

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050120\
 Data File : VU037994.D
 Acq On : 01 May 2020 17:33
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 02 00:12:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM043020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat May 02 00:09:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	690196	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	689965	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	336568	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	234160	38.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.14%
7) Chloroethane-d5	1.93	69	204314	41.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.74%
11) 1,1-Dichloroethene-d2	2.59	63	415668	41.86	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.72%
21) 2-Butanone-d5	4.66	46	432623	91.18	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.18%
24) Chloroform-d	5.10	84	417636	44.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.84%
26) 1,2-Dichloroethane-d4	5.74	65	288627	44.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.40%
32) Benzene-d6	5.76	84	860979	42.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.68%
36) 1,2-Dichloropropane-d6	6.72	67	294330	43.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.30%
41) Toluene-d8	7.92	98	788208	42.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.50%
43) trans-1,3-Dichloropropene-	8.20	79	140381	44.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.80%
47) 2-Hexanone-d5	8.65	63	260739	88.91	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.91%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	432980	44.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.12%
64) 1,2-Dichlorobenzene-d4	12.20	152	299622	42.58	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.16%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	256030	47.678	ug/L	99
3) Chloromethane	1.53	50	319329	46.922	ug/L	100
5) Vinyl chloride	1.62	62	325035	47.004	ug/L	98
6) Bromomethane	1.86	94	154436	46.889	ug/L	99
8) Chloroethane	1.94	64	199543	47.981	ug/L	99
9) Trichlorofluoromethane	2.15	101	345650	48.093	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	215449	48.776	ug/L	99
12) 1,1-Dichloroethene	2.60	96	215609	47.697	ug/L	98
13) Acetone	2.65	43	289086	94.590	ug/L	99
14) Carbon disulfide	2.82	76	673049	44.949	ug/L	99
15) Methyl Acetate	2.98	43	317067	47.649	ug/L	99
16) Methylene chloride	3.08	84	256147	48.072	ug/L	99
17) trans-1,2-Dichloroethene	3.38	96	228755	46.871	ug/L	98
18) Methyl tert-butyl Ether	3.40	73	786899	48.458	ug/L	100
19) 1,1-Dichloroethane	3.91	63	469867	48.329	ug/L	98
20) cis-1,2-Dichloroethene	4.71	96	263124	48.759	ug/L	98
22) 2-Butanone	4.74	43	472248	95.472	ug/L	100

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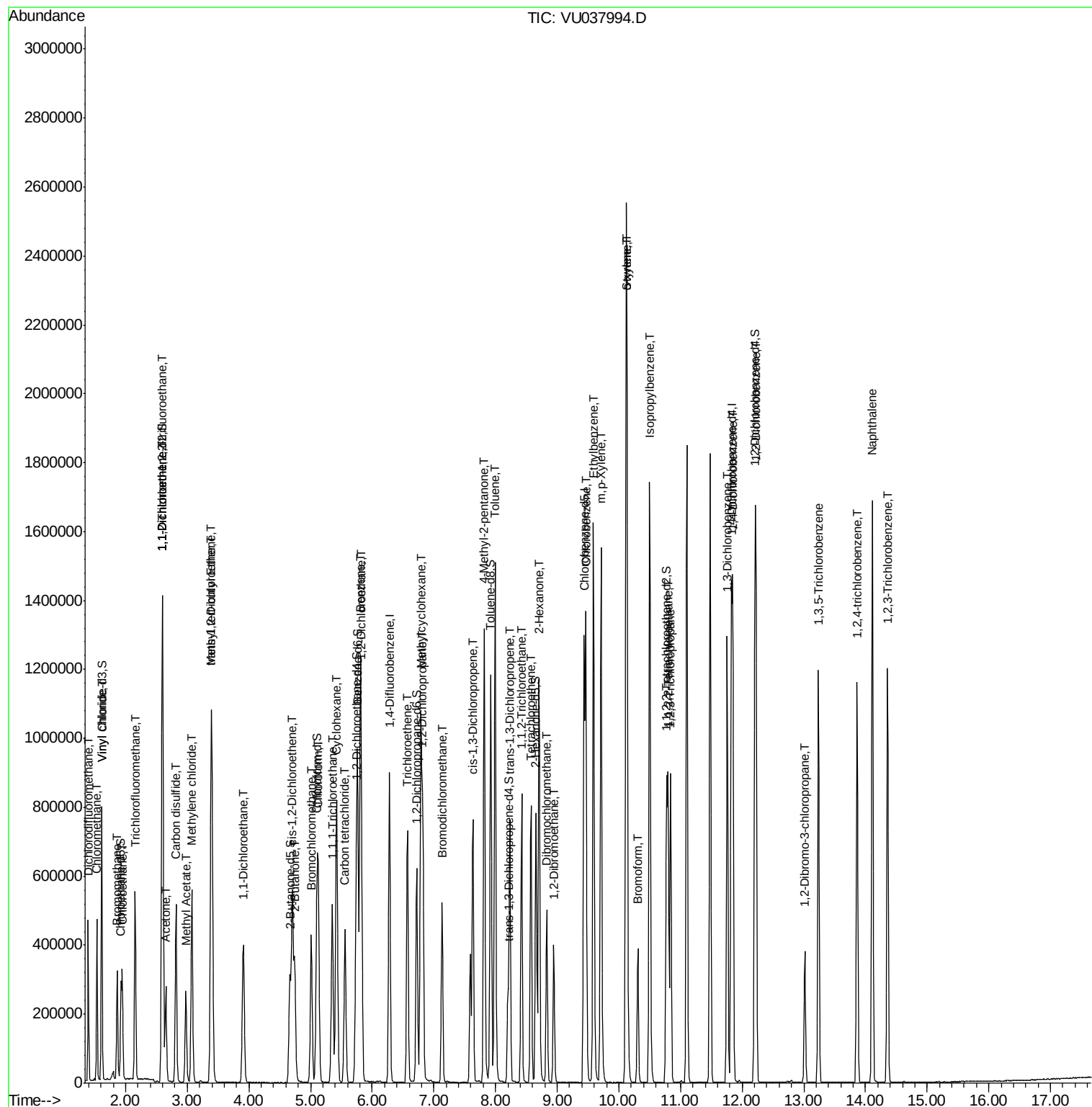
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	124472	49.036	ug/L	99
25) Chloroform	5.12	83	454864	48.740	ug/L	99
27) 1,2-Dichloroethane	5.83	62	373042	48.340	ug/L	99
29) Cyclohexane	5.42	56	427627	47.432	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	369095	48.125	ug/L	100
31) Carbon tetrachloride	5.56	117	291175	48.094	ug/L	100
33) Benzene	5.81	78	1023428	47.449	ug/L	100
34) Trichloroethene	6.57	95	247336	47.289	ug/L	99
35) Methylcyclohexane	6.79	83	421857	48.016	ug/L	98
37) 1,2-Dichloropropane	6.82	63	278731	48.335	ug/L	100
38) Bromodichloromethane	7.13	83	334471	47.769	ug/L	99
39) cis-1,3-Dichloropropene	7.63	75	435250	49.238	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	887663	95.003	ug/L	99
42) Toluene	7.99	91	1092762	48.222	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	408004	49.437	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	250781	48.016	ug/L	99
46) Tetrachloroethene	8.57	164	171328	44.866	ug/L	96
48) 2-Hexanone	8.71	43	741533	96.303	ug/L	98
49) Dibromochloromethane	8.83	129	247732	49.183	ug/L	97
50) 1,2-Dibromoethane	8.94	107	264036	47.061	ug/L	98
51) Chlorobenzene	9.47	112	677202	47.995	ug/L	99
52) Ethylbenzene	9.59	91	1215729	48.397	ug/L	100
53) m,p-Xylene	9.71	106	463876	48.635	ug/L	98
54) o-xylene	10.12	106	456625	48.626	ug/L	99
55) Styrene	10.13	104	776366	48.673	ug/L	100
56) Isopropylbenzene	10.50	105	1180681	48.830	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	428562	45.962	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	376949	47.143	ug/L	99
61) Bromoform	10.31	173	166686	46.317	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	506118	46.968	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	511941	47.018	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	504744	46.432	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	101322	44.654	ug/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	351302	47.821	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	334578	47.515	ug/L	99
69) Naphthalene	14.11	128	1286792	47.632	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	338790	48.887	ug/L	100

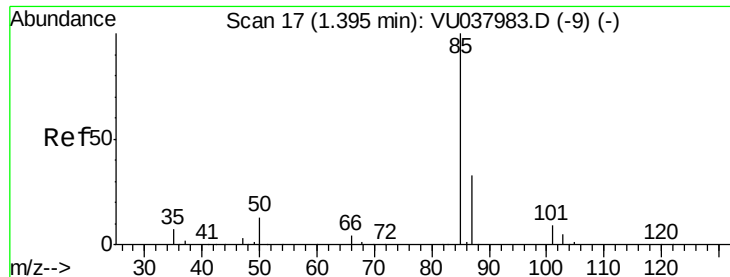
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 47.678 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

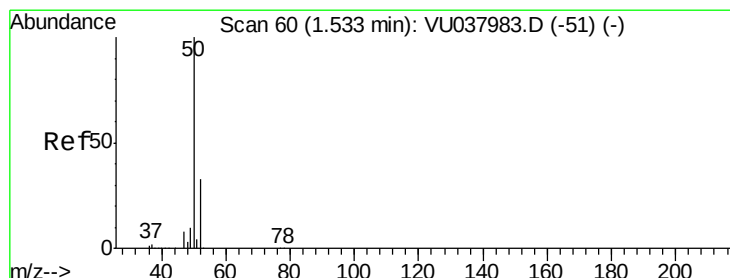
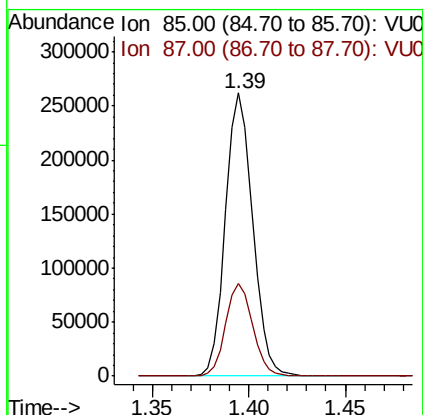
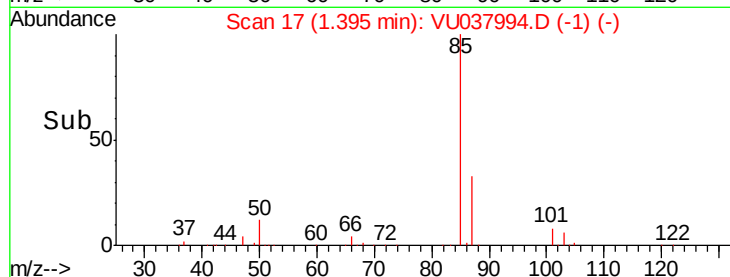
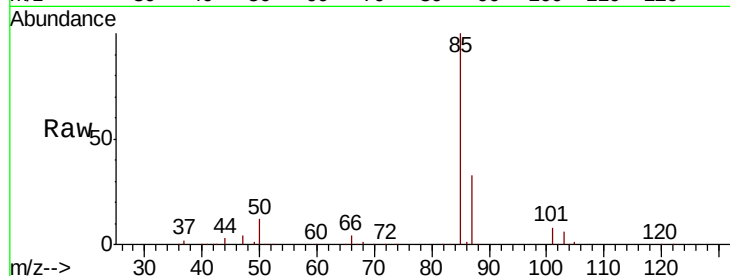
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 256030

Ion Ratio Lower Upper

85 100

87 32.4 25.4 38.2



#3

Chloromethane

Concen: 46.922 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037994.D

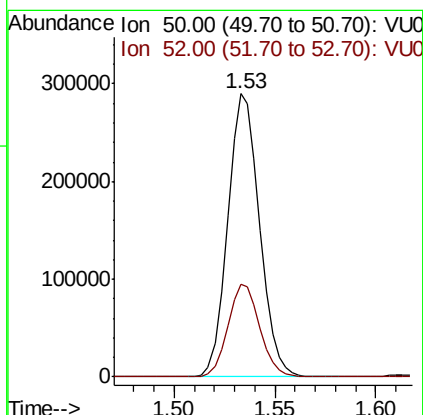
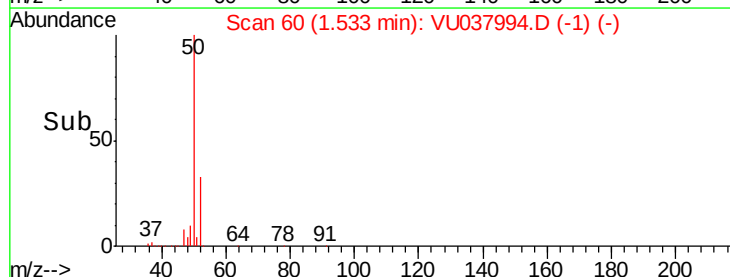
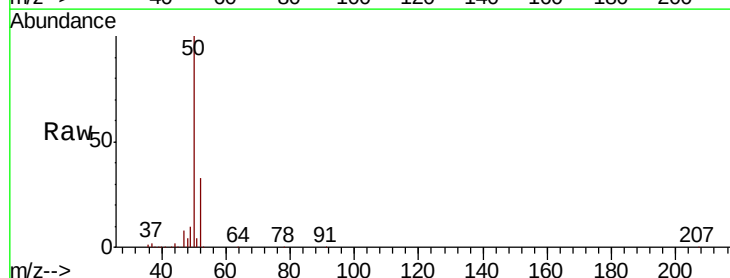
Acq: 01 May 2020 17:33

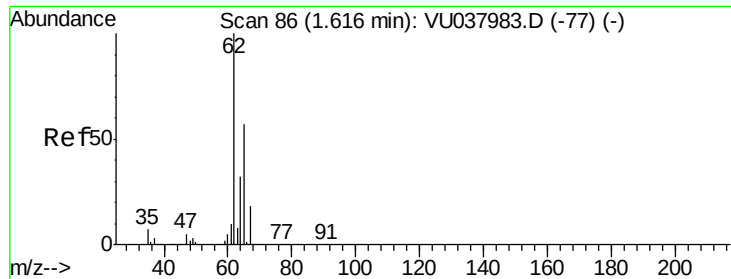
Tgt Ion: 50 Resp: 319329

Ion Ratio Lower Upper

50 100

52 32.6 22.9 42.5





#5

Vinyl chloride

Concen: 47.004 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

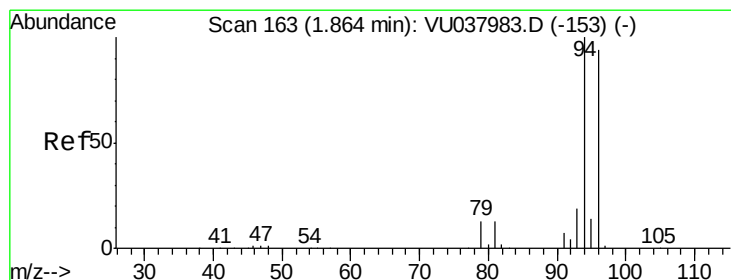
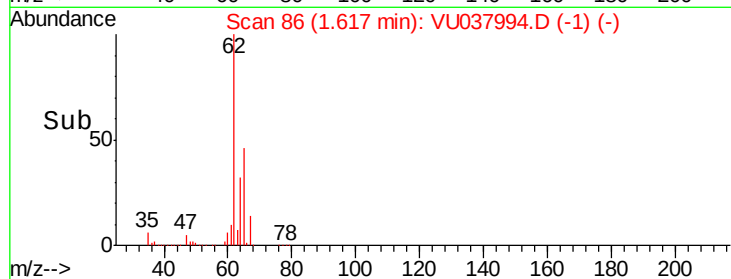
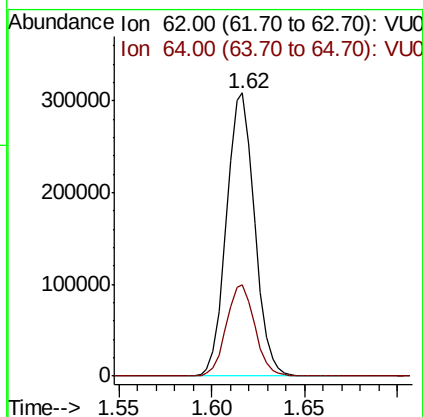
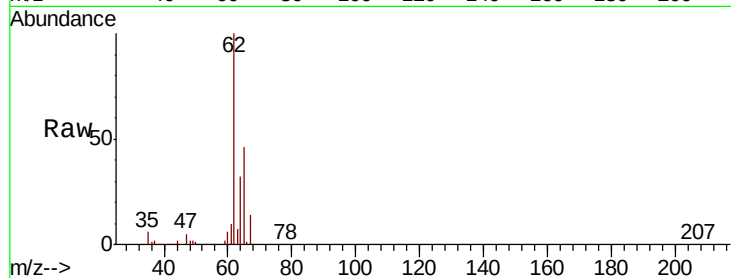
ClientSampleId :

Tot Ion: 62 Resp: 325035

Ion Ratio Lower Upper

62 100

64 32.2 23.2 43.2



#6

Bromomethane

Concen: 46.889 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU037994.D

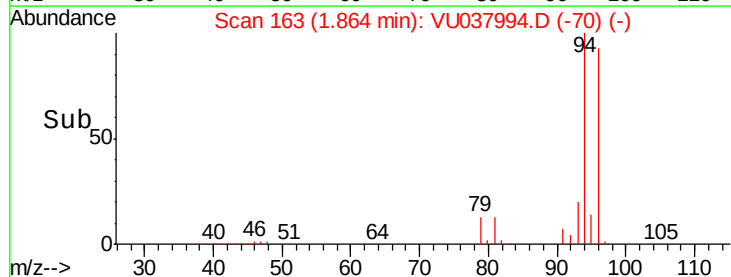
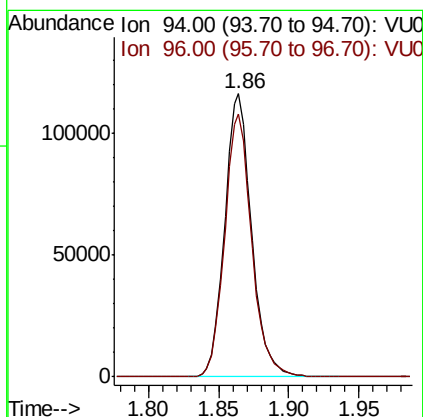
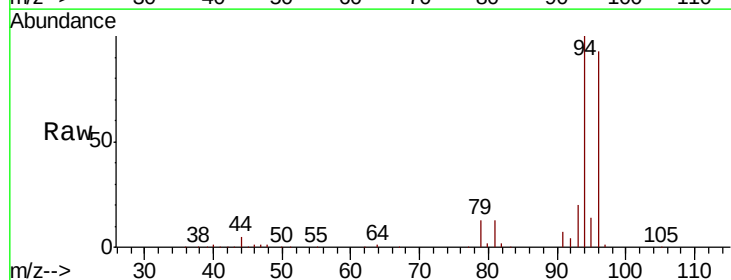
Acq: 01 May 2020 17:33

