

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051820\
 Data File : VU038224.D
 Acq On : 18 May 2020 16:56
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 18 22:26:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon May 18 22:23:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	336918	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	326998	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	159646	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	127064	4.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.40%
7) Chloroethane-d5	1.93	69	116927	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.59	63	205598	3.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.80%
20) 2-Butanone-d5	4.68	46	464402	61.08	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.16%
24) Chloroform-d	5.10	84	230783	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.74	65	135141	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.76	84	451291	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.72	67	154688	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.80%
41) Toluene-d8	7.92	98	384262	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
43) trans-1,3-Dichloropropene-	8.20	79	61384	4.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.00%
46) 2-Hexanone-d5	8.66	63	331655	55.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.88%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	134609	5.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.80%
64) 1,2-Dichlorobenzene-d4	12.20	152	149942	4.83	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	128288	4.163 ug/L	97
3) Chloromethane	1.53	50	164193	4.422 ug/L	100
5) Vinyl chloride	1.62	62	167488	4.603 ug/L	100
6) Bromomethane	1.87	94	85628	4.133 ug/L	96
8) Chloroethane	1.95	64	101412	4.531 ug/L	98
9) Trichlorofluoromethane	2.16	101	165171	4.440 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	97989	4.248 ug/L	99
12) 1,1-Dichloroethene	2.60	96	103354	4.420 ug/L	95
13) Acetone	2.68	43	252028	52.831 ug/L	99
14) Carbon disulfide	2.82	76	331545	3.975 ug/L	98
15) Methyl Acetate	2.99	43	63153	4.732 ug/L	99
16) Methylene chloride	3.08	84	126830	4.654 ug/L	99
17) Methyl tert-butyl Ether	3.40	73	293190	4.513 ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	112803	4.419 ug/L	97
19) 1,1-Dichloroethane	3.91	63	231291	4.639 ug/L	99
21) 2-Butanone	4.76	43	439555	52.203 ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	127147	4.622 ug/L	100

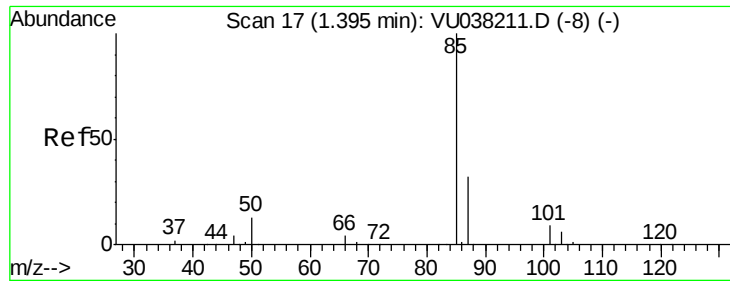
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U051820\
 Data File : VU038224.D
 Acq On : 18 May 2020 16:56
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 18 22:26:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon May 18 22:23:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	55951	4.727	ug/L	96
25) Chloroform	5.12	83	222905	4.793	ug/L	100
27) 1,2-Dichloroethane	5.83	62	156456	4.766	ug/L	99
29) 1,1,1-Trichloroethane	5.35	97	173679	4.636	ug/L	98
30) Cyclohexane	5.42	56	176463	3.989	ug/L	98
31) Carbon tetrachloride	5.56	117	135446	4.498	ug/L	98
33) Benzene	5.81	78	498980	4.765	ug/L	100
34) Trichloroethene	6.57	95	119072	4.546	ug/L	99
35) Methylcyclohexane	6.79	83	168314	3.967	ug/L	97
37) 1,2-Dichloropropane	6.82	63	132406	4.655	ug/L	99
38) Bromodichloromethane	7.13	83	156947	4.773	ug/L	99
39) cis-1,3-Dichloropropene	7.63	75	189818	4.663	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	982630	49.847	ug/L	100
42) Toluene	7.99	91	502665	4.547	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	162512	4.695	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	94605	4.790	ug/L	95
47) Tetrachloroethene	8.57	164	79502	4.340	ug/L	99
48) 2-Hexanone	8.71	43	735131	50.921	ug/L	100
49) Dibromochloromethane	8.83	129	98984	4.829	ug/L	96
50) 1,2-Dibromoethane	8.94	107	88378	4.821	ug/L	98
51) Chlorobenzene	9.47	112	315947	4.606	ug/L	100
52) Ethylbenzene	9.59	91	525965	4.393	ug/L	100
53) m,p-Xylene	9.71	106	203416	4.430	ug/L	97
54) o-Xylene	10.12	106	202500	4.562	ug/L	100
55) Styrene	10.13	104	343742	4.613	ug/L	100
56) Isopropylbenzene	10.50	105	501515	4.398	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	122025	4.866	ug/L	96
59) 1,2,3-Trichloropropane	10.84	75	92773	4.860	ug/L	99
61) Bromoform	10.31	173	52754	4.889	ug/L	97
62) 1,3-Dichlorobenzene	11.76	146	240776	4.635	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	239135	4.543	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	232924	4.661	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	18918	4.632	ug/L	91
67) 1,3,5-Trichlorobenzene	13.24	180	165909	4.402	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	157710	4.613	ug/L	98
69) Naphthalene	14.11	128	339154	4.712	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	149676	4.710	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.163 ug/L

RT: 1.40 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

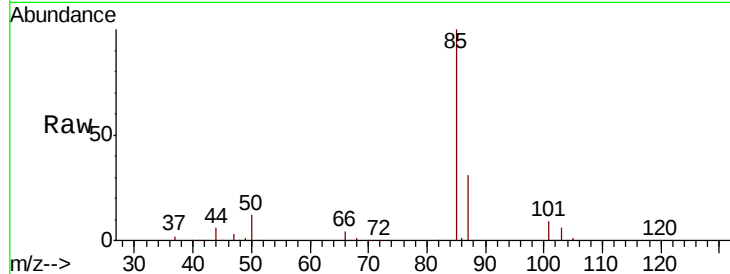
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 128288

Ion Ratio Lower Upper

85 100

87 31.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU038211.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU038211.D (-8) (-)

1.40

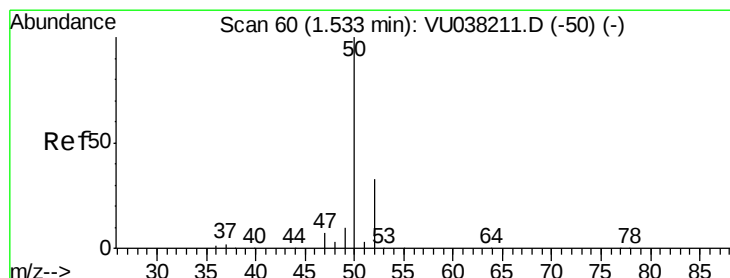
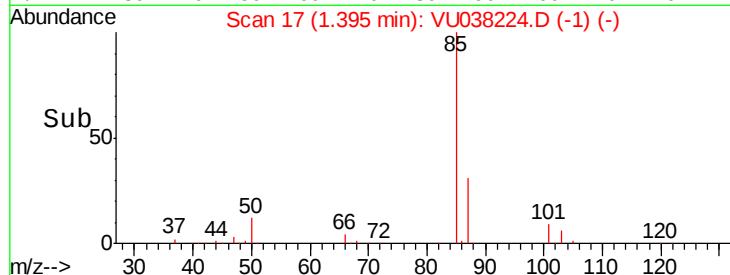
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.422 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038224.D

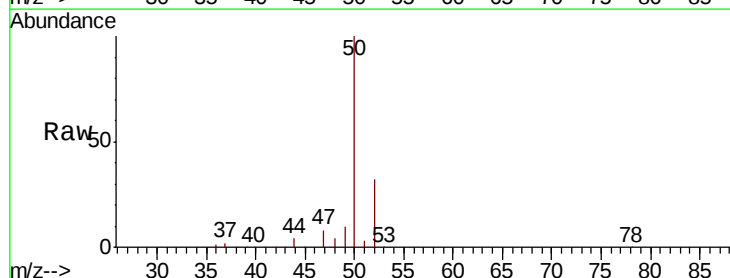
Acq: 18 May 2020 16:56

Tgt Ion: 50 Resp: 164193

Ion Ratio Lower Upper

50 100

52 32.2 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VU038211.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU038211.D (-50) (-)

1.53

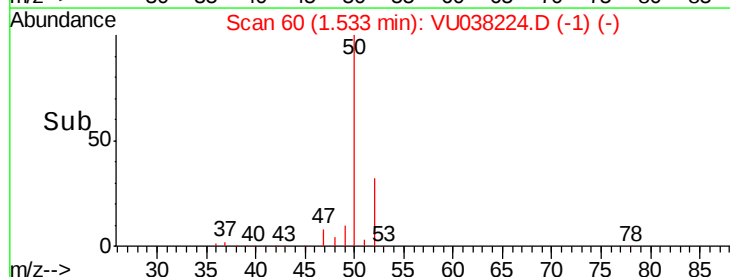
150000

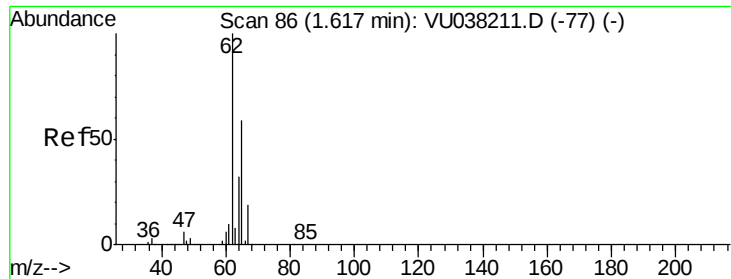
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.603 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

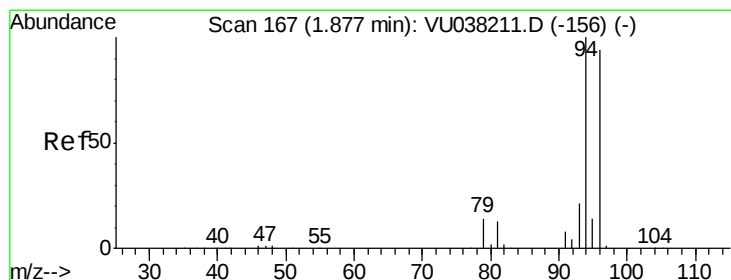
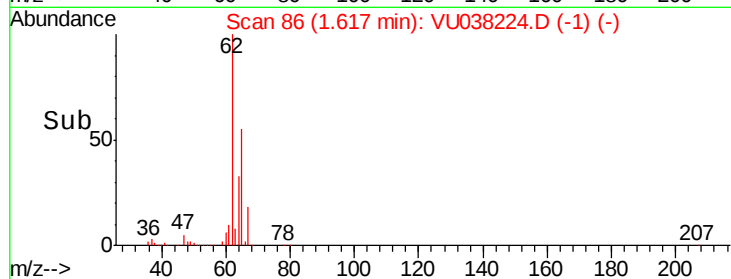
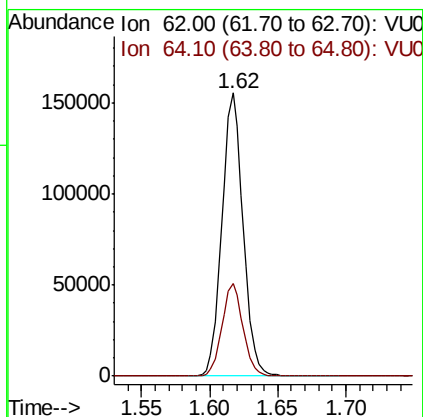
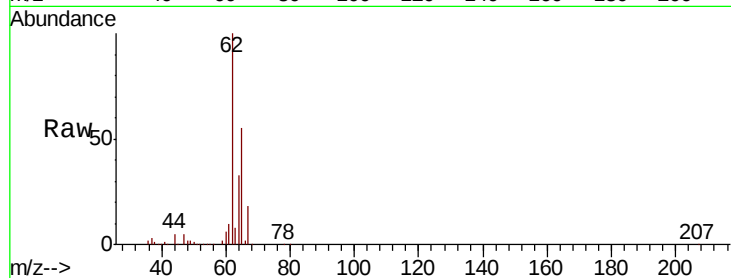
ClientSampleId :

Tot Ion: 62 Resp: 167488

Ion Ratio Lower Upper

62 100

64 32.6 22.8 42.4



#6

Bromomethane

Concen: 4.133 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU038224.D

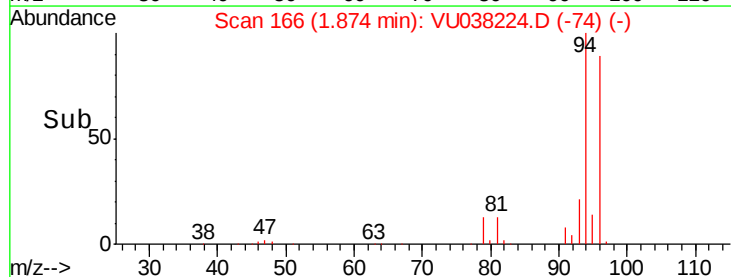
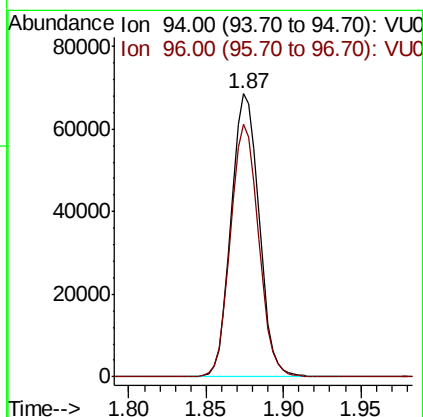
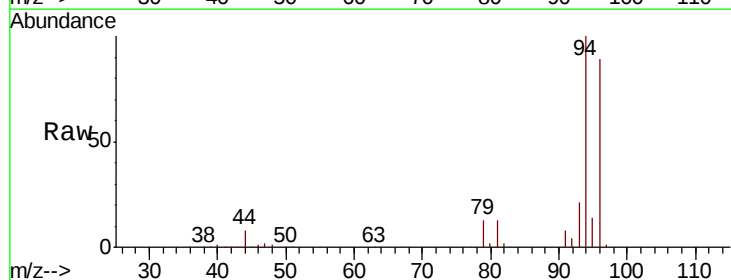
Acq: 18 May 2020 16:56

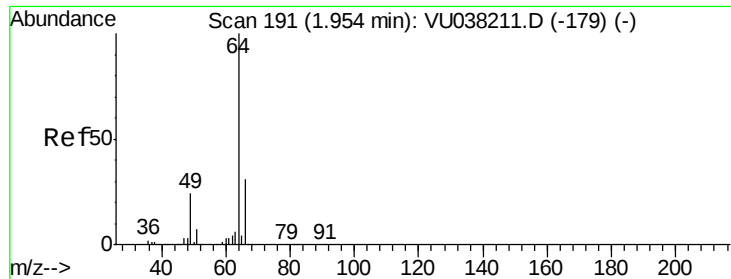
Tgt Ion: 94 Resp: 85628

Ion Ratio Lower Upper

94 100

96 89.4 65.0 120.8





#8

Chloroethane

Concen: 4.531 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

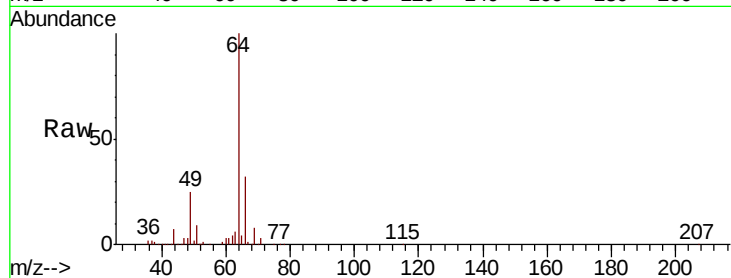
ClientSampleId :

Tot Ion: 64 Resp: 101412

Ion Ratio Lower Upper

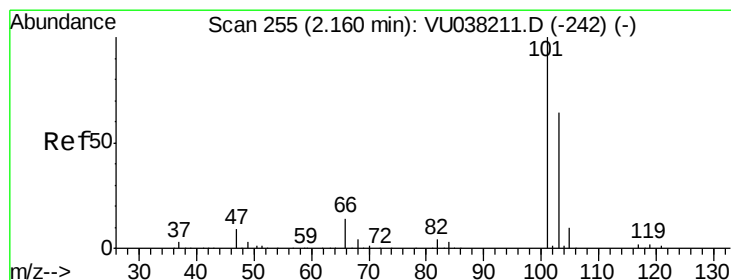
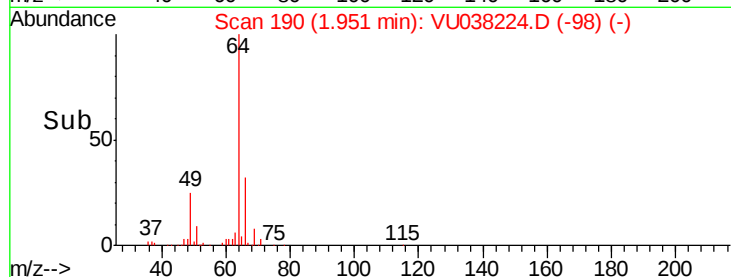
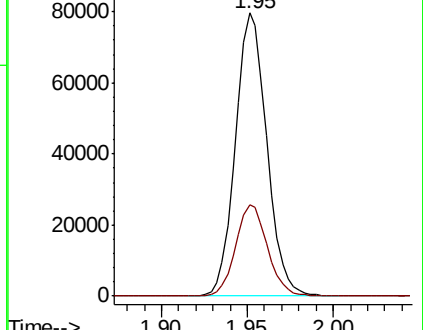
64 100

66 32.1 21.8 40.4



Abundance Ion 64.10 (63.80 to 64.80): VU038211.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU038211.D (-179) (-)



