

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
 Data File : VU025534.D
 Acq On : 20 Jul 2018 12:01
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 21 01:14:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 21 01:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	340572	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	321538	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	167215	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	95451	49.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.18%
7) Chloroethane-d5	1.68	69	78569	48.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.98%
11) 1,1-Dichloroethene-d2	2.28	63	201453	49.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.54%
21) 2-Butanone-d5	4.18	46	160136	106.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.68%
24) Chloroform-d	4.65	84	216855	50.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.14%
26) 1,2-Dichloroethane-d4	5.31	65	140868	49.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.36%
32) Benzene-d6	5.35	84	414890	50.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.62%
36) 1,2-Dichloropropane-d6	6.34	67	131385	49.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.90%
41) Toluene-d8	7.57	98	396093	50.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.16%
43) trans-1,3-Dichloropropene-	7.85	79	70316	51.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.62%
47) 2-Hexanone-d5	8.31	63	119249	107.18	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.18%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	188644	50.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.52%
64) 1,2-Dichlorobenzene-d4	11.86	152	170607	50.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.68%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.21	85	158596	47.26	ug/L	100
3) Chloromethane	1.33	50	118525	48.91	ug/L	100
5) Vinyl chloride	1.41	62	128328	48.28	ug/L	99
6) Bromomethane	1.63	94	56785	61.43	ug/L	93
8) Chloroethane	1.70	64	73608	47.03	ug/L	98
9) Trichlorofluoromethane	1.89	101	178183	47.08	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	105526	49.79	ug/L	99
12) 1,1-Dichloroethene	2.29	96	93384	48.59	ug/L	98
13) Acetone	2.32	43	149245	84.71	ug/L	99
14) Carbon disulfide	2.48	76	302018	48.26	ug/L	100
15) Methyl Acetate	2.62	43	121433	49.86	ug/L	99
16) Methylene chloride	2.71	84	117335	49.01	ug/L	98
17) trans-1,2-Dichloroethene	2.99	96	105536	47.69	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	357660	49.63	ug/L	99
19) 1,1-Dichloroethane	3.45	63	201099	47.77	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	123551	49.46	ug/L	99
22) 2-Butanone	4.26	43	181756	92.67	ug/L	100

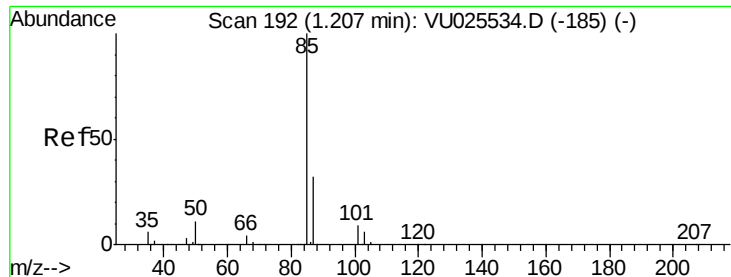
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
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 Acq On : 20 Jul 2018 12:01
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 Quant Title : VOC Analysis
 QLast Update : Sat Jul 21 01:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	64812	49.16	ug/L	98
25) Chloroform	4.68	83	212721	48.02	ug/L	98
27) 1,2-Dichloroethane	5.41	62	175971	48.70	ug/L	97
29) Cyclohexane	5.00	56	181187	48.64	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	192021	47.72	ug/L	99
31) Carbon tetrachloride	5.14	117	174006	46.77	ug/L	99
33) Benzene	5.39	78	445936	48.27	ug/L	100
34) Trichloroethene	6.19	95	118350	48.28	ug/L	96
35) Methylcyclohexane	6.42	83	196031	49.60	ug/L	97
37) 1,2-Dichloropropane	6.44	63	124065	49.14	ug/L	100
38) Bromodichloromethane	6.76	83	162111	48.70	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	195900	50.00	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	328267	99.01	ug/L	98
42) Toluene	7.64	91	481804	48.36	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	182367	49.37	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	115691	47.77	ug/L	100
46) Tetrachloroethene	8.23	164	104144	49.01	ug/L	98
48) 2-Hexanone	8.36	43	274394	97.95	ug/L	99
49) Dibromochloromethane	8.48	129	140481	49.45	ug/L	97
50) 1,2-Dibromoethane	8.59	107	126401	48.45	ug/L	98
51) Chlorobenzene	9.12	112	320644	47.80	ug/L	100
52) Ethylbenzene	9.25	91	543042	49.38	ug/L	99
53) m,p-Xylene	9.38	106	211012	50.10	ug/L	96
54) o-xylene	9.78	106	208272	48.73	ug/L	99
55) Styrene	9.80	104	350756	50.39	ug/L	99
56) Isopropylbenzene	10.17	105	546337	49.53	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	190160	48.68	ug/L	98
59) 1,2,3-Trichloropropane	10.50	75	143586	48.42	ug/L	100
61) Bromoform	9.96	173	103139	47.69	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	263762	49.87	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	266163	49.30	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	270696	48.85	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	44966	51.60	ug/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	208713	51.12	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	179458	52.30	ug/L	97
69) Naphthalene	13.74	128	549411	53.24	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	188055	51.84	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 47.26 ug/L

RT: 1.21 min Scan# 192

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

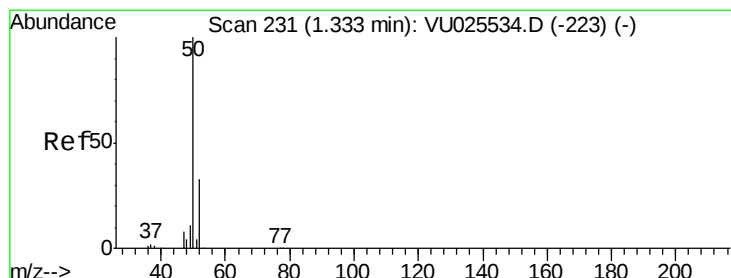
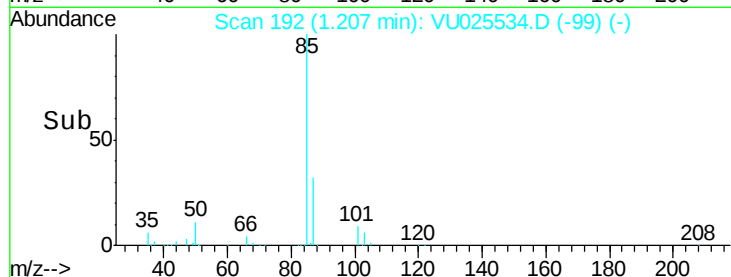
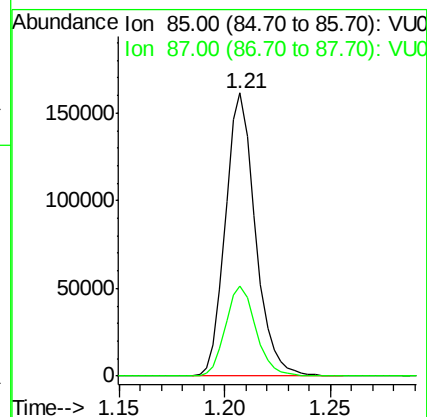
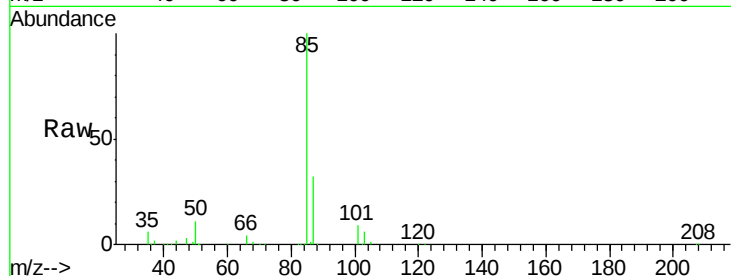
ClientSampleId :

Tot Ion: 85 Resp: 158596

Ion Ratio Lower Upper

85 100

87 32.3 25.6 38.4



#3

Chloromethane

Concen: 48.91 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025534.D

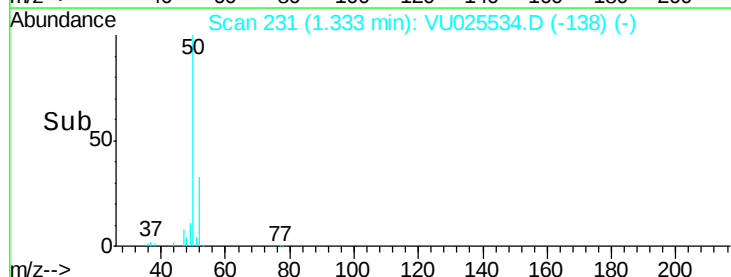
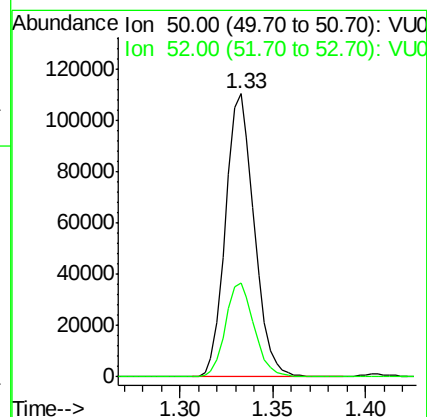
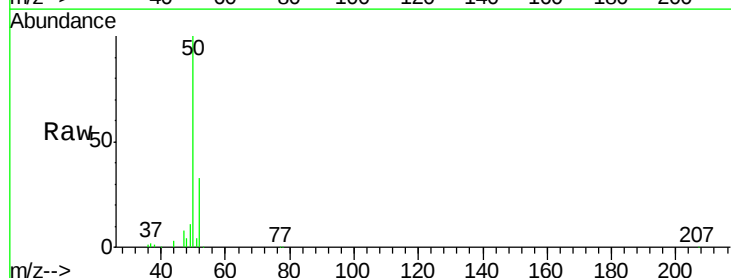
Acq: 20 Jul 2018 12:01

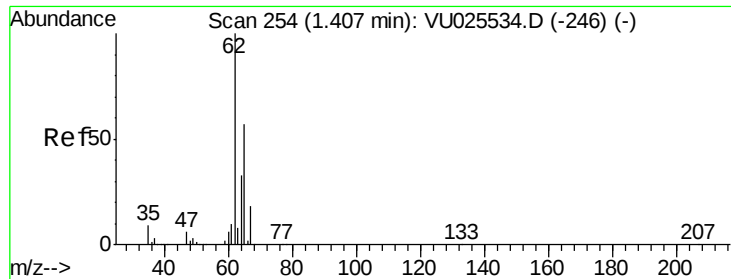
Tgt Ion: 50 Resp: 118525

Ion Ratio Lower Upper

50 100

52 33.2 23.2 43.2





#5

Vinyl chloride

Concen: 48.28 ug/L

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

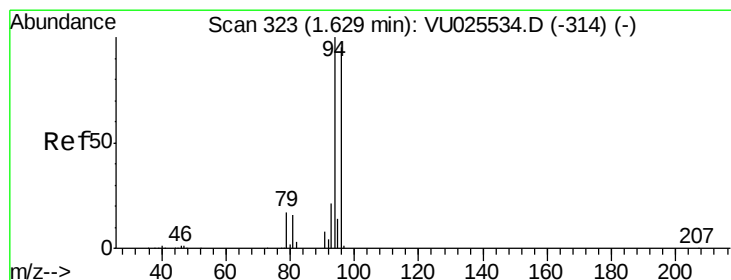
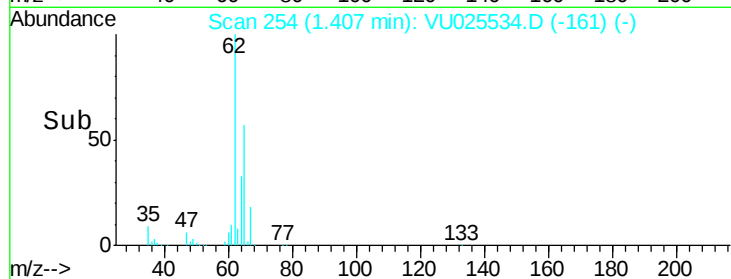
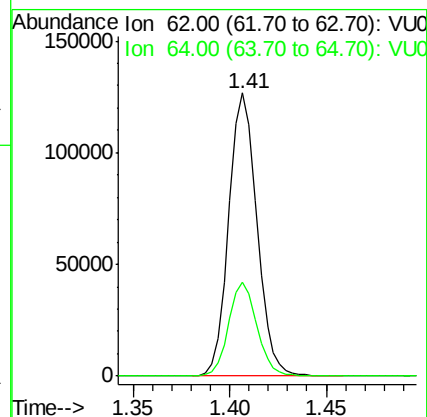
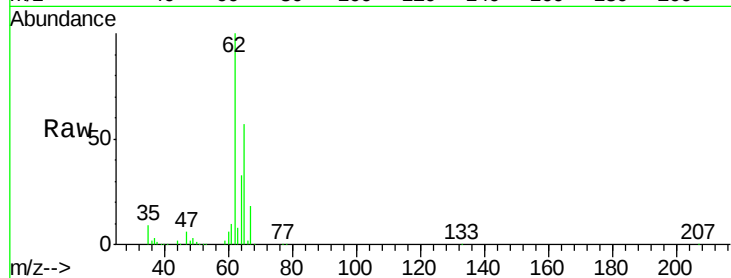
ClientSampleId :

Tot Ion: 62 Resp: 128328

Ion Ratio Lower Upper

62 100

64 33.1 22.7 42.1



#6

Bromomethane

Concen: 61.43 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU025534.D

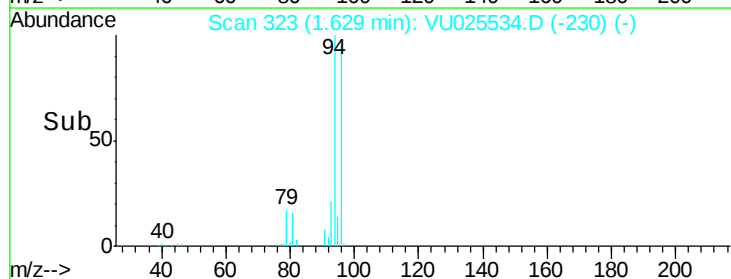
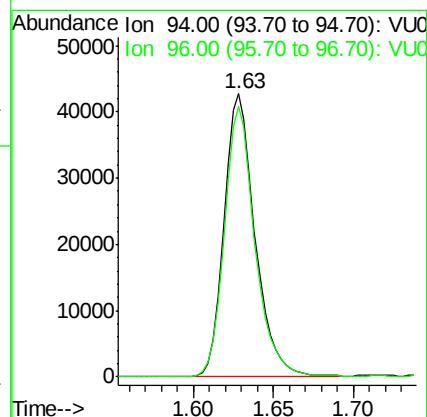
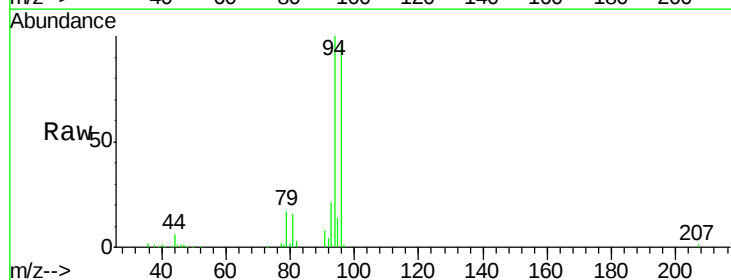
Acq: 20 Jul 2018 12:01

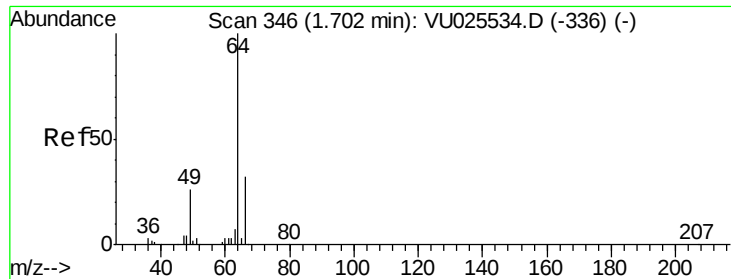
Tgt Ion: 94 Resp: 56785

Ion Ratio Lower Upper

94 100

96 95.7 62.4 115.8

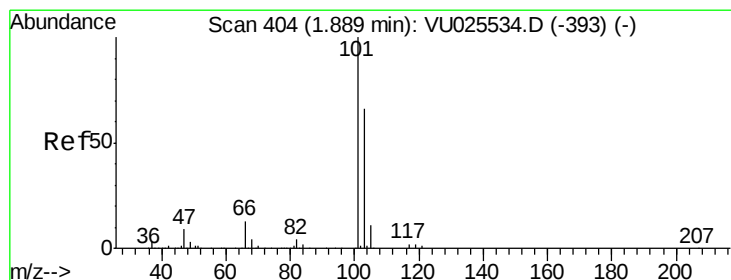
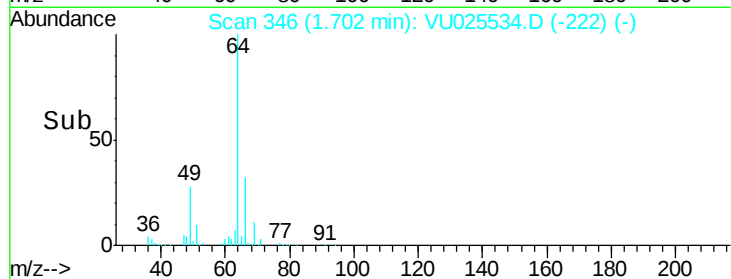
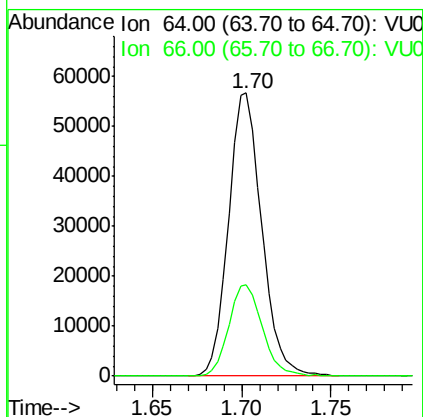
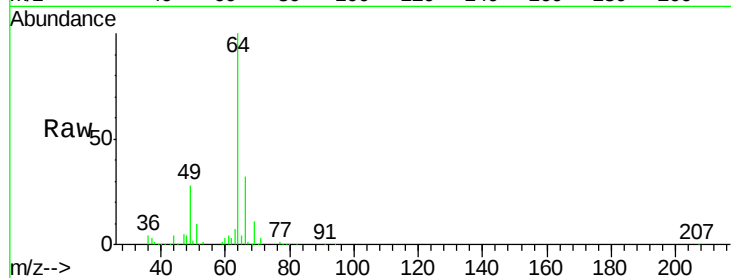




