

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031320\
 Data File : VU037258.D
 Acq On : 13 Mar 2020 21:54
 Operator : JC/MD
 Sample : VSTDCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 14 00:28:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Mar 14 00:24:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	127626	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	129010	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	65524	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	39245	4.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.60%
7) Chloroethane-d5	1.93	69	32782	5.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.80%
11) 1,1-Dichloroethene-d2	2.59	63	78135	4.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.40%
20) 2-Butanone-d5	4.67	46	97791	45.62	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	91.24%
24) Chloroform-d	5.10	84	75769	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
26) 1,2-Dichloroethane-d4	5.74	65	45831	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.76	84	145395	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	6.72	67	44685	4.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.20%
41) Toluene-d8	7.92	98	142492	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
43) trans-1,3-Dichloropropene-	8.20	79	19753	4.77	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.40%
46) 2-Hexanone-d5	8.66	63	85747	49.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.48%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	38026	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	53876	4.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	75208	4.576	ug/L 99
3) Chloromethane	1.54	50	67084	4.785	ug/L 99
5) Vinyl chloride	1.62	62	65206	5.193	ug/L 90
6) Bromomethane	1.87	94	33473	7.093	ug/L 98
8) Chloroethane	1.95	64	35887	5.576	ug/L 94
9) Trichlorofluoromethane	2.16	101	97275	5.459	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	43712	4.746	ug/L 99
12) 1,1-Dichloroethene	2.60	96	40462	4.857	ug/L 97
13) Acetone	2.65	43	73430	41.801	ug/L 92
14) Carbon disulfide	2.82	76	130468	4.721	ug/L 99
15) Methyl Acetate	2.98	43	18800	4.573	ug/L 100
16) Methylene chloride	3.08	84	46621	4.661	ug/L 97
17) Methyl tert-butyl Ether	3.40	73	111128	4.966	ug/L 96
18) trans-1,2-Dichloroethene	3.39	96	41653	4.729	ug/L 99
19) 1,1-Dichloroethane	3.91	63	89703	5.031	ug/L 99
21) 2-Butanone	4.75	43	126766	45.843	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	47715	4.922	ug/L 95

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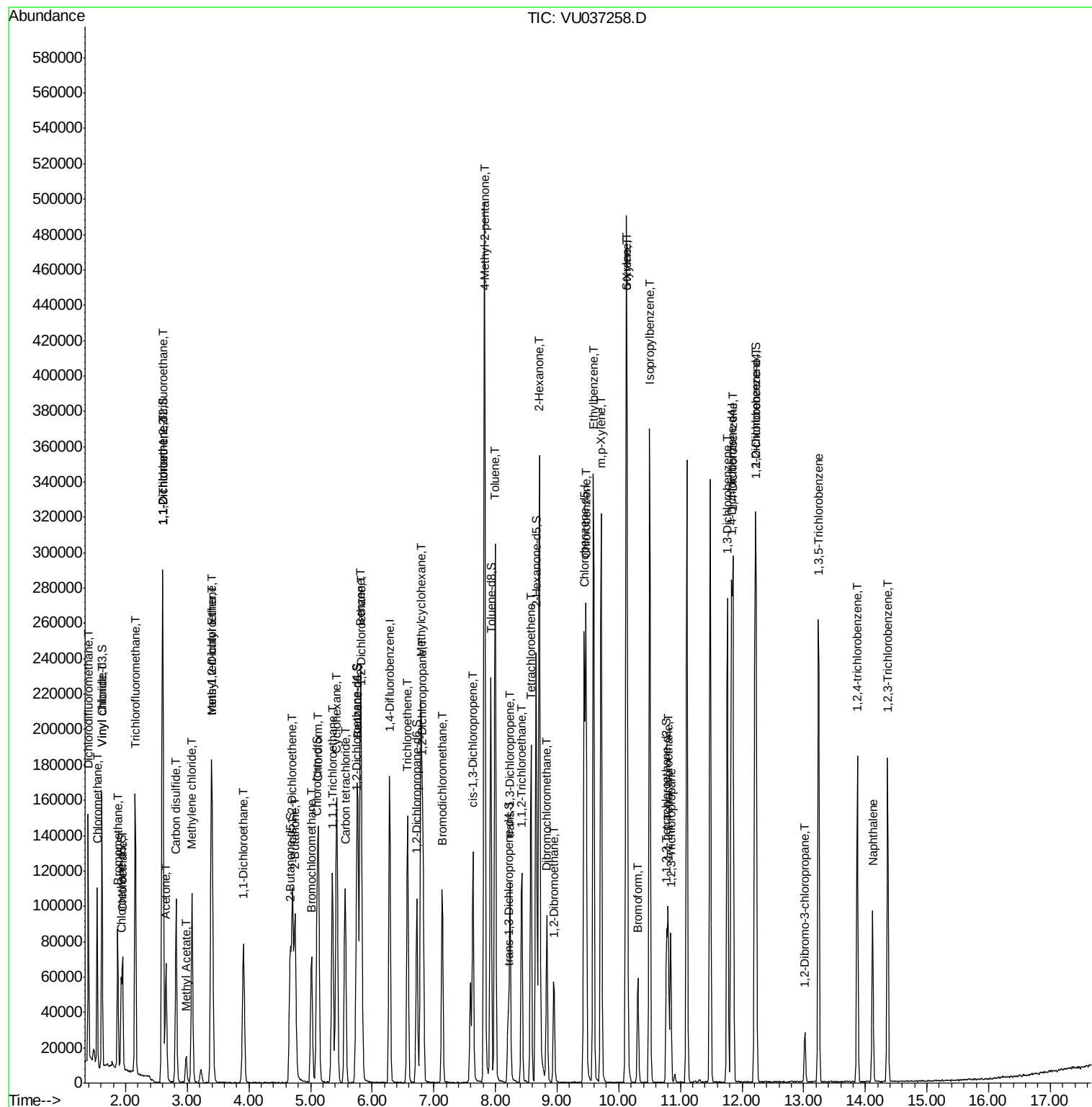
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	21354	5.026	ug/L	95
25) Chloroform	5.13	83	103949	5.344	ug/L	97
27) 1,2-Dichloroethane	5.83	62	66268	4.888	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	83544	5.056	ug/L	98
30) Cyclohexane	5.43	56	78235	4.895	ug/L	97
31) Carbon tetrachloride	5.56	117	75136	5.249	ug/L	99
33) Benzene	5.81	78	187666	4.920	ug/L	100
34) Trichloroethene	6.57	95	50636	4.916	ug/L	98
35) Methylcyclohexane	6.79	83	77102	4.842	ug/L	96
37) 1,2-Dichloropropane	6.83	63	50048	4.986	ug/L	98
38) Bromodichloromethane	7.14	83	67527	5.071	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	71122	4.936	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	319320	44.957	ug/L	97
42) Toluene	8.00	91	206630	5.046	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	60226	5.011	ug/L	96
45) 1,1,2-Trichloroethane	8.43	97	35138	4.852	ug/L	95
47) Tetrachloroethene	8.58	164	38582	4.817	ug/L	98
48) 2-Hexanone	8.71	43	233663	47.185	ug/L	98
49) Dibromochloromethane	8.83	129	45387	5.204	ug/L	99
50) 1,2-Dibromoethane	8.95	107	33136	4.825	ug/L	98
51) Chlorobenzene	9.47	112	128809	4.886	ug/L	100
52) Ethylbenzene	9.59	91	230554	5.092	ug/L	97
53) m,p-Xylene	9.71	106	85165	5.232	ug/L	97
54) o-Xylene	10.12	106	82528	5.200	ug/L	99
55) Styrene	10.13	104	137107	5.268	ug/L	99
56) Isopropylbenzene	10.50	105	225988	5.306	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	44797	5.009	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	33164	4.617	ug/L	95
61) Bromoform	10.31	173	26200	5.240	ug/L #	97
62) 1,3-Dichlorobenzene	11.76	146	103382	4.815	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	101319	4.751	ug/L	97
65) 1,2-Dichlorobenzene	12.23	146	97114	4.771	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	8121	5.196	ug/L	94
67) 1,3,5-Trichlorobenzene	13.24	180	76495	5.205	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	51700	5.187	ug/L	98
69) Naphthalene	14.12	128	74829	5.256	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	50453	5.394	ug/L	97

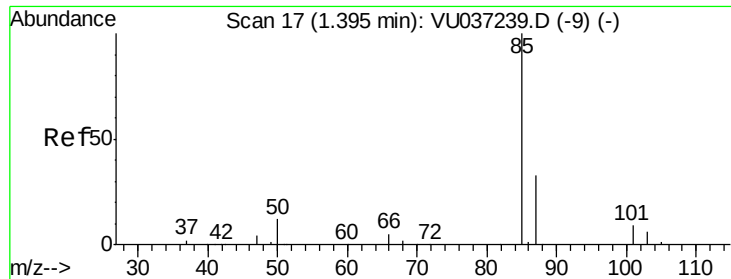
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.576 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

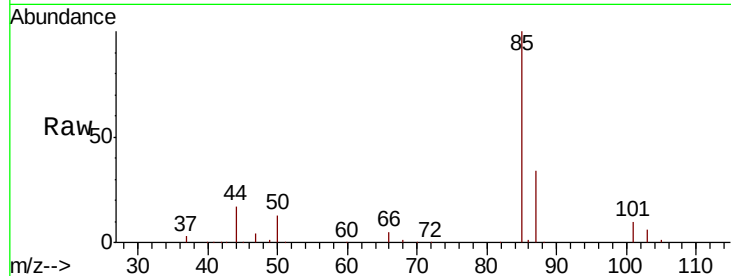
ClientSampleId :

Tot Ion: 85 Resp: 75208

Ion Ratio Lower Upper

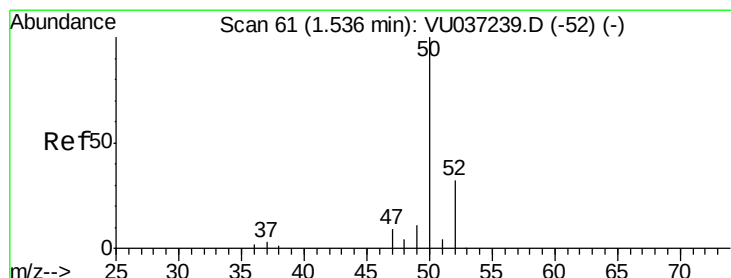
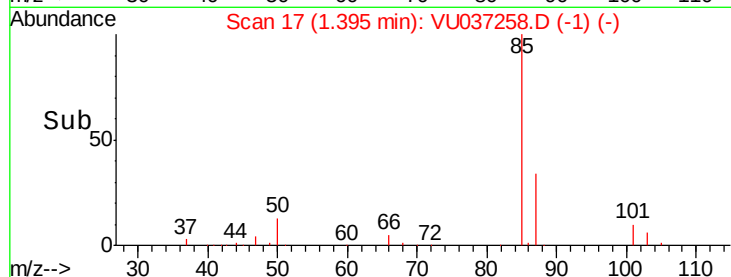
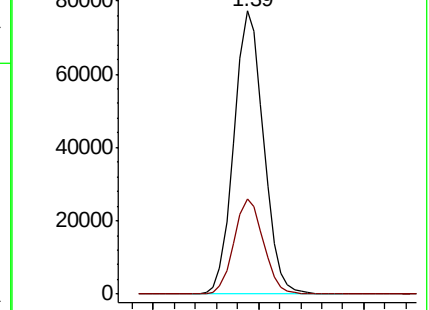
85 100

87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037239.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037239.D (-9) (-)



#3

Chloromethane

Concen: 4.785 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU037258.D

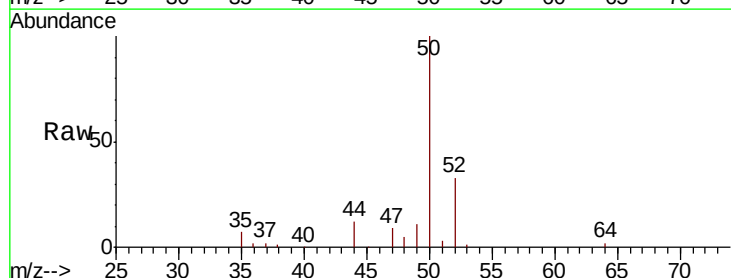
Acq: 13 Mar 2020 21:54

Tgt Ion: 50 Resp: 67084

Ion Ratio Lower Upper

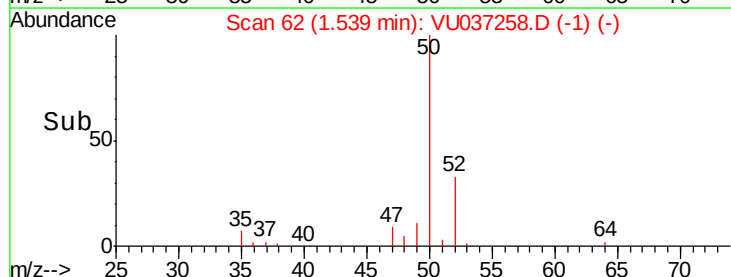
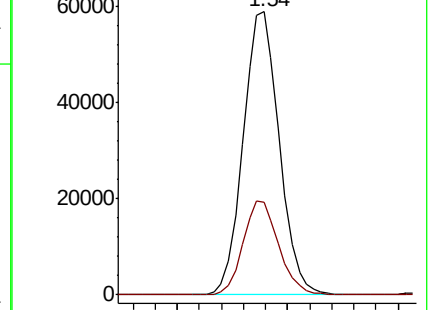
50 100

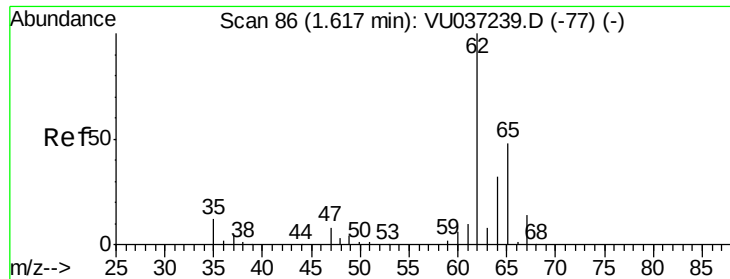
52 32.8 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU037239.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU037239.D (-52) (-)





#5

Vinyl chloride

Concen: 5.193 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

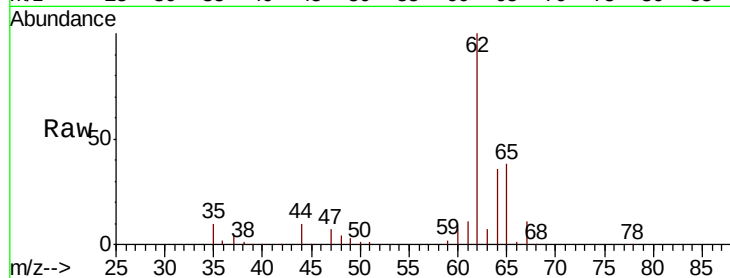
ClientSampleId :

Tot Ion: 62 Resp: 65206

Ion Ratio Lower Upper

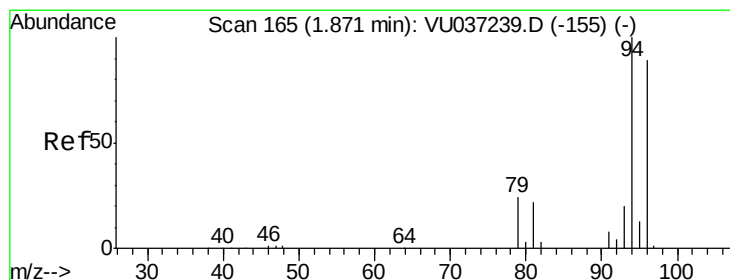
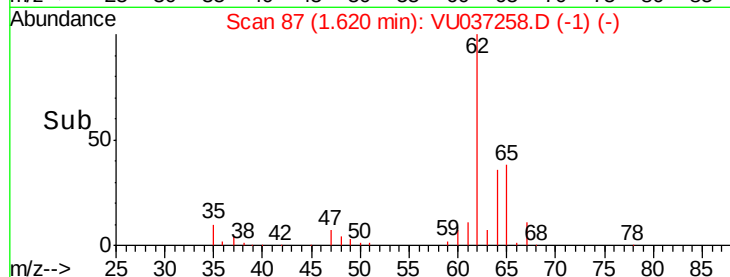
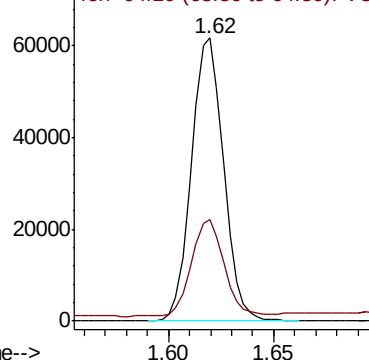
62 100

64 36.1 21.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VU037239.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037239.D (-77) (-)



#6

Bromomethane

Concen: 7.093 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU037258.D

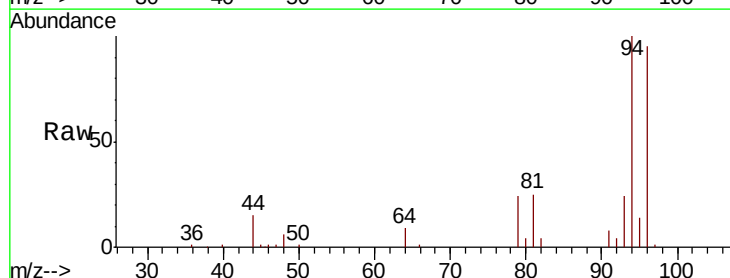
Acq: 13 Mar 2020 21:54

Tgt Ion: 94 Resp: 33473

Ion Ratio Lower Upper

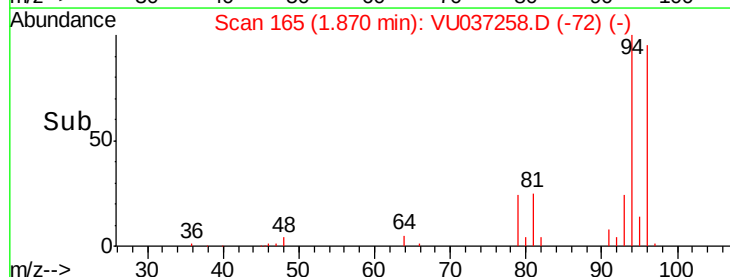
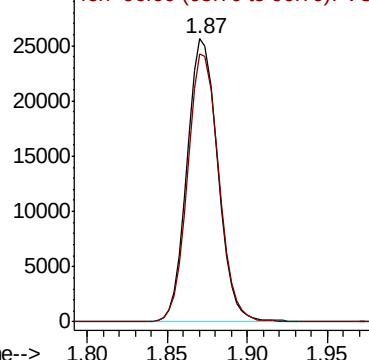
94 100

