

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102119\
 Data File : VW013626.D
 Acq On : 21 Oct 2019 09:57
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 21 16:36:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 18 13:08:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	351149	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	331614	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	199541	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	113851	26.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.68%
7) Chloroethane-d5	2.89	69	102480	25.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.92%
10) 1,1-Dichloroethene-d2	4.03	63	249993	26.27	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	105.08%
20) 2-Butanone-d5	7.07	46	80043	51.95	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.90%
24) Chloroform-d	7.65	84	248317	25.27	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.08%
26) 1,2-Dichloroethane-d4	8.31	65	123759	24.09	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.36%
29) Benzene-d6	8.27	84	510035	25.60	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.40%
33) 1,2-Dichloropropane-d6	9.27	67	154341	25.94	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.76%
37) Toluene-d8	10.32	98	467140	25.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.68%
38) trans-1,3-Dichloropropene-	10.57	79	68055	25.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.40%
39) 2-Hexanone-d5	10.92	63	61044	53.67	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.34%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	127230	26.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.44%
61) 1,2-Dichlorobenzene-d4	13.85	152	176307	25.00	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	102093	25.849	ug/L	95
3) Chloromethane	2.21	50	93695	21.915	ug/L	98
5) Vinyl chloride	2.37	62	145561	27.243	ug/L	99
6) Bromomethane	2.78	94	93446	24.204	ug/L	100
8) Chloroethane	2.93	64	92609	25.649	ug/L	99
9) Trichlorofluoromethane	3.26	101	97707	27.132	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	143471	25.301	ug/L	99
12) 1,1-Dichloroethene	4.04	96	148876	26.677	ug/L	89
13) Acetone	4.13	43	76768	44.887	ug/L	97
14) Carbon disulfide	4.39	76	434656	27.219	ug/L	100
15) Methyl Acetate	4.67	43	67346	24.100	ug/L	99
16) Methylene chloride	4.92	84	147637	21.956	ug/L	98
17) Methyl tert-butyl Ether	5.43	73	185173	23.981	ug/L #	90
18) trans-1,2-Dichloroethene	5.42	96	155339	25.180	ug/L	94
19) 1,1-Dichloroethane	6.21	63	262703	25.157	ug/L	97
21) 2-Butanone	7.17	43	99318	45.738	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	165652	25.016	ug/L	97

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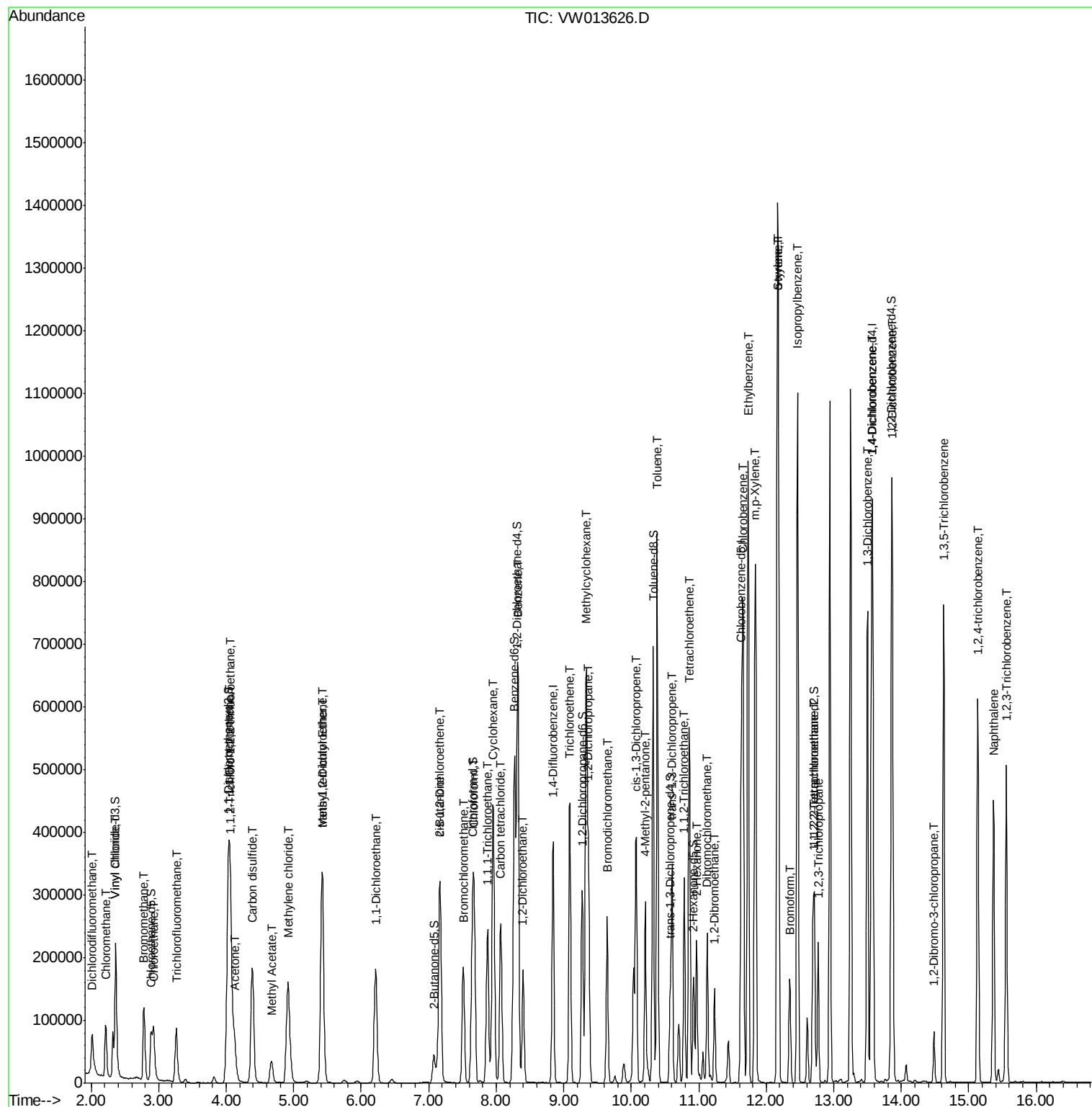
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	72409	24.193	ug/L	99
25) Chloroform	7.67	83	257022	24.503	ug/L	100
27) 1,2-Dichloroethane	8.40	62	161007	23.949	ug/L	99
30) Cyclohexane	7.95	56	262824	27.053	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	200908	25.976	ug/L	99
32) Carbon tetrachloride	8.07	117	198734	26.387	ug/L	98
34) Benzene	8.32	78	613882	25.800	ug/L	100
35) Trichloroethene	9.09	95	160611	26.309	ug/L	98
36) Methylcyclohexane	9.34	83	287525	26.721	ug/L	99
40) 1,2-Dichloropropane	9.37	63	148431	25.514	ug/L	99
41) Bromodichloromethane	9.65	83	185160	25.975	ug/L	96
42) cis-1,3-Dichloropropene	10.07	75	235015	25.586	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	188199	47.414	ug/L	99
44) Toluene	10.38	91	663617	25.959	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	190460	25.688	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	108702	24.227	ug/L	97
47) Tetrachloroethene	10.86	164	144962	25.941	ug/L	99
49) 2-Hexanone	10.97	43	145011	51.496	ug/L	99
50) Dibromochloromethane	11.13	129	131856	24.901	ug/L	95
51) 1,2-Dibromoethane	11.23	107	106774	24.471	ug/L	99
52) Chlorobenzene	11.66	112	417824	25.545	ug/L	99
53) Ethylbenzene	11.73	91	728475	25.791	ug/L	99
54) m,p-Xylene	11.84	106	286769	26.273	ug/L	100
55) o-xylene	12.16	106	266610	25.740	ug/L	98
56) Styrene	12.18	104	459995	25.961	ug/L	97
57) Isopropylbenzene	12.46	105	725183	26.102	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	130497	24.815	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	96594	24.631	ug/L	98
62) Bromoform	12.35	173	83876	24.527	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	337452	24.923	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	330169	24.267	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	303776	24.762	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	20217	23.976	ug/L	92
67) 1,3,5-Trichlorobenzene	14.63	180	261084	25.938	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	220735	25.831	ug/L	99
69) Naphthalene	15.36	128	397748	25.687	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	193820	25.327	ug/L	99

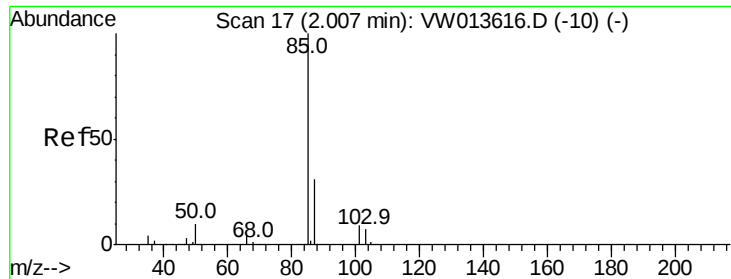
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 25.849 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

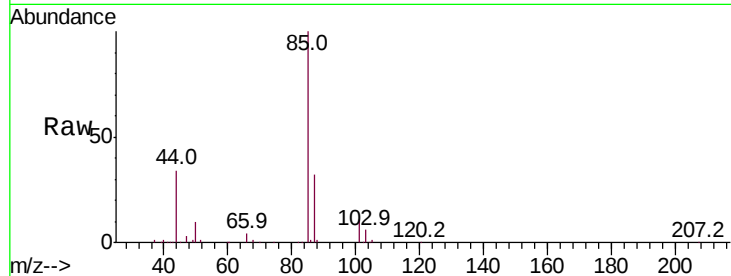
ClientSampleId :

Tot Ion: 85 Resp: 102093

Ion Ratio Lower Upper

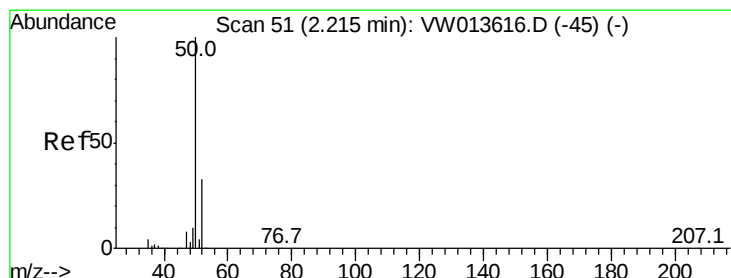
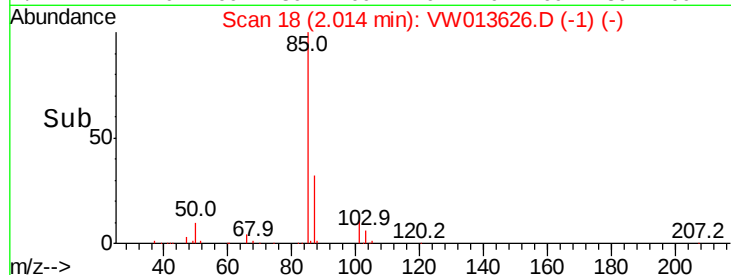
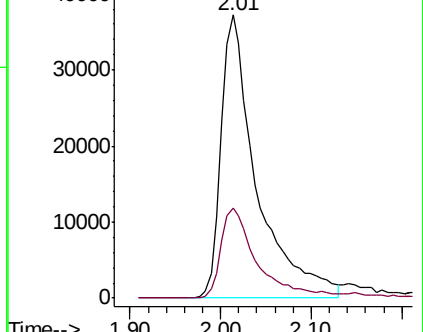
85 100

87 31.4 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: 21.915 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW013626.D

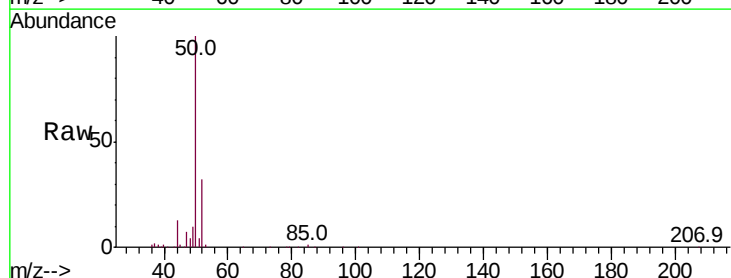
Acq: 21 Oct 2019 09:57

Tgt Ion: 50 Resp: 93695

Ion Ratio Lower Upper

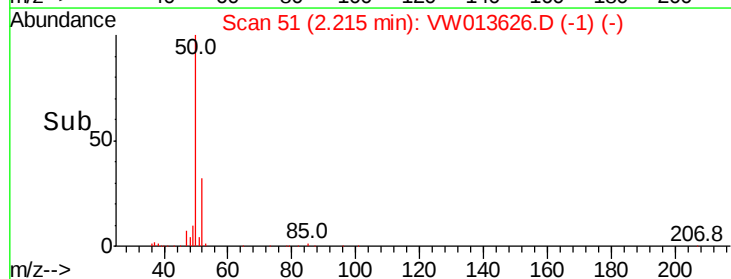
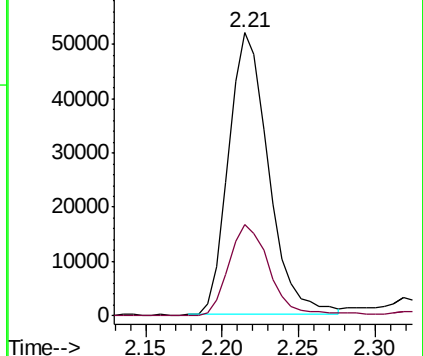
50 100

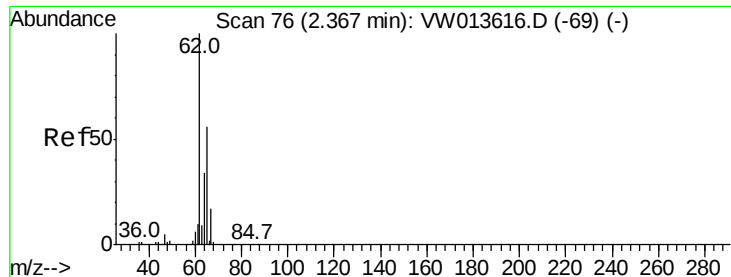
52 32.2 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 27.243 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

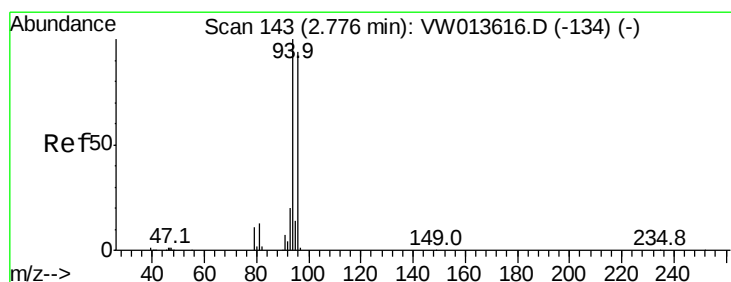
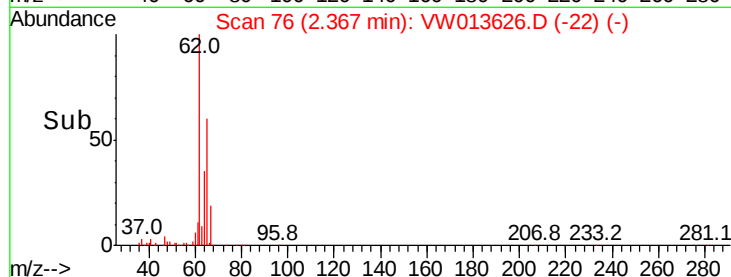
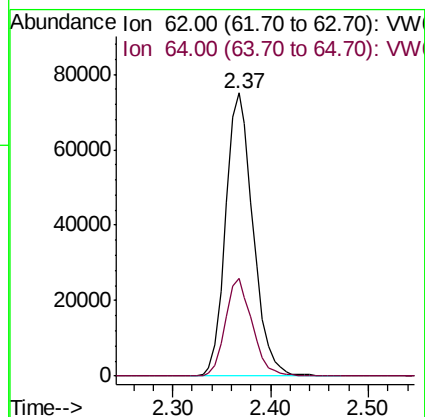
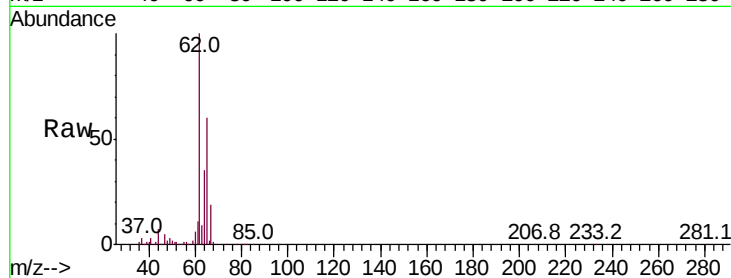
ClientSampleId :

Tot Ion: 62 Resp: 145561

Ion Ratio Lower Upper

62 100

64 34.7 23.9 44.5



#6

Bromomethane

Concen: 24.204 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW013626.D

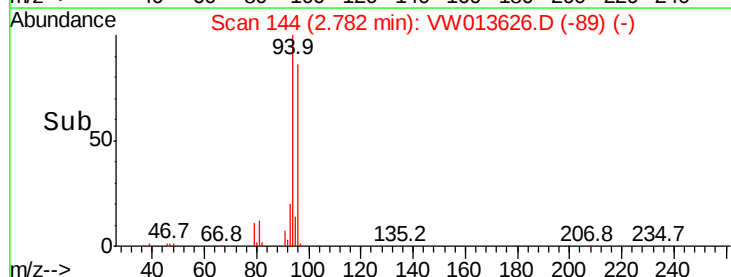
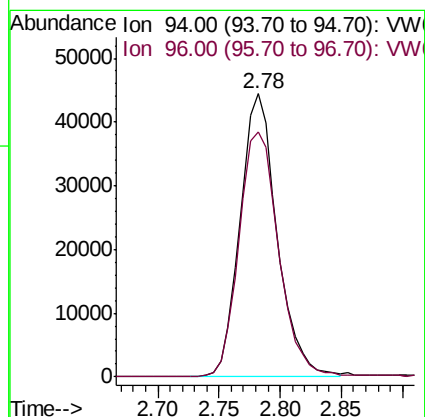
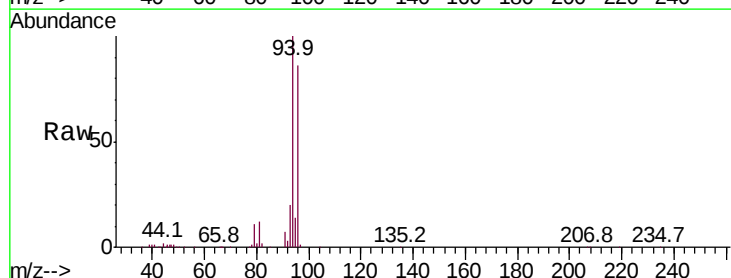
Acq: 21 Oct 2019 09:57

