

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\
 Data File : VU033507.D
 Acq On : 30 Jul 2019 21:06
 Operator : JC/SP
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Quant Time: Jul 31 08:11:20 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	321074	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	314249	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	157602	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	106579	45.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.30%
7) Chloroethane-d5	1.67	69	92433	46.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.30%
11) 1,1-Dichloroethene-d2	2.26	63	146489	34.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.16%
21) 2-Butanone-d5	4.15	46	150682	97.46	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.46%
24) Chloroform-d	4.62	84	182645	46.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.36%
26) 1,2-Dichloroethane-d4	5.29	65	121100	48.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.74%
32) Benzene-d6	5.32	84	381116	48.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.84%
36) 1,2-Dichloropropane-d6	6.31	67	119688	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.02%
41) Toluene-d8	7.55	98	348736	47.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.54%
43) trans-1,3-Dichloropropene-	7.83	79	55341	45.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.36%
47) 2-Hexanone-d5	8.30	63	111656	96.30	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.30%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	174027	46.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.44%
64) 1,2-Dichlorobenzene-d4	11.85	152	139606	48.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.74%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	8027	2.651	ug/L	99
3) Chloromethane	1.32	50	8318	2.727	ug/L	100
5) Vinyl chloride	1.40	62	8968	2.743	ug/L #	69
6) Bromomethane	1.62	94	6323	2.192	ug/L	93
8) Chloroethane	1.69	64	4932	2.483	ug/L	89
9) Trichlorofluoromethane	1.87	101	11792	2.757	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7057	3.255	ug/L #	82
12) 1,1-Dichloroethene	2.27	96	6791	3.266	ug/L #	1
13) Acetone	2.31	43	8029	5.076	ug/L	98
14) Carbon disulfide	2.46	76	17163	2.632	ug/L	98
15) Methyl Acetate	2.61	43	6196	2.460	ug/L	96
16) Methylene chloride	2.68	84	6739	2.838	ug/L	94
17) trans-1,2-Dichloroethene	2.96	96	5716	2.624	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	16664	2.509	ug/L	97
19) 1,1-Dichloroethane	3.43	63	11469	2.805	ug/L	97
20) cis-1,2-Dichloroethene	4.20	96	6358	2.600	ug/L	99
22) 2-Butanone	4.25	43	7872	4.168	ug/L	82

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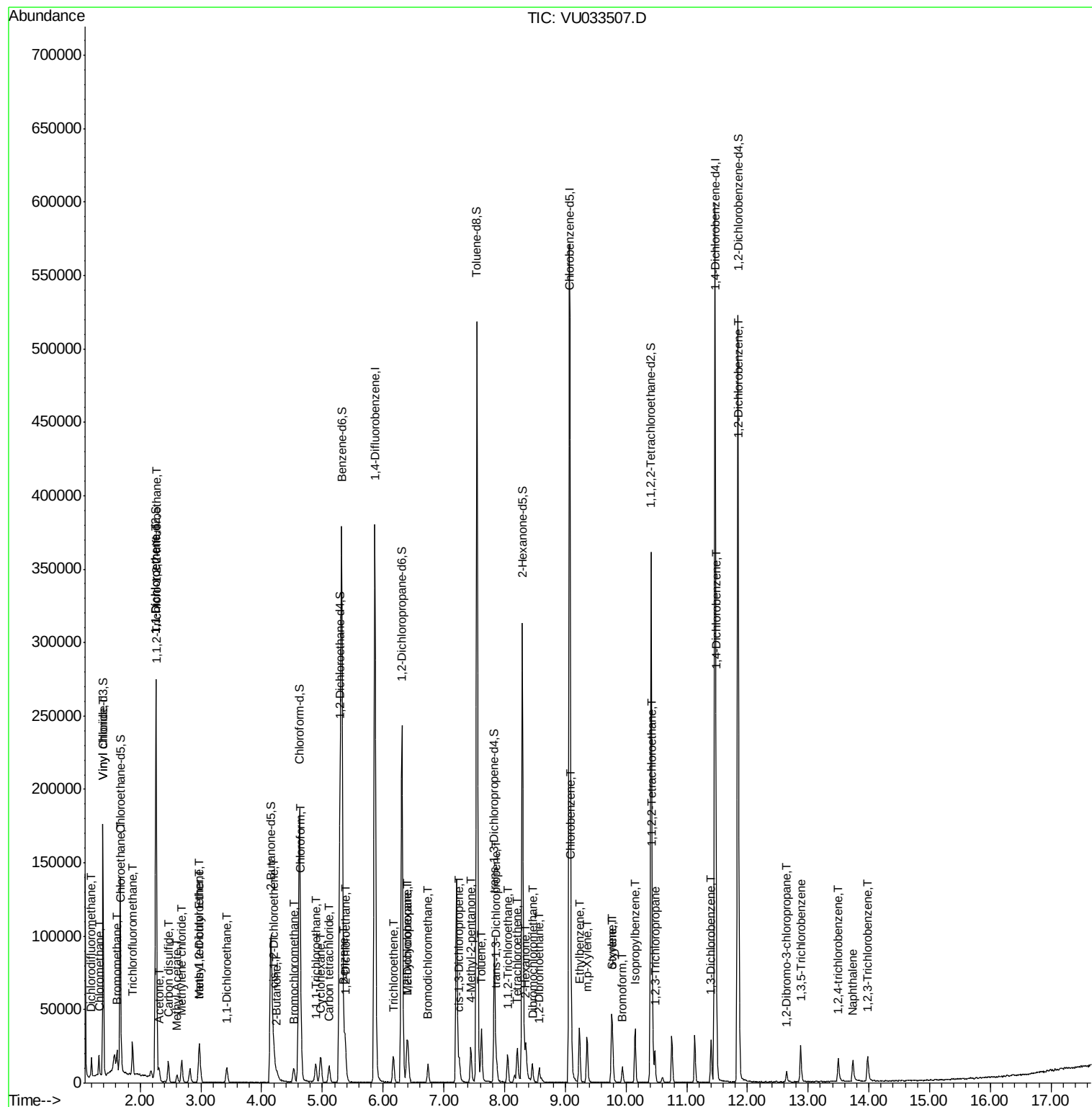
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3174	2.488	ug/L	93
25) Chloroform	4.65	83	15385	3.575	ug/L	92
27) 1,2-Dichloroethane	5.39	62	9411	2.840	ug/L	100
29) Cyclohexane	4.97	56	8436	2.461	ug/L	96
30) 1,1,1-Trichloroethane	4.89	97	9377	2.593	ug/L	96
31) Carbon tetrachloride	5.11	117	8143	2.586	ug/L	99
33) Benzene	5.37	78	24990	2.757	ug/L	100
34) Trichloroethene	6.17	95	6324	2.645	ug/L	93
35) Methylcyclohexane	6.40	83	8922	2.391	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6402	2.638	ug/L #	95
38) Bromodichloromethane	6.74	83	8391	2.675	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	8846	2.336	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	16408	4.897	ug/L	97
42) Toluene	7.62	91	27359	2.807	ug/L	98
44) trans-1,3-Dichloropropene	7.86	75	8735	2.552	ug/L	93
45) 1,1,2-Trichloroethane	8.05	97	6524	2.832	ug/L	92
46) Tetrachloroethene	8.21	164	4843	2.481	ug/L	93
48) 2-Hexanone	8.35	43	15267	5.637	ug/L #	95
49) Dibromochloromethane	8.46	129	6571	2.507	ug/L	93
50) 1,2-Dibromoethane	8.57	107	6856	2.687	ug/L #	98
51) Chlorobenzene	9.10	112	17046	2.671	ug/L	95
52) Ethylbenzene	9.23	91	26044	2.481	ug/L	98
53) m,p-Xylene	9.36	106	9188	2.280	ug/L	95
54) o-xylene	9.76	106	9225	2.360	ug/L	93
55) Styrene	9.78	104	13976	2.105	ug/L	92
56) Isopropylbenzene	10.15	105	23460	2.297	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	11933	2.872	ug/L	92
59) 1,2,3-Trichloropropane	10.48	75	8575	2.677	ug/L	99
61) Bromoform	9.94	173	4976	2.614	ug/L #	97
62) 1,3-Dichlorobenzene	11.40	146	12781	2.641	ug/L	95
63) 1,4-Dichlorobenzene	11.49	146	13509	2.686	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	13838	2.828	ug/L	91
66) 1,2-Dibromo-3-chloropropan	12.65	75	2186	2.418	ug/L #	88
67) 1,3,5-Trichlorobenzene	12.88	180	9017	2.309	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	6187	1.854	ug/L	97
69) Naphthalene	13.74	128	17261	1.803	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.98	180	7461	2.126	ug/L	99

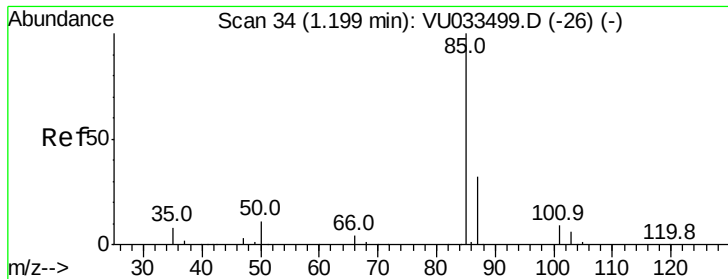
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.651 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

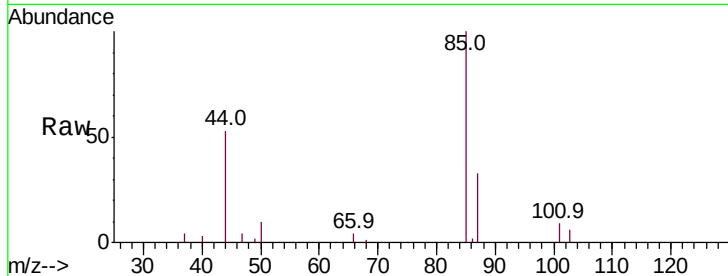
MDL07

Tot Ion: 85 Resp: 8027

Ion Ratio Lower Upper

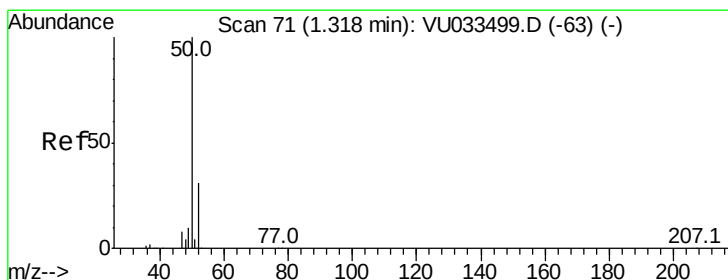
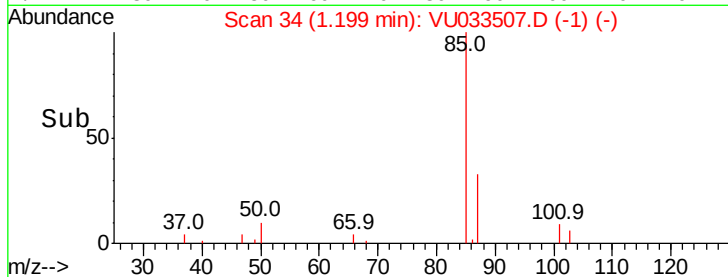
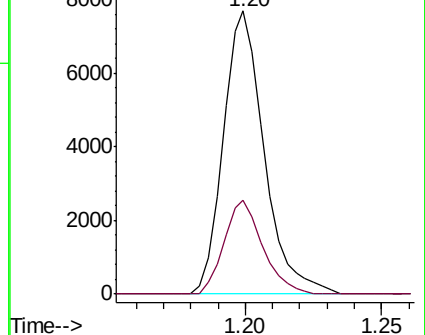
85 100

87 31.4 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033499.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033499.D (-26) (-)



#3

Chloromethane

Concen: 2.727 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033507.D

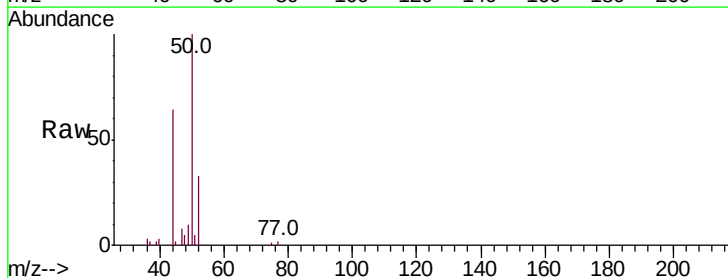
Acq: 30 Jul 2019 21:06

Tgt Ion: 50 Resp: 8318

Ion Ratio Lower Upper

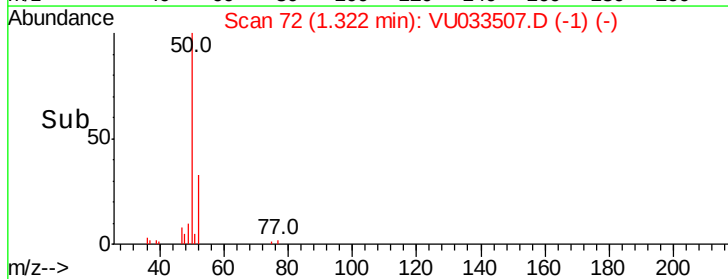
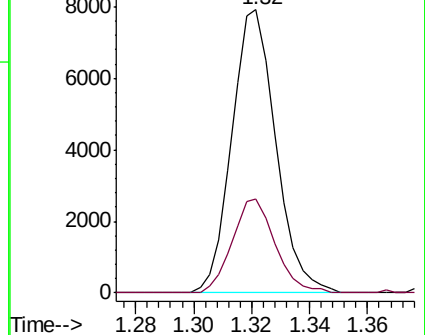
50 100

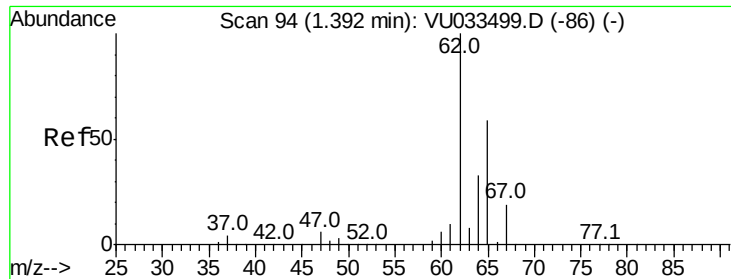
52 33.2 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033499.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033499.D (-63) (-)





#5

Vinyl chloride

Concen: 2.743 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

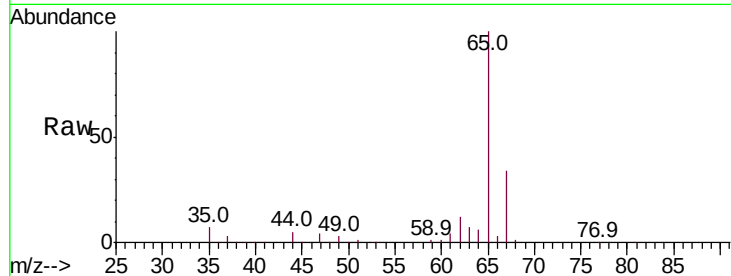
MDL07

Tot Ion: 62 Resp: 8968

Ion Ratio Lower Upper

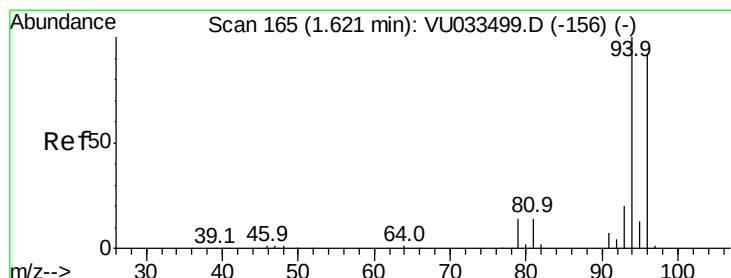
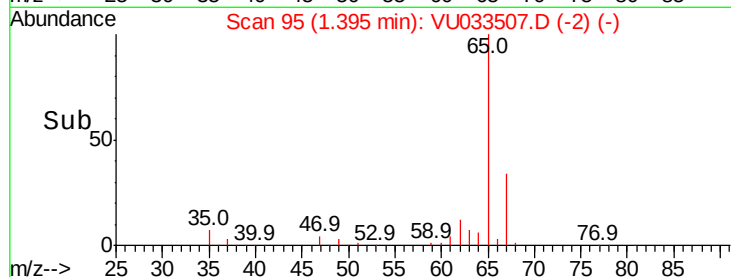
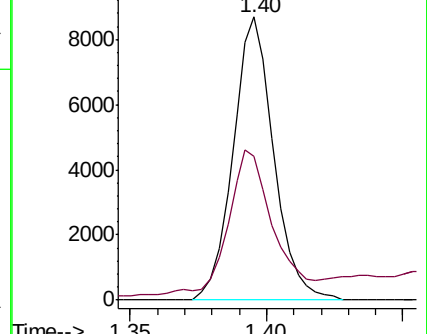
62 100

64 50.9 23.4 43.4#



Abundance Ion 62.00 (61.70 to 62.70): VU033499.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033499.D (-86) (-)



#6

Bromomethane

Concen: 2.192 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033507.D

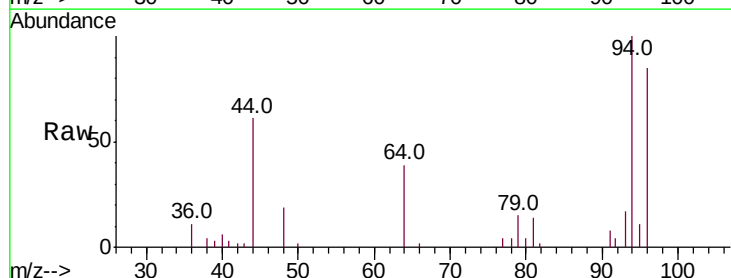
Acq: 30 Jul 2019 21:06

Tgt Ion: 94 Resp: 6323

Ion Ratio Lower Upper

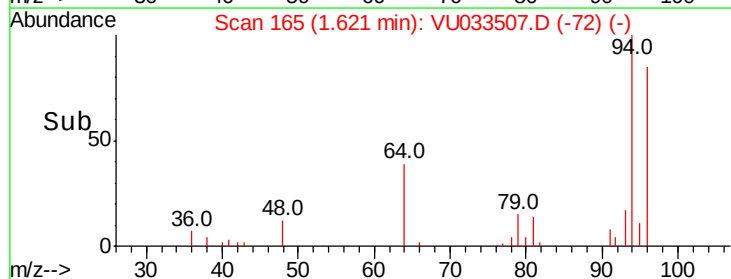
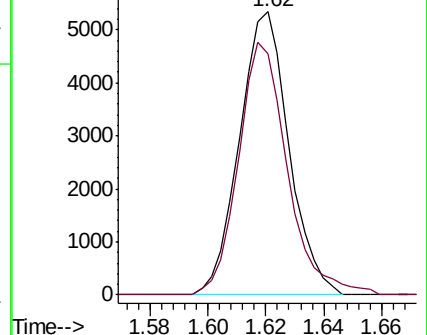
94 100