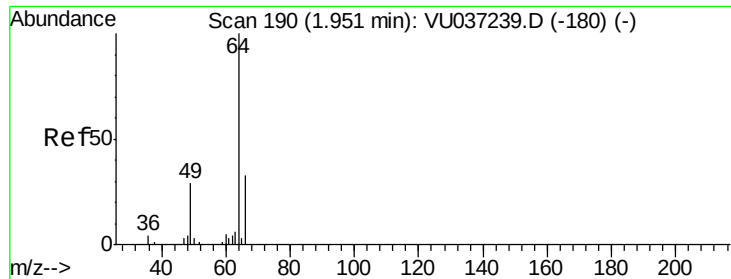
96 94.5 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU037239.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU037239.D (-155) (-)





#8

Chloroethane

Concen: 5.576 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

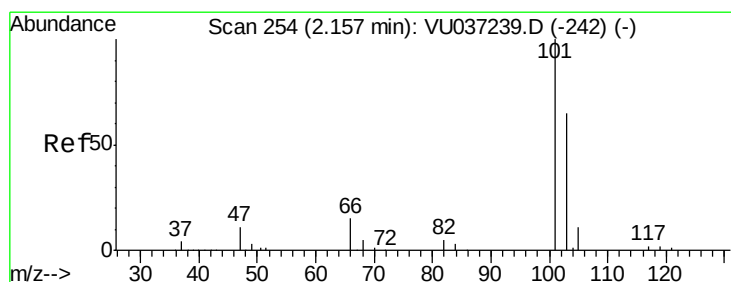
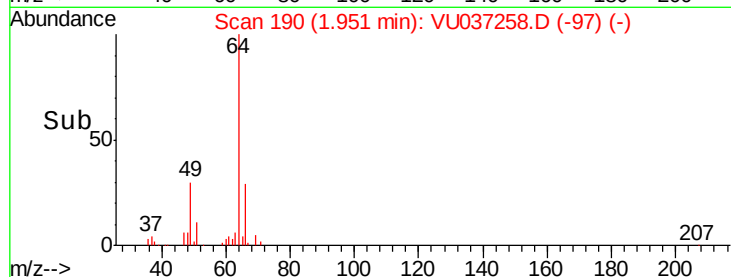
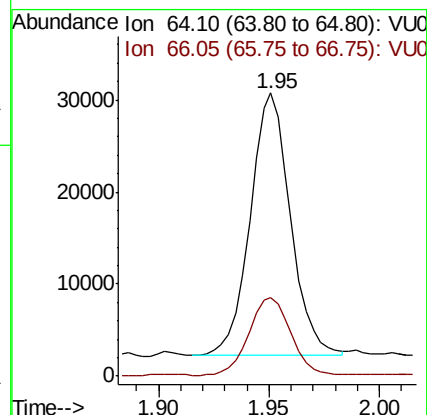
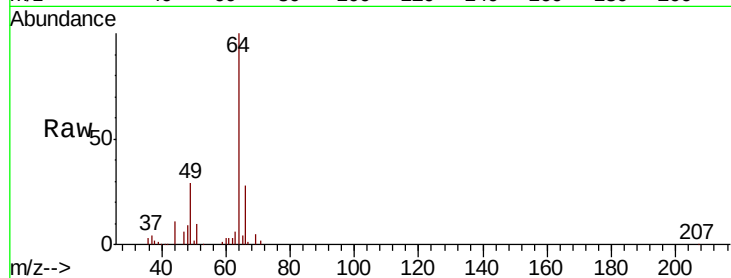
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 35887

Ion Ratio Lower Upper

64 100

66 27.9 22.0 40.8



#9

Trichlorofluoromethane

Concen: 5.459 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU037258.D

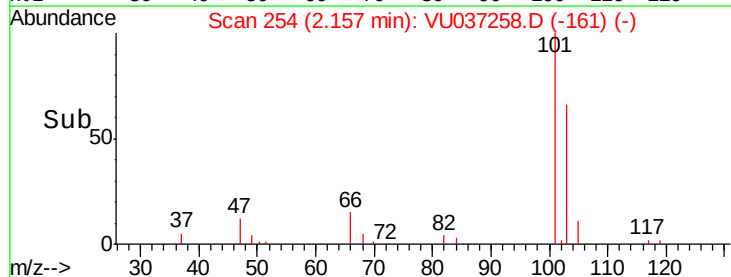
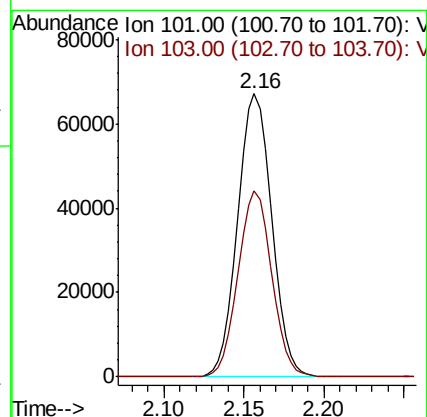
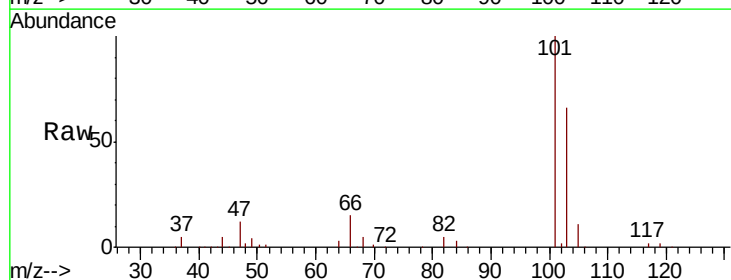
Acq: 13 Mar 2020 21:54

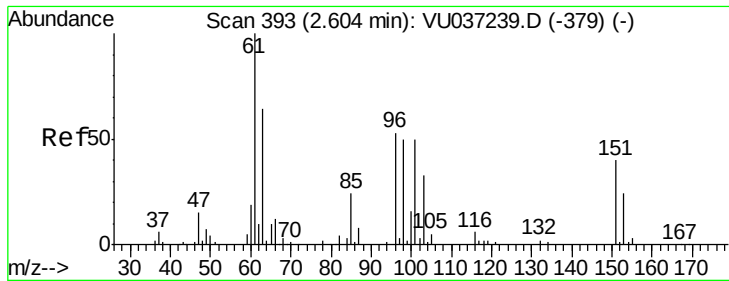
Tgt Ion: 101 Resp: 97275

Ion Ratio Lower Upper

101 100

103 65.0 50.2 75.4





#10

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

Concen: 4.746 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

ClientSampleId :

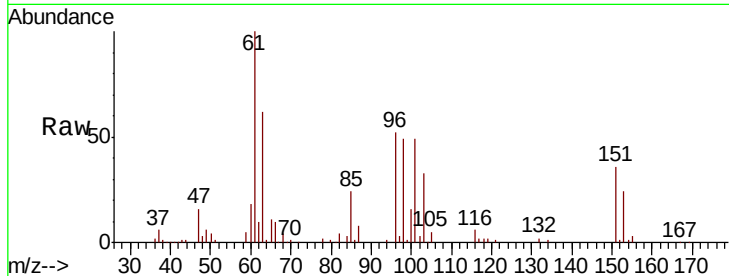
Tot Ion:101 Resp: 43712

Ion Ratio Lower Upper

101 100

85 48.5 37.5 56.3

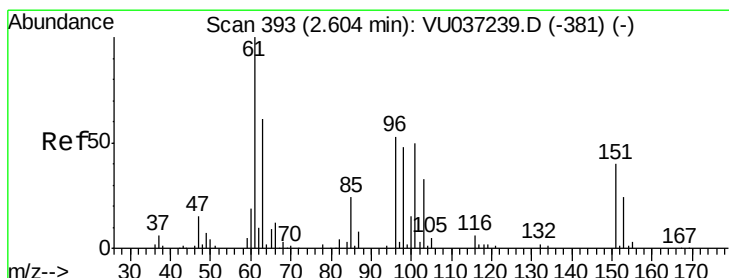
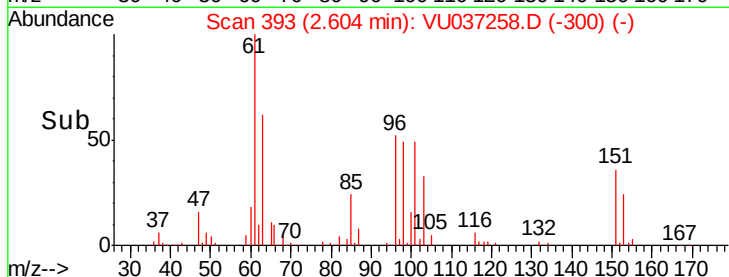
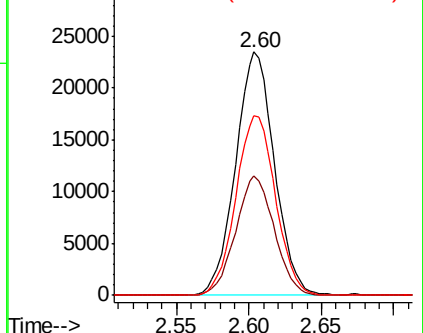
151 75.1 59.8 89.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.857 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

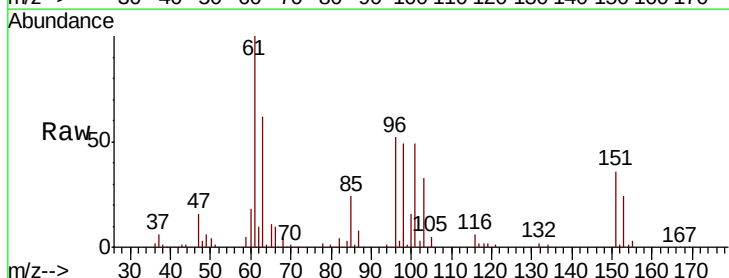
Tgt Ion: 96 Resp: 40462

Ion Ratio Lower Upper

96 100

61 191.2 136.4 253.2

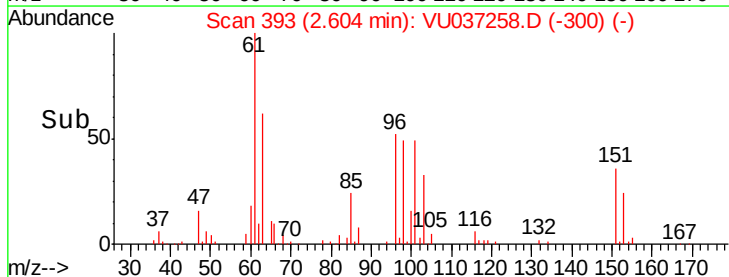
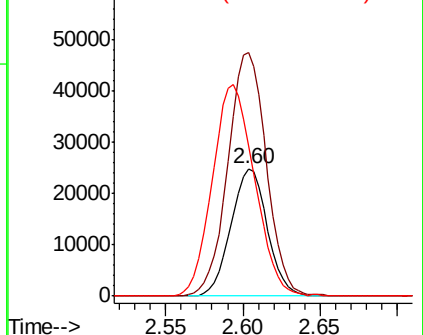
63 117.7 86.2 160.0

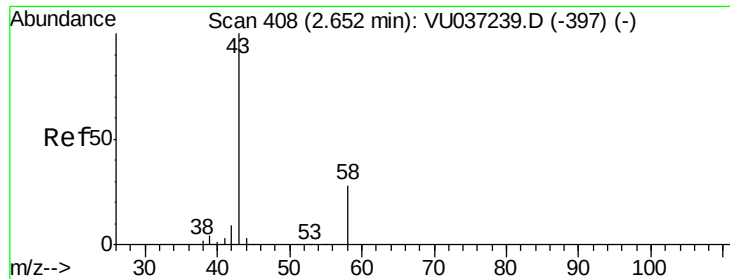


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.801 ug/L

RT: 2.65 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

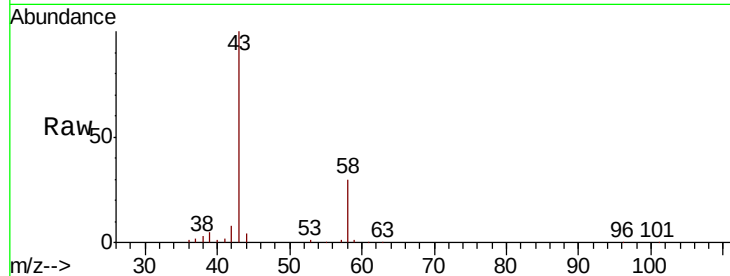
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 73430

Ion Ratio Lower Upper

43 100

58 30.4 0.0 52.2



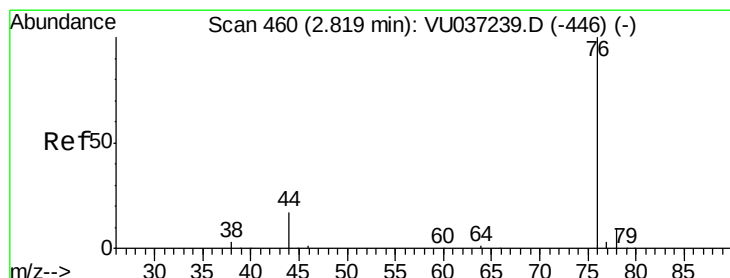
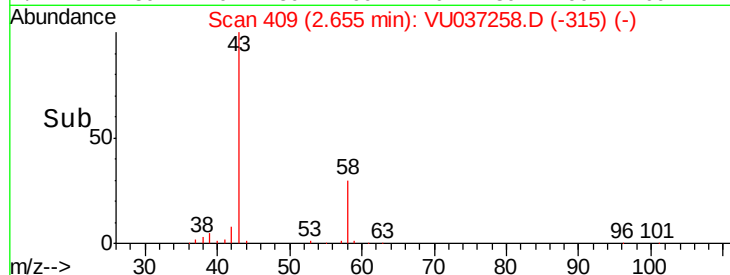
Abundance Ion 43.05 (42.75 to 43.75): VU037239.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU037239.D (-397) (-)

2.65

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 4.721 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037258.D

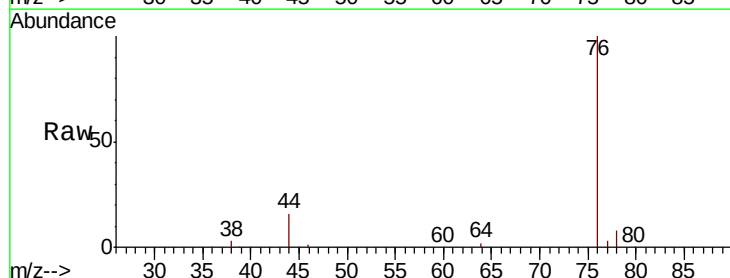
Acq: 13 Mar 2020 21:54

Tgt Ion: 76 Resp: 130468

Ion Ratio Lower Upper

76 100

78 8.3 6.9 10.3



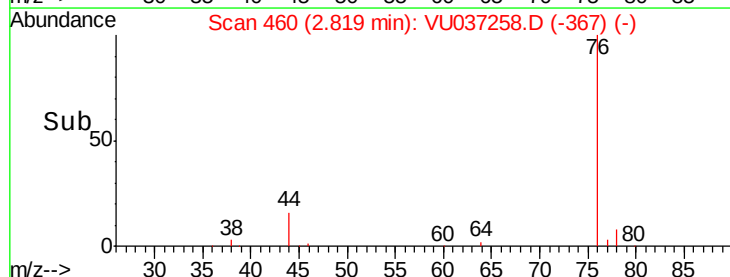
Abundance Ion 76.05 (75.75 to 76.75): VU037239.D (-446) (-)

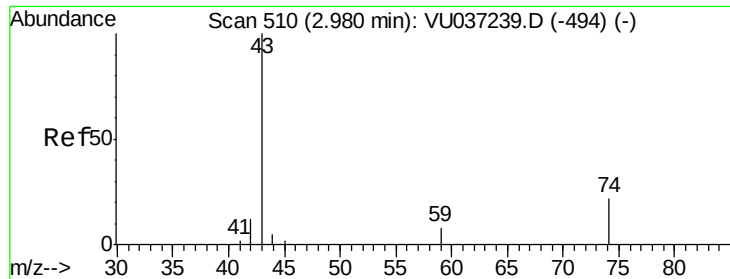
Ion 78.00 (77.70 to 78.70): VU037239.D (-446) (-)

2.82

Time-->

2.80 2.90

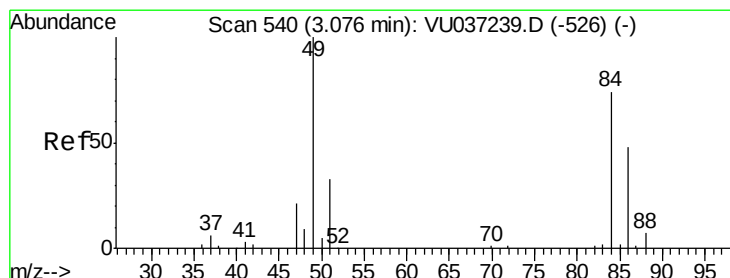
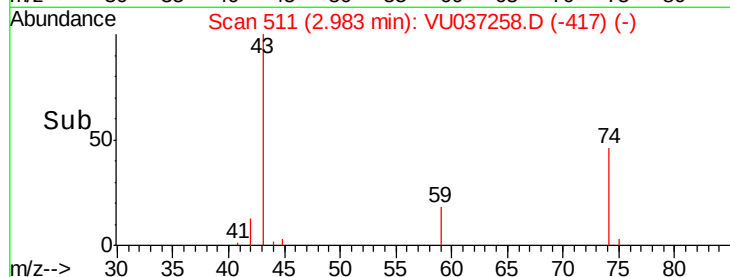
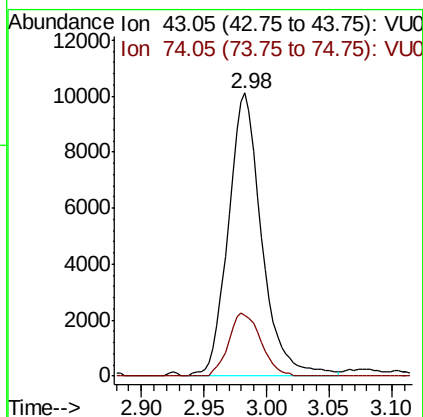
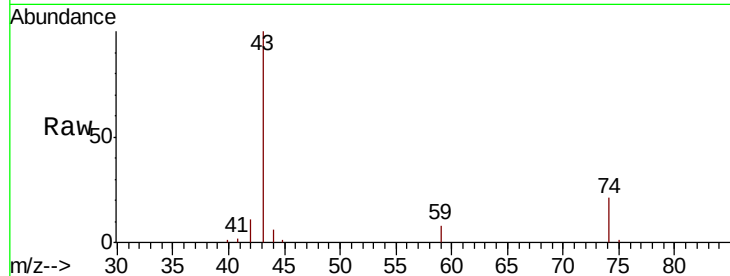




#15
Methvl Acetate
Concen: 4.573 ug/L
RT: 2.98 min Scan# 511
Delta R.T. 0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

