

Data File : VW011552.D
Acq On : 29 Jul 2019 10:38
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

Quant Time: Jul 30 05:54:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072219S.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 26 01:06:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	379815	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	329739	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	161782	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	114527	22.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.36%
7) Chloroethane-d5	2.89	69	87706	23.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.96%
10) 1,1-Dichloroethene-d2	4.02	63	275332	23.97	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.88%
20) 2-Butanone-d5	7.07	46	142246	65.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	131.76%
24) Chloroform-d	7.65	84	251621	25.87	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.48%
26) 1,2-Dichloroethane-d4	8.31	65	150928	26.10	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.40%
29) Benzene-d6	8.27	84	497120	25.21	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.84%
33) 1,2-Dichloropropane-d6	9.27	67	163105	25.52	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.08%
37) Toluene-d8	10.32	98	438778	24.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.32%
38) trans-1,3-Dichloropropene-	10.57	79	74389	26.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	107.80%
39) 2-Hexanone-d5	10.92	63	95666	69.06	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	138.12%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	152824	29.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	119.72%
61) 1,2-Dichlorobenzene-d4	13.85	152	150961	24.85	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	125824	27.157	ug/L	98
3) Chloromethane	2.21	50	131410	23.376	ug/L	99
5) Vinyl chloride	2.36	62	174408	26.343	ug/L	100
6) Bromomethane	2.78	94	79463	24.861	ug/L	97
8) Chloroethane	2.92	64	90396	25.641	ug/L	100
9) Trichlorofluoromethane	3.26	101	87482	27.782	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	133608	26.438	ug/L	99
12) 1,1-Dichloroethene	4.04	96	132308	26.226	ug/L	95
13) Acetone	4.12	43	154337	67.563	ug/L	97
14) Carbon disulfide	4.38	76	418141	25.564	ug/L	100
15) Methyl Acetate	4.67	43	111825	31.881	ug/L	99
16) Methylene chloride	4.92	84	136498	24.688	ug/L	99
17) Methyl tert-butyl Ether	5.42	73	224328	28.126	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	135920	26.126	ug/L	100
19) 1,1-Dichloroethane	6.21	63	269354	26.066	ug/L	98
21) 2-Butanone	7.17	43	186873	63.656	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	141404	25.658	ug/L	95

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	60051	26.071	ug/L	98
25) Chloroform	7.67	83	244228	25.657	ug/L	99
27) 1,2-Dichloroethane	8.40	62	184179	26.546	ug/L	99
30) Cyclohexane	7.95	56	284083	26.449	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	197076	26.849	ug/L	99
32) Carbon tetrachloride	8.07	117	186308	27.313	ug/L	99
34) Benzene	8.32	78	566599	26.471	ug/L	100
35) Trichloroethene	9.09	95	143068	26.298	ug/L	99
36) Methylcyclohexane	9.34	83	267491	27.040	ug/L	99
40) 1,2-Dichloropropane	9.37	63	150709	26.207	ug/L	100
41) Bromodichloromethane	9.64	83	177272	26.365	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	230038	26.626	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	310004	62.969	ug/L	100
44) Toluene	10.38	91	582429	26.528	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	192924	27.171	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	104256	27.084	ug/L	98
47) Tetrachloroethene	10.86	164	108827	26.074	ug/L	96
49) 2-Hexanone	10.97	43	254140	68.388	ug/L	100
50) Dibromochloromethane	11.13	129	115760	27.167	ug/L	99
51) 1,2-Dibromoethane	11.23	107	103718	27.861	ug/L	100
52) Chlorobenzene	11.66	112	342200	25.846	ug/L	98
53) Ethylbenzene	11.73	91	649618	26.290	ug/L	100
54) m,p-Xylene	11.84	106	236508	26.135	ug/L	98
55) o-xylene	12.16	106	224718	26.347	ug/L	99
56) Styrene	12.18	104	385140	26.843	ug/L	99
57) Isopropylbenzene	12.46	105	615843	26.508	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	145922	29.182	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	114341	29.929	ug/L	100
62) Bromoform	12.35	173	71422	27.892	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	260801	25.457	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	263253	25.299	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	239384	25.395	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	27971	31.131	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	199611	25.542	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	165618	25.571	ug/L	99
69) Naphthalene	15.36	128	377119	28.603	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	152255	25.948	ug/L	99

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

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ClientSampleId :
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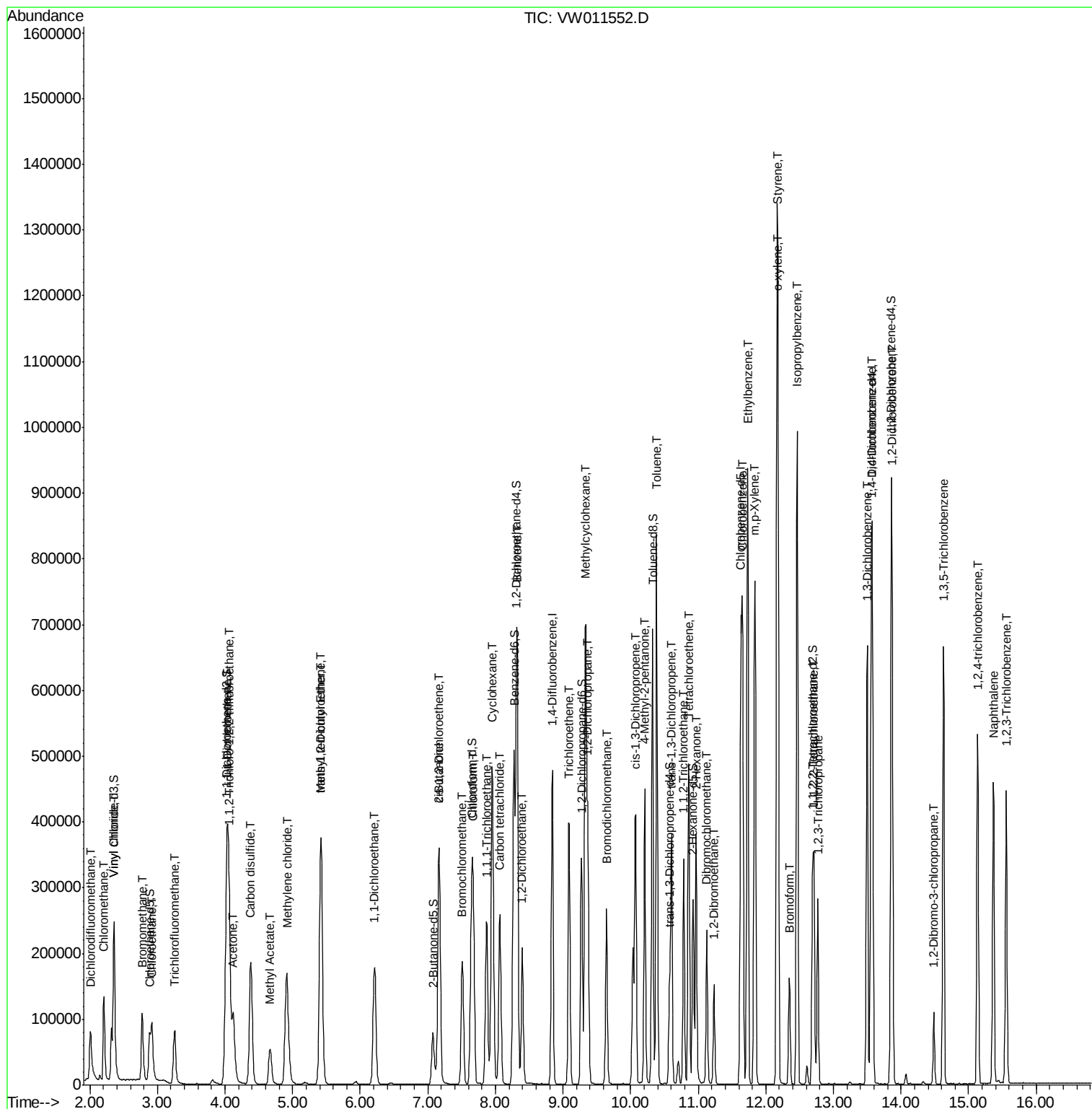
Quant Time: Jul 30 05:54:24 2019

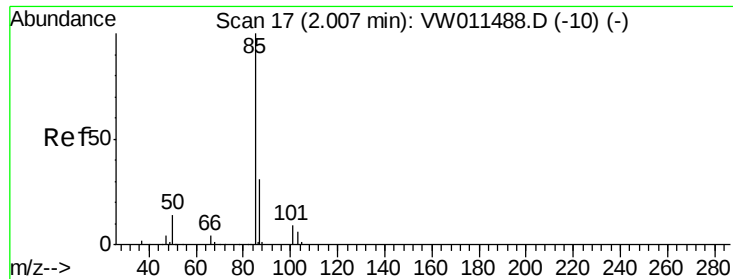
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072219S.M

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#2

Dichlorodifluoromethane

Concen: 27.157 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

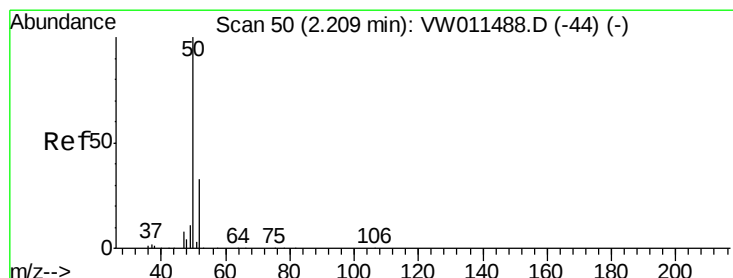
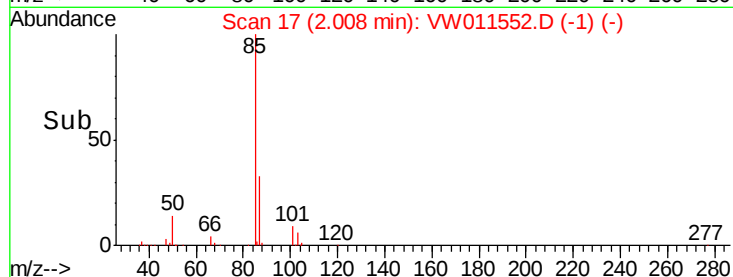
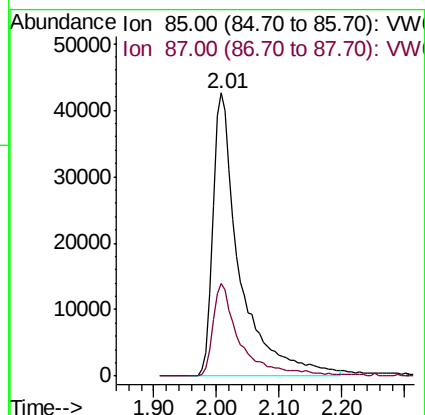
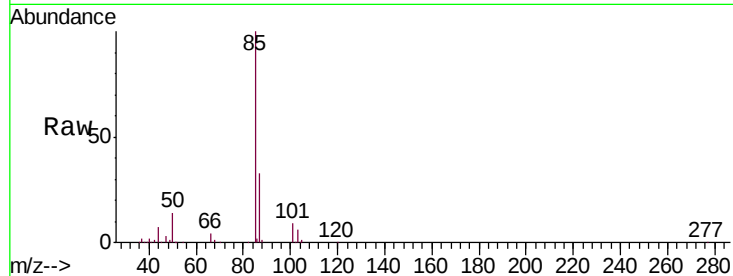
VSTD02521

Tgt Ion: 85 Resp: 125824

Ion Ratio Lower Upper

85 100

87 28.2 20.6 38.2



#3

Chloromethane

Concen: 23.376 ug/L

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011552.D

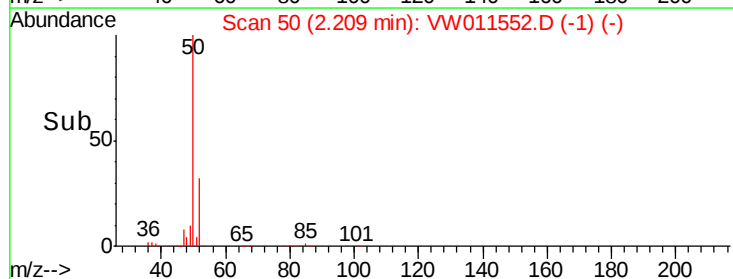
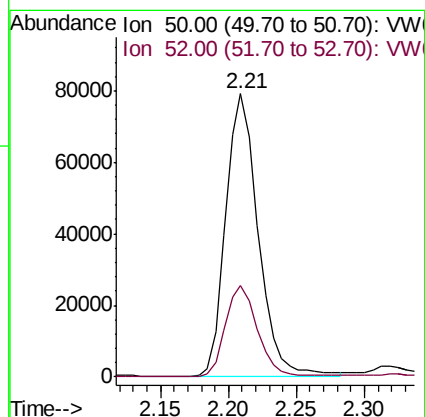
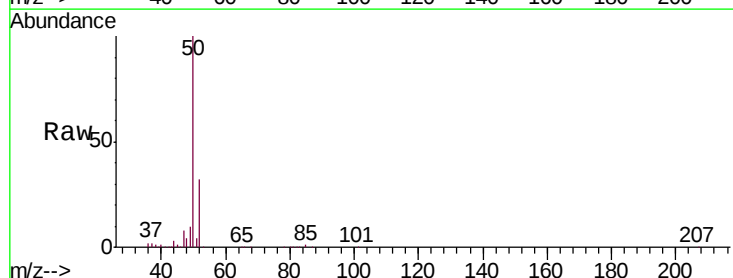
Acq: 29 Jul 2019 10:38

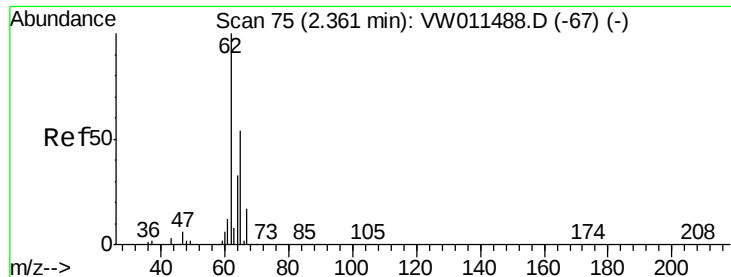
Tgt Ion: 50 Resp: 131410

Ion Ratio Lower Upper

50 100

52 32.2 22.0 41.0





#5

Vinyl chloride

Concen: 26.343 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

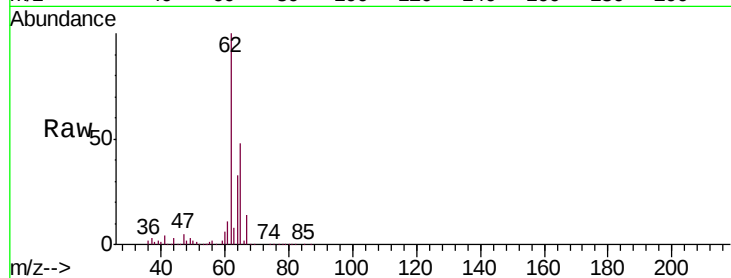
VSTD02521

Tgt Ion: 62 Resp: 174408

Ion Ratio Lower Upper

62 100

64 33.4 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW

2.36

100000

80000

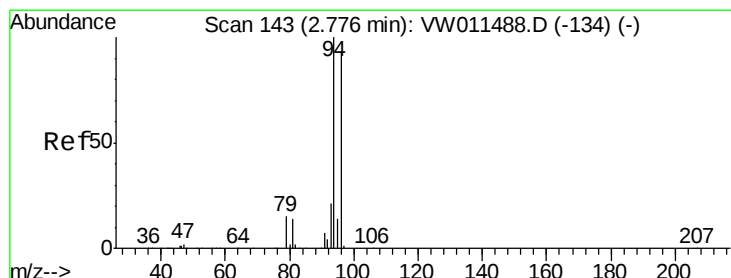
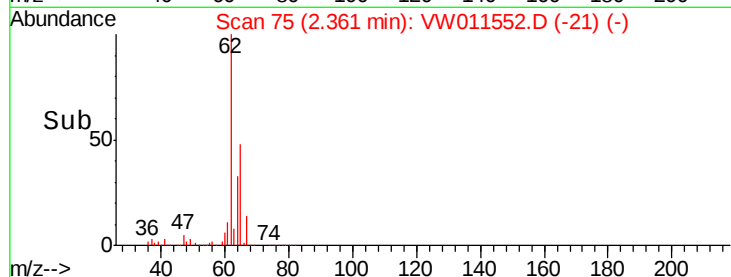
60000

40000

20000

0

Time--> 2.25 2.30 2.35 2.40 2.45



#6

Bromomethane

Concen: 24.861 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW011552.D

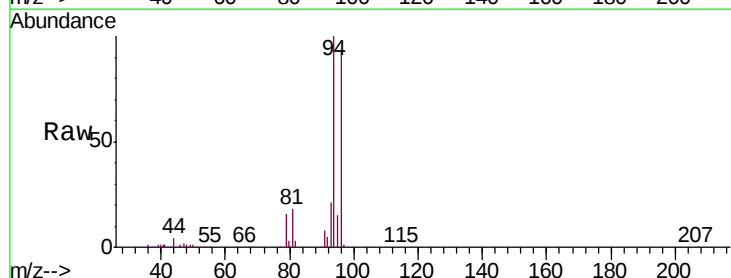
Acq: 29 Jul 2019 10:38

Tgt Ion: 94 Resp: 79463

Ion Ratio Lower Upper

94 100

96 90.9 9.4 178.8



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

2.78

40000

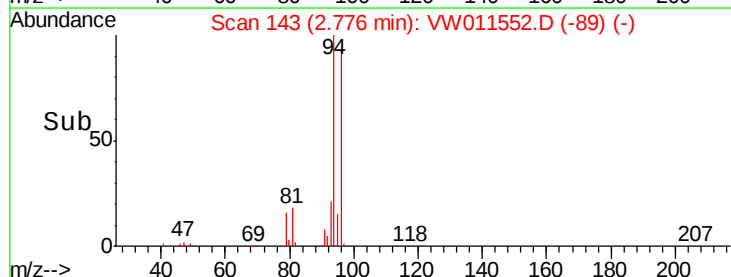
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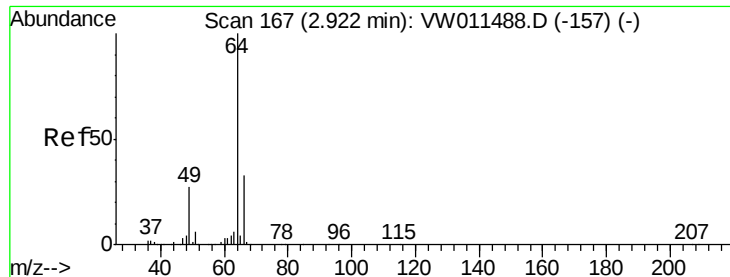
20000

