

Data File : VU033501.D
Acq On : 30 Jul 2019 18:49
Operator : JC/SP
Sample : MDL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Quant Time: Jul 31 08:08:31 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	331841	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	326162	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	160425	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	108050	44.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.56%
7) Chloroethane-d5	1.67	69	93337	45.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.18%
11) 1,1-Dichloroethene-d2	2.26	63	147968	33.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.58%
21) 2-Butanone-d5	4.15	46	153749	96.21	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.21%
24) Chloroform-d	4.62	84	182903	45.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.46%
26) 1,2-Dichloroethane-d4	5.29	65	117724	45.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.94%
32) Benzene-d6	5.32	84	380657	47.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.16%
36) 1,2-Dichloropropane-d6	6.31	67	119895	47.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.60%
41) Toluene-d8	7.55	98	346143	45.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.38%
43) trans-1,3-Dichloropropene-	7.83	79	56514	44.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.90%
47) 2-Hexanone-d5	8.29	63	112062	93.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.12%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	175539	44.92	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.84%
64) 1,2-Dichlorobenzene-d4	11.85	152	138890	47.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.56%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	8417	2.690 ug/L	99
3) Chloromethane	1.32	50	9236	2.930 ug/L	96
5) Vinyl chloride	1.40	62	9478	2.805 ug/L #	68
6) Bromomethane	1.62	94	7414	2.487 ug/L	95
8) Chloroethane	1.69	64	5363	2.612 ug/L	90
9) Trichlorofluoromethane	1.87	101	12139	2.746 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7297	3.256 ug/L #	83
12) 1,1-Dichloroethene	2.27	96	6749	3.141 ug/L #	1
13) Acetone	2.31	43	8390	5.132 ug/L	97
14) Carbon disulfide	2.46	76	19210	2.850 ug/L	97
15) Methyl Acetate	2.60	43	6889	2.647 ug/L	95
16) Methylene chloride	2.68	84	7195	2.931 ug/L	94
17) trans-1,2-Dichloroethene	2.97	96	6416	2.850 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	17599	2.563 ug/L	97
19) 1,1-Dichloroethane	3.42	63	11749	2.780 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	6721	2.660 ug/L	99
23) Bromochloromethane	4.53	128	3406	2.583 ug/L	83

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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)
25) Chloroform	4.65	83	15866	3.568	ug/L	98
27) 1,2-Dichloroethane	5.39	62	9351	2.731	ug/L	97
29) Cyclohexane	4.97	56	8949	2.515	ug/L #	93
30) 1,1,1-Trichloroethane	4.89	97	10260	2.734	ug/L	97
31) Carbon tetrachloride	5.11	117	8371	2.561	ug/L	98
33) Benzene	5.37	78	26125	2.777	ug/L	100
34) Trichloroethene	6.17	95	6714	2.705	ug/L	95
35) Methylcyclohexane	6.40	83	9946	2.568	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6974	2.769	ug/L #	93
38) Bromodichloromethane	6.74	83	8892	2.731	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	10467	2.663	ug/L	94
40) 4-Methyl-2-pentanone	7.44	43	17734	5.100	ug/L	99
42) Toluene	7.62	91	27442	2.712	ug/L	96
44) trans-1,3-Dichloropropene	7.86	75	9094	2.560	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	6455	2.700	ug/L	98
46) Tetrachloroethene	8.22	164	5558	2.743	ug/L	94
48) 2-Hexanone	8.35	43	15198	5.407	ug/L	92
49) Dibromochloromethane	8.46	129	6984	2.567	ug/L	99
50) 1,2-Dibromoethane	8.57	107	7522	2.840	ug/L #	94
51) Chlorobenzene	9.10	112	17718	2.675	ug/L	99
52) Ethylbenzene	9.23	91	27081	2.486	ug/L	97
53) m,p-Xylene	9.36	106	10569	2.527	ug/L	84
54) o-xylene	9.76	106	9527	2.348	ug/L	97
55) Styrene	9.78	104	14680	2.130	ug/L	99
56) Isopropylbenzene	10.15	105	24314	2.294	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	12122	2.811	ug/L #	98
59) 1,2,3-Trichloropropane	10.48	75	8833	2.657	ug/L	99
61) Bromoform	9.94	173	5319	2.745	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	14238	2.890	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	15138	2.957	ug/L	97
65) 1,2-Dichlorobenzene	11.86	146	14660	2.943	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	2610	2.836	ug/L	84
67) 1,3,5-Trichlorobenzene	12.88	180	10483	2.637	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	7643	2.250	ug/L	93
69) Naphthalene	13.74	128	17824	1.829	ug/L #	94
70) 1,2,3-Trichlorobenzene	13.98	180	8307	2.326	ug/L	98

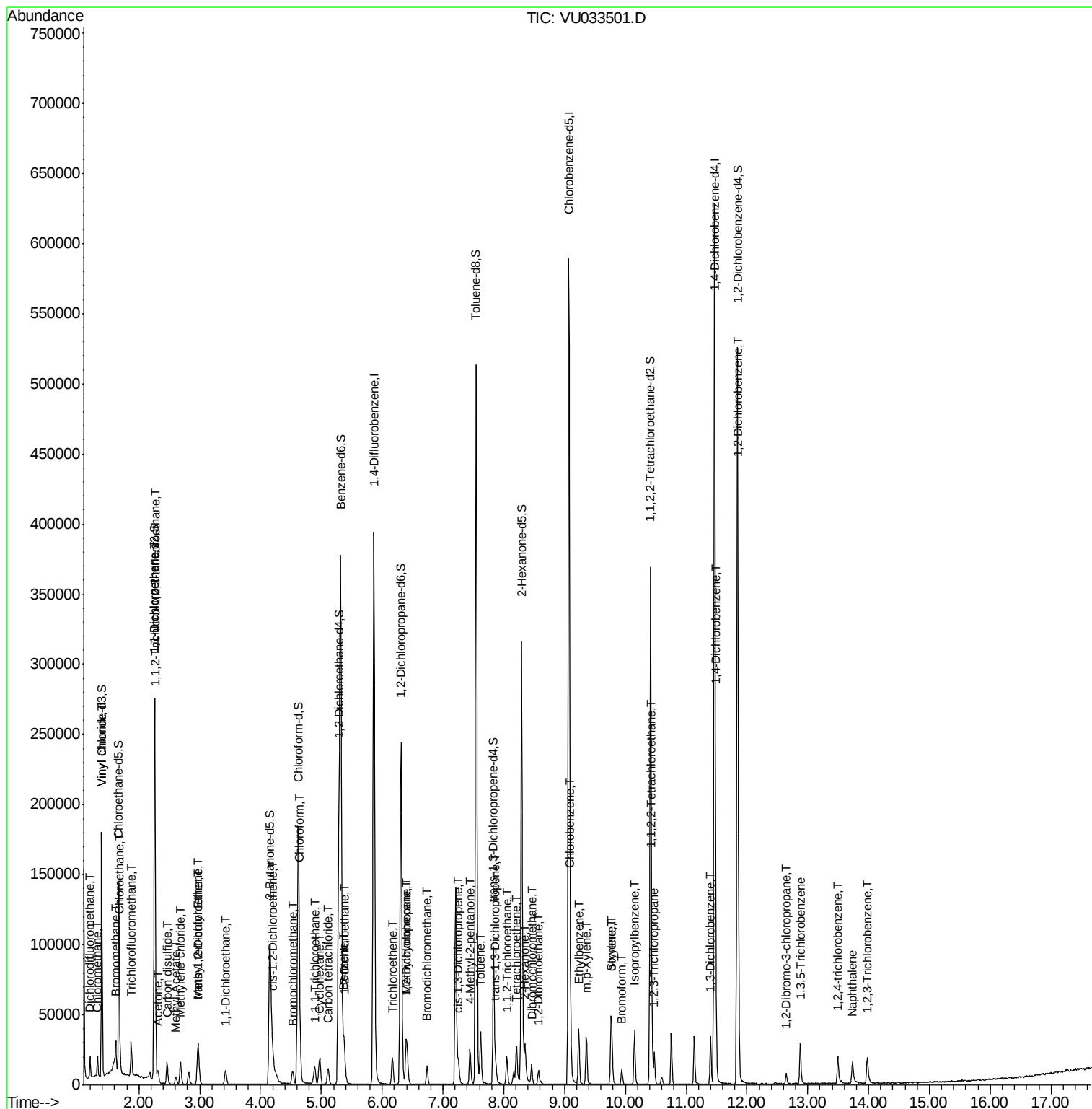
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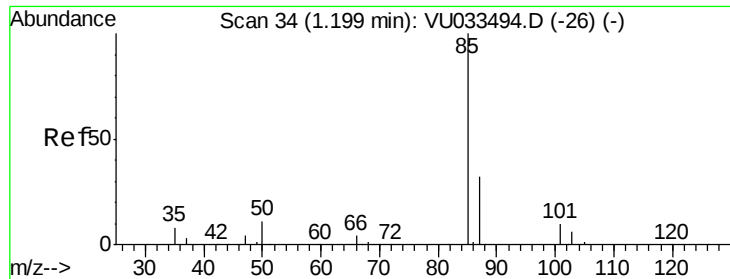
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ClientSampleId :
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#2

Dichlorodifluoromethane

Concen: 2.690 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

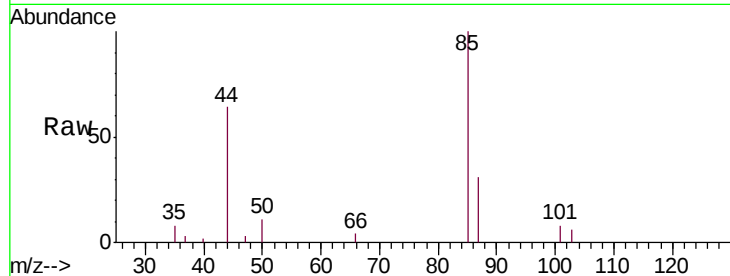
MDL01

Tgt Ion: 85 Resp: 8417

Ion Ratio Lower Upper

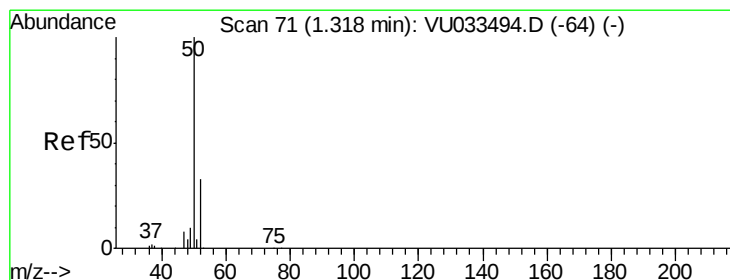
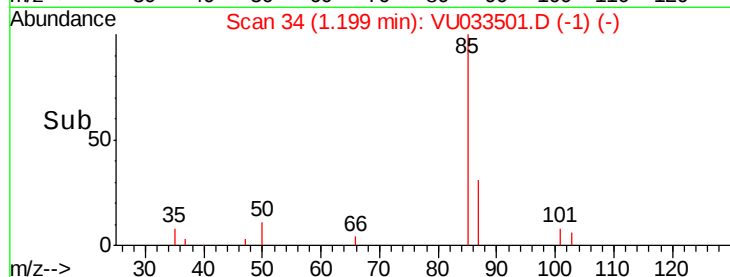
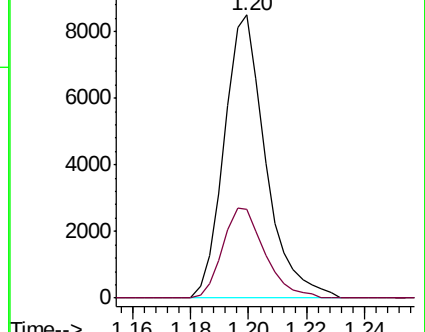
85 100

87 32.2 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033494.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033494.D (-26) (-)



#3

Chloromethane

Concen: 2.930 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033501.D

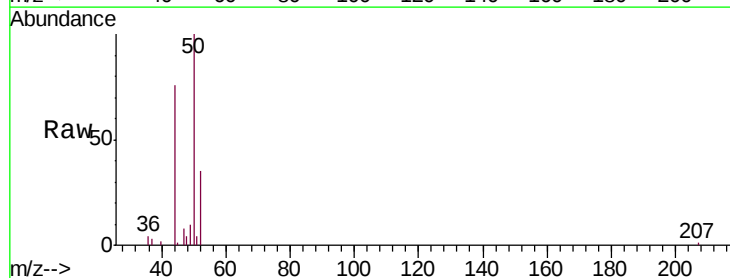
Acq: 30 Jul 2019 18:49

Tgt Ion: 50 Resp: 9236

Ion Ratio Lower Upper

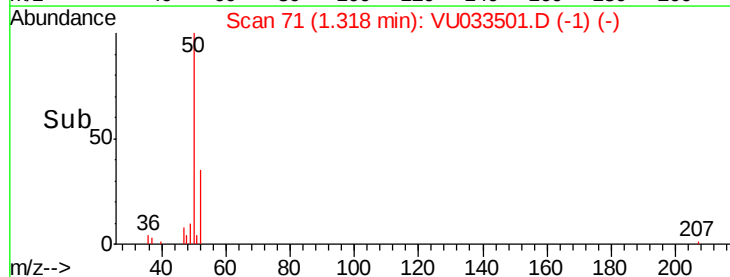
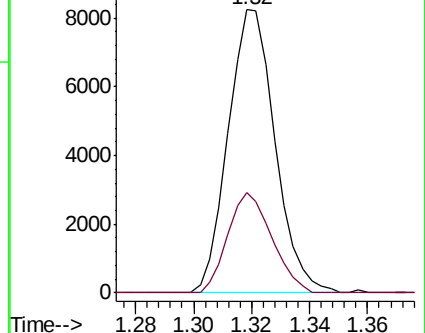
50 100

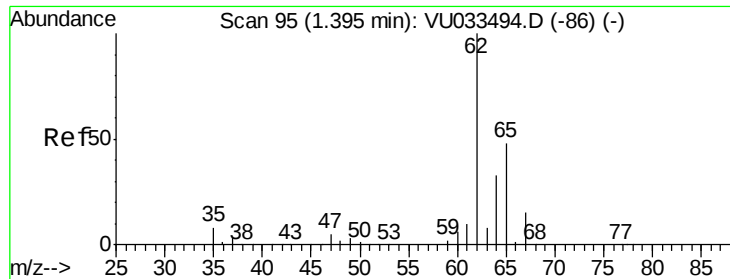
52 35.4 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033494.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033494.D (-64) (-)





#5

Vinyl chloride

Concen: 2.805 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

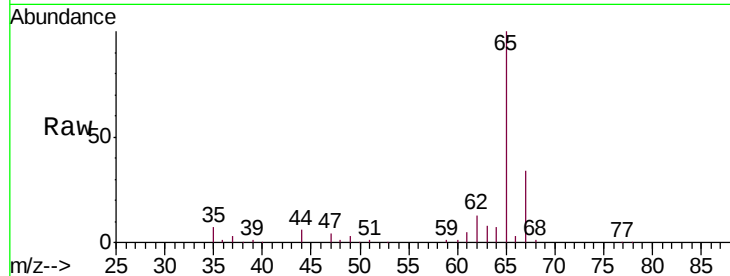
MDL01

Tgt Ion: 62 Resp: 9478

Ion Ratio Lower Upper

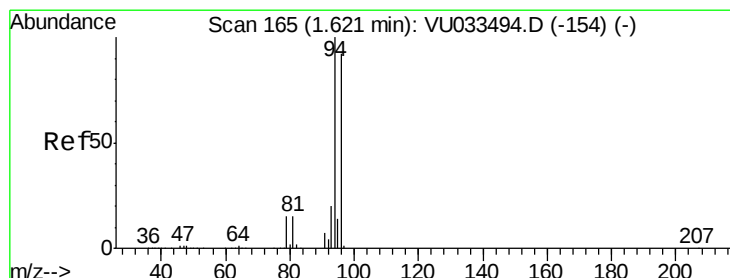
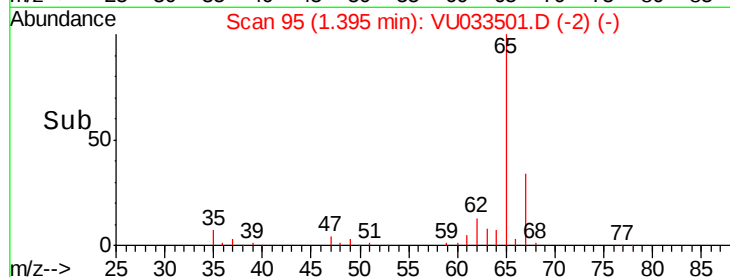
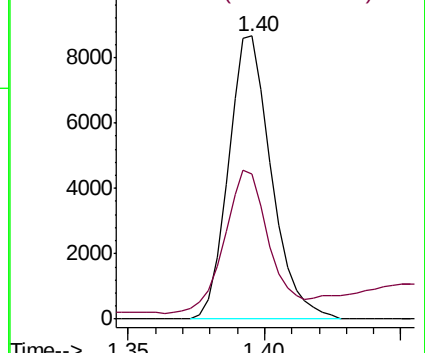
62 100

64 51.4 23.4 43.4#



Abundance Ion 62.00 (61.70 to 62.70): VU033501.D (-2) (-)

Ion 64.00 (63.70 to 64.70): VU033501.D (-2) (-)



#6

Bromomethane

Concen: 2.487 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033501.D

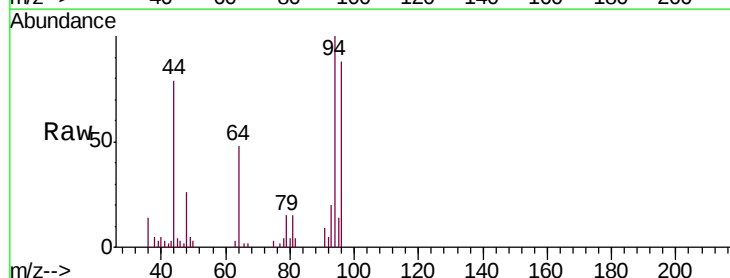
Acq: 30 Jul 2019 18:49

Tgt Ion: 94 Resp: 7414

Ion Ratio Lower Upper

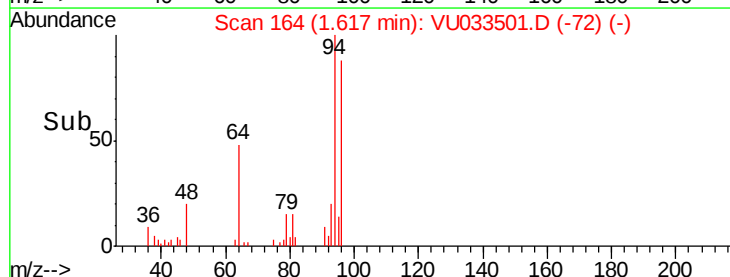
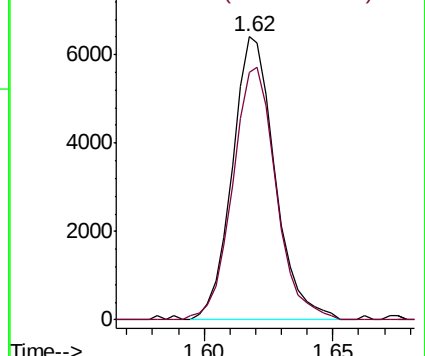
94 100

