

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040920\
 Data File : VU037614.D
 Acq On : 09 Apr 2020 13:06
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 10 03:06:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 09 12:32:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	614155	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	587313	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	290640	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	259109	48.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.52%
7) Chloroethane-d5	1.93	69	212267	48.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.84%
11) 1,1-Dichloroethene-d2	2.59	63	435811	49.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.62%
21) 2-Butanone-d5	4.66	46	423813	97.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.43%
24) Chloroform-d	5.10	84	409474	50.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.50%
26) 1,2-Dichloroethane-d4	5.74	65	270767	49.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.80%
32) Benzene-d6	5.76	84	862033	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.78%
36) 1,2-Dichloropropane-d6	6.72	67	285579	49.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.30%
41) Toluene-d8	7.92	98	789751	49.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.60%
43) trans-1,3-Dichloropropene-	8.20	79	149798	48.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.36%
47) 2-Hexanone-d5	8.65	63	312761	94.98	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.98%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	393585	48.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.90%
64) 1,2-Dichlorobenzene-d4	12.20	152	293696	48.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.12%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	247656	51.477	ug/L 99
3) Chloromethane	1.54	50	282910	50.281	ug/L 98
5) Vinyl chloride	1.62	62	300349	51.009	ug/L 99
6) Bromomethane	1.87	94	153910	49.665	ug/L 99
8) Chloroethane	1.95	64	179258	51.282	ug/L 99
9) Trichlorofluoromethane	2.16	101	327886	51.565	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	197329	50.970	ug/L 99
12) 1,1-Dichloroethene	2.60	96	202424	51.559	ug/L 95
13) Acetone	2.66	43	259945	101.182	ug/L 99
14) Carbon disulfide	2.82	76	687940	51.150	ug/L 99
15) Methyl Acetate	2.98	43	305514	50.007	ug/L 99
16) Methylene chloride	3.08	84	227074	50.626	ug/L 97
17) trans-1,2-Dichloroethene	3.39	96	215552	51.177	ug/L 97
18) Methyl tert-butyl Ether	3.40	73	741123	50.973	ug/L 99
19) 1,1-Dichloroethane	3.91	63	424135	51.364	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	234508	50.637	ug/L 100
22) 2-Butanone	4.74	43	454039	100.973	ug/L 100

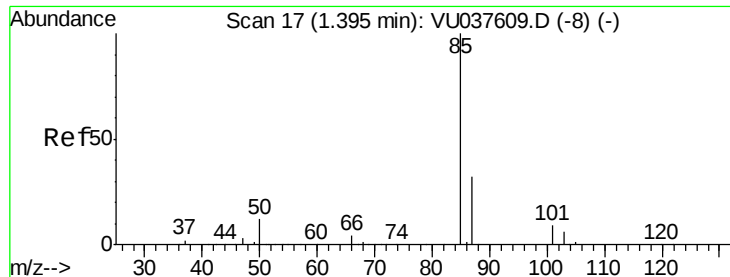
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040920\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	115496	51.172	uq/L	97
25) Chloroform	5.13	83	393293	50.619	uq/L	98
27) 1,2-Dichloroethane	5.83	62	327331	50.936	uq/L	99
29) Cyclohexane	5.42	56	421206	52.152	uq/L	99
30) 1,1,1-Trichloroethane	5.35	97	342673	51.475	uq/L	99
31) Carbon tetrachloride	5.56	117	277508	51.352	uq/L	99
33) Benzene	5.81	78	918834	51.408	uq/L	100
34) Trichloroethene	6.57	95	224141	50.943	uq/L	99
35) Methylcyclohexane	6.79	83	408030	52.266	uq/L	100
37) 1,2-Dichloropropane	6.82	63	254351	51.791	uq/L	100
38) Bromodichloromethane	7.13	83	308327	50.999	uq/L	98
39) cis-1,3-Dichloropropene	7.63	75	412024	51.257	uq/L	99
40) 4-Methyl-2-pentanone	7.82	43	870257	99.775	uq/L	100
42) Toluene	7.99	91	976994	51.458	uq/L	99
44) trans-1,3-Dichloropropene	8.23	75	399386	51.257	uq/L	99
45) 1,1,2-Trichloroethane	8.42	97	223725	51.055	uq/L	99
46) Tetrachloroethene	8.57	164	167330	51.115	uq/L	98
48) 2-Hexanone	8.71	43	682730	99.132	uq/L	99
49) Dibromochloromethane	8.83	129	239500	50.968	uq/L	100
50) 1,2-Dibromoethane	8.94	107	240145	50.651	uq/L	99
51) Chlorobenzene	9.47	112	605977	51.106	uq/L	99
52) Ethylbenzene	9.59	91	1098303	51.595	uq/L	99
53) m,p-Xylene	9.71	106	416858	51.573	uq/L	99
54) o-xylene	10.12	106	406624	50.724	uq/L	97
55) Styrene	10.13	104	712941	51.293	uq/L	99
56) Isopropylbenzene	10.50	105	1073655	51.438	uq/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	396825	50.715	uq/L	100
59) 1,2,3-Trichloropropane	10.84	75	332900	49.897	uq/L	99
61) Bromoform	10.31	173	188200	51.094	uq/L	99
62) 1,3-Dichlorobenzene	11.76	146	470130	50.253	uq/L	99
63) 1,4-Dichlorobenzene	11.85	146	473792	50.477	uq/L	99
65) 1,2-Dichlorobenzene	12.22	146	464608	50.393	uq/L	100
66) 1,2-Dibromo-3-chloropropan	13.01	75	105254	49.282	uq/L	96
67) 1,3,5-Trichlorobenzene	13.24	180	351077	51.325	uq/L	99
68) 1,2,4-trichlorobenzene	13.87	180	337747	51.192	uq/L	100
69) Naphthalene	14.11	128	1202848	49.411	uq/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	333231	50.692	uq/L	98

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



#2

Dichlorodifluoromethane

Concen: 51.477 ug/L

RT: 1.40 min Scan# 18

Delta R.T. 0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

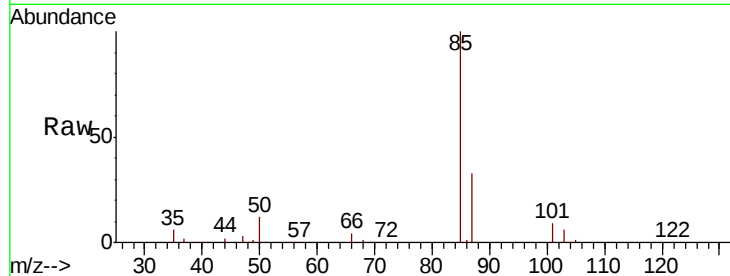
ClientSampled :

Tot Ion: 85 Resp: 247656

Ion Ratio Lower Upper

85 100

87 32.5 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

250000

200000

150000

100000

50000

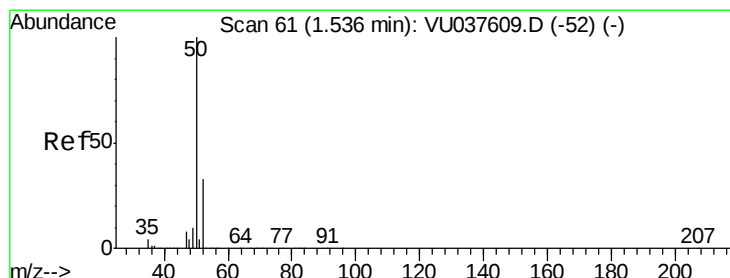
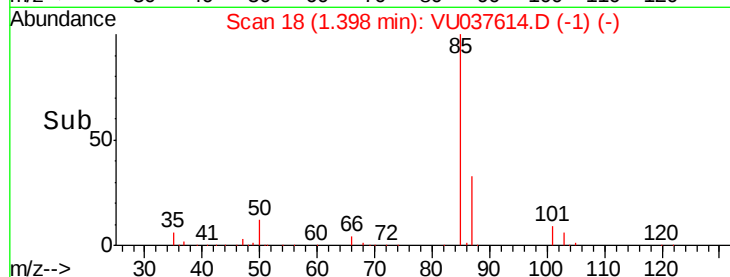
0

1.35

1.40

1.45

Time-->



#3

Chloromethane

Concen: 50.281 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037614.D

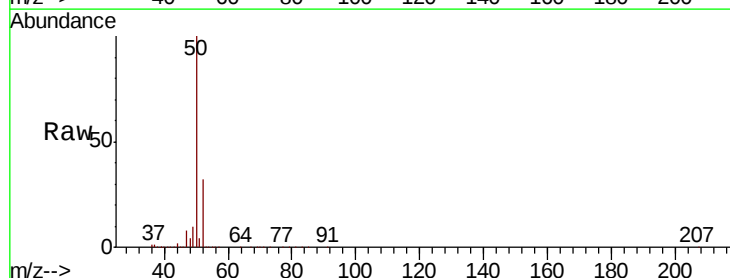
Acq: 09 Apr 2020 13:06

Tgt Ion: 50 Resp: 282910

Ion Ratio Lower Upper

50 100

52 32.3 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

300000

250000

200000

150000

100000

50000

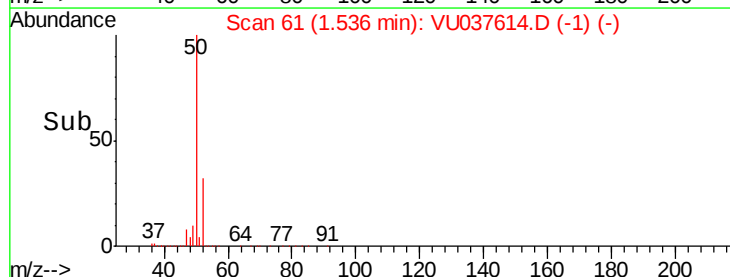
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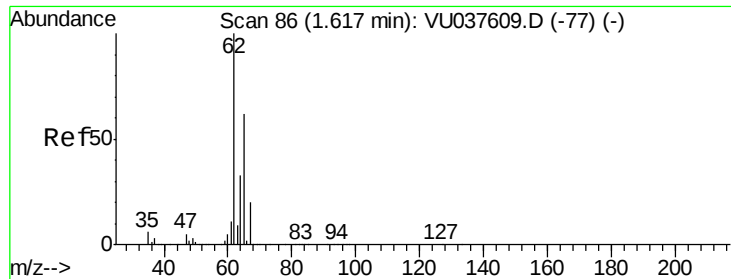
1.50

1.54

1.60

Time-->





#5

Vinyl chloride

Concen: 51.009 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

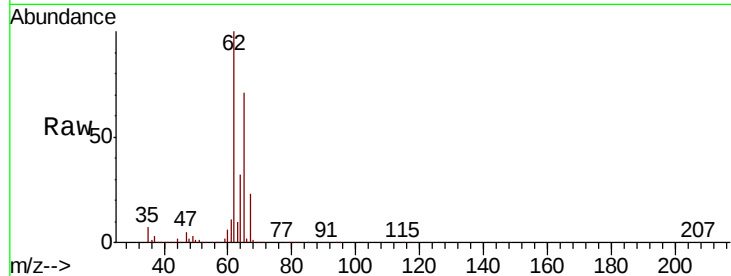
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 300349

Ion Ratio Lower Upper

62 100

64 32.2 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU037609.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU037609.D (-77) (-)

1.62

300000

250000

200000

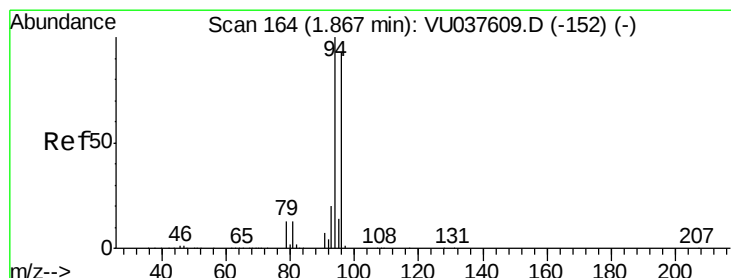
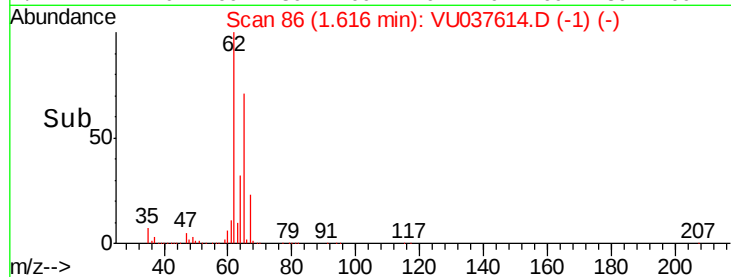
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 49.665 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU037614.D

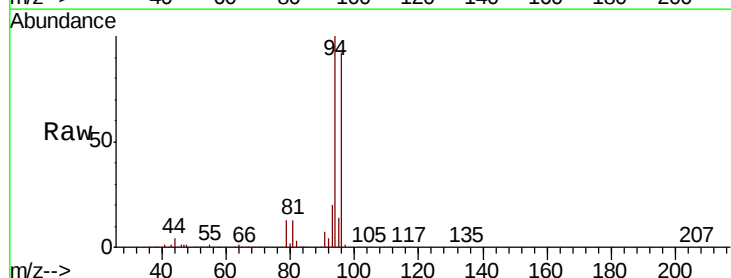
Acq: 09 Apr 2020 13:06

Tgt Ion: 94 Resp: 153910

Ion Ratio Lower Upper

94 100

96 92.2 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VU037609.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU037609.D (-152) (-)

1.87

120000

100000

80000

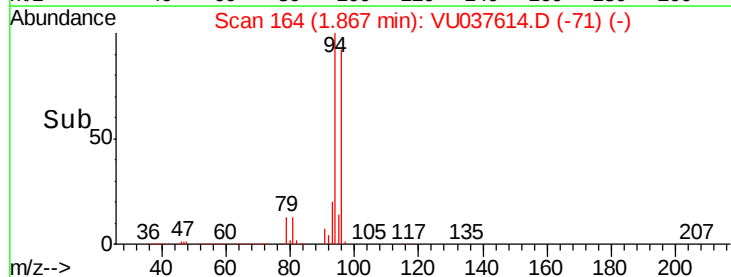
60000

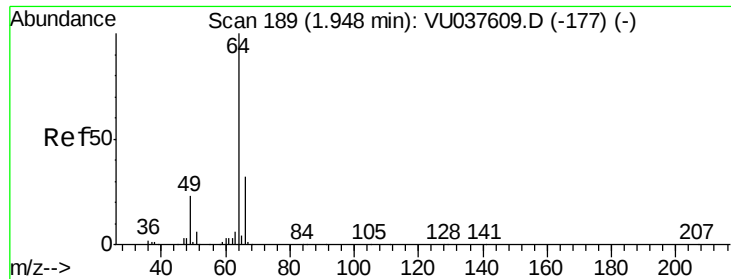
40000

20000

0

Time-->

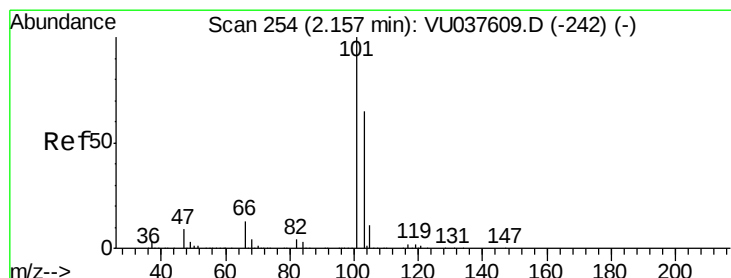
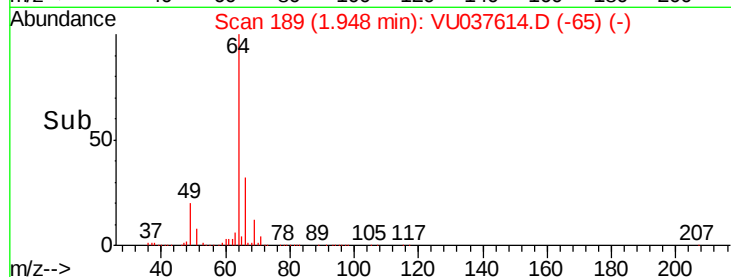
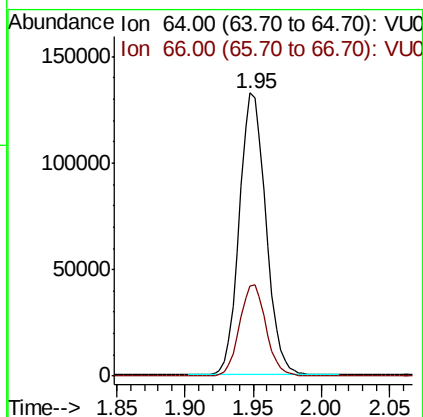
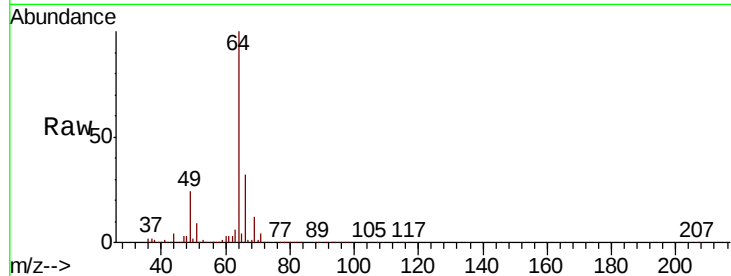




#8
Chloroethane
Concen: 51.282 ug/L
RT: 1.95 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

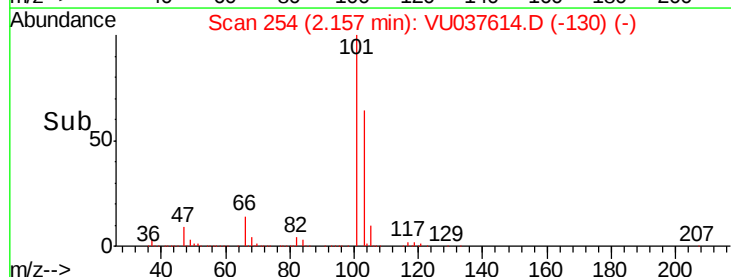
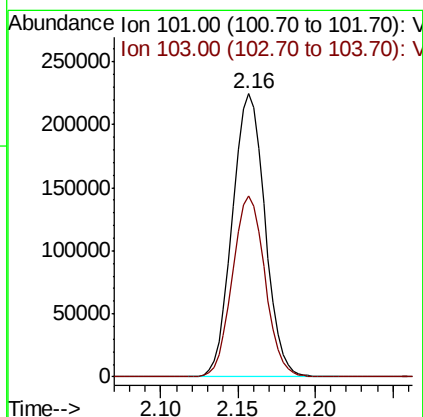
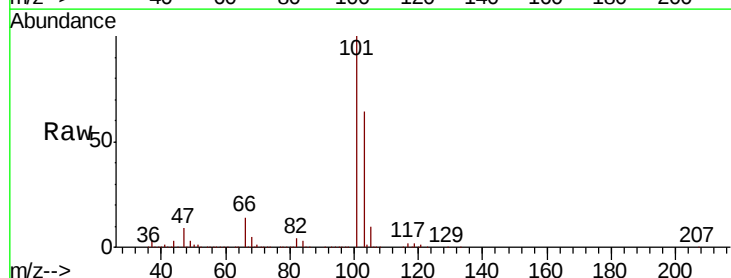
Instrument :
MSVOA_U
ClientSampleId :