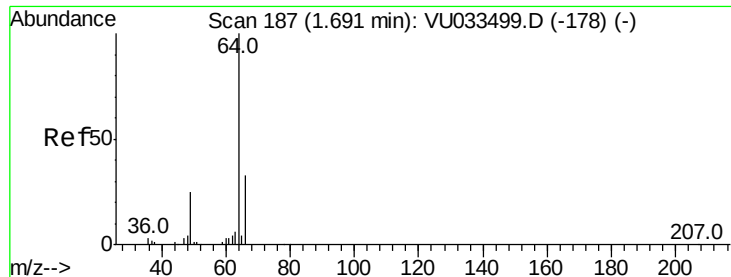
96 85.4 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033499.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU033499.D (-156) (-)





#8

Chloroethane

Concen: 2.483 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

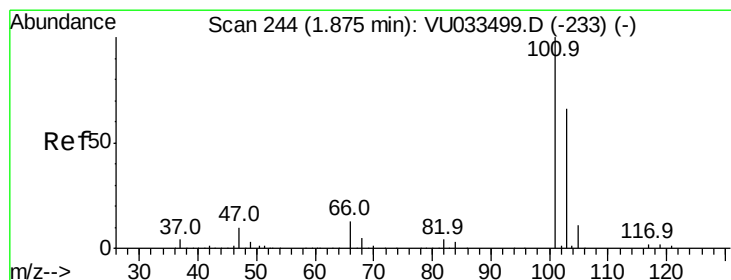
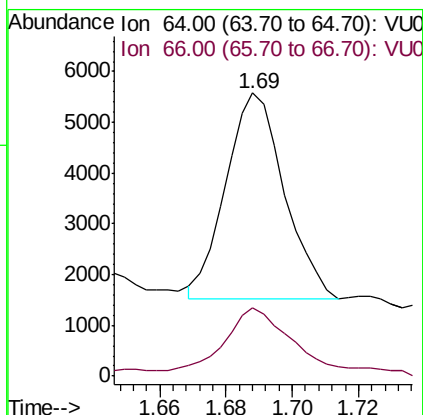
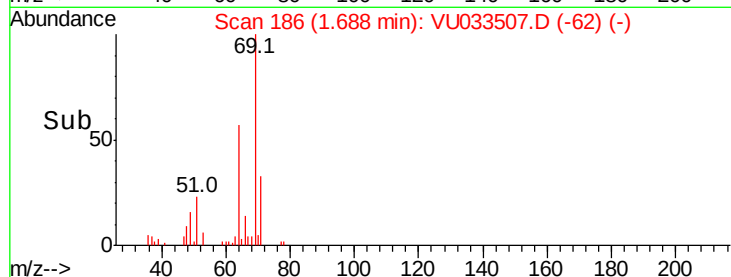
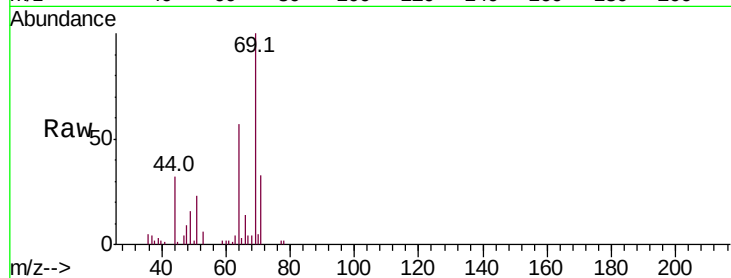
MDL07

Tot Ion: 64 Resp: 4932

Ion Ratio Lower Upper

64 100

66 24.2 21.1 39.3



#9

Trichlorofluoromethane

Concen: 2.757 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033507.D

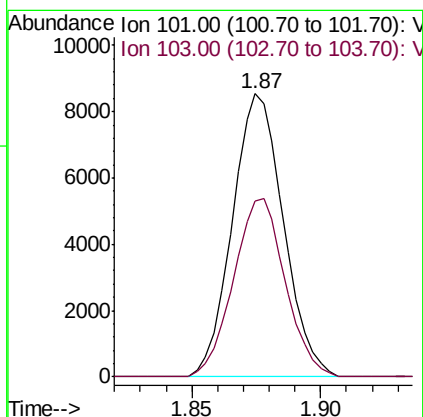
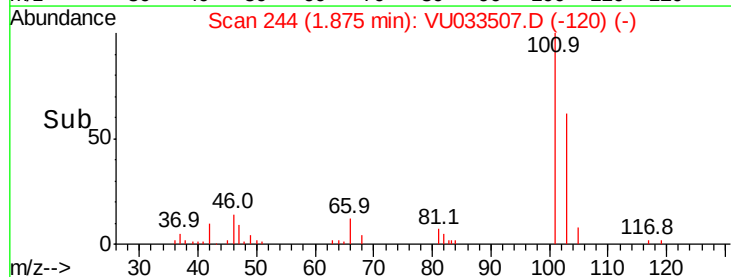
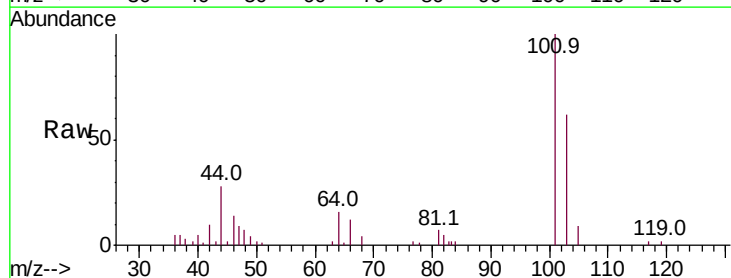
Acq: 30 Jul 2019 21:06

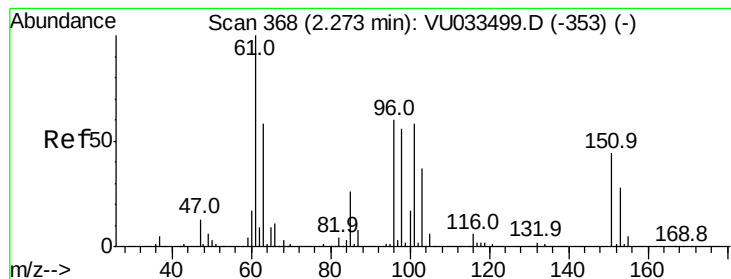
Tgt Ion: 101 Resp: 11792

Ion Ratio Lower Upper

101 100

103 63.7 51.6 77.4





#10

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

Concen: 3.255 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

MDL07

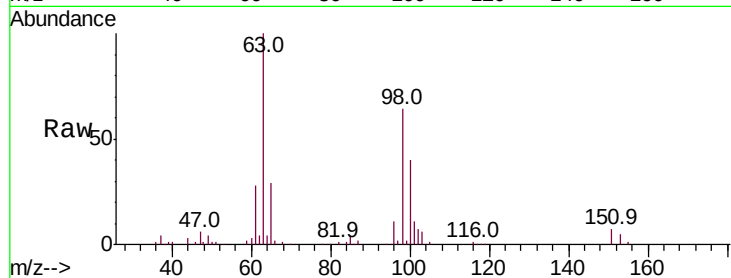
Tot Ion:101 Resp: 7057

Ion Ratio Lower Upper

101 100

85 35.3 35.8 53.8#

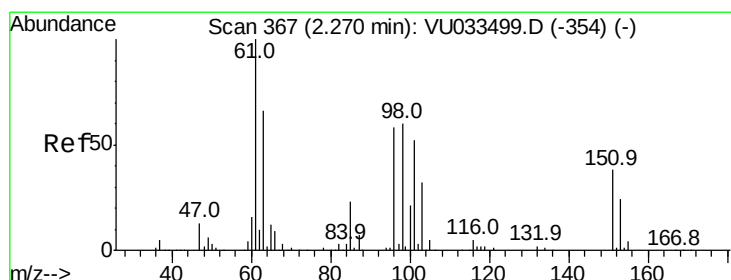
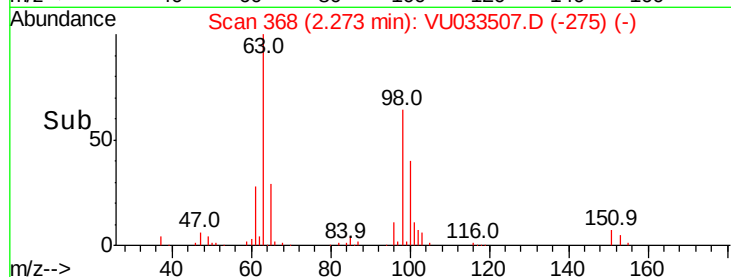
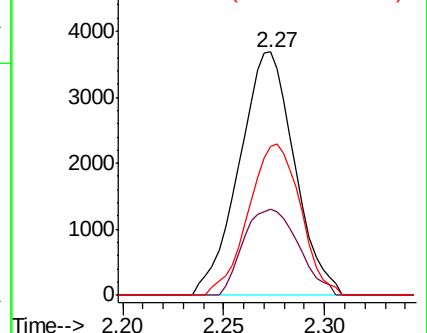
151 58.6 60.1 90.1#



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: 3.266 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

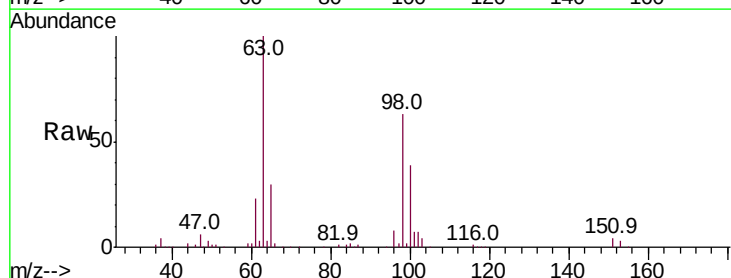
Tgt Ion: 96 Resp: 6791

Ion Ratio Lower Upper

96 100

61 279.3 119.3 221.5#

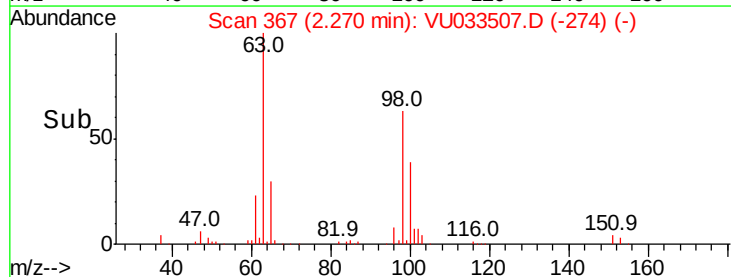
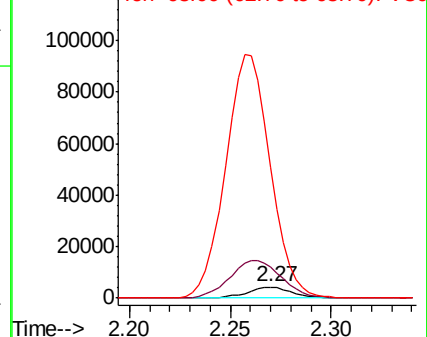
63 1189.7 86.6 160.8#

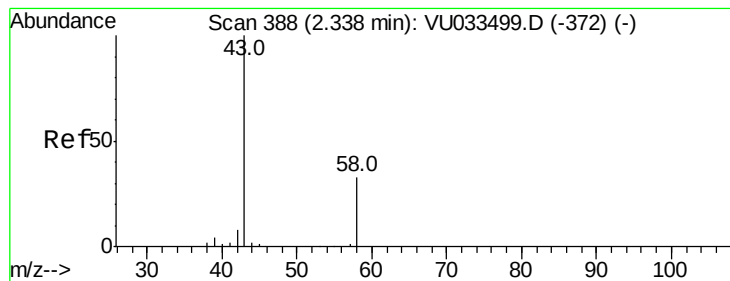


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.076 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

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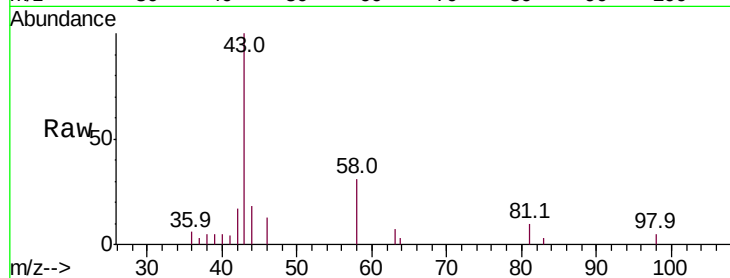
MDL07

Tot Ion: 43 Resp: 8029

Ion Ratio Lower Upper

43 100

58 32.1 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU033507.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU033507.D (-380) (-)

2.31

4000

3000

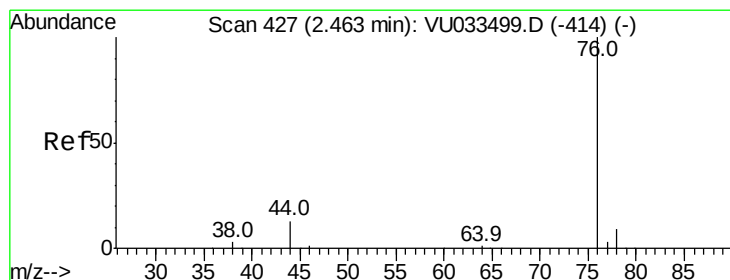
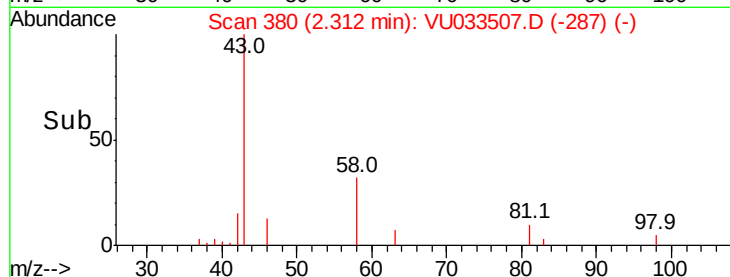
2000

1000

0

Time-->

2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 2.632 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033507.D

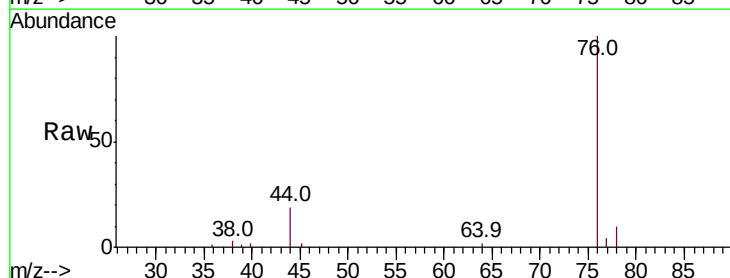
Acq: 30 Jul 2019 21:06

Tgt Ion: 76 Resp: 17163

Ion Ratio Lower Upper

76 100

78 9.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033507.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VU033507.D (-427) (-)

12000

10000

8000

6000

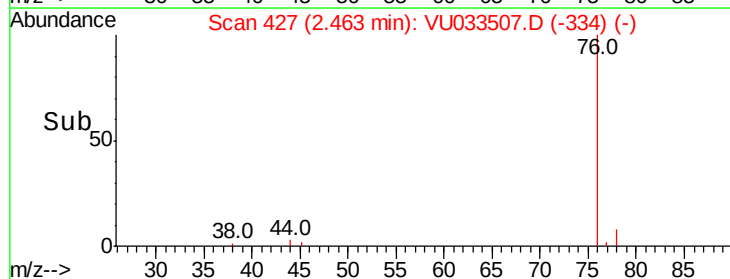
4000

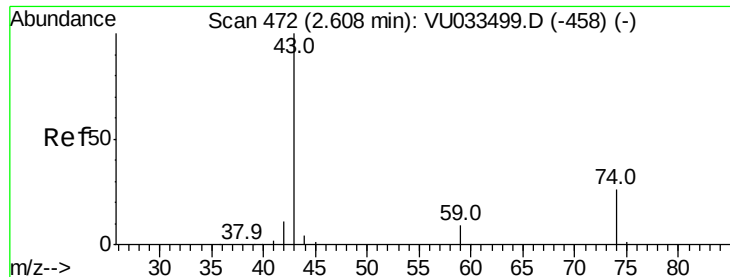
2000

0

Time-->

2.40 2.45 2.50

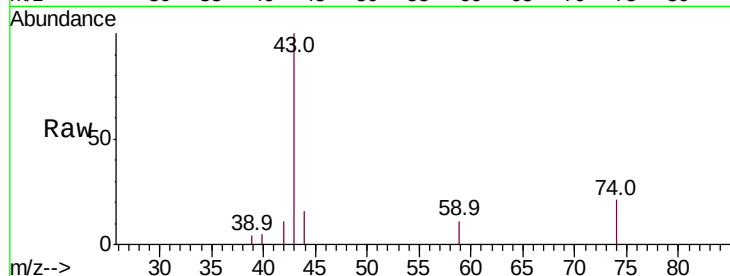




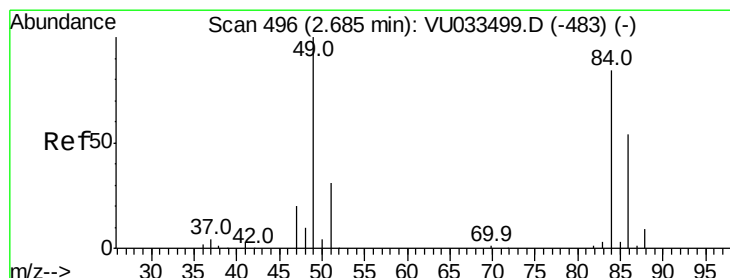
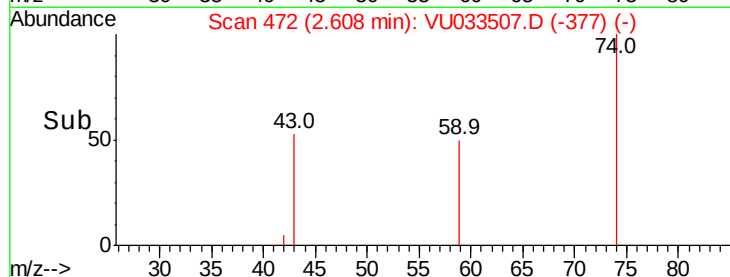
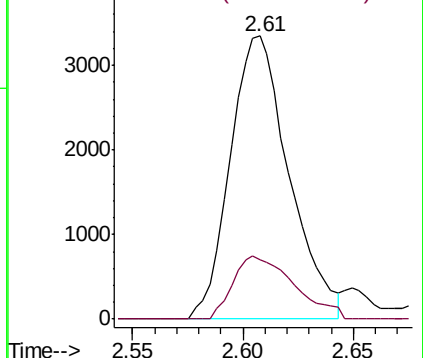
#15
Methvl Acetate
Concen: 2.460 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 43 Resp: 6196
Ion Ratio Lower Upper
43 100
74 23.2 20.1 30.1

