

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122819\
 Data File : VW014490.D
 Acq On : 28 Dec 2019 11:02
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Quant Time: Dec 30 03:12:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Dec 28 03:24:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1334981	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1148226	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	542435	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	433740	23.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.20%
7) Chloroethane-d5	2.89	69	348812	25.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.64%
10) 1,1-Dichloroethene-d2	4.01	63	846301	24.58	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.32%
20) 2-Butanone-d5	7.07	46	199591	44.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.14%
24) Chloroform-d	7.64	84	771136	25.11	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.44%
26) 1,2-Dichloroethane-d4	8.30	65	368714	23.13	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.52%
29) Benzene-d6	8.27	84	1662406	27.23	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	108.92%
33) 1,2-Dichloropropane-d6	9.27	67	494519	26.94	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	107.76%
37) Toluene-d8	10.32	98	1529177	27.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	110.52%
38) trans-1,3-Dichloropropene-	10.57	79	196457	25.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.64%
39) 2-Hexanone-d5	10.92	63	152242	48.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.00%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	330612	23.98	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.92%
61) 1,2-Dichlorobenzene-d4	13.85	152	481663	26.95	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	107.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	263570	22.070 ug/L	99
3) Chloromethane	2.21	50	285776	21.166 ug/L	100
5) Vinyl chloride	2.36	62	472883	24.616 ug/L	100
6) Bromomethane	2.78	94	285591	25.459 ug/L	100
8) Chloroethane	2.92	64	276685	25.756 ug/L	97
9) Trichlorofluoromethane	3.26	101	262505	25.834 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	431952	24.763 ug/L	99
12) 1,1-Dichloroethene	4.04	96	439064	25.704 ug/L	95
13) Acetone	4.11	43	268258	43.266 ug/L	99
14) Carbon disulfide	4.38	76	1316181	24.957 ug/L	97
15) Methyl Acetate	4.67	43	181768	21.726 ug/L	99
16) Methylene chloride	4.91	84	448693	20.612 ug/L	100
17) Methyl tert-butyl Ether	5.42	73	549475	24.992 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	458886	25.502 ug/L	99
19) 1,1-Dichloroethane	6.21	63	808804	24.866 ug/L	99
21) 2-Butanone	7.17	43	291348	43.797 ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	487000	25.712 ug/L	97

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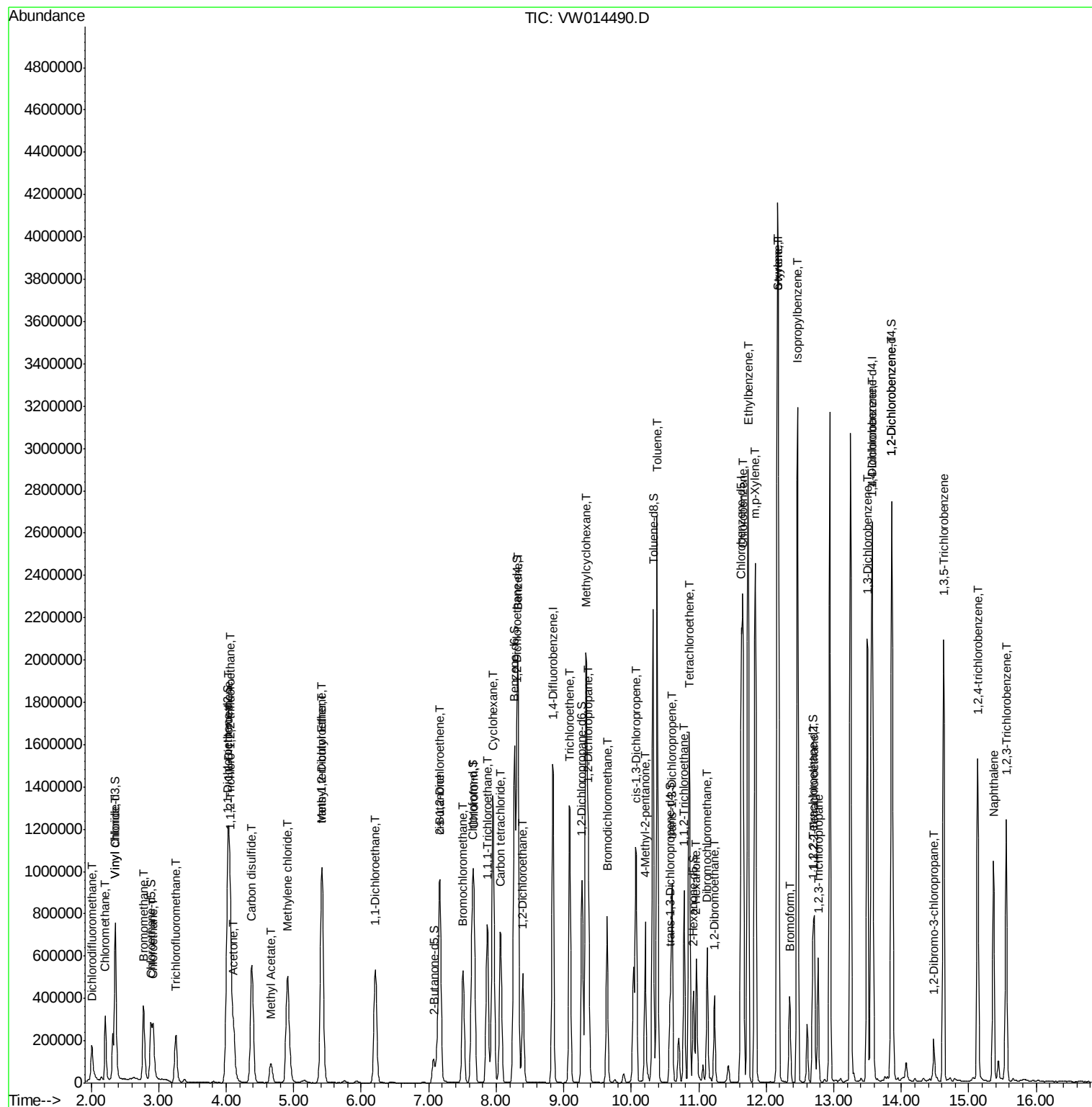
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	201064	24.522	ug/L	89
25) Chloroform	7.67	83	763724	24.548	ug/L	100
27) 1,2-Dichloroethane	8.40	62	460380	22.795	ug/L	98
30) Cyclohexane	7.95	56	825544	28.107	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	615604	26.136	ug/L	99
32) Carbon tetrachloride	8.07	117	570779	26.010	ug/L	100
34) Benzene	8.32	78	1844009	26.686	ug/L	100
35) Trichloroethene	9.09	95	476447	26.717	ug/L	99
36) Methylcyclohexane	9.33	83	870217	27.814	ug/L	98
40) 1,2-Dichloropropane	9.37	63	449085	25.678	ug/L	100
41) Bromodichloromethane	9.64	83	527857	25.092	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	695925	26.638	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	502454	44.753	ug/L	99
44) Toluene	10.38	91	1955568	27.082	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	536396	25.677	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	302225	24.397	ug/L	98
47) Tetrachloroethene	10.86	164	401362	26.803	ug/L	98
49) 2-Hexanone	10.96	43	376637	49.126	ug/L	99
50) Dibromochloromethane	11.13	129	354819	25.225	ug/L	94
51) 1,2-Dibromoethane	11.23	107	290916	24.878	ug/L #	99
52) Chlorobenzene	11.65	112	1204204	26.381	ug/L	98
53) Ethylbenzene	11.73	91	2146167	27.032	ug/L	99
54) m,p-Xylene	11.83	106	827415	27.540	ug/L	97
55) o-xylene	12.16	106	777964	27.413	ug/L	99
56) Styrene	12.18	104	1305328	27.328	ug/L	95
57) Isopropylbenzene	12.46	105	2101591	27.840	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	345673	22.982	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	250135	22.200	ug/L	99
62) Bromoform	12.35	173	195587	24.130	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	924833	26.930	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	905924	26.162	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	809322	26.289	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.48	75	50522	22.161	ug/L	91
67) 1,3,5-Trichlorobenzene	14.63	180	708345	27.844	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	540628	28.349	ug/L	100
69) Naphthalene	15.36	128	898325	27.286	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	467171	27.034	ug/L	99

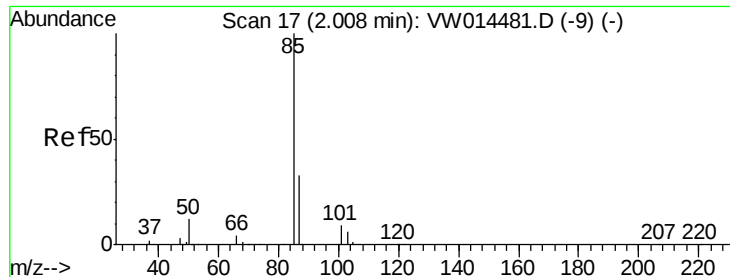
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.070 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

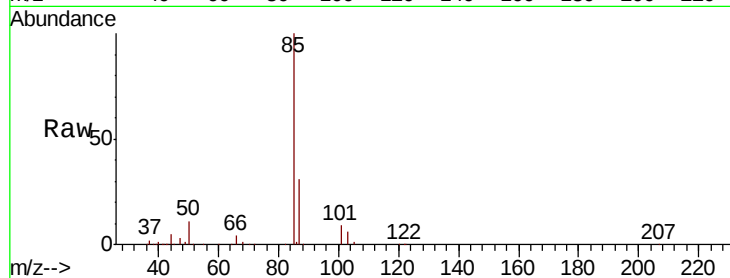
VSTD02510

Tot Ion: 85 Resp: 263570

Ion Ratio Lower Upper

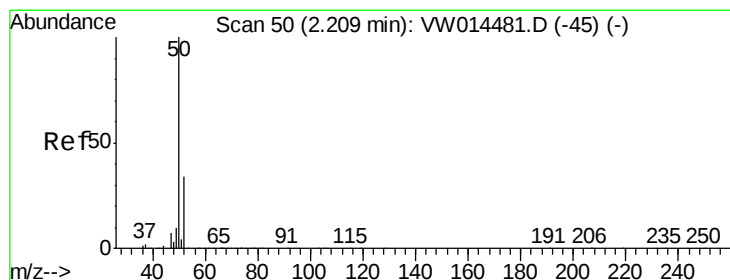
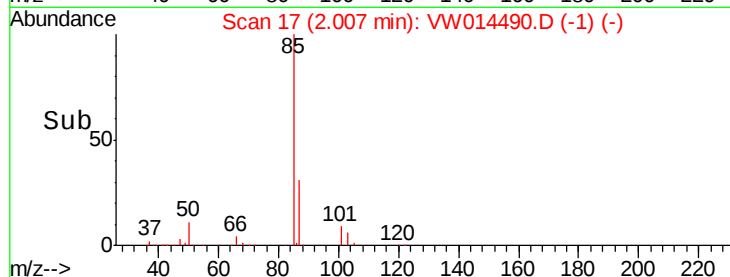
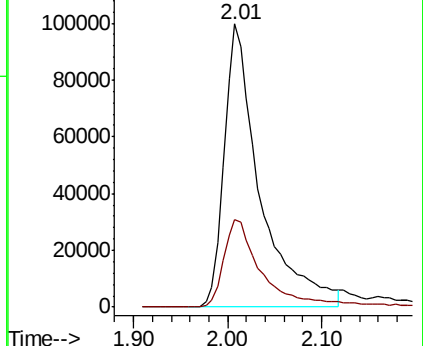
85 100

87 31.5 21.5 39.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.166 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW014490.D

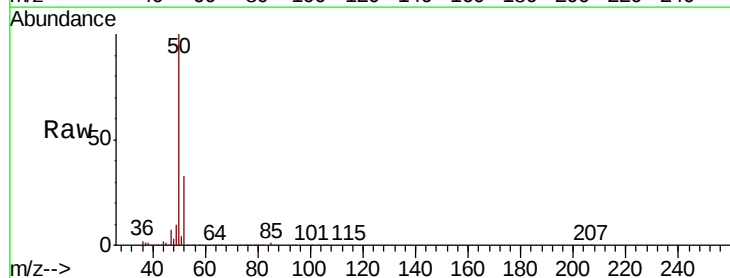
Acq: 28 Dec 2019 11:02

Tgt Ion: 50 Resp: 285776

Ion Ratio Lower Upper

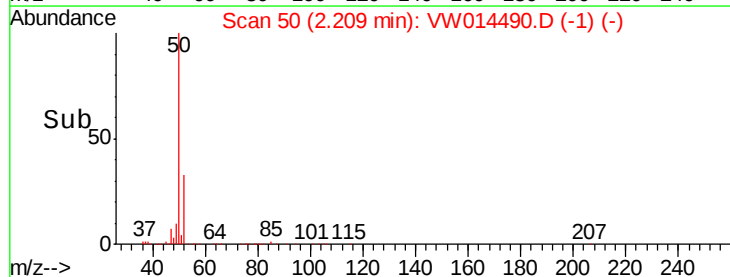
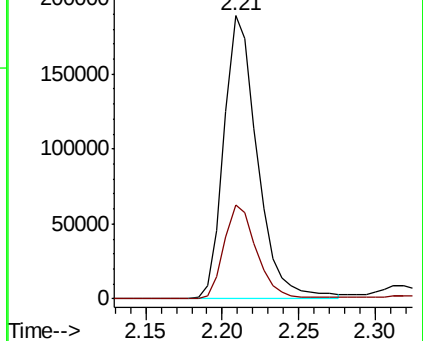
50 100

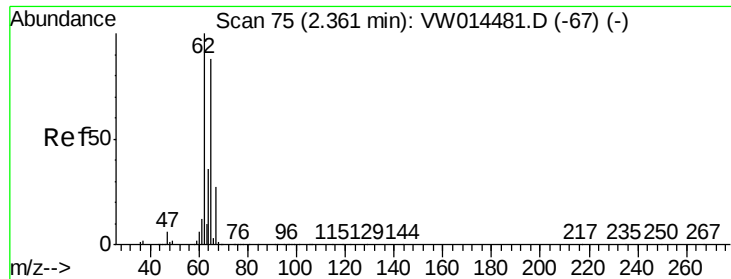
52 33.0 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.616 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

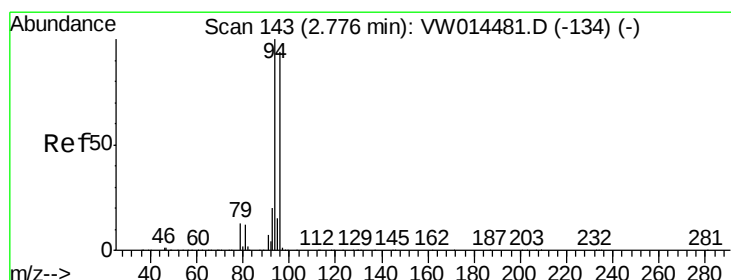
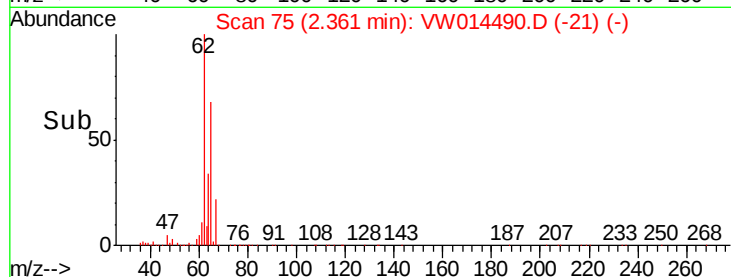
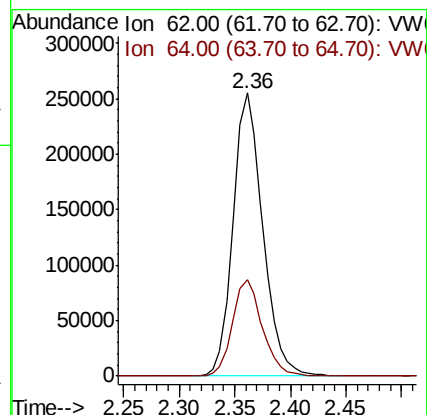
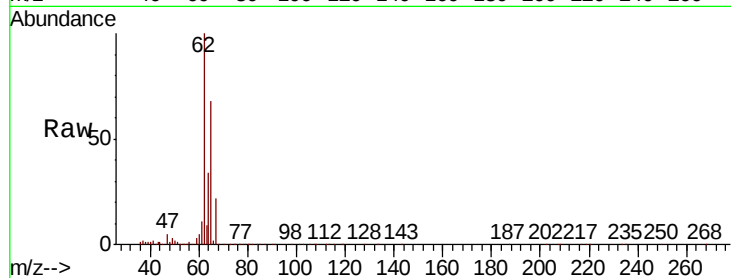
VSTD02510

Tot Ion: 62 Resp: 472883

Ion Ratio Lower Upper

62 100

64 34.3 24.1 44.8



#6

Bromomethane

Concen: 25.459 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014490.D

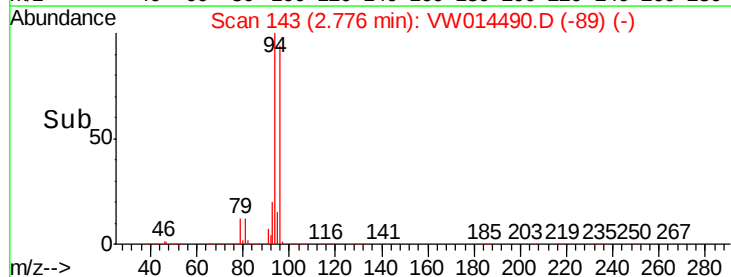
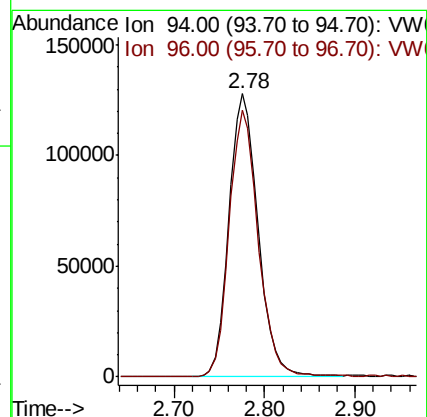
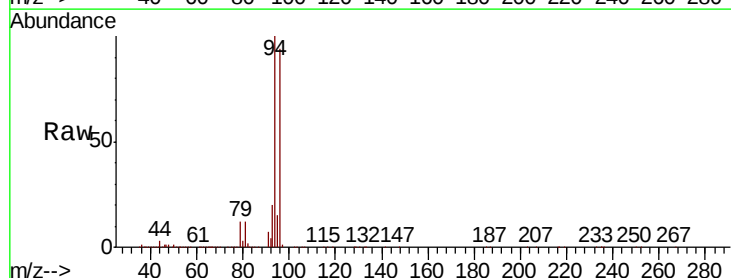
Acq: 28 Dec 2019 11:02

