

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111920\
 Data File : VW017385.D
 Acq On : 19 Nov 2020 21:36
 Operator : SY/VA
 Sample : L4751-23
 Misc : 5.87G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 C0AY6

Quant Time: Nov 20 04:38:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111820S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 20 04:37:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	305	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	617	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	535	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	0.00	65	0	0.00	ug/L	
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.00%#
7) Chloroethane-d5	3.07	69	52	14.50	ug/L	0.18
Spiked Amount	25.000	Range	30 - 150	Recovery	=	58.00%
10) 1,1-Dichloroethene-d2	0.00	63	0	0.00	ug/L	
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.00%#
20) 2-Butanone-d5	7.12	46	277	373.54	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	747.08%#
24) Chloroform-d	0.00	84	0	0.00	ug/L	
Spiked Amount	25.000	Range	40 - 150	Recovery	=	0.00%#
26) 1,2-Dichloroethane-d4	8.30	65	74	19.11	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	76.44%
29) Benzene-d6	8.28	84	102	2.93	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	11.72%#
33) 1,2-Dichloropropane-d6	0.00	67	0	0.00	ug/L	
Spiked Amount	25.000	Range	70 - 120	Recovery	=	0.00%#
37) Toluene-d8	10.32	98	641	19.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	78.32%
38) trans-1,3-Dichloropropene-	0.00	79	0	0.00	ug/L	
Spiked Amount	25.000	Range	30 - 135	Recovery	=	0.00%#
39) 2-Hexanone-d5	0.00	63	0	0.00	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.00%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	45	6.41	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	25.64%#
61) 1,2-Dichlorobenzene-d4	13.86	152	436	22.08	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.32%

Target Compounds

					Ovalue
3) Chloromethane	2.34	50	71	23.040	ug/L # 42
8) Chloroethane	2.98	64	29	10.237	ug/L # 42
13) Acetone	4.13	43	93	171.891	ug/L 55
15) Methyl Acetate	4.92	43	77	64.983	ug/L # 45
16) Methylene chloride	4.92	84	13535	2594.398	ug/L 97
21) 2-Butanone	7.14	43	780	940.432	ug/L 81
25) Chloroform	7.68	83	314	42.722	ug/L # 75
32) Carbon tetrachloride	8.25	117	710	51.517	ug/L # 8
34) Benzene	8.52	78	52	1.492	ug/L 100
36) Methylcyclohexane	9.64	83	42	2.666	ug/L # 20
41) Bromodichloromethane	9.64	83	42	3.793	ug/L # 26
43) 4-Methyl-2-pentanone	10.22	43	297	75.897	ug/L # 60
44) Toluene	10.40	91	160	4.138	ug/L 83
45) trans-1,3-Dichloropropene	10.70	75	472	45.527	ug/L # 43
46) 1,1,2-Trichloroethane	10.70	97	353	56.834	ug/L # 16
49) 2-Hexanone	11.07	43	111	47.129	ug/L # 34
53) Ethylbenzene	11.84	91	108	2.491	ug/L # 45

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Quant Title : VOC Analysis
QLast Update : Fri Nov 20 04:37:10 2020
Response via : Initial Calibration

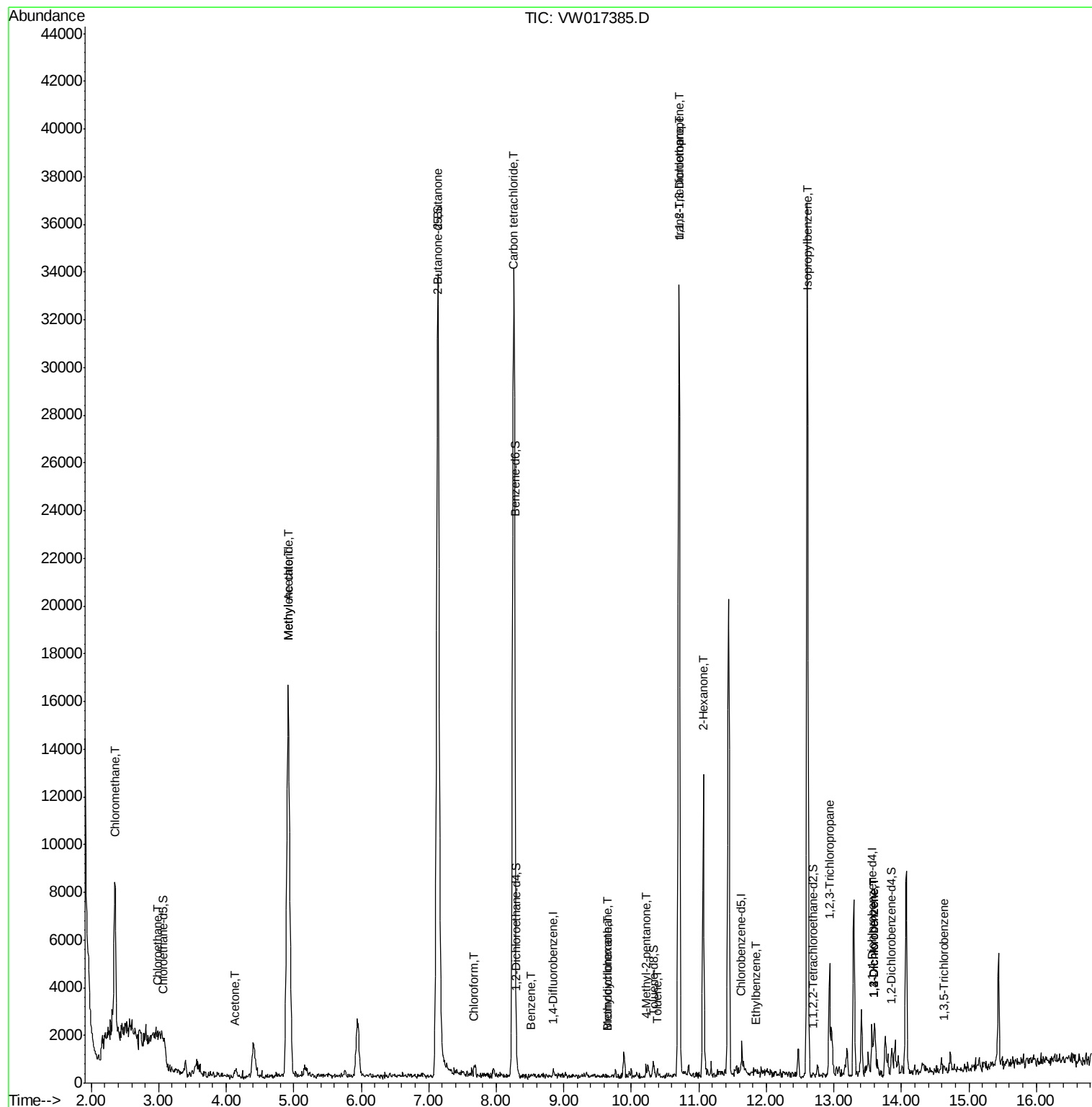
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Isopropylbenzene	12.61	105	86	1.981	ug/L #	1
59) 1,2,3-Trichloropropane	12.94	75	396	81.508	ug/L #	41
63) 1,3-Dichlorobenzene	13.58	146	147	4.216	ug/L #	29
64) 1,4-Dichlorobenzene	13.58	146	147	4.273	ug/L #	25
65) 1,2-Dichlorobenzene	13.58	146	147	4.851	ug/L #	26
67) 1,3,5-Trichlorobenzene	14.63	180	113	4.455	ug/L #	18

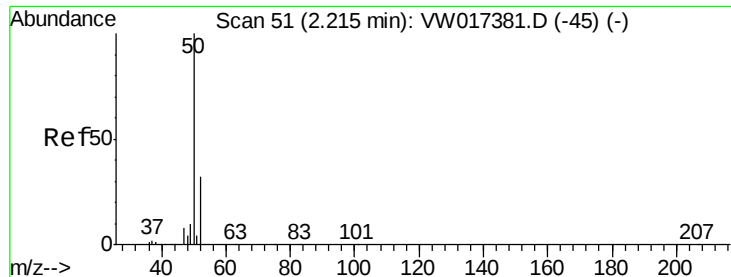
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 23.040 ug/L

RT: 2.34 min Scan# 72

Delta R.T. 0.13 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampled :

