

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091819\
 Data File : VU034621.D
 Acq On : 17 Sep 2019 17:38
 Operator : JC/SP
 Sample : VSTD01006
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 17 18:05:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091819WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 17 17:59:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	115710	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	109111	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	49036	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	95813	11.66	ug/L	0.00
7) Chloroethane-d5	1.67	69	75826	11.99	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	169540	12.45	ug/L	0.00
20) 2-Butanone-d5	4.17	46	239956	93.43	ug/L	0.00
24) Chloroform-d	4.62	84	141527	9.55	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	80189	9.80	ug/L	0.00
32) Benzene-d6	5.31	84	304362	10.28	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	101639	10.02	ug/L	0.00
41) Toluene-d8	7.54	98	287518	10.32	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	42487	9.67	ug/L	0.00
46) 2-Hexanone-d5	8.29	63	190572	90.86	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	79520	9.25	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	85214	9.87	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	90444	14.008	ug/L 98
3) Chloromethane	1.32	50	84699	10.615	ug/L 97
5) Vinyl chloride	1.40	62	88652	11.920	ug/L 99
6) Bromomethane	1.62	94	42215	11.125	ug/L 95
8) Chloroethane	1.69	64	51921	11.943	ug/L 100
9) Trichlorofluoromethane	1.87	101	120894	13.322	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	67186	13.575	ug/L 99
12) 1,1-Dichloroethene	2.27	96	58279	11.876	ug/L 91
13) Acetone	2.32	43	168659	99.279	ug/L 99
14) Carbon disulfide	2.46	76	150937	11.960	ug/L 100
15) Methyl Acetate	2.60	43	42761	9.697	ug/L 95
16) Methylene chloride	2.68	84	71284	10.445	ug/L 95
17) Methyl tert-butyl Ether	2.98	73	202693	10.591	ug/L 100
18) trans-1,2-Dichloroethene	2.96	96	60219	11.082	ug/L 99
19) 1,1-Dichloroethane	3.42	63	149566	10.707	ug/L 96
21) 2-Butanone	4.26	43	283950	106.284	ug/L 96
22) cis-1,2-Dichloroethene	4.20	96	82159	10.141	ug/L 99
23) Bromochloromethane	4.52	128	30790	9.291	ug/L 97
25) Chloroform	4.65	83	161179	10.594	ug/L 93
27) 1,2-Dichloroethane	5.38	62	97561	11.017	ug/L 100
29) 1,1,1-Trichloroethane	4.89	97	120511	11.015	ug/L 98
30) Cyclohexane	4.96	56	126259	13.537	ug/L 99
31) Carbon tetrachloride	5.11	117	99842	11.566	ug/L 97
33) Benzene	5.36	78	316233	10.821	ug/L 100
34) Trichloroethene	6.16	95	79292	10.845	ug/L 97
35) Methylcyclohexane	6.39	83	123550	12.941	ug/L 98
37) 1,2-Dichloropropane	6.41	63	95036	11.011	ug/L 99
38) Bromodichloromethane	6.73	83	116429	10.786	ug/L 99
39) cis-1,3-Dichloropropene	7.25	75	137637	10.723	ug/L 97
40) 4-Methyl-2-pentanone	7.44	43	736147	104.649	ug/L 100

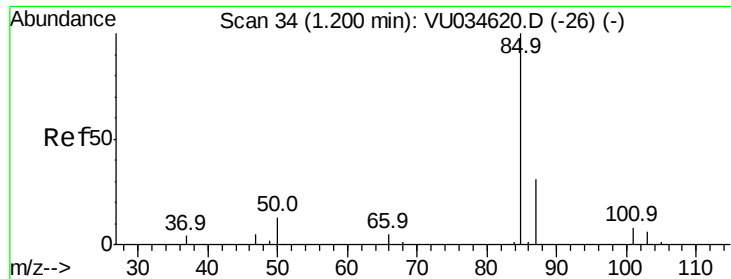
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091819\
 Data File : VU034621.D
 Acq On : 17 Sep 2019 17:38
 Operator : JC/SP
 Sample : VSTD01006
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 17 18:05:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091819WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 17 17:59:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	340290	10.971	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	111697	10.481	ug/L	100
45) 1,1,2-Trichloroethane	8.04	97	60756	10.018	ug/L	98
47) Tetrachloroethene	8.21	164	47153	10.568	ug/L	99
48) 2-Hexanone	8.34	43	505059	106.172	ug/L	99
49) Dibromochloromethane	8.46	129	71337	9.777	ug/L	100
50) 1,2-Dibromoethane	8.57	107	55087	9.647	ug/L	97
51) Chlorobenzene	9.10	112	208063	10.375	ug/L	98
52) Ethylbenzene	9.23	91	384847	10.908	ug/L	100
53) m,p-Xylene	9.35	106	136204	10.592	ug/L	94
54) o-Xylene	9.76	106	140790	10.697	ug/L	98
55) Styrene	9.77	104	239038	10.682	ug/L	99
56) Isopropylbenzene	10.14	105	379695	11.075	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.43	83	88897	9.951	ug/L	98
59) 1,2,3-Trichloropropane	10.47	75	60094	9.850	ug/L	100
61) Bromoform	9.94	173	34730	9.281	ug/L	98
62) 1,3-Dichlorobenzene	11.39	146	151559	10.339	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	152617	10.437	ug/L	97
65) 1,2-Dichlorobenzene	11.85	146	150409	10.761	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.63	75	14753	10.564	ug/L	92
67) 1,3,5-Trichlorobenzene	12.86	180	102566	10.434	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	88816	11.273	ug/L	97
69) Naphthalene	13.72	128	207541	11.888	ug/L	98
70) 1,2,3-Trichlorobenzene	13.97	180	83652	11.073	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 14.008 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

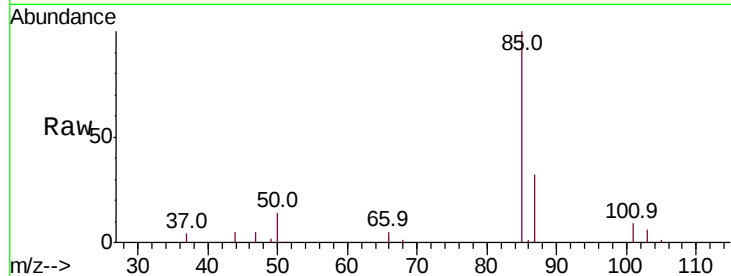
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 90444

Ion Ratio Lower Upper

85 100

87 32.4 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU034620.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034620.D (-26) (-)

1.20

80000

60000

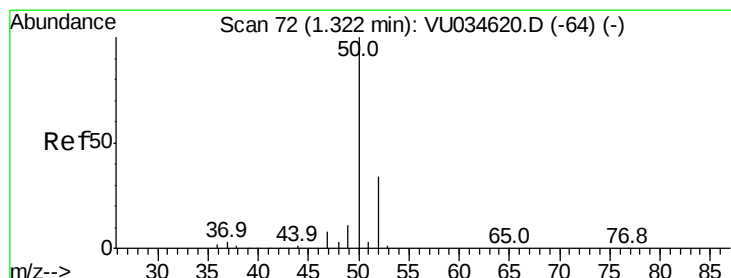
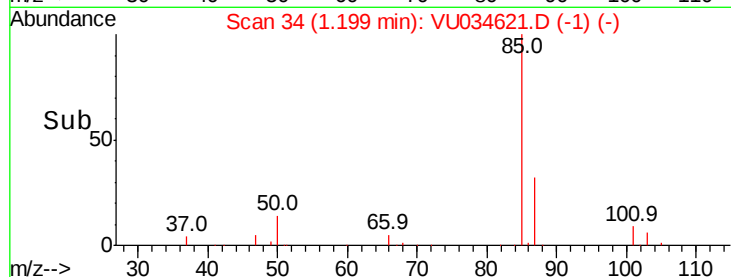
40000

20000

0

1.15 1.20 1.25 1.30

Time-->



#3

Chloromethane

Concen: 10.615 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034621.D

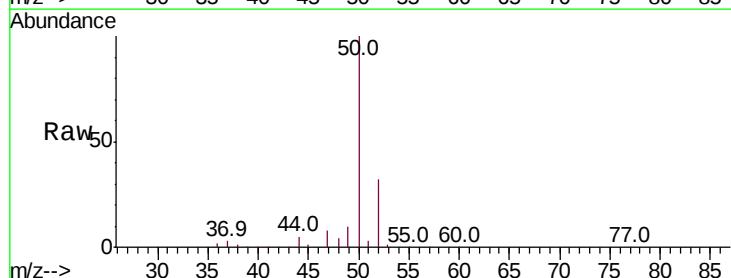
Acq: 17 Sep 2019 17:38

Tgt Ion: 50 Resp: 84699

Ion Ratio Lower Upper

50 100

52 32.5 23.9 44.3



Abundance Ion 50.05 (49.75 to 50.75): VU034620.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU034620.D (-64) (-)

1.32

80000

60000

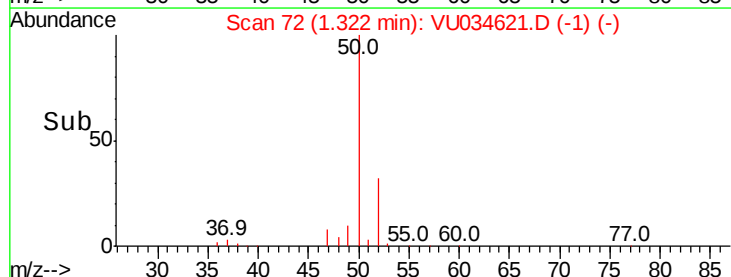
40000

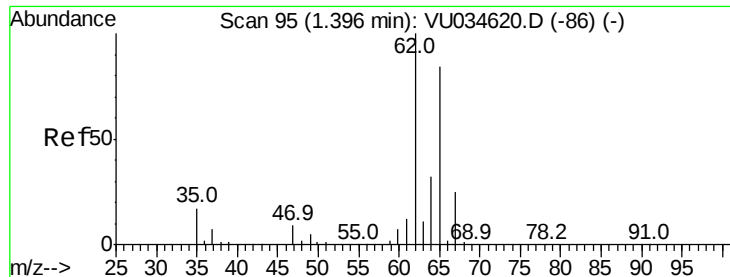
20000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 11.920 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

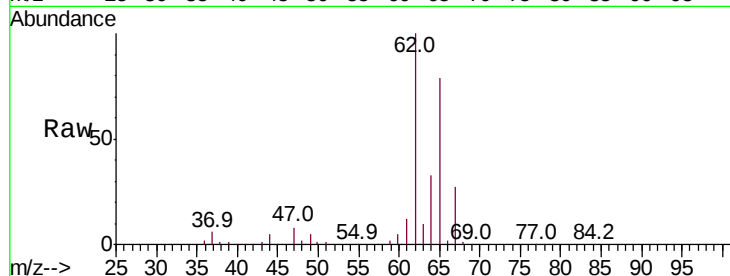
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 88652

Ion Ratio Lower Upper

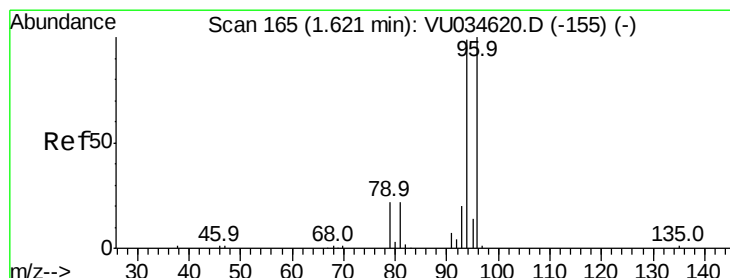
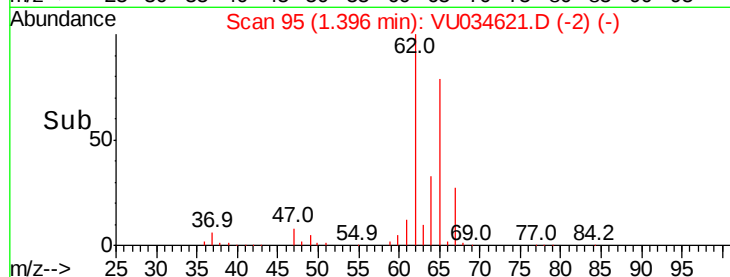
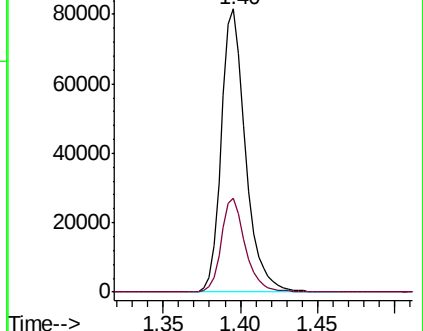
62 100

64 33.0 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU034621.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU034621.D (-86) (-)



#6

Bromomethane

Concen: 11.125 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU034621.D

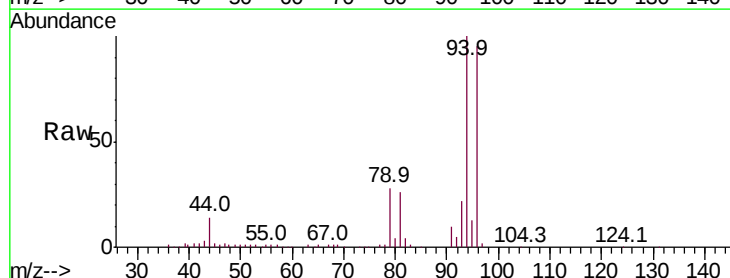
Acq: 17 Sep 2019 17:38

Tgt Ion: 94 Resp: 42215

Ion Ratio Lower Upper

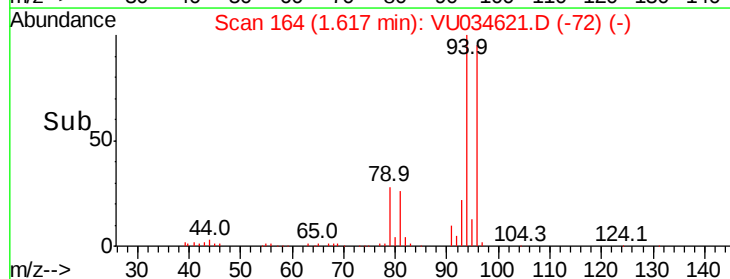
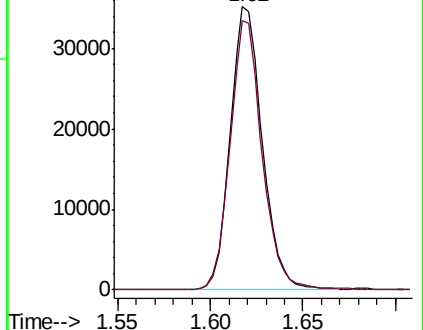
94 100

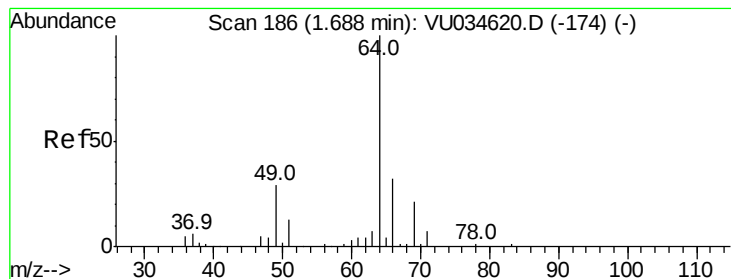
96 95.3 70.4 130.8



Abundance Ion 94.00 (93.70 to 94.70): VU034621.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU034621.D (-155) (-)





#8

Chloroethane

Concen: 11.943 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

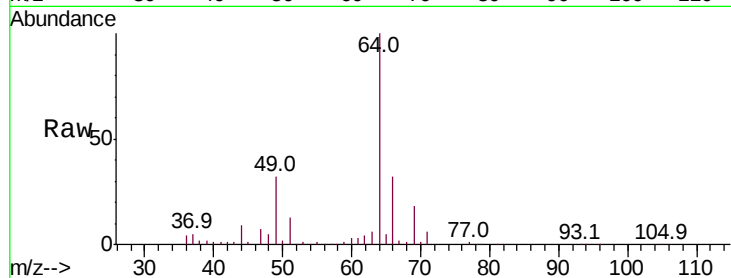
ClientSampleId :

Tot Ion: 64 Resp: 51921

Ion Ratio Lower Upper

64 100

66 32.3 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU034621.D (-174) (-)

Ion 66.05 (65.75 to 66.75): VU034621.D (-174) (-)

1.69

40000

30000

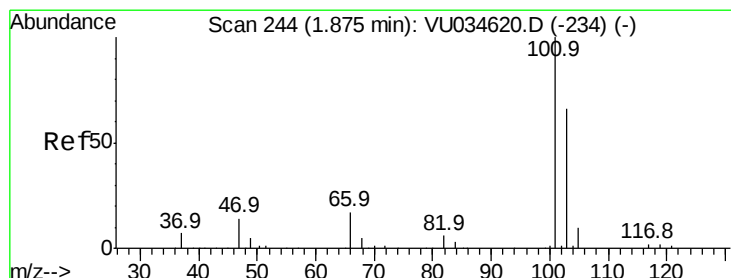
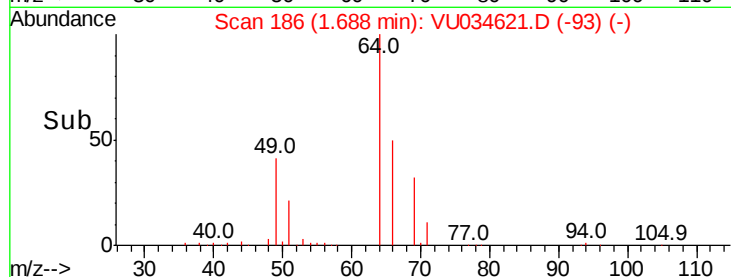
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 13.322 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034621.D

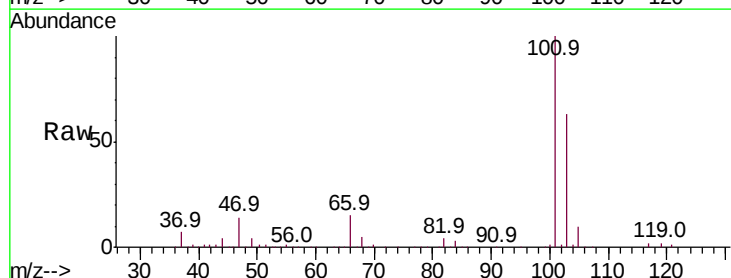
Acq: 17 Sep 2019 17:38

Tgt Ion:101 Resp: 120894

Ion Ratio Lower Upper

101 100

103 63.1 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): VU034621.D (-151) (-)