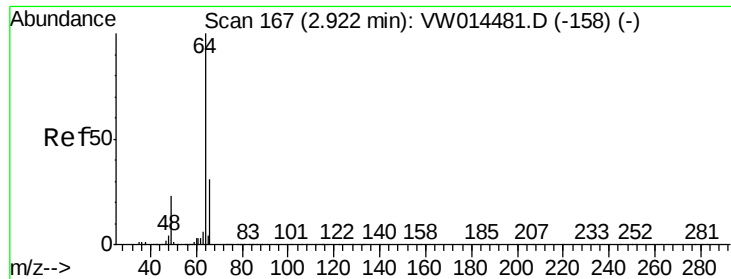
Tgt Ion: 94 Resp: 285591

Ion Ratio Lower Upper

94 100

96 93.8 9.4 178.8





#8

Chloroethane

Concen: 25.756 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

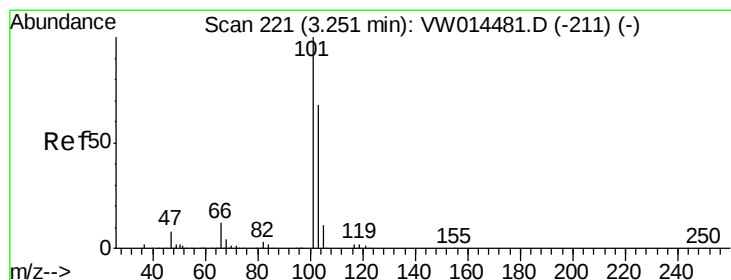
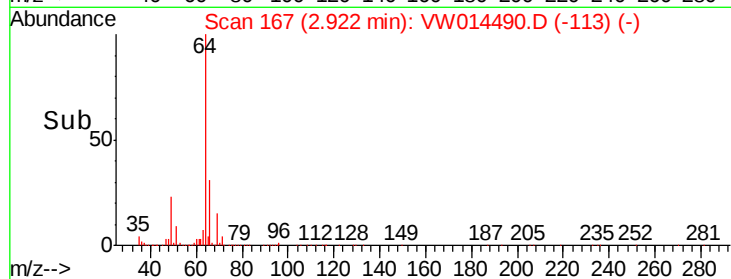
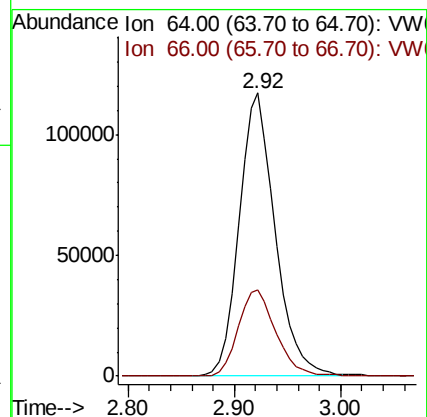
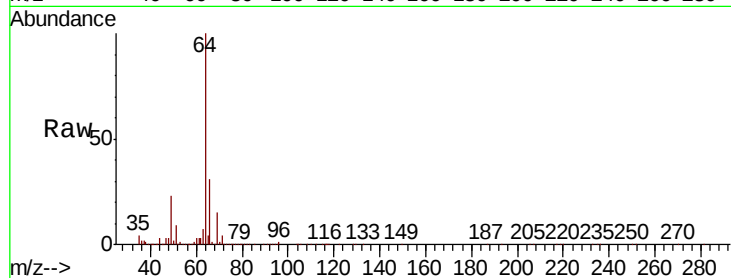
VSTD02510

Tot Ion: 64 Resp: 276685

Ion Ratio Lower Upper

64 100

66 30.7 22.5 41.7



#9

Trichlorofluoromethane

Concen: 25.834 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW014490.D

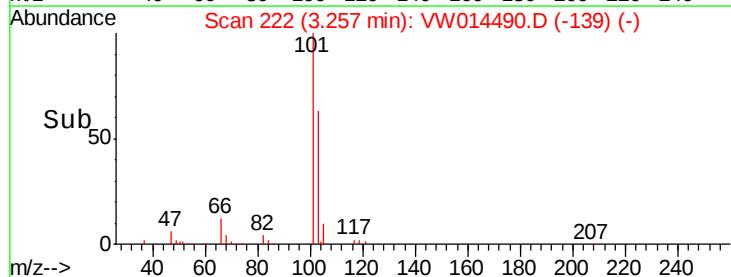
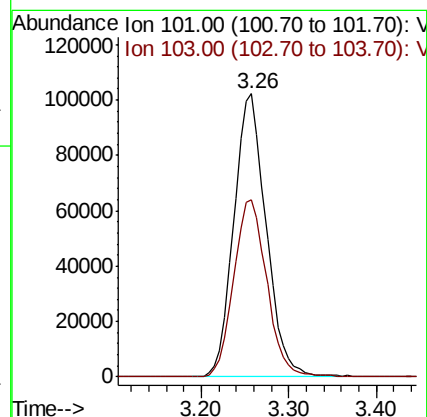
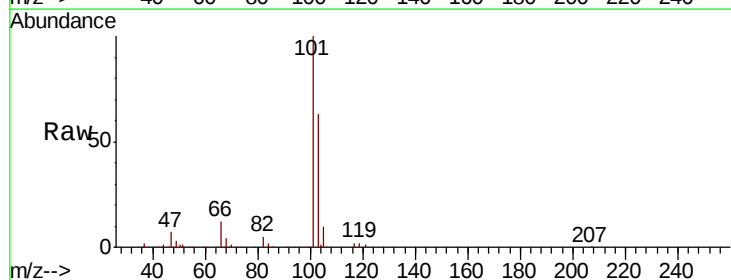
Acq: 28 Dec 2019 11:02

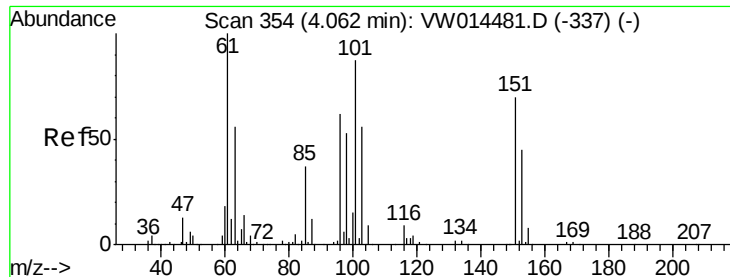
Tgt Ion: 101 Resp: 262505

Ion Ratio Lower Upper

101 100

103 64.3 45.5 84.5





#11

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

Concen: 24.763 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

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ClientSampleId :

VSTD02510

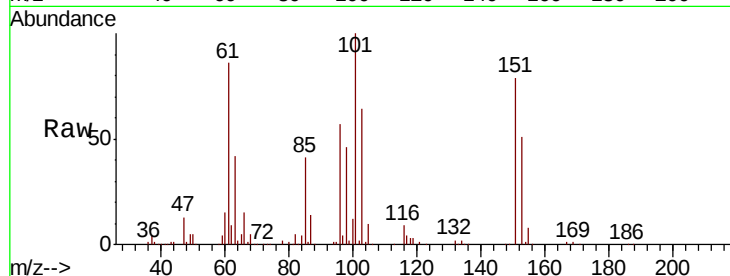
Tot Ion:101 Resp: 431952

Ion Ratio Lower Upper

101 100

85 40.9 33.3 49.9

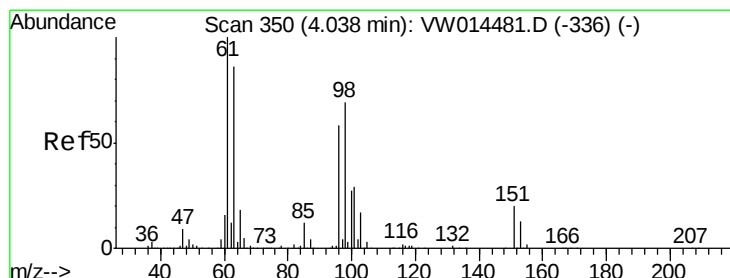
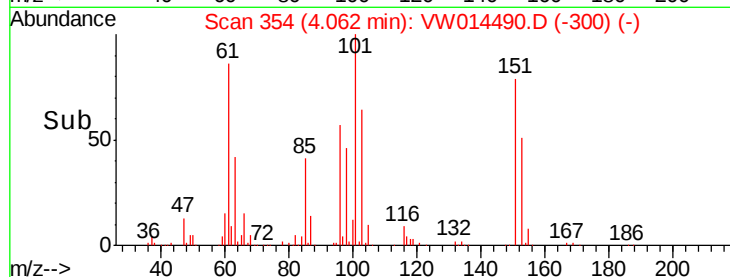
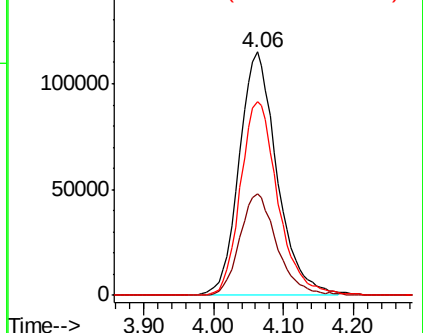
151 78.6 62.5 93.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.704 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

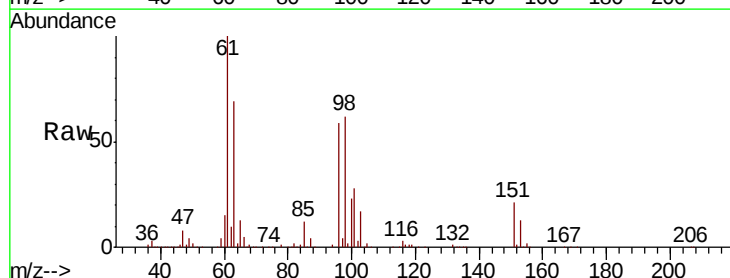
Tgt Ion: 96 Resp: 439064

Ion Ratio Lower Upper

96 100

61 169.8 114.2 212.0

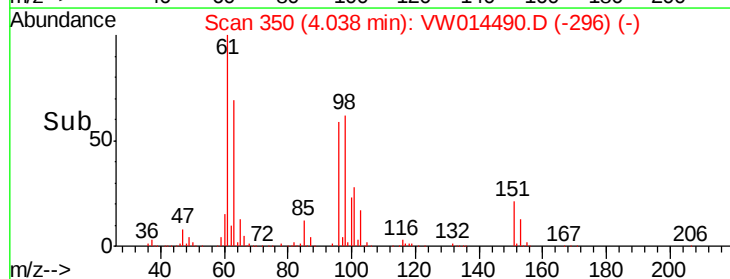
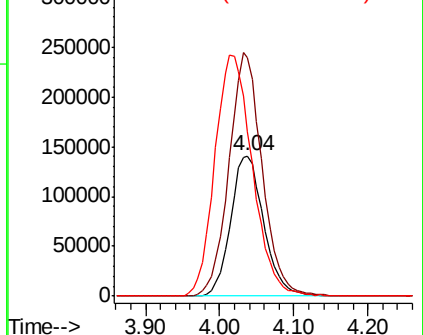
63 117.1 78.6 146.0

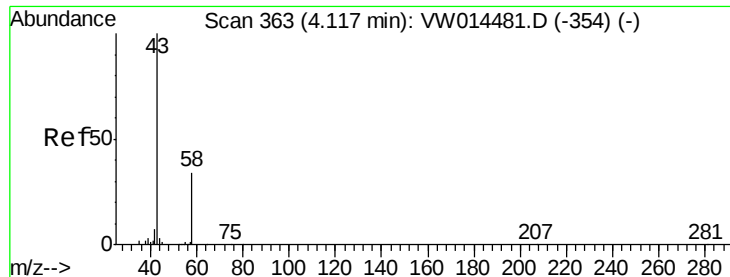


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 43.266 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampled :

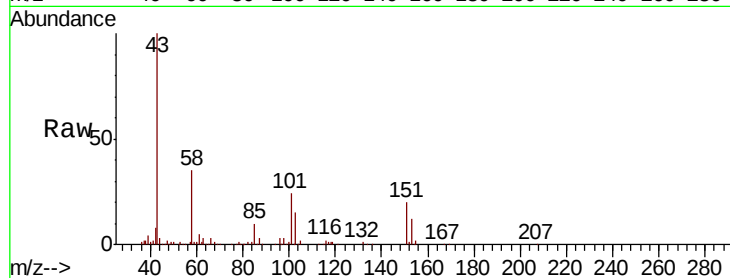
VSTD02510

Tot Ion: 43 Resp: 268258

Ion Ratio Lower Upper

43 100

58 32.6 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

100000

80000

60000

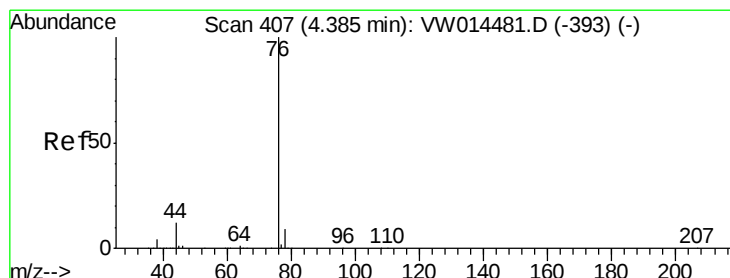
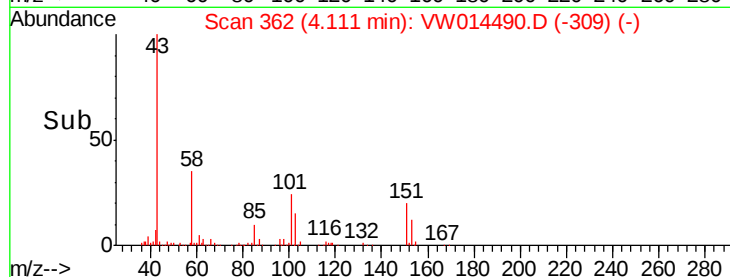
40000

20000

0

Time--> 3.90 4.00 4.10 4.20

4.11



#14

Carbon disulfide

Concen: 24.957 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW014490.D

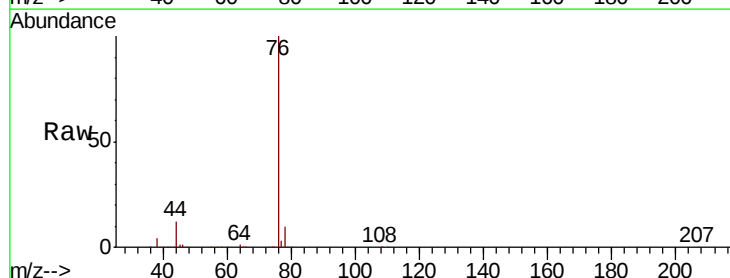
Acq: 28 Dec 2019 11:02

Tgt Ion: 76 Resp: 1316181

Ion Ratio Lower Upper

76 100

78 9.6 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

500000

400000

300000

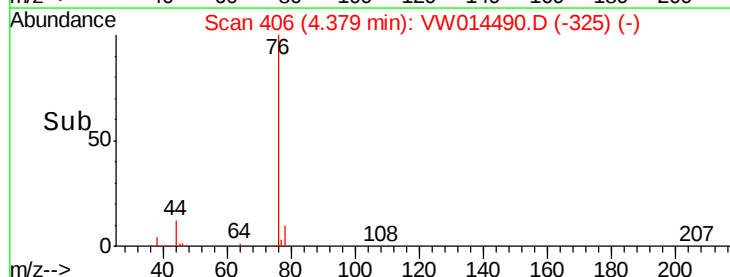
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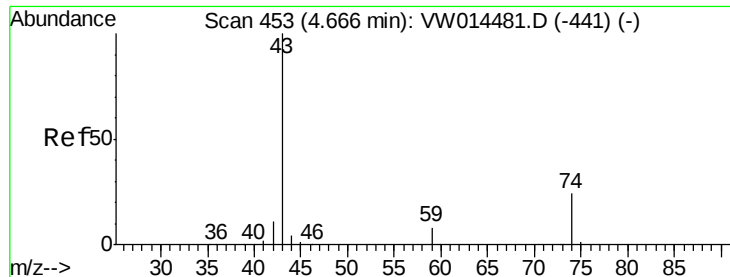
100000

0

Time--> 4.30 4.40 4.50

4.38

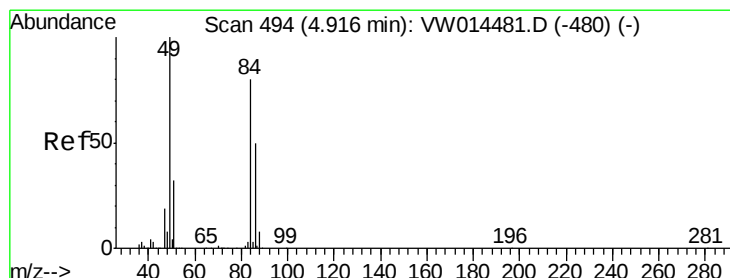
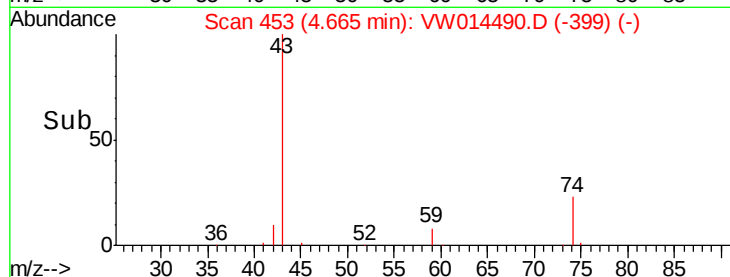
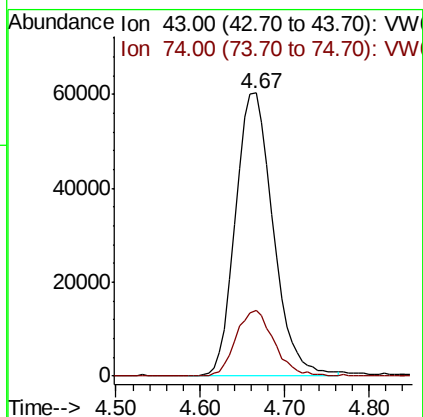
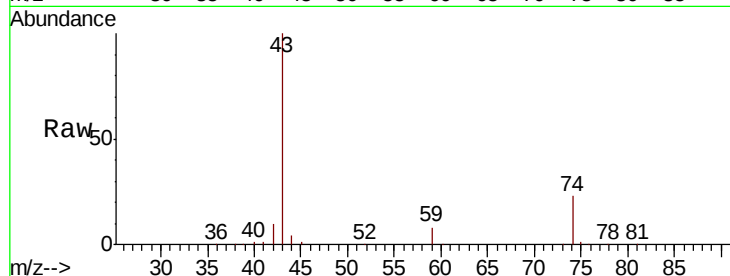




#15
Methvl Acetate
Concen: 21.726 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

