

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020720\
 Data File : VU036699.D
 Acq On : 07 Feb 2020 13:36
 Operator : JC/MD
 Sample : MDL02
 Misc : 5.00uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Quant Time: Feb 07 22:40:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 22:36:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	261231	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	240763	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	103933	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	77470	44.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.94%
7) Chloroethane-d5	1.93	69	75253	46.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.16%
11) 1,1-Dichloroethene-d2	2.59	63	113229	34.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.86%
21) 2-Butanone-d5	4.68	46	117430	79.01	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.01%
24) Chloroform-d	5.11	84	140189	44.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.92%
26) 1,2-Dichloroethane-d4	5.75	65	105644	48.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.98%
32) Benzene-d6	5.77	84	315680	49.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.74%
36) 1,2-Dichloropropane-d6	6.73	67	105829	50.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.72%
41) Toluene-d8	7.93	98	285781	49.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.60%
43) trans-1,3-Dichloropropene-	8.21	79	49204	48.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.82%
47) 2-Hexanone-d5	8.67	63	122943	102.52	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.52%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	154252	49.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.62%
66) 1,2-Dichlorobenzene-d4	12.21	152	94920	50.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.54%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	4064	2.252	ug/L	100
3) Chloromethane	1.54	50	5005	2.340	ug/L	97
5) Vinyl chloride	1.62	62	5542	2.407	ug/L #	54
6) Bromomethane	1.87	94	3278	2.270	ug/L	89
8) Chloroethane	1.95	64	3074	2.103	ug/L	95
9) Trichlorofluoromethane	2.16	101	6138	2.243	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	4810	2.935	ug/L #	84
12) 1,1-Dichloroethene	2.60	96	4291	2.689	ug/L #	1
13) Acetone	2.66	43	9542	6.043	ug/L	99
14) Carbon disulfide	2.82	76	10495	2.201	ug/L	99
15) Methyl Acetate	2.99	43	5170	2.265	ug/L	100
16) Methylene chloride	3.08	84	4997	2.537	ug/L	95
17) trans-1,2-Dichloroethene	3.39	96	4046	2.383	ug/L	97
18) Methyl tert-butyl Ether	3.41	73	13283	2.254	ug/L	99
19) 1,1-Dichloroethane	3.92	63	7766	2.296	ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	4584	2.370	ug/L	95
22) 2-Butanone	4.75	43	14148	7.550	ug/L	84

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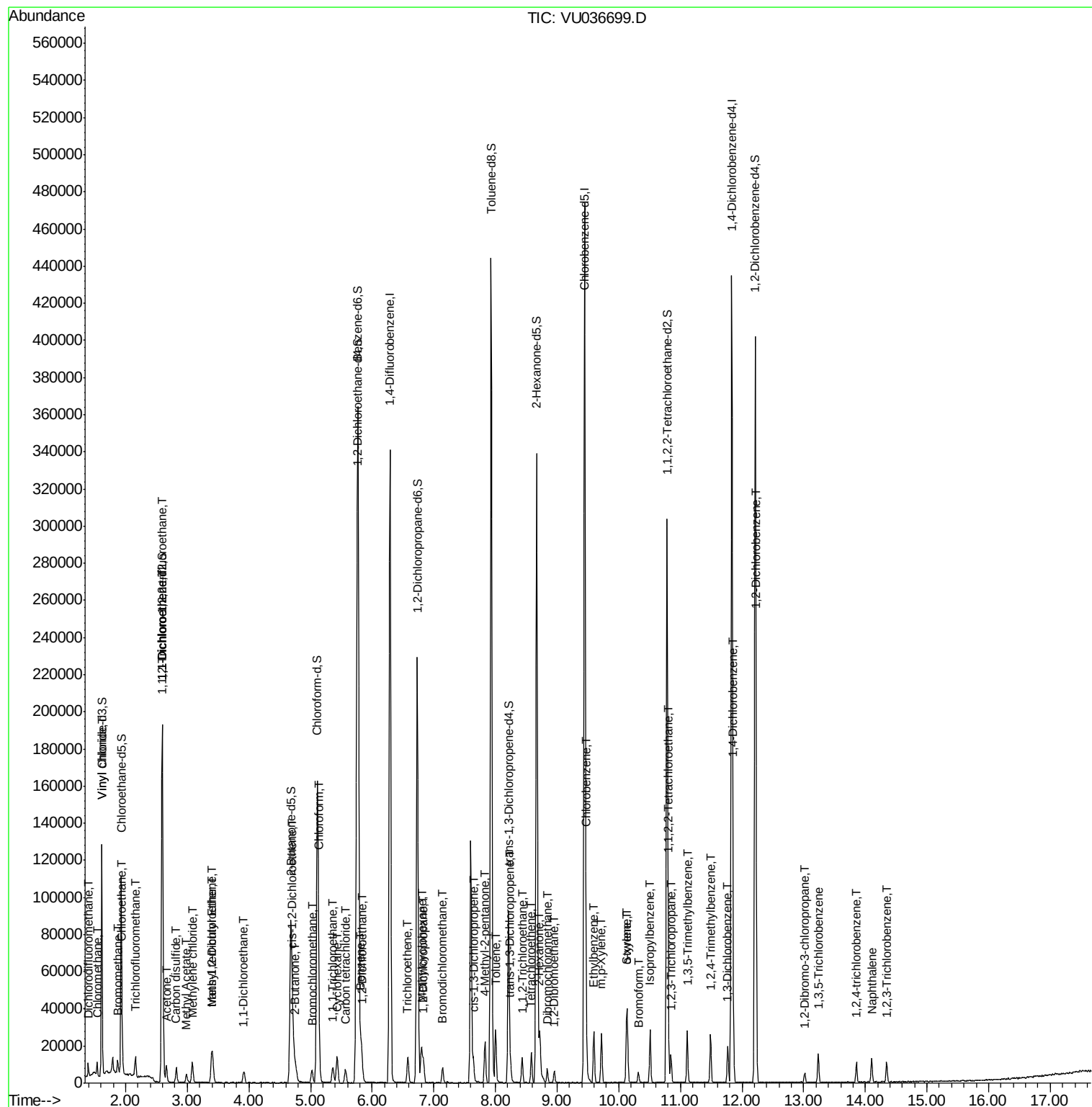
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	2012	2.219	ug/L	90
25) Chloroform	5.14	83	19307	5.868	ug/L	98
27) 1,2-Dichloroethane	5.84	62	6487	2.345	ug/L	96
29) Cyclohexane	5.43	56	6839	2.211	ug/L	94
30) 1,1,1-Trichloroethane	5.36	97	5972	2.335	ug/L	97
31) Carbon tetrachloride	5.57	117	4603	2.223	ug/L	90
33) Benzene	5.82	78	17168	2.358	ug/L	100
34) Trichloroethene	6.58	95	4148	2.303	ug/L	92
35) Methylcyclohexane	6.80	83	6988	2.203	ug/L	94
37) 1,2-Dichloropropane	6.83	63	4609	2.347	ug/L #	91
38) Bromodichloromethane	7.14	83	5193	2.176	ug/L	96
39) cis-1,3-Dichloropropene	7.64	75	6943	2.213	ug/L	96
40) 4-Methyl-2-pentanone	7.83	43	14532	4.684	ug/L	99
42) Toluene	8.00	91	19550	2.484	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	6480	2.364	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	4194	2.341	ug/L	97
46) Tetrachloroethene	8.58	164	3176	2.513	ug/L	97
48) 2-Hexanone	8.72	43	12731	5.030	ug/L	97
49) Dibromochloromethane	8.84	129	3813	2.176	ug/L	97
50) 1,2-Dibromoethane	8.95	107	4254	2.260	ug/L #	94
51) Chlorobenzene	9.47	112	10926	2.306	ug/L	96
52) Ethylbenzene	9.60	91	19076	2.206	ug/L	96
53) m,p-Xylene	9.72	106	7257	2.275	ug/L	98
54) o-xylene	10.13	106	7199	2.278	ug/L	89
55) Styrene	10.14	104	11211	2.129	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.81	83	8113	2.513	ug/L #	95
59) Bromoform	10.32	173	2509	2.185	ug/L #	95
60) 1,2,3-Trichloropropane	10.85	75	6212	2.541	ug/L	98
61) Isopropylbenzene	10.51	105	18225	2.355	ug/L	99
62) 1,3,5-Trimethylbenzene	11.11	105	15458	2.330	ug/L	99
63) 1,2,4-Trimethylbenzene	11.49	105	13830	2.087	ug/L	95
64) 1,3-Dichlorobenzene	11.77	146	7709	2.369	ug/L	96
65) 1,4-Dichlorobenzene	11.86	146	7443	2.272	ug/L	91
67) 1,2-Dichlorobenzene	12.24	146	8072	2.450	ug/L	96
68) 1,2-Dibromo-3-chloropropan	13.01	75	1566	2.241	ug/L	90
69) 1,3,5-Trichlorobenzene	13.24	180	4757	2.108	ug/L	97
70) 1,2,4-trichlorobenzene	13.86	180	3001	1.595	ug/L	95
71) Naphthalene	14.10	128	10076	1.519	ug/L	98
72) 1,2,3-Trichlorobenzene	14.35	180	2964	1.581	ug/L	92

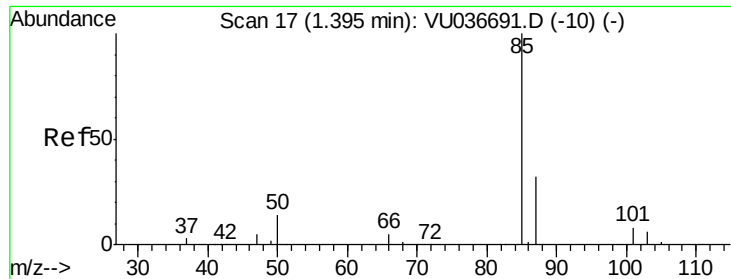
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.252 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

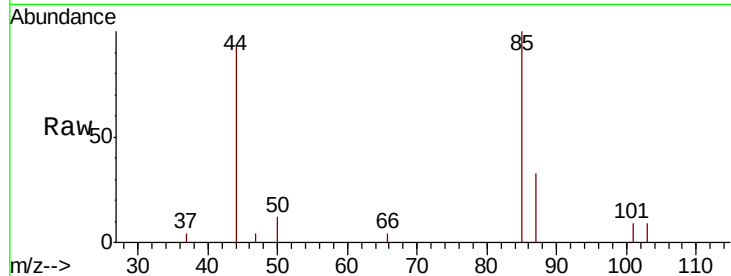
MDL02

Tot Ion: 85 Resp: 4064

Ion Ratio Lower Upper

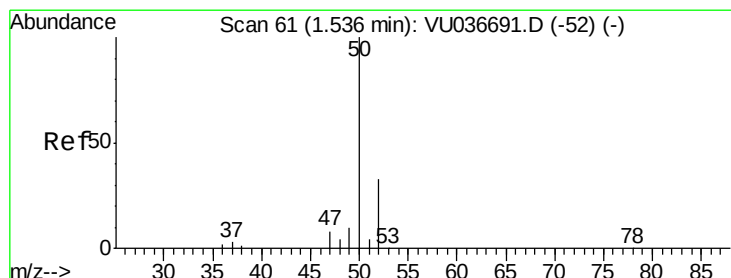
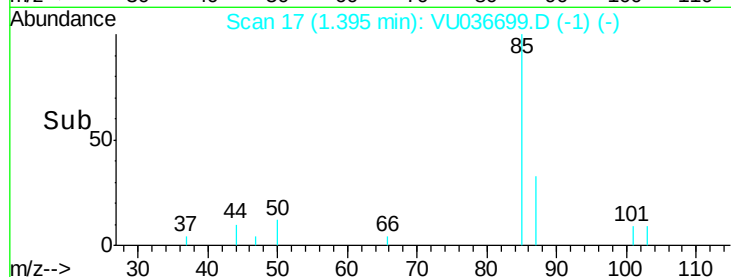
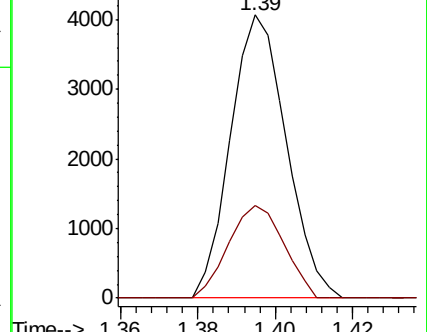
85 100

87 32.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036699.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036699.D (-1) (-)



#3

Chloromethane

Concen: 2.340 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036699.D

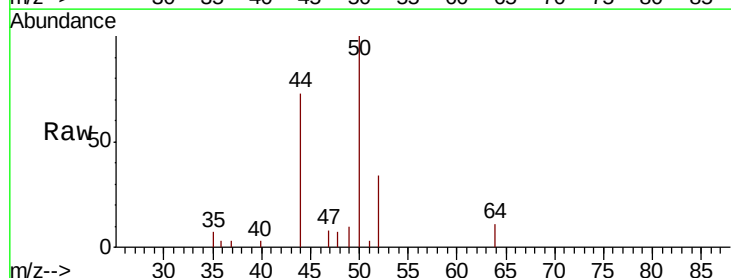
Acq: 07 Feb 2020 13:36

Tgt Ion: 50 Resp: 5005

Ion Ratio Lower Upper

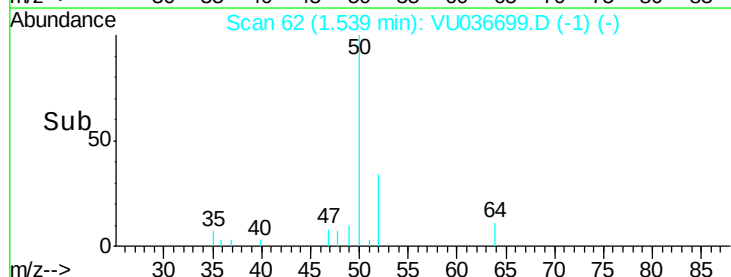
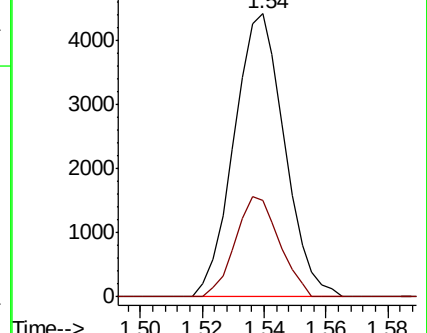
50 100

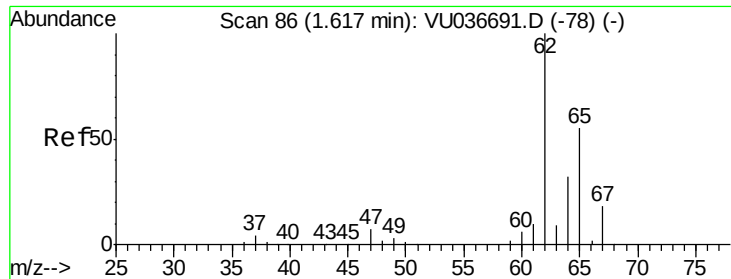
52 34.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036699.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU036699.D (-1) (-)





#5

Vinyl chloride

Concen: 2.407 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

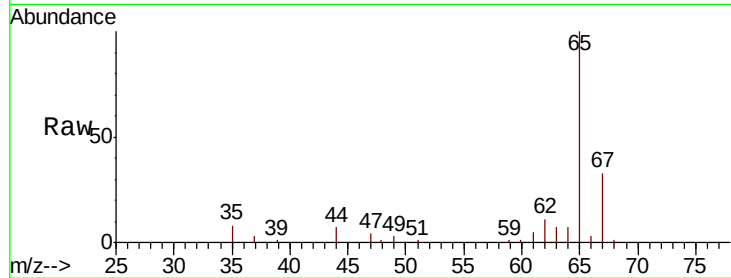
MDL02

Tot Ion: 62 Resp: 5542

Ion Ratio Lower Upper

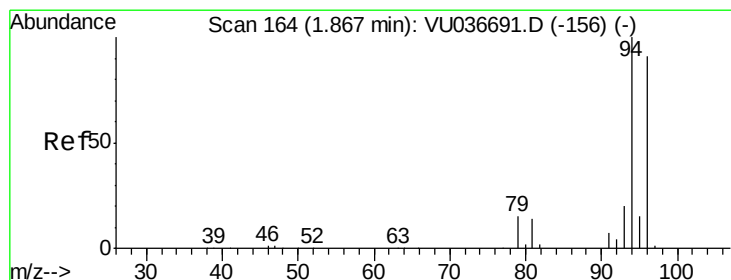
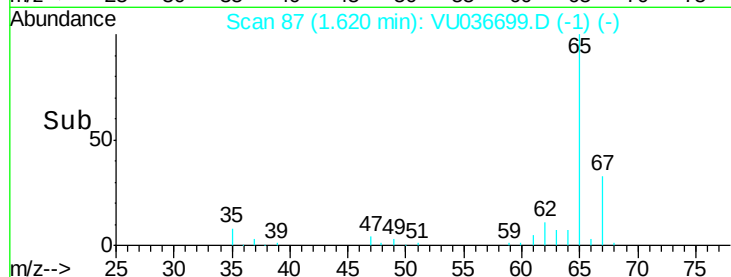
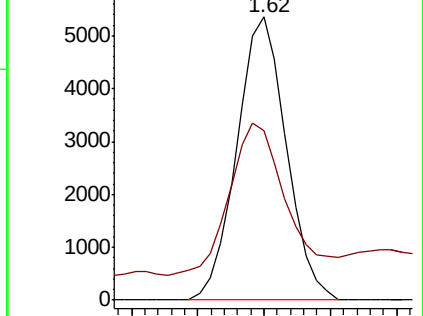
62 100

64 59.7 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.270 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036699.D

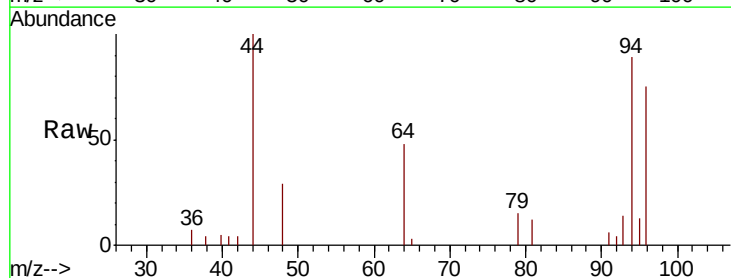
Acq: 07 Feb 2020 13:36

Tgt Ion: 94 Resp: 3278

Ion Ratio Lower Upper

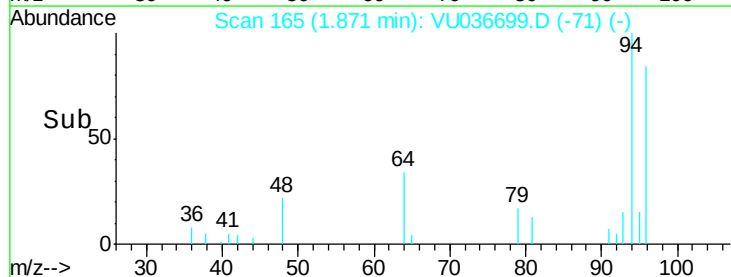
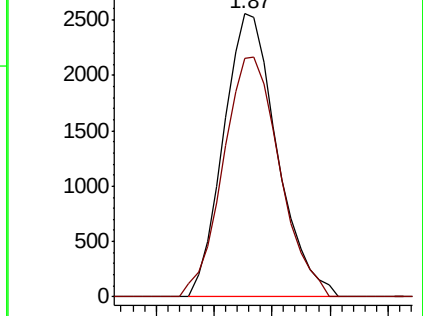
94 100

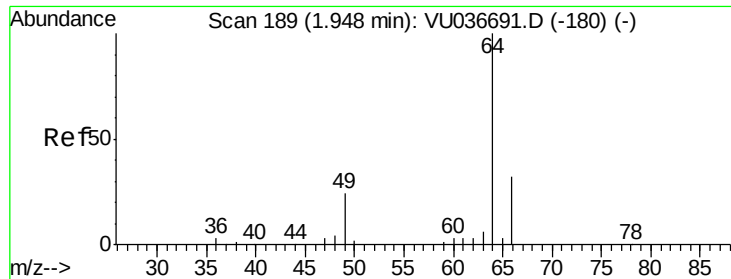
96 84.2 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

