

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052019\
 Data File : VU032182.D
 Acq On : 21 May 2019 02:56
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 21 08:47:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR051619WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue May 21 08:29:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	363653	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	361651	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	168882	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	99340	3.24	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.80%
7) Chloroethane-d5	1.68	69	93293	3.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.20%
11) 1,1-Dichloroethene-d2	2.27	63	177720	3.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.80%
20) 2-Butanone-d5	4.20	46	289001	48.06	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.12%
24) Chloroform-d	4.64	84	238294	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
26) 1,2-Dichloroethane-d4	5.31	65	117731	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.80%
32) Benzene-d6	5.33	84	453880	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.20%
36) 1,2-Dichloropropane-d6	6.33	67	136161	4.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.40%
41) Toluene-d8	7.56	98	410718	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
43) trans-1,3-Dichloropropene-	7.85	79	48281	4.16	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.20%
46) 2-Hexanone-d5	8.31	63	262130	50.00	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.00%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	120454	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	159486	4.46	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	81845	4.497	ug/L	94
3) Chloromethane	1.32	50	70116	4.014	ug/L	99
5) Vinyl chloride	1.40	62	80996	4.414	ug/L	97
6) Bromomethane	1.63	94	47750	4.514	ug/L	90
8) Chloroethane	1.69	64	45519	4.000	ug/L	98
9) Trichlorofluoromethane	1.88	101	115068	5.111	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	68385	4.584	ug/L	93
12) 1,1-Dichloroethene	2.28	96	69707	4.773	ug/L #	73
13) Acetone	2.34	43	85333	43.221	ug/L	99
14) Carbon disulfide	2.47	76	199606	4.285	ug/L	99
15) Methyl Acetate	2.62	43	23042	4.070	ug/L	98
16) Methylene chloride	2.69	84	78216	4.487	ug/L	95
17) Methyl tert-butyl Ether	3.00	73	158353	4.612	ug/L	97
18) trans-1,2-Dichloroethene	2.97	96	75894	4.855	ug/L	91
19) 1,1-Dichloroethane	3.44	63	117632	4.744	ug/L	98
21) 2-Butanone	4.29	43	135335	47.756	ug/L	92
22) cis-1,2-Dichloroethene	4.22	96	77444	5.036	ug/L	86

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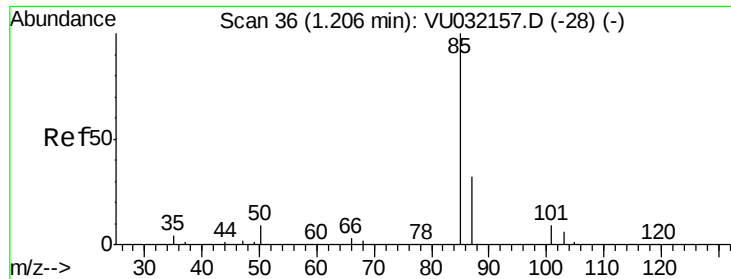
Instrument :
 MSVOA_U
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Quant Time: May 21 08:47:52 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.54	128	35693	5.409	ug/L	97
25) Chloroform	4.67	83	131907	4.974	ug/L	99
27) 1,2-Dichloroethane	5.40	62	72172	4.713	ug/L	98
29) 1,1,1-Trichloroethane	4.91	97	109346	5.183	ug/L	96
30) Cyclohexane	4.98	56	83709	4.314	ug/L	95
31) Carbon tetrachloride	5.13	117	92090	5.133	ug/L	99
33) Benzene	5.38	78	277461	4.996	ug/L	100
34) Trichloroethene	6.18	95	72649	4.823	ug/L	92
35) Methylcyclohexane	6.40	83	93917	4.330	ug/L	98
37) 1,2-Dichloropropane	6.43	63	62386	4.595	ug/L	100
38) Bromodichloromethane	6.75	83	87776	5.054	ug/L #	99
39) cis-1,3-Dichloropropene	7.27	75	86254	4.594	ug/L	96
40) 4-Methyl-2-pentanone	7.46	43	298709	47.457	ug/L	98
42) Toluene	7.63	91	300855	5.173	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	70210	4.810	ug/L	95
45) 1,1,2-Trichloroethane	8.06	97	51778	5.162	ug/L	97
47) Tetrachloroethene	8.22	164	61154	5.431	ug/L	96
48) 2-Hexanone	8.36	43	245832	50.353	ug/L	99
49) Dibromochloromethane	8.47	129	62066	5.369	ug/L	100
50) 1,2-Dibromoethane	8.58	107	49952	5.197	ug/L	99
51) Chlorobenzene	9.12	112	190589	5.188	ug/L	92
52) Ethylbenzene	9.24	91	291362	4.994	ug/L	97
53) m,p-Xylene	9.37	106	110529	4.987	ug/L	99
54) o-Xylene	9.77	106	111778	5.232	ug/L	88
55) Styrene	9.79	104	191576	5.289	ug/L	94
56) Isopropylbenzene	10.16	105	281339	5.153	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	63483	5.073	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	44677	5.181	ug/L	100
61) Bromoform	9.95	173	35684	5.506	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	141131	5.245	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	143114	5.110	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	146835	5.378	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.65	75	9586	5.381	ug/L	92
67) 1,3,5-Trichlorobenzene	12.88	180	106517	5.318	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	76984	5.560	ug/L	99
69) Naphthalene	13.74	128	108351	5.031	ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	82243	5.852	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.497 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

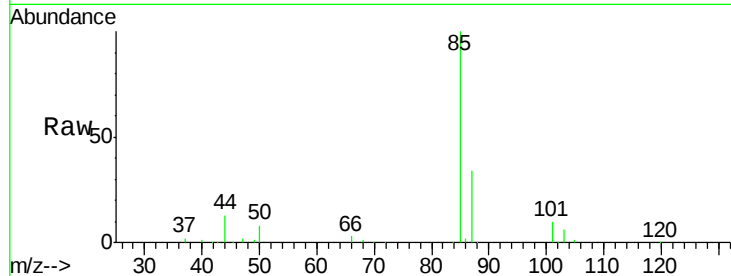
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 81845

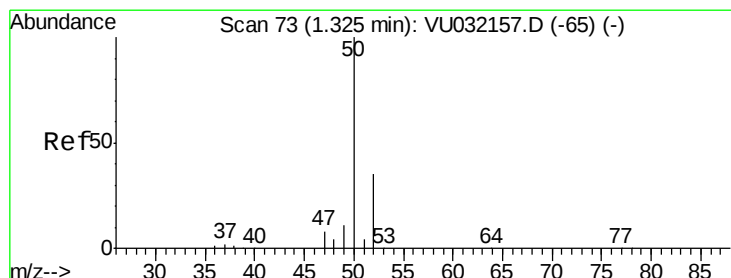
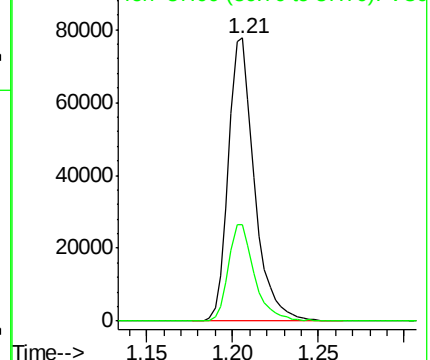
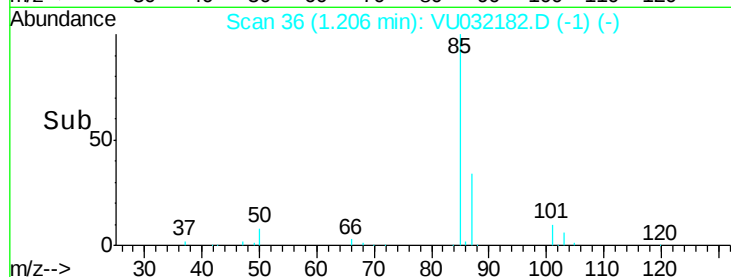
Ion Ratio Lower Upper

85 100

87 34.2 24.8 37.2



Abundance Ion 85.00 (84.70 to 85.70): VU032182.D (-1) (-)



#3

Chloromethane

Concen: 4.014 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032182.D

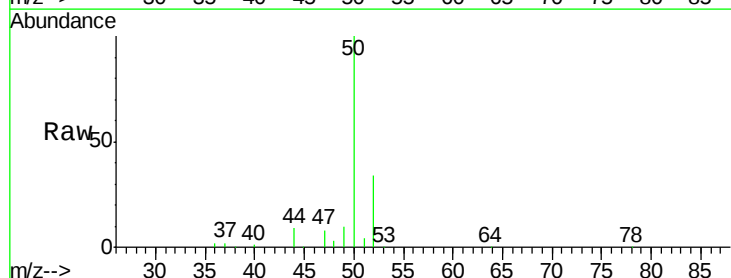
Acq: 21 May 2019 02:56

Tgt Ion: 50 Resp: 70116

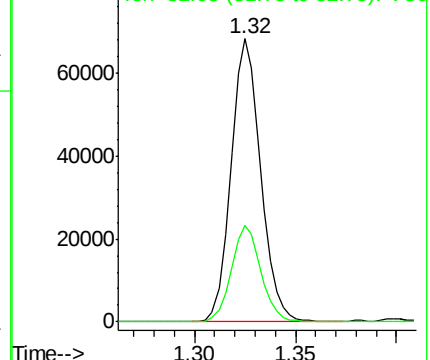
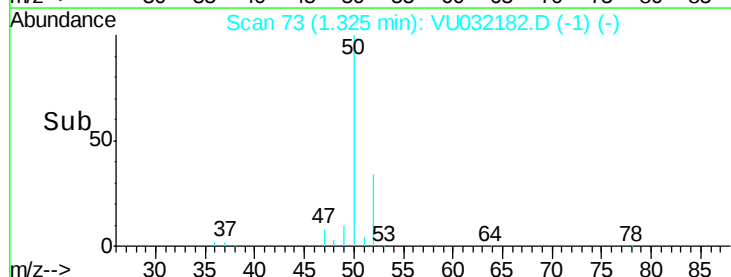
Ion Ratio Lower Upper

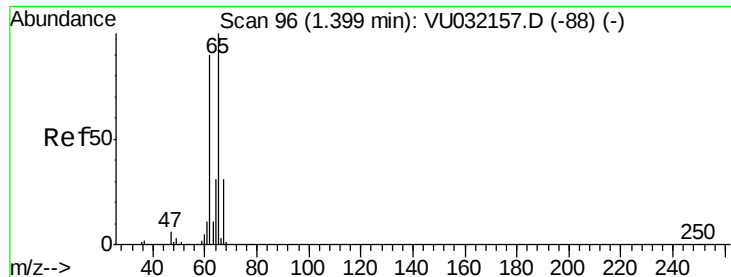
50 100

52 33.9 23.2 43.0



Abundance Ion 50.05 (49.75 to 50.75): VU032182.D (-1) (-)





#5

Vinyl chloride

Concen: 4.414 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

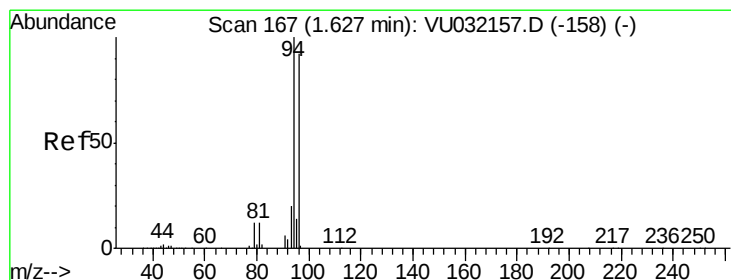
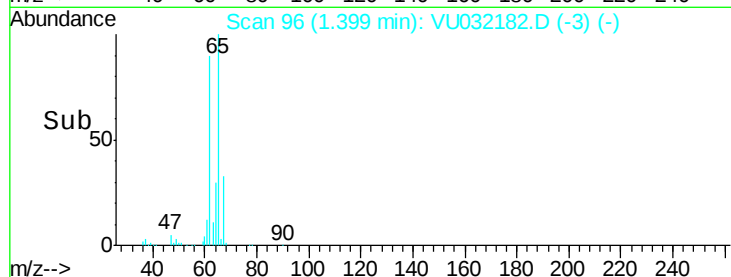
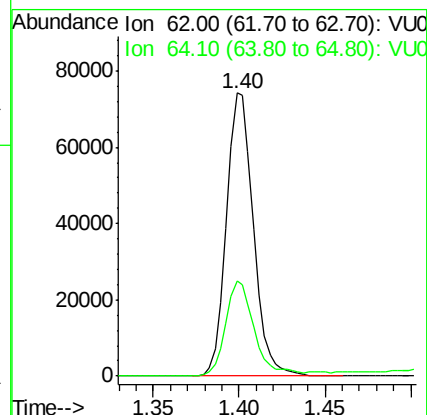
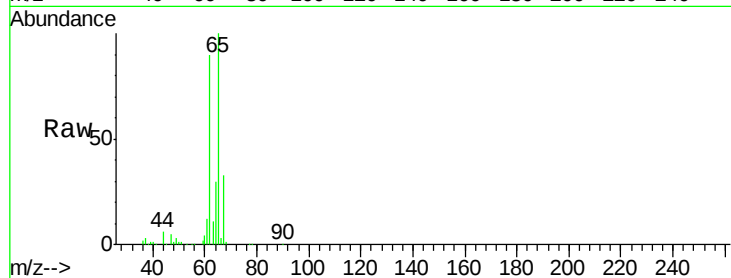
ClientSampleId :

Tot Ion: 62 Resp: 80996

Ion Ratio Lower Upper

62 100

64 33.9 24.8 46.1



#6

Bromomethane

Concen: 4.514 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU032182.D

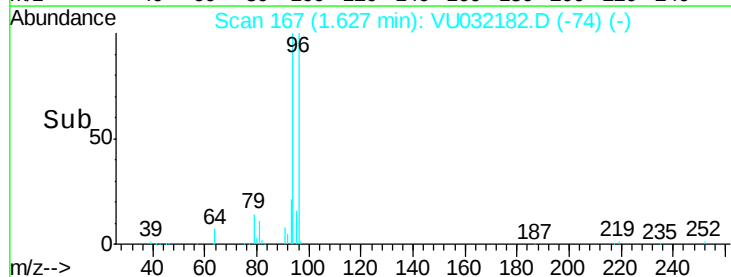
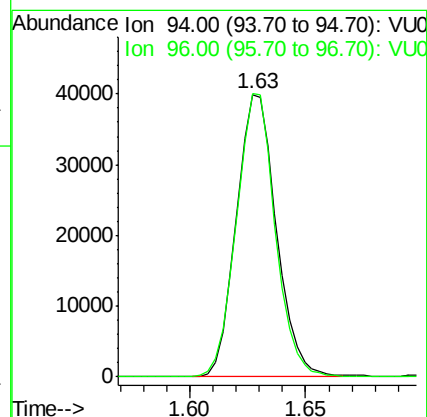
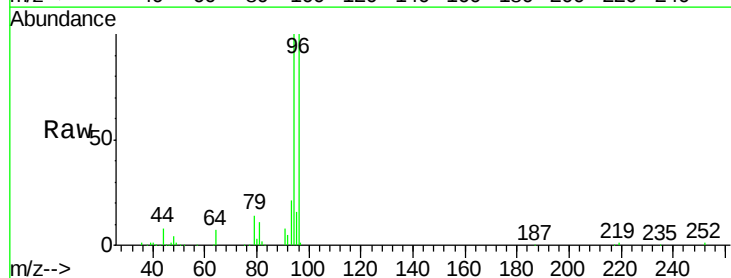
Acq: 21 May 2019 02:56

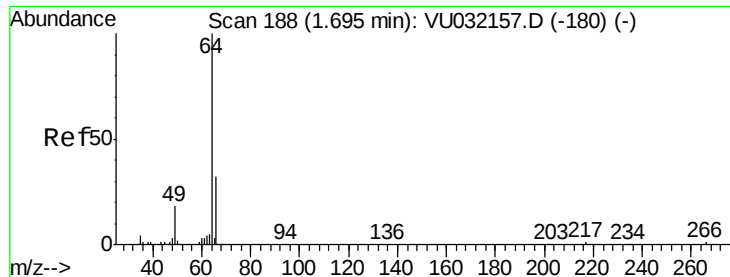
Tgt Ion: 94 Resp: 47750

Ion Ratio Lower Upper

94 100

96 100.2 63.3 117.7

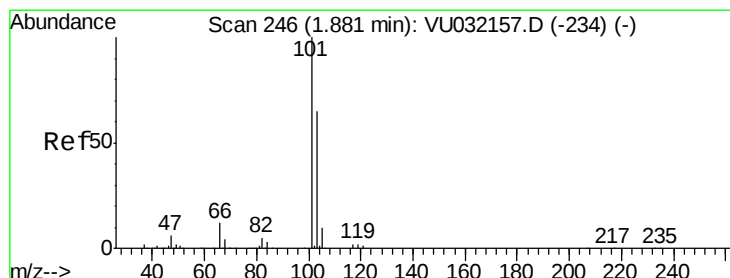
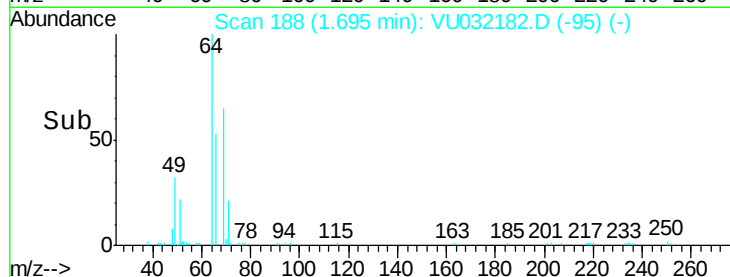
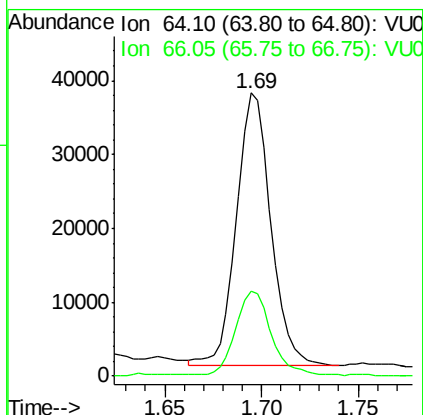
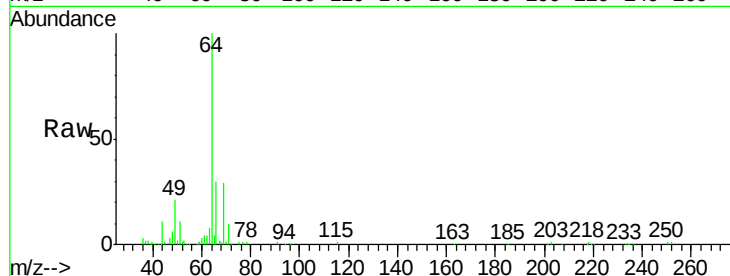