#8
Chloroethane
Concen: 47.03 ug/L
RT: 1.70 min Scan# 346
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

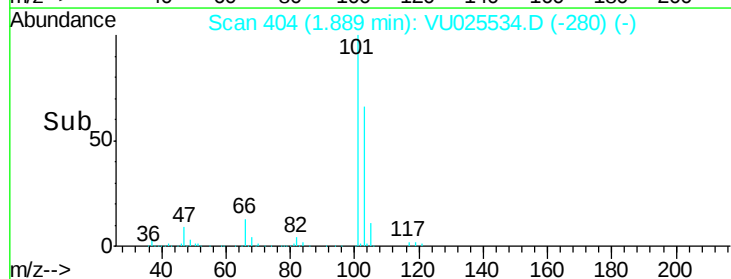
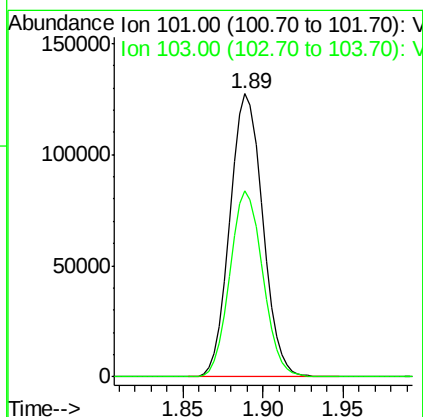
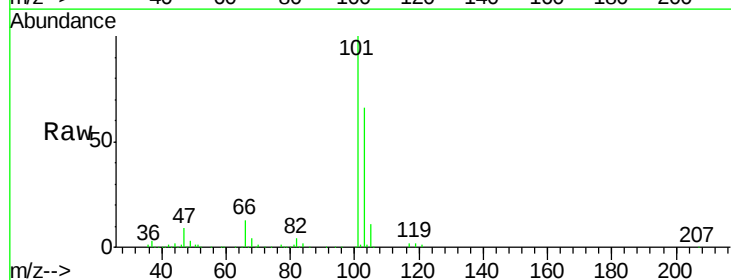
Instrument :
MSVOA_U
ClientSampled :

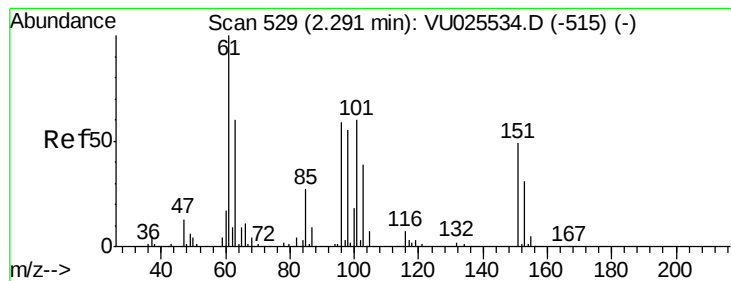
Tot Ion: 64 Resp: 73608
Ion Ratio Lower Upper
64 100
66 32.5 23.5 43.7



#9
Trichlorofluoromethane
Concen: 47.08 ug/L
RT: 1.89 min Scan# 404
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

Tgt Ion:101 Resp: 178183
Ion Ratio Lower Upper
101 100
103 65.6 52.0 78.0





#10

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

Concen: 49.79 ug/L

RT: 2.29 min Scan# 529

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

ClientSampleId :

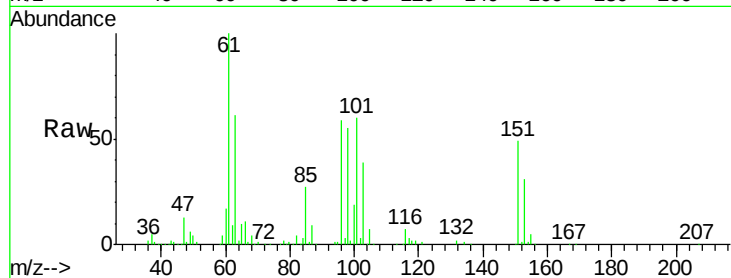
Tot Ion:101 Resp: 105526

Ion Ratio Lower Upper

101 100

85 44.1 35.5 53.3

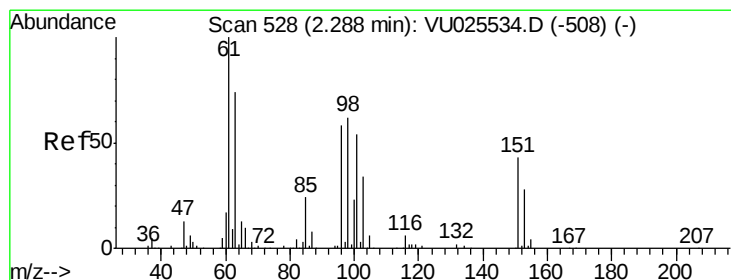
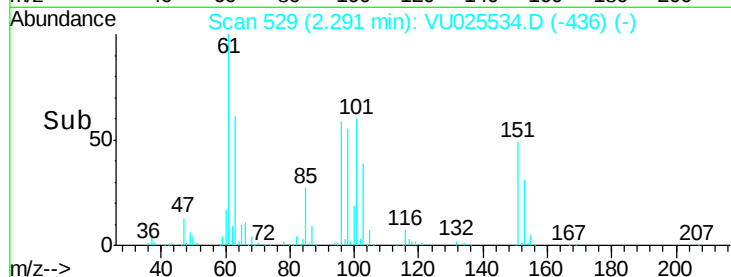
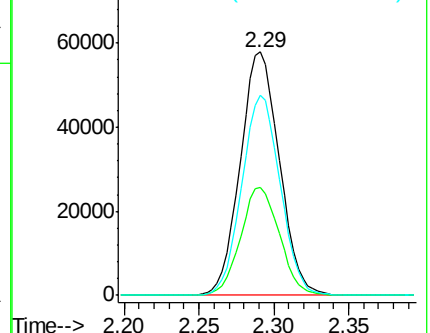
151 80.8 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.59 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

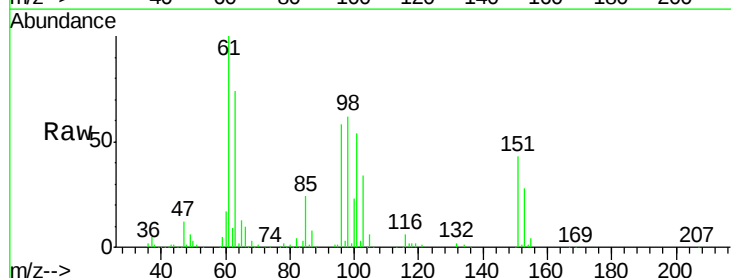
Tgt Ion: 96 Resp: 93384

Ion Ratio Lower Upper

96 100

61 171.7 122.5 227.5

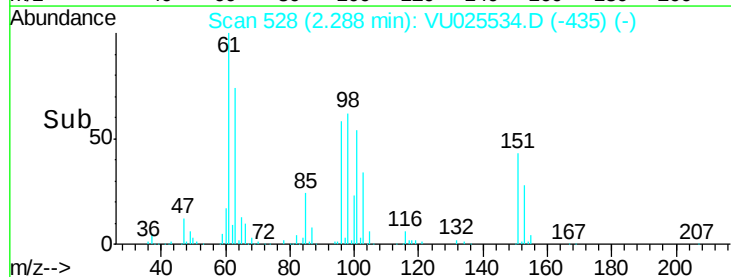
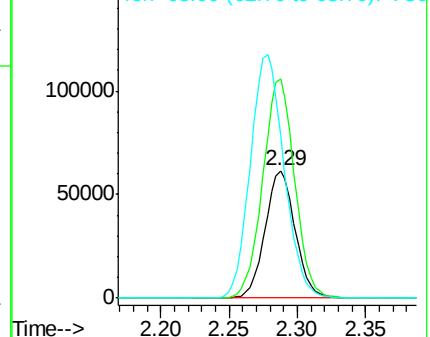
63 127.2 90.9 168.9

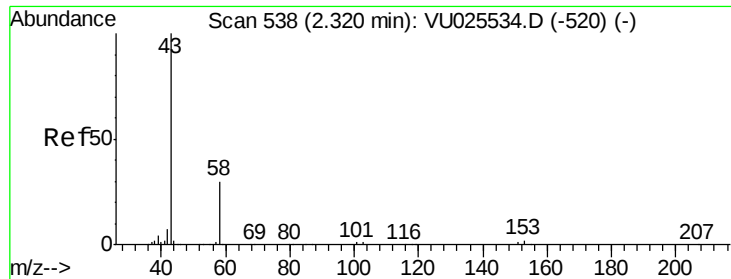


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 84.71 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

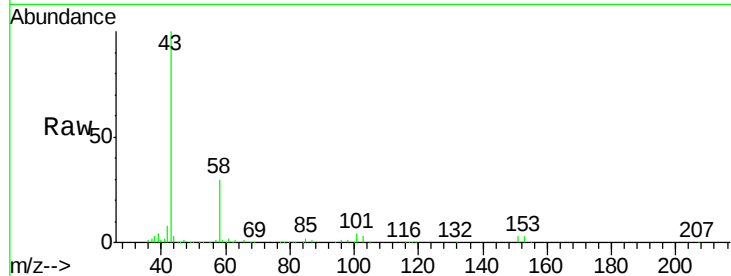
ClientSampleId :

Tot Ion: 43 Resp: 149245

Ion Ratio Lower Upper

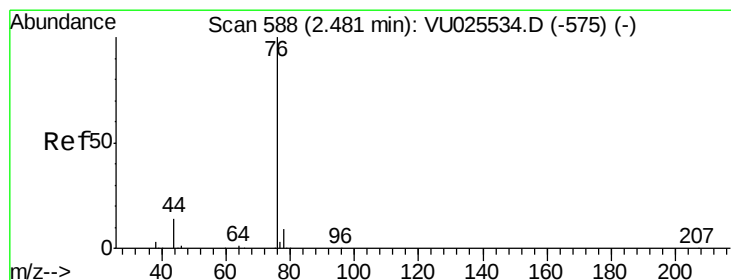
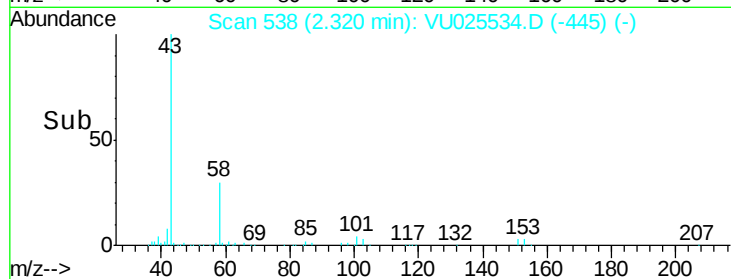
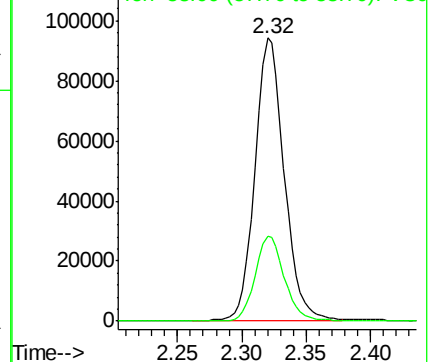
43 100

58 30.3 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 48.26 ug/L

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU025534.D

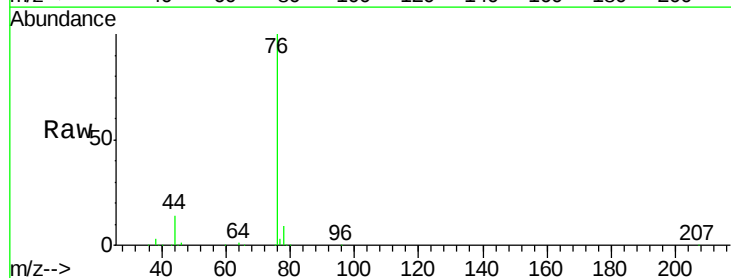
Acq: 20 Jul 2018 12:01

Tgt Ion: 76 Resp: 302018

Ion Ratio Lower Upper

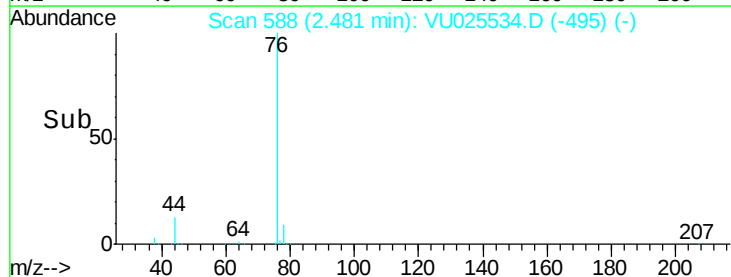
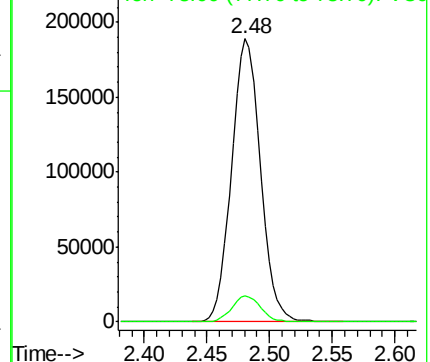
76 100

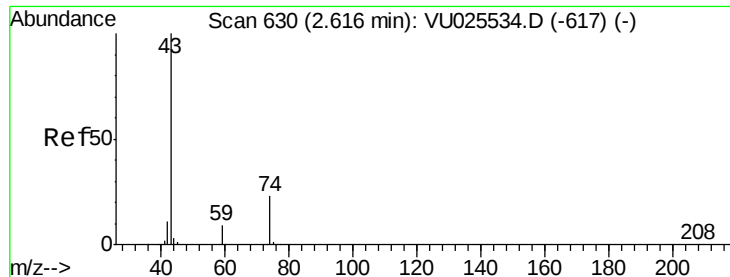
78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methvl Acetate

Concen: 49.86 ug/L

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

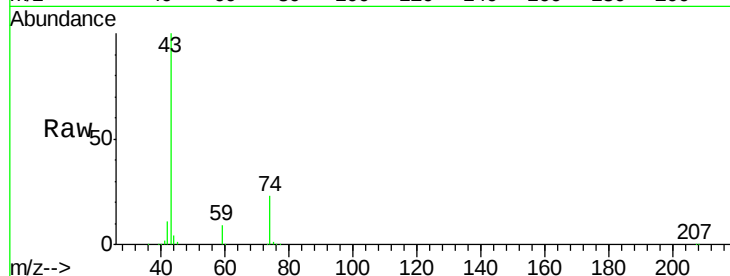
ClientSampleId :

Tot Ion: 43 Resp: 121433

Ion Ratio Lower Upper

43 100

74 23.3 18.3 27.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

80000

60000

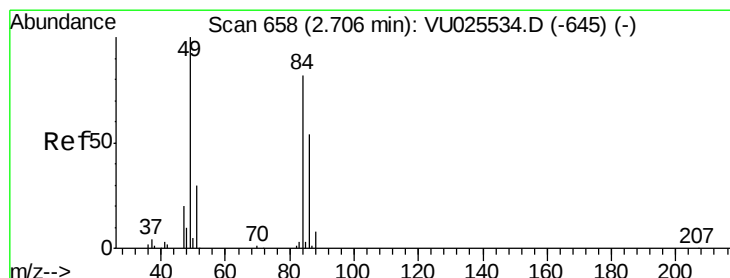
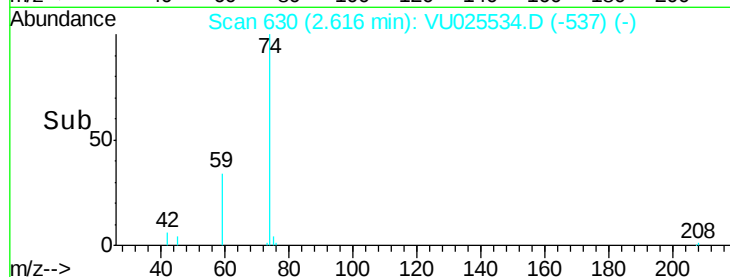
40000

20000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 49.01 ug/L

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

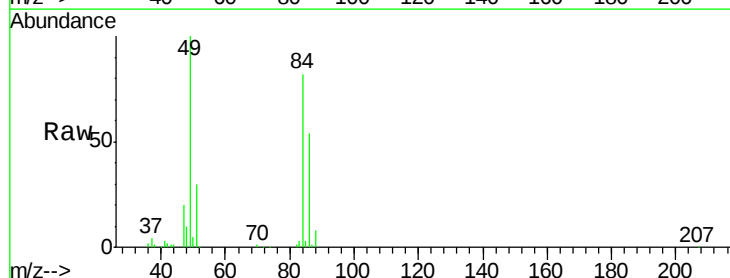
Tgt Ion: 84 Resp: 117335

Ion Ratio Lower Upper

84 100

86 66.4 45.6 84.6

49 122.0 87.0 161.6



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

100000

80000

60000

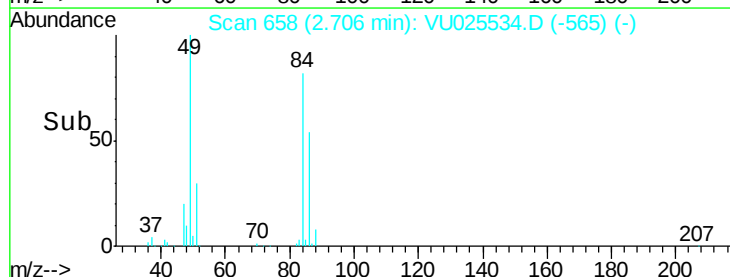
40000

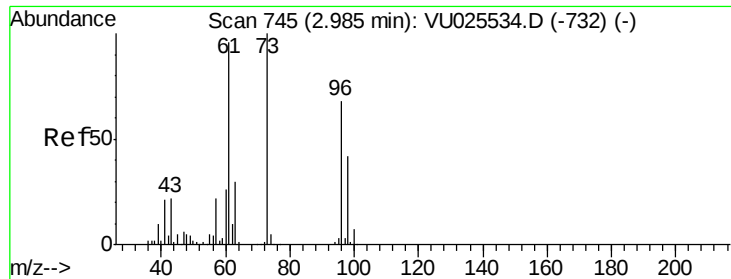
20000

0

Time-->

2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 47.69 ug/L

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

ClientSampleId :

