

Data File : VU033504.D
Acq On : 30 Jul 2019 19:57
Operator : JC/SP
Sample : MDL04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Quant Time: Jul 31 08:09:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 31 08:02:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	304676	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	301558	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	148400	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	106560	48.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.20%
7) Chloroethane-d5	1.67	69	91241	48.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.02%
11) 1,1-Dichloroethene-d2	2.26	63	147347	36.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.30%
21) 2-Butanone-d5	4.15	46	153711	104.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.77%
24) Chloroform-d	4.62	84	180445	48.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.29	65	118793	50.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.04%
32) Benzene-d6	5.32	84	375901	50.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.58%
36) 1,2-Dichloropropane-d6	6.31	67	117162	50.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.00%
41) Toluene-d8	7.55	98	340590	48.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.24%
43) trans-1,3-Dichloropropene-	7.83	79	56279	48.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.82%
47) 2-Hexanone-d5	8.30	63	111113	99.87	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.87%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	175561	48.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.18%
64) 1,2-Dichlorobenzene-d4	11.85	152	136742	50.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.64%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	6119	2.130 ug/L	99
3) Chloromethane	1.32	50	7319	2.529 ug/L	96
5) Vinyl chloride	1.40	62	7407	2.387 ug/L #	65
6) Bromomethane	1.62	94	4750	1.735 ug/L	95
8) Chloroethane	1.69	64	4193	2.224 ug/L	90
9) Trichlorofluoromethane	1.87	101	9677	2.384 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	5882	2.859 ug/L #	62
12) 1,1-Dichloroethene	2.27	96	5408	2.741 ug/L #	1
13) Acetone	2.31	43	6353	4.232 ug/L	96
14) Carbon disulfide	2.46	76	14445	2.334 ug/L	98
15) Methyl Acetate	2.61	43	5301	2.218 ug/L	96
16) Methylene chloride	2.68	84	5580	2.476 ug/L	96
17) trans-1,2-Dichloroethene	2.97	96	4512	2.183 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	13218	2.097 ug/L	96
19) 1,1-Dichloroethane	3.42	63	8941	2.304 ug/L	94
20) cis-1,2-Dichloroethene	4.20	96	5143	2.217 ug/L	96
22) 2-Butanone	4.25	43	3089	1.724 ug/L	96

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.52	128	2719	2.246	ug/L	94
25) Chloroform	4.65	83	13535	3.315	ug/L	98
27) 1,2-Dichloroethane	5.39	62	7309	2.325	ug/L	99
29) Cyclohexane	4.97	56	6882	2.092	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	7669	2.210	ug/L	97
31) Carbon tetrachloride	5.12	117	6624	2.192	ug/L #	55
33) Benzene	5.37	78	19122	2.198	ug/L	100
34) Trichloroethene	6.17	95	5095	2.220	ug/L	93
35) Methylcyclohexane	6.40	83	6854	1.914	ug/L	96
37) 1,2-Dichloropropane	6.41	63	4840	2.078	ug/L #	95
38) Bromodichloromethane	6.74	83	6666	2.214	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	7594	2.089	ug/L	95
40) 4-Methyl-2-pentanone	7.45	43	12906	4.014	ug/L	97
42) Toluene	7.62	91	20840	2.228	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	7012	2.135	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	5032	2.276	ug/L	90
46) Tetrachloroethene	8.21	164	3722	1.987	ug/L	92
48) 2-Hexanone	8.35	43	10854	4.177	ug/L #	96
49) Dibromochloromethane	8.46	129	5485	2.181	ug/L	93
50) 1,2-Dibromoethane	8.57	107	5169	2.111	ug/L #	89
51) Chlorobenzene	9.10	112	13783	2.251	ug/L	96
52) Ethylbenzene	9.24	91	19768	1.962	ug/L	97
53) m,p-Xylene	9.36	106	7655	1.980	ug/L	91
54) o-xylene	9.76	106	6906	1.841	ug/L	95
55) Styrene	9.78	104	11409	1.791	ug/L	99
56) Isopropylbenzene	10.15	105	17500	1.785	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	9686	2.429	ug/L	97
59) 1,2,3-Trichloropropane	10.48	75	6800	2.212	ug/L	100
61) Bromoform	9.94	173	3782	2.110	ug/L	95
62) 1,3-Dichlorobenzene	11.40	146	10134	2.224	ug/L	91
63) 1,4-Dichlorobenzene	11.49	146	11042	2.332	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	11045	2.397	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.64	75	1730	2.032	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.88	180	7093	1.929	ug/L	95
68) 1,2,4-trichlorobenzene	13.50	180	5045	1.606	ug/L	96
69) Naphthalene	13.74	128	12293	1.364	ug/L	95
70) 1,2,3-Trichlorobenzene	13.98	180	5313	1.608	ug/L	98

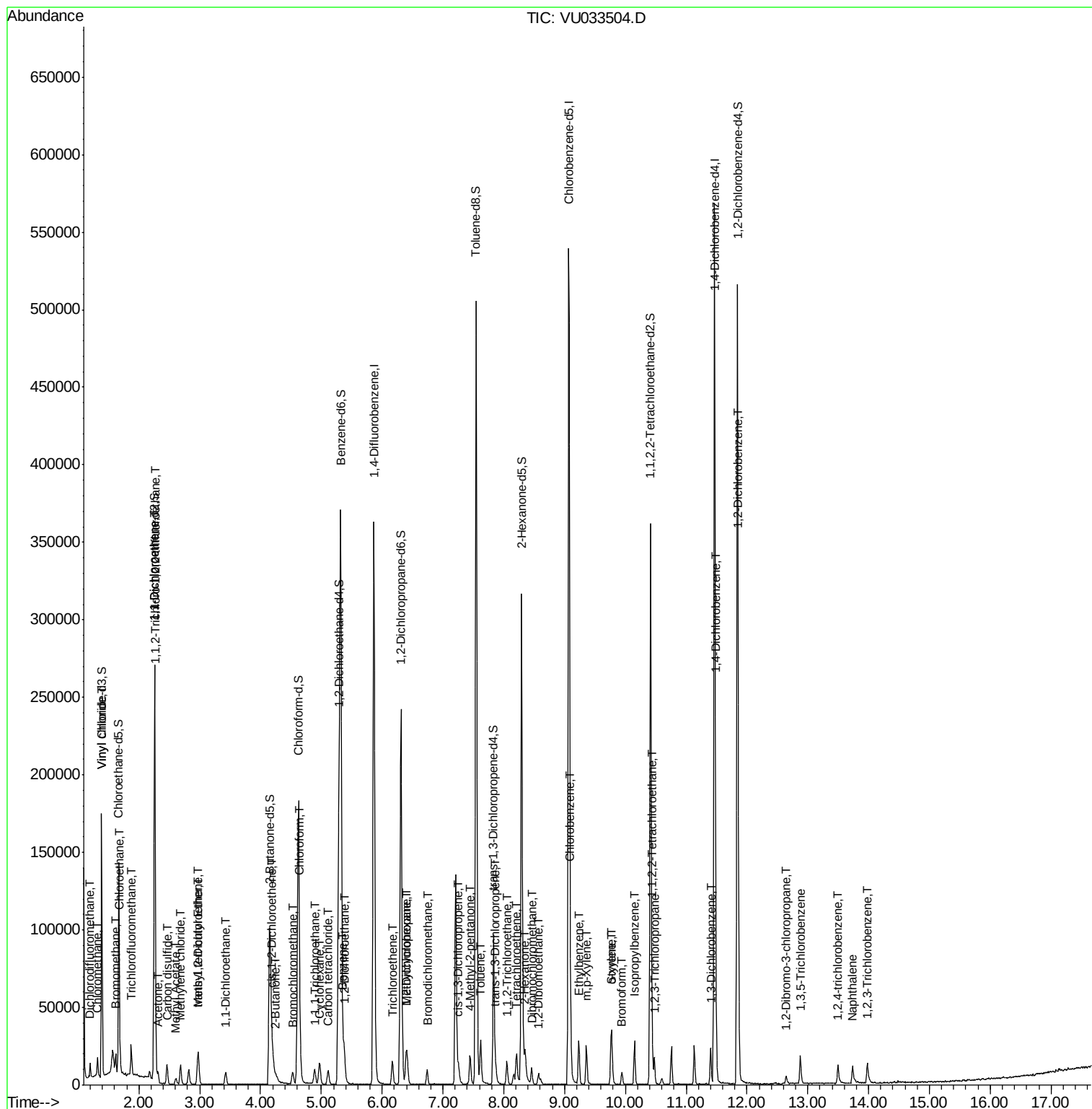
(#) = qualifier out of range (m) = manual integration (+) = signals summed

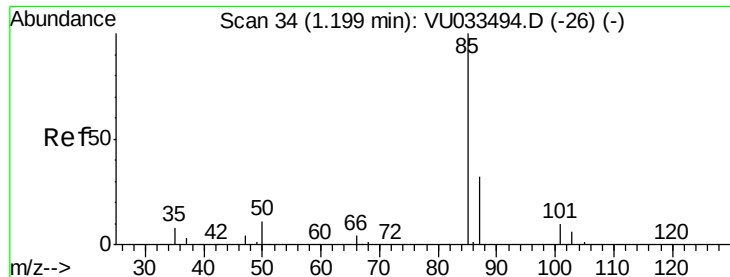
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ClientSampleId :
MDL04

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#2

Dichlorodifluoromethane

Concen: 2.130 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampled :

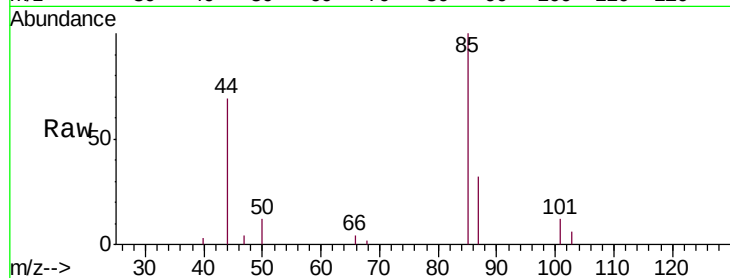
MDL04

Tgt Ion: 85 Resp: 6119

Ion Ratio Lower Upper

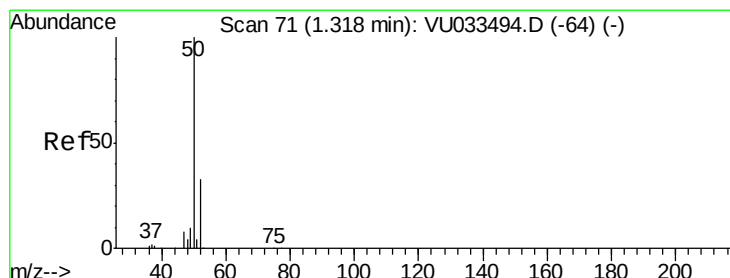
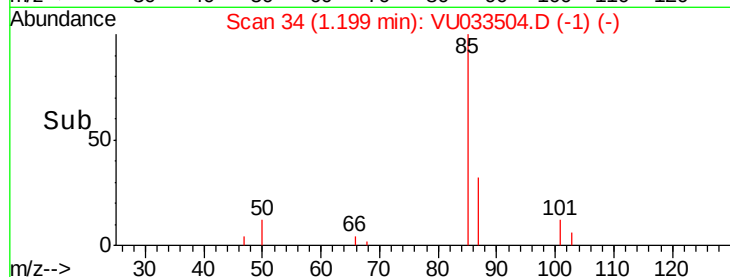
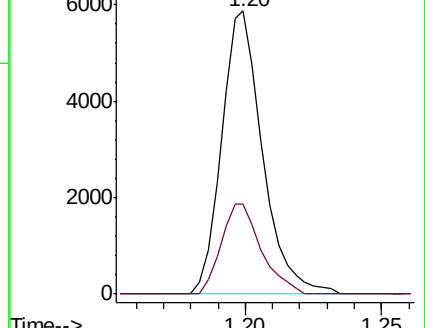
85 100

87 31.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033504.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033504.D (-1) (-)



#3

Chloromethane

Concen: 2.529 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033504.D

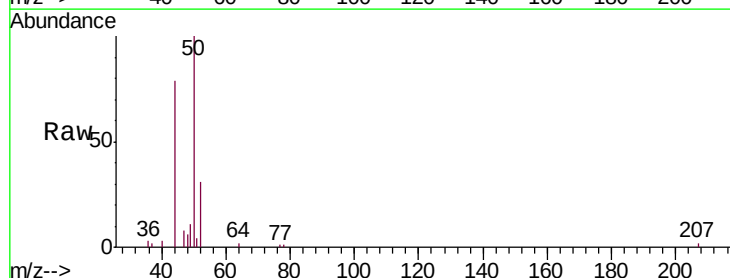
Acq: 30 Jul 2019 19:57

Tgt Ion: 50 Resp: 7319

Ion Ratio Lower Upper

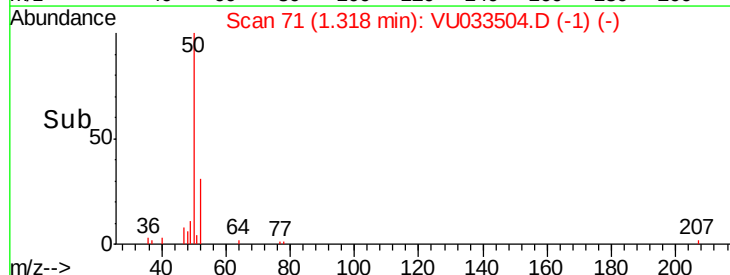
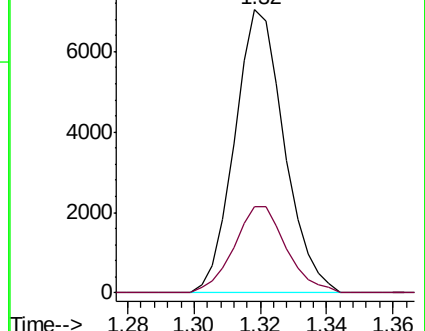
50 100

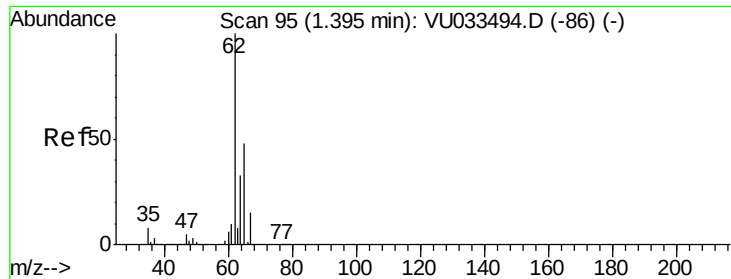
52 30.6 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033504.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033504.D (-1) (-)





#5

Vinyl chloride

Concen: 2.387 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

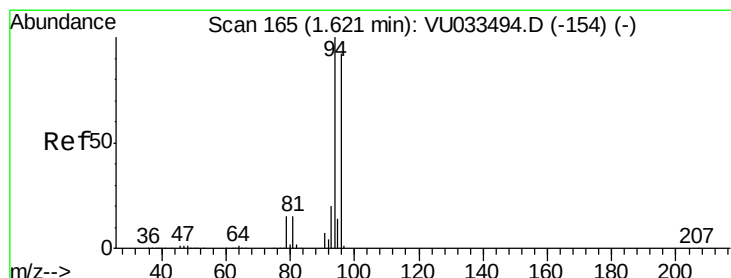
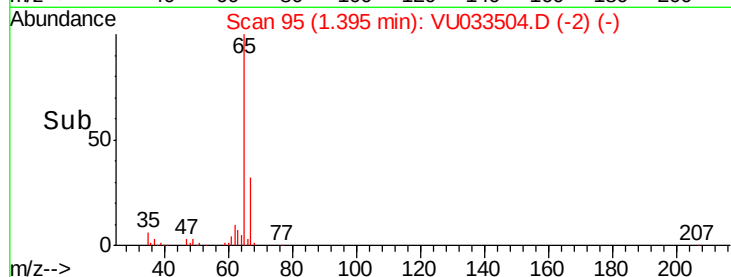
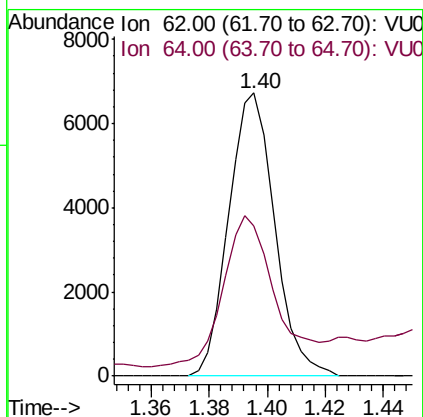
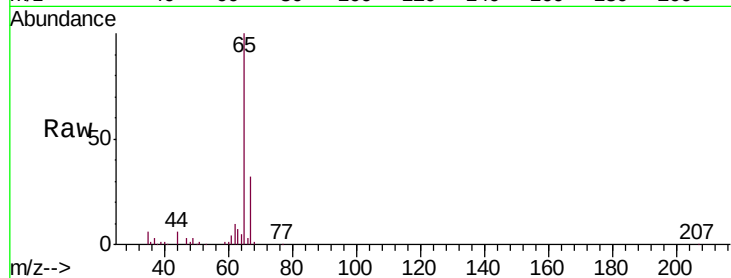
MDL04

Tgt Ion: 62 Resp: 7407

Ion Ratio Lower Upper

62 100

64 53.3 23.4 43.4#



#6

Bromomethane

Concen: 1.735 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033504.D

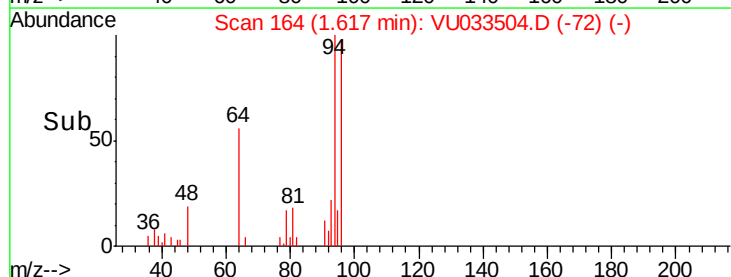
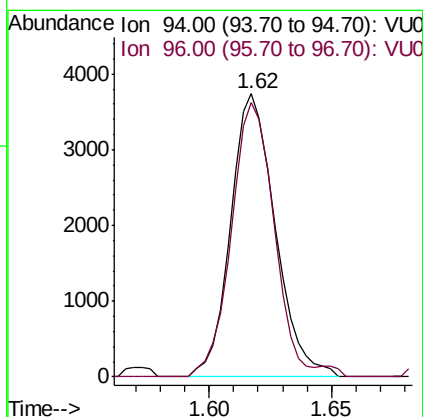
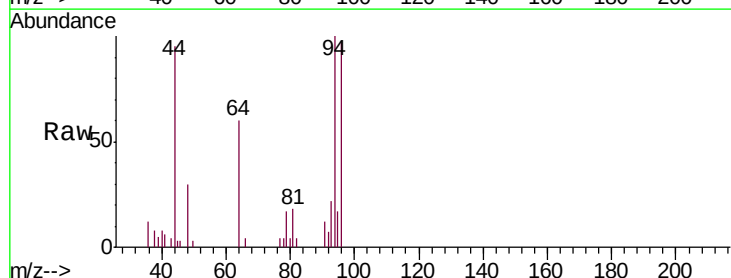
Acq: 30 Jul 2019 19:57