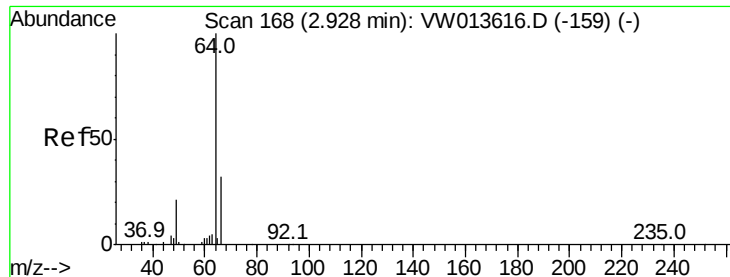
Tgt Ion: 94 Resp: 93446

Ion Ratio Lower Upper

94 100

96 92.7 9.3 176.9





#8

Chloroethane

Concen: 25.649 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

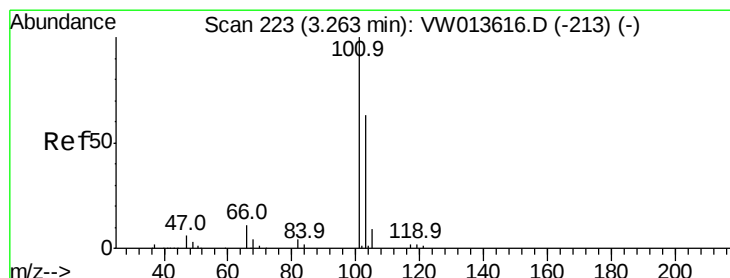
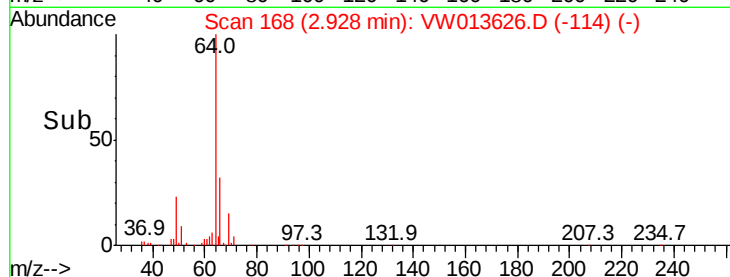
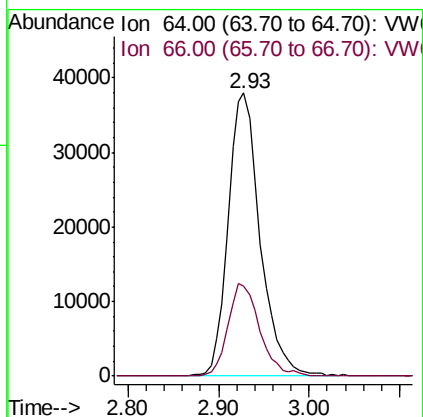
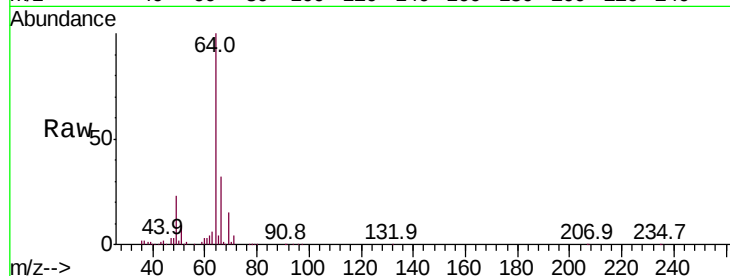
ClientSampleId :

Tot Ion: 64 Resp: 92609

Ion Ratio Lower Upper

64 100

66 32.0 22.2 41.2



#9

Trichlorofluoromethane

Concen: 27.132 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.00 min

Lab File: VW013626.D

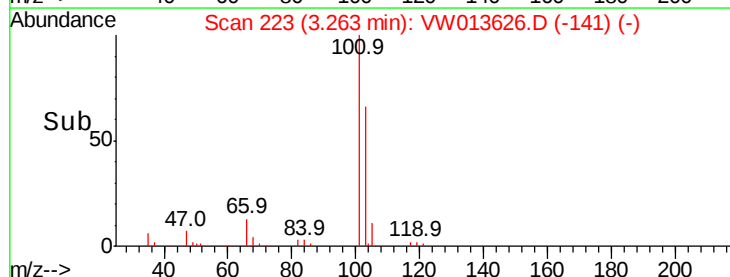
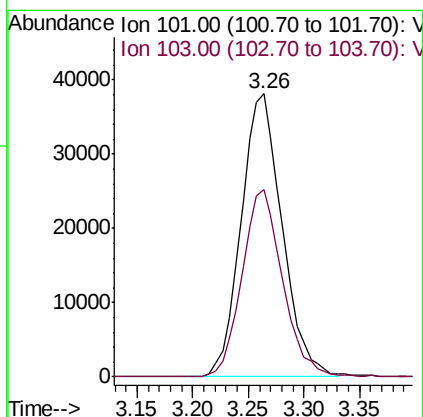
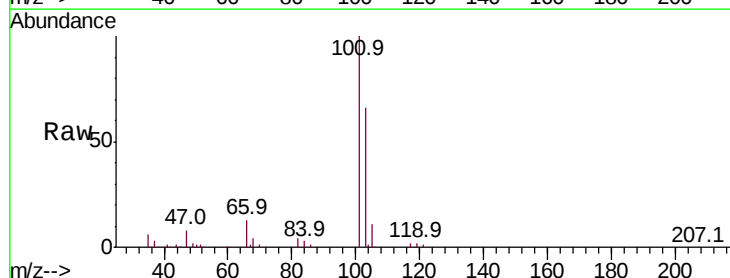
Acq: 21 Oct 2019 09:57

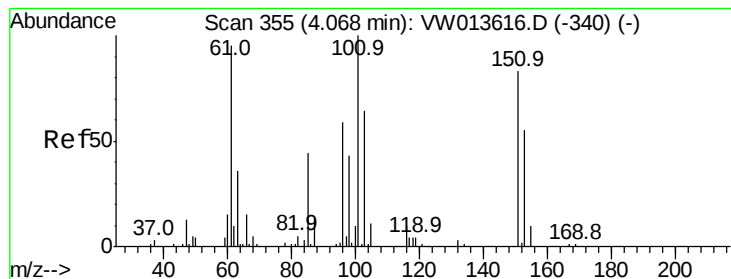
Tgt Ion: 101 Resp: 97707

Ion Ratio Lower Upper

101 100

103 65.1 46.5 86.5





#11

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

Concen: 25.301 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampled :

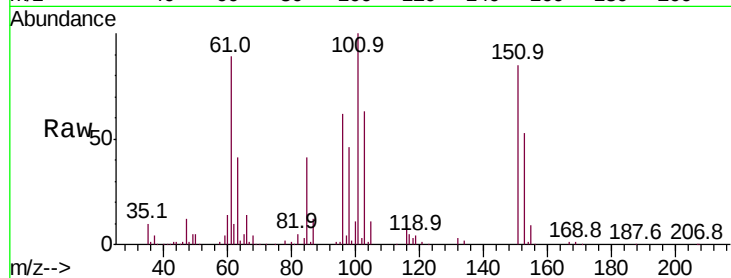
Tot Ion:101 Resp: 143471

Ion Ratio Lower Upper

101 100

85 41.6 32.0 48.0

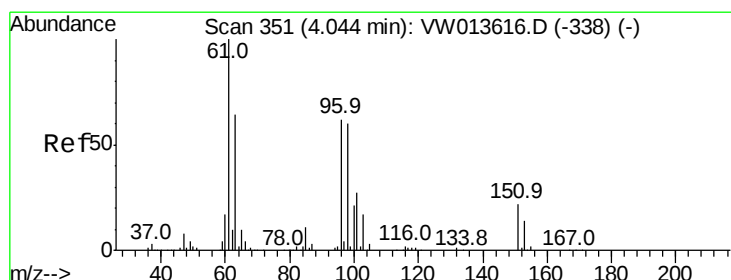
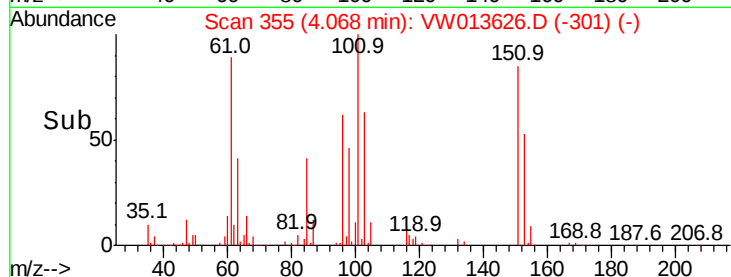
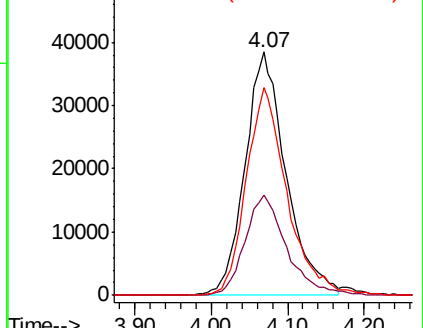
151 83.9 66.9 100.3



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: 26.677 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

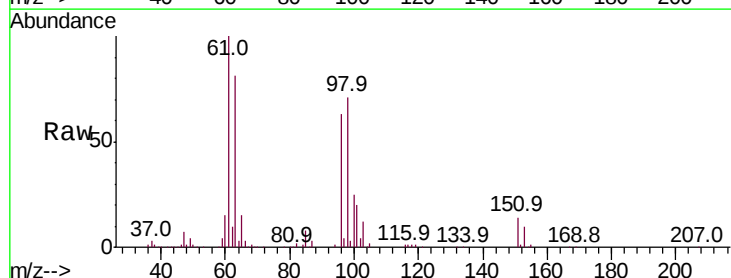
Tgt Ion: 96 Resp: 148876

Ion Ratio Lower Upper

96 100

61 157.5 112.7 209.3

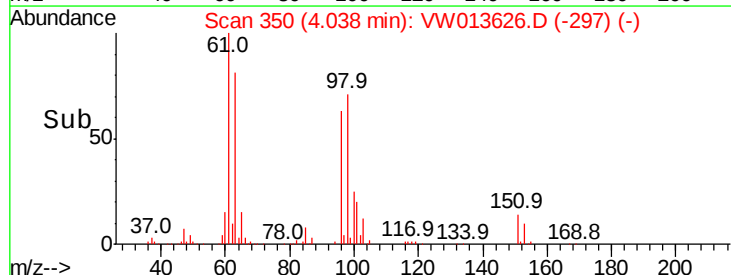
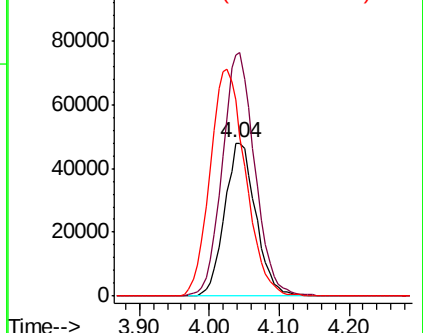
63 127.6 72.8 135.2

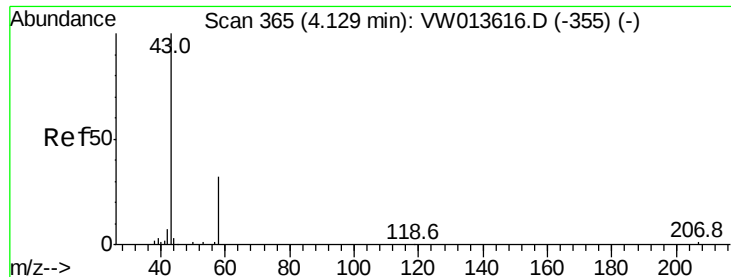


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 44.887 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

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MSVOA_W

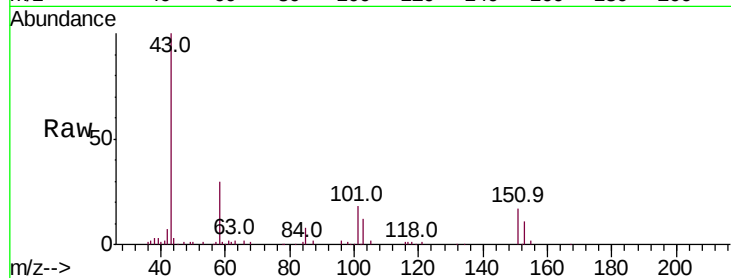
ClientSampleId :

Tot Ion: 43 Resp: 76768

Ion Ratio Lower Upper

43 100

58 33.5 0.0 70.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

30000

25000

20000

15000

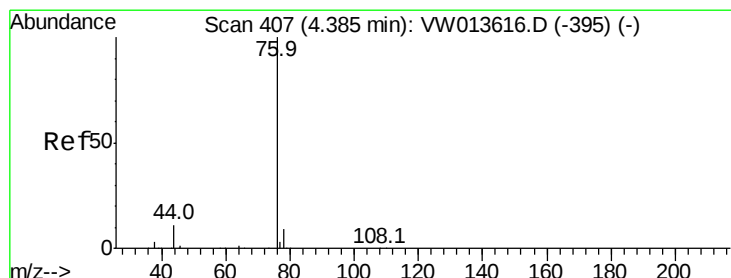
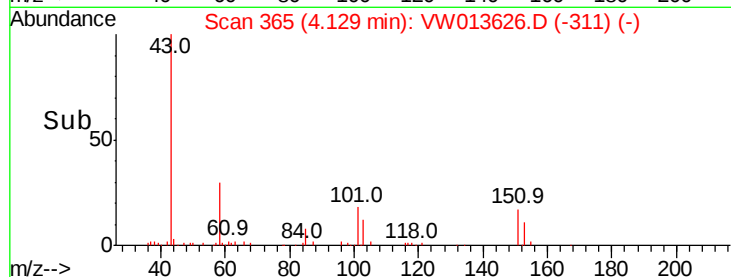
10000

5000

0

Time-->

4.05 4.10 4.15 4.20 4.25



#14

Carbon disulfide

Concen: 27.219 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW013626.D

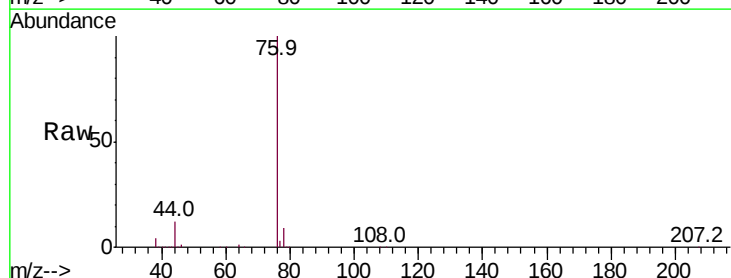
Acq: 21 Oct 2019 09:57

Tgt Ion: 76 Resp: 434656

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

150000

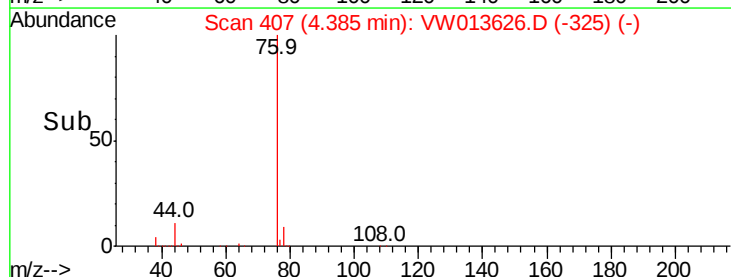
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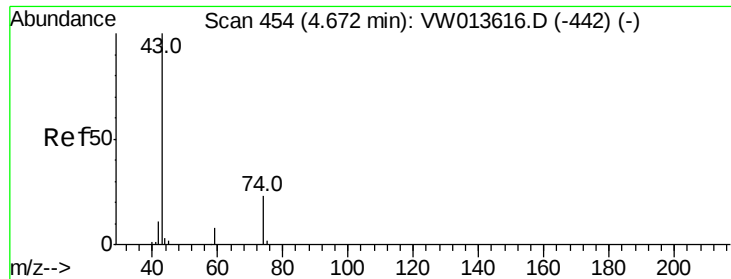
50000

0

Time-->

4.30 4.40 4.50





#15

Methyl Acetate

Concen: 24.100 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

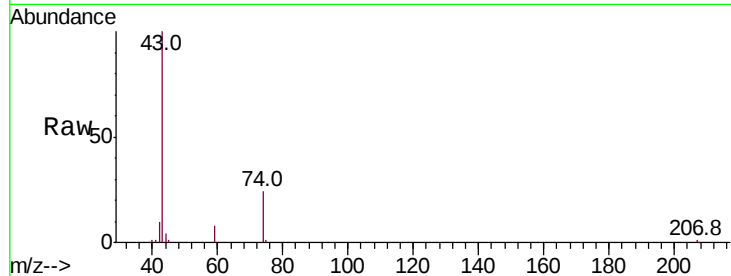
ClientSampled :

Tot Ion: 43 Resp: 67346

Ion Ratio Lower Upper

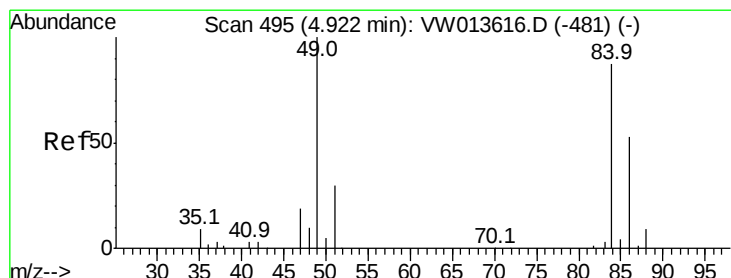
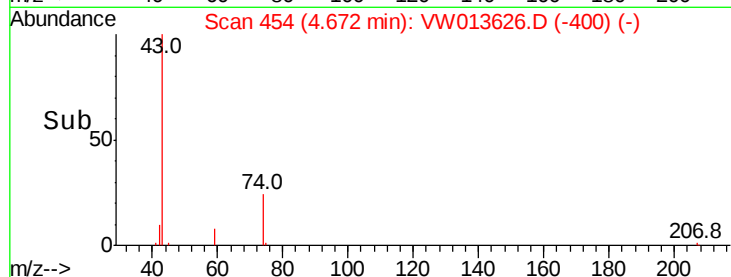
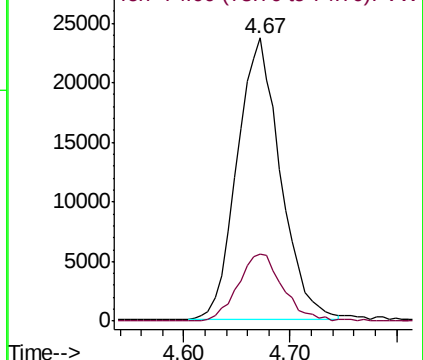
43 100

74 24.6 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: 21.956 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