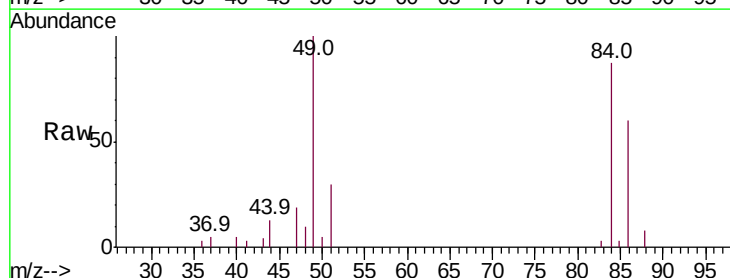


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 74.00 (73.70 to 74.70): VU0

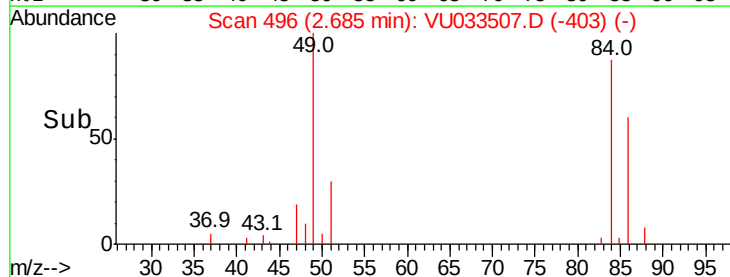
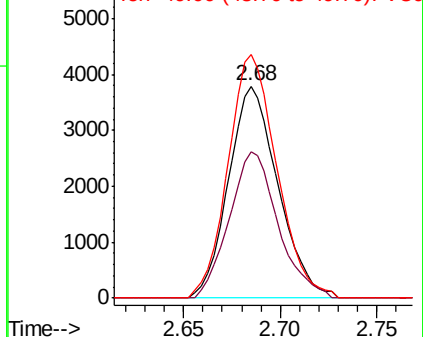


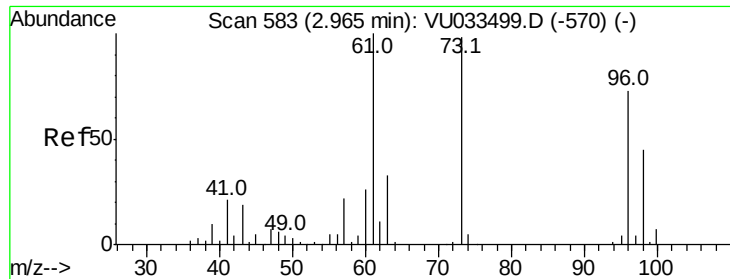
#16
Methylene chloride
Concen: 2.838 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Tgt Ion: 84 Resp: 6739
Ion Ratio Lower Upper
84 100
86 69.2 45.7 84.9
49 114.7 85.0 158.0



Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

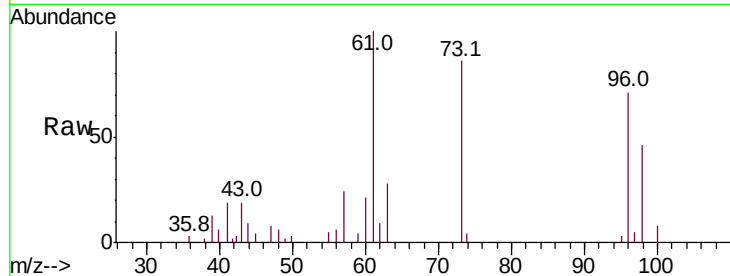




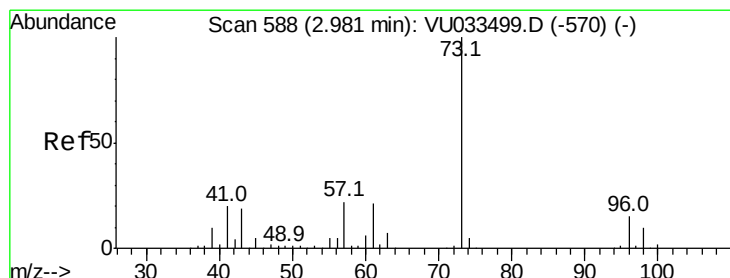
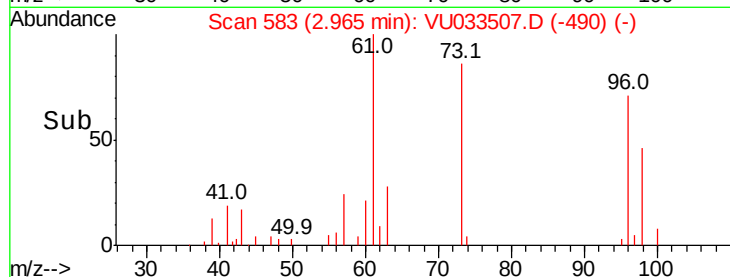
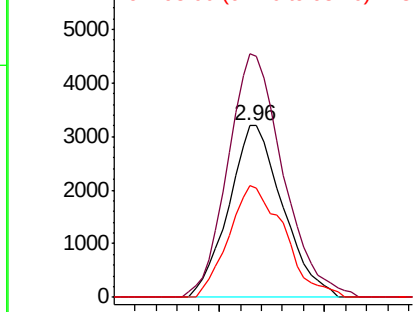
#17
trans-1,2-Dichloroethene
Concen: 2.624 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 96 Resp: 5716
Ion Ratio Lower Upper
96 100
61 141.6 98.3 182.5
98 64.8 44.3 82.3

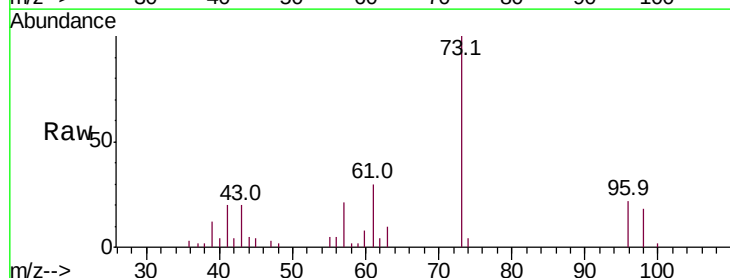


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

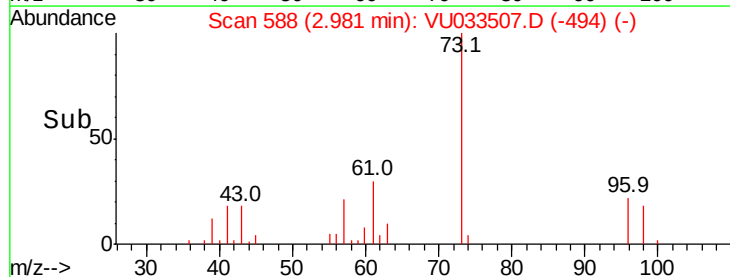
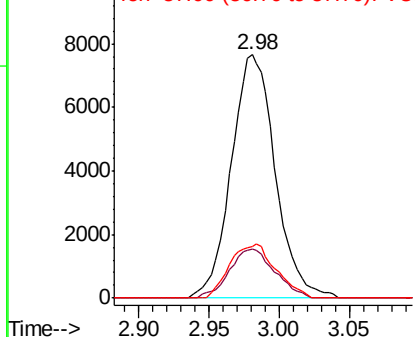


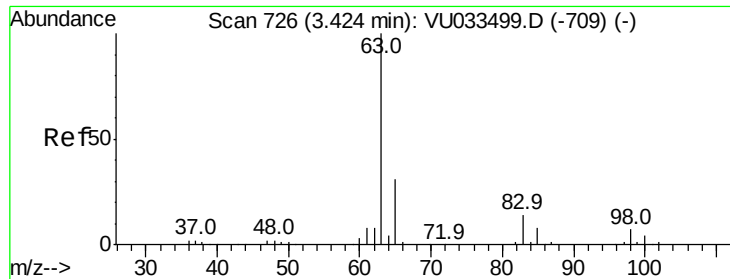
#18
Methyl tert-butyl Ether
Concen: 2.509 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Tgt Ion: 73 Resp: 16664
Ion Ratio Lower Upper
73 100
43 20.8 15.4 23.2
57 23.1 17.4 26.2



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

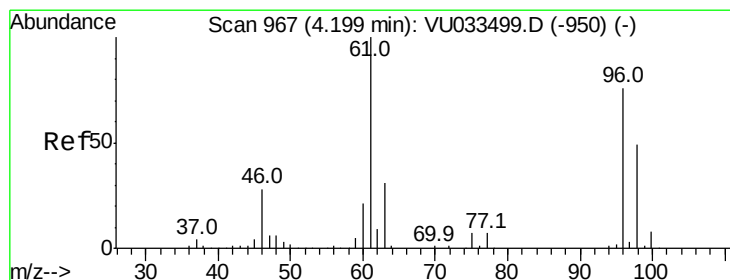
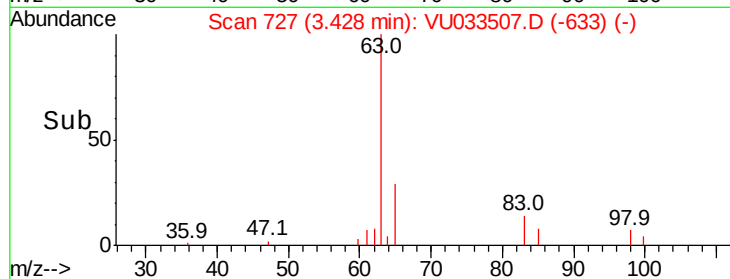
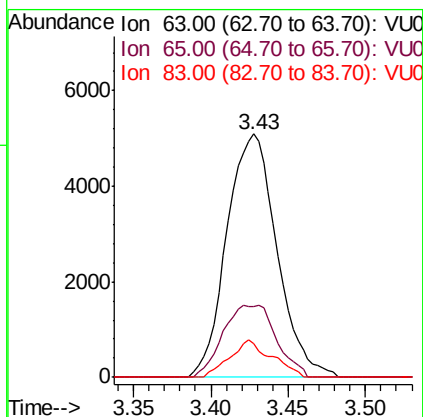
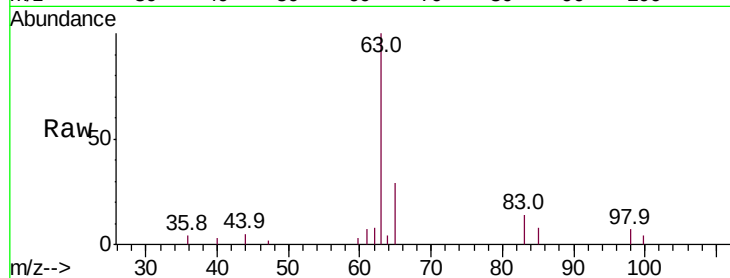




#19
 1,1-Dichloroethane
 Concen: 2.805 ug/L
 RT: 3.43 min Scan# 727
 Delta R.T. 0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

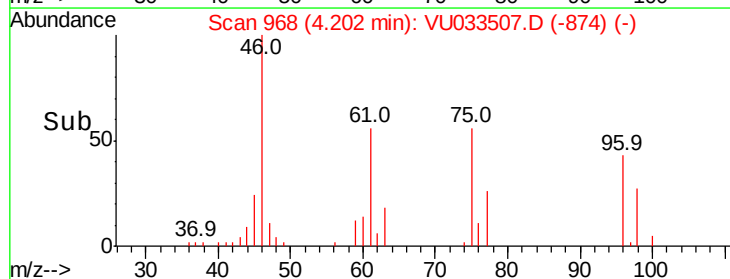
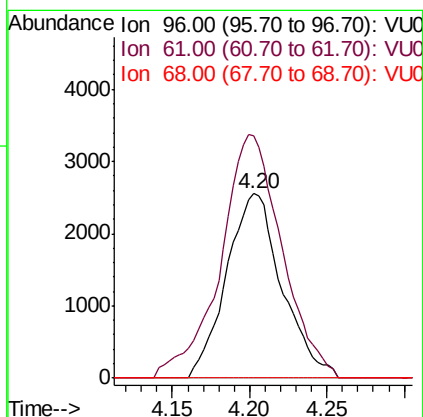
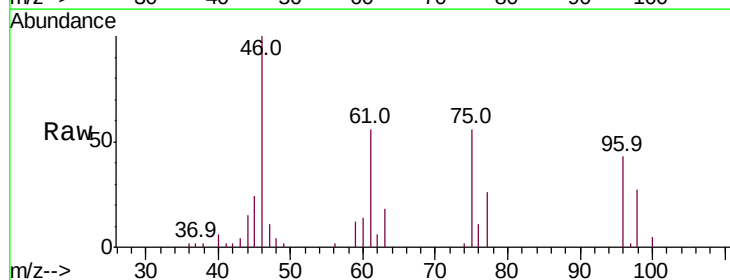
Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

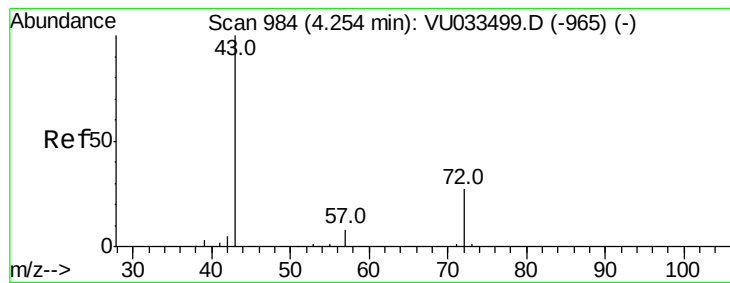
Tot Ion: 63 Resp: 11469
 Ion Ratio Lower Upper
 63 100
 65 29.2 22.0 40.8
 83 13.6 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.600 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

Tgt Ion: 96 Resp: 6358
 Ion Ratio Lower Upper
 96 100
 61 131.6 91.3 169.6
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 4.168 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

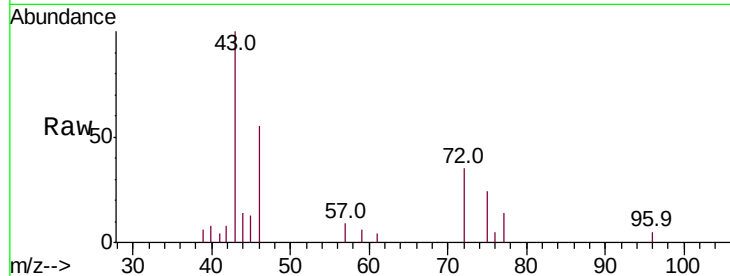
MDL07

Tot Ion: 43 Resp: 7872

Ion Ratio Lower Upper

43 100

72 18.7 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VU033499.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU033499.D (-965) (-)

4.25

3000

2500

2000

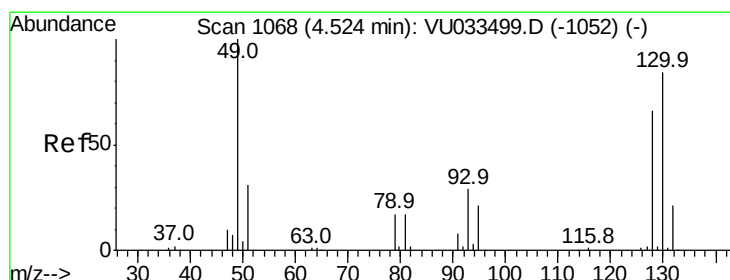
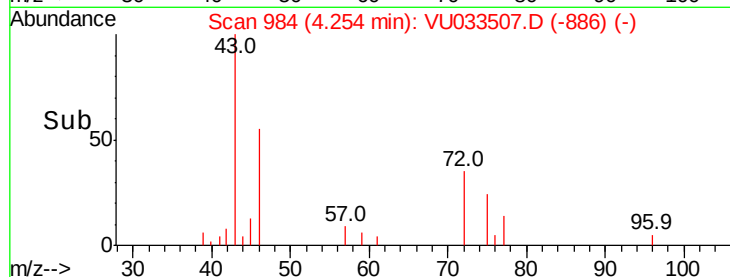
1500

1000

500

0

Time-->



#23

Bromochloromethane

Concen: 2.488 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Tgt Ion: 128 Resp: 3174

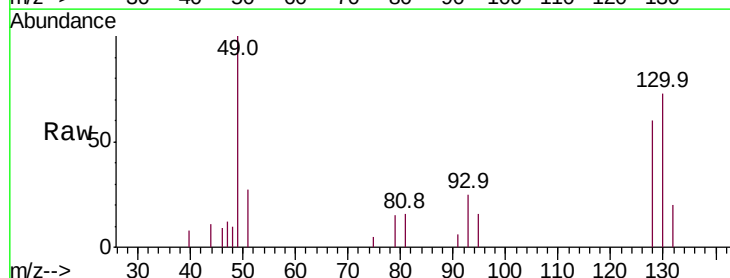
Ion Ratio Lower Upper

128 100

49 166.5 108.4 201.2

130 121.7 89.7 166.5

51 44.8 38.9 58.3



Abundance Ion 128.00 (127.70 to 128.70): VU033499.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033499.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033499.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033499.D (-1052) (-)

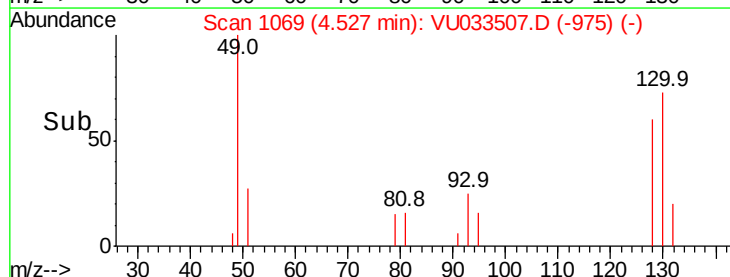
15000

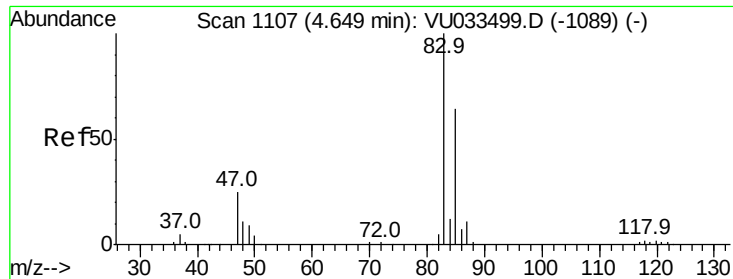
10000

5000

0

Time-->

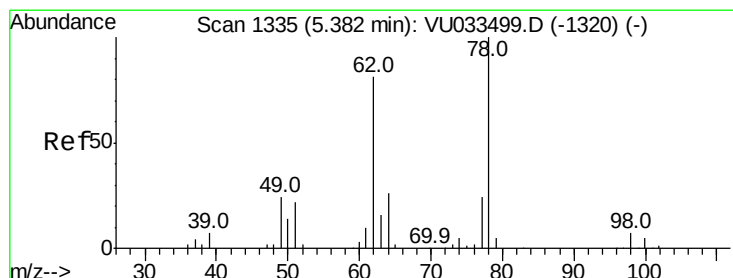
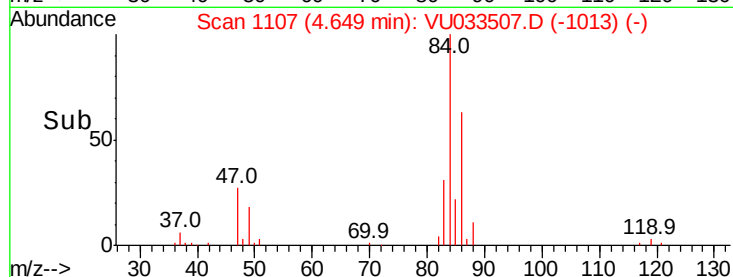
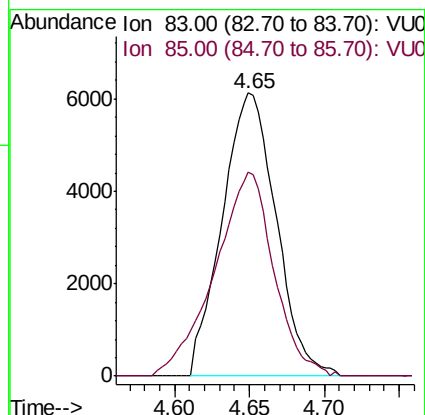
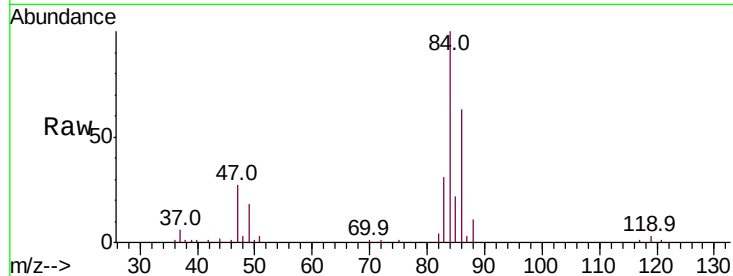