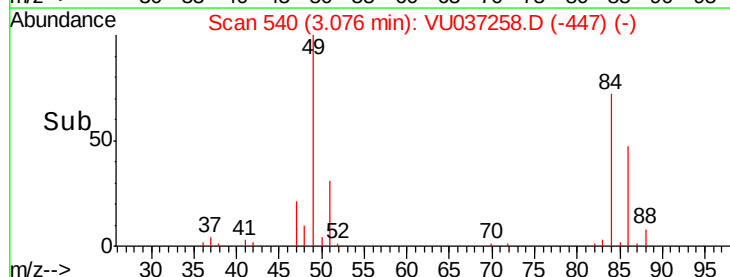
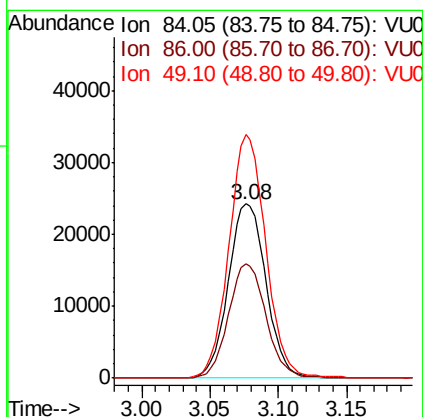
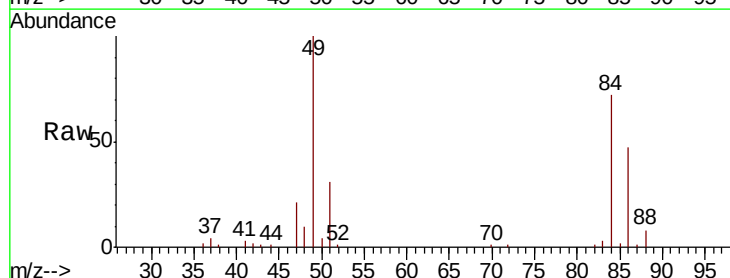
Instrument :
MSVOA_U
ClientSampleId :

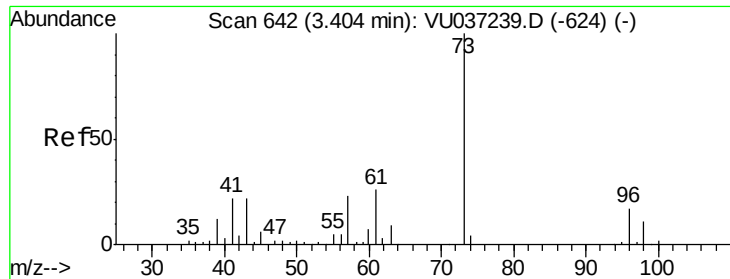
Tot Ion: 43 Resp: 18800
Ion Ratio Lower Upper
43 100
74 21.4 17.1 25.7



#16
Methylene chloride
Concen: 4.661 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Tgt Ion: 84 Resp: 46621
Ion Ratio Lower Upper
84 100
86 65.4 44.3 82.3
49 139.6 95.3 177.1

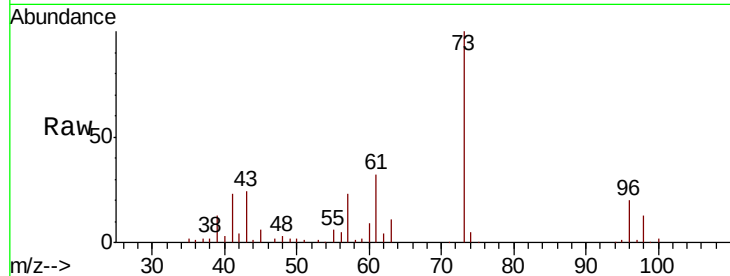




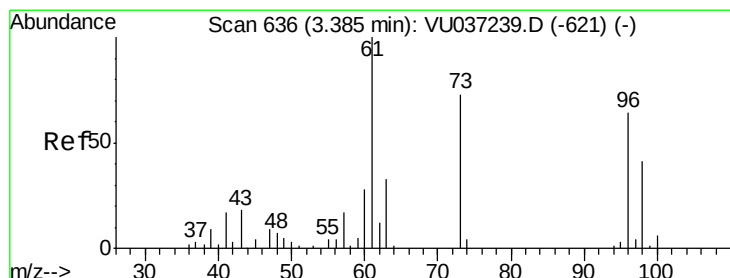
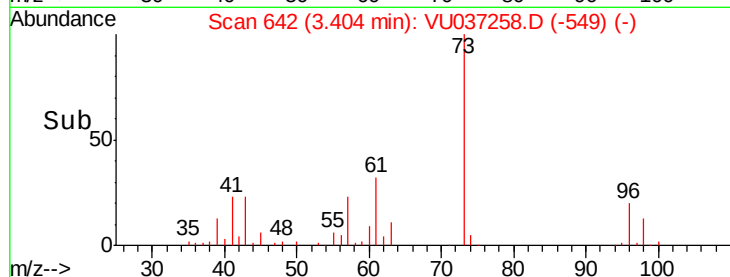
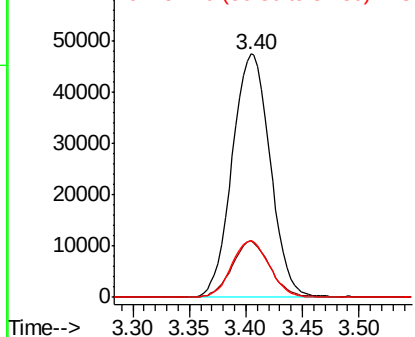
#17
Methyl tert-butyl Ether
Concen: 4.966 ug/L
RT: 3.40 min Scan# 642
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 111128
Ion Ratio Lower Upper
73 100
43 23.2 21.1 31.7
57 23.0 17.9 26.9

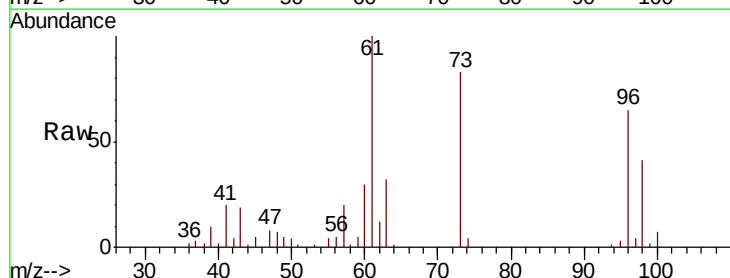


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

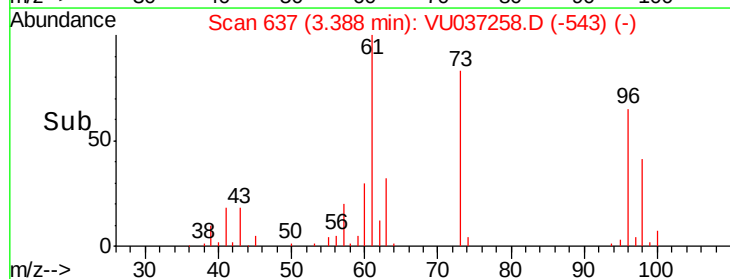
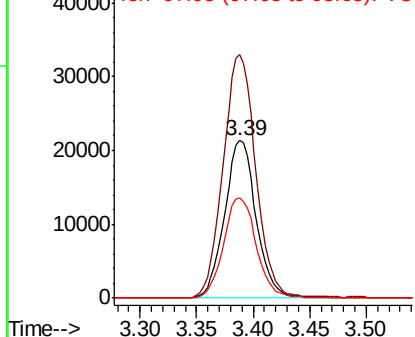


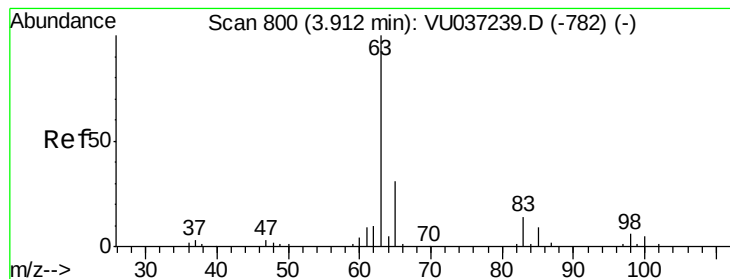
#18
trans-1,2-Dichloroethene
Concen: 4.729 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Tgt Ion: 96 Resp: 41653
Ion Ratio Lower Upper
96 100
61 154.4 107.2 199.2
98 63.4 43.6 81.0



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





#19

1,1-Dichloroethane

Concen: 5.031 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

ClientSampled :

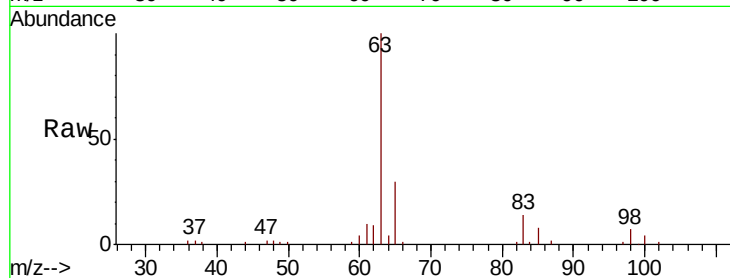
Tot Ion: 63 Resp: 89703

Ion Ratio Lower Upper

63 100

65 30.0 21.3 39.5

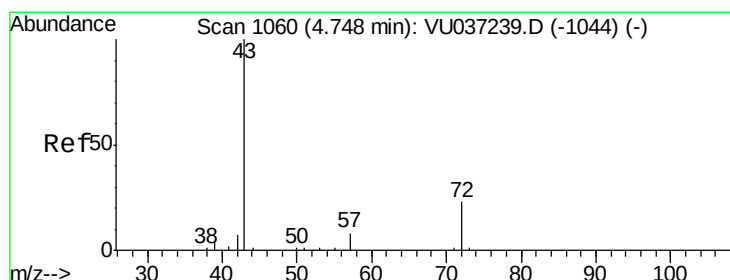
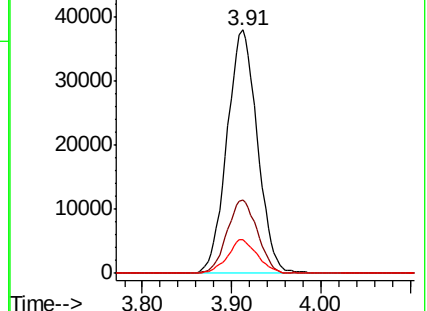
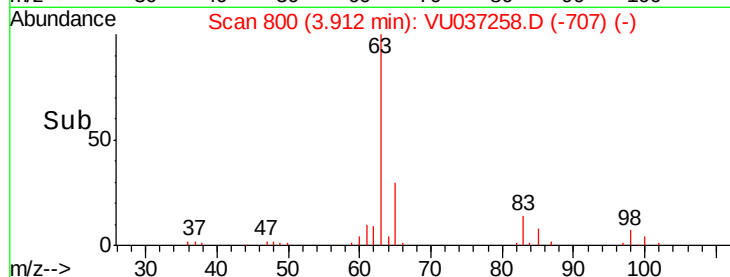
83 13.8 10.0 18.6



Abundance Ion 63.10 (62.80 to 63.80): VU037239.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU037239.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU037239.D (-782) (-)



#21

2-Butanone

Concen: 45.843 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. -0.00 min

Lab File: VU037258.D

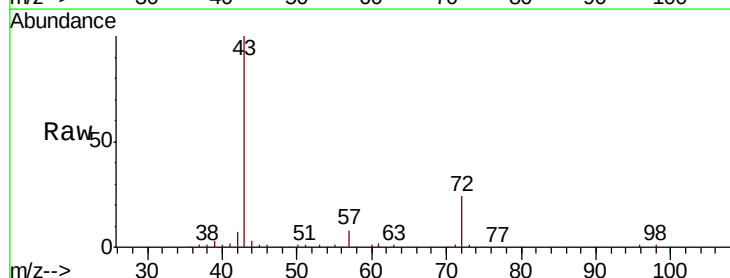
Acq: 13 Mar 2020 21:54

Tgt Ion: 43 Resp: 126766

Ion Ratio Lower Upper

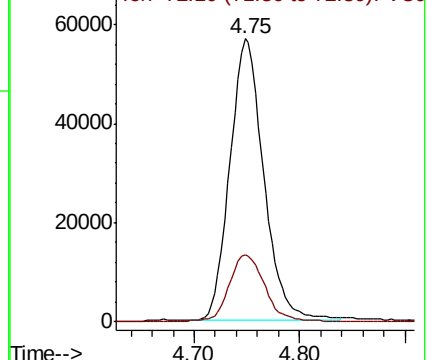
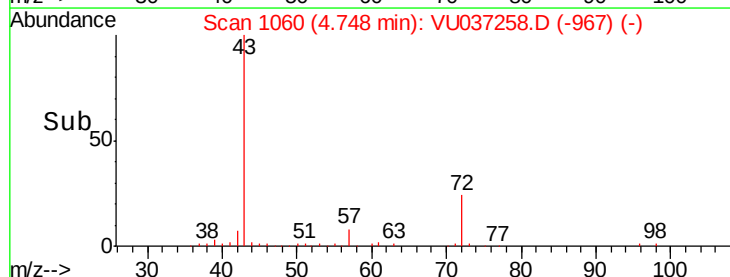
43 100

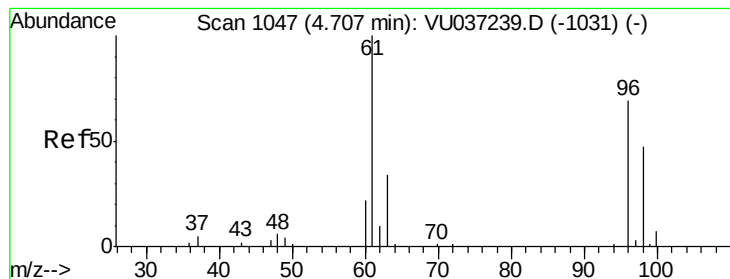
72 24.0 11.6 34.7



Abundance Ion 43.05 (42.75 to 43.75): VU037239.D (-1044) (-)

Ion 72.10 (71.80 to 72.80): VU037239.D (-1044) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.922 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

ClientSampleId :

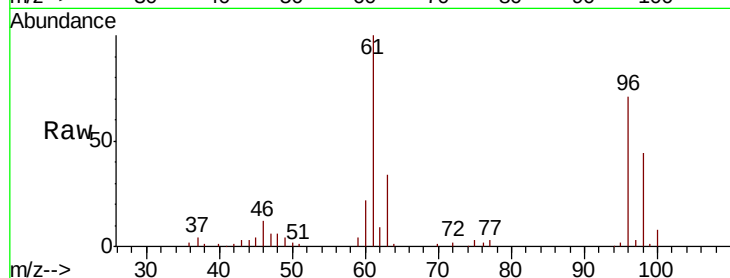
Tot Ion: 96 Resp: 47715

Ion Ratio Lower Upper

96 100

61 140.4 94.1 174.8

68 0.0 0.0 0.0

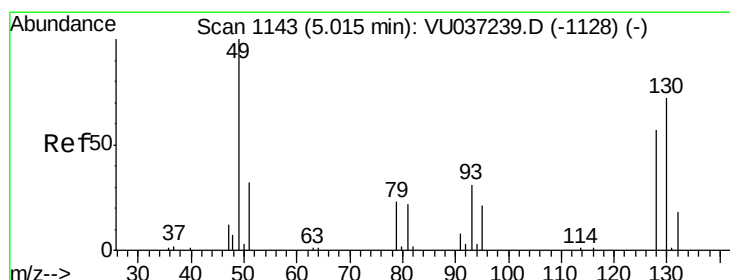
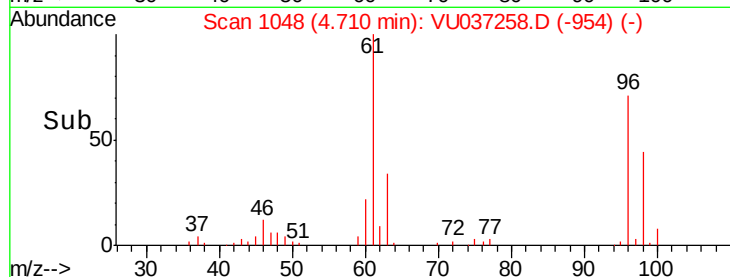
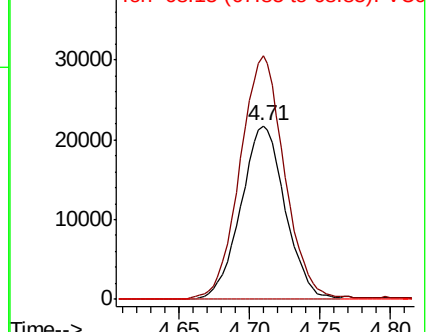


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.026 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Tgt Ion: 128 Resp: 21354

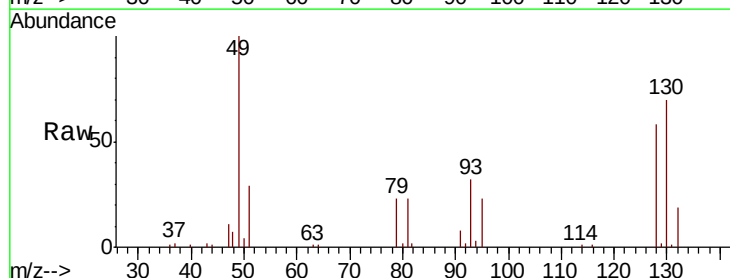
Ion Ratio Lower Upper

128 100

49 173.6 115.7 214.9

130 122.3 83.1 154.3

51 51.0 42.5 63.7



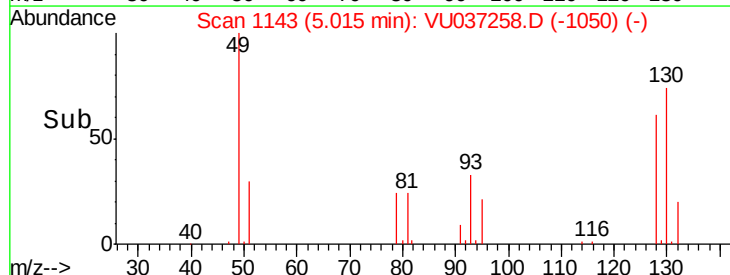
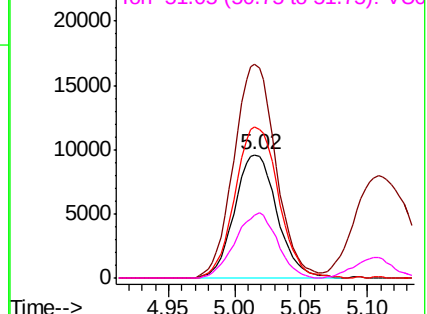
Abundance