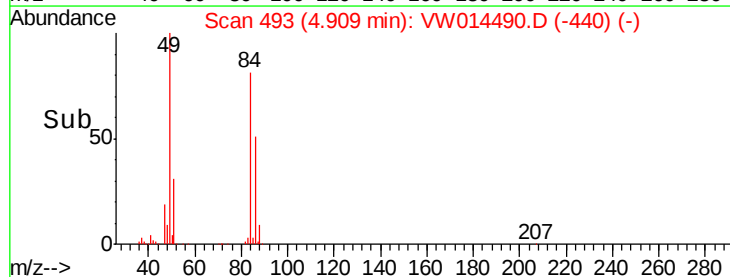
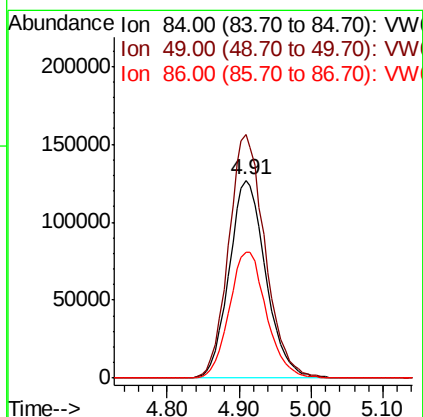
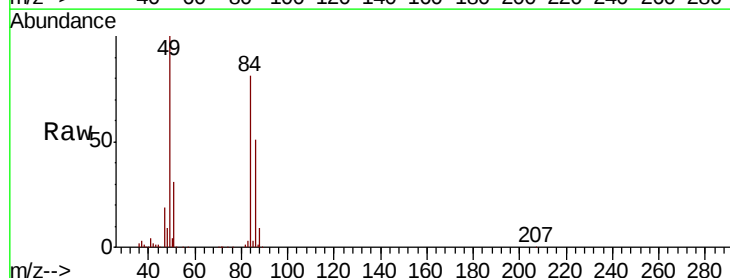
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

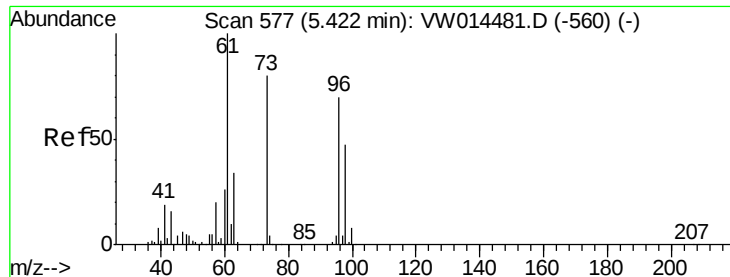
Tot Ion: 43 Resp: 181768
Ion Ratio Lower Upper
43 100
74 23.5 18.3 27.5



#16
Methylene chloride
Concen: 20.612 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Tgt Ion: 84 Resp: 448693
Ion Ratio Lower Upper
84 100
49 123.2 85.8 159.4
86 63.4 44.5 82.7

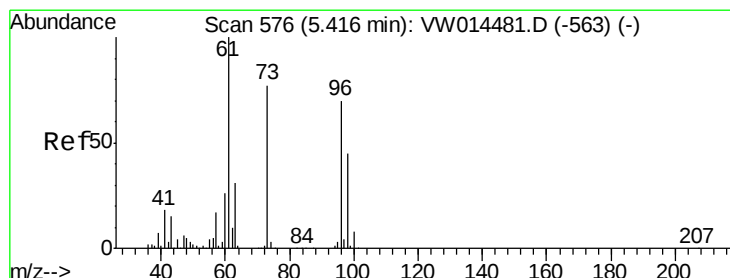
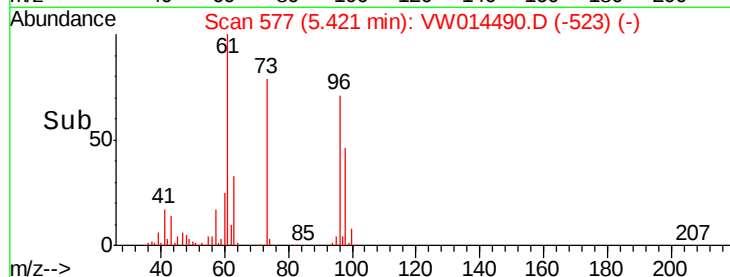
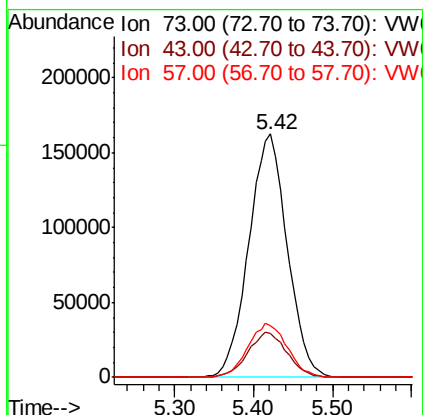
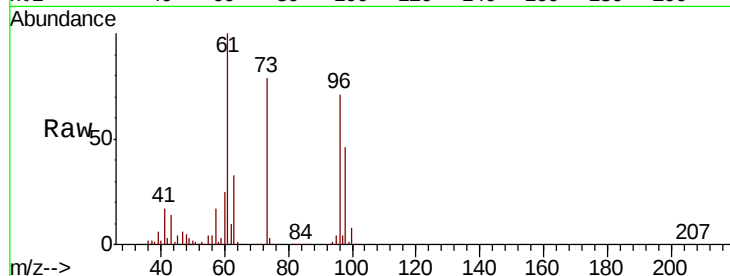




#17
Methvl tert-butvl Ether
Concen: 24.992 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

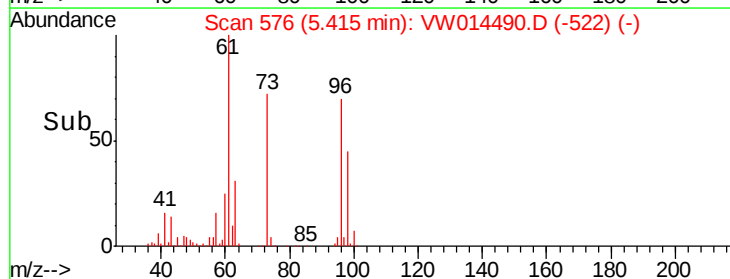
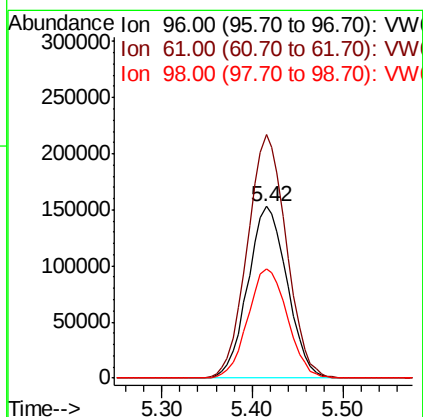
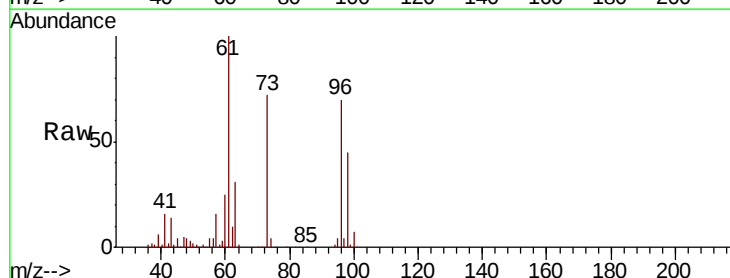
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

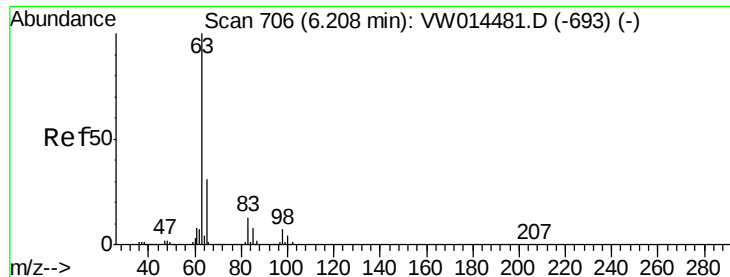
Tot Ion: 73 Resp: 549475
Ion Ratio Lower Upper
73 100
43 18.8 15.7 23.5
57 22.7 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 25.502 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Tgt Ion: 96 Resp: 458886
Ion Ratio Lower Upper
96 100
61 142.1 98.2 182.4
98 64.1 44.1 81.9





#19

1,1-Dichloroethane

Concen: 24.866 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

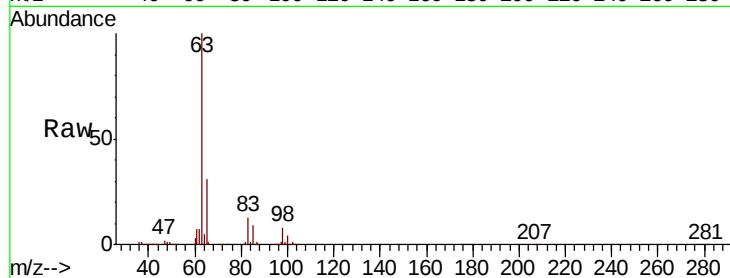
Tot Ion: 63 Resp: 808804

Ion Ratio Lower Upper

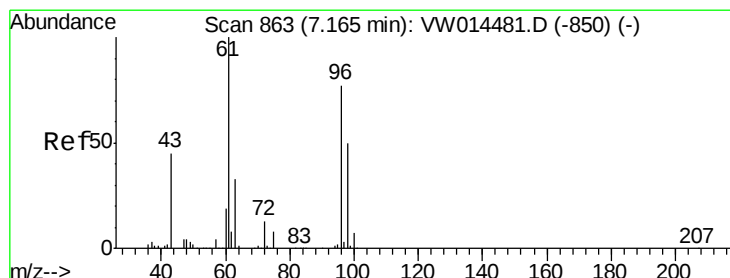
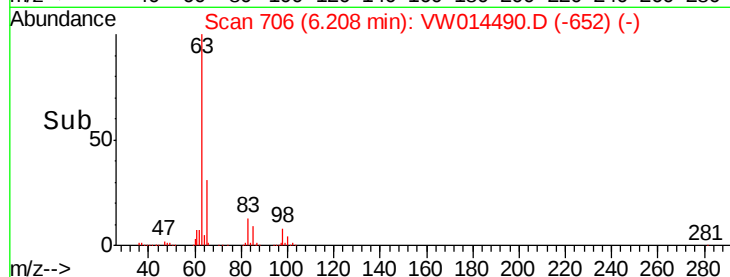
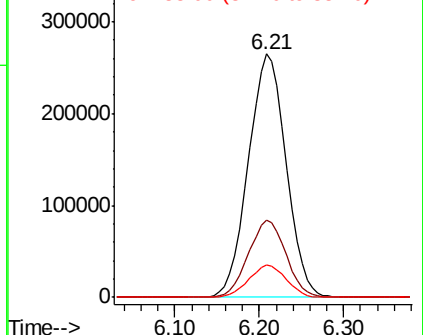
63 100

65 31.5 21.7 40.3

83 13.3 9.0 16.8



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: 43.797 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014490.D

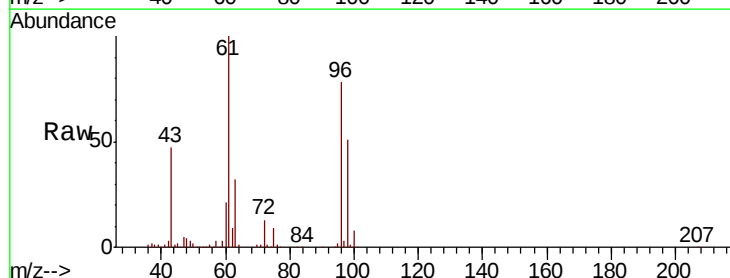
Acq: 28 Dec 2019 11:02

Tgt Ion: 43 Resp: 291348

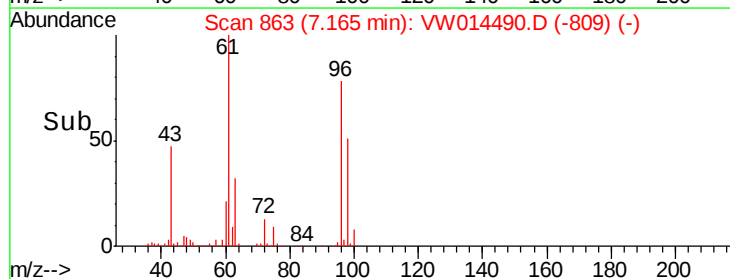
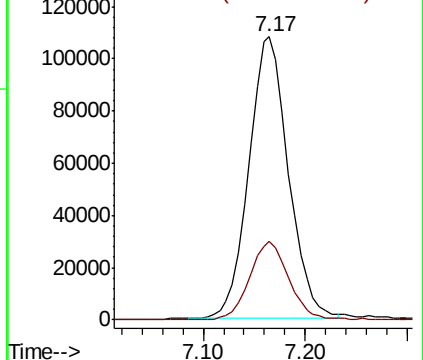
Ion Ratio Lower Upper

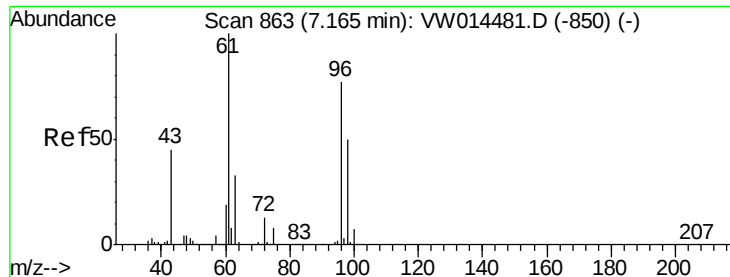
43 100

72 27.5 13.3 39.8



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



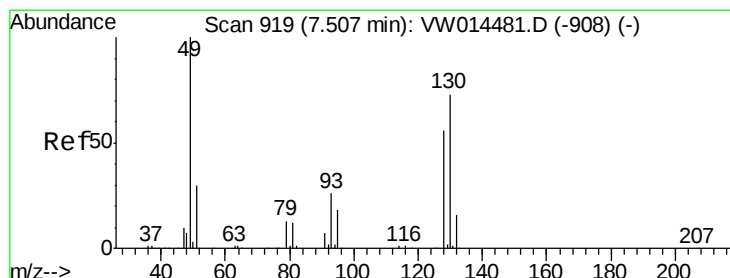
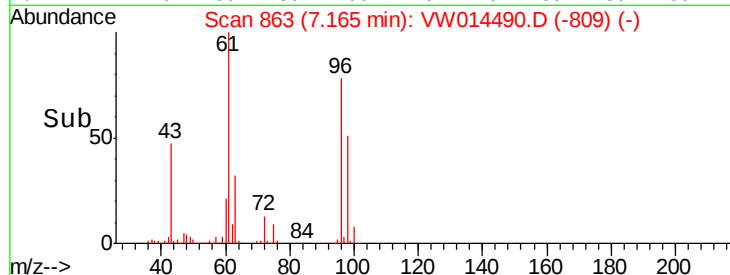
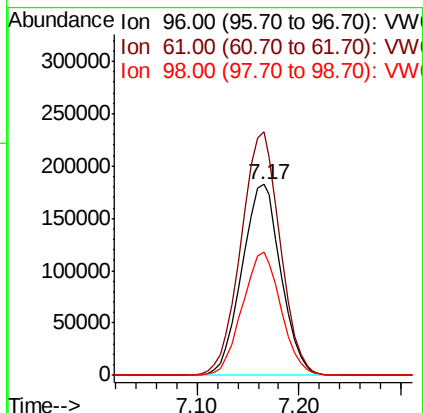
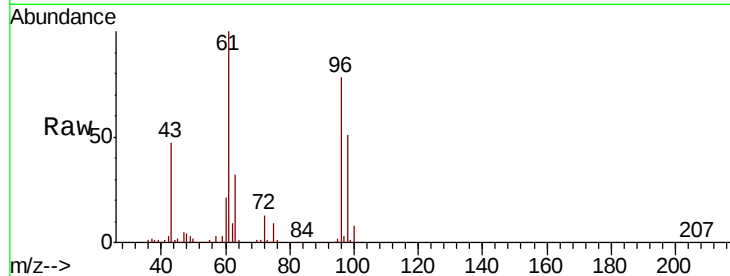


#22

cis-1,2-Dichloroethene
Concen: 25.712 ug/L
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

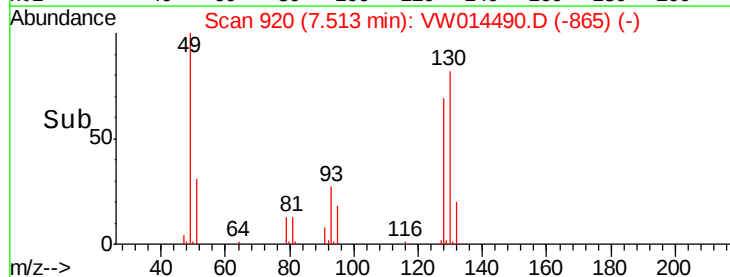
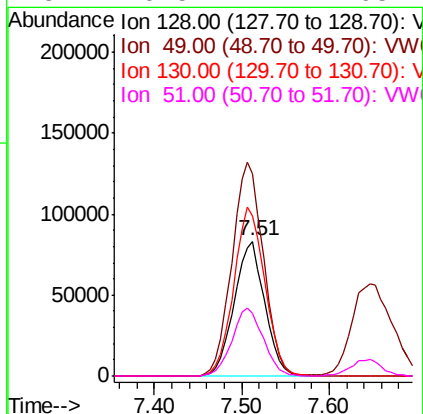
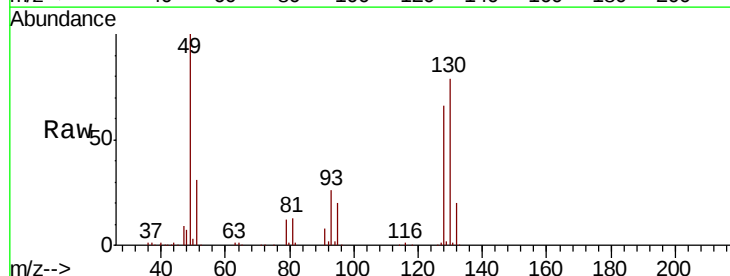
Tot Ion: 96 Resp: 487000
Ion Ratio Lower Upper
96 100
61 127.7 91.5 169.9
98 64.7 46.9 87.1

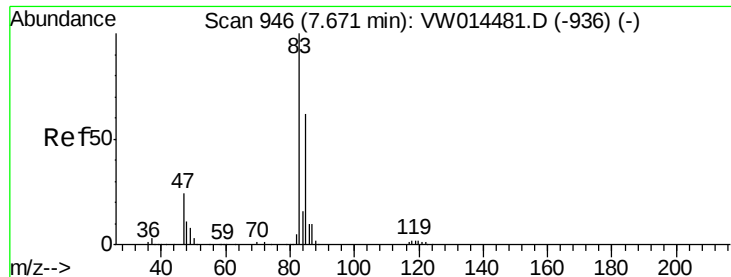


#23

Bromochloromethane
Concen: 24.522 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Tgt Ion: 128 Resp: 201064
Ion Ratio Lower Upper
128 100
49 150.5 118.3 219.7
130 119.0 89.5 166.1
51 46.5 42.1 63.1