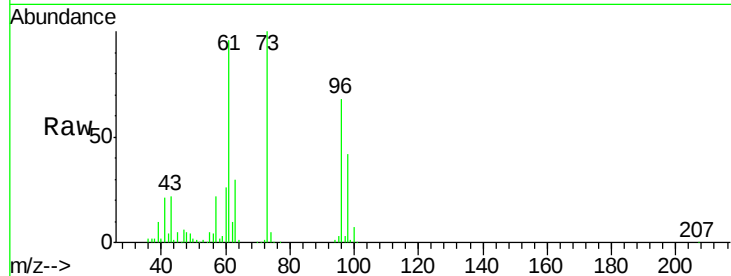
Tot Ion: 96 Resp: 105536

Ion Ratio Lower Upper

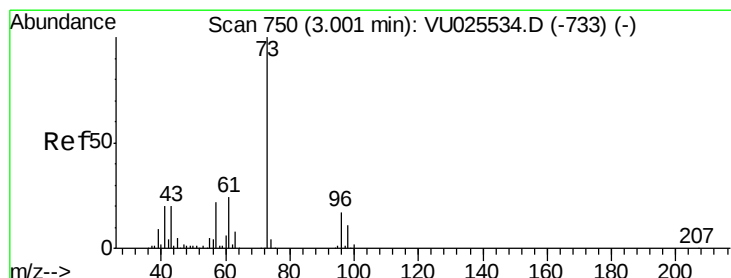
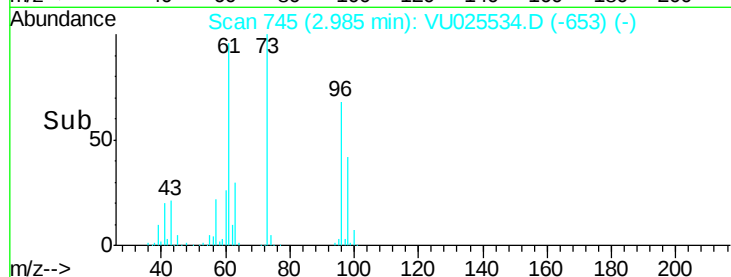
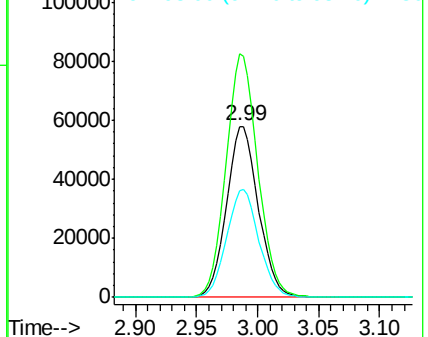
96 100

61 142.5 100.0 185.8

98 62.1 44.7 83.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 49.63 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

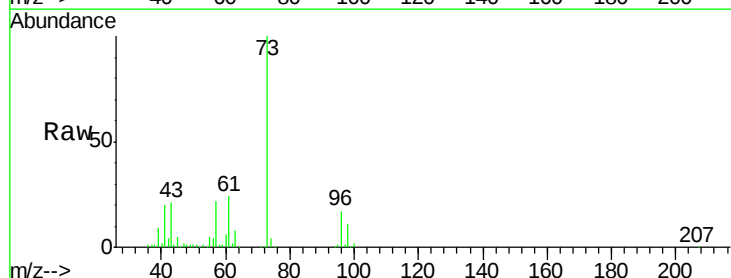
Tgt Ion: 73 Resp: 357660

Ion Ratio Lower Upper

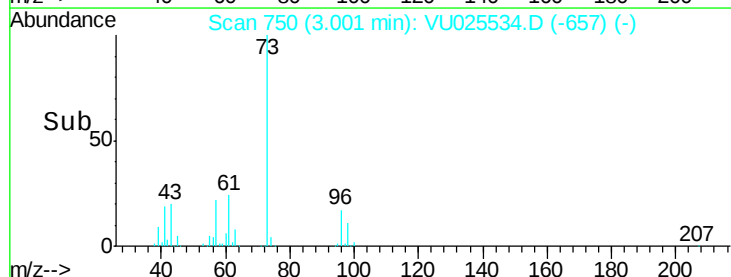
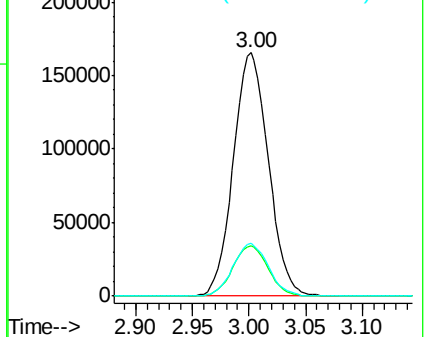
73 100

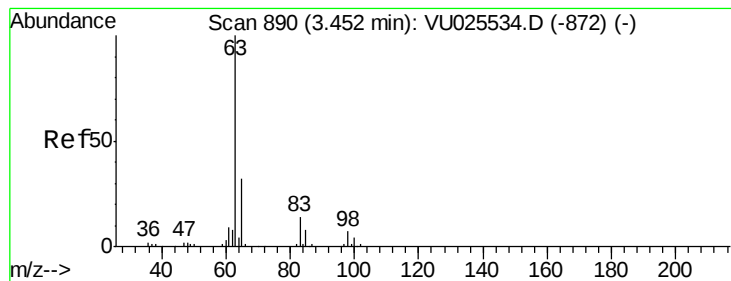
43 20.9 16.2 24.2

57 21.8 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 47.77 ug/L

RT: 3.45 min Scan# 890

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

ClientSampleId :

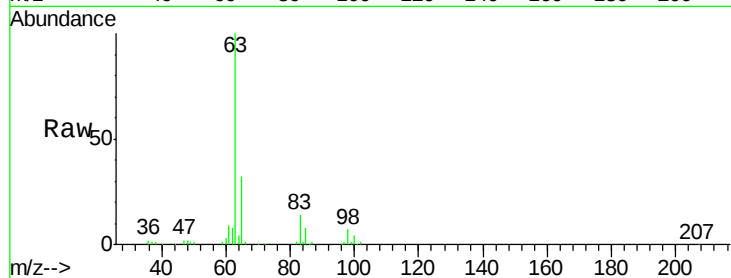
Tot Ion: 63 Resp: 201099

Ion Ratio Lower Upper

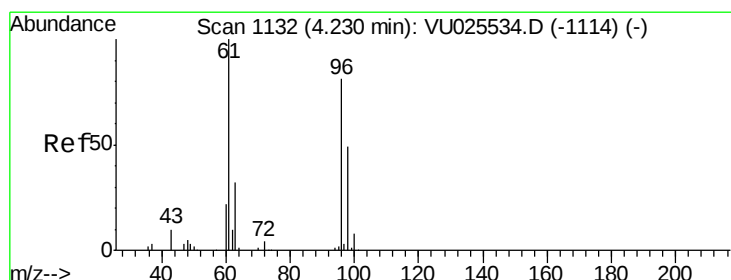
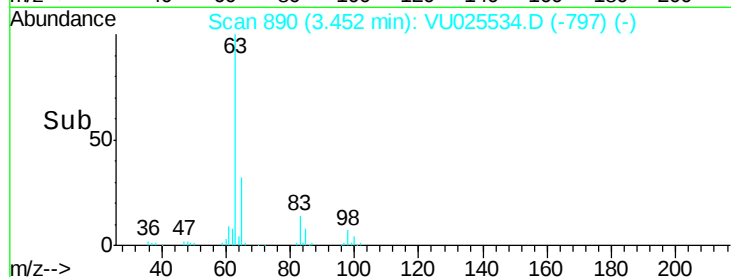
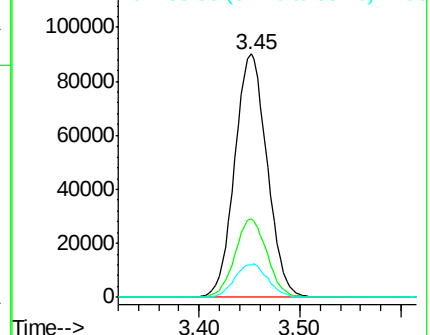
63 100

65 32.1 22.0 41.0

83 13.6 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 49.46 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

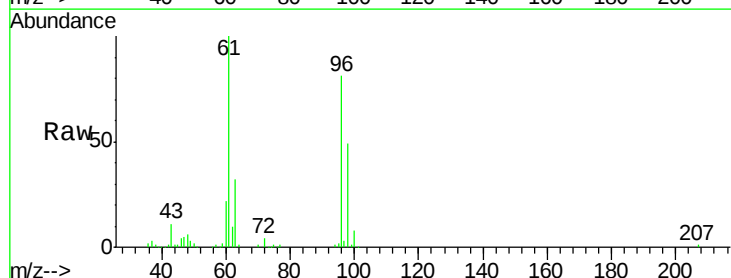
Tgt Ion: 96 Resp: 123551

Ion Ratio Lower Upper

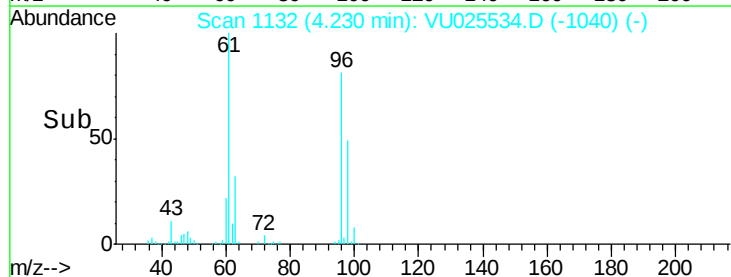
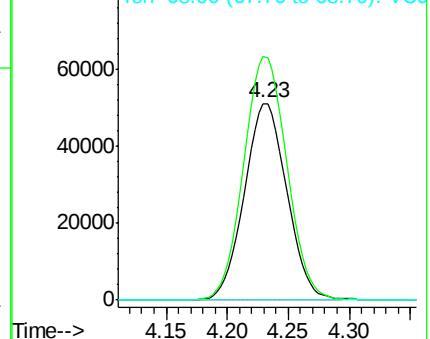
96 100

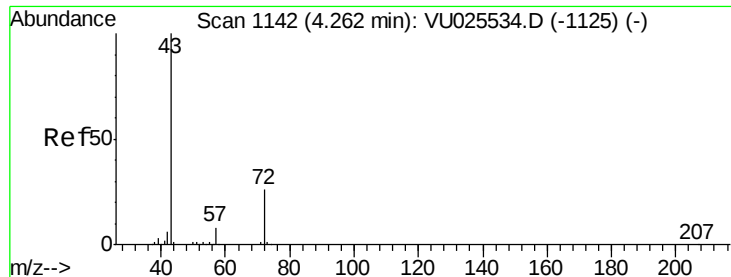
61 123.7 87.4 162.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 92.67 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

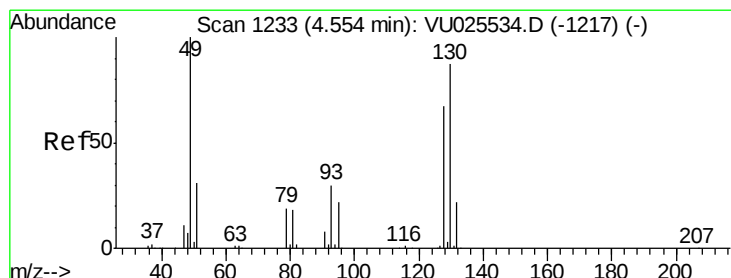
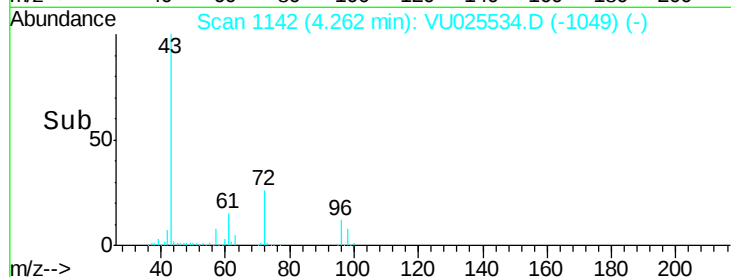
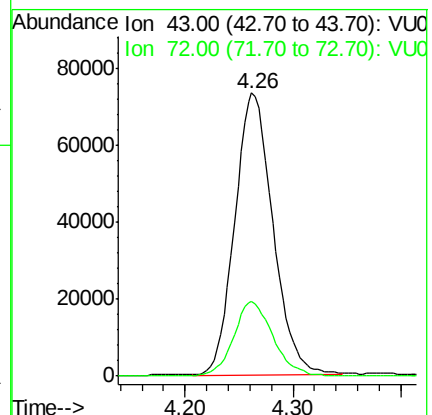
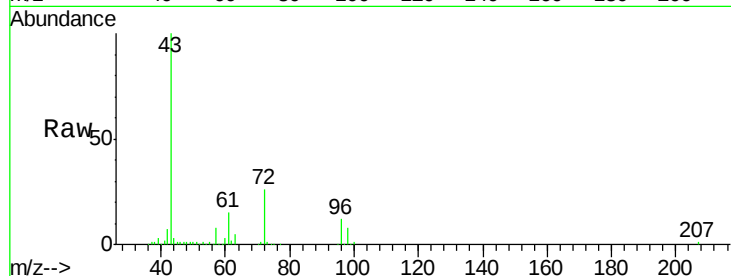
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 181756

Ion Ratio Lower Upper

43 100

72 27.2 13.6 40.8



#23

Bromochloromethane

Concen: 49.16 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Tgt Ion: 128 Resp: 64812

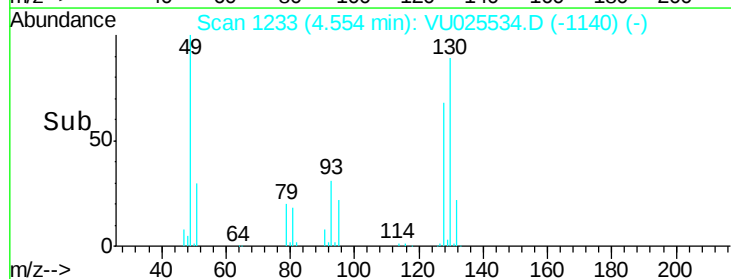
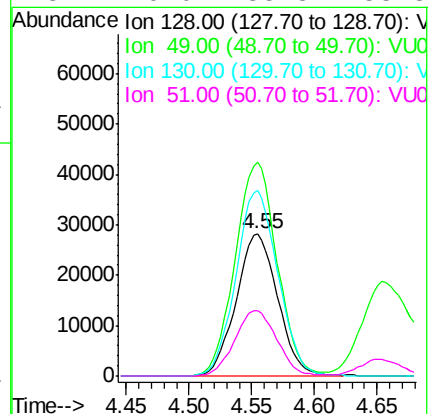
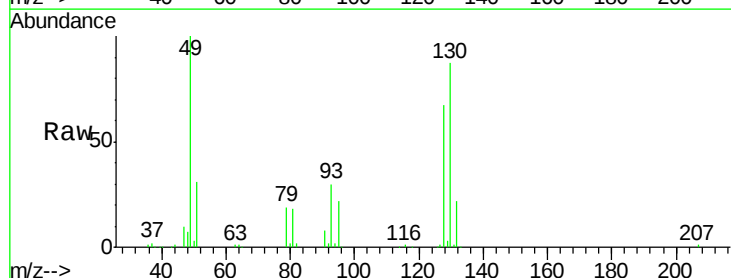
Ion Ratio Lower Upper

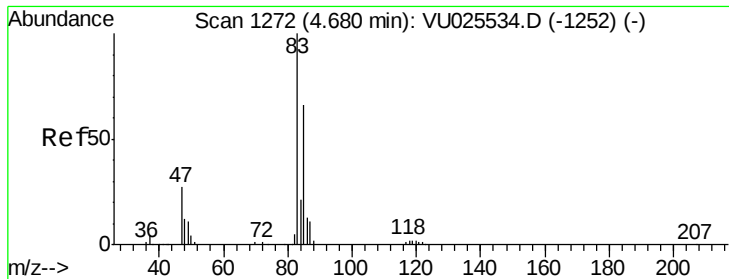
128 100

49 149.9 103.3 191.8

130 130.0 90.4 167.8

51 46.0 35.5 53.3





#25

Chloroform

Concen: 48.02 ug/L

RT: 4.68 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

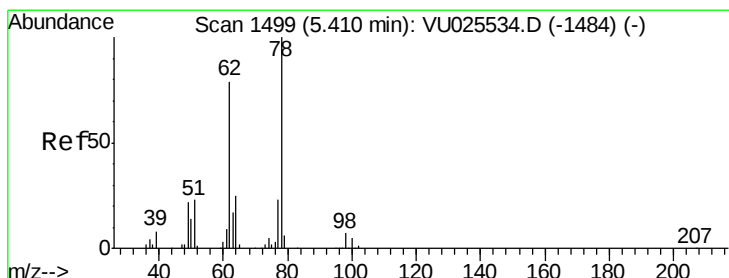
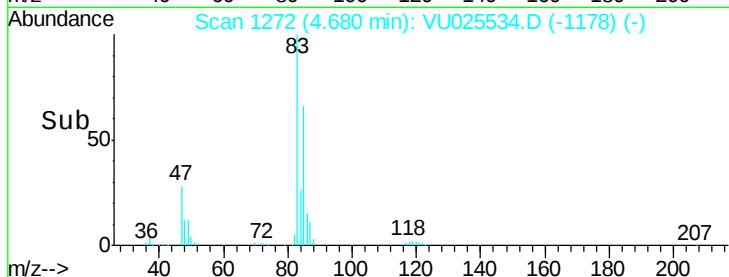
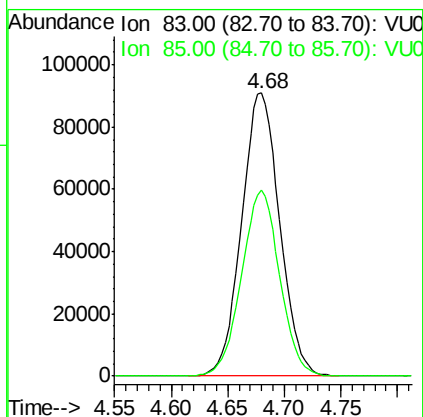
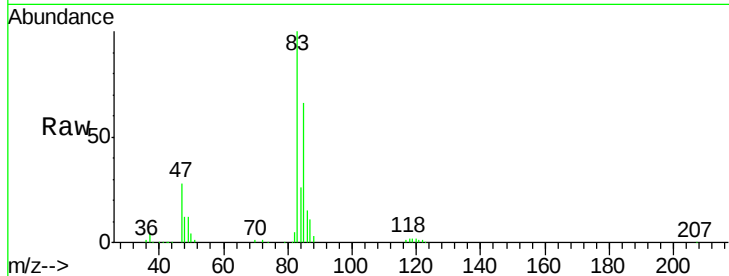
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 212721