#9

Trichlorofluoromethane

Concen: 4.440 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU038224.D

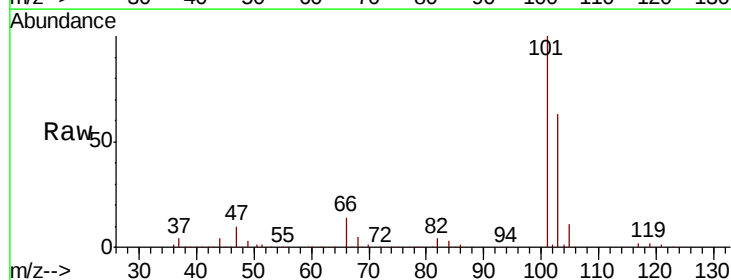
Acq: 18 May 2020 16:56

Tgt Ion:101 Resp: 165171

Ion Ratio Lower Upper

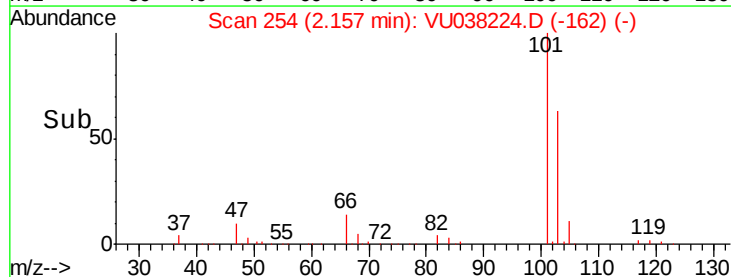
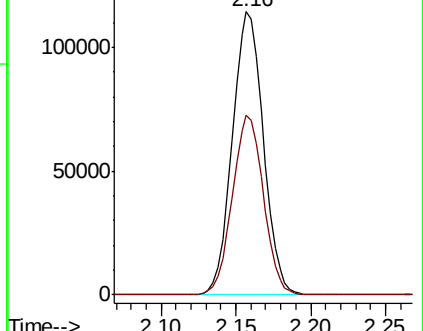
101 100

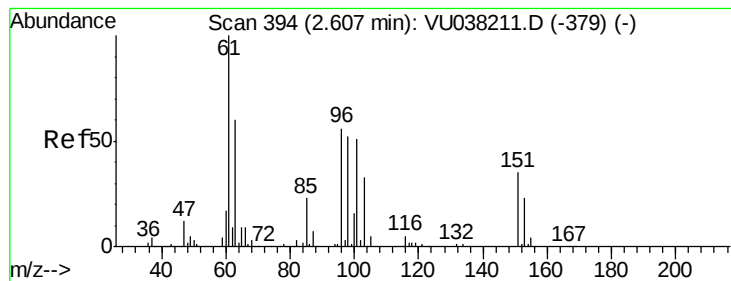
103 63.6 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU038211.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU038211.D (-242) (-)





#10

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

Concen: 4.248 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

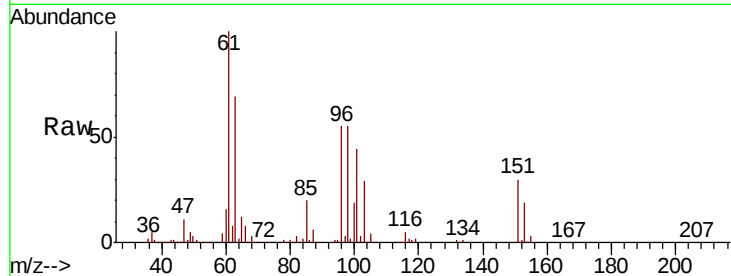
Tot Ion:101 Resp: 97989

Ion Ratio Lower Upper

101 100

85 43.7 35.3 52.9

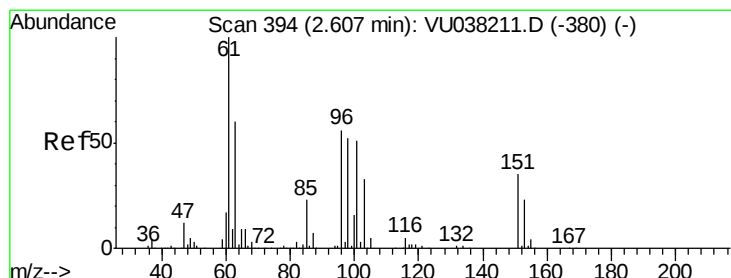
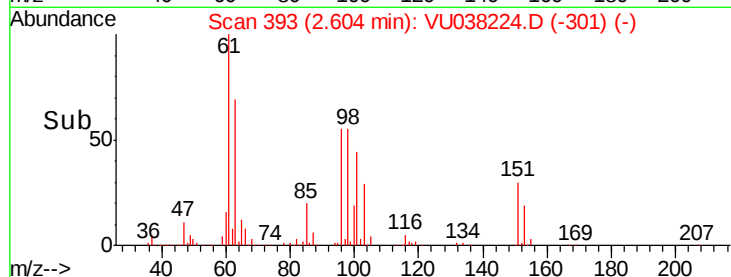
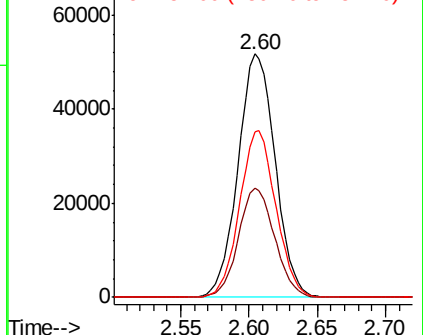
151 66.8 54.2 81.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.420 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

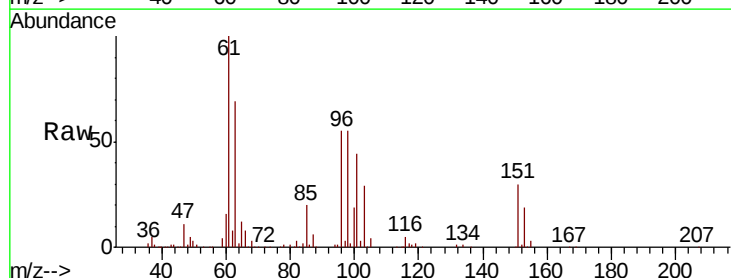
Tgt Ion: 96 Resp: 103354

Ion Ratio Lower Upper

96 100

61 181.8 126.2 234.4

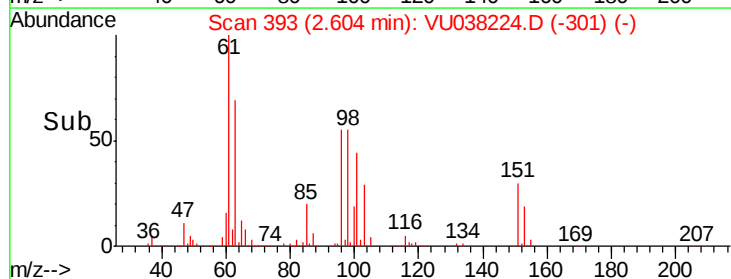
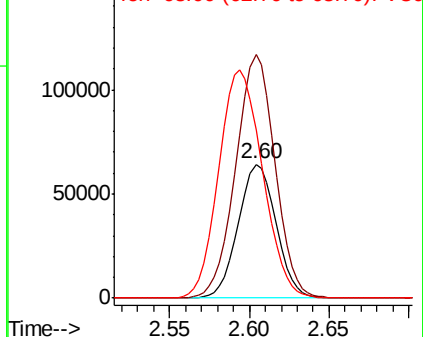
63 125.7 96.9 179.9

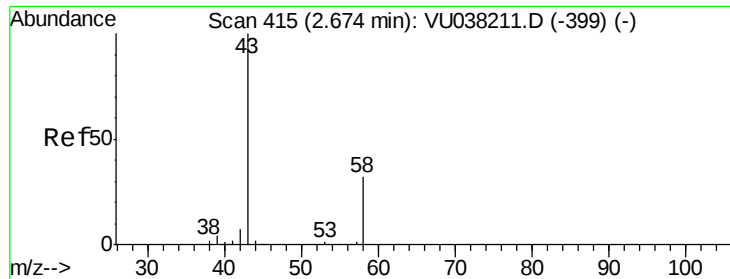


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 52.831 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

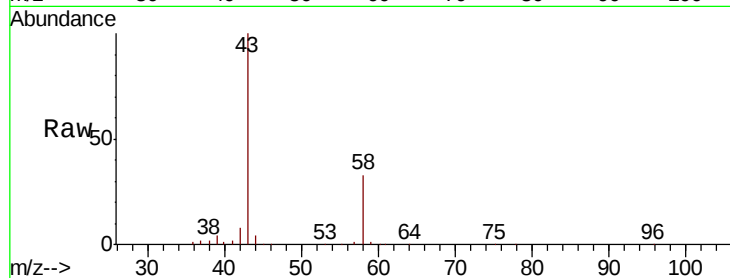
ClientSampleId :

Tot Ion: 43 Resp: 252028

Ion Ratio Lower Upper

43 100

58 32.4 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU038211.D (-399) (-)

Ion 58.05 (57.75 to 58.75): VU038211.D (-399) (-)

2.68

80000

60000

40000

20000

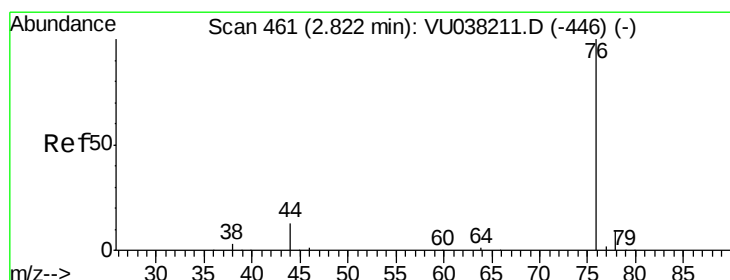
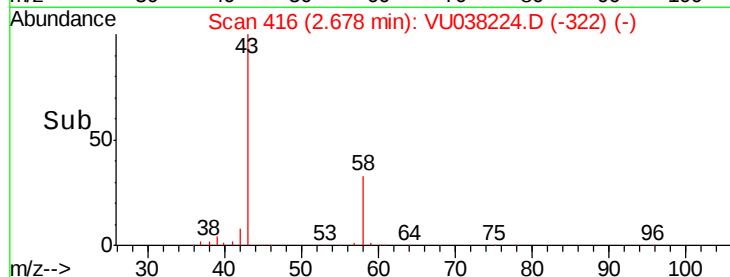
0

Time-->

2.60

2.70

2.80



#14

Carbon disulfide

Concen: 3.975 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038224.D

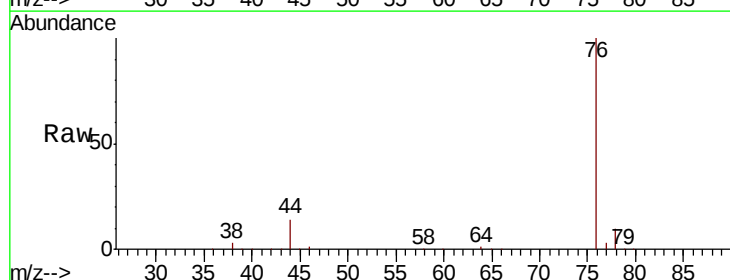
Acq: 18 May 2020 16:56

Tgt Ion: 76 Resp: 331545

Ion Ratio Lower Upper

76 100

78 9.6 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU038211.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU038211.D (-446) (-)

2.82

200000

150000

100000

50000

0

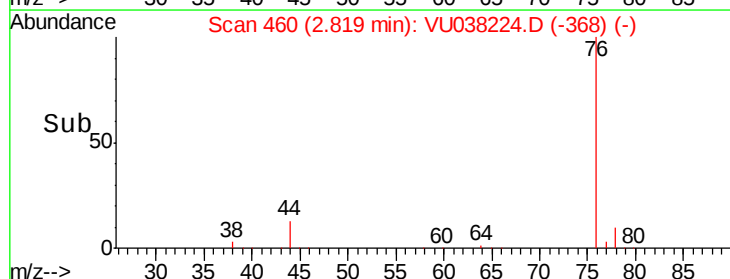
Time-->

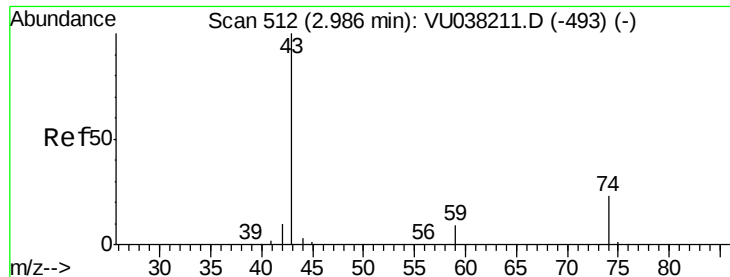
2.75

2.80

2.85

2.90

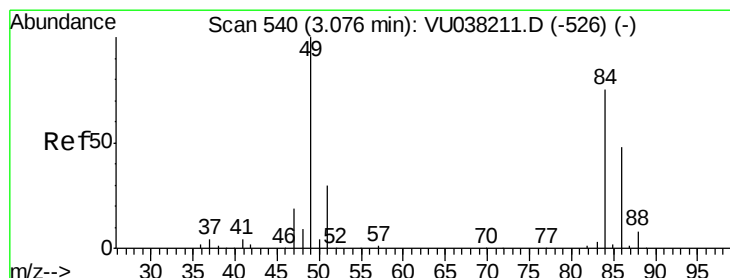
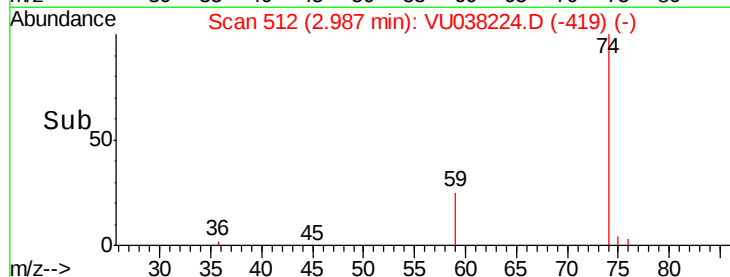
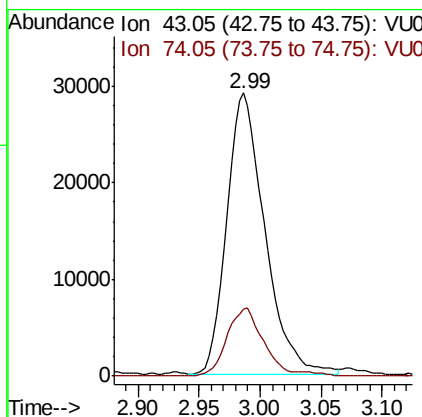
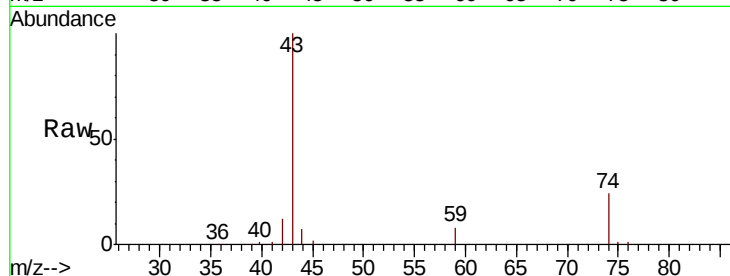




#15
Methvl Acetate
Concen: 4.732 ug/L
RT: 2.99 min Scan# 512
Delta R.T. 0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

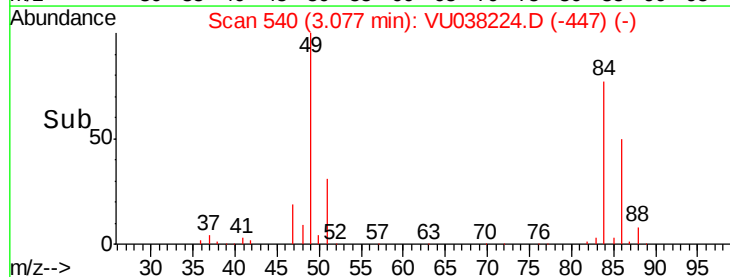
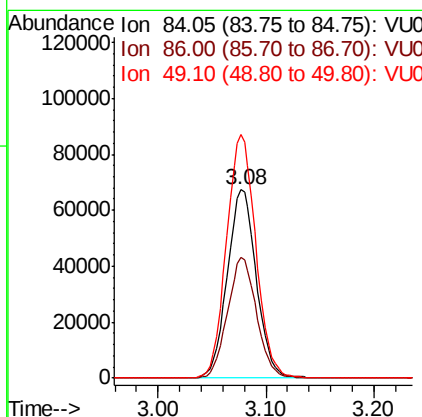
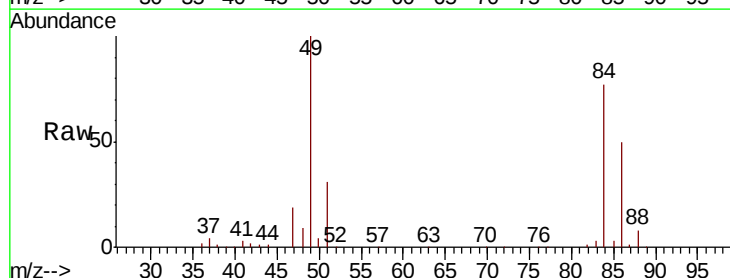
Instrument :
MSVOA_U
ClientSampleId :

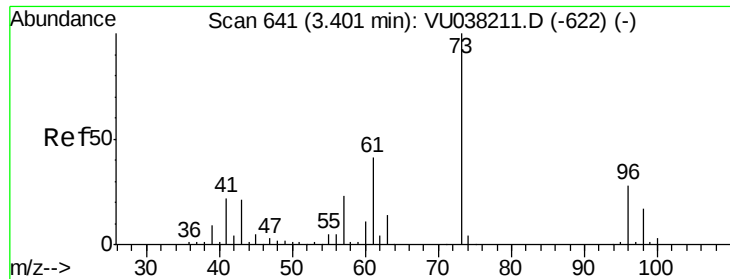
Tot Ion: 43 Resp: 63153
Ion Ratio Lower Upper
43 100
74 22.9 18.0 27.0



#16
Methylene chloride
Concen: 4.654 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Tgt Ion: 84 Resp: 126830
Ion Ratio Lower Upper
84 100
86 64.0 44.9 83.3
49 129.2 92.0 170.9

