

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102119\
 Data File : VW013644.D
 Acq On : 21 Oct 2019 19:04
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02525

Quant Time: Oct 21 19:27:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 21 16:37:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	331640	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	322415	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	198183	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	94516	23.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.92%
7) Chloroethane-d5	2.89	69	82793	21.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.20%
10) 1,1-Dichloroethene-d2	4.03	63	212714	23.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	94.68%
20) 2-Butanone-d5	7.07	46	70594	48.51	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.02%
24) Chloroform-d	7.65	84	216974	23.38	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.52%
26) 1,2-Dichloroethane-d4	8.30	65	111013	22.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.52%
29) Benzene-d6	8.27	84	436780	22.55	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.20%
33) 1,2-Dichloropropane-d6	9.27	67	135442	23.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.64%
37) Toluene-d8	10.32	98	404237	22.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.52%
38) trans-1,3-Dichloropropene-	10.57	79	60338	23.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.48%
39) 2-Hexanone-d5	10.92	63	58624	53.01	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	106.02%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	119404	25.20	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	100.80%
61) 1,2-Dichlorobenzene-d4	13.85	152	160413	22.90	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	86208	23.111	ug/L	95
3) Chloromethane	2.21	50	84054	20.816	ug/L	99
5) Vinyl chloride	2.37	62	135971	26.946	ug/L	100
6) Bromomethane	2.78	94	85978	23.580	ug/L	96
8) Chloroethane	2.93	64	83084	24.364	ug/L	97
9) Trichlorofluoromethane	3.26	101	77701	22.846	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	136478	25.483	ug/L	99
12) 1,1-Dichloroethene	4.05	96	136677	25.931	ug/L	91
13) Acetone	4.13	43	55974	34.654	ug/L	97
14) Carbon disulfide	4.39	76	394599	26.165	ug/L	99
15) Methyl Acetate	4.67	43	69388	26.291	ug/L	98
16) Methylene chloride	4.92	84	151885	23.917	ug/L	97
17) Methyl tert-butyl Ether	5.43	73	189859	26.034	ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	148014	25.404	ug/L	93
19) 1,1-Dichloroethane	6.21	63	248970	25.245	ug/L	98
21) 2-Butanone	7.17	43	93417	45.551	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	158111	25.282	ug/L	97

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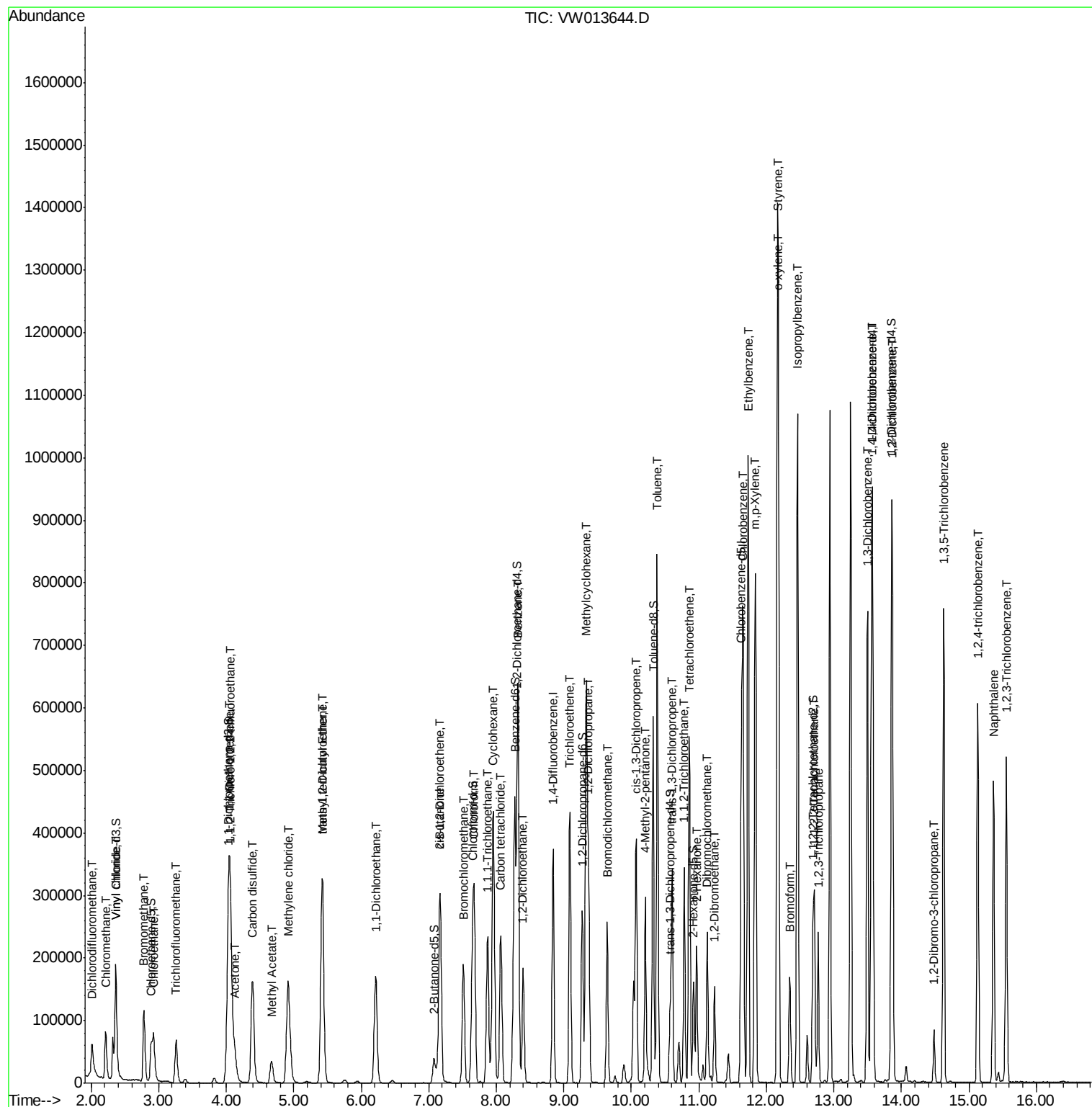
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	72839	25.768	ug/L	94
25) Chloroform	7.68	83	252262	25.464	ug/L	99
27) 1,2-Dichloroethane	8.40	62	163257	25.712	ug/L	97
30) Cyclohexane	7.96	56	247440	26.196	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	195352	25.978	ug/L	99
32) Carbon tetrachloride	8.07	117	188242	25.707	ug/L	99
34) Benzene	8.32	78	589776	25.494	ug/L	100
35) Trichloroethene	9.09	95	153396	25.844	ug/L	98
36) Methylcyclohexane	9.34	83	276301	26.411	ug/L	98
40) 1,2-Dichloropropane	9.37	63	143269	25.329	ug/L	99
41) Bromodichloromethane	9.65	83	179591	25.912	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	232992	26.090	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	194544	50.411	ug/L	99
44) Toluene	10.38	91	640214	25.758	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	185193	25.690	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	110669	25.369	ug/L	97
47) Tetrachloroethene	10.86	164	139329	25.645	ug/L	97
49) 2-Hexanone	10.97	43	137113	50.081	ug/L	98
50) Dibromochloromethane	11.13	129	133755	25.980	ug/L	98
51) 1,2-Dibromoethane	11.23	107	109444	25.799	ug/L	98
52) Chlorobenzene	11.66	112	406828	25.583	ug/L	99
53) Ethylbenzene	11.73	91	711770	25.919	ug/L	99
54) m,p-Xylene	11.83	106	276430	26.049	ug/L	100
55) o-xylene	12.16	106	265639	26.378	ug/L	100
56) Styrene	12.18	104	452824	26.285	ug/L	98
57) Isopropylbenzene	12.46	105	711644	26.345	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	133297	26.070	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	100029	26.235	ug/L	99
62) Bromoform	12.35	173	83419	24.561	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	339600	25.254	ug/L	96
64) 1,4-Dichlorobenzene	13.58	146	332299	24.591	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	307943	25.274	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	20830	24.872	ug/L	92
67) 1,3,5-Trichlorobenzene	14.63	180	259433	25.951	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	218941	25.797	ug/L	99
69) Naphthalene	15.36	128	416846	27.105	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	203464	26.770	ug/L	99

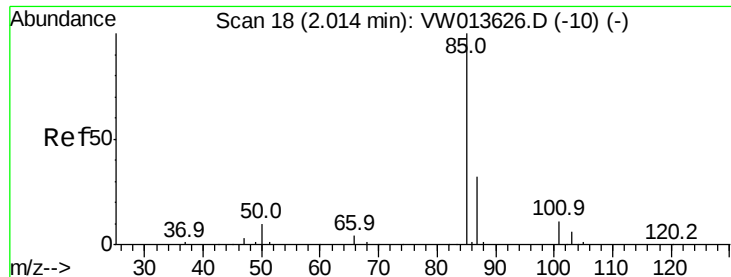
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.111 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

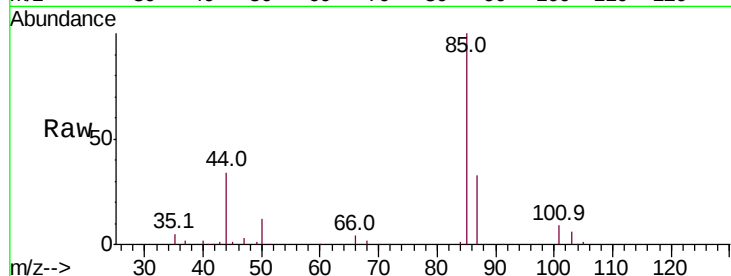
VSTD02525

Tot Ion: 85 Resp: 86208

Ion Ratio Lower Upper

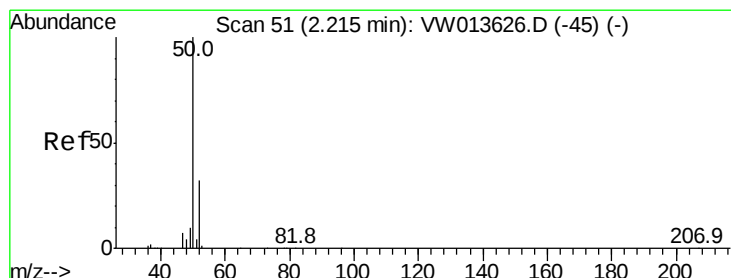
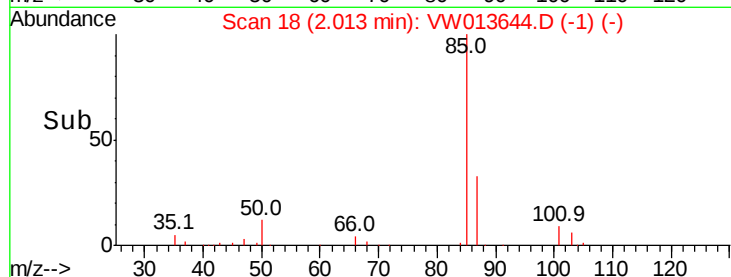
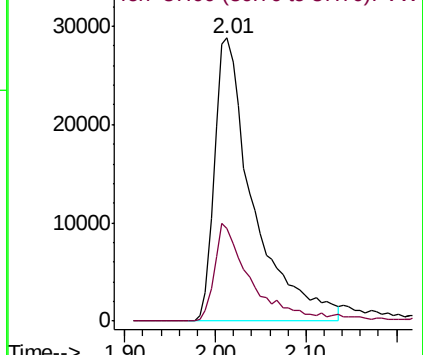
85 100

87 31.3 20.2 37.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 20.816 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013644.D

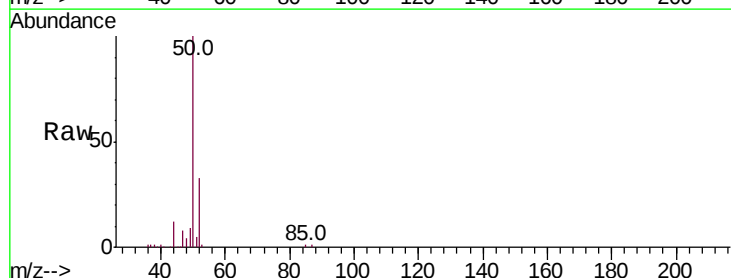
Acq: 21 Oct 2019 19:04

Tgt Ion: 50 Resp: 84054

Ion Ratio Lower Upper

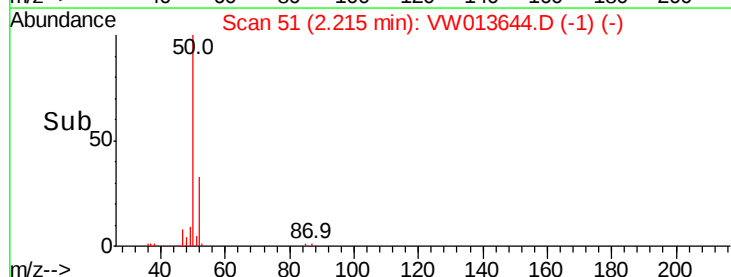
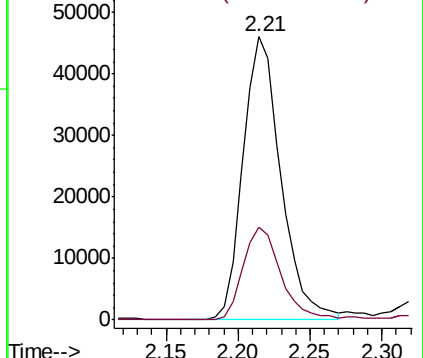
50 100

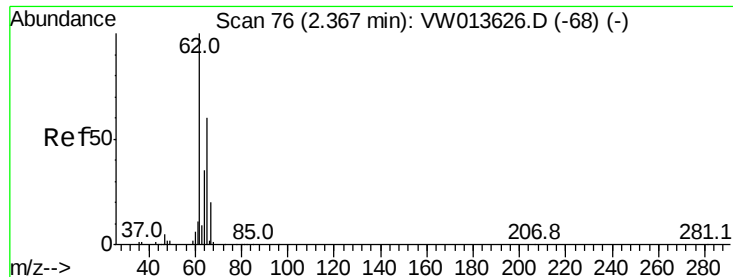
52 32.5 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 26.946 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

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ClientSampleId :

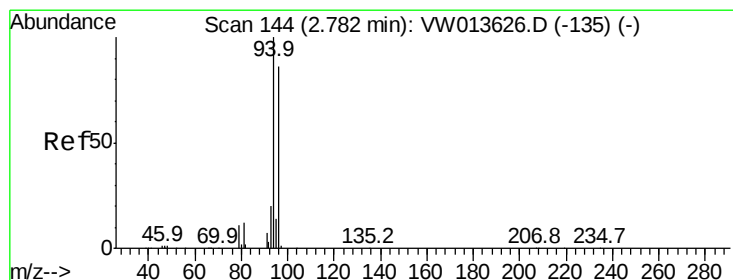
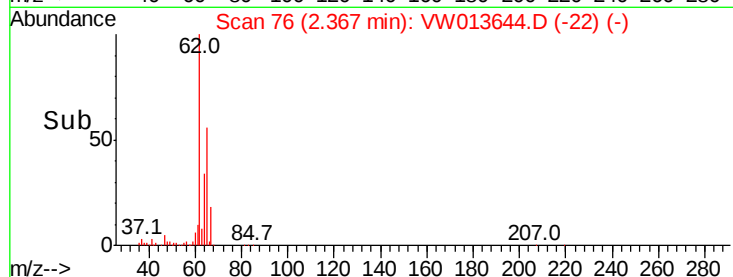
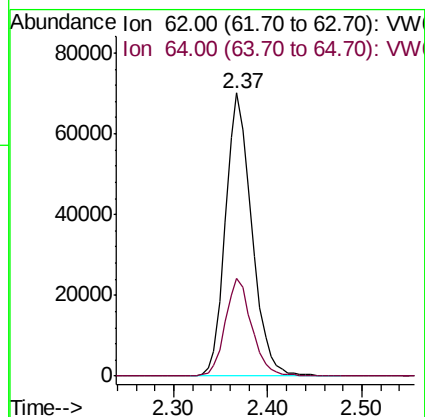
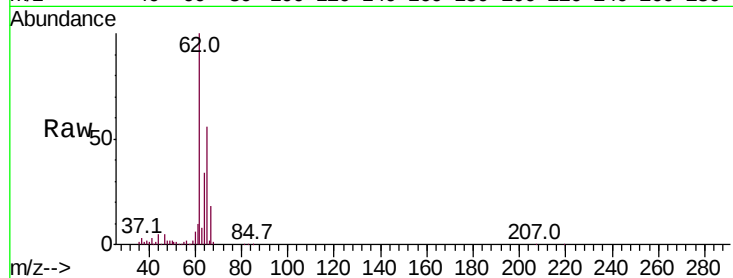
VSTD02525

Tot Ion: 62 Resp: 135971

Ion Ratio Lower Upper

62 100

64 34.5 23.9 44.5



#6

Bromomethane

Concen: 23.580 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW013644.D

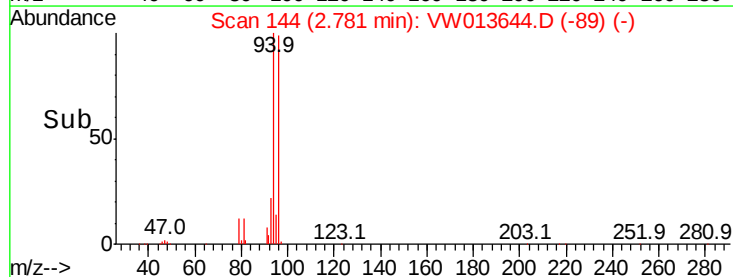
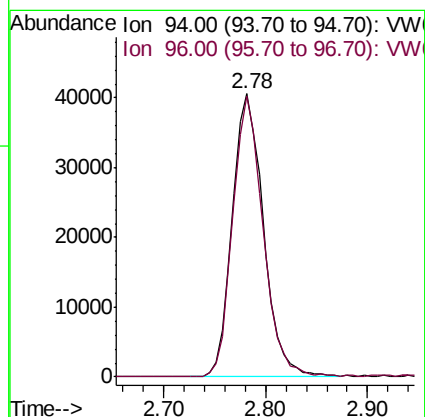
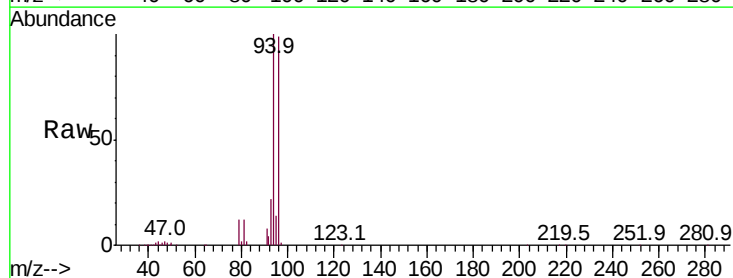
Acq: 21 Oct 2019 19:04