#8
Chloroethane
Concen: 4.000 ug/L
RT: 1.69 min Scan# 188
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

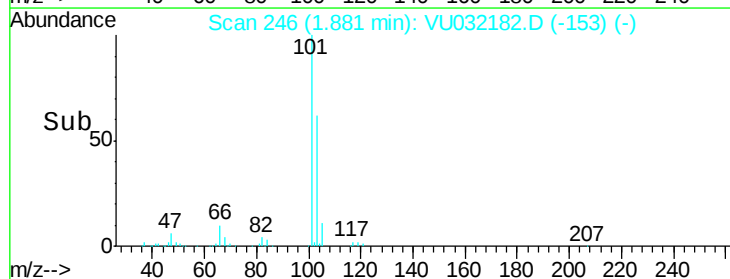
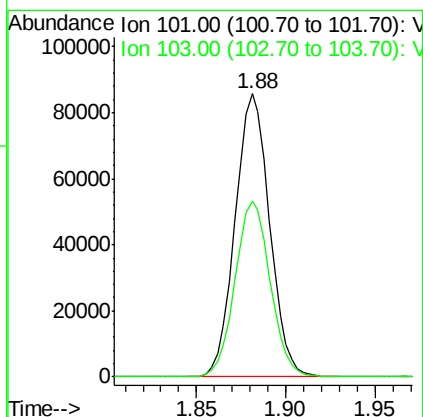
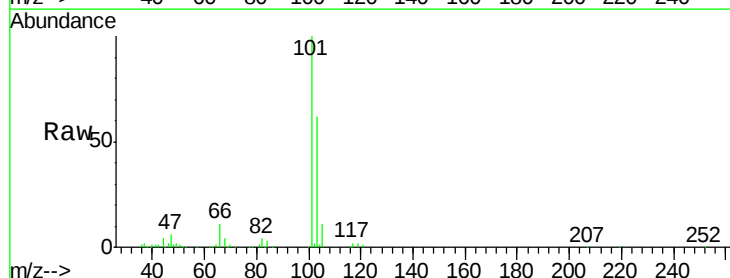
Instrument :
MSVOA_U
ClientSampleId :

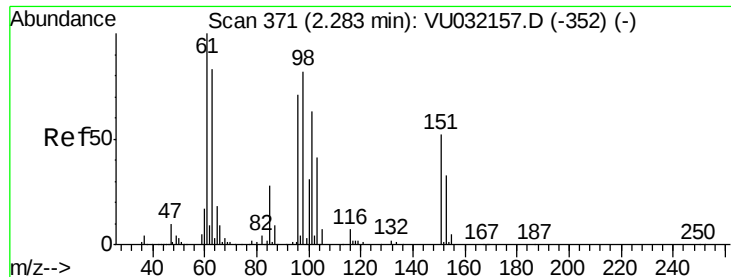
Tot Ion: 64 Resp: 45519
Ion Ratio Lower Upper
64 100
66 30.2 22.0 41.0



#9
Trichlorofluoromethane
Concen: 5.111 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Tgt Ion:101 Resp: 115068
Ion Ratio Lower Upper
101 100
103 63.4 51.4 77.0





#10

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

Concen: 4.584 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

ClientSampleId :

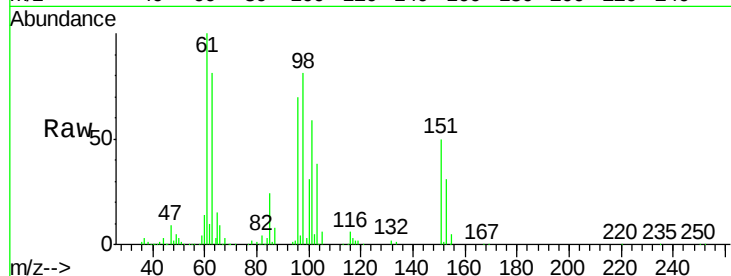
Tot Ion:101 Resp: 68385

Ion Ratio Lower Upper

101 100

85 41.1 33.8 50.8

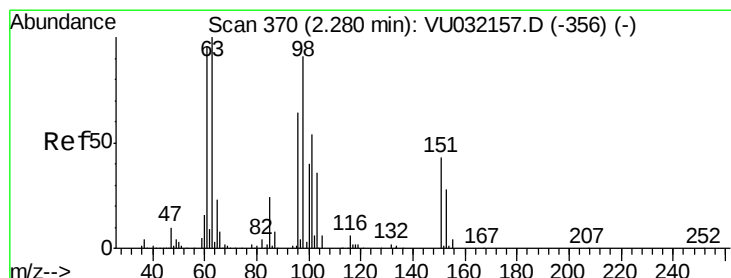
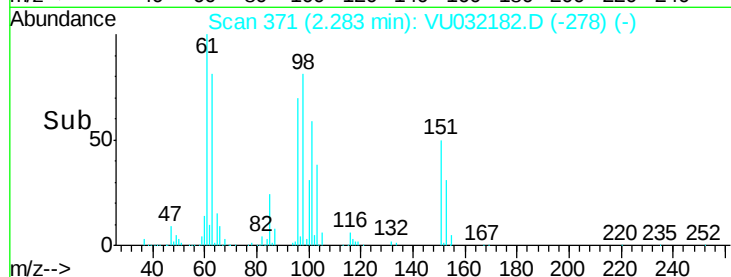
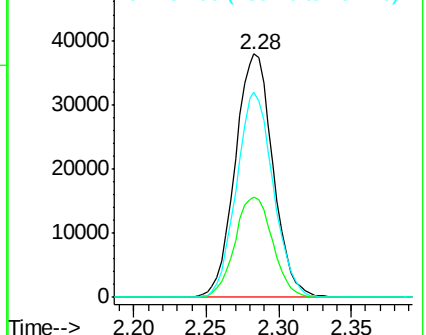
151 82.1 59.4 89.2



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: 4.773 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

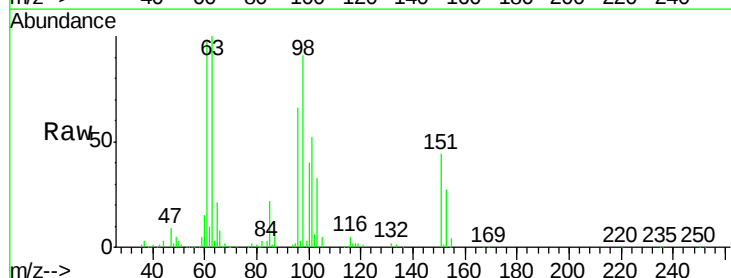
Tgt Ion: 96 Resp: 69707

Ion Ratio Lower Upper

96 100

61 148.8 111.7 207.5

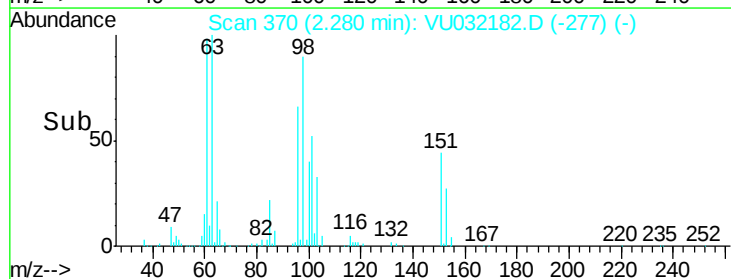
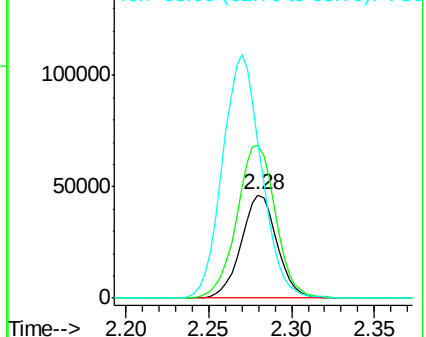
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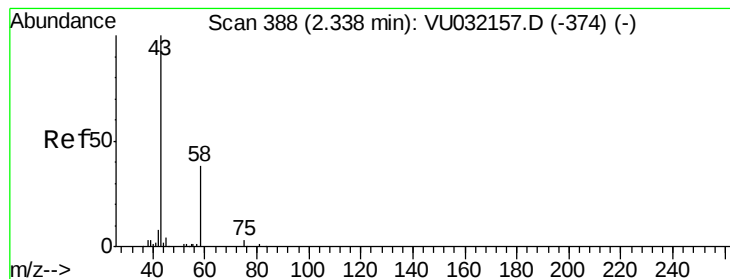


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 43.221 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

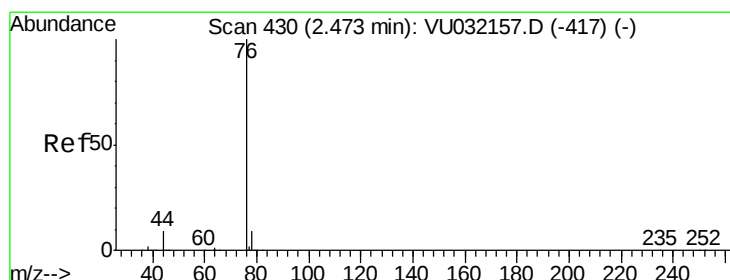
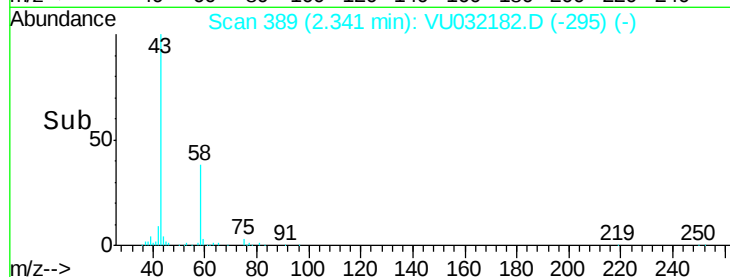
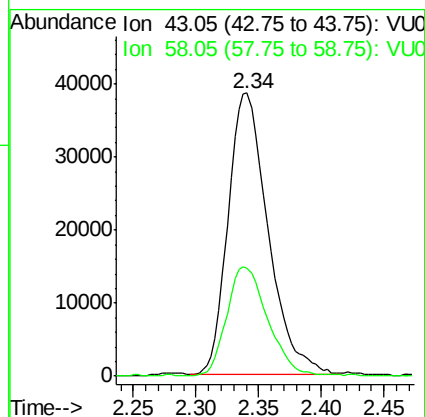
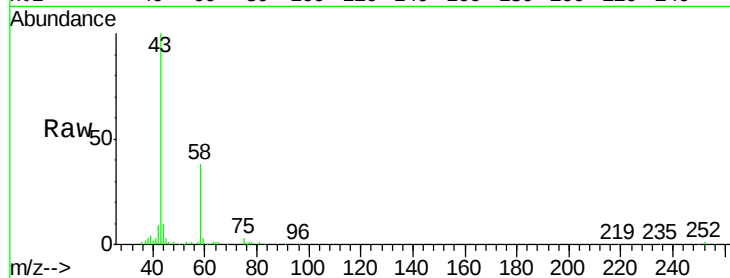
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 85333

Ion Ratio Lower Upper

43 100

58 39.9 0.0 78.8



#14

Carbon disulfide

Concen: 4.285 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032182.D

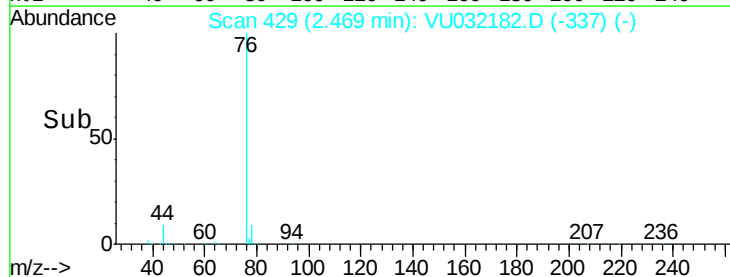
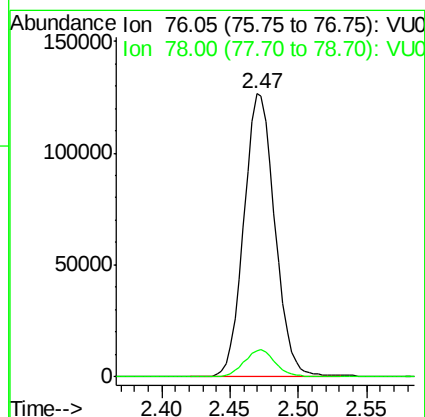
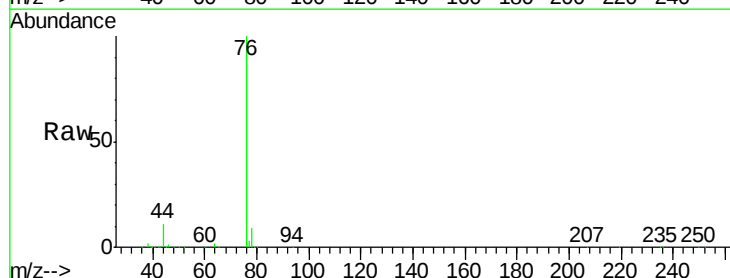
Acq: 21 May 2019 02:56

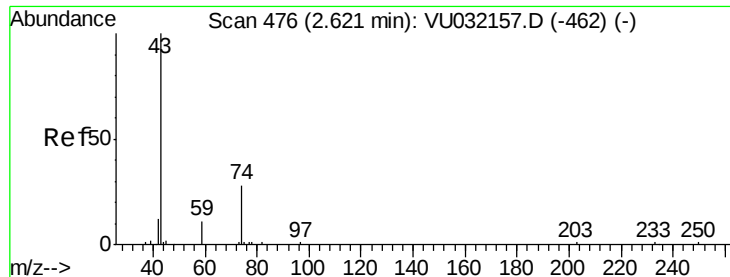
Tgt Ion: 76 Resp: 199606

Ion Ratio Lower Upper

76 100

78 9.3 7.8 11.6





#15

Methvl Acetate

Concen: 4.070 ug/L

RT: 2.62 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

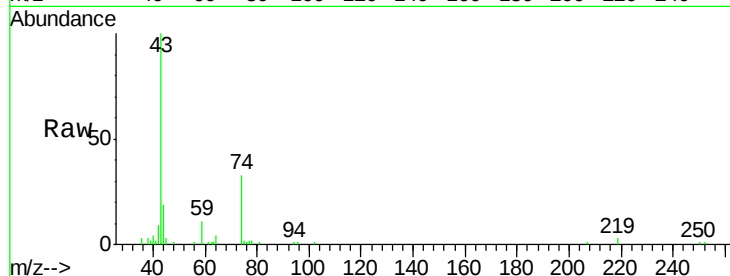
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 23042

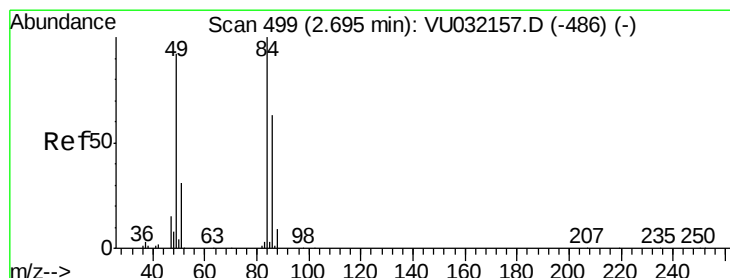
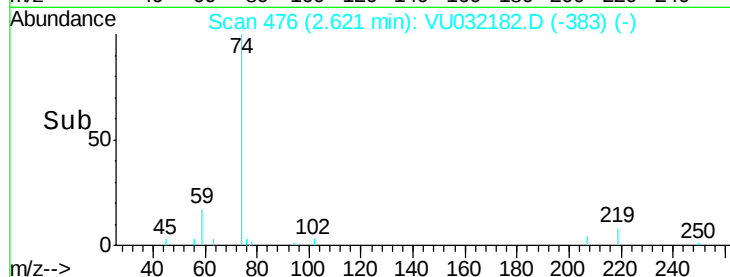
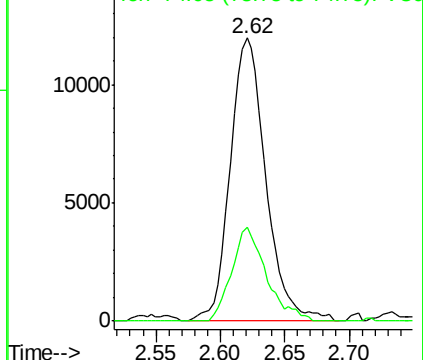
Ion Ratio Lower Upper

43 100

74 32.0 26.4 39.6



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.487 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

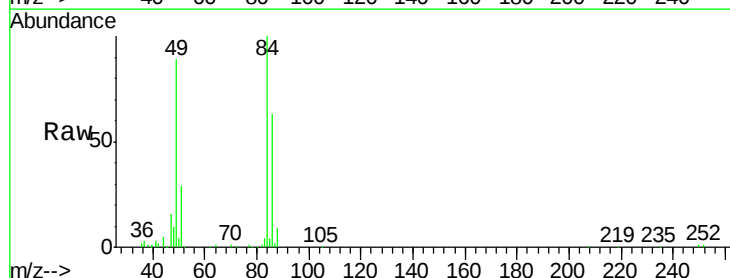
Tgt Ion: 84 Resp: 78216

Ion Ratio Lower Upper

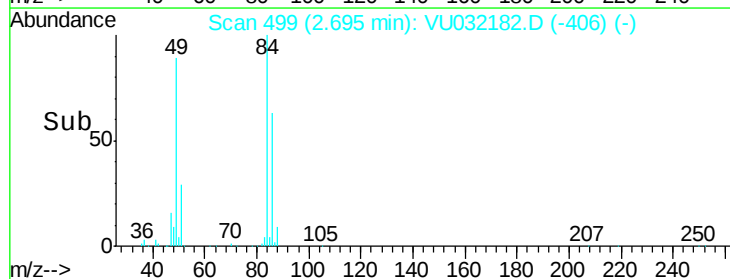
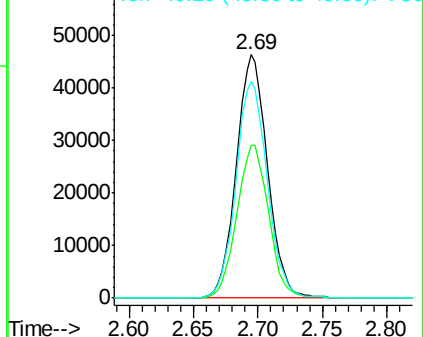
84 100