Ion 103.00 (102.70 to 103.70): VU034621.D (-151) (-)

1.87

100000

80000

60000

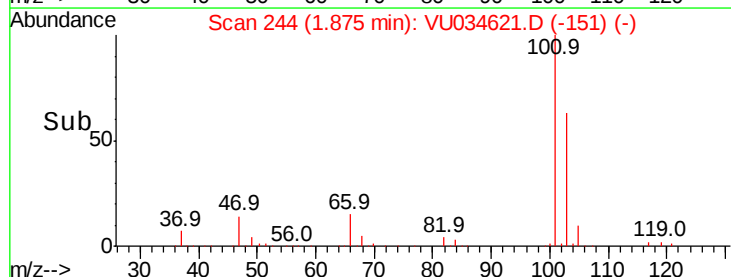
40000

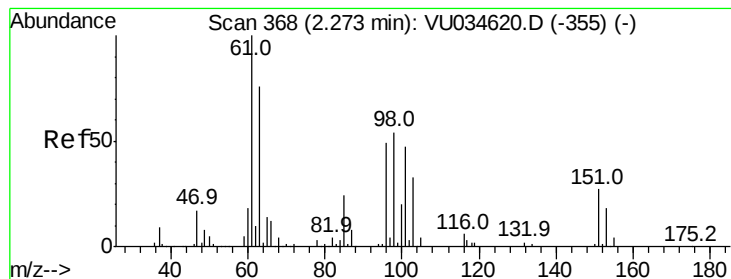
20000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 13.575 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

ClientSampled :

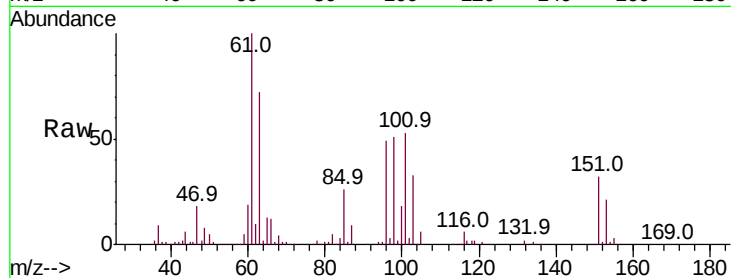
Tot Ion:101 Resp: 67186

Ion Ratio Lower Upper

101 100

85 51.7 41.9 62.9

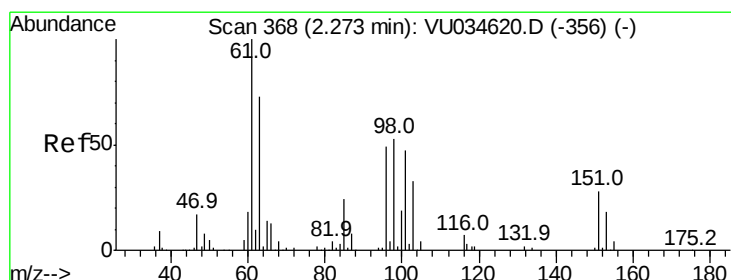
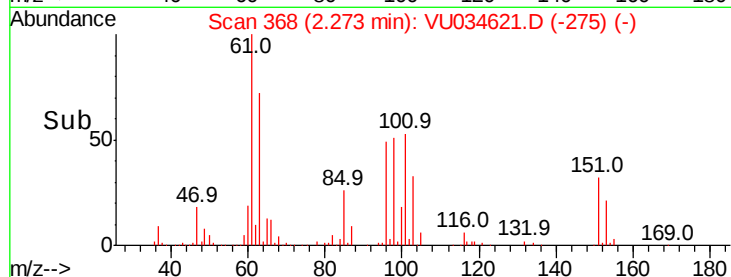
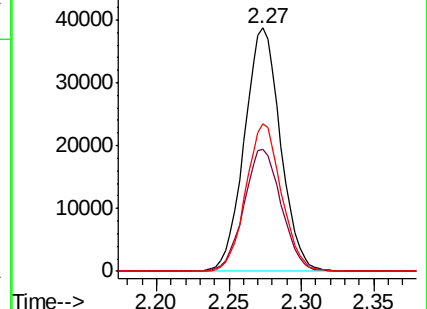
151 59.4 46.4 69.6



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: 11.876 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

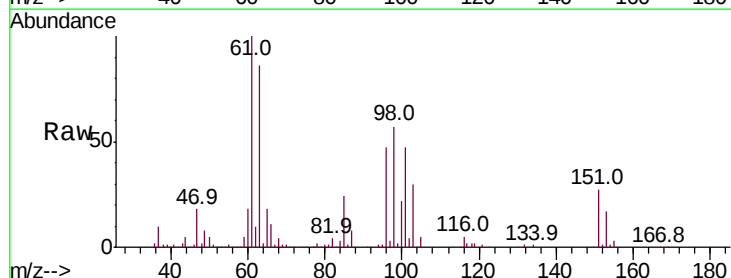
Tgt Ion: 96 Resp: 58279

Ion Ratio Lower Upper

96 100

61 210.8 144.4 268.2

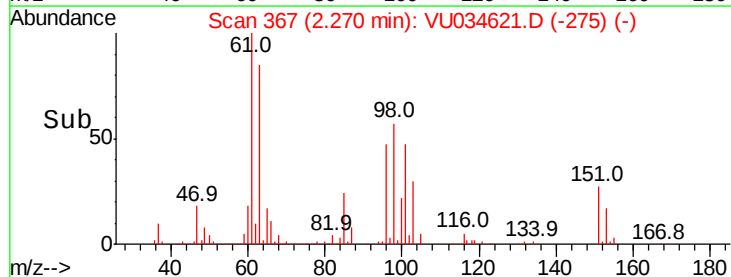
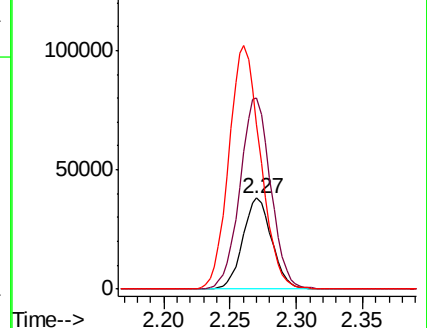
63 180.3 111.5 207.1

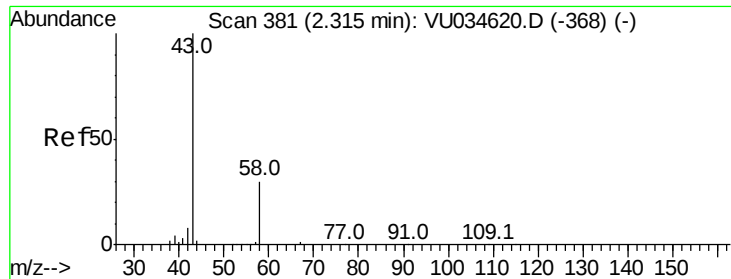


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 99.279 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

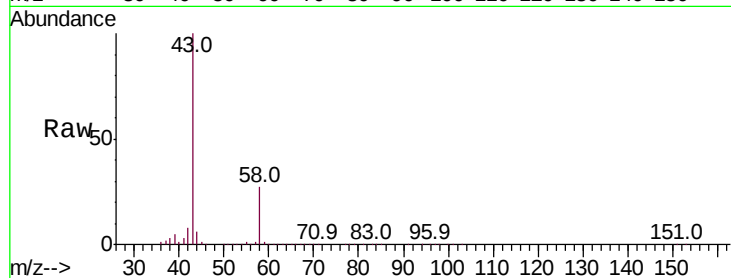
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 168659

Ion Ratio Lower Upper

43 100

58 29.3 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VU034621.D (-368) (-)

Ion 58.05 (57.75 to 58.75): VU034621.D (-368) (-)

2.32

100000

80000

60000

40000

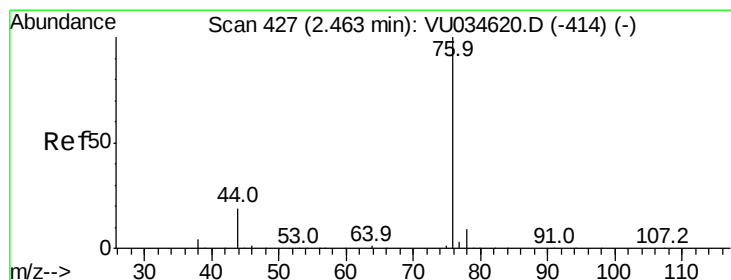
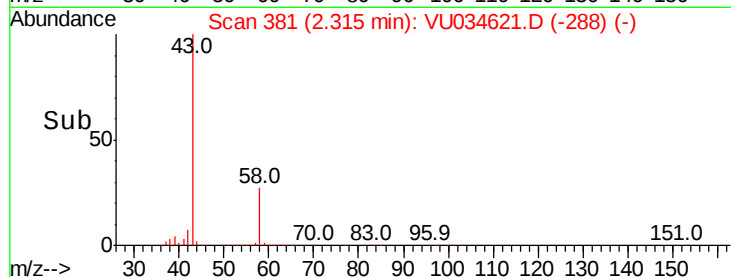
20000

0

Time-->

2.30

2.40



#14

Carbon disulfide

Concen: 11.960 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034621.D

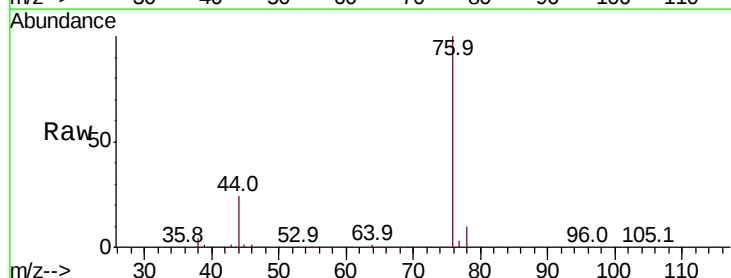
Acq: 17 Sep 2019 17:38

Tgt Ion: 76 Resp: 150937

Ion Ratio Lower Upper

76 100

78 9.6 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VU034621.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU034621.D (-414) (-)

2.46

100000

80000

60000

40000

20000

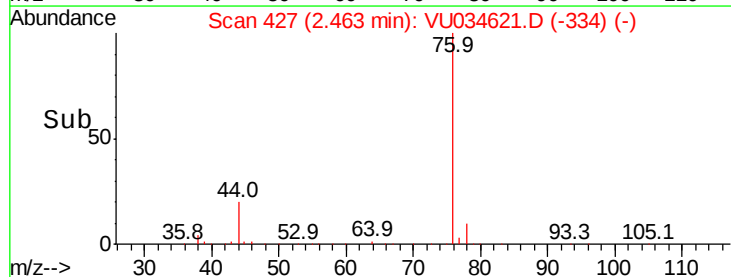
0

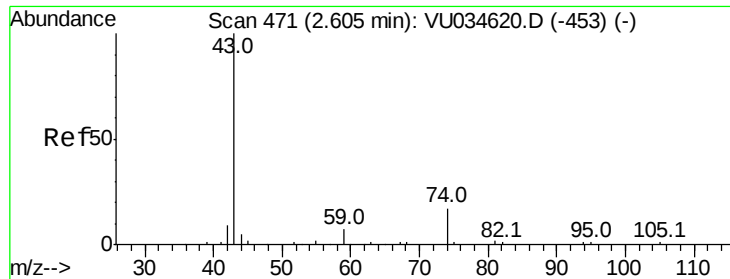
Time-->

2.40

2.50

2.60





#15

Methvl Acetate

Concen: 9.697 ug/L

RT: 2.60 min Scan# 471

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

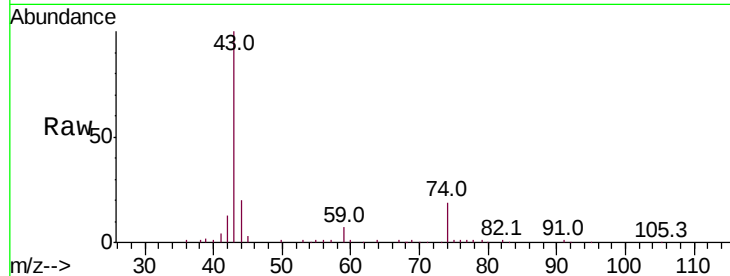
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 42761

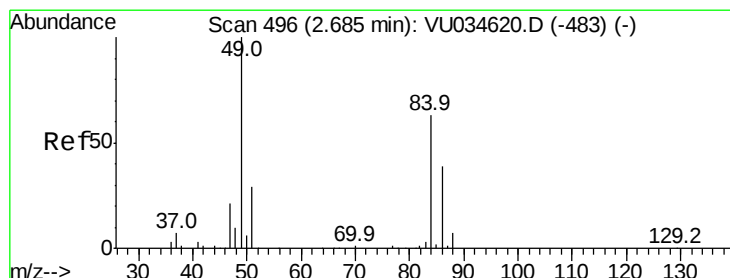
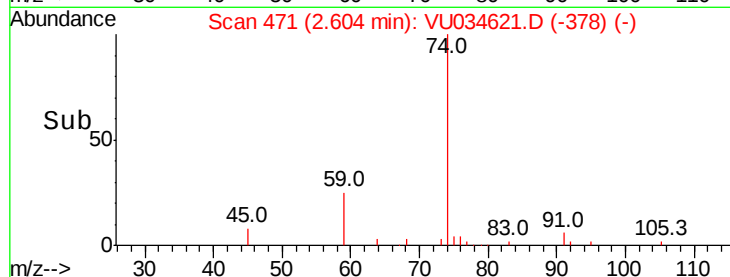
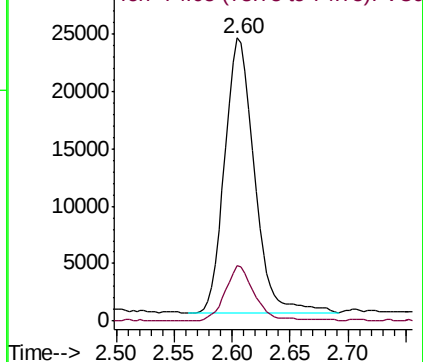
Ion Ratio Lower Upper

43 100

74 19.8 14.2 21.2



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



#16

Methylene chloride

Concen: 10.445 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

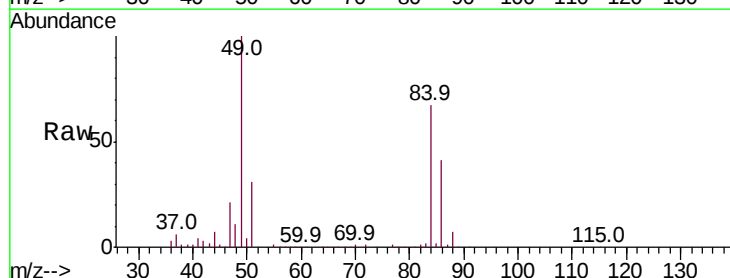
Tgt Ion: 84 Resp: 71284

Ion Ratio Lower Upper

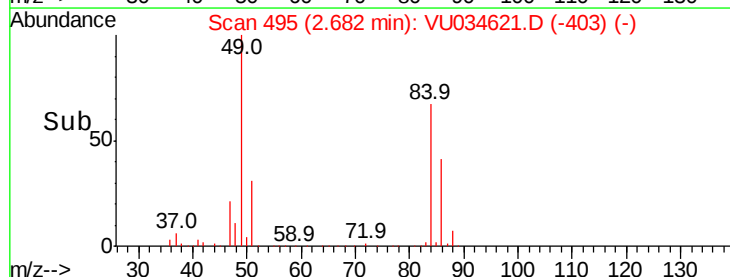
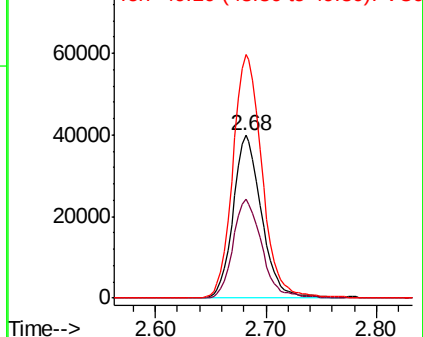
84 100

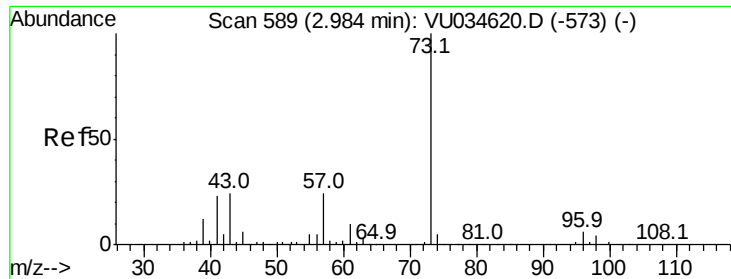
86 60.8 43.0 80.0

49 149.9 110.9 205.9



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

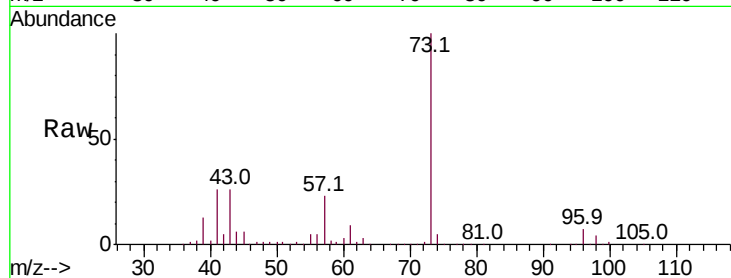




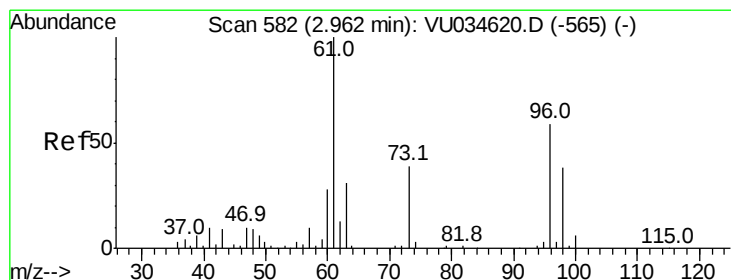
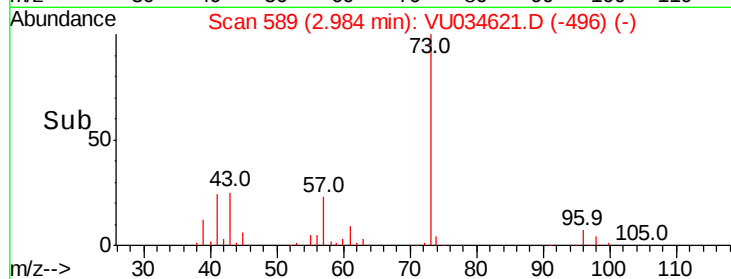
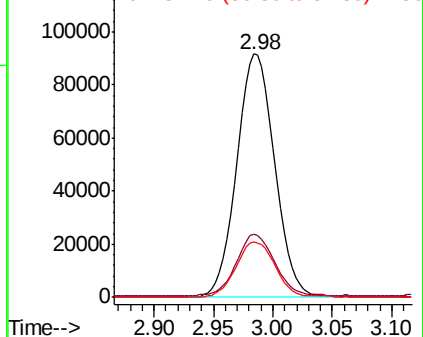
#17
Methvl tert-butvl Ether
Concen: 10.591 ug/L
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 202693
Ion Ratio Lower Upper
73 100
43 25.6 20.3 30.5
57 23.3 18.9 28.3