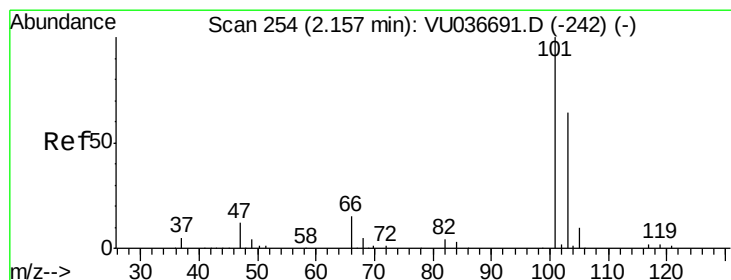
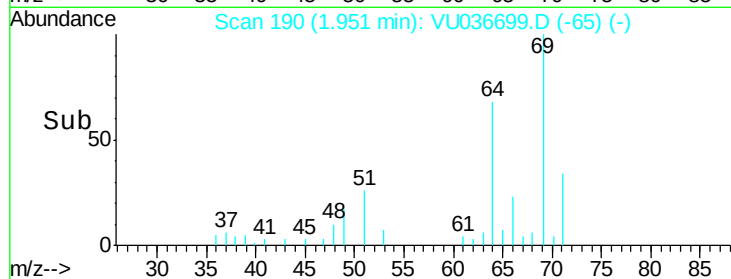
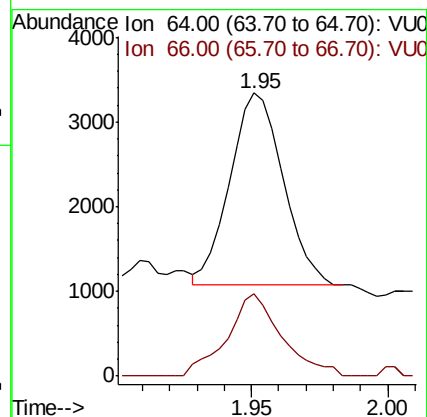
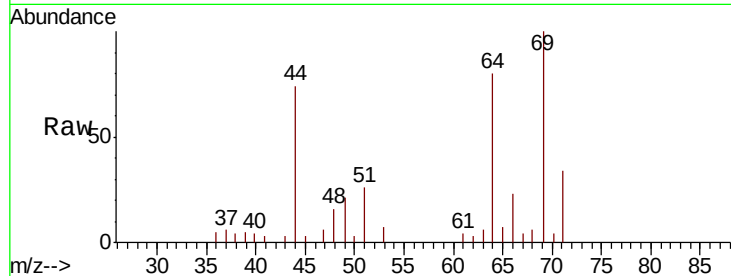




#8
Chloroethane
Concen: 2.103 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

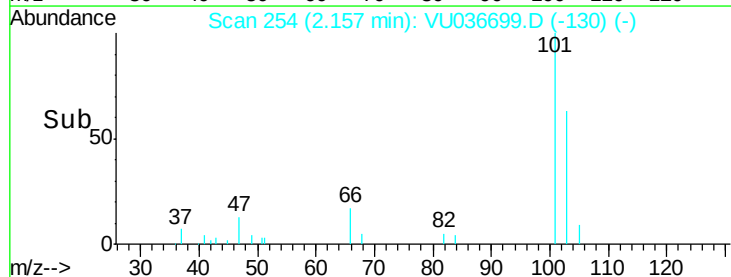
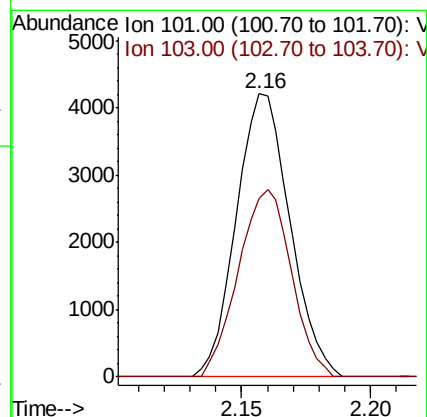
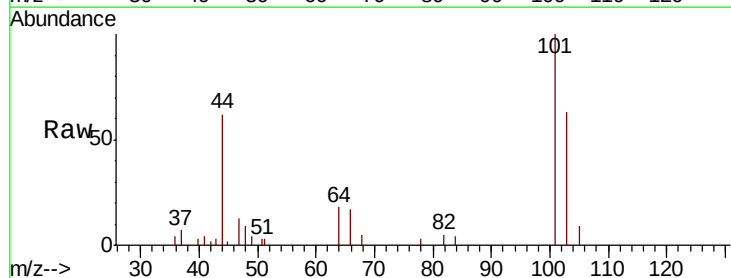
Instrument :
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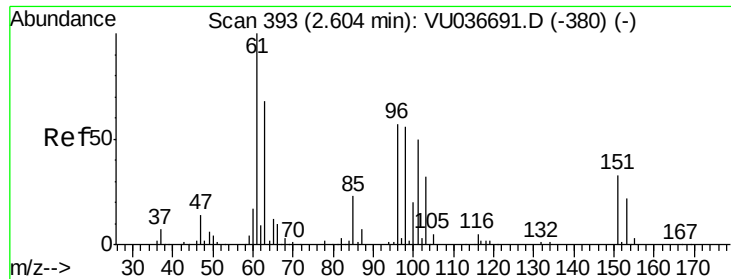
Tot Ion: 64 Resp: 3074
Ion Ratio Lower Upper
64 100
66 29.0 22.1 41.1



#9
Trichlorofluoromethane
Concen: 2.243 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

Tgt Ion: 101 Resp: 6138
Ion Ratio Lower Upper
101 100
103 65.2 51.6 77.4





#10

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

Concen: 2.935 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampled :

MDL02

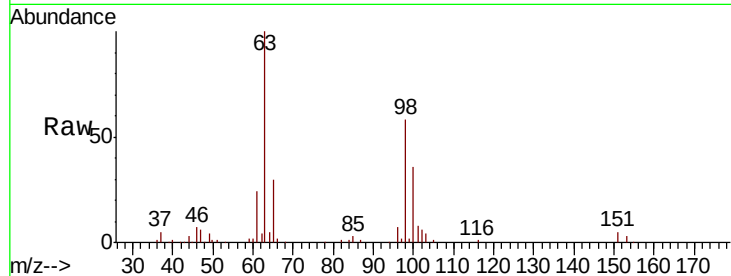
Tot Ion:101 Resp: 4810

Ion Ratio Lower Upper

101 100

85 33.6 36.5 54.7#

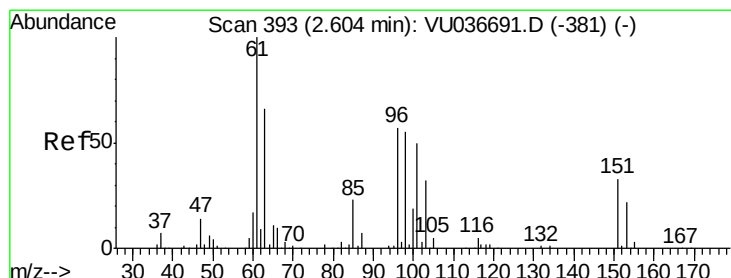
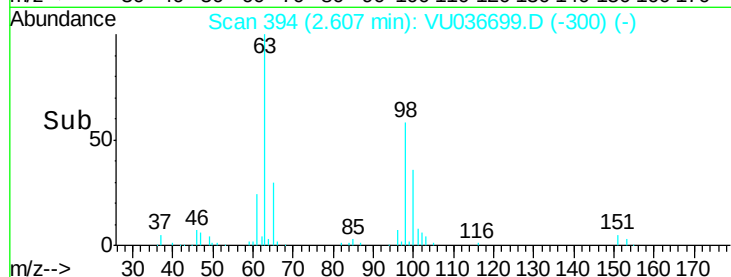
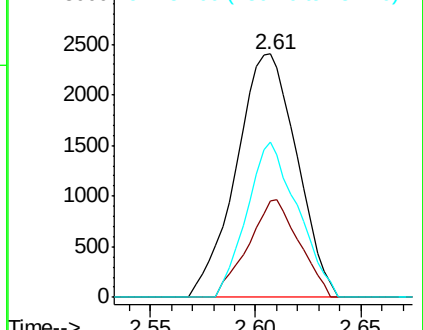
151 53.6 52.6 78.8



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: 2.689 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

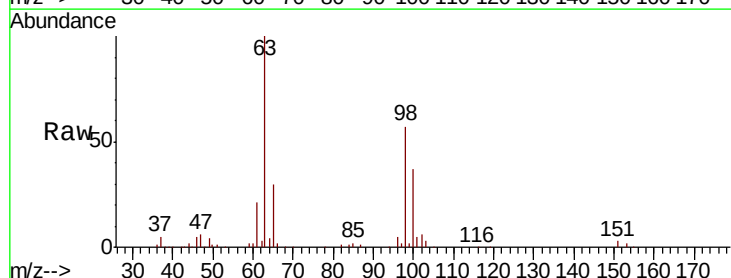
Tgt Ion: 96 Resp: 4291

Ion Ratio Lower Upper

96 100

61 399.7 124.4 231.0#

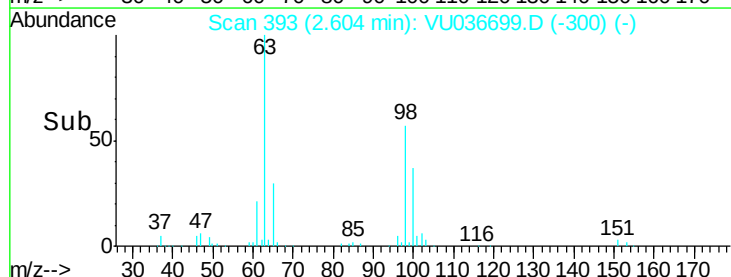
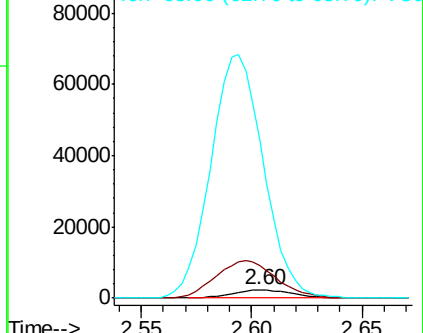
63 1935.2 83.4 155.0#

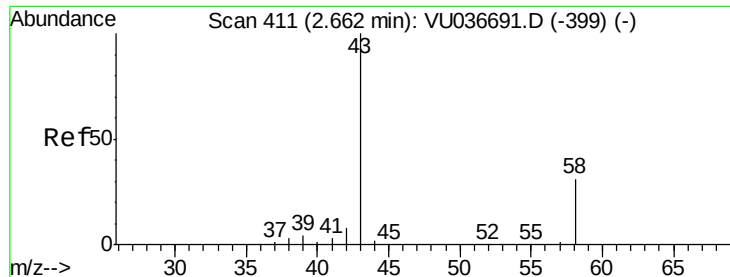


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.043 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036699.D

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MSVOA_U

ClientSampleId :

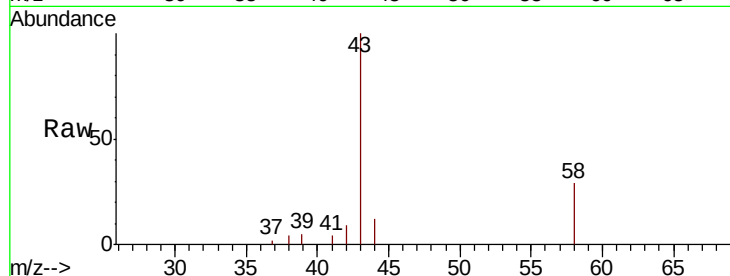
MDL02

Tot Ion: 43 Resp: 9542

Ion Ratio Lower Upper

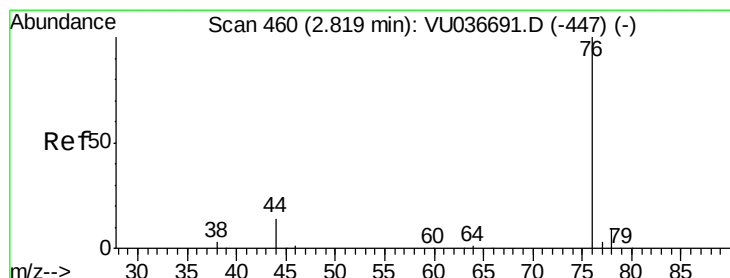
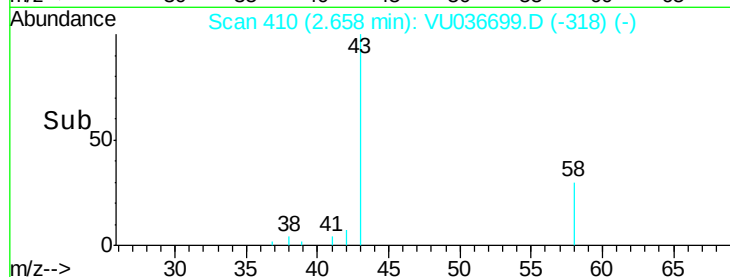
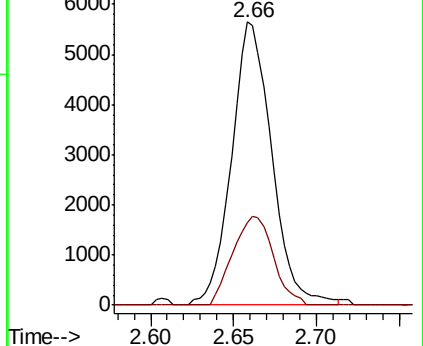
43 100

58 31.3 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036699.D (-318) (-)

Ion 58.00 (57.70 to 58.70): VU036699.D (-318) (-)



#14

Carbon disulfide

Concen: 2.201 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036699.D

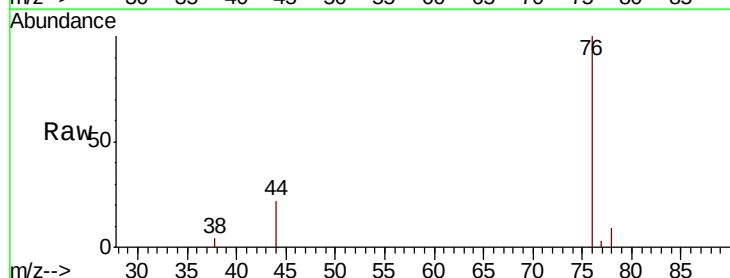
Acq: 07 Feb 2020 13:36

Tgt Ion: 76 Resp: 10495

Ion Ratio Lower Upper

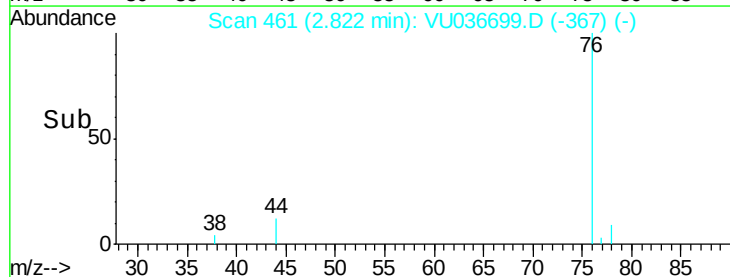
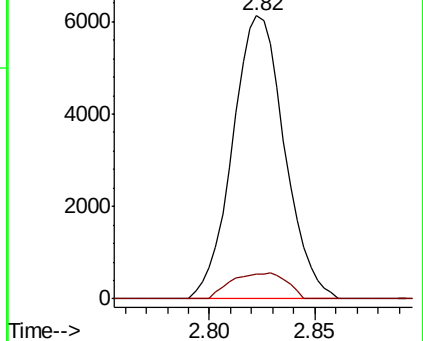
76 100

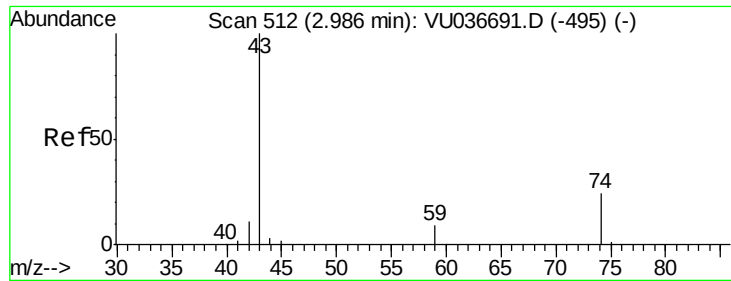
78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036699.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU036699.D (-367) (-)

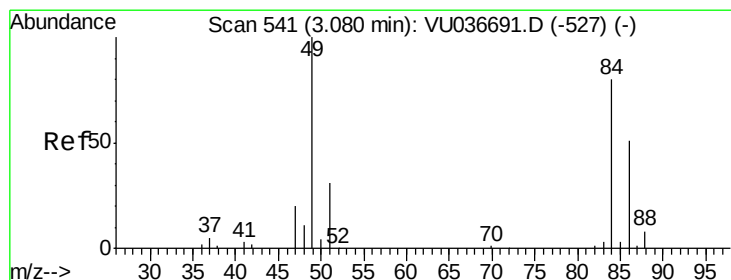
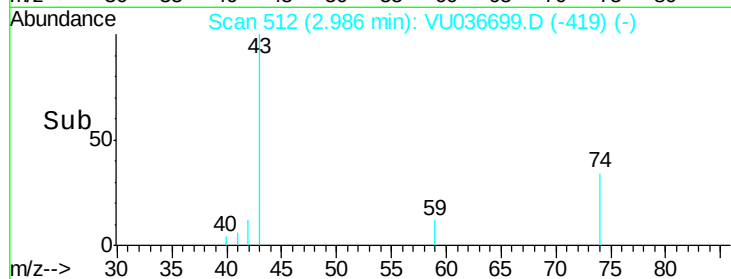
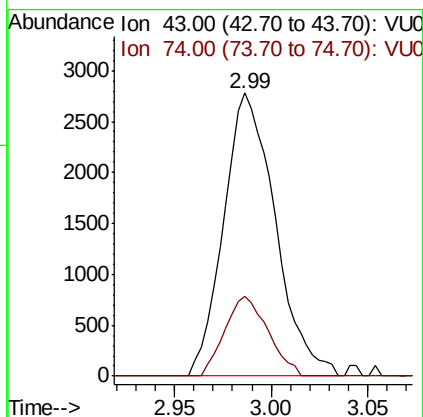
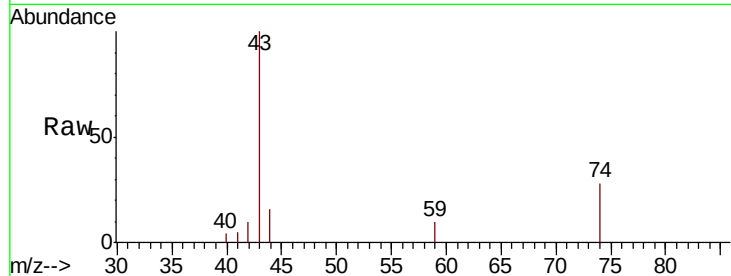




#15
Methyl Acetate
Concen: 2.265 ug/L
RT: 2.99 min Scan# 512
Delta R.T. -0.00 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

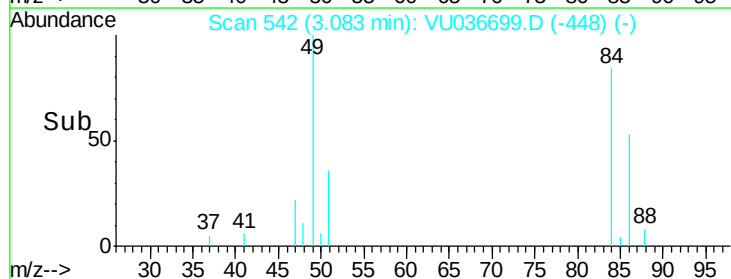
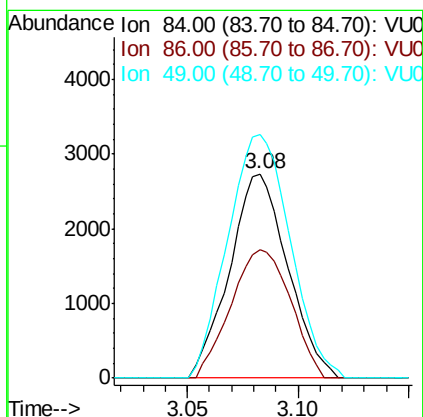
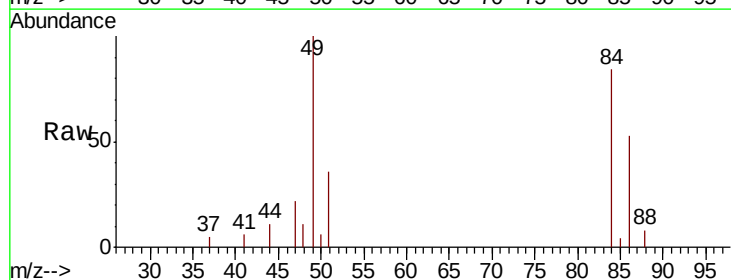
Instrument :
MSVOA_U
ClientSampled :
MDL02