#25

Chloroform

Concen: 24.548 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

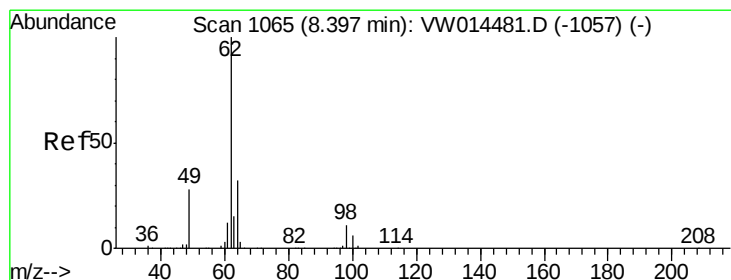
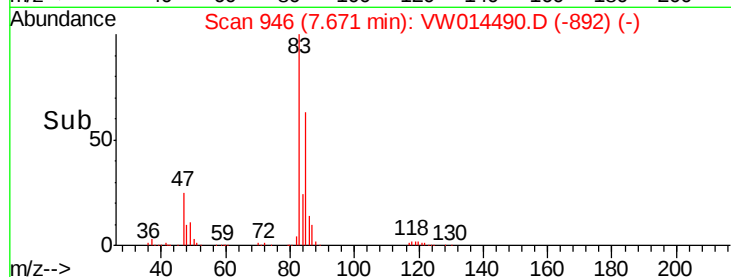
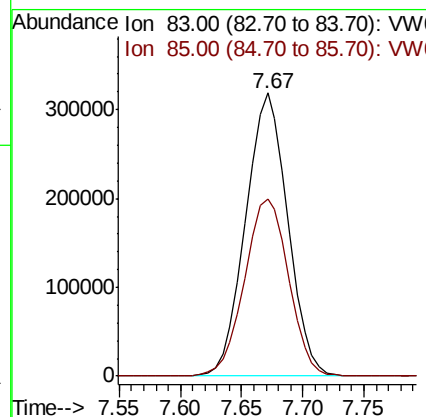
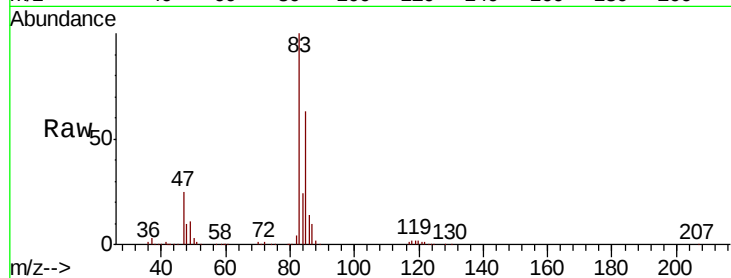
VSTD02510

Tot Ion: 83 Resp: 763724

Ion Ratio Lower Upper

83 100

85 65.8 45.8 85.2



#27

1,2-Dichloroethane

Concen: 22.795 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014490.D

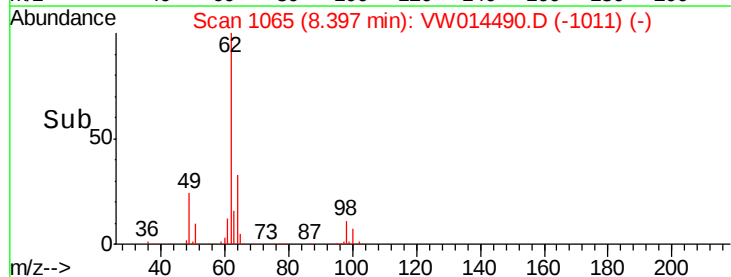
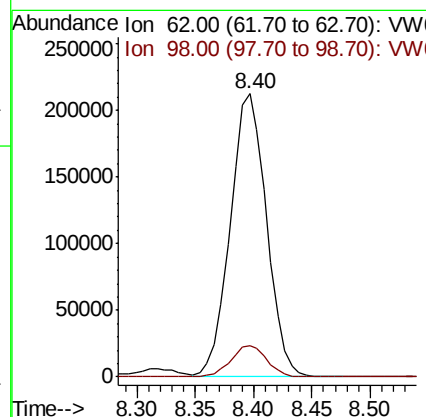
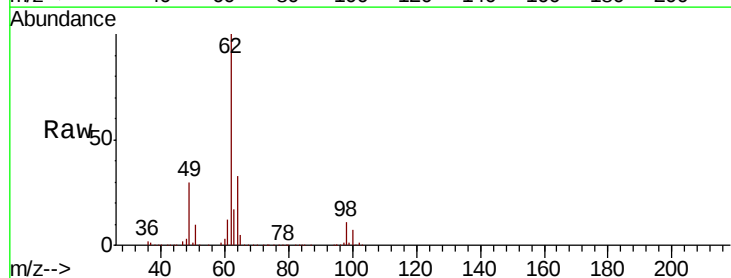
Acq: 28 Dec 2019 11:02

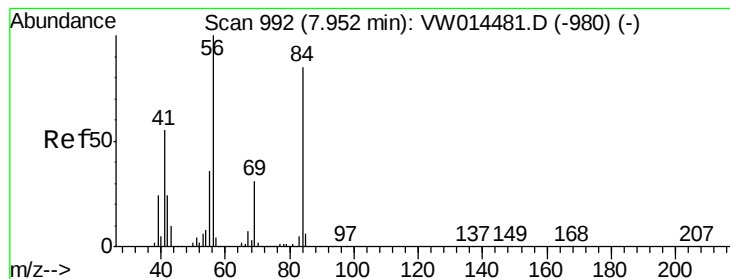
Tgt Ion: 62 Resp: 460380

Ion Ratio Lower Upper

62 100

98 11.1 8.3 12.5





#30

Cyclohexane

Concen: 28.107 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

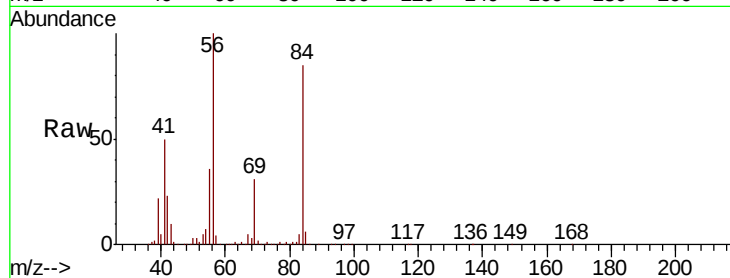
Tot Ion: 56 Resp: 825544

Ion Ratio Lower Upper

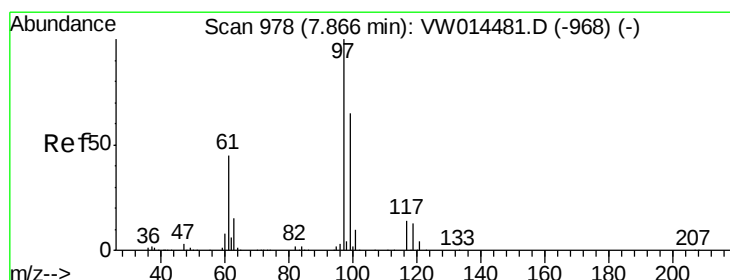
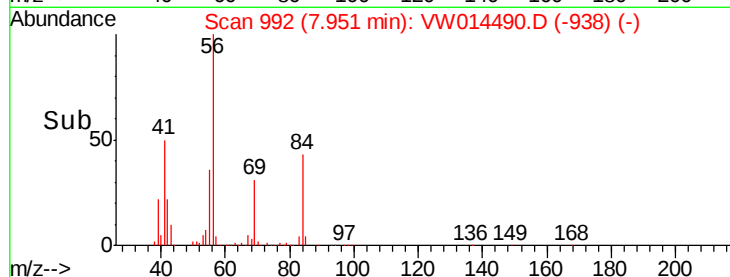
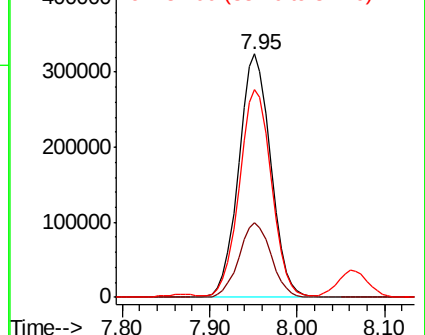
56 100

69 30.9 23.8 35.8

84 85.8 68.2 102.2



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 26.136 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

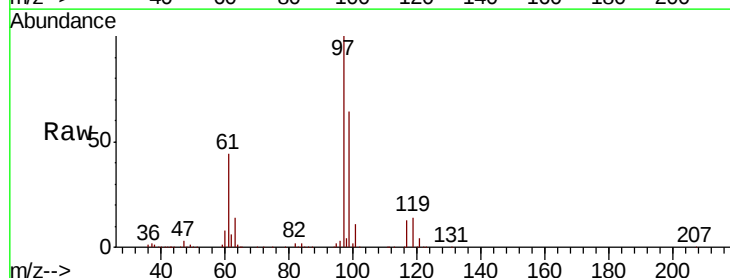
Tgt Ion: 97 Resp: 615604

Ion Ratio Lower Upper

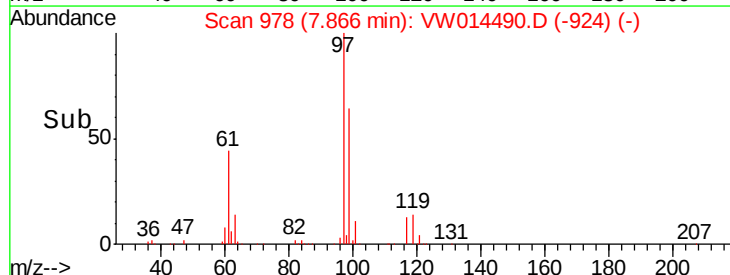
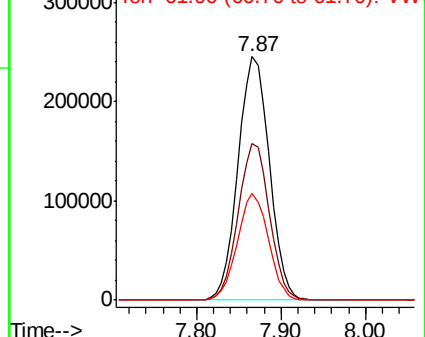
97 100

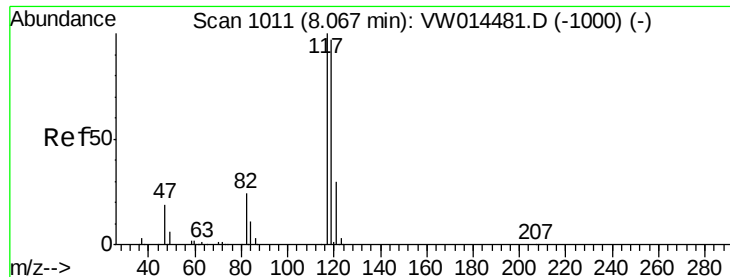
99 64.1 51.6 77.4

61 43.4 35.3 52.9



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 26.010 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

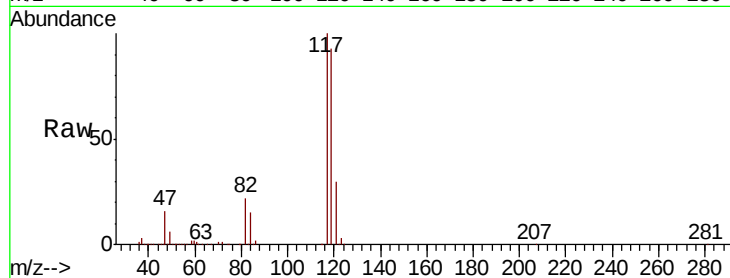
VSTD02510

Tot Ion:117 Resp: 570779

Ion Ratio Lower Upper

117 100

119 96.6 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

250000

200000

150000

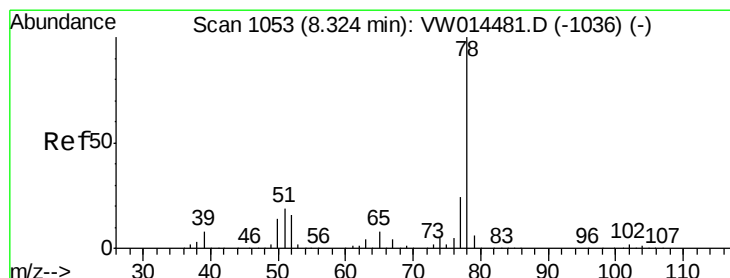
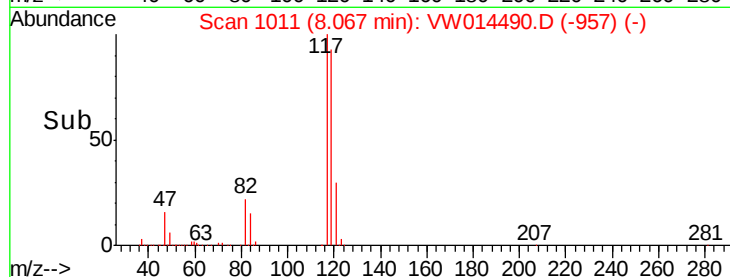
100000

50000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 26.686 ug/L

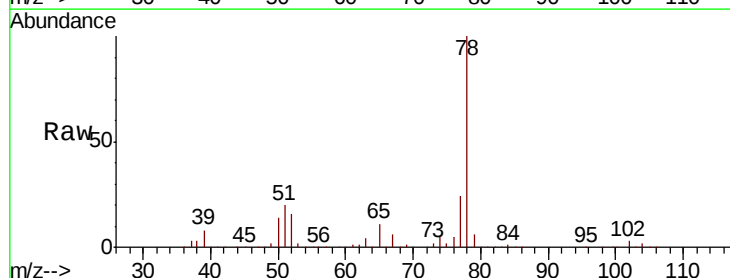
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Tgt Ion: 78 Resp: 1844009



Abundance Ion 78.00 (77.70 to 78.70): VW

800000

600000

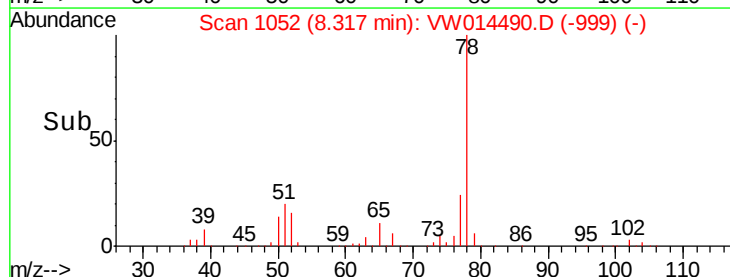
400000

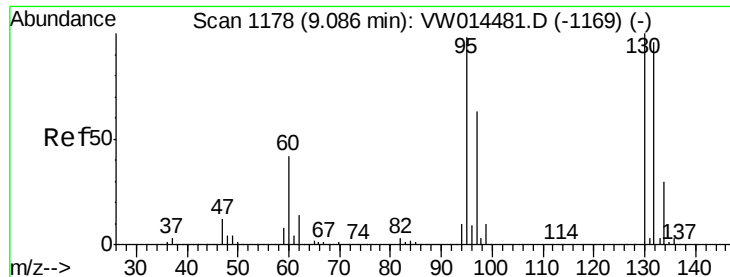
200000

0

8.20 8.30 8.40

Time-->

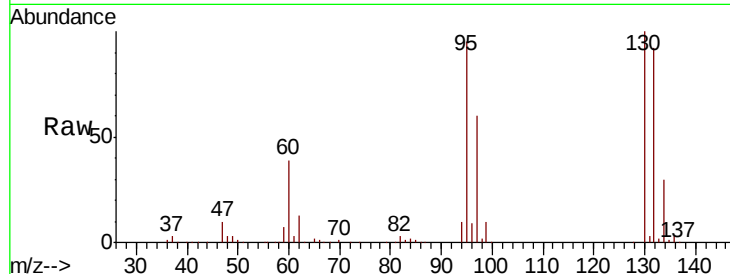




#35
 Trichloroethene
 Concen: 26.717 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: VW014490.D
 Acq: 28 Dec 2019 11:02

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tot Ion:	95	Resp:	476447
Ion	Ratio	Lower	Upper
95	100		
97	63.5	44.3	82.3
132	99.7	69.2	128.6
130	105.3	72.3	134.3



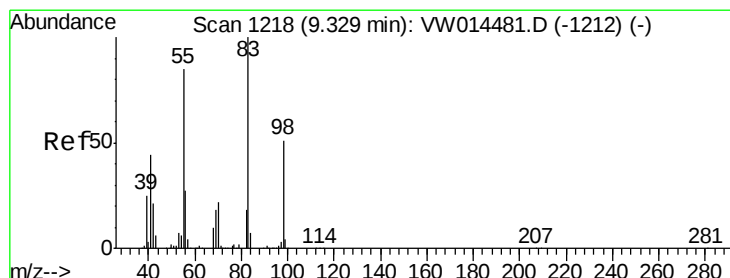
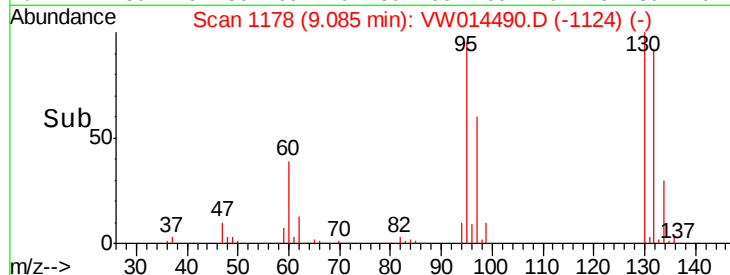
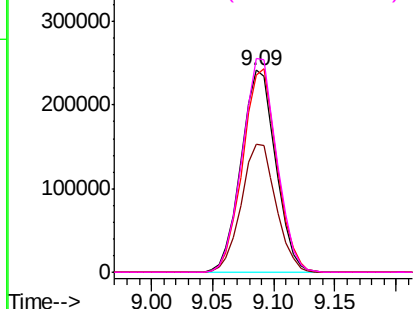
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

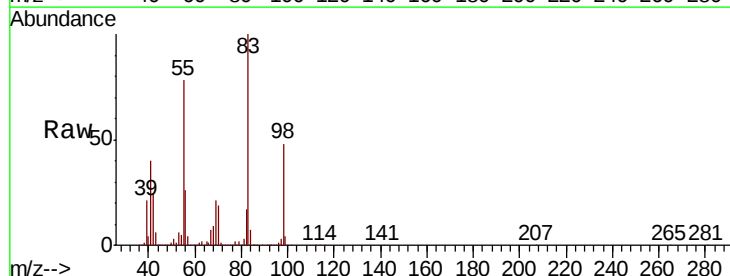
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36
 Methylcyclohexane
 Concen: 27.814 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VW014490.D
 Acq: 28 Dec 2019 11:02

Tgt Ion:	83	Resp:	870217
Ion	Ratio	Lower	Upper
83	100		
55	77.9	63.7	95.5
98	48.5	39.4	59.2