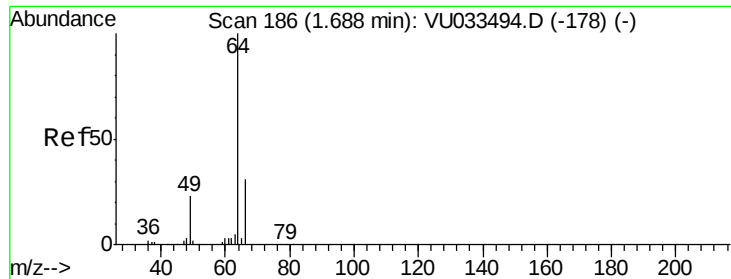
96 87.6 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033501.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU033501.D (-72) (-)





#8

Chloroethane

Concen: 2.612 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

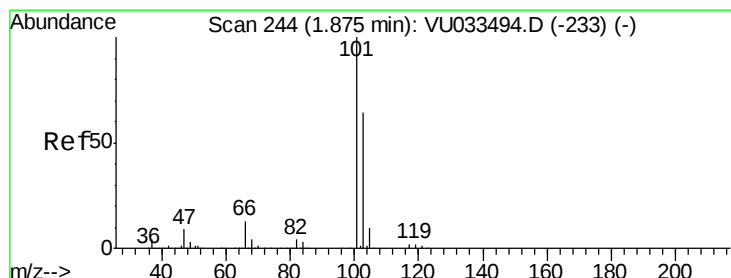
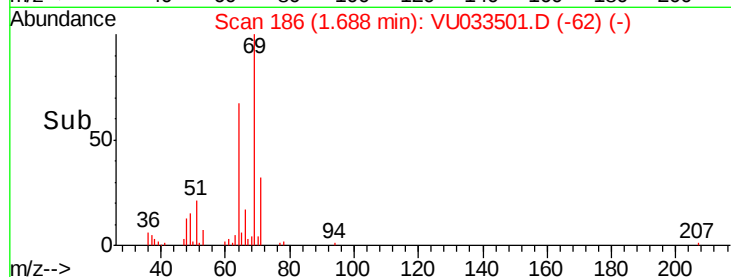
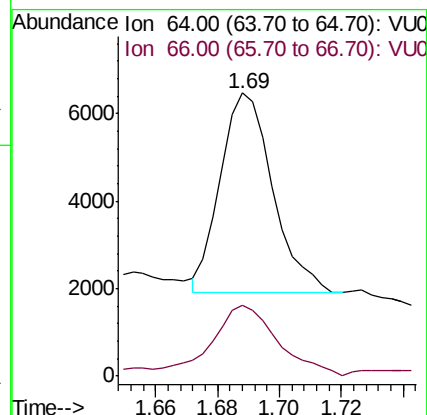
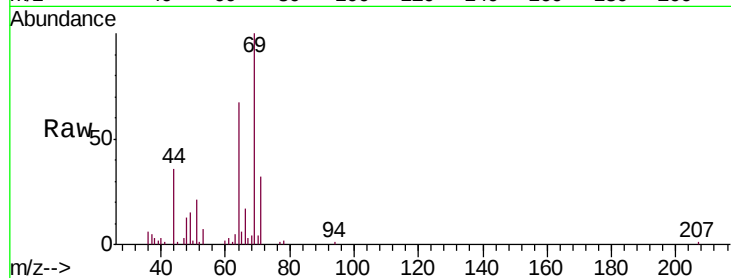
MDL01

Tgt Ion: 64 Resp: 5363

Ion Ratio Lower Upper

64 100

66 25.0 21.1 39.3



#9

Trichlorofluoromethane

Concen: 2.746 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033501.D

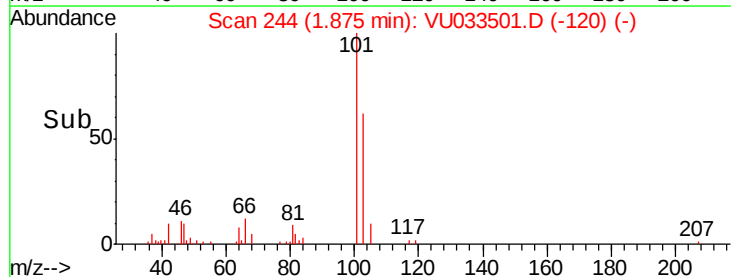
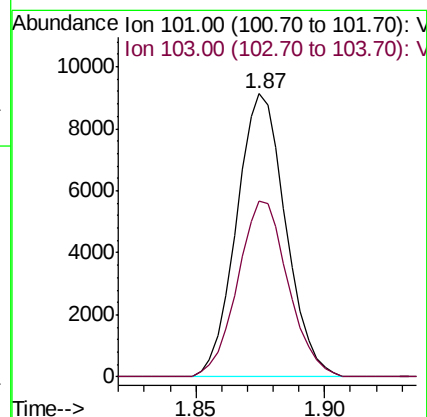
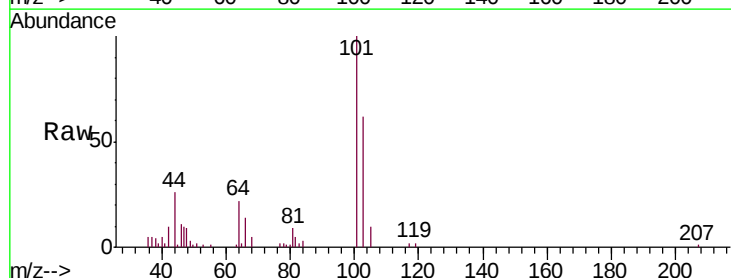
Acq: 30 Jul 2019 18:49

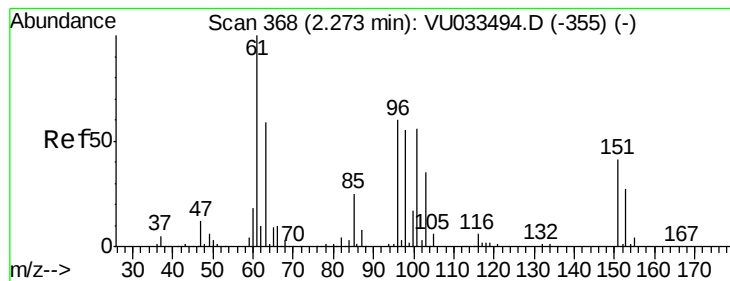
Tgt Ion: 101 Resp: 12139

Ion Ratio Lower Upper

101 100

103 63.8 51.6 77.4





#10

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

Concen: 3.256 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

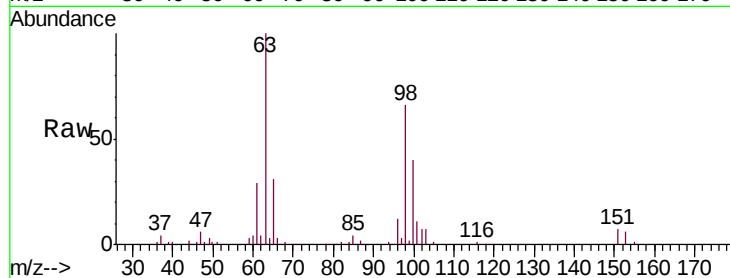
Tgt Ion:101 Resp: 7297

Ion Ratio Lower Upper

101 100

85 32.3 35.8 53.8#

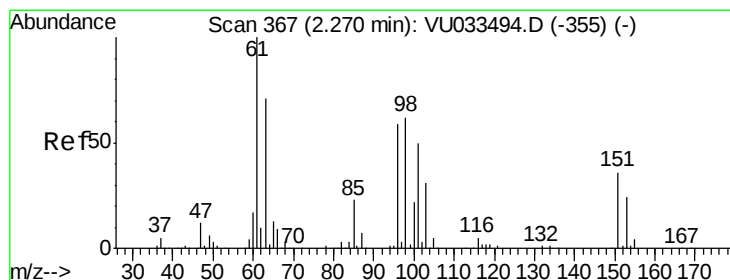
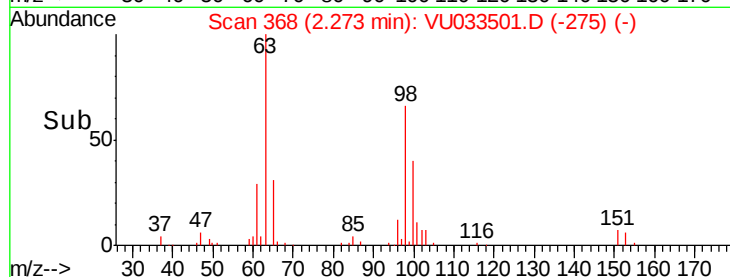
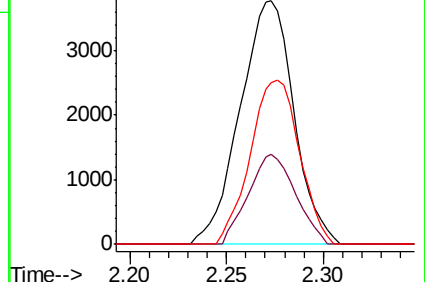
151 61.6 60.1 90.1



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: 3.141 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

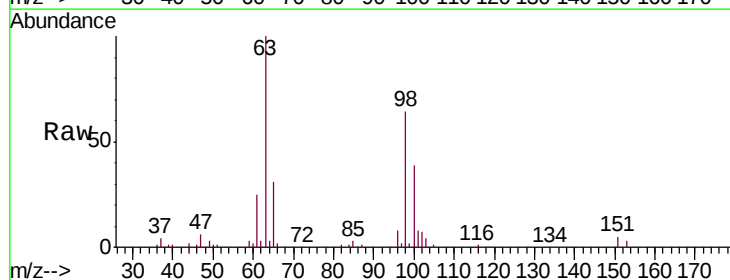
Tgt Ion: 96 Resp: 6749

Ion Ratio Lower Upper

96 100

61 306.2 119.3 221.5#

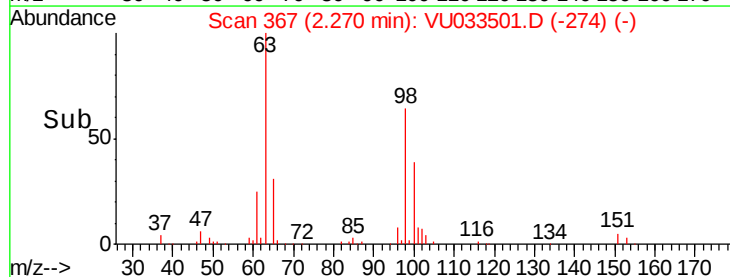
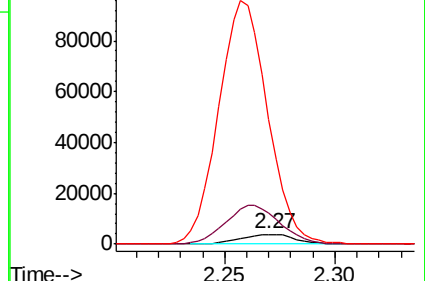
63 1248.8 86.6 160.8#

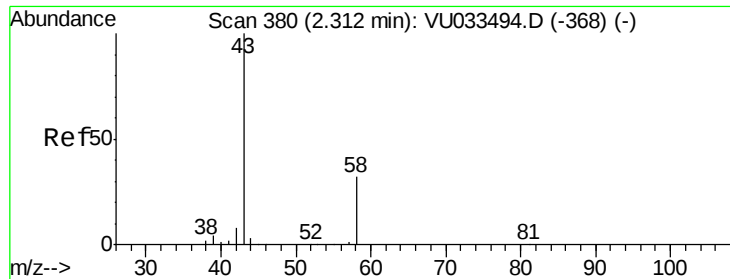


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.132 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

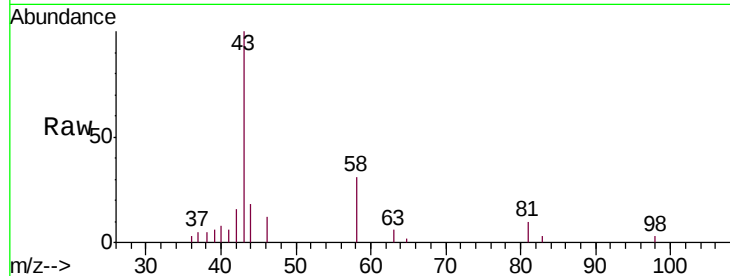
MDL01

Tgt Ion: 43 Resp: 8390

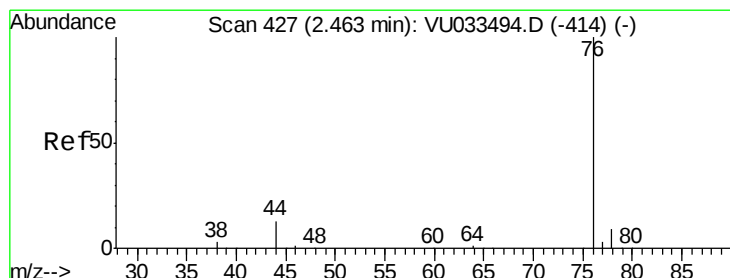
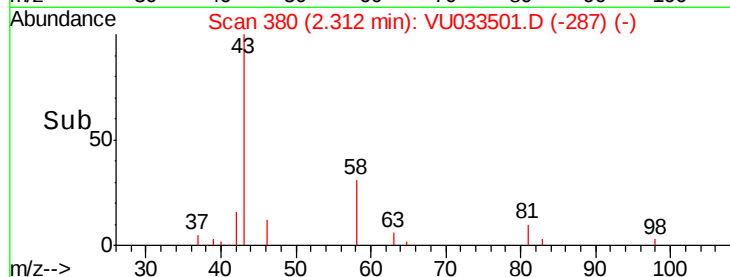
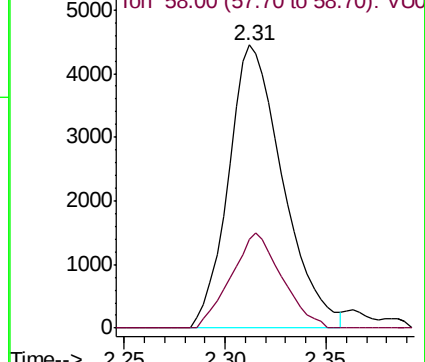
Ion Ratio Lower Upper

43 100

58 31.3 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU033494.D (-368) (-)



#14

Carbon disulfide

Concen: 2.850 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033501.D

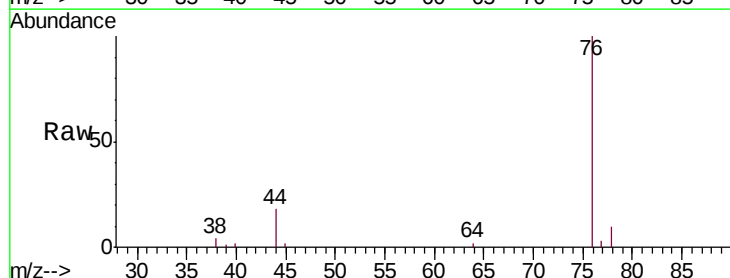
Acq: 30 Jul 2019 18:49

Tgt Ion: 76 Resp: 19210

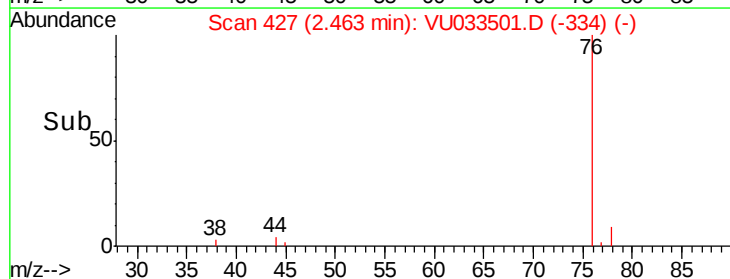
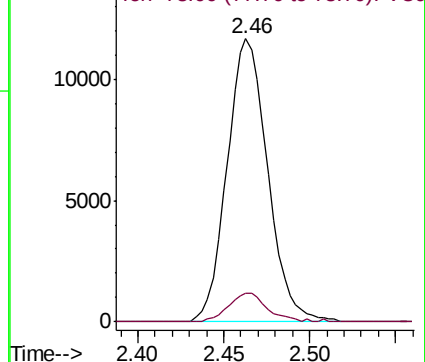
Ion Ratio Lower Upper

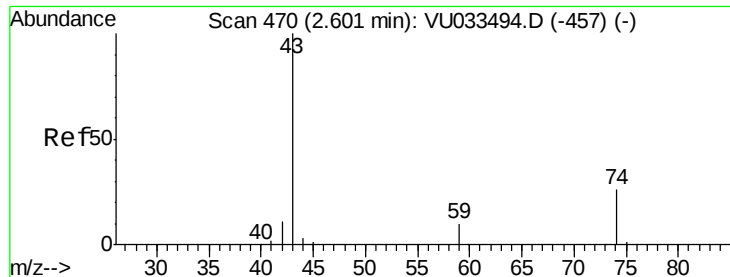
76 100

78 10.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033494.D (-414) (-)





#15

Methyl Acetate

Concen: 2.647 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

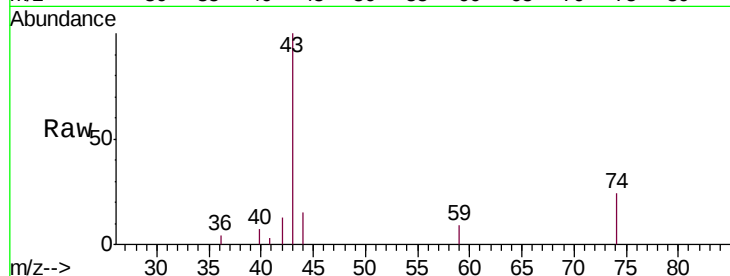
MDL01

Tgt Ion: 43 Resp: 6889

Ion Ratio Lower Upper

43 100

74 22.3 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VU033501.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033501.D (-377) (-)

