

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\
 Data File : VU026055.D
 Acq On : 10 Aug 2018 20:59
 Operator : MD/SY
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 11 03:48:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Aug 11 00:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	309865	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	296098	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	151260	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	90213	39.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.66%
7) Chloroethane-d5	1.67	69	71737	39.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.90%
11) 1,1-Dichloroethene-d2	2.27	63	178453	41.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.92%
21) 2-Butanone-d5	4.18	46	120922	64.06	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	64.06%
24) Chloroform-d	4.65	84	184605	38.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	76.88%
26) 1,2-Dichloroethane-d4	5.31	65	117089	36.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	72.18%
32) Benzene-d6	5.34	84	353688	38.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	76.94%
36) 1,2-Dichloropropane-d6	6.33	67	110263	37.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	74.12%
41) Toluene-d8	7.57	98	340544	38.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	77.42%#
43) trans-1,3-Dichloropropene-	7.85	79	53212	35.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.00%
47) 2-Hexanone-d5	8.31	63	86739	64.19	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	64.19%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	153715	35.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	70.66%
64) 1,2-Dichlorobenzene-d4	11.86	152	133112	35.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	71.40%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	125627	46.536	ug/L	99
3) Chloromethane	1.33	50	117760	48.615	ug/L	99
5) Vinyl chloride	1.40	62	113300	48.474	ug/L	99
6) Bromomethane	1.62	94	63938	51.156	ug/L	99
8) Chloroethane	1.69	64	69162	49.243	ug/L	94
9) Trichlorofluoromethane	1.88	101	164251	49.117	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	88277	45.379	ug/L	99
12) 1,1-Dichloroethene	2.28	96	80886	45.213	ug/L	87
13) Acetone	2.32	43	103972	88.661	ug/L	99
14) Carbon disulfide	2.48	76	286912	48.748	ug/L	99
15) Methyl Acetate	2.62	43	116633	47.482	ug/L	98
16) Methylene chloride	2.70	84	112616	49.309	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	100697	50.517	ug/L	96
18) Methyl tert-butyl Ether	3.00	73	324264	49.501	ug/L	99
19) 1,1-Dichloroethane	3.45	63	196706	50.879	ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	113146	49.332	ug/L	99
22) 2-Butanone	4.26	43	164167	96.750	ug/L	98

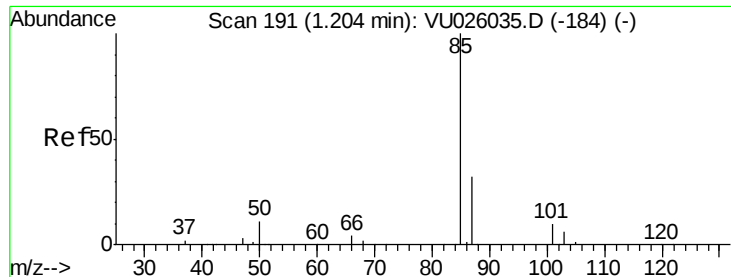
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081018\
 Data File : VU026055.D
 Acq On : 10 Aug 2018 20:59
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 Quant Title : VOC Analysis
 QLast Update : Sat Aug 11 00:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	61398	50.261	ug/L	98
25) Chloroform	4.68	83	202668	50.341	ug/L	99
27) 1,2-Dichloroethane	5.41	62	162330	48.819	ug/L	98
29) Cyclohexane	5.00	56	157610	47.626	ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	180569	48.333	ug/L	99
31) Carbon tetrachloride	5.14	117	166041	48.671	ug/L	99
33) Benzene	5.39	78	422325	50.077	ug/L	100
34) Trichloroethene	6.19	95	108232	49.125	ug/L	97
35) Methylcyclohexane	6.42	83	163305	48.544	ug/L	99
37) 1,2-Dichloropropane	6.44	63	117753	51.029	ug/L	100
38) Bromodichloromethane	6.76	83	153115	49.805	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	173518	49.615	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	307440	96.966	ug/L	100
42) Toluene	7.64	91	453225	50.631	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	166136	49.908	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	108817	49.462	ug/L	97
46) Tetrachloroethene	8.23	164	92901	49.548	ug/L	97
48) 2-Hexanone	8.36	43	241699	97.849	ug/L	98
49) Dibromochloromethane	8.48	129	133972	50.500	ug/L	99
50) 1,2-Dibromoethane	8.59	107	118203	49.332	ug/L	98
51) Chlorobenzene	9.12	112	301306	49.921	ug/L	99
52) Ethylbenzene	9.25	91	498316	50.874	ug/L	99
53) m,p-Xylene	9.38	106	193776	51.772	ug/L	98
54) o-xylene	9.78	106	190325	51.236	ug/L	98
55) Styrene	9.80	104	328562	53.126	ug/L	99
56) Isopropylbenzene	10.17	105	501638	52.419	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	183430	49.058	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	146303	49.159	ug/L	99
61) Bromoform	9.96	173	100964	49.299	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	231473	49.155	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	239628	48.543	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	246344	49.147	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	40499	46.035	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	172892	49.125	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	146698	49.290	ug/L	99
69) Naphthalene	13.74	128	449213	46.786	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	155440	48.593	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 46.536 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

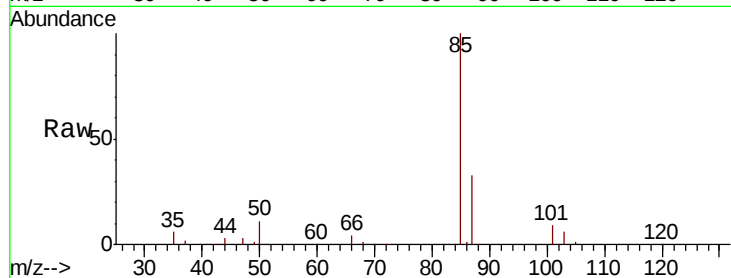
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 125627

Ion Ratio Lower Upper

85 100

87 33.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU026035.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU026035.D (-184) (-)

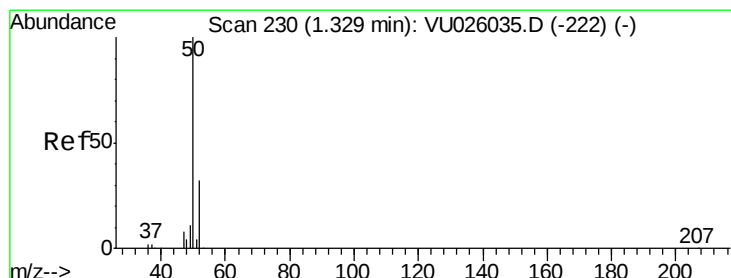
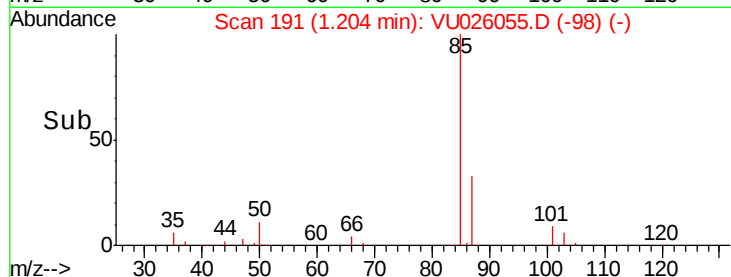
1.20

100000

50000

0

Time-->



#3

Chloromethane

Concen: 48.615 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU026055.D

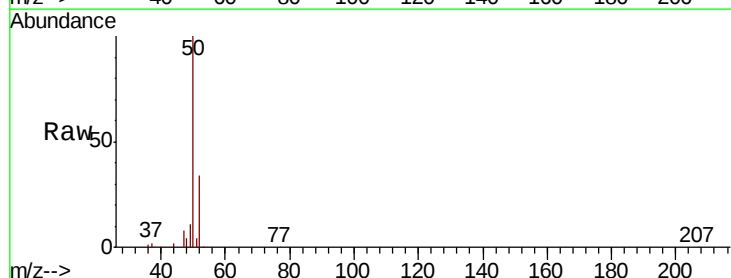
Acq: 10 Aug 2018 20:59

Tgt Ion: 50 Resp: 117760

Ion Ratio Lower Upper

50 100

52 33.8 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU026035.D (-222) (-)

Ion 52.00 (51.70 to 52.70): VU026035.D (-222) (-)

1.33

120000

100000

80000

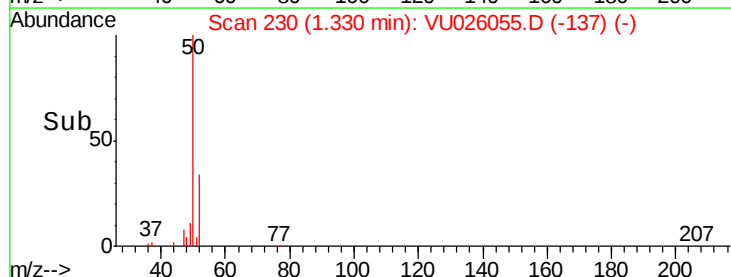
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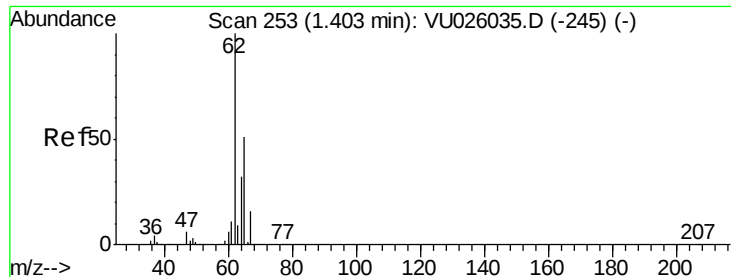
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 48.474 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

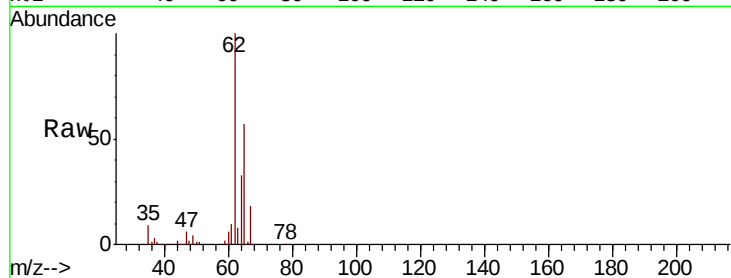
ClientSampleId :

Tot Ion: 62 Resp: 113300

Ion Ratio Lower Upper

62 100

64 33.1 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

120000

100000

80000

60000

40000

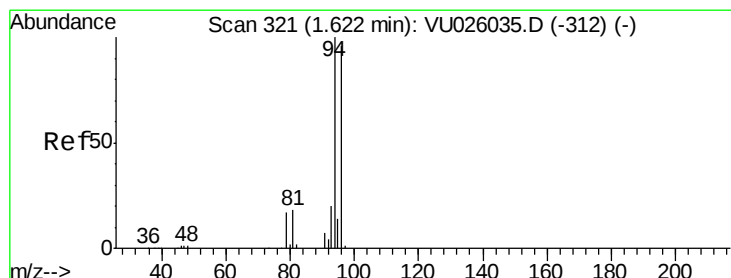
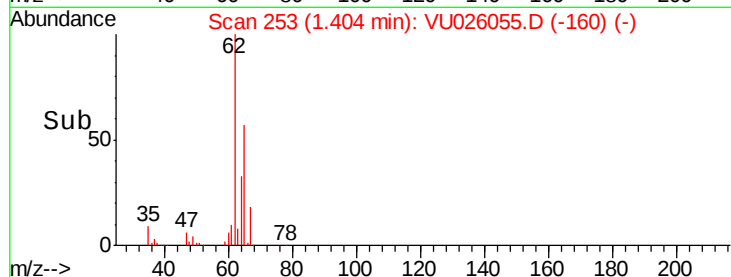
20000

0

1.40

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 51.156 ug/L

RT: 1.62 min Scan# 319

Delta R.T. -0.01 min

Lab File: VU026055.D

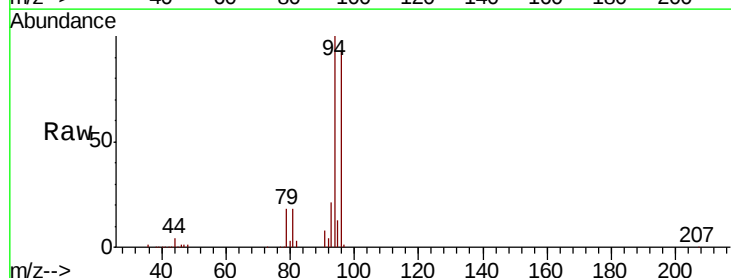
Acq: 10 Aug 2018 20:59

Tgt Ion: 94 Resp: 63938

Ion Ratio Lower Upper

94 100

96 92.8 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

60000

50000

40000

30000

20000

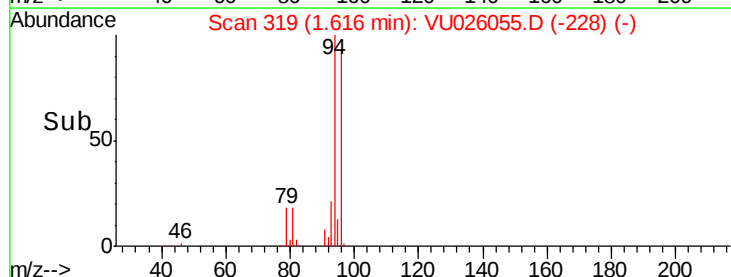
10000

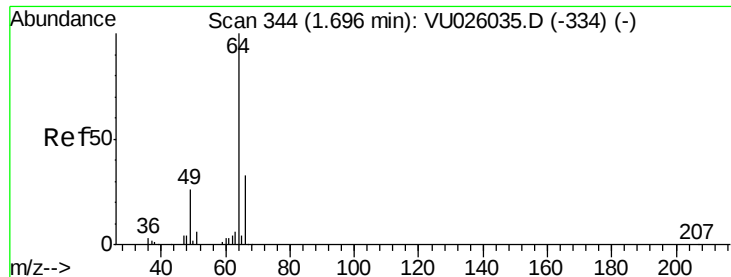
0

1.62

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 49.243 ug/L

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

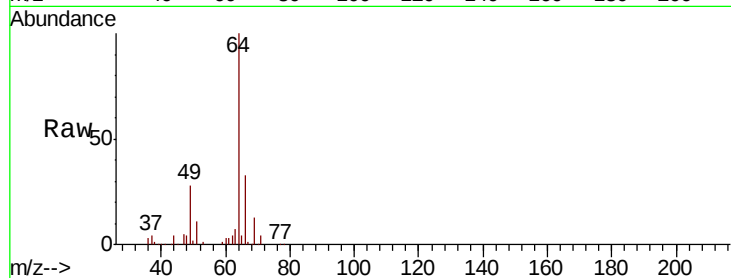
ClientSampled :

Tot Ion: 64 Resp: 69162

Ion Ratio Lower Upper

64 100

66 33.5 21.2 39.4



Abundance Ion 64.00 (63.70 to 64.70): VU026035.D (-334) (-)

Ion 66.00 (65.70 to 66.70): VU026035.D (-334) (-)

1.69

60000

50000

40000

30000

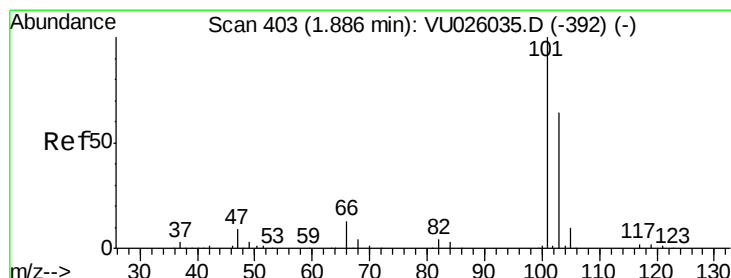
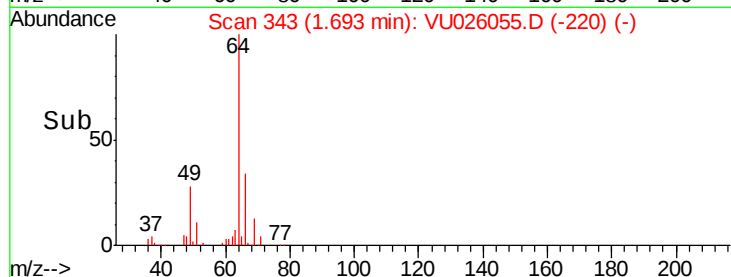
20000

10000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 49.117 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU026055.D

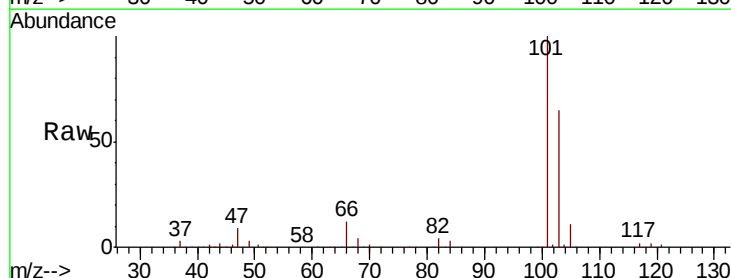
Acq: 10 Aug 2018 20:59

Tgt Ion:101 Resp: 164251

Ion Ratio Lower Upper

101 100

103 65.2 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VU026035.D (-392) (-)

Ion 103.00 (102.70 to 103.70): VU026035.D (-392) (-)

1.88

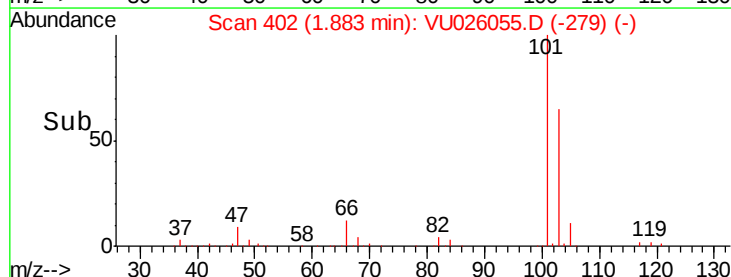
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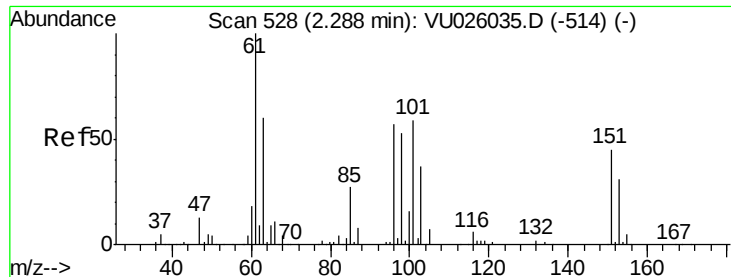
50000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 45.379 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