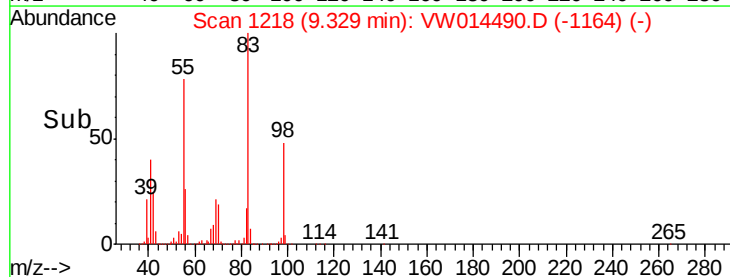
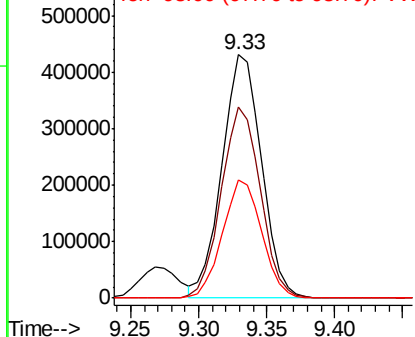


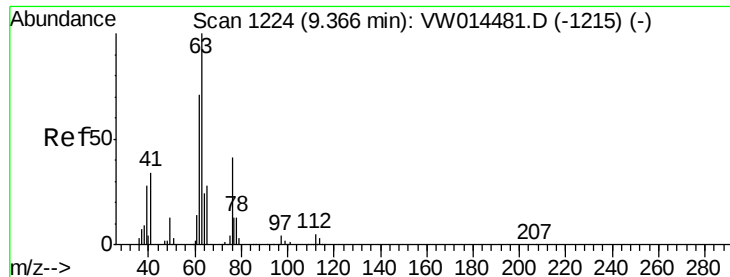
Abundance

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: 25.678 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

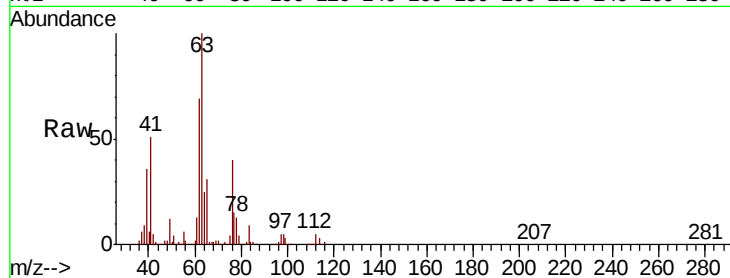
VSTD02510

Tot Ion: 63 Resp: 449085

Ion Ratio Lower Upper

63 100

112 4.6 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V

9.37

250000

200000

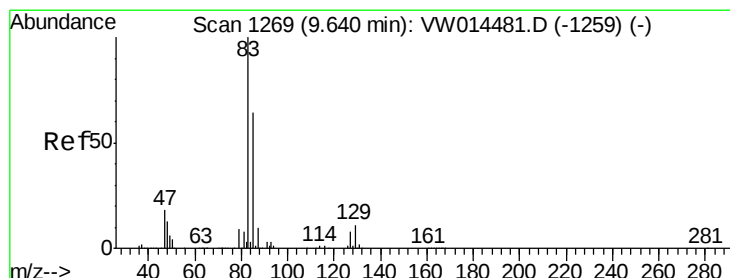
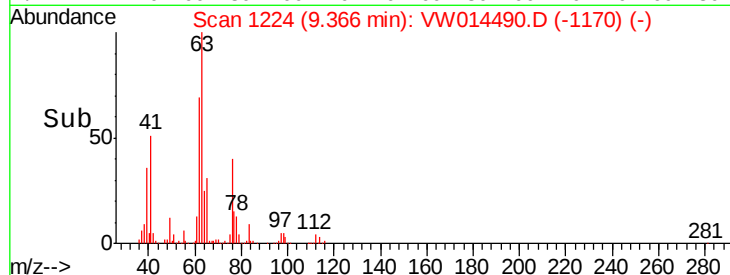
150000

100000

50000

0

Time--> 9.25 9.30 9.35 9.40 9.45



#41

Bromodichloromethane

Concen: 25.092 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

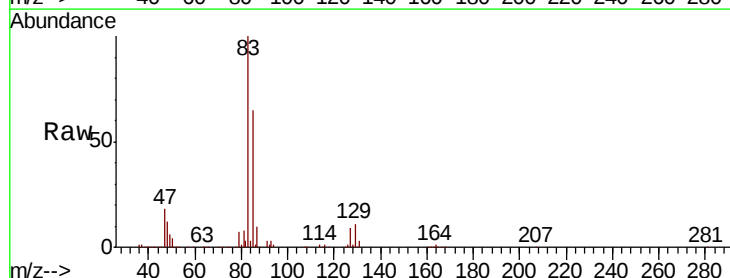
Tgt Ion: 83 Resp: 527857

Ion Ratio Lower Upper

83 100

85 65.3 44.7 83.1

127 8.9 6.3 9.5



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

9.64

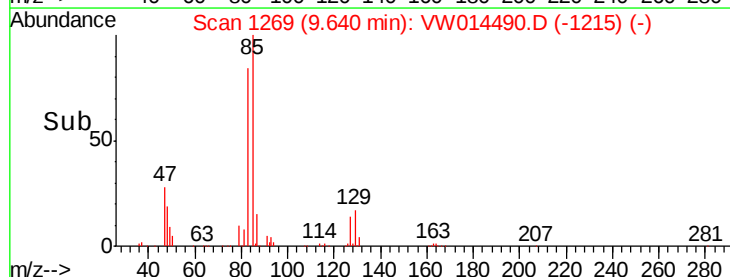
300000

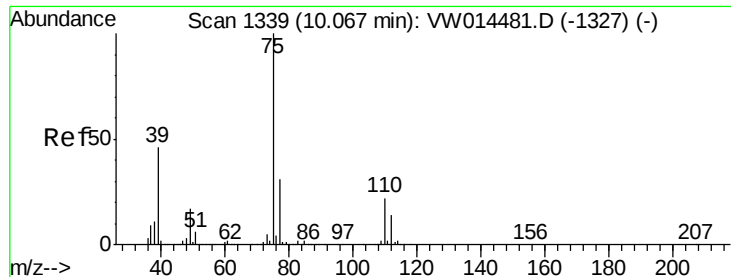
200000

100000

0

Time--> 9.55 9.60 9.65 9.70 9.75





#42

cis-1,3-Dichloropropene

Concen: 26.638 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

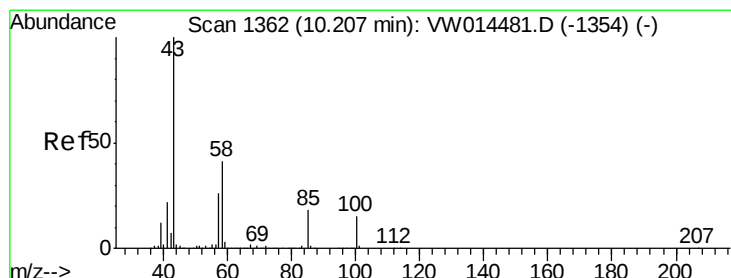
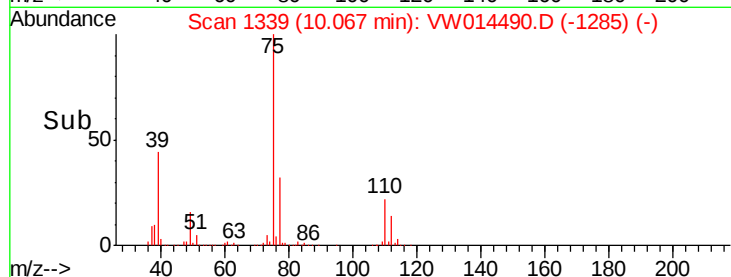
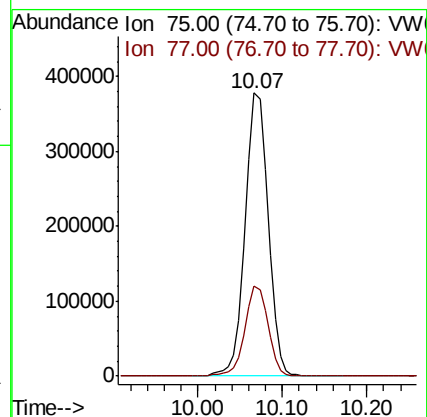
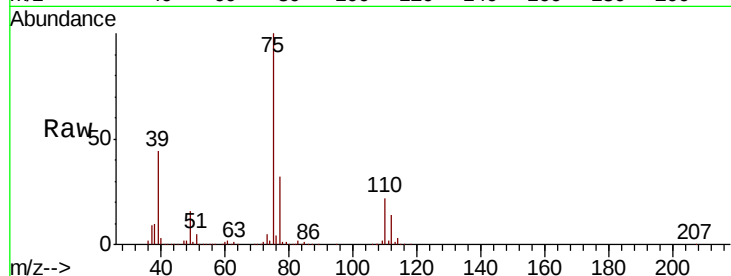
VSTD02510

Tot Ion: 75 Resp: 695925

Ion Ratio Lower Upper

75 100

77 31.6 21.0 39.0



#43

4-Methyl-2-pentanone

Concen: 44.753 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

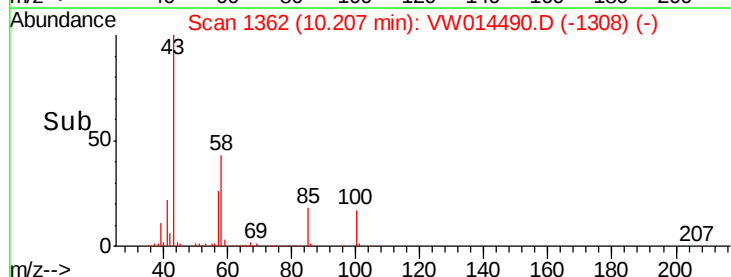
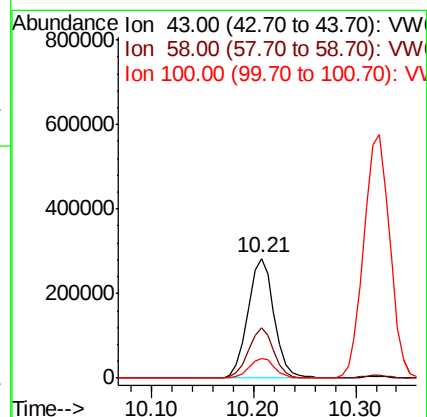
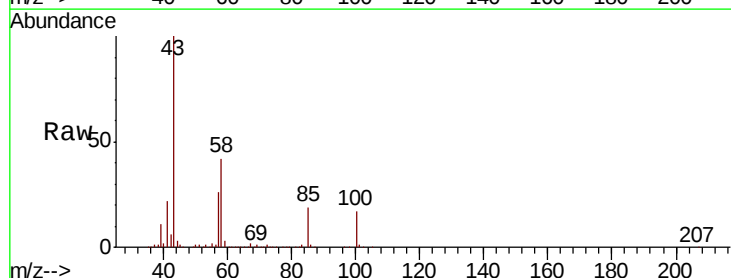
Tgt Ion: 43 Resp: 502454

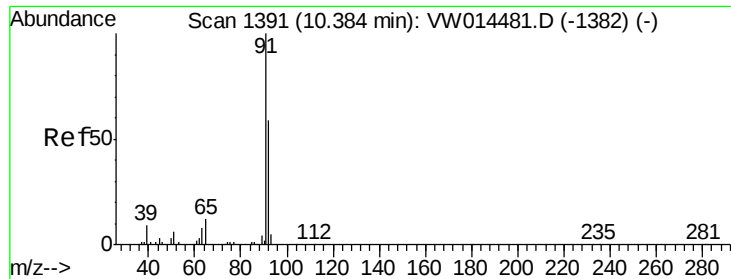
Ion Ratio Lower Upper

43 100

58 41.1 32.6 48.8

100 16.5 12.6 19.0





#44

Toluene

Concen: 27.082 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

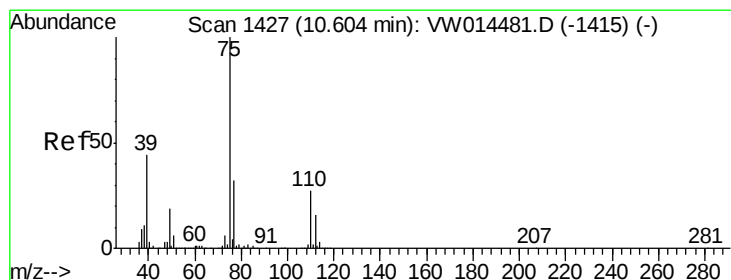
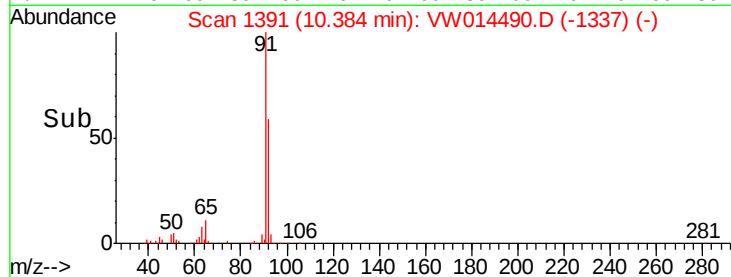
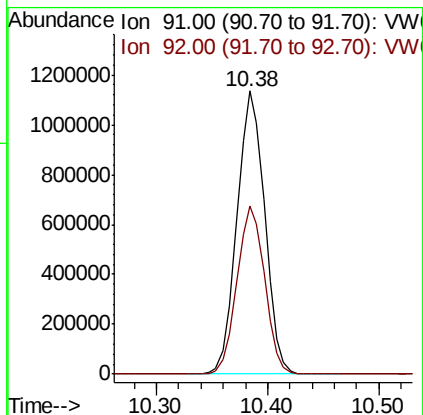
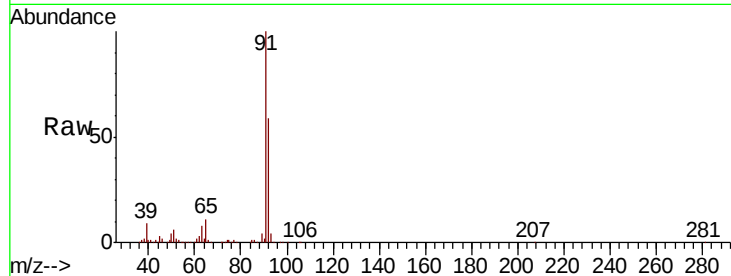
VSTD02510

Tot Ion: 91 Resp: 1955568

Ion Ratio Lower Upper

91 100

92 59.3 40.2 74.6



#45

trans-1,3-Dichloropropene

Concen: 25.677 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014490.D

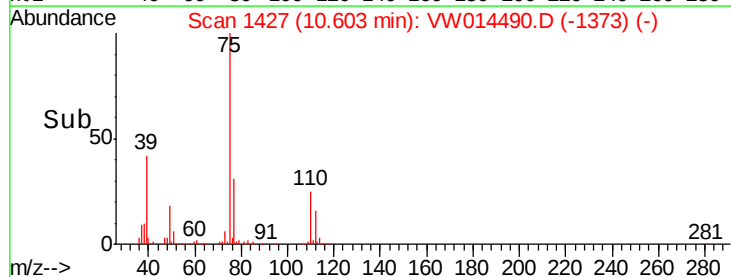
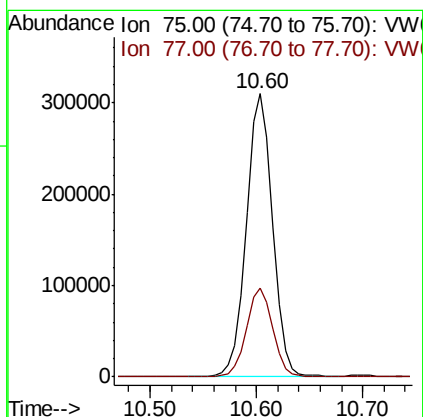
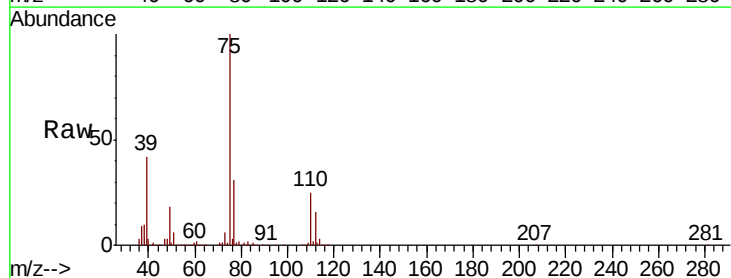
Acq: 28 Dec 2019 11:02

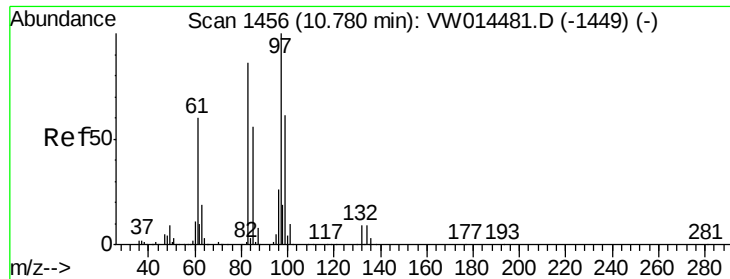
Tgt Ion: 75 Resp: 536396

Ion Ratio Lower Upper

75 100

77 31.2 21.1 39.3

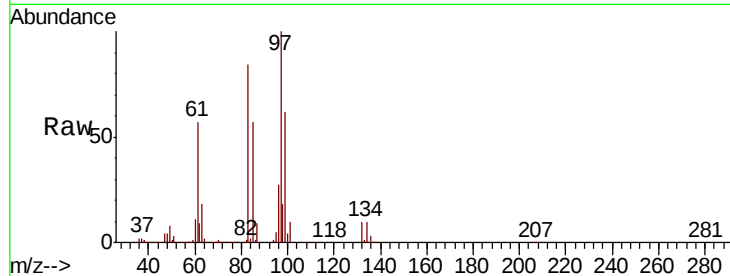




#46
1,1,2-Trichloroethane
Concen: 24.397 ug/L
RT: 10.79 min Scan# 1457
Delta R.T. 0.01 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Instrument :
MSVOA_W
ClientSampled :
VSTD02510

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.1	60.1	111.5
85	56.8	38.1	70.9
99	62.4	43.4	80.6



