

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121219\
 Data File : VW014319.D
 Acq On : 12 Dec 2019 10:48
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

Quant Time: Dec 13 05:58:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 12 15:26:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1019440	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	903189	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	439646	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	352813	22.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.40%
7) Chloroethane-d5	2.89	69	292381	25.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.88%
10) 1,1-Dichloroethene-d2	4.02	63	668046	24.50	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.00%
20) 2-Butanone-d5	7.07	46	225612	56.08	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.16%
24) Chloroform-d	7.64	84	649976	25.04	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.16%
26) 1,2-Dichloroethane-d4	8.30	65	347426	25.53	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.12%
29) Benzene-d6	8.27	84	1330788	25.14	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.56%
33) 1,2-Dichloropropane-d6	9.27	67	409563	25.15	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.60%
37) Toluene-d8	10.32	98	1209333	25.27	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.08%
38) trans-1,3-Dichloropropene-	10.57	79	170639	24.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.88%
39) 2-Hexanone-d5	10.92	63	178810	55.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	110.44%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	347308	26.17	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.68%
61) 1,2-Dichlorobenzene-d4	13.85	152	396533	23.60	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	236137	24.354	ug/L 98
3) Chloromethane	2.21	50	234649	24.073	ug/L 98
5) Vinyl chloride	2.36	62	374805	25.970	ug/L 94
6) Bromomethane	2.78	94	219643	24.673	ug/L 100
8) Chloroethane	2.92	64	216285	26.232	ug/L 94
9) Trichlorofluoromethane	3.26	101	223511	31.283	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	336355	25.014	ug/L 93
12) 1,1-Dichloroethene	4.04	96	329552	24.208	ug/L 85
13) Acetone	4.12	43	244338	62.997	ug/L 99
14) Carbon disulfide	4.38	76	996712	23.872	ug/L 100
15) Methyl Acetate	4.67	43	181808	24.782	ug/L 96
16) Methylene chloride	4.91	84	369795	23.663	ug/L 96
17) Methyl tert-butyl Ether	5.42	73	419305	23.356	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	339986	23.321	ug/L 91
19) 1,1-Dichloroethane	6.21	63	622684	23.773	ug/L 99
21) 2-Butanone	7.17	43	276219	53.046	ug/L 97
22) cis-1,2-Dichloroethene	7.17	96	358384	23.103	ug/L 96

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

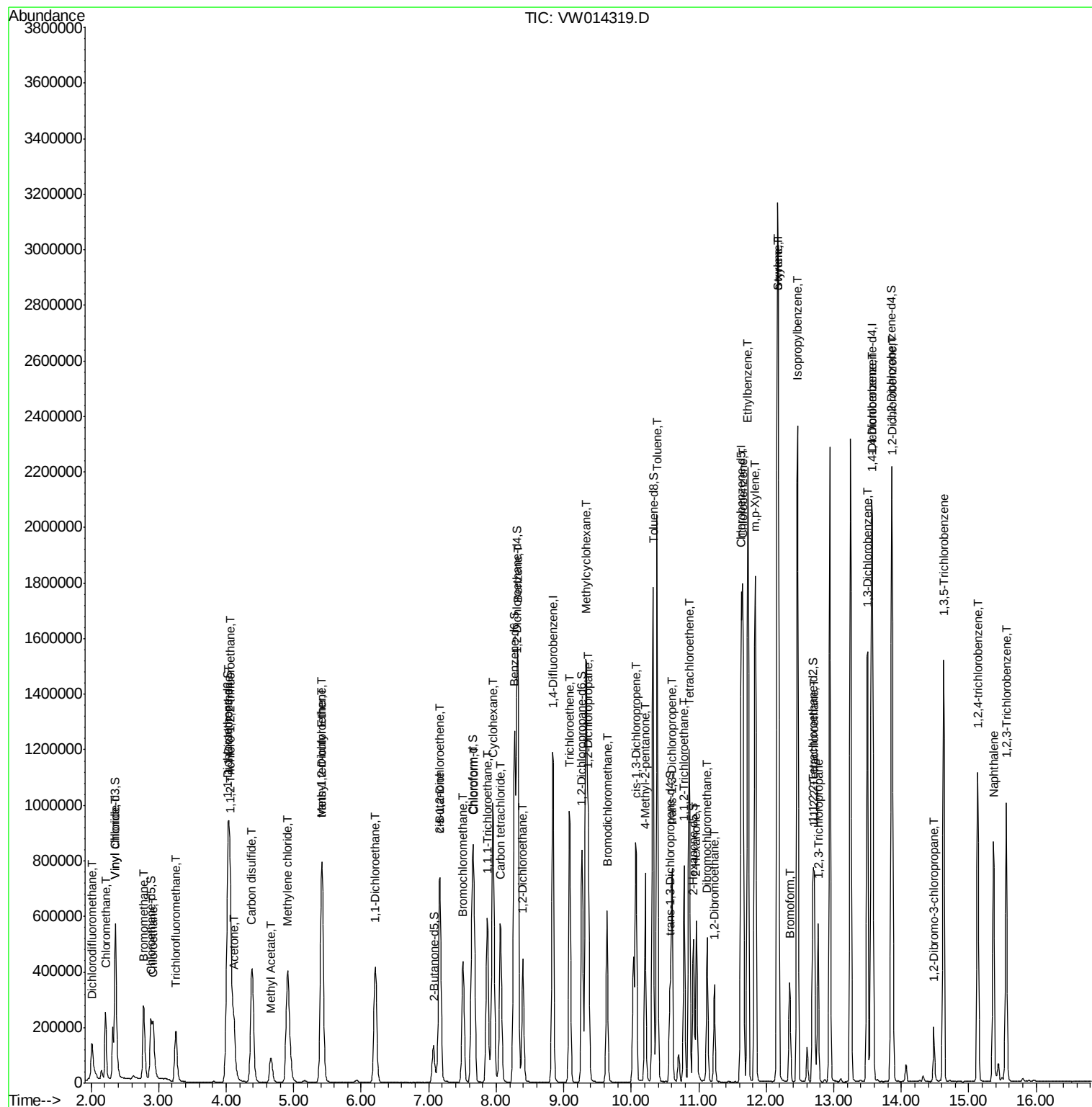
23) Bromochloromethane	7.51	128	157836	22.119	ug/L #	80
25) Chloroform	7.67	83	601117	23.617	ug/L	100
27) 1,2-Dichloroethane	8.40	62	393289	23.597	ug/L	97
30) Cyclohexane	7.95	56	598184	26.534	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	473137	26.084	ug/L	97
32) Carbon tetrachloride	8.06	117	447018	25.973	ug/L	99
34) Benzene	8.32	78	1399251	24.468	ug/L	100
35) Trichloroethene	9.09	95	349828	23.908	ug/L	95
36) Methylcyclohexane	9.33	83	621463	25.275	ug/L	96
40) 1,2-Dichloropropane	9.37	63	351699	23.938	ug/L	99
41) Bromodichloromethane	9.64	83	421259	23.594	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	528985	24.042	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	490420	50.621	ug/L	97
44) Toluene	10.38	91	1475744	24.614	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	425269	23.878	ug/L	99
46) 1,1,2-Trichloroethane	10.78	97	251122	22.810	ug/L	97
47) Tetrachloroethene	10.86	164	286796	23.516	ug/L	98
49) 2-Hexanone	10.96	43	377236	54.693	ug/L	98
50) Dibromochloromethane	11.12	129	282735	22.882	ug/L	98
51) 1,2-Dibromoethane	11.23	107	241508	23.159	ug/L #	99
52) Chlorobenzene	11.65	112	895848	23.119	ug/L	94
53) Ethylbenzene	11.73	91	1575457	24.217	ug/L	98
54) m,p-Xylene	11.84	106	602930	24.093	ug/L	98
55) o-xylene	12.16	106	568982	23.971	ug/L	99
56) Styrene	12.18	104	996402	24.537	ug/L	97
57) Isopropylbenzene	12.46	105	1519090	24.651	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	317536	23.238	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	240670	23.703	ug/L	99
62) Bromoform	12.35	173	170315	22.825	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	671819	22.735	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	678214	22.590	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	624637	22.731	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.48	75	50122	23.644	ug/L	83
67) 1,3,5-Trichlorobenzene	14.63	180	498921	23.467	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	386216	23.303	ug/L	99
69) Naphthalene	15.36	128	746131	23.939	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	356427	22.932	ug/L	98

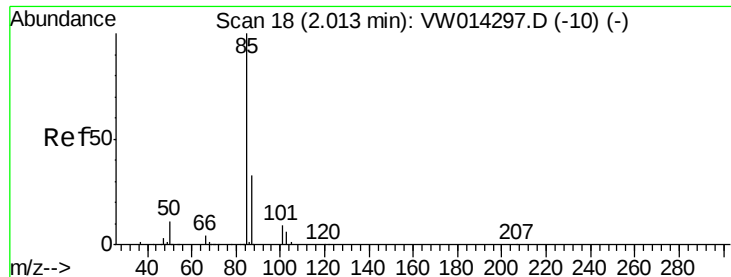
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.354 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

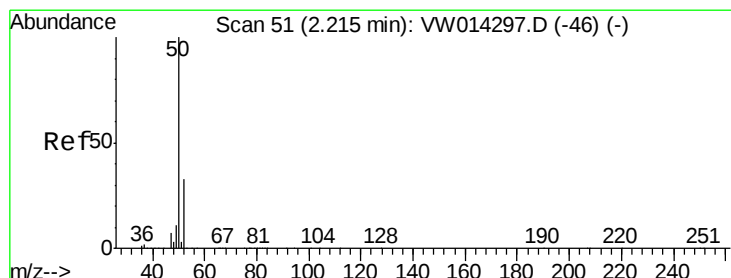
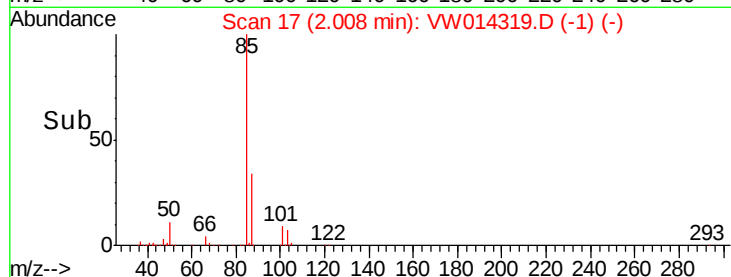
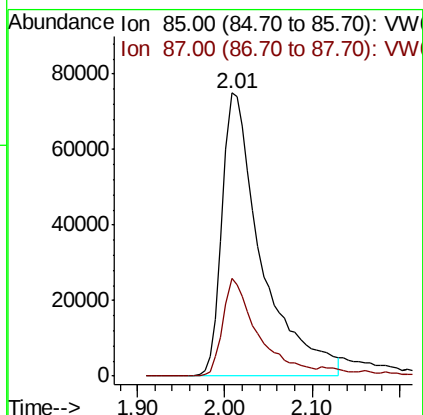
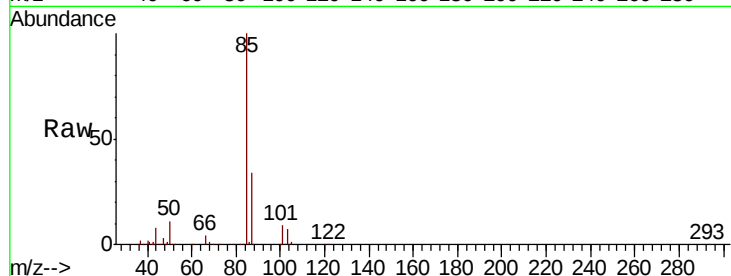
VSTD02516

Tot Ion: 85 Resp: 236137

Ion Ratio Lower Upper

85 100

87 30.7 22.1 41.1



#3

Chloromethane

Concen: 24.073 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014319.D

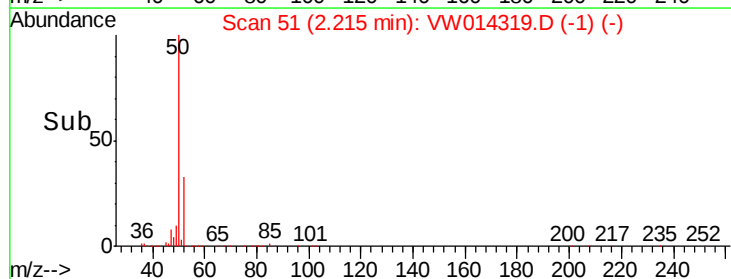
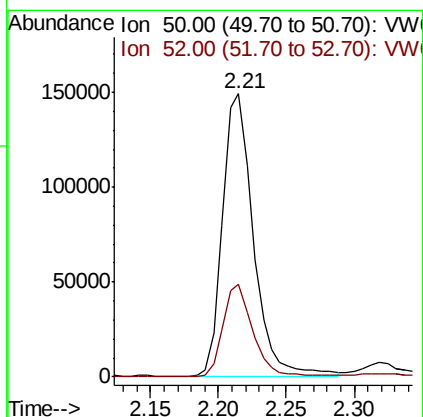
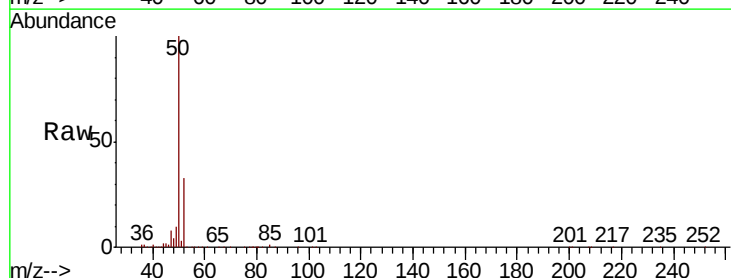
Acq: 12 Dec 2019 10:48

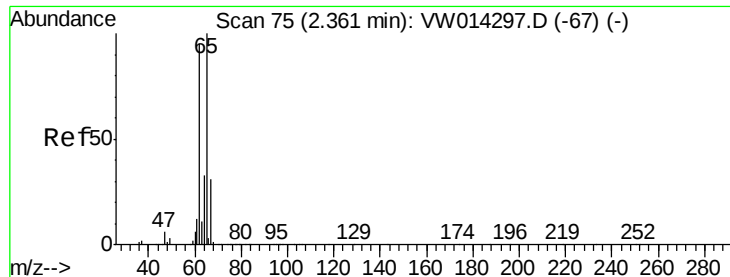
Tgt Ion: 50 Resp: 234649

Ion Ratio Lower Upper

50 100

52 32.8 23.8 44.2





#5

Vinyl chloride

Concen: 25.970 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

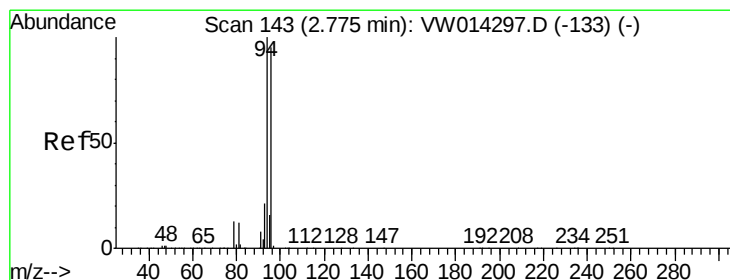
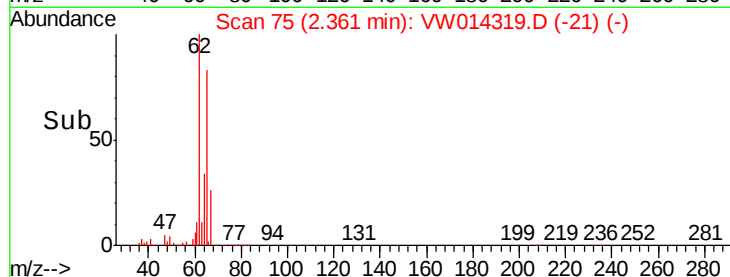
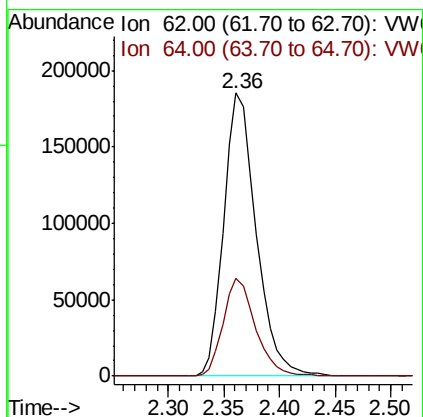
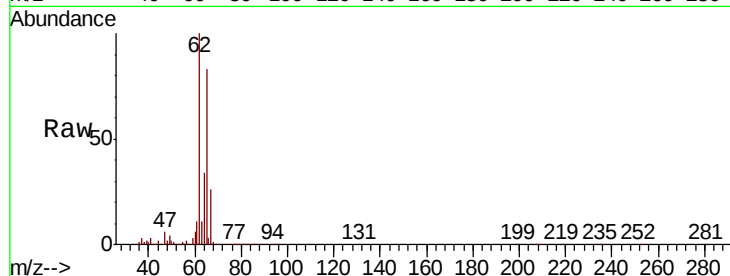
VSTD02516

Tot Ion: 62 Resp: 374805

Ion Ratio Lower Upper

62 100

64 34.5 21.8 40.4



#6

Bromomethane

Concen: 24.673 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014319.D

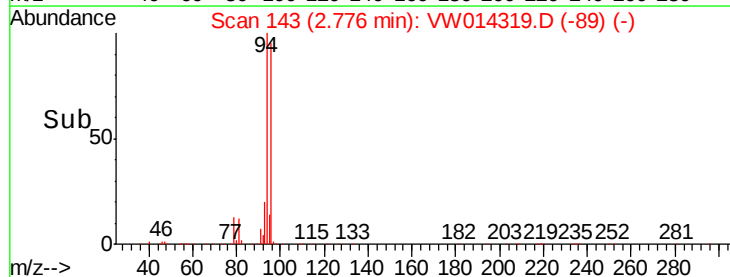
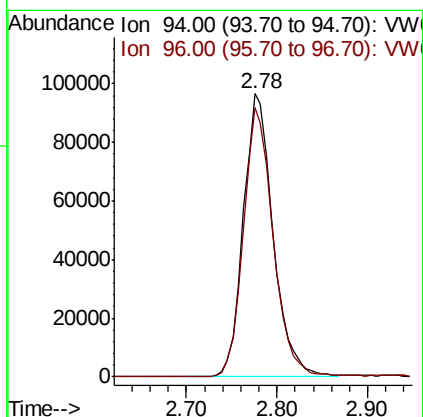
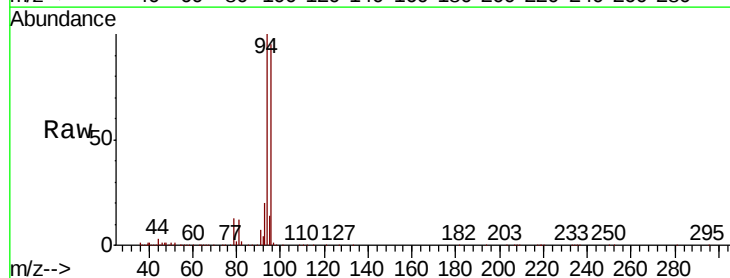
Acq: 12 Dec 2019 10:48