ClientSampleId :

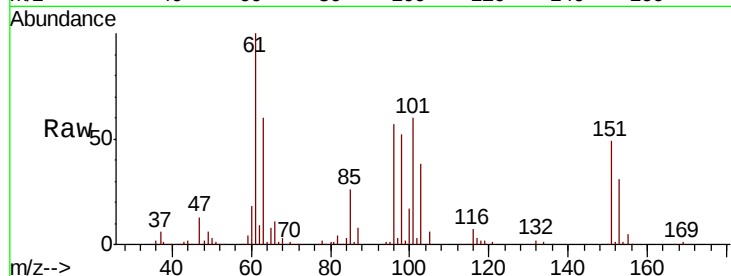
Tot Ion:101 Resp: 88277

Ion Ratio Lower Upper

101 100

85 44.2 36.0 54.0

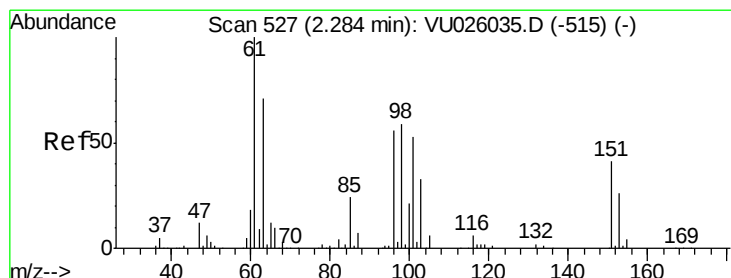
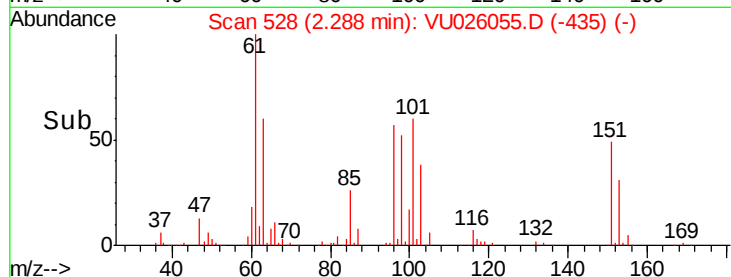
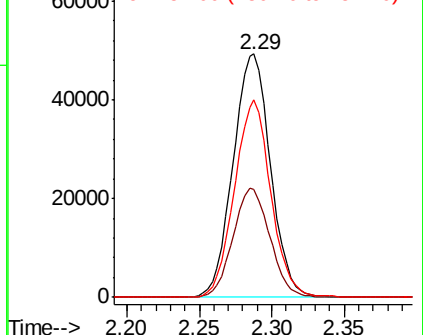
151 79.0 64.2 96.2



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: 45.213 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

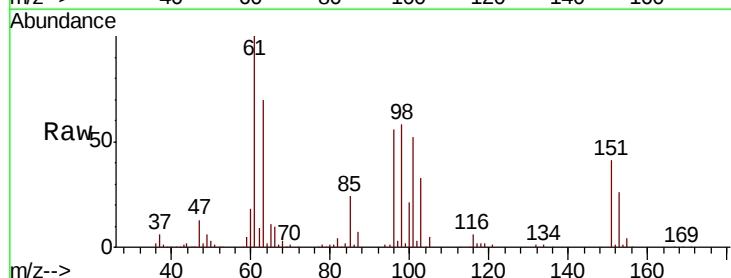
Tgt Ion: 96 Resp: 80886

Ion Ratio Lower Upper

96 100

61 178.3 121.2 225.2

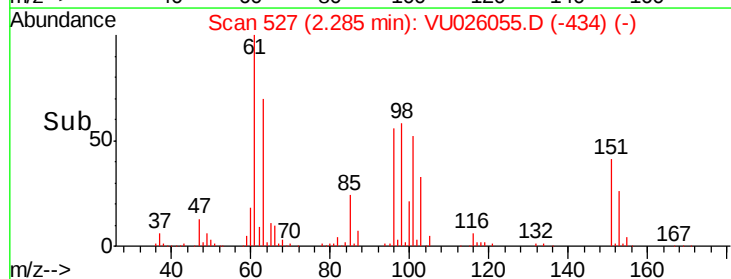
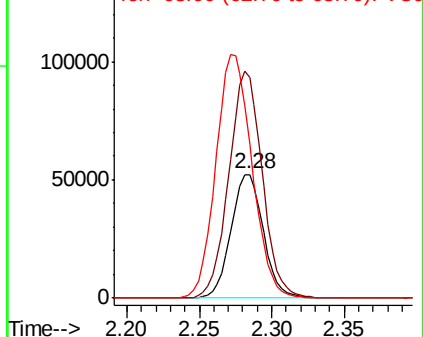
63 124.6 108.7 201.9

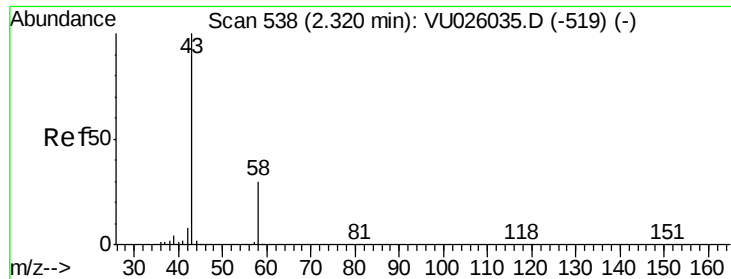


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 88.661 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

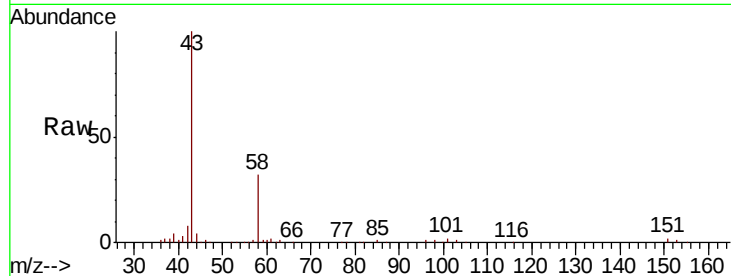
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 103972

Ion Ratio Lower Upper

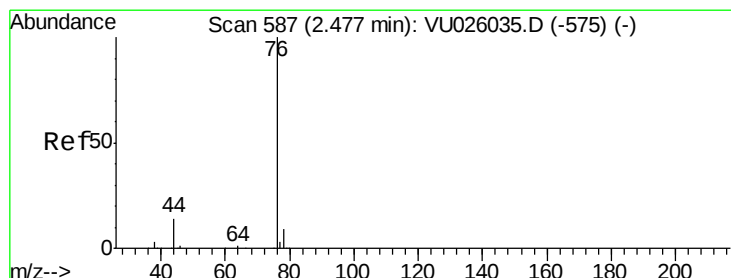
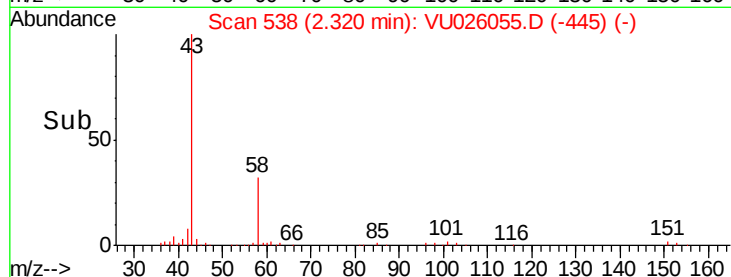
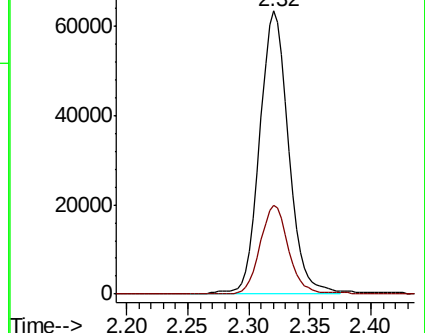
43 100

58 30.3 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VU026035.D (-519) (-)

Ion 58.00 (57.70 to 58.70): VU026035.D (-519) (-)



#14

Carbon disulfide

Concen: 48.748 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU026055.D

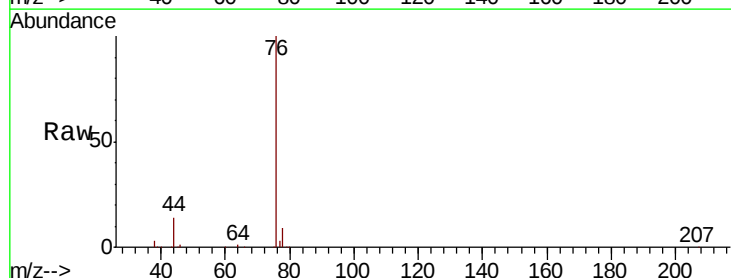
Acq: 10 Aug 2018 20:59

Tgt Ion: 76 Resp: 286912

Ion Ratio Lower Upper

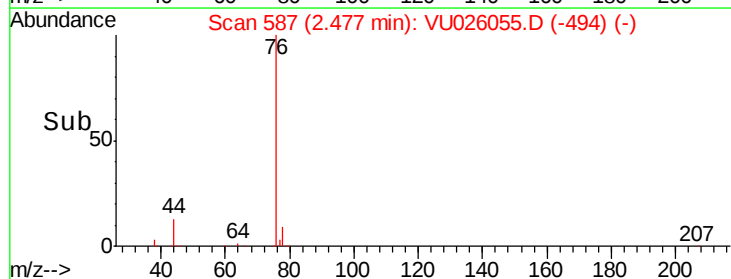
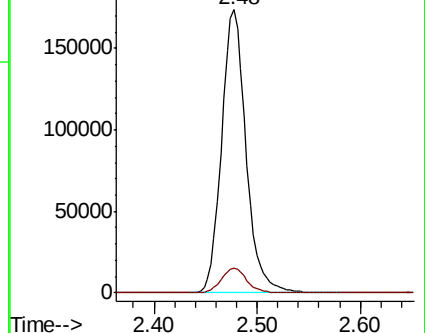
76 100

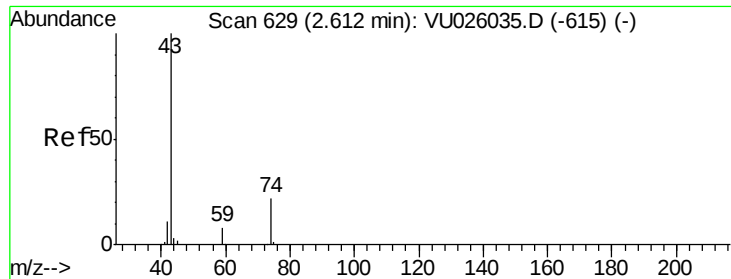
78 8.7 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU026035.D (-575) (-)

Ion 78.00 (77.70 to 78.70): VU026035.D (-575) (-)





#15

Methvl Acetate

Concen: 47.482 ug/L

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

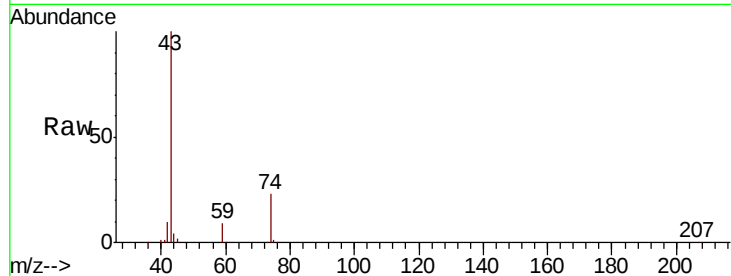
ClientSampleId :

Tot Ion: 43 Resp: 116633

Ion Ratio Lower Upper

43 100

74 23.2 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

80000

60000

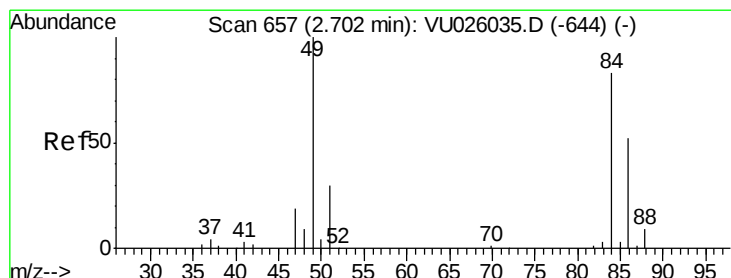
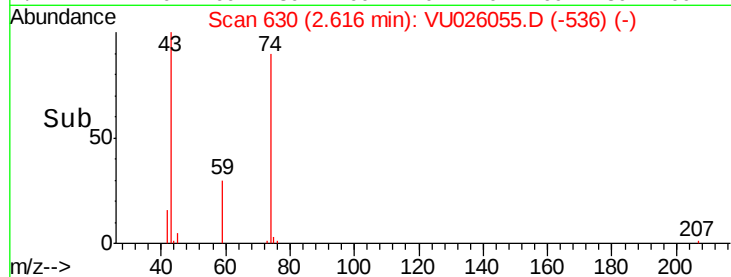
40000

20000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 49.309 ug/L

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

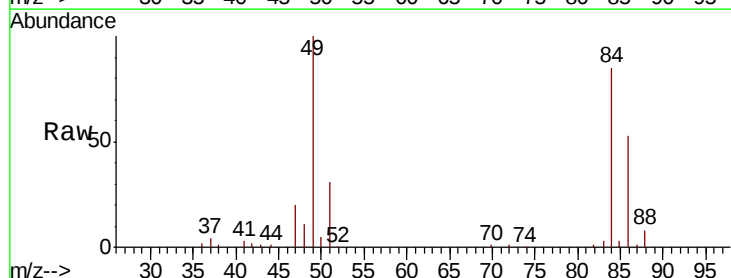
Tgt Ion: 84 Resp: 112616

Ion Ratio Lower Upper

84 100

86 63.0 45.8 85.0

49 117.9 85.0 157.8



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

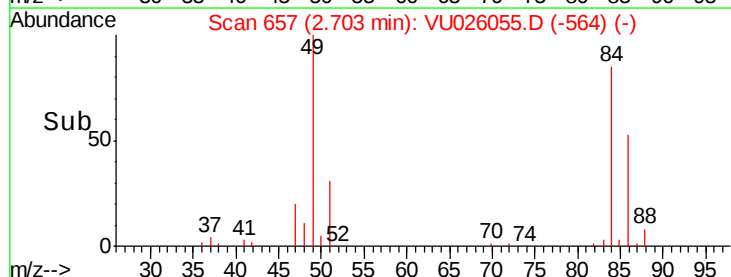
40000

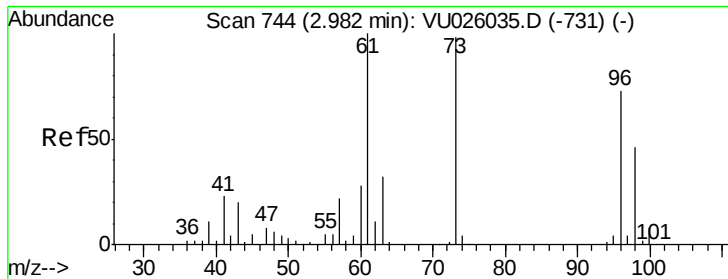
20000

0

Time-->

2.65 2.70 2.75 2.80

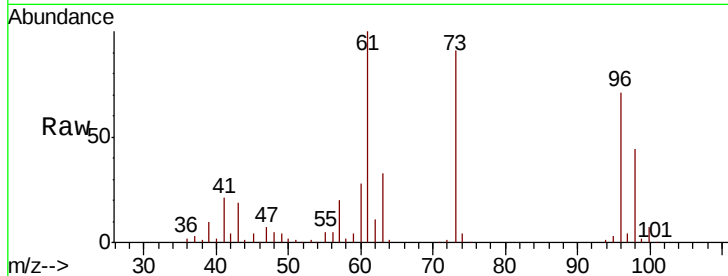




#17
trans-1,2-Dichloroethene
Concen: 50.517 ug/L
RT: 2.98 min Scan# 744
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	96	Resp	100697
Ion	Ratio	Lower	Upper
96	100		
61	140.9	102.8	190.8
98	62.6	44.7	83.1

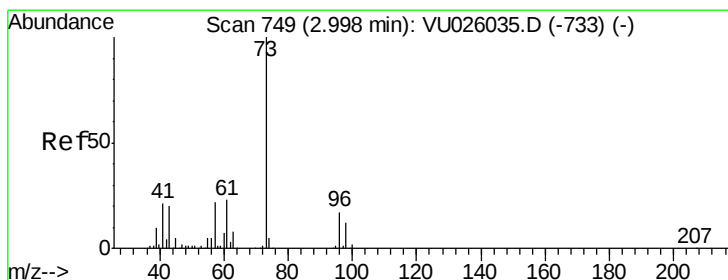
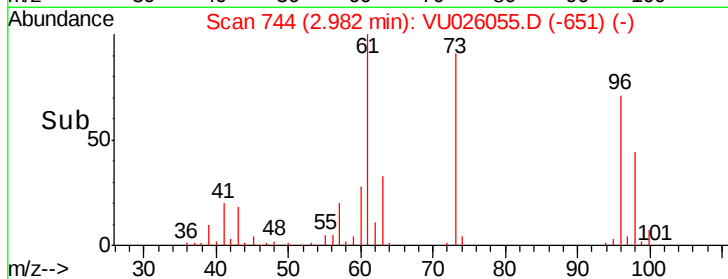
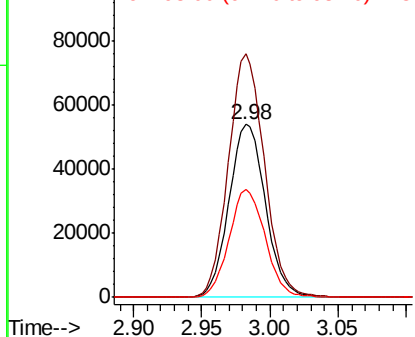