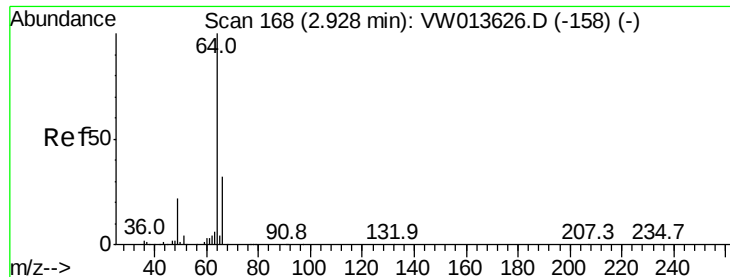
Tgt Ion: 94 Resp: 85978

Ion Ratio Lower Upper

94 100

96 96.6 9.3 176.9





#8

Chloroethane

Concen: 24.364 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

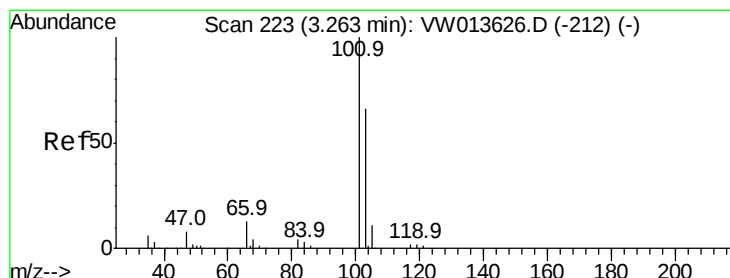
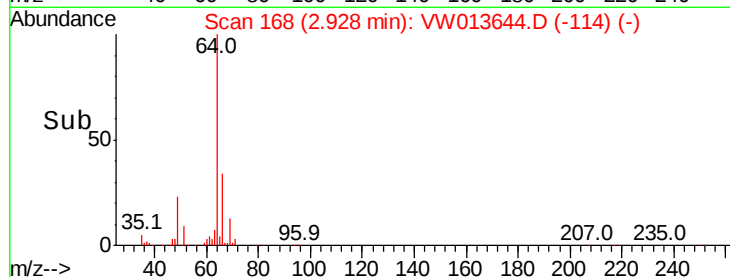
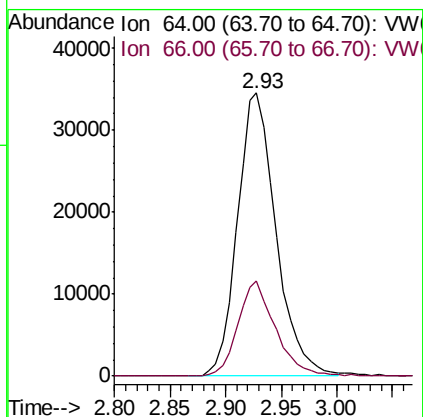
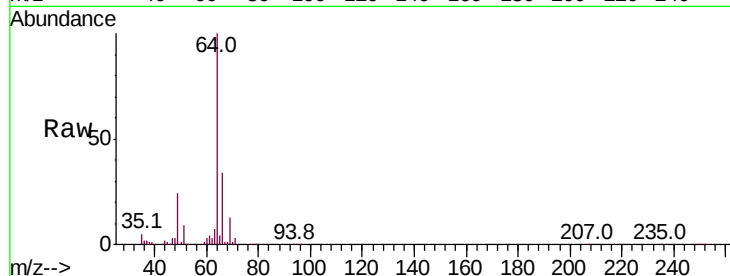
VSTD02525

Tot Ion: 64 Resp: 83084

Ion Ratio Lower Upper

64 100

66 33.6 22.2 41.2



#9

Trichlorofluoromethane

Concen: 22.846 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW013644.D

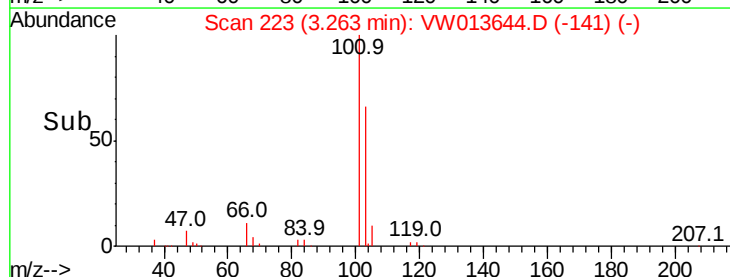
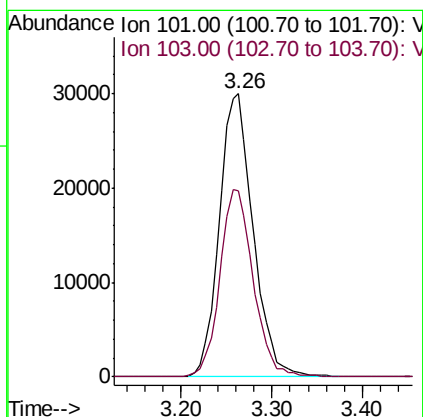
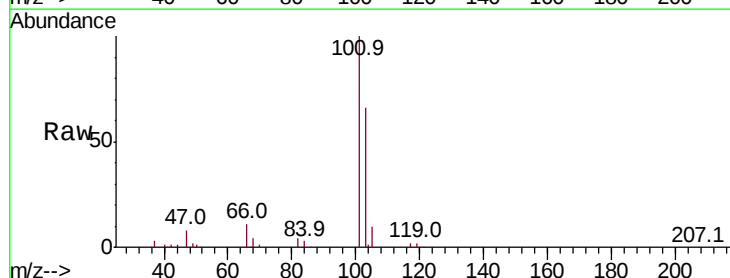
Acq: 21 Oct 2019 19:04

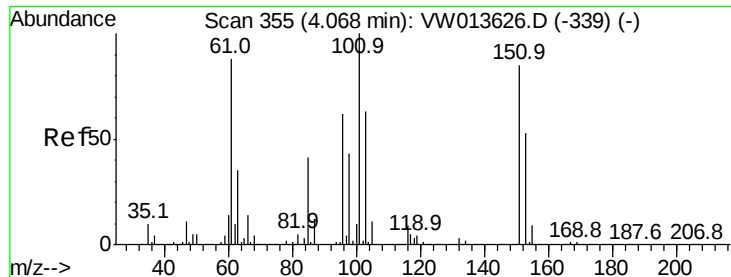
Tgt Ion: 101 Resp: 77701

Ion Ratio Lower Upper

101 100

103 64.8 46.5 86.5





#11

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

Concen: 25.483 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

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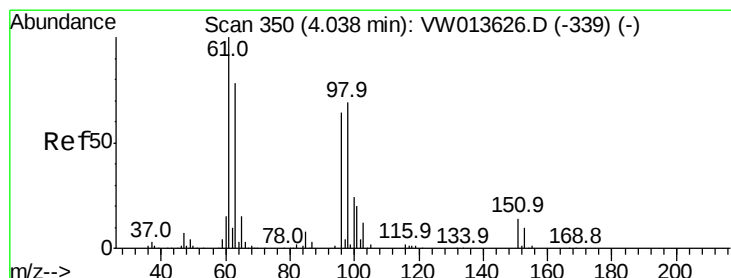
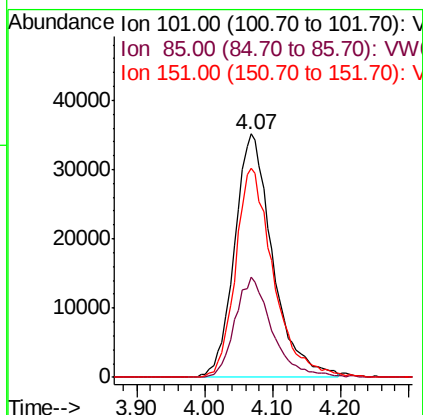
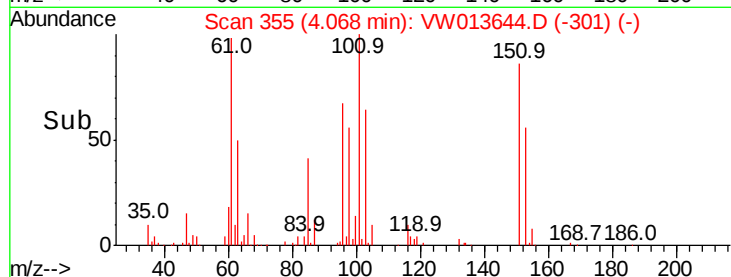
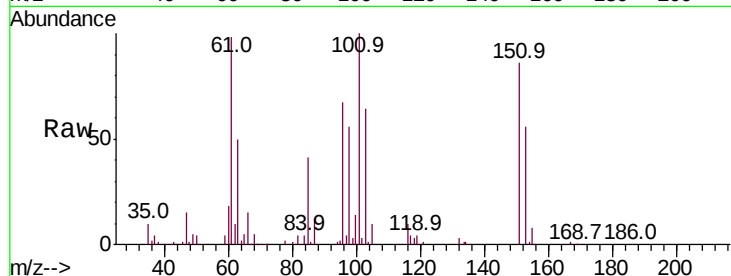
Tot Ion:101 Resp: 136478

Ion Ratio Lower Upper

101 100

85 39.5 32.0 48.0

151 84.2 66.9 100.3



#12

1,1-Dichloroethene

Concen: 25.931 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

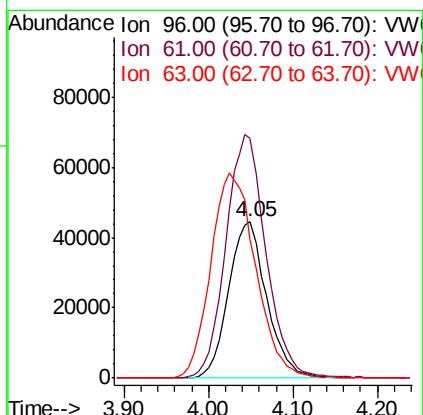
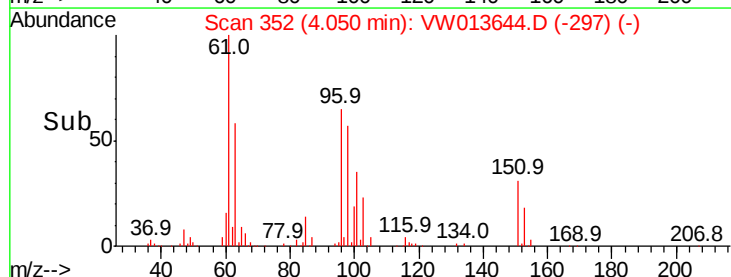
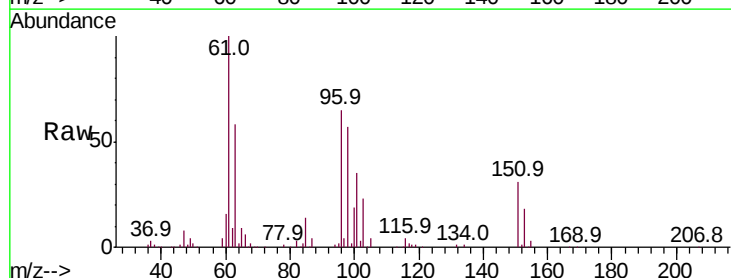
Tgt Ion: 96 Resp: 136677

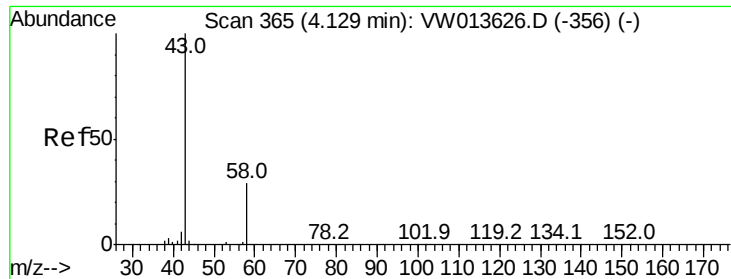
Ion Ratio Lower Upper

96 100

61 153.5 112.7 209.3

63 88.9 72.8 135.2





#13

Acetone

Concen: 34.654 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW013644.D

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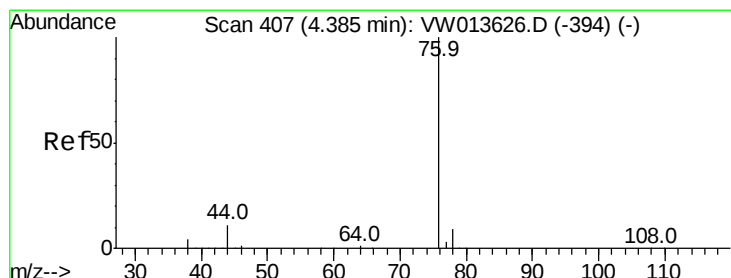
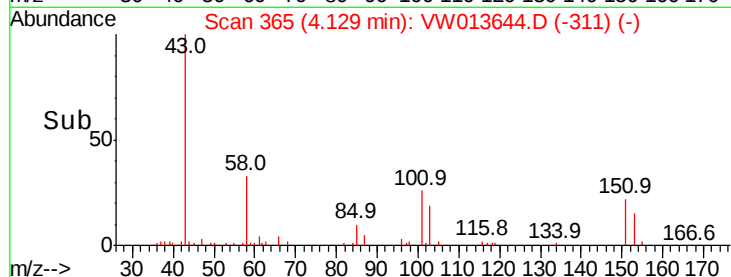
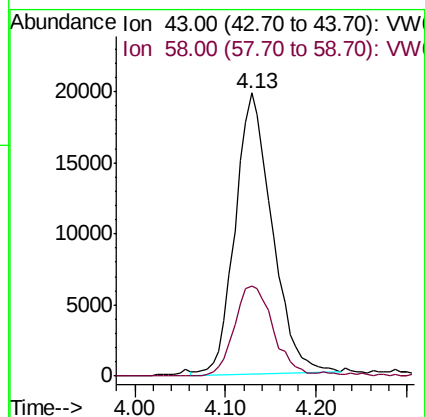
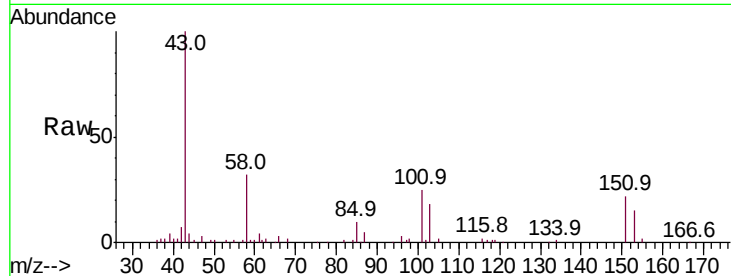
VSTD02525

Tot Ion: 43 Resp: 55974

Ion Ratio Lower Upper

43 100

58 33.7 0.0 70.4



#14

Carbon disulfide

Concen: 26.165 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013644.D

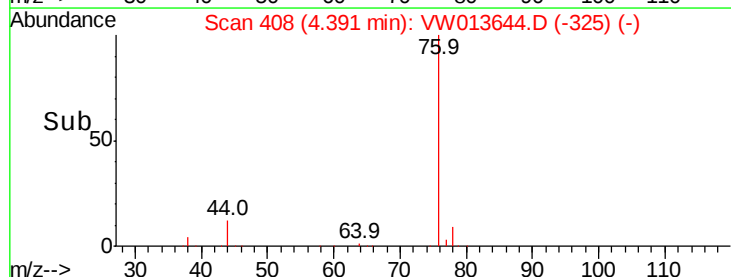
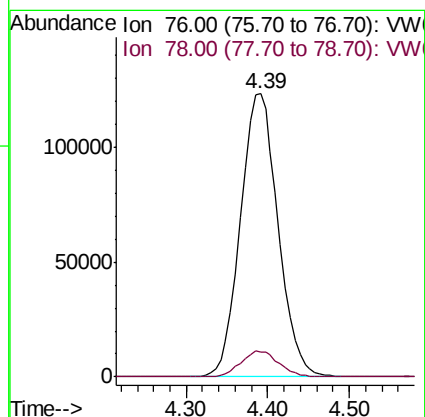
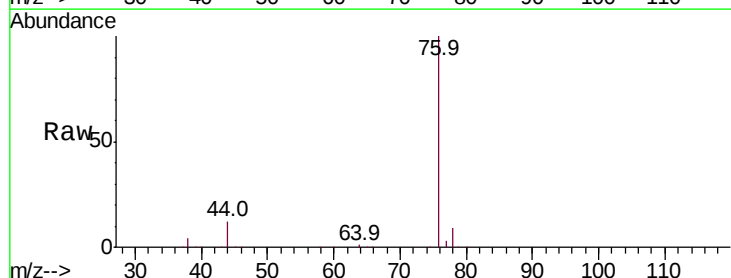
Acq: 21 Oct 2019 19:04

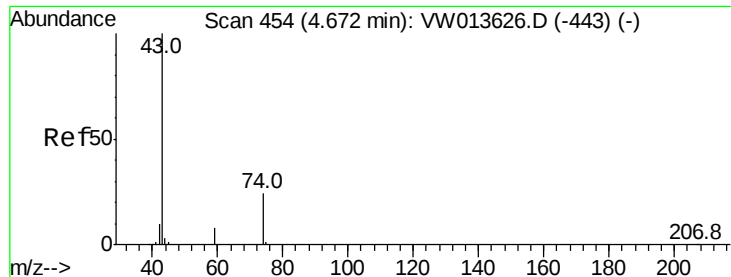
Tgt Ion: 76 Resp: 394599

Ion Ratio Lower Upper

76 100

78 8.6 7.1 10.7





#15

Methyl Acetate

Concen: 26.291 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

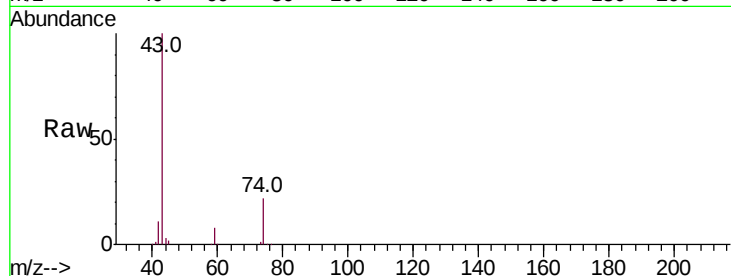
VSTD02525

Tot Ion: 43 Resp: 69388

Ion Ratio Lower Upper

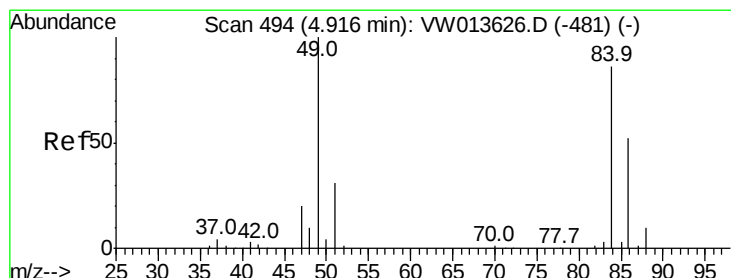
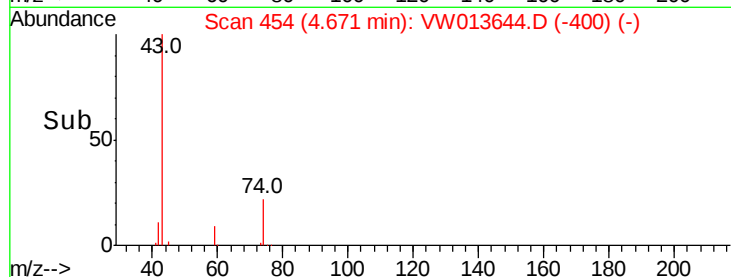
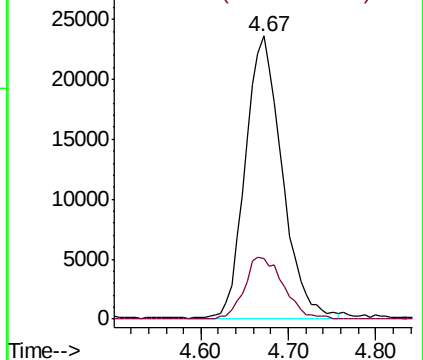
43 100

