

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	47.262	ug/L 100
3) Chloromethane	1.33	50	118525	48.909	ug/L 100
5) Vinyl chloride	1.41	62	128328	48.281	ug/L 99
6) Bromomethane	1.63	94	56785	61.434	ug/L 93
8) Chloroethane	1.70	64	73608	47.031	ug/L 98
9) Trichlorofluoromethane	1.89	101	178183	47.076	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	105526	49.786	ug/L 99
12) 1,1-Dichloroethene	2.29	96	93384	48.586	ug/L 98
13) Acetone	2.32	43	149245	84.710	ug/L 99
14) Carbon disulfide	2.48	76	302018	48.257	ug/L 100
15) Methyl Acetate	2.62	43	121433	49.860	ug/L 99
16) Methylene chloride	2.71	84	117335	49.007	ug/L 98
17) trans-1,2-Dichloroethene	2.99	96	105536	47.690	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	357660	49.626	ug/L 99
19) 1,1-Dichloroethane	3.45	63	201099	47.772	ug/L 99
20) cis-1,2-Dichloroethene	4.23	96	123551	49.462	ug/L 99
22) 2-Butanone	4.26	43	181756	92.668	ug/L 100

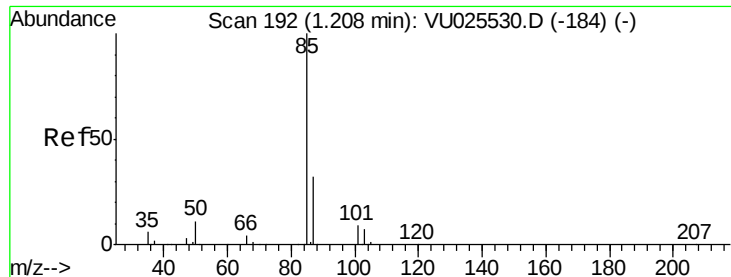
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072018\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	64812	49.158	uq/L	98
25) Chloroform	4.68	83	212721	48.023	uq/L	98
27) 1,2-Dichloroethane	5.41	62	175971	48.705	uq/L	97
29) Cyclohexane	5.00	56	181187	48.639	uq/L	99
30) 1,1,1-Trichloroethane	4.92	97	192021	47.725	uq/L	99
31) Carbon tetrachloride	5.14	117	174006	46.770	uq/L	99
33) Benzene	5.39	78	445936	48.268	uq/L	100
34) Trichloroethene	6.19	95	118350	48.280	uq/L	96
35) Methylcyclohexane	6.42	83	196031	49.596	uq/L	97
37) 1,2-Dichloropropane	6.44	63	124065	49.142	uq/L	100
38) Bromodichloromethane	6.76	83	162111	48.701	uq/L	98
39) cis-1,3-Dichloropropene	7.27	75	195900	50.000	uq/L	98
40) 4-Methyl-2-pentanone	7.46	43	328267	99.013	uq/L	98
42) Toluene	7.64	91	481804	48.358	uq/L	99
44) trans-1,3-Dichloropropene	7.88	75	182367	49.367	uq/L	97
45) 1,1,2-Trichloroethane	8.07	97	115691	47.774	uq/L	100
46) Tetrachloroethene	8.23	164	104144	49.006	uq/L	98
48) 2-Hexanone	8.36	43	274394	97.946	uq/L	99
49) Dibromochloromethane	8.48	129	140481	49.453	uq/L	97
50) 1,2-Dibromoethane	8.59	107	126401	48.449	uq/L	98
51) Chlorobenzene	9.12	112	320644	47.804	uq/L	100
52) Ethylbenzene	9.25	91	543042	49.383	uq/L	99
53) m,p-Xylene	9.38	106	211012	50.097	uq/L	96
54) o-xylene	9.78	106	208272	48.730	uq/L	99
55) Styrene	9.80	104	350756	50.388	uq/L	99
56) Isopropylbenzene	10.17	105	546337	49.532	uq/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	190160	48.682	uq/L	98
59) 1,2,3-Trichloropropane	10.50	75	143586	48.421	uq/L	100
61) Bromoform	9.96	173	103139	47.685	uq/L	99
62) 1,3-Dichlorobenzene	11.42	146	263762	49.867	uq/L	98
63) 1,4-Dichlorobenzene	11.51	146	266163	49.297	uq/L	99
65) 1,2-Dichlorobenzene	11.88	146	270696	48.851	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	44966	51.597	uq/L	97
67) 1,3,5-Trichlorobenzene	12.89	180	208713	51.120	uq/L	99
68) 1,2,4-trichlorobenzene	13.51	180	179458	52.299	uq/L	97
69) Naphthalene	13.74	128	549411	53.243	uq/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	188055	51.844	uq/L	100

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



#2

Dichlorodifluoromethane

Concen: 47.262 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

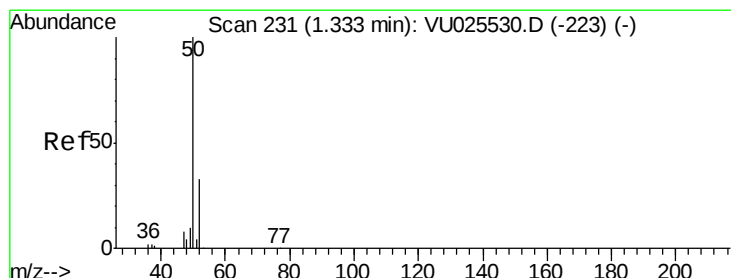
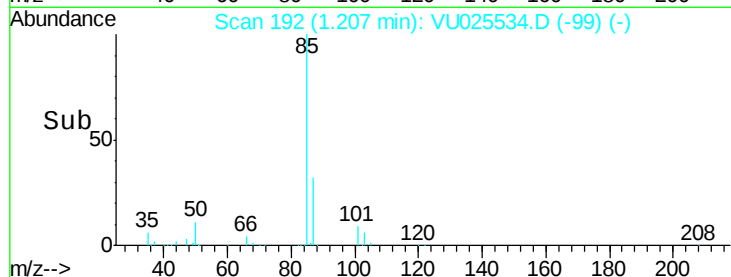
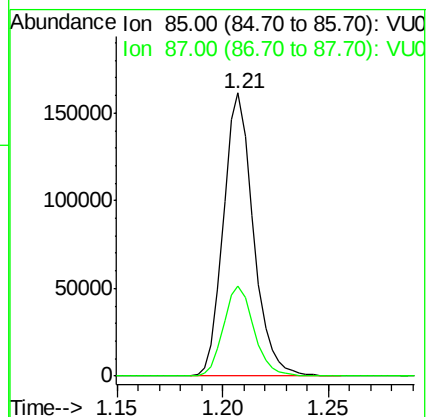
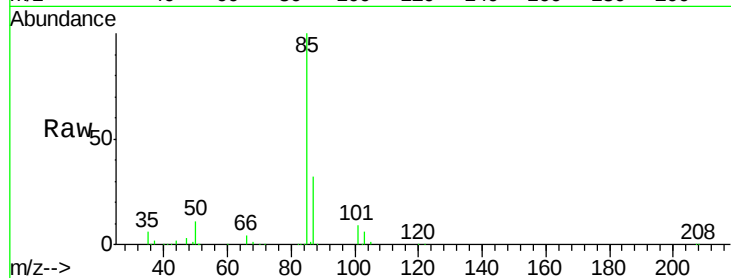
ClientSampleId :

Tot Ion: 85 Resp: 158596

Ion Ratio Lower Upper

85 100

87 32.3 25.6 38.4



#3

Chloromethane

Concen: 48.909 ug/L

RT: 1.33 min Scan# 231

Delta R.T. -0.00 min

Lab File: VU025534.D

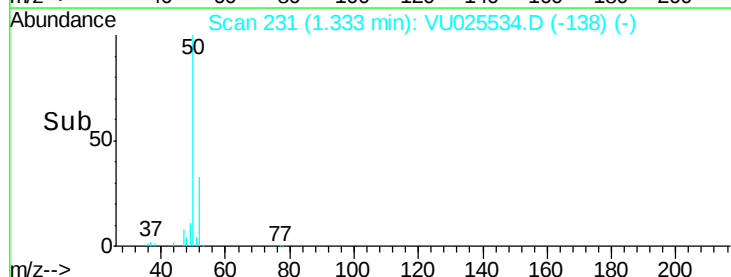
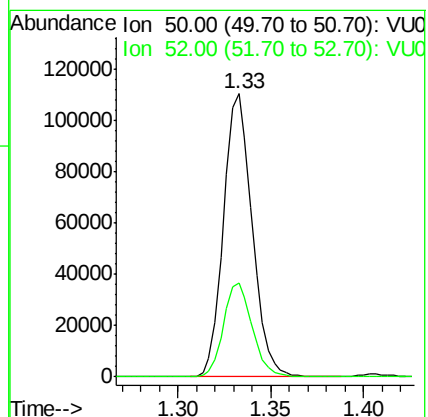
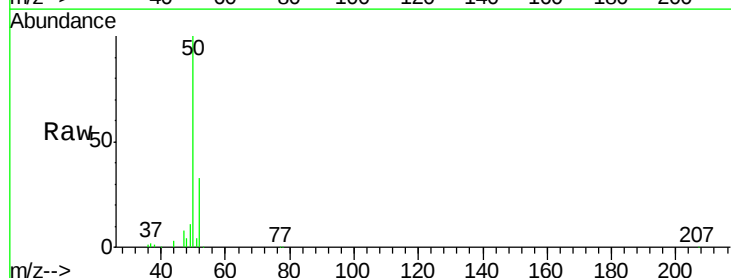
Acq: 20 Jul 2018 12:01

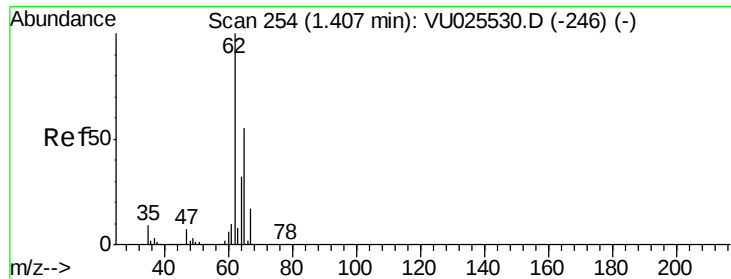
Tgt Ion: 50 Resp: 118525

Ion Ratio Lower Upper

50 100

52 33.2 23.2 43.2





#5

Vinyl chloride

Concen: 48.281 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

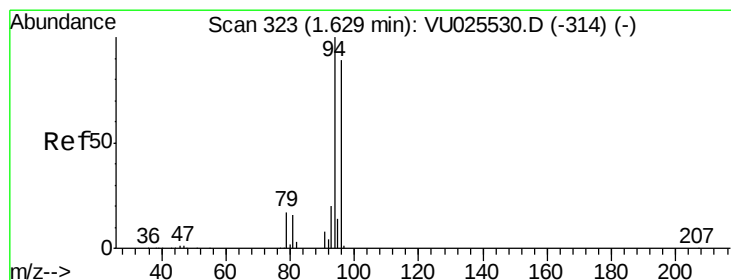
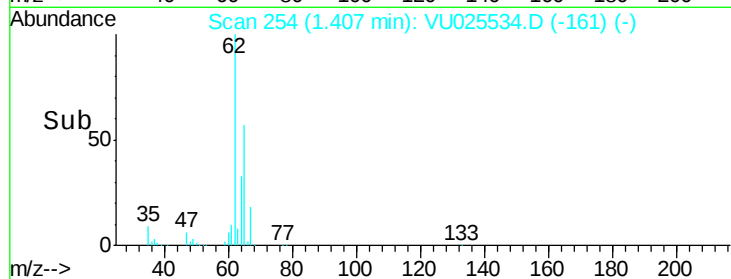
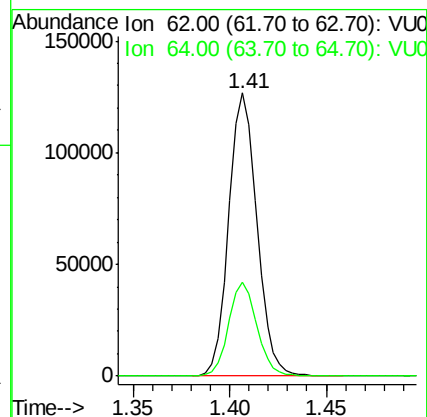
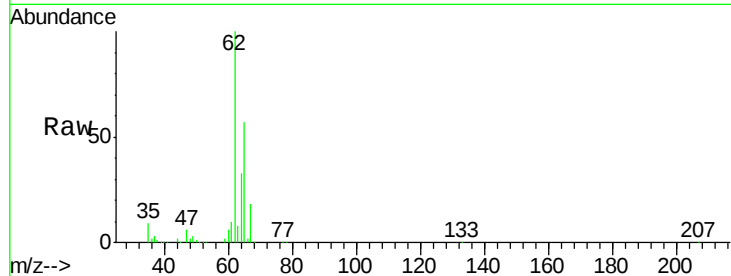
ClientSampleId :

Tot Ion: 62 Resp: 128328

Ion Ratio Lower Upper

62 100

64 33.1 22.7 42.1



#6

Bromomethane

Concen: 61.434 ug/L

RT: 1.63 min Scan# 323

Delta R.T. -0.00 min

Lab File: VU025534.D

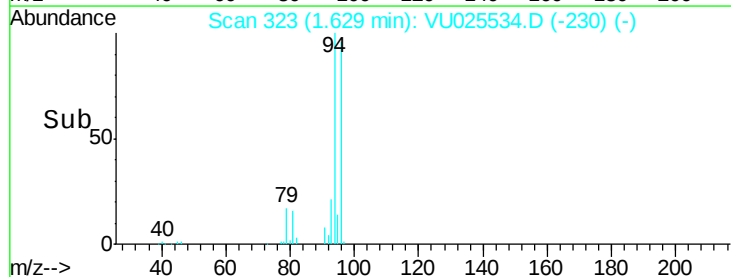
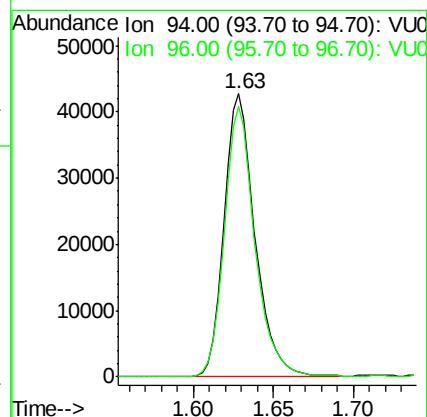
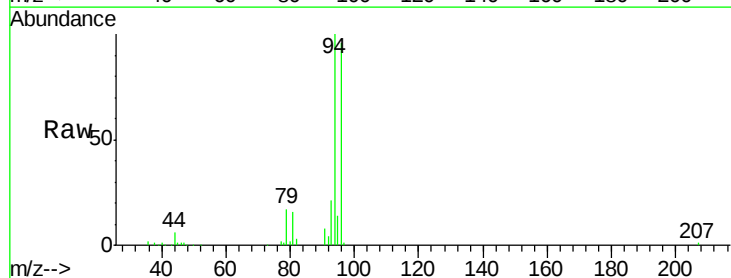
Acq: 20 Jul 2018 12:01

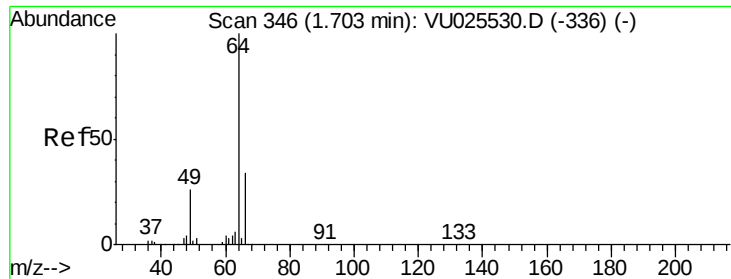
Tgt Ion: 94 Resp: 56785

Ion Ratio Lower Upper

94 100

96 95.7 62.4 115.8





#8

Chloroethane

Concen: 47.031 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

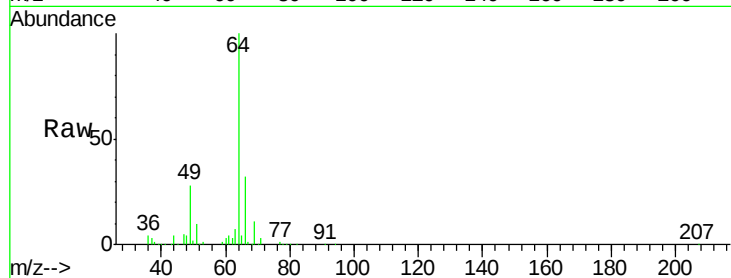
ClientSampleId :

Tot Ion: 64 Resp: 73608

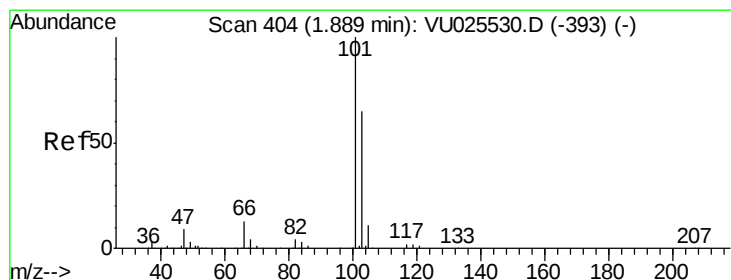
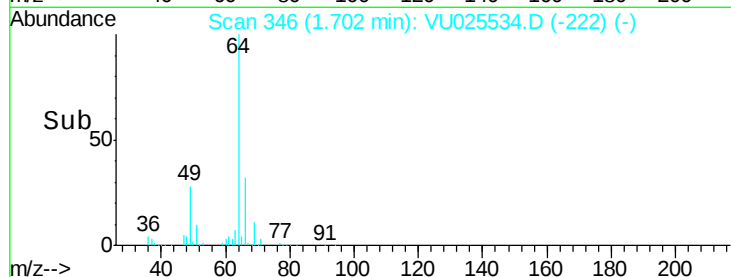
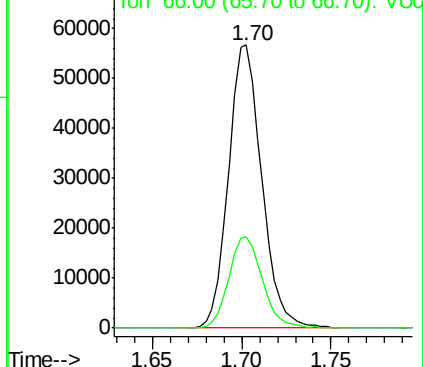
Ion Ratio Lower Upper