2.60

3000

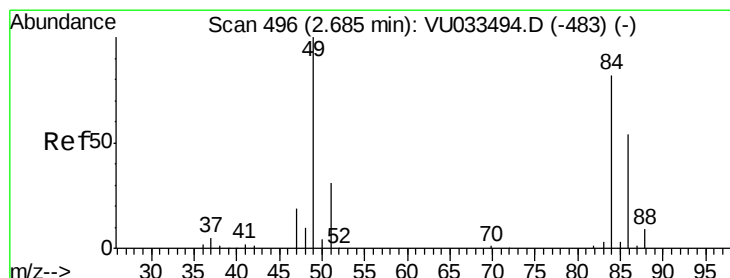
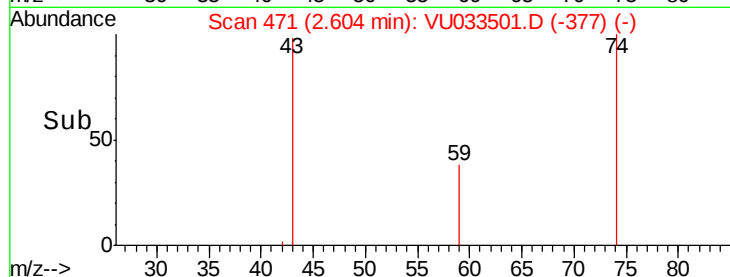
2000

1000

0

Time-->

2.55 2.60 2.65



#16

Methylene chloride

Concen: 2.931 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

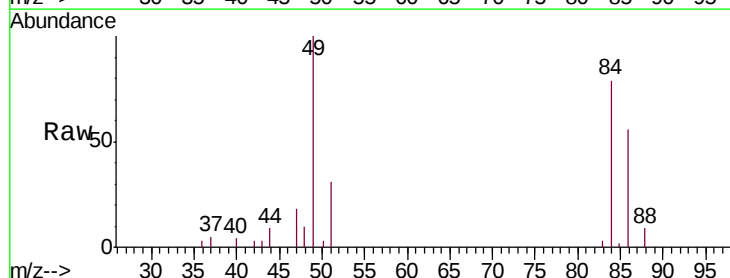
Tgt Ion: 84 Resp: 7195

Ion Ratio Lower Upper

84 100

86 71.5 45.7 84.9

49 126.8 85.0 158.0



Abundance Ion 84.00 (83.70 to 84.70): VU033501.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU033501.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033501.D (-403) (-)

2.68

6000

5000

4000

3000

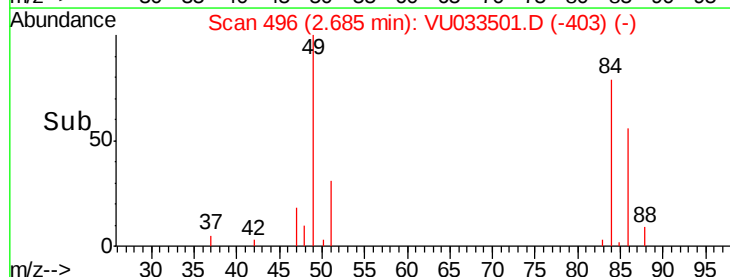
2000

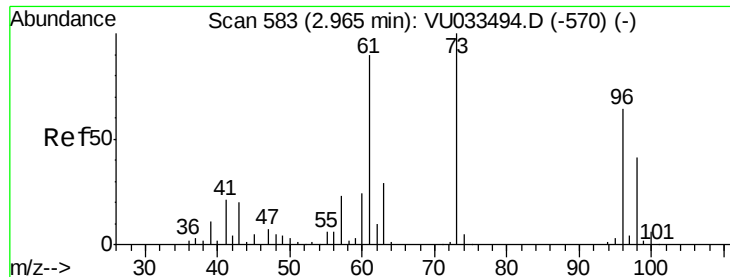
1000

0

Time-->

2.65 2.70 2.75





#17

trans-1,2-Dichloroethene

Concen: 2.850 ug/L

RT: 2.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

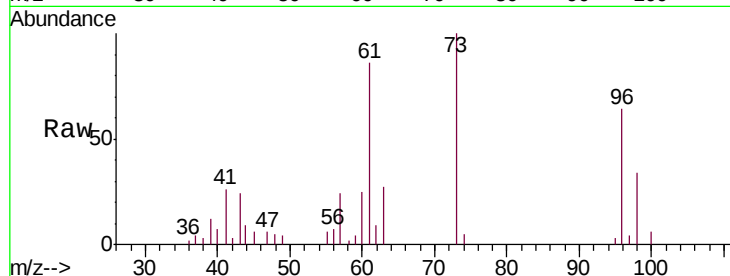
Tgt Ion: 96 Resp: 6416

Ion Ratio Lower Upper

96 100

61 133.8 98.3 182.5

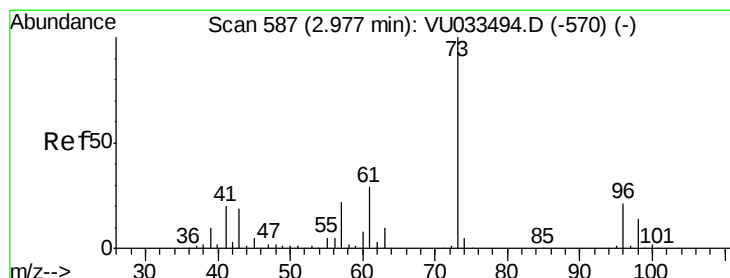
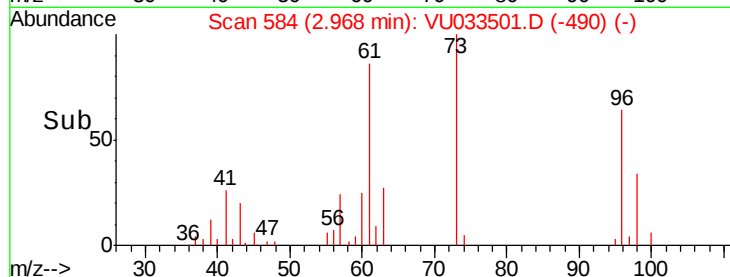
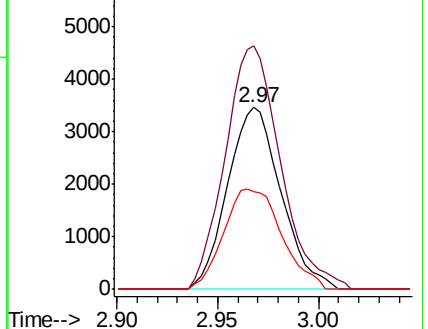
98 53.5 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU033494.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033494.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033494.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 2.563 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

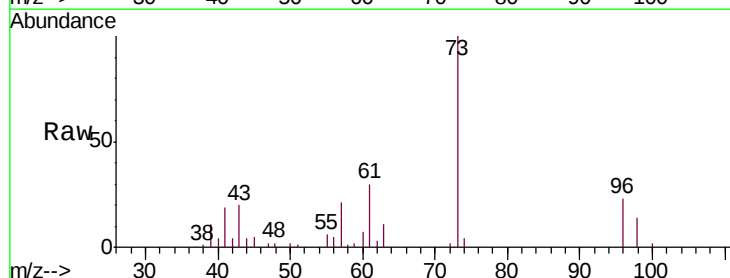
Tgt Ion: 73 Resp: 17599

Ion Ratio Lower Upper

73 100

43 20.6 15.4 23.2

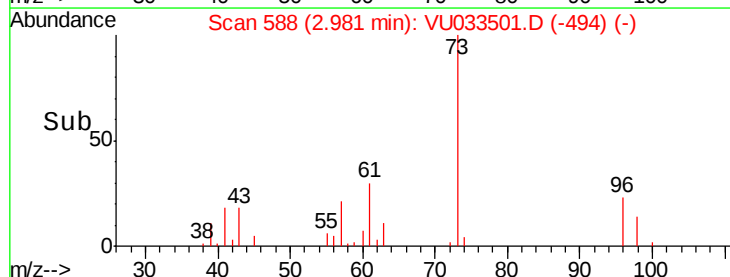
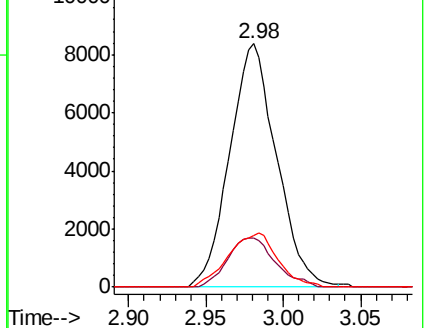
57 23.6 17.4 26.2

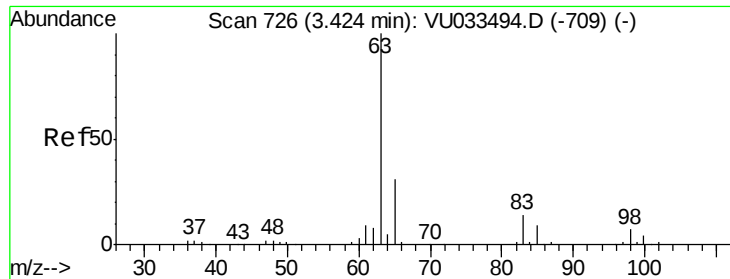


Abundance Ion 73.00 (72.70 to 73.70): VU033494.D (-570) (-)

Ion 43.00 (42.70 to 43.70): VU033494.D (-570) (-)

Ion 57.00 (56.70 to 57.70): VU033494.D (-570) (-)

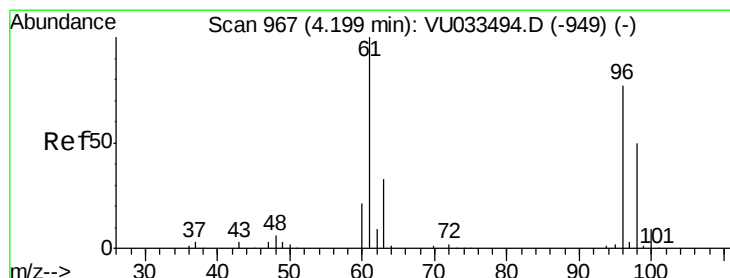
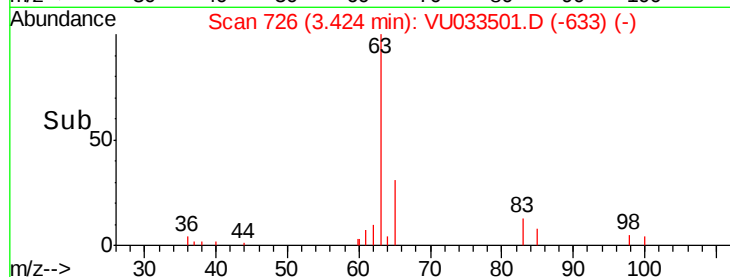
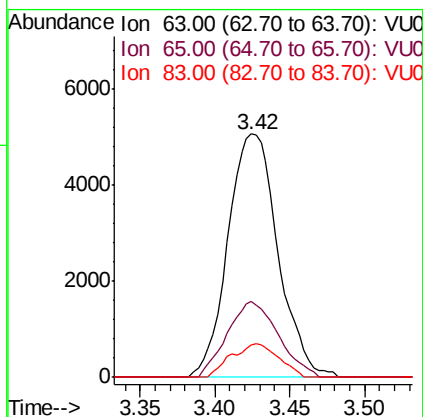
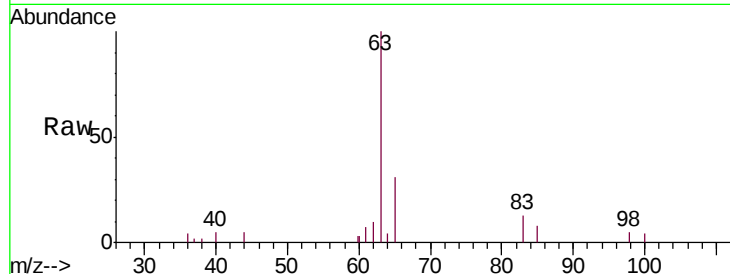




#19
 1,1-Dichloroethane
 Concen: 2.780 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

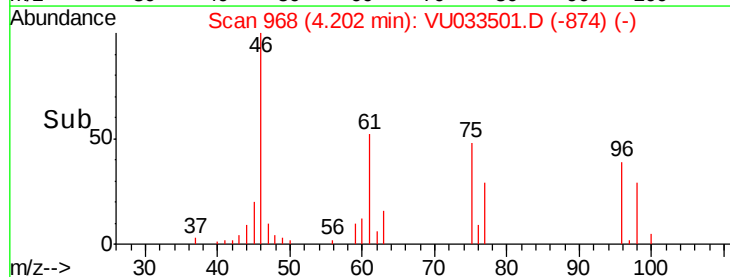
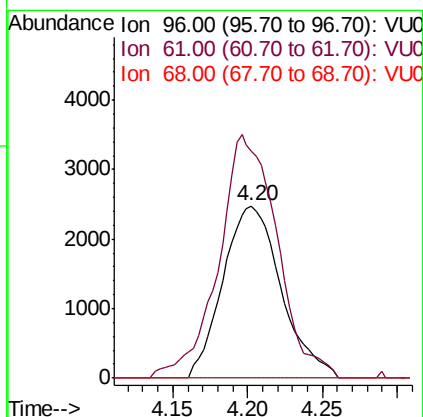
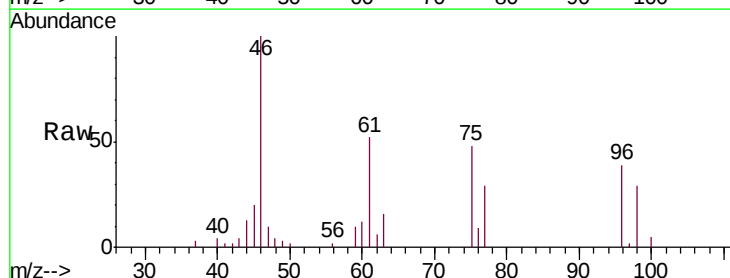
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

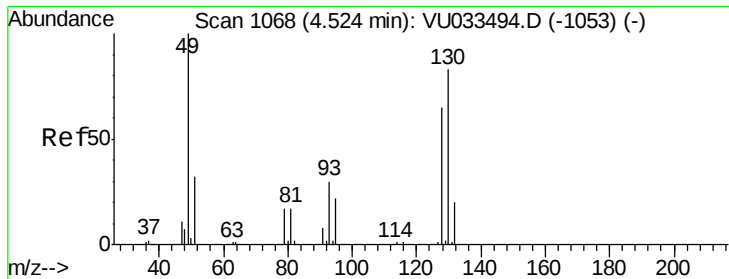
Tgt Ion: 63 Resp: 11749
 Ion Ratio Lower Upper
 63 100
 65 31.1 22.0 40.8
 83 13.1 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.660 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 96 Resp: 6721
 Ion Ratio Lower Upper
 96 100
 61 131.9 91.3 169.6
 68 0.0 0.0 0.0





#23

Bromochloromethane

Concen: 2.583 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion:128 Resp: 3406

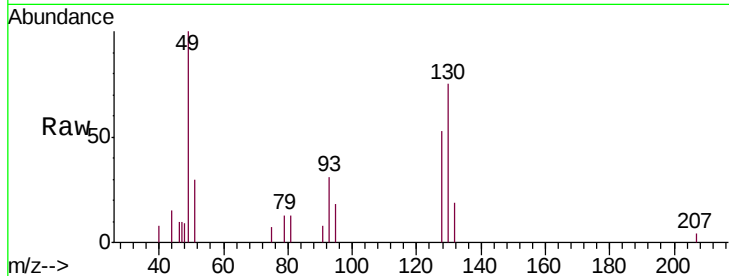
Ion Ratio Lower Upper

128 100

49 187.0 108.4 201.2

130 140.3 89.7 166.5

51 55.9 38.9 58.3

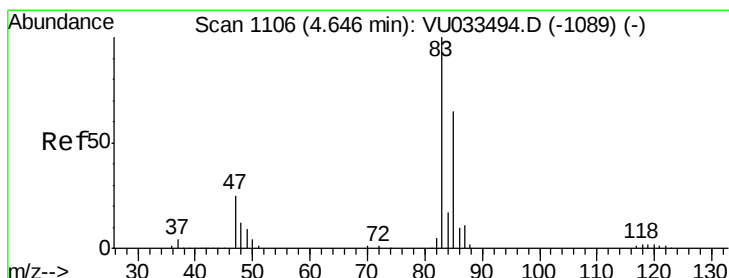
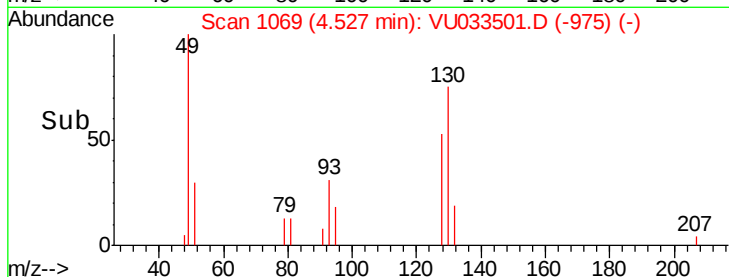
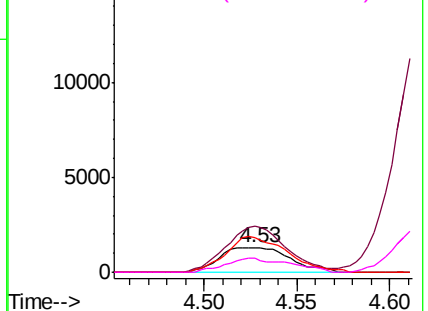


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VU0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VU0



#25

Chloroform

Concen: 3.568 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VU033501.D

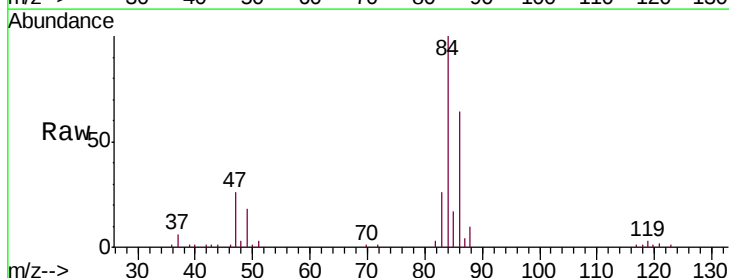
Acq: 30 Jul 2019 18:49

Tgt Ion: 83 Resp: 15866

Ion Ratio Lower Upper

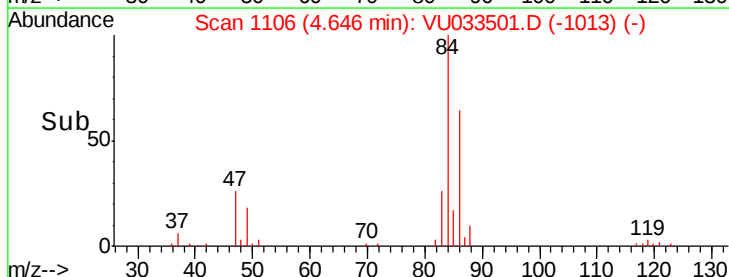
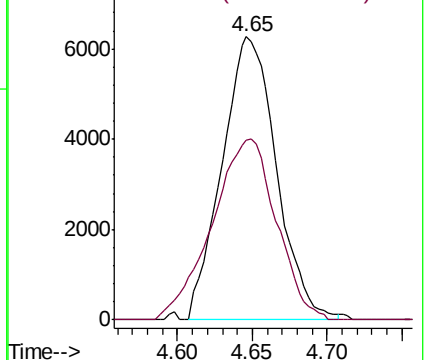
83 100

