

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022820\
 Data File : VW015076.D
 Acq On : 28 Feb 2020 12:58
 Operator : SY/VA
 Sample : L1677-10RE
 Misc : 5.26G/10ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Feb 29 04:56:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022420S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 29 04:55:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	11019	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	3524	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	247	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	10353	37.56	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	150.24%#
7) Chloroethane-d5	2.90	69	8714	43.86	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	175.44%#
10) 1,1-Dichloroethene-d2	4.03	63	11807	27.53	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	110.12%#
20) 2-Butanone-d5	7.10	46	1138	24.70	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	49.40%
24) Chloroform-d	7.65	84	12997	35.90	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	143.60%
26) 1,2-Dichloroethane-d4	8.31	65	5787	28.57	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	114.28%
29) Benzene-d6	8.27	84	20263	83.68	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	334.72%#
33) 1,2-Dichloropropane-d6	9.27	67	7249	89.42	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	357.68%#
37) Toluene-d8	10.33	98	8650	42.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	171.28%#
38) trans-1,3-Dichloropropene-	10.58	79	580	19.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	77.44%
39) 2-Hexanone-d5	10.93	63	21	1.96	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	3.92%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	1892	36.12	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	144.48%#
61) 1,2-Dichlorobenzene-d4	13.84	152	124	13.70	ug/L	-0.01
Spiked Amount	25.000	Range	75 - 120	Recovery	=	54.80%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.26	85	91	0.968	ug/L # 2
3) Chloromethane	2.21	50	346	1.605	ug/L # 9
5) Vinyl chloride	2.26	62	109	0.391	ug/L 96
6) Bromomethane	2.82	94	44	0.351	ug/L 78
8) Chloroethane	2.92	64	167	1.101	ug/L # 44
9) Trichlorofluoromethane	3.11	101	51	0.406	ug/L 82
13) Acetone	4.14	43	740	13.580	ug/L 97
25) Chloroform	7.66	83	129	0.374	ug/L 88
32) Carbon tetrachloride	8.16	117	50	0.614	ug/L # 2
35) Trichloroethene	9.16	95	42	0.662	ug/L # 30
36) Methylcyclohexane	9.31	83	50	0.459	ug/L # 30
40) 1,2-Dichloropropane	9.27	63	699	9.601	ug/L # 89
42) cis-1,3-Dichloropropene	10.03	75	53	0.559	ug/L # 32
43) 4-Methyl-2-pentanone	10.21	43	202	4.961	ug/L # 86
44) Toluene	10.38	91	150	0.589	ug/L # 22
45) trans-1,3-Dichloropropene	10.57	75	52	0.678	ug/L # 1
46) 1,1,2-Trichloroethane	10.88	97	51	1.245	ug/L # 13

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 Quant Title : VOC Analysis
 QLast Update : Sat Feb 29 04:55:00 2020
 Response via : Initial Calibration

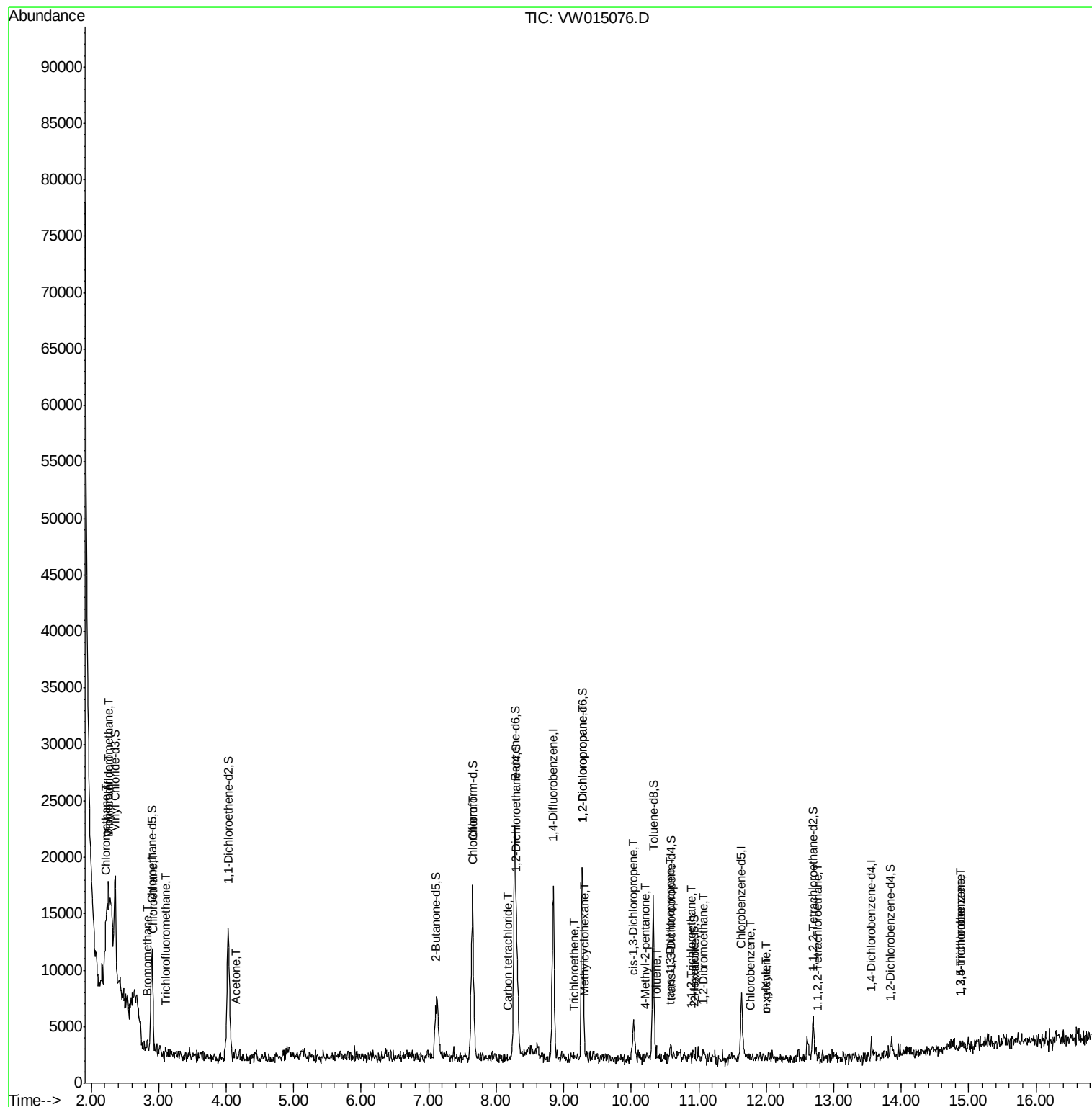
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone	10.94	43	69	2.337	ug/L #	41
51) 1,2-Dibromoethane	11.07	107	57	1.596	ug/L #	8
52) Chlorobenzene	11.77	112	49	0.327	ug/L #	29
54) m,p-Xylene	12.01	106	42	0.432	ug/L #	1
55) o-xylene	12.01	106	42	0.463	ug/L #	1
58) 1,1,2,2-Tetrachloroethane	12.76	83	48	0.929	ug/L #	25
67) 1,3,5-Trichlorobenzene	14.86	180	42	3.887	ug/L #	19
68) 1,2,4-trichlorobenzene	14.86	180	42	5.318	ug/L #	13

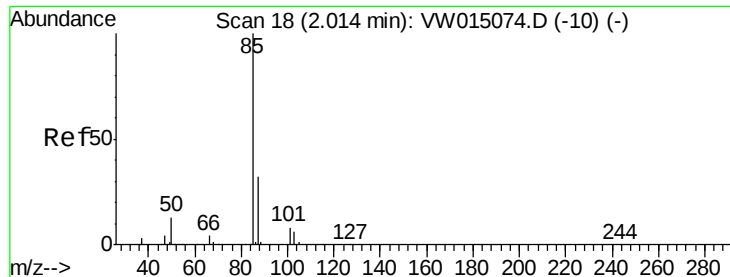
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Sat Feb 29 04:55:00 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.968 ug/L

RT: 2.26 min Scan# 59

Delta R.T. 0.25 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

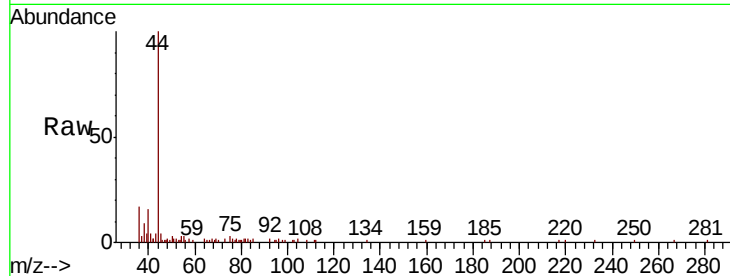
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 85 Resp: 91

Ion Ratio Lower Upper

85 100

87 85.7 22.0 41.0#



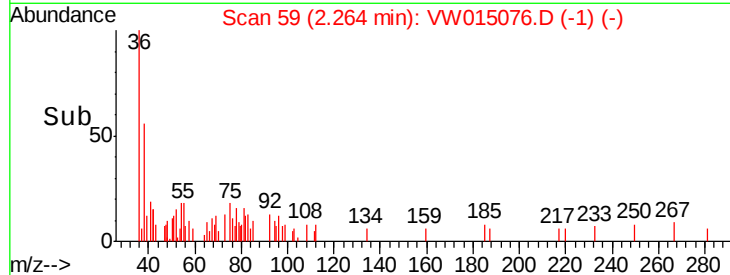
Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW