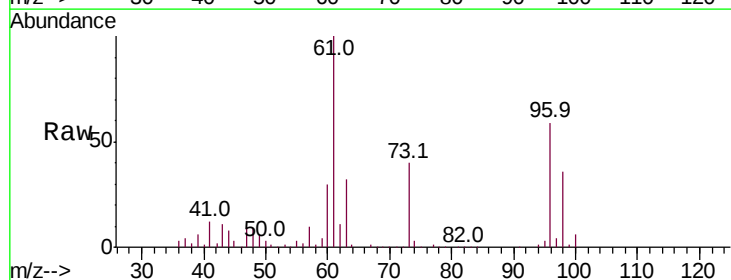


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

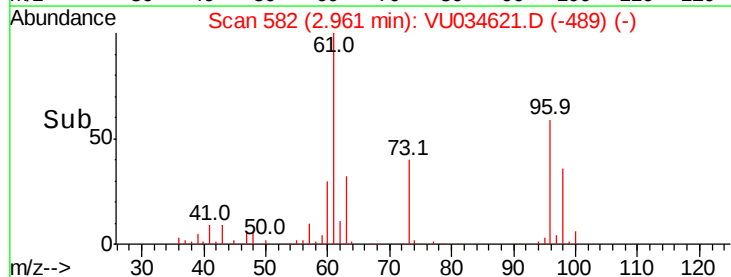
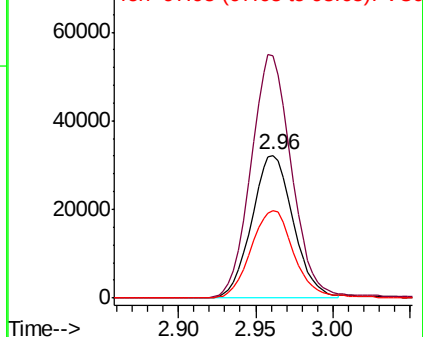


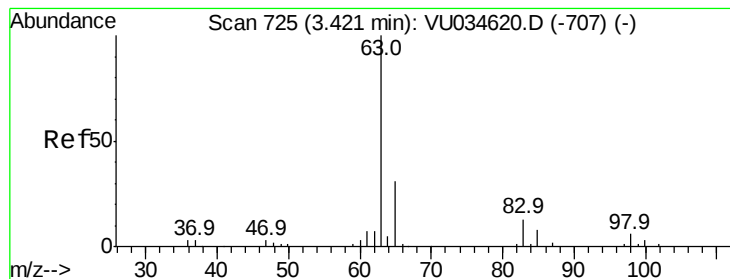
#18
trans-1,2-Dichloroethene
Concen: 11.082 ug/L
RT: 2.96 min Scan# 582
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Tgt Ion: 96 Resp: 60219
Ion Ratio Lower Upper
96 100
61 169.1 118.2 219.6
98 61.5 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 10.707 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

ClientSampleId :

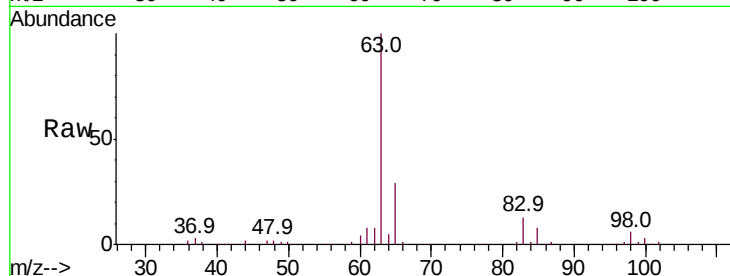
Tot Ion: 63 Resp: 149566

Ion Ratio Lower Upper

63 100

65 28.9 21.9 40.7

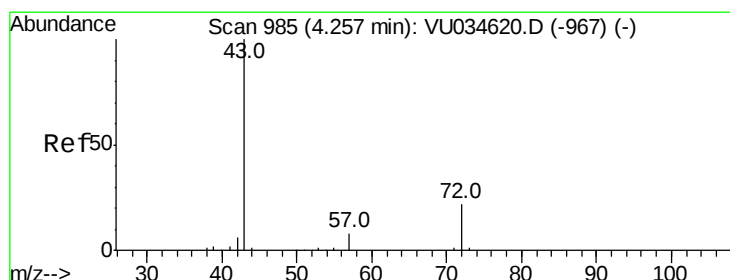
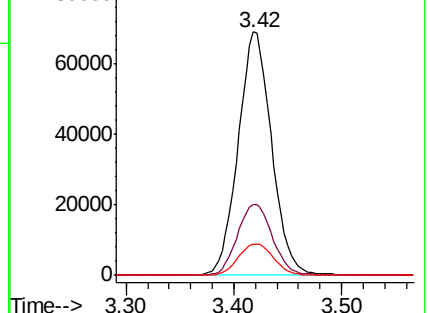
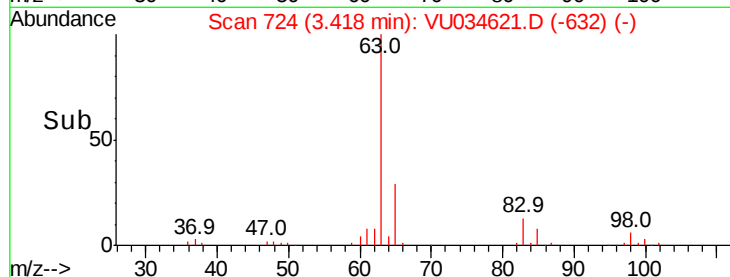
83 12.8 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU034621.D (-632) (-)

Ion 65.10 (64.80 to 65.80): VU034621.D (-632) (-)

Ion 83.05 (82.75 to 83.75): VU034621.D (-632) (-)



#21

2-Butanone

Concen: 106.284 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU034621.D

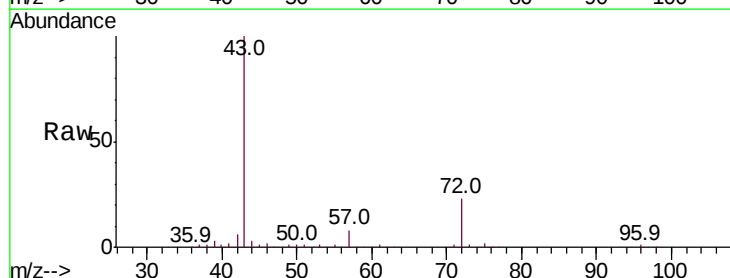
Acq: 17 Sep 2019 17:38

Tgt Ion: 43 Resp: 283950

Ion Ratio Lower Upper

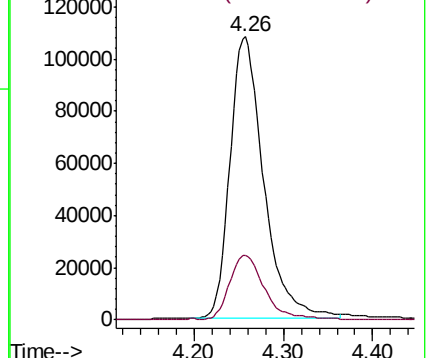
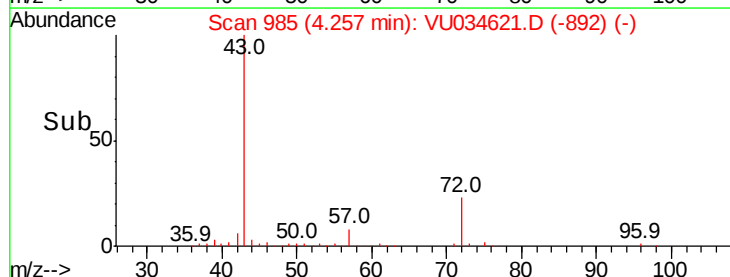
43 100

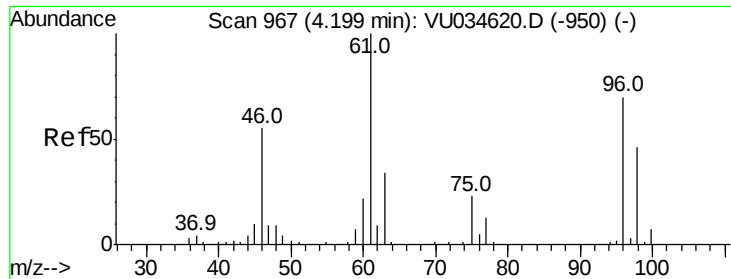
72 23.3 10.8 32.3



Abundance Ion 43.05 (42.75 to 43.75): VU034621.D (-892) (-)

Ion 72.10 (71.80 to 72.80): VU034621.D (-892) (-)



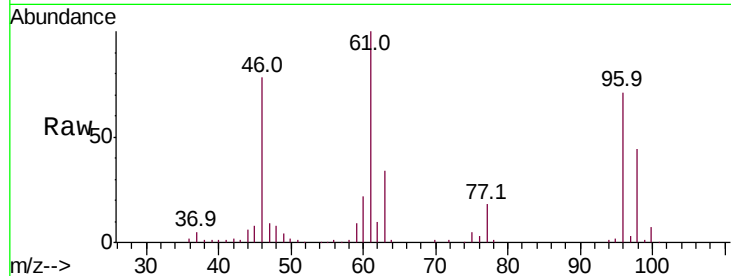


#22

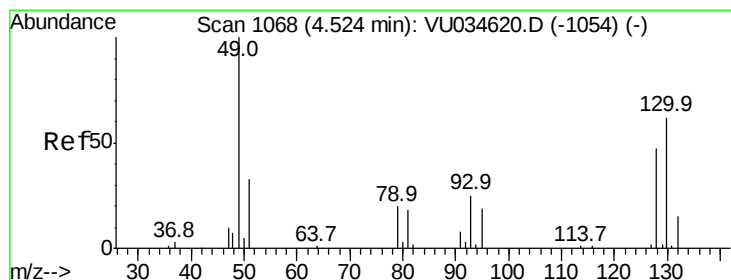
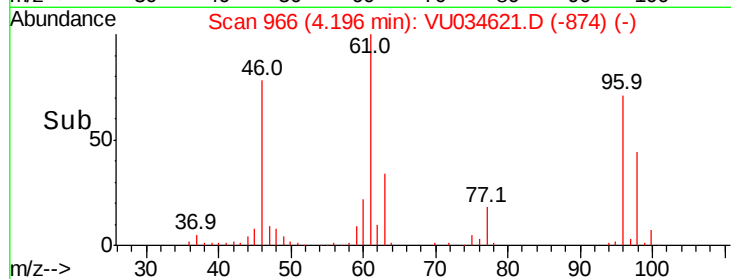
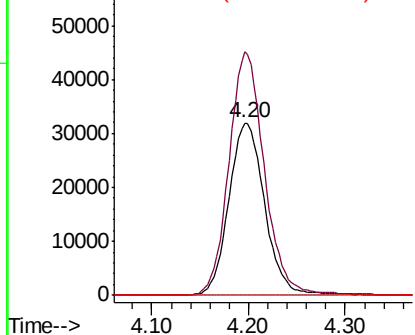
cis-1,2-Dichloroethene
 Concen: 10.141 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 82159
 Ion Ratio Lower Upper
 96 100
 61 141.1 100.0 185.8
 68 0.0 0.0 0.0



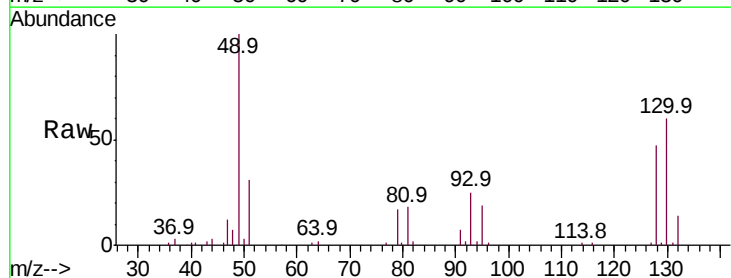
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



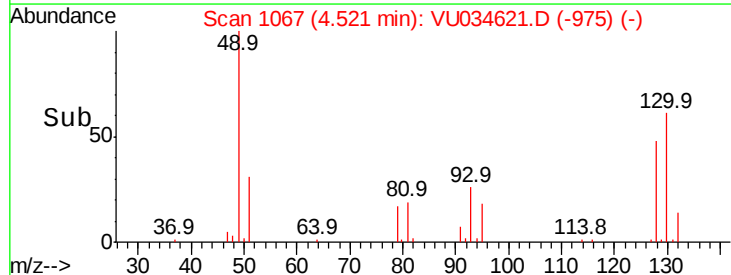
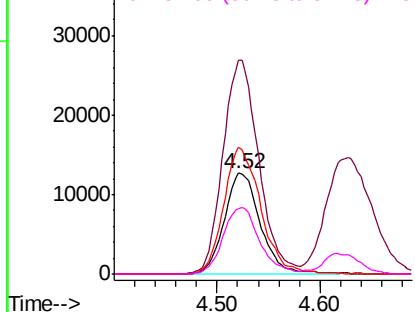
#23

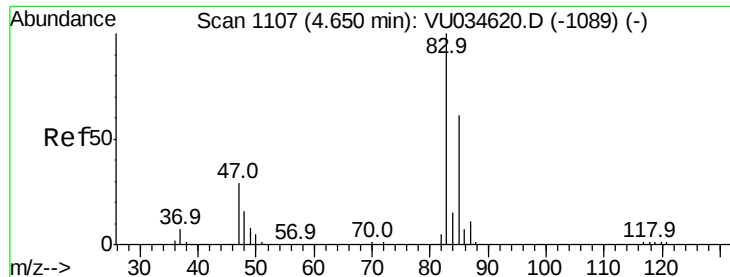
Bromochloromethane
 Concen: 9.291 ug/L
 RT: 4.52 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Tgt Ion: 128 Resp: 30790
 Ion Ratio Lower Upper
 128 100
 49 211.4 149.9 278.3
 130 126.1 91.3 169.6
 51 65.1 55.7 83.5



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

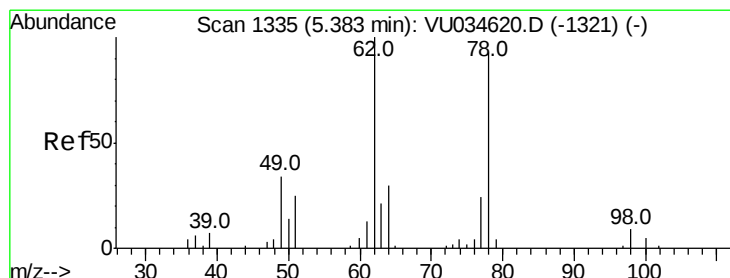
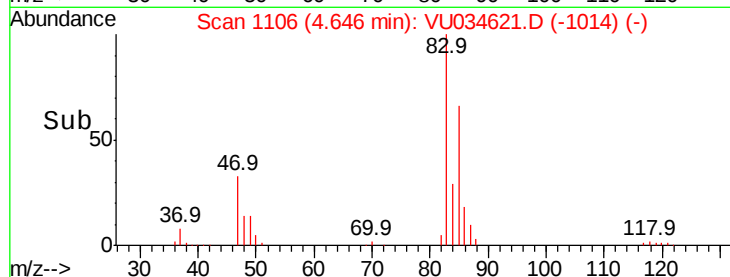
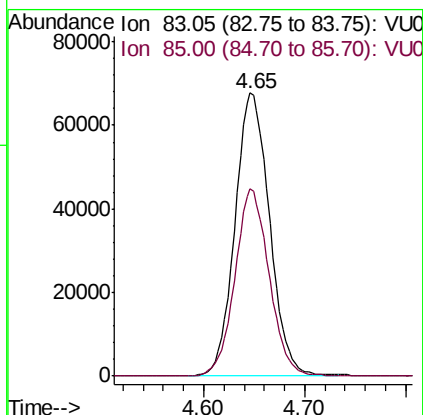
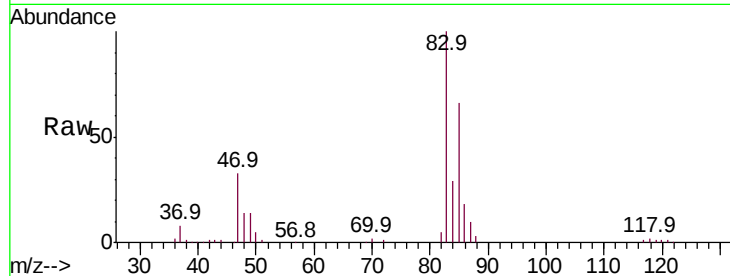




#25
Chloroform
Concen: 10.594 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