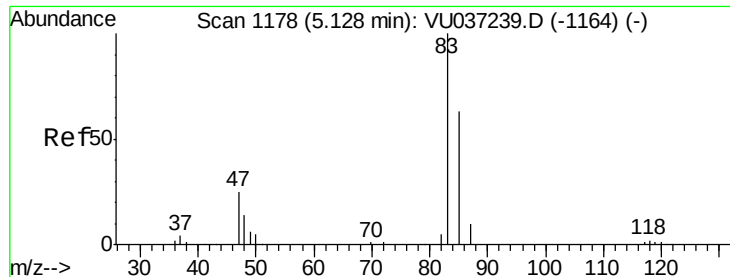
Ion 127.90 (127.60 to 128.60): V

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

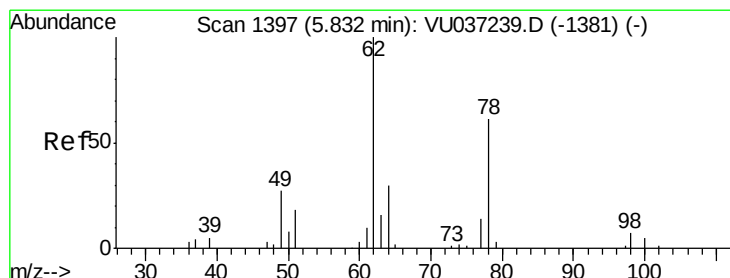
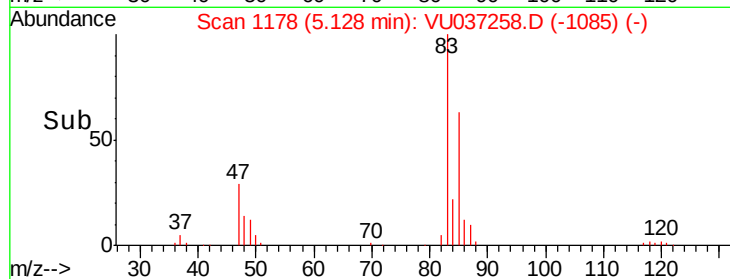
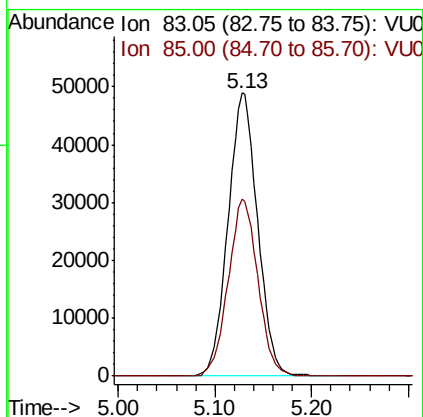
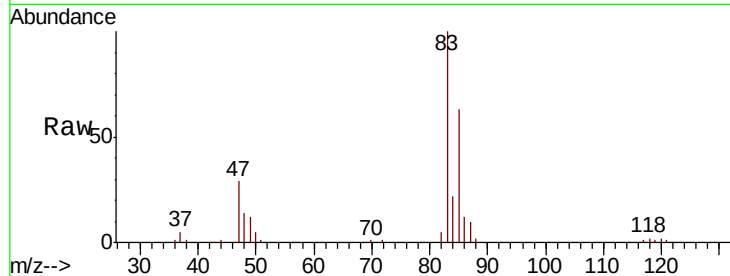




#25
Chloroform
Concen: 5.344 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

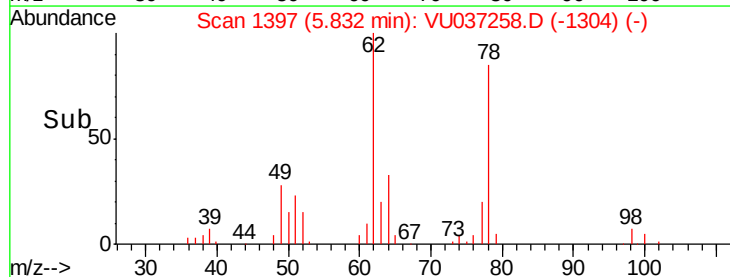
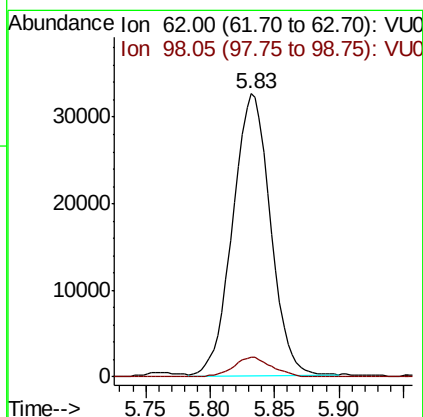
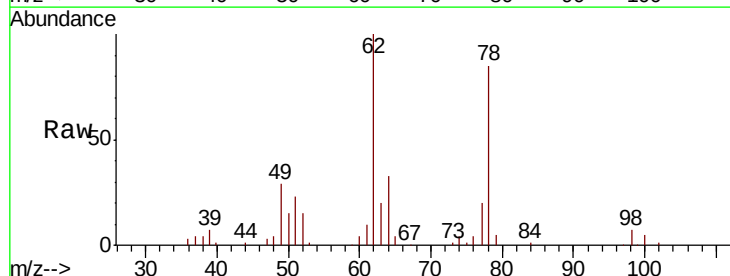
Instrument :
MSVOA_U
ClientSampled :

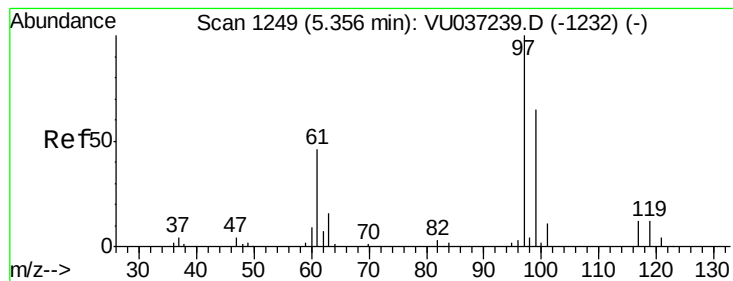
Tot Ion: 83 Resp: 103949
Ion Ratio Lower Upper
83 100
85 62.6 45.3 84.1



#27
1,2-Dichloroethane
Concen: 4.888 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Tgt Ion: 62 Resp: 66268
Ion Ratio Lower Upper
62 100
98 7.0 5.9 8.9





#29

1,1,1-Trichloroethane

Concen: 5.056 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

ClientSampleId :

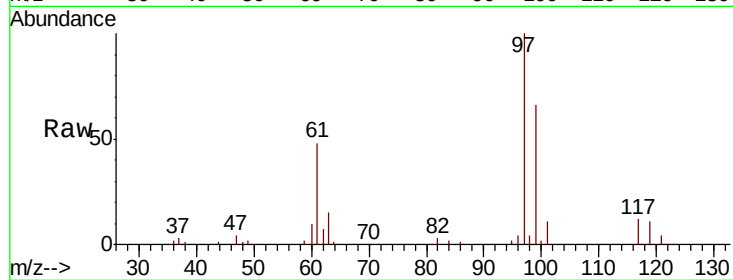
Tot Ion: 97 Resp: 83544

Ion Ratio Lower Upper

97 100

99 66.8 52.4 78.6

61 48.4 40.6 61.0

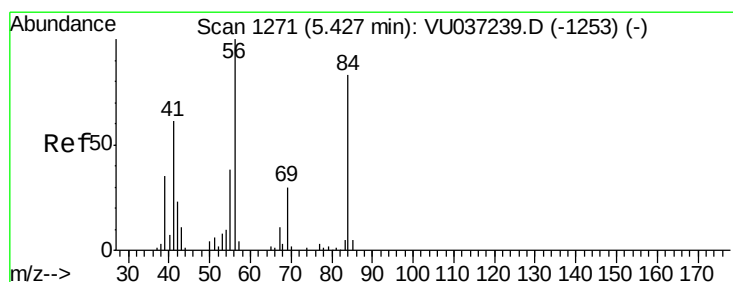
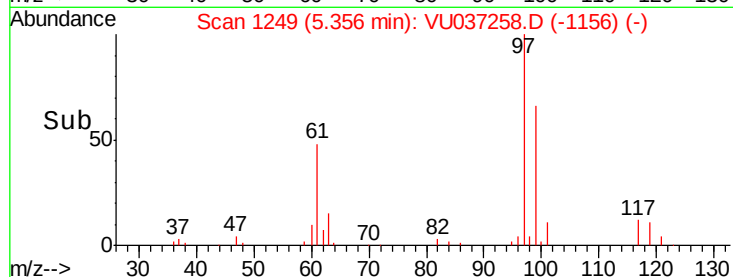
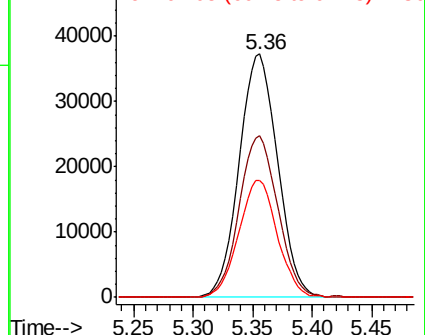


Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.895 ug/L

RT: 5.43 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

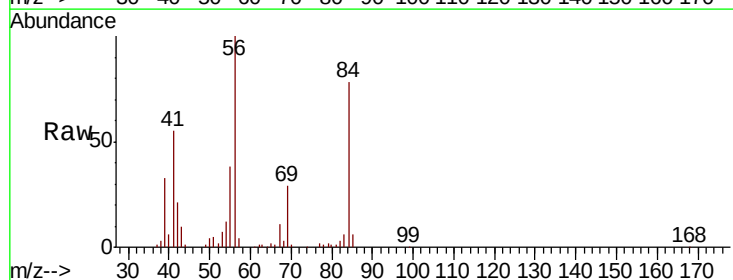
Tgt Ion: 56 Resp: 78235

Ion Ratio Lower Upper

56 100

69 28.5 25.0 37.6

84 79.5 65.4 98.2

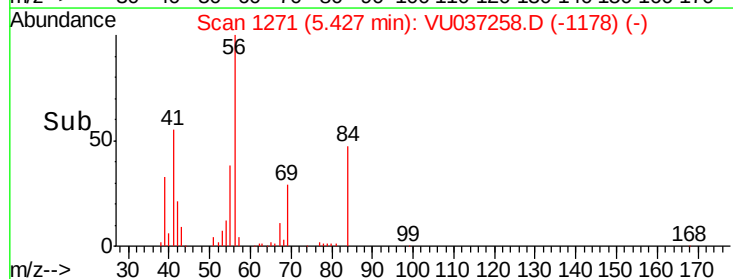
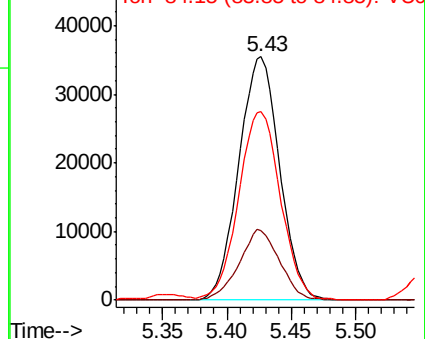


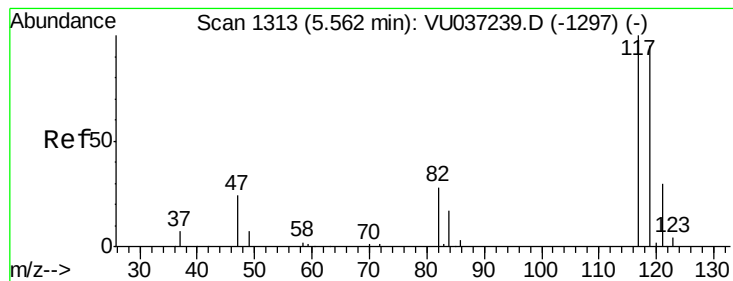
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.249 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

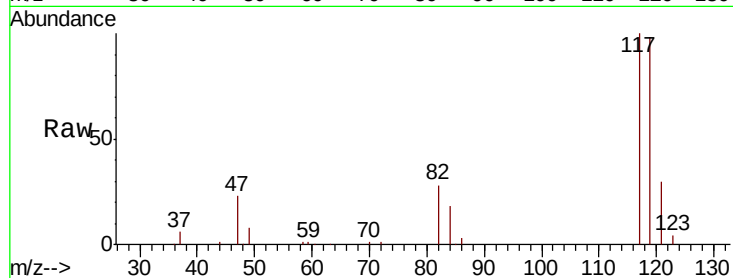
ClientSampleId :

Tot Ion:117 Resp: 75136

Ion Ratio Lower Upper

117 100

119 96.9 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.56

40000

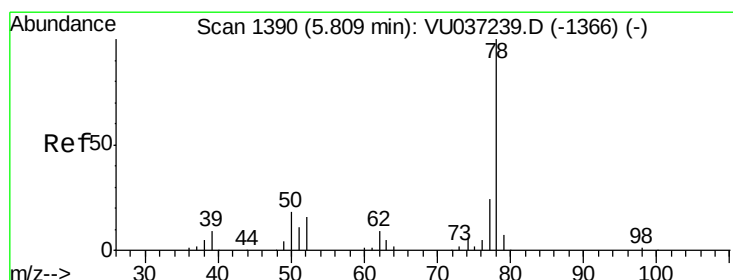
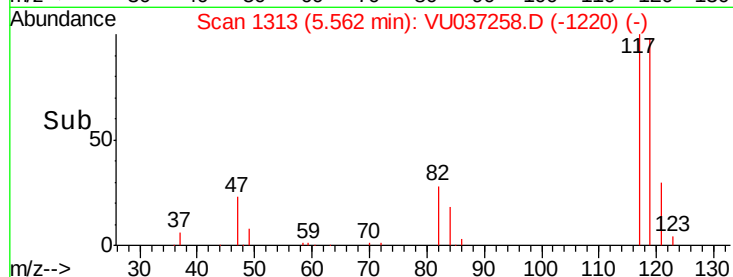
30000

20000

10000

0

Time--> 5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 4.920 ug/L

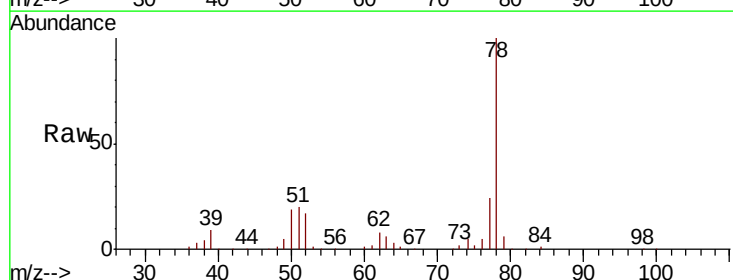
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Tgt Ion: 78 Resp: 187666



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.81

100000

80000

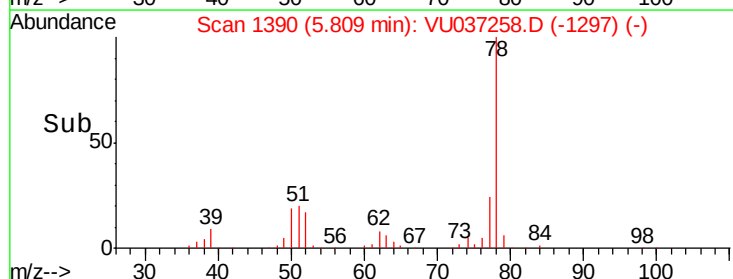
60000

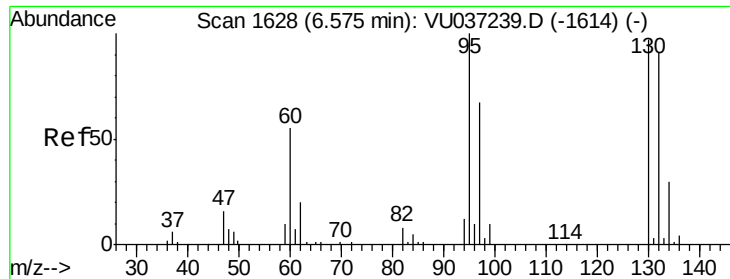
40000

20000

0

Time--> 5.70 5.80 5.90

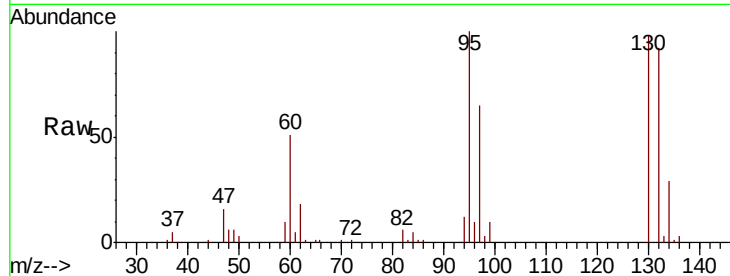




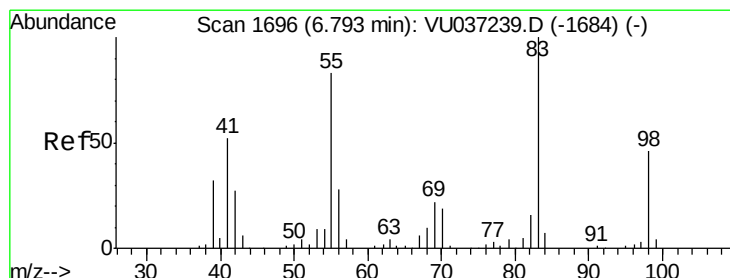
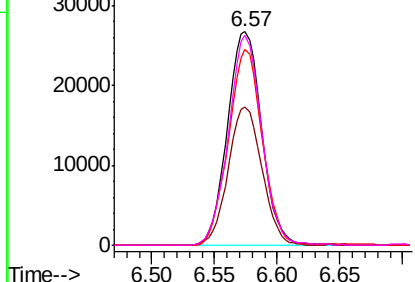
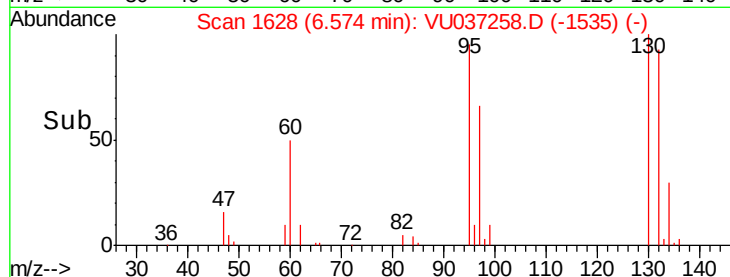
#34
 Trichloroethene
 Concen: 4.916 ug/L
 RT: 6.57 min Scan# 1628
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 50636
 Ion Ratio Lower Upper
 95 100
 97 64.9 45.4 84.4
 132 91.6 63.7 118.3
 130 98.1 64.8 120.4

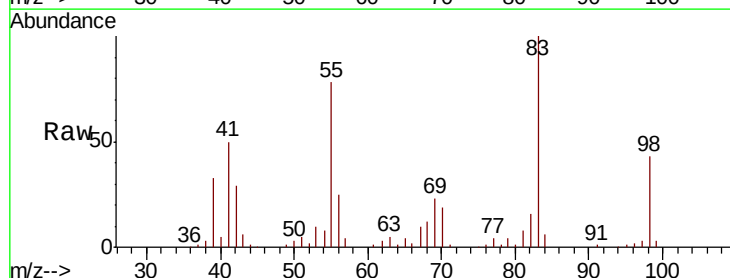


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

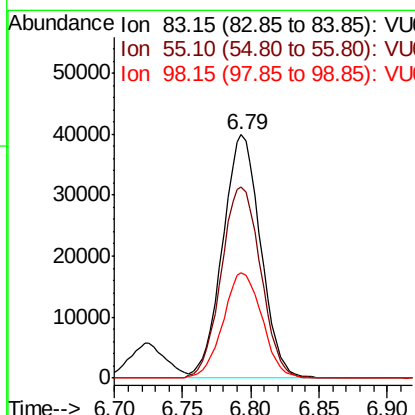
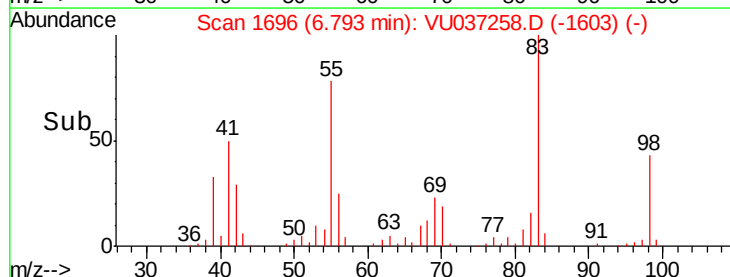


