

Data File : VW014258.D
Acq On : 06 Dec 2019 19:02
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

Quant Time: Dec 07 04:14:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Sat Dec 07 04:10:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1185602	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1083451	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	542651	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	437949	24.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.56%
7) Chloroethane-d5	2.89	69	342039	25.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.48%
10) 1,1-Dichloroethene-d2	4.02	63	797375	25.15	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.60%
20) 2-Butanone-d5	7.07	46	259904	55.55	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.10%
24) Chloroform-d	7.65	84	794764	26.33	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.32%
26) 1,2-Dichloroethane-d4	8.30	65	421220	26.61	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.44%
29) Benzene-d6	8.27	84	1663362	26.20	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.80%
33) 1,2-Dichloropropane-d6	9.27	67	515128	26.37	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.48%
37) Toluene-d8	10.32	98	1504227	26.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.80%
38) trans-1,3-Dichloropropene-	10.57	79	214434	26.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.64%
39) 2-Hexanone-d5	10.92	63	216419	55.71	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.42%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	427538	26.86	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	107.44%
61) 1,2-Dichlorobenzene-d4	13.85	152	519232	25.04	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	269491	23.899 ug/L	100
3) Chloromethane	2.21	50	252980	22.316 ug/L	99
5) Vinyl chloride	2.36	62	422877	25.194 ug/L	94
6) Bromomethane	2.78	94	259032	25.020 ug/L	99
8) Chloroethane	2.92	64	244985	25.548 ug/L	93
9) Trichlorofluoromethane	3.25	101	203234	24.459 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	392908	25.125 ug/L	95
12) 1,1-Dichloroethene	4.04	96	391894	24.753 ug/L	94
13) Acetone	4.12	43	222384	49.301 ug/L	99
14) Carbon disulfide	4.38	76	1206416	24.845 ug/L	98
15) Methyl Acetate	4.66	43	212644	24.923 ug/L	98
16) Methylene chloride	4.92	84	443964	24.427 ug/L	98
17) Methyl tert-butyl Ether	5.42	73	506147	24.242 ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	413681	24.399 ug/L	94
19) 1,1-Dichloroethane	6.21	63	755946	24.816 ug/L	99
21) 2-Butanone	7.16	43	315103	52.032 ug/L	97
22) cis-1,2-Dichloroethene	7.16	96	449620	24.922 ug/L	99

Data File : VW014258.D
Acq On : 06 Dec 2019 19:02
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

Quant Time: Dec 07 04:14:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Sat Dec 07 04:10:05 2019
Response via : Initial Calibration

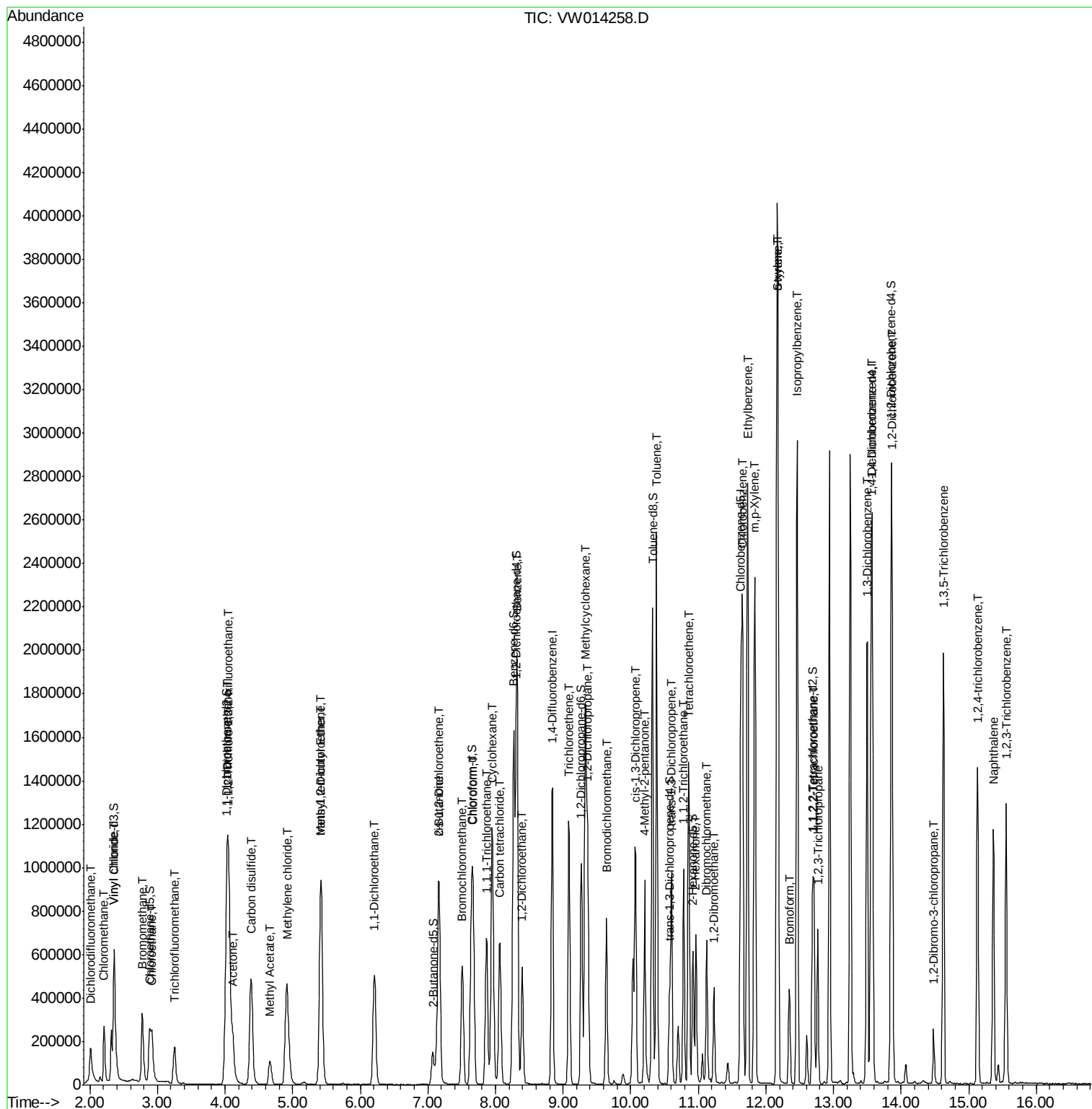
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	201457	24.276	ug/L	88
25) Chloroform	7.67	83	734900	24.827	ug/L	100
27) 1,2-Dichloroethane	8.40	62	482951	24.915	ug/L	96
30) Cyclohexane	7.95	56	699721	25.874	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	557241	25.610	ug/L	98
32) Carbon tetrachloride	8.07	117	517033	25.043	ug/L	99
34) Benzene	8.32	78	1728295	25.193	ug/L	100
35) Trichloroethene	9.09	95	429358	24.461	ug/L	96
36) Methylcyclohexane	9.33	83	737981	25.021	ug/L	97
40) 1,2-Dichloropropane	9.37	63	437237	24.809	ug/L	99
41) Bromodichloromethane	9.64	83	526640	24.588	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	666768	25.263	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	621176	53.450	ug/L	98
44) Toluene	10.38	91	1828813	25.428	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	533144	24.954	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	325754	24.666	ug/L	97
47) Tetrachloroethene	10.86	164	355087	24.272	ug/L	97
49) 2-Hexanone	10.96	43	434571	52.523	ug/L	97
50) Dibromochloromethane	11.12	129	362945	24.486	ug/L	100
51) 1,2-Dibromoethane	11.23	107	307407	24.574	ug/L #	93
52) Chlorobenzene	11.66	112	1131790	24.349	ug/L	95
53) Ethylbenzene	11.73	91	1998853	25.613	ug/L	98
54) m,p-Xylene	11.83	106	763270	25.425	ug/L	98
55) o-xylene	12.16	106	723496	25.409	ug/L	99
56) Styrene	12.18	104	1262646	25.921	ug/L	98
57) Isopropylbenzene	12.46	105	1888412	25.546	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	408962	24.949	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	302371	24.825	ug/L	99
62) Bromoform	12.35	173	213849	23.219	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	885288	24.272	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	888280	23.971	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	818260	24.125	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	62958	24.062	ug/L	86
67) 1,3,5-Trichlorobenzene	14.63	180	632520	24.104	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	510101	24.935	ug/L	99
69) Naphthalene	15.36	128	994990	25.864	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	472778	24.644	ug/L	99

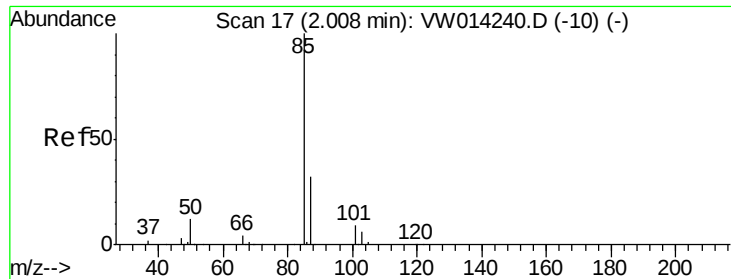
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VW014258.D
Acq On : 06 Dec 2019 19:02
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
Client Sampled :
VSTD02509

Quant Time: Dec 07 04:14:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Sat Dec 07 04:10:05 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.899 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

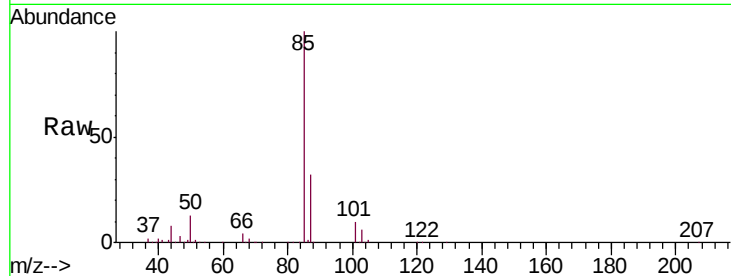
VSTD02509

Tgt Ion: 85 Resp: 269491

Ion Ratio Lower Upper

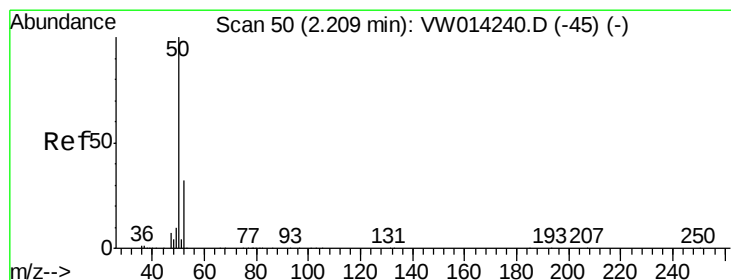
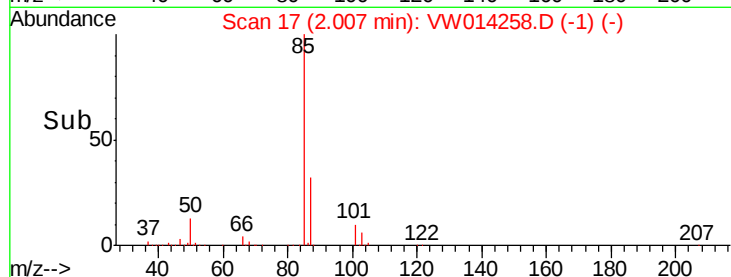
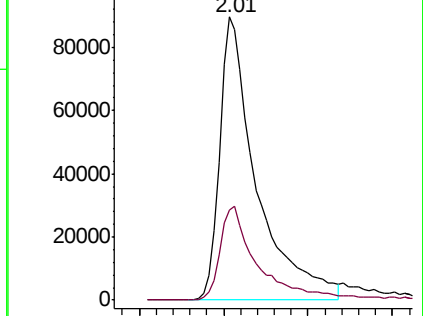
85 100

87 31.6 22.1 41.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 22.316 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW014258.D

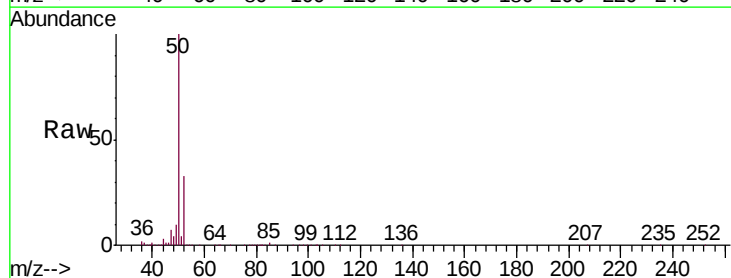
Acq: 06 Dec 2019 19:02

Tgt Ion: 50 Resp: 252980

Ion Ratio Lower Upper

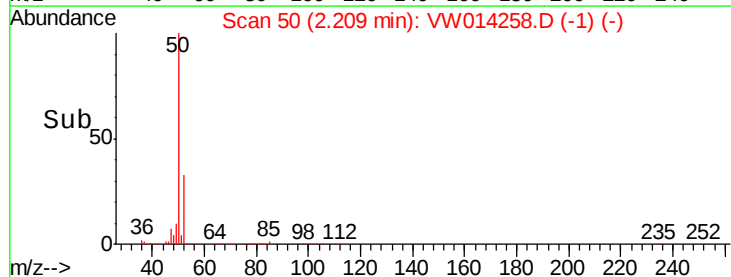
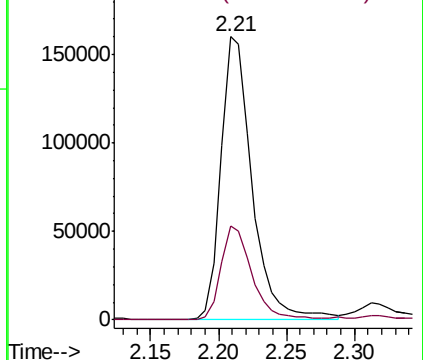
50 100

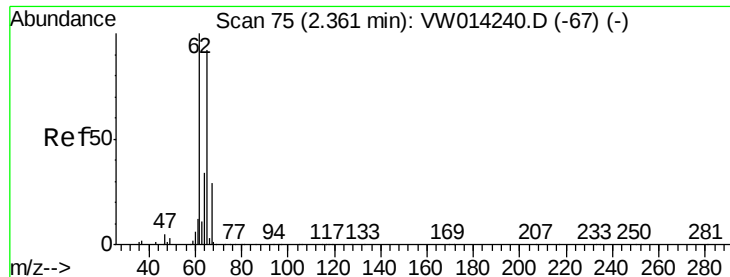
52 33.3 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 25.194 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

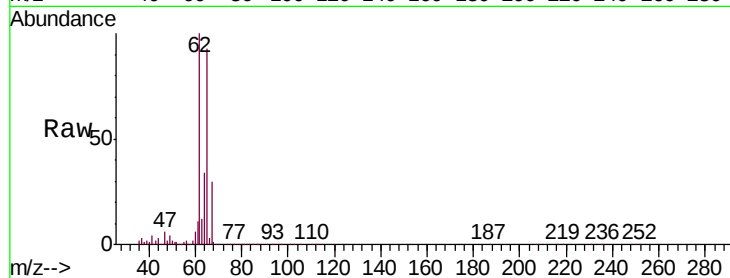
VSTD02509

Tgt Ion: 62 Resp: 422877

Ion Ratio Lower Upper

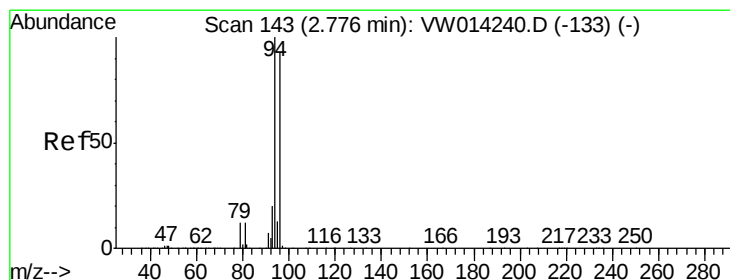
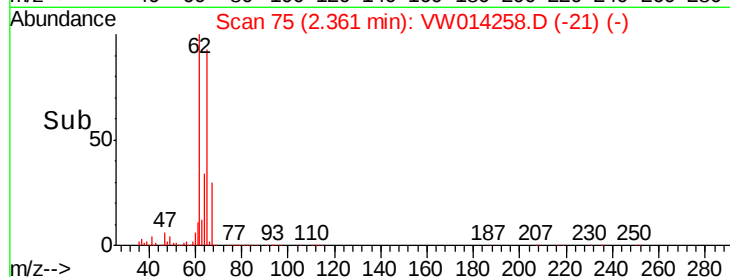
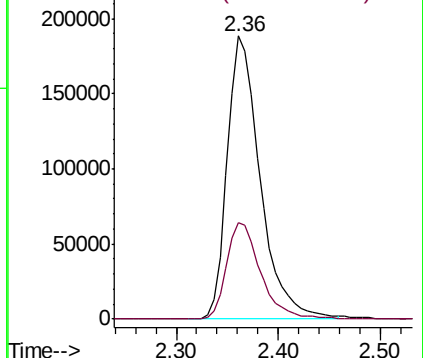
62 100

64 34.3 21.8 40.4



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 25.020 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014258.D

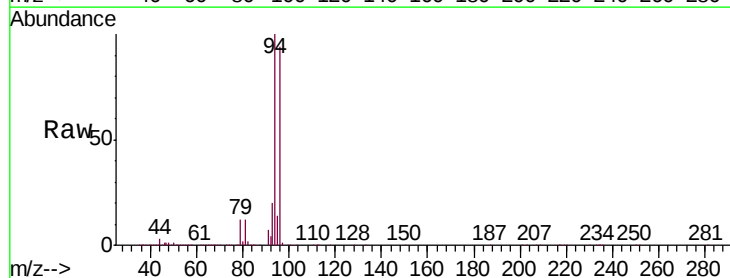
Acq: 06 Dec 2019 19:02

Tgt Ion: 94 Resp: 259032

Ion Ratio Lower Upper

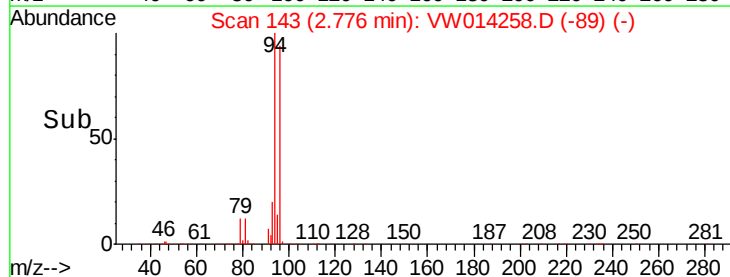
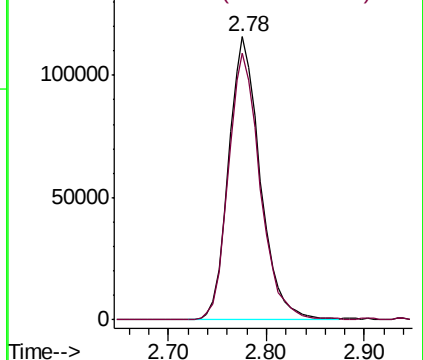
94 100