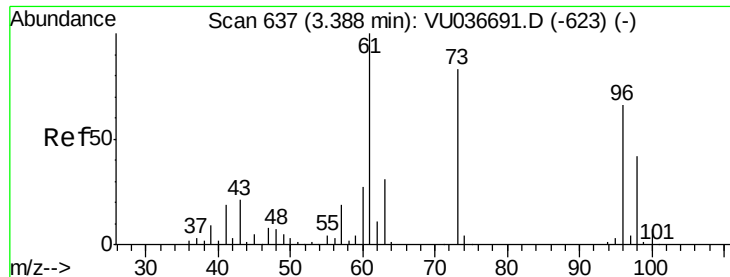
Tot Ion: 43 Resp: 5170
Ion Ratio Lower Upper
43 100
74 23.4 18.7 28.1



#16
Methylene chloride
Concen: 2.537 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

Tgt Ion: 84 Resp: 4997
Ion Ratio Lower Upper
84 100
86 63.1 44.4 82.5
49 119.4 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.383 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.01 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL02

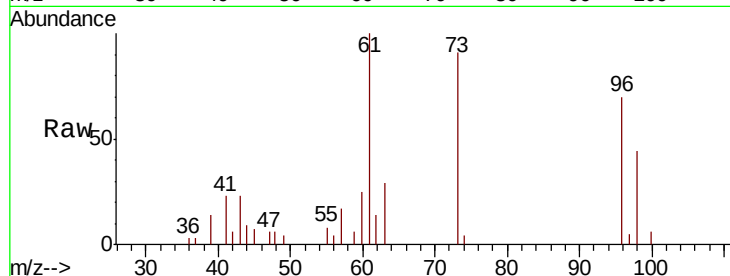
Tot Ion: 96 Resp: 4046

Ion Ratio Lower Upper

96 100

61 143.4 103.4 192.0

98 63.7 45.4 84.2

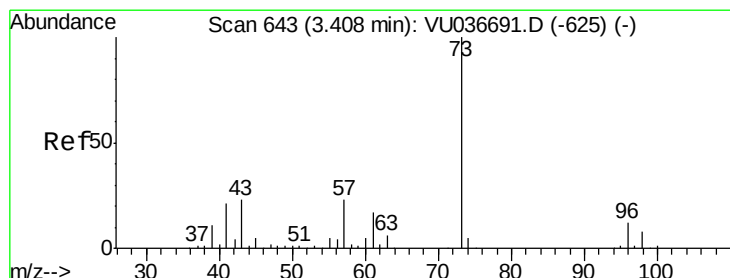
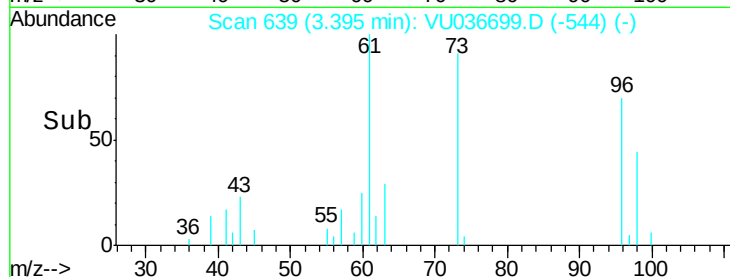


Abundance Ion 96.00 (95.70 to 96.70): VU036699.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU036699.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036699.D (-544) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 2.254 ug/L

RT: 3.41 min Scan# 645

Delta R.T. 0.01 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

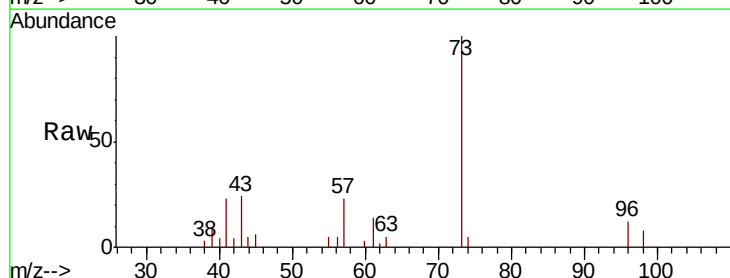
Tgt Ion: 73 Resp: 13283

Ion Ratio Lower Upper

73 100

43 23.6 18.6 28.0

57 22.1 18.3 27.5

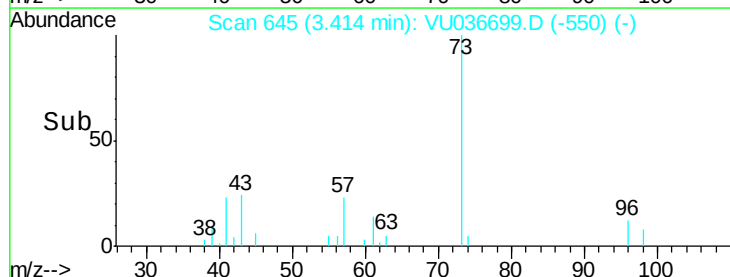


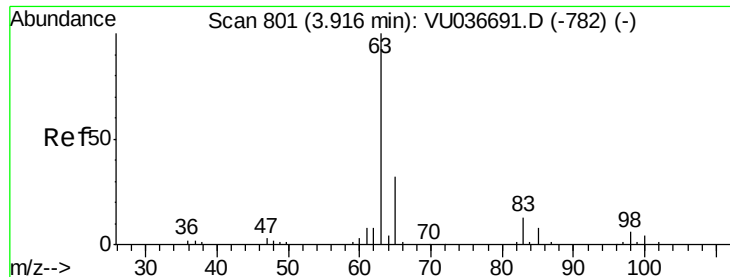
Abundance Ion 73.00 (72.70 to 73.70): VU036699.D (-550) (-)

Ion 43.00 (42.70 to 43.70): VU036699.D (-550) (-)

Ion 57.00 (56.70 to 57.70): VU036699.D (-550) (-)

Time-->

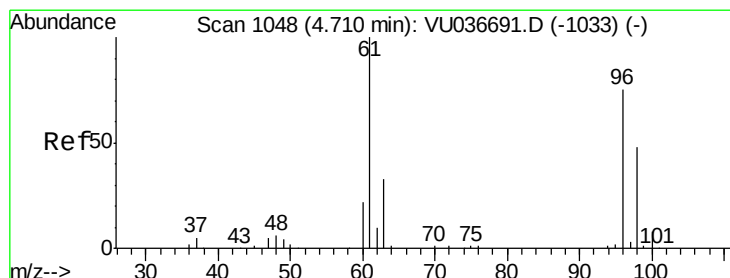
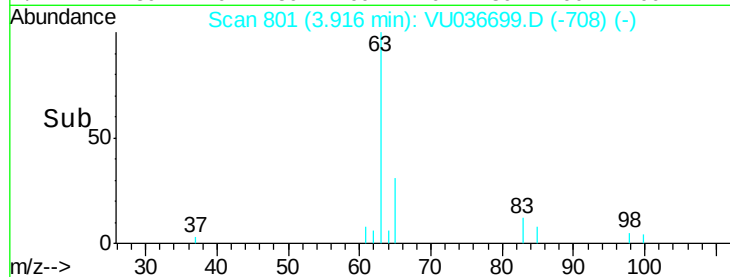
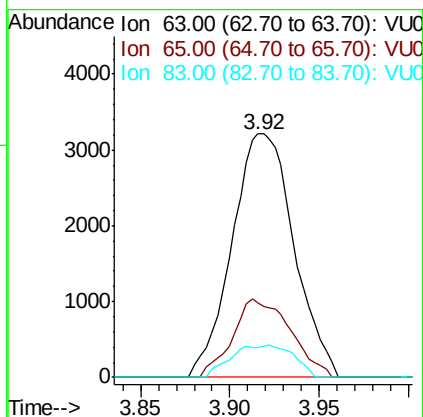
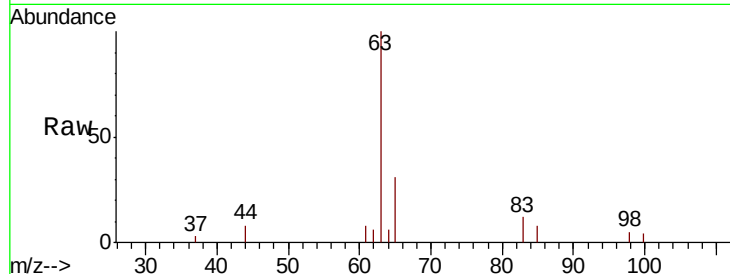




#19
 1,1-Dichloroethane
 Concen: 2.296 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

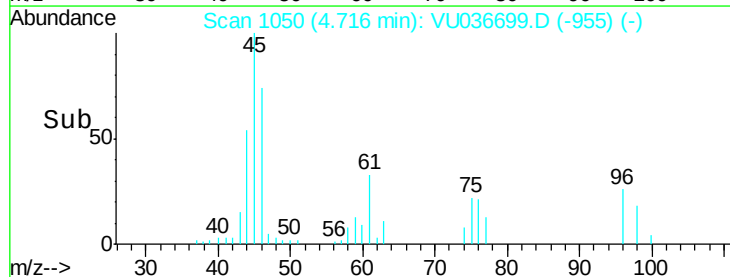
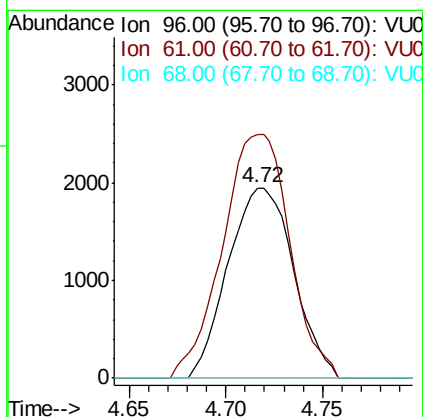
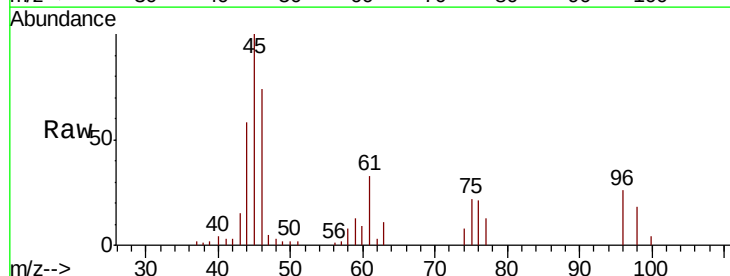
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

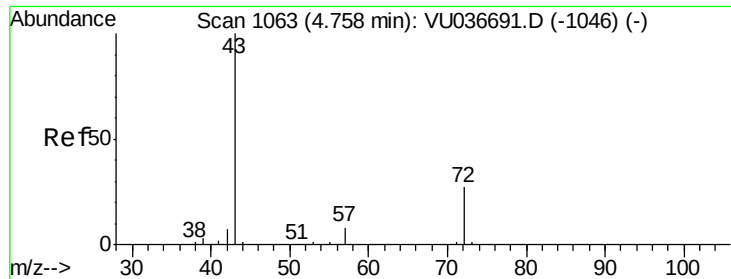
Tot Ion: 63 Resp: 7766
 Ion Ratio Lower Upper
 63 100
 65 30.5 22.0 40.8
 83 12.3 10.1 18.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.370 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion: 96 Resp: 4584
 Ion Ratio Lower Upper
 96 100
 61 128.0 93.3 173.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 7.550 ug/L

RT: 4.75 min Scan# 1062

Delta R.T. -0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

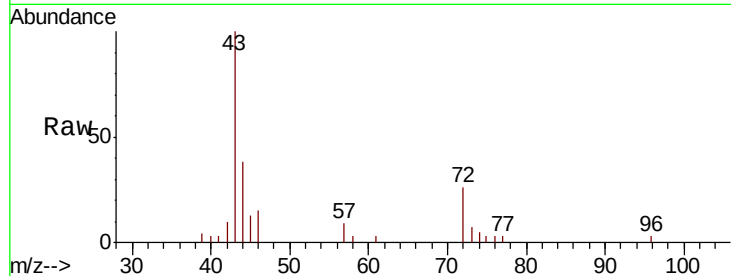
MDL02

Tot Ion: 43 Resp: 14148

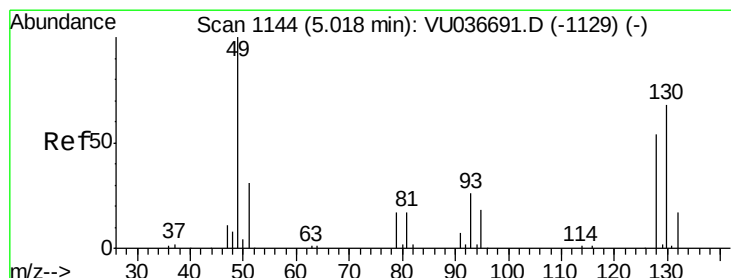
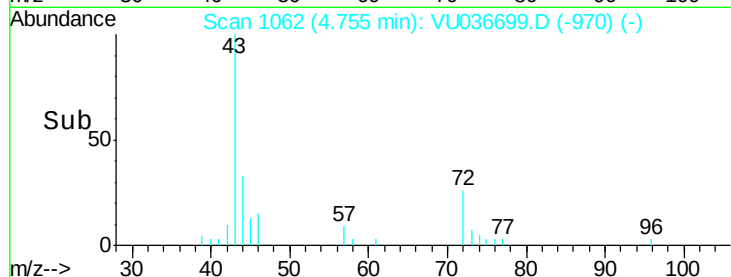
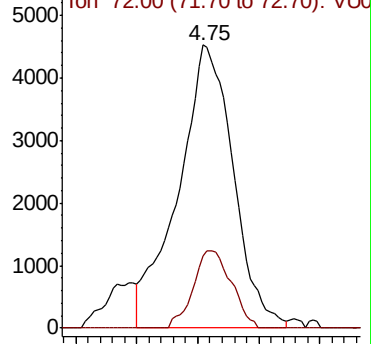
Ion Ratio Lower Upper

43 100

72 18.9 13.6 40.7



Abundance Ion 43.00 (42.70 to 43.70): VU036699.D (-970) (-)



#23

Bromochloromethane

Concen: 2.219 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Tgt Ion:128 Resp: 2012

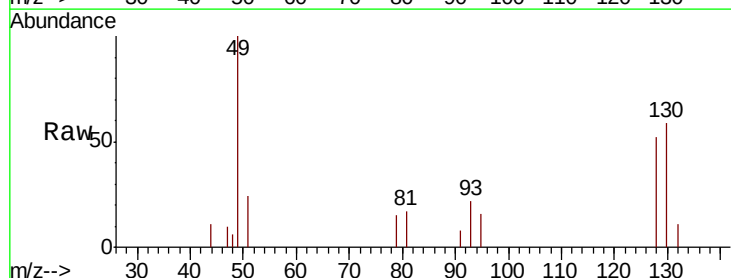
Ion Ratio Lower Upper

128 100

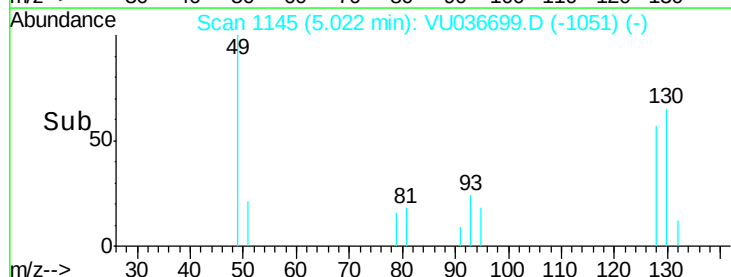
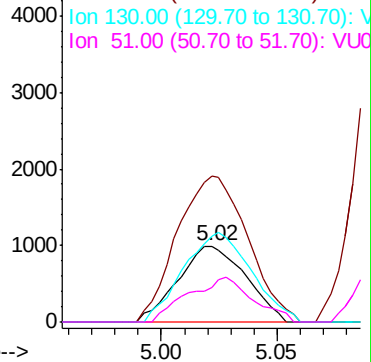
49 193.2 127.3 236.5

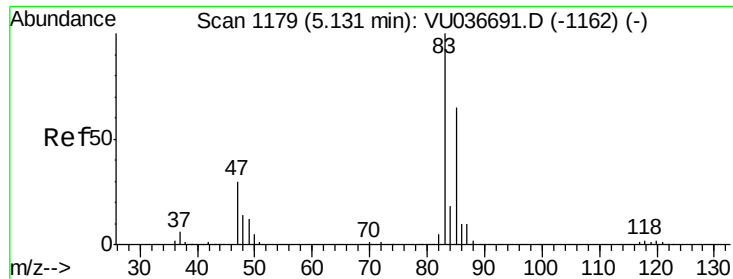
130 114.3 88.5 164.3

51 46.5 44.4 66.6



Abundance Ion 128.00 (127.70 to 128.70): VU036699.D (-1051) (-)

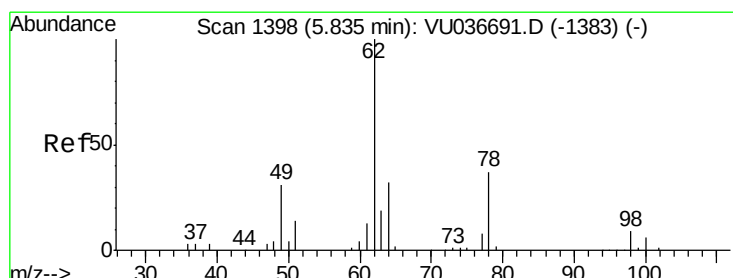
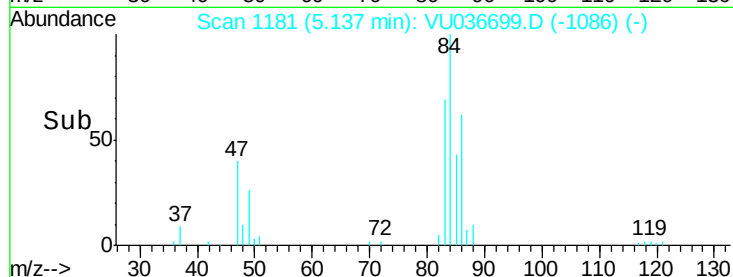
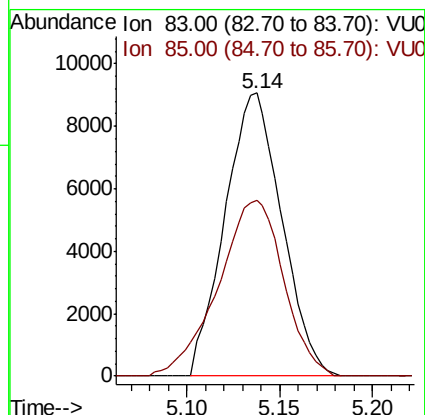
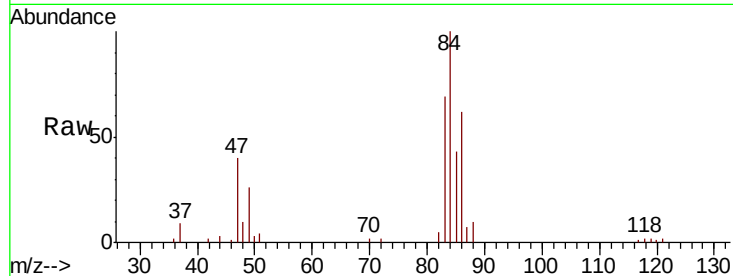




#25
Chloroform
Concen: 5.868 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