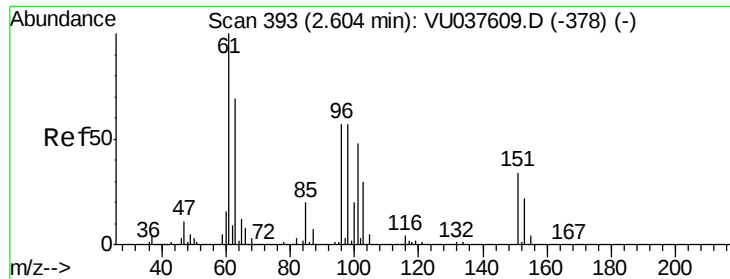
Tot Ion: 64 Resp: 179258
Ion Ratio Lower Upper
64 100
66 31.8 22.6 42.0



#9
Trichlorofluoromethane
Concen: 51.565 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

Tgt Ion:101 Resp: 327886
Ion Ratio Lower Upper
101 100
103 63.9 52.2 78.2





#10

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

Concen: 50.970 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

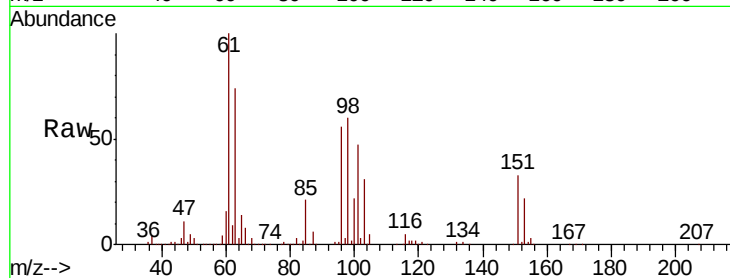
Tot Ion:101 Resp: 197329

Ion Ratio Lower Upper

101 100

85 43.9 34.5 51.7

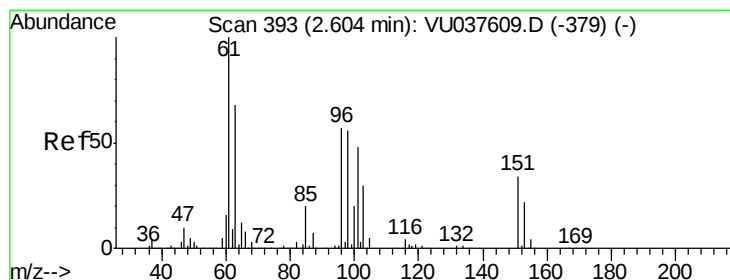
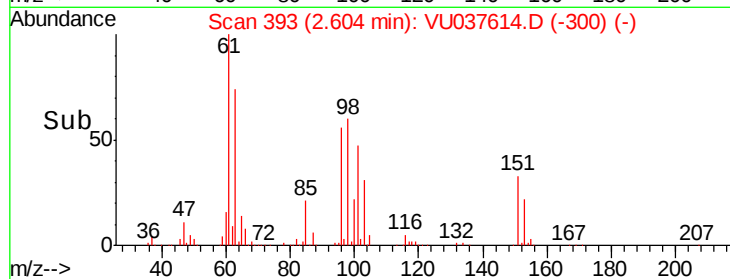
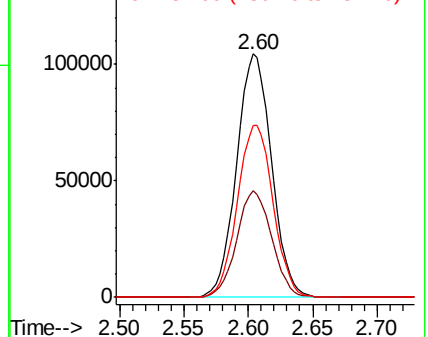
151 72.1 56.8 85.2



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: 51.559 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

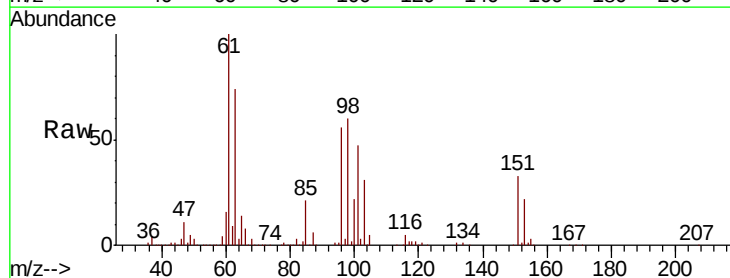
Tgt Ion: 96 Resp: 202424

Ion Ratio Lower Upper

96 100

61 179.3 123.6 229.6

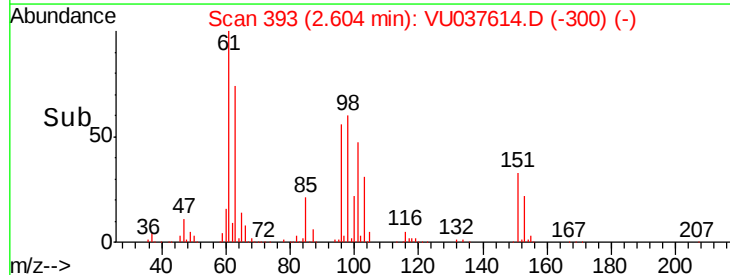
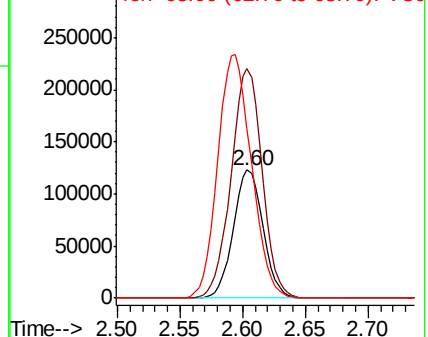
63 132.2 85.7 159.1

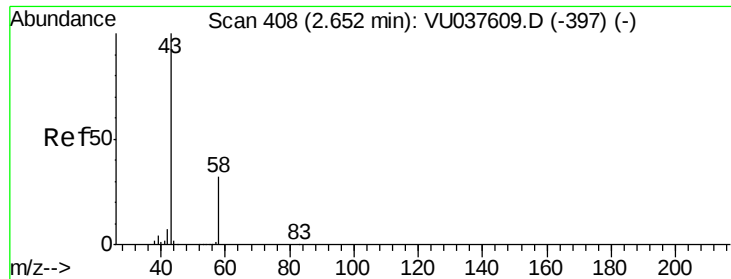


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

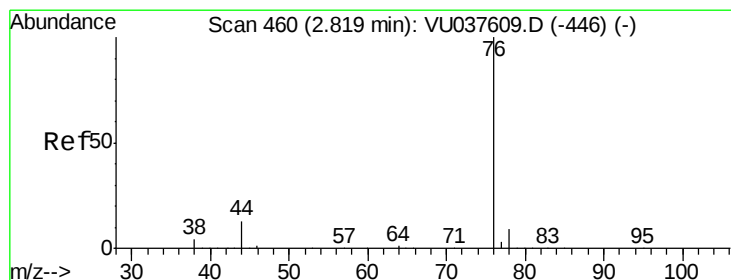
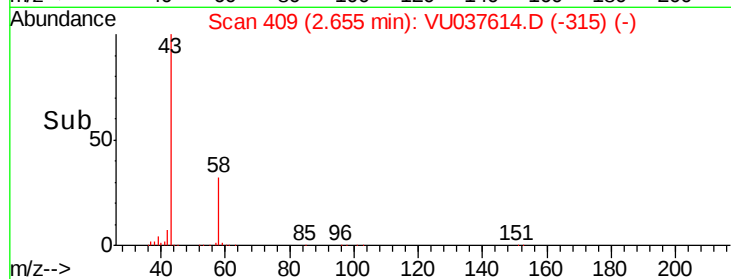
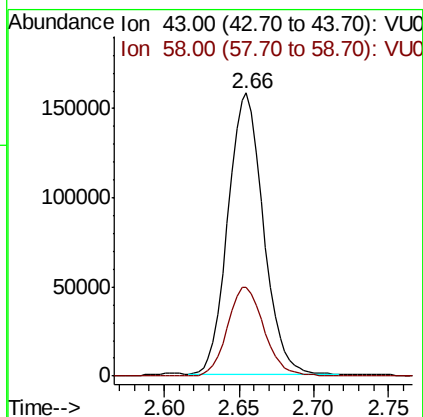
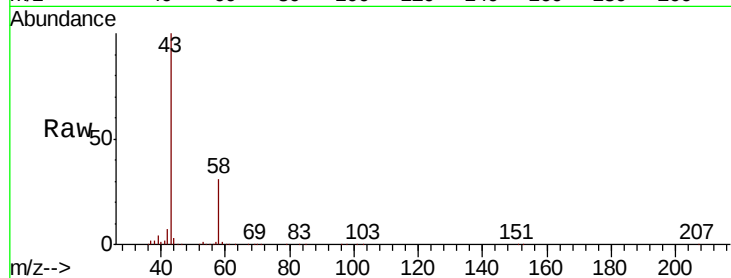




#13
Acetone
Concen: 101.182 ug/L
RT: 2.66 min Scan# 409
Delta R.T. 0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

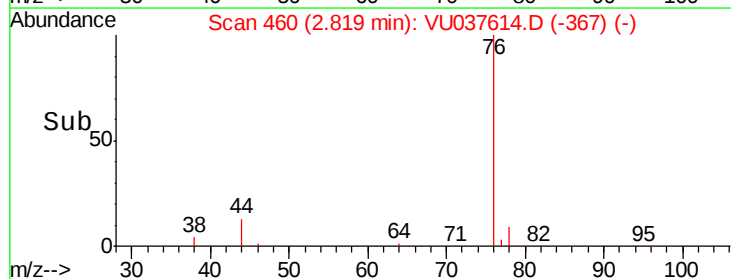
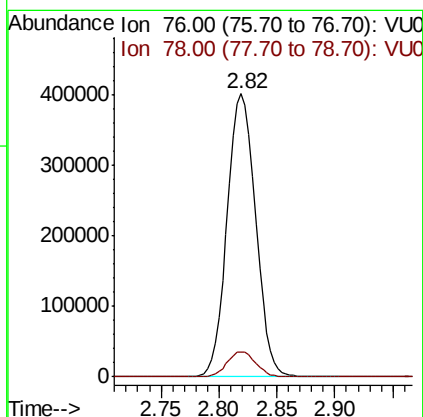
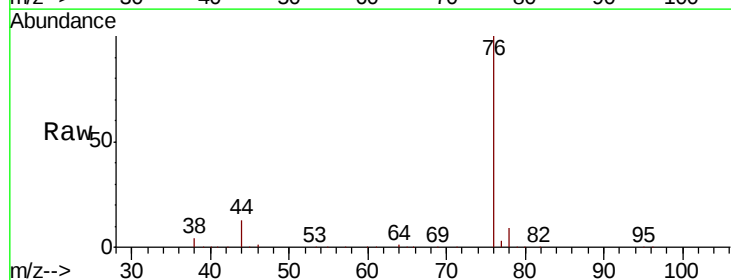
Instrument :
MSVOA_U
ClientSampleId :

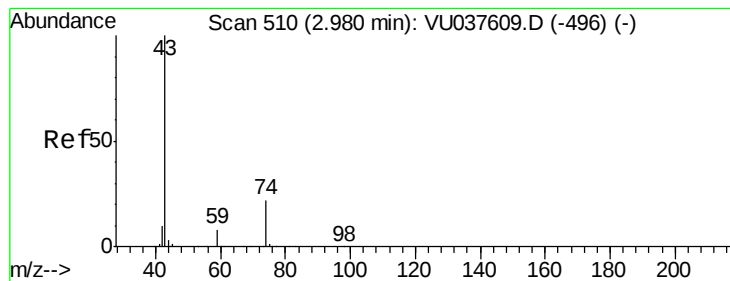
Tot Ion: 43 Resp: 259945
Ion Ratio Lower Upper
43 100
58 32.2 0.0 63.2



#14
Carbon disulfide
Concen: 51.150 ug/L
RT: 2.82 min Scan# 460
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

Tgt Ion: 76 Resp: 687940
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.6





#15

Methvl Acetate

Concen: 50.007 ug/L

RT: 2.98 min Scan# 510

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

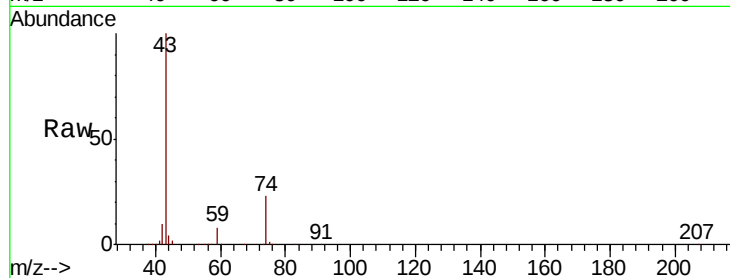
ClientSampleId :

Tot Ion: 43 Resp: 305514

Ion Ratio Lower Upper

43 100

74 22.8 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VU037614.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU037614.D (-417) (-)

200000

150000

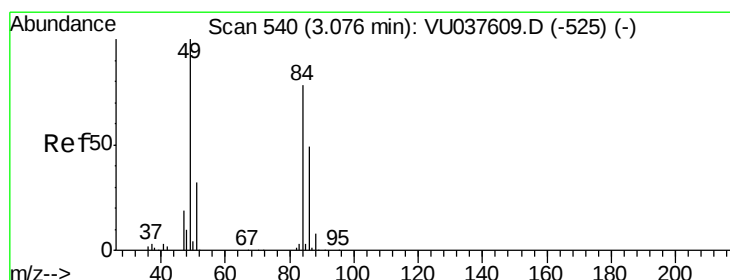
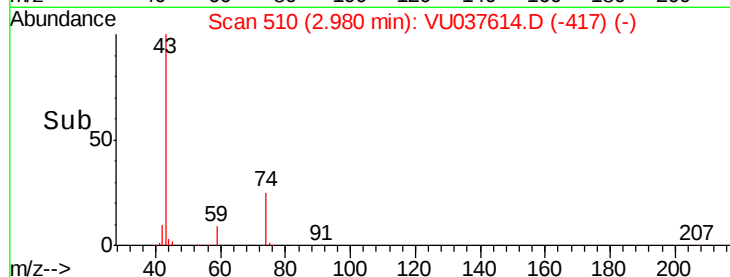
100000

50000

0

2.90 2.95 3.00 3.05

Time-->



#16

Methylene chloride

Concen: 50.626 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

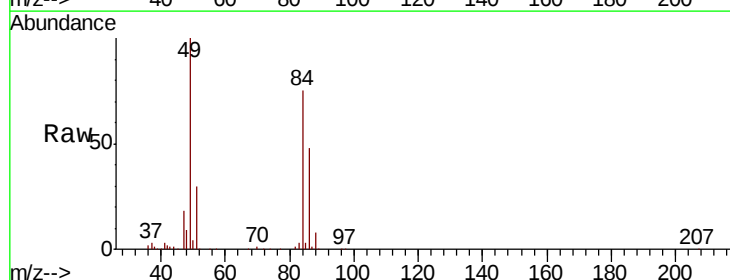
Tgt Ion: 84 Resp: 227074

Ion Ratio Lower Upper

84 100

86 64.1 44.1 81.9

49 133.1 90.3 167.7



Abundance Ion 84.00 (83.70 to 84.70): VU037614.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU037614.D (-447) (-)

Ion 49.00 (48.70 to 49.70): VU037614.D (-447) (-)

200000

150000

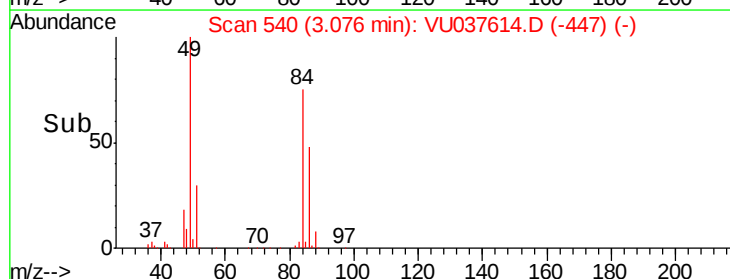
100000

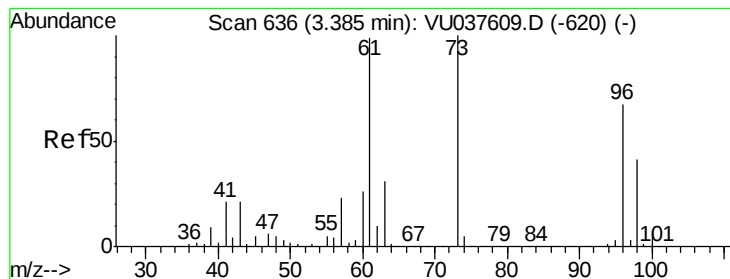
50000

0

3.00 3.05 3.10 3.15

Time-->





#17

trans-1,2-Dichloroethene

Concen: 51.177 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

ClientSampled :