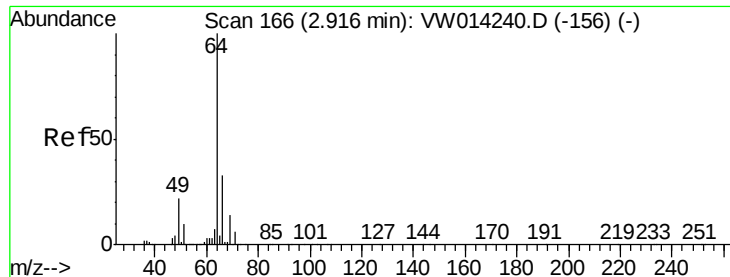
96 94.7 9.4 178.8



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

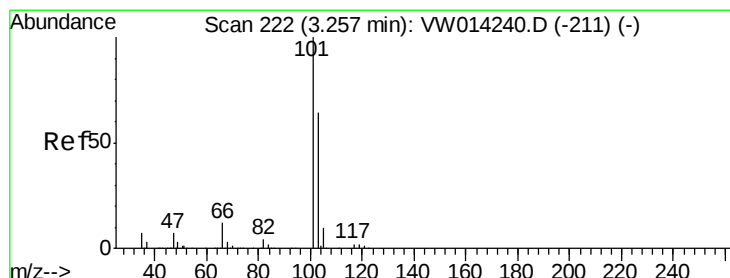
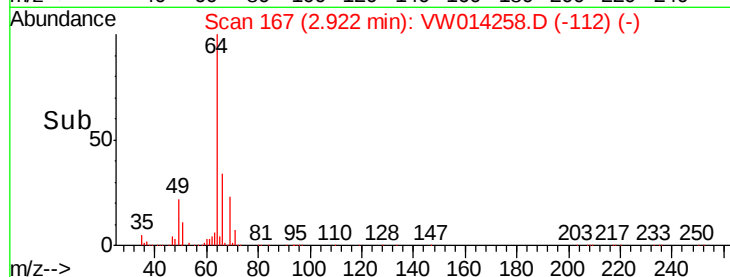
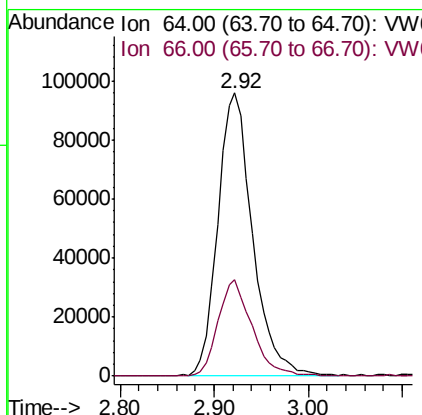
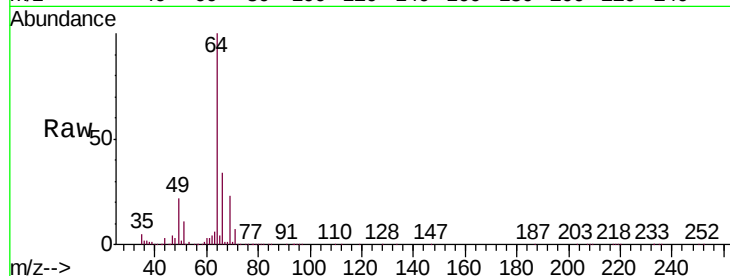




#8
Chloroethane
Concen: 25.548 ug/L
RT: 2.92 min Scan# 167
Delta R.T. 0.01 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

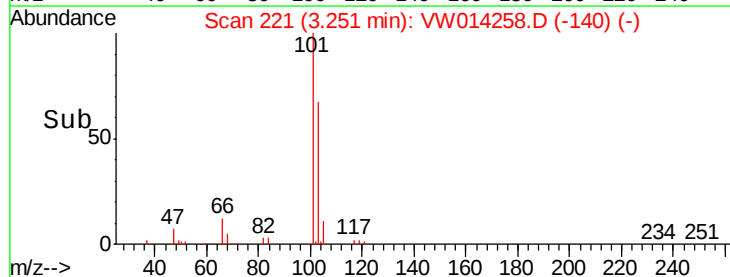
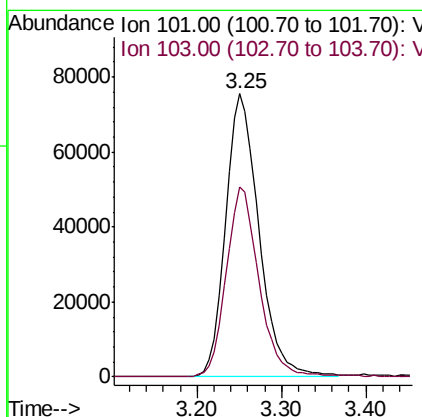
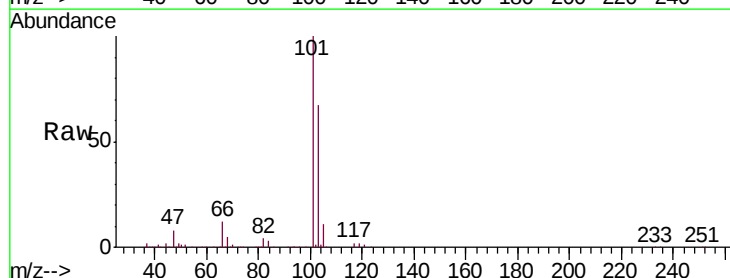
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

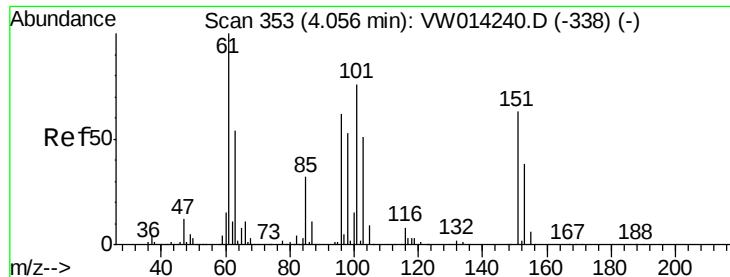
Tgt Ion: 64 Resp: 244985
Ion Ratio Lower Upper
64 100
66 34.0 21.2 39.4



#9
Trichlorofluoromethane
Concen: 24.459 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Tgt Ion: 101 Resp: 203234
Ion Ratio Lower Upper
101 100
103 65.1 45.4 84.2





#11

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

Concen: 25.125 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

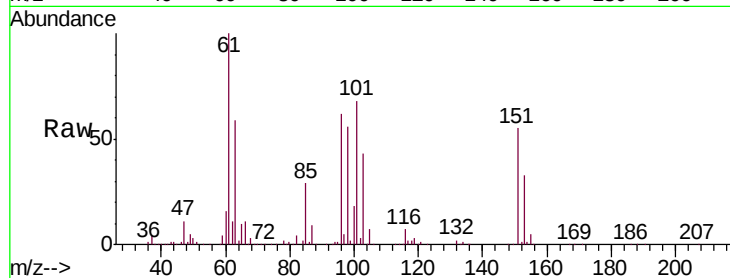
Tgt Ion:101 Resp: 392908

Ion Ratio Lower Upper

101 100

85 41.8 31.4 47.2

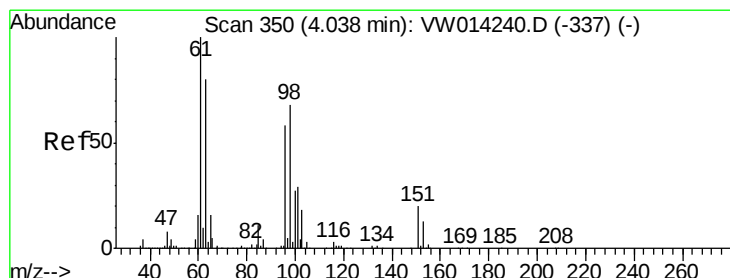
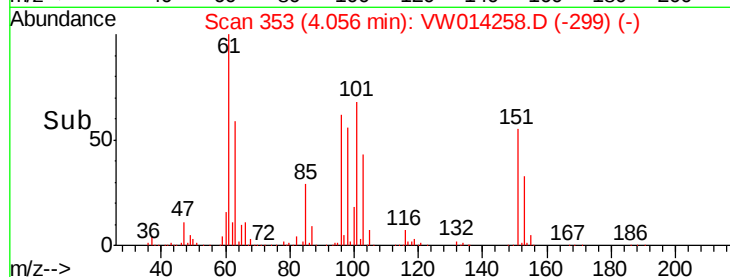
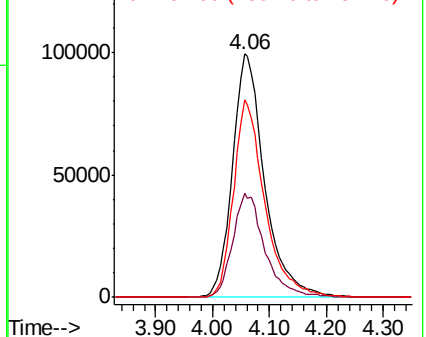
151 78.8 66.9 100.3



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: 24.753 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

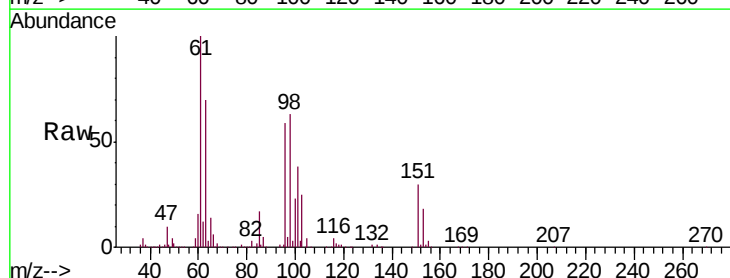
Tgt Ion: 96 Resp: 391894

Ion Ratio Lower Upper

96 100

61 168.2 109.8 204.0

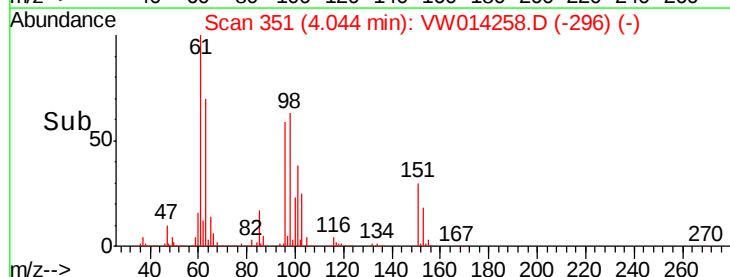
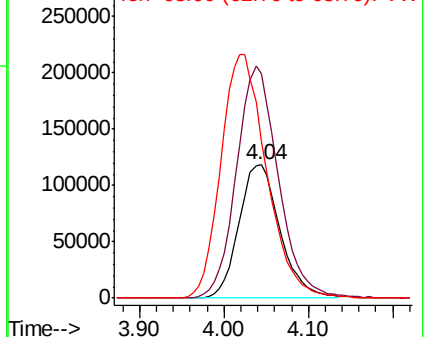
63 117.8 80.7 149.9

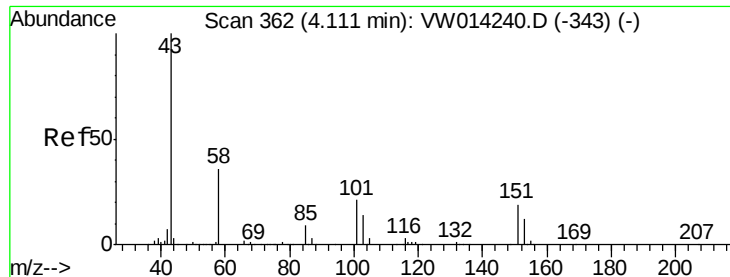


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 49.301 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.01 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

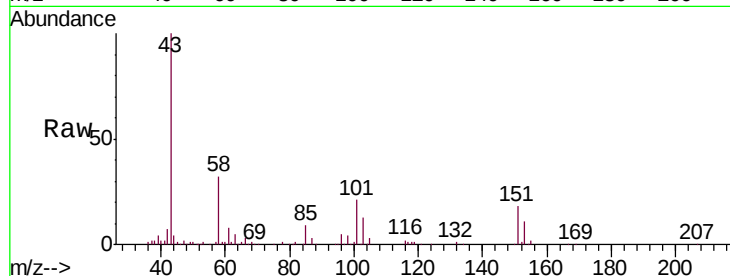
VSTD02509

Tgt Ion: 43 Resp: 222384

Ion Ratio Lower Upper

43 100

58 33.5 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

80000

60000

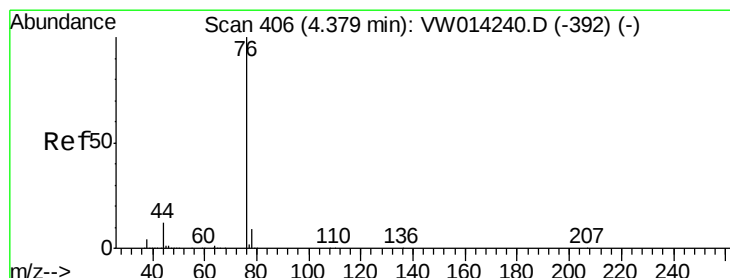
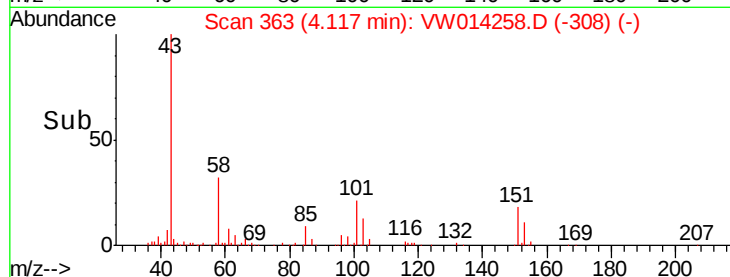
40000

20000

0

Time-->

4.00 4.10 4.20



#14

Carbon disulfide

Concen: 24.845 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014258.D

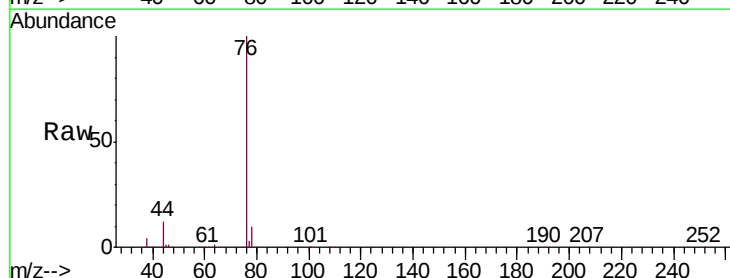
Acq: 06 Dec 2019 19:02

Tgt Ion: 76 Resp: 1206416

Ion Ratio Lower Upper

76 100

78 9.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

400000

300000

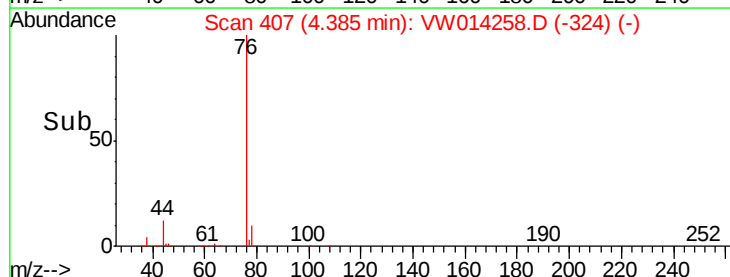
200000

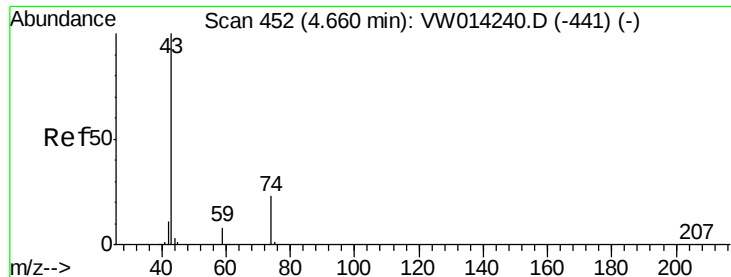
100000

0

Time-->

4.20 4.30 4.40 4.50 4.60

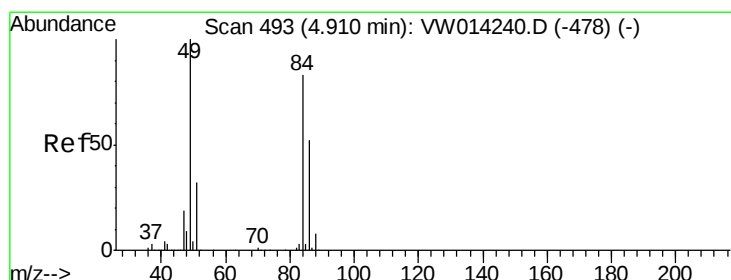
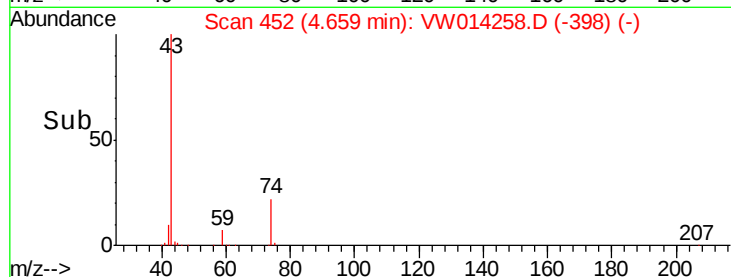
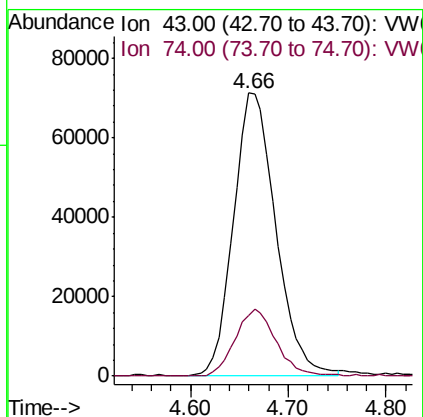
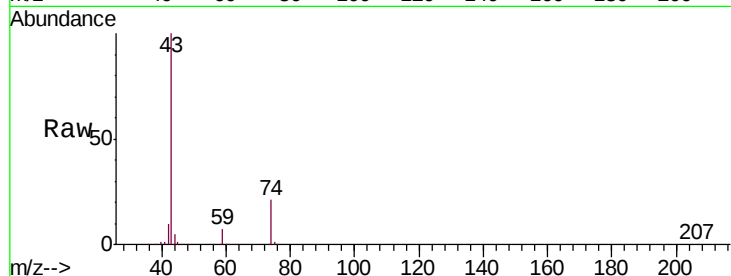