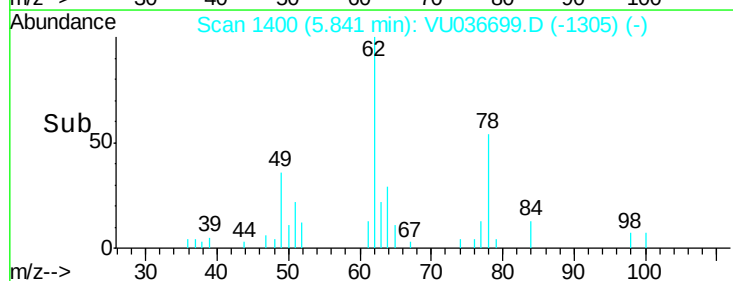
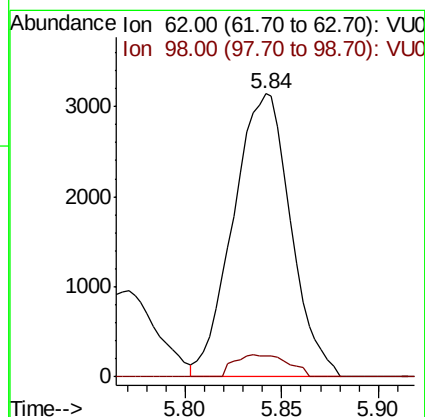
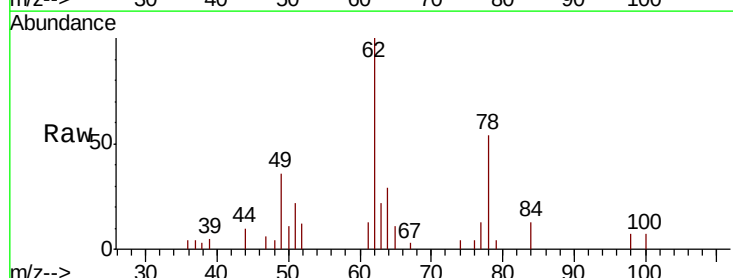
Instrument :
MSVOA_U
ClientSampleId :
MDL02

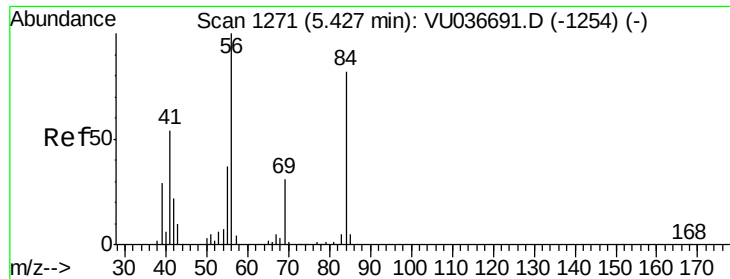
Tot Ion: 83 Resp: 19307
Ion Ratio Lower Upper
83 100
85 61.9 44.6 82.8



#27
1,2-Dichloroethane
Concen: 2.345 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.01 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

Tgt Ion: 62 Resp: 6487
Ion Ratio Lower Upper
62 100
98 7.2 7.0 10.4

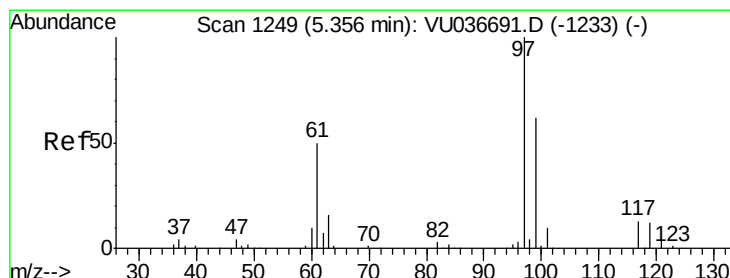
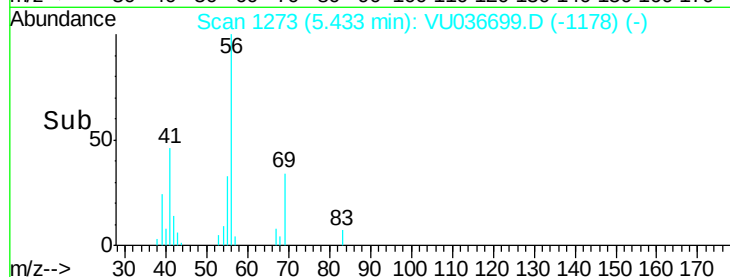
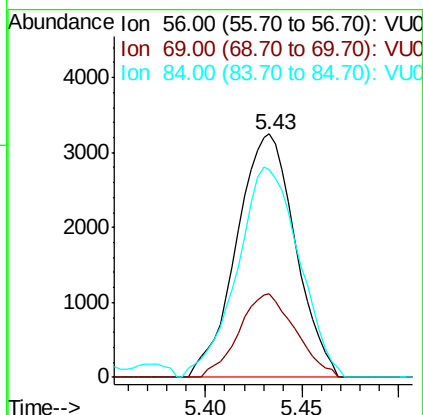
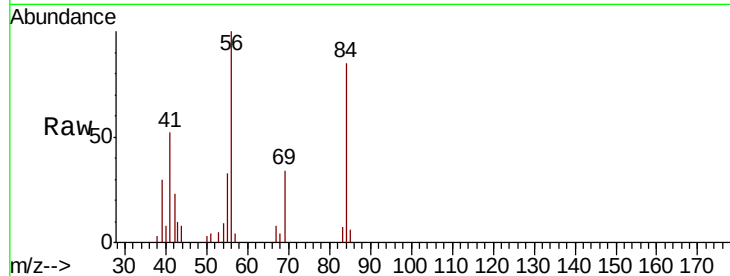




#29
Cyclohexane
Concen: 2.211 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

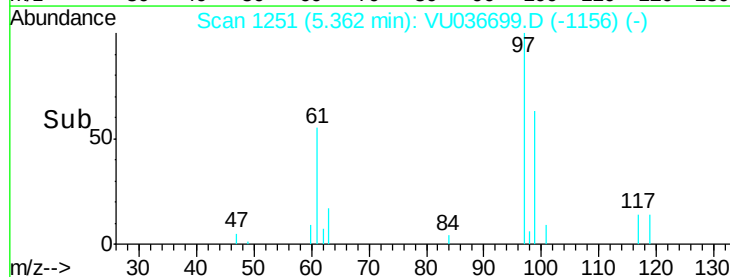
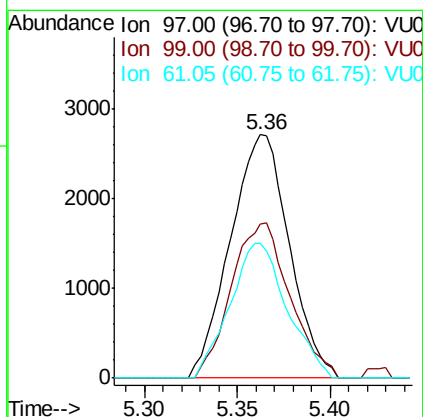
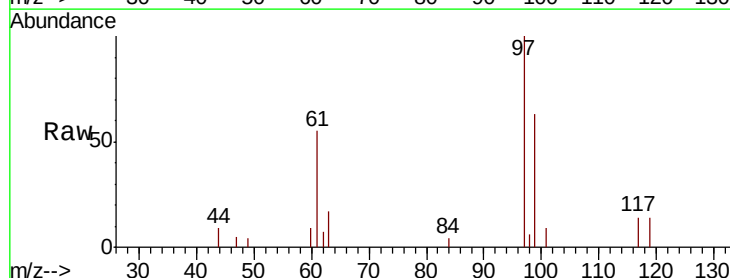
Instrument :
MSVOA_U
ClientSampleId :
MDL02

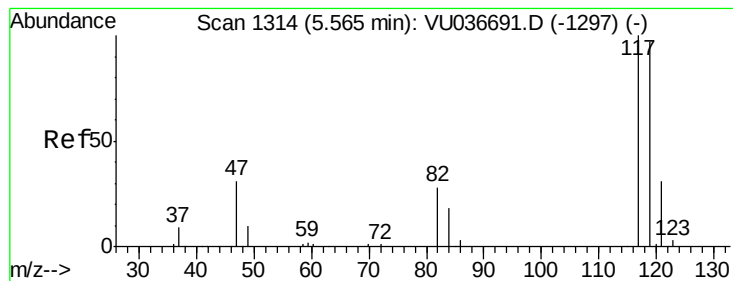
Tot Ion: 56 Resp: 6839
Ion Ratio Lower Upper
56 100
69 33.0 25.0 37.4
84 91.0 68.2 102.2



#30
1,1,1-Trichloroethane
Concen: 2.335 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.01 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

Tgt Ion: 97 Resp: 5972
Ion Ratio Lower Upper
97 100
99 63.3 50.9 76.3
61 53.8 40.2 60.2





#31

Carbon tetrachloride

Concen: 2.223 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

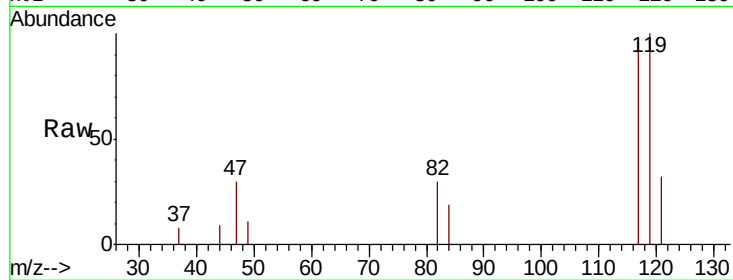
MDL02

Tot Ion:117 Resp: 4603

Ion Ratio Lower Upper

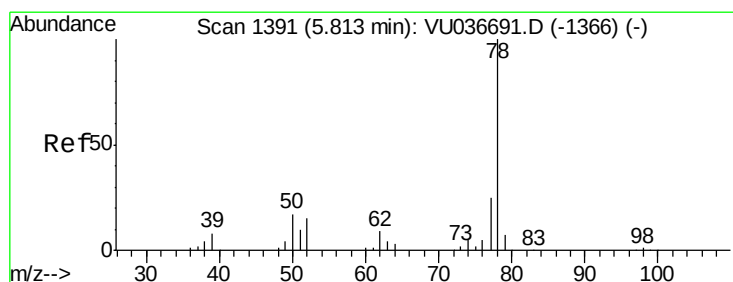
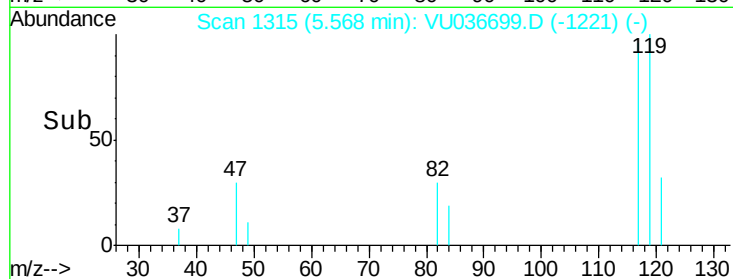
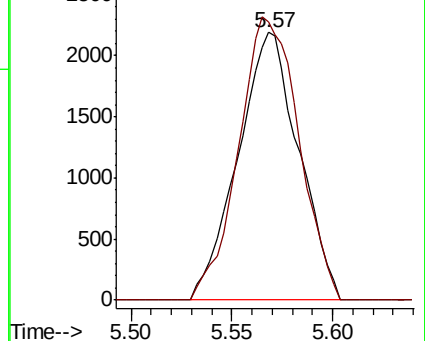
117 100

119 105.0 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.358 ug/L

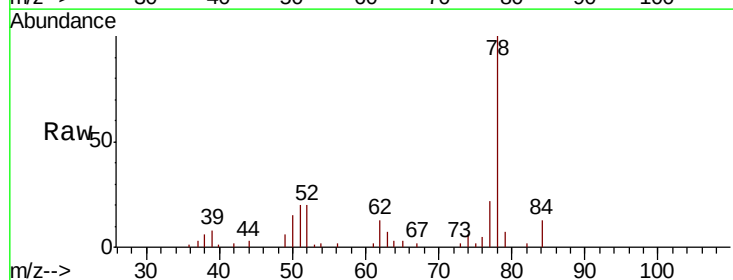
RT: 5.82 min Scan# 1393

Delta R.T. 0.01 min

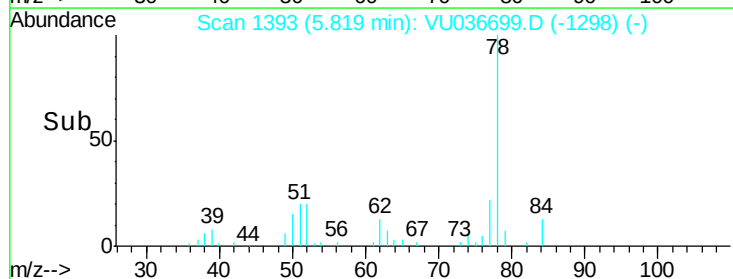
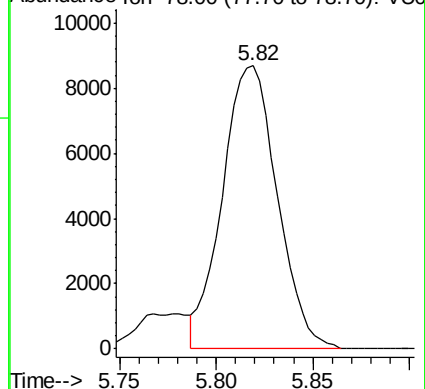
Lab File: VU036699.D

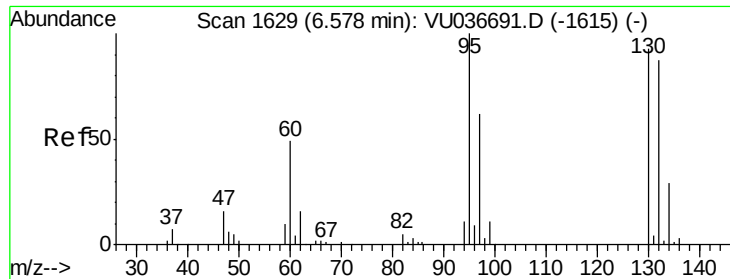
Acq: 07 Feb 2020 13:36

Tgt Ion: 78 Resp: 17168



Abundance Ion 78.00 (77.70 to 78.70): VU0

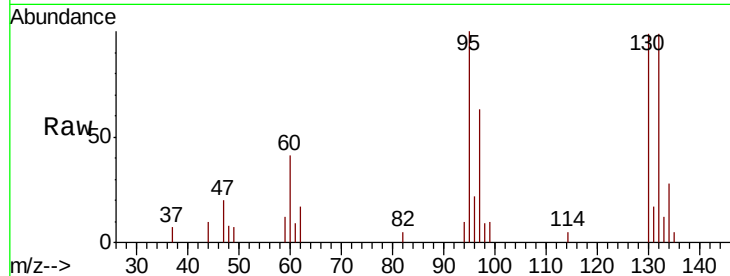




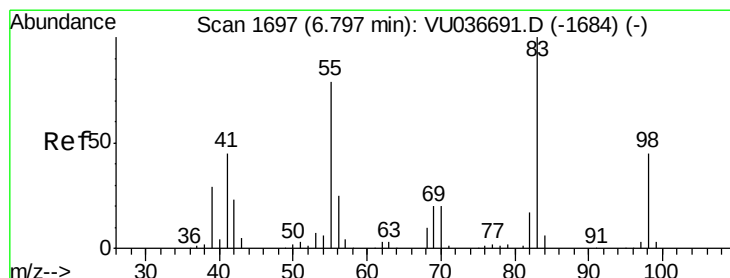
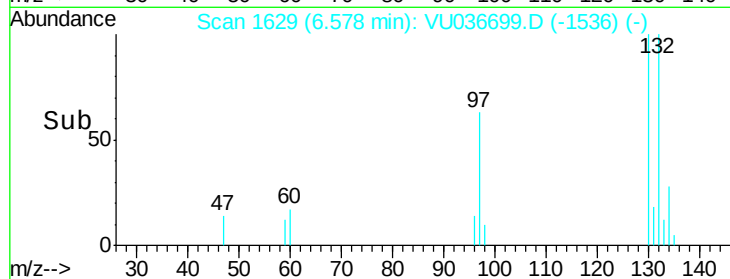
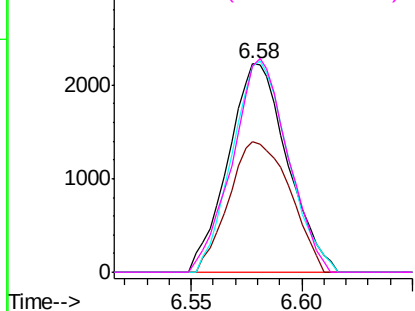
#34
 Trichloroethene
 Concen: 2.303 ug/L
 RT: 6.58 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 95 Resp: 4148
 Ion Ratio Lower Upper
 95 100
 97 62.6 44.5 82.7
 132 99.0 59.6 110.8
 130 98.9 65.0 120.8

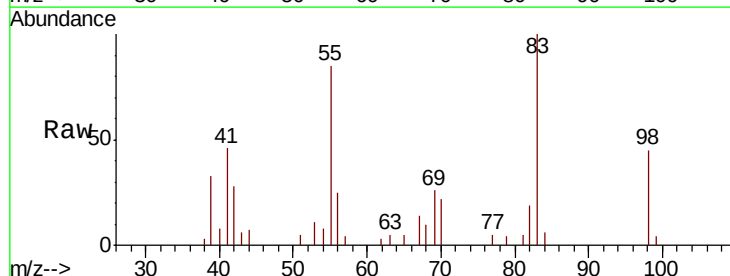


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

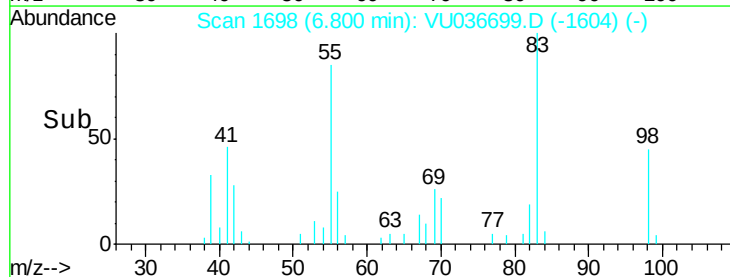
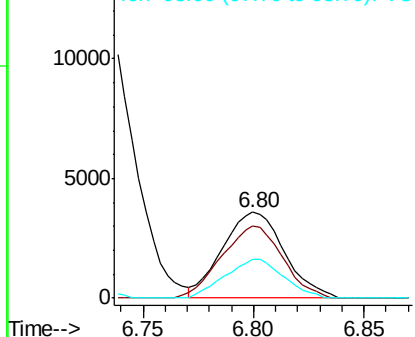


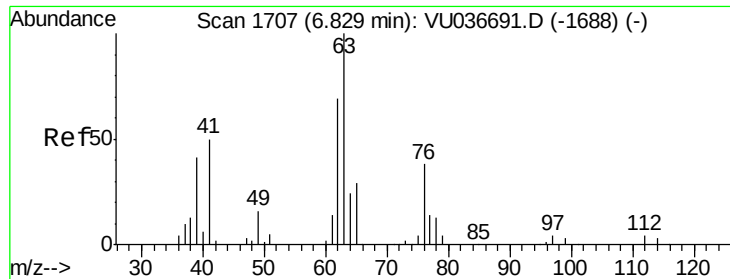
#35
 Methylcyclohexane
 Concen: 2.203 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion: 83 Resp: 6988
 Ion Ratio Lower Upper
 83 100
 55 83.0 61.2 91.8
 98 42.8 35.4 53.0



