

RT: 8.32 min Scan# 1053

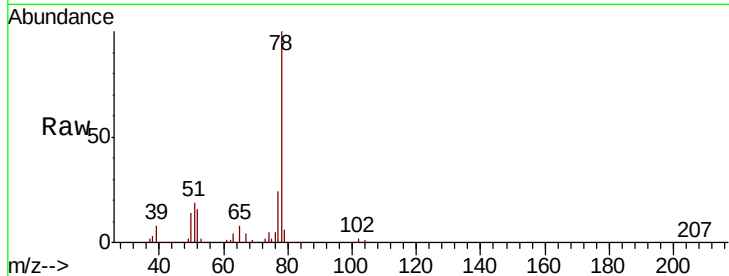
Delta R.T. 0.01 min

Lab File: VW014481.D

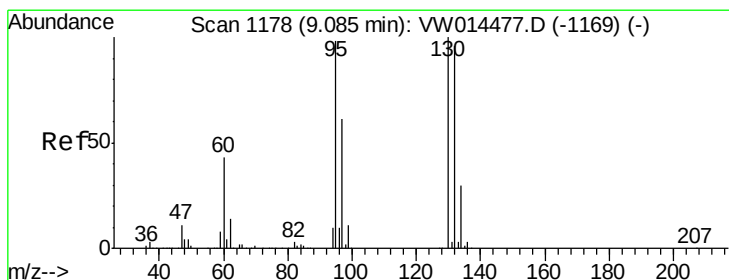
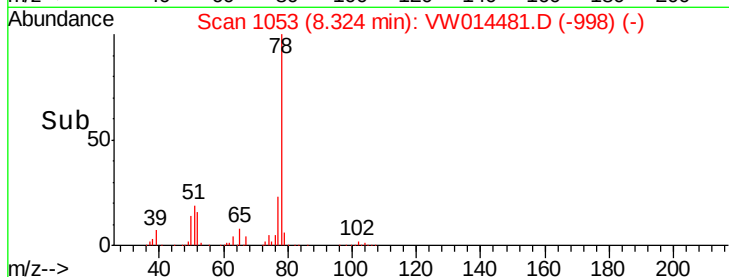
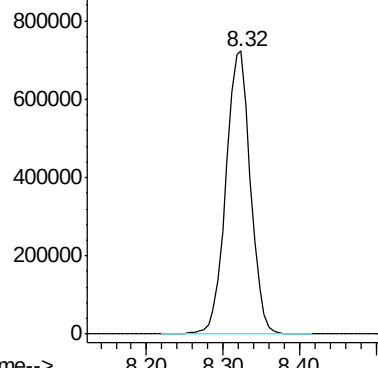
Acq: 27 Dec 2019 22:05

Instrument :
MSVOA_W
ClientSampled :

Tgt Ion: 78 Resp: 1620755



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 24.251 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Tgt Ion: 95 Resp: 401042

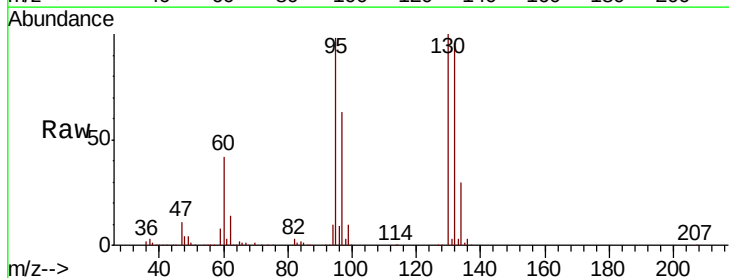
Ion	Ratio	Lower	Upper
95	100		
97	65.3	44.3	82.3
132	99.0	69.2	128.6
130	103.6	72.3	134.3

95 100

97 65.3 44.3 82.3

132 99.0 69.2 128.6

130 103.6 72.3 134.3

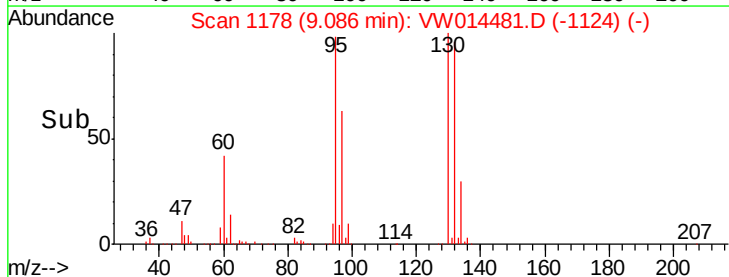
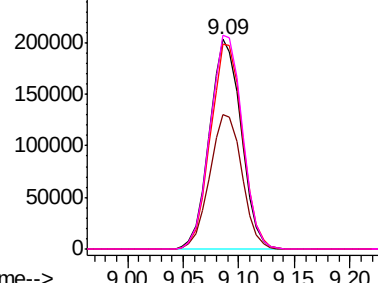


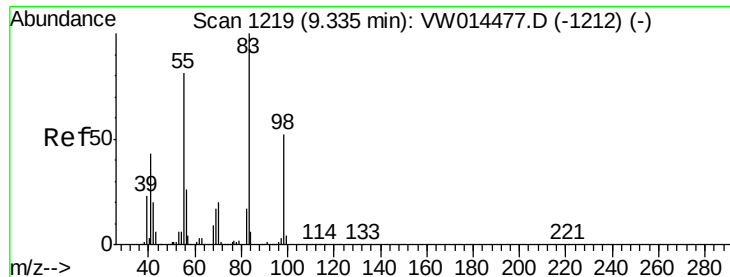
Abundance Ion 95.00 (94.70 to 95.70): VW

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

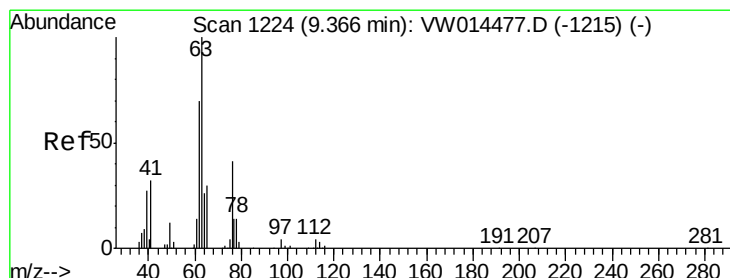
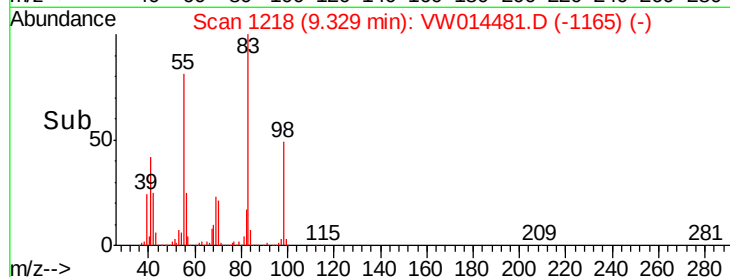
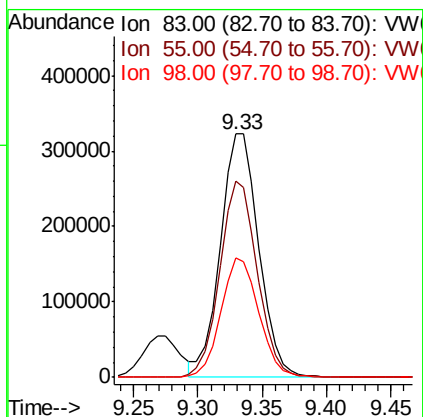
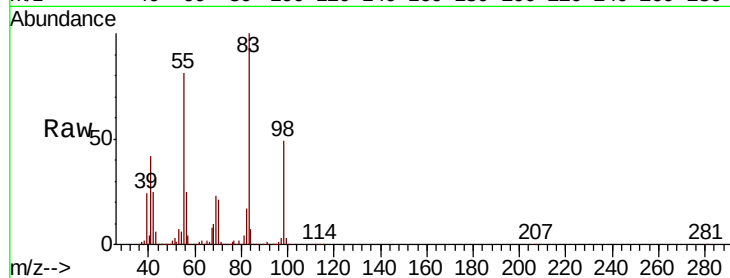




#36
Methylcyclohexane
Concen: 23.193 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

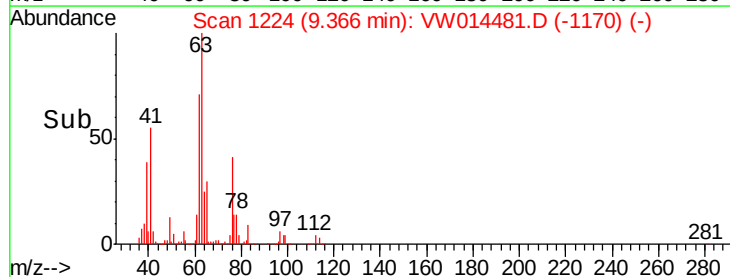
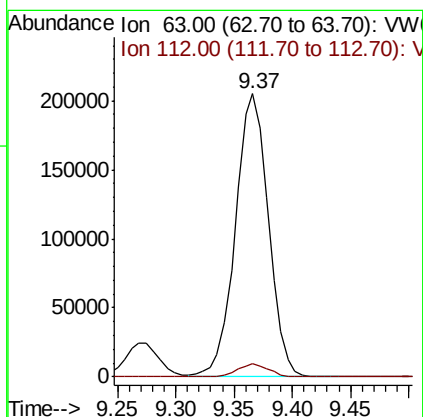
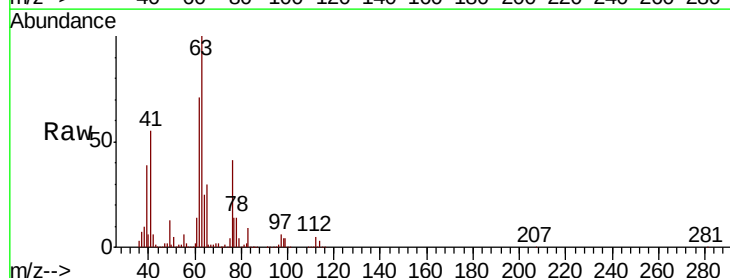
Instrument :
MSVOA_W
ClientSampled :