10000

0

Time--> 2.70 2.80 2.90





#8

Chloroethane

Concen: 25.641 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

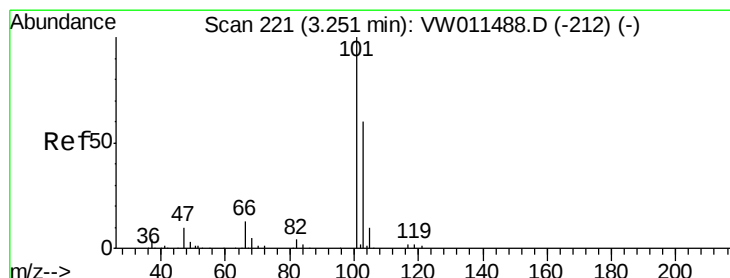
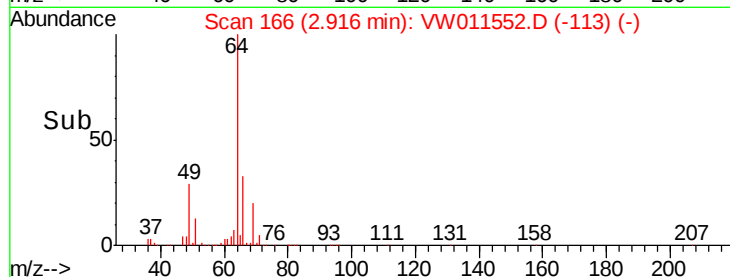
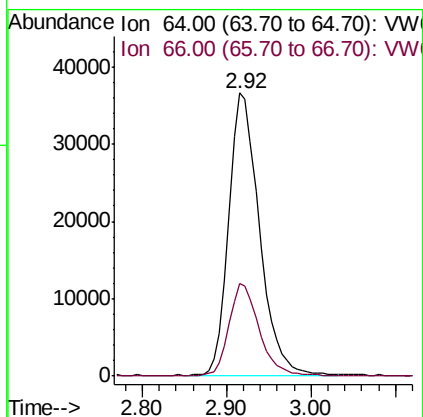
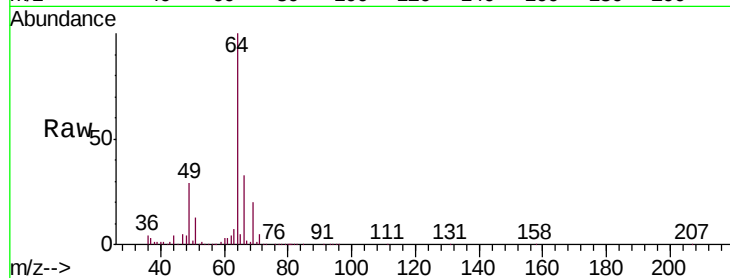
VSTD02521

Tgt Ion: 64 Resp: 90396

Ion Ratio Lower Upper

64 100

66 32.6 22.7 42.3



#9

Trichlorofluoromethane

Concen: 27.782 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW011552.D

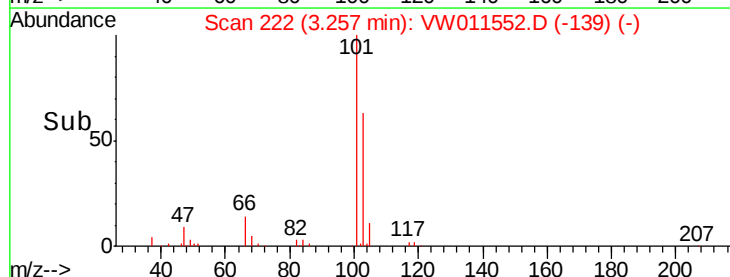
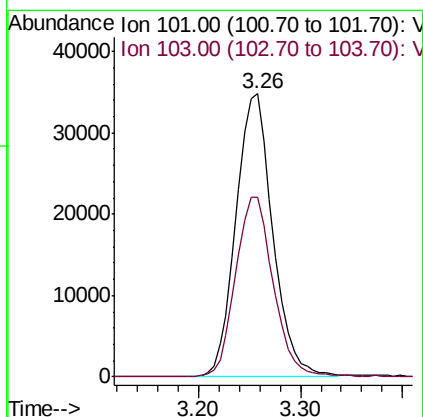
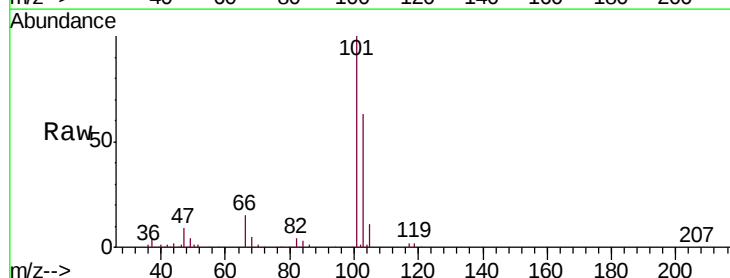
Acq: 29 Jul 2019 10:38

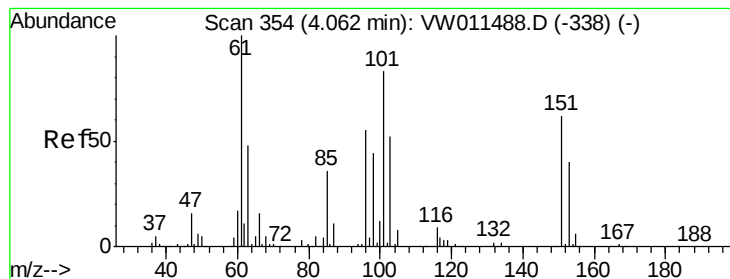
Tgt Ion: 101 Resp: 87482

Ion Ratio Lower Upper

101 100

103 64.8 45.2 84.0





#11

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

Concen: 26.438 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

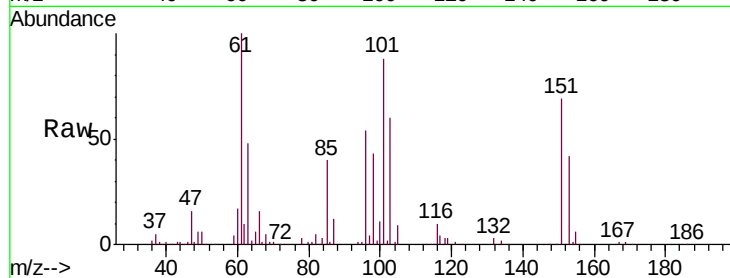
Tgt Ion: 101 Resp: 133608

Ion Ratio Lower Upper

101 100

85 45.3 35.2 52.8

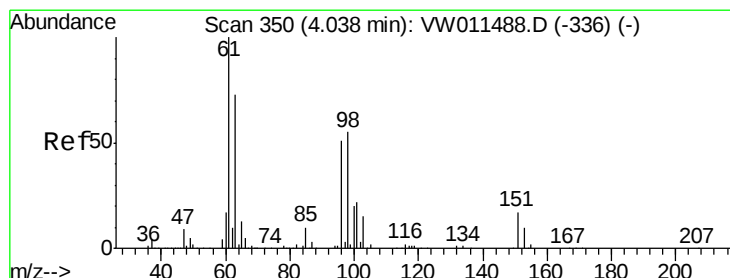
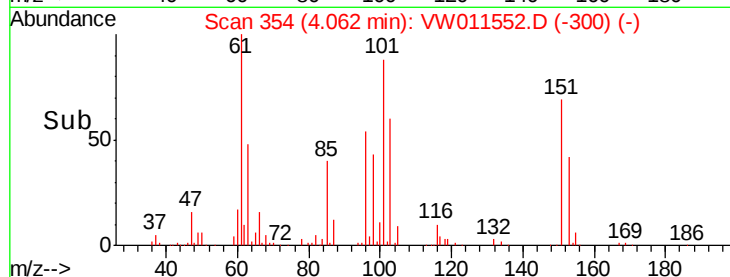
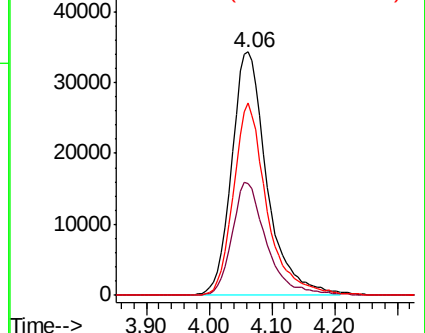
151 74.1 58.6 87.8



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: 26.226 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

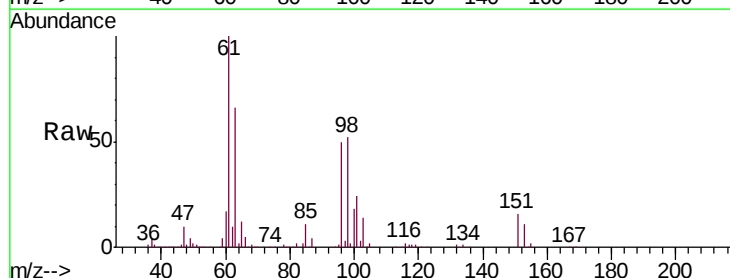
Tgt Ion: 96 Resp: 132308

Ion Ratio Lower Upper

96 100

61 199.9 133.2 247.4

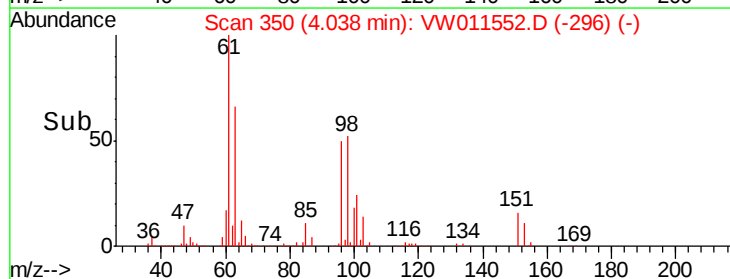
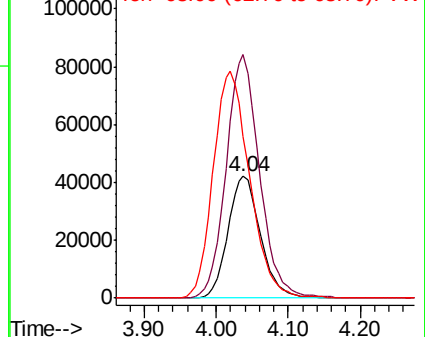
63 132.9 89.9 166.9

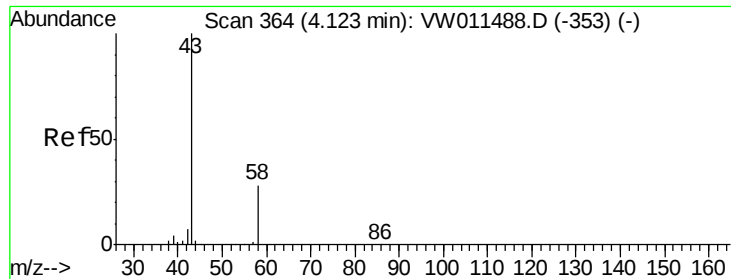


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 67.563 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

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ClientSampleId :

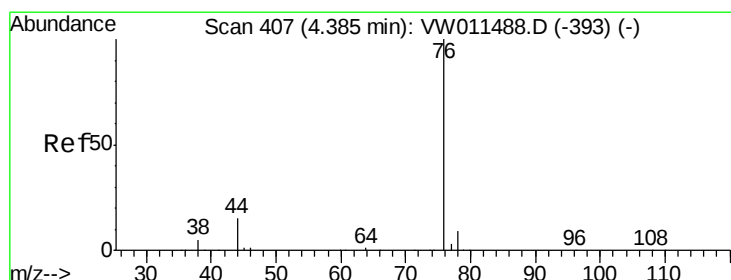
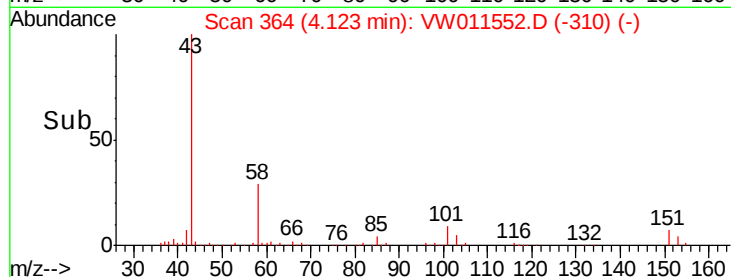
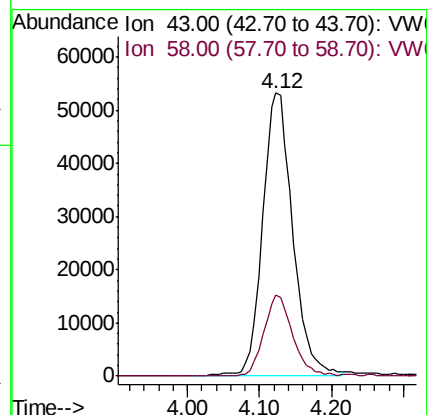
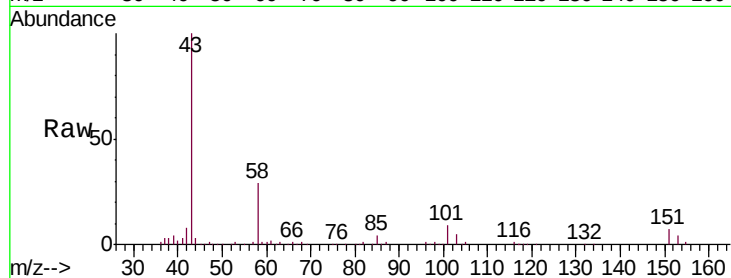
VSTD02521

Tgt Ion: 43 Resp: 154337

Ion Ratio Lower Upper

43 100

58 27.2 0.0 57.2



#14

Carbon disulfide

Concen: 25.564 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW011552.D

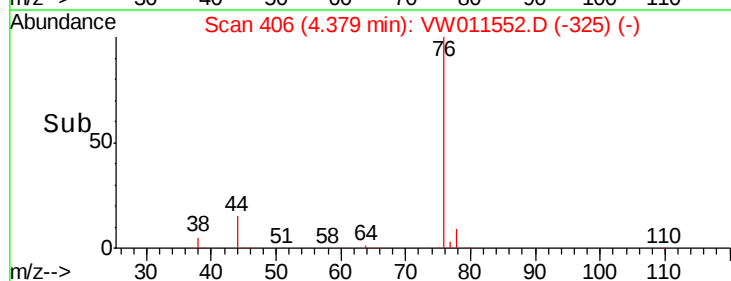
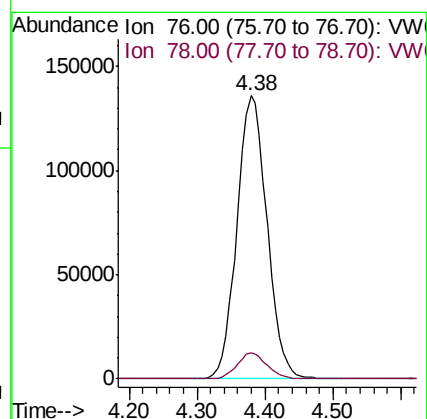
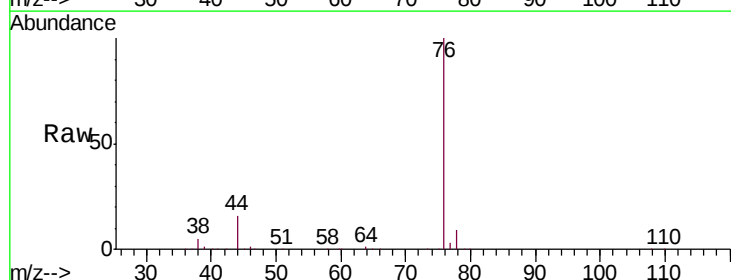
Acq: 29 Jul 2019 10:38

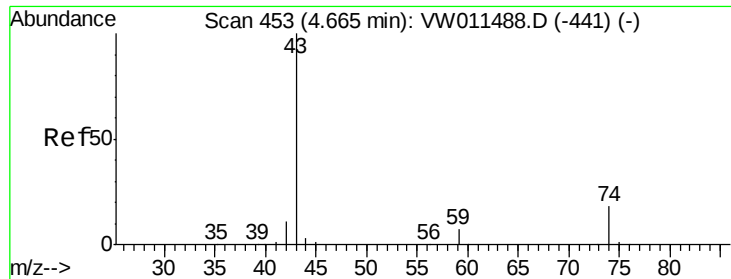
Tgt Ion: 76 Resp: 418141

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

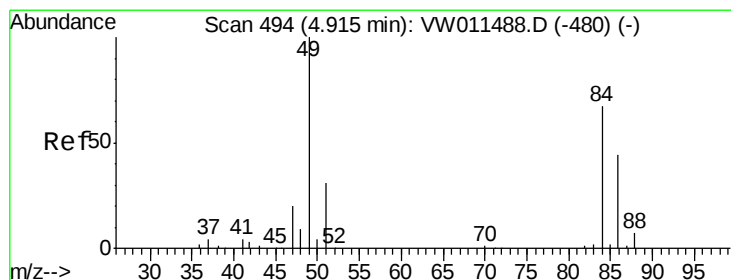
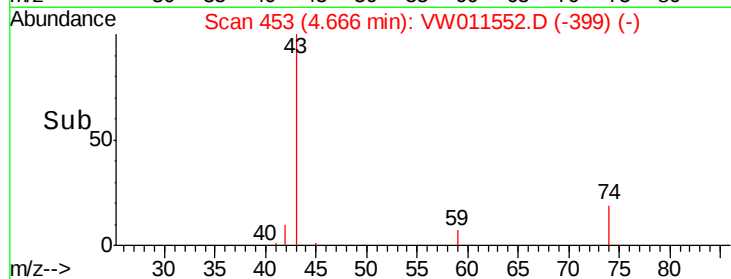
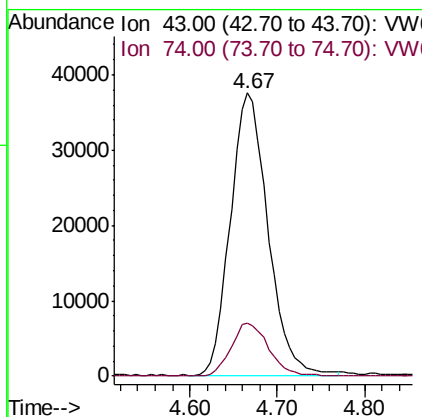
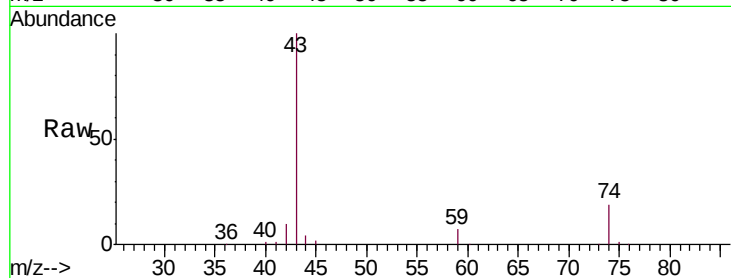




#15
Methyl Acetate
Concen: 31.881 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

