

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U070219\
 Data File : VU033136.D
 Acq On : 02 Jul 2019 13:21
 Operator : JC/SP
 Sample : K3608-18
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMM7

Quant Time: Jul 03 02:31:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 03 02:14:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	96716	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	99377	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	52391	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	25432	4.54	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.80%
7) Chloroethane-d5	1.68	69	22759	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	2.27	63	51826	3.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.60%
20) 2-Butanone-d5	4.18	46	96733	47.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.92%
24) Chloroform-d	4.64	84	65165	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
26) 1,2-Dichloroethane-d4	5.30	65	35737	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
32) Benzene-d6	5.33	84	109590	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.32	67	36609	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.20%
41) Toluene-d8	7.56	98	106914	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
43) trans-1,3-Dichloropropene-	7.85	79	15788	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.31	63	64027	45.52	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.04%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	31421	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	11.85	152	43511	4.61	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	34660	3.498	ug/L 99
5) Vinyl chloride	1.40	62	34432	3.669	ug/L 100
8) Chloroethane	1.69	64	73112	12.825	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	72904	10.459	ug/L 98
12) 1,1-Dichloroethene	2.28	96	14023	2.222	ug/L # 74
13) Acetone	2.32	43	245282	149.702	ug/L 99
15) Methyl Acetate	2.61	43	38571	9.929	ug/L 95
18) trans-1,2-Dichloroethene	2.97	96	18124	2.603	ug/L 91
19) 1,1-Dichloroethane	3.43	63	28202	2.017	ug/L 97
22) cis-1,2-Dichloroethene	4.22	96	30918	4.016	ug/L 100
23) Bromochloromethane	4.54	128	17855	4.981	ug/L 97
25) Chloroform	4.67	83	112224	7.259	ug/L 97
27) 1,2-Dichloroethane	5.40	62	19461	1.944	ug/L # 95
29) 1,1,1-Trichloroethane	4.90	97	24760	1.934	ug/L 99
31) Carbon tetrachloride	5.12	117	33079	2.887	ug/L 98
34) Trichloroethene	6.18	95	17232	2.157	ug/L 96
39) cis-1,3-Dichloropropene	7.26	75	54288	4.777	ug/L 96

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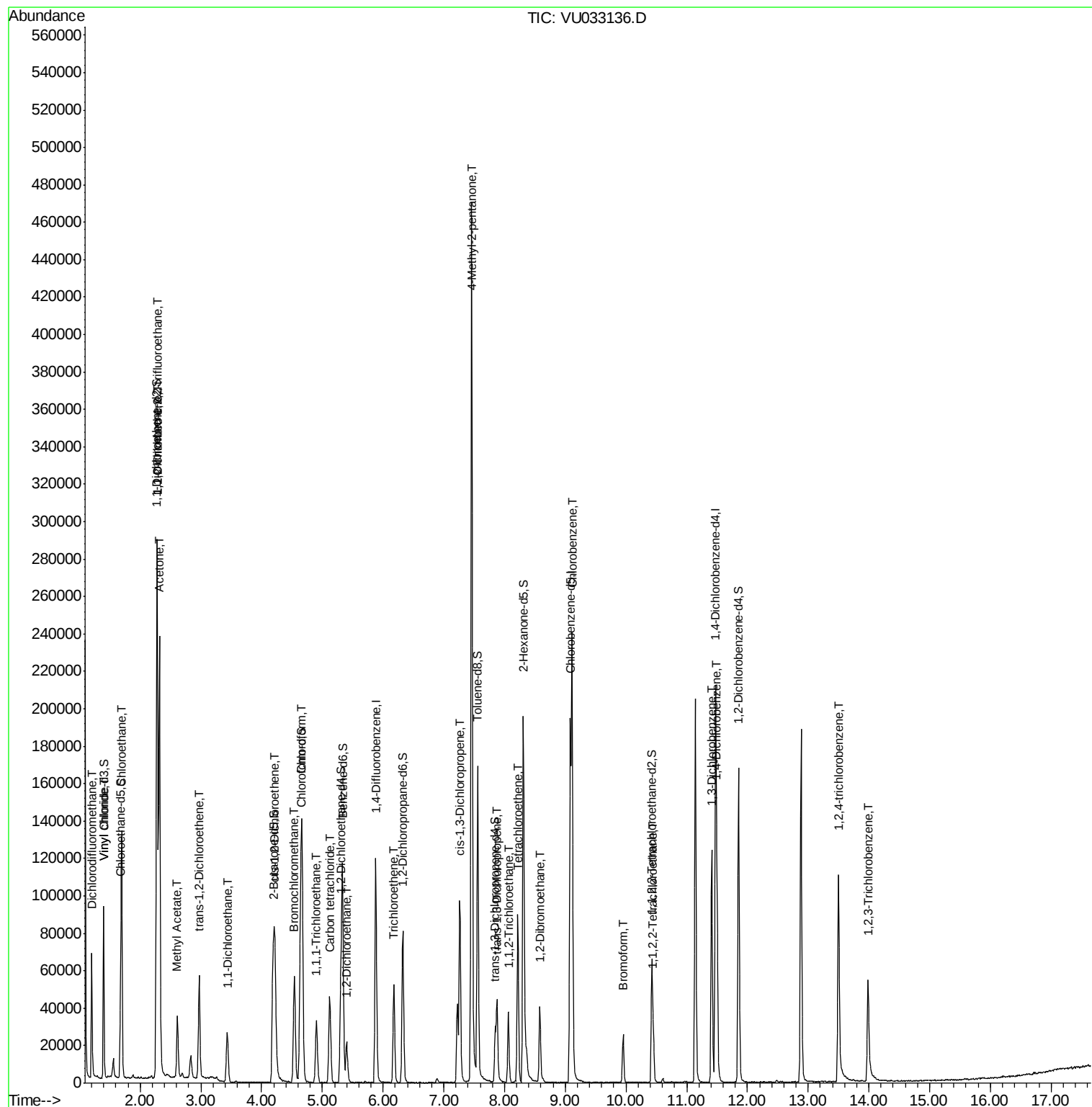
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.46	43	319985	57.210	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	24066	2.543	ug/L	96
45) 1,1,2-Trichloroethane	8.06	97	10954	1.939	ug/L	98
47) Tetrachloroethene	8.22	164	19290	2.907	ug/L	99
50) 1,2-Dibromoethane	8.58	107	26248	4.856	ug/L	100
51) Chlorobenzene	9.11	112	119390	5.745	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	11865	1.654	ug/L	92
61) Bromoform	9.95	173	11114	2.806	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	50089	3.045	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	33036	1.934	ug/L	96
68) 1,2,4-trichlorobenzene	13.50	180	43315	4.729	ug/L	95
70) 1,2,3-Trichlorobenzene	13.99	180	23235	2.668	ug/L	96

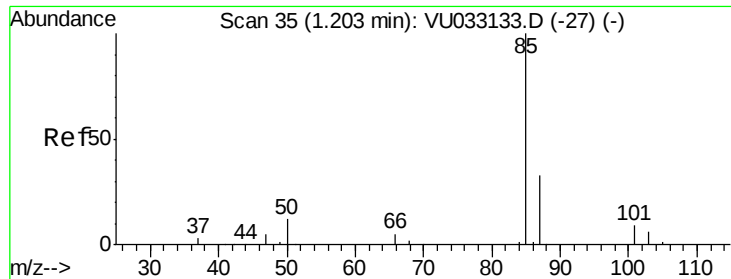
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 3.498 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

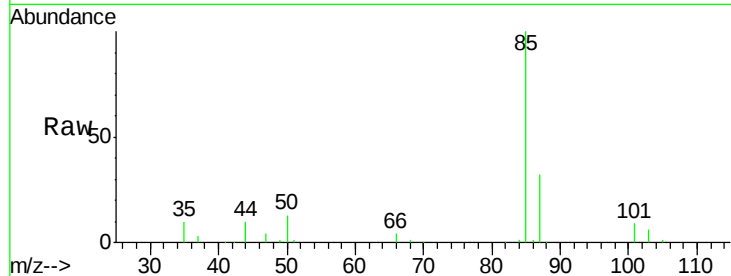
GAMM7

Tot Ion: 85 Resp: 34660

Ion Ratio Lower Upper

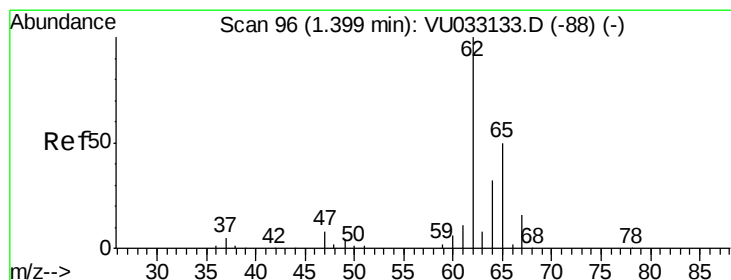
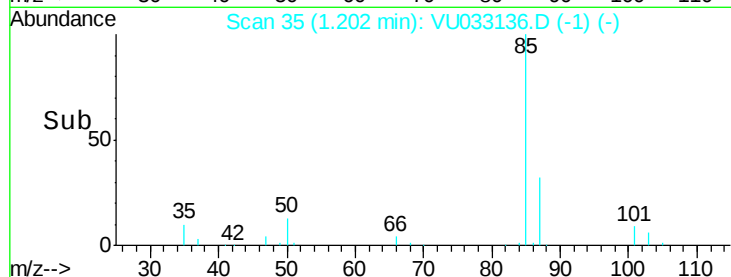
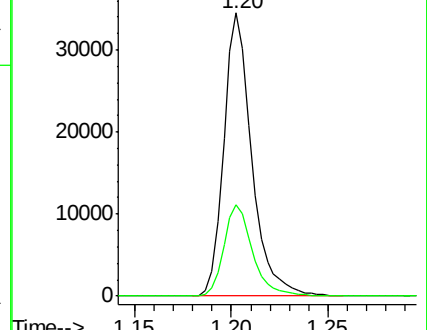
85 100

87 32.9 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU033136.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU033136.D (-27) (-)