64 100

66 32.5 23.5 43.7



Abundance Ion 64.00 (63.70 to 64.70): VU025530.D (-336) (-)



#9

Trichlorofluoromethane

Concen: 47.076 ug/L

RT: 1.89 min Scan# 404

Delta R.T. -0.00 min

Lab File: VU025534.D

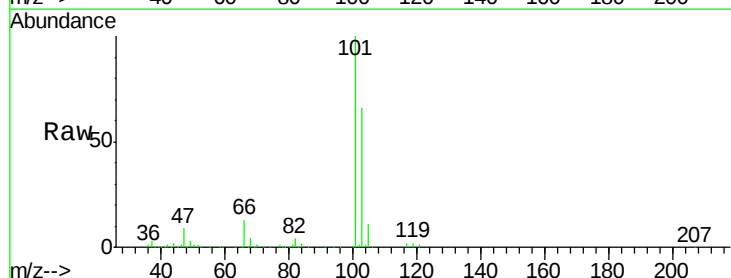
Acq: 20 Jul 2018 12:01

Tgt Ion:101 Resp: 178183

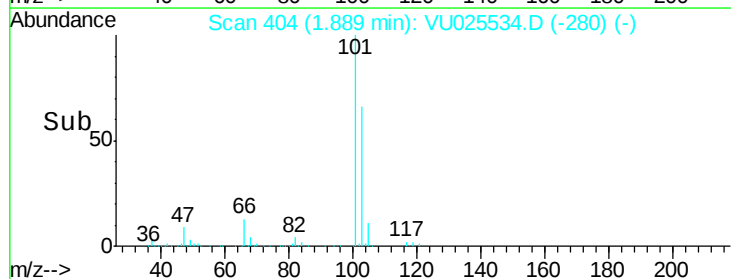
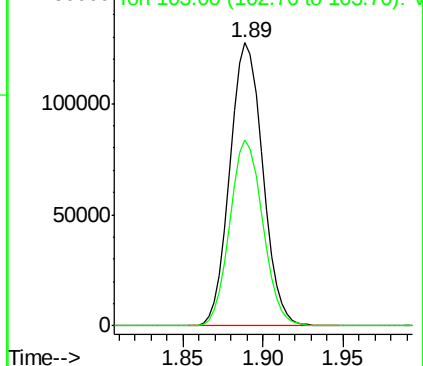
Ion Ratio Lower Upper

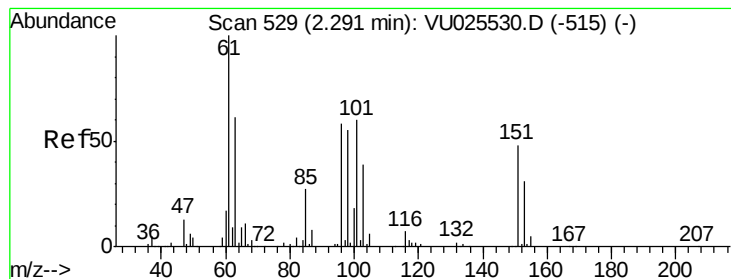
101 100

103 65.6 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU025530.D (-393) (-)





#10

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

Concen: 49.786 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 :

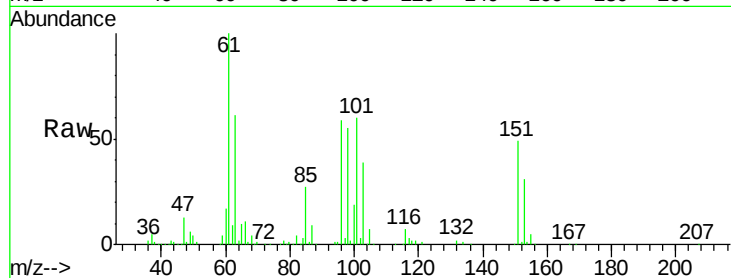
Tot Ion:101 Resp: 105526

Ion Ratio Lower Upper

101 100

85 44.1 35.5 53.3

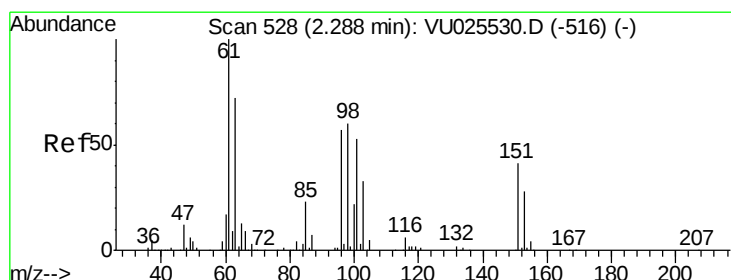
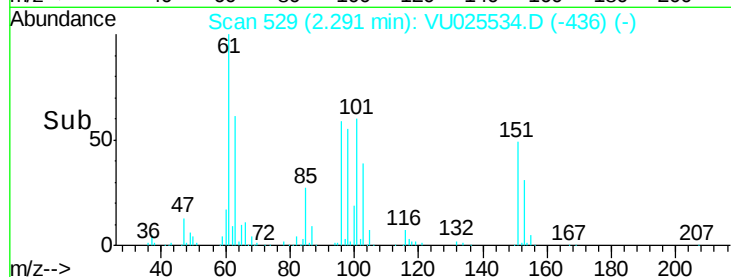
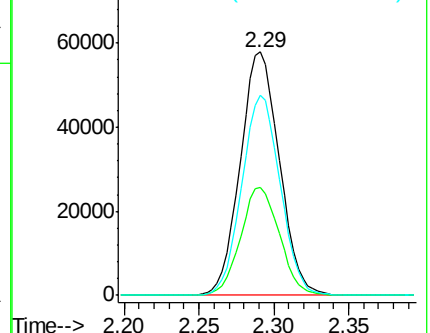
151 80.8 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): VU025534.D (-436) (-)

Ion 85.00 (84.70 to 85.70): VU025534.D (-436) (-)

Ion 151.00 (150.70 to 151.70): VU025534.D (-436) (-)



#12

1,1-Dichloroethene

Concen: 48.586 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

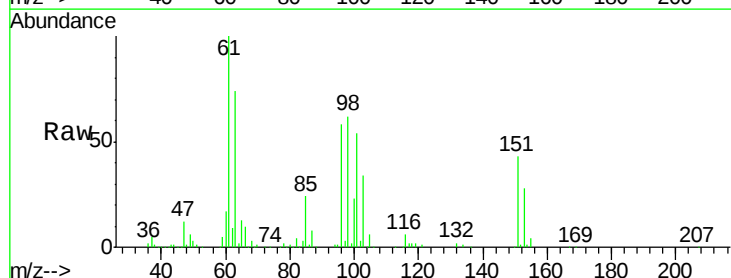
Tgt Ion: 96 Resp: 93384

Ion Ratio Lower Upper

96 100

61 171.7 122.5 227.5

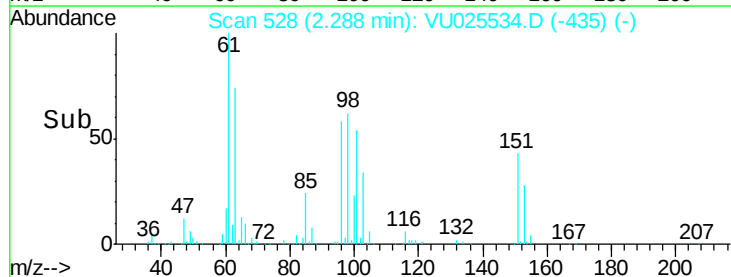
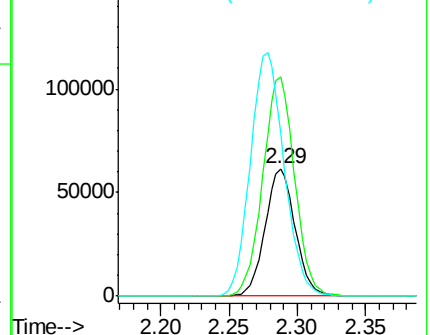
63 127.2 90.9 168.9

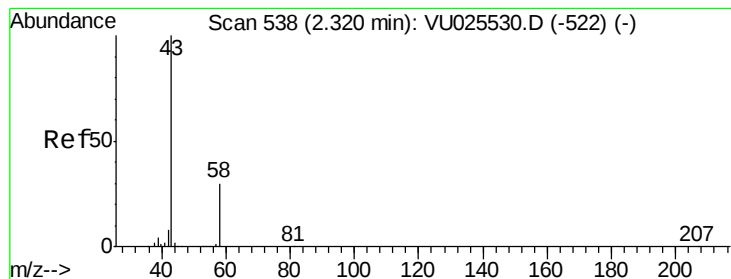


Abundance Ion 96.00 (95.70 to 96.70): VU025534.D (-435) (-)

Ion 61.00 (60.70 to 61.70): VU025534.D (-435) (-)

Ion 63.00 (62.70 to 63.70): VU025534.D (-435) (-)





#13

Acetone

Concen: 84.710 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

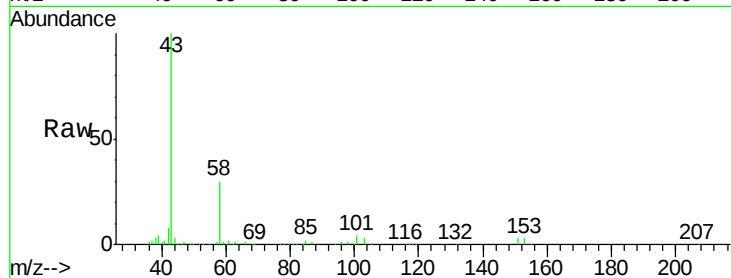
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 149245

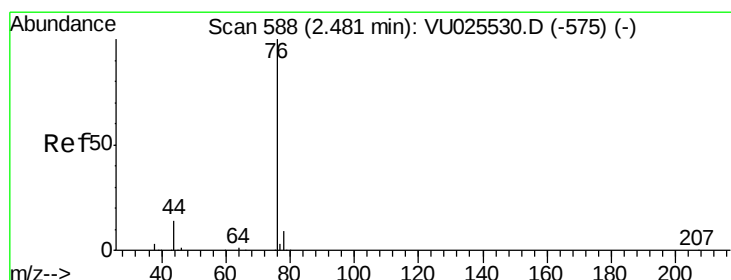
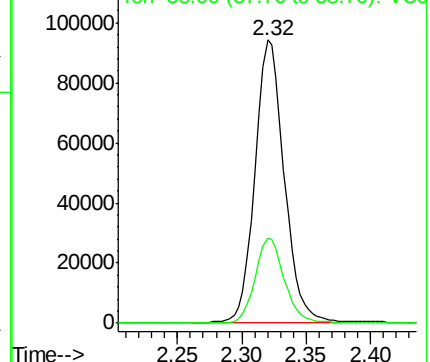
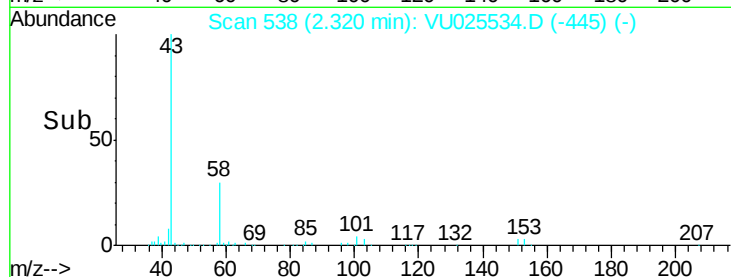
Ion Ratio Lower Upper

43 100

58 30.3 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VU025534.D (-445) (-)



#14

Carbon disulfide

Concen: 48.257 ug/L

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU025534.D

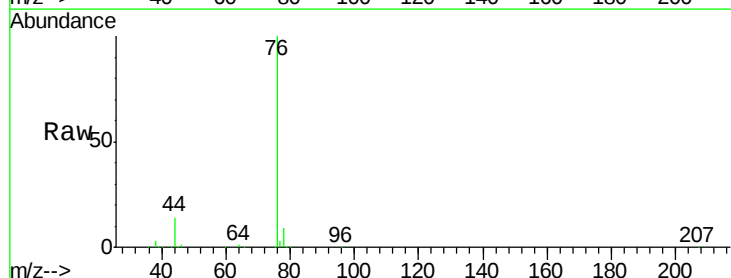
Acq: 20 Jul 2018 12:01

Tgt Ion: 76 Resp: 302018

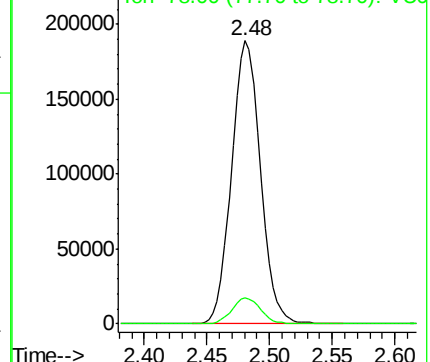
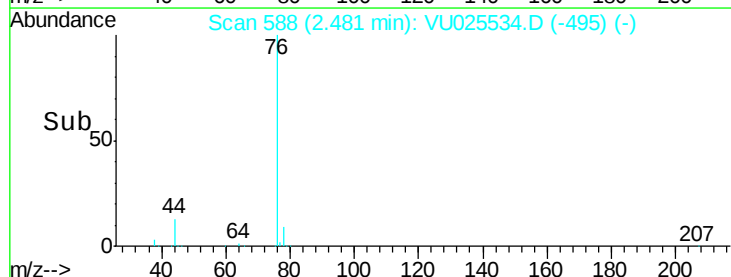
Ion Ratio Lower Upper

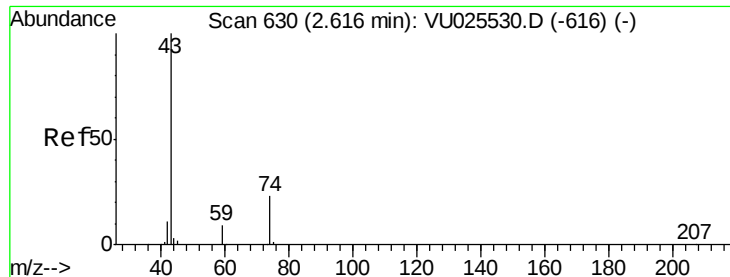
76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU025534.D (-495) (-)





#15

Methvl Acetate

Concen: 49.860 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

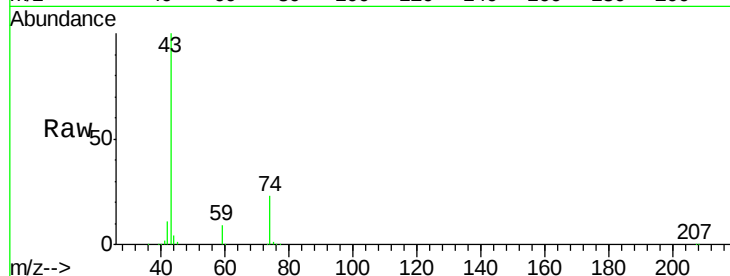
ClientSampleId :

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

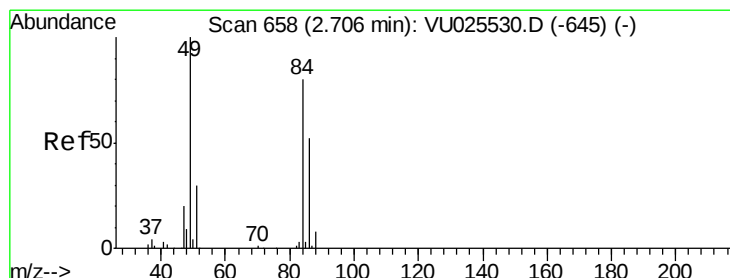
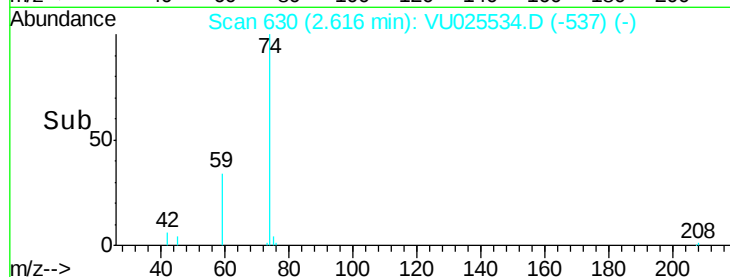
40000

20000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 49.007 ug/L

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

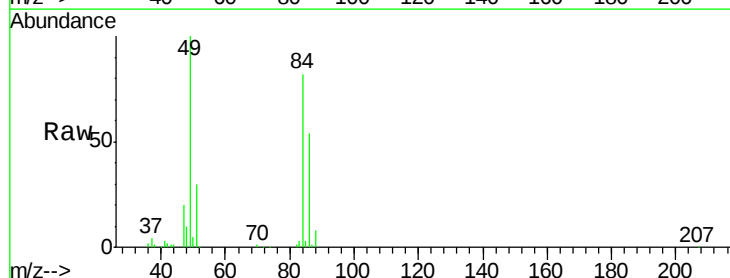
Tgt Ion: 84 Resp: 117335

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

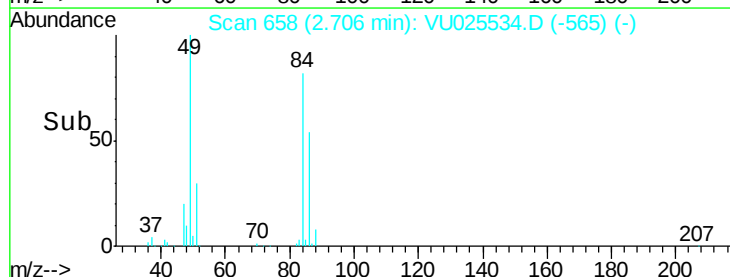
40000

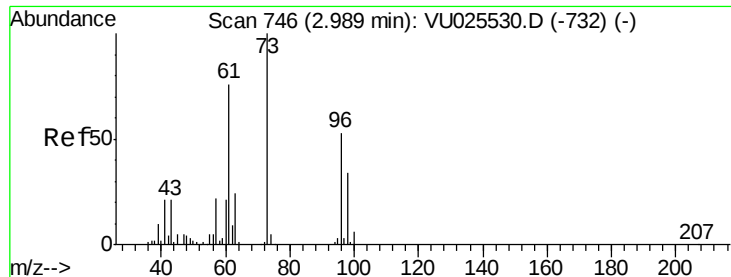
20000

0

Time-->

2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 47.690 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 :