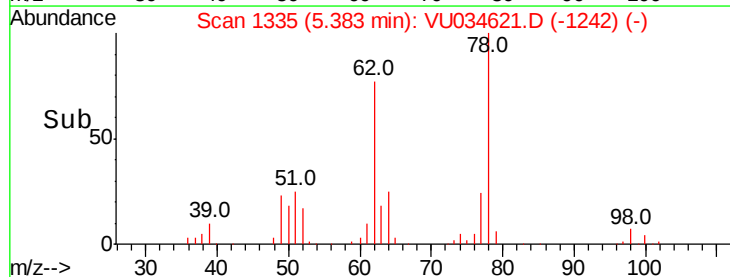
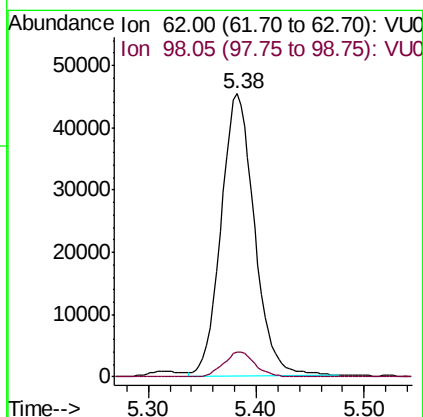
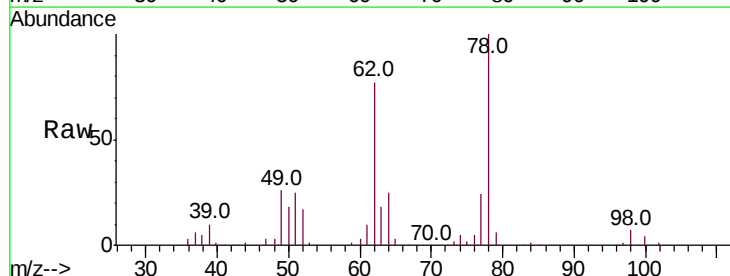
Instrument :
MSVOA_U
ClientSampleId :

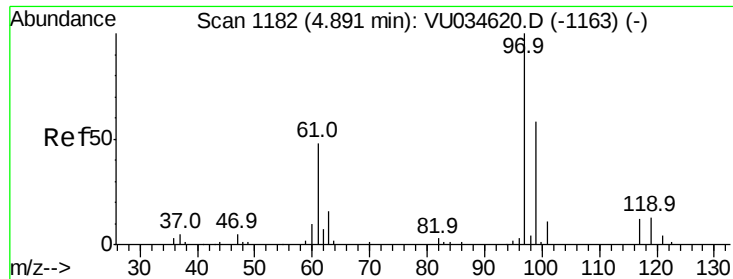
Tot Ion: 83 Resp: 161179
Ion Ratio Lower Upper
83 100
85 66.4 42.8 79.4



#27
1,2-Dichloroethane
Concen: 11.017 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Tgt Ion: 62 Resp: 97561
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.6

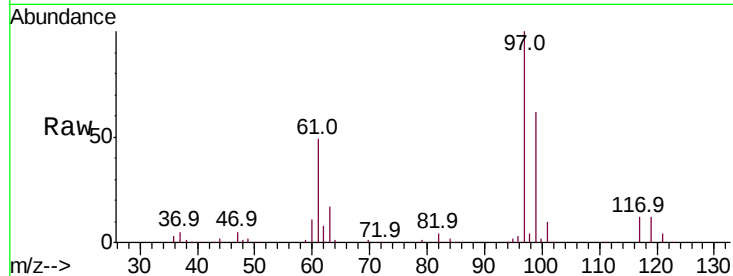




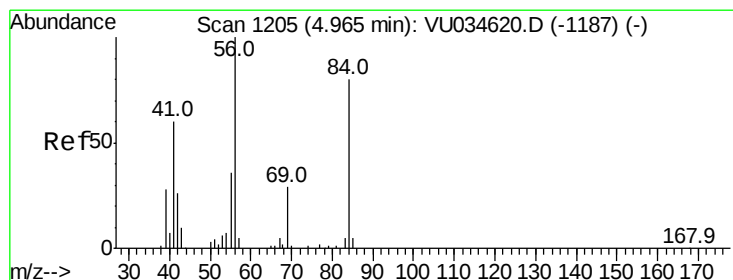
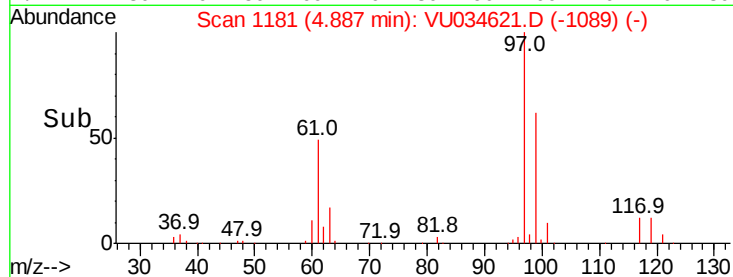
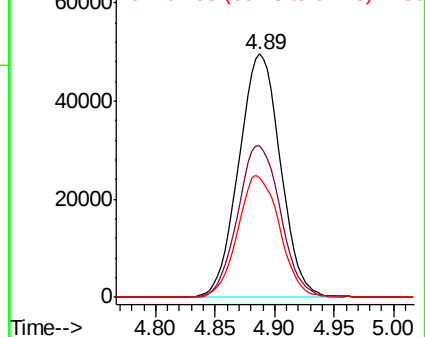
#29
 1,1,1-Trichloroethane
 Concen: 11.015 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 120511
 Ion Ratio Lower Upper
 97 100
 99 64.3 50.0 75.0
 61 50.4 39.8 59.6

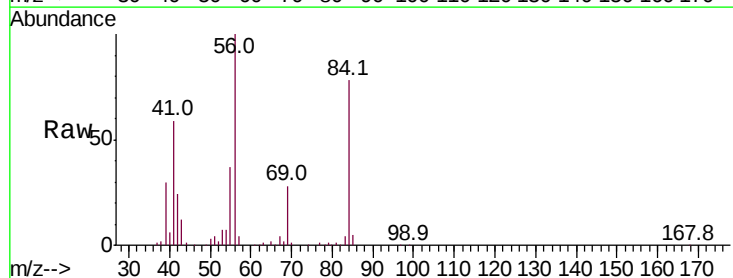


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

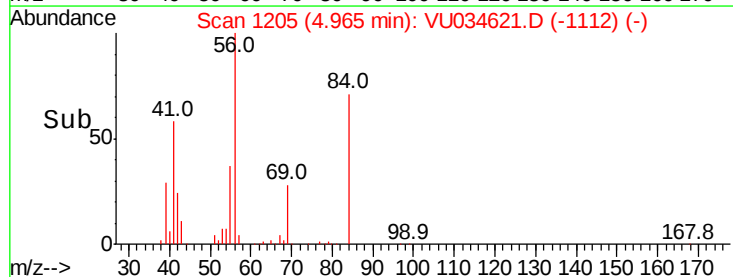
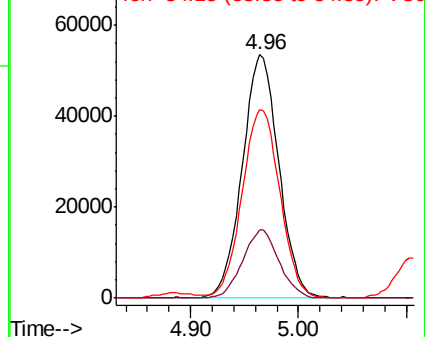


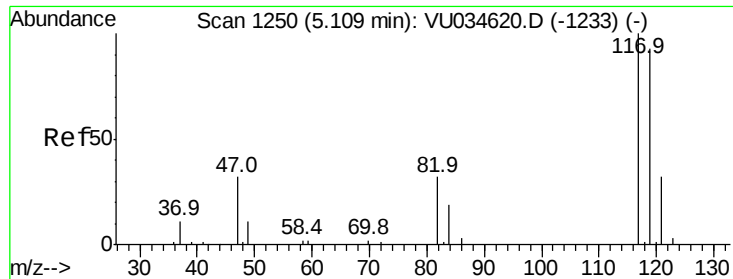
#30
 Cyclohexane
 Concen: 13.537 ug/L
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Tgt Ion: 56 Resp: 126259
 Ion Ratio Lower Upper
 56 100
 69 28.0 21.4 32.2
 84 80.3 64.2 96.2



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: 11.566 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

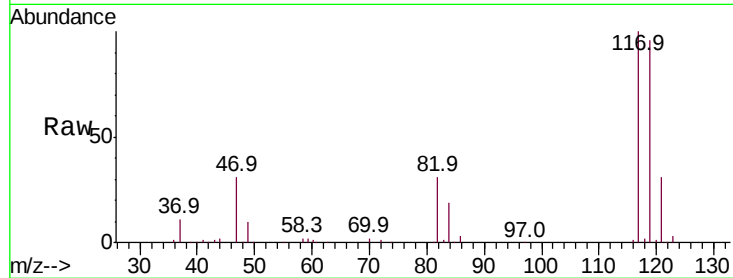
ClientSampleId :

Tot Ion:117 Resp: 99842

Ion Ratio Lower Upper

117 100

119 95.6 74.2 111.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.11

40000

30000

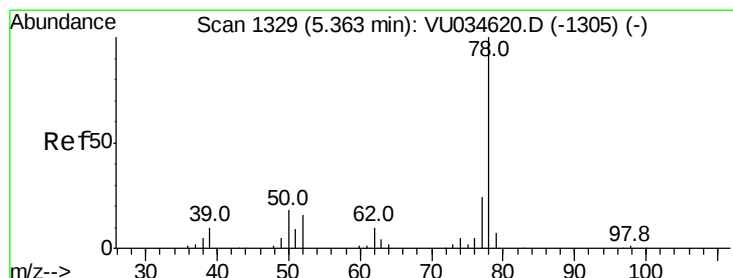
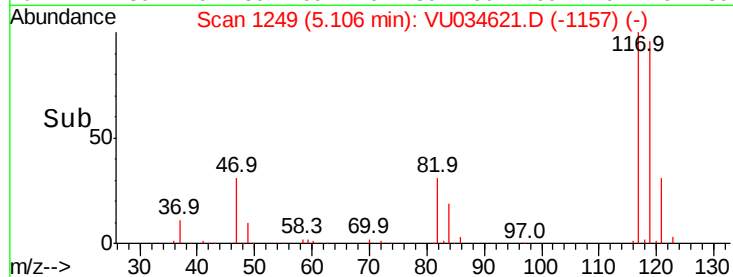
20000

10000

0

Time-->

5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 10.821 ug/L

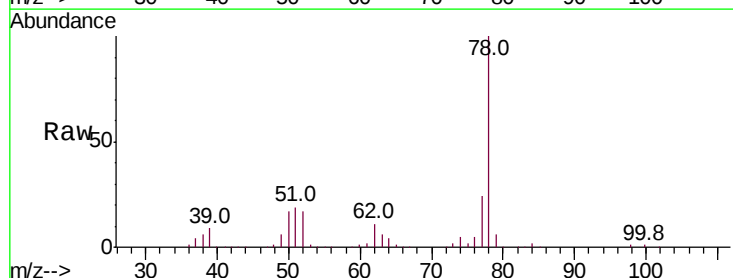
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Tgt Ion: 78 Resp: 316233



Abundance Ion 78.10 (77.80 to 78.80): VU0

150000

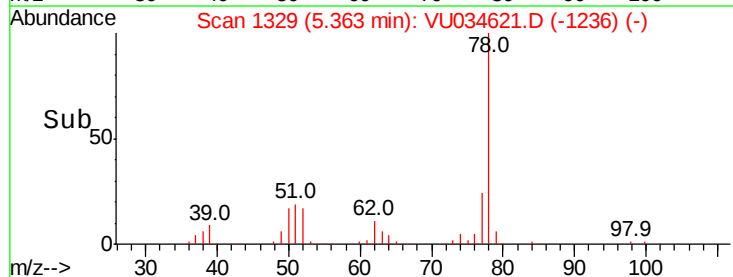
100000

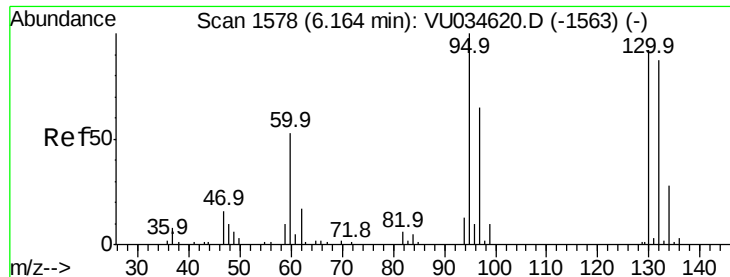
50000

0

Time-->

5.30 5.40





#34

Trichloroethene

Concen: 10.845 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 79292

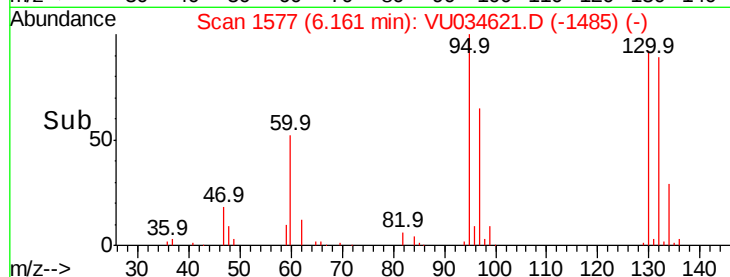
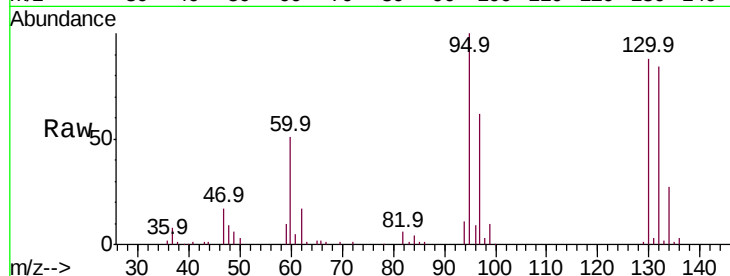
Ion Ratio Lower Upper

95 100

97 62.1 45.2 84.0

132 84.4 60.9 113.1

130 87.9 64.3 119.3

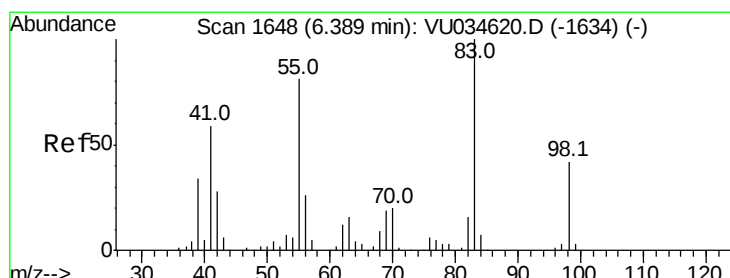
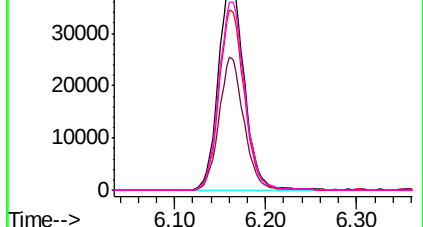


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 12.941 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

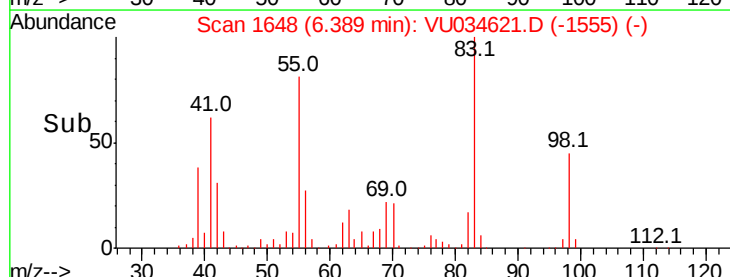
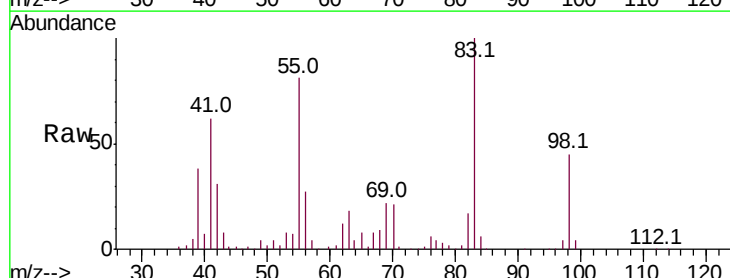
Tgt Ion: 83 Resp: 123550

Ion Ratio Lower Upper

83 100

55 81.6 66.8 100.2

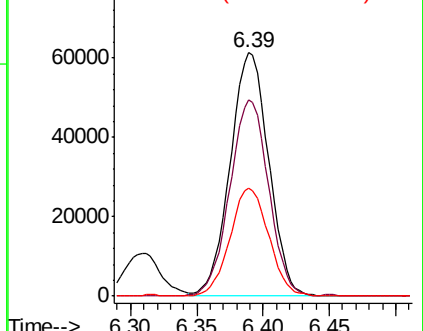
98 44.7 35.4 53.0

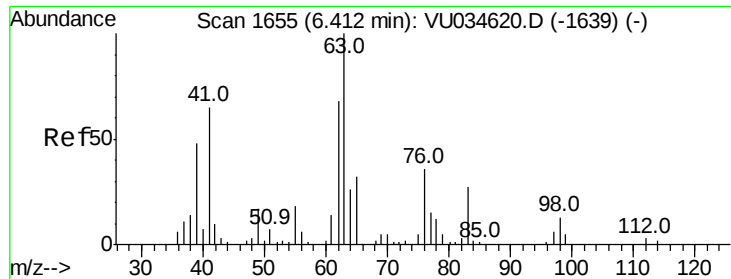


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

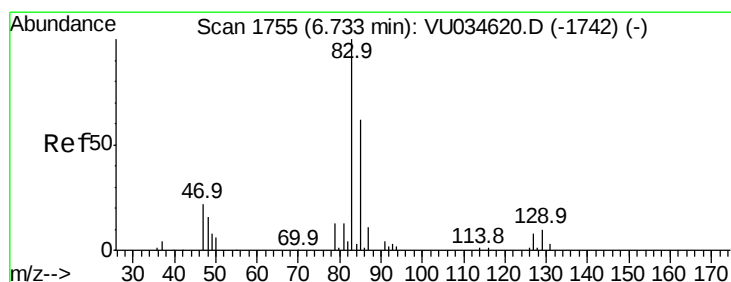
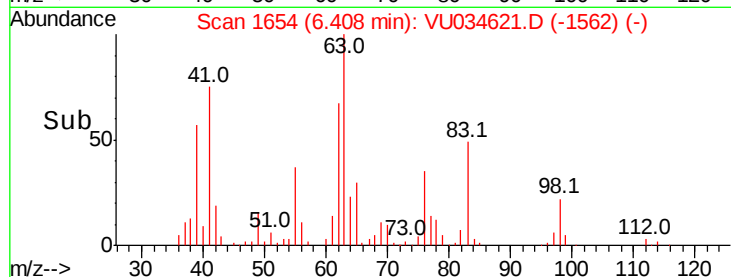
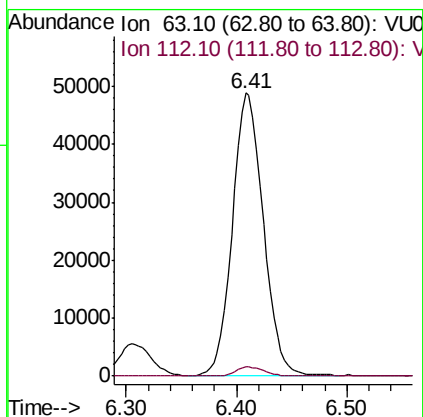
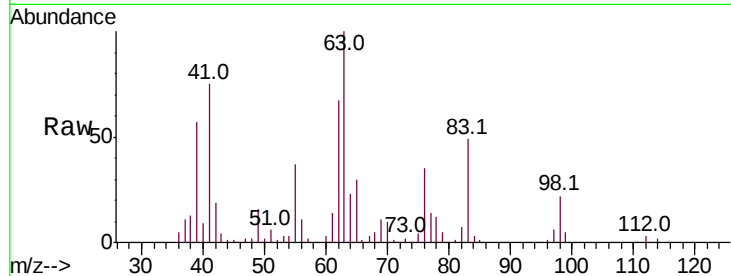