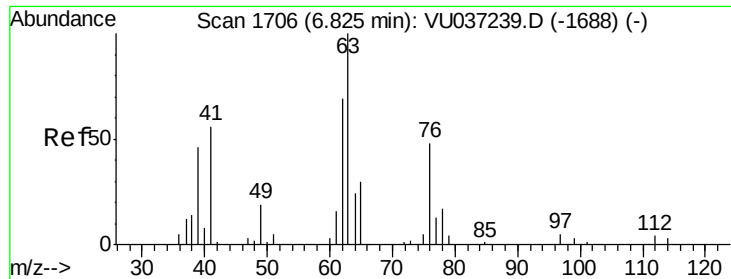
#35
 Methylcyclohexane
 Concen: 4.842 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Tgt Ion: 83 Resp: 77102
 Ion Ratio Lower Upper
 83 100
 55 81.4 68.1 102.1
 98 44.3 37.0 55.4



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

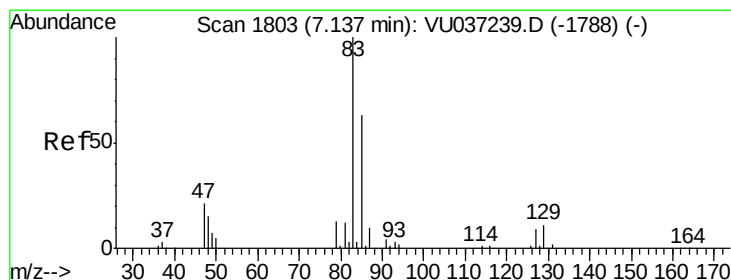
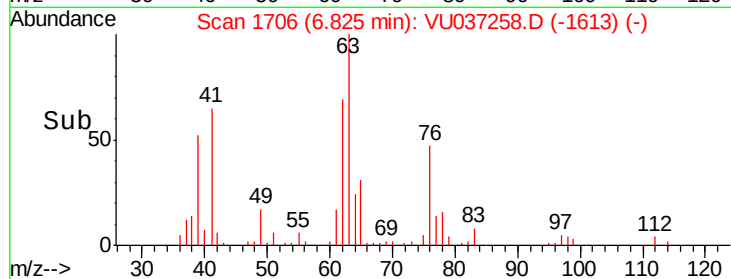
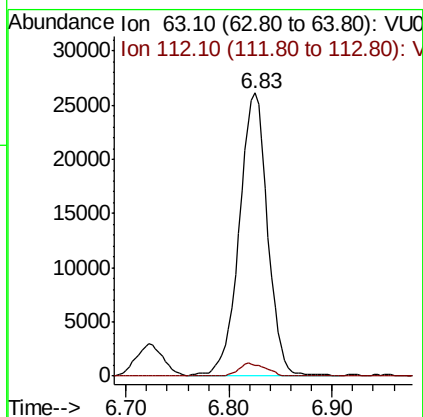
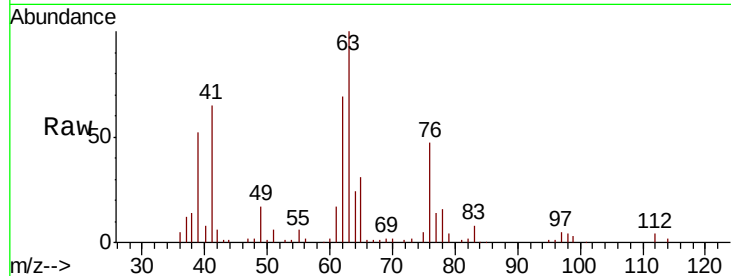




#37
 1,2-Dichloropropane
 Concen: 4.986 ug/L
 RT: 6.83 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

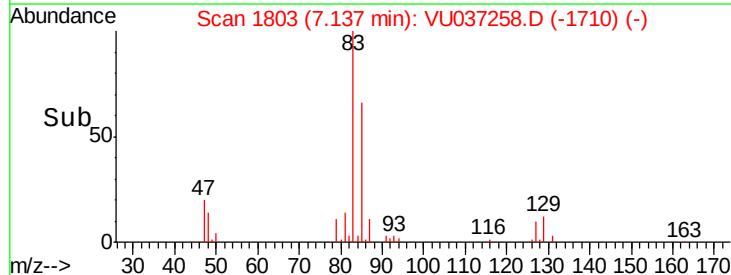
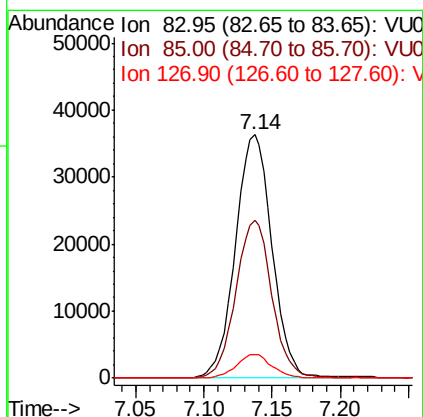
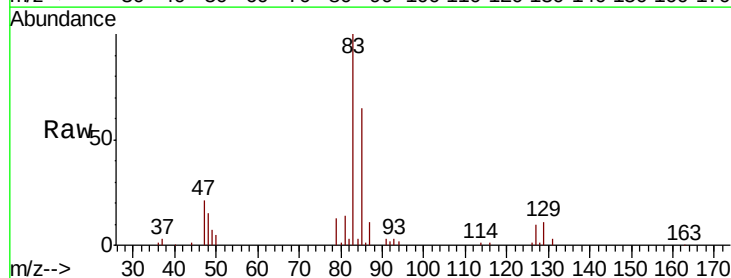
Instrument :
 MSVOA_U
 ClientSampled :

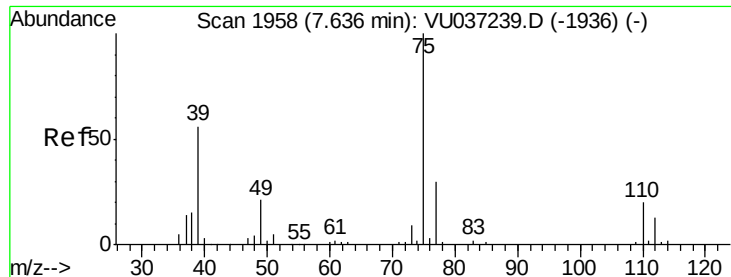
Tot Ion: 63 Resp: 50048
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.0 4.6



#38
 Bromodichloromethane
 Concen: 5.071 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Tgt Ion: 83 Resp: 67527
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.1 83.7
 127 9.9 6.7 10.1

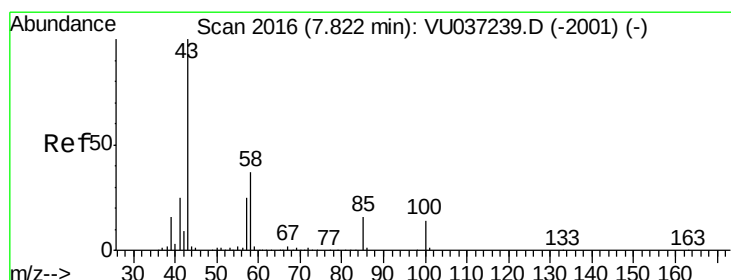
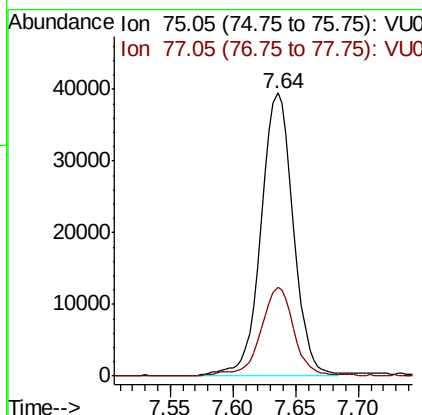
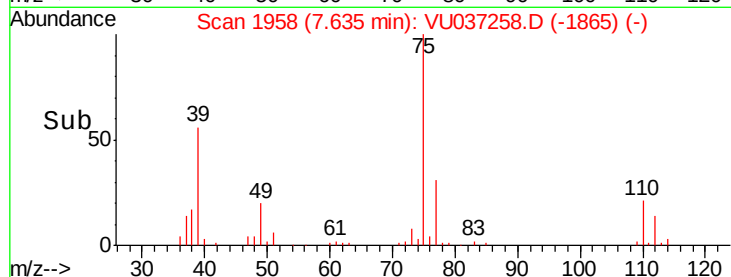
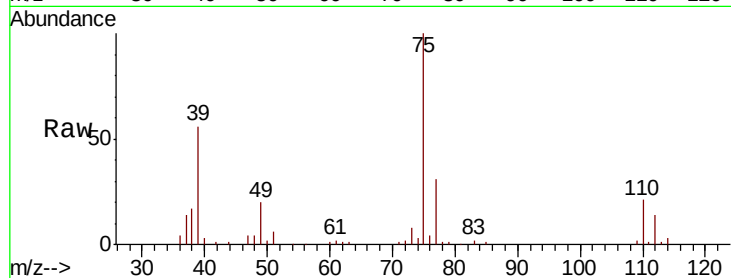




#39
 cis-1,3-Dichloropropene
 Concen: 4.936 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

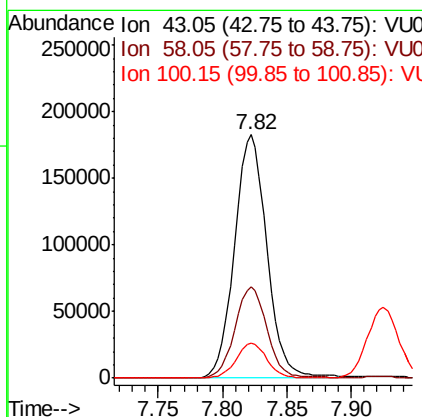
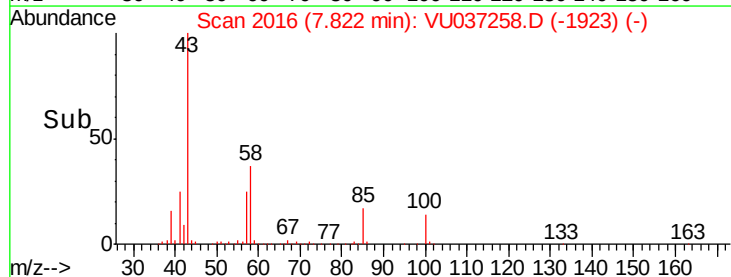
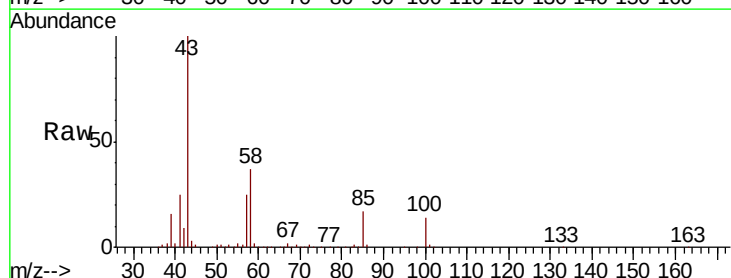
Instrument :
 MSVOA_U
 ClientSampleId :

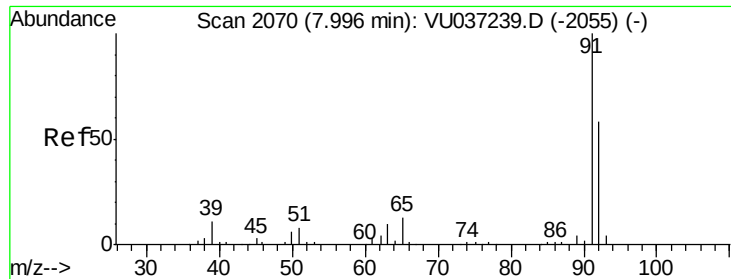
Tot Ion: 75 Resp: 71122
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.1 39.1



#40
 4-Methyl-2-pentanone
 Concen: 44.957 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Tgt Ion: 43 Resp: 319320
 Ion Ratio Lower Upper
 43 100
 58 37.4 28.6 42.8
 100 13.8 10.2 15.2





#42

Toluene

Concen: 5.046 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

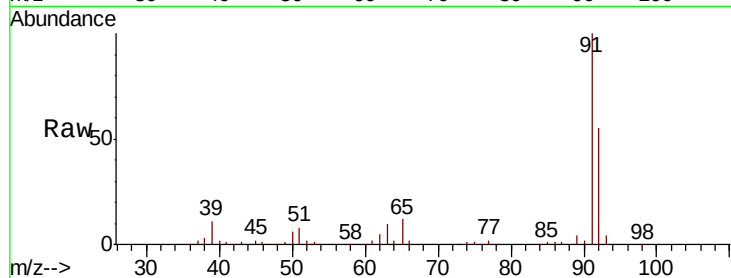
ClientSampled :

Tot Ion: 91 Resp: 206630

Ion Ratio Lower Upper

91 100

92 55.5 41.0 76.2



Abundance Ion 91.15 (90.85 to 91.85): VU037239.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU037239.D (-2055) (-)

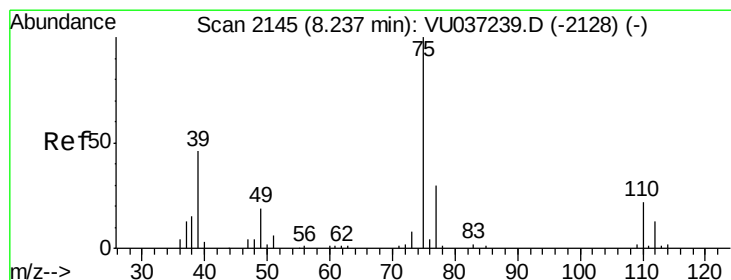
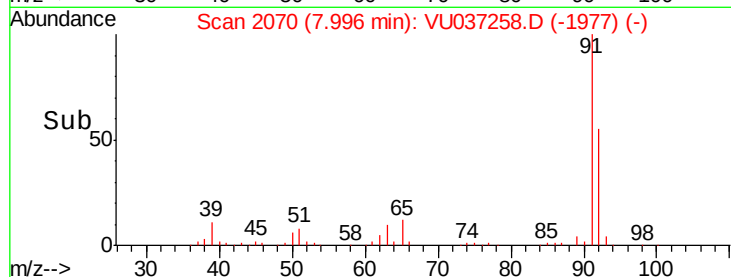
8.00

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.011 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU037258.D

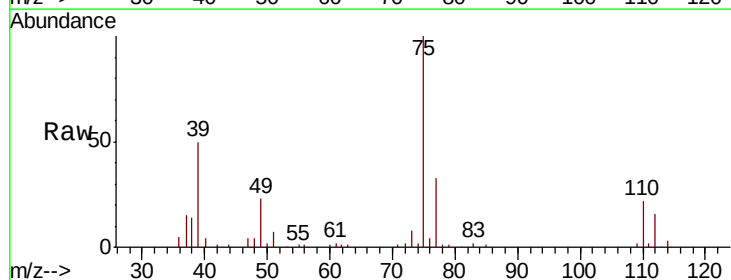
Acq: 13 Mar 2020 21:54

Tgt Ion: 75 Resp: 60226

Ion Ratio Lower Upper

75 100

77 32.6 21.2 39.4



Abundance Ion 75.05 (74.75 to 75.75): VU037239.D (-2128) (-)

Ion 77.05 (76.75 to 77.75): VU037239.D (-2128) (-)

8.24

40000

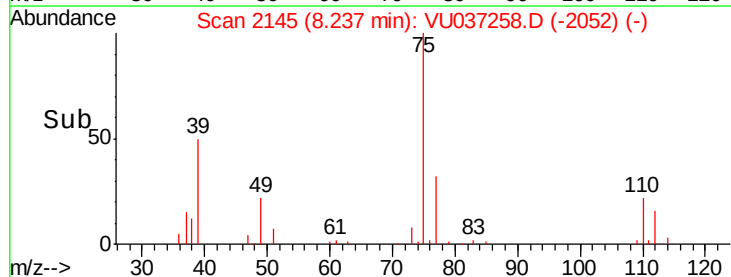
30000

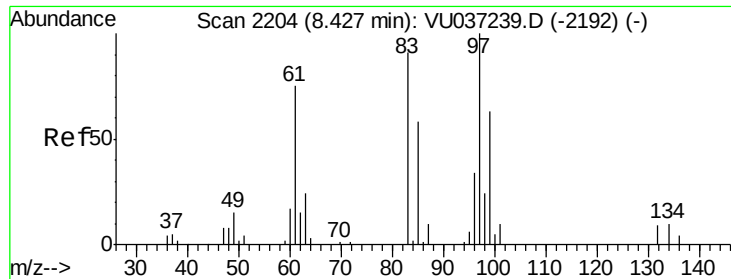
20000

10000

0

Time-->

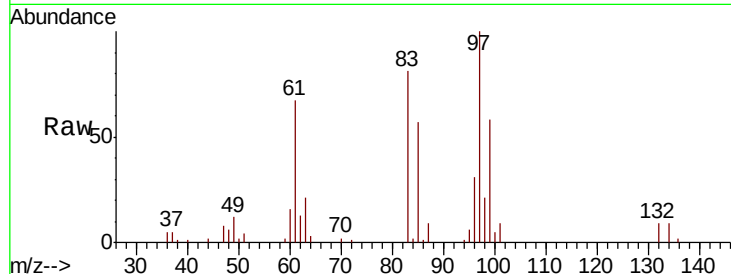




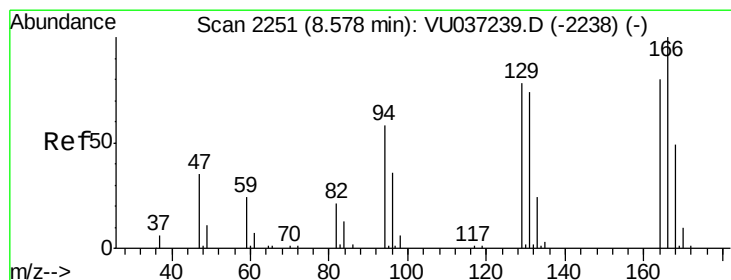
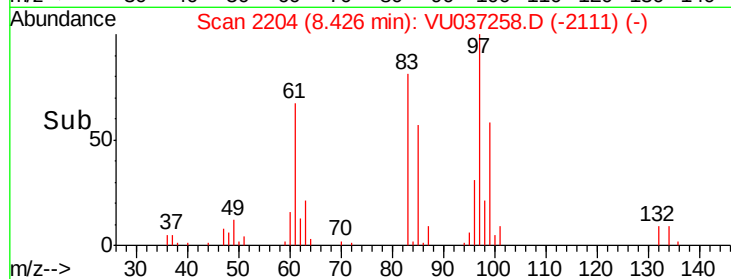
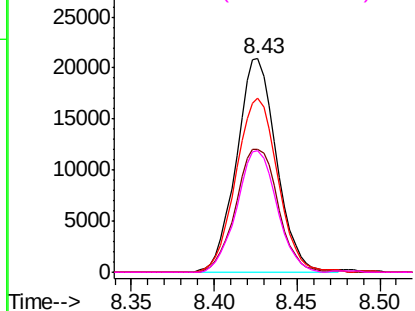
#45
 1,1,2-Trichloroethane
 Concen: 4.852 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	35138
Ion	Ratio	Lower	Upper
97	100		
99	57.7	43.6	81.0
83	81.3	60.1	111.7
85	56.7	37.8	70.2