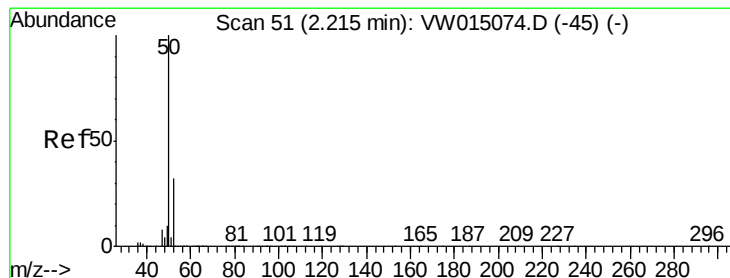
2.26

2.27

2.28



Time-->



#3

Chloromethane

Concen: 1.605 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015076.D

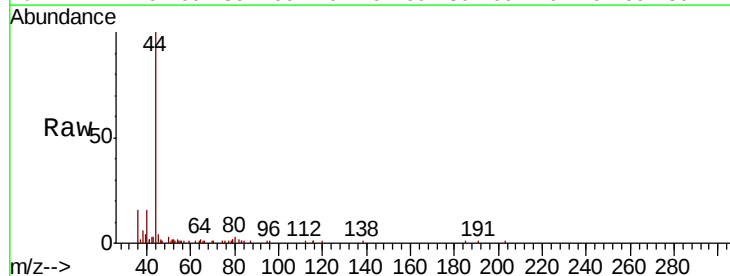
Acq: 28 Feb 2020 12:58

Tgt Ion: 50 Resp: 346

Ion Ratio Lower Upper

50 100

52 82.8 22.3 41.5#



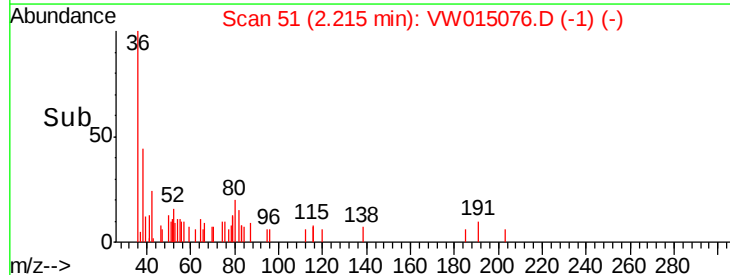
Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW

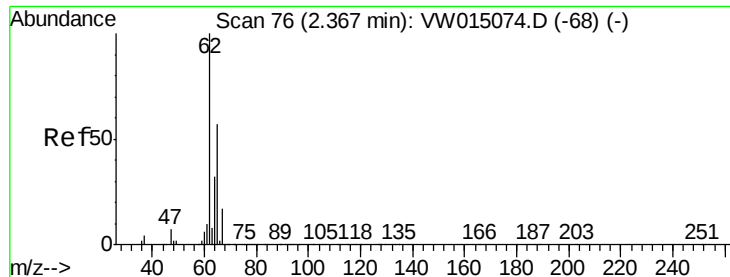
2.21

2.22

2.24



Time-->



#5

Vinyl chloride

Concen: 0.391 ug/L

RT: 2.26 min Scan# 58

Delta R.T. -0.11 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

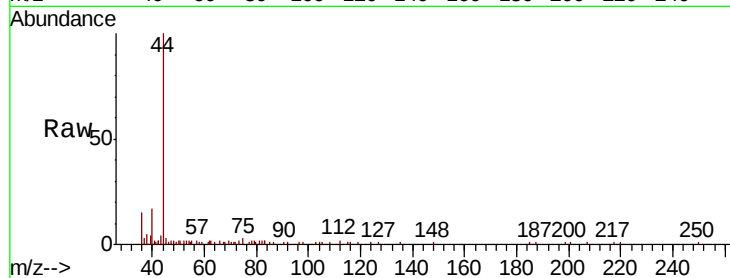
ClientSampled :

Tot Ion: 62 Resp: 109

Ion Ratio Lower Upper

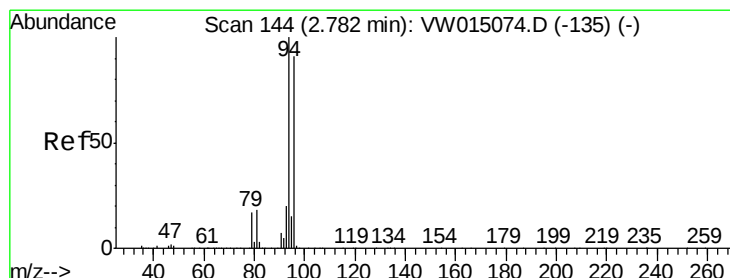
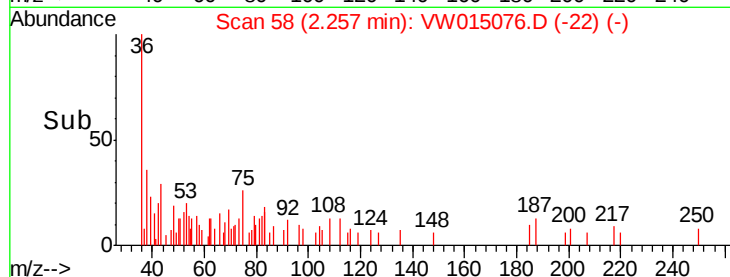
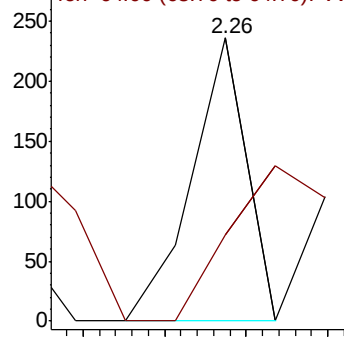
62 100

64 30.5 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 0.351 ug/L

RT: 2.82 min Scan# 151

Delta R.T. 0.04 min

Lab File: VW015076.D

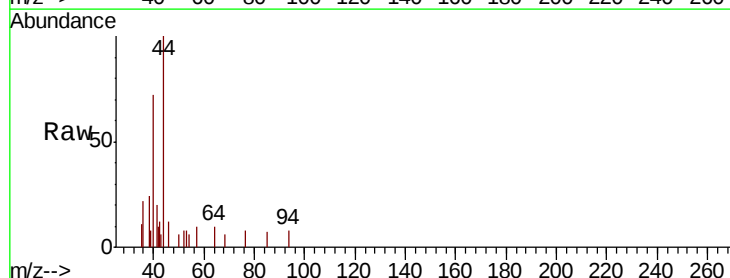
Acq: 28 Feb 2020 12:58

Tgt Ion: 94 Resp: 44

Ion Ratio Lower Upper

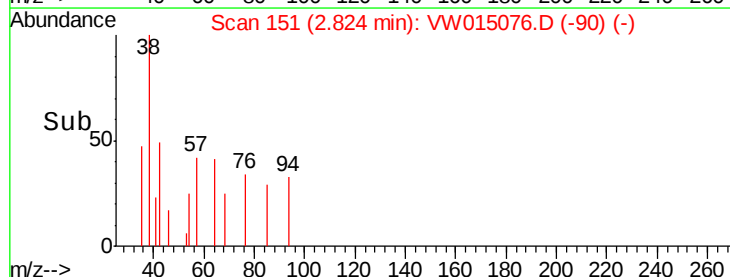
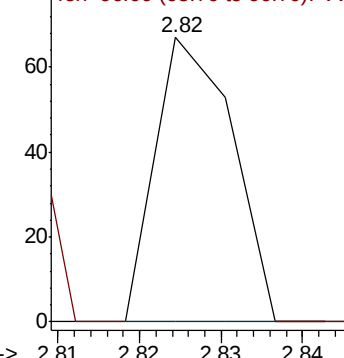
94 100

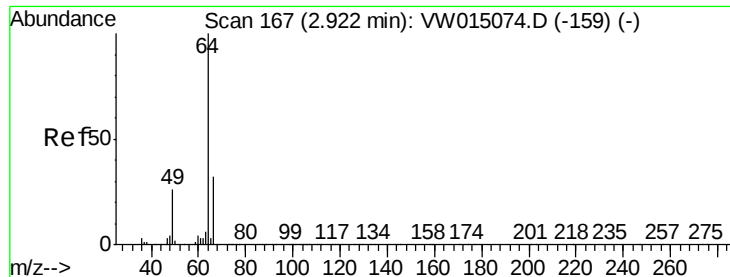
96 115.9 9.5 179.7



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 1.101 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

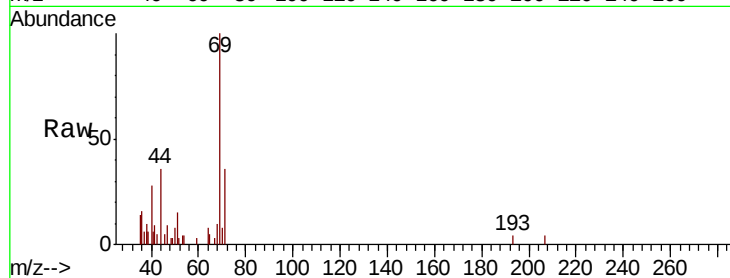
ClientSampleId :