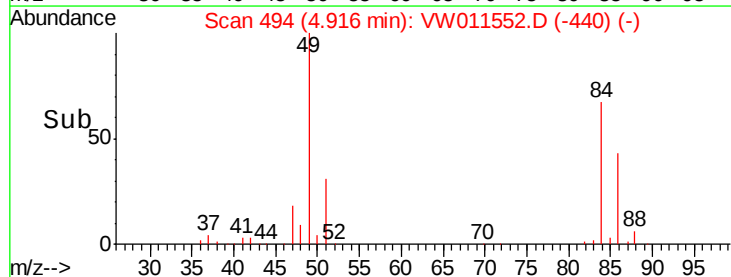
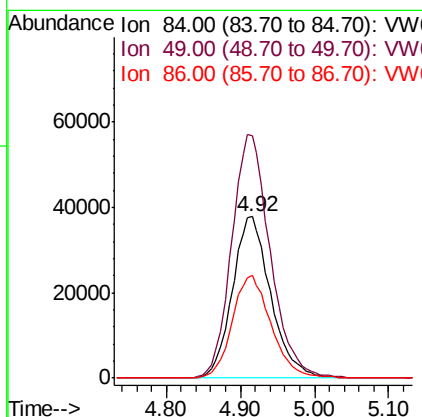
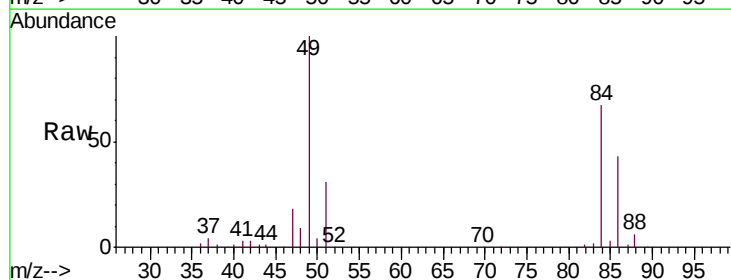
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

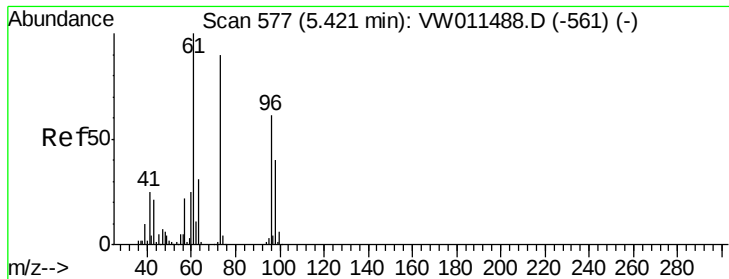
Tgt Ion: 43 Resp: 111825
Ion Ratio Lower Upper
43 100
74 18.7 15.2 22.8



#16
Methylene chloride
Concen: 24.688 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Tgt Ion: 84 Resp: 136498
Ion Ratio Lower Upper
84 100
49 149.6 104.0 193.2
86 63.9 44.0 81.8

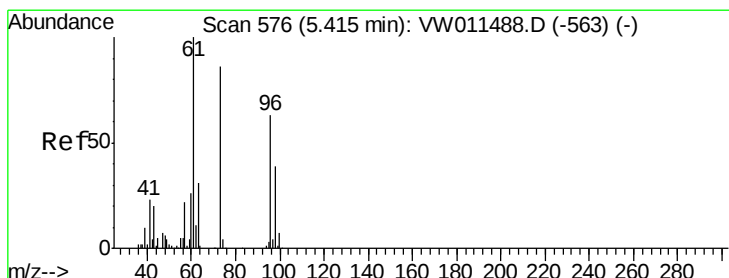
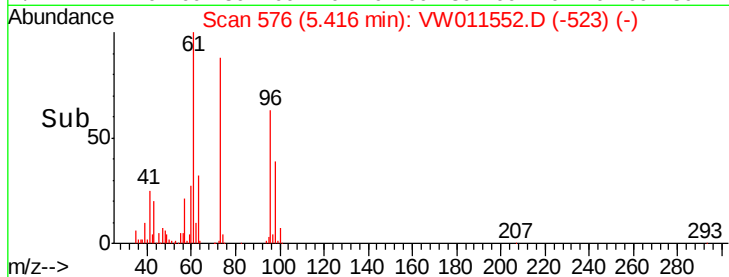
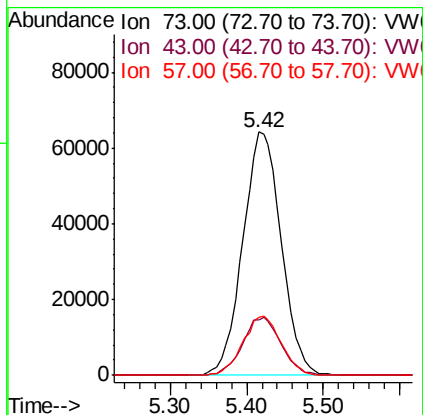
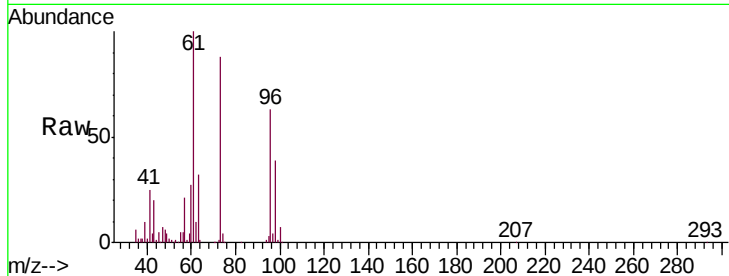




#17
Methyl tert-butyl Ether
Concen: 28.126 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

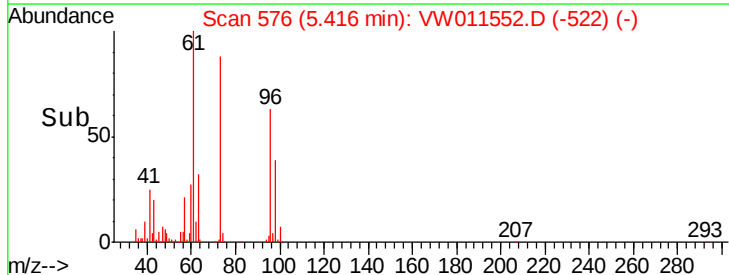
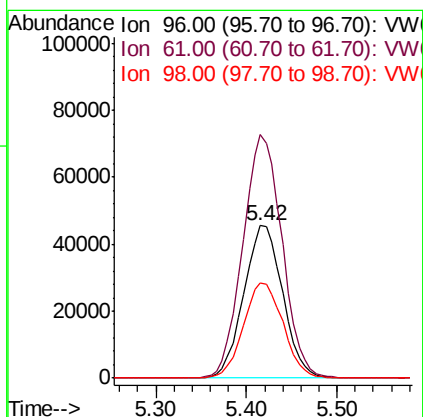
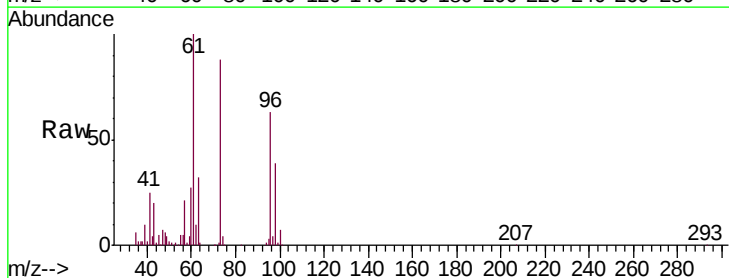
Instrument :
MSVOA_W
ClientSampled :
VSTD02521

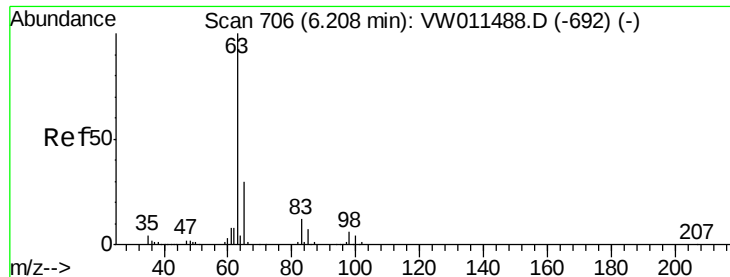
Tgt Ion: 73 Resp: 224328
Ion Ratio Lower Upper
73 100
43 23.9 19.0 28.4
57 24.2 19.8 29.6



#18
trans-1,2-Dichloroethene
Concen: 26.126 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Tgt Ion: 96 Resp: 135920
Ion Ratio Lower Upper
96 100
61 159.9 111.7 207.5
98 62.6 43.4 80.6

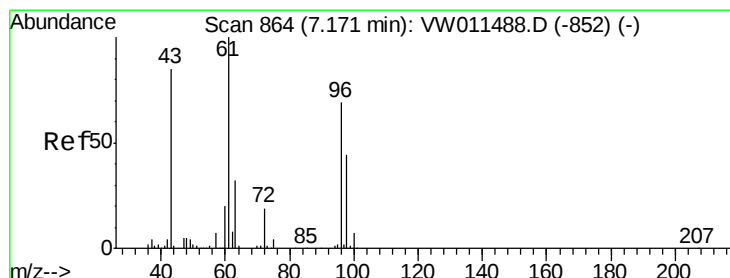
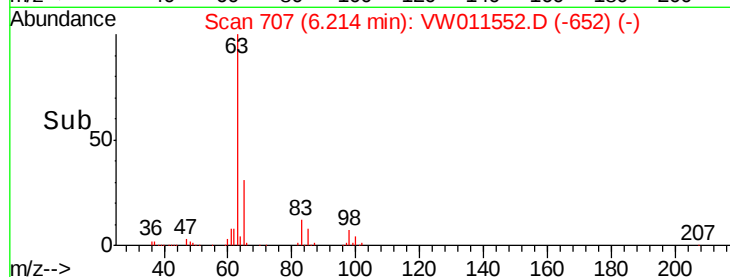
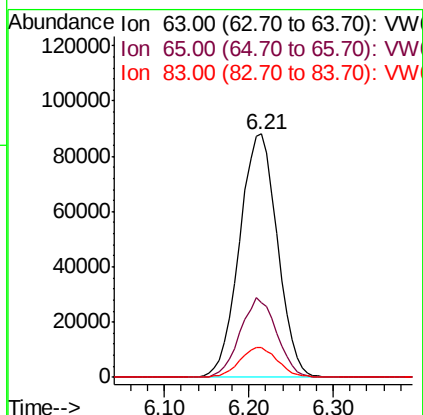
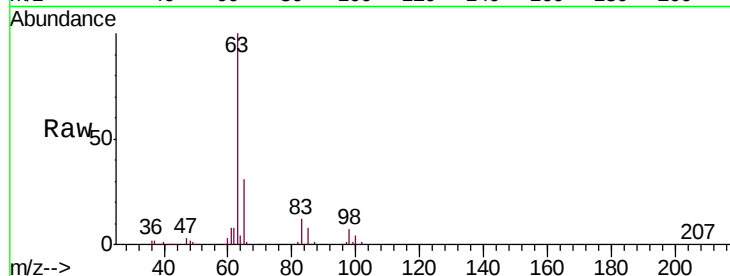




#19
 1,1-Dichloroethane
 Concen: 26.066 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

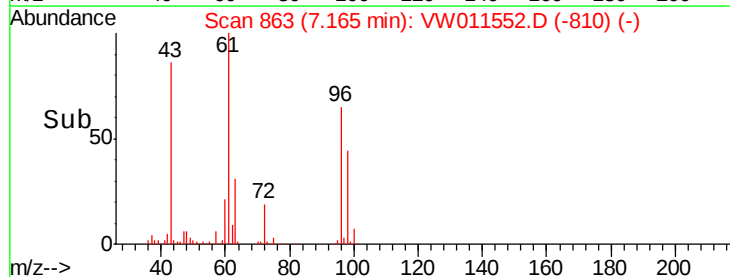
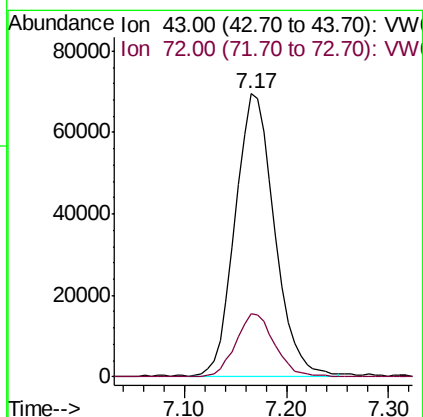
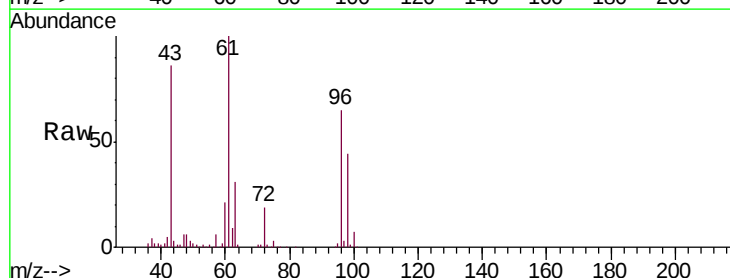
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

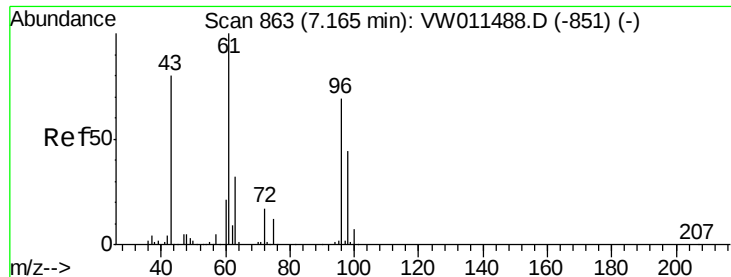
Tgt Ion: 63 Resp: 269354
 Ion Ratio Lower Upper
 63 100
 65 30.8 22.8 42.4
 83 12.5 8.6 16.0



#21
 2-Butanone
 Concen: 63.656 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Tgt Ion: 43 Resp: 186873
 Ion Ratio Lower Upper
 43 100
 72 22.2 10.5 31.6



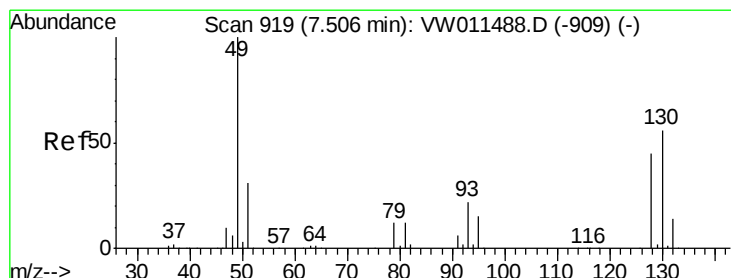
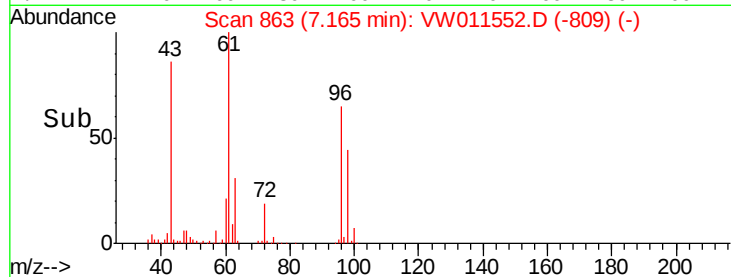
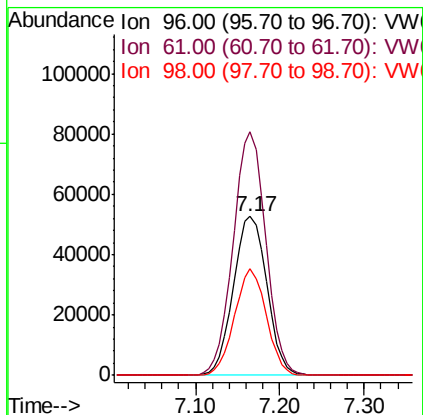
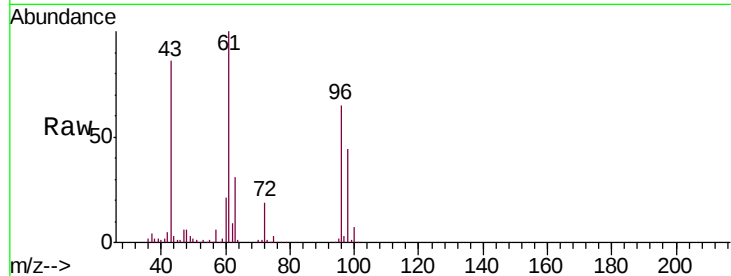


#22

cis-1,2-Dichloroethene
Concen: 25.658 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Instrument :
MSVOA_W
ClientSampled :
VSTD02521

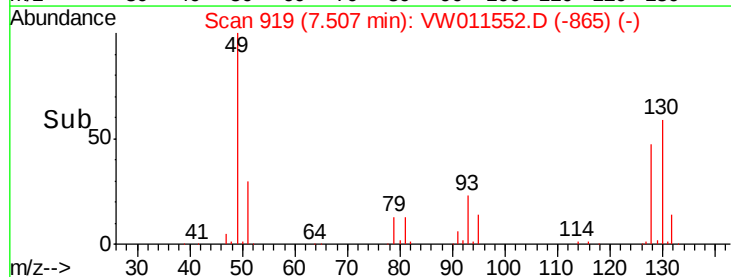
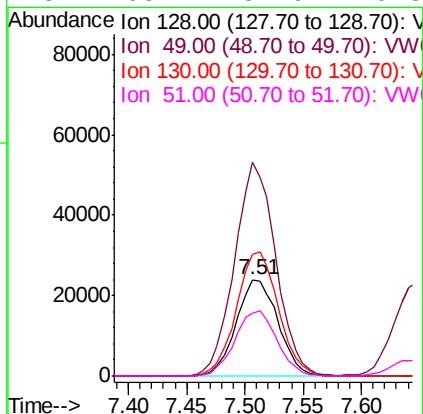
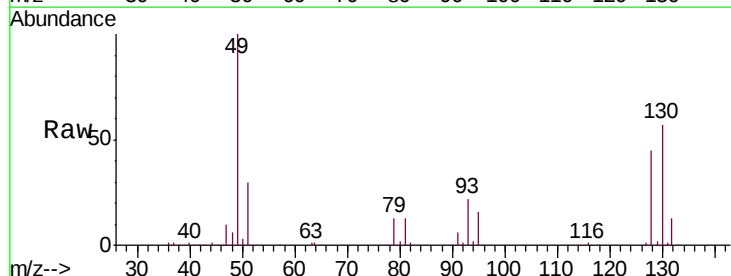
Tgt Ion: 96 Resp: 141404
Ion Ratio Lower Upper
96 100
61 153.2 101.8 189.0
98 66.9 45.4 84.2