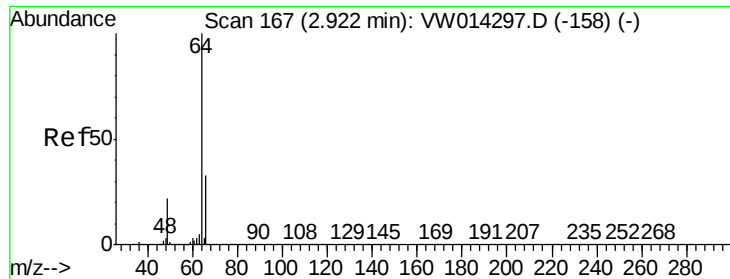
Tgt Ion: 94 Resp: 219643

Ion Ratio Lower Upper

94 100

96 94.6 9.4 178.8





#8

Chloroethane

Concen: 26.232 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

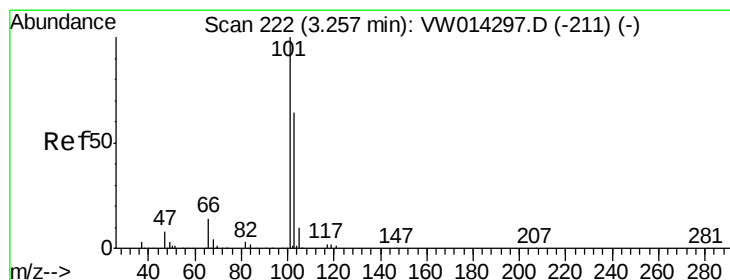
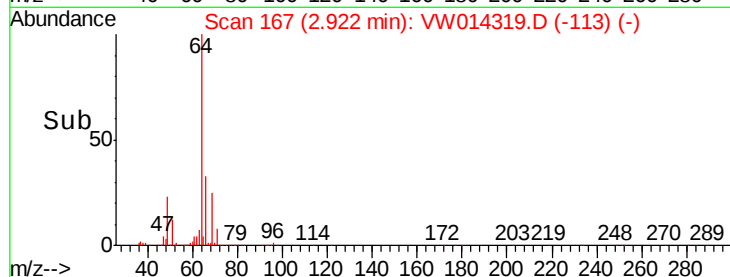
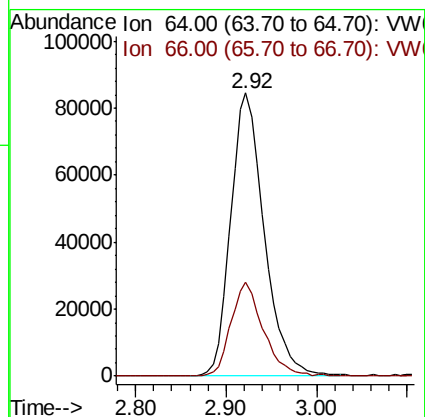
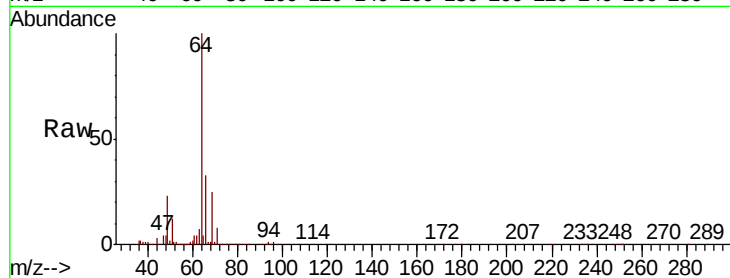
VSTD02516

Tot Ion: 64 Resp: 216285

Ion Ratio Lower Upper

64 100

66 33.3 21.2 39.4



#9

Trichlorofluoromethane

Concen: 31.283 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014319.D

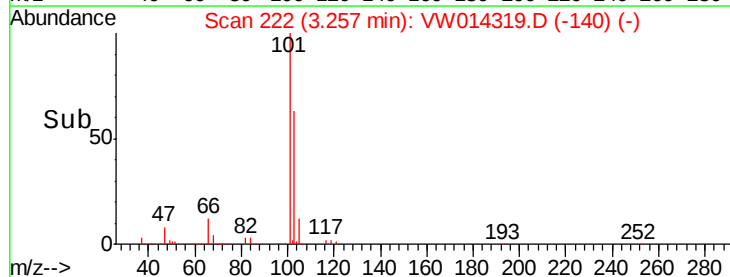
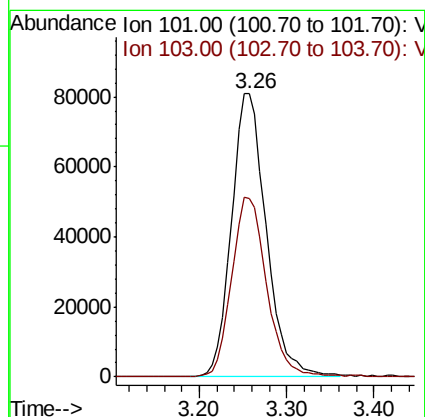
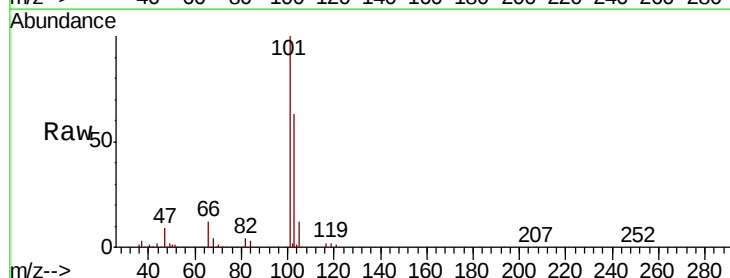
Acq: 12 Dec 2019 10:48

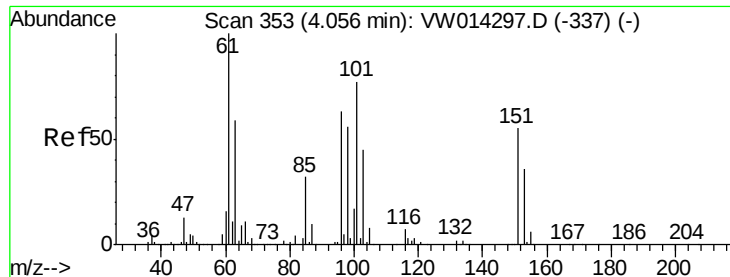
Tgt Ion: 101 Resp: 223511

Ion Ratio Lower Upper

101 100

103 63.8 45.4 84.2





#11

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

Concen: 25.014 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

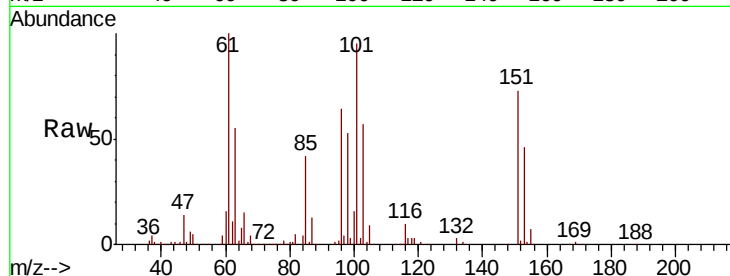
Tot Ion:101 Resp: 336355

Ion Ratio Lower Upper

101 100

85 42.7 31.4 47.2

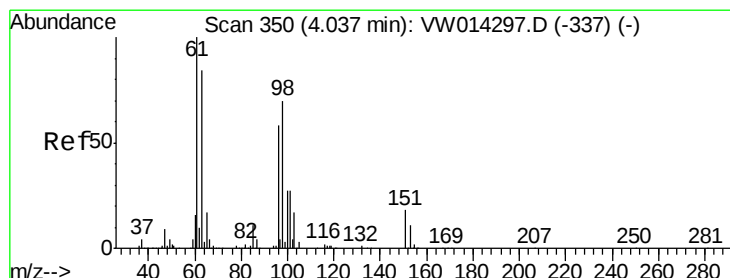
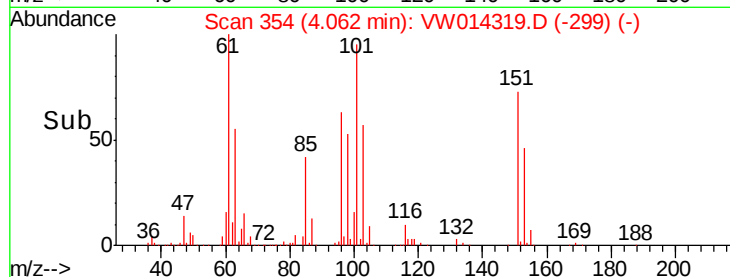
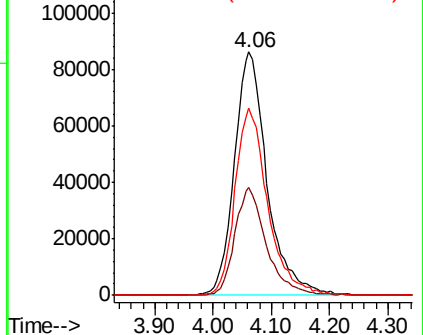
151 76.3 66.9 100.3



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: 24.208 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

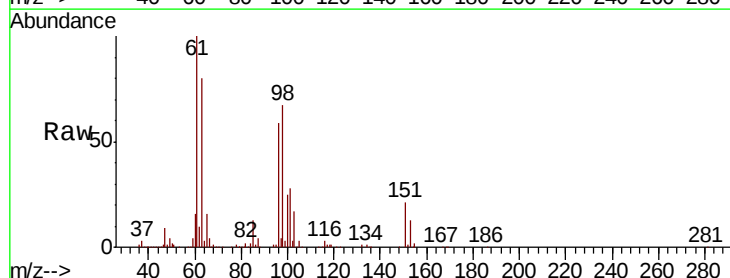
Tgt Ion: 96 Resp: 329552

Ion Ratio Lower Upper

96 100

61 170.9 109.8 204.0

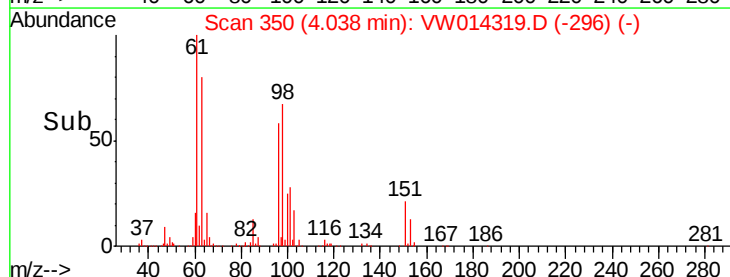
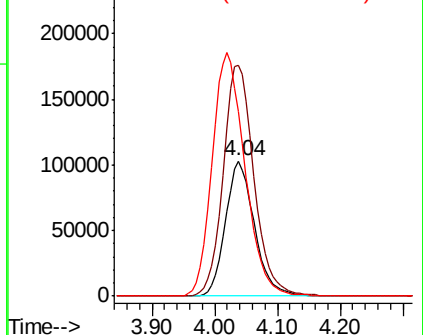
63 136.9 80.7 149.9

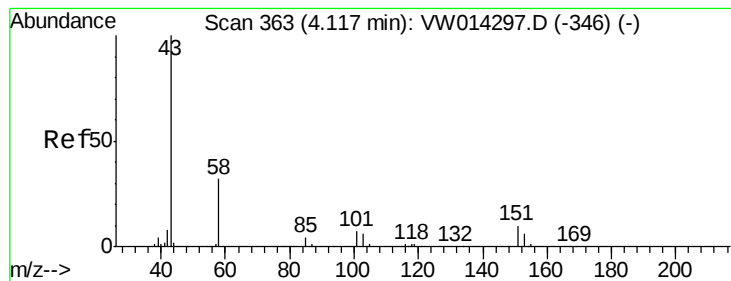


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 62.997 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

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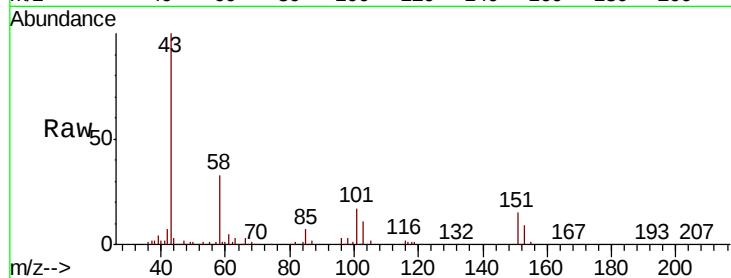
VSTD02516

Tot Ion: 43 Resp: 244338

Ion Ratio Lower Upper

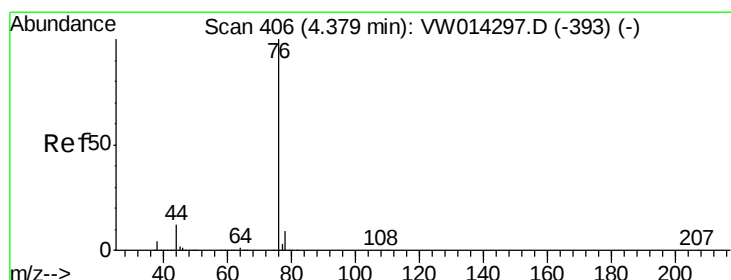
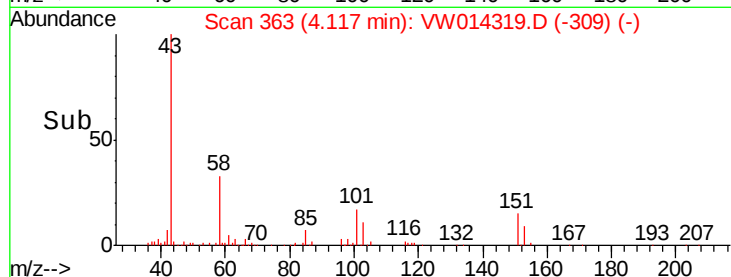
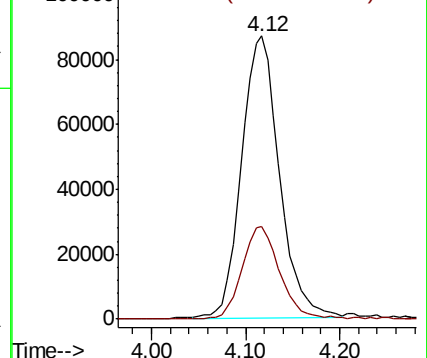
43 100

58 32.3 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.872 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW014319.D

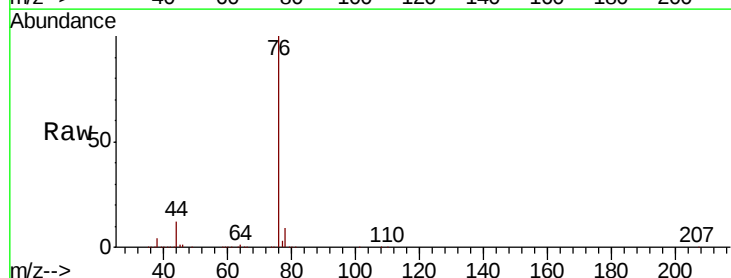
Acq: 12 Dec 2019 10:48

Tgt Ion: 76 Resp: 996712

Ion Ratio Lower Upper

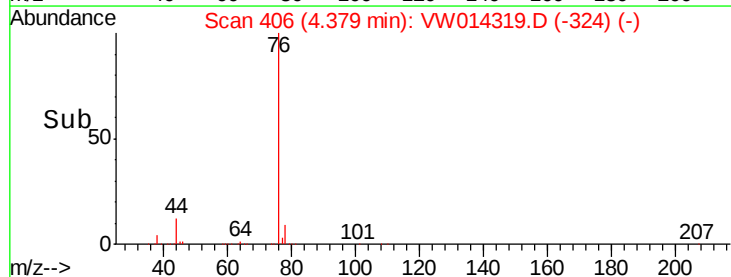
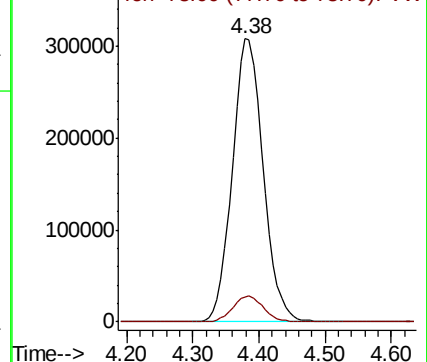
76 100

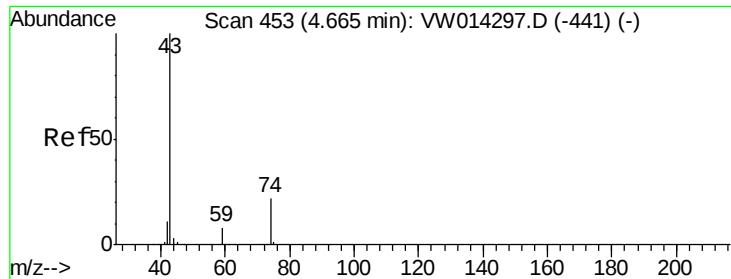
78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

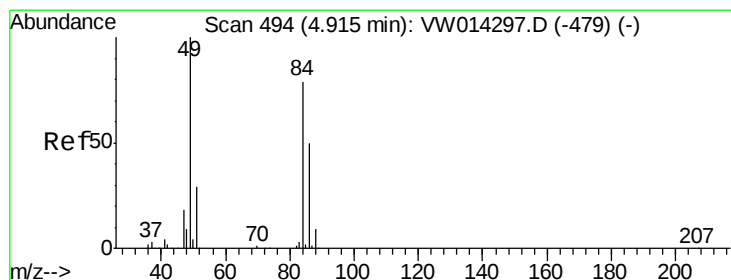
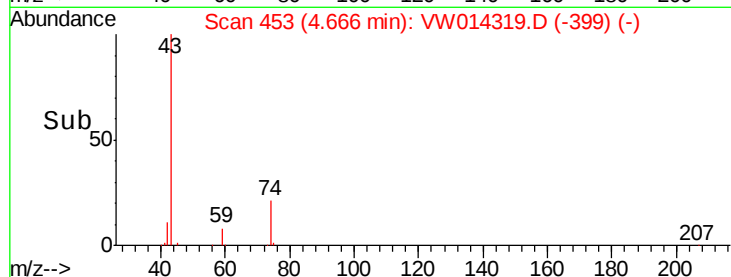
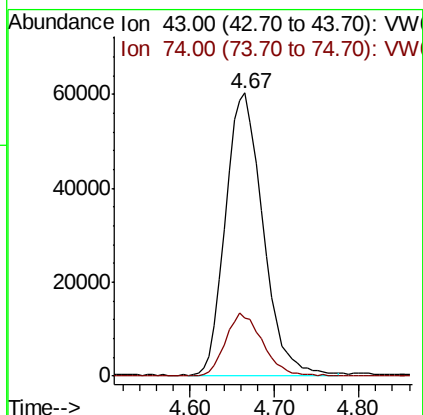
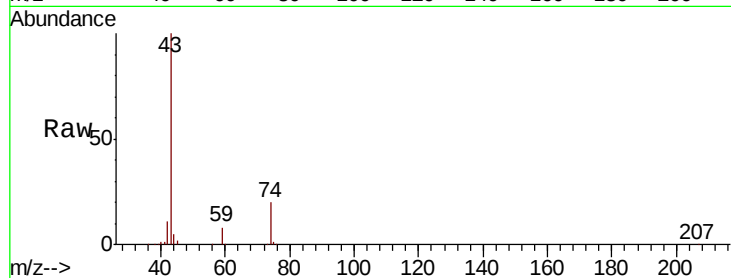