Tot Ion: 64 Resp: 167

Ion Ratio Lower Upper

64 100

66 0.0 21.2 39.4#



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW

2.92

250

200

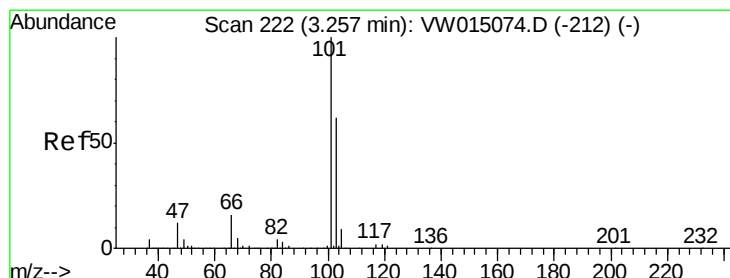
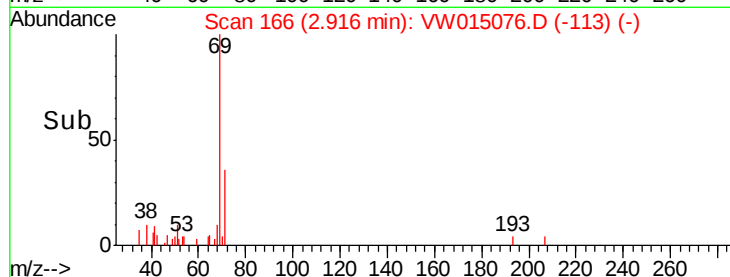
150

100

50

0

Time-->



#9

Trichlorofluoromethane

Concen: 0.406 ug/L

RT: 3.11 min Scan# 198

Delta R.T. -0.15 min

Lab File: VW015076.D

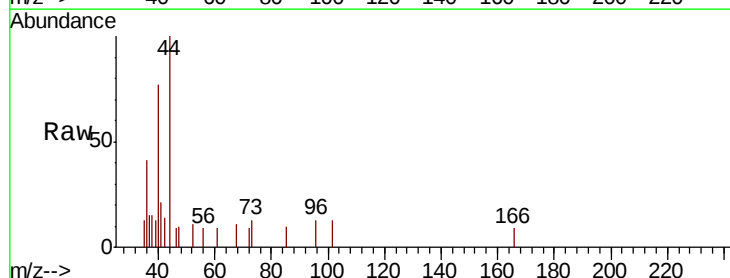
Acq: 28 Feb 2020 12:58

Tgt Ion: 101 Resp: 51

Ion Ratio Lower Upper

101 100

103 78.4 44.9 83.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.11

80

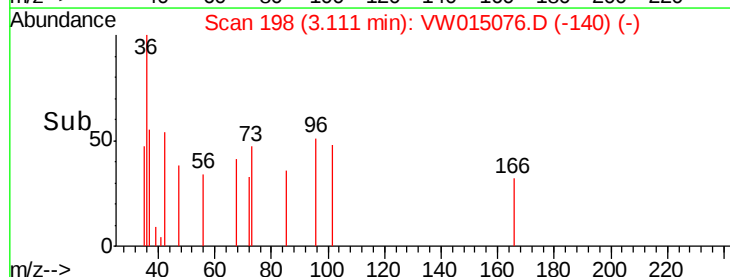
60

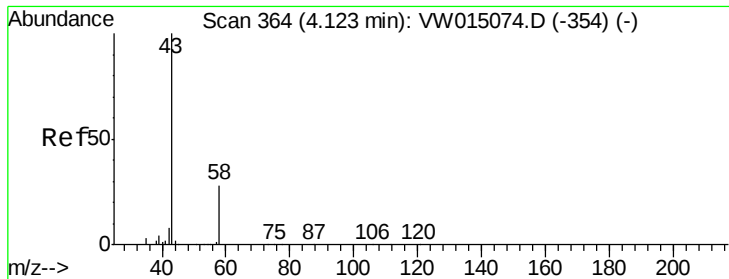
40

20

0

Time-->





#13

Acetone

Concen: 13.580 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

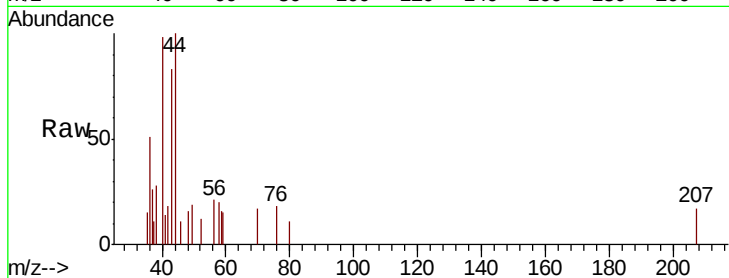
ClientSampleId :

Tot Ion: 43 Resp: 740

Ion Ratio Lower Upper

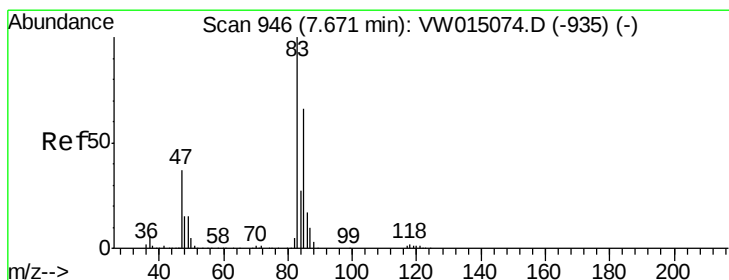
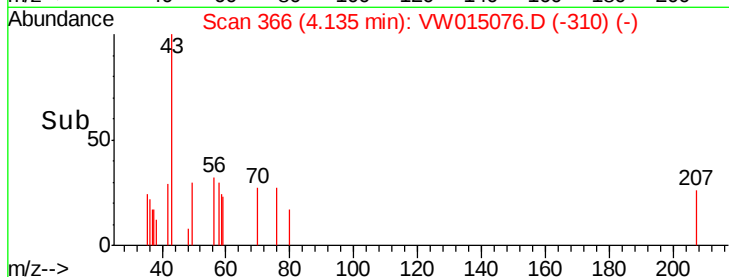
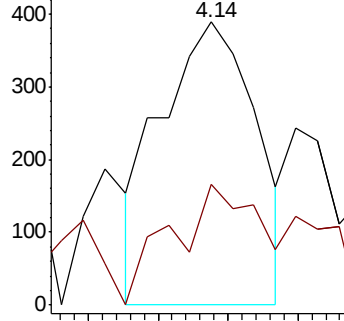
43 100

58 25.4 0.0 54.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#25

Chloroform

Concen: 0.374 ug/L

RT: 7.66 min Scan# 944

Delta R.T. -0.01 min

Lab File: VW015076.D

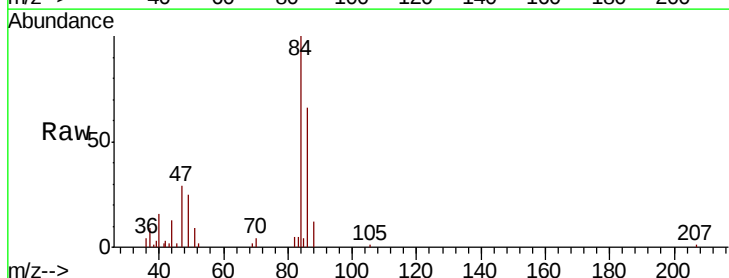
Acq: 28 Feb 2020 12:58

Tgt Ion: 83 Resp: 129

Ion Ratio Lower Upper

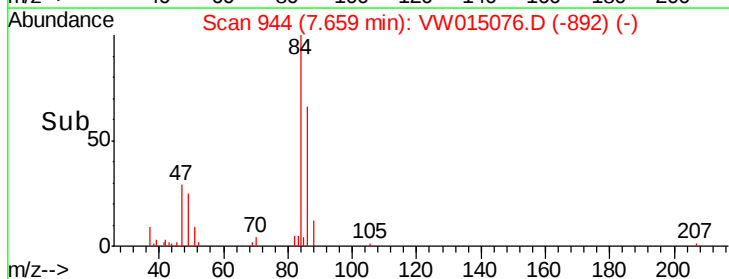
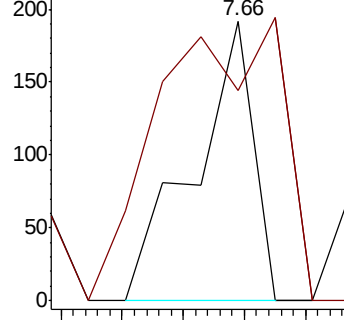
83 100