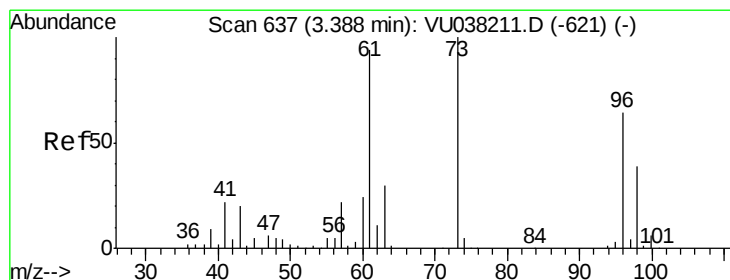
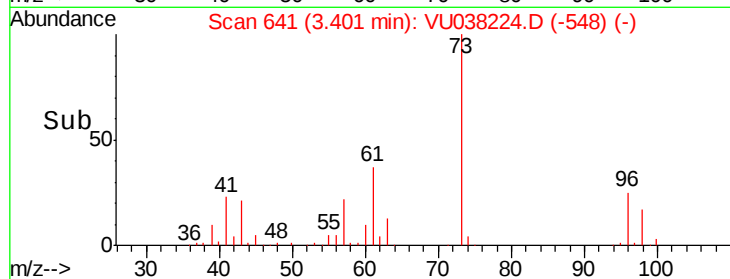
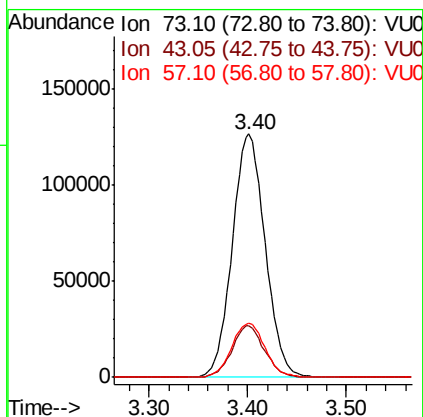
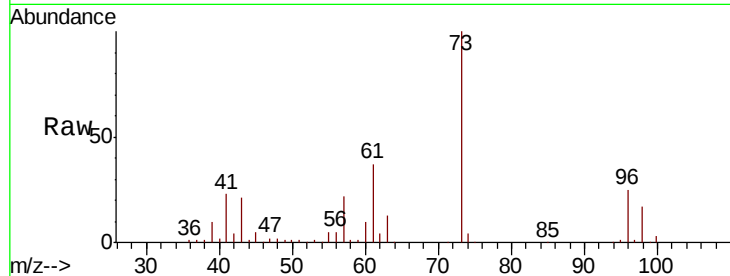




#17
Methvl tert-butvl Ether
Concen: 4.513 ug/L
RT: 3.40 min Scan# 641
Delta R.T. 0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

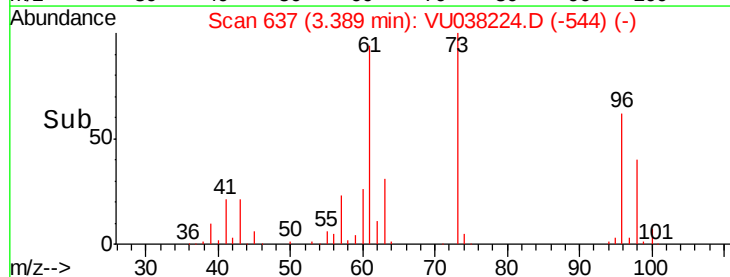
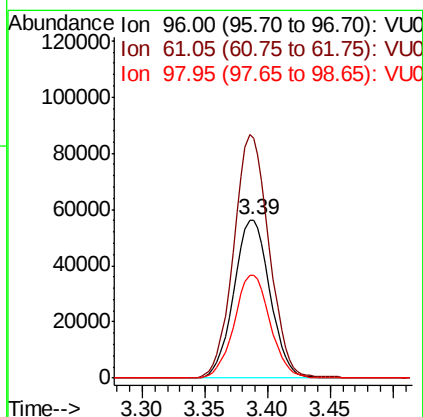
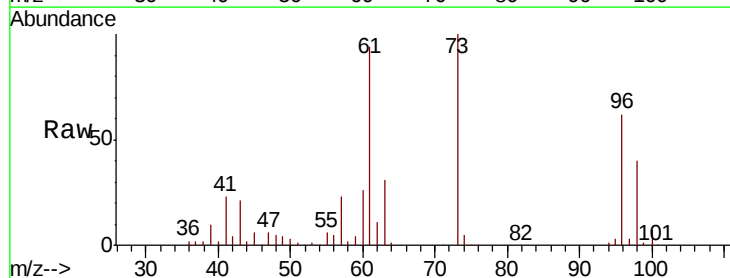
Instrument :
MSVOA_U
ClientSampleId :

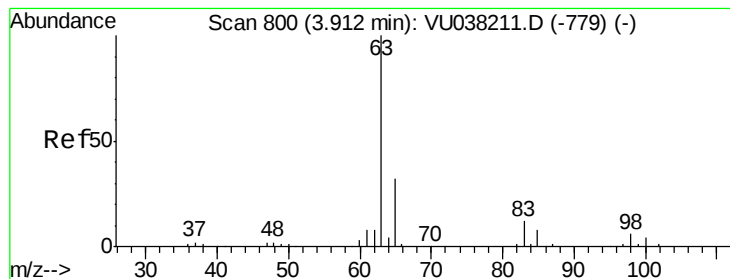
Tot Ion: 73 Resp: 293190
Ion Ratio Lower Upper
73 100
43 20.8 16.9 25.3
57 22.6 18.2 27.2



#18
trans-1,2-Dichloroethene
Concen: 4.419 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Tgt Ion: 96 Resp: 112803
Ion Ratio Lower Upper
96 100
61 151.6 102.1 189.5
98 65.2 45.6 84.8





#19

1,1-Dichloroethane

Concen: 4.639 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

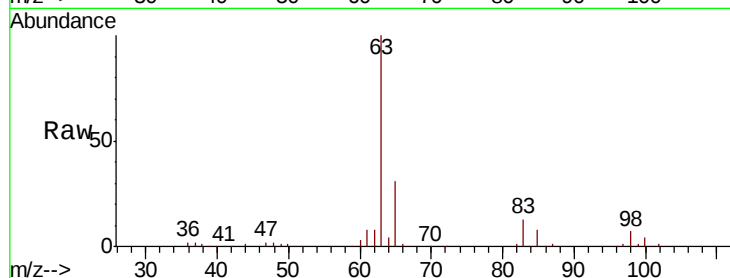
Tot Ion: 63 Resp: 231291

Ion Ratio Lower Upper

63 100

65 31.3 22.5 41.7

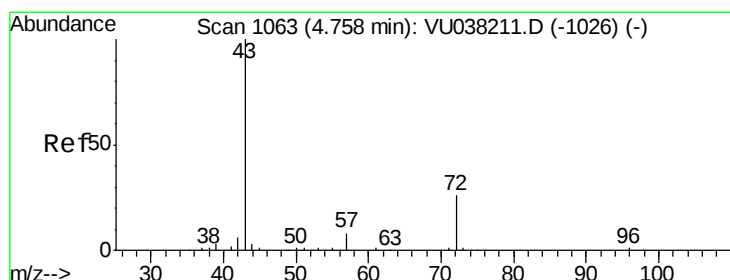
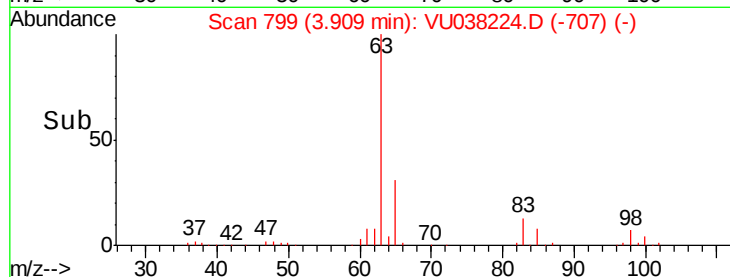
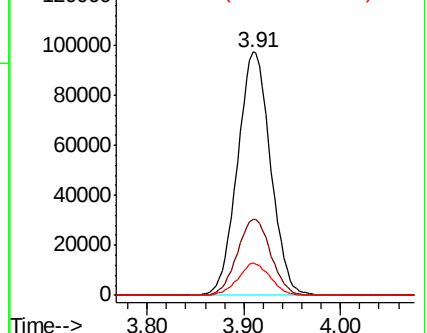
83 13.1 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU038211.D (-779) (-)

Ion 65.10 (64.80 to 65.80): VU038211.D (-779) (-)

Ion 83.05 (82.75 to 83.75): VU038211.D (-779) (-)



#21

2-Butanone

Concen: 52.203 ug/L

RT: 4.76 min Scan# 1062

Delta R.T. -0.00 min

Lab File: VU038224.D

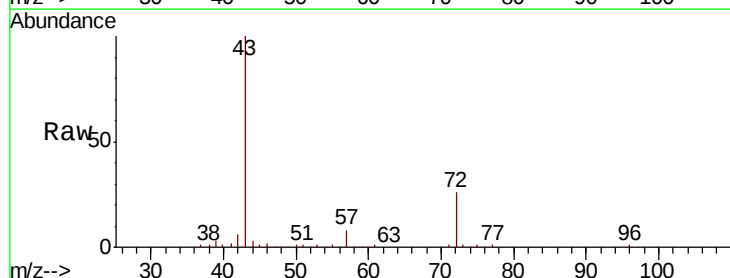
Acq: 18 May 2020 16:56

Tgt Ion: 43 Resp: 439555

Ion Ratio Lower Upper

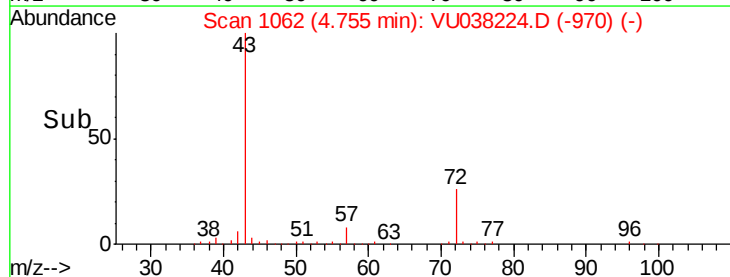
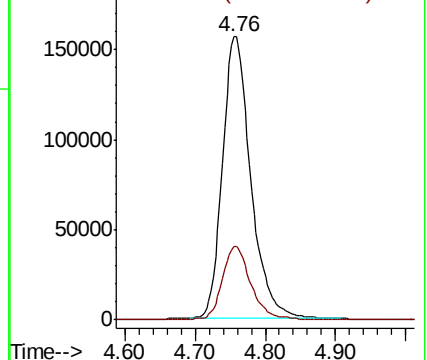
43 100

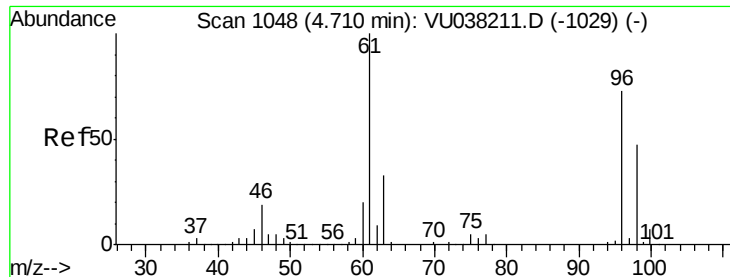
72 26.3 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU038211.D (-1026) (-)

Ion 72.10 (71.80 to 72.80): VU038211.D (-1026) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.622 ug/L

RT: 4.71 min Scan# 1047

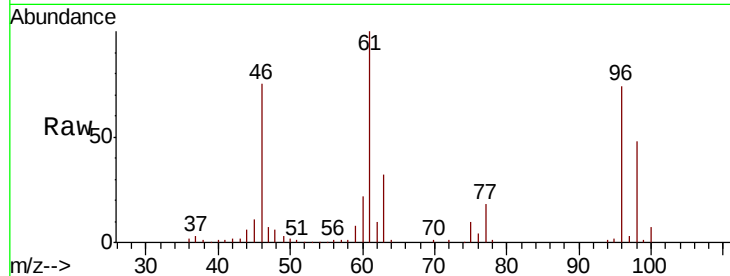
Delta R.T. -0.00 min

Lab File: VU038224.D

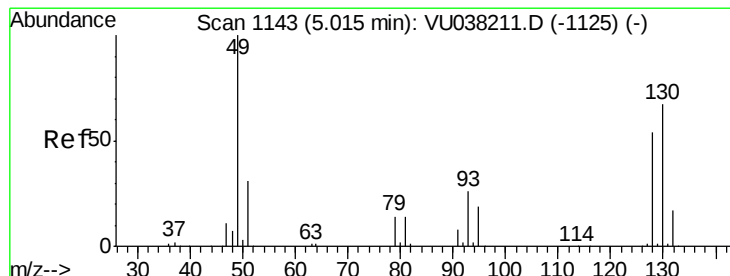
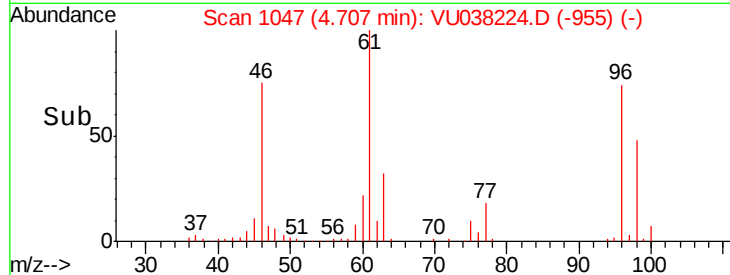
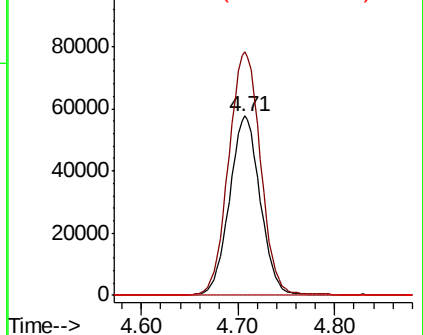
Acq: 18 May 2020 16:56

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	96	Resp:	127147
Ion	Ratio	Lower	Upper
96	100		
61	135.7	95.3	176.9
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: 4.727 ug/L

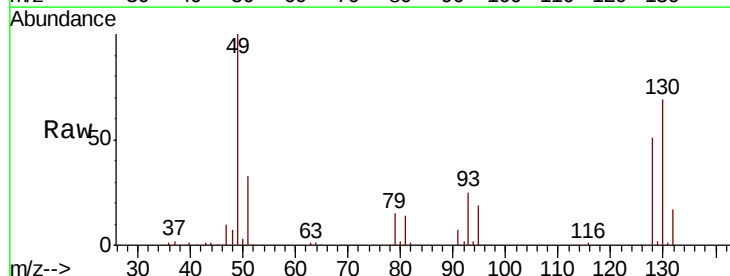
RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

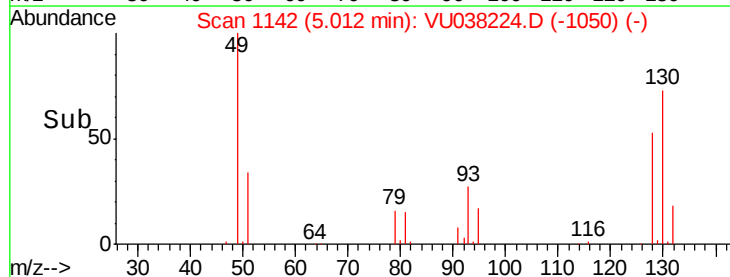
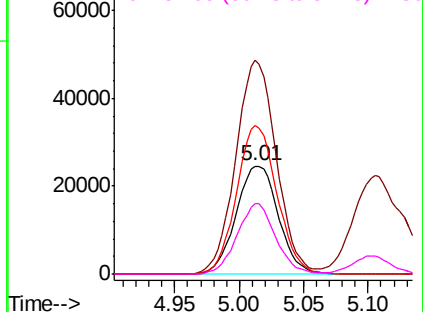
Lab File: VU038224.D

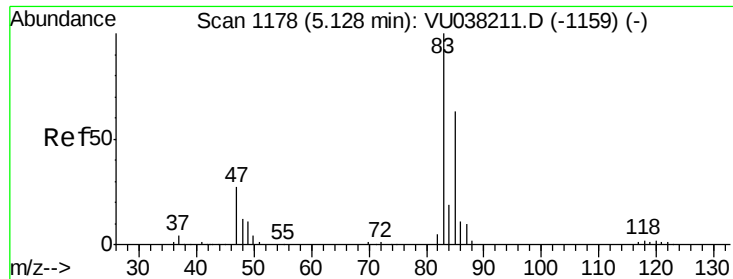
Acq: 18 May 2020 16:56

Tgt Ion:	128	Resp:	55951
Ion	Ratio	Lower	Upper
128	100		
49	197.6	135.6	251.8
130	137.1	91.4	169.8
51	65.8	49.6	74.4



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

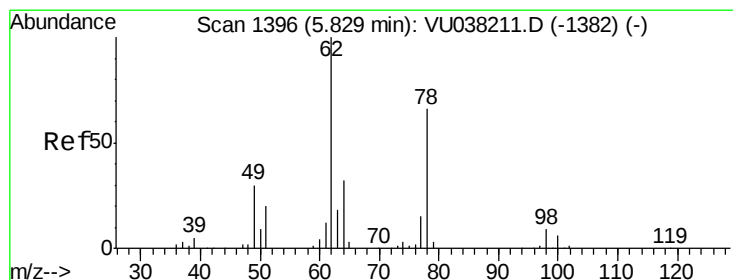
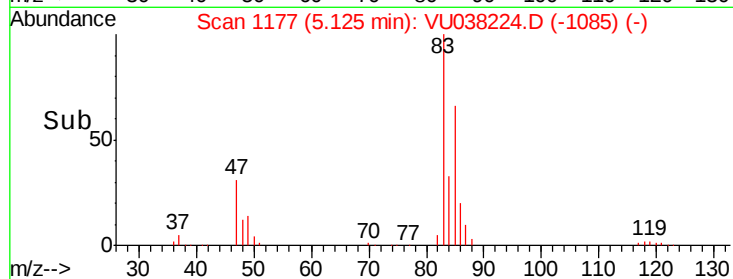
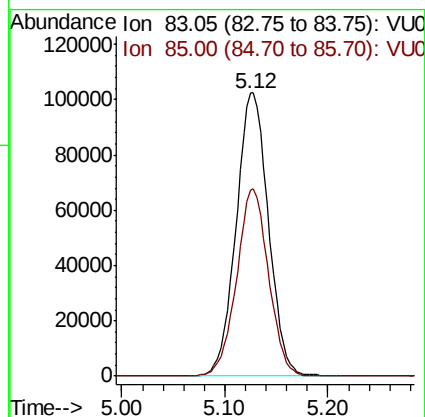
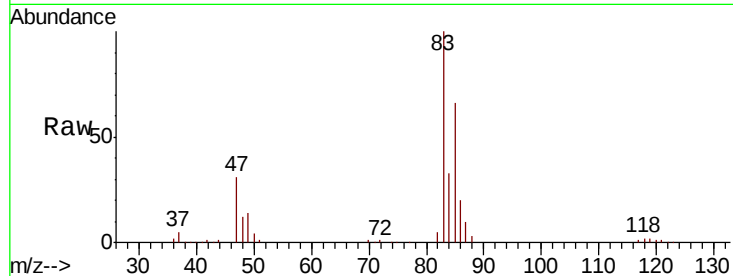