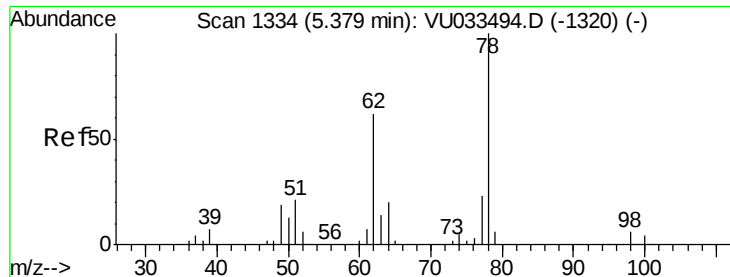
85 63.6 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

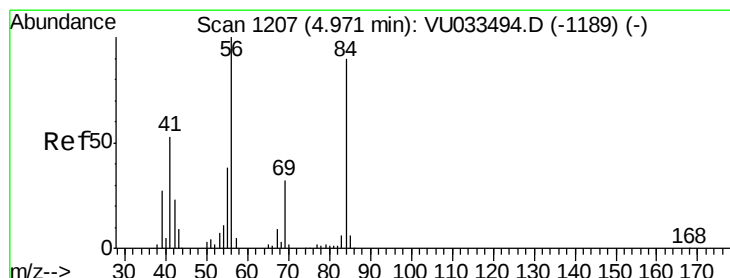
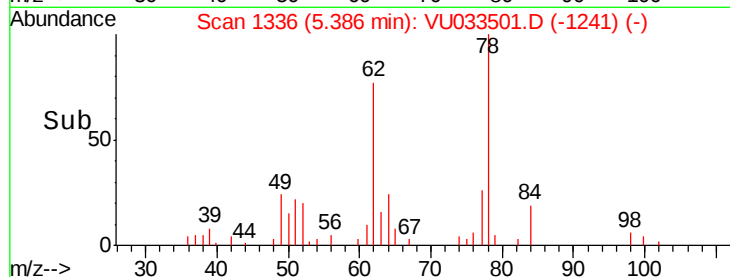
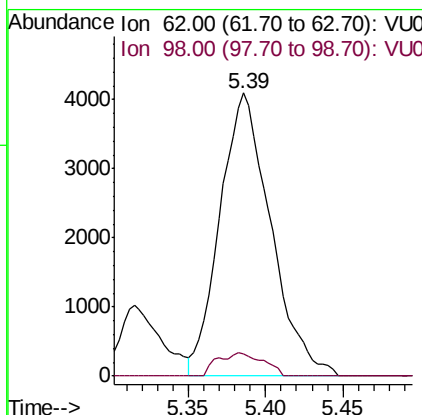
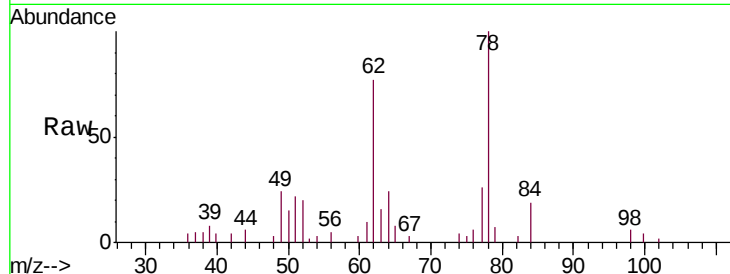




#27
 1,2-Dichloroethane
 Concen: 2.731 ug/L
 RT: 5.39 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

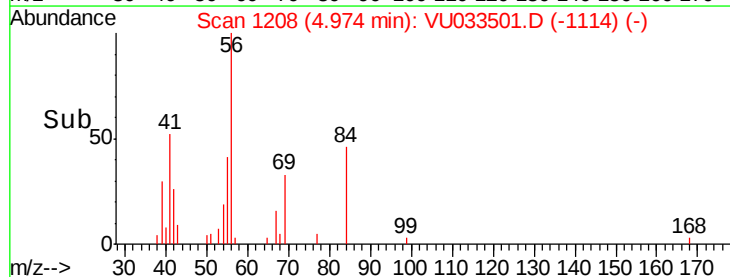
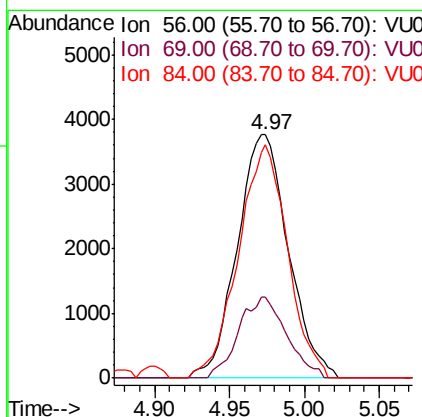
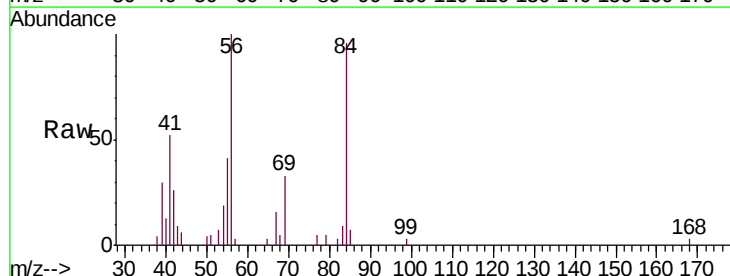
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

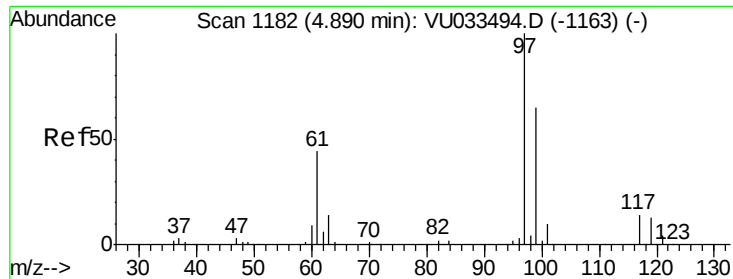
Tgt Ion: 62 Resp: 9351
 Ion Ratio Lower Upper
 62 100
 98 8.0 7.2 10.8



#29
 Cyclohexane
 Concen: 2.515 ug/L
 RT: 4.97 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 56 Resp: 8949
 Ion Ratio Lower Upper
 56 100
 69 20.4 25.0 37.6#
 84 92.0 71.6 107.4

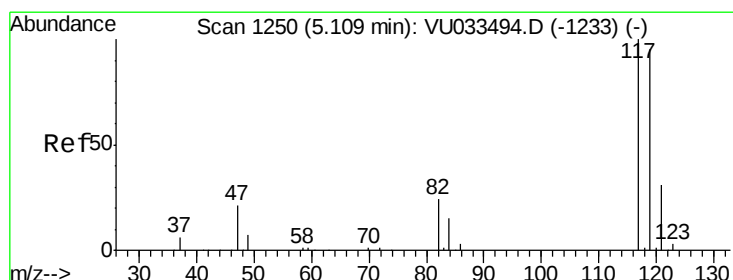
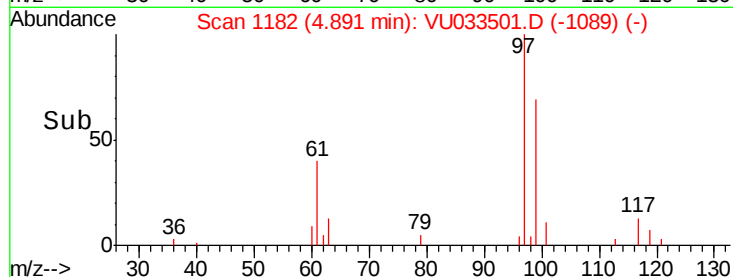
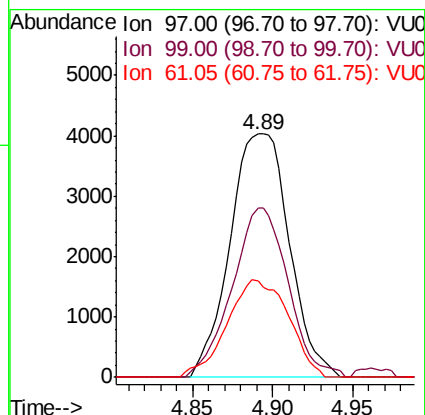
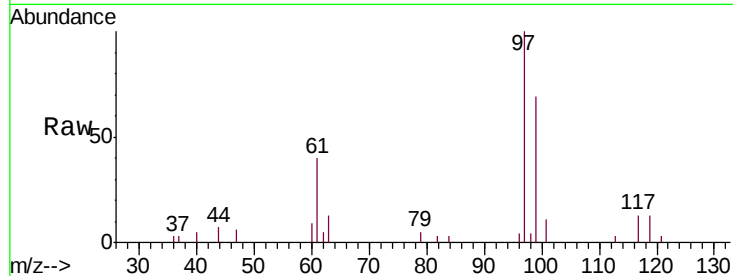




#30
 1,1,1-Trichloroethane
 Concen: 2.734 ug/L
 RT: 4.89 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

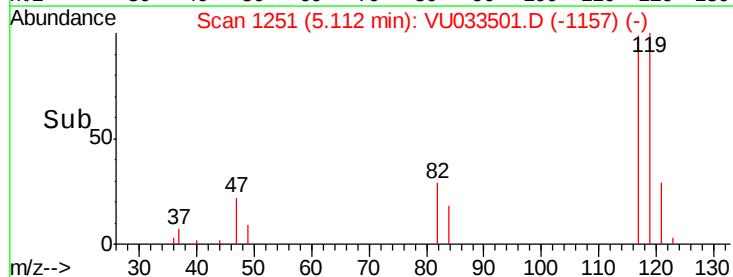
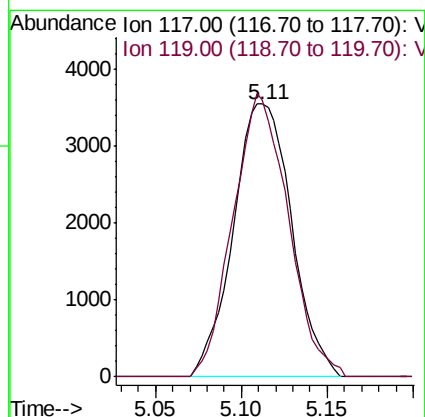
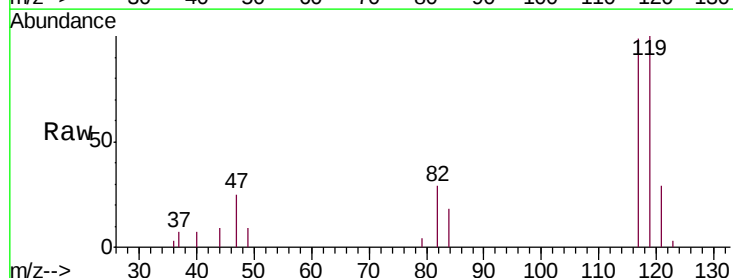
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL01

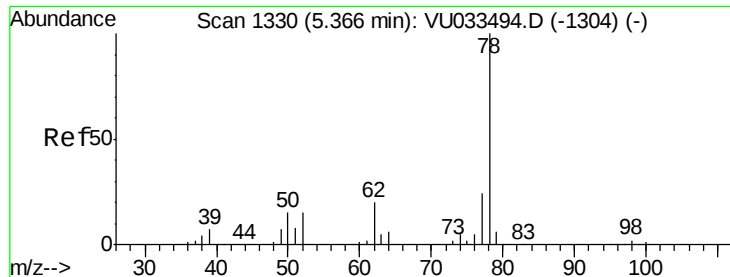
Tgt Ion: 97 Resp: 10260
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.1 76.7
 61 41.6 35.5 53.3



#31
 Carbon tetrachloride
 Concen: 2.561 ug/L
 RT: 5.11 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 117 Resp: 8371
 Ion Ratio Lower Upper
 117 100
 119 98.1 77.0 115.4





#33

Benzene

Concen: 2.777 ug/L

RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

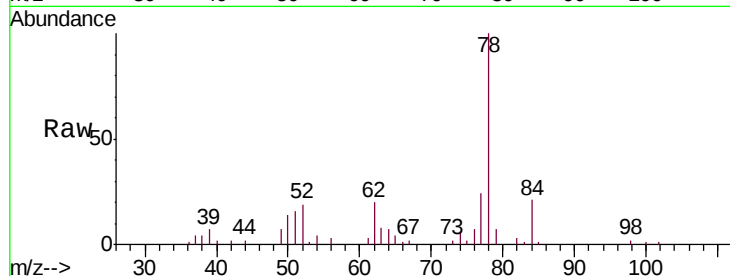
Instrument :

MSVOA_U

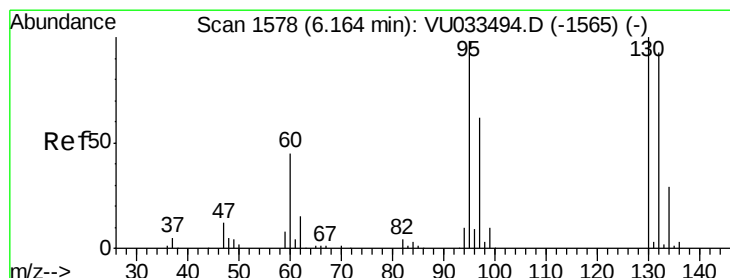
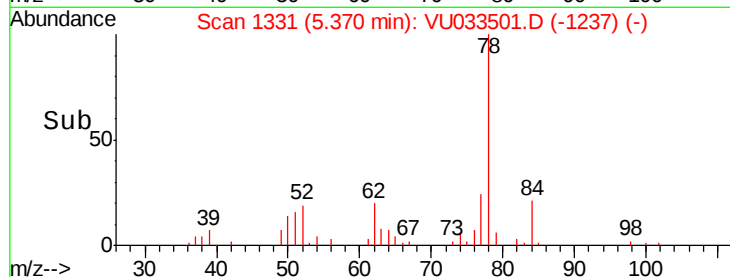
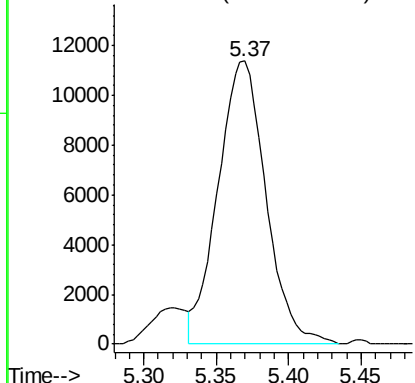
ClientSampled :

MDL01

Tgt Ion: 78 Resp: 26125



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 2.705 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion: 95 Resp: 6714

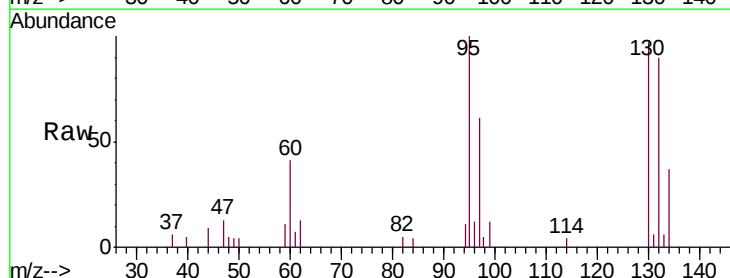
Ion	Ratio	Lower	Upper
95	100		
97	60.8	44.7	83.1
132	90.1	66.8	124.0
130	97.4	71.6	133.0

95 100

97 60.8 44.7 83.1

132 90.1 66.8 124.0

130 97.4 71.6 133.0

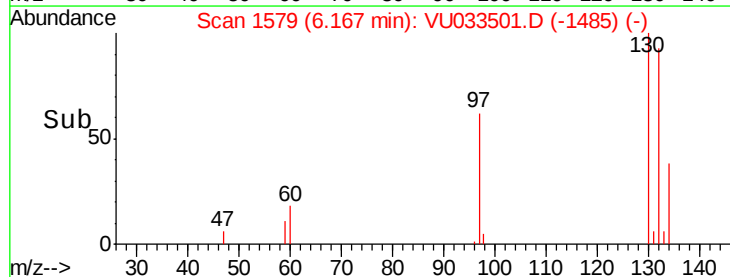
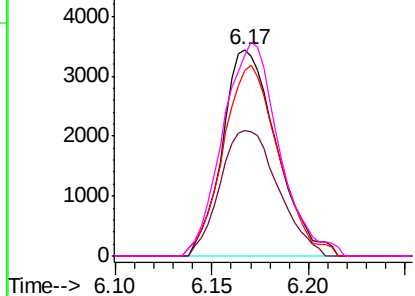


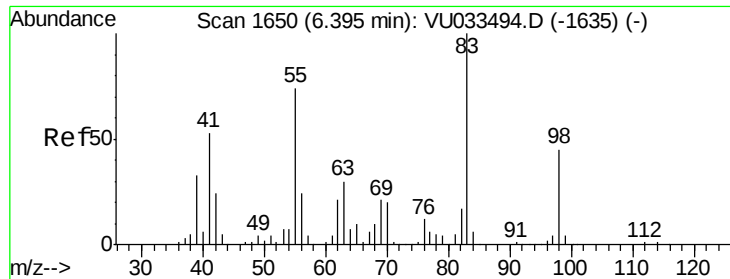
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

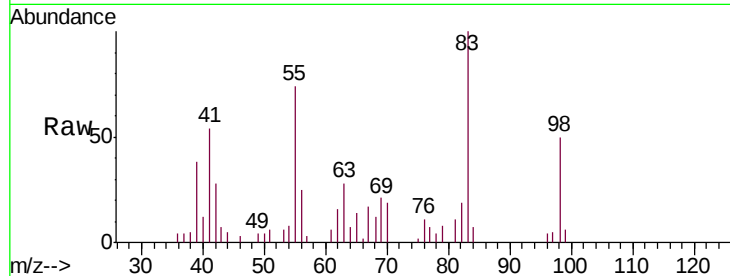




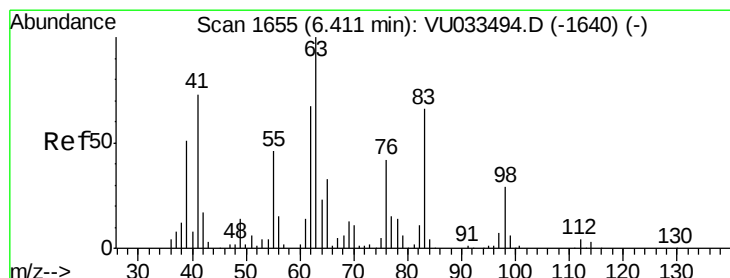
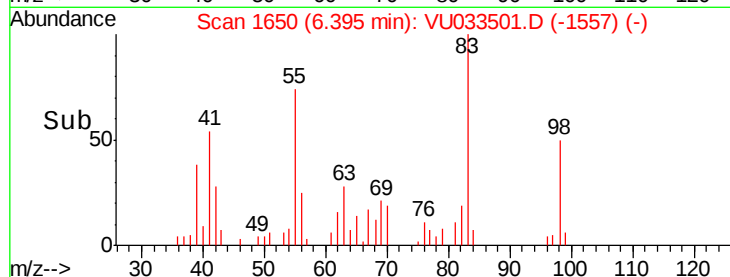
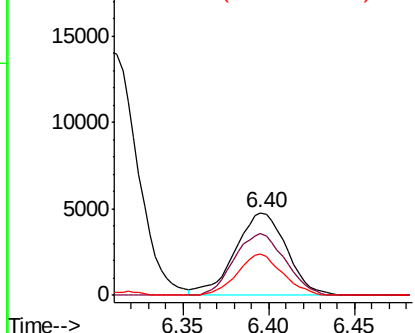
#35
Methylcyclohexane
Concen: 2.568 ug/L
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion: 83 Resp: 9946
Ion Ratio Lower Upper
83 100
55 73.6 60.2 90.4
98 43.7 36.5 54.7