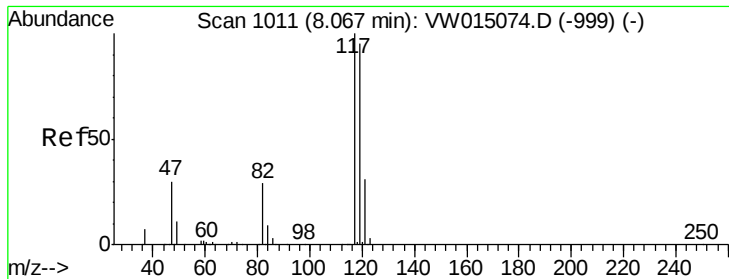
85 55.0 44.9 83.5



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



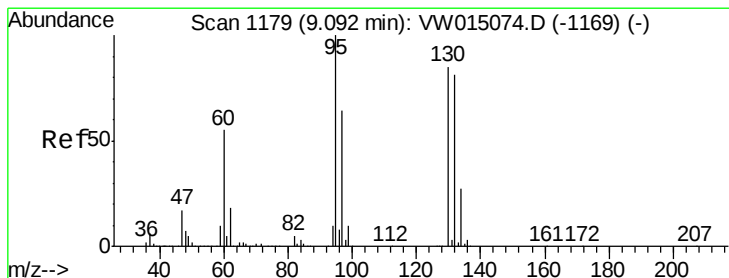
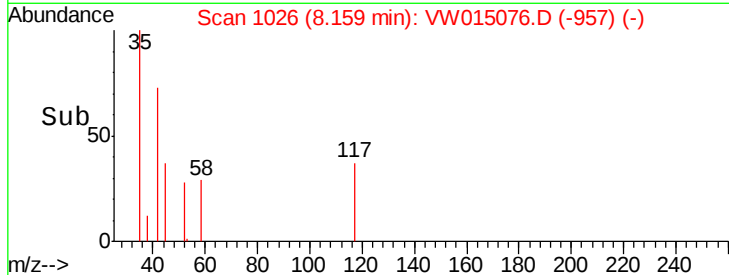
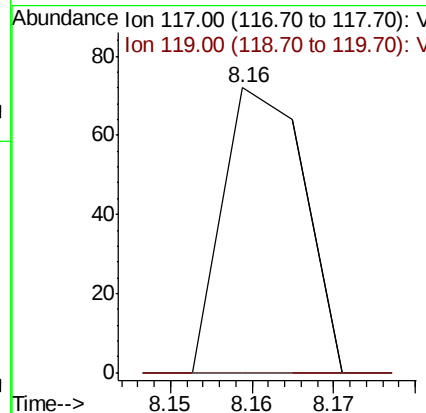
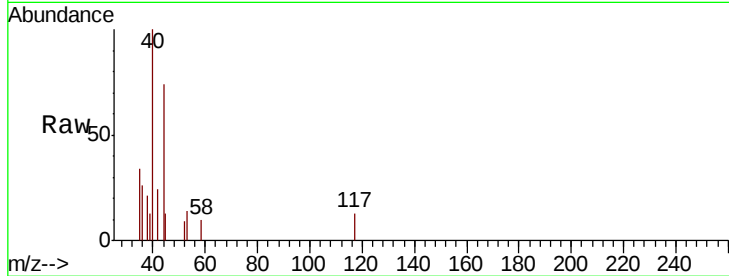


#32

Carbon tetrachloride
Concen: 0.614 ug/L
RT: 8.16 min Scan# 1026
Delta R.T. 0.09 min
Lab File: VW015076.D
Acq: 28 Feb 2020 12:58

Instrument :
MSVOA_W
ClientSampleId :

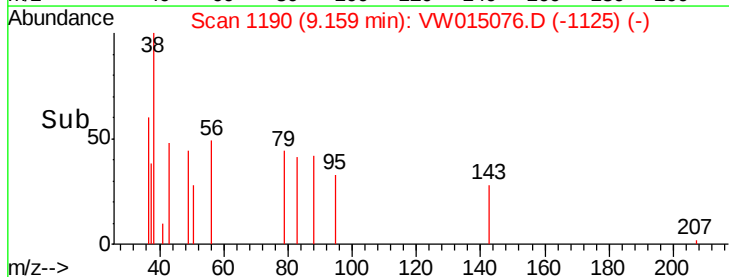
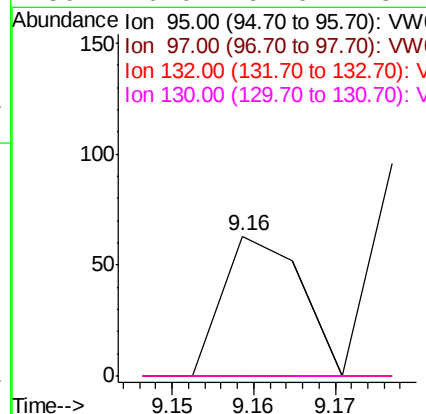
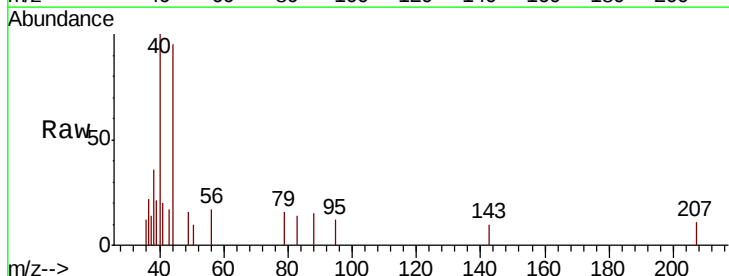
Tot Ion:117 Resp: 50
Ion Ratio Lower Upper
117 100
119 0.0 76.3 114.5#

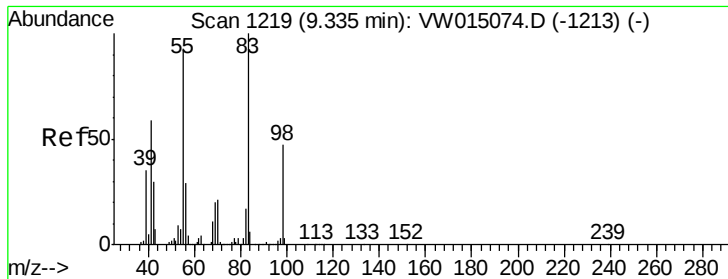


#35

Trichloroethene
Concen: 0.662 ug/L
RT: 9.16 min Scan# 1190
Delta R.T. 0.07 min
Lab File: VW015076.D
Acq: 28 Feb 2020 12:58

Tgt Ion: 95 Resp: 42
Ion Ratio Lower Upper
95 100
97 59.5 44.7 83.1
132 0.0 58.1 107.9#
130 0.0 62.0 115.2#

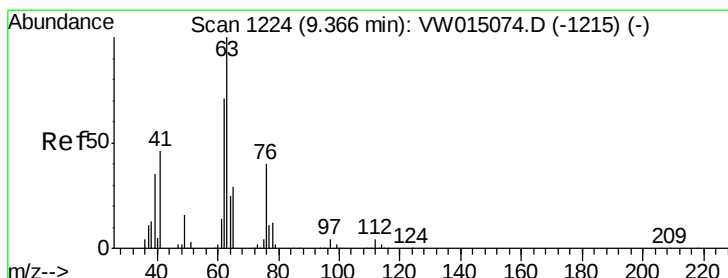
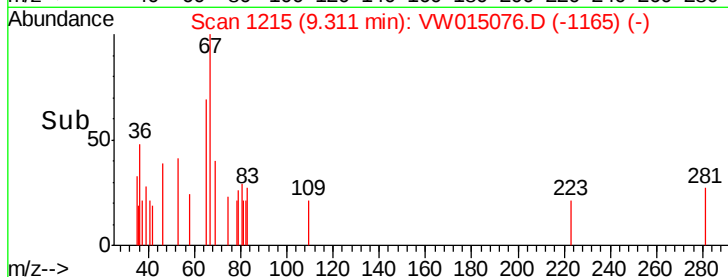
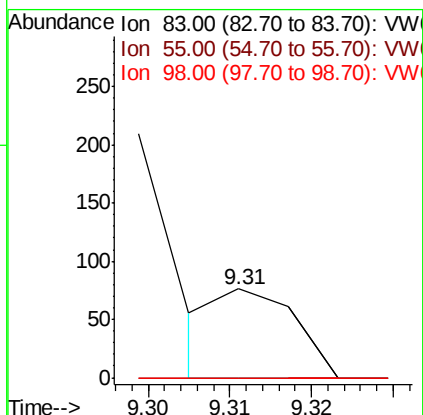
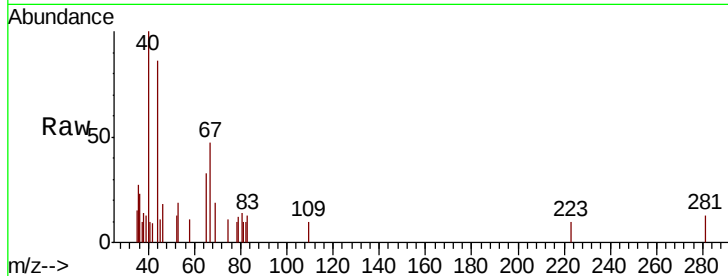




#36
Methylcyclohexane
Concen: 0.459 ug/L
RT: 9.31 min Scan# 1215
Delta R.T. -0.02 min
Lab File: VW015076.D
Acq: 28 Feb 2020 12:58