Ion Ratio Lower Upper

83 100

85 65.7 45.0 83.6



#27

1,2-Dichloroethane

Concen: 48.70 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU025534.D

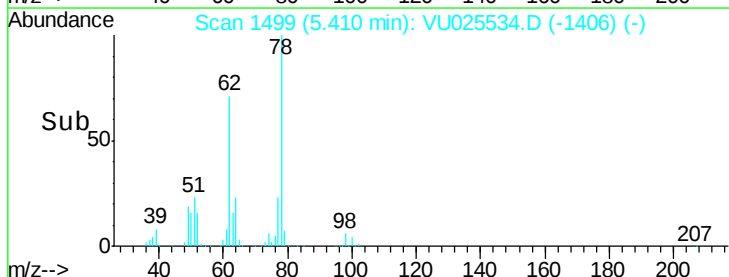
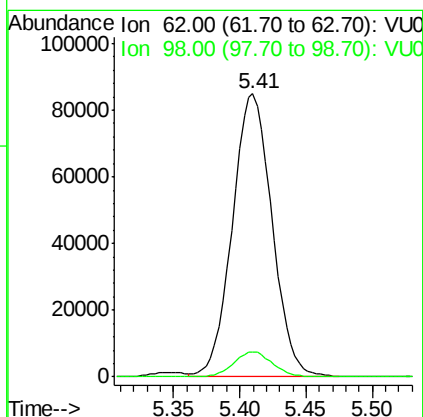
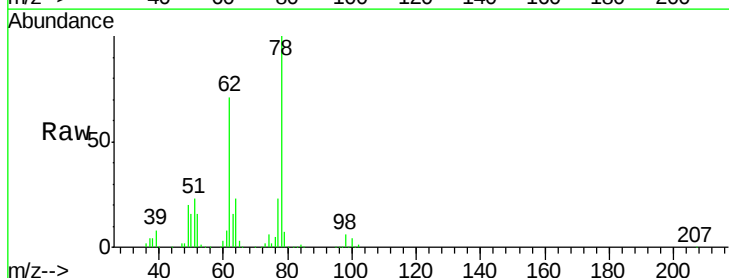
Acq: 20 Jul 2018 12:01

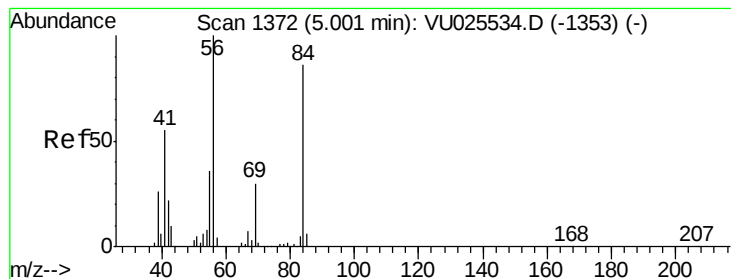
Tgt Ion: 62 Resp: 175971

Ion Ratio Lower Upper

62 100

98 9.0 6.5 9.7





#29

Cyclohexane

Concen: 48.64 ug/L

RT: 5.00 min Scan# 1372

Delta R.T. -0.00 min

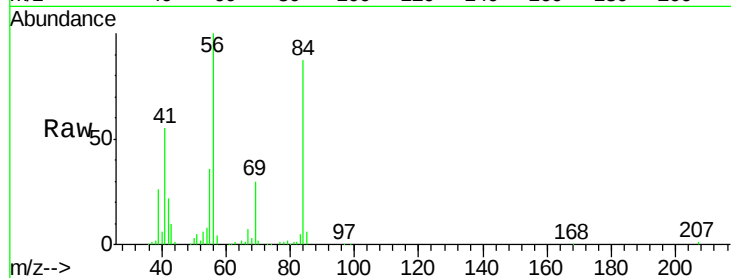
Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 181187

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.8	37.2
84	87.4	70.6	106.0

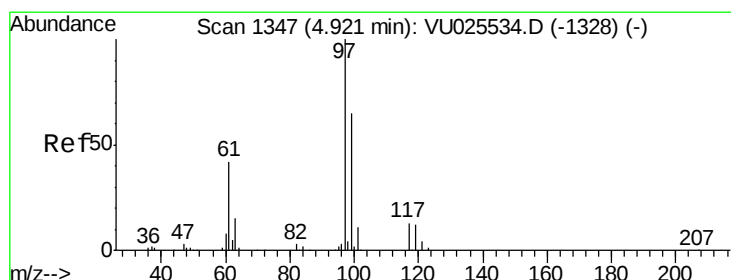
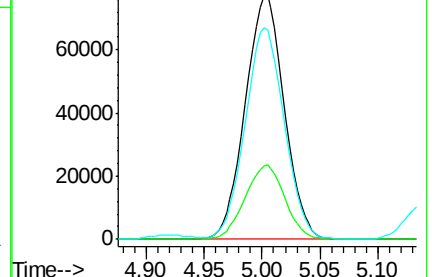
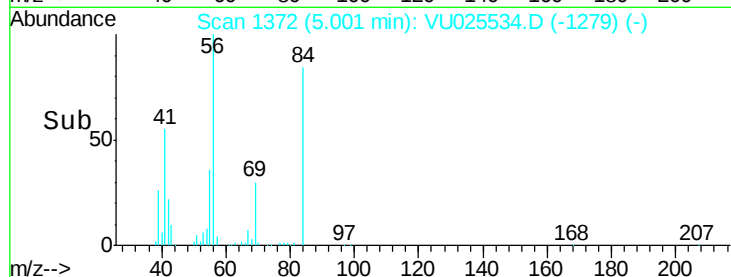


Abundance

Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 47.72 ug/L

RT: 4.92 min Scan# 1347

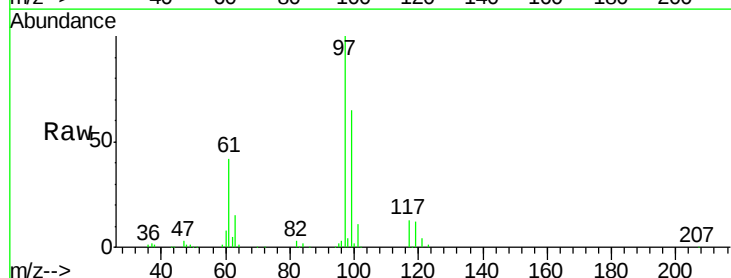
Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Tgt Ion: 97 Resp: 192021

Ion	Ratio	Lower	Upper
97	100		
99	64.2	52.4	78.6
61	43.1	34.6	52.0

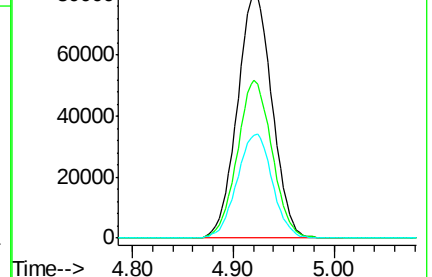
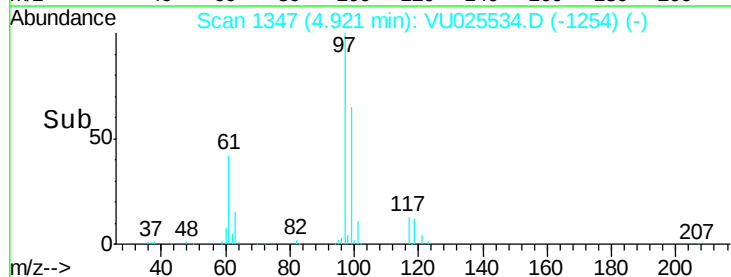


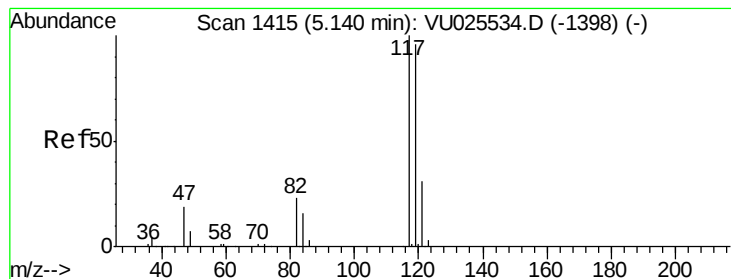
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 46.77 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

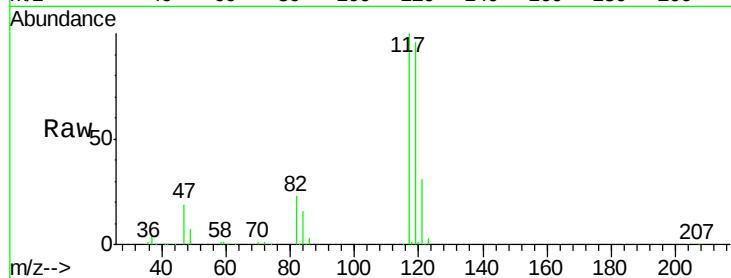
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 174006

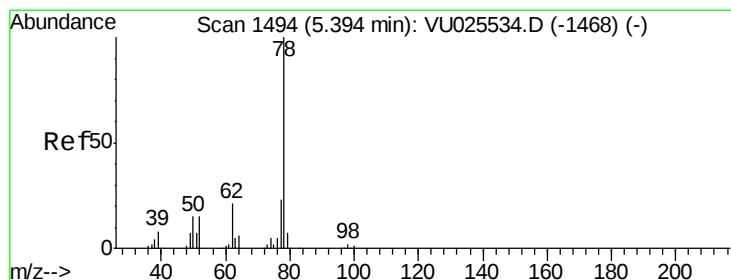
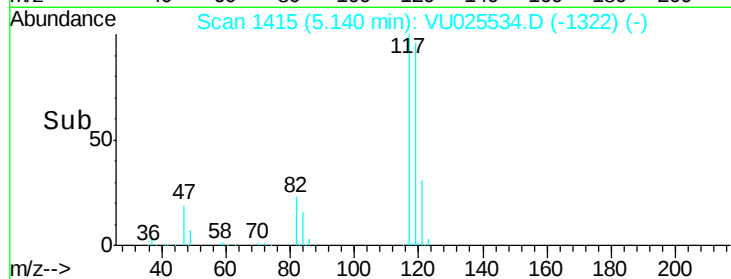
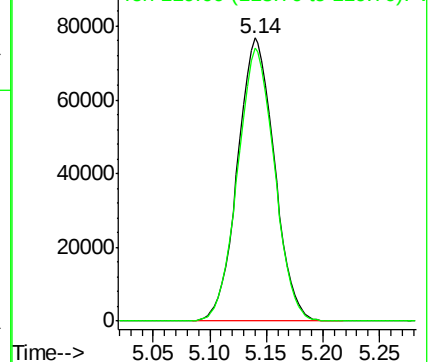
Ion Ratio Lower Upper

117 100

119 96.3 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.27 ug/L

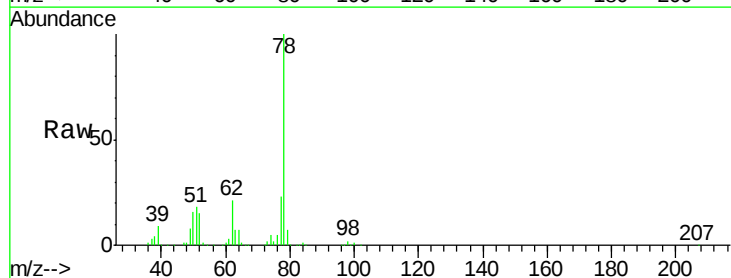
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

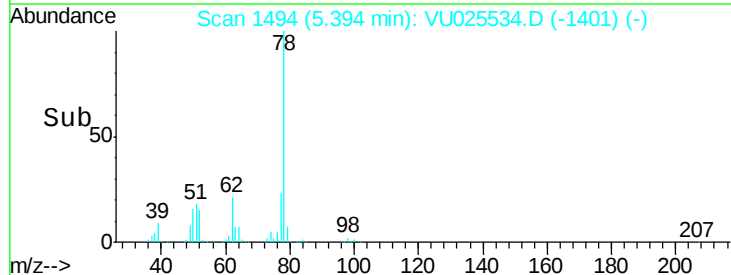
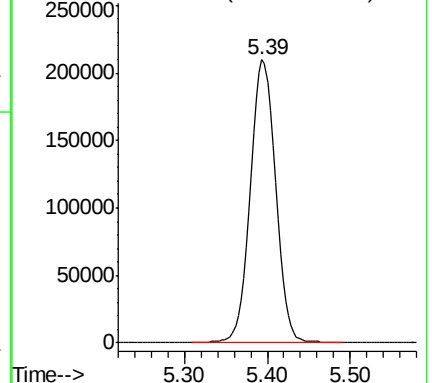
Lab File: VU025534.D

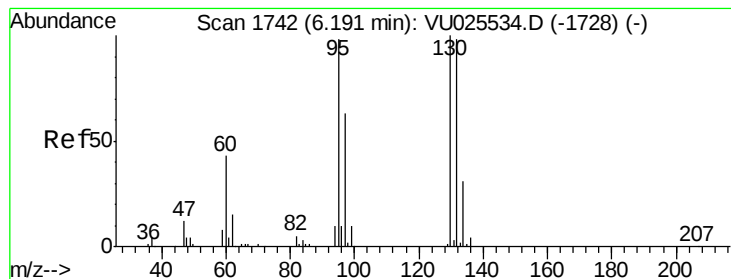
Acq: 20 Jul 2018 12:01

Tgt Ion: 78 Resp: 445936



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 48.28 ug/L

RT: 6.19 min Scan# 1742

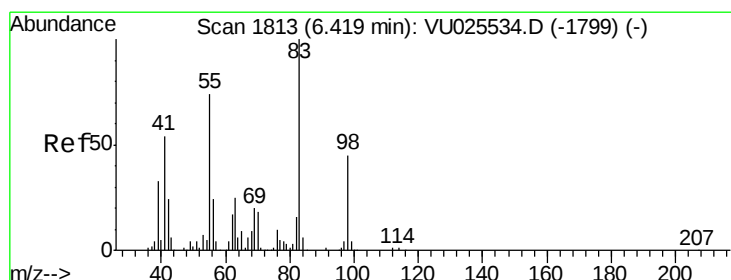
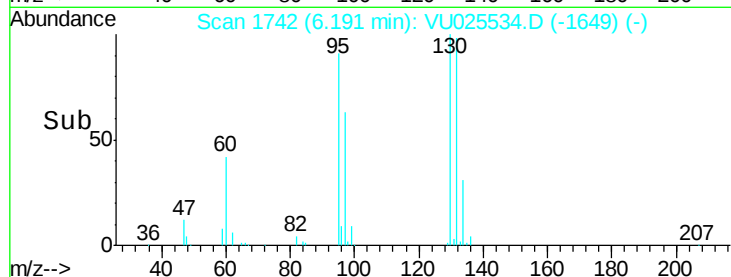
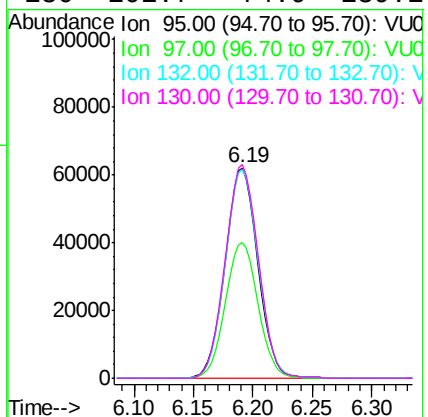
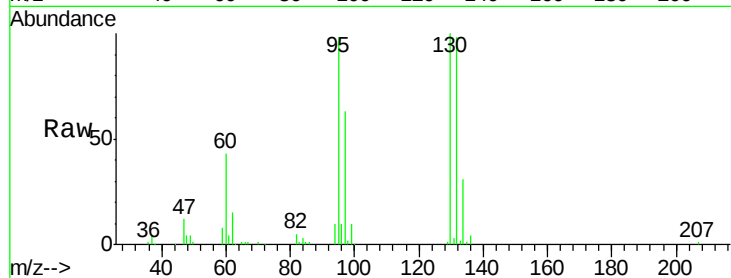
Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	95	Resp:	118350
Ion	Ratio	Lower	Upper
95	100		
97	64.5	45.9	85.3
132	99.4	72.2	134.2
130	101.7	74.9	139.1



#35

Methylcyclohexane

Concen: 49.60 ug/L

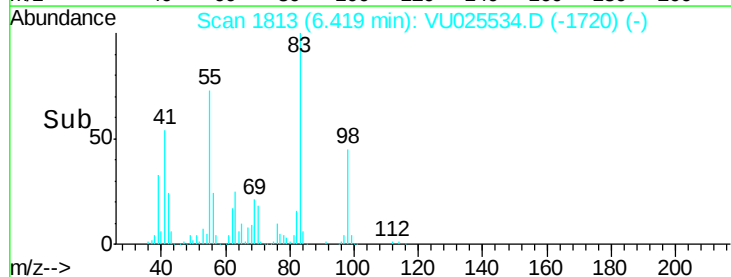
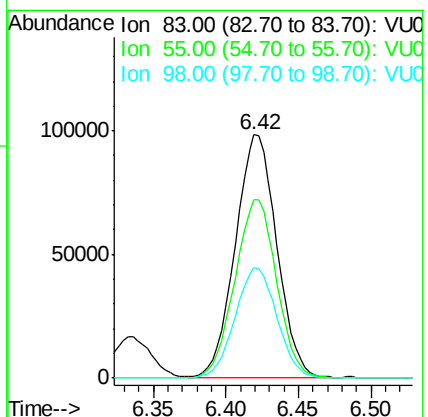
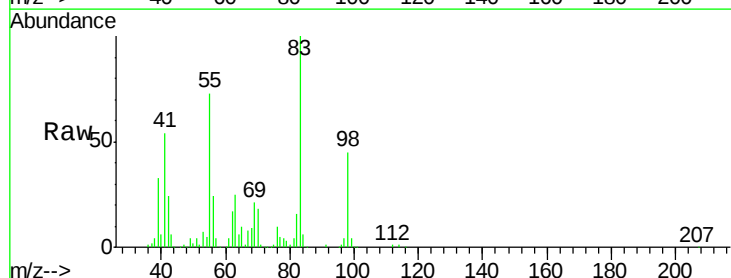
RT: 6.42 min Scan# 1813

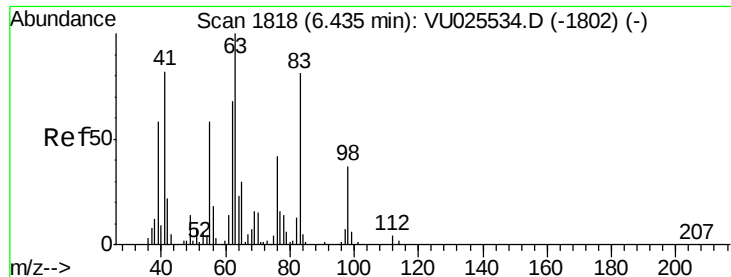
Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Tgt Ion:	83	Resp:	196031
Ion	Ratio	Lower	Upper
83	100		
55	73.9	61.1	91.7
98	45.7	38.6	57.8





