

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122019\
 Data File : VW014472.D
 Acq On : 20 Dec 2019 15:12
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02501

Quant Time: Dec 21 04:37:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Dec 21 04:34:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	848539	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	756395	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	374427	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	257088	20.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.04%
7) Chloroethane-d5	2.89	69	235425	24.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.56%
10) 1,1-Dichloroethene-d2	4.02	63	549872	24.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.92%
20) 2-Butanone-d5	7.07	46	235491	70.33	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	140.66%#
24) Chloroform-d	7.64	84	576824	26.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	106.80%
26) 1,2-Dichloroethane-d4	8.31	65	314575	27.77	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	111.08%
29) Benzene-d6	8.27	84	1139382	25.70	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.80%
33) 1,2-Dichloropropane-d6	9.27	67	358369	26.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.12%
37) Toluene-d8	10.32	98	1004150	25.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.20%
38) trans-1,3-Dichloropropene-	10.57	79	145686	25.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.84%
39) 2-Hexanone-d5	10.92	63	178713	65.90	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	131.80%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	326988	29.42	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	117.68%
61) 1,2-Dichlorobenzene-d4	13.85	152	346722	24.23	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.92%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	217132	26.904	ug/L 96
3) Chloromethane	2.21	50	208500	25.699	ug/L 97
5) Vinyl chloride	2.36	62	333275	27.743	ug/L 96
6) Bromomethane	2.78	94	188538	25.444	ug/L 99
8) Chloroethane	2.92	64	191813	27.949	ug/L 95
9) Trichlorofluoromethane	3.26	101	170293	28.635	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	307230	27.450	ug/L 94
12) 1,1-Dichloroethene	4.04	96	292746	25.835	ug/L 89
13) Acetone	4.12	43	185606	57.493	ug/L 96
14) Carbon disulfide	4.38	76	831743	23.933	ug/L 100
15) Methyl Acetate	4.67	43	172469	28.244	ug/L 96
16) Methylene chloride	4.92	84	322338	24.780	ug/L 95
17) Methyl tert-butyl Ether	5.42	73	379578	25.402	ug/L 98
18) trans-1,2-Dichloroethene	5.42	96	295111	24.320	ug/L 92
19) 1,1-Dichloroethane	6.21	63	562929	25.820	ug/L 98
21) 2-Butanone	7.17	43	243807	56.251	ug/L 96
22) cis-1,2-Dichloroethene	7.16	96	314084	24.325	ug/L 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

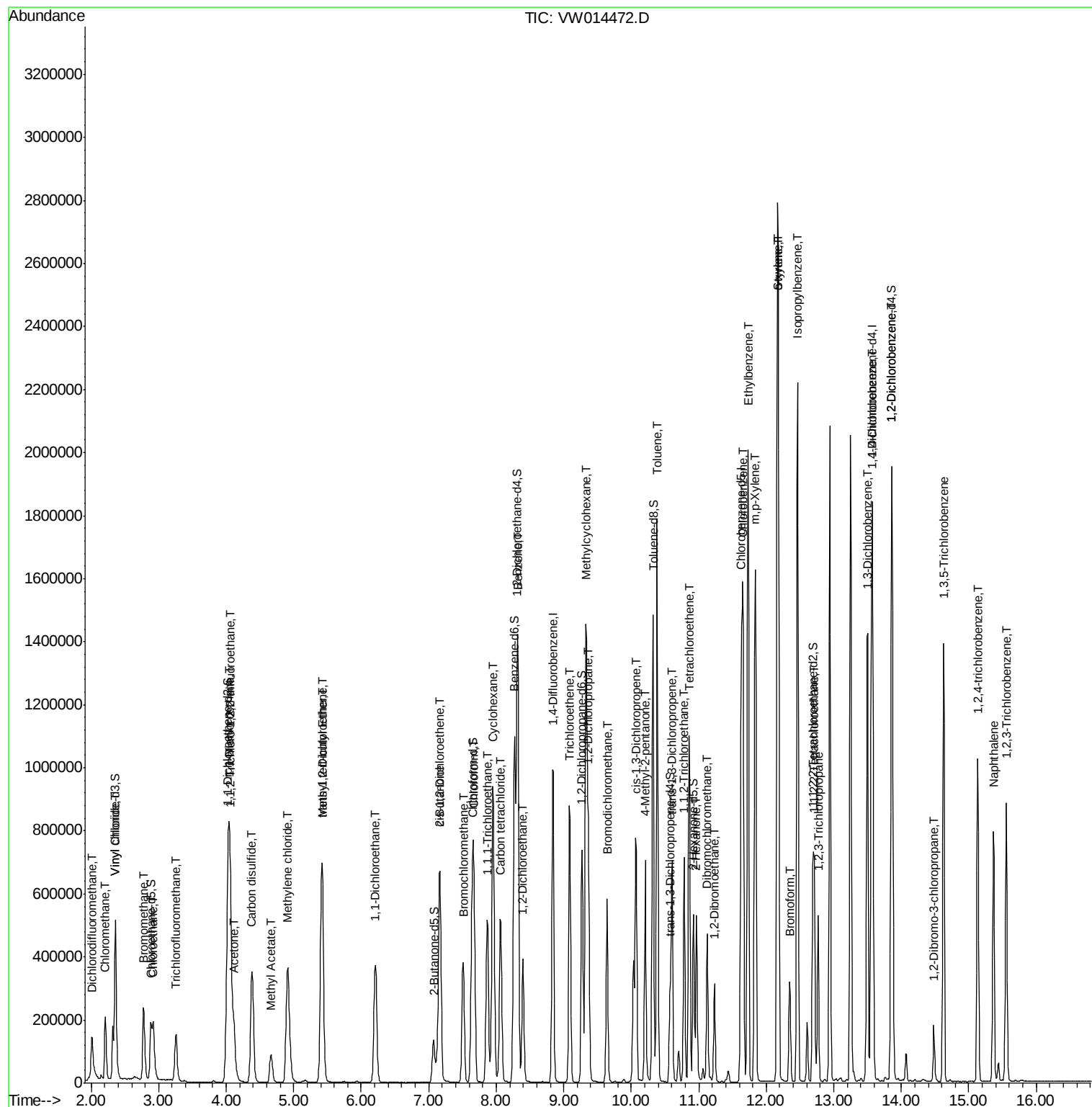
23) Bromochloromethane	7.51	128	138023	23.239	ug/L #	79
25) Chloroform	7.67	83	539717	25.475	ug/L	99
27) 1,2-Dichloroethane	8.40	62	359835	25.938	ug/L	95
30) Cyclohexane	7.95	56	539711	28.587	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	426773	28.094	ug/L	97
32) Carbon tetrachloride	8.07	117	406039	28.171	ug/L	99
34) Benzene	8.32	78	1248520	26.069	ug/L	100
35) Trichloroethene	9.09	95	313851	25.612	ug/L	95
36) Methylcyclohexane	9.33	83	573516	27.852	ug/L	95
40) 1,2-Dichloropropane	9.37	63	314971	25.599	ug/L	99
41) Bromodichloromethane	9.64	83	377532	25.248	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	465908	25.285	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	466382	57.482	ug/L	96
44) Toluene	10.38	91	1300626	25.903	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	383147	25.688	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	230491	24.999	ug/L	98
47) Tetrachloroethene	10.86	164	258819	25.341	ug/L	96
49) 2-Hexanone	10.96	43	336603	58.273	ug/L	98
50) Dibromochloromethane	11.13	129	254888	24.632	ug/L	99
51) 1,2-Dibromoethane	11.23	107	216858	24.831	ug/L	99
52) Chlorobenzene	11.65	112	787949	24.281	ug/L	93
53) Ethylbenzene	11.73	91	1432152	26.286	ug/L	97
54) m,p-Xylene	11.83	106	539421	25.738	ug/L	100
55) o-xylene	12.16	106	500752	25.190	ug/L	99
56) Styrene	12.18	104	863417	25.389	ug/L	96
57) Isopropylbenzene	12.46	105	1387477	26.885	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	291649	25.486	ug/L	95
59) 1,2,3-Trichloropropane	12.77	75	223628	26.299	ug/L	99
62) Bromoform	12.35	173	152600	24.013	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	606340	24.093	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	608511	23.799	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	551210	23.553	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.48	75	47138	26.110	ug/L #	75
67) 1,3,5-Trichlorobenzene	14.63	180	444689	24.560	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	335901	23.797	ug/L	97
69) Naphthalene	15.36	128	669410	25.218	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	322477	24.362	ug/L	98

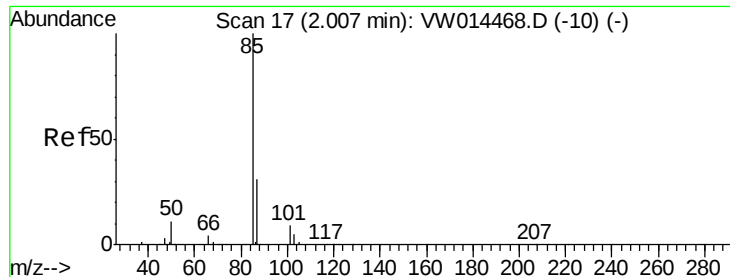
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 26.904 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

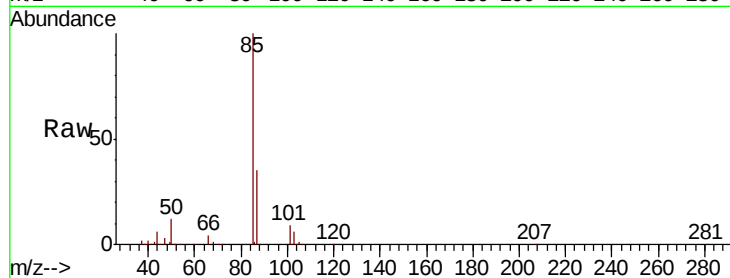
VSTD02501

Tot Ion: 85 Resp: 217132

Ion Ratio Lower Upper

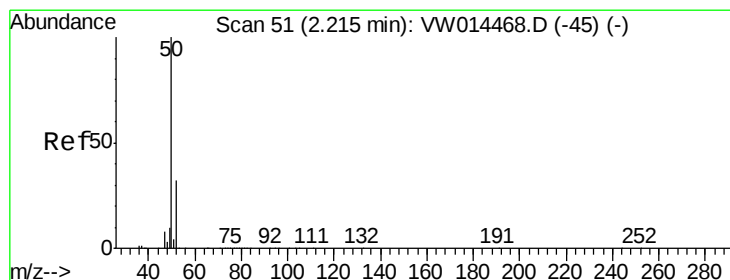
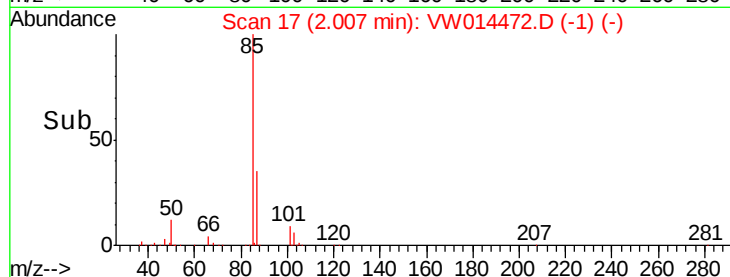
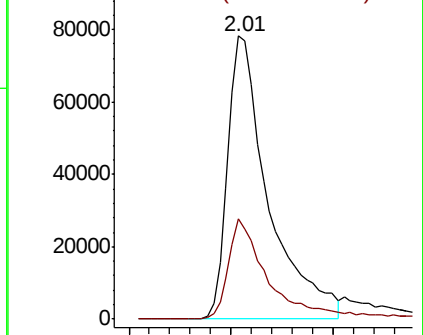
85 100

87 34.0 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: 25.699 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014472.D

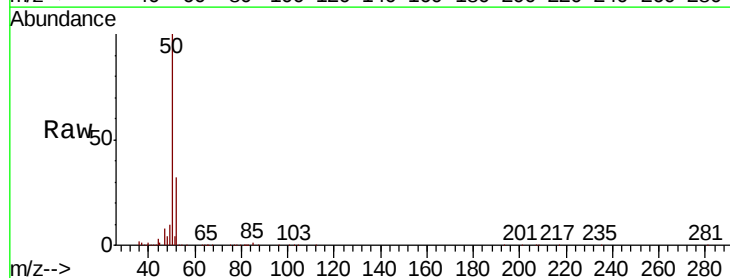
Acq: 20 Dec 2019 15:12

Tgt Ion: 50 Resp: 208500

Ion Ratio Lower Upper

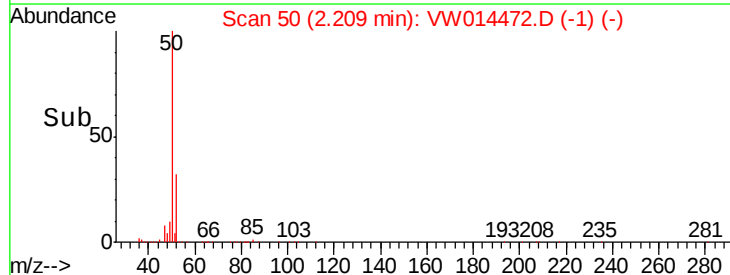
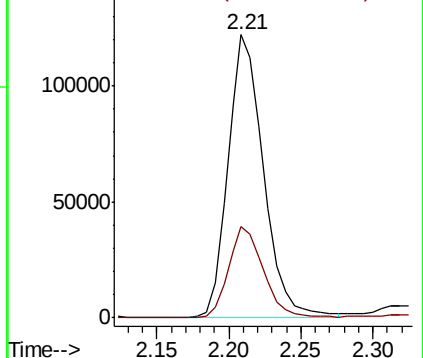
50 100

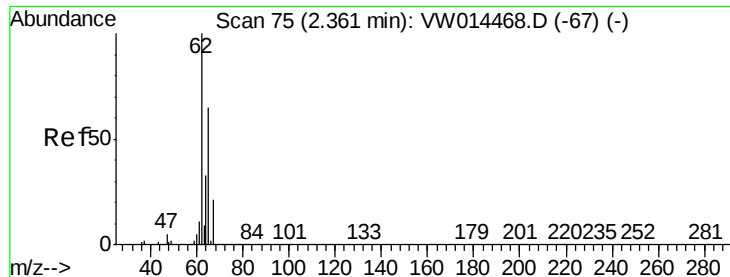
52 32.3 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 27.743 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

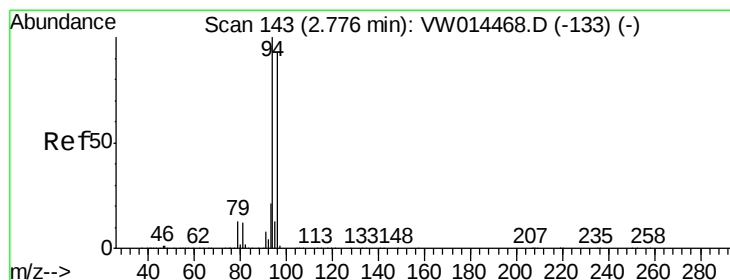
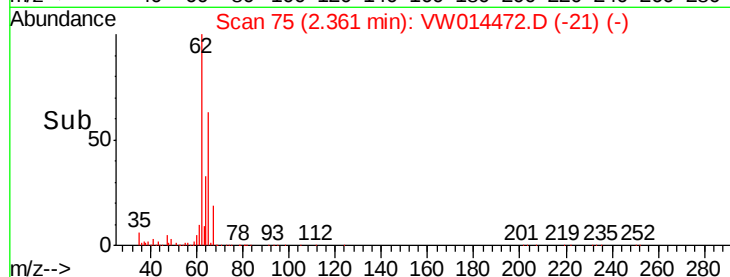
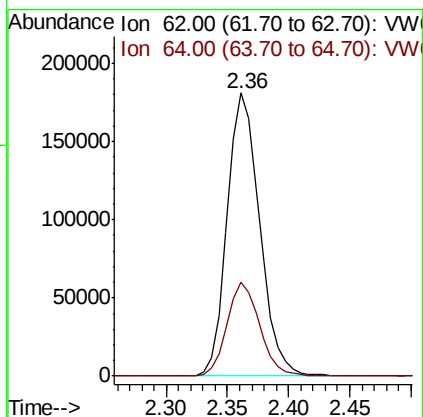
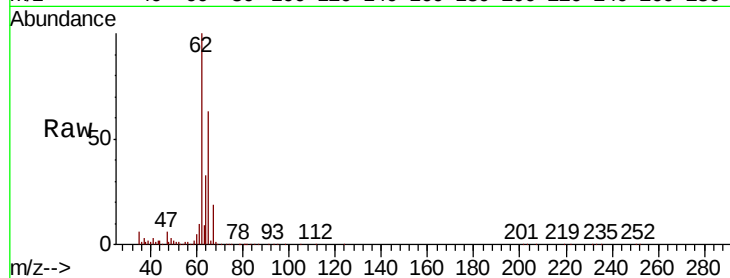
VSTD02501

Tot Ion: 62 Resp: 333275

Ion Ratio Lower Upper

62 100

64 33.3 21.8 40.4



#6

Bromomethane

Concen: 25.444 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014472.D

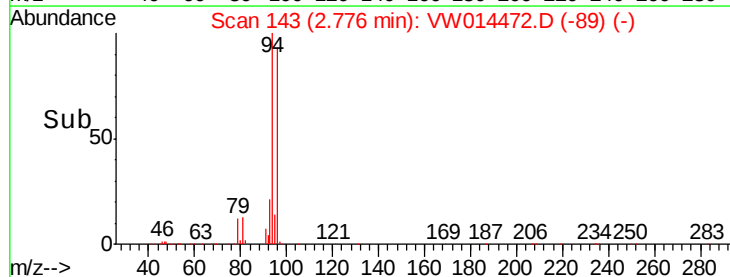
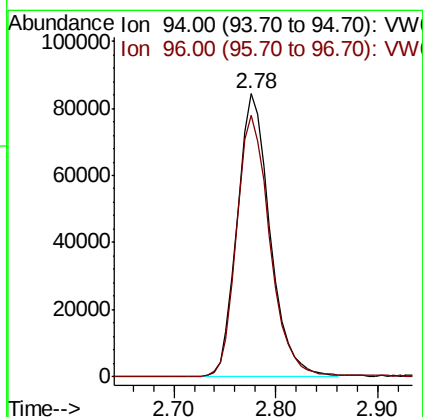
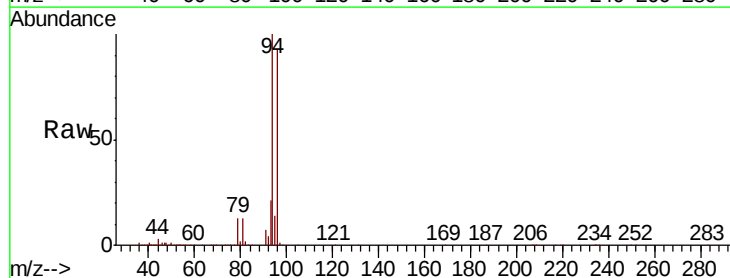
Acq: 20 Dec 2019 15:12