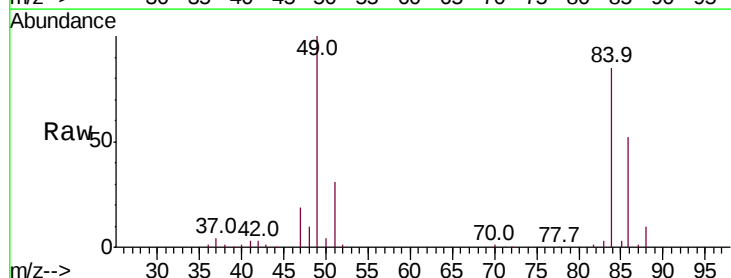
Tgt Ion: 84 Resp: 147637

Ion Ratio Lower Upper

84 100

49 117.1 80.2 148.9

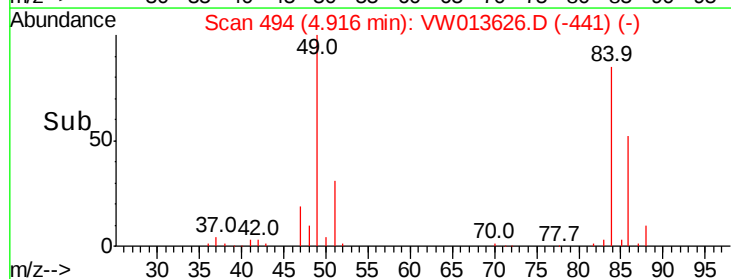
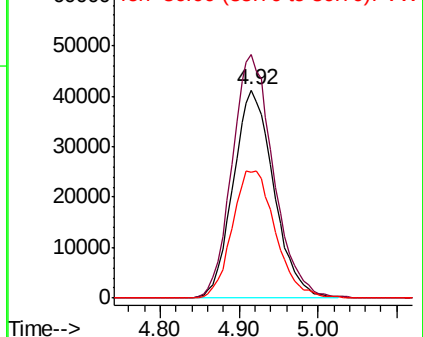
86 60.8 42.7 79.3

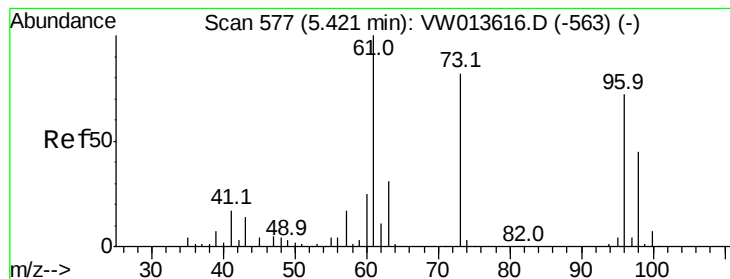


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW



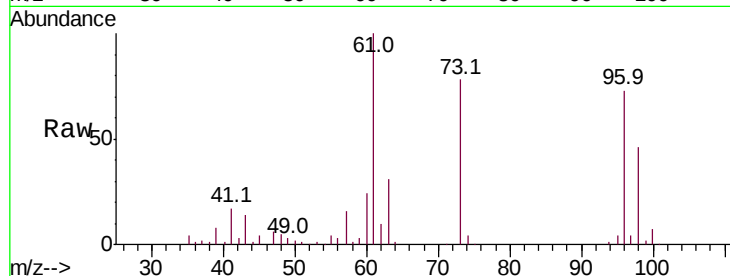


#17

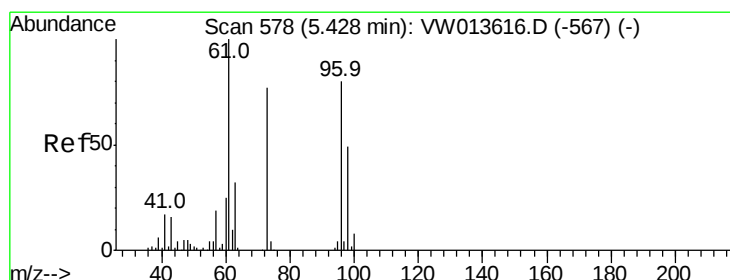
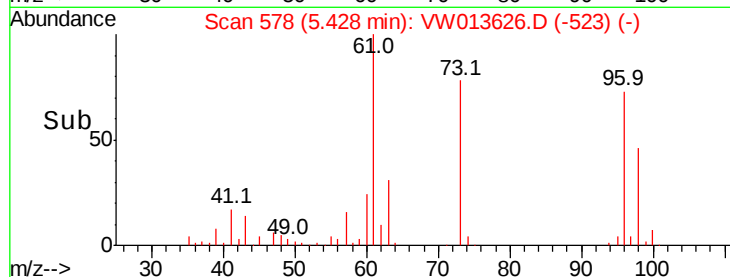
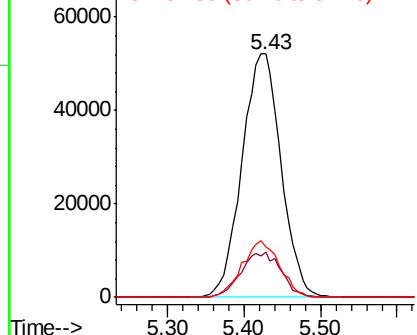
Methyl tert-butyl Ether
 Concen: 23.981 ug/L
 RT: 5.43 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 73 Resp: 185173
 Ion Ratio Lower Upper
 73 100
 43 10.3 15.4 23.2#
 57 22.3 17.7 26.5



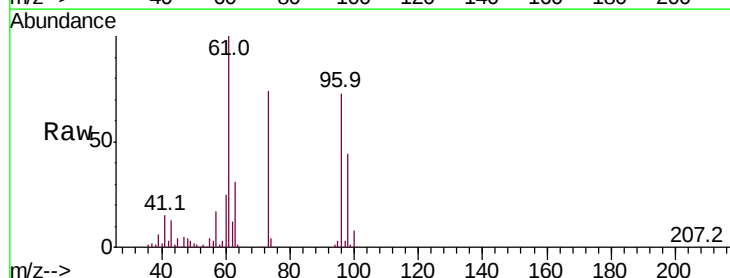
Abundance Ion 73.00 (72.70 to 73.70): VW
 Ion 43.00 (42.70 to 43.70): VW
 Ion 57.00 (56.70 to 57.70): VW



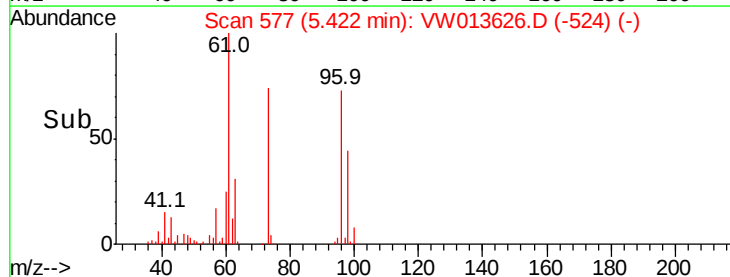
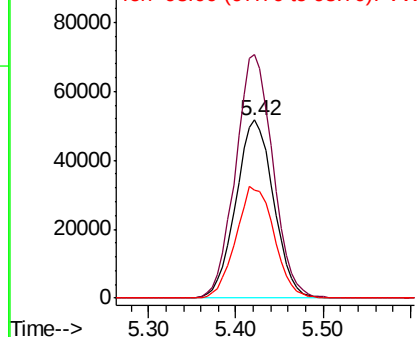
#18

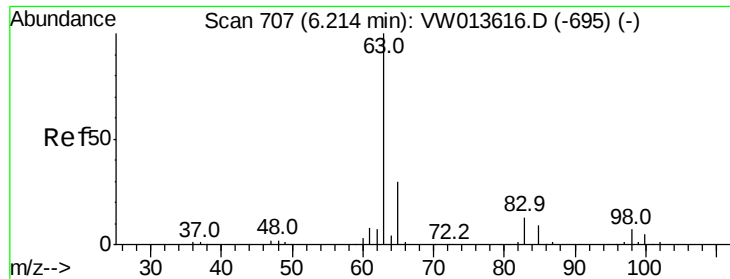
trans-1,2-Dichloroethene
 Concen: 25.180 ug/L
 RT: 5.42 min Scan# 577
 Delta R.T. -0.01 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Tgt Ion: 96 Resp: 155339
 Ion Ratio Lower Upper
 96 100
 61 136.6 88.4 164.2
 98 60.8 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

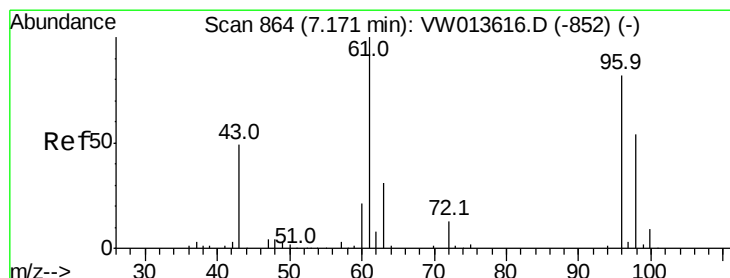
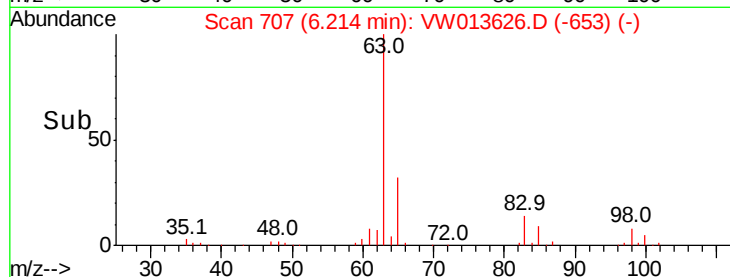
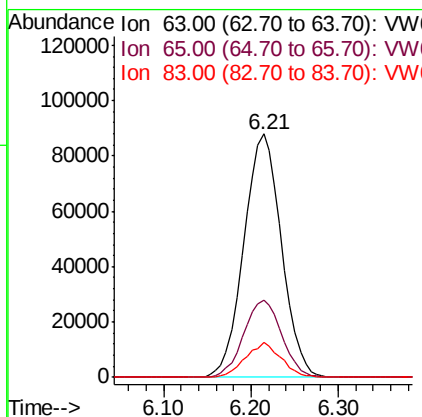
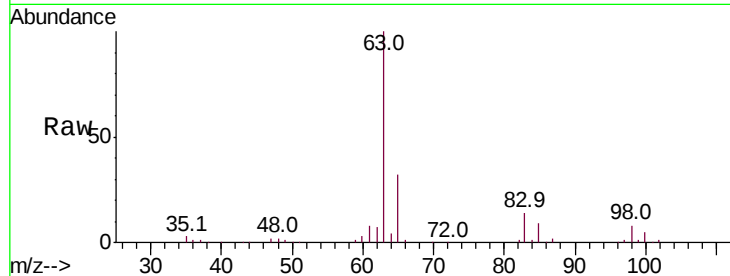




#19
 1,1-Dichloroethane
 Concen: 25.157 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

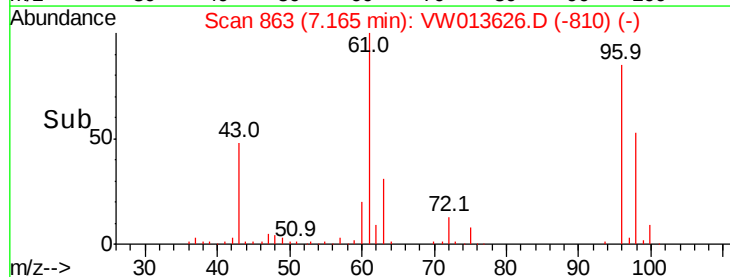
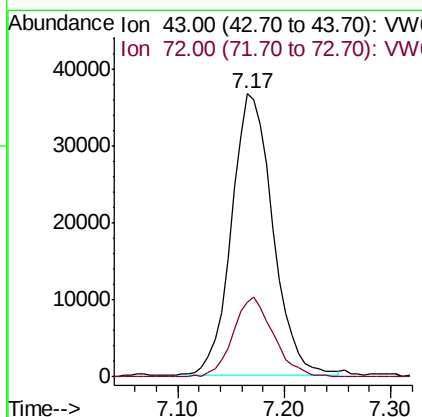
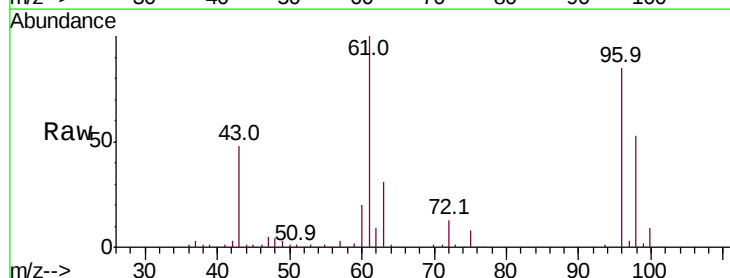
Instrument :
 MSVOA_W
 ClientSampleId :

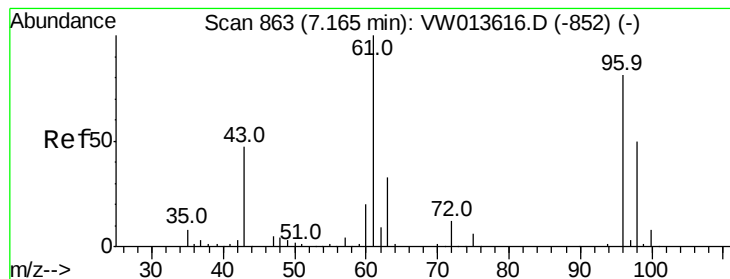
Tot Ion: 63 Resp: 262703
 Ion Ratio Lower Upper
 63 100
 65 31.8 20.9 38.7
 83 14.2 9.2 17.2



#21
 2-Butanone
 Concen: 45.738 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Tgt Ion: 43 Resp: 99318
 Ion Ratio Lower Upper
 43 100
 72 27.7 13.7 41.1



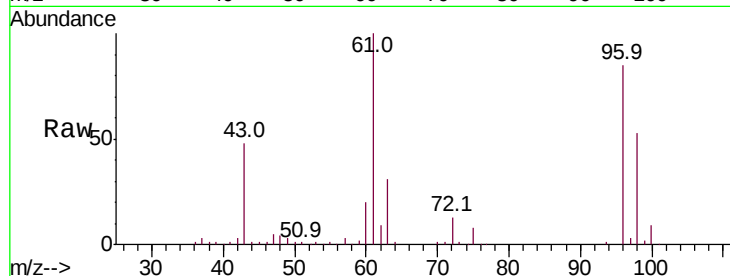


#22

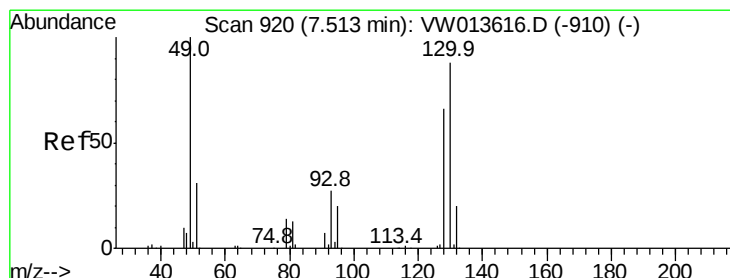
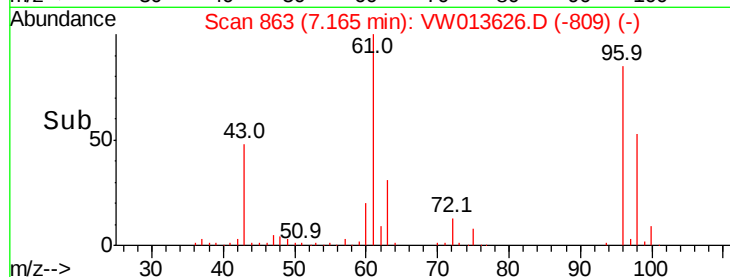
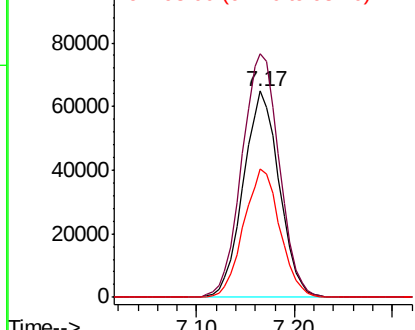
cis-1,2-Dichloroethene
Concen: 25.016 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 96 Resp: 165652
Ion Ratio Lower Upper
96 100
61 118.2 86.2 160.0
98 62.1 43.0 79.8



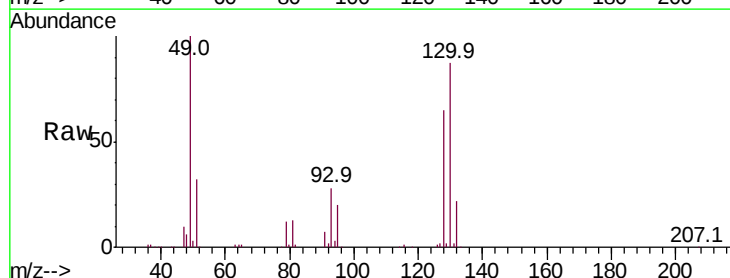
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



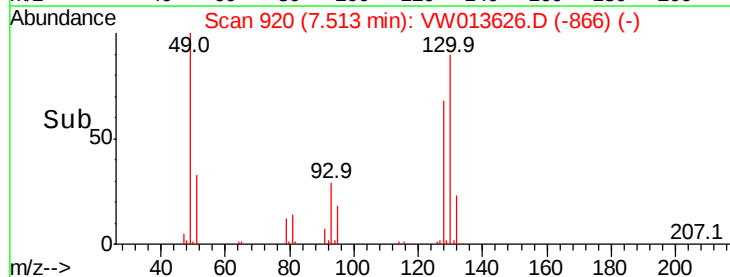
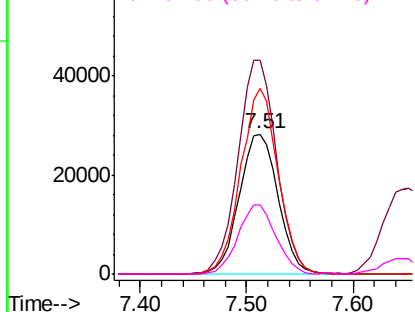
#23

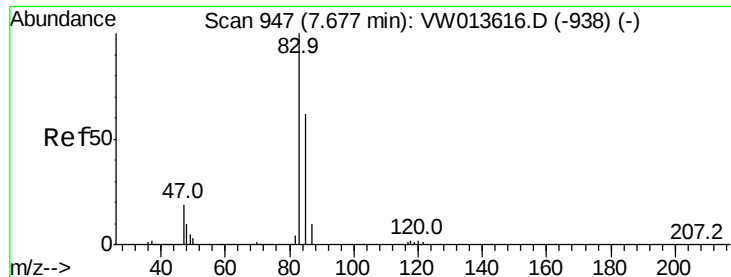
Bromochloromethane
Concen: 24.193 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

Tgt Ion: 128 Resp: 72409
Ion Ratio Lower Upper
128 100
49 152.8 106.3 197.3
130 132.6 93.2 173.2
51 49.7 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: 24.503 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.01 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