#37

1,2-Dichloropropane

Concen: 49.14 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

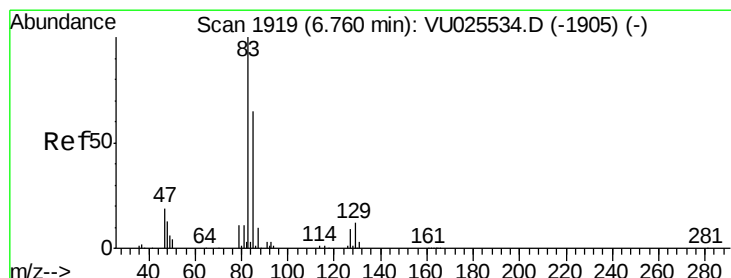
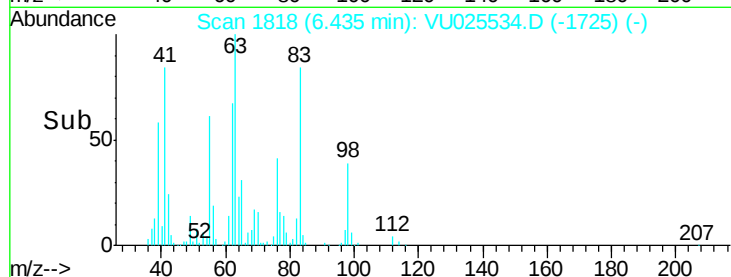
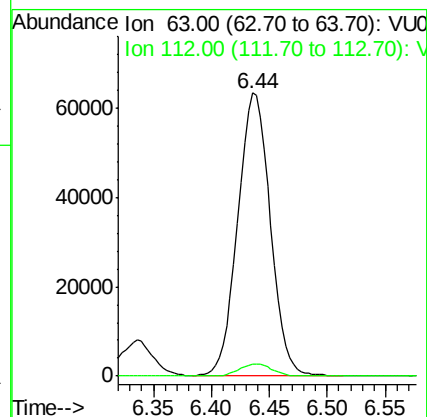
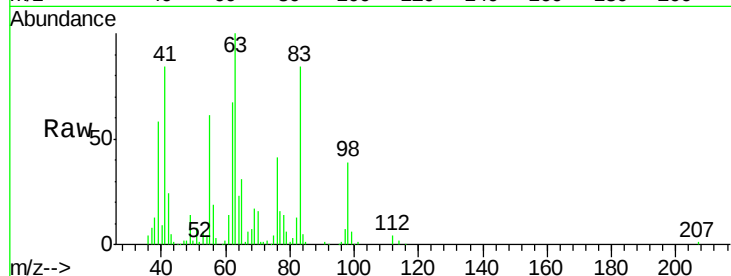
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 124065

Ion Ratio Lower Upper

63 100

112 4.2 3.3 4.9



#38

Bromodichloromethane

Concen: 48.70 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

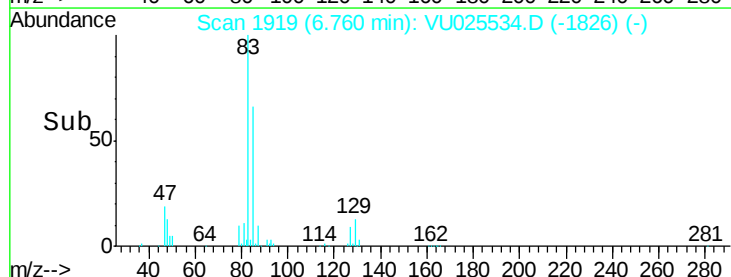
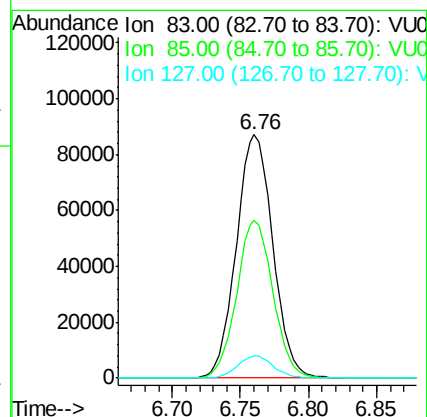
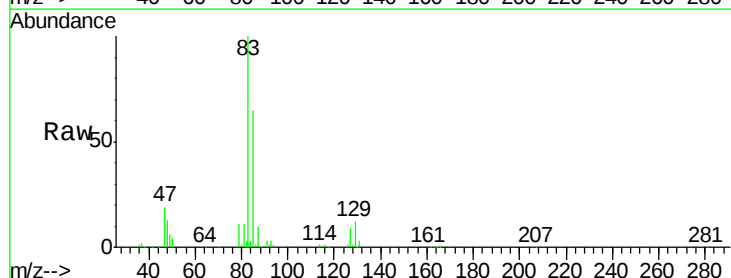
Tgt Ion: 83 Resp: 162111

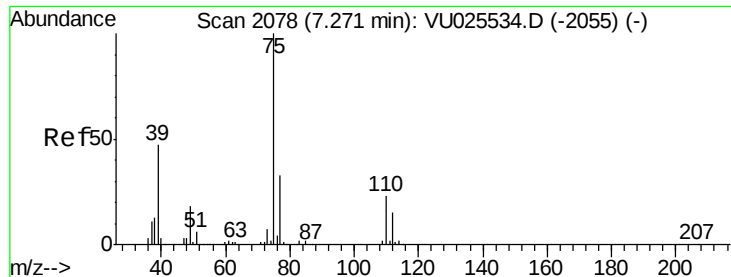
Ion Ratio Lower Upper

83 100

85 65.0 46.7 86.7

127 9.1 8.0 12.0

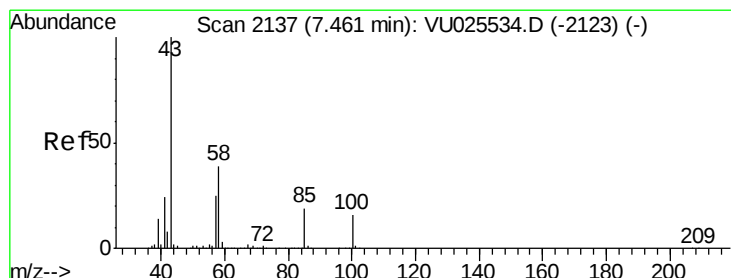
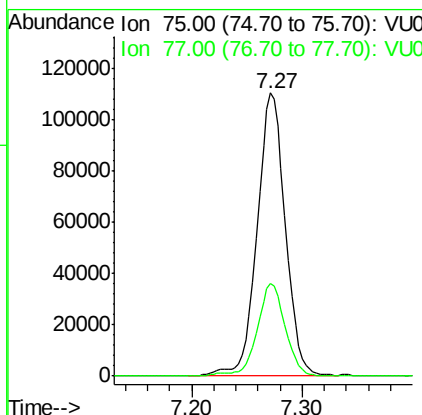
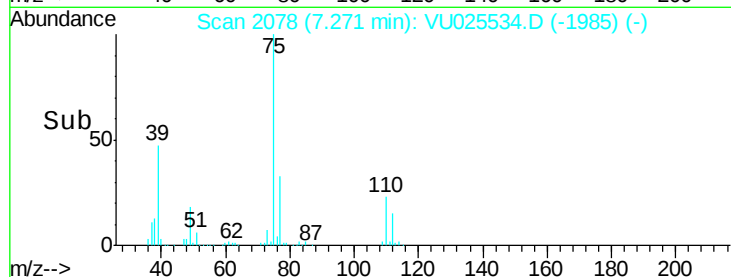
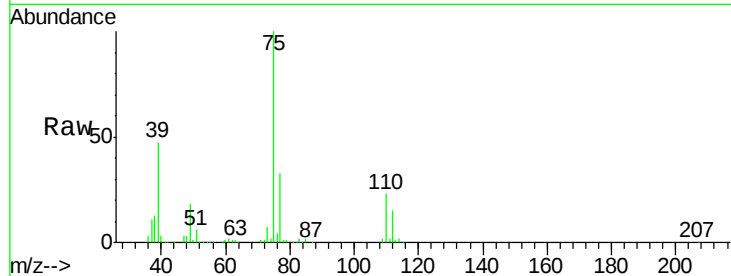




#39
 cis-1,3-Dichloropropene
 Concen: 50.00 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

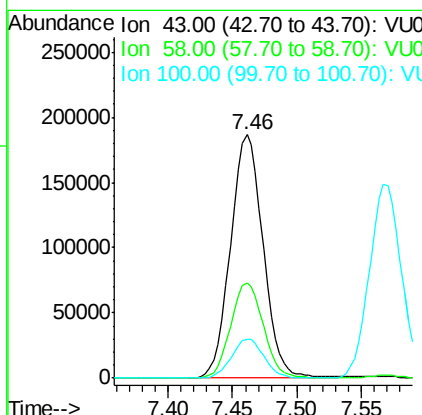
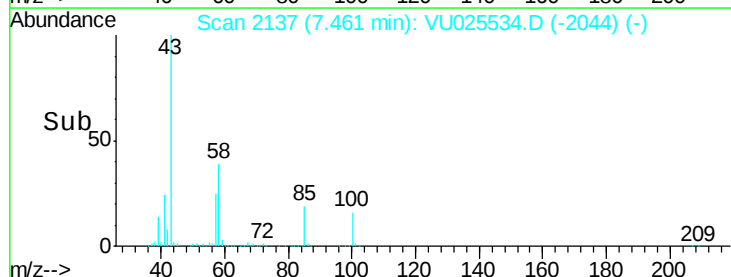
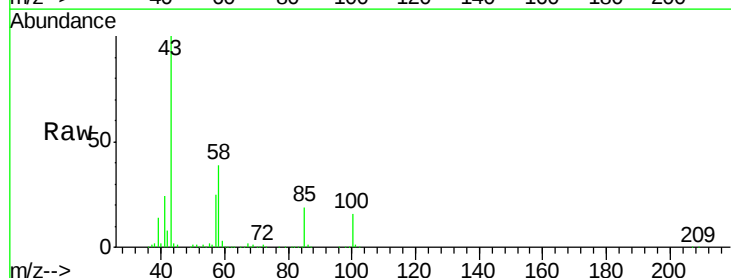
Instrument :
 MSVOA_U
 ClientSampleId :

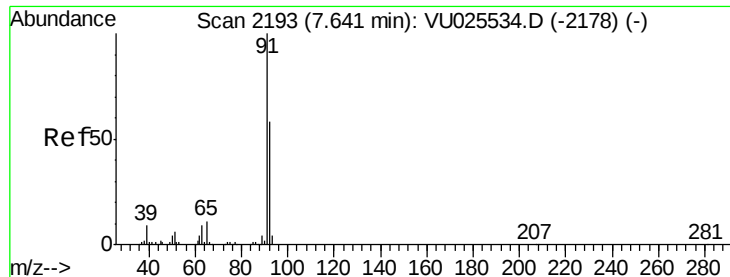
Tot Ion: 75 Resp: 195900
 Ion Ratio Lower Upper
 75 100
 77 32.8 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 99.01 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

Tgt Ion: 43 Resp: 328267
 Ion Ratio Lower Upper
 43 100
 58 39.3 30.8 46.2
 100 15.9 12.1 18.1





#42

Toluene

Concen: 48.36 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

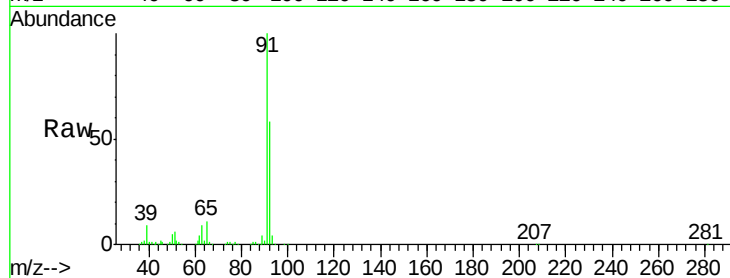
ClientSampled :

Tot Ion: 91 Resp: 481804

Ion Ratio Lower Upper

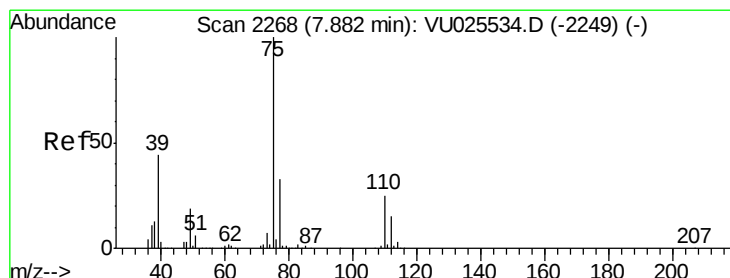
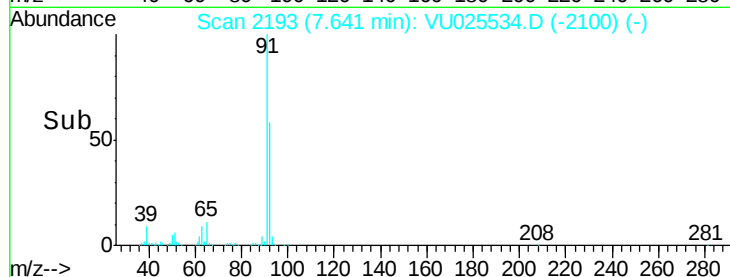
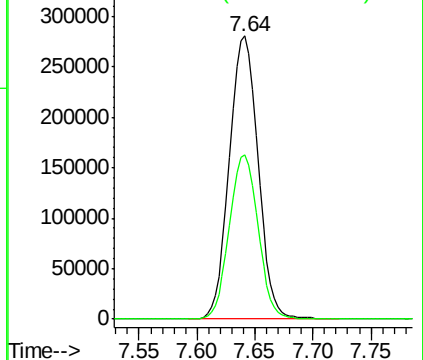
91 100

92 58.1 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 49.37 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025534.D

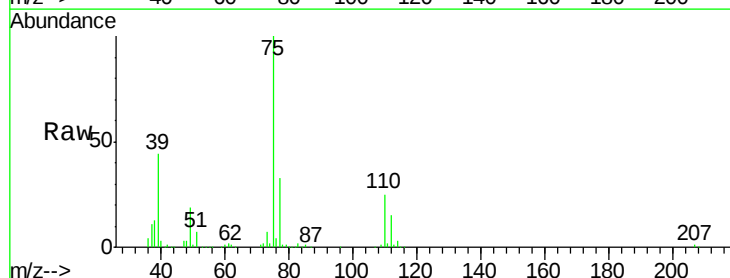
Acq: 20 Jul 2018 12:01

Tgt Ion: 75 Resp: 182367

Ion Ratio Lower Upper

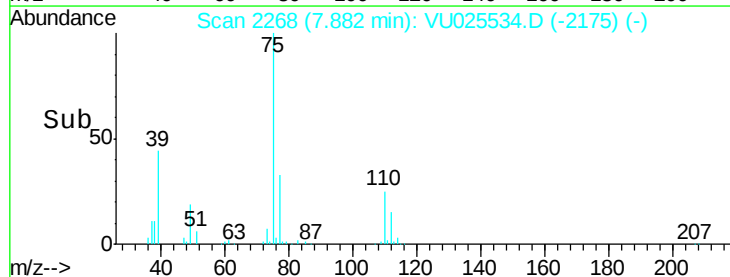
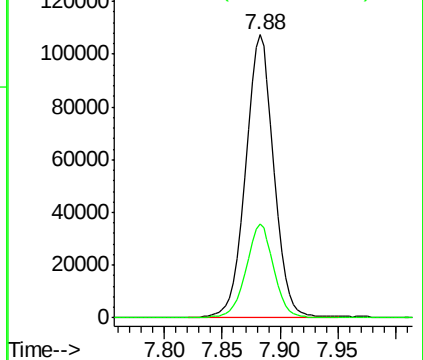
75 100

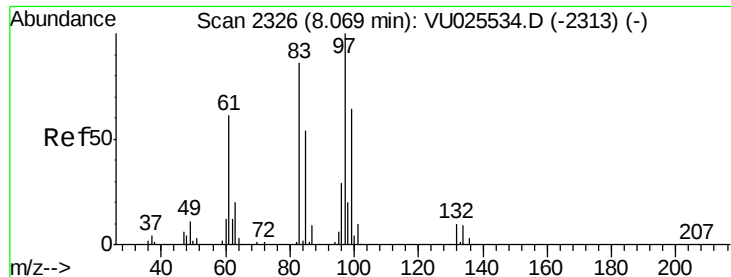
77 33.3 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

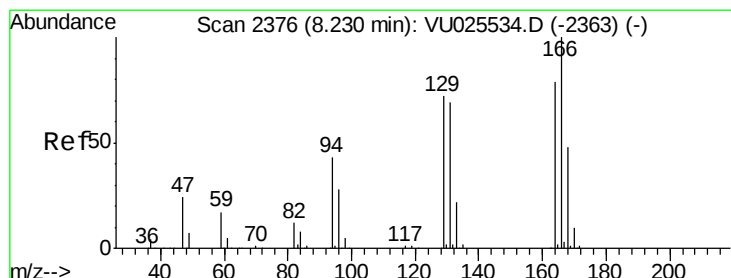
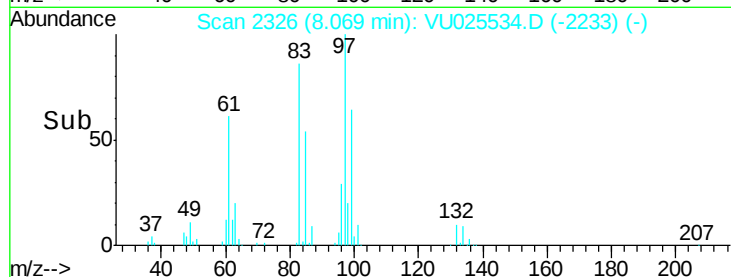
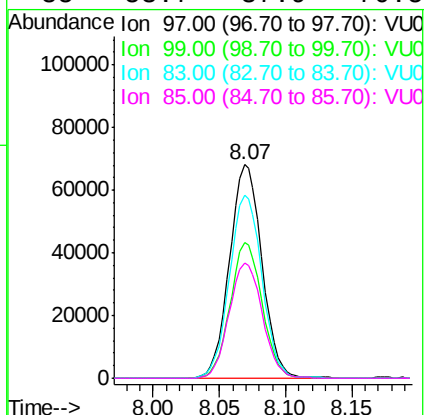
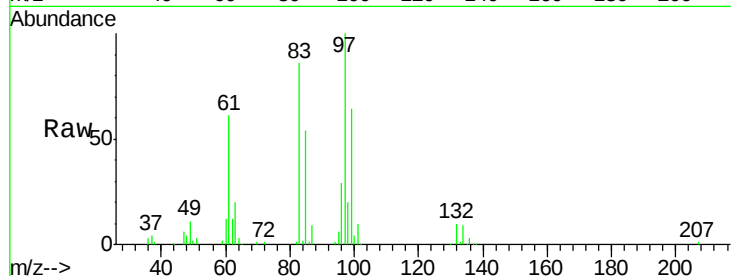