#15
Methvl Acetate
Concen: 24.782 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

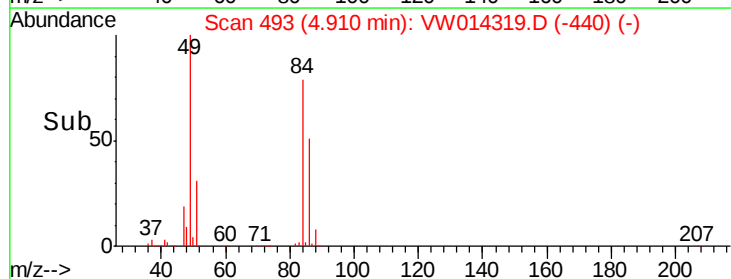
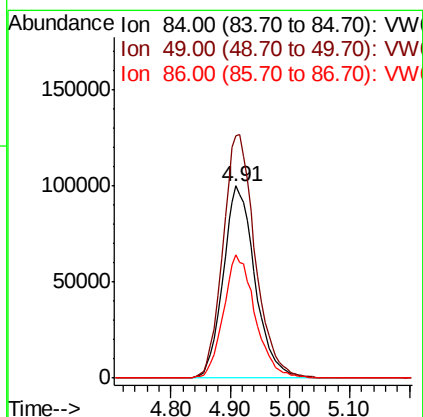
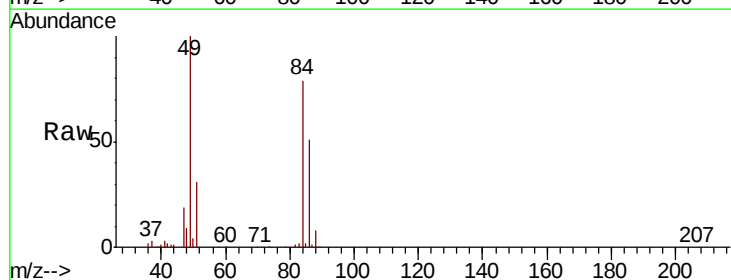
Instrument :
MSVOA_W
ClientSampleId :
VSTD02516

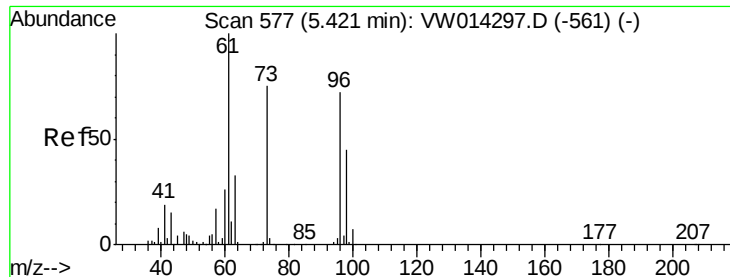
Tot Ion: 43 Resp: 181808
Ion Ratio Lower Upper
43 100
74 22.1 19.3 28.9



#16
Methylene chloride
Concen: 23.663 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

Tgt Ion: 84 Resp: 369795
Ion Ratio Lower Upper
84 100
49 126.0 84.2 156.4
86 64.3 43.7 81.1

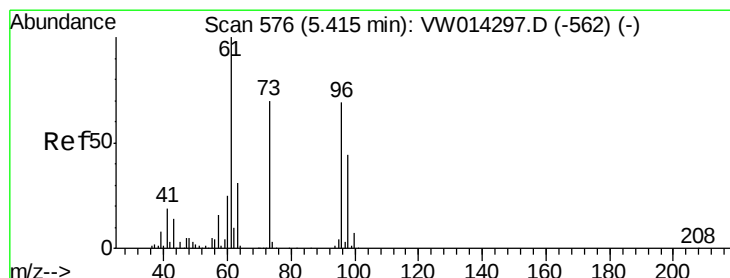
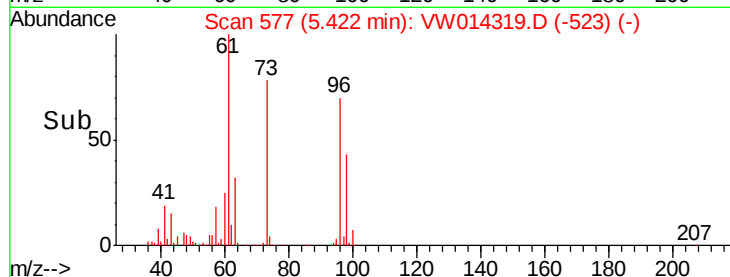
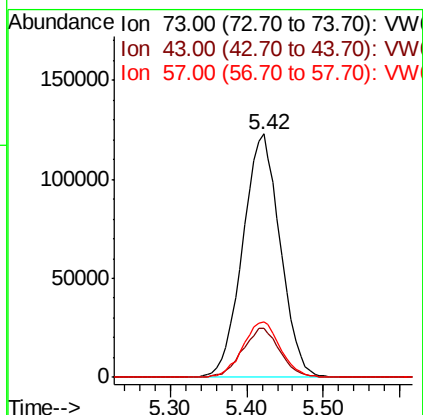
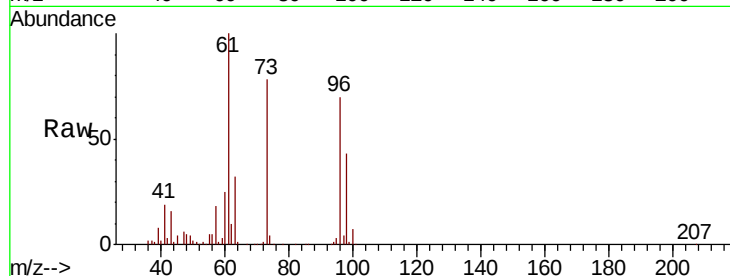




#17
Methvl tert-butvl Ether
Concen: 23.356 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

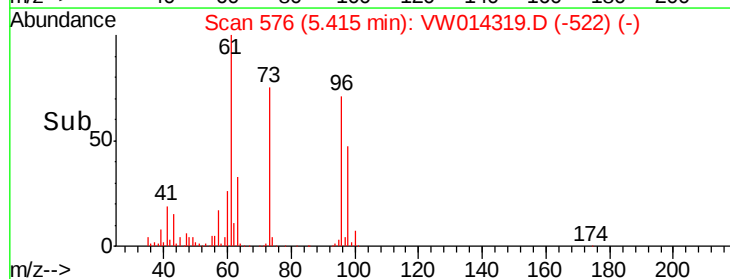
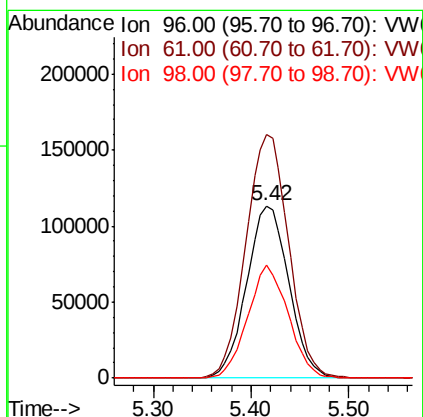
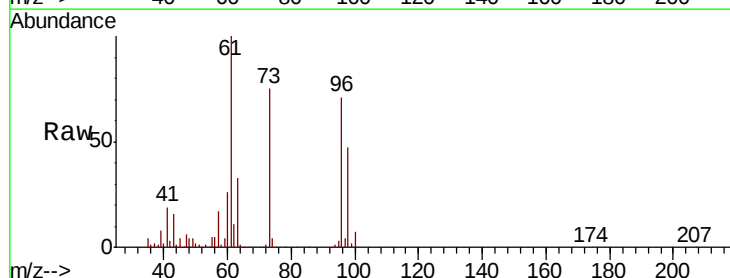
Instrument :
MSVOA_W
ClientSampleId :
VSTD02516

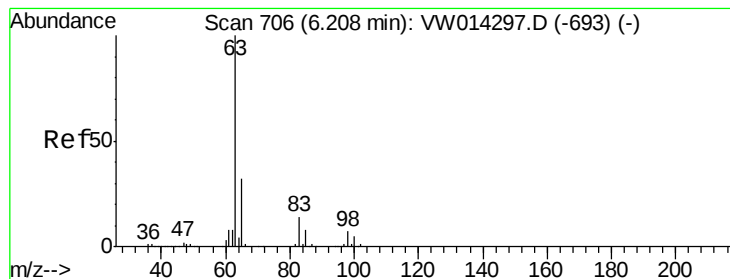
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.9	15.5	23.3
57	22.8	18.2	27.4



#18
trans-1,2-Dichloroethene
Concen: 23.321 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.4	90.6	168.2
98	65.8	42.9	79.7





#19

1,1-Dichloroethane

Concen: 23.773 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

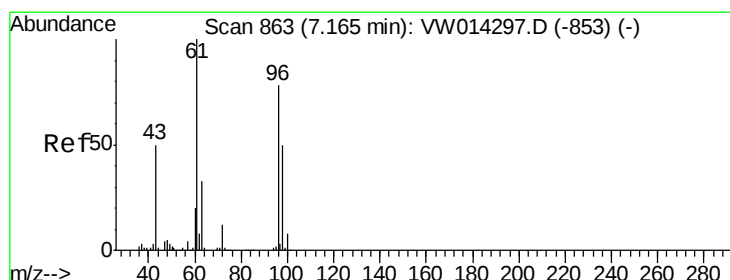
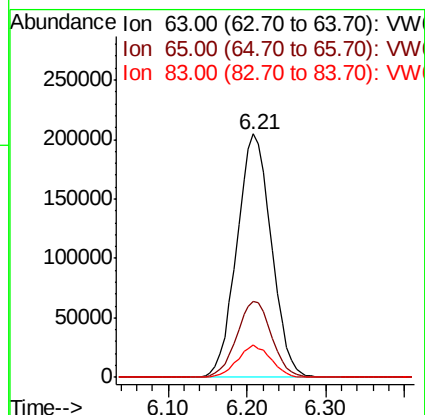
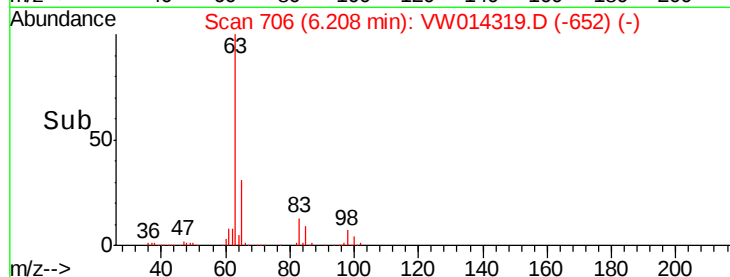
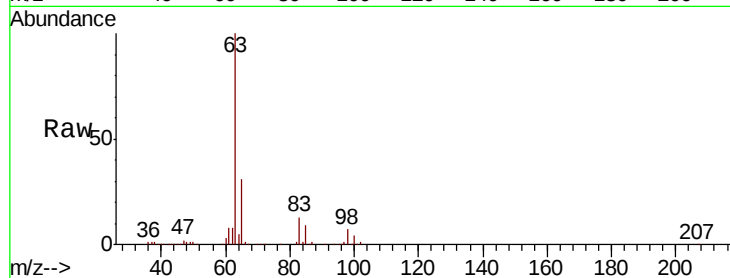
Tot Ion: 63 Resp: 622684

Ion Ratio Lower Upper

63 100

65 31.4 22.1 41.1

83 13.2 9.0 16.6



#21

2-Butanone

Concen: 53.046 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014319.D

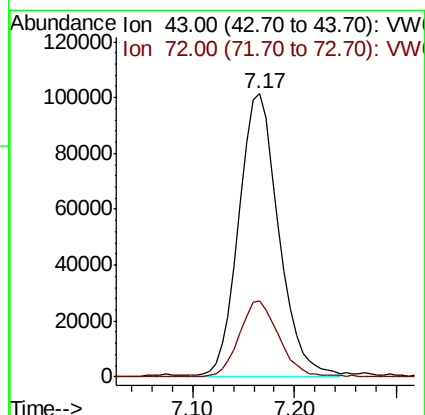
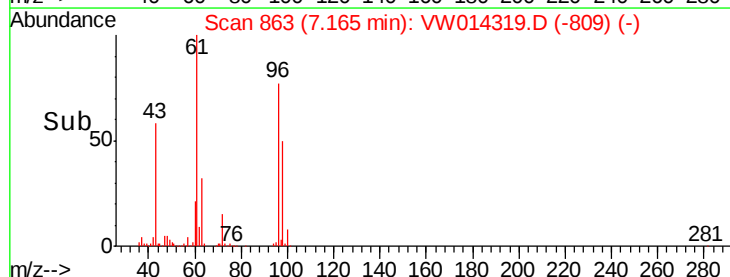
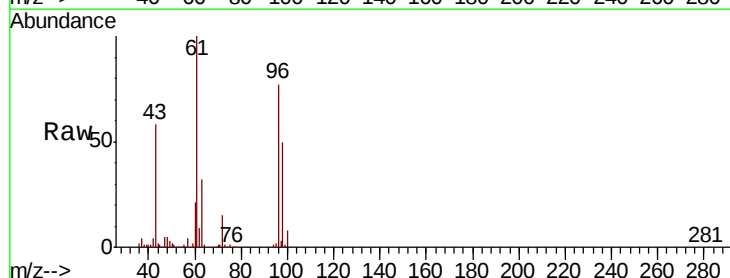
Acq: 12 Dec 2019 10:48

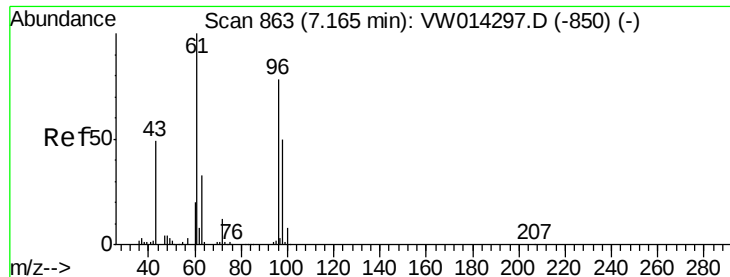
Tgt Ion: 43 Resp: 276219

Ion Ratio Lower Upper

43 100

72 26.5 14.1 42.2



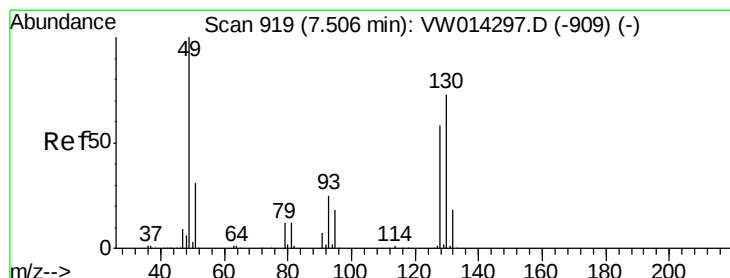
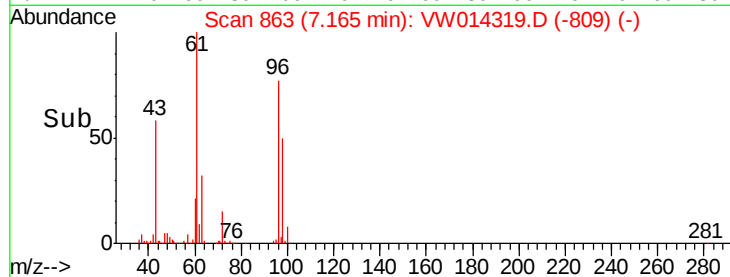
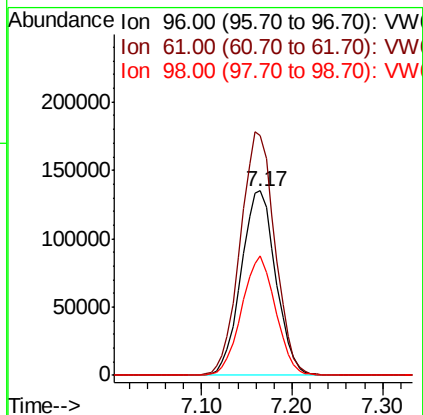
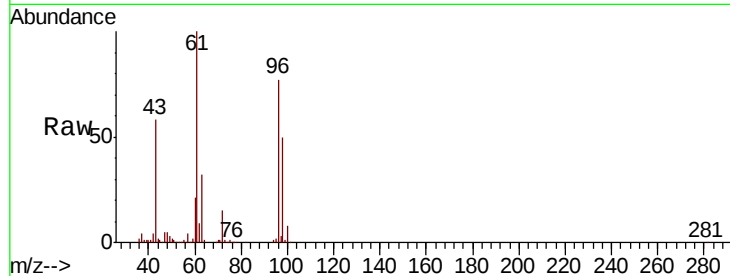


#22

cis-1,2-Dichloroethene
 Concen: 23.103 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

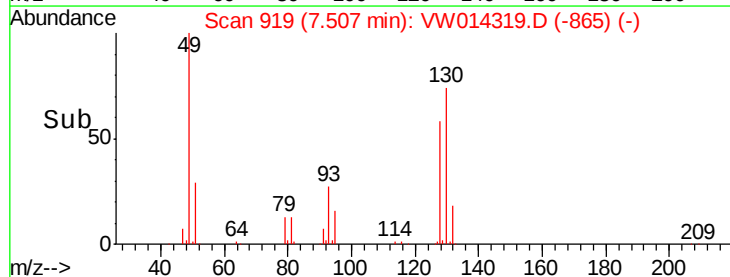
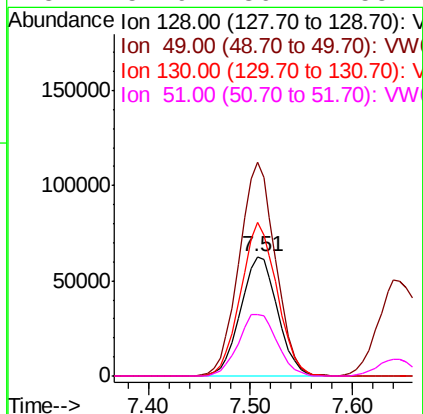
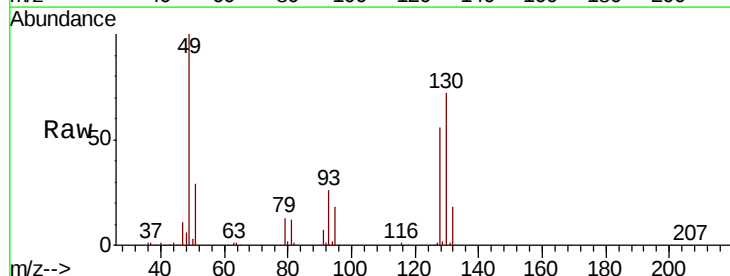
Tot Ion	Ratio	Lower	Upper
96	100		
61	130.3	86.9	161.5
98	64.5	45.5	84.5