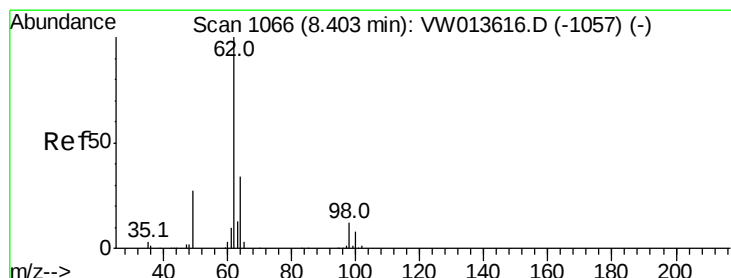
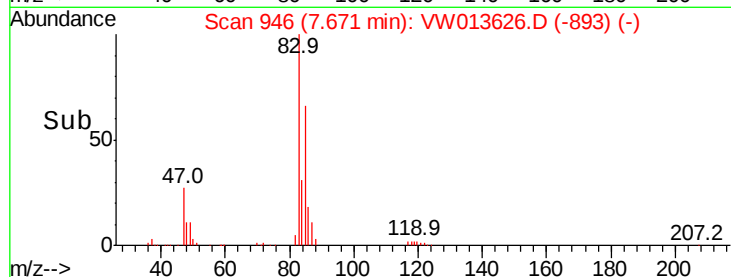
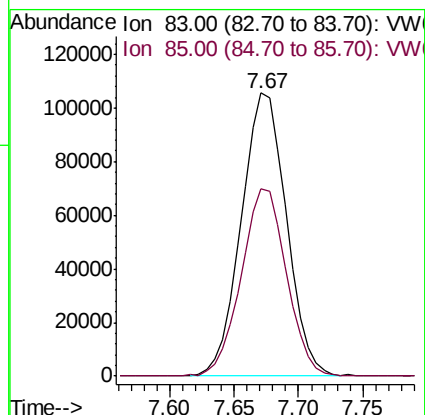
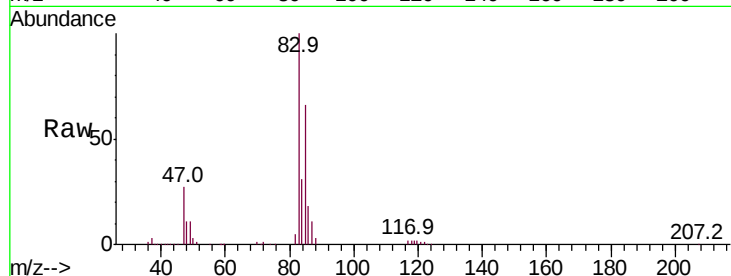
ClientSampleId :

Tot Ion: 83 Resp: 257022

Ion Ratio Lower Upper

83 100

85 66.1 46.1 85.7



#27

1,2-Dichloroethane

Concen: 23.949 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW013626.D

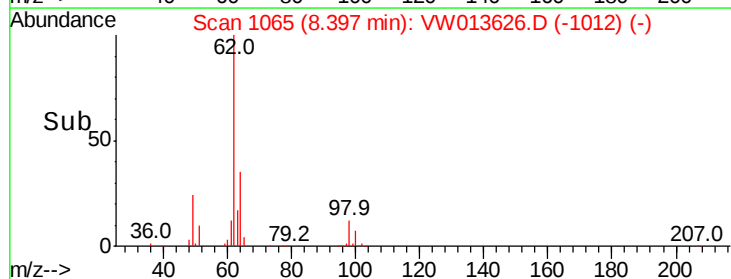
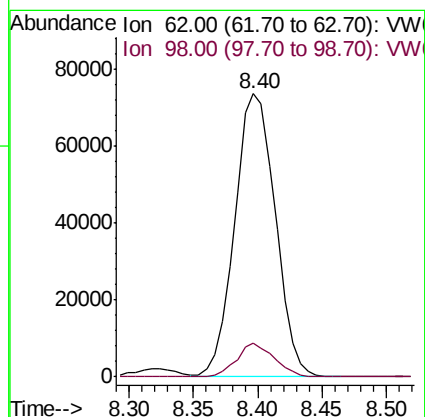
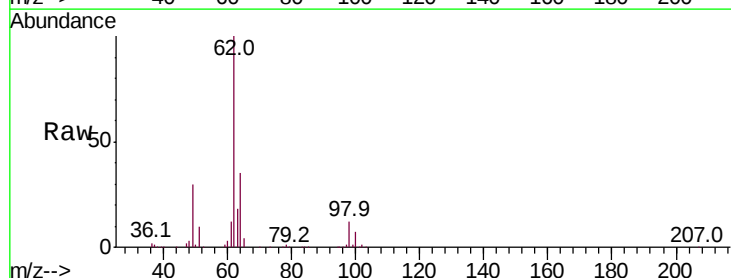
Acq: 21 Oct 2019 09:57

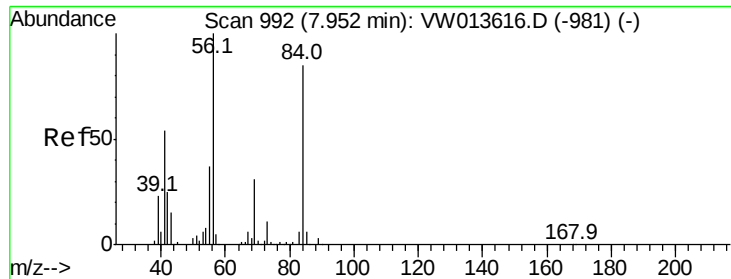
Tgt Ion: 62 Resp: 161007

Ion Ratio Lower Upper

62 100

98 11.7 9.6 14.4

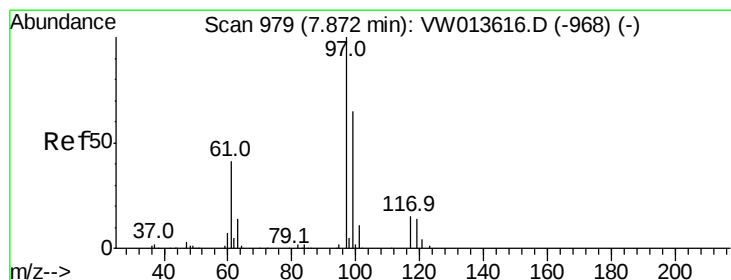
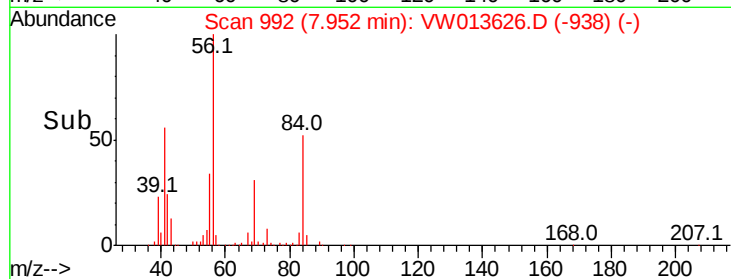
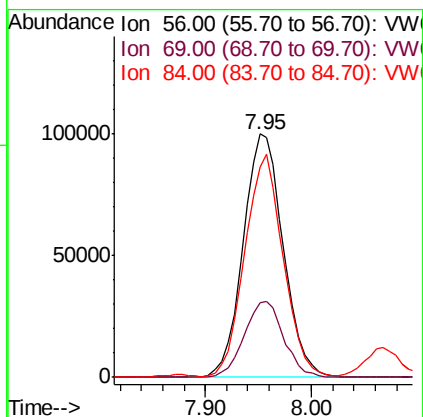
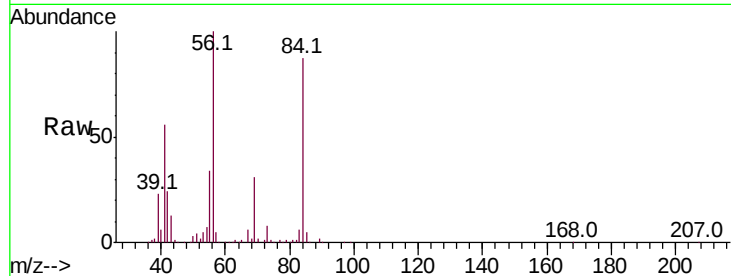




#30
Cyclohexane
Concen: 27.053 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

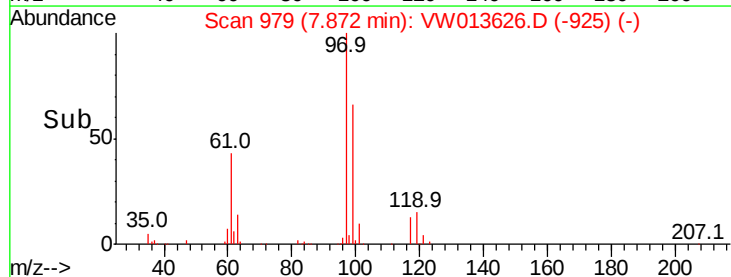
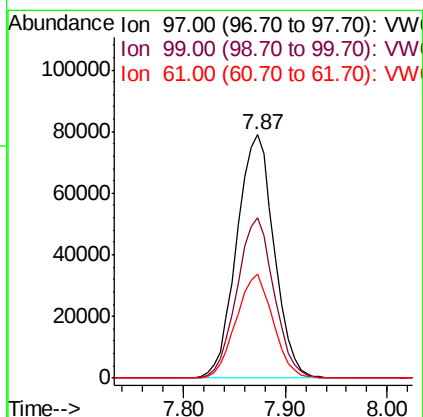
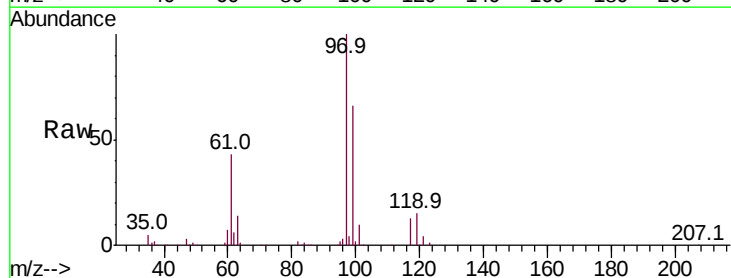
Instrument :
MSVOA_W
ClientSampled :

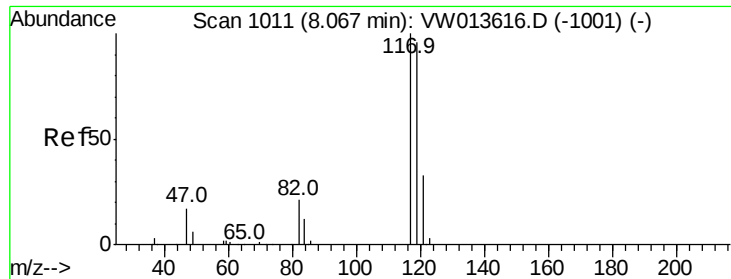
Tot Ion: 56 Resp: 262824
Ion Ratio Lower Upper
56 100
69 30.9 24.6 37.0
84 88.4 71.1 106.7



#31
1,1,1-Trichloroethane
Concen: 25.976 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

Tgt Ion: 97 Resp: 200908
Ion Ratio Lower Upper
97 100
99 65.2 51.7 77.5
61 42.0 33.8 50.8





#32

Carbon tetrachloride

Concen: 26.387 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

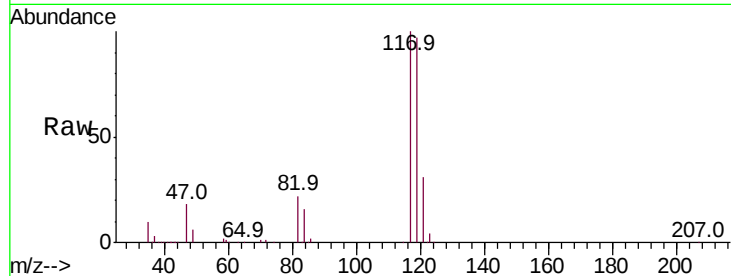
ClientSampleId :

Tot Ion:117 Resp: 198734

Ion Ratio Lower Upper

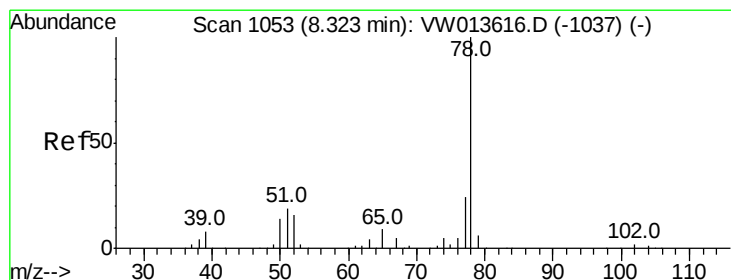
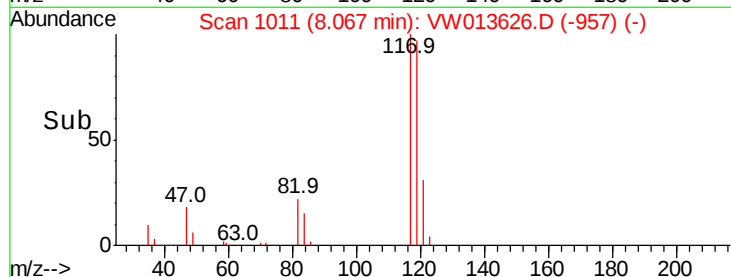
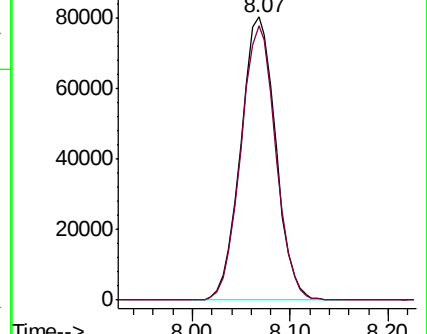
117 100

119 96.6 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: 25.800 ug/L

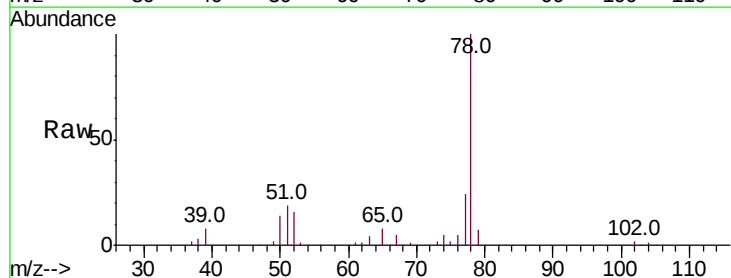
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

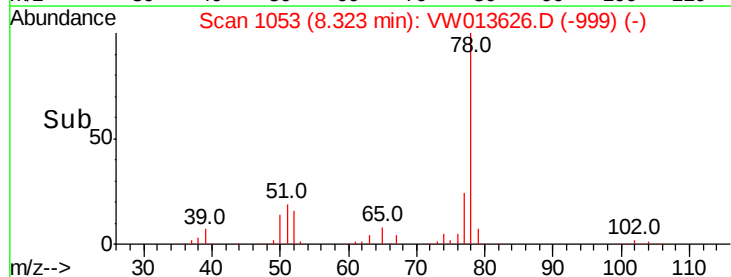
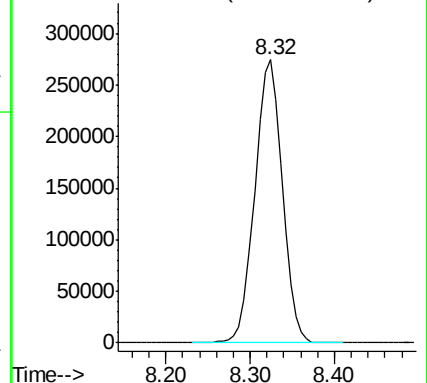
Lab File: VW013626.D

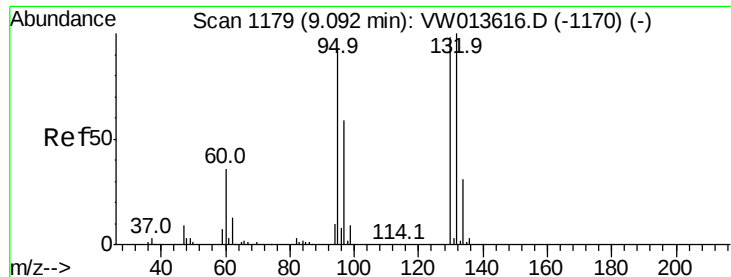
Acq: 21 Oct 2019 09:57

Tgt Ion: 78 Resp: 613882



Abundance Ion 78.00 (77.70 to 78.70): VW

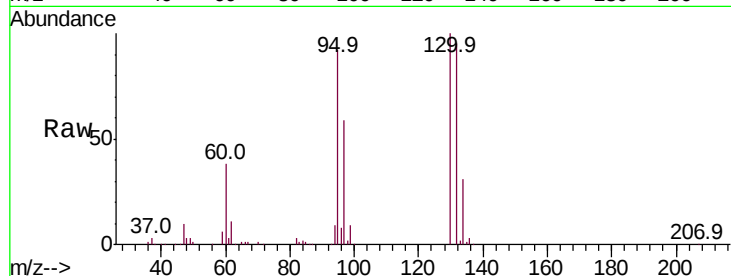




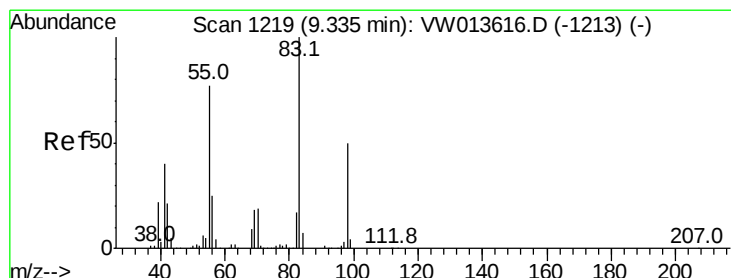
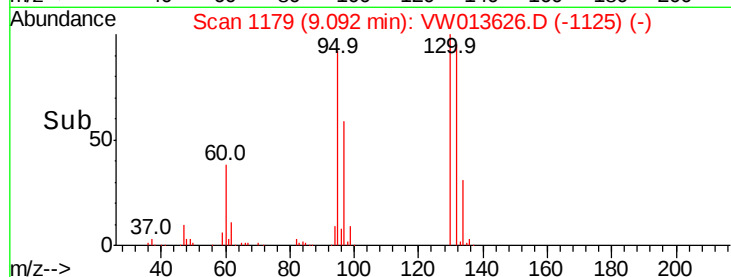
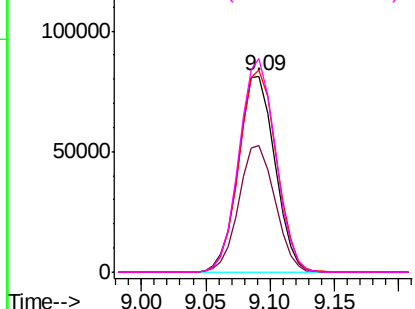
#35
 Trichloroethene
 Concen: 26.309 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 95 Resp: 160611
 Ion Ratio Lower Upper
 95 100
 97 64.3 45.8 85.2
 132 104.6 74.3 138.1
 130 107.7 76.6 142.3