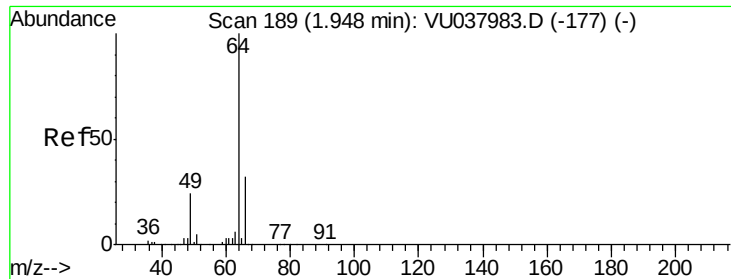
Tgt Ion: 94 Resp: 154436

Ion Ratio Lower Upper

94 100

96 92.8 65.9 122.5





#8

Chloroethane

Concen: 47.981 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

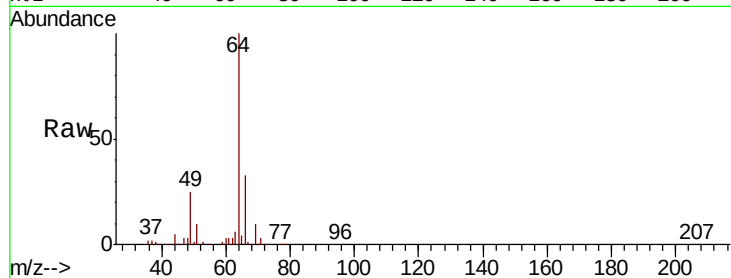
ClientSampleId :

Tot Ion: 64 Resp: 199543

Ion Ratio Lower Upper

64 100

66 32.7 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU037983.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU037983.D (-177) (-)

1.94

150000

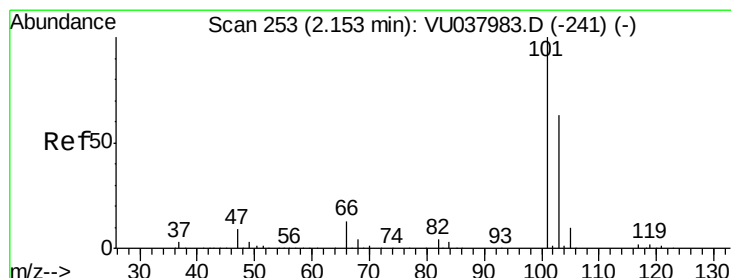
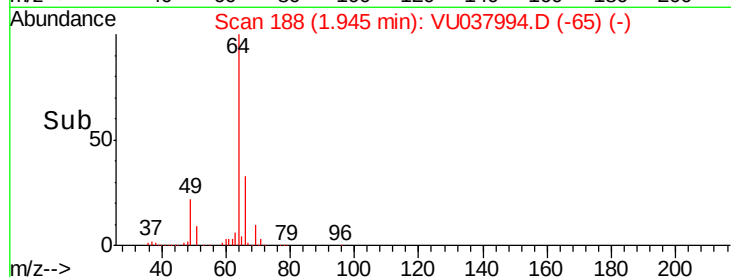
100000

50000

0

1.85 1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 48.093 ug/L

RT: 2.15 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU037994.D

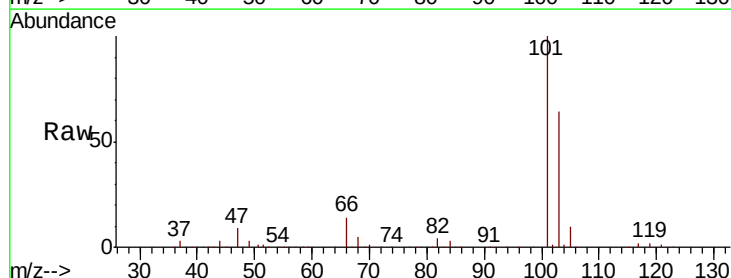
Acq: 01 May 2020 17:33

Tgt Ion:101 Resp: 345650

Ion Ratio Lower Upper

101 100

103 64.2 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU037983.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU037983.D (-241) (-)

2.15

250000

200000

150000

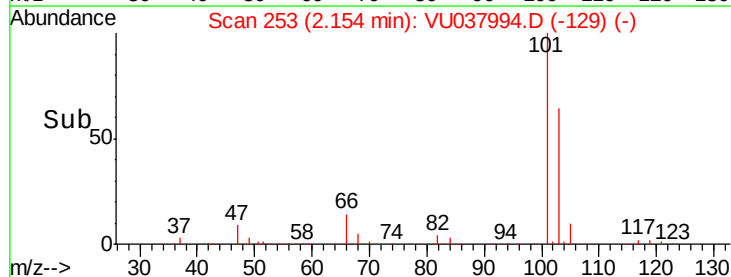
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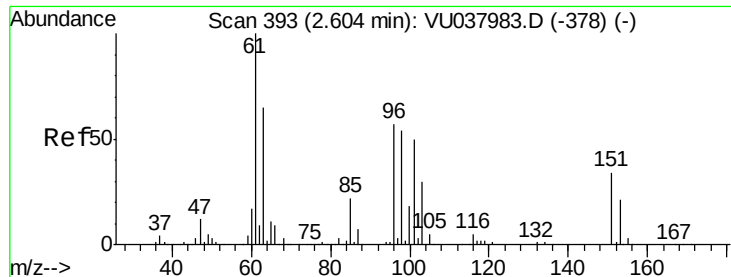
50000

0

2.10 2.15 2.20 2.25

Time-->





#10

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

Concen: 48.776 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

ClientSampled :

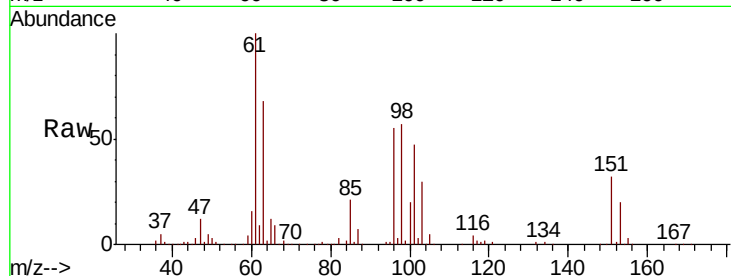
Tot Ion:101 Resp: 215449

Ion Ratio Lower Upper

101 100

85 44.0 34.7 52.1

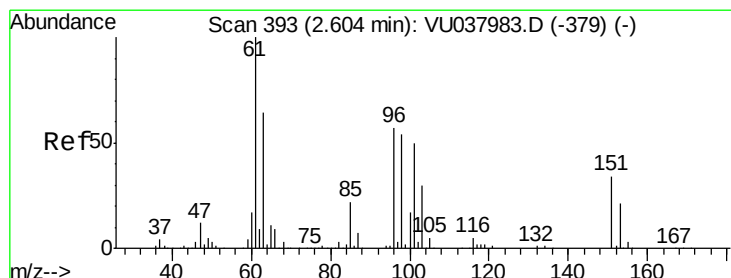
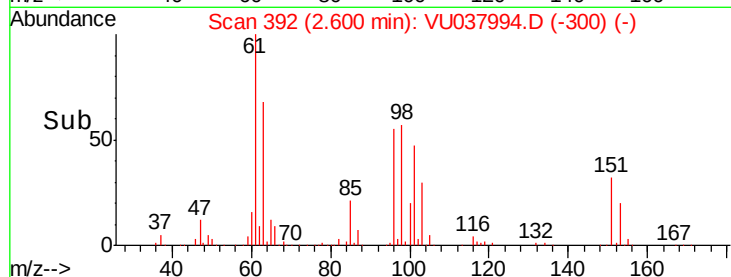
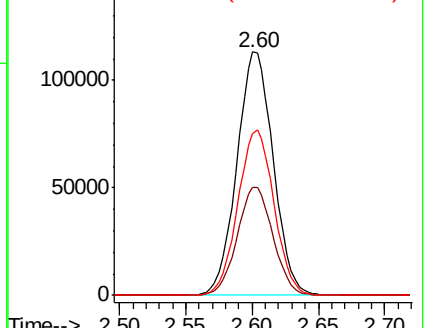
151 67.6 53.4 80.2



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: 47.697 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

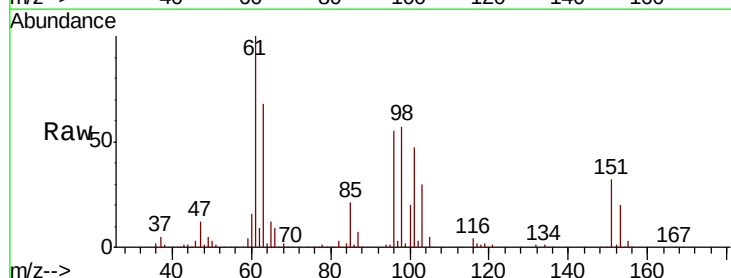
Tgt Ion: 96 Resp: 215609

Ion Ratio Lower Upper

96 100

61 180.3 126.1 234.3

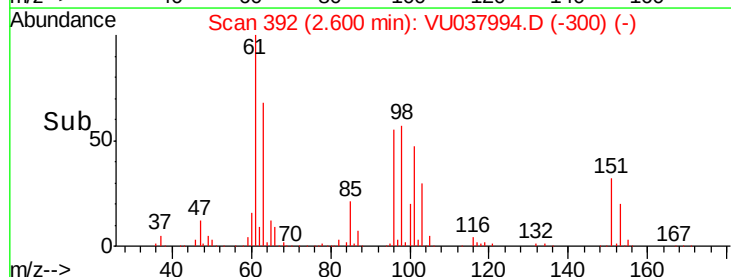
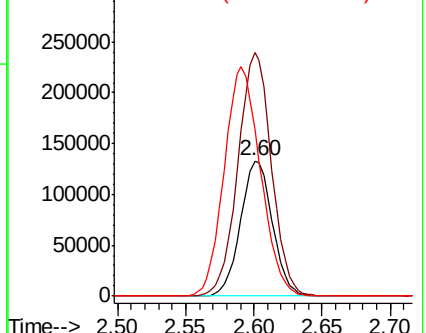
63 123.2 83.4 154.8

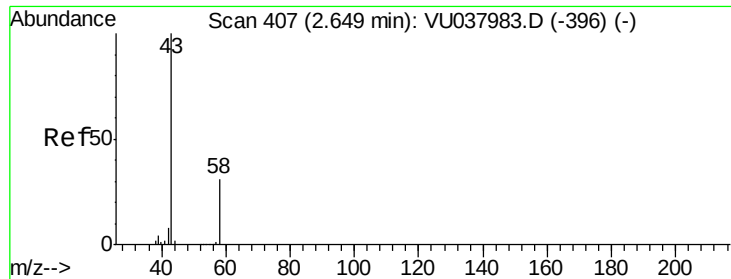


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 94.590 ug/L

RT: 2.65 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

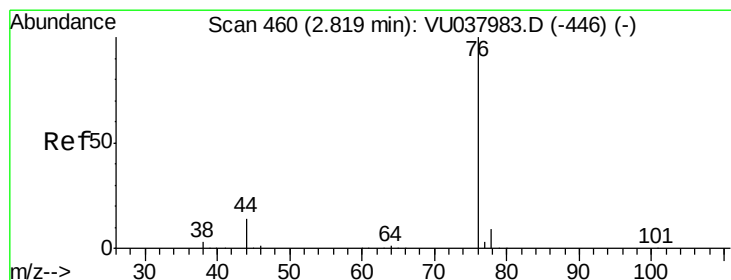
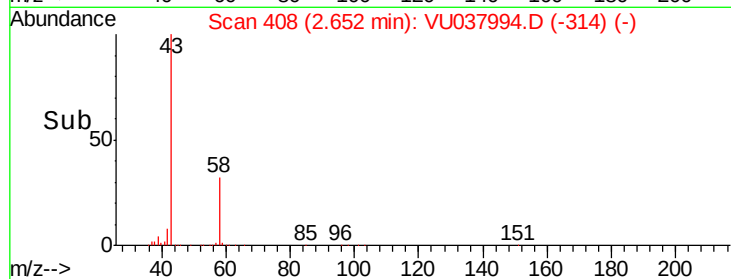
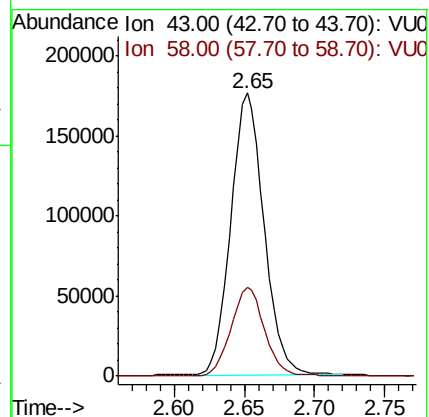
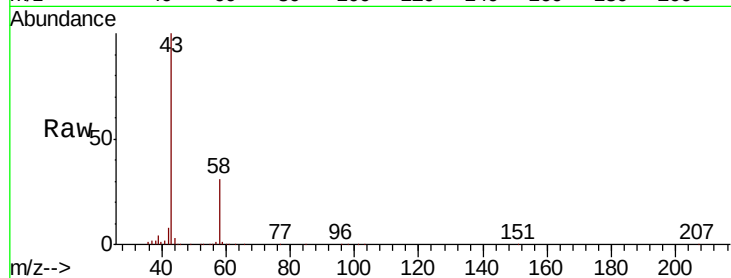
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 289086

Ion Ratio Lower Upper

43 100

58 31.9 0.0 64.4



#14

Carbon disulfide

Concen: 44.949 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037994.D

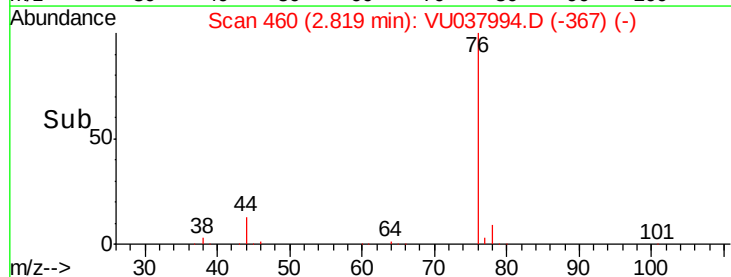
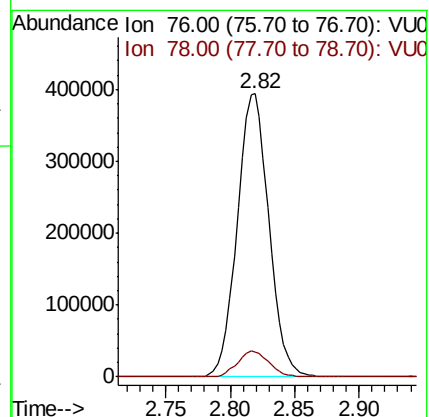
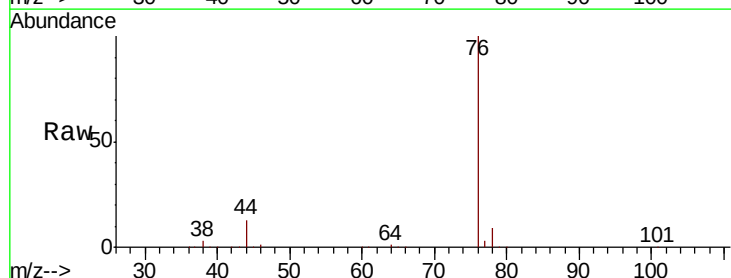
Acq: 01 May 2020 17:33

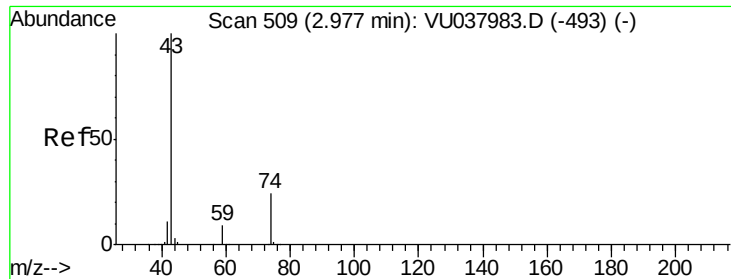
Tgt Ion: 76 Resp: 673049

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.4

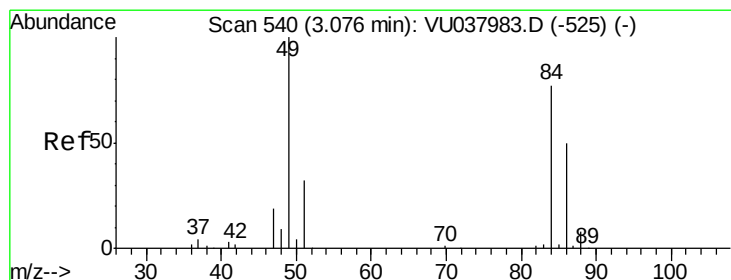
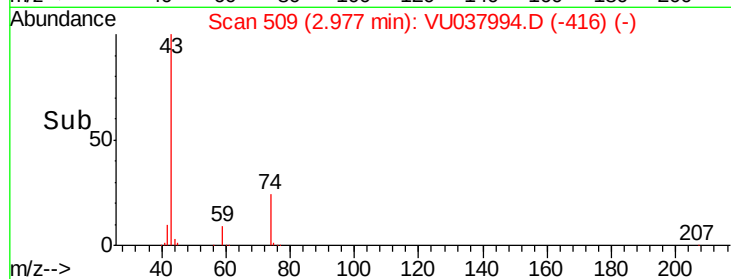
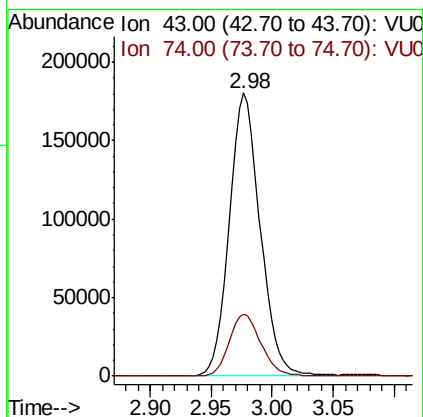
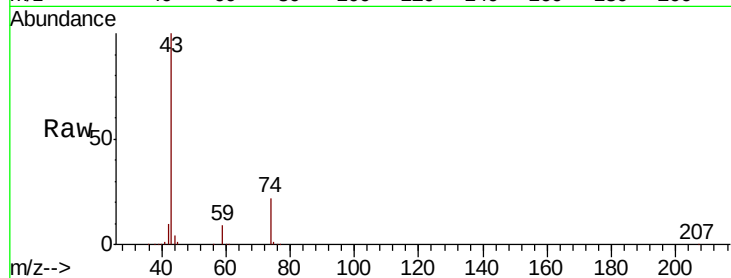




#15
Methvl Acetate
Concen: 47.649 ug/L
RT: 2.98 min Scan# 509
Delta R.T. 0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