#25
Chloroform
Concen: 3.575 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

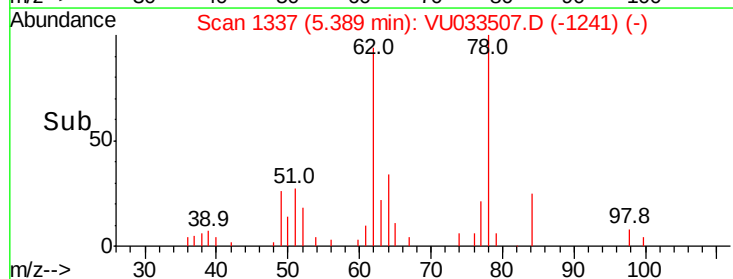
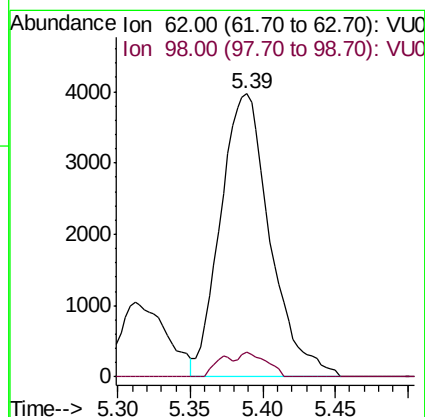
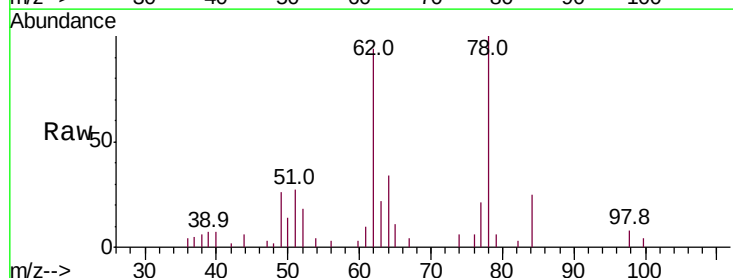
Instrument :
MSVOA_U
ClientSampleId :
MDL07

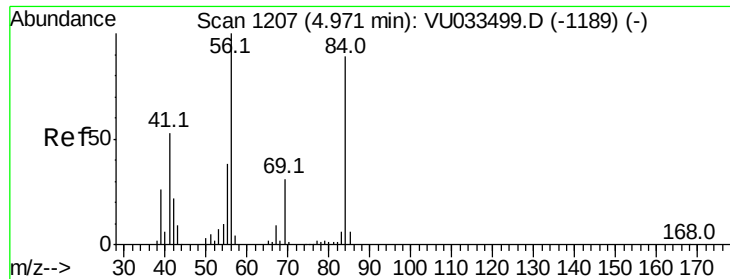
Tot Ion: 83 Resp: 15385
Ion Ratio Lower Upper
83 100
85 71.9 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.840 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Tgt Ion: 62 Resp: 9411
Ion Ratio Lower Upper
62 100
98 8.8 7.2 10.8

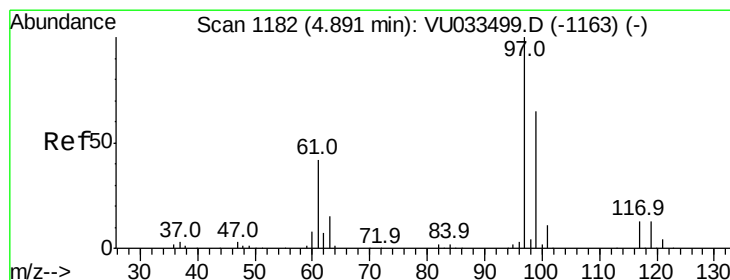
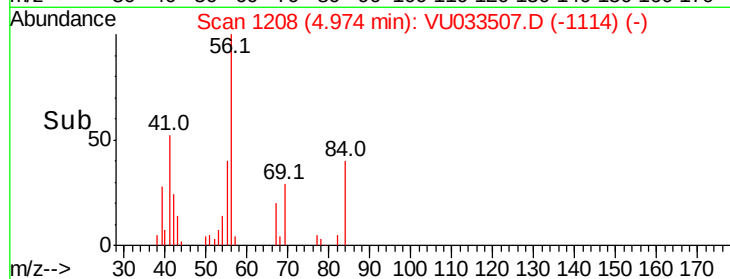
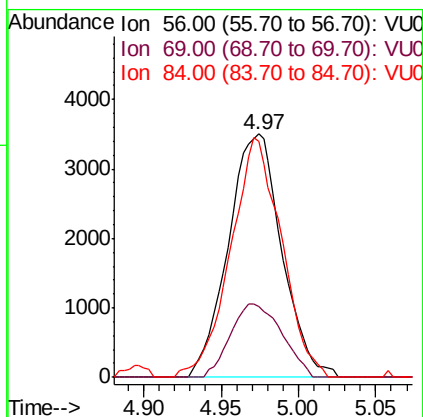
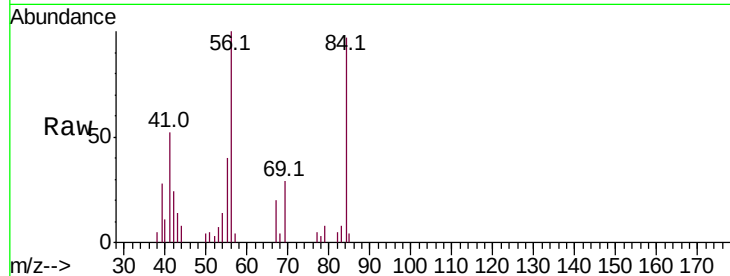




#29
Cyclohexane
Concen: 2.461 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

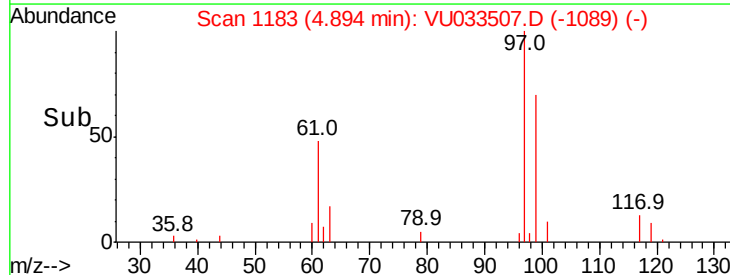
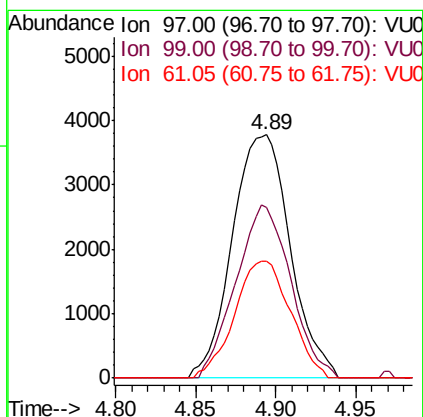
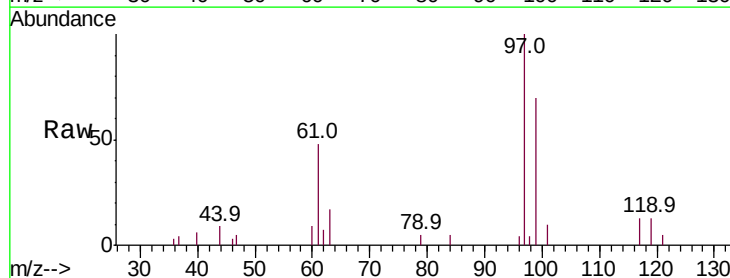
Instrument :
MSVOA_U
ClientSampleId :
MDL07

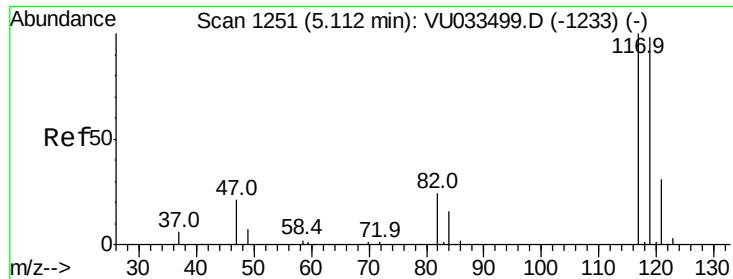
Tot Ion: 56 Resp: 8436
Ion Ratio Lower Upper
56 100
69 28.8 25.0 37.6
84 93.3 71.6 107.4



#30
1,1,1-Trichloroethane
Concen: 2.593 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Tgt Ion: 97 Resp: 9377
Ion Ratio Lower Upper
97 100
99 67.4 51.1 76.7
61 46.2 35.5 53.3

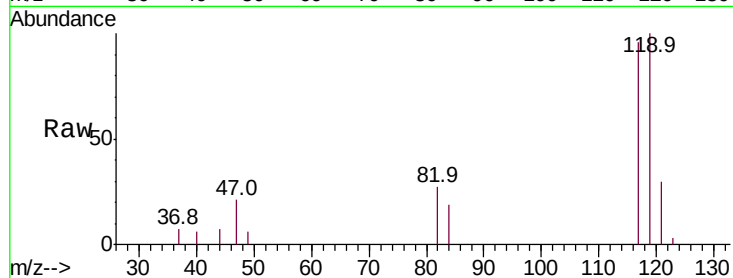




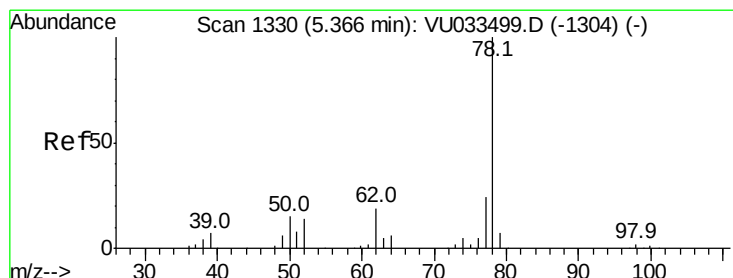
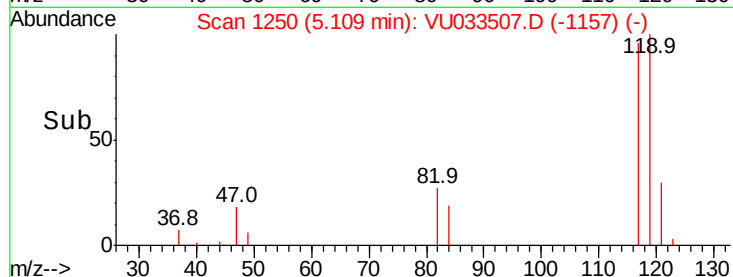
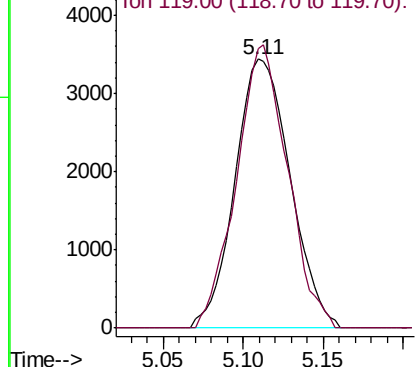
#31
Carbon tetrachloride
Concen: 2.586 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Instrument :
MSVOA_U
ClientSampleId :
MDL07

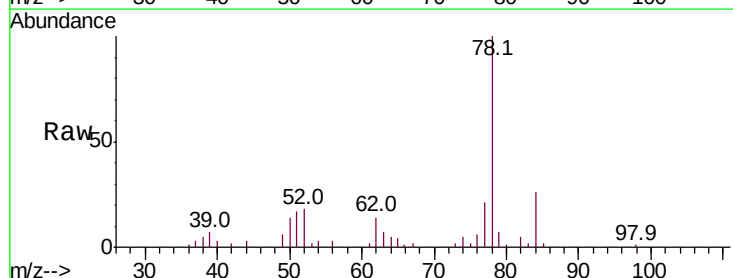
Tot Ion:117 Resp: 8143
Ion Ratio Lower Upper
117 100
119 97.3 77.0 115.4



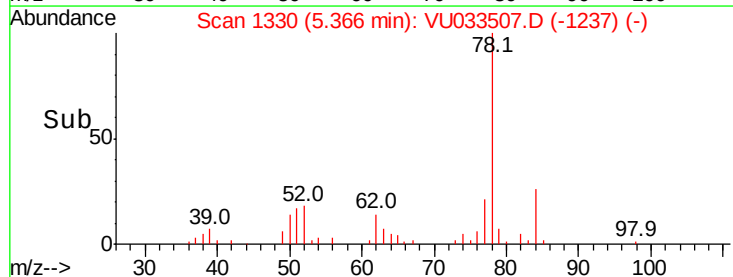
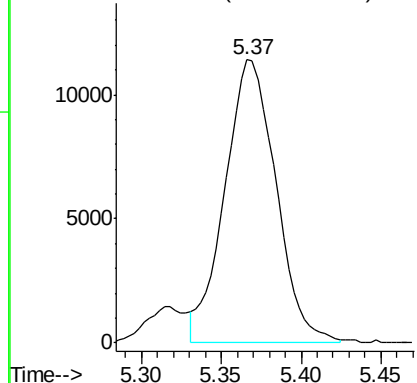
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

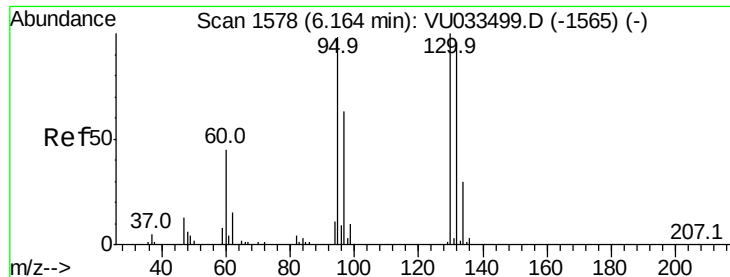


#33
Benzene
Concen: 2.757 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06
Tgt Ion: 78 Resp: 24990



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 2.645 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 95 Resp: 6324

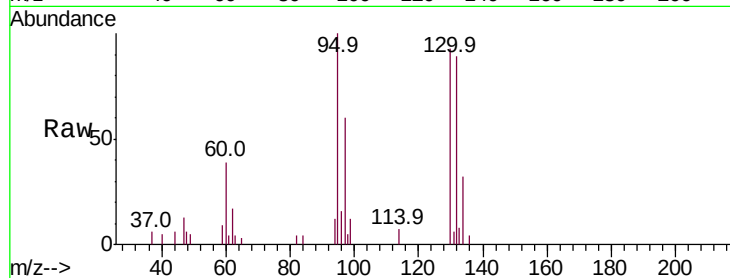
Ion Ratio Lower Upper

95 100

97 60.0 44.7 83.1

132 88.7 66.8 124.0

130 93.3 71.6 133.0



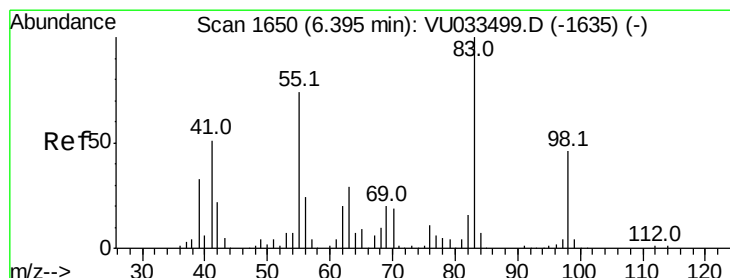
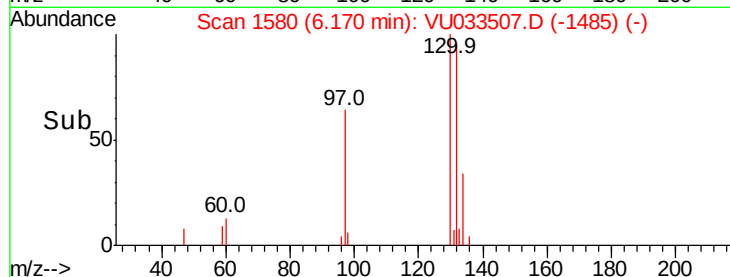
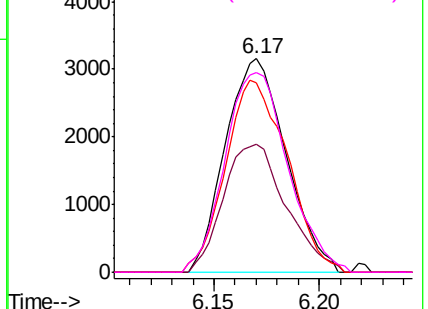
Abundance

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: 2.391 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