#25
Chloroform
Concen: 4.793 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

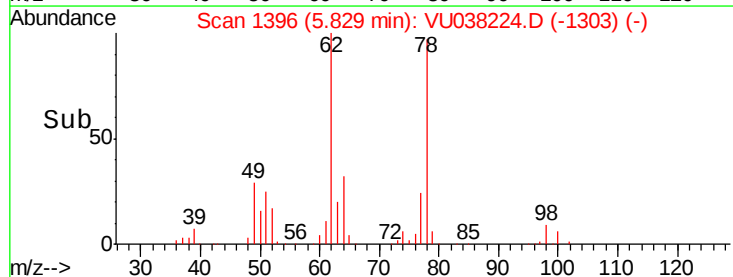
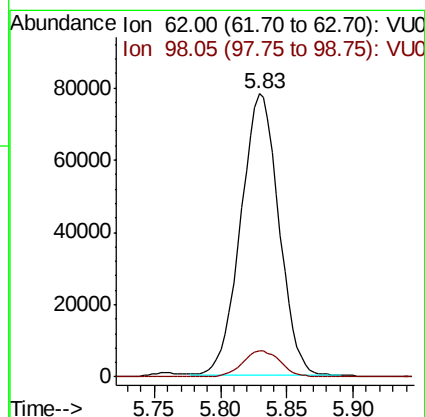
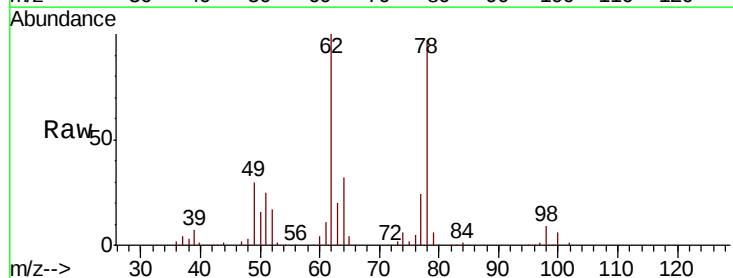
Instrument :
MSVOA_U
ClientSampled :

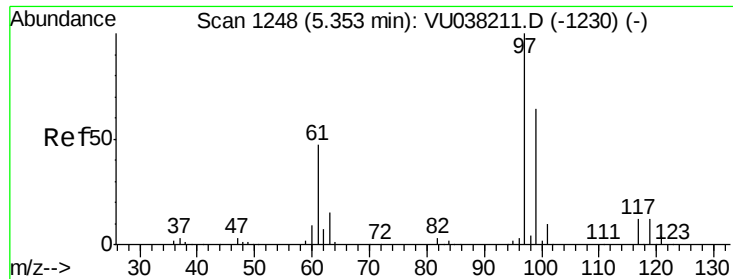
Tot Ion: 83 Resp: 222905
Ion Ratio Lower Upper
83 100
85 65.7 46.2 85.8



#27
1,2-Dichloroethane
Concen: 4.766 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Tgt Ion: 62 Resp: 156456
Ion Ratio Lower Upper
62 100
98 9.3 7.8 11.8

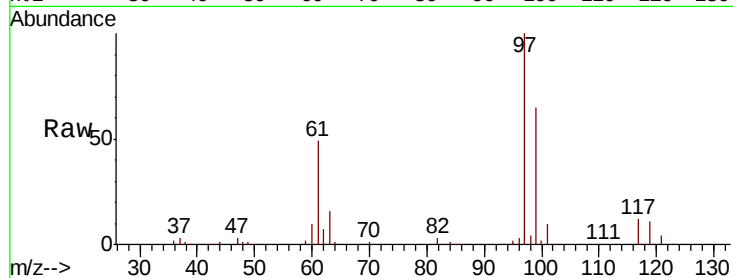




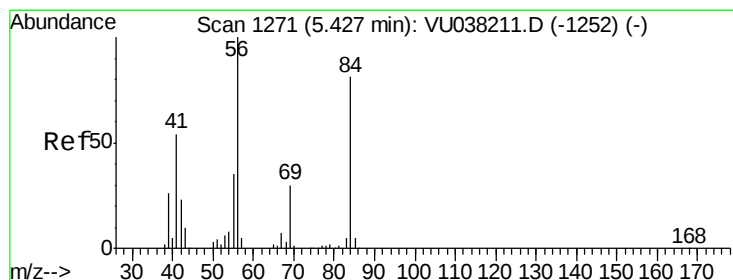
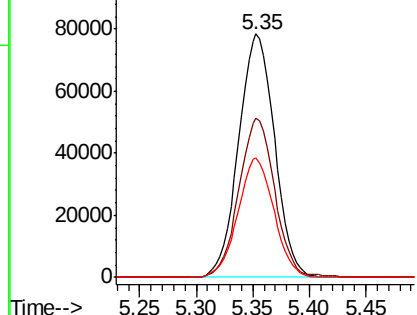
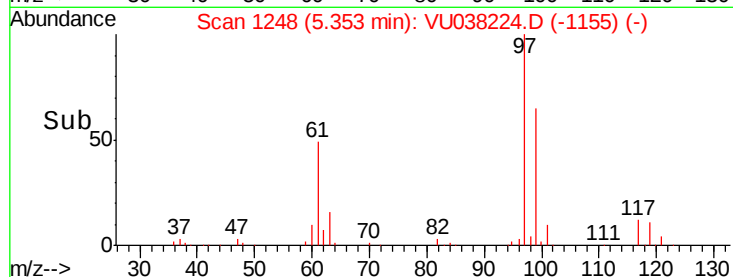
#29
 1,1,1-Trichloroethane
 Concen: 4.636 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 173679
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.0 76.4
 61 49.0 38.2 57.4

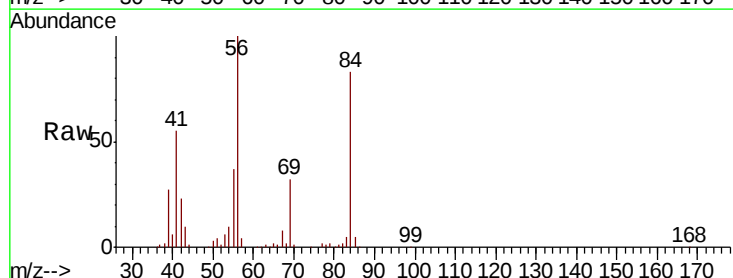


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

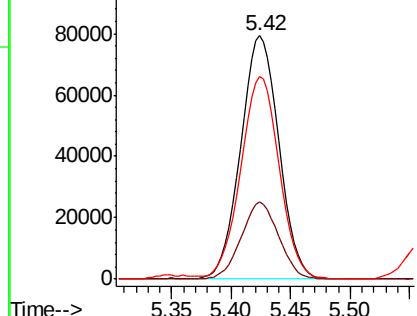
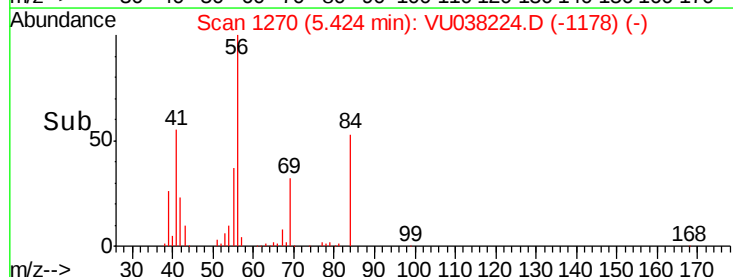


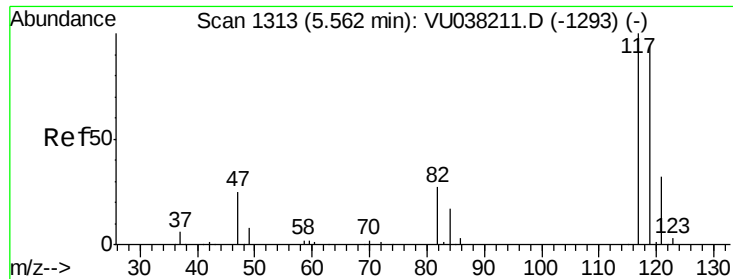
#30
 Cyclohexane
 Concen: 3.989 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Tgt Ion: 56 Resp: 176463
 Ion Ratio Lower Upper
 56 100
 69 30.9 24.2 36.4
 84 83.7 68.5 102.7



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: 4.498 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

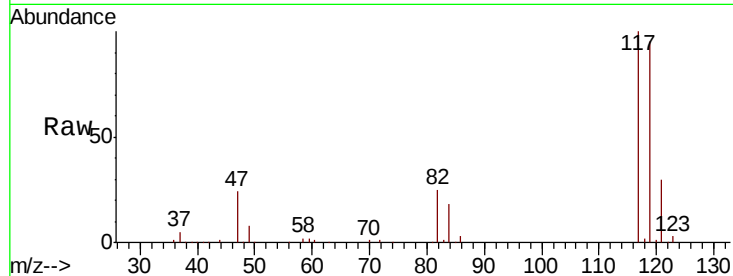
ClientSampleId :

Tot Ion:117 Resp: 135446

Ion Ratio Lower Upper

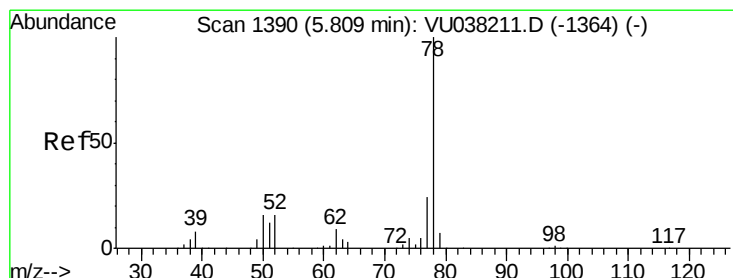
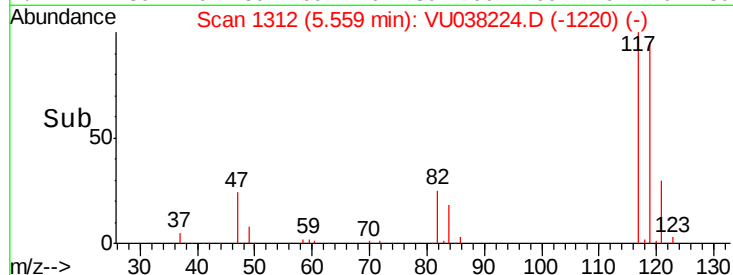
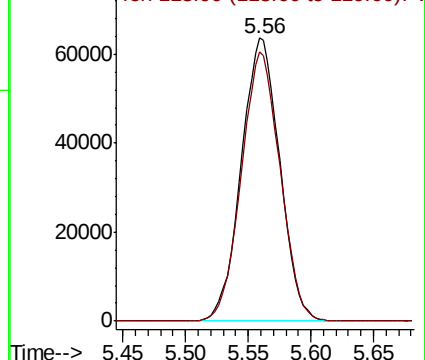
117 100

119 95.8 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.765 ug/L

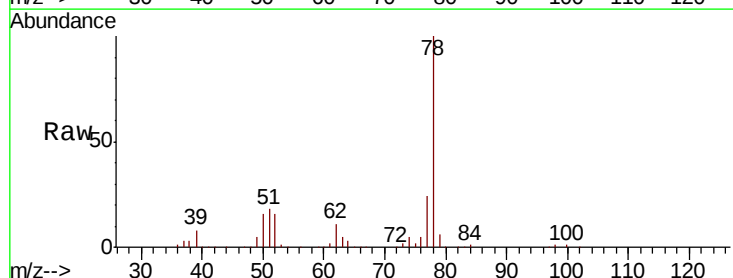
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

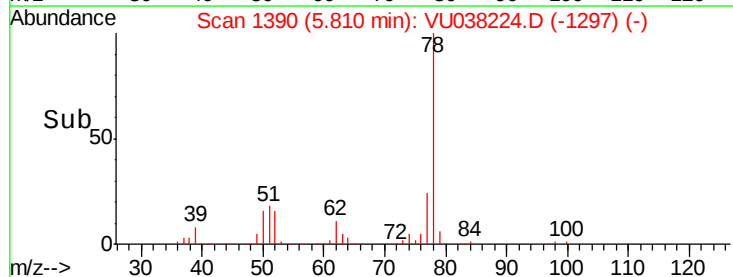
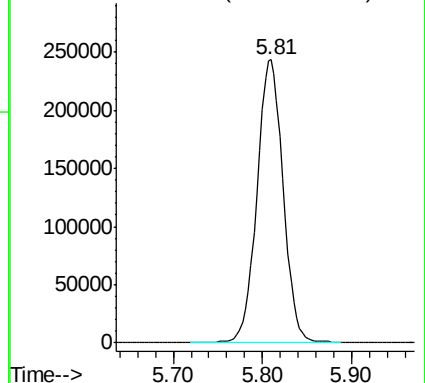
Lab File: VU038224.D

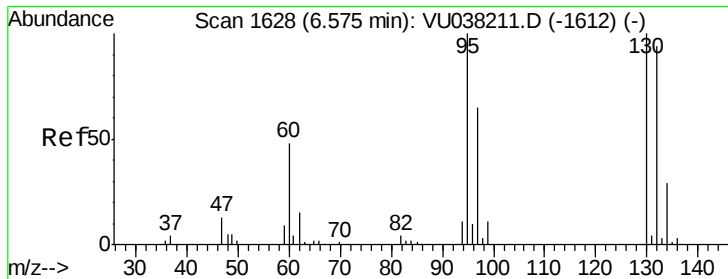
Acq: 18 May 2020 16:56

Tgt Ion: 78 Resp: 498980



Abundance Ion 78.10 (77.80 to 78.80): VU0

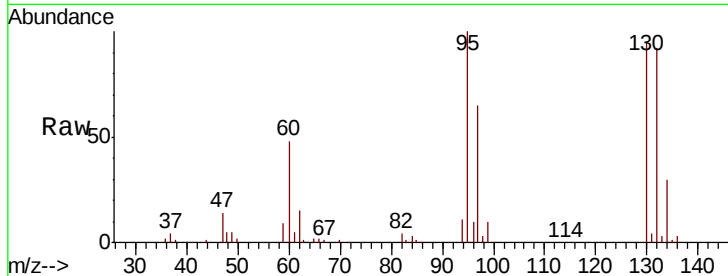




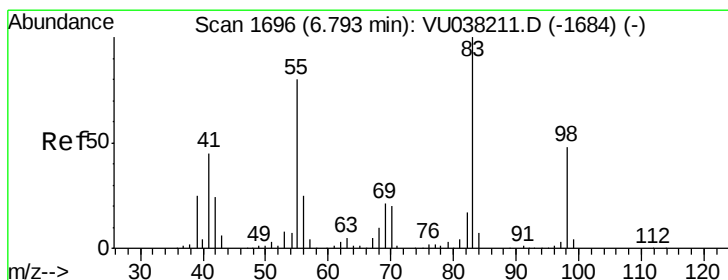
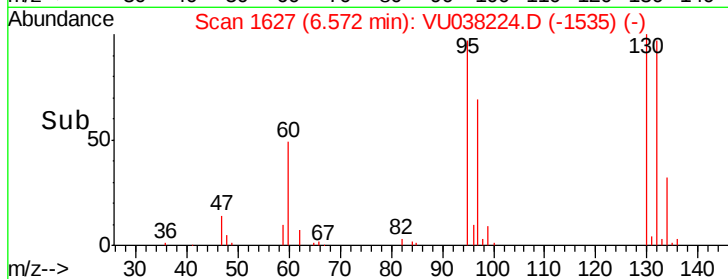
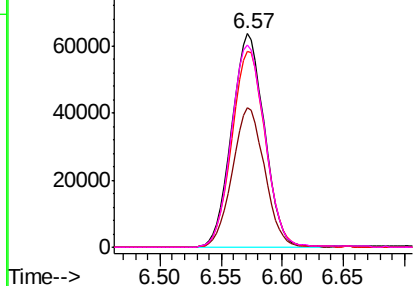
#34
 Trichloroethene
 Concen: 4.546 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 119072
 Ion Ratio Lower Upper
 95 100
 97 65.4 44.9 83.3
 132 91.7 63.3 117.5
 130 94.9 65.7 122.1

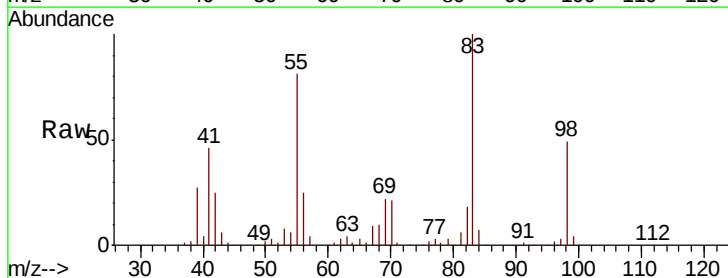


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

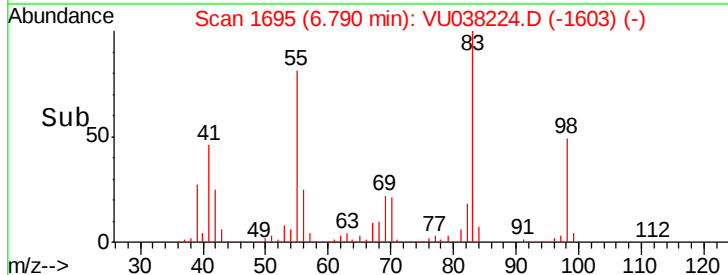
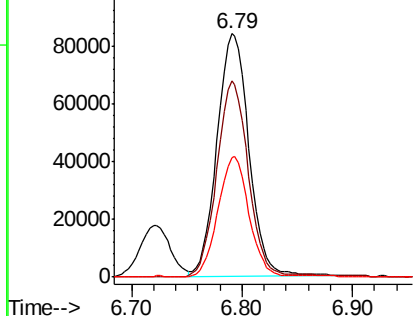