#15
Methyl Acetate
Concen: 24.923 ug/L
RT: 4.66 min Scan# 452
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

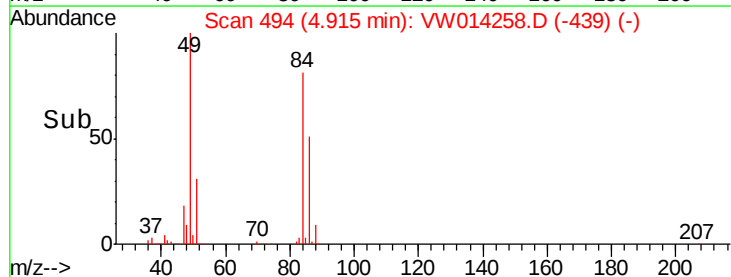
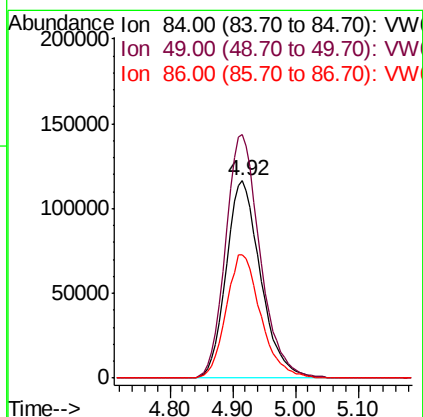
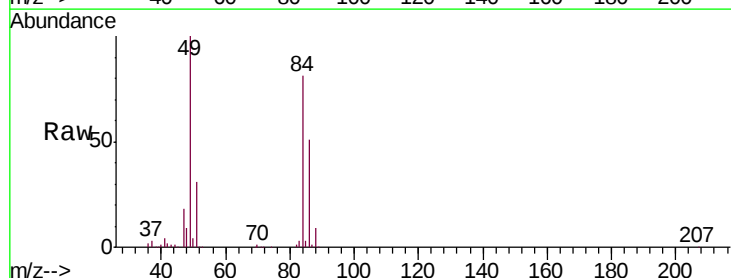
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

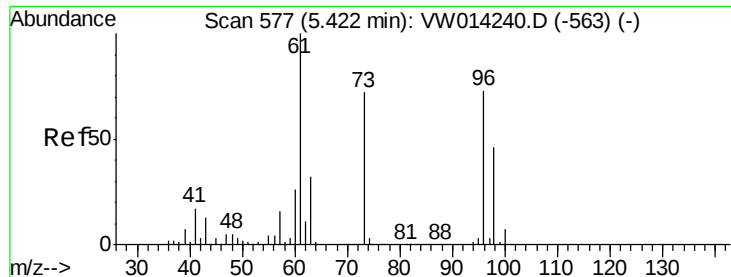
Tgt Ion: 43 Resp: 212644
Ion Ratio Lower Upper
43 100
74 23.1 19.3 28.9



#16
Methylene chloride
Concen: 24.427 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Tgt Ion: 84 Resp: 443964
Ion Ratio Lower Upper
84 100
49 123.4 84.2 156.4
86 62.7 43.7 81.1

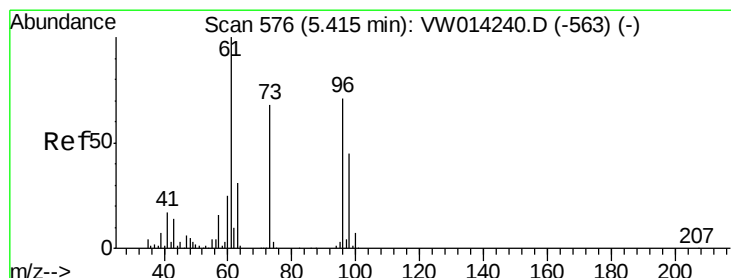
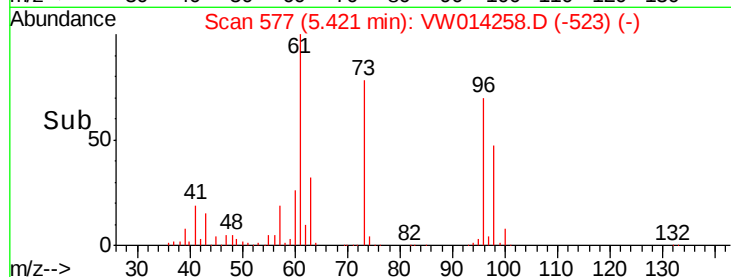
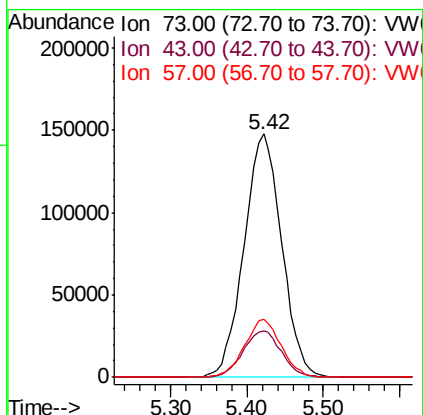
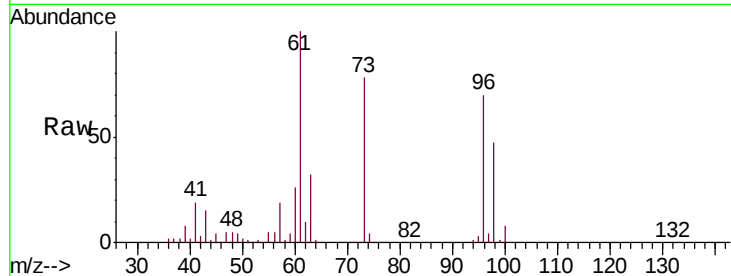




#17
Methyl tert-butyl Ether
Concen: 24.242 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

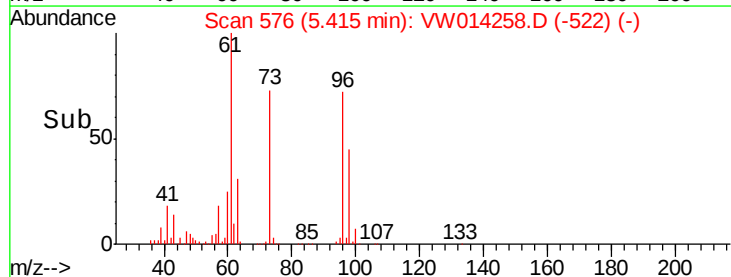
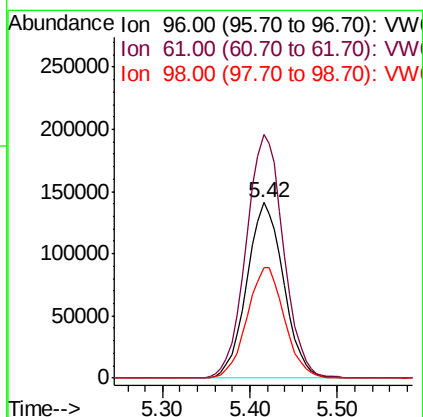
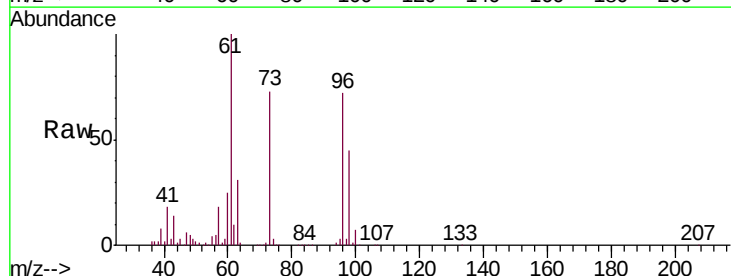
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

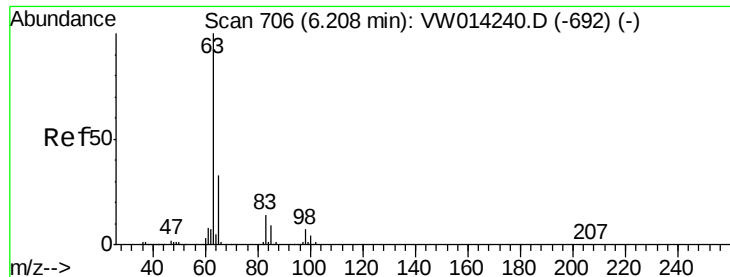
Tgt Ion: 73 Resp: 506147
Ion Ratio Lower Upper
73 100
43 19.5 15.5 23.3
57 23.1 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 24.399 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Tgt Ion: 96 Resp: 413681
Ion Ratio Lower Upper
96 100
61 138.9 90.6 168.2
98 62.9 42.9 79.7





#19

1,1-Dichloroethane

Concen: 24.816 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

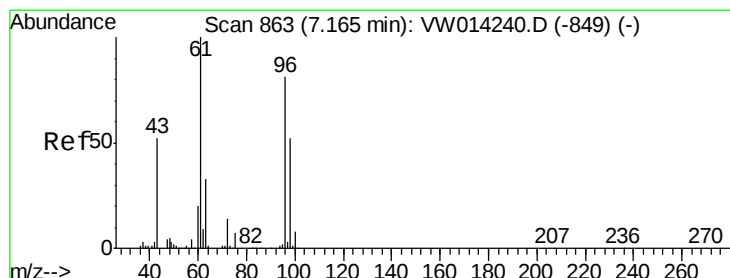
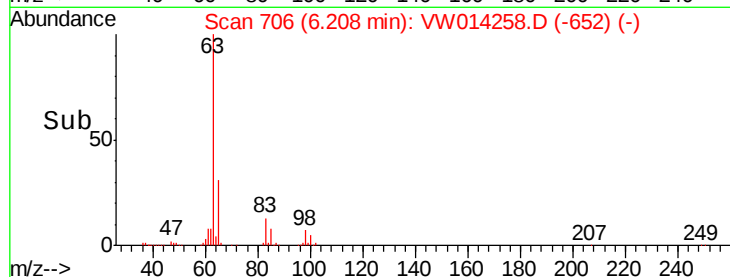
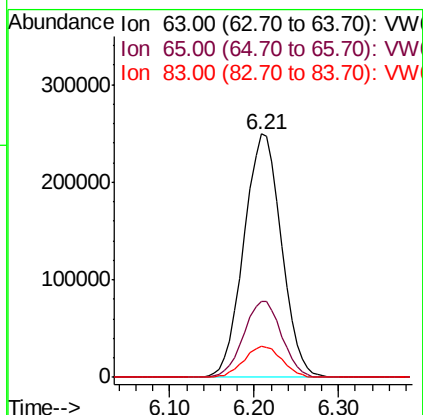
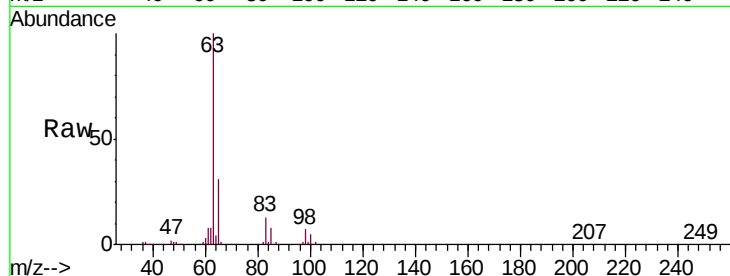
Tgt Ion: 63 Resp: 755946

Ion Ratio Lower Upper

63 100

65 31.2 22.1 41.1

83 12.6 9.0 16.6



#21

2-Butanone

Concen: 52.032 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014258.D

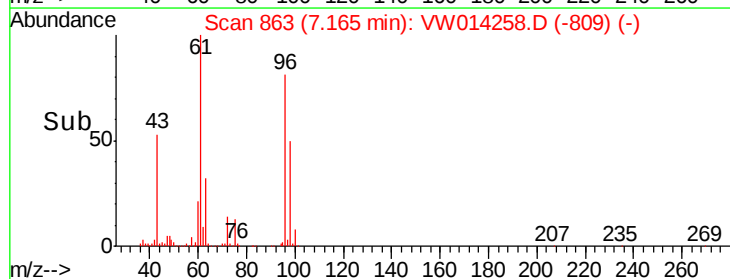
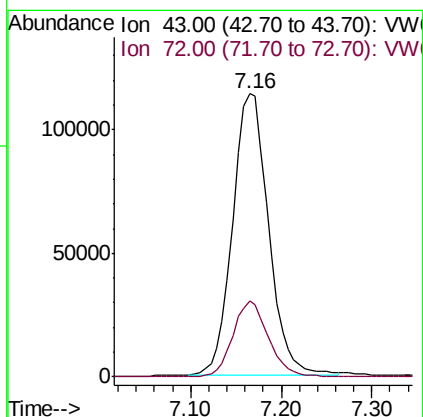
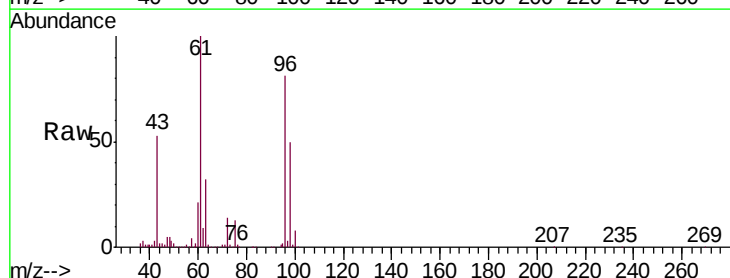
Acq: 06 Dec 2019 19:02

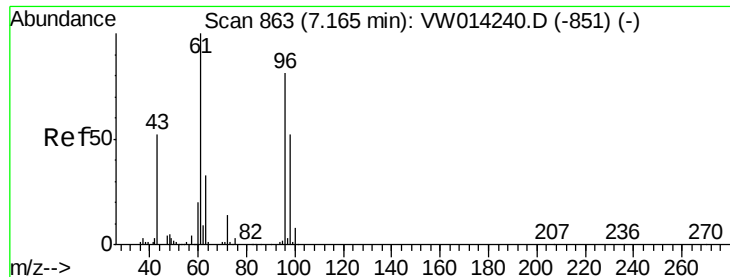
Tgt Ion: 43 Resp: 315103

Ion Ratio Lower Upper

43 100

72 26.6 14.1 42.2



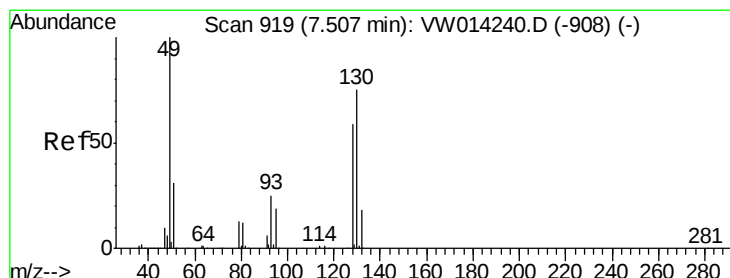
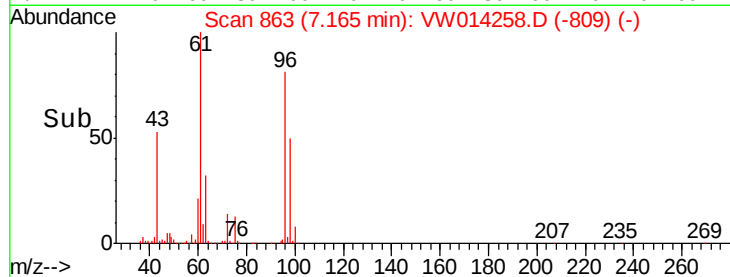
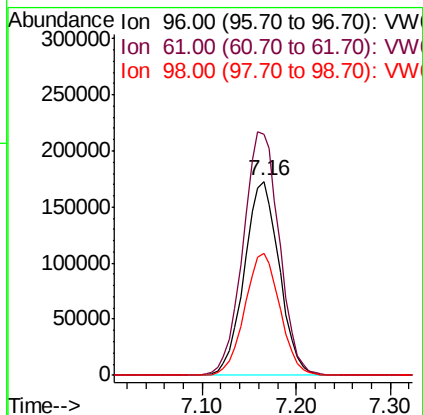
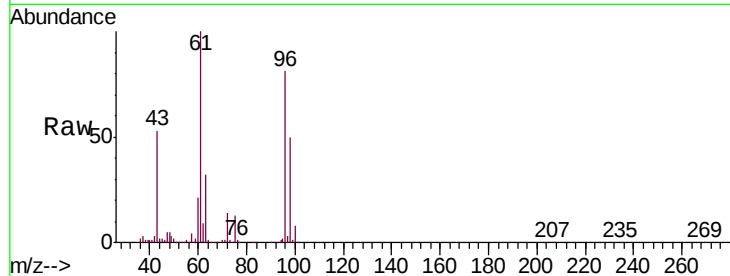


#22

cis-1,2-Dichloroethene
Concen: 24.922 ug/L
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

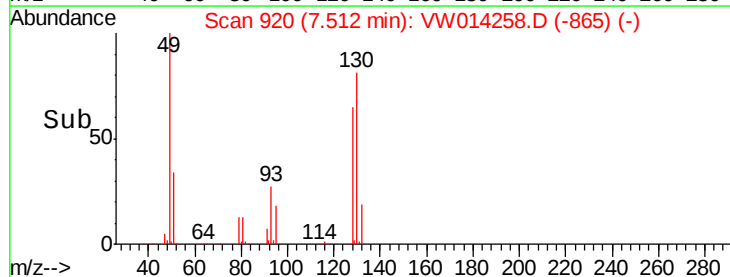
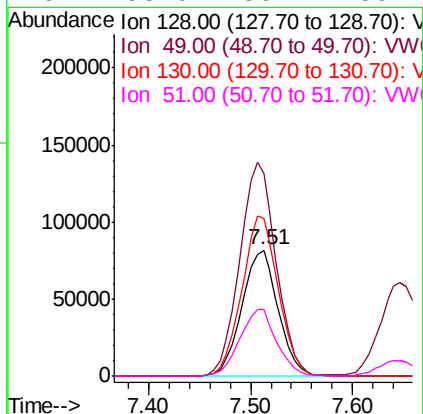
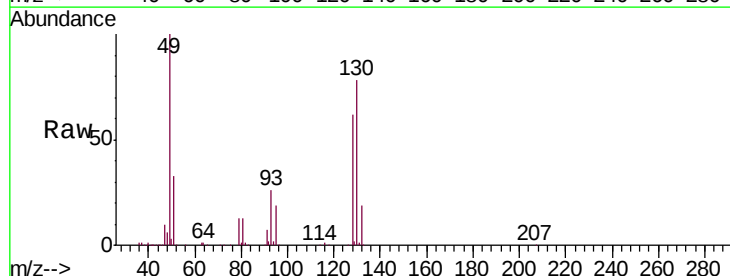
Tgt Ion: 96 Resp: 449620
Ion Ratio Lower Upper
96 100
61 124.2 86.9 161.5
98 62.6 45.5 84.5