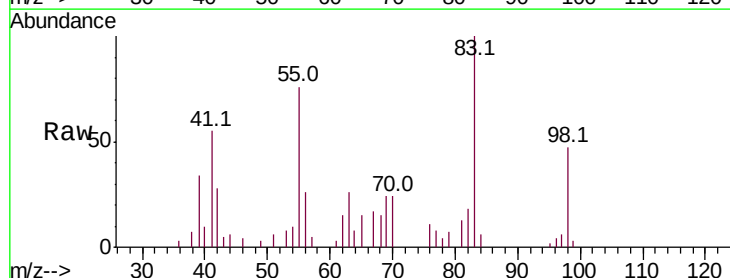
Tgt Ion: 83 Resp: 8922

Ion Ratio Lower Upper

83 100

55 77.9 60.2 90.4

98 45.1 36.5 54.7

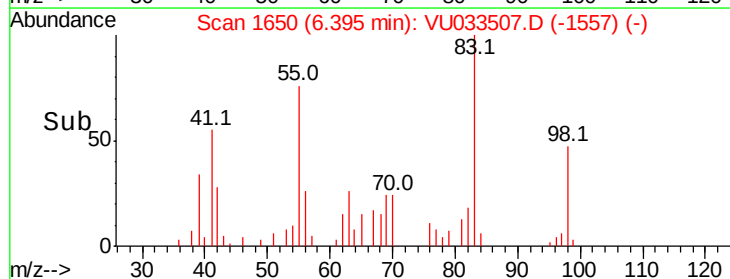
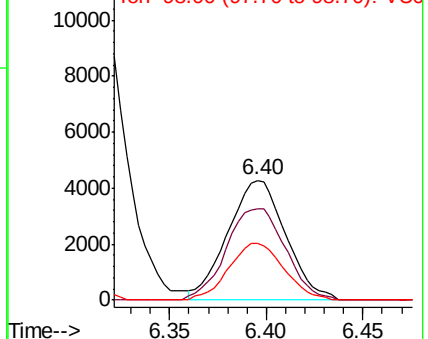


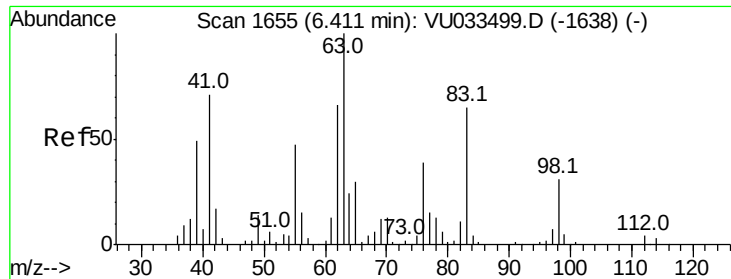
Abundance

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

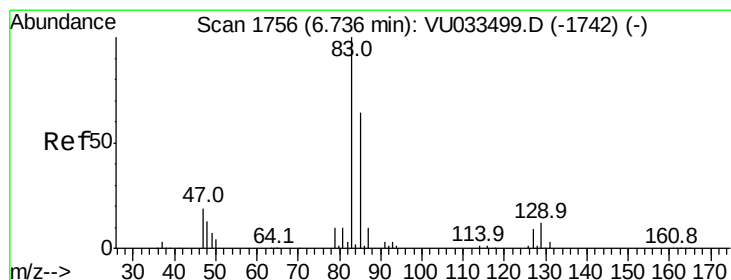
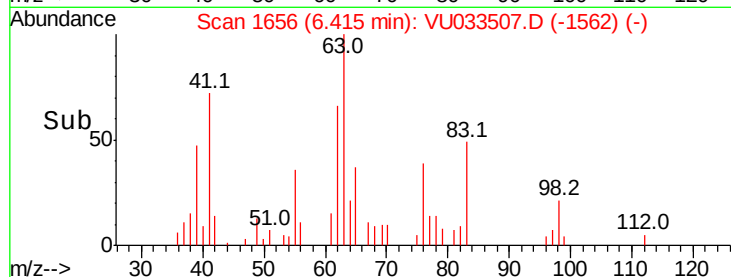
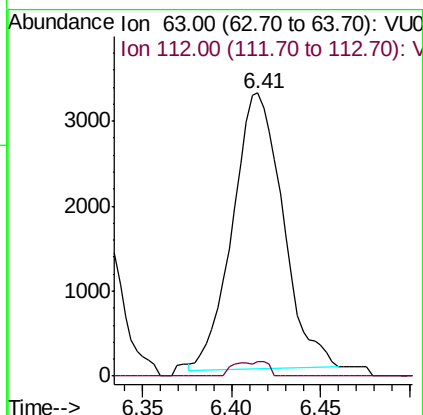
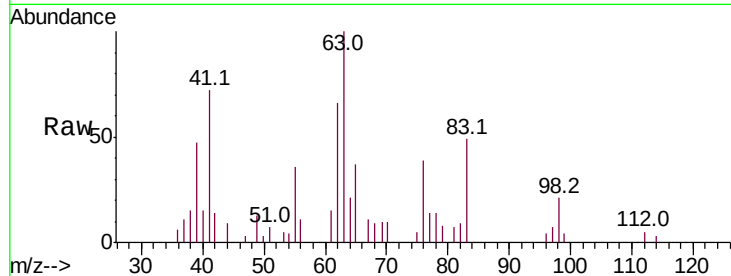




#37
 1,2-Dichloropropane
 Concen: 2.638 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

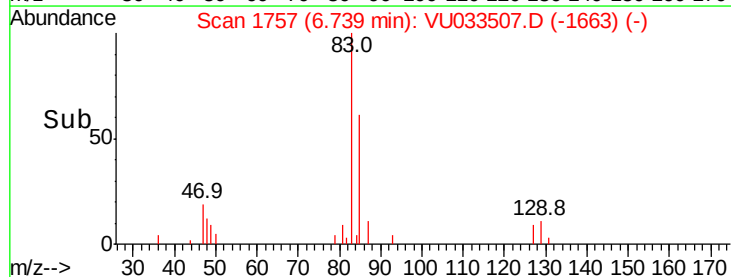
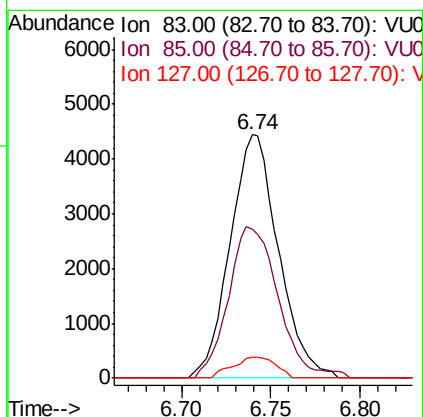
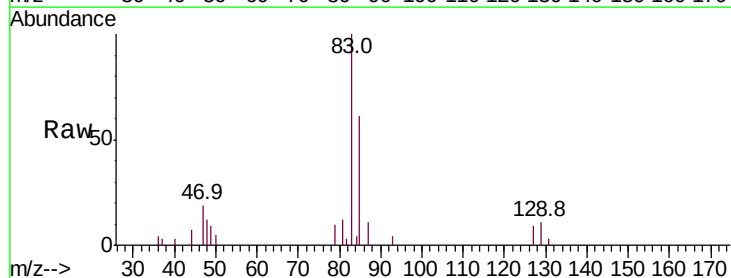
Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

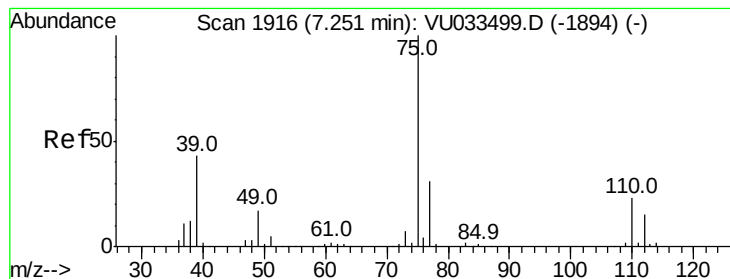
Tot Ion: 63 Resp: 6402
 Ion Ratio Lower Upper
 63 100
 112 2.1 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 2.675 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

Tgt Ion: 83 Resp: 8391
 Ion Ratio Lower Upper
 83 100
 85 61.0 45.1 83.9
 127 8.8 7.2 10.8



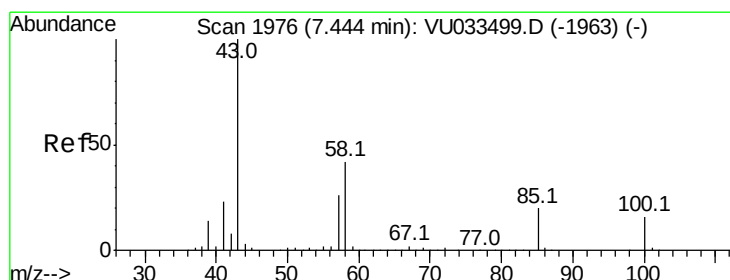
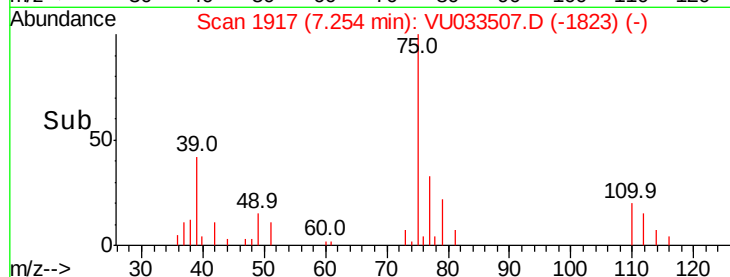
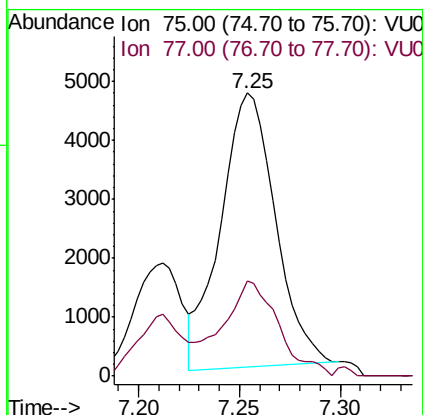
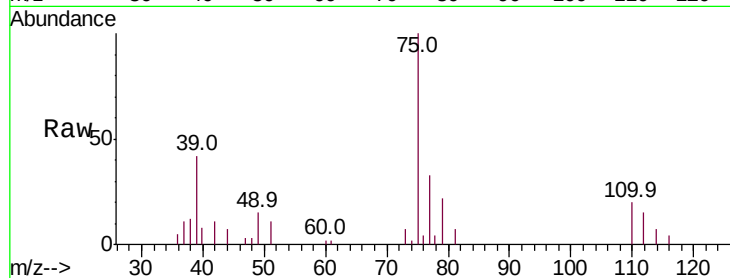


#39

cis-1,3-Dichloropropene
 Concen: 2.336 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

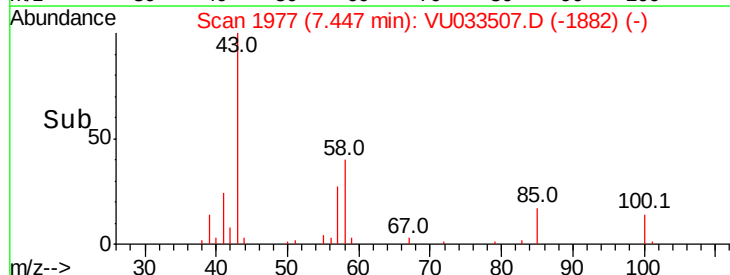
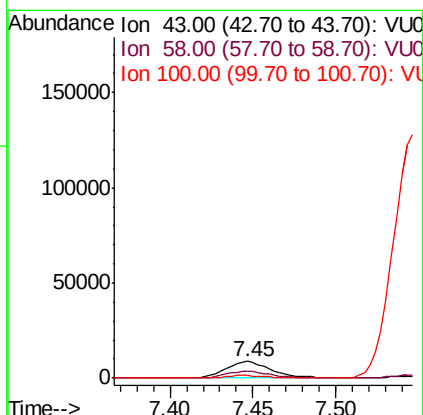
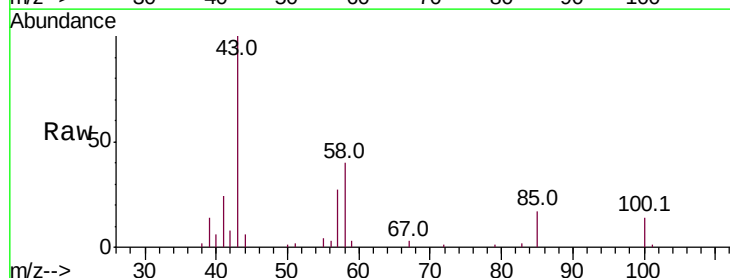
Tot Ion: 75 Resp: 8846
 Ion Ratio Lower Upper
 75 100
 77 33.5 22.3 41.5

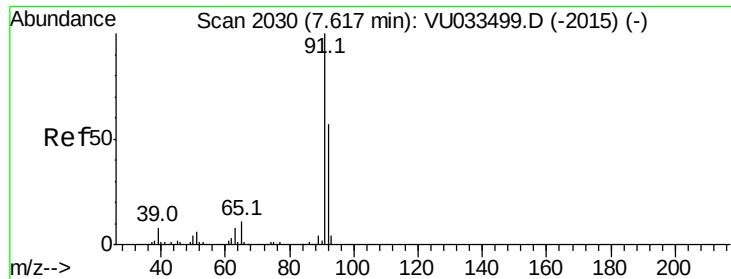


#40

4-Methyl-2-pentanone
 Concen: 4.897 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

Tgt Ion: 43 Resp: 16408
 Ion Ratio Lower Upper
 43 100
 58 39.6 32.8 49.2
 100 13.6 12.9 19.3





#42

Toluene

Concen: 2.807 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

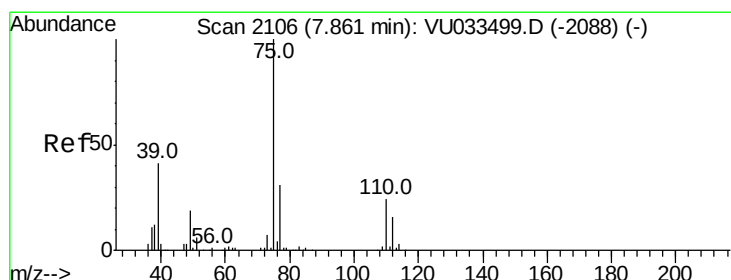
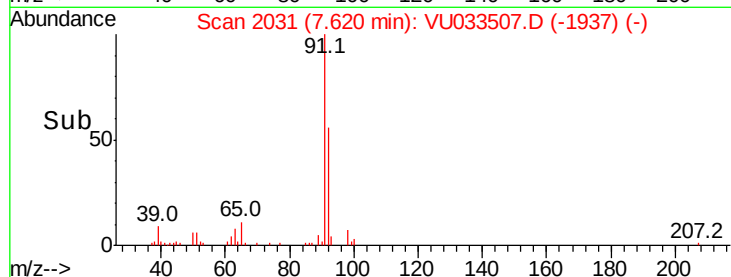
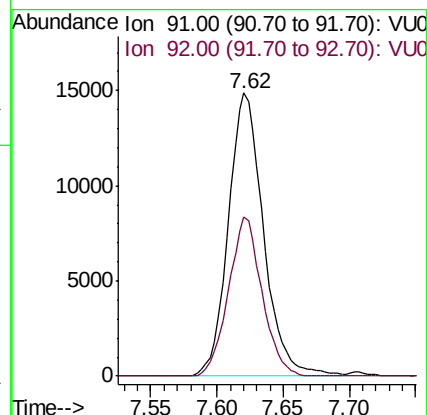
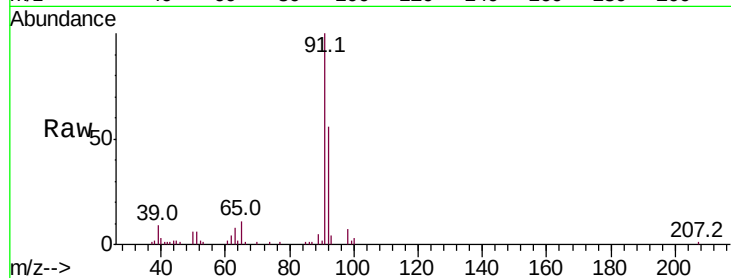
MDL07

Tot Ion: 91 Resp: 27359

Ion Ratio Lower Upper

91 100

92 56.1 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 2.552 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033507.D

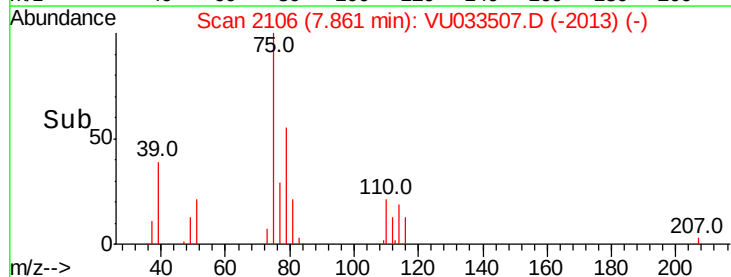
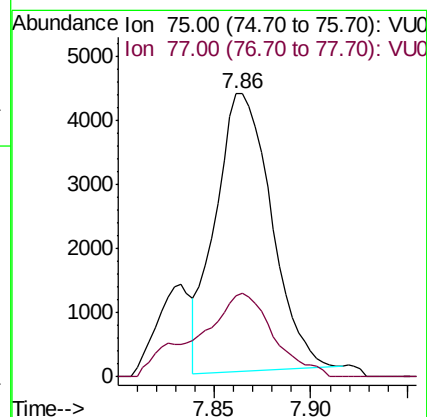
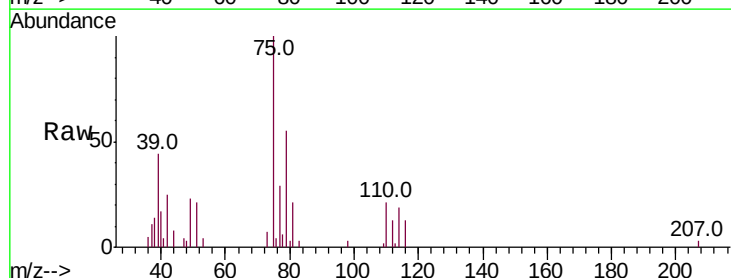
Acq: 30 Jul 2019 21:06

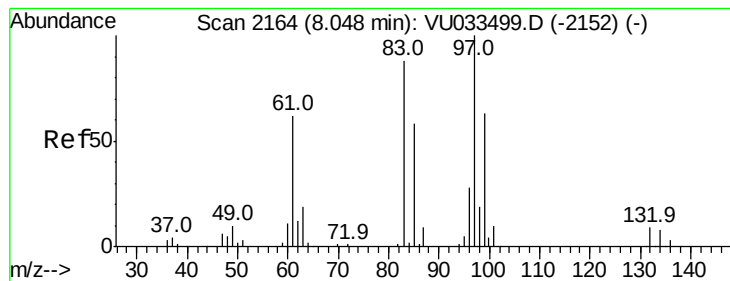
Tgt Ion: 75 Resp: 8735

Ion Ratio Lower Upper

75 100

77 28.6 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 2.832 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 97 Resp: 6524