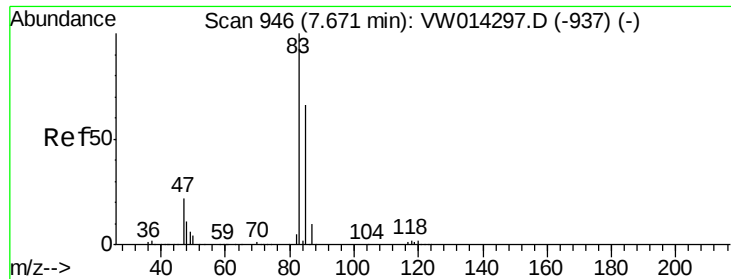


#23

Bromochloromethane
 Concen: 22.119 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

Tgt Ion	Ratio	Lower	Upper
128	100		
49	179.4	95.1	176.5#
130	128.6	85.0	158.0
51	51.9	36.7	55.1

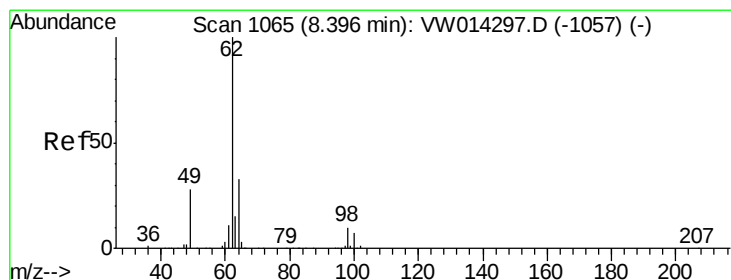
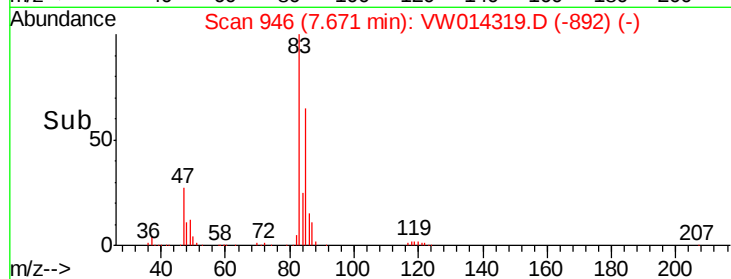
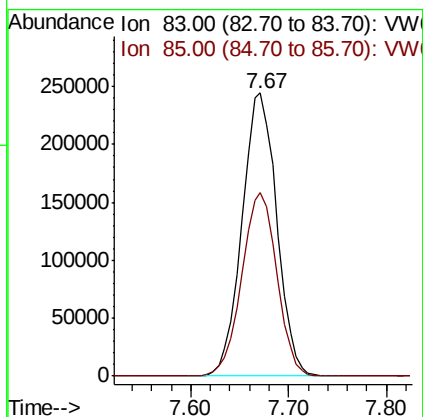
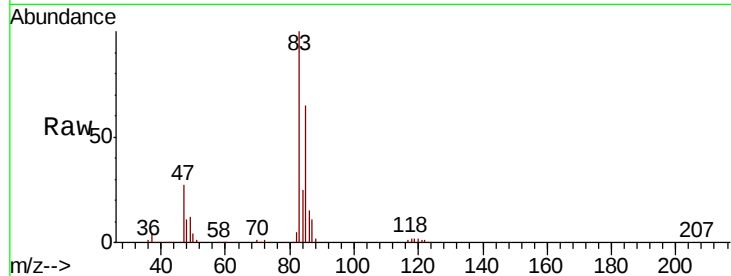




#25
Chloroform
Concen: 23.617 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

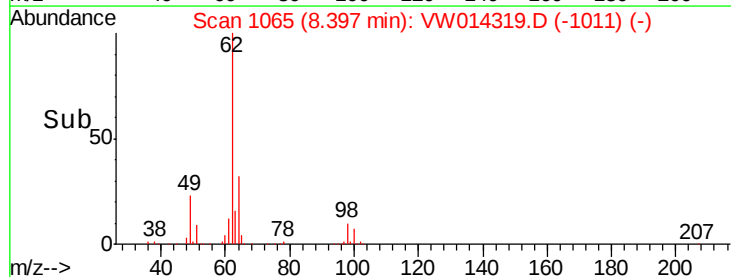
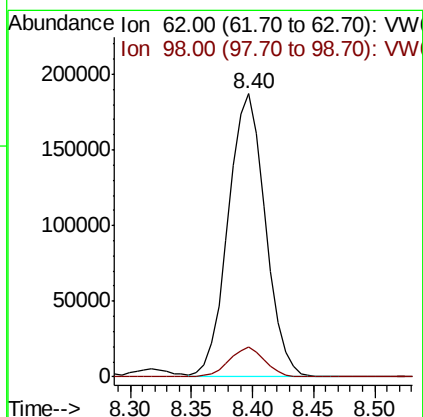
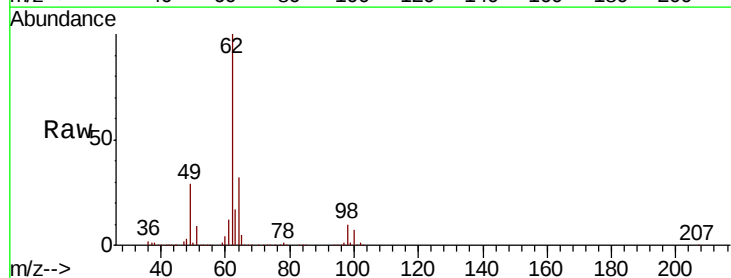
Instrument :
MSVOA_W
ClientSampled :
VSTD02516

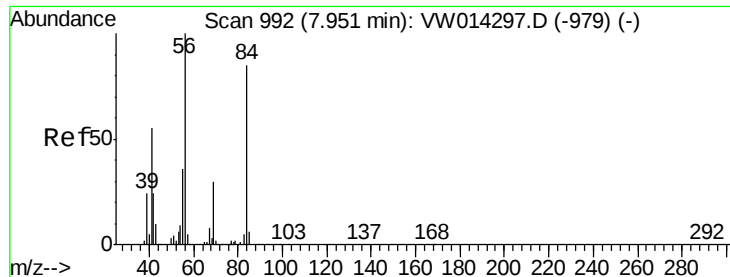
Tot Ion: 83 Resp: 601117
Ion Ratio Lower Upper
83 100
85 65.7 46.1 85.7



#27
1,2-Dichloroethane
Concen: 23.597 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

Tgt Ion: 62 Resp: 393289
Ion Ratio Lower Upper
62 100
98 10.4 9.3 13.9

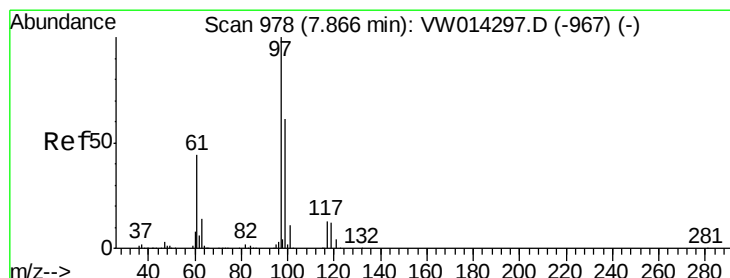
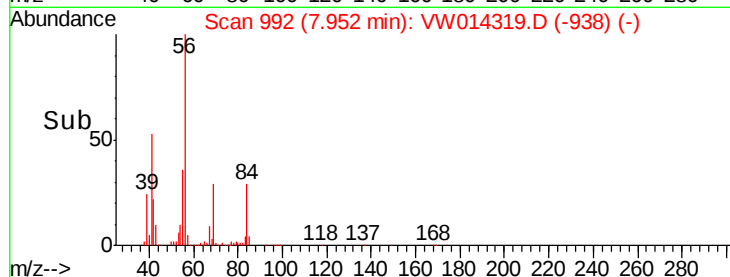
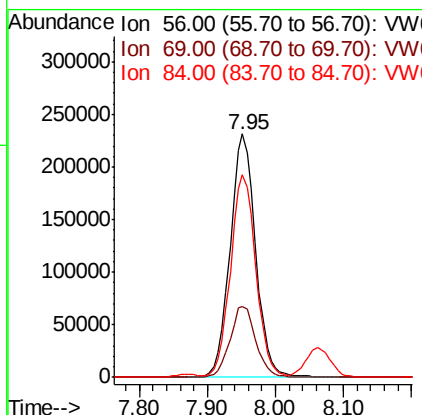
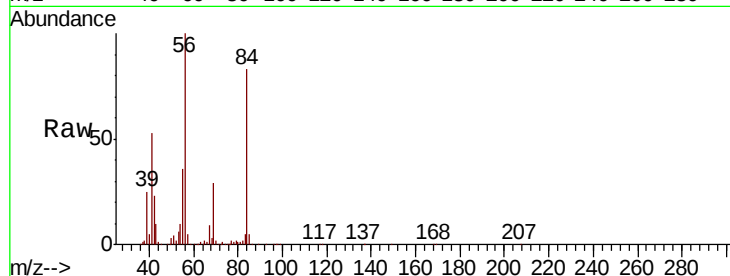




#30
Cyclohexane
Concen: 26.534 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

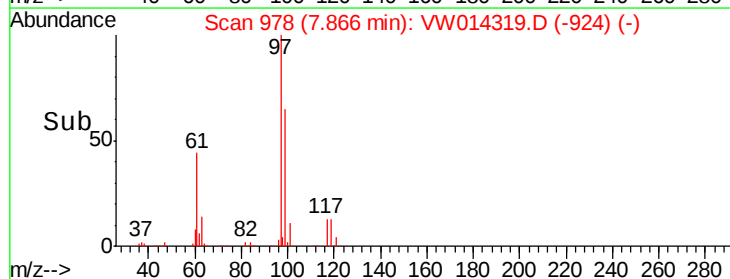
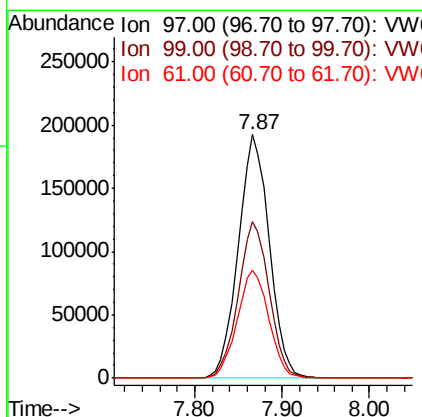
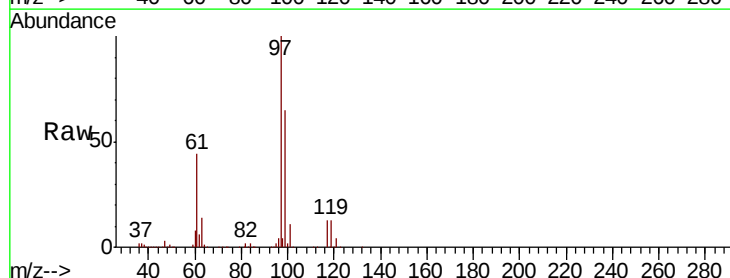
Instrument :
MSVOA_W
ClientSampleId :
VSTD02516

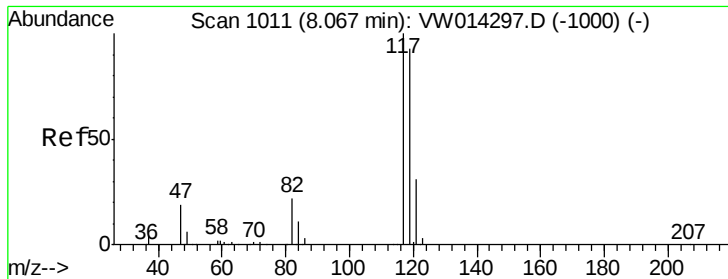
Tot Ion: 56 Resp: 598184
Ion Ratio Lower Upper
56 100
69 29.5 24.6 37.0
84 83.0 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 26.084 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

Tgt Ion: 97 Resp: 473137
Ion Ratio Lower Upper
97 100
99 64.1 51.1 76.7
61 45.1 32.8 49.2



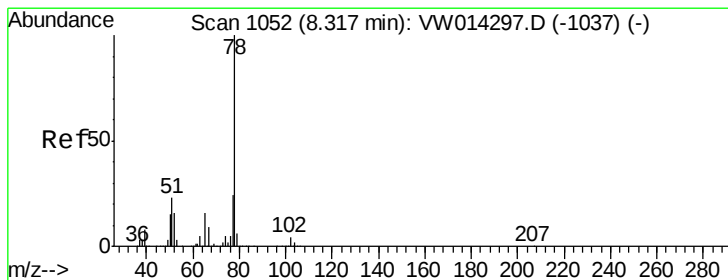
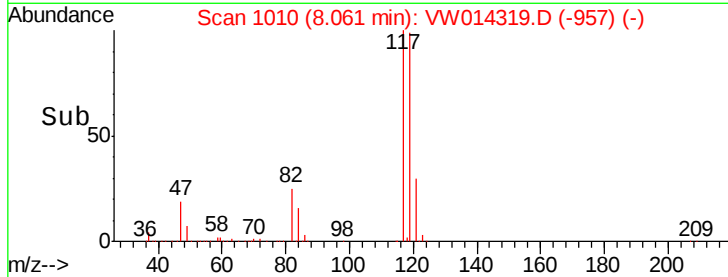
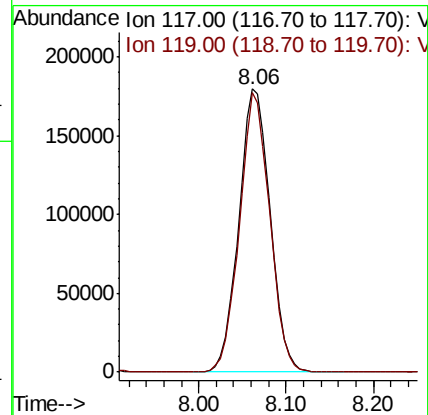
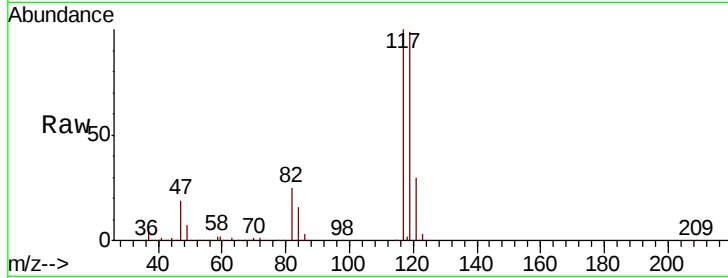


#32

Carbon tetrachloride
Concen: 25.973 ug/L
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

Instrument :
MSVOA_W
ClientSampleId :
VSTD02516

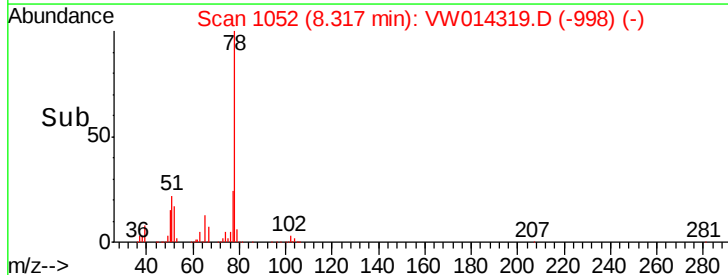
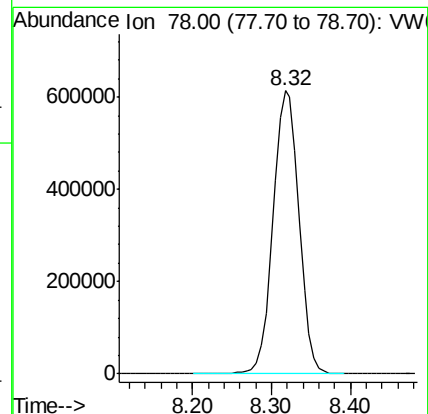
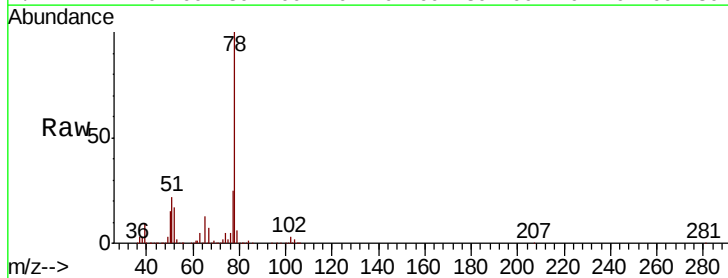
Tot Ion:117 Resp: 447018
Ion Ratio Lower Upper
117 100
119 95.3 76.7 115.1

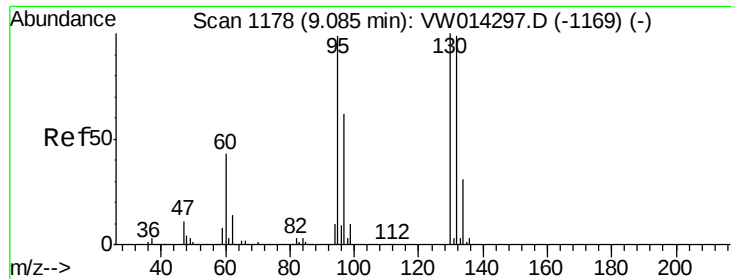


#34

Benzene
Concen: 24.468 ug/L
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW014319.D
Acq: 12 Dec 2019 10:48

Tgt Ion: 78 Resp: 1399251





#35

Trichloroethene

Concen: 23.908 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampled :

VSTD02516

Tot Ion: 95 Resp: 349828

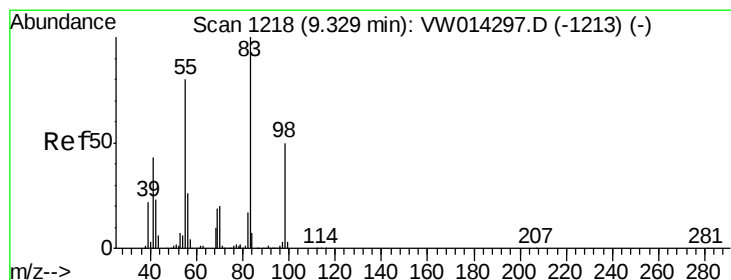
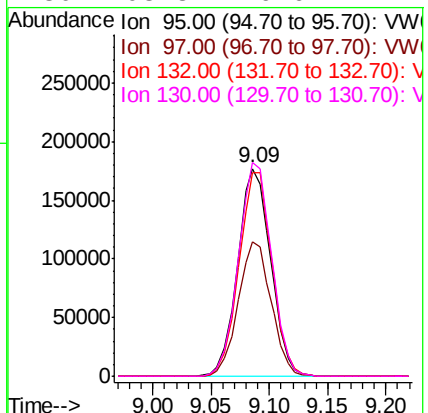
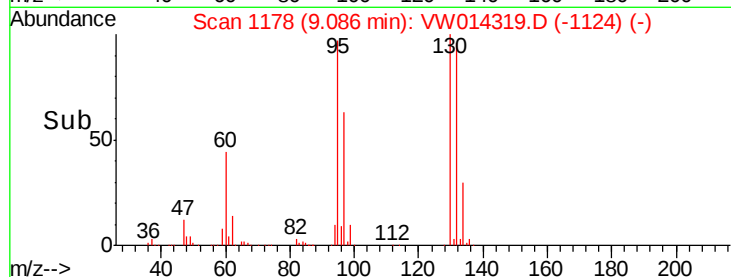
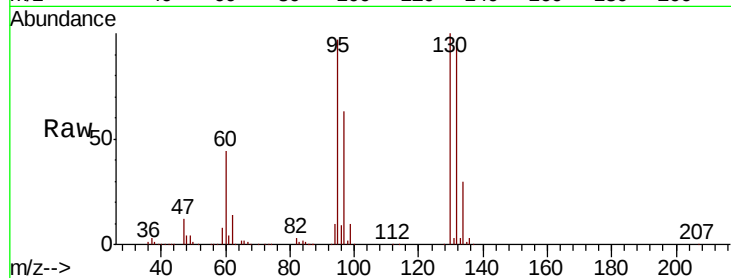
Ion Ratio Lower Upper