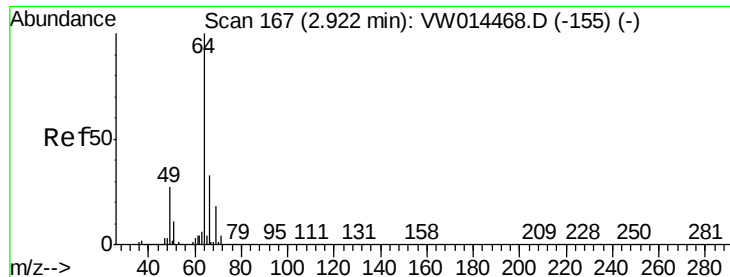
Tgt Ion: 94 Resp: 188538

Ion Ratio Lower Upper

94 100

96 93.5 9.4 178.8





#8

Chloroethane

Concen: 27.949 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

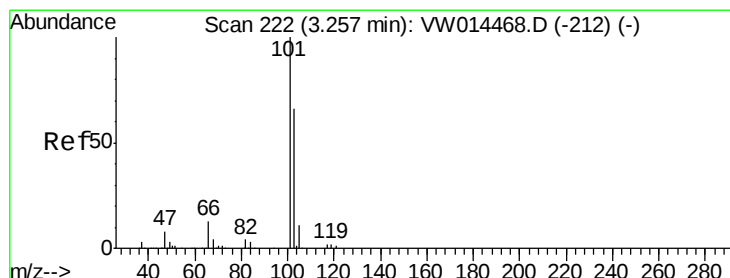
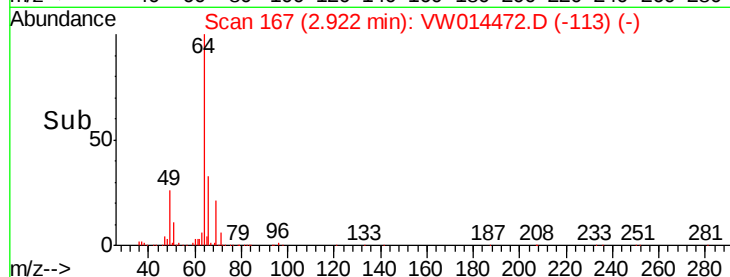
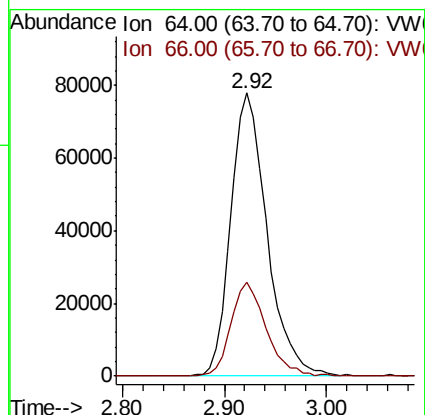
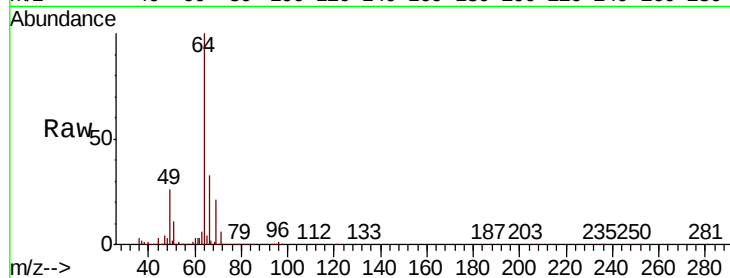
VSTD02501

Tot Ion: 64 Resp: 191813

Ion Ratio Lower Upper

64 100

66 33.0 21.2 39.4



#9

Trichlorofluoromethane

Concen: 28.635 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014472.D

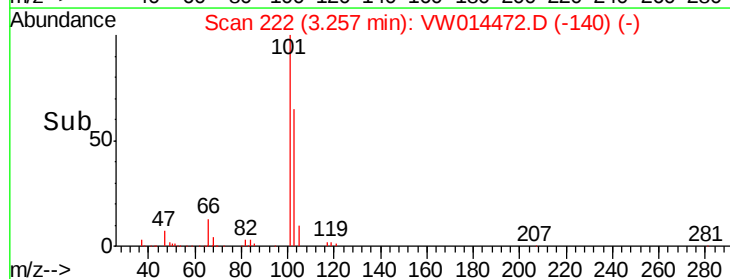
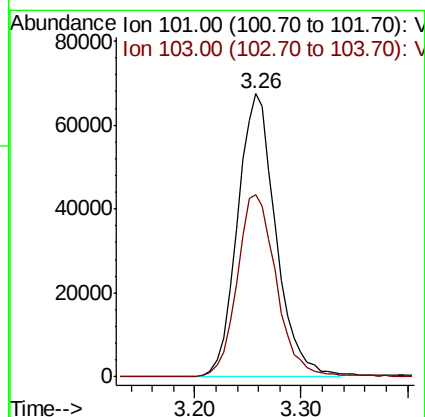
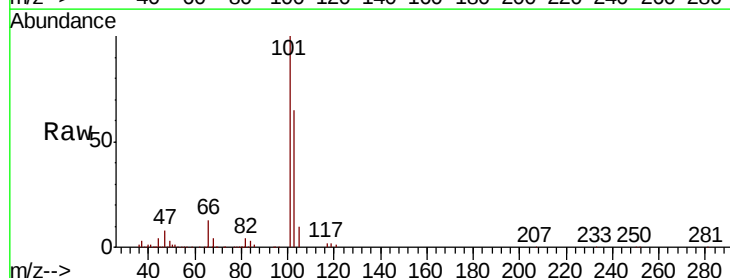
Acq: 20 Dec 2019 15:12

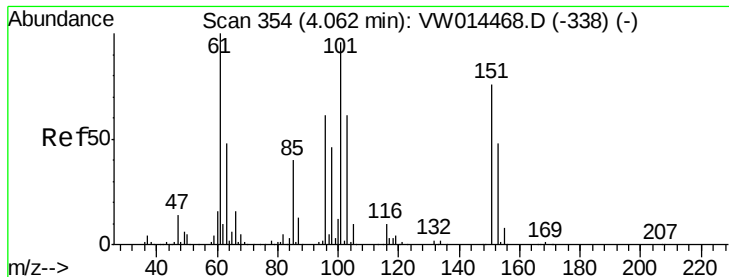
Tgt Ion: 101 Resp: 170293

Ion Ratio Lower Upper

101 100

103 65.8 45.4 84.2





#11

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

Concen: 27.450 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02501

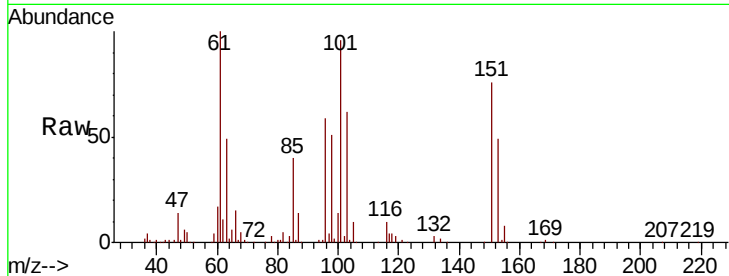
Tot Ion:101 Resp: 307230

Ion Ratio Lower Upper

101 100

85 42.1 31.4 47.2

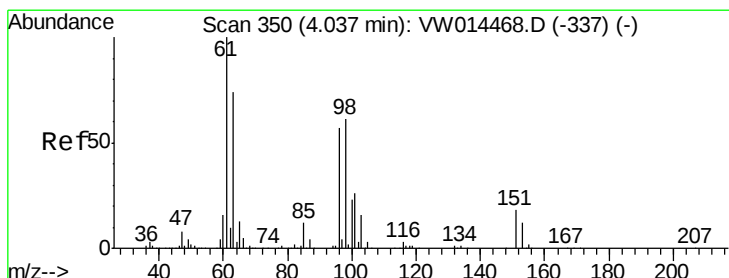
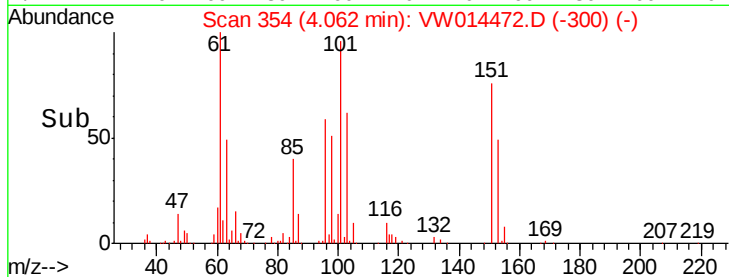
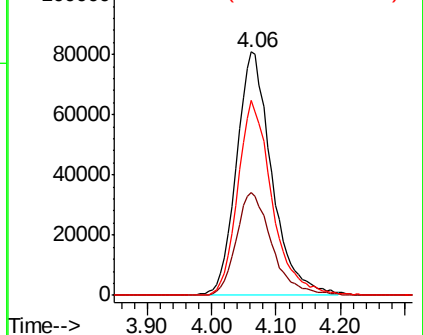
151 77.5 66.9 100.3



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: 25.835 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

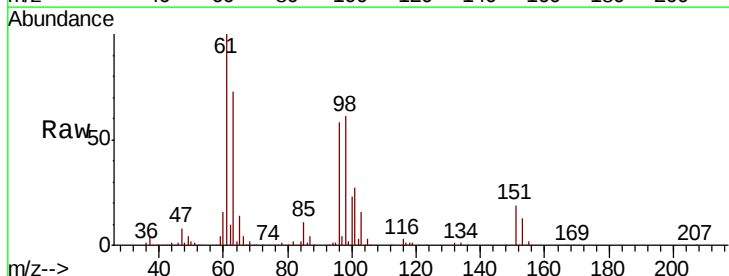
Tgt Ion: 96 Resp: 292746

Ion Ratio Lower Upper

96 100

61 172.5 109.8 204.0

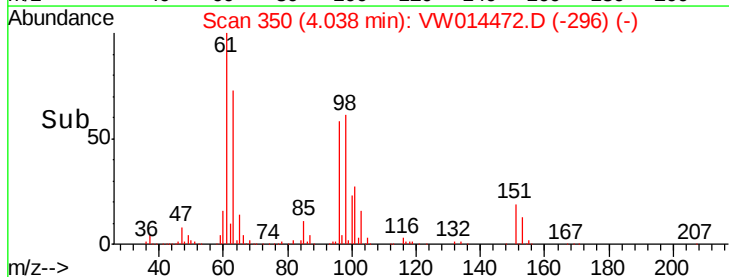
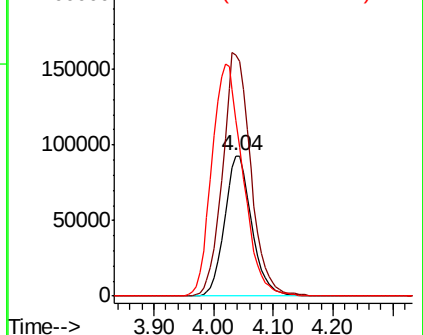
63 125.9 80.7 149.9

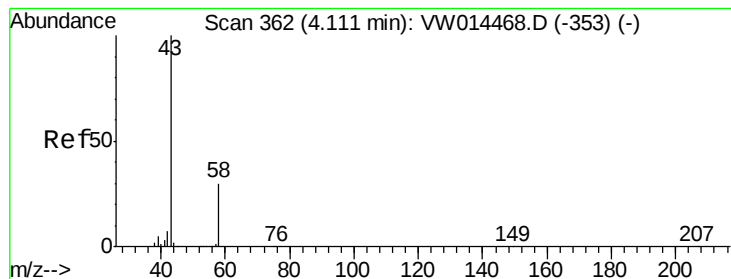


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 57.493 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.01 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

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ClientSampleId :

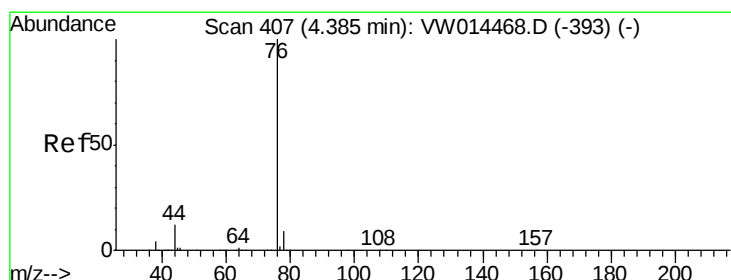
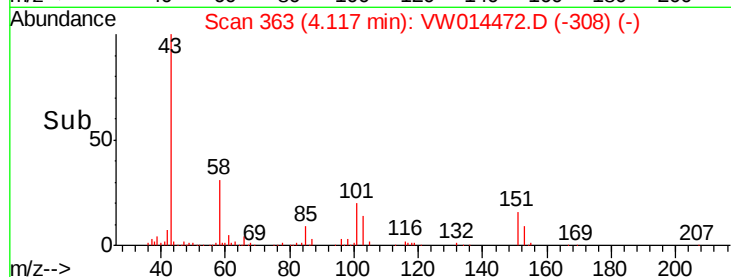
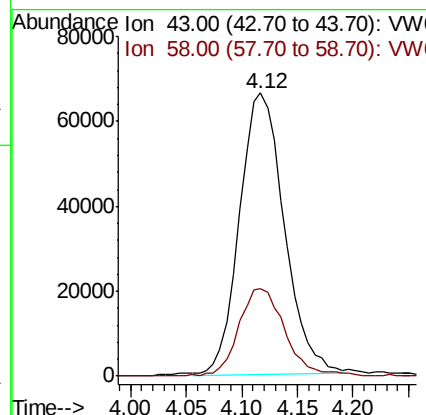
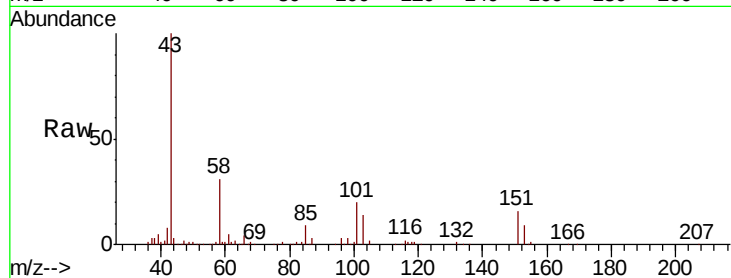
VSTD02501

Tot Ion: 43 Resp: 185606

Ion Ratio Lower Upper

43 100

58 30.4 0.0 65.4



#14

Carbon disulfide

Concen: 23.933 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW014472.D

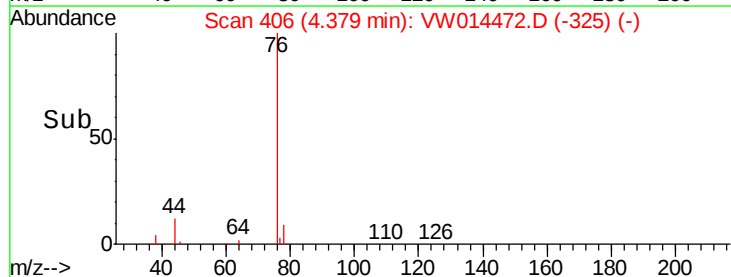
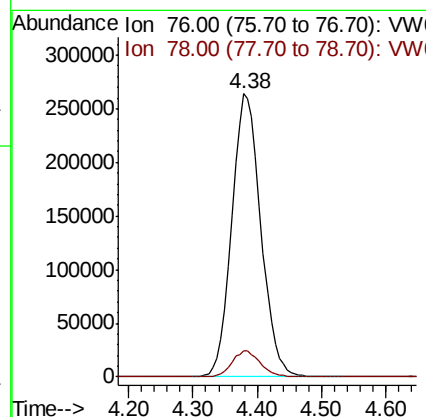
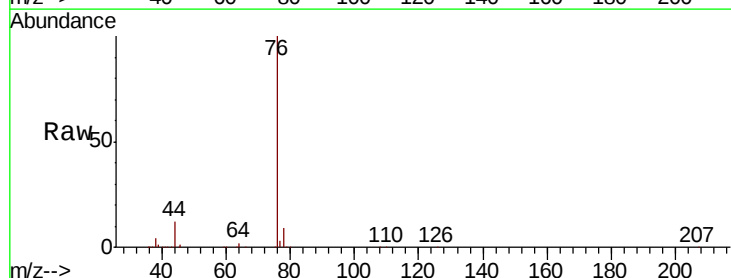
Acq: 20 Dec 2019 15:12

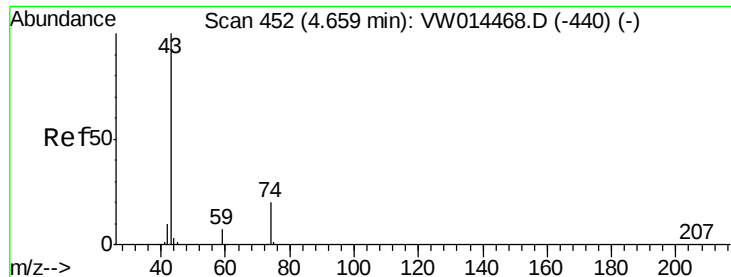
Tgt Ion: 76 Resp: 831743

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8

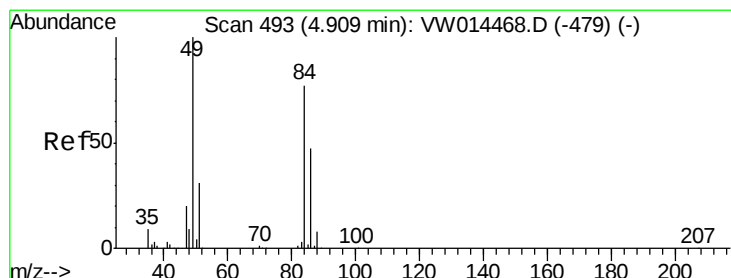
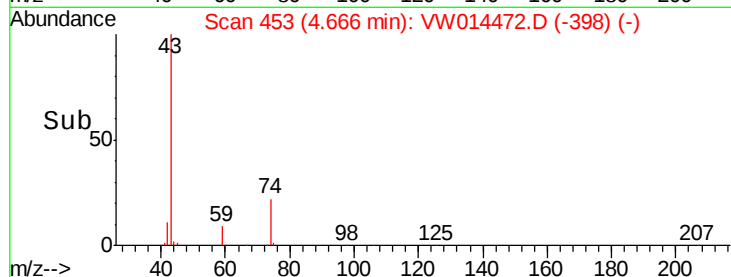
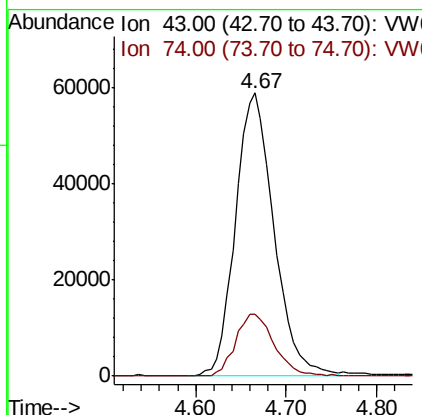
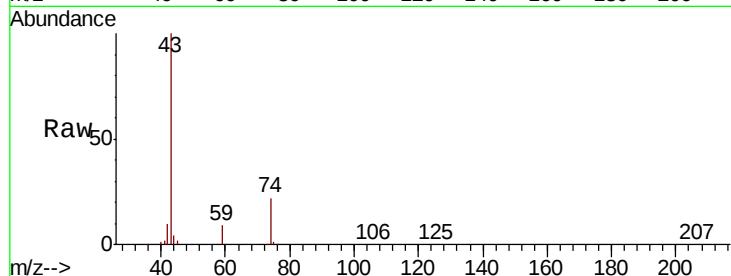