Abundance

Ion 96.00 (95.70 to 96.70): VU0

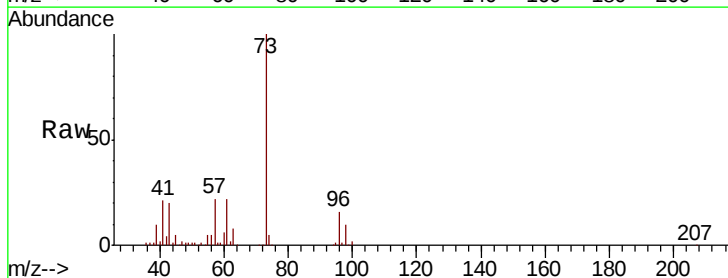
Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18
Methyl tert-butyl Ether
Concen: 49.501 ug/L
RT: 3.00 min Scan# 749
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

Tgt Ion	73	Resp	324264
Ion	Ratio	Lower	Upper
73	100		
43	20.0	16.3	24.5
57	21.6	17.1	25.7

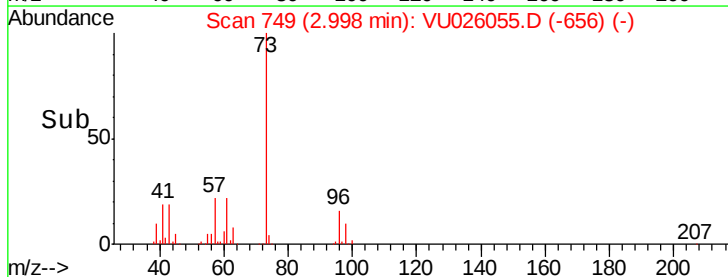
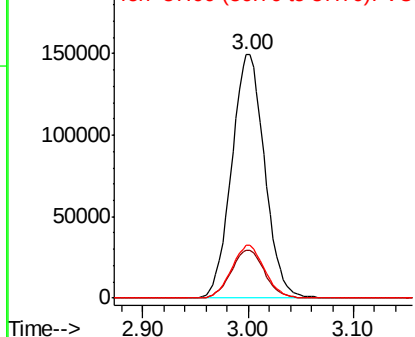


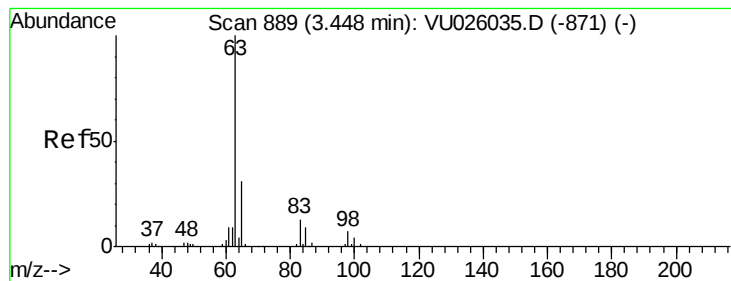
Abundance

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: 50.879 ug/L

RT: 3.45 min Scan# 888

Delta R.T. -0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

ClientSampleId :

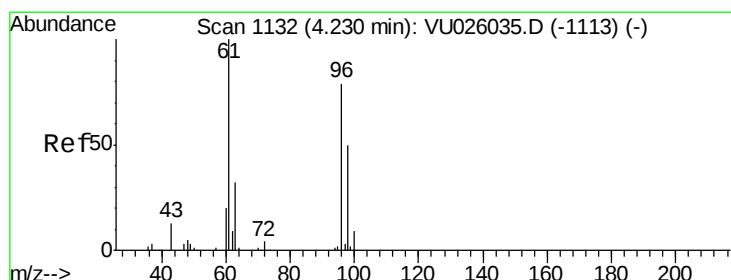
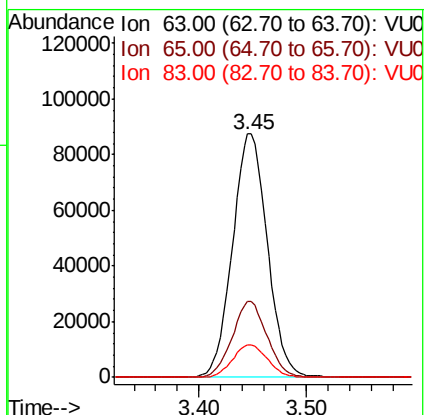
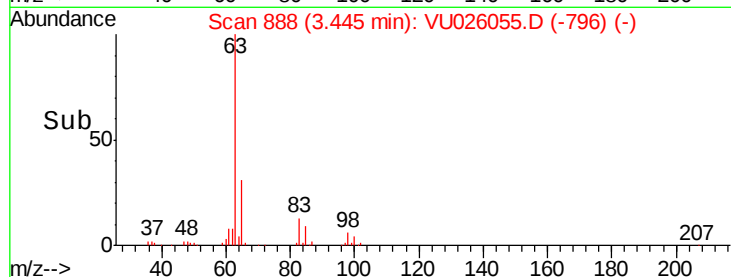
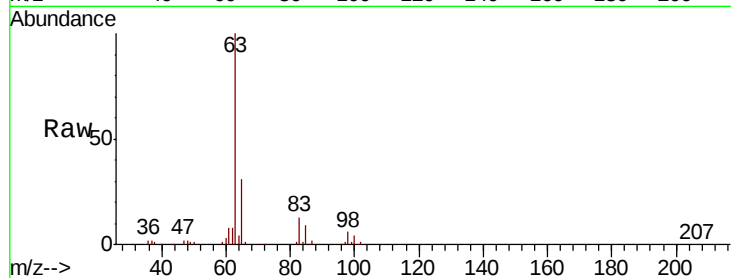
Tot Ion: 63 Resp: 196706

Ion Ratio Lower Upper

63 100

65 31.2 22.4 41.6

83 13.4 10.1 18.9



#20

cis-1,2-Dichloroethene

Concen: 49.332 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

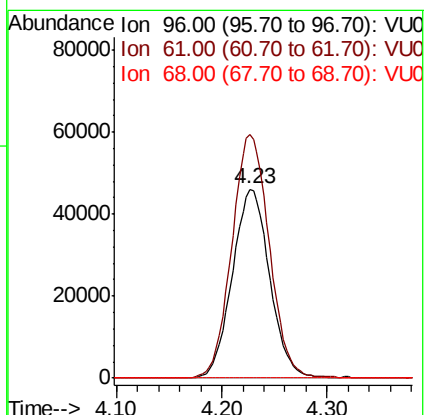
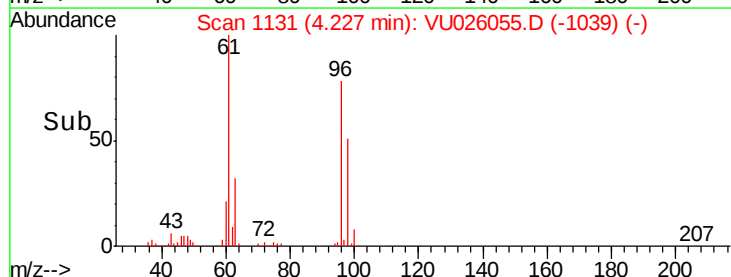
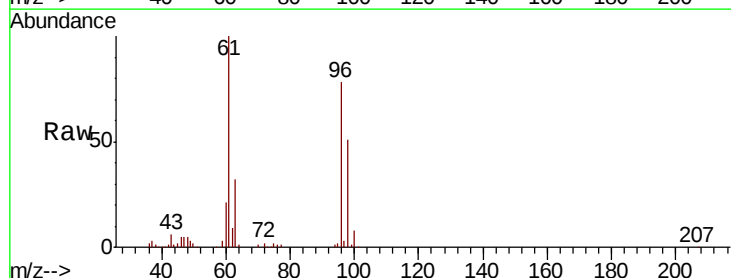
Tgt Ion: 96 Resp: 113146

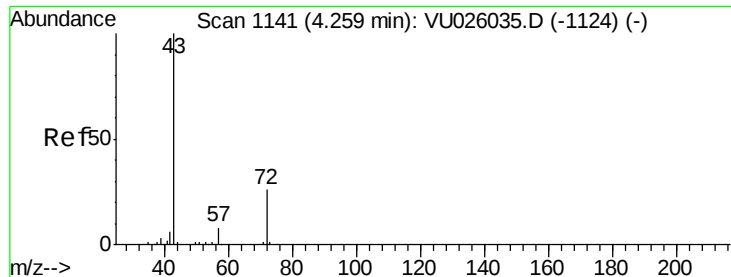
Ion Ratio Lower Upper

96 100

61 128.9 90.7 168.5

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 96.750 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

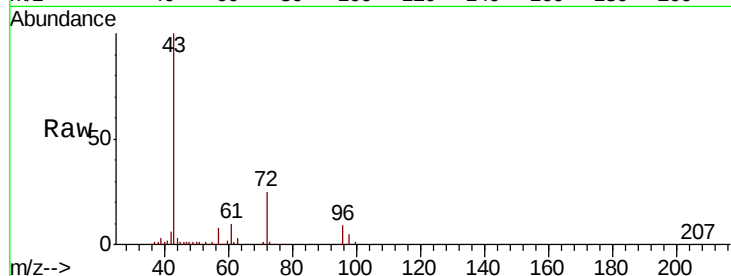
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 164167

Ion Ratio Lower Upper

43 100

72 26.1 13.5 40.5



Abundance Ion 43.00 (42.70 to 43.70): VU026055.D (-1141) (-)

Ion 72.00 (71.70 to 72.70): VU026055.D (-1141) (-)

4.26

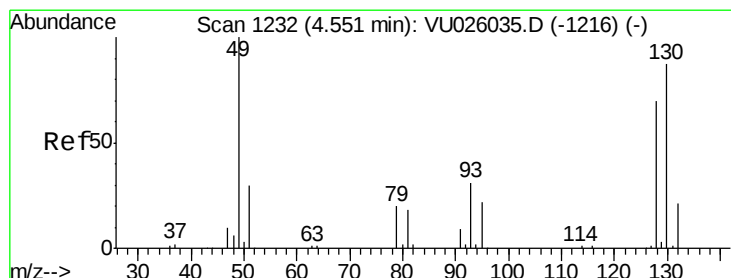
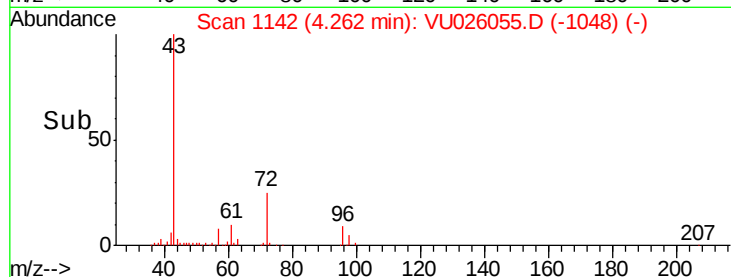
60000

40000

20000

0

Time-->



#23

Bromochloromethane

Concen: 50.261 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Tgt Ion:128 Resp: 61398

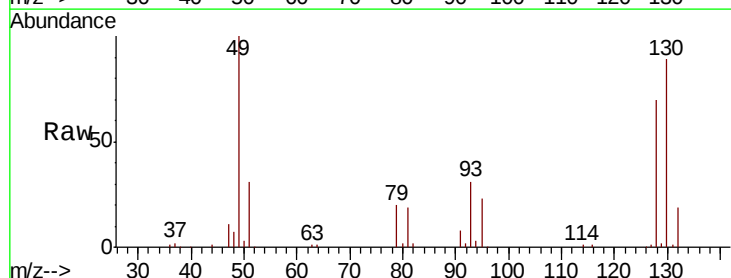
Ion Ratio Lower Upper

128 100

49 143.6 103.0 191.2

130 128.3 89.5 166.1

51 44.2 37.7 56.5



Abundance Ion 128.00 (127.70 to 128.70): VU026055.D (-1232) (-)

Ion 49.00 (48.70 to 49.70): VU026055.D (-1232) (-)

Ion 130.00 (129.70 to 130.70): VU026055.D (-1232) (-)

Ion 51.00 (50.70 to 51.70): VU026055.D (-1232) (-)

4.55

60000

50000

40000

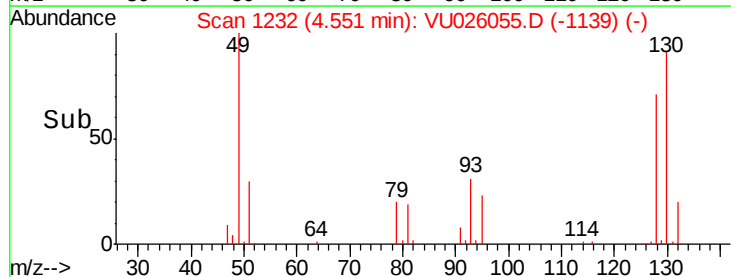
30000

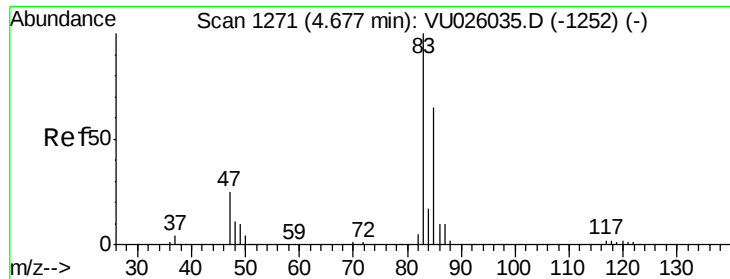
20000

10000

0

Time-->





#25

Chloroform

Concen: 50.341 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

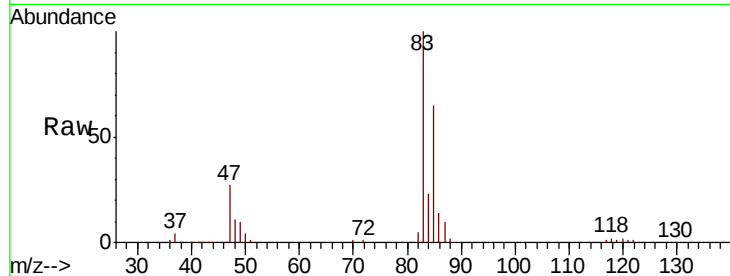
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 202668

Ion Ratio Lower Upper

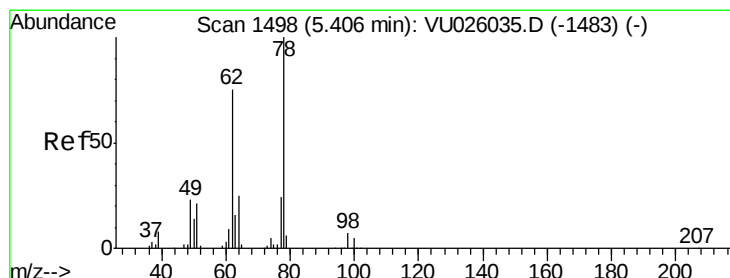
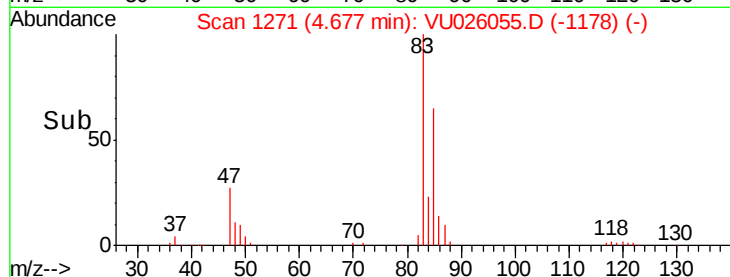
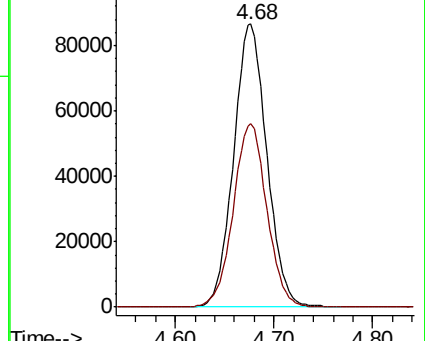
83 100

85 65.0 45.9 85.3



Abundance Ion 83.00 (82.70 to 83.70): VU026055.D (-1178) (-)

Ion 85.00 (84.70 to 85.70): VU026055.D (-1178) (-)



#27

1,2-Dichloroethane

Concen: 48.819 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VU026055.D

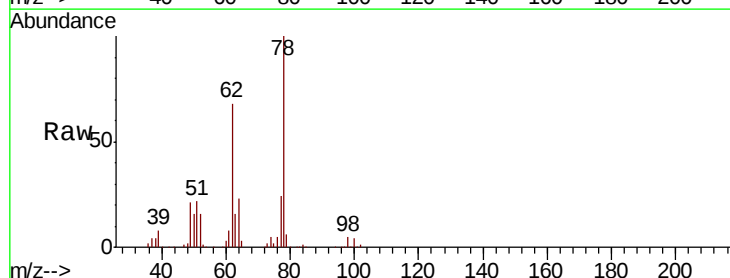
Acq: 10 Aug 2018 20:59

Tgt Ion: 62 Resp: 162330

Ion Ratio Lower Upper

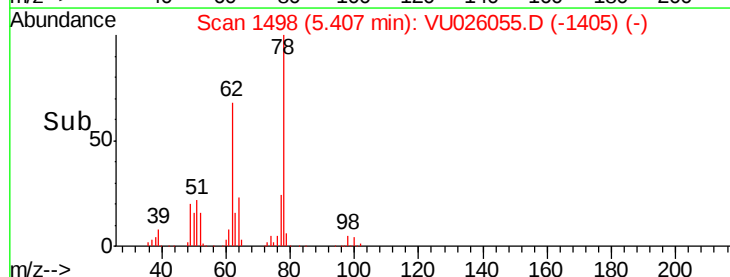
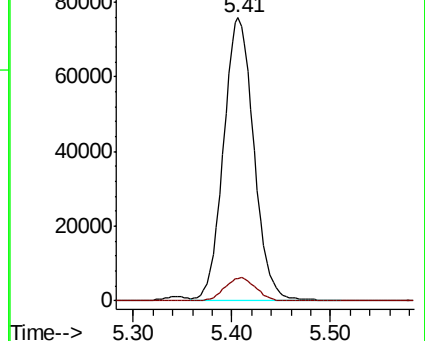
62 100