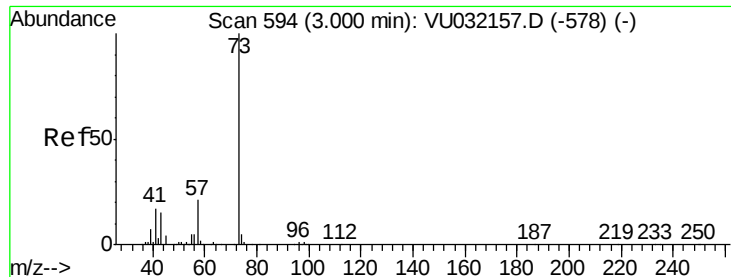
86 62.9 43.1 80.1

49 88.9 67.7 125.7



Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0



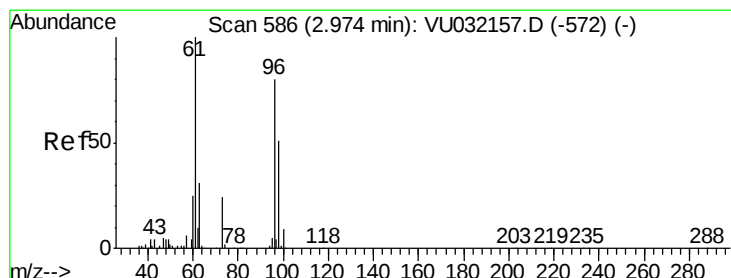
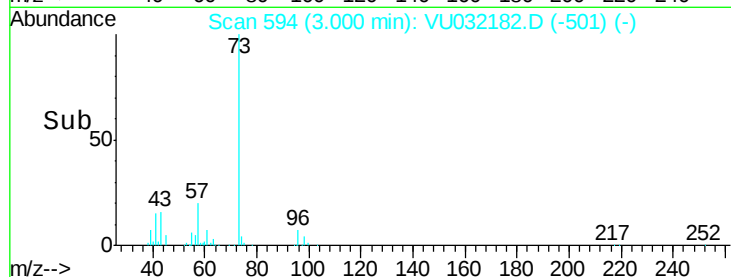
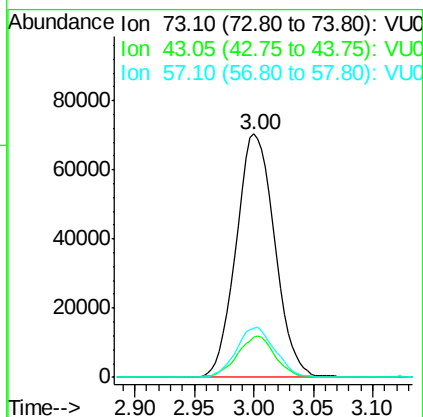
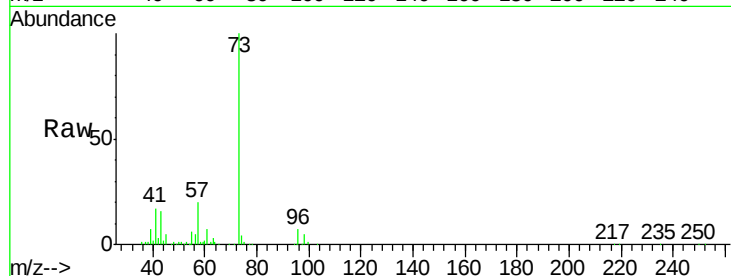


#17

Methvl tert-butvl Ether
 Concen: 4.612 ug/L
 RT: 3.00 min Scan# 594
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

Instrument :
 MSVOA_U
 ClientSampleId :

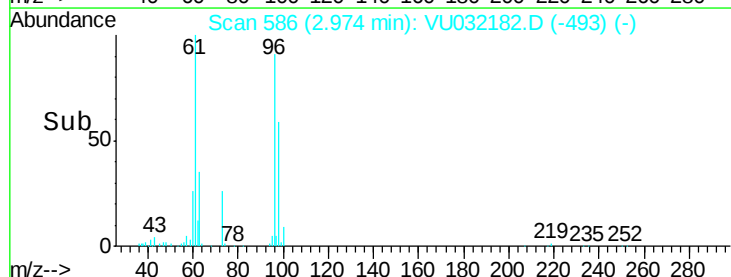
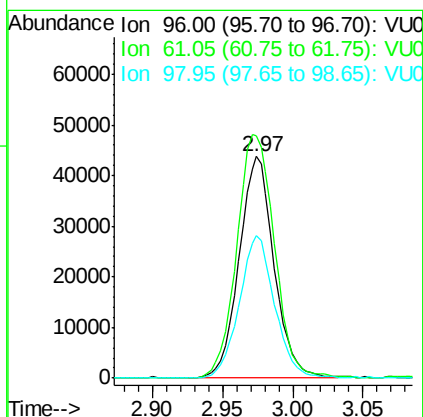
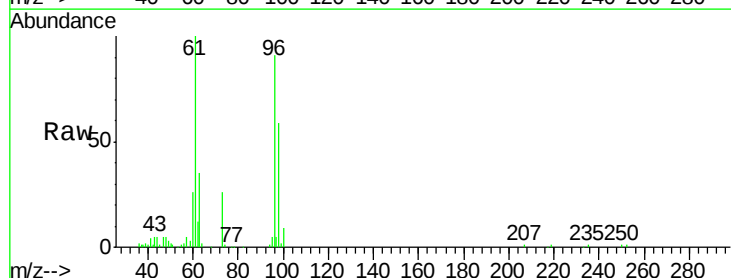
Tot Ion	Ratio	Lower	Upper
73	100		
43	16.7	13.0	19.6
57	20.6	17.9	26.9

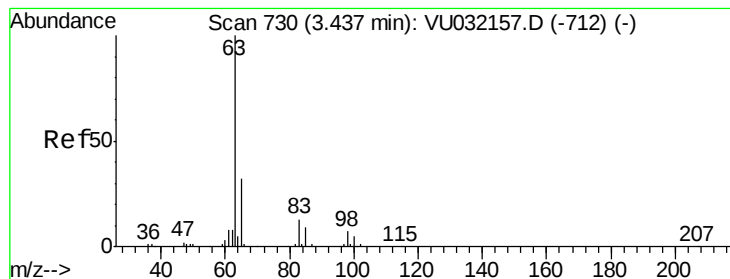


#18

trans-1,2-Dichloroethene
 Concen: 4.855 ug/L
 RT: 2.97 min Scan# 586
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	109.6	86.5	160.7
98	64.4	43.5	80.9





#19

1,1-Dichloroethane

Concen: 4.744 ug/L

RT: 3.44 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampleId :

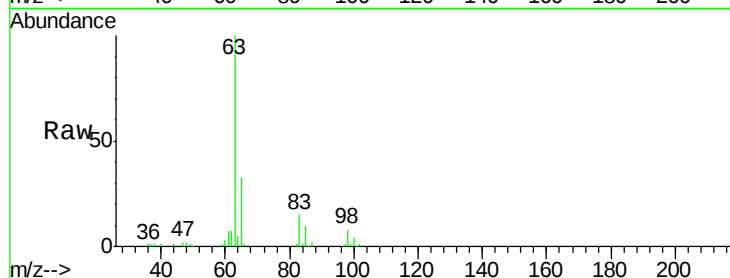
Tot Ion: 63 Resp: 117632

Ion Ratio Lower Upper

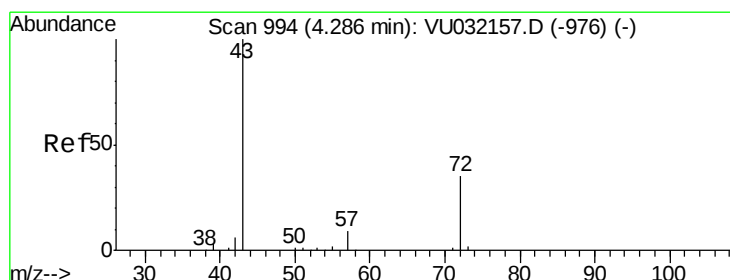
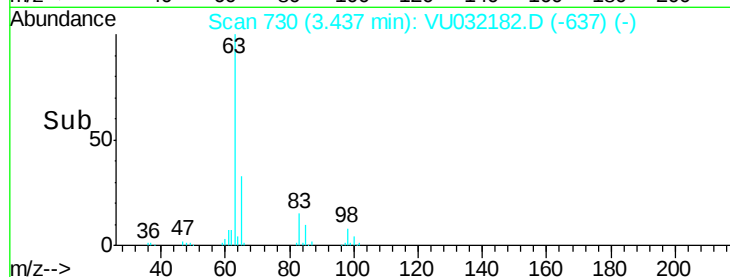
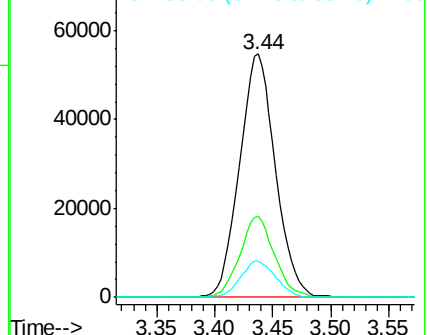
63 100

65 33.3 23.0 42.6

83 15.1 9.3 17.3



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



#21

2-Butanone

Concen: 47.756 ug/L

RT: 4.29 min Scan# 995

Delta R.T. 0.00 min

Lab File: VU032182.D

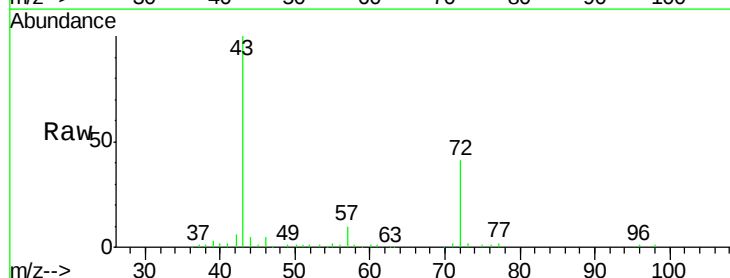
Acq: 21 May 2019 02:56

Tgt Ion: 43 Resp: 135335

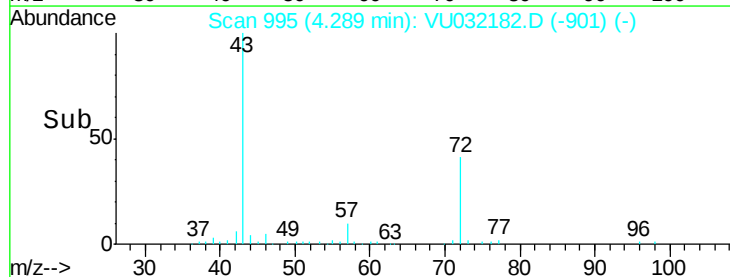
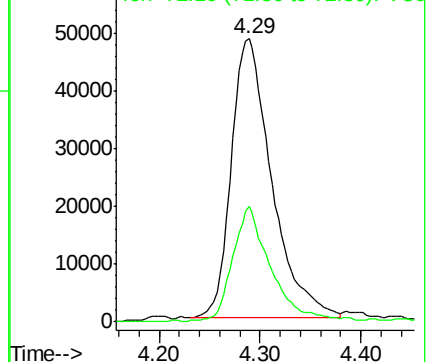
Ion Ratio Lower Upper

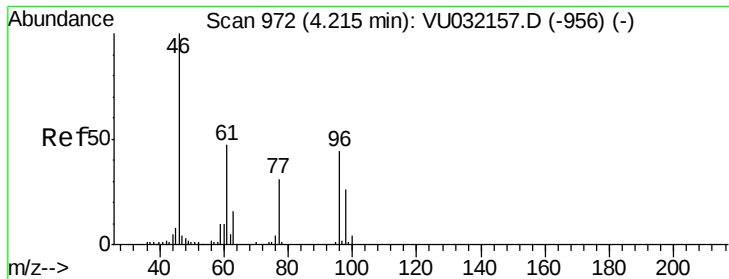
43 100

72 37.8 16.8 50.3



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 72.10 (71.80 to 72.80): VU0



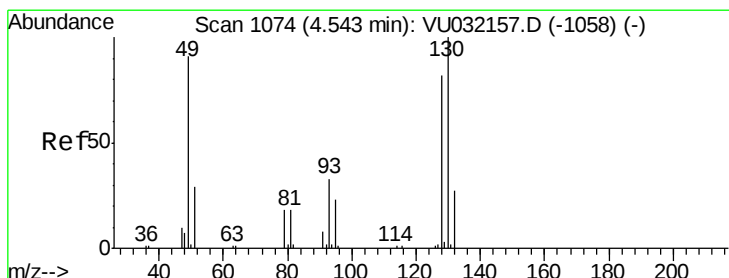
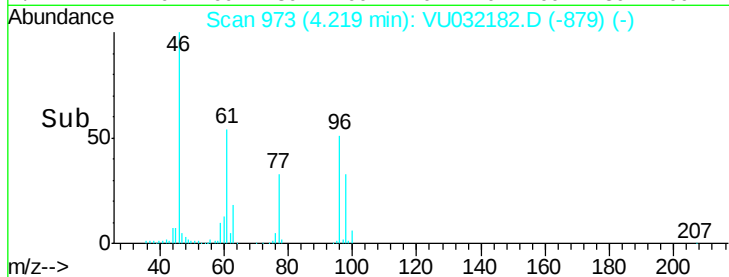
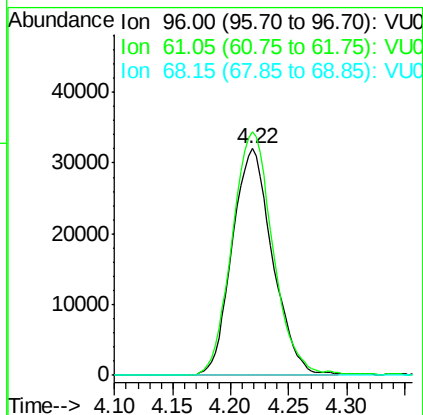
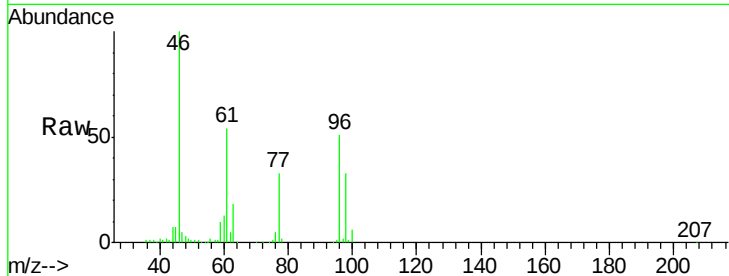


#22

cis-1,2-Dichloroethene
Concen: 5.036 ug/L
RT: 4.22 min Scan# 973
Delta R.T. 0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampled :

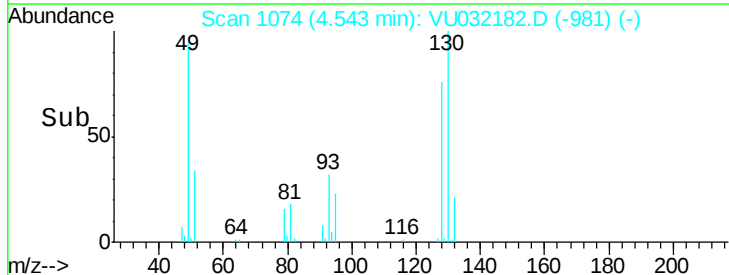
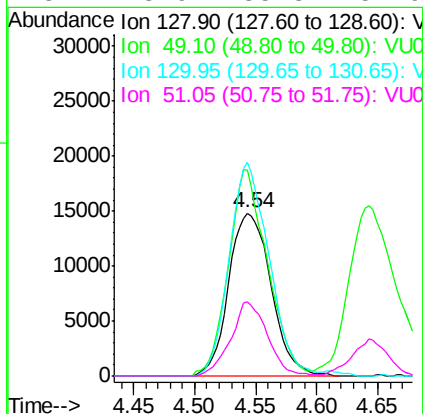
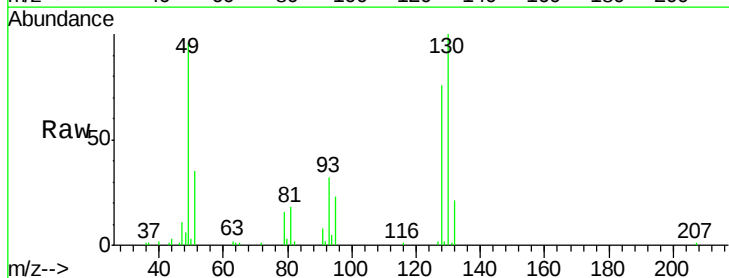
Tot Ion: 96 Resp: 77444
Ion Ratio Lower Upper
96 100
61 107.3 85.8 159.4
68 0.0 0.0 0.0

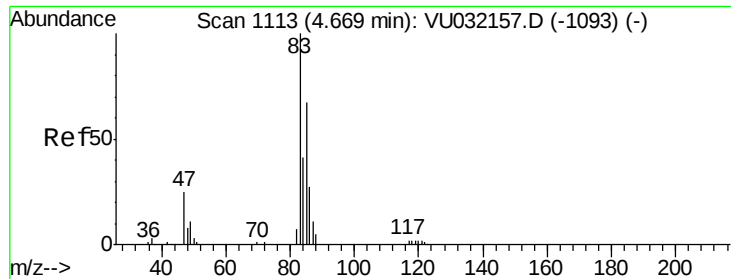


#23

Bromochloromethane
Concen: 5.409 ug/L
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Tgt Ion: 128 Resp: 35693
Ion Ratio Lower Upper
128 100
49 126.2 92.2 171.2
130 131.0 90.3 167.7
51 45.9 35.3 52.9





#25

Chloroform

Concen: 4.974 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

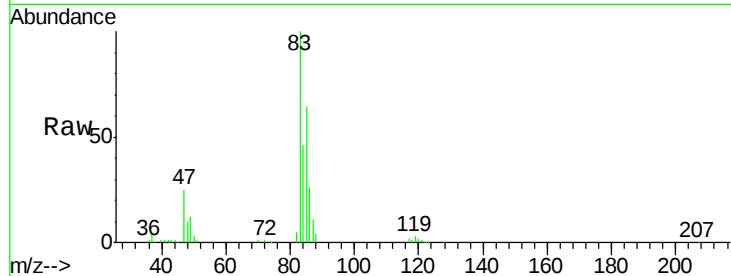
ClientSampled :