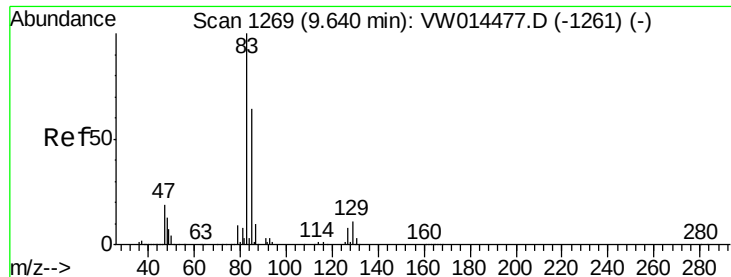
Tot Ion: 83 Resp: 672880
Ion Ratio Lower Upper
83 100
55 79.1 63.7 95.5
98 48.4 39.4 59.2



#40
1,2-Dichloropropane
Concen: 25.074 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

Tgt Ion: 63 Resp: 406653
Ion Ratio Lower Upper
63 100
112 4.4 3.7 5.5





#41

Bromodichloromethane

Concen: 24.976 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

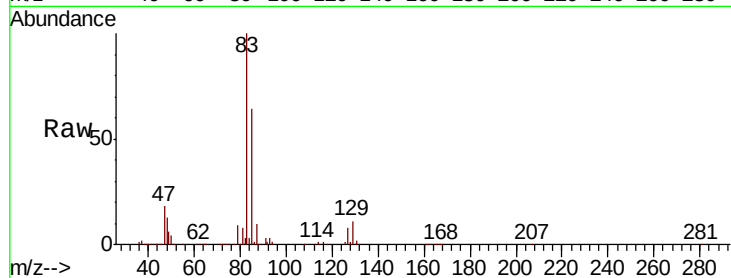
Tot Ion: 83 Resp: 487235

Ion Ratio Lower Upper

83 100

85 63.7 44.7 83.1

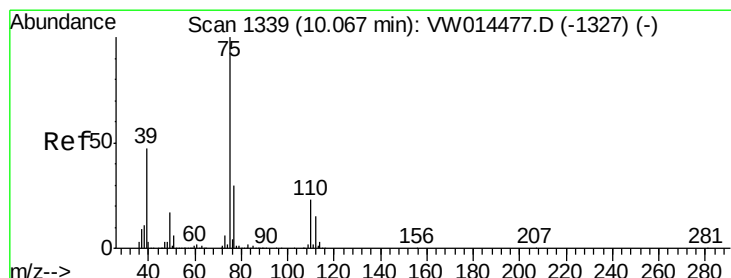
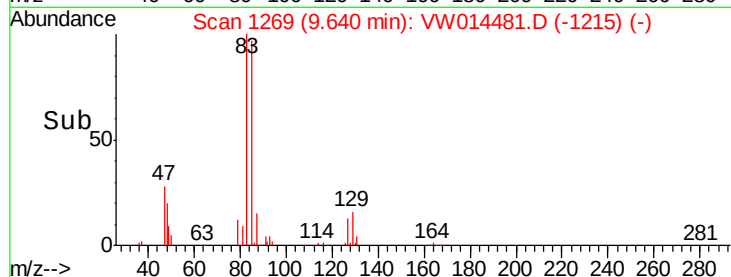
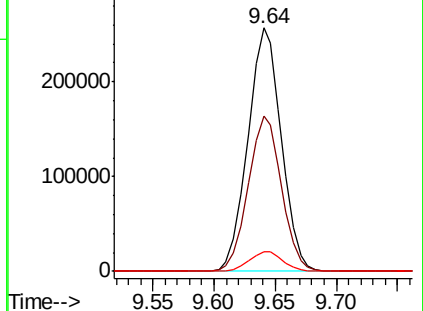
127 8.2 6.3 9.5



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: 25.412 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014481.D

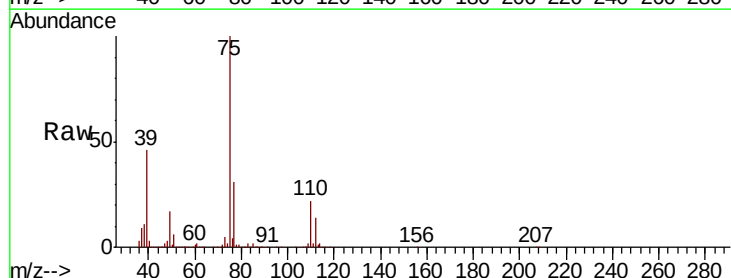
Acq: 27 Dec 2019 22:05

Tgt Ion: 75 Resp: 615638

Ion Ratio Lower Upper

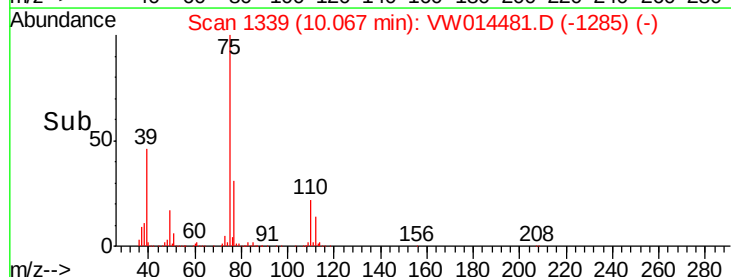
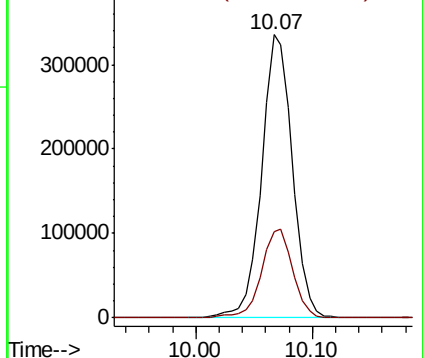
75 100

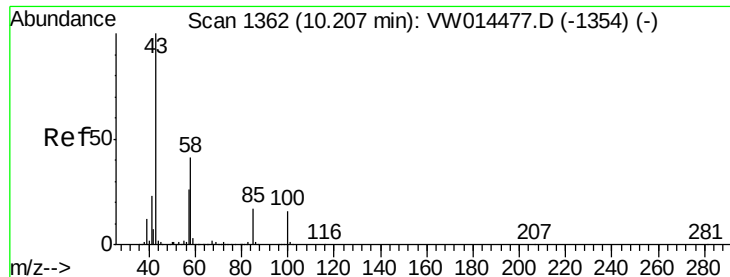
77 30.5 21.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

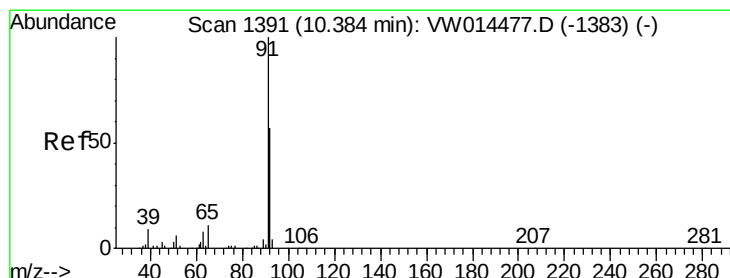
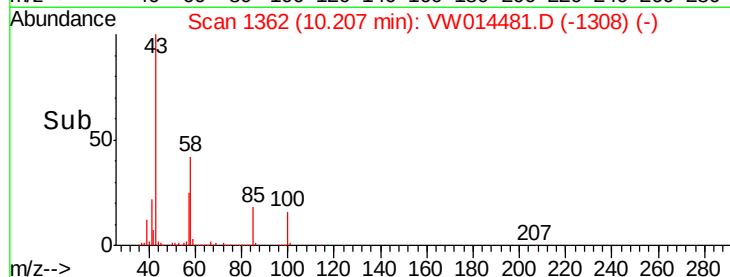
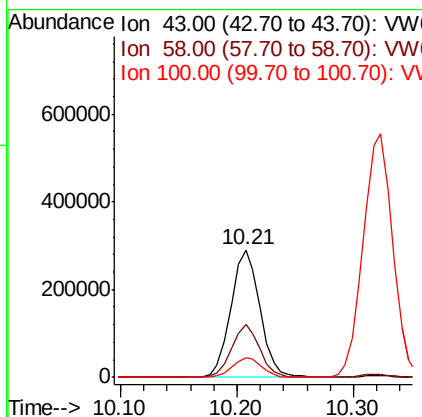
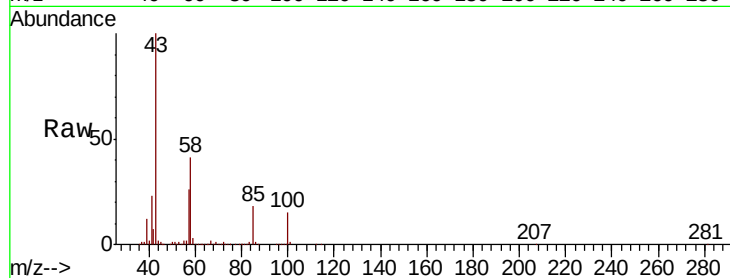




#43
4-Methyl-2-pentanone
Concen: 48.479 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