74 23.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 23.917 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

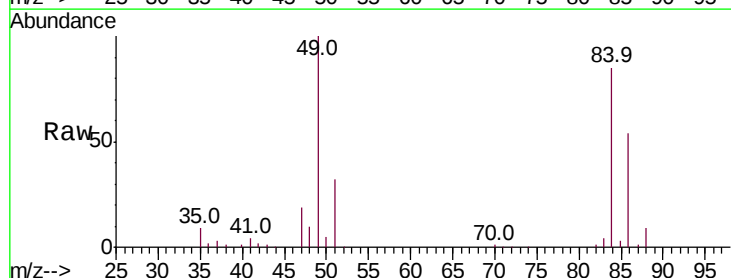
Tgt Ion: 84 Resp: 151885

Ion Ratio Lower Upper

84 100

49 117.5 80.2 148.9

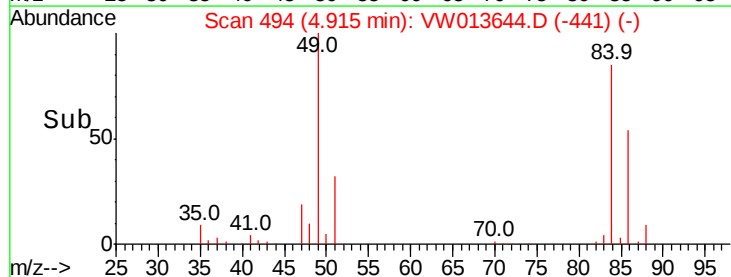
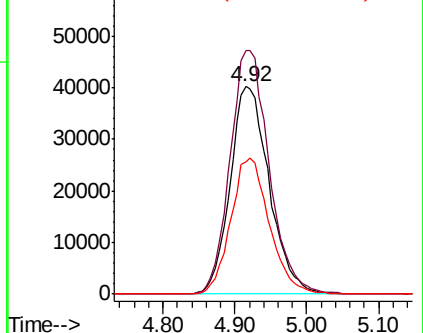
86 63.7 42.7 79.3

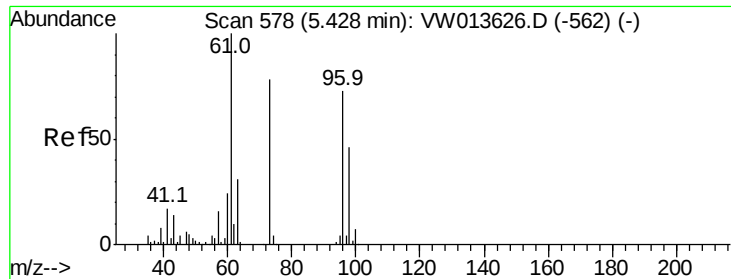


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

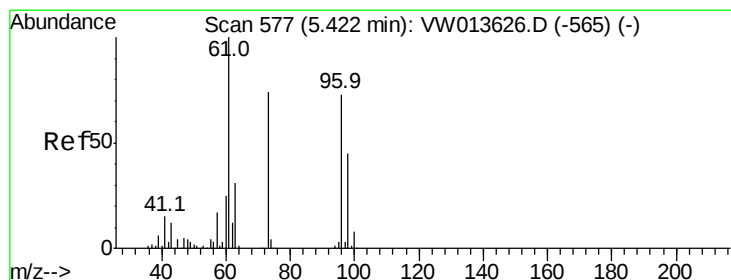
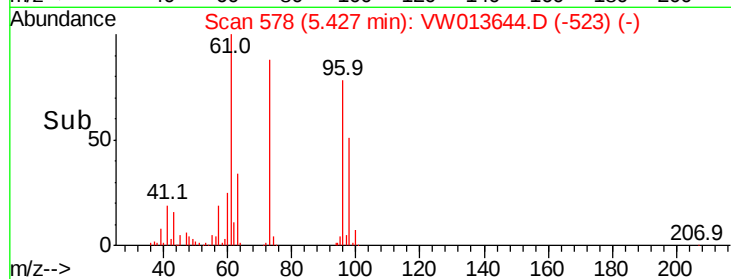
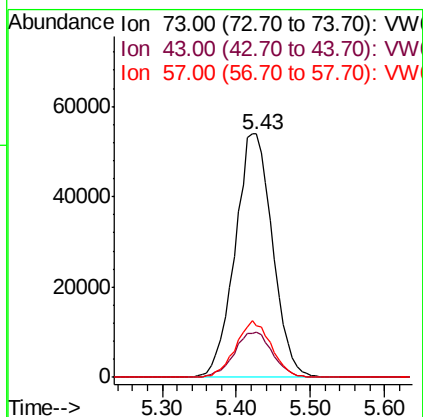
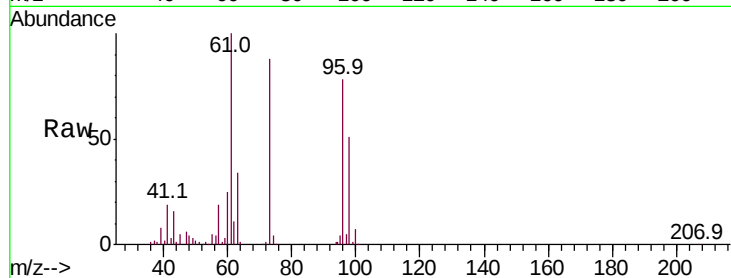




#17
Methvl tert-butvl Ether
Concen: 26.034 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

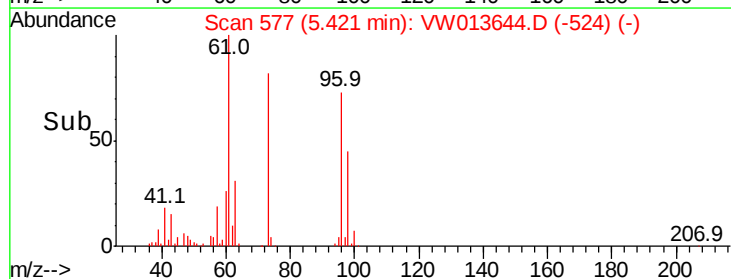
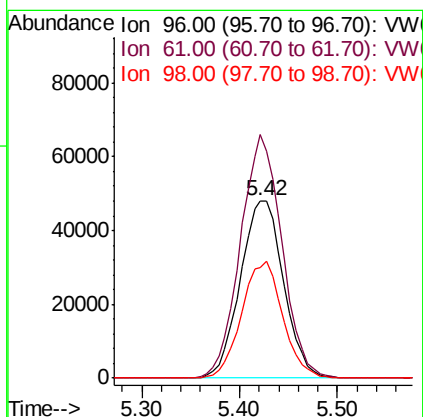
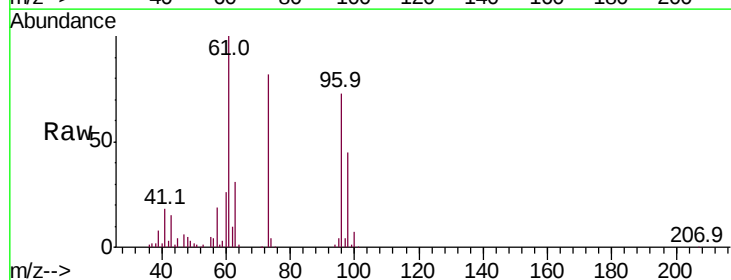
Instrument :
MSVOA_W
ClientSampleId :
VSTD02525

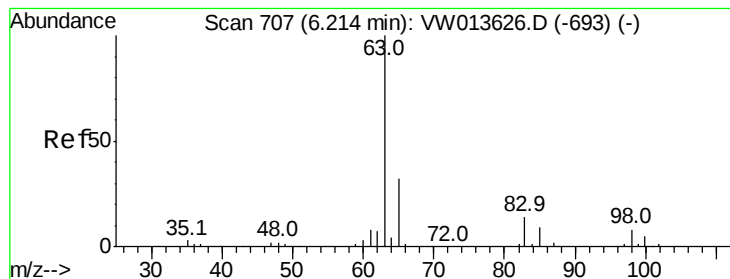
Tot Ion: 73 Resp: 189859
Ion Ratio Lower Upper
73 100
43 19.0 15.4 23.2
57 22.2 17.7 26.5



#18
trans-1,2-Dichloroethene
Concen: 25.404 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 96 Resp: 148014
Ion Ratio Lower Upper
96 100
61 137.3 88.4 164.2
98 62.2 43.0 79.8





#19

1,1-Dichloroethane

Concen: 25.245 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

VSTD02525

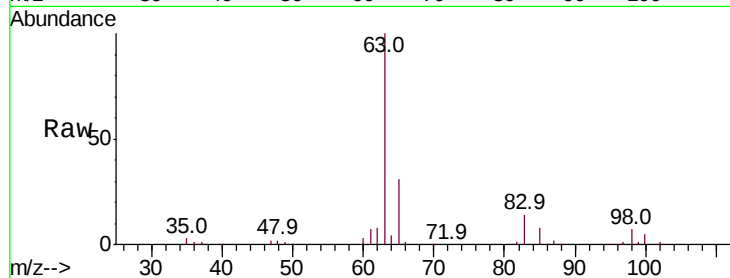
Tot Ion: 63 Resp: 248970

Ion Ratio Lower Upper

63 100

65 30.8 20.9 38.7

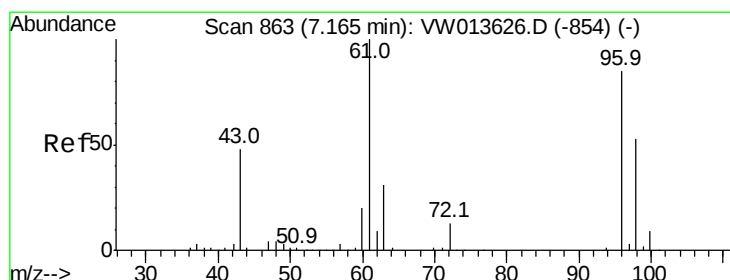
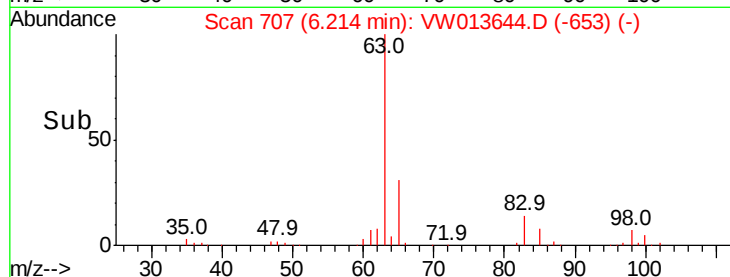
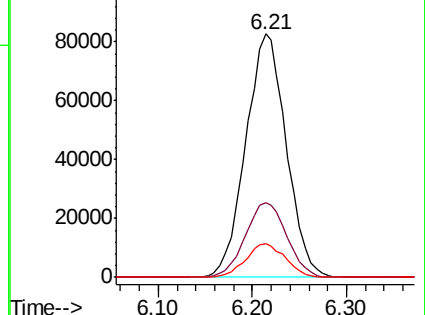
83 13.8 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 45.551 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW013644.D

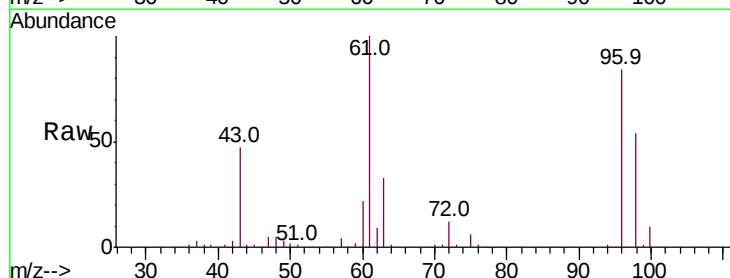
Acq: 21 Oct 2019 19:04

Tgt Ion: 43 Resp: 93417

Ion Ratio Lower Upper

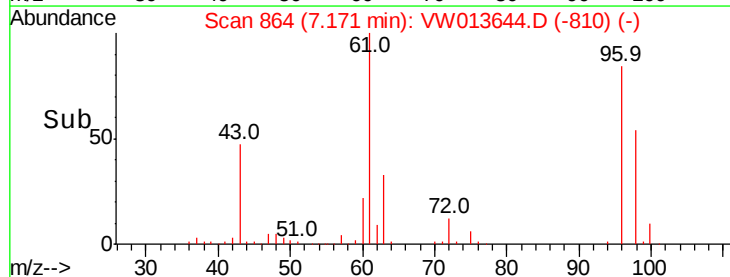
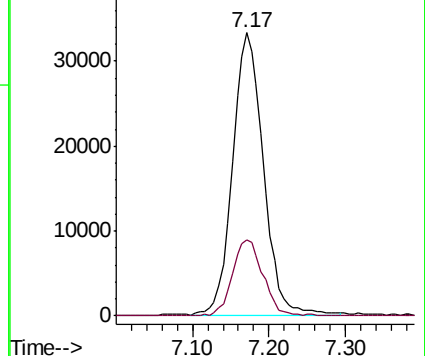
43 100

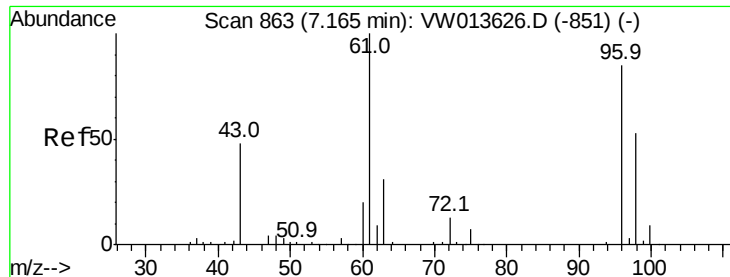
72 26.4 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



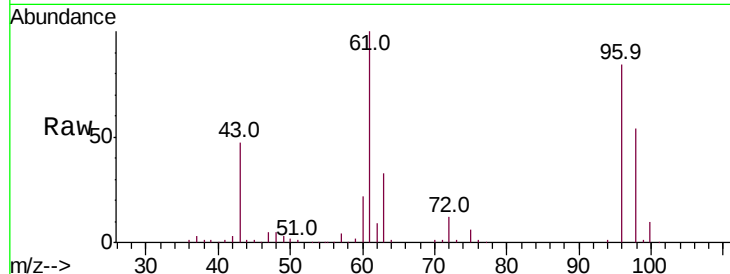


#22

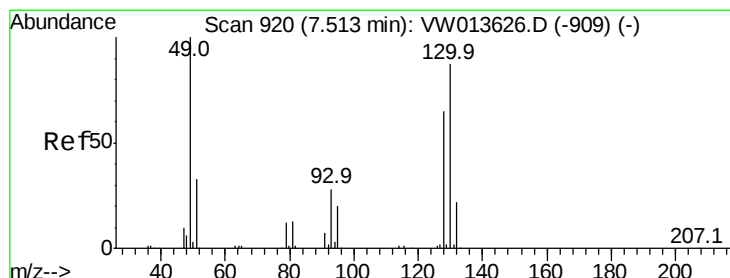
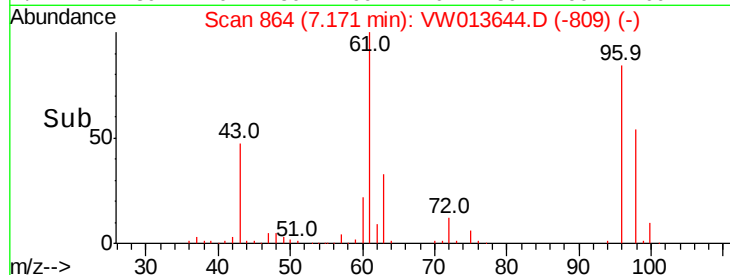
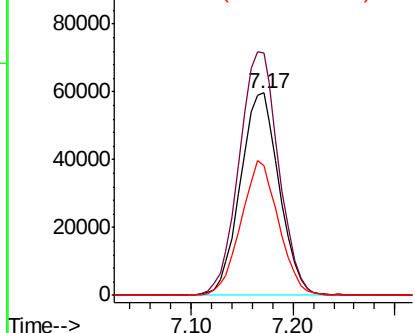
cis-1,2-Dichloroethene
Concen: 25.282 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Instrument :
MSVOA_W
ClientSampleId :
VSTD02525

Tot Ion: 96 Resp: 158111
Ion Ratio Lower Upper
96 100
61 119.7 86.2 160.0
98 64.2 43.0 79.8



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW

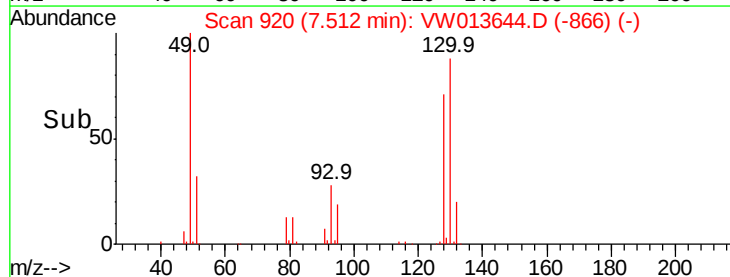
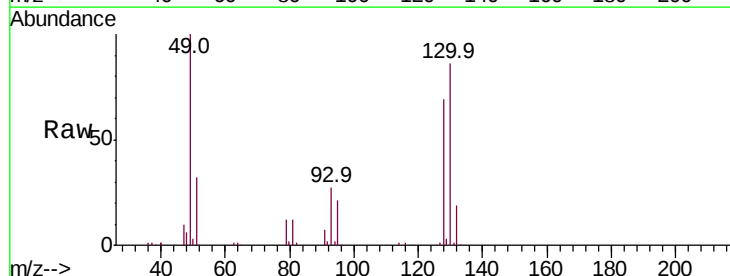
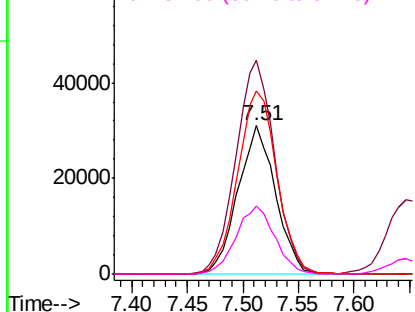


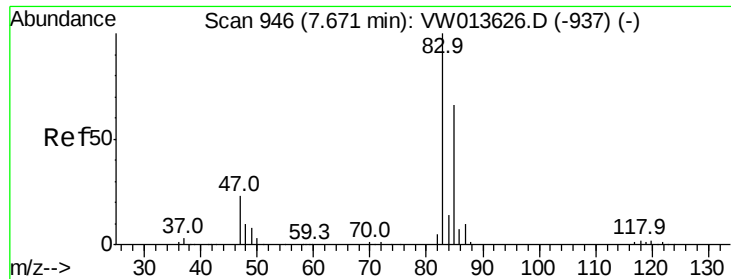
#23

Bromochloromethane
Concen: 25.768 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 128 Resp: 72839
Ion Ratio Lower Upper
128 100
49 144.2 106.3 197.3
130 123.8 93.2 173.2
51 46.0 37.4 56.0

Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW

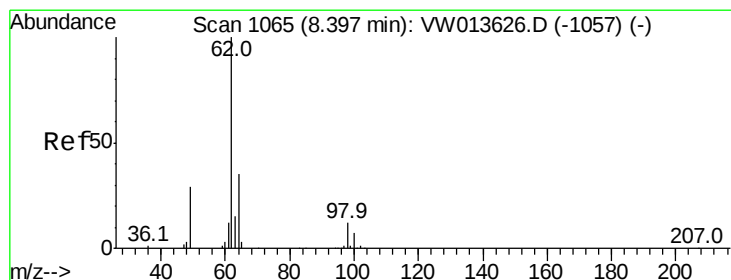
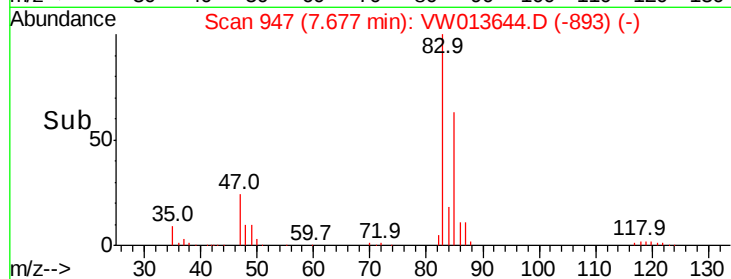
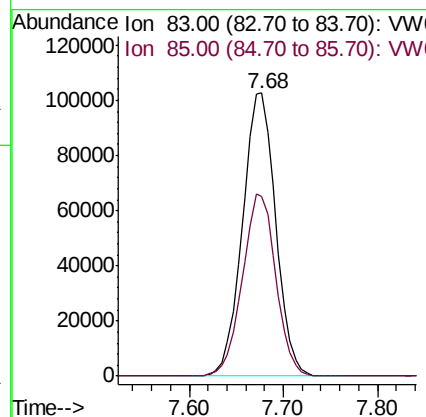
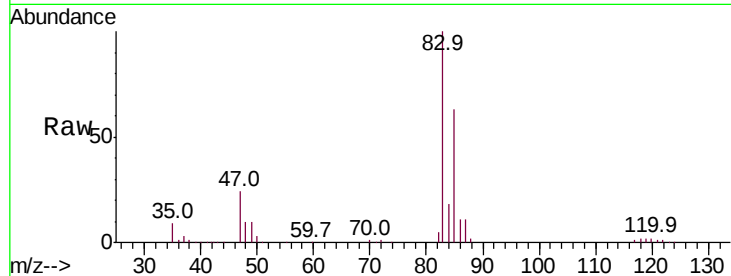




#25
Chloroform
Concen: 25.464 ug/L
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

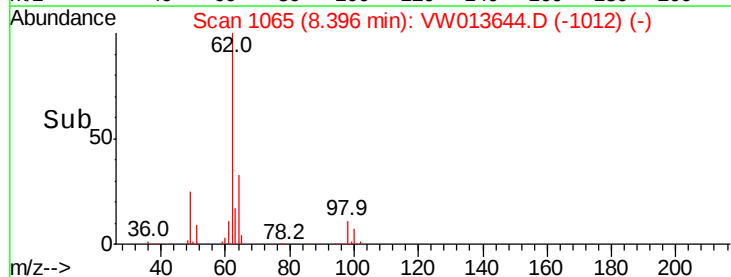
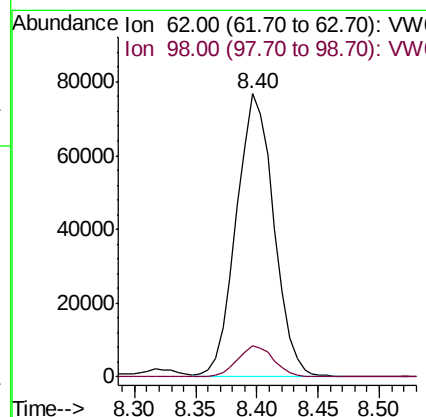
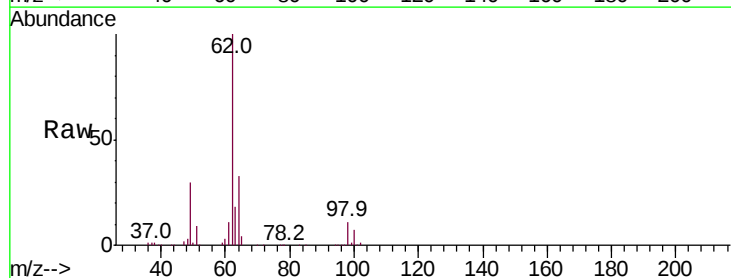
Instrument :
MSVOA_W
ClientSampleId :
VSTD02525

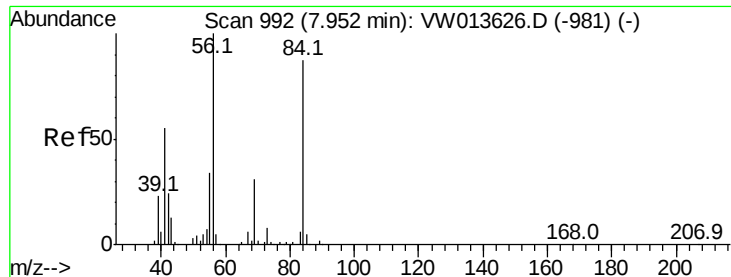
Tot Ion: 83 Resp: 252262
Ion Ratio Lower Upper
83 100
85 65.1 46.1 85.7



#27
1,2-Dichloroethane
Concen: 25.712 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 62 Resp: 163257
Ion Ratio Lower Upper
62 100
98 10.9 9.6 14.4

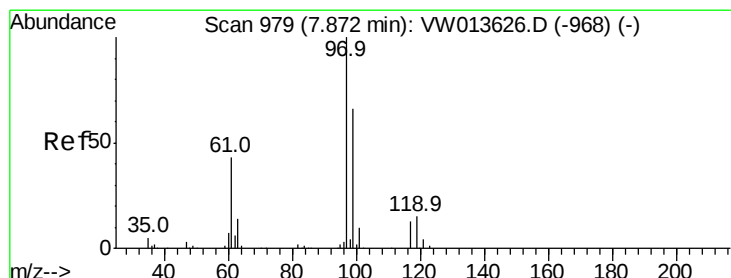
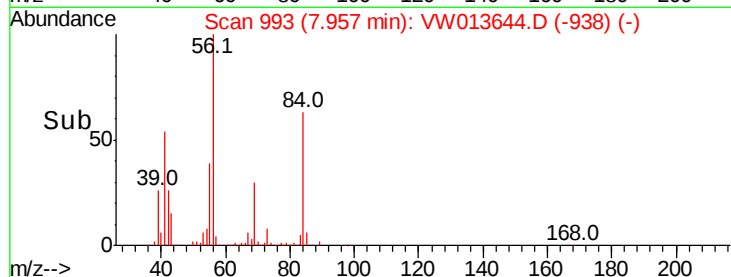
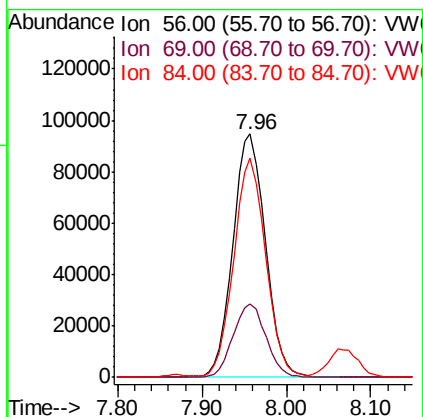
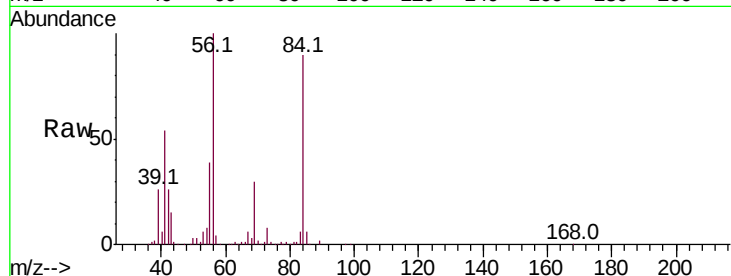




#30
Cyclohexane
Concen: 26.196 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

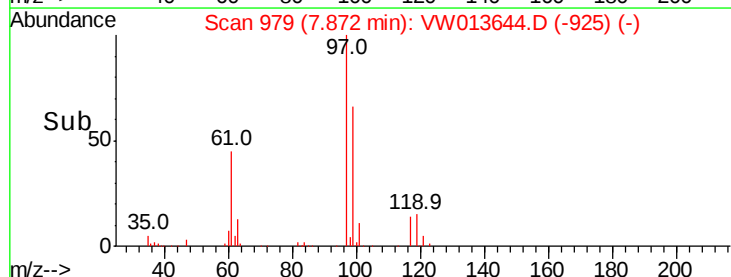
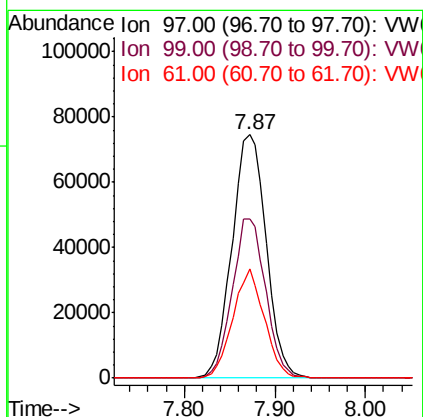
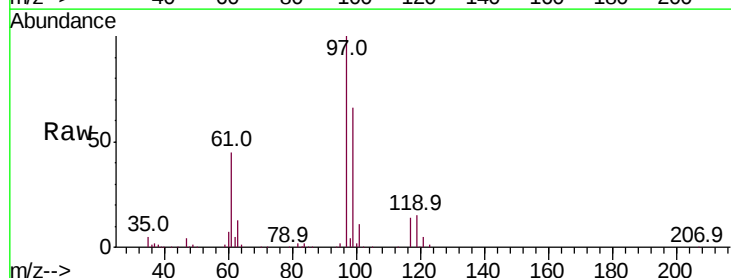
Instrument :
MSVOA_W
ClientSampleId :
VSTD02525

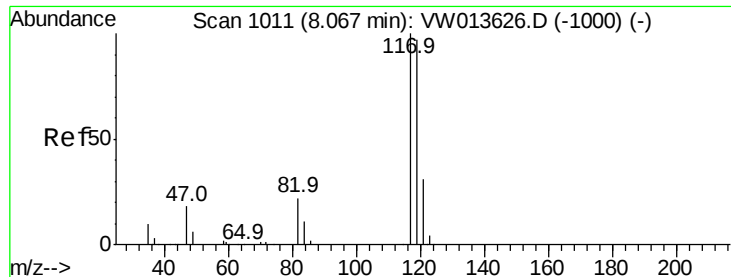
Tot Ion: 56 Resp: 247440
Ion Ratio Lower Upper
56 100
69 30.3 24.6 37.0
84 88.5 71.1 106.7



#31
1,1,1-Trichloroethane
Concen: 25.978 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion: 97 Resp: 195352
Ion Ratio Lower Upper
97 100
99 63.9 51.7 77.5
61 41.5 33.8 50.8





#32

Carbon tetrachloride

Concen: 25.707 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

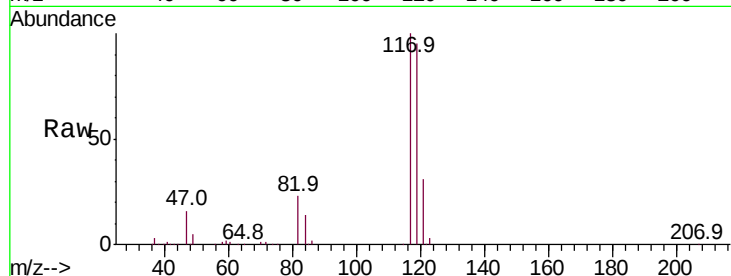
VSTD02525

Tot Ion:117 Resp: 188242

Ion Ratio Lower Upper

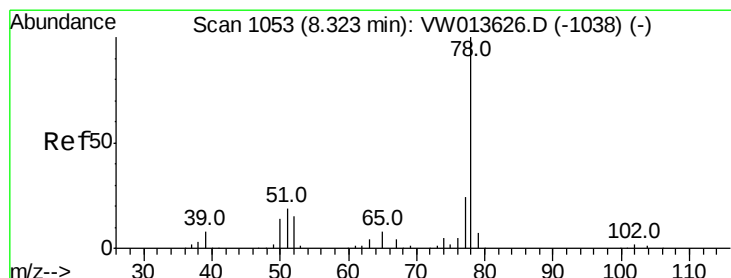
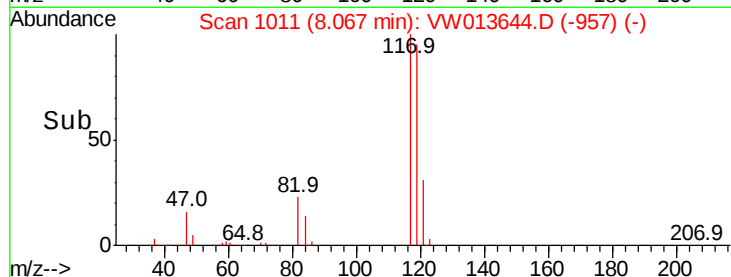
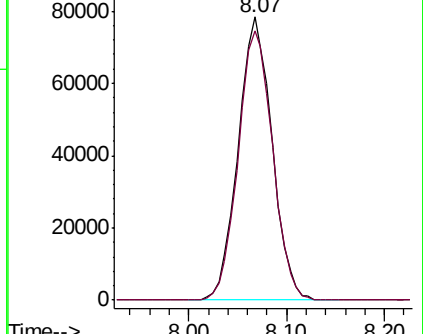
117 100

119 96.5 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.494 ug/L

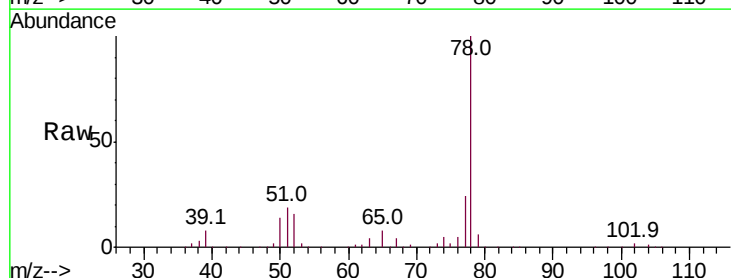
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

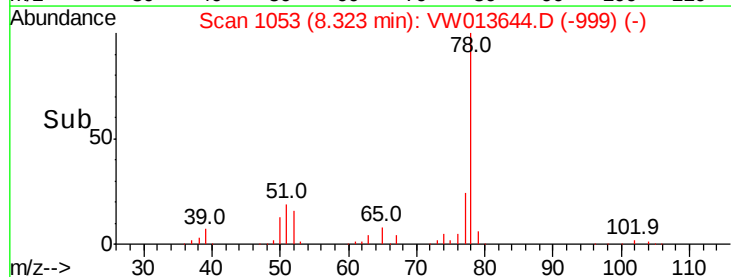
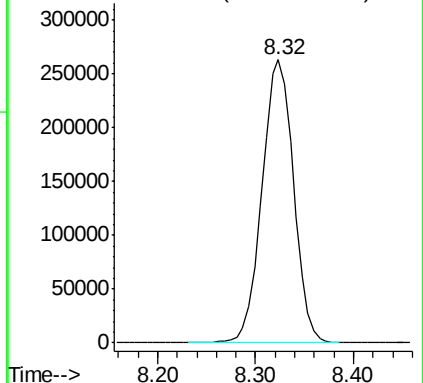
Lab File: VW013644.D

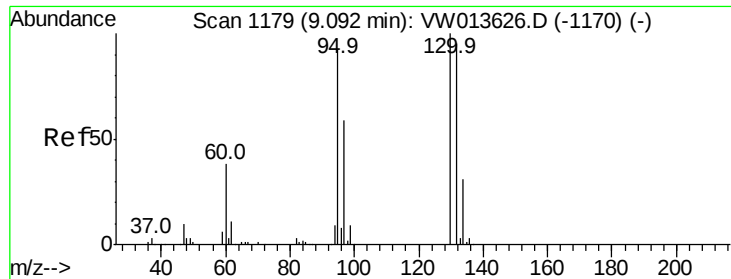
Acq: 21 Oct 2019 19:04

Tgt Ion: 78 Resp: 589776



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 25.844 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

VSTD02525

Tot Ion: 95 Resp: 153396

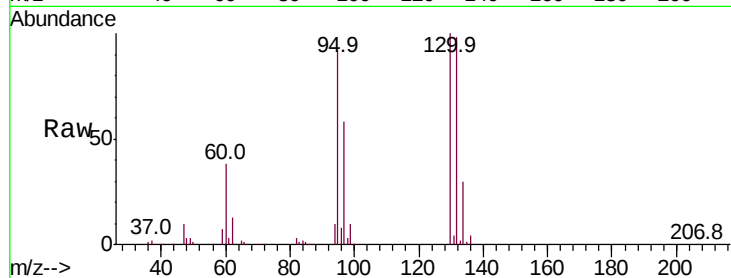
Ion Ratio Lower Upper

95 100

97 63.3 45.8 85.2

132 104.8 74.3 138.1

130 108.3 76.6 142.3

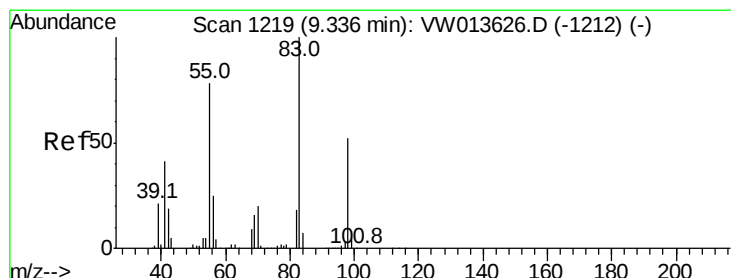
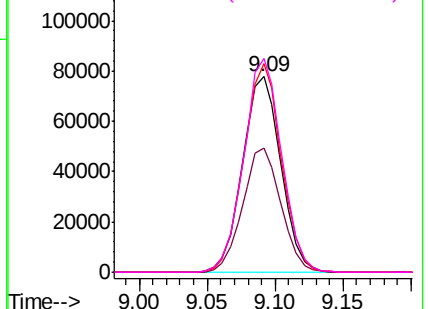
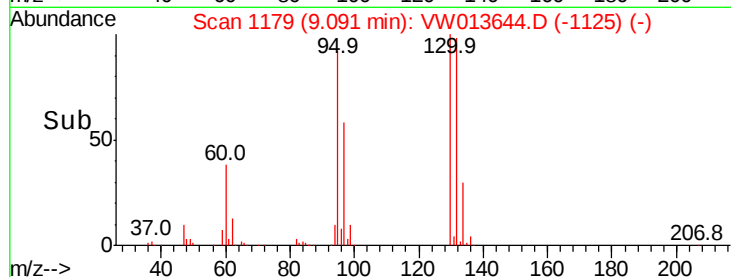