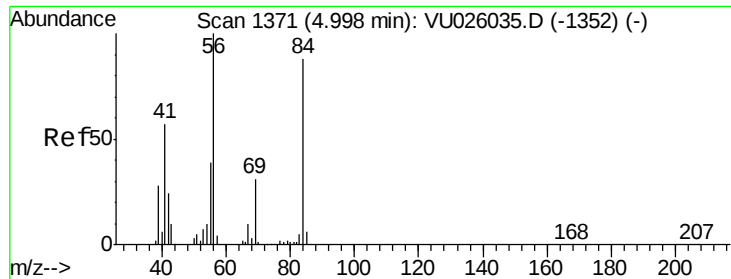
98 8.1 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU026055.D (-1405) (-)

Ion 98.00 (97.70 to 98.70): VU026055.D (-1405) (-)

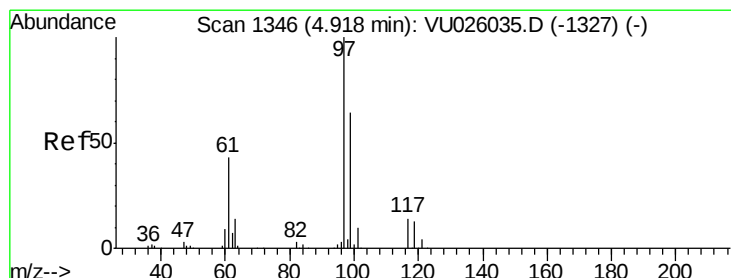
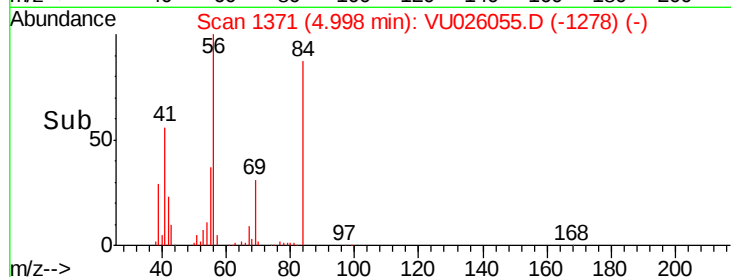
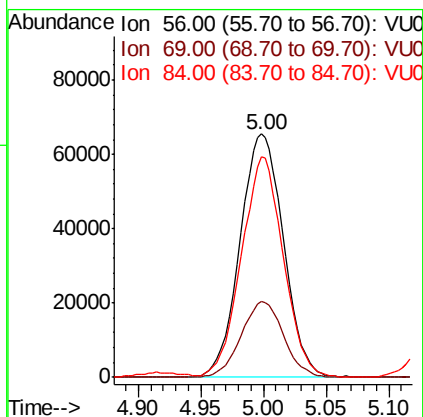
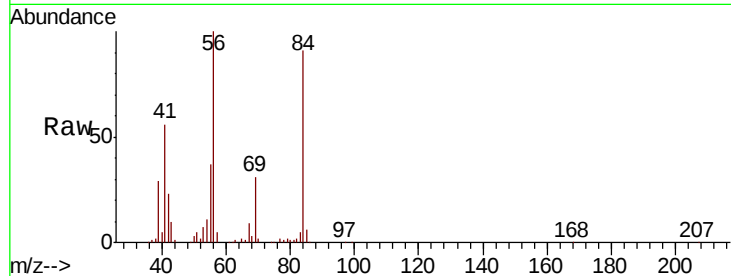




#29
Cyclohexane
Concen: 47.626 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

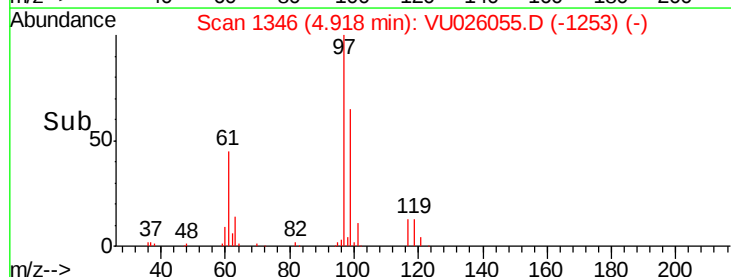
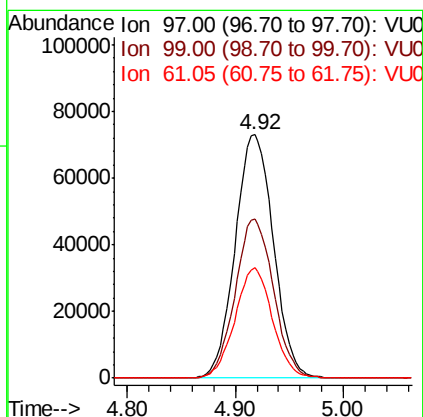
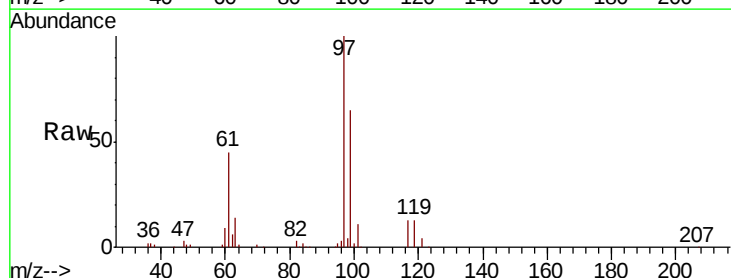
Instrument :
MSVOA_U
ClientSampled :

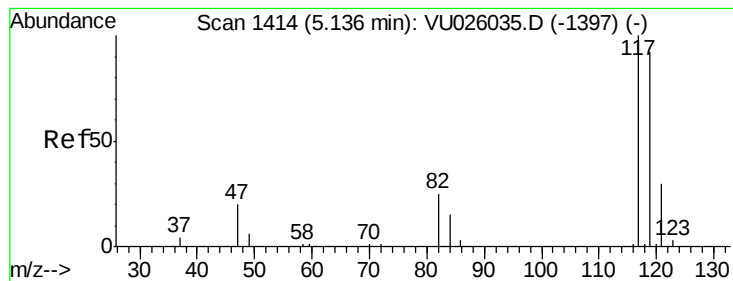
Tot Ion: 56 Resp: 157610
Ion Ratio Lower Upper
56 100
69 30.5 24.6 37.0
84 87.7 68.6 103.0



#30
1,1,1-Trichloroethane
Concen: 48.333 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

Tgt Ion: 97 Resp: 180569
Ion Ratio Lower Upper
97 100
99 65.2 51.8 77.6
61 44.4 34.7 52.1





#31

Carbon tetrachloride

Concen: 48.671 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

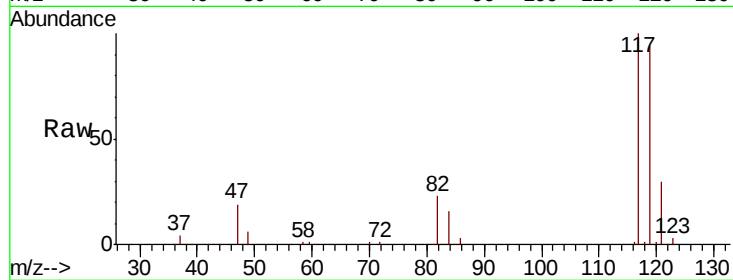
ClientSampleId :

Tot Ion:117 Resp: 166041

Ion Ratio Lower Upper

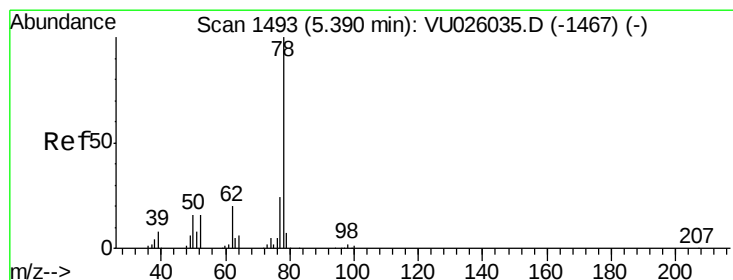
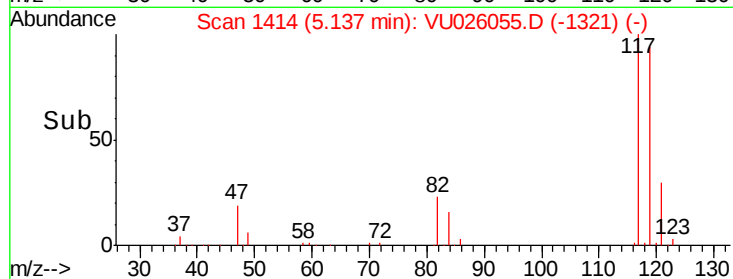
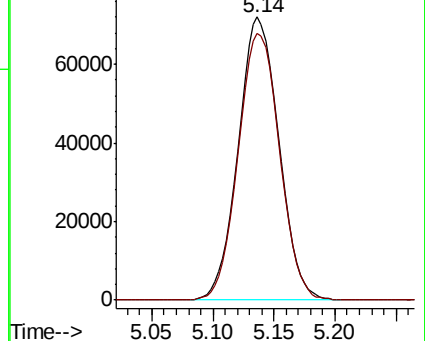
117 100

119 96.0 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.077 ug/L

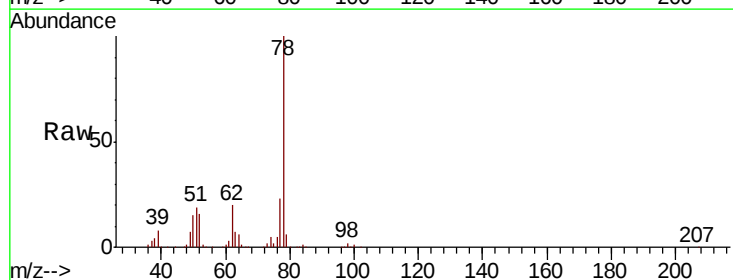
RT: 5.39 min Scan# 1493

Delta R.T. 0.00 min

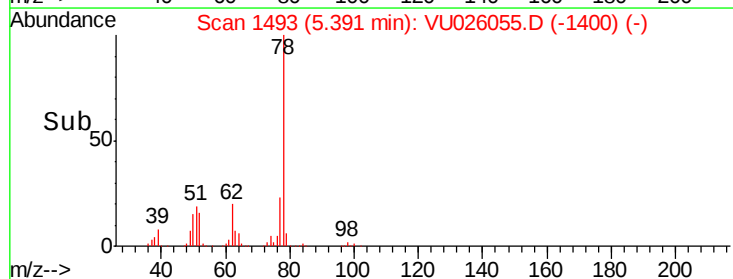
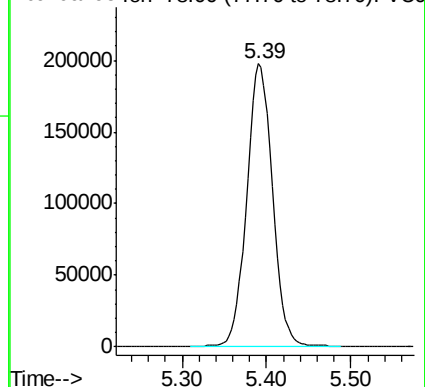
Lab File: VU026055.D

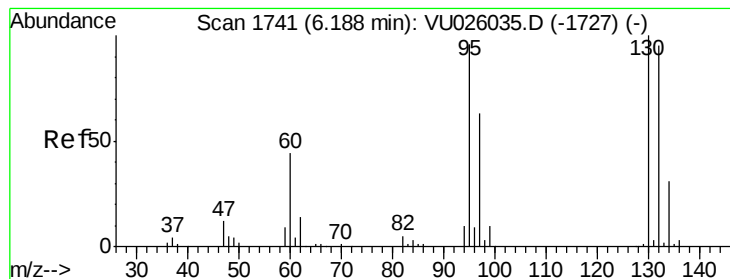
Acq: 10 Aug 2018 20:59

Tgt Ion: 78 Resp: 422325



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 49.125 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 108232

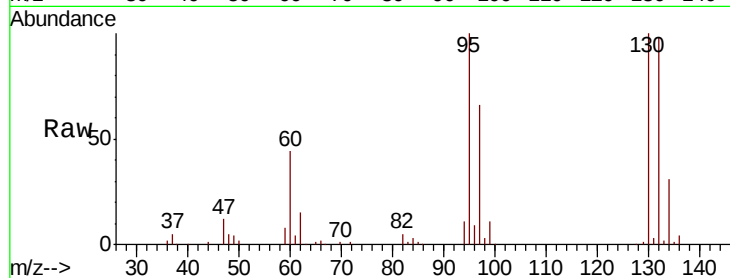
Ion Ratio Lower Upper

95 100

97 66.4 45.2 84.0

132 98.4 68.2 126.6

130 99.9 73.8 137.2

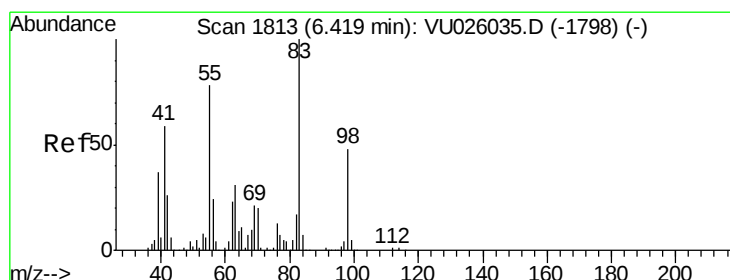
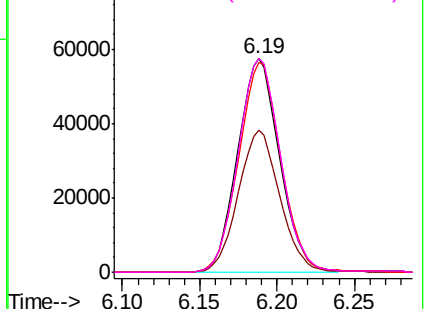
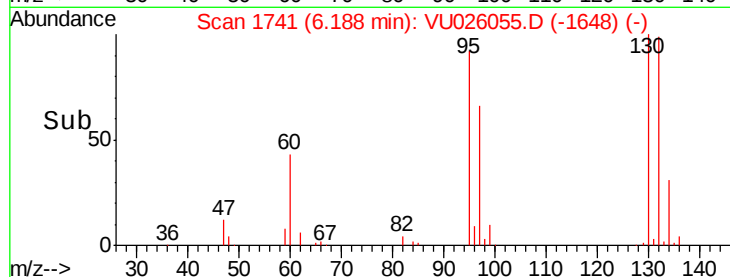


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 48.544 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

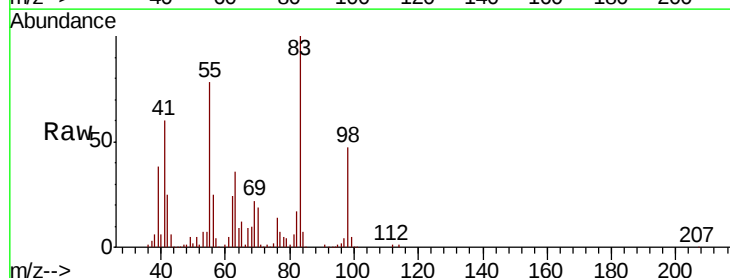
Tgt Ion: 83 Resp: 163305

Ion Ratio Lower Upper

83 100

55 77.5 61.0 91.6

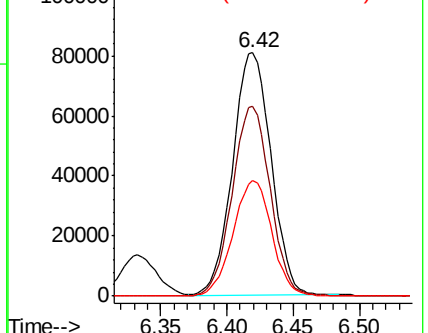
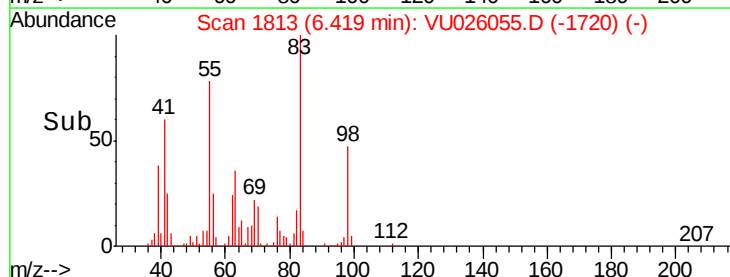
98 48.0 38.1 57.1

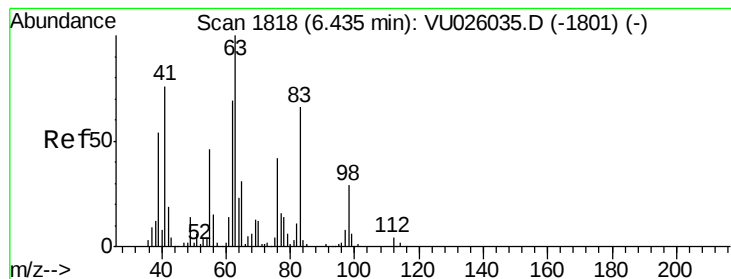


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 51.029 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

