

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\
 Data File : VU033505.D
 Acq On : 30 Jul 2019 20:20
 Operator : JC/SP
 Sample : MDL05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Quant Time: Jul 31 08:10:24 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	321035	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	317852	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	154617	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	103692	44.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.84%
7) Chloroethane-d5	1.67	69	89484	44.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.36%
11) 1,1-Dichloroethene-d2	2.26	63	142913	33.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.48%
21) 2-Butanone-d5	4.15	46	148607	96.13	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.13%
24) Chloroform-d	4.62	84	176286	45.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.12%
26) 1,2-Dichloroethane-d4	5.29	65	116670	47.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.18%
32) Benzene-d6	5.32	84	369450	46.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.78%
36) 1,2-Dichloropropane-d6	6.31	67	117293	47.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.98%
41) Toluene-d8	7.55	98	331211	44.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.72%
43) trans-1,3-Dichloropropene-	7.83	79	54520	44.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.00%
47) 2-Hexanone-d5	8.29	63	110360	94.11	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.11%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	172113	45.19	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.38%
64) 1,2-Dichlorobenzene-d4	11.85	152	133351	47.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6901	2.279 ug/L	95
3) Chloromethane	1.32	50	7593	2.490 ug/L	96
5) Vinyl chloride	1.39	62	8325	2.547 ug/L #	72
6) Bromomethane	1.62	94	5076	1.760 ug/L	91
8) Chloroethane	1.69	64	4789	2.411 ug/L	89
9) Trichlorofluoromethane	1.87	101	10221	2.390 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6083	2.806 ug/L	88
12) 1,1-Dichloroethene	2.27	96	5991	2.882 ug/L #	1
13) Acetone	2.31	43	6791	4.294 ug/L	94
14) Carbon disulfide	2.46	76	15758	2.417 ug/L	100
15) Methyl Acetate	2.60	43	6186	2.457 ug/L	98
16) Methylene chloride	2.68	84	6274	2.642 ug/L	90
17) trans-1,2-Dichloroethene	2.96	96	5311	2.438 ug/L	95
18) Methyl tert-butyl Ether	2.98	73	15329	2.308 ug/L	97
19) 1,1-Dichloroethane	3.42	63	10045	2.457 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	5801	2.373 ug/L	92
22) 2-Butanone	4.25	43	7635	4.043 ug/L #	49

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

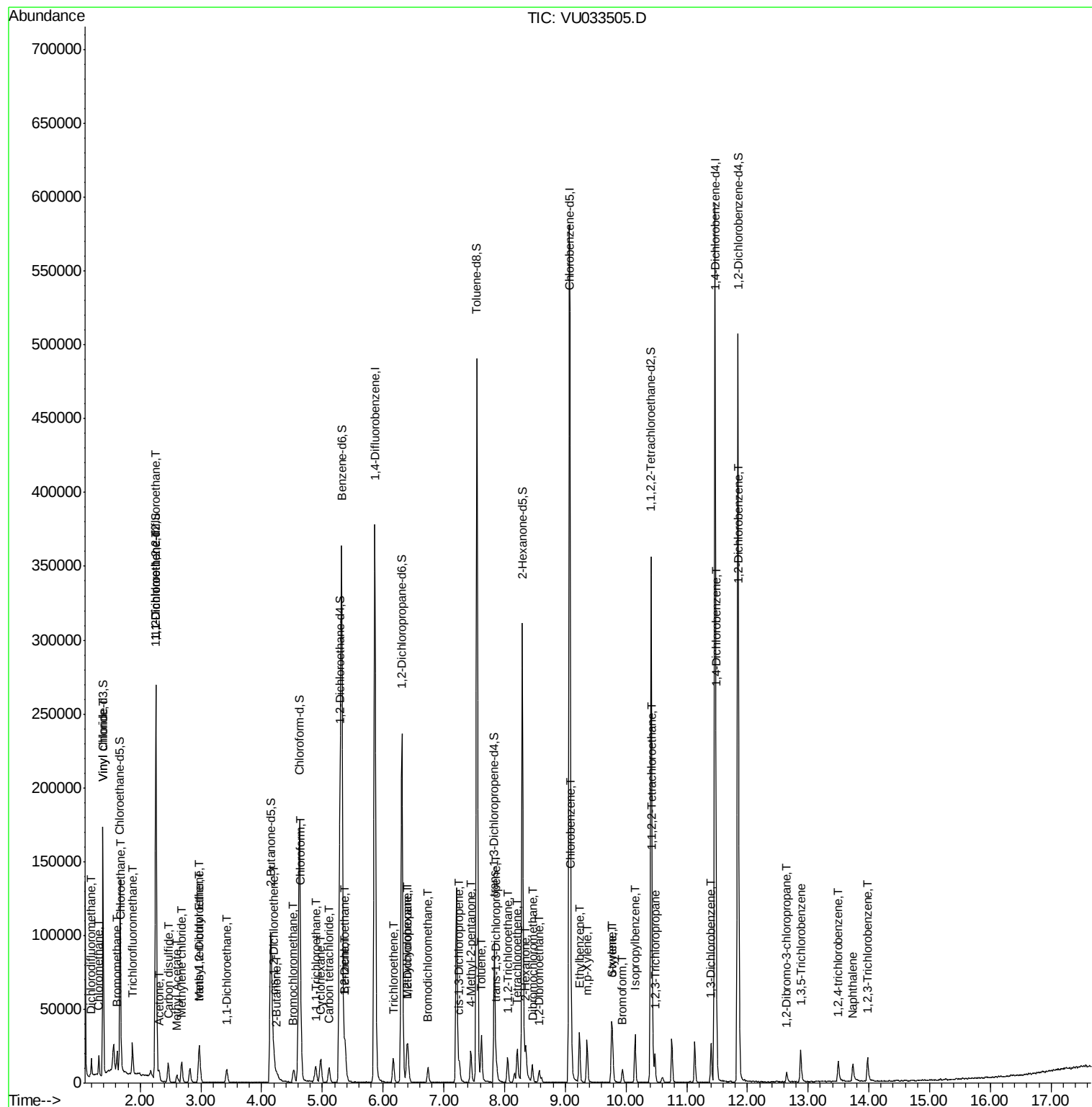
23) Bromochloromethane	4.52	128	2835	2.222	ug/L #	85
25) Chloroform	4.65	83	14974	3.480	ug/L	98
27) 1,2-Dichloroethane	5.38	62	8223	2.482	ug/L	98
29) Cyclohexane	4.97	56	7793	2.248	ug/L	96
30) 1,1,1-Trichloroethane	4.89	97	8322	2.275	ug/L	94
31) Carbon tetrachloride	5.11	117	7373	2.315	ug/L	95
33) Benzene	5.37	78	20652	2.252	ug/L	100
34) Trichloroethene	6.17	95	5868	2.426	ug/L	98
35) Methylcyclohexane	6.39	83	7979	2.114	ug/L	96
37) 1,2-Dichloropropane	6.41	63	5843	2.381	ug/L #	96
38) Bromodichloromethane	6.74	83	7531	2.374	ug/L	94
39) cis-1,3-Dichloropropene	7.25	75	8637	2.255	ug/L	97
40) 4-Methyl-2-pentanone	7.45	43	14332	4.229	ug/L	98
42) Toluene	7.62	91	23364	2.370	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	7973	2.303	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	5641	2.421	ug/L	95
46) Tetrachloroethene	8.21	164	4582	2.320	ug/L	97
48) 2-Hexanone	8.35	43	13296	4.854	ug/L	92
49) Dibromochloromethane	8.46	129	6030	2.275	ug/L	96
50) 1,2-Dibromoethane	8.57	107	6192	2.399	ug/L #	98
51) Chlorobenzene	9.10	112	15543	2.408	ug/L	99
52) Ethylbenzene	9.23	91	23522	2.215	ug/L	98
53) m,p-Xylene	9.36	106	8878	2.178	ug/L	90
54) o-xylene	9.76	106	7994	2.022	ug/L	100
55) Styrene	9.78	104	12530	1.866	ug/L	94
56) Isopropylbenzene	10.15	105	20281	1.963	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	10942	2.604	ug/L #	96
59) 1,2,3-Trichloropropane	10.48	75	8111	2.504	ug/L	99
61) Bromoform	9.94	173	4419	2.366	ug/L #	96
62) 1,3-Dichlorobenzene	11.40	146	11262	2.372	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	12808	2.596	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	12887	2.684	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	1982	2.234	ug/L #	84
67) 1,3,5-Trichlorobenzene	12.88	180	8410	2.195	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	6231	1.904	ug/L	96
69) Naphthalene	13.74	128	13257	1.412	ug/L #	95
70) 1,2,3-Trichlorobenzene	13.98	180	5843	1.697	ug/L	97