#15
Methvl Acetate
Concen: 28.244 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

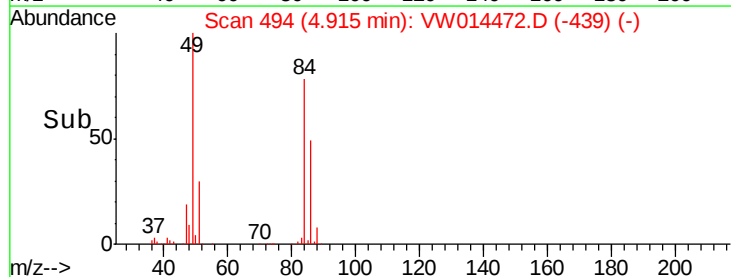
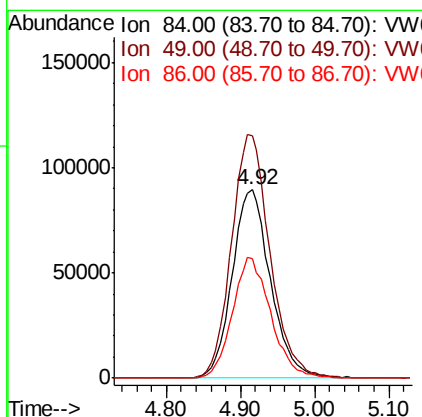
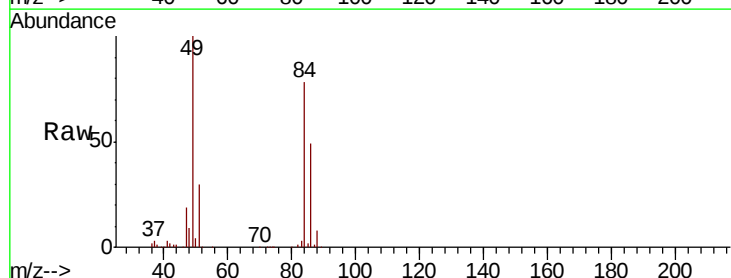
Instrument :
MSVOA_W
ClientSampleId :
VSTD02501

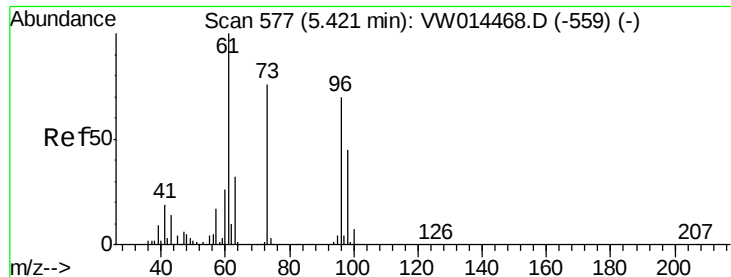
Tot Ion: 43 Resp: 172469
Ion Ratio Lower Upper
43 100
74 22.0 19.3 28.9



#16
Methylene chloride
Concen: 24.780 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion: 84 Resp: 322338
Ion Ratio Lower Upper
84 100
49 128.3 84.2 156.4
86 63.4 43.7 81.1

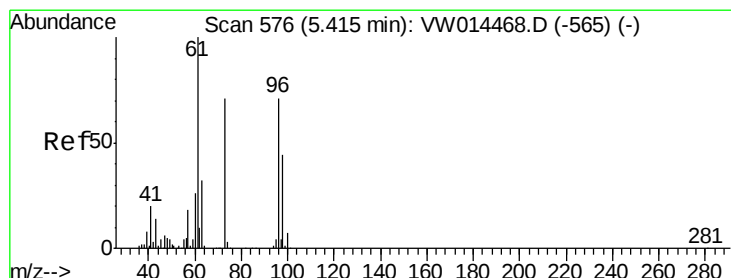
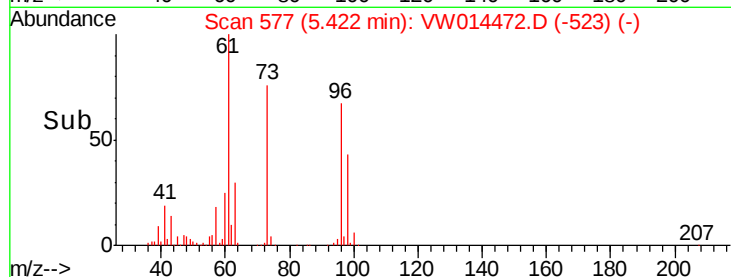
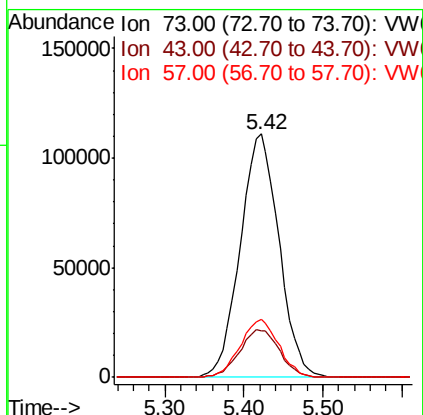
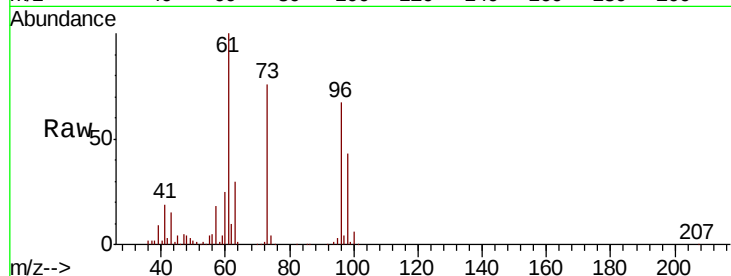




#17
Methvl tert-butvl Ether
Concen: 25.402 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

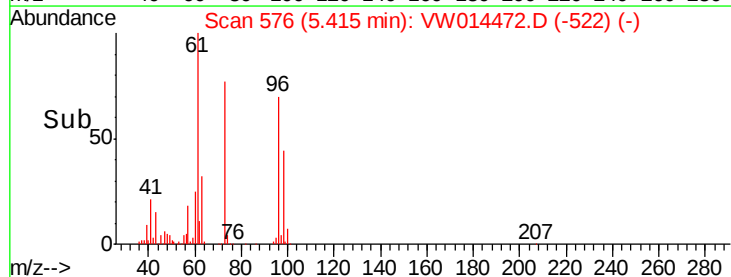
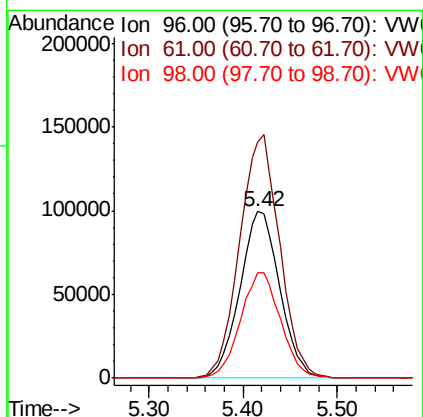
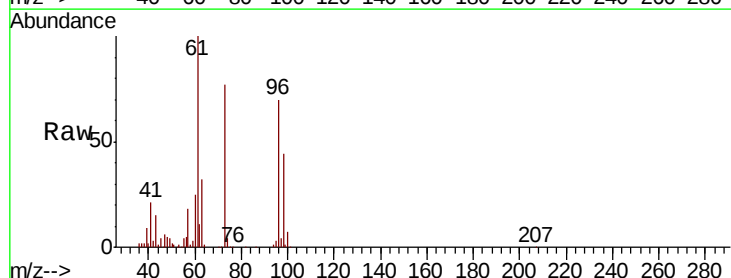
Instrument :
MSVOA_W
ClientSampled :
VSTD02501

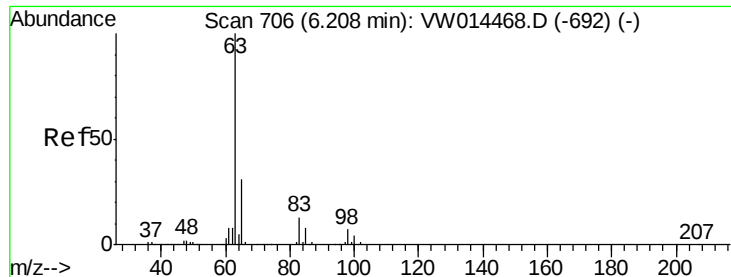
Tot Ion: 73 Resp: 379578
Ion Ratio Lower Upper
73 100
43 20.0 15.5 23.3
57 23.6 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 24.320 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion: 96 Resp: 295111
Ion Ratio Lower Upper
96 100
61 142.0 90.6 168.2
98 63.1 42.9 79.7

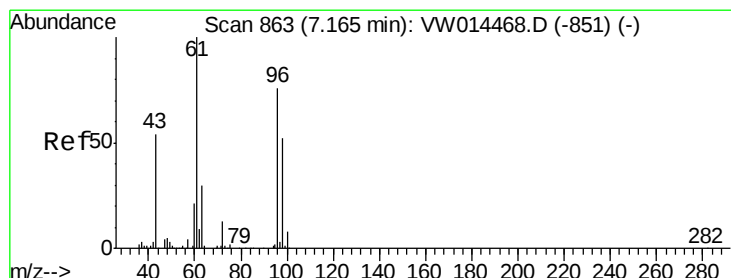
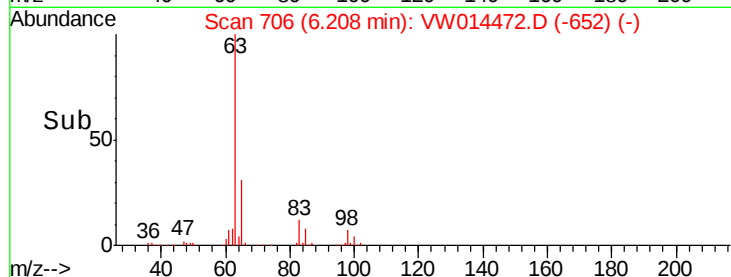
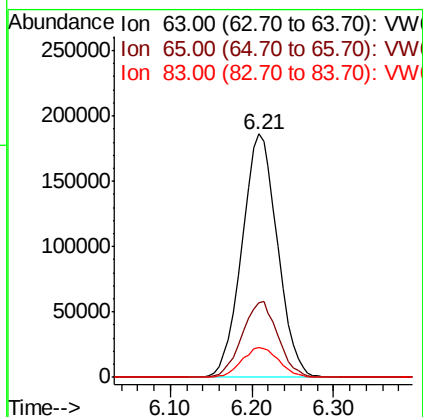
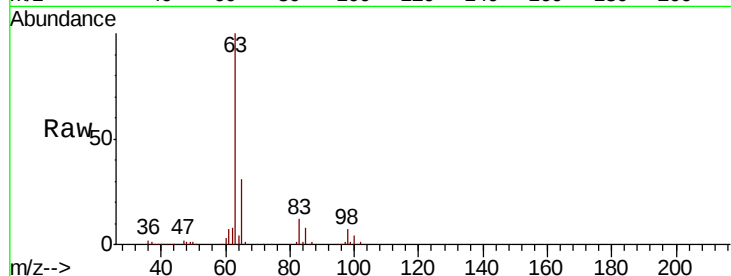




#19
 1,1-Dichloroethane
 Concen: 25.820 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

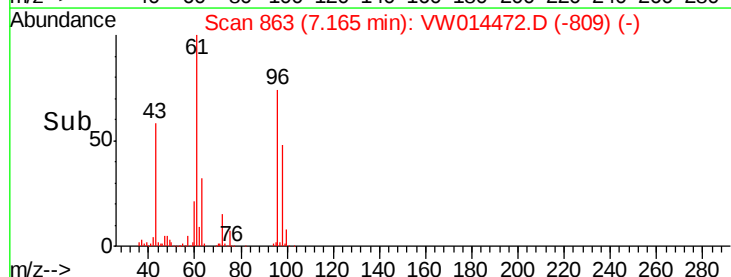
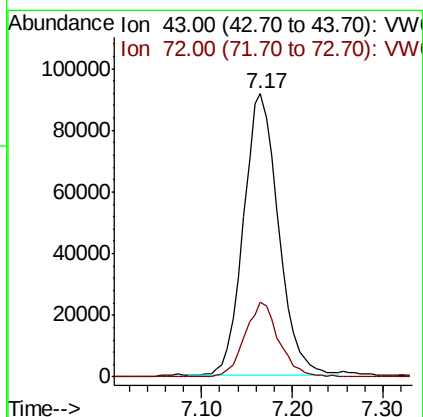
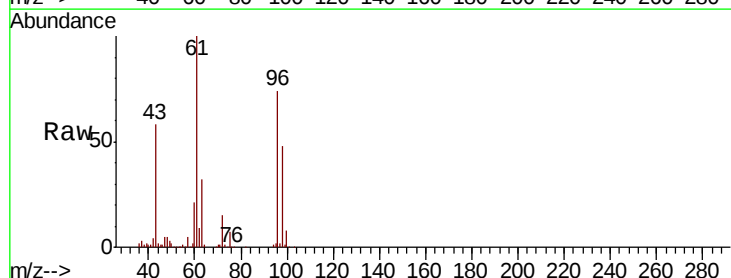
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02501

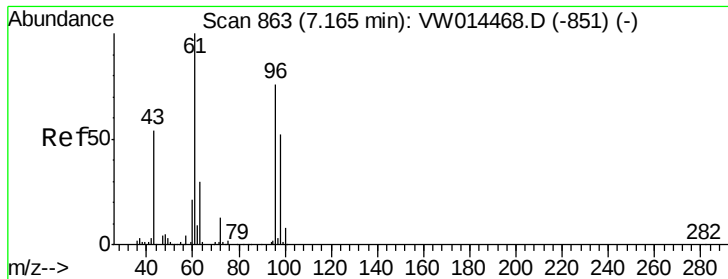
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	22.1	41.1
83	12.3	9.0	16.6



#21
 2-Butanone
 Concen: 56.251 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.8	14.1	42.2



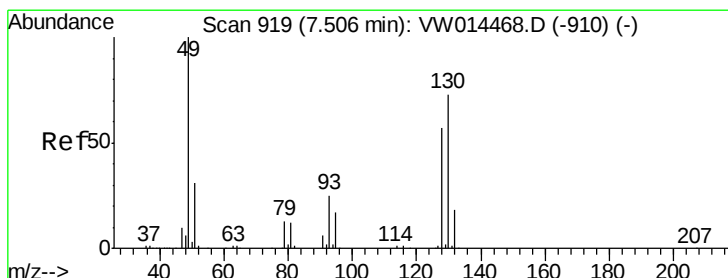
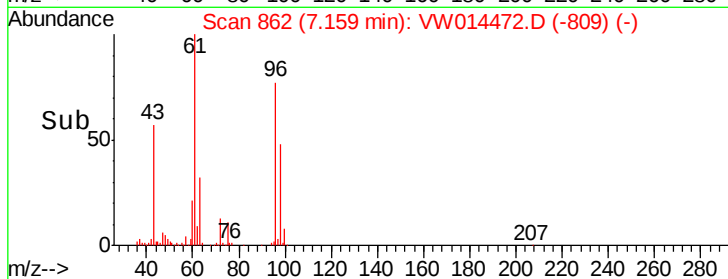
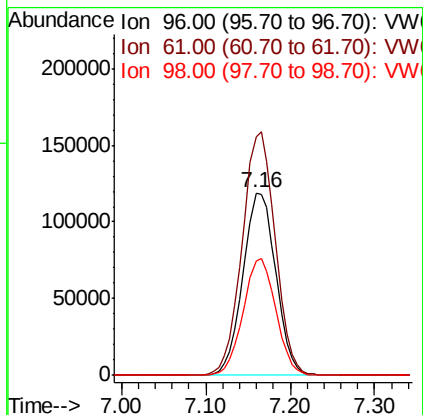
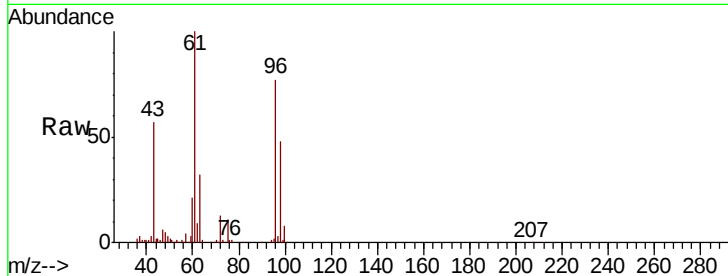


#22

cis-1,2-Dichloroethene
 Concen: 24.325 ug/L
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02501

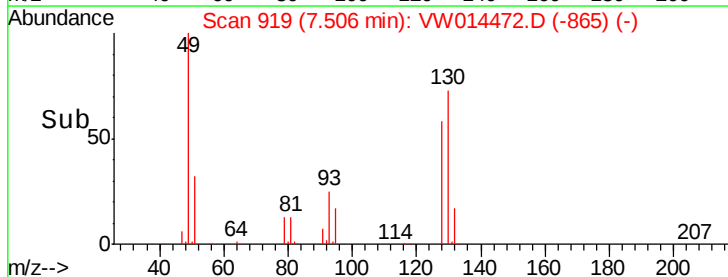
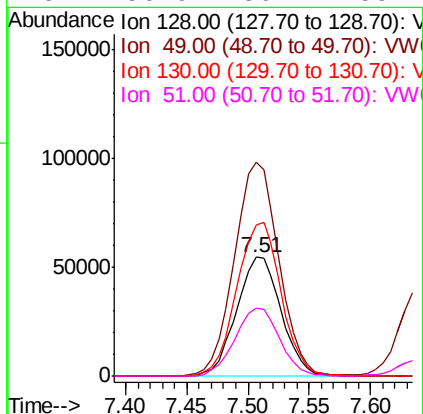
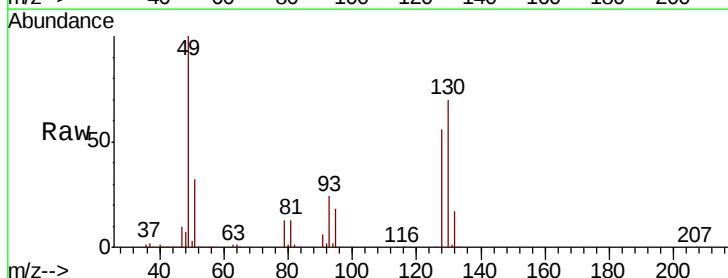
Tot Ion	Ratio	Lower	Upper
96	100		
61	130.6	86.9	161.5
98	62.7	45.5	84.5

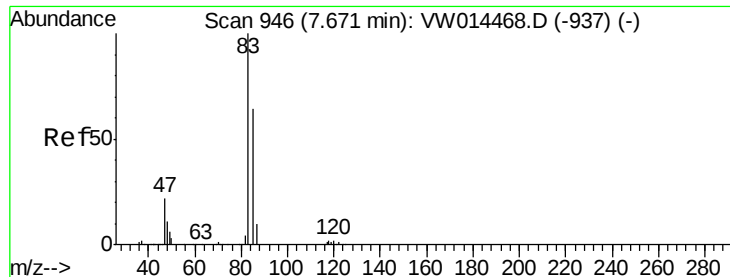


#23

Bromochloromethane
 Concen: 23.239 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Tgt Ion	Ratio	Lower	Upper
128	100		
49	179.9	95.1	176.5#
130	126.8	85.0	158.0
51	56.9	36.7	55.1#