#5

Vinyl chloride

Concen: 3.669 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033136.D

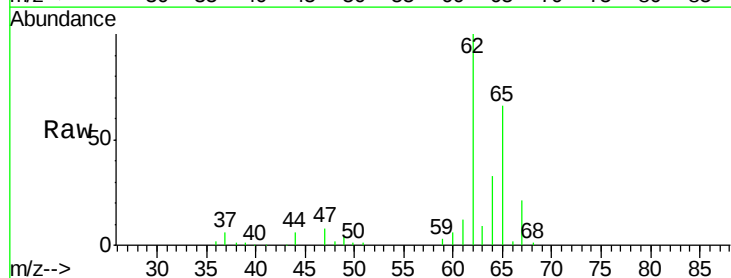
Acq: 02 Jul 2019 13:21

Tgt Ion: 62 Resp: 34432

Ion Ratio Lower Upper

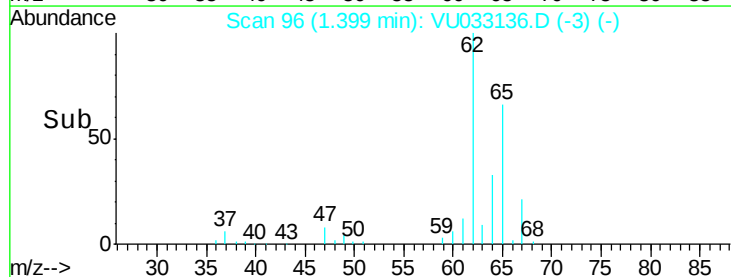
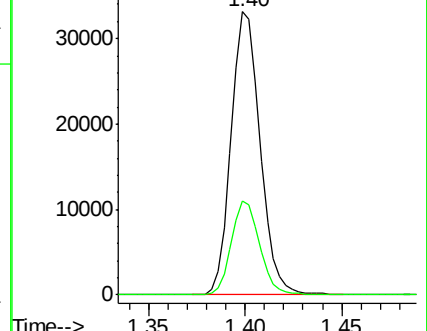
62 100

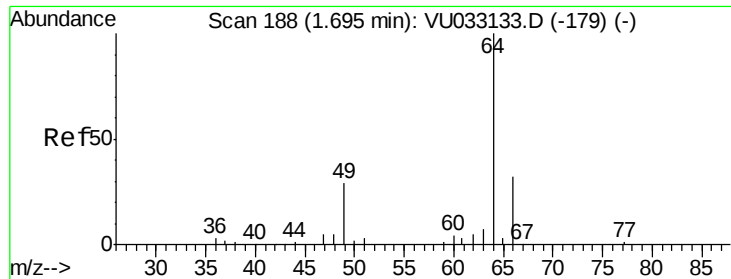
64 33.0 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU033136.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU033136.D (-88) (-)





#8

Chloroethane

Concen: 12.825 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

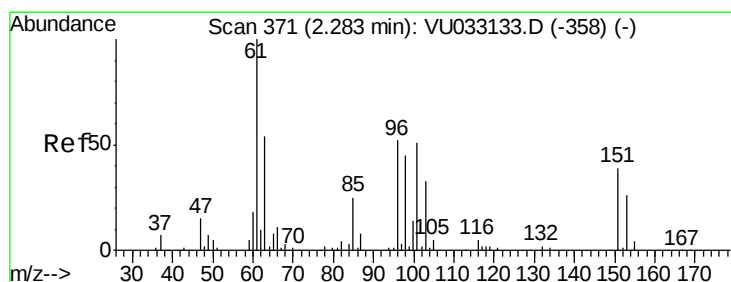
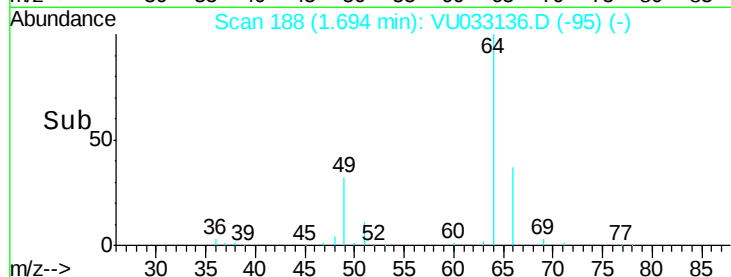
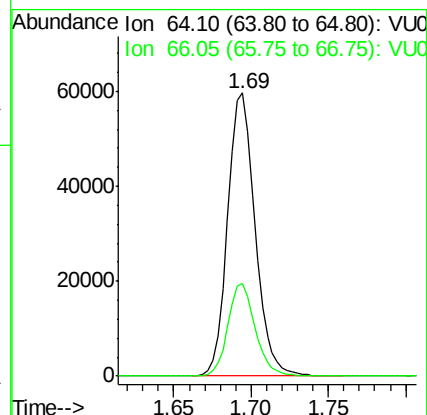
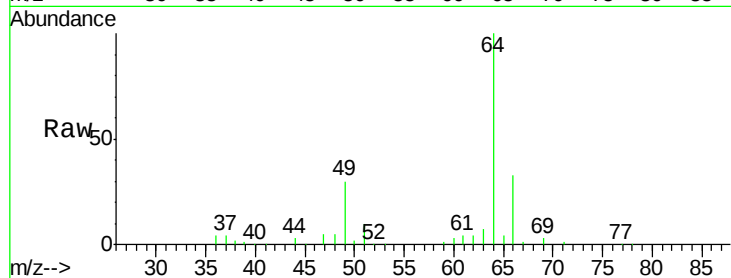
GAMM7

Tot Ion: 64 Resp: 73112

Ion Ratio Lower Upper

64 100

66 32.6 22.3 41.5



#10

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

Concen: 10.459 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

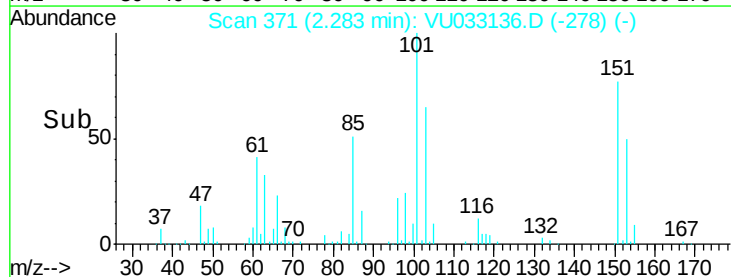
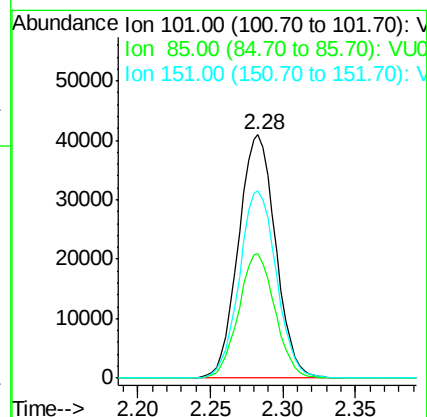
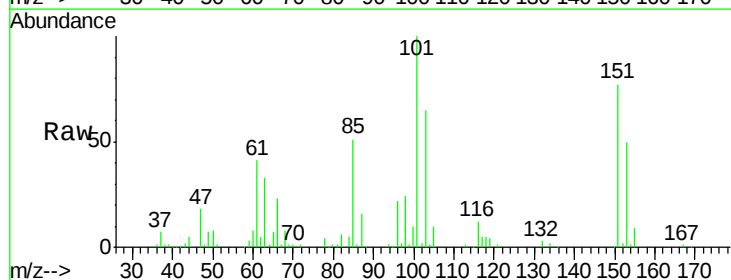
Tgt Ion:101 Resp: 72904

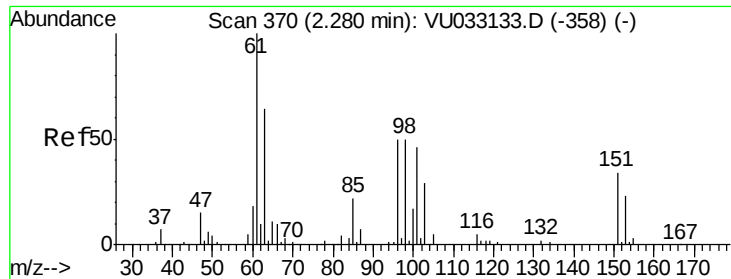
Ion Ratio Lower Upper

101 100

85 50.1 38.0 57.0

151 77.1 60.6 91.0





#12

1,1-Dichloroethene

Concen: 2.222 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

GAMM7

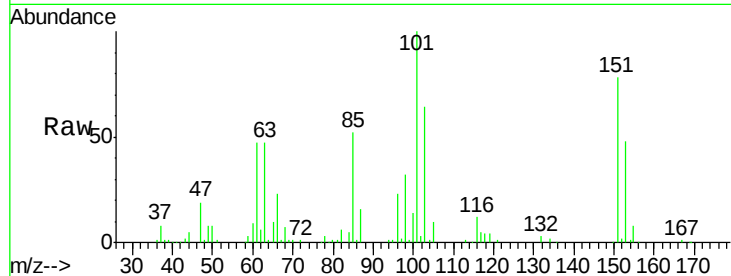
Tot Ion: 96 Resp: 14023

Ion Ratio Lower Upper

96 100

61 202.2 135.5 251.7

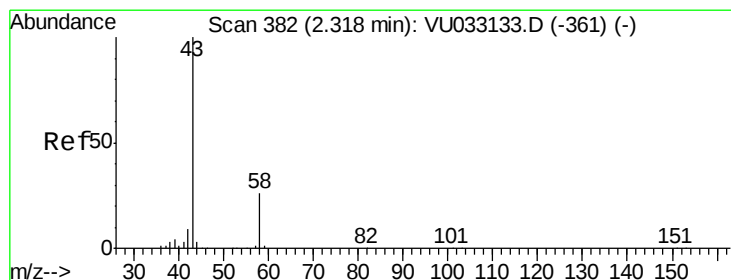
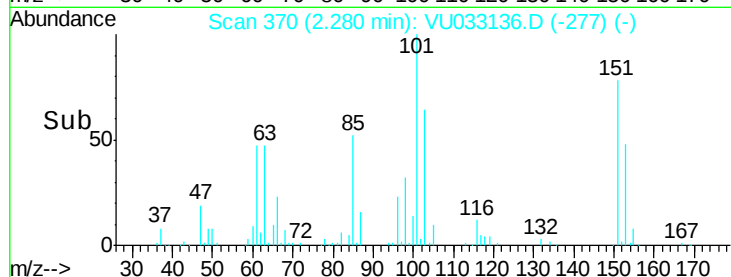
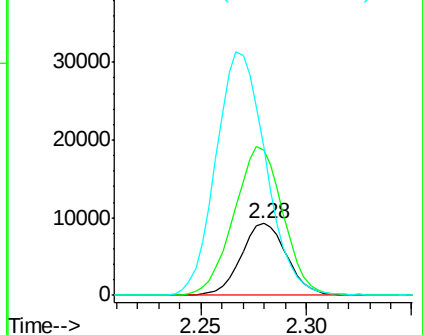
63 205.5 98.0 182.0#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 149.702 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU033136.D