Tot Ion: 83 Resp: 131907

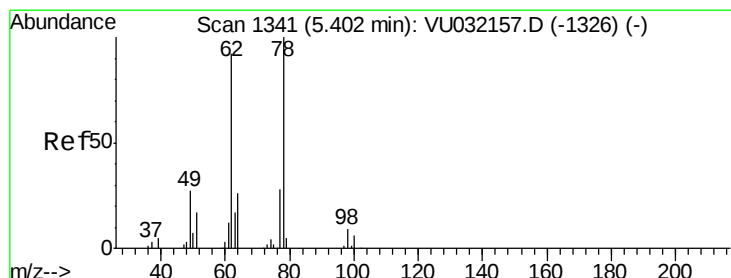
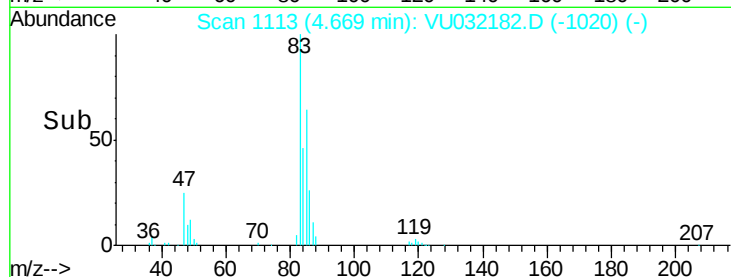
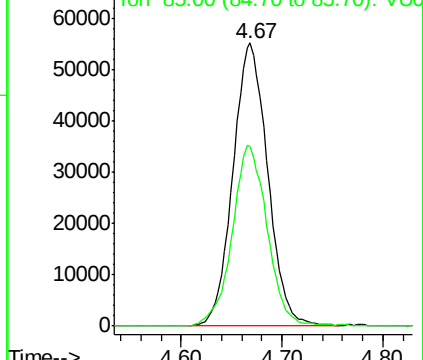
Ion Ratio Lower Upper

83 100

85 63.6 44.9 83.3



Abundance Ion 83.05 (82.75 to 83.75): VU032182.D (-1020) (-)



#27

1,2-Dichloroethane

Concen: 4.713 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU032182.D

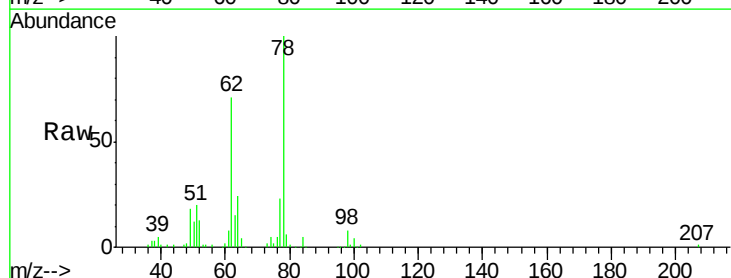
Acq: 21 May 2019 02:56

Tgt Ion: 62 Resp: 72172

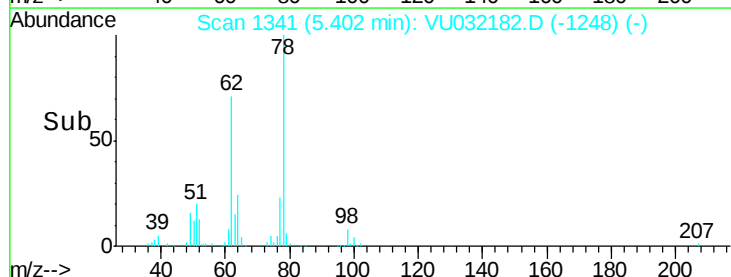
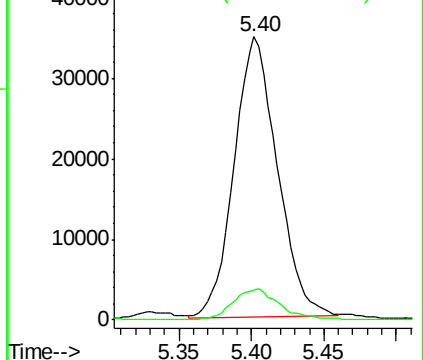
Ion Ratio Lower Upper

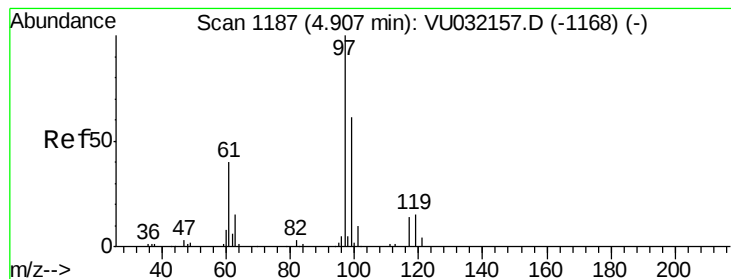
62 100

98 10.7 8.0 12.0



Abundance Ion 62.00 (61.70 to 62.70): VU032182.D (-1248) (-)





#29

1,1,1-Trichloroethane

Concen: 5.183 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampleId :

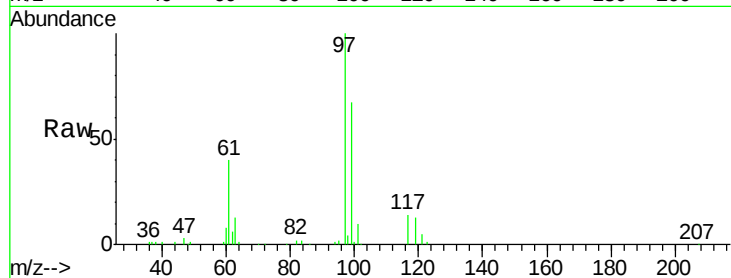
Tot Ion: 97 Resp: 109346

Ion Ratio Lower Upper

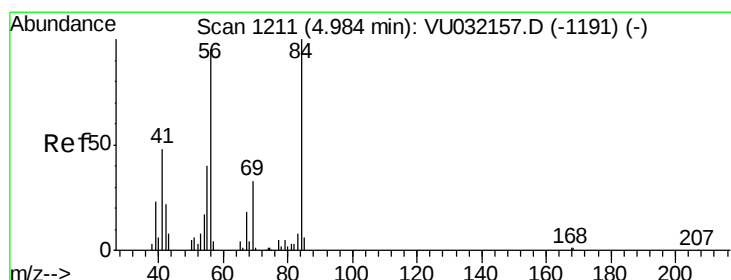
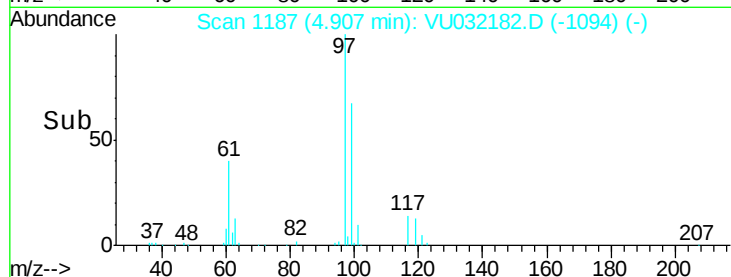
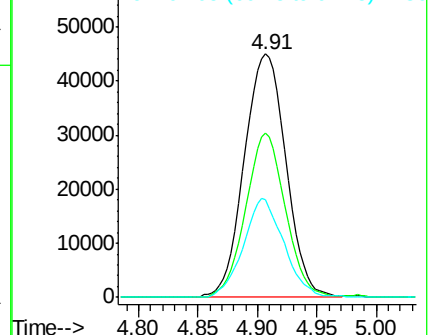
97 100

99 64.1 53.7 80.5

61 39.3 34.2 51.4



Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.314 ug/L

RT: 4.98 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

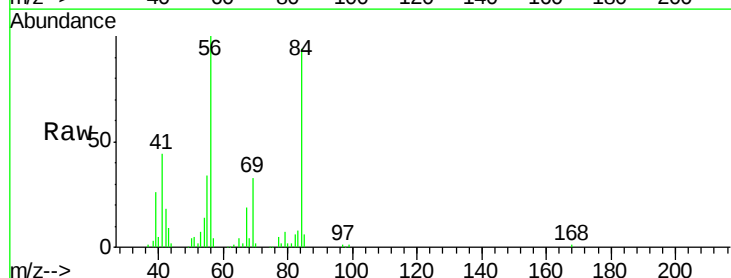
Tgt Ion: 56 Resp: 83709

Ion Ratio Lower Upper

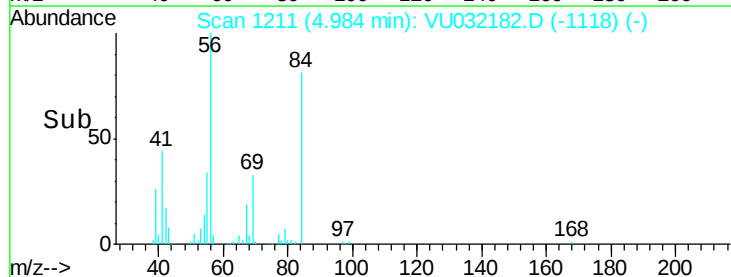
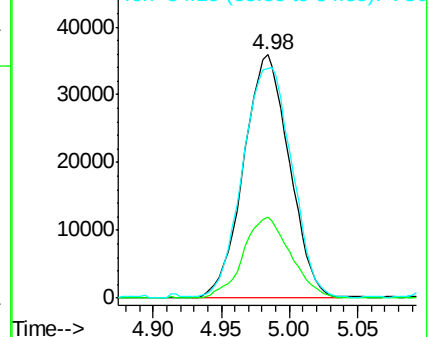
56 100

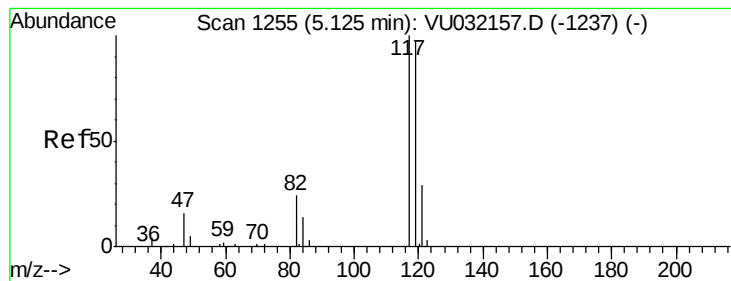
69 34.3 26.9 40.3

84 102.4 76.6 115.0



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.133 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

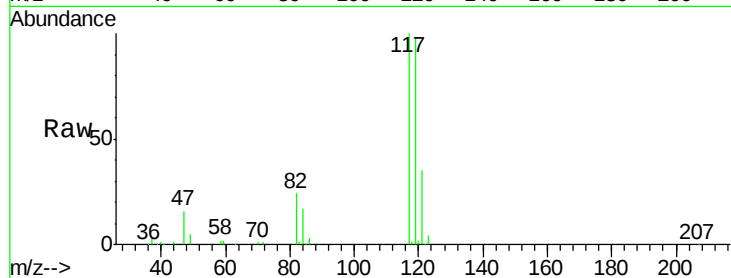
ClientSampleId :

Tot Ion:117 Resp: 92090

Ion Ratio Lower Upper

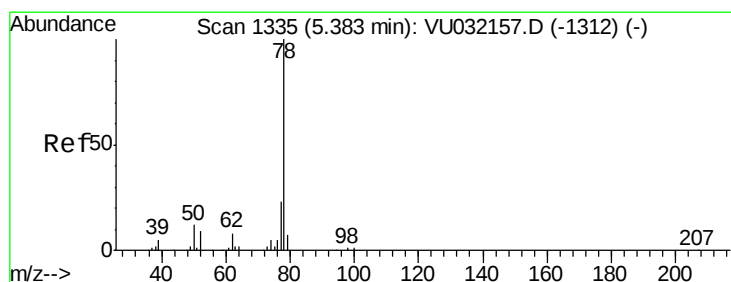
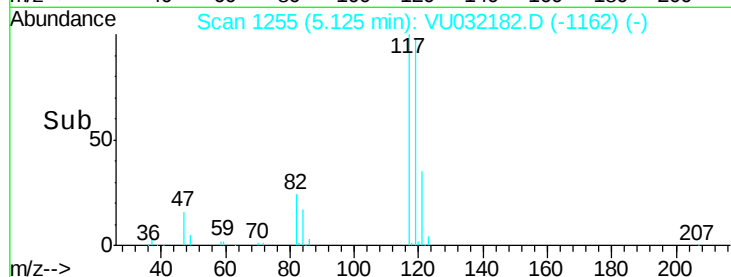
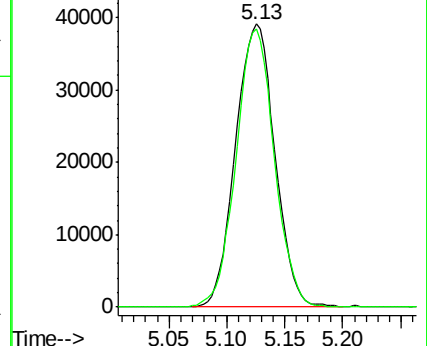
117 100

119 95.6 75.8 113.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.996 ug/L

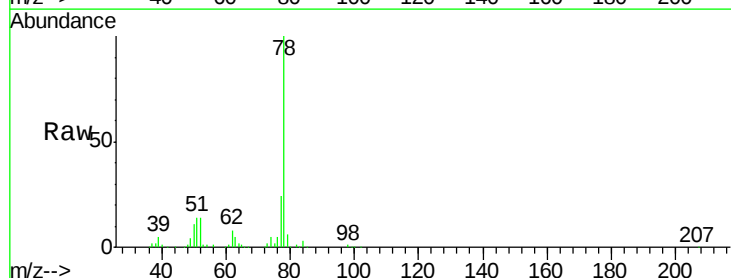
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

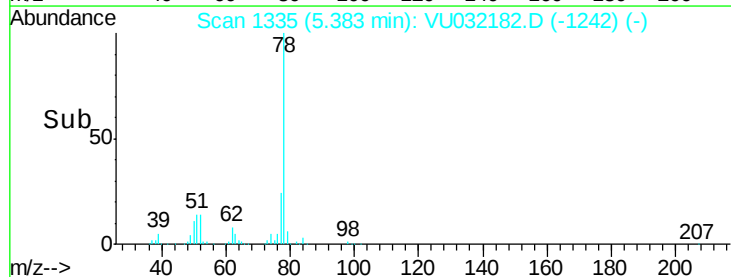
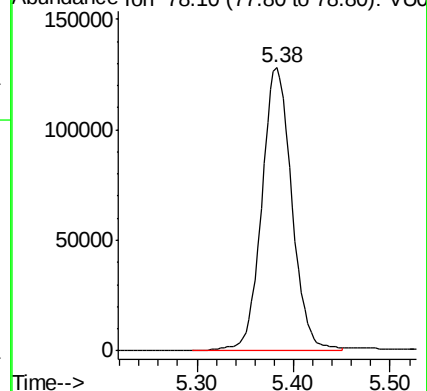
Lab File: VU032182.D

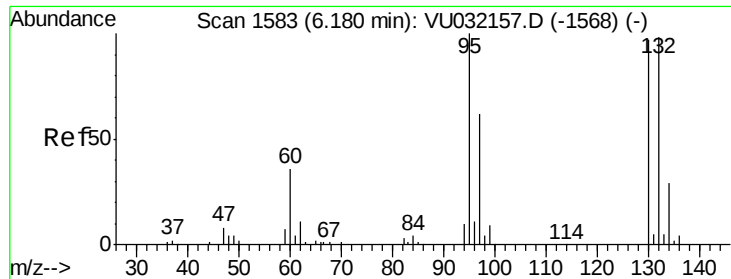
Acq: 21 May 2019 02:56

Tgt Ion: 78 Resp: 277461



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.823 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 72649

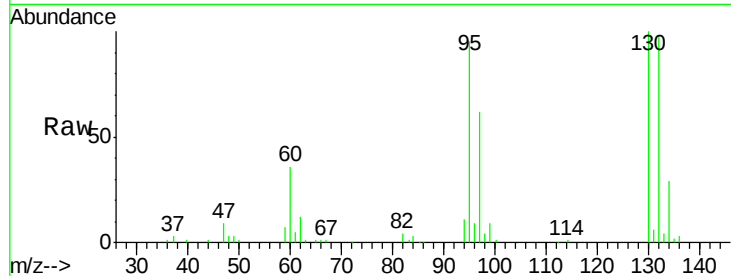
Ion Ratio Lower Upper

95 100

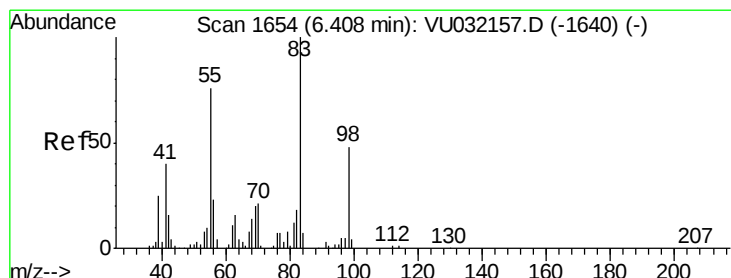
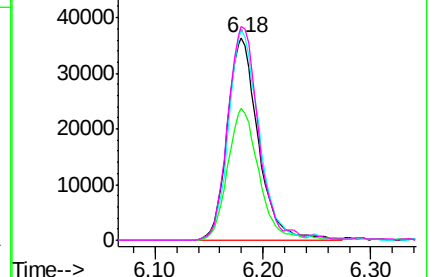
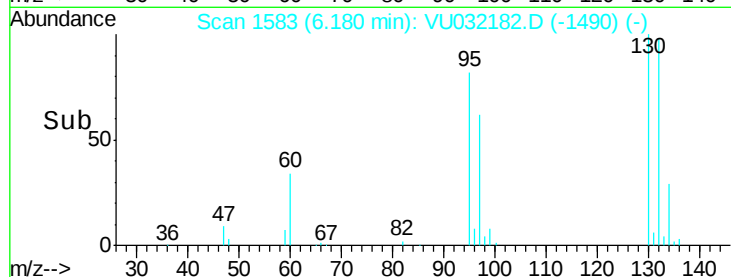
97 64.9 45.2 84.0

132 103.7 66.1 122.7

130 105.3 66.7 123.9



Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.330 ug/L

RT: 6.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

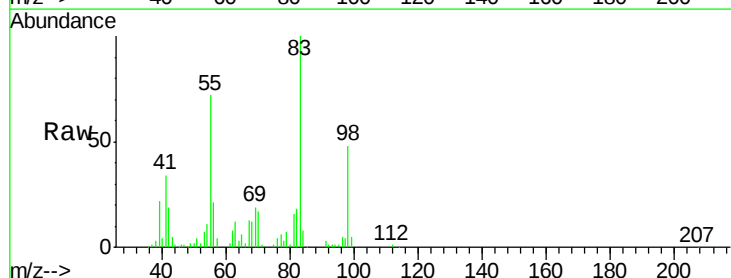
Tgt Ion: 83 Resp: 93917

Ion Ratio Lower Upper

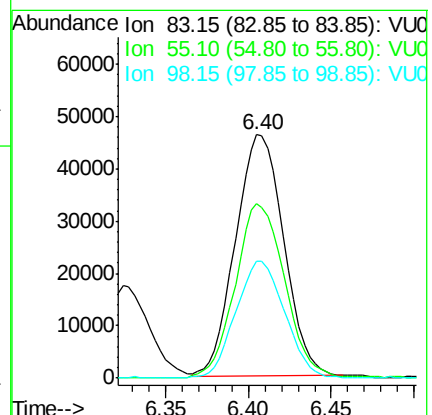
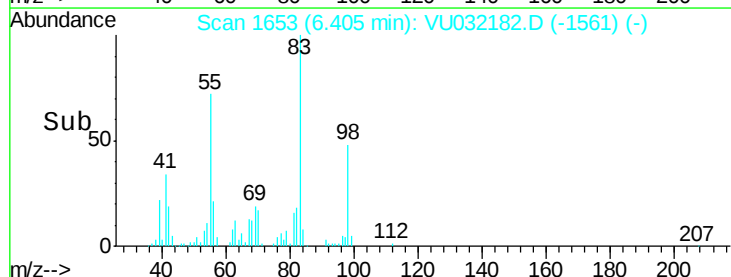
83 100