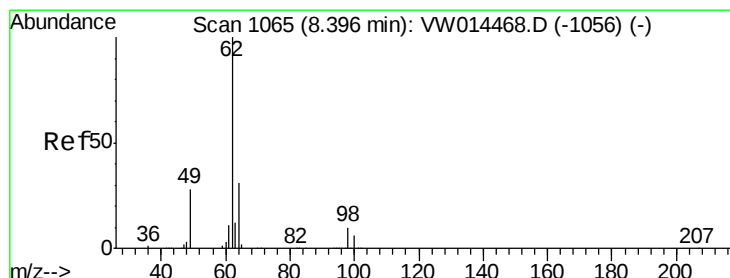
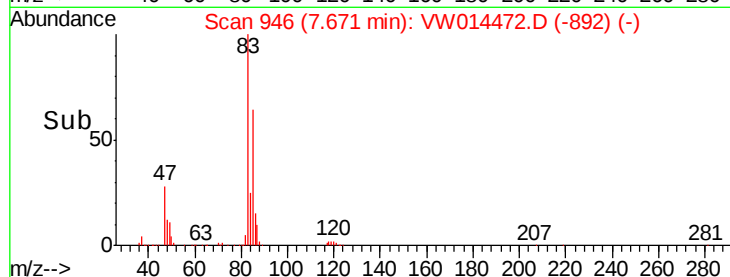
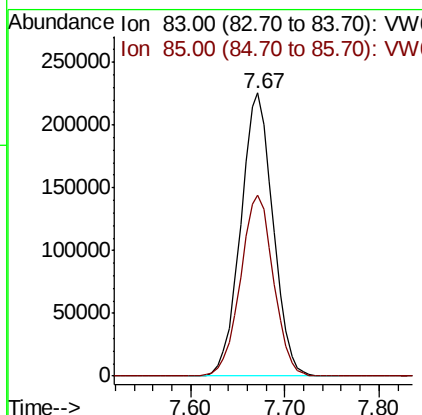
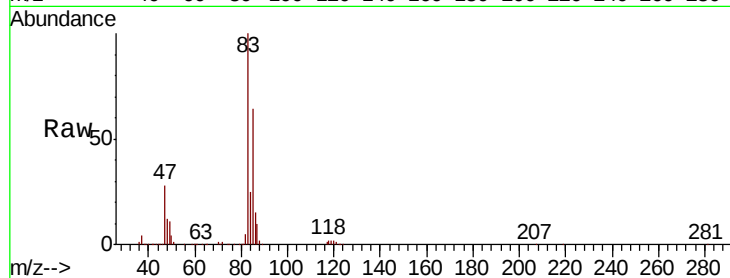




#25
Chloroform
Concen: 25.475 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

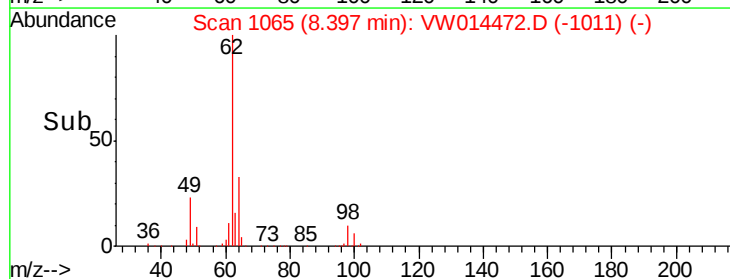
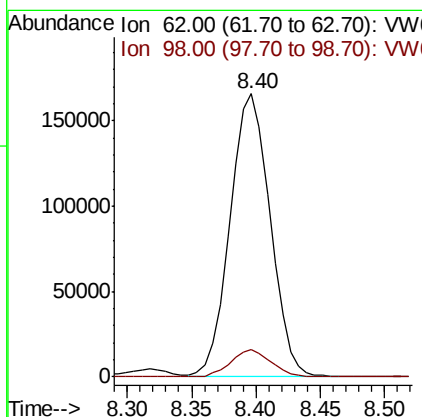
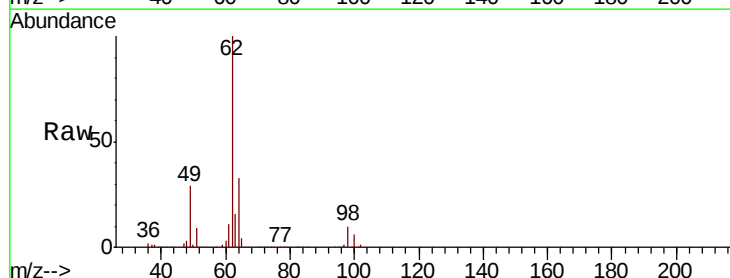
Instrument :
MSVOA_W
ClientSampleId :
VSTD02501

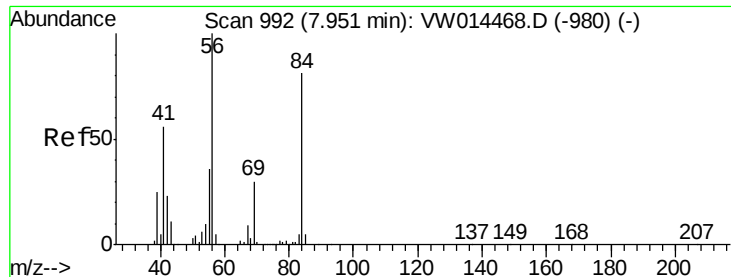
Tot Ion: 83 Resp: 539717
Ion Ratio Lower Upper
83 100
85 65.5 46.1 85.7



#27
1,2-Dichloroethane
Concen: 25.938 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion: 62 Resp: 359835
Ion Ratio Lower Upper
62 100
98 9.5 9.3 13.9

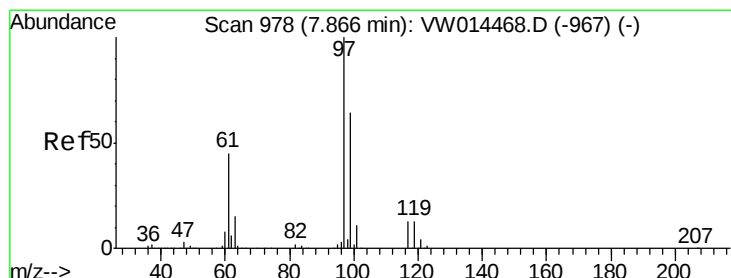
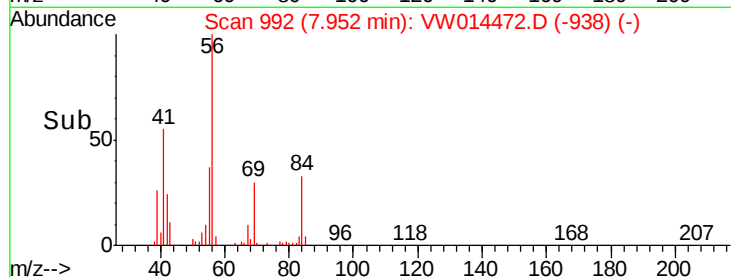
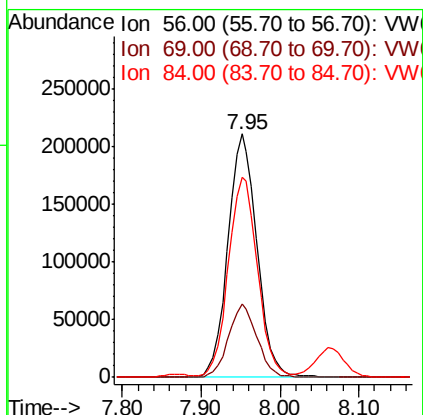
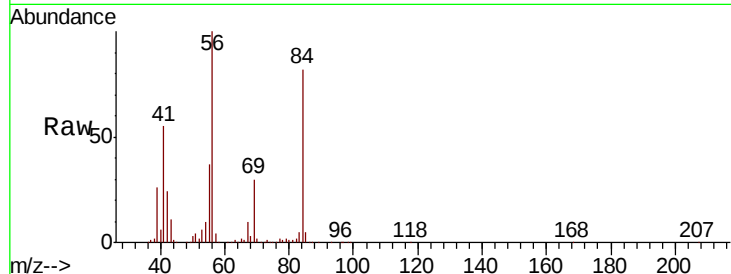




#30
Cyclohexane
Concen: 28.587 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

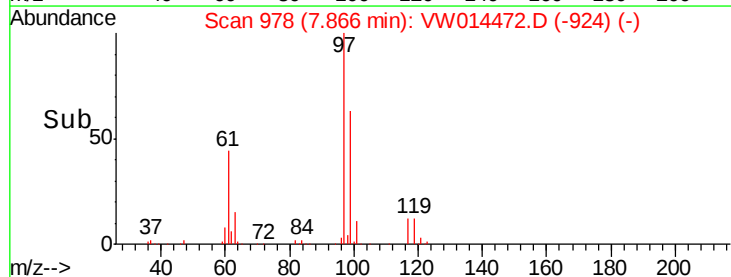
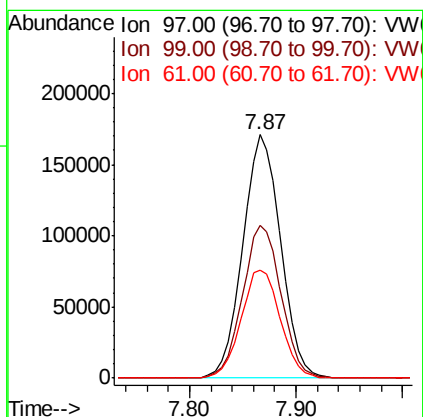
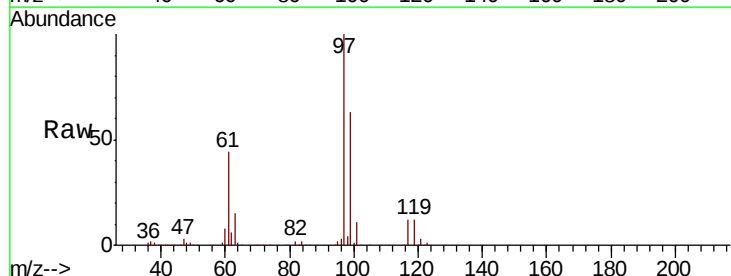
Instrument :
MSVOA_W
ClientSampleId :
VSTD02501

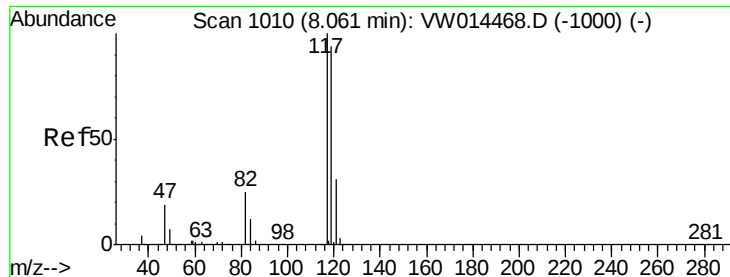
Tot Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.6	37.0
84	82.8	70.2	105.2



#31
1,1,1-Trichloroethane
Concen: 28.094 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.1	76.7
61	46.0	32.8	49.2





#32

Carbon tetrachloride

Concen: 28.171 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

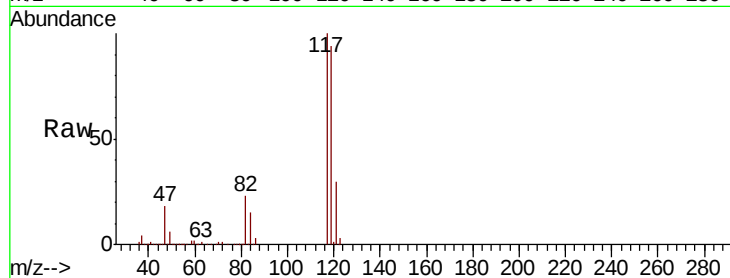
VSTD02501

Tot Ion:117 Resp: 406039

Ion Ratio Lower Upper

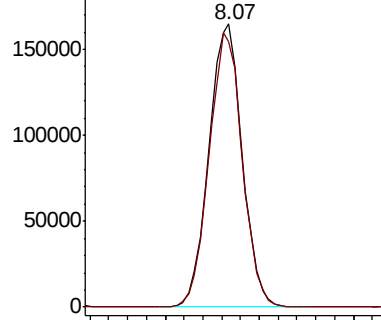
117 100

119 96.5 76.7 115.1

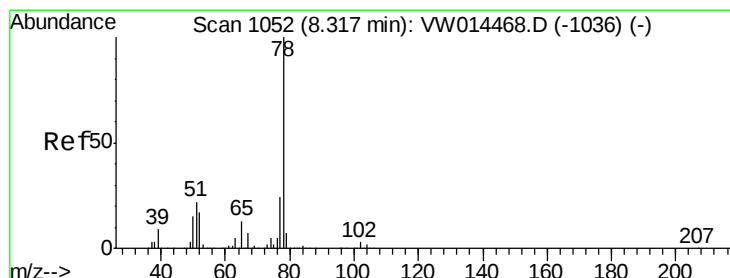
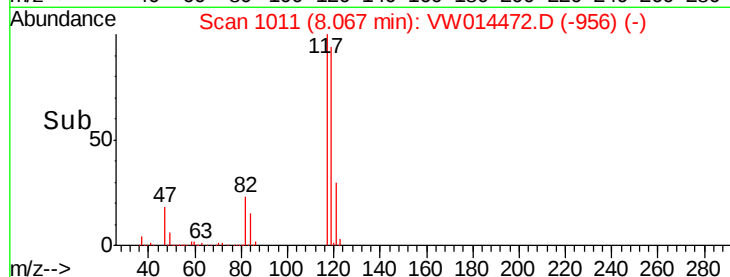


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#34

Benzene

Concen: 26.069 ug/L

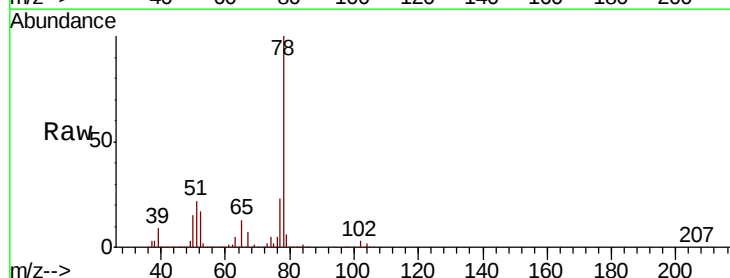
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

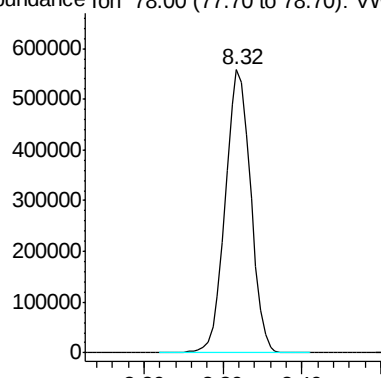
Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

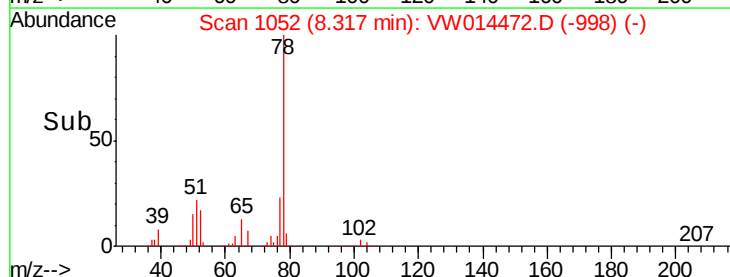
Tgt Ion: 78 Resp: 1248520

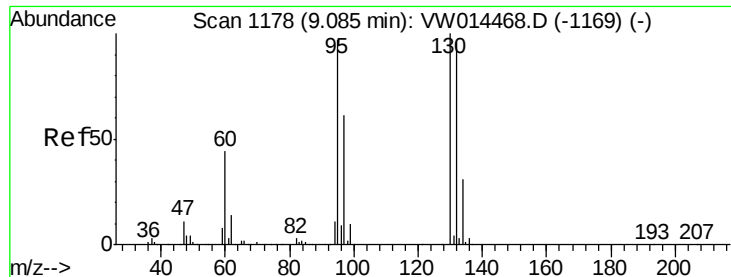


Abundance Ion 78.00 (77.70 to 78.70): VW



Time-->

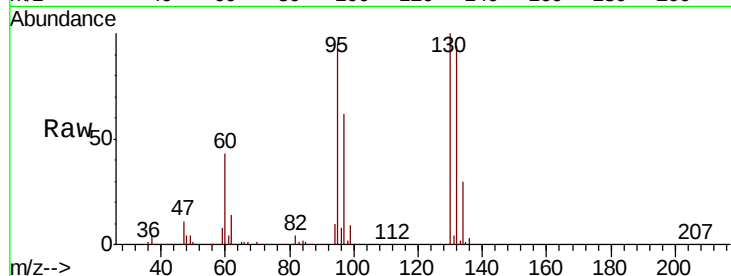




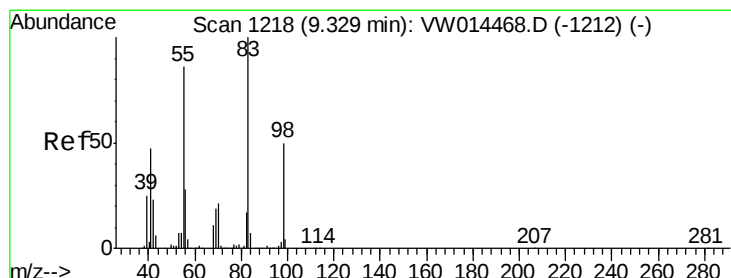
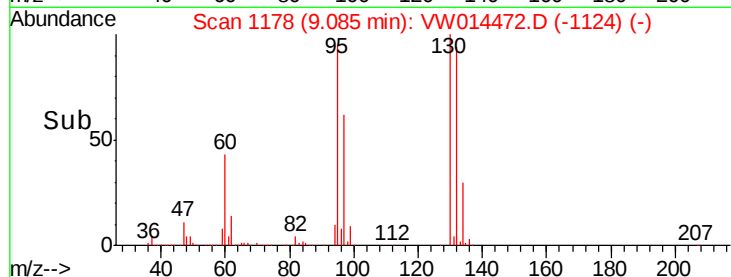
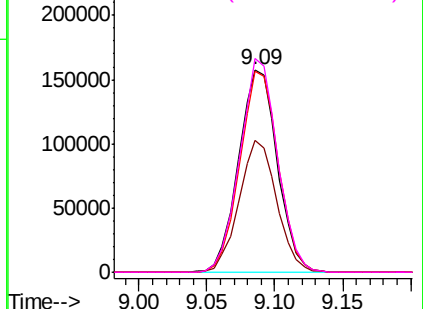
#35
 Trichloroethene
 Concen: 25.612 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTD02501

Tot Ion:	95	Resp:	313851
Ion	Ratio	Lower	Upper
95	100		
97	63.2	45.1	83.9
132	98.5	73.7	136.9
130	102.9	76.6	142.2