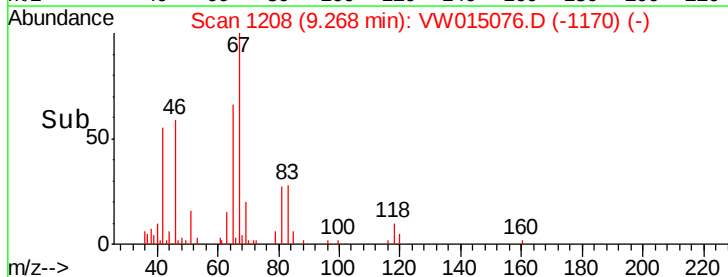
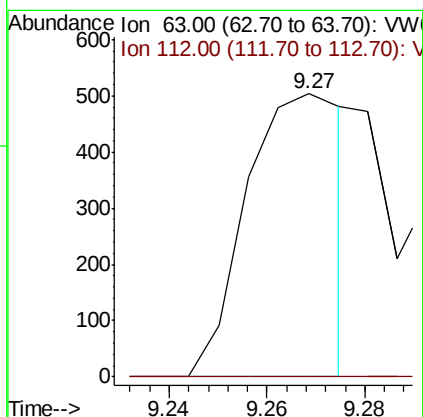
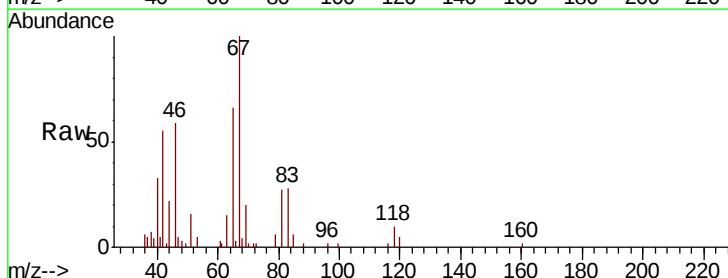
Instrument :
MSVOA_W
ClientSampled :

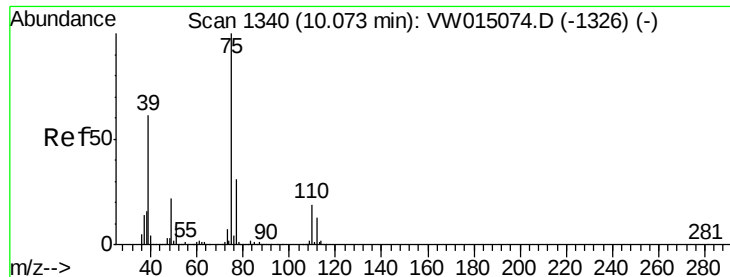
Tot Ion: 83 Resp: 50
Ion Ratio Lower Upper
83 100
55 0.0 76.6 115.0#
98 38.0 36.6 54.8



#40
1,2-Dichloropropane
Concen: 9.601 ug/L
RT: 9.27 min Scan# 1208
Delta R.T. -0.10 min
Lab File: VW015076.D
Acq: 28 Feb 2020 12:58

Tgt Ion: 63 Resp: 699
Ion Ratio Lower Upper
63 100
112 0.0 2.8 4.2#





#42

cis-1,3-Dichloropropene

Concen: 0.559 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

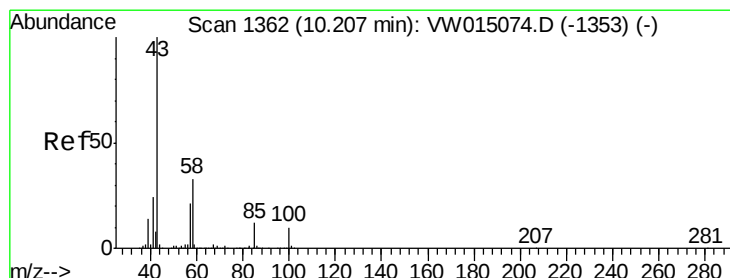
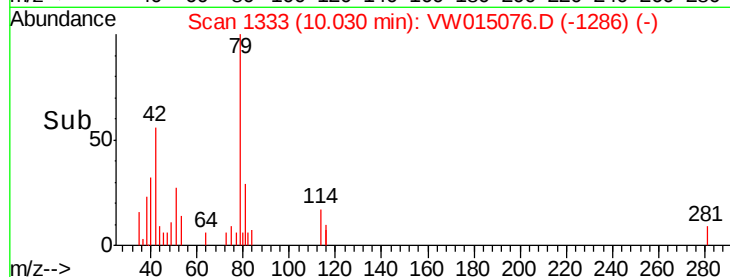
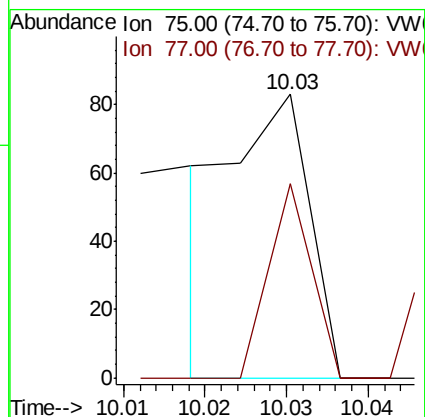
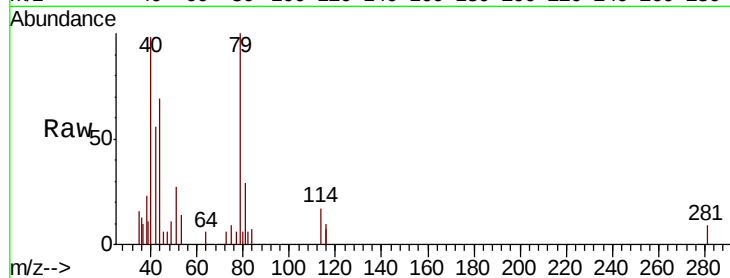
ClientSampleId :

Tot Ion: 75 Resp: 53

Ion Ratio Lower Upper

75 100

77 68.7 21.9 40.7#



#43

4-Methyl-2-pentanone

Concen: 4.961 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

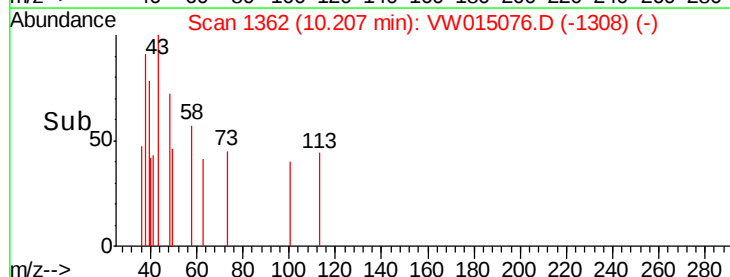
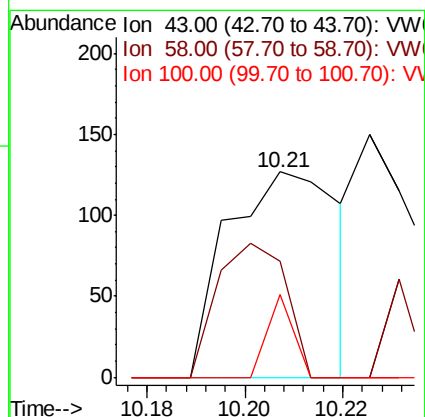
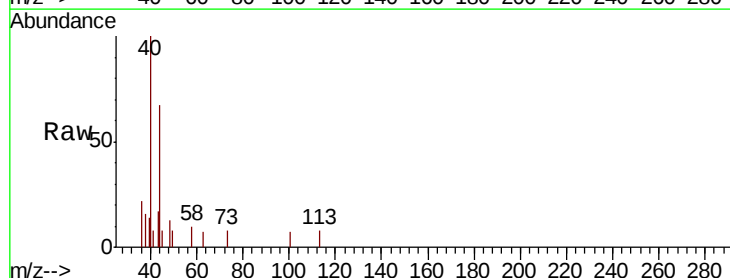
Tgt Ion: 43 Resp: 202

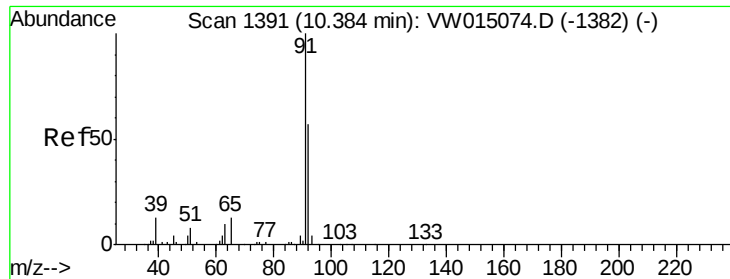
Ion Ratio Lower Upper

43 100

58 40.1 27.6 41.4

100 0.0 8.6 13.0#





#44

Toluene

Concen: 0.589 ug/L

RT: 10.38 min Scan# 1390

Delta R.T. -0.01 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

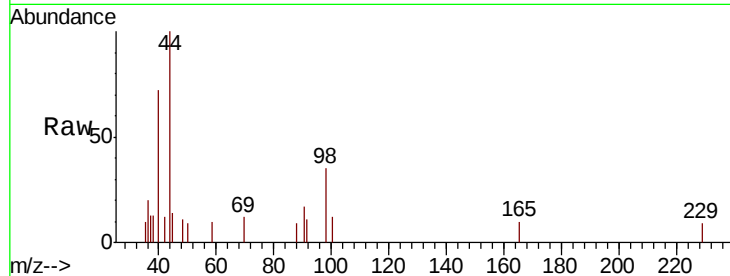
ClientSampleId :