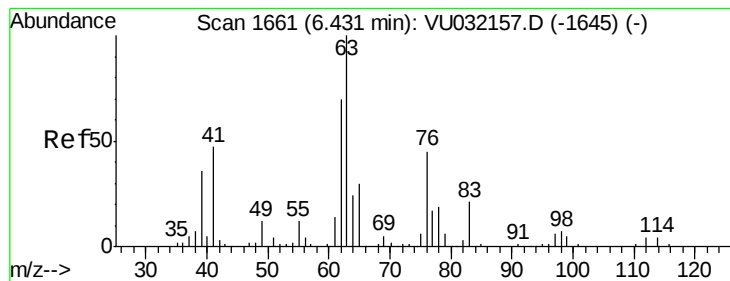
55 73.9 59.7 89.5

98 49.0 36.8 55.2



Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.595 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

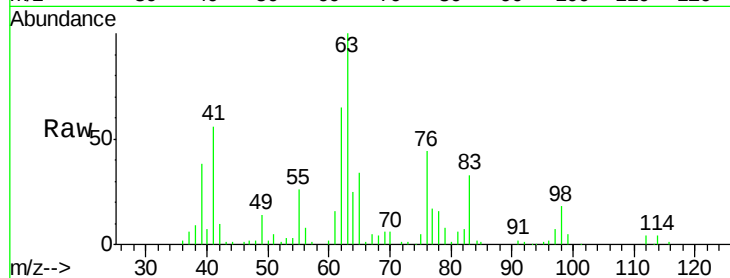
ClientSampleId :

Tot Ion: 63 Resp: 62386

Ion Ratio Lower Upper

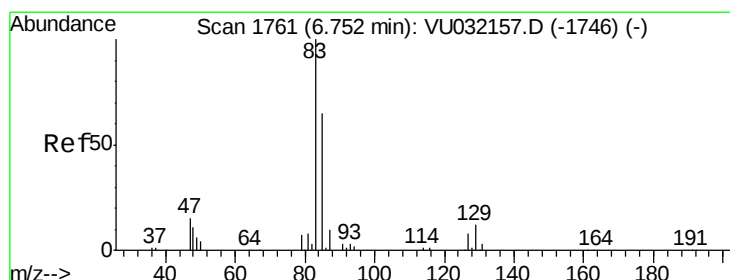
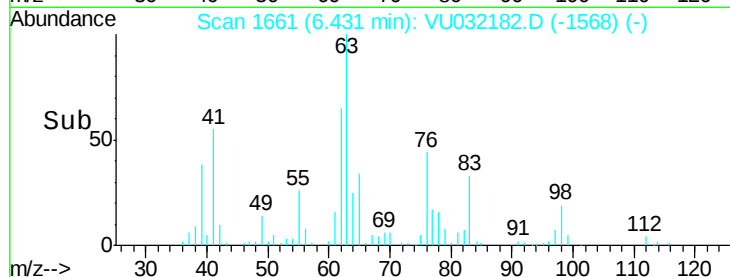
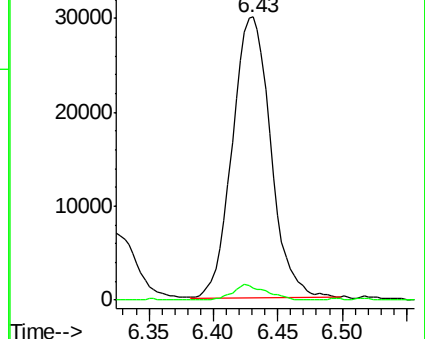
63 100

112 4.8 3.8 5.6



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 5.054 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

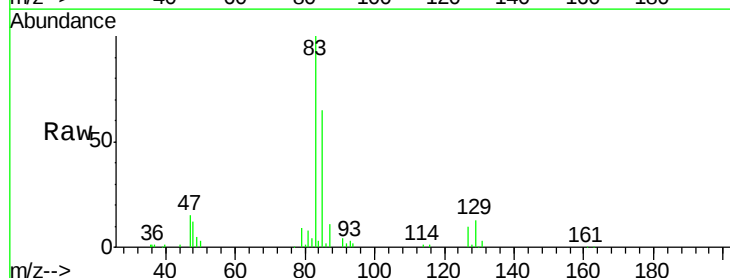
Tgt Ion: 83 Resp: 87776

Ion Ratio Lower Upper

83 100

85 64.6 45.5 84.5

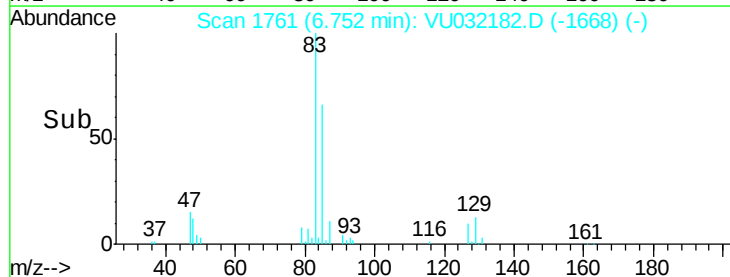
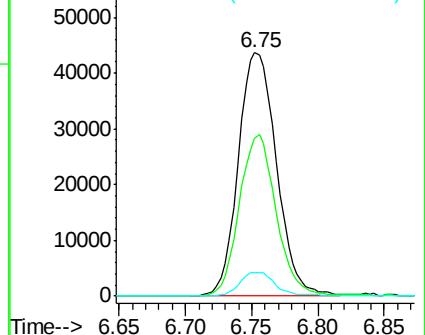
127 9.7 6.3 9.5#

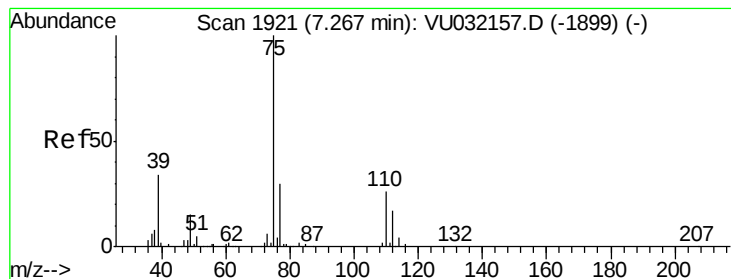


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V



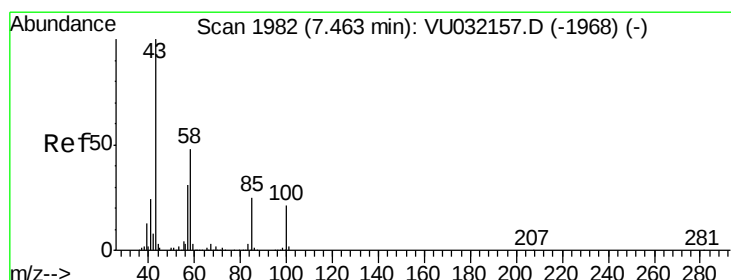
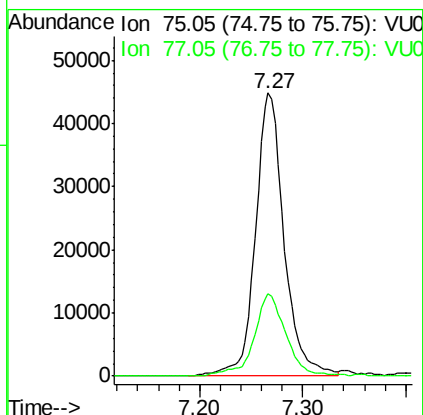
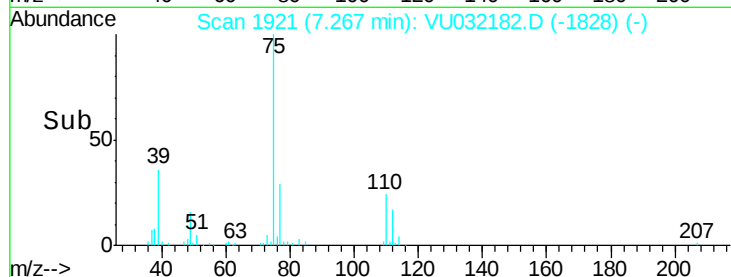
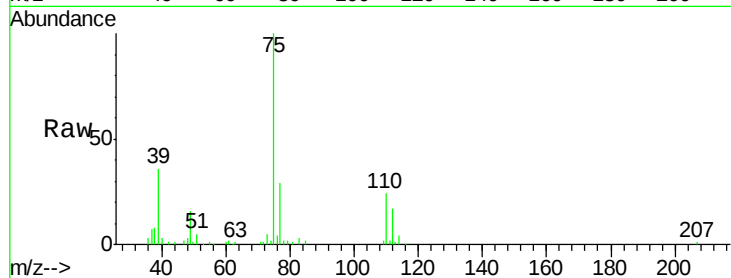


#39

cis-1,3-Dichloropropene
Concen: 4.594 ug/L
RT: 7.27 min Scan# 1921
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampled :

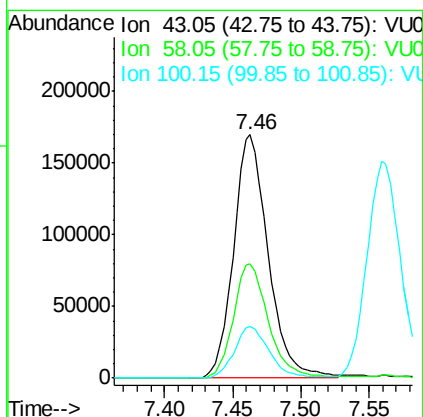
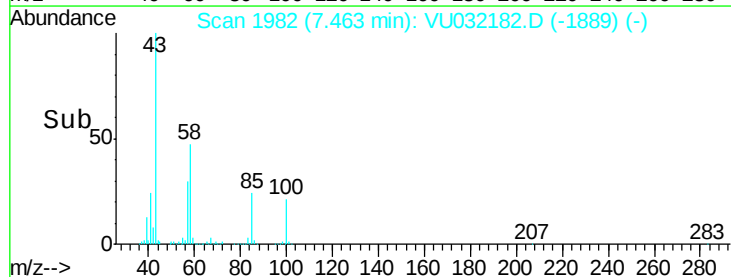
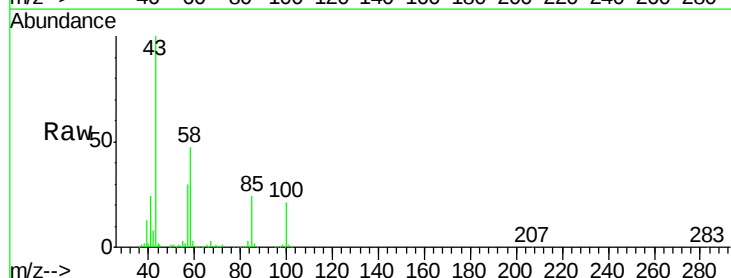
Tot Ion: 75 Resp: 86254
Ion Ratio Lower Upper
75 100
77 29.0 21.7 40.3

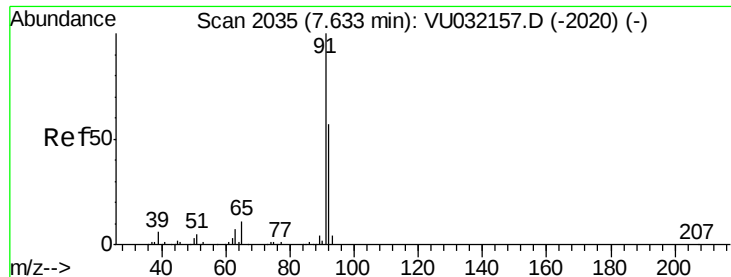


#40

4-Methyl-2-pentanone
Concen: 47.457 ug/L
RT: 7.46 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Tgt Ion: 43 Resp: 298709
Ion Ratio Lower Upper
43 100
58 47.5 37.3 55.9
100 21.4 15.5 23.3





#42

Toluene

Concen: 5.173 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

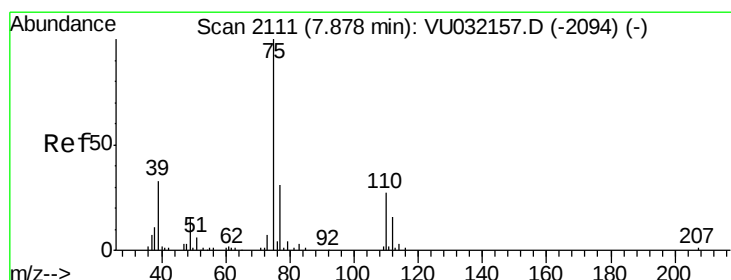
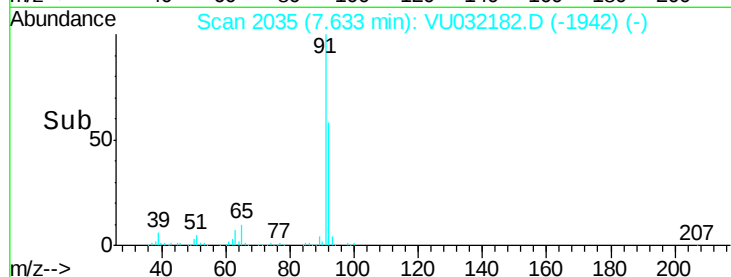
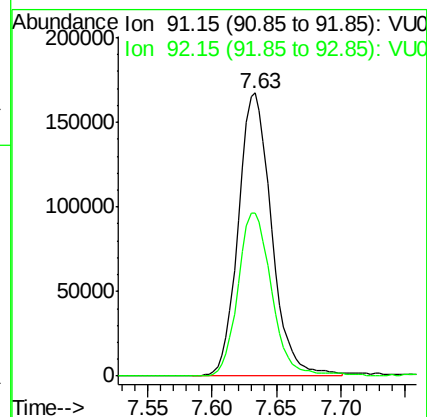
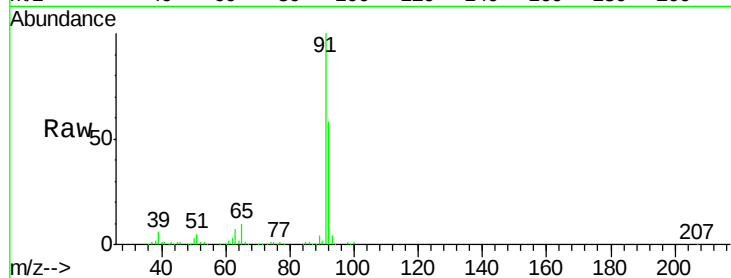
ClientSampleId :

Tot Ion: 91 Resp: 300855

Ion Ratio Lower Upper

91 100

92 57.8 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 4.810 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU032182.D

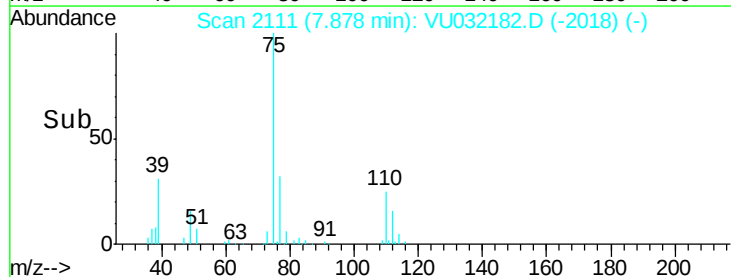
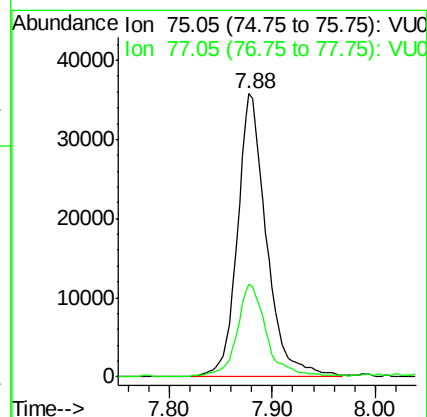
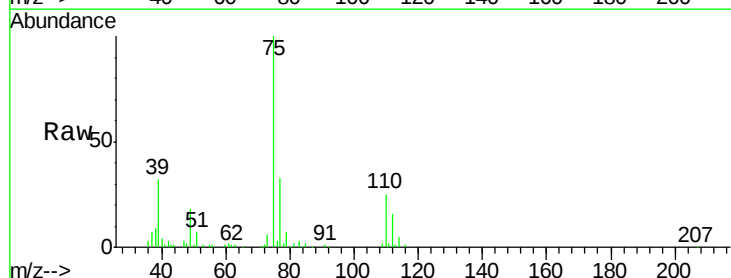
Acq: 21 May 2019 02:56

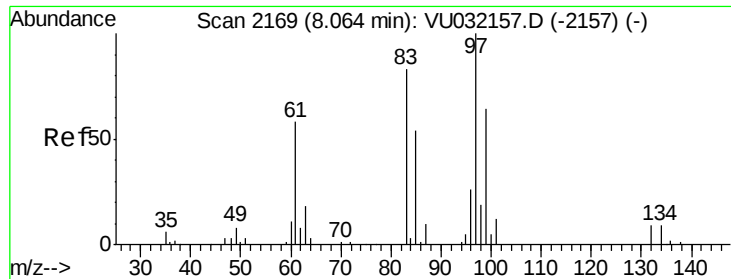
Tgt Ion: 75 Resp: 70210

Ion Ratio Lower Upper

75 100

77 32.7 21.0 39.0

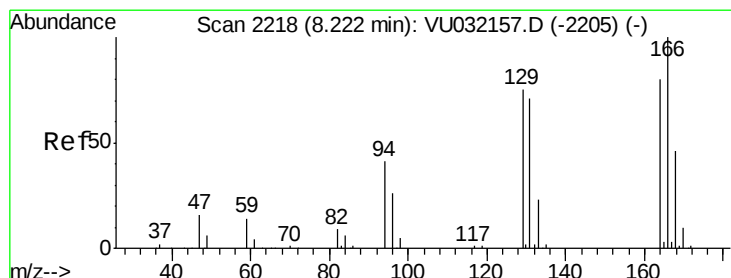
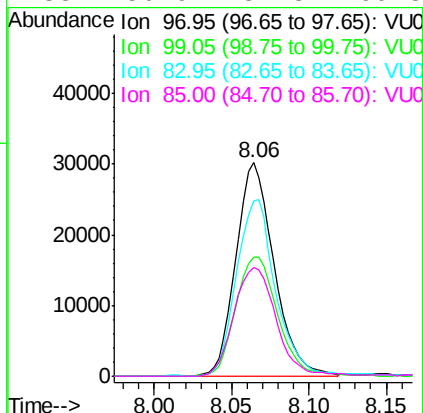
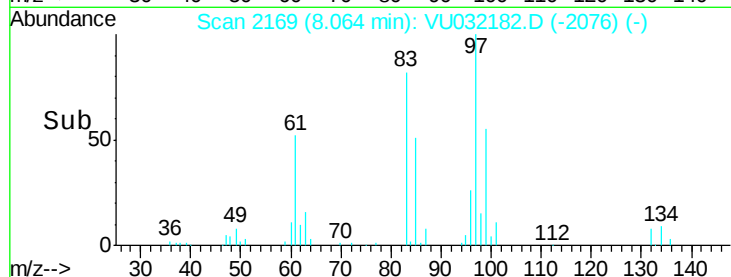
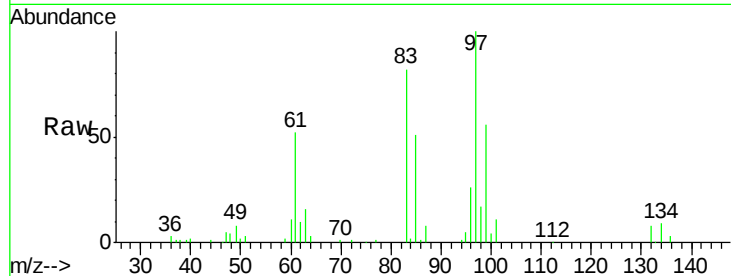