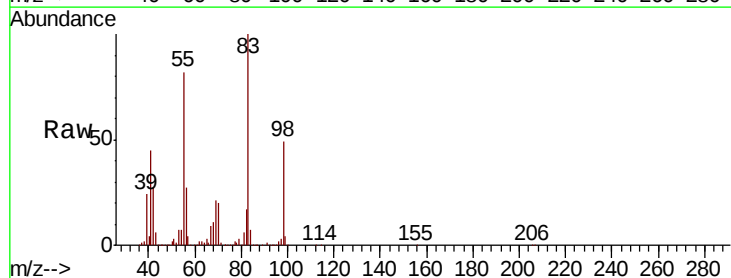


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

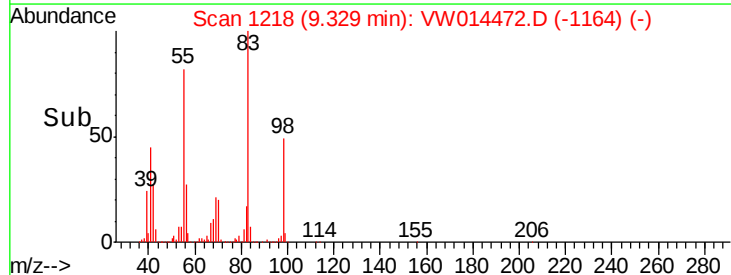
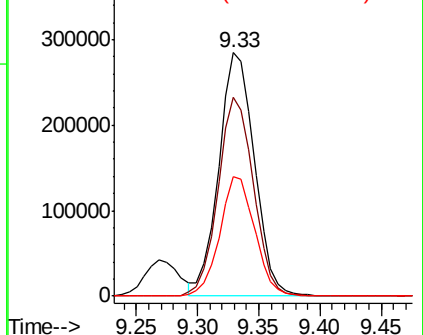


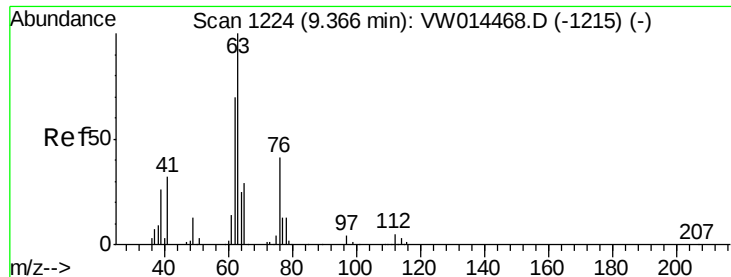
#36
 Methylcyclohexane
 Concen: 27.852 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Tgt Ion:	83	Resp:	573516
Ion	Ratio	Lower	Upper
83	100		
55	81.4	59.8	89.8
98	48.3	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: 25.599 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

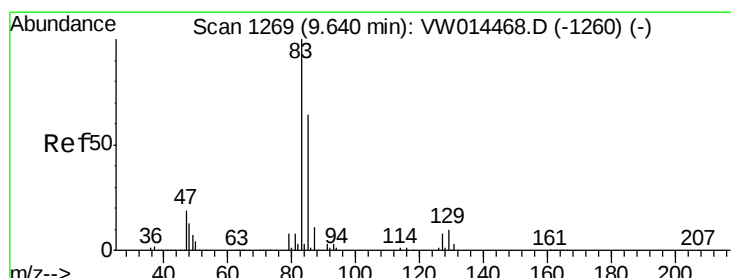
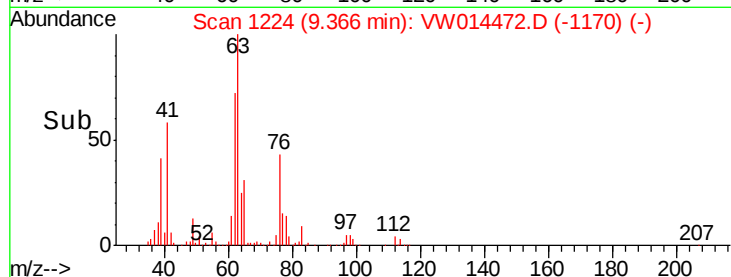
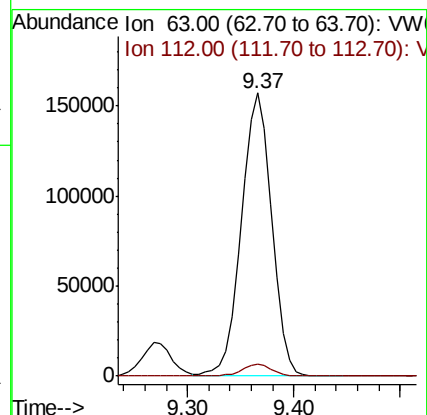
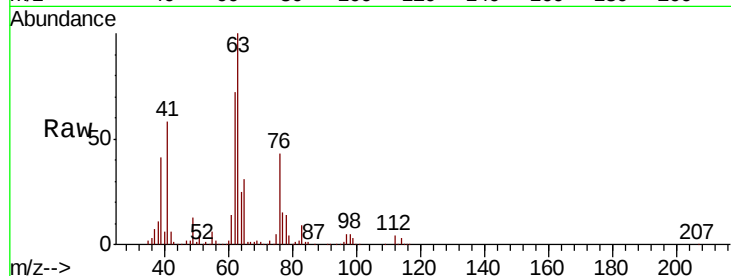
VSTD02501

Tot Ion: 63 Resp: 314971

Ion Ratio Lower Upper

63 100

112 4.4 3.9 5.9



#41

Bromodichloromethane

Concen: 25.248 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

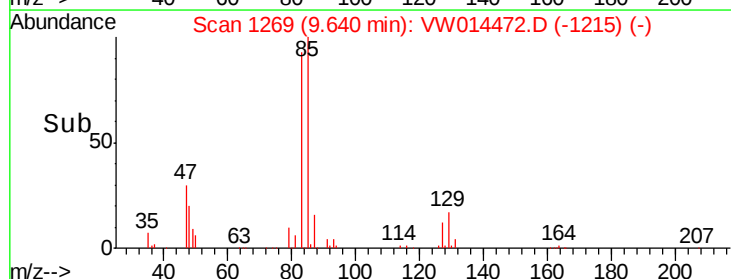
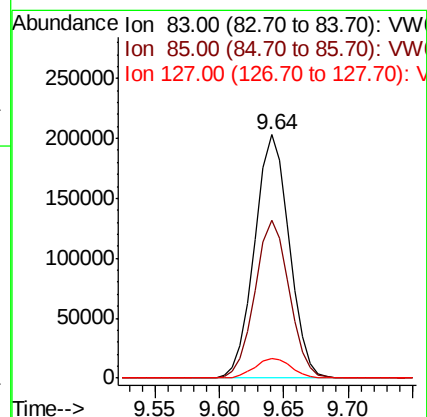
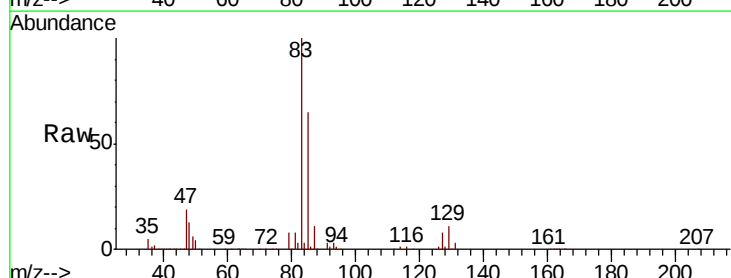
Tgt Ion: 83 Resp: 377532

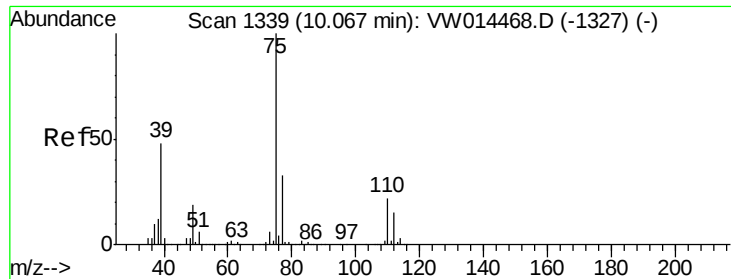
Ion Ratio Lower Upper

83 100

85 65.1 45.1 83.7

127 7.9 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 25.285 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

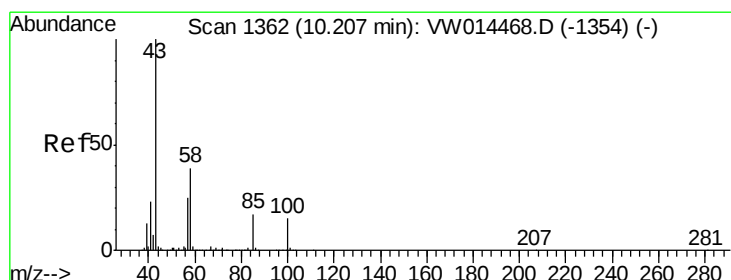
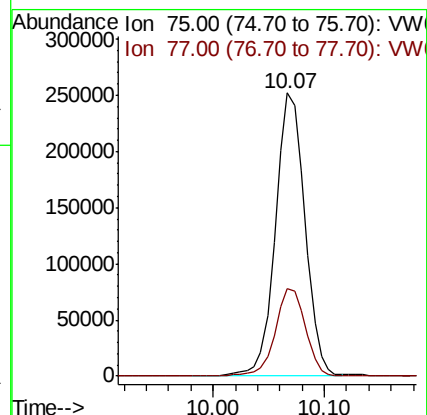
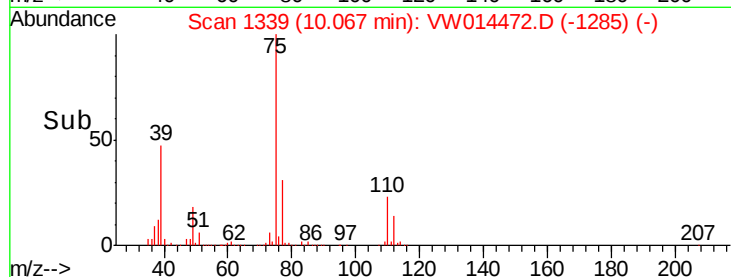
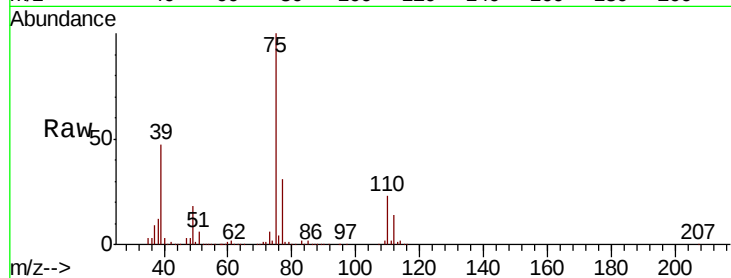
VSTD02501

Tot Ion: 75 Resp: 465908

Ion Ratio Lower Upper

75 100

77 31.0 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 57.482 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

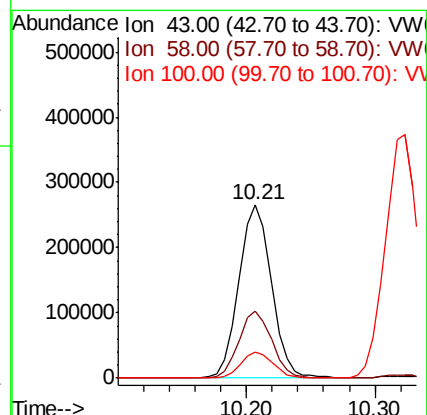
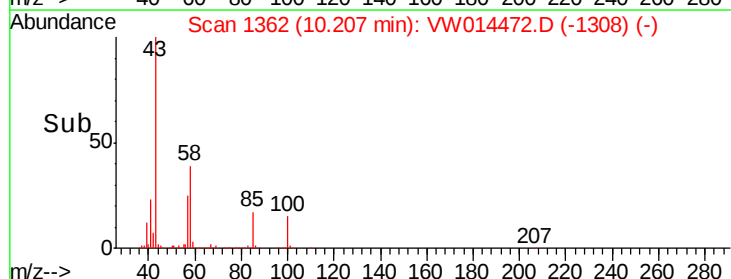
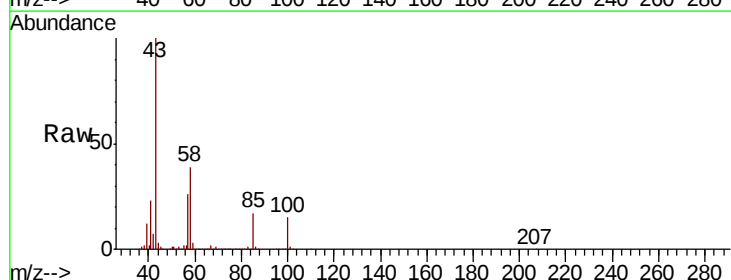
Tgt Ion: 43 Resp: 466382

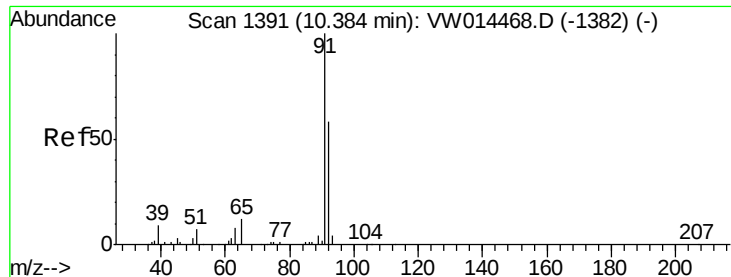
Ion Ratio Lower Upper

43 100

58 38.8 32.6 49.0

100 14.9 13.8 20.8





#44

Toluene

Concen: 25.903 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

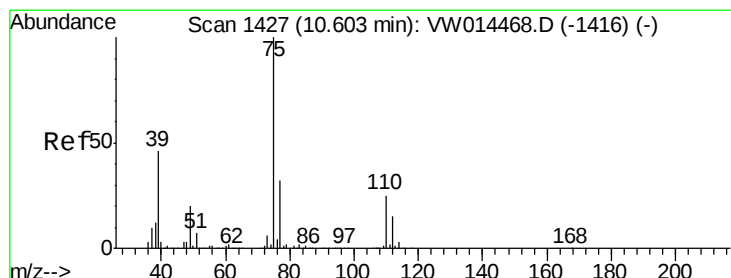
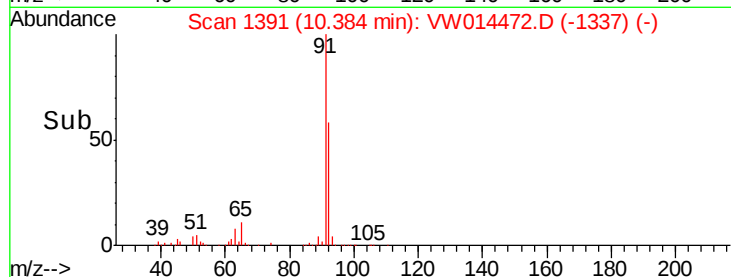
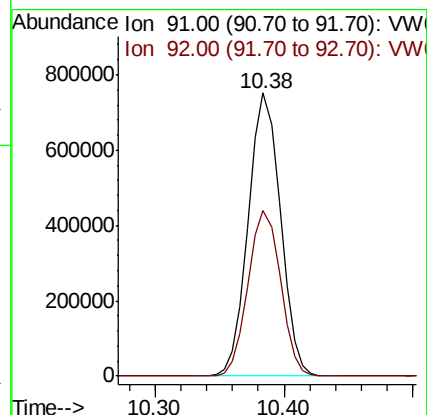
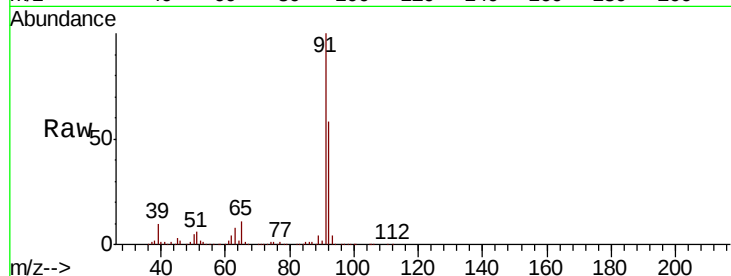
VSTD02501

Tot Ion: 91 Resp: 1300626

Ion Ratio Lower Upper

91 100

92 58.4 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 25.688 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014472.D

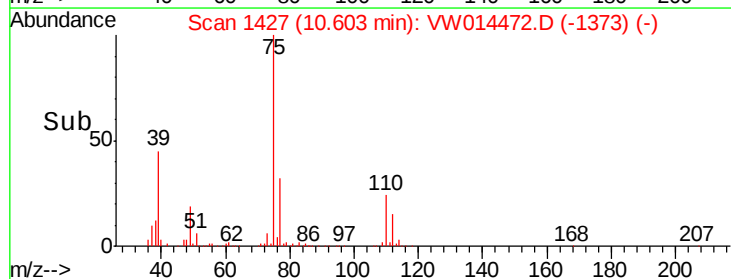
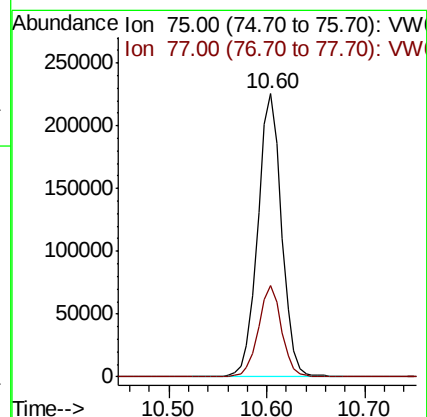
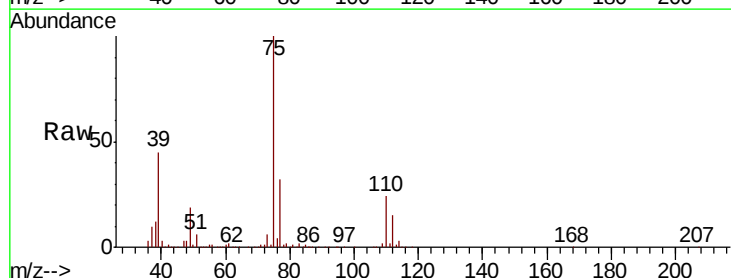
Acq: 20 Dec 2019 15:12