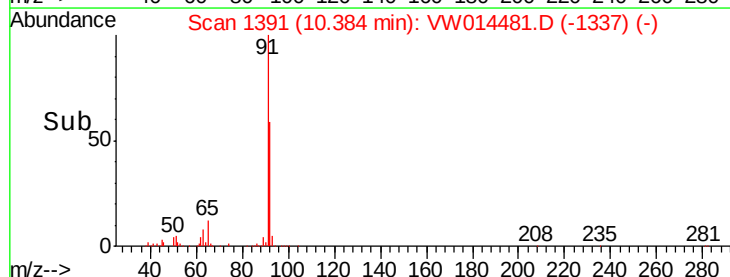
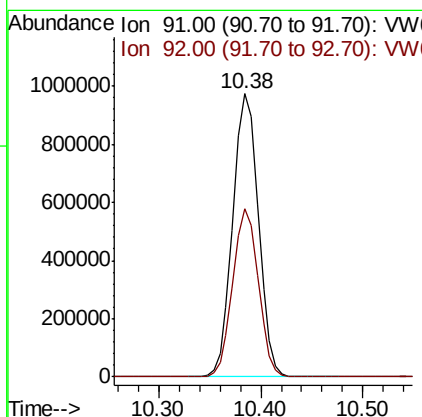
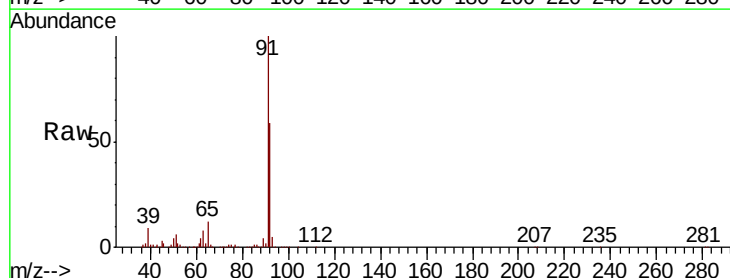
Instrument :
MSVOA_W
ClientSampled :

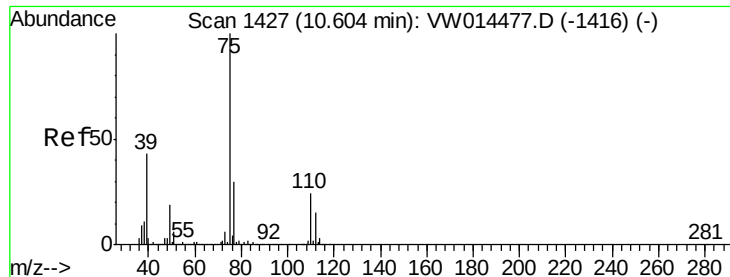
Tot Ion: 43 Resp: 504721
Ion Ratio Lower Upper
43 100
58 40.0 32.6 48.8
100 15.3 12.6 19.0



#44
Toluene
Concen: 25.274 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW014481.D
Acq: 27 Dec 2019 22:05

Tgt Ion: 91 Resp: 1692358
Ion Ratio Lower Upper
91 100
92 59.4 40.2 74.6





#45

trans-1,3-Dichloropropene

Concen: 25.118 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

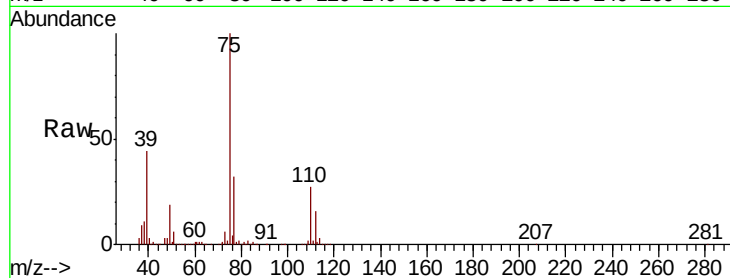
ClientSampleId :

Tot Ion: 75 Resp: 486564

Ion Ratio Lower Upper

75 100

77 32.0 21.1 39.3



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.60

250000

200000

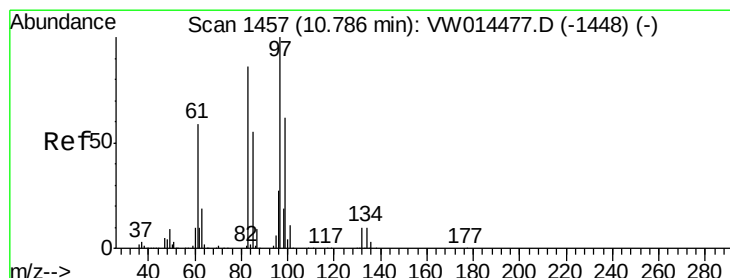
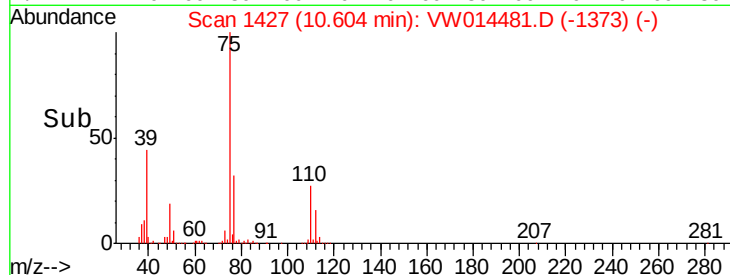
150000

100000

50000

0

Time-->



#46

1,1,2-Trichloroethane

Concen: 24.656 ug/L

RT: 10.78 min Scan# 1456

Delta R.T. -0.01 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Tgt Ion: 97 Resp: 283236

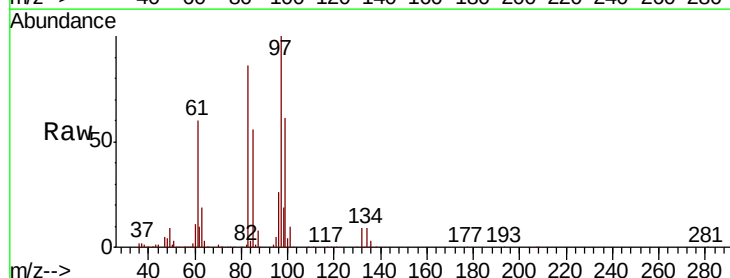
Ion Ratio Lower Upper

97 100

83 86.5 60.1 111.5

85 55.7 38.1 70.9

99 60.7 43.4 80.6



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW

250000

200000

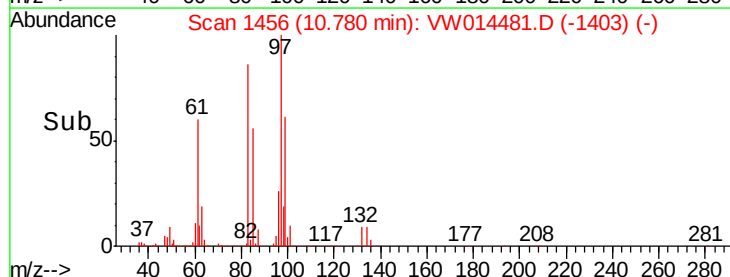
150000

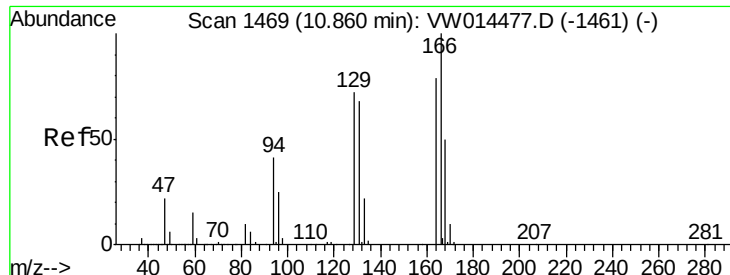
100000

50000

0

Time-->





#47

Tetrachloroethene

Concen: 23.700 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:164 Resp: 329089

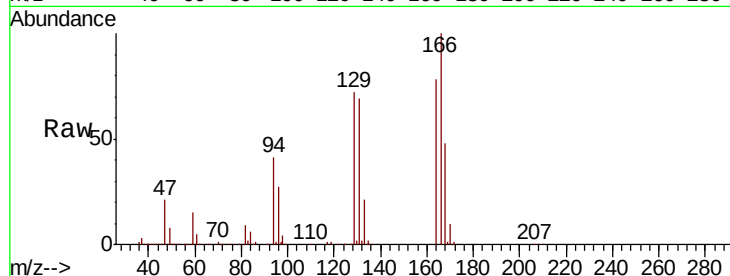
Ion Ratio Lower Upper

164 100

129 92.3 64.0 118.8

131 89.0 60.2 111.8

166 128.5 88.2 163.8

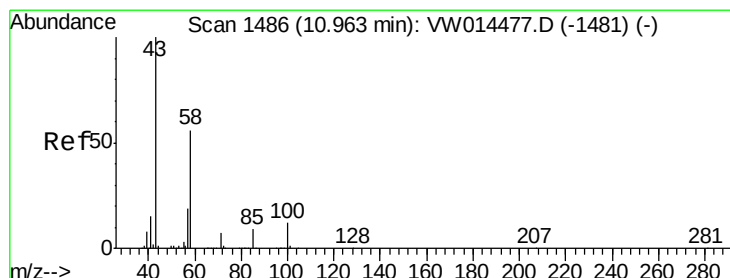
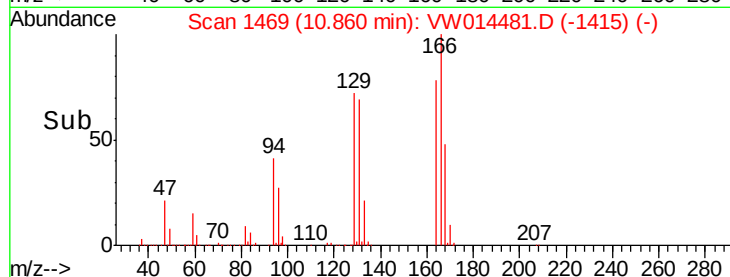
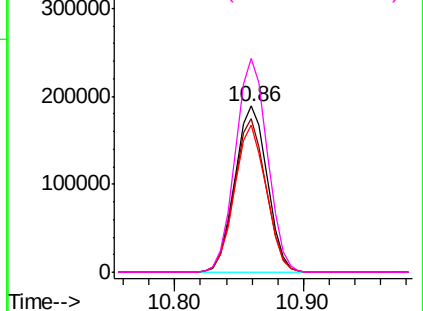


Abundance Ion 164.00 (163.70 to 164.70): V

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: 48.309 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Tgt Ion: 43 Resp: 343450