95 100

97 64.7 45.1 83.9

132 98.4 73.7 136.9

130 103.3 76.6 142.2



#36

Methylcyclohexane

Concen: 25.275 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

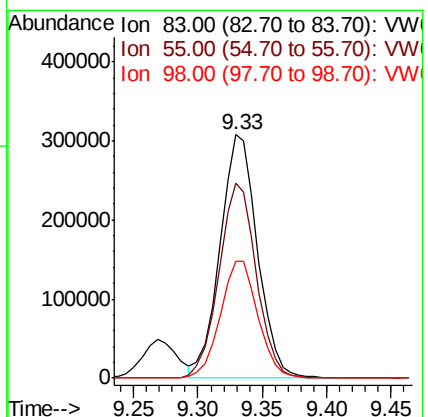
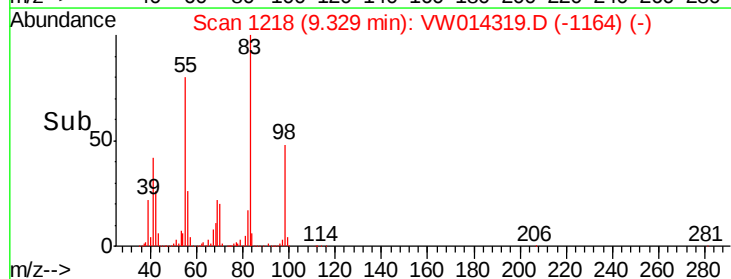
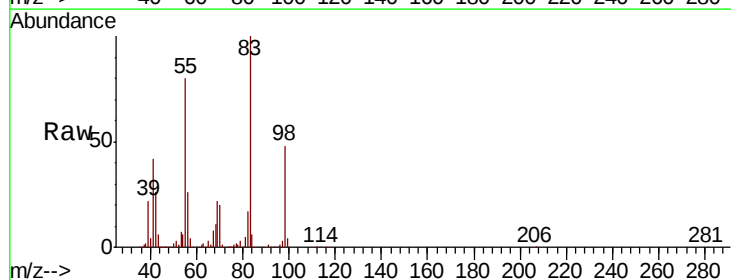
Tgt Ion: 83 Resp: 621463

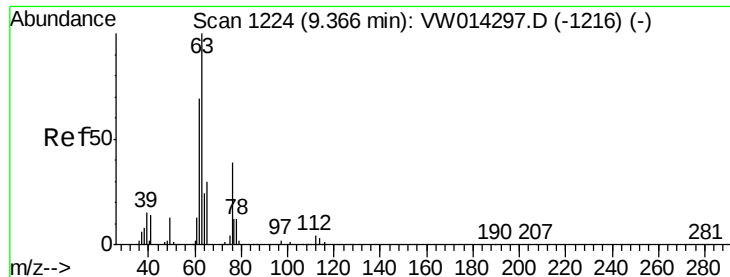
Ion Ratio Lower Upper

83 100

55 80.6 59.8 89.8

98 48.8 39.5 59.3





#40

1,2-Dichloropropane

Concen: 23.938 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

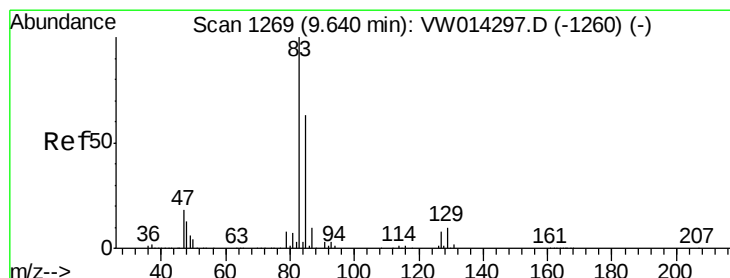
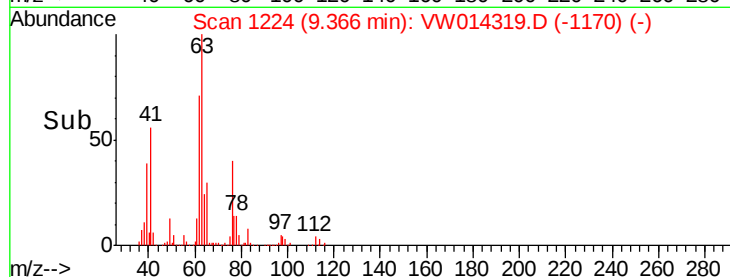
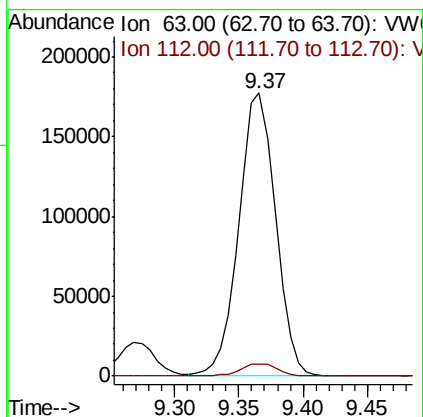
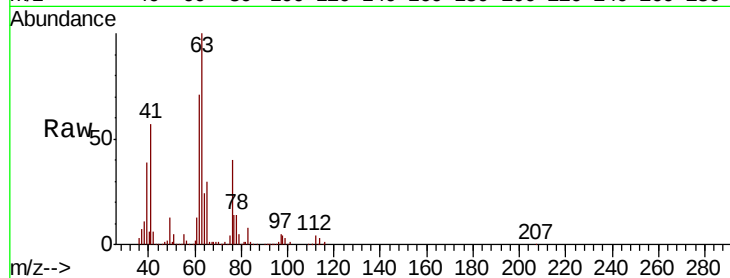
VSTD02516

Tot Ion: 63 Resp: 351699

Ion Ratio Lower Upper

63 100

112 4.4 3.9 5.9



#41

Bromodichloromethane

Concen: 23.594 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

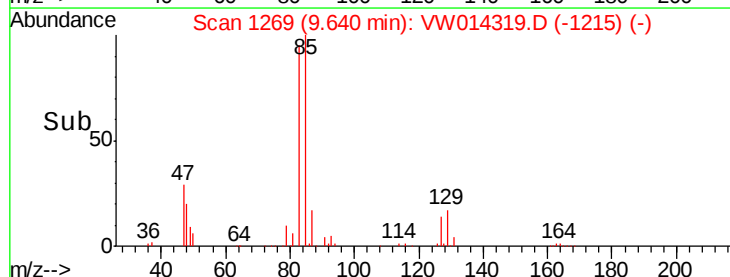
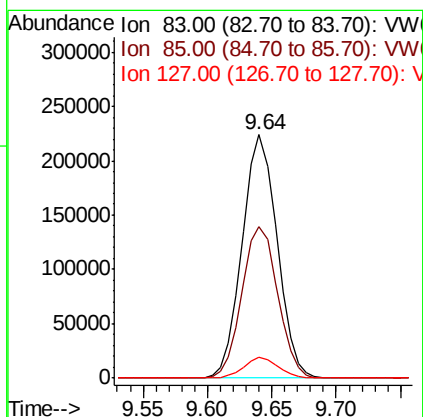
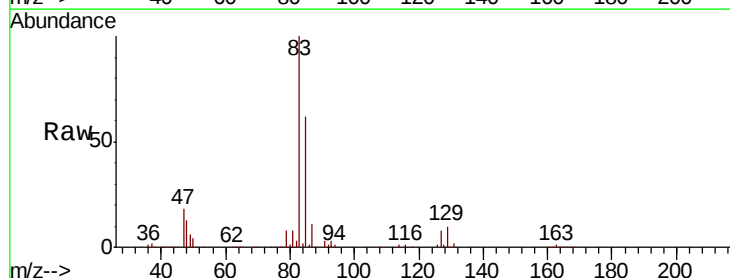
Tgt Ion: 83 Resp: 421259

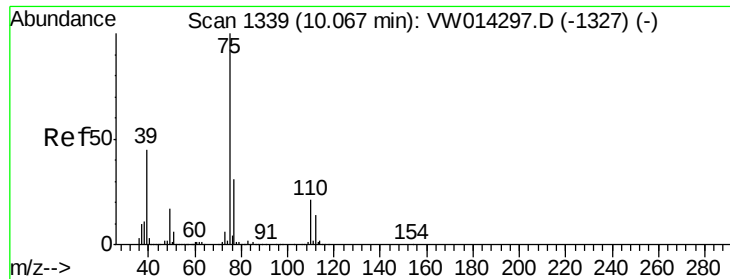
Ion Ratio Lower Upper

83 100

85 62.2 45.1 83.7

127 8.4 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 24.042 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

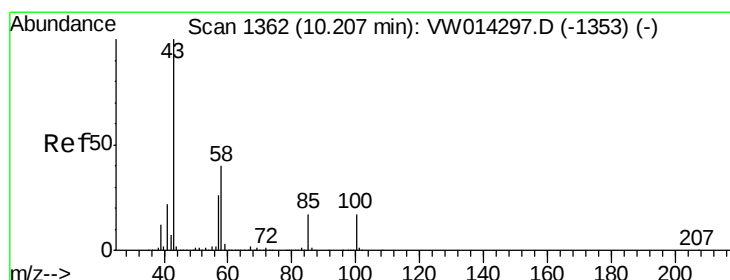
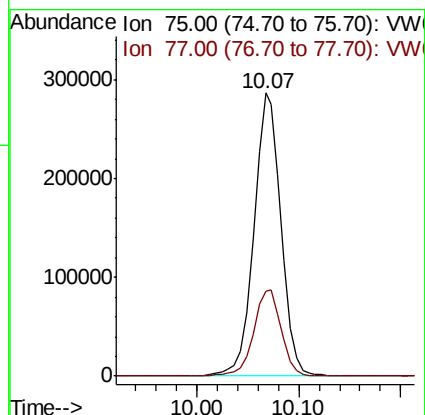
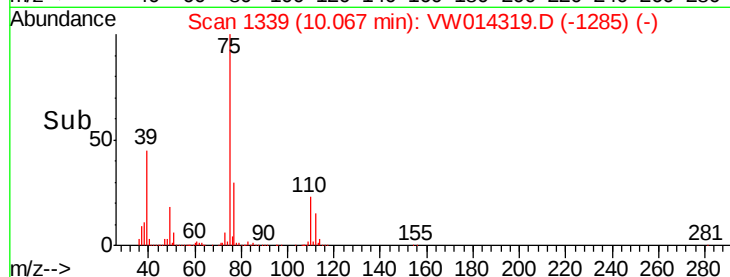
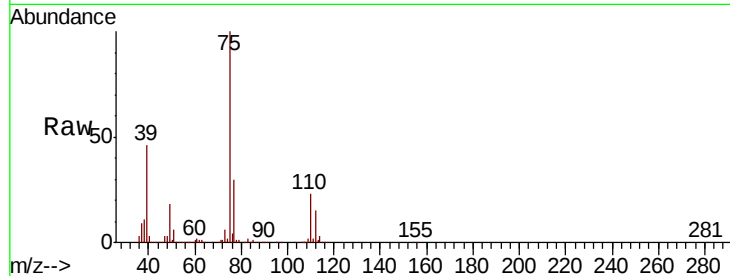
VSTD02516

Tot Ion: 75 Resp: 528985

Ion Ratio Lower Upper

75 100

77 29.9 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 50.621 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

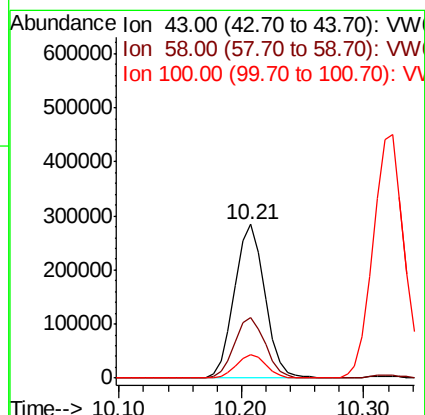
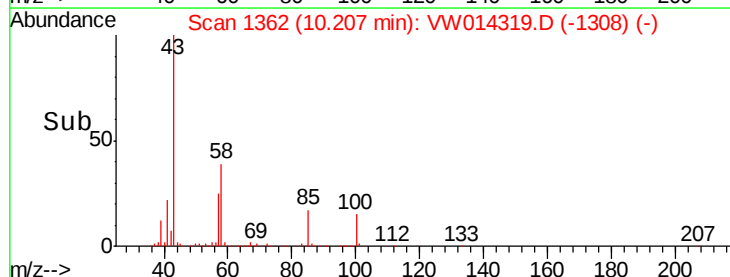
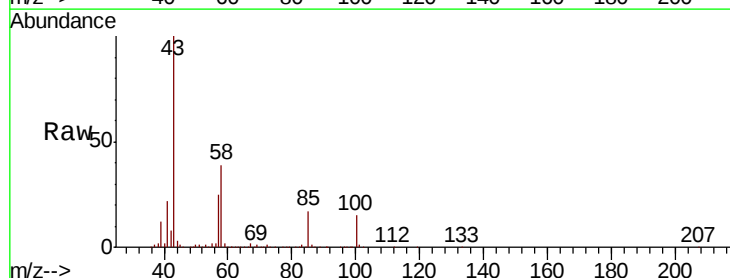
Tgt Ion: 43 Resp: 490420

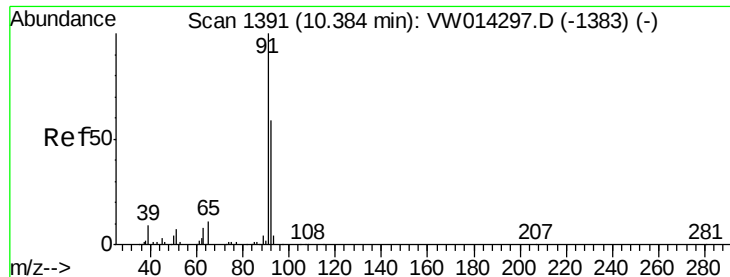
Ion Ratio Lower Upper

43 100

58 39.6 32.6 49.0

100 14.9 13.8 20.8





#44

Toluene

Concen: 24.614 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

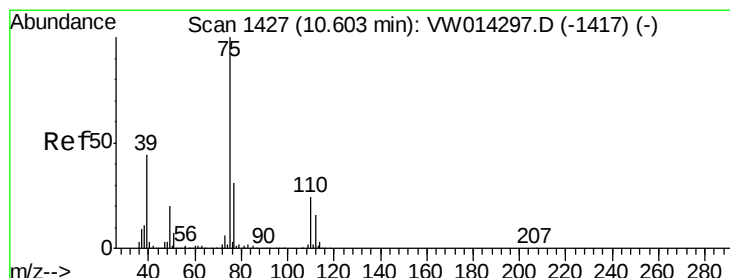
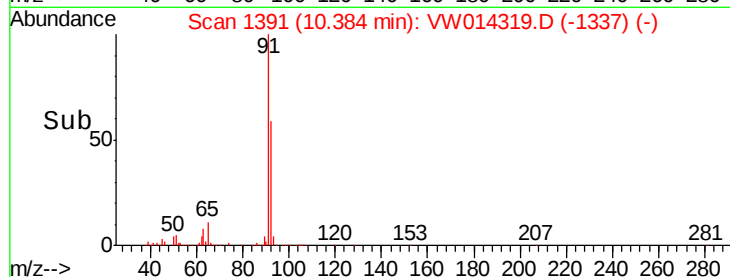
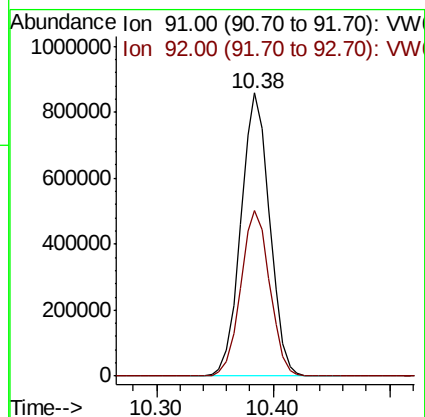
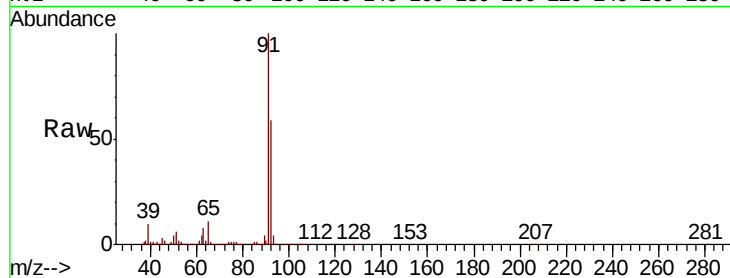
VSTD02516

Tot Ion: 91 Resp: 1475744

Ion Ratio Lower Upper

91 100

92 58.5 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 23.878 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014319.D

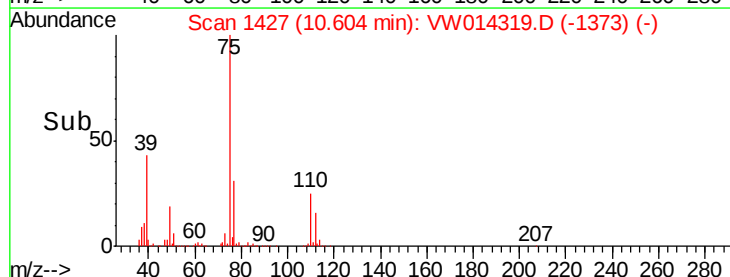
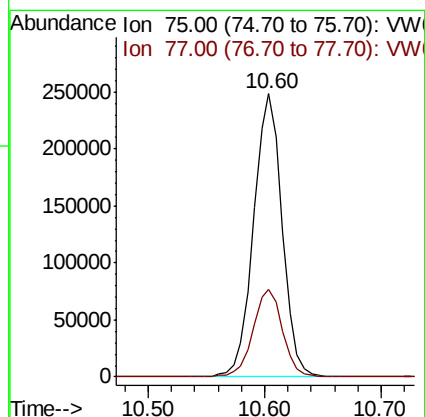
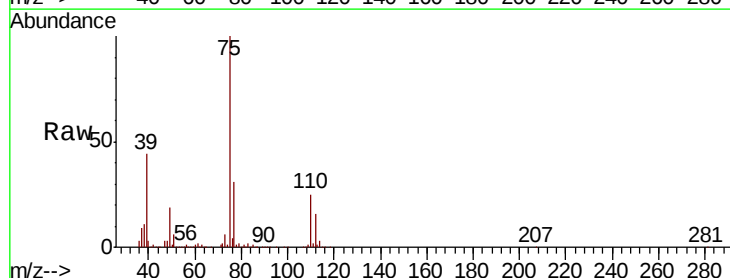
Acq: 12 Dec 2019 10:48