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

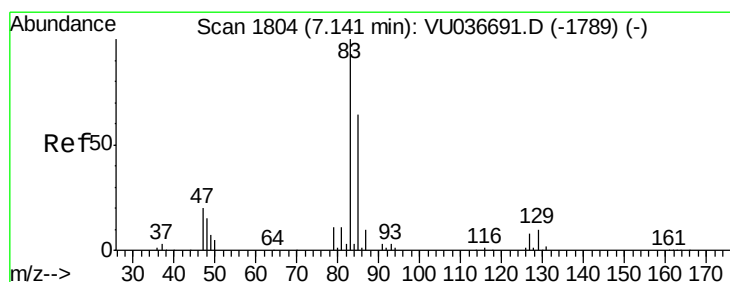
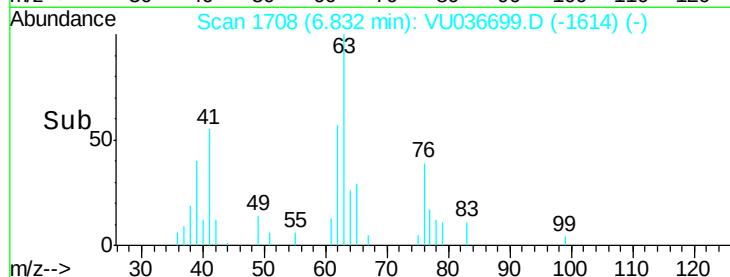
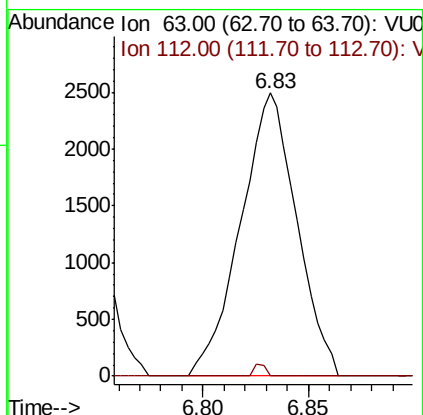
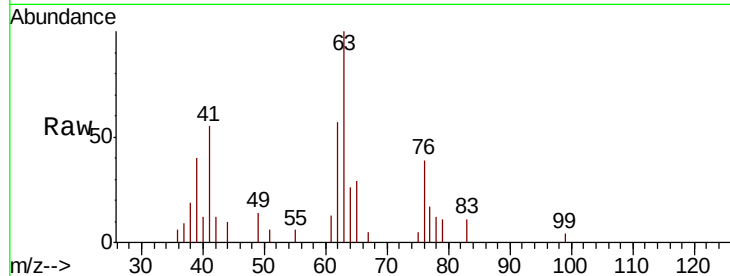




#37
 1,2-Dichloropropane
 Concen: 2.347 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

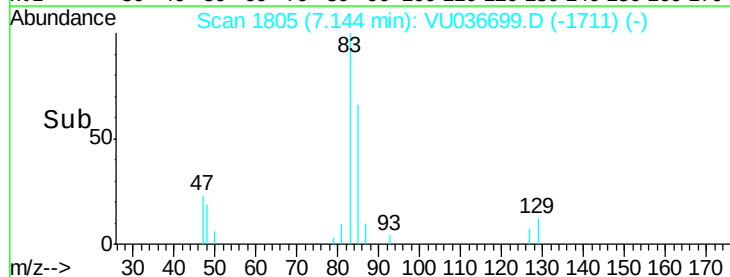
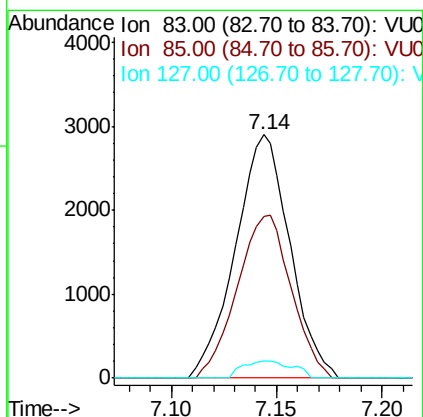
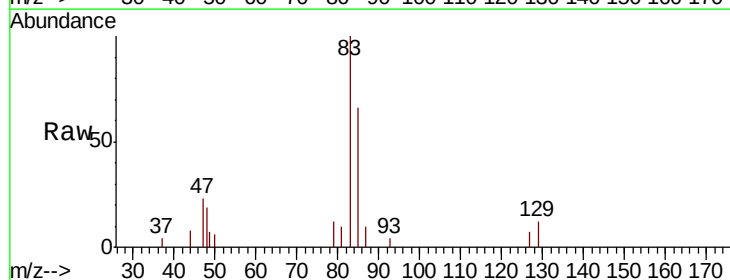
Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

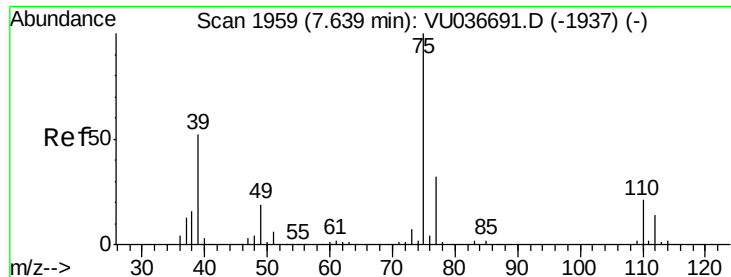
Tot Ion: 63 Resp: 4609
 Ion Ratio Lower Upper
 63 100
 112 0.9 3.1 4.7#



#38
 Bromodichloromethane
 Concen: 2.176 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion: 83 Resp: 5193
 Ion Ratio Lower Upper
 83 100
 85 66.3 43.9 81.5
 127 6.9 6.0 9.0

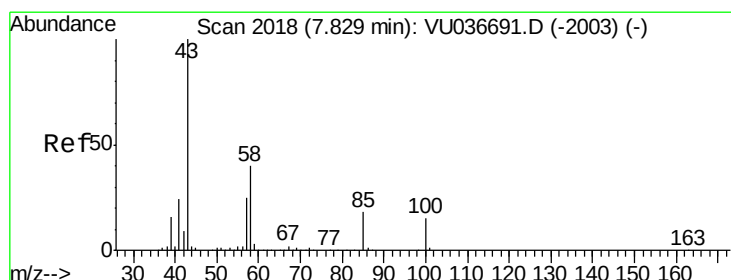
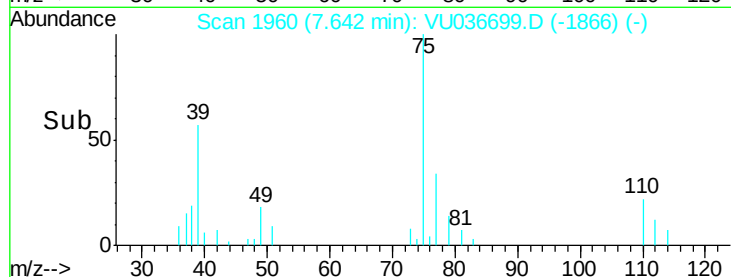
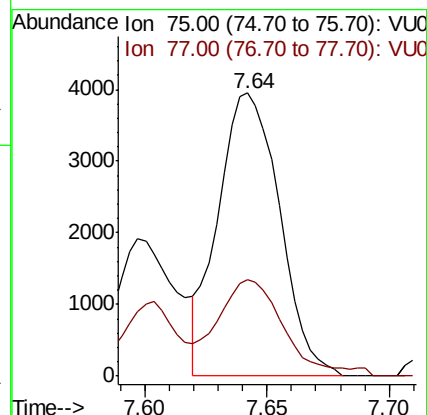
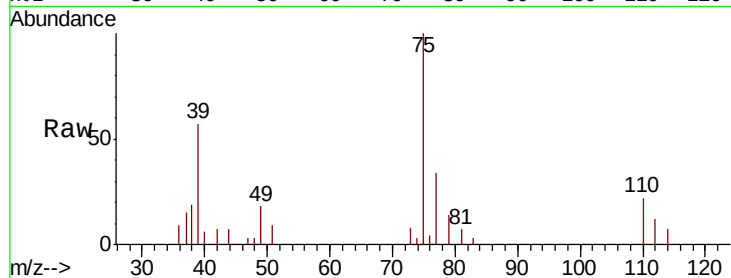




#39
 cis-1,3-Dichloropropene
 Concen: 2.213 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

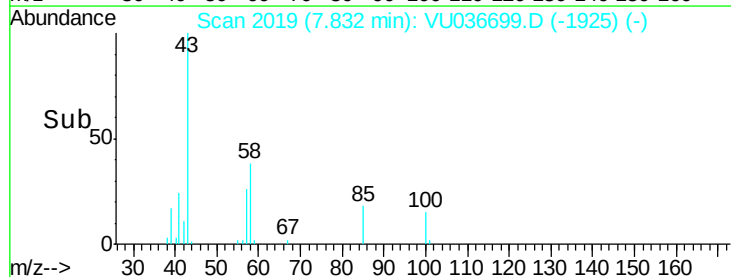
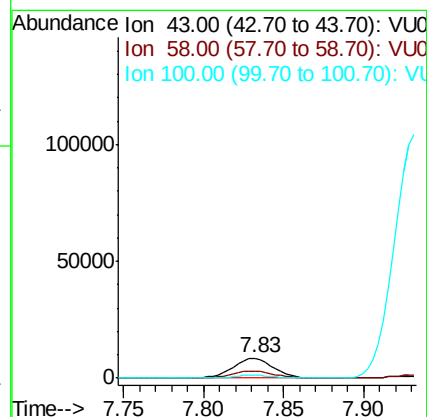
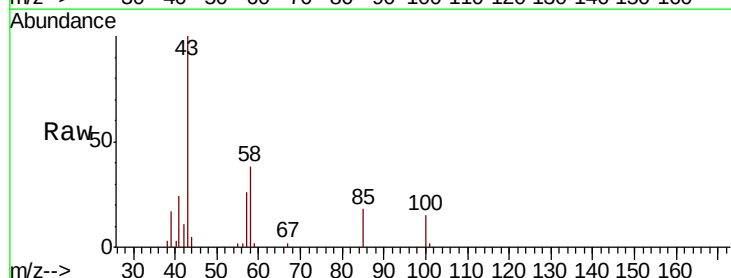
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

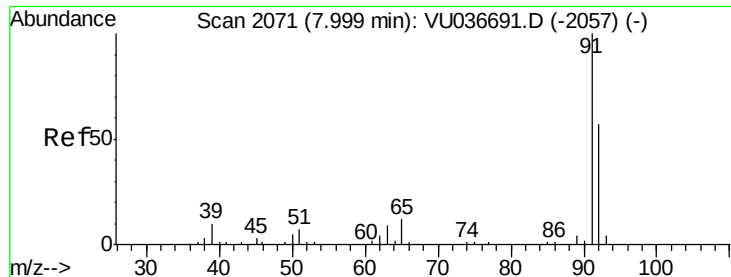
Tot Ion: 75 Resp: 6943
 Ion Ratio Lower Upper
 75 100
 77 34.1 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 4.684 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion: 43 Resp: 14532
 Ion Ratio Lower Upper
 43 100
 58 39.0 31.0 46.6
 100 13.2 11.4 17.2





#42

Toluene

Concen: 2.484 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

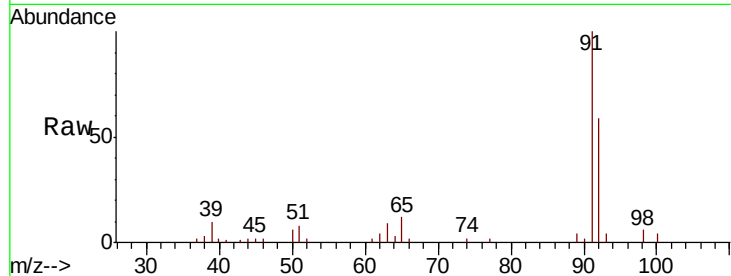
MDL02

Tot Ion: 91 Resp: 19550

Ion Ratio Lower Upper

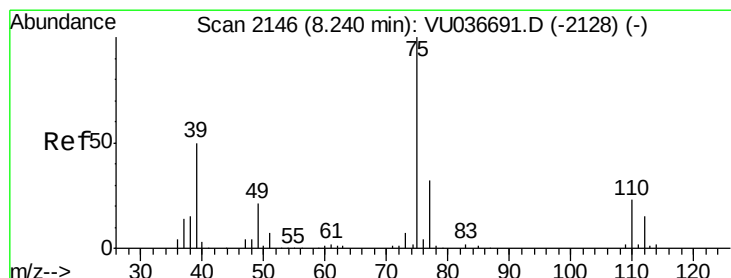
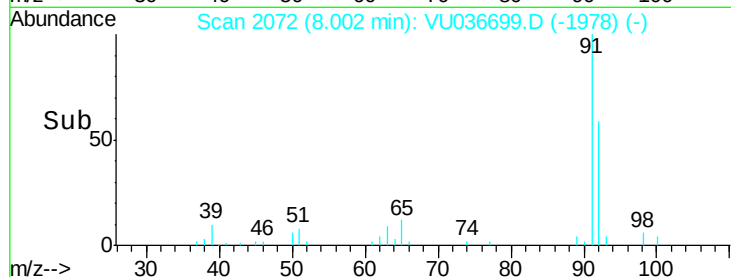
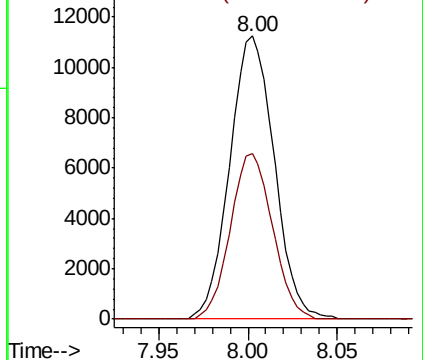
91 100

92 58.7 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 2.364 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036699.D

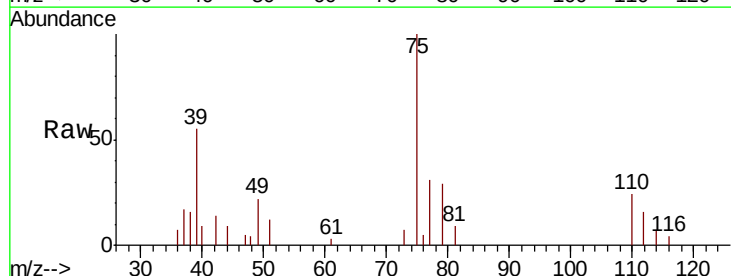
Acq: 07 Feb 2020 13:36

Tgt Ion: 75 Resp: 6480

Ion Ratio Lower Upper

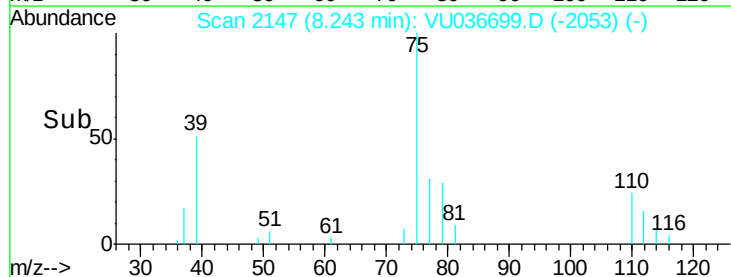
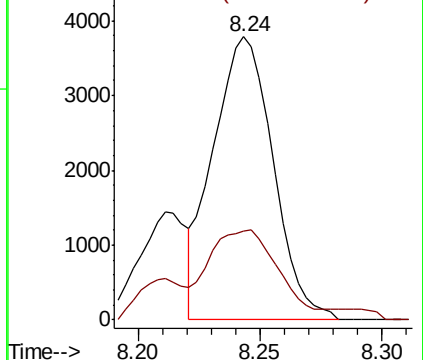
75 100

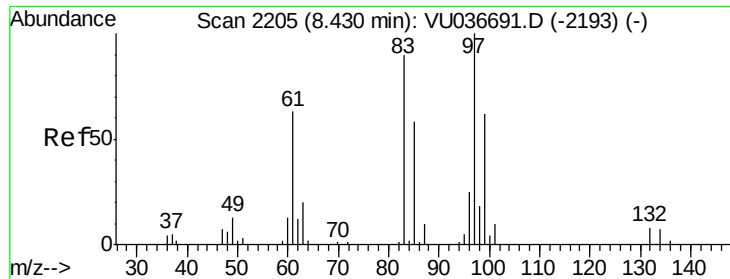
77 31.3 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

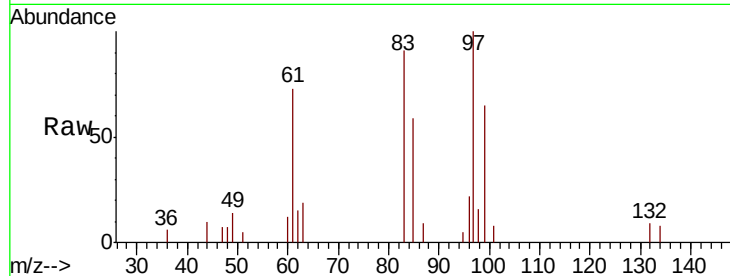




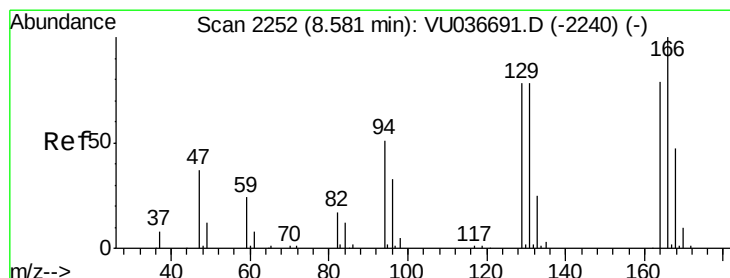
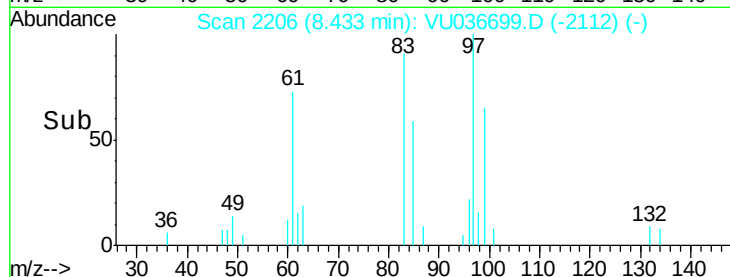
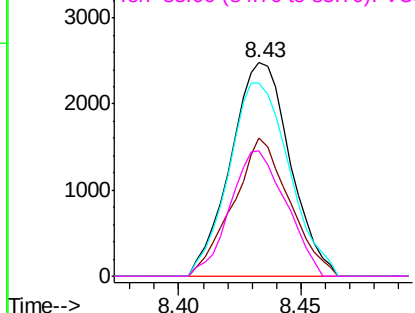
#45
 1,1,2-Trichloroethane
 Concen: 2.341 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:	97	Resp:	4194
Ion	Ratio	Lower	Upper
97	100		
99	64.7	42.6	79.0
83	90.8	61.1	113.5
85	58.5	40.4	75.0

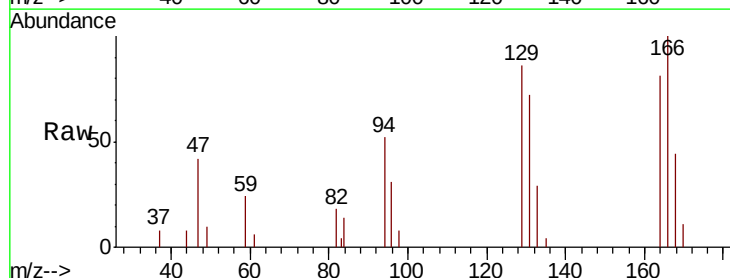


Abundance Ion 97.00 (96.70 to 97.70): VU036699.D (-2193) (-)
 Ion 99.00 (98.70 to 99.70): VU036699.D (-2193) (-)
 Ion 83.00 (82.70 to 83.70): VU036699.D (-2193) (-)
 Ion 85.00 (84.70 to 85.70): VU036699.D (-2193) (-)

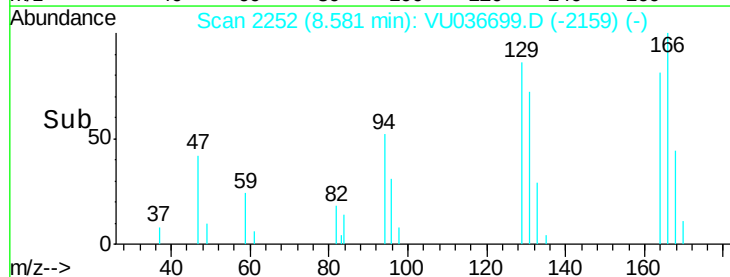
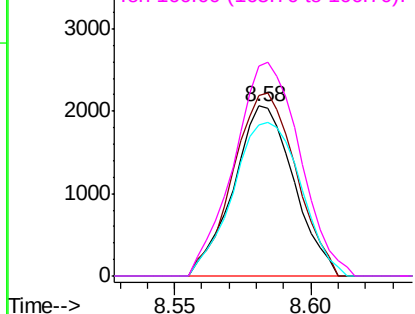