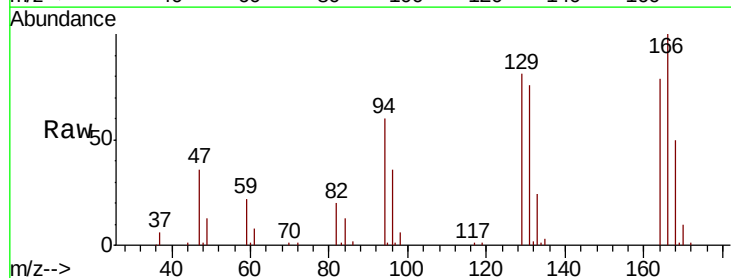


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

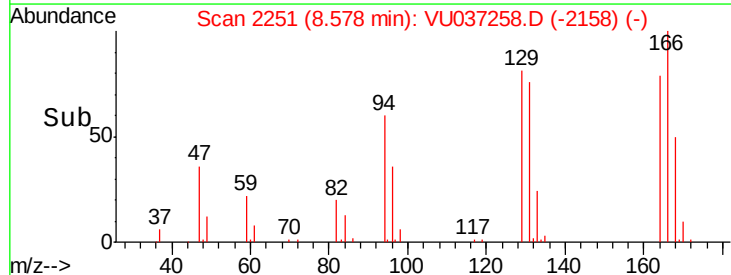
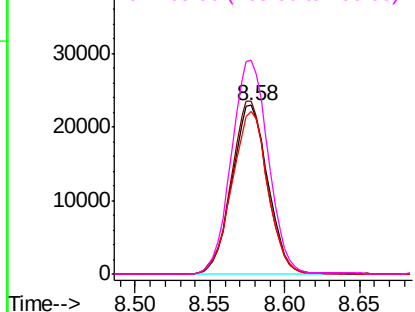


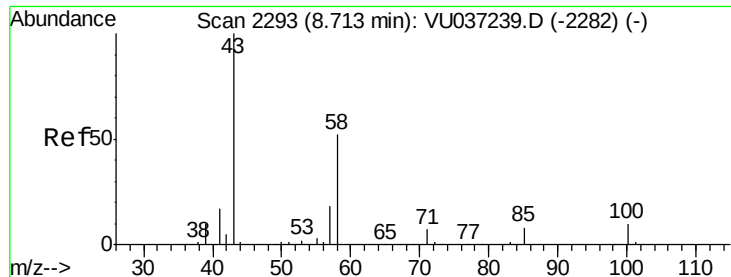
#47
 Tetrachloroethene
 Concen: 4.817 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Tgt Ion:	164	Resp:	38582
Ion	Ratio	Lower	Upper
164	100		
129	102.3	69.8	129.6
131	96.8	66.1	122.8
166	126.7	88.1	163.5



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

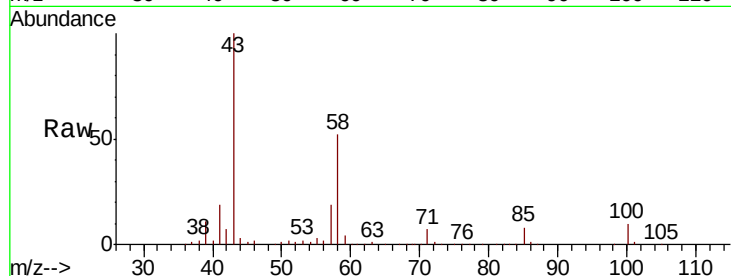




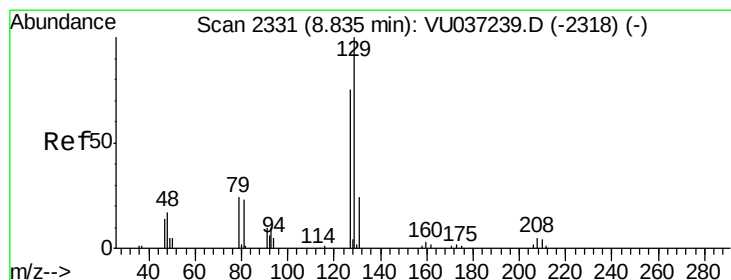
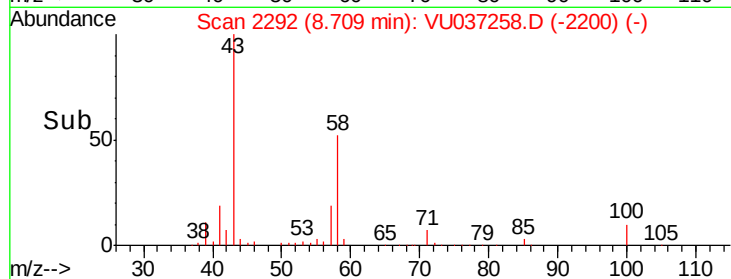
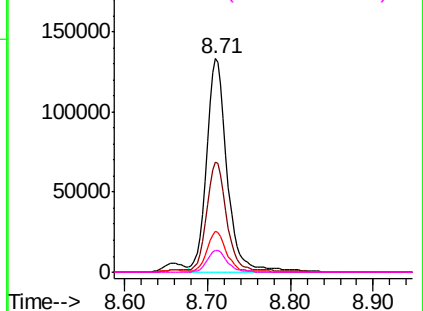
#48
2-Hexanone
Concen: 47.185 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	233663
Ion	Ratio	Lower	Upper
43	100		
58	49.4	38.6	58.0
57	18.1	13.6	20.4
100	9.9	7.4	11.2

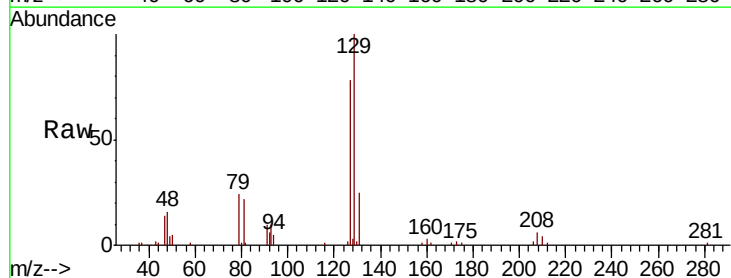


Abundance Ion 43.05 (42.75 to 43.75): VU037239.D (-2282) (-)
Ion 58.05 (57.75 to 58.75): VU037239.D (-2282) (-)
Ion 57.20 (56.90 to 57.90): VU037239.D (-2282) (-)
Ion 100.15 (99.85 to 100.85): VU037239.D (-2282) (-)

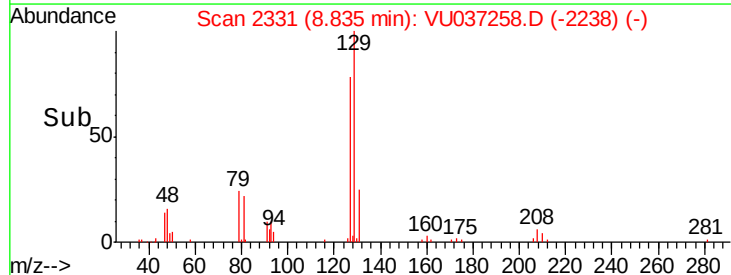
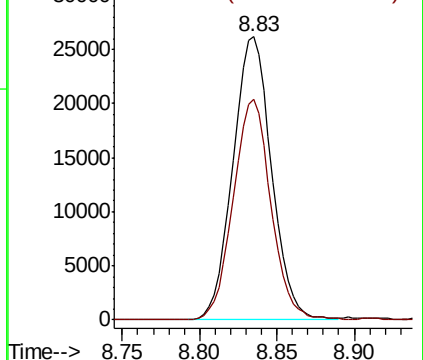


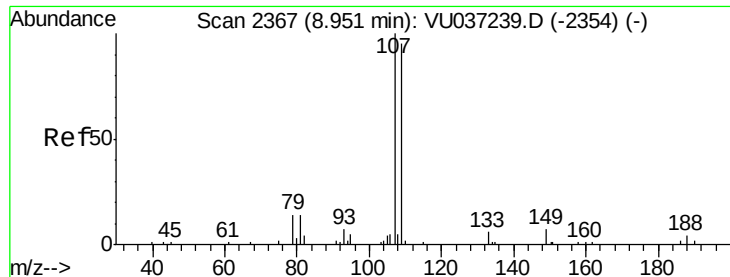
#49
Dibromochloromethane
Concen: 5.204 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Tgt Ion:	129	Resp:	45387
Ion	Ratio	Lower	Upper
129	100		
127	78.1	54.9	102.1



Abundance Ion 128.95 (128.65 to 129.65): VU037239.D (-2318) (-)
Ion 126.90 (126.60 to 127.60): VU037239.D (-2318) (-)

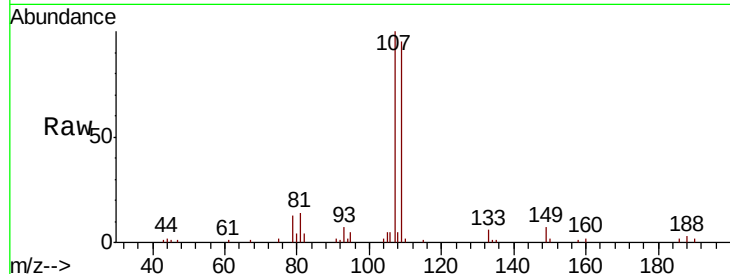




#50
 1,2-Dibromoethane
 Concen: 4.825 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.1	68.2	126.6
188	3.0	2.0	3.0

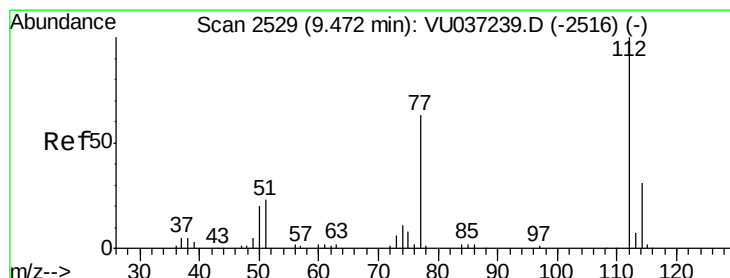
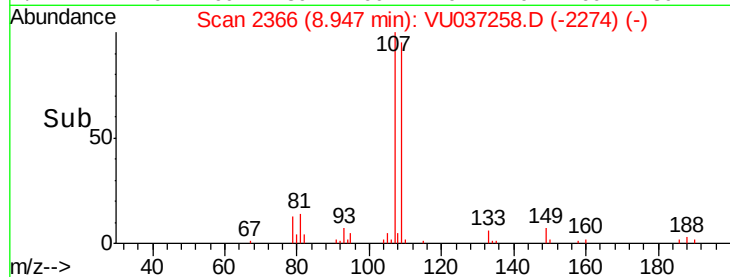
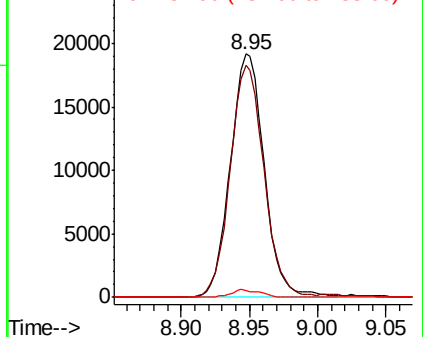


Abundance

Ion 106.95 (106.65 to 107.65): V

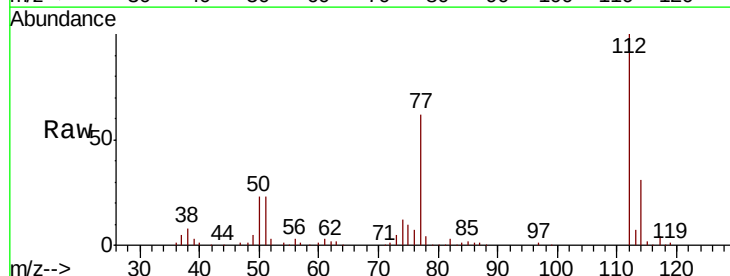
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
 Chlorobenzene
 Concen: 4.886 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.1	22.0	40.8
77	62.1	49.4	74.2

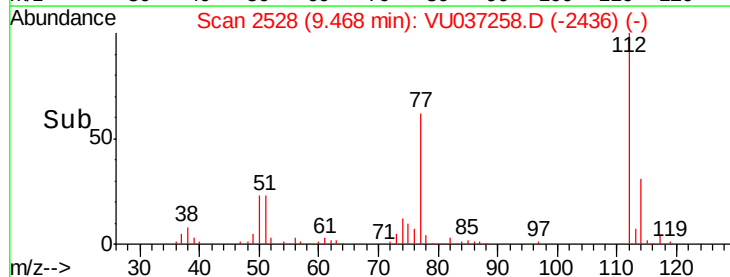
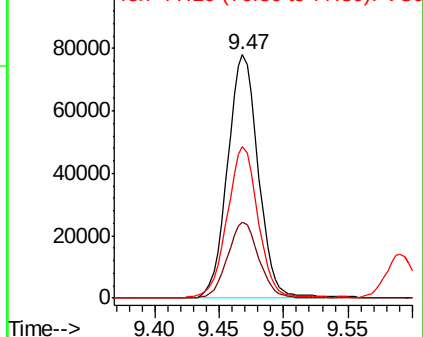


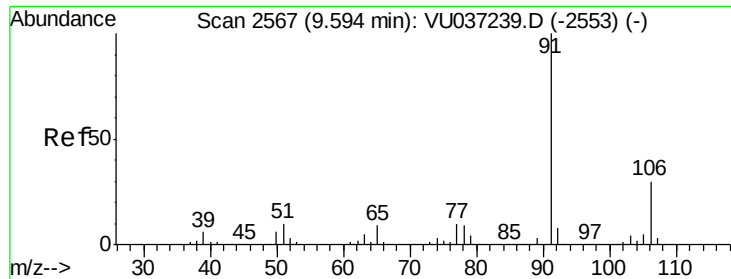
Abundance

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): VU

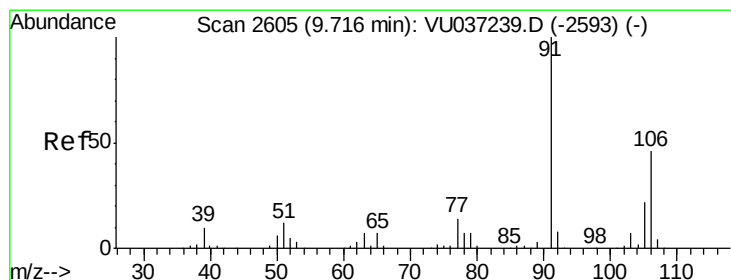
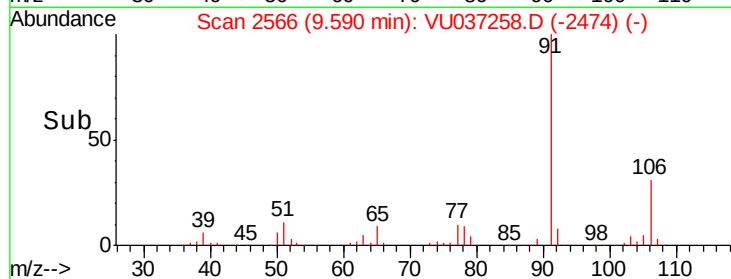
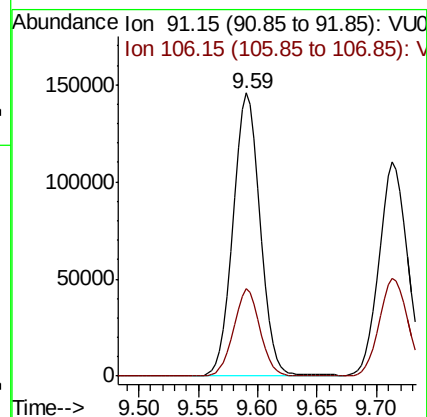
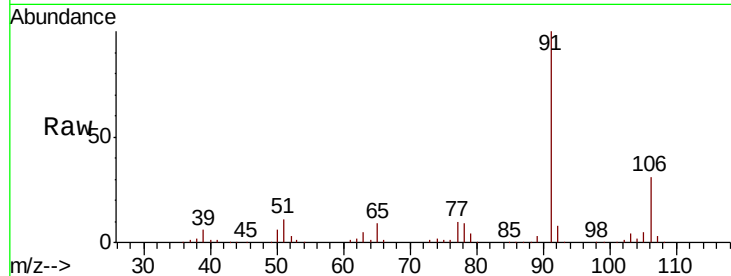




#52
Ethylbenzene
Concen: 5.092 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

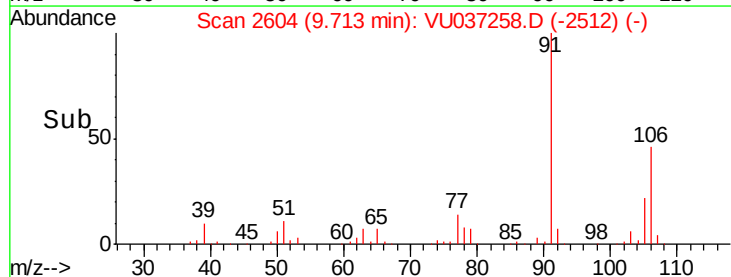
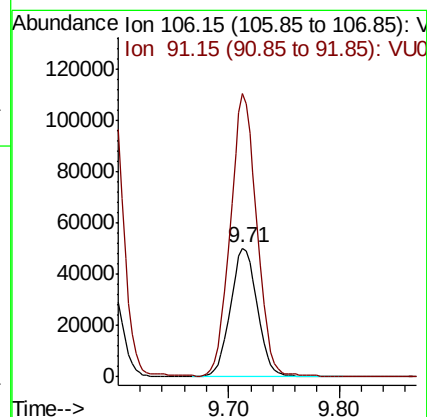
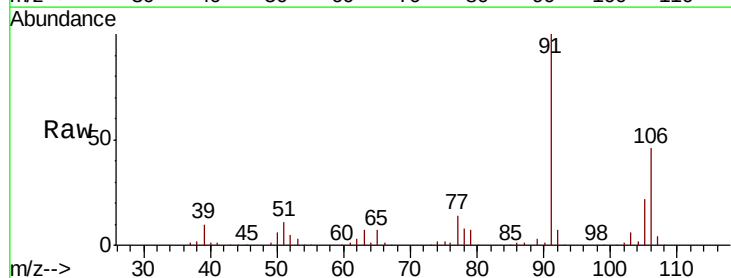
Instrument :
MSVOA_U
ClientSampleId :