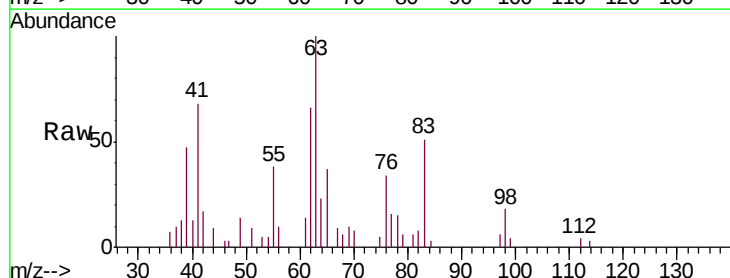


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

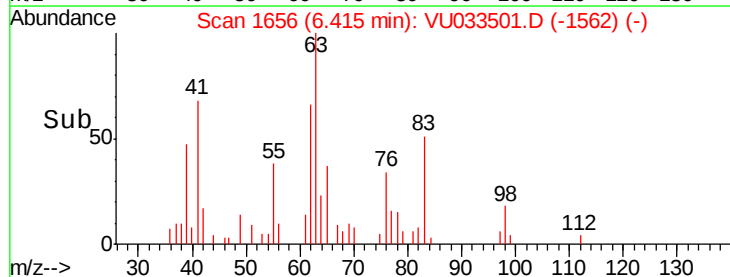
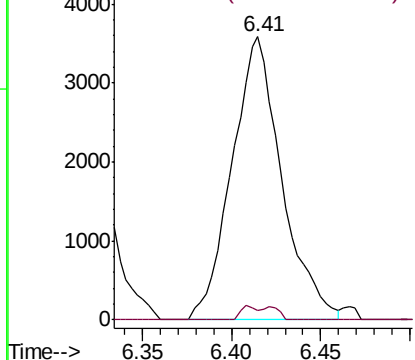


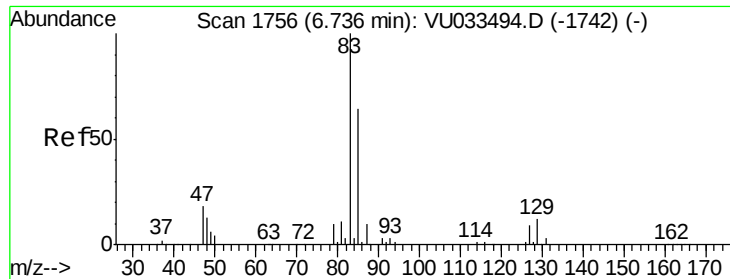
#37
1,2-Dichloropropane
Concen: 2.769 ug/L
RT: 6.41 min Scan# 1656
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion: 63 Resp: 6974
Ion Ratio Lower Upper
63 100
112 1.6 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V





#38

Bromodichloromethane

Concen: 2.731 ug/L

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

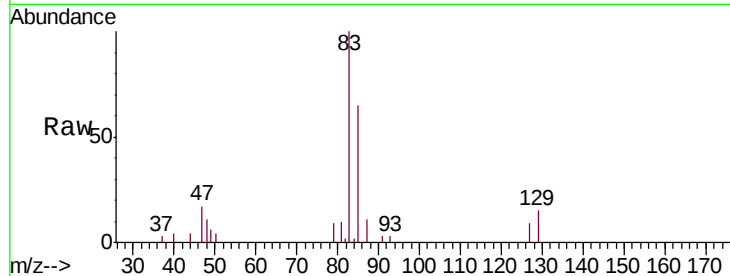
Tgt Ion: 83 Resp: 8892

Ion Ratio Lower Upper

83 100

85 65.4 45.1 83.9

127 8.7 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VU033501.D (-1663) (-)

Ion 85.00 (84.70 to 85.70): VU033501.D (-1663) (-)

Ion 127.00 (126.70 to 127.70): VU033501.D (-1663) (-)

6.74

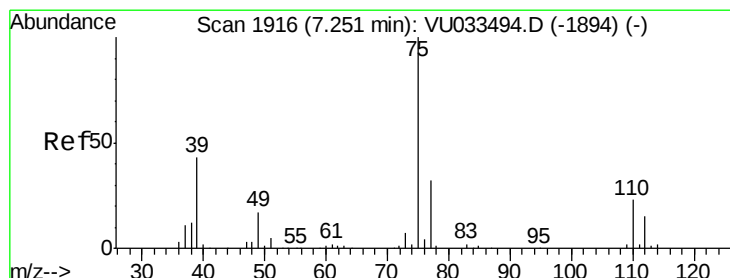
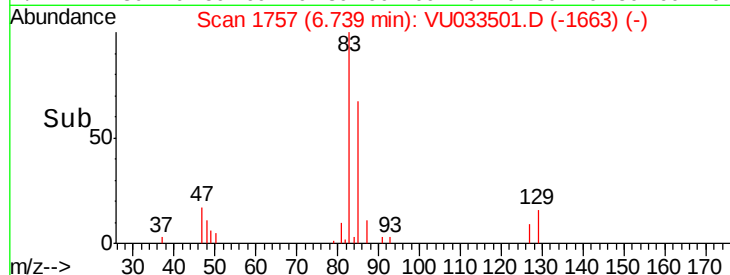
4000

2000

0

6.70 6.75 6.80

Time-->



#39

cis-1,3-Dichloropropene

Concen: 2.663 ug/L

RT: 7.25 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VU033501.D

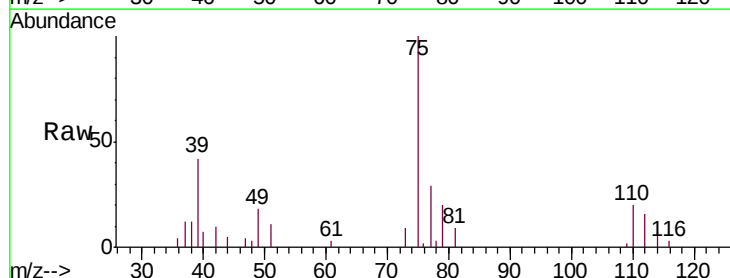
Acq: 30 Jul 2019 18:49

Tgt Ion: 75 Resp: 10467

Ion Ratio Lower Upper

75 100

77 28.5 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033501.D (-1823) (-)

Ion 77.00 (76.70 to 77.70): VU033501.D (-1823) (-)

7.25

6000

5000

4000

3000

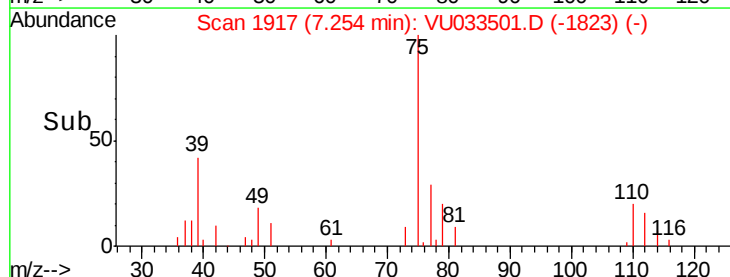
2000

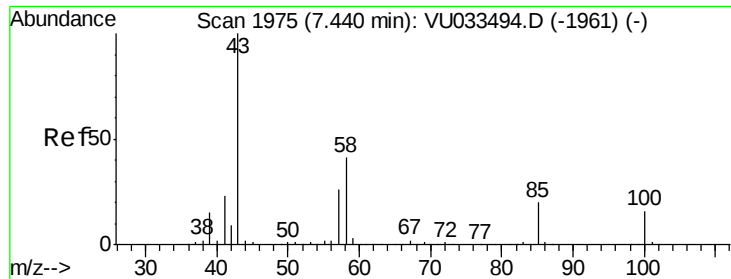
1000

0

7.20 7.25 7.30

Time-->

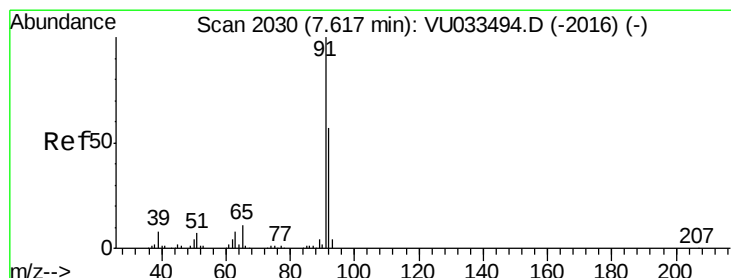
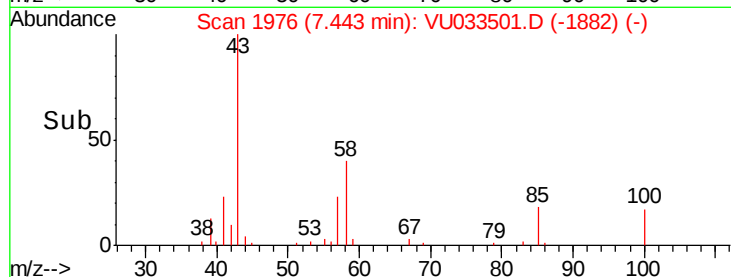
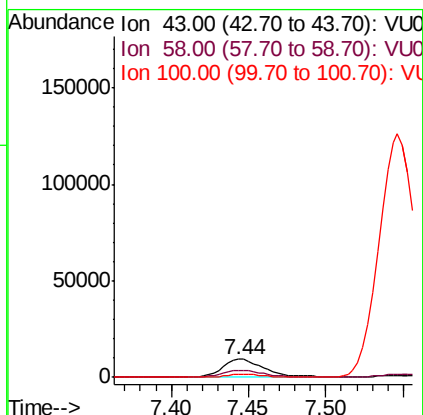
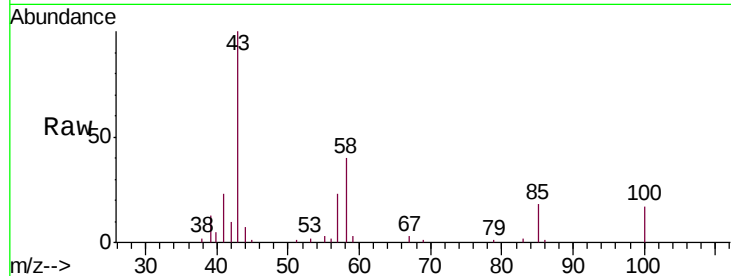




#40
 4-Methyl-2-pentanone
 Concen: 5.100 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

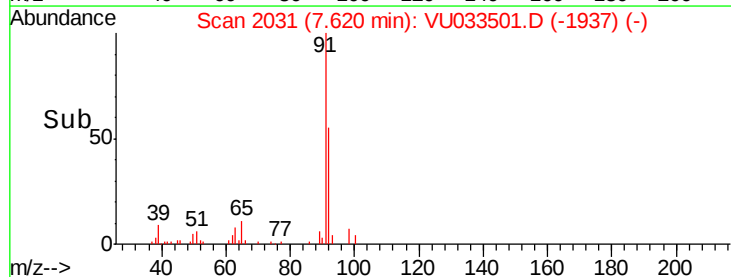
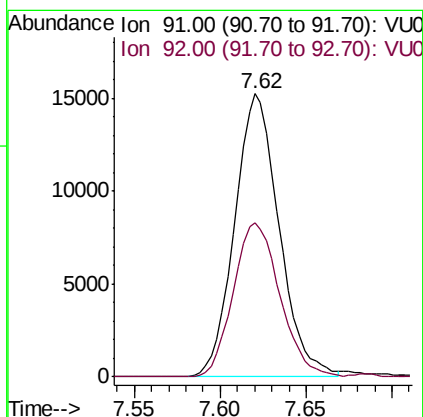
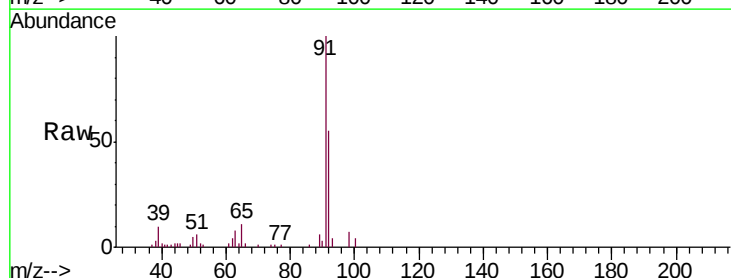
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

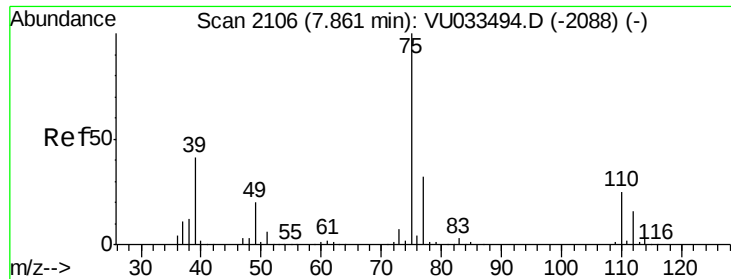
Tgt Ion: 43 Resp: 17734
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.8 49.2
 100 15.4 12.9 19.3



#42
 Toluene
 Concen: 2.712 ug/L
 RT: 7.62 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 91 Resp: 27442
 Ion Ratio Lower Upper
 91 100
 92 54.6 40.2 74.6





#44

trans-1,3-Dichloropropene

Concen: 2.560 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampled :

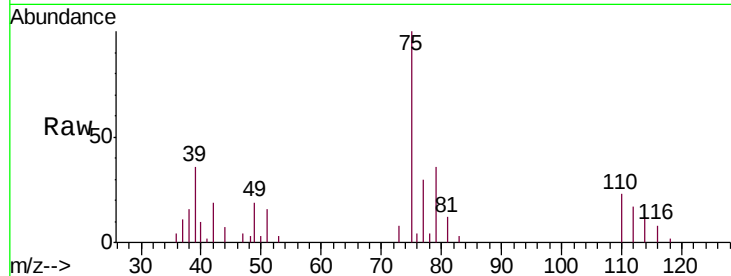
MDL01

Tgt Ion: 75 Resp: 9094

Ion Ratio Lower Upper

75 100

77 30.5 22.7 42.1

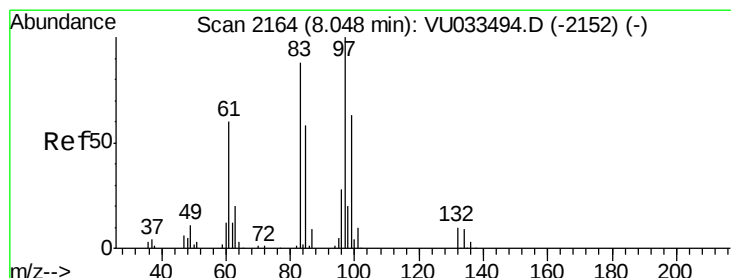
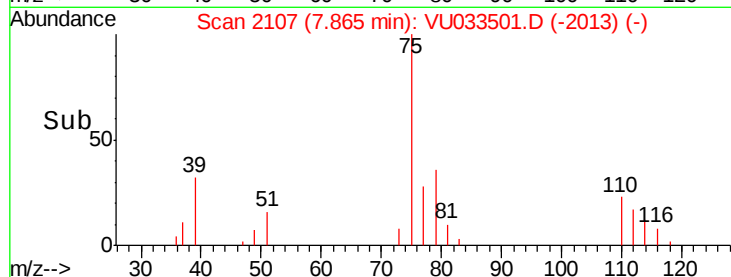


Abundance Ion 75.00 (74.70 to 75.70): VU033494.D (-2088) (-)

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

7.86

Time-->



#45

1,1,2-Trichloroethane

Concen: 2.700 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion: 97 Resp: 6455

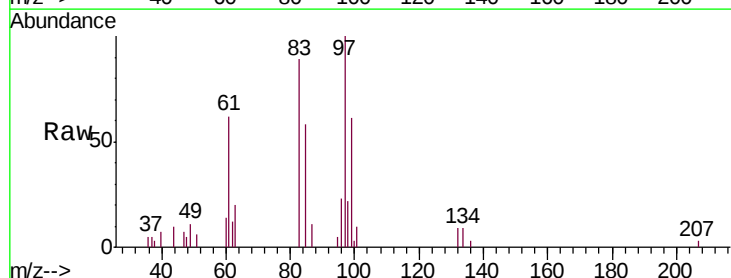
Ion Ratio Lower Upper

97 100

99 60.6 44.4 82.4

83 88.8 61.5 114.1

85 57.8 40.4 75.0



Abundance Ion 97.00 (96.70 to 97.70): VU033494.D (-2152) (-)

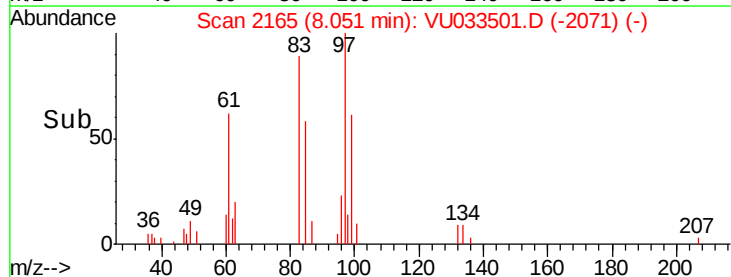
Ion 99.00 (98.70 to 99.70): VU033494.D (-2152) (-)

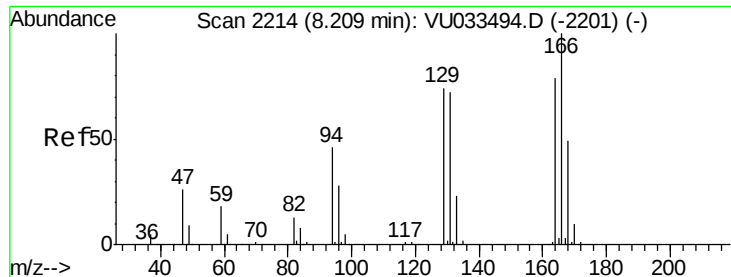
Ion 83.00 (82.70 to 83.70): VU033494.D (-2152) (-)