Tot Ion: 91 Resp: 150

Ion Ratio Lower Upper

91 100

92 0.0 40.5 75.1#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.38

150

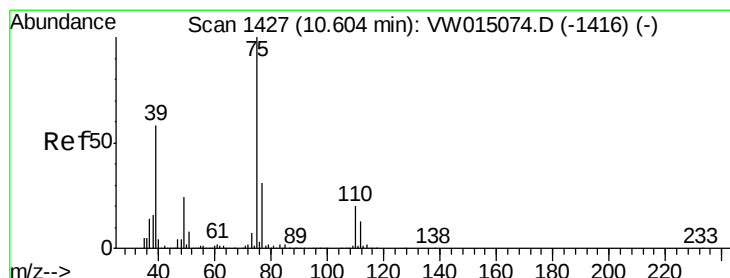
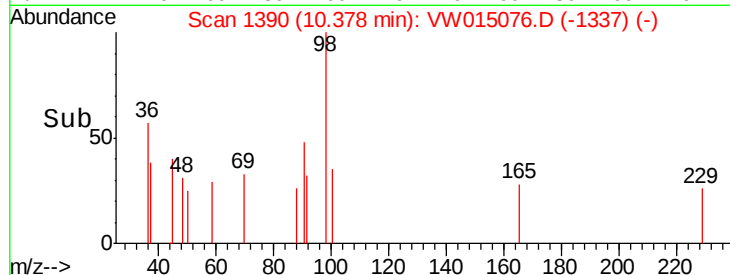
100

50

0

10.36 10.38 10.40

Time-->



#45

trans-1,3-Dichloropropene

Concen: 0.678 ug/L

RT: 10.57 min Scan# 1421

Delta R.T. -0.04 min

Lab File: VW015076.D

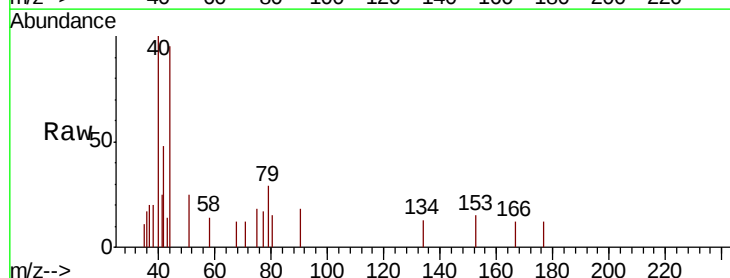
Acq: 28 Feb 2020 12:58

Tgt Ion: 75 Resp: 52

Ion Ratio Lower Upper

75 100

77 95.1 21.6 40.2#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.57

80

60

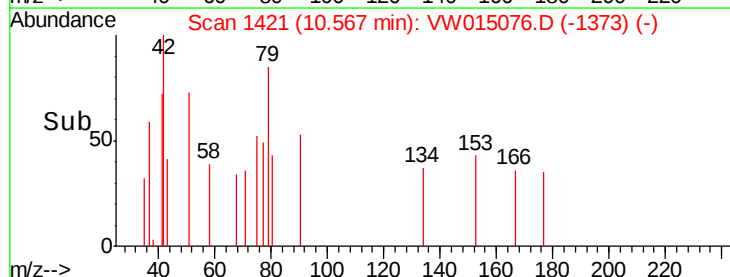
40

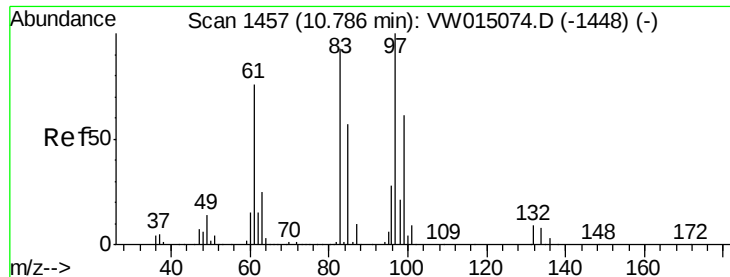
20

0

10.55 10.56 10.57

Time-->

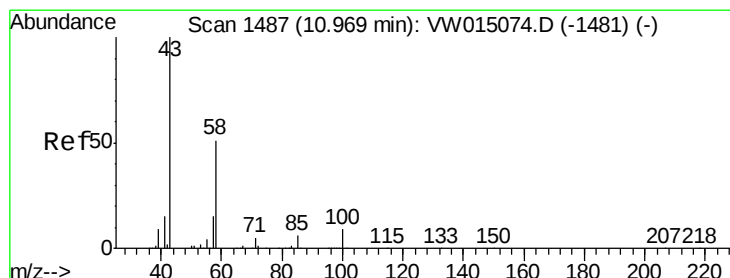
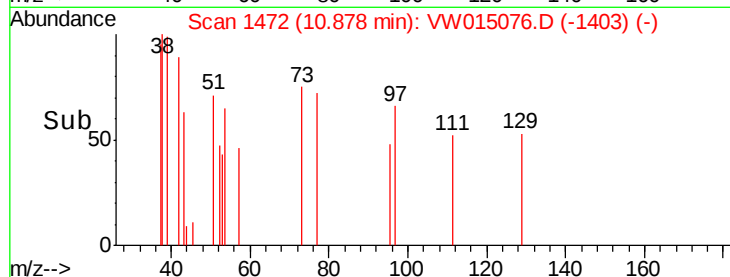
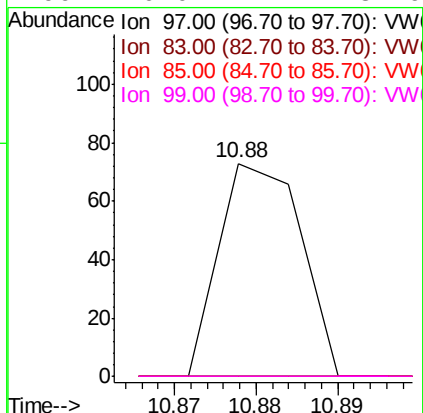
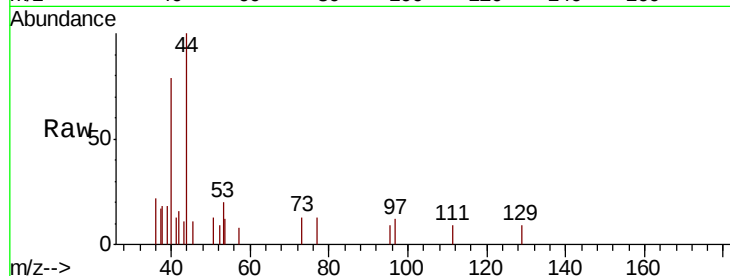




#46
 1,1,2-Trichloroethane
 Concen: 1.245 ug/L
 RT: 10.88 min Scan# 1472
 Delta R.T. 0.09 min
 Lab File: VW015076.D
 Acq: 28 Feb 2020 12:58

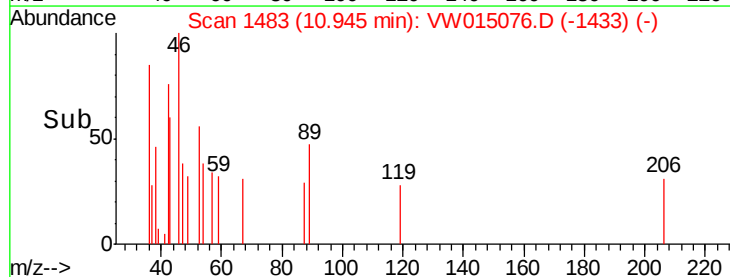
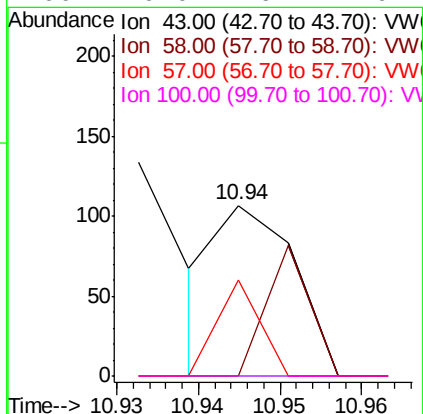
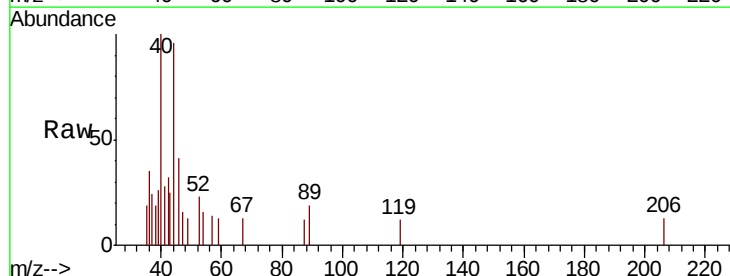
Instrument :
 MSVOA_W
 ClientSampleId :

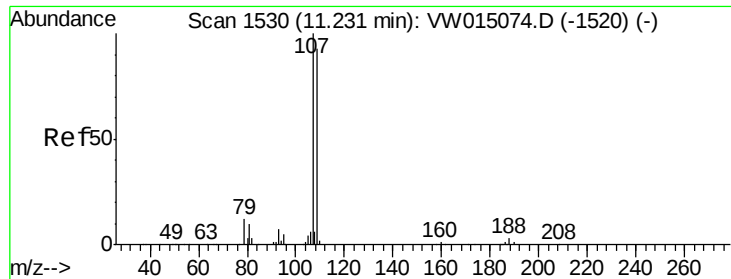
Tot Ion:	97	Resp:	51
Ion	Ratio	Lower	Upper
97	100		
83	0.0	64.4	119.6#
85	0.0	40.9	75.9#
99	0.0	44.1	81.9#



