

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080520\
 Data File : VW016040.D
 Acq On : 05 Aug 2020 13:43
 Operator : SY/VA
 Sample : L3564-01
 Misc : 6.63G/10ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BFSM8

Quant Time: Aug 06 02:53:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 05 03:09:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.86	114	291986	25.00	ug/L	0.01
28) Chlorobenzene-d5	11.66	117	212938	25.00	ug/L	0.02
60) 1,4-Dichlorobenzene-d4	13.86	152	40314	25.00	ug/L	0.30

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	71668	17.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.56%
7) Chloroethane-d5	2.90	69	62481	18.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.68%
10) 1,1-Dichloroethene-d2	4.03	63	117571	14.11	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	56.44%
20) 2-Butanone-d5	7.09	46	36107	33.36	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	66.72%
24) Chloroform-d	7.66	84	160866	19.62	ug/L	0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	=	78.48%
26) 1,2-Dichloroethane-d4	8.32	65	84746	18.83	ug/L	0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	=	75.32%
29) Benzene-d6	8.29	84	315878	24.37	ug/L	0.01
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.48%
33) 1,2-Dichloropropane-d6	9.29	67	86808	22.34	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.36%
37) Toluene-d8	10.34	98	265132	22.58	ug/L	0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.32%
38) trans-1,3-Dichloropropene-	10.59	79	37104	22.40	ug/L	0.01
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.60%
39) 2-Hexanone-d5	10.93	63	544	0.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1.68%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	56380	18.88	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	75.52%
61) 1,2-Dichlorobenzene-d4	13.86	152	57867	36.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	147.24%#

Target Compounds

					Ovalue
12) 1,1-Dichloroethene	4.04	96	2210	0.589 ug/L #	1
13) Acetone	4.13	43	18002	19.807 ug/L	94
14) Carbon disulfide	4.39	76	4555	0.384 ug/L	96
18) trans-1,2-Dichloroethene	5.45	96	8405	2.121 ug/L	90
21) 2-Butanone	7.18	43	5090	4.529 ug/L #	1
22) cis-1,2-Dichloroethene	7.18	96	2189682	528.033 ug/L	93
35) Trichloroethene	9.10	95	15405709	4503.024 ug/L	94
36) Methylcyclohexane	9.29	83	22922	3.905 ug/L #	17
42) cis-1,3-Dichloropropene	10.04	75	2585	0.530 ug/L #	63
44) Toluene	10.41	91	46834	3.453 ug/L	98
47) Tetrachloroethene	10.88	164	9584740	3609.315 ug/L	92
49) 2-Hexanone	10.97	43	4355	3.282 ug/L #	40
50) Dibromochloromethane	11.15	129	8329	3.123 ug/L #	11
52) Chlorobenzene	11.68	112	6729	0.774 ug/L	91
53) Ethylbenzene	11.76	91	16962	1.112 ug/L	98
54) m,p-Xylene	11.85	106	22378	3.921 ug/L	93
55) o-xylene	12.18	106	7625	1.419 ug/L	94

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ALS Vial : 6 Sample Multiplier: 1

Instrument :
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BFSM8

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 05 03:09:52 2020
Response via : Initial Calibration

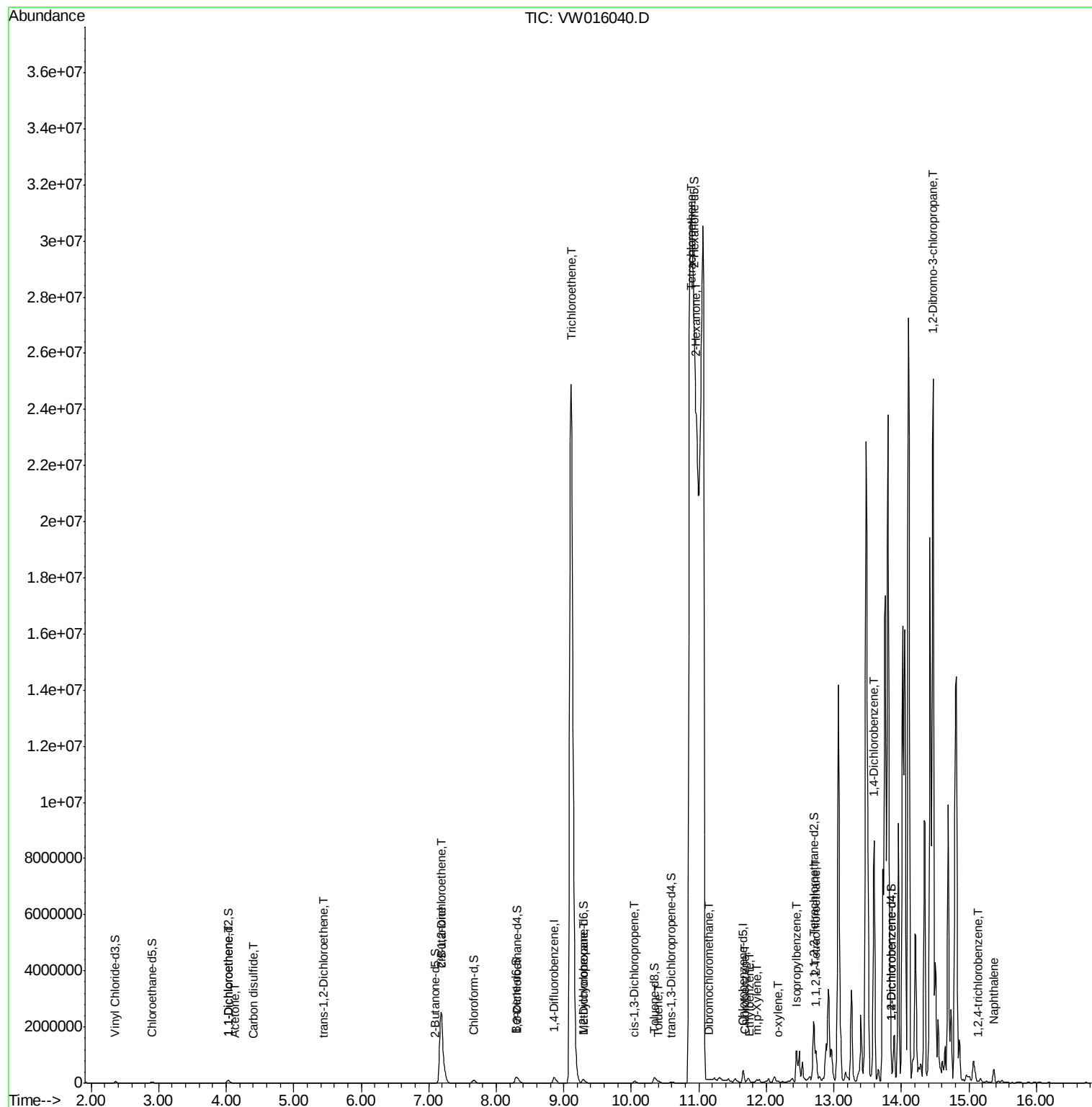
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Isopropylbenzene	12.45	105	14268	0.975	ug/L #	1
58) 1,1,2,2-Tetrachloroethane	12.73	83	15996	5.913	ug/L #	35
64) 1,4-Dichlorobenzene	13.59	146	1335	0.510	ug/L #	40
66) 1,2-Dibromo-3-chloropropan	14.47	75	106269	602.431	ug/L #	2
68) 1,2,4-trichlorobenzene	15.14	180	592	0.411	ug/L #	1
69) Naphthalene	15.37	128	423919	156.152	ug/L	99