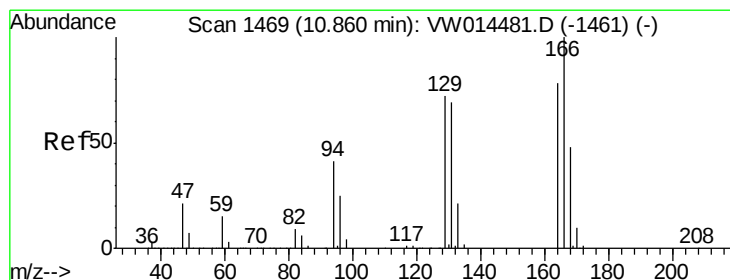
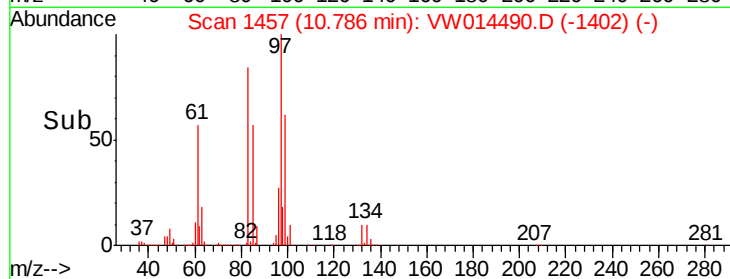
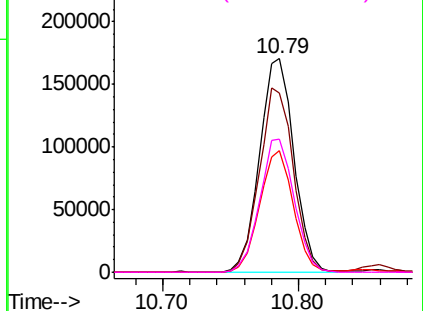
Abundance

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: 26.803 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Tgt Ion	Ratio	Lower	Upper
164	100		
129	88.8	64.0	118.8
131	85.9	60.2	111.8
166	127.9	88.2	163.8

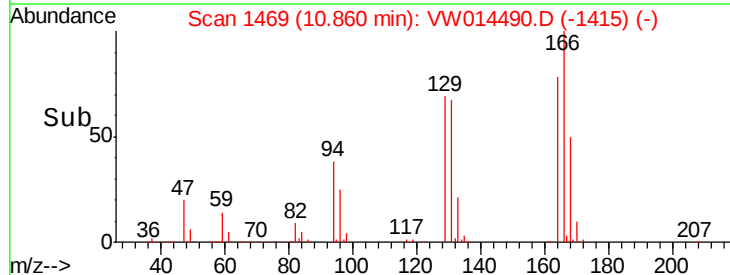
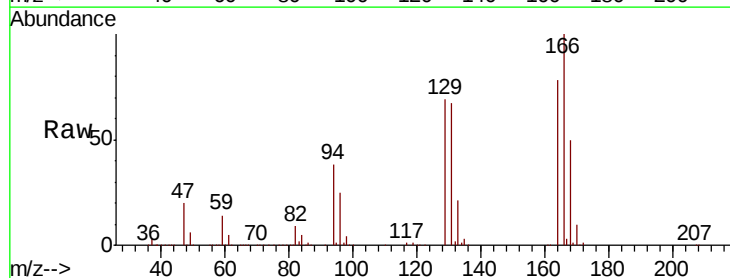
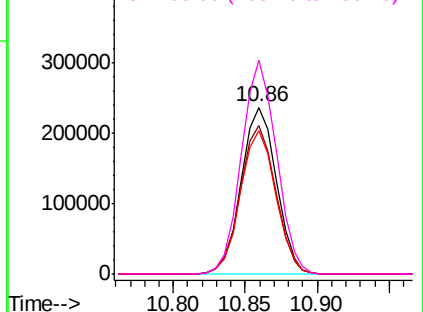
Abundance

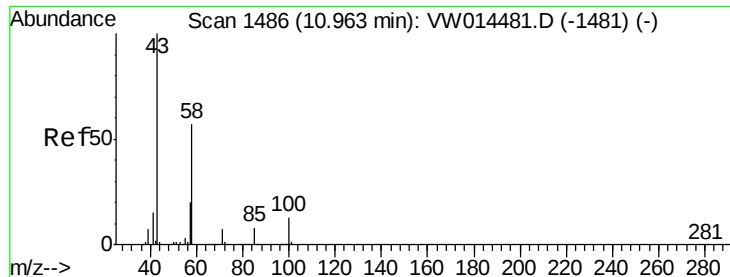
Ion 164.00 (163.70 to 164.70): V

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

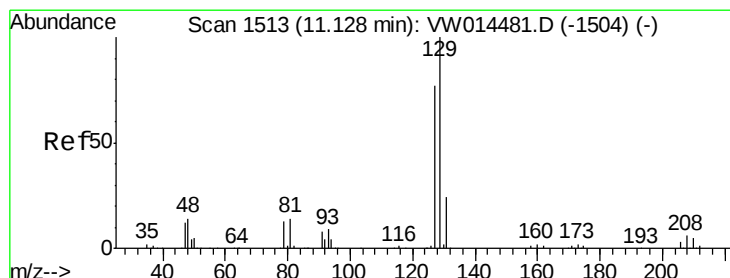
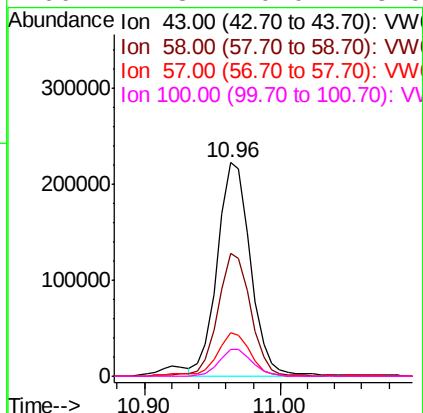
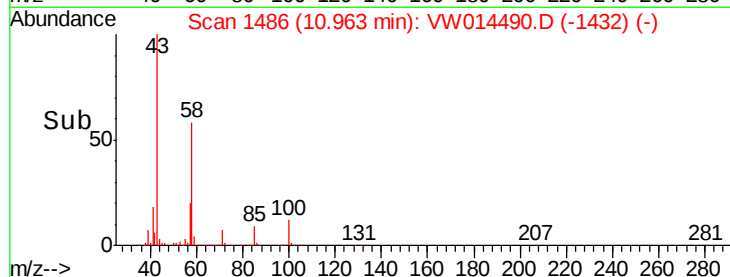
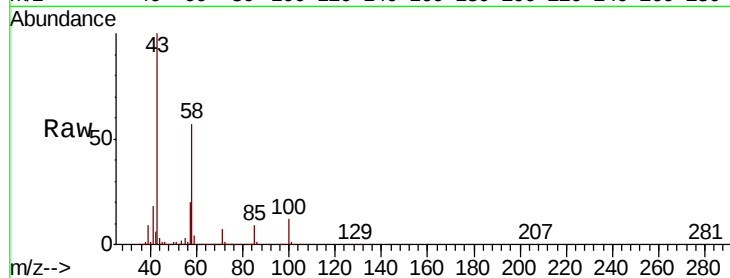




#49
2-Hexanone
Concen: 49.126 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

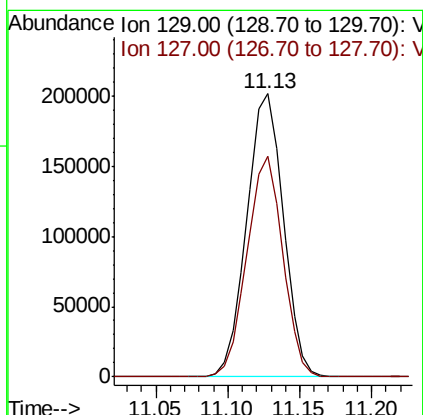
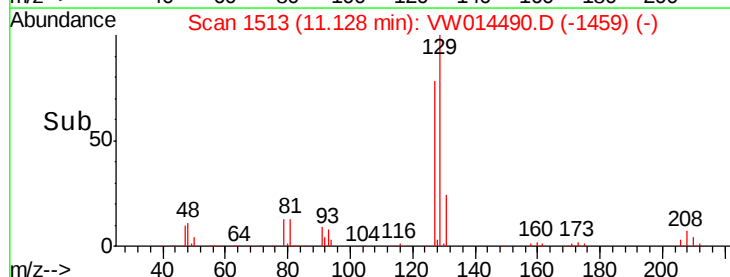
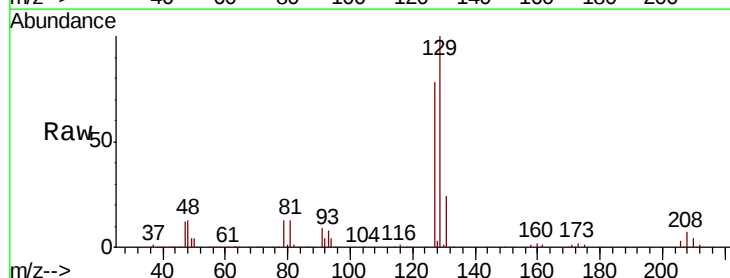
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

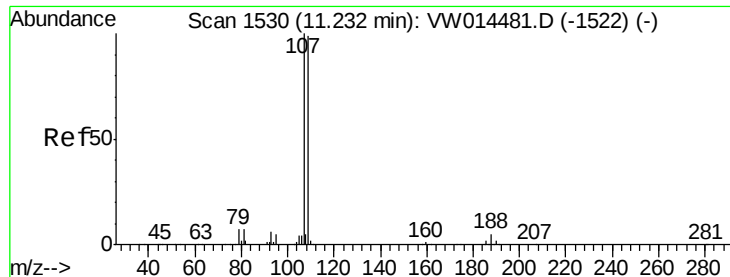
Tot Ion: 43 Resp: 376637
Ion Ratio Lower Upper
43 100
58 56.5 44.9 67.3
57 19.8 15.3 22.9
100 12.8 10.0 15.0



#50
Dibromochloromethane
Concen: 25.225 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Tgt Ion: 129 Resp: 354819
Ion Ratio Lower Upper
129 100
127 77.8 51.1 94.9

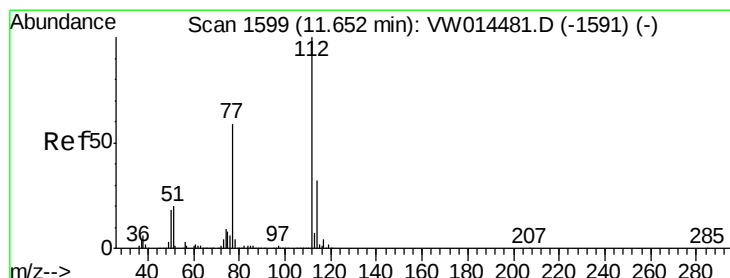
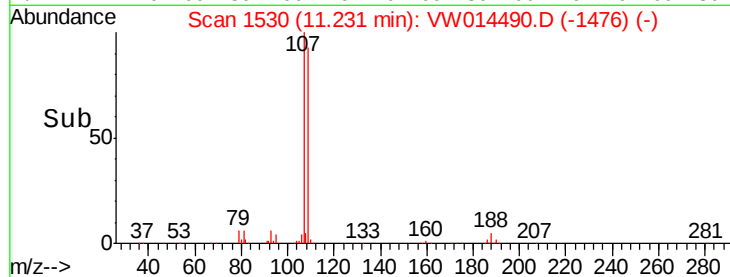
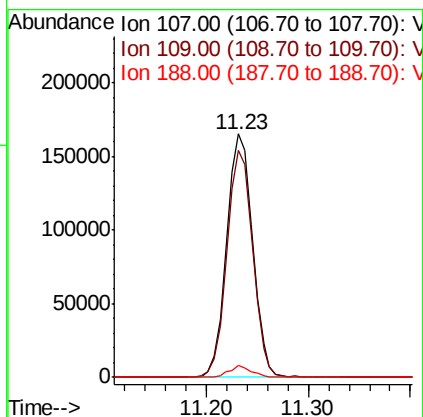
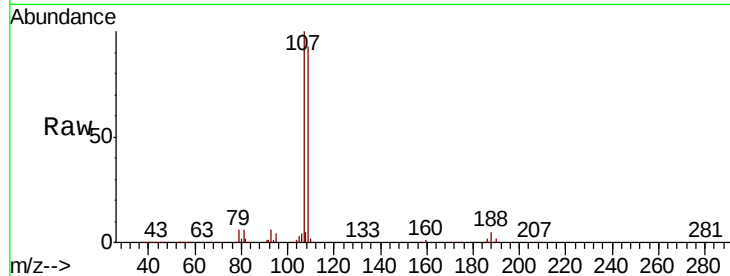




#51
1,2-Dibromoethane
Concen: 24.878 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

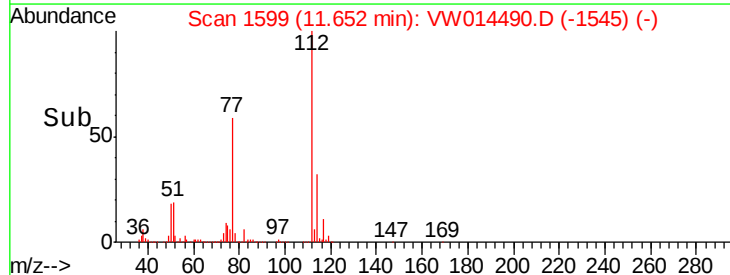
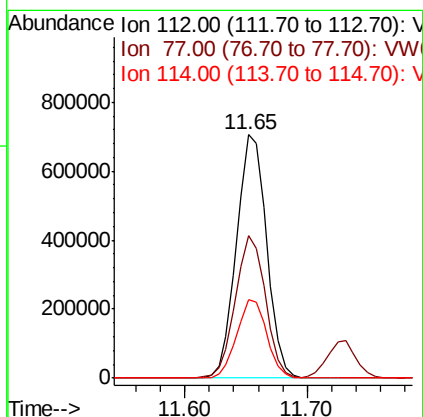
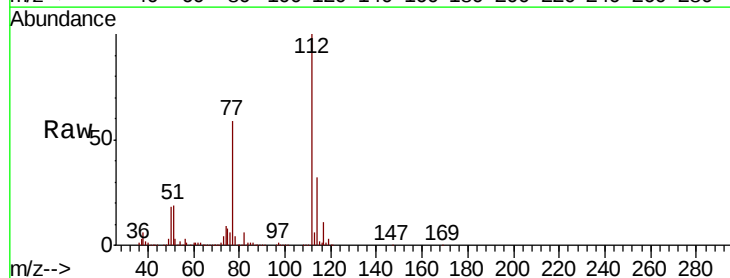
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

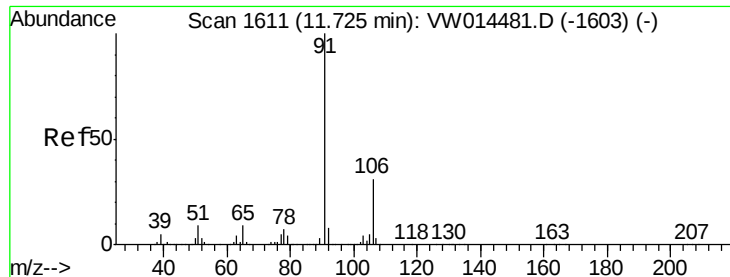
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.0	64.7	120.1
188	4.7	3.0	4.6#



#52
Chlorobenzene
Concen: 26.381 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Tgt Ion	Ratio	Lower	Upper
112	100		
77	58.8	48.2	72.2
114	32.1	22.9	42.5





#53

Ethylbenzene

Concen: 27.032 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

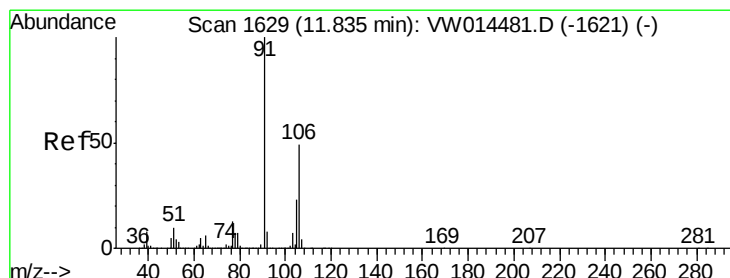
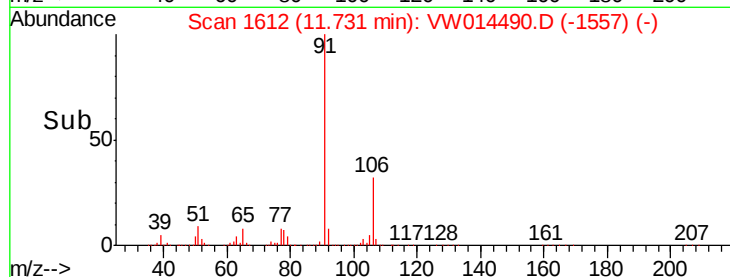
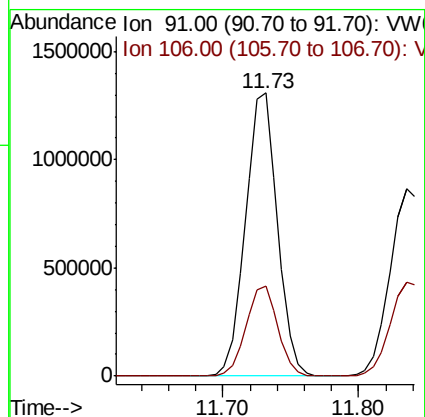
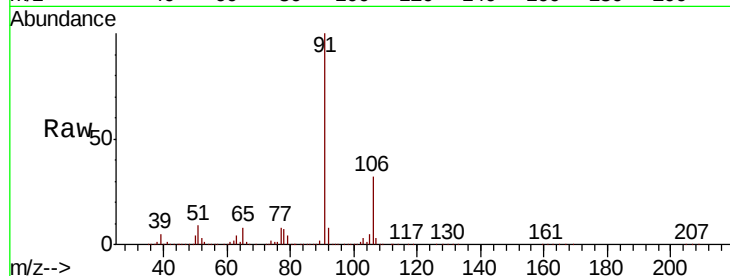
VSTD02510

Tot Ion: 91 Resp: 2146167

Ion Ratio Lower Upper

91 100

106 31.9 21.8 40.6



#54

m,p-Xylene

Concen: 27.540 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014490.D

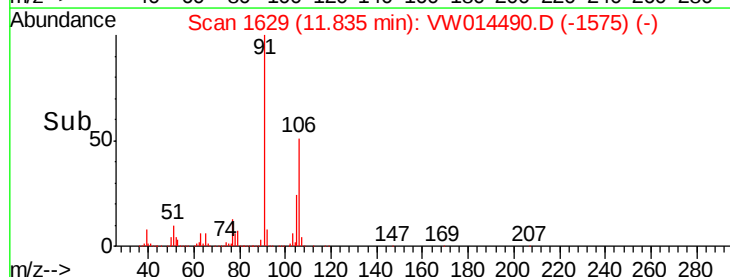
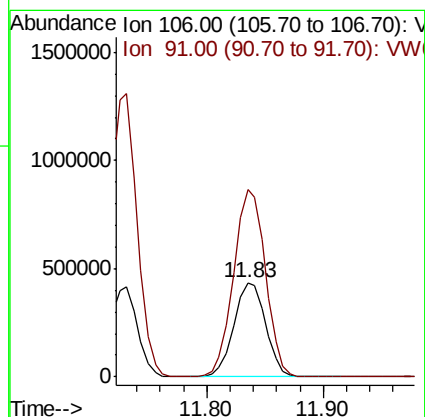
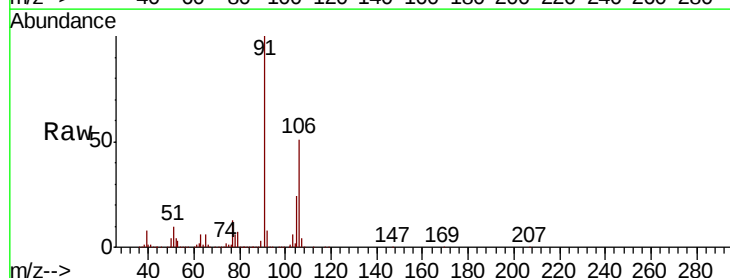
Acq: 28 Dec 2019 11:02