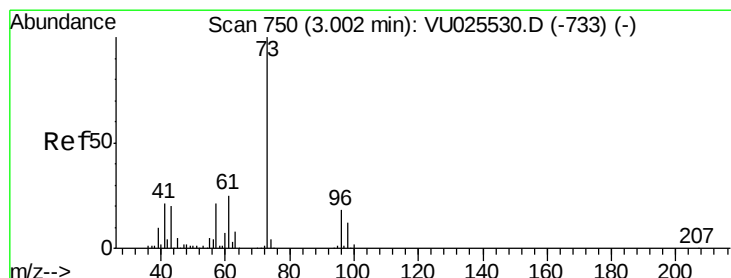
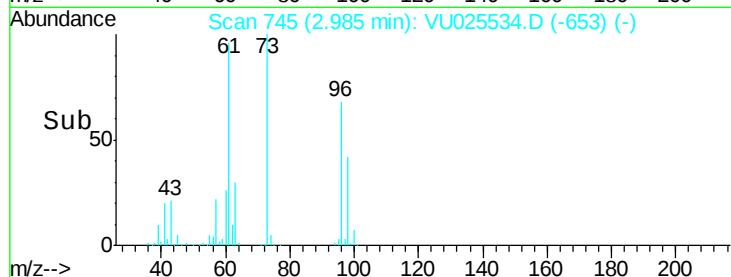
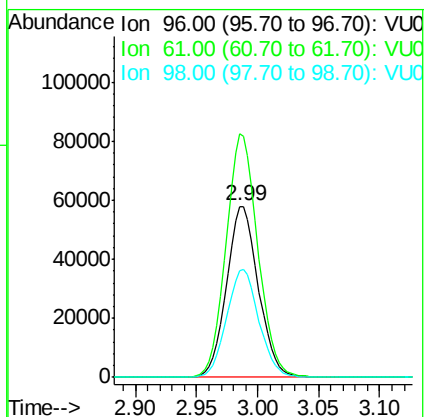
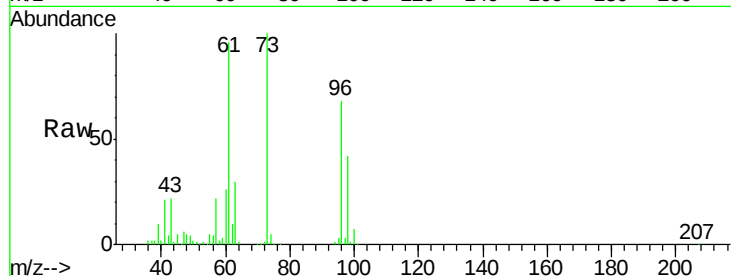
Tot Ion: 96 Resp: 105536

Ion Ratio Lower Upper

96 100

61 142.5 100.0 185.8

98 62.1 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 49.626 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

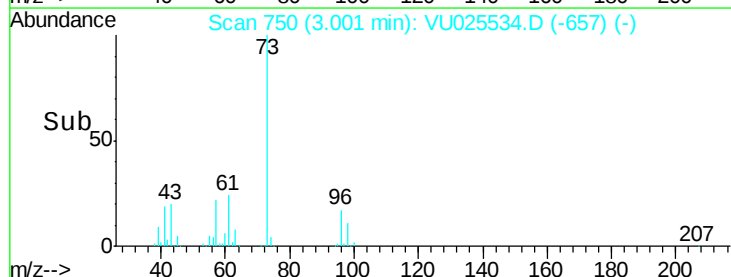
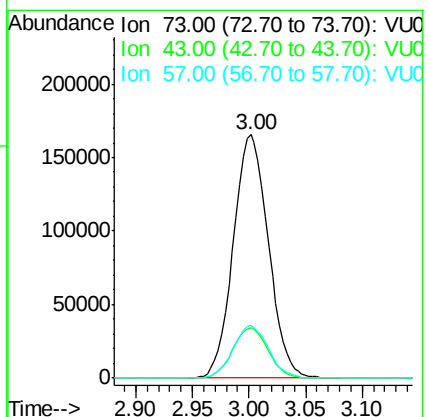
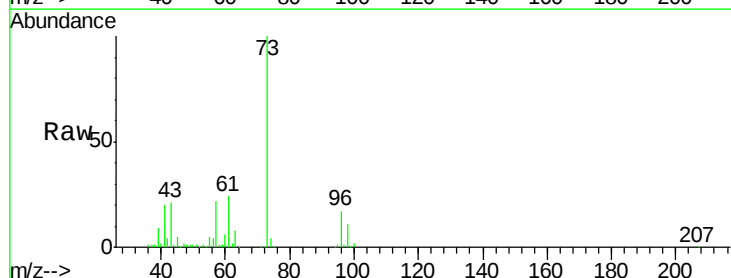
Tgt Ion: 73 Resp: 357660

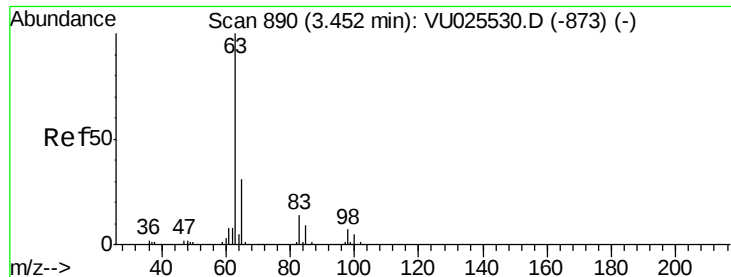
Ion Ratio Lower Upper

73 100

43 20.9 16.2 24.2

57 21.8 17.1 25.7

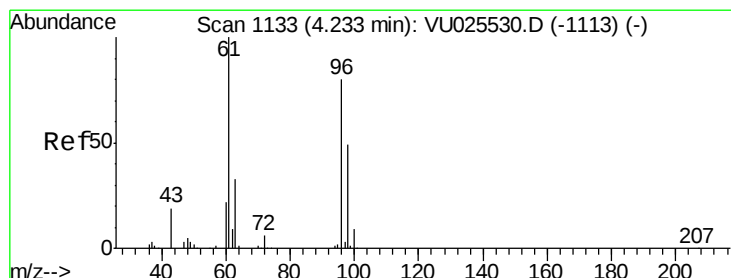
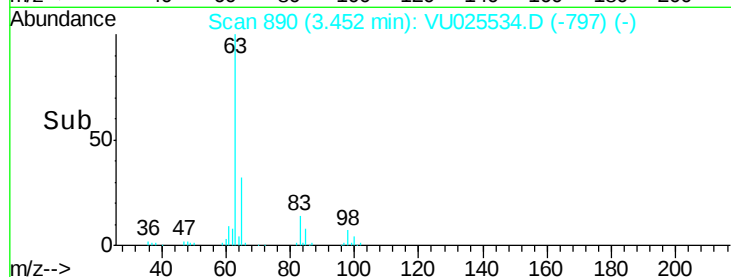
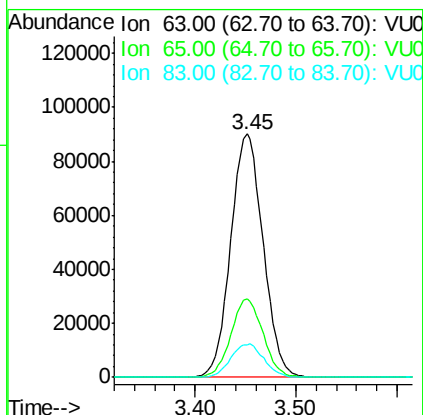
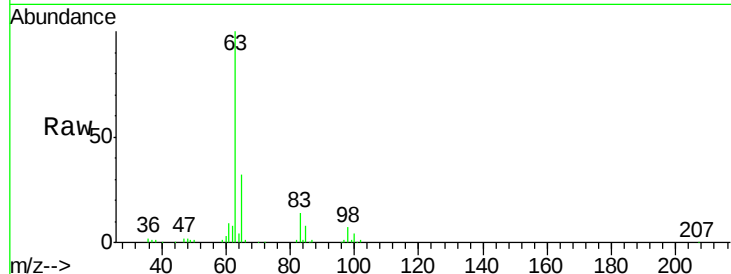




#19
 1,1-Dichloroethane
 Concen: 47.772 ug/L
 RT: 3.45 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

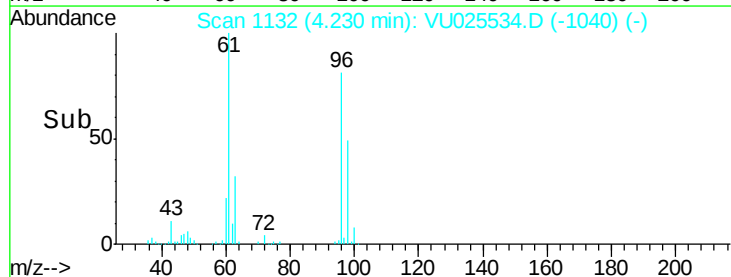
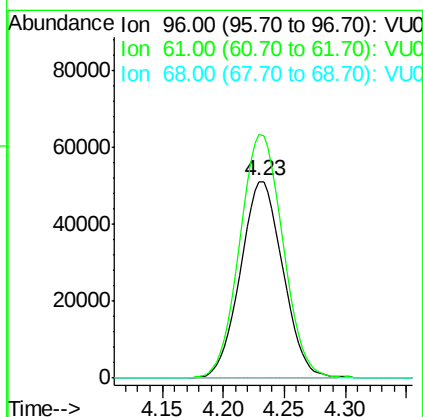
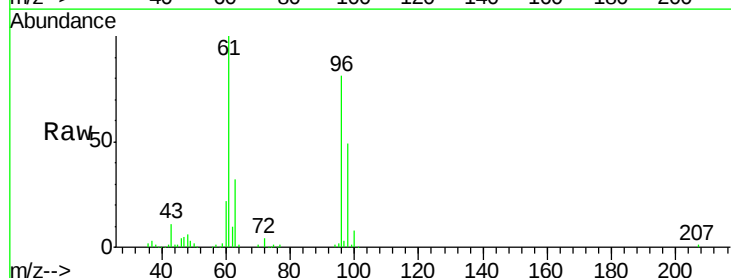
Instrument :
 MSVOA_U
 ClientSampleId :

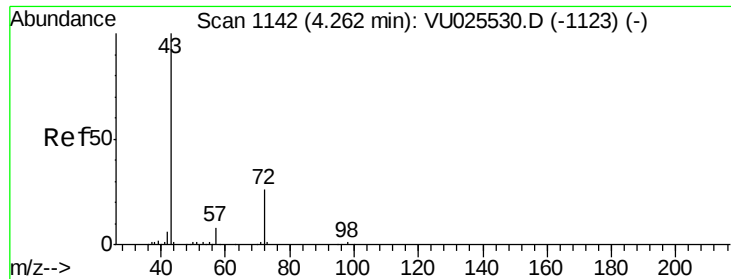
Tot Ion	Ratio	Lower	Upper
63	100		
65	32.1	22.0	41.0
83	13.6	9.6	17.8



#20
 cis-1,2-Dichloroethene
 Concen: 49.462 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	Ratio	Lower	Upper
96	100		
61	123.7	87.4	162.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 92.668 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

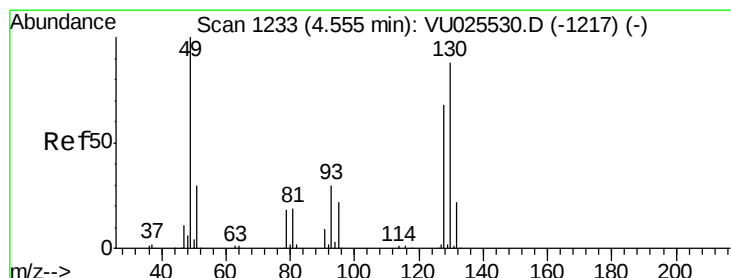
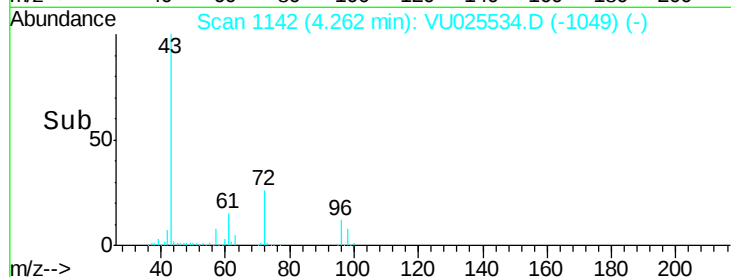
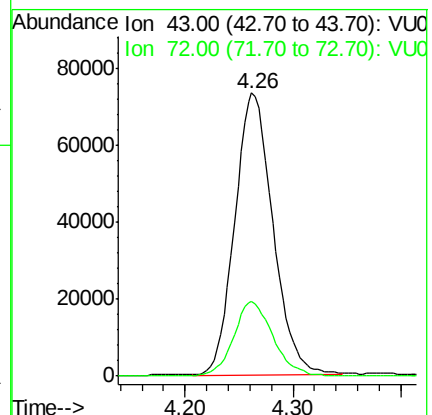
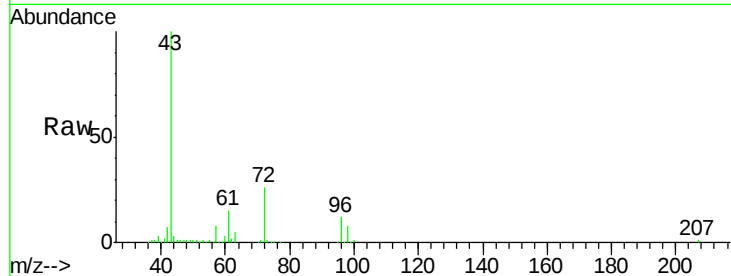
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 181756

Ion Ratio Lower Upper

43 100

72 27.2 13.6 40.8



#23

Bromochloromethane

Concen: 49.158 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

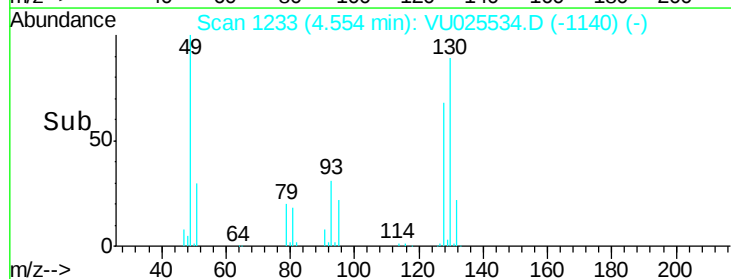
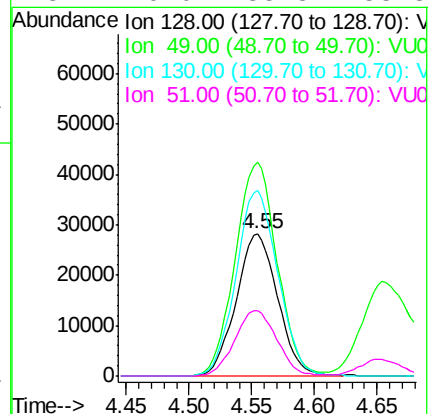
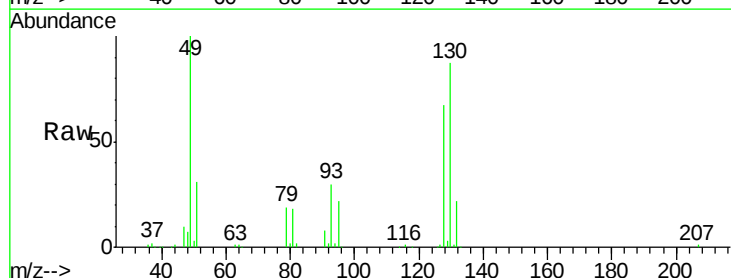
Ion Ratio Lower Upper

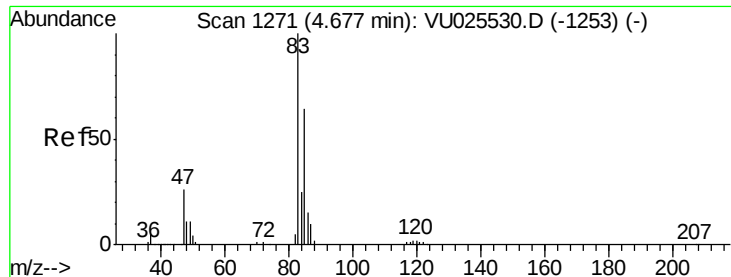
128 100

49 149.9 103.3 191.8

130 130.0 90.4 167.8

51 46.0 35.5 53.3





#25

Chloroform

Concen: 48.023 ug/L

RT: 4.68 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

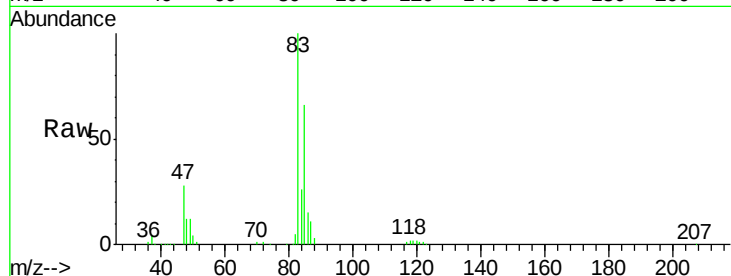
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 212721