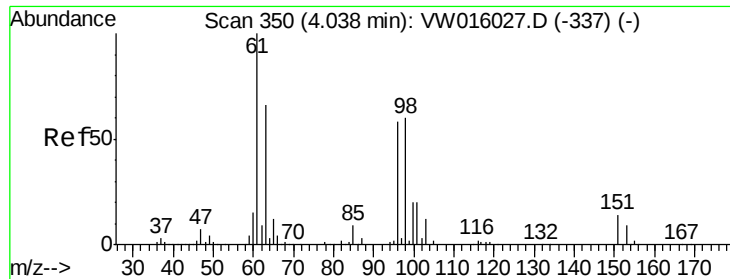
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW080520\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
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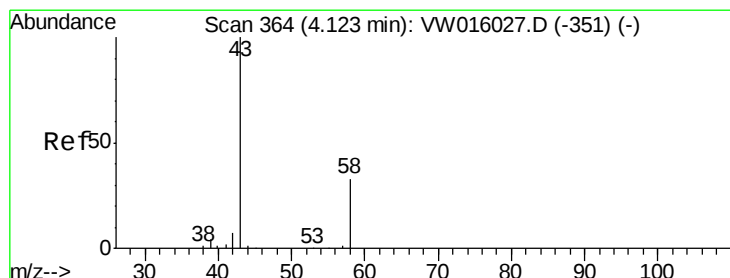
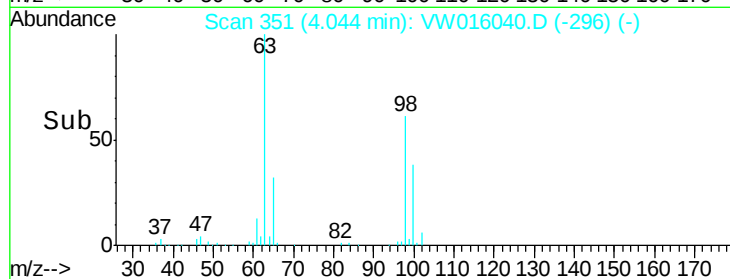
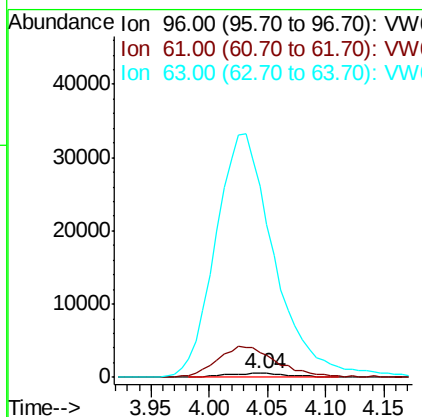
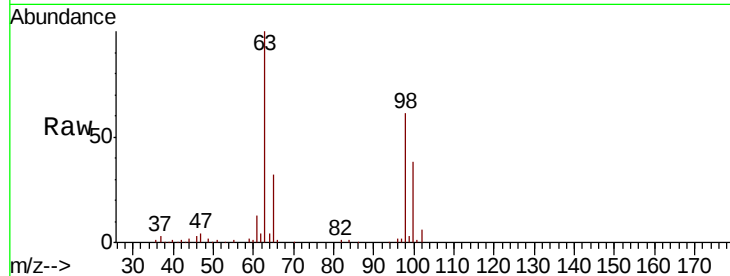




#12
 1,1-Dichloroethene
 Concen: 0.589 ug/L
 RT: 4.04 min Scan# 351
 Delta R.T. 0.01 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

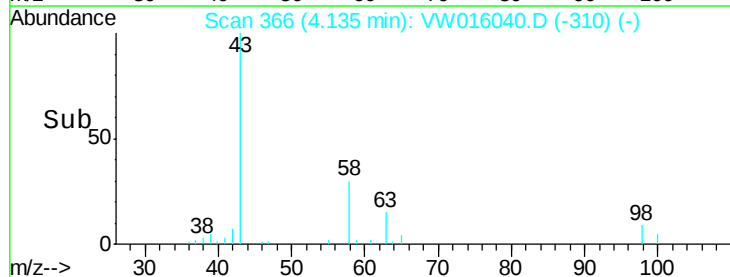
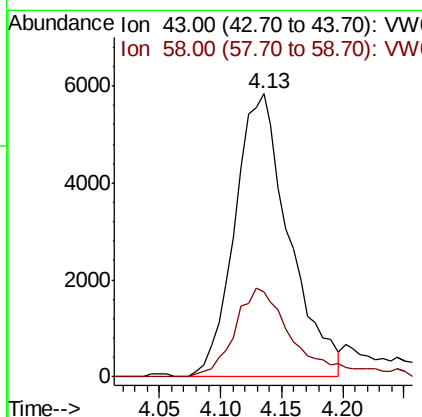
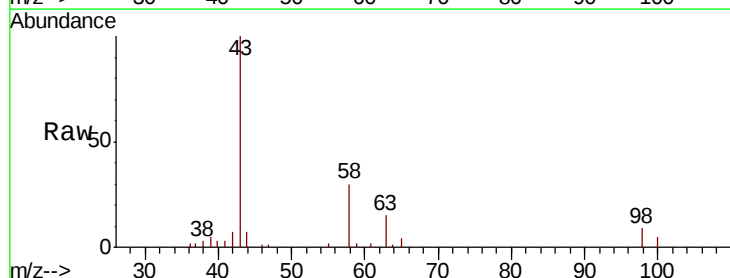
Instrument :
 MSVOA_W
 ClientSampleId :
 BFSM8

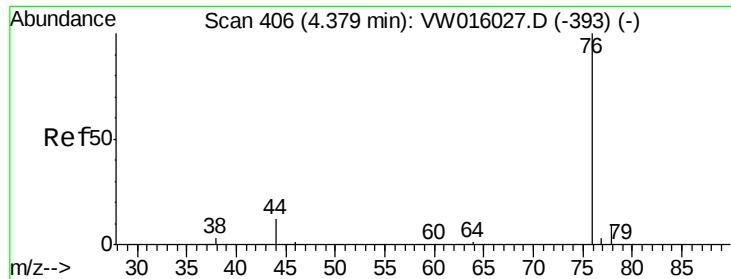
Tot Ion: 96 Resp: 2210
 Ion Ratio Lower Upper
 96 100
 61 648.0 125.0 232.2#
 63 5010.4 82.3 152.8#



#13
 Acetone
 Concen: 19.807 ug/L
 RT: 4.13 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

Tgt Ion: 43 Resp: 18002
 Ion Ratio Lower Upper
 43 100
 58 32.4 0.0 58.2





#14

Carbon disulfide

Concen: 0.384 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampled :

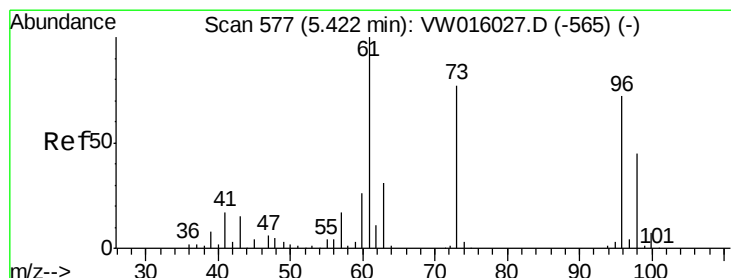
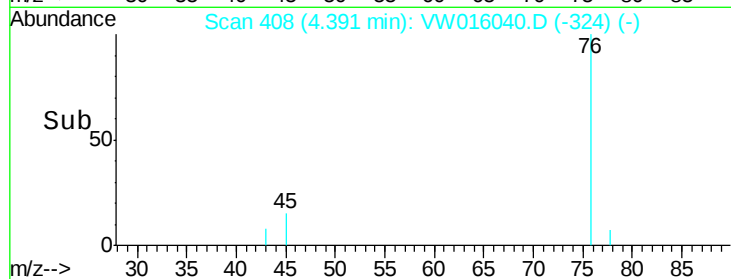
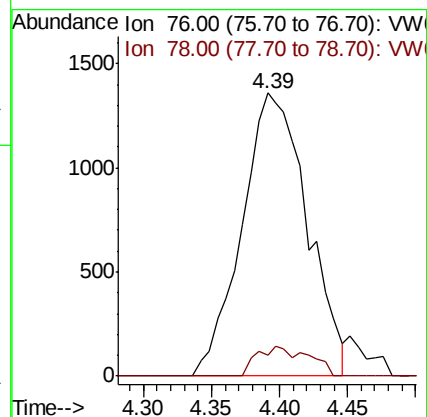
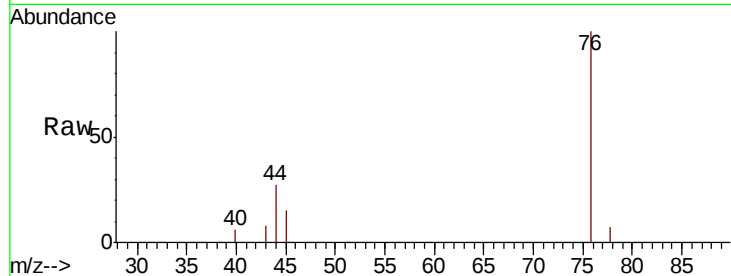
BFSM8

Tot Ion: 76 Resp: 4555

Ion Ratio Lower Upper

76 100

78 7.4 7.2 10.8



#18

trans-1,2-Dichloroethene

Concen: 2.121 ug/L

RT: 5.45 min Scan# 581

Delta R.T. 0.02 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

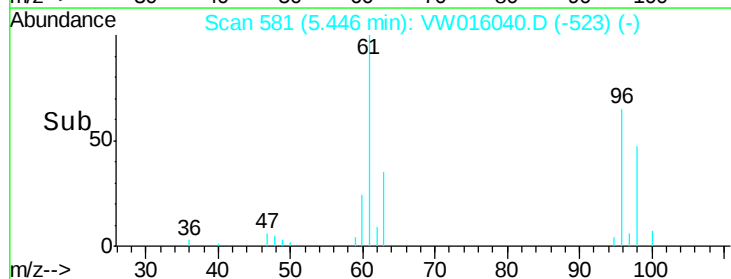
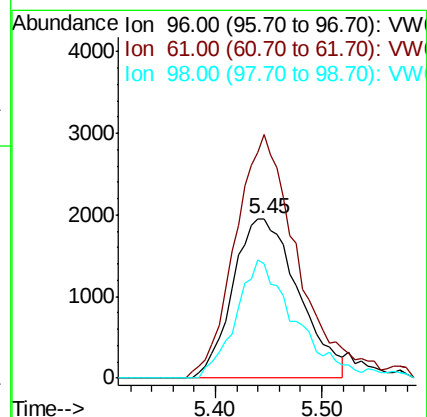
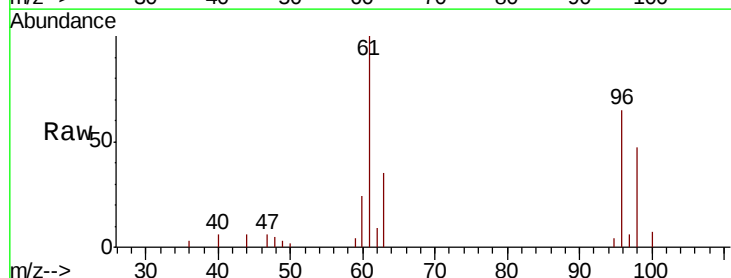
Tgt Ion: 96 Resp: 8405