Ion 85.00 (84.70 to 85.70): VU033494.D (-2152) (-)

8.05

Time-->

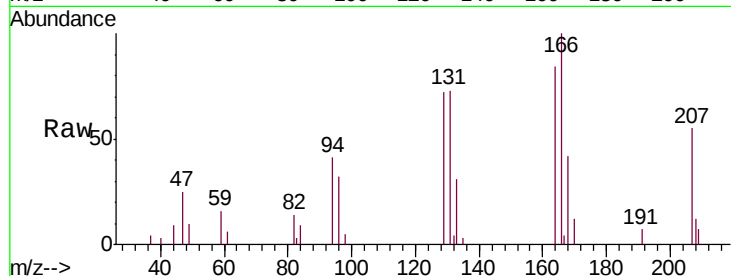




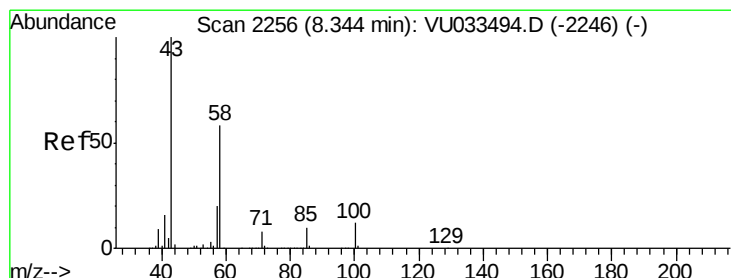
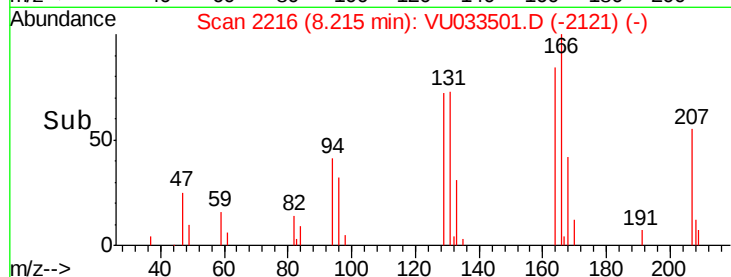
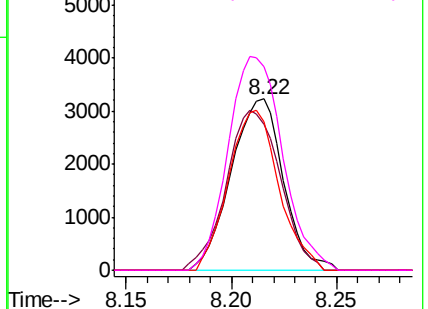
#46
Tetrachloroethene
Concen: 2.743 ug/L
RT: 8.22 min Scan# 2216
Delta R.T. 0.01 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion:164 Resp: 5558
Ion Ratio Lower Upper
164 100
129 85.6 65.5 121.7
131 86.5 63.3 117.7
166 118.8 88.2 163.8

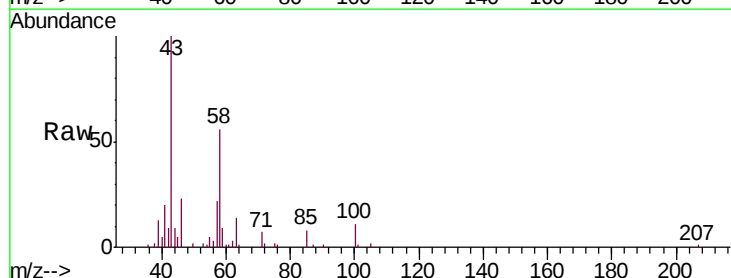


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

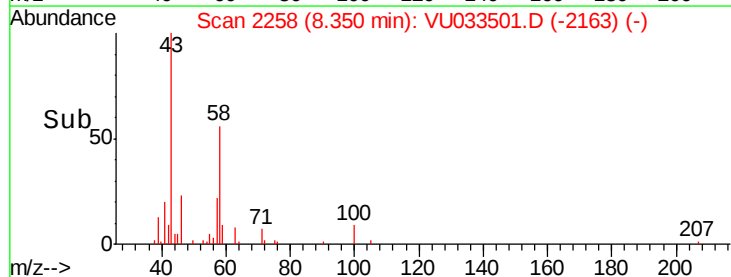
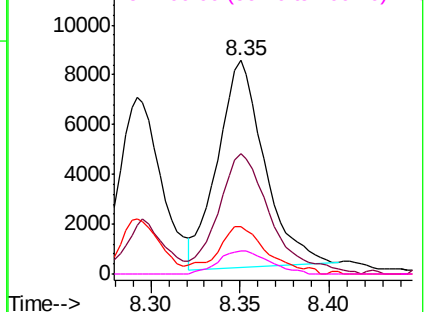


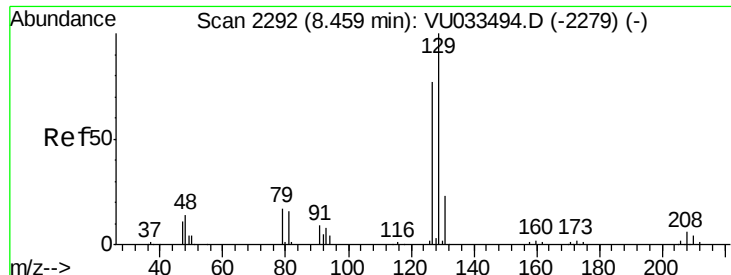
#48
2-Hexanone
Concen: 5.407 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion: 43 Resp: 15198
Ion Ratio Lower Upper
43 100
58 64.3 45.8 68.6
57 22.5 15.8 23.6
100 12.1 9.4 14.2



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#49

Dibromochloromethane

Concen: 2.567 ug/L

RT: 8.46 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

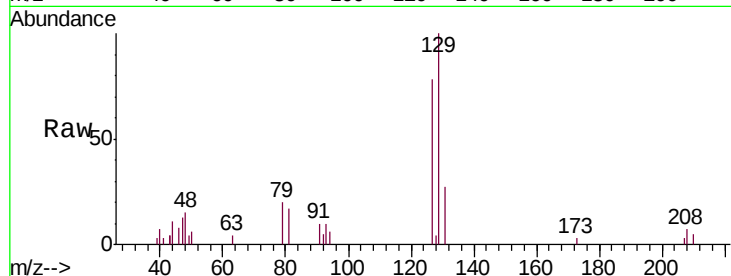
MDL01

Tgt Ion:129 Resp: 6984

Ion Ratio Lower Upper

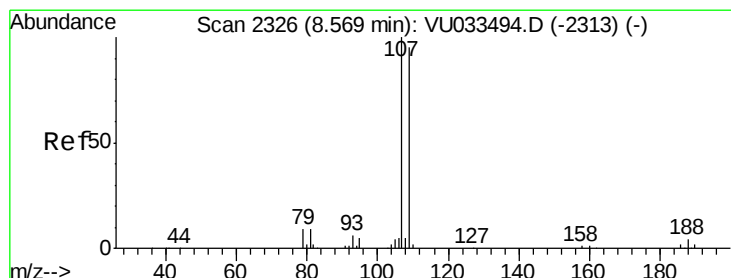
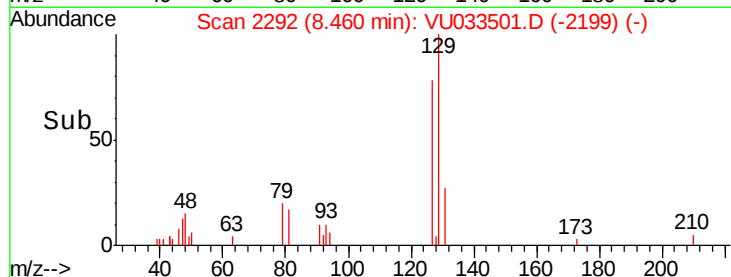
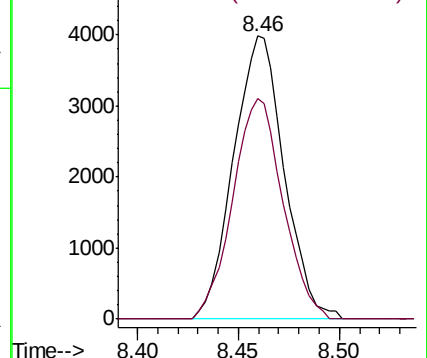
129 100

127 77.8 53.8 99.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 2.840 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

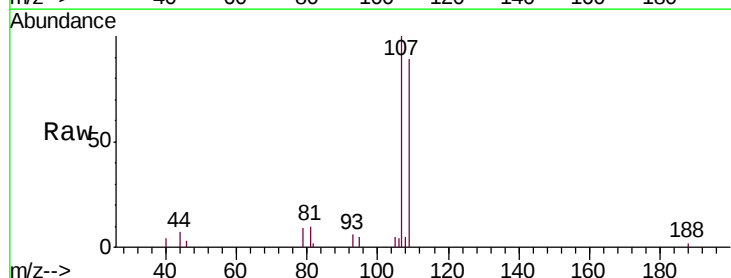
Tgt Ion:107 Resp: 7522

Ion Ratio Lower Upper

107 100

109 89.4 66.8 124.0

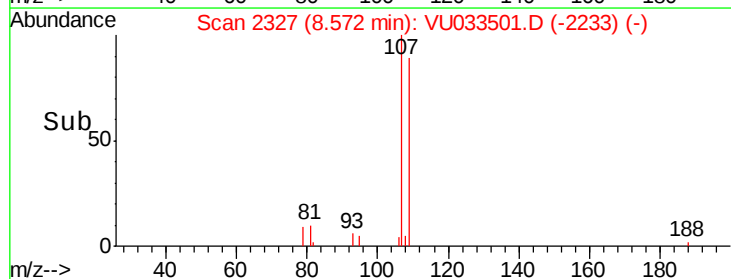
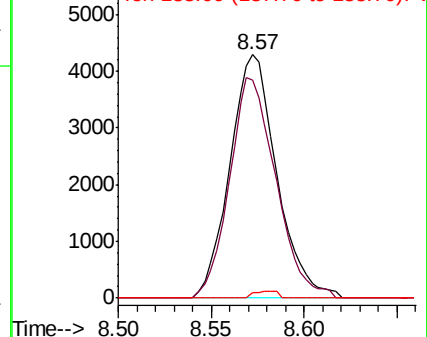
188 2.3 3.0 4.4#

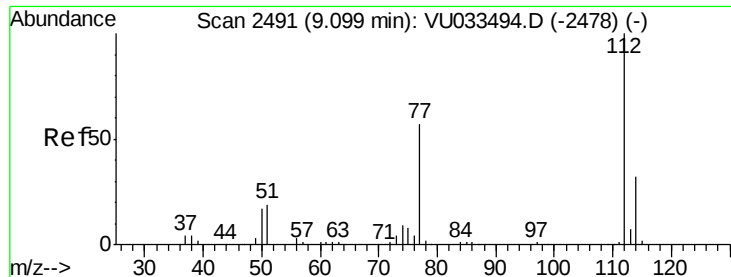


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

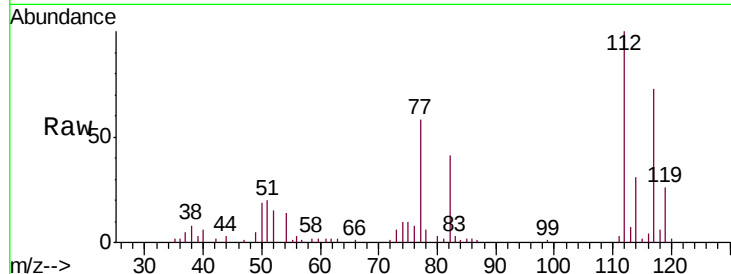




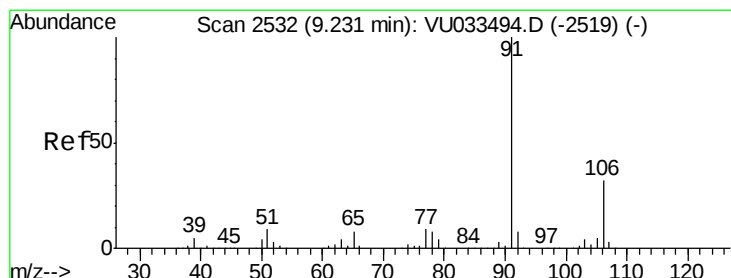
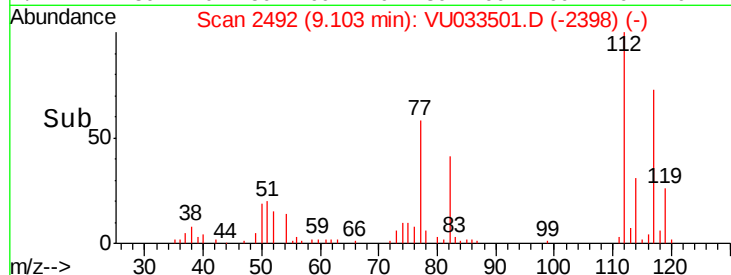
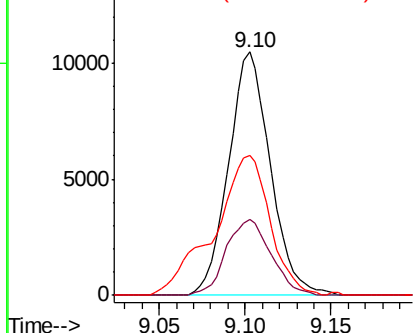
#51
Chlorobenzene
Concen: 2.675 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion: 112 Resp: 17718
Ion Ratio Lower Upper
112 100
114 31.4 22.3 41.5
77 57.7 45.6 68.4

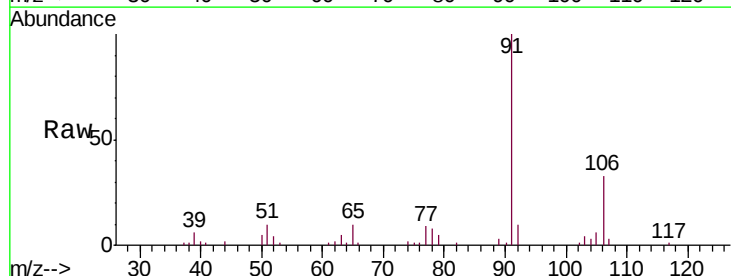


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

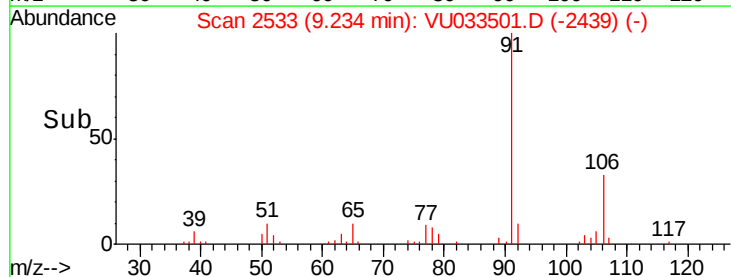
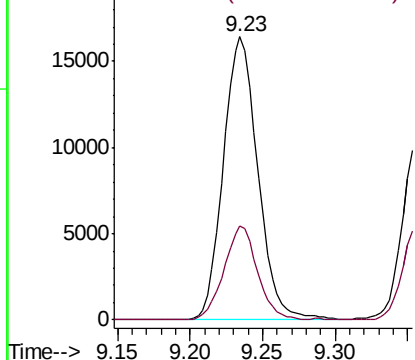


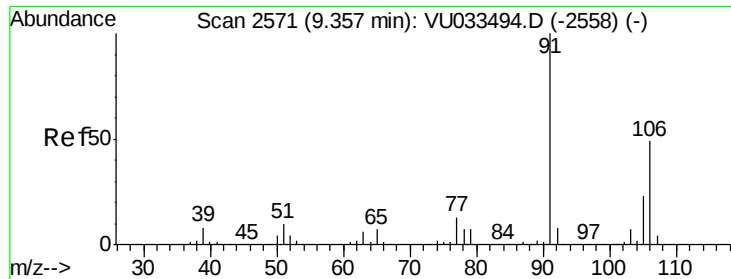
#52
Ethylbenzene
Concen: 2.486 ug/L
RT: 9.23 min Scan# 2533
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion: 91 Resp: 27081
Ion Ratio Lower Upper
91 100
106 33.1 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V

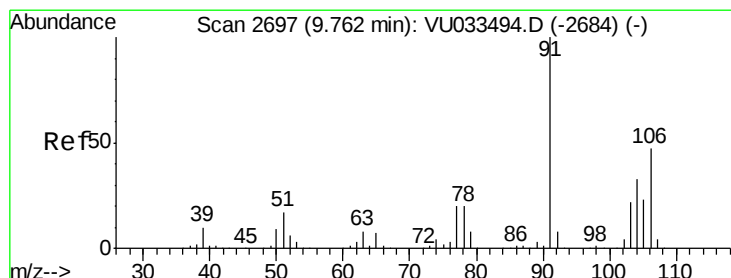
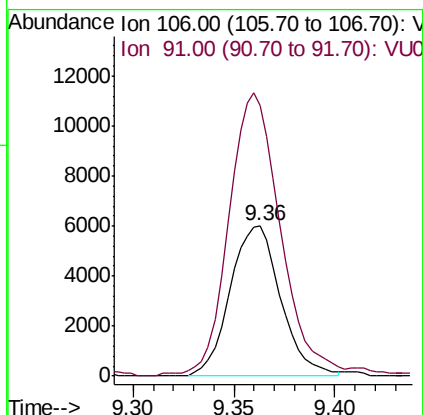
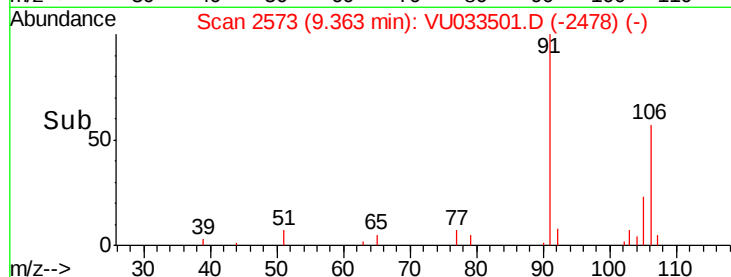
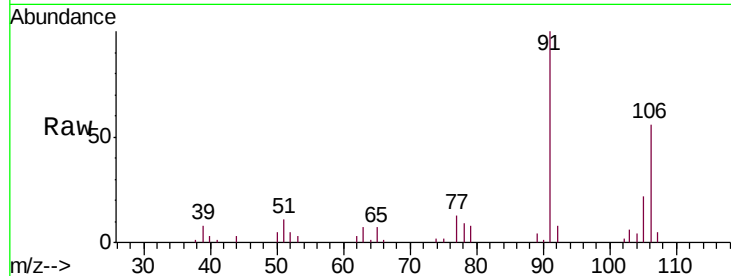