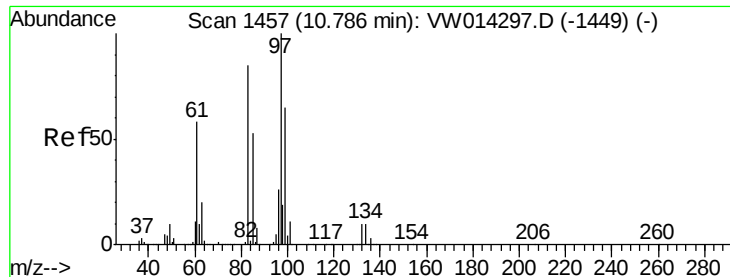
Tgt Ion: 75 Resp: 425269

Ion Ratio Lower Upper

75 100

77 30.7 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 22.810 ug/L

RT: 10.78 min Scan# 1456

Delta R.T. -0.01 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

Tot Ion: 97 Resp: 251122

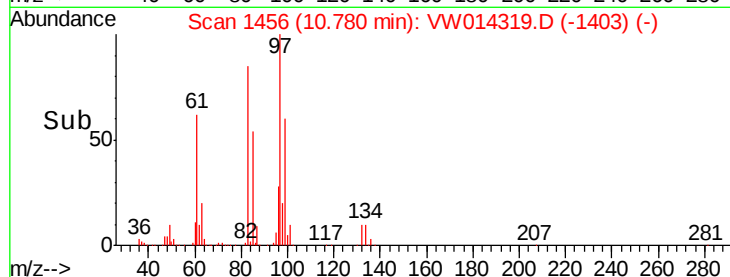
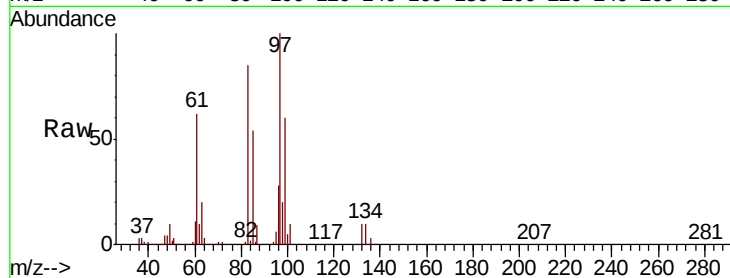
Ion Ratio Lower Upper

97 100

83 85.1 58.9 109.5

85 53.8 38.1 70.9

99 60.3 46.5 86.3



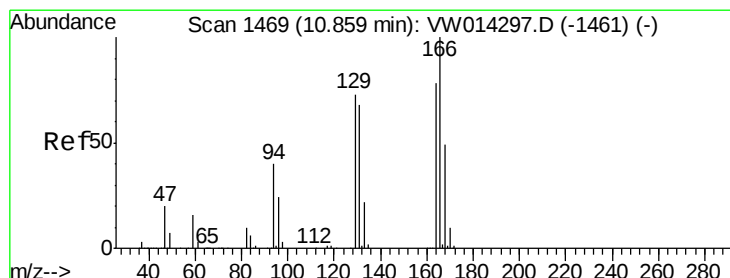
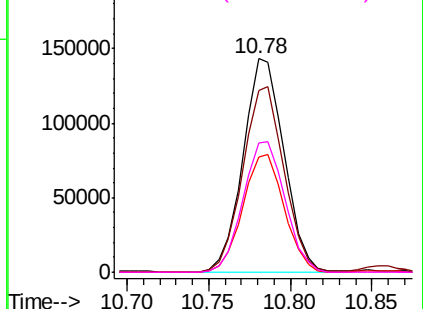
Abundance

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: 23.516 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Tgt Ion: 164 Resp: 286796

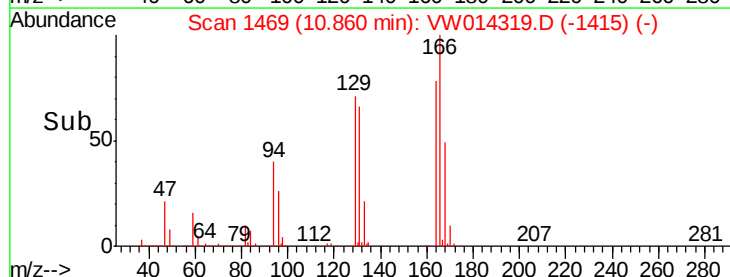
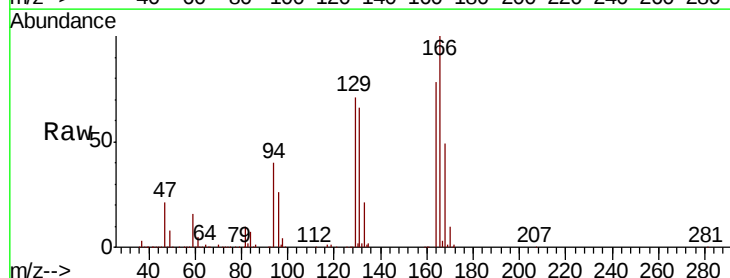
Ion Ratio Lower Upper

164 100

129 90.7 60.6 112.6

131 83.9 59.1 109.7

166 127.7 90.8 168.6



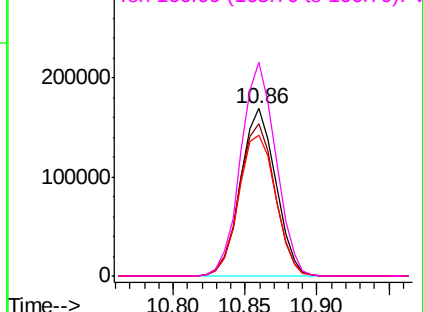
Abundance

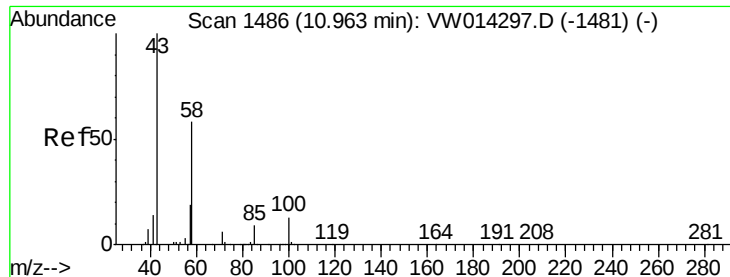
Ion 164.00 (163.70 to 164.70): V

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: 54.693 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

Tot Ion: 43 Resp: 377236

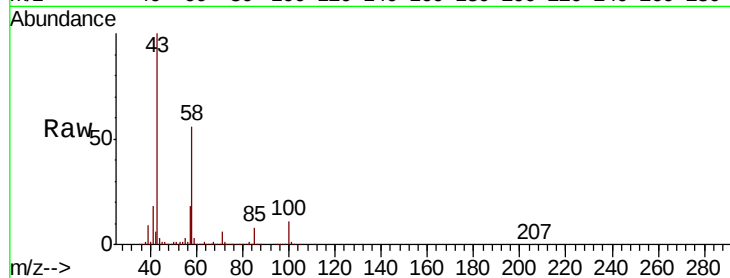
Ion Ratio Lower Upper

43 100

58 55.8 44.4 66.6

57 18.2 16.5 24.7

100 12.1 11.1 16.7

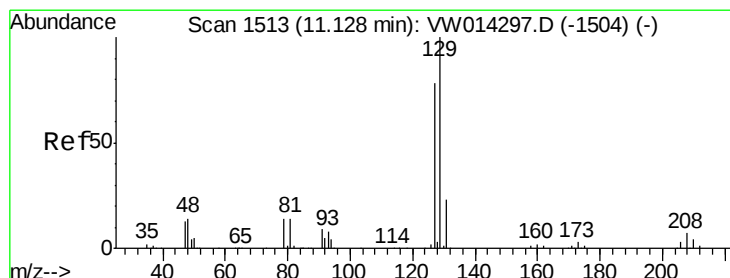
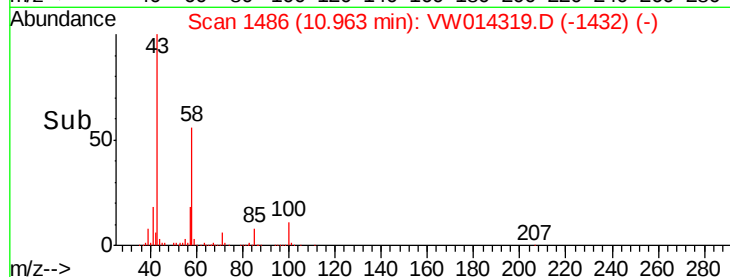
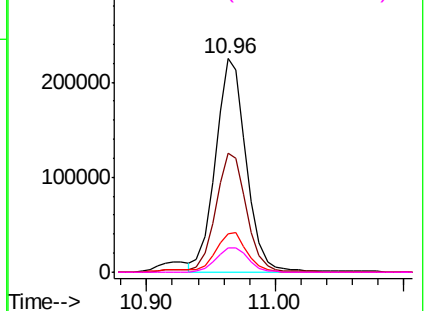


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 22.882 ug/L

RT: 11.12 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VW014319.D

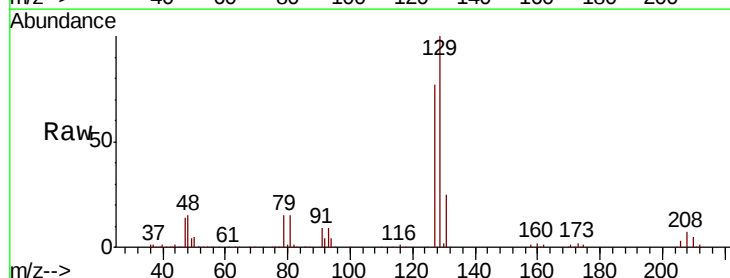
Acq: 12 Dec 2019 10:48

Tgt Ion: 129 Resp: 282735

Ion Ratio Lower Upper

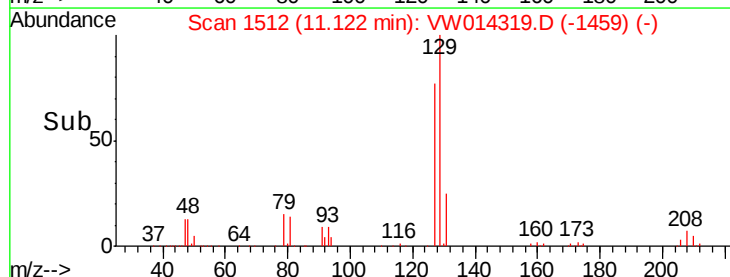
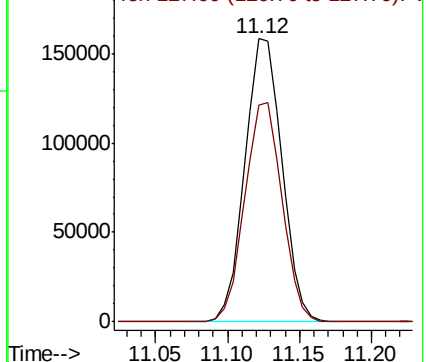
129 100

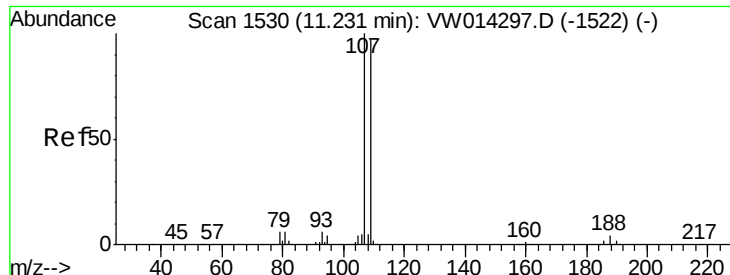
127 76.8 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 23.159 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

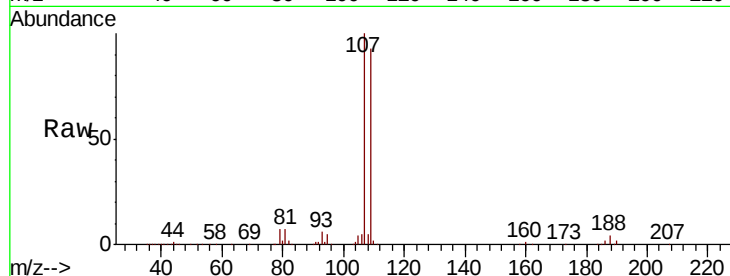
Instrument :

MSVOA_W

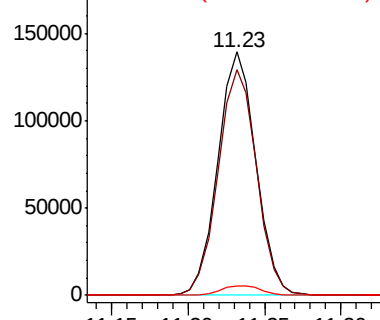
ClientSampleId :

VSTD02516

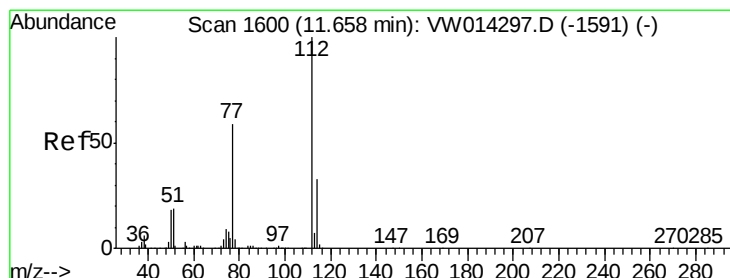
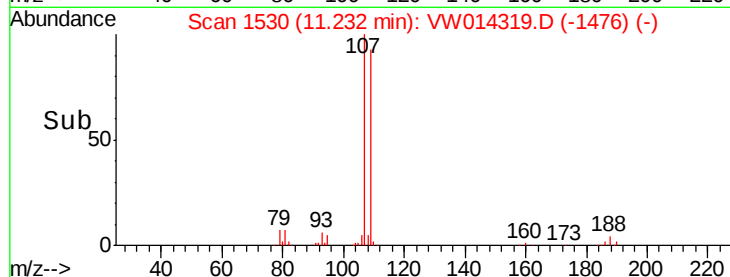
Tot Ion:107	Resp:	241508
Ion Ratio	Lower	Upper
107	100	
109	92.7	64.6 120.0
188	3.9	3.9 5.9#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



Time-->



#52

Chlorobenzene

Concen: 23.119 ug/L

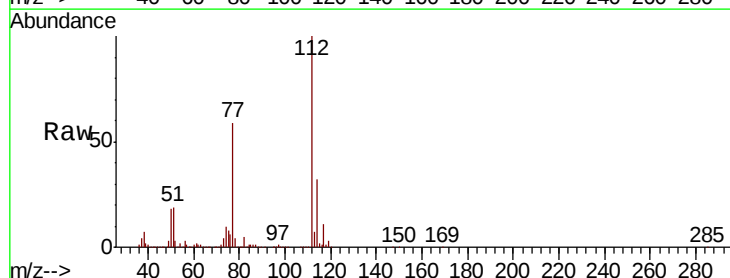
RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

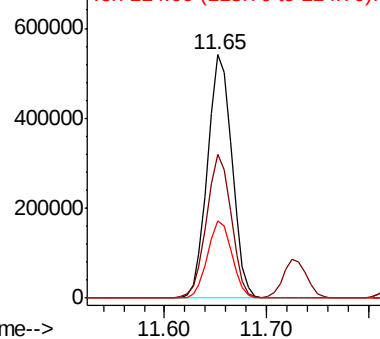
Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

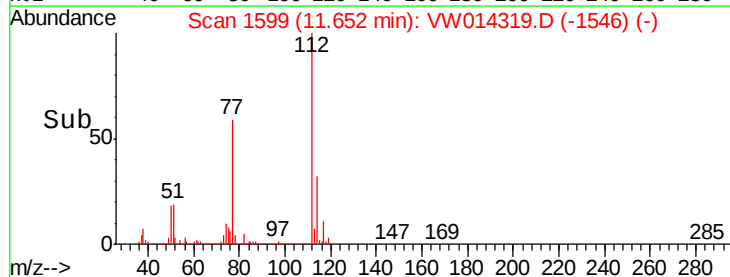
Tgt Ion:112	Resp:	895848
Ion Ratio	Lower	Upper
112	100	
77	59.0	42.2 63.4
114	31.6	22.5 41.9

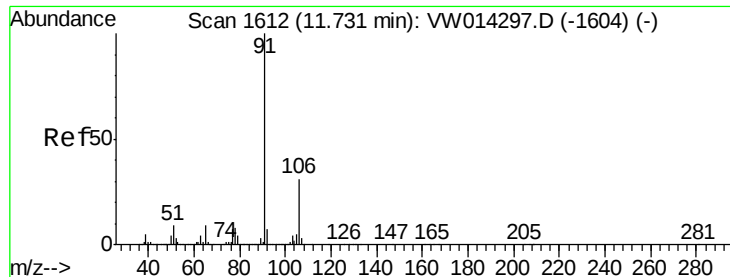


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V



Time-->





#53

Ethylbenzene

Concen: 24.217 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampled :

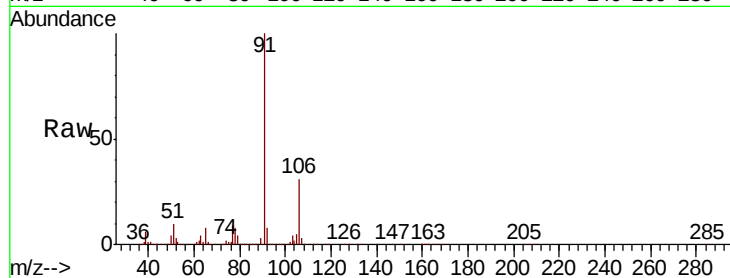
VSTD02516

Tot Ion: 91 Resp: 1575457

Ion Ratio Lower Upper

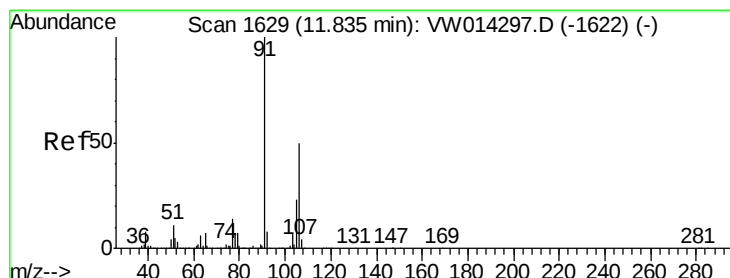
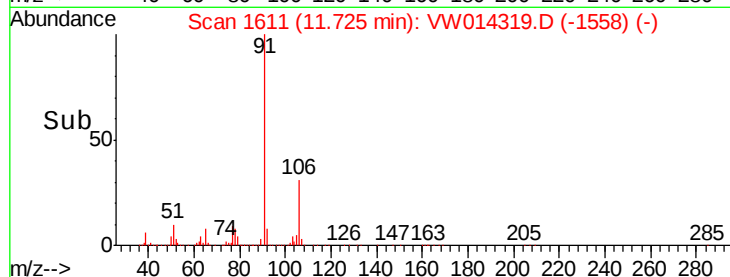
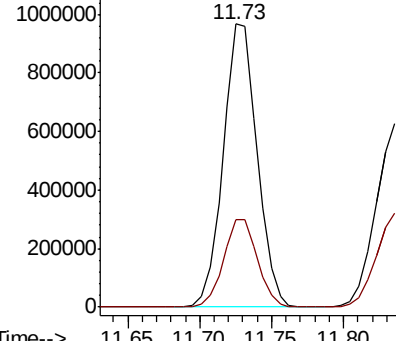
91 100