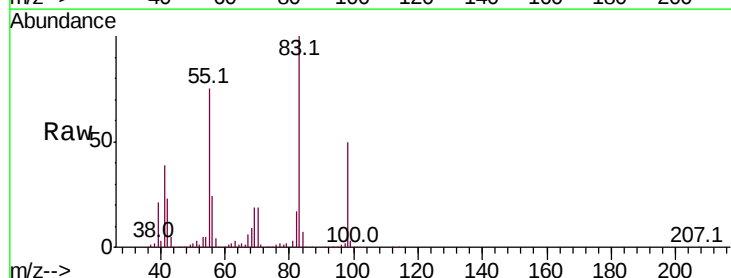


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

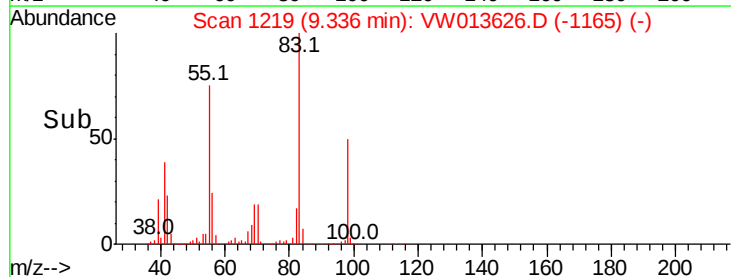
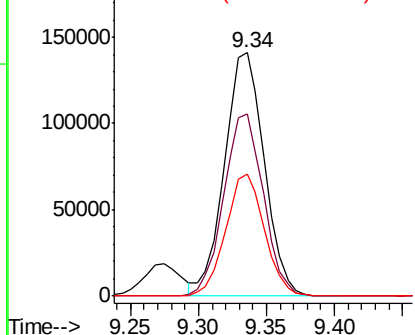


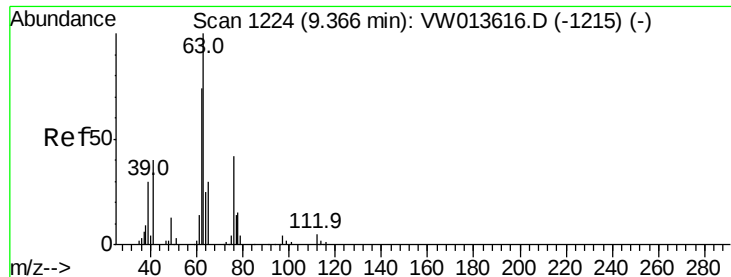
#36
 Methylcyclohexane
 Concen: 26.721 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Tgt Ion: 83 Resp: 287525
 Ion Ratio Lower Upper
 83 100
 55 74.5 60.2 90.4
 98 48.7 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

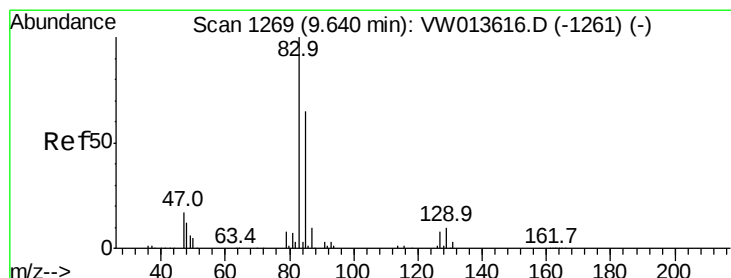
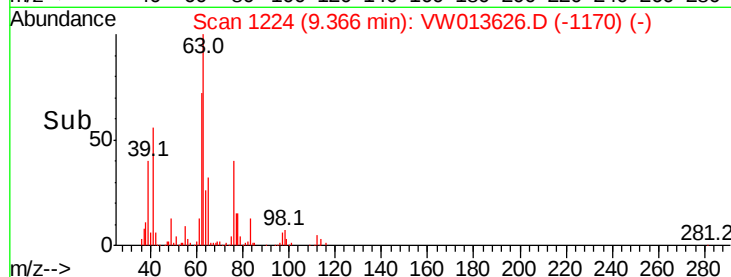
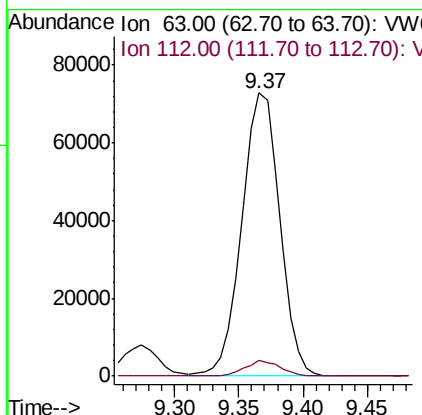
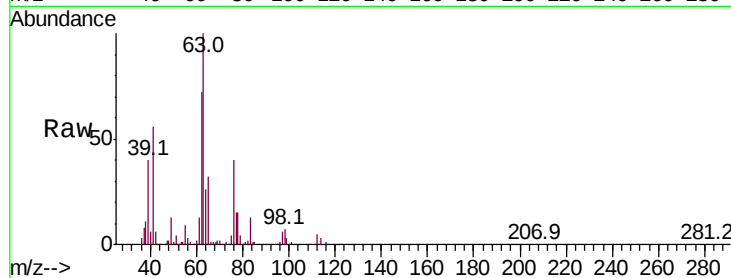




#40
 1,2-Dichloropropane
 Concen: 25.514 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

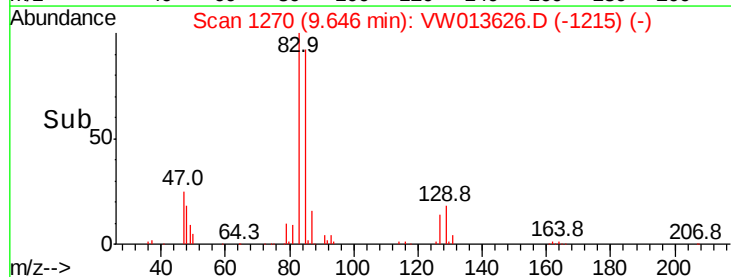
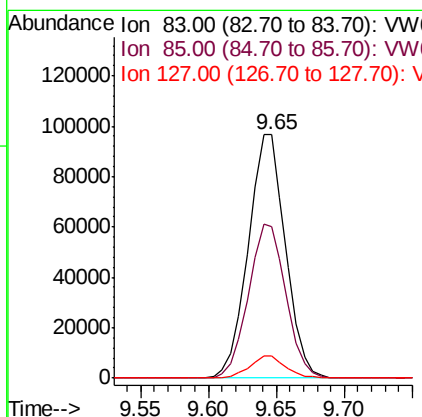
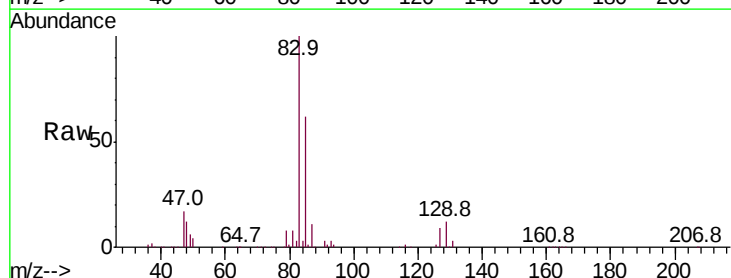
Instrument :
 MSVOA_W
 ClientSampleId :

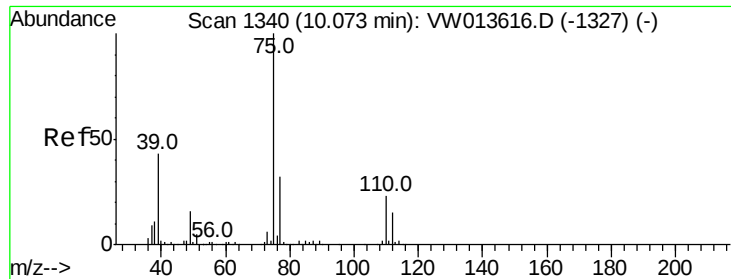
Tot Ion: 63 Resp: 148431
 Ion Ratio Lower Upper
 63 100
 112 5.1 3.9 5.9



#41
 Bromodichloromethane
 Concen: 25.975 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Tgt Ion: 83 Resp: 185160
 Ion Ratio Lower Upper
 83 100
 85 62.2 45.8 85.0
 127 9.2 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 25.586 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

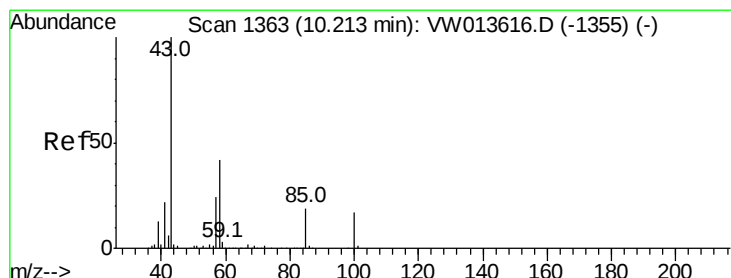
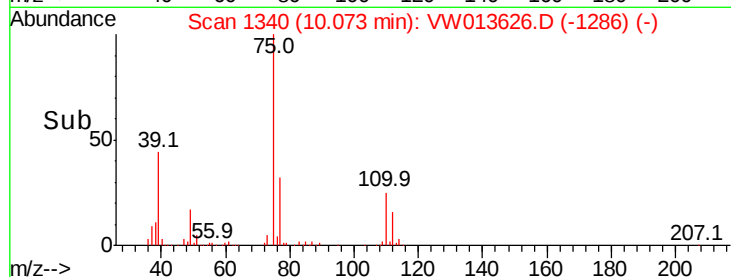
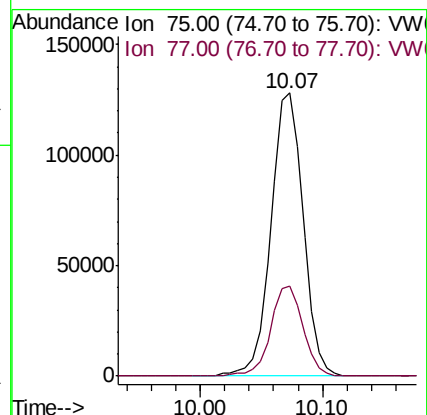
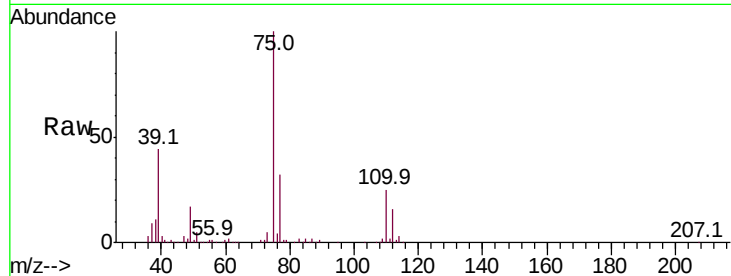
ClientSampled :

Tot Ion: 75 Resp: 235015

Ion Ratio Lower Upper

75 100

77 31.7 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 47.414 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

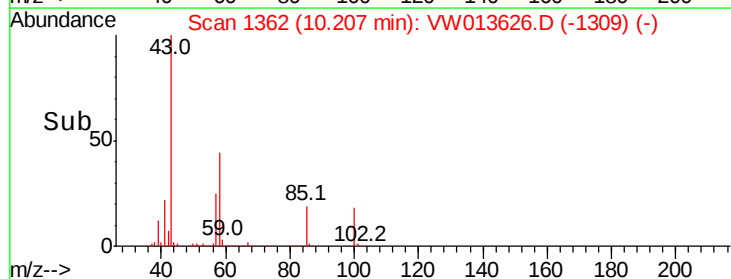
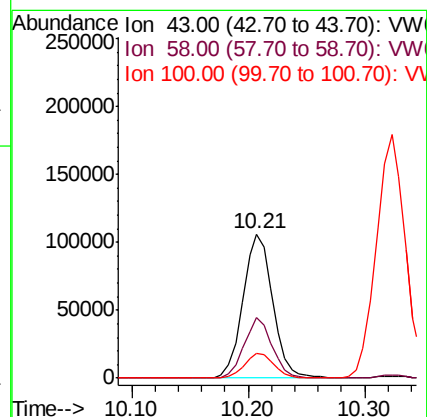
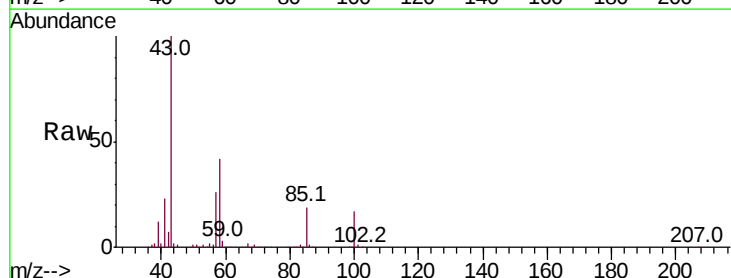
Tgt Ion: 43 Resp: 188199

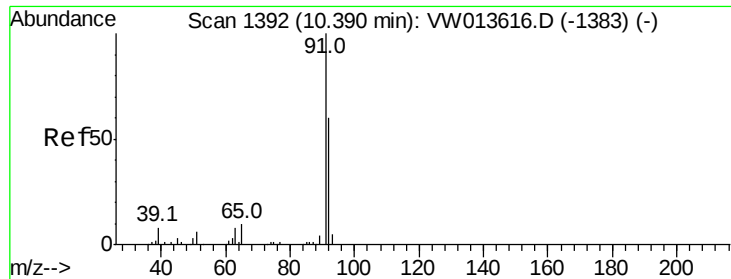
Ion Ratio Lower Upper

43 100

58 39.7 32.8 49.2

100 17.1 13.7 20.5





#44

Toluene

Concen: 25.959 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

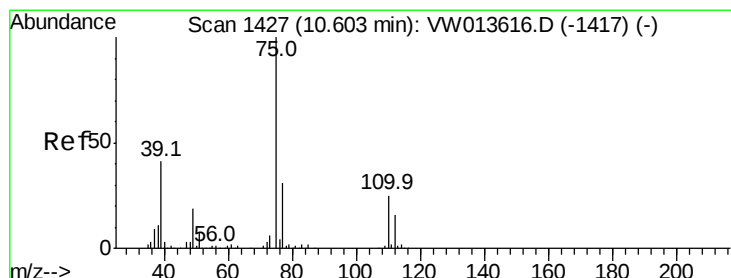
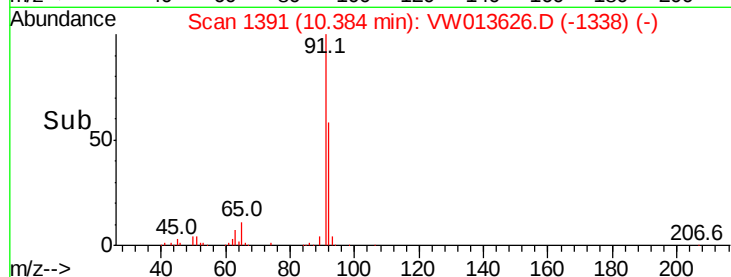
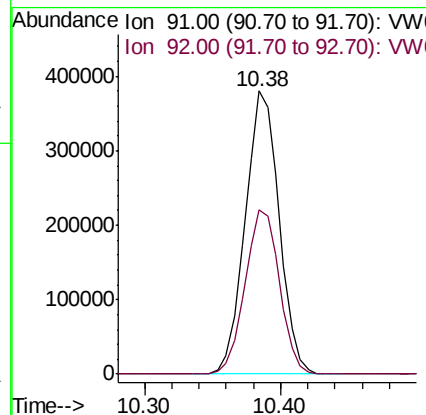
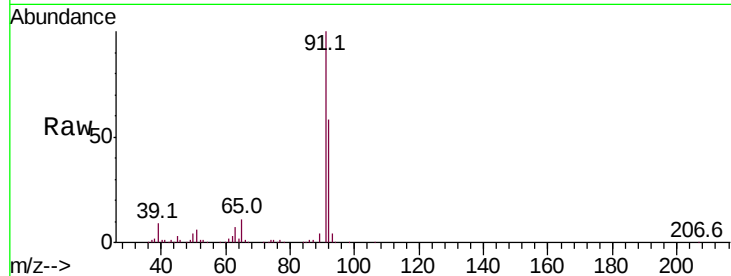
ClientSampleId :

Tot Ion: 91 Resp: 663617

Ion Ratio Lower Upper

91 100

92 58.3 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 25.688 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013626.D

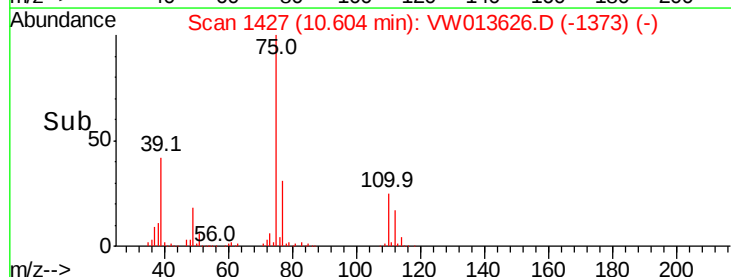
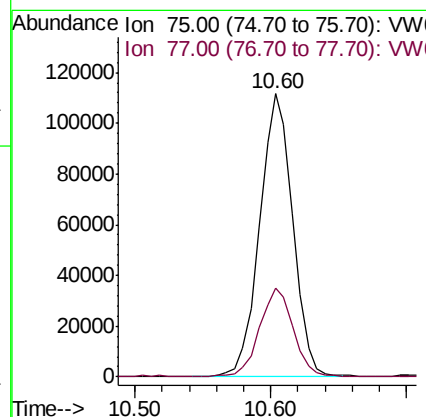
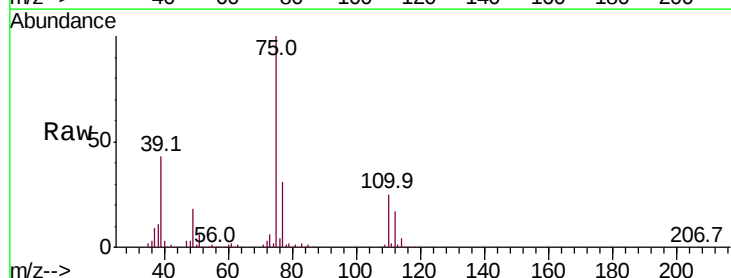
Acq: 21 Oct 2019 09:57

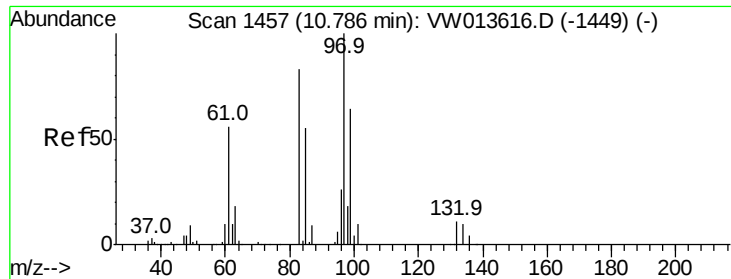
Tgt Ion: 75 Resp: 190460

Ion Ratio Lower Upper

75 100

77 31.3 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 24.227 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 108702