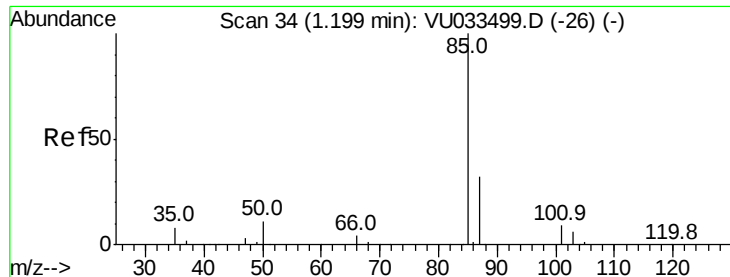
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MDL05

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.279 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

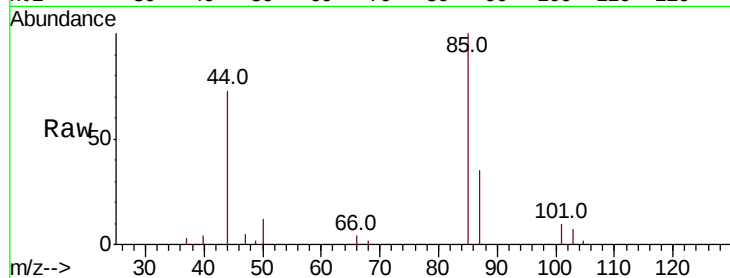
Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 85 Resp: 6901

Ion Ratio Lower Upper

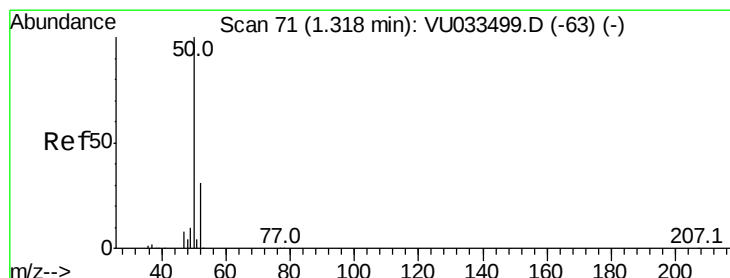
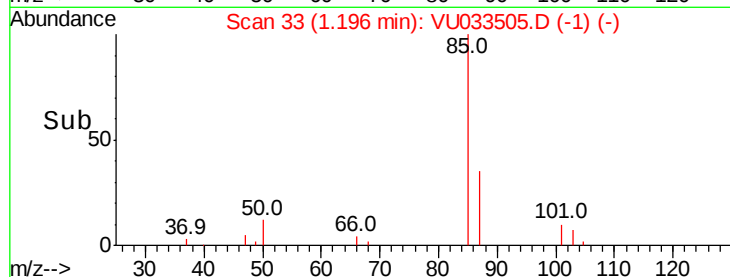
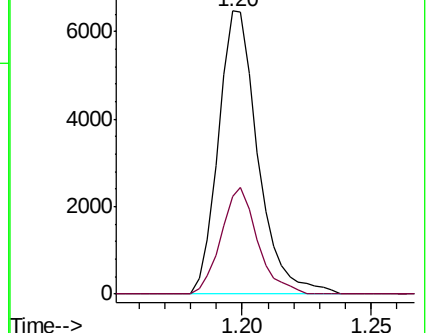
85 100

87 34.9 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: 2.490 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033505.D