#45
1,1,2-Trichloroethane
Concen: 47.77 ug/L
RT: 8.07 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

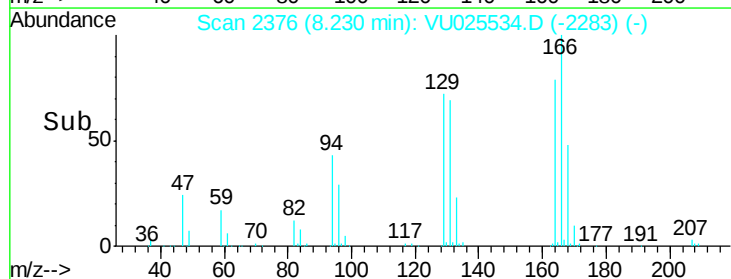
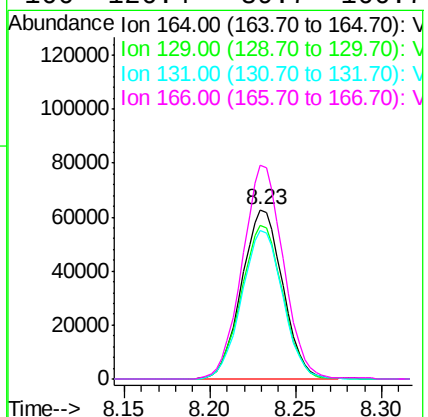
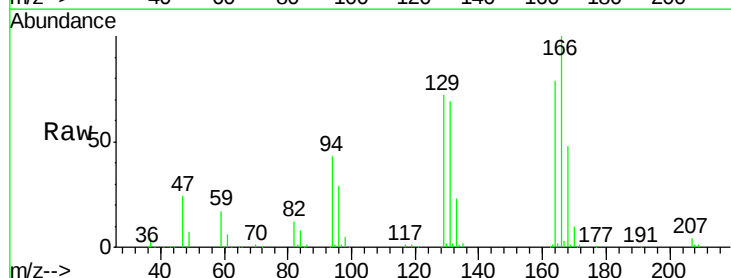
Instrument :
MSVOA_U
ClientSampled :

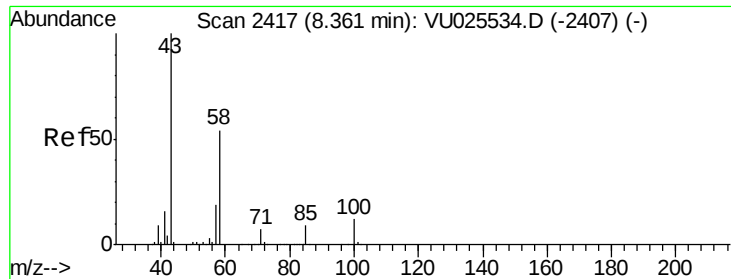
Tot Ion:	97	Resp:	115691
Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.3	82.3
83	85.5	59.8	111.1
85	53.7	37.9	70.5



#46
Tetrachloroethene
Concen: 49.01 ug/L
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

Tgt Ion:	164	Resp:	104144
Ion	Ratio	Lower	Upper
164	100		
129	91.1	65.1	120.9
131	87.6	62.8	116.6
166	126.4	89.7	166.7

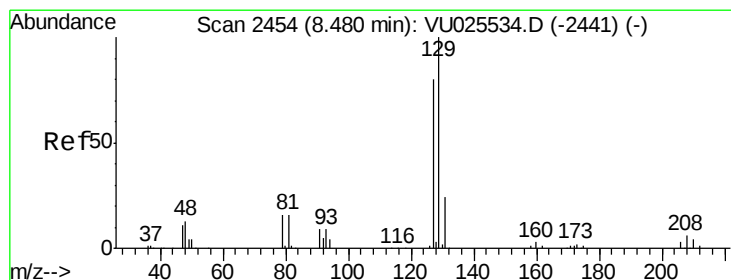
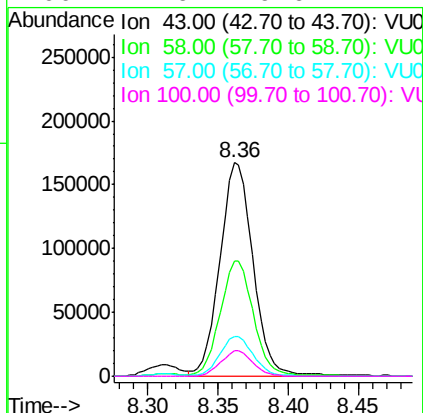
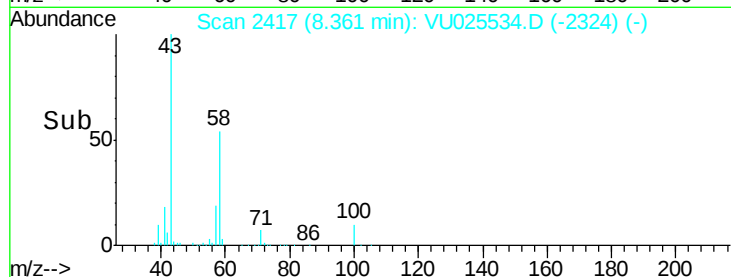
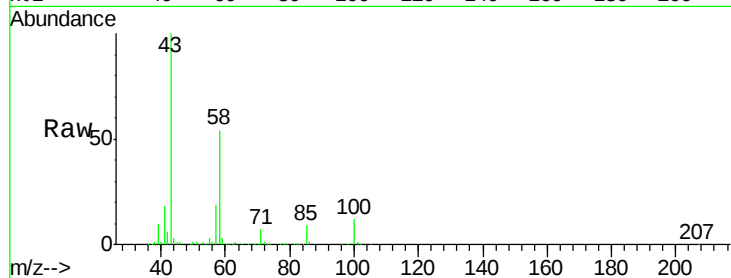




#48
2-Hexanone
Concen: 97.95 ug/L
RT: 8.36 min Scan# 2417
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

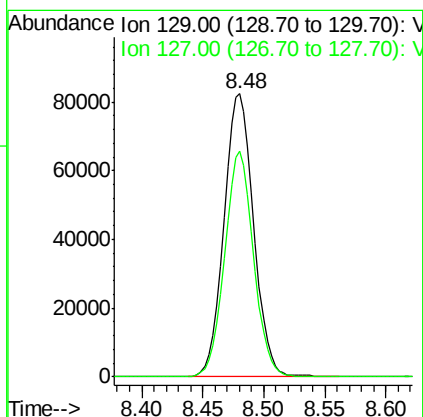
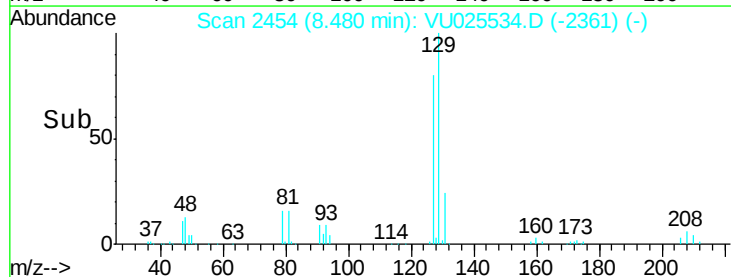
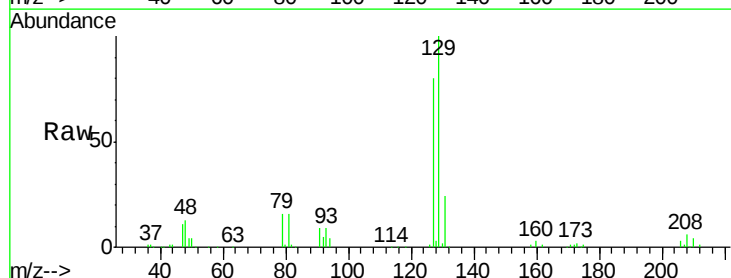
Instrument :
MSVOA_U
ClientSampled :

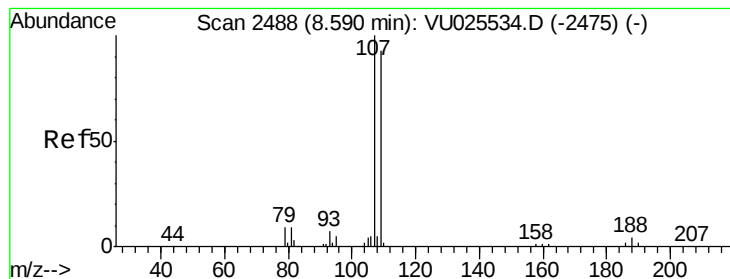
Tot Ion: 43 Resp: 274394
Ion Ratio Lower Upper
43 100
58 53.8 42.9 64.3
57 18.6 15.4 23.2
100 11.6 9.6 14.4



#49
Dibromochloromethane
Concen: 49.45 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

Tgt Ion: 129 Resp: 140481
Ion Ratio Lower Upper
129 100
127 79.6 53.8 100.0





#50

1,2-Dibromoethane

Concen: 48.45 ug/L

RT: 8.59 min Scan# 2488

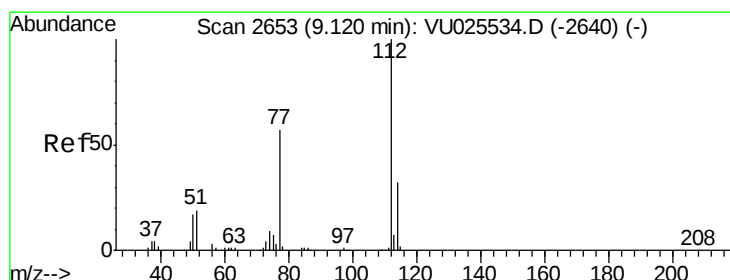
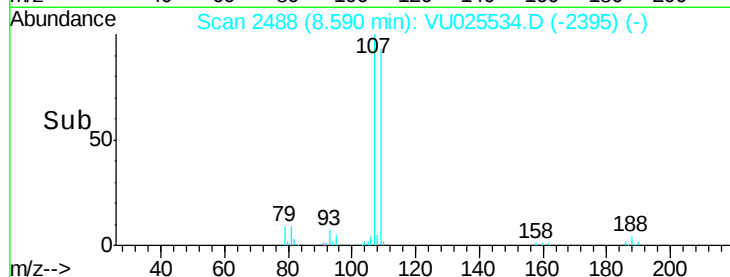
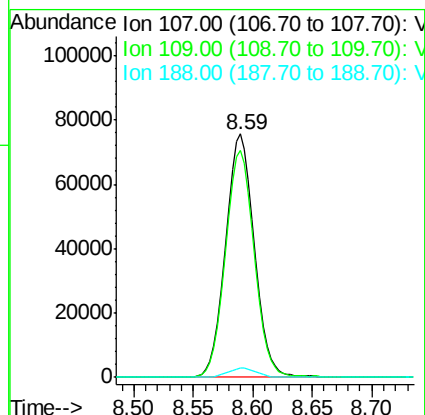
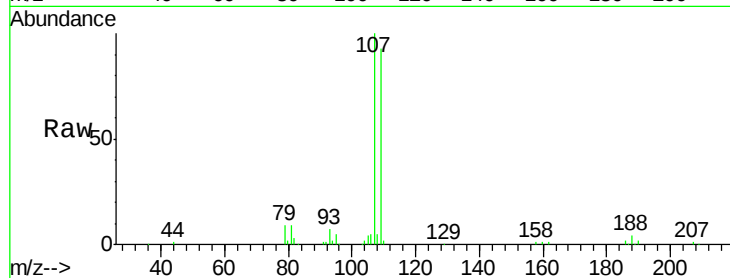
Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	107	Resp:	126401
Ion	Ratio	Lower	Upper
107	100		
109	93.0	66.6	123.8
188	3.9	3.2	4.8



#51

Chlorobenzene

Concen: 47.80 ug/L

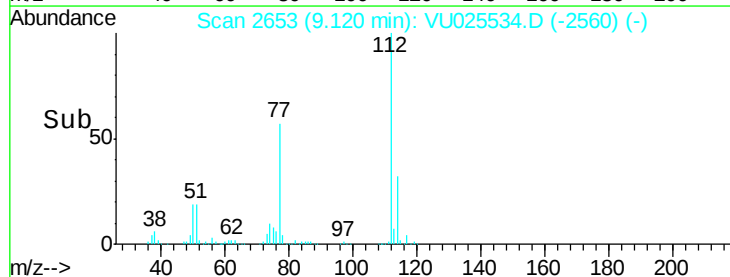
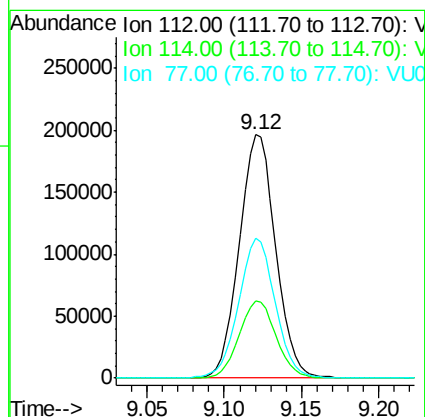
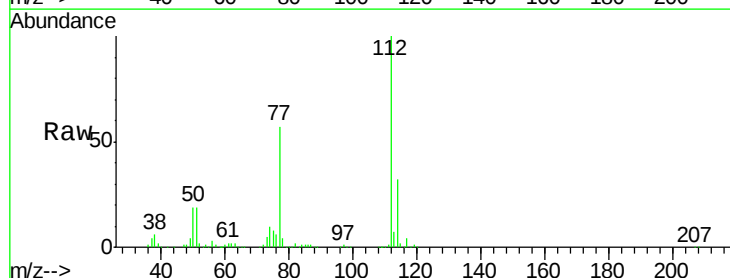
RT: 9.12 min Scan# 2653

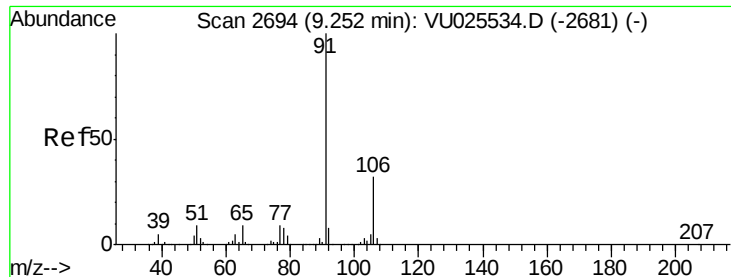
Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Tgt Ion:	112	Resp:	320644
Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.9
77	57.2	45.8	68.8





#52

Ethylbenzene

Concen: 49.38 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

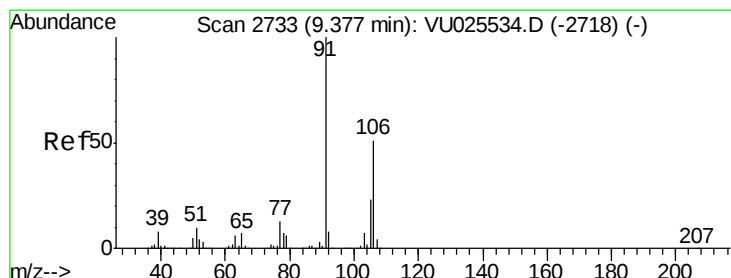
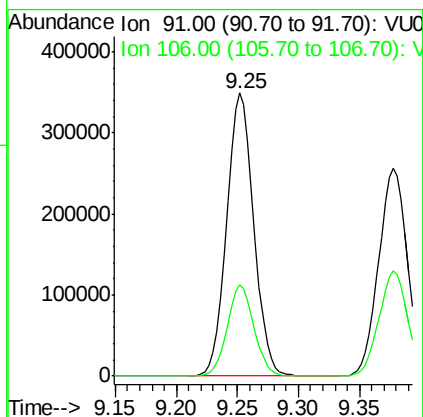
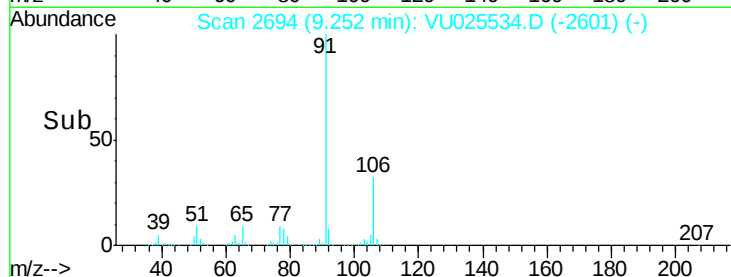
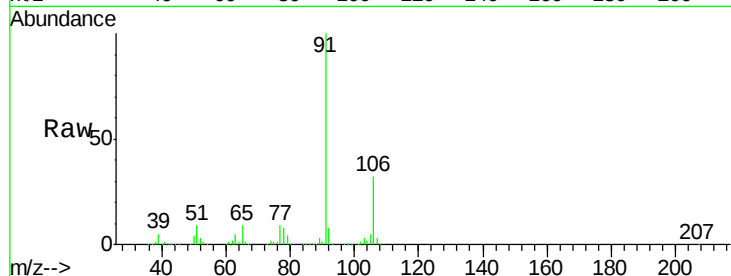
ClientSampleId :