106 31.0 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 24.093 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014319.D

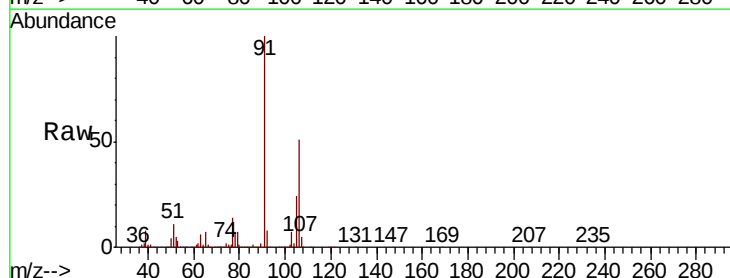
Acq: 12 Dec 2019 10:48

Tgt Ion: 106 Resp: 602930

Ion Ratio Lower Upper

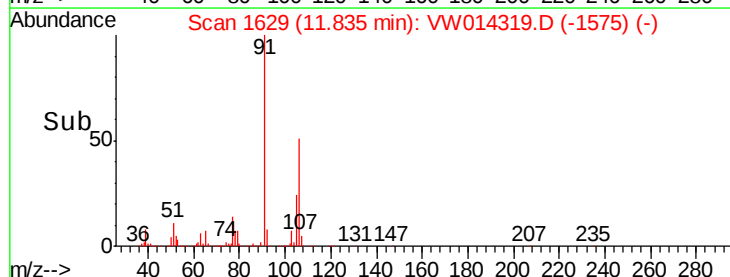
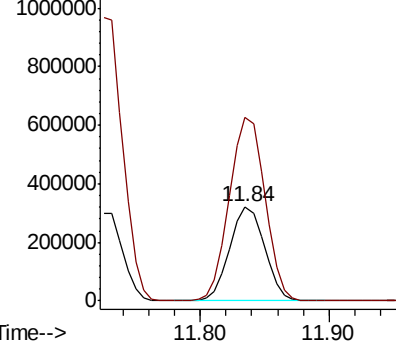
106 100

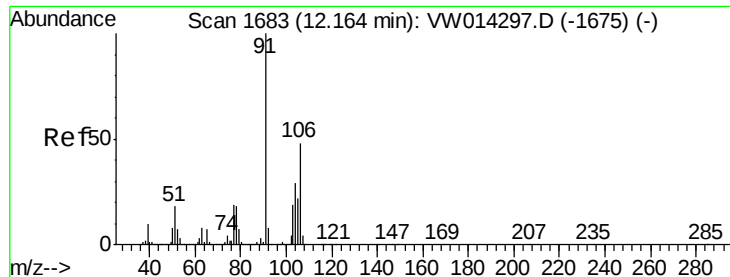
91 195.3 138.7 257.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 23.971 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampled :

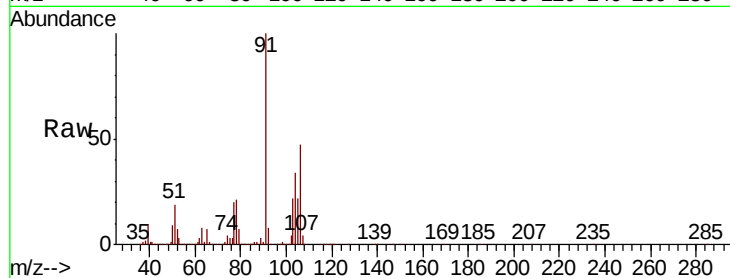
VSTD02516

Tot Ion:106 Resp: 568982

Ion Ratio Lower Upper

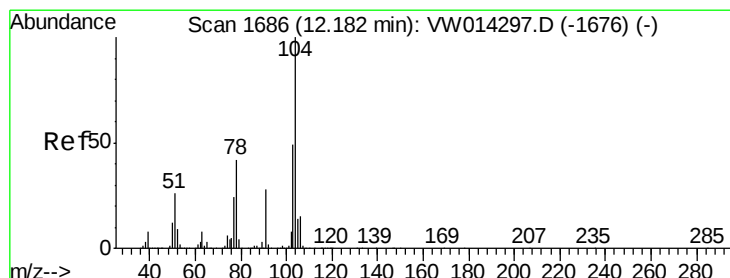
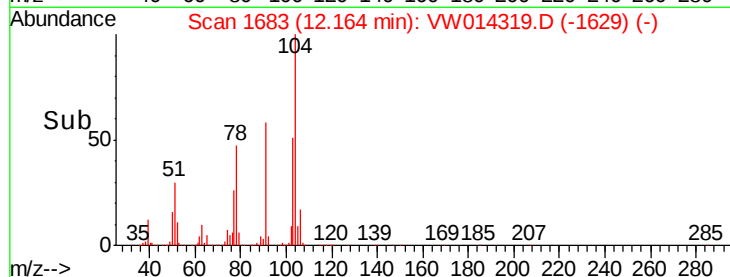
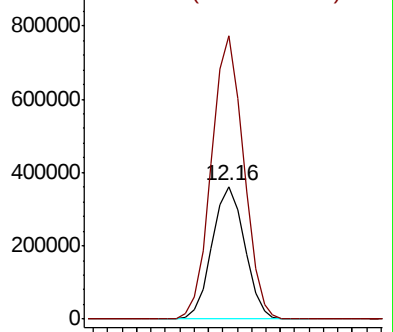
106 100

91 212.9 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.537 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VW014319.D

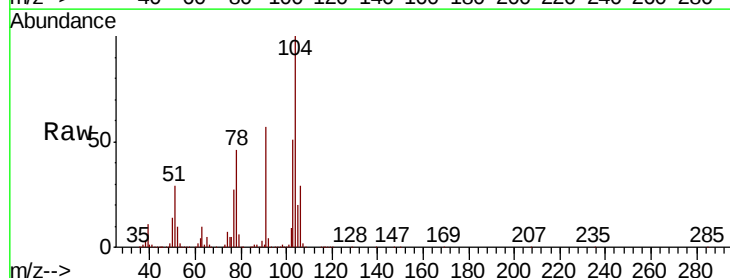
Acq: 12 Dec 2019 10:48

Tgt Ion:104 Resp: 996402

Ion Ratio Lower Upper

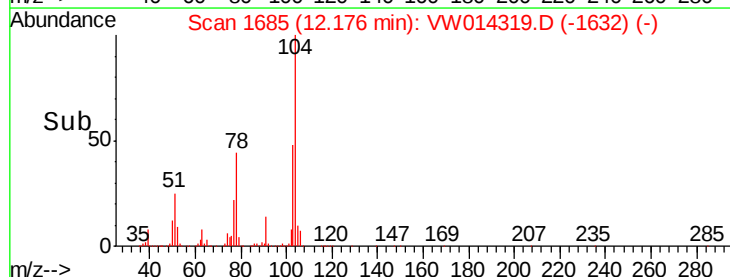
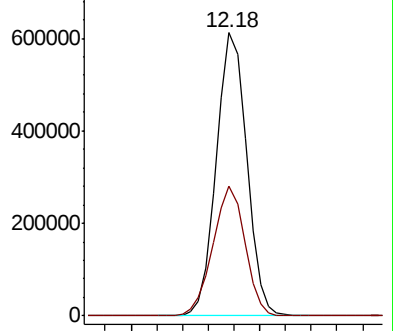
104 100

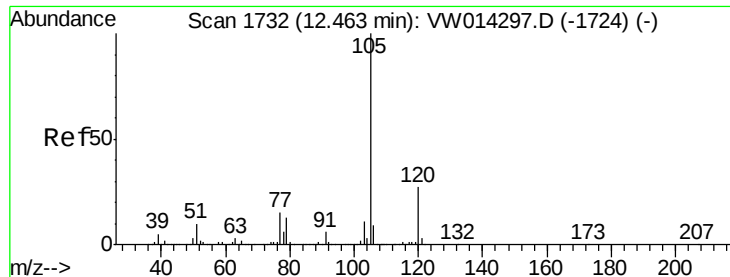
78 45.7 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.651 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

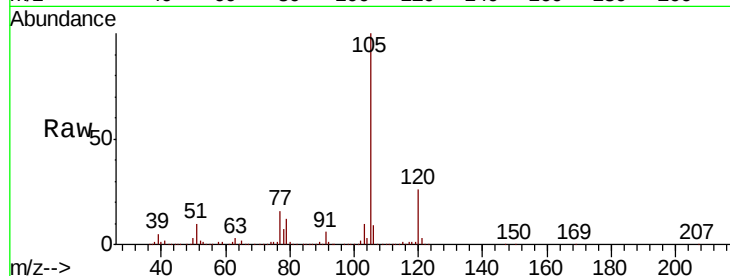
Tot Ion:105 Resp: 1519090

Ion Ratio Lower Upper

105 100

120 26.7 21.6 32.4

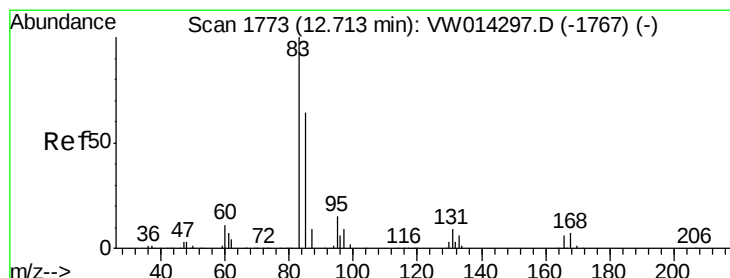
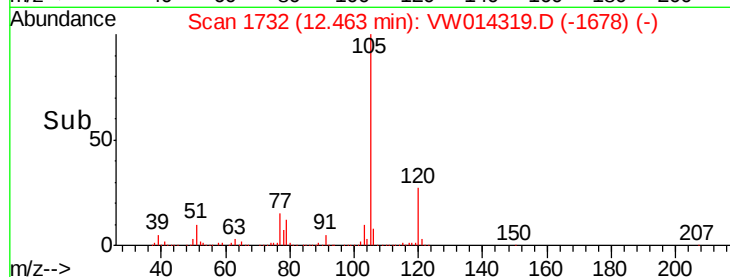
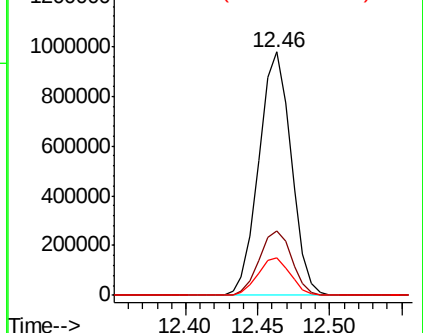
77 15.5 11.6 17.4



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: 23.238 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

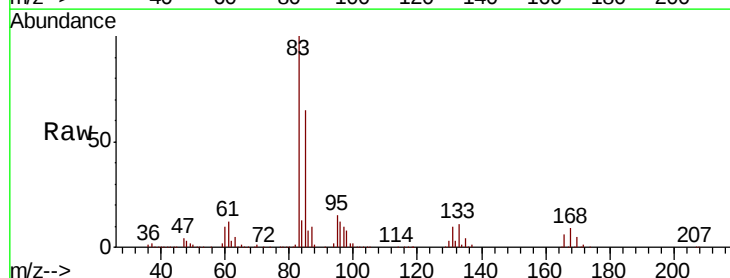
Tgt Ion: 83 Resp: 317536

Ion Ratio Lower Upper

83 100

85 64.7 43.7 81.1

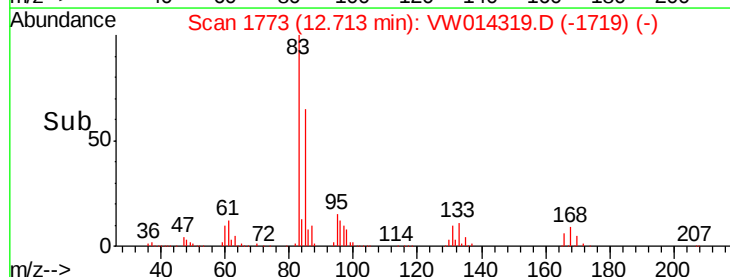
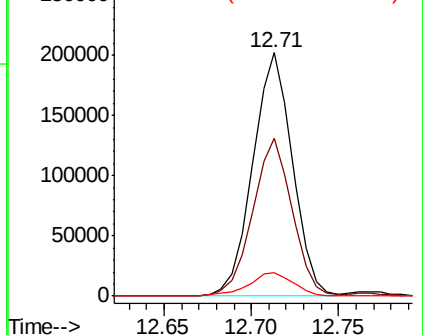
131 9.8 8.2 12.2

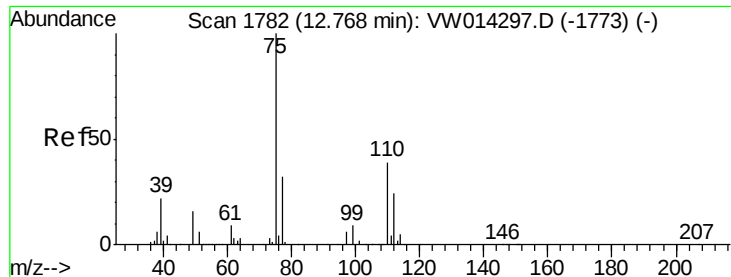


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

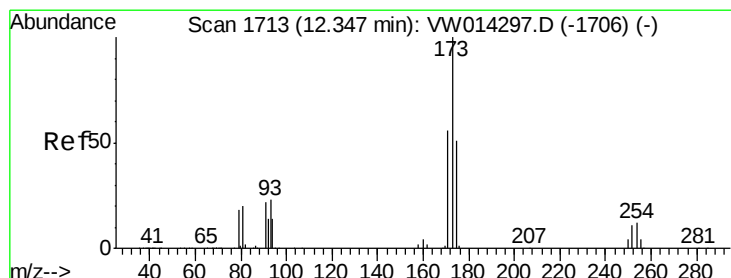
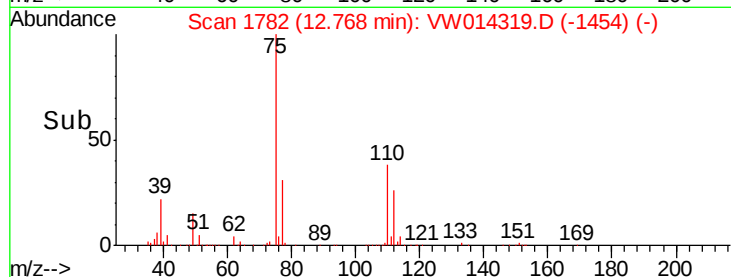
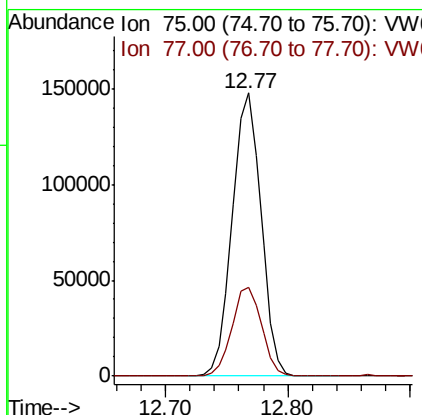
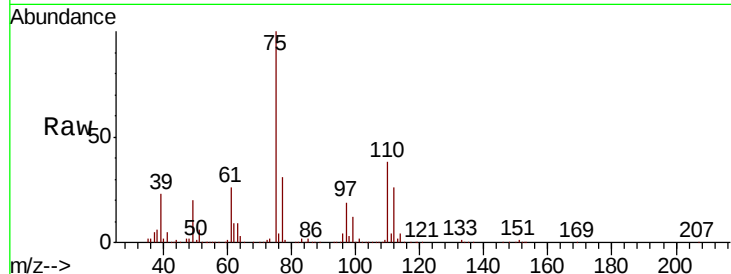




#59
 1,2,3-Trichloropropane
 Concen: 23.703 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

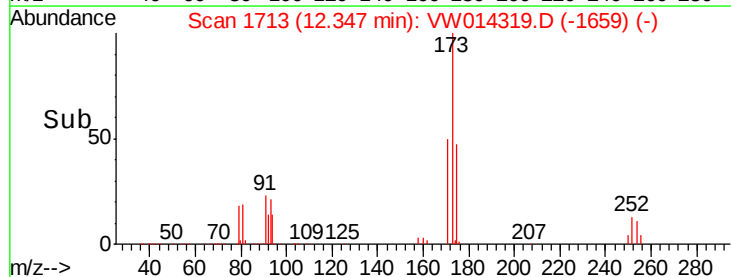
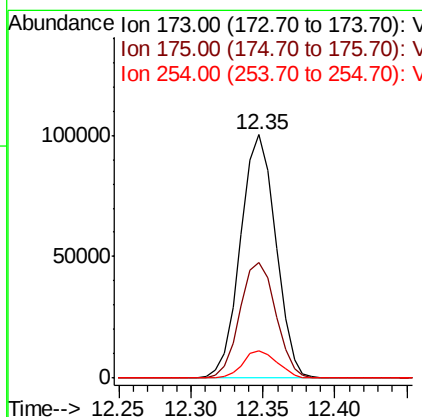
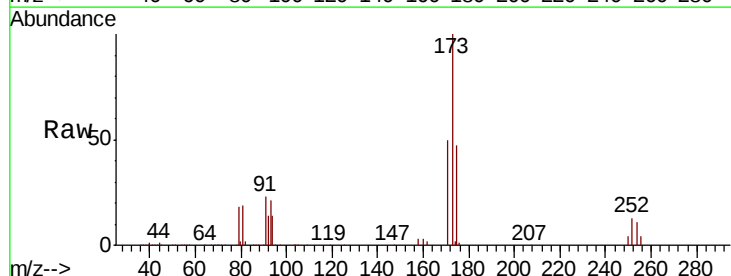
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

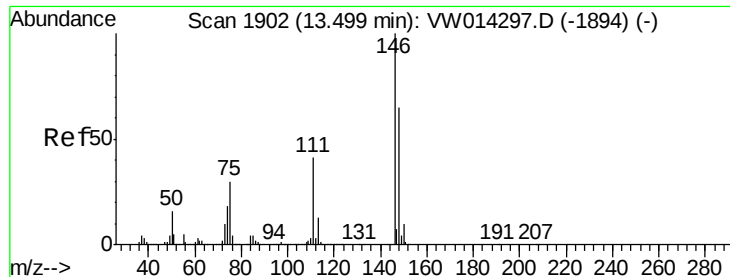
Tot Ion: 75 Resp: 240670
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.9 38.9



#62
 Bromoform
 Concen: 22.825 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

Tgt Ion: 173 Resp: 170315
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.8 58.2
 254 11.2 9.4 14.0