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 26.411 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

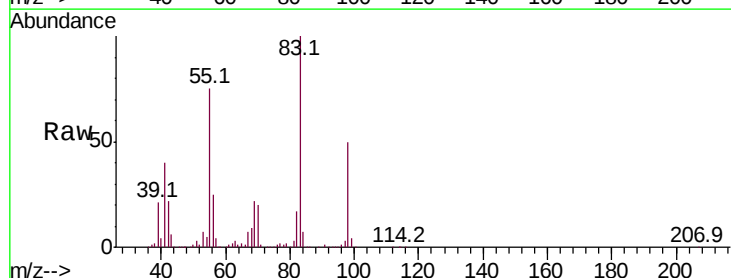
Tgt Ion: 83 Resp: 276301

Ion Ratio Lower Upper

83 100

55 73.4 60.2 90.4

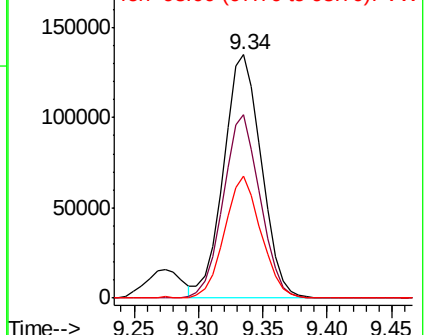
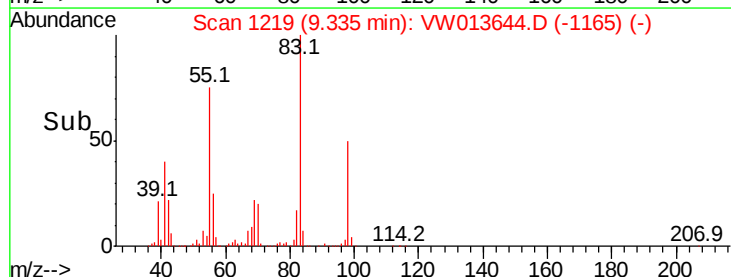
98 48.2 39.1 58.7

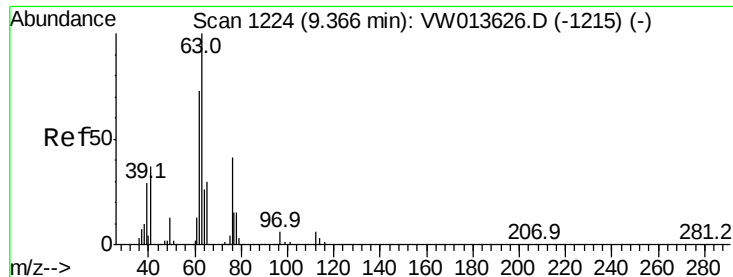


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 25.329 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

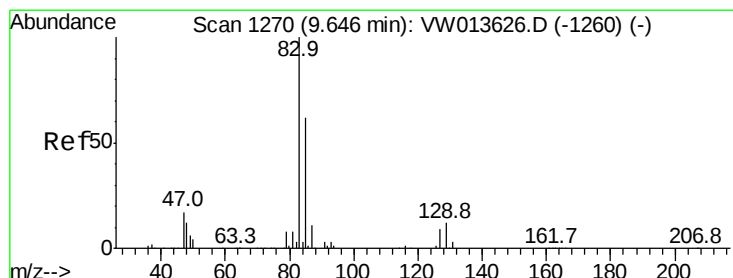
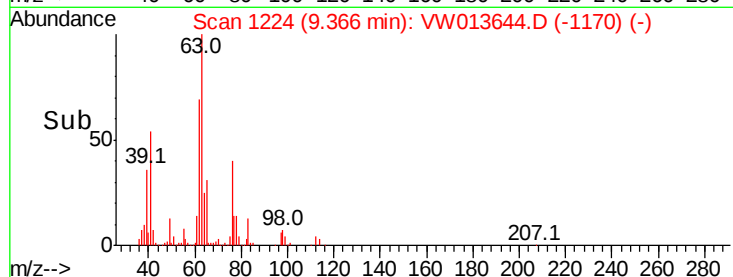
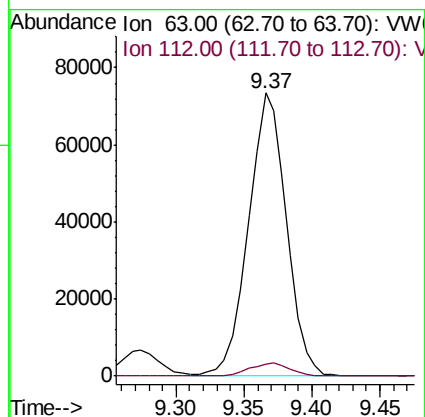
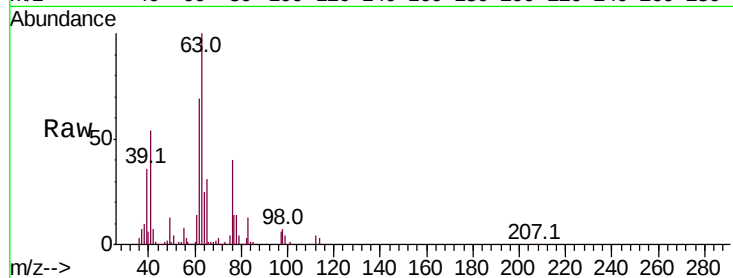
VSTD02525

Tot Ion: 63 Resp: 143269

Ion Ratio Lower Upper

63 100

112 5.1 3.9 5.9



#41

Bromodichloromethane

Concen: 25.912 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

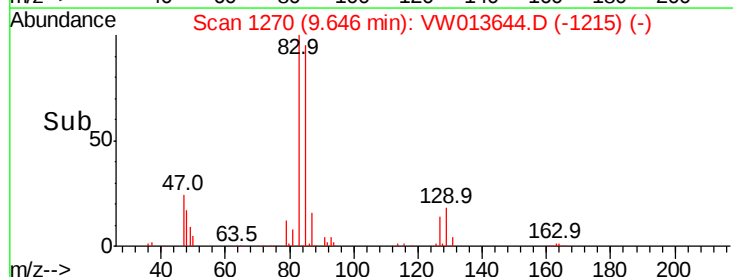
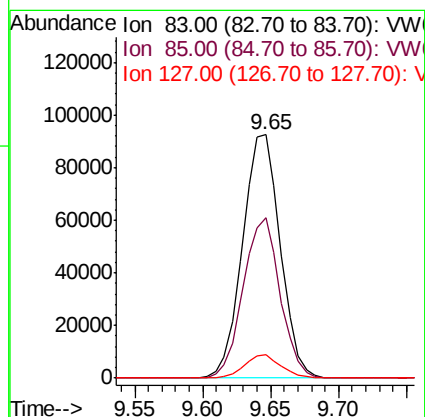
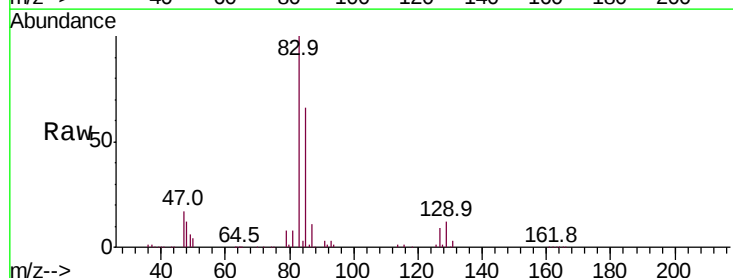
Tgt Ion: 83 Resp: 179591

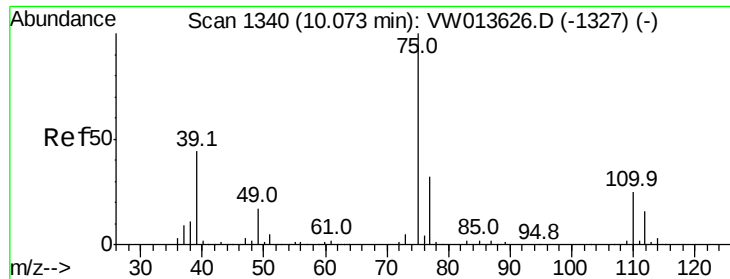
Ion Ratio Lower Upper

83 100

85 65.7 45.8 85.0

127 9.5 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 26.090 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

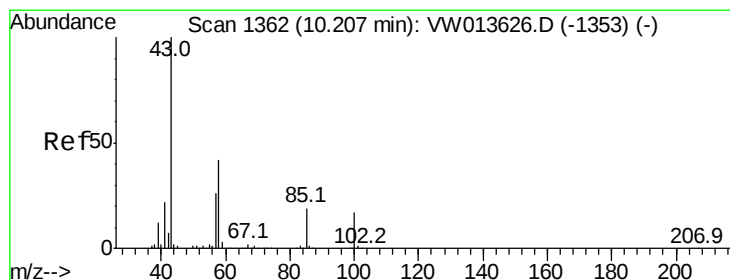
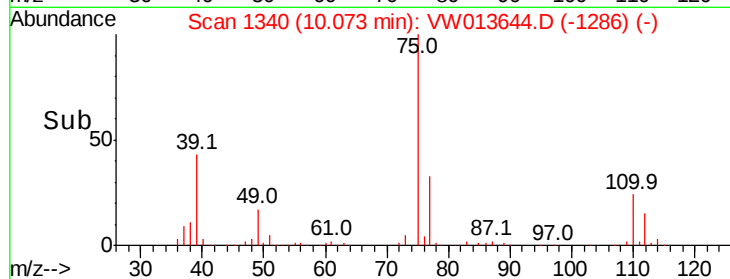
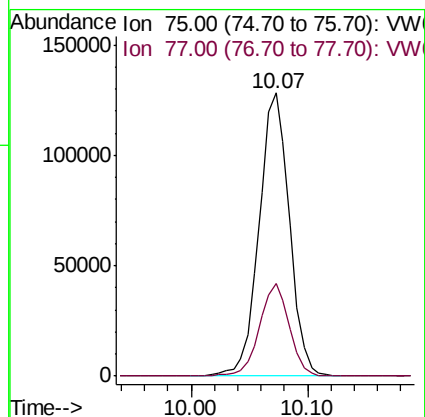
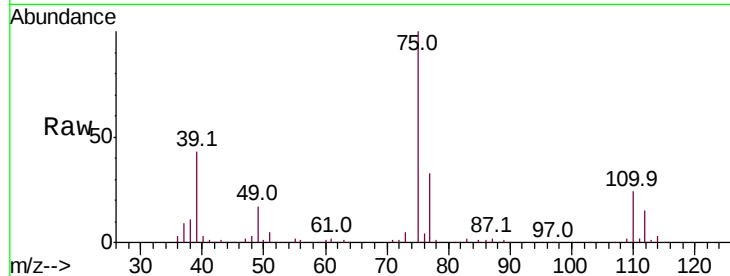
VSTD02525

Tot Ion: 75 Resp: 232992

Ion Ratio Lower Upper

75 100

77 32.7 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 50.411 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

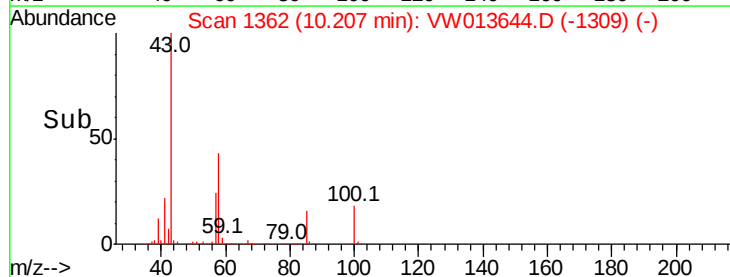
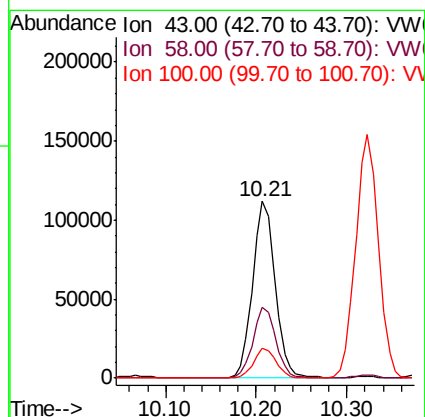
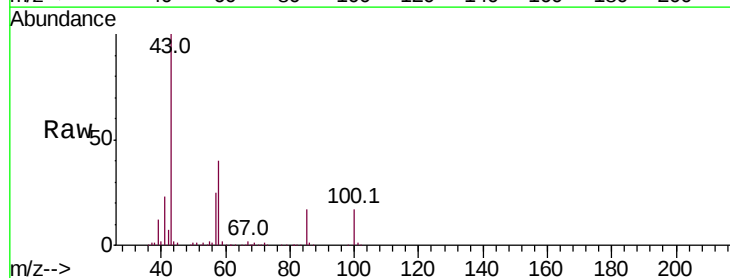
Tgt Ion: 43 Resp: 194544

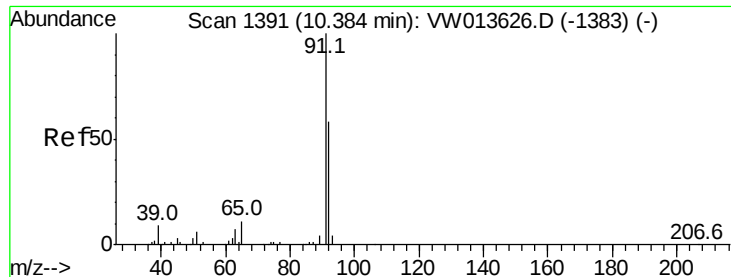
Ion Ratio Lower Upper

43 100

58 40.0 32.8 49.2

100 16.8 13.7 20.5





#44

Toluene

Concen: 25.758 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

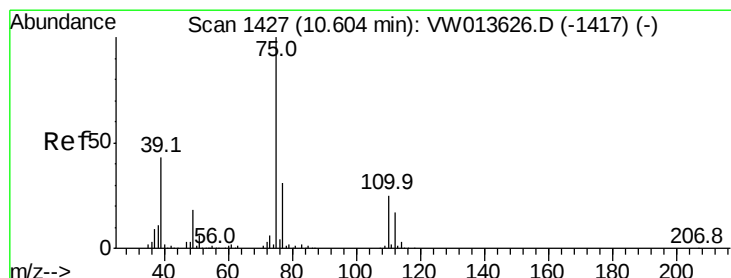
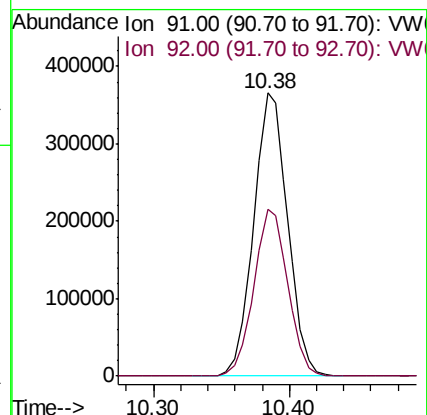
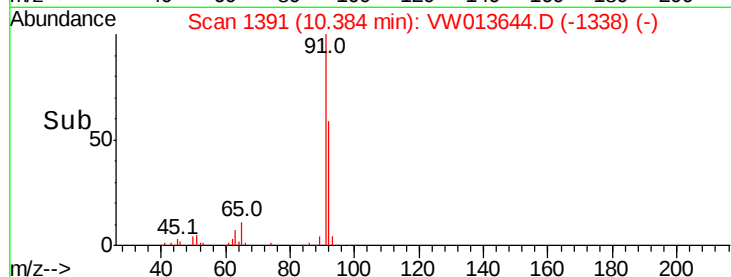
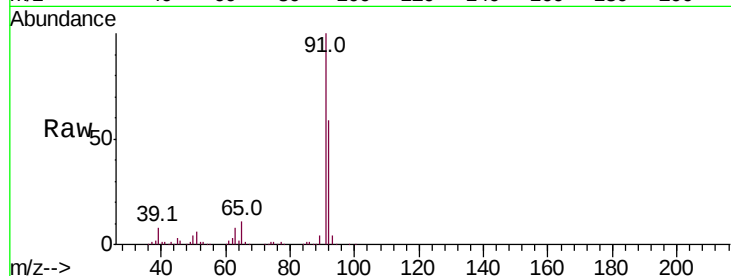
VSTD02525

Tot Ion: 91 Resp: 640214

Ion Ratio Lower Upper

91 100

92 58.9 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 25.690 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013644.D

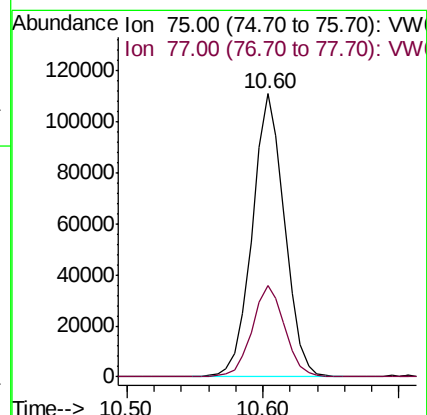
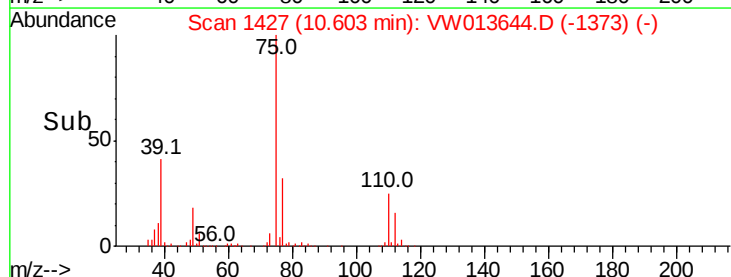
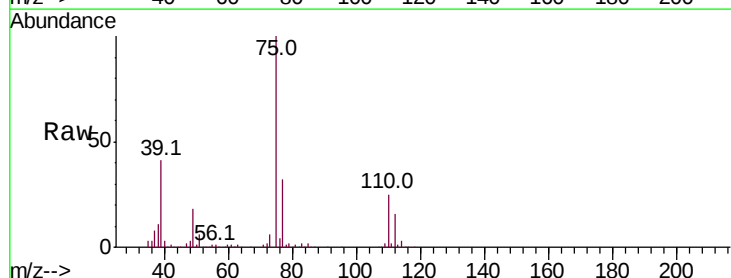
Acq: 21 Oct 2019 19:04

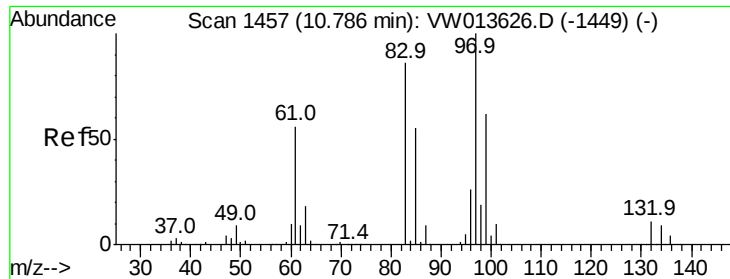
Tgt Ion: 75 Resp: 185193

Ion Ratio Lower Upper

75 100

77 32.3 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 25.369 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