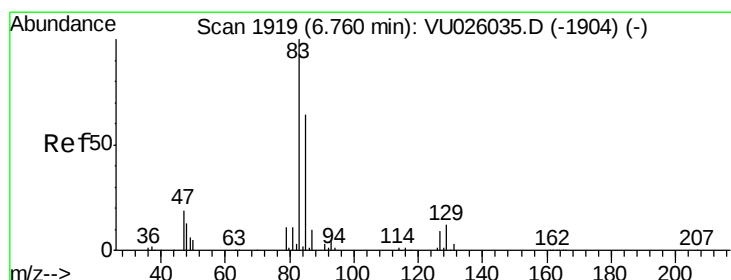
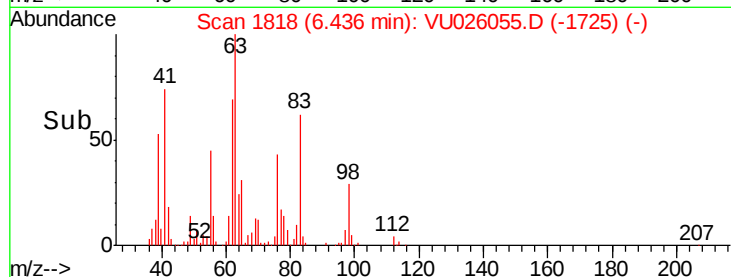
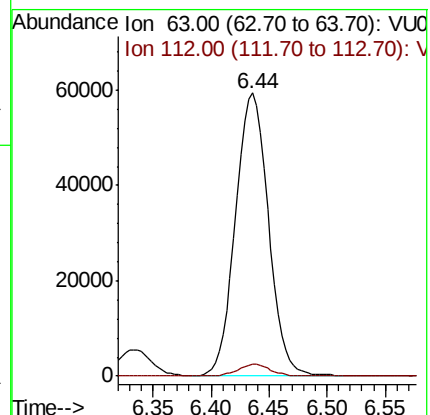
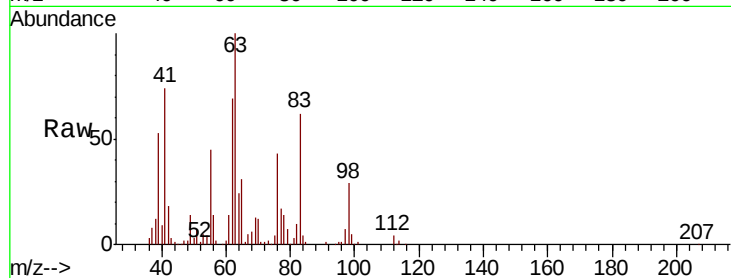
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 117753

Ion Ratio Lower Upper

63 100

112 4.2 3.2 4.8



#38

Bromodichloromethane

Concen: 49.805 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

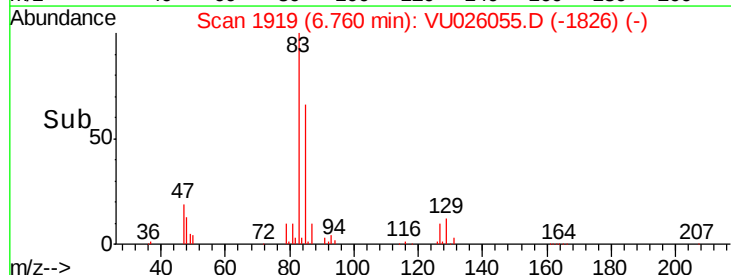
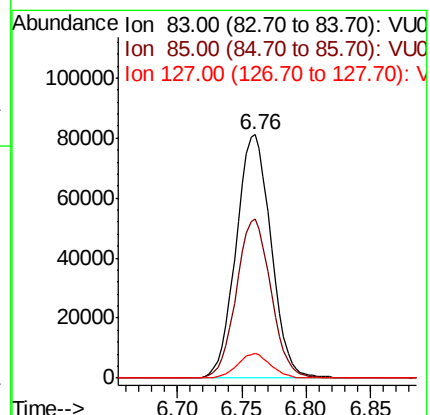
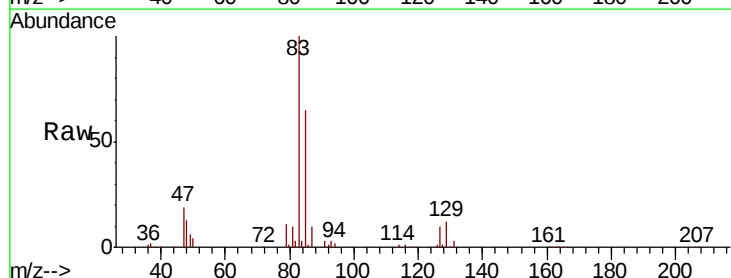
Tgt Ion: 83 Resp: 153115

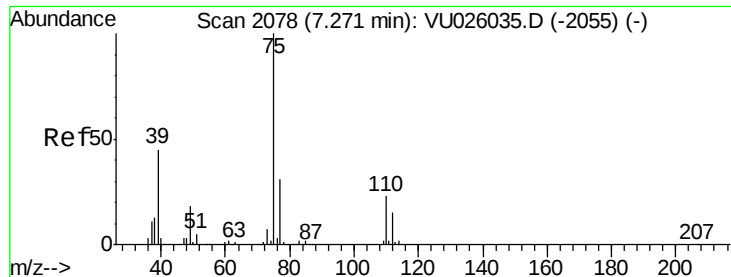
Ion Ratio Lower Upper

83 100

85 65.4 45.3 84.1

127 11.1 7.4 11.2



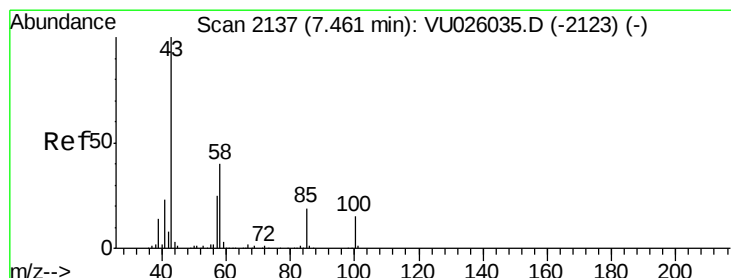
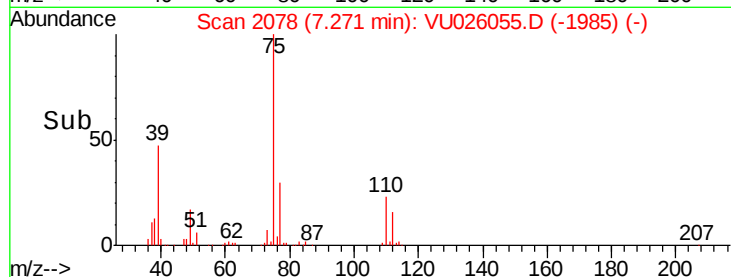
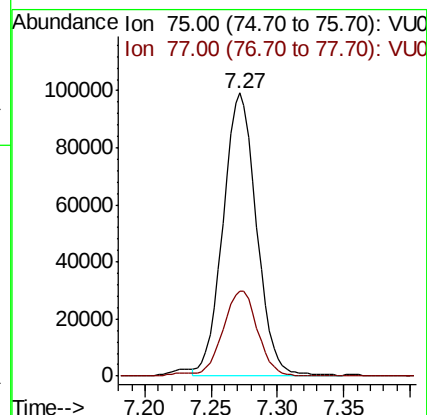
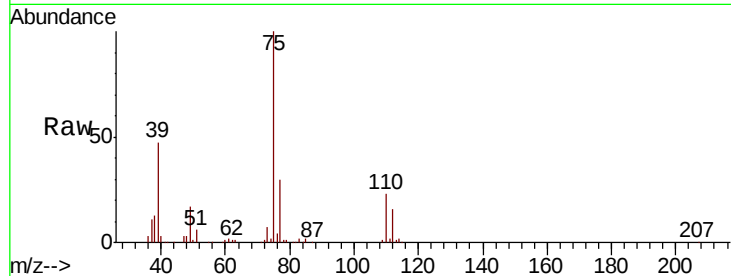


#39

cis-1,3-Dichloropropene
 Concen: 49.615 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Instrument :
 MSVOA_U
 ClientSampled :

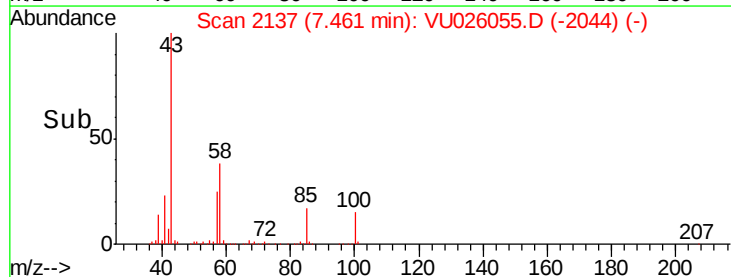
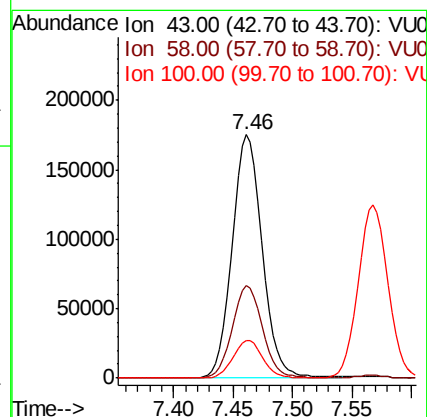
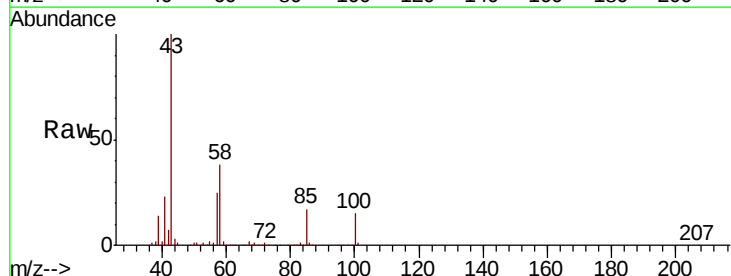
Tot Ion: 75 Resp: 173518
 Ion Ratio Lower Upper
 75 100
 77 30.2 22.1 41.1

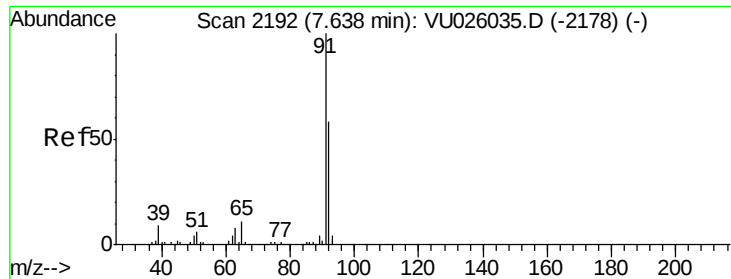


#40

4-Methyl-2-pentanone
 Concen: 96.966 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Tgt Ion: 43 Resp: 307440
 Ion Ratio Lower Upper
 43 100
 58 38.3 30.6 46.0
 100 15.3 11.8 17.6





#42

Toluene

Concen: 50.631 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

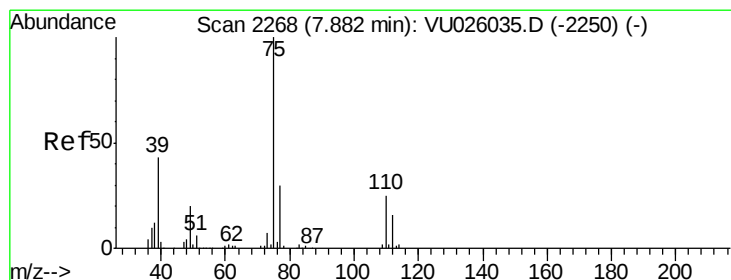
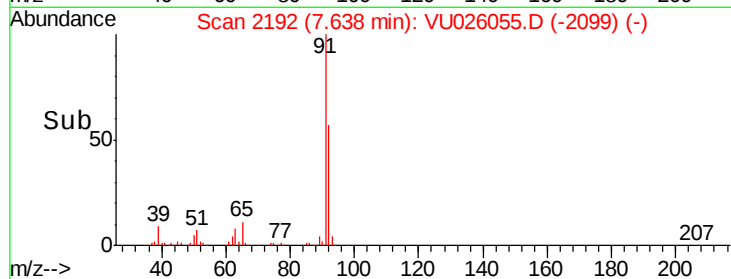
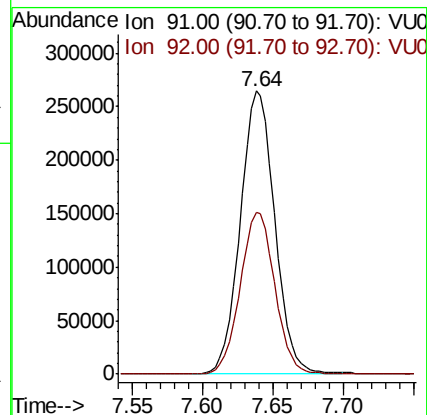
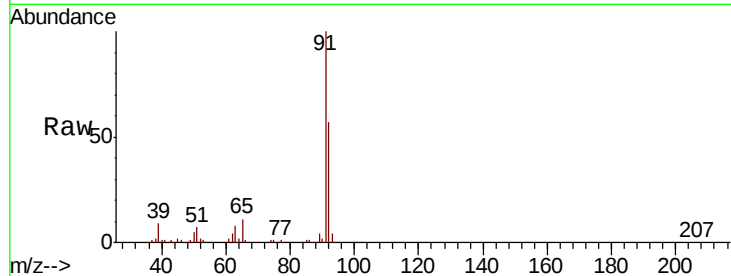
ClientSampleId :

Tot Ion: 91 Resp: 453225

Ion Ratio Lower Upper

91 100

92 57.1 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 49.908 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026055.D

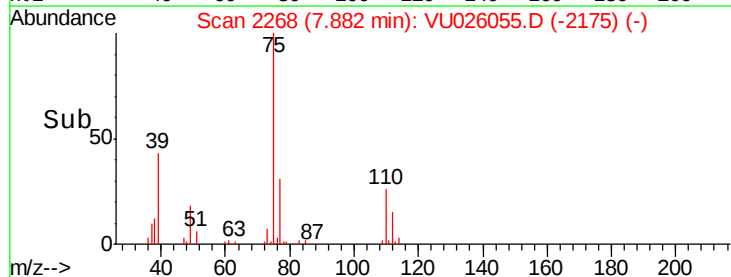
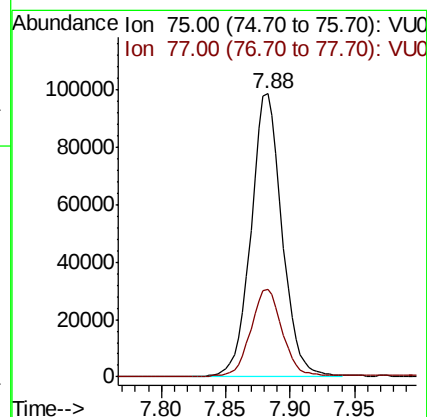
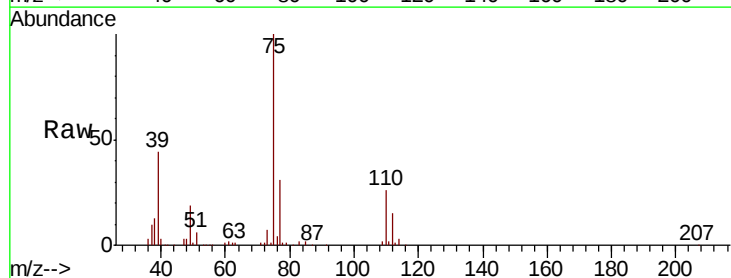
Acq: 10 Aug 2018 20:59

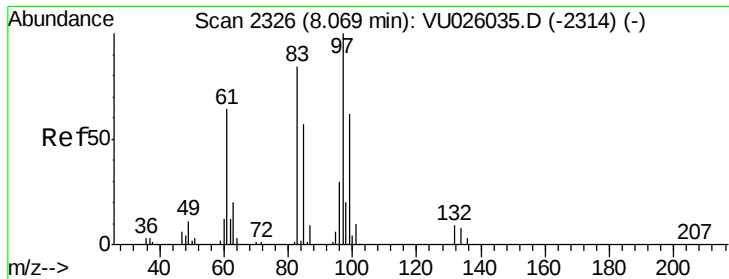
Tgt Ion: 75 Resp: 166136

Ion Ratio Lower Upper

75 100

77 31.1 23.0 42.6

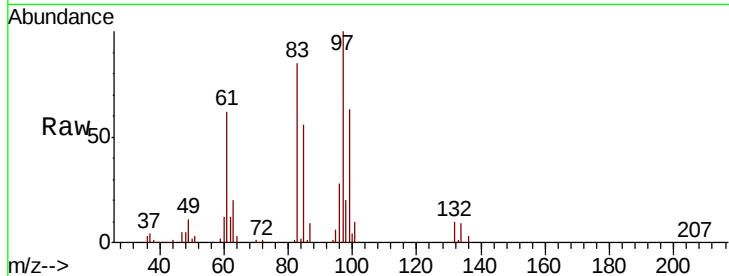




#45
 1,1,2-Trichloroethane
 Concen: 49.462 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	108817
Ion	Ratio	Lower	Upper
97	100		
99	62.6	41.6	77.2
83	85.5	59.0	109.6
85	56.2	37.9	70.5



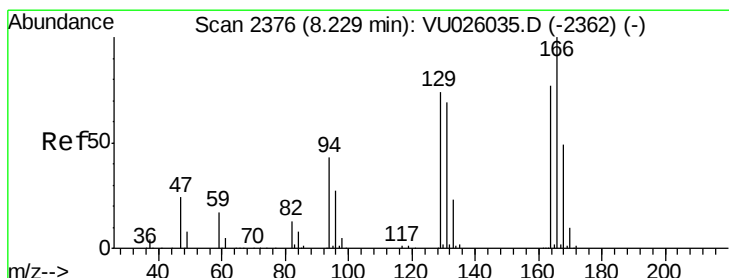
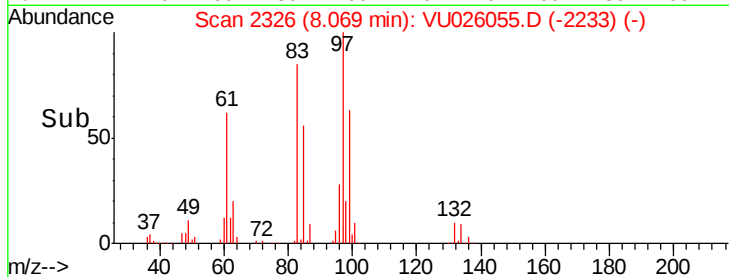
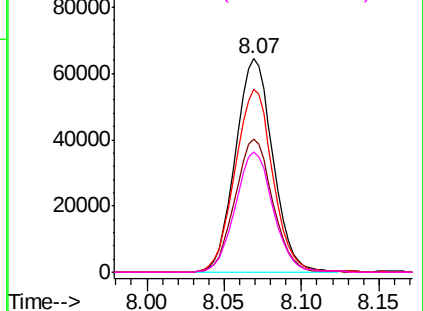
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