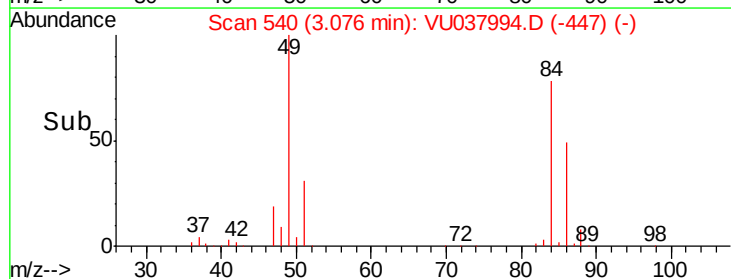
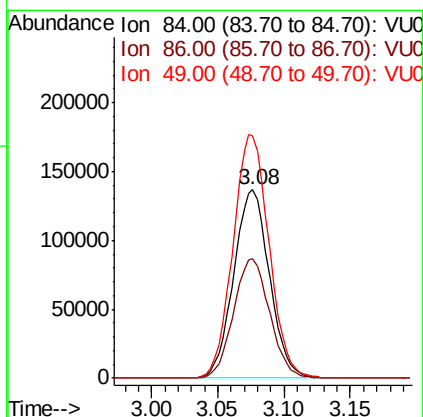
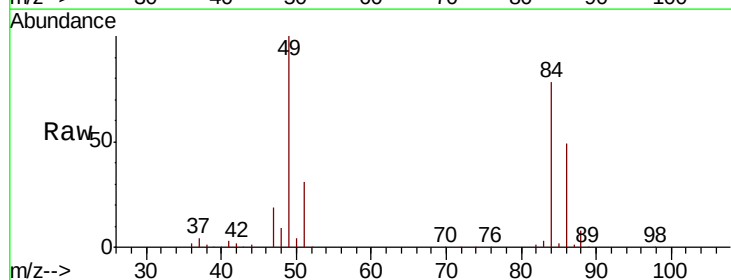
Instrument :
MSVOA_U
ClientSampleId :

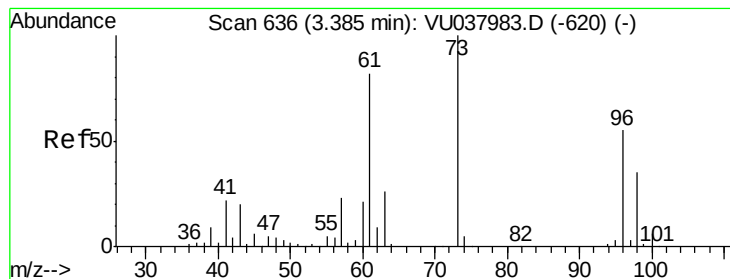
Tot Ion: 43 Resp: 317067
Ion Ratio Lower Upper
43 100
74 22.6 18.6 27.8



#16
Methylene chloride
Concen: 48.072 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

Tgt Ion: 84 Resp: 256147
Ion Ratio Lower Upper
84 100
86 63.4 45.1 83.9
49 128.6 91.2 169.4





#17

trans-1,2-Dichloroethene

Concen: 46.871 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

ClientSampled :

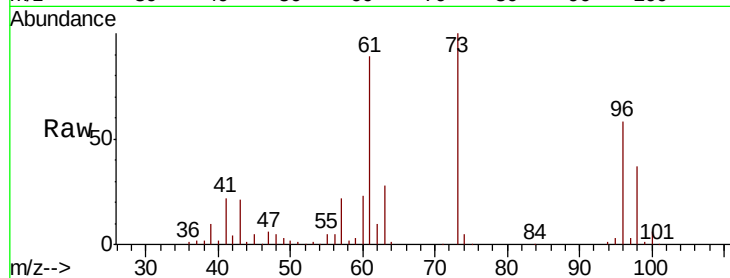
Tot Ion: 96 Resp: 228755

Ion Ratio Lower Upper

96 100

61 153.6 104.9 194.9

98 64.0 44.6 82.8

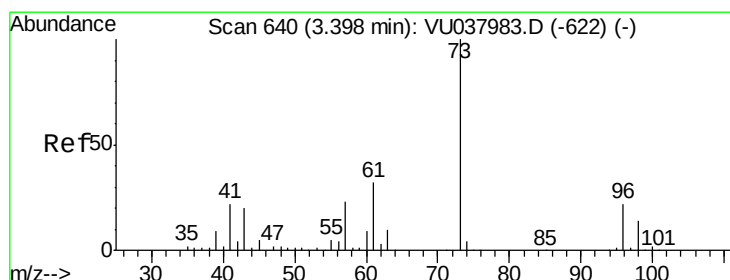
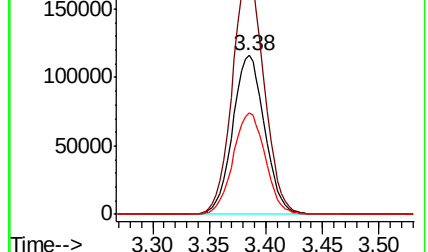
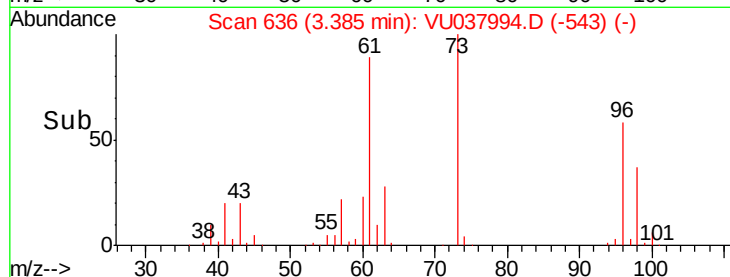


Abundance Ion 96.00 (95.70 to 96.70): VU037983.D (-620) (-)

Ion 61.00 (60.70 to 61.70): VU037983.D (-620) (-)

Ion 98.00 (97.70 to 98.70): VU037983.D (-620) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 48.458 ug/L

RT: 3.40 min Scan# 641

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

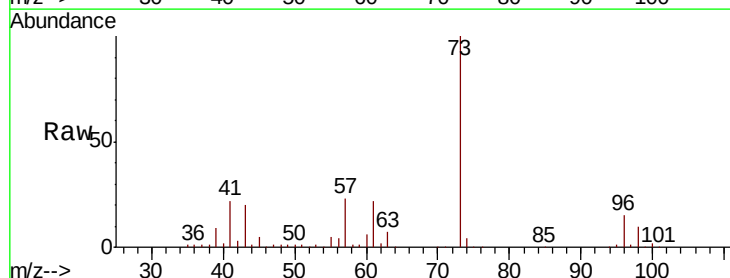
Tgt Ion: 73 Resp: 786899

Ion Ratio Lower Upper

73 100

43 20.4 16.3 24.5

57 22.9 18.4 27.6

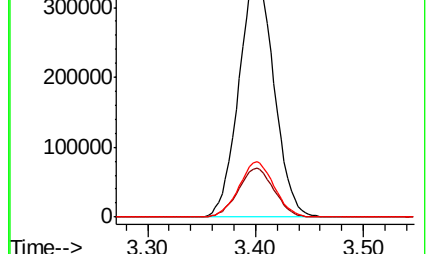
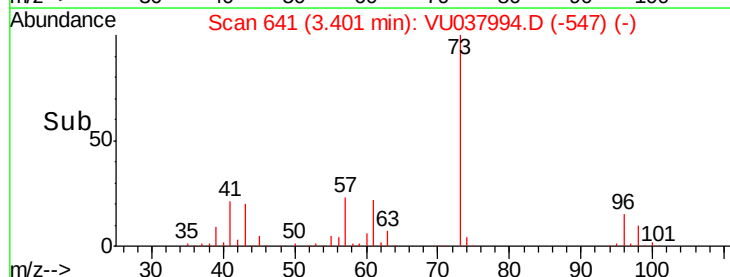


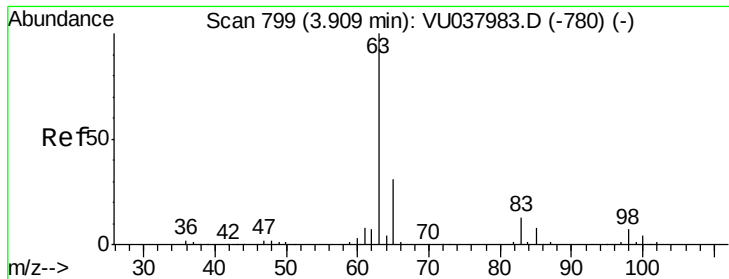
Abundance Ion 73.00 (72.70 to 73.70): VU037983.D (-622) (-)

Ion 43.00 (42.70 to 43.70): VU037983.D (-622) (-)

Ion 57.00 (56.70 to 57.70): VU037983.D (-622) (-)

Time-->

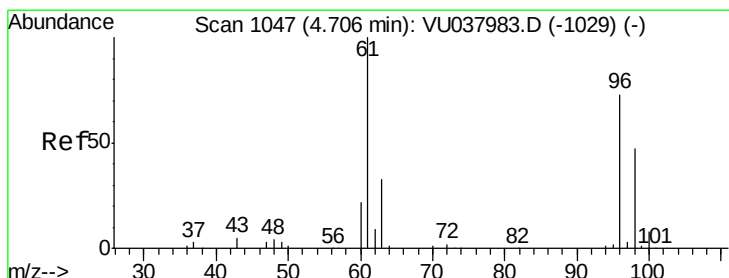
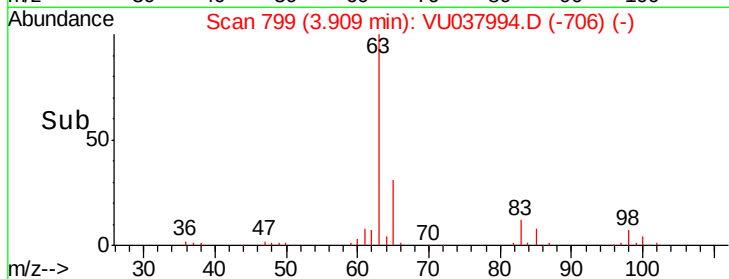
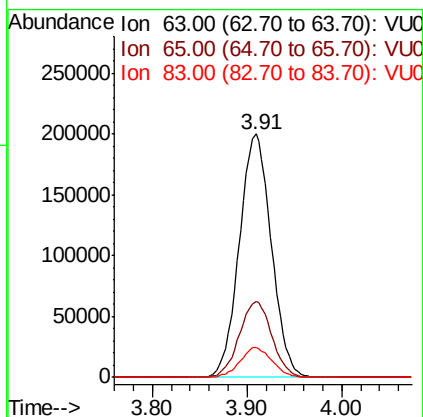
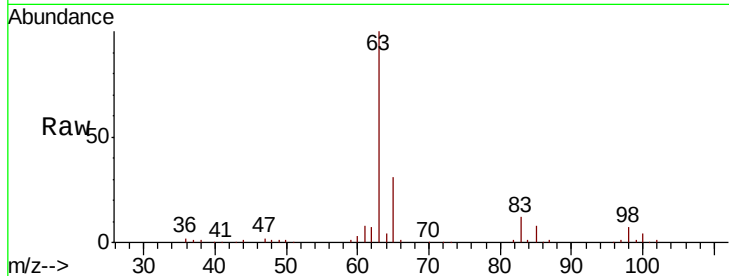




#19
 1,1-Dichloroethane
 Concen: 48.329 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

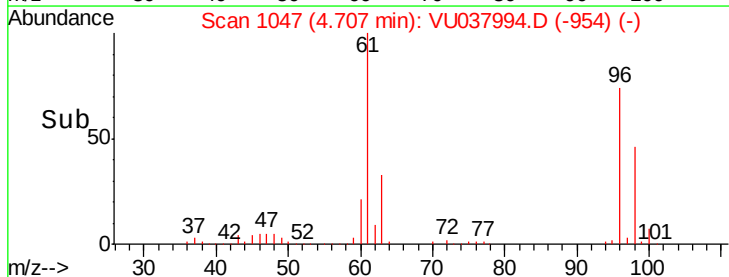
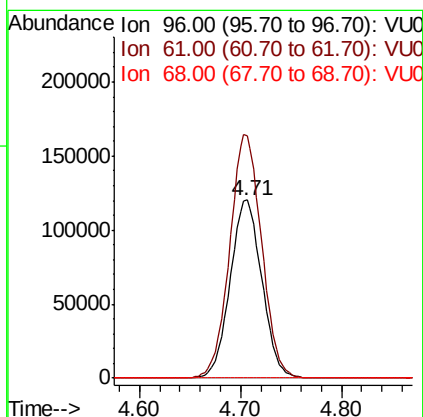
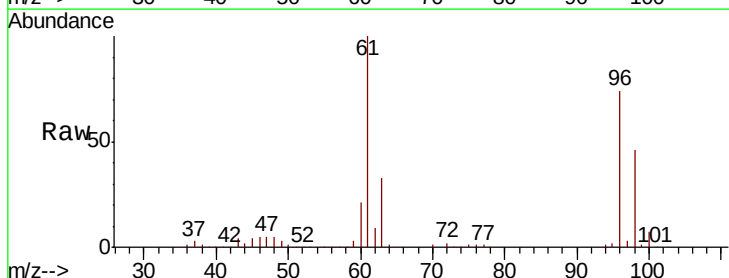
Instrument :
 MSVOA_U
 ClientSampled :

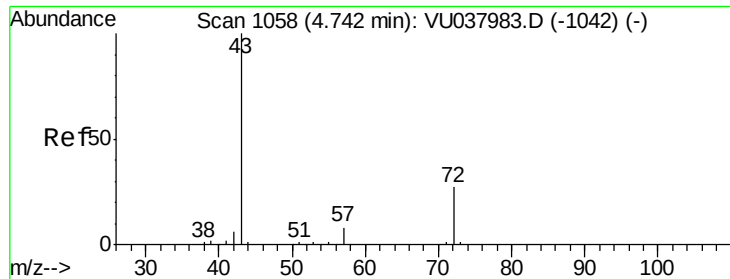
Tot Ion: 63 Resp: 469867
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.5 41.7
 83 12.3 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 48.759 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

Tgt Ion: 96 Resp: 263124
 Ion Ratio Lower Upper
 96 100
 61 135.9 93.9 174.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 95.472 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

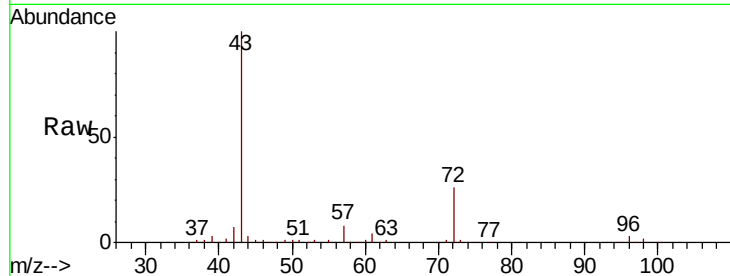
ClientSampled :

Tot Ion: 43 Resp: 472248

Ion Ratio Lower Upper

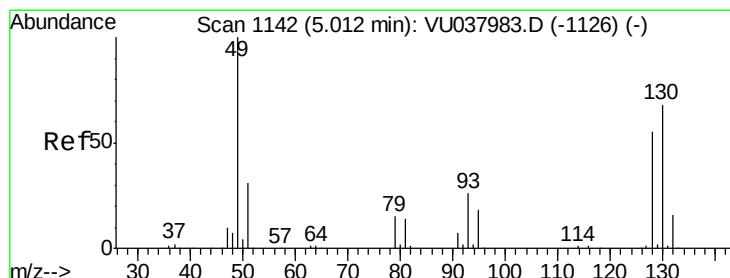
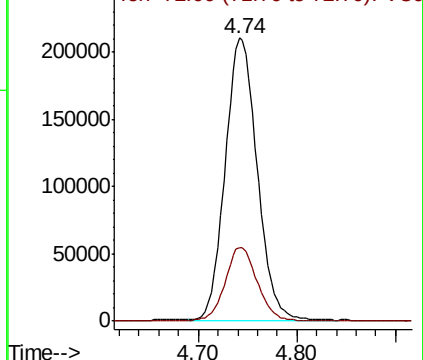
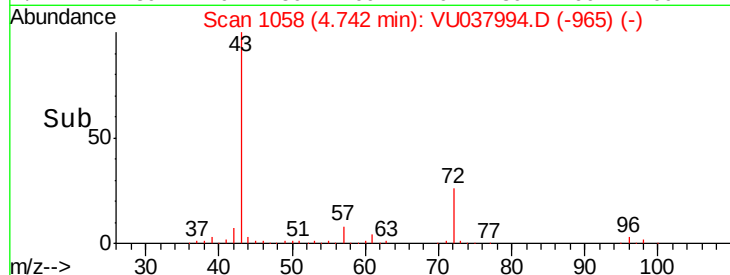
43 100

72 26.8 13.4 40.1



Abundance Ion 43.00 (42.70 to 43.70): VU037994.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU037994.D (-965) (-)



#23

Bromochloromethane

Concen: 49.036 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Tgt Ion: 128 Resp: 124472

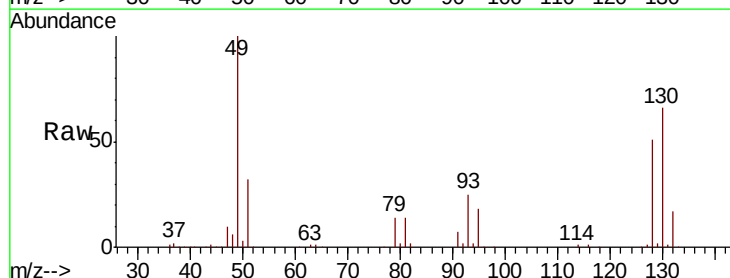
Ion Ratio Lower Upper

128 100

49 196.1 136.2 252.9

130 129.6 91.3 169.5

51 62.3 49.0 73.6

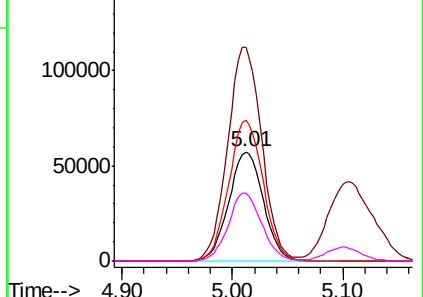
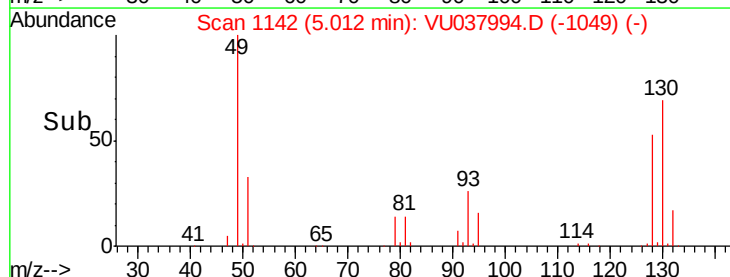


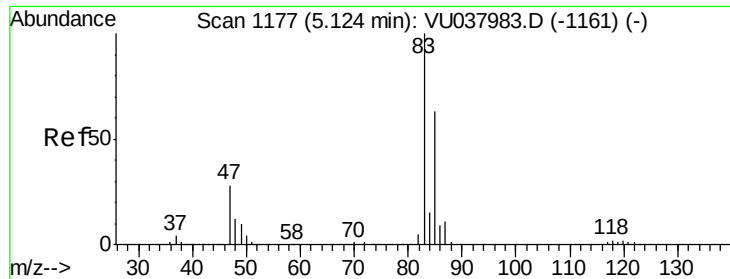
Abundance Ion 128.00 (127.70 to 128.70): VU037994.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037994.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037994.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037994.D (-1049) (-)