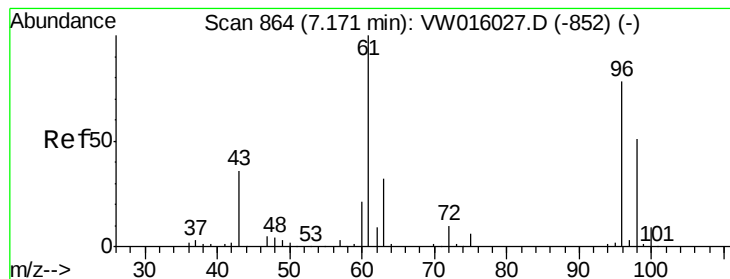
Ion Ratio Lower Upper

96 100

61 152.9 99.3 184.5

98 71.6 42.9 79.7





#21

2-Butanone

Concen: 4.529 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampled :

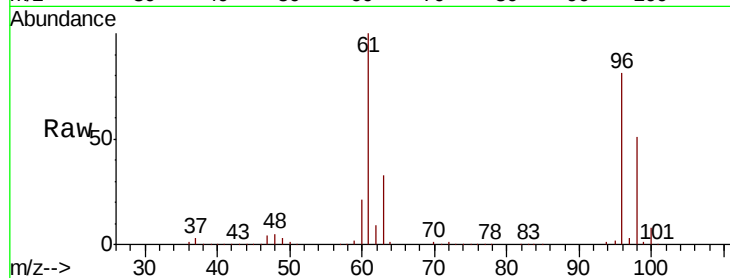
BFSM8

Tot Ion: 43 Resp: 5090

Ion Ratio Lower Upper

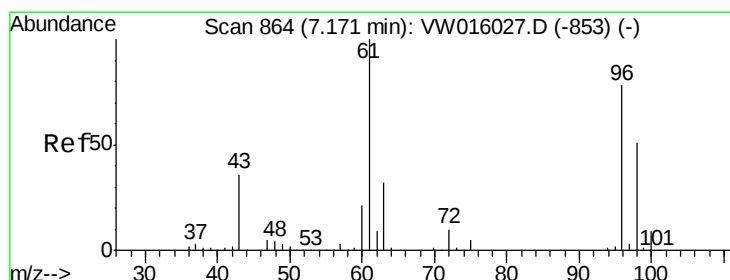
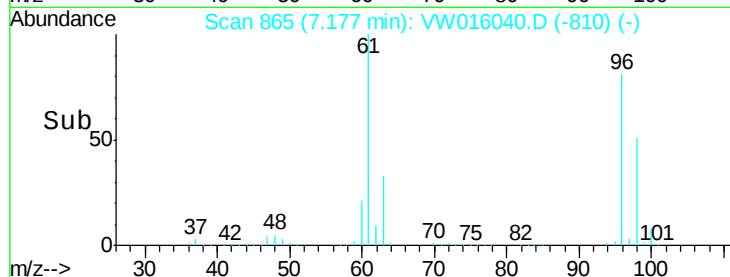
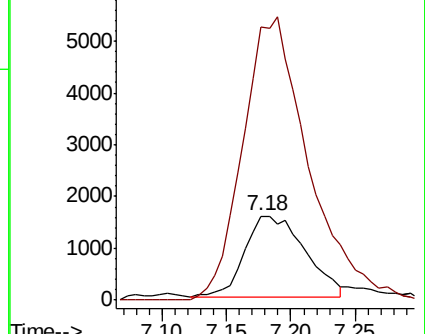
43 100

72 380.6 13.9 41.7#



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: 528.033 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

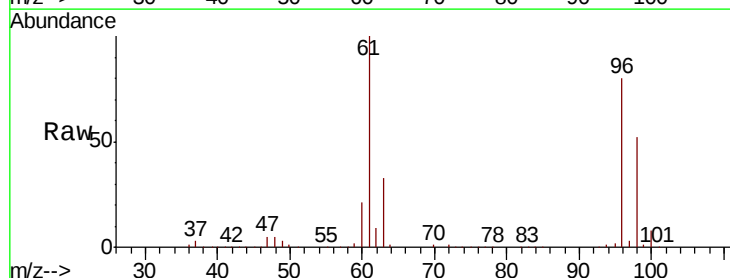
Tgt Ion: 96 Resp: 2189682

Ion Ratio Lower Upper

96 100

61 124.7 94.6 175.8

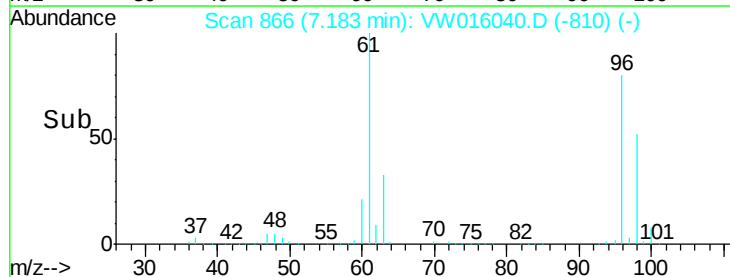
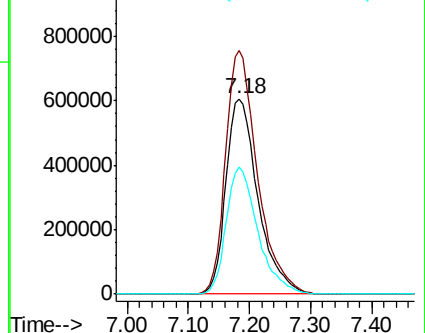
98 65.2 44.3 82.3

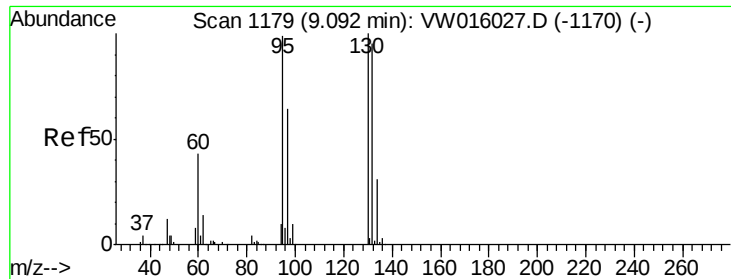


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW

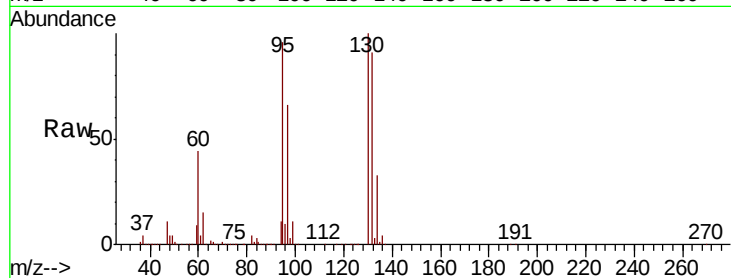




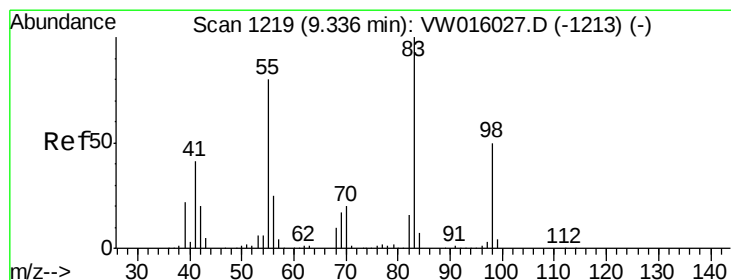
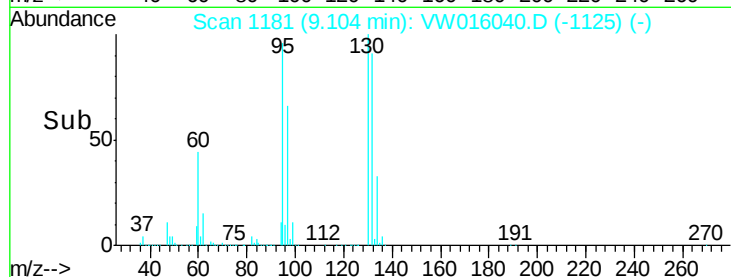
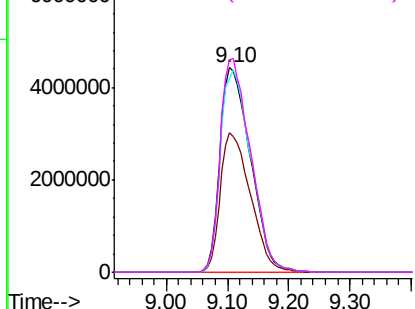
#35
 Trichloroethene
 Concen: 4503.024 ug/L
 RT: 9.10 min Scan# 1181
 Delta R.T. 0.01 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