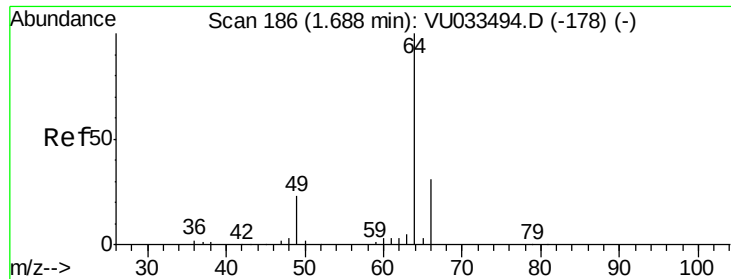
Tgt Ion: 94 Resp: 4750

Ion Ratio Lower Upper

94 100

96 96.8 64.4 119.6





#8

Chloroethane

Concen: 2.224 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

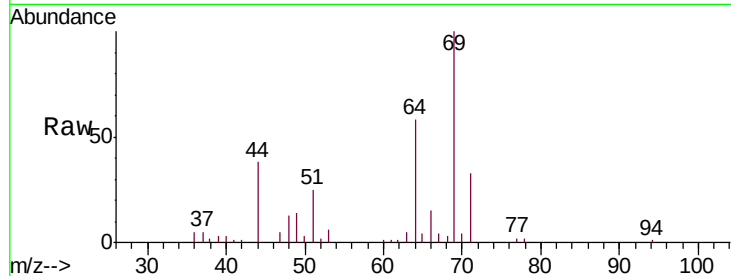
MDL04

Tgt Ion: 64 Resp: 4193

Ion Ratio Lower Upper

64 100

66 25.0 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VU033504.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU033504.D (-178) (-)

1.69

5000

4000

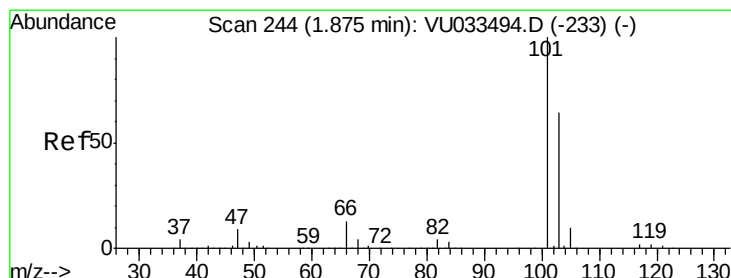
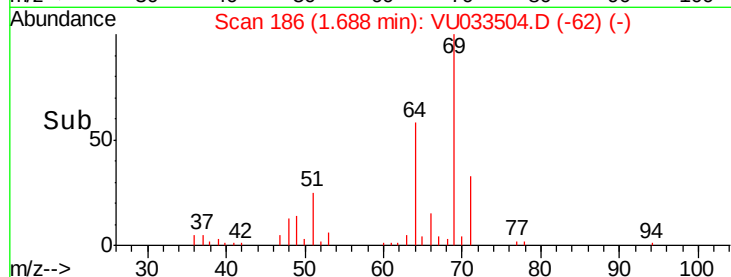
3000

2000

1000

0

Time-->



#9

Trichlorofluoromethane

Concen: 2.384 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033504.D

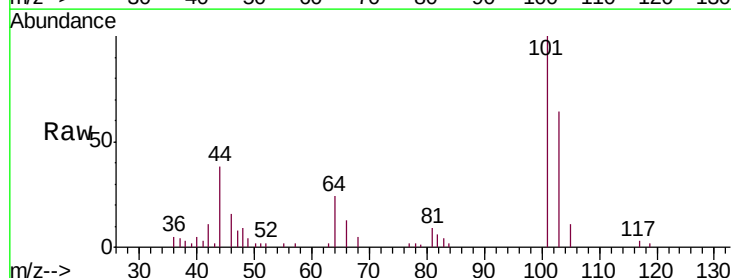
Acq: 30 Jul 2019 19:57

Tgt Ion: 101 Resp: 9677

Ion Ratio Lower Upper

101 100

103 61.4 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU033504.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033504.D (-233) (-)

1.87

8000

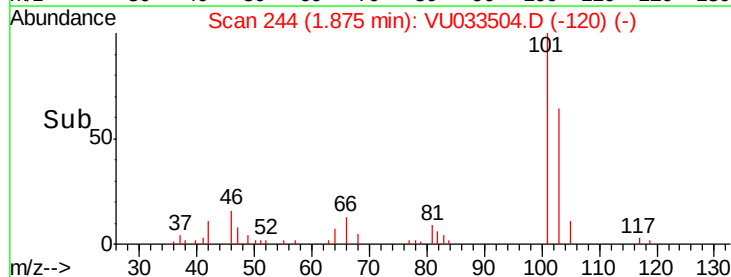
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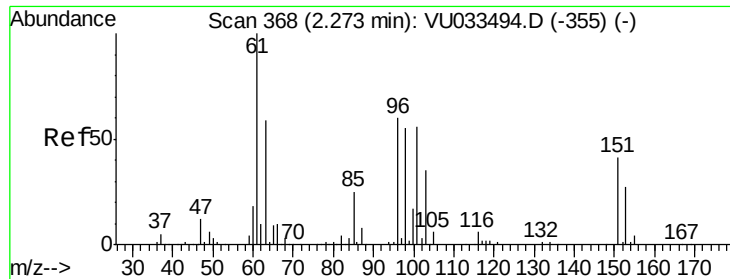
4000

2000

0

Time-->





#10

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

Concen: 2.859 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

MDL04

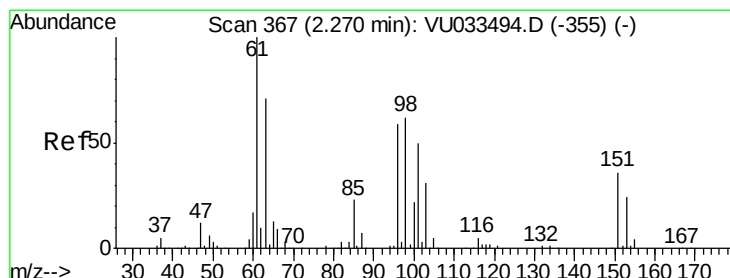
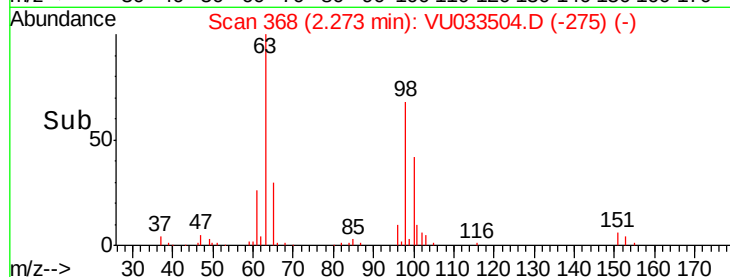
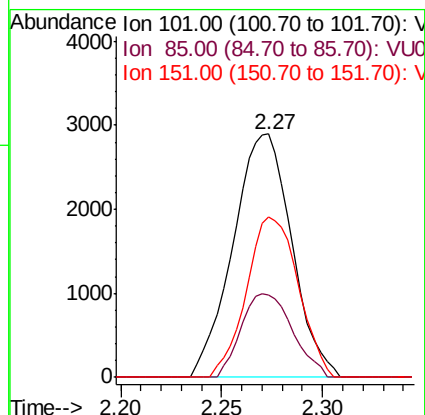
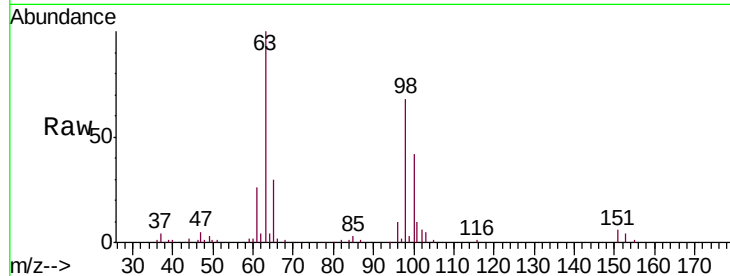
Tgt Ion:101 Resp: 5882

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

151 58.1 60.1 90.1#



#12

1,1-Dichloroethene

Concen: 2.741 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

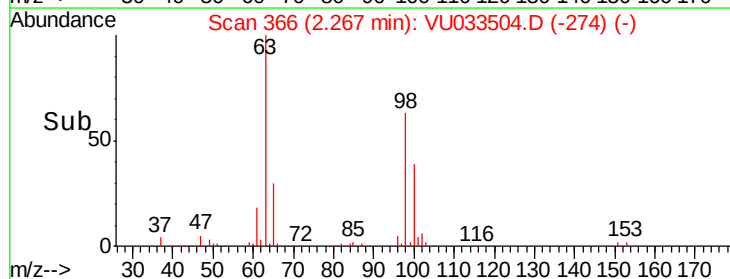
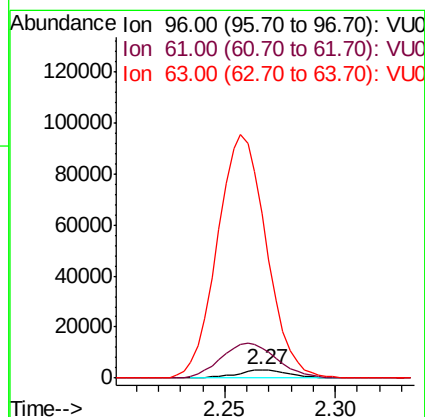
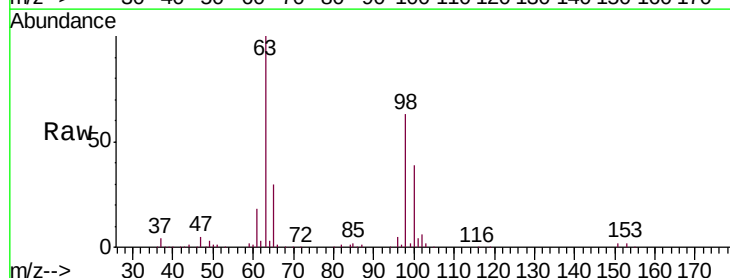
Tgt Ion: 96 Resp: 5408

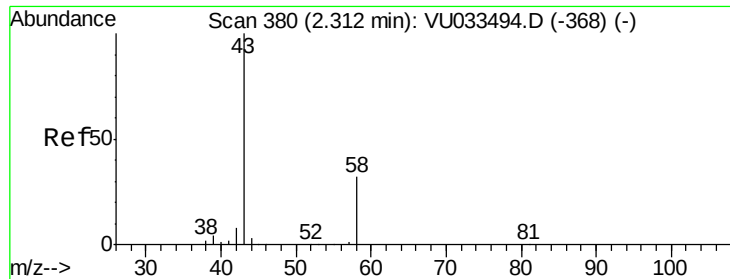
Ion Ratio Lower Upper

96 100

61 352.2 119.3 221.5#

63 1914.9 86.6 160.8#





#13

Acetone

Concen: 4.232 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

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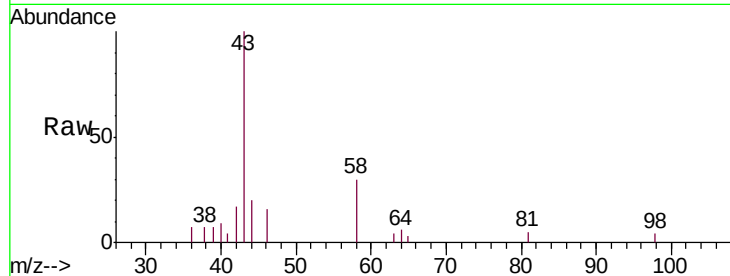
MDL04

Tgt Ion: 43 Resp: 6353

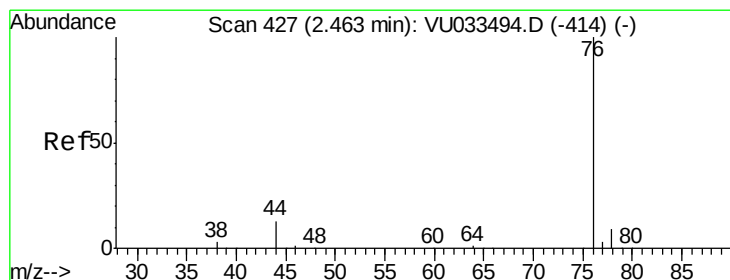
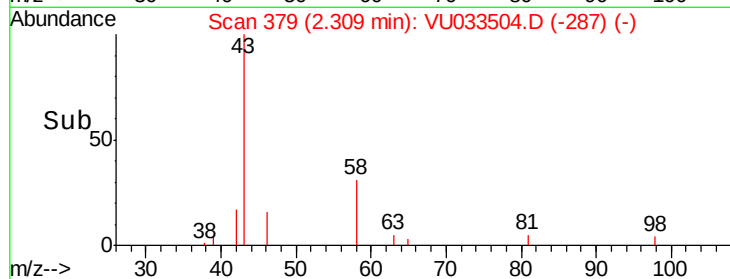
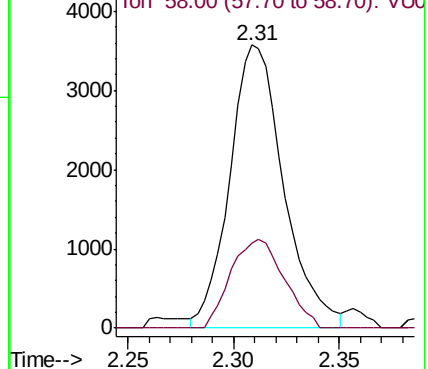
Ion Ratio Lower Upper

43 100

58 31.0 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU033504.D (-368) (-)



#14

Carbon disulfide

Concen: 2.334 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033504.D

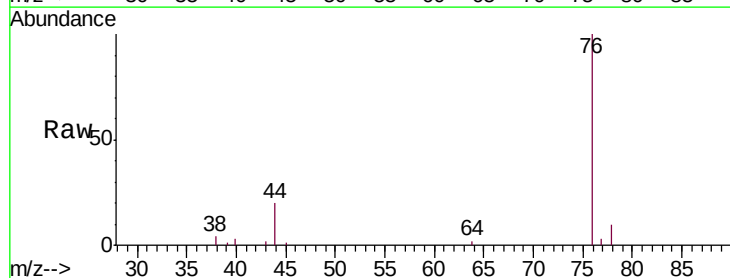
Acq: 30 Jul 2019 19:57

Tgt Ion: 76 Resp: 14445

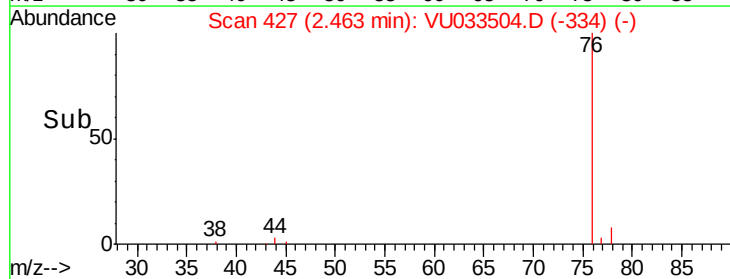
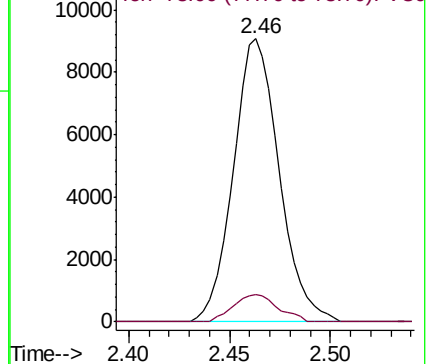
Ion Ratio Lower Upper

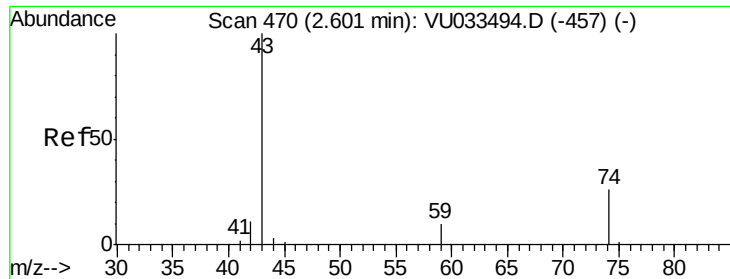
76 100

78 9.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033504.D (-334) (-)

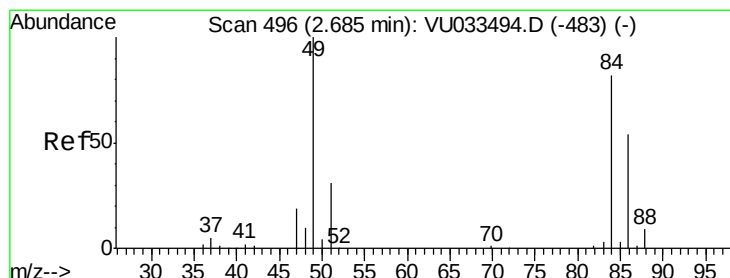
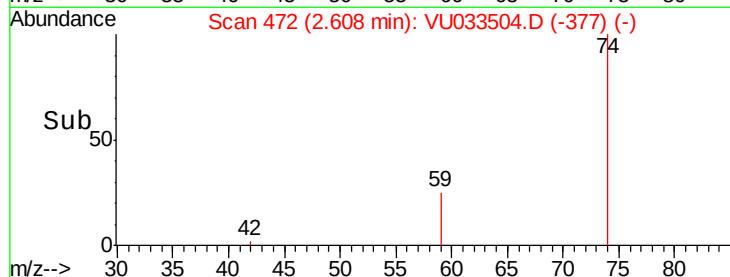
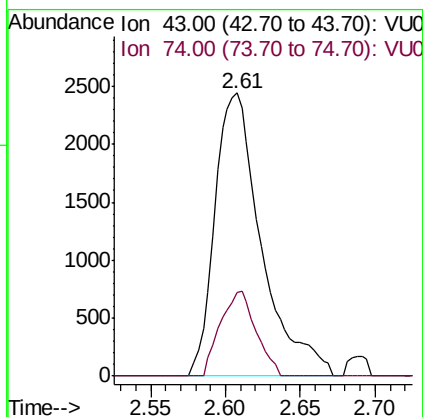
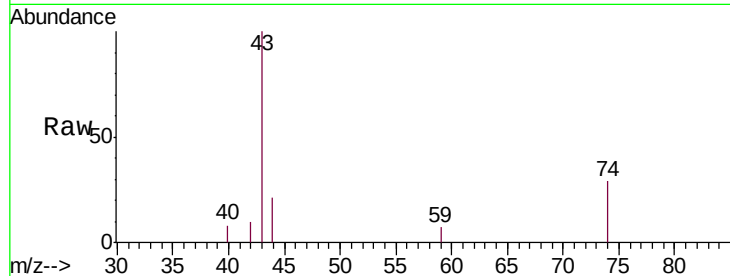