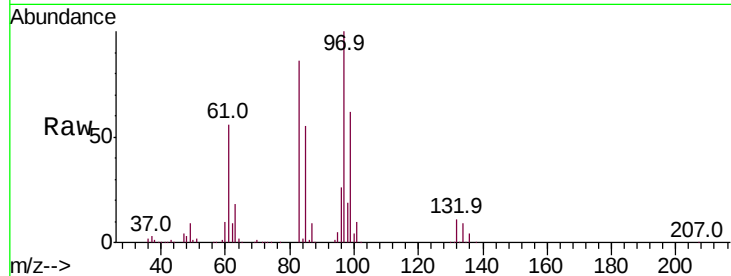
Ion Ratio Lower Upper

97 100

83 86.2 57.7 107.3

85 54.9 38.6 71.6

99 61.7 44.7 82.9



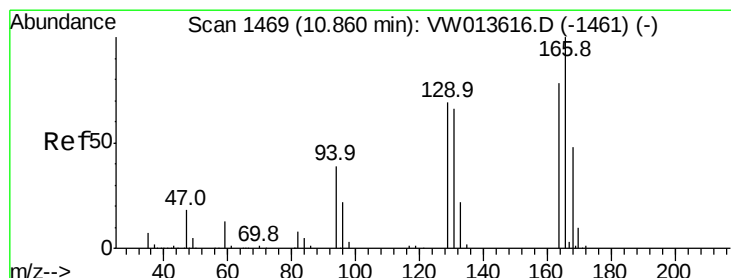
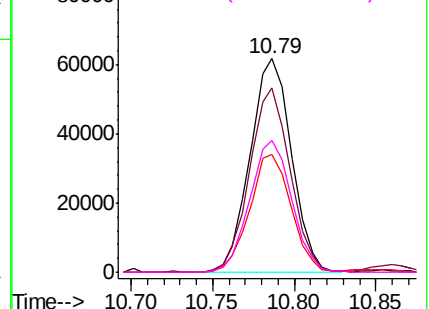
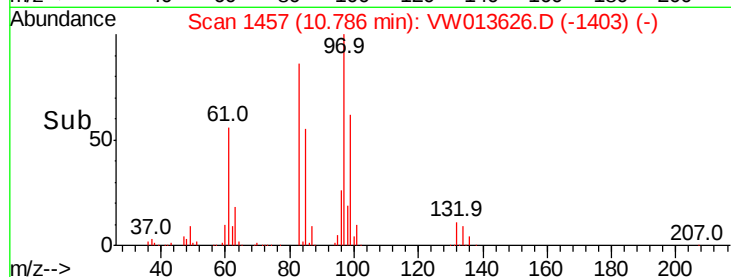
Abundance

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: 25.941 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Tgt Ion:164 Resp: 144962

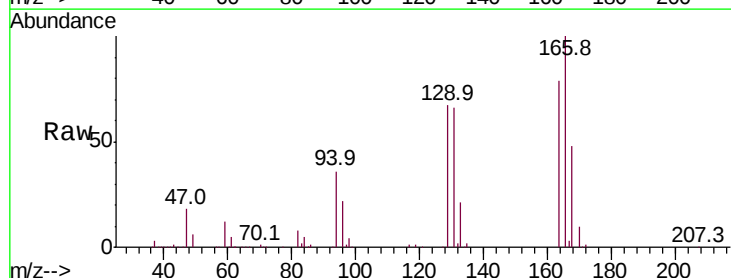
Ion Ratio Lower Upper

164 100

129 85.6 61.8 114.8

131 83.9 59.2 110.0

166 127.3 89.2 165.8



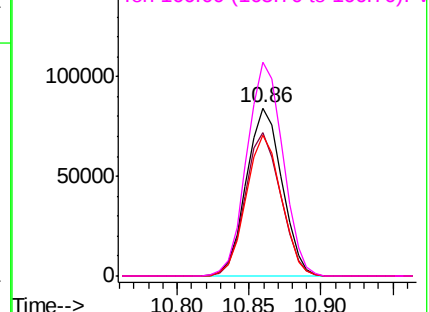
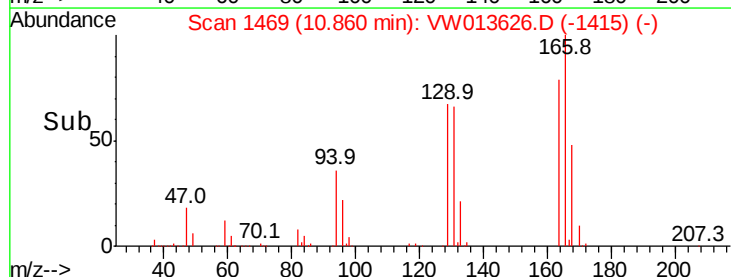
Abundance

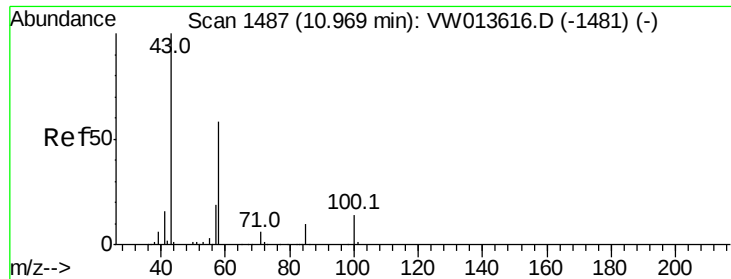
Ion 164.00 (163.70 to 164.70): V

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: 51.496 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 43 Resp: 145011

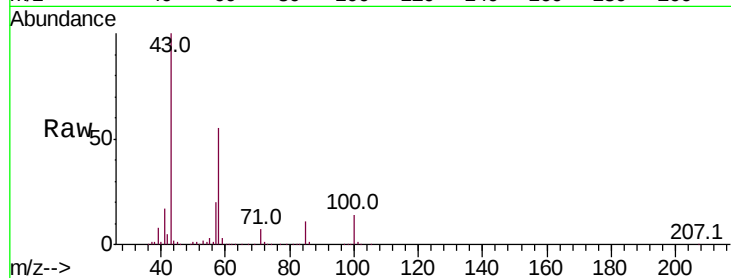
Ion Ratio Lower Upper

43 100

58 56.5 45.8 68.6

57 19.9 15.4 23.2

100 13.8 10.8 16.2

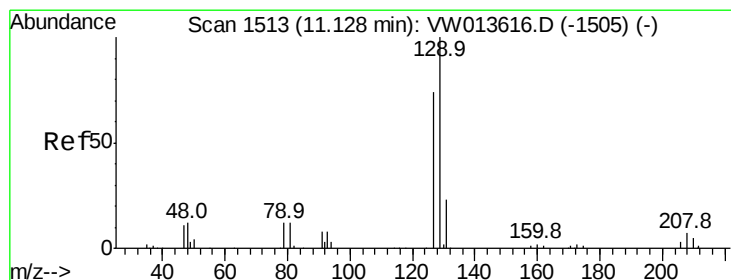
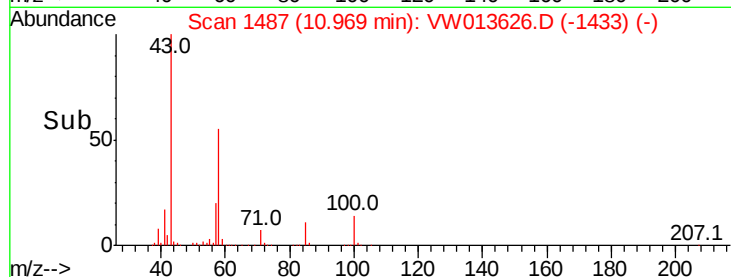
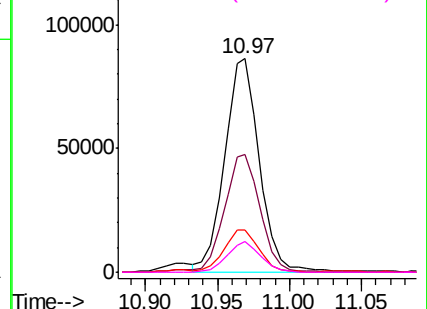


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 24.901 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW013626.D

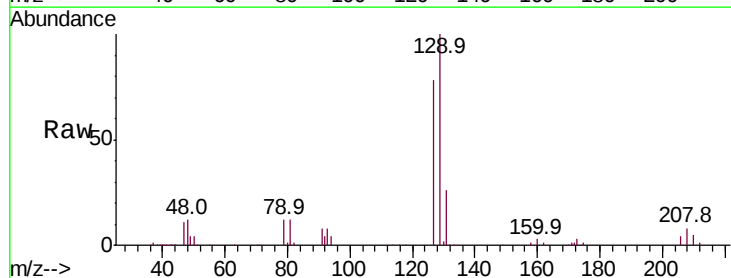
Acq: 21 Oct 2019 09:57

Tgt Ion: 129 Resp: 131856

Ion Ratio Lower Upper

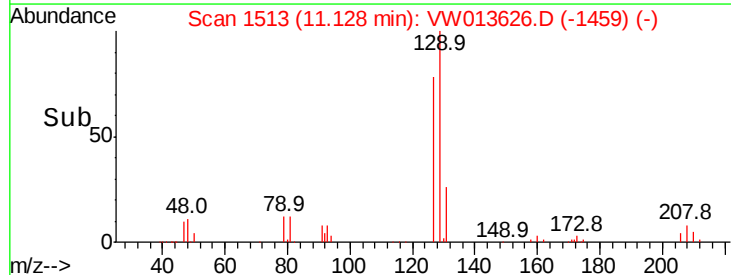
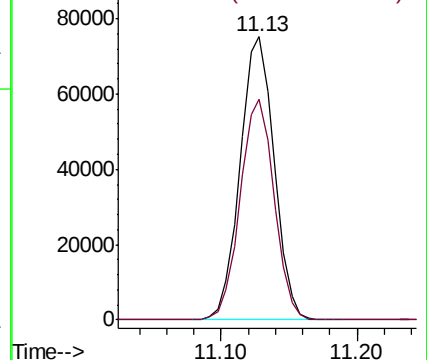
129 100

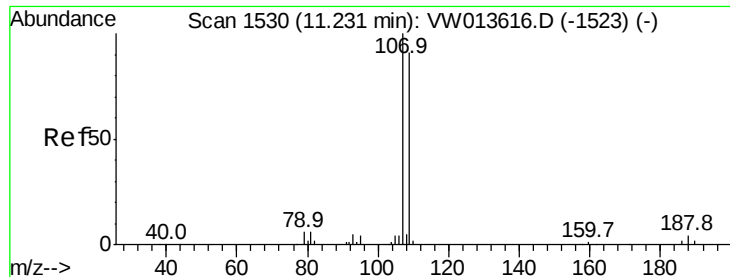
127 78.1 51.4 95.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

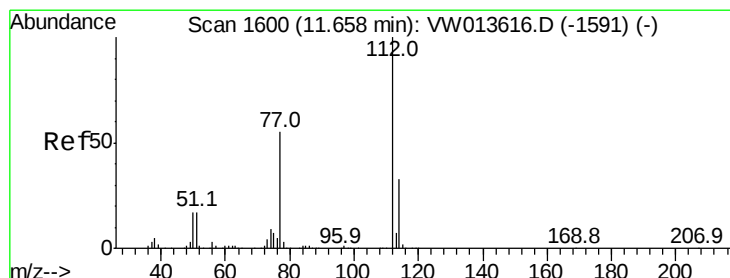
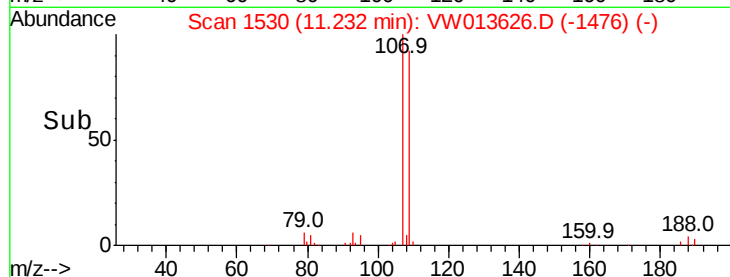
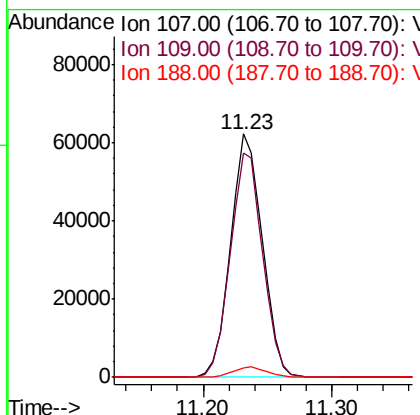
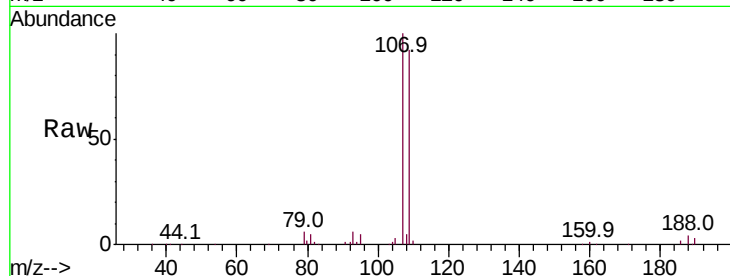




#51
1,2-Dibromoethane
Concen: 24.471 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

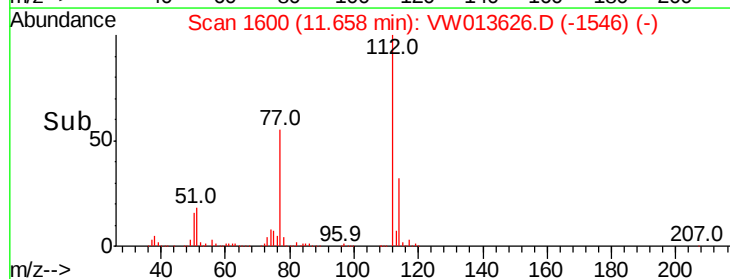
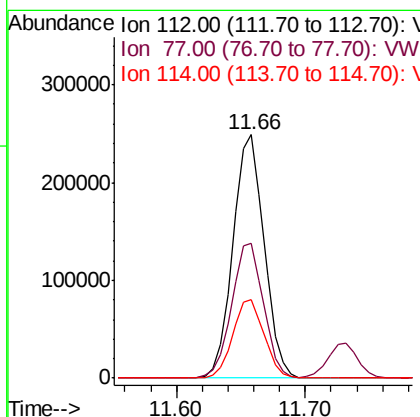
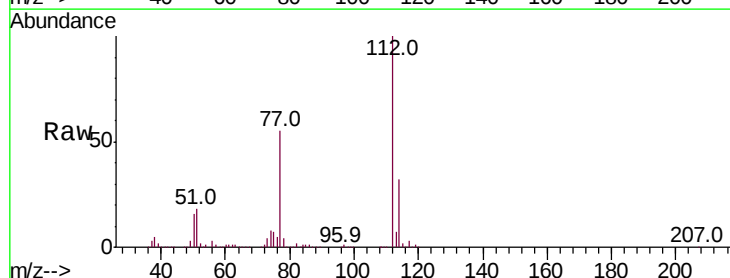
Instrument :
MSVOA_W
ClientSampleId :

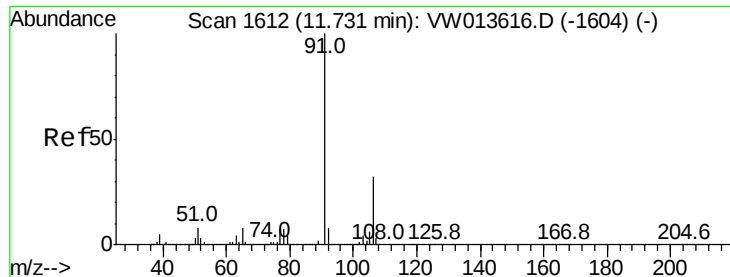
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.1	64.0	118.8
188	3.9	3.4	5.2



#52
Chlorobenzene
Concen: 25.545 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

Tgt Ion	Ratio	Lower	Upper
112	100		
77	55.3	44.1	66.1
114	32.1	23.4	43.4

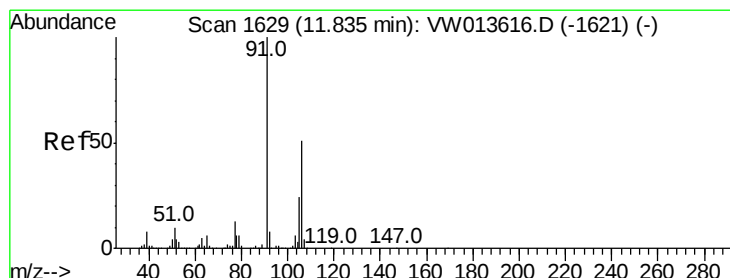
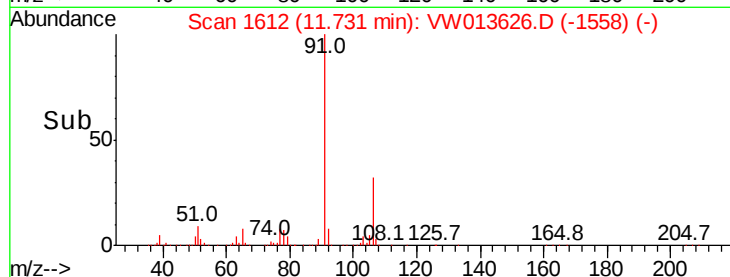
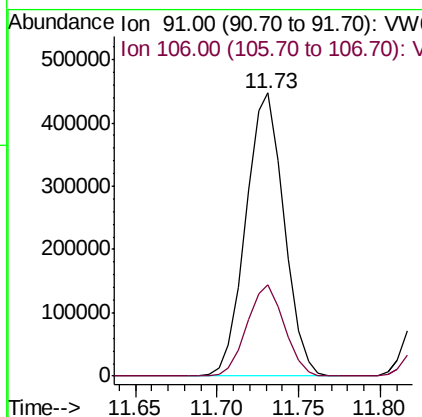
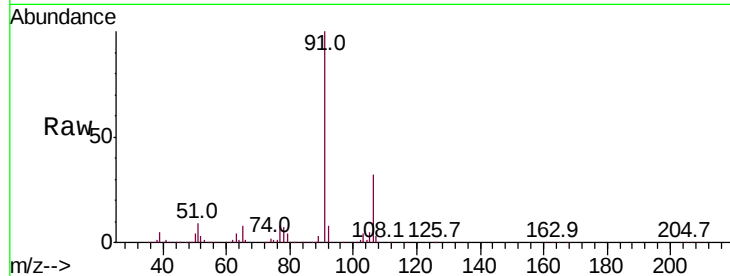




#53
Ethylbenzene
Concen: 25.791 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