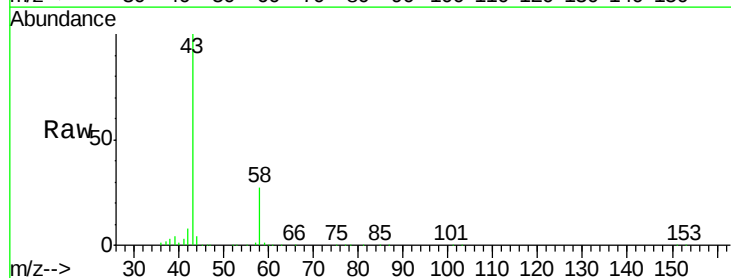
Acq: 02 Jul 2019 13:21

Tgt Ion: 43 Resp: 245282

Ion Ratio Lower Upper

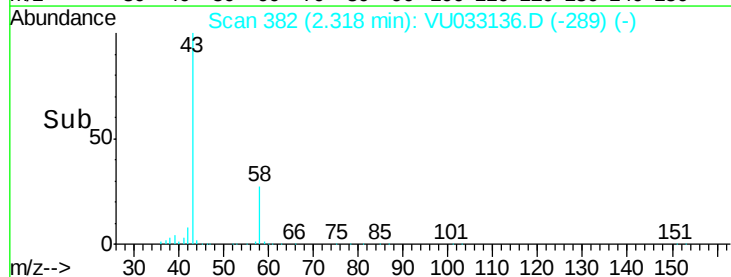
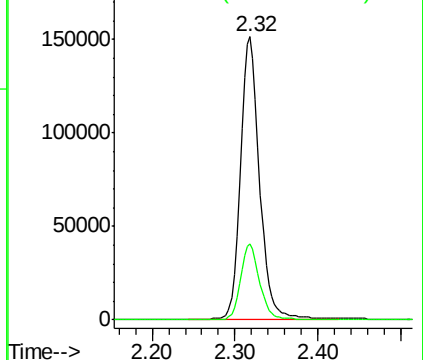
43 100

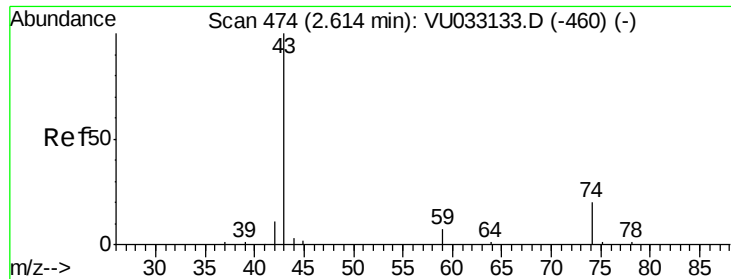
58 27.0 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#15

Methyl Acetate

Concen: 9.929 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

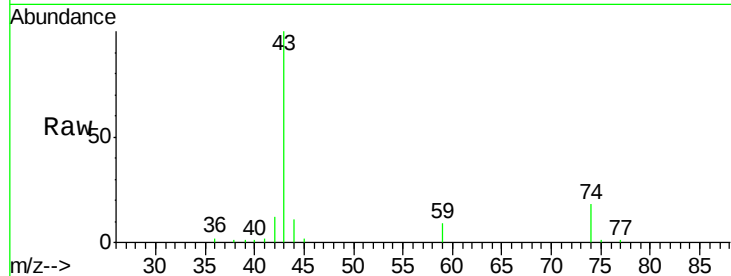
GAMM7

Tot Ion: 43 Resp: 38571

Ion Ratio Lower Upper

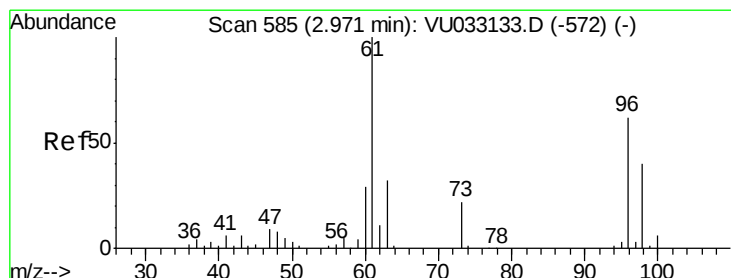
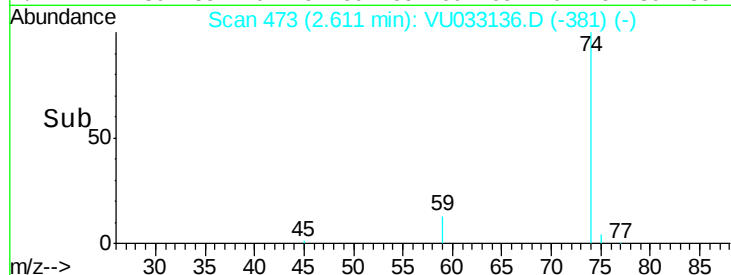
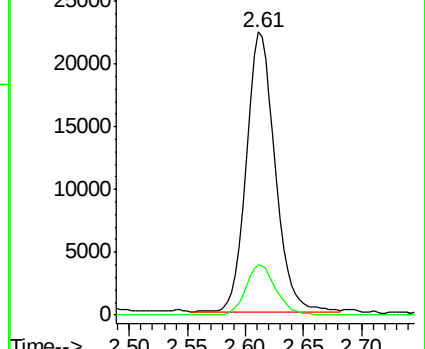
43 100

74 18.5 16.8 25.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#18

trans-1,2-Dichloroethene

Concen: 2.603 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

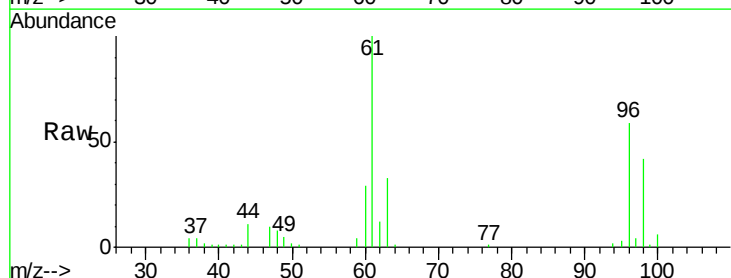
Tgt Ion: 96 Resp: 18124

Ion Ratio Lower Upper

96 100

61 169.7 111.3 206.7

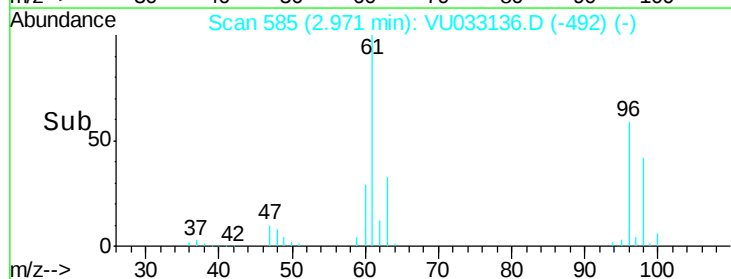
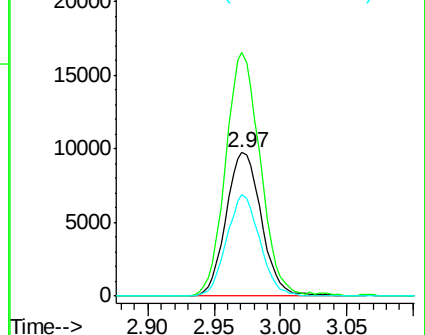
98 70.7 44.0 81.8

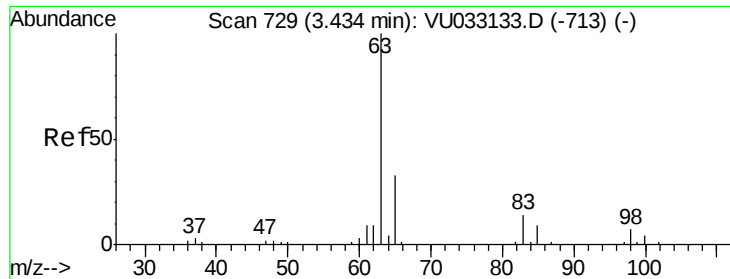


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

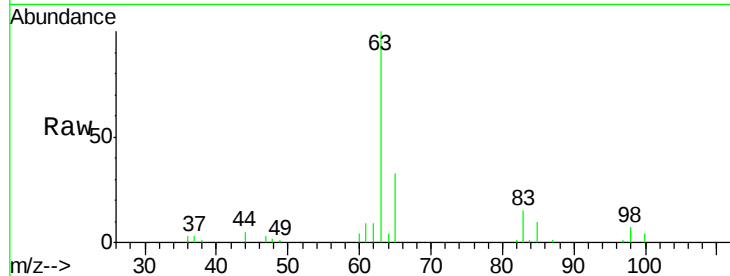




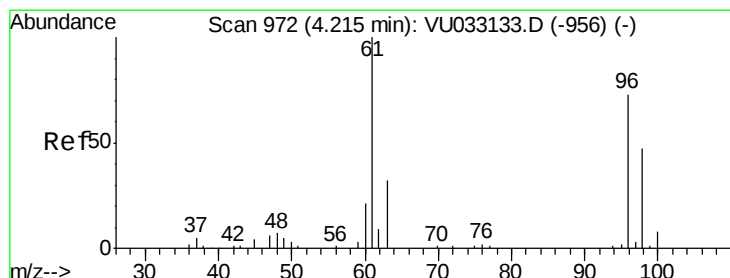
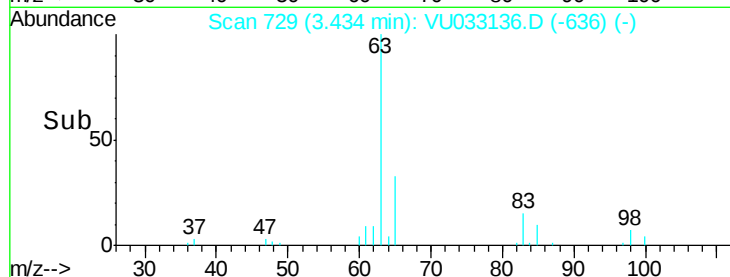
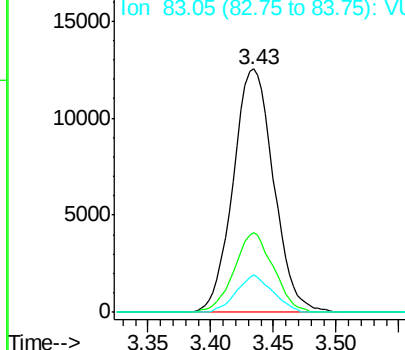
#19
 1,1-Dichloroethane
 Concen: 2.017 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. -0.00 min
 Lab File: VU033136.D
 Acq: 02 Jul 2019 13:21

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMM7

Tot Ion: 63 Resp: 28202
 Ion Ratio Lower Upper
 63 100
 65 32.6 21.4 39.8
 83 15.3 9.9 18.3