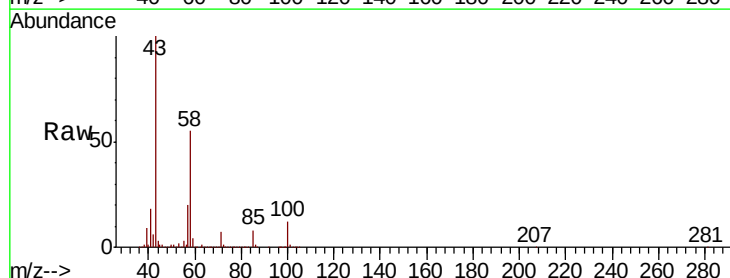
Ion Ratio Lower Upper

43 100

58 56.8 44.9 67.3

57 19.5 15.3 22.9

100 12.6 10.0 15.0

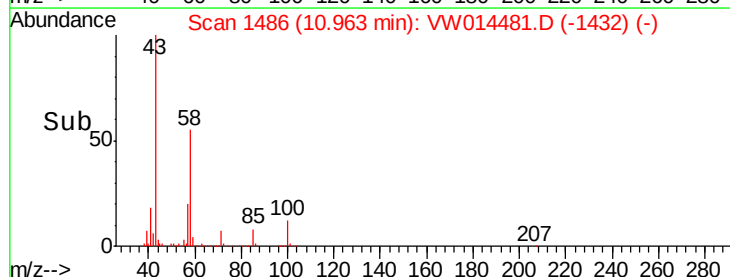
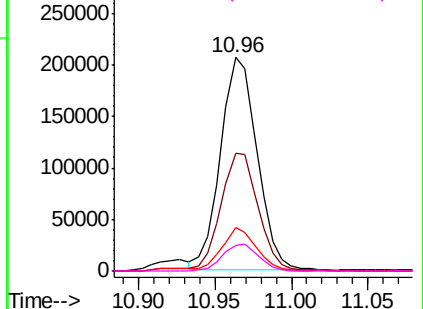


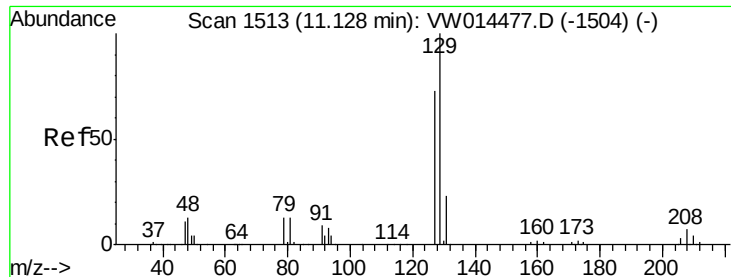
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 58.00 (57.70 to 58.70): VV

Ion 57.00 (56.70 to 57.70): VV

Ion 100.00 (99.70 to 100.70): VV





#50

Dibromochloromethane

Concen: 24.832 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

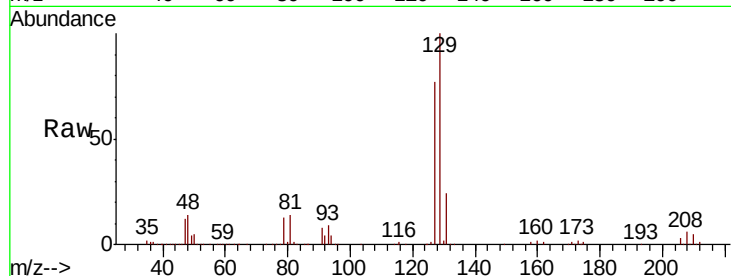
ClientSampleId :

Tot Ion:129 Resp: 323895

Ion Ratio Lower Upper

129 100

127 77.0 51.1 94.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

200000

150000

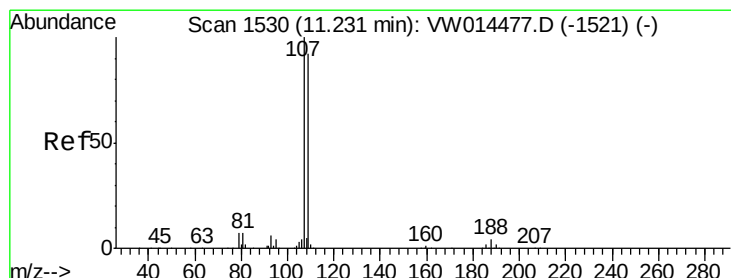
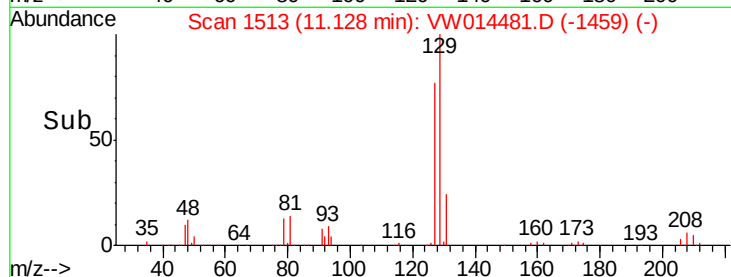
100000

50000

0

Time-->

11.10 11.20



#51

1,2-Dibromoethane

Concen: 24.357 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

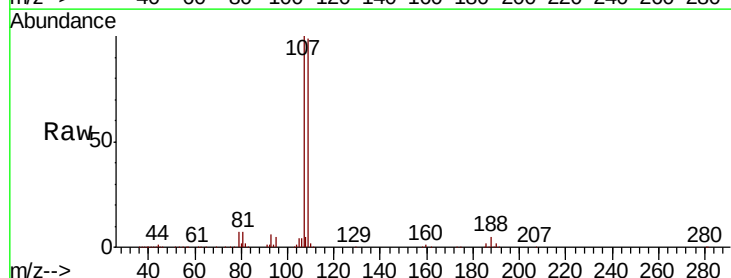
Tgt Ion:107 Resp: 264113

Ion Ratio Lower Upper

107 100

109 99.1 64.7 120.1

188 4.7 3.0 4.6#



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

11.23

200000

150000

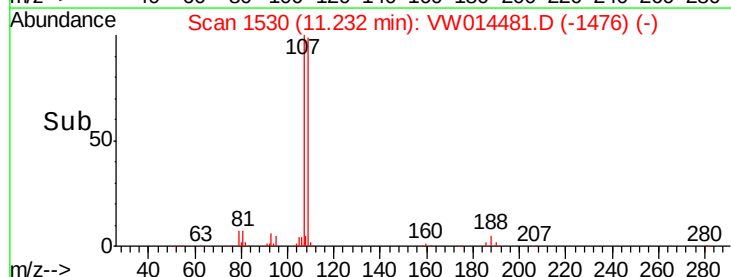
100000

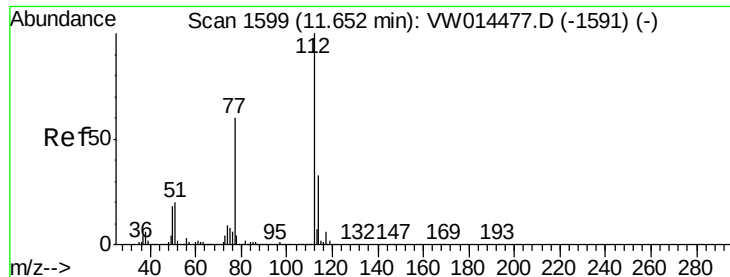
50000

0

Time-->

11.15 11.20 11.25 11.30





#52

Chlorobenzene

Concen: 24.710 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

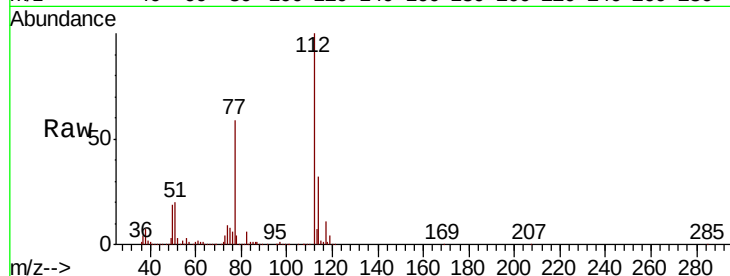
Tot Ion:112 Resp: 1045949

Ion Ratio Lower Upper

112 100

77 59.4 48.2 72.2

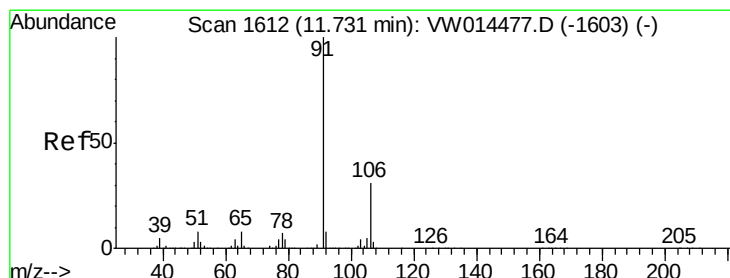
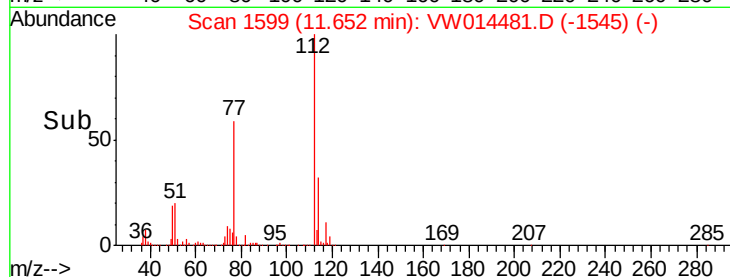
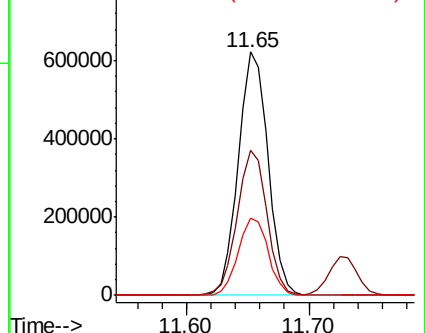
114 31.8 22.9 42.5



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: 24.972 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014481.D