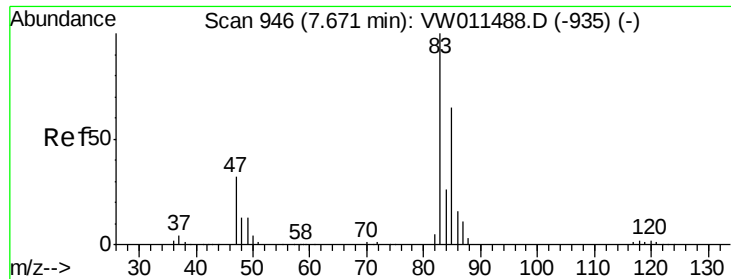


#23

Bromochloromethane
Concen: 26.071 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Tgt Ion: 128 Resp: 60051
Ion Ratio Lower Upper
128 100
49 221.6 152.0 282.2
130 125.7 89.8 166.8
51 65.7 52.9 79.3

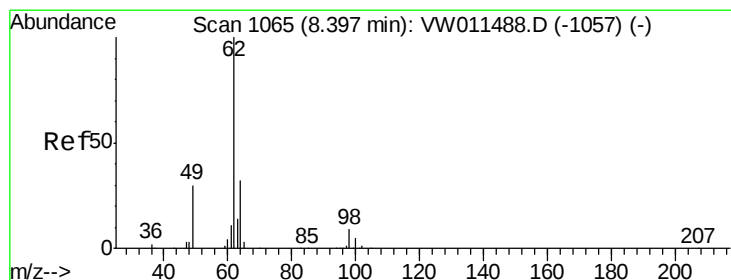
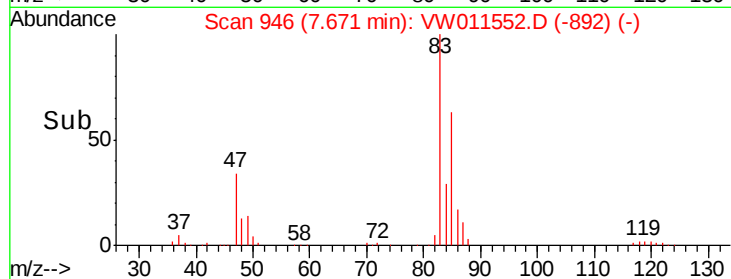
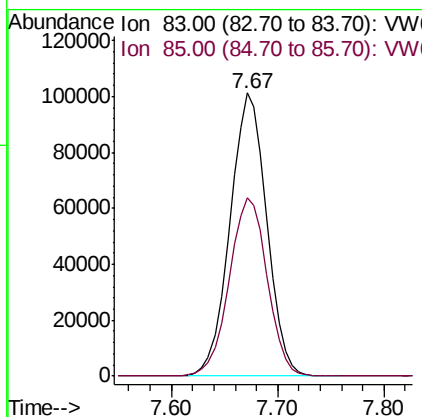
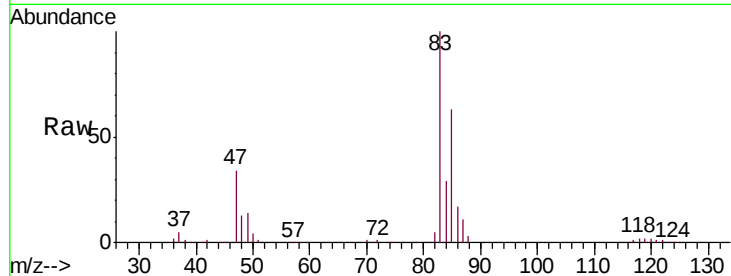




#25
Chloroform
Concen: 25.657 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

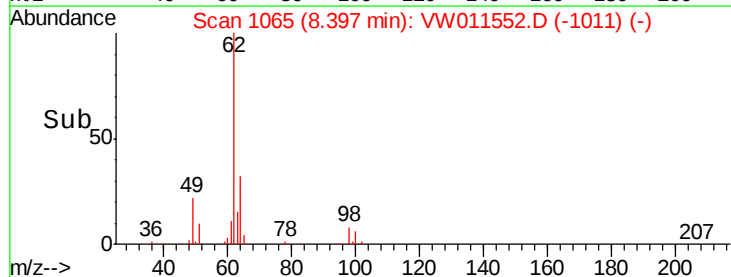
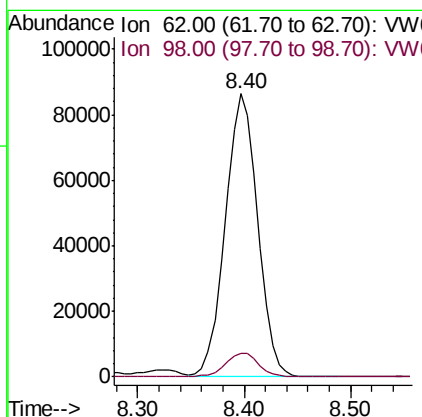
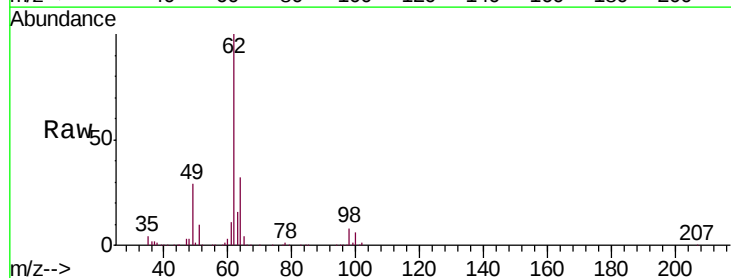
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

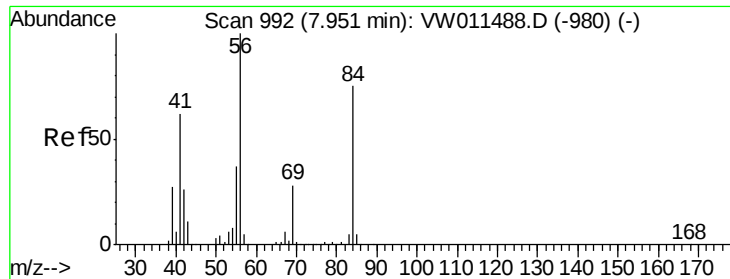
Tgt Ion: 83 Resp: 244228
Ion Ratio Lower Upper
83 100
85 65.2 45.1 83.9



#27
1,2-Dichloroethane
Concen: 26.546 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Tgt Ion: 62 Resp: 184179
Ion Ratio Lower Upper
62 100
98 8.4 7.1 10.7

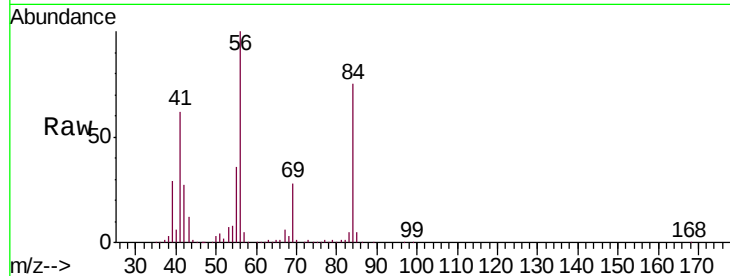




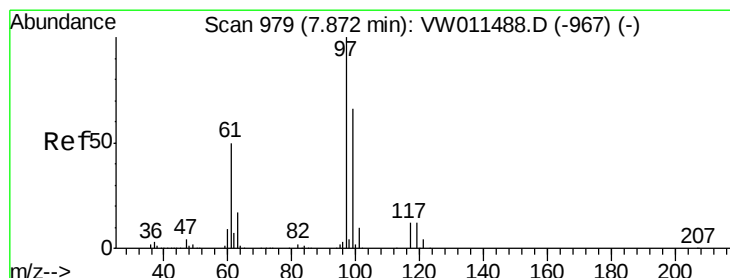
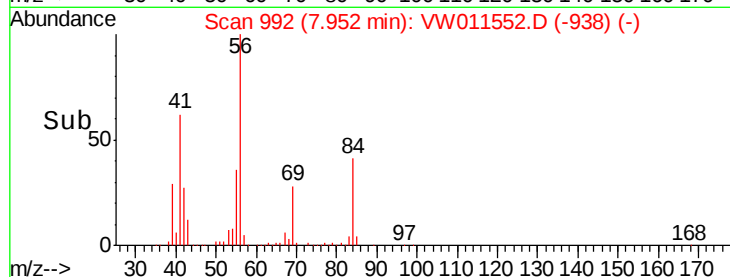
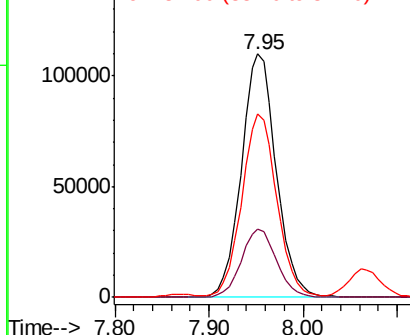
#30
Cyclohexane
Concen: 26.449 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Instrument :
MSVOA_W
ClientSampled :
VSTD02521

Tgt Ion: 56 Resp: 284083
Ion Ratio Lower Upper
56 100
69 28.2 22.6 34.0
84 76.1 60.4 90.6

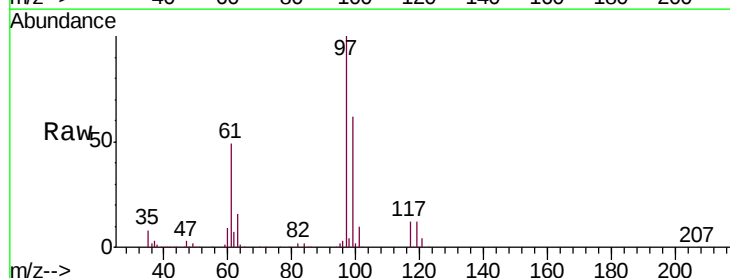


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

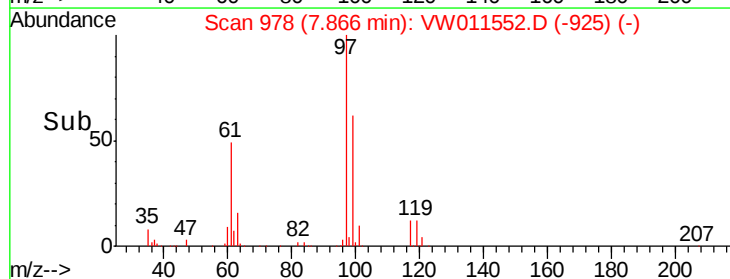
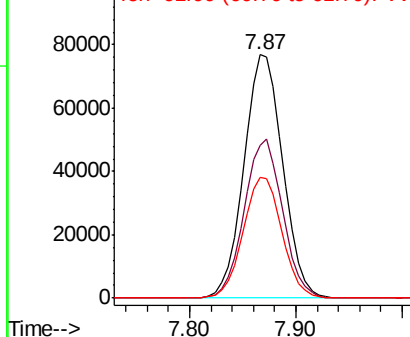


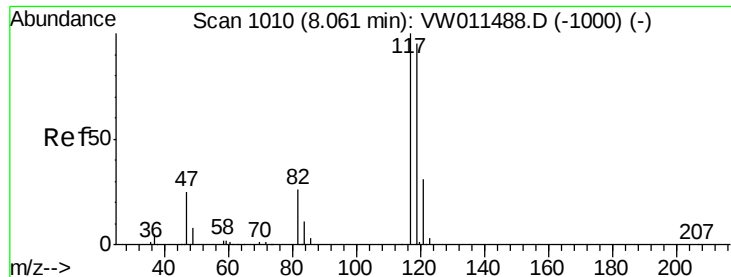
#31
1,1,1-Trichloroethane
Concen: 26.849 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Tgt Ion: 97 Resp: 197076
Ion Ratio Lower Upper
97 100
99 64.4 51.0 76.6
61 49.6 39.4 59.2



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: 27.313 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

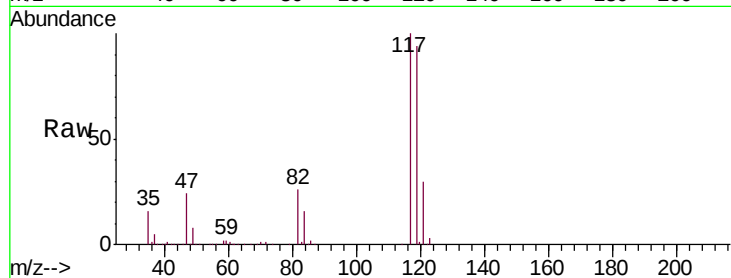
VSTD02521

Tgt Ion:117 Resp: 186308

Ion Ratio Lower Upper

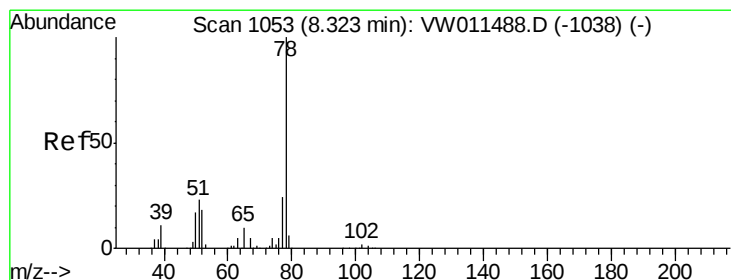
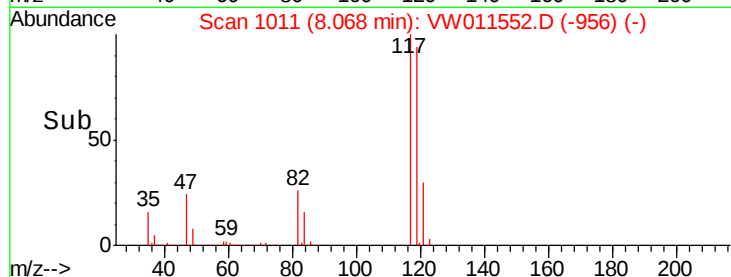
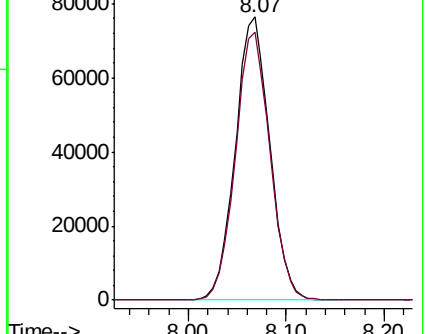
117 100

119 95.1 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.471 ug/L

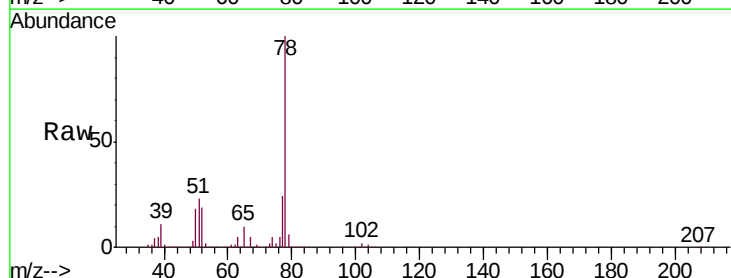
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

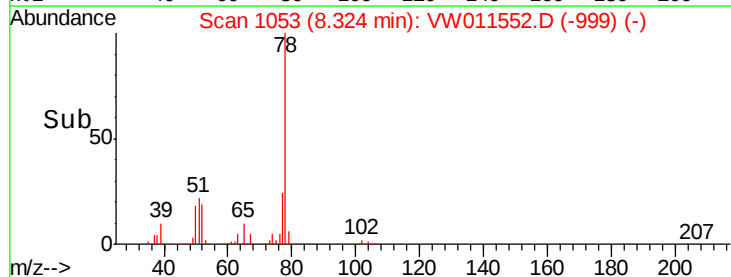
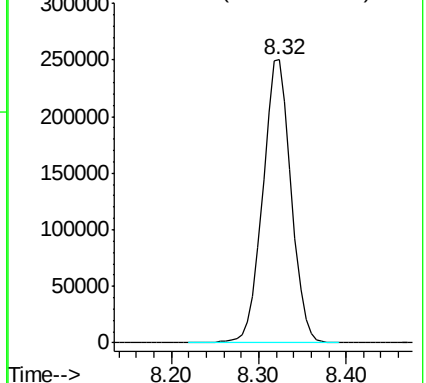
Lab File: VW011552.D

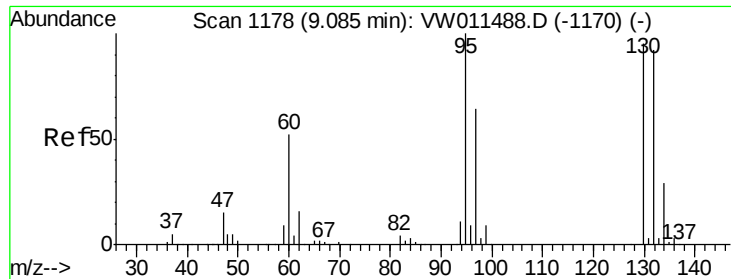
Acq: 29 Jul 2019 10:38

Tgt Ion: 78 Resp: 566599



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 26.298 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampled :

VSTD02521

Tgt Ion: 95 Resp: 143068

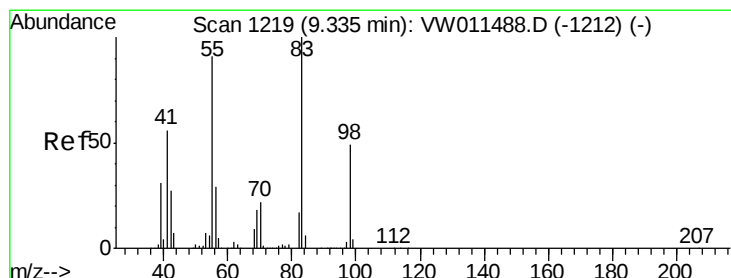
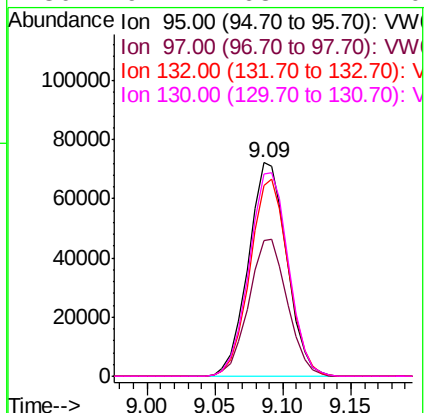
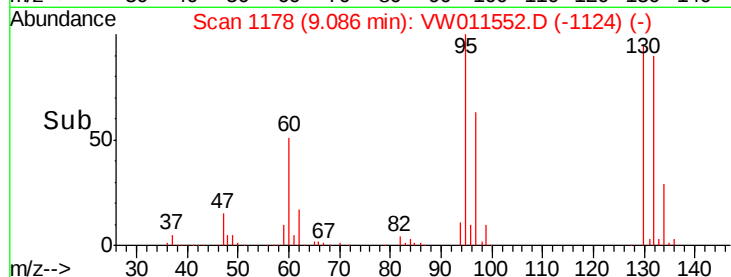
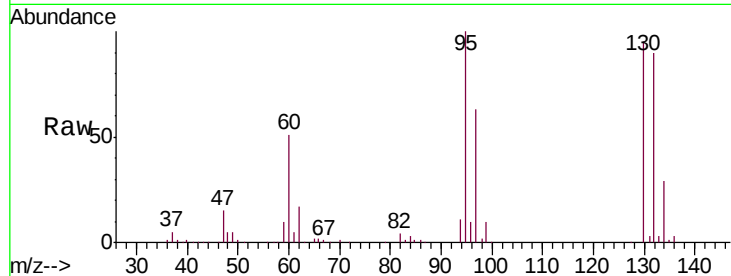
Ion Ratio Lower Upper