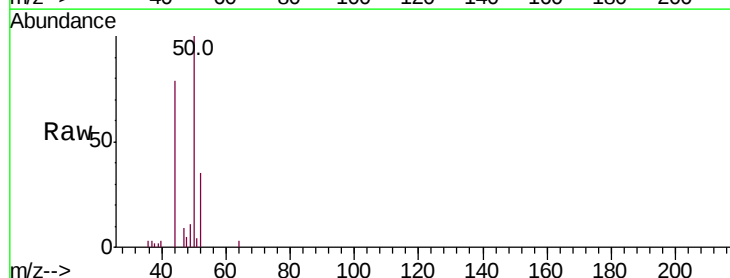
Acq: 30 Jul 2019 20:20

Tgt Ion: 50 Resp: 7593

Ion Ratio Lower Upper

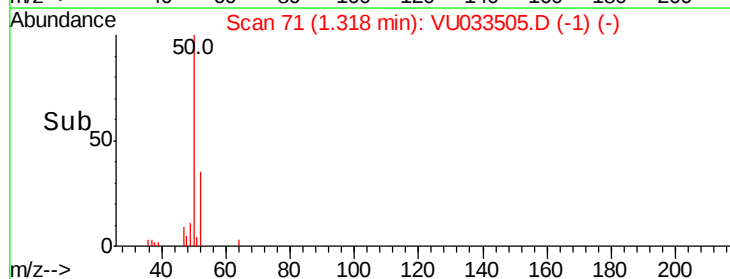
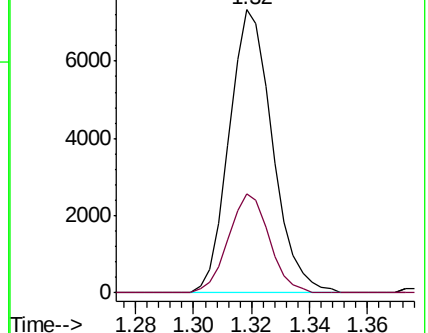
50 100

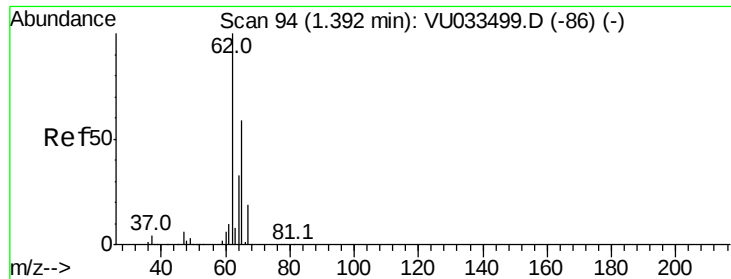
52 35.1 23.1 42.9



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: 2.547 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampled :

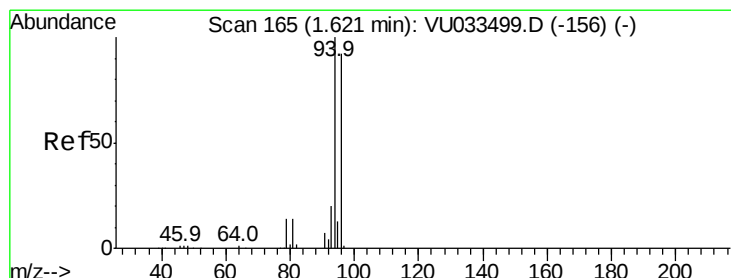
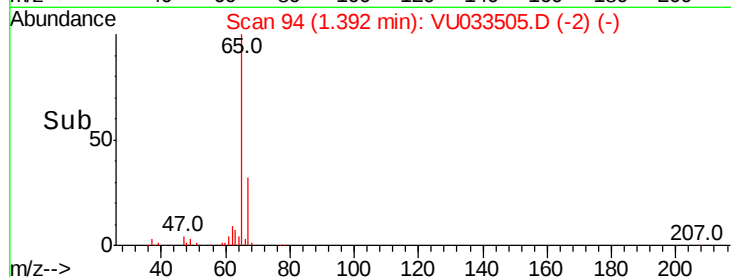
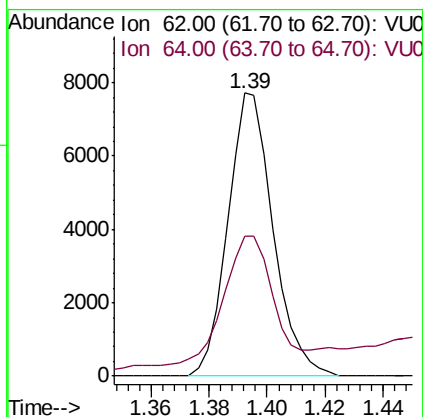
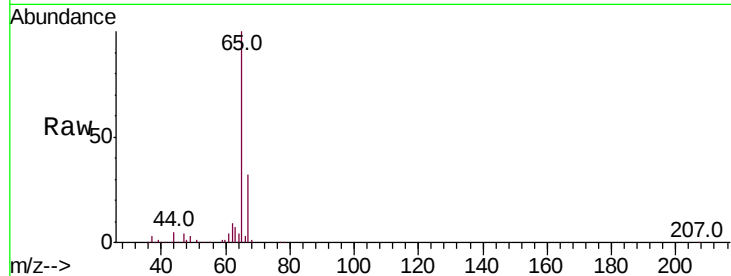
MDL05