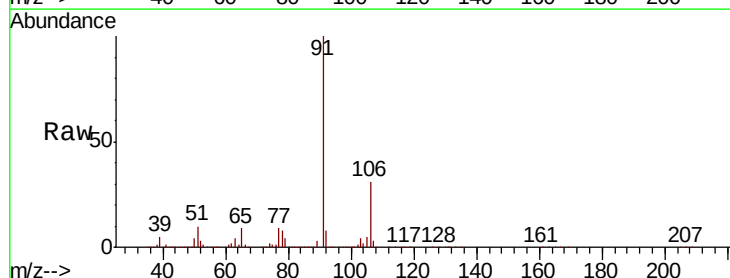
Acq: 27 Dec 2019 22:05

Tgt Ion: 91 Resp: 1838523

Ion Ratio Lower Upper

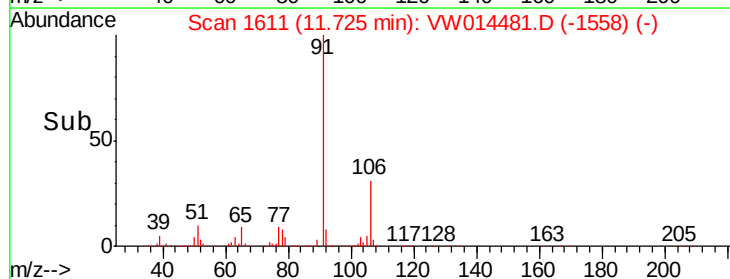
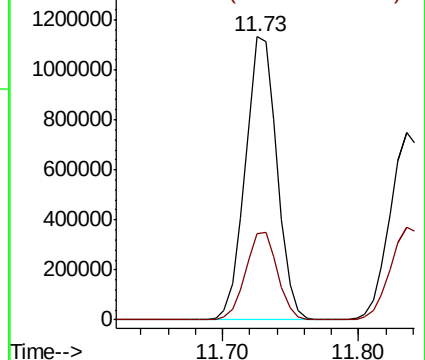
91 100

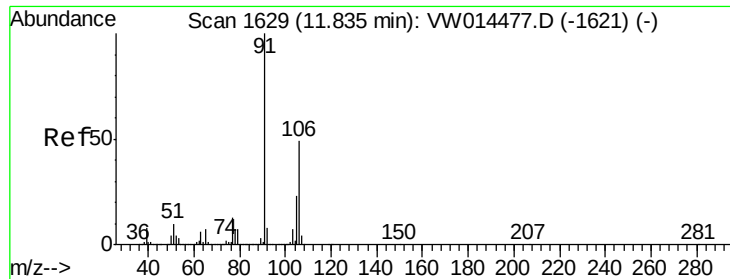
106 30.5 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 25.170 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

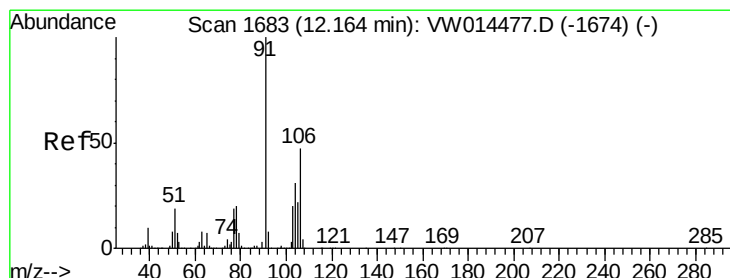
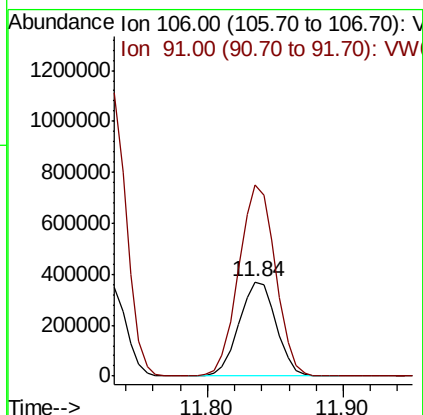
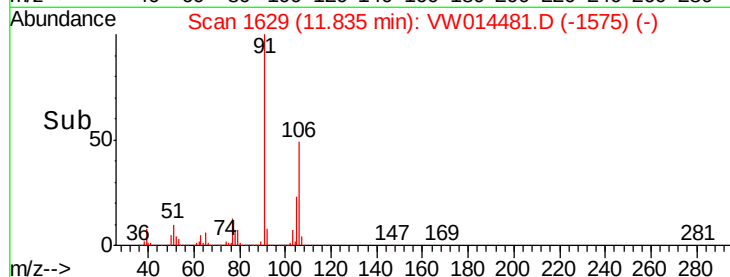
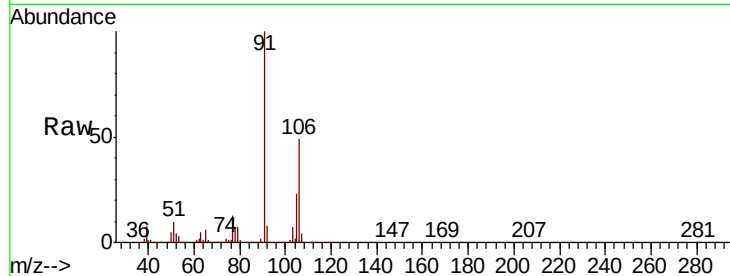
ClientSampleId :

Tot Ion:106 Resp: 701254

Ion Ratio Lower Upper

106 100

91 202.2 142.2 264.0



#55

o-xylene

Concen: 25.483 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014481.D

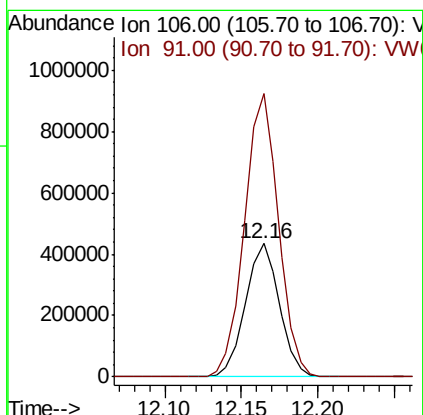
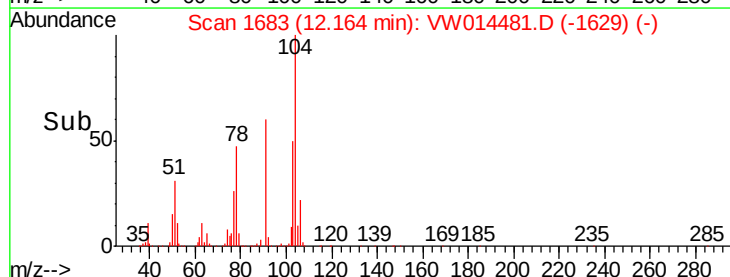
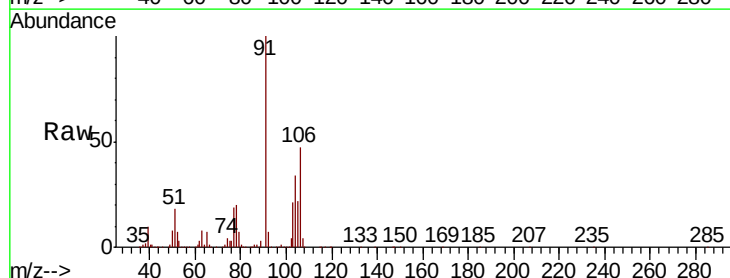
Acq: 27 Dec 2019 22:05

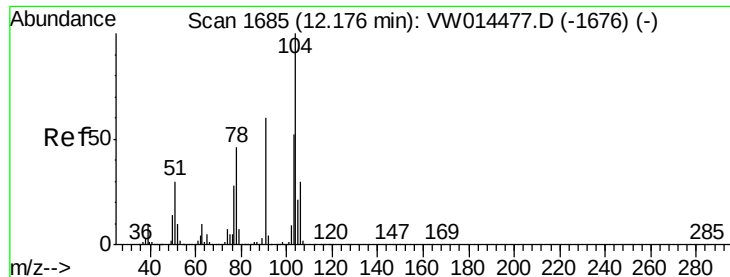
Tgt Ion:106 Resp: 670615

Ion Ratio Lower Upper

106 100

91 212.5 148.7 276.1





#56

Stvrene

Concen: 26.040 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

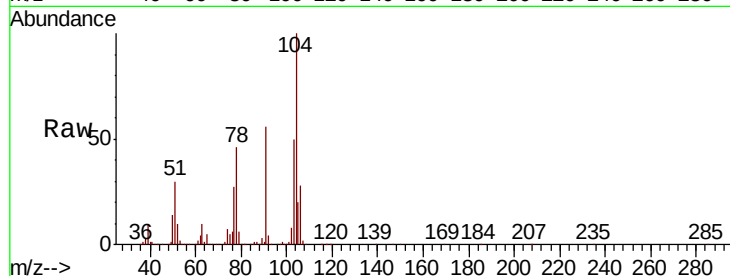
ClientSampleId :

Tot Ion:104 Resp: 1153401

Ion Ratio Lower Upper

104 100

78 45.6 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

12.18

800000

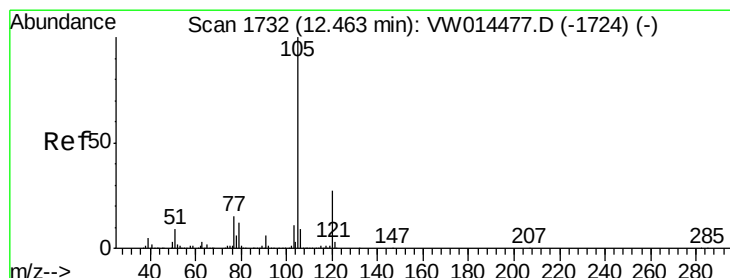
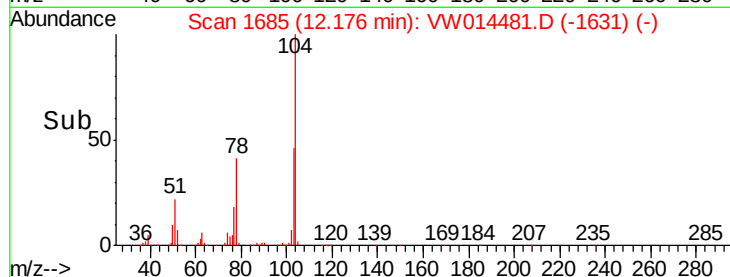
600000