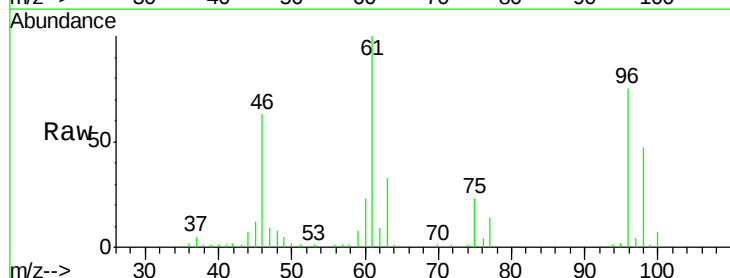


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

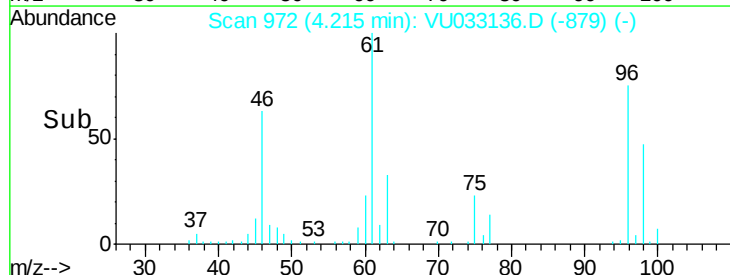
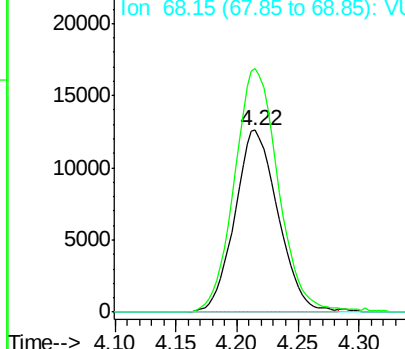


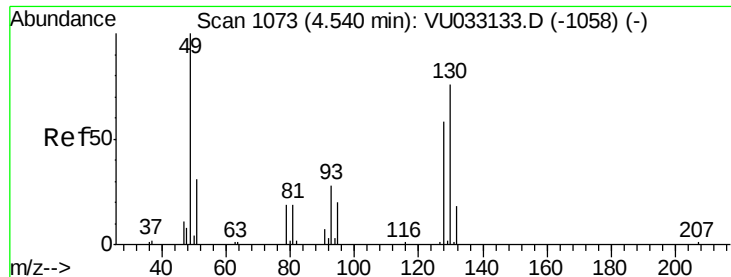
#22
 cis-1,2-Dichloroethene
 Concen: 4.016 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU033136.D
 Acq: 02 Jul 2019 13:21

Tgt Ion: 96 Resp: 30918
 Ion Ratio Lower Upper
 96 100
 61 134.0 93.9 174.5
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

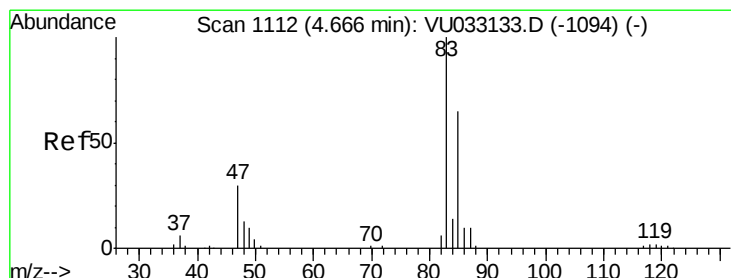
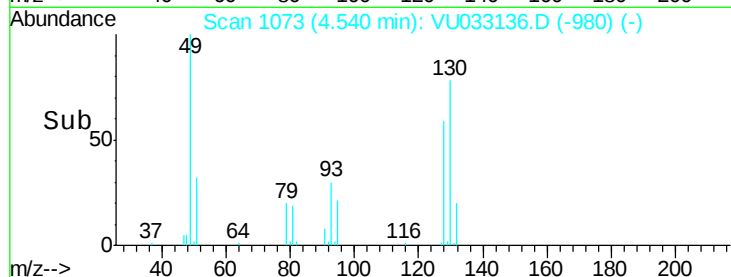
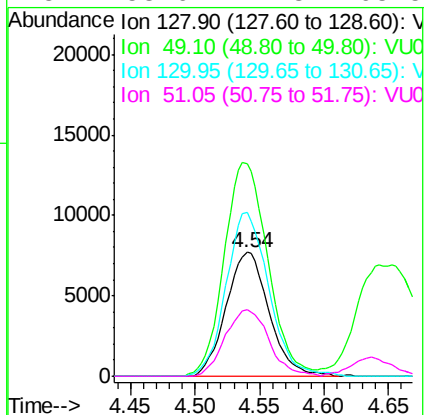
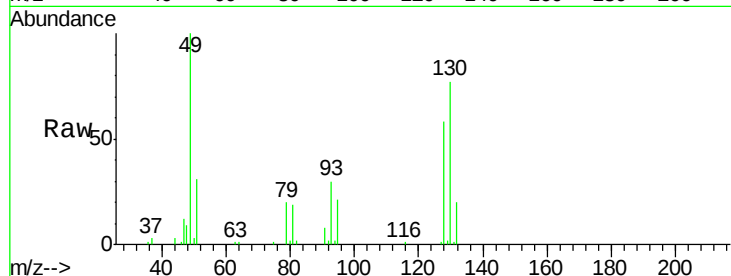




#23
Bromochloromethane
Concen: 4.981 ug/L
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

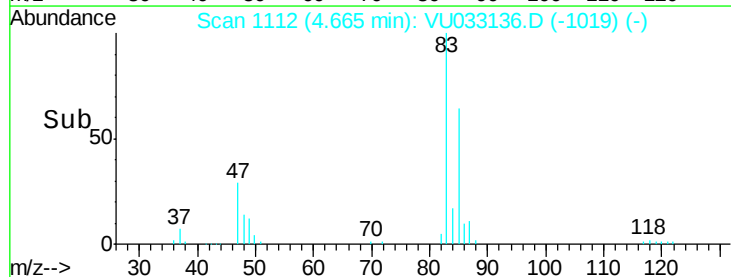
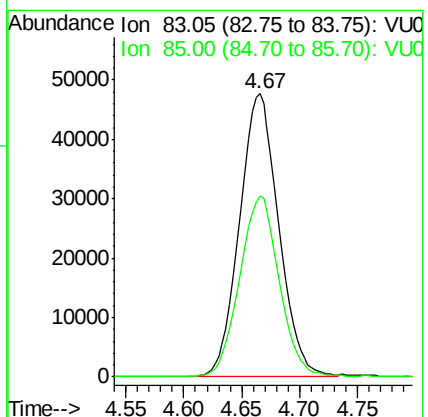
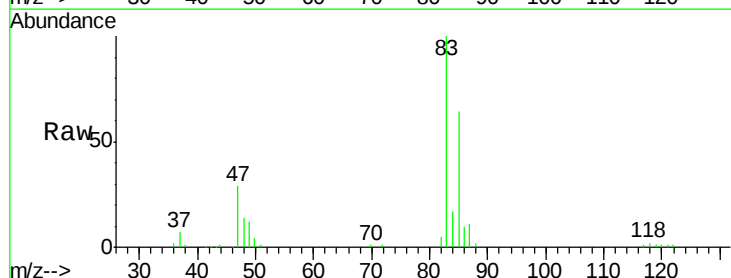
Instrument :
MSVOA_U
ClientSampleId :
GAMM7

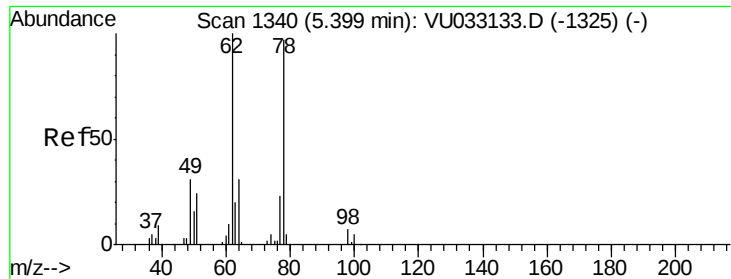
Tot Ion:128 Resp: 17855
Ion Ratio Lower Upper
128 100
49 171.3 122.7 227.9
130 131.8 88.1 163.5
51 53.6 42.3 63.5



#25
Chloroform
Concen: 7.259 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

Tgt Ion: 83 Resp: 112224
Ion Ratio Lower Upper
83 100
85 63.9 46.6 86.6

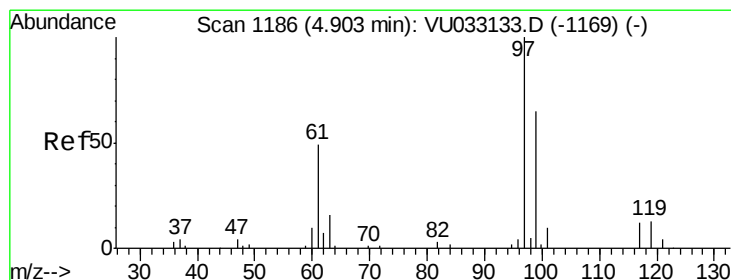
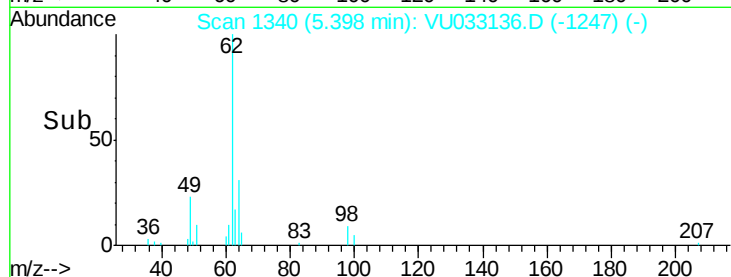
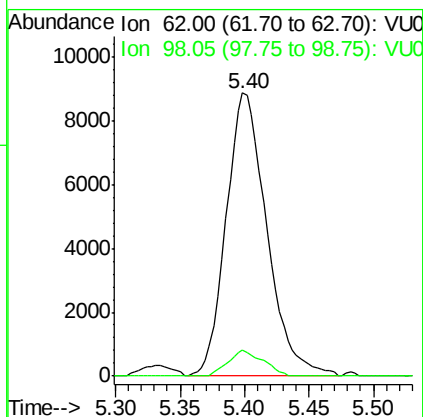
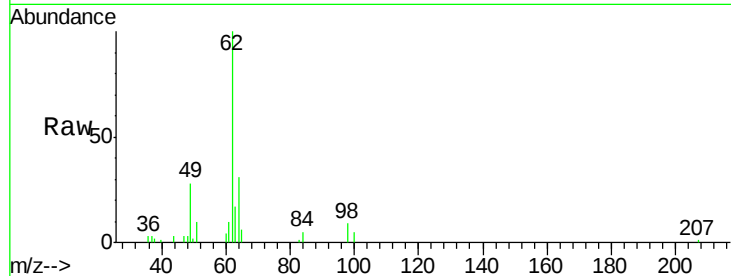