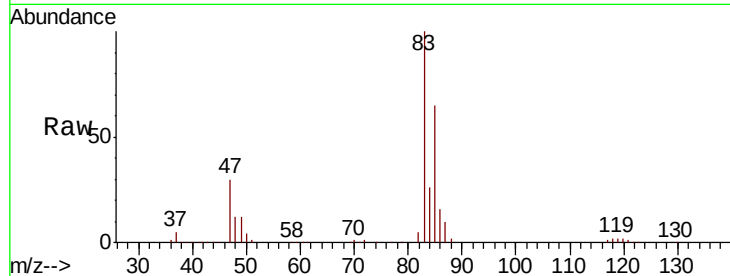




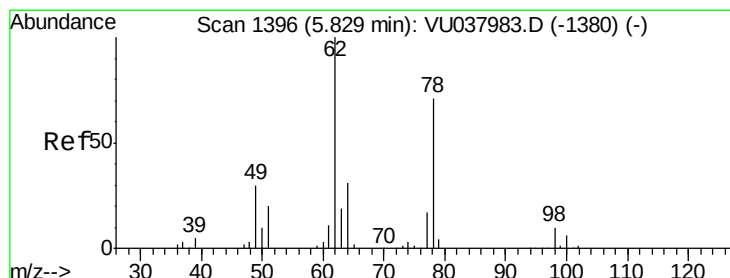
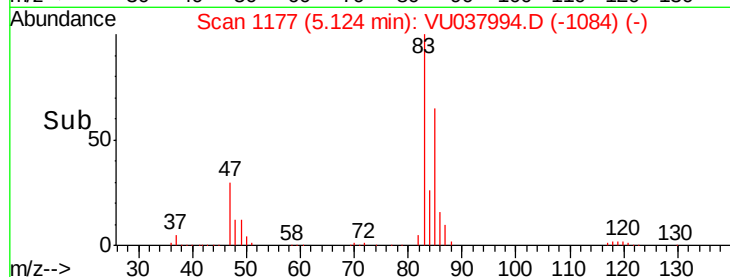
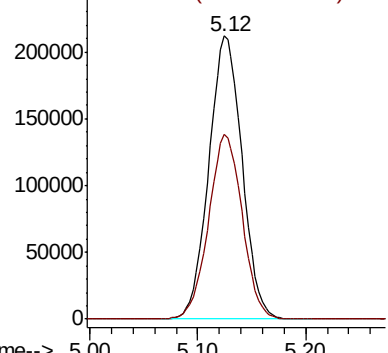
#25
Chloroform
Concen: 48.740 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 454864
Ion Ratio Lower Upper
83 100
85 65.2 45.0 83.6

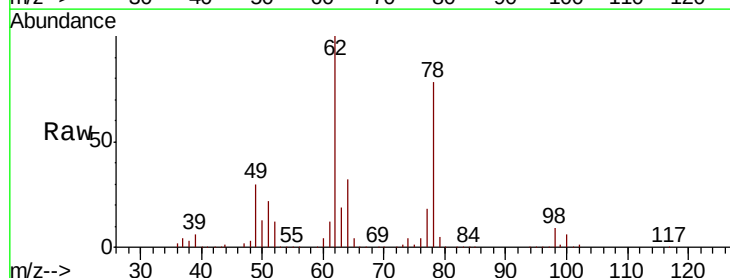


Abundance Ion 83.00 (82.70 to 83.70): VU037983.D (-1161) (-)
Ion 85.00 (84.70 to 85.70): VU037983.D (-1161) (-)

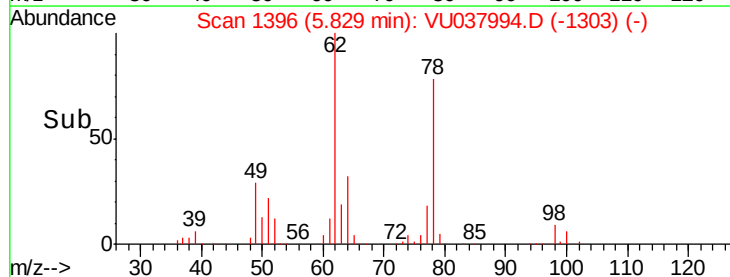
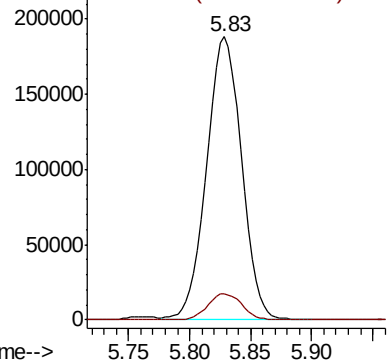


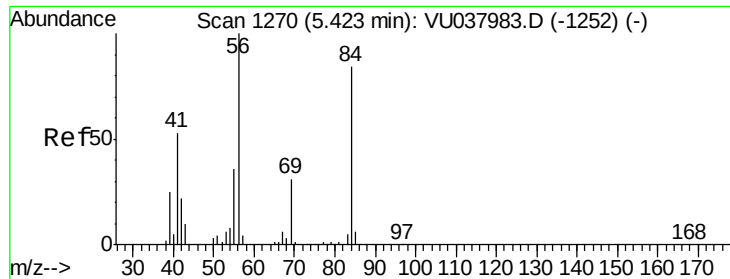
#27
1,2-Dichloroethane
Concen: 48.340 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

Tgt Ion: 62 Resp: 373042
Ion Ratio Lower Upper
62 100
98 9.3 7.6 11.4



Abundance Ion 62.00 (61.70 to 62.70): VU037983.D (-1380) (-)
Ion 98.00 (97.70 to 98.70): VU037983.D (-1380) (-)

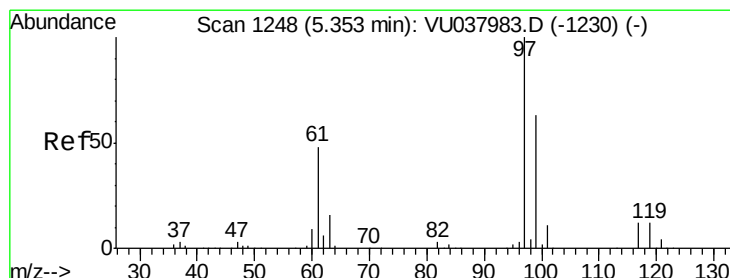
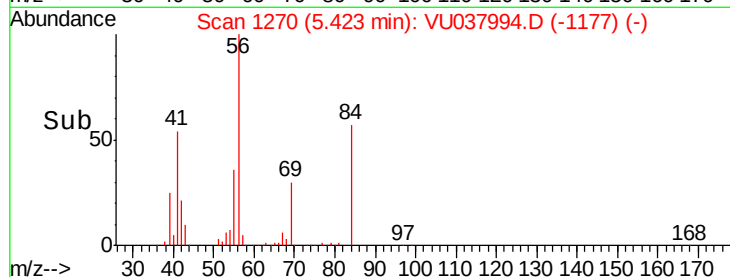
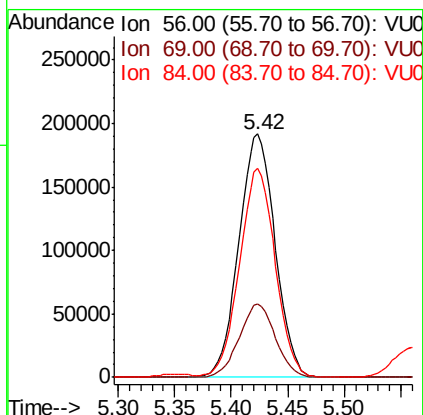
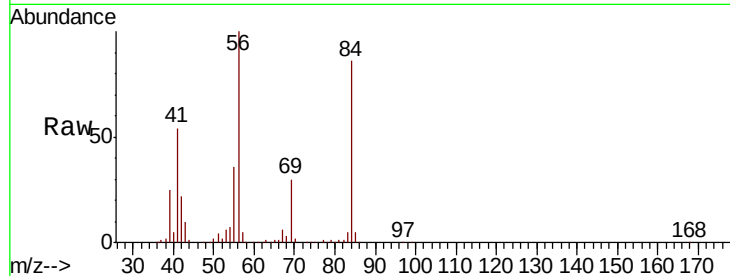




#29
Cyclohexane
Concen: 47.432 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

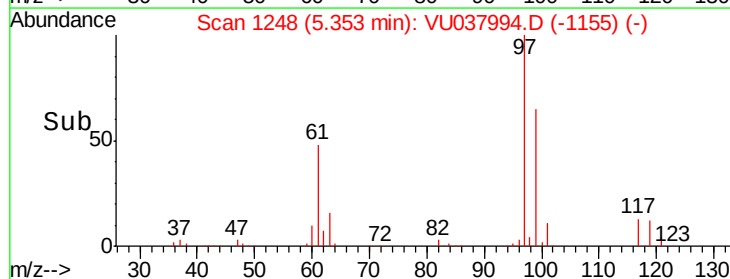
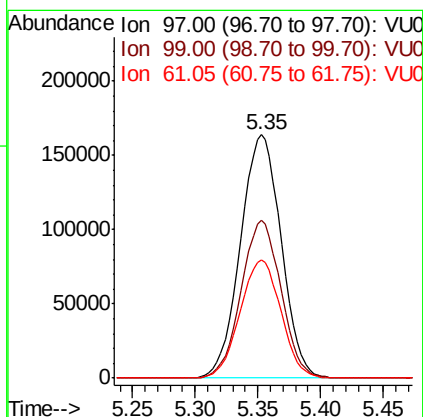
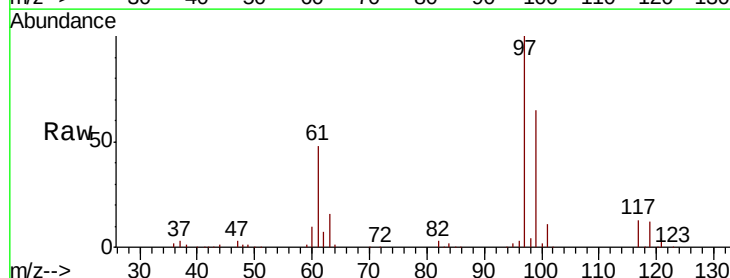
Instrument :
MSVOA_U
ClientSampled :

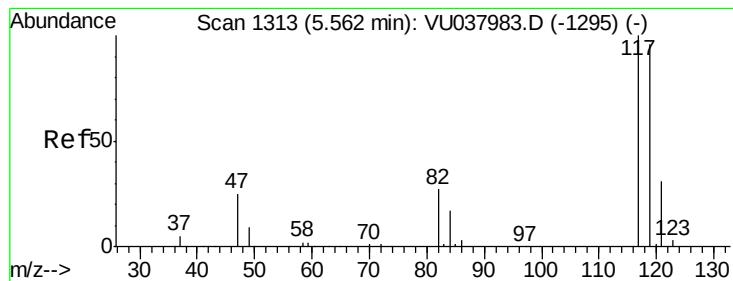
Tot Ion	56	Resp	427627
Ion Ratio	Lower	Upper	
56	100		
69	30.1	23.8	35.8
84	83.7	68.2	102.4



#30
1,1,1-Trichloroethane
Concen: 48.125 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

Tgt Ion	97	Resp	369095
Ion Ratio	Lower	Upper	
97	100		
99	63.5	50.5	75.7
61	48.8	38.8	58.2





#31

Carbon tetrachloride

Concen: 48.094 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

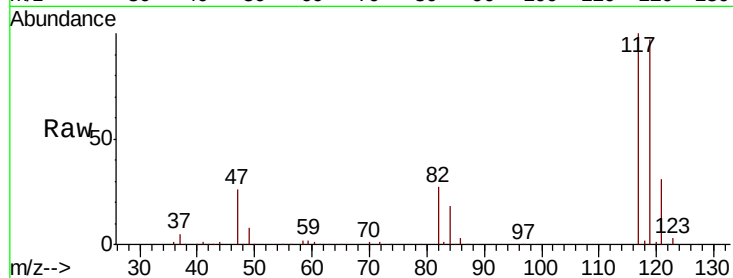
ClientSampleId :

Tot Ion:117 Resp: 291175

Ion Ratio Lower Upper

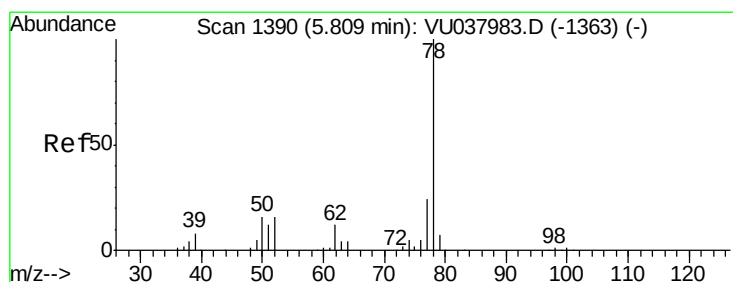
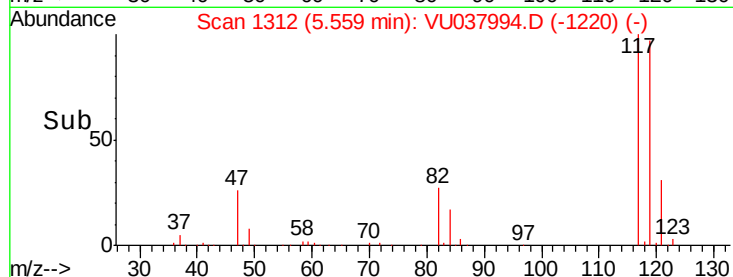
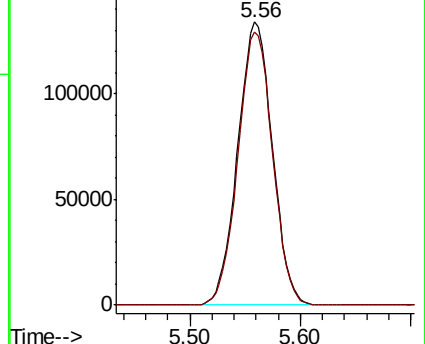
117 100

119 96.4 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 47.449 ug/L

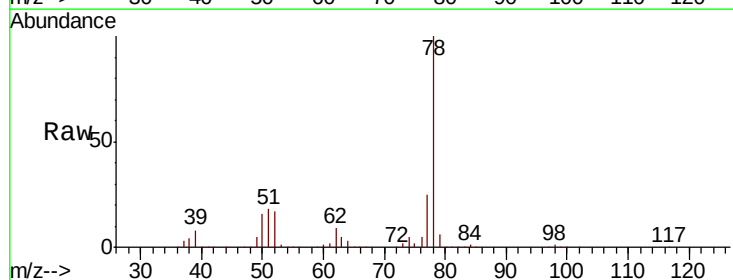
RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

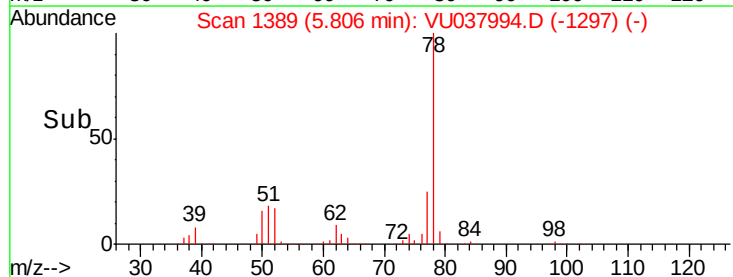
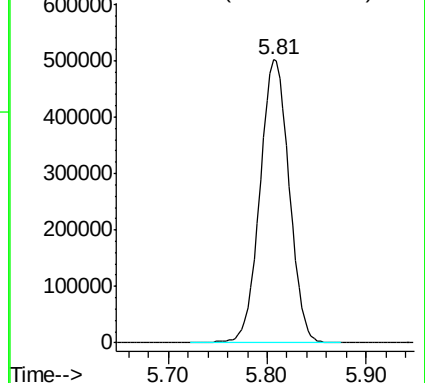
Lab File: VU037994.D

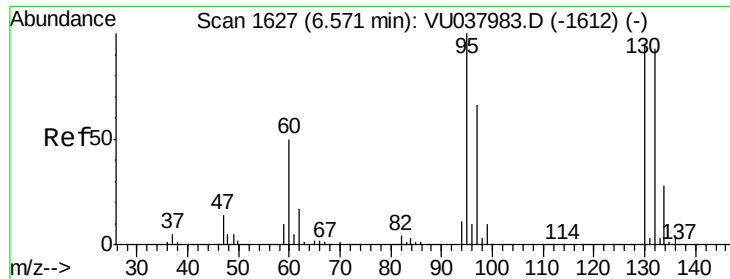
Acq: 01 May 2020 17:33

Tgt Ion: 78 Resp: 1023428



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.289 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 247336

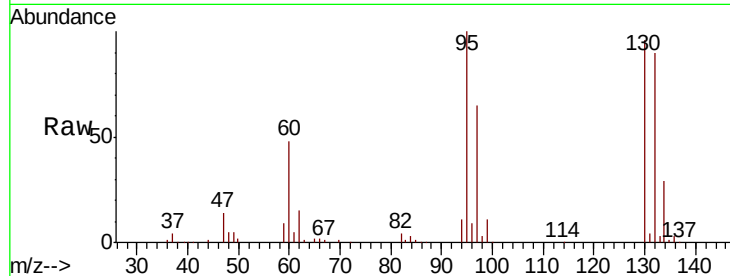
Ion Ratio Lower Upper

95 100

97 64.7 44.9 83.5

132 90.2 63.2 117.4

130 95.6 65.9 122.3

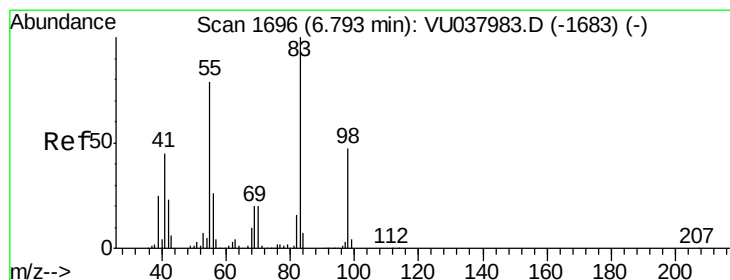
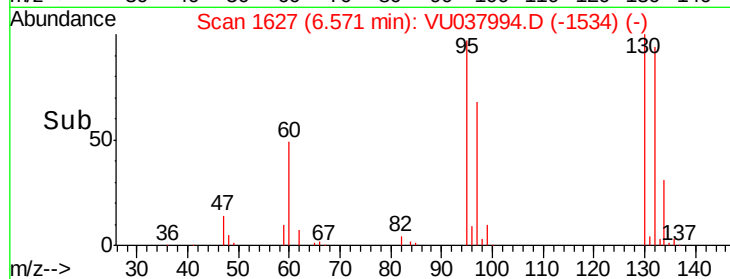
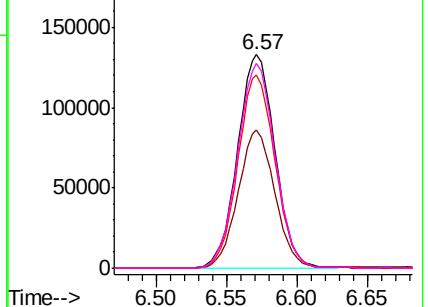