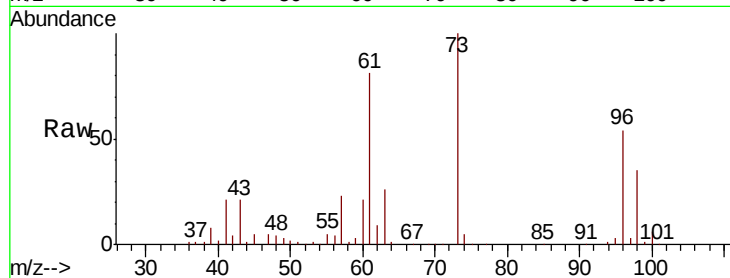
Tot Ion: 96 Resp: 215552

Ion Ratio Lower Upper

96 100

61 149.5 103.2 191.6

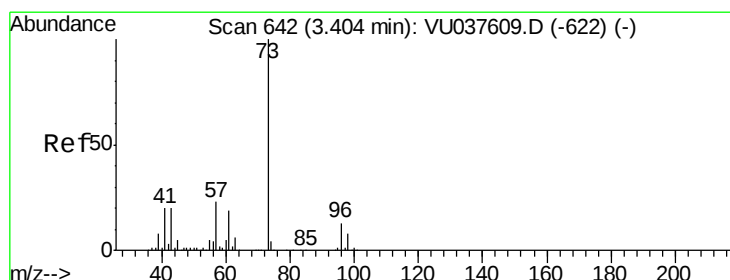
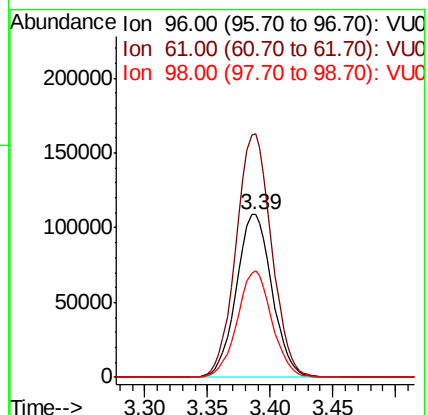
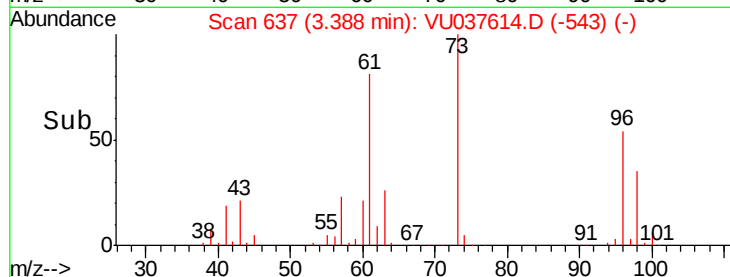
98 65.2 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU037609.D (-620) (-)

Ion 61.00 (60.70 to 61.70): VU037609.D (-620) (-)

Ion 98.00 (97.70 to 98.70): VU037609.D (-620) (-)



#18

Methyl tert-butyl Ether

Concen: 50.973 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

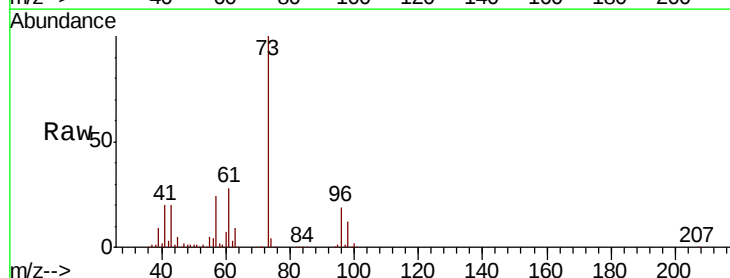
Tgt Ion: 73 Resp: 741123

Ion Ratio Lower Upper

73 100

43 20.5 16.3 24.5

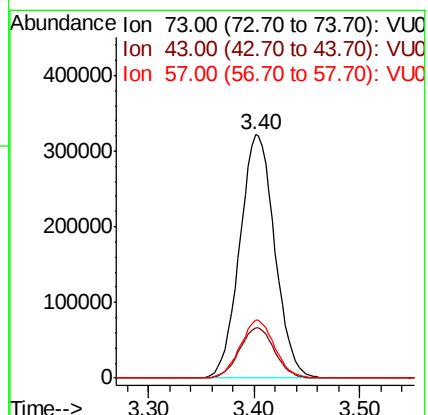
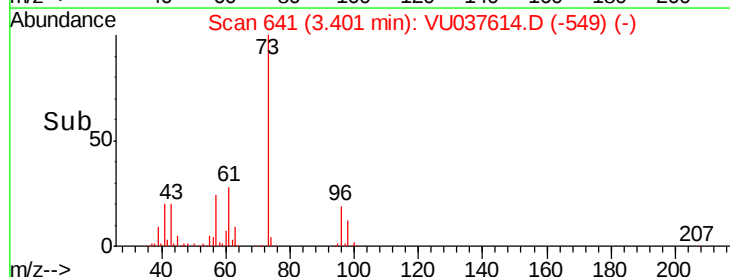
57 23.4 18.3 27.5

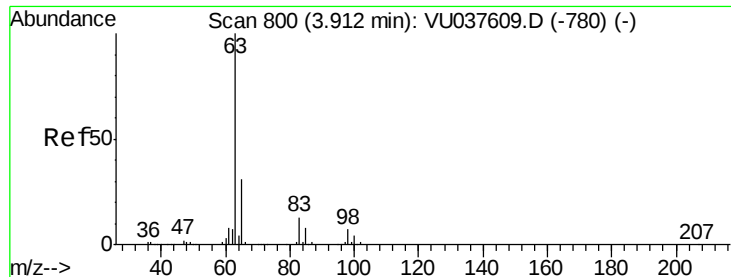


Abundance Ion 73.00 (72.70 to 73.70): VU037609.D (-622) (-)

Ion 43.00 (42.70 to 43.70): VU037609.D (-622) (-)

Ion 57.00 (56.70 to 57.70): VU037609.D (-622) (-)

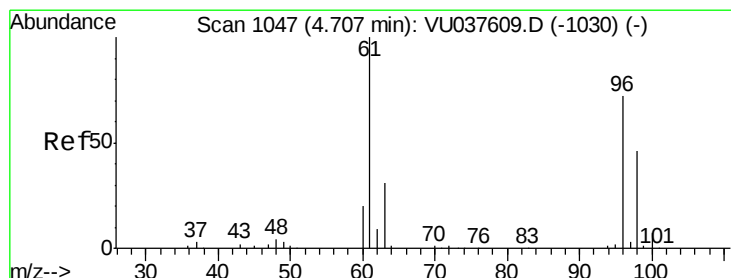
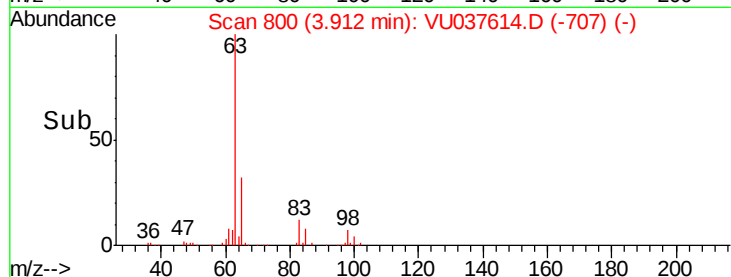
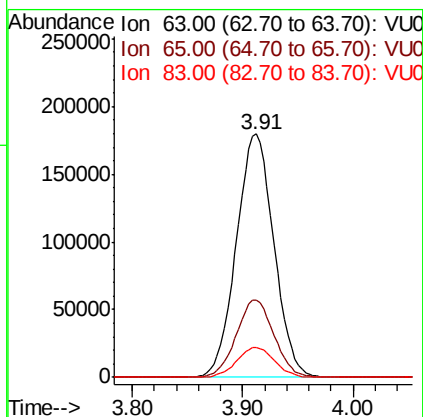
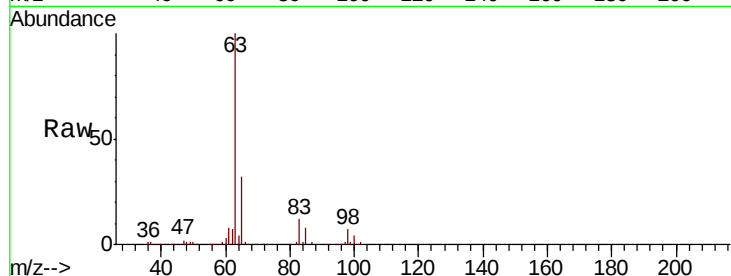




#19
 1,1-Dichloroethane
 Concen: 51.364 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

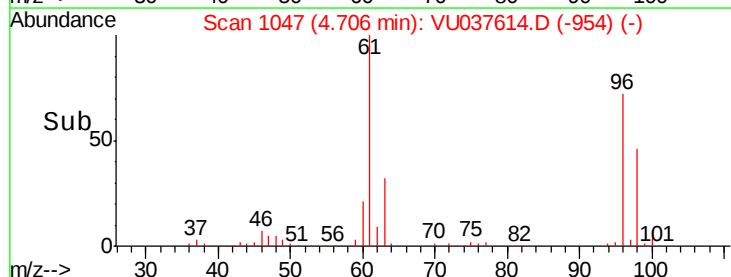
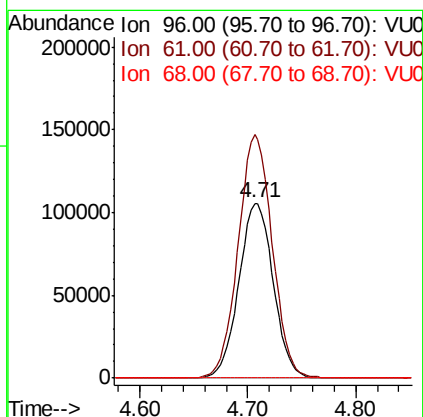
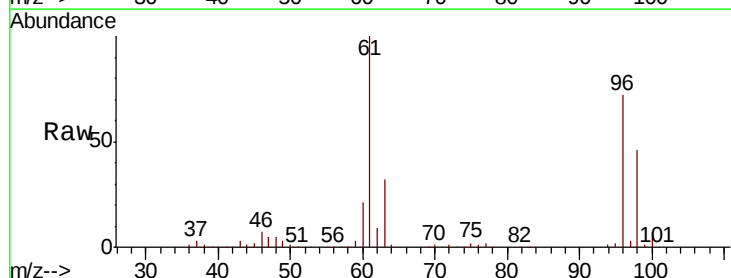
Instrument :
 MSVOA_U
 ClientSampleId :

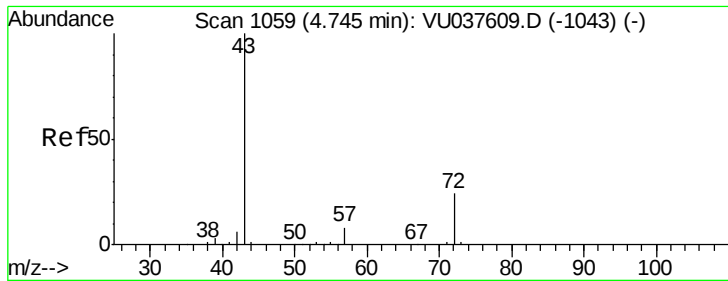
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.9	40.7
83	12.2	9.0	16.6



#20
 cis-1,2-Dichloroethene
 Concen: 50.637 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.0	97.5	181.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 100.973 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

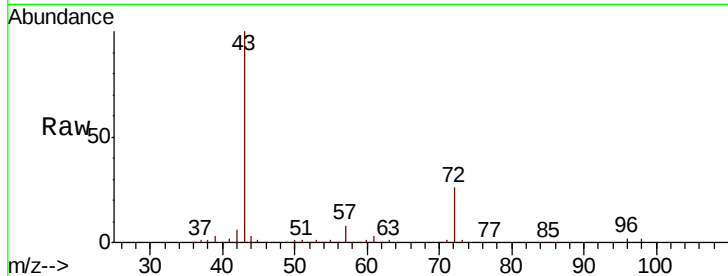
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 454039

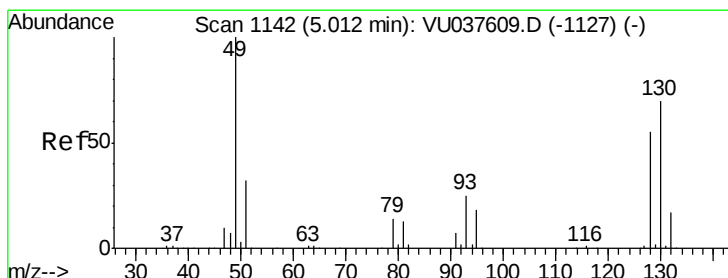
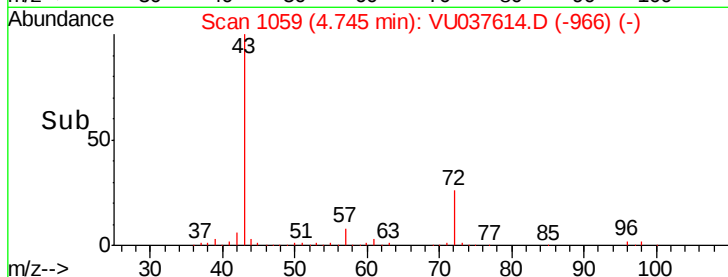
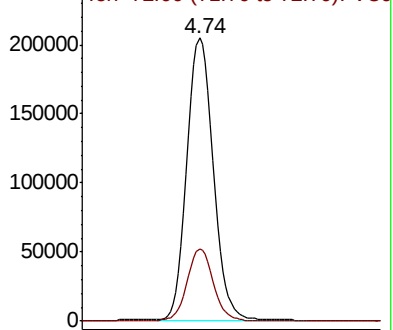
Ion Ratio Lower Upper

43 100

72 25.5 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VU037614.D (-966) (-)



#23

Bromochloromethane

Concen: 51.172 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Tgt Ion:128 Resp: 115496

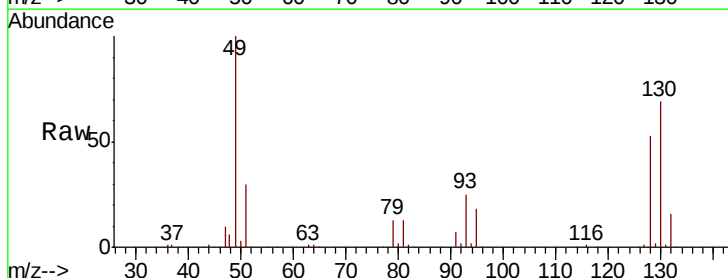
Ion Ratio Lower Upper

128 100

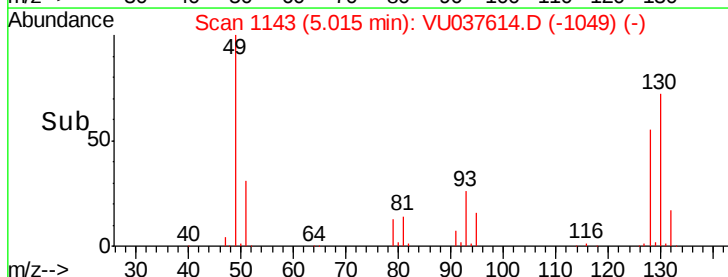
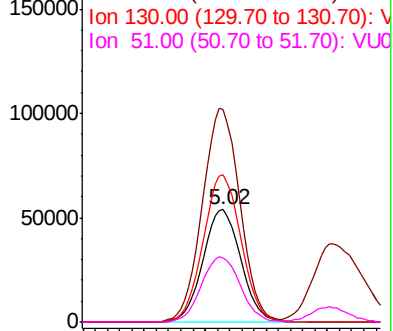
49 189.6 128.7 238.9

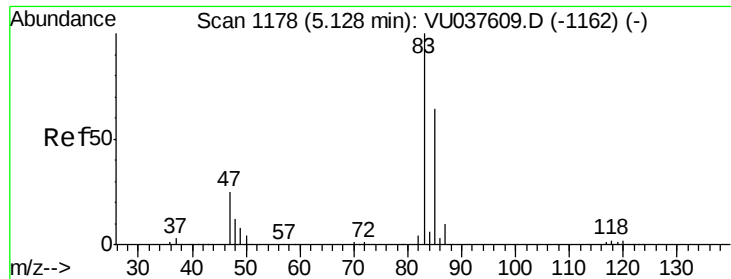
130 131.2 89.9 167.0

51 57.6 46.4 69.6



Abundance Ion 128.00 (127.70 to 128.70): VU037614.D (-1049) (-)

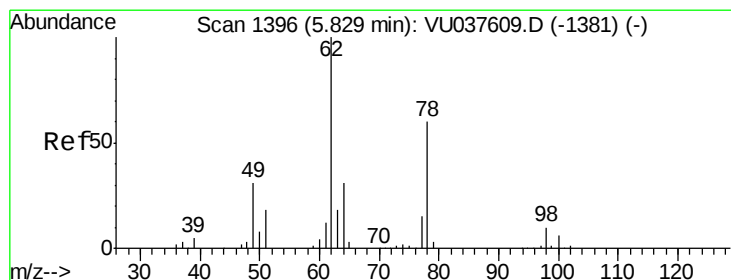
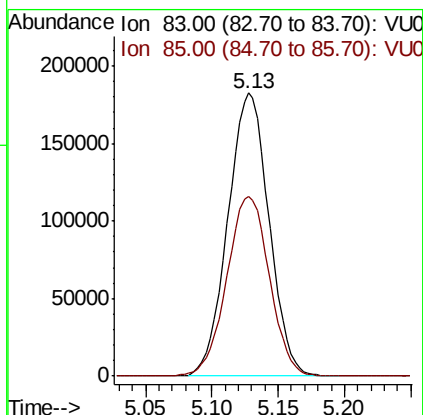
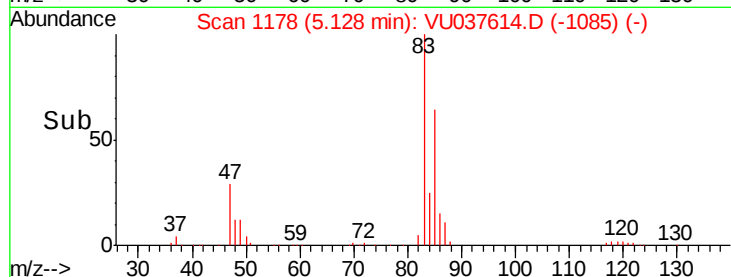
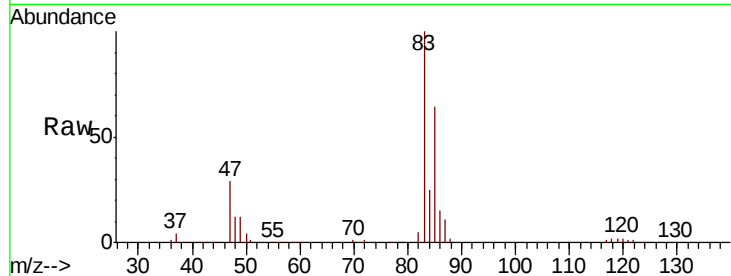




#25
Chloroform
Concen: 50.619 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