#15
Methyl Acetate
Concen: 2.218 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

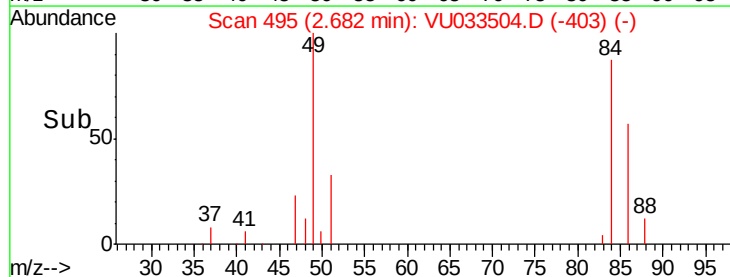
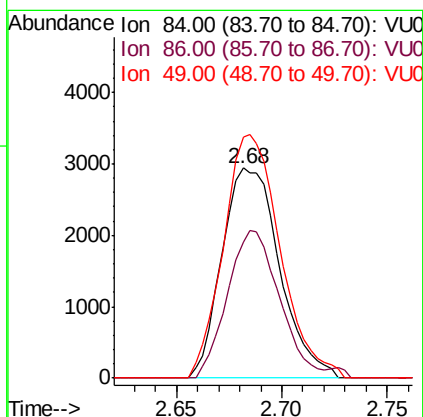
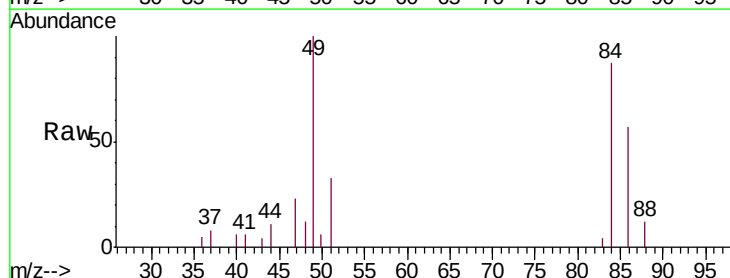
Instrument :
MSVOA_U
ClientSampled :
MDL04

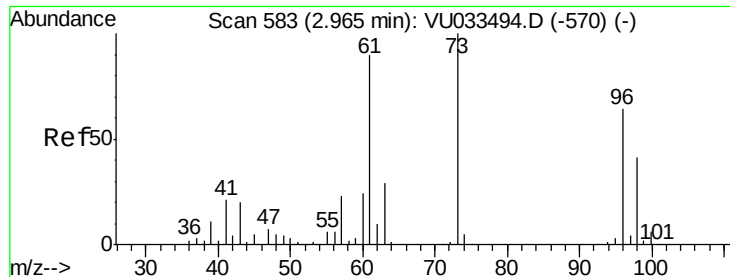
Tgt Ion: 43 Resp: 5301
Ion Ratio Lower Upper
43 100
74 22.9 20.1 30.1



#16
Methylene chloride
Concen: 2.476 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

Tgt Ion: 84 Resp: 5580
Ion Ratio Lower Upper
84 100
86 64.9 45.7 84.9
49 114.6 85.0 158.0





#17

trans-1,2-Dichloroethene

Concen: 2.183 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

MDL04

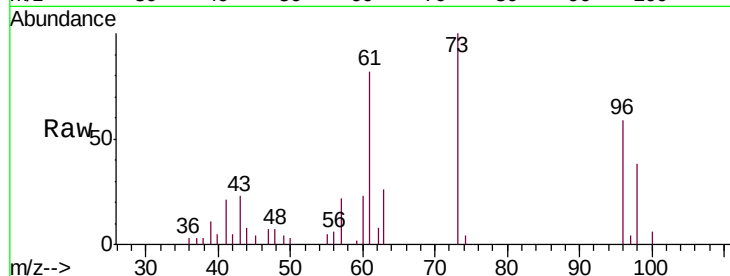
Tgt Ion: 96 Resp: 4512

Ion Ratio Lower Upper

96 100

61 140.5 98.3 182.5

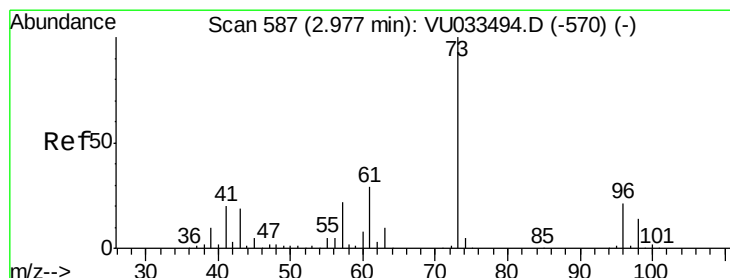
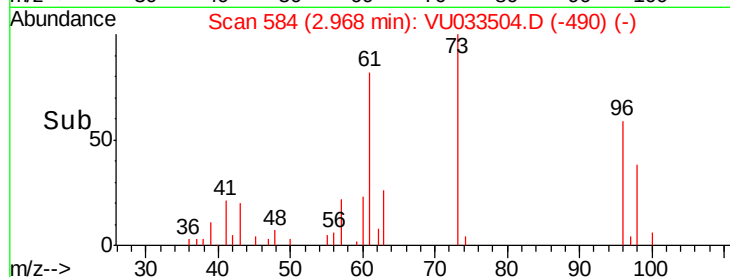
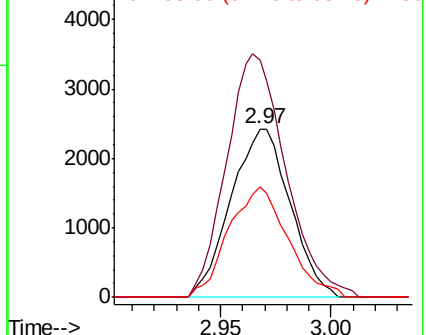
98 65.4 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU033504.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033504.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033504.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 2.097 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

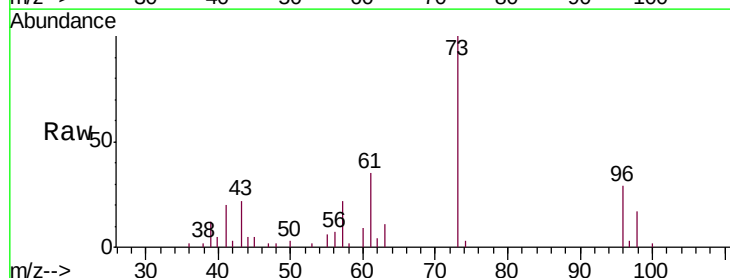
Tgt Ion: 73 Resp: 13218

Ion Ratio Lower Upper

73 100

43 21.9 15.4 23.2

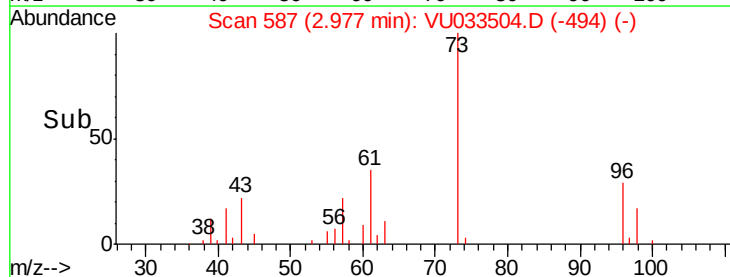
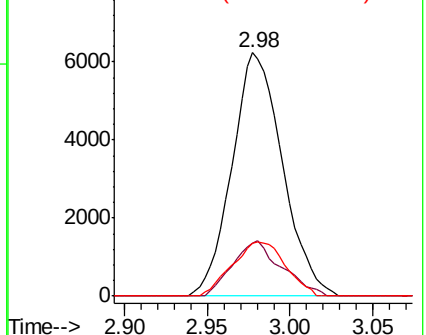
57 23.4 17.4 26.2

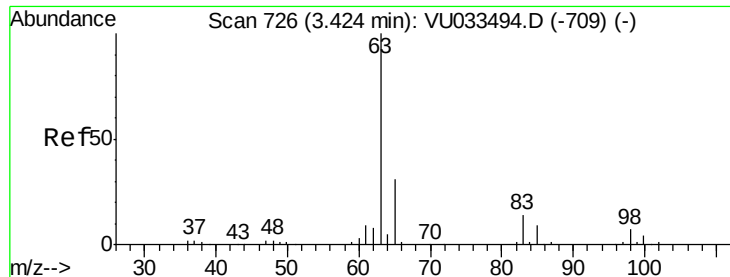


Abundance Ion 73.00 (72.70 to 73.70): VU033504.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033504.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033504.D (-494) (-)

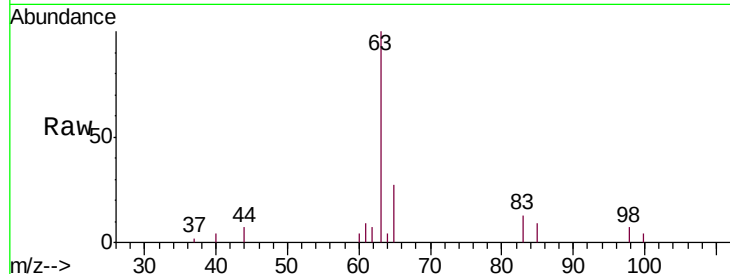




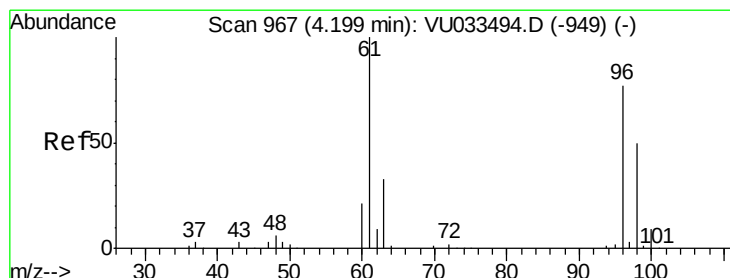
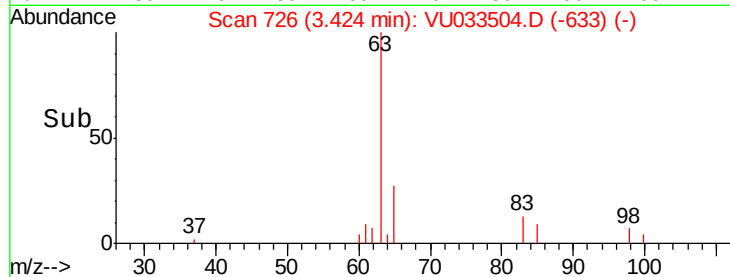
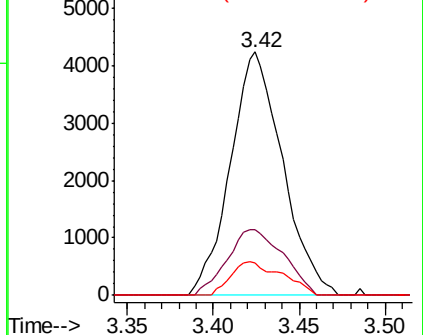
#19
 1,1-Dichloroethane
 Concen: 2.304 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tgt Ion: 63 Resp: 8941
 Ion Ratio Lower Upper
 63 100
 65 26.8 22.0 40.8
 83 13.1 9.5 17.7

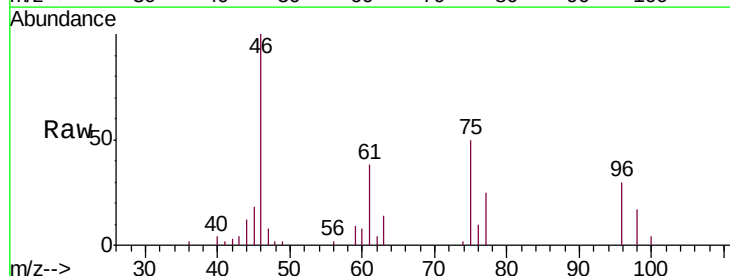


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

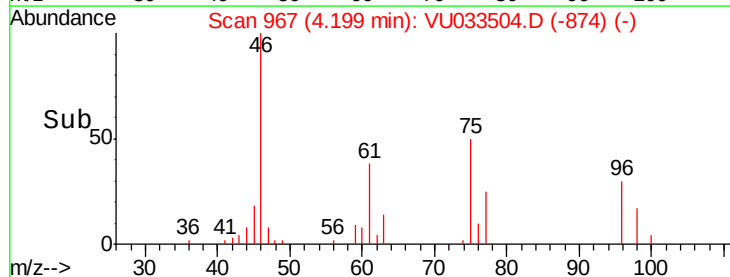
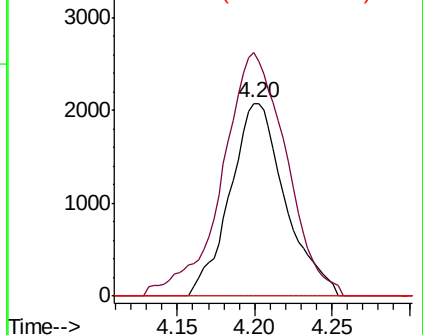


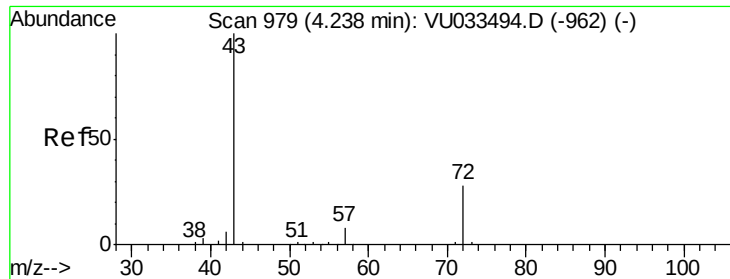
#20
 cis-1,2-Dichloroethene
 Concen: 2.217 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Tgt Ion: 96 Resp: 5143
 Ion Ratio Lower Upper
 96 100
 61 126.2 91.3 169.6
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 1.724 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

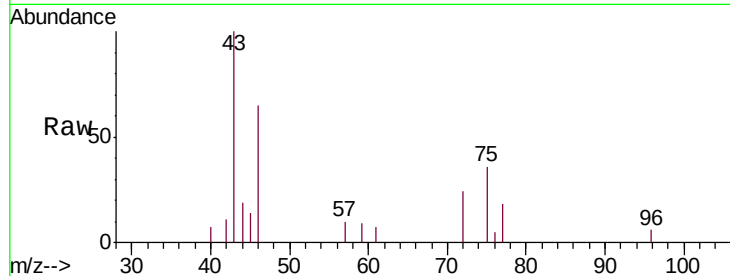
MDL04

Tgt Ion: 43 Resp: 3089

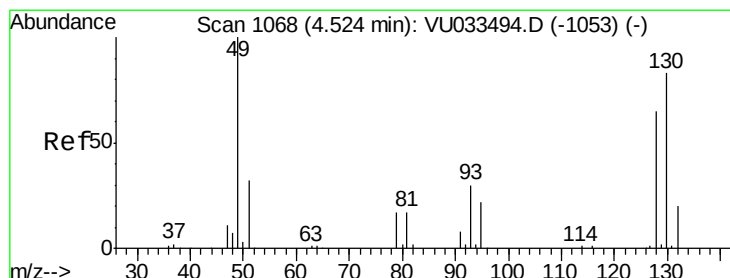
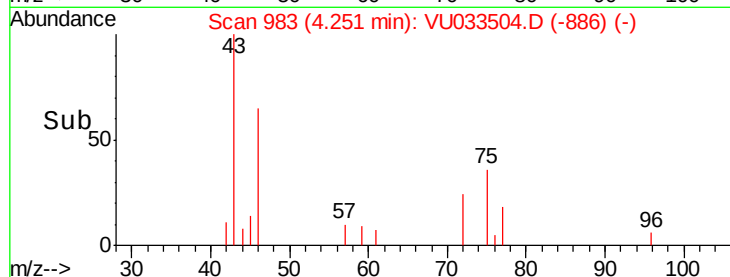
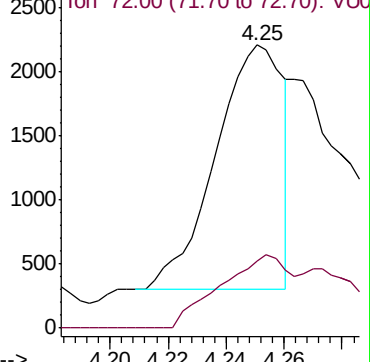
Ion Ratio Lower Upper

43 100

72 30.7 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VU033494.D (-962) (-)



#23

Bromochloromethane

Concen: 2.246 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Tgt Ion: 128 Resp: 2719

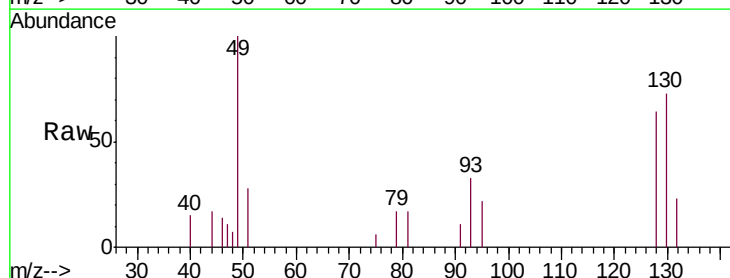
Ion Ratio Lower Upper

128 100

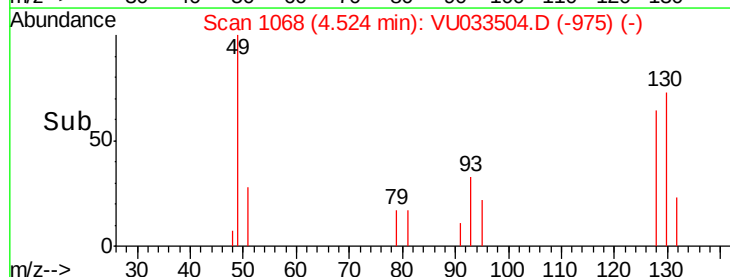
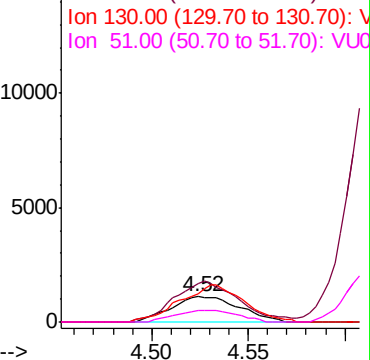
49 155.5 108.4 201.2

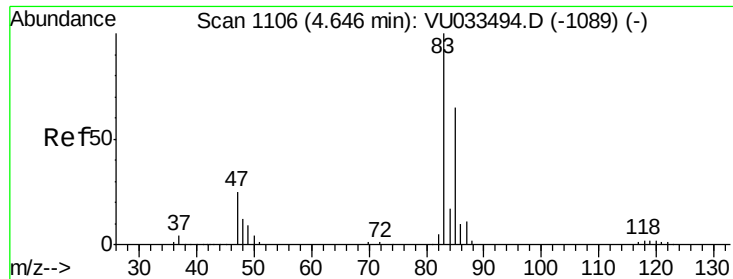
130 113.1 89.7 166.5

51 43.7 38.9 58.3



Abundance Ion 128.00 (127.70 to 128.70): VU033494.D (-1053) (-)