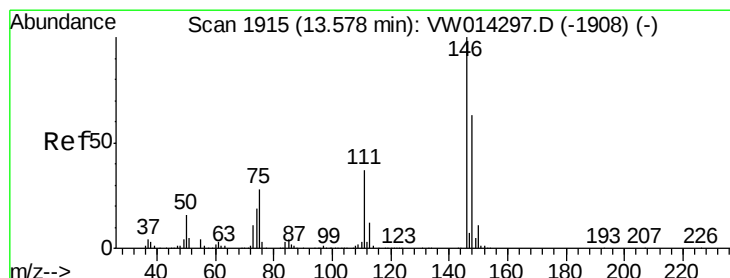
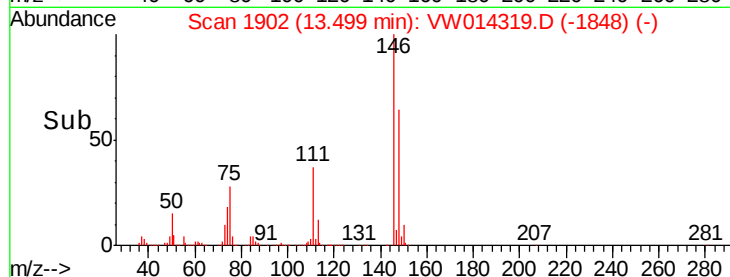
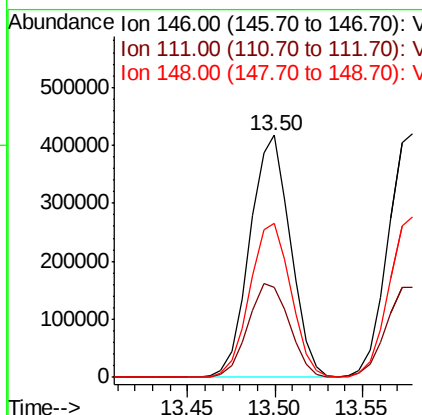
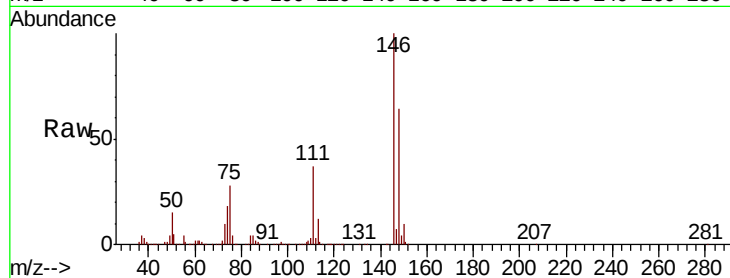




#63
 1,3-Dichlorobenzene
 Concen: 22.735 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

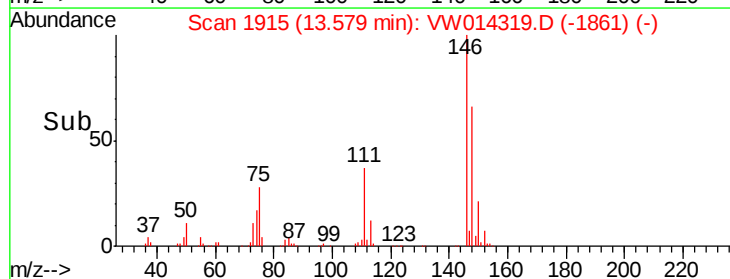
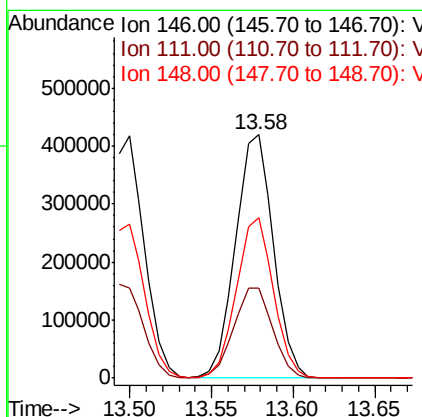
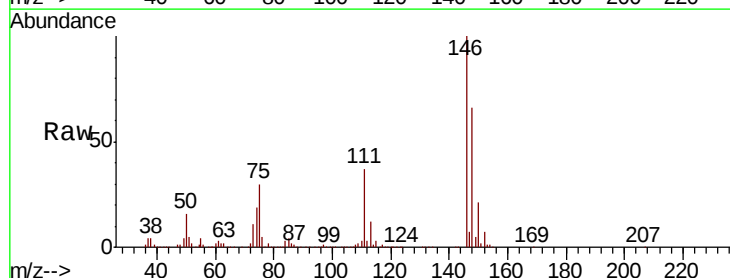
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02516

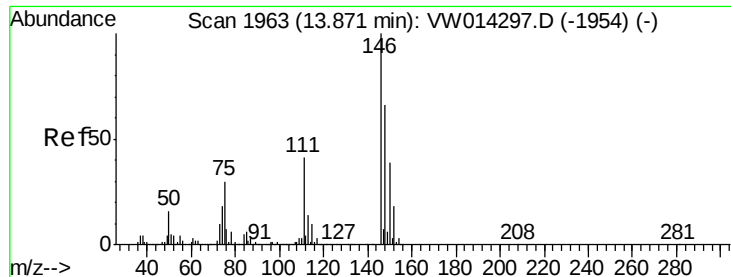
Tot Ion:146 Resp: 671819
 Ion Ratio Lower Upper
 146 100
 111 37.5 26.0 48.2
 148 63.6 44.7 82.9



#64
 1,4-Dichlorobenzene
 Concen: 22.590 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

Tgt Ion:146 Resp: 678214
 Ion Ratio Lower Upper
 146 100
 111 37.0 24.9 46.3
 148 65.8 43.9 81.5

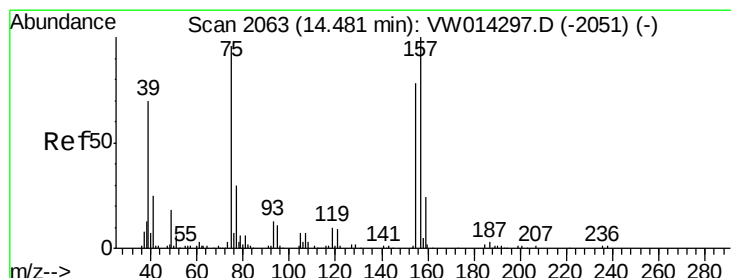
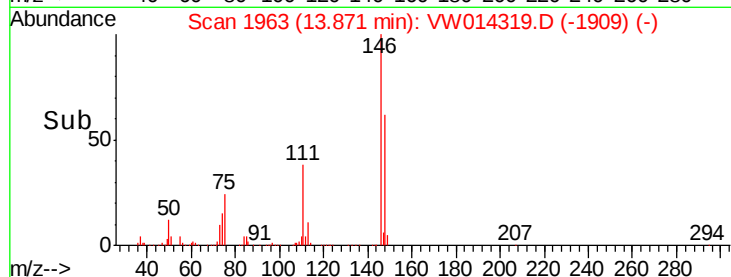
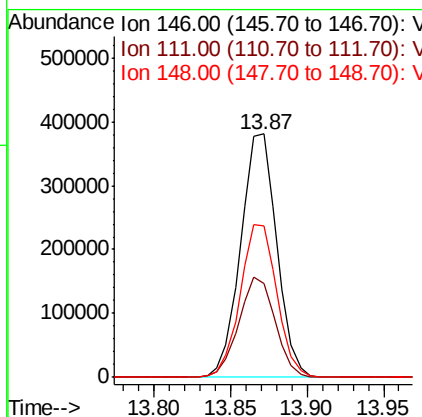
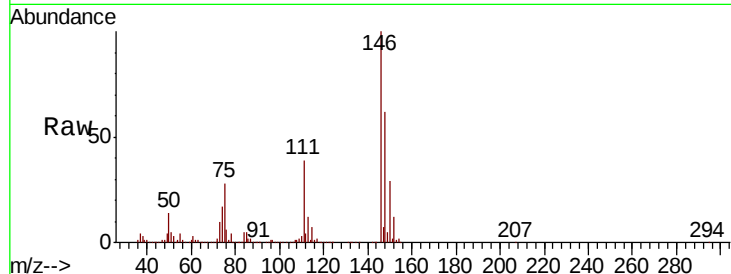




#65
 1,2-Dichlorobenzene
 Concen: 22.731 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

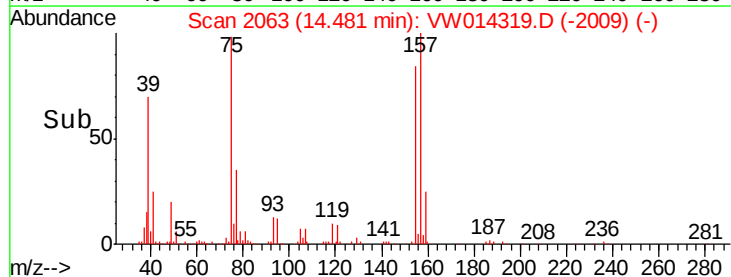
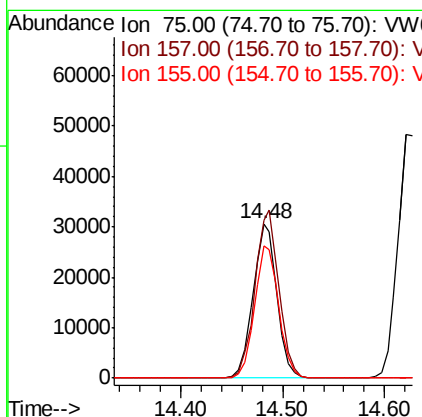
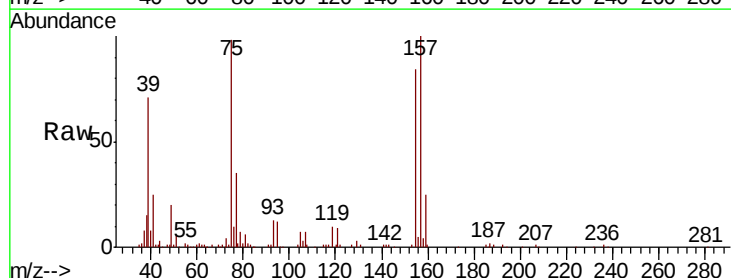
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

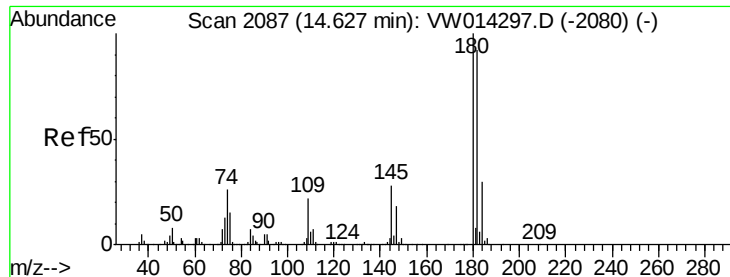
Tot Ion:146 Resp: 624637
 Ion Ratio Lower Upper
 146 100
 111 38.8 30.5 45.7
 148 62.2 49.4 74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.644 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

Tgt Ion: 75 Resp: 50122
 Ion Ratio Lower Upper
 75 100
 157 102.1 96.9 145.3
 155 86.1 82.9 124.3

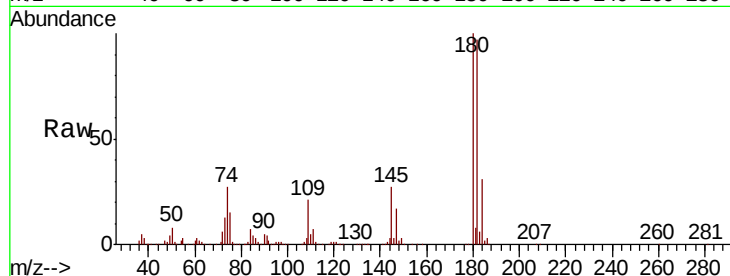




#67
 1,3,5-Trichlorobenzene
 Concen: 23.467 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.2
184	30.5	24.3	36.5
145	28.1	21.9	32.9



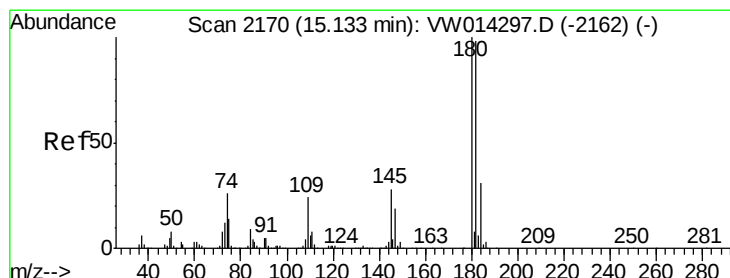
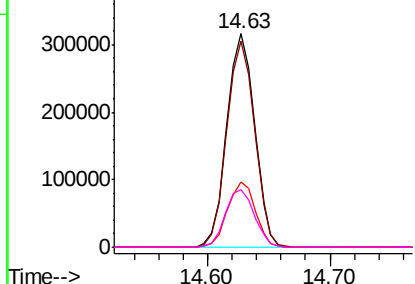
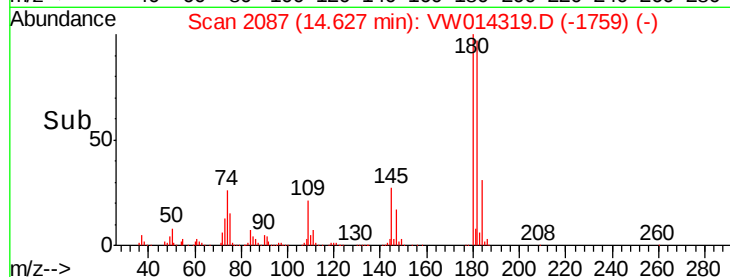
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

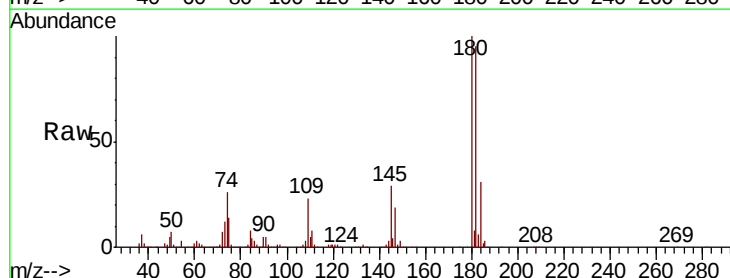
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 23.303 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014319.D
 Acq: 12 Dec 2019 10:48

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.8	113.8
145	29.2	22.4	33.6

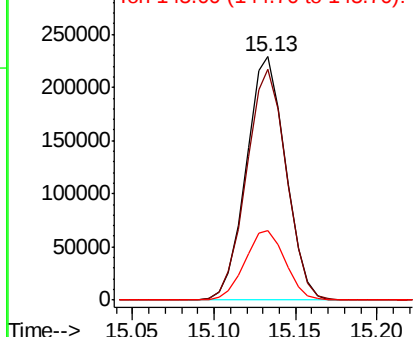
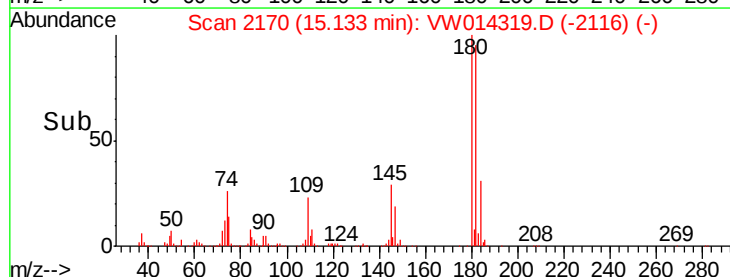


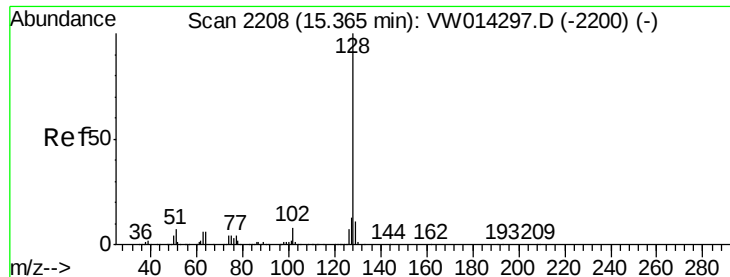
Abundance

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: 23.939 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

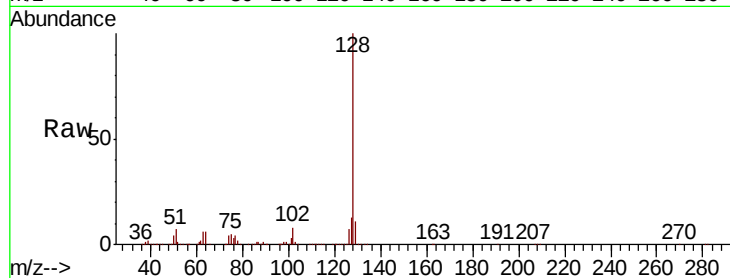
Tot Ion:128 Resp: 746131

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

127 13.0 10.4 15.6

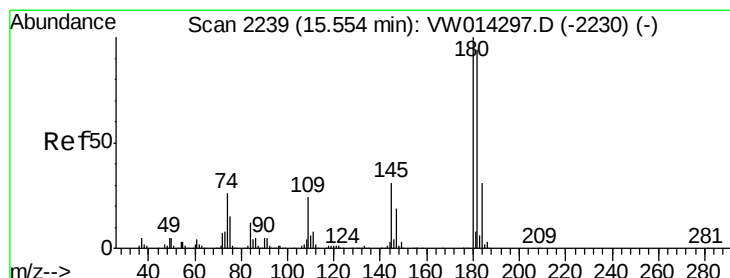
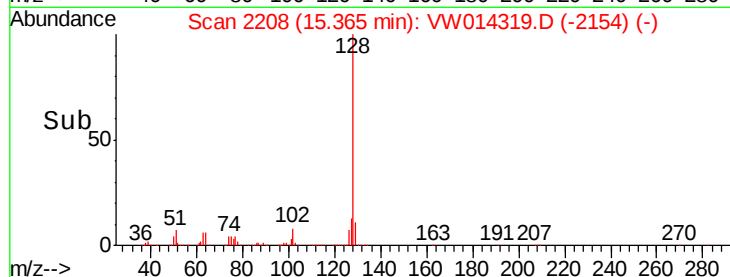
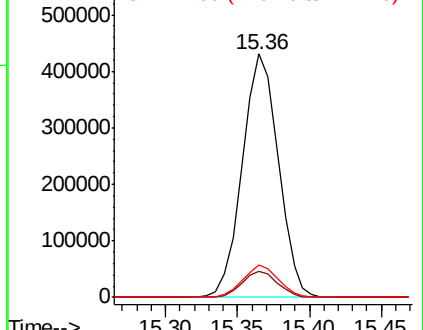


Abundance

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: 22.932 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014319.D

Acq: 12 Dec 2019 10:48

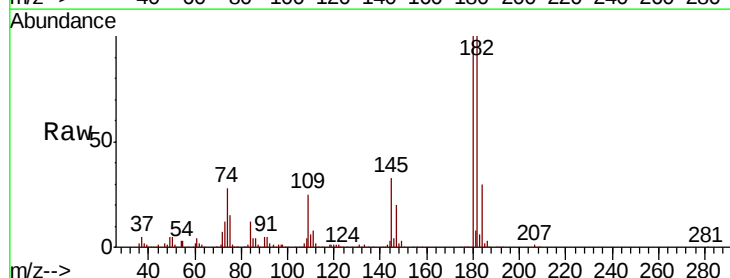
Tgt Ion:180 Resp: 356427

Ion Ratio Lower Upper

180 100

182 97.3 75.8 113.6

145 31.0 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