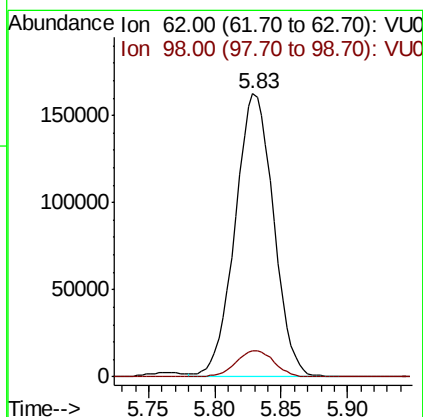
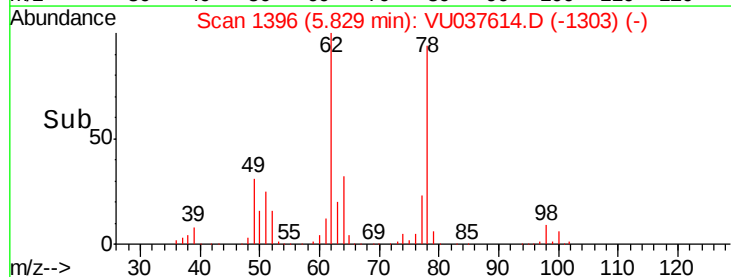
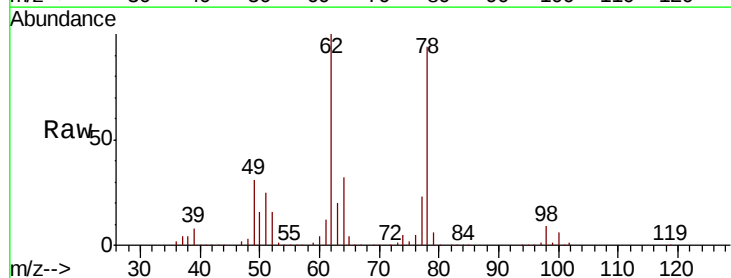
Instrument :
MSVOA_U
ClientSampleId :

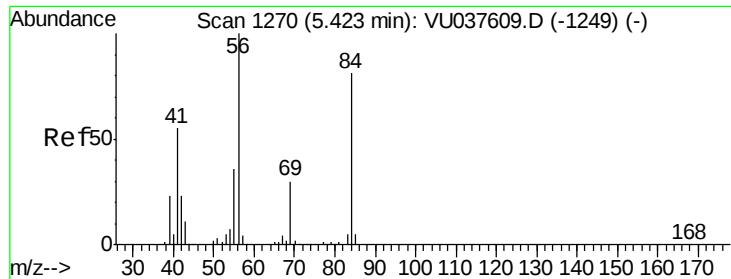
Tot Ion: 83 Resp: 393293
Ion Ratio Lower Upper
83 100
85 63.6 45.5 84.5



#27
1,2-Dichloroethane
Concen: 50.936 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

Tgt Ion: 62 Resp: 327331
Ion Ratio Lower Upper
62 100
98 9.3 7.8 11.6

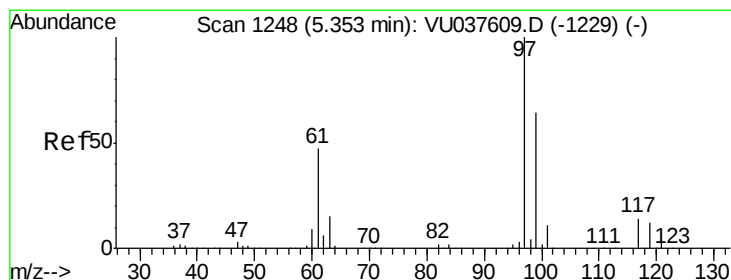
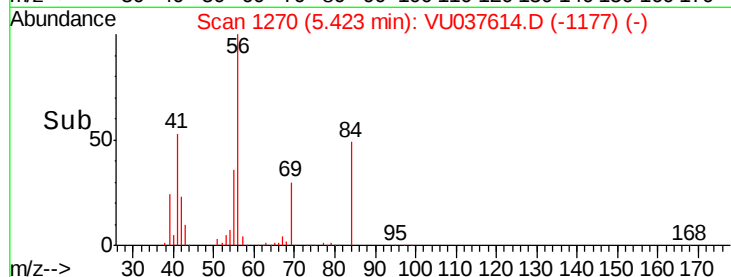
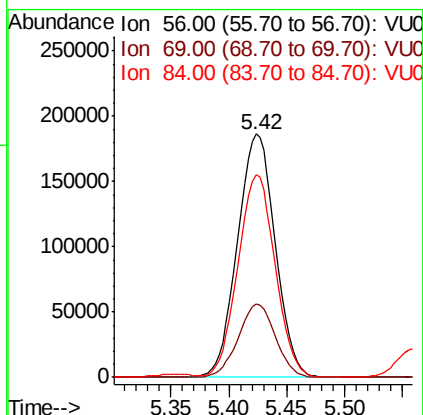
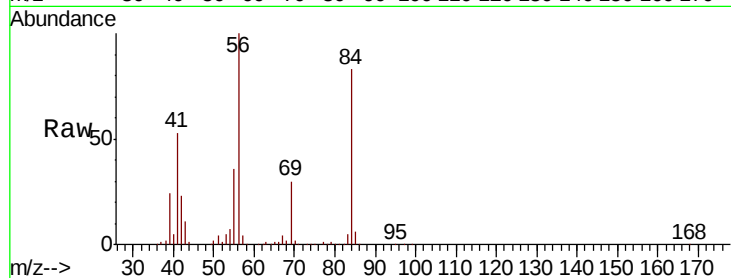




#29
Cyclohexane
Concen: 52.152 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

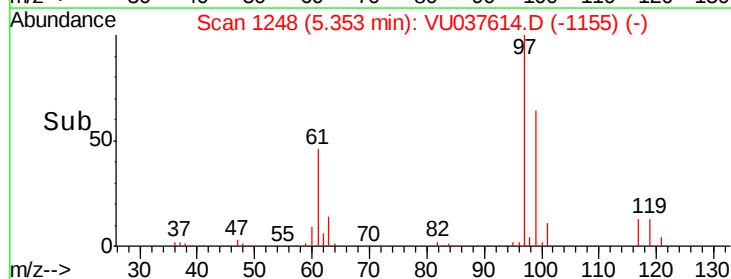
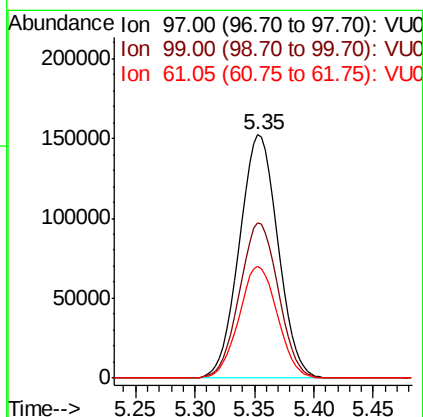
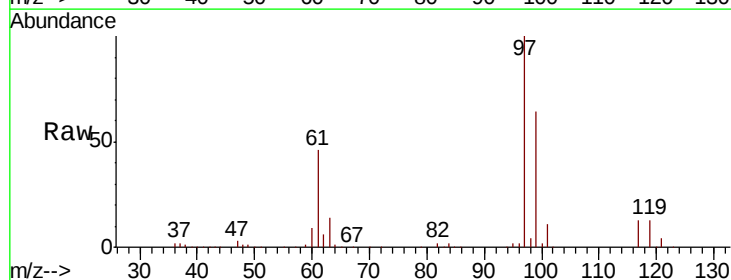
Instrument :
MSVOA_U
ClientSampleId :

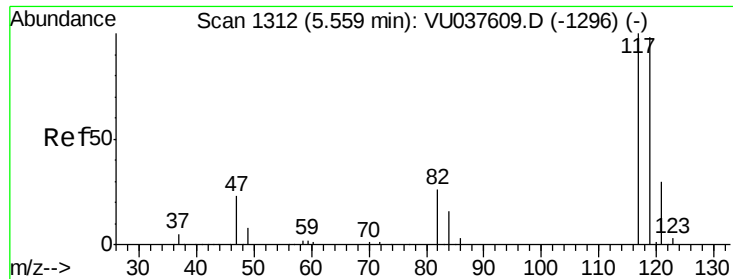
Tot Ion	Ratio	Lower	Upper
56	100		
69	29.9	24.0	36.0
84	82.3	66.3	99.5



#30
1,1,1-Trichloroethane
Concen: 51.475 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.9	77.9
61	46.0	37.1	55.7

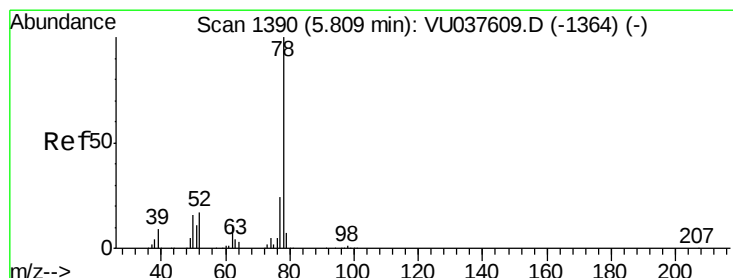
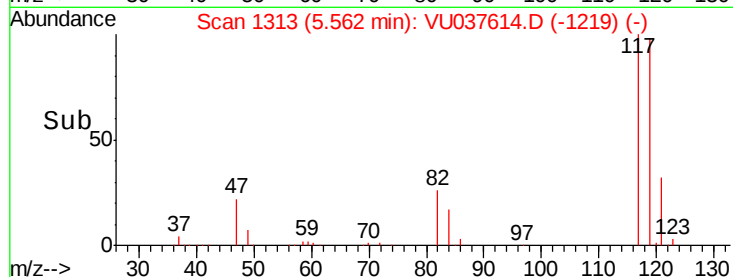
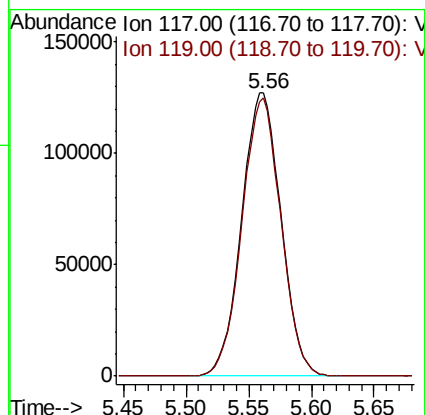
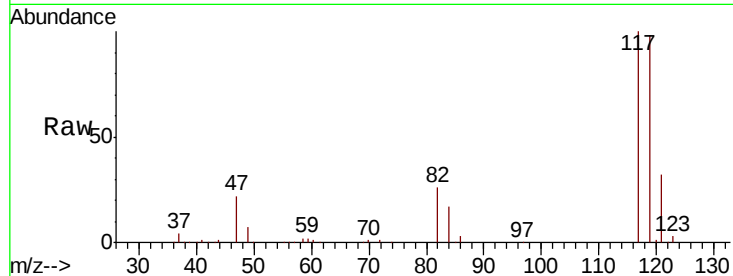




#31
Carbon tetrachloride
Concen: 51.352 ug/L
RT: 5.56 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

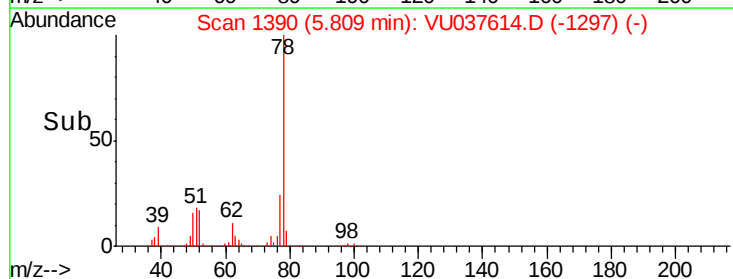
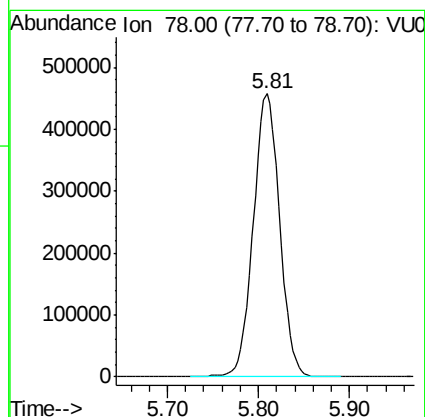
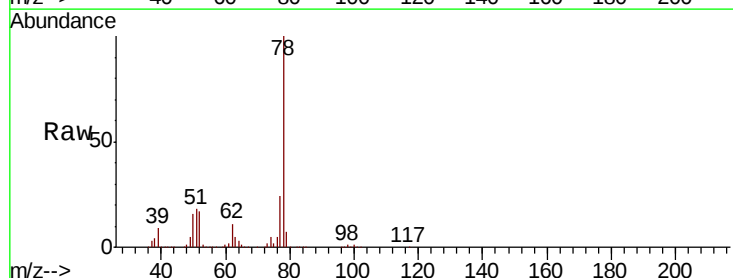
Instrument :
MSVOA_U
ClientSampled :

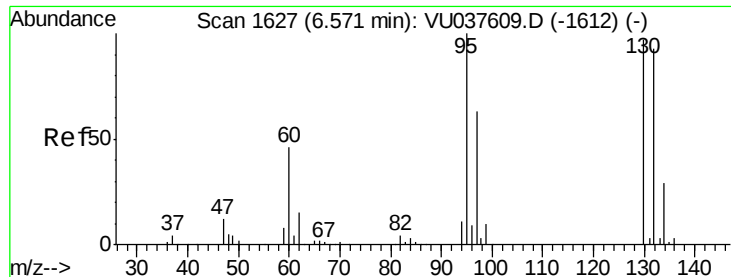
Tot Ion:117 Resp: 277508
Ion Ratio Lower Upper
117 100
119 97.0 77.0 115.4



#33
Benzene
Concen: 51.408 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

Tgt Ion: 78 Resp: 918834

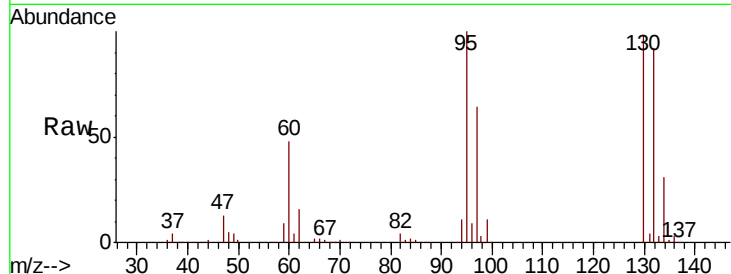




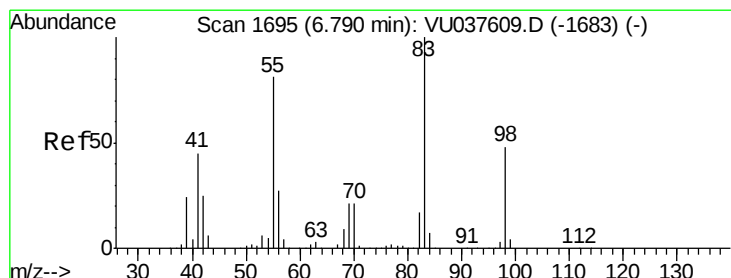
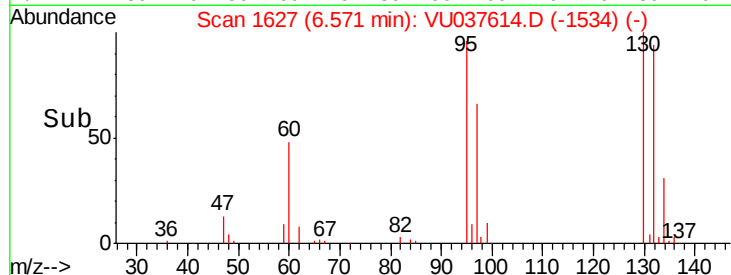
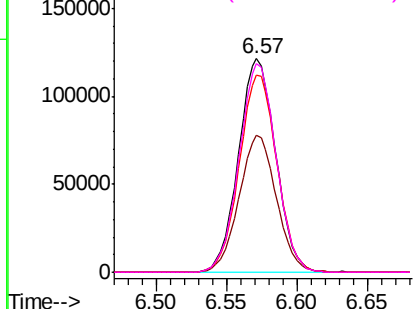
#34
 Trichloroethene
 Concen: 50.943 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	95	Resp:	224141
Ion	Ratio	Lower	Upper
95	100		
97	64.2	43.8	81.4
132	92.3	64.8	120.4
130	97.8	68.2	126.6

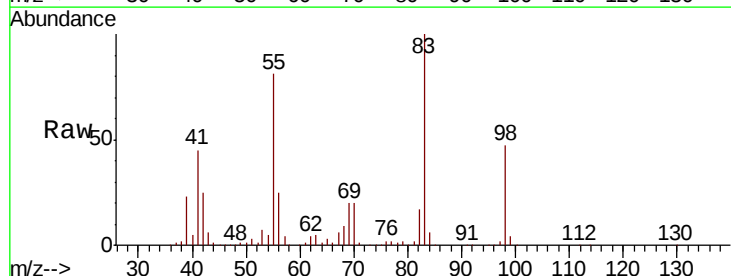


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

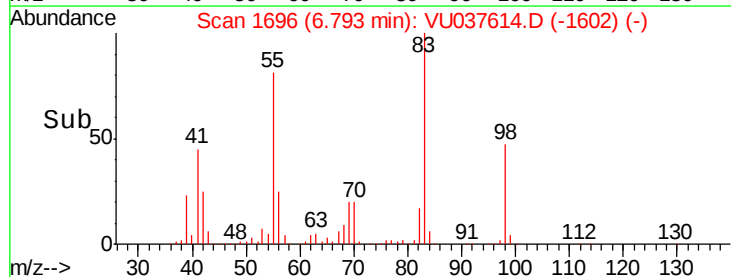
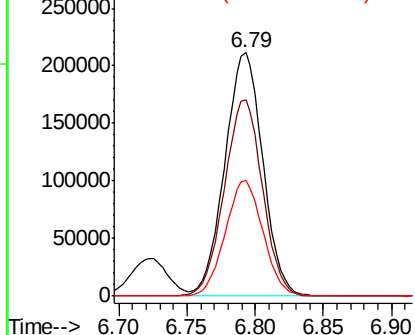