#27
 1,2-Dichloroethane
 Concen: 1.944 ug/L
 RT: 5.40 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VU033136.D
 Acq: 02 Jul 2019 13:21

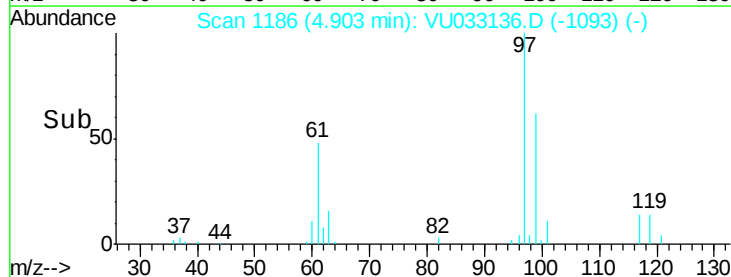
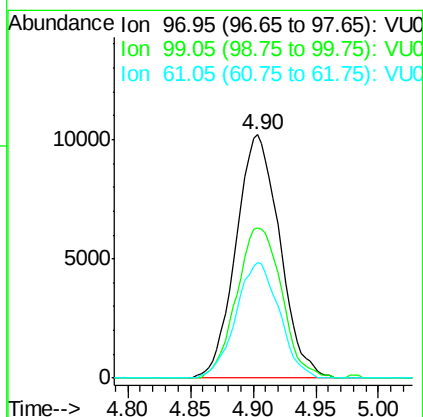
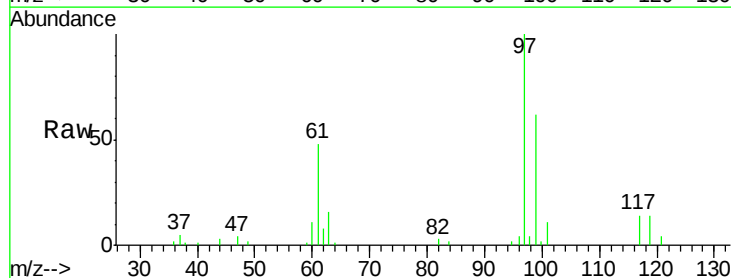
Instrument :
 MSVOA_U
 ClientSampleId :
 GAMM7

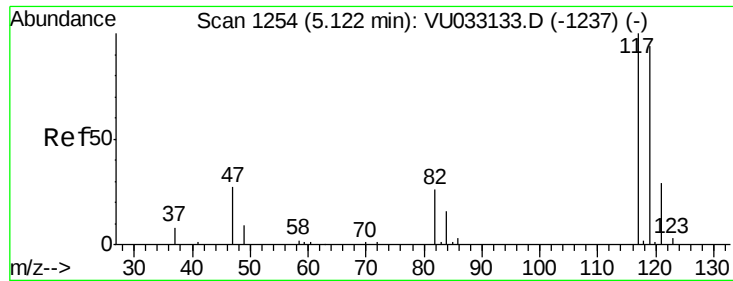
Tot Ion: 62 Resp: 19461
 Ion Ratio Lower Upper
 62 100
 98 9.1 5.9 8.9#



#29
 1,1,1-Trichloroethane
 Concen: 1.934 ug/L
 RT: 4.90 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VU033136.D
 Acq: 02 Jul 2019 13:21

Tgt Ion: 97 Resp: 24760
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.4 77.0
 61 47.0 37.8 56.8





#31

Carbon tetrachloride

Concen: 2.887 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

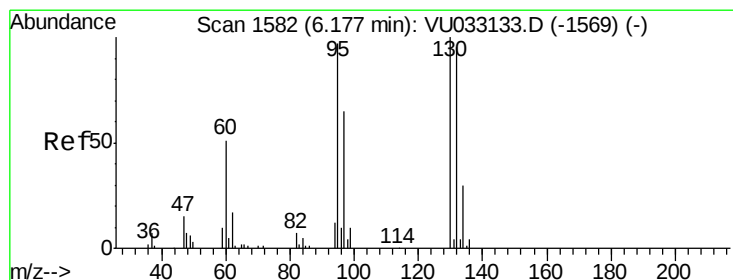
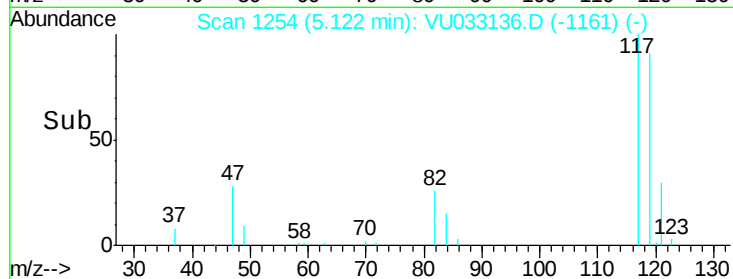
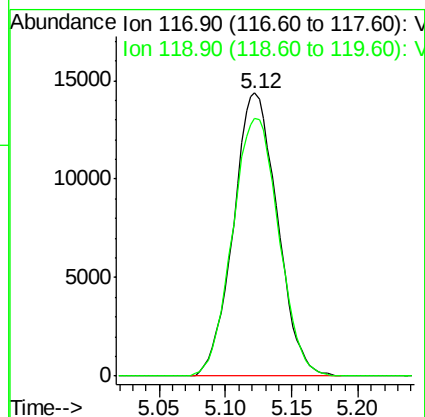
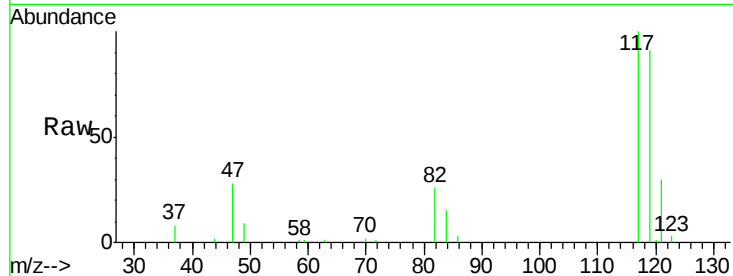
GAMM7

Tot Ion:117 Resp: 33079

Ion Ratio Lower Upper

117 100

119 96.0 78.3 117.5



#34

Trichloroethene

Concen: 2.157 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Tgt Ion: 95 Resp: 17232

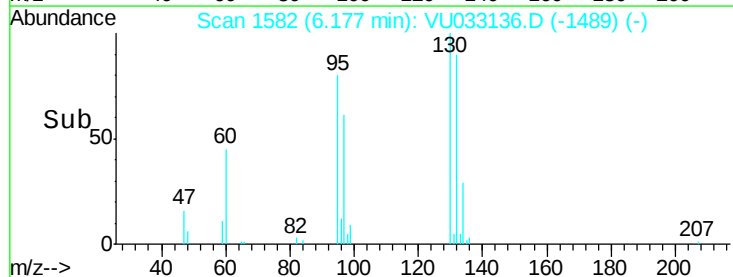
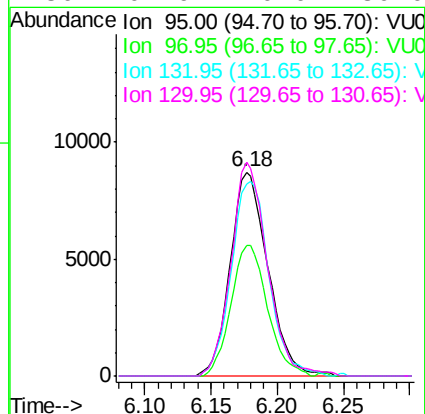
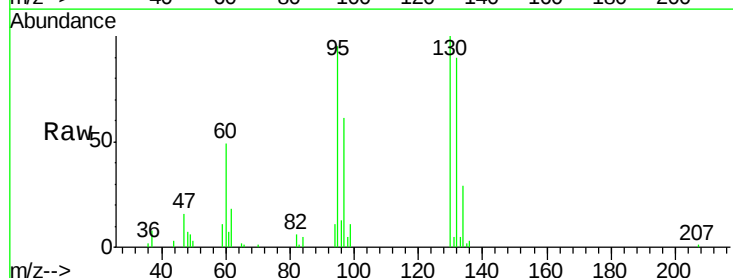
Ion Ratio Lower Upper

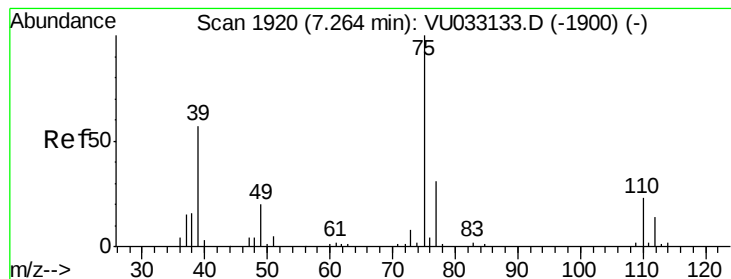
95 100

97 64.0 42.8 79.4

132 94.5 64.6 120.0

130 104.9 70.0 130.0



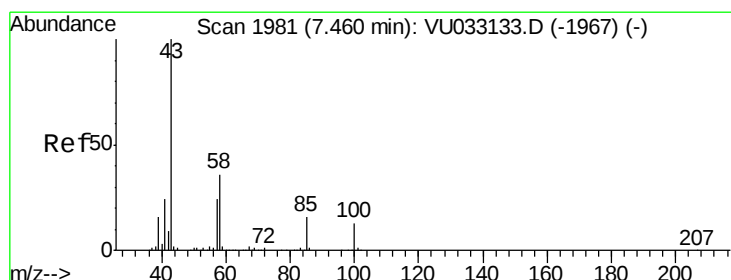
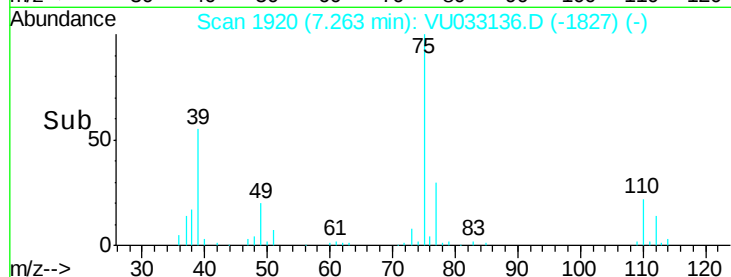
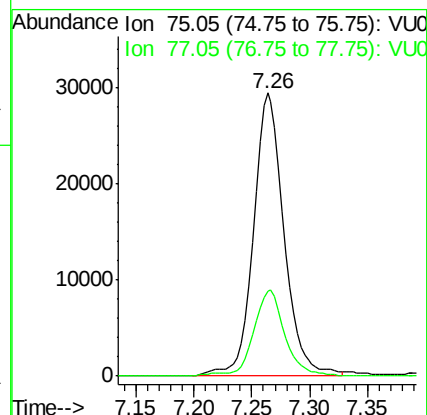
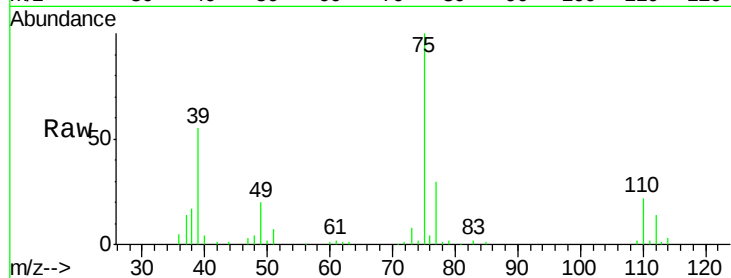