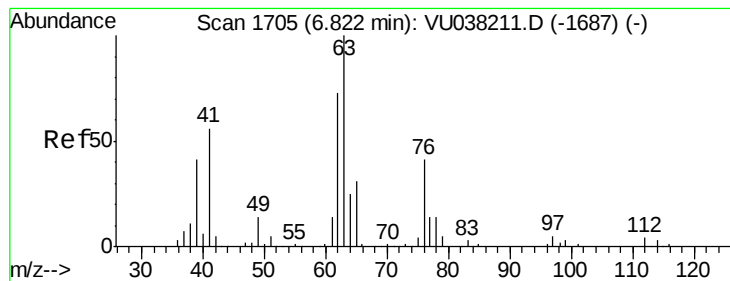
#35
 Methylcyclohexane
 Concen: 3.967 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Tgt Ion: 83 Resp: 168314
 Ion Ratio Lower Upper
 83 100
 55 79.4 66.7 100.1
 98 48.5 39.4 59.2



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





#37

1,2-Dichloropropane

Concen: 4.655 ug/L

RT: 6.82 min Scan# 1704

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

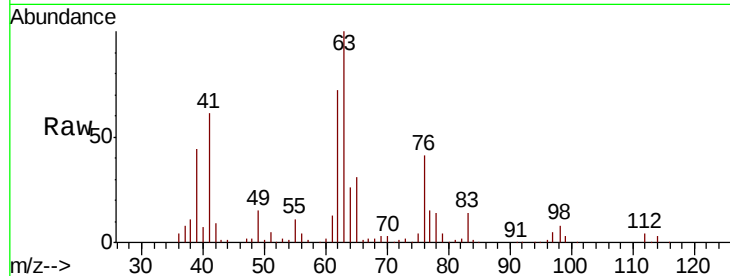
ClientSampleId :

Tot Ion: 63 Resp: 132406

Ion Ratio Lower Upper

63 100

112 4.2 3.1 4.7



Abundance Ion 63.10 (62.80 to 63.80): VU038211.D (-1687) (-)

Ion 112.10 (111.80 to 112.80): VU038211.D (-1687) (-)

6.82

80000

60000

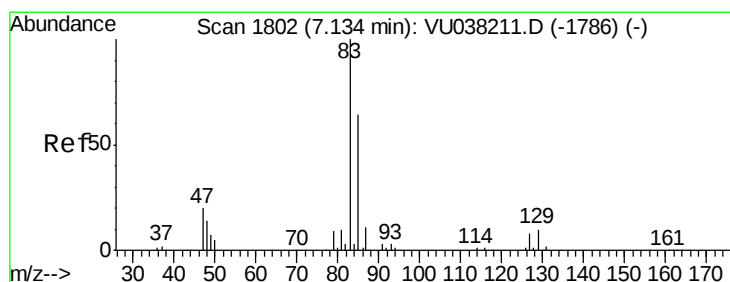
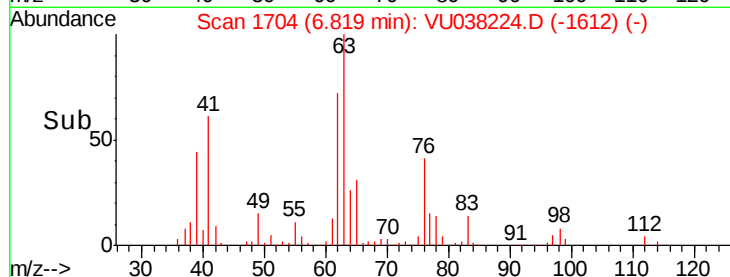
40000

20000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 4.773 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

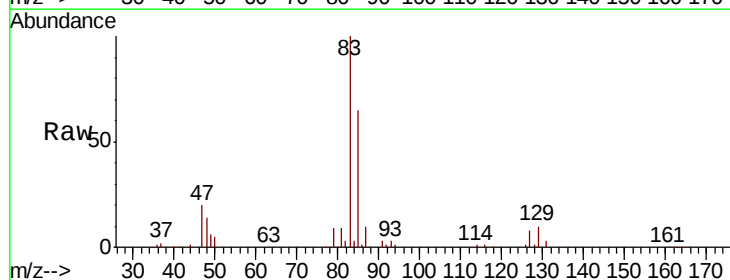
Tgt Ion: 83 Resp: 156947

Ion Ratio Lower Upper

83 100

85 64.9 44.6 82.8

127 7.8 6.4 9.6



Abundance Ion 82.95 (82.65 to 83.65): VU038211.D (-1786) (-)

Ion 85.00 (84.70 to 85.70): VU038211.D (-1786) (-)

Ion 126.90 (126.60 to 127.60): VU038211.D (-1786) (-)

7.13

120000

100000

80000

60000

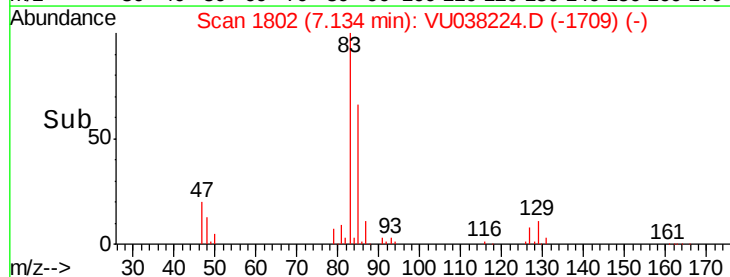
40000

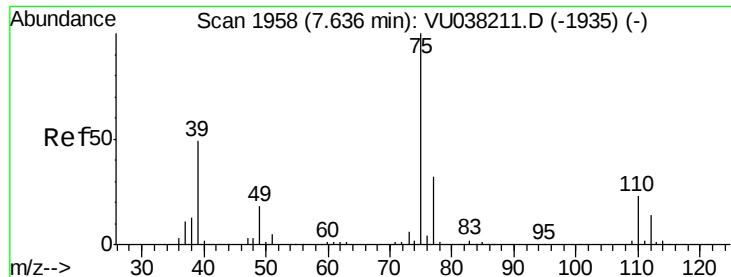
20000

0

7.05 7.10 7.15 7.20

Time-->



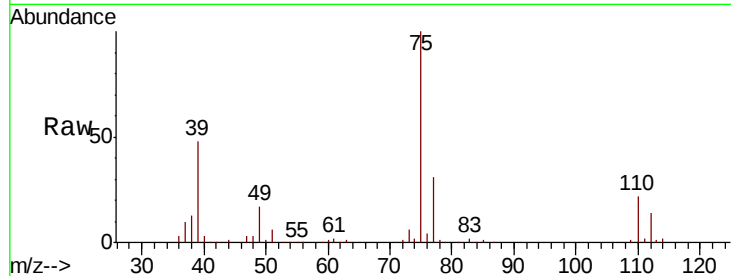


#39

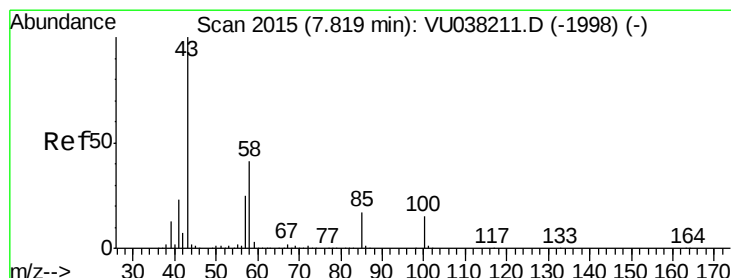
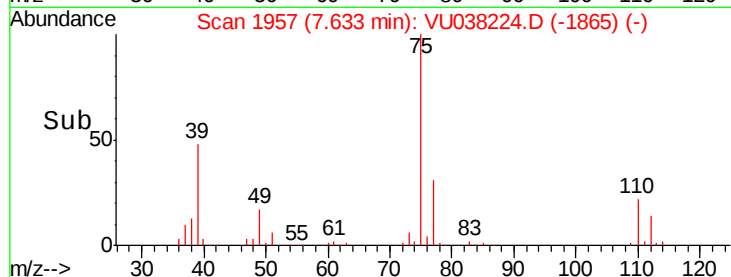
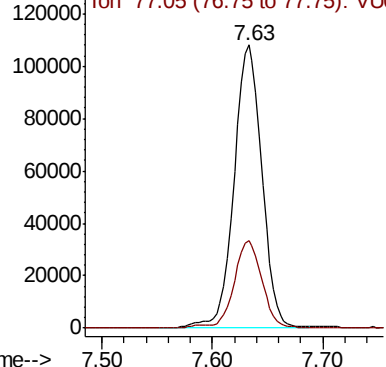
cis-1,3-Dichloropropene
Concen: 4.663 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 189818
Ion Ratio Lower Upper
75 100
77 30.9 22.4 41.6



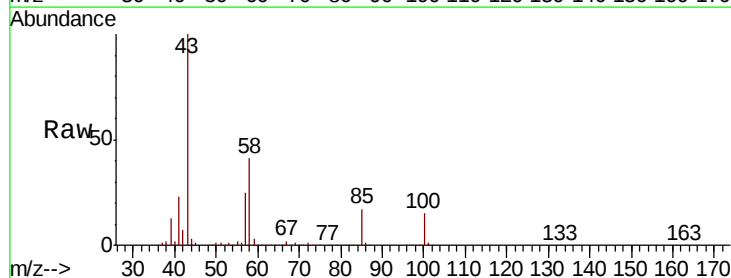
Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0



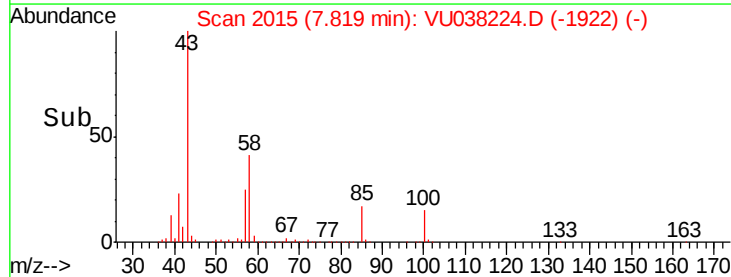
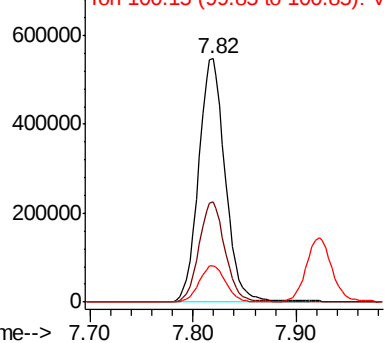
#40

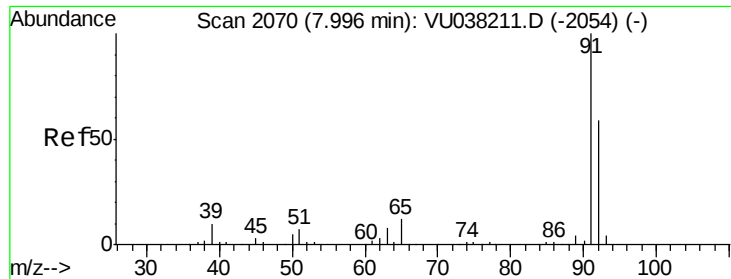
4-Methyl-2-pentanone
Concen: 49.847 ug/L
RT: 7.82 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Tgt Ion: 43 Resp: 982630
Ion Ratio Lower Upper
43 100
58 40.6 32.2 48.4
100 15.1 12.1 18.1



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





#42

Toluene

Concen: 4.547 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

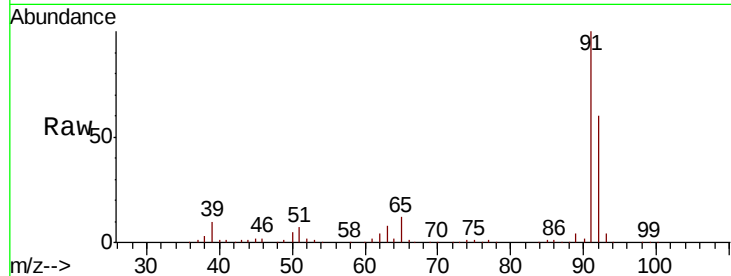
ClientSampleId :

Tot Ion: 91 Resp: 502665

Ion Ratio Lower Upper

91 100

92 59.8 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038211.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038211.D (-2054) (-)

7.99

300000

250000

200000

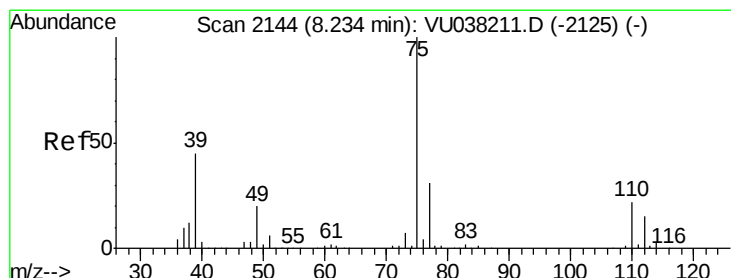
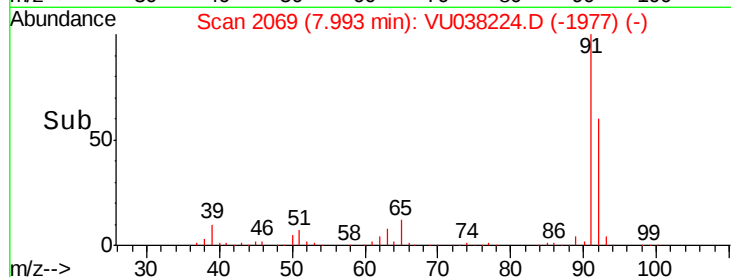
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.695 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU038224.D

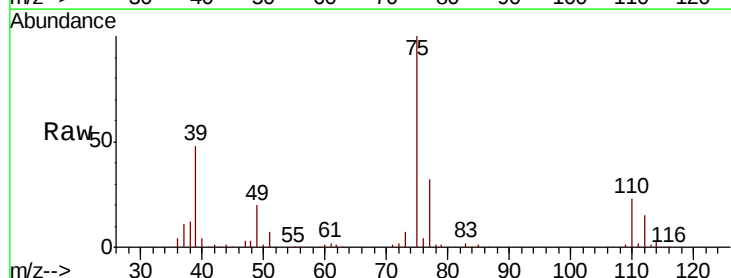
Acq: 18 May 2020 16:56

Tgt Ion: 75 Resp: 162512

Ion Ratio Lower Upper

75 100

77 32.5 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VU038211.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU038211.D (-2125) (-)

8.23

100000

80000

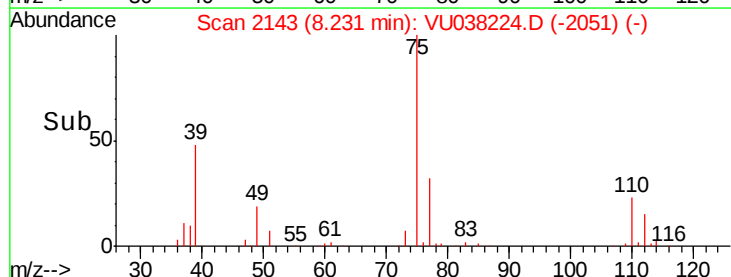
60000

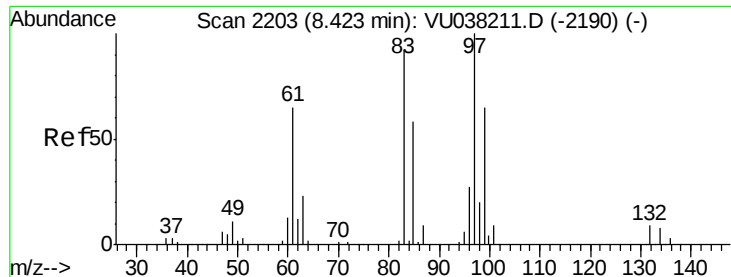
40000

20000

0

Time-->

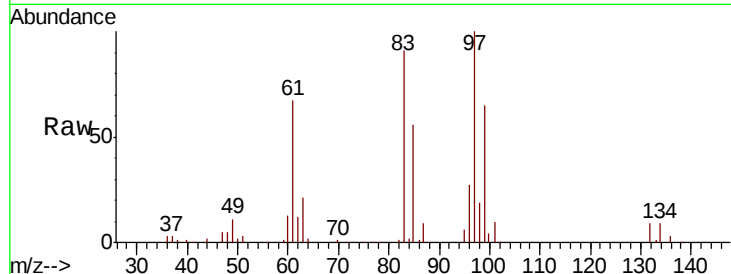




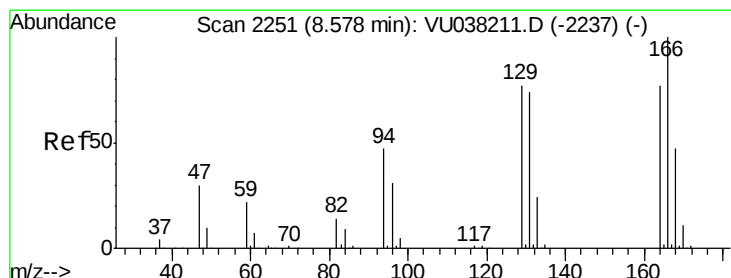
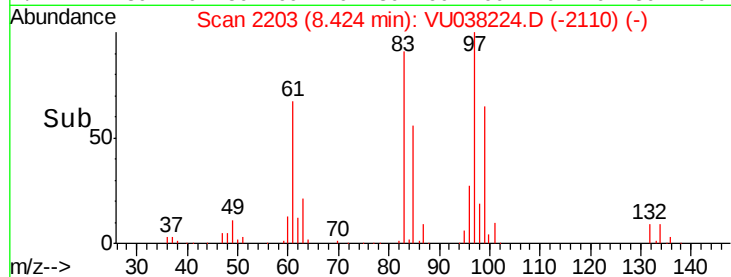
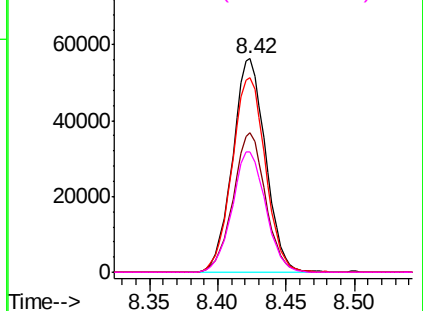
#45
 1,1,2-Trichloroethane
 Concen: 4.790 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	94605
Ion	Ratio	Lower	Upper
97	100		
99	65.4	44.0	81.6
83	91.4	59.6	110.8
85	56.4	41.3	76.7