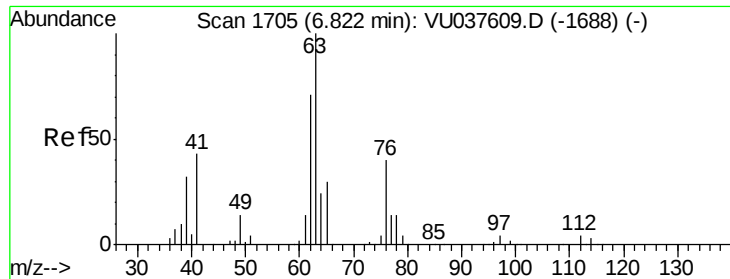
#35
 Methylcyclohexane
 Concen: 52.266 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion:	83	Resp:	408030
Ion	Ratio	Lower	Upper
83	100		
55	81.0	64.6	96.8
98	47.2	38.0	57.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

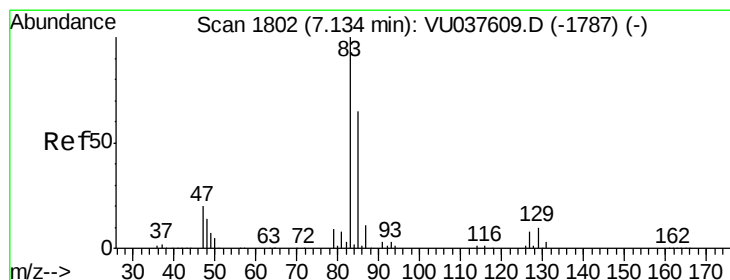
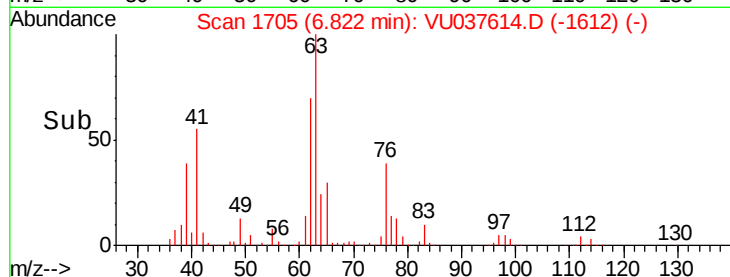
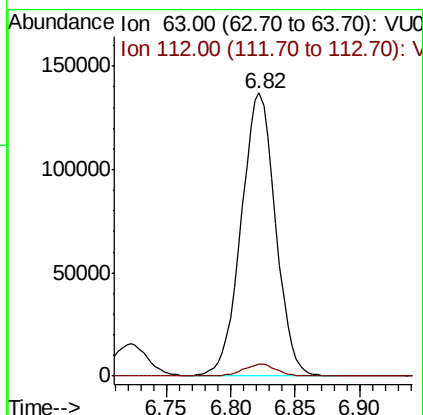
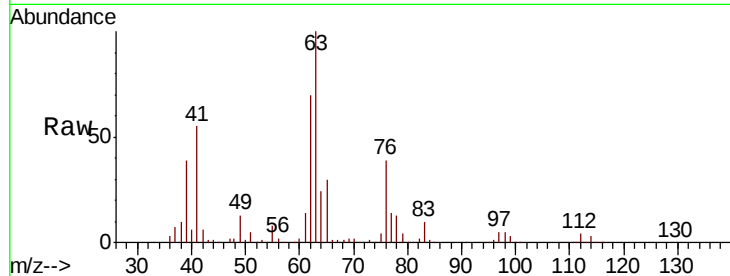




#37
 1,2-Dichloropropane
 Concen: 51.791 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

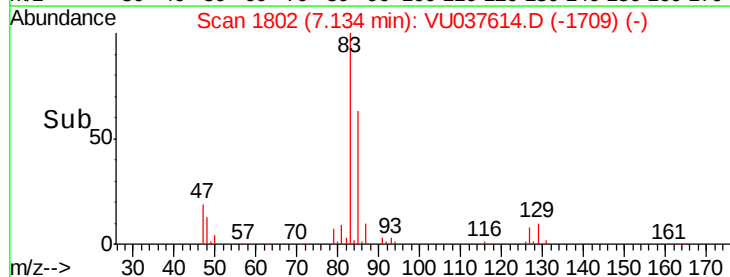
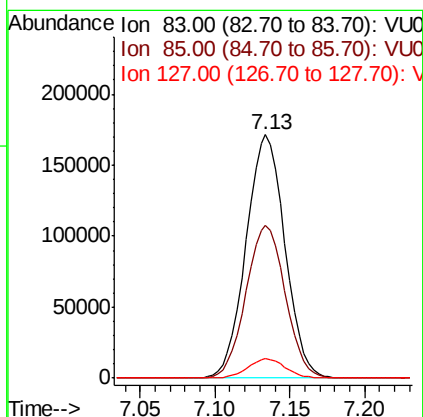
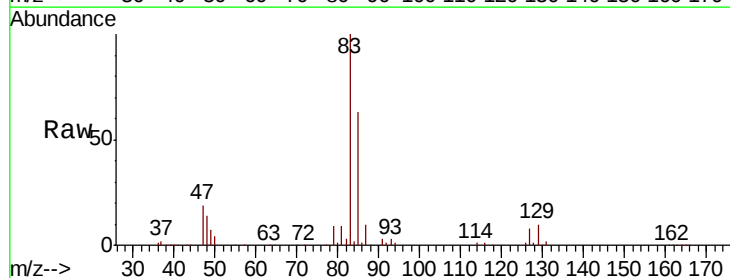
Instrument :
 MSVOA_U
 ClientSampleId :

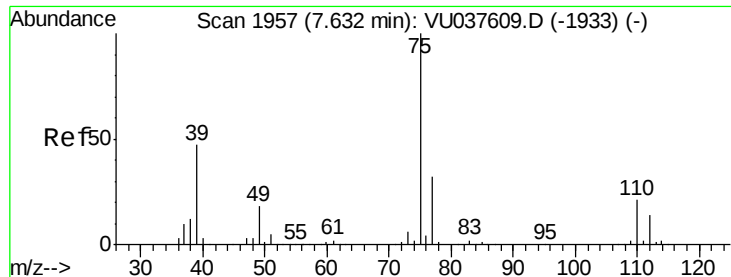
Tot Ion: 63 Resp: 254351
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.4 5.0



#38
 Bromodichloromethane
 Concen: 50.999 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion: 83 Resp: 308327
 Ion Ratio Lower Upper
 83 100
 85 62.6 45.1 83.7
 127 7.9 6.6 9.8

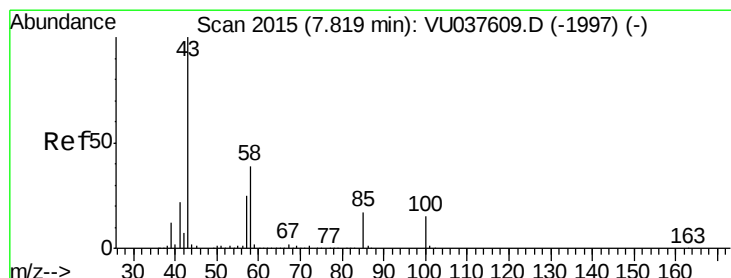
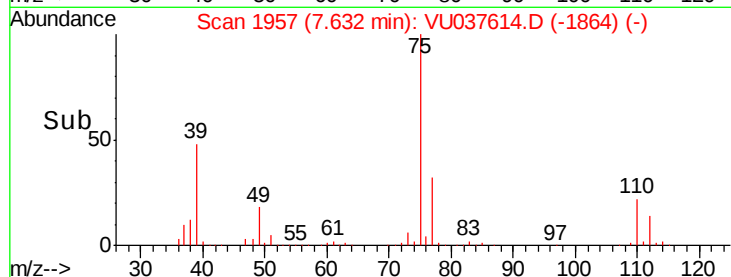
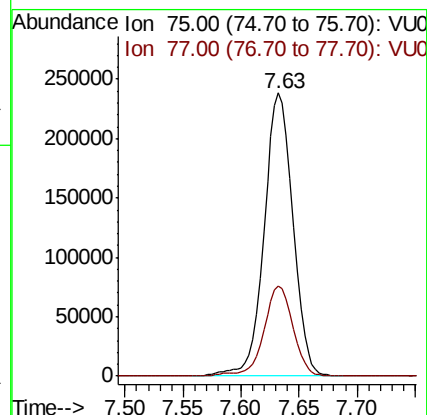
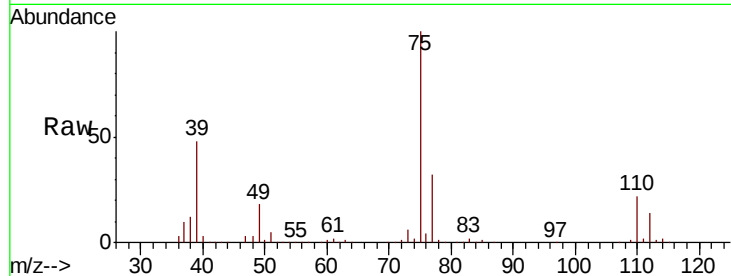




#39
 cis-1,3-Dichloropropene
 Concen: 51.257 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

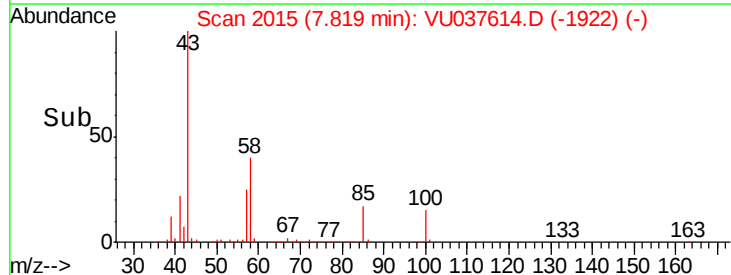
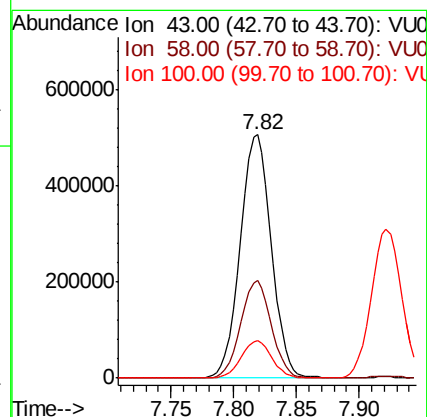
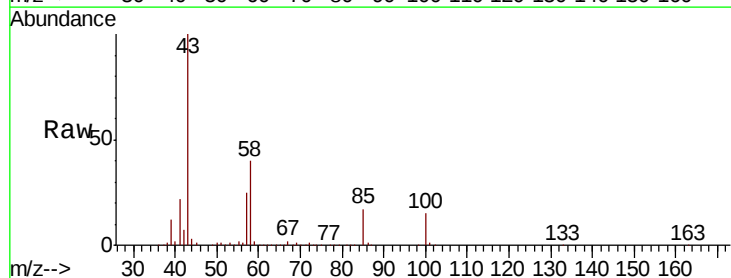
Instrument :
 MSVOA_U
 ClientSampleId :

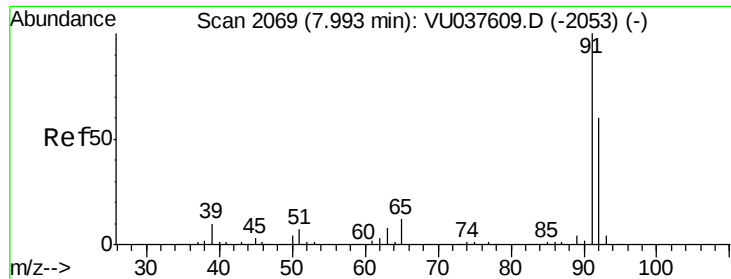
Tot Ion: 75 Resp: 412024
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 99.775 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion: 43 Resp: 870257
 Ion Ratio Lower Upper
 43 100
 58 39.6 31.5 47.3
 100 15.2 12.0 18.0





#42

Toluene

Concen: 51.458 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

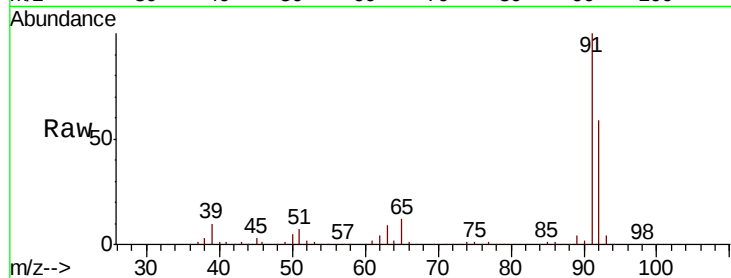
ClientSampleId :

Tot Ion: 91 Resp: 976994

Ion Ratio Lower Upper

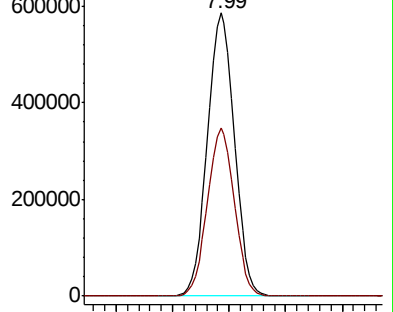
91 100

92 59.2 41.8 77.6

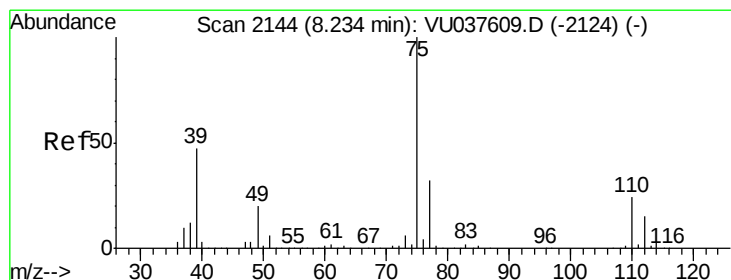
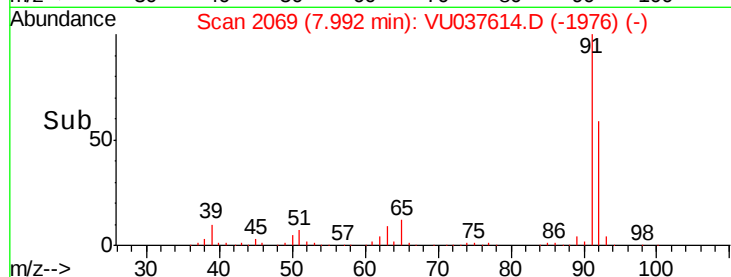


Abundance Ion 91.00 (90.70 to 91.70): VU037609.D (-2053) (-)

Ion 92.00 (91.70 to 92.70): VU037609.D (-2053) (-)



Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.257 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037614.D

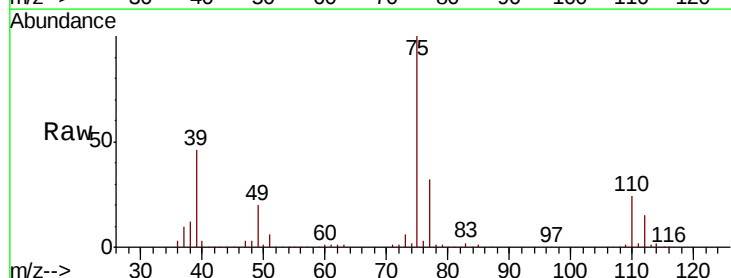
Acq: 09 Apr 2020 13:06

Tgt Ion: 75 Resp: 399386

Ion Ratio Lower Upper

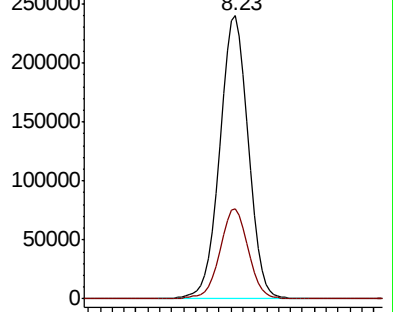
75 100

77 31.8 22.7 42.1

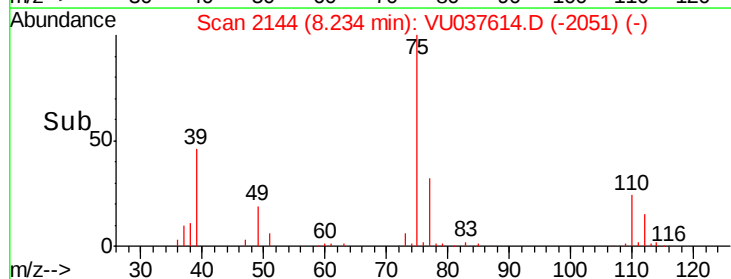


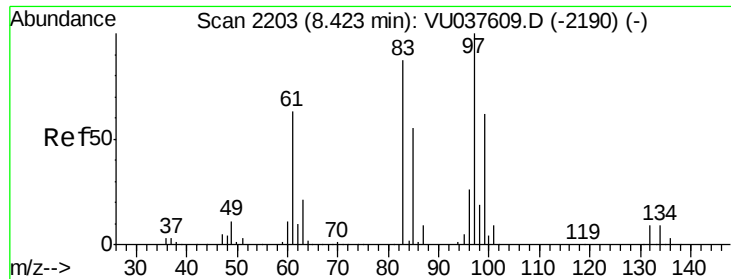
Abundance Ion 75.00 (74.70 to 75.70): VU037609.D (-2124) (-)

Ion 77.00 (76.70 to 77.70): VU037609.D (-2124) (-)



Time-->

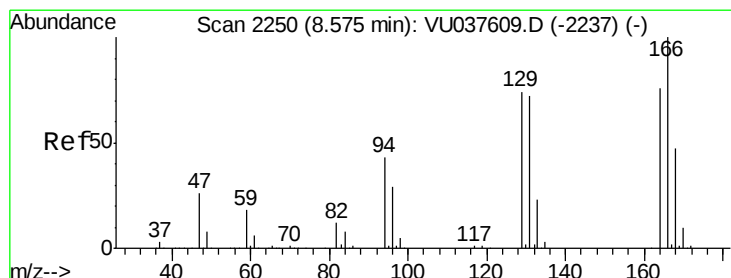
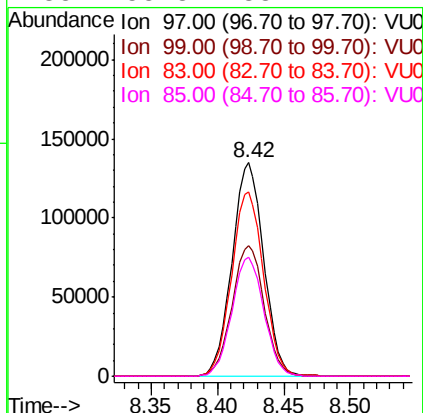
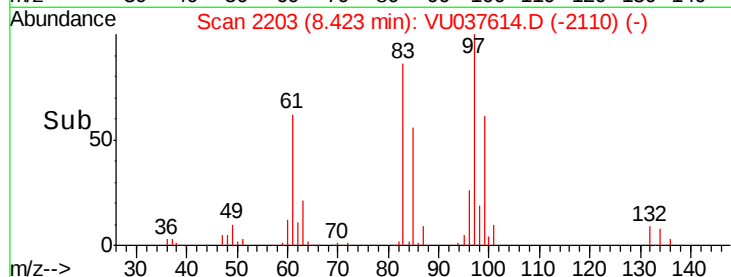
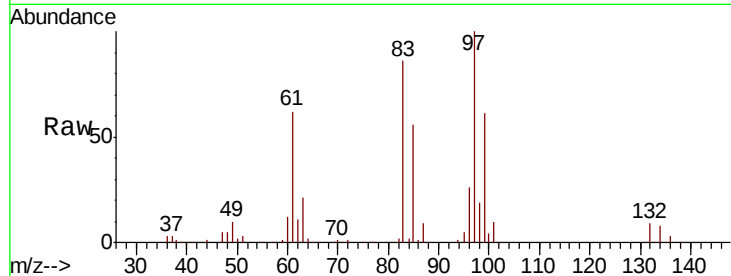