#25

Chloroform

Concen: 3.315 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

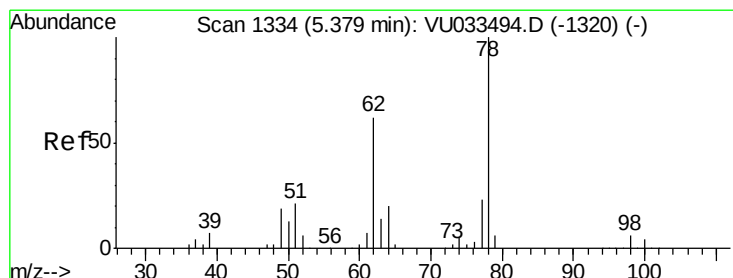
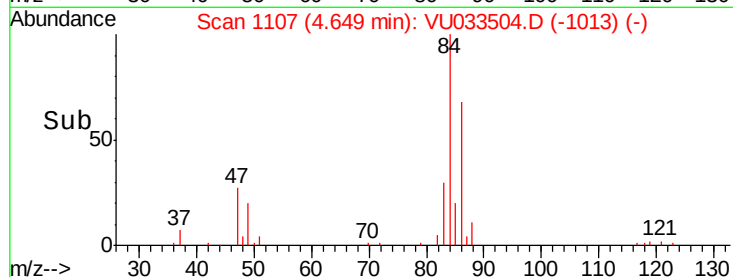
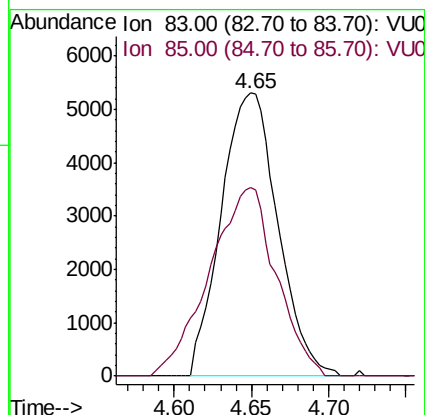
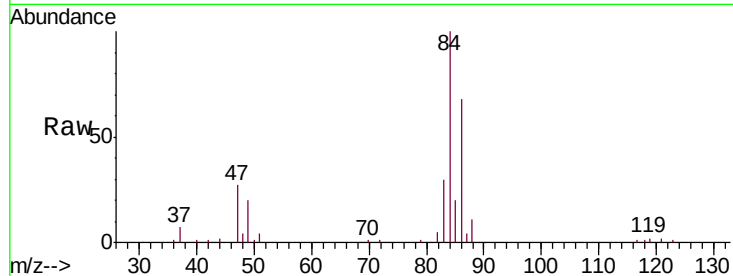
MDL04

Tgt Ion: 83 Resp: 13535

Ion Ratio Lower Upper

83 100

85 66.6 45.6 84.8



#27

1,2-Dichloroethane

Concen: 2.325 ug/L

RT: 5.39 min Scan# 1337

Delta R.T. 0.01 min

Lab File: VU033504.D

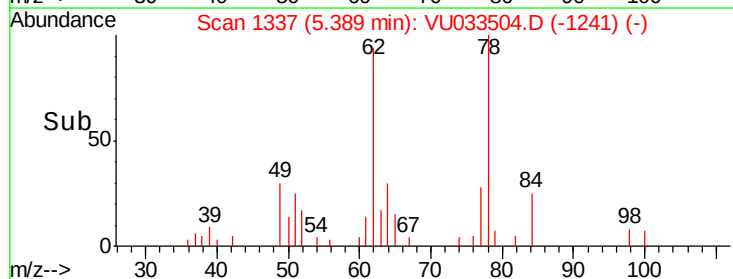
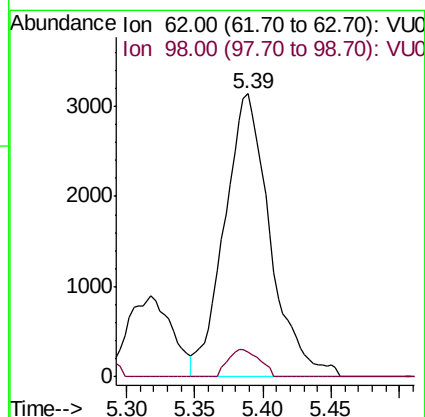
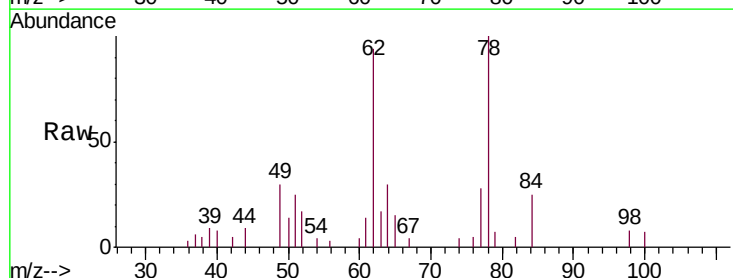
Acq: 30 Jul 2019 19:57

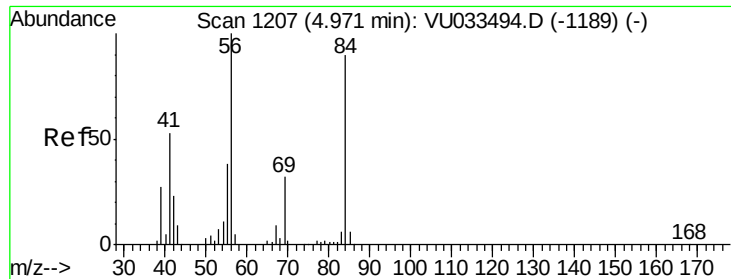
Tgt Ion: 62 Resp: 7309

Ion Ratio Lower Upper

62 100

98 8.6 7.2 10.8

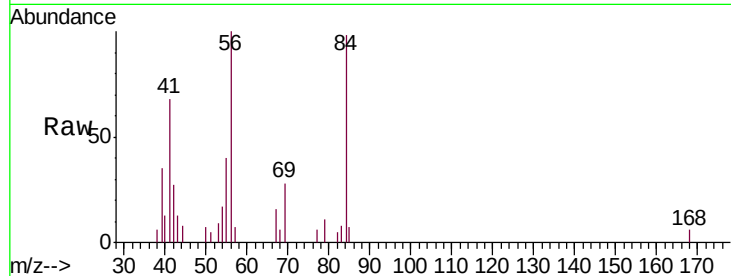




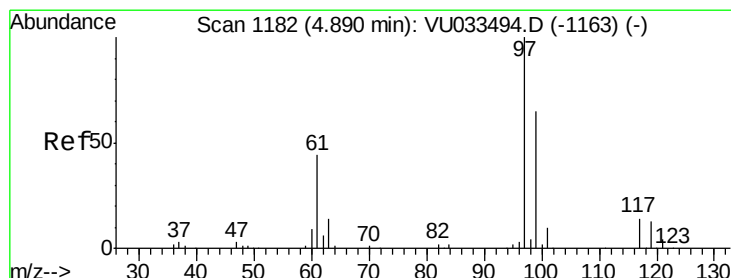
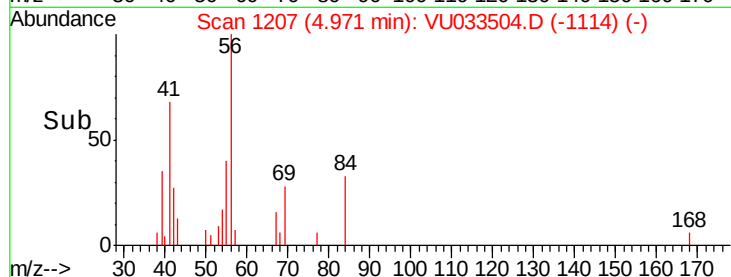
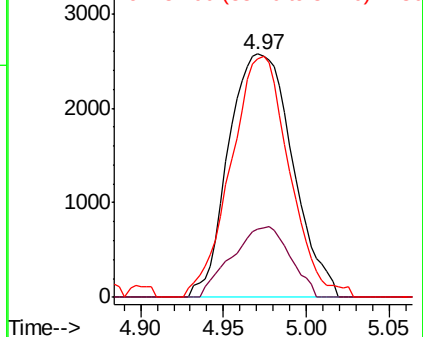
#29
Cyclohexane
Concen: 2.092 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 56 Resp: 6882
Ion Ratio Lower Upper
56 100
69 26.5 25.0 37.6
84 90.4 71.6 107.4

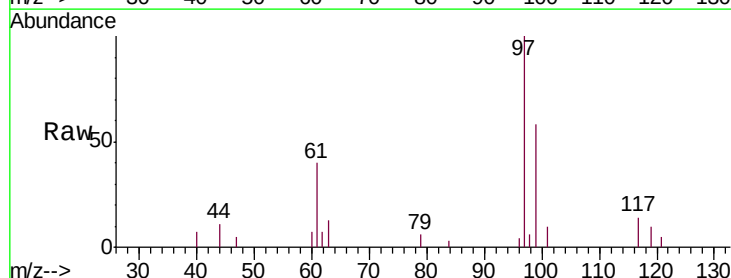


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

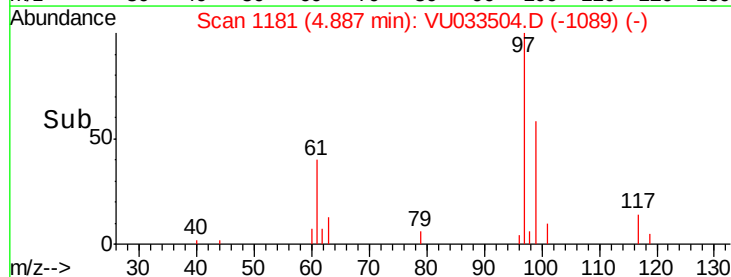
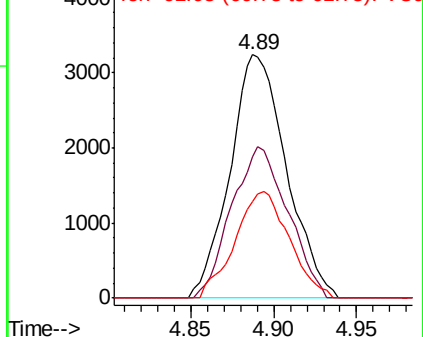


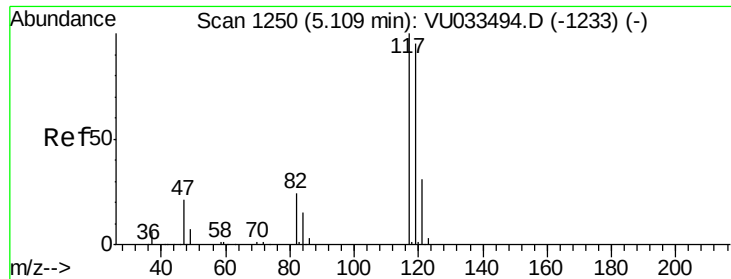
#30
1,1,1-Trichloroethane
Concen: 2.210 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

Tgt Ion: 97 Resp: 7669
Ion Ratio Lower Upper
97 100
99 61.8 51.1 76.7
61 42.0 35.5 53.3



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

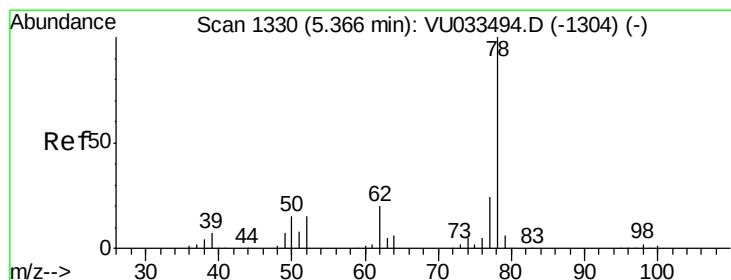
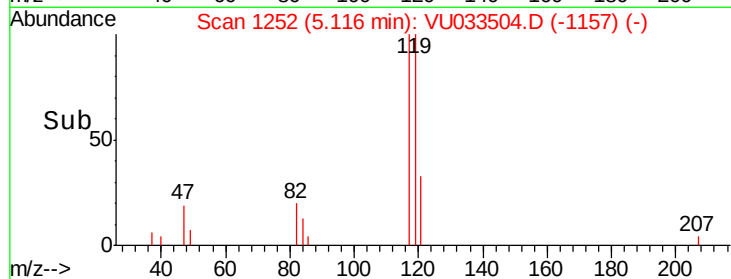
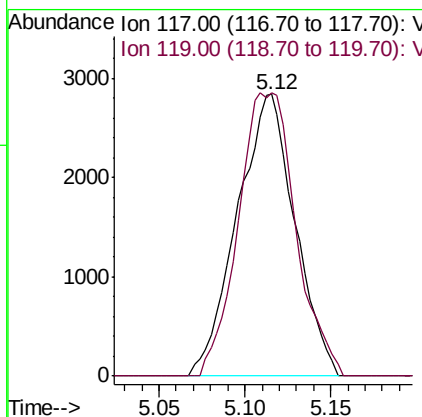
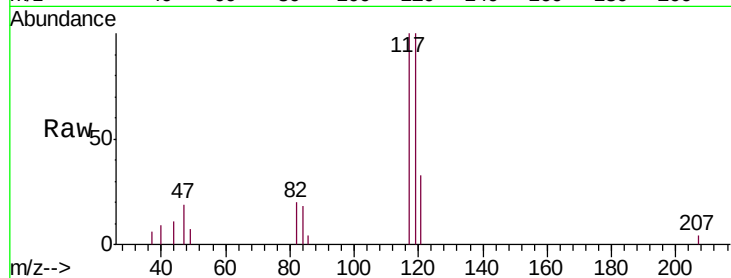




#31
Carbon tetrachloride
Concen: 2.192 ug/L
RT: 5.12 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

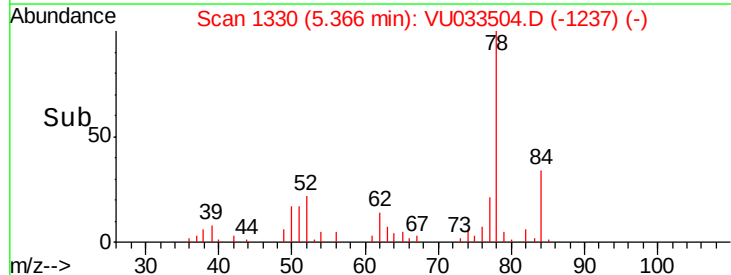
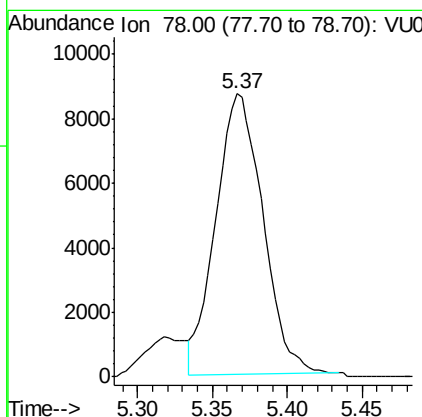
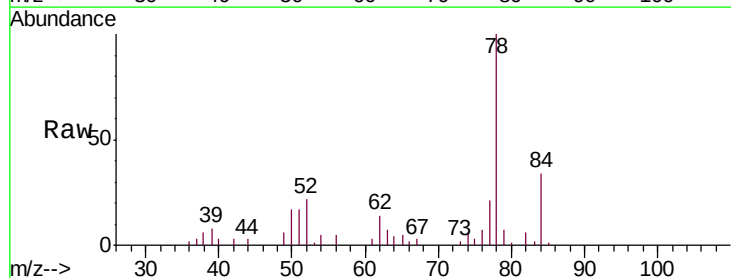
Instrument :
MSVOA_U
ClientSampleId :
MDL04

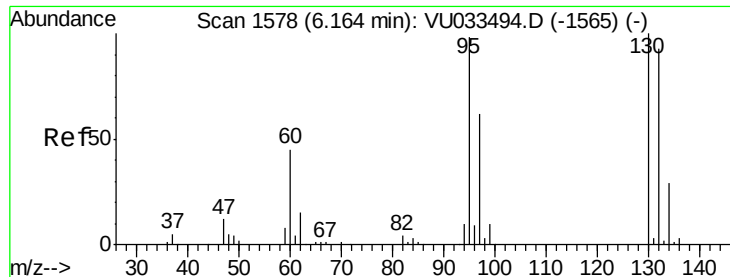
Tgt Ion: 117 Resp: 6624
Ion Ratio Lower Upper
117 100
119 52.0 77.0 115.4#



#33
Benzene
Concen: 2.198 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

Tgt Ion: 78 Resp: 19122





#34

Trichloroethene

Concen: 2.220 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 95 Resp: 5095

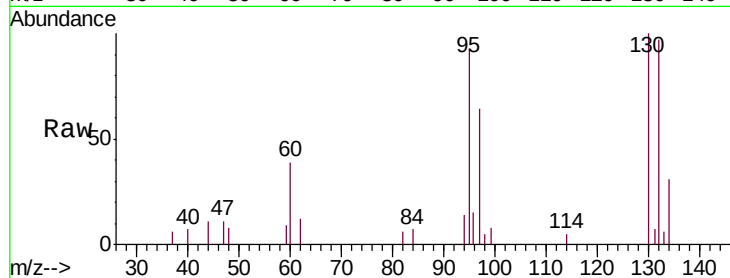
Ion Ratio Lower Upper

95 100

97 68.6 44.7 83.1

132 103.9 66.8 124.0

130 107.2 71.6 133.0

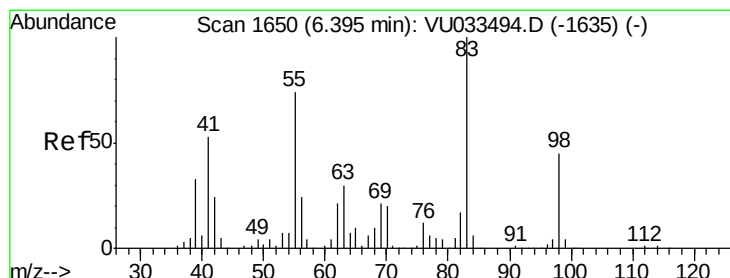
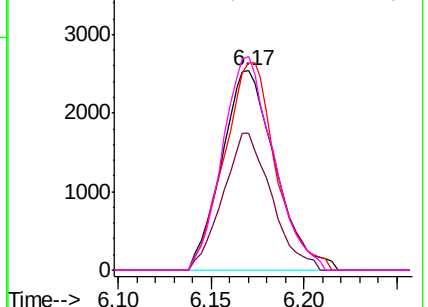
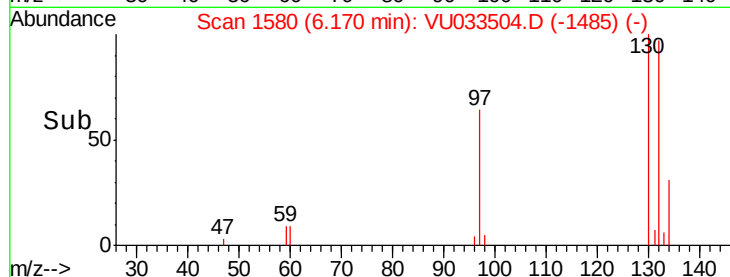