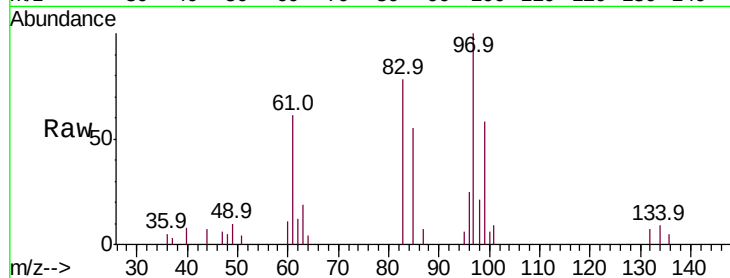
Ion Ratio Lower Upper

97 100

99 58.3 44.4 82.4

83 77.5 61.5 114.1

85 55.0 40.4 75.0

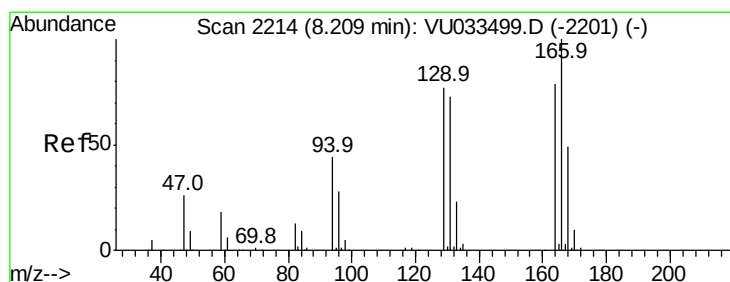
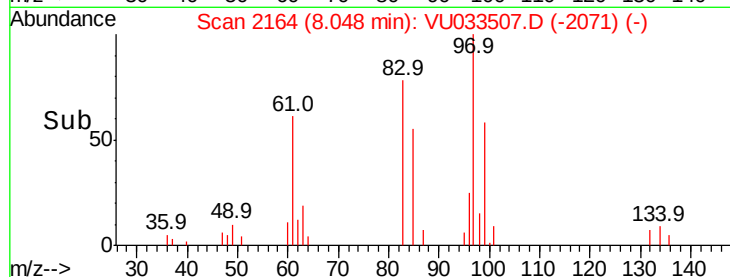
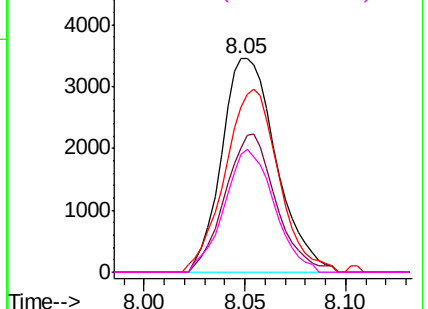


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 2.481 ug/L

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Tgt Ion:164 Resp: 4843

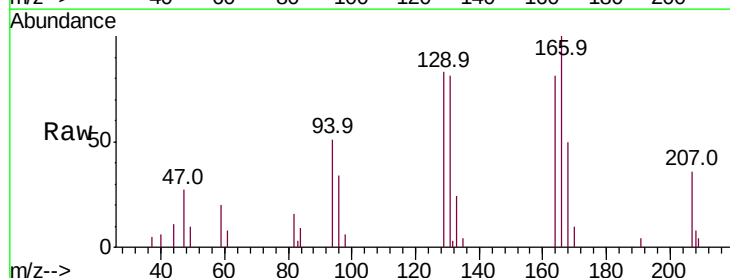
Ion Ratio Lower Upper

164 100

129 103.2 65.5 121.7

131 100.9 63.3 117.7

166 124.0 88.2 163.8

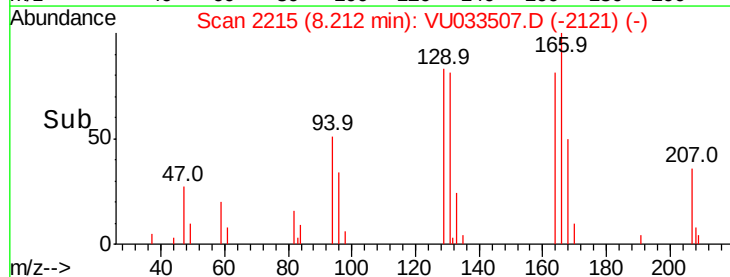
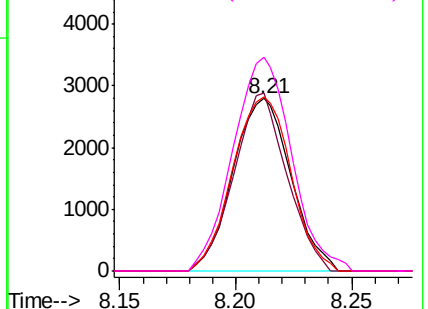


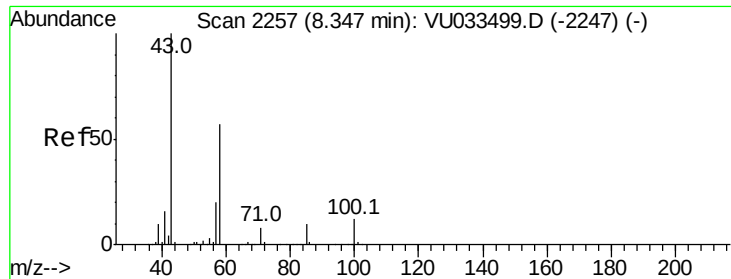
Abundance Ion 164.00 (163.70 to 164.70): V

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

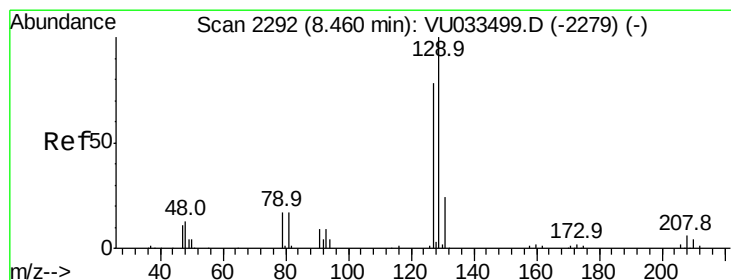
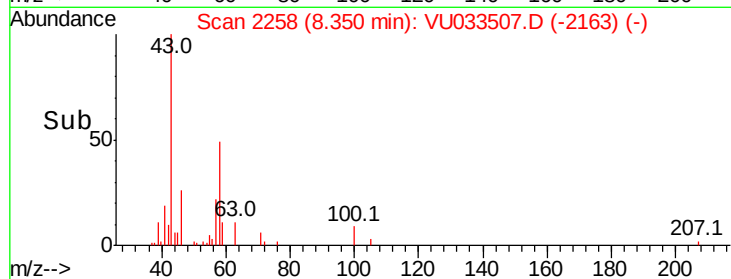
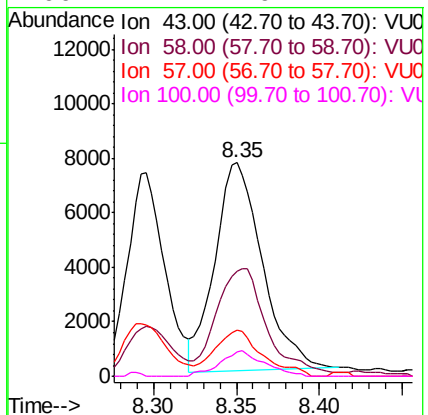
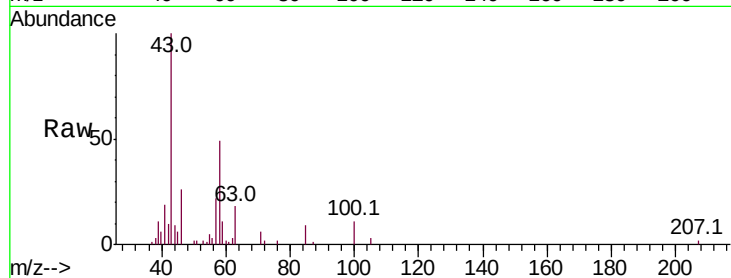




#48
2-Hexanone
Concen: 5.637 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

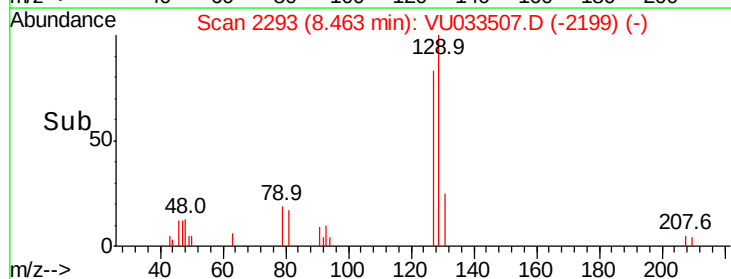
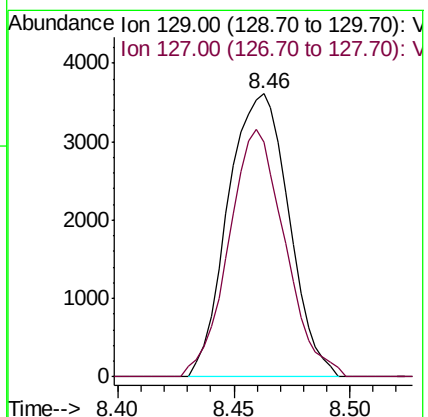
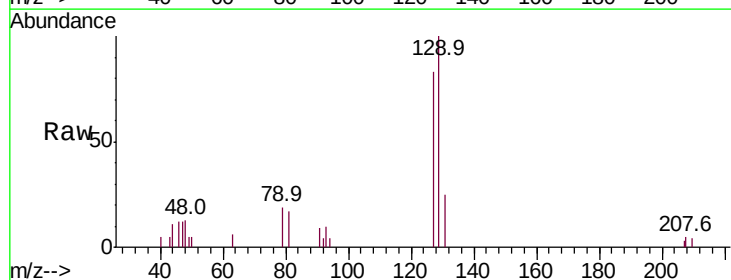
Instrument :
MSVOA_U
ClientSampleId :
MDL07

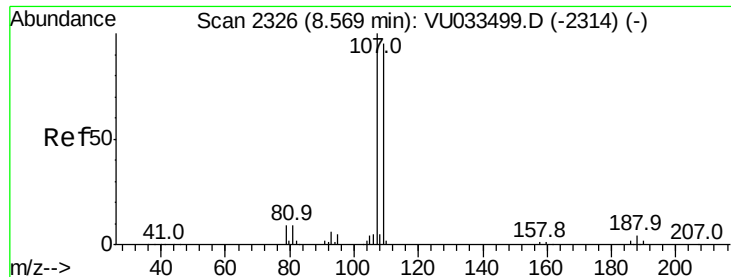
Tot Ion: 43 Resp: 15267
Ion Ratio Lower Upper
43 100
58 53.9 45.8 68.6
57 15.5 15.8 23.6#
100 11.4 9.4 14.2



#49
Dibromochloromethane
Concen: 2.507 ug/L
RT: 8.46 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU033507.D
Acq: 30 Jul 2019 21:06

Tgt Ion: 129 Resp: 6571
Ion Ratio Lower Upper
129 100
127 83.0 53.8 99.8





#50

1,2-Dibromoethane

Concen: 2.687 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

MDL07

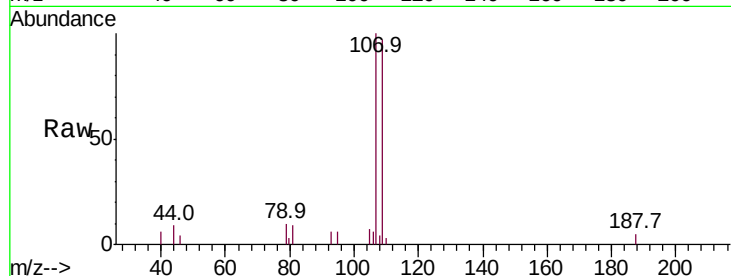
Tot Ion:107 Resp: 6856

Ion Ratio Lower Upper

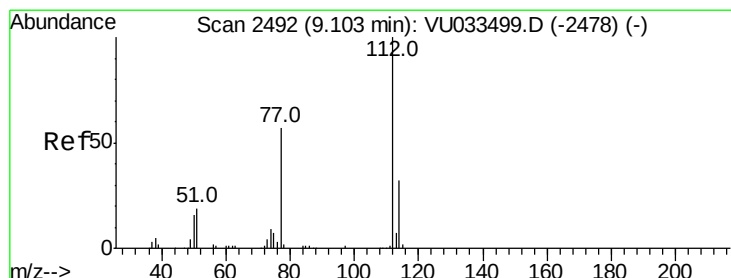
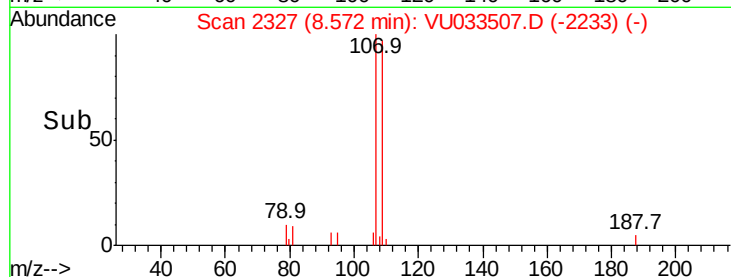
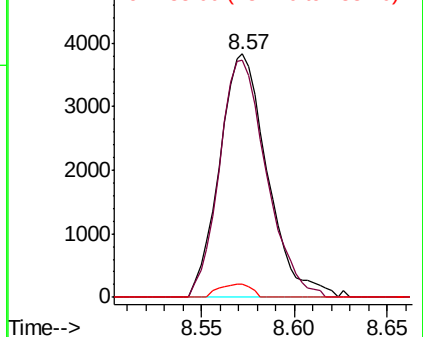
107 100

109 97.3 66.8 124.0

188 5.2 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: 2.671 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

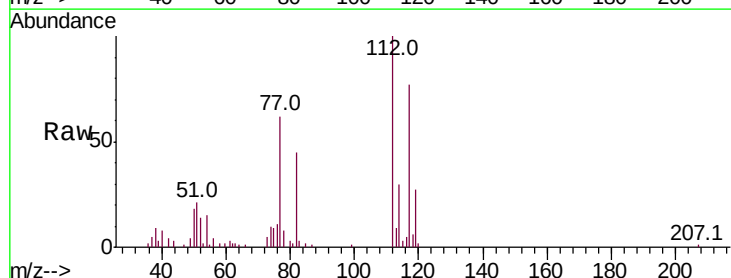
Tgt Ion:112 Resp: 17046

Ion Ratio Lower Upper

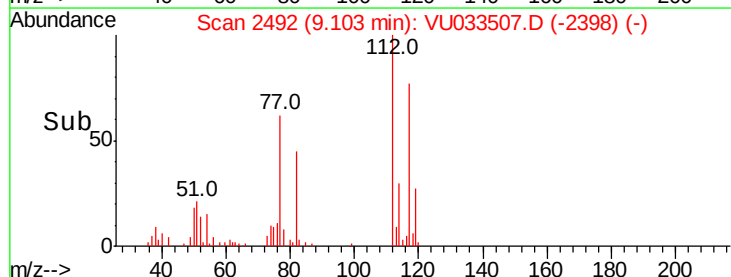
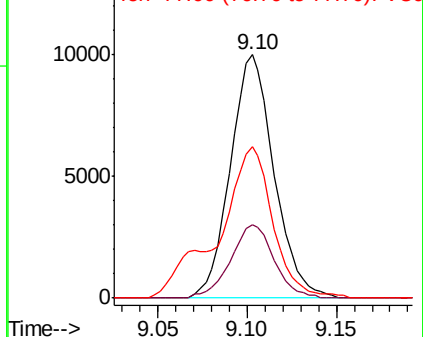
112 100

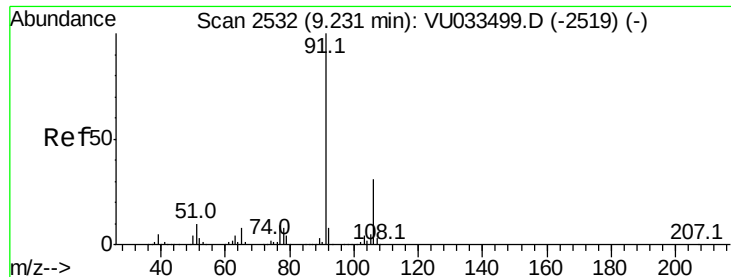
114 30.4 22.3 41.5

77 62.0 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: 2.481 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

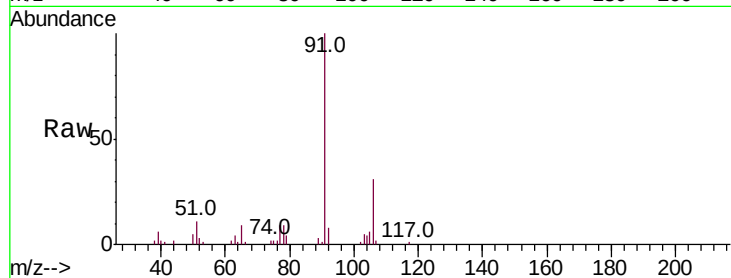
MDL07

Tot Ion: 91 Resp: 26044

Ion Ratio Lower Upper

91 100

106 30.6 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VU033499.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033499.D (-2519) (-)

9.23

15000

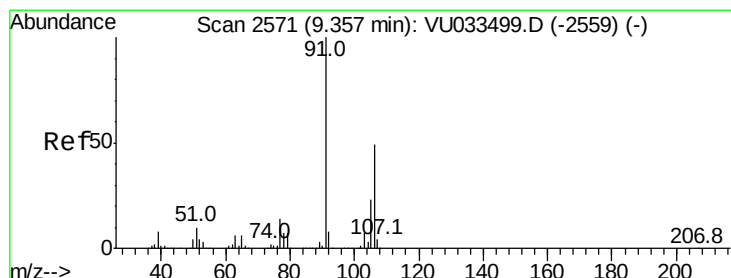
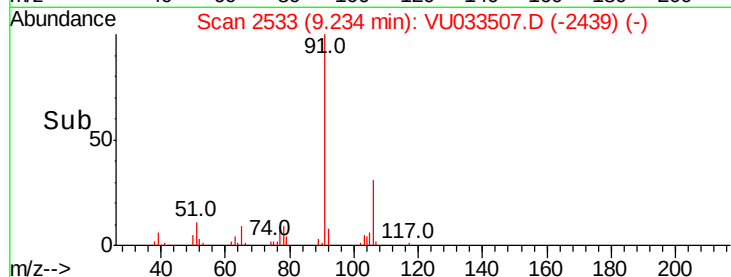
10000

5000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 2.280 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033507.D