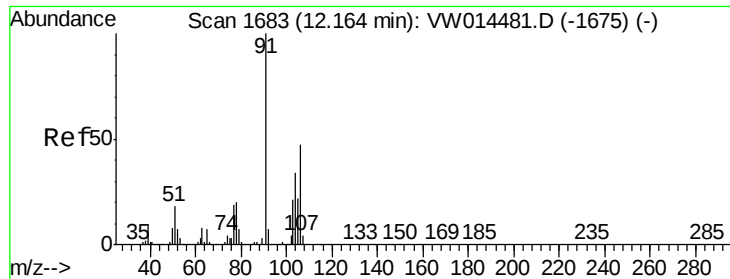
Tgt Ion: 106 Resp: 827415

Ion Ratio Lower Upper

106 100

91 198.0 142.2 264.0

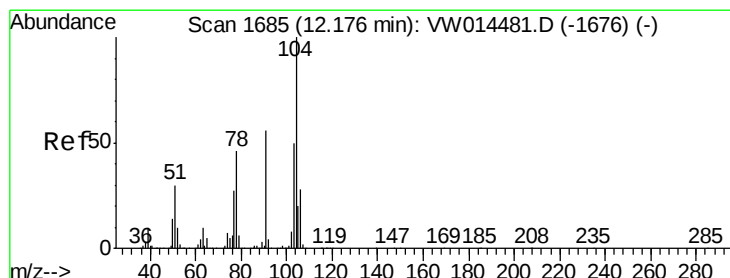
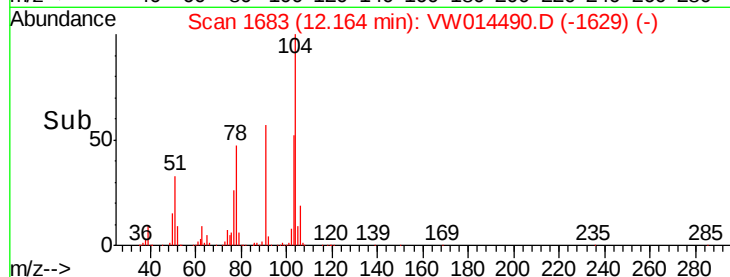
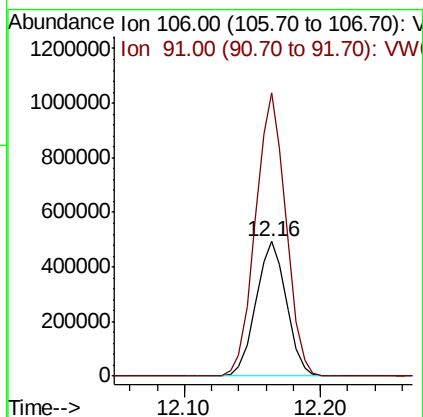
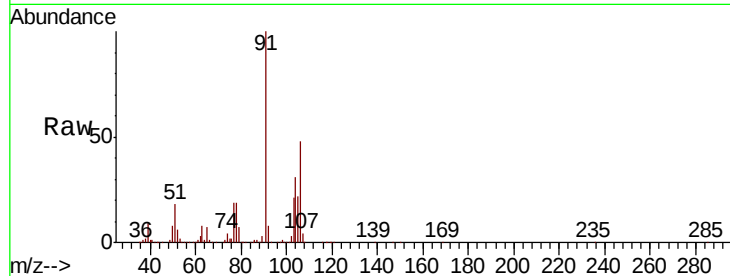




#55
o-xylene
Concen: 27.413 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

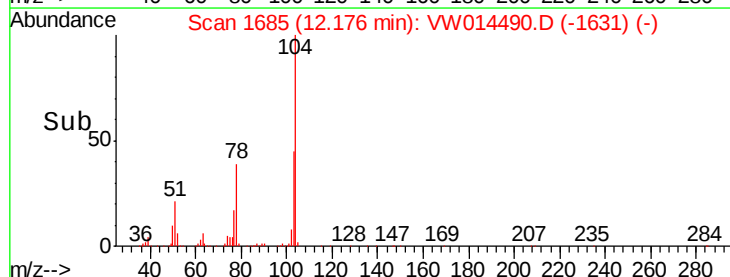
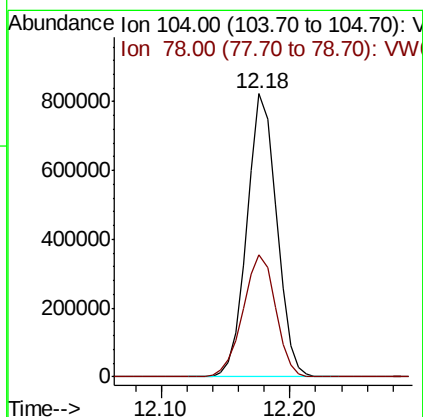
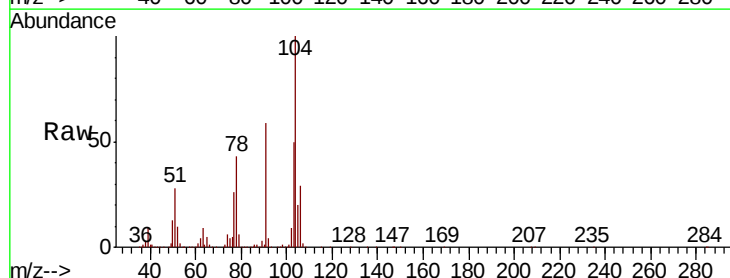
Instrument :
MSVOA_W
ClientSampled :
VSTD02510

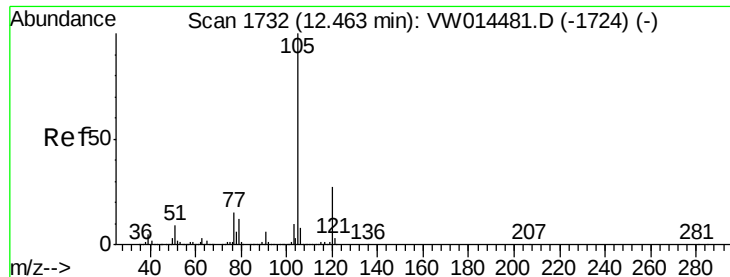
Tot Ion:106 Resp: 777964
Ion Ratio Lower Upper
106 100
91 210.3 148.7 276.1



#56
Styrene
Concen: 27.328 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW014490.D
Acq: 28 Dec 2019 11:02

Tgt Ion:104 Resp: 1305328
Ion Ratio Lower Upper
104 100
78 43.1 32.3 60.1





#57

Isopropylbenzene

Concen: 27.840 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

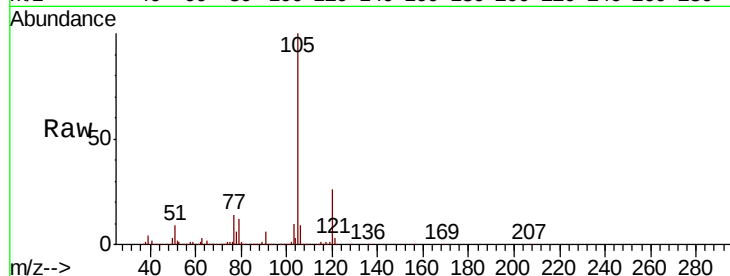
Tot Ion:105 Resp: 2101591

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.6

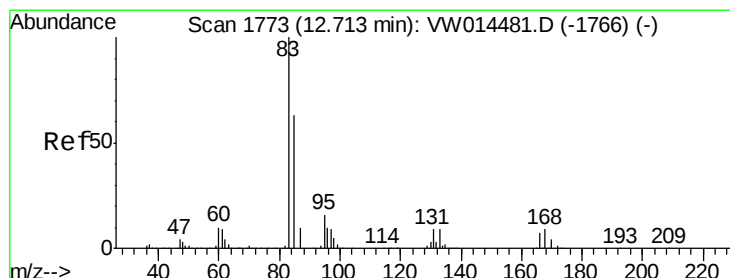
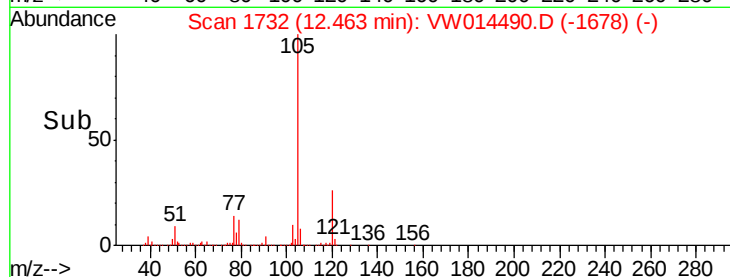
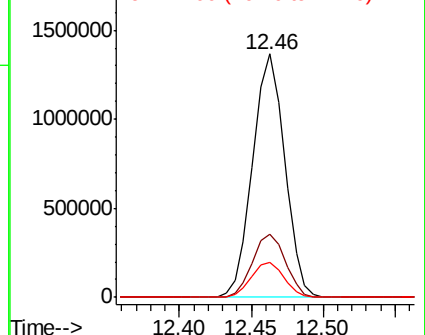
77 14.8 12.2 18.2



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: 22.982 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

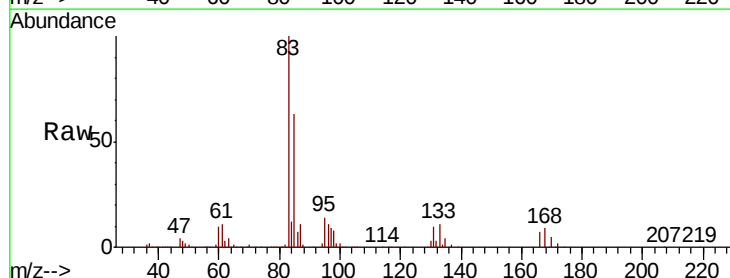
Tgt Ion: 83 Resp: 345673

Ion Ratio Lower Upper

83 100

85 63.1 45.3 84.1

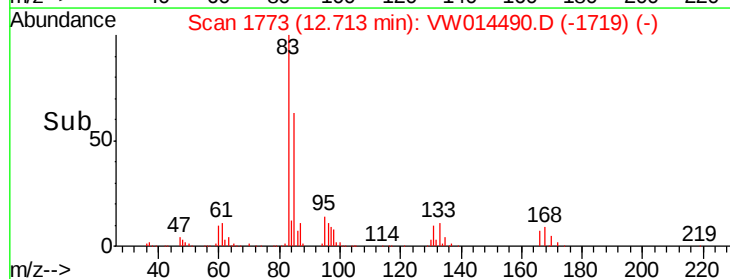
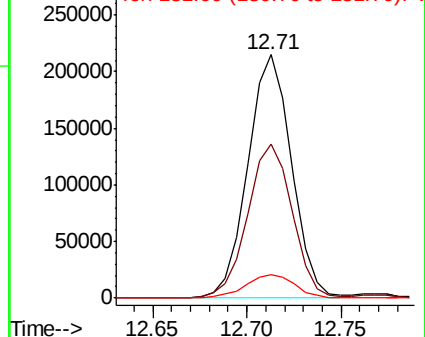
131 9.6 8.0 12.0

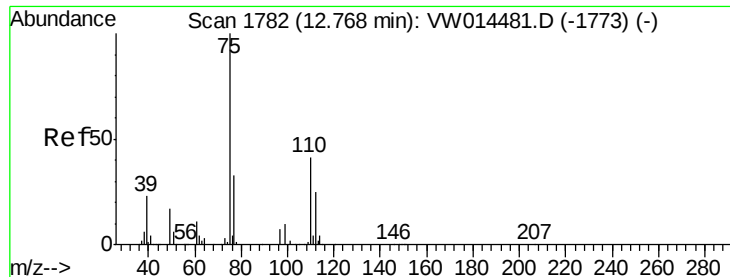


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.200 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

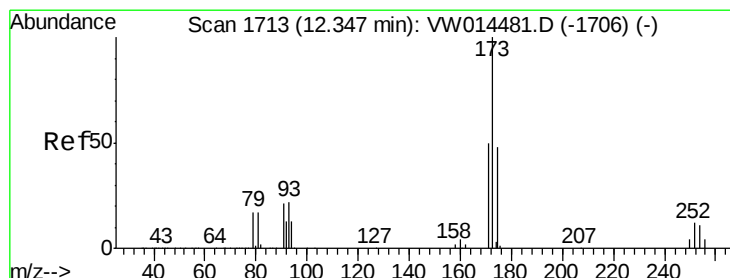
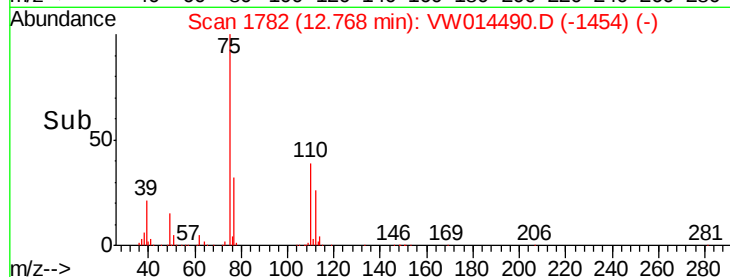
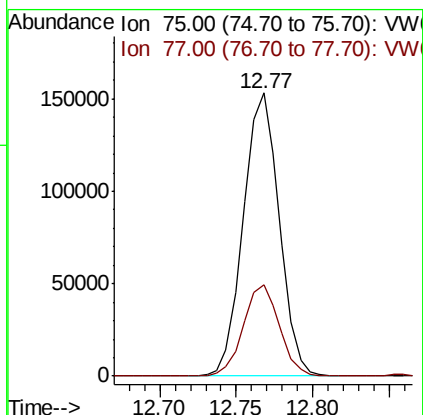
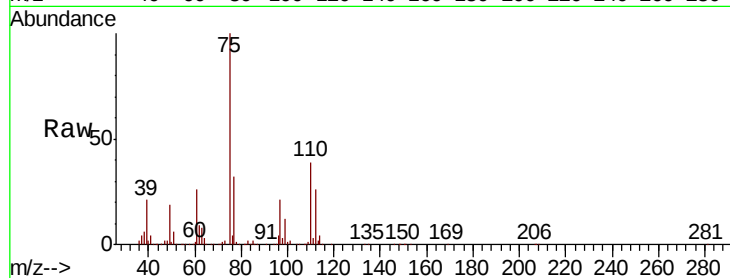
VSTD02510

Tot Ion: 75 Resp: 250135

Ion Ratio Lower Upper

75 100

77 32.0 26.2 39.2



#62

Bromoform

Concen: 24.130 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

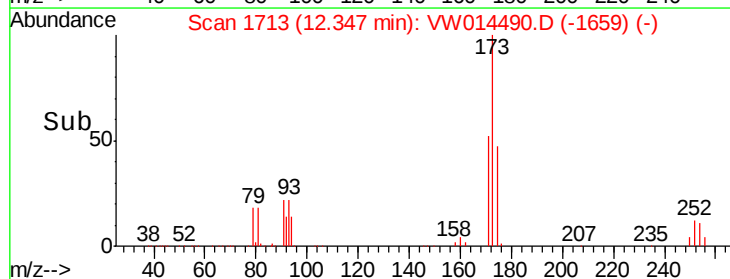
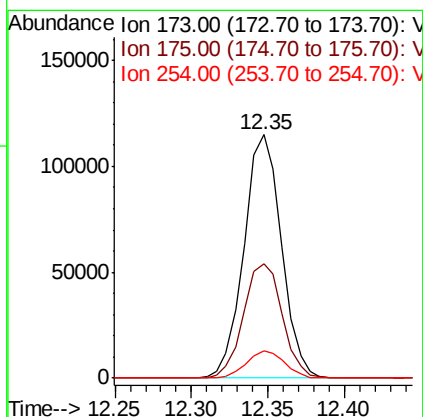
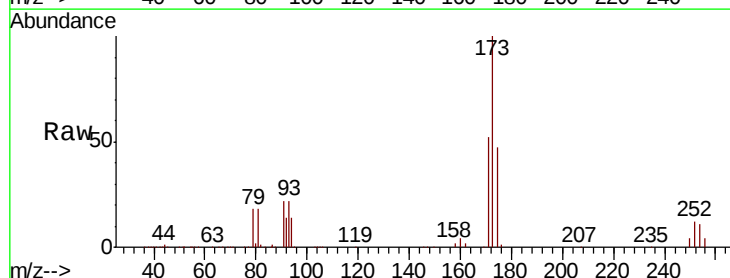
Tgt Ion: 173 Resp: 195587

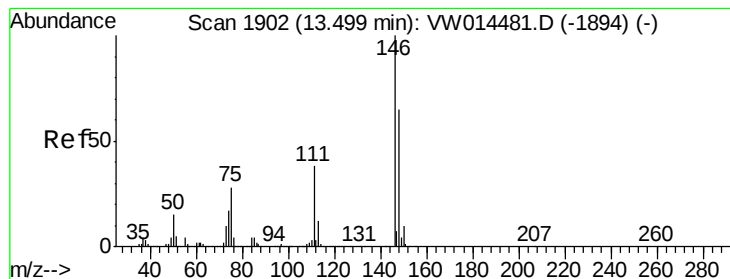
Ion Ratio Lower Upper

173 100

175 48.6 40.5 60.7

254 11.4 9.3 13.9





#63

1,3-Dichlorobenzene

Concen: 26.930 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

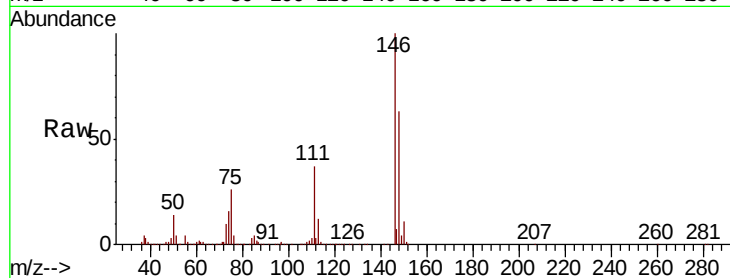
Tot Ion:146 Resp: 924833

Ion Ratio Lower Upper

146 100

111 37.2 26.9 50.1

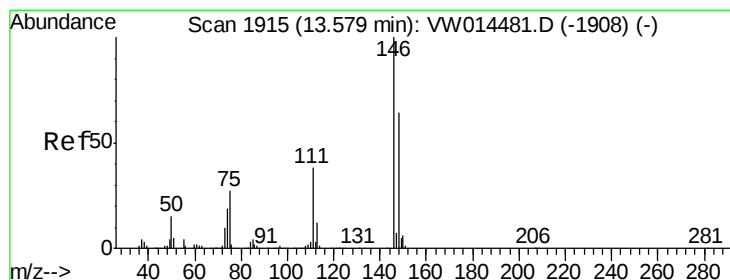
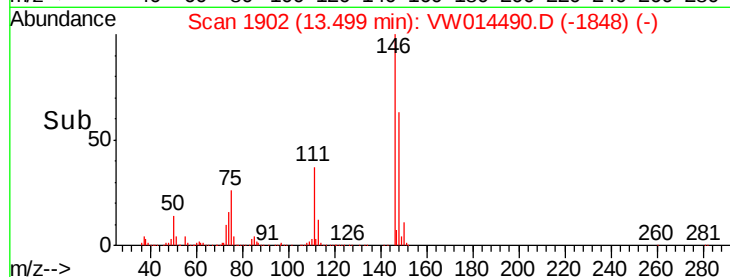
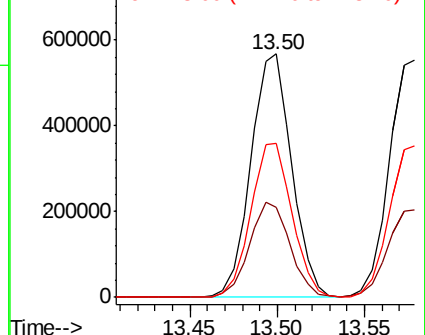
148 63.3 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 26.162 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