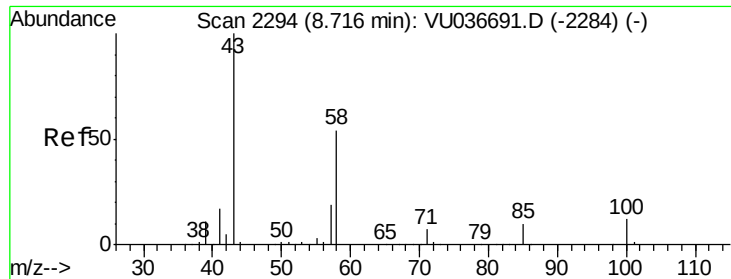
#46
 Tetrachloroethene
 Concen: 2.513 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion:	164	Resp:	3176
Ion	Ratio	Lower	Upper
164	100		
129	106.0	71.0	131.9
131	89.2	66.6	123.6
166	123.6	86.4	160.4



Abundance Ion 164.00 (163.70 to 164.70): VU036699.D (-2240) (-)
 Ion 129.00 (128.70 to 129.70): VU036699.D (-2240) (-)
 Ion 131.00 (130.70 to 131.70): VU036699.D (-2240) (-)
 Ion 166.00 (165.70 to 166.70): VU036699.D (-2240) (-)

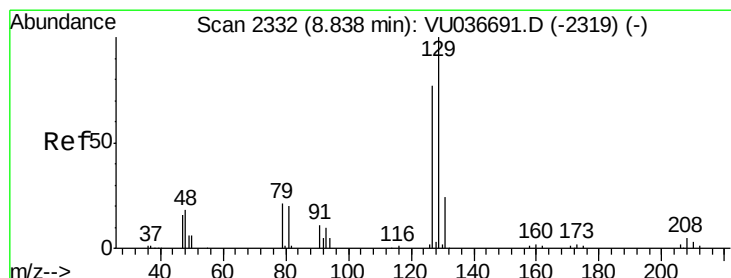
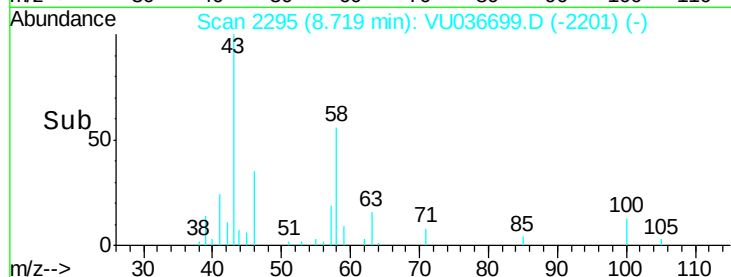
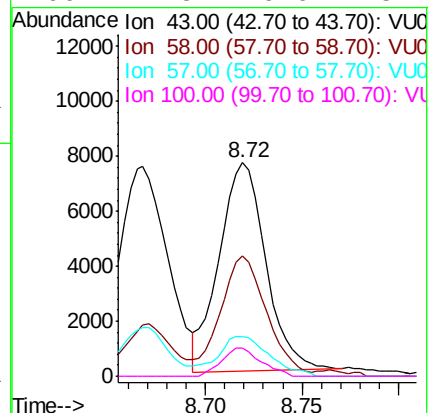
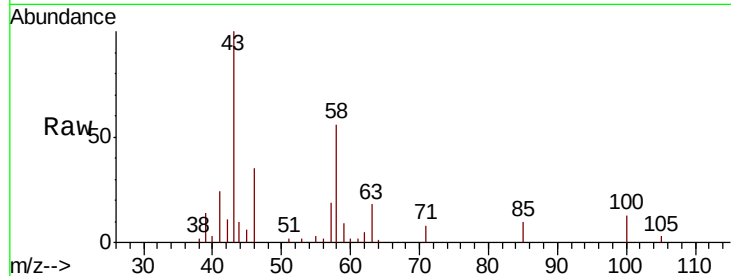




#48
2-Hexanone
Concen: 5.030 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

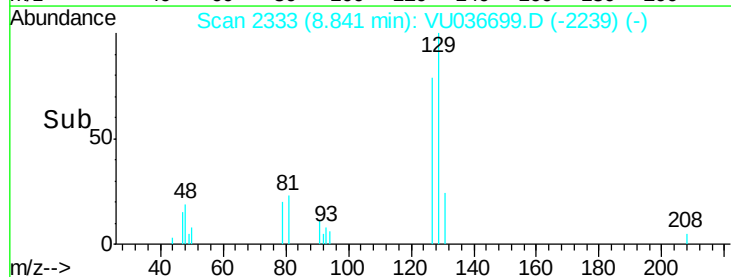
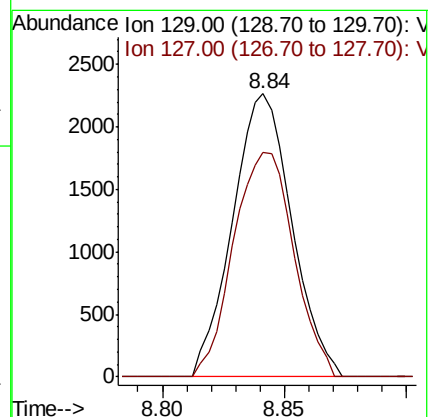
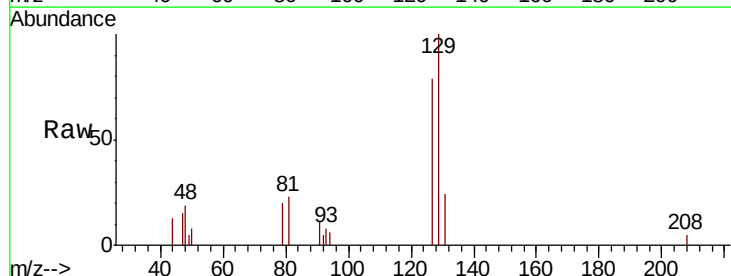
Instrument :
MSVOA_U
ClientSampleId :
MDL02

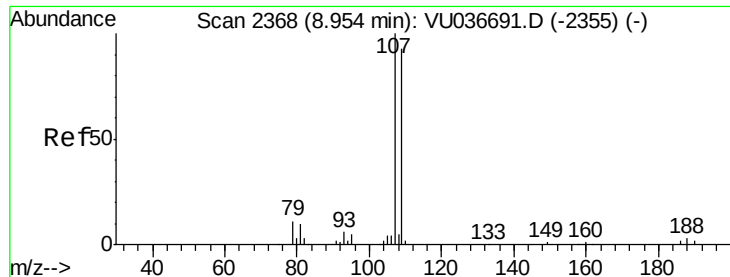
Tot Ion: 43 Resp: 12731
Ion Ratio Lower Upper
43 100
58 56.9 43.6 65.4
57 21.8 15.5 23.3
100 11.3 9.0 13.4



#49
Dibromochloromethane
Concen: 2.176 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036699.D
Acq: 07 Feb 2020 13:36

Tgt Ion: 129 Resp: 3813
Ion Ratio Lower Upper
129 100
127 79.5 53.6 99.6

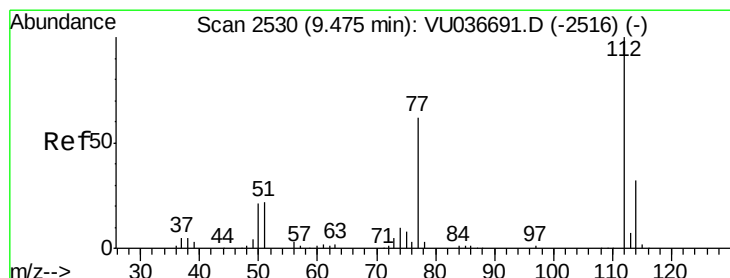
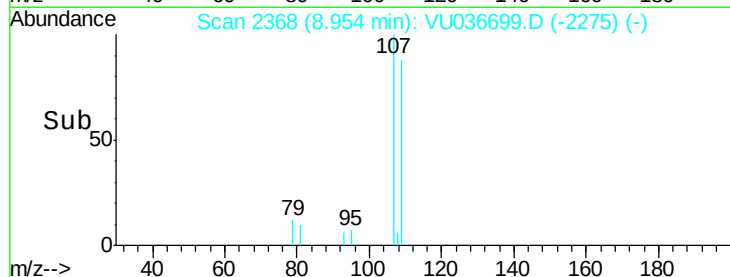
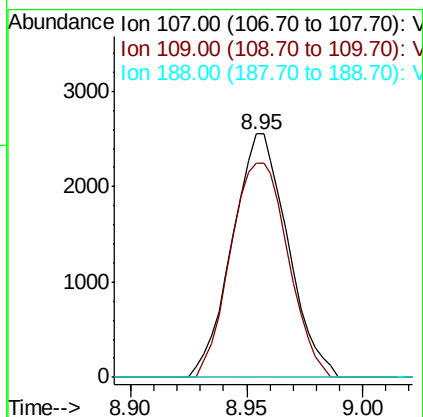
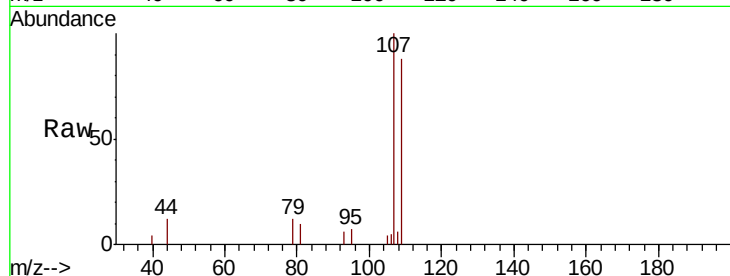




#50
 1,2-Dibromoethane
 Concen: 2.260 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

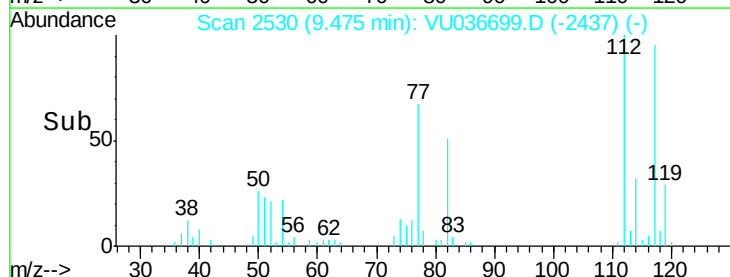
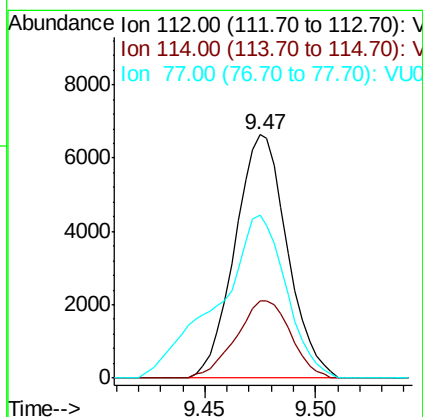
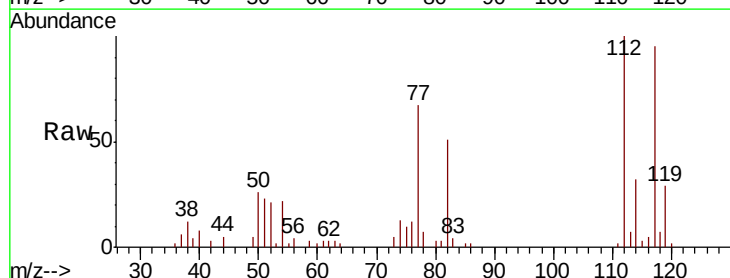
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

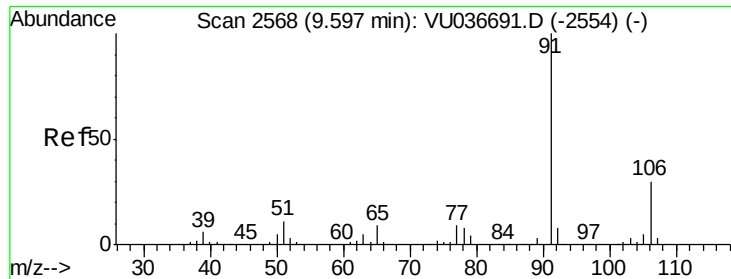
Tot Ion:107 Resp: 4254
 Ion Ratio Lower Upper
 107 100
 109 88.1 65.8 122.2
 188 0.0 2.5 3.7#



#51
 Chlorobenzene
 Concen: 2.306 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion:112 Resp: 10926
 Ion Ratio Lower Upper
 112 100
 114 31.6 22.7 42.1
 77 67.0 50.6 75.8





#52

Ethylbenzene

Concen: 2.206 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

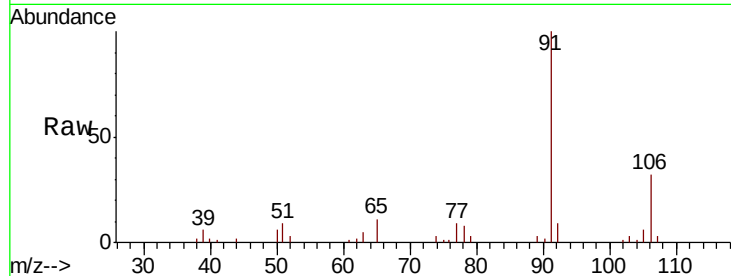
MDL02

Tot Ion: 91 Resp: 19076

Ion Ratio Lower Upper

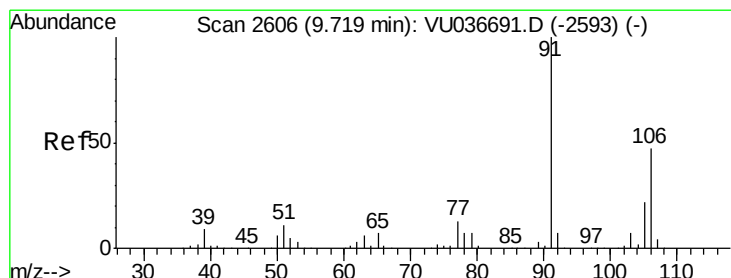
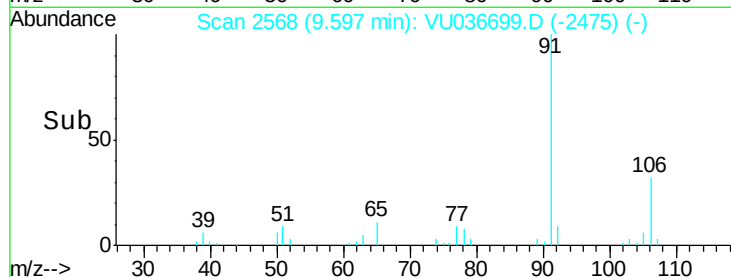
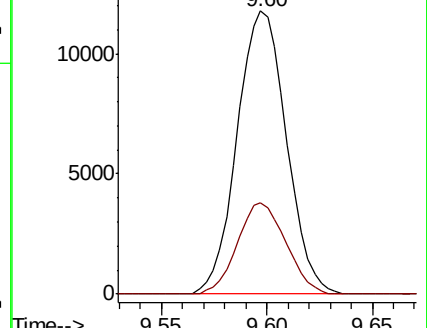
91 100

106 32.5 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036699.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU036699.D (-2554) (-)



#53

m,p-Xylene

Concen: 2.275 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036699.D

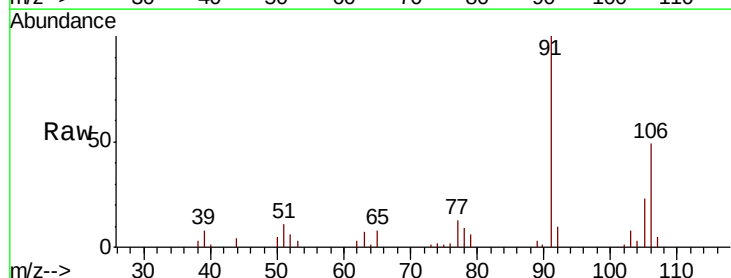
Acq: 07 Feb 2020 13:36

Tgt Ion: 106 Resp: 7257

Ion Ratio Lower Upper

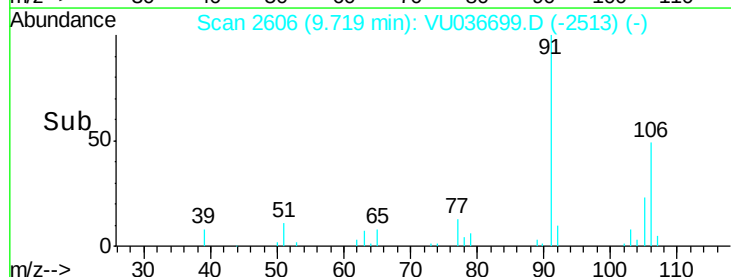
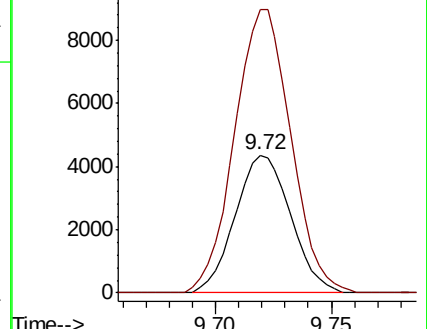
106 100

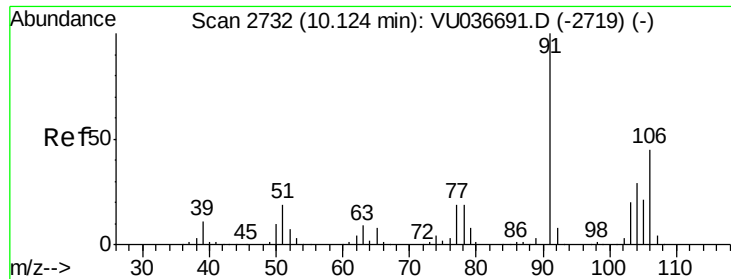
91 205.0 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036699.D (-2593) (-)

Ion 91.00 (90.70 to 91.70): VU036699.D (-2593) (-)





#54

o-xylene

Concen: 2.278 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

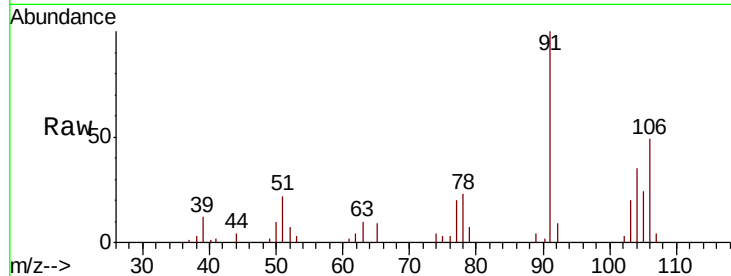
MDL02

Tot Ion:106 Resp: 7199

Ion Ratio Lower Upper

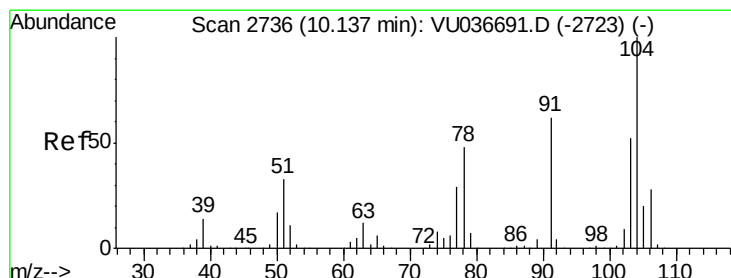
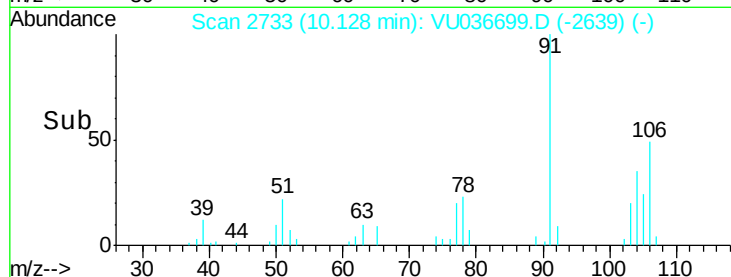
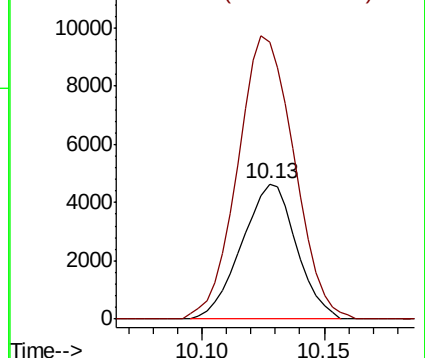
106 100