Tot Ion: 62 Resp: 8325

Ion Ratio Lower Upper

62 100

64 49.3 23.4 43.4#



#6

Bromomethane

Concen: 1.760 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033505.D

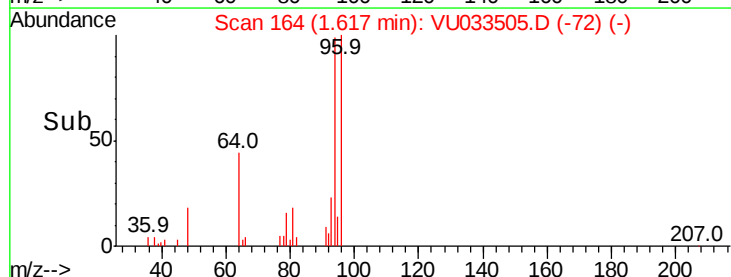
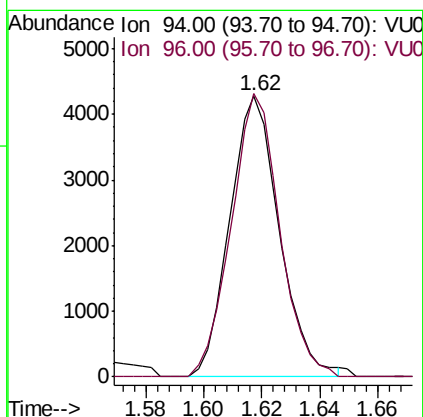
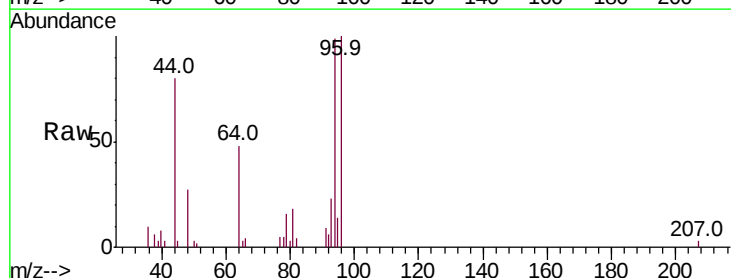
Acq: 30 Jul 2019 20:20

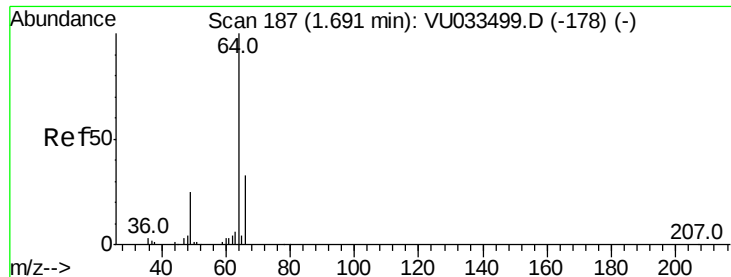
Tgt Ion: 94 Resp: 5076

Ion Ratio Lower Upper

94 100

96 100.7 64.4 119.6

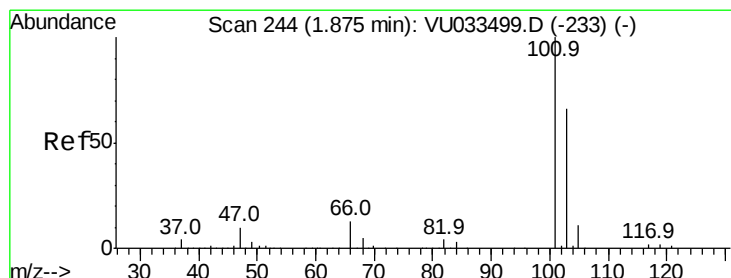
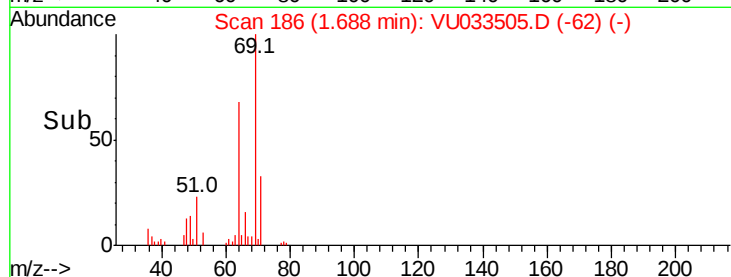
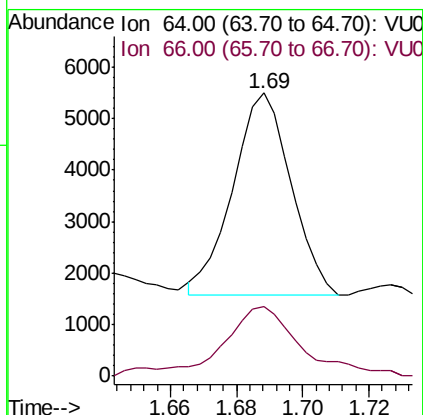
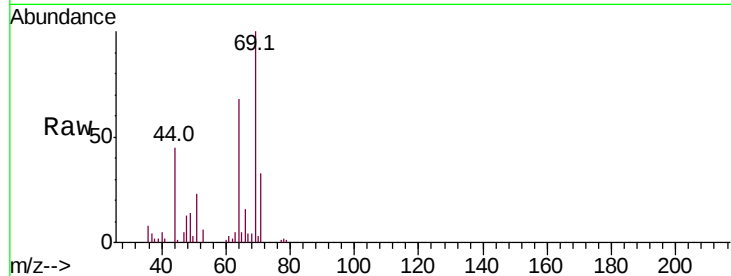




#8
Chloroethane
Concen: 2.411 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

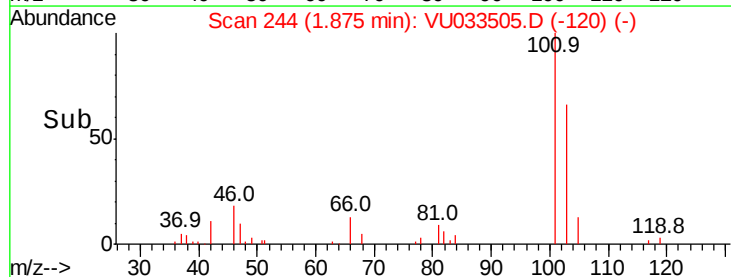
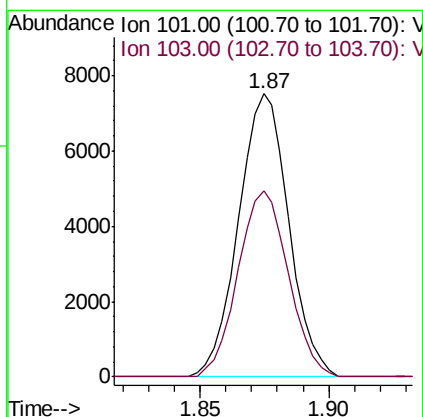
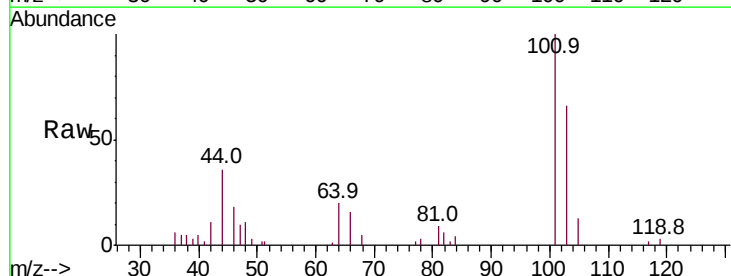
Instrument :
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MDL05