#49
 2-Hexanone
 Concen: 2.337 ug/L
 RT: 10.94 min Scan# 1483
 Delta R.T. -0.02 min
 Lab File: VW015076.D
 Acq: 28 Feb 2020 12:58

Tgt Ion:	43	Resp:	69
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.9	58.3#
57	0.0	13.4	20.2#
100	0.0	6.7	10.1#





#51

1,2-Dibromoethane

Concen: 1.596 ug/L

RT: 11.07 min Scan# 1503

Delta R.T. -0.16 min

Lab File: VW015076.D

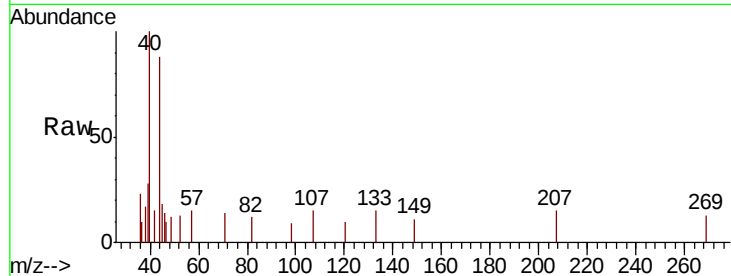
Acq: 28 Feb 2020 12:58

Instrument :

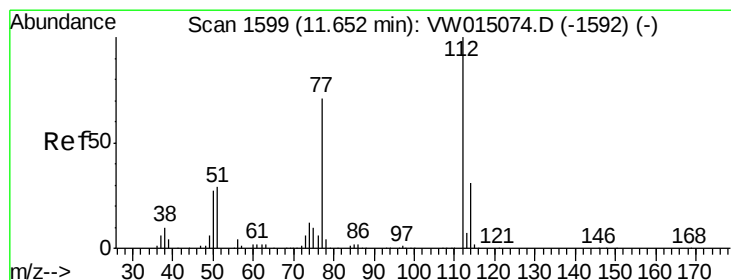
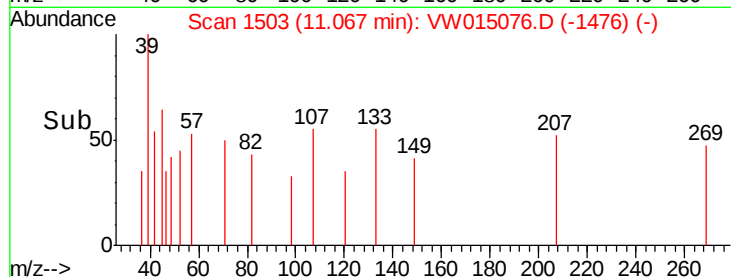
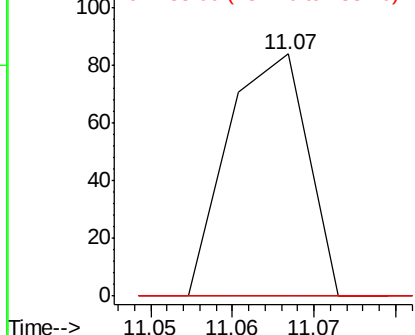
MSVOA_W

ClientSampleId :

Tot Ion:	107	Resp:	57
Ion	Ratio	Lower	Upper
107	100		
109	0.0	61.9	114.9#
188	0.0	2.5	3.7#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 0.327 ug/L

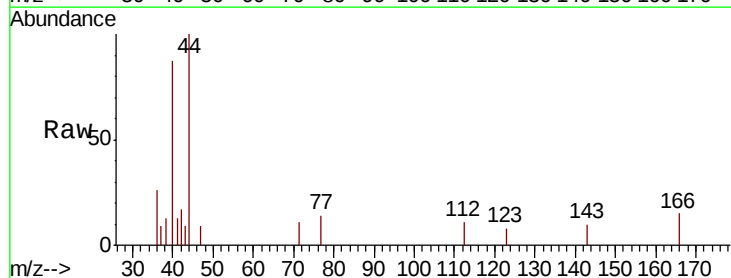
RT: 11.77 min Scan# 1618

Delta R.T. 0.12 min

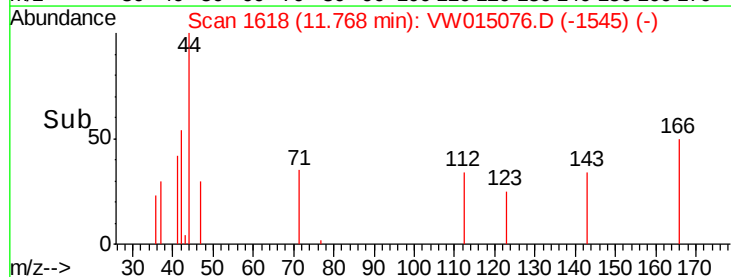
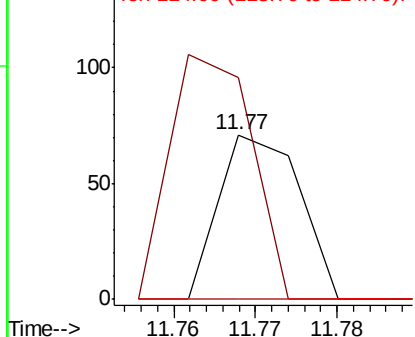
Lab File: VW015076.D

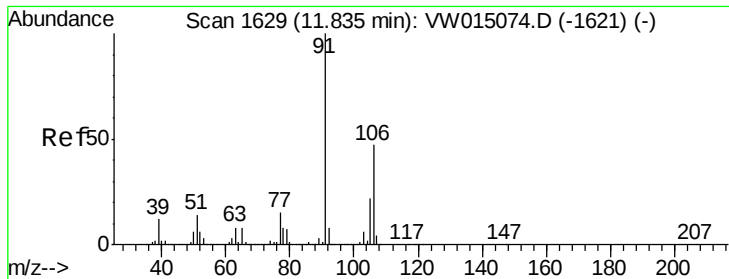
Acq: 28 Feb 2020 12:58

Tgt Ion:	112	Resp:	49
Ion	Ratio	Lower	Upper
112	100		
77	135.2	57.0	85.6#
114	0.0	22.5	41.9#



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#54

m,p-Xylene

Concen: 0.432 ug/L

RT: 12.01 min Scan# 1657

Delta R.T. 0.17 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

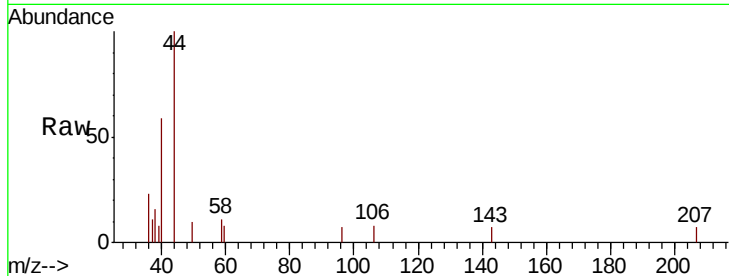
ClientSampleId :

Tot Ion:106 Resp: 42

Ion Ratio Lower Upper

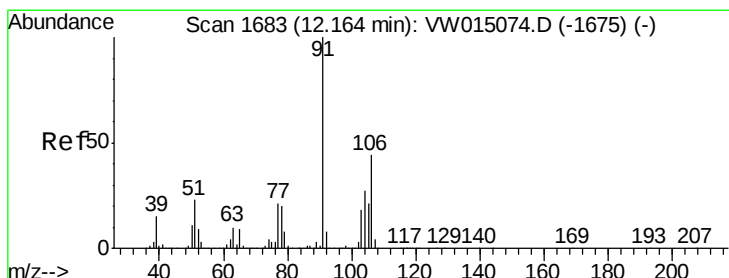
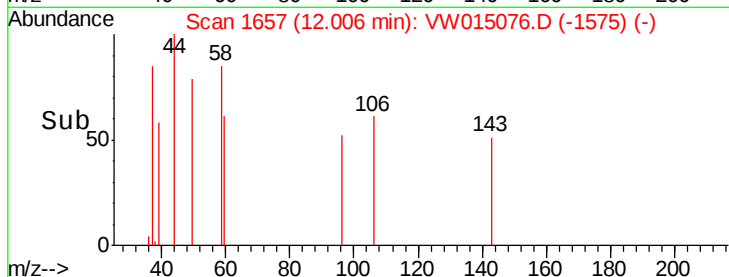
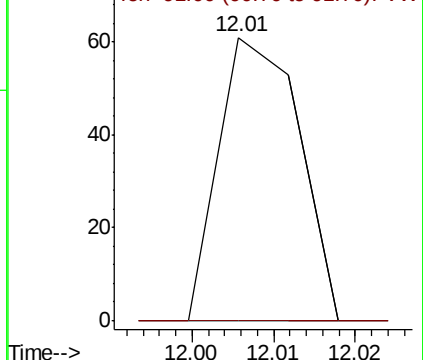
106 100

91 0.0 151.4 281.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 0.463 ug/L