#37
 1,2-Dichloropropane
 Concen: 11.011 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

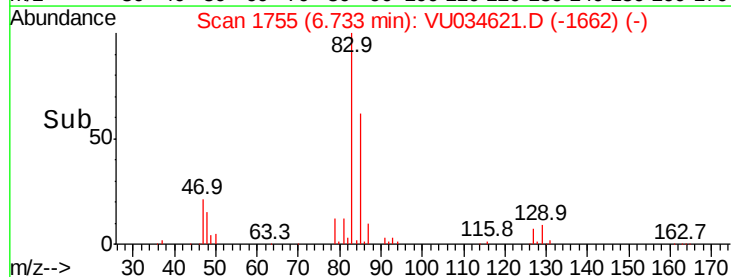
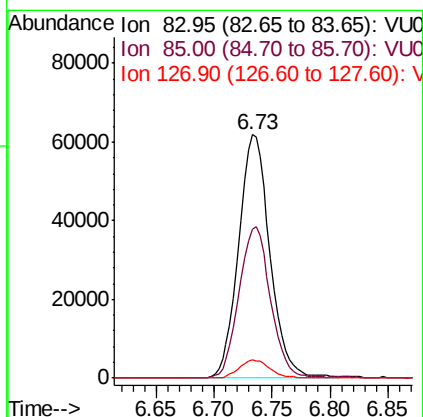
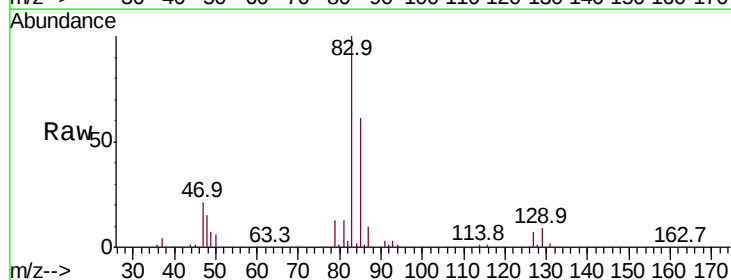
Instrument :
 MSVOA_U
 ClientSampleID :

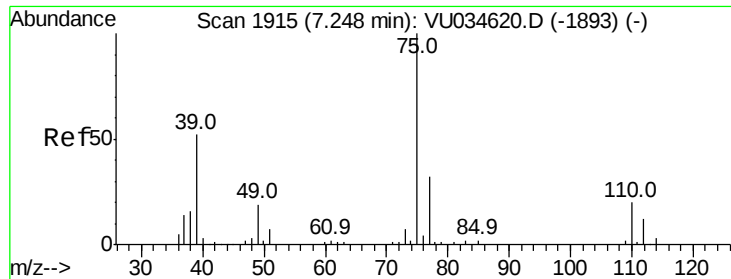
Tot Ion: 63 Resp: 95036
 Ion Ratio Lower Upper
 63 100
 112 3.0 2.2 3.2



#38
 Bromodichloromethane
 Concen: 10.786 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Tgt Ion: 83 Resp: 116429
 Ion Ratio Lower Upper
 83 100
 85 61.0 43.4 80.6
 127 7.3 6.2 9.2

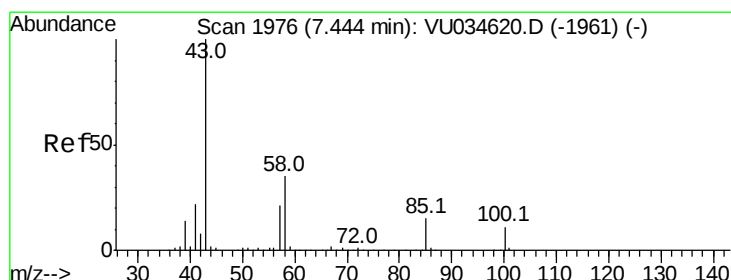
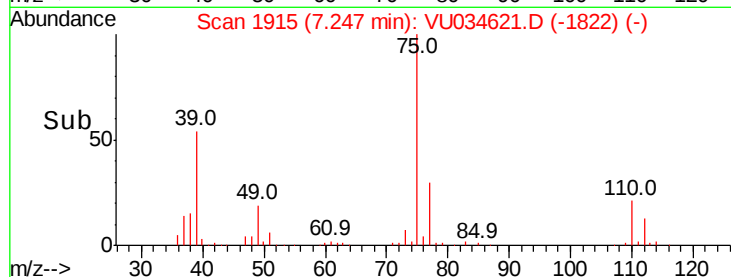
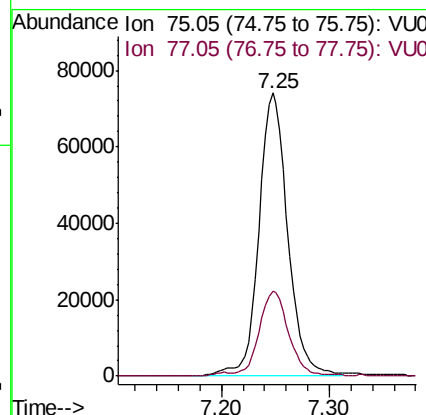
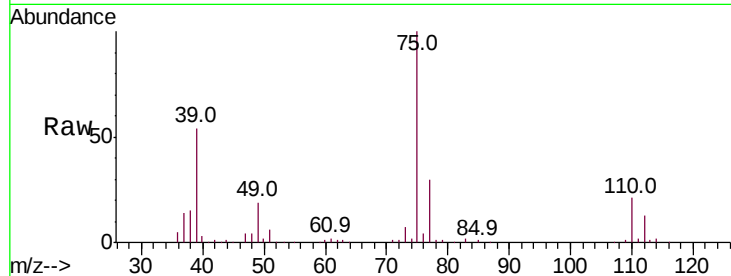




#39
 cis-1,3-Dichloropropene
 Concen: 10.723 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

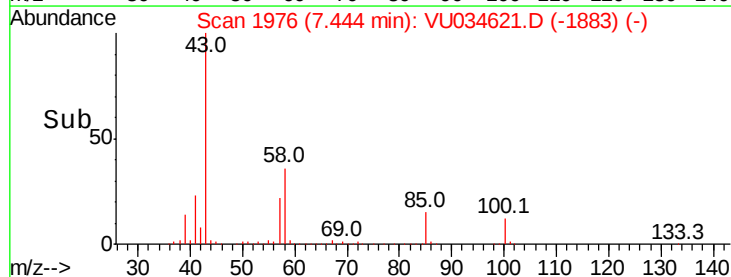
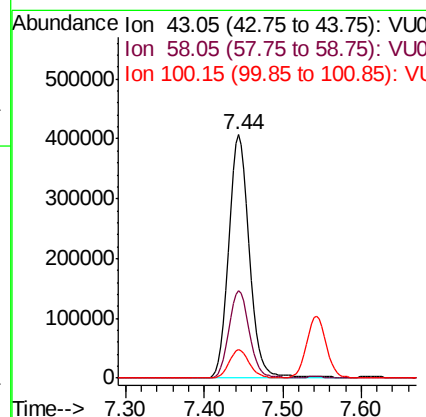
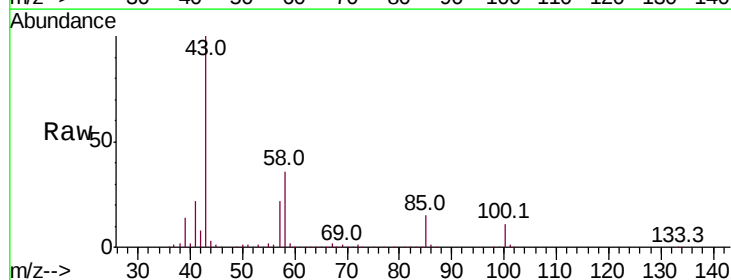
Instrument :
 MSVOA_U
 ClientSampleId :

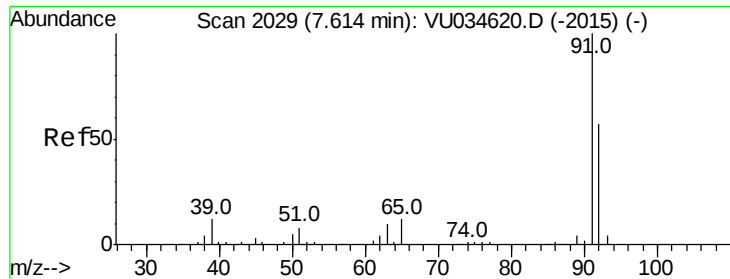
Tot Ion: 75 Resp: 137637
 Ion Ratio Lower Upper
 75 100
 77 30.2 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 104.649 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Tgt Ion: 43 Resp: 736147
 Ion Ratio Lower Upper
 43 100
 58 35.7 28.6 42.8
 100 11.5 8.9 13.3





#42

Toluene

Concen: 10.971 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

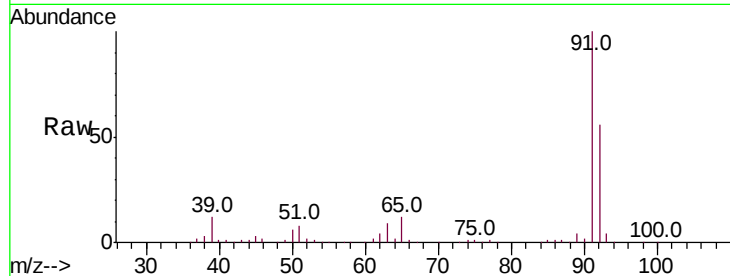
ClientSampleId :

Tot Ion: 91 Resp: 340290

Ion Ratio Lower Upper

91 100

92 56.4 39.6 73.6



Abundance Ion 91.15 (90.85 to 91.85): VU034620.D (-2015) (-)

Ion 92.15 (91.85 to 92.85): VU034620.D (-2015) (-)

7.61

200000

150000

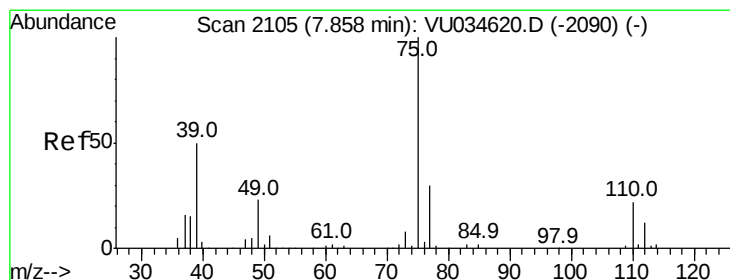
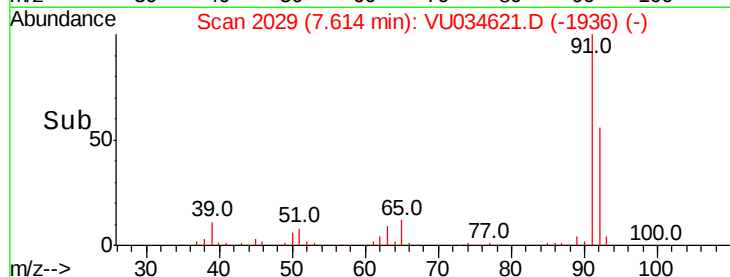
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#44

trans-1,3-Dichloropropene

Concen: 10.481 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034621.D

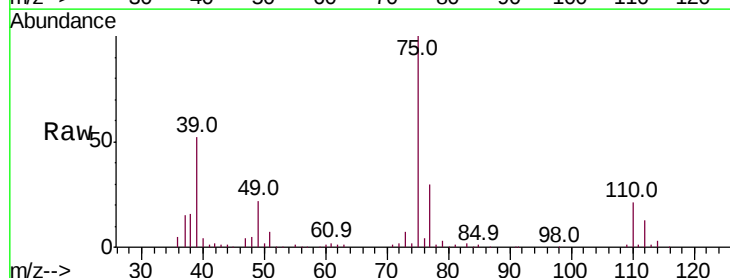
Acq: 17 Sep 2019 17:38

Tgt Ion: 75 Resp: 111697

Ion Ratio Lower Upper

75 100

77 30.4 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VU034620.D (-2090) (-)

Ion 77.05 (76.75 to 77.75): VU034620.D (-2090) (-)

7.86

60000

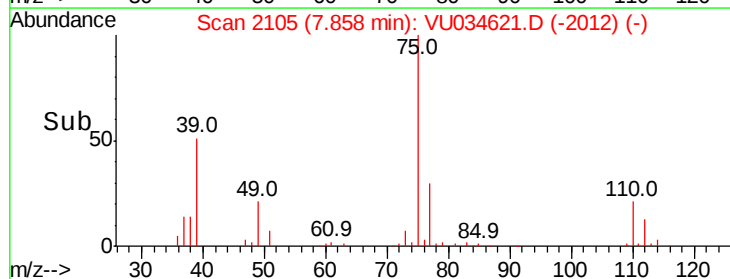
40000

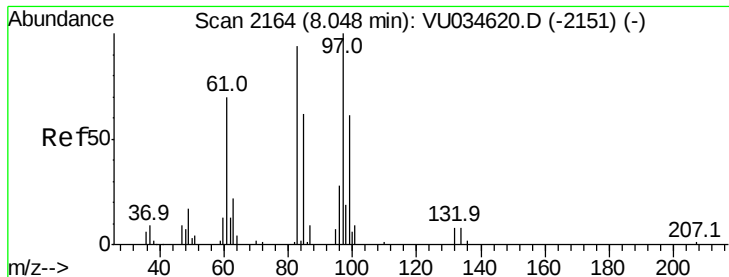
20000

0

7.80 7.90 8.00

Time-->

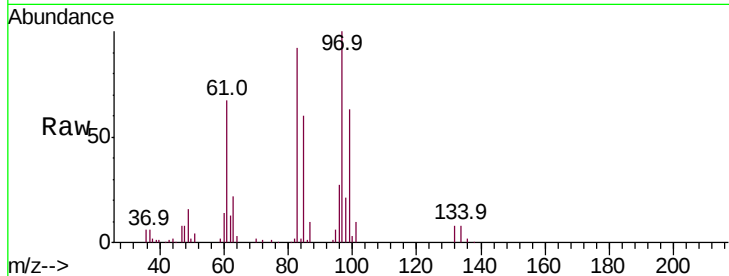




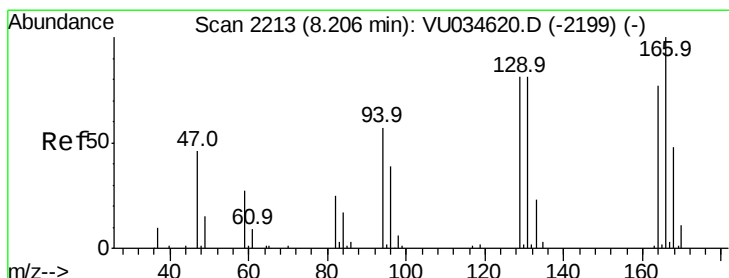
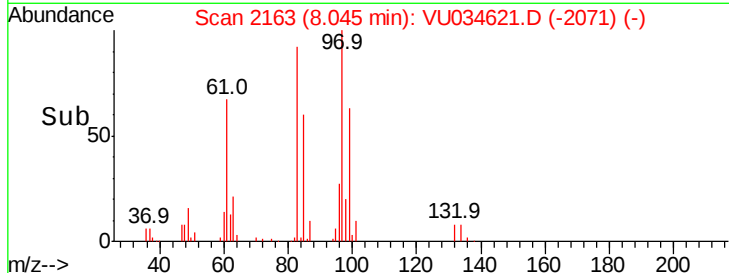
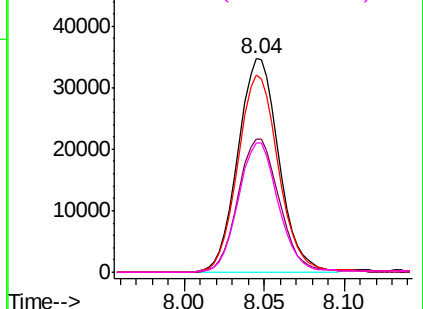
#45
1,1,2-Trichloroethane
Concen: 10.018 ug/L
RT: 8.04 min Scan# 2163
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 60756
Ion Ratio Lower Upper
97 100
99 62.6 42.5 78.9
83 92.2 65.9 122.5
85 60.4 43.5 80.9