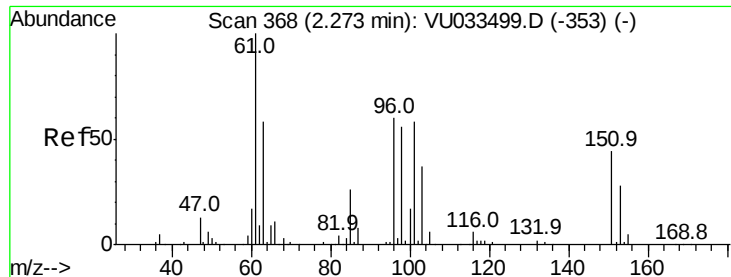
Tot Ion: 64 Resp: 4789
Ion Ratio Lower Upper
64 100
66 24.4 21.1 39.3



#9
Trichlorofluoromethane
Concen: 2.390 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

Tgt Ion: 101 Resp: 10221
Ion Ratio Lower Upper
101 100
103 66.0 51.6 77.4





#10

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

Concen: 2.806 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

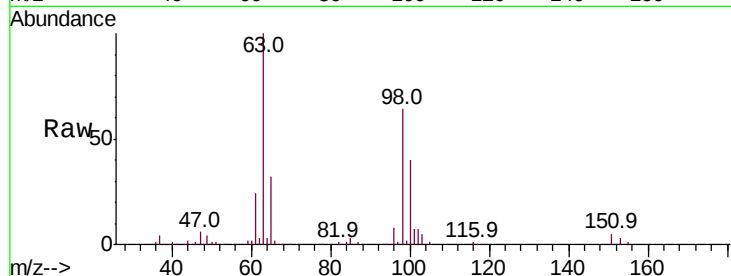
Tot Ion:101 Resp: 6083

Ion Ratio Lower Upper

101 100

85 39.1 35.8 53.8

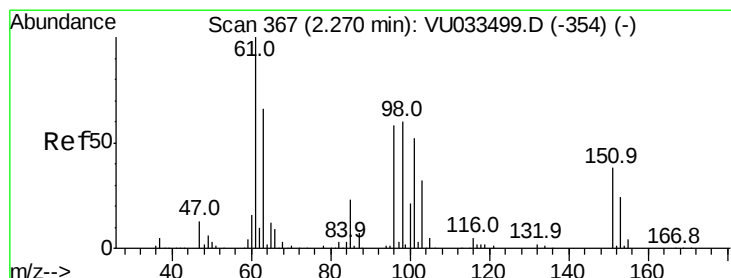
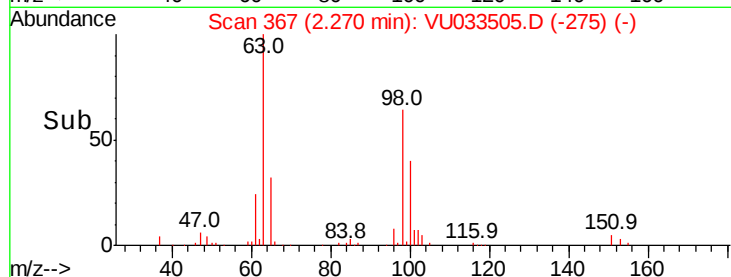
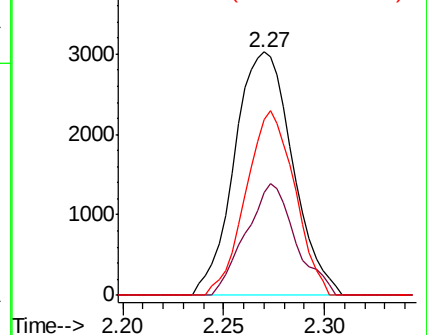
151 63.8 60.1 90.1



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: 2.882 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

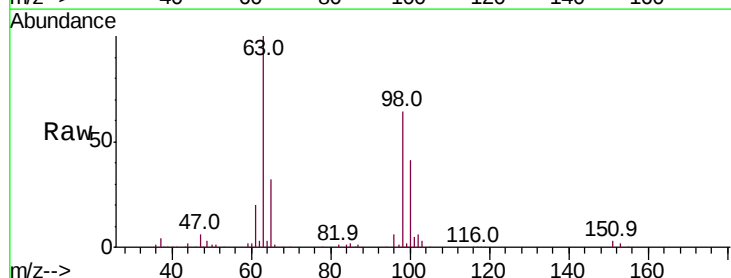
Tgt Ion: 96 Resp: 5991

Ion Ratio Lower Upper

96 100

61 330.6 119.3 221.5#

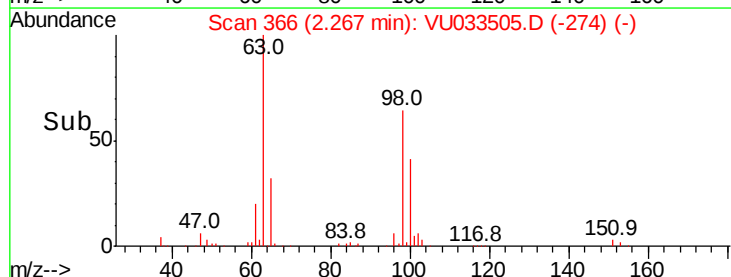
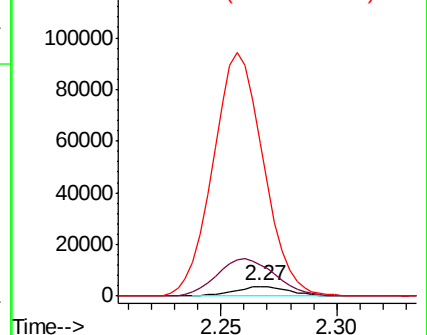
63 1620.6 86.6 160.8#