VSTD02525

Tot Ion: 97 Resp: 110669

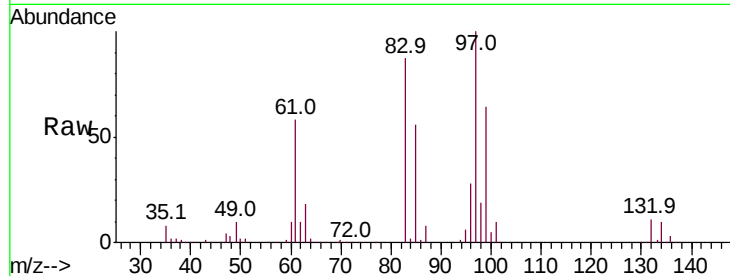
Ion Ratio Lower Upper

97 100

83 87.0 57.7 107.3

85 56.4 38.6 71.6

99 64.0 44.7 82.9

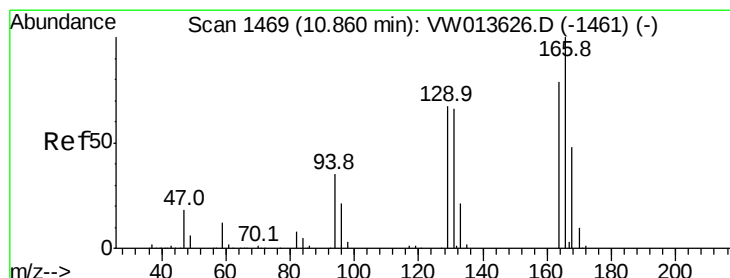
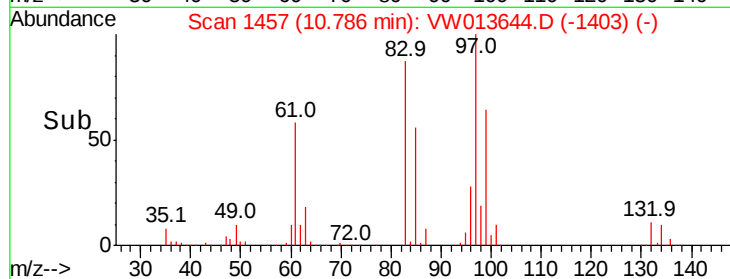
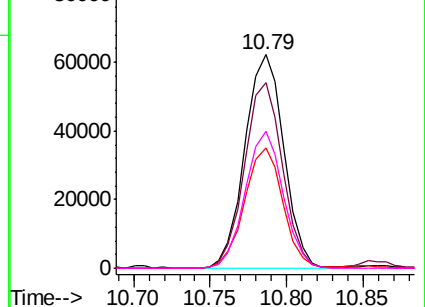


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 25.645 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Tgt Ion: 164 Resp: 139329

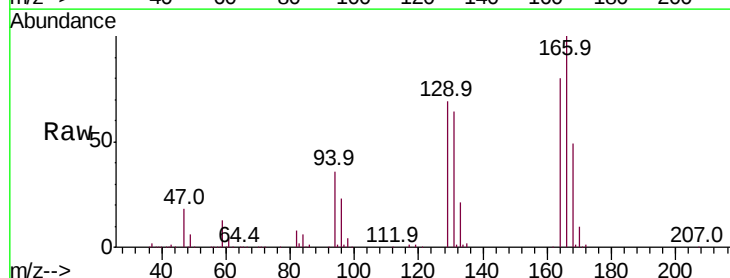
Ion Ratio Lower Upper

164 100

129 86.5 61.8 114.8

131 80.3 59.2 110.0

166 125.4 89.2 165.8

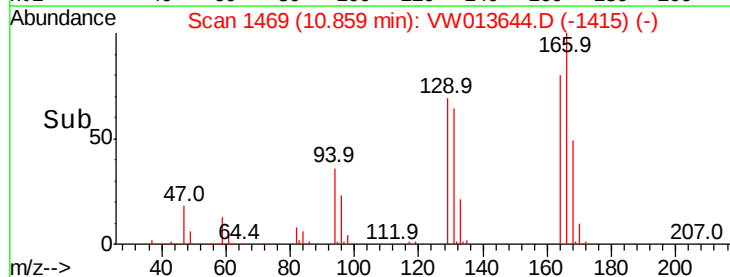
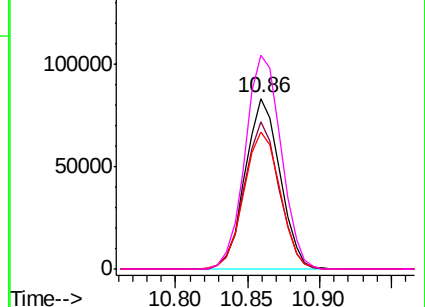


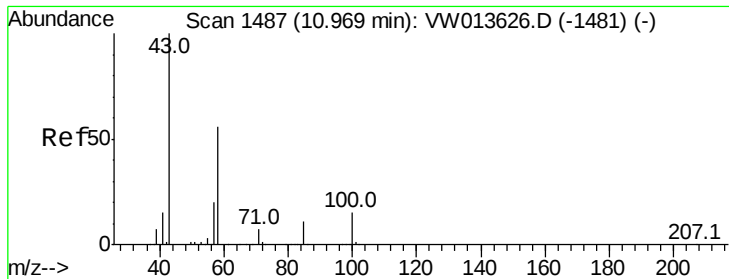
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

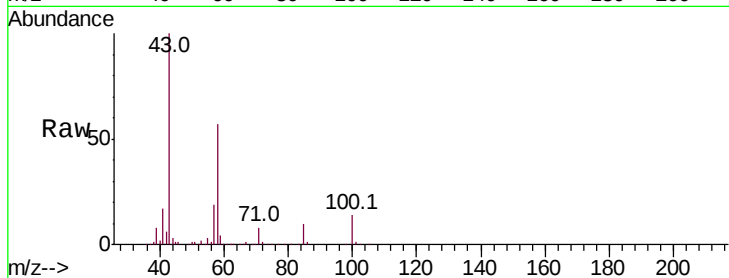




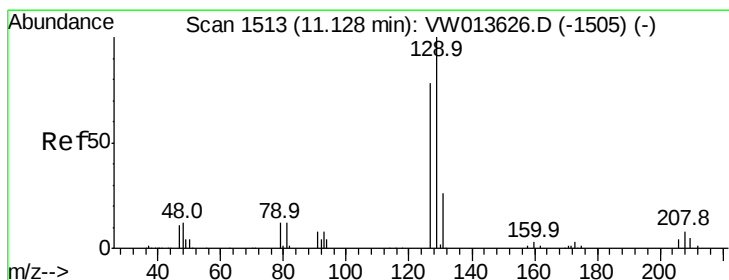
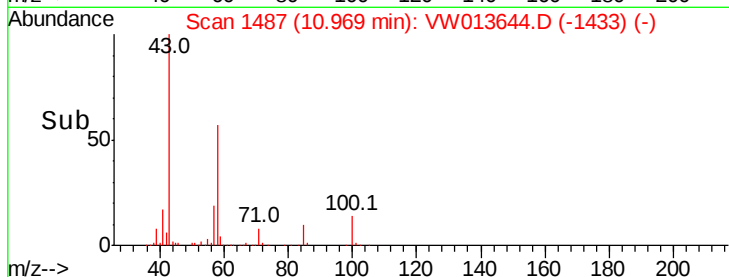
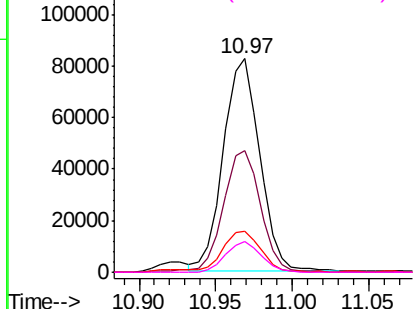
#49
2-Hexanone
Concen: 50.081 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Instrument :
MSVOA_W
ClientSampleId :
VSTD02525

Tot Ion:	43	Resp:	137113
Ion	Ratio	Lower	Upper
43	100		
58	58.6	45.8	68.6
57	19.9	15.4	23.2
100	14.2	10.8	16.2

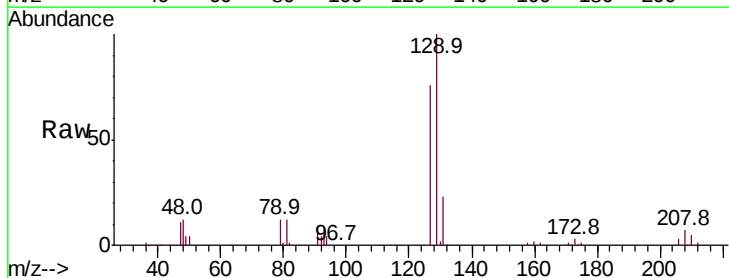


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

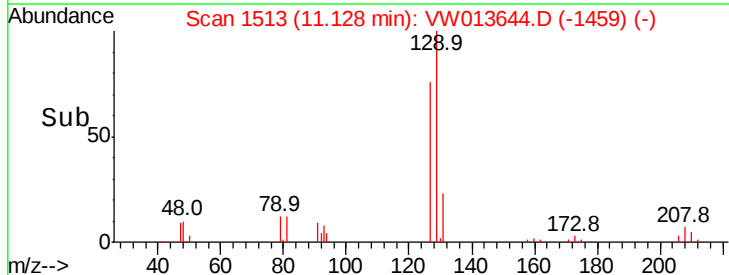
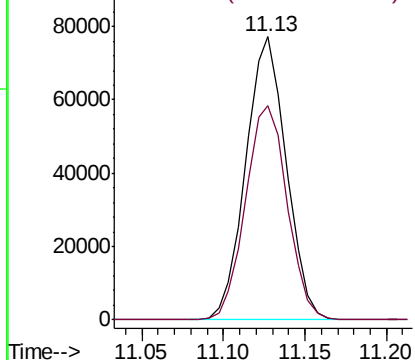


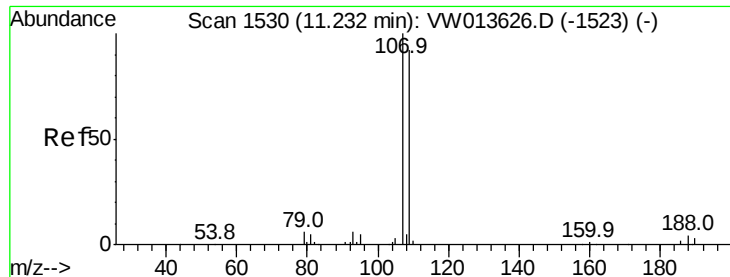
#50
Dibromochloromethane
Concen: 25.980 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion:	129	Resp:	133755
Ion	Ratio	Lower	Upper
129	100		
127	75.6	51.4	95.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

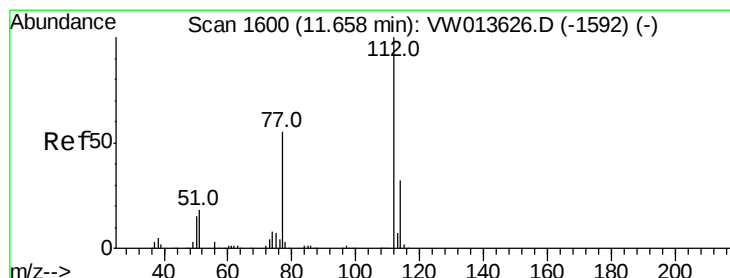
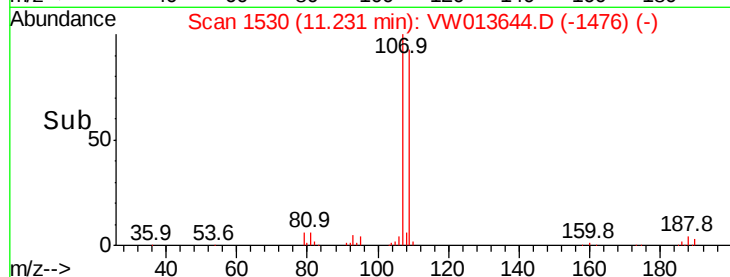
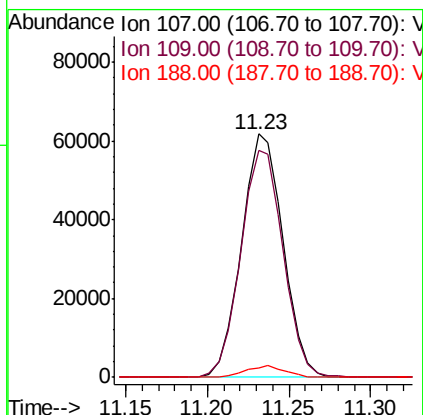
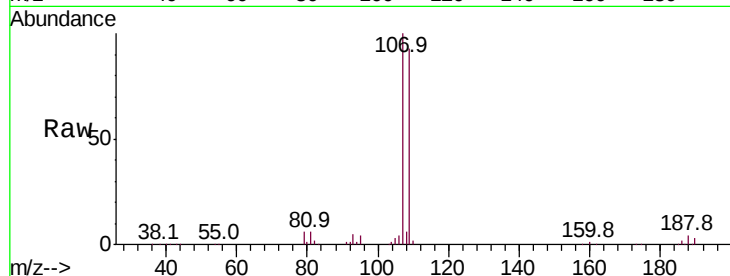




#51
1,2-Dibromoethane
Concen: 25.799 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

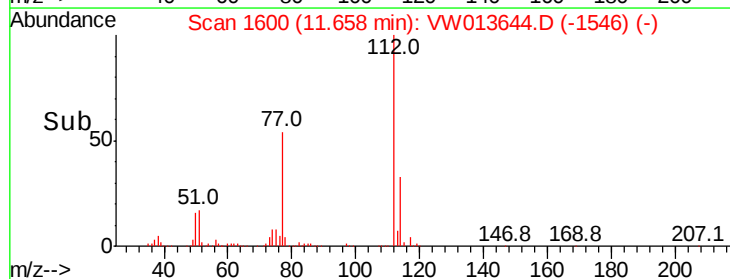
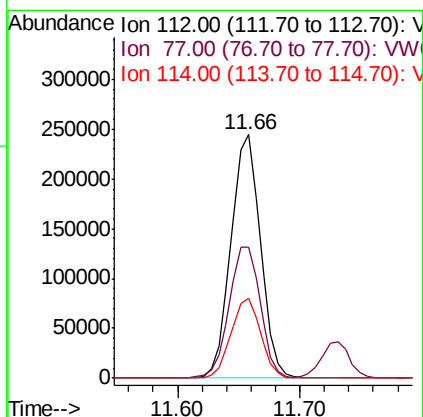
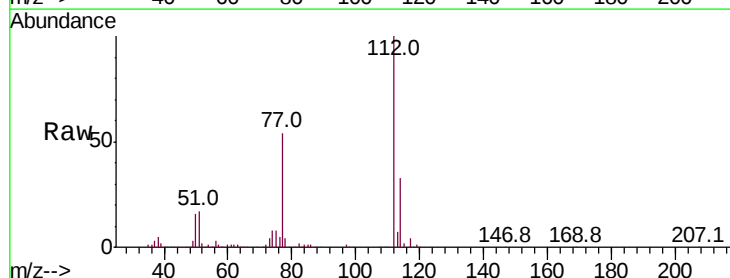
Instrument :
MSVOA_W
ClientSampleId :
VSTD02525

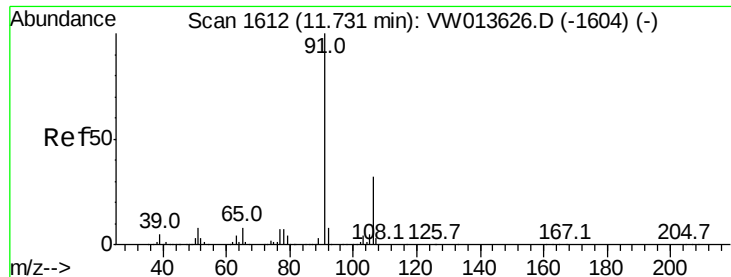
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.0	64.0	118.8
188	3.8	3.4	5.2



#52
Chlorobenzene
Concen: 25.583 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013644.D
Acq: 21 Oct 2019 19:04

Tgt Ion	Ratio	Lower	Upper
112	100		
77	53.9	44.1	66.1
114	32.9	23.4	43.4





#53

Ethylbenzene

Concen: 25.919 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

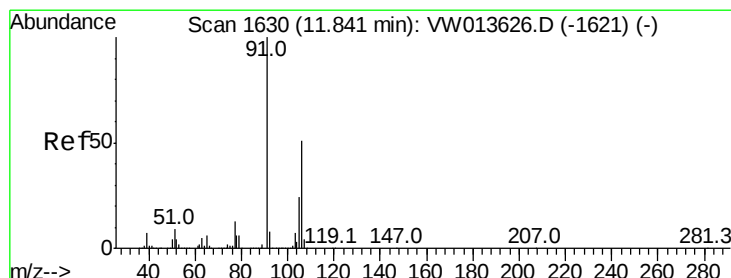
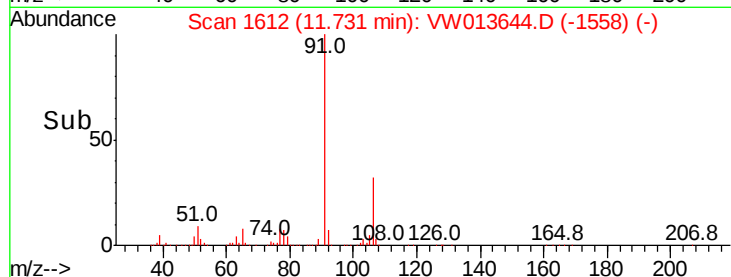
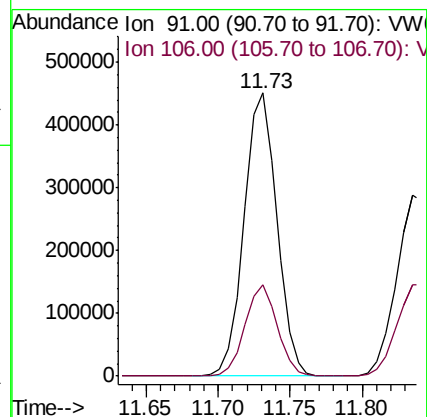
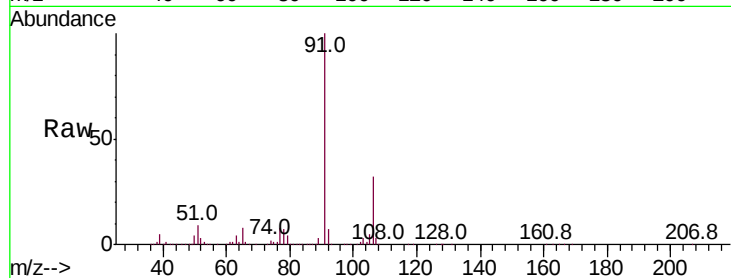
VSTD02525