#45
 1,1,2-Trichloroethane
 Concen: 51.055 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

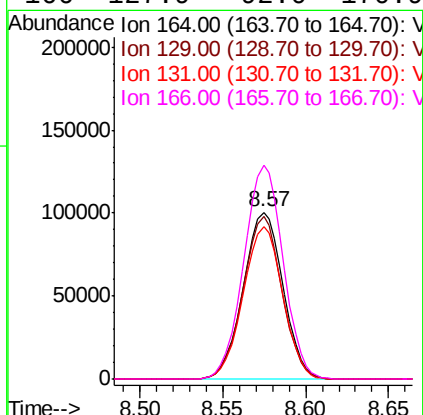
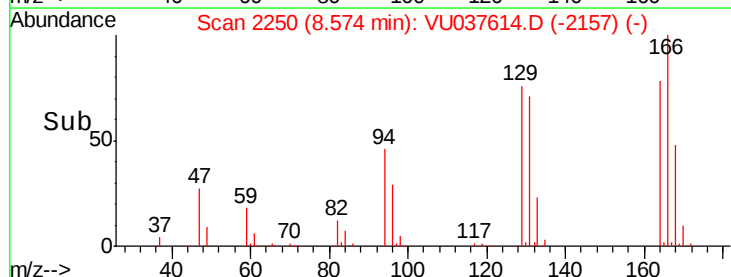
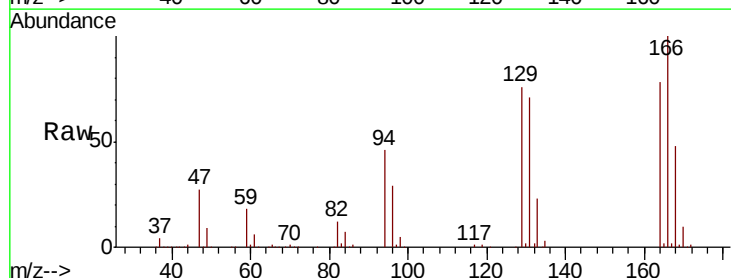
Instrument :
 MSVOA_U
 ClientSampleId :

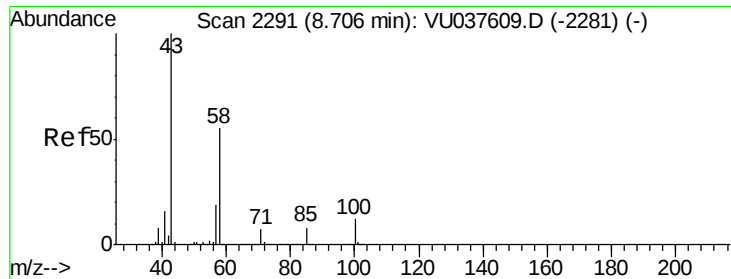
Tot Ion:	97	Resp:	223725
Ion	Ratio	Lower	Upper
97	100		
99	61.4	43.6	81.0
83	86.1	61.2	113.8
85	55.8	38.4	71.4



#46
 Tetrachloroethene
 Concen: 51.115 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion:	164	Resp:	167330
Ion	Ratio	Lower	Upper
164	100		
129	97.0	68.0	126.2
131	90.9	65.8	122.2
166	127.9	92.0	170.9

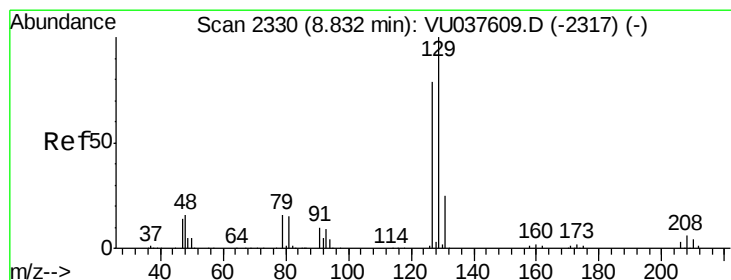
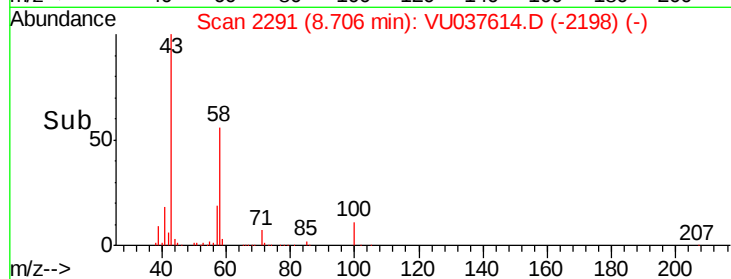
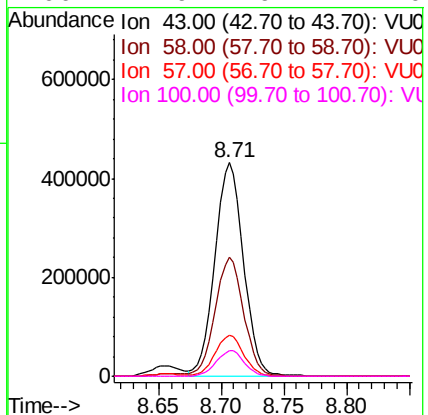
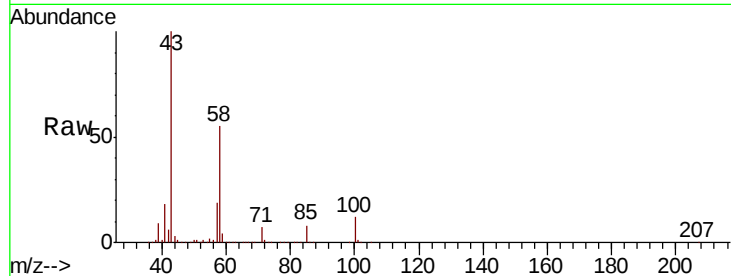




#48
2-Hexanone
Concen: 99.132 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

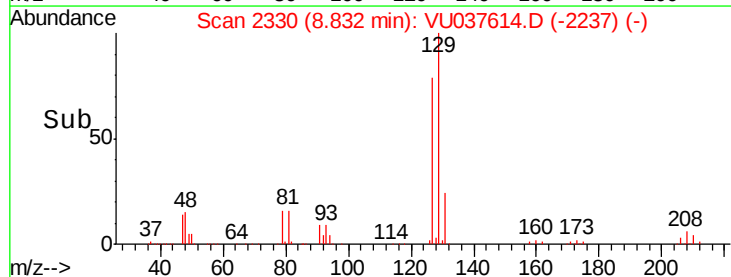
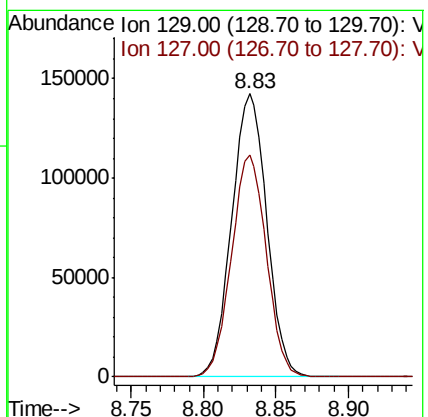
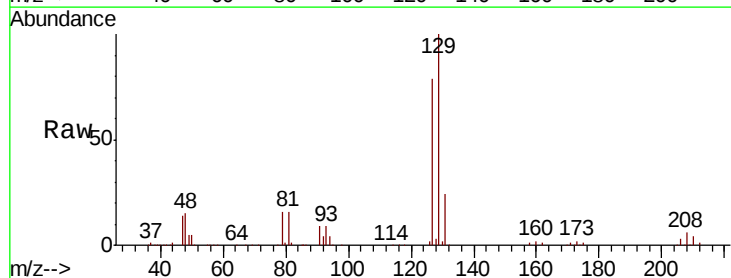
Instrument :
MSVOA_U
ClientSampleId :

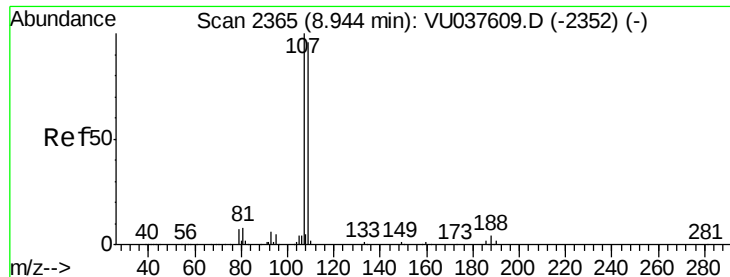
Tot Ion:	43	Resp:	682730
Ion	Ratio	Lower	Upper
43	100		
58	55.7	44.0	66.0
57	19.2	15.2	22.8
100	11.9	9.4	14.0



#49
Dibromochloromethane
Concen: 50.968 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037614.D
Acq: 09 Apr 2020 13:06

Tgt Ion:	129	Resp:	239500
Ion	Ratio	Lower	Upper
129	100		
127	78.5	55.2	102.6

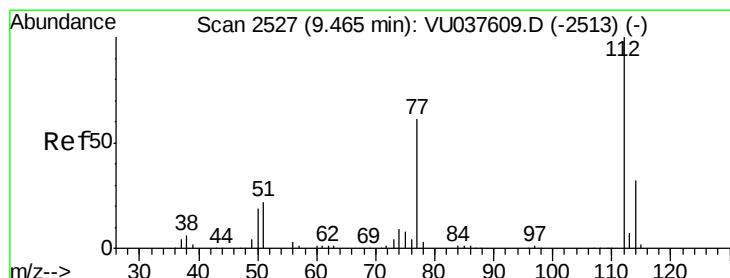
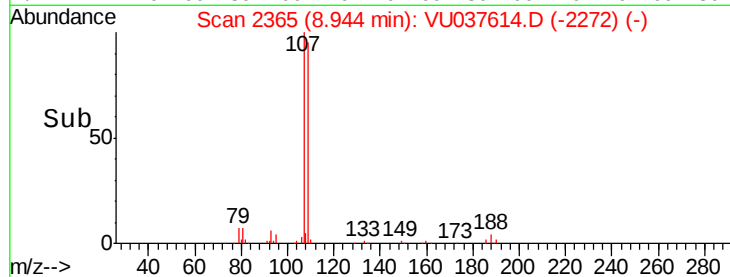
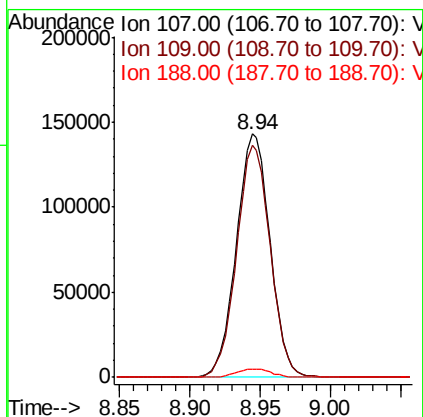
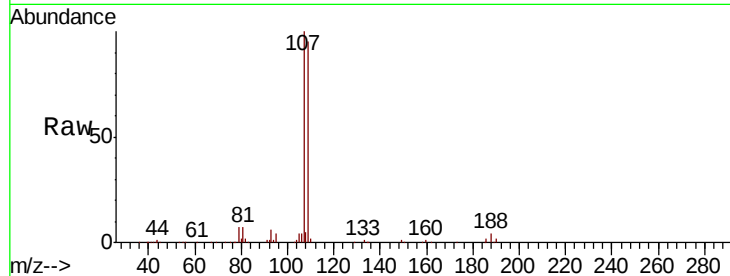




#50
 1,2-Dibromoethane
 Concen: 50.651 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

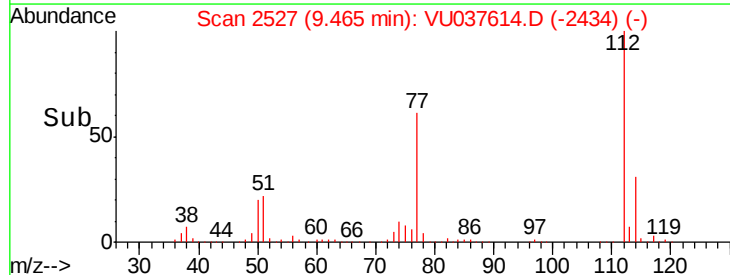
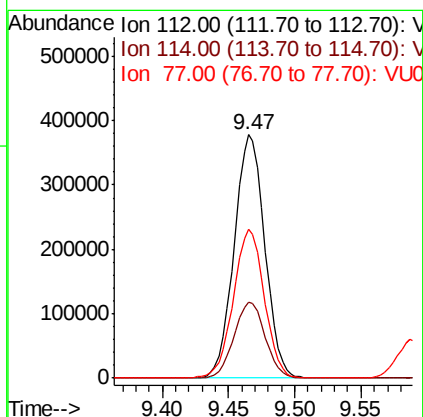
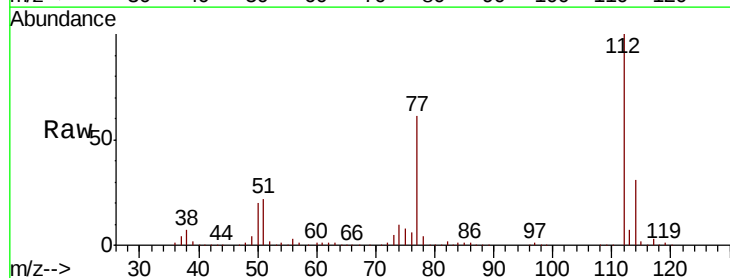
Instrument :
 MSVOA_U
 ClientSampleId :

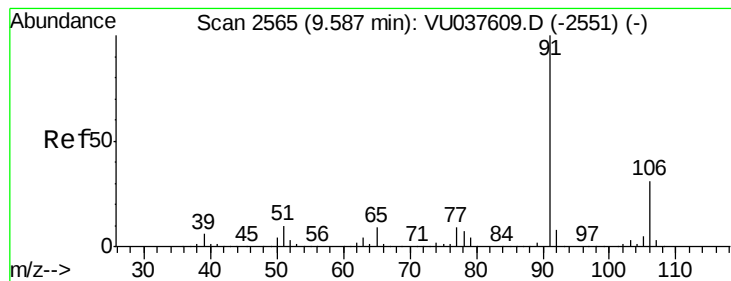
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.2	67.3	125.1
188	3.6	2.9	4.3



#51
 Chlorobenzene
 Concen: 51.106 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	22.4	41.6
77	61.1	49.2	73.8





#52

Ethylbenzene

Concen: 51.595 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

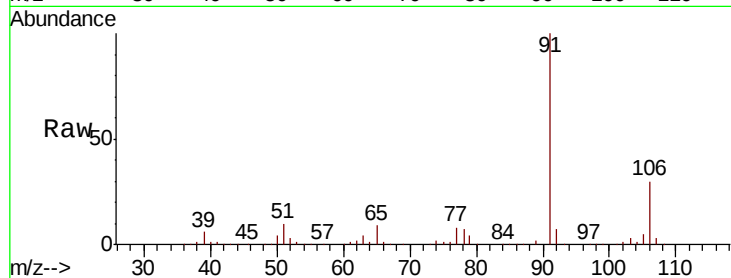
ClientSampleId :

Tot Ion: 91 Resp: 1098303

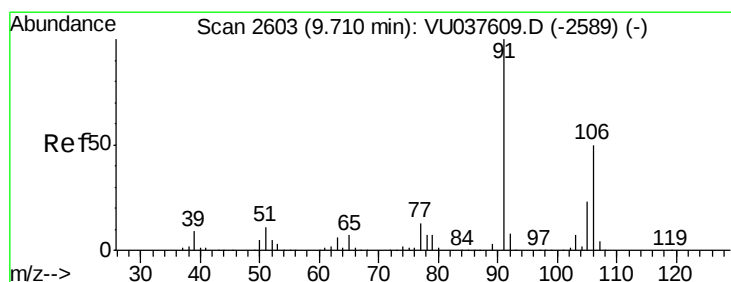
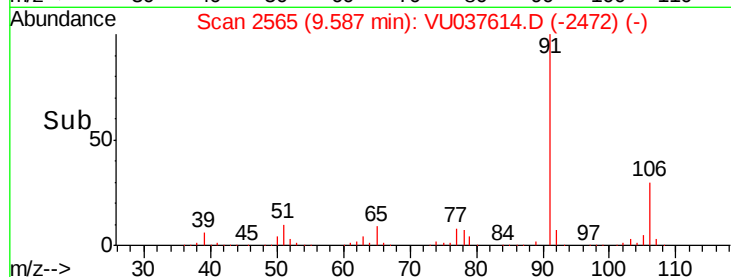
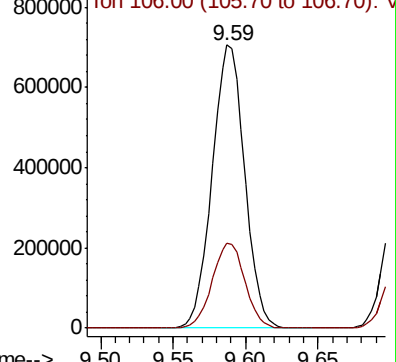
Ion Ratio Lower Upper

91 100

106 30.2 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU037614.D (-2472) (-)