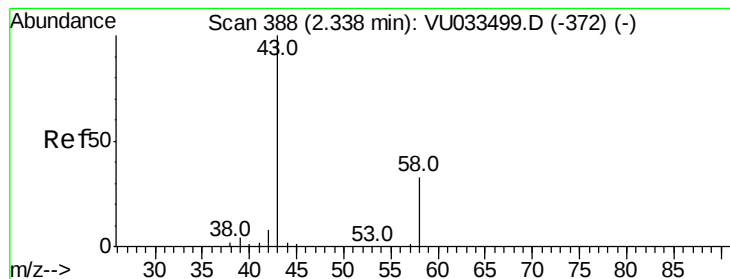


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.294 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

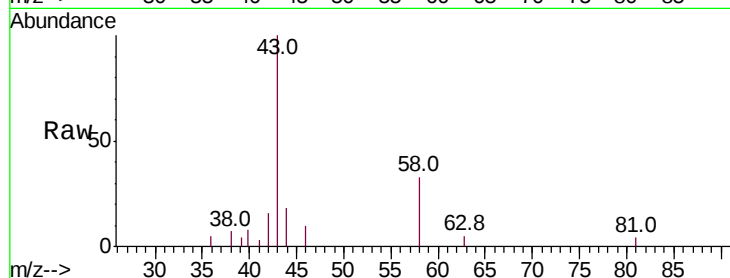
MDL05

Tot Ion: 43 Resp: 6791

Ion Ratio Lower Upper

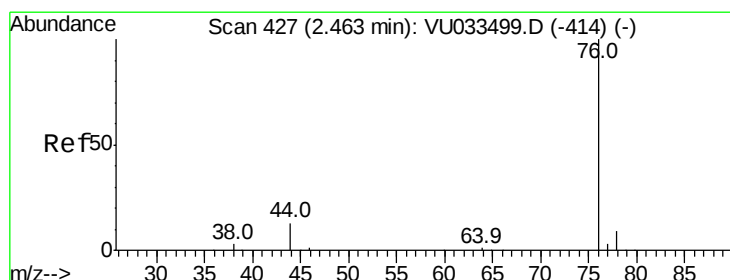
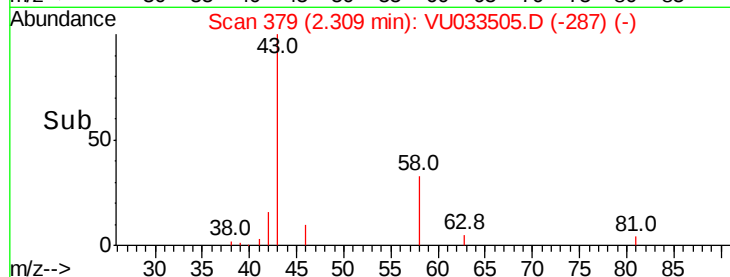
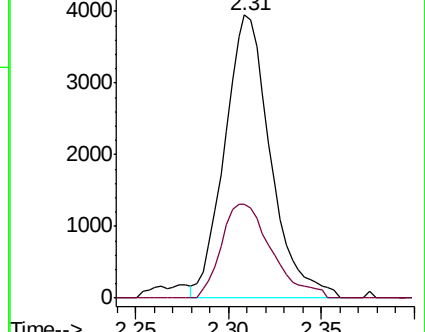
43 100

58 36.4 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU033505.D (-372) (-)

Ion 58.00 (57.70 to 58.70): VU033505.D (-372) (-)



#14

Carbon disulfide

Concen: 2.417 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033505.D

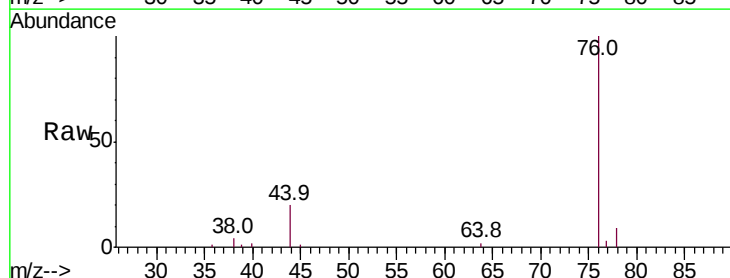
Acq: 30 Jul 2019 20:20

Tgt Ion: 76 Resp: 15758

Ion Ratio Lower Upper

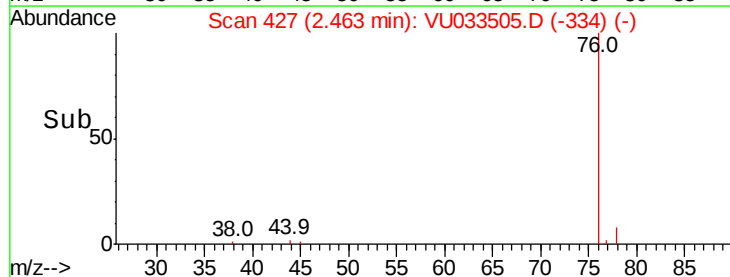
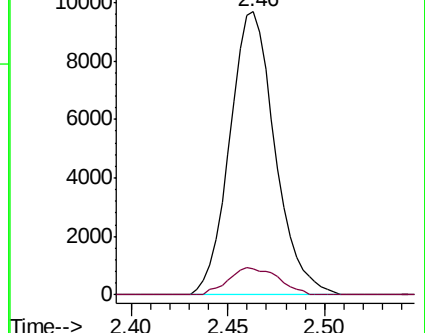
76 100