95 100

97 64.5 44.6 82.8

132 92.1 66.0 122.6

130 97.4 68.4 127.0



#36

Methylcyclohexane

Concen: 27.040 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

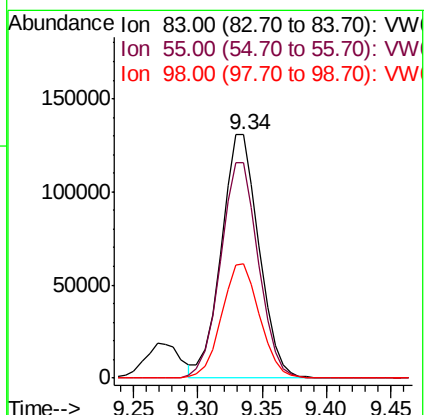
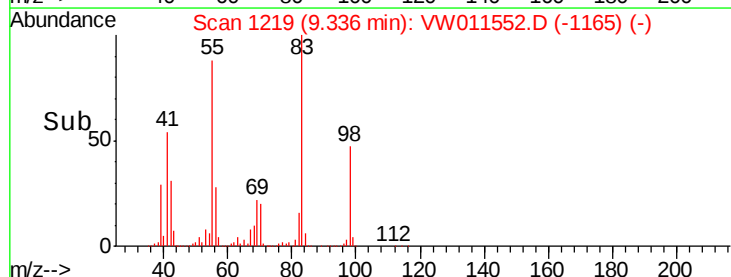
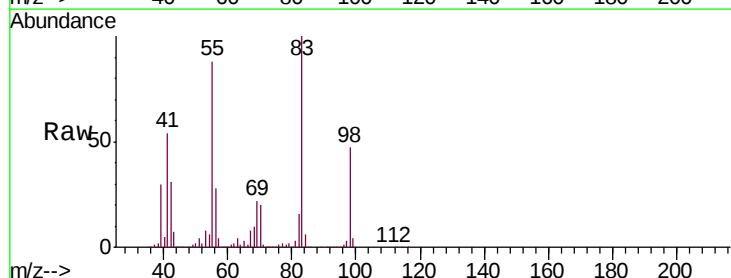
Tgt Ion: 83 Resp: 267491

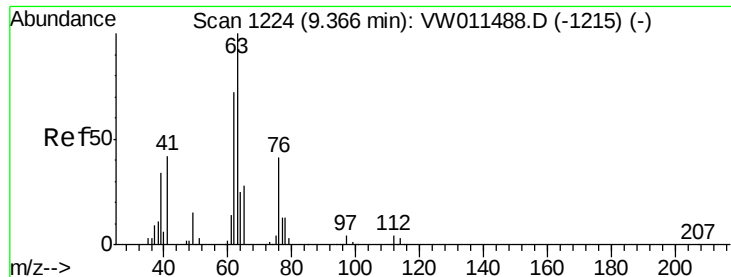
Ion Ratio Lower Upper

83 100

55 88.9 71.5 107.3

98 47.5 37.4 56.2

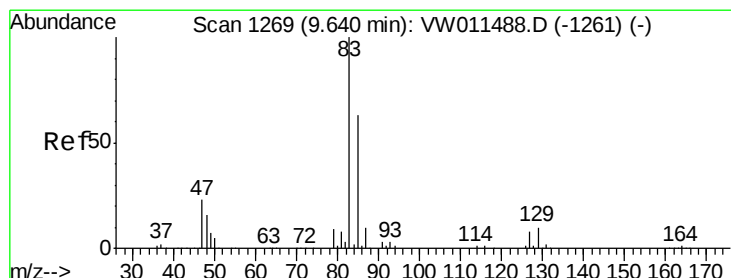
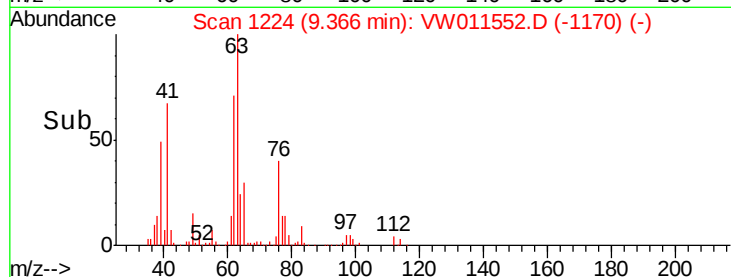
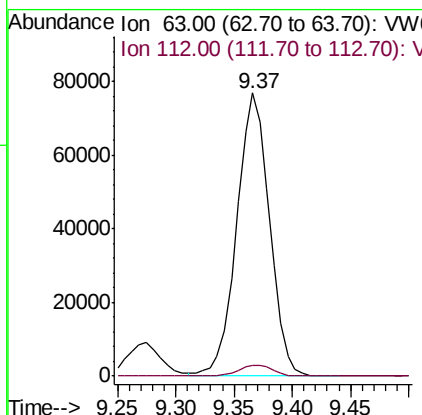
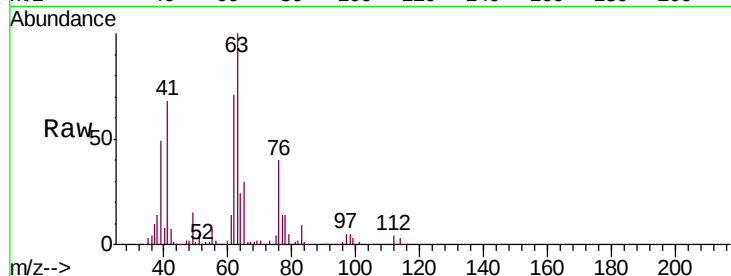




#40
 1,2-Dichloropropane
 Concen: 26.207 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

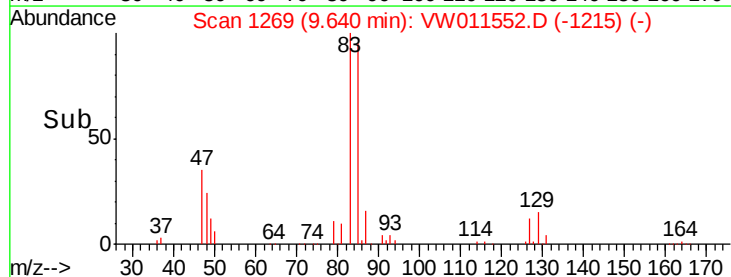
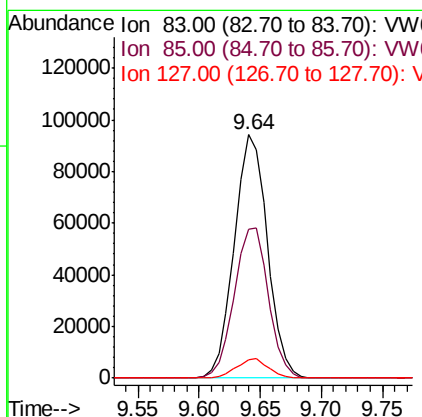
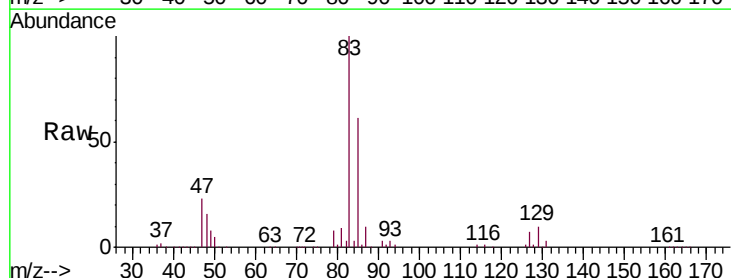
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

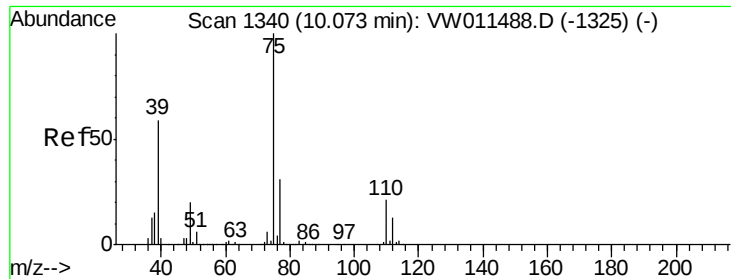
Tgt Ion: 63 Resp: 150709
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.2 4.8



#41
 Bromodichloromethane
 Concen: 26.365 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Tgt Ion: 83 Resp: 177272
 Ion Ratio Lower Upper
 83 100
 85 61.2 44.3 82.3
 127 7.4 6.6 9.8

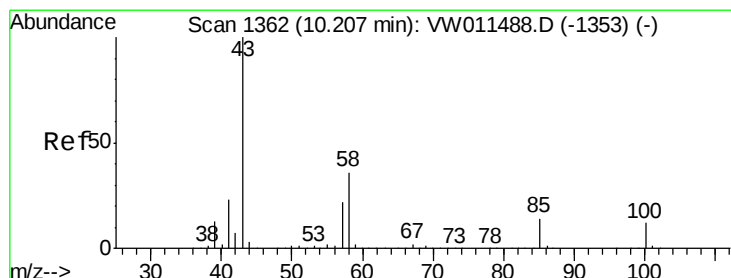
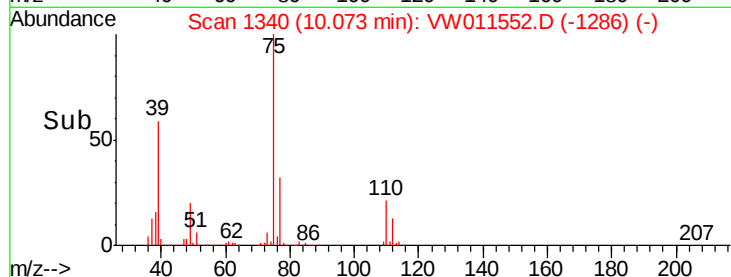
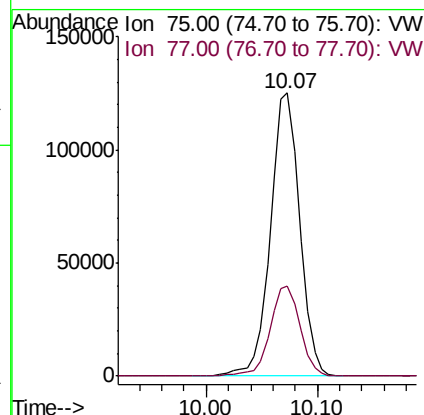
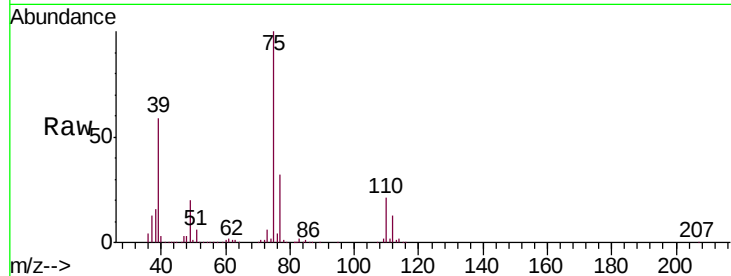




#42
 cis-1,3-Dichloropropene
 Concen: 26.626 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

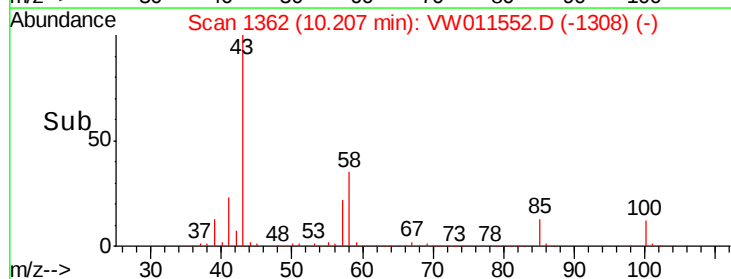
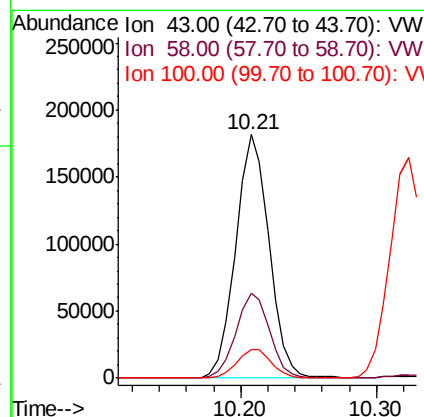
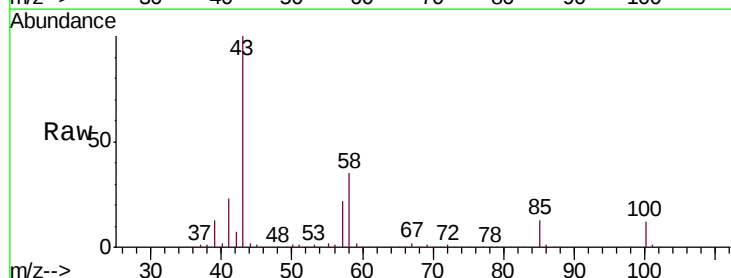
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

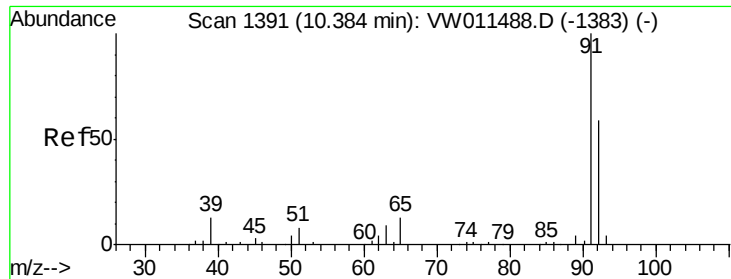
Tgt Ion: 75 Resp: 230038
 Ion Ratio Lower Upper
 75 100
 77 31.9 21.6 40.2



#43
 4-Methyl-2-pentanone
 Concen: 62.969 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Tgt Ion: 43 Resp: 310004
 Ion Ratio Lower Upper
 43 100
 58 35.2 28.0 42.0
 100 12.3 9.8 14.8





#44

Toluene

Concen: 26.528 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

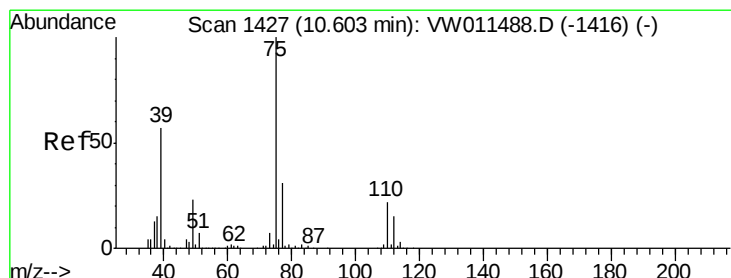
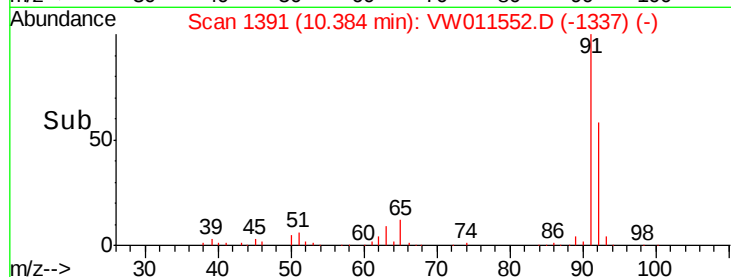
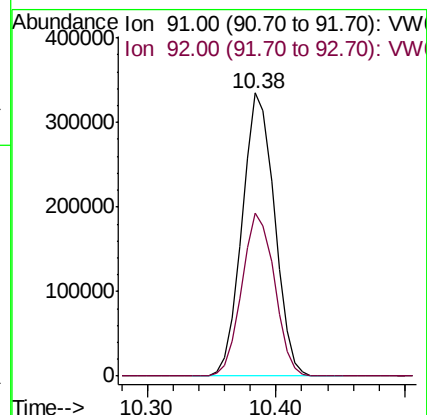
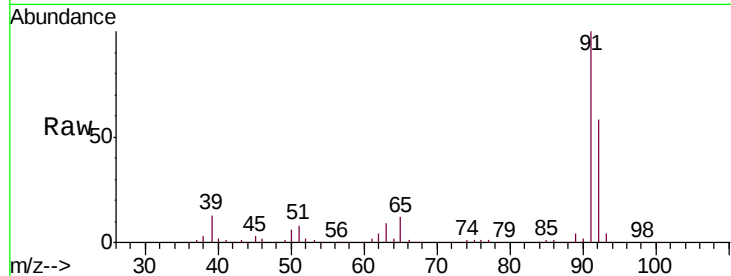
VSTD02521

Tgt Ion: 91 Resp: 582429

Ion Ratio Lower Upper

91 100

92 57.6 41.2 76.4



#45

trans-1,3-Dichloropropene

Concen: 27.171 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011552.D

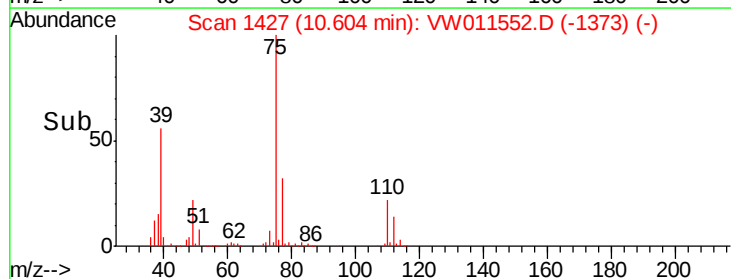
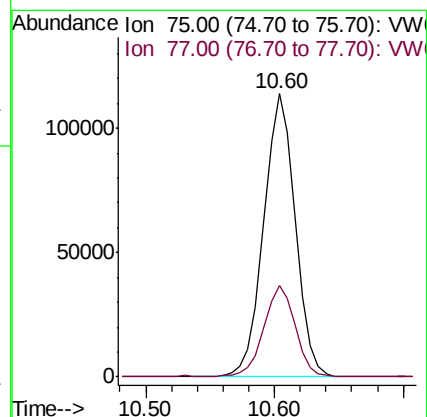
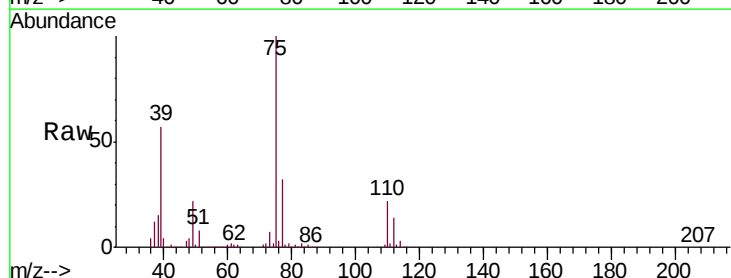
Acq: 29 Jul 2019 10:38