Ion Ratio Lower Upper

83 100

85 65.7 45.0 83.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

4.68

100000

80000

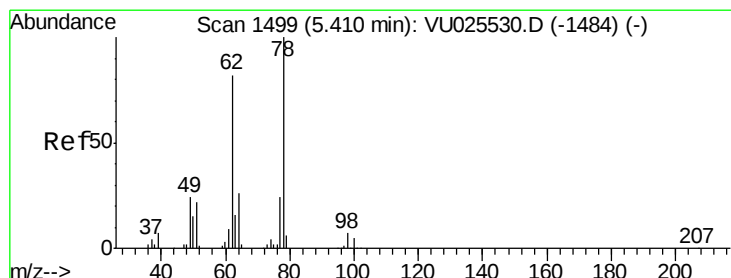
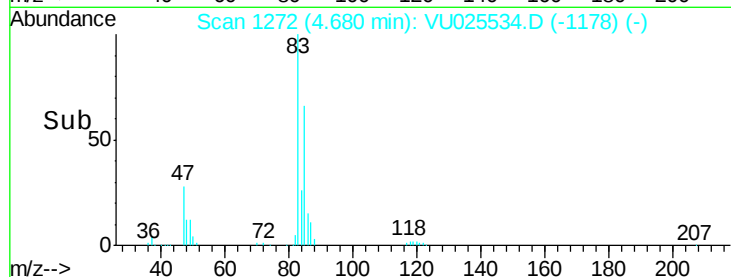
60000

40000

20000

0

Time--> 4.55 4.60 4.65 4.70 4.75



#27

1,2-Dichloroethane

Concen: 48.705 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU025534.D

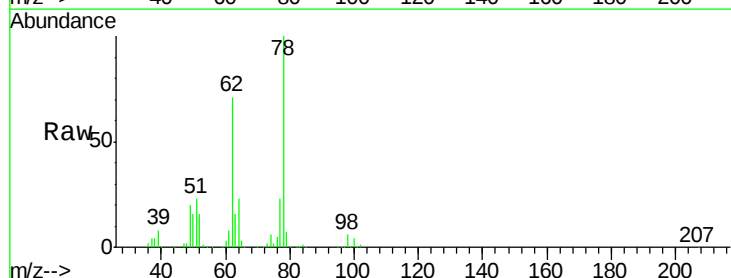
Acq: 20 Jul 2018 12:01

Tgt Ion: 62 Resp: 175971

Ion Ratio Lower Upper

62 100

98 9.0 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

5.41

100000

80000

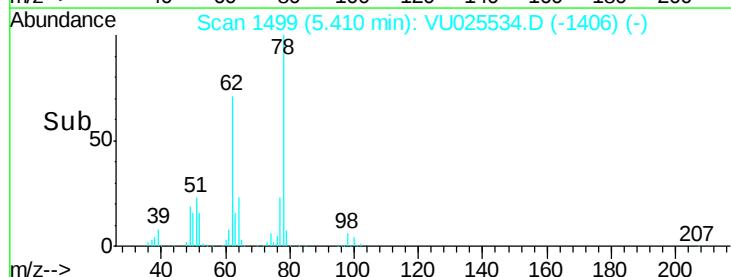
60000

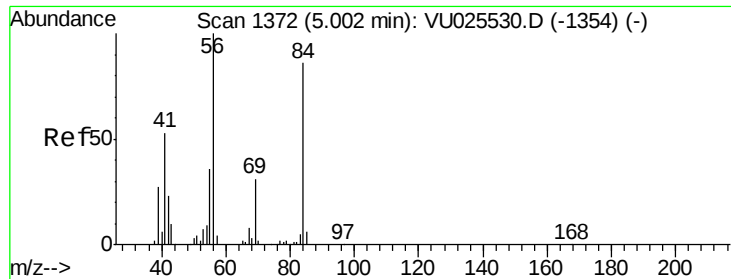
40000

20000

0

Time--> 5.35 5.40 5.45 5.50

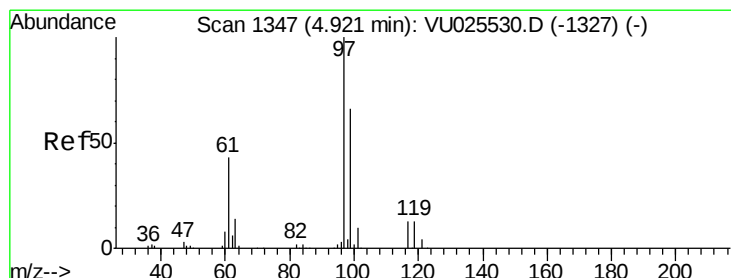
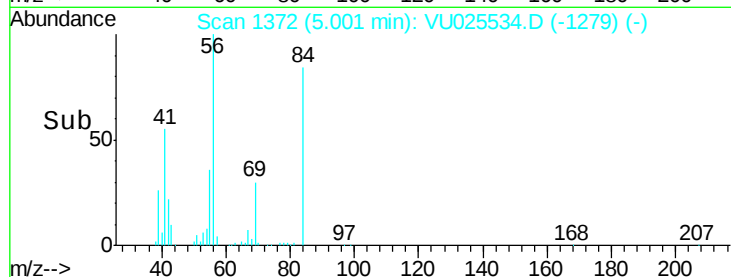
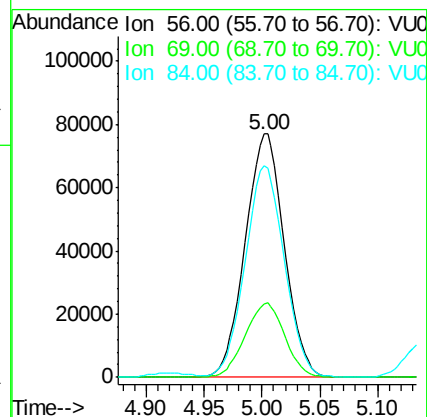
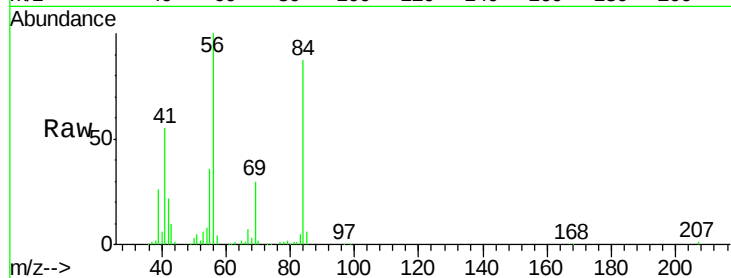




#29
Cyclohexane
Concen: 48.639 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

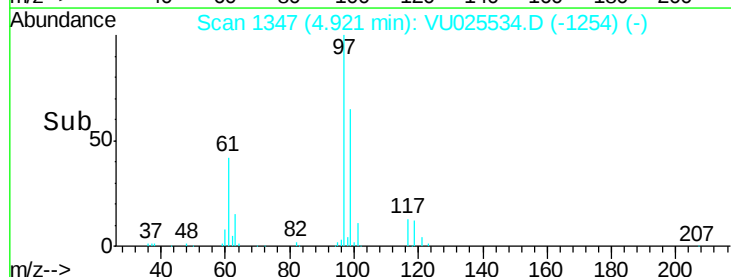
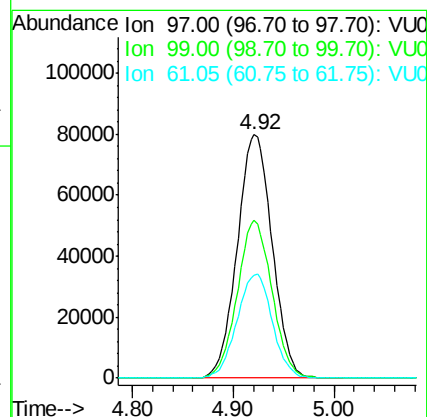
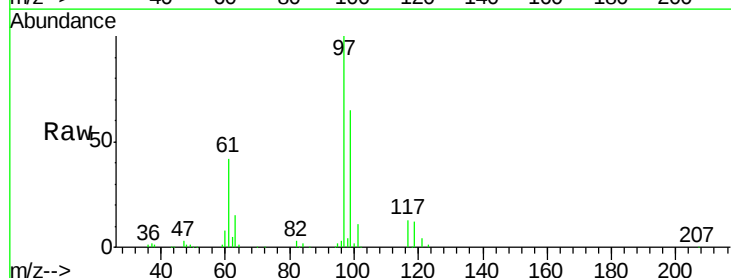
Instrument :
MSVOA_U
ClientSampleId :

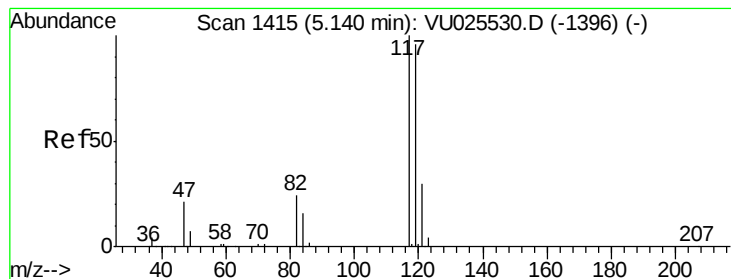
Tot Ion: 56 Resp: 181187
Ion Ratio Lower Upper
56 100
69 30.9 24.8 37.2
84 87.4 70.6 106.0



#30
1,1,1-Trichloroethane
Concen: 47.725 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





#31

Carbon tetrachloride

Concen: 46.770 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

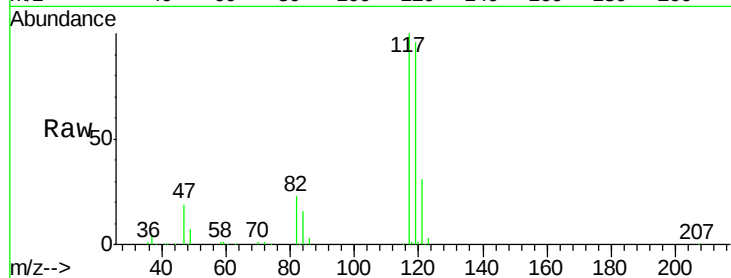
ClientSampleId :

Tot Ion:117 Resp: 174006

Ion Ratio Lower Upper

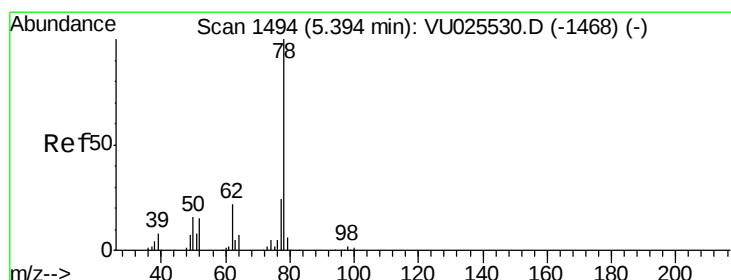
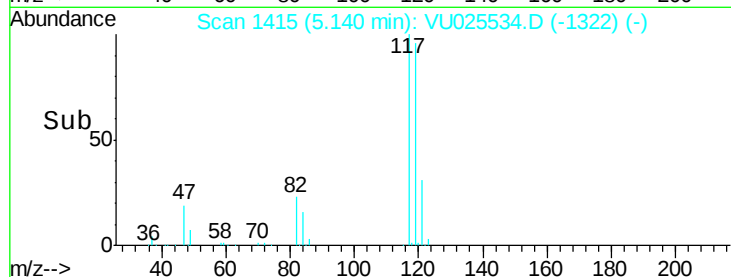
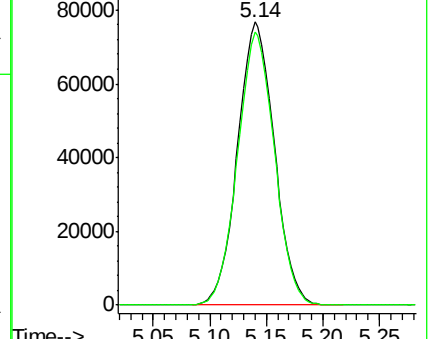
117 100

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: 48.268 ug/L

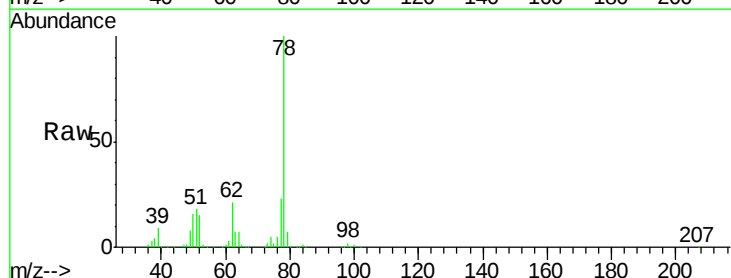
RT: 5.39 min Scan# 1494

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

250000

200000

150000

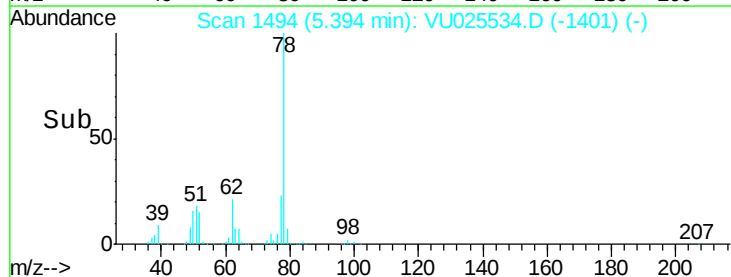
100000

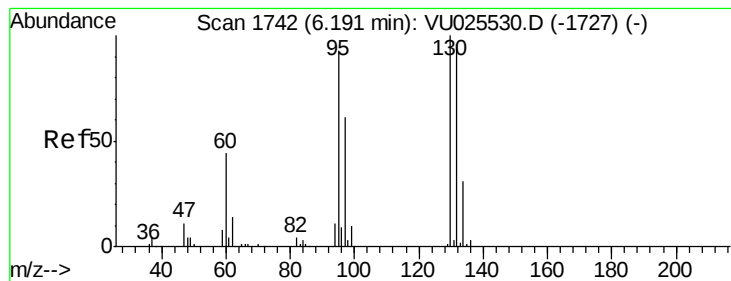
50000

0

5.30 5.40 5.50

Time-->





#34

Trichloroethene

Concen: 48.280 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

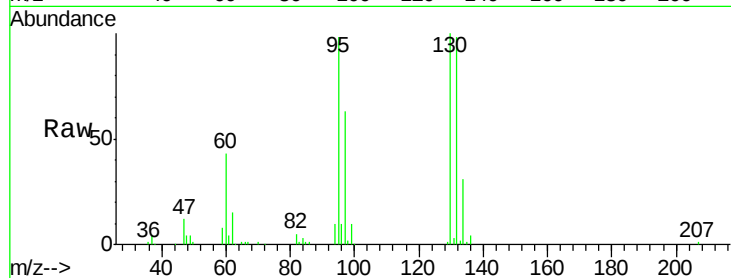
Ion Ratio Lower Upper

95 100

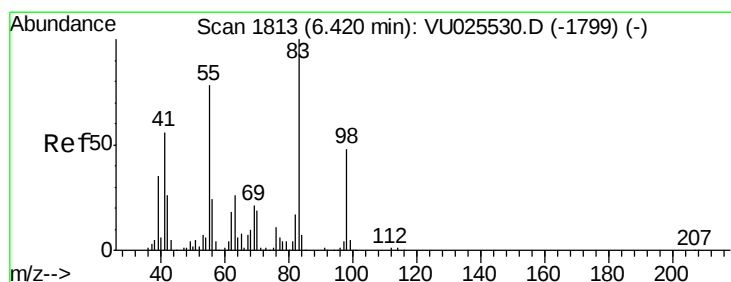
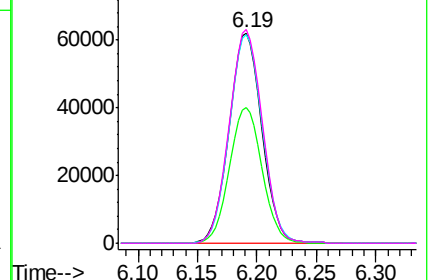
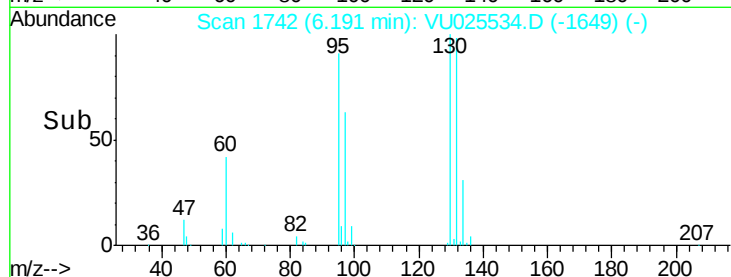
97 64.5 45.9 85.3

132 99.4 72.2 134.2

130 101.7 74.9 139.1



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 97.00 (96.70 to 97.70): VU0
Ion 132.00 (131.70 to 132.70): V
Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 49.596 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

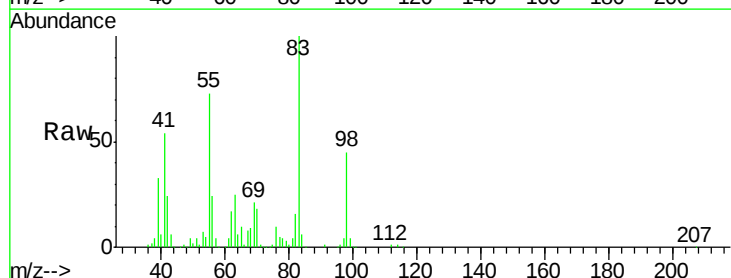
Tgt Ion: 83 Resp: 196031

Ion Ratio Lower Upper

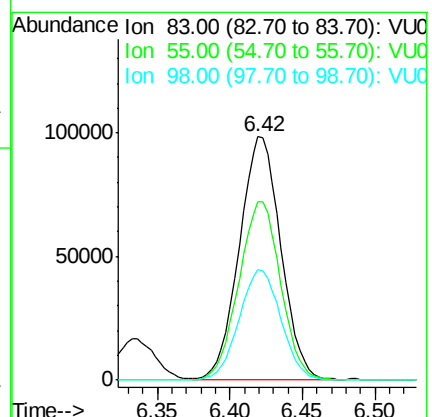
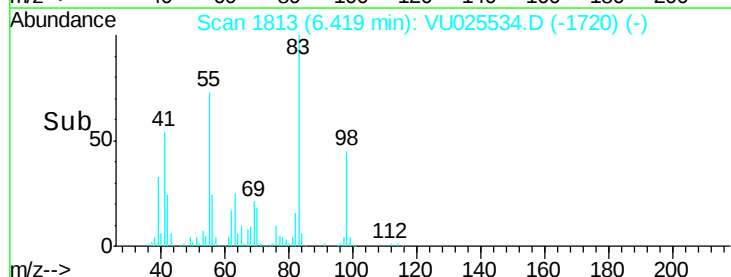
83 100