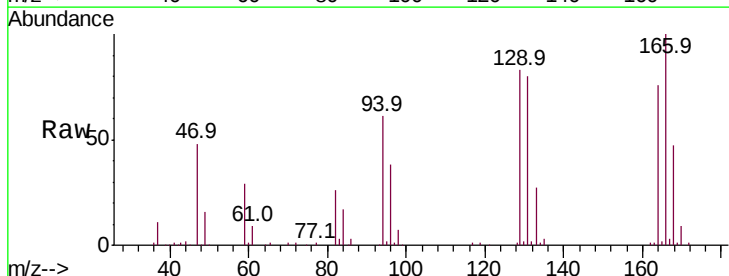


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

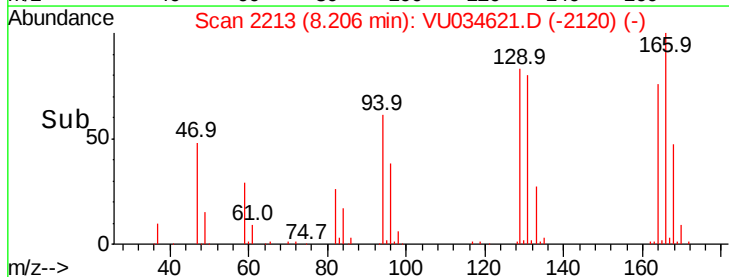
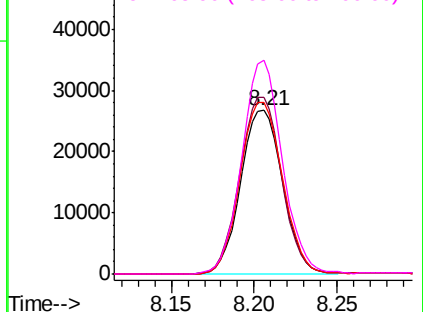


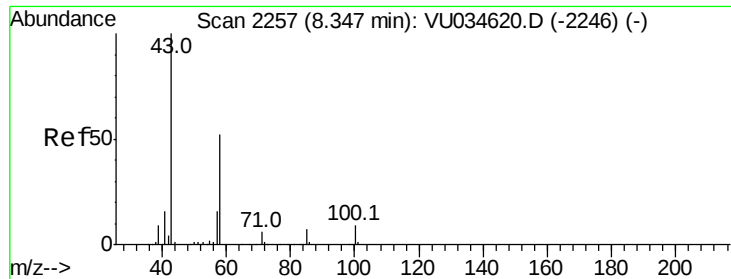
#47
Tetrachloroethene
Concen: 10.568 ug/L
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Tgt Ion: 164 Resp: 47153
Ion Ratio Lower Upper
164 100
129 108.4 73.6 136.8
131 105.1 73.4 136.4
166 130.8 90.6 168.3



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

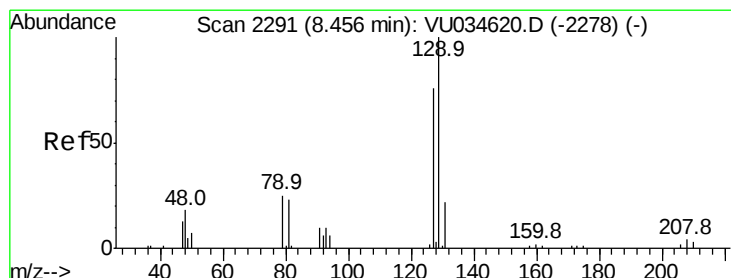
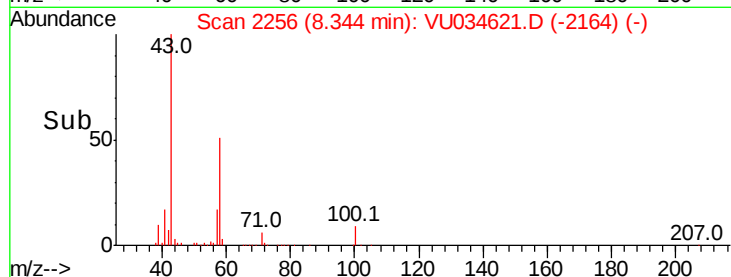
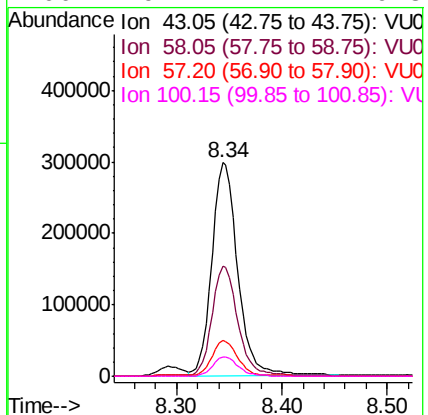
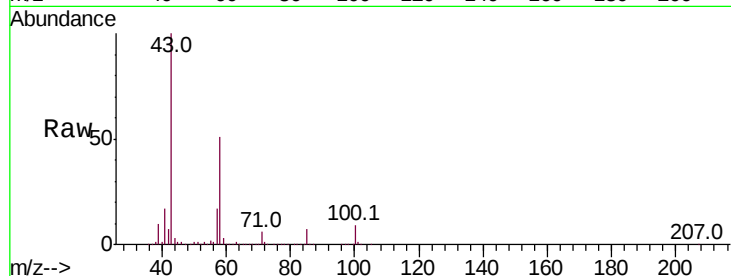




#48
2-Hexanone
Concen: 106.172 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

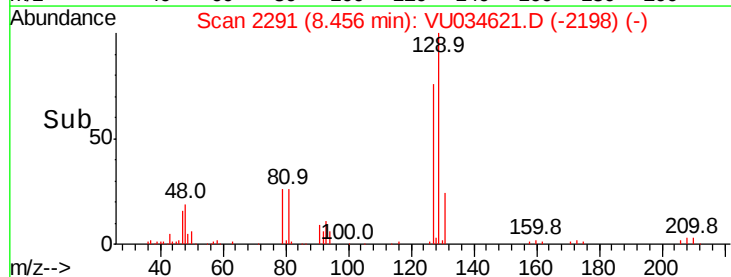
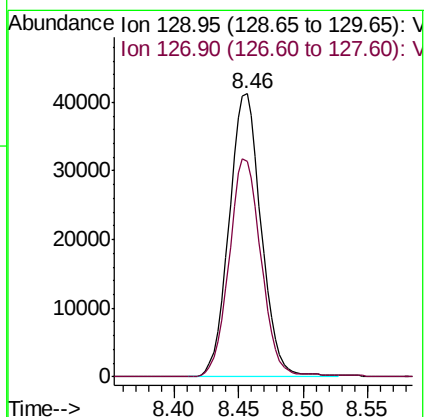
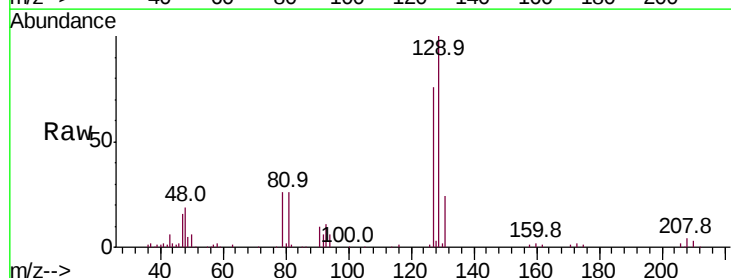
Instrument :
MSVOA_U
ClientSampleId :

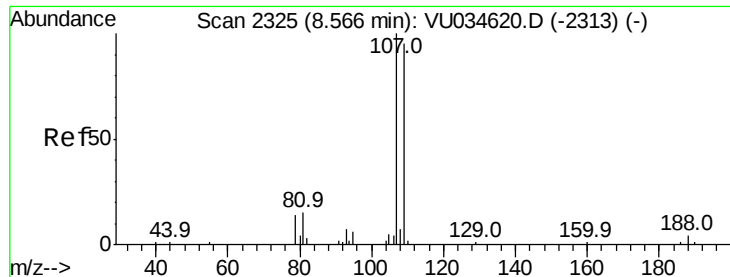
Tot Ion: 43 Resp: 505059
Ion Ratio Lower Upper
43 100
58 50.4 41.2 61.8
57 16.8 13.3 19.9
100 9.2 7.2 10.8



#49
Dibromochloromethane
Concen: 9.777 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Tgt Ion: 129 Resp: 71337
Ion Ratio Lower Upper
129 100
127 76.1 53.0 98.4

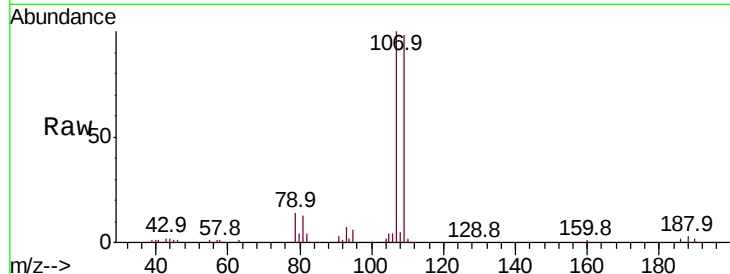




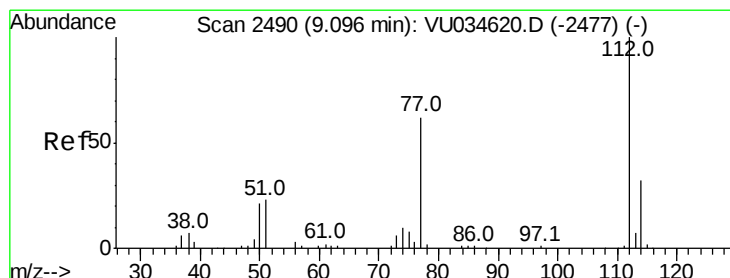
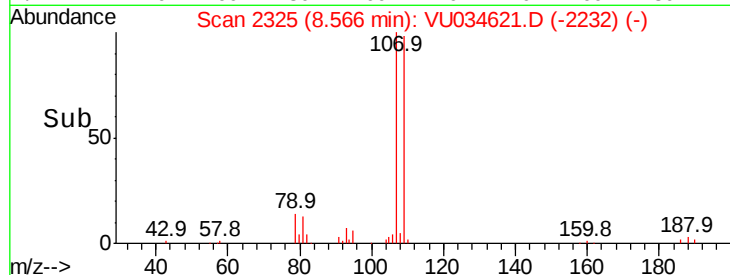
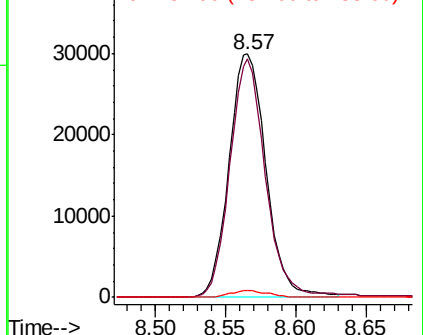
#50
1,2-Dibromoethane
Concen: 9.647 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.8	66.3	123.1
188	3.0	2.9	4.3

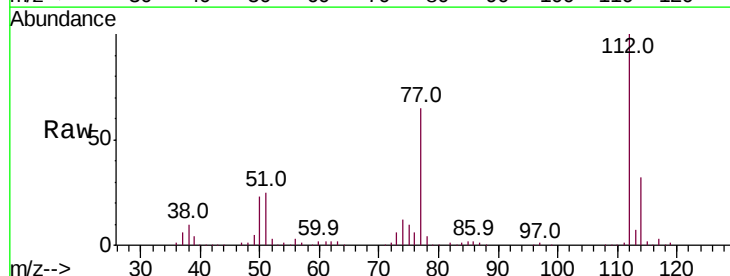


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

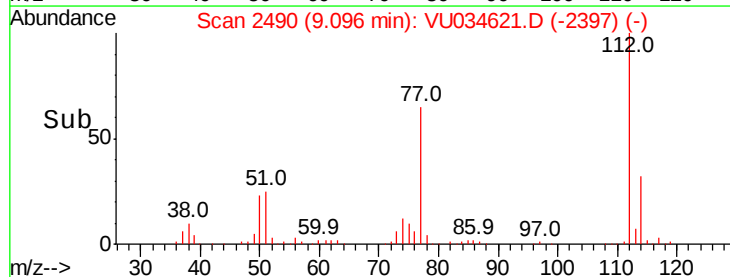
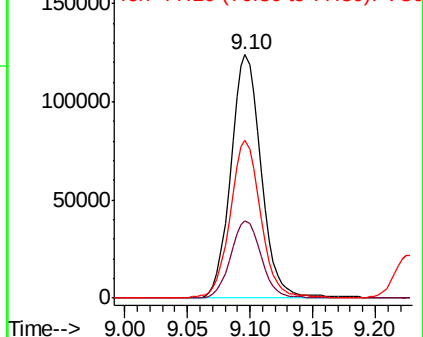


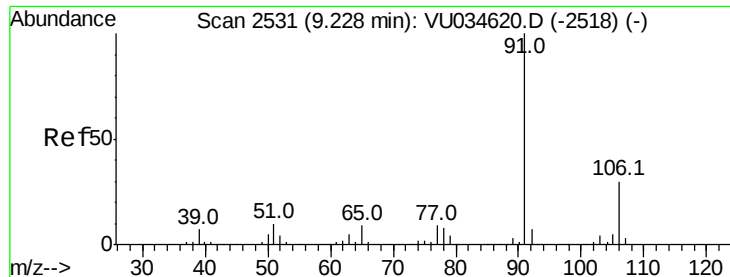
#51
Chlorobenzene
Concen: 10.375 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. -0.00 min
Lab File: VU034621.D
Acq: 17 Sep 2019 17:38

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.7
77	64.6	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: 10.908 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

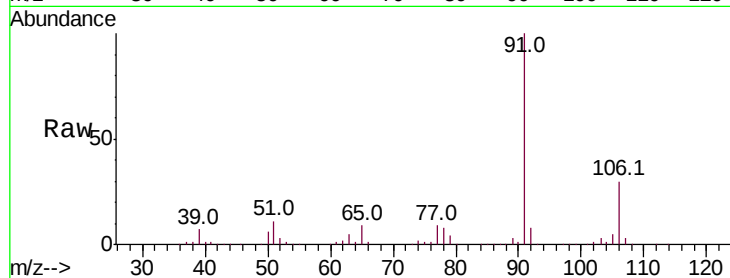
ClientSampleId :

Tot Ion: 91 Resp: 384847

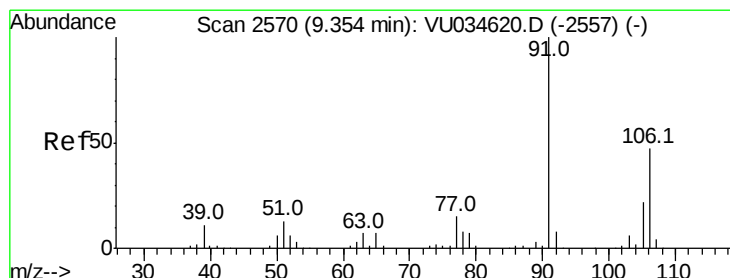
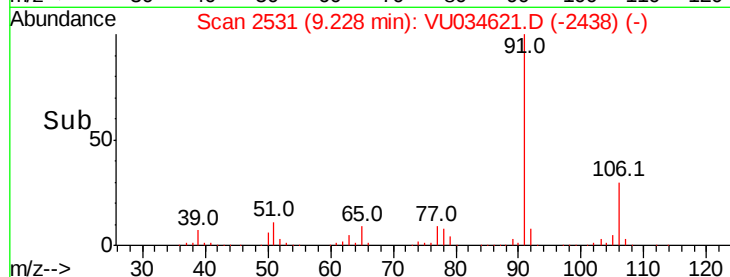
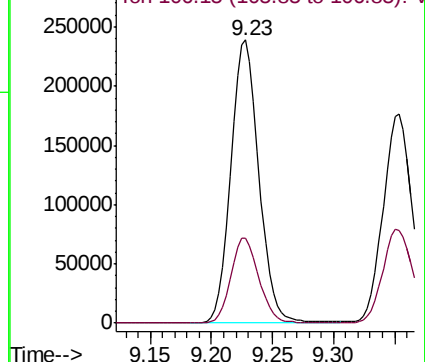
Ion Ratio Lower Upper

91 100

106 29.9 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU034620.D (-2518) (-)



#53

m,p-Xylene

Concen: 10.592 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034621.D

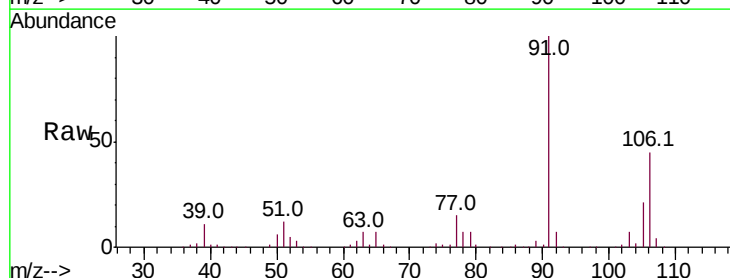
Acq: 17 Sep 2019 17:38

Tgt Ion: 106 Resp: 136204

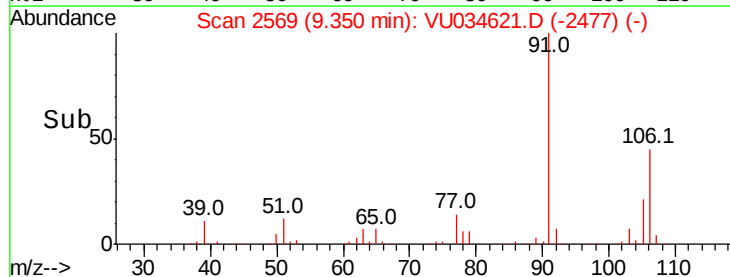
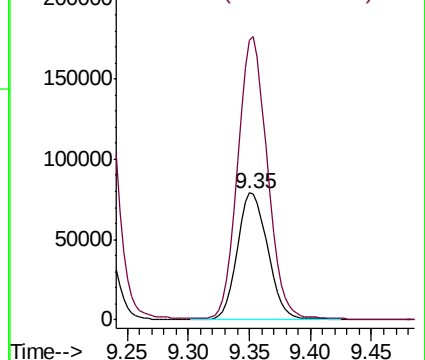
Ion Ratio Lower Upper