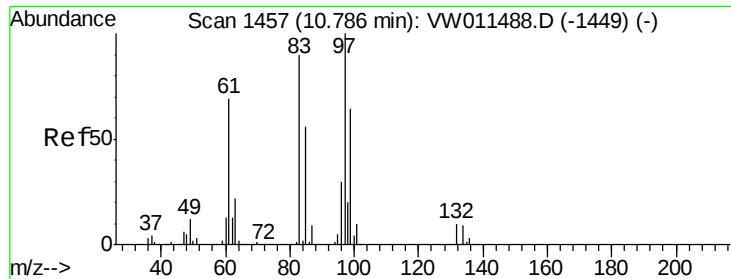
Tgt Ion: 75 Resp: 192924

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 27.084 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

Tgt Ion: 97 Resp: 104256

Ion	Ratio	Lower	Upper
97	100		
83	87.7	63.8	118.6
85	56.8	40.0	74.4
99	61.6	43.1	80.1

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

Time-->

10.79

80000

60000

40000

20000

0

10.70 10.75 10.80 10.85

Time-->

10.79

80000

60000

40000

20000

0

10.70 10.75 10.80 10.85

Time-->

10.79

80000

60000

40000

20000

0

10.70 10.75 10.80 10.85

Time-->

10.79

80000

60000

40000

20000

0

10.70 10.75 10.80 10.85

Time-->

10.79

80000

60000

40000

20000

0

10.70 10.75 10.80 10.85

Time-->

10.79

80000

60000

40000

20000

0

10.70 10.75 10.80 10.85

Time-->

10.79

80000

60000

40000

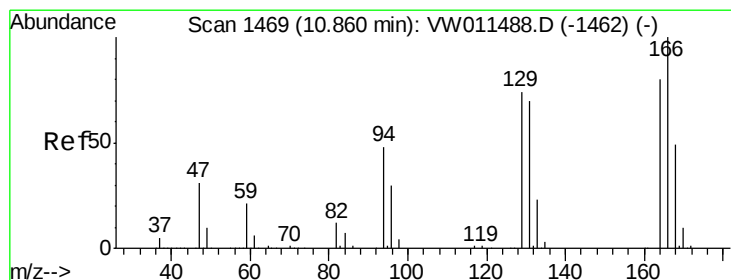
20000

0

10.70 10.75 10.80 10.85

Time-->

10.79



#47

Tetrachloroethene

Concen: 26.074 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Tgt Ion: 164 Resp: 108827

Ion	Ratio	Lower	Upper
164	100		
129	91.4	69.0	128.1
131	89.6	64.5	119.7
166	125.8	89.2	165.6

Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->

10.86

120000

100000

80000

60000

40000

20000

0

10.80 10.85 10.90

Time-->

10.86

120000

100000

80000

60000

40000

20000

0

10.80 10.85 10.90

Time-->

10.86

120000

100000

80000

60000

40000

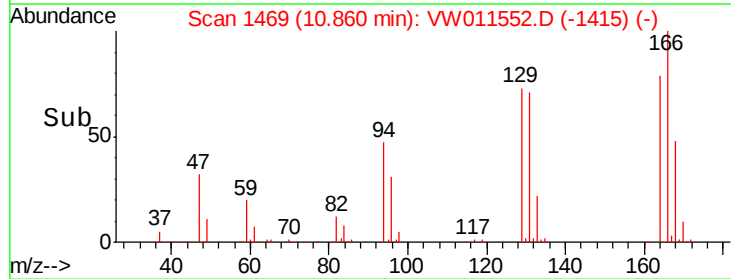
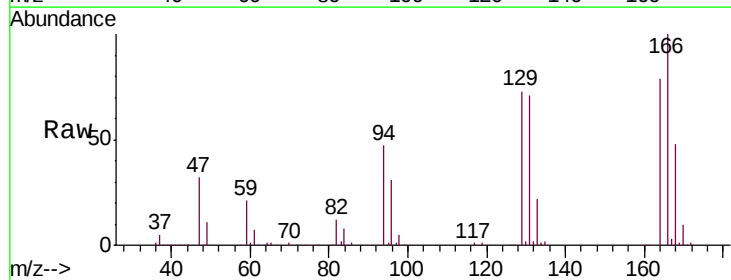
20000

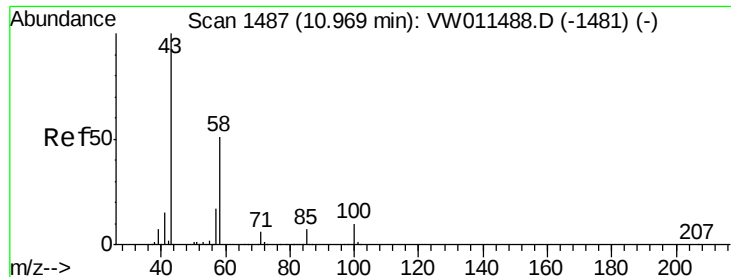
0

10.80 10.85 10.90

Time-->

10.86

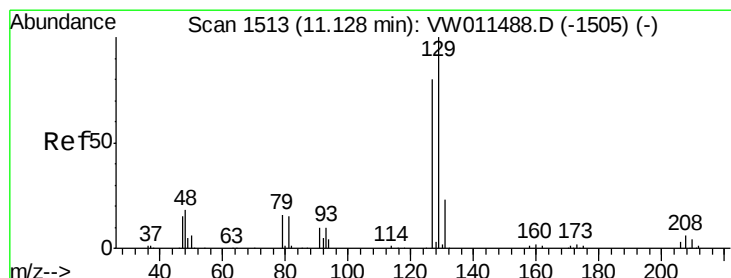
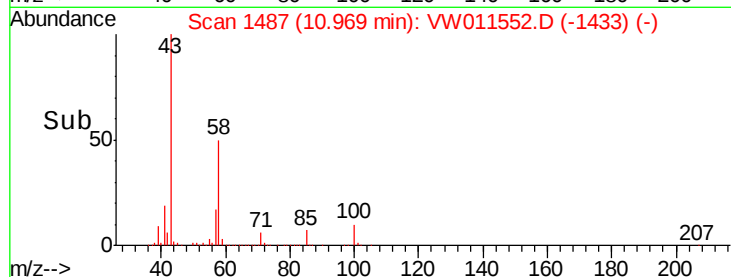
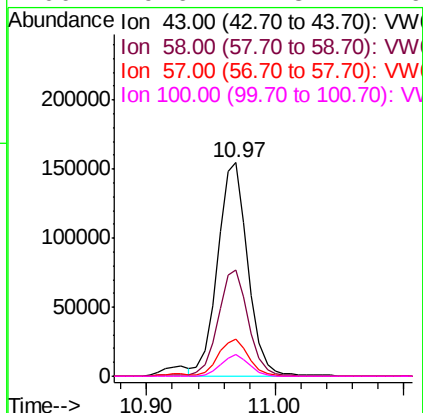
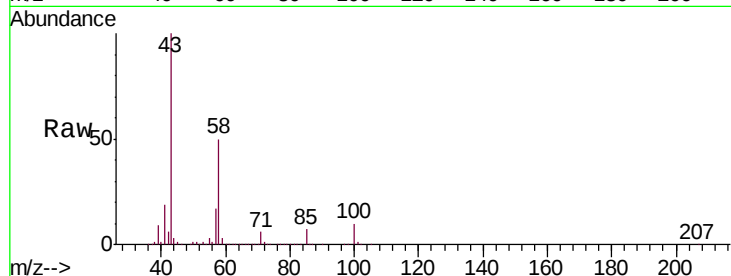




#49
2-Hexanone
Concen: 68.388 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

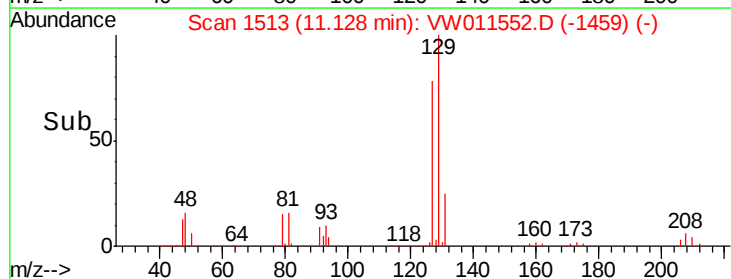
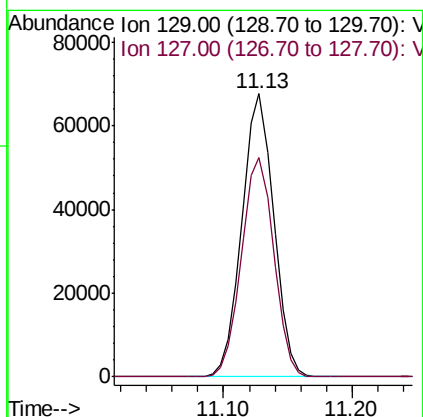
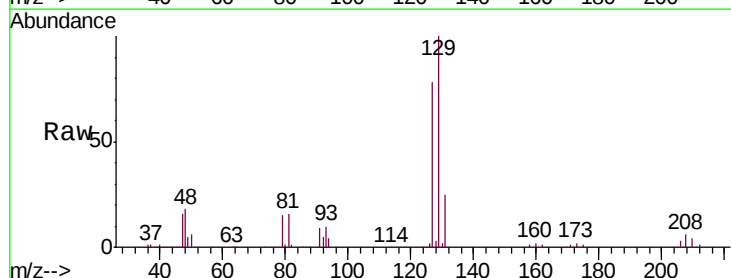
Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

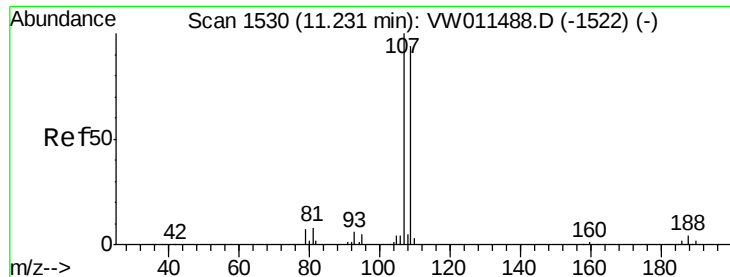
Tgt Ion:	43	Resp:	254140
Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.1	60.1
57	17.2	13.8	20.6
100	9.6	7.8	11.6



#50
Dibromochloromethane
Concen: 27.167 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Tgt Ion:	129	Resp:	115760
Ion	Ratio	Lower	Upper
129	100		
127	77.7	53.9	100.1

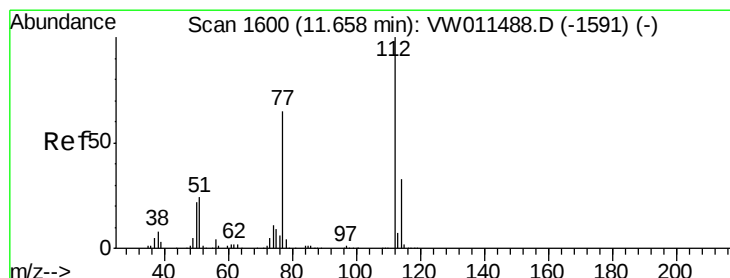
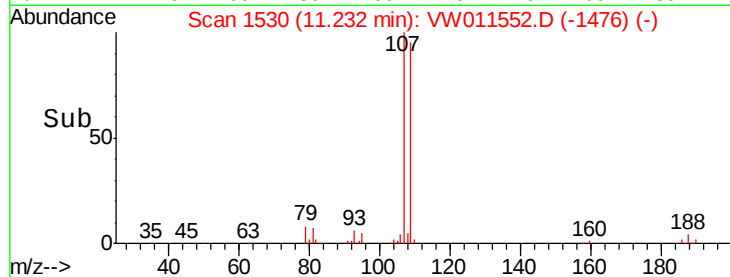
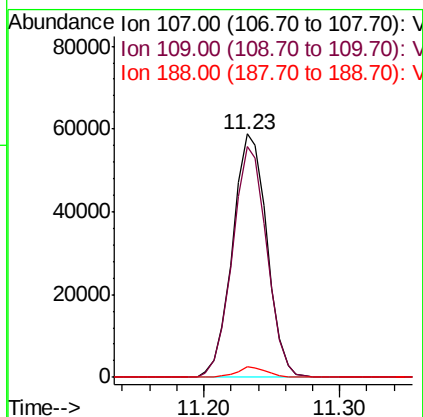
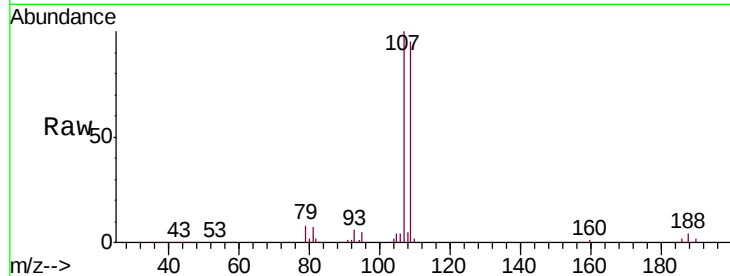




#51
 1,2-Dibromoethane
 Concen: 27.861 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

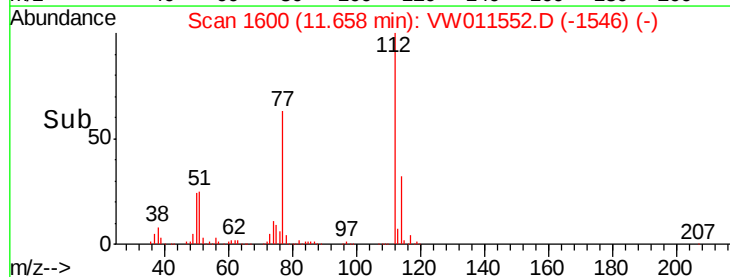
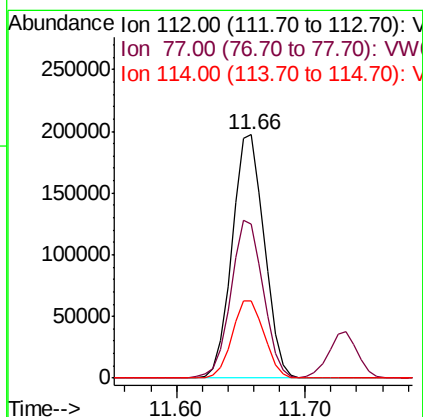
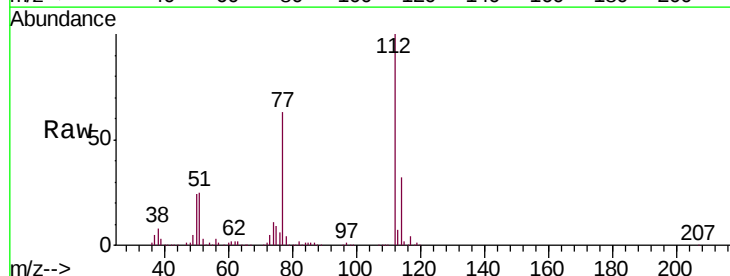
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

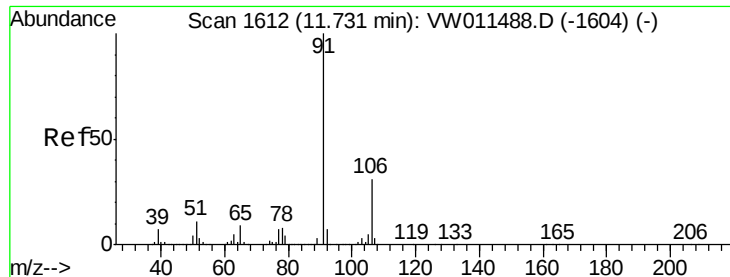
Tgt Ion:107 Resp: 103718
 Ion Ratio Lower Upper
 107 100
 109 95.0 66.8 124.2
 188 4.1 3.0 4.6



#52
 Chlorobenzene
 Concen: 25.846 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Tgt Ion:112 Resp: 342200
 Ion Ratio Lower Upper
 112 100
 77 63.5 52.2 78.2
 114 31.7 22.0 41.0





#53

Ethylbenzene

Concen: 26.290 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

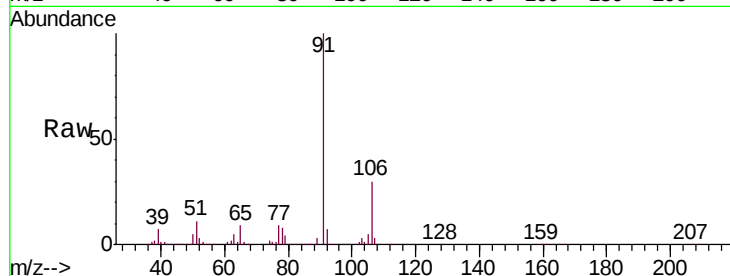
VSTD02521

Tgt Ion: 91 Resp: 649618

Ion Ratio Lower Upper

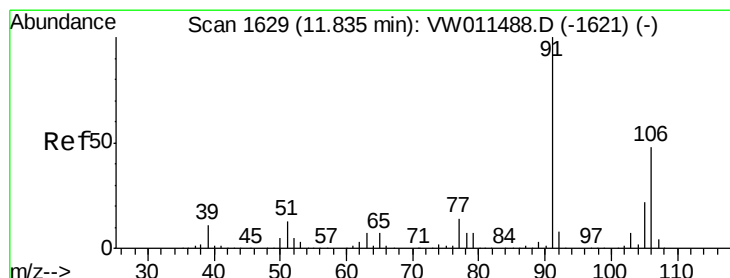
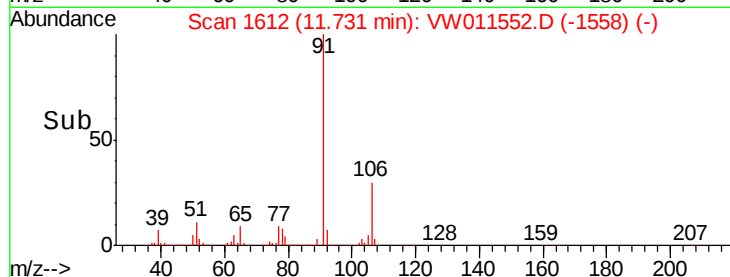
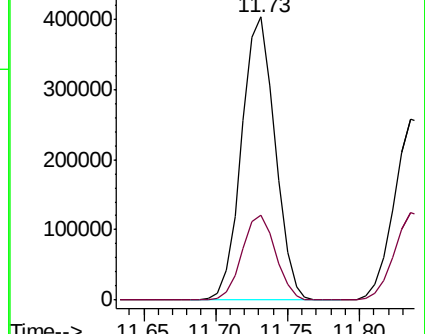
91 100

106 29.9 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 26.135 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW011552.D