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.016 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

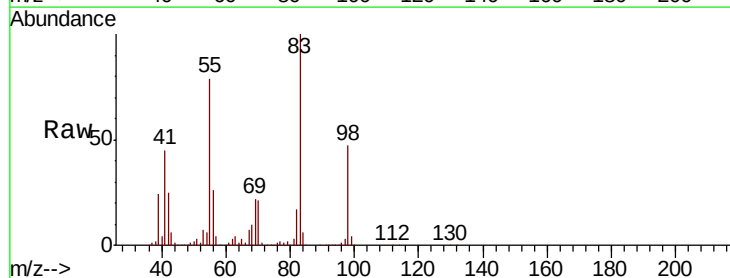
Tgt Ion: 83 Resp: 421857

Ion Ratio Lower Upper

83 100

55 78.8 64.2 96.4

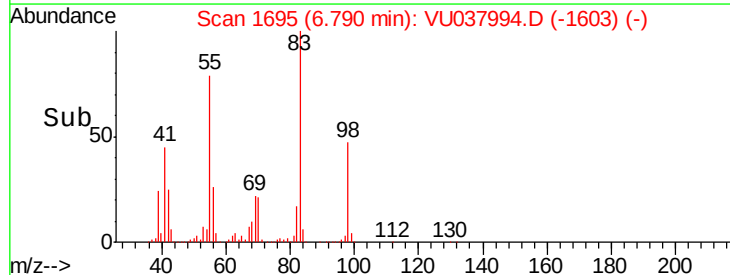
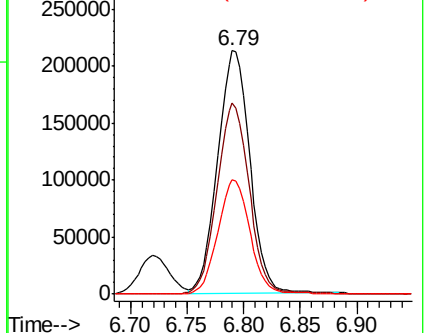
98 46.3 38.1 57.1

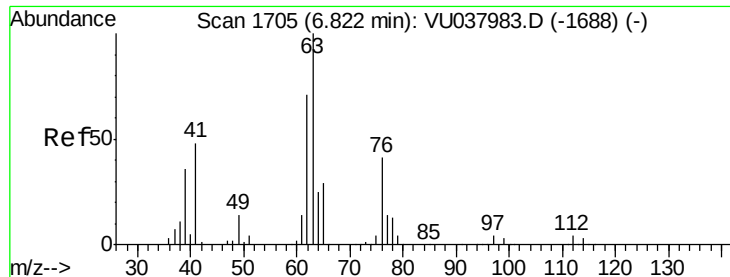


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

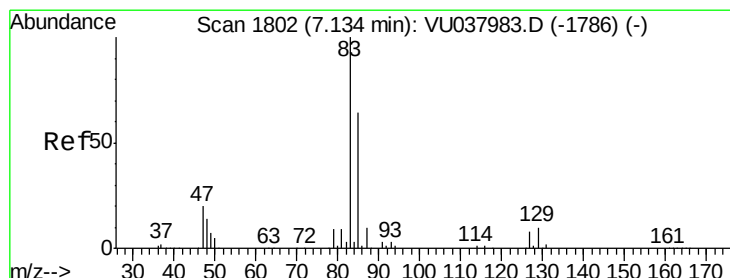
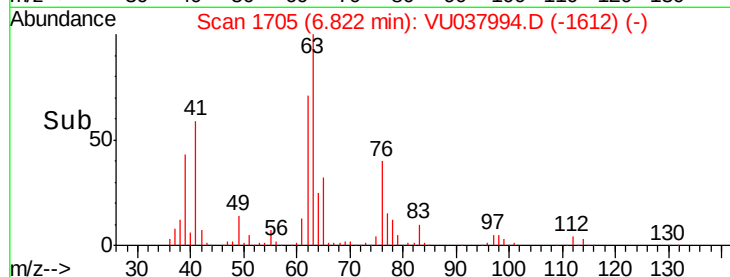
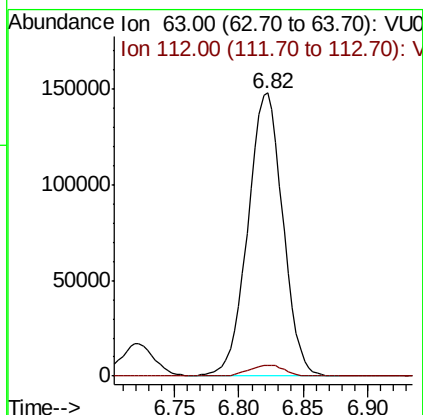
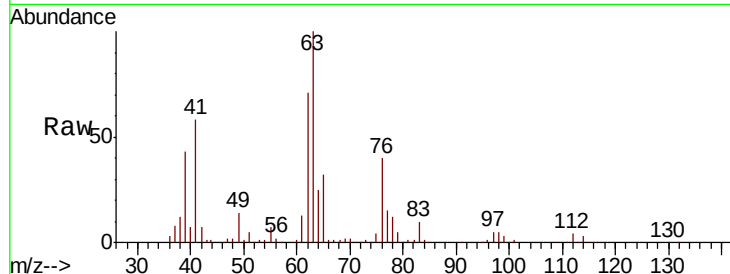




#37
 1,2-Dichloropropane
 Concen: 48.335 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

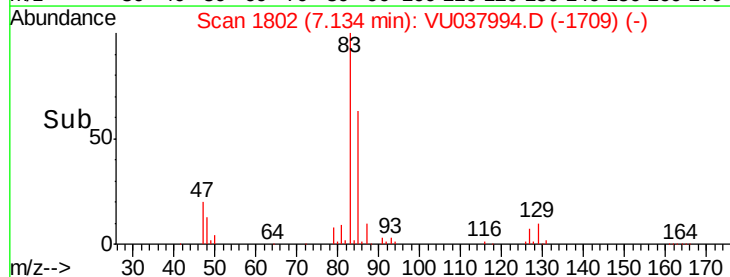
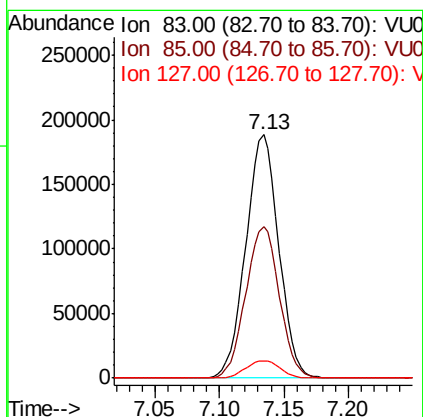
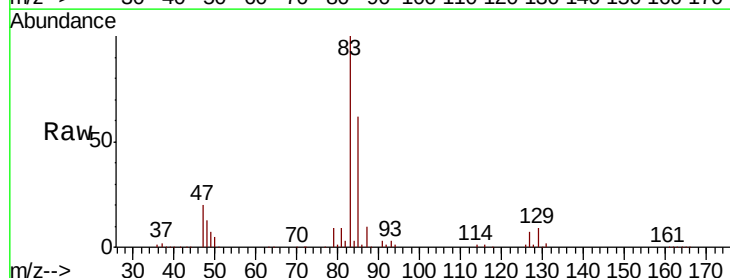
Instrument :
 MSVOA_U
 ClientSampleId :

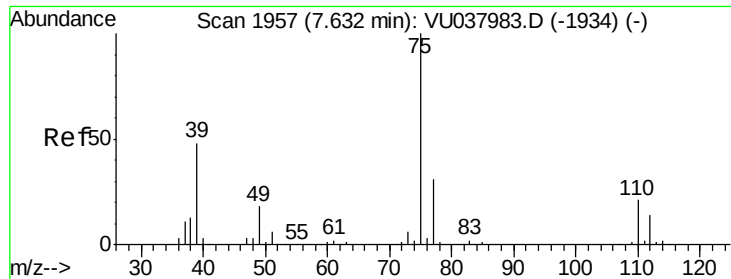
Tot Ion: 63 Resp: 278731
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.1 4.7



#38
 Bromodichloromethane
 Concen: 47.769 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

Tgt Ion: 83 Resp: 334471
 Ion Ratio Lower Upper
 83 100
 85 62.1 43.8 81.3
 127 7.1 6.1 9.1

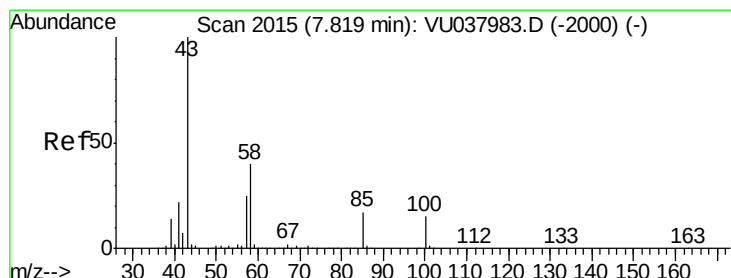
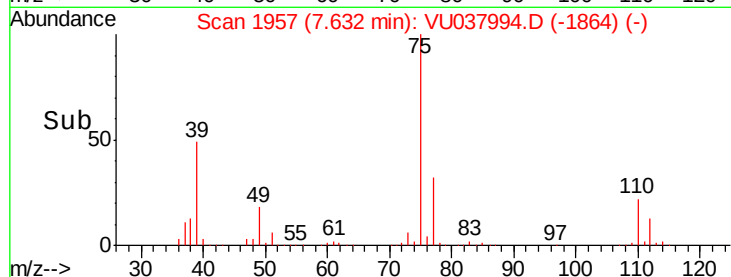
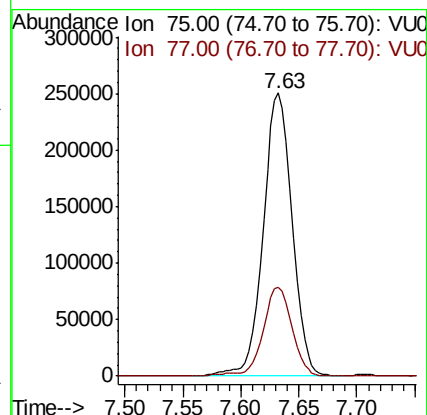
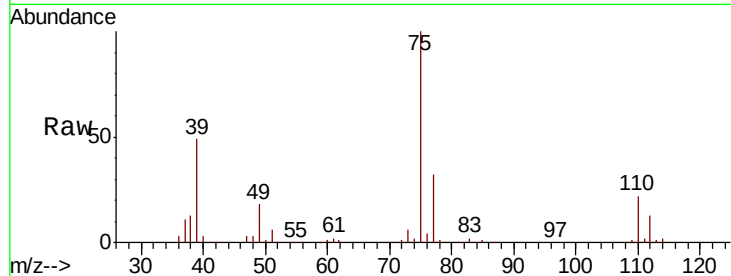




#39
 cis-1,3-Dichloropropene
 Concen: 49.238 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

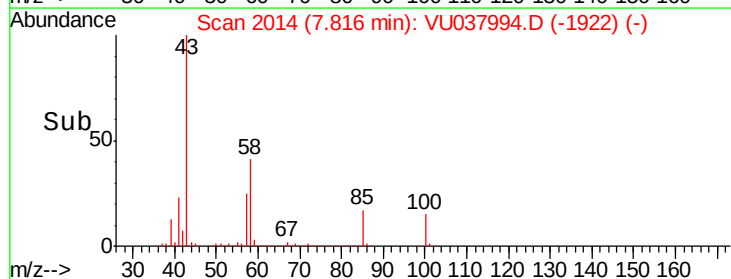
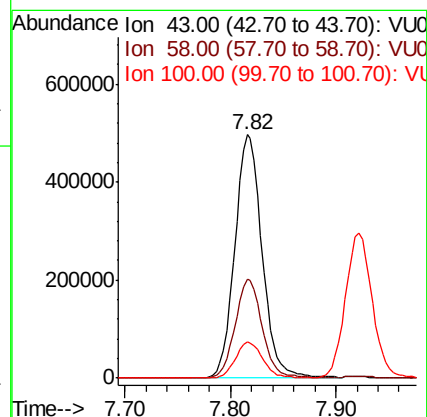
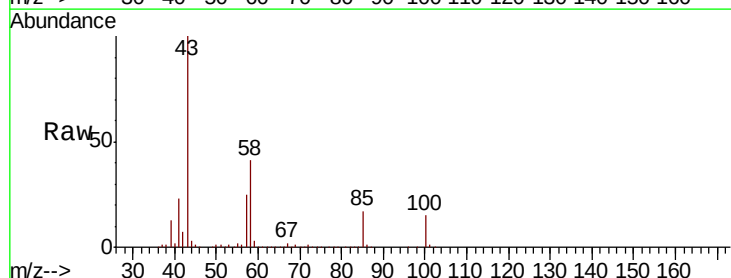
Instrument :
 MSVOA_U
 ClientSampled :

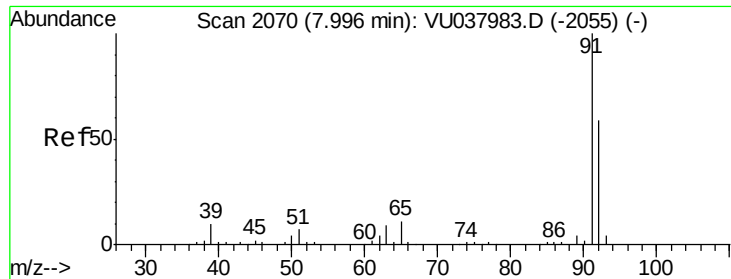
Tot Ion: 75 Resp: 435250
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 95.003 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. -0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

Tgt Ion: 43 Resp: 887663
 Ion Ratio Lower Upper
 43 100
 58 40.2 31.8 47.8
 100 14.9 12.2 18.2





#42

Toluene

Concen: 48.222 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

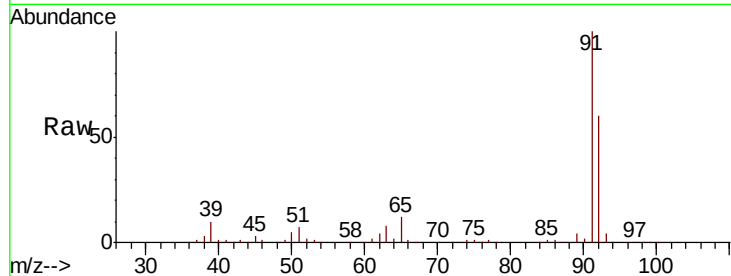
ClientSampleId :

Tot Ion: 91 Resp: 1092762

Ion Ratio Lower Upper

91 100

92 59.6 41.5 77.1



Abundance Ion 91.00 (90.70 to 91.70): VU037983.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU037983.D (-2055) (-)

7.99

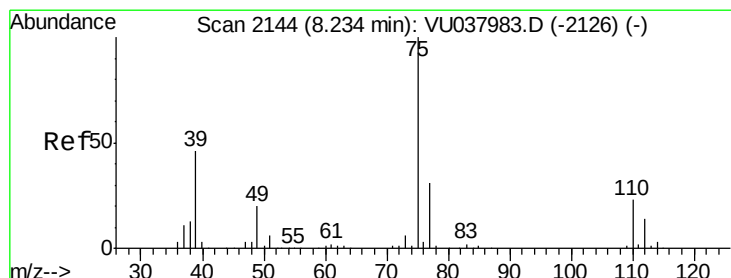
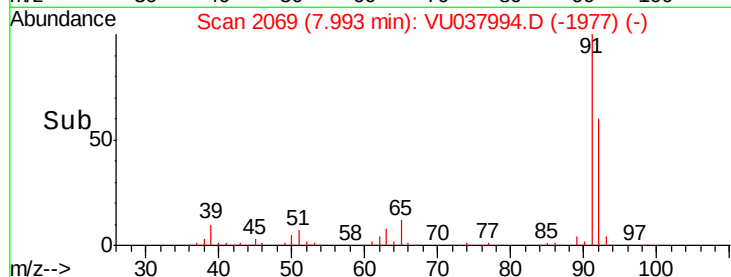
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.437 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037994.D

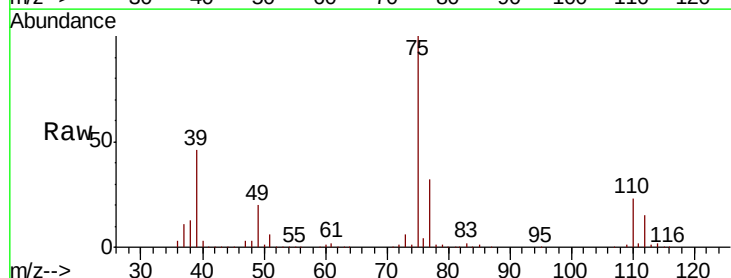
Acq: 01 May 2020 17:33

Tgt Ion: 75 Resp: 408004

Ion Ratio Lower Upper

75 100

77 31.6 21.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VU037983.D (-2126) (-)

Ion 77.00 (76.70 to 77.70): VU037983.D (-2126) (-)