#39

cis-1,3-Dichloropropene
 Concen: 4.777 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU033136.D
 Acq: 02 Jul 2019 13:21

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMM7

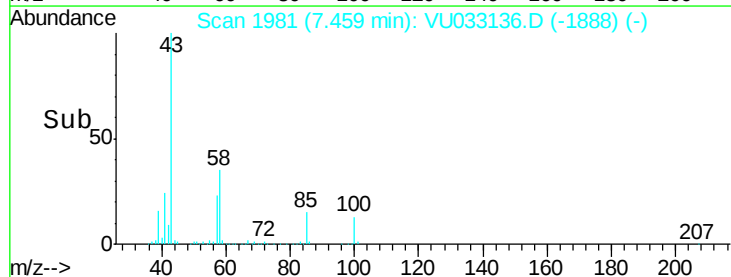
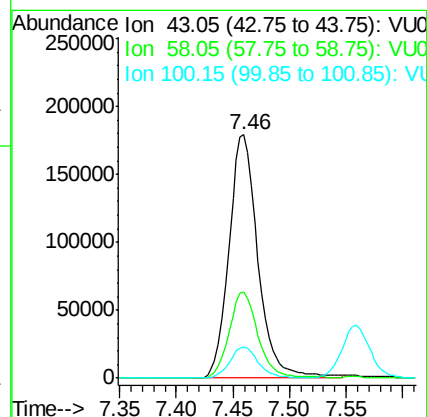
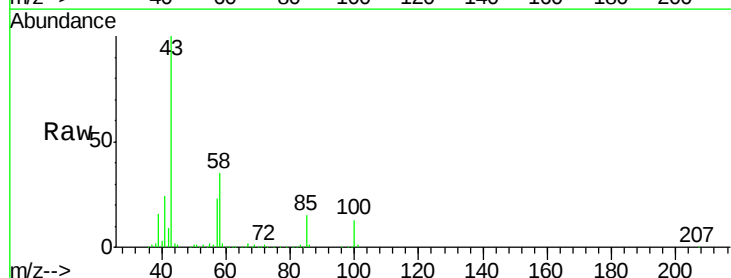
Tot Ion: 75 Resp: 54288
 Ion Ratio Lower Upper
 75 100
 77 30.1 22.8 42.4

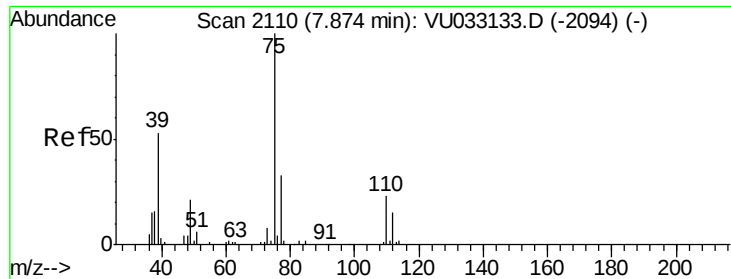


#40

4-Methyl-2-pentanone
 Concen: 57.210 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU033136.D
 Acq: 02 Jul 2019 13:21

Tgt Ion: 43 Resp: 319985
 Ion Ratio Lower Upper
 43 100
 58 35.5 28.5 42.7
 100 12.8 10.4 15.6





#44

trans-1,3-Dichloropropene

Concen: 2.543 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

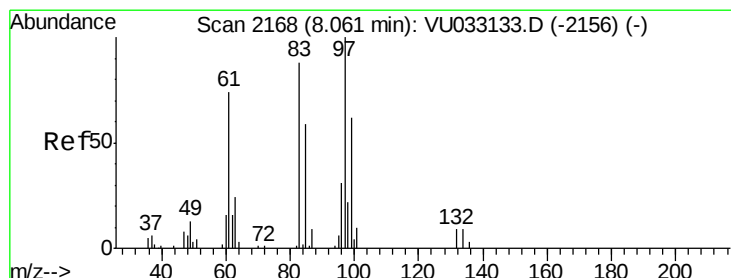
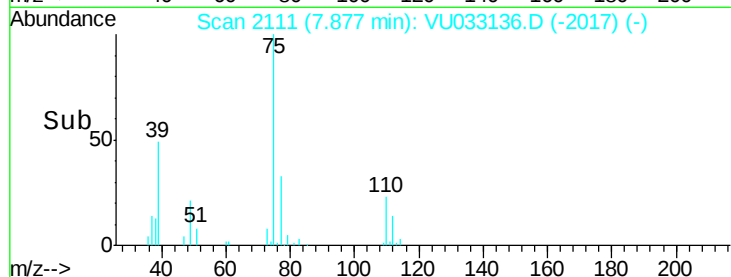
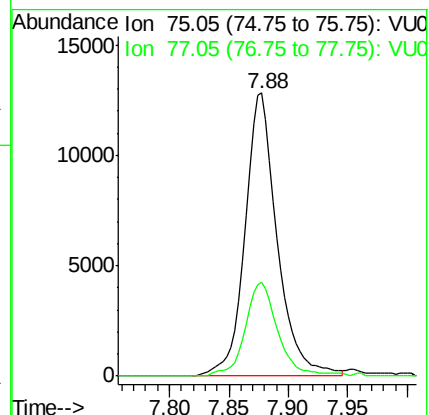
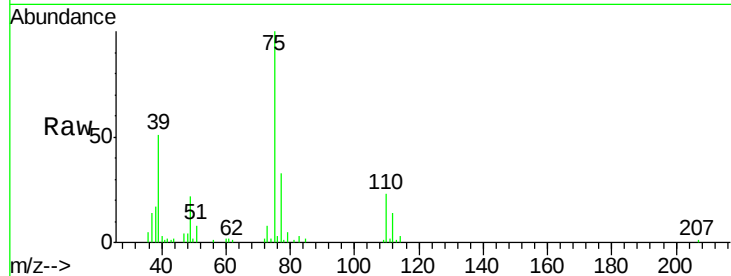
GAMM7

Tot Ion: 75 Resp: 24066

Ion Ratio Lower Upper

75 100

77 33.0 21.6 40.2



#45

1,1,2-Trichloroethane

Concen: 1.939 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Tgt Ion: 97 Resp: 10954

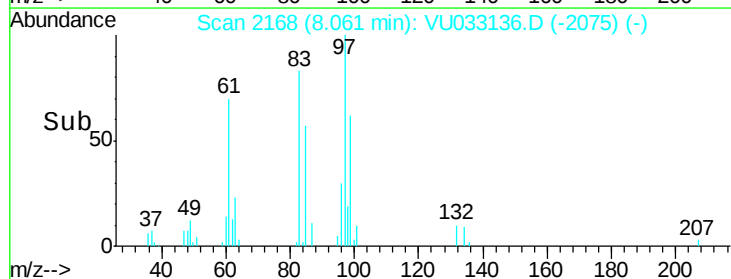
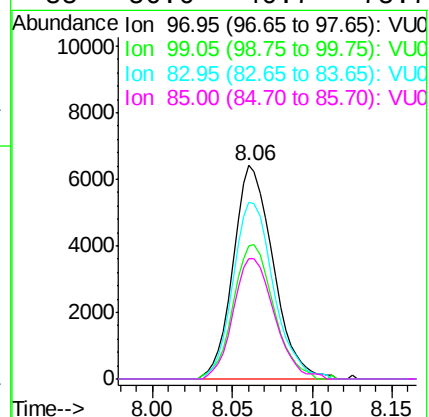
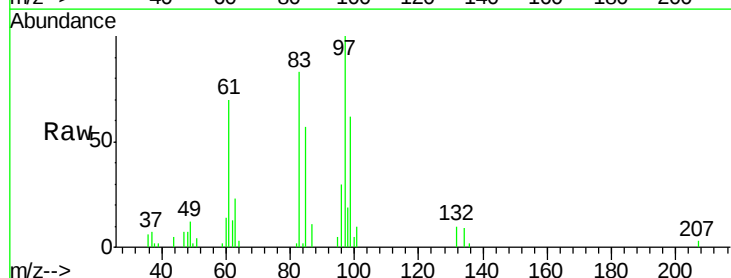
Ion Ratio Lower Upper

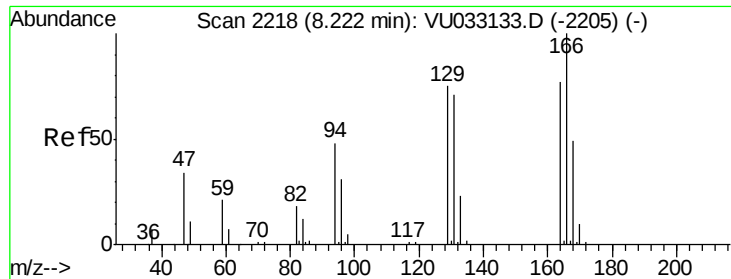
97 100

99 62.2 43.5 80.7

83 82.7 60.8 112.8

85 56.6 40.7 75.7

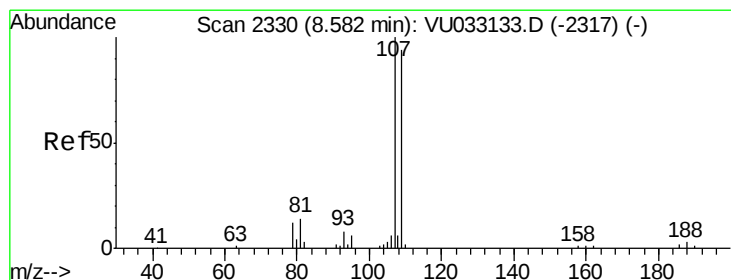
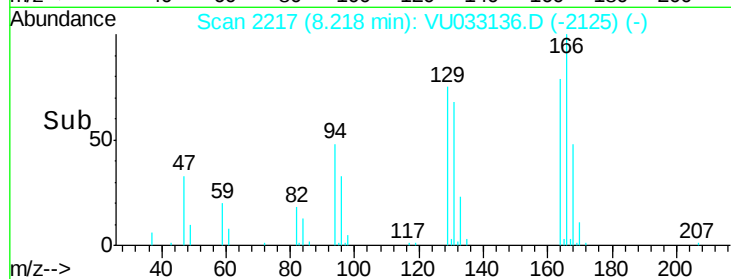
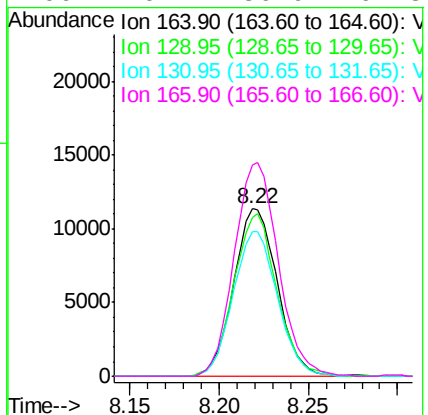
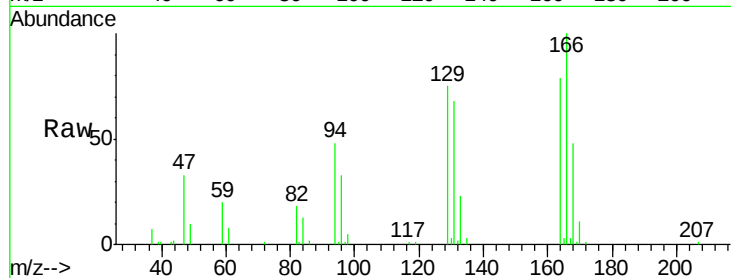