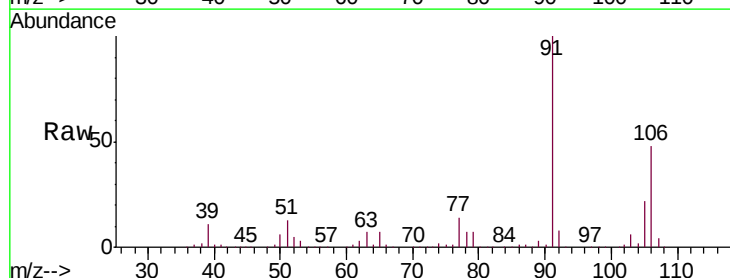
Acq: 29 Jul 2019 10:38

Tgt Ion: 106 Resp: 236508

Ion Ratio Lower Upper

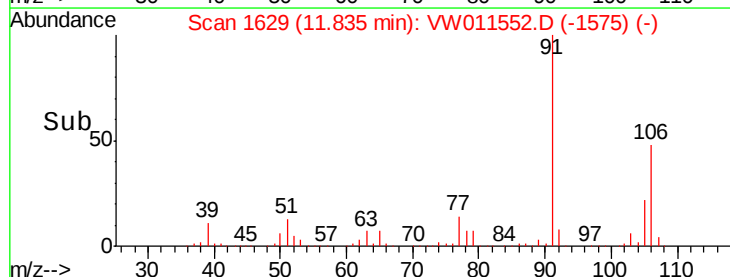
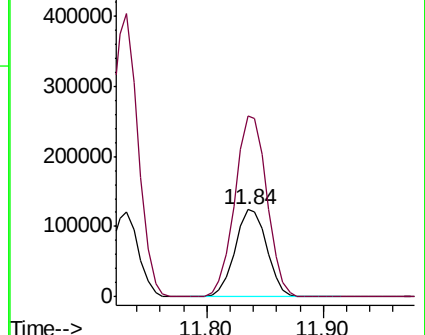
106 100

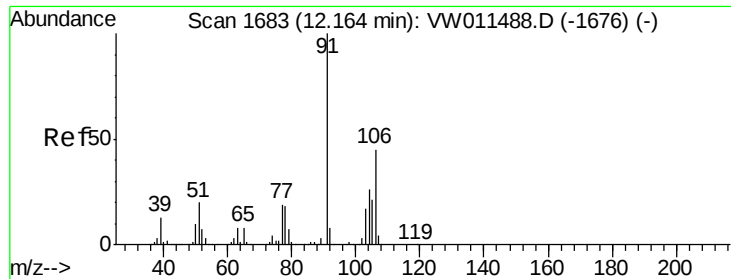
91 207.8 143.7 266.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 26.347 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampled :

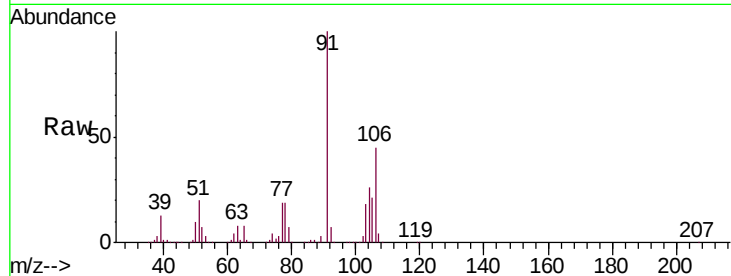
VSTD02521

Tgt Ion:106 Resp: 224718

Ion Ratio Lower Upper

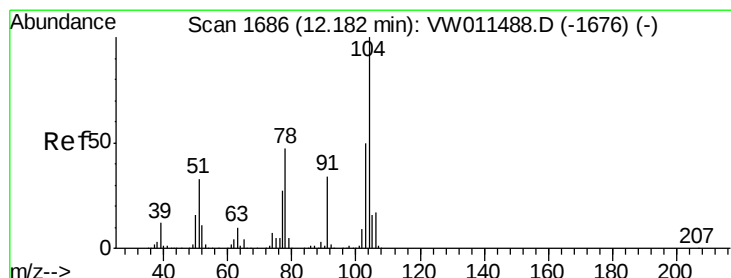
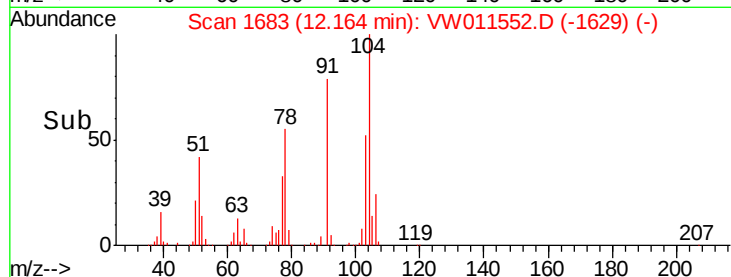
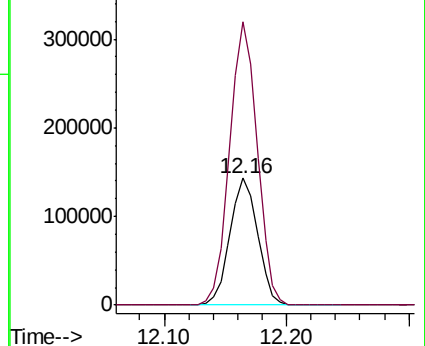
106 100

91 223.6 155.5 288.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.843 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW011552.D

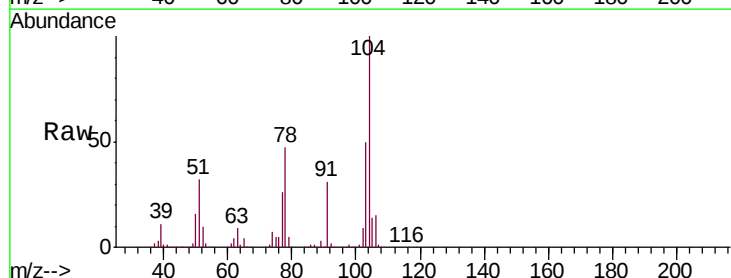
Acq: 29 Jul 2019 10:38

Tgt Ion:104 Resp: 385140

Ion Ratio Lower Upper

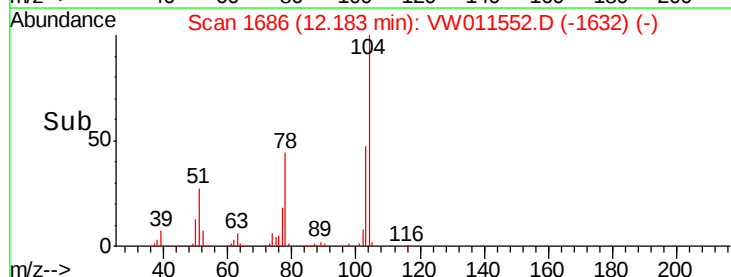
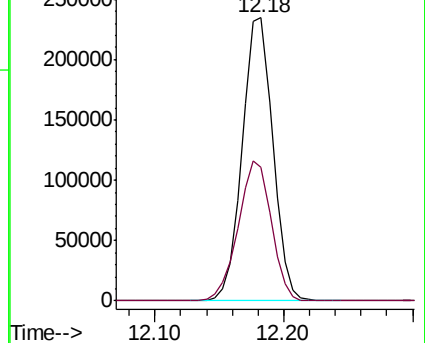
104 100

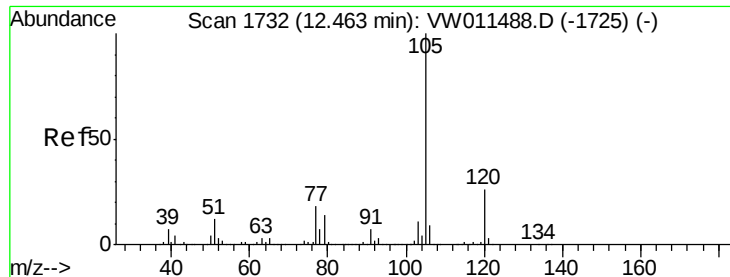
78 47.3 33.5 62.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.508 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02521

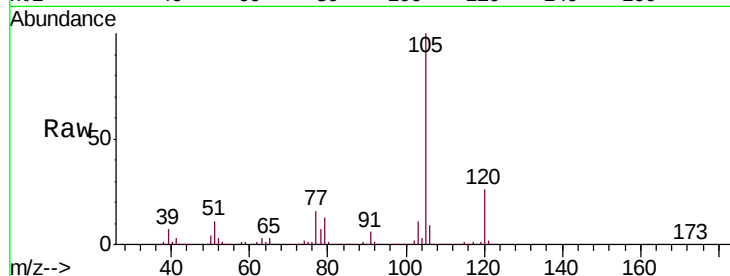
Tgt Ion: 105 Resp: 615843

Ion Ratio Lower Upper

105 100

120 25.9 20.5 30.7

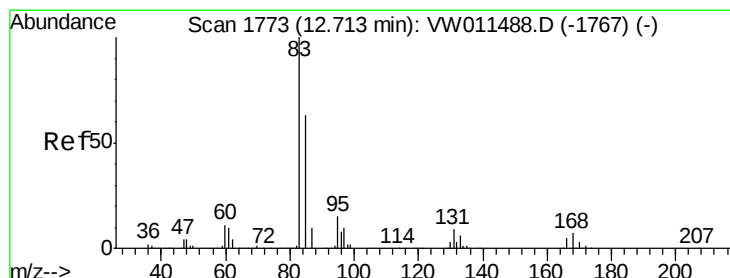
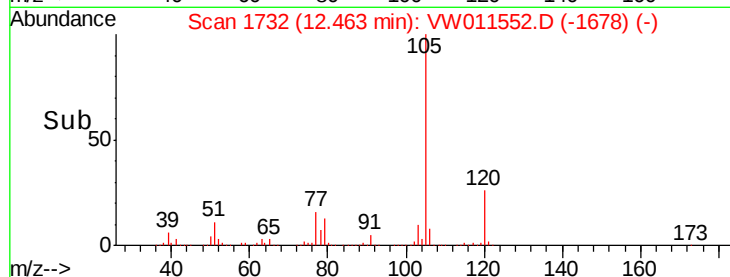
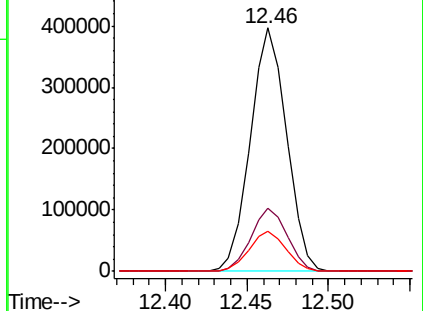
77 16.6 13.3 19.9



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: 29.182 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

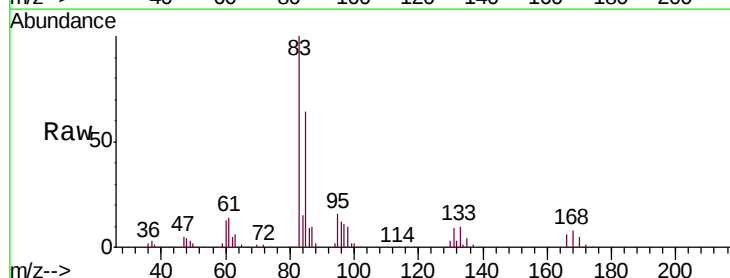
Tgt Ion: 83 Resp: 145922

Ion Ratio Lower Upper

83 100

85 64.0 45.1 83.9

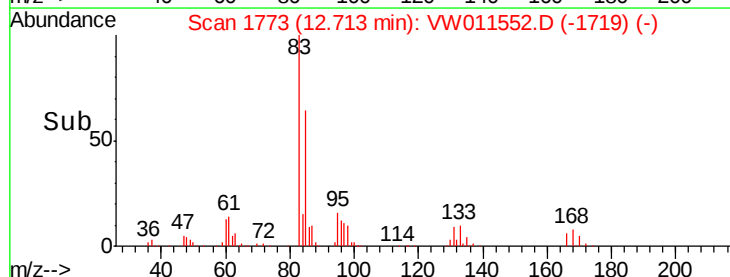
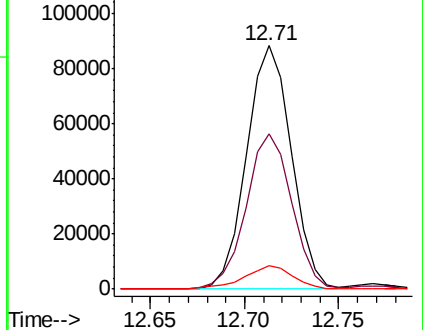
131 9.4 7.0 10.6

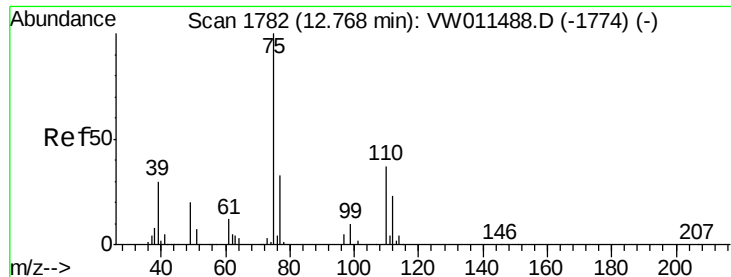


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 29.929 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

Instrument :

MSVOA_W

ClientSampleId :

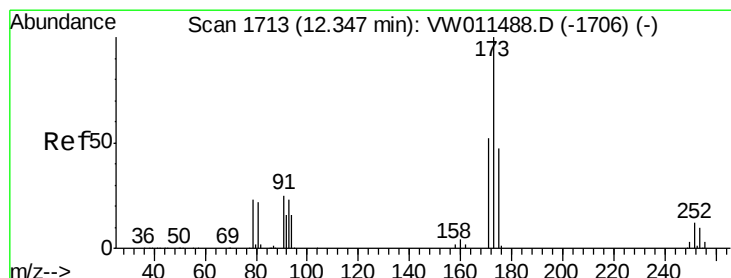
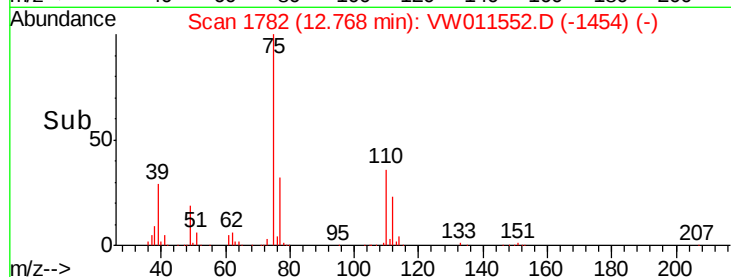
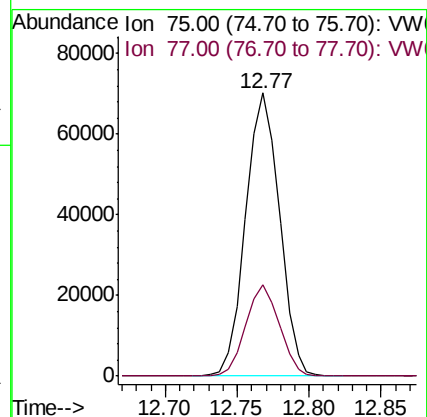
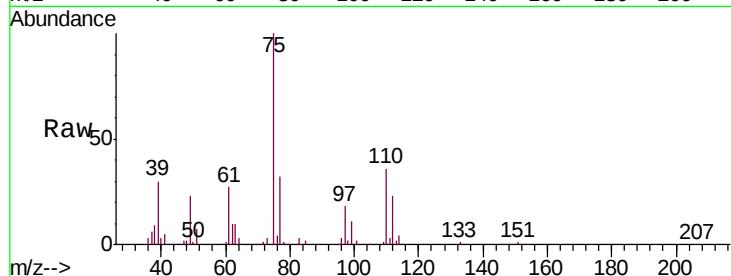
VSTD02521

Tgt Ion: 75 Resp: 114341

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.8



#62

Bromoform

Concen: 27.892 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011552.D

Acq: 29 Jul 2019 10:38

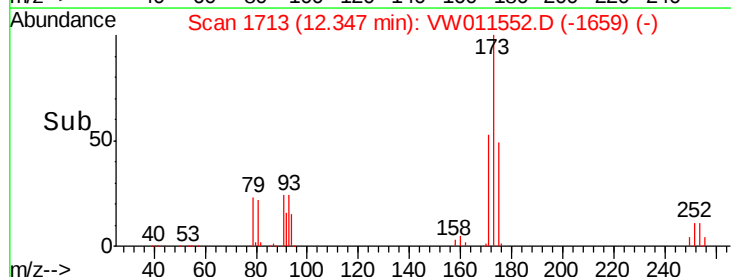
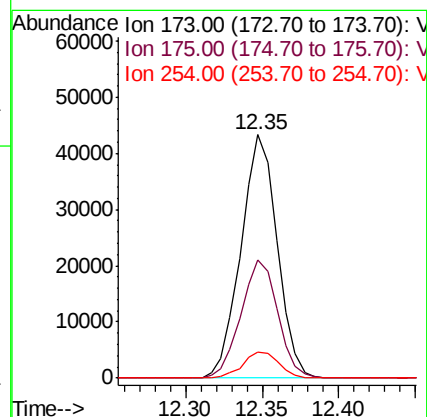
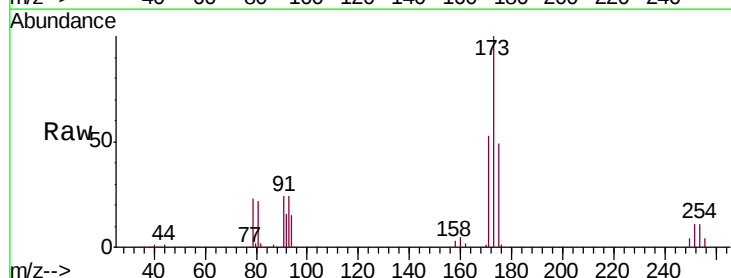
Tgt Ion: 173 Resp: 71422