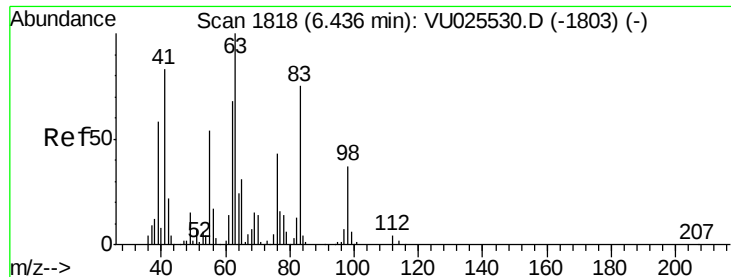
55 73.9 61.1 91.7

98 45.7 38.6 57.8



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

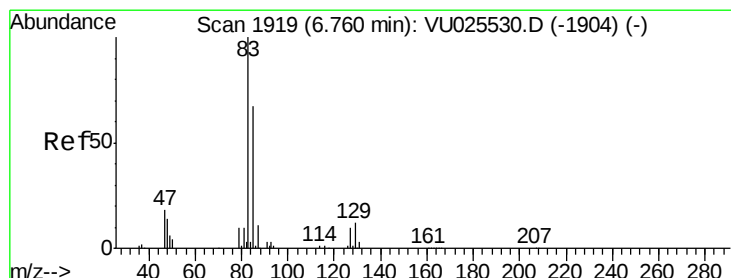
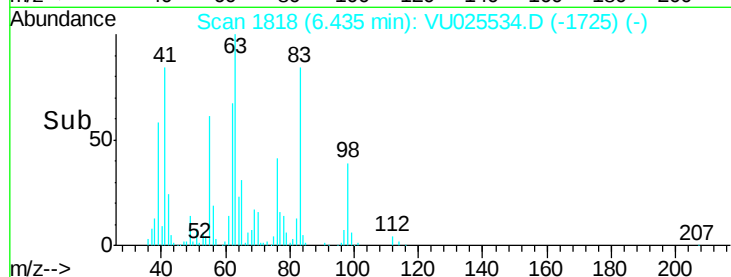
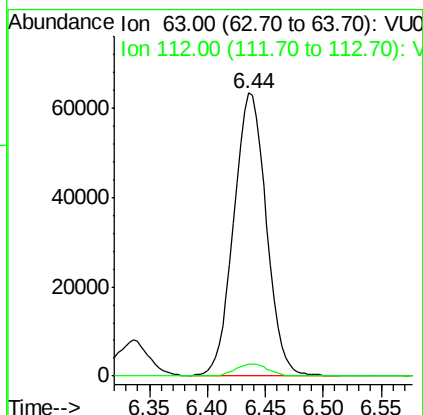
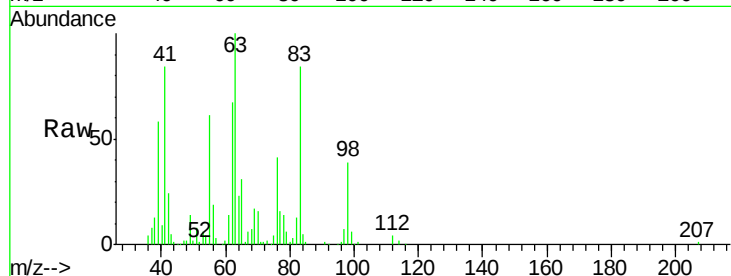




#37
 1,2-Dichloropropane
 Concen: 49.142 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

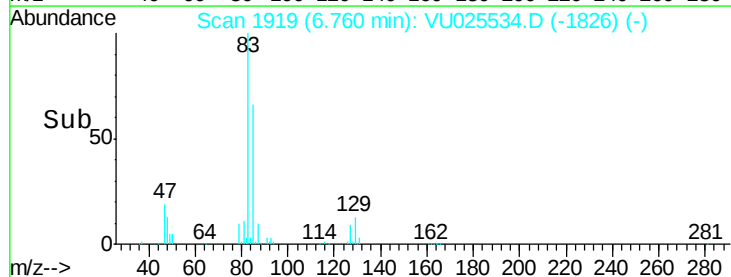
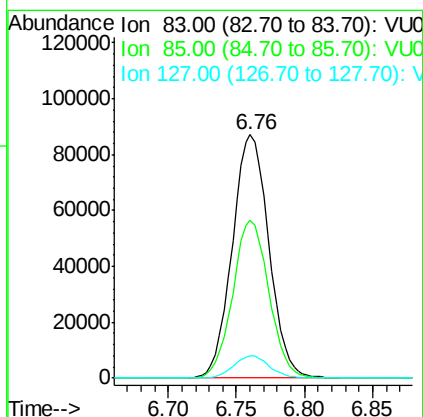
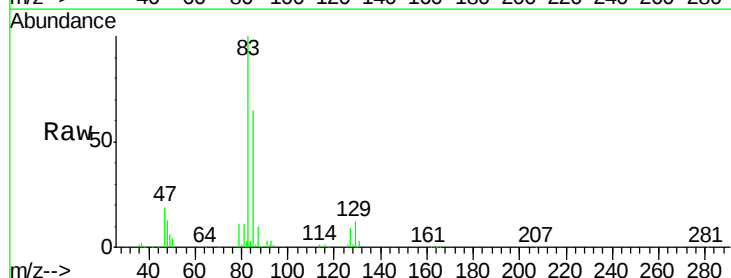
Instrument :
 MSVOA_U
 ClientSampleId :

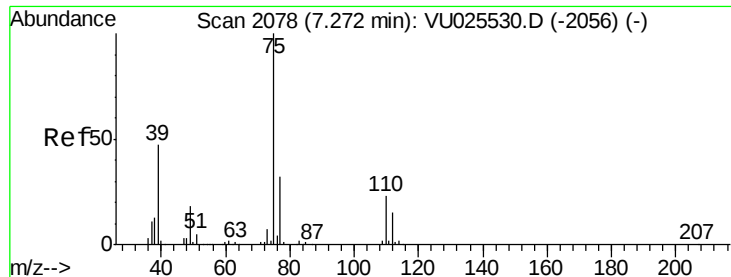
Tot Ion: 63 Resp: 124065
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#38
 Bromodichloromethane
 Concen: 48.701 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

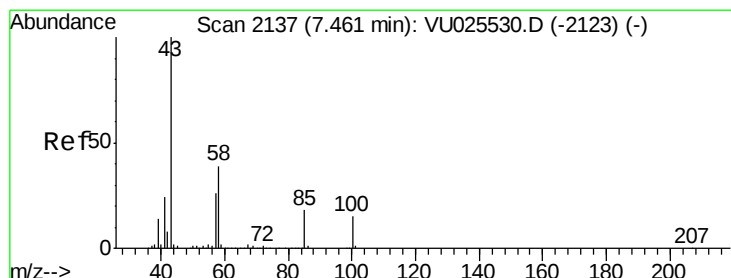
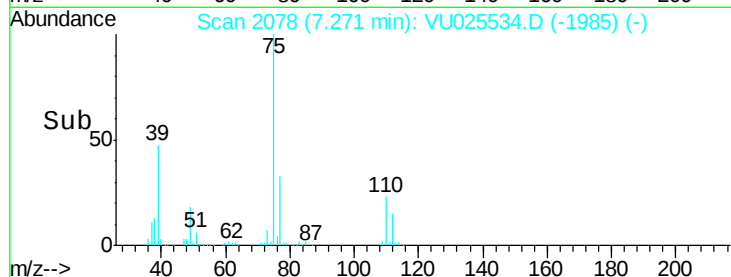
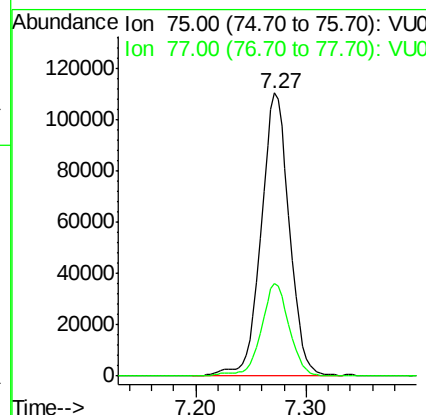
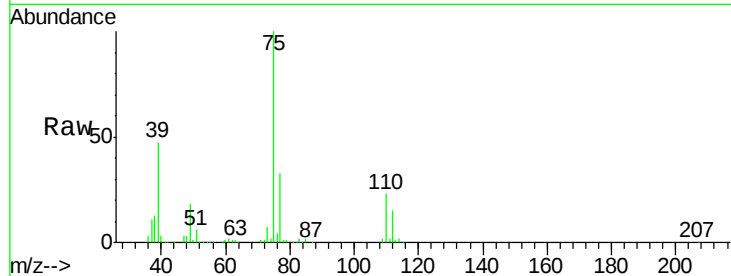




#39
 cis-1,3-Dichloropropene
 Concen: 50.000 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

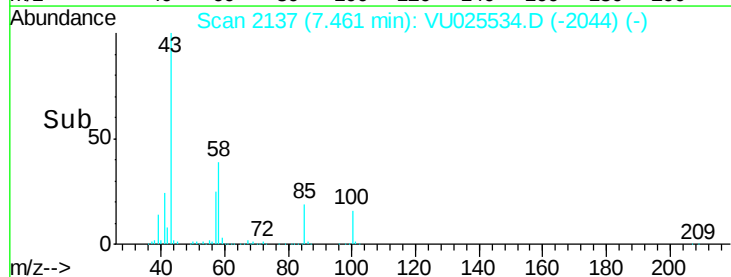
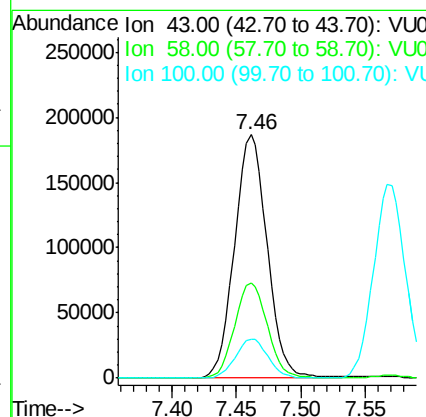
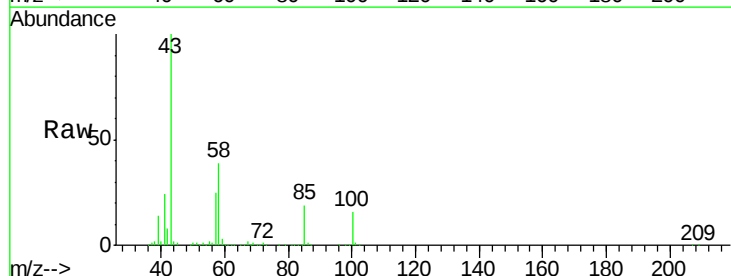
Instrument :
 MSVOA_U
 ClientSampleId :

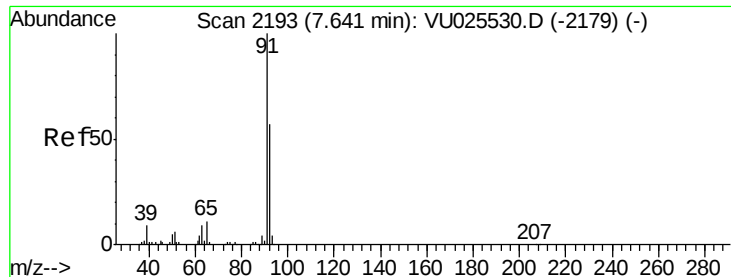
Tot Ion: 75 Resp: 195900
 Ion Ratio Lower Upper
 75 100
 77 32.8 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 99.013 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: 48.358 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

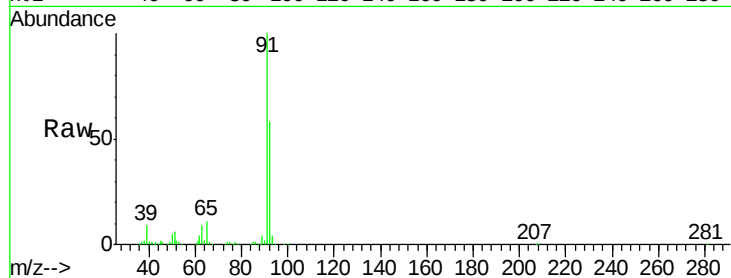
ClientSampled :

Tot Ion: 91 Resp: 481804

Ion Ratio Lower Upper

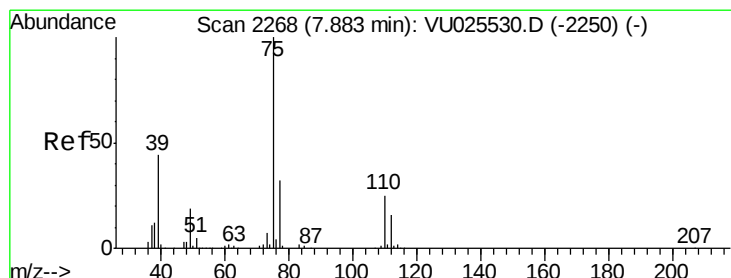
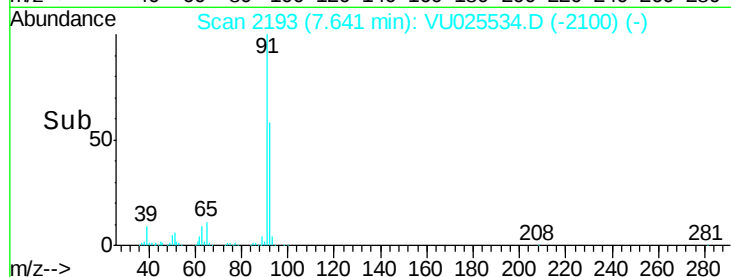
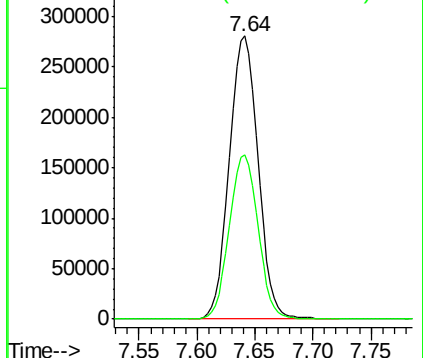
91 100

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: 49.367 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU025534.D

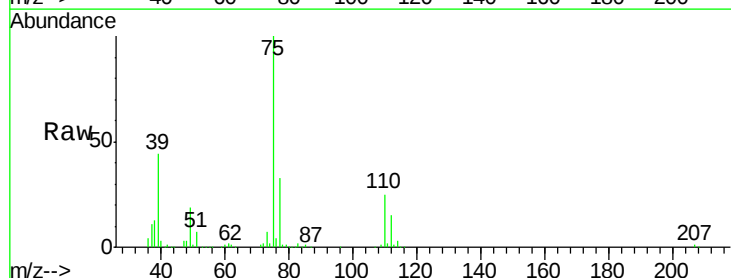
Acq: 20 Jul 2018 12:01

Tgt Ion: 75 Resp: 182367

Ion Ratio Lower Upper

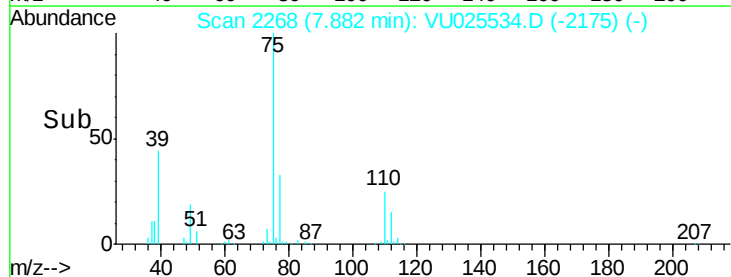
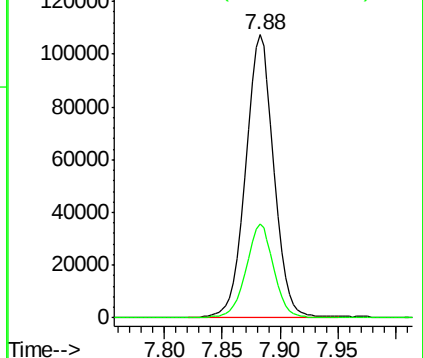
75 100

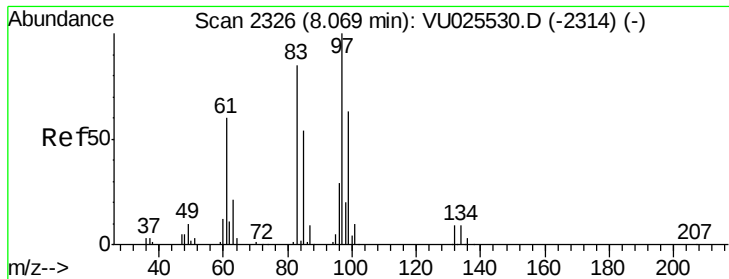
77 33.3 22.2 41.2



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: 47.774 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

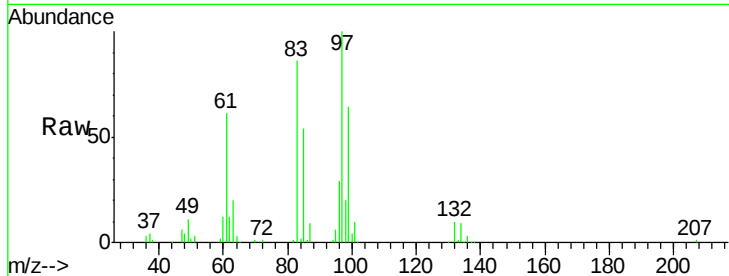
Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.3	82.3
83	85.5	59.8	111.1
85	53.7	37.9	70.5