8.23

250000

200000

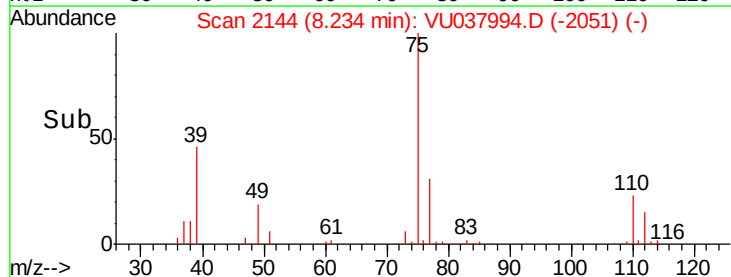
150000

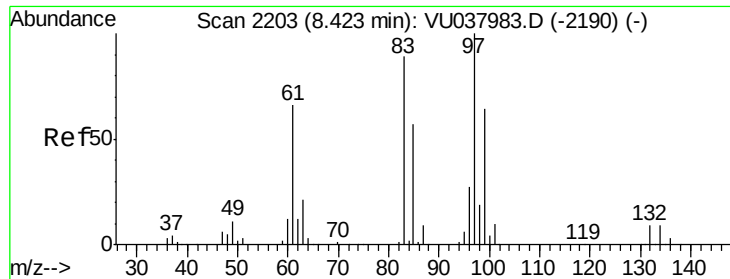
100000

50000

0

Time-->

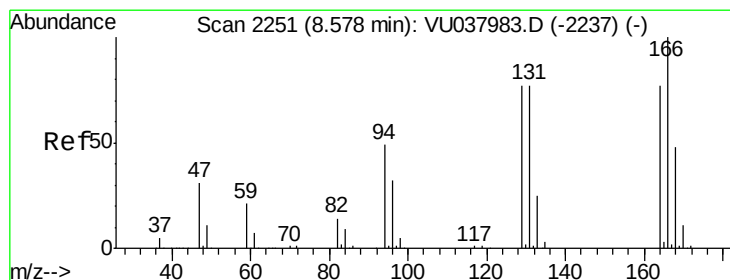
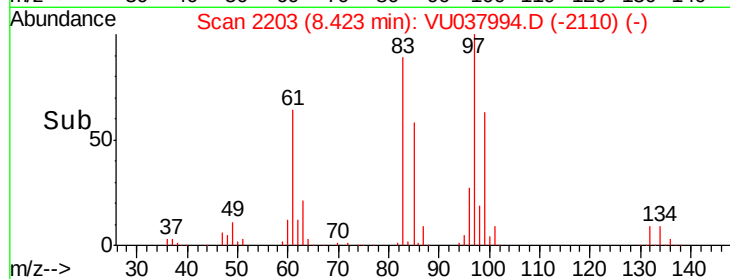
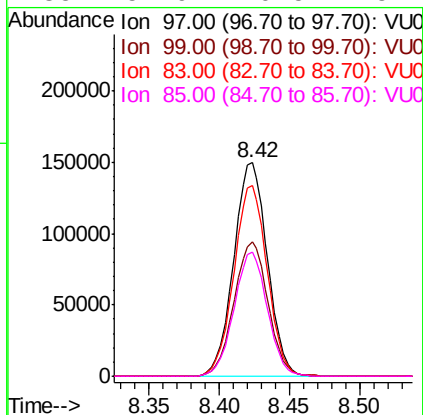
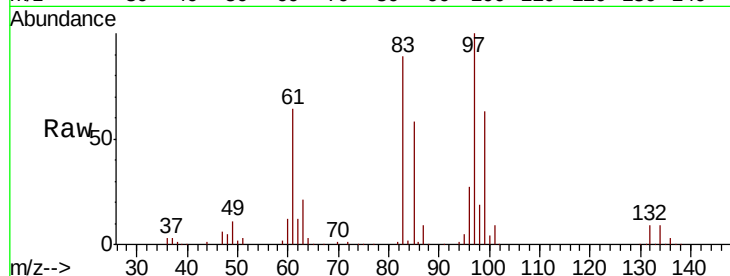




#45
 1,1,2-Trichloroethane
 Concen: 48.016 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

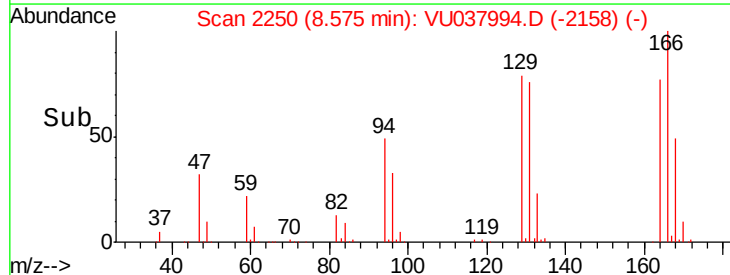
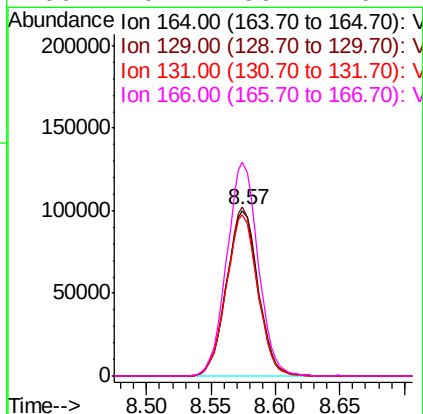
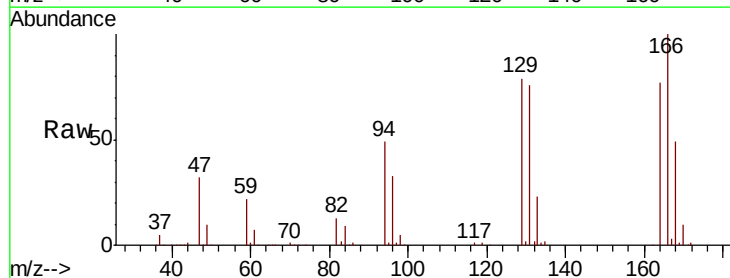
Instrument :
 MSVOA_U
 ClientSampleId :

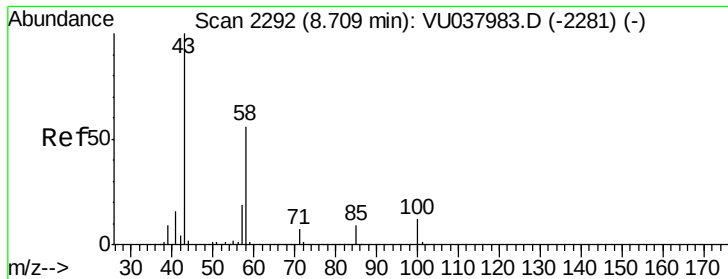
Tot Ion:	97	Resp:	250781
Ion	Ratio	Lower	Upper
97	100		
99	62.7	44.4	82.4
83	89.1	61.9	115.1
85	57.9	40.5	75.1



#46
 Tetrachloroethene
 Concen: 44.866 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

Tgt Ion:	164	Resp:	171328
Ion	Ratio	Lower	Upper
164	100		
129	102.0	68.4	127.0
131	97.7	65.7	122.1
166	129.2	86.7	161.1

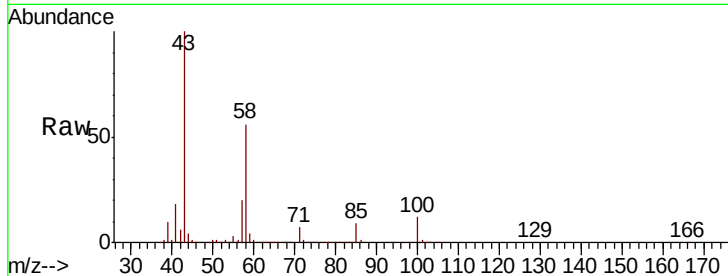




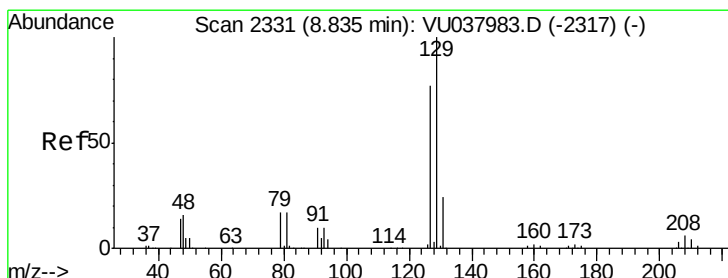
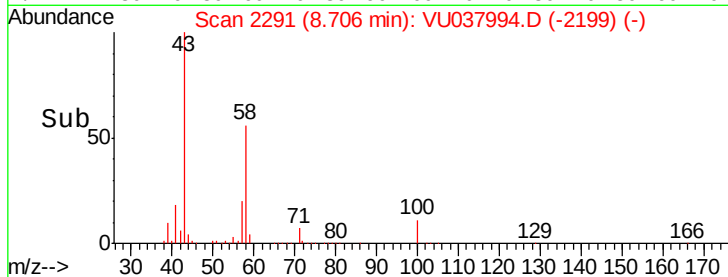
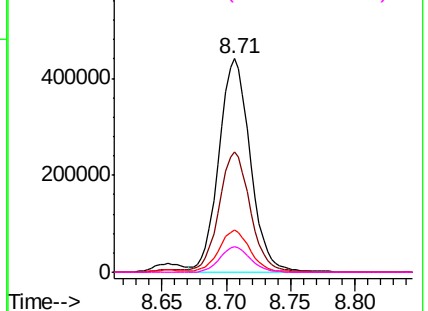
#48
2-Hexanone
Concen: 96.303 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 741533
Ion Ratio Lower Upper
43 100
58 56.0 46.4 69.6
57 19.7 16.4 24.6
100 11.8 9.5 14.3

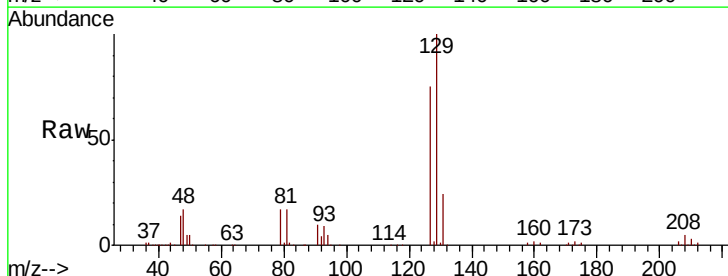


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

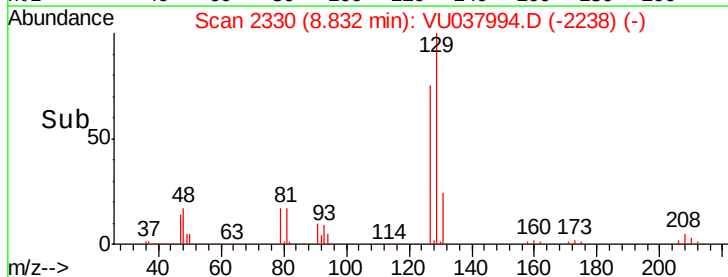
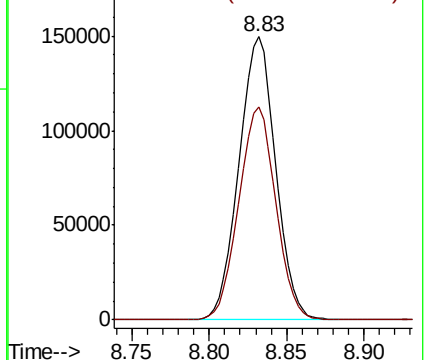


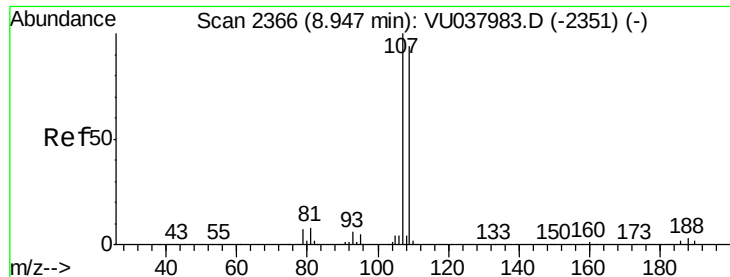
#49
Dibromochloromethane
Concen: 49.183 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

Tgt Ion: 129 Resp: 247732
Ion Ratio Lower Upper
129 100
127 75.1 54.7 101.5



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

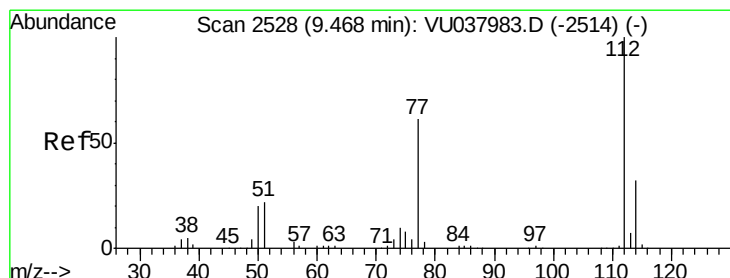
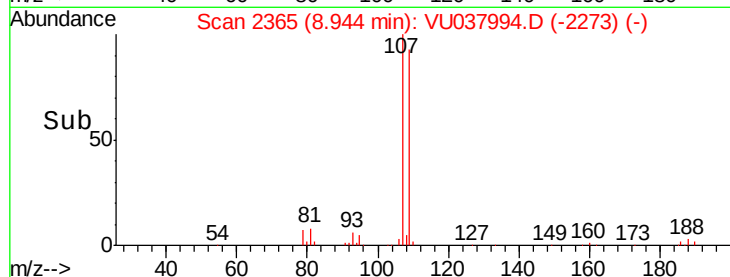
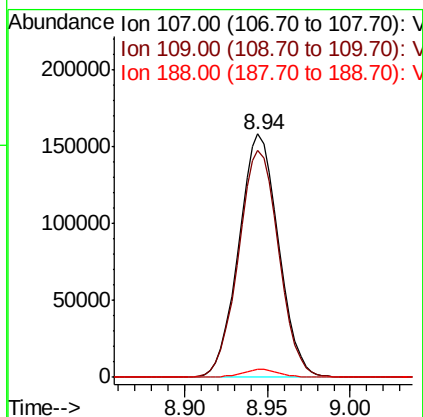
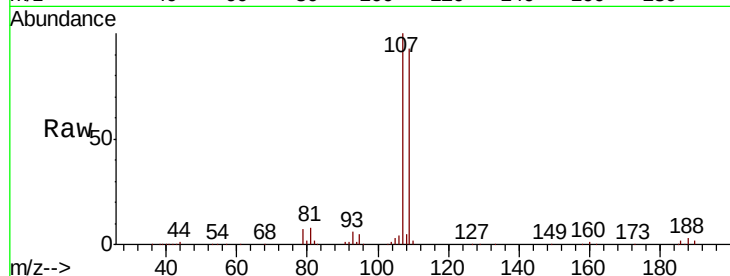




#50
1,2-Dibromoethane
Concen: 47.061 ug/L
RT: 8.94 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

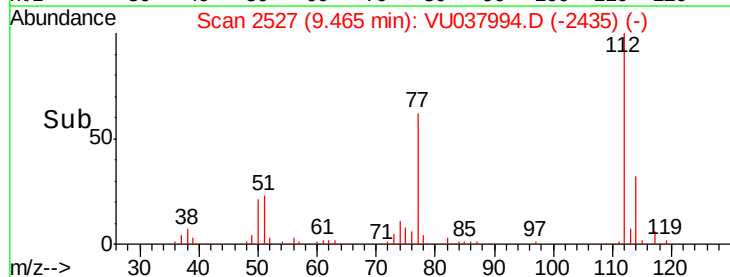
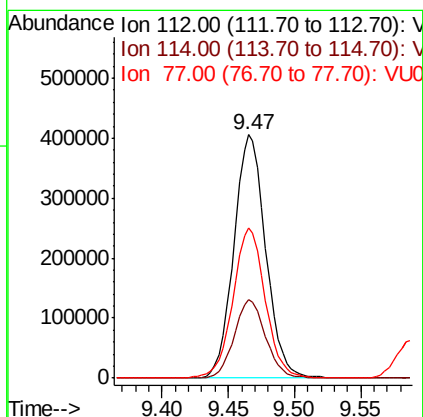
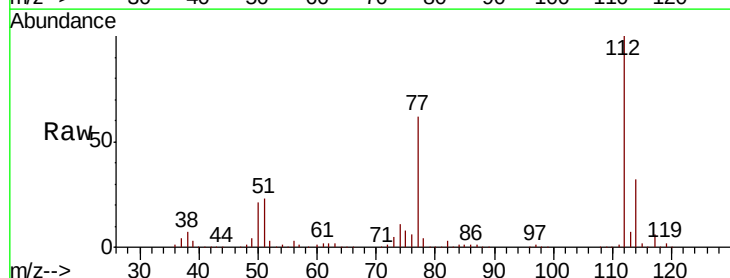
Instrument :
MSVOA_U
ClientSampleId :

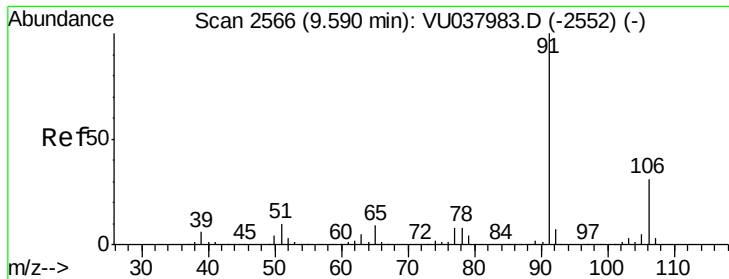
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.2	64.1	119.1
188	3.1	2.2	3.2



#51
Chlorobenzene
Concen: 47.995 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU037994.D
Acq: 01 May 2020 17:33

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	21.6	40.2
77	61.8	49.3	73.9





#52

Ethylbenzene

Concen: 48.397 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

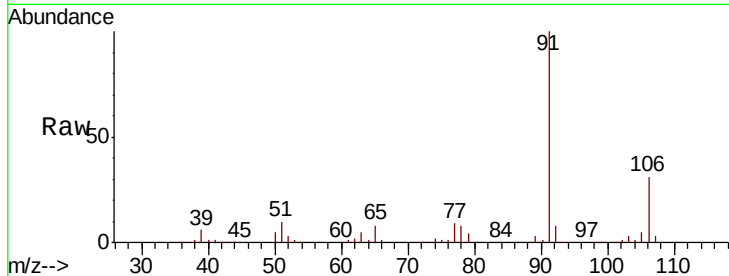
ClientSampled :

Tot Ion: 91 Resp: 1215729

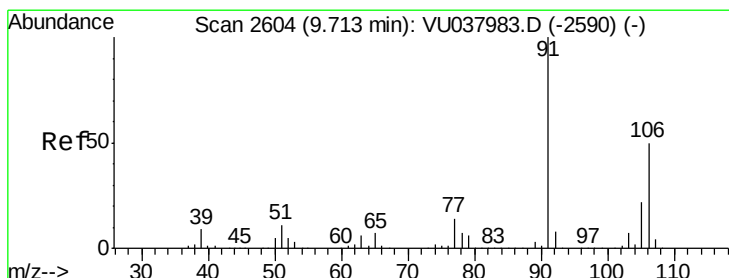
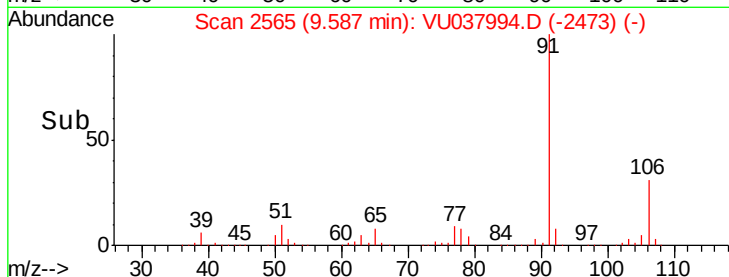
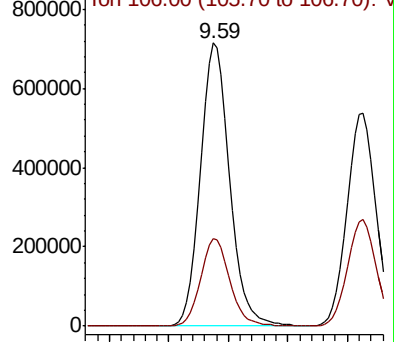
Ion Ratio Lower Upper

91 100

106 31.0 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU037983.D (-2552) (-)