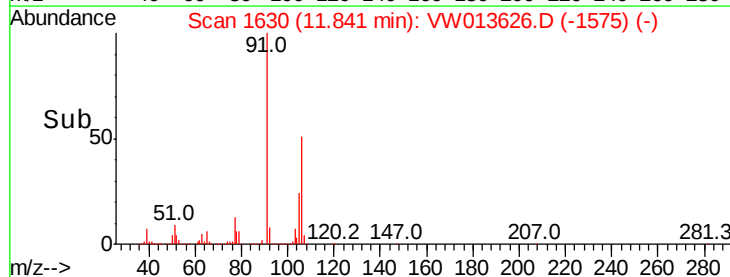
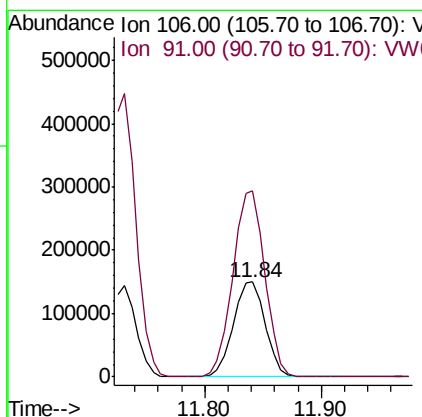
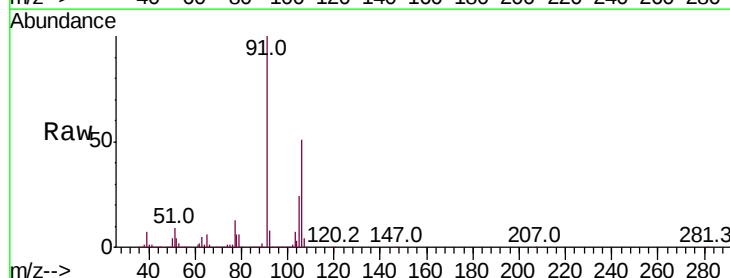
Instrument :
MSVOA_W
ClientSampleId :

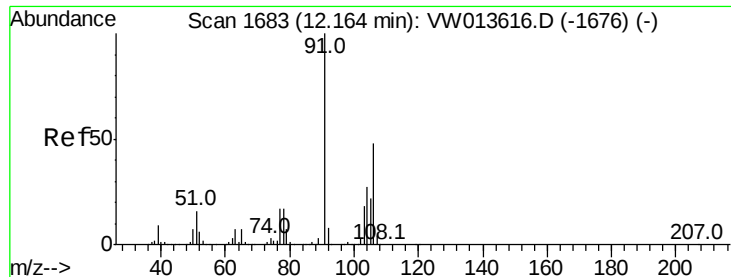
Tot Ion: 91 Resp: 728475
Ion Ratio Lower Upper
91 100
106 32.4 22.3 41.3



#54
m,p-Xylene
Concen: 26.273 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW013626.D
Acq: 21 Oct 2019 09:57

Tgt Ion: 106 Resp: 286769
Ion Ratio Lower Upper
106 100
91 196.8 137.7 255.7





#55

o-xylene

Concen: 25.740 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

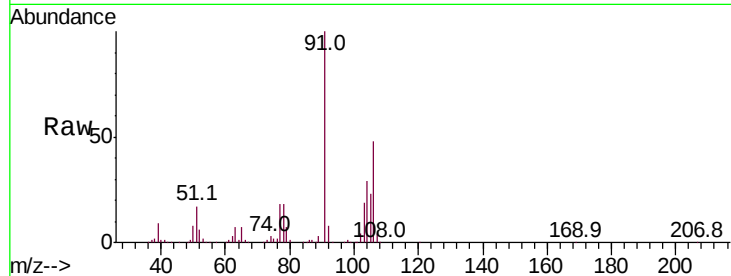
ClientSampled :

Tot Ion:106 Resp: 266610

Ion Ratio Lower Upper

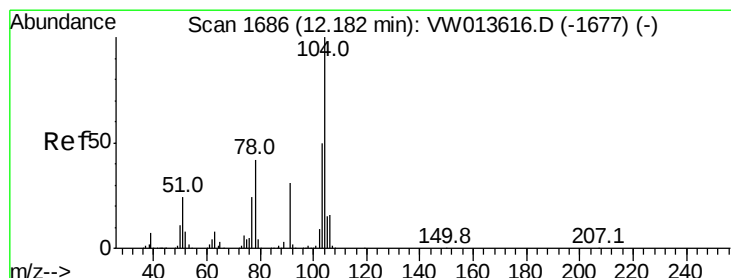
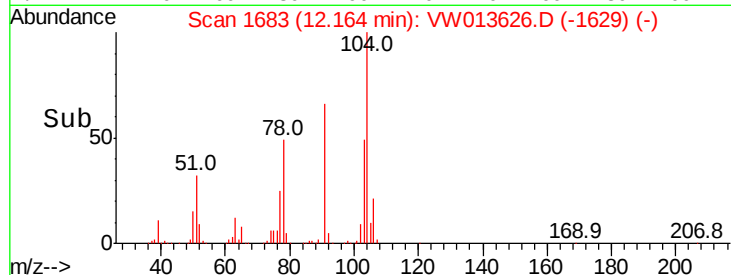
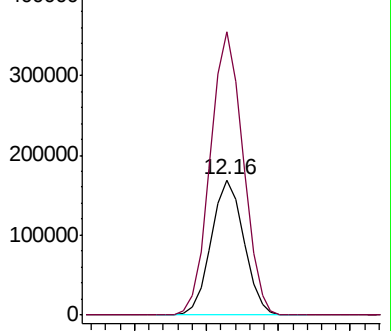
106 100

91 209.4 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.961 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VW013626.D

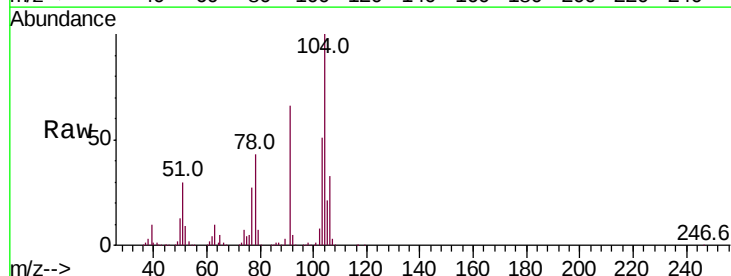
Acq: 21 Oct 2019 09:57

Tgt Ion:104 Resp: 459995

Ion Ratio Lower Upper

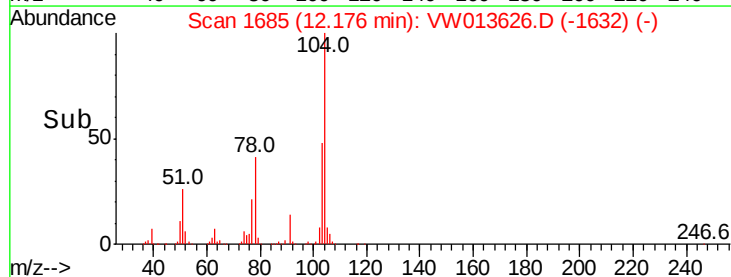
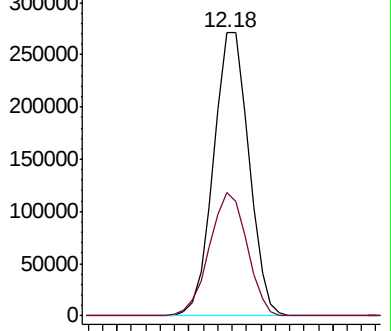
104 100

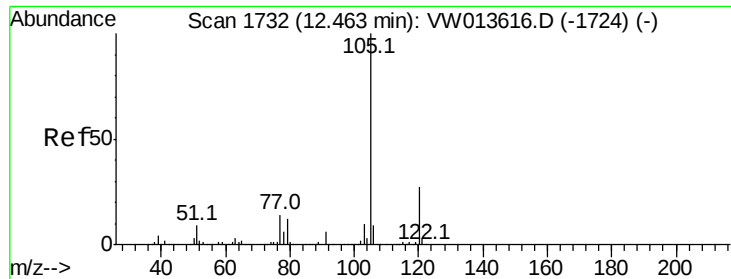
78 43.5 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.102 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

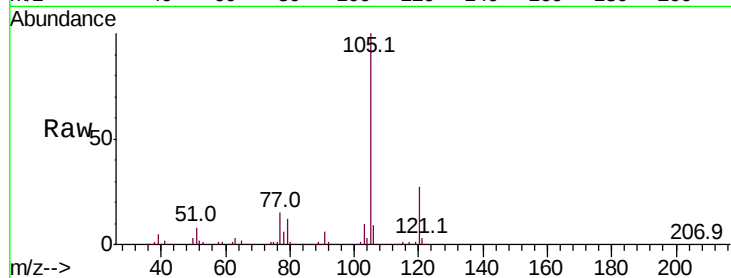
Tot Ion:105 Resp: 725183

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

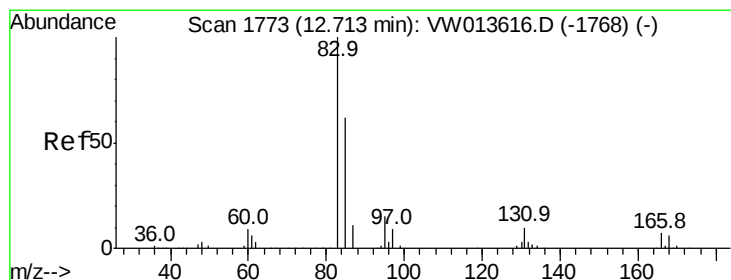
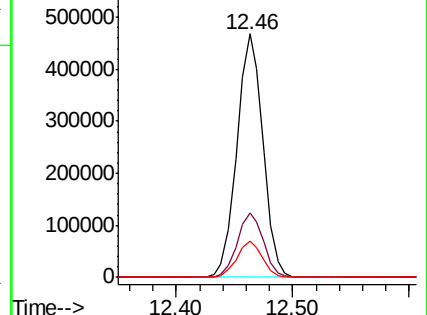
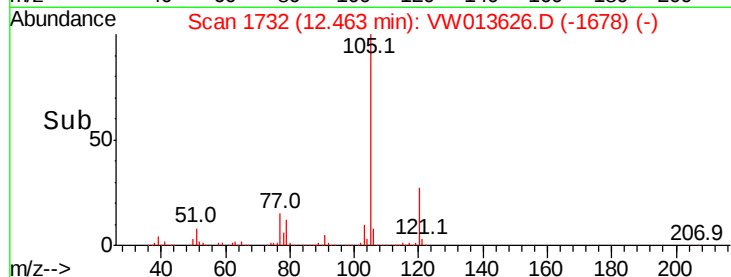
77 14.5 11.4 17.0



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: 24.815 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

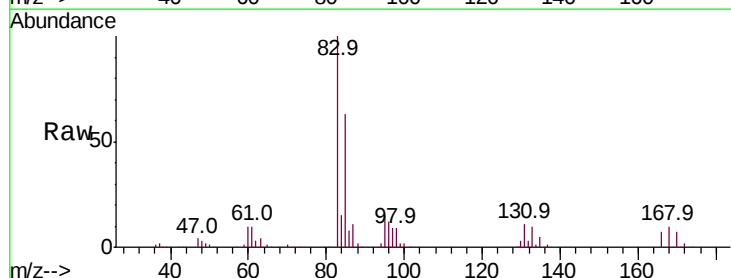
Tgt Ion: 83 Resp: 130497

Ion Ratio Lower Upper

83 100

85 62.7 44.9 83.3

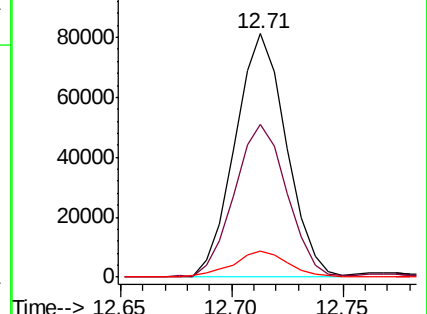
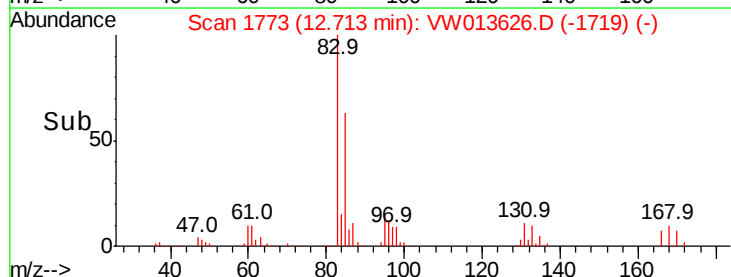
131 10.5 8.6 13.0

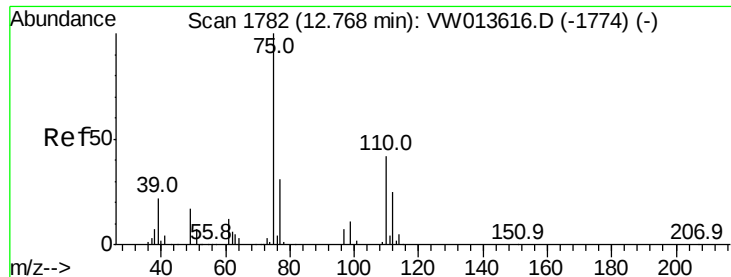


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.631 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

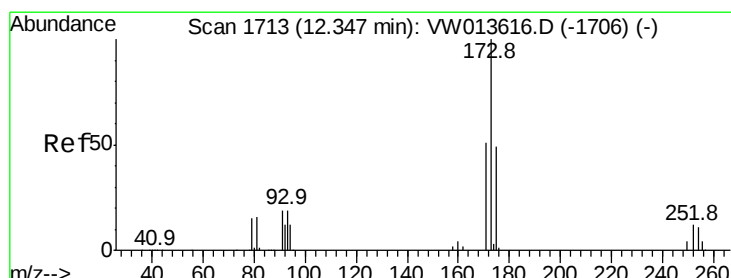
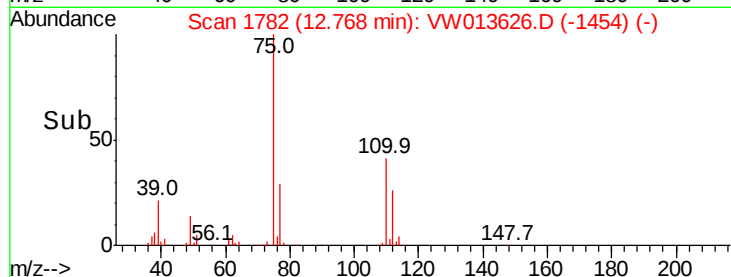
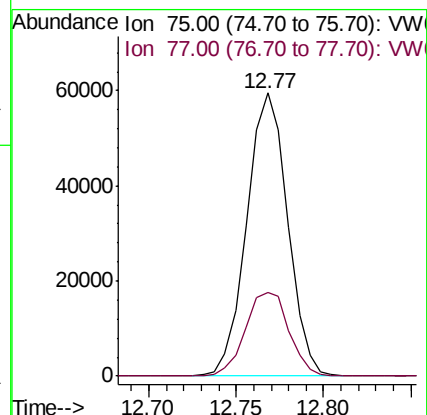
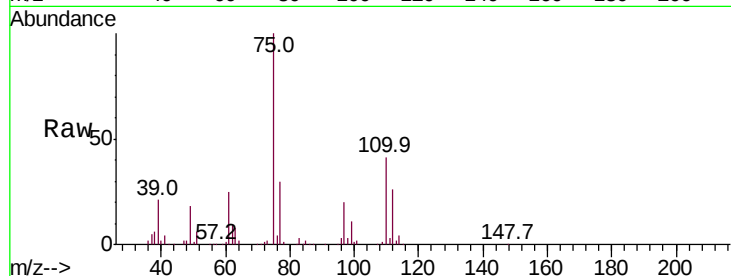
ClientSampled :

Tot Ion: 75 Resp: 96594

Ion Ratio Lower Upper

75 100

77 31.9 26.4 39.6



#62

Bromoform

Concen: 24.527 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

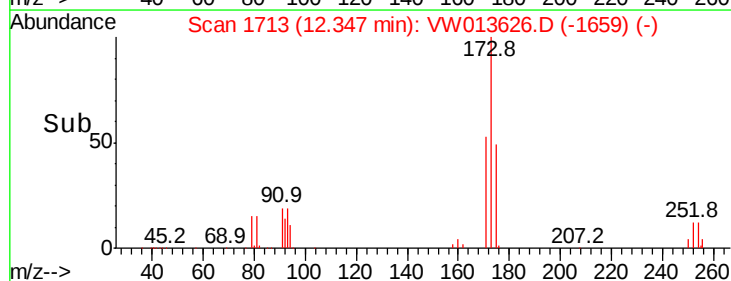
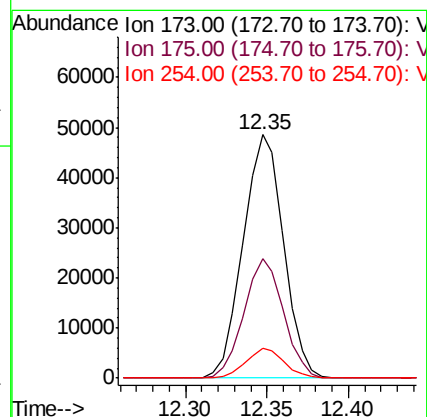
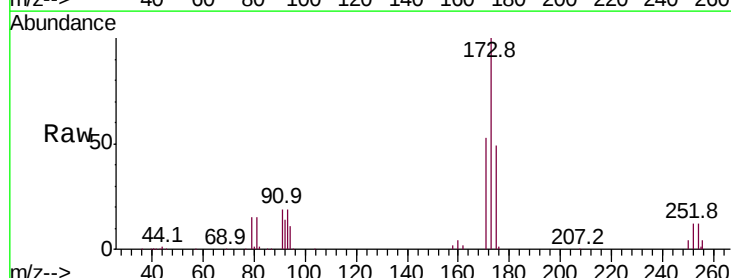
Tgt Ion: 173 Resp: 83876