400000

200000

0

Time-->



#57

Isopropylbenzene

Concen: 25.181 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

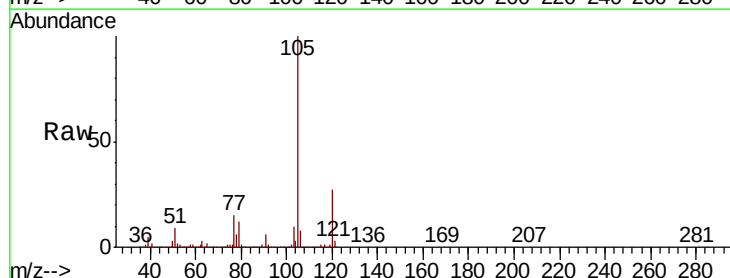
Tgt Ion:105 Resp: 1762719

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.6

77 15.1 12.2 18.2



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

12.46

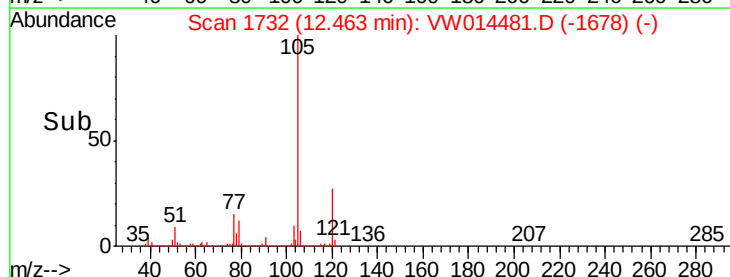
1500000

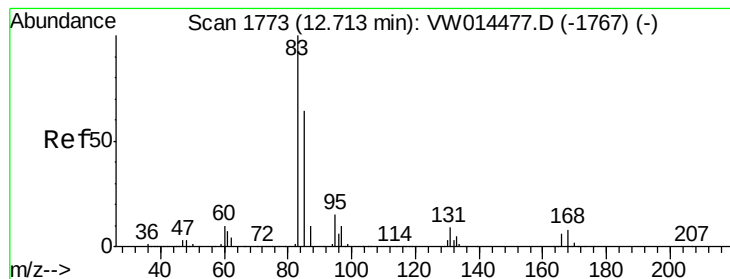
1000000

500000

0

Time-->





#58

1,1,2,2-Tetrachloroethane

Concen: 24.129 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

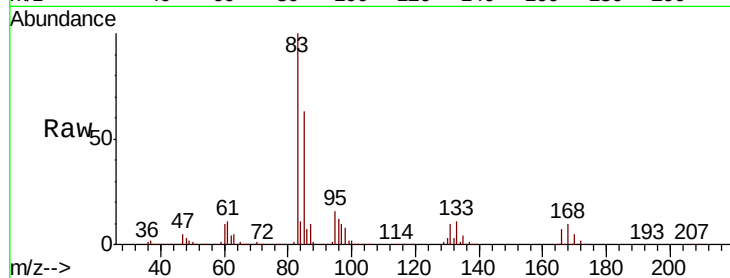
Tot Ion: 83 Resp: 336535

Ion Ratio Lower Upper

83 100

85 63.3 45.3 84.1

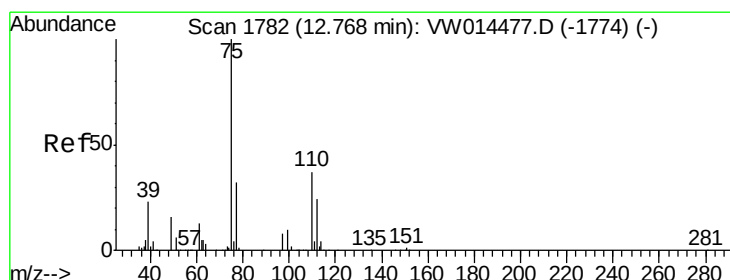
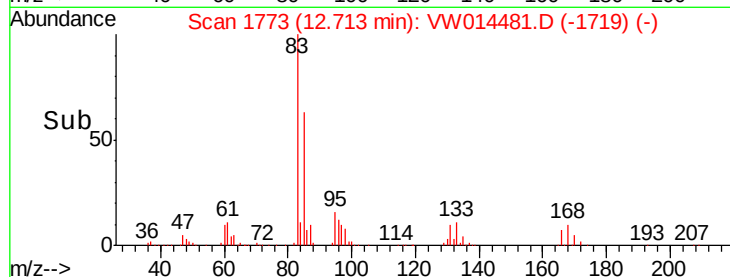
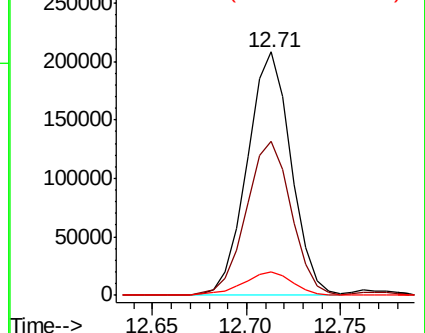
131 9.8 8.0 12.0



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: 24.038 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014481.D

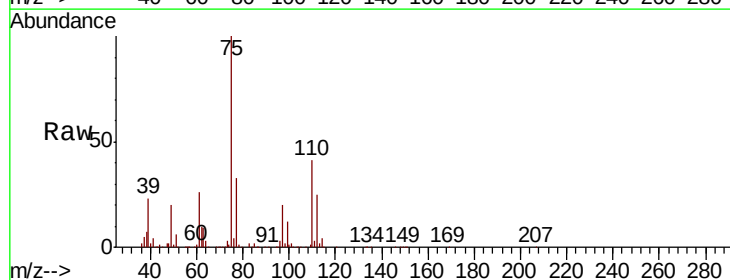
Acq: 27 Dec 2019 22:05

Tgt Ion: 75 Resp: 251153

Ion Ratio Lower Upper

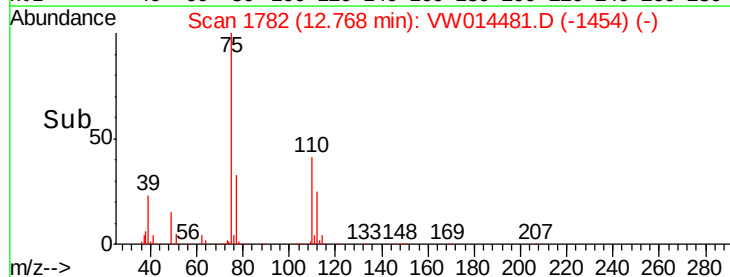
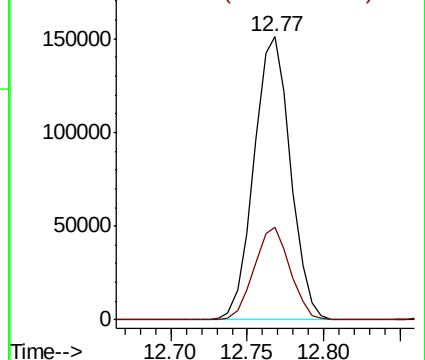
75 100

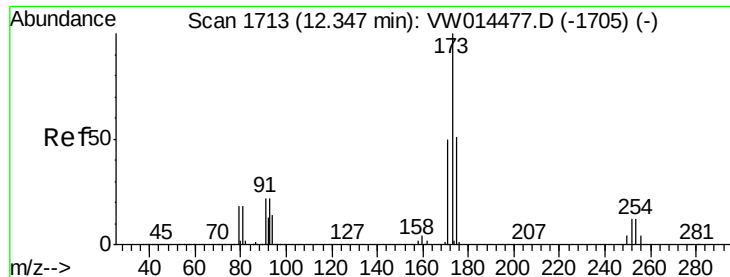
77 32.2 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#62

Bromoform

Concen: 24.511 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

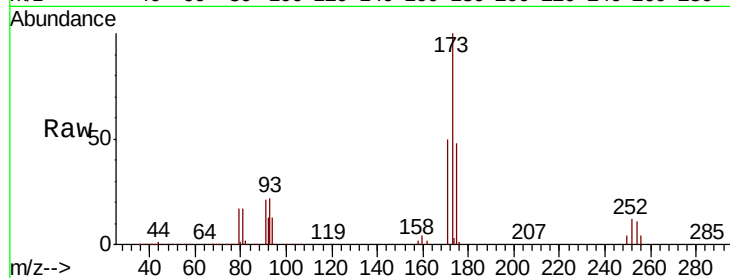
Tot Ion:173 Resp: 187969

Ion Ratio Lower Upper

173 100

175 48.6 40.5 60.7

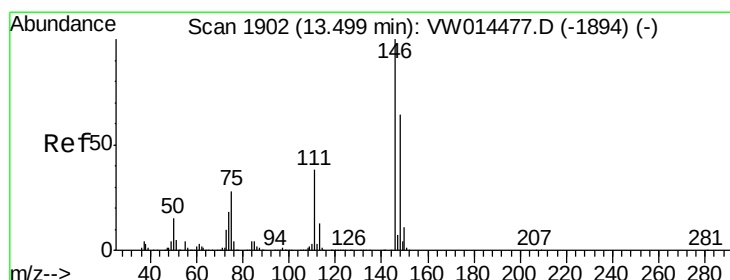
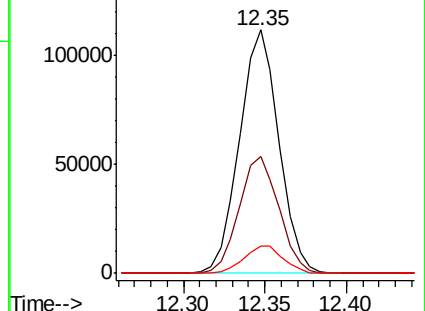
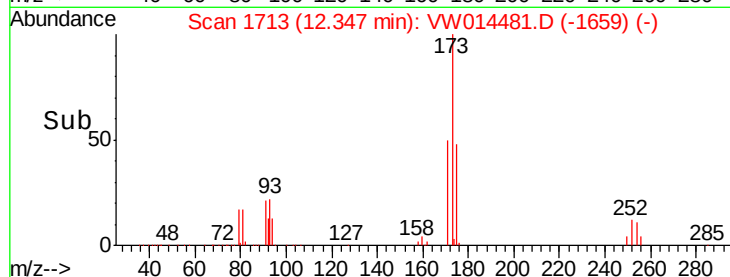
254 11.4 9.3 13.9