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 1.914 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

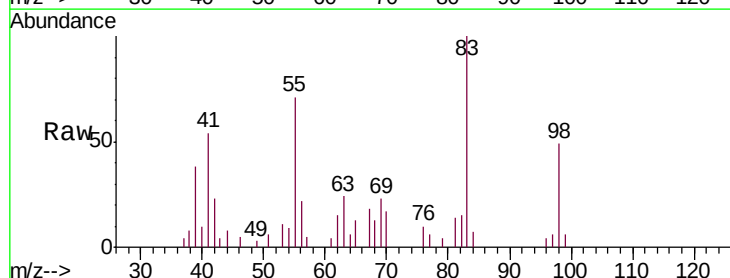
Tgt Ion: 83 Resp: 6854

Ion Ratio Lower Upper

83 100

55 70.7 60.2 90.4

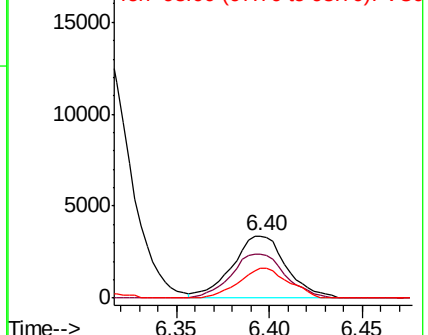
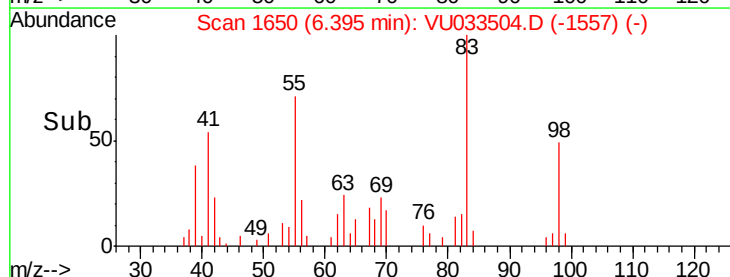
98 44.4 36.5 54.7

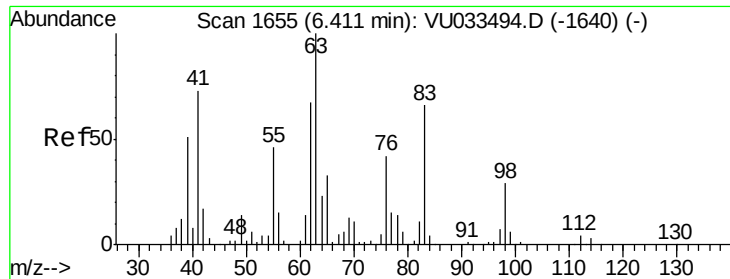


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

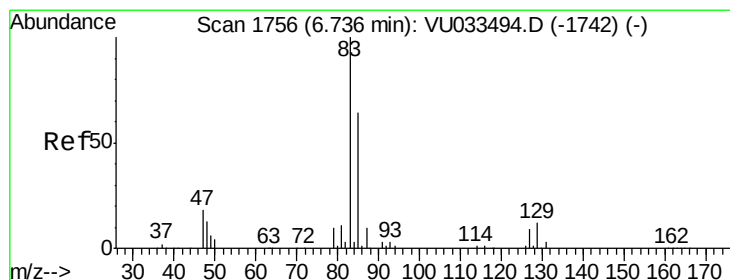
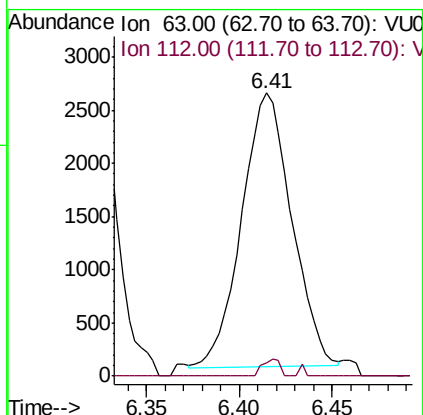
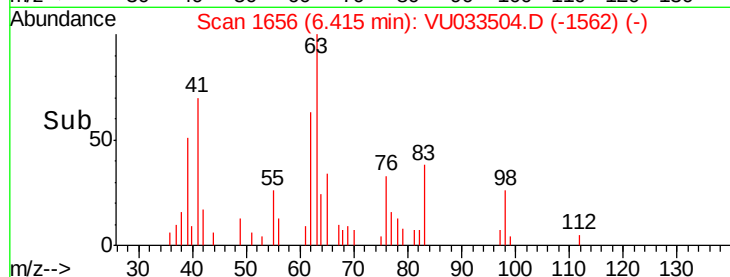
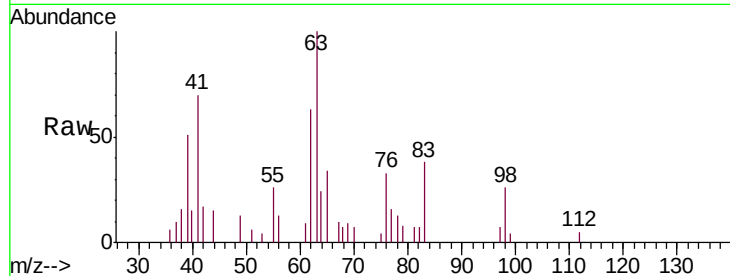




#37
 1,2-Dichloropropane
 Concen: 2.078 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

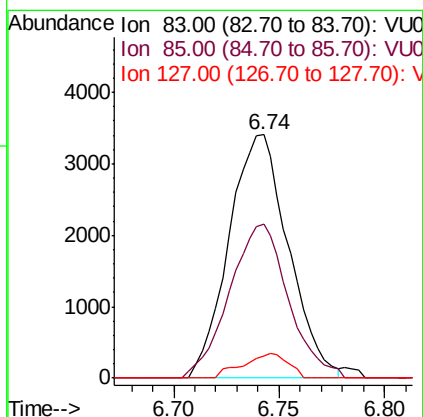
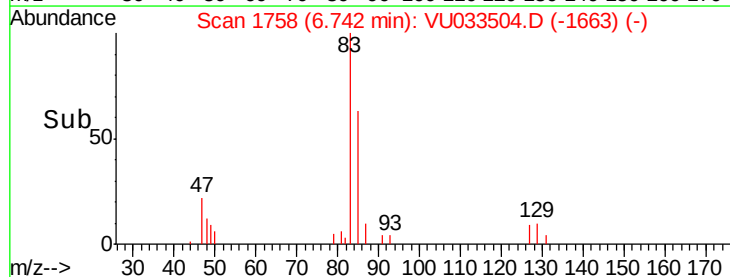
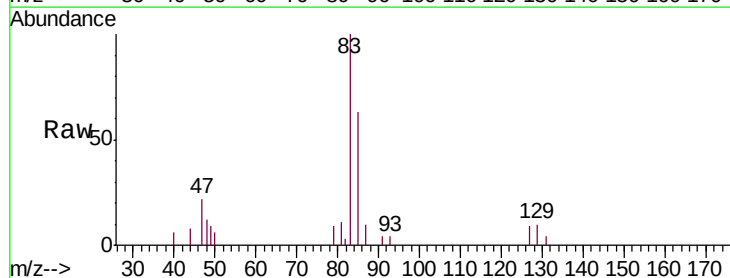
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

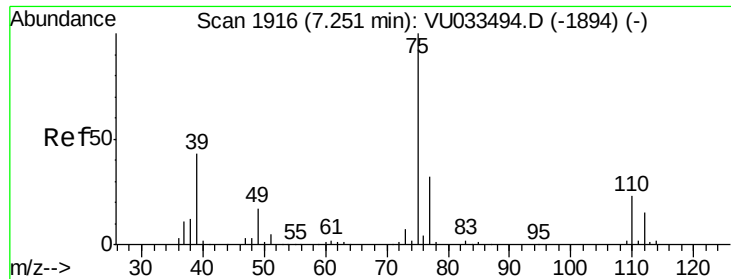
Tgt Ion: 63 Resp: 4840
 Ion Ratio Lower Upper
 63 100
 112 2.1 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 2.214 ug/L
 RT: 6.74 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Tgt Ion: 83 Resp: 6666
 Ion Ratio Lower Upper
 83 100
 85 63.1 45.1 83.9
 127 9.3 7.2 10.8

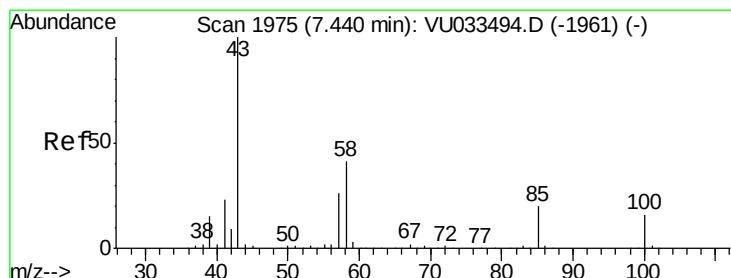
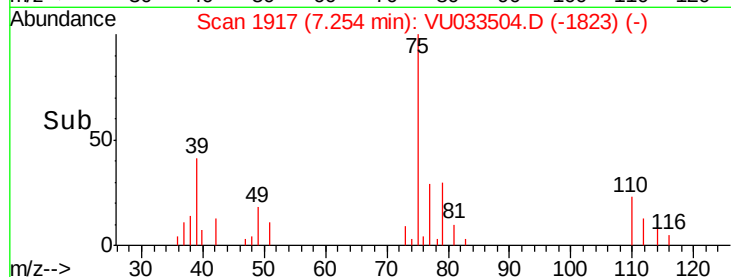
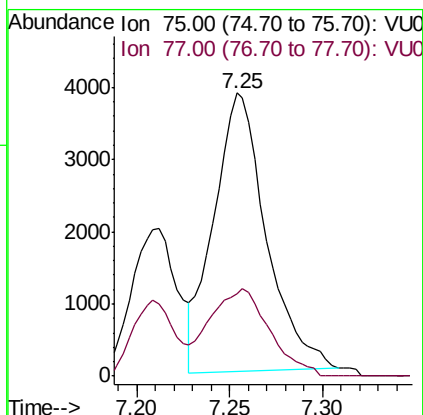
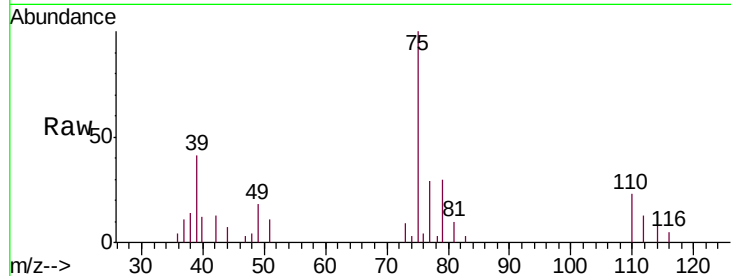




#39
 cis-1,3-Dichloropropene
 Concen: 2.089 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

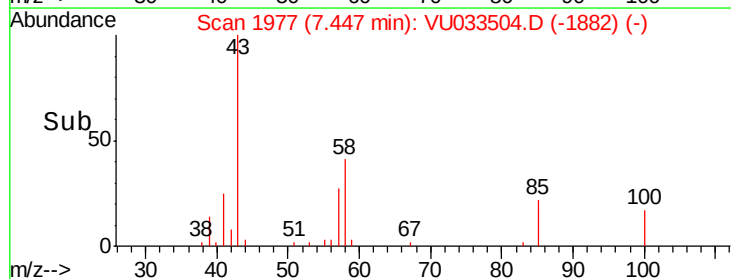
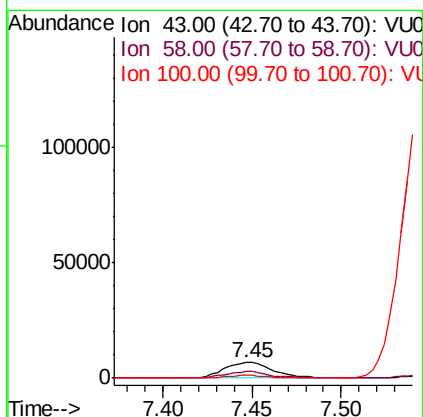
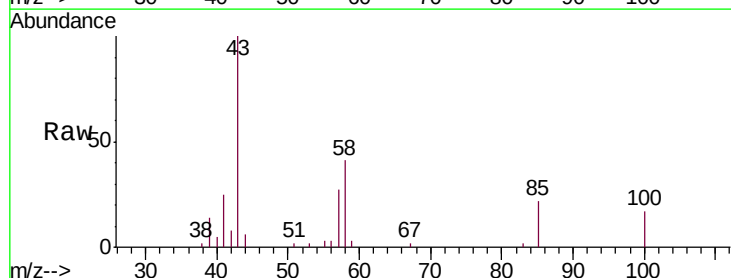
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

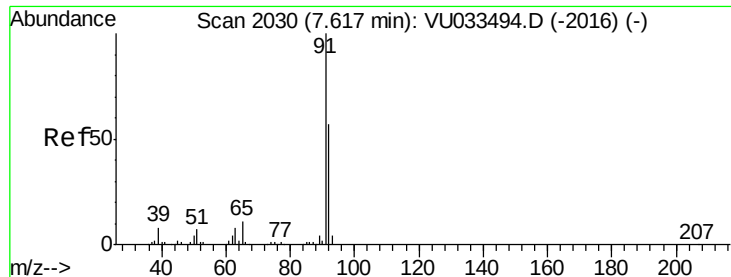
Tgt Ion: 75 Resp: 7594
 Ion Ratio Lower Upper
 75 100
 77 29.3 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 4.014 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Tgt Ion: 43 Resp: 12906
 Ion Ratio Lower Upper
 43 100
 58 38.6 32.8 49.2
 100 15.3 12.9 19.3





#42

Toluene

Concen: 2.228 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

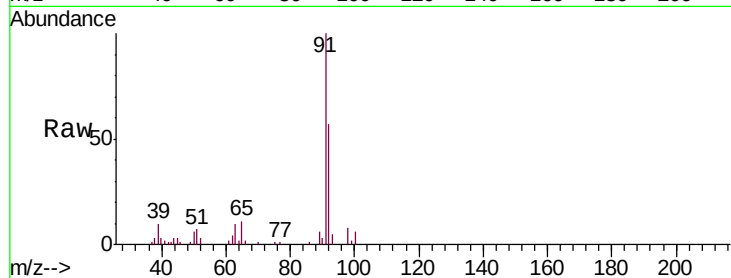
MDL04

Tgt Ion: 91 Resp: 20840

Ion Ratio Lower Upper

91 100

92 57.3 40.2 74.6

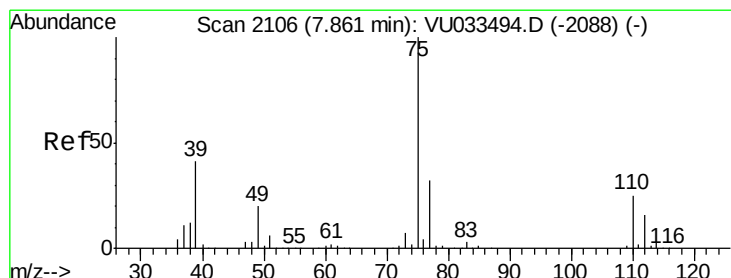
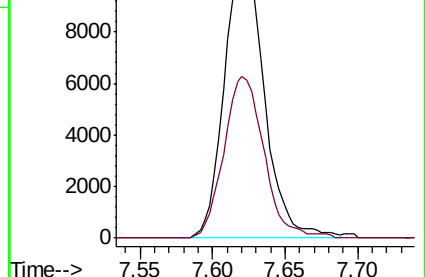
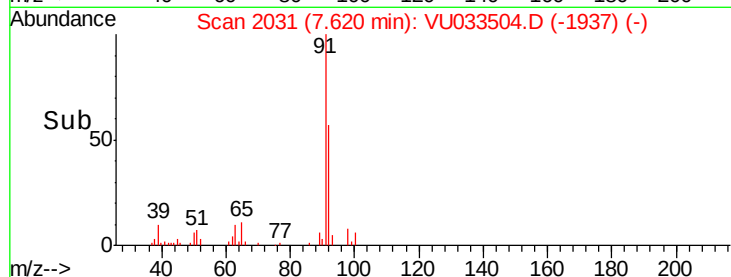


Abundance Ion 91.00 (90.70 to 91.70): VU033494.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033494.D (-2016) (-)

7.62

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.135 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033504.D

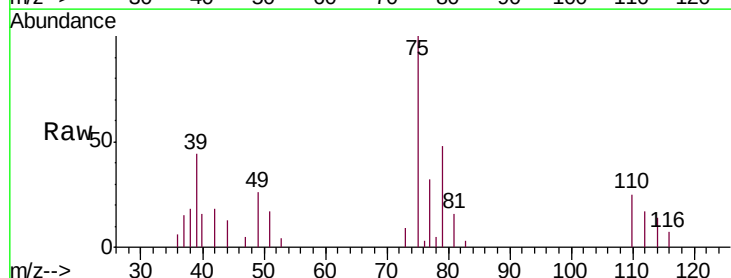
Acq: 30 Jul 2019 19:57

Tgt Ion: 75 Resp: 7012

Ion Ratio Lower Upper

75 100

77 31.8 22.7 42.1

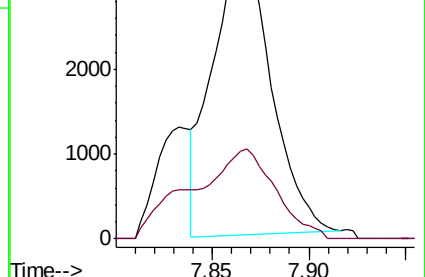
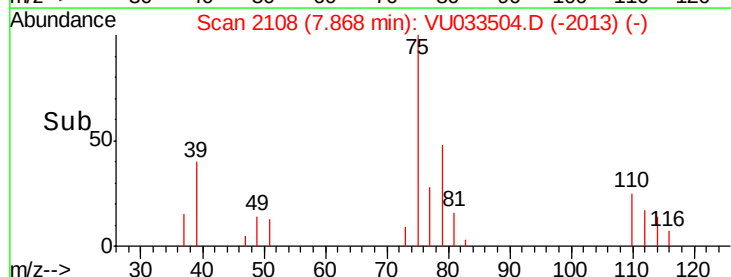


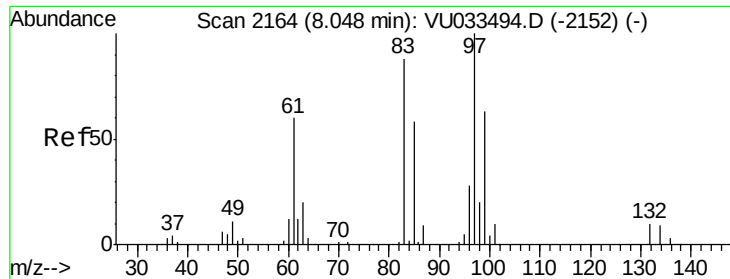
Abundance Ion 75.00 (74.70 to 75.70): VU033494.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033494.D (-2088) (-)