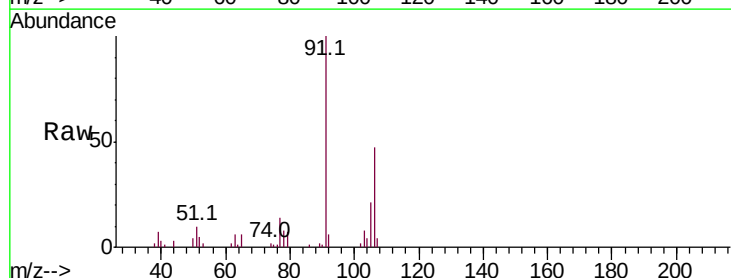
Acq: 30 Jul 2019 21:06

Tgt Ion: 106 Resp: 9188

Ion Ratio Lower Upper

106 100

91 212.4 143.0 265.6



Abundance Ion 106.00 (105.70 to 106.70): VU033499.D (-2559) (-)

Ion 91.00 (90.70 to 91.70): VU033499.D (-2559) (-)

9.36

12000

10000

8000

6000

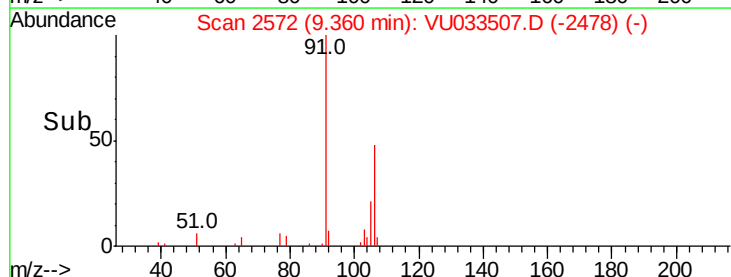
4000

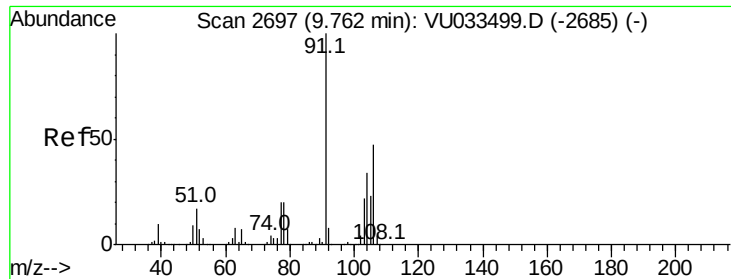
2000

0

9.30 9.35 9.40

Time-->





#54

o-xylene

Concen: 2.360 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

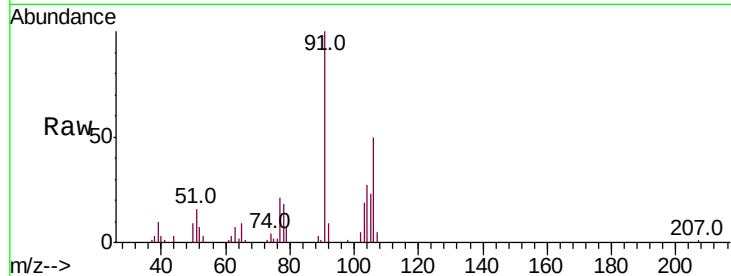
MDL07

Tot Ion:106 Resp: 9225

Ion Ratio Lower Upper

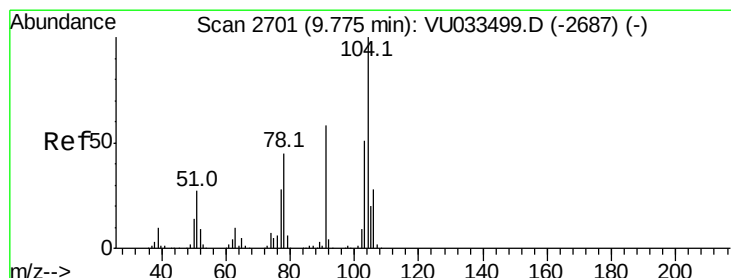
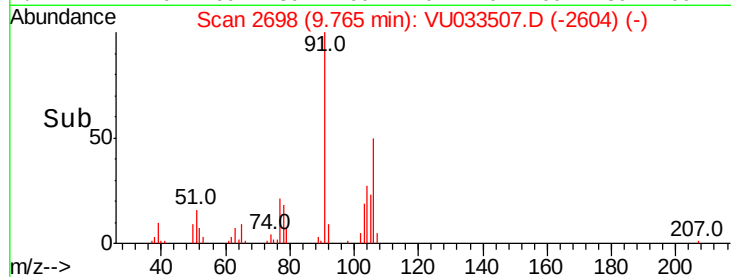
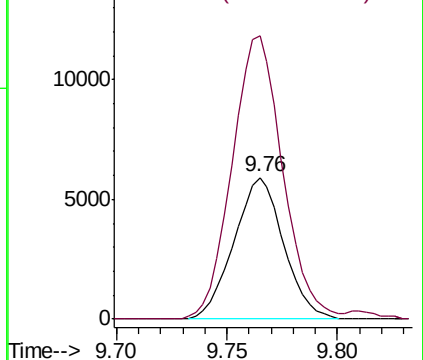
106 100

91 200.2 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.105 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033507.D

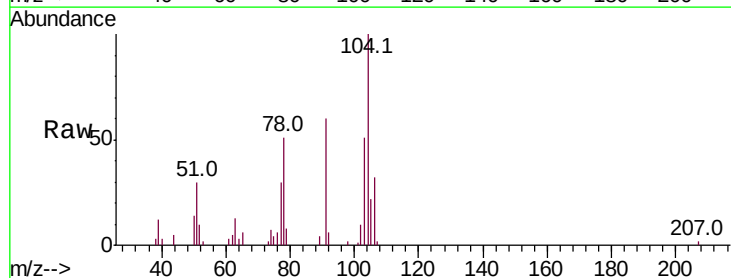
Acq: 30 Jul 2019 21:06

Tgt Ion:104 Resp: 13976

Ion Ratio Lower Upper

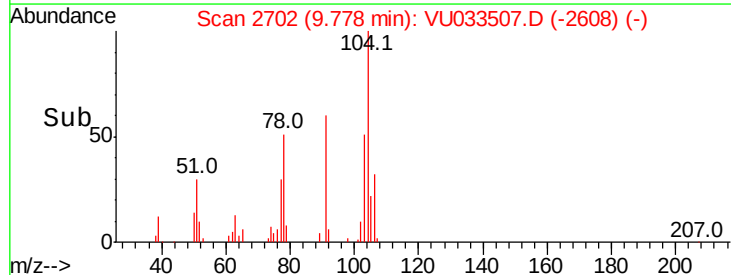
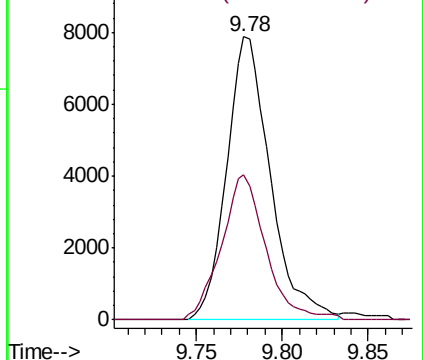
104 100

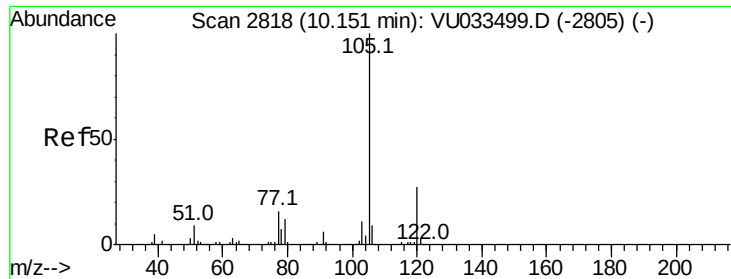
78 51.4 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.297 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

MDL07

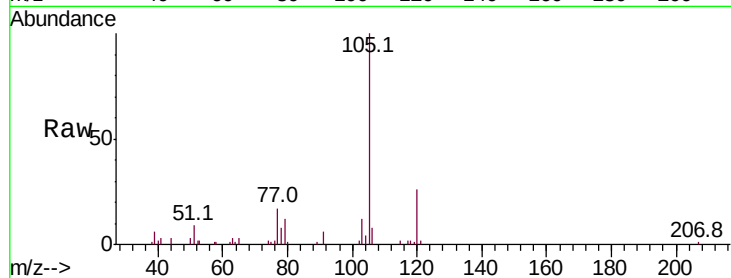
Tot Ion:105 Resp: 23460

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.0

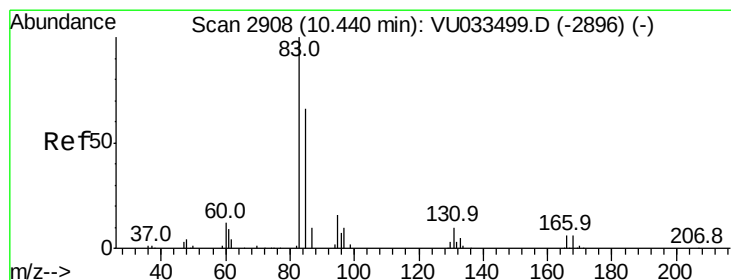
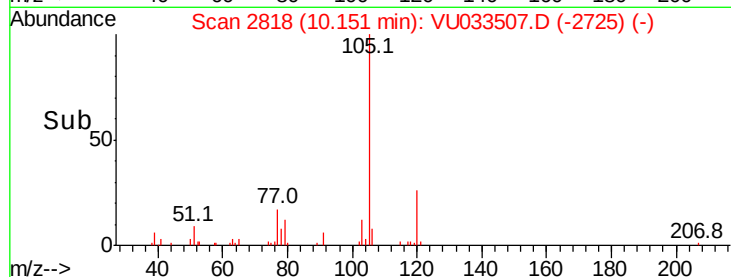
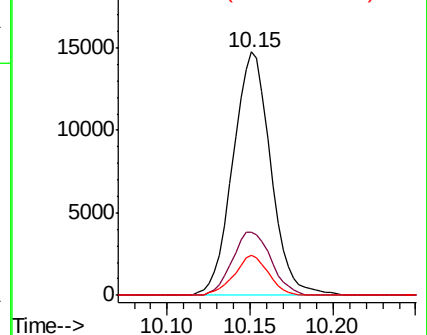
77 14.9 12.5 18.7



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: 2.872 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

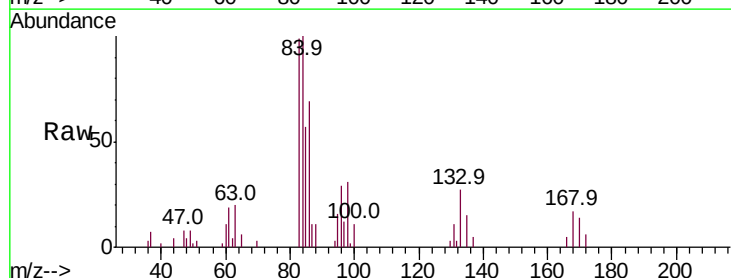
Tgt Ion: 83 Resp: 11933

Ion Ratio Lower Upper

83 100

85 57.8 45.4 84.4

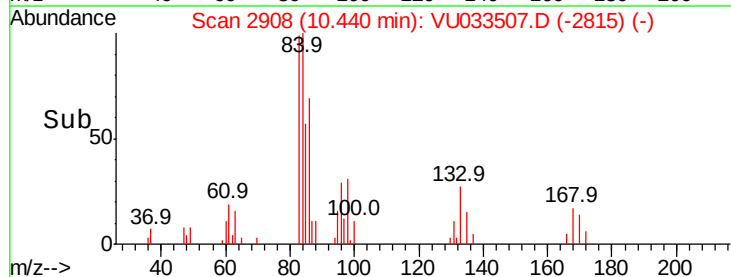
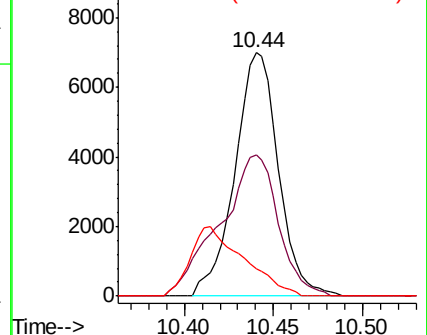
131 11.4 7.9 11.9

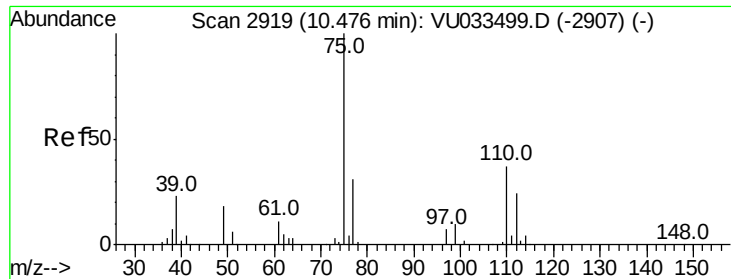


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.677 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

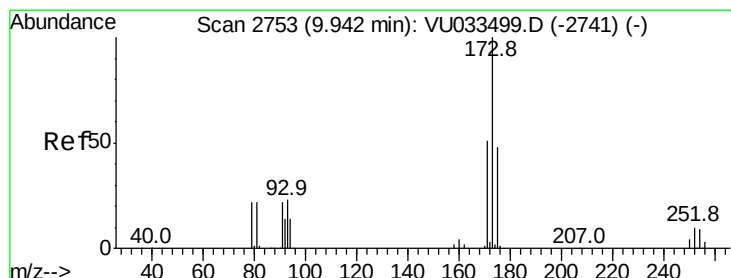
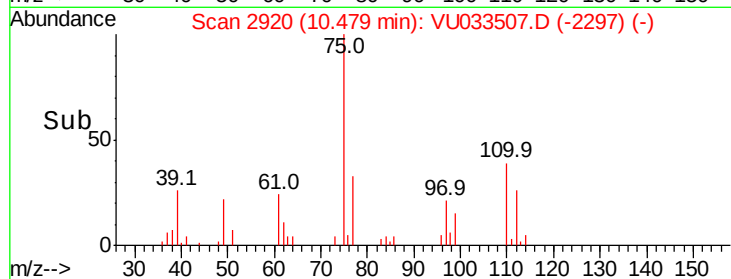
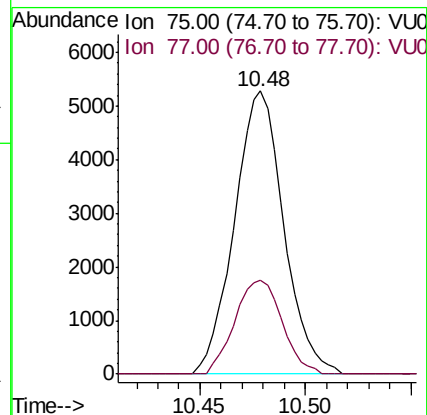
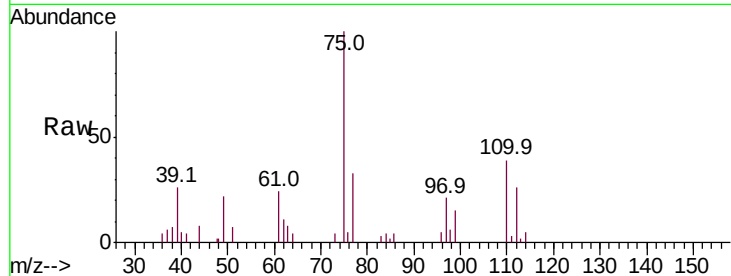
MDL07

Tot Ion: 75 Resp: 8575

Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.6



#61

Bromoform

Concen: 2.614 ug/L

RT: 9.94 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

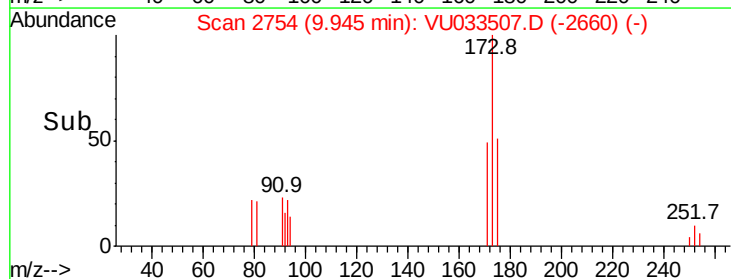
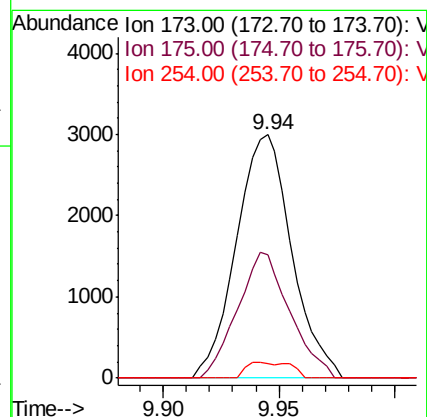
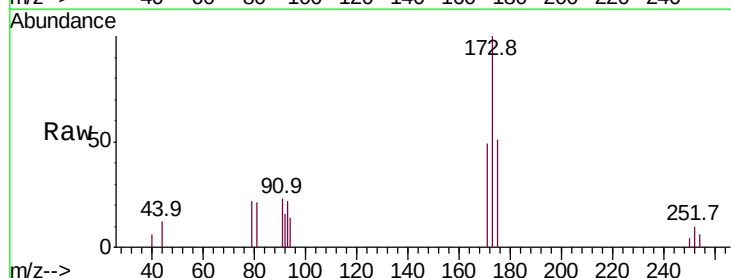
Tgt Ion: 173 Resp: 4976