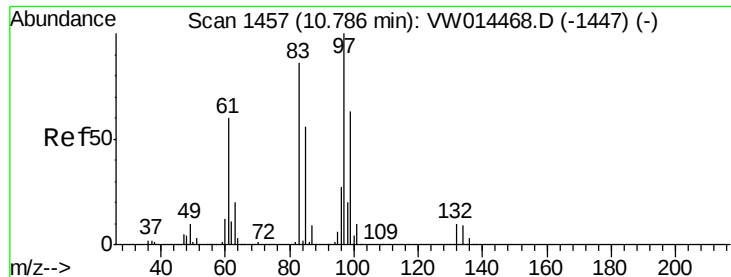
Tgt Ion: 75 Resp: 383147

Ion Ratio Lower Upper

75 100

77 32.3 21.8 40.6

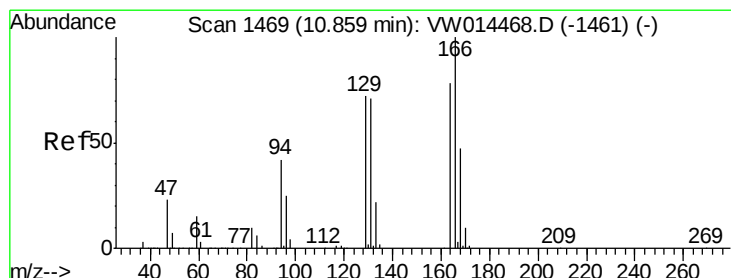
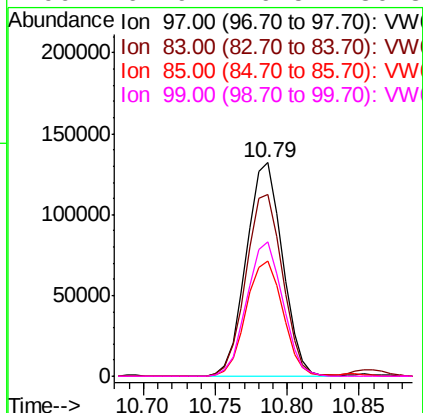
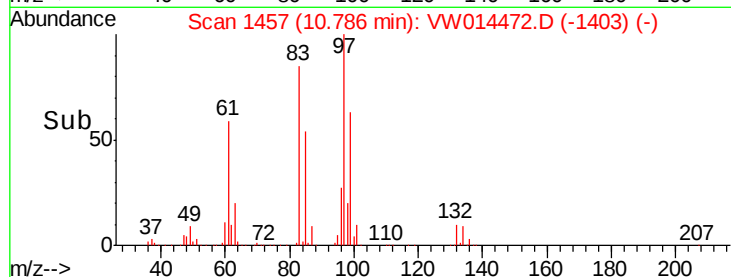
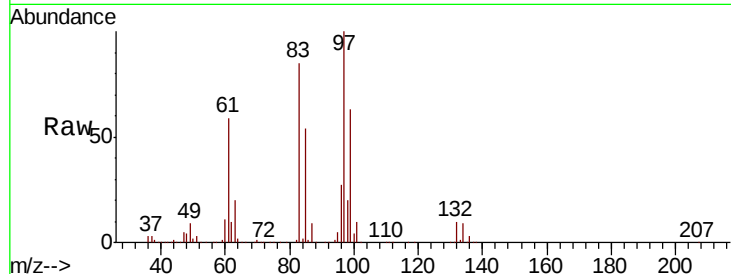




#46
1,1,2-Trichloroethane
Concen: 24.999 ug/L
RT: 10.79 min Scan# 1457
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

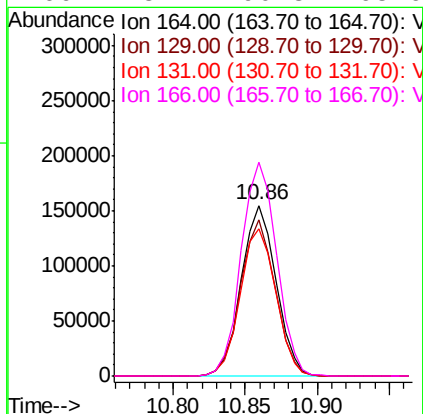
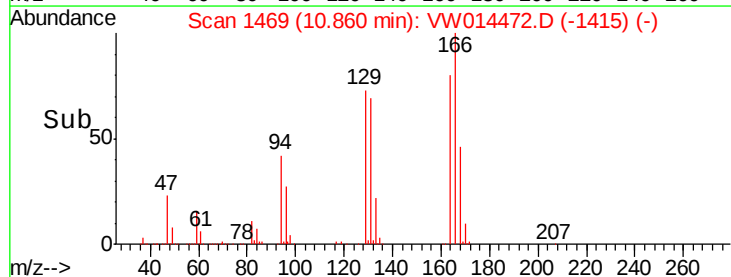
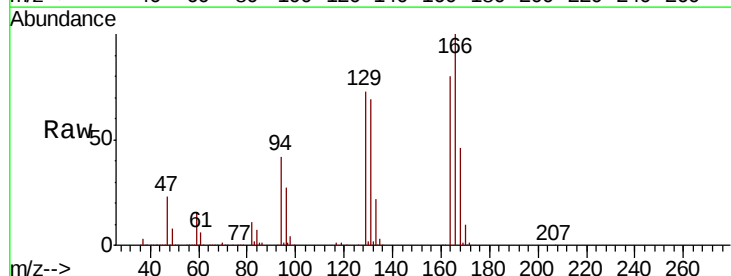
Instrument :
MSVOA_W
ClientSampleId :
VSTD02501

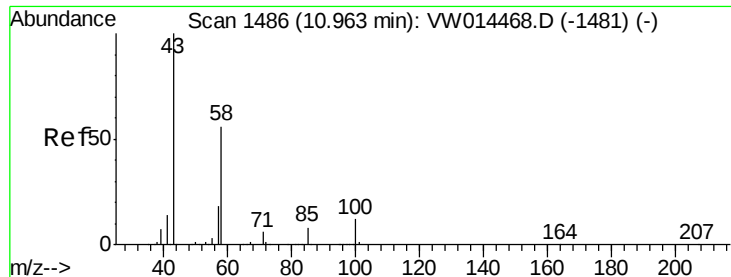
Tot Ion:	97	Resp:	230491
Ion	Ratio	Lower	Upper
97	100		
83	85.2	58.9	109.5
85	53.9	38.1	70.9
99	62.9	46.5	86.3



#47
Tetrachloroethene
Concen: 25.341 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion:	164	Resp:	258819
Ion	Ratio	Lower	Upper
164	100		
129	91.5	60.6	112.6
131	86.4	59.1	109.7
166	125.1	90.8	168.6

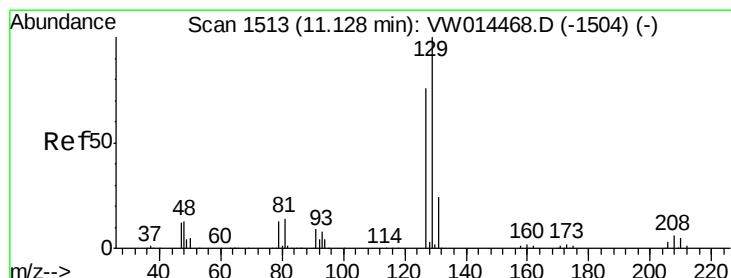
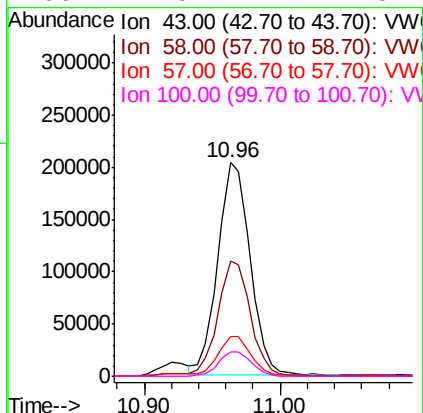
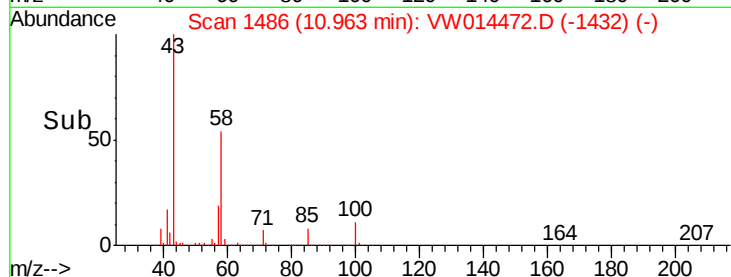
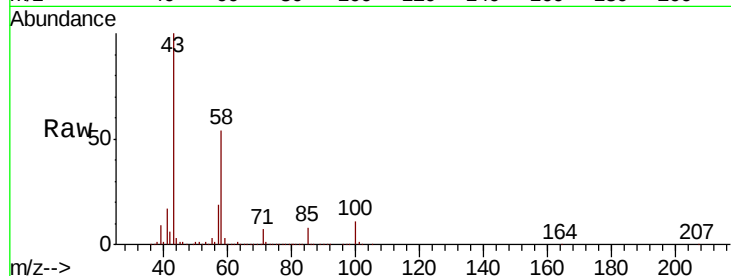




#49
2-Hexanone
Concen: 58.273 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

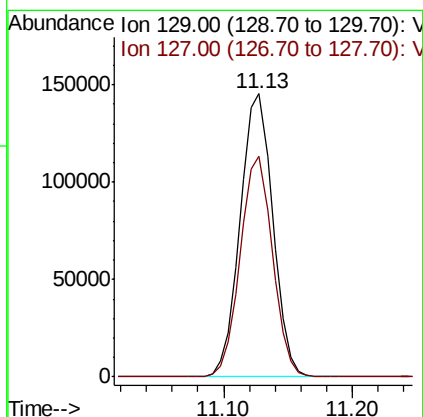
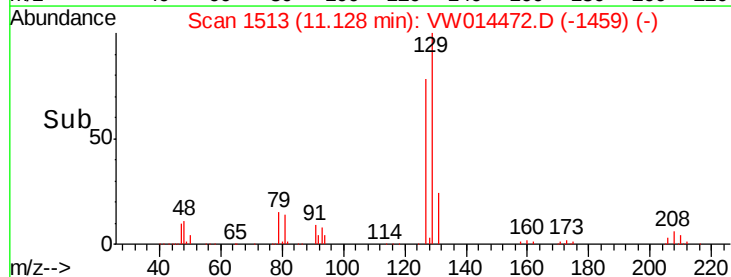
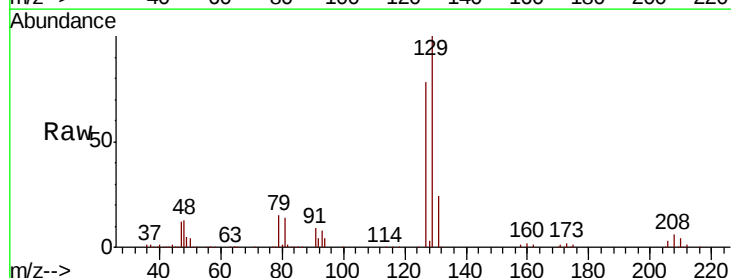
Instrument :
MSVOA_W
ClientSampleId :
VSTD02501

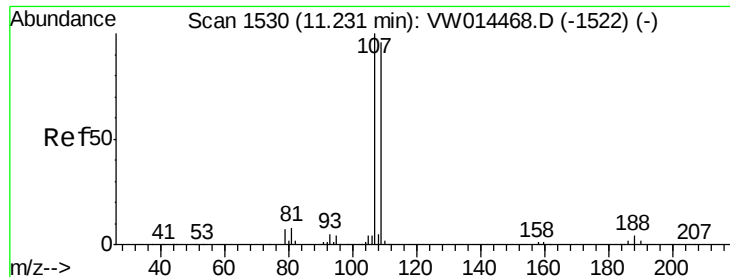
Tot Ion: 43 Resp: 336603
Ion Ratio Lower Upper
43 100
58 56.0 44.4 66.6
57 19.0 16.5 24.7
100 12.0 11.1 16.7



#50
Dibromochloromethane
Concen: 24.632 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion: 129 Resp: 254888
Ion Ratio Lower Upper
129 100
127 77.7 54.9 102.1

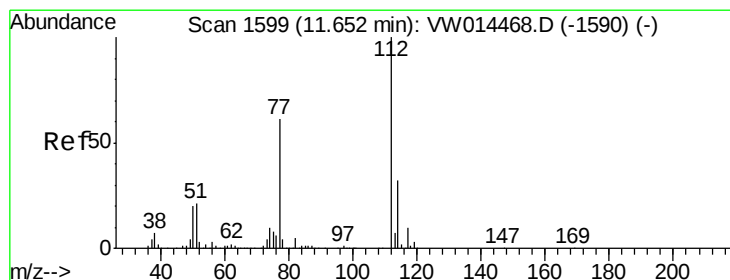
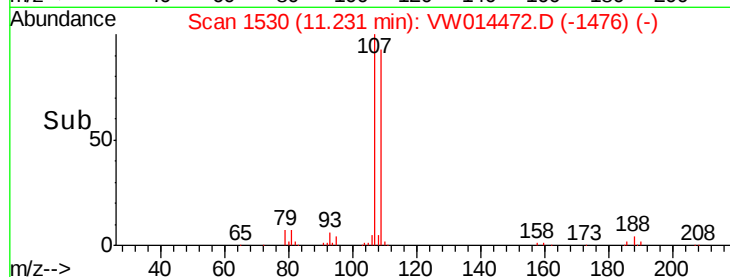
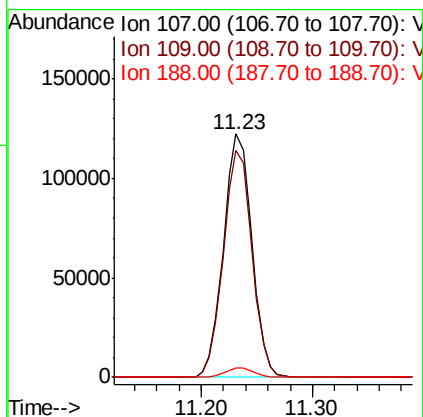
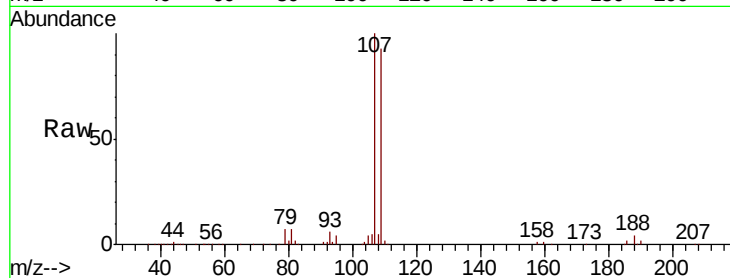




#51
1,2-Dibromoethane
Concen: 24.831 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

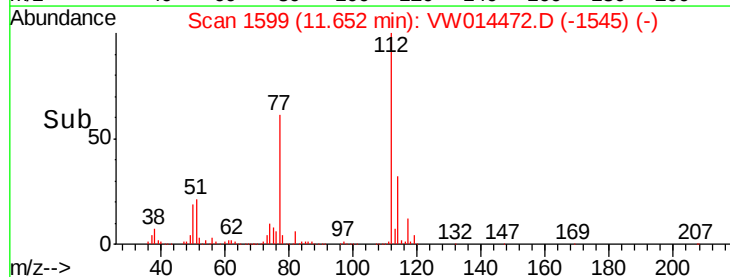
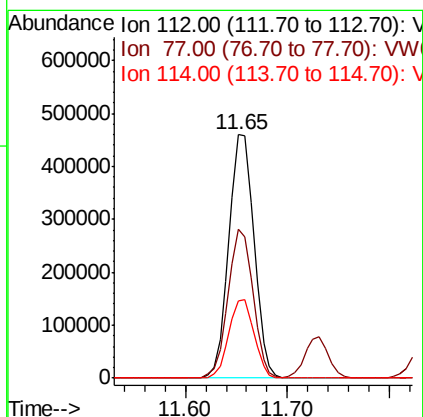
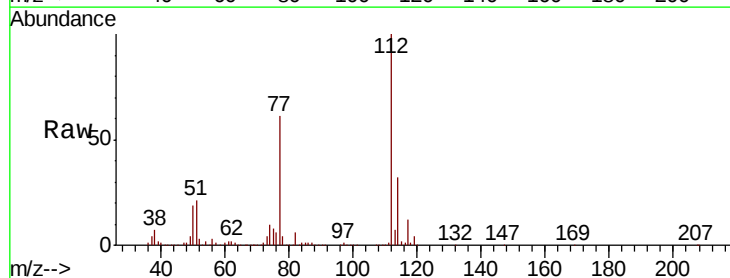
Instrument :
MSVOA_W
ClientSampleId :
VSTD02501

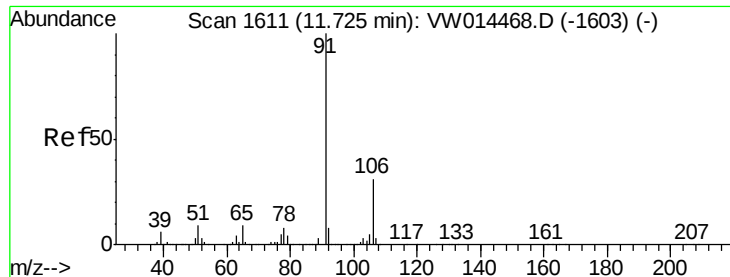
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	64.6	120.0
188	4.1	3.9	5.9



#52
Chlorobenzene
Concen: 24.281 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion	Ratio	Lower	Upper
112	100		
77	61.0	42.2	63.4
114	31.8	22.5	41.9





#53

Ethylbenzene

Concen: 26.286 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

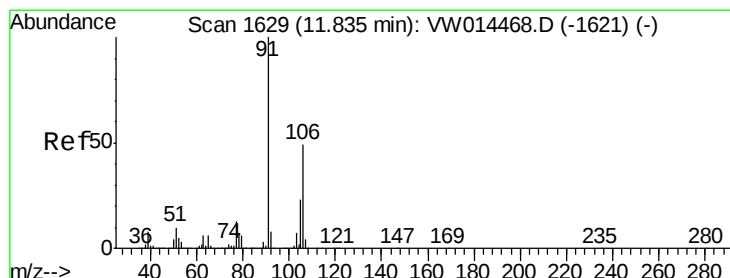
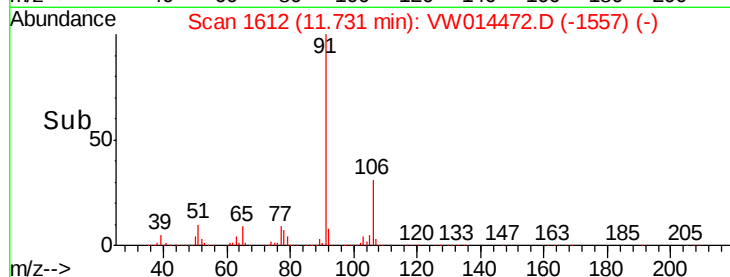
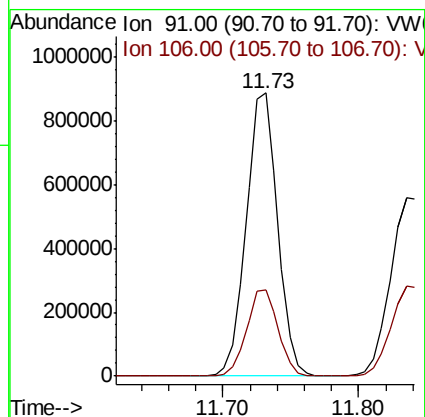
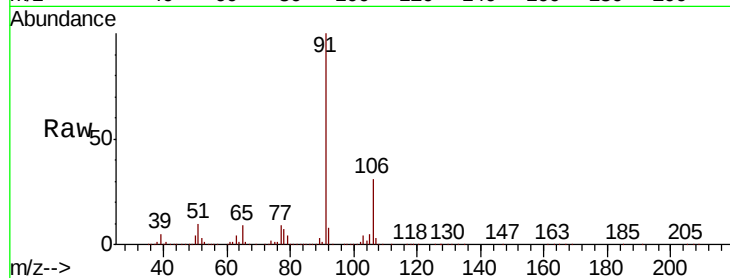
VSTD02501