#45
 1,1,2-Trichloroethane
 Concen: 5.162 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

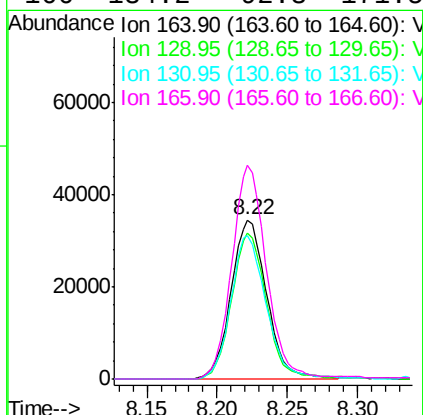
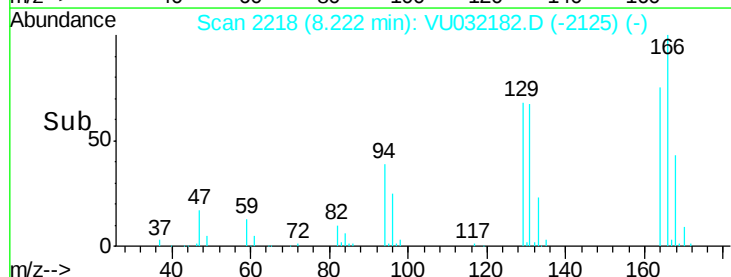
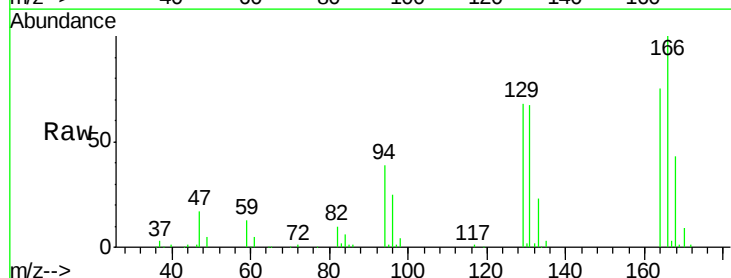
Instrument :
 MSVOA_U
 ClientSampleId :

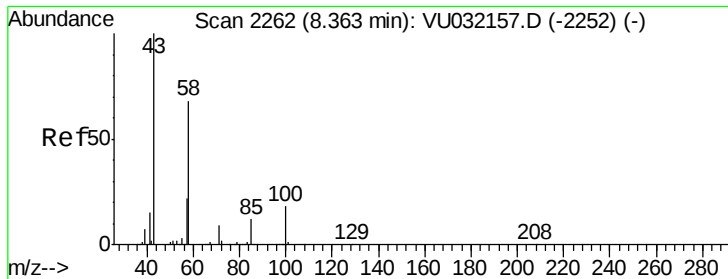
Tot Ion:	97	Resp:	51778
Ion	Ratio	Lower	Upper
97	100		
99	55.8	40.7	75.7
83	82.0	59.6	110.8
85	50.9	37.3	69.3



#47
 Tetrachloroethene
 Concen: 5.431 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

Tgt Ion:	164	Resp:	61154
Ion	Ratio	Lower	Upper
164	100		
129	91.6	70.3	130.5
131	90.4	64.5	119.9
166	134.2	92.3	171.5

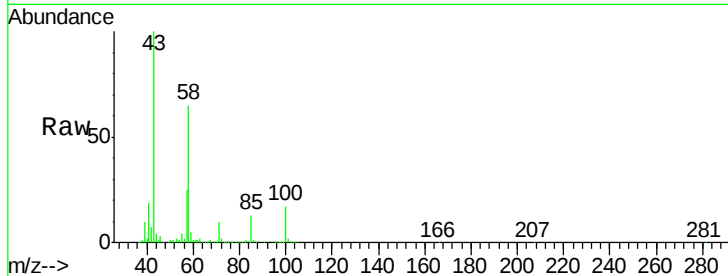




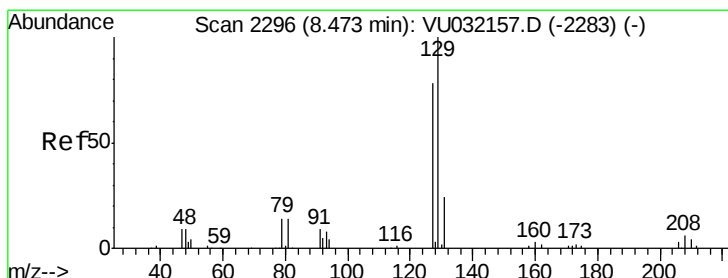
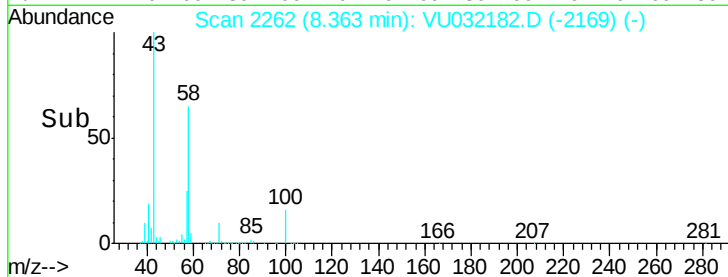
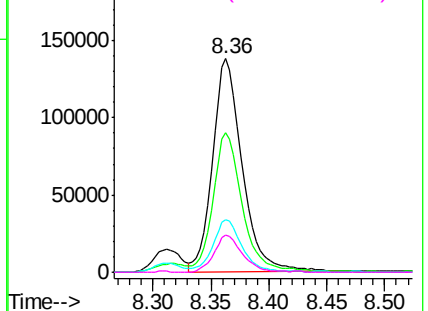
#48
2-Hexanone
Concen: 50.353 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 245832
Ion Ratio Lower Upper
43 100
58 64.8 51.6 77.4
57 24.1 18.4 27.6
100 16.4 12.2 18.4

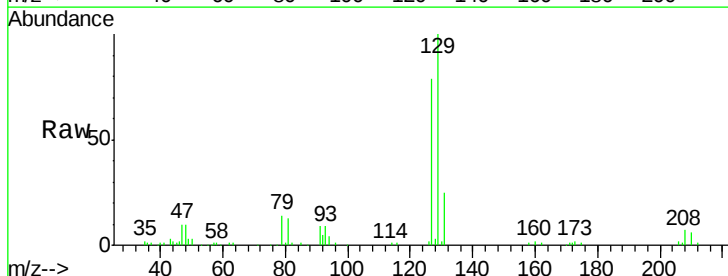


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

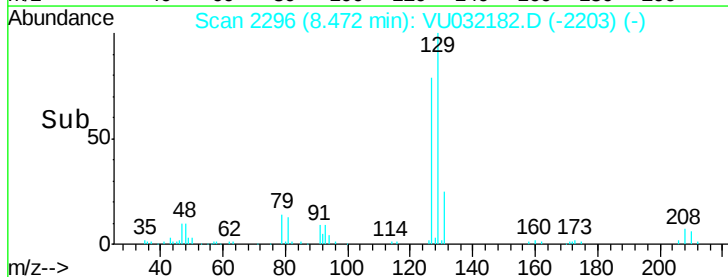
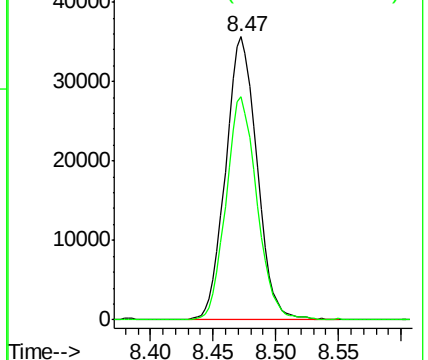


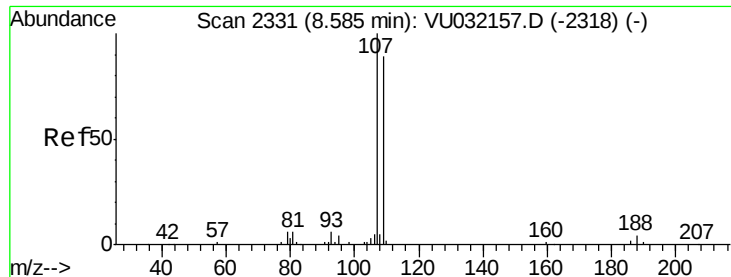
#49
Dibromochloromethane
Concen: 5.369 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Tgt Ion: 129 Resp: 62066
Ion Ratio Lower Upper
129 100
127 78.9 55.2 102.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

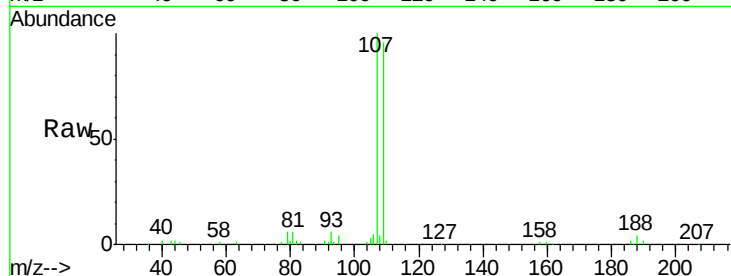




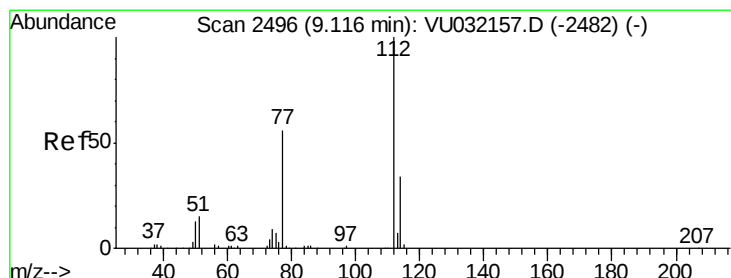
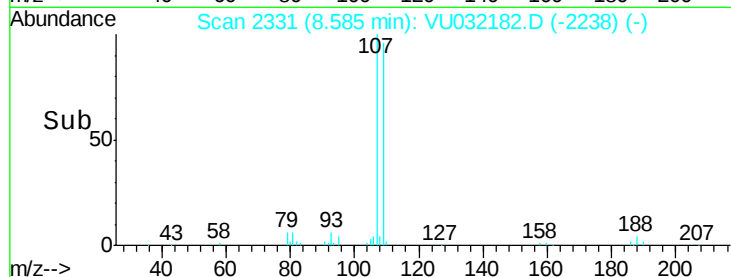
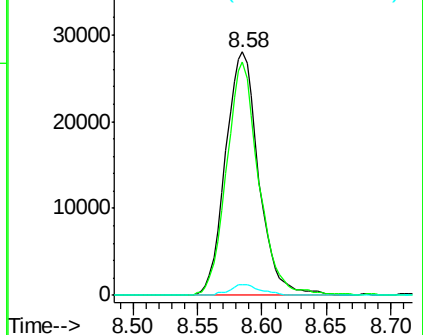
#50
1,2-Dibromoethane
Concen: 5.197 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:107 Resp: 49952
Ion Ratio Lower Upper
107 100
109 95.8 67.8 125.8
188 4.5 3.5 5.3

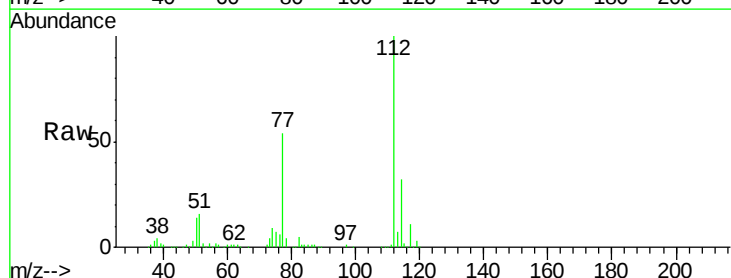


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

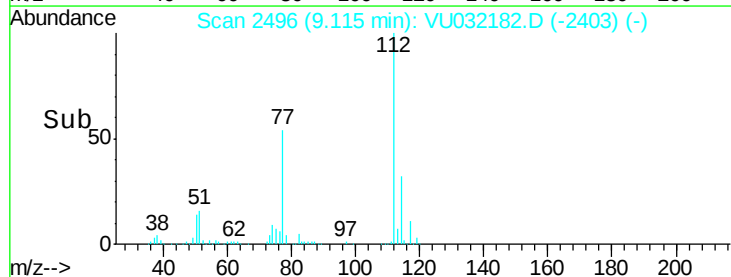
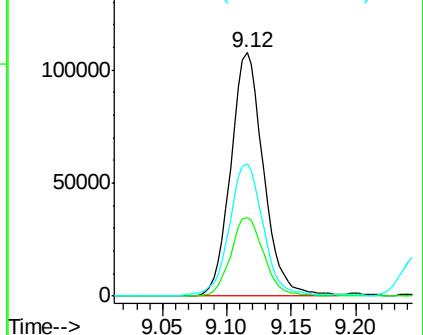


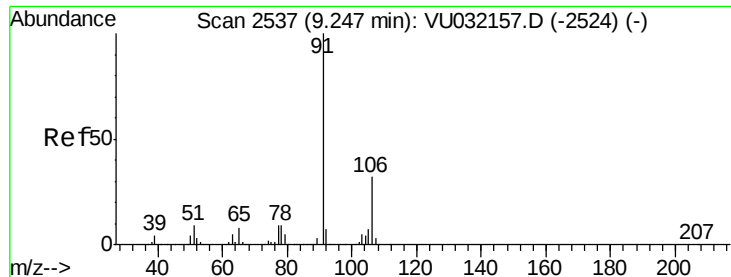
#51
Chlorobenzene
Concen: 5.188 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Tgt Ion:112 Resp: 190589
Ion Ratio Lower Upper
112 100
114 32.4 21.6 40.2
77 54.3 50.3 75.5



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





#52

Ethylbenzene

Concen: 4.994 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

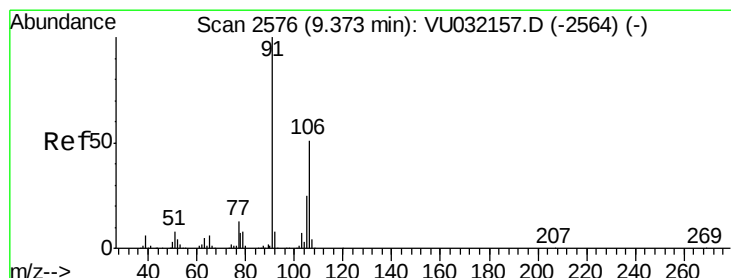
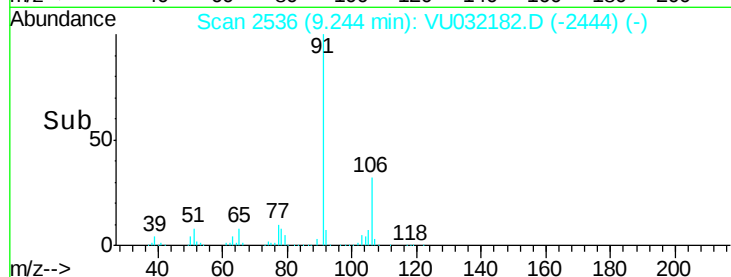
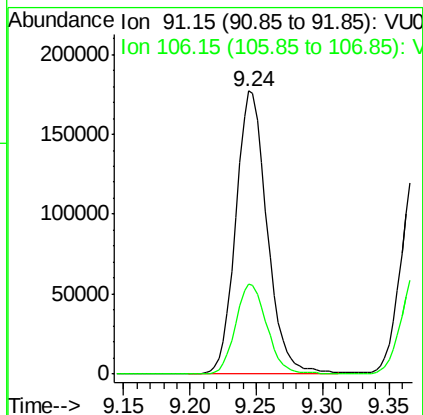
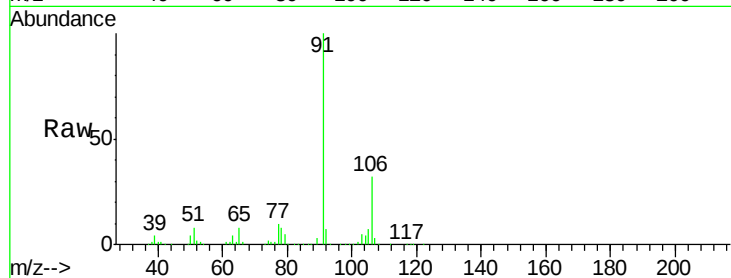
ClientSampleId :