Instrument :
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 ClientSampleId :
 BFSM8

Tot Ion: 95 Resp:15405709
 Ion Ratio Lower Upper
 95 100
 97 67.1 44.4 82.4
 132 99.2 65.1 120.9
 130 103.4 68.6 127.4

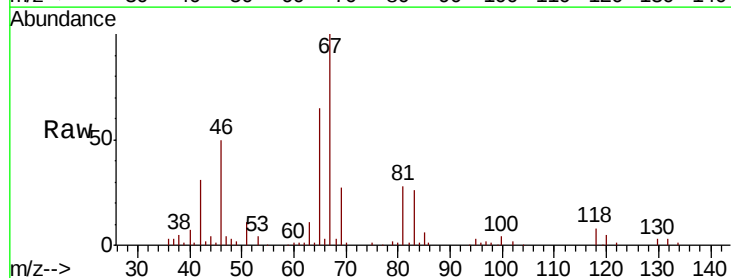


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

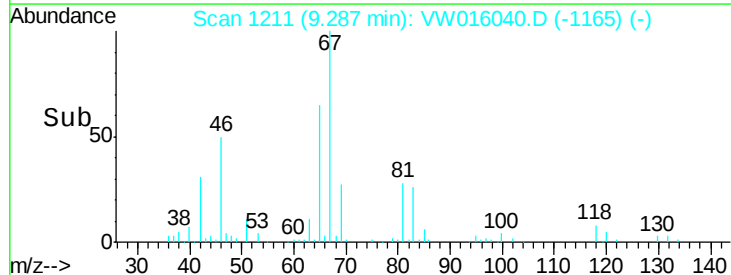
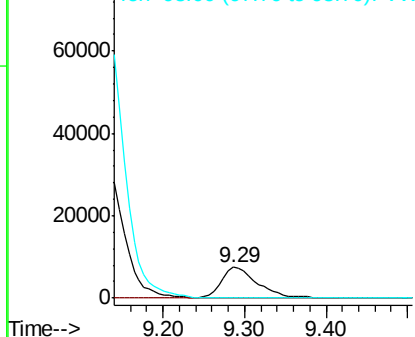


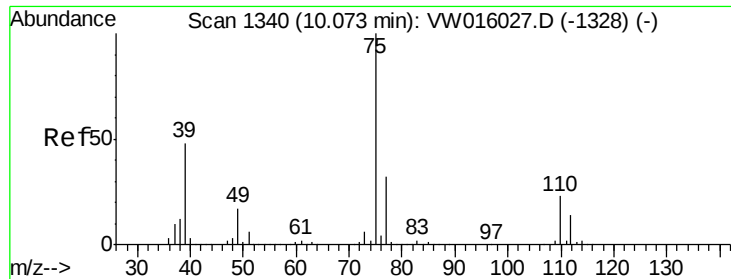
#36
 Methylcyclohexane
 Concen: 3.905 ug/L
 RT: 9.29 min Scan# 1211
 Delta R.T. -0.05 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

Tgt Ion: 83 Resp: 22922
 Ion Ratio Lower Upper
 83 100
 55 0.1 63.5 95.3#
 98 1.2 39.0 58.4#



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

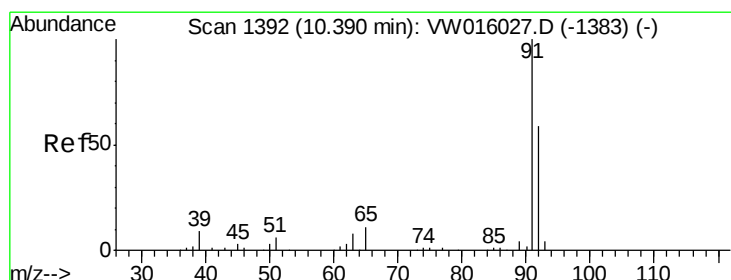
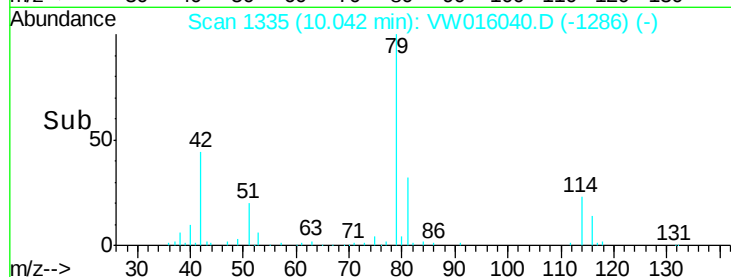
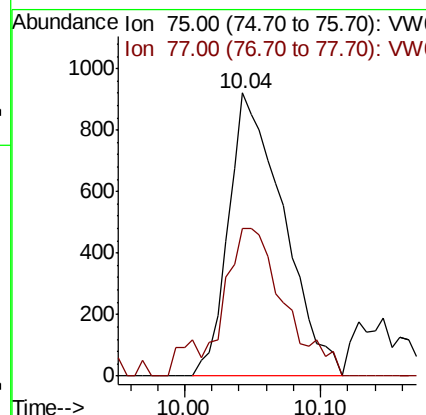
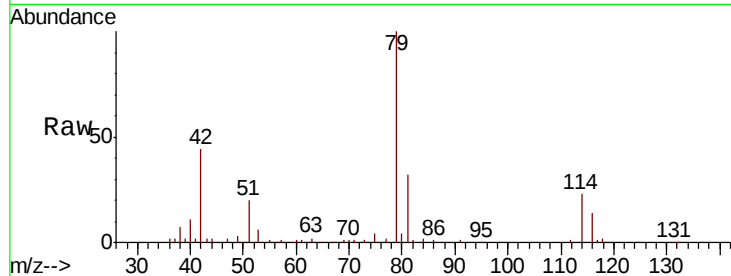




#42
 cis-1,3-Dichloropropene
 Concen: 0.530 ug/L
 RT: 10.04 min Scan# 1335
 Delta R.T. -0.03 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

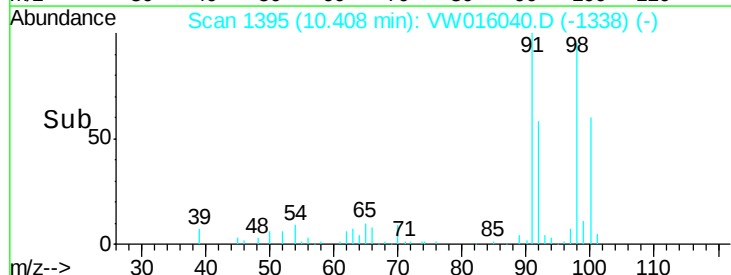
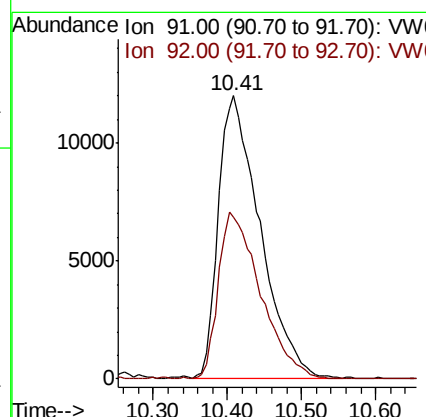
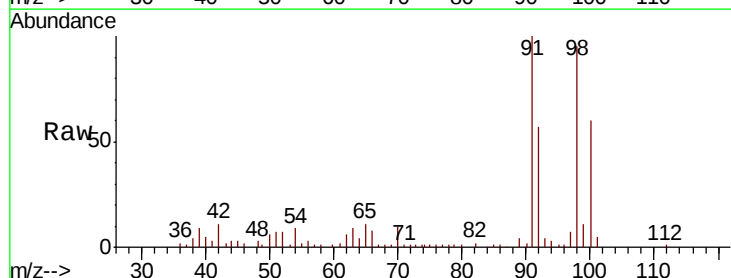
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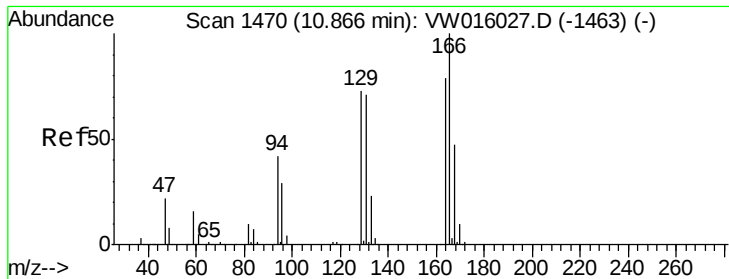
Tot Ion: 75 Resp: 2585
 Ion Ratio Lower Upper
 75 100
 77 52.2 22.2 41.2#