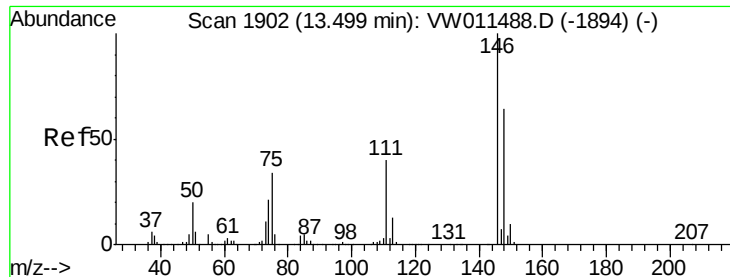
Ion Ratio Lower Upper

173 100

175 49.2 39.0 58.4

254 10.7 8.5 12.7

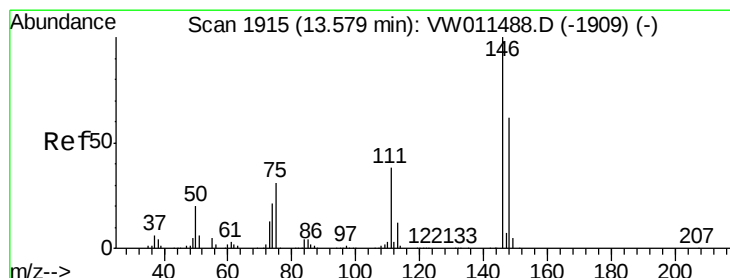
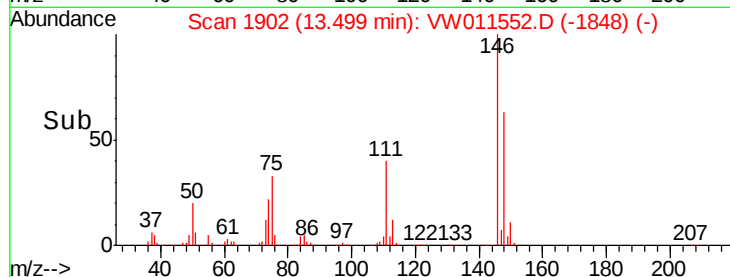
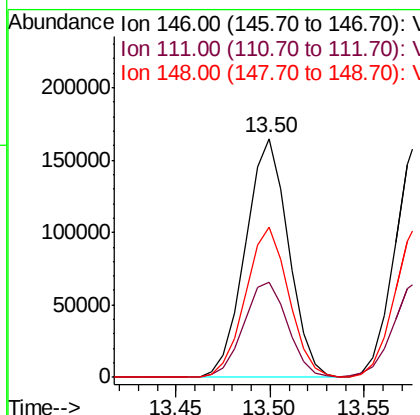
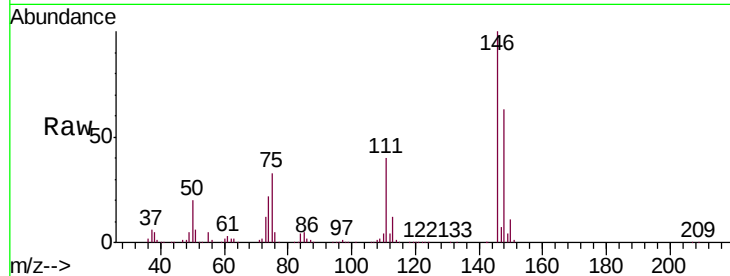




#63
 1,3-Dichlorobenzene
 Concen: 25.457 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

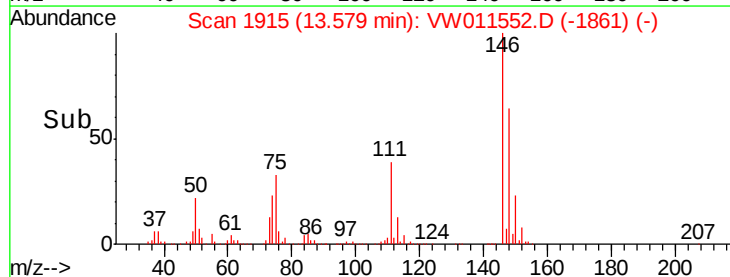
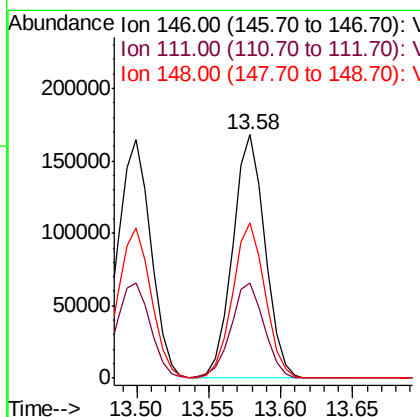
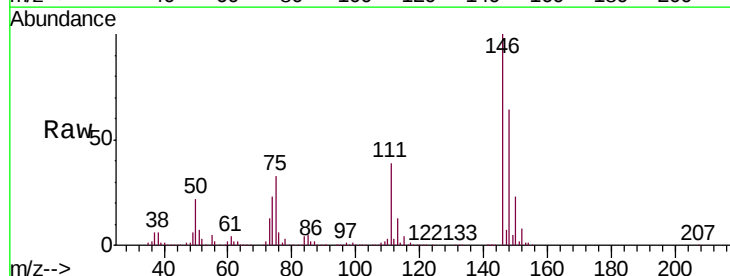
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

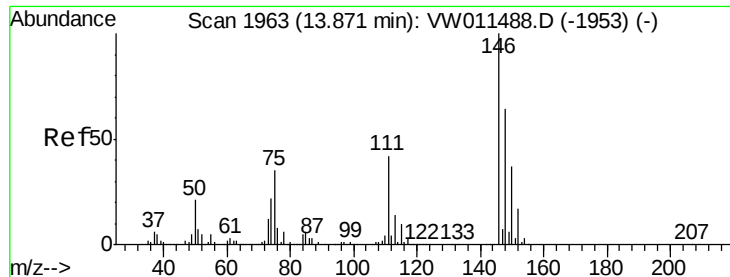
Tgt Ion:146 Resp: 260801
 Ion Ratio Lower Upper
 146 100
 111 39.9 29.0 53.8
 148 63.0 44.3 82.3



#64
 1,4-Dichlorobenzene
 Concen: 25.299 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Tgt Ion:146 Resp: 263253
 Ion Ratio Lower Upper
 146 100
 111 39.3 27.8 51.6
 148 63.7 44.9 83.5

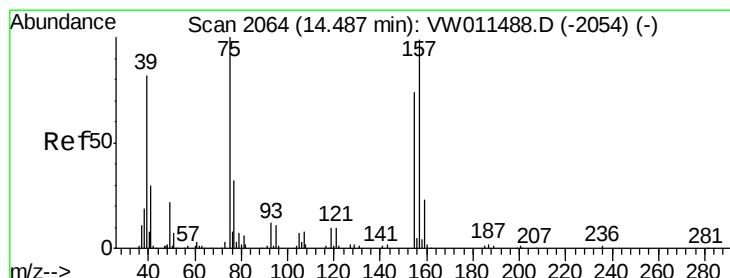
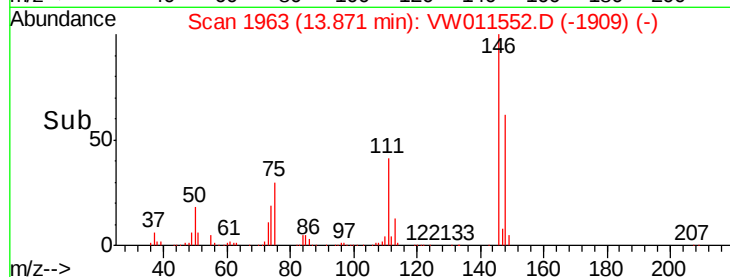
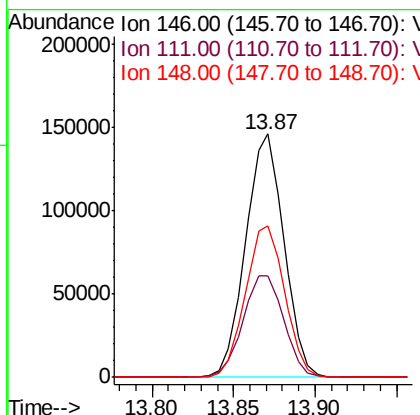
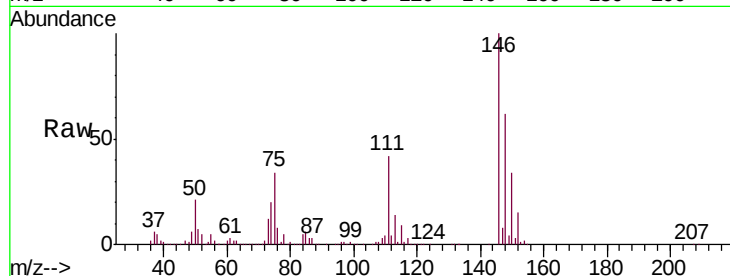




#65
 1,2-Dichlorobenzene
 Concen: 25.395 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

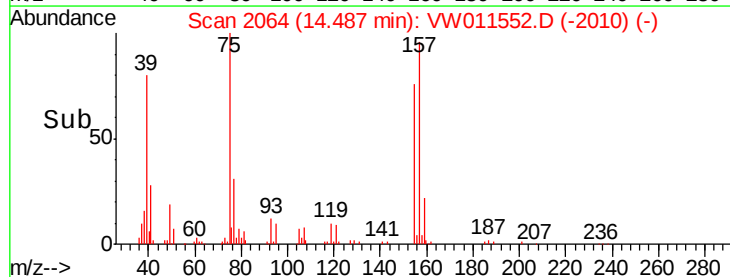
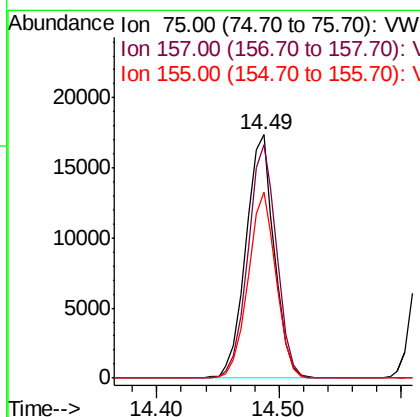
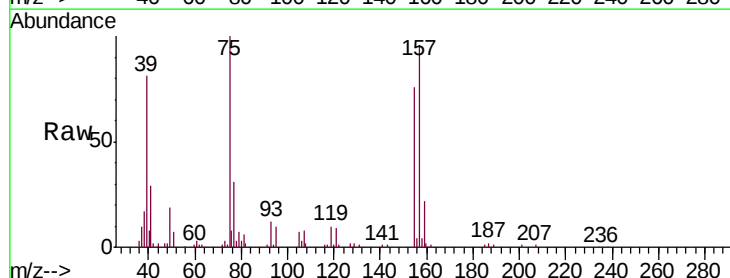
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

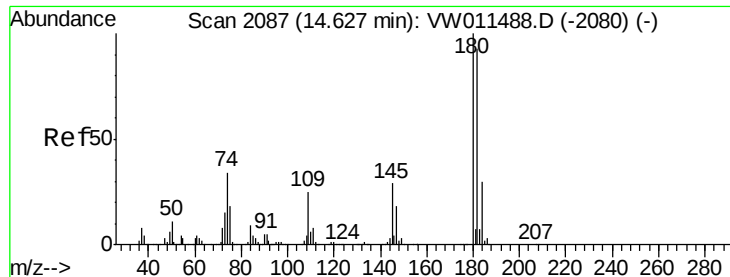
Tgt Ion: 146 Resp: 239384
 Ion Ratio Lower Upper
 146 100
 111 41.9 33.8 50.8
 148 62.2 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 31.131 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Tgt Ion: 75 Resp: 27971
 Ion Ratio Lower Upper
 75 100
 157 95.8 73.7 110.5
 155 76.3 61.0 91.6

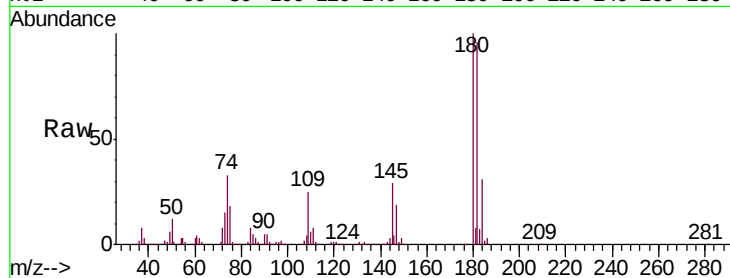




#67
 1,3,5-Trichlorobenzene
 Concen: 25.542 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02521

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	199611		
182	96.0	76.1	114.1	
184	30.4	24.7	37.1	
145	29.6	23.8	35.6	



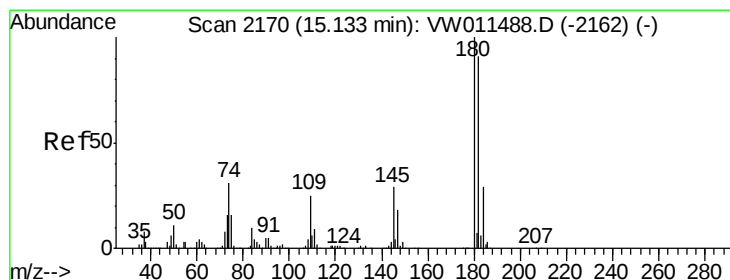
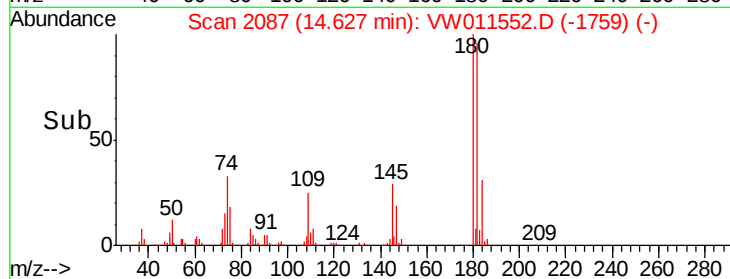
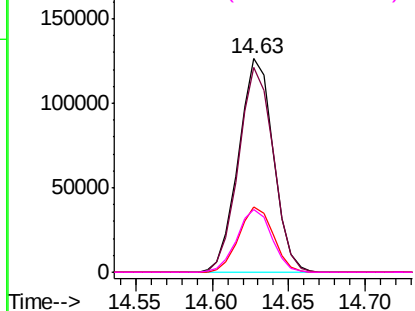
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

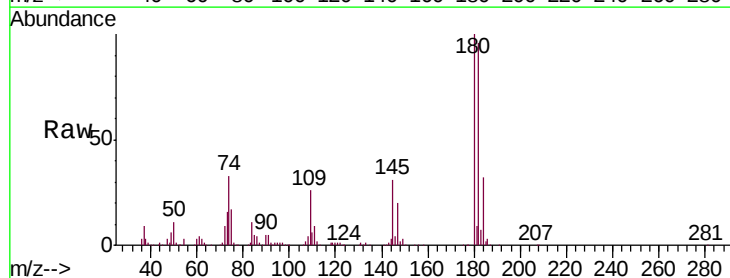
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.571 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW011552.D
 Acq: 29 Jul 2019 10:38

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	165618		
182	94.3	76.4	114.6	
145	30.4	24.2	36.2	

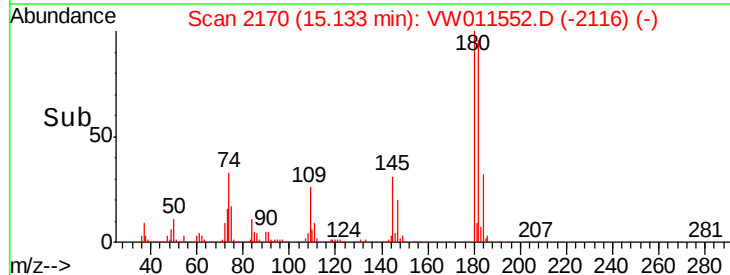
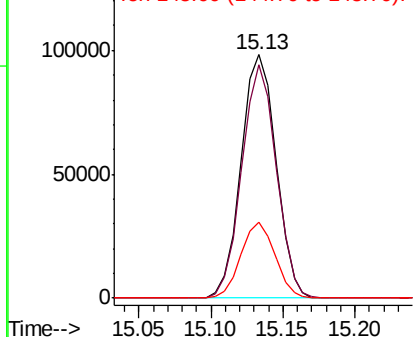


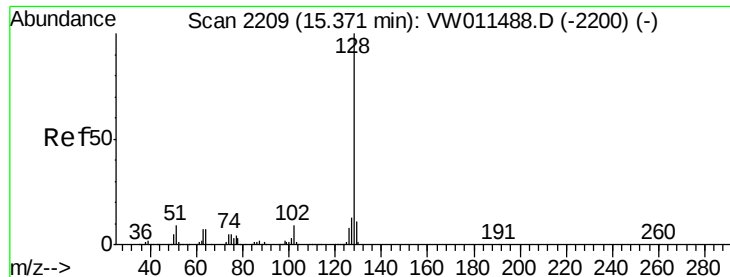
Abundance

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

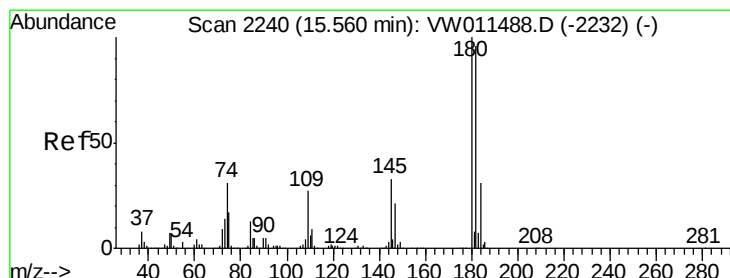
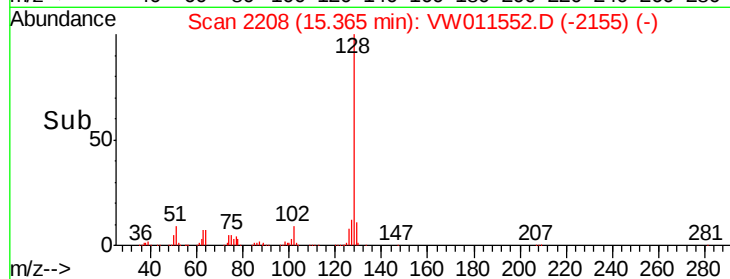
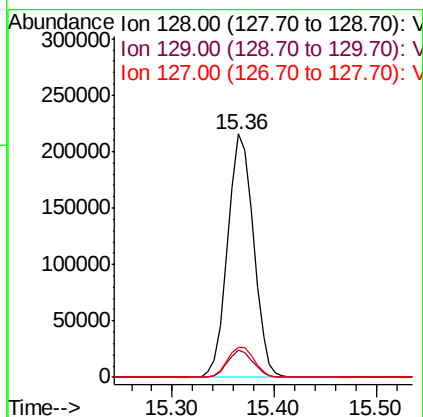
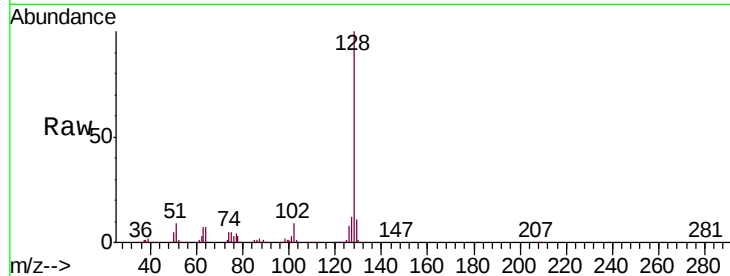




#69
Naphthalene
Concen: 28.603 ug/L
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Instrument :
MSVOA_W
ClientSampleId :
VSTD02521

Tgt Ion:128 Resp: 377119
Ion Ratio Lower Upper
128 100
129 11.0 8.5 12.7
127 13.0 10.5 15.7



#70
1,2,3-Trichlorobenzene
Concen: 25.948 ug/L
RT: 15.55 min Scan# 2239
Delta R.T. -0.01 min
Lab File: VW011552.D
Acq: 29 Jul 2019 10:38

Tgt Ion:180 Resp: 152255
Ion Ratio Lower Upper
180 100
182 94.2 75.8 113.8
145 31.9 25.3 37.9