#53

m,p-Xylene

Concen: 48.635 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037994.D

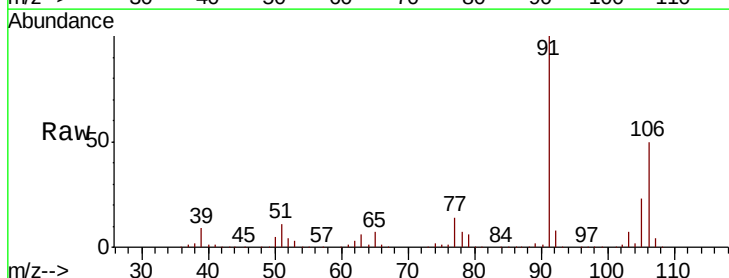
Acq: 01 May 2020 17:33

Tgt Ion: 106 Resp: 463876

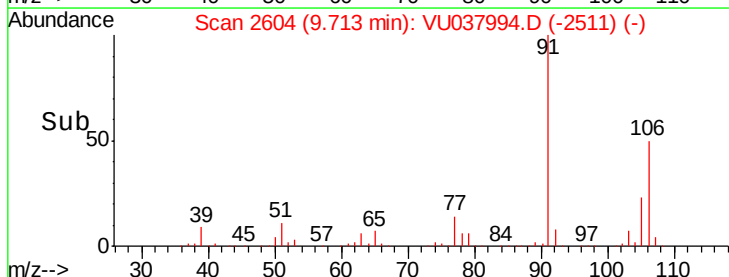
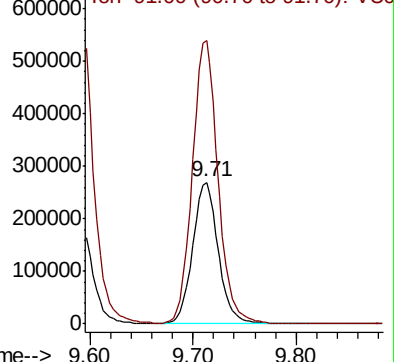
Ion Ratio Lower Upper

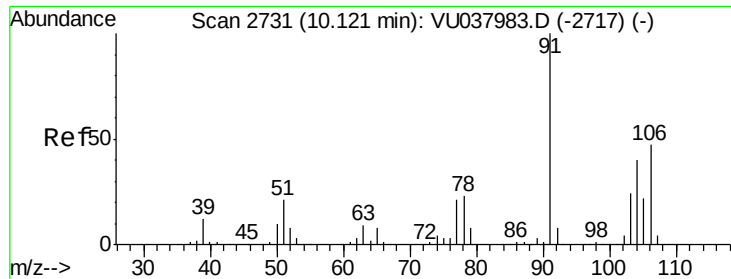
106 100

91 200.2 138.0 256.4



Abundance Ion 106.00 (105.70 to 106.70): VU037983.D (-2590) (-)





#54

o-xylene

Concen: 48.626 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

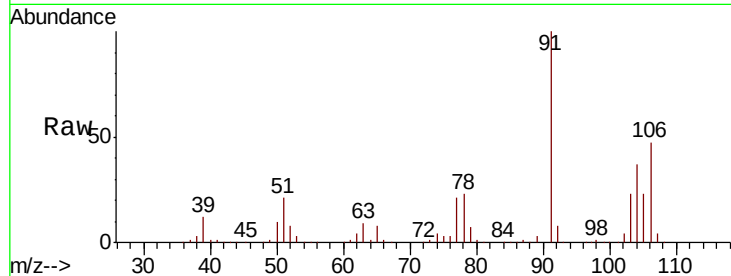
ClientSampleId :

Tot Ion:106 Resp: 456625

Ion Ratio Lower Upper

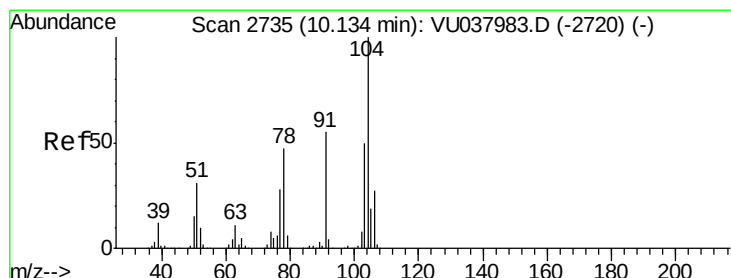
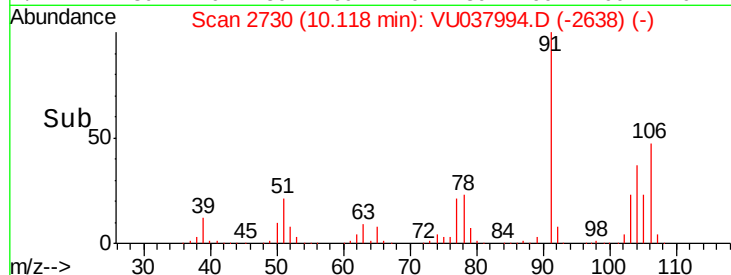
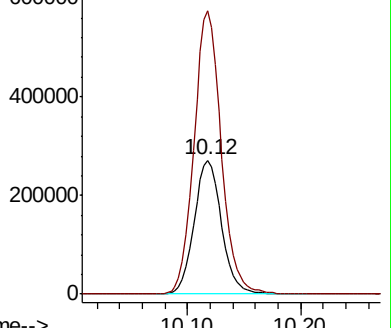
106 100

91 211.8 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.673 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU037994.D

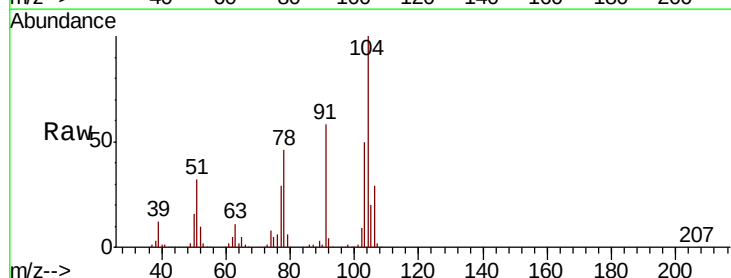
Acq: 01 May 2020 17:33

Tgt Ion:104 Resp: 776366

Ion Ratio Lower Upper

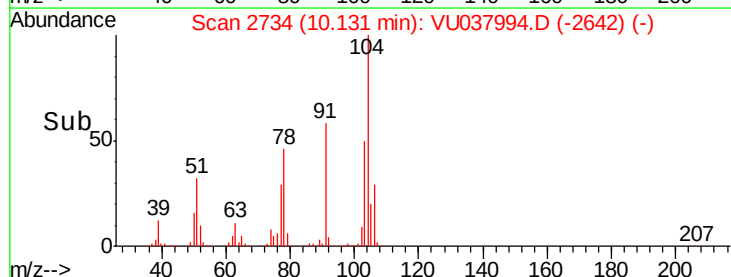
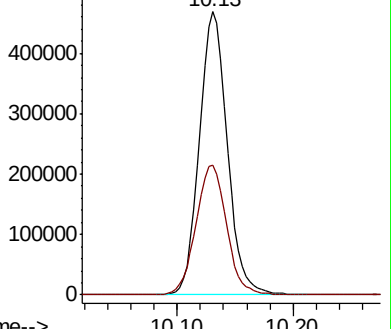
104 100

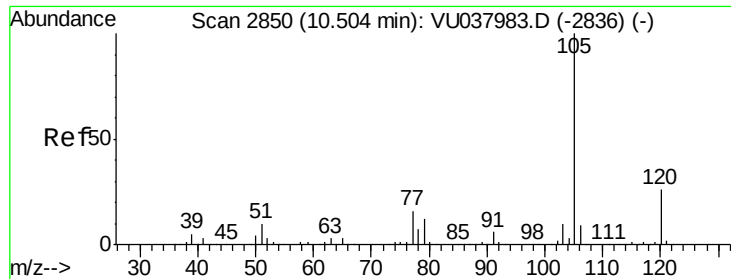
78 46.0 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.830 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

ClientSampled :

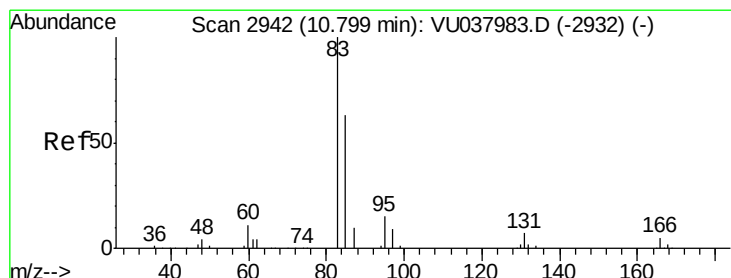
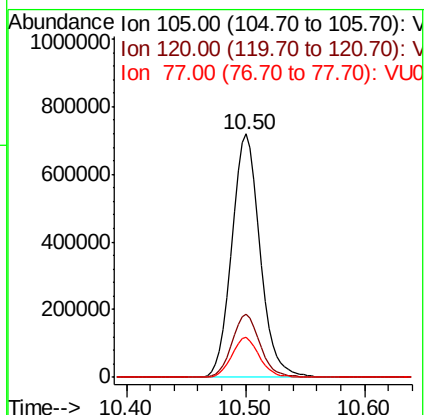
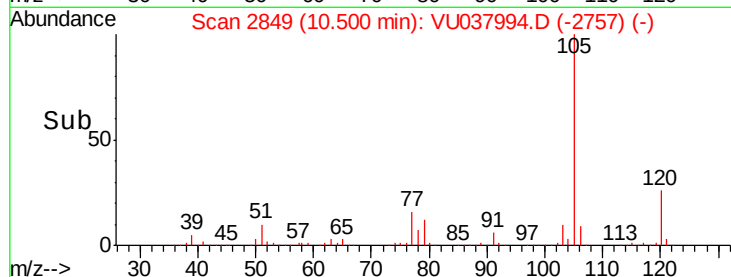
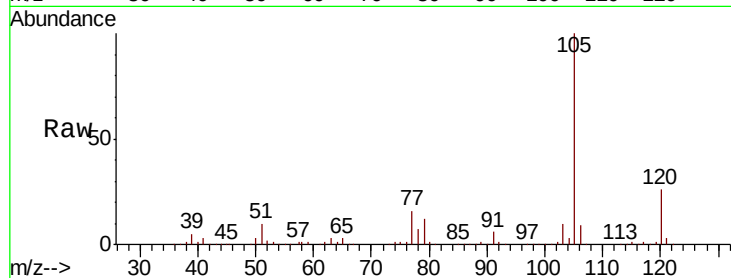
Tot Ion:105 Resp: 1180681

Ion Ratio Lower Upper

105 100

120 25.8 20.5 30.7

77 16.2 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 45.962 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

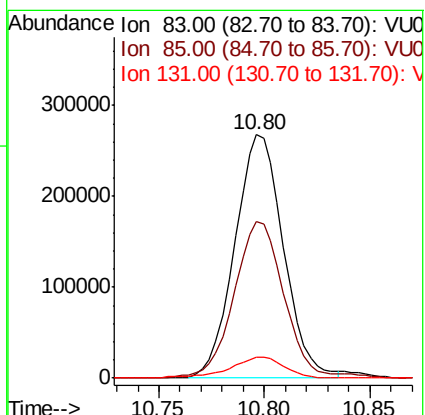
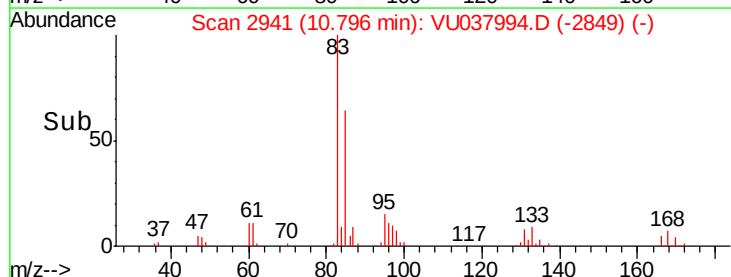
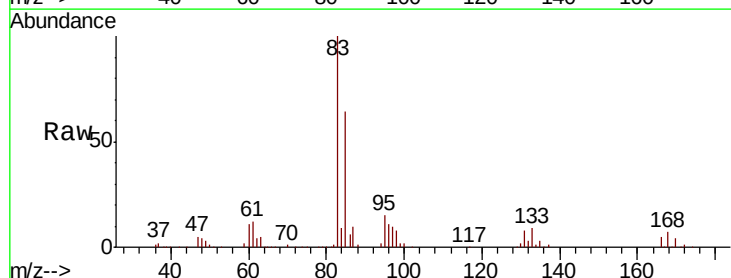
Tgt Ion: 83 Resp: 428562

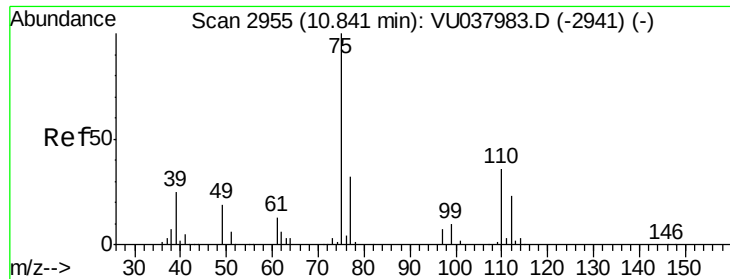
Ion Ratio Lower Upper

83 100

85 64.1 44.9 83.3

131 8.5 6.8 10.2





#59

1,2,3-Trichloropropane

Concen: 47.143 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

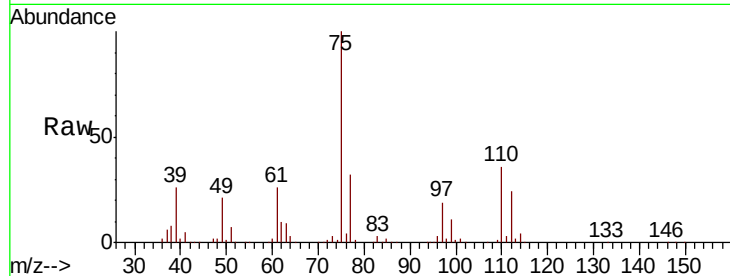
ClientSampleId :

Tot Ion: 75 Resp: 376949

Ion Ratio Lower Upper

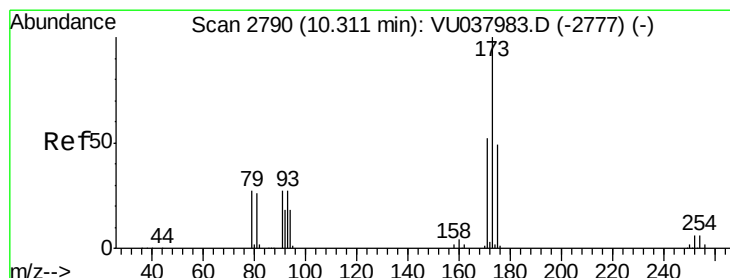
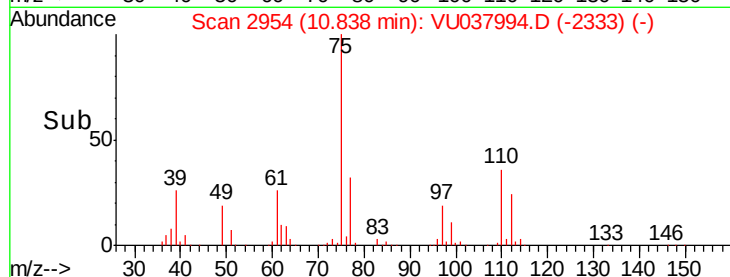
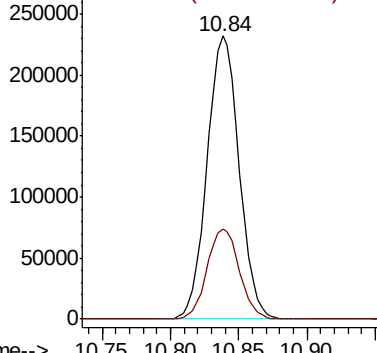
75 100

77 32.2 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 46.317 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

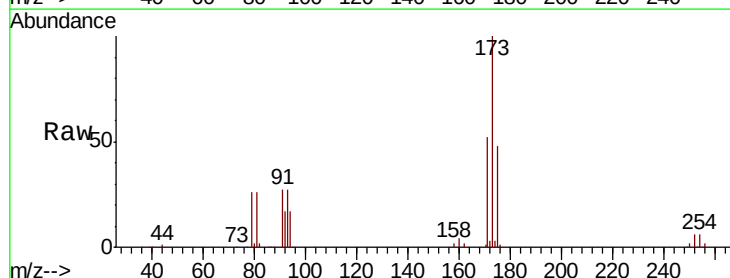
Tgt Ion: 173 Resp: 166686

Ion Ratio Lower Upper

173 100

175 49.0 39.0 58.4

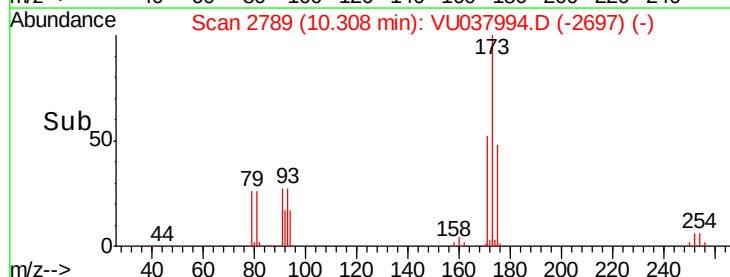
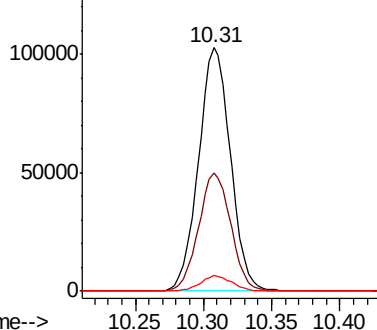
254 6.2 4.7 7.1