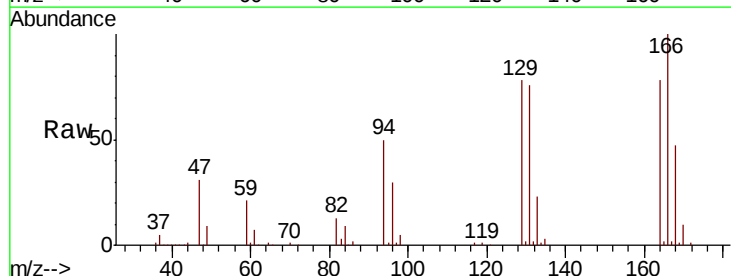


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

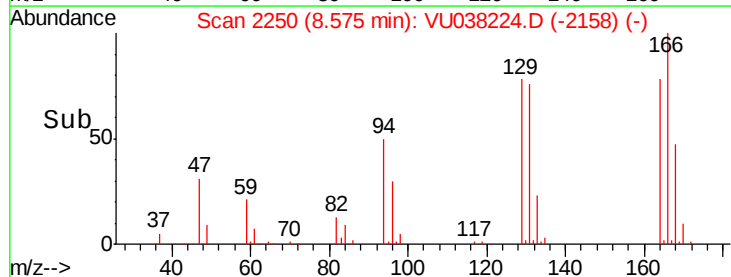
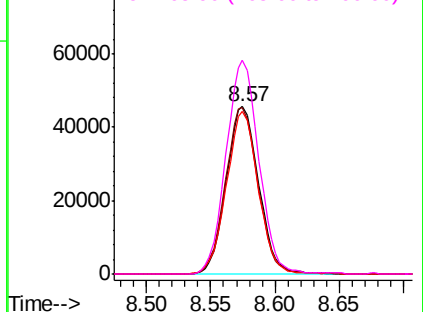


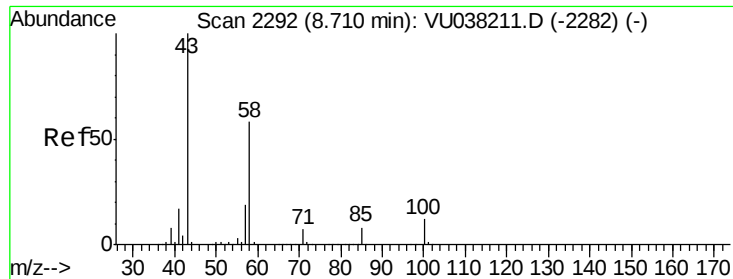
#47
 Tetrachloroethene
 Concen: 4.340 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Tgt Ion:	164	Resp:	79502
Ion	Ratio	Lower	Upper
164	100		
129	99.7	68.8	127.8
131	96.8	66.8	124.2
166	127.6	88.9	165.1



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

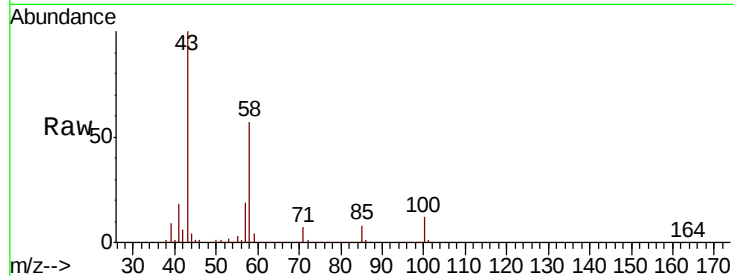




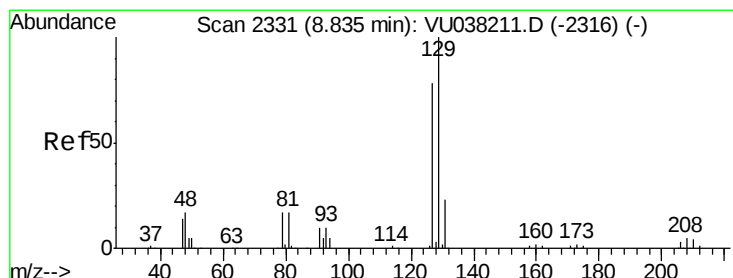
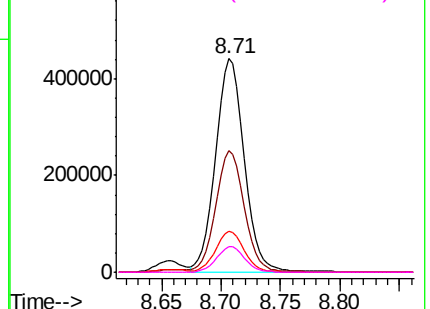
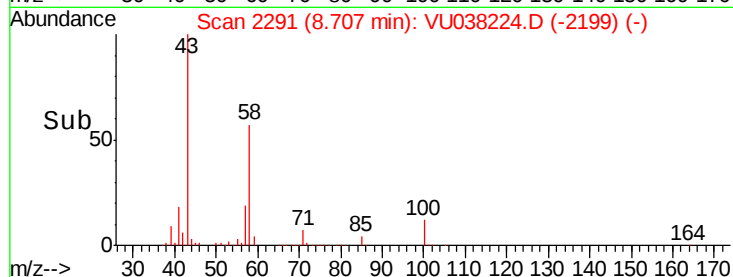
#48
2-Hexanone
Concen: 50.921 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 735131
Ion Ratio Lower Upper
43 100
58 56.8 45.2 67.8
57 19.6 15.5 23.3
100 11.9 9.5 14.3

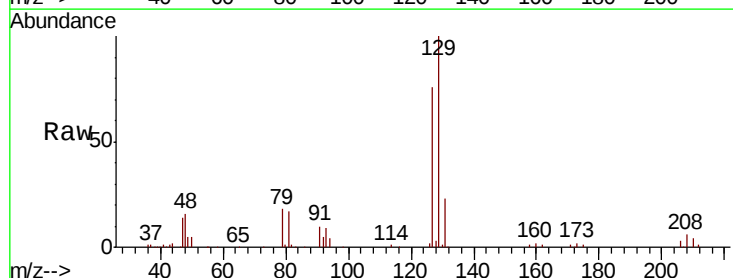


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

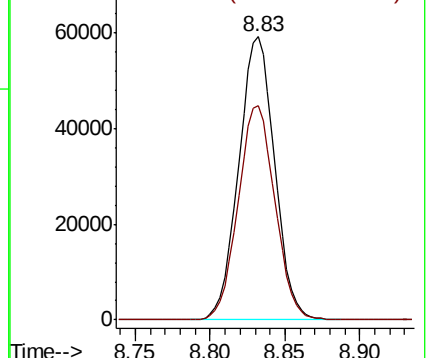
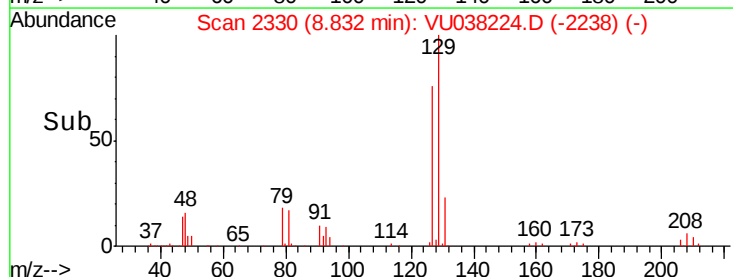


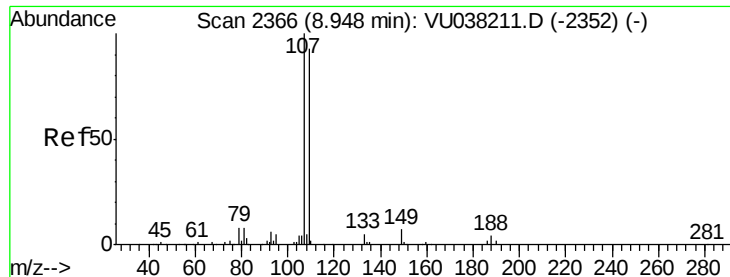
#49
Dibromochloromethane
Concen: 4.829 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Tgt Ion: 129 Resp: 98984
Ion Ratio Lower Upper
129 100
127 75.7 55.6 103.4



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

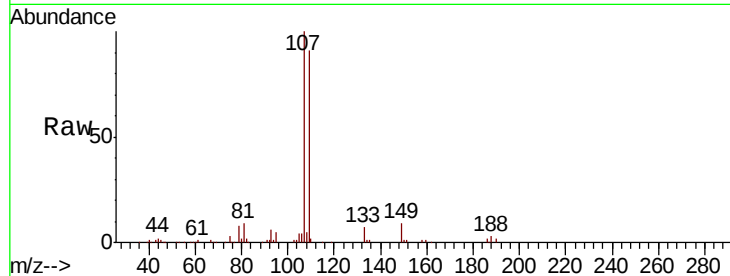




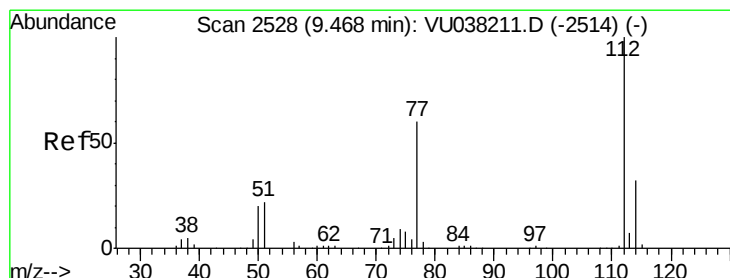
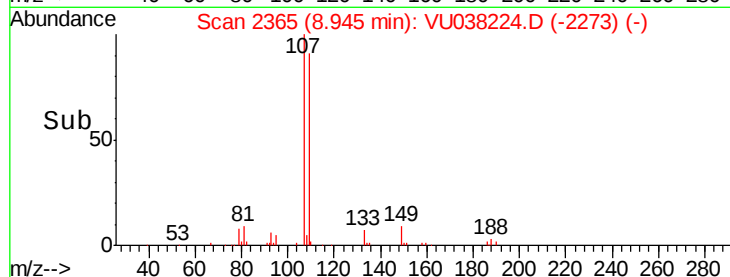
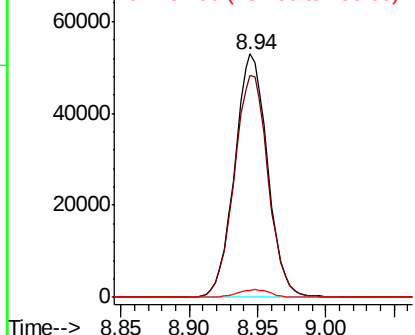
#50
1,2-Dibromoethane
Concen: 4.821 ug/L
RT: 8.94 min Scan# 2365
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:107 Resp: 88378
Ion Ratio Lower Upper
107 100
109 91.3 65.1 120.9
188 2.9 2.6 4.0

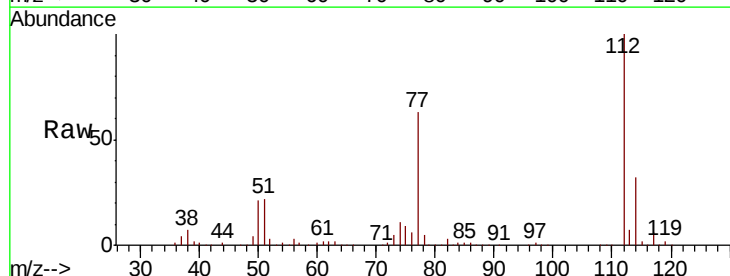


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

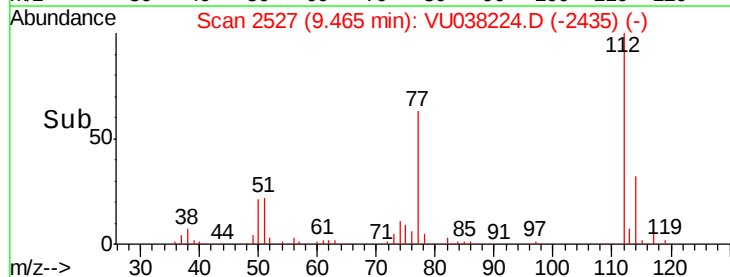
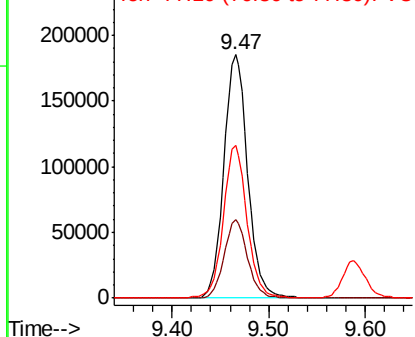


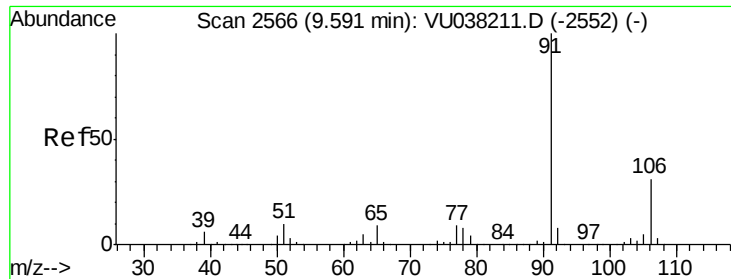
#51
Chlorobenzene
Concen: 4.606 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Tgt Ion:112 Resp: 315947
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.7
77 62.9 49.9 74.9



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





#52

Ethylbenzene

Concen: 4.393 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

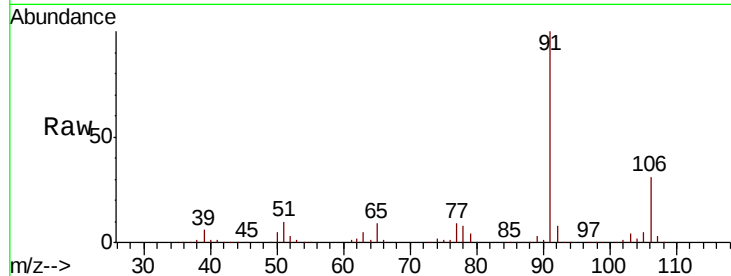
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 525965

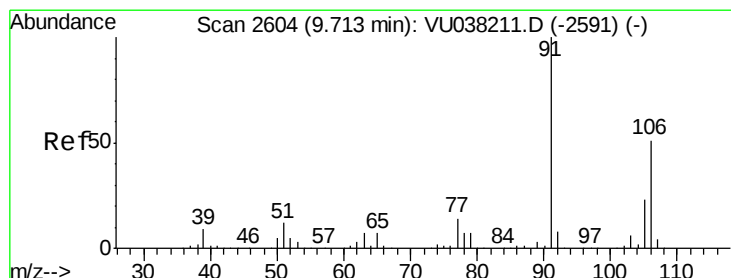
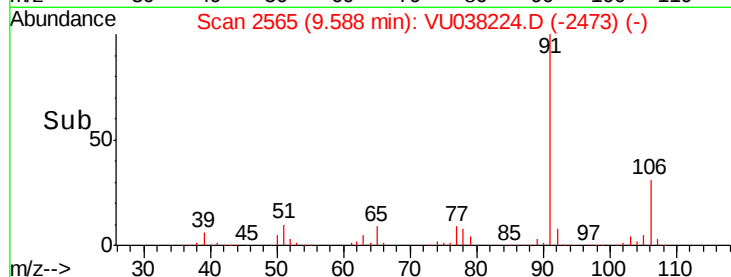
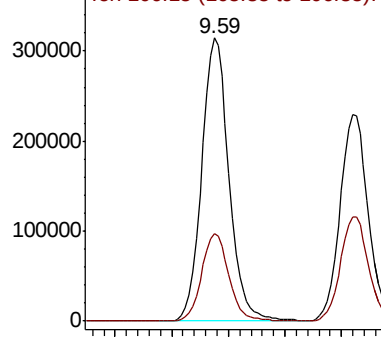
Ion Ratio Lower Upper

91 100

106 31.0 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU038211.D (-2552) (-)



#53

m,p-Xylene

Concen: 4.430 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038224.D

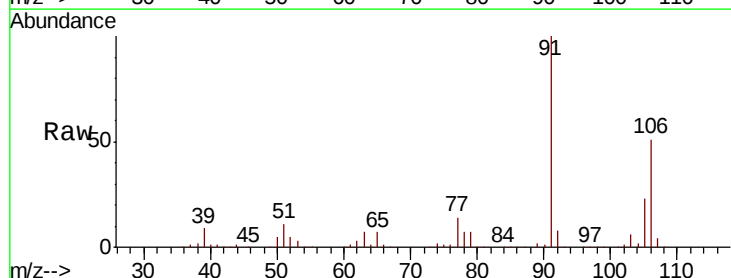
Acq: 18 May 2020 16:56

Tgt Ion: 106 Resp: 203416

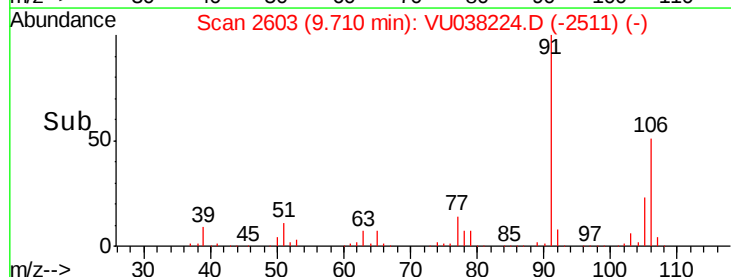
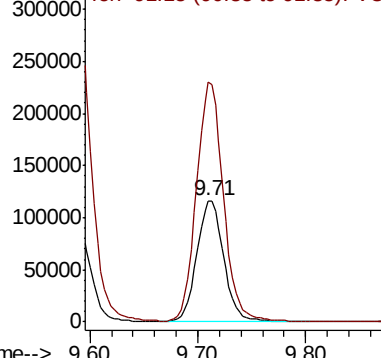
Ion Ratio Lower Upper