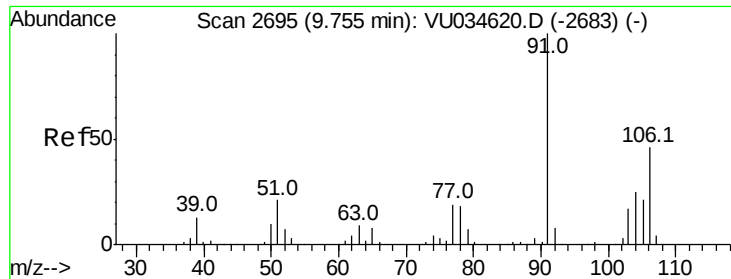
106 100

91 220.2 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): VU034620.D (-2557) (-)





#54

o-Xylene

Concen: 10.697 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

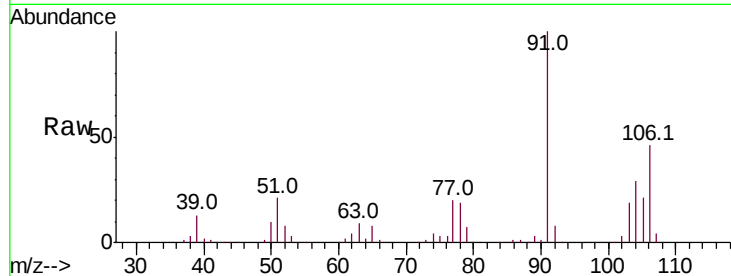
ClientSampleId :

Tot Ion:106 Resp: 140790

Ion Ratio Lower Upper

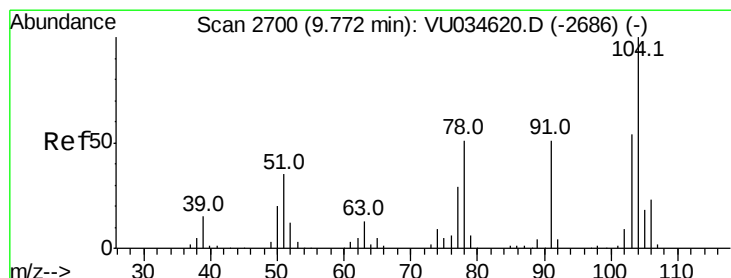
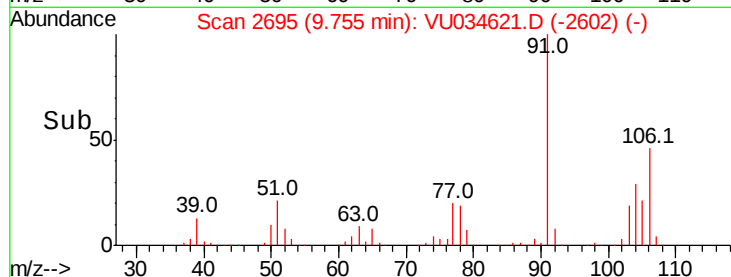
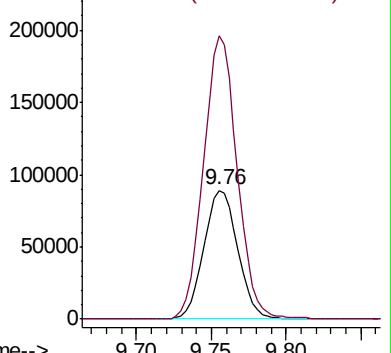
106 100

91 219.5 151.9 282.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 10.682 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VU034621.D

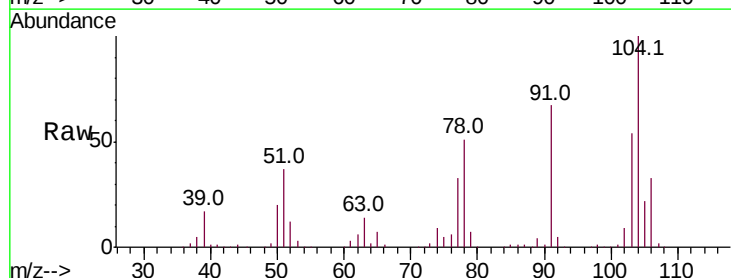
Acq: 17 Sep 2019 17:38

Tgt Ion:104 Resp: 239038

Ion Ratio Lower Upper

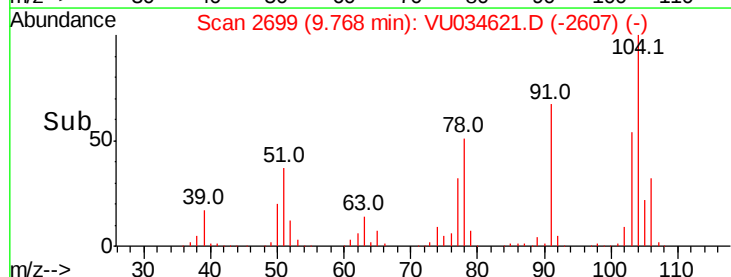
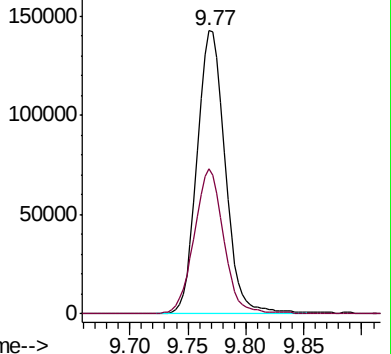
104 100

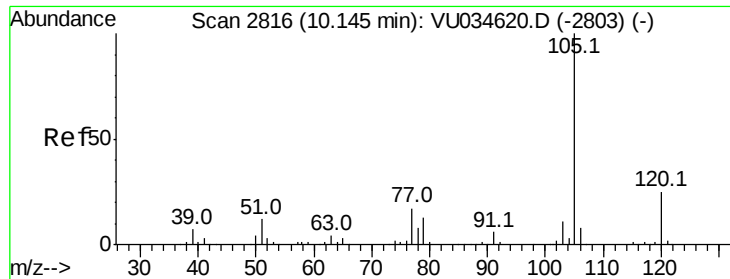
78 51.2 35.4 65.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 11.075 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

ClientSampleId :

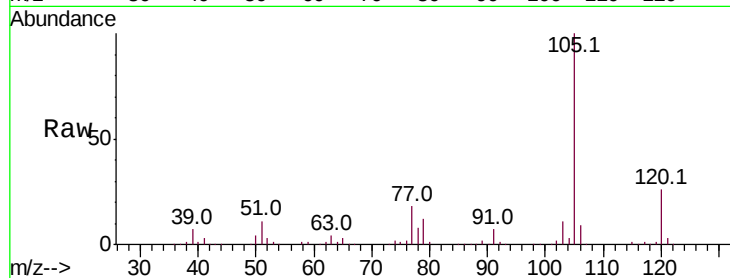
Tot Ion:105 Resp: 379695

Ion Ratio Lower Upper

105 100

120 25.8 19.8 29.6

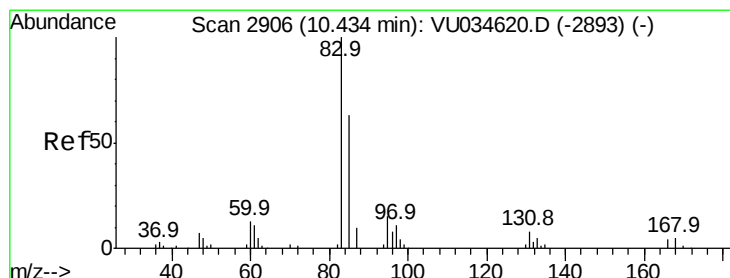
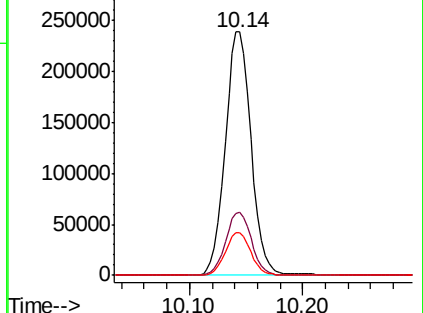
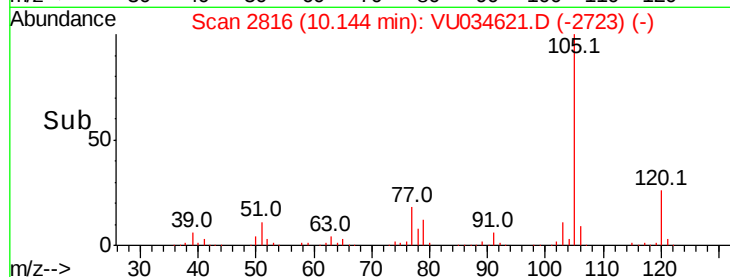
77 17.5 13.9 20.9



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: 9.951 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

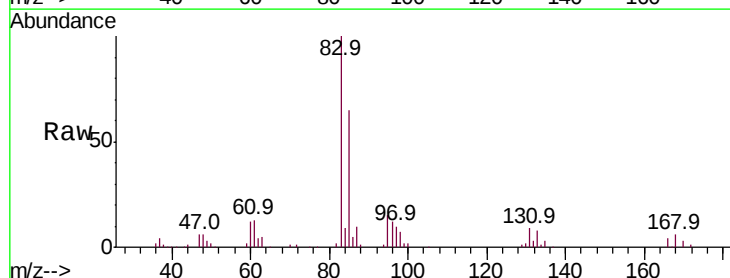
Tgt Ion: 83 Resp: 88897

Ion Ratio Lower Upper

83 100

85 64.9 44.4 82.4

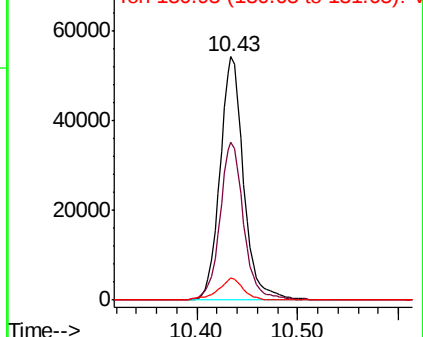
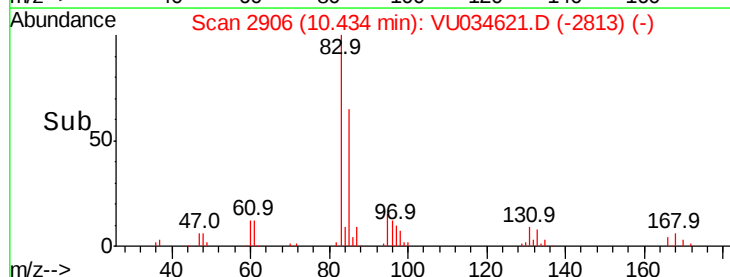
131 9.0 6.7 10.1

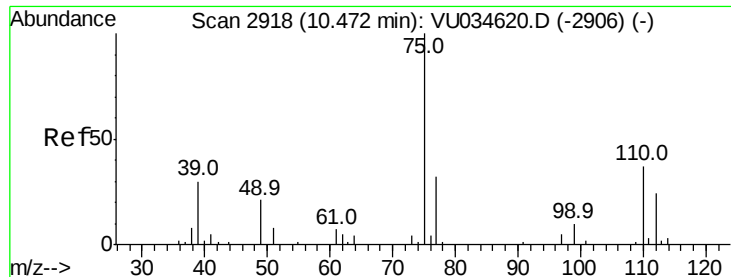


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

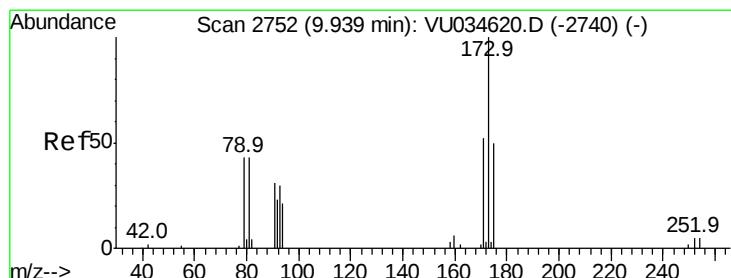
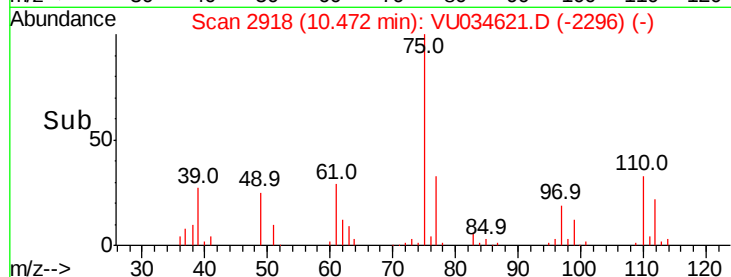
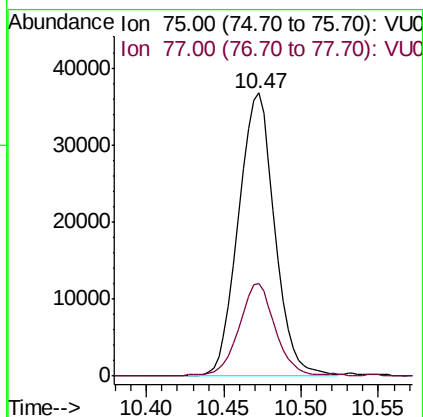
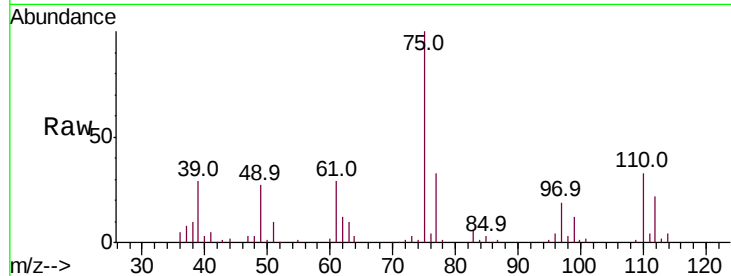




#59
 1,2,3-Trichloropropane
 Concen: 9.850 ug/L
 RT: 10.47 min Scan# 2918
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

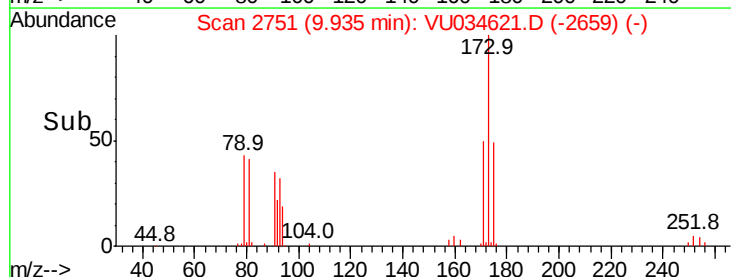
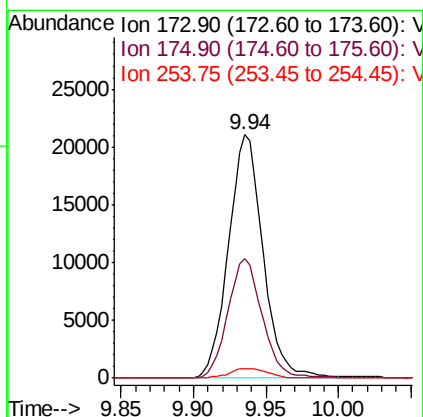
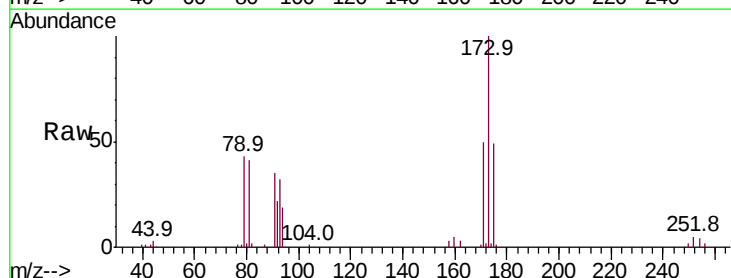
Instrument :
 MSVOA_U
 ClientSampleId :

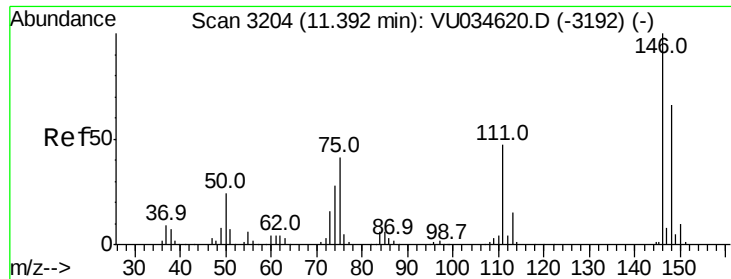
Tot Ion: 75 Resp: 60094
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.0 39.0



#61
 Bromoform
 Concen: 9.281 ug/L
 RT: 9.94 min Scan# 2751
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Tgt Ion:173 Resp: 34730
 Ion Ratio Lower Upper
 173 100
 175 48.6 40.0 60.0
 254 4.4 3.5 5.3





#62

1,3-Dichlorobenzene

Concen: 10.339 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

ClientSampleId :

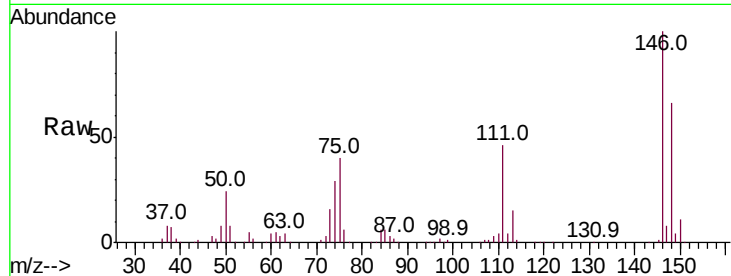
Tot Ion:146 Resp: 151559

Ion Ratio Lower Upper

146 100

111 45.7 32.8 61.0

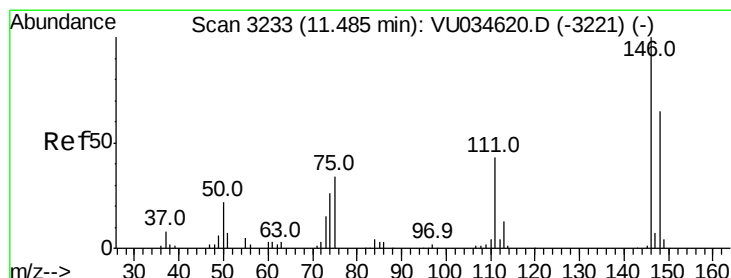
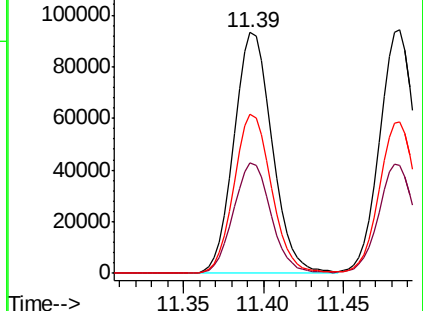
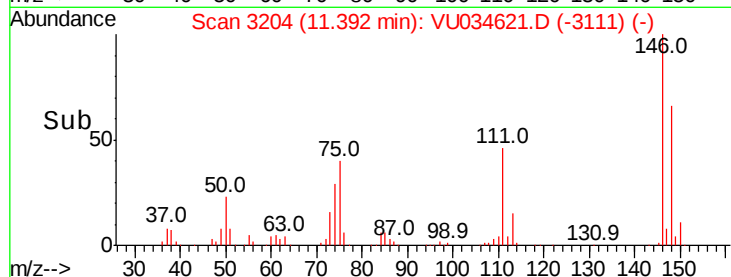
148 66.0 45.9 85.3