91 204.6 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.129 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036699.D

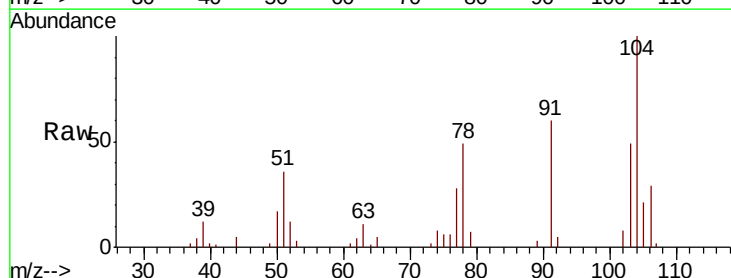
Acq: 07 Feb 2020 13:36

Tgt Ion:104 Resp: 11211

Ion Ratio Lower Upper

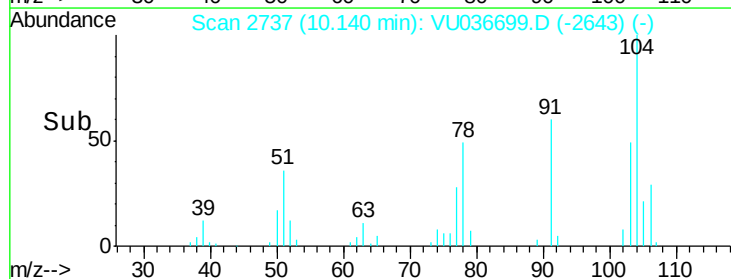
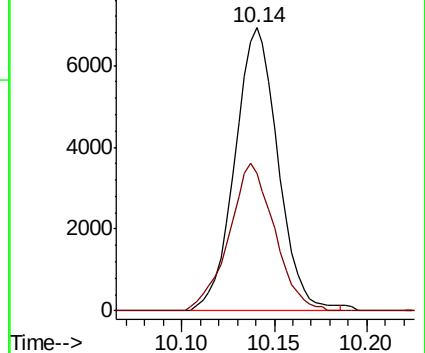
104 100

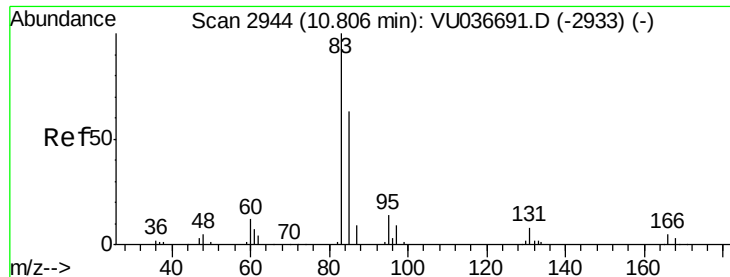
78 48.7 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

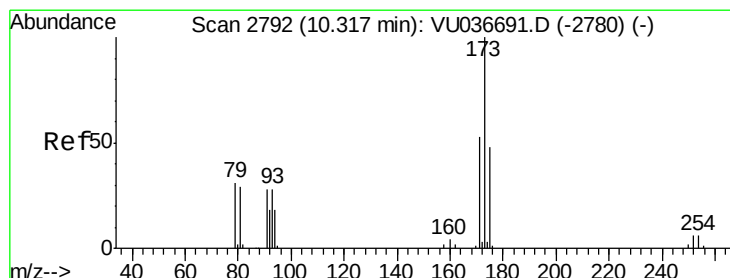
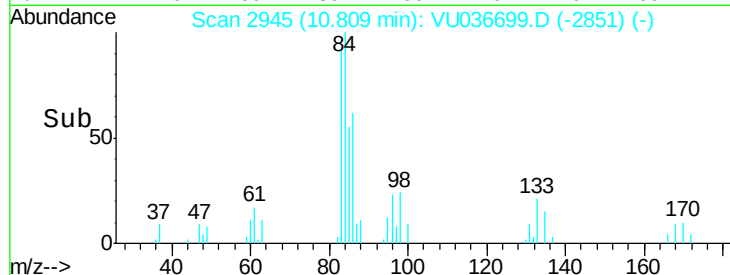
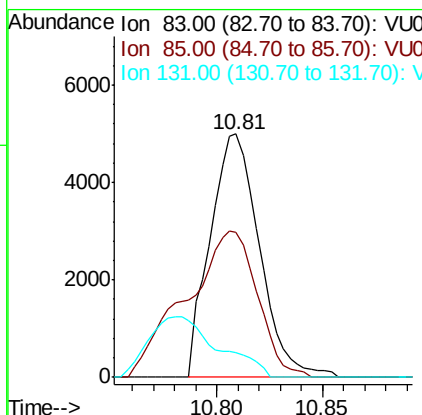
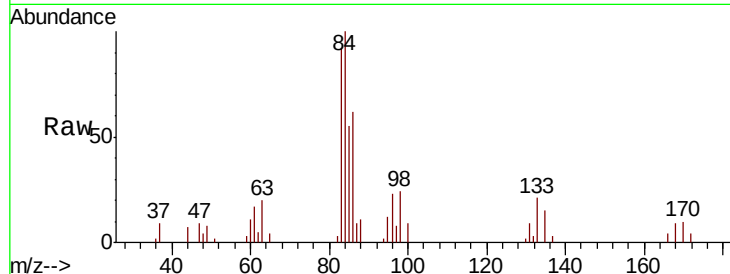




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.513 ug/L
 RT: 10.81 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

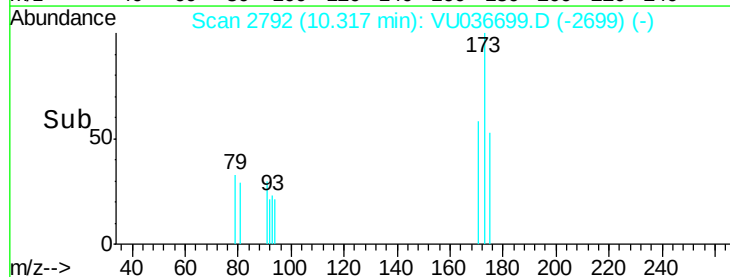
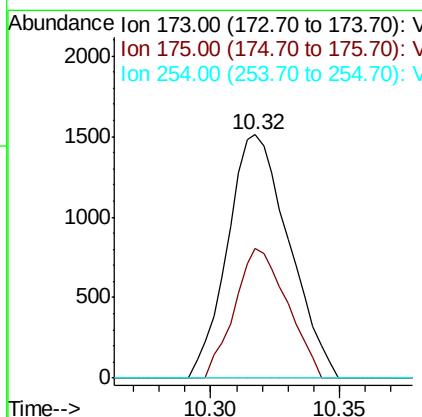
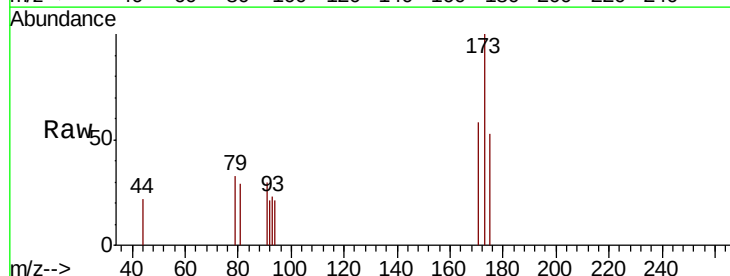
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

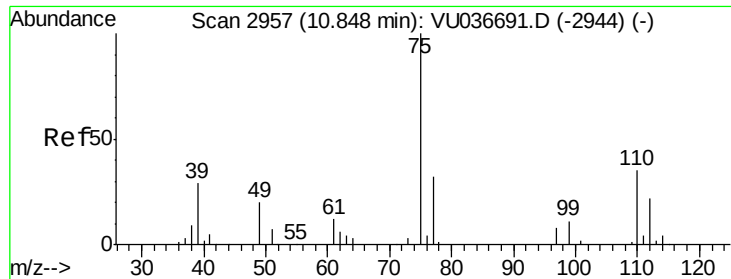
Tot Ion: 83 Resp: 8113
 Ion Ratio Lower Upper
 83 100
 85 59.8 44.7 82.9
 131 10.2 6.8 10.2#



#59
 Bromoform
 Concen: 2.185 ug/L
 RT: 10.32 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion: 173 Resp: 2509
 Ion Ratio Lower Upper
 173 100
 175 45.4 38.2 57.4
 254 0.0 4.8 7.2#

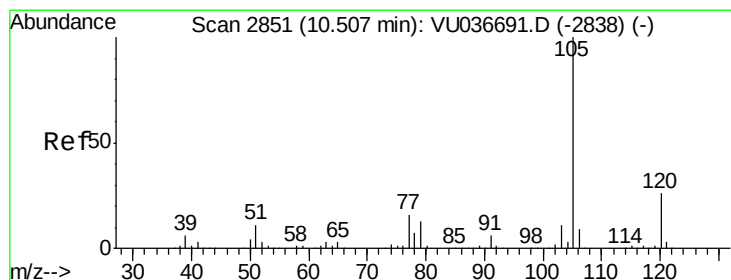
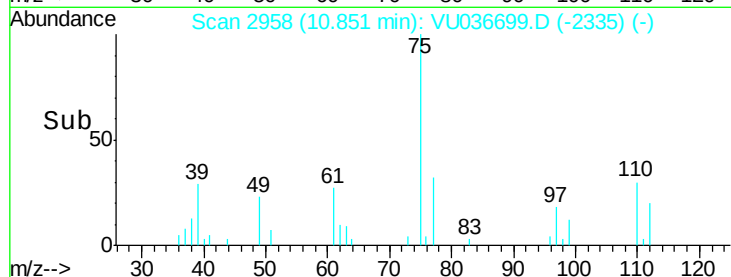
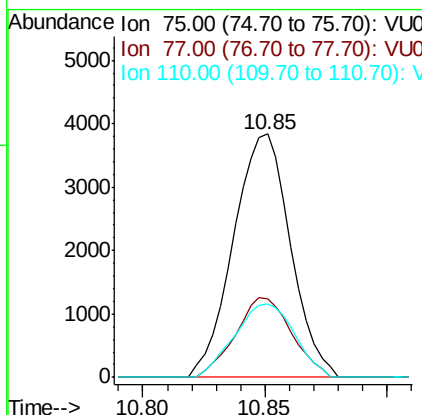
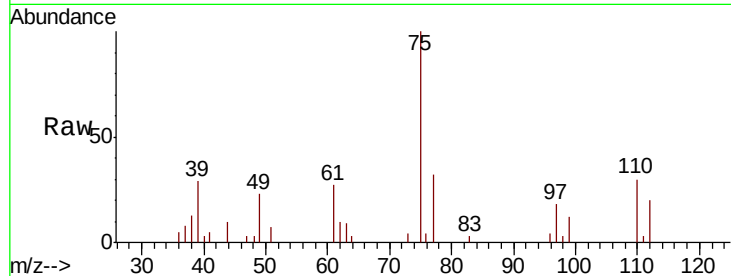




#60
 1,2,3-Trichloropropane
 Concen: 2.541 ug/L
 RT: 10.85 min Scan# 2958
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

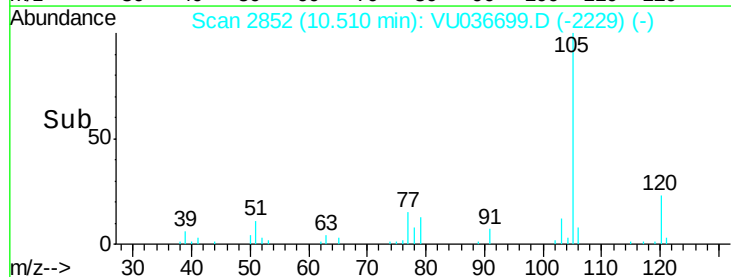
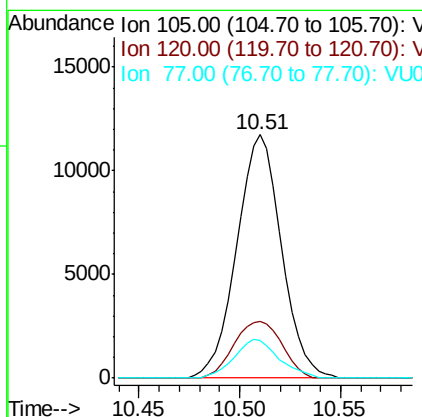
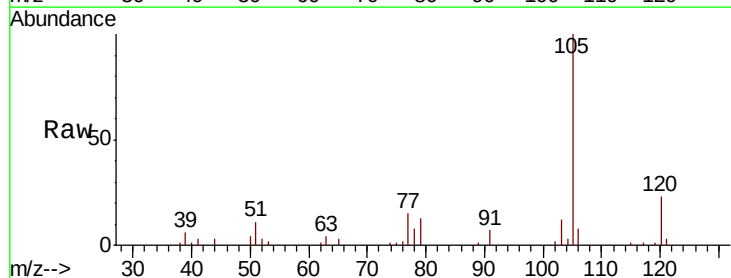
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

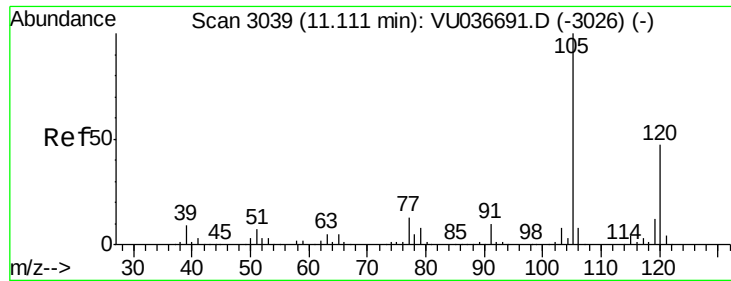
Tot Ion: 75 Resp: 6212
 Ion Ratio Lower Upper
 75 100
 77 32.2 26.1 39.1
 110 32.0 26.9 40.3



#61
 Isopropylbenzene
 Concen: 2.355 ug/L
 RT: 10.51 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion: 105 Resp: 18225
 Ion Ratio Lower Upper
 105 100
 120 25.0 20.2 30.4
 77 15.8 13.0 19.6

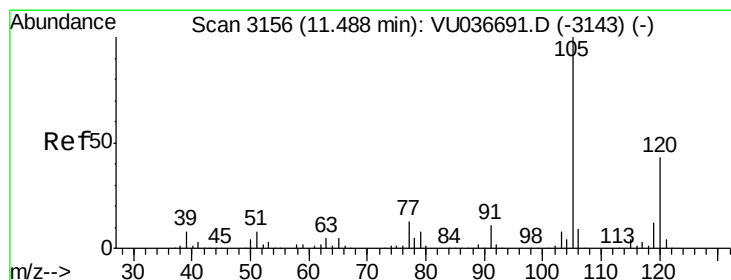
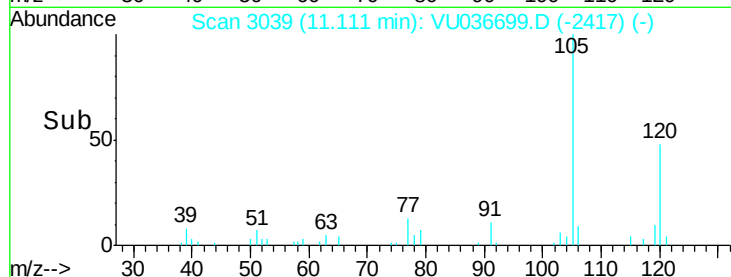
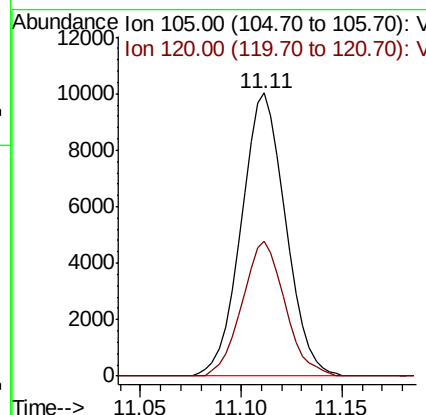
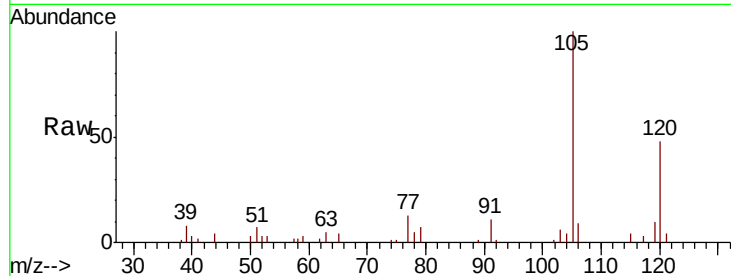




#62
 1,3,5-Trimethylbenzene
 Concen: 2.330 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

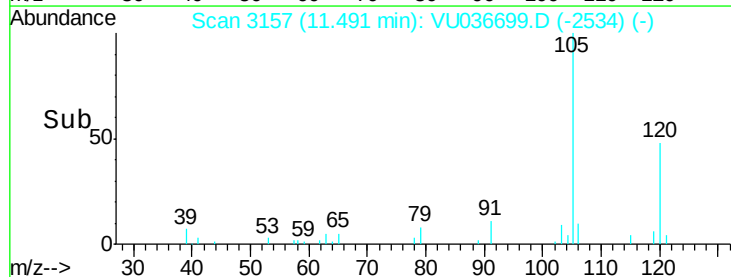
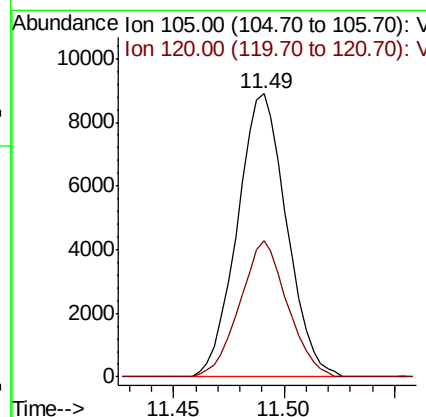
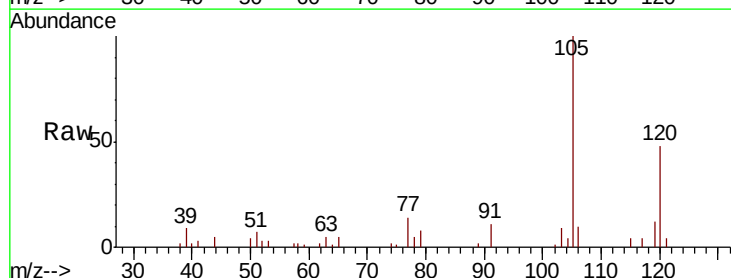
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL02

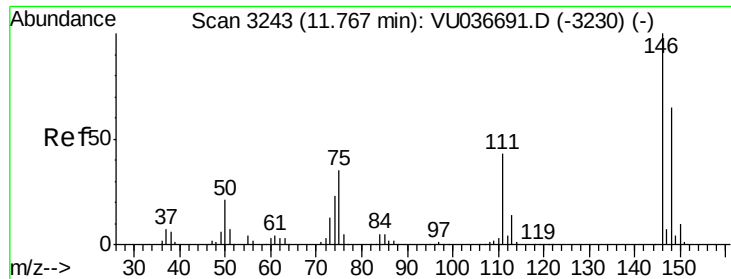
Tot Ion:105 Resp: 15458
 Ion Ratio Lower Upper
 105 100
 120 45.9 37.1 55.7



#63
 1,2,4-Trimethylbenzene
 Concen: 2.087 ug/L
 RT: 11.49 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion:105 Resp: 13830
 Ion Ratio Lower Upper
 105 100
 120 46.5 34.7 52.1