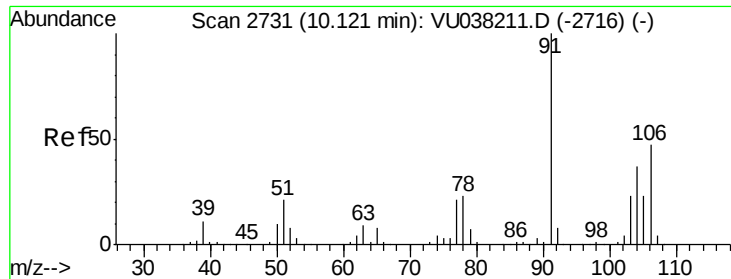
106 100

91 197.7 142.1 263.9



Abundance Ion 106.15 (105.85 to 106.85): VU038211.D (-2591) (-)

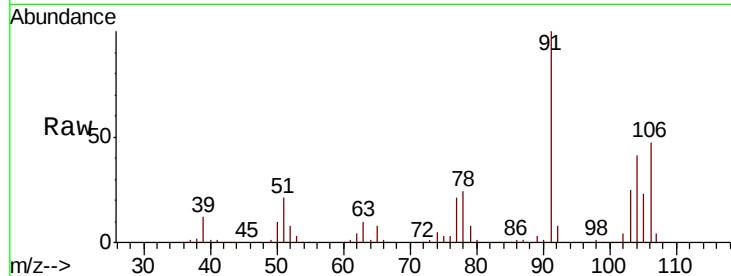




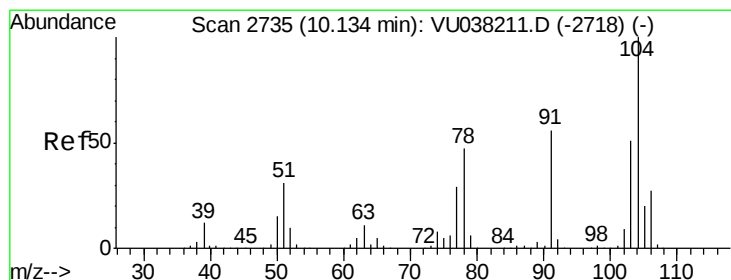
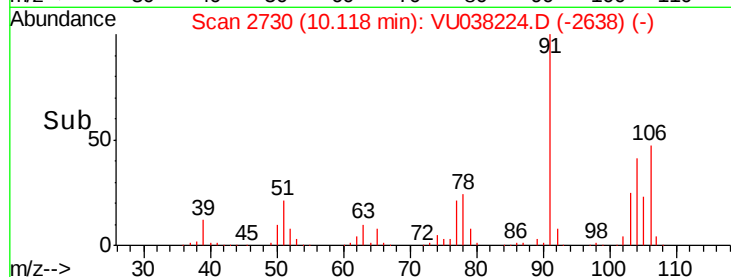
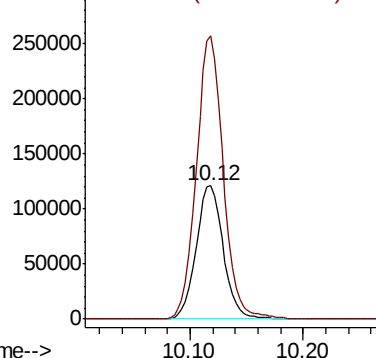
#54
o-Xylene
Concen: 4.562 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 202500
Ion Ratio Lower Upper
106 100
91 212.5 148.5 275.9

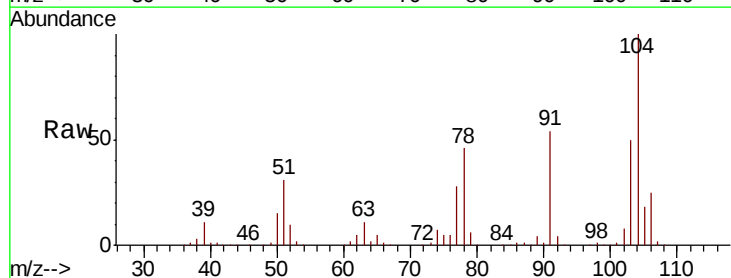


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

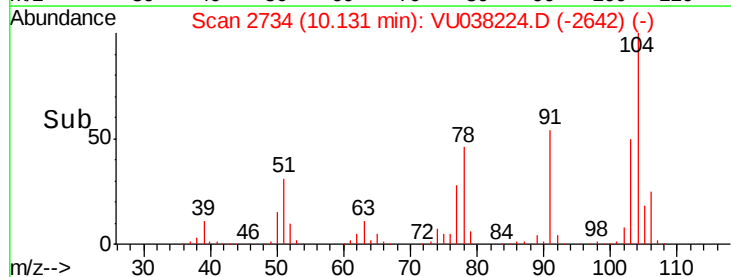
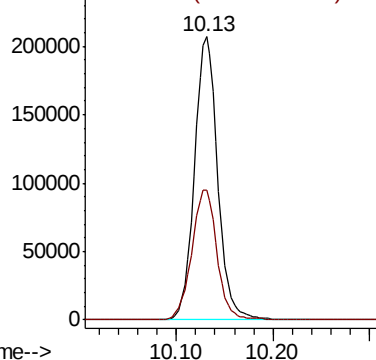


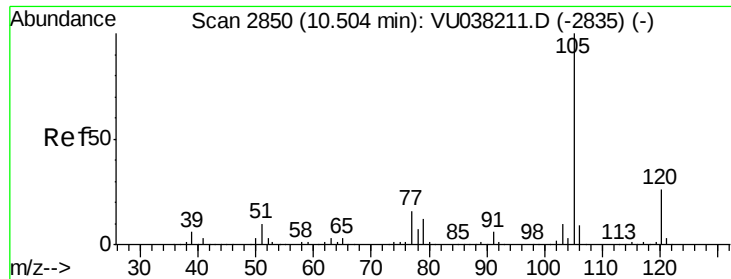
#55
Styrene
Concen: 4.613 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU038224.D
Acq: 18 May 2020 16:56

Tgt Ion:104 Resp: 343742
Ion Ratio Lower Upper
104 100
78 46.1 32.3 59.9



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





#56

Isopropylbenzene

Concen: 4.398 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

ClientSampled :

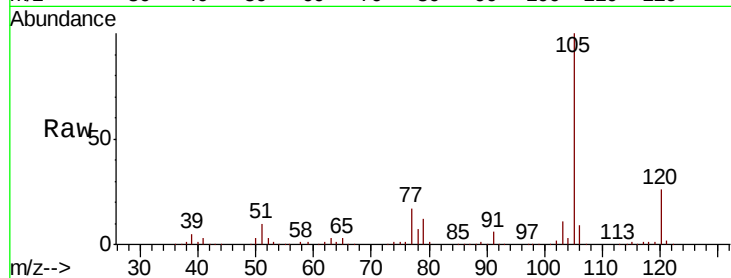
Tot Ion:105 Resp: 501515

Ion Ratio Lower Upper

105 100

120 25.7 21.0 31.6

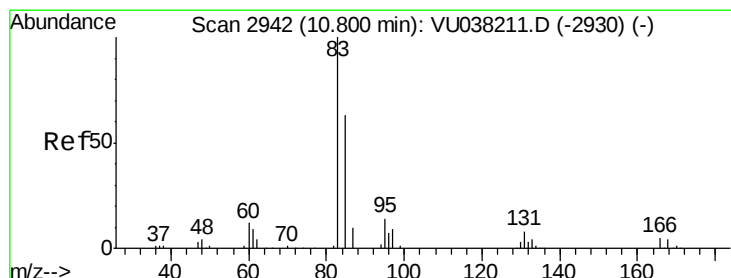
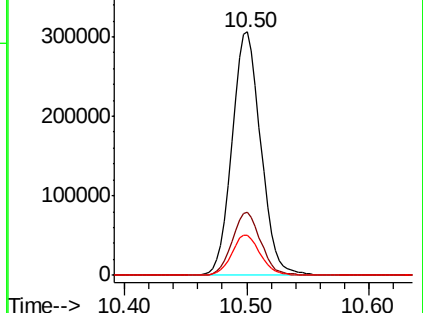
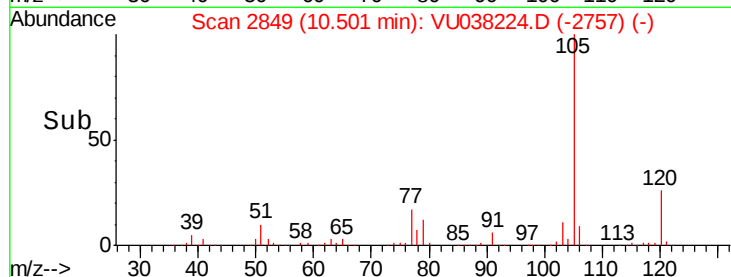
77 16.5 13.0 19.4



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: 4.866 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

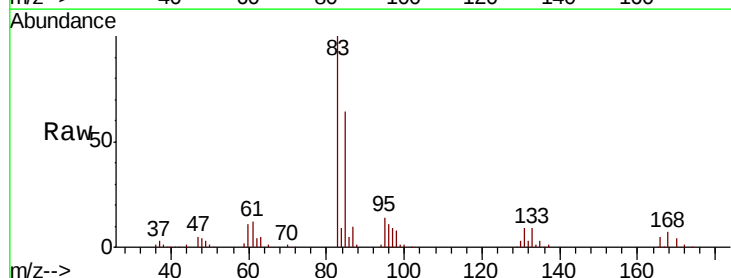
Tgt Ion: 83 Resp: 122025

Ion Ratio Lower Upper

83 100

85 63.9 47.0 87.2

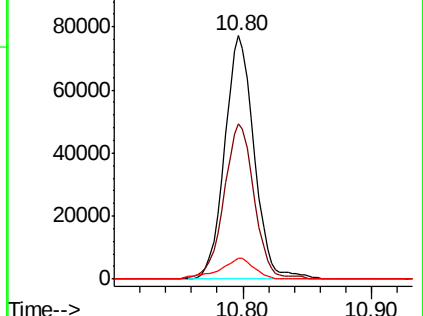
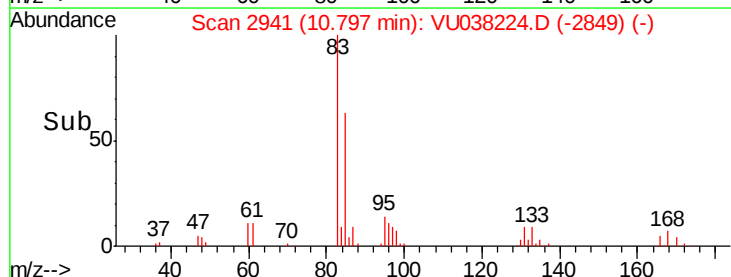
131 8.6 7.7 11.5

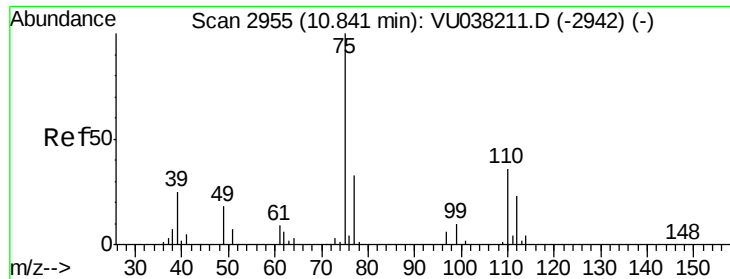


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.860 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

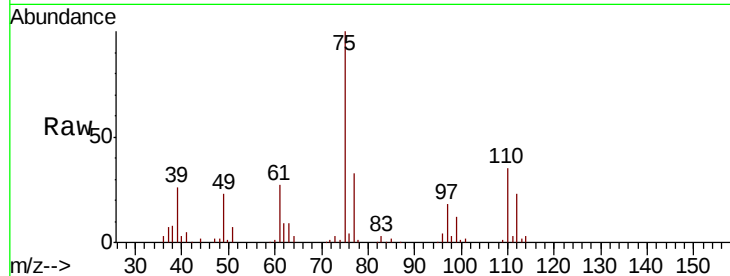
ClientSampleId :

Tot Ion: 75 Resp: 92773

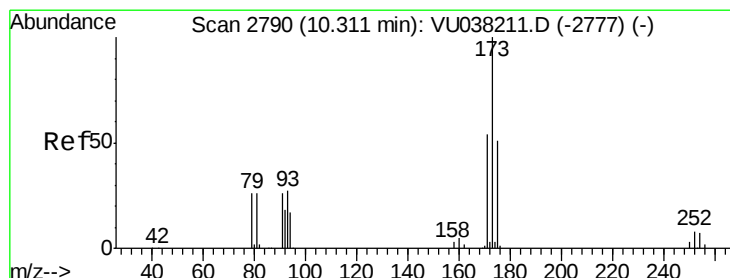
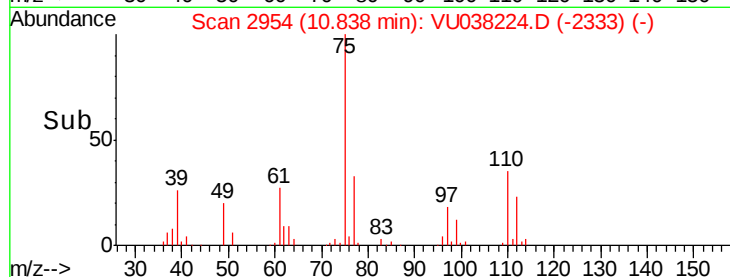
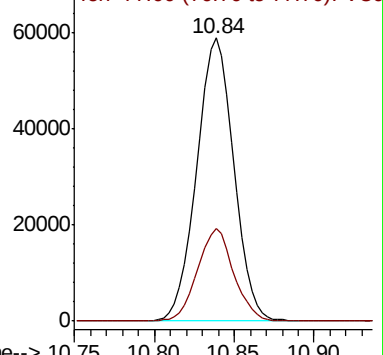
Ion Ratio Lower Upper

75 100

77 32.1 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU038211.D (-2942) (-)



#61

Bromoform

Concen: 4.889 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

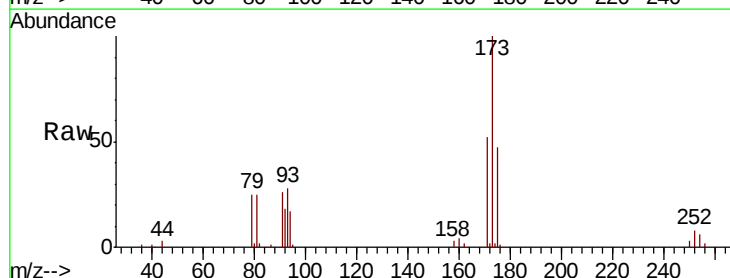
Tgt Ion: 173 Resp: 52754

Ion Ratio Lower Upper

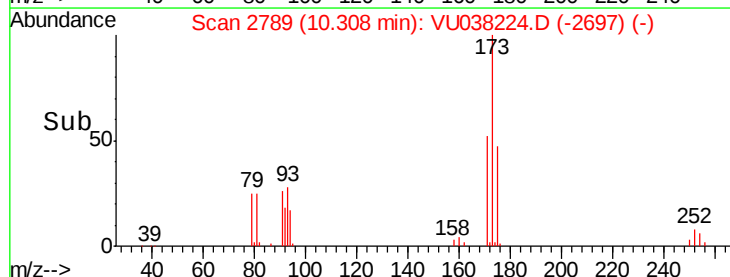
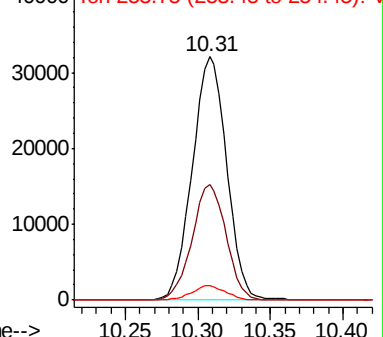
173 100

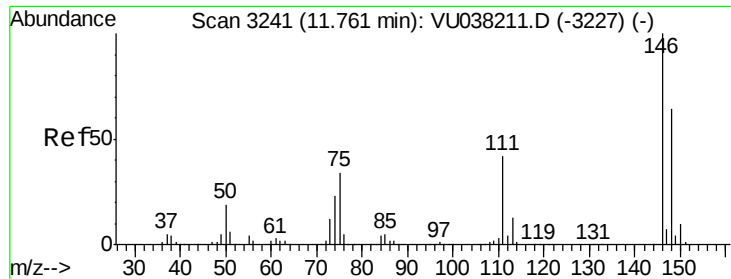
175 46.9 39.5 59.3

254 5.9 5.0 7.4



Abundance Ion 172.90 (172.60 to 173.60): VU038211.D (-2777) (-)

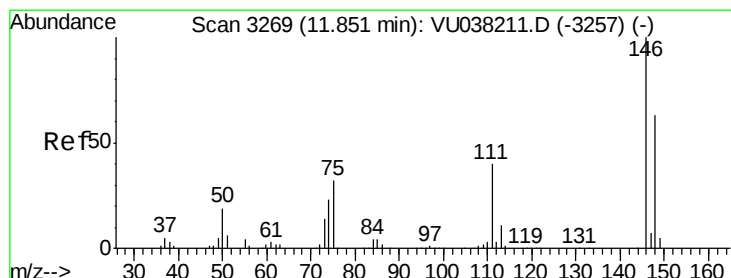
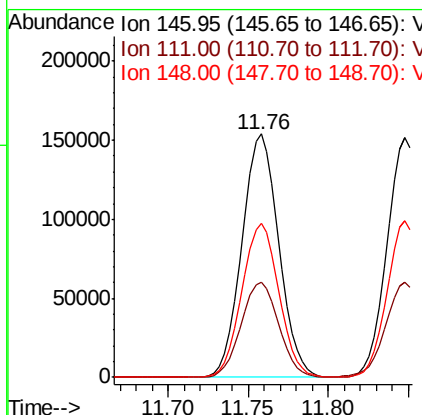
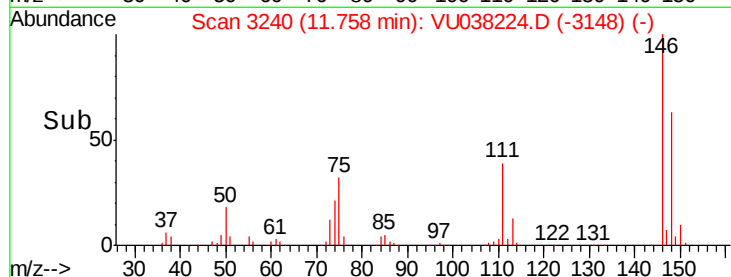
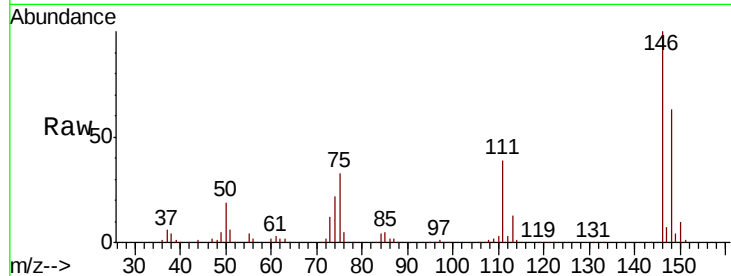