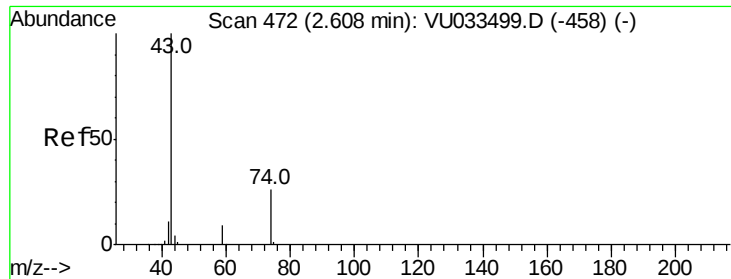
78 9.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033505.D (-334) (-)

Ion 78.00 (77.70 to 78.70): VU033505.D (-334) (-)





#15

Methvl Acetate

Concen: 2.457 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

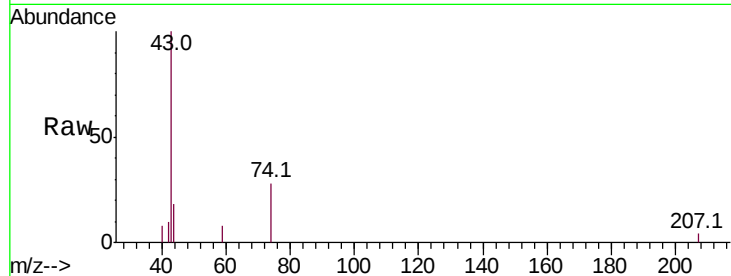
MDL05

Tot Ion: 43 Resp: 6186

Ion Ratio Lower Upper

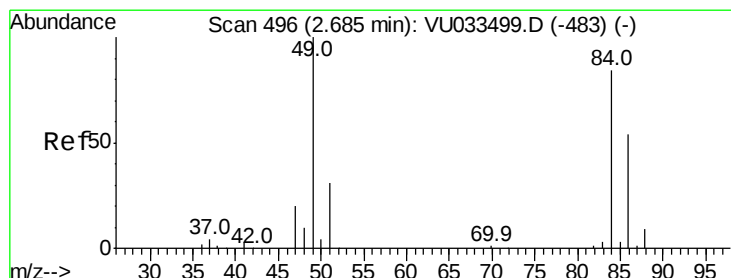
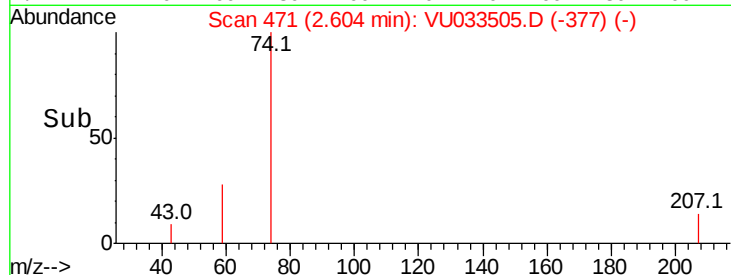
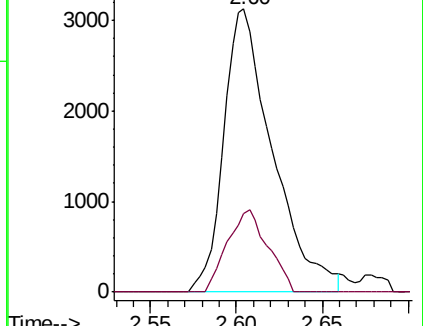
43 100

74 23.9 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VU033499.D (-458) (-)

Ion 74.00 (73.70 to 74.70): VU033499.D (-458) (-)



#16

Methylene chloride

Concen: 2.642 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

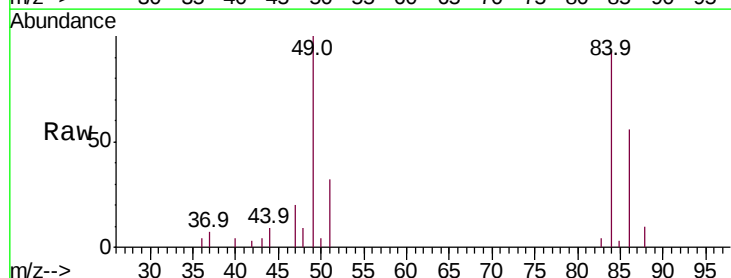
Tgt Ion: 84 Resp: 6274

Ion Ratio Lower Upper

84 100

86 60.3 45.7 84.9

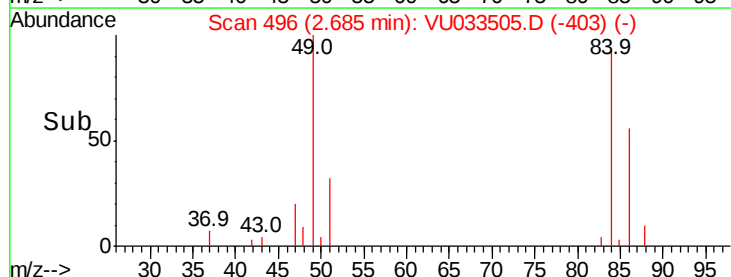
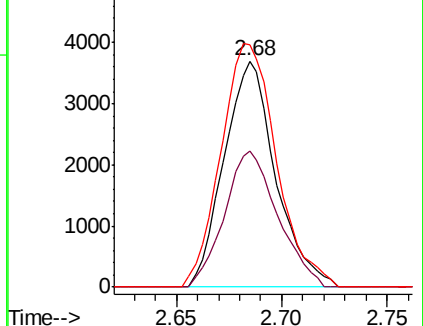
49 107.4 85.0 158.0

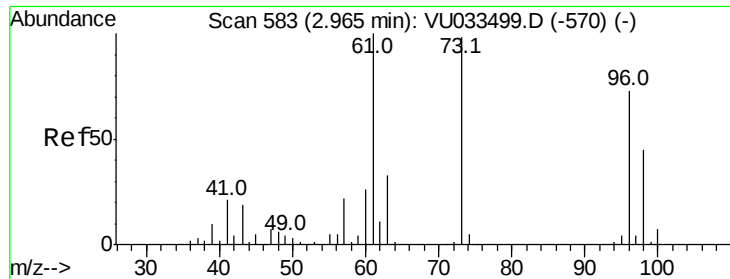


Abundance Ion 84.00 (83.70 to 84.70): VU033499.D (-483) (-)