#47
Tetrachloroethene
Concen: 2.907 ug/L
RT: 8.22 min Scan# 2217
Delta R.T. -0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

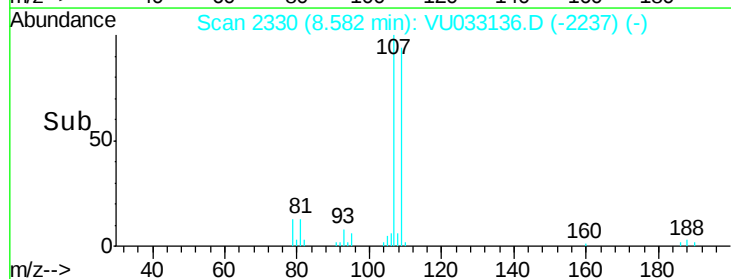
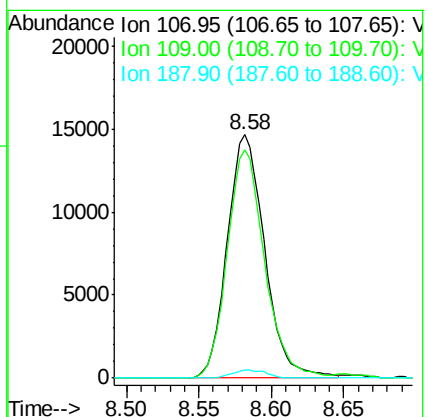
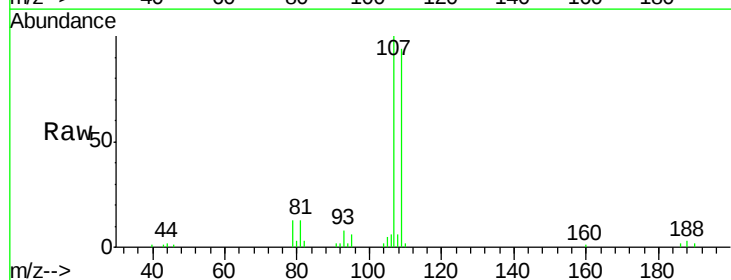
Instrument :
MSVOA_U
ClientSampleId :
GAMM7

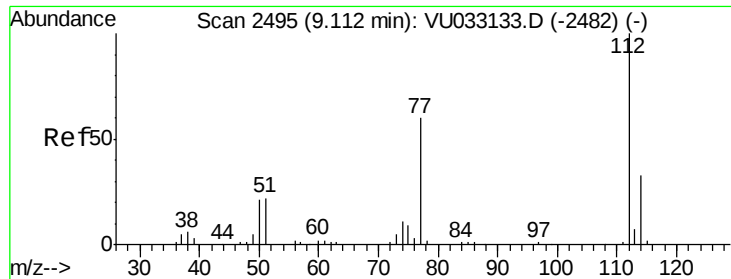
Tot Ion:164 Resp: 19290
Ion Ratio Lower Upper
164 100
129 94.7 65.3 121.3
131 86.0 60.3 112.1
166 126.4 86.9 161.3



#50
1,2-Dibromoethane
Concen: 4.856 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

Tgt Ion:107 Resp: 26248
Ion Ratio Lower Upper
107 100
109 93.9 65.5 121.7
188 3.3 2.5 3.7

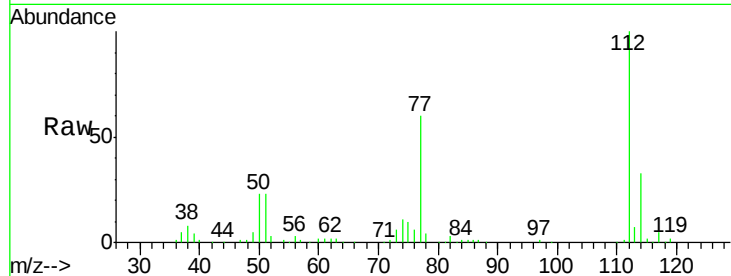




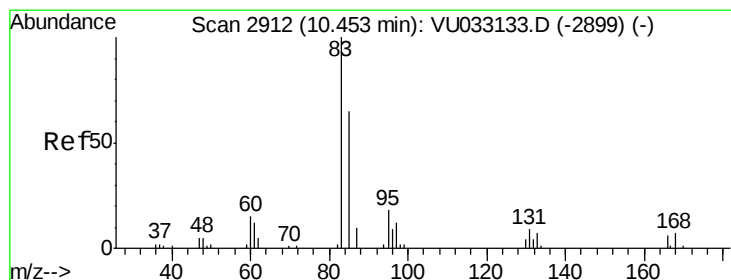
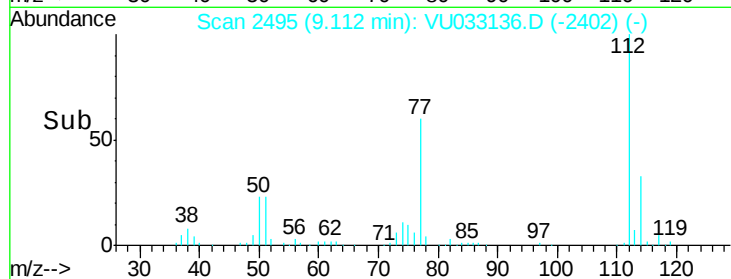
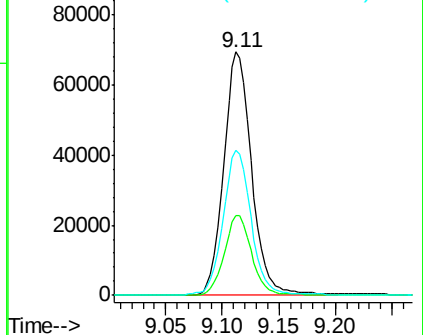
#51
Chlorobenzene
Concen: 5.745 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. -0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

Instrument :
MSVOA_U
ClientSampled :
GAMM7

Tot Ion:112 Resp: 119390
Ion Ratio Lower Upper
112 100
114 32.9 23.0 42.6
77 59.8 48.3 72.5

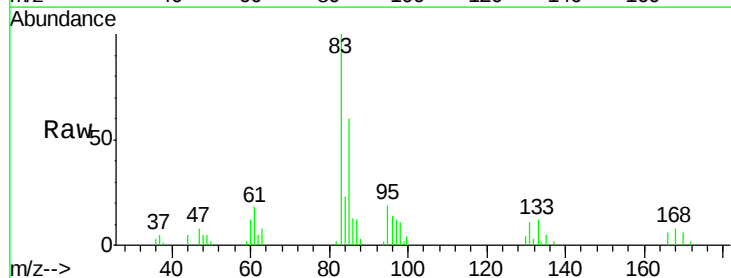


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

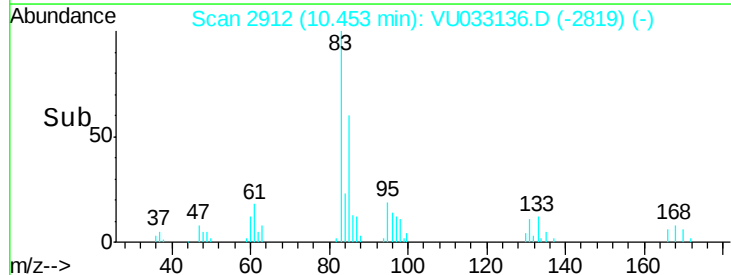
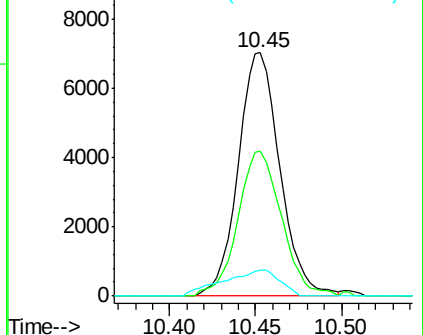


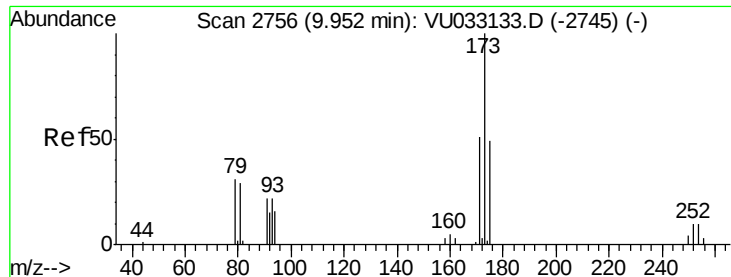
#58
1,1,2,2-Tetrachloroethane
Concen: 1.654 ug/L
RT: 10.45 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

Tgt Ion: 83 Resp: 11865
Ion Ratio Lower Upper
83 100
85 59.6 46.2 85.8
131 10.9 7.3 10.9



Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 130.95 (130.65 to 131.65): V