RT: 12.01 min Scan# 1657

Delta R.T. -0.16 min

Lab File: VW015076.D

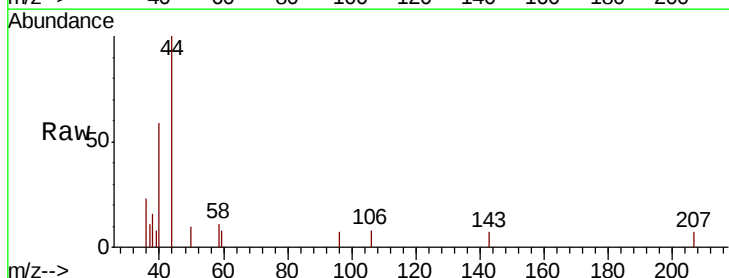
Acq: 28 Feb 2020 12:58

Tgt Ion:106 Resp: 42

Ion Ratio Lower Upper

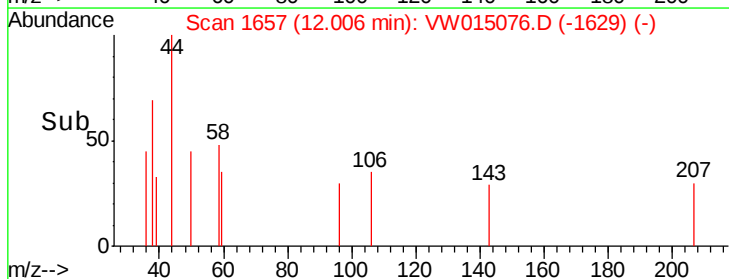
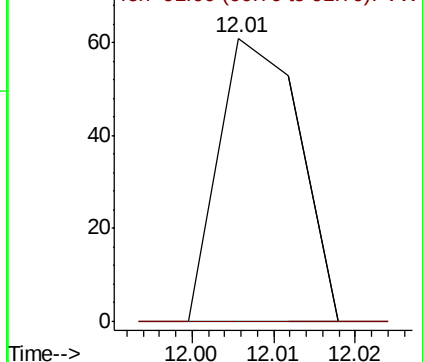
106 100

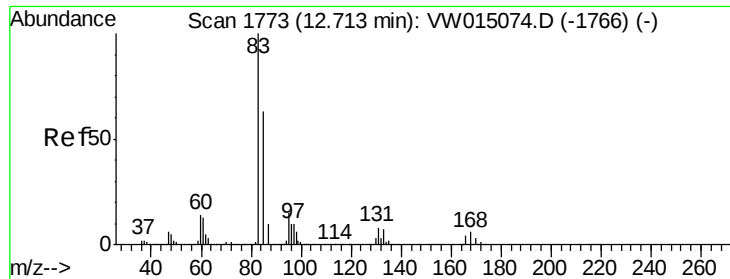
91 0.0 162.5 301.9#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 0.929 ug/L

RT: 12.76 min Scan# 1781

Delta R.T. 0.05 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

ClientSampled :

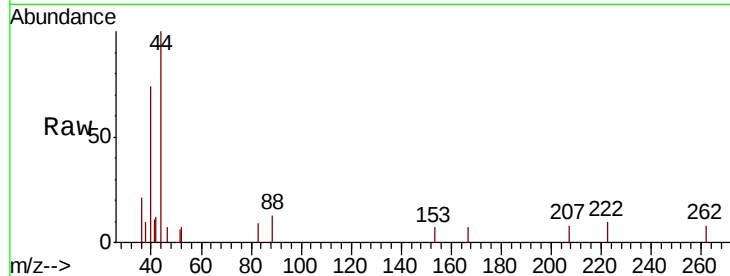
Tot Ion: 83 Resp: 48

Ion Ratio Lower Upper

83 100

85 0.0 44.2 82.0#

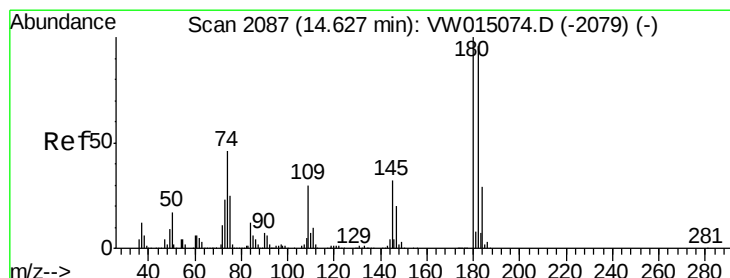
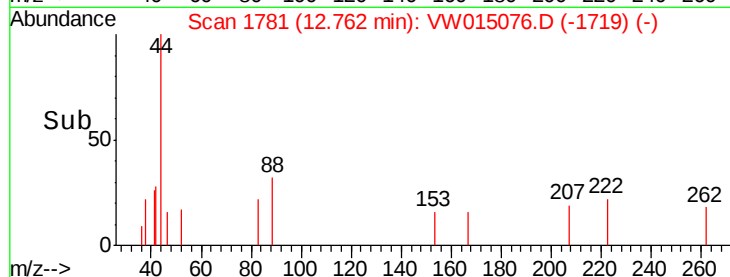
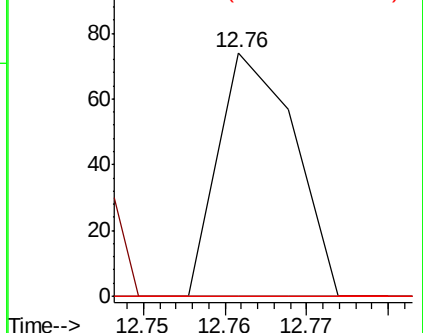
131 0.0 6.3 9.5#



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V



#67

1,3,5-Trichlorobenzene

Concen: 3.887 ug/L

RT: 14.86 min Scan# 2126

Delta R.T. 0.24 min

Lab File: VW015076.D

Acq: 28 Feb 2020 12:58

Tgt Ion: 180 Resp: 42

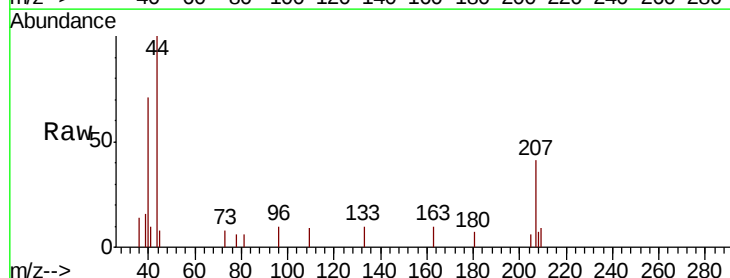
Ion Ratio Lower Upper

180 100

182 0.0 75.4 113.0#

184 0.0 23.9 35.9#

145 0.0 25.4 38.2#

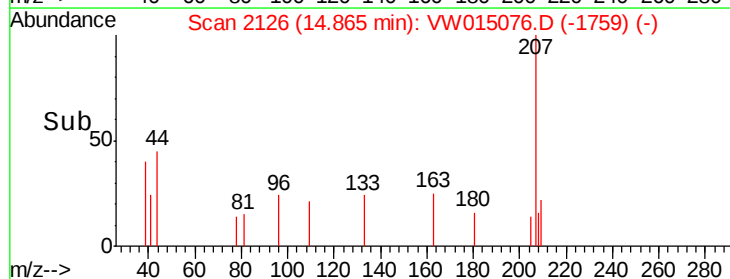
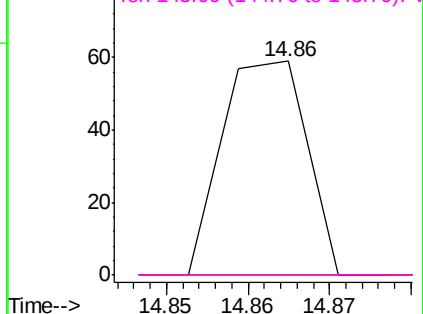


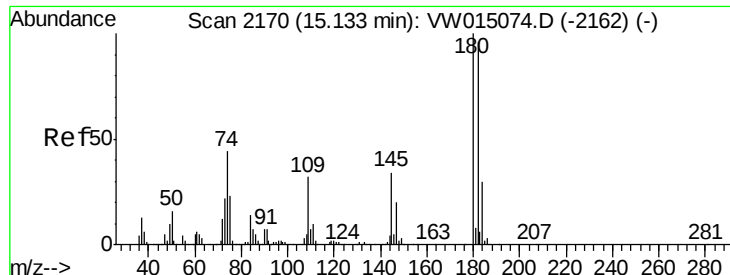
Abundance Ion 180.00 (179.70 to 180.70): V

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: 5.318 ug/L

RT: 14.86 min Scan# 2126

Delta R.T. -0.27 min

Lab File: VW015076.D

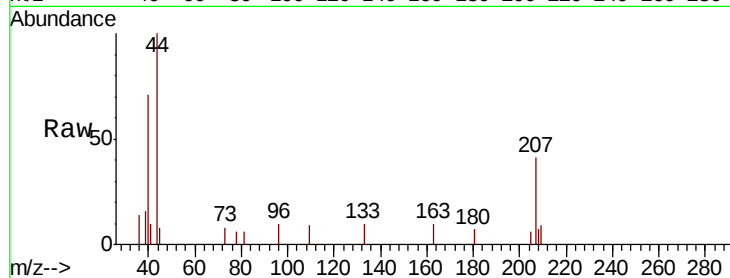
Acq: 28 Feb 2020 12:58

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:	180	Resp:	42
Ion Ratio	Lower	Upper	
180	100		
182	0.0	75.7	113.5#
145	0.0	25.9	38.9#



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