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 24.543 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

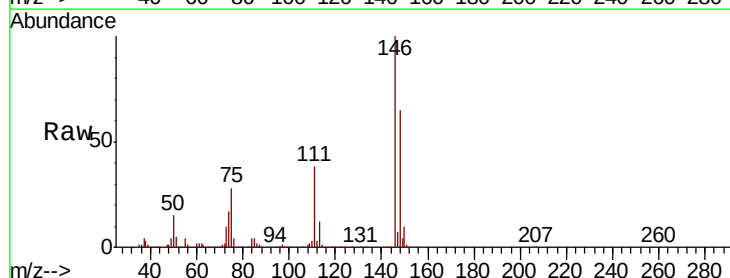
Tgt Ion:146 Resp: 797438

Ion Ratio Lower Upper

146 100

111 38.1 26.9 50.1

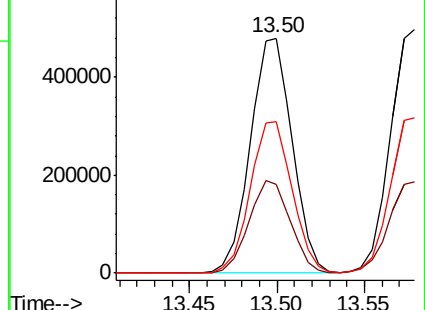
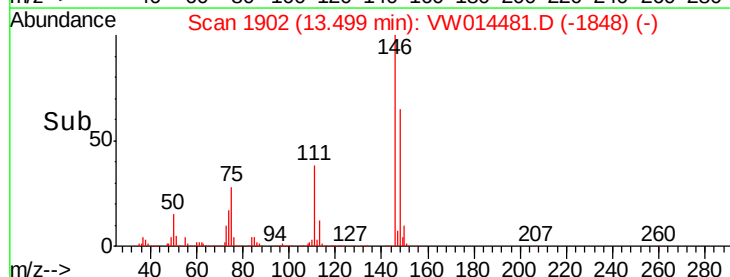
148 64.6 45.1 83.7

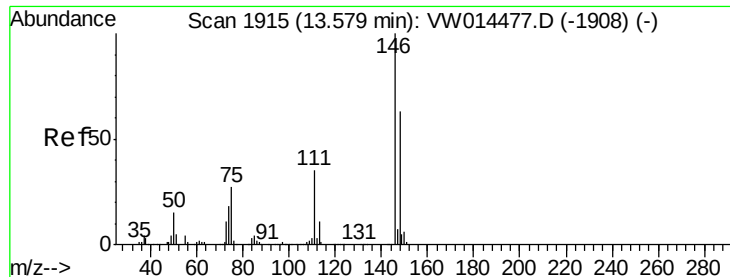


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 24.346 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

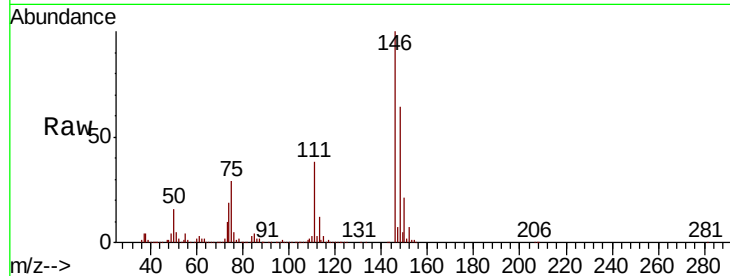
Tot Ion:146 Resp: 797603

Ion Ratio Lower Upper

146 100

111 37.7 24.5 45.5

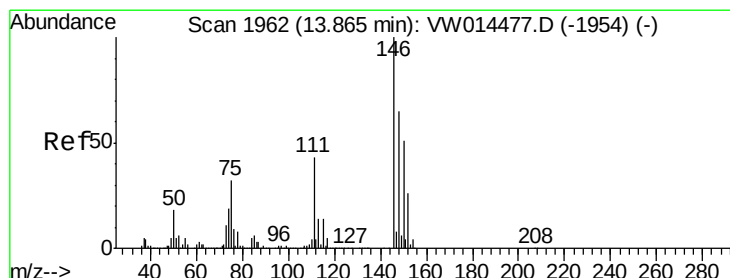
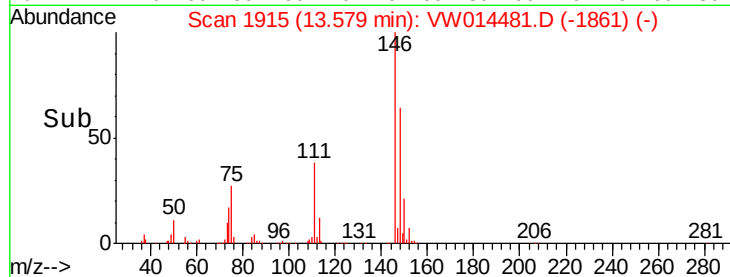
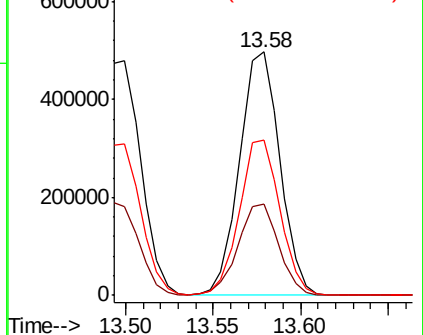
148 64.0 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 24.835 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

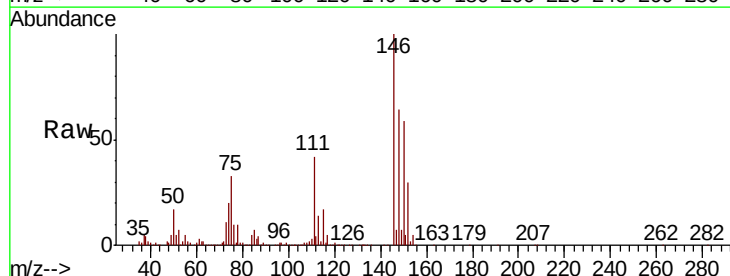
Tgt Ion:146 Resp: 723370

Ion Ratio Lower Upper

146 100

111 41.7 34.2 51.2

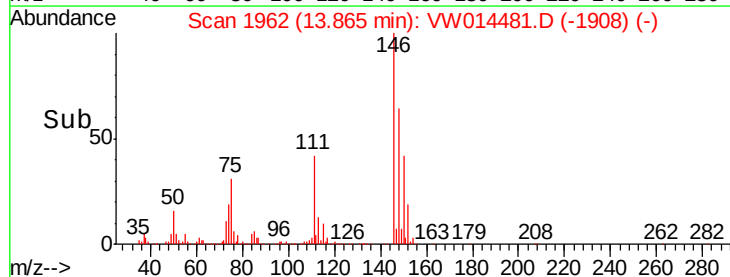
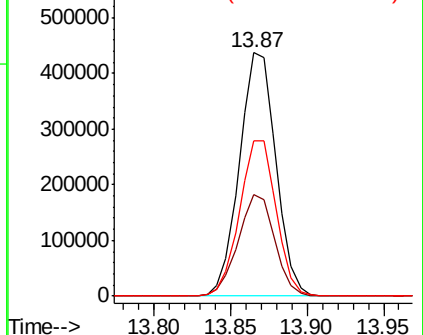
148 63.9 51.8 77.8

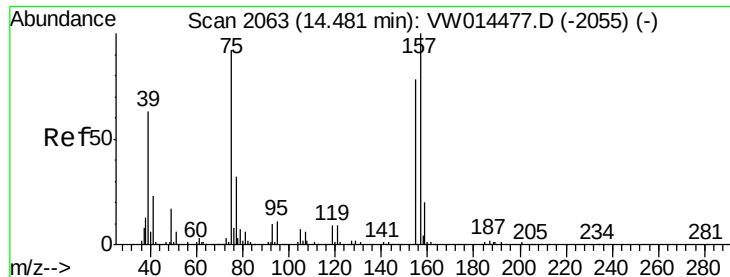


Abundance Ion 146.00 (145.70 to 146.70): V

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: 24.150 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

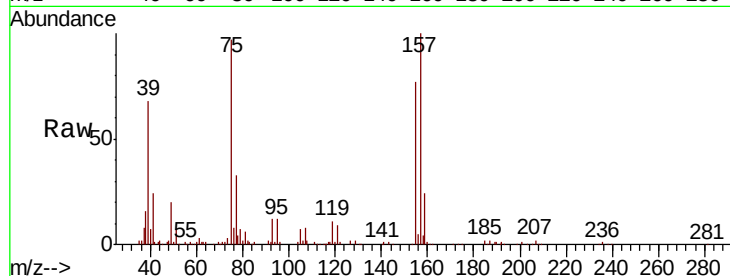
Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 75 Resp: 52089

Ion	Ratio	Lower	Upper
75	100		
157	102.9	87.2	130.8
155	79.0	67.8	101.8

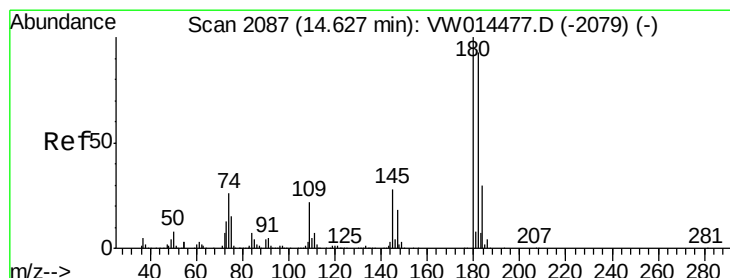
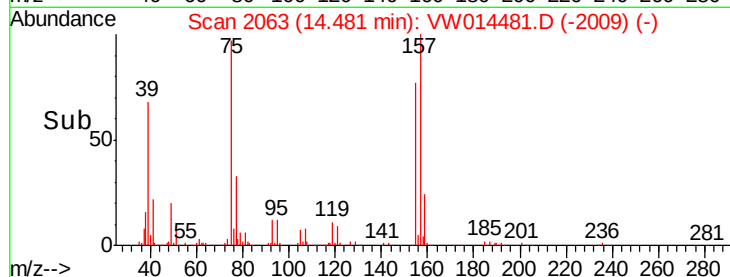
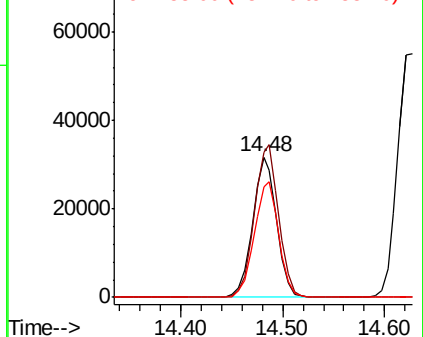