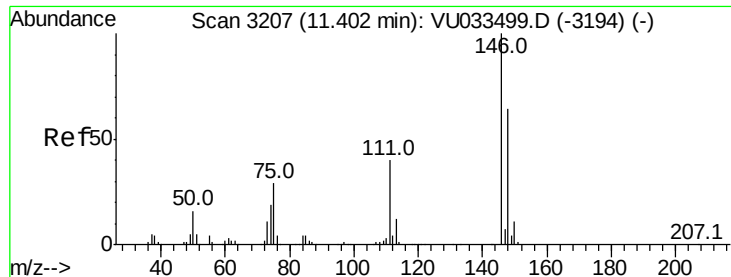
Ion Ratio Lower Upper

173 100

175 48.9 38.7 58.1

254 3.3 7.5 11.3#





#62

1,3-Dichlorobenzene

Concen: 2.641 ug/L

RT: 11.40 min Scan# 3208

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

MDL07

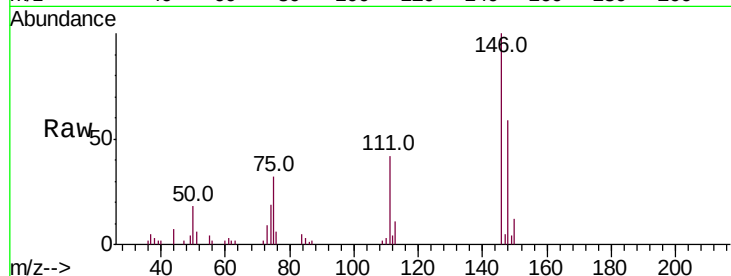
Tot Ion:146 Resp: 12781

Ion Ratio Lower Upper

146 100

111 41.6 28.1 52.1

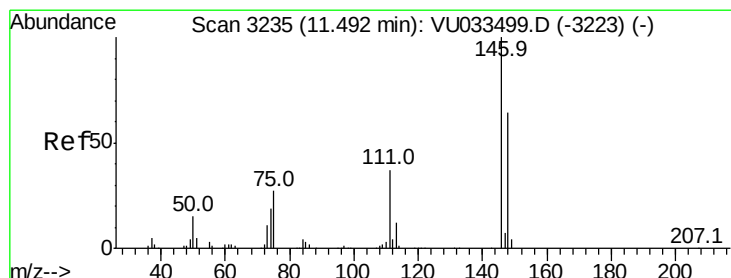
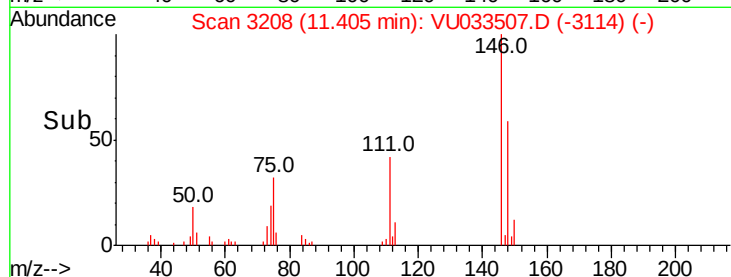
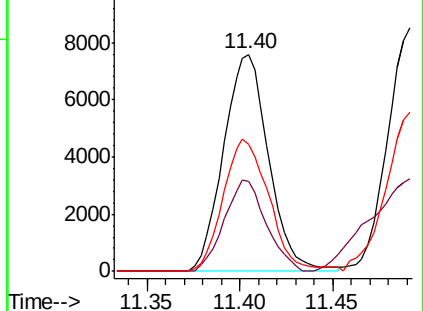
148 58.9 45.0 83.6



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: 2.686 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

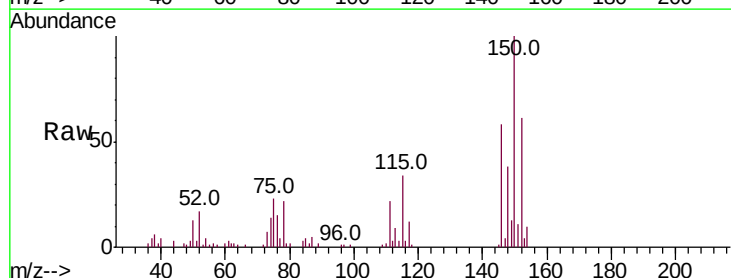
Tgt Ion:146 Resp: 13509

Ion Ratio Lower Upper

146 100

111 38.1 27.2 50.4

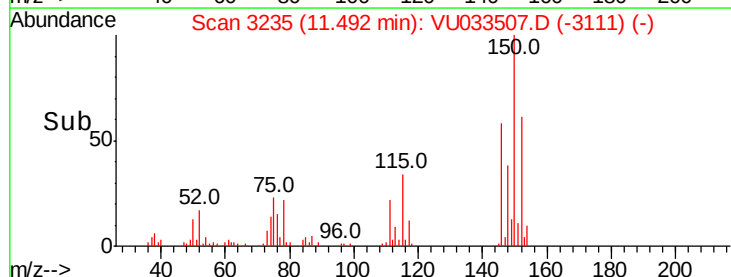
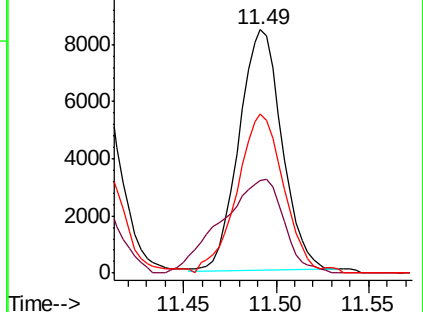
148 65.2 44.5 82.7

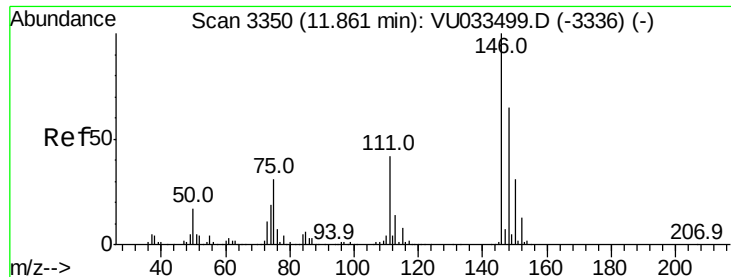


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

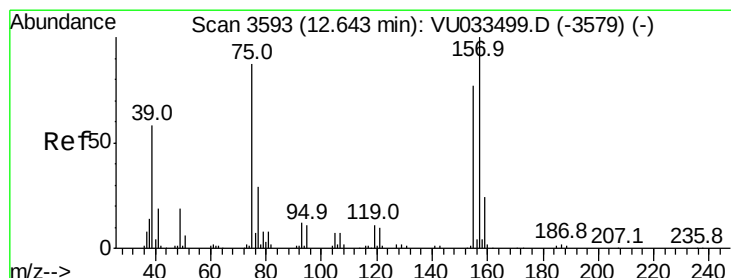
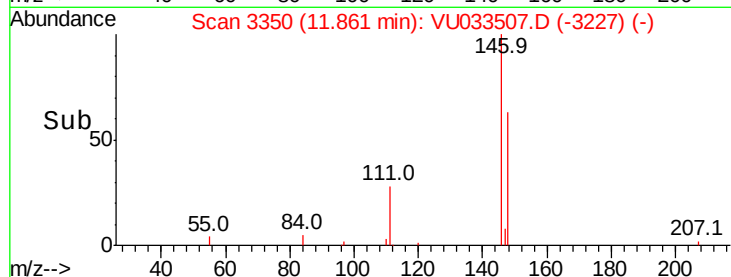
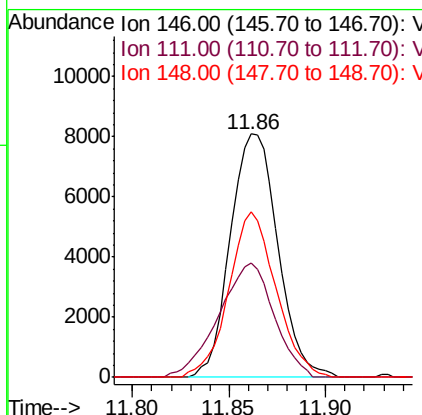
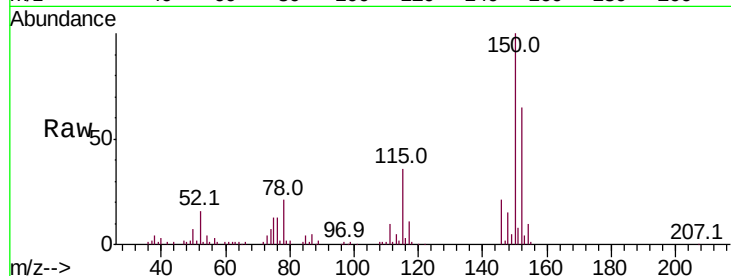




#65
 1,2-Dichlorobenzene
 Concen: 2.828 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

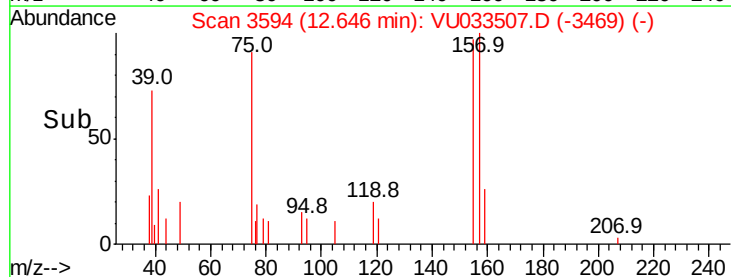
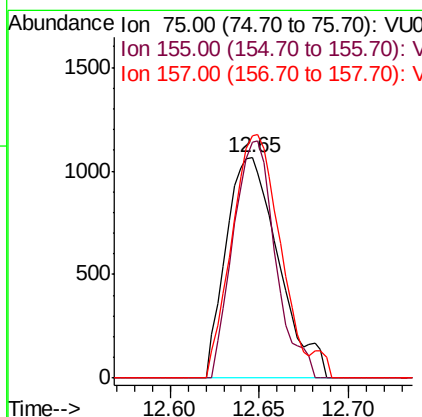
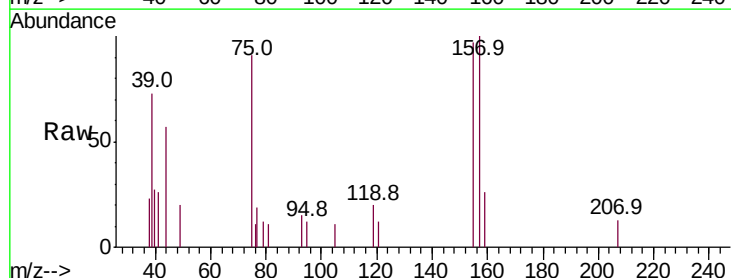
Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

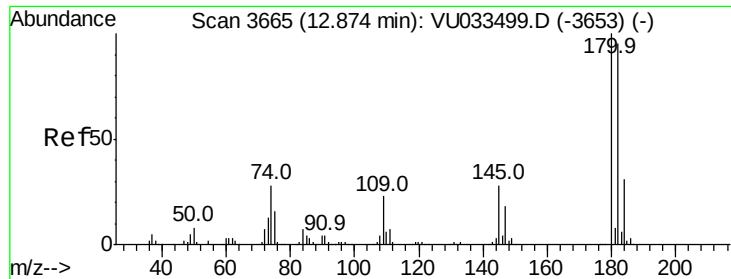
Tot Ion:146 Resp: 13838
 Ion Ratio Lower Upper
 146 100
 111 46.9 31.7 47.5
 148 68.1 50.3 75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.418 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. 0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

Tgt Ion: 75 Resp: 2186
 Ion Ratio Lower Upper
 75 100
 155 106.8 69.4 104.0#
 157 109.9 91.8 137.8

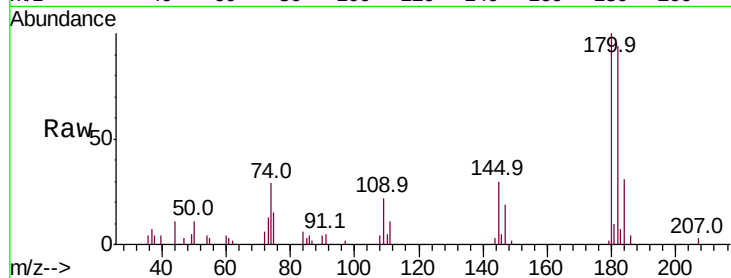




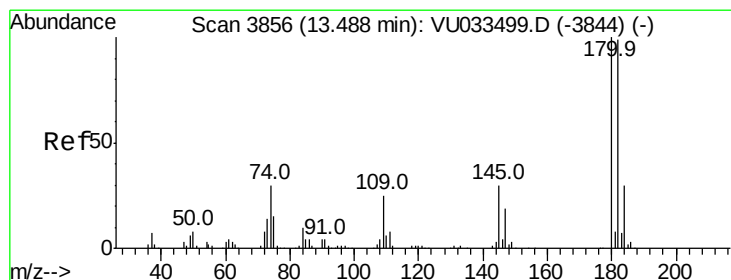
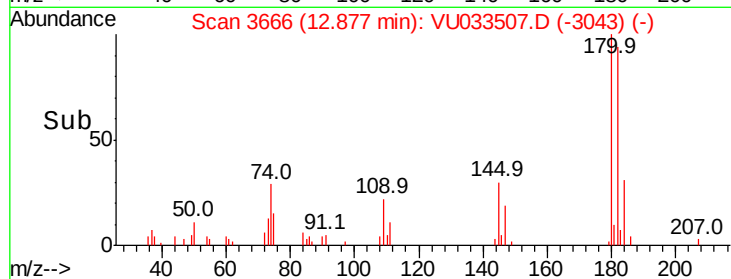
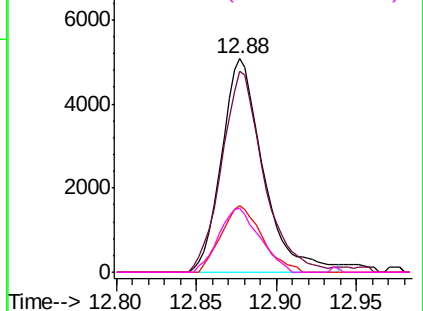
#67
 1,3,5-Trichlorobenzene
 Concen: 2.309 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:180 Resp: 9017
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.6 113.4
 184 30.5 24.2 36.2
 145 29.4 22.7 34.1

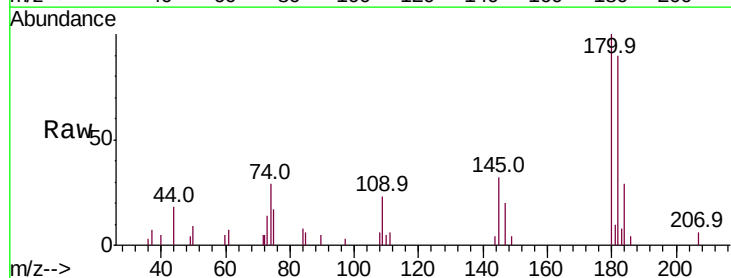


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

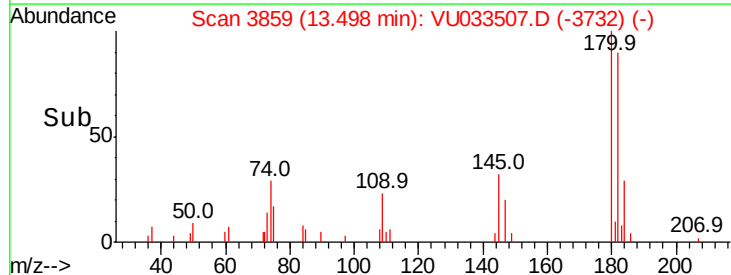
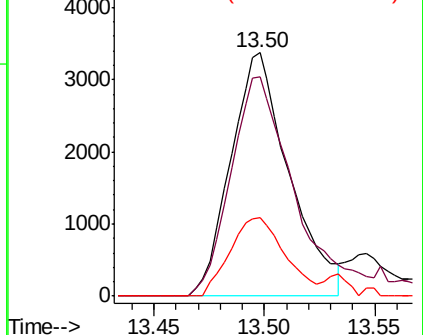


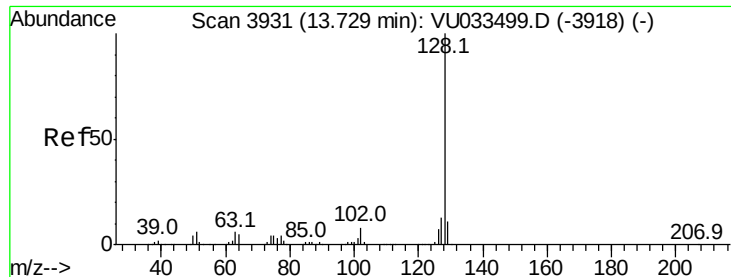
#68
 1,2,4-trichlorobenzene
 Concen: 1.854 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033507.D
 Acq: 30 Jul 2019 21:06

Tgt Ion:180 Resp: 6187
 Ion Ratio Lower Upper
 180 100
 182 98.4 75.8 113.8
 145 30.4 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: 1.803 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

Instrument :

MSVOA_U

ClientSampleId :

MDL07

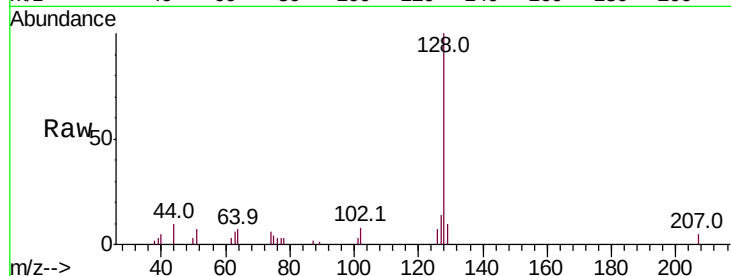
Tot Ion:128 Resp: 17261

Ion Ratio Lower Upper

128 100

127 10.8 10.8 16.2

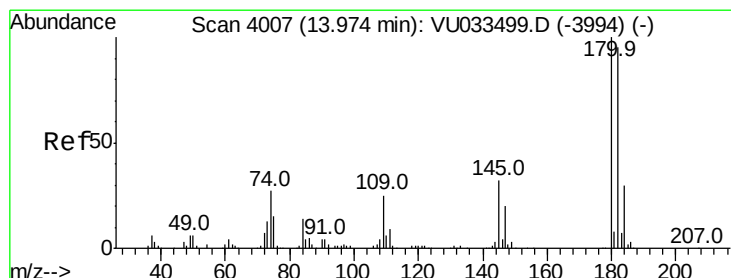
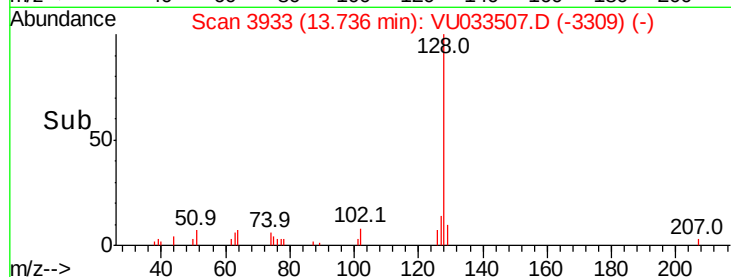
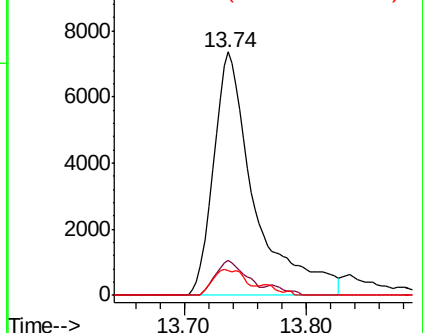
129 8.4 8.7 13.1#



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: 2.126 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.01 min

Lab File: VU033507.D

Acq: 30 Jul 2019 21:06

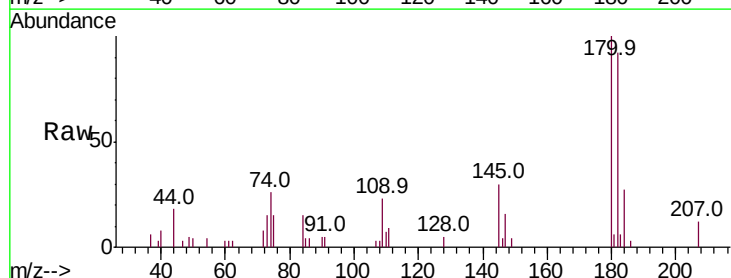
Tgt Ion:180 Resp: 7461

Ion Ratio Lower Upper

180 100

182 95.6 75.5 113.3

145 29.4 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