#44
 Toluene
 Concen: 3.453 ug/L
 RT: 10.41 min Scan# 1395
 Delta R.T. 0.02 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

Tgt Ion: 91 Resp: 46834
 Ion Ratio Lower Upper
 91 100
 92 57.3 41.2 76.4

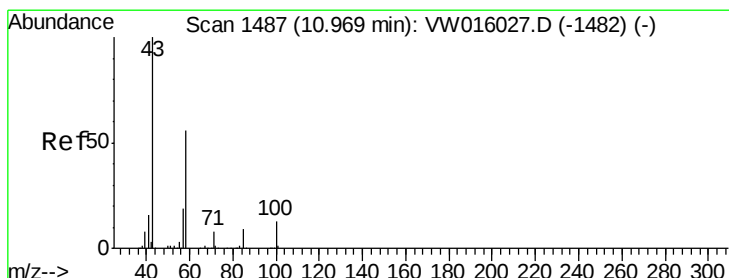
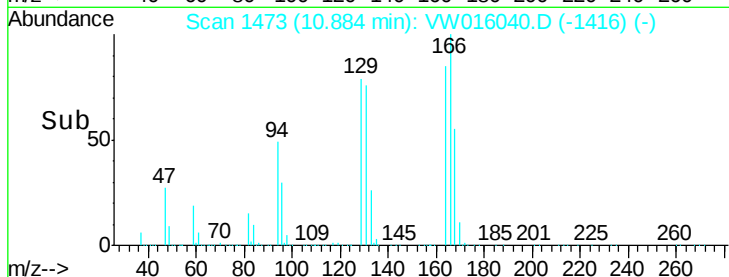
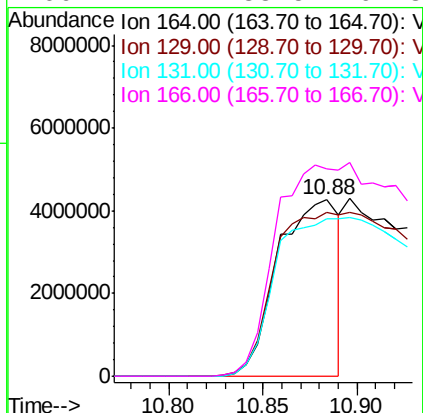
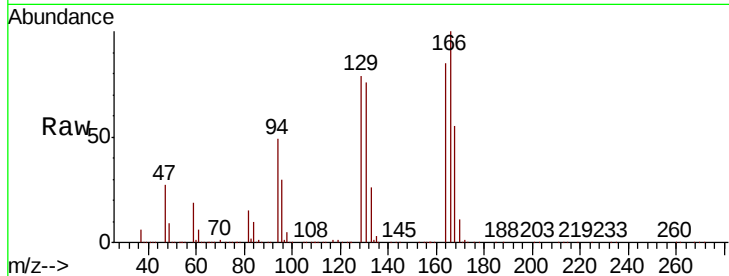




#47
Tetrachloroethene
Concen: 3609.315 ug/L
RT: 10.88 min Scan# 1473
Delta R.T. 0.02 min
Lab File: VW016040.D
Acq: 05 Aug 2020 13:43

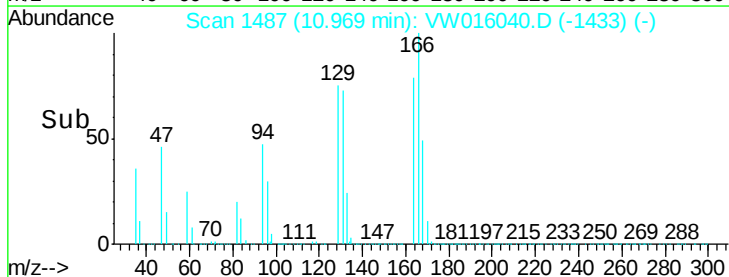
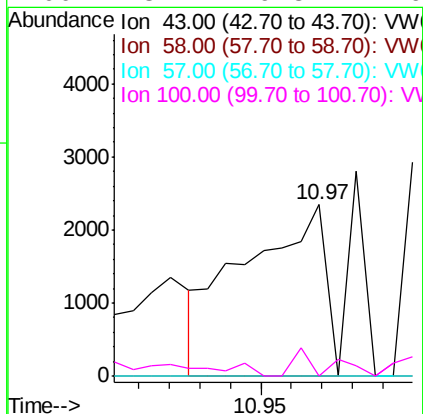
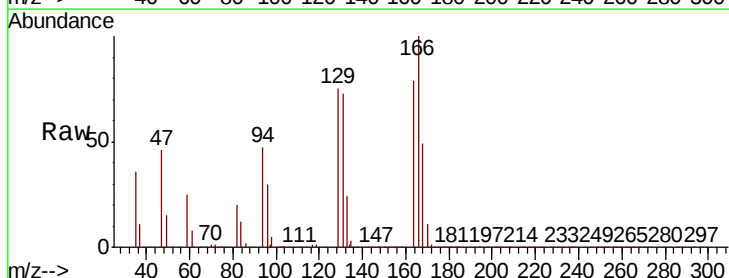
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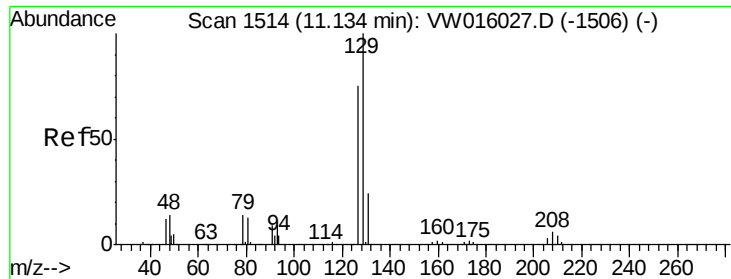
Tot Ion:164 Resp: 9584740
Ion Ratio Lower Upper
164 100
129 92.6 70.0 130.0
131 89.2 67.3 124.9
166 117.2 88.5 164.3



#49
2-Hexanone
Concen: 3.282 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW016040.D
Acq: 05 Aug 2020 13:43

Tgt Ion: 43 Resp: 4355
Ion Ratio Lower Upper
43 100
58 0.0 42.4 63.6#
57 0.0 15.6 23.4#
100 3.2 9.8 14.6#





#50

Dibromochloromethane

Concen: 3.123 ug/L

RT: 11.15 min Scan# 1517

Delta R.T. 0.02 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampled :

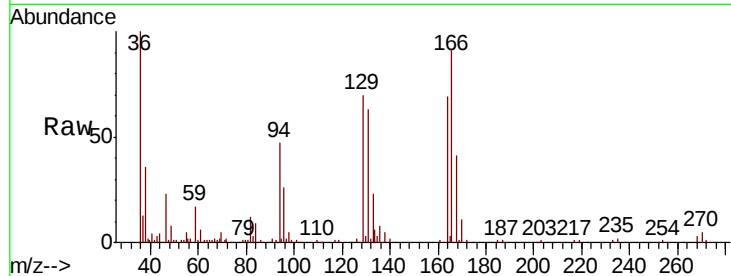
BFSM8

Tot Ion:129 Resp: 8329

Ion Ratio Lower Upper

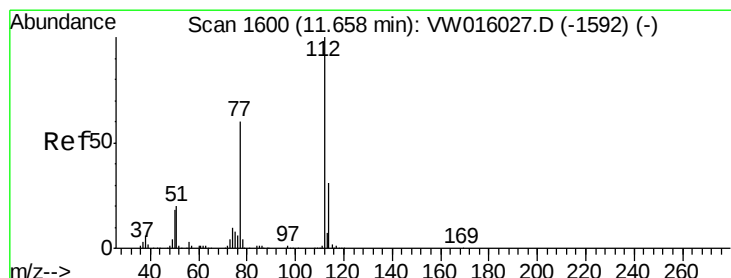
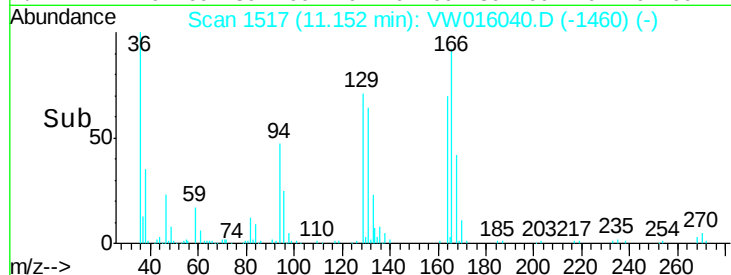
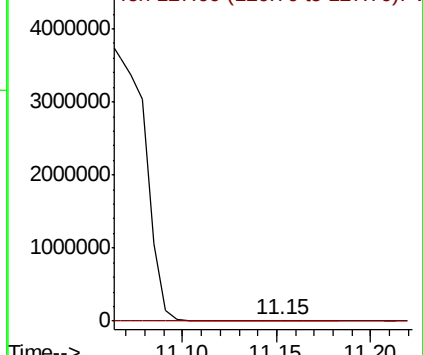
129 100