Abundance

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: 24.119 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Tgt Ion: 180 Resp: 580514

Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.8	113.6
184	30.4	24.0	36.0
145	28.5	22.6	33.8

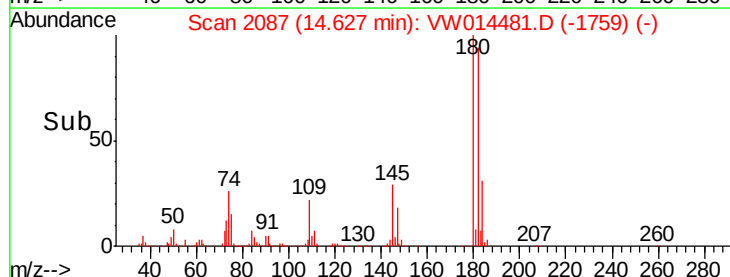
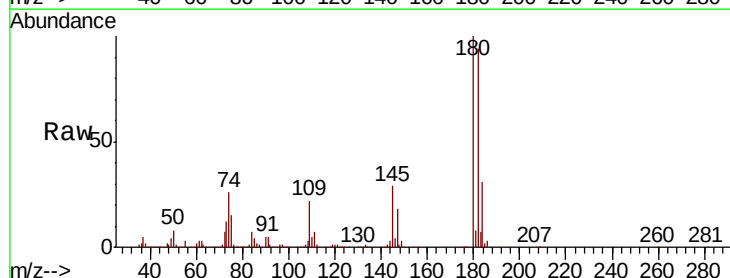
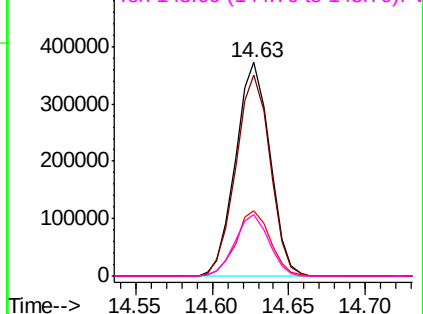
Abundance

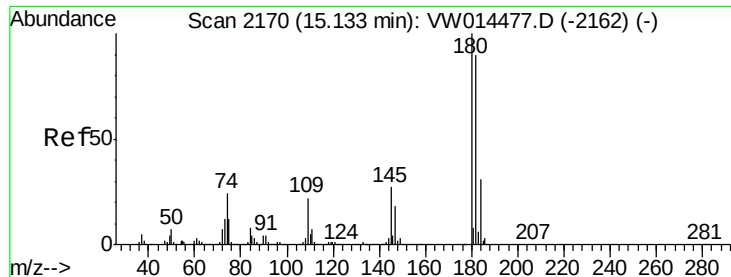
Ion 180.00 (179.70 to 180.70): V

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: 25.225 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

Instrument :

MSVOA_W

ClientSampleId :

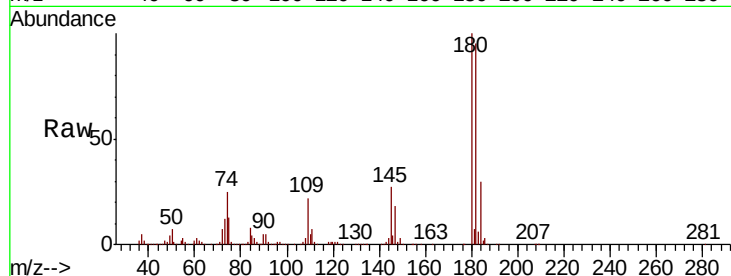
Tot Ion:180 Resp: 455117

Ion Ratio Lower Upper

180 100

182 96.7 76.2 114.4

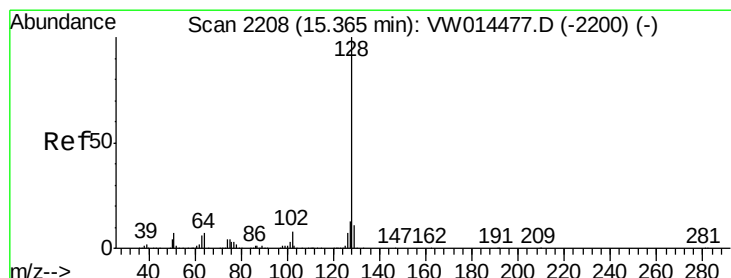
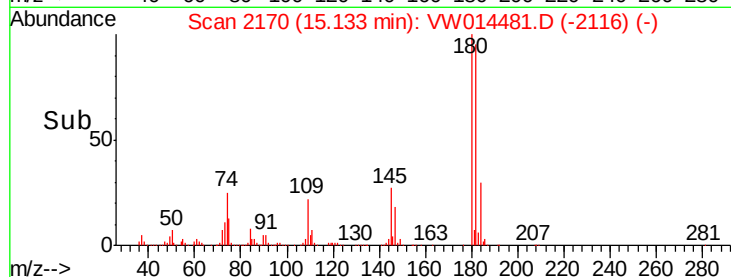
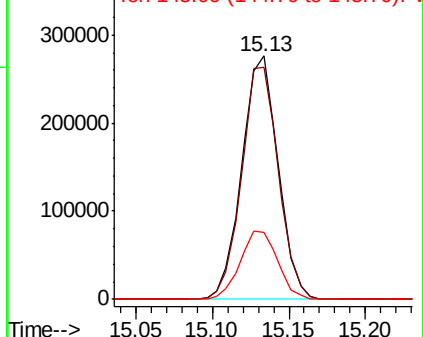
145 28.9 23.1 34.7



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: 27.087 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014481.D

Acq: 27 Dec 2019 22:05

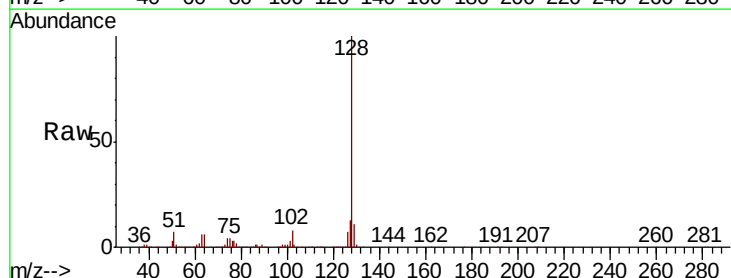
Tgt Ion:128 Resp: 843710

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

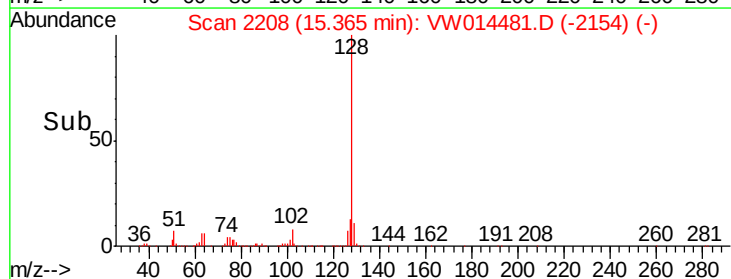
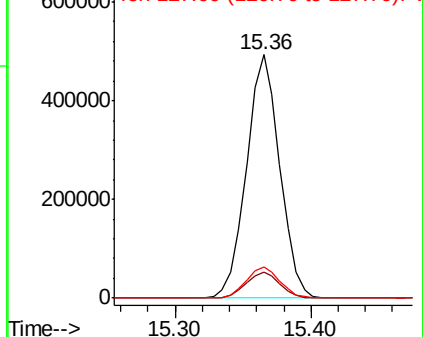
127 12.8 10.6 16.0

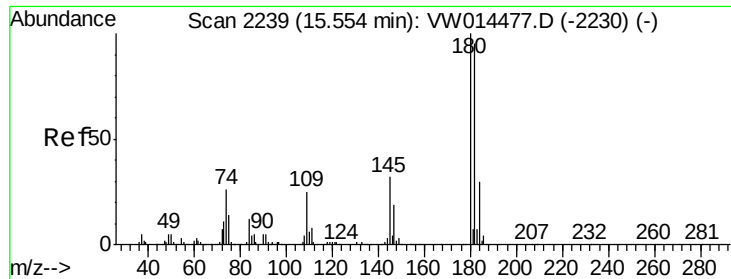


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

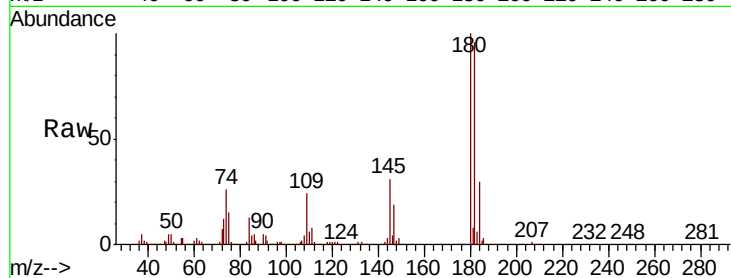




#70
 1,2,3-Trichlorobenzene
 Concen: 25.458 ug/L
 RT: 15.55 min Scan# 2239
 Delta R.T. 0.00 min
 Lab File: VW014481.D
 Acq: 27 Dec 2019 22:05

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.0	115.6
145	31.0	24.9	37.3



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