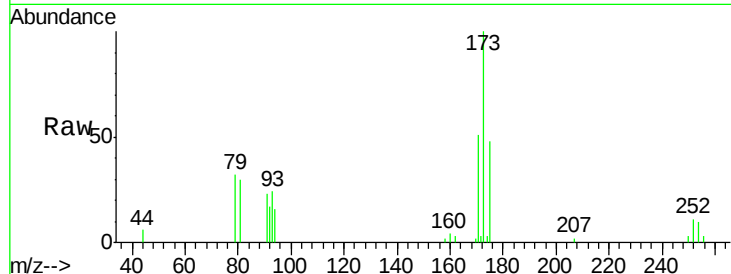




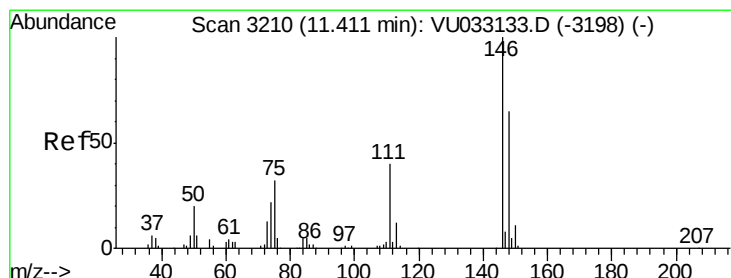
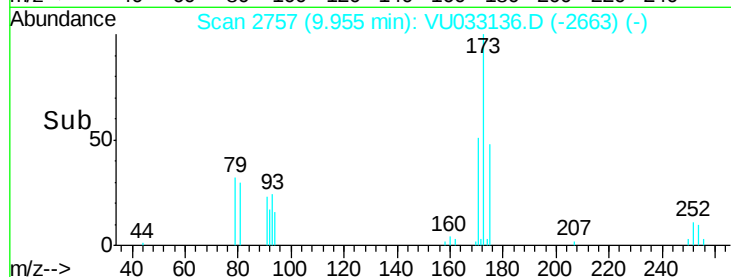
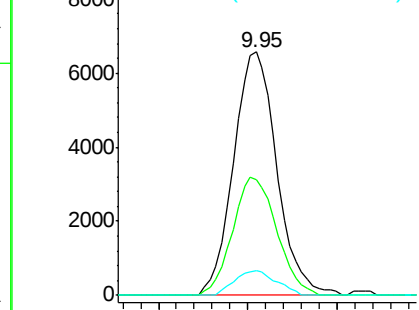
#61
Bromoform
Concen: 2.806 ug/L
RT: 9.95 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

Instrument :
MSVOA_U
ClientSampleId :
GAMM7

Tot Ion:173 Resp: 11114
Ion Ratio Lower Upper
173 100
175 49.4 38.2 57.2
254 9.7 6.9 10.3

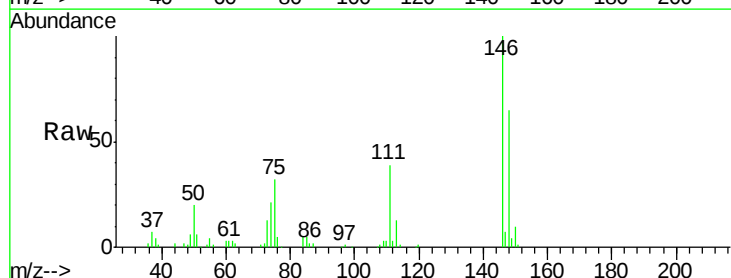


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V

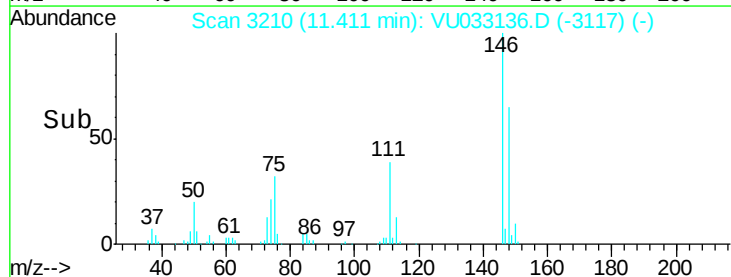
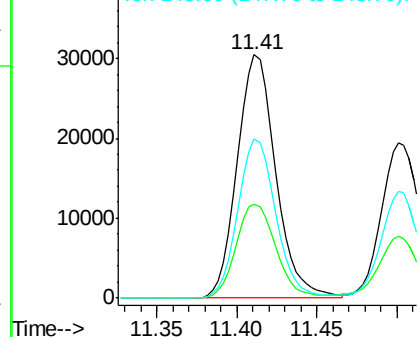


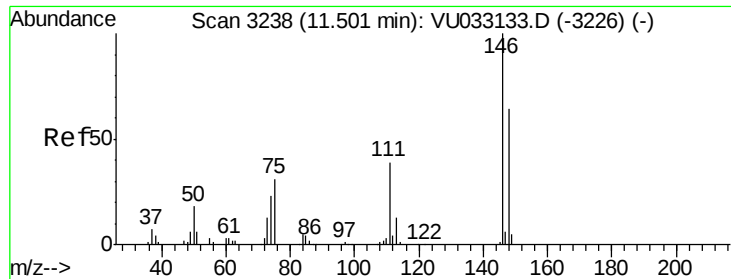
#62
1,3-Dichlorobenzene
Concen: 3.045 ug/L
RT: 11.41 min Scan# 3210
Delta R.T. -0.00 min
Lab File: VU033136.D
Acq: 02 Jul 2019 13:21

Tgt Ion:146 Resp: 50089
Ion Ratio Lower Upper
146 100
111 38.7 28.2 52.4
148 65.1 45.2 84.0



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 1.934 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

Instrument :

MSVOA_U

ClientSampleId :

GAMM7

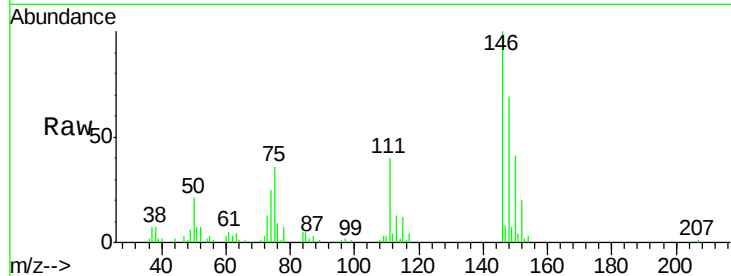
Tot Ion:146 Resp: 33036

Ion Ratio Lower Upper

146 100

111 39.8 27.0 50.2

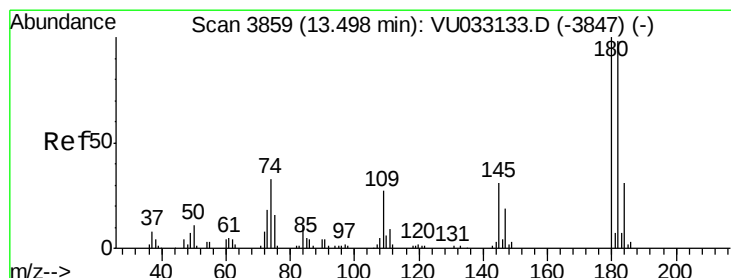
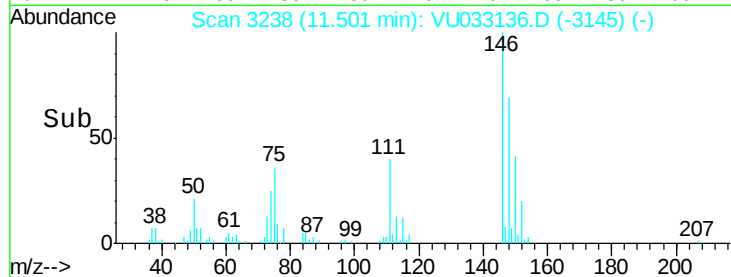
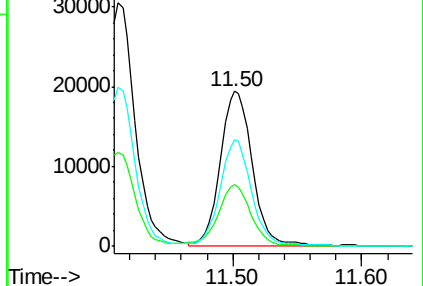
148 68.6 45.1 83.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 4.729 ug/L

RT: 13.50 min Scan# 3860

Delta R.T. 0.00 min

Lab File: VU033136.D

Acq: 02 Jul 2019 13:21

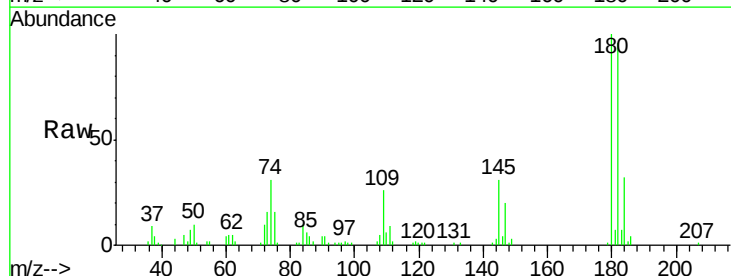
Tgt Ion:180 Resp: 43315

Ion Ratio Lower Upper

180 100

182 89.2 75.7 113.5

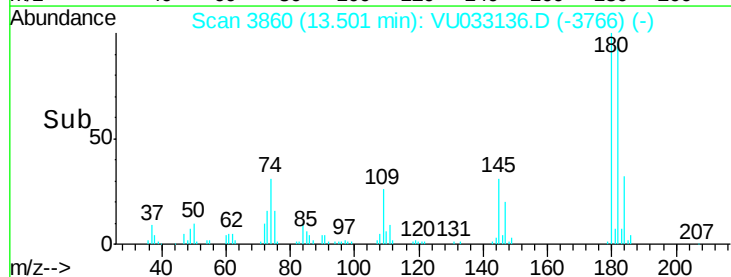
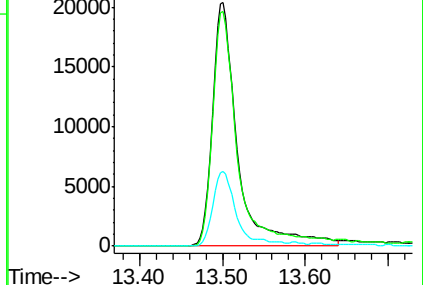
145 27.8 23.1 34.7

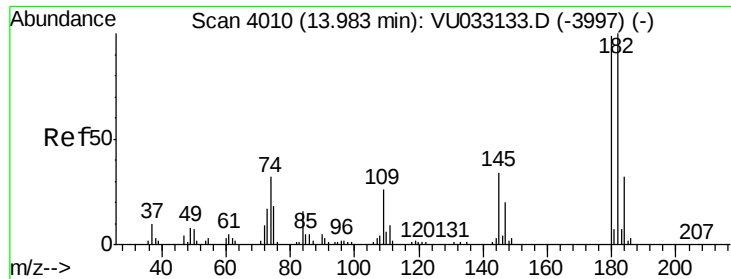


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#70
 1,2,3-Trichlorobenzene
 Concen: 2.668 ug/L
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU033136.D
 Acq: 02 Jul 2019 13:21

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMM7

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	79.9	119.9
145	30.2	25.4	38.2