#53

m,p-Xylene

Concen: 51.573 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU037614.D

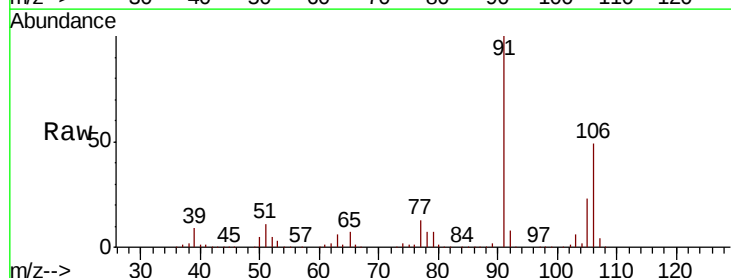
Acq: 09 Apr 2020 13:06

Tgt Ion: 106 Resp: 416858

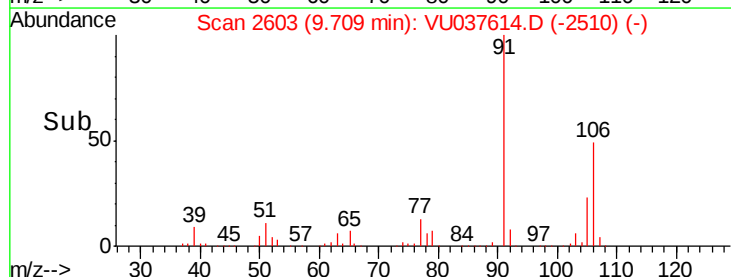
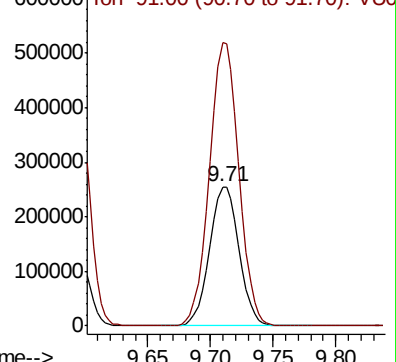
Ion Ratio Lower Upper

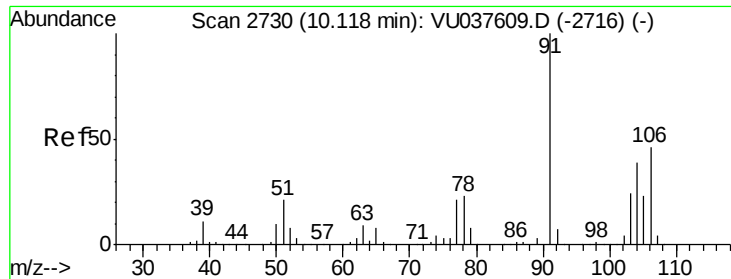
106 100

91 203.4 140.8 261.6



Abundance Ion 106.00 (105.70 to 106.70): VU037614.D (-2510) (-)





#54

o-xylene

Concen: 50.724 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

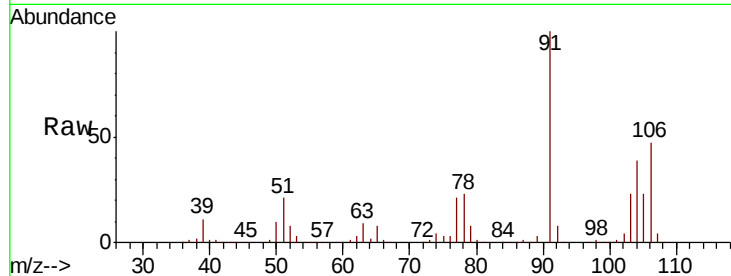
ClientSampled :

Tot Ion:106 Resp: 406624

Ion Ratio Lower Upper

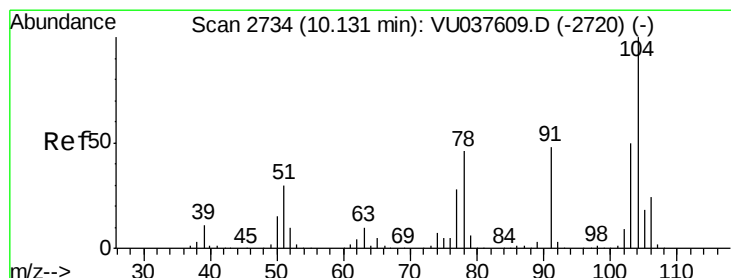
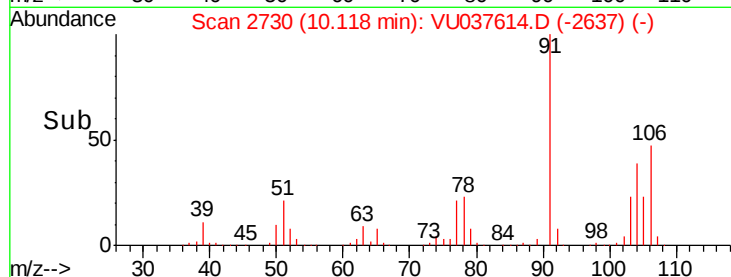
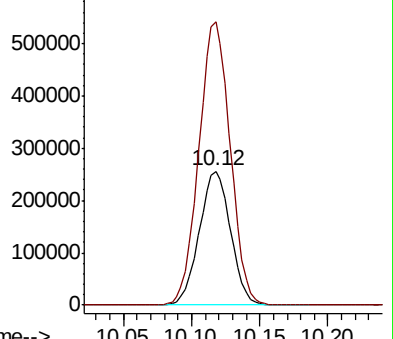
106 100

91 211.8 151.1 280.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.293 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU037614.D

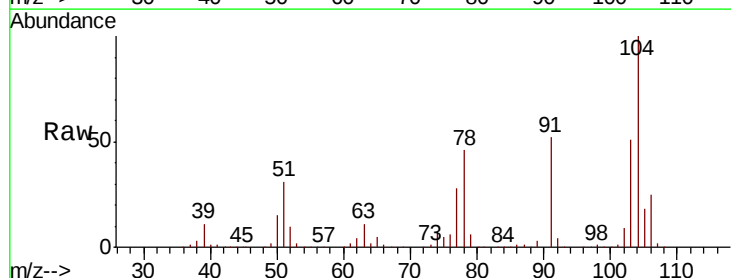
Acq: 09 Apr 2020 13:06

Tgt Ion:104 Resp: 712941

Ion Ratio Lower Upper

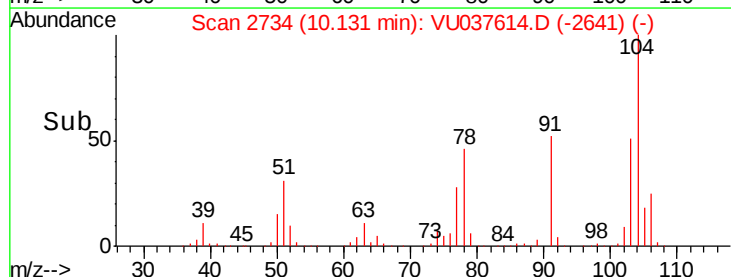
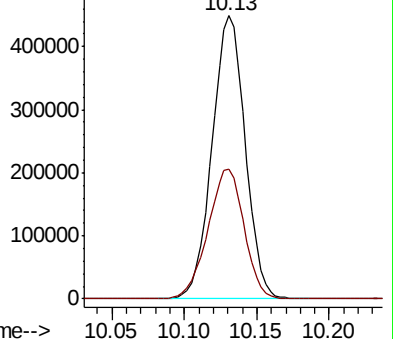
104 100

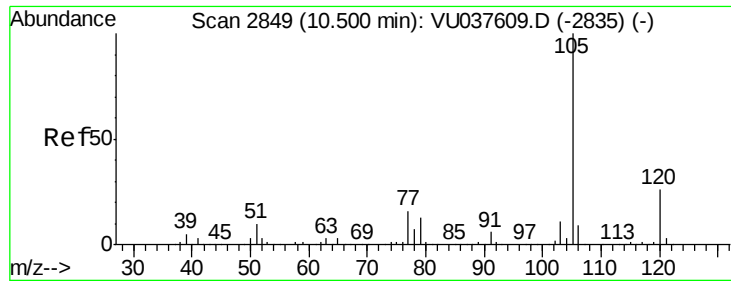
78 46.1 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.438 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

ClientSampled :

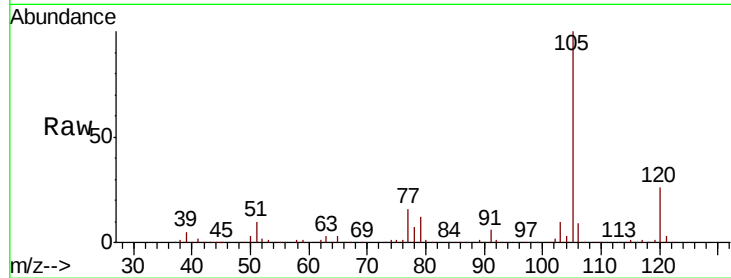
Tot Ion:105 Resp: 1073655

Ion Ratio Lower Upper

105 100

120 26.0 20.7 31.1

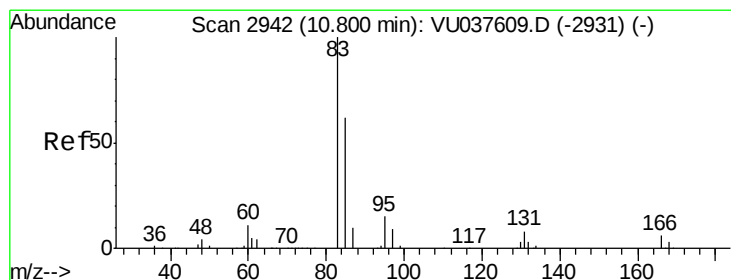
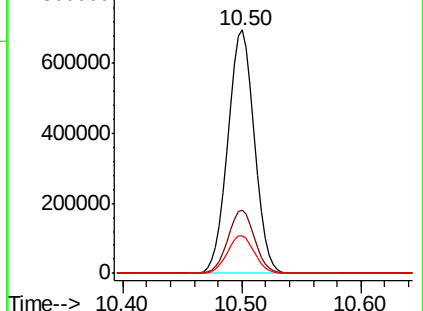
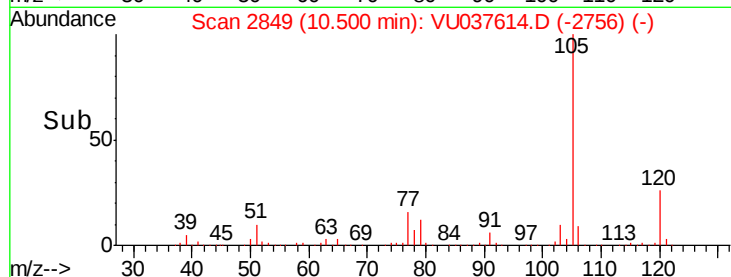
77 15.8 12.7 19.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.715 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

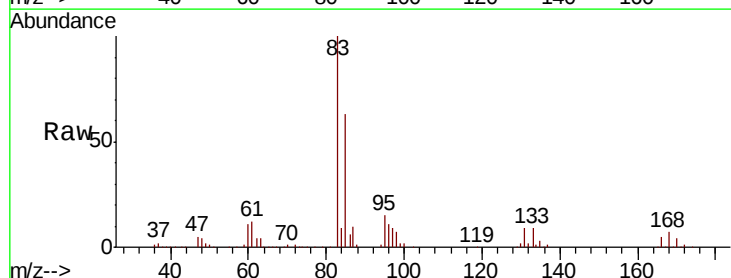
Tgt Ion: 83 Resp: 396825

Ion Ratio Lower Upper

83 100

85 63.1 44.2 82.2

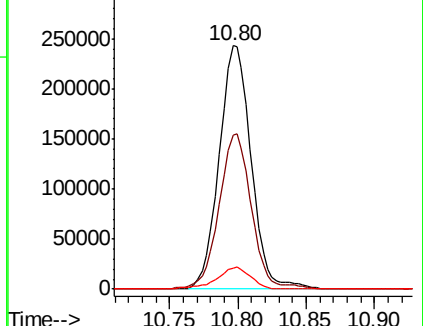
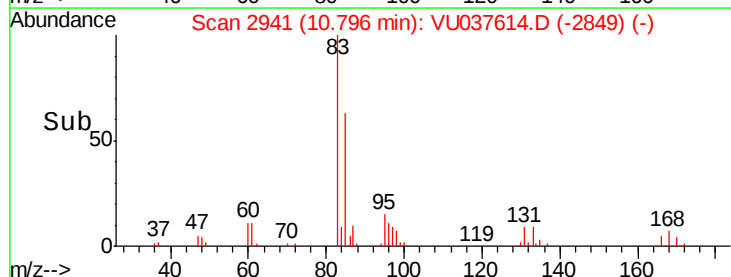
131 8.8 7.6 11.4

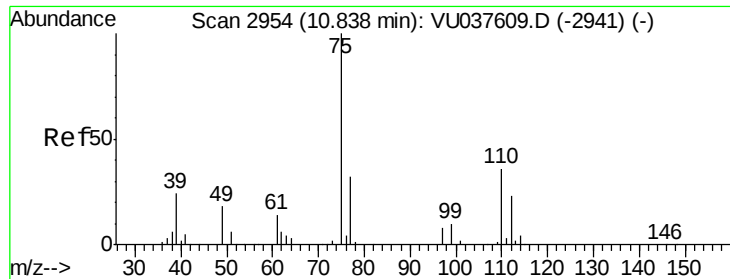


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.897 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

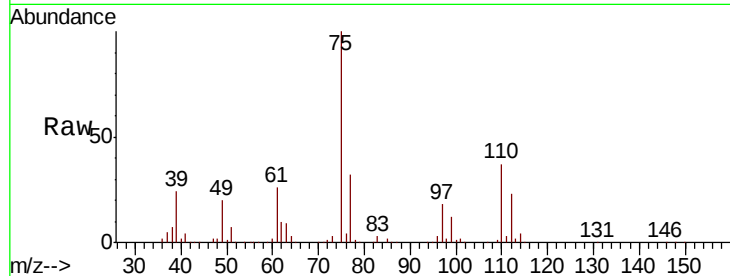
ClientSampleId :

Tot Ion: 75 Resp: 332900

Ion Ratio Lower Upper

75 100

77 32.3 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU037609.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU037609.D (-2941) (-)

10.84

200000

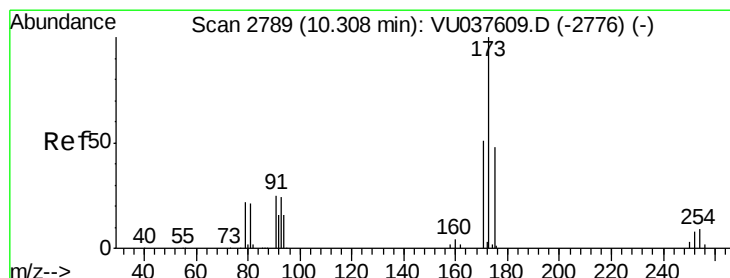
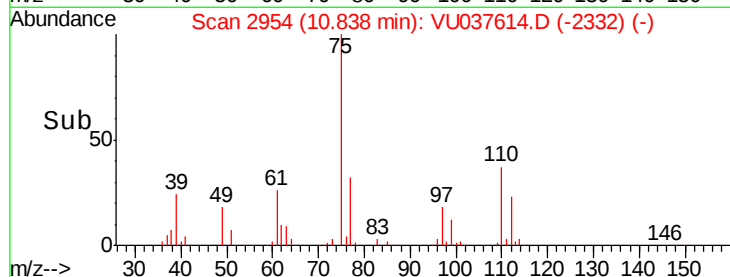
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 51.094 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

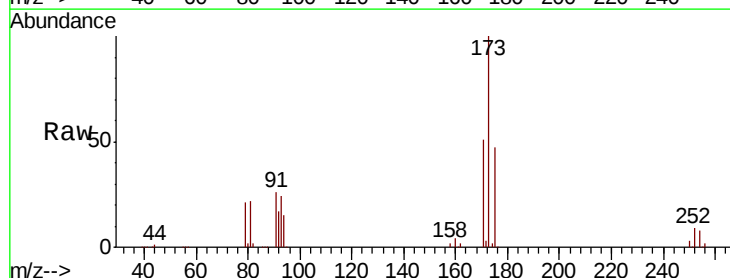
Tgt Ion: 173 Resp: 188200

Ion Ratio Lower Upper

173 100

175 48.0 38.7 58.1

254 8.0 7.0 10.6



Abundance Ion 173.00 (172.70 to 173.70): VU037609.D (-2776) (-)

Ion 175.00 (174.70 to 175.70): VU037609.D (-2776) (-)

Ion 254.00 (253.70 to 254.70): VU037609.D (-2776) (-)

10.31

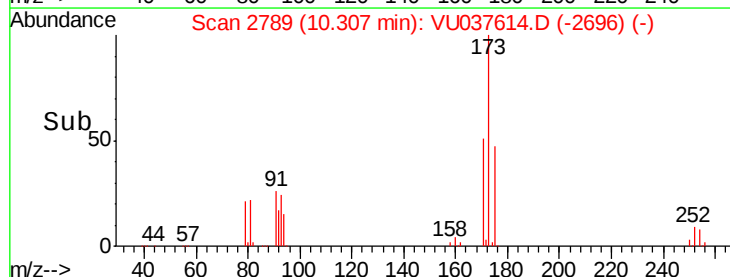
150000

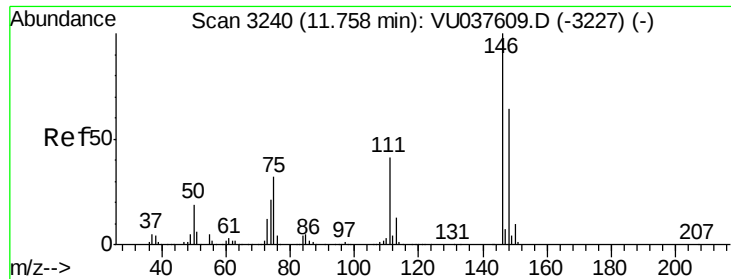
100000

50000

0

Time-->

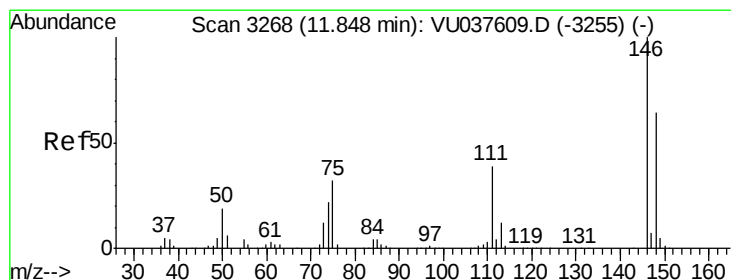
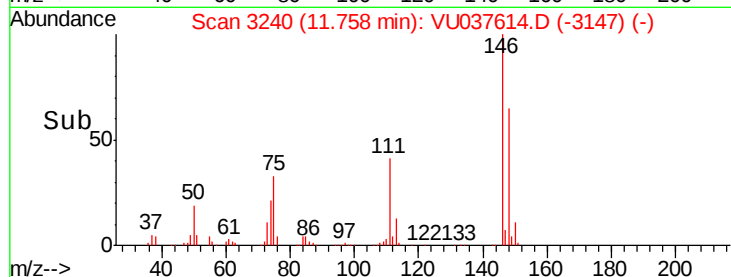
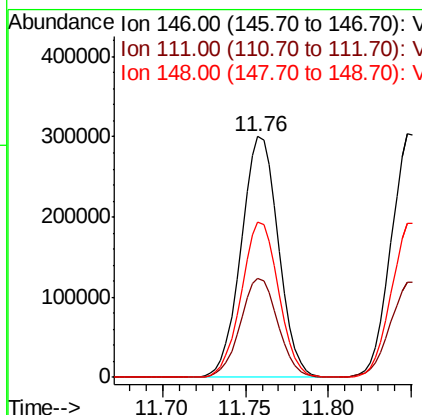
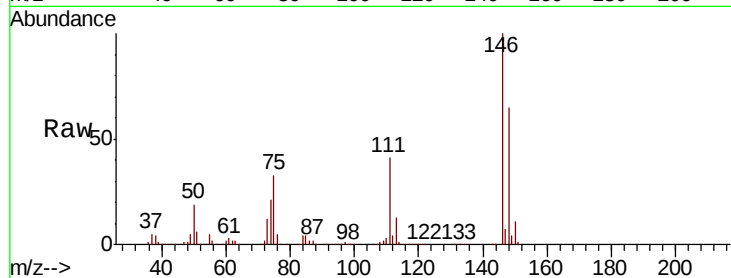