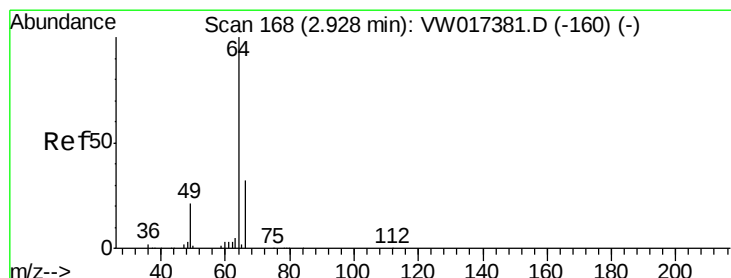
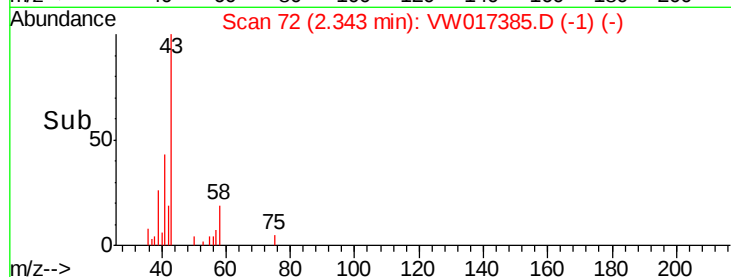
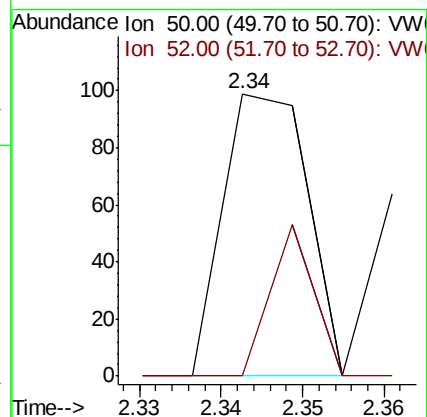
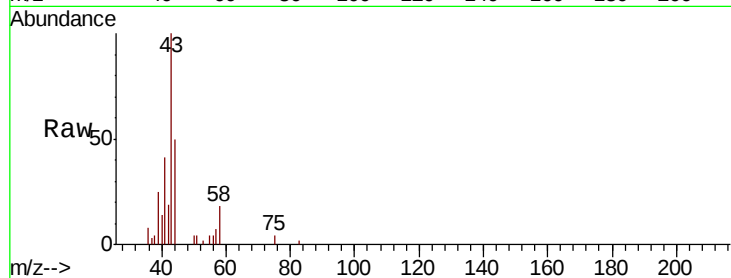
C0AY6

Tot Ion: 50 Resp: 71

Ion Ratio Lower Upper

50 100

52 0.0 23.2 43.0#



#8

Chloroethane

Concen: 10.237 ug/L

RT: 2.98 min Scan# 177

Delta R.T. 0.05 min

Lab File: VW017385.D

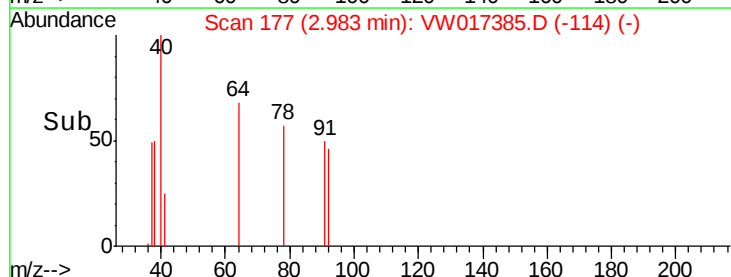
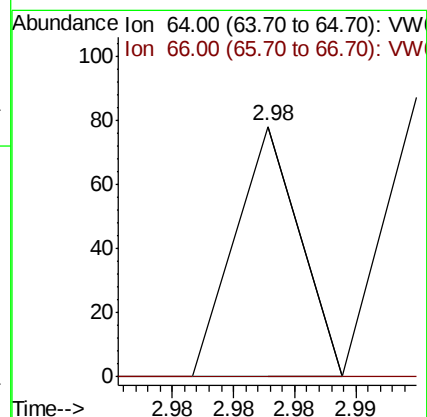
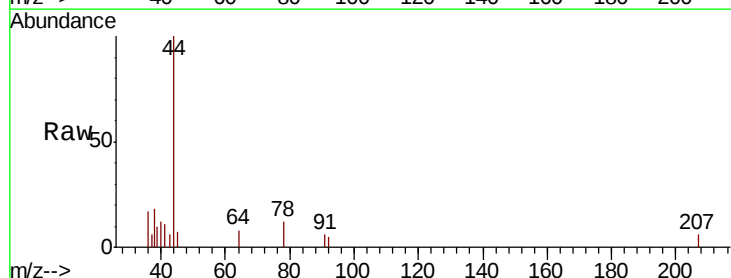
Acq: 19 Nov 2020 21:36

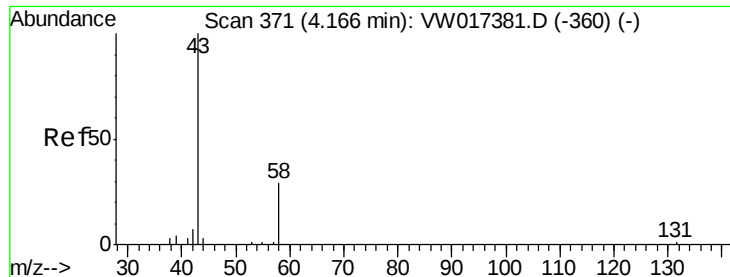
Tgt Ion: 64 Resp: 29

Ion Ratio Lower Upper

64 100

66 0.0 23.2 43.0#





#13

Acetone

Concen: 171.891 ug/L

RT: 4.13 min Scan# 366

Delta R.T. -0.03 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampleId :

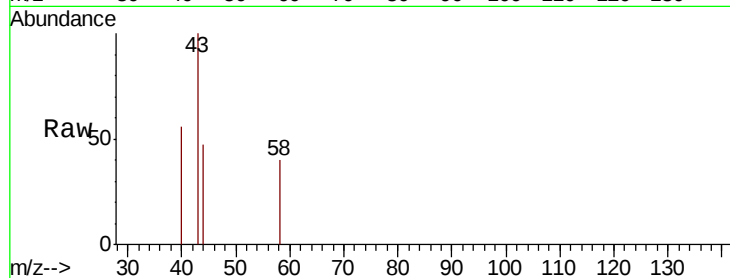
C0AY6

Tot Ion: 43 Resp: 93

Ion Ratio Lower Upper

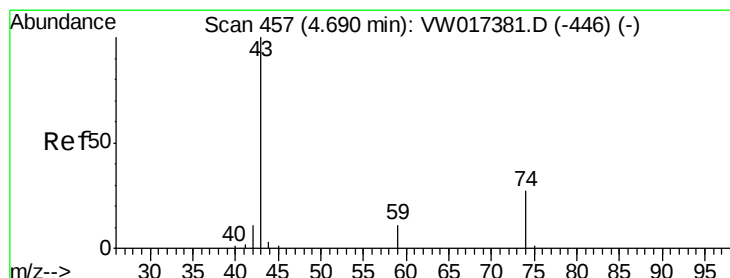
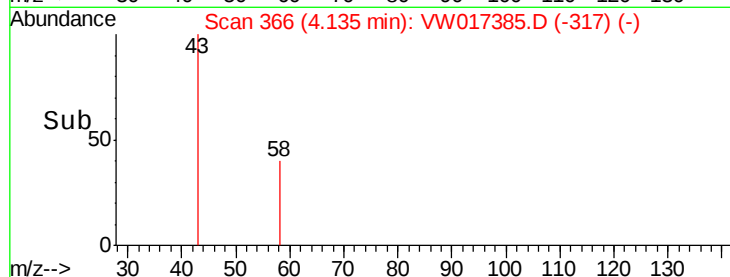
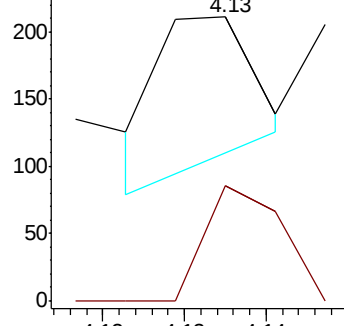
43 100