Tot Ion: 91 Resp: 711770

Ion Ratio Lower Upper

91 100

106 32.4 22.3 41.3



#54

m,p-Xylene

Concen: 26.049 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW013644.D

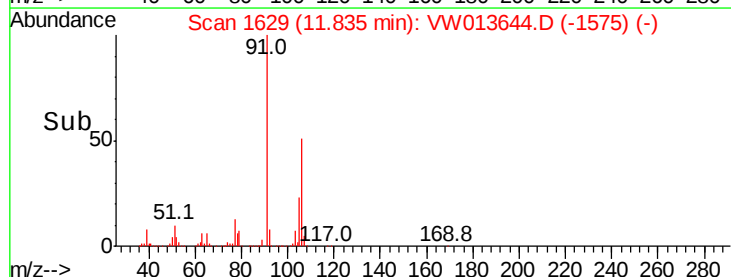
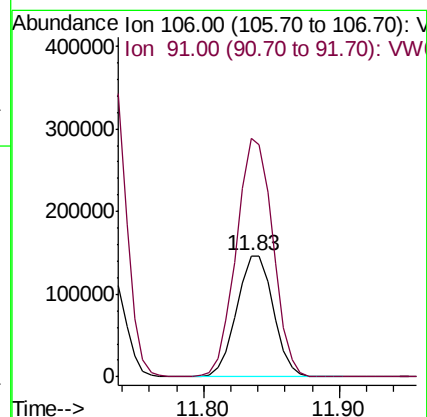
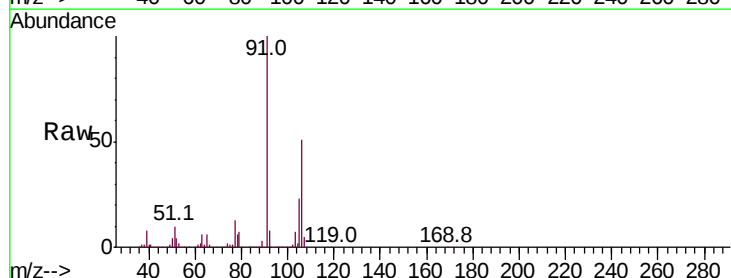
Acq: 21 Oct 2019 19:04

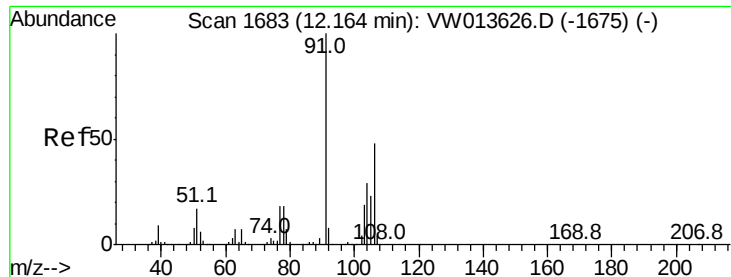
Tgt Ion: 106 Resp: 276430

Ion Ratio Lower Upper

106 100

91 196.8 137.7 255.7





#55

o-xylene

Concen: 26.378 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

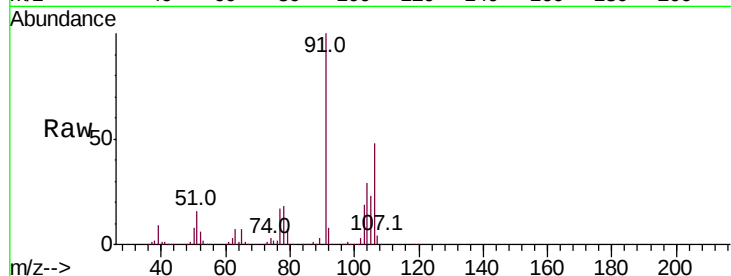
VSTD02525

Tot Ion:106 Resp: 265639

Ion Ratio Lower Upper

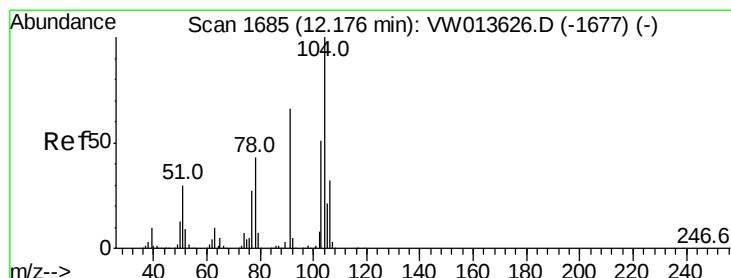
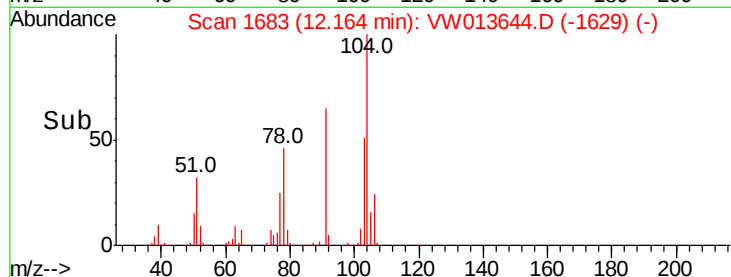
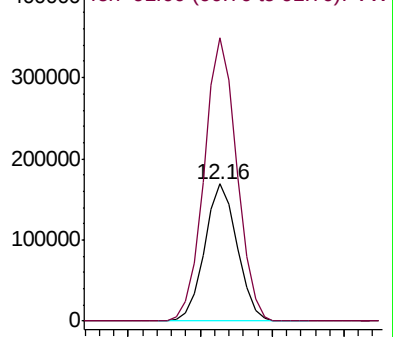
106 100

91 206.8 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.285 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW013644.D

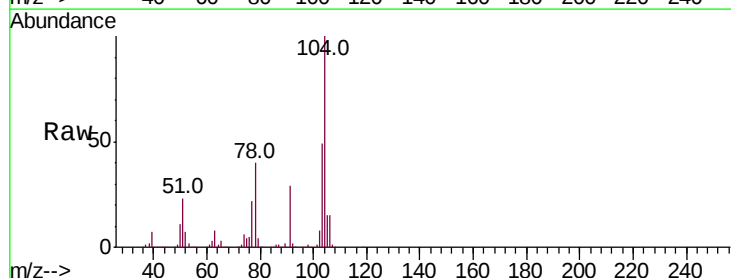
Acq: 21 Oct 2019 19:04

Tgt Ion:104 Resp: 452824

Ion Ratio Lower Upper

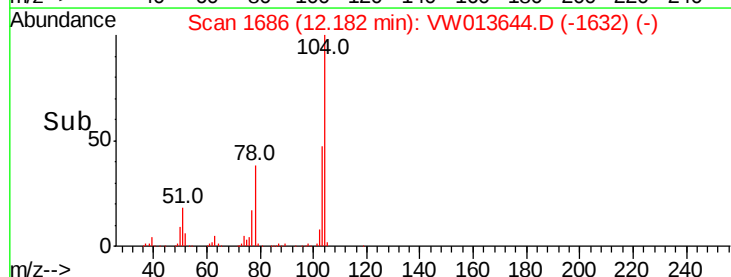
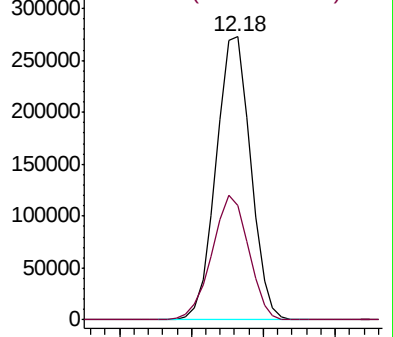
104 100

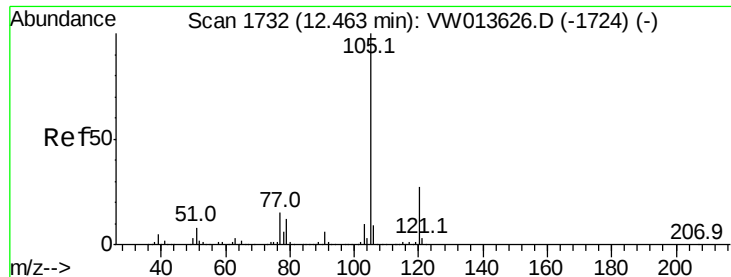
78 40.4 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.345 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

VSTD02525

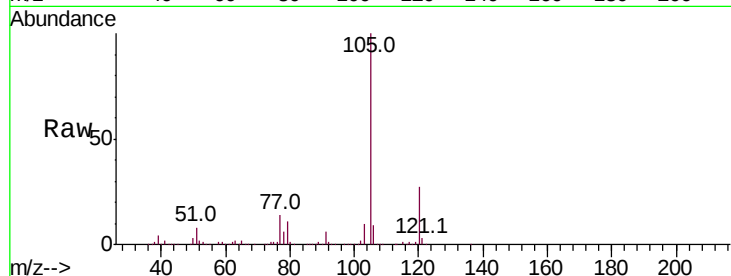
Tot Ion:105 Resp: 711644

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.2

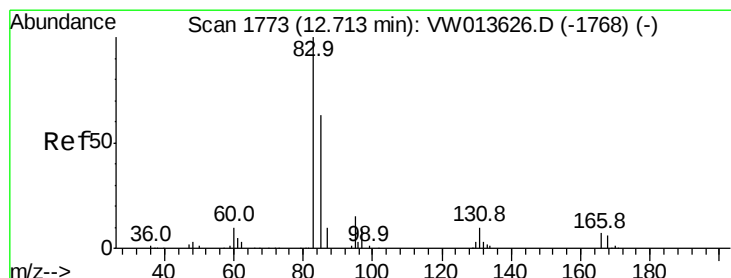
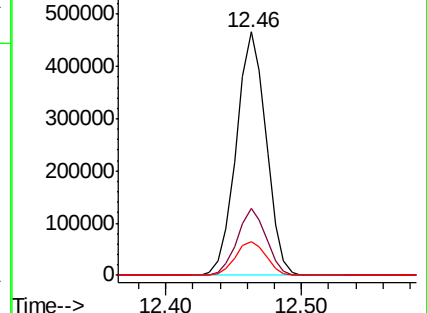
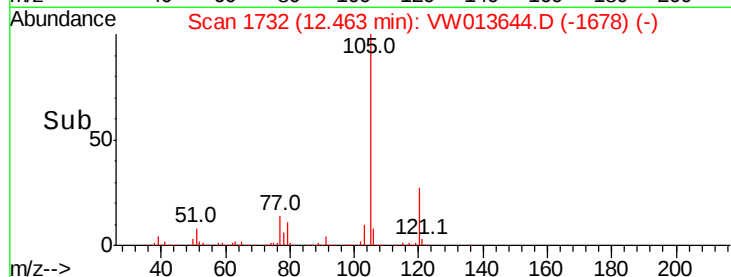
77 14.3 11.4 17.0



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: 26.070 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

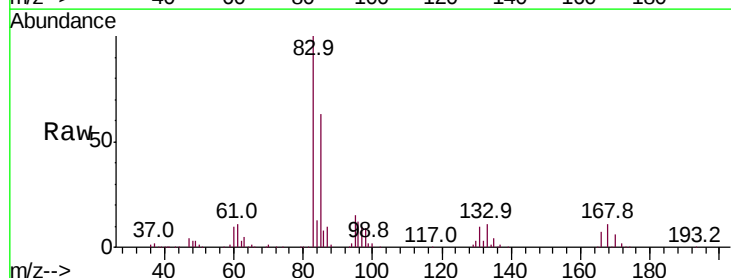
Tgt Ion: 83 Resp: 133297

Ion Ratio Lower Upper

83 100

85 63.4 44.9 83.3

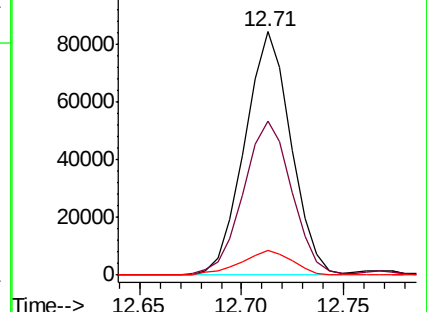
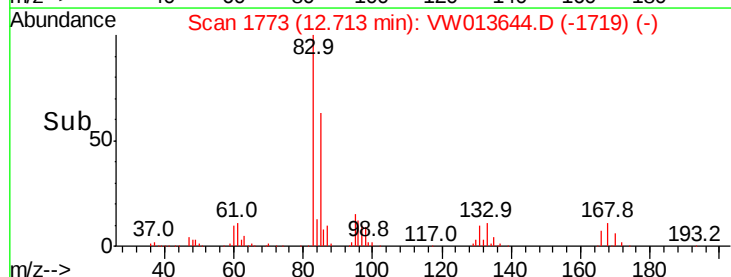
131 9.9 8.6 13.0

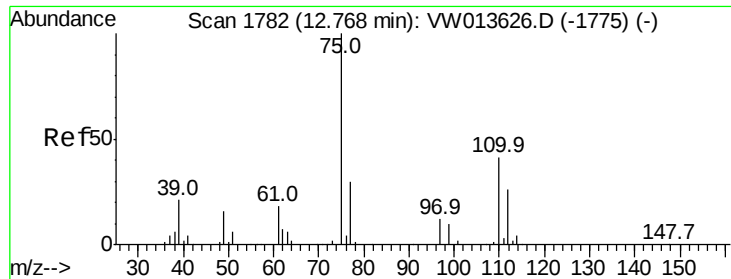


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

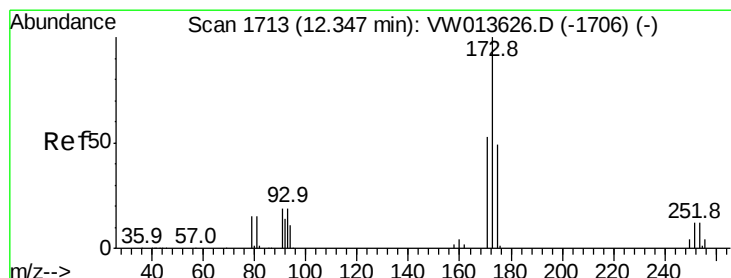
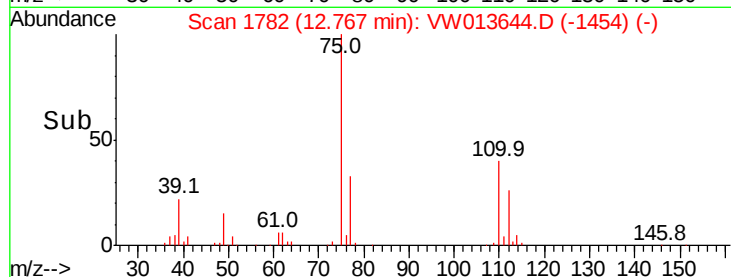
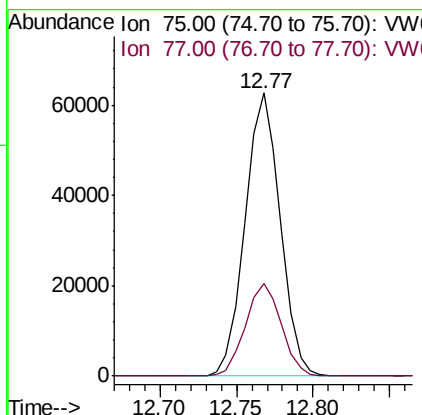
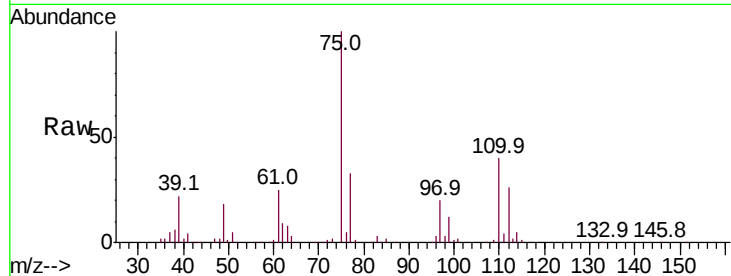




#59
 1,2,3-Trichloropropane
 Concen: 26.235 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

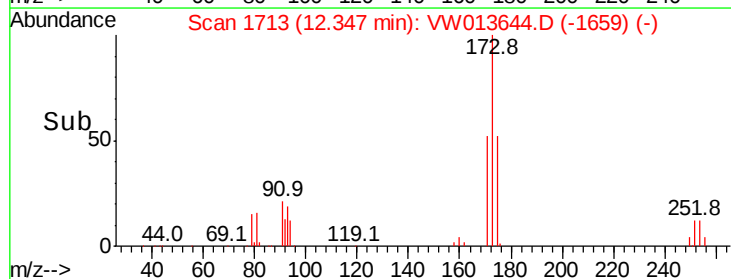
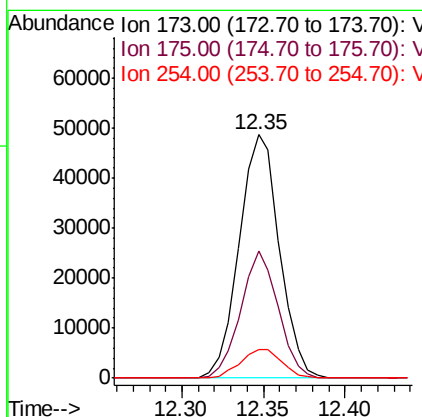
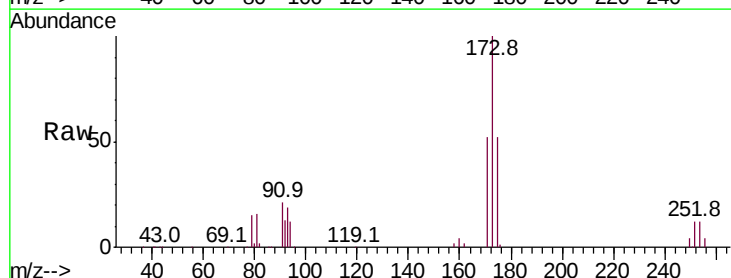
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02525

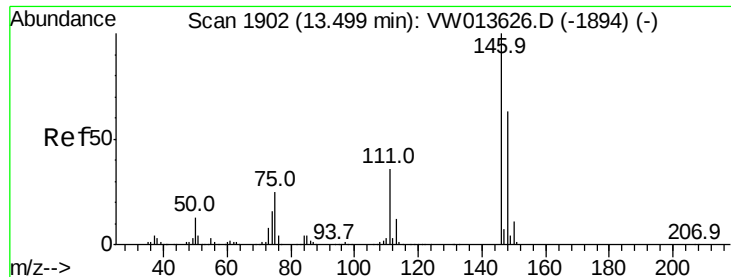
Tot Ion: 75 Resp: 100029
 Ion Ratio Lower Upper
 75 100
 77 33.3 26.4 39.6



#62
 Bromoform
 Concen: 24.561 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion:173 Resp: 83419
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.1 58.7
 254 12.1 9.6 14.4