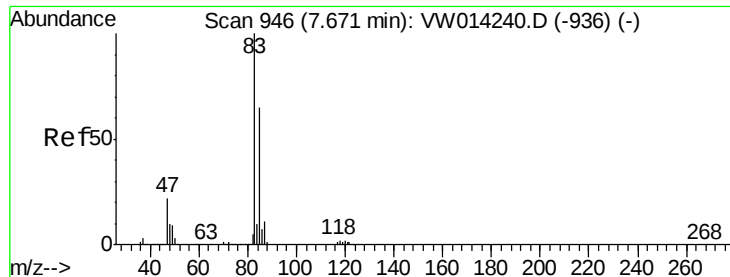


#23

Bromochloromethane
Concen: 24.276 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Tgt Ion: 128 Resp: 201457
Ion Ratio Lower Upper
128 100
49 160.6 95.1 176.5
130 125.3 85.0 158.0
51 53.0 36.7 55.1





#25

Chloroform

Concen: 24.827 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

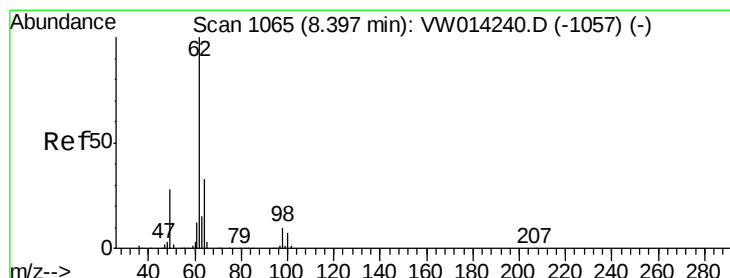
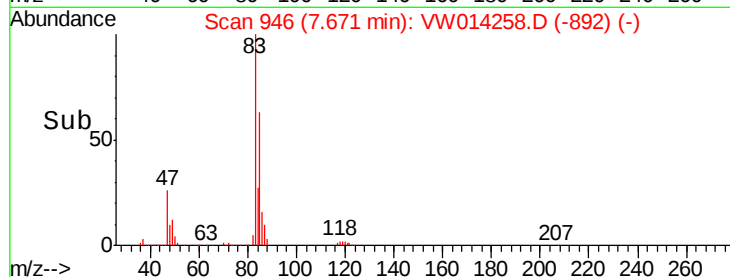
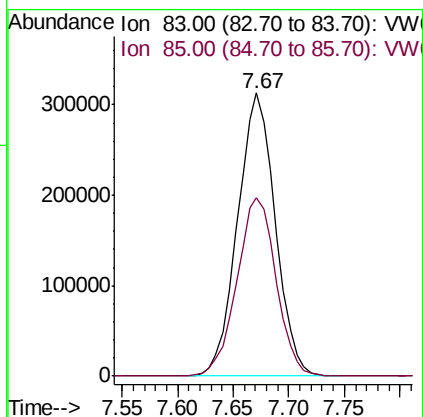
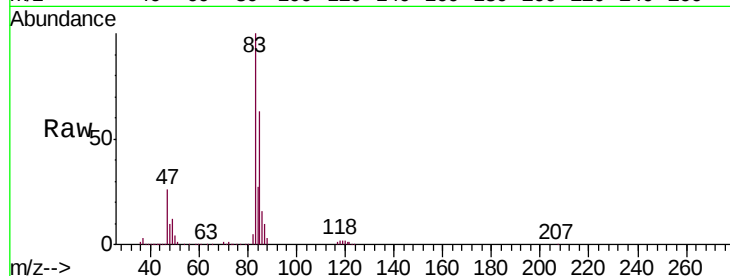
VSTD02509

Tgt Ion: 83 Resp: 734900

Ion Ratio Lower Upper

83 100

85 65.9 46.1 85.7



#27

1,2-Dichloroethane

Concen: 24.915 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014258.D

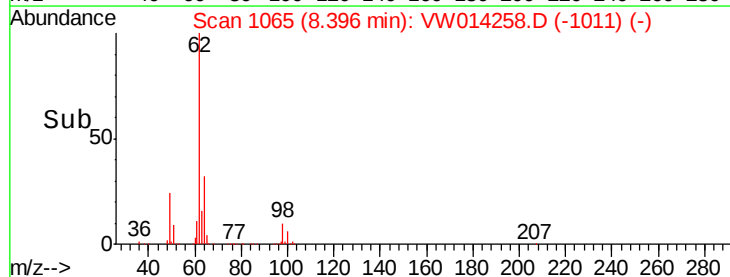
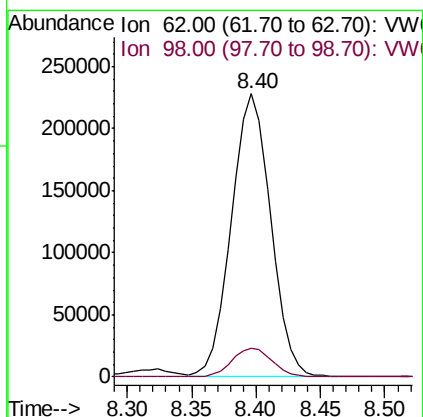
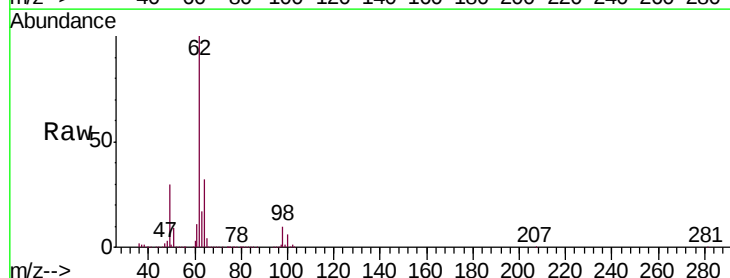
Acq: 06 Dec 2019 19:02

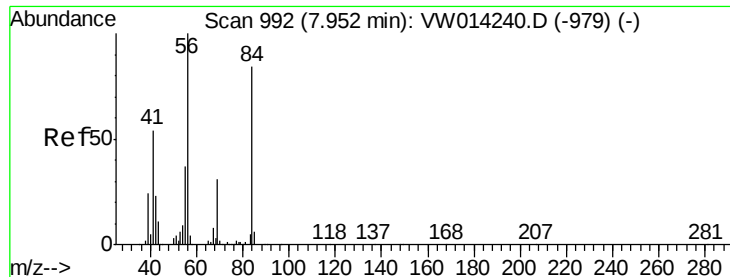
Tgt Ion: 62 Resp: 482951

Ion Ratio Lower Upper

62 100

98 10.2 9.3 13.9

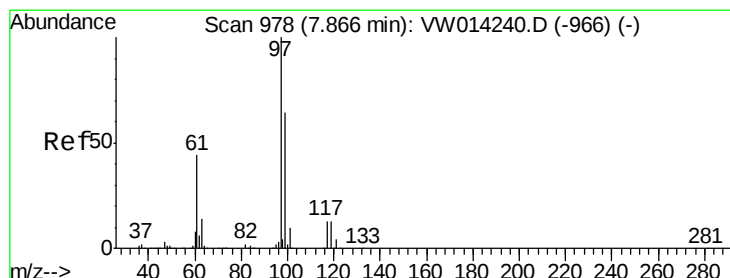
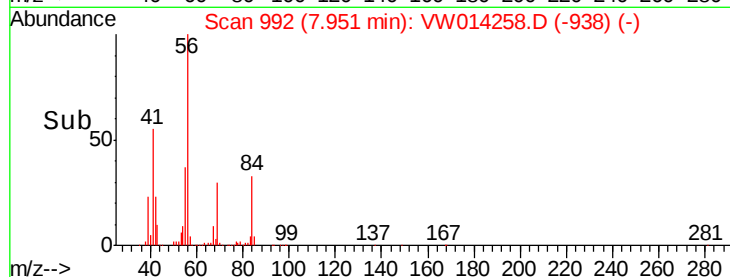
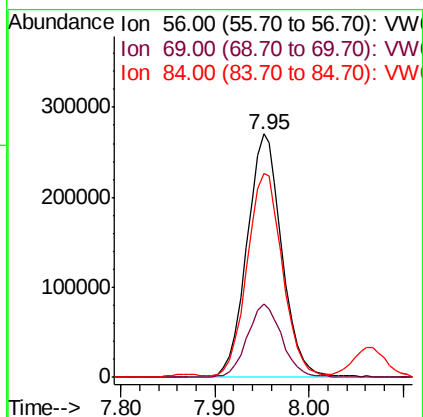
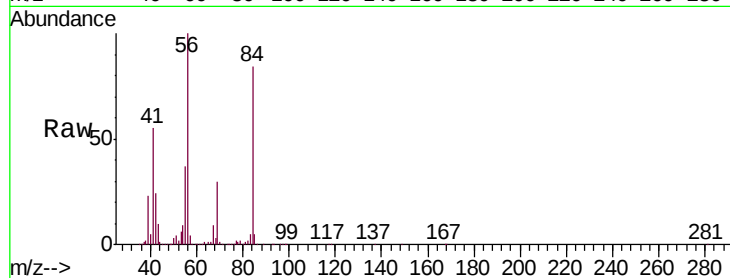




#30
Cyclohexane
Concen: 25.874 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

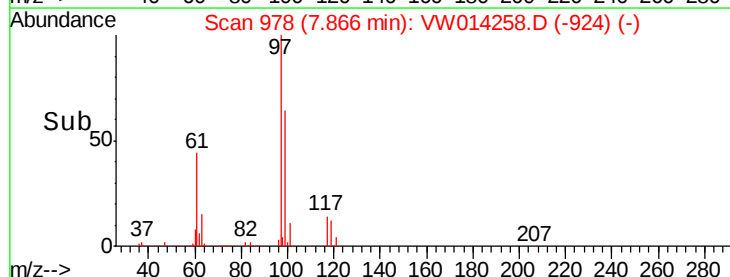
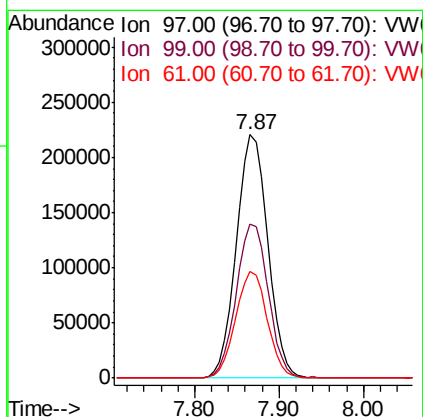
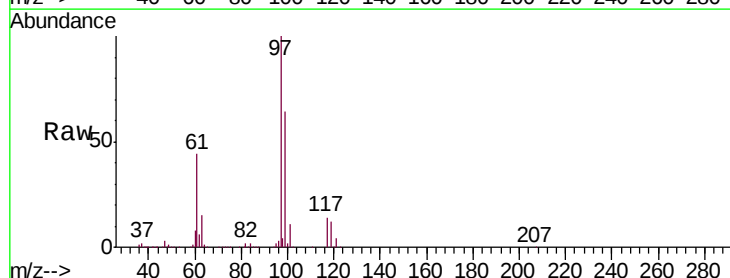
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

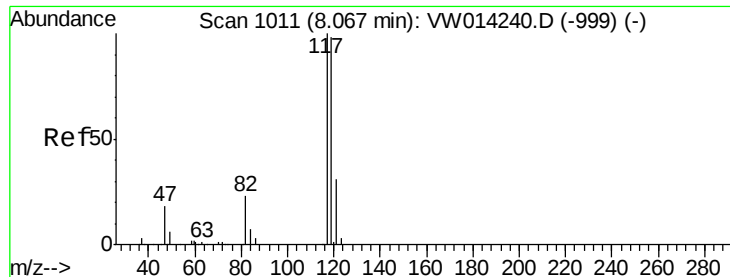
Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.1	24.6	37.0
84	85.4	70.2	105.2



#31
1,1,1-Trichloroethane
Concen: 25.610 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	44.1	32.8	49.2





#32

Carbon tetrachloride

Concen: 25.043 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

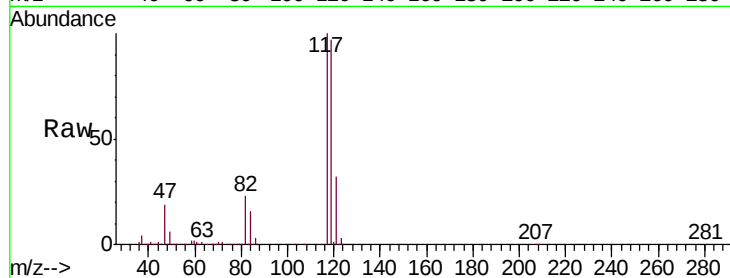
VSTD02509

Tgt Ion:117 Resp: 517033

Ion Ratio Lower Upper

117 100

119 95.1 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

200000

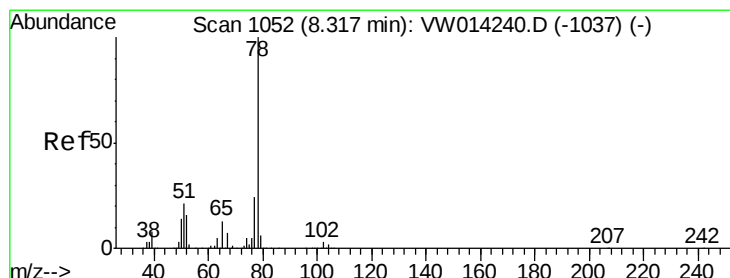
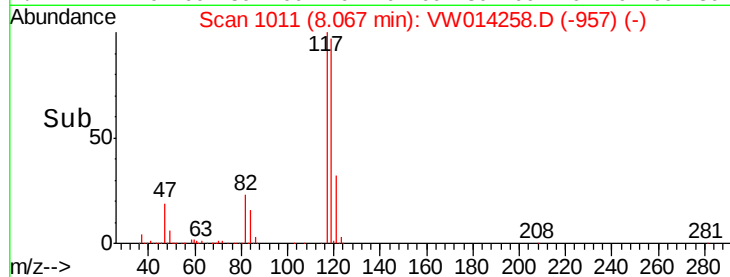
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 25.193 ug/L

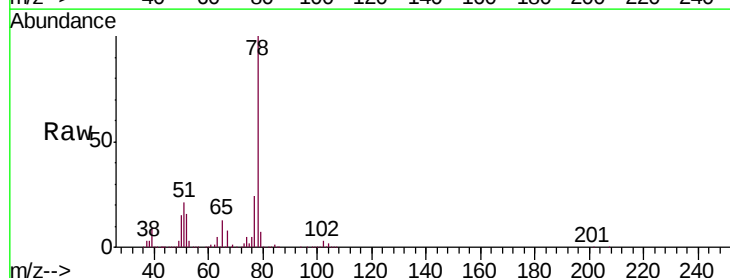
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Tgt Ion: 78 Resp: 1728295



Abundance Ion 78.00 (77.70 to 78.70): VW

800000

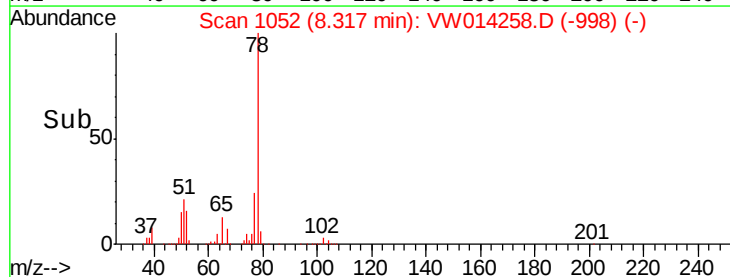
600000

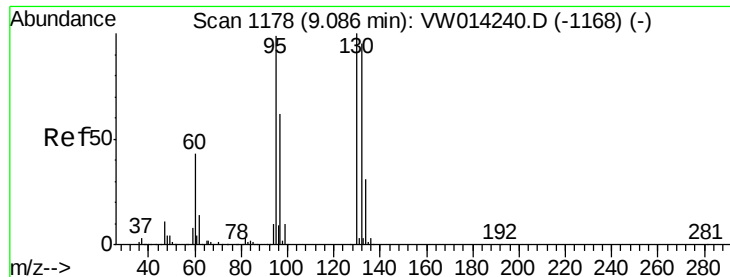
400000

200000

0

Time-->

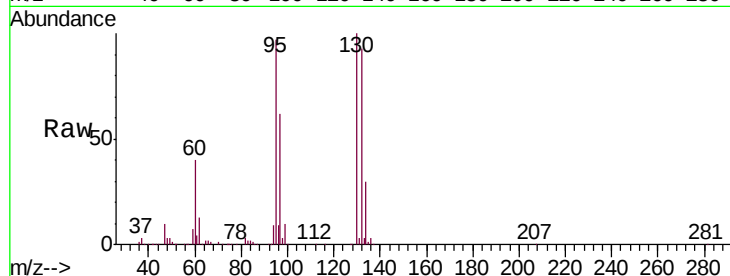




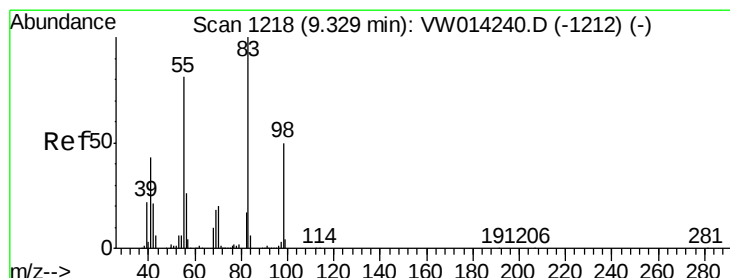
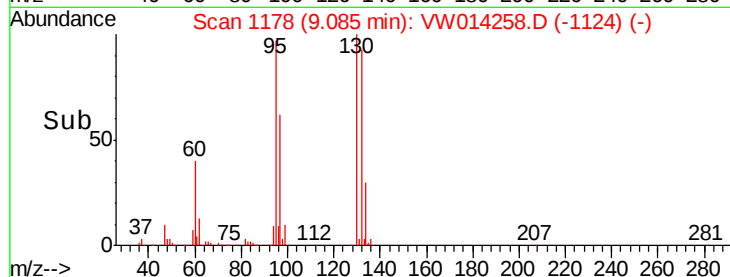
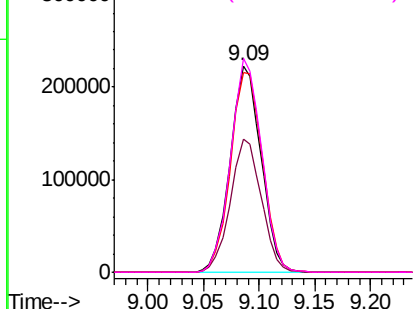
#35
 Trichloroethene
 Concen: 24.461 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

Tgt Ion:	95	Resp:	429358
Ion	Ratio	Lower	Upper
95	100		
97	64.4	45.1	83.9
132	100.0	73.7	136.9
130	103.3	76.6	142.2