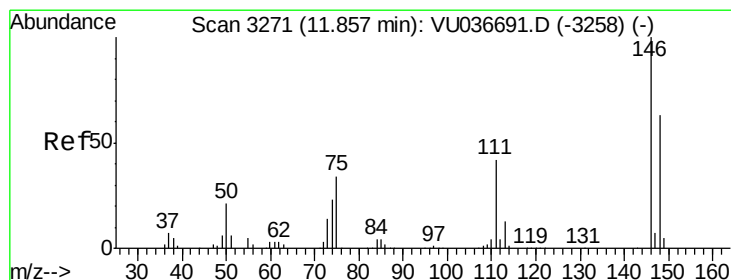
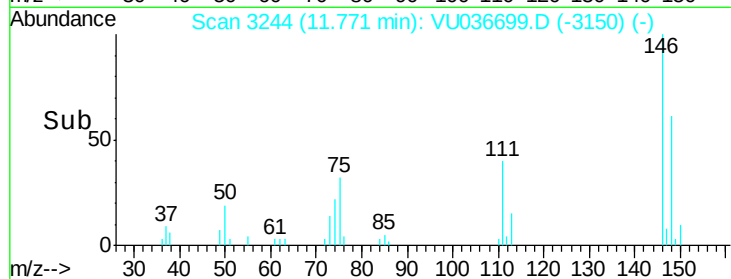
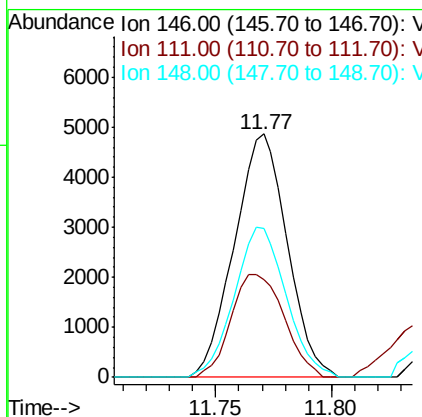
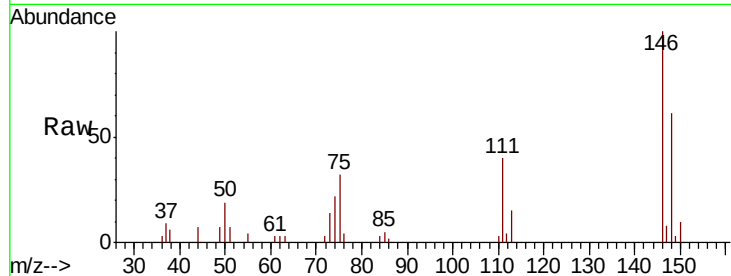




#64
 1,3-Dichlorobenzene
 Concen: 2.369 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

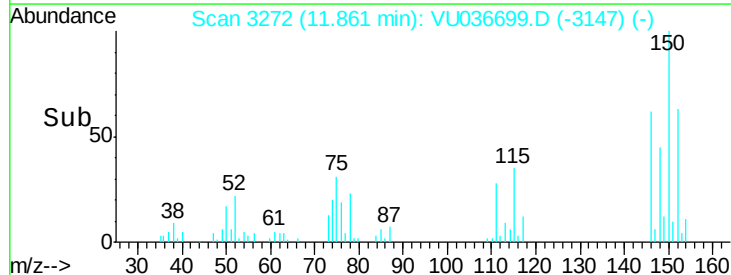
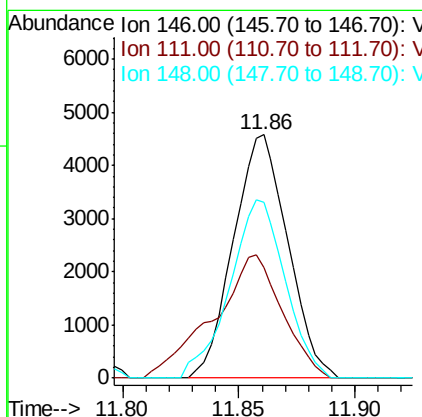
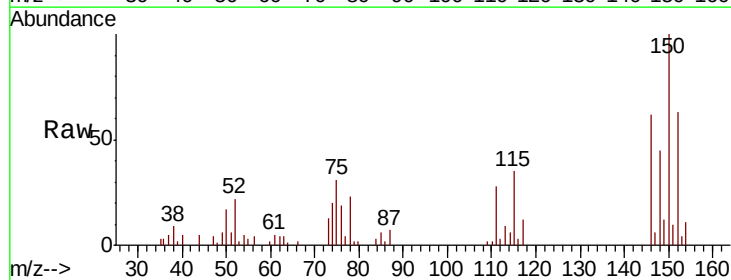
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

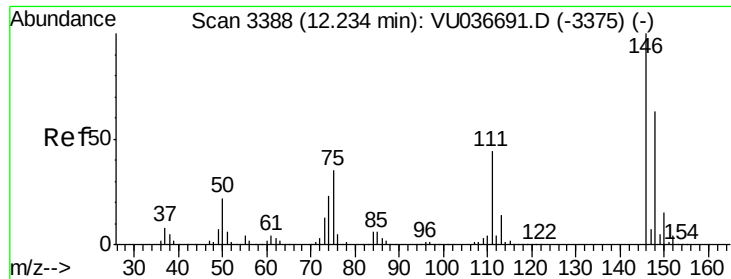
Tot Ion:146 Resp: 7709
 Ion Ratio Lower Upper
 146 100
 111 40.1 30.4 56.4
 148 61.3 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 2.272 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion:146 Resp: 7443
 Ion Ratio Lower Upper
 146 100
 111 45.6 29.3 54.3
 148 72.3 44.8 83.2

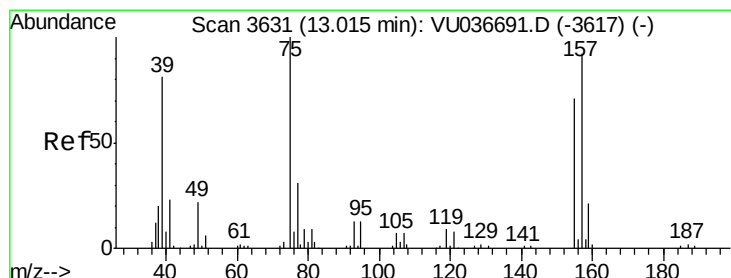
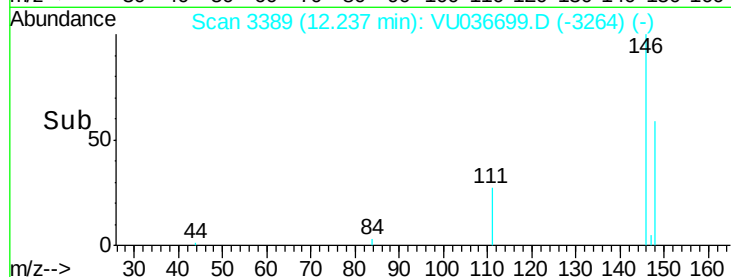
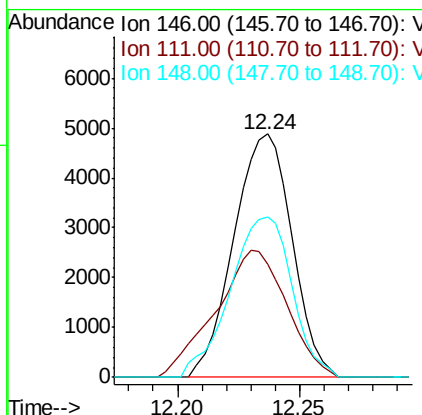
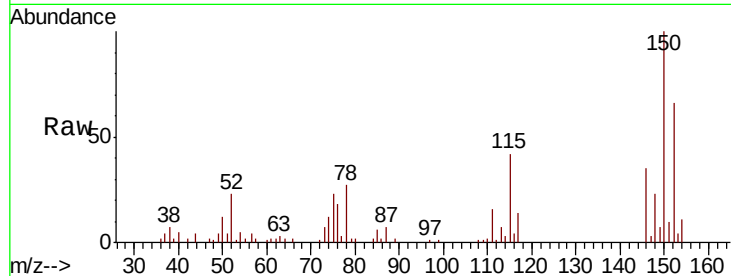




#67
 1,2-Dichlorobenzene
 Concen: 2.450 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

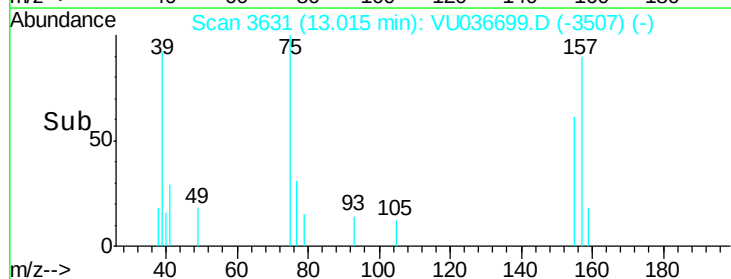
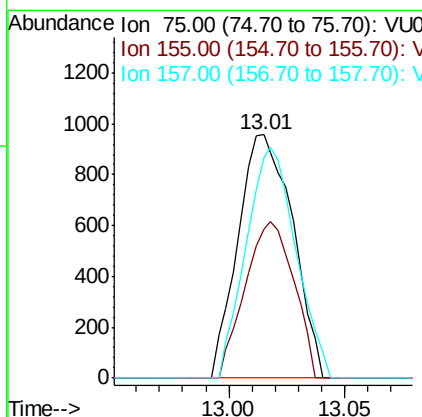
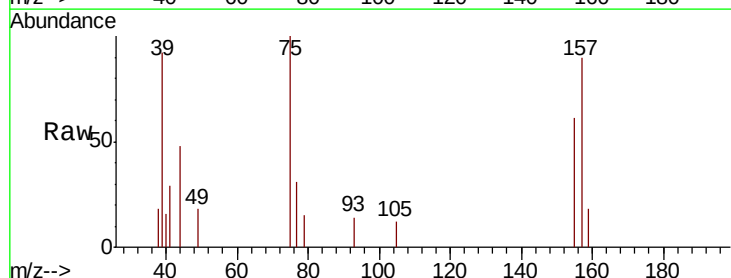
Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

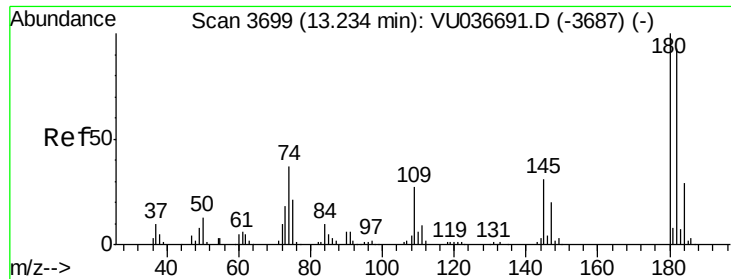
Tot Ion:146 Resp: 8072
 Ion Ratio Lower Upper
 146 100
 111 46.3 35.4 53.0
 148 65.9 50.4 75.6



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.241 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion: 75 Resp: 1566
 Ion Ratio Lower Upper
 75 100
 155 61.1 58.7 88.1
 157 90.4 77.8 116.6

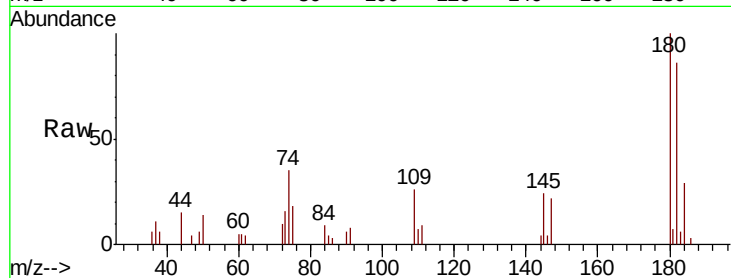




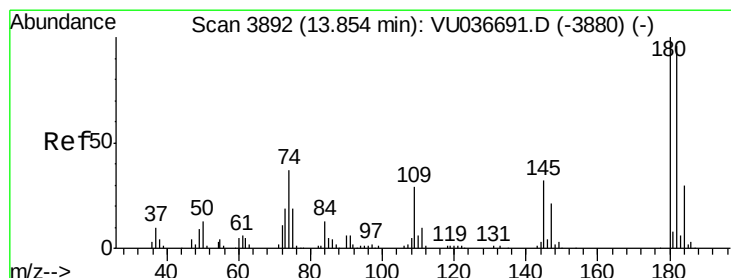
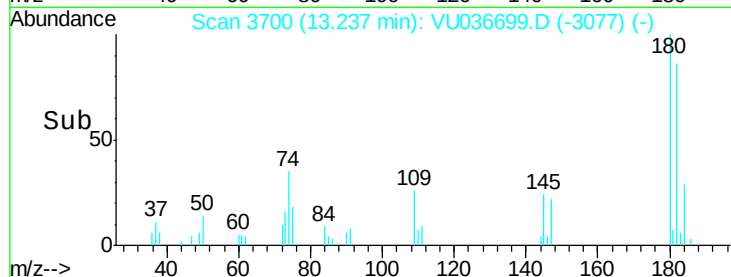
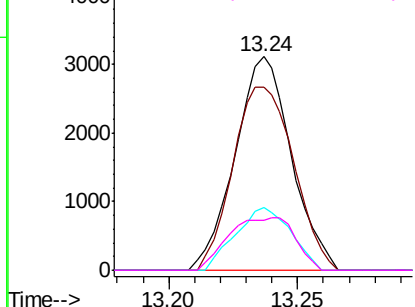
#69
 1,3,5-Trichlorobenzene
 Concen: 2.108 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:180 Resp: 4757
 Ion Ratio Lower Upper
 180 100
 182 92.5 76.2 114.4
 184 28.8 23.8 35.6
 145 29.1 25.0 37.6

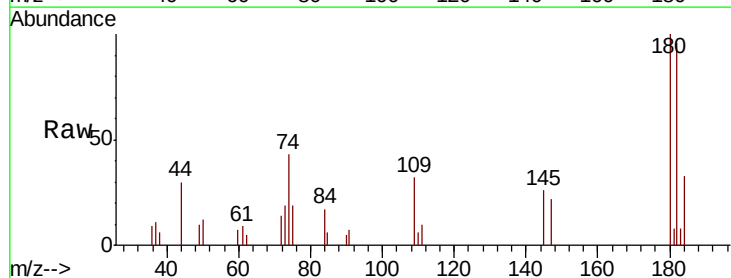


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

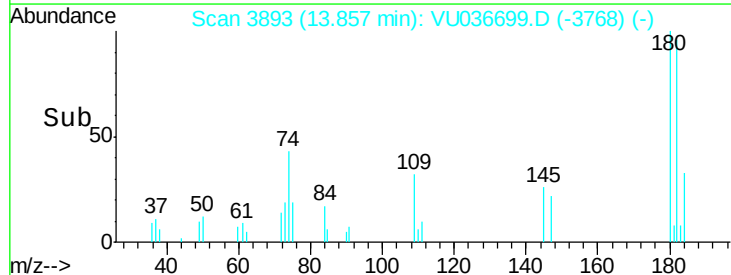
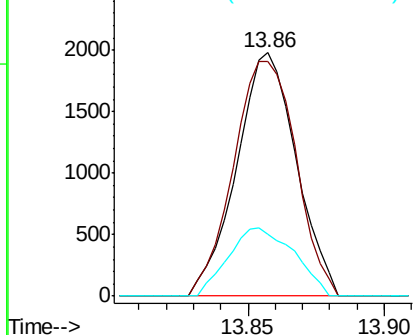


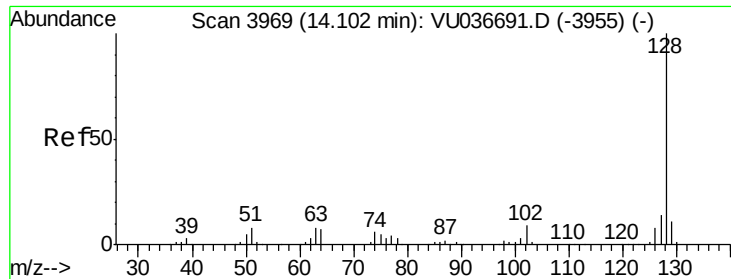
#70
 1,2,4-trichlorobenzene
 Concen: 1.595 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036699.D
 Acq: 07 Feb 2020 13:36

Tgt Ion:180 Resp: 3001
 Ion Ratio Lower Upper
 180 100
 182 101.5 76.1 114.1
 145 30.9 25.7 38.5



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





#71

Naphthalene

Concen: 1.519 ug/L

RT: 14.10 min Scan# 3969

Delta R.T. -0.00 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

Instrument :

MSVOA_U

ClientSampleId :

MDL02

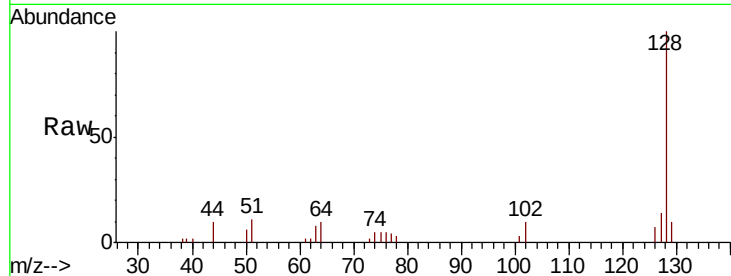
Tot Ion:128 Resp: 10076

Ion Ratio Lower Upper

128 100

127 14.4 10.6 16.0

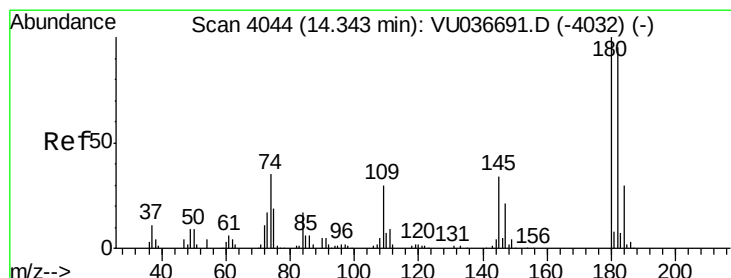
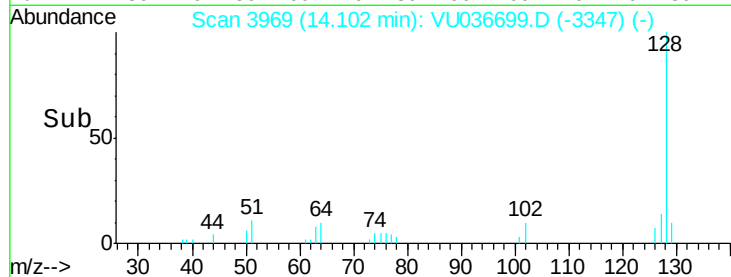
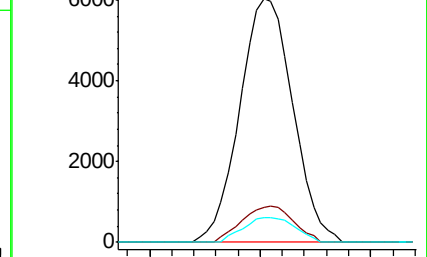
129 9.9 8.5 12.7



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



#72

1,2,3-Trichlorobenzene

Concen: 1.581 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.01 min

Lab File: VU036699.D

Acq: 07 Feb 2020 13:36

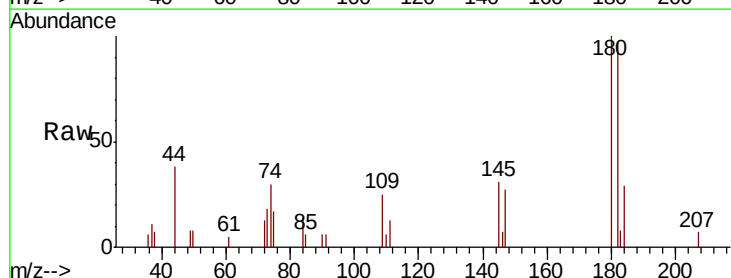
Tgt Ion:180 Resp: 2964

Ion Ratio Lower Upper

180 100

182 103.4 76.8 115.2

145 38.9 27.5 41.3



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