#62
 1,3-Dichlorobenzene
 Concen: 4.635 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

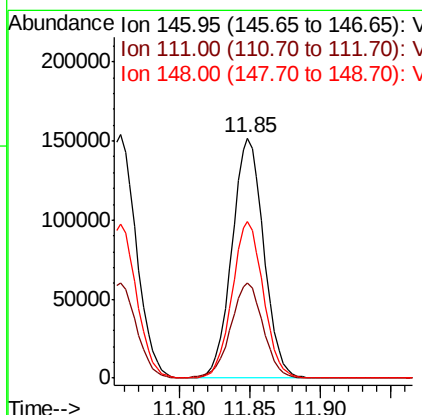
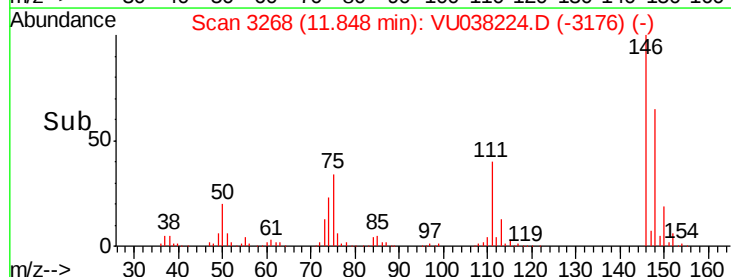
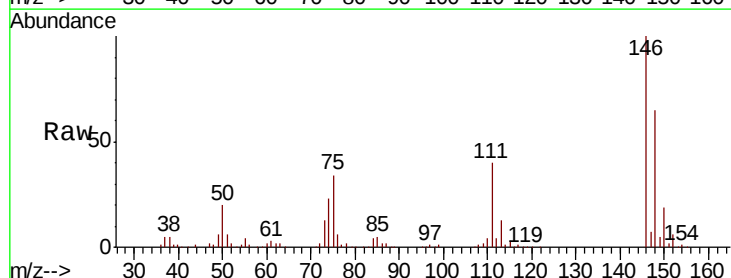
Instrument :
 MSVOA_U
 ClientSampleId :

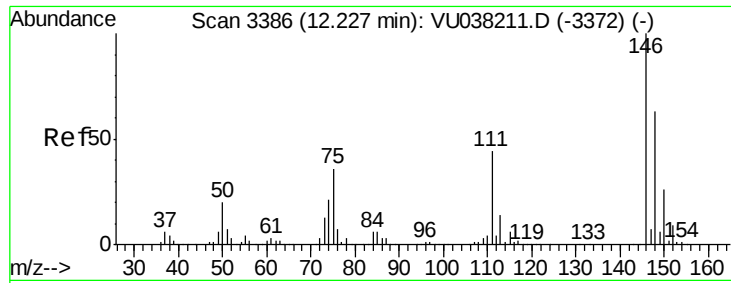
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	28.6	53.2
148	63.3	45.2	84.0



#63
 1,4-Dichlorobenzene
 Concen: 4.543 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	27.2	50.6
148	65.0	43.8	81.3

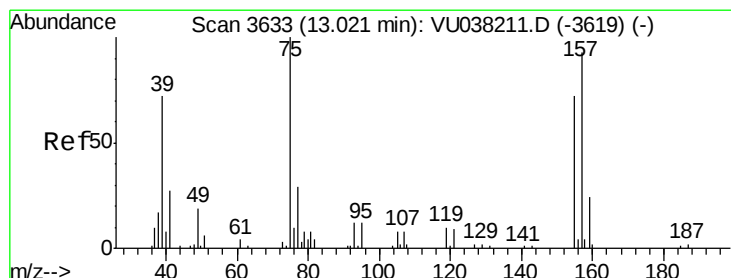
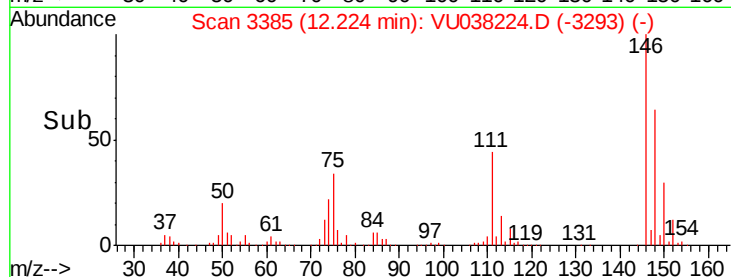
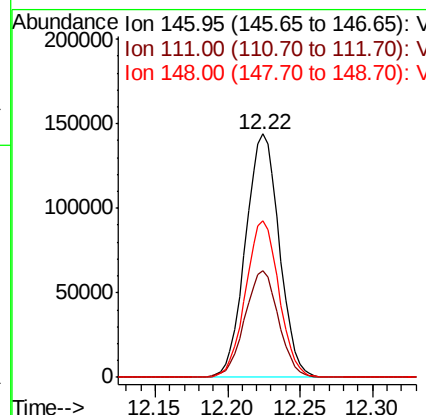
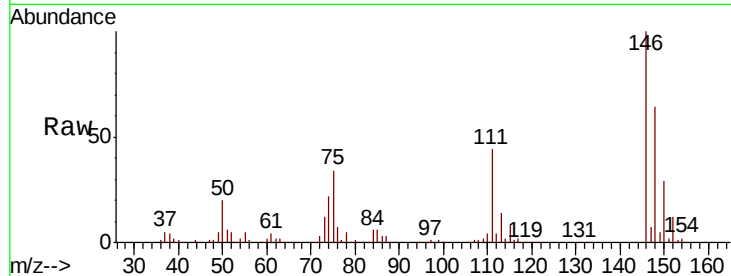




#65
 1,2-Dichlorobenzene
 Concen: 4.661 ug/L
 RT: 12.22 min Scan# 3385
 Delta R.T. -0.00 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

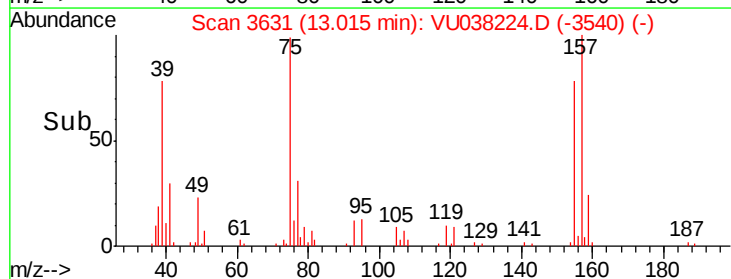
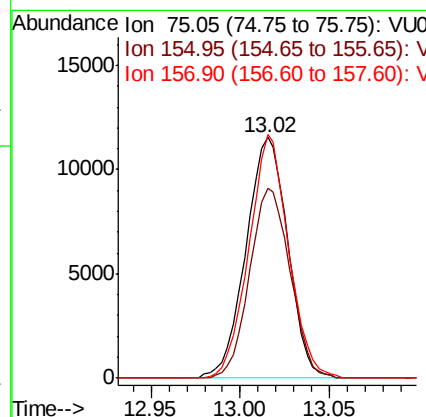
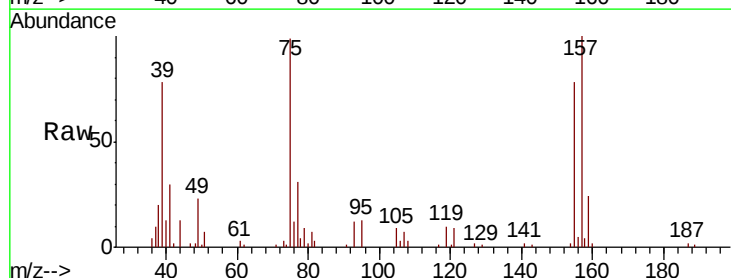
Instrument :
 MSVOA_U
 ClientSampleId :

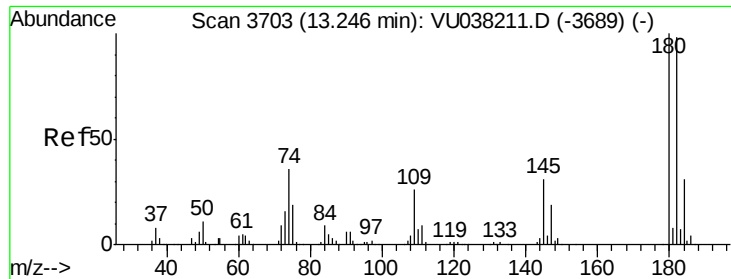
Tot Ion:146 Resp: 232924
 Ion Ratio Lower Upper
 146 100
 111 43.7 35.3 52.9
 148 64.3 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.632 ug/L
 RT: 13.02 min Scan# 3631
 Delta R.T. -0.01 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Tgt Ion: 75 Resp: 18918
 Ion Ratio Lower Upper
 75 100
 155 78.7 58.2 87.2
 157 101.2 72.9 109.3

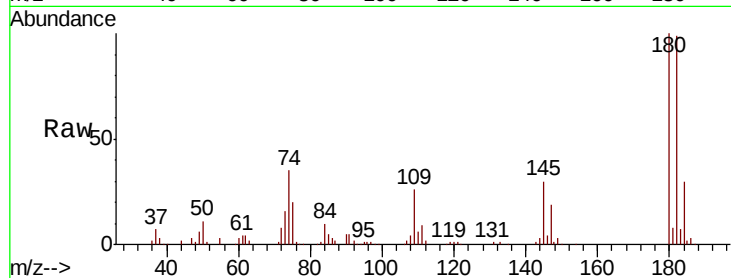




#67
 1,3,5-Trichlorobenzene
 Concen: 4.402 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.01 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	165909
Ion	Ratio	Lower	Upper
180	100		
182	97.3	77.4	116.2
184	30.8	24.2	36.2
145	31.1	24.0	36.0



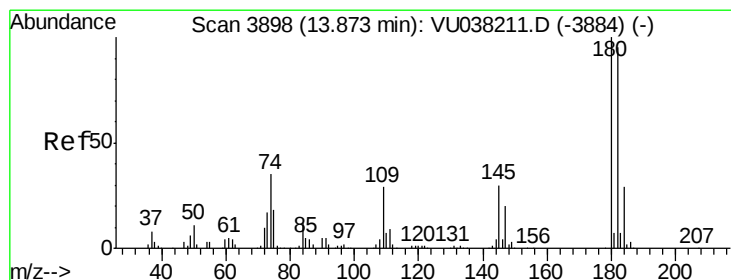
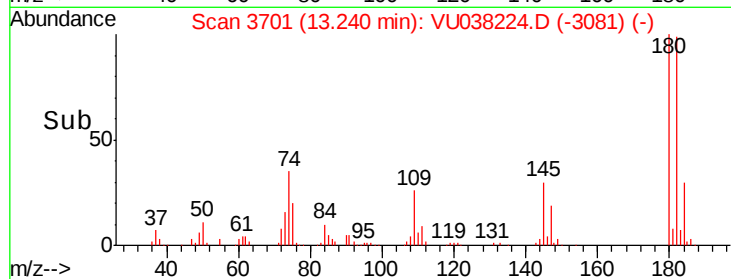
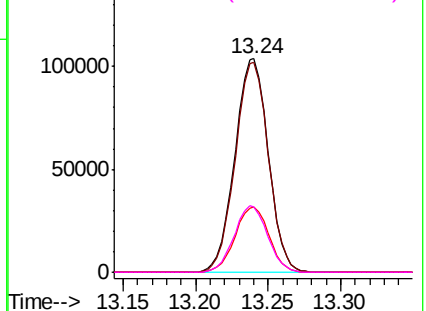
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

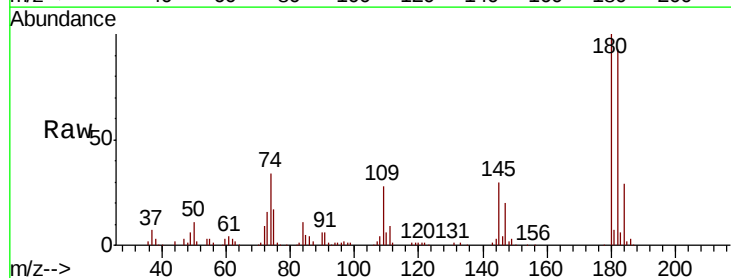
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.613 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU038224.D
 Acq: 18 May 2020 16:56

Tgt Ion:	180	Resp:	157710
Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.0	112.6
145	29.9	24.8	37.2

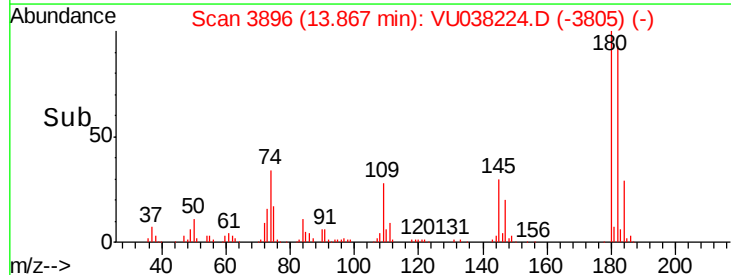
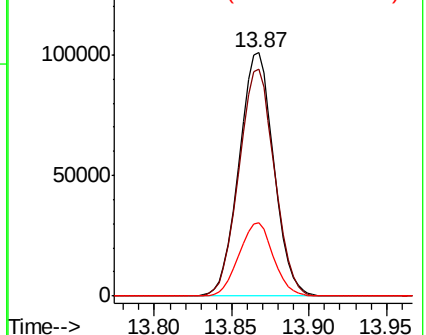


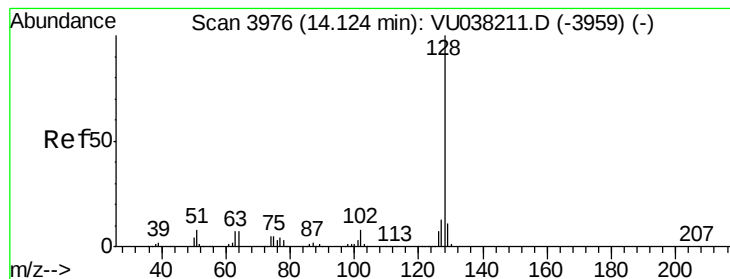
Abundance

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: 4.712 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

Instrument :

MSVOA_U

ClientSampled :

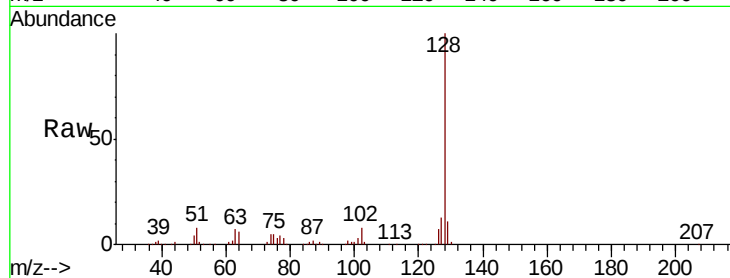
Tot Ion:128 Resp: 339154

Ion Ratio Lower Upper

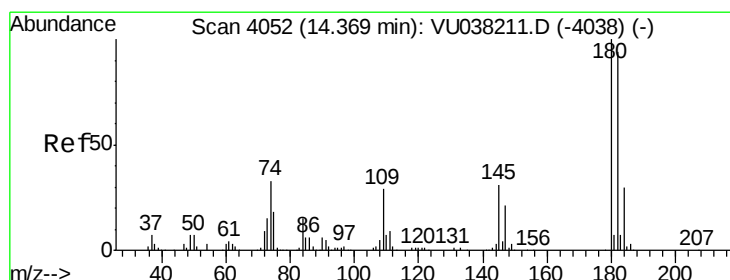
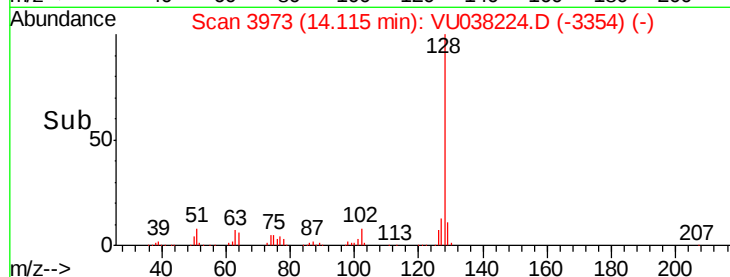
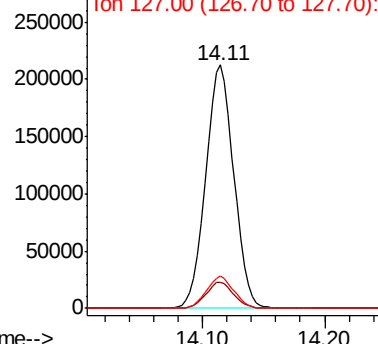
128 100

129 10.6 8.7 13.1

127 12.8 10.2 15.4



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: 4.710 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VU038224.D

Acq: 18 May 2020 16:56

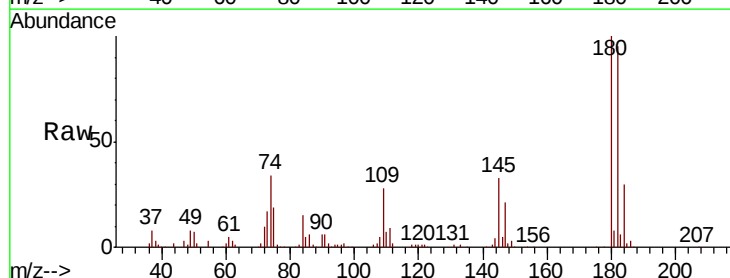
Tgt Ion:180 Resp: 149676

Ion Ratio Lower Upper

180 100

182 94.6 76.3 114.5

145 32.6 26.1 39.1



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