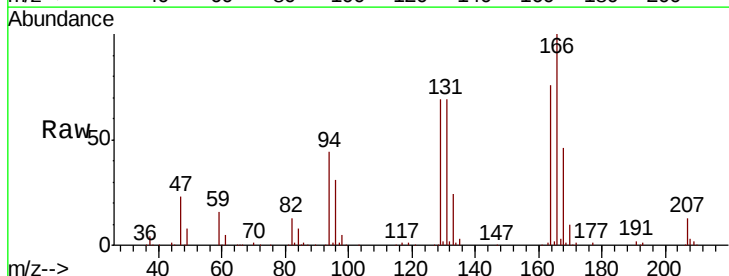
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.548 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Tgt Ion:	164	Resp:	92901
Ion	Ratio	Lower	Upper
164	100		
129	91.0	64.8	120.3
131	91.7	62.8	116.6
166	131.9	89.0	165.4



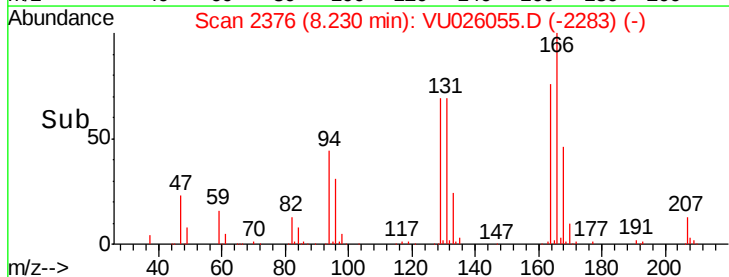
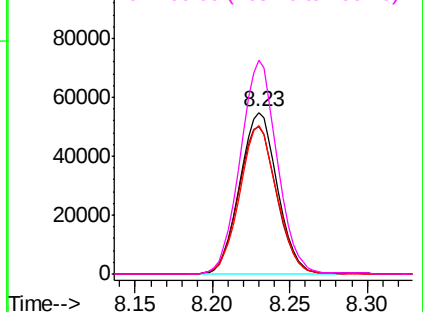
Abundance

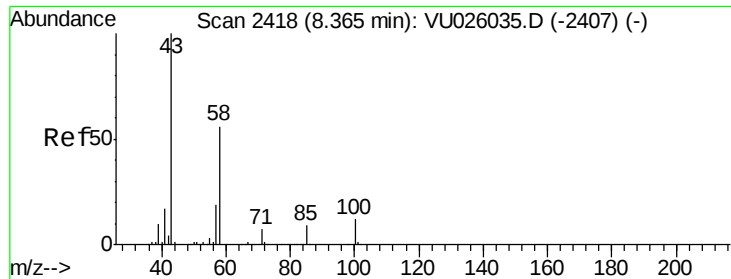
Ion 164.00 (163.70 to 164.70): V

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

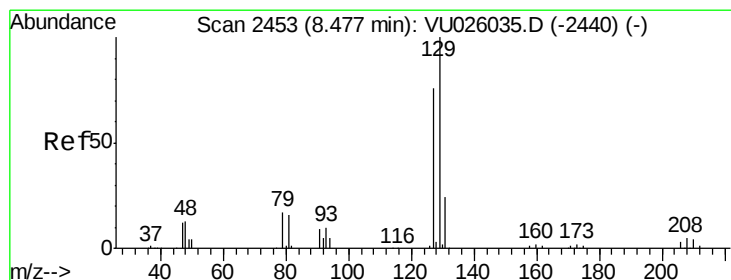
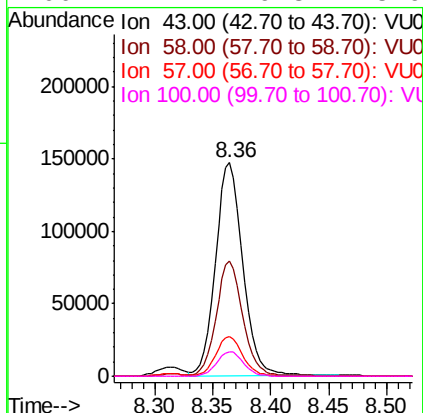
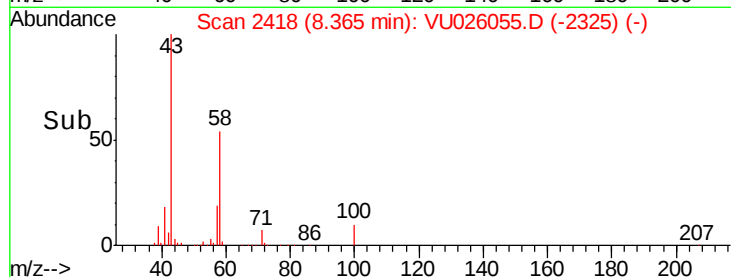
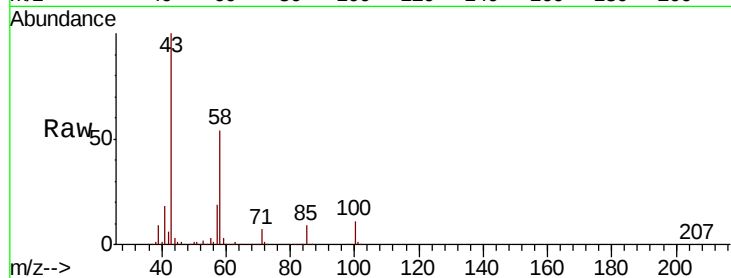




#48
2-Hexanone
Concen: 97.849 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

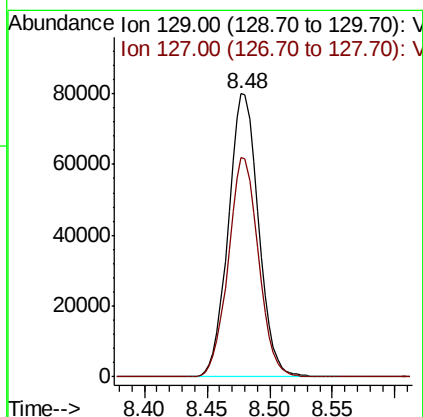
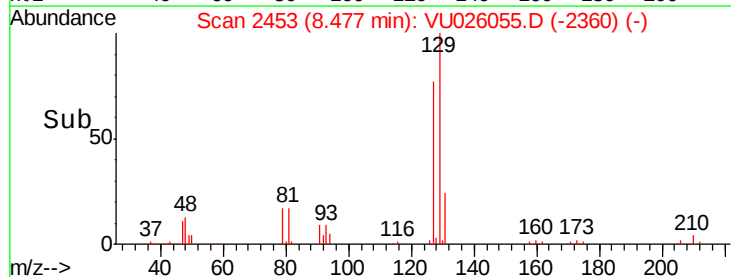
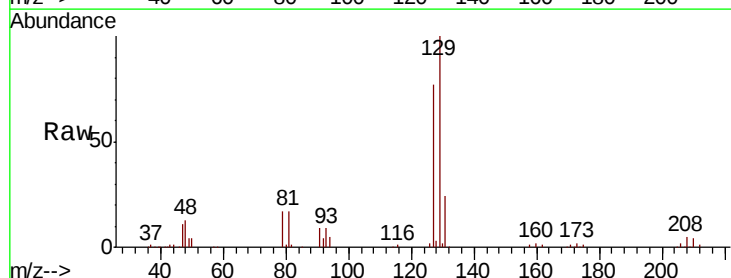
Instrument :
MSVOA_U
ClientSampleId :

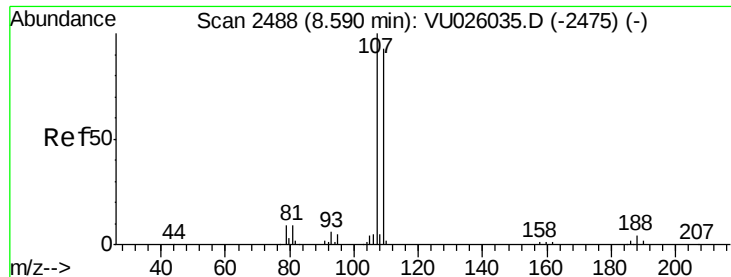
Tot Ion: 43 Resp: 241699
Ion Ratio Lower Upper
43 100
58 52.4 43.6 65.4
57 18.4 15.1 22.7
100 11.4 9.3 13.9



#49
Dibromochloromethane
Concen: 50.500 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

Tgt Ion: 129 Resp: 133972
Ion Ratio Lower Upper
129 100
127 77.4 53.5 99.3

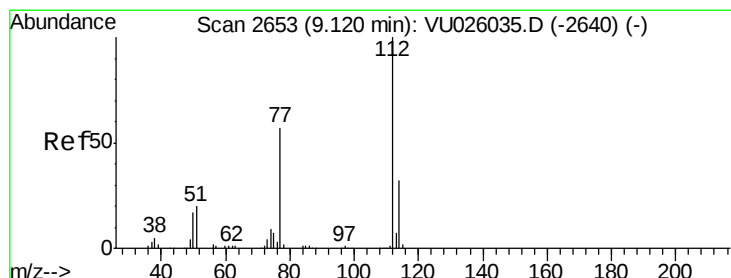
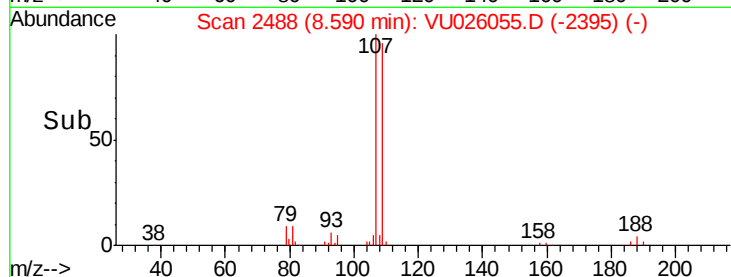
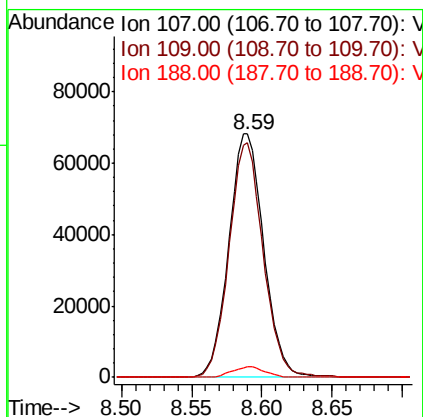
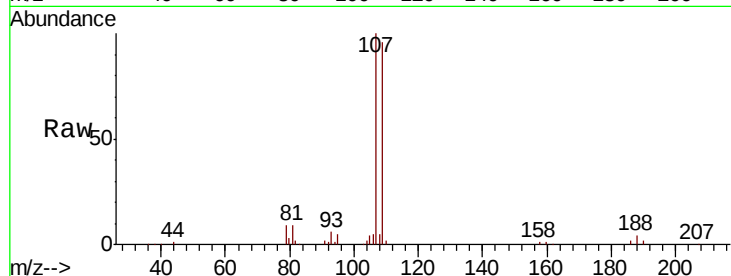




#50
1,2-Dibromoethane
Concen: 49.332 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

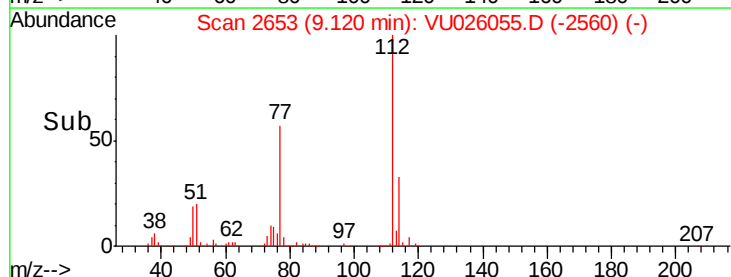
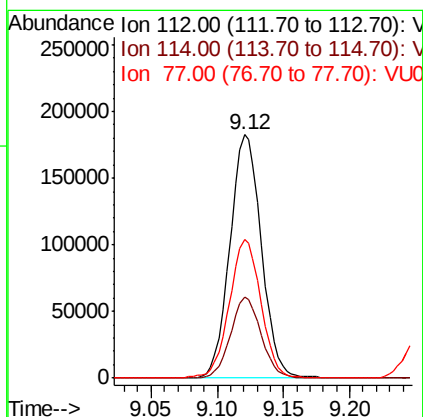
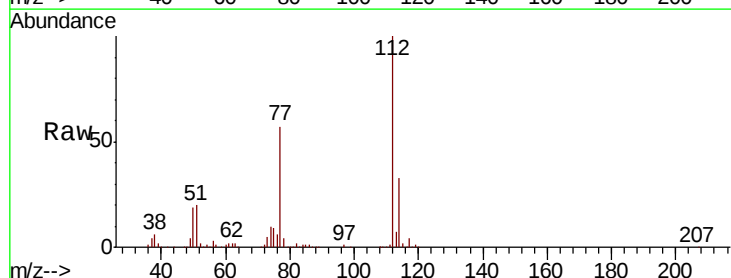
Instrument :
MSVOA_U
ClientSampleId :

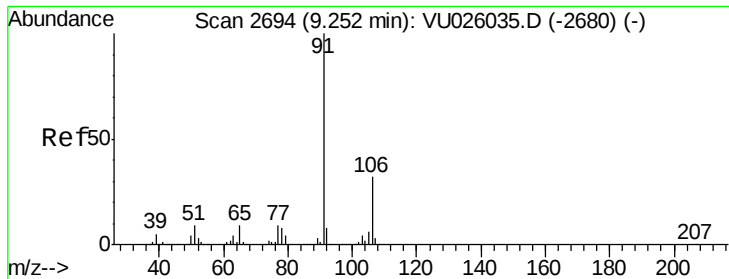
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.2	66.1	122.7
188	4.3	2.9	4.3



#51
Chlorobenzene
Concen: 49.921 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. 0.00 min
Lab File: VU026055.D
Acq: 10 Aug 2018 20:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.2	22.7	42.3
77	56.9	45.2	67.8





#52

Ethylbenzene

Concen: 50.874 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

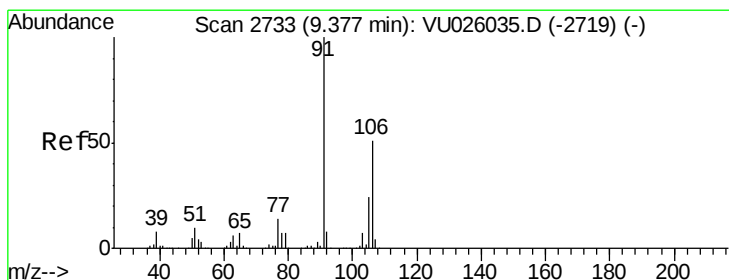
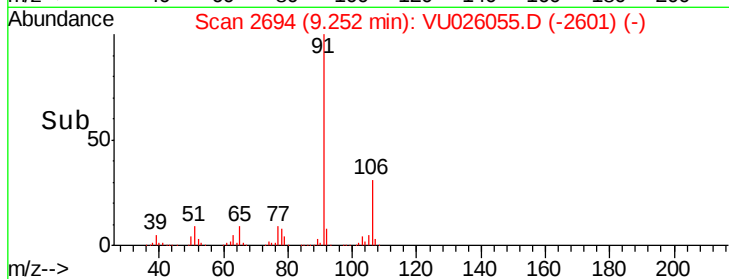
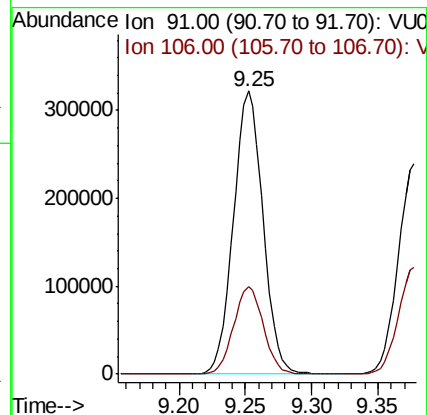
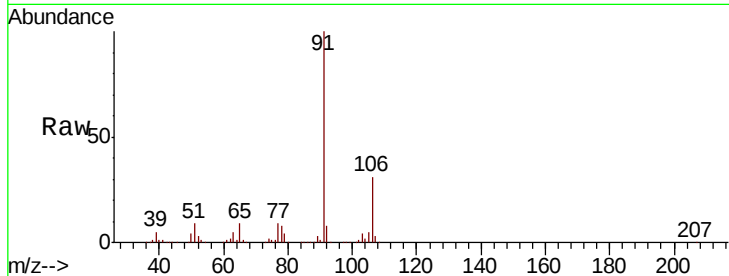
ClientSampleId :

Tot Ion: 91 Resp: 498316

Ion Ratio Lower Upper

91 100

106 30.8 22.0 41.0



#53

m,p-Xylene

Concen: 51.772 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026055.D

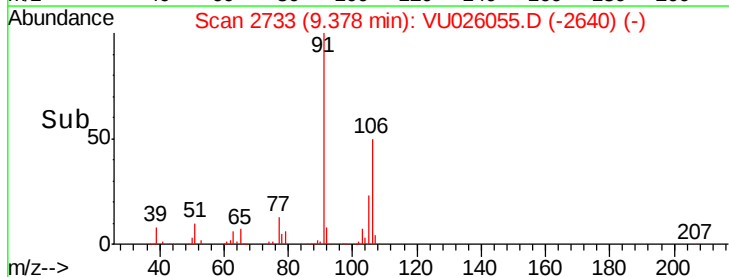
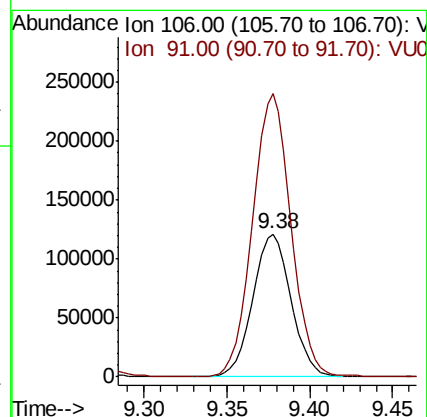
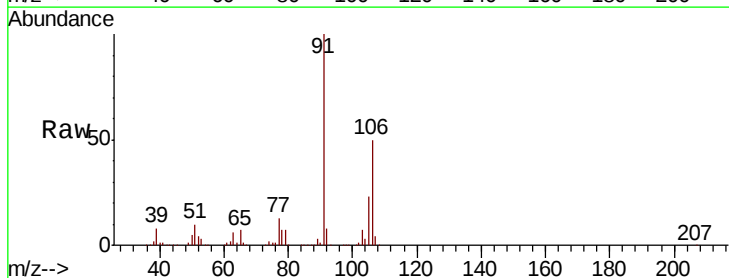
Acq: 10 Aug 2018 20:59