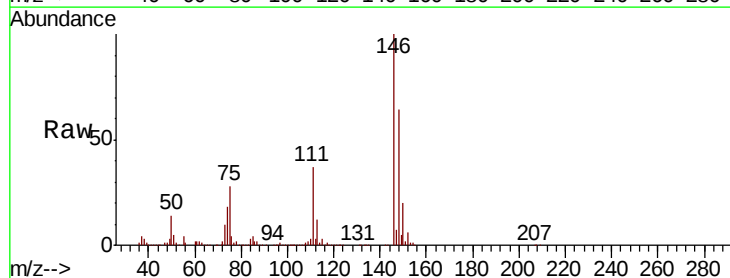
Tgt Ion:146 Resp: 905924

Ion Ratio Lower Upper

146 100

111 36.7 24.5 45.5

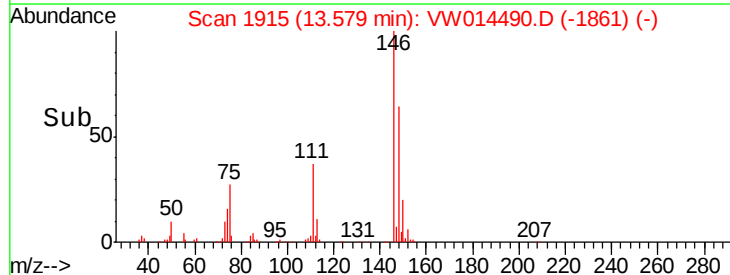
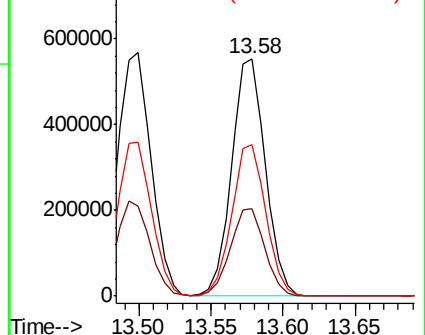
148 63.6 44.4 82.4

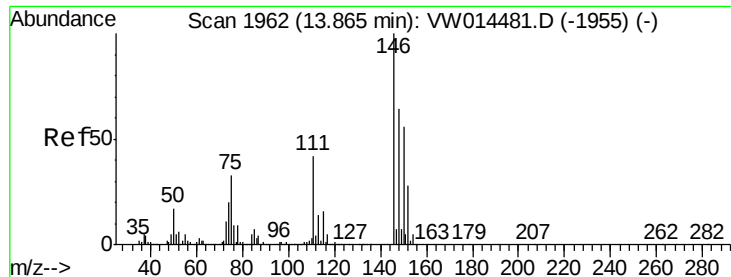


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

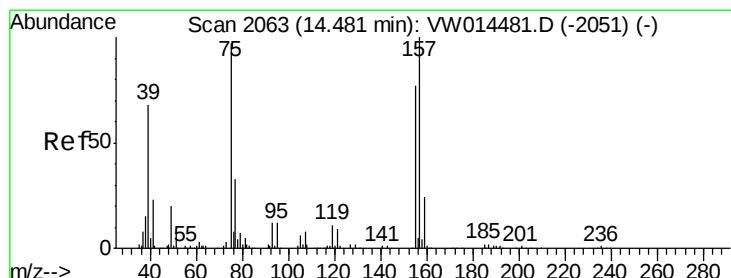
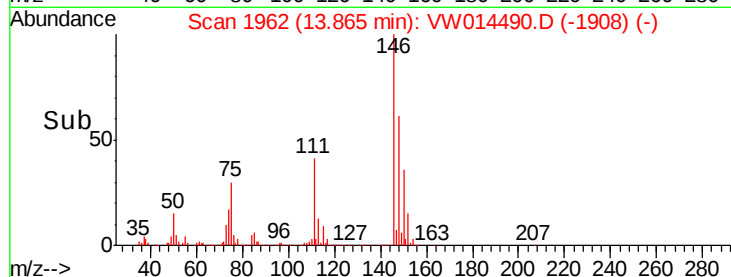
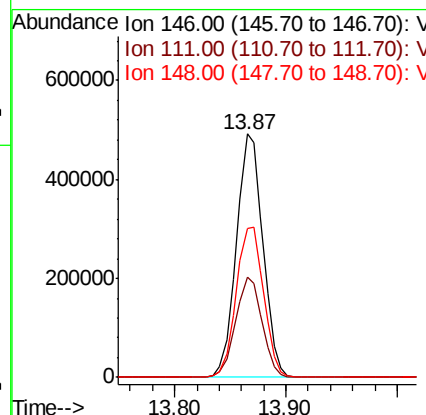
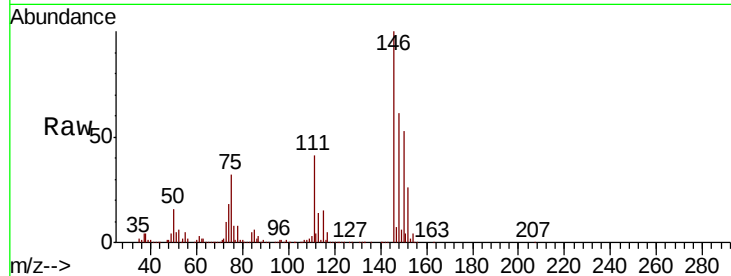




#65
 1,2-Dichlorobenzene
 Concen: 26.289 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.00 min
 Lab File: VW014490.D
 Acq: 28 Dec 2019 11:02

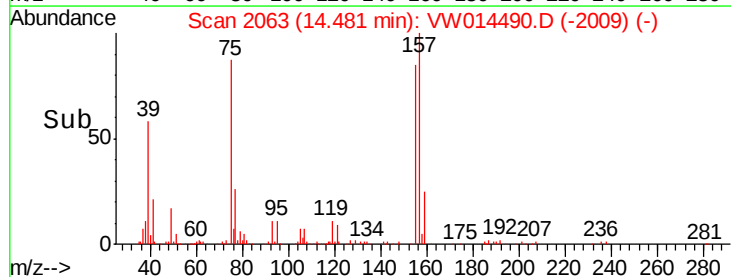
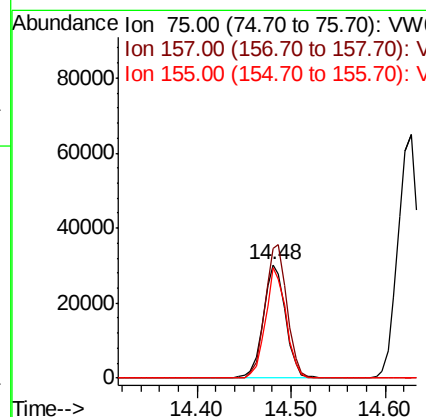
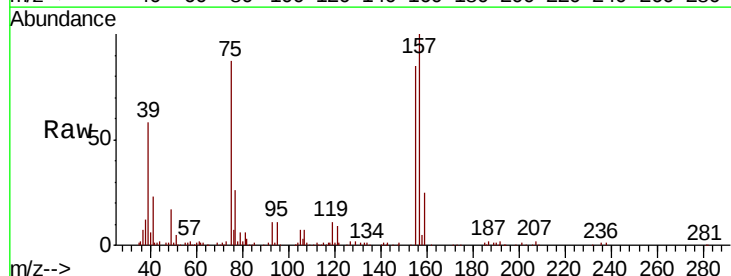
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

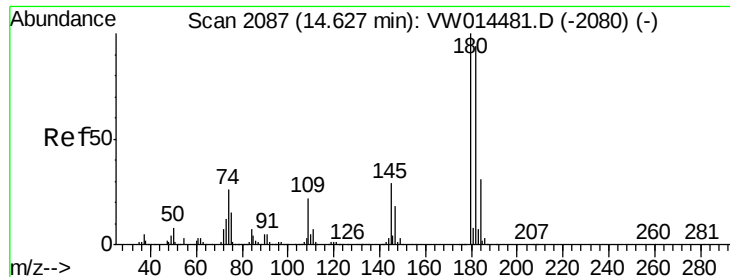
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	34.2	51.2
148	61.1	51.8	77.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.161 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014490.D
 Acq: 28 Dec 2019 11:02

Tgt Ion	Ratio	Lower	Upper
75	100		
157	114.4	87.2	130.8
155	97.5	67.8	101.8

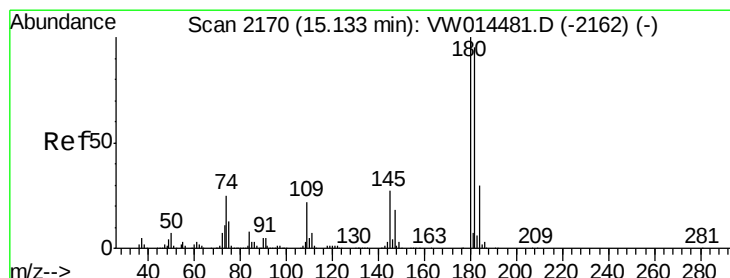
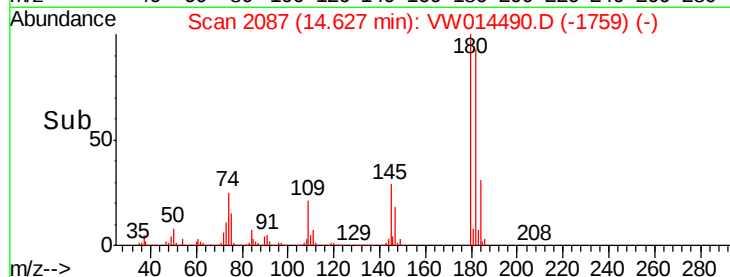
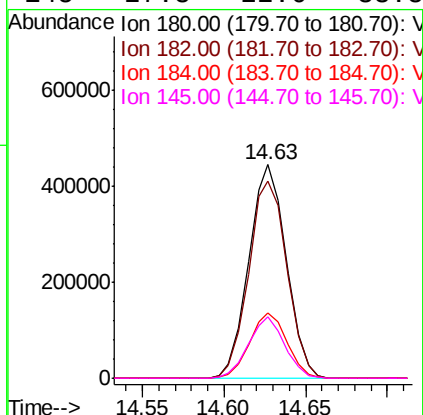
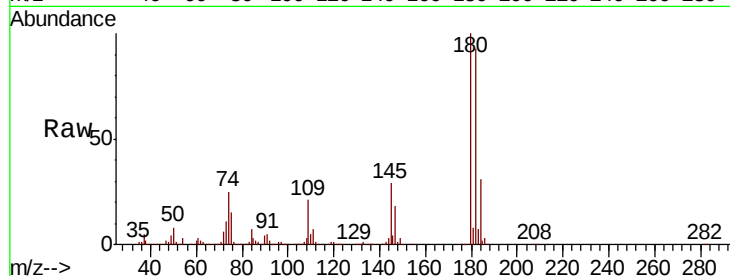




#67
 1,3,5-Trichlorobenzene
 Concen: 27.844 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014490.D
 Acq: 28 Dec 2019 11:02

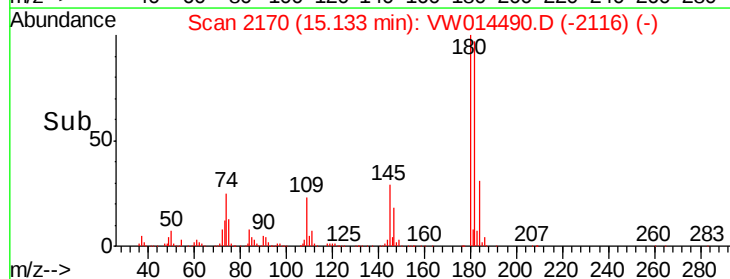
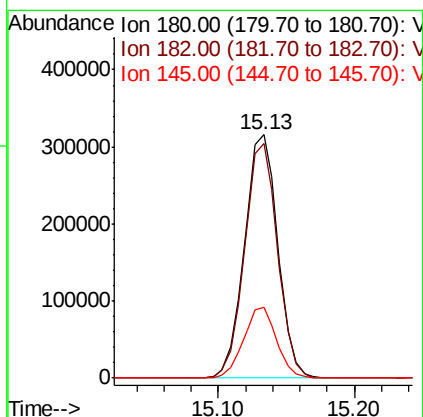
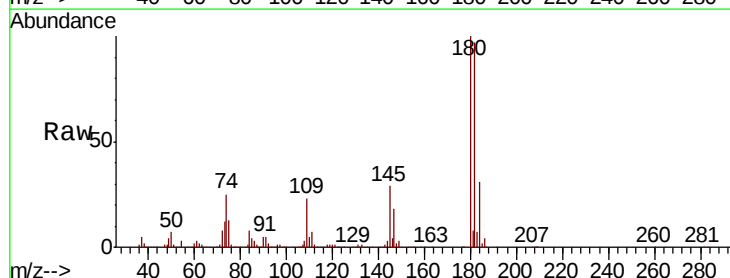
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

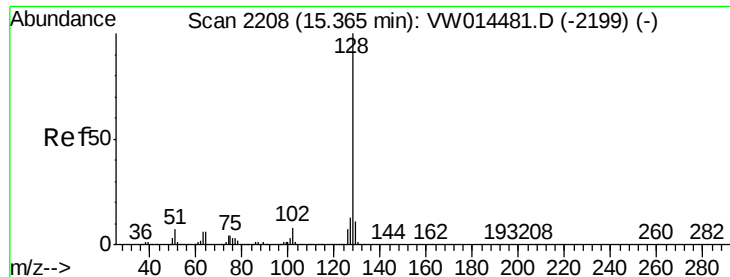
Tot Ion:180	Resp:	708345
Ion	Ratio	Lower Upper
180	100	
182	94.5	75.8 113.6
184	30.6	24.0 36.0
145	27.8	22.6 33.8



#68
 1,2,4-trichlorobenzene
 Concen: 28.349 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014490.D
 Acq: 28 Dec 2019 11:02

Tgt Ion:180	Resp:	540628
Ion	Ratio	Lower Upper
180	100	
182	95.6	76.2 114.4
145	28.9	23.1 34.7





#69

Naphthalene

Concen: 27.286 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

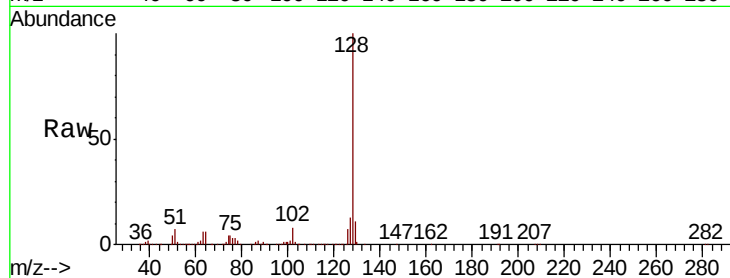
Tot Ion:128 Resp: 898325

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

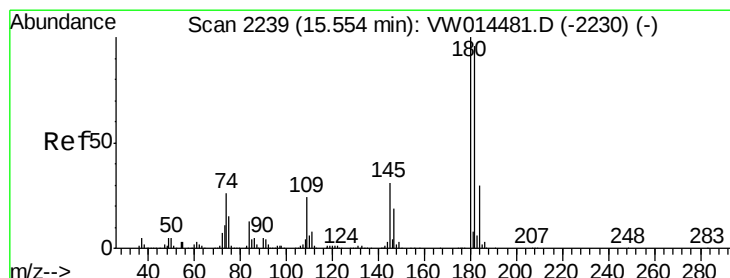
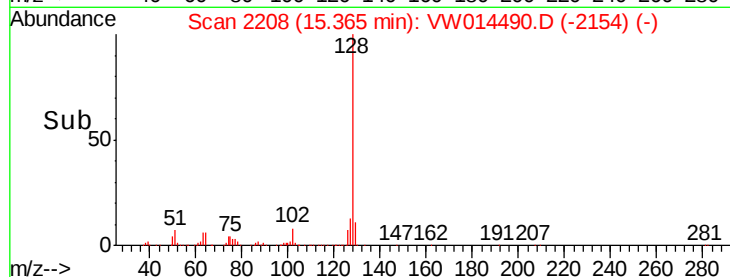
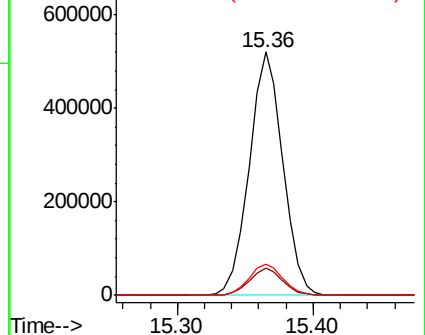
127 12.9 10.6 16.0



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: 27.034 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014490.D

Acq: 28 Dec 2019 11:02

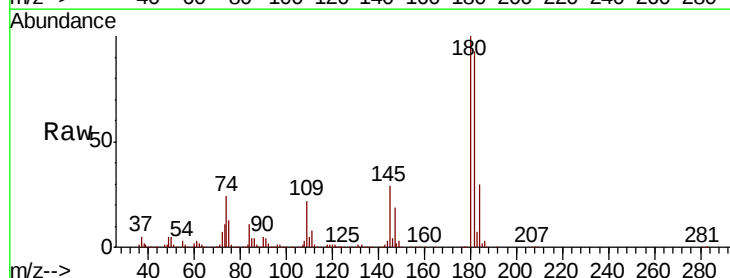
Tgt Ion:180 Resp: 467171

Ion Ratio Lower Upper

180 100

182 95.0 77.0 115.6

145 30.8 24.9 37.3



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