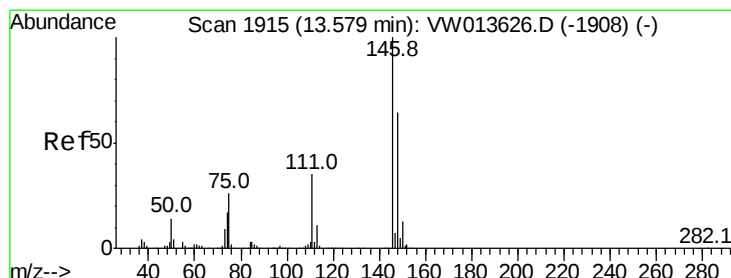
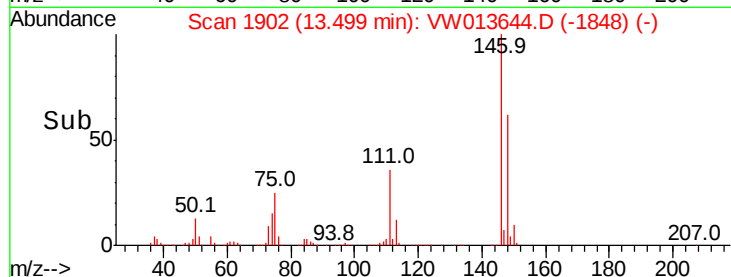
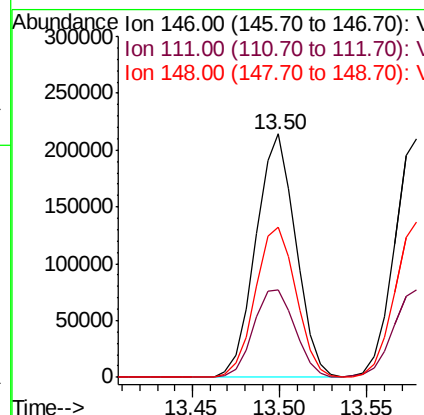
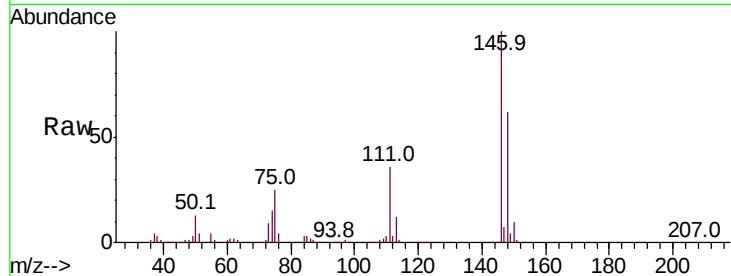




#63
 1,3-Dichlorobenzene
 Concen: 25.254 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

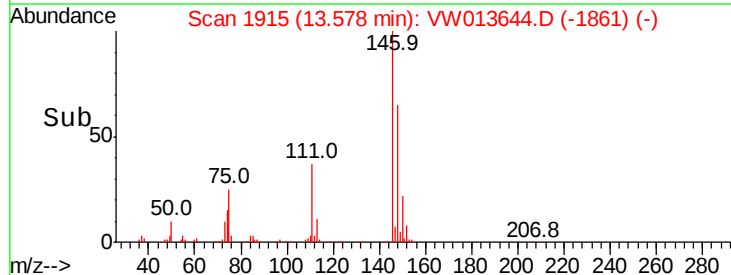
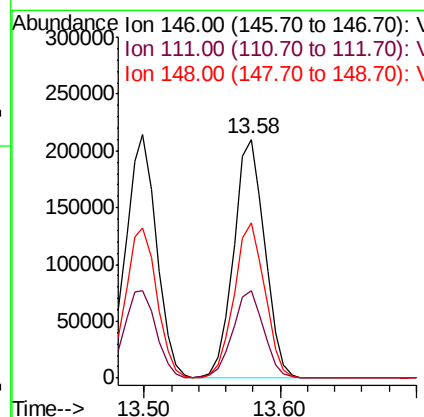
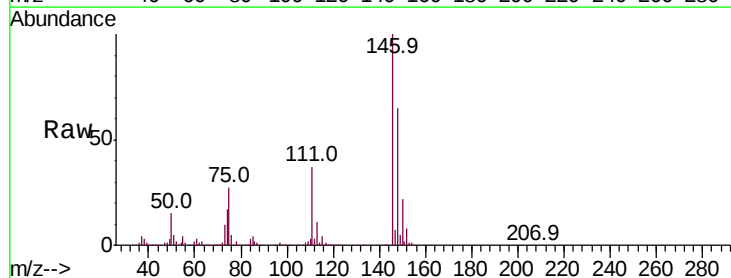
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02525

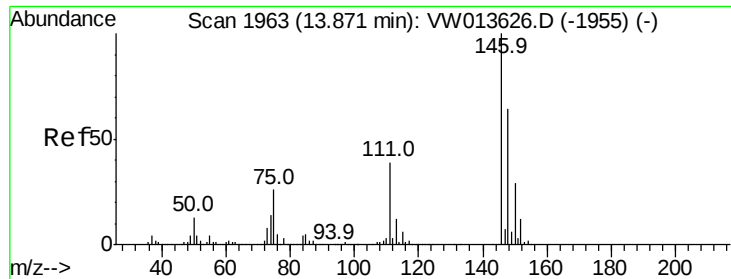
Tot Ion	Ratio	Lower	Upper
146	100		
111	35.8	26.1	48.5
148	61.6	45.8	85.2



#64
 1,4-Dichlorobenzene
 Concen: 24.591 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	24.8	46.0
148	64.9	43.0	79.8





#65

1,2-Dichlorobenzene

Concen: 25.274 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

VSTD02525

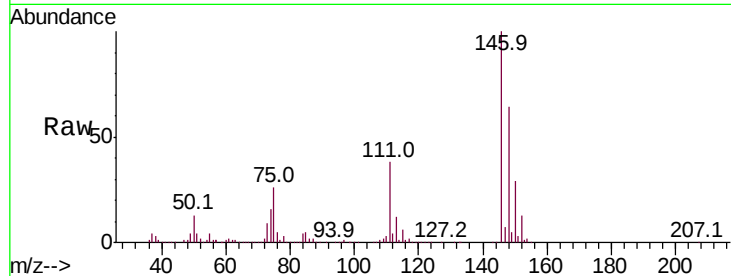
Tot Ion:146 Resp: 307943

Ion Ratio Lower Upper

146 100

111 38.2 30.7 46.1

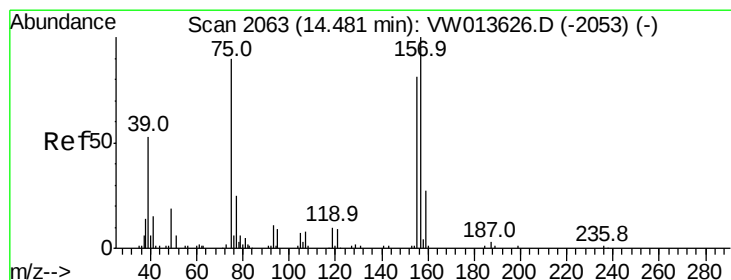
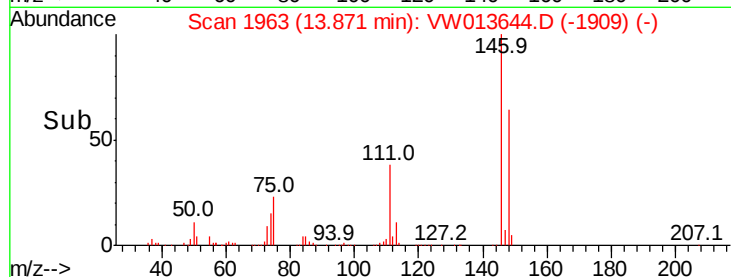
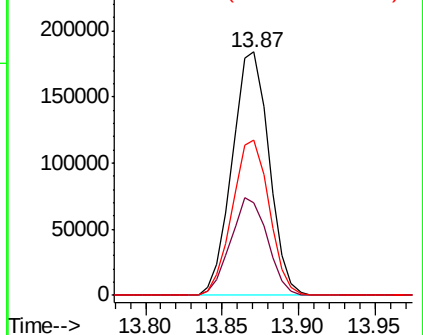
148 63.8 53.3 79.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 24.872 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

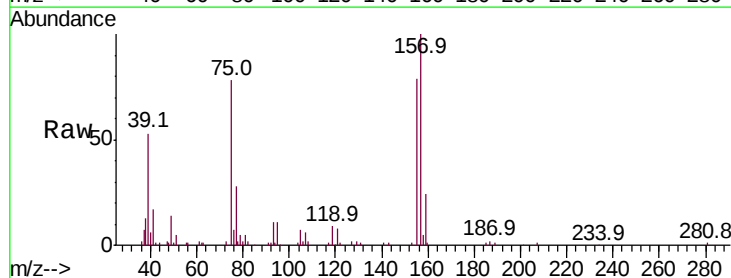
Tgt Ion: 75 Resp: 20830

Ion Ratio Lower Upper

75 100

157 128.0 99.4 149.0

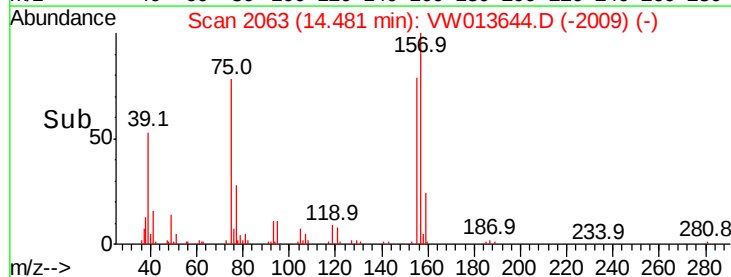
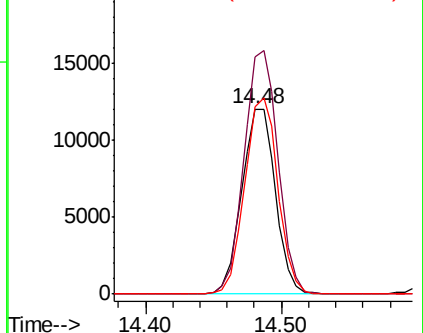
155 100.7 69.7 104.5

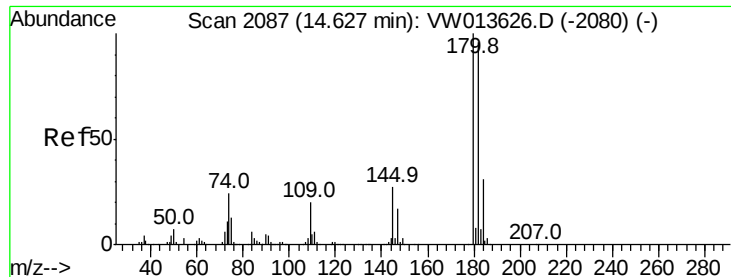


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

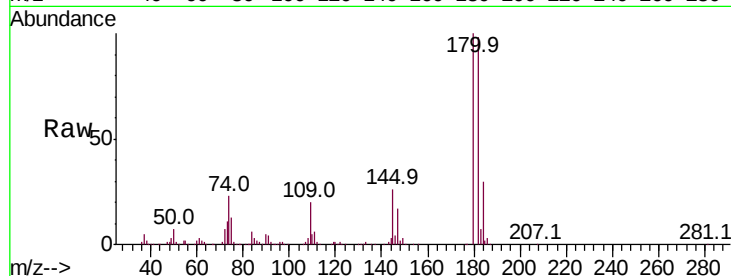




#67
 1,3,5-Trichlorobenzene
 Concen: 25.951 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02525

Tot Ion:180	Resp:	259433	
Ion Ratio	Lower	Upper	
180 100			
182 95.2	76.2	114.4	
184 29.9	24.1	36.1	
145 27.3	21.8	32.8	



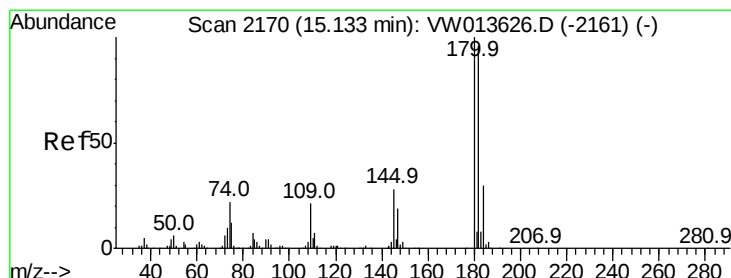
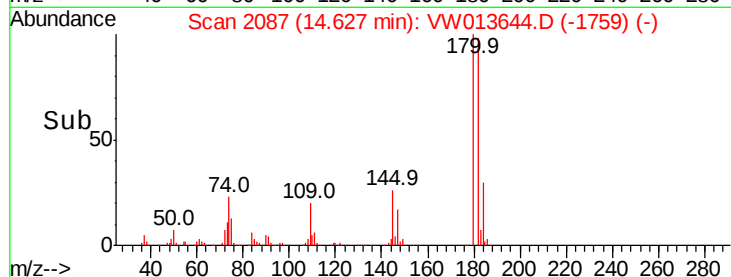
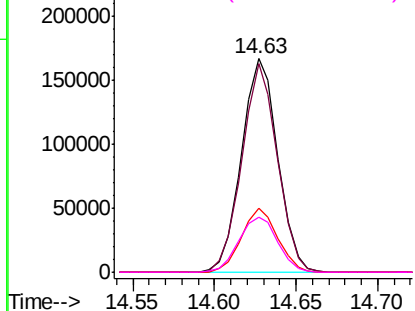
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

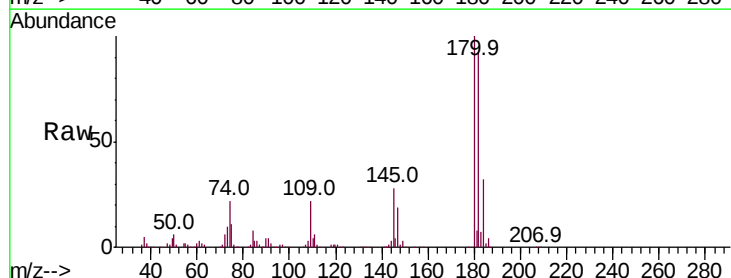
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.797 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013644.D
 Acq: 21 Oct 2019 19:04

Tgt Ion:180	Resp: 218941
Ion Ratio	Lower Upper
180 100	
182 94.3	75.8 113.8
145 28.0	22.6 34.0

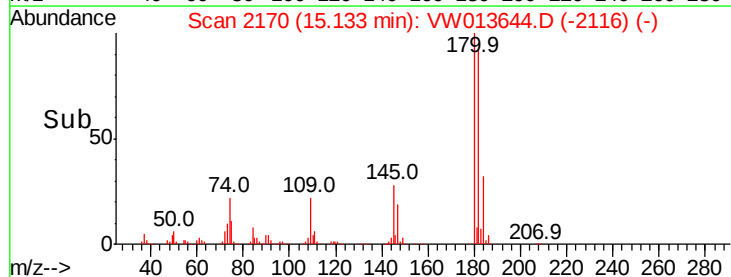
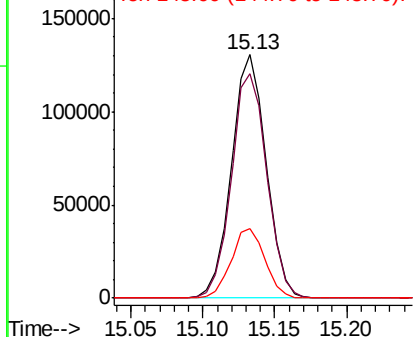


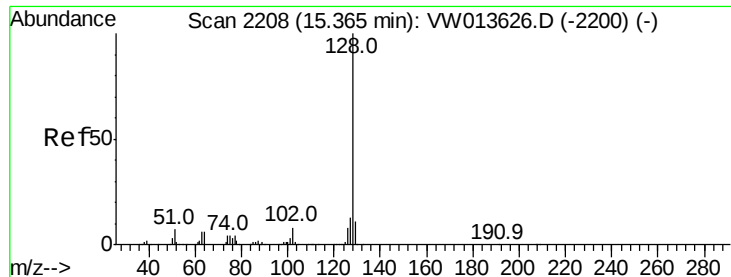
Abundance

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





#69

Naphthalene

Concen: 27.105 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

VSTD02525

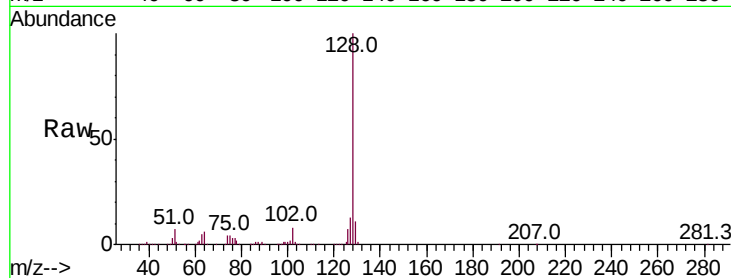
Tot Ion:128 Resp: 416846

Ion Ratio Lower Upper

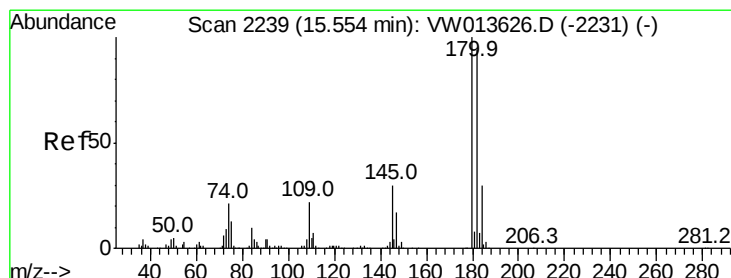
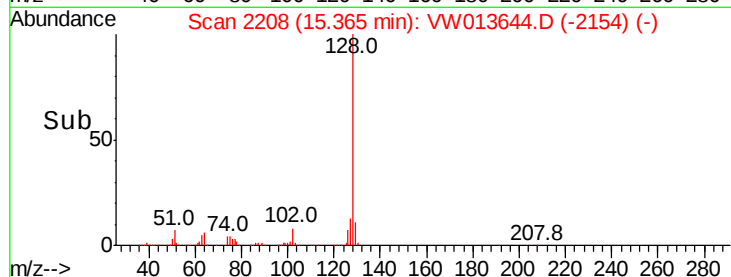
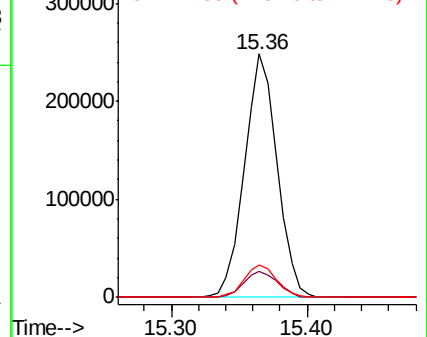
128 100

129 11.0 8.6 13.0

127 13.2 10.5 15.7



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: 26.770 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013644.D

Acq: 21 Oct 2019 19:04

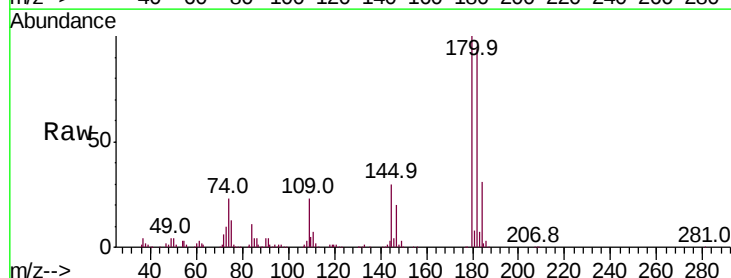
Tgt Ion:180 Resp: 203464

Ion Ratio Lower Upper

180 100

182 95.2 77.0 115.4

145 29.1 24.1 36.1



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