127 0.0 53.8 100.0#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#52

Chlorobenzene

Concen: 0.774 ug/L

RT: 11.68 min Scan# 1604

Delta R.T. 0.02 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

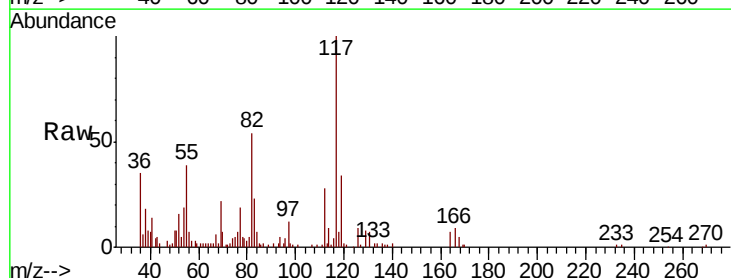
Tgt Ion:112 Resp: 6729

Ion Ratio Lower Upper

112 100

77 70.4 47.8 71.6

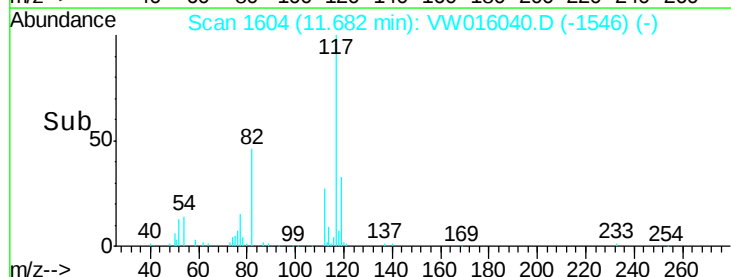
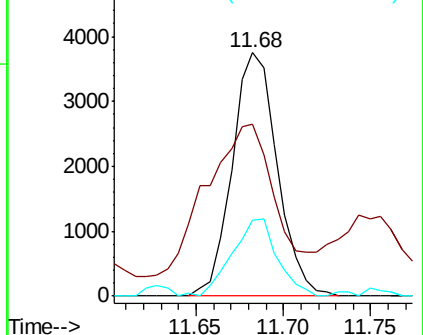
114 31.4 22.1 41.1

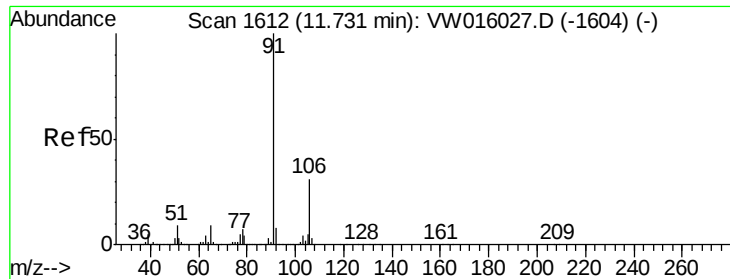


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV

Ion 114.00 (113.70 to 114.70): V

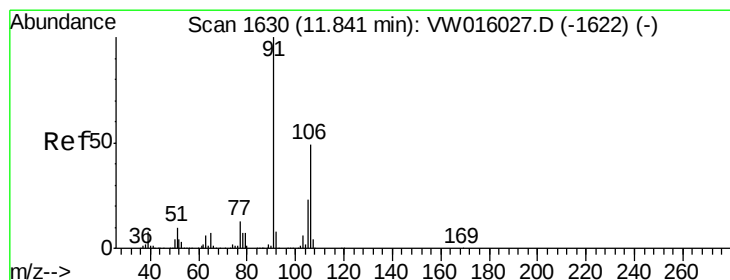
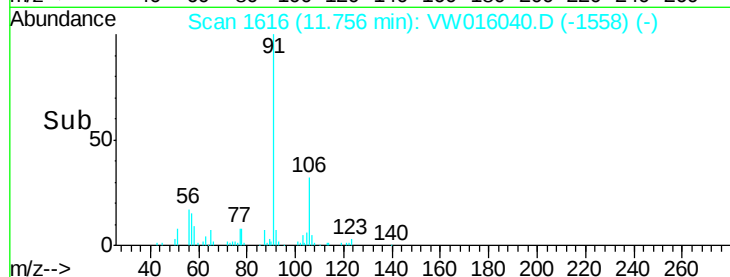
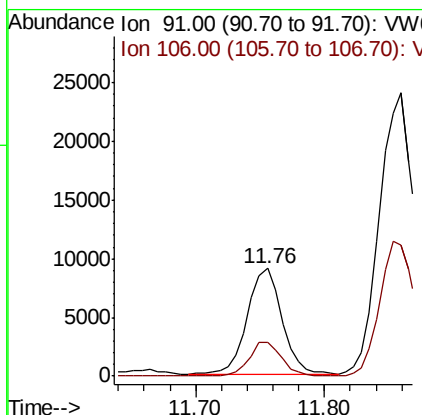
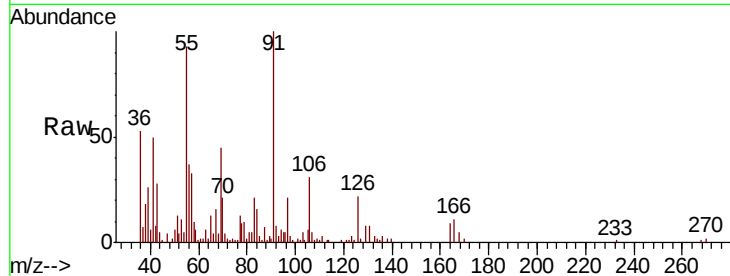




#53
Ethylbenzene
Concen: 1.112 ug/L
RT: 11.76 min Scan# 1616
Delta R.T. 0.02 min
Lab File: VW016040.D
Acq: 05 Aug 2020 13:43

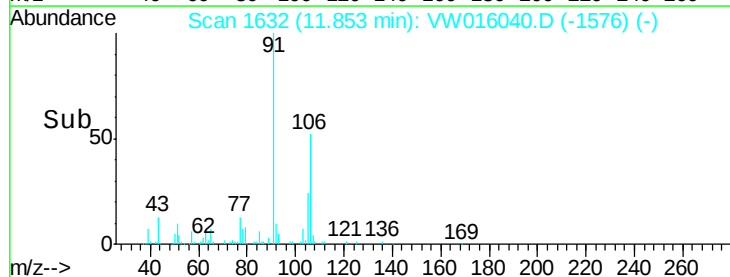
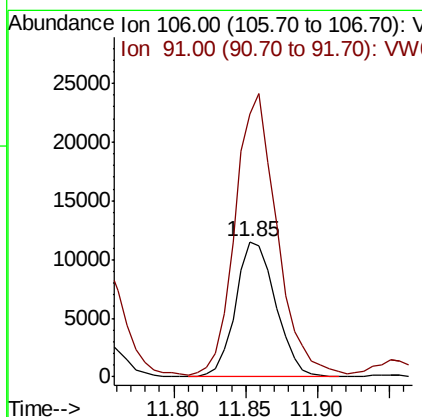
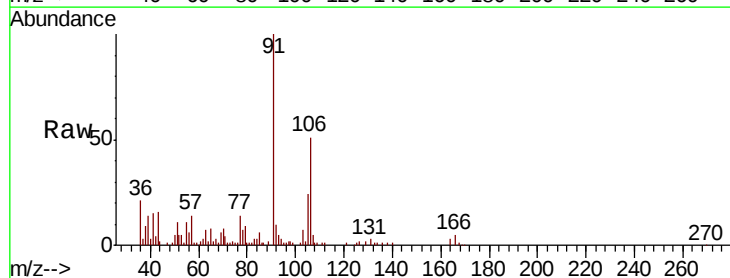
Instrument :
MSVOA_W
ClientSampleId :
BFSM8

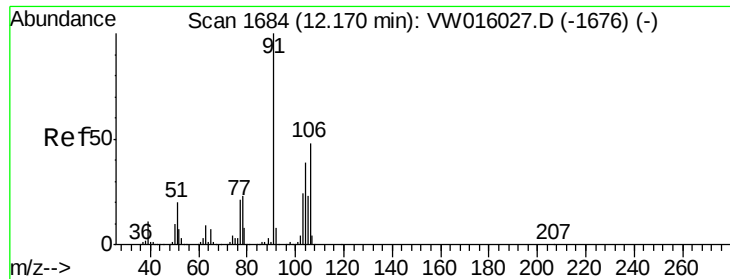
Tot Ion: 91 Resp: 16962
Ion Ratio Lower Upper
91 100
106 30.8 22.4 41.6



#54
m,p-Xylene
Concen: 3.921 ug/L
RT: 11.85 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VW016040.D
Acq: 05 Aug 2020 13:43

Tgt Ion: 106 Resp: 22378
Ion Ratio Lower Upper
106 100
91 195.1 144.1 267.5





#55

o-xylene

Concen: 1.419 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampleId :

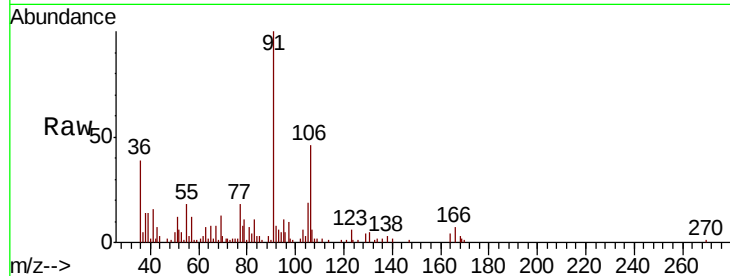
BFSM8

Tot Ion:106 Resp: 7625

Ion Ratio Lower Upper

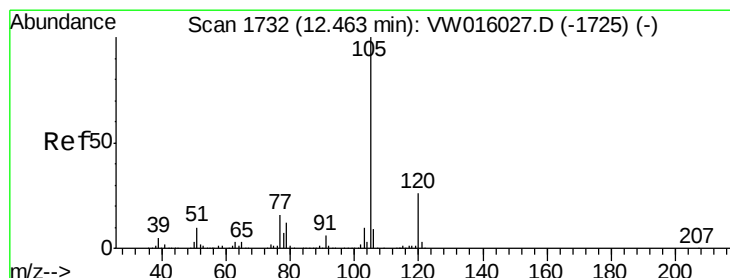
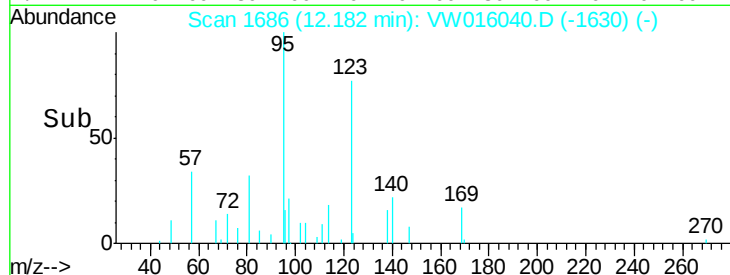
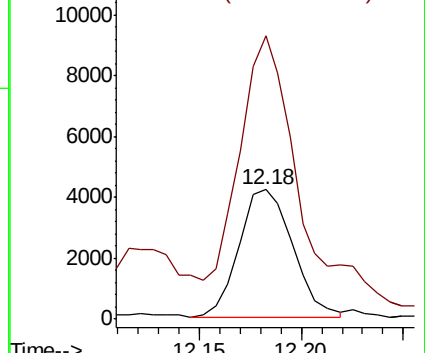
106 100

91 219.0 146.8 272.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#57

Isopropylbenzene

Concen: 0.975 ug/L

RT: 12.45 min Scan# 1730

Delta R.T. -0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

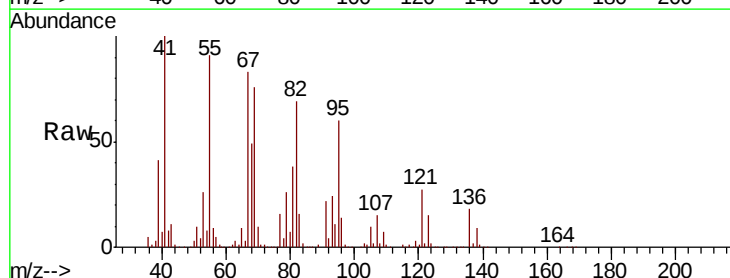
Tgt Ion:105 Resp: 14268

Ion Ratio Lower Upper

105 100

120 2.1 20.4 30.6#

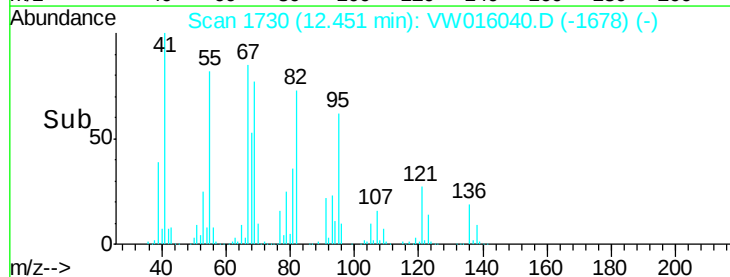
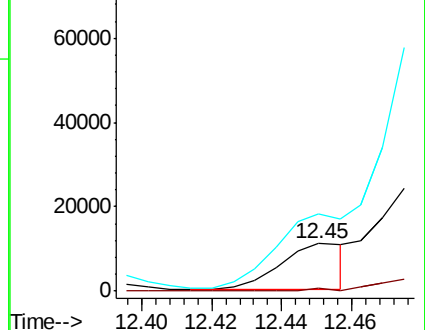
77 167.8 12.9 19.3#

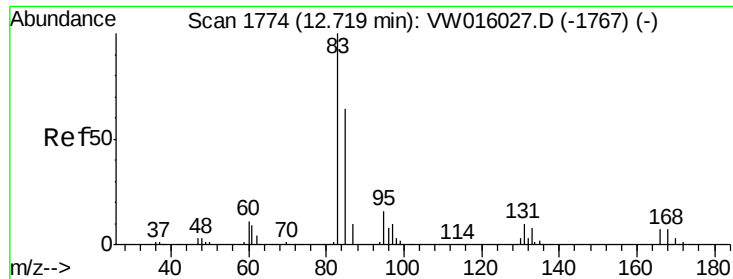


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW

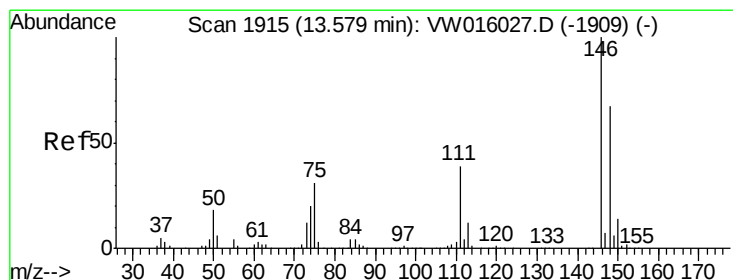
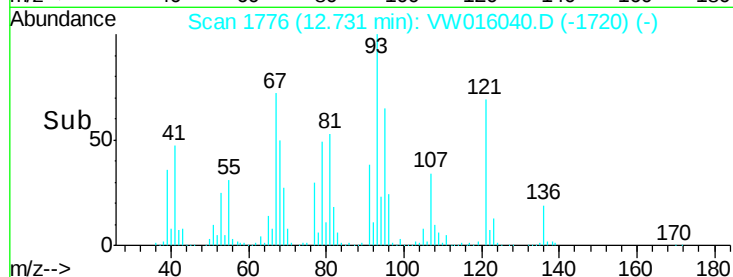
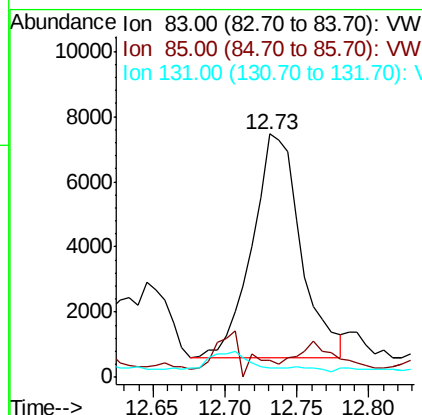
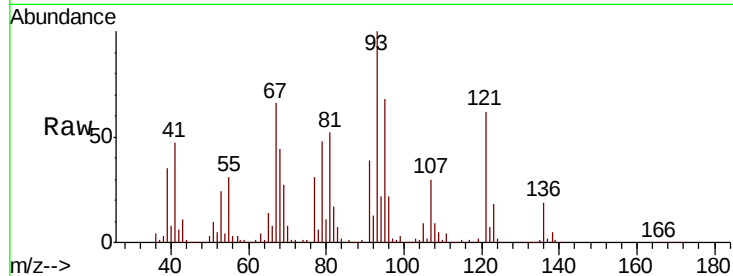




#58
 1,1,2,2-Tetrachloroethane
 Concen: 5.913 ug/L
 RT: 12.73 min Scan# 1776
 Delta R.T. 0.01 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