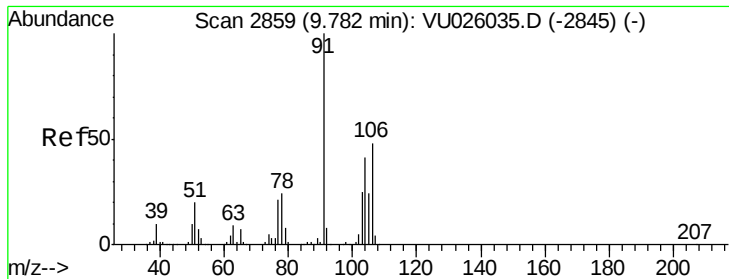
Tgt Ion: 106 Resp: 193776

Ion Ratio Lower Upper

106 100

91 198.4 141.3 262.5





#54

o-xylene

Concen: 51.236 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

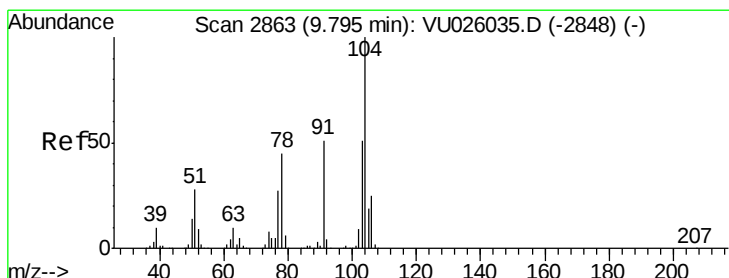
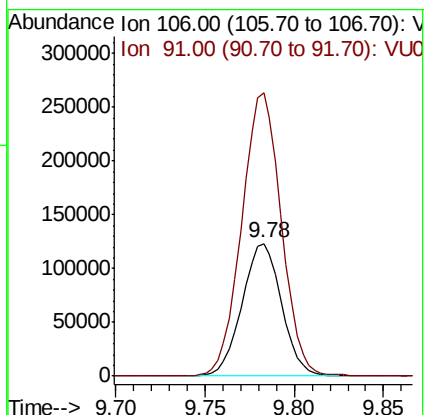
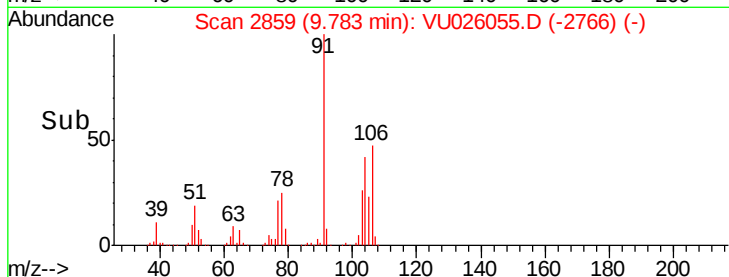
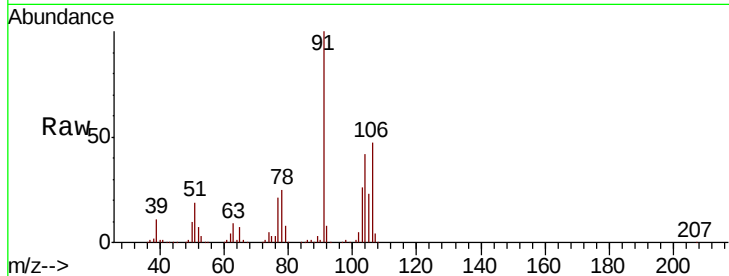
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 190325

Ion Ratio Lower Upper

106 100

91 212.8 151.2 280.8



#55

Styrene

Concen: 53.126 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU026055.D

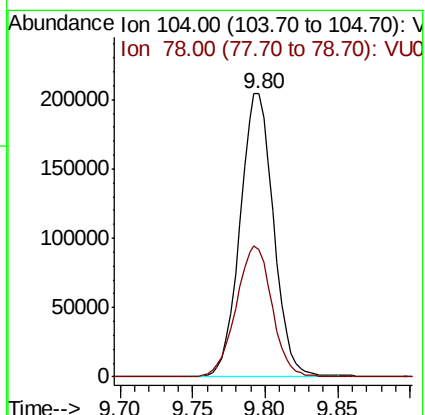
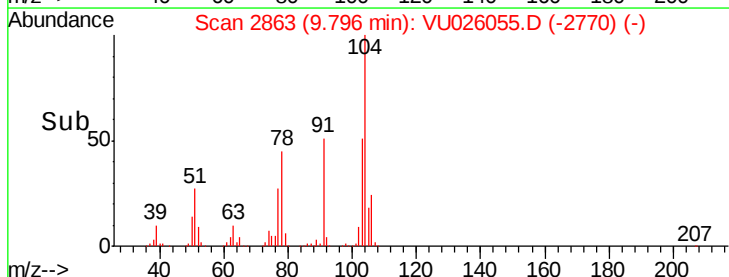
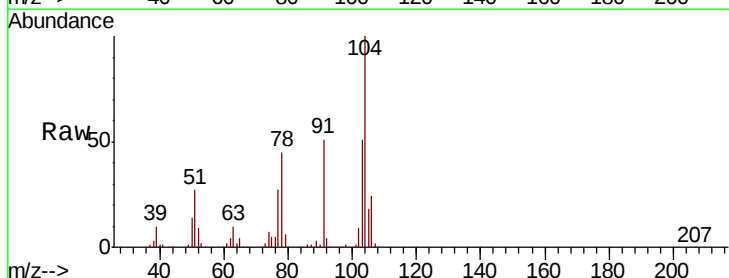
Acq: 10 Aug 2018 20:59

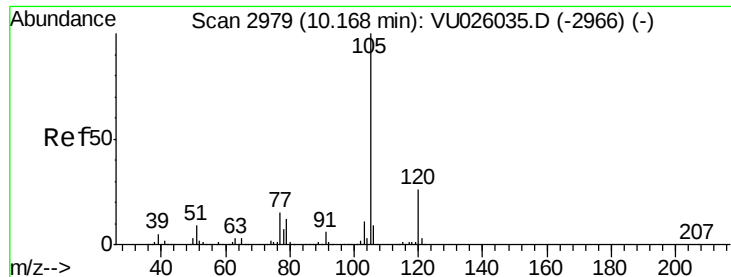
Tgt Ion:104 Resp: 328562

Ion Ratio Lower Upper

104 100

78 45.0 32.1 59.5





#56

Isopropylbenzene

Concen: 52.419 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

ClientSampleId :

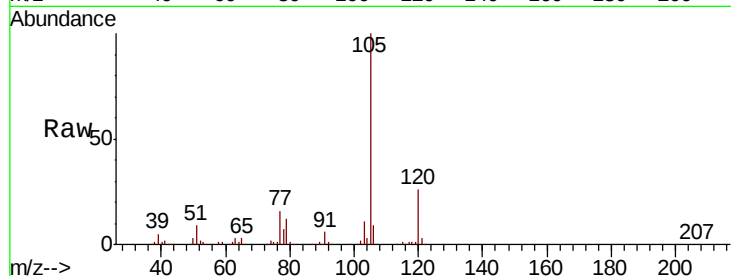
Tot Ion:105 Resp: 501638

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

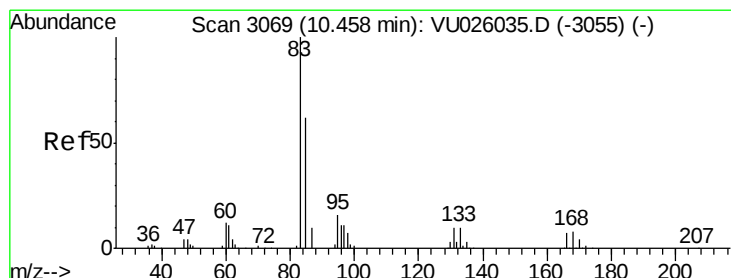
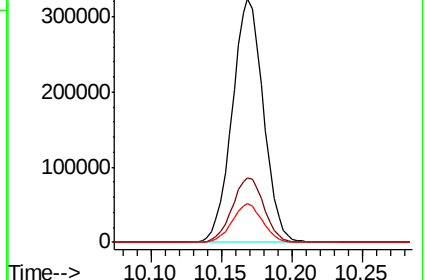
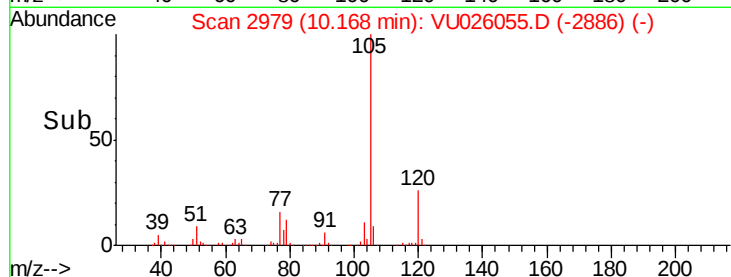
77 15.5 12.6 18.8



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: 49.058 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

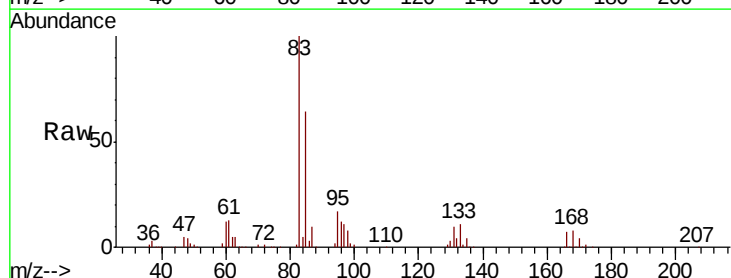
Tgt Ion: 83 Resp: 183430

Ion Ratio Lower Upper

83 100

85 64.4 45.0 83.6

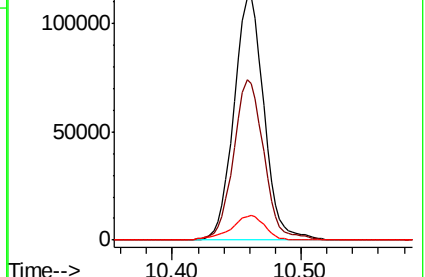
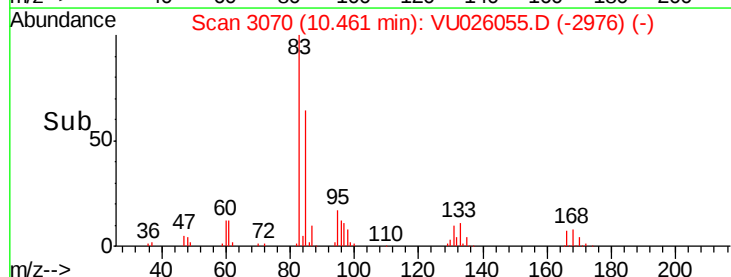
131 10.1 8.6 12.8

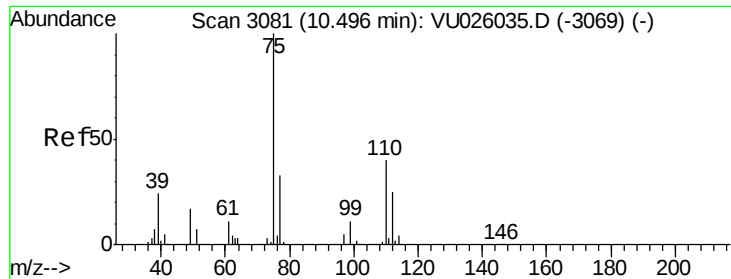


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

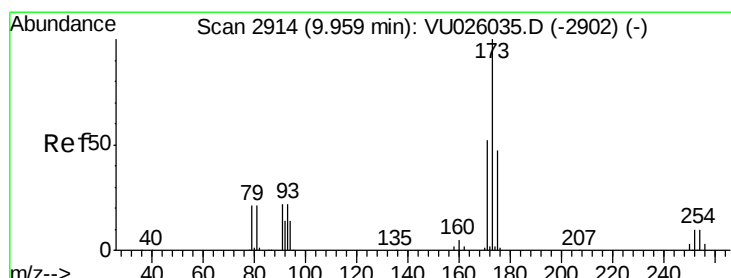
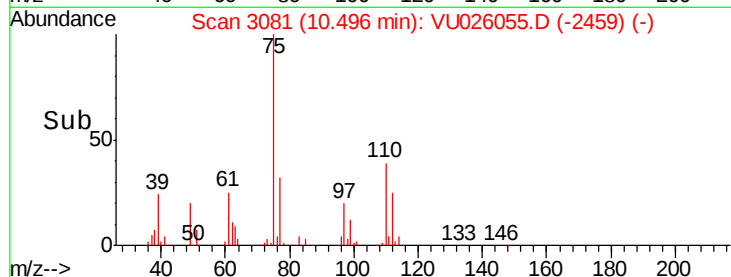
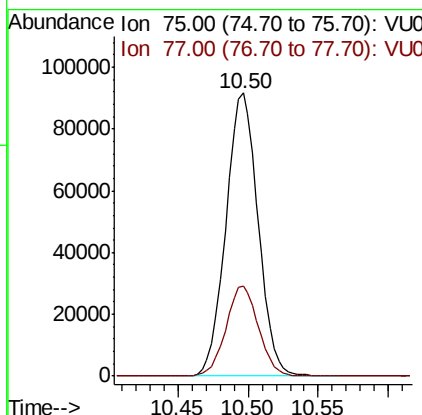
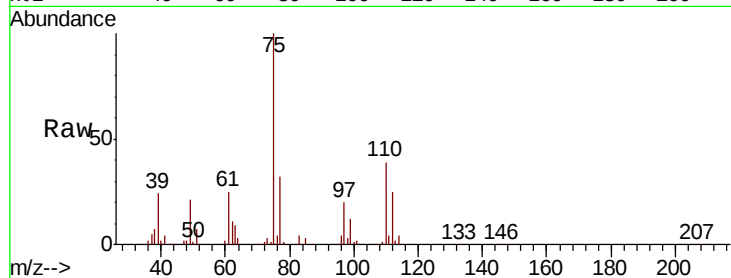




#59
 1,2,3-Trichloropropane
 Concen: 49.159 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

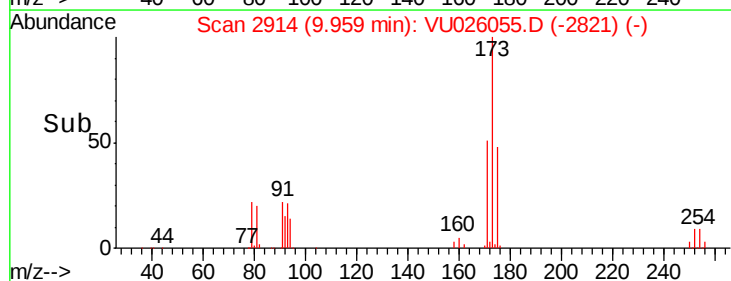
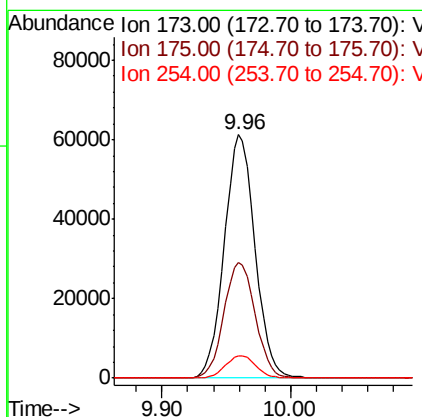
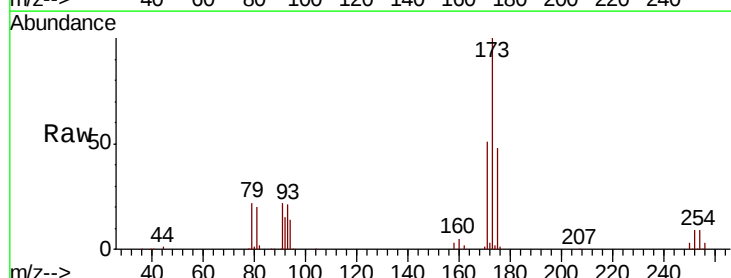
Instrument :
 MSVOA_U
 ClientSampleId :

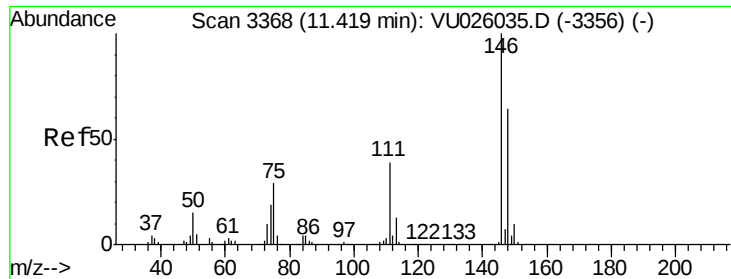
Tot Ion: 75 Resp: 146303
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.3 37.9



#61
 Bromoform
 Concen: 49.299 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Tgt Ion: 173 Resp: 100964
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.9 58.3
 254 9.2 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 49.155 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

ClientSampleId :