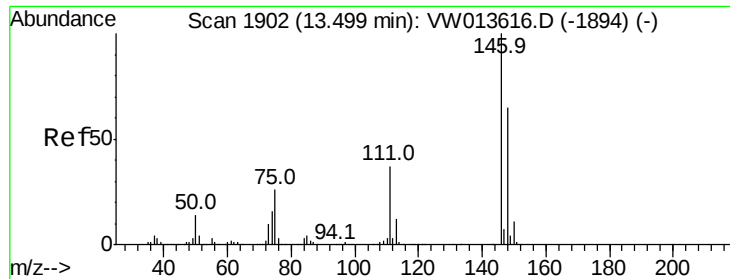
Ion Ratio Lower Upper

173 100

175 47.9 39.1 58.7

254 11.6 9.6 14.4

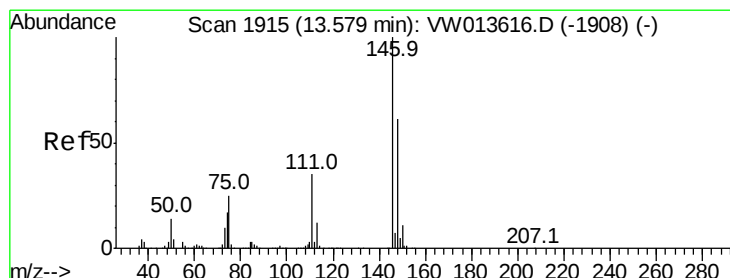
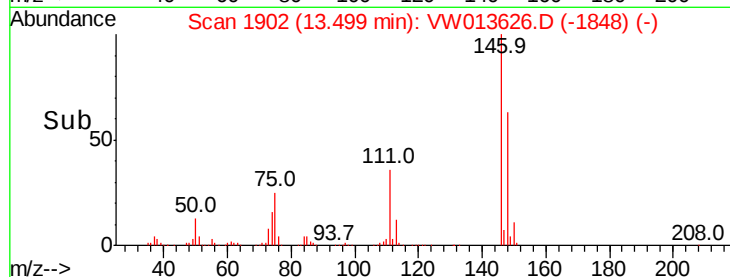
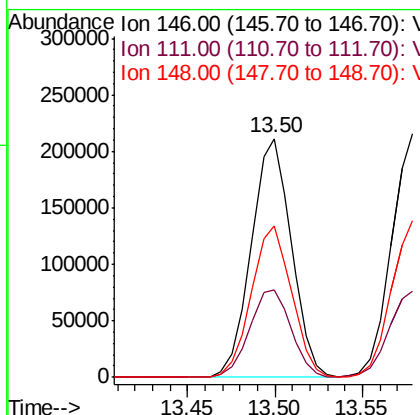
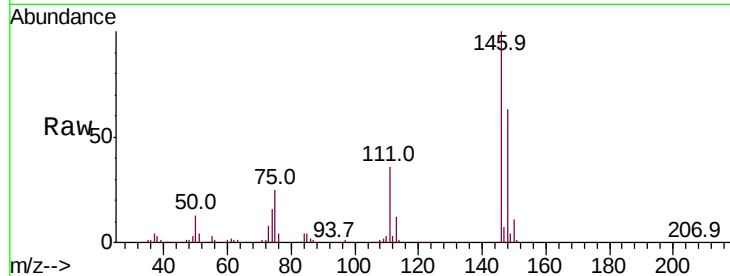




#63
 1,3-Dichlorobenzene
 Concen: 24.923 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

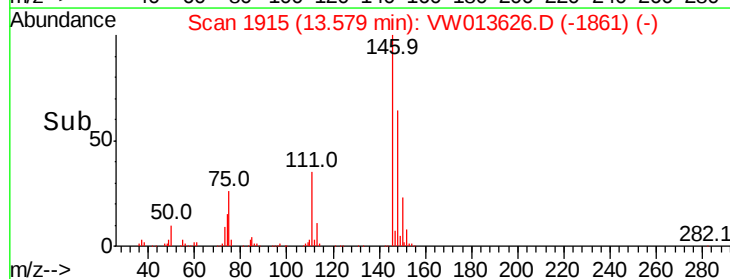
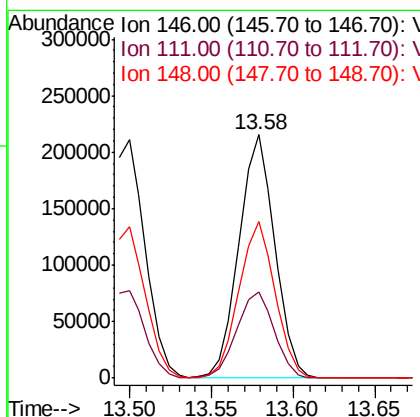
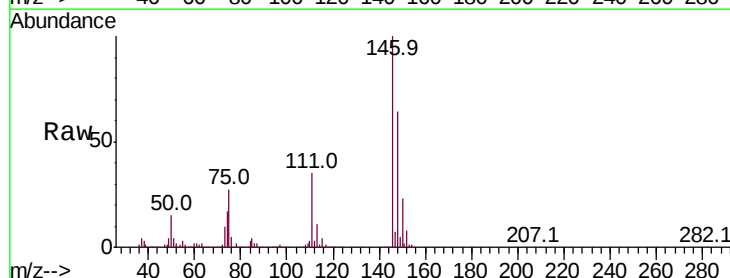
Instrument :
 MSVOA_W
 ClientSampleId :

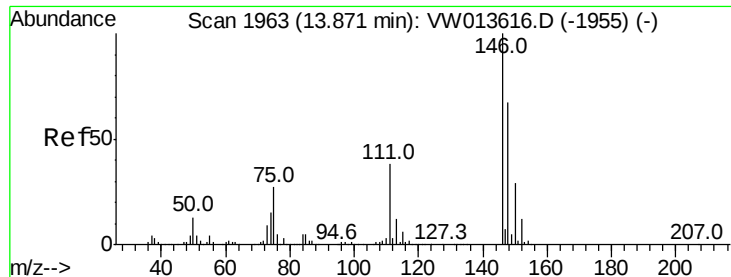
Tot Ion:146 Resp: 337452
 Ion Ratio Lower Upper
 146 100
 111 36.3 26.1 48.5
 148 63.3 45.8 85.2



#64
 1,4-Dichlorobenzene
 Concen: 24.267 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Tgt Ion:146 Resp: 330169
 Ion Ratio Lower Upper
 146 100
 111 35.3 24.8 46.0
 148 64.2 43.0 79.8





#65

1,2-Dichlorobenzene

Concen: 24.762 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

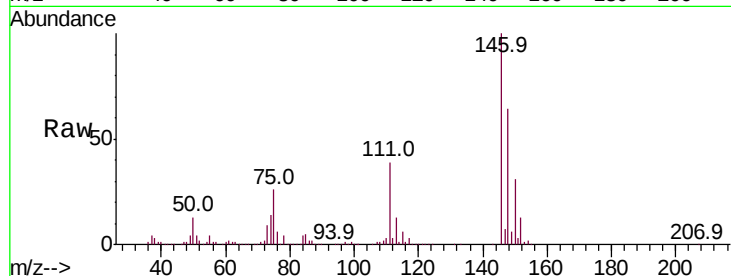
Tot Ion:146 Resp: 303776

Ion Ratio Lower Upper

146 100

111 39.2 30.7 46.1

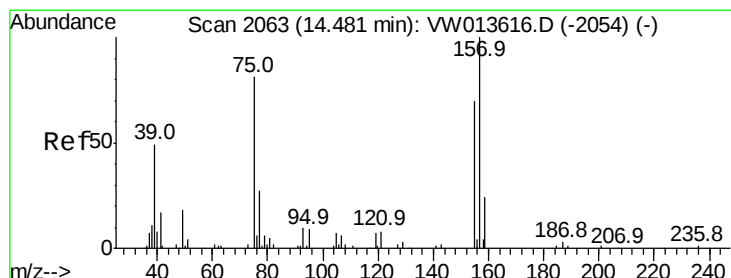
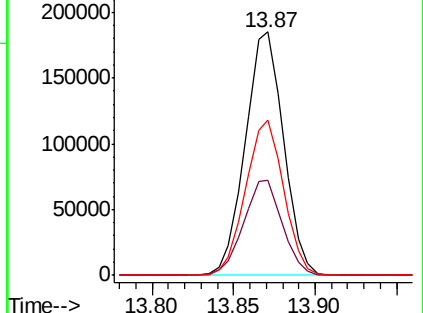
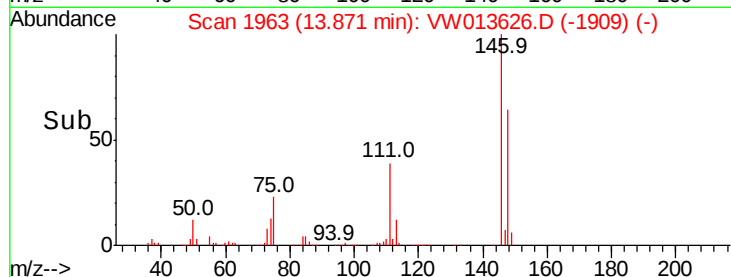
148 63.9 53.3 79.9



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: 23.976 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

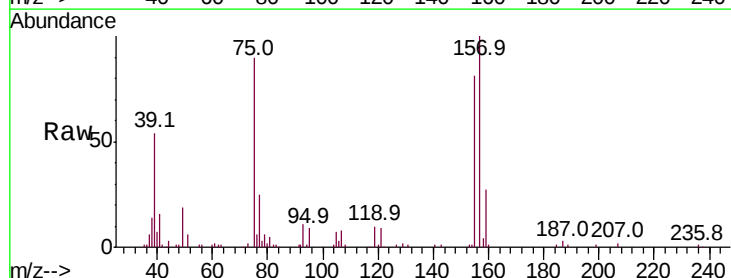
Tgt Ion: 75 Resp: 20217

Ion Ratio Lower Upper

75 100

157 111.6 99.4 149.0

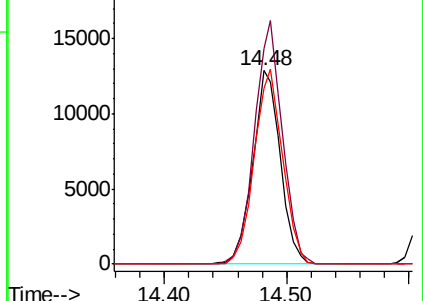
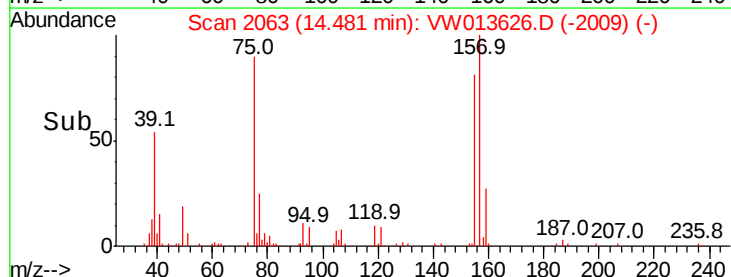
155 90.6 69.7 104.5

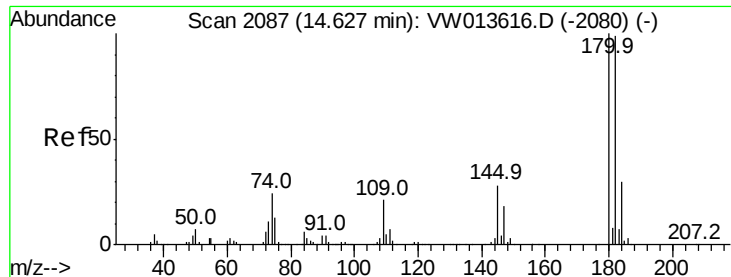


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

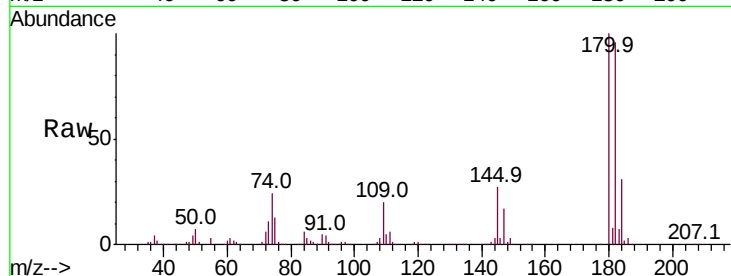




#67
 1,3,5-Trichlorobenzene
 Concen: 25.938 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.2	114.4
184	29.8	24.1	36.1
145	26.8	21.8	32.8



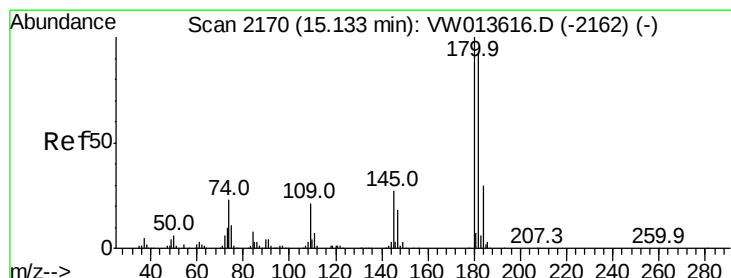
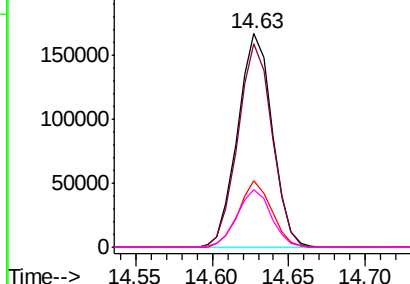
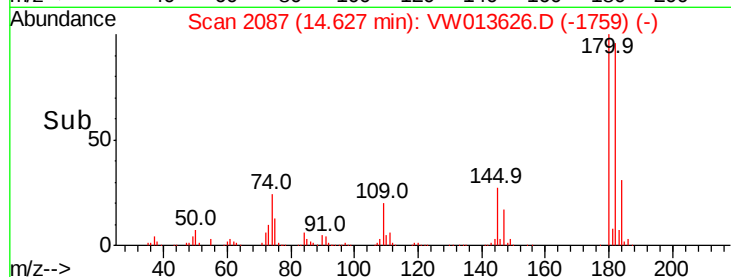
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

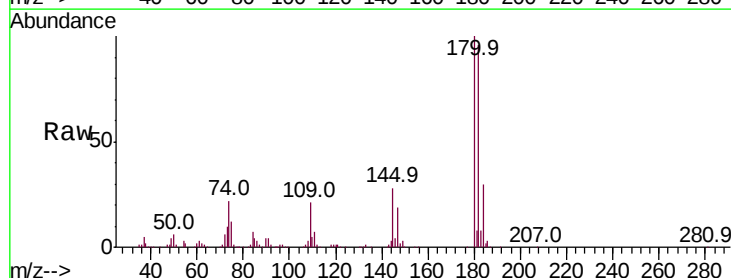
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.831 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013626.D
 Acq: 21 Oct 2019 09:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.8	113.8
145	27.2	22.6	34.0

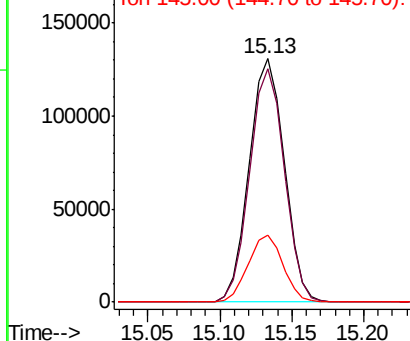
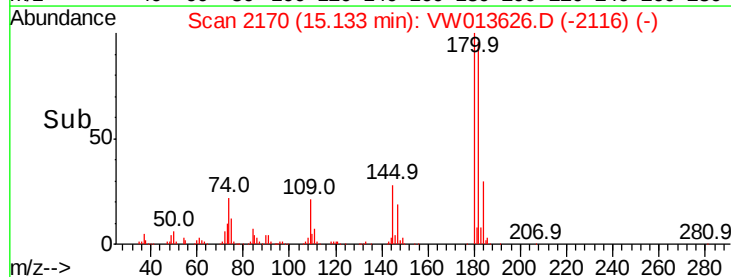


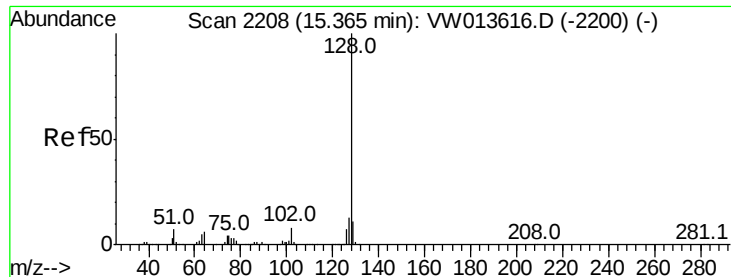
Abundance

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: 25.687 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

Instrument :

MSVOA_W

ClientSampleId :

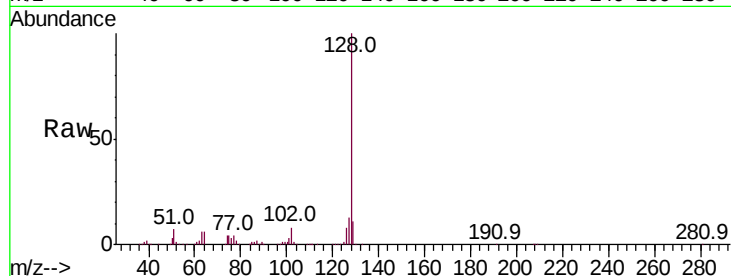
Tot Ion:128 Resp: 397748

Ion Ratio Lower Upper

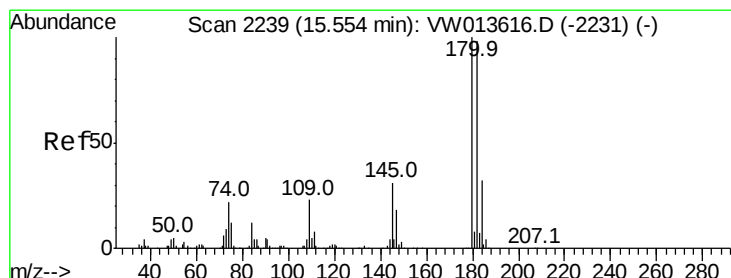
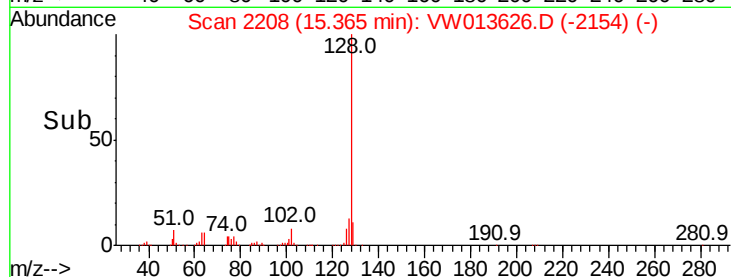
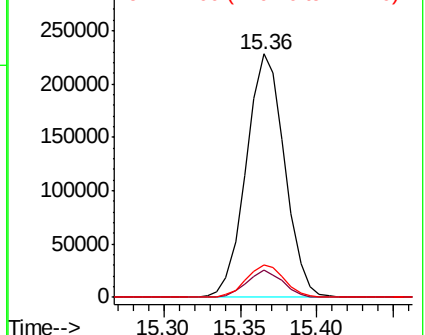
128 100

129 10.6 8.6 13.0

127 13.3 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: 25.327 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013626.D

Acq: 21 Oct 2019 09:57

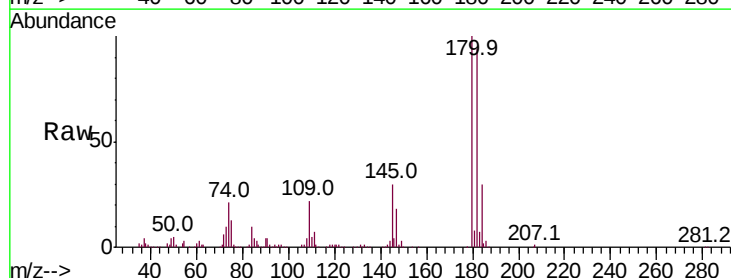
Tgt Ion:180 Resp: 193820

Ion Ratio Lower Upper

180 100

182 96.9 77.0 115.4

145 29.9 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