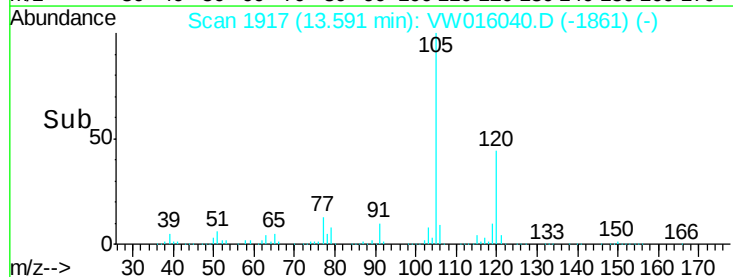
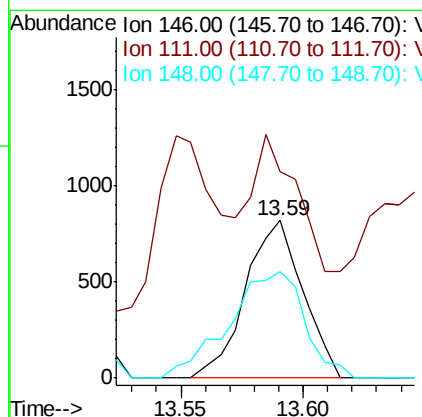
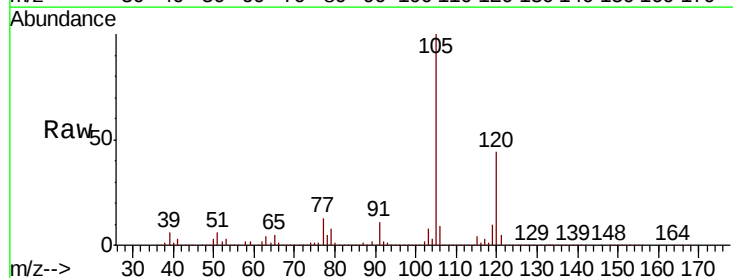
Instrument :
 MSVOA_W
 ClientSampleId :
 BFSM8

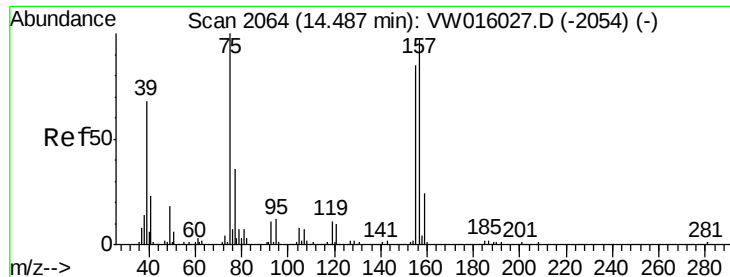
Tot Ion: 83 Resp: 15996
 Ion Ratio Lower Upper
 83 100
 85 7.2 45.1 83.7#
 131 4.1 8.2 12.4#



#64
 1,4-Dichlorobenzene
 Concen: 0.510 ug/L
 RT: 13.59 min Scan# 1917
 Delta R.T. 0.01 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

Tgt Ion: 146 Resp: 1335
 Ion Ratio Lower Upper
 146 100
 111 131.5 29.3 54.3#
 148 68.1 44.5 82.7

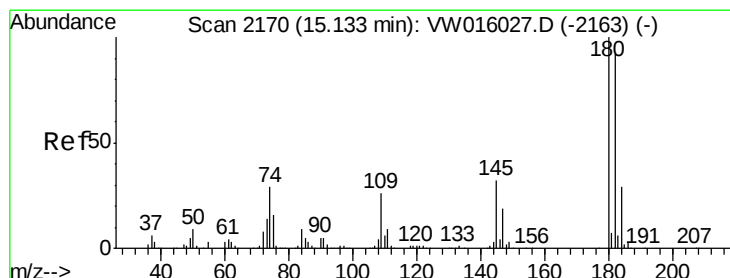
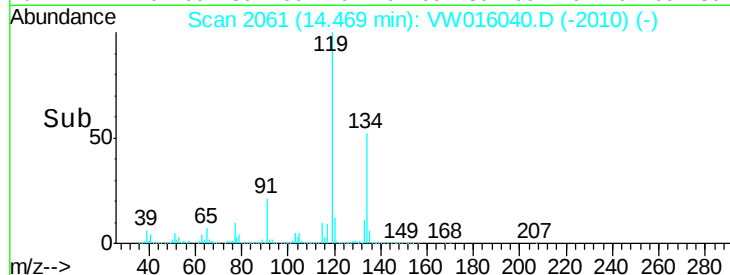
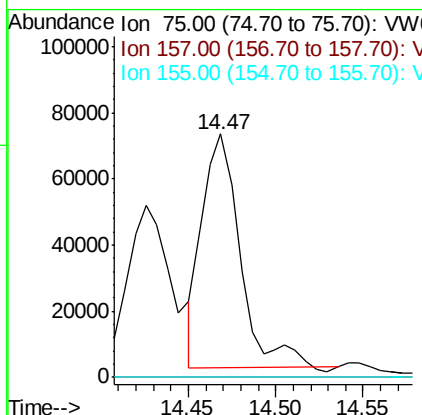
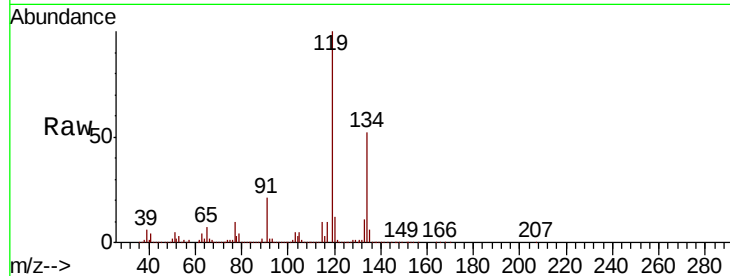




#66
 1,2-Dibromo-3-chloropropane
 Concen: 602.431 ug/L
 RT: 14.47 min Scan# 2061
 Delta R.T. -0.02 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

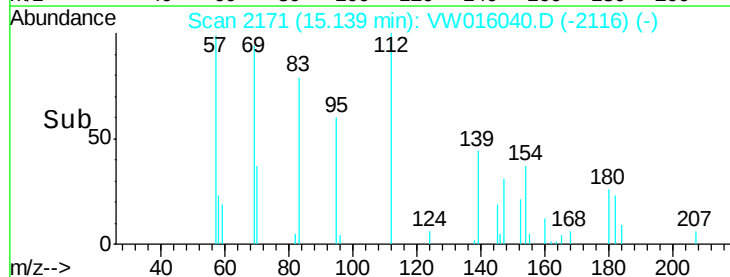
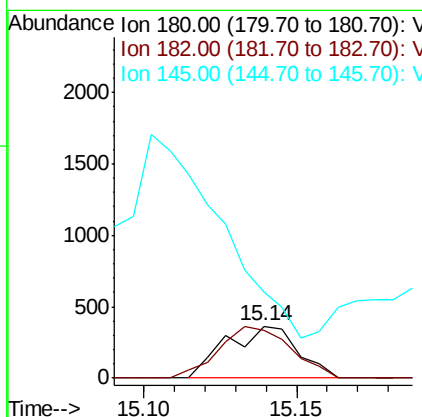
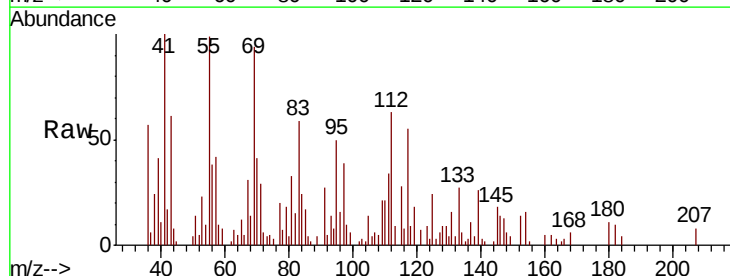
Instrument :
 MSVOA_W
 ClientSampleId :
 BFSM8

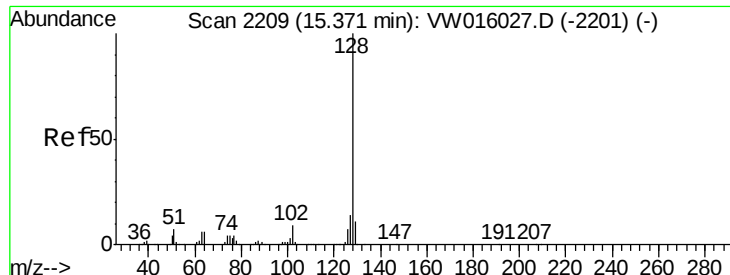
Tot Ion: 75 Resp: 106269
 Ion Ratio Lower Upper
 75 100
 157 0.0 83.0 124.4#
 155 0.0 66.9 100.3#



#68
 1,2,4-trichlorobenzene
 Concen: 0.411 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW016040.D
 Acq: 05 Aug 2020 13:43

Tgt Ion: 180 Resp: 592
 Ion Ratio Lower Upper
 180 100
 182 99.7 76.0 114.0
 145 474.3 24.3 36.5#





#69

Naphthalene

Concen: 156.152 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampleId :

BFSM8

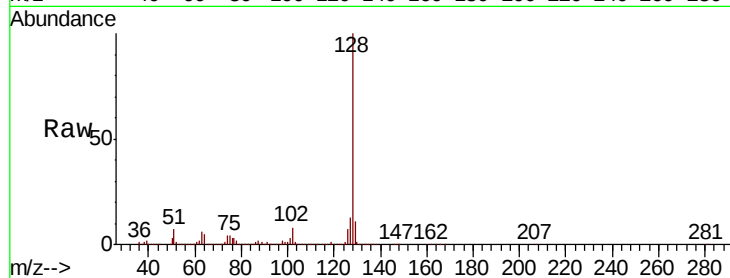
Tot Ion:128 Resp: 423919

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