#53
m,p-Xylene
Concen: 2.527 ug/L
RT: 9.36 min Scan# 2573
Delta R.T. 0.01 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

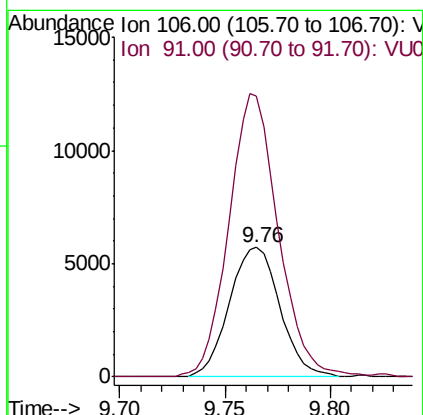
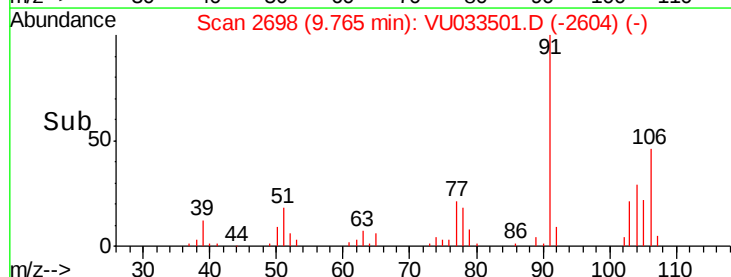
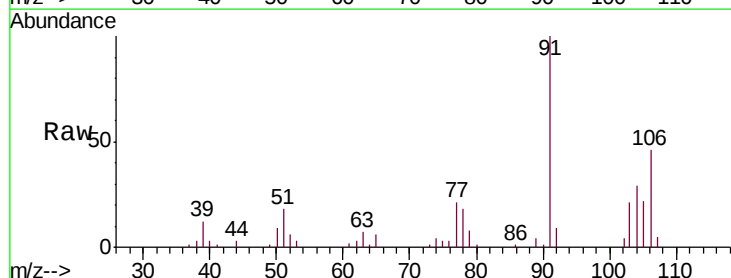
Instrument :
MSVOA_U
ClientSampleId :
MDL01

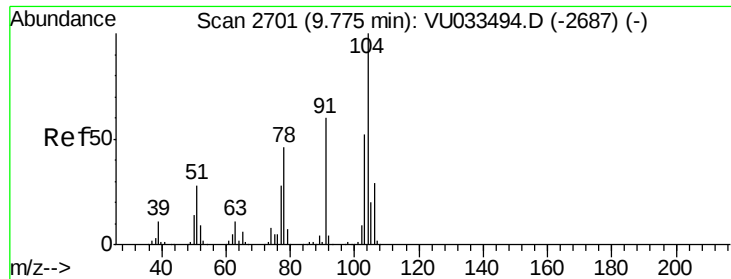
Tgt Ion:106 Resp: 10569
Ion Ratio Lower Upper
106 100
91 180.1 143.0 265.6



#54
o-xylene
Concen: 2.348 ug/L
RT: 9.76 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033501.D
Acq: 30 Jul 2019 18:49

Tgt Ion:106 Resp: 9527
Ion Ratio Lower Upper
106 100
91 216.8 148.4 275.6





#55

Styrene

Concen: 2.130 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

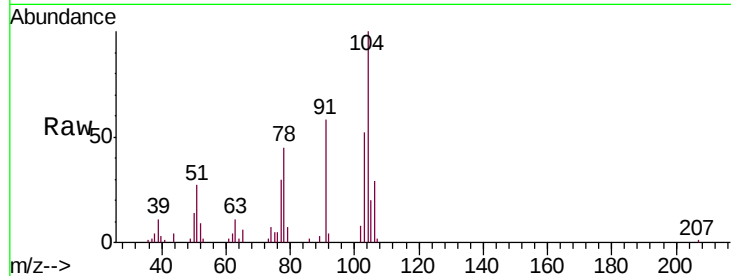
MDL01

Tgt Ion:104 Resp: 14680

Ion Ratio Lower Upper

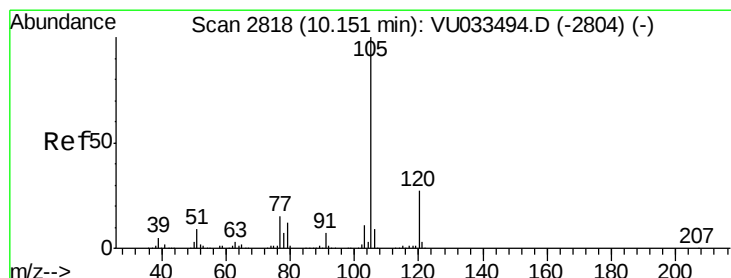
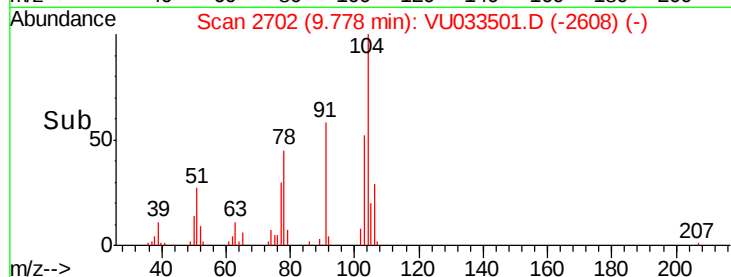
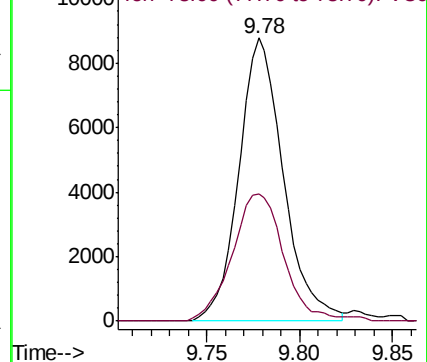
104 100

78 45.0 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: 2.294 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

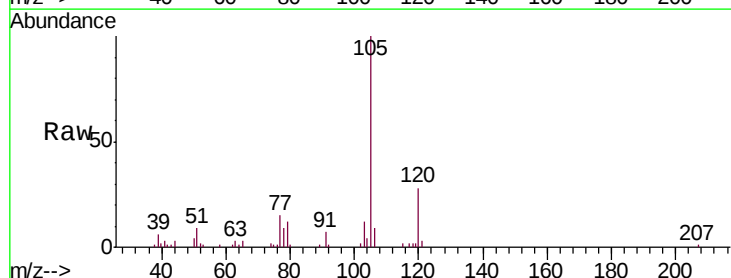
Tgt Ion:105 Resp: 24314

Ion Ratio Lower Upper

105 100

120 27.3 21.4 32.0

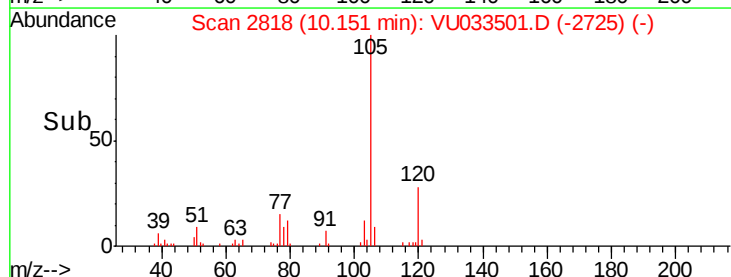
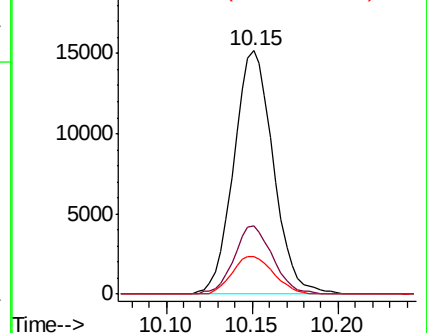
77 16.3 12.5 18.7

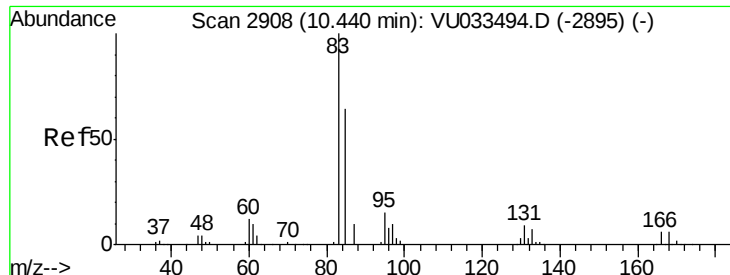


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

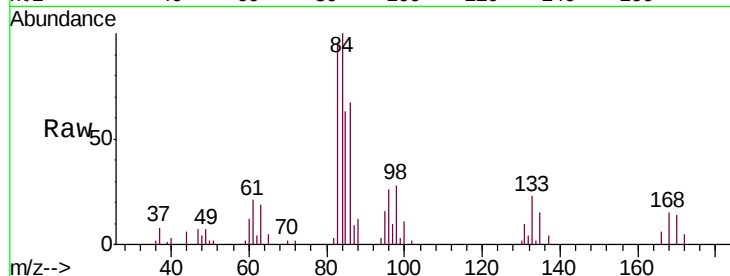




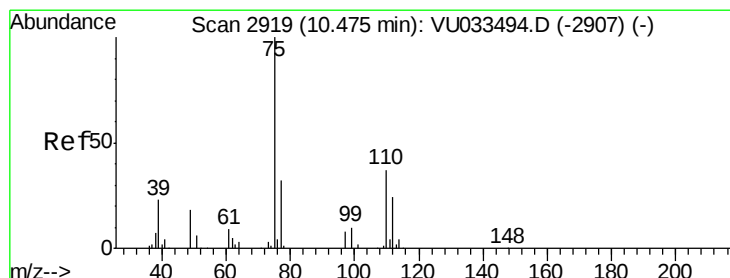
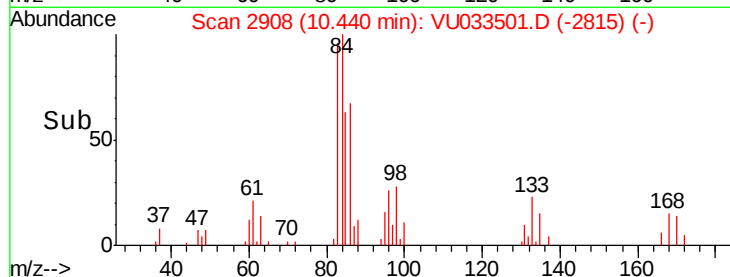
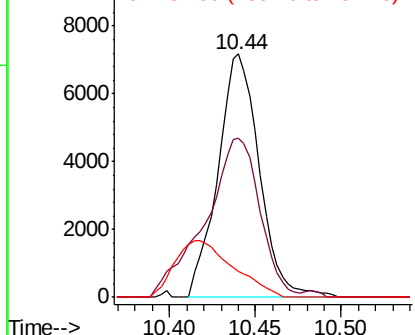
#58
 1,1,2,2-Tetrachloroethane
 Concen: 2.811 ug/L
 RT: 10.44 min Scan# 2908
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tgt Ion: 83 Resp: 12122
 Ion Ratio Lower Upper
 83 100
 85 65.4 45.4 84.4
 131 14.8 7.9 11.9#

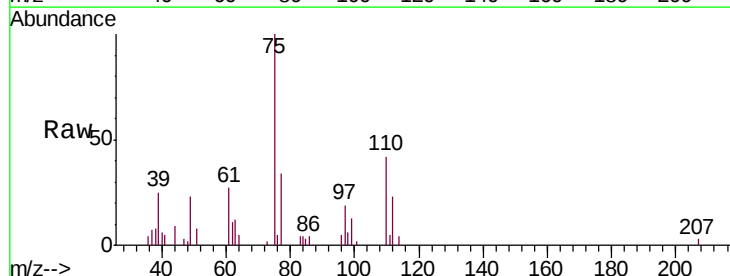


Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0
 Ion 131.00 (130.70 to 131.70): V

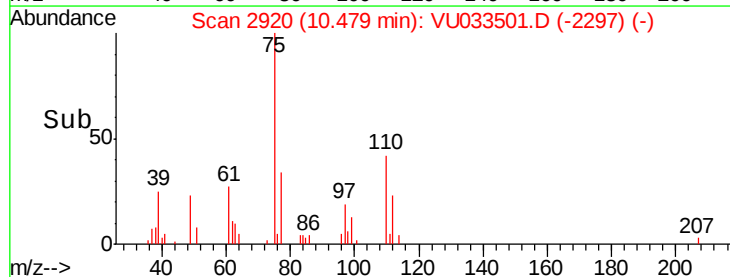
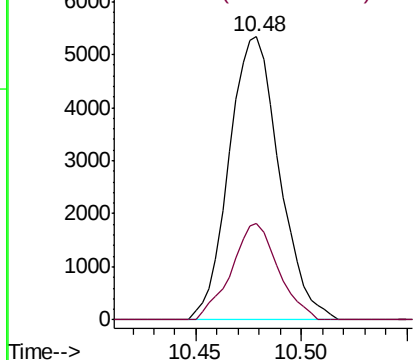


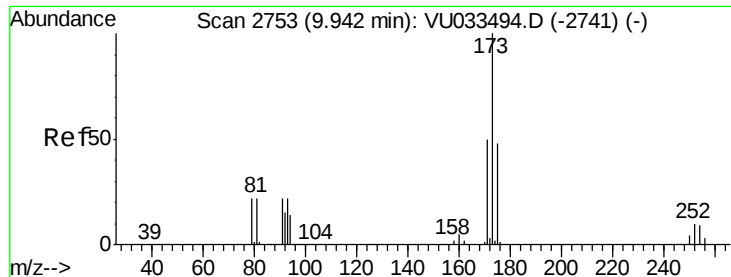
#59
 1,2,3-Trichloropropane
 Concen: 2.657 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion: 75 Resp: 8833
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0





#61

Bromoform

Concen: 2.745 ug/L

RT: 9.94 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

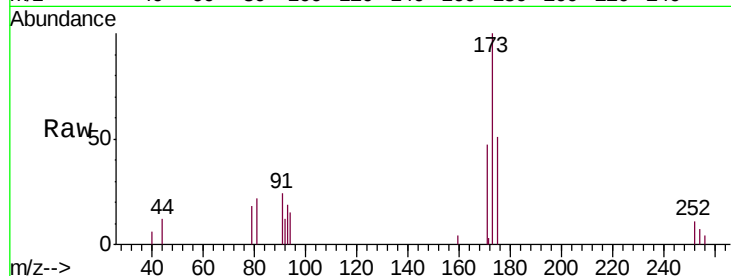
Tgt Ion:173 Resp: 5319

Ion Ratio Lower Upper

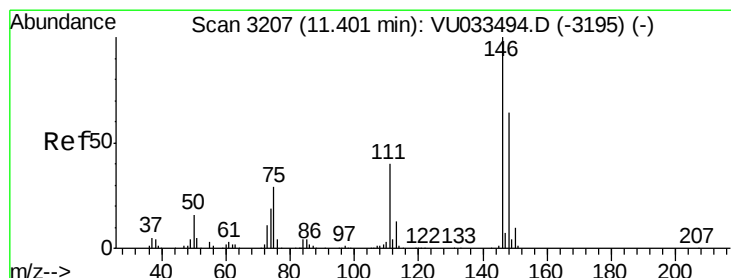
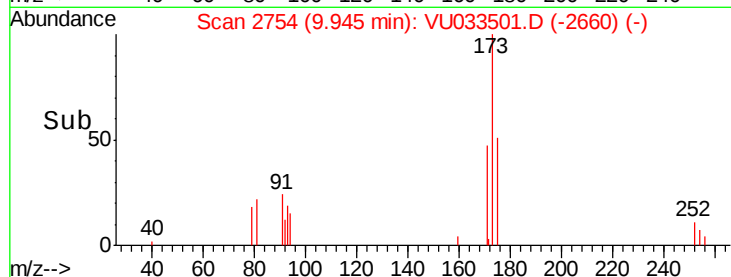
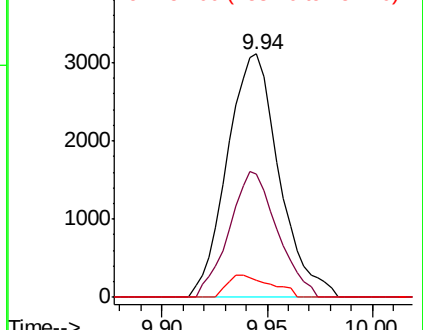
173 100

175 47.9 38.7 58.1

254 7.6 7.5 11.3



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 2.890 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

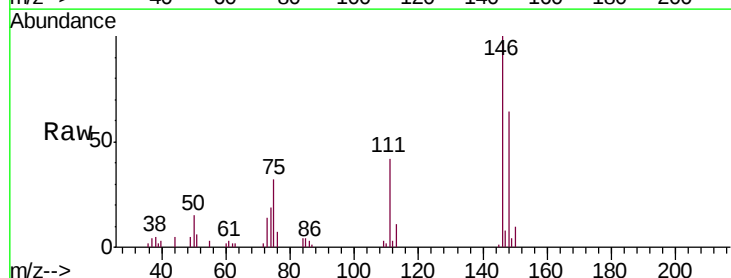
Tgt Ion:146 Resp: 14238

Ion Ratio Lower Upper

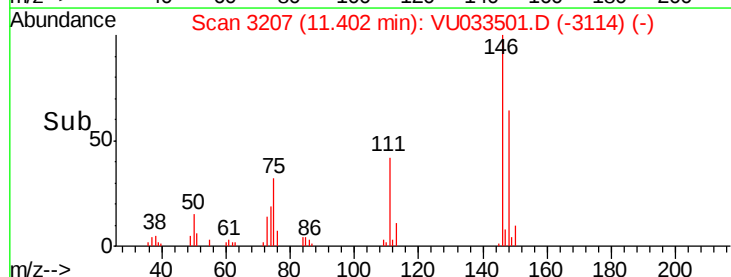
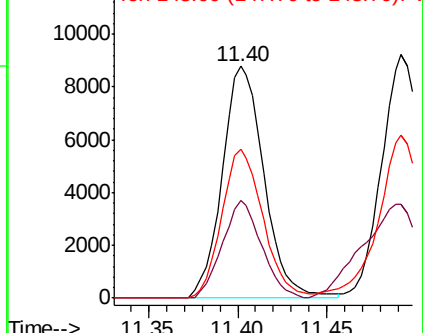
146 100