Tot Ion: 91 Resp: 543042

Ion Ratio Lower Upper

91 100

106 32.4 22.3 41.5



#53

m,p-Xylene

Concen: 50.10 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025534.D

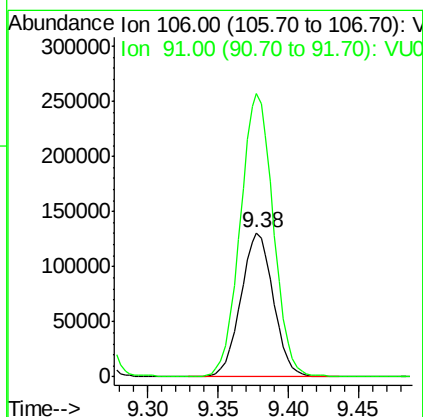
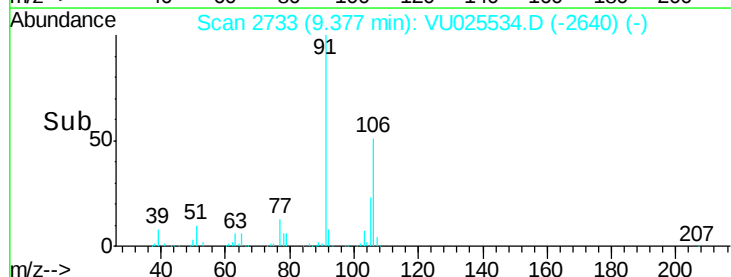
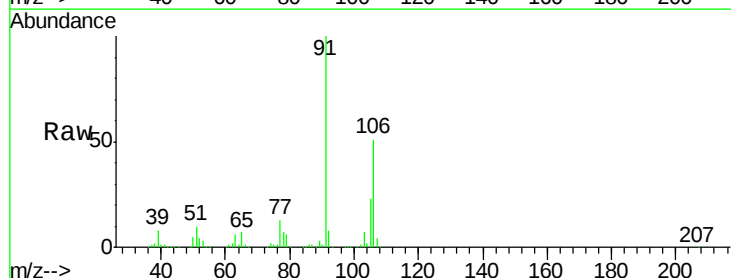
Acq: 20 Jul 2018 12:01

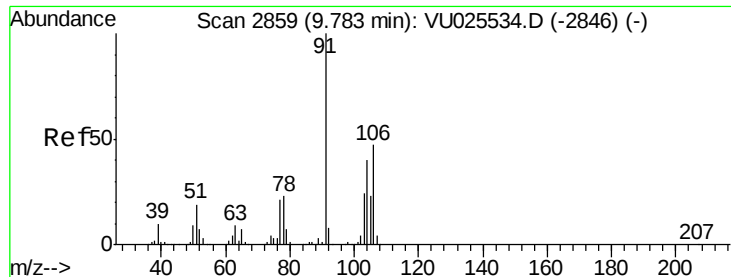
Tgt Ion: 106 Resp: 211012

Ion Ratio Lower Upper

106 100

91 196.5 141.7 263.3





#54

o-xylene

Concen: 48.73 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

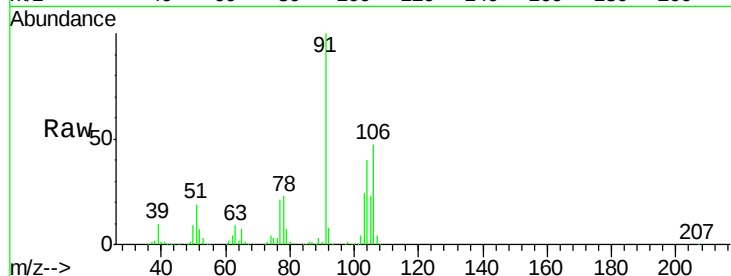
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 208272

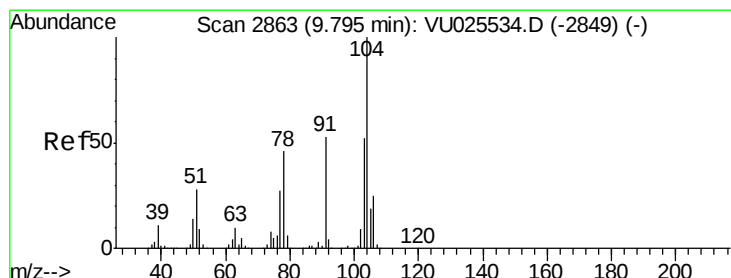
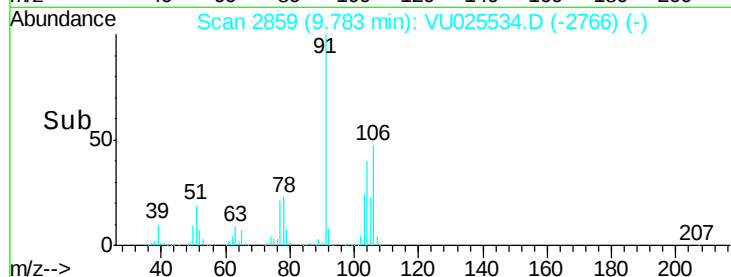
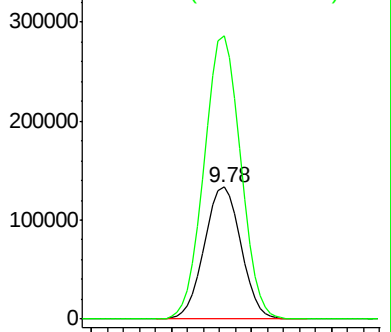
Ion Ratio Lower Upper

106 100

91 214.3 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 50.39 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU025534.D

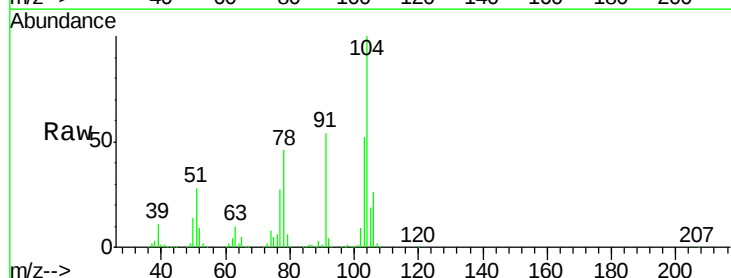
Acq: 20 Jul 2018 12:01

Tgt Ion:104 Resp: 350756

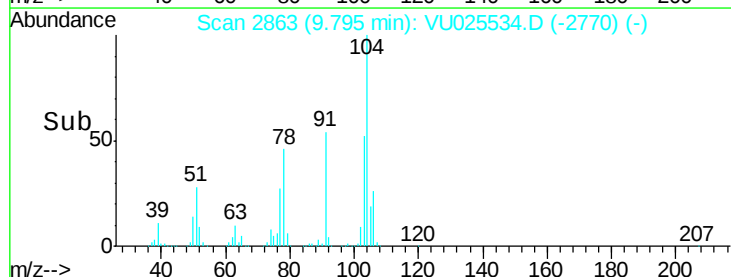
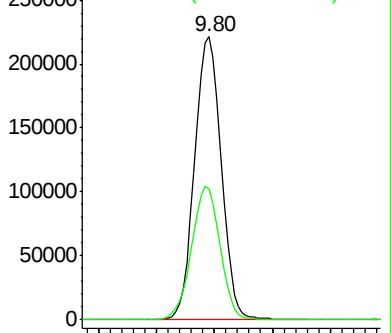
Ion Ratio Lower Upper

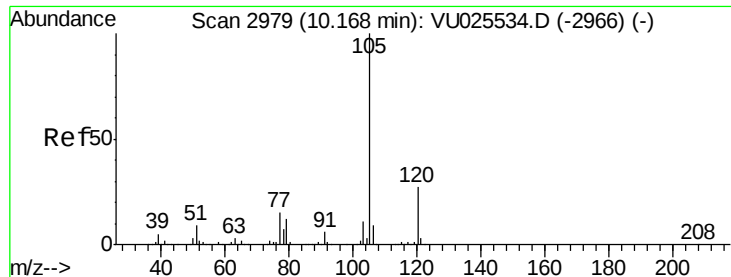
104 100

78 46.3 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V





#56

Isopropylbenzene

Concen: 49.53 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

ClientSampleId :

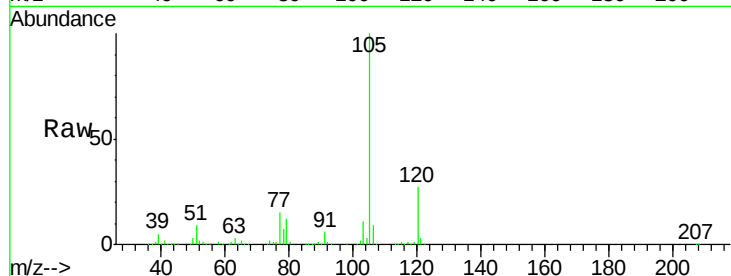
Tot Ion:105 Resp: 546337

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

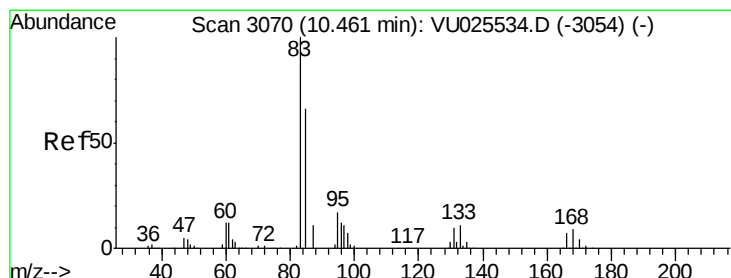
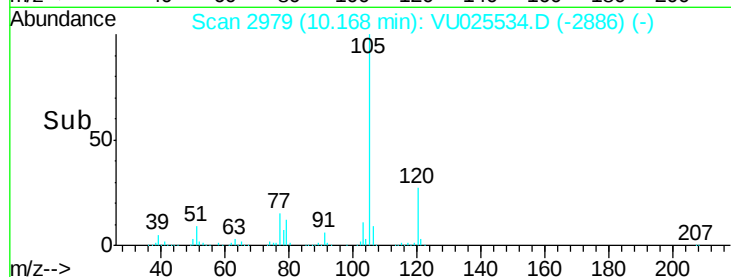
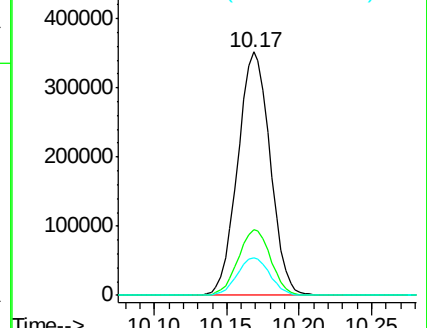
77 15.5 12.4 18.6



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.68 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

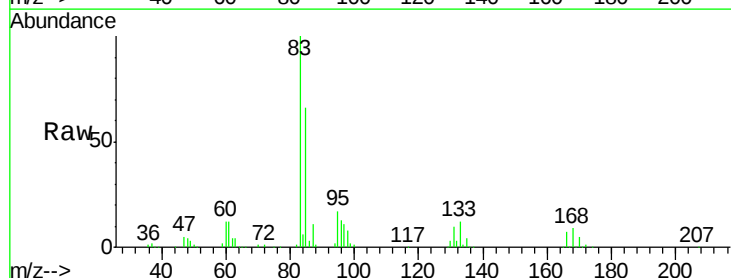
Tgt Ion: 83 Resp: 190160

Ion Ratio Lower Upper

83 100

85 66.1 45.1 83.7

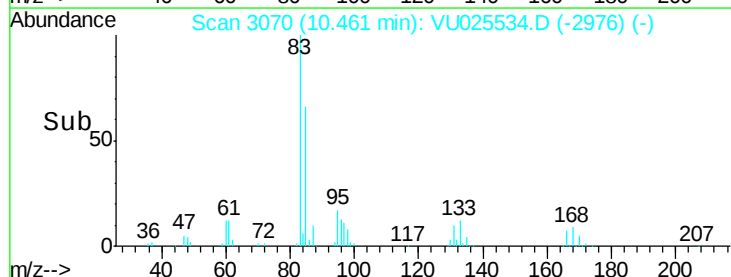
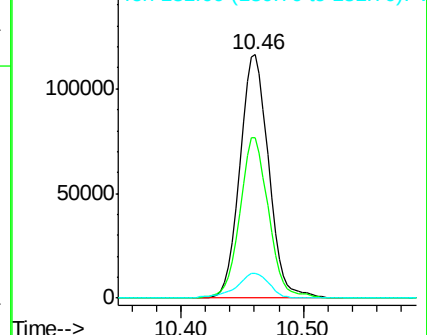
131 10.2 8.7 13.1

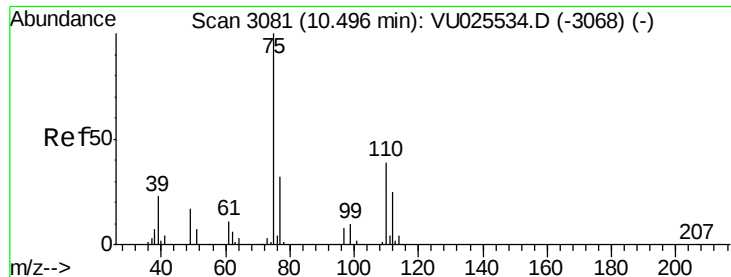


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

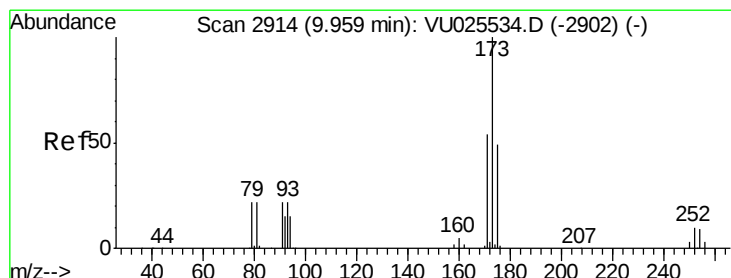
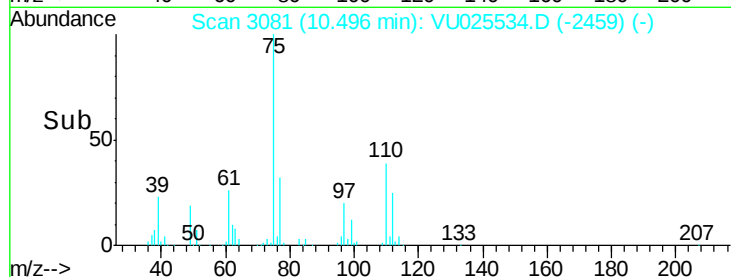
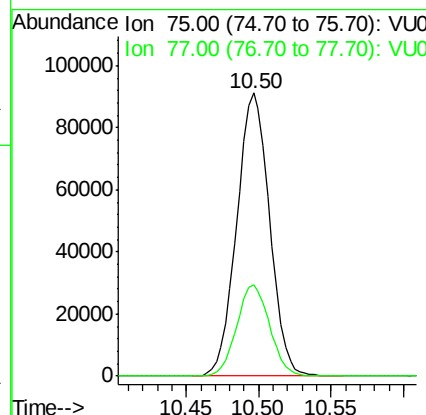
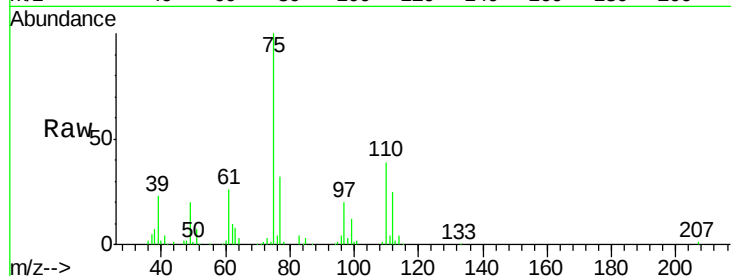




#59
 1,2,3-Trichloropropane
 Concen: 48.42 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

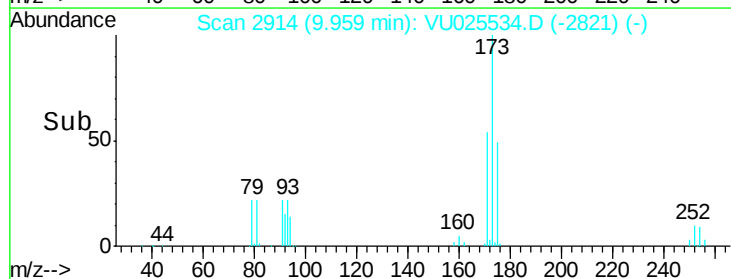
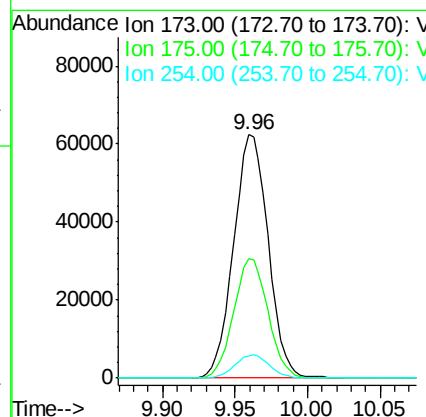
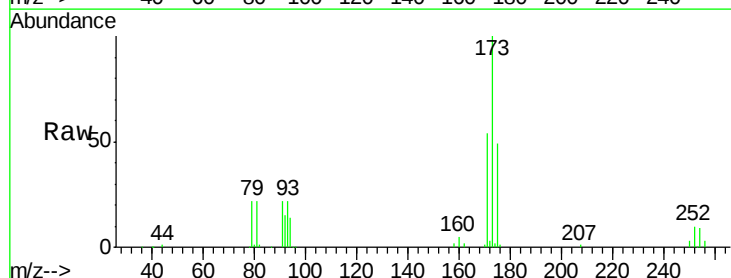
Instrument :
 MSVOA_U
 ClientSampleId :

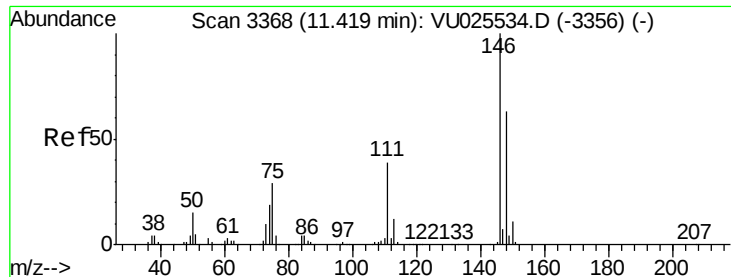
Tot Ion: 75 Resp: 143586
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.8 38.8



#61
 Bromoform
 Concen: 47.69 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

Tgt Ion: 173 Resp: 103139
 Ion Ratio Lower Upper
 173 100
 175 48.8 39.8 59.8
 254 9.4 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 49.87 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

ClientSampleId :