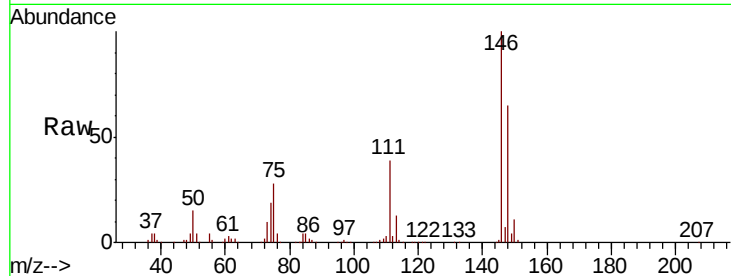
Tot Ion:146 Resp: 231473

Ion Ratio Lower Upper

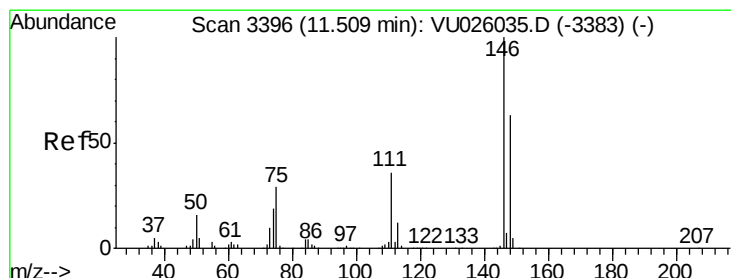
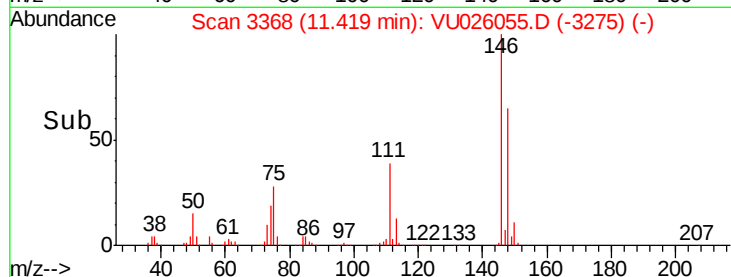
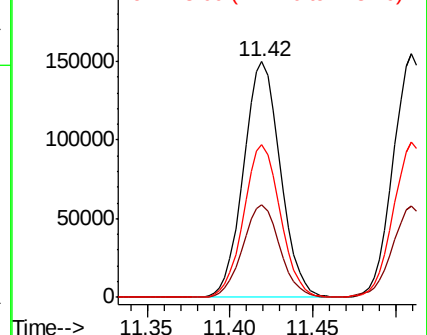
146 100

111 39.0 27.9 51.9

148 64.6 46.0 85.4



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.543 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

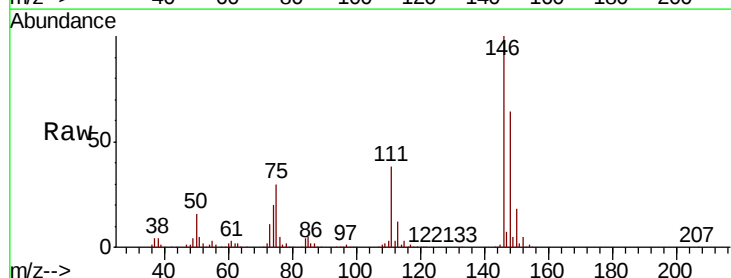
Tgt Ion:146 Resp: 239628

Ion Ratio Lower Upper

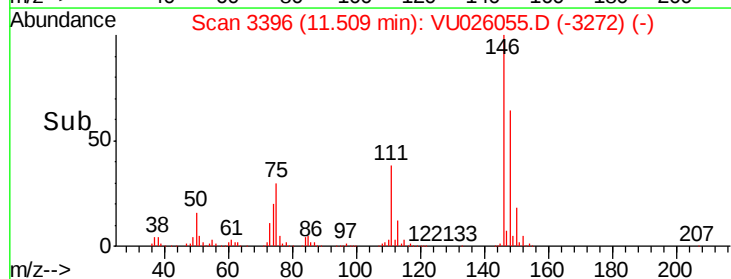
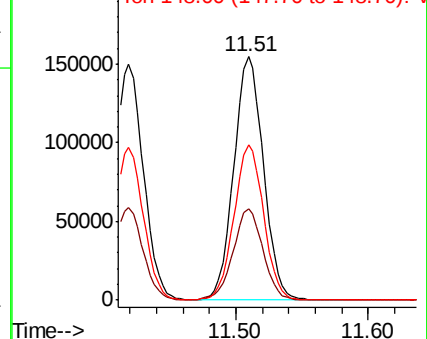
146 100

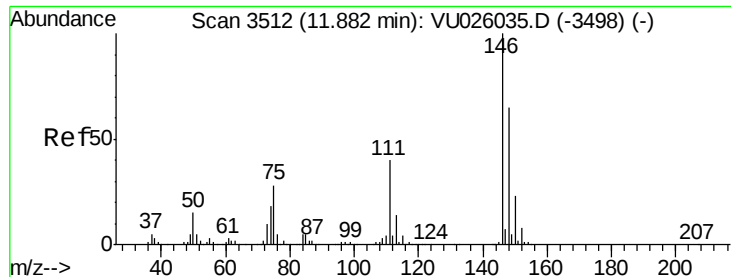
111 37.5 26.4 49.0

148 63.7 43.8 81.4



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

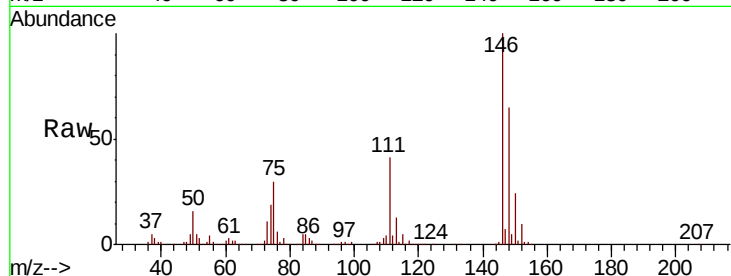




#65
 1,2-Dichlorobenzene
 Concen: 49.147 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	32.4	48.6
148	64.6	50.1	75.1

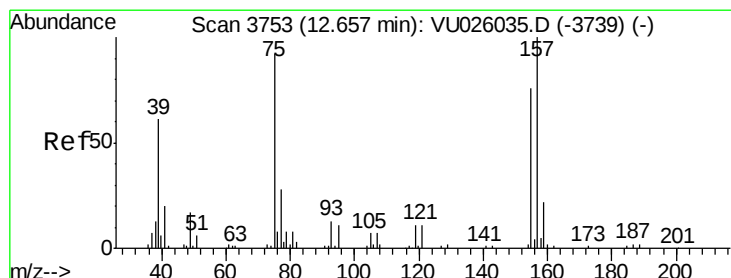
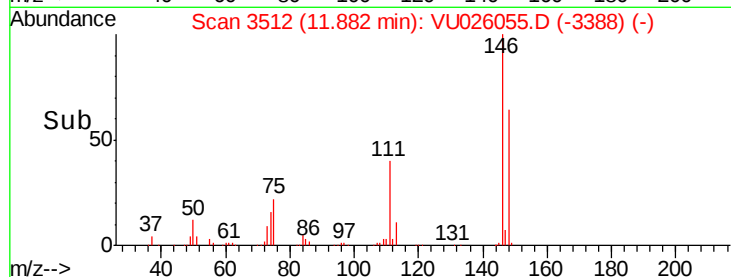
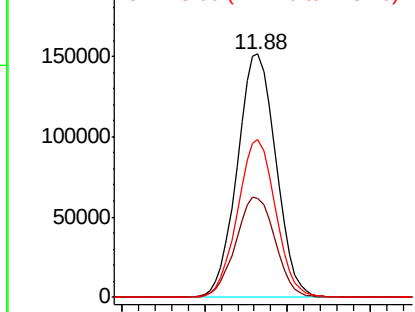


Abundance

Ion 146.00 (145.70 to 146.70): V

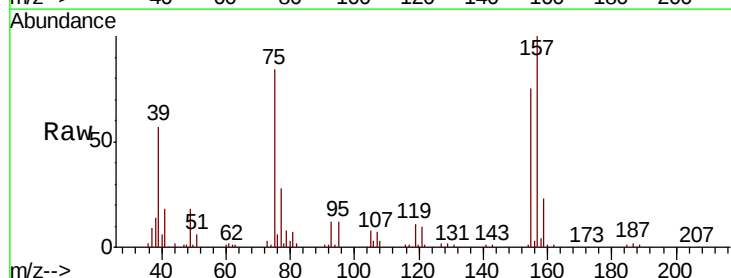
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.035 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.4	71.8	107.8
157	118.5	93.0	139.6

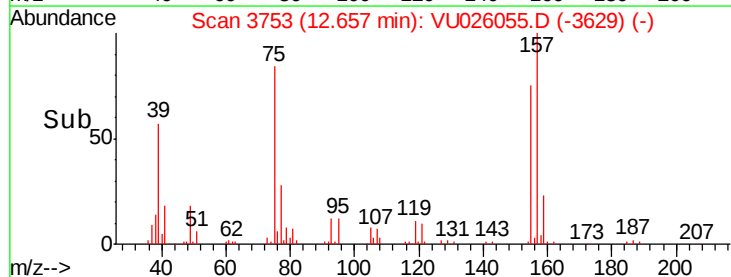
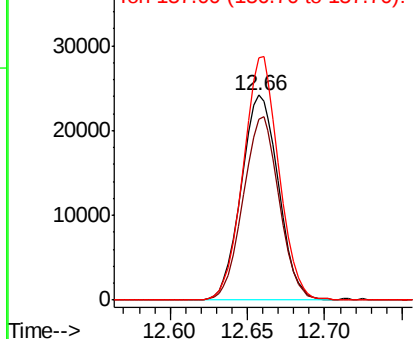


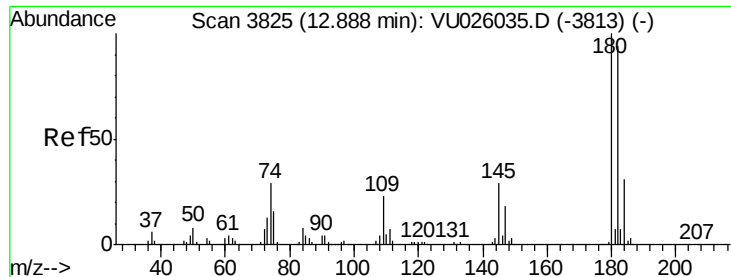
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

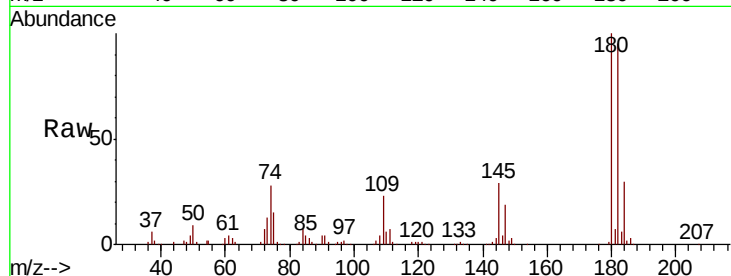




#67
 1,3,5-Trichlorobenzene
 Concen: 49.125 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.5	114.7
184	30.5	24.3	36.5
145	28.8	23.5	35.3



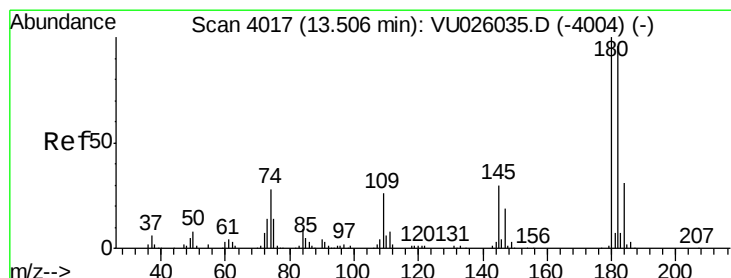
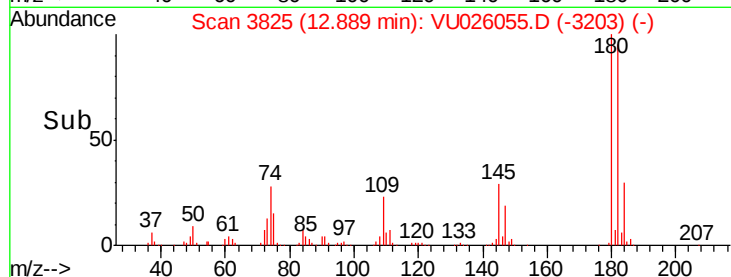
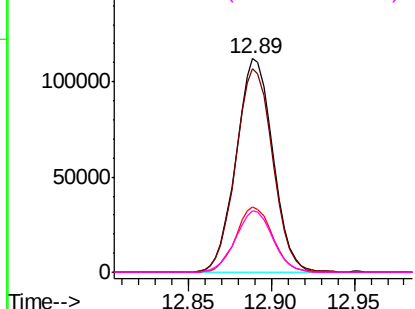
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

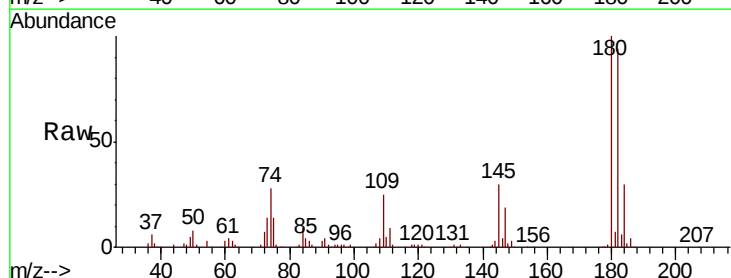
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.290 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU026055.D
 Acq: 10 Aug 2018 20:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.5	114.7
145	29.3	24.2	36.4

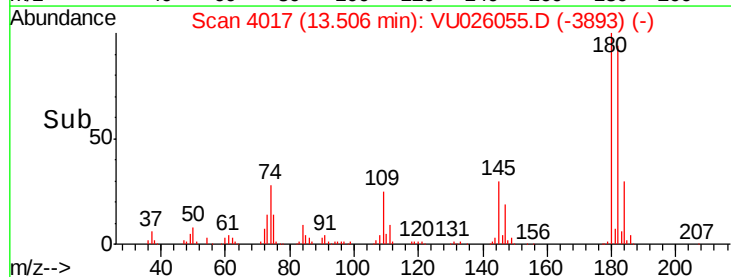
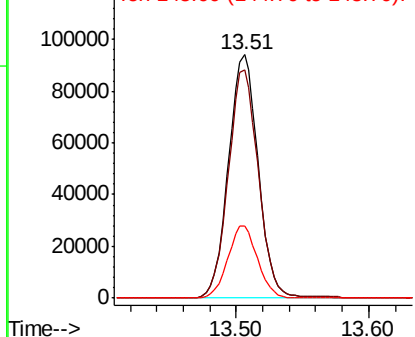


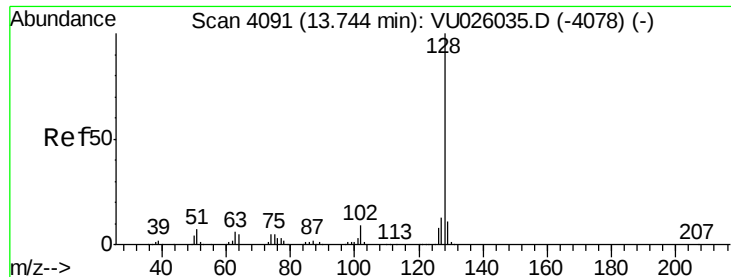
Abundance

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: 46.786 ug/L

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

Instrument :

MSVOA_U

ClientSampleId :

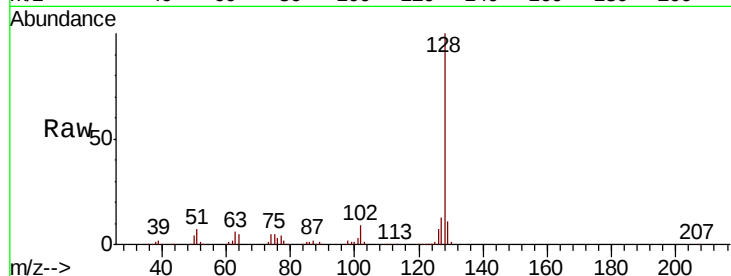
Tot Ion:128 Resp: 449213

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

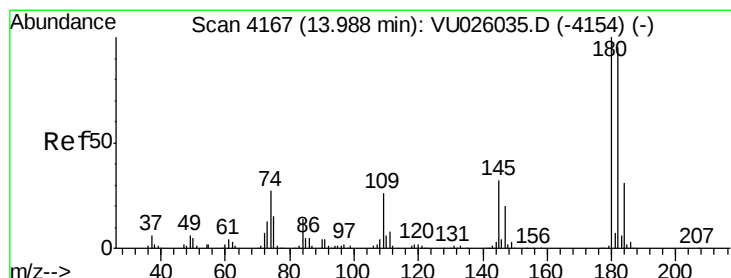
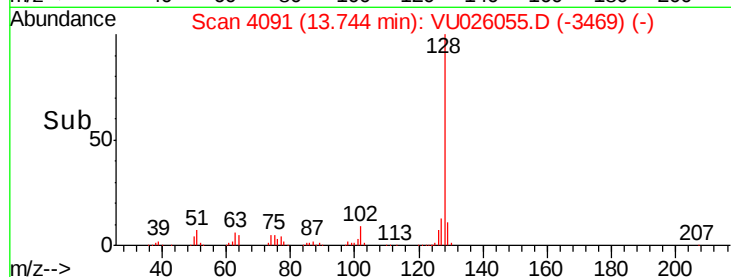
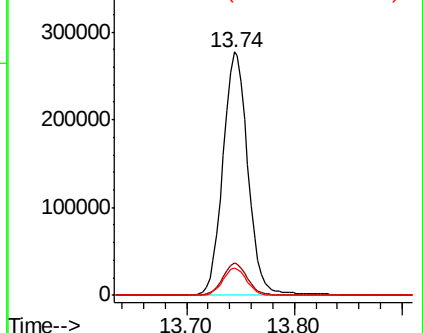
129 10.9 8.6 13.0



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: 48.593 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. 0.00 min

Lab File: VU026055.D

Acq: 10 Aug 2018 20:59

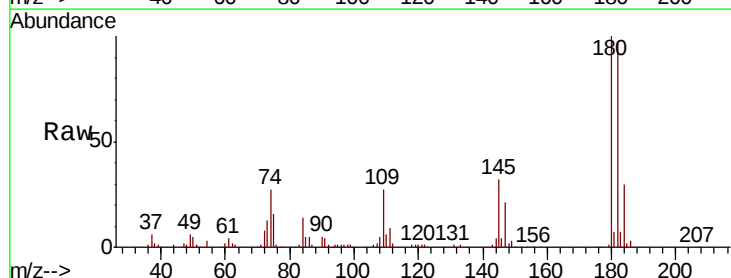
Tgt Ion:180 Resp: 155440

Ion Ratio Lower Upper

180 100

182 97.1 76.5 114.7

145 31.1 24.7 37.1



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