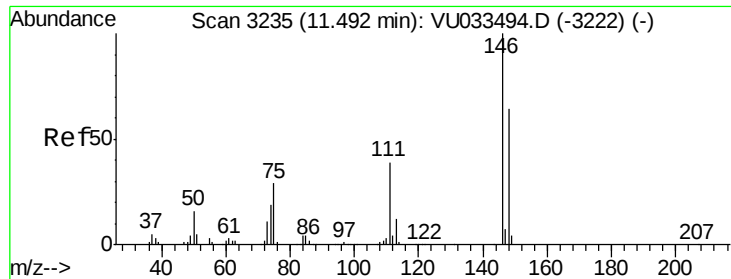
111 42.4 28.1 52.1

148 64.2 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

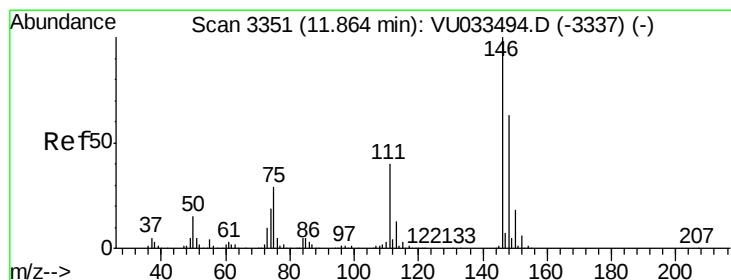
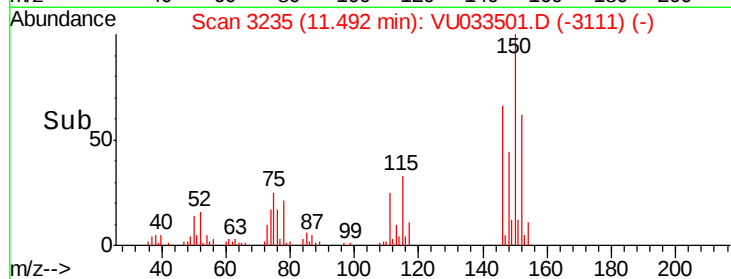
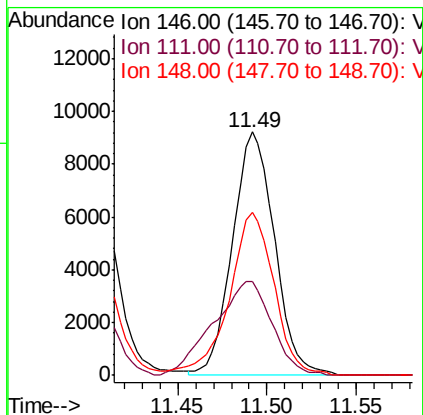
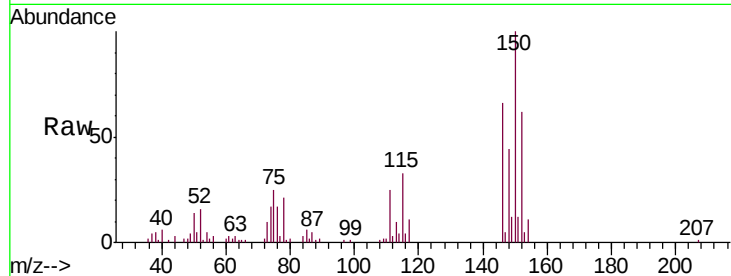




#63
 1,4-Dichlorobenzene
 Concen: 2.957 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

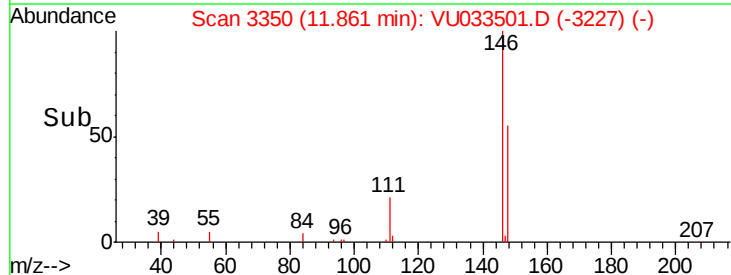
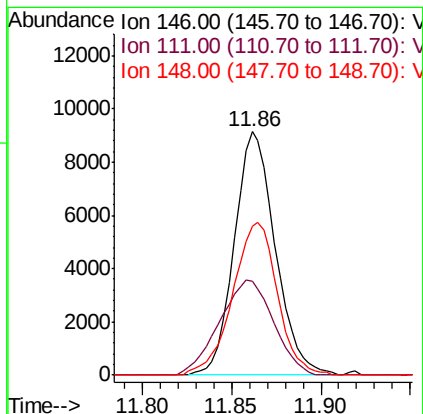
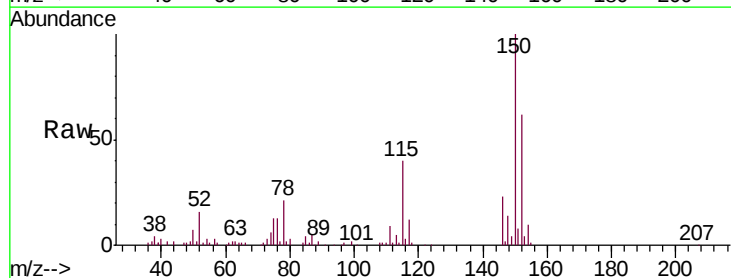
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

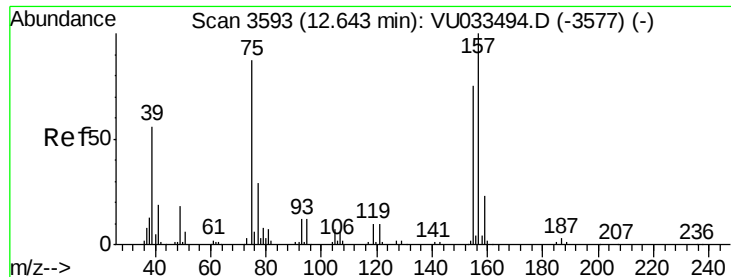
Tgt Ion:146 Resp: 15138
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.2 50.4
 148 67.0 44.5 82.7



#65
 1,2-Dichlorobenzene
 Concen: 2.943 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion:146 Resp: 14660
 Ion Ratio Lower Upper
 146 100
 111 38.5 31.7 47.5
 148 61.0 50.3 75.5





#66

1,2-Dibromo-3-chloropropane

Concen: 2.836 ug/L

RT: 12.65 min Scan# 3595

Delta R.T. 0.01 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Instrument :

MSVOA_U

ClientSampleId :

MDL01

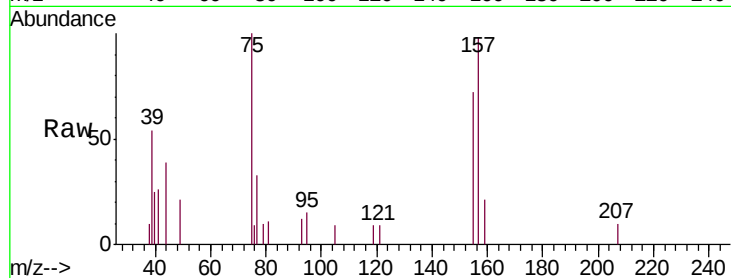
Tgt Ion: 75 Resp: 2610

Ion Ratio Lower Upper

75 100

155 71.5 69.4 104.0

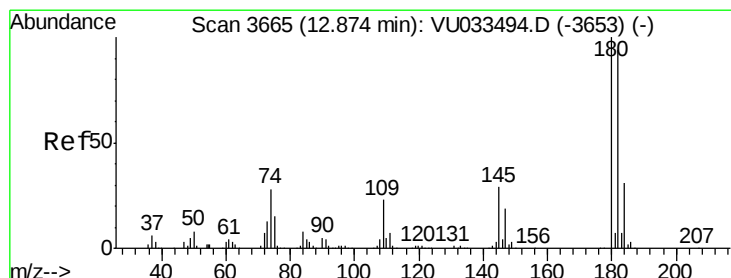
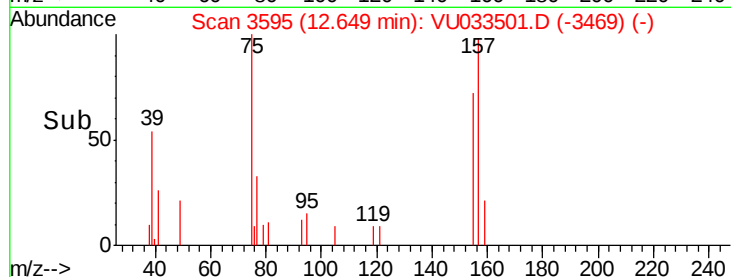
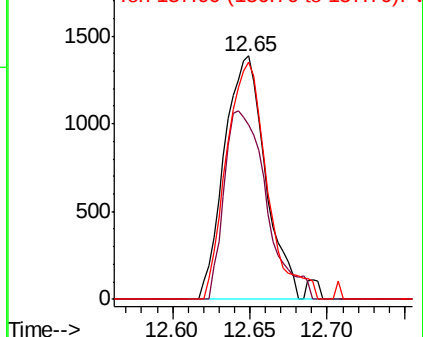
157 97.5 91.8 137.8



Abundance Ion 75.00 (74.70 to 75.70): VU033494.D (-3577) (-)

Ion 155.00 (154.70 to 155.70): VU033494.D (-3577) (-)

Ion 157.00 (156.70 to 157.70): VU033494.D (-3577) (-)



#67

1,3,5-Trichlorobenzene

Concen: 2.637 ug/L

RT: 12.88 min Scan# 3666

Delta R.T. 0.00 min

Lab File: VU033501.D

Acq: 30 Jul 2019 18:49

Tgt Ion: 180 Resp: 10483

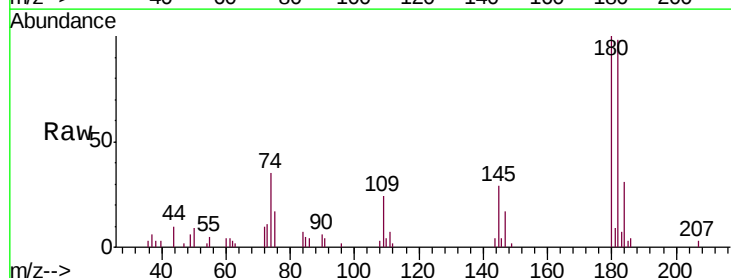
Ion Ratio Lower Upper

180 100

182 96.1 75.6 113.4

184 30.3 24.2 36.2

145 28.1 22.7 34.1

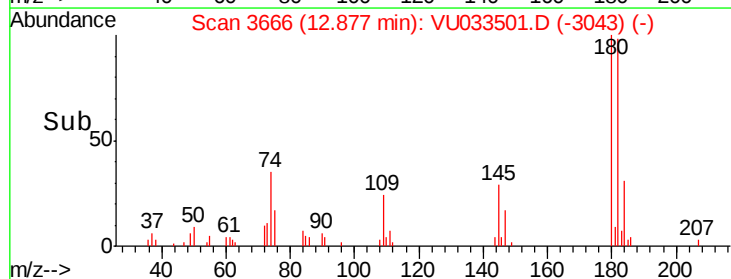
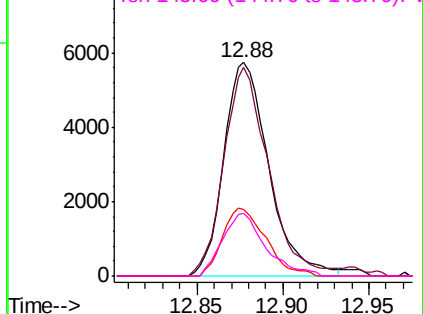


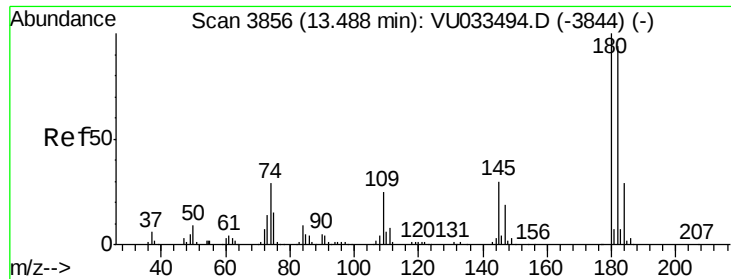
Abundance Ion 180.00 (179.70 to 180.70): VU033494.D (-3653) (-)

Ion 182.00 (181.70 to 182.70): VU033494.D (-3653) (-)

Ion 184.00 (183.70 to 184.70): VU033494.D (-3653) (-)

Ion 145.00 (144.70 to 145.70): VU033494.D (-3653) (-)

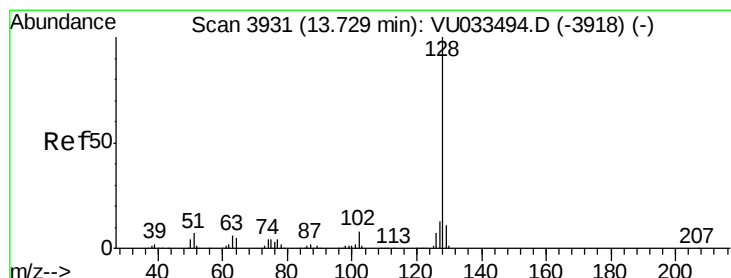
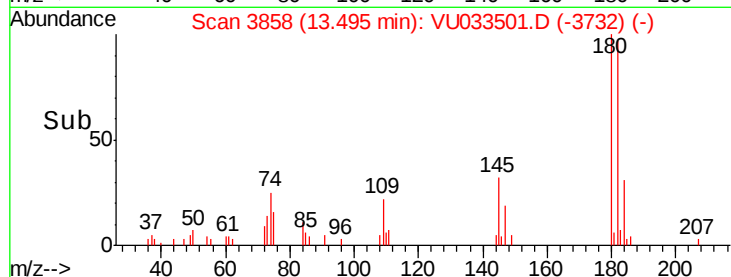
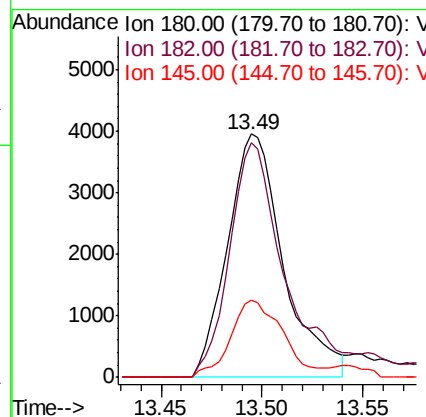
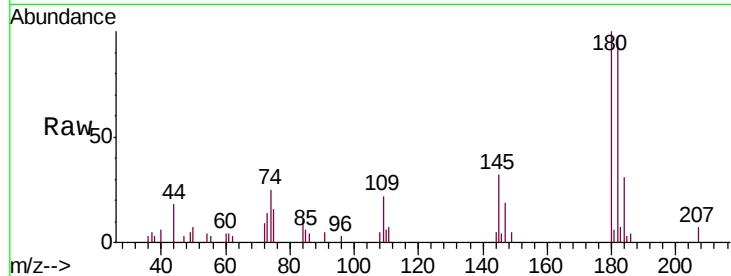




#68
 1,2,4-trichlorobenzene
 Concen: 2.250 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

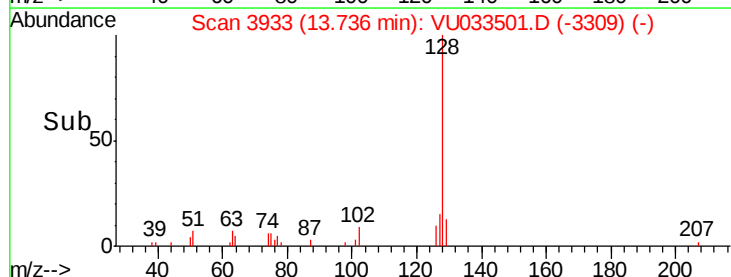
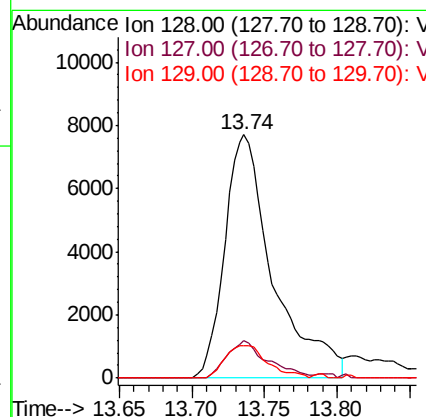
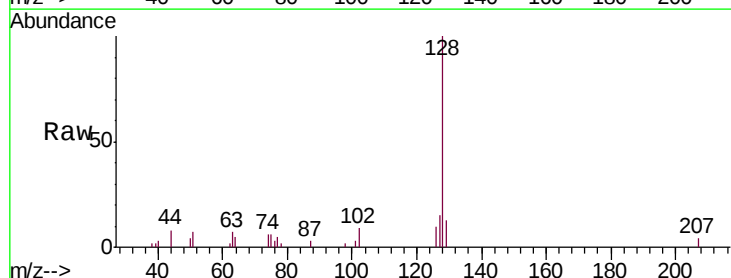
Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

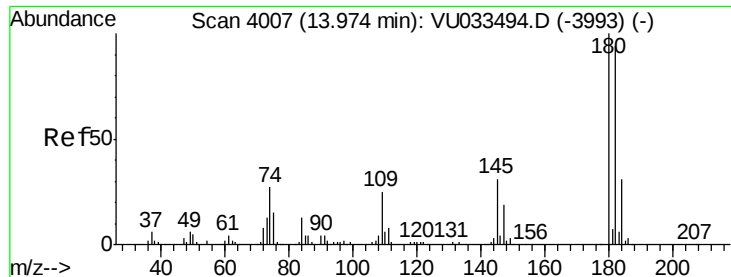
Tgt Ion:180 Resp: 7643
 Ion Ratio Lower Upper
 180 100
 182 85.8 75.8 113.8
 145 29.7 24.3 36.5



#69
 Naphthalene
 Concen: 1.829 ug/L
 RT: 13.74 min Scan# 3933
 Delta R.T. 0.01 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Tgt Ion:128 Resp: 17824
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.8 16.2
 129 6.8 8.7 13.1#

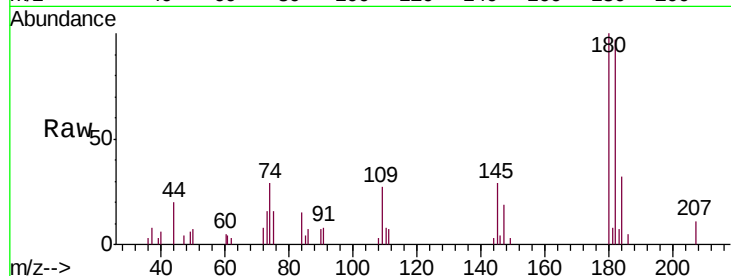




#70
 1,2,3-Trichlorobenzene
 Concen: 2.326 ug/L
 RT: 13.98 min Scan# 4008
 Delta R.T. 0.00 min
 Lab File: VU033501.D
 Acq: 30 Jul 2019 18:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tgt Ion:180 Resp: 8307
 Ion Ratio Lower Upper
 180 100
 182 95.1 75.5 113.3
 145 28.1 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V
 5000 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