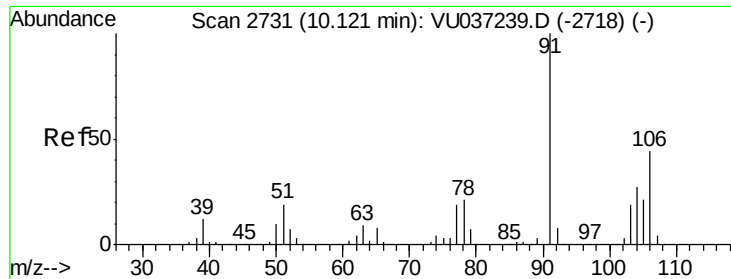
Tot Ion: 91 Resp: 230554
Ion Ratio Lower Upper
91 100
106 30.9 20.4 37.8



#53
m,p-Xylene
Concen: 5.232 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Tgt Ion: 106 Resp: 85165
Ion Ratio Lower Upper
106 100
91 219.6 150.4 279.4

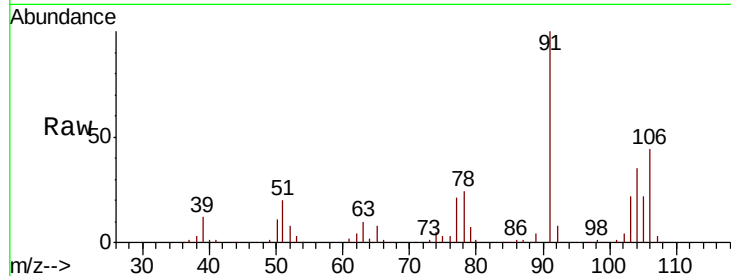




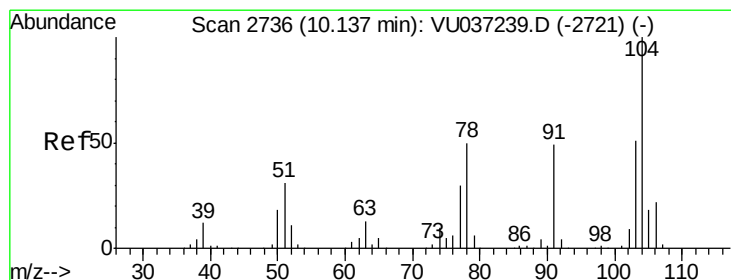
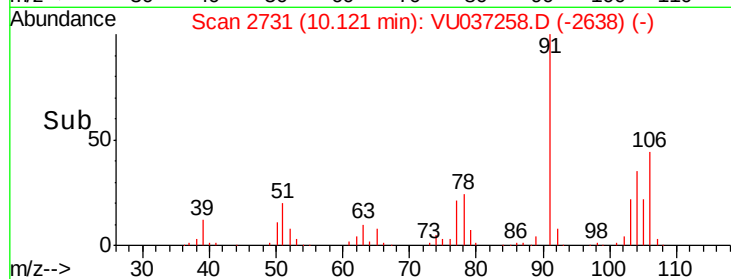
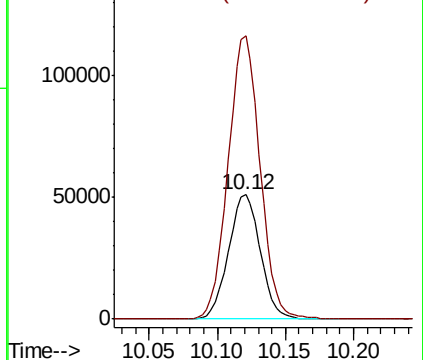
#54
o-Xylene
Concen: 5.200 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 82528
Ion Ratio Lower Upper
106 100
91 227.7 160.6 298.2

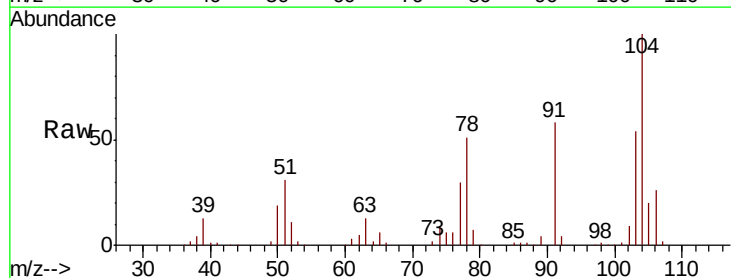


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

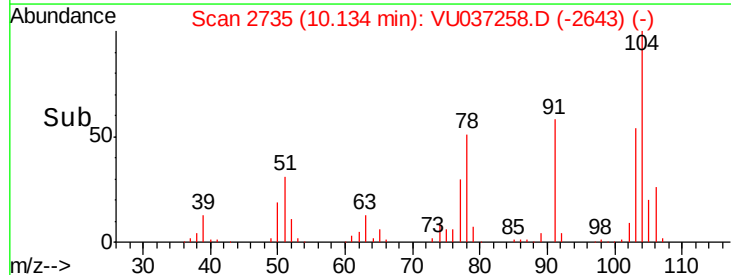
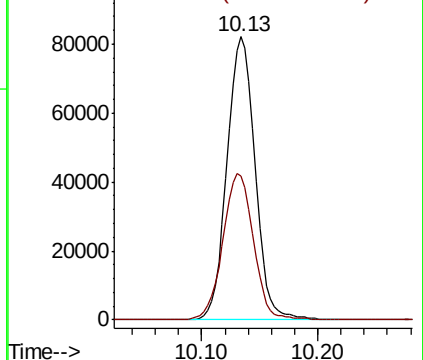


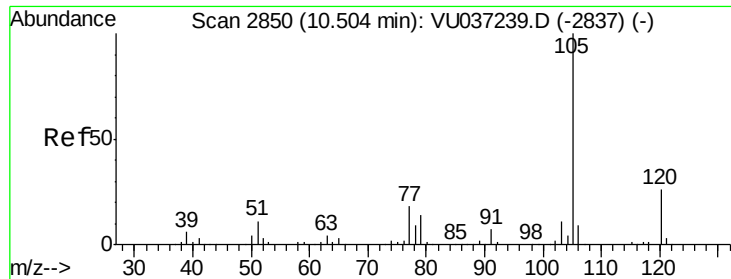
#55
Styrene
Concen: 5.268 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VU037258.D
Acq: 13 Mar 2020 21:54

Tgt Ion:104 Resp: 137107
Ion Ratio Lower Upper
104 100
78 51.0 36.2 67.2



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





#56

Isopropylbenzene

Concen: 5.306 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

ClientSampleId :

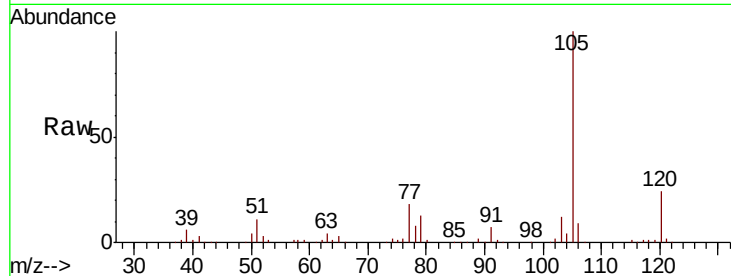
Tot Ion:105 Resp: 225988

Ion Ratio Lower Upper

105 100

120 24.6 20.5 30.7

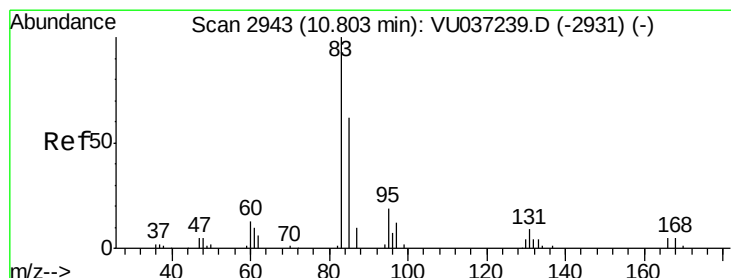
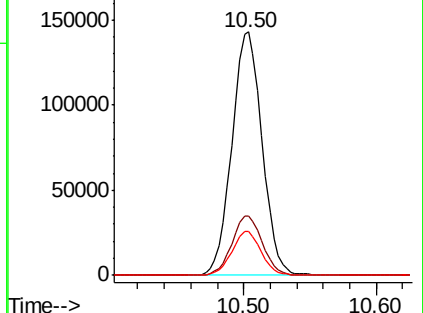
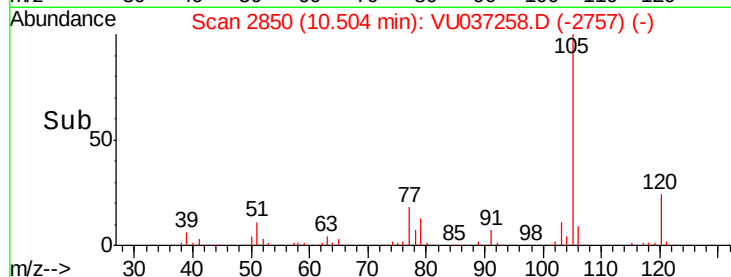
77 17.6 14.2 21.4



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: 5.009 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

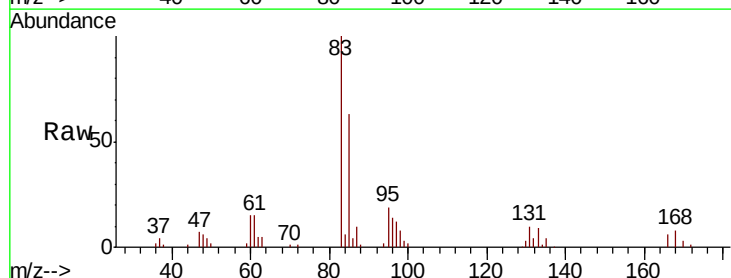
Tgt Ion: 83 Resp: 44797

Ion Ratio Lower Upper

83 100

85 62.8 43.0 80.0

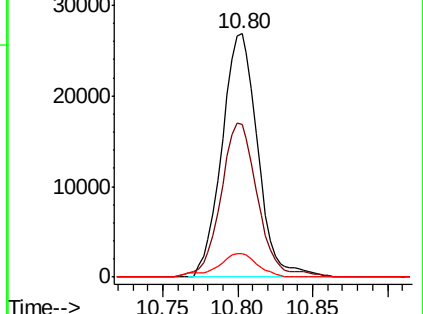
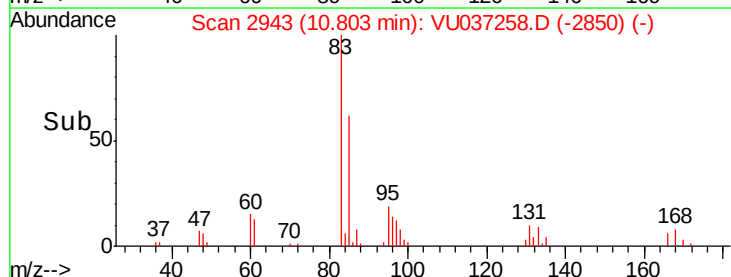
131 9.6 8.2 12.2

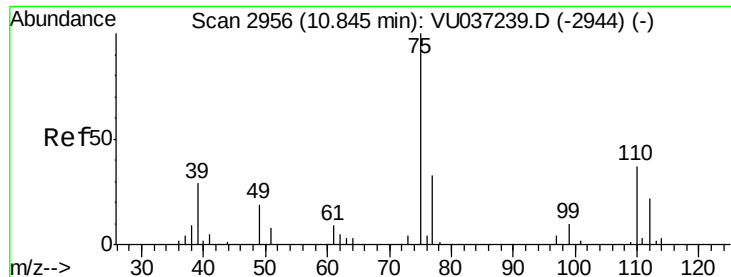


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.617 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

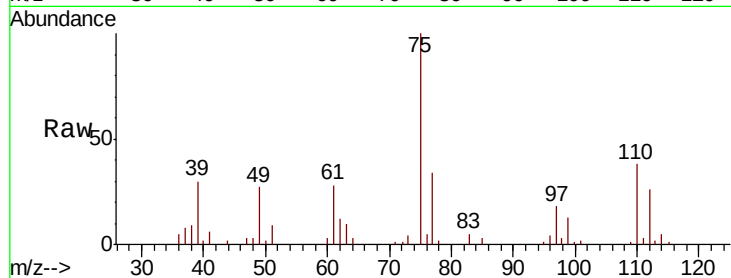
ClientSampleId :

Tot Ion: 75 Resp: 33164

Ion Ratio Lower Upper

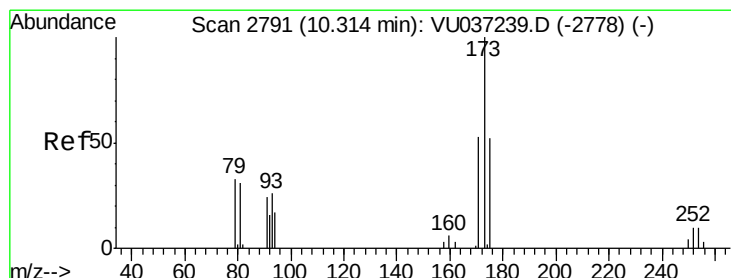
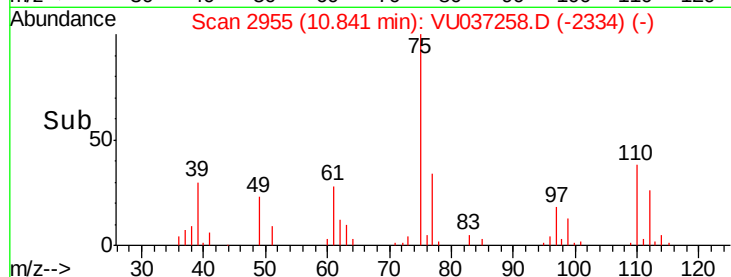
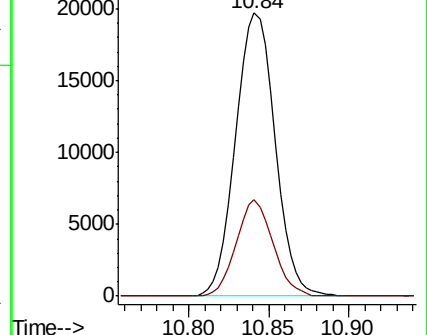
75 100

77 31.5 27.4 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU037239.D (-2944) (-)

Ion 77.00 (76.70 to 77.70): VU037239.D (-2944) (-)



#61

Bromoform

Concen: 5.240 ug/L

RT: 10.31 min Scan# 2791

Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

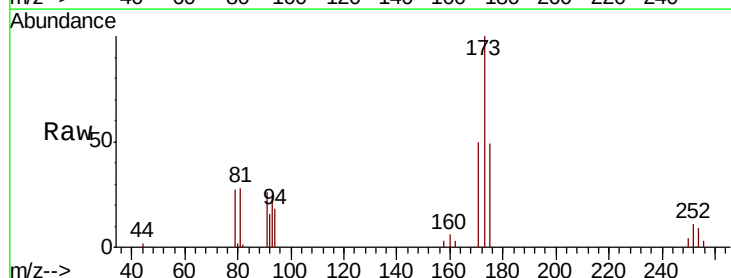
Tgt Ion: 173 Resp: 26200

Ion Ratio Lower Upper

173 100

175 48.1 37.4 56.2

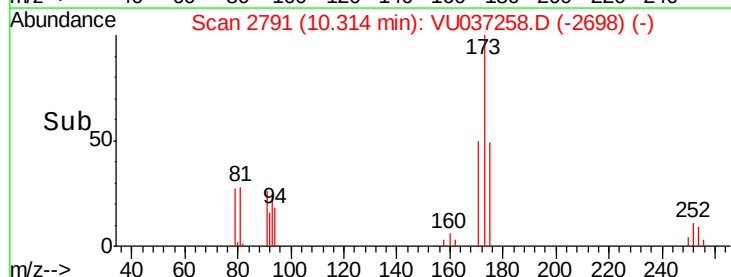
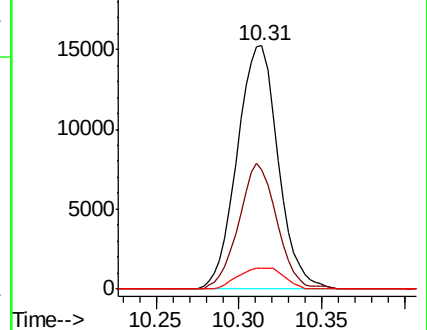
254 9.7 3.5 5.3#

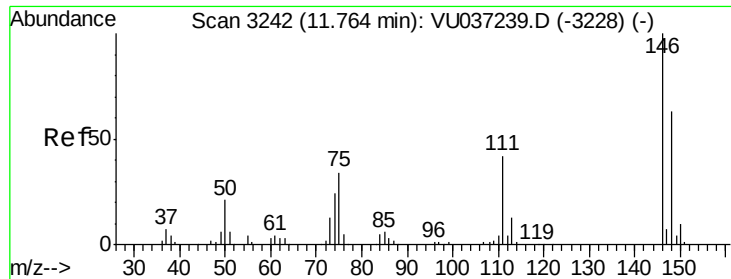


Abundance Ion 172.90 (172.60 to 173.60): VU037239.D (-2778) (-)

Ion 174.90 (174.60 to 175.60): VU037239.D (-2778) (-)

Ion 253.75 (253.45 to 254.45): VU037239.D (-2778) (-)

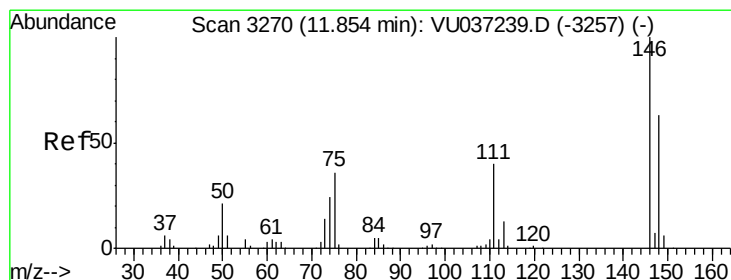
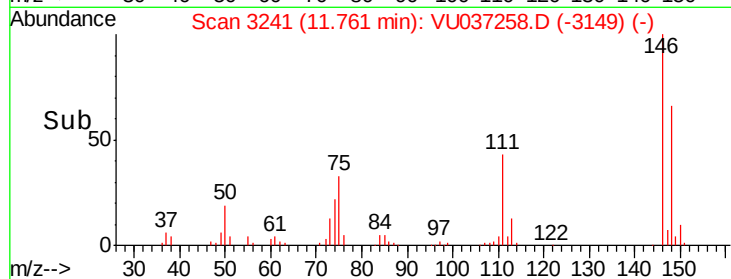
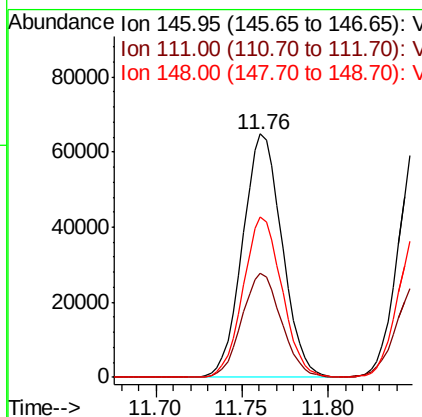
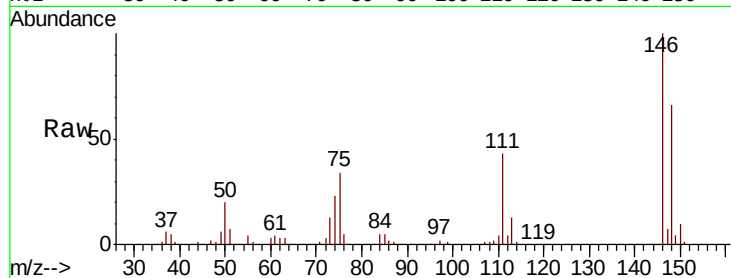