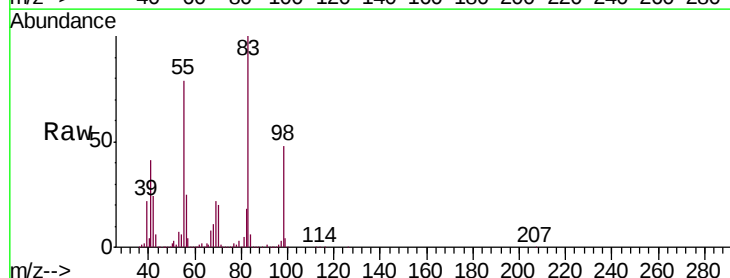


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): VW
 Ion 130.00 (129.70 to 130.70): VW

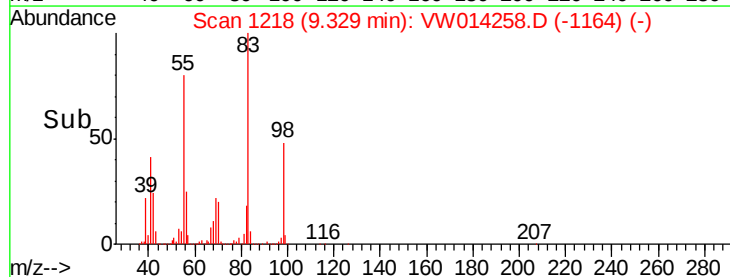
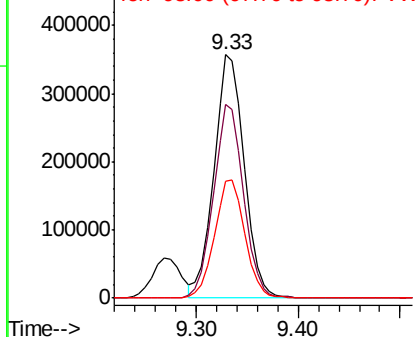


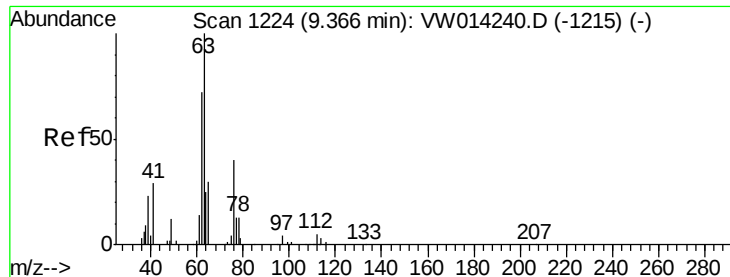
#36
 Methylcyclohexane
 Concen: 25.021 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

Tgt Ion:	83	Resp:	737981
Ion	Ratio	Lower	Upper
83	100		
55	78.8	59.8	89.8
98	48.9	39.5	59.3



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

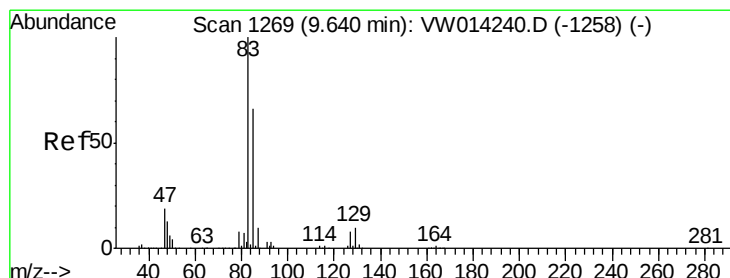
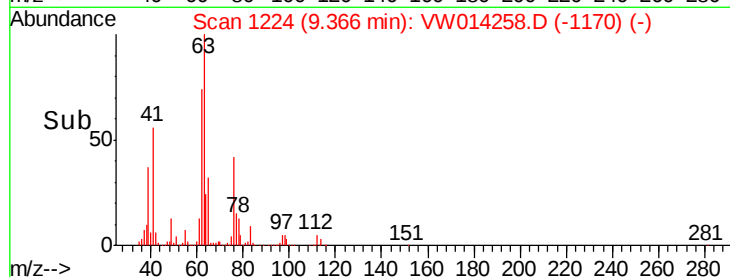
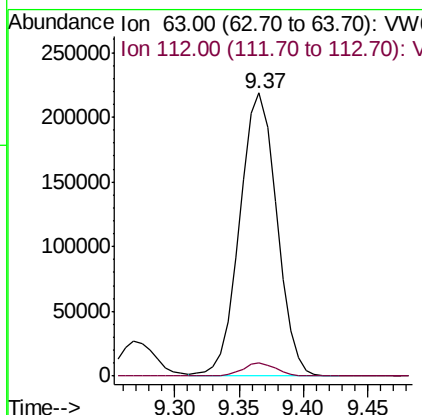
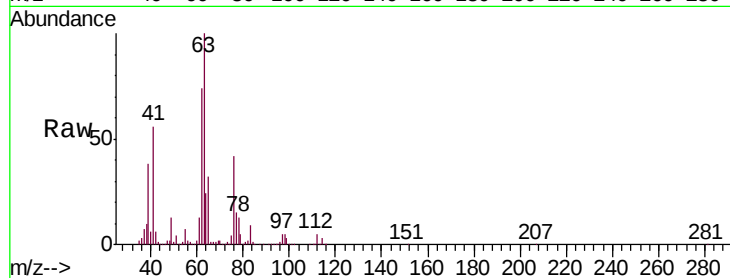




#40
 1,2-Dichloropropane
 Concen: 24.809 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

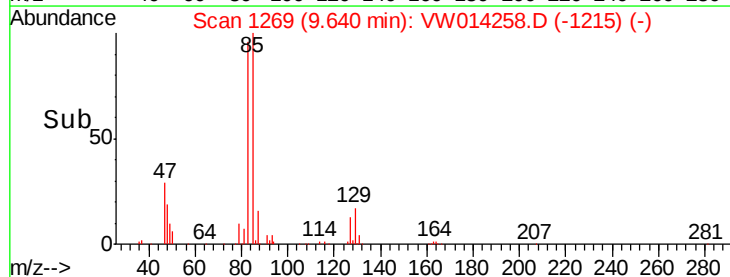
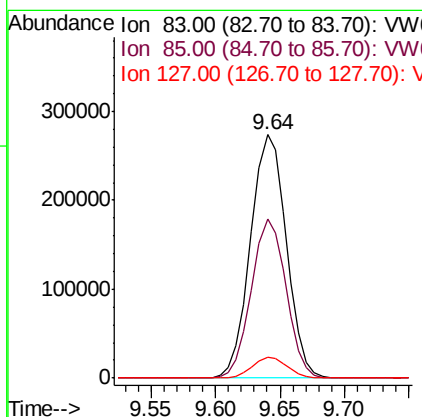
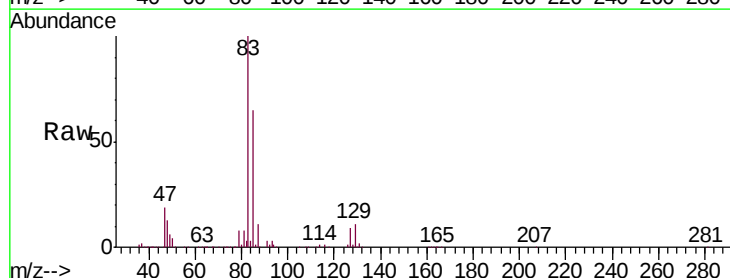
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

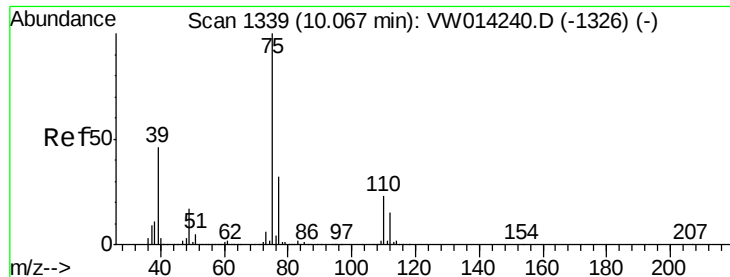
Tgt Ion: 63 Resp: 437237
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.9 5.9



#41
 Bromodichloromethane
 Concen: 24.588 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

Tgt Ion: 83 Resp: 526640
 Ion Ratio Lower Upper
 83 100
 85 65.2 45.1 83.7
 127 8.7 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 25.263 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

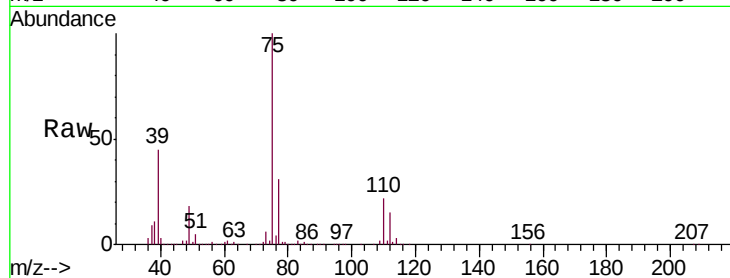
VSTD02509

Tgt Ion: 75 Resp: 666768

Ion Ratio Lower Upper

75 100

77 31.1 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

400000

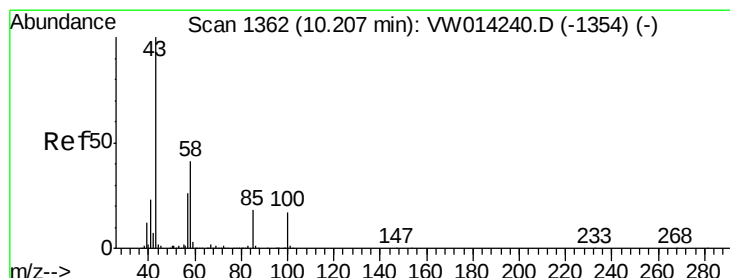
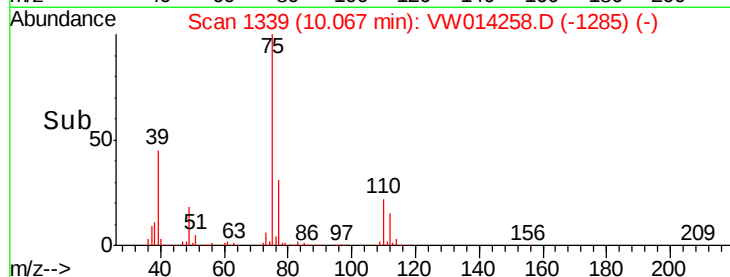
300000

200000

100000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 53.450 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

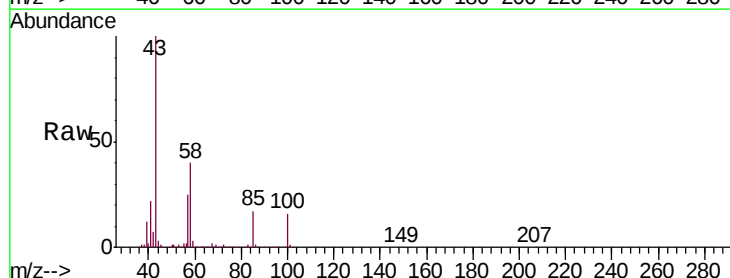
Tgt Ion: 43 Resp: 621176

Ion Ratio Lower Upper

43 100

58 40.1 32.6 49.0

100 15.9 13.8 20.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

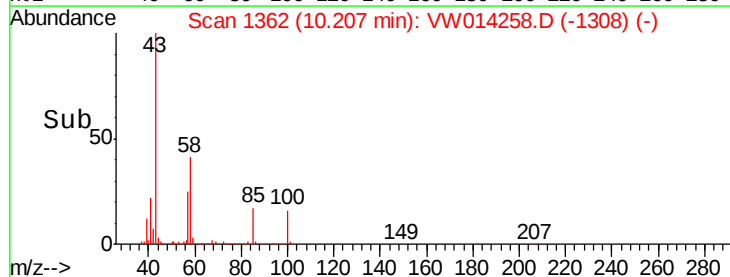
600000

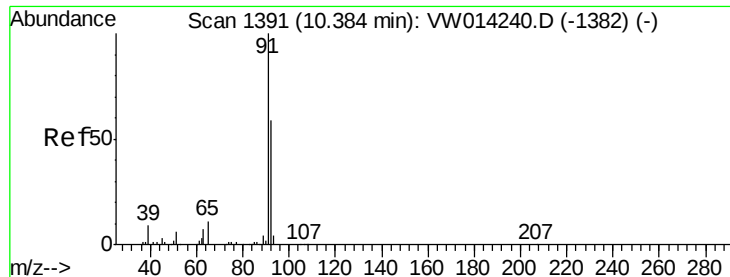
400000

200000

0

Time-->





#44

Toluene

Concen: 25.428 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

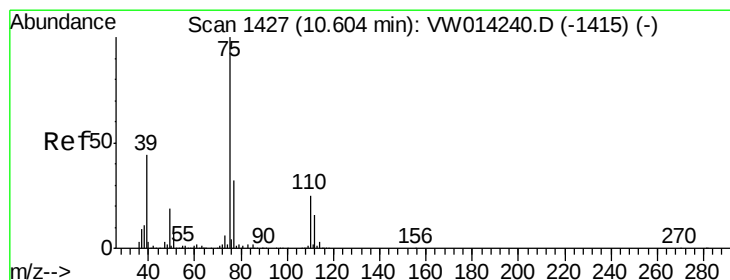
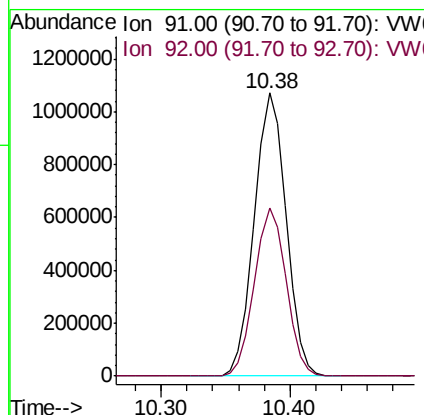
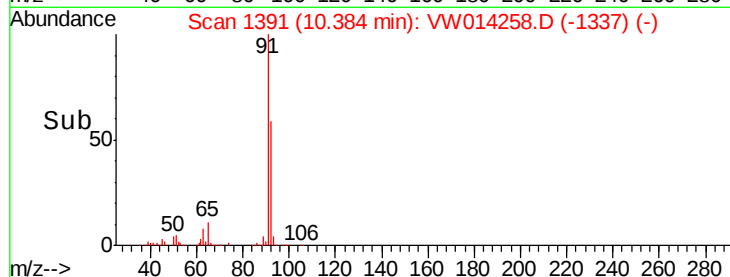
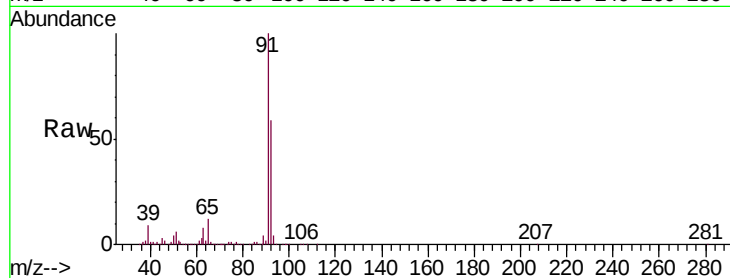
VSTD02509

Tgt Ion: 91 Resp: 1828813

Ion Ratio Lower Upper

91 100

92 59.4 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 24.954 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014258.D

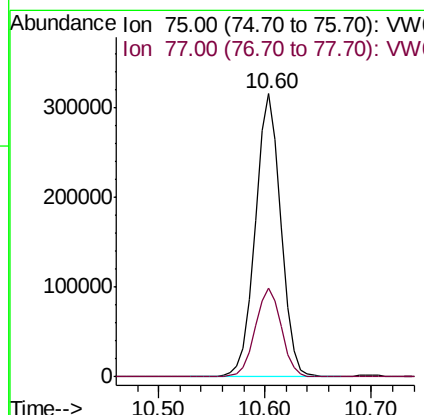
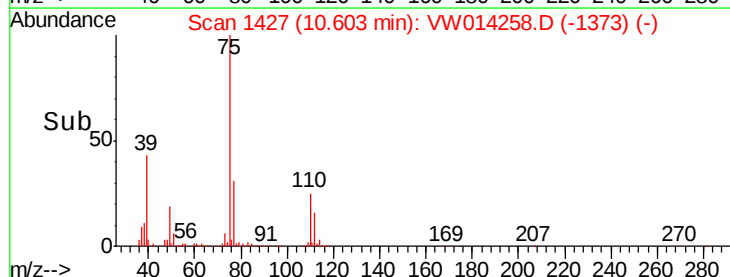
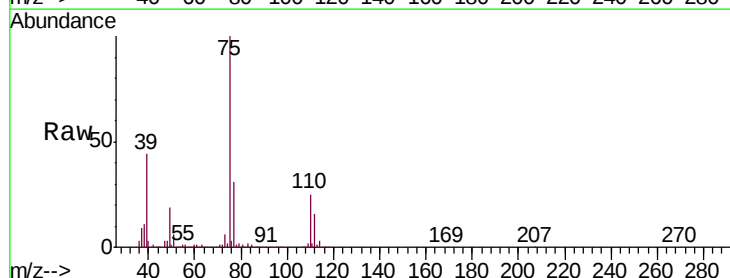
Acq: 06 Dec 2019 19:02

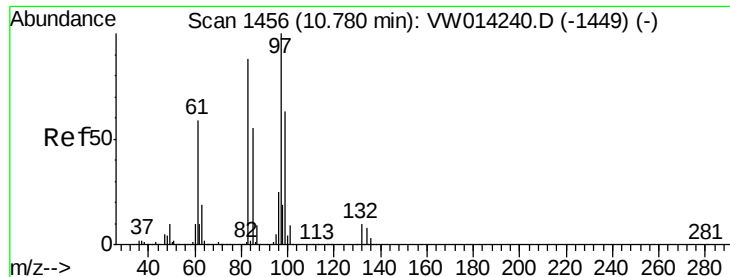
Tgt Ion: 75 Resp: 533144

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 24.666 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.01 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