97 100

99 63.7 44.3 82.3

83 85.5 59.8 111.1

85 53.7 37.9 70.5



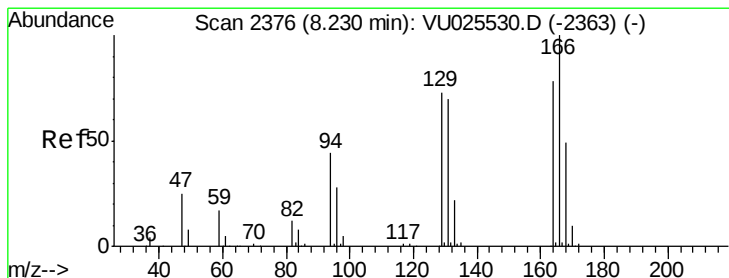
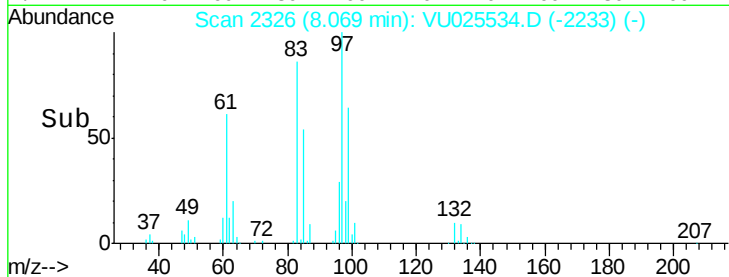
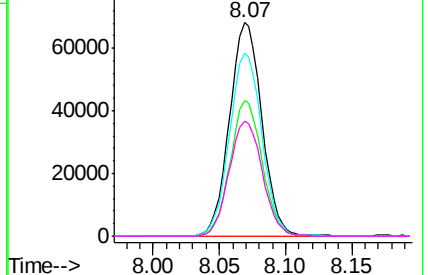
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 49.006 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

164 100

129 91.1 65.1 120.9

131 87.6 62.8 116.6

166 126.4 89.7 166.7

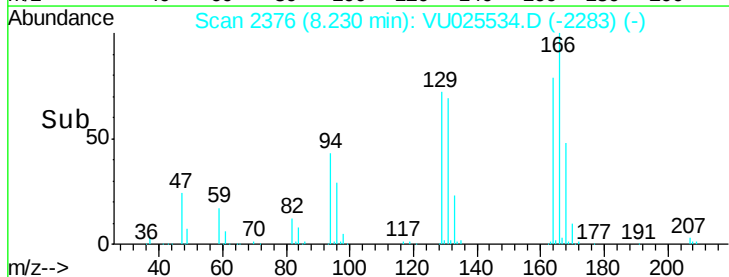
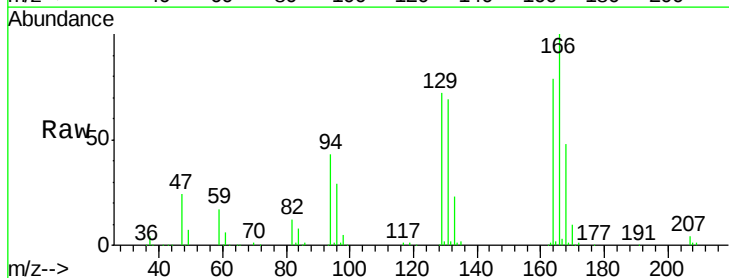
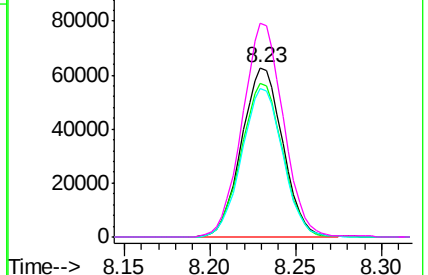
Abundance

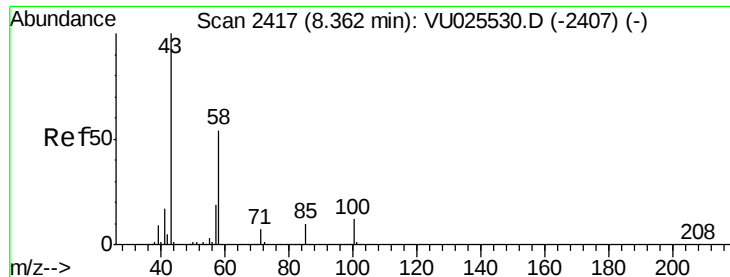
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

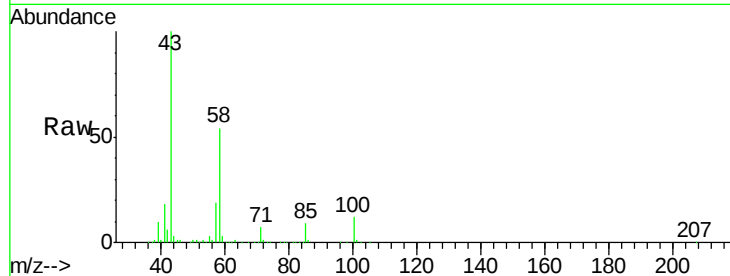




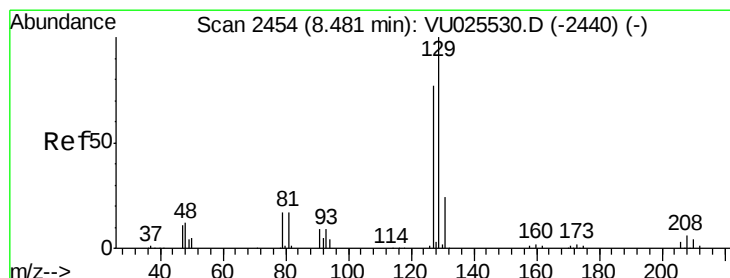
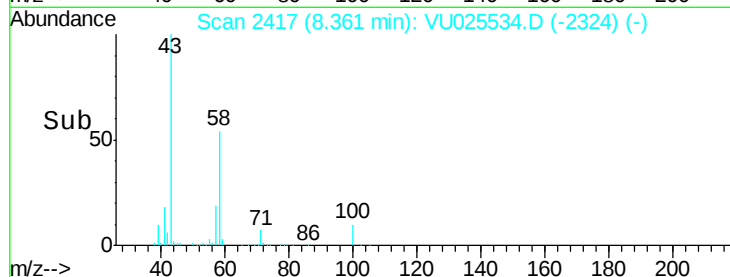
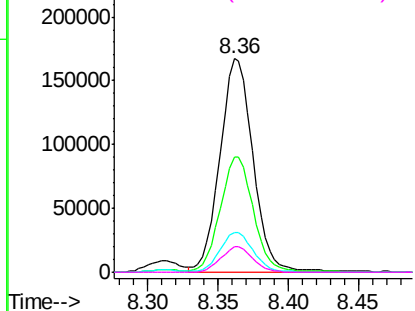
#48
2-Hexanone
Concen: 97.946 ug/L
RT: 8.36 min Scan# 2417
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

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

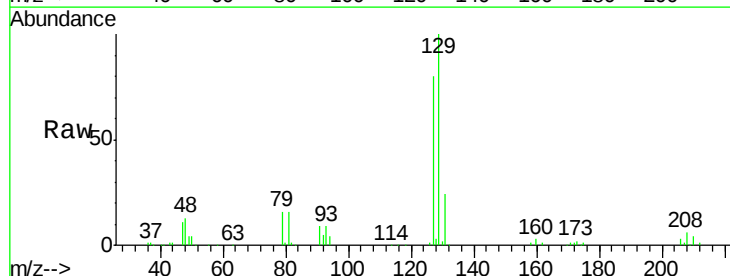


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

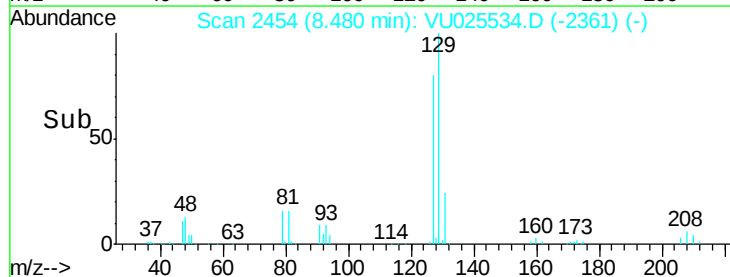
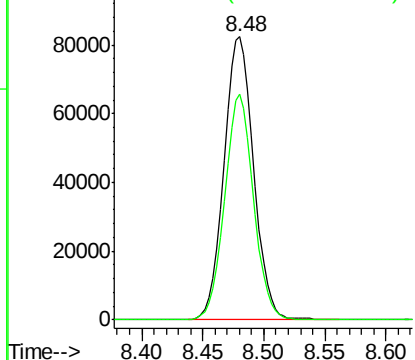


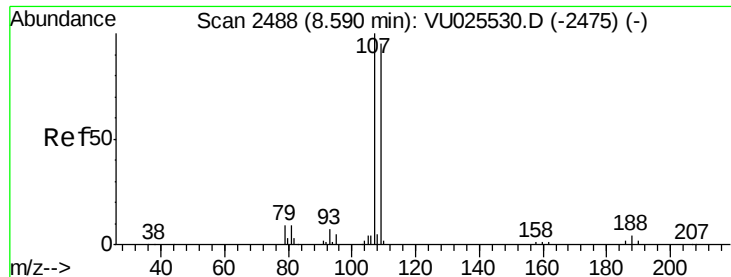
#49
Dibromochloromethane
Concen: 49.453 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

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



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

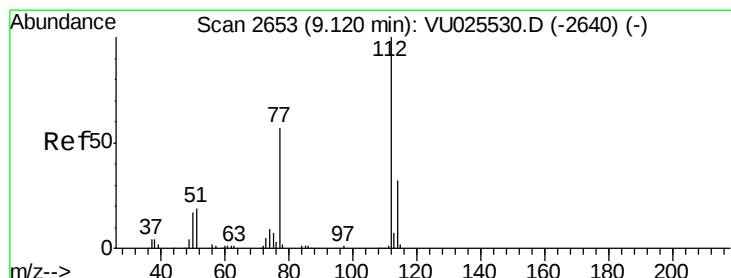
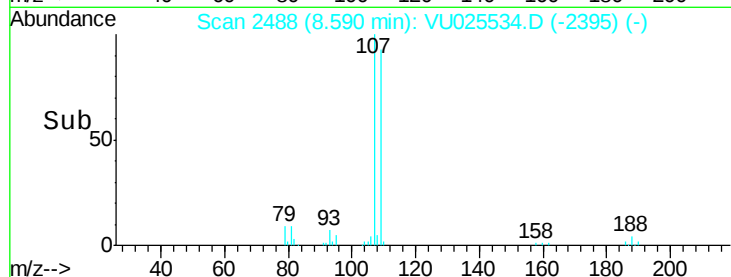
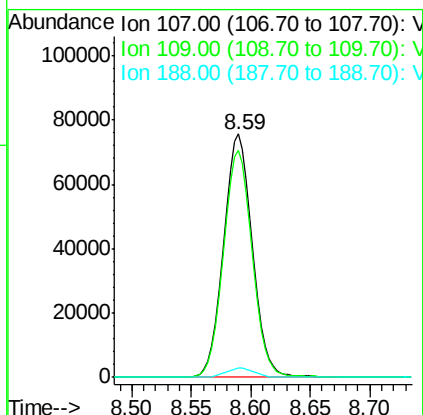
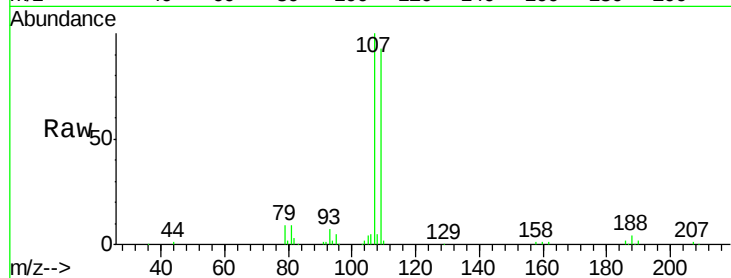




#50
 1,2-Dibromoethane
 Concen: 48.449 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

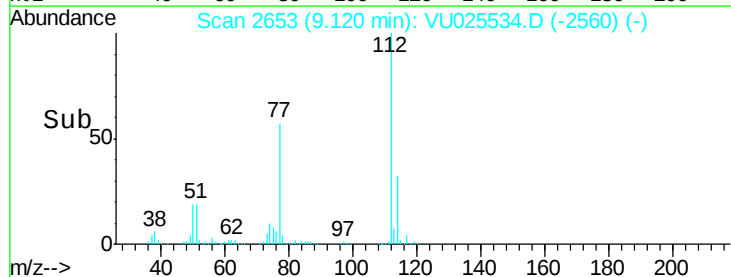
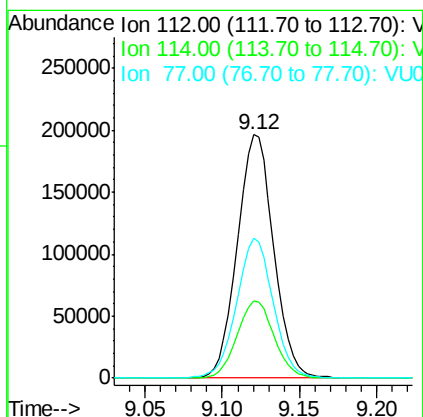
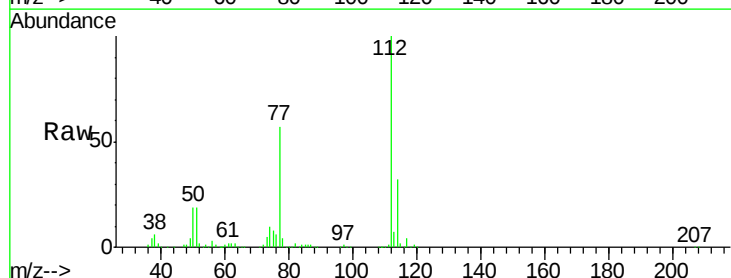
Instrument :
 MSVOA_U
 ClientSampleId :

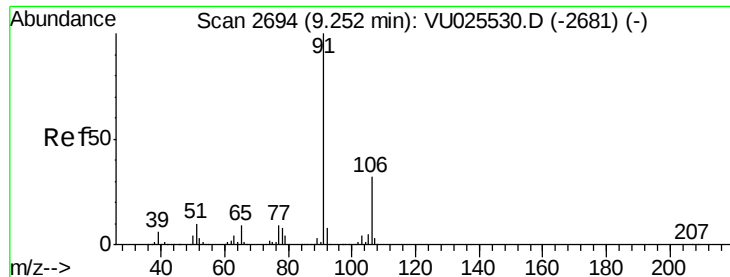
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.0	66.6	123.8
188	3.9	3.2	4.8



#51
 Chlorobenzene
 Concen: 47.804 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	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.9
77	57.2	45.8	68.8





#52

Ethylbenzene

Concen: 49.383 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

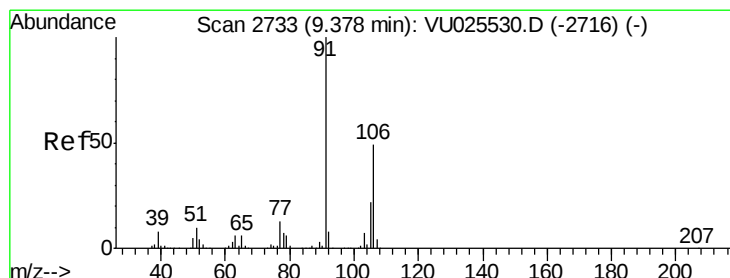
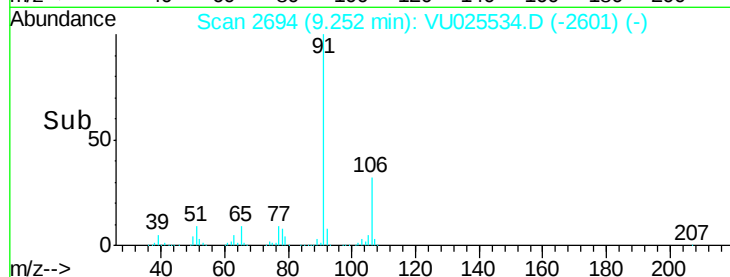
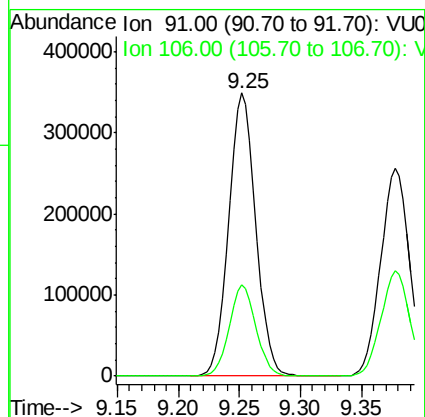
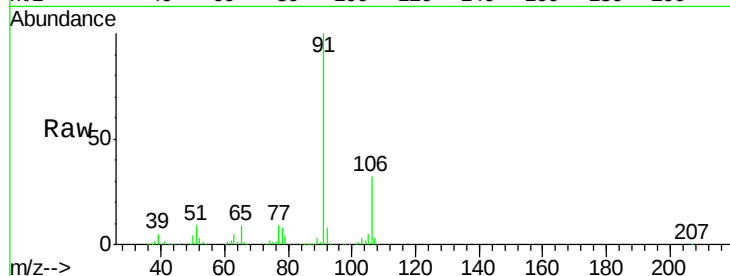
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 543042