58 59.1 0.0 67.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#15

Methyl Acetate

Concen: 64.983 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.23 min

Lab File: VW017385.D

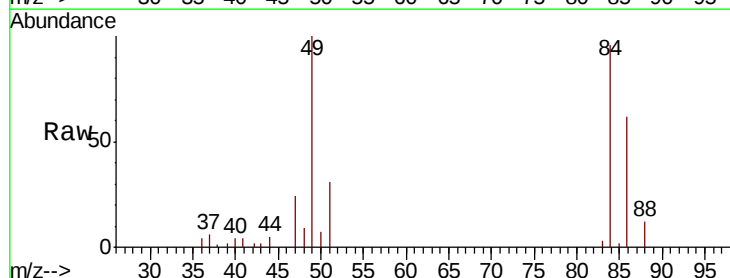
Acq: 19 Nov 2020 21:36

Tgt Ion: 43 Resp: 77

Ion Ratio Lower Upper

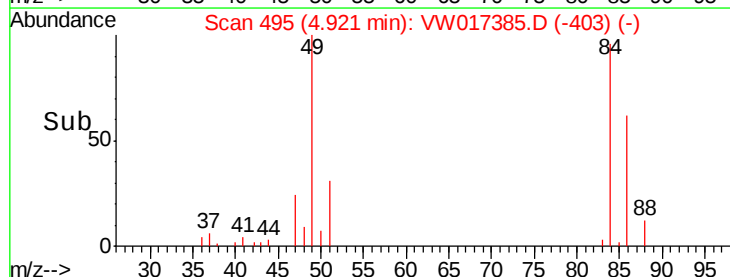
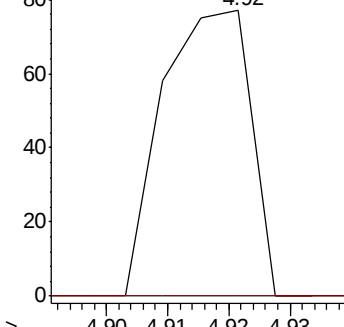
43 100

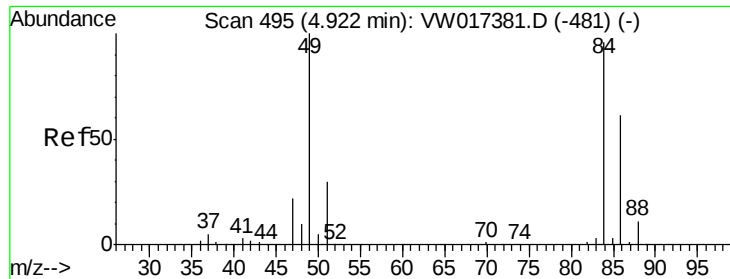
74 0.0 23.7 35.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

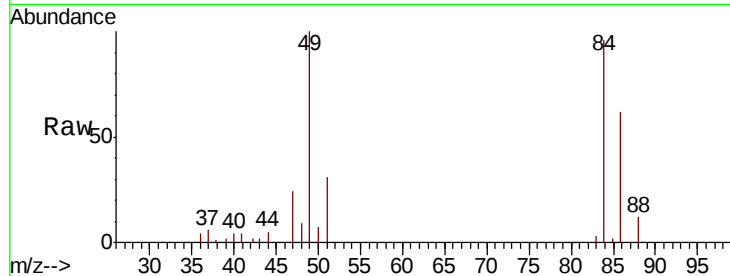




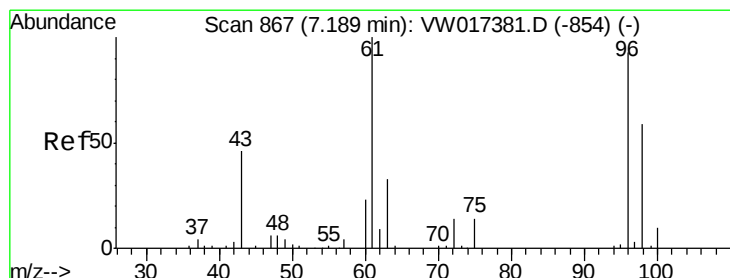
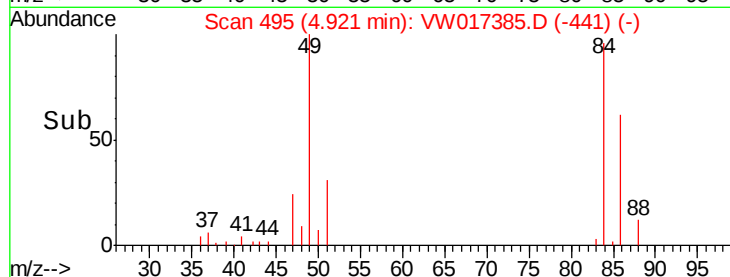
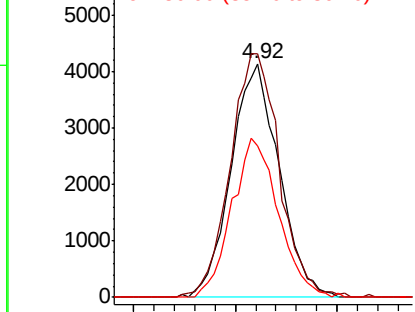
#16
Methvlene chloride
Concen: 2594.398 ug/L
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW017385.D
Acq: 19 Nov 2020 21:36

Instrument :
MSVOA_W
ClientSampleId :
C0AY6

Tot Ion: 84 Resp: 13535
Ion Ratio Lower Upper
84 100
49 104.1 71.5 132.9
86 64.5 42.8 79.4

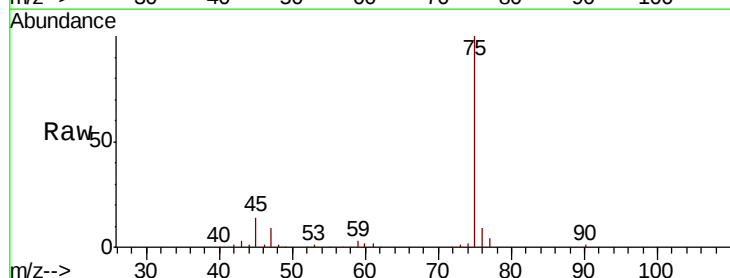


Abundance Ion 84.00 (83.70 to 84.70): VW
Ion 49.00 (48.70 to 49.70): VW
Ion 86.00 (85.70 to 86.70): VW

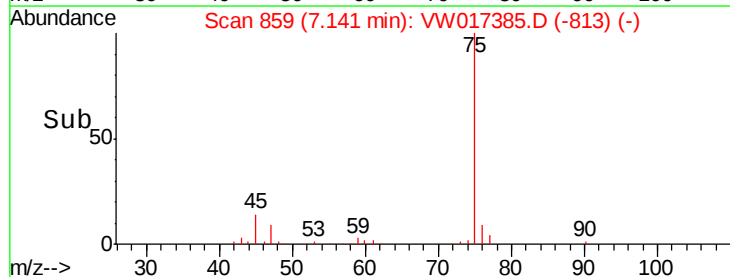
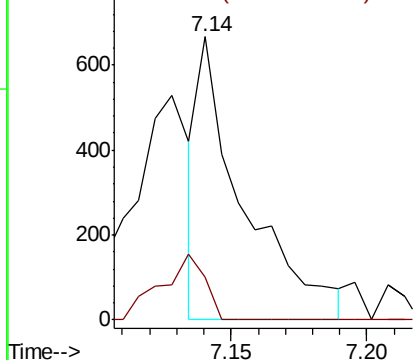


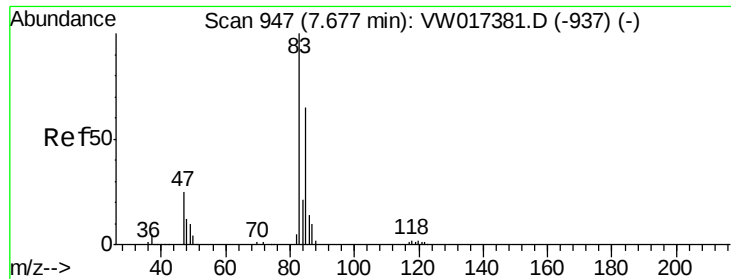
#21
2-Butanone
Concen: 940.432 ug/L
RT: 7.14 min Scan# 859
Delta R.T. -0.05 min
Lab File: VW017385.D
Acq: 19 Nov 2020 21:36

Tgt Ion: 43 Resp: 780
Ion Ratio Lower Upper
43 100
72 22.2 16.4 49.1



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





#25

Chloroform

Concen: 42.722 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampled :

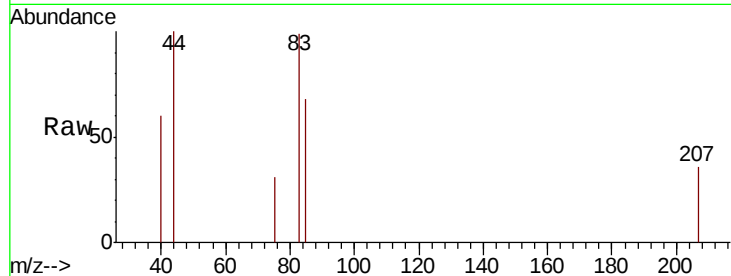
C0AY6

Tot Ion: 83 Resp: 314

Ion Ratio Lower Upper

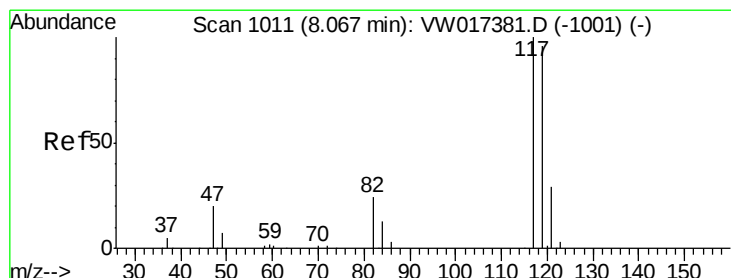
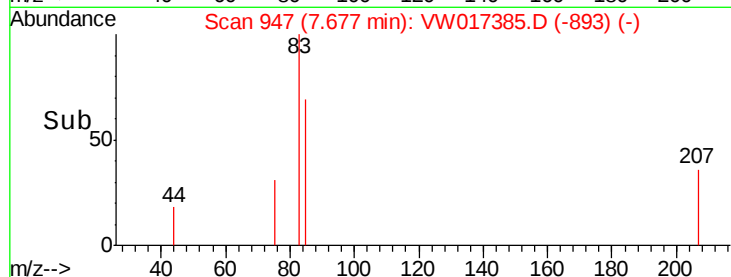
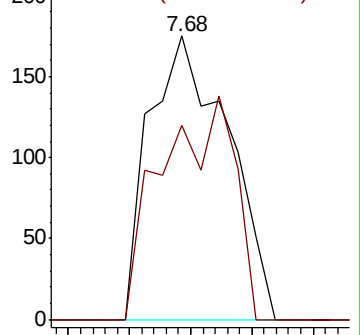
83 100

85 45.9 46.1 85.5#



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#32

Carbon tetrachloride

Concen: 51.517 ug/L

RT: 8.25 min Scan# 1041

Delta R.T. 0.18 min

Lab File: VW017385.D

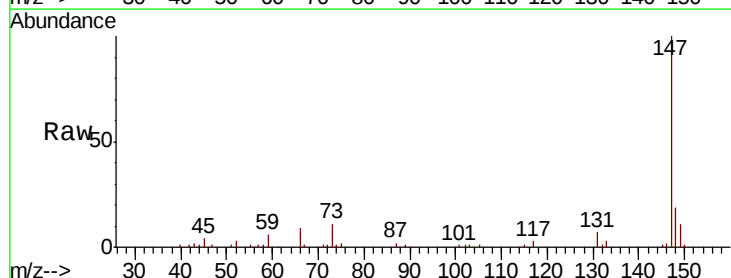
Acq: 19 Nov 2020 21:36

Tgt Ion: 117 Resp: 710

Ion Ratio Lower Upper

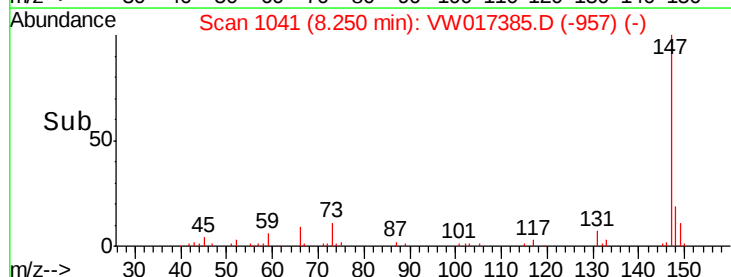
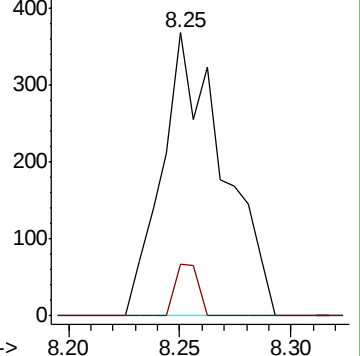
117 100

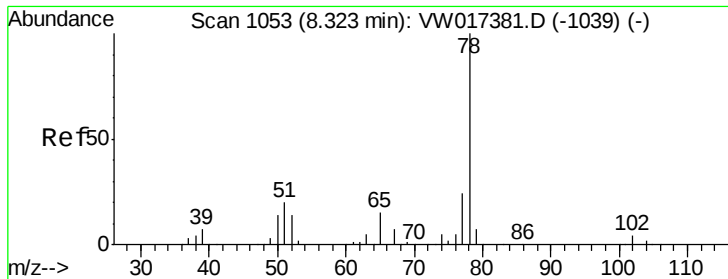
119 6.9 77.8 116.6#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 1.492 ug/L

RT: 8.52 min Scan# 1085

Delta R.T. 0.19 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

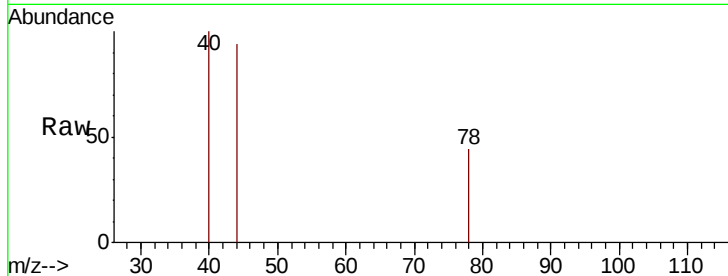
Instrument :

MSVOA_W

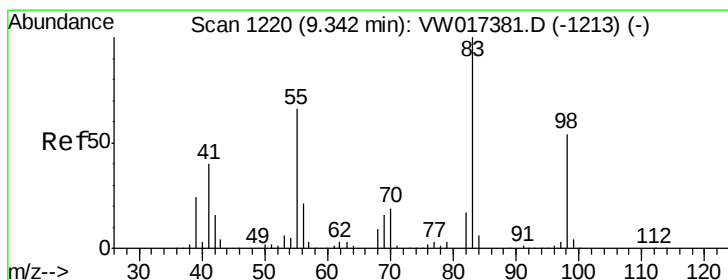
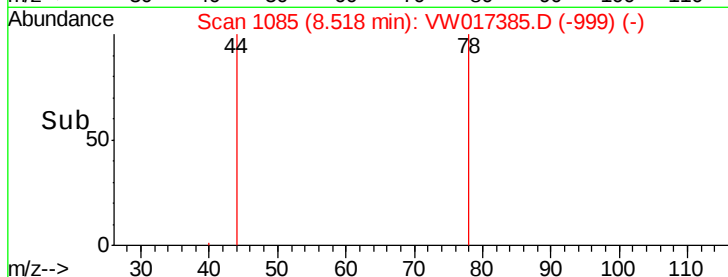
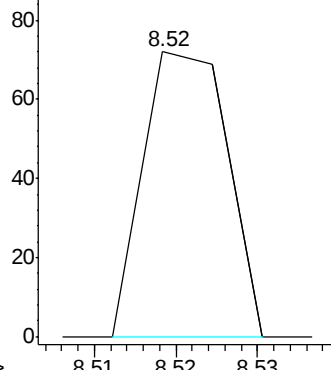
ClientSampled :

C0AY6

Tgt Ion: 78 Resp: 52



Abundance Ion 78.00 (77.70 to 78.70): VW



#36

Methylcyclohexane

Concen: 2.666 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.30 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