7.87

Time-->

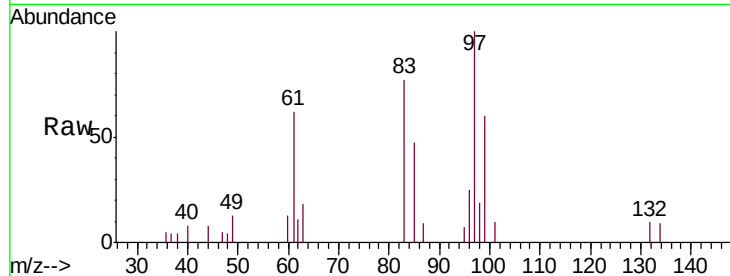




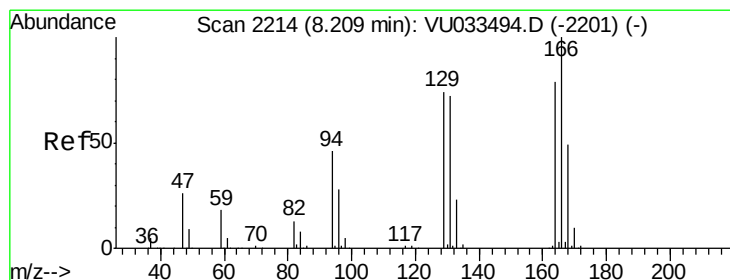
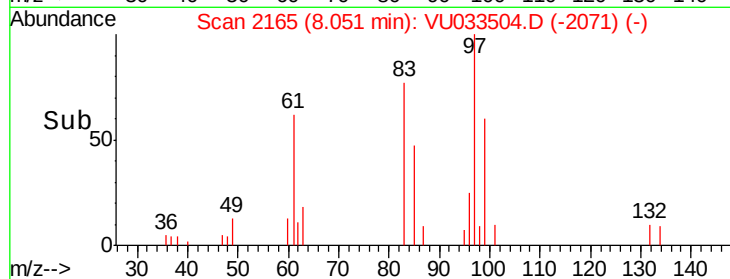
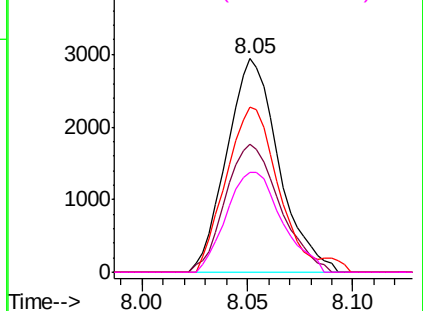
#45
 1,1,2-Trichloroethane
 Concen: 2.276 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion:	97	Resp:	5032
Ion	Ratio	Lower	Upper
97	100		
99	59.7	44.4	82.4
83	77.3	61.5	114.1
85	47.0	40.4	75.0

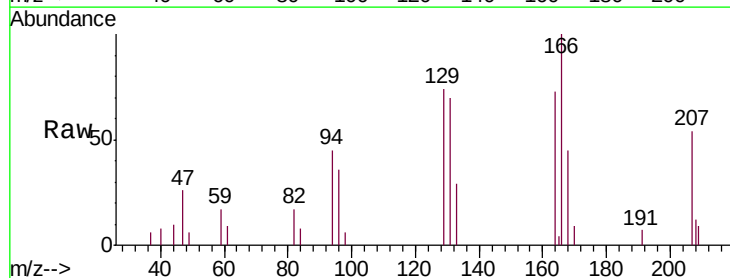


Abundance Ion 97.00 (96.70 to 97.70): VU033504.D (-2164) (-)

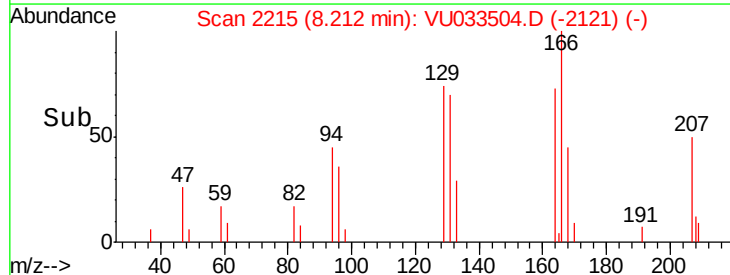
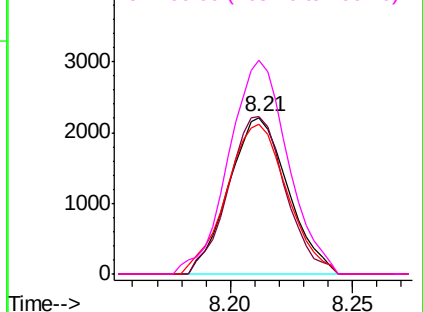


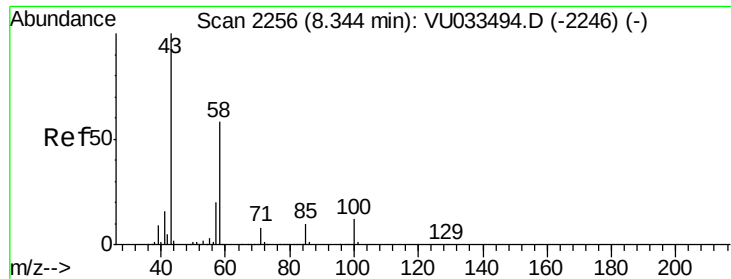
#46
 Tetrachloroethene
 Concen: 1.987 ug/L
 RT: 8.21 min Scan# 2215
 Delta R.T. 0.00 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Tgt Ion:	164	Resp:	3722
Ion	Ratio	Lower	Upper
164	100		
129	101.0	65.5	121.7
131	95.6	63.3	117.7
166	136.5	88.2	163.8



Abundance Ion 164.00 (163.70 to 164.70): VU033504.D (-2214) (-)

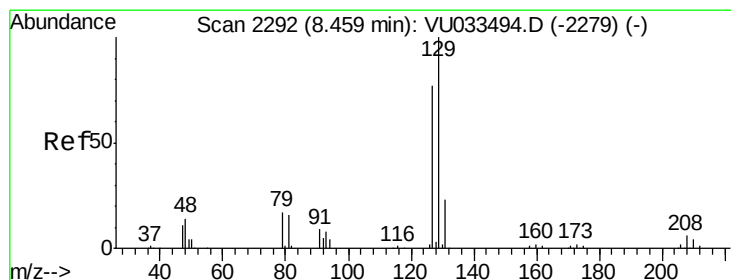
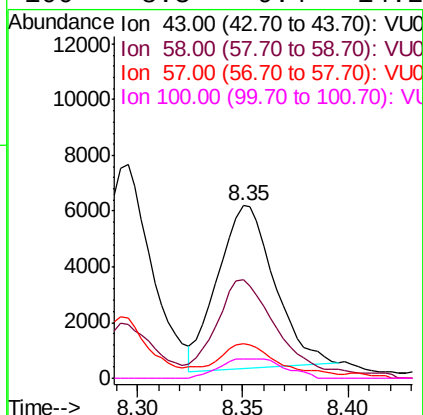
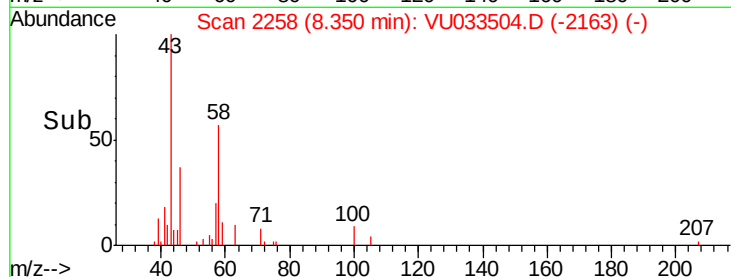
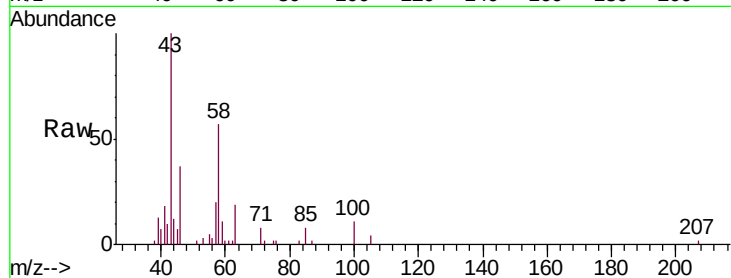




#48
2-Hexanone
Concen: 4.177 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

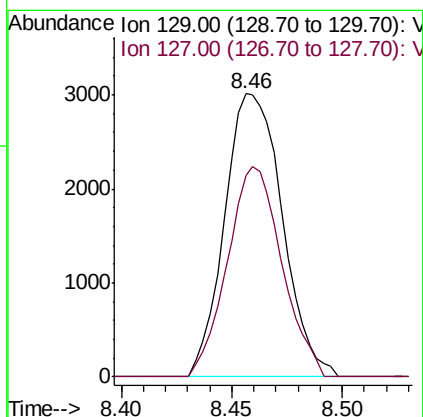
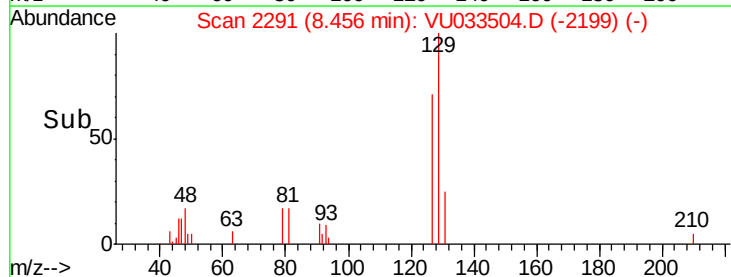
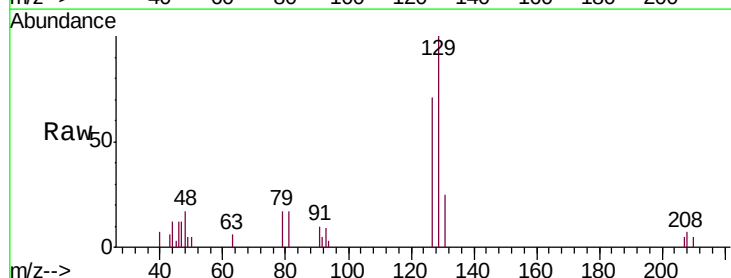
Instrument :
MSVOA_U
ClientSampleId :
MDL04

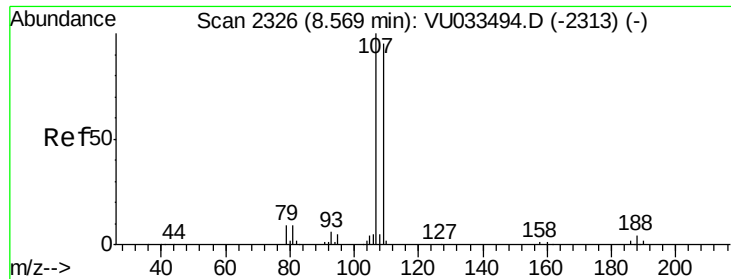
Tgt Ion: 43 Resp: 10854
Ion Ratio Lower Upper
43 100
58 56.3 45.8 68.6
57 14.7 15.8 23.6#
100 8.3 9.4 14.2#



#49
Dibromochloromethane
Concen: 2.181 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033504.D
Acq: 30 Jul 2019 19:57

Tgt Ion: 129 Resp: 5485
Ion Ratio Lower Upper
129 100
127 71.1 53.8 99.8





#50

1,2-Dibromoethane

Concen: 2.111 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

MDL04

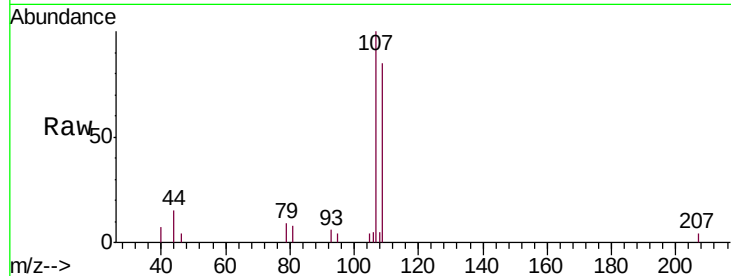
Tgt Ion:107 Resp: 5169

Ion Ratio Lower Upper

107 100

109 84.6 66.8 124.0

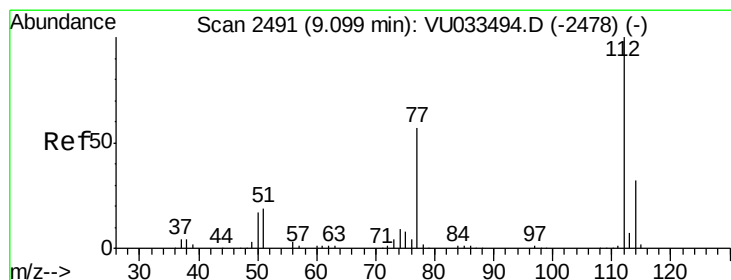
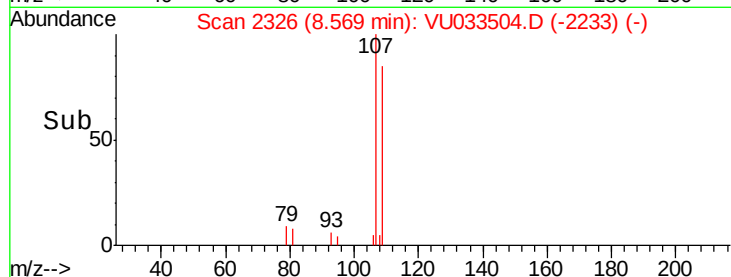
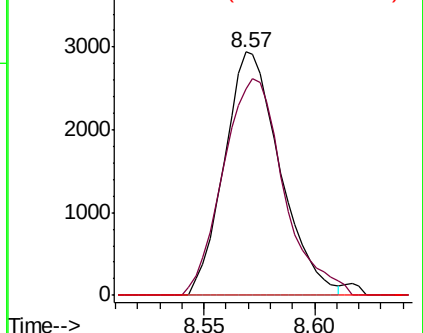
188 0.0 3.0 4.4#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 2.251 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

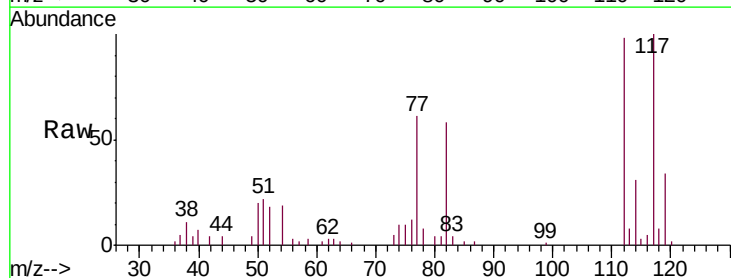
Tgt Ion:112 Resp: 13783

Ion Ratio Lower Upper

112 100

114 32.0 22.3 41.5

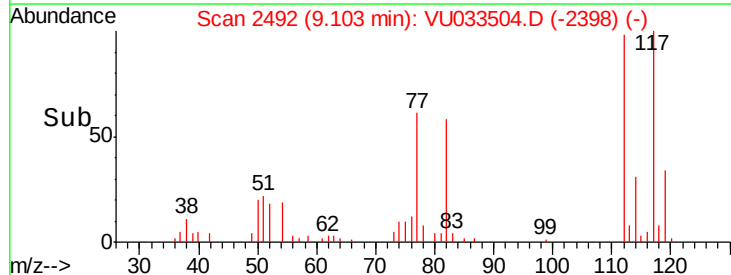
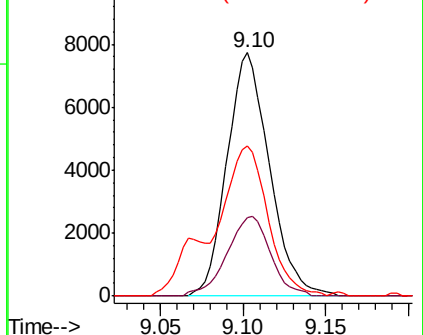
77 61.6 45.6 68.4

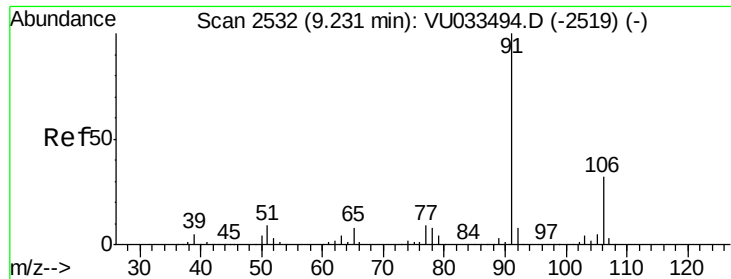


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 1.962 ug/L

RT: 9.24 min Scan# 2534

Delta R.T. 0.01 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

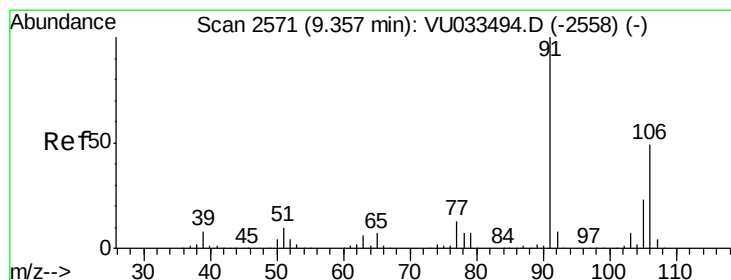
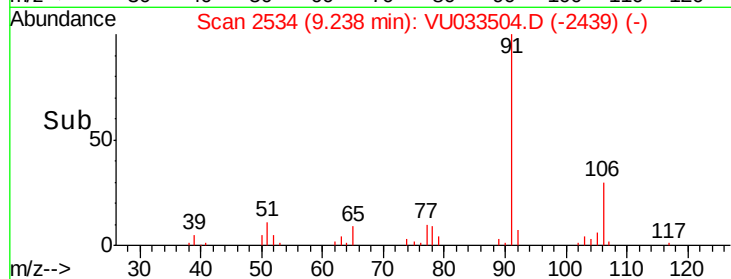
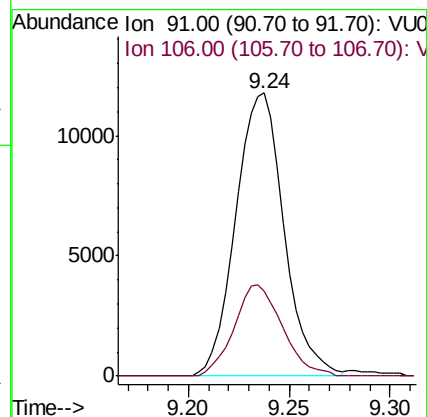
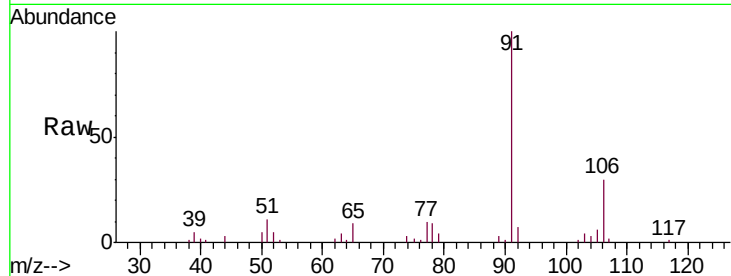
MDL04