Ion Ratio Lower Upper

91 100

106 32.4 22.3 41.5



#53

m,p-Xylene

Concen: 50.097 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025534.D

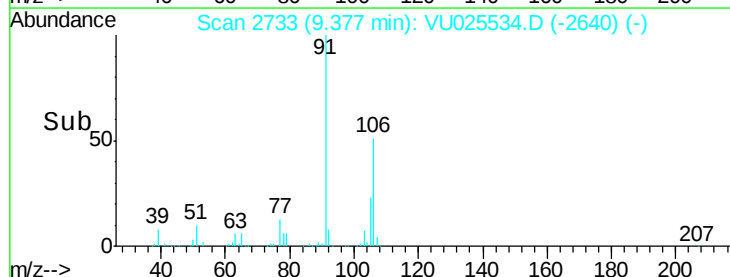
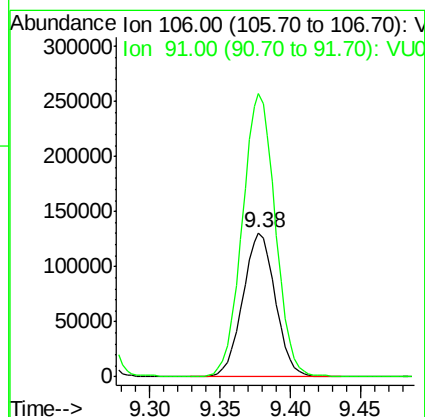
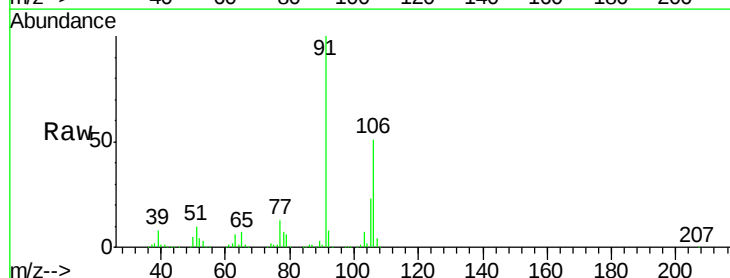
Acq: 20 Jul 2018 12:01

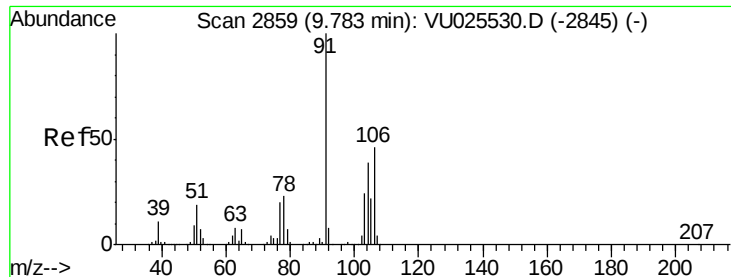
Tgt Ion: 106 Resp: 211012

Ion Ratio Lower Upper

106 100

91 196.5 141.7 263.3

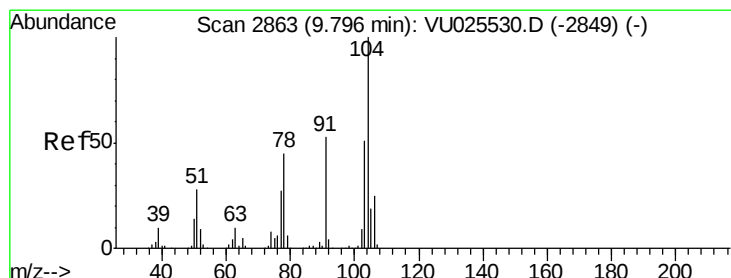
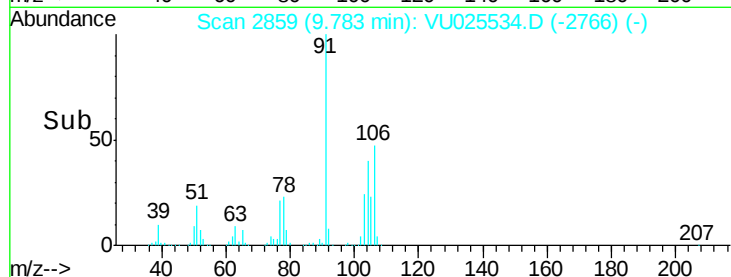
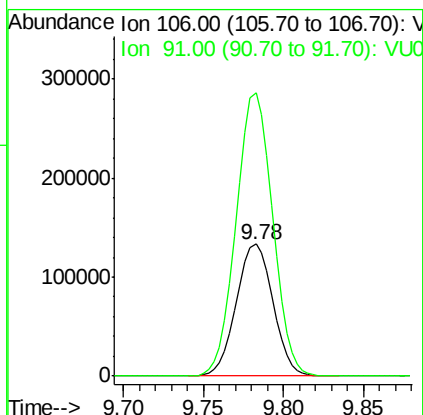
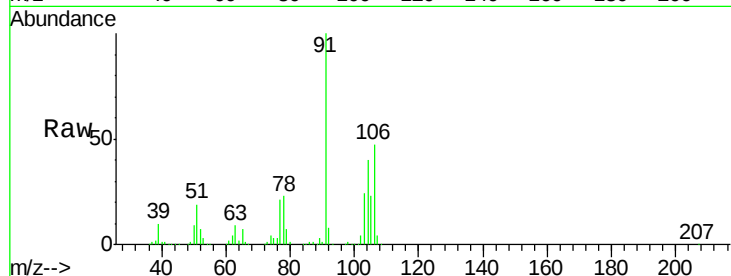




#54
o-xylene
Concen: 48.730 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU025534.D
Acq: 20 Jul 2018 12:01

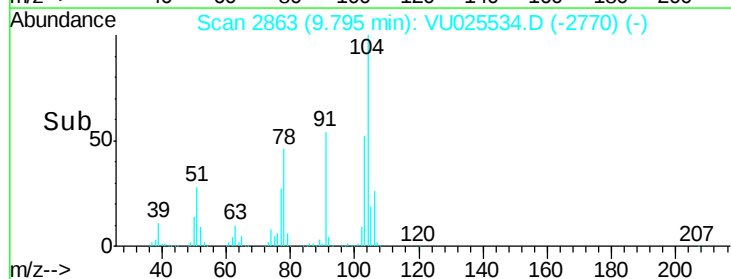
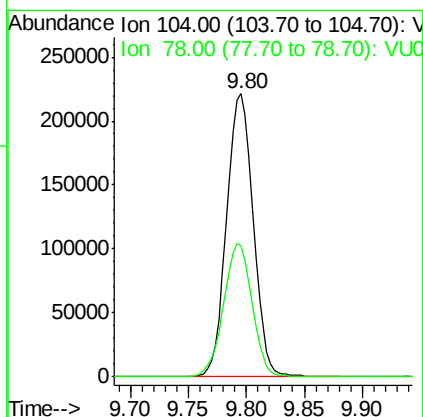
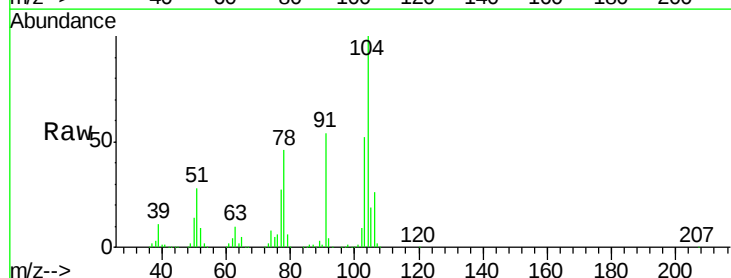
Instrument :
MSVOA_U
ClientSampleId :

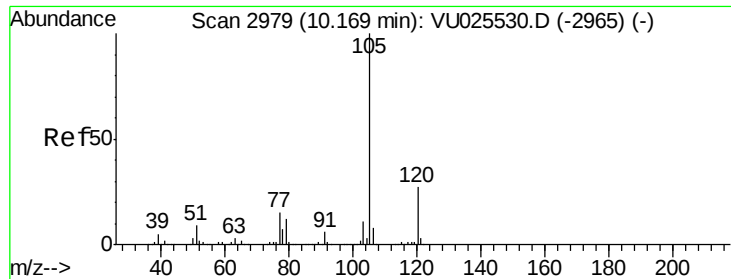
Tot Ion:106 Resp: 208272
Ion Ratio Lower Upper
106 100
91 214.3 150.6 279.6



#55
Styrene
Concen: 50.388 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





#56

Isopropylbenzene

Concen: 49.532 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 :

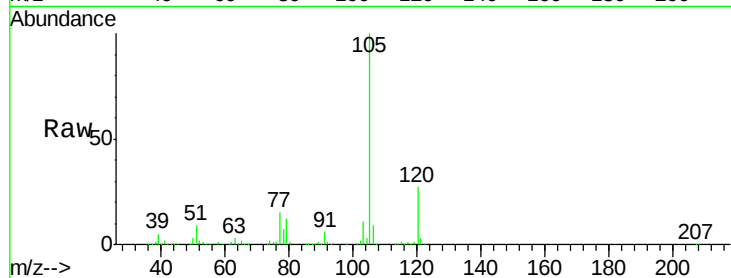
Tot Ion:105 Resp: 546337

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

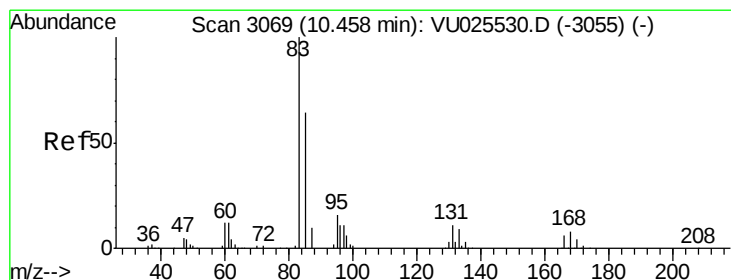
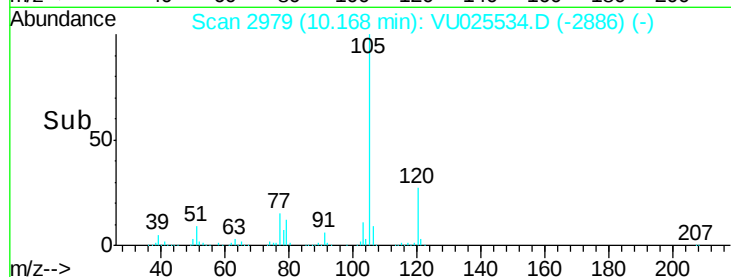
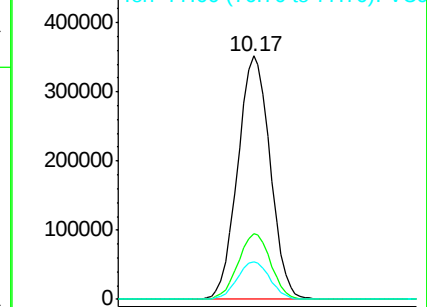
77 15.5 12.4 18.6



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: 48.682 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

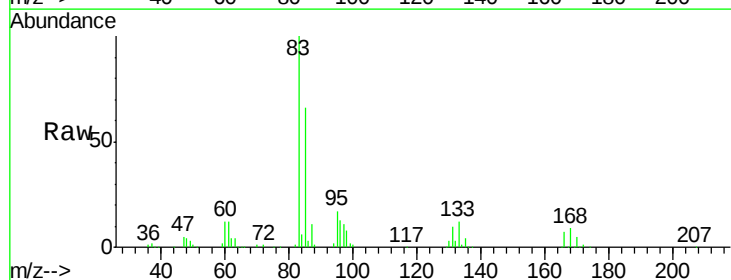
Tgt Ion: 83 Resp: 190160

Ion Ratio Lower Upper

83 100

85 66.1 45.1 83.7

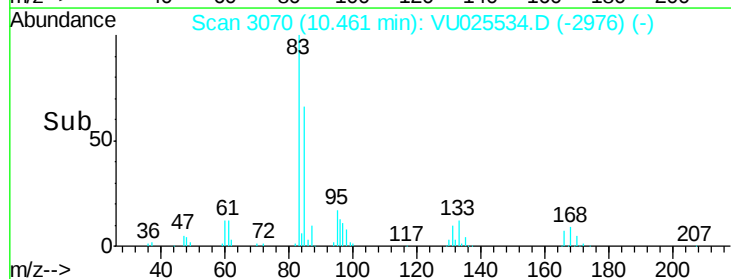
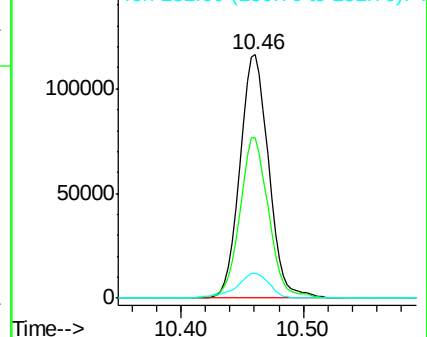
131 10.2 8.7 13.1

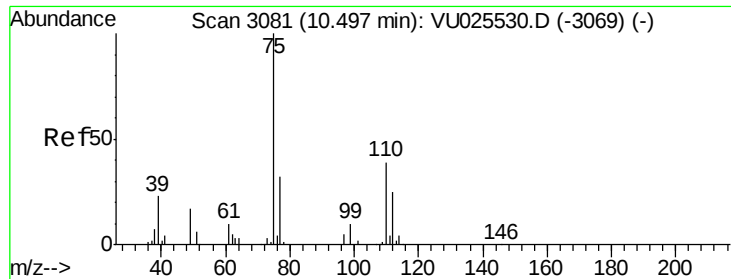


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.421 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

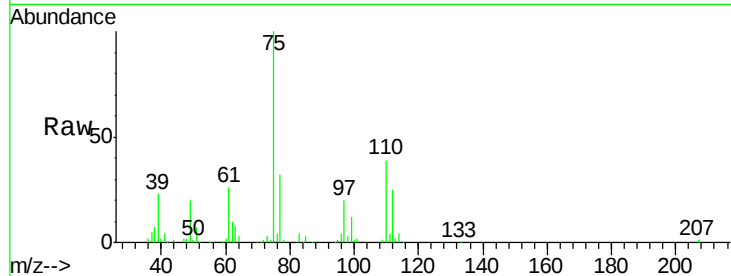
ClientSampleId :

Tot Ion: 75 Resp: 143586

Ion Ratio Lower Upper

75 100

77 32.4 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.50

80000

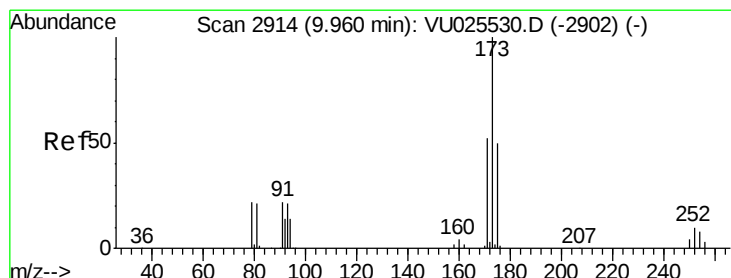
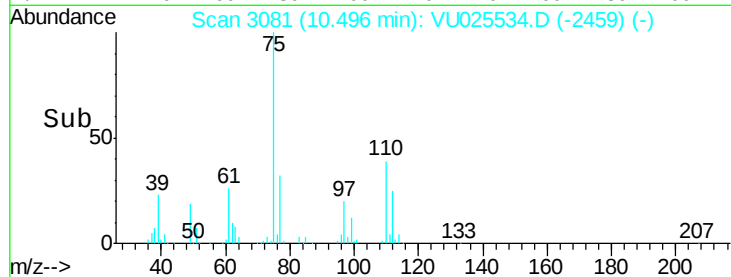
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 47.685 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

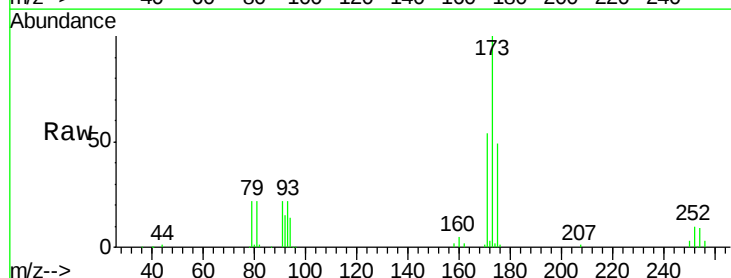
Tgt Ion: 173 Resp: 103139

Ion Ratio Lower Upper

173 100

175 48.8 39.8 59.8

254 9.4 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

9.96

80000

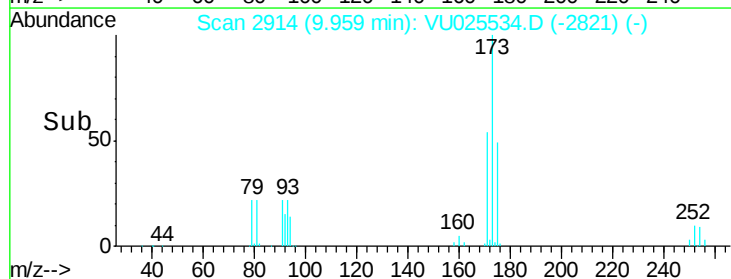
60000

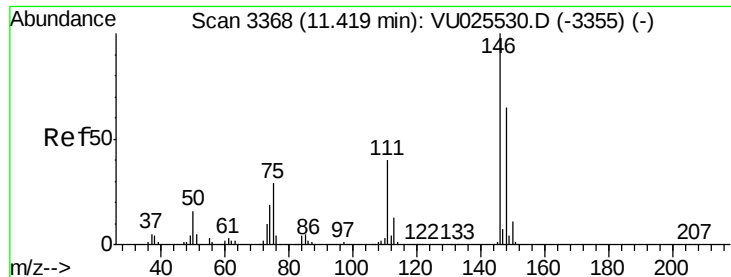
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.867 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 :