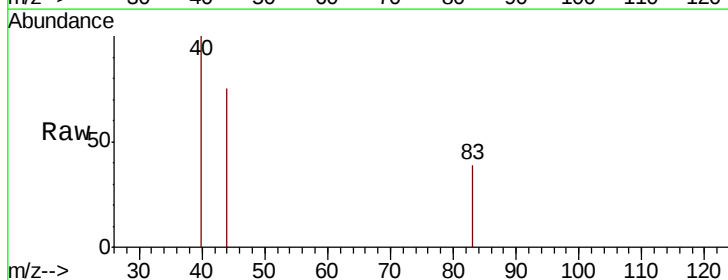
Tgt Ion: 83 Resp: 42

Ion Ratio Lower Upper

83 100

55 0.0 54.6 81.8#

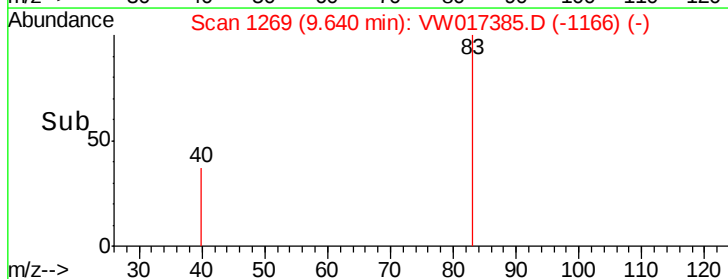
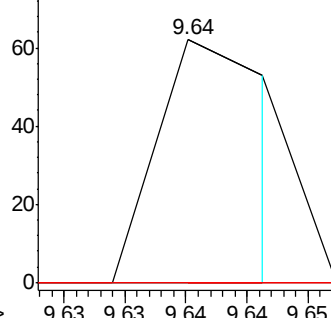
98 0.0 41.5 62.3#

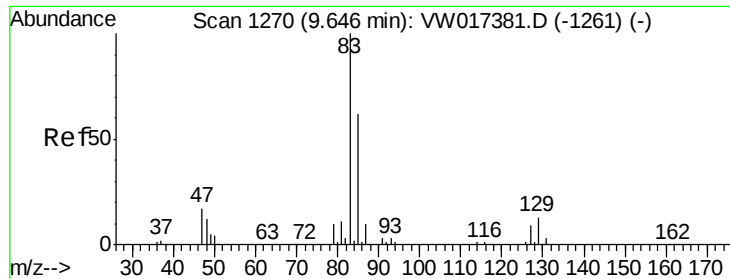


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#41

Bromodichloromethane

Concen: 3.793 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampled :

C0AY6

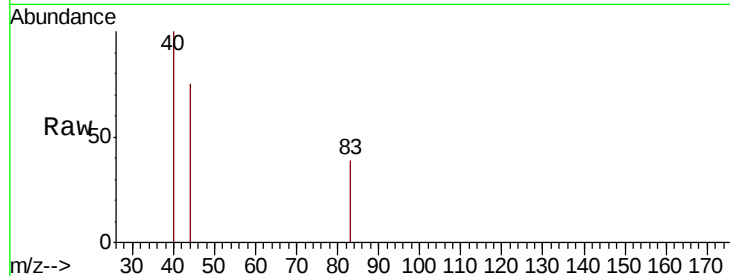
Tot Ion: 83 Resp: 42

Ion Ratio Lower Upper

83 100

85 0.0 44.1 81.9#

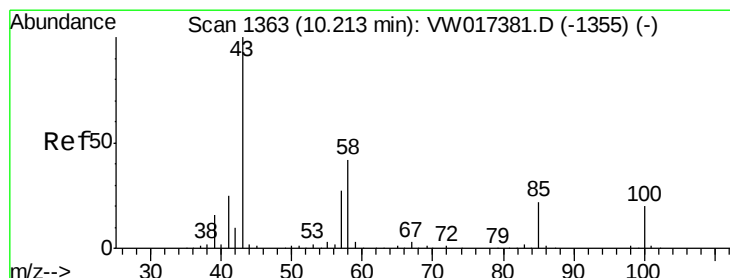
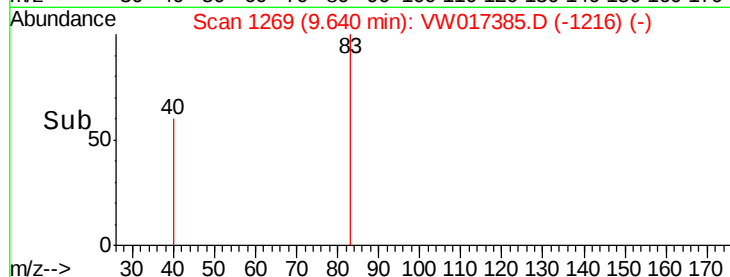
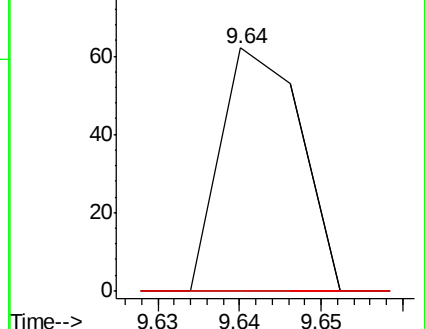
127 0.0 7.3 10.9#



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#43

4-Methyl-2-pentanone

Concen: 75.897 ug/L

RT: 10.22 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

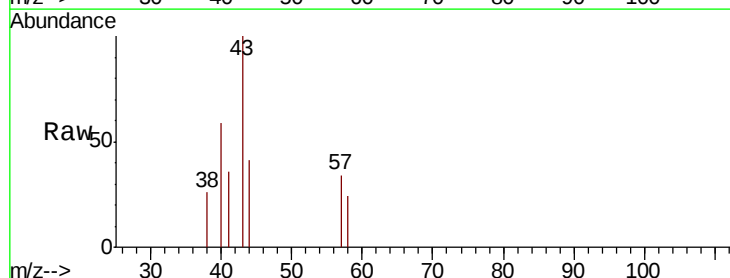
Tgt Ion: 43 Resp: 297

Ion Ratio Lower Upper

43 100

58 17.8 33.4 50.2#

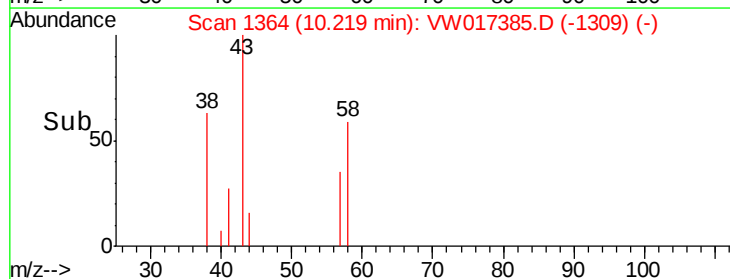
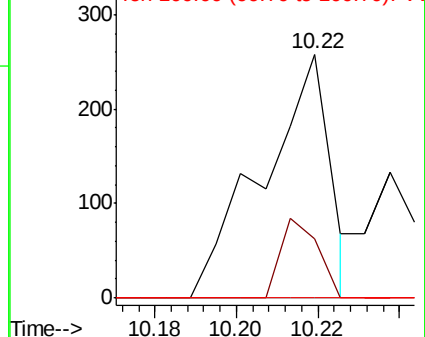
100 0.0 16.3 24.5#

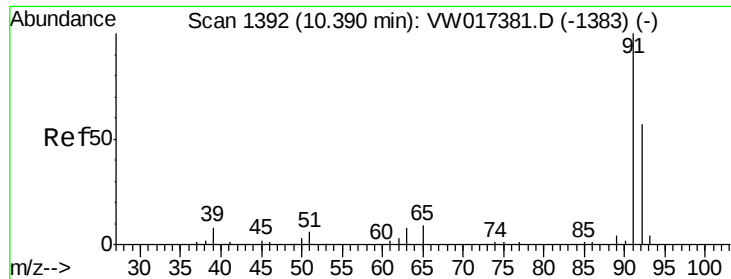


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW





#44

Toluene

Concen: 4.138 ug/L

RT: 10.40 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampleId :

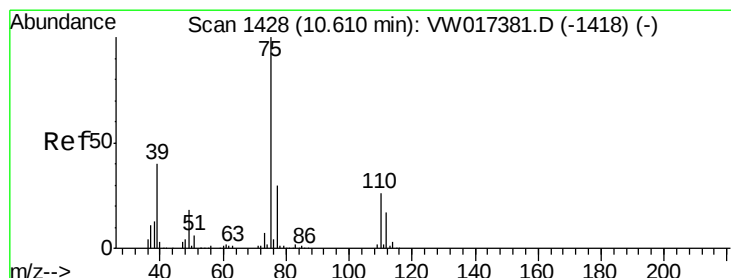
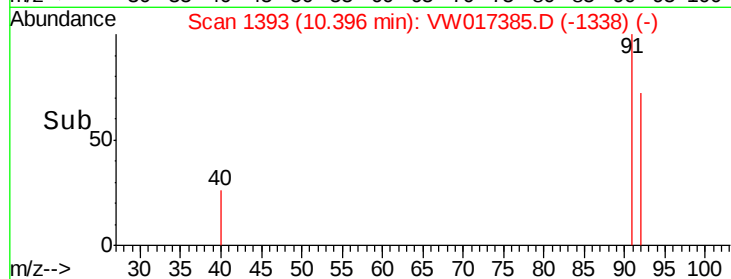
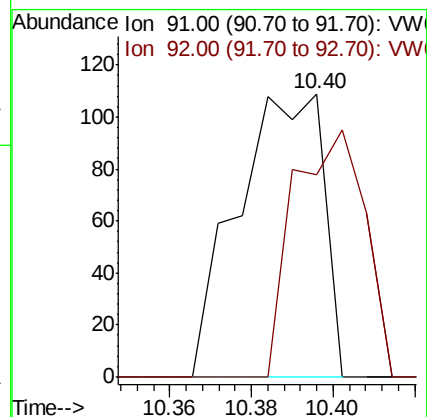
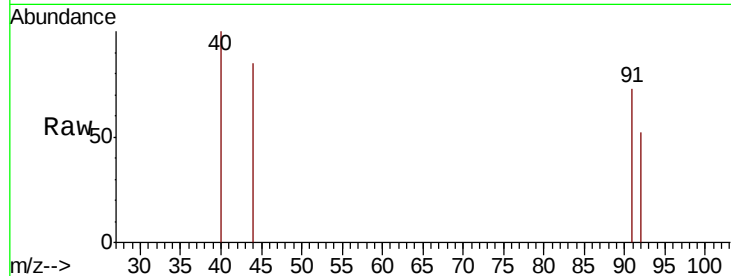
C0AY6

Tot Ion: 91 Resp: 160

Ion Ratio Lower Upper

91 100

92 71.6 41.4 76.8



#45

trans-1,3-Dichloropropene

Concen: 45.527 ug/L

RT: 10.70 min Scan# 1443

Delta R.T. 0.09 min

Lab File: VW017385.D

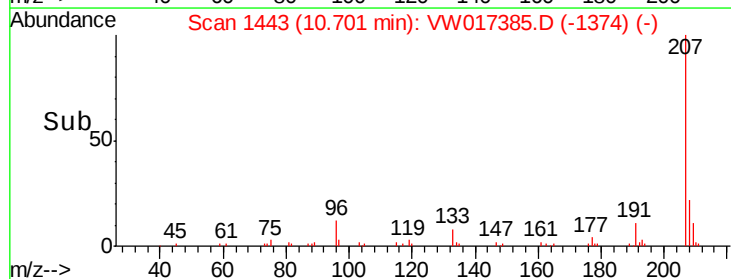
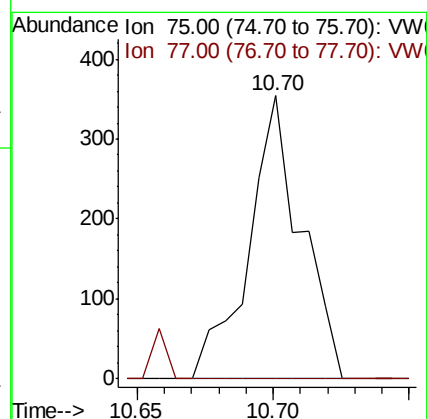
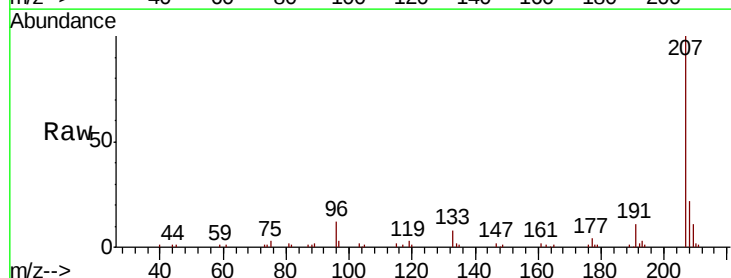
Acq: 19 Nov 2020 21:36

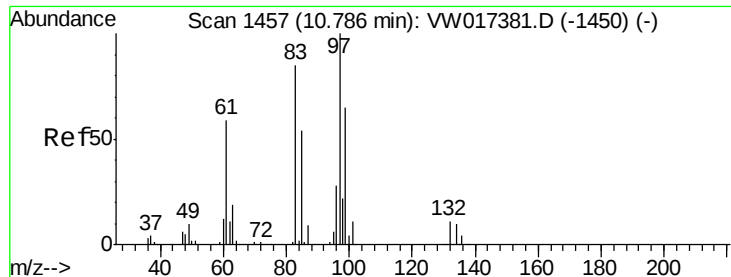
Tgt Ion: 75 Resp: 472

Ion Ratio Lower Upper

75 100

77 0.0 22.0 40.8#

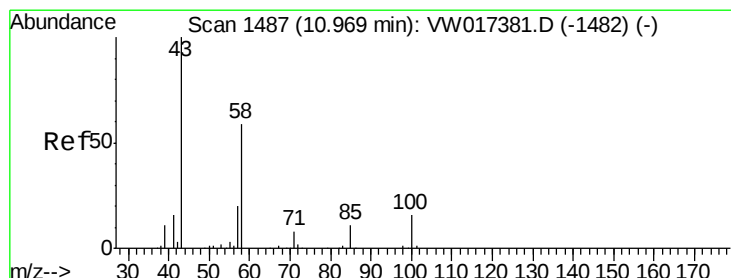
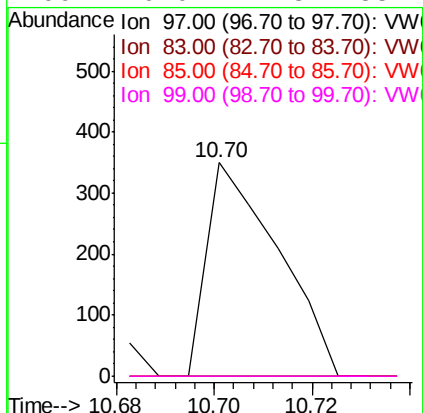
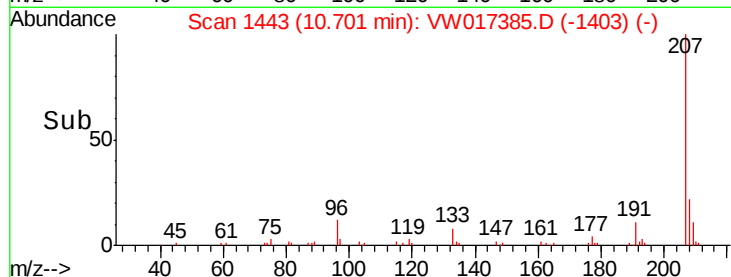
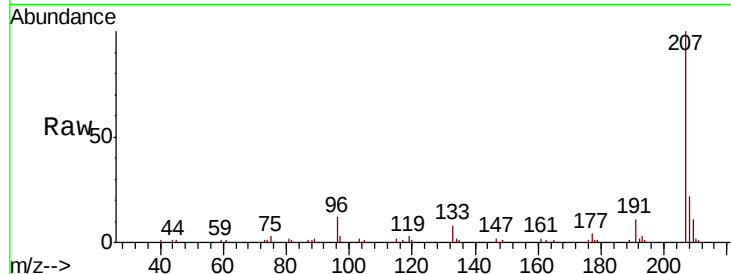




#46
 1,1,2-Trichloroethane
 Concen: 56.834 ug/L
 RT: 10.70 min Scan# 1443
 Delta R.T. -0.09 min
 Lab File: VW017385.D
 Acq: 19 Nov 2020 21:36