Tgt Ion: 91 Resp: 19768

Ion Ratio Lower Upper

91 100

106 29.9 22.2 41.2



#53

m,p-Xylene

Concen: 1.980 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033504.D

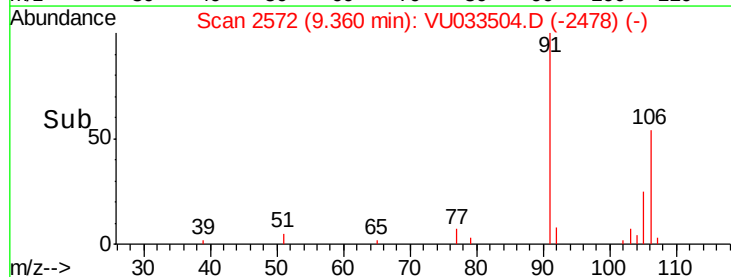
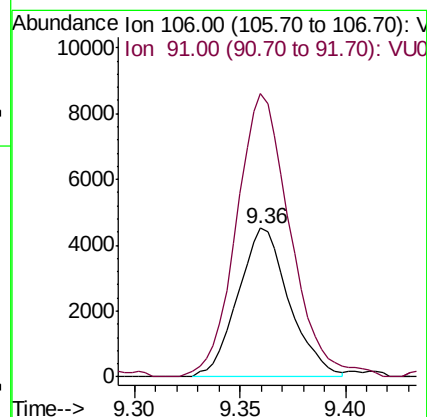
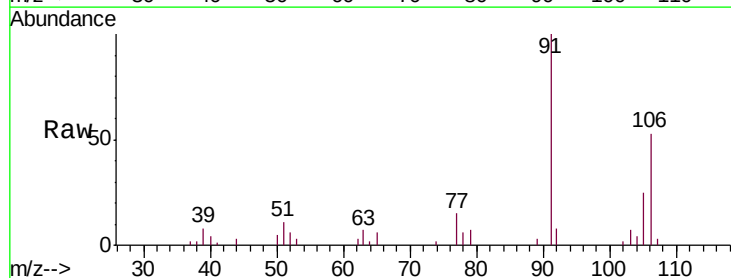
Acq: 30 Jul 2019 19:57

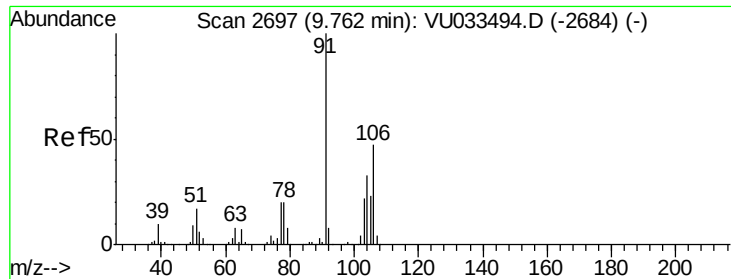
Tgt Ion: 106 Resp: 7655

Ion Ratio Lower Upper

106 100

91 190.2 143.0 265.6





#54

o-xylene

Concen: 1.841 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

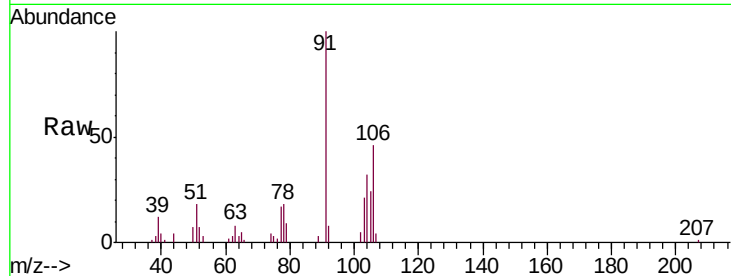
MDL04

Tgt Ion:106 Resp: 6906

Ion Ratio Lower Upper

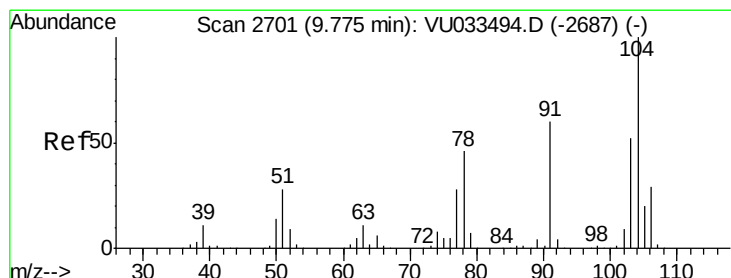
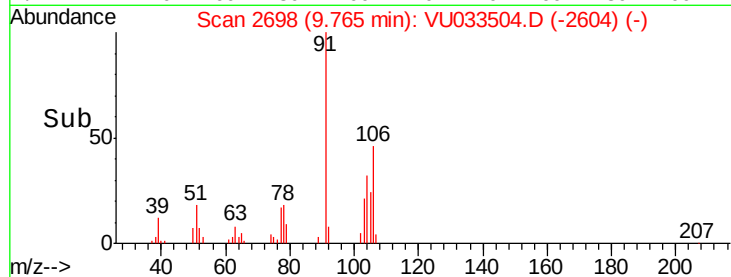
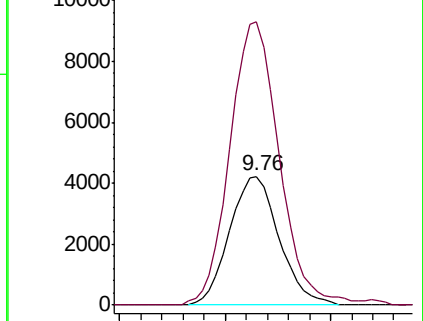
106 100

91 219.4 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.791 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033504.D

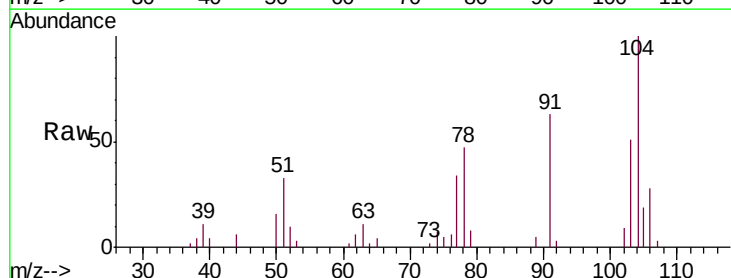
Acq: 30 Jul 2019 19:57

Tgt Ion:104 Resp: 11409

Ion Ratio Lower Upper

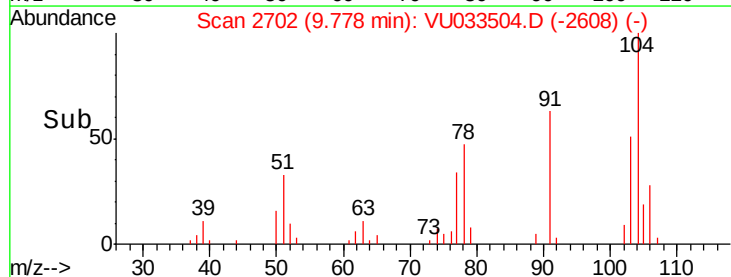
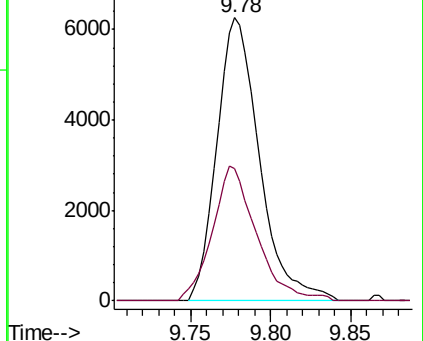
104 100

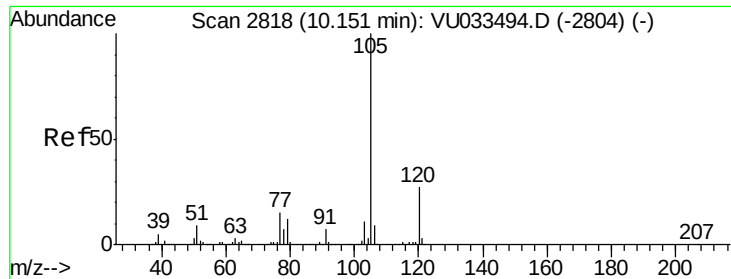
78 47.0 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.785 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampled :

MDL04

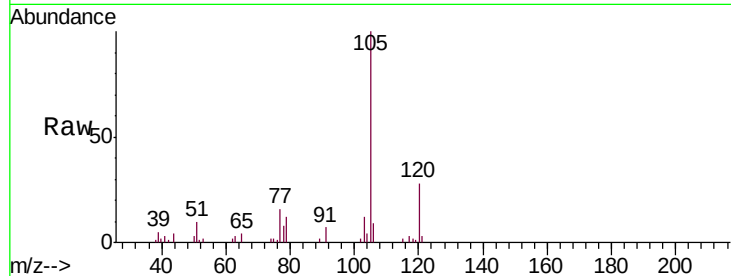
Tgt Ion: 105 Resp: 17500

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.0

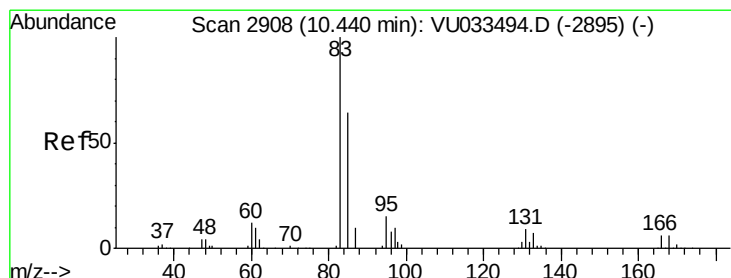
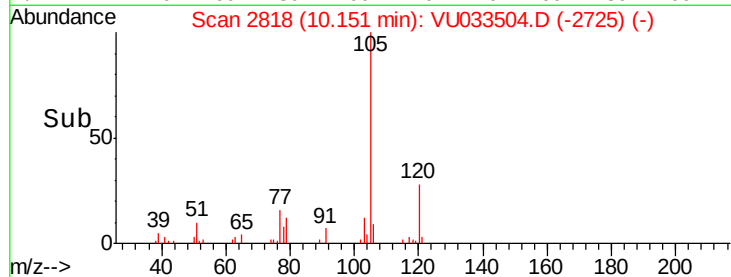
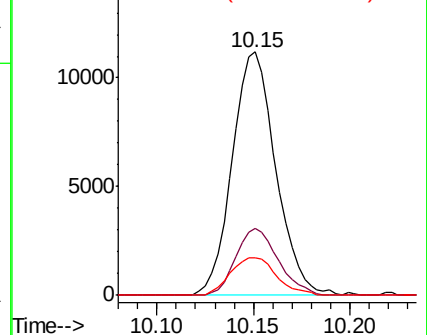
77 16.5 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 2.429 ug/L

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

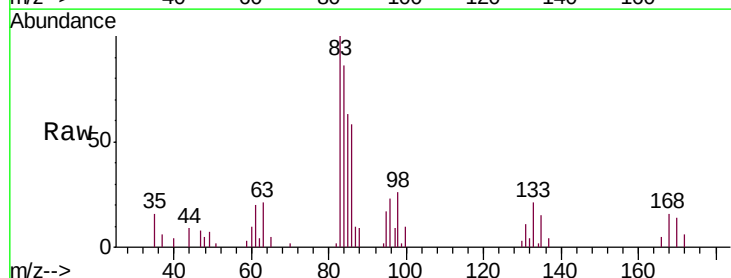
Tgt Ion: 83 Resp: 9686

Ion Ratio Lower Upper

83 100

85 62.6 45.4 84.4

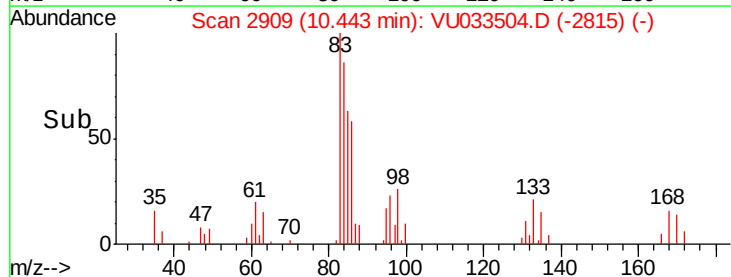
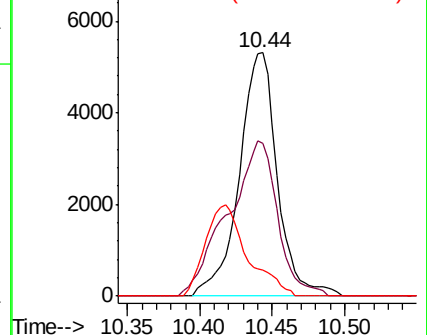
131 10.8 7.9 11.9

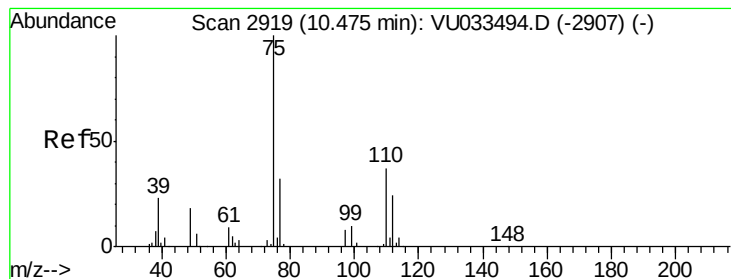


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.212 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

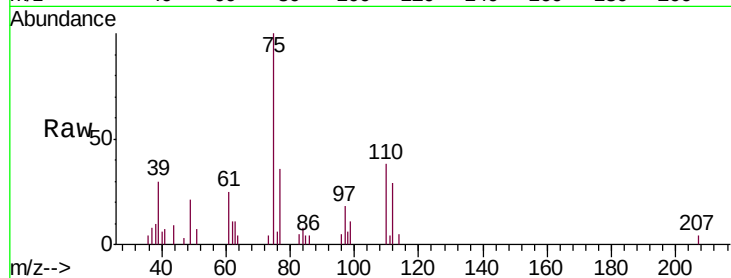
MDL04

Tgt Ion: 75 Resp: 6800

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU033494.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033494.D (-2907) (-)

10.48

4000

3000

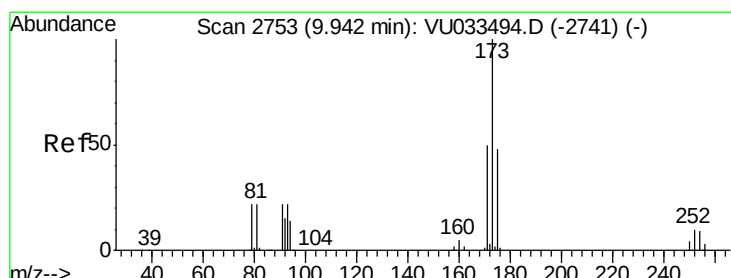
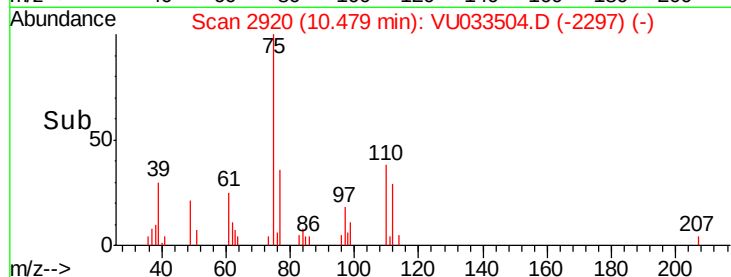
2000

1000

0

10.45 10.50

Time-->



#61

Bromoform

Concen: 2.110 ug/L

RT: 9.94 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

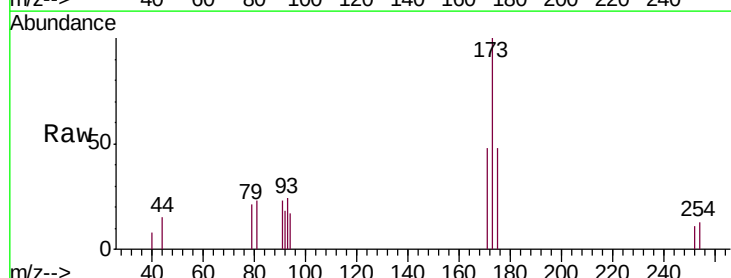
Tgt Ion: 173 Resp: 3782

Ion Ratio Lower Upper

173 100

175 44.3 38.7 58.1

254 10.3 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): VU033494.D (-2741) (-)

Ion 175.00 (174.70 to 175.70): VU033494.D (-2741) (-)

Ion 254.00 (253.70 to 254.70): VU033494.D (-2741) (-)

9.94

3000

2500

2000

1500

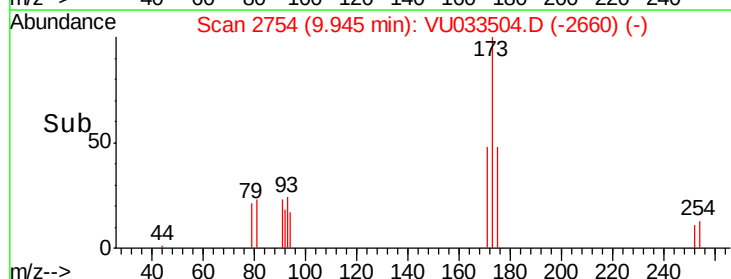
1000

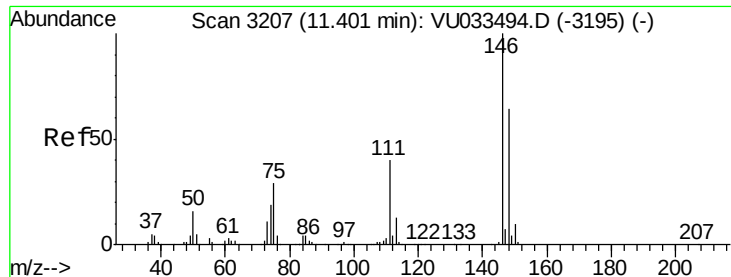
500

0

9.90 9.95

Time-->





#62

1,3-Dichlorobenzene

Concen: 2.224 ug/L

RT: 11.40 min Scan# 3208

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

MDL04

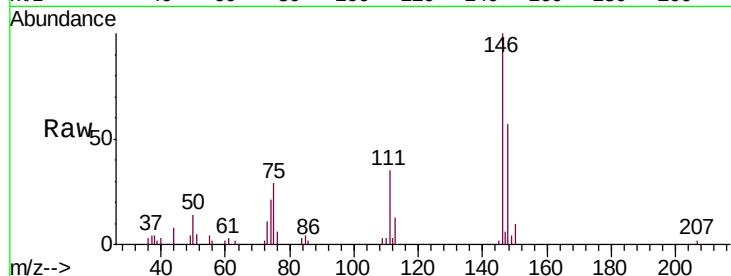
Tgt Ion:146 Resp: 10134

Ion Ratio Lower Upper

146 100

111 35.5 28.1 52.1

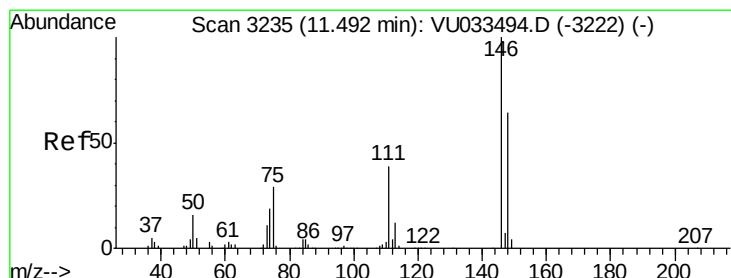
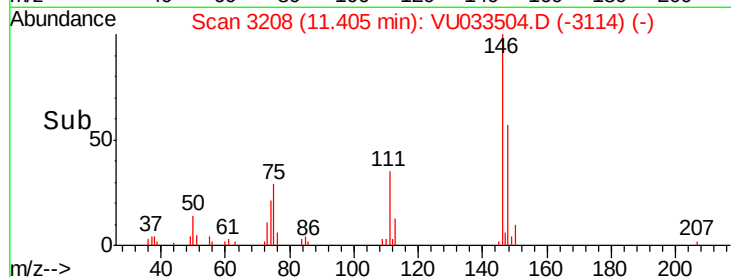
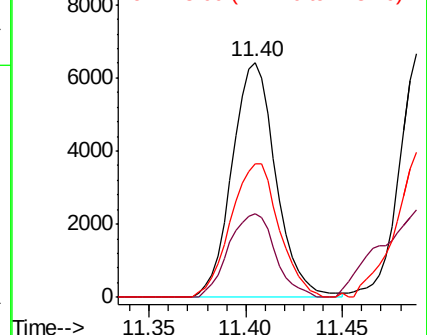
148 56.9 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 2.332 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