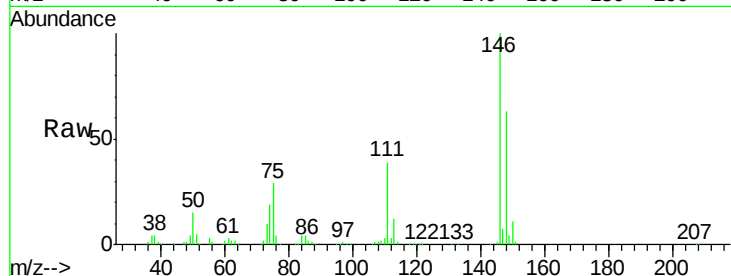
Tot Ion:146 Resp: 263762

Ion Ratio Lower Upper

146 100

111 39.1 27.7 51.5

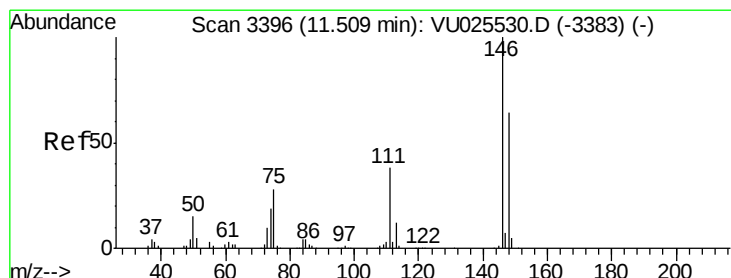
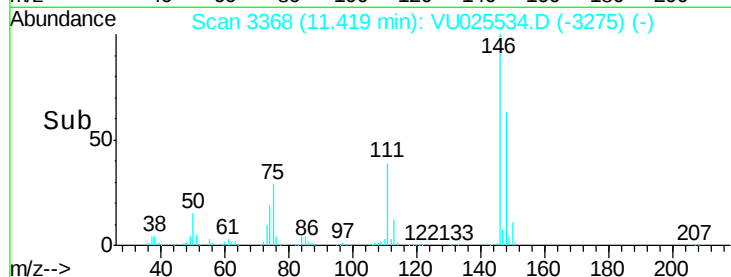
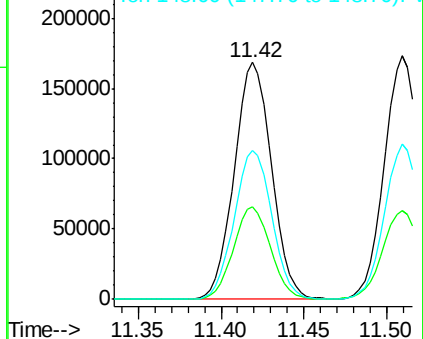
148 63.1 45.5 84.5



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



#63

1,4-Dichlorobenzene

Concen: 49.297 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

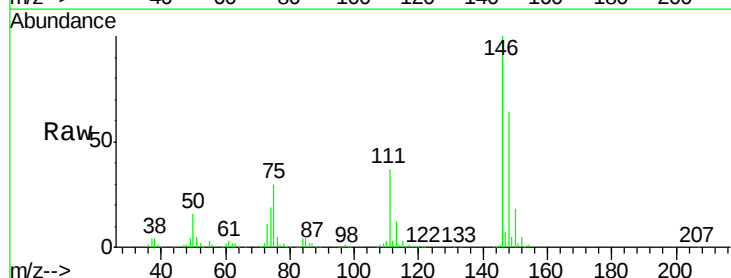
Tgt Ion:146 Resp: 266163

Ion Ratio Lower Upper

146 100

111 36.5 26.9 49.9

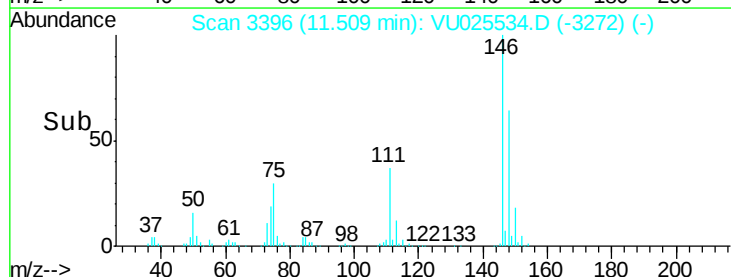
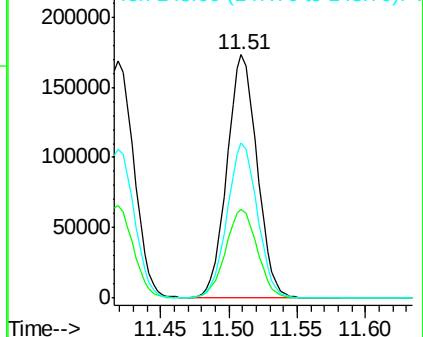
148 63.6 44.6 82.8

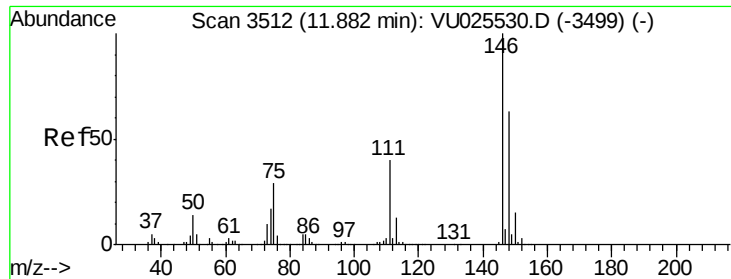


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

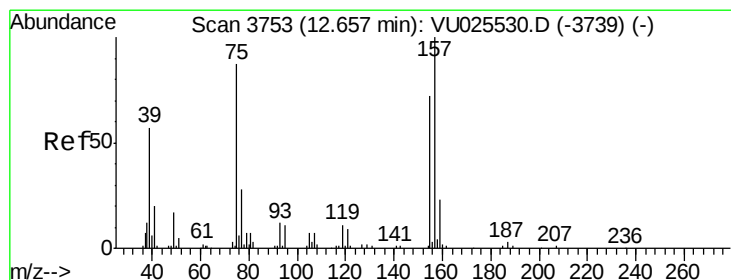
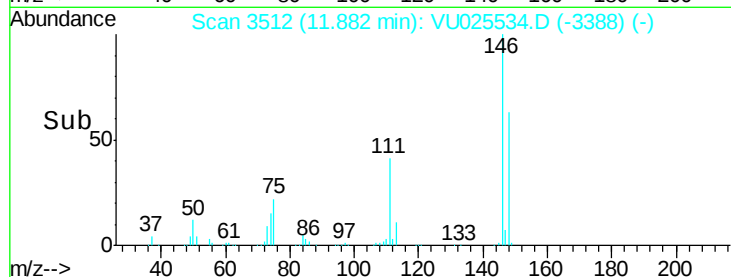
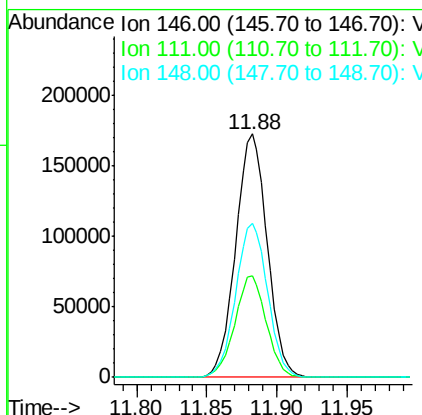
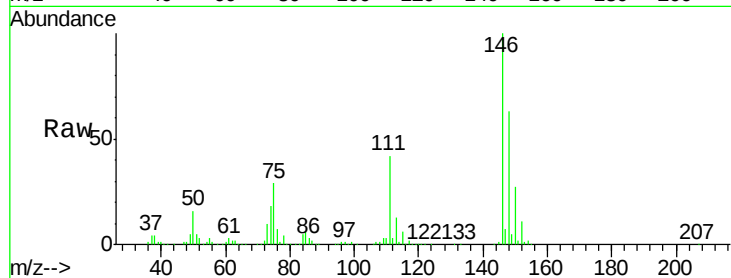




#65
 1,2-Dichlorobenzene
 Concen: 48.851 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

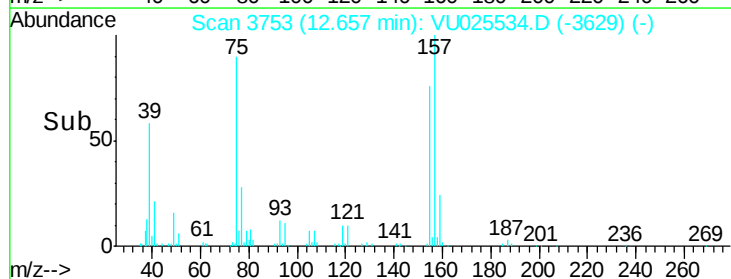
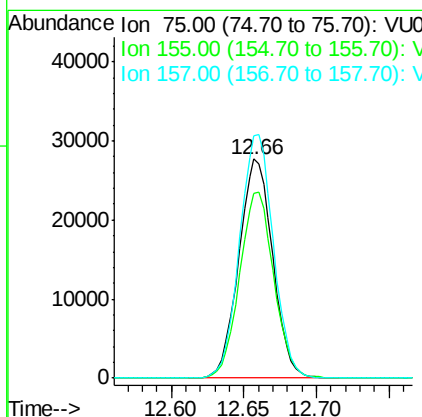
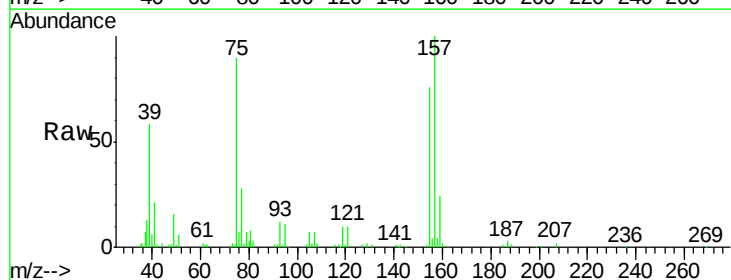
Instrument :
 MSVOA_U
 ClientSampleId :

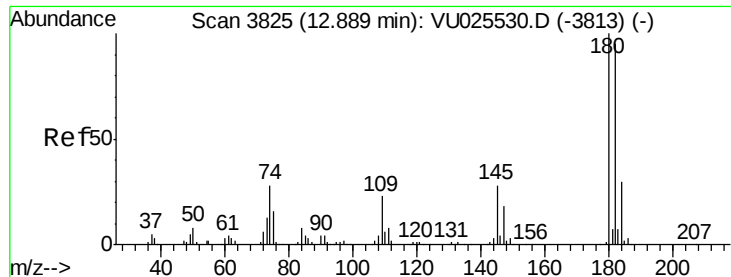
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	32.4	48.6
148	63.3	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.597 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

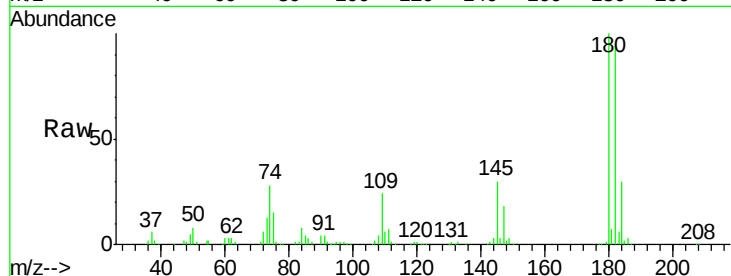




#67
 1,3,5-Trichlorobenzene
 Concen: 51.120 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	180	Resp	208713
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

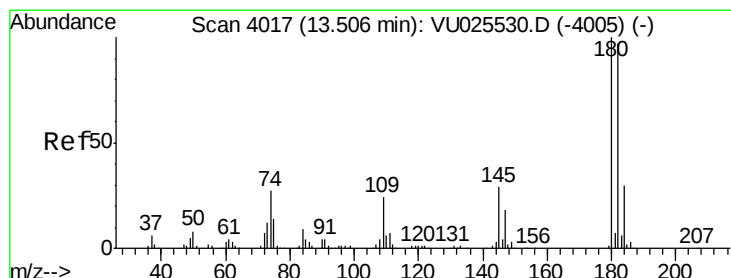
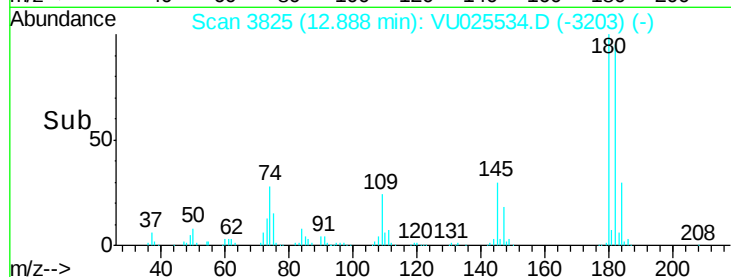
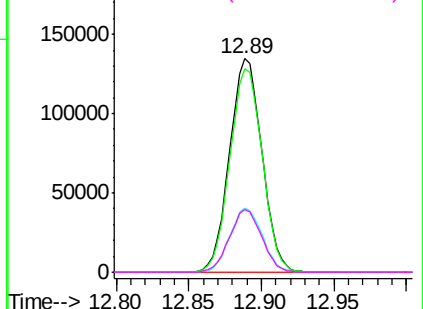


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

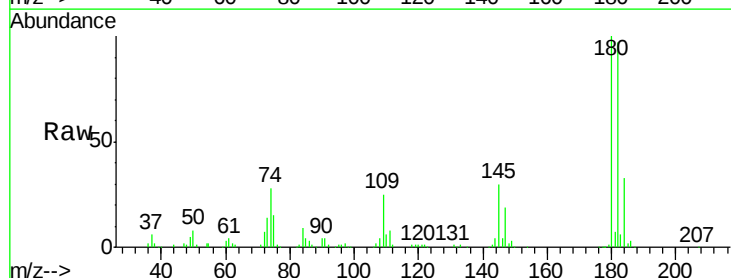
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.299 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025534.D
 Acq: 20 Jul 2018 12:01

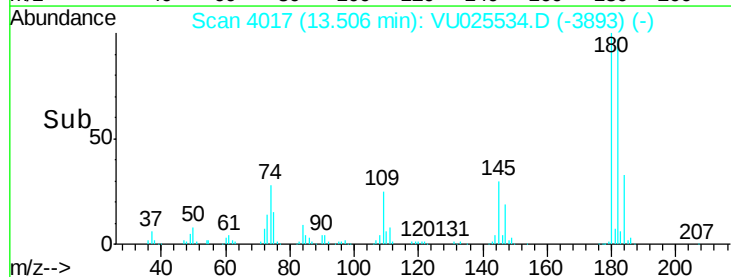
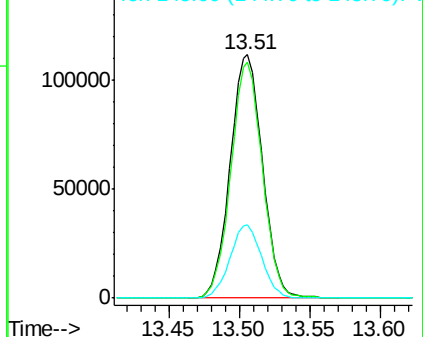
Tgt Ion	180	Resp	179458
Ion Ratio	Lower	Upper	
180	100		
182	94.6	78.1	117.1
145	29.8	23.4	35.2

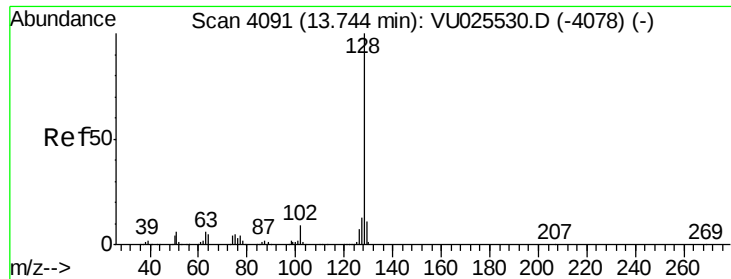


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.243 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 :

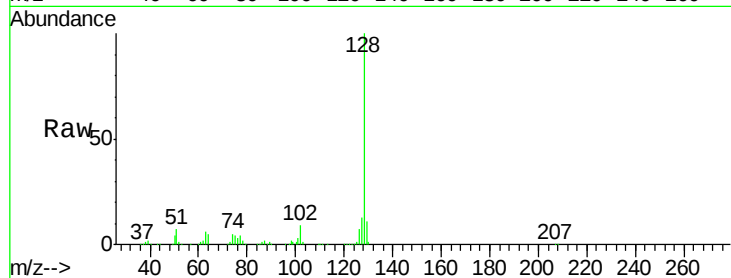
Tot Ion:128 Resp: 549411

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

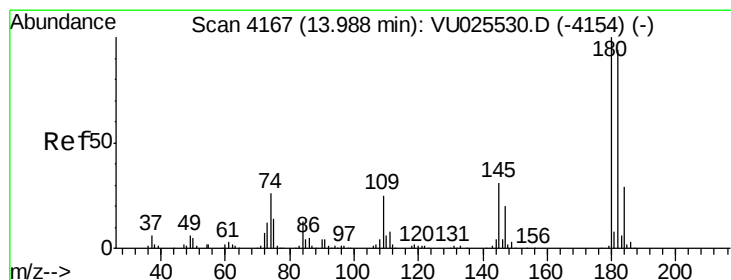
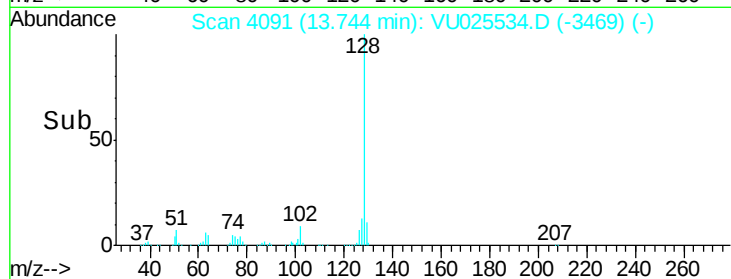
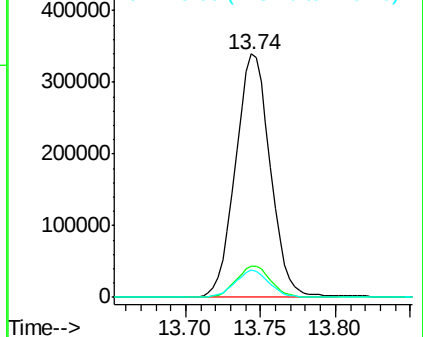
129 10.9 8.4 12.6



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: 51.844 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU025534.D

Acq: 20 Jul 2018 12:01

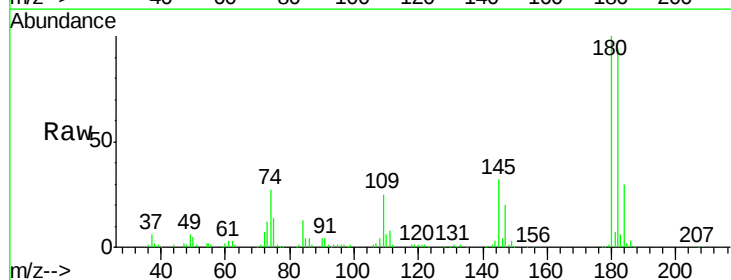
Tgt Ion:180 Resp: 188055

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