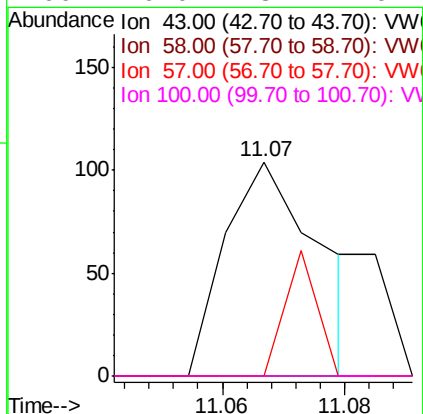
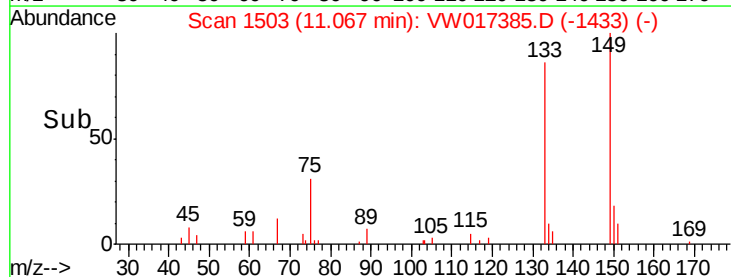
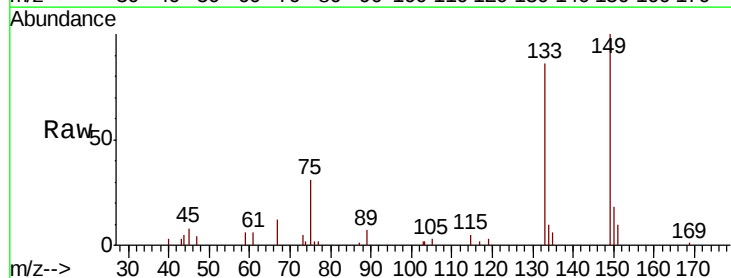
Instrument :
 MSVOA_W
 ClientSampled :
 C0AY6

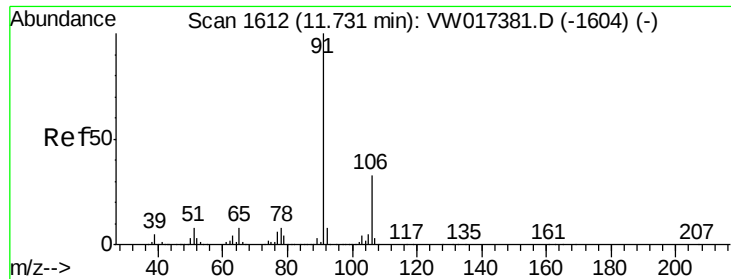
Tot Ion: 97 Resp: 353
 Ion Ratio Lower Upper
 97 100
 83 0.0 56.6 105.2#
 85 0.0 37.7 69.9#
 99 0.0 44.8 83.2#



#49
 2-Hexanone
 Concen: 47.129 ug/L
 RT: 11.07 min Scan# 1503
 Delta R.T. 0.10 min
 Lab File: VW017385.D
 Acq: 19 Nov 2020 21:36

Tgt Ion: 43 Resp: 111
 Ion Ratio Lower Upper
 43 100
 58 0.0 49.4 74.0#
 57 0.0 17.0 25.4#
 100 0.0 13.1 19.7#





#53

Ethylbenzene

Concen: 2.491 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.11 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampleId :

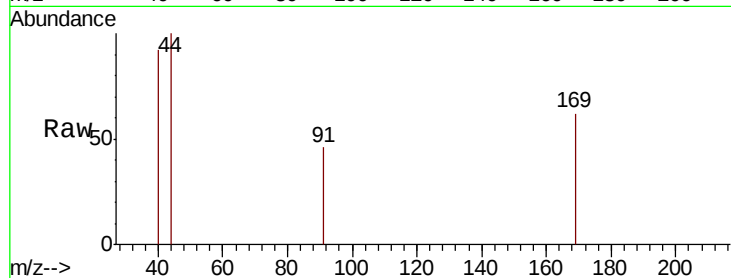
C0AY6

Tot Ion: 91 Resp: 108

Ion Ratio Lower Upper

91 100

106 0.0 20.8 38.6#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.84

80

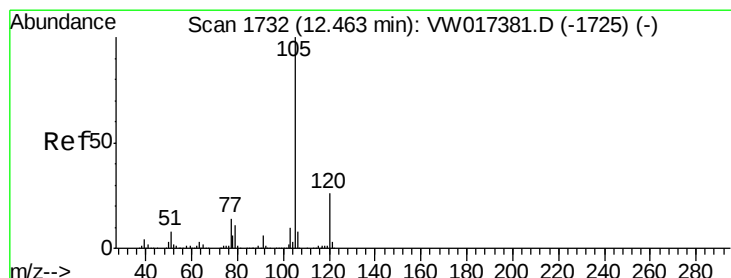
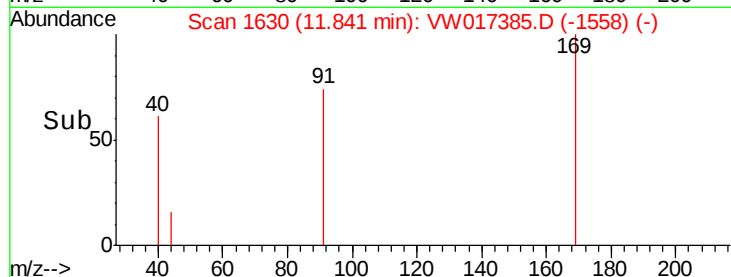
60

40

20

0

Time-->



#57

Isopropylbenzene

Concen: 1.981 ug/L

RT: 12.61 min Scan# 1756

Delta R.T. 0.15 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

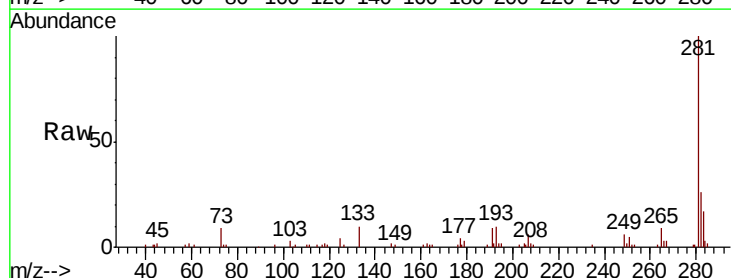
Tgt Ion: 105 Resp: 86

Ion Ratio Lower Upper

105 100

120 0.0 21.6 32.4#

77 161.6 11.8 17.6#



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

12.61

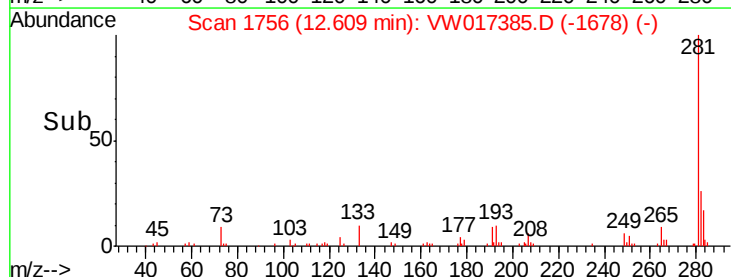
150

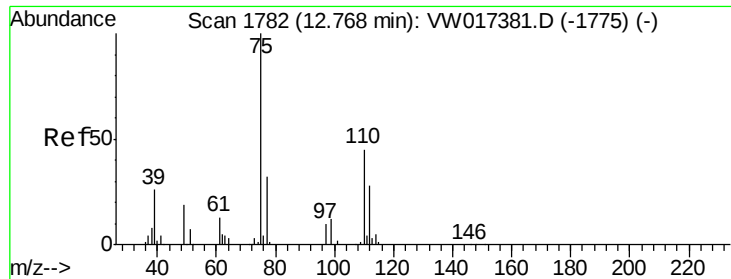
100

50

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 81.508 ug/L

RT: 12.94 min Scan# 1810

Delta R.T. 0.17 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampleId :

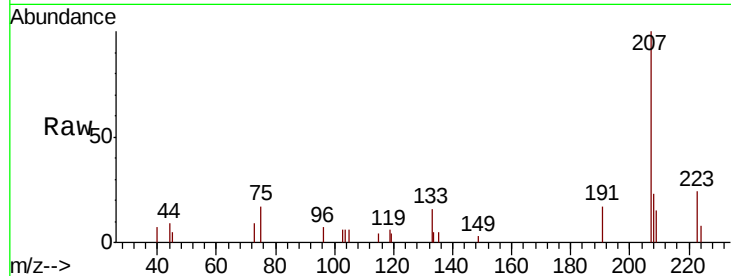
C0AY6

Tot Ion: 75 Resp: 396

Ion Ratio Lower Upper

75 100

77 0.0 26.6 40.0#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

12.94

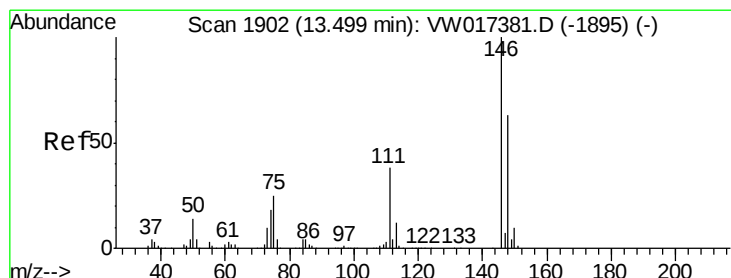
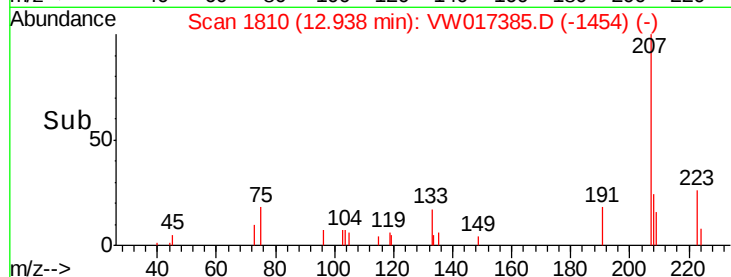
300