Tgt Ion: 97 Resp: 325754

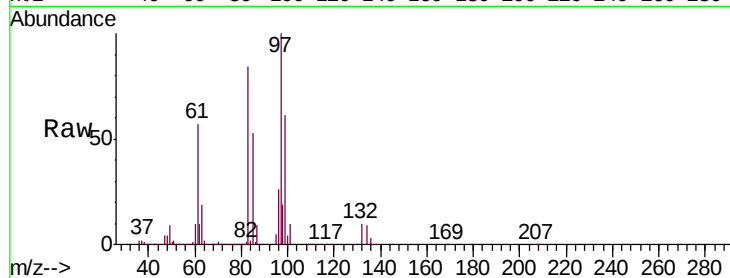
Ion Ratio Lower Upper

97 100

83 83.9 58.9 109.5

85 52.6 38.1 70.9

99 61.2 46.5 86.3



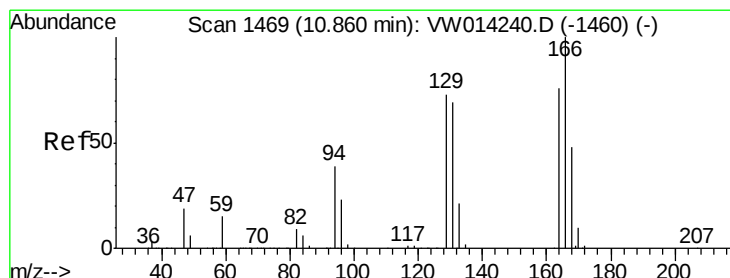
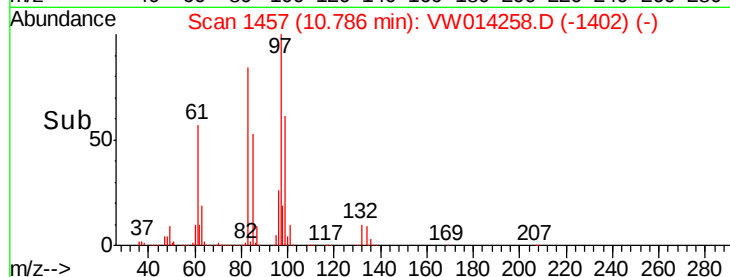
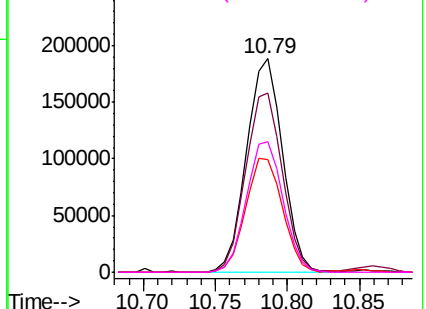
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 24.272 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Tgt Ion: 164 Resp: 355087

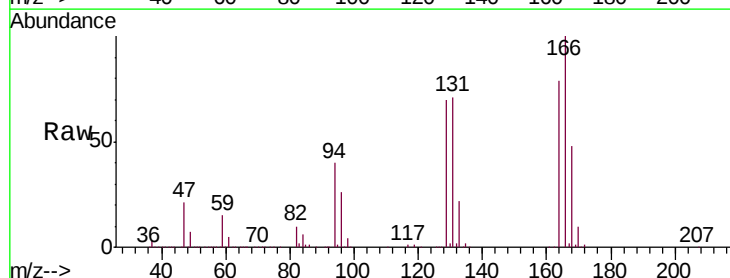
Ion Ratio Lower Upper

164 100

129 89.1 60.6 112.6

131 89.4 59.1 109.7

166 126.7 90.8 168.6



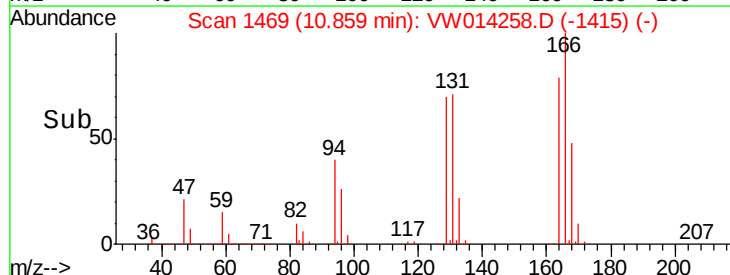
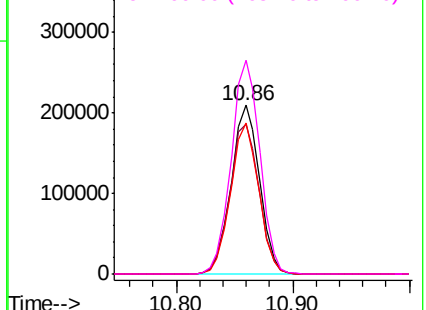
Abundance

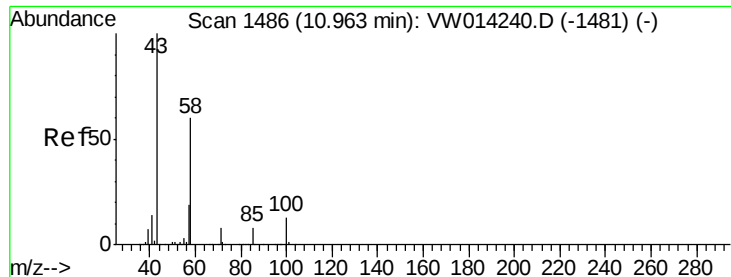
Ion 164.00 (163.70 to 164.70): V

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

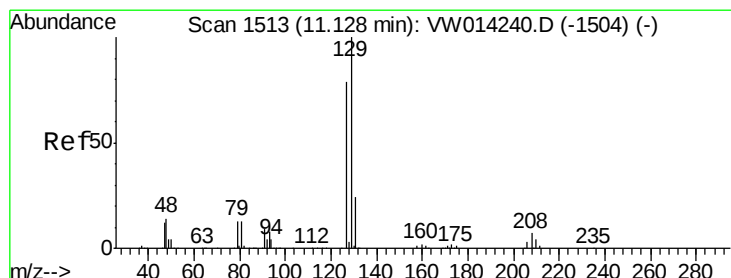
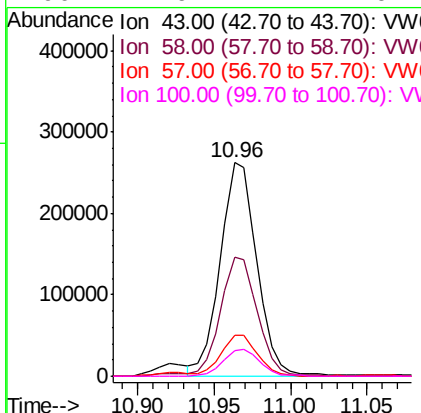
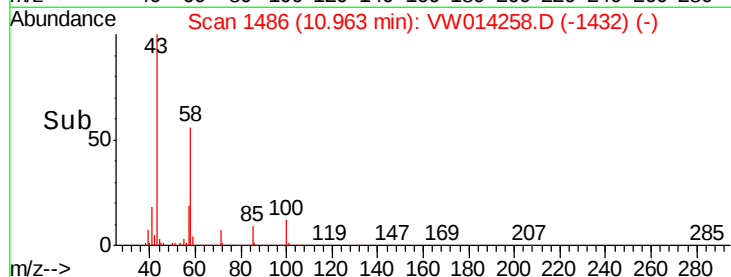
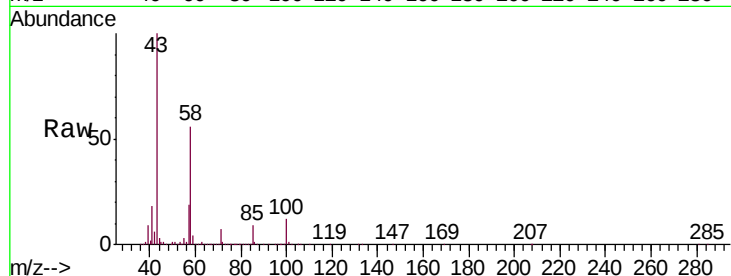




#49
2-Hexanone
Concen: 52.523 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

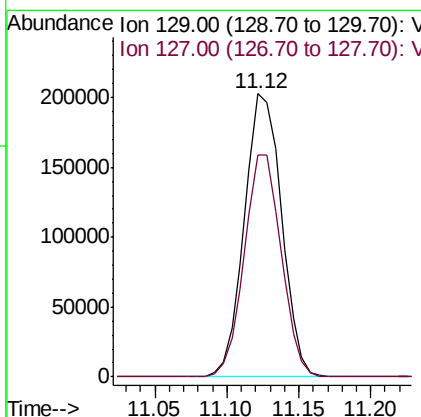
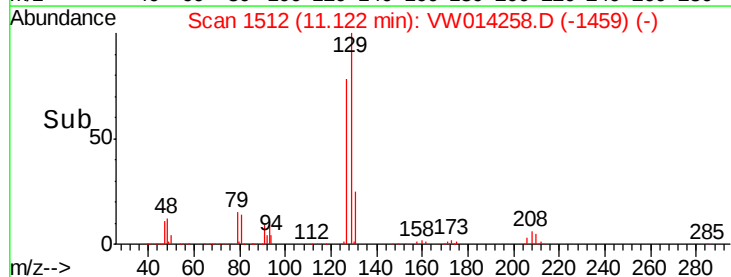
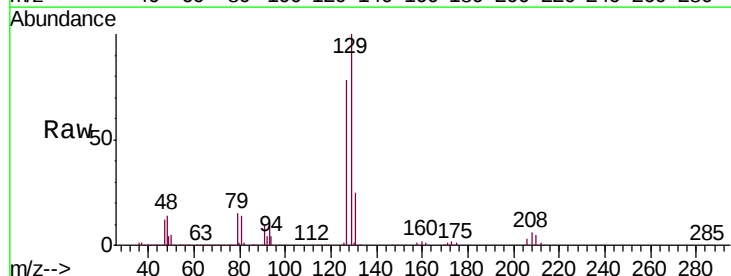
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

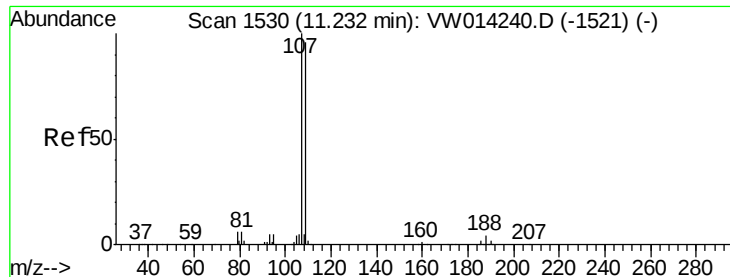
Tgt Ion: 43 Resp: 434571
Ion Ratio Lower Upper
43 100
58 57.6 44.4 66.6
57 19.3 16.5 24.7
100 12.6 11.1 16.7



#50
Dibromochloromethane
Concen: 24.486 ug/L
RT: 11.12 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Tgt Ion: 129 Resp: 362945
Ion Ratio Lower Upper
129 100
127 78.2 54.9 102.1

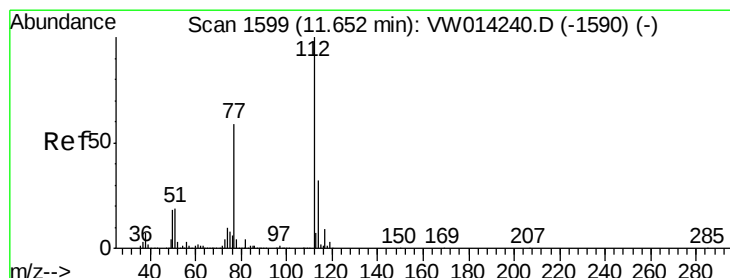
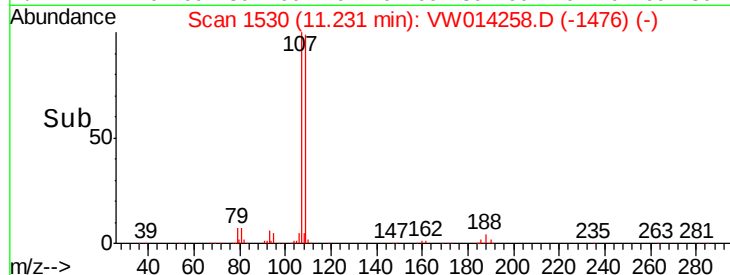
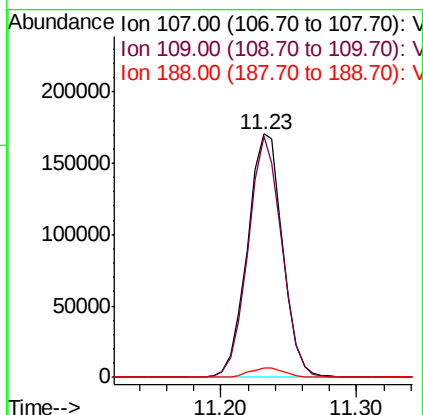
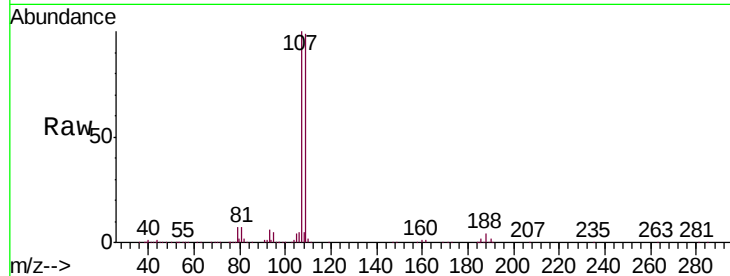




#51
1,2-Dibromoethane
Concen: 24.574 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

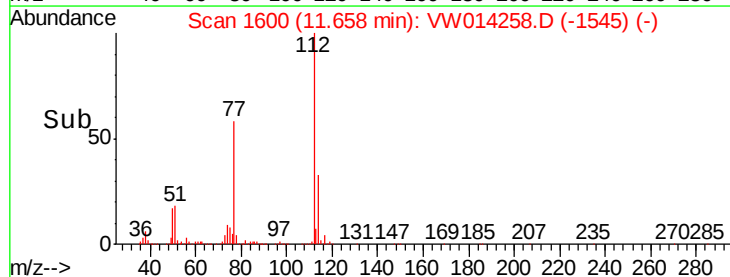
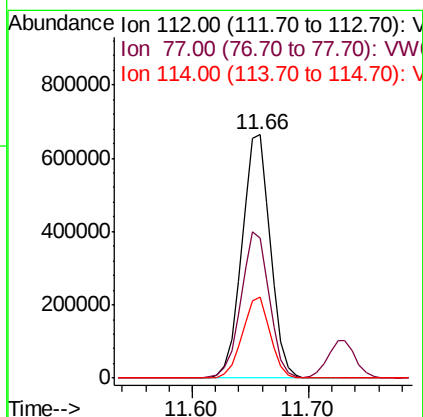
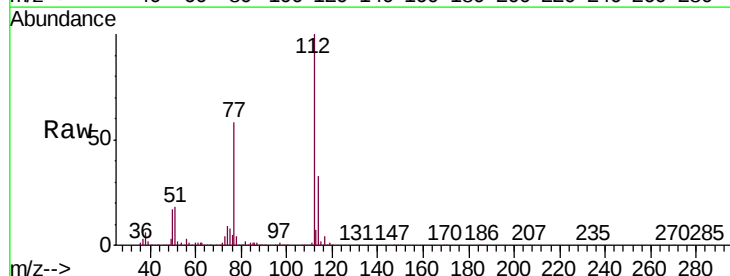
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

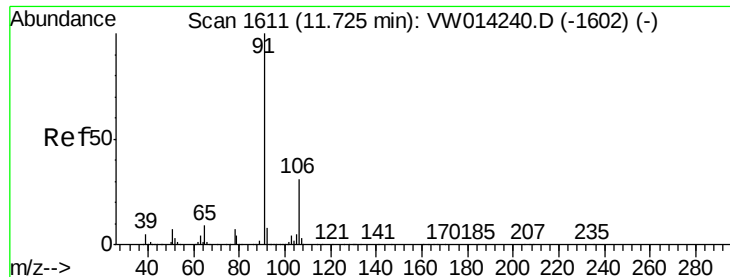
Tgt Ion:107 Resp: 307407
Ion Ratio Lower Upper
107 100
109 98.9 64.6 120.0
188 3.9 3.9 5.9#



#52
Chlorobenzene
Concen: 24.349 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VW014258.D
Acq: 06 Dec 2019 19:02

Tgt Ion:112 Resp: 1131790
Ion Ratio Lower Upper
112 100
77 57.7 42.2 63.4
114 33.5 22.5 41.9





#53

Ethylbenzene

Concen: 25.613 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

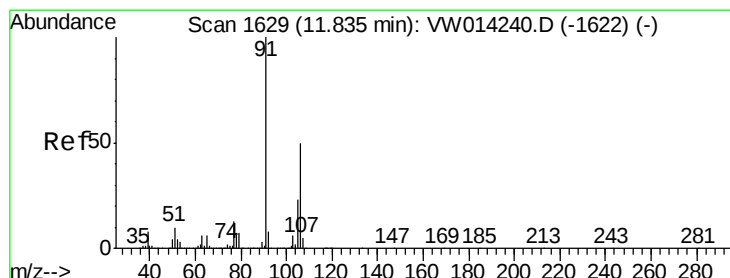
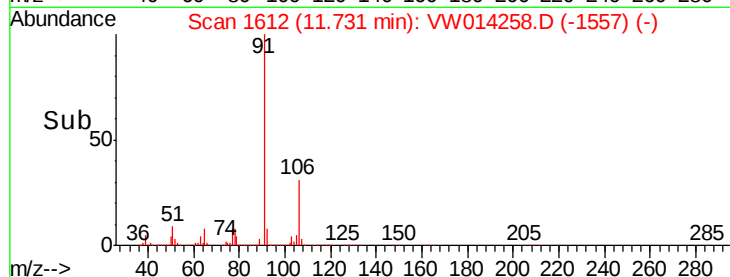
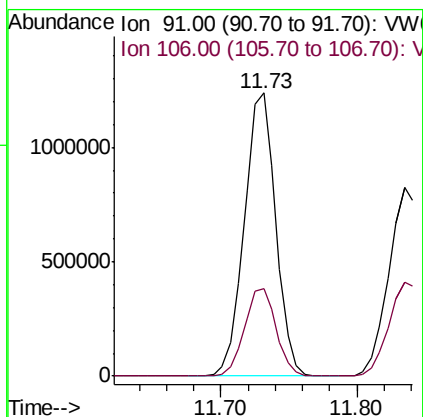
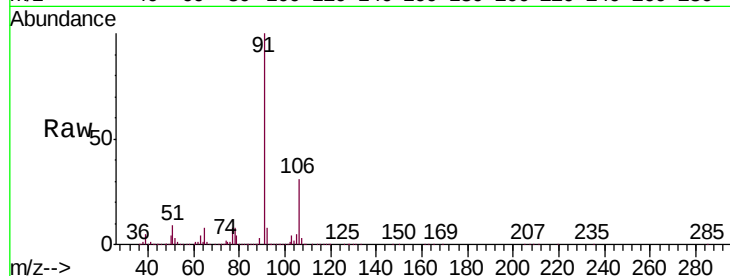
VSTD02509