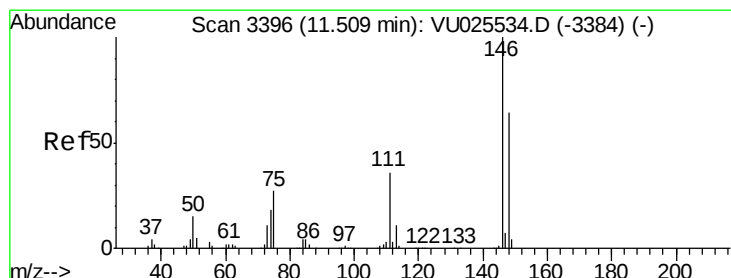
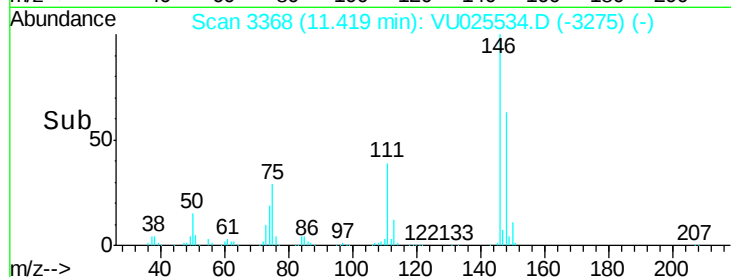
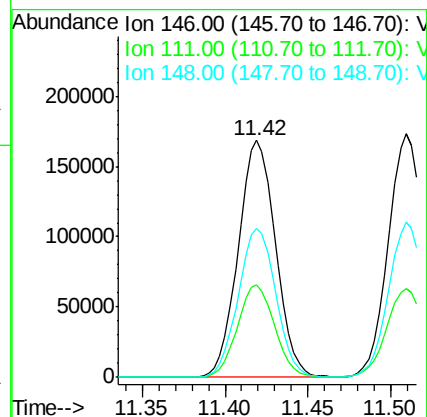
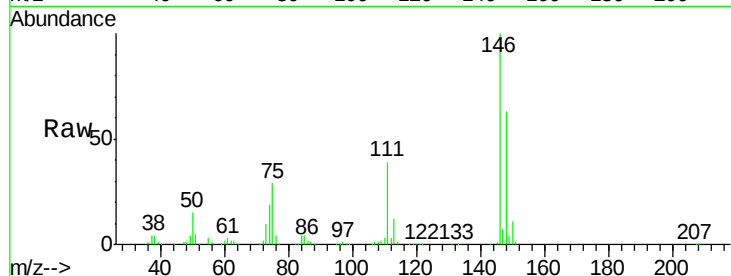
Tot Ion:146 Resp: 263762

Ion Ratio Lower Upper

146 100

111 39.1 27.7 51.5

148 63.1 45.5 84.5



#63

1,4-Dichlorobenzene

Concen: 49.30 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

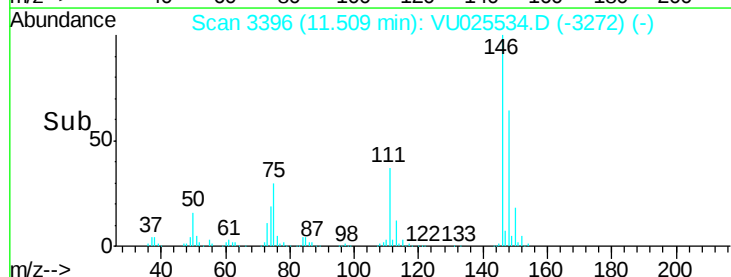
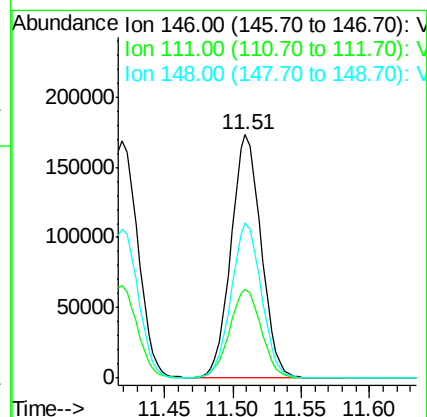
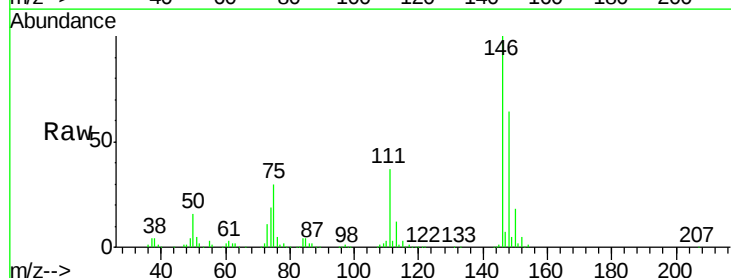
Tgt Ion:146 Resp: 266163

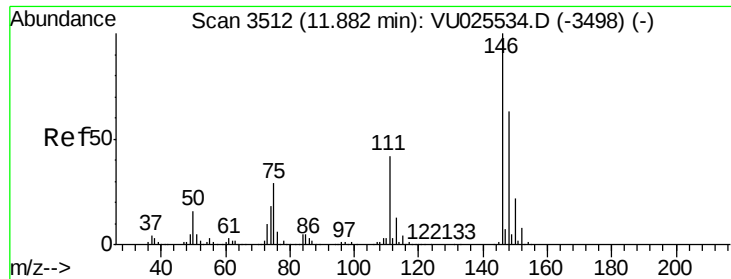
Ion Ratio Lower Upper

146 100

111 36.5 26.9 49.9

148 63.6 44.6 82.8

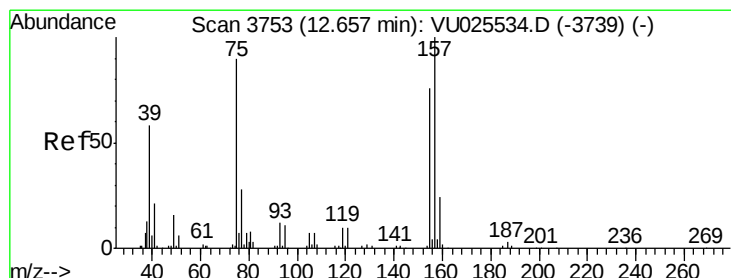
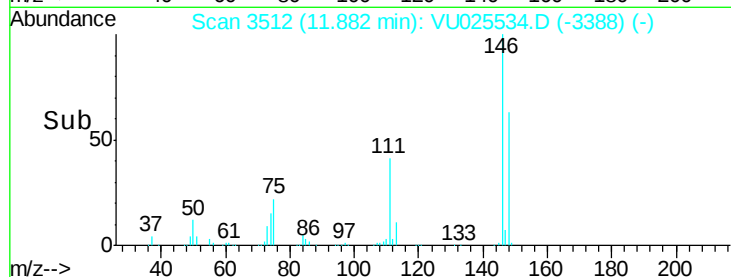
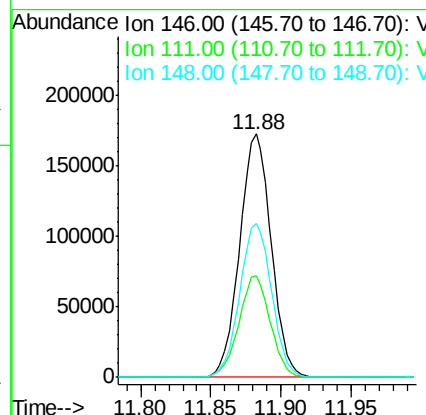
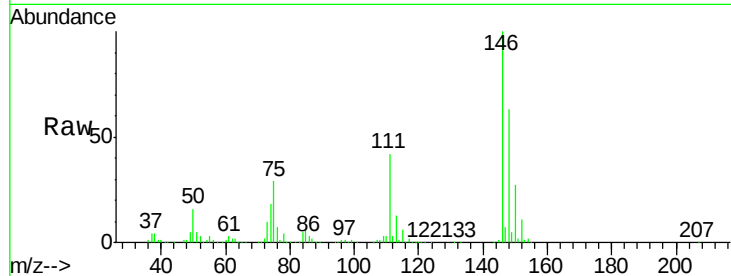




#65
 1,2-Dichlorobenzene
 Concen: 48.85 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

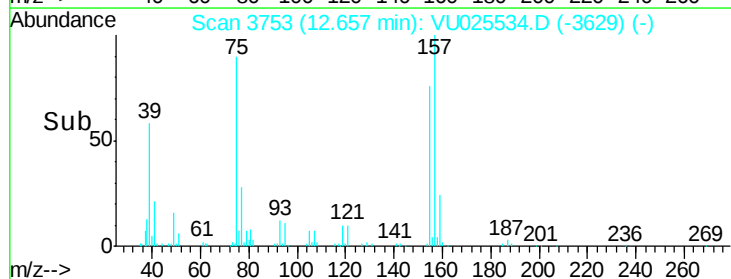
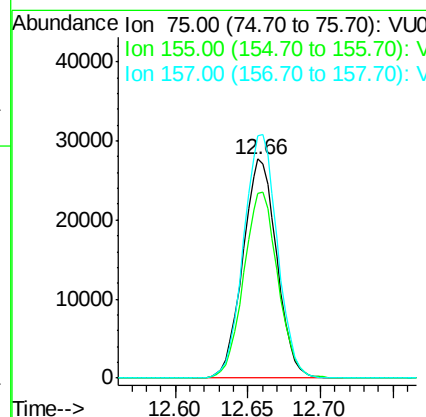
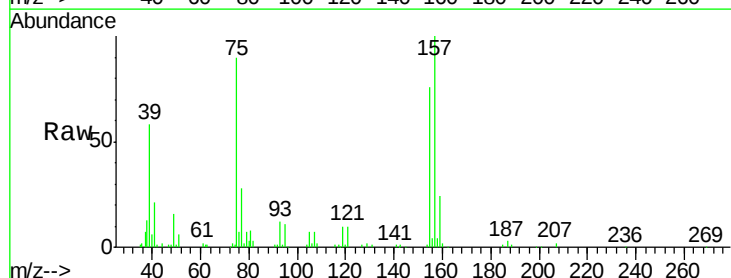
Instrument :
 MSVOA_U
 ClientSampleId :

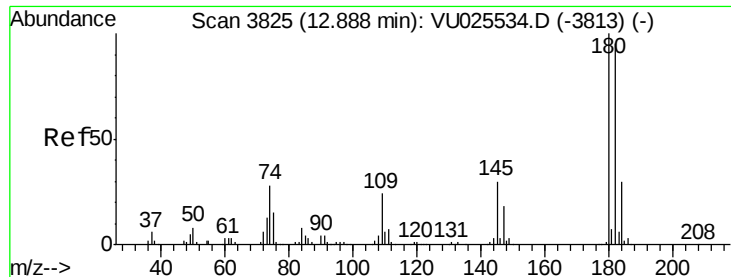
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	32.4	48.6
148	63.3	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.60 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.6	66.3	99.5
157	110.8	91.5	137.3

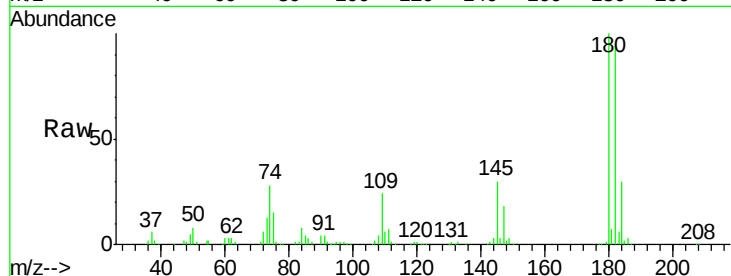




#67
 1,3,5-Trichlorobenzene
 Concen: 51.12 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.3	115.9
184	30.2	24.6	36.8
145	29.3	23.0	34.6

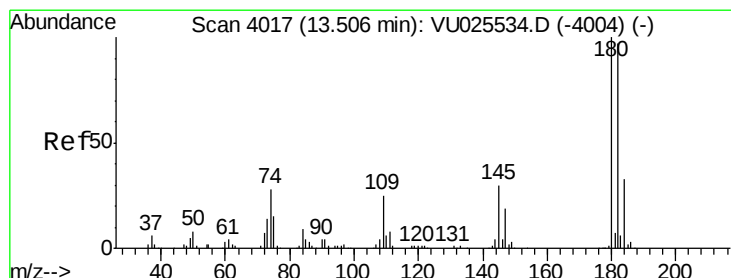
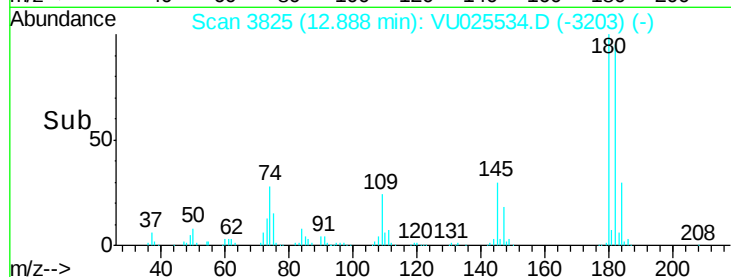
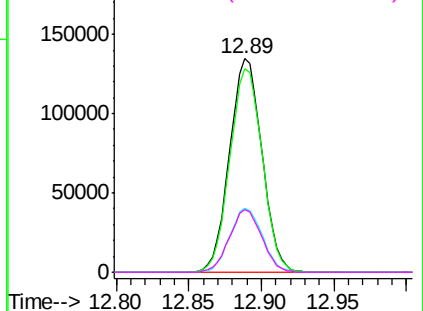


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

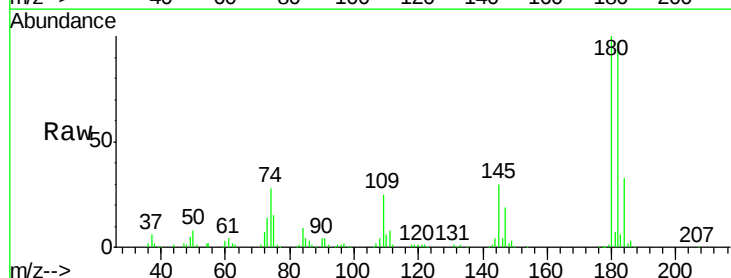
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.30 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

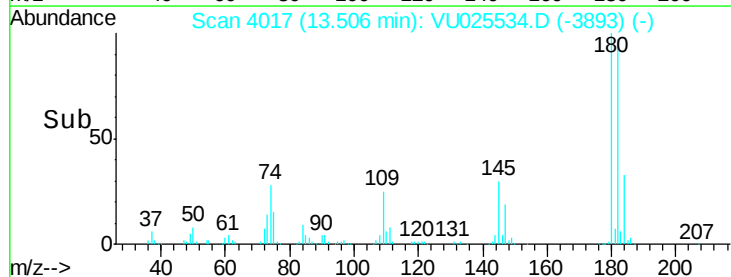
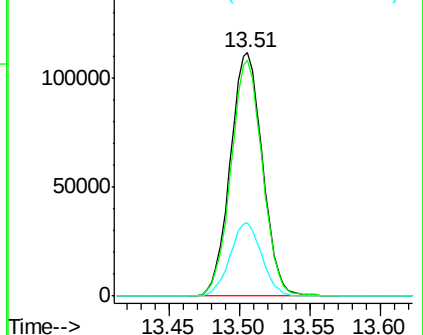
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	78.1	117.1
145	29.8	23.4	35.2

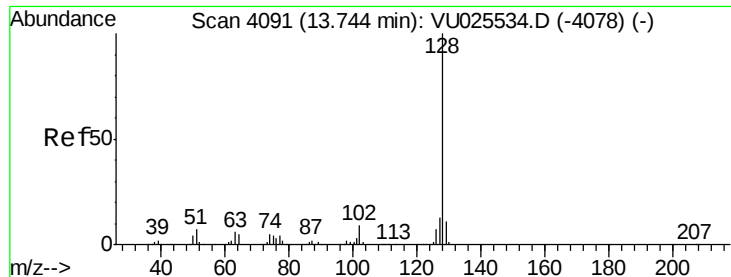


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.24 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

Instrument :

MSVOA_U

ClientSampleId :

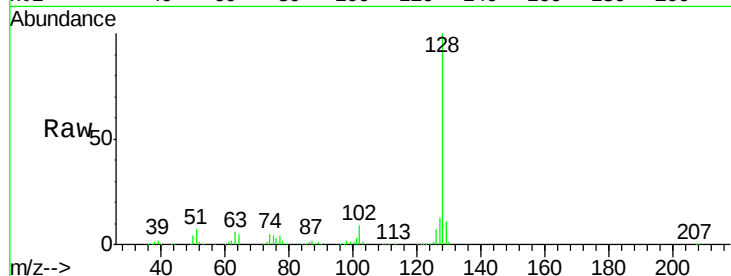
Tot Ion:128 Resp: 549411

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

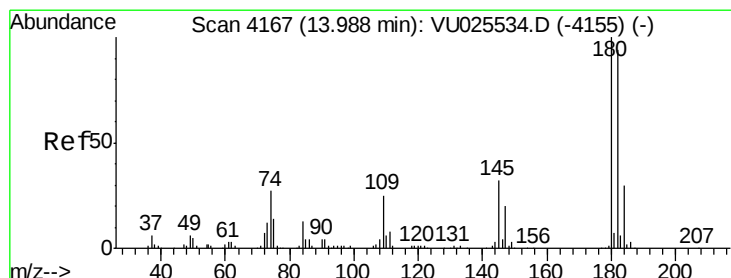
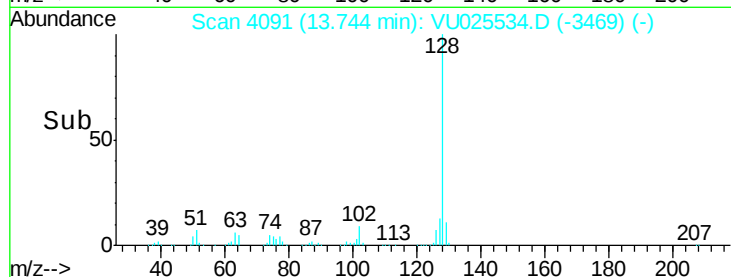
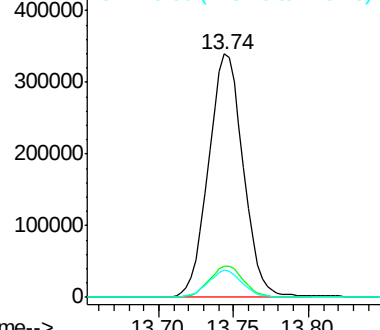
129 10.9 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.84 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

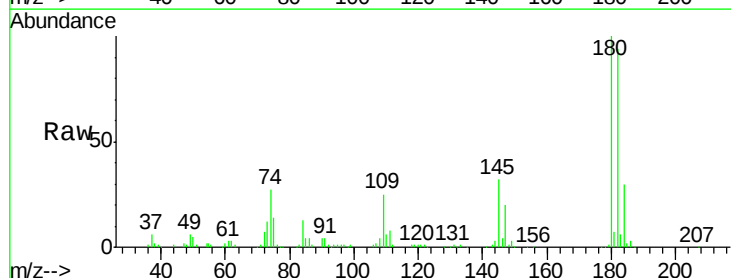
Tgt Ion:180 Resp: 188055

Ion Ratio Lower Upper

180 100

182 96.0 76.6 114.8

145 31.5 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