Tot Ion: 91 Resp: 1432152

Ion Ratio Lower Upper

91 100

106 30.5 22.3 41.5



#54

m,p-Xylene

Concen: 25.738 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014472.D

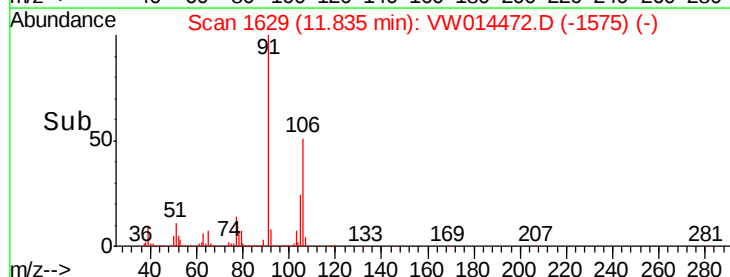
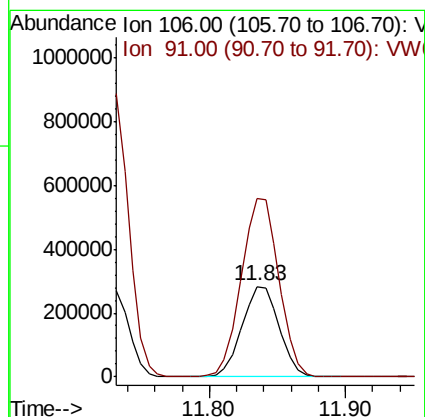
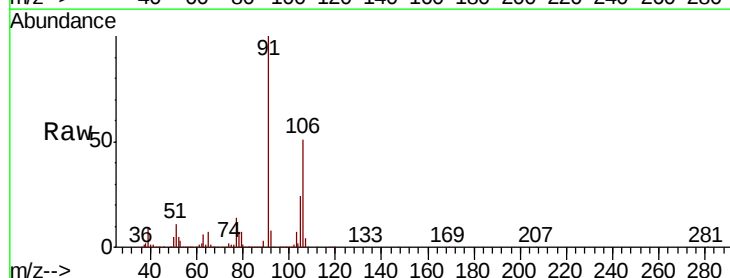
Acq: 20 Dec 2019 15:12

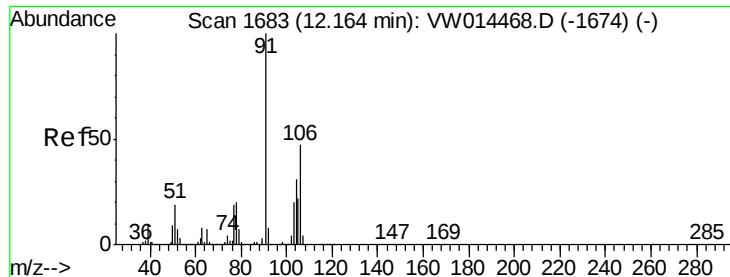
Tgt Ion: 106 Resp: 539421

Ion Ratio Lower Upper

106 100

91 197.5 138.7 257.5

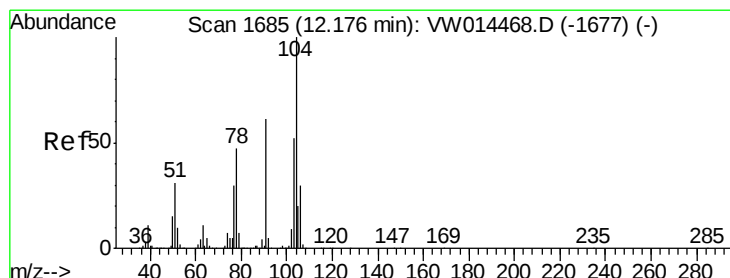
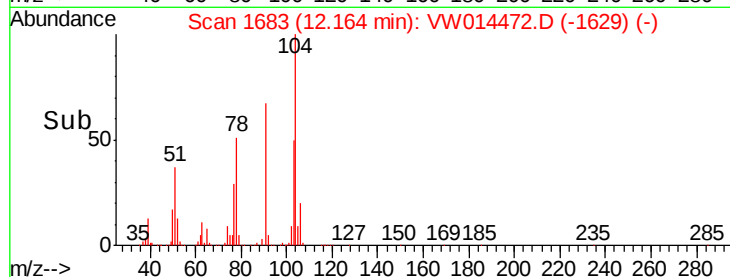
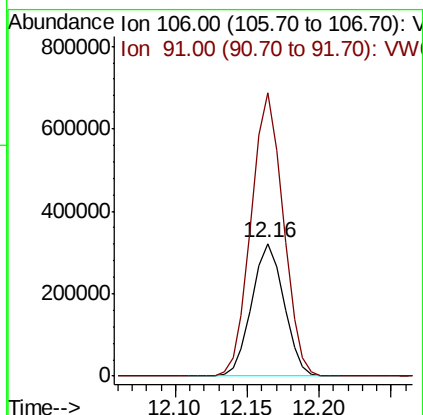
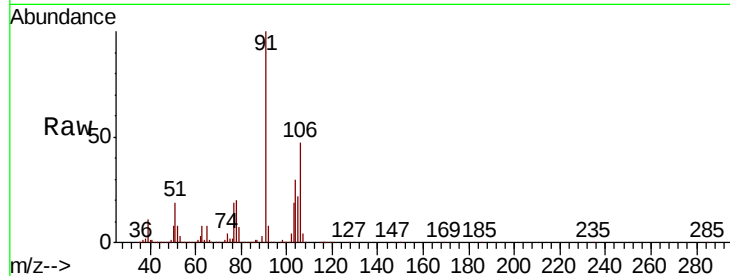




#55
o-xylene
Concen: 25.190 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

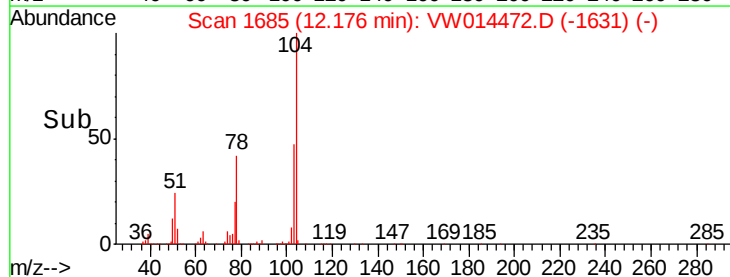
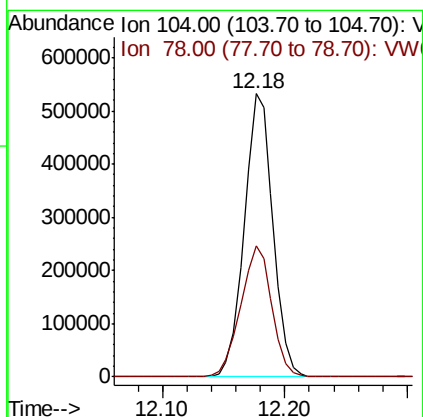
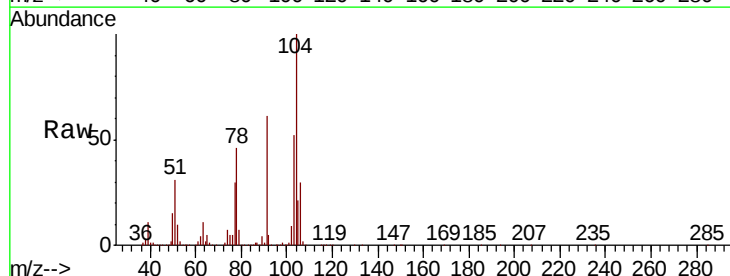
Instrument :
MSVOA_W
ClientSampled :
VSTD02501

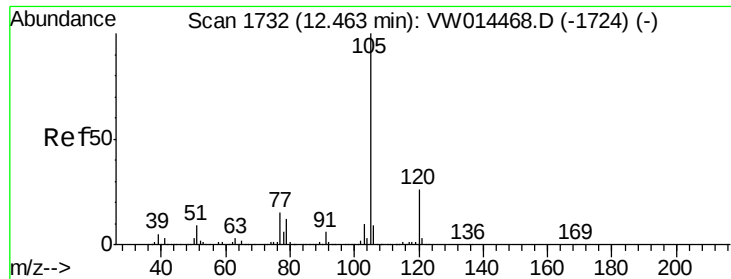
Tot Ion:106 Resp: 500752
Ion Ratio Lower Upper
106 100
91 213.2 148.3 275.5



#56
Styrene
Concen: 25.389 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW014472.D
Acq: 20 Dec 2019 15:12

Tgt Ion:104 Resp: 863417
Ion Ratio Lower Upper
104 100
78 46.3 30.6 56.8





#57

Isopropylbenzene

Concen: 26.885 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02501

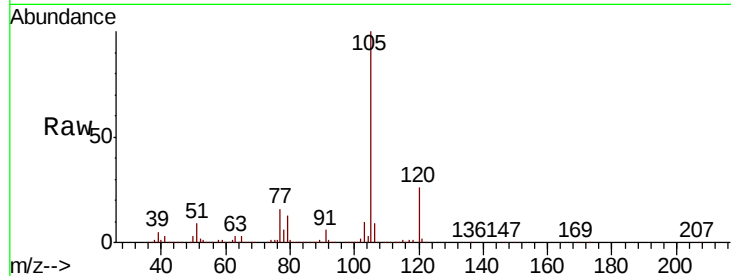
Tot Ion:105 Resp: 1387477

Ion Ratio Lower Upper

105 100

120 26.3 21.6 32.4

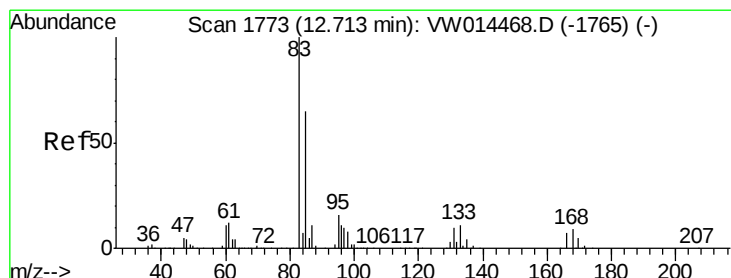
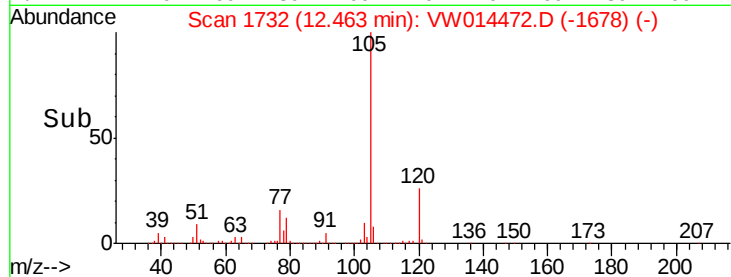
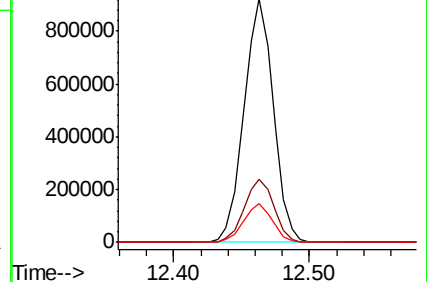
77 15.7 11.6 17.4



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: 25.486 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

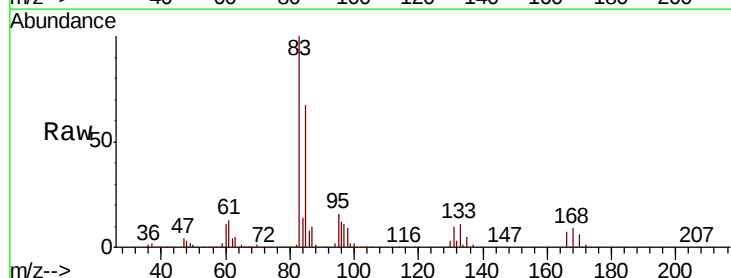
Tgt Ion: 83 Resp: 291649

Ion Ratio Lower Upper

83 100

85 66.5 43.7 81.1

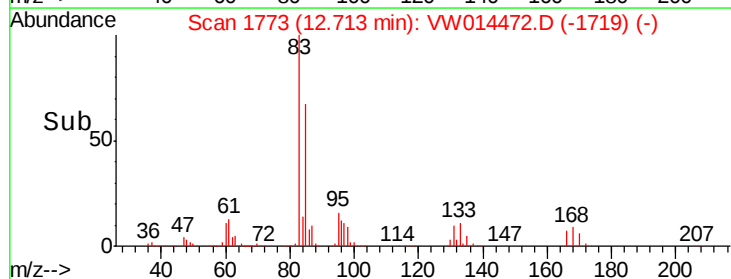
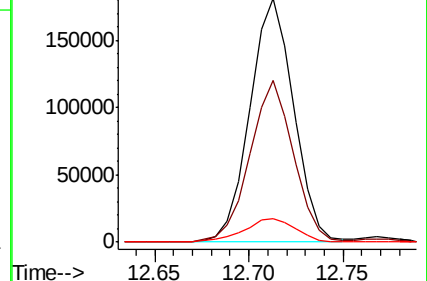
131 9.8 8.2 12.2

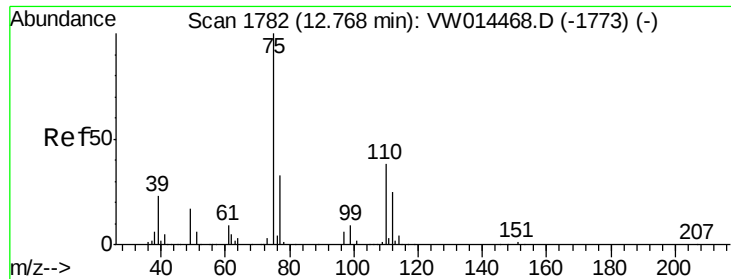


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 26.299 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

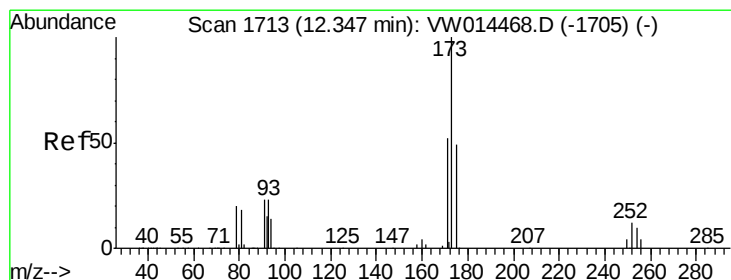
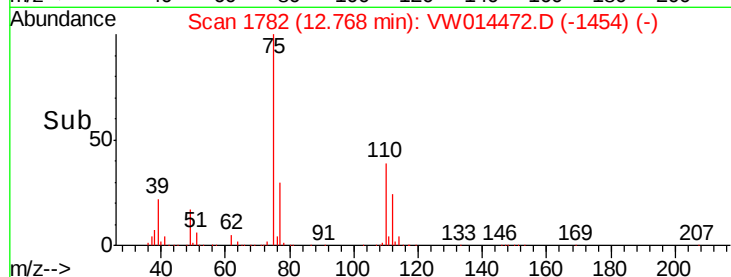
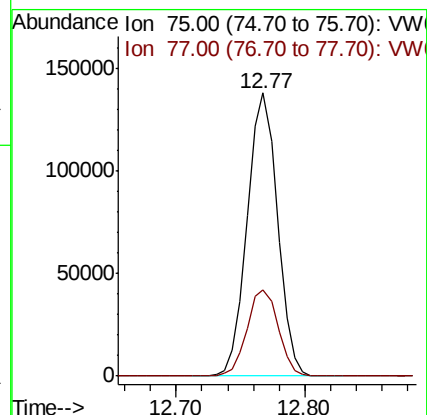
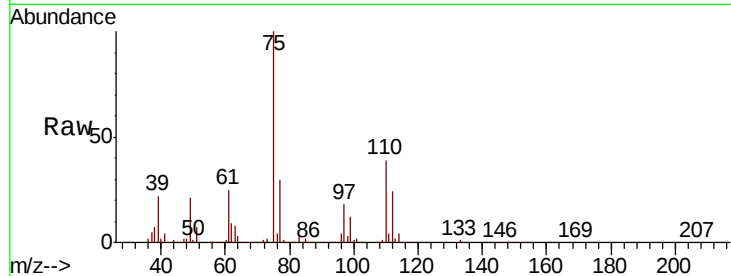
VSTD02501

Tot Ion: 75 Resp: 223628

Ion Ratio Lower Upper

75 100

77 31.7 25.9 38.9



#62

Bromoform

Concen: 24.013 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

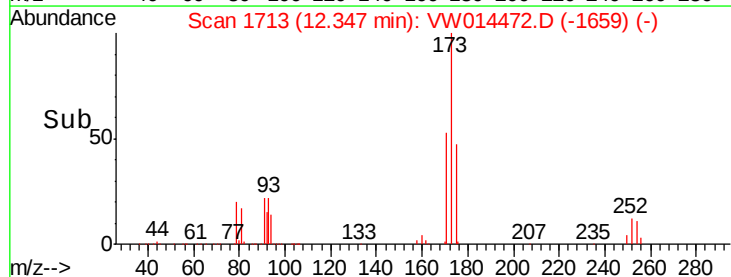
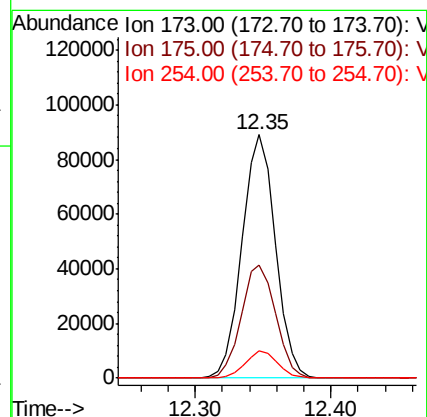
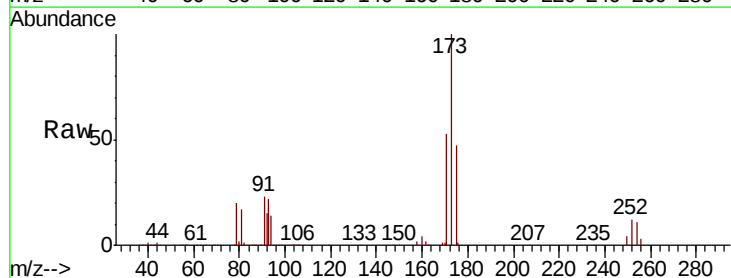
Tgt Ion: 173 Resp: 152600