Tgt Ion: 91 Resp: 1998853

Ion Ratio Lower Upper

91 100

106 30.8 22.3 41.5



#54

m,p-Xylene

Concen: 25.425 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014258.D

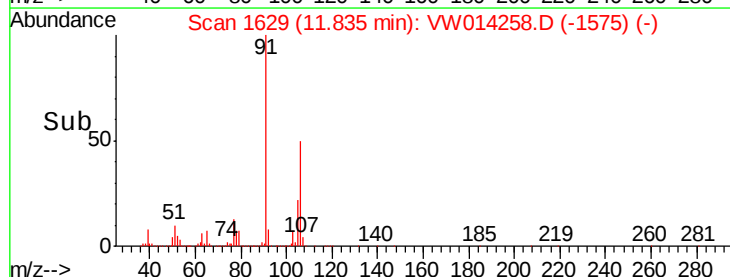
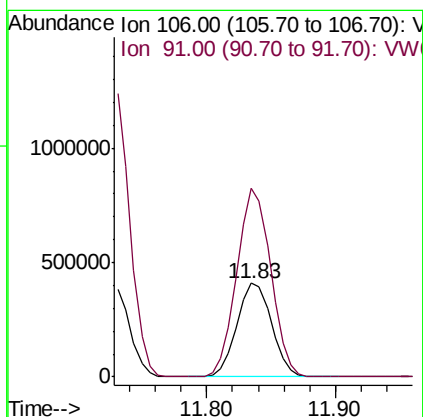
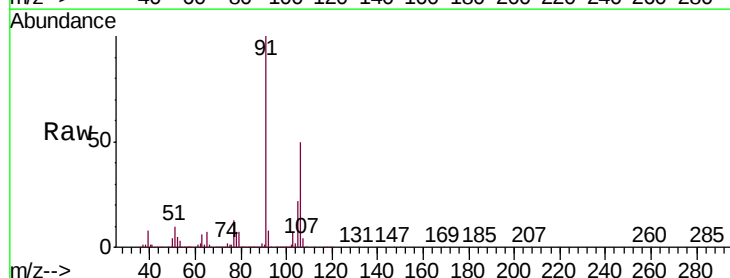
Acq: 06 Dec 2019 19:02

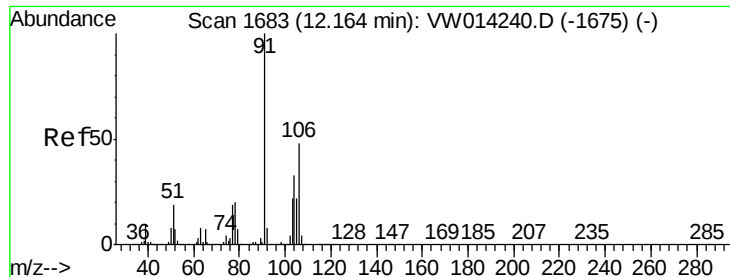
Tgt Ion: 106 Resp: 763270

Ion Ratio Lower Upper

106 100

91 201.3 138.7 257.5





#55

o-xylene

Concen: 25.409 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampled :

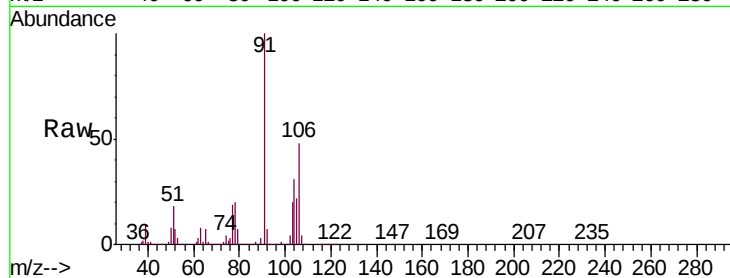
VSTD02509

Tgt Ion:106 Resp: 723496

Ion Ratio Lower Upper

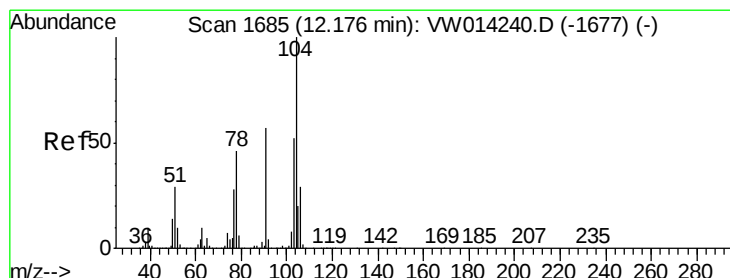
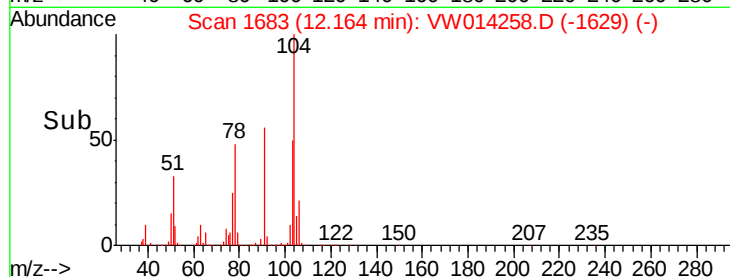
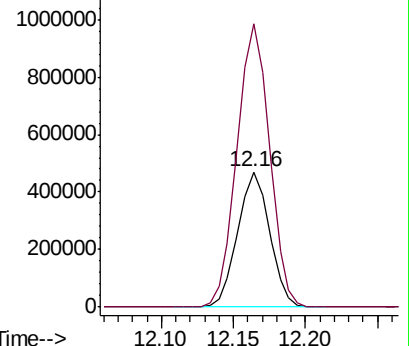
106 100

91 209.6 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.921 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW014258.D

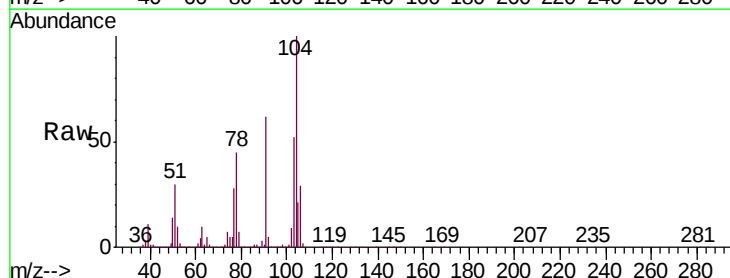
Acq: 06 Dec 2019 19:02

Tgt Ion:104 Resp: 1262646

Ion Ratio Lower Upper

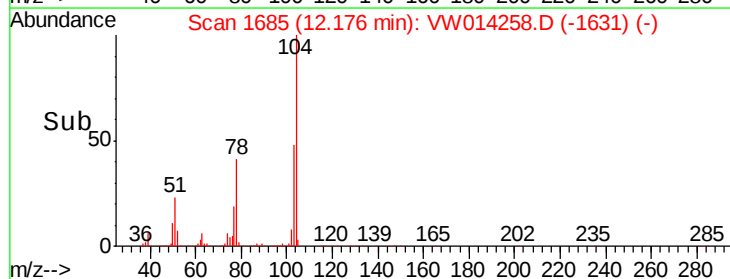
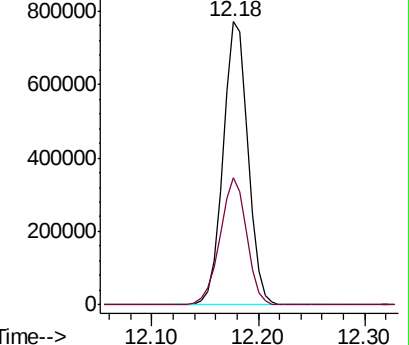
104 100

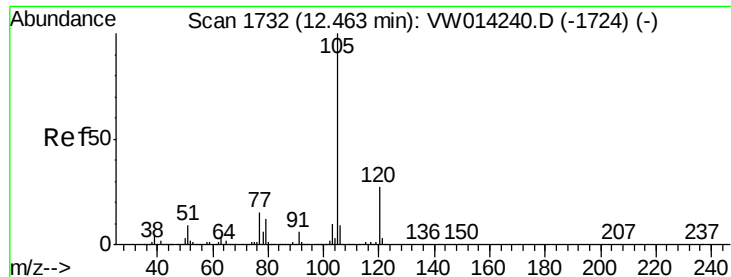
78 45.0 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 25.546 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

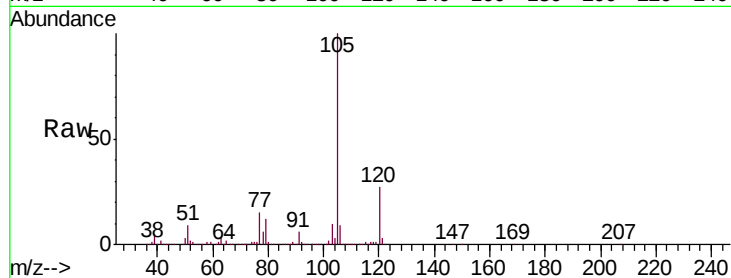
Tgt Ion: 105 Resp: 1888412

Ion Ratio Lower Upper

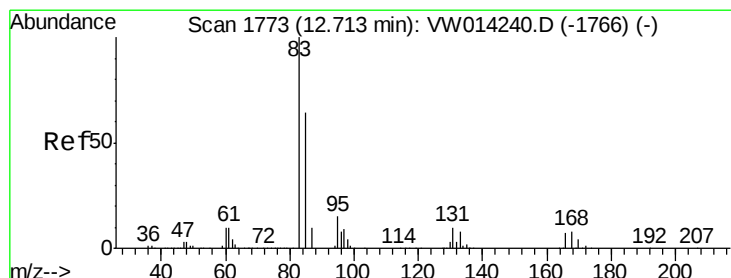
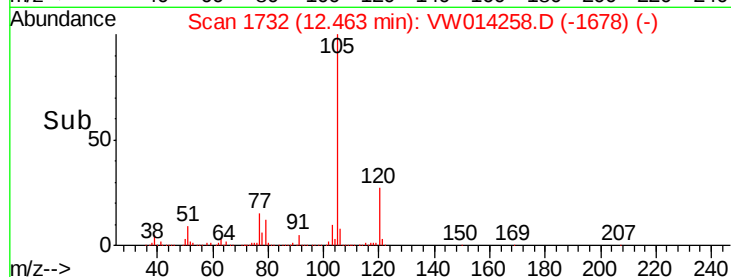
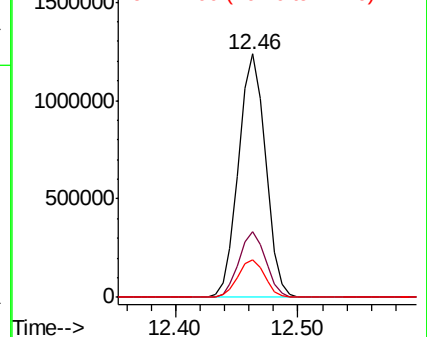
105 100

120 26.8 21.6 32.4

77 15.3 11.6 17.4



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.949 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

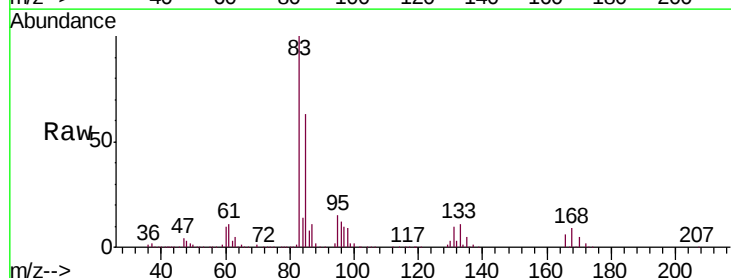
Tgt Ion: 83 Resp: 408962

Ion Ratio Lower Upper

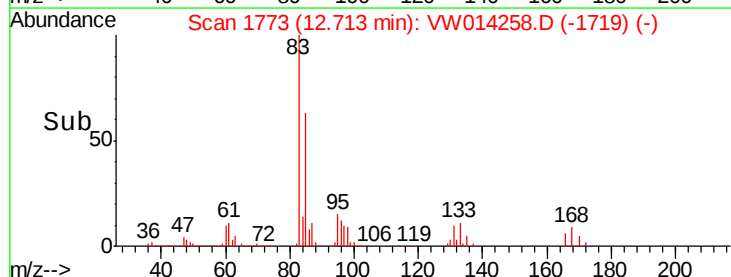
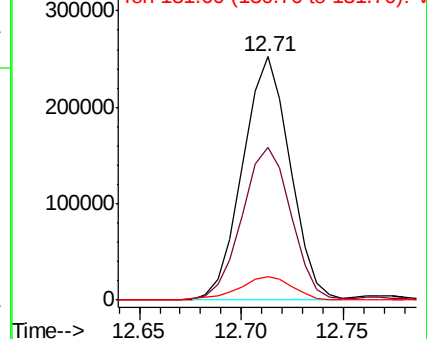
83 100

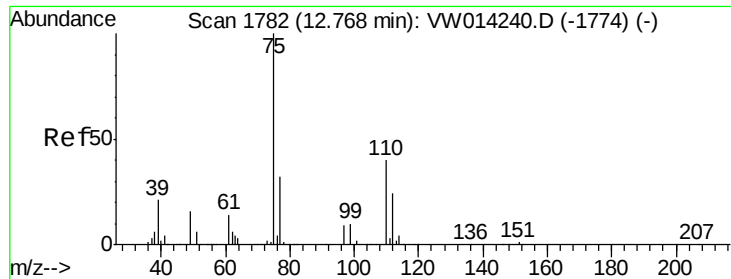
85 62.9 43.7 81.1

131 9.8 8.2 12.2



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): V

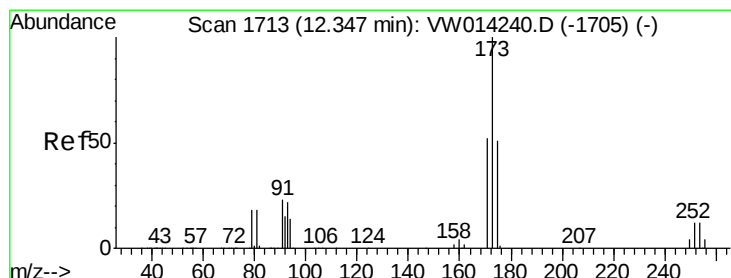
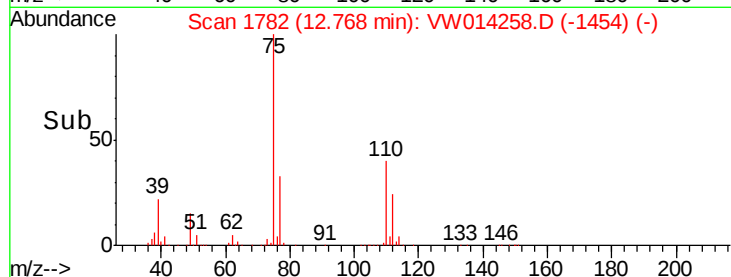
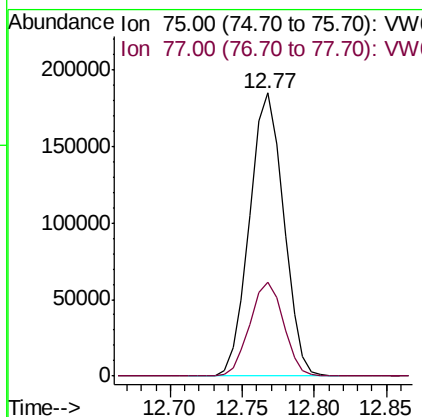
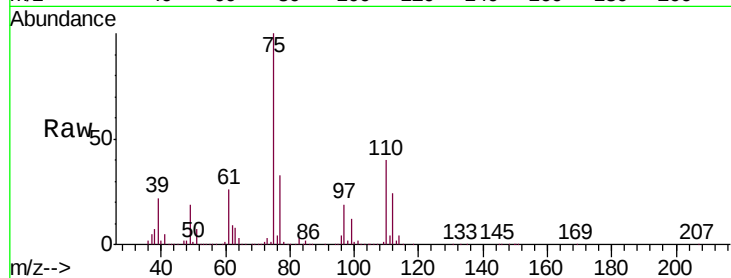




#59
 1,2,3-Trichloropropane
 Concen: 24.825 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

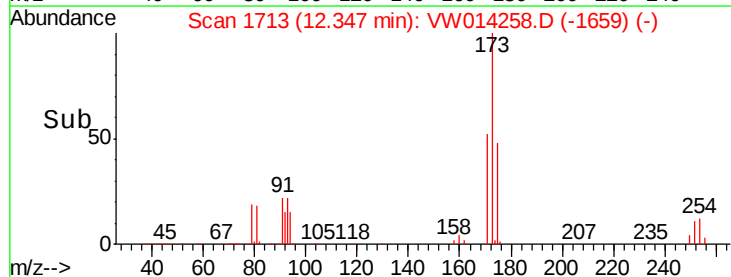
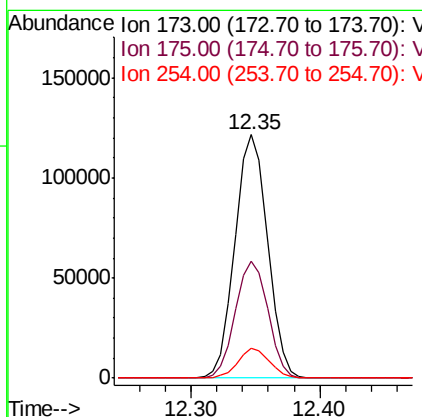
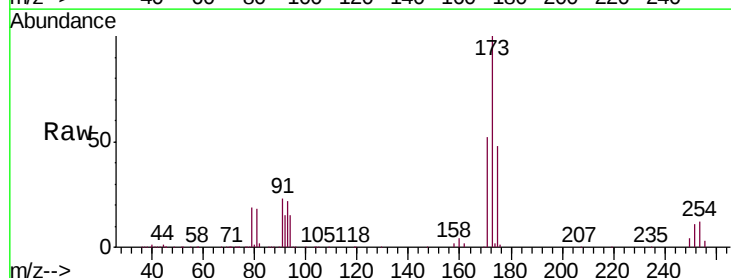
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

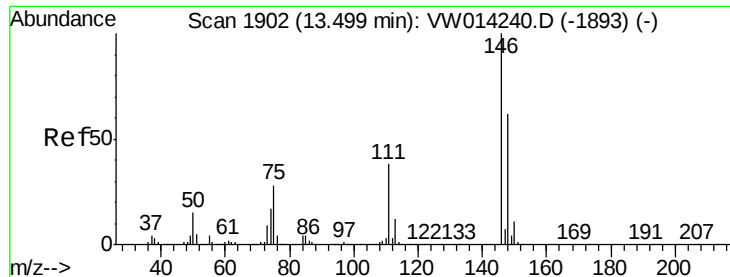
Tgt Ion: 75 Resp: 302371
 Ion Ratio Lower Upper
 75 100
 77 32.9 25.9 38.9



#62
 Bromoform
 Concen: 23.219 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

Tgt Ion: 173 Resp: 213849
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.8 58.2
 254 11.7 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 24.272 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