Tot Ion: 91 Resp: 291362

Ion Ratio Lower Upper

91 100

106 32.0 21.3 39.6



#53

m,p-Xylene

Concen: 4.987 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU032182.D

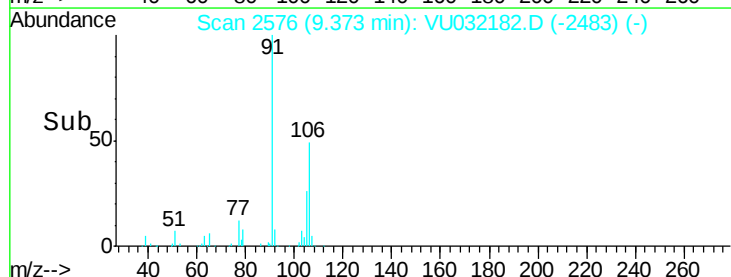
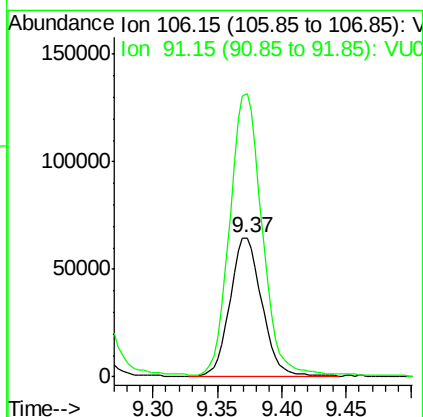
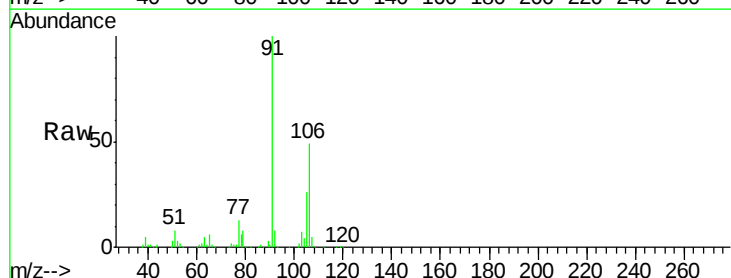
Acq: 21 May 2019 02:56

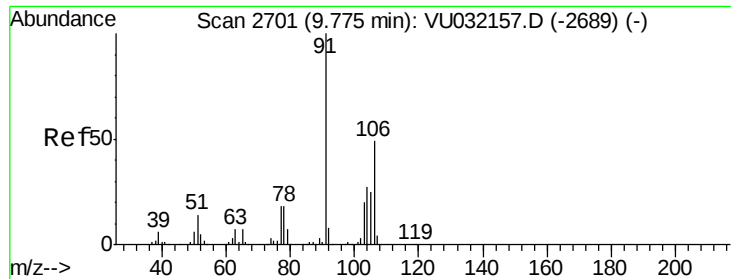
Tgt Ion: 106 Resp: 110529

Ion Ratio Lower Upper

106 100

91 203.2 143.1 265.9

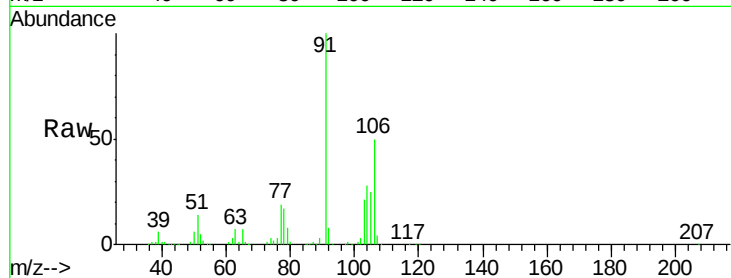




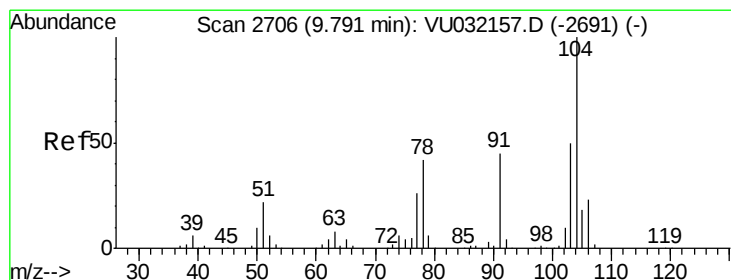
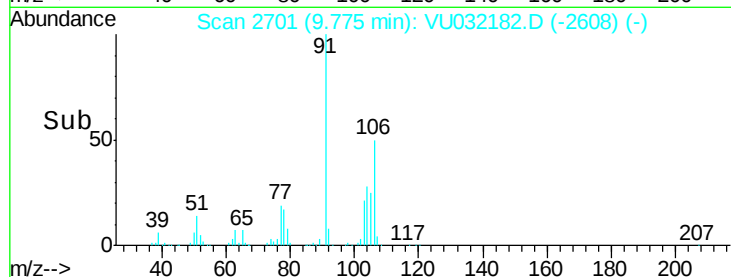
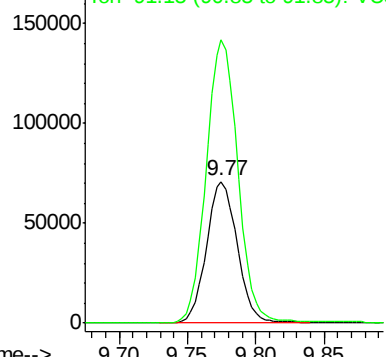
#54
o-Xylene
Concen: 5.232 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 111778
Ion Ratio Lower Upper
106 100
91 199.5 152.9 283.9

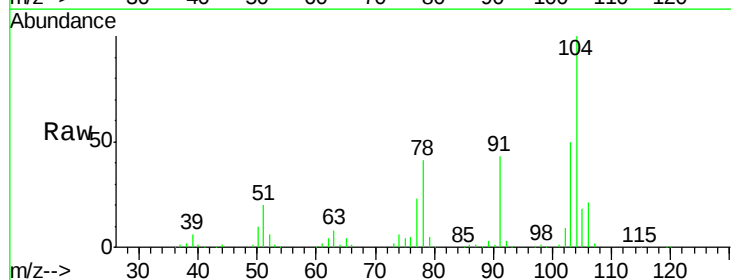


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

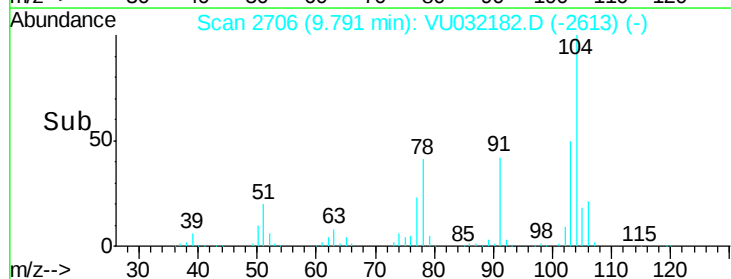
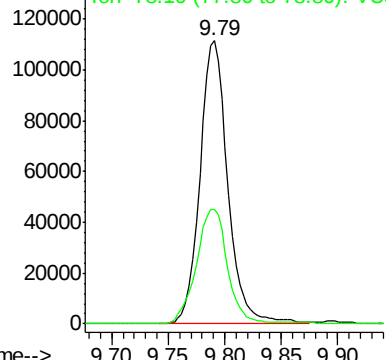


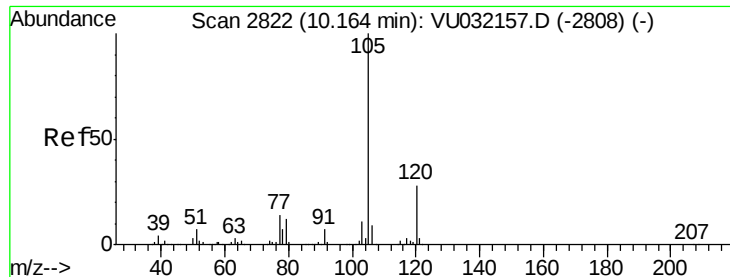
#55
Styrene
Concen: 5.289 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VU032182.D
Acq: 21 May 2019 02:56

Tgt Ion:104 Resp: 191576
Ion Ratio Lower Upper
104 100
78 40.6 31.2 58.0



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.153 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

ClientSampleId :

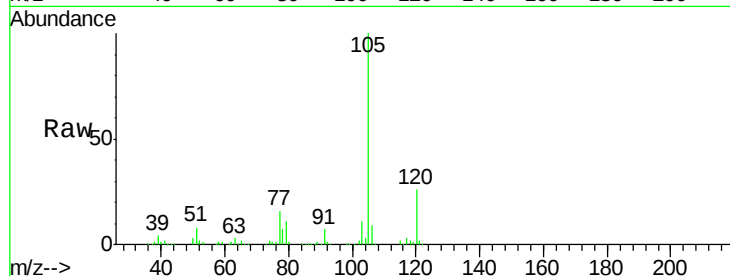
Tot Ion:105 Resp: 281339

Ion Ratio Lower Upper

105 100

120 26.1 20.7 31.1

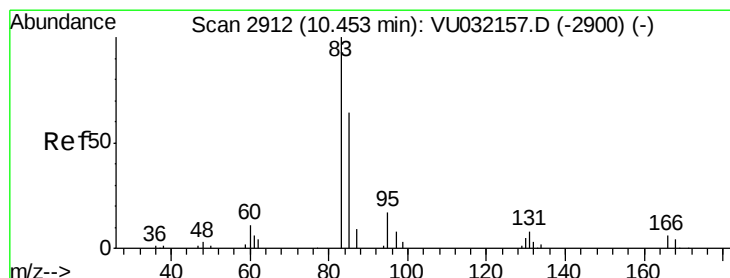
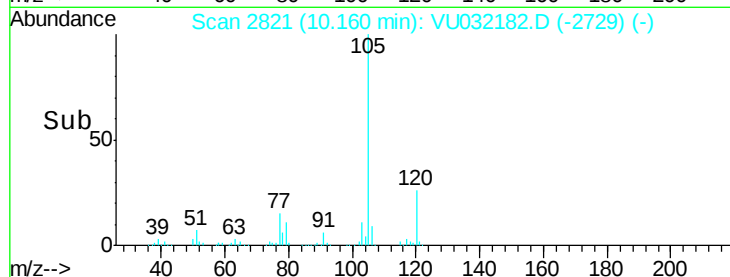
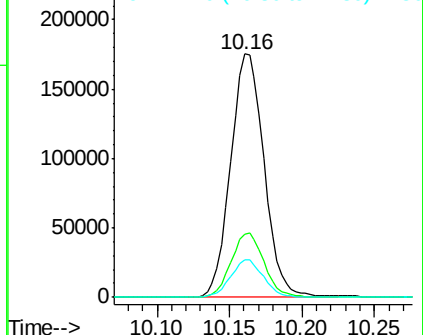
77 15.3 12.3 18.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.073 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

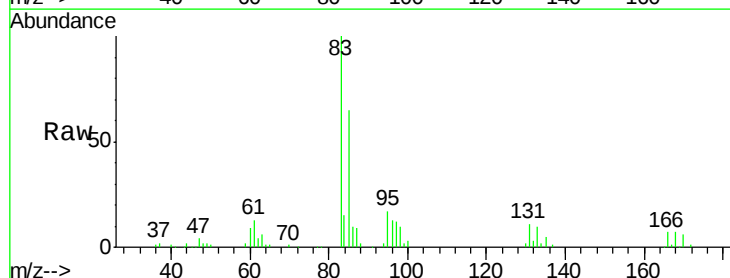
Tgt Ion: 83 Resp: 63483

Ion Ratio Lower Upper

83 100

85 65.4 44.3 82.3

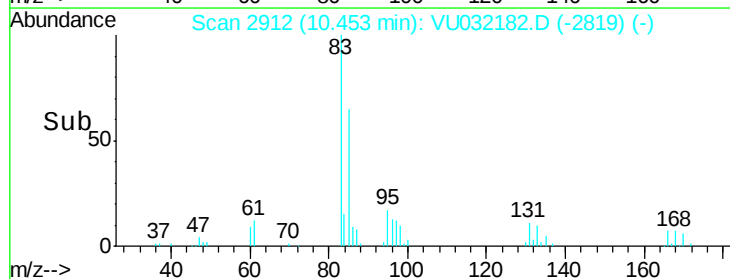
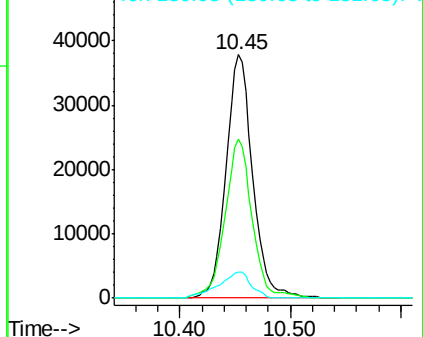
131 10.9 7.4 11.2

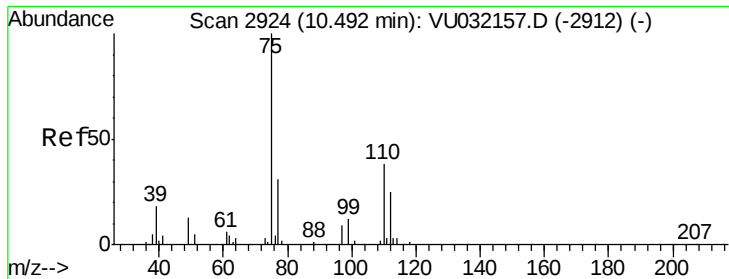


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

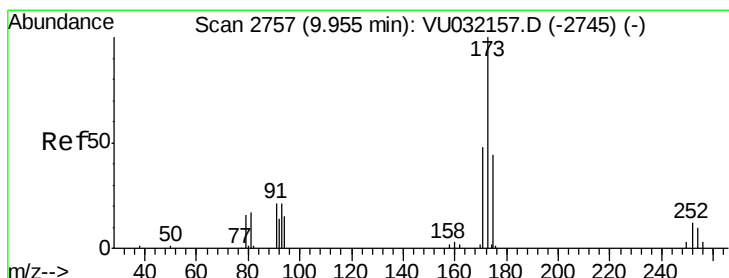
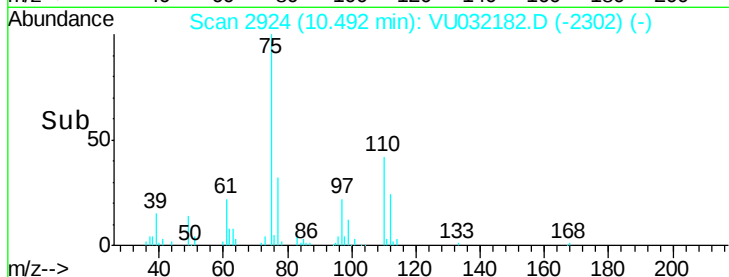
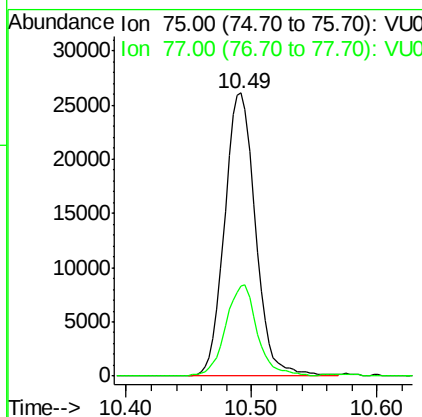
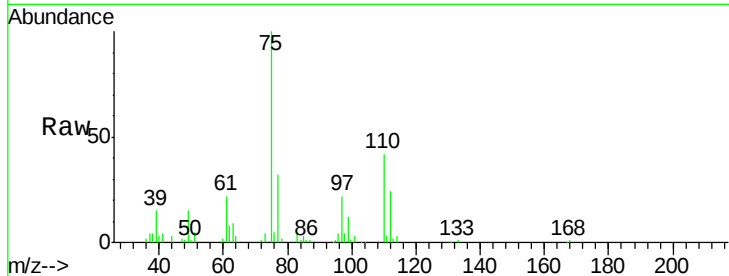




#59
 1,2,3-Trichloropropane
 Concen: 5.181 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

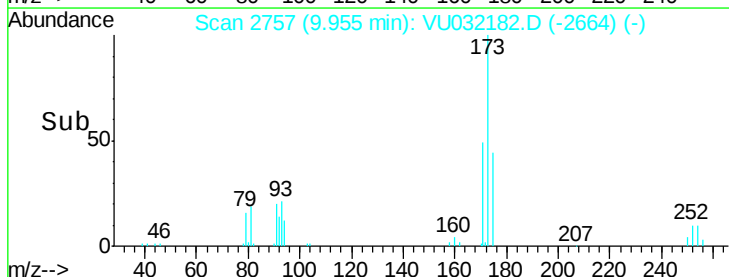
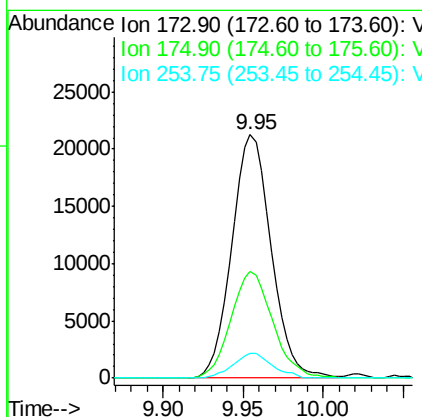
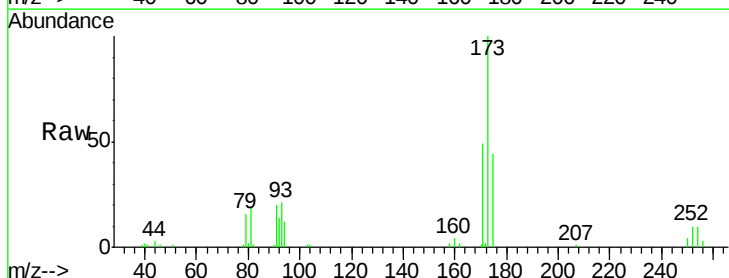
Instrument :
 MSVOA_U
 ClientSampled :

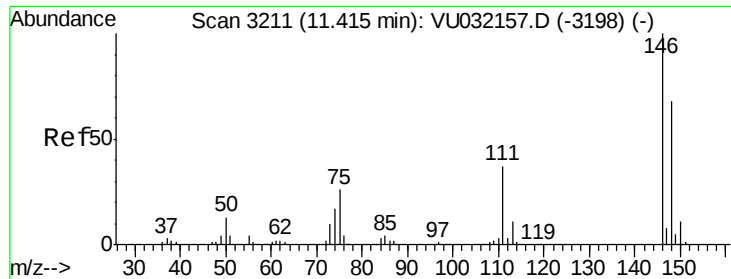
Tot Ion: 75 Resp: 44677
 Ion Ratio Lower Upper
 75 100
 77 32.9 26.2 39.2



#61
 Bromoform
 Concen: 5.506 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

Tgt Ion: 173 Resp: 35684
 Ion Ratio Lower Upper
 173 100
 175 46.5 38.0 57.0
 254 10.1 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.245 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

ClientSampled :