#62
 1,3-Dichlorobenzene
 Concen: 50.253 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

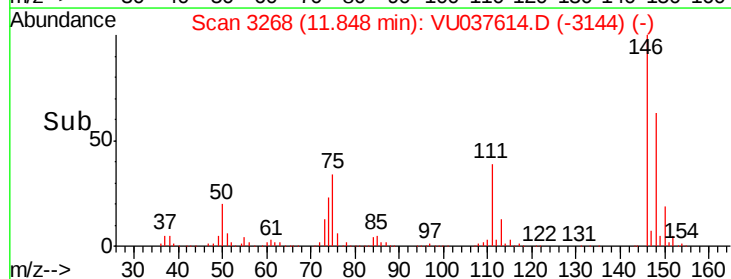
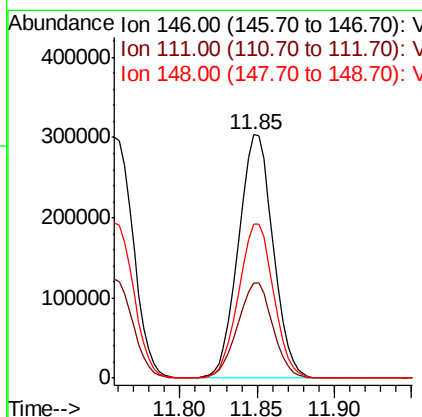
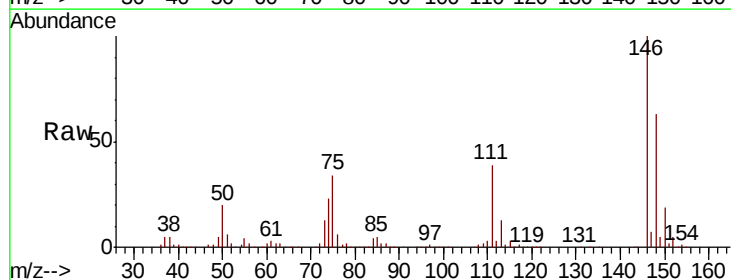
Instrument :
 MSVOA_U
 ClientSampled :

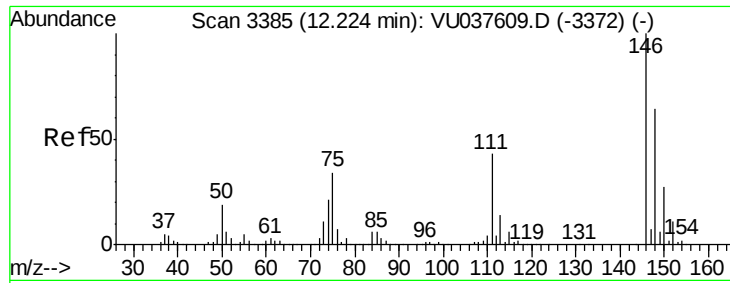
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	28.6	53.0
148	64.6	44.7	82.9



#63
 1,4-Dichlorobenzene
 Concen: 50.477 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	27.2	50.6
148	63.1	44.9	83.3





#65

1,2-Dichlorobenzene

Concen: 50.393 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

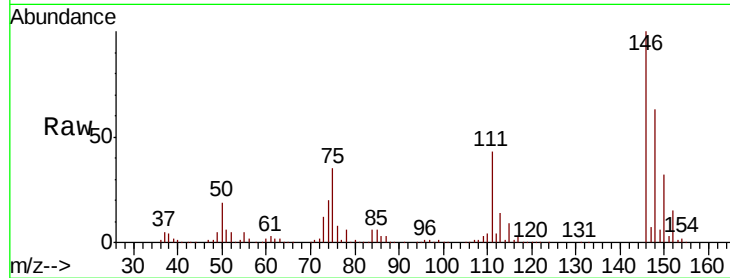
Tot Ion:146 Resp: 464608

Ion Ratio Lower Upper

146 100

111 42.8 34.2 51.4

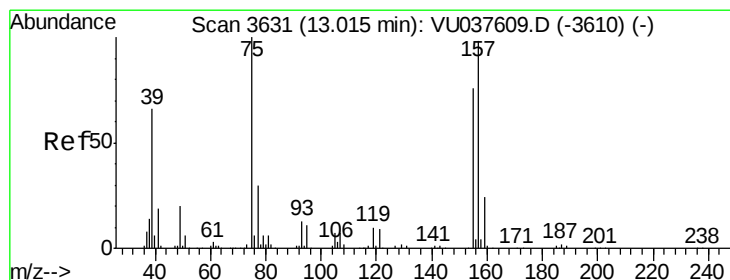
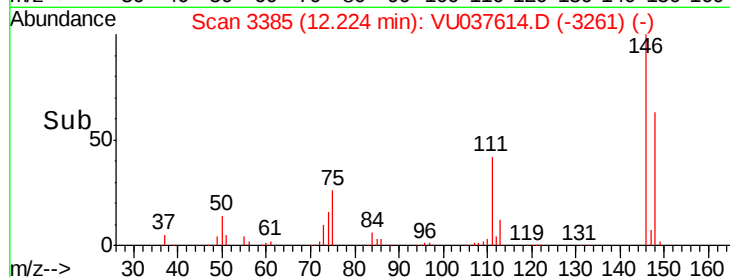
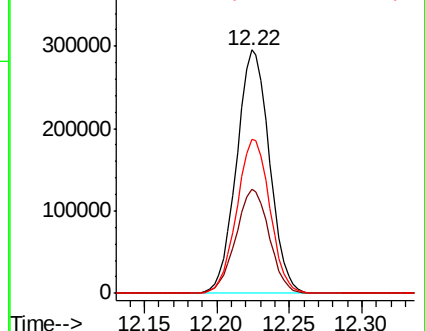
148 63.1 50.9 76.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 49.282 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

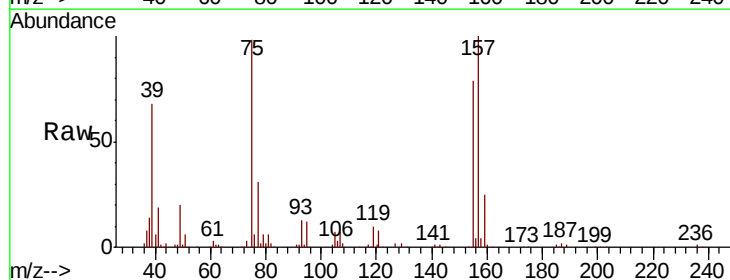
Tgt Ion: 75 Resp: 105254

Ion Ratio Lower Upper

75 100

155 80.5 60.9 91.3

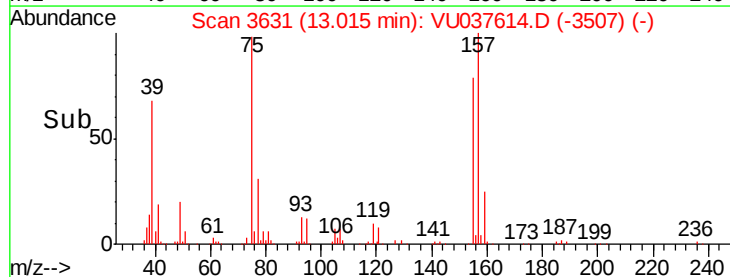
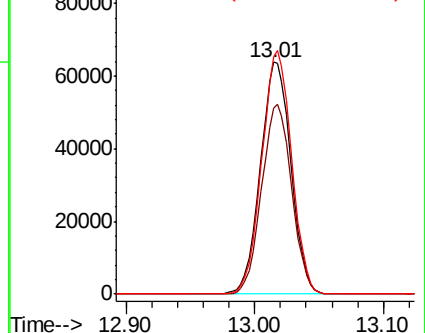
157 102.3 78.8 118.2

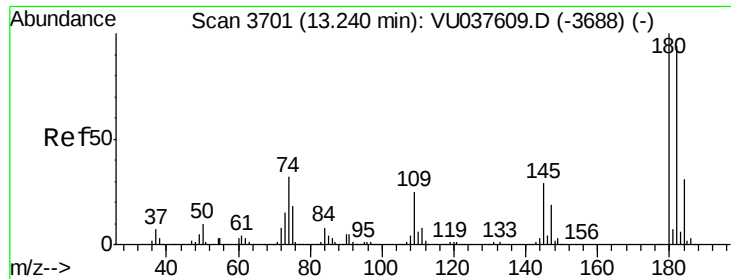


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

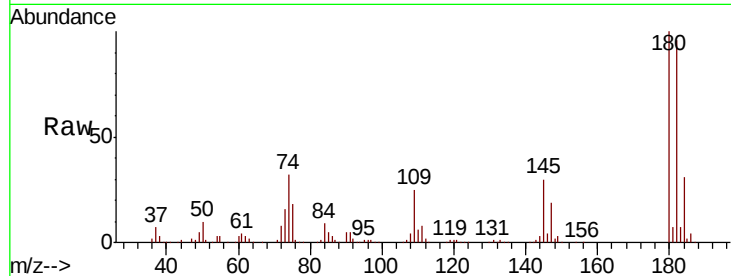




#67
 1,3,5-Trichlorobenzene
 Concen: 51.325 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.4
184	30.8	24.7	37.1
145	29.8	23.8	35.6



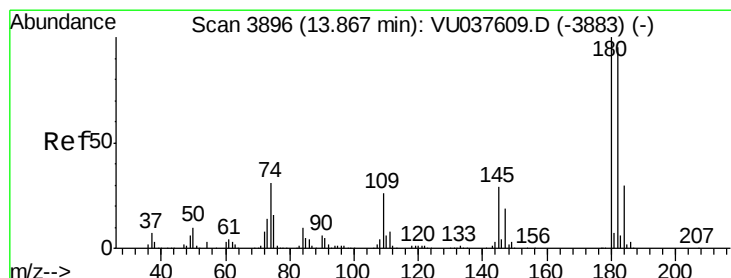
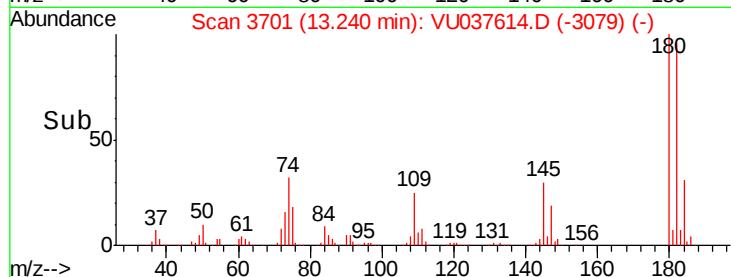
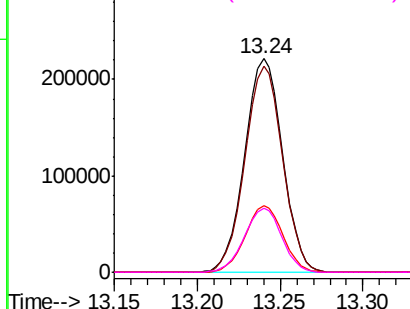
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

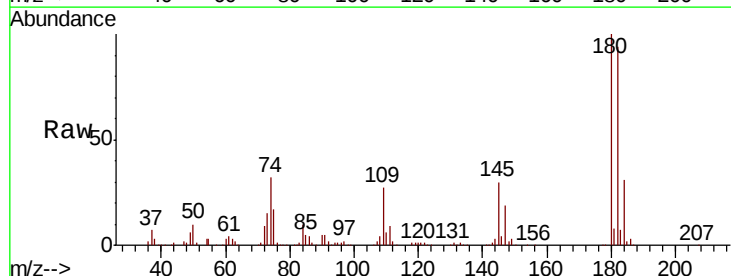
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.192 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU037614.D
 Acq: 09 Apr 2020 13:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.5	114.7
145	29.8	23.8	35.6

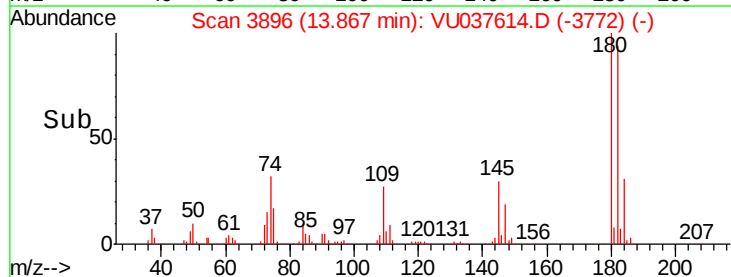
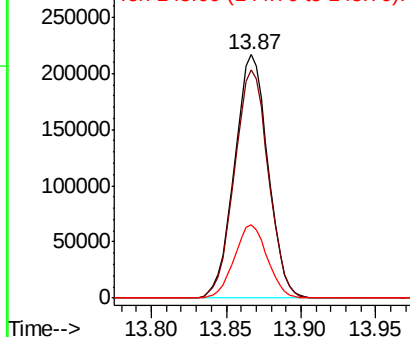


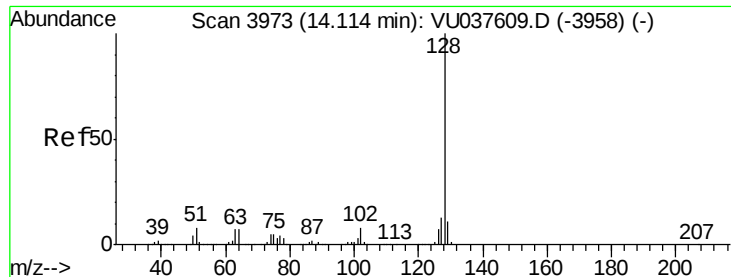
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 49.411 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

Instrument :

MSVOA_U

ClientSampleId :

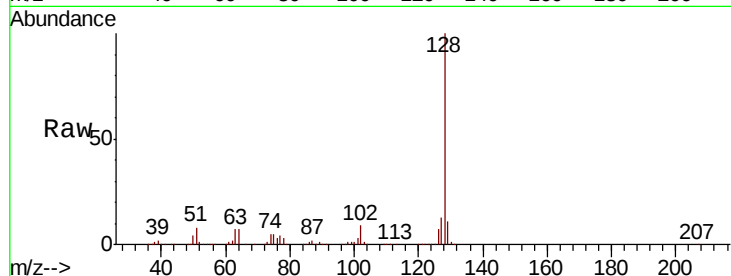
Tot Ion:128 Resp: 1202848

Ion Ratio Lower Upper

128 100

127 12.9 10.5 15.7

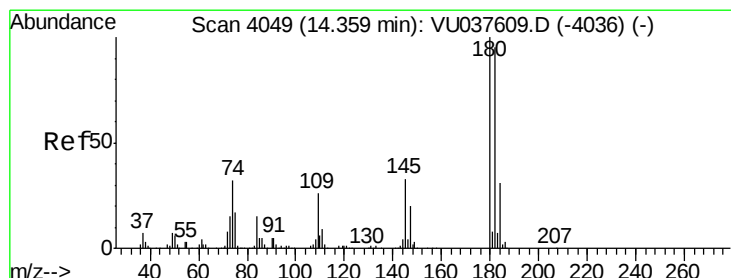
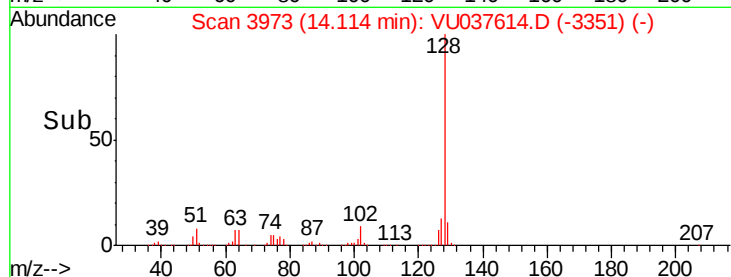
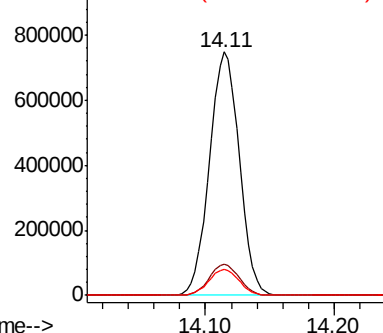
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.692 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037614.D

Acq: 09 Apr 2020 13:06

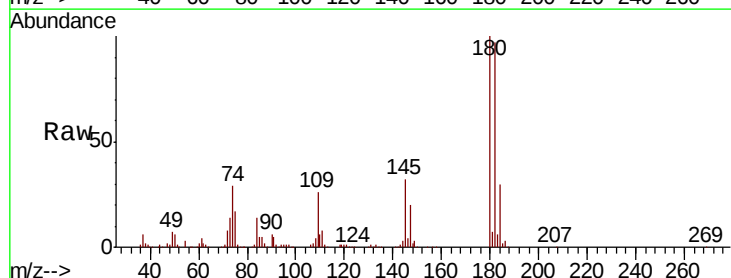
Tgt Ion:180 Resp: 333231

Ion Ratio Lower Upper

180 100

182 96.4 75.6 113.4

145 32.4 25.8 38.8



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