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: 10.437 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

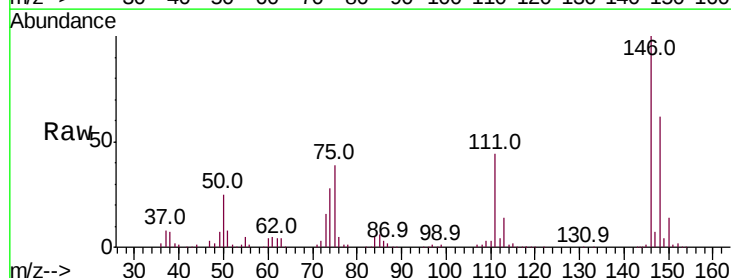
Tgt Ion:146 Resp: 152617

Ion Ratio Lower Upper

146 100

111 44.2 30.2 56.2

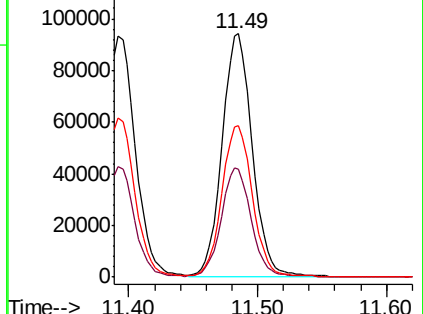
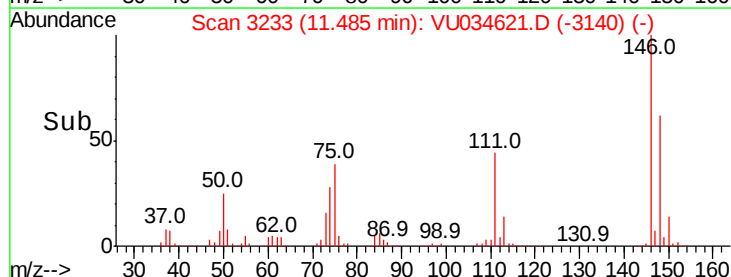
148 62.3 45.4 84.4

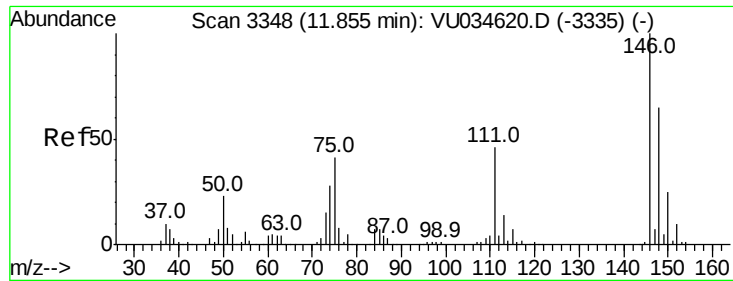


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 10.761 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

ClientSampleId :

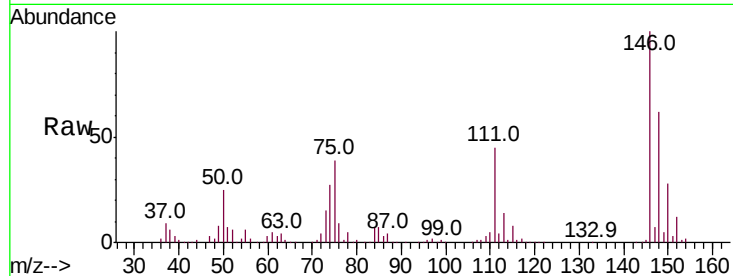
Tot Ion:146 Resp: 150409

Ion Ratio Lower Upper

146 100

111 45.3 37.1 55.7

148 62.0 51.8 77.6

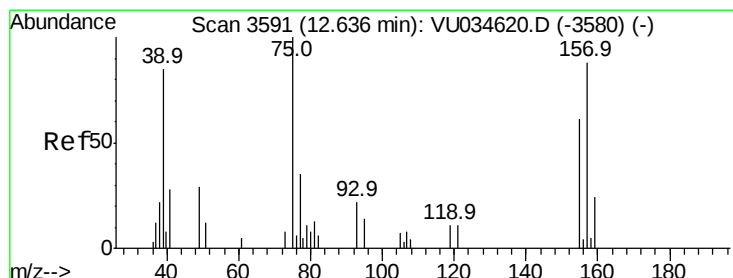
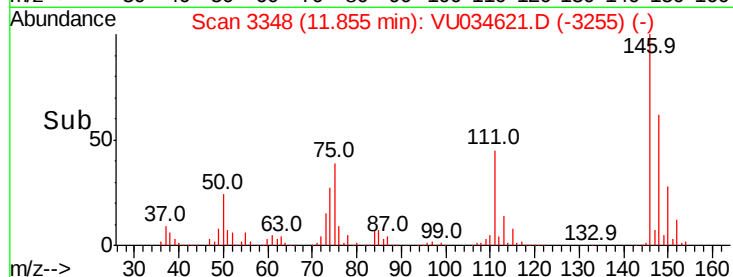
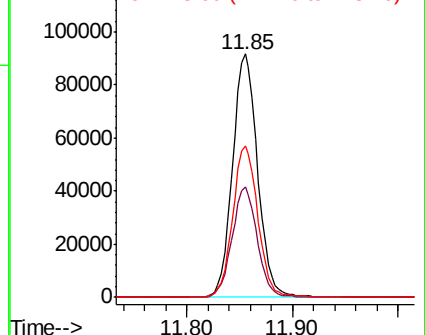


Abundance

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: 10.564 ug/L

RT: 12.63 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

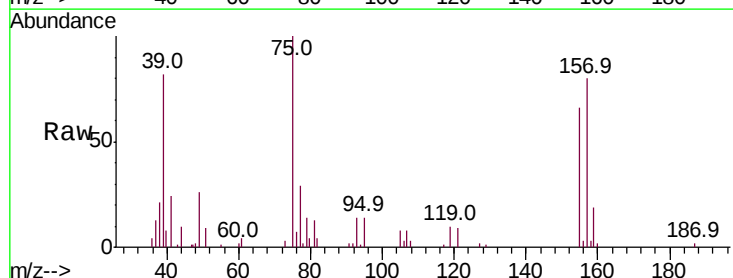
Tgt Ion: 75 Resp: 14753

Ion Ratio Lower Upper

75 100

155 66.2 49.1 73.7

157 80.4 70.8 106.2

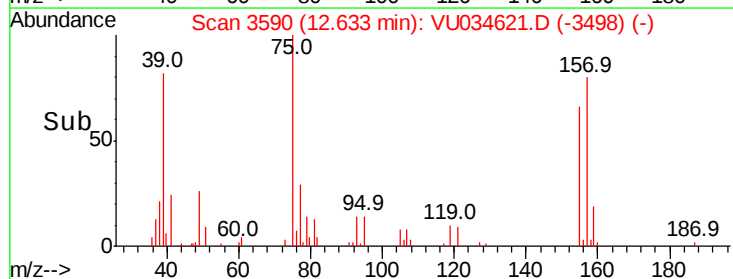
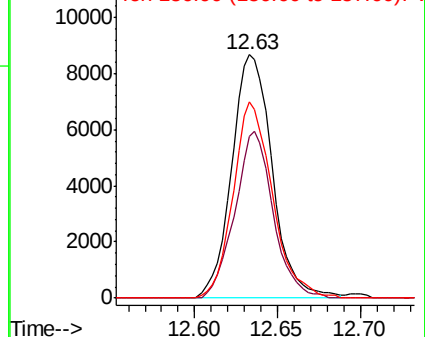


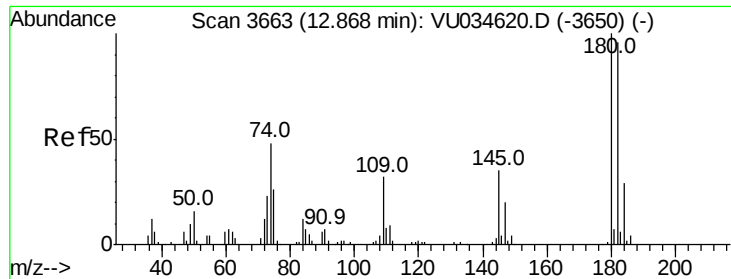
Abundance

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

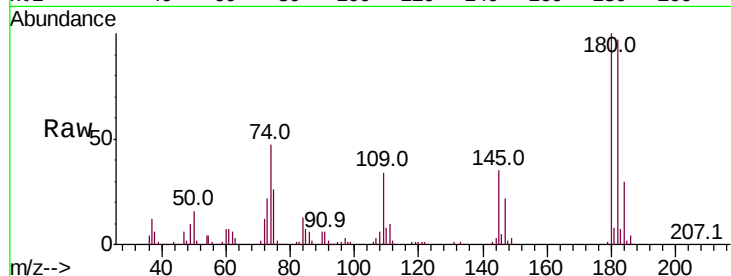




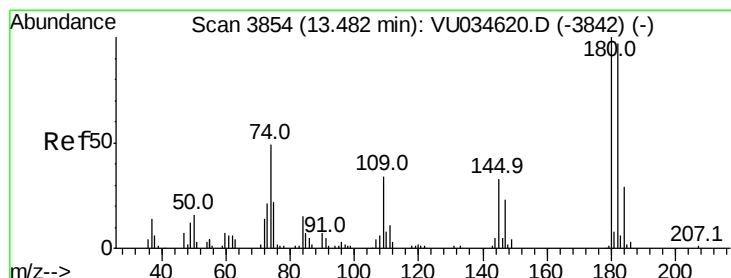
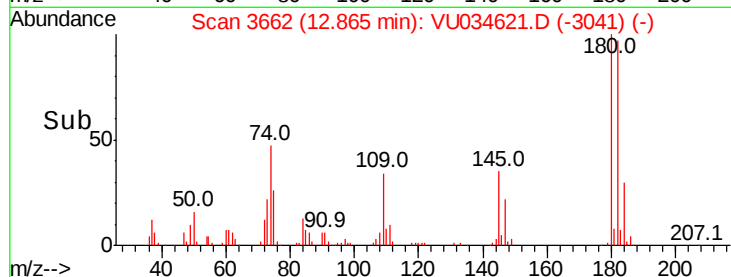
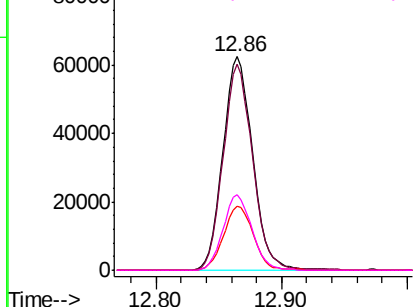
#67
 1,3,5-Trichlorobenzene
 Concen: 10.434 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Instrument :
 MSVOA_U
 ClientSampleID :

Tot Ion:	180	Resp:	102566
Ion	Ratio	Lower	Upper
180	100		
182	95.4	74.5	111.7
184	30.0	23.4	35.2
145	34.4	27.0	40.4

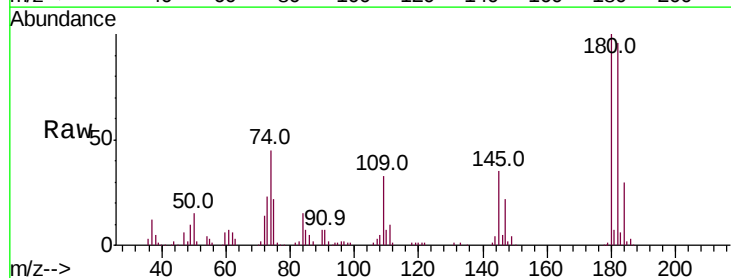


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

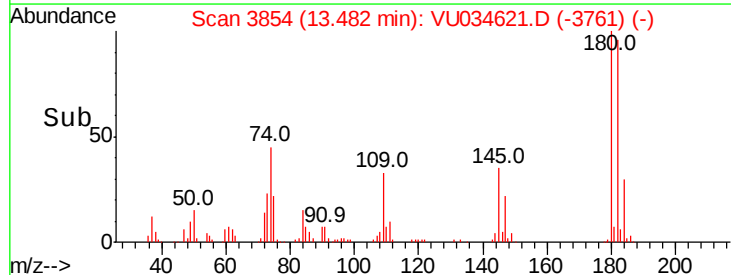
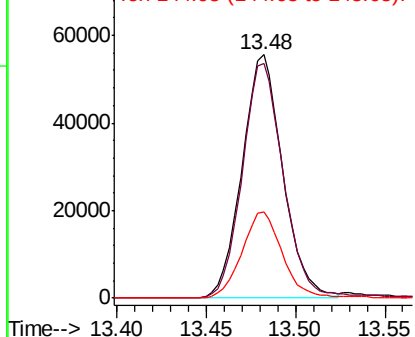


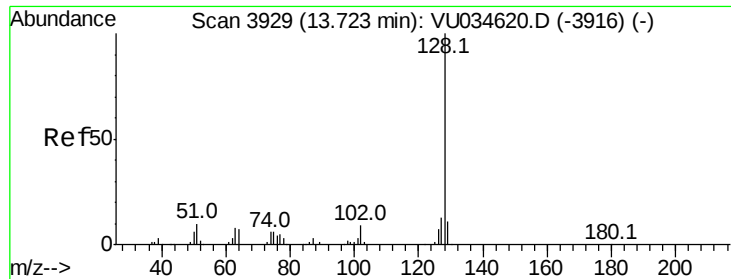
#68
 1,2,4-trichlorobenzene
 Concen: 11.273 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034621.D
 Acq: 17 Sep 2019 17:38

Tgt Ion:	180	Resp:	88816
Ion	Ratio	Lower	Upper
180	100		
182	98.2	76.9	115.3
145	35.6	26.2	39.4



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: 11.888 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

Instrument :

MSVOA_U

ClientSampleId :

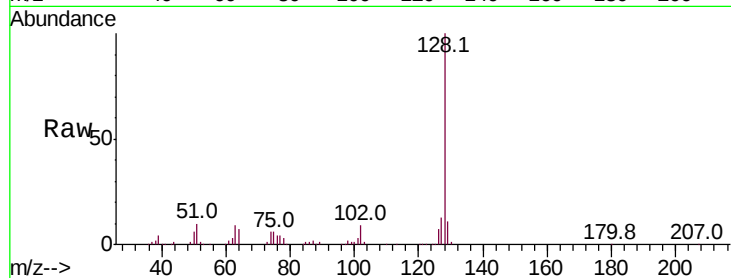
Tot Ion:128 Resp: 207541

Ion Ratio Lower Upper

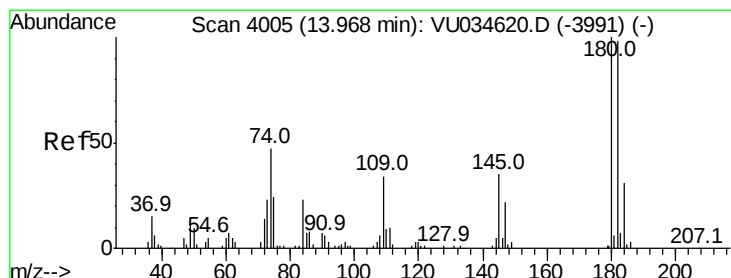
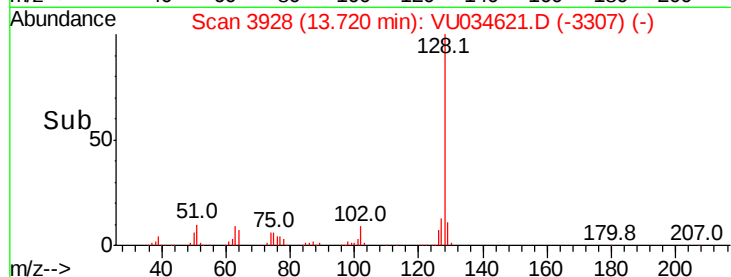
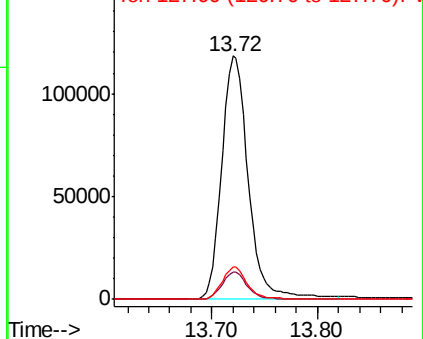
128 100

129 10.7 9.2 13.8

127 12.7 10.7 16.1



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: 11.073 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. -0.00 min

Lab File: VU034621.D

Acq: 17 Sep 2019 17:38

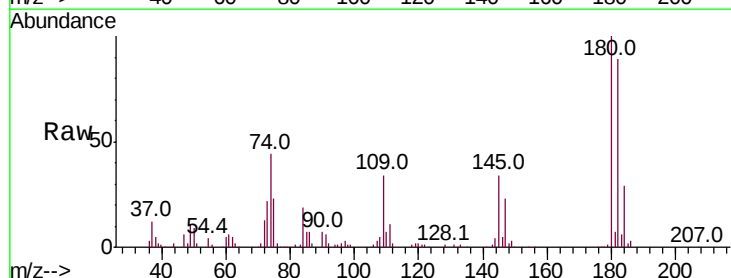
Tgt Ion:180 Resp: 83652

Ion Ratio Lower Upper

180 100

182 90.1 76.6 114.8

145 35.2 28.9 43.3



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