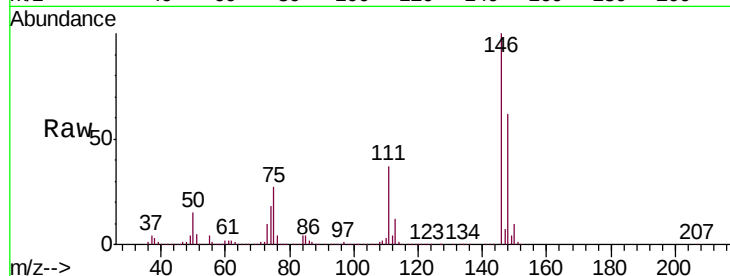
Tgt Ion:146 Resp: 885288

Ion Ratio Lower Upper

146 100

111 37.3 26.0 48.2

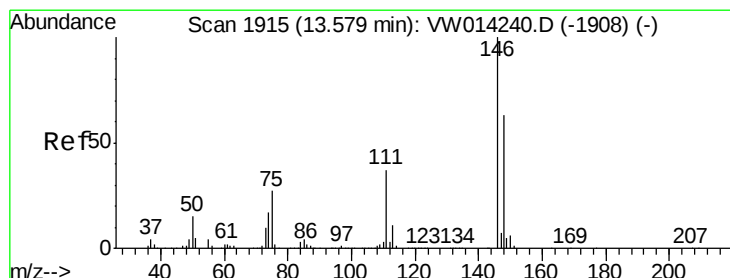
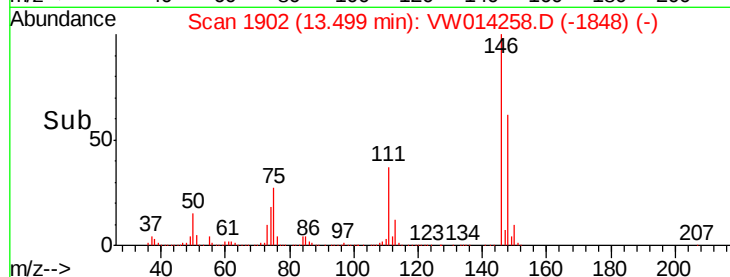
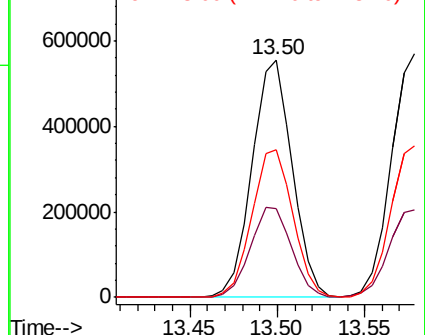
148 62.2 44.7 82.9



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



#64

1,4-Dichlorobenzene

Concen: 23.971 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

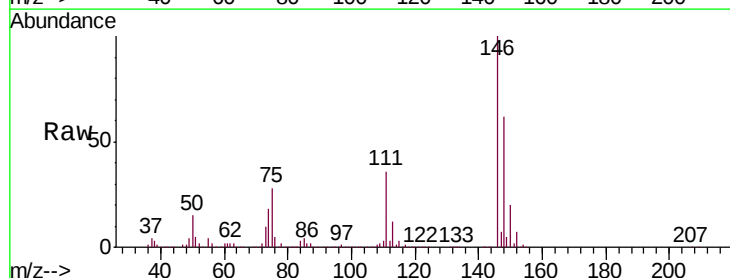
Tgt Ion:146 Resp: 888280

Ion Ratio Lower Upper

146 100

111 36.1 24.9 46.3

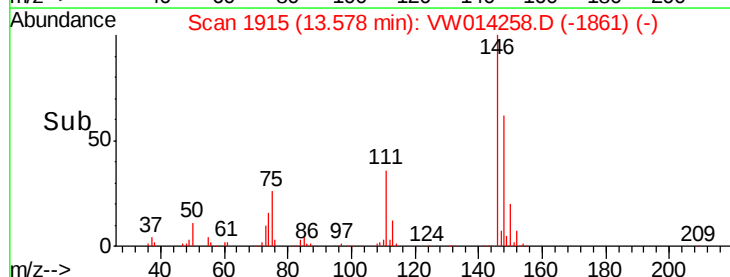
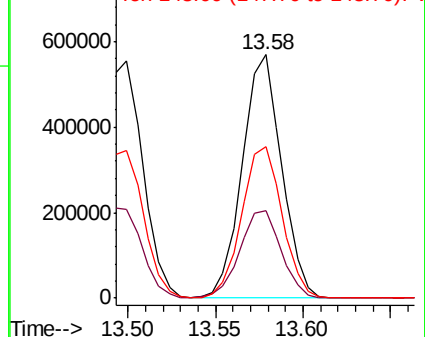
148 62.1 43.9 81.5

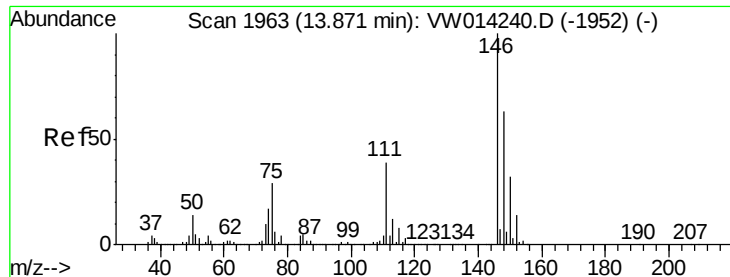


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

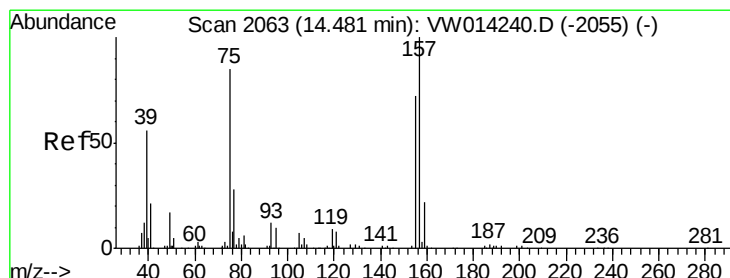
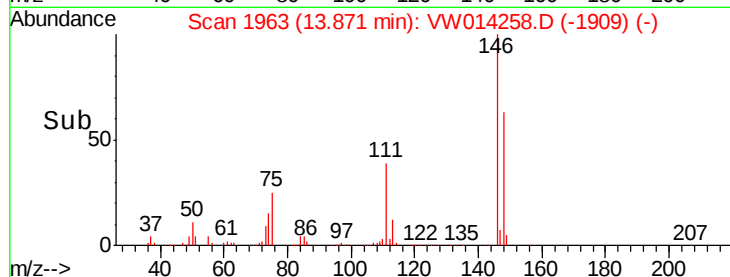
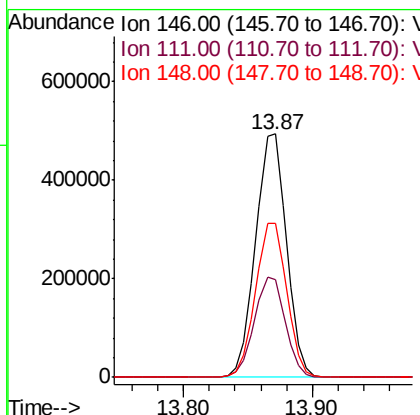
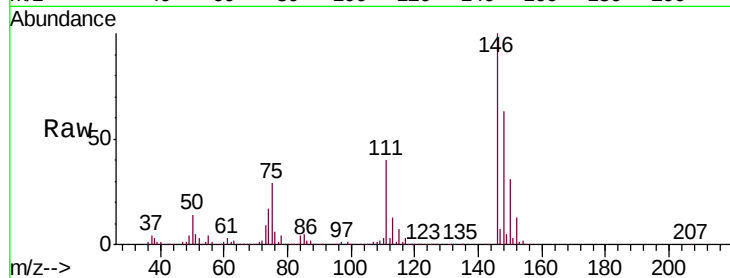




#65
 1,2-Dichlorobenzene
 Concen: 24.125 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

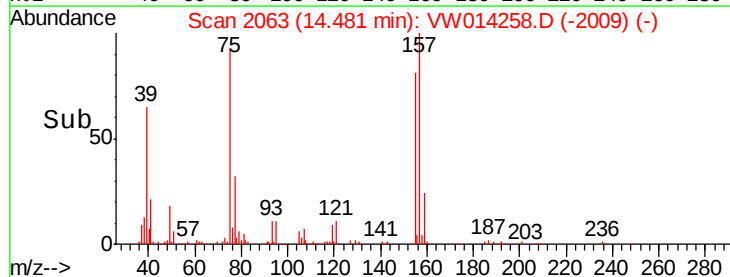
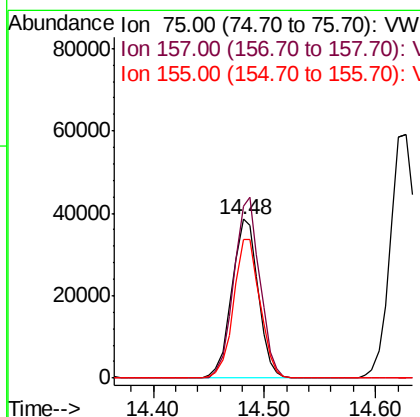
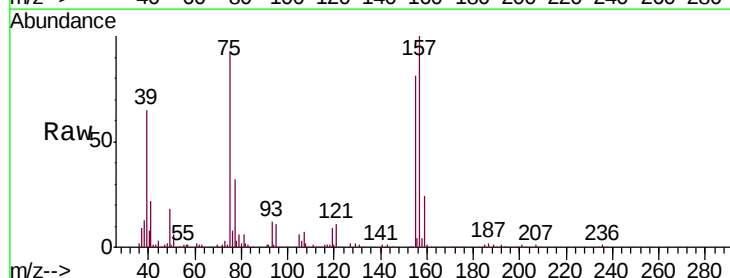
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

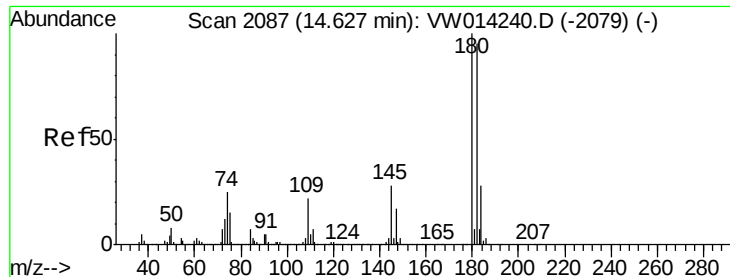
Tgt Ion: 146 Resp: 818260
 Ion Ratio Lower Upper
 146 100
 111 39.9 30.5 45.7
 148 63.2 49.4 74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.062 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

Tgt Ion: 75 Resp: 62958
 Ion Ratio Lower Upper
 75 100
 157 108.0 96.9 145.3
 155 87.7 82.9 124.3

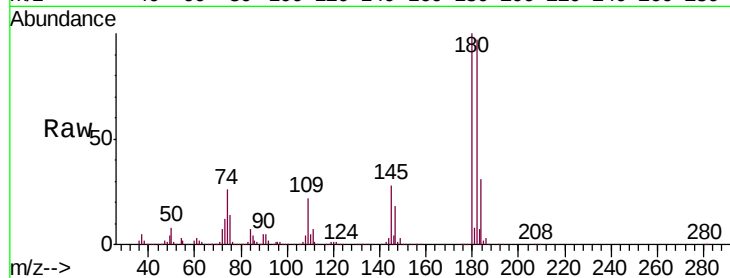




#67
 1,3,5-Trichlorobenzene
 Concen: 24.104 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

Tgt Ion:	180	Resp:	632520
Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.2	114.2
184	30.8	24.3	36.5
145	28.6	21.9	32.9



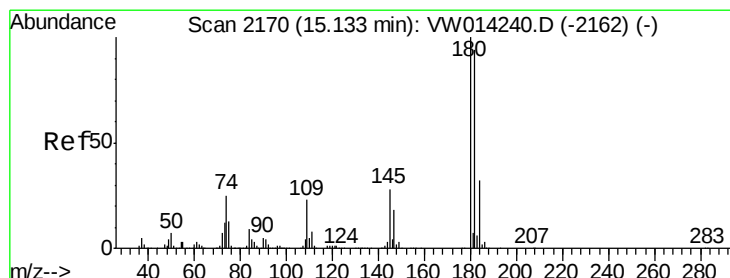
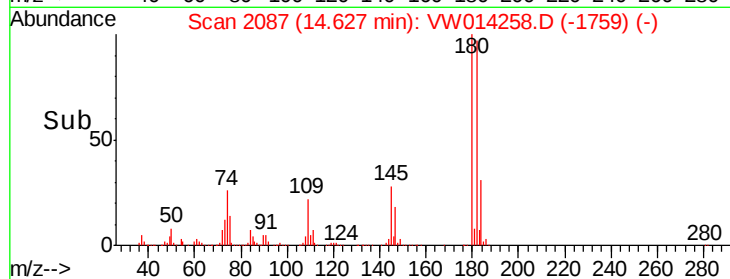
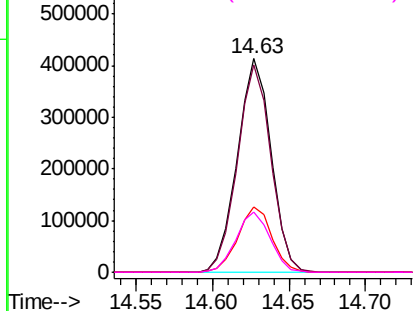
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

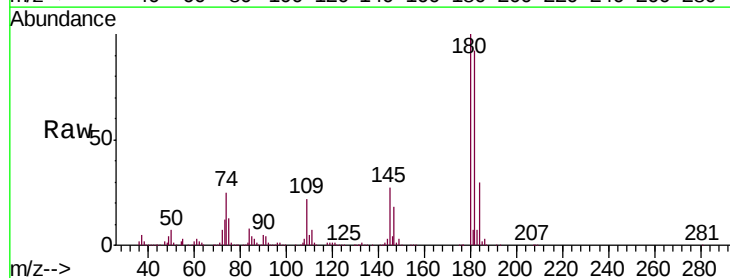
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.935 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014258.D
 Acq: 06 Dec 2019 19:02

Tgt Ion:	180	Resp:	510101
Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.8	113.8
145	28.7	22.4	33.6

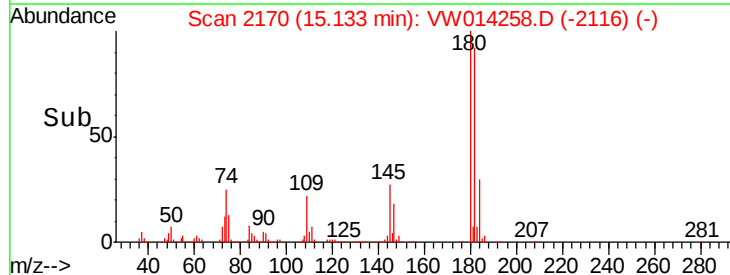
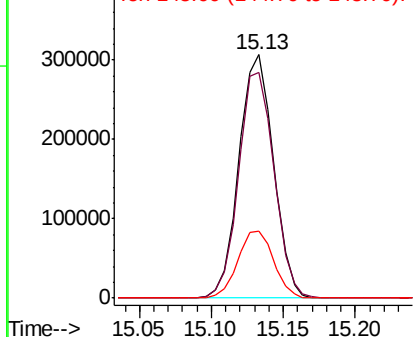


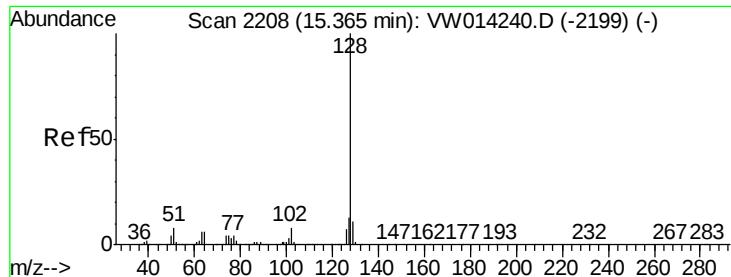
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 25.864 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

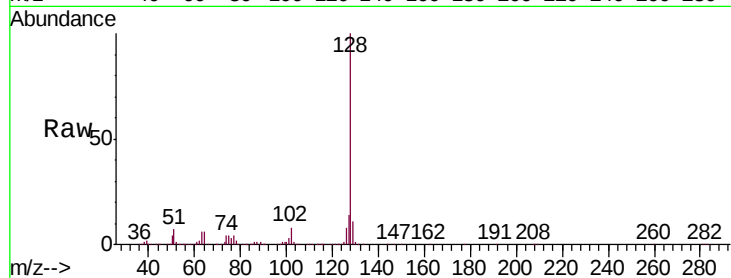
Tgt Ion:128 Resp: 994990

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

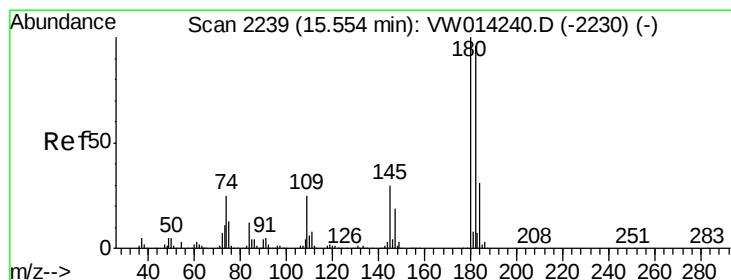
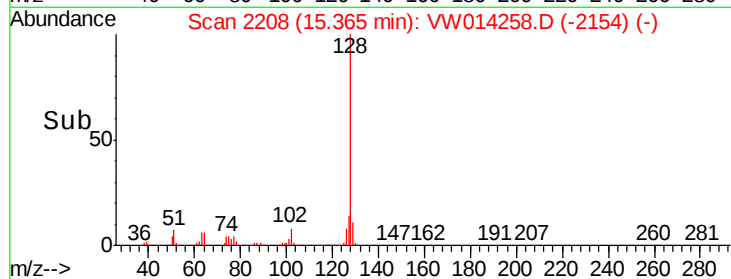
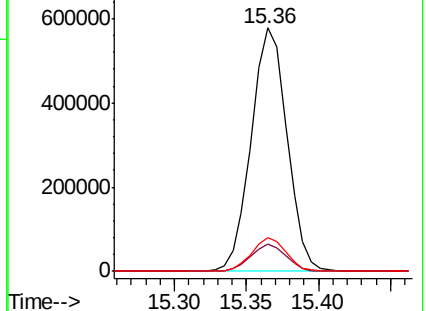
127 13.4 10.4 15.6



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: 24.644 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014258.D

Acq: 06 Dec 2019 19:02

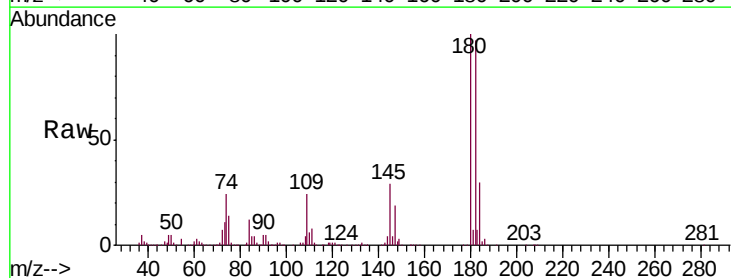
Tgt Ion:180 Resp: 472778

Ion Ratio Lower Upper

180 100

182 96.4 75.8 113.6

145 30.4 24.0 36.0



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