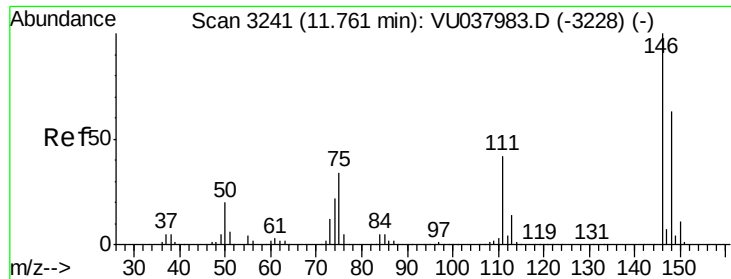


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#62

1,3-Dichlorobenzene

Concen: 46.968 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

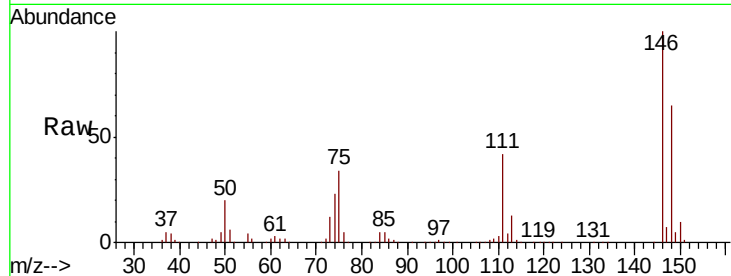
Tot Ion:146 Resp: 506118

Ion Ratio Lower Upper

146 100

111 41.5 29.2 54.2

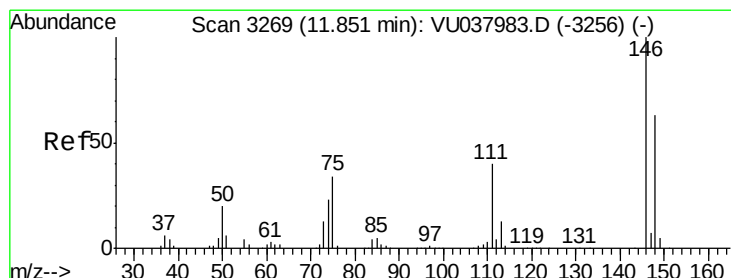
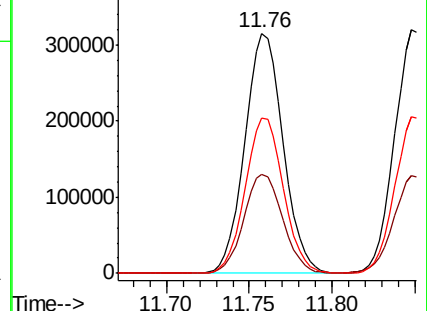
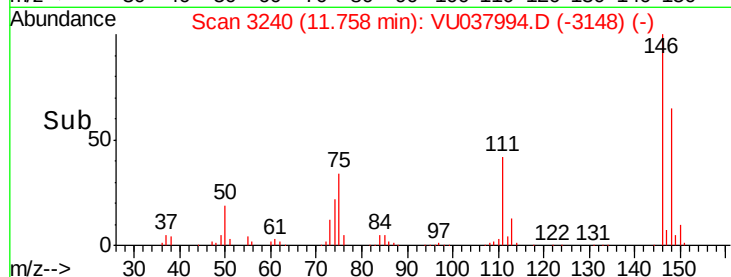
148 64.7 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.018 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

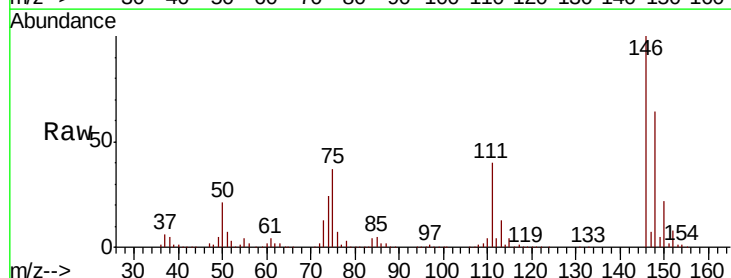
Tgt Ion:146 Resp: 511941

Ion Ratio Lower Upper

146 100

111 40.4 28.2 52.4

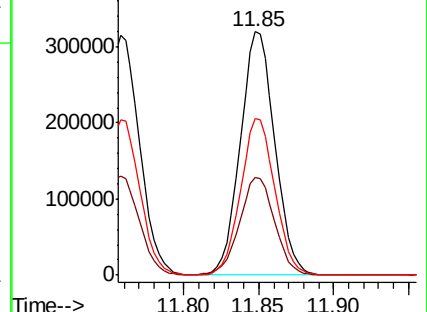
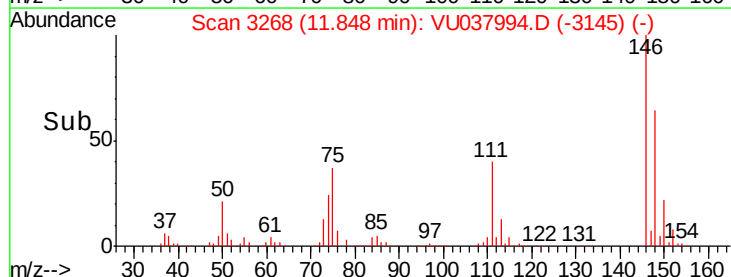
148 64.2 44.5 82.7

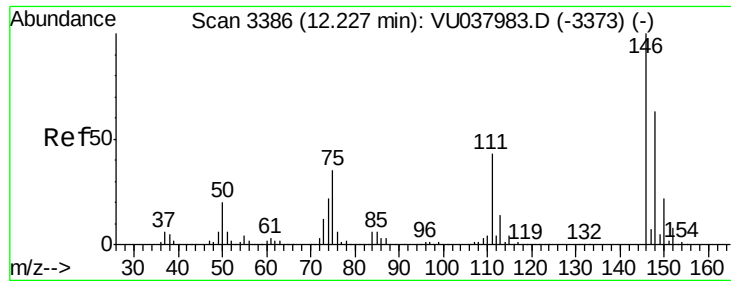


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

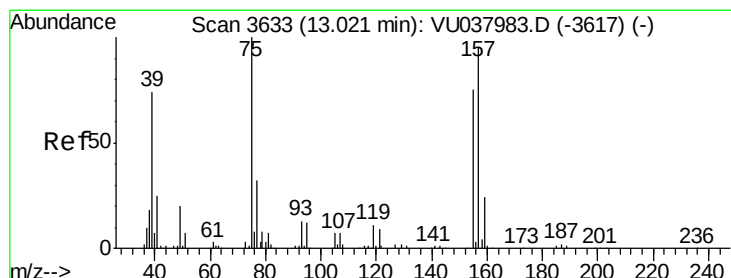
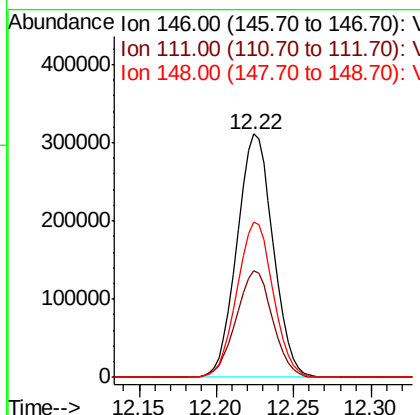
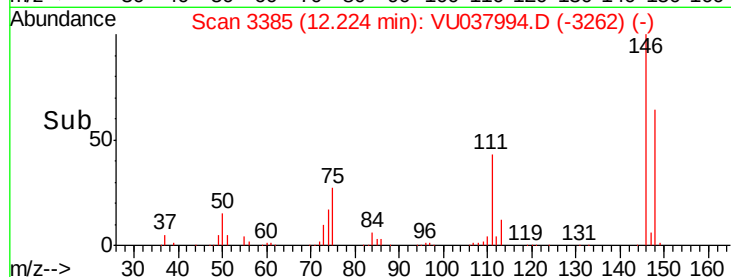
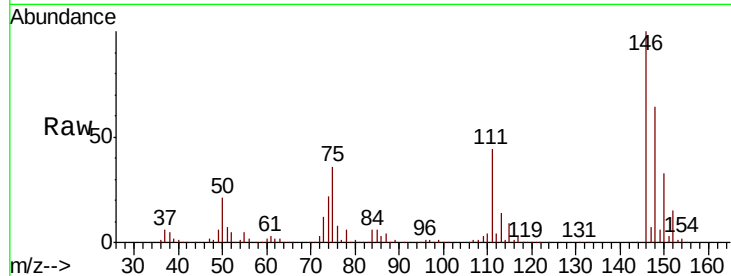




#65
 1,2-Dichlorobenzene
 Concen: 46.432 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. -0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

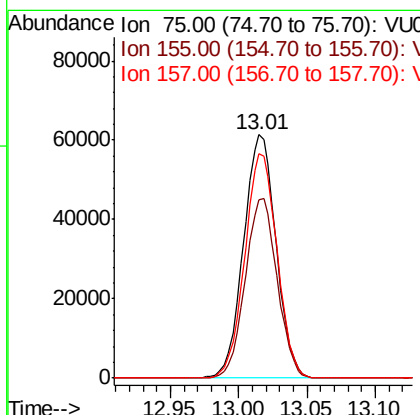
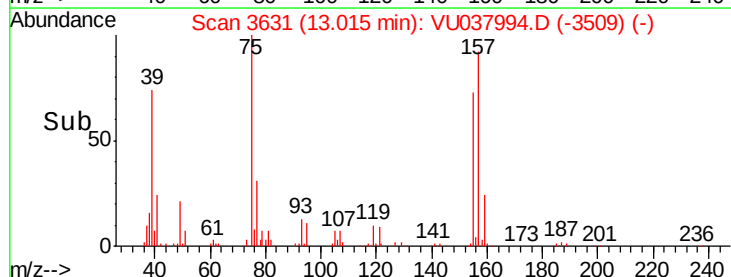
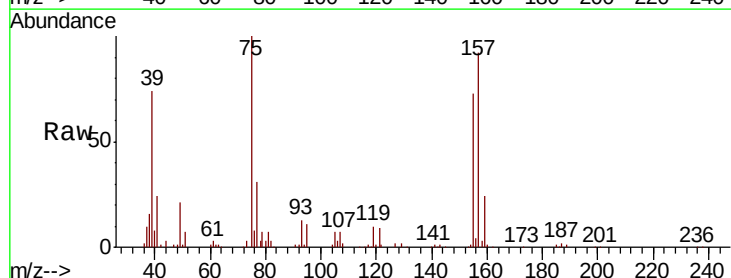
Instrument :
 MSVOA_U
 ClientSampleId :

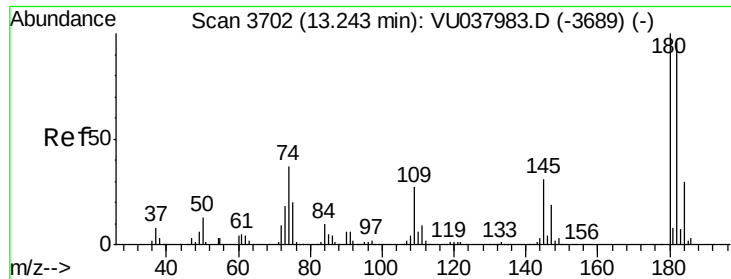
Tot Ion:146 Resp: 504744
 Ion Ratio Lower Upper
 146 100
 111 43.6 34.6 51.8
 148 63.7 50.1 75.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 44.654 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.01 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

Tgt Ion: 75 Resp: 101322
 Ion Ratio Lower Upper
 75 100
 155 73.2 61.3 91.9
 157 92.1 76.9 115.3

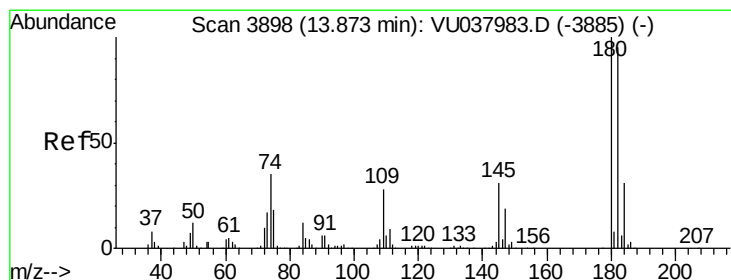
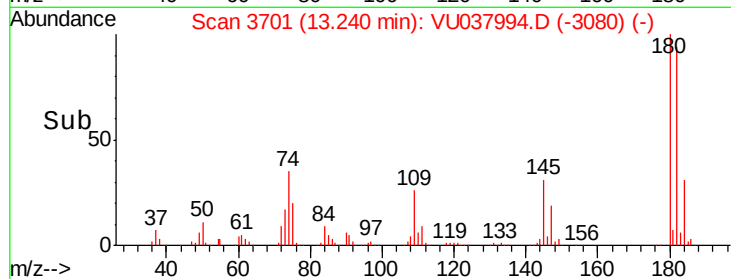
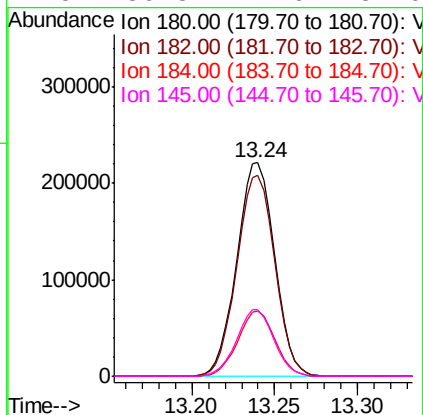
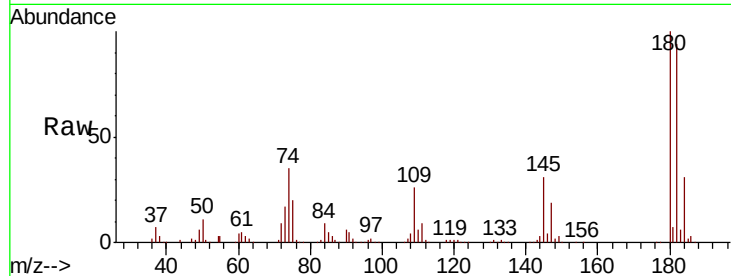




#67
 1,3,5-Trichlorobenzene
 Concen: 47.821 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

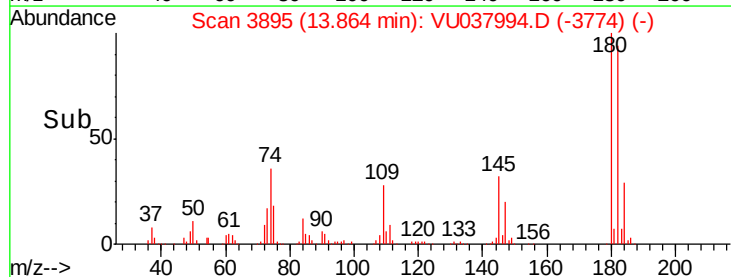
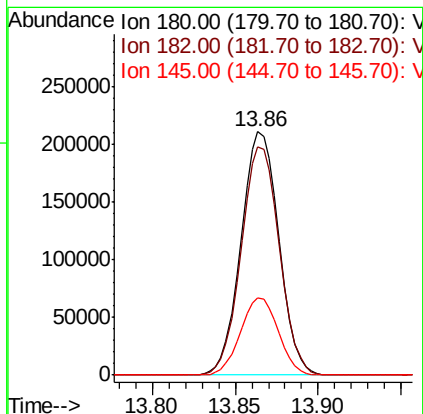
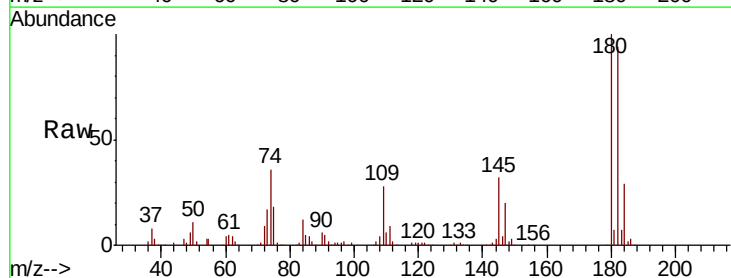
Instrument :
 MSVOA_U
 ClientSampleId :

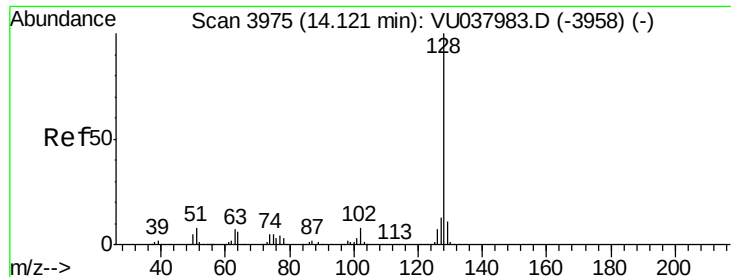
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.7	113.5
184	30.1	24.2	36.2
145	30.8	24.6	37.0



#68
 1,2,4-trichlorobenzene
 Concen: 47.515 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU037994.D
 Acq: 01 May 2020 17:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.4	113.0
145	31.8	25.3	37.9





#69

Naphthalene

Concen: 47.632 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

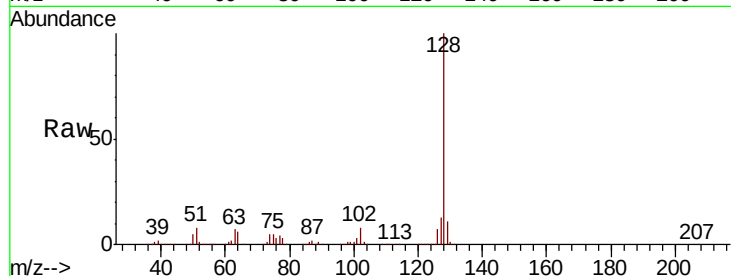
Instrument :

MSVOA_U

ClientSampled :

Tot Ion:128 Resp: 1286792

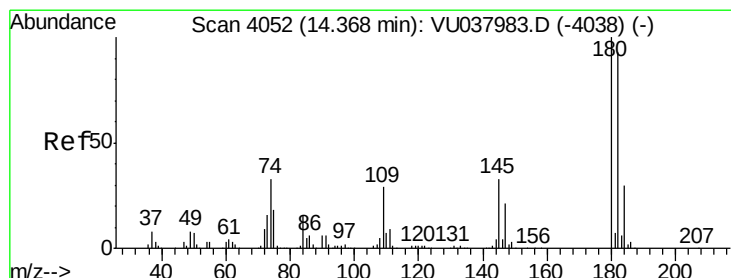
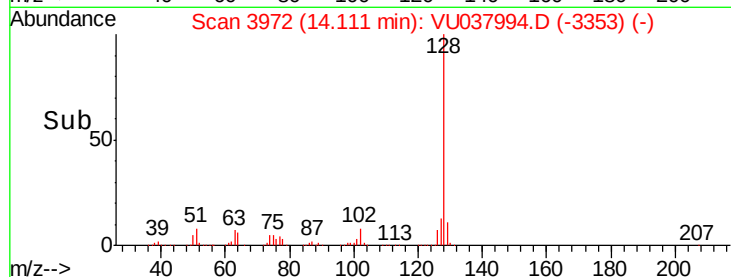
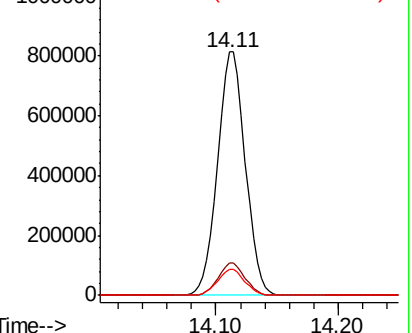
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.6	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.887 ug/L

RT: 14.36 min Scan# 4049

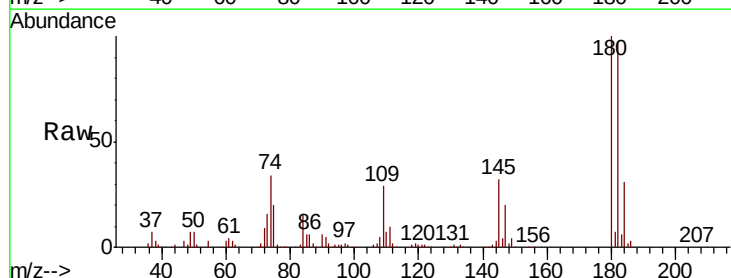
Delta R.T. -0.01 min

Lab File: VU037994.D

Acq: 01 May 2020 17:33

Tgt Ion:180 Resp: 338790

Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.9	113.9
145	33.0	27.0	40.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