#62
 1,3-Dichlorobenzene
 Concen: 4.815 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

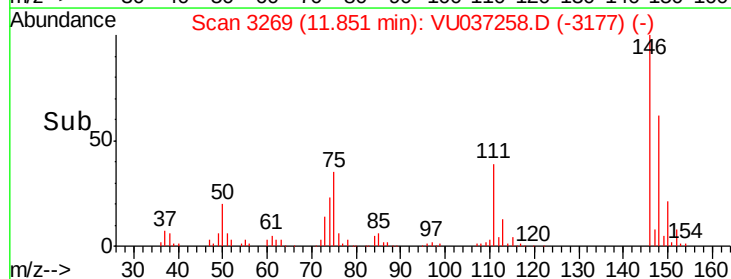
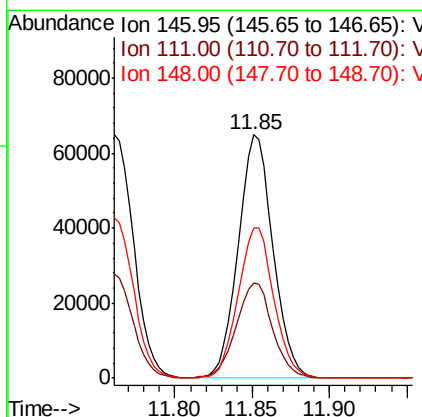
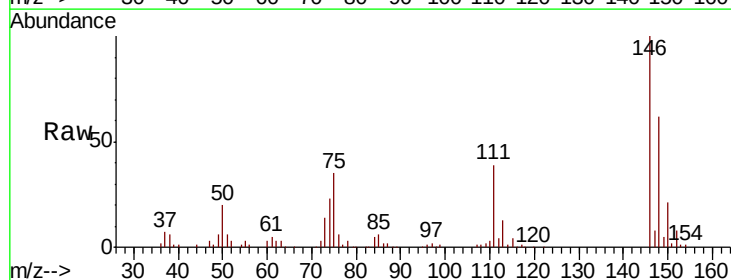
Instrument :
 MSVOA_U
 ClientSampleId :

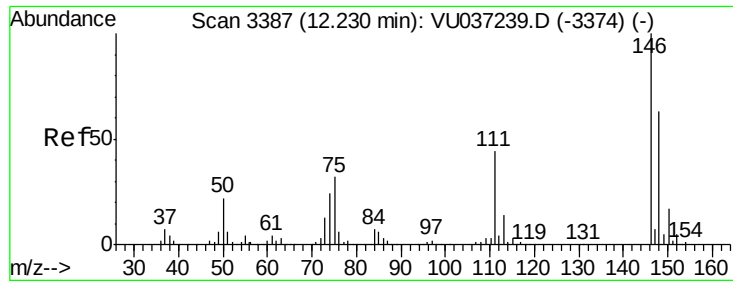
Tot Ion:146 Resp: 103382
 Ion Ratio Lower Upper
 146 100
 111 42.5 30.6 56.8
 148 65.9 46.2 85.8



#63
 1,4-Dichlorobenzene
 Concen: 4.751 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Tgt Ion:146 Resp: 101319
 Ion Ratio Lower Upper
 146 100
 111 39.2 28.4 52.8
 148 61.6 44.9 83.5





#65

1,2-Dichlorobenzene

Concen: 4.771 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU037258.D

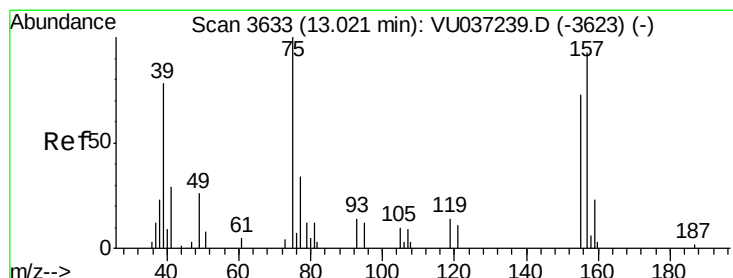
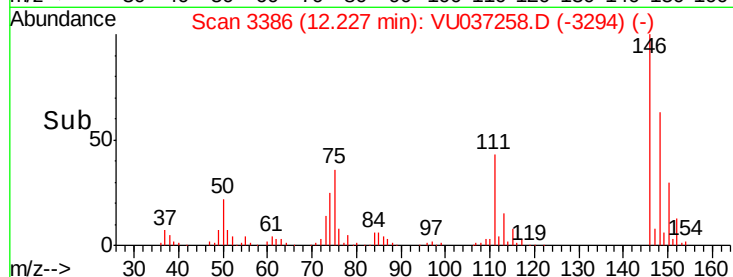
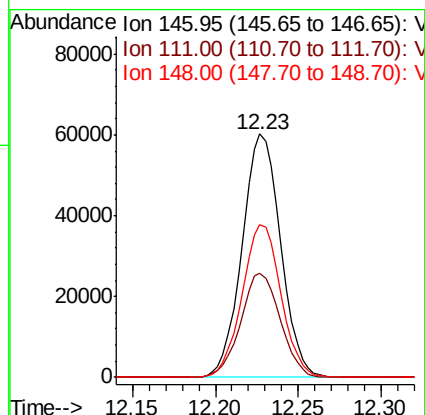
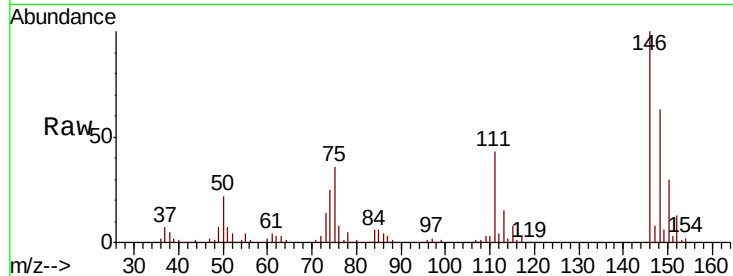
Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:	146	Resp:	97114
Ion	Ratio	Lower	Upper
146	100		
111	42.9	35.5	53.3
148	62.9	51.4	77.2



#66

1,2-Dibromo-3-chloropropane

Concen: 5.196 ug/L

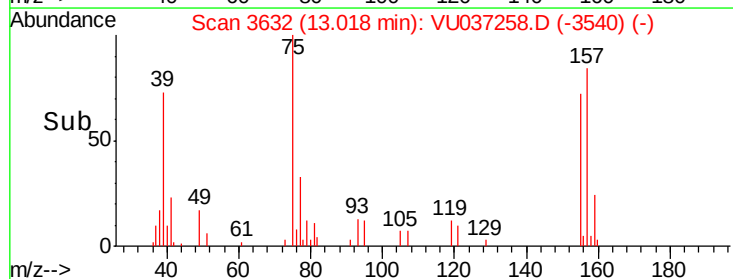
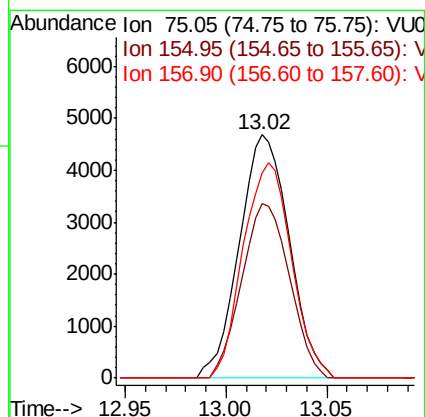
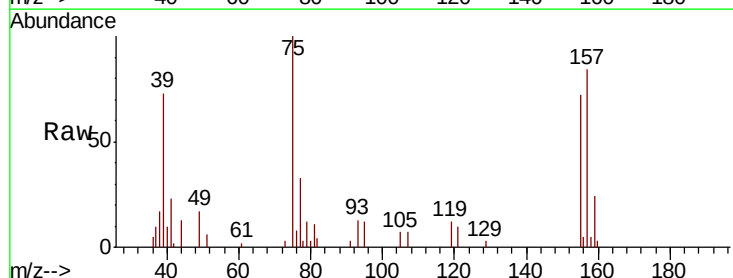
RT: 13.02 min Scan# 3632

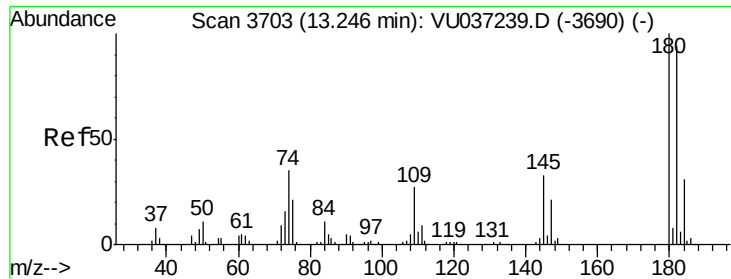
Delta R.T. -0.00 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Tgt Ion:	75	Resp:	8121
Ion	Ratio	Lower	Upper
75	100		
155	71.6	55.5	83.3
157	84.1	73.1	109.7

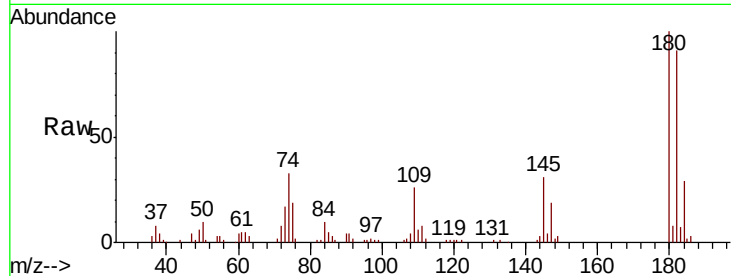




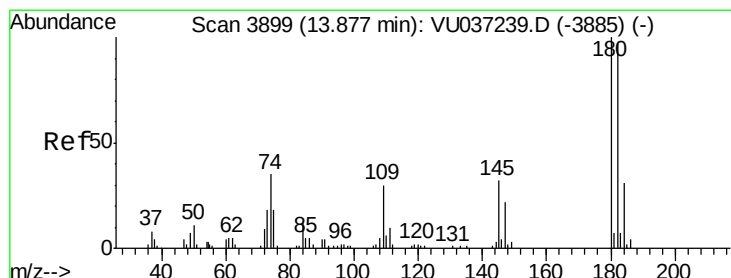
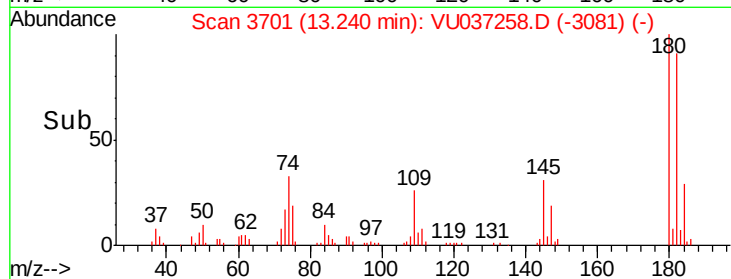
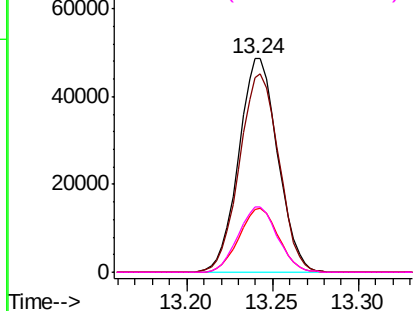
#67
 1,3,5-Trichlorobenzene
 Concen: 5.205 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.01 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	76495
Ion	Ratio	Lower	Upper
180	100		
182	93.9	73.6	110.4
184	30.0	24.1	36.1
145	30.9	26.3	39.5

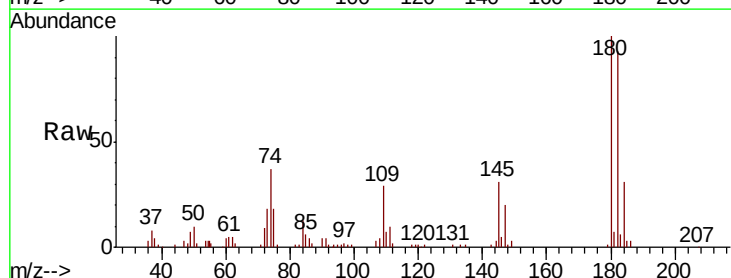


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

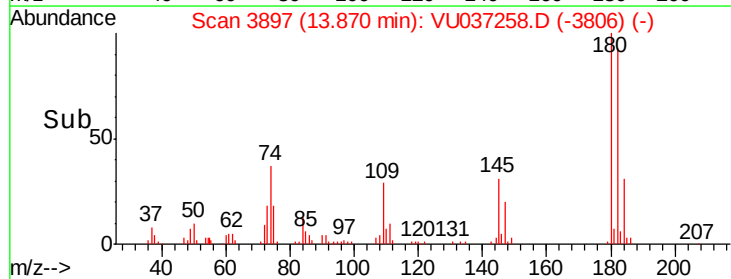
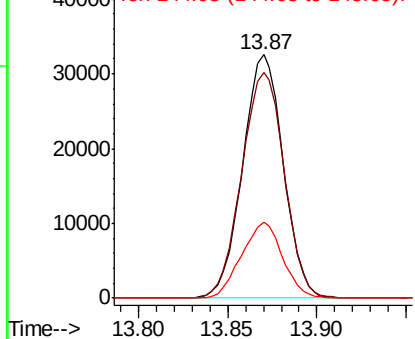


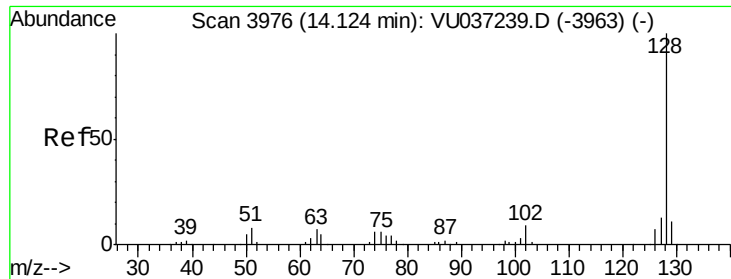
#68
 1,2,4-trichlorobenzene
 Concen: 5.187 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. -0.01 min
 Lab File: VU037258.D
 Acq: 13 Mar 2020 21:54

Tgt Ion:	180	Resp:	51700
Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.7	115.1
145	31.5	26.6	39.8



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





#69

Naphthalene

Concen: 5.256 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. -0.01 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

Instrument :

MSVOA_U

ClientSampleId :

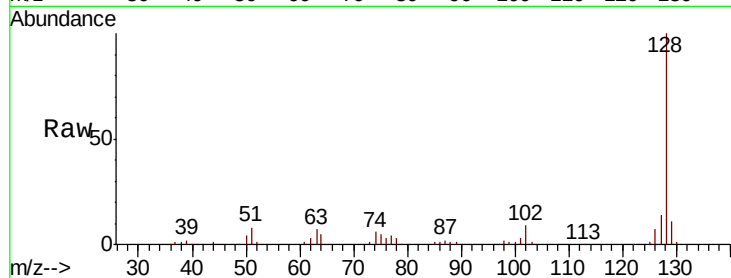
Tot Ion:128 Resp: 74829

Ion Ratio Lower Upper

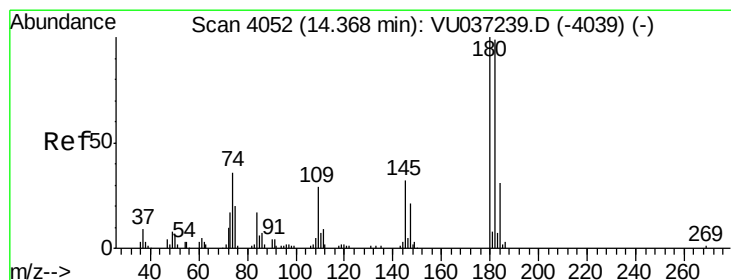
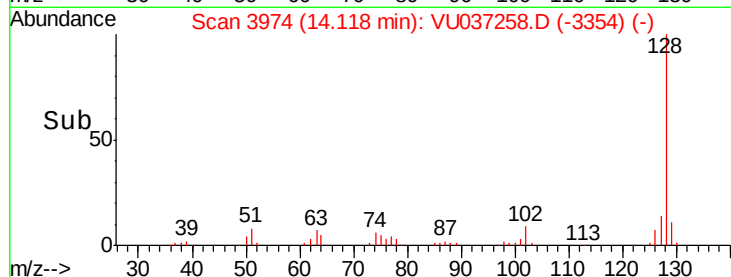
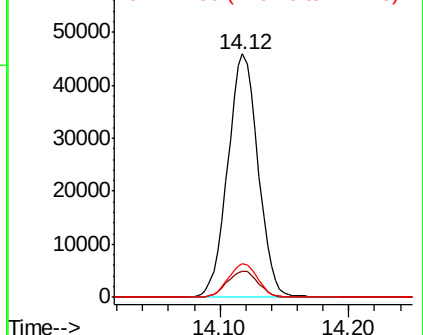
128 100

129 11.0 8.6 12.8

127 13.4 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.394 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VU037258.D

Acq: 13 Mar 2020 21:54

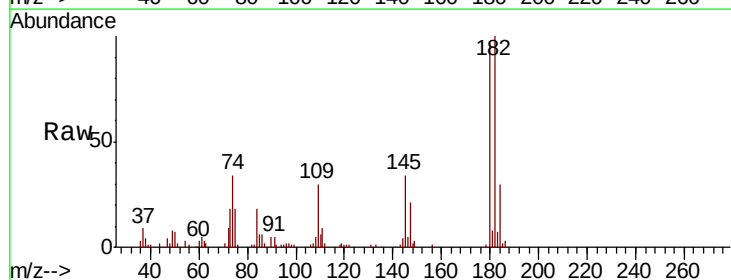
Tgt Ion:180 Resp: 50453

Ion Ratio Lower Upper

180 100

182 99.5 77.0 115.6

145 34.4 28.2 42.4



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