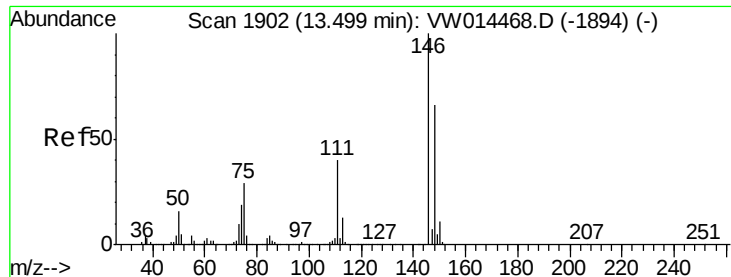
Ion Ratio Lower Upper

173 100

175 48.1 38.8 58.2

254 10.9 9.4 14.0

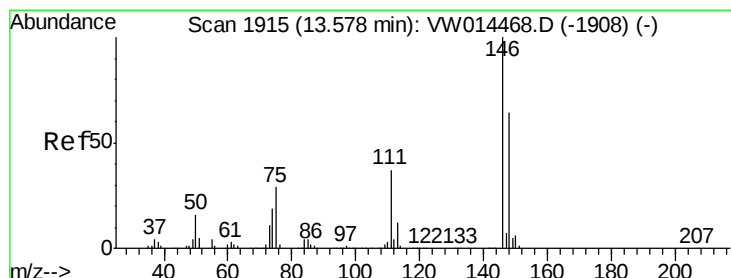
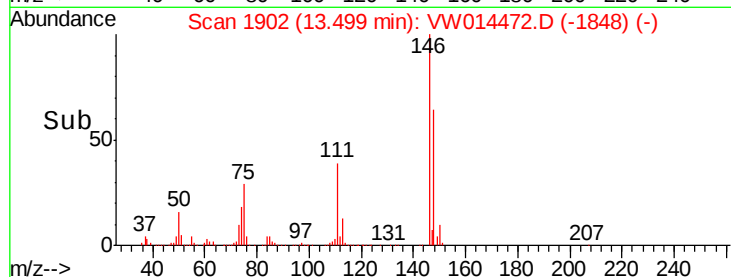
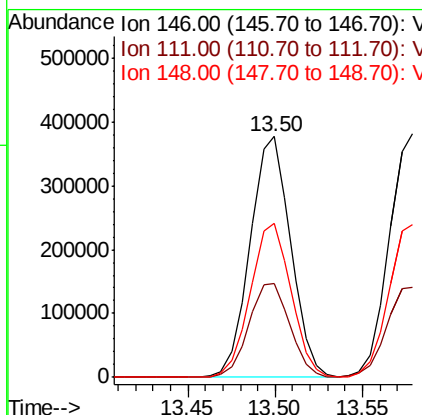
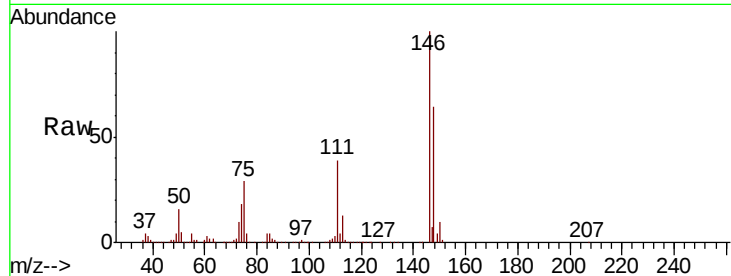




#63
 1,3-Dichlorobenzene
 Concen: 24.093 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

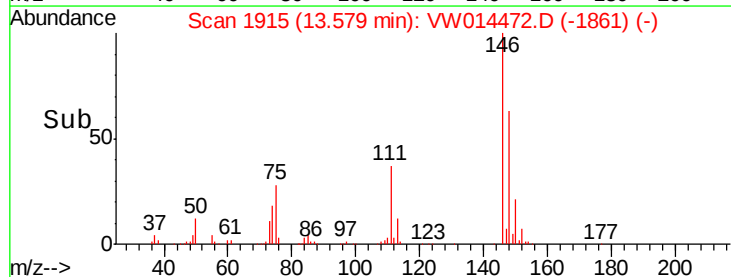
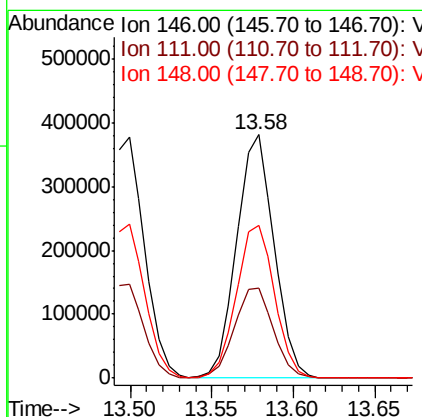
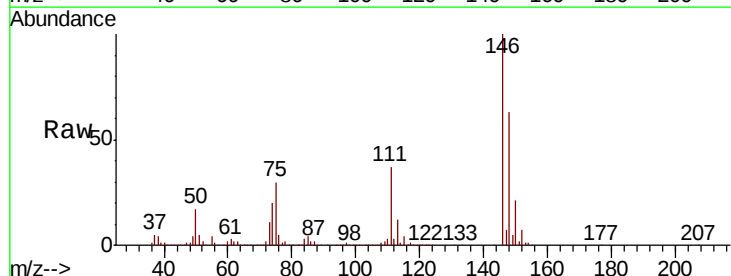
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02501

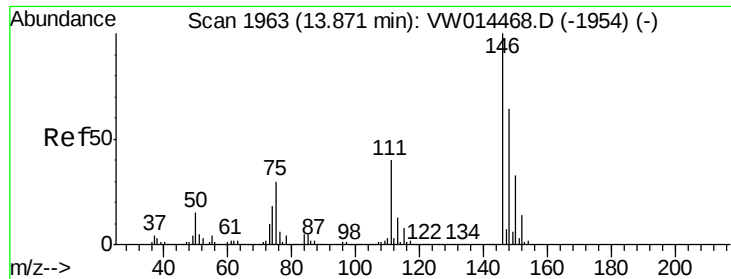
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	26.0	48.2
148	63.9	44.7	82.9



#64
 1,4-Dichlorobenzene
 Concen: 23.799 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	24.9	46.3
148	63.0	43.9	81.5





#65

1,2-Dichlorobenzene

Concen: 23.553 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

VSTD02501

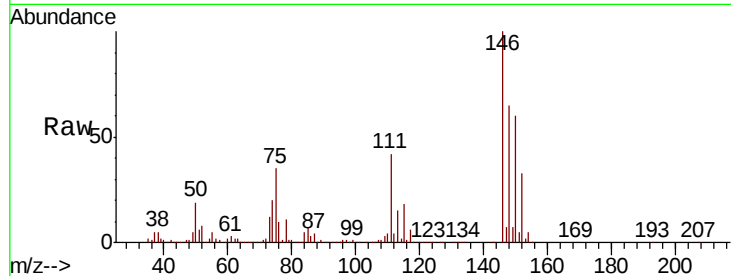
Tot Ion:146 Resp: 551210

Ion Ratio Lower Upper

146 100

111 42.3 30.5 45.7

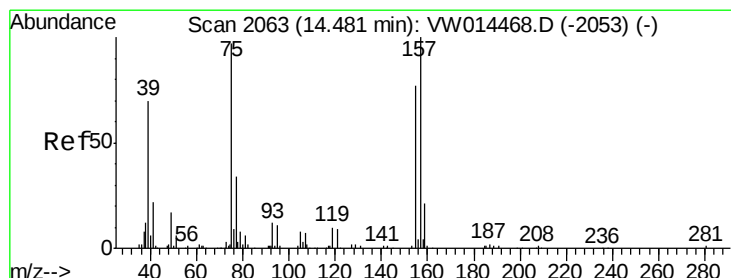
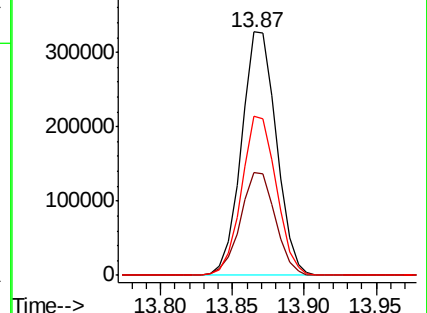
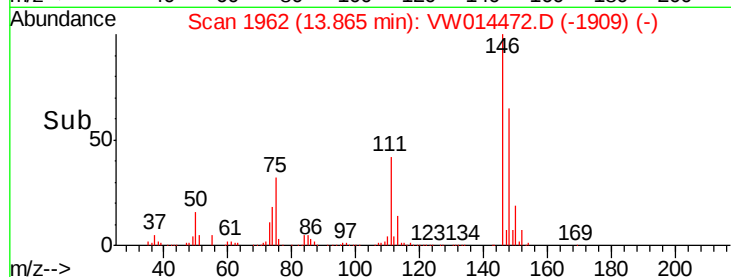
148 65.5 49.4 74.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 26.110 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

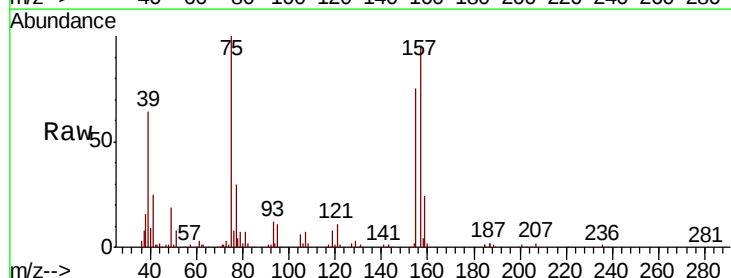
Tgt Ion: 75 Resp: 47138

Ion Ratio Lower Upper

75 100

157 95.3 96.9 145.3#

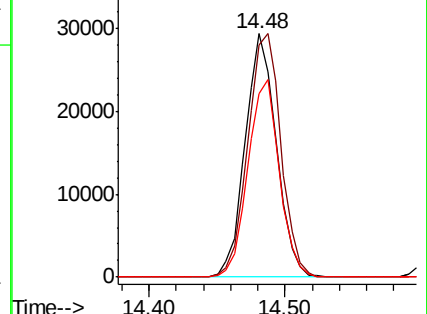
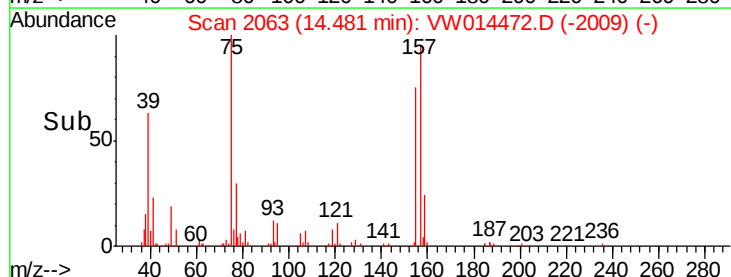
155 75.3 82.9 124.3#

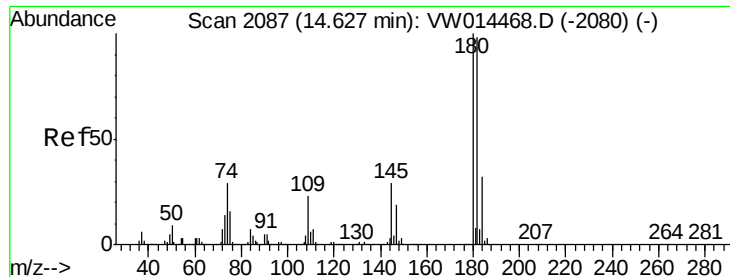


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

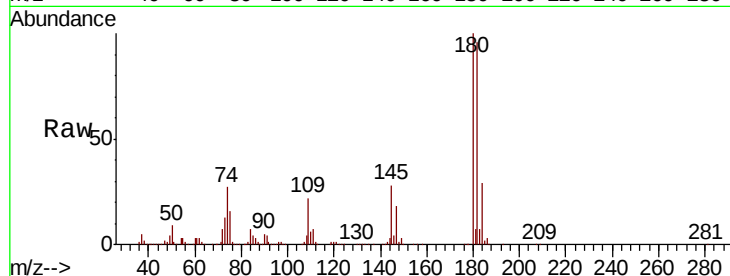




#67
 1,3,5-Trichlorobenzene
 Concen: 24.560 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02501

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.2	114.2
184	29.9	24.3	36.5
145	28.3	21.9	32.9



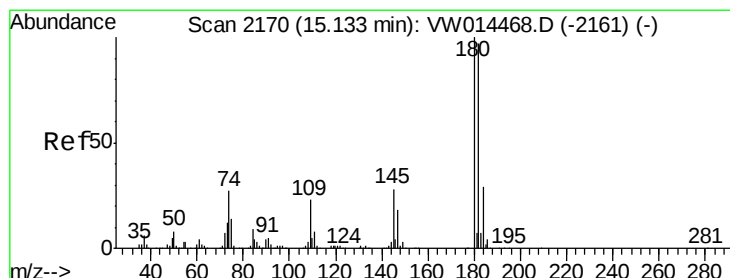
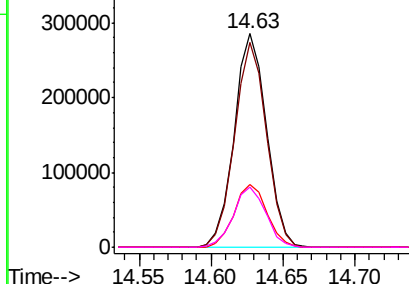
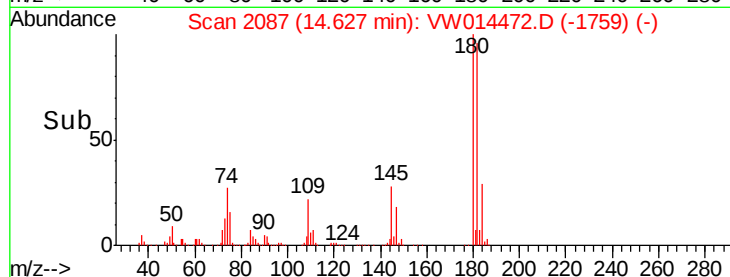
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

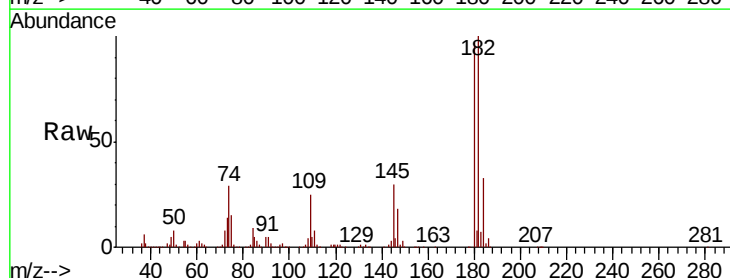
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 23.797 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014472.D
 Acq: 20 Dec 2019 15:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.3	75.8	113.8
145	29.4	22.4	33.6

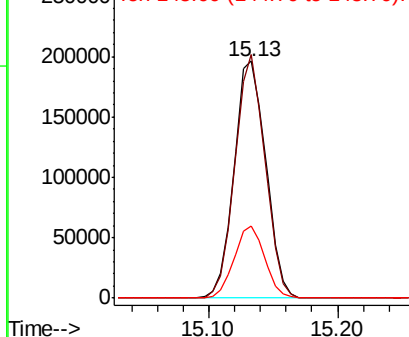
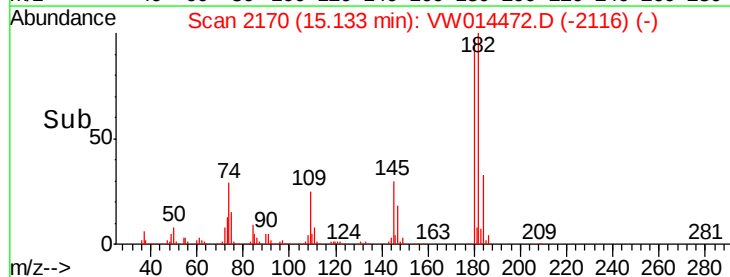


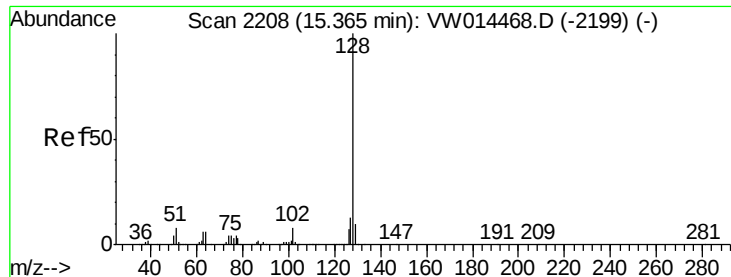
Abundance

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: 25.218 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02501

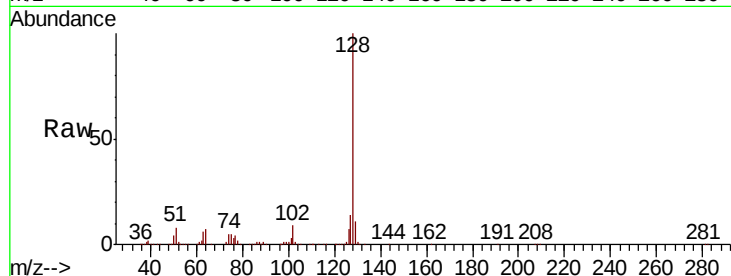
Tot Ion:128 Resp: 669410

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

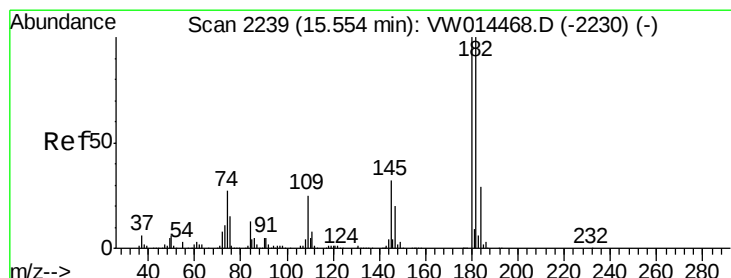
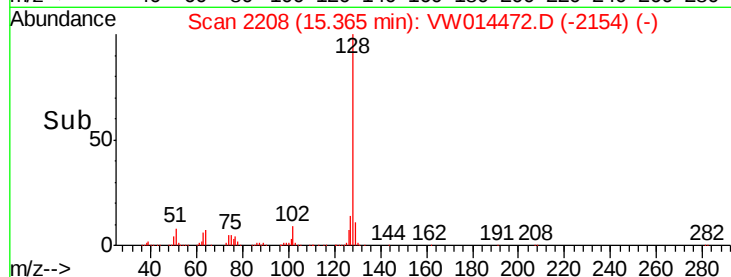
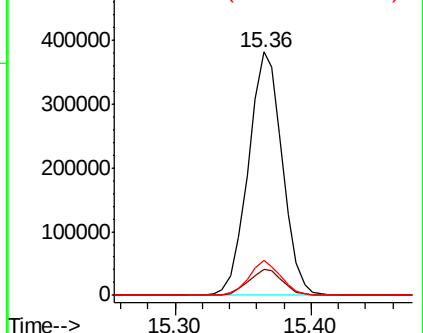
127 13.4 10.4 15.6



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: 24.362 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014472.D

Acq: 20 Dec 2019 15:12

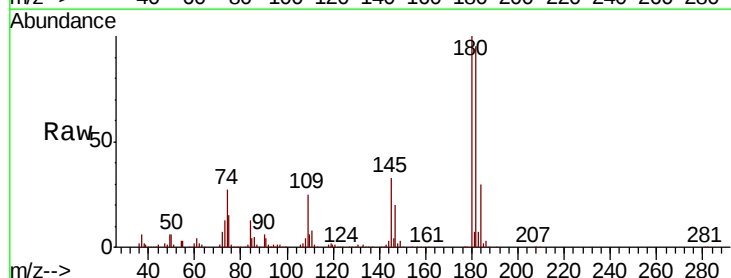
Tgt Ion:180 Resp: 322477

Ion Ratio Lower Upper

180 100

182 97.0 75.8 113.6

145 31.2 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