200

100

0

Time-->



#63

1,3-Dichlorobenzene

Concen: 4.216 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. 0.09 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

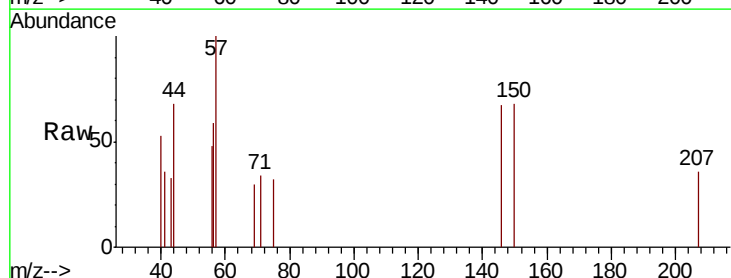
Tgt Ion: 146 Resp: 147

Ion Ratio Lower Upper

146 100

111 0.0 24.5 45.5#

148 0.0 40.4 75.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

13.58

200

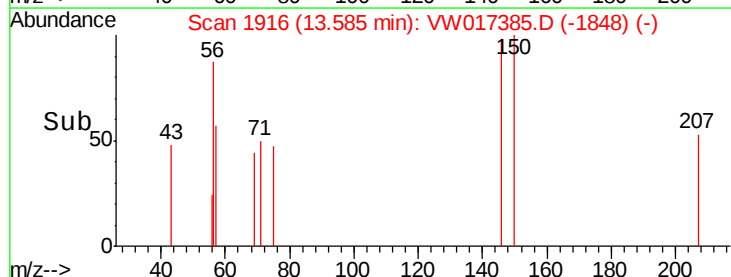
150

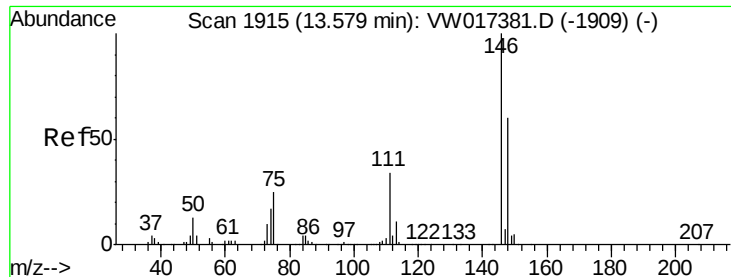
100

50

0

Time-->





#64

1,4-Dichlorobenzene

Concen: 4.273 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

Instrument :

MSVOA_W

ClientSampled :

C0AY6

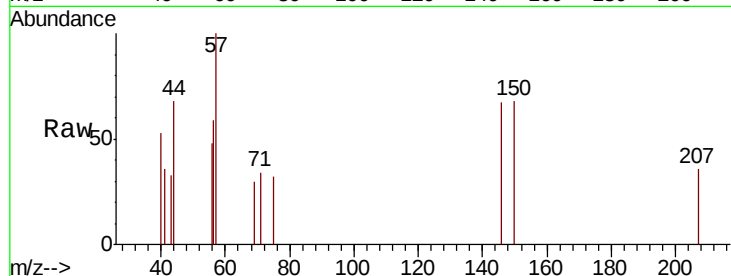
Tot Ion:146 Resp: 147

Ion Ratio Lower Upper

146 100

111 0.0 26.2 48.8#

148 0.0 45.2 84.0#



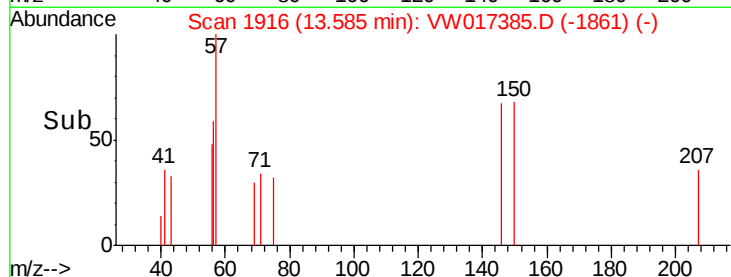
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

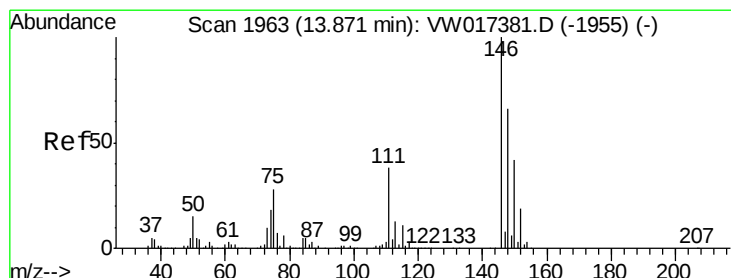
Ion 148.00 (147.70 to 148.70): V

13.58

13.60



Time-->



#65

1,2-Dichlorobenzene

Concen: 4.851 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. -0.29 min

Lab File: VW017385.D

Acq: 19 Nov 2020 21:36

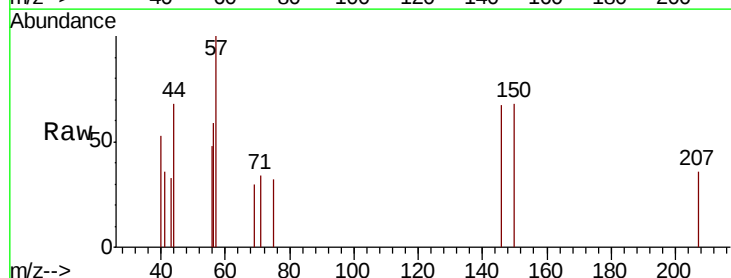
Tgt Ion:146 Resp: 147

Ion Ratio Lower Upper

146 100

111 0.0 30.8 46.2#

148 0.0 49.0 73.4#



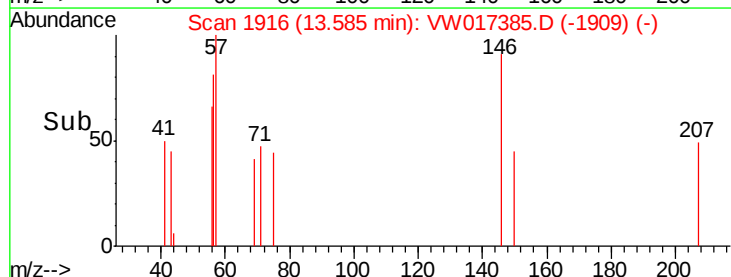
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

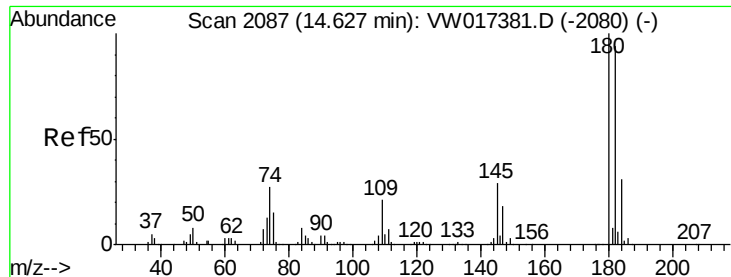
Ion 148.00 (147.70 to 148.70): V

13.58

13.60



Time-->



#67
 1,3,5-Trichlorobenzene
 Concen: 4.455 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW017385.D
 Acq: 19 Nov 2020 21:36

Instrument :
 MSVOA_W
 ClientSampleId :
 C0AY6

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.8	115.2#
184	0.0	23.9	35.9#
145	0.0	22.6	33.8#