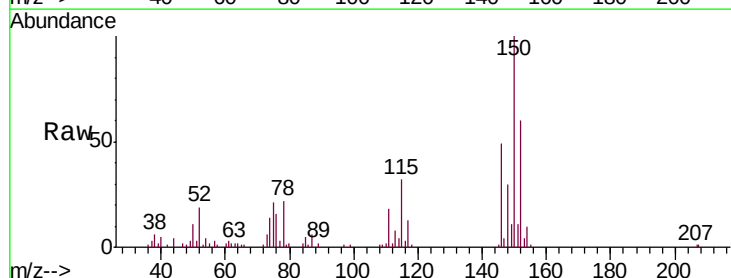
Tgt Ion:146 Resp: 11042

Ion Ratio Lower Upper

146 100

111 37.6 27.2 50.4

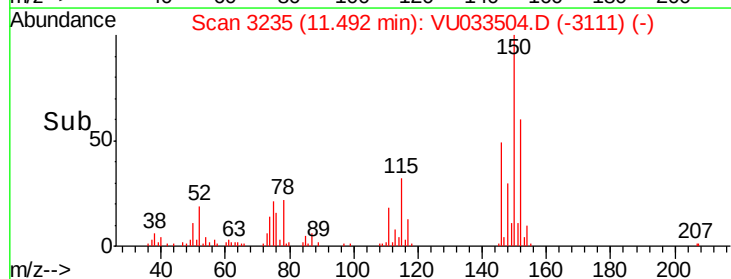
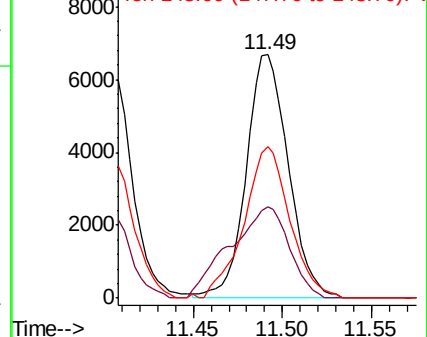
148 62.2 44.5 82.7

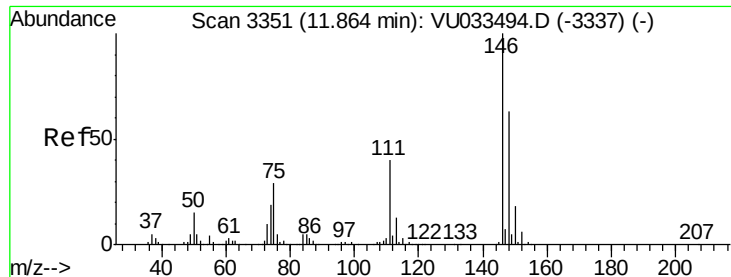


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 2.397 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

MDL04

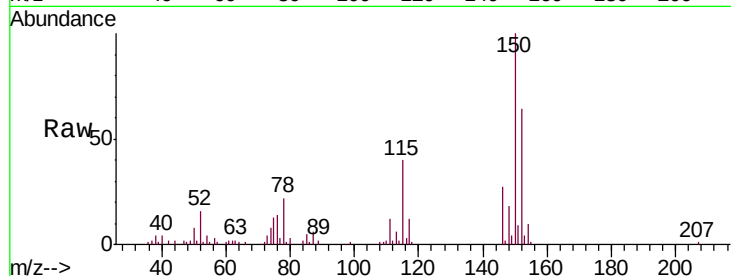
Tgt Ion:146 Resp: 11045

Ion Ratio Lower Upper

146 100

111 44.6 31.7 47.5

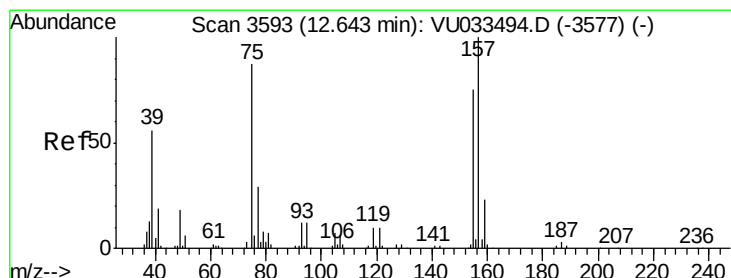
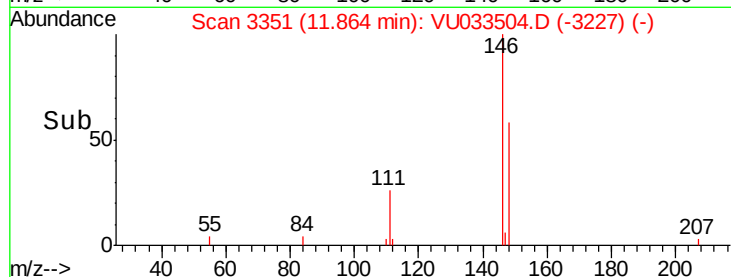
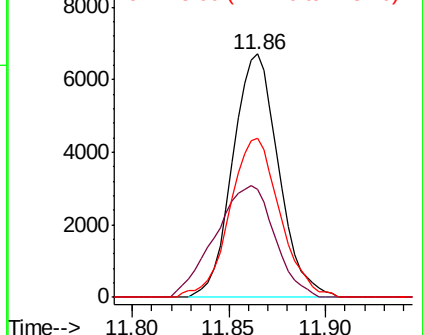
148 65.6 50.3 75.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 2.032 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

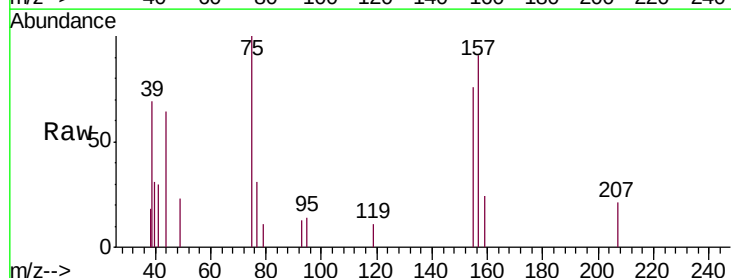
Tgt Ion: 75 Resp: 1730

Ion Ratio Lower Upper

75 100

155 76.1 69.4 104.0

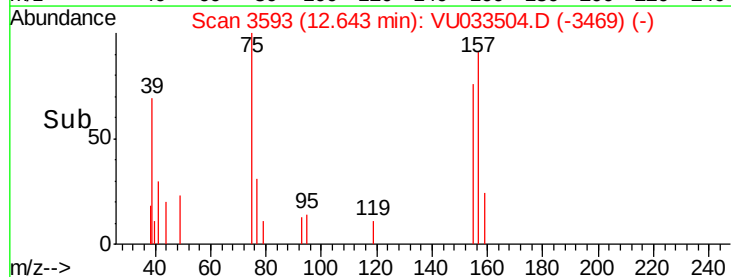
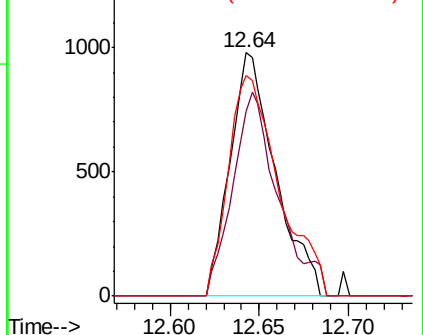
157 90.8 91.8 137.8#

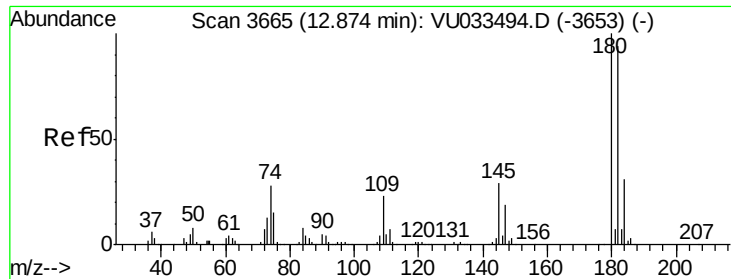


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

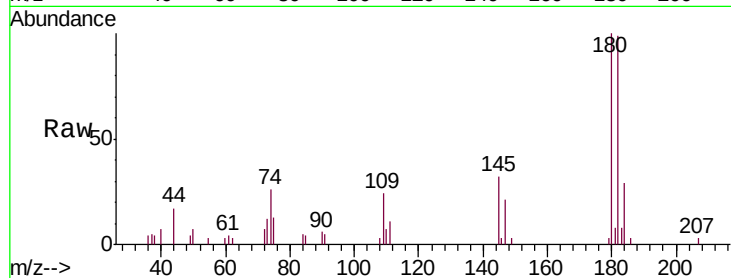




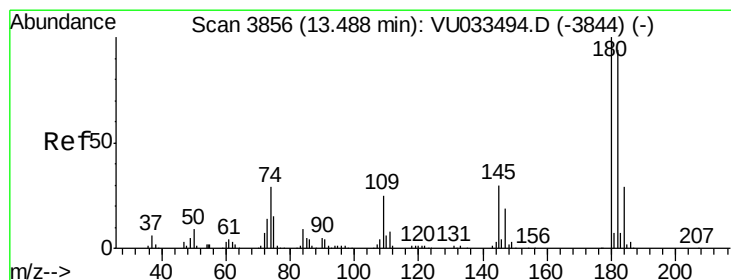
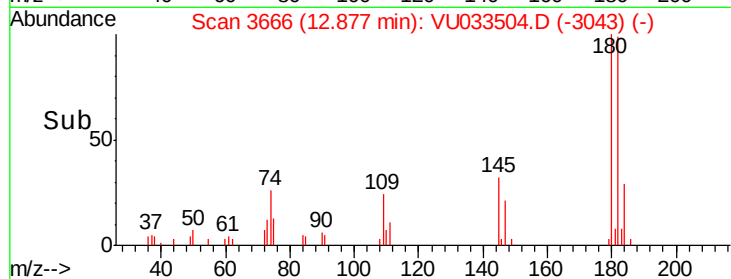
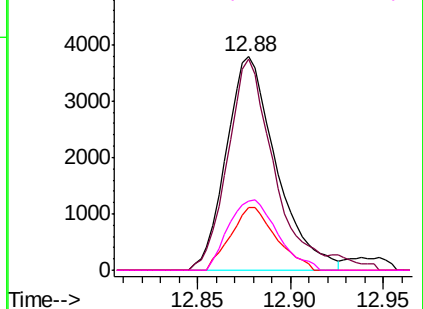
#67
 1,3,5-Trichlorobenzene
 Concen: 1.929 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion:	180	Resp:	7093
Ion	Ratio	Lower	Upper
180	100		
182	90.5	75.6	113.4
184	26.8	24.2	36.2
145	32.1	22.7	34.1

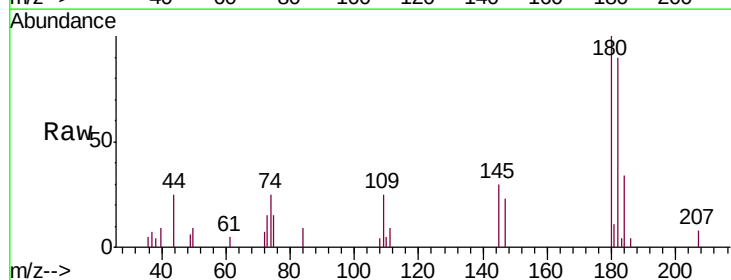


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

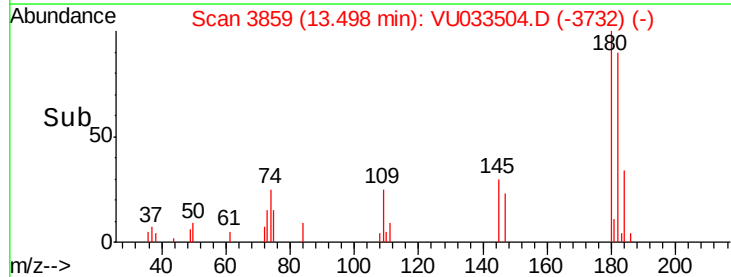
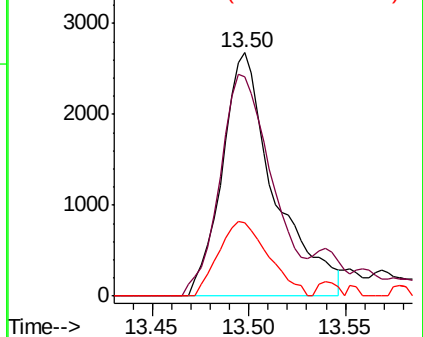


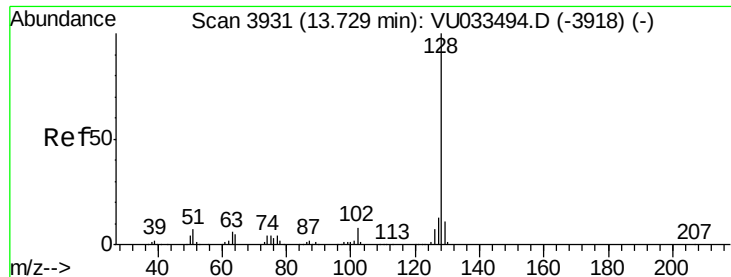
#68
 1,2,4-trichlorobenzene
 Concen: 1.606 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033504.D
 Acq: 30 Jul 2019 19:57

Tgt Ion:	180	Resp:	5045
Ion	Ratio	Lower	Upper
180	100		
182	90.6	75.8	113.8
145	29.1	24.3	36.5



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





#69

Naphthalene

Concen: 1.364 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

Instrument :

MSVOA_U

ClientSampleId :

MDL04

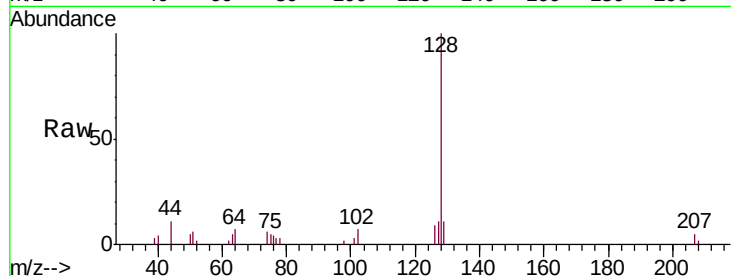
Tgt Ion:128 Resp: 12293

Ion Ratio Lower Upper

128 100

127 10.9 10.8 16.2

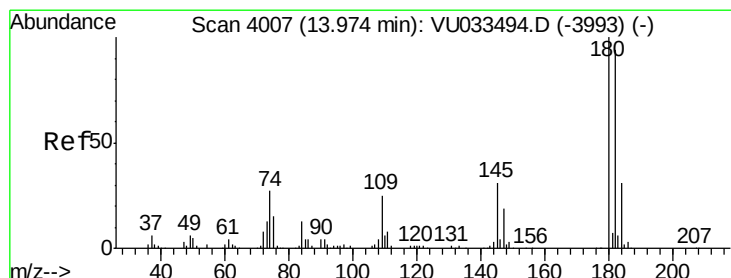
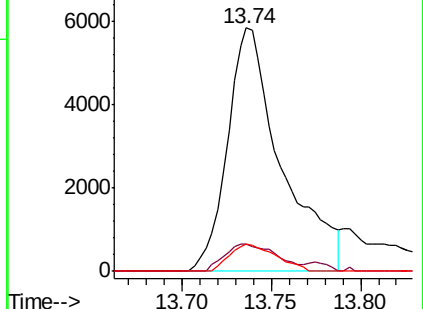
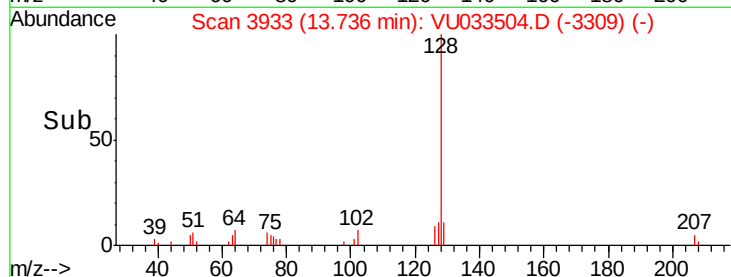
129 9.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.608 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.01 min

Lab File: VU033504.D

Acq: 30 Jul 2019 19:57

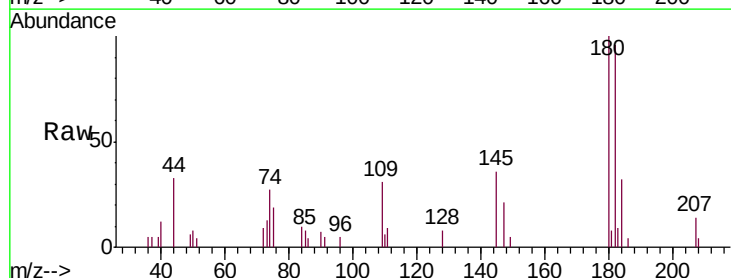
Tgt Ion:180 Resp: 5313

Ion Ratio Lower Upper

180 100

182 97.0 75.5 113.3

145 29.5 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