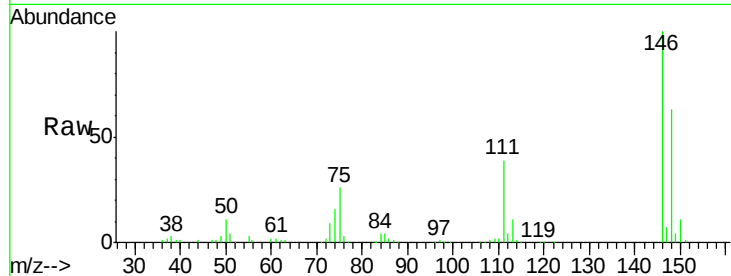
Tot Ion:146 Resp: 141131

Ion Ratio Lower Upper

146 100

111 38.5 27.7 51.5

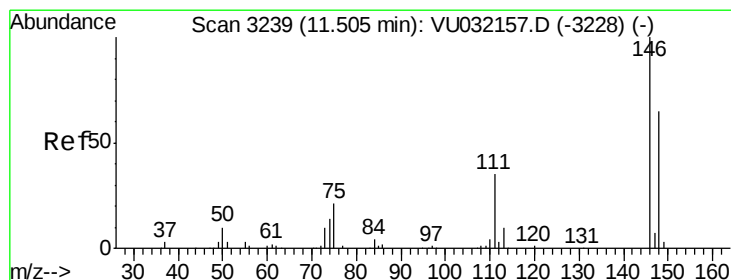
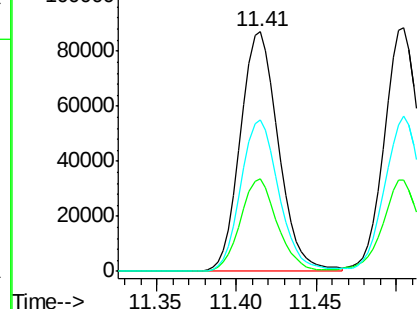
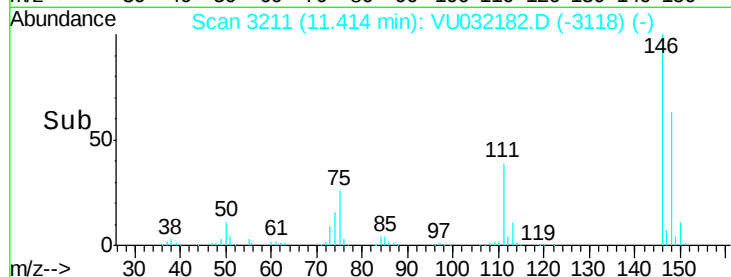
148 63.2 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.110 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

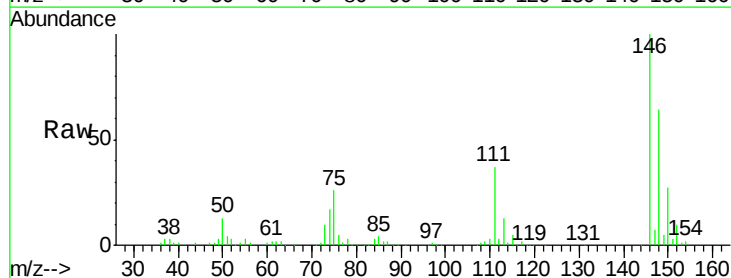
Tgt Ion:146 Resp: 143114

Ion Ratio Lower Upper

146 100

111 37.3 27.1 50.3

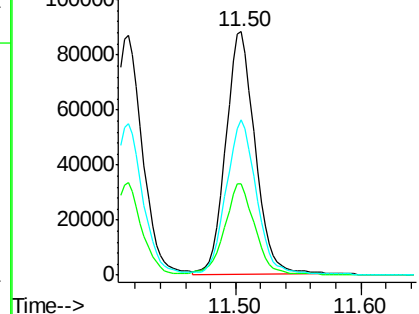
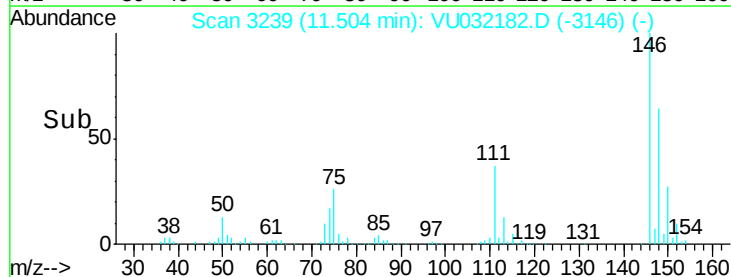
148 63.6 45.4 84.4

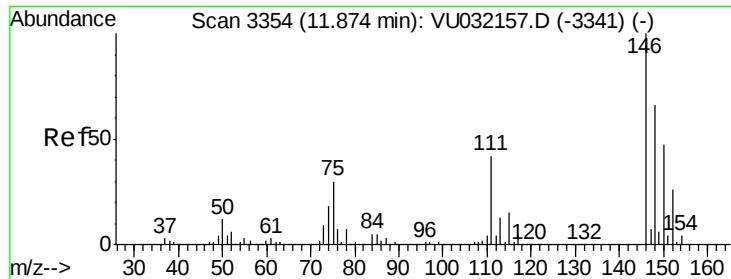


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.378 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

ClientSampled :

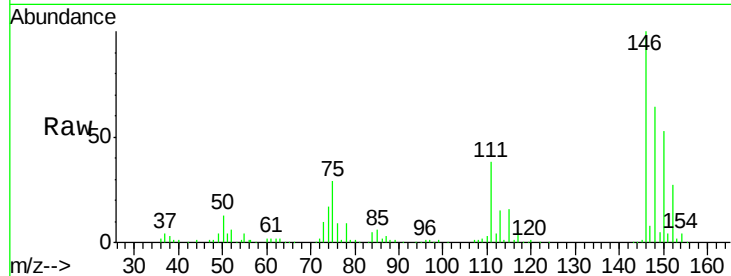
Tot Ion:146 Resp: 146835

Ion Ratio Lower Upper

146 100

111 37.6 33.5 50.3

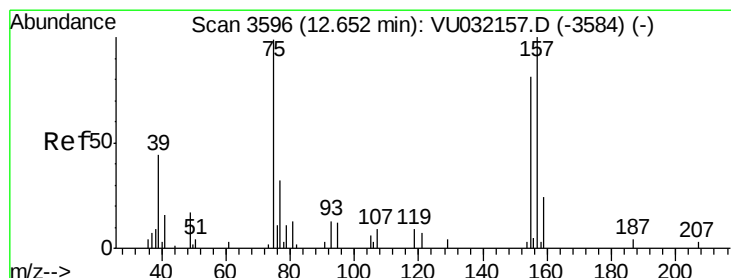
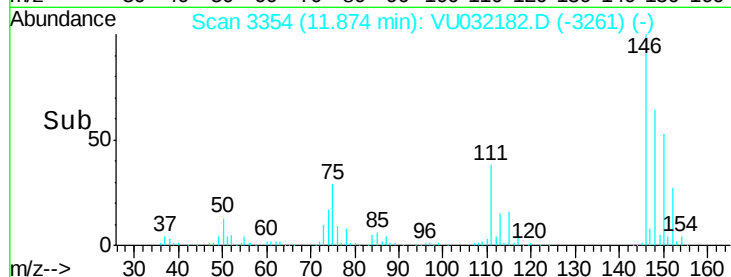
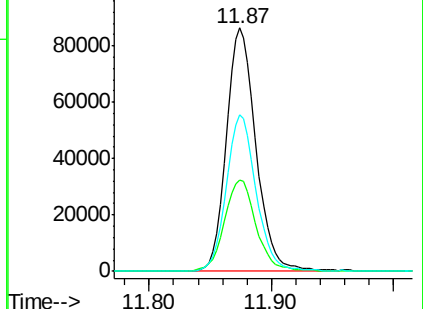
148 64.2 50.2 75.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.381 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

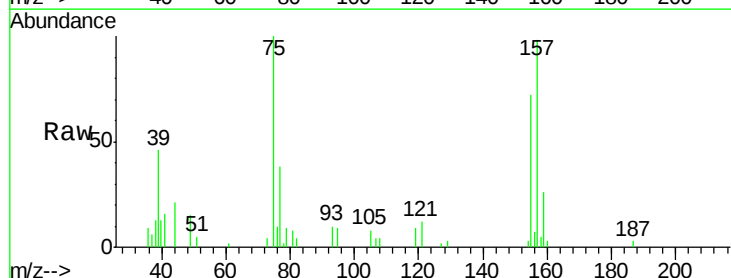
Tgt Ion: 75 Resp: 9586

Ion Ratio Lower Upper

75 100

155 72.4 65.0 97.6

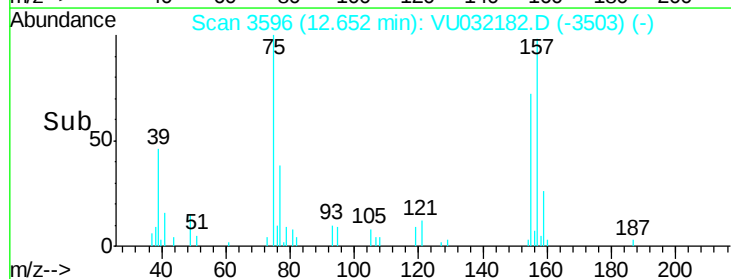
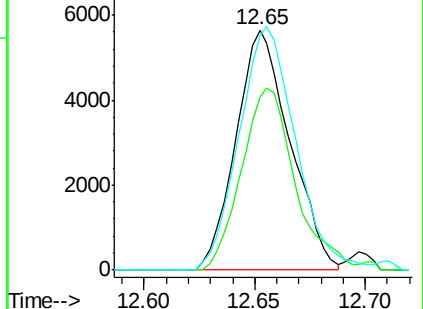
157 98.0 84.3 126.5

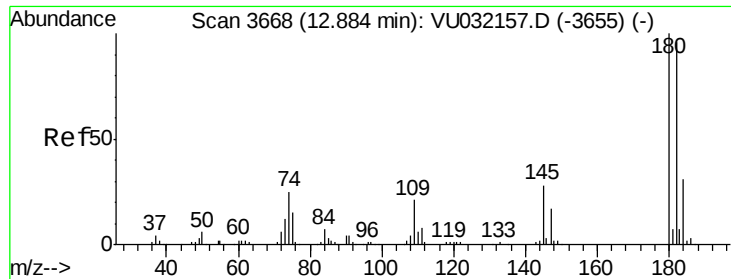


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

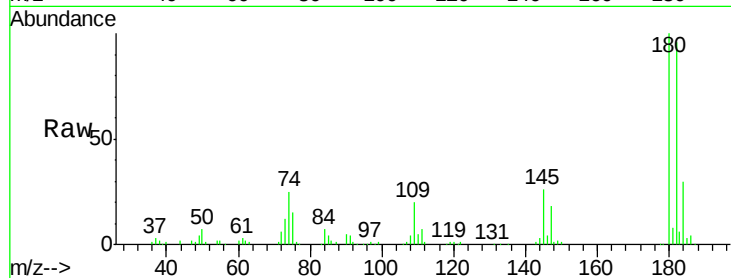




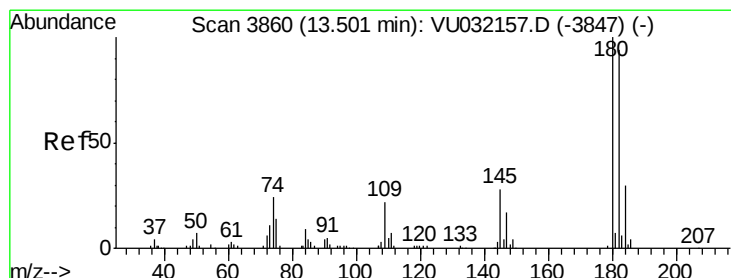
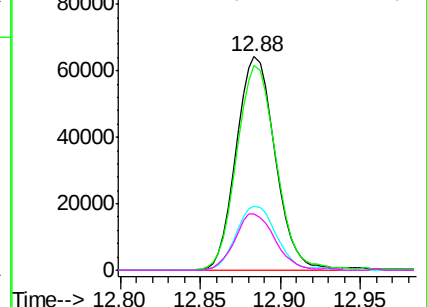
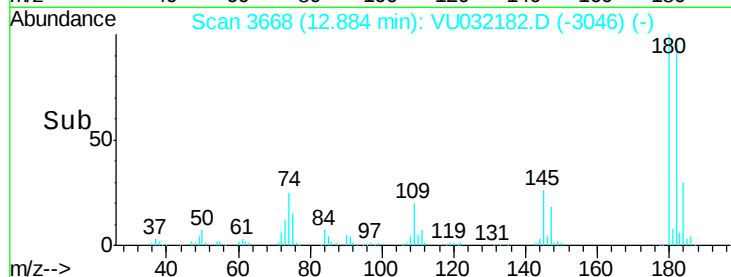
#67
 1,3,5-Trichlorobenzene
 Concen: 5.318 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	106517
Ion Ratio	Lower	Upper
180	100	
182	97.2	77.3 115.9
184	31.2	24.5 36.7
145	27.1	23.2 34.8

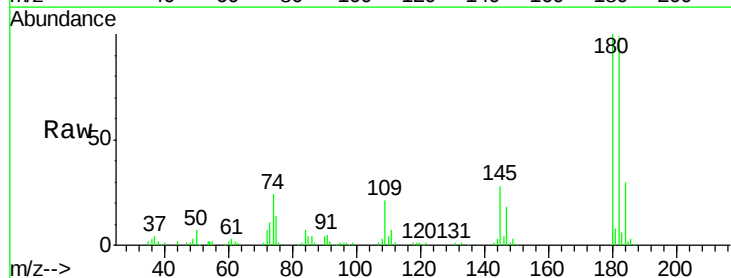


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

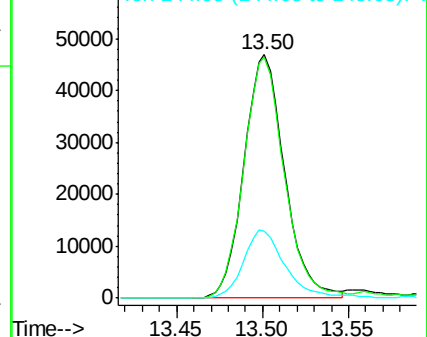
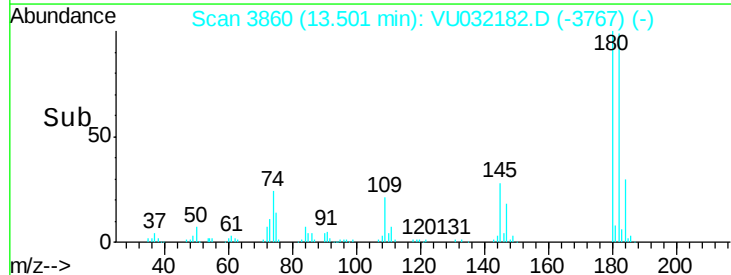


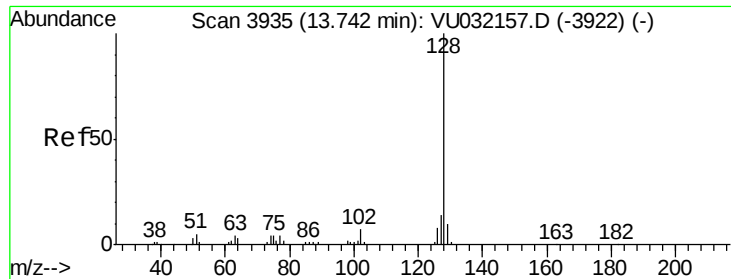
#68
 1,2,4-trichlorobenzene
 Concen: 5.560 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU032182.D
 Acq: 21 May 2019 02:56

Tgt Ion:180	Resp:	76984
Ion Ratio	Lower	Upper
180	100	
182	98.6	78.4 117.6
145	28.9	23.5 35.3



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.031 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. -0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

Instrument :

MSVOA_U

ClientSampleId :

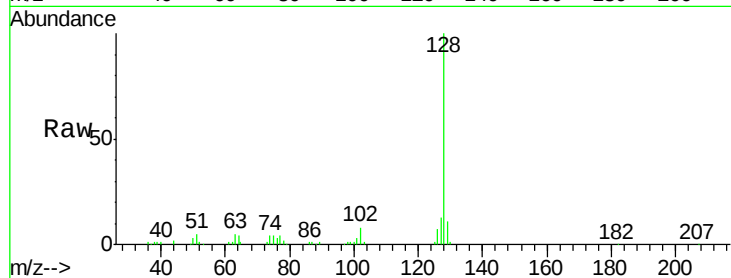
Tot Ion:128 Resp: 108351

Ion Ratio Lower Upper

128 100

129 11.2 8.0 12.0

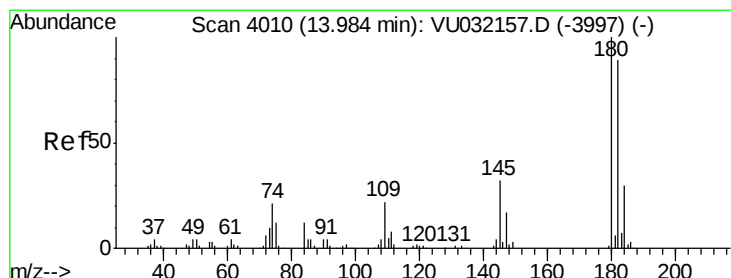
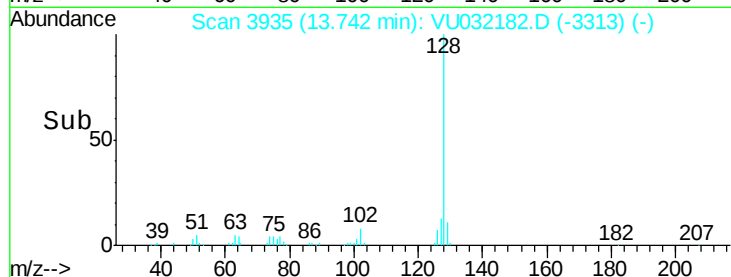
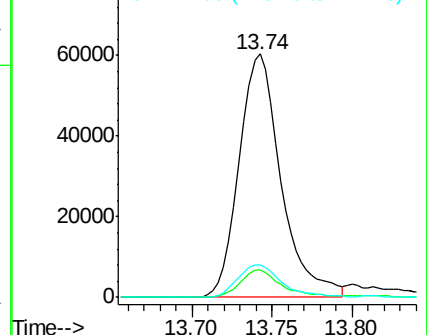
127 14.0 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.852 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU032182.D

Acq: 21 May 2019 02:56

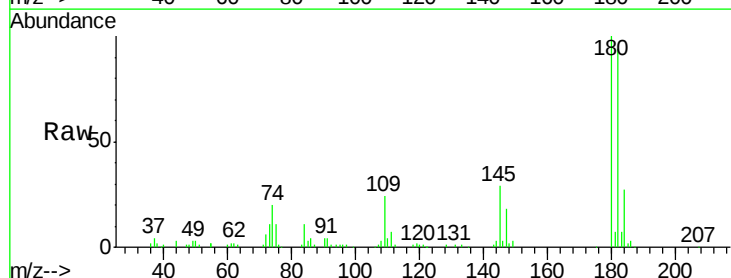
Tgt Ion:180 Resp: 82243

Ion Ratio Lower Upper

180 100

182 95.3 75.3 112.9

145 29.0 25.2 37.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