Ion 86.00 (85.70 to 86.70): VU033499.D (-483) (-)

Ion 49.00 (48.70 to 49.70): VU033499.D (-483) (-)

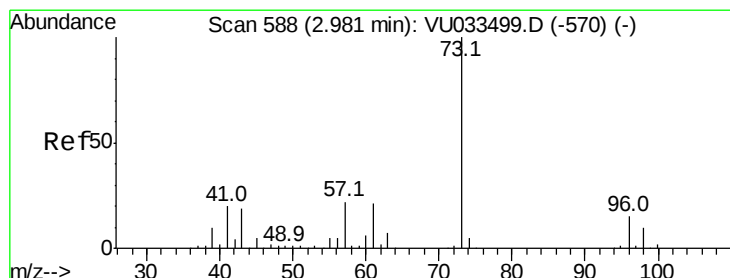
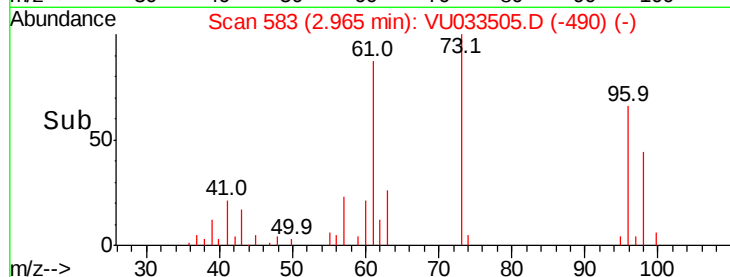
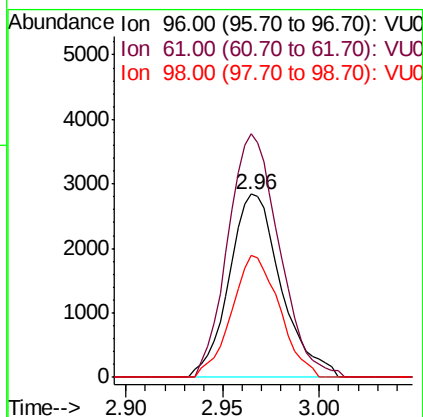
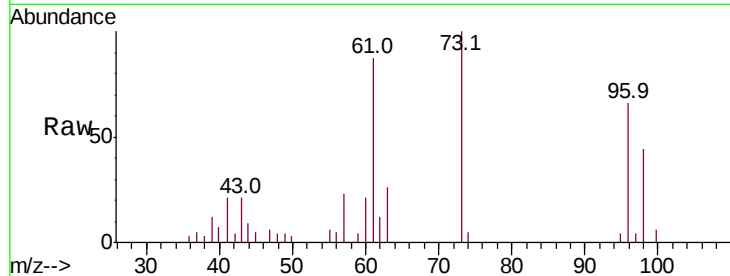




#17
trans-1,2-Dichloroethene
Concen: 2.438 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

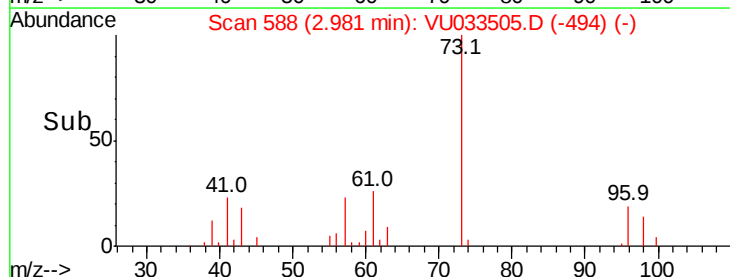
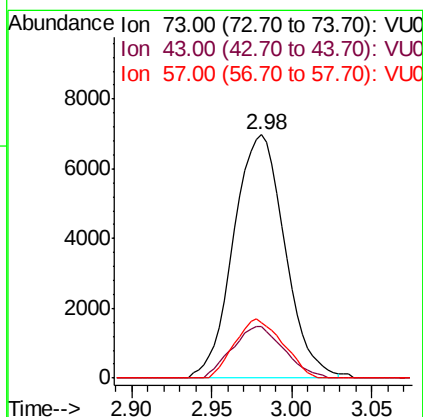
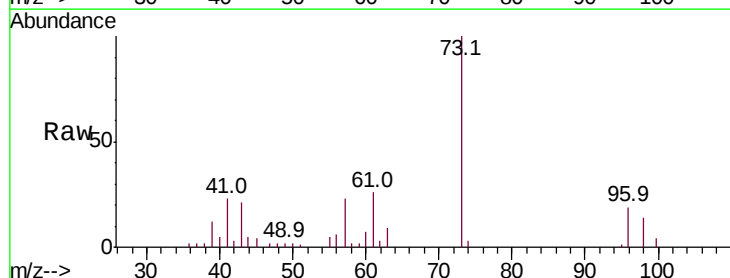
Instrument :
MSVOA_U
ClientSampleId :
MDL05

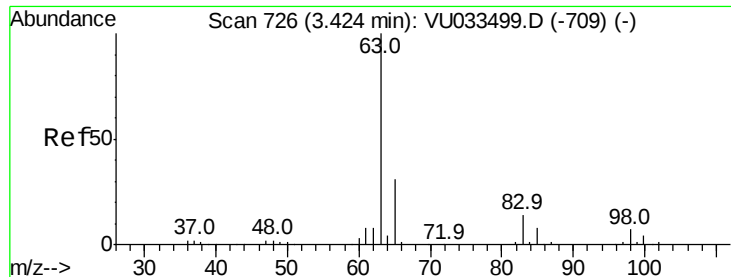
Tot Ion: 96 Resp: 5311
Ion Ratio Lower Upper
96 100
61 133.1 98.3 182.5
98 66.8 44.3 82.3



#18
Methyl tert-butyl Ether
Concen: 2.308 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

Tgt Ion: 73 Resp: 15329
Ion Ratio Lower Upper
73 100
43 21.5 15.4 23.2
57 22.7 17.4 26.2





#19

1,1-Dichloroethane

Concen: 2.457 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

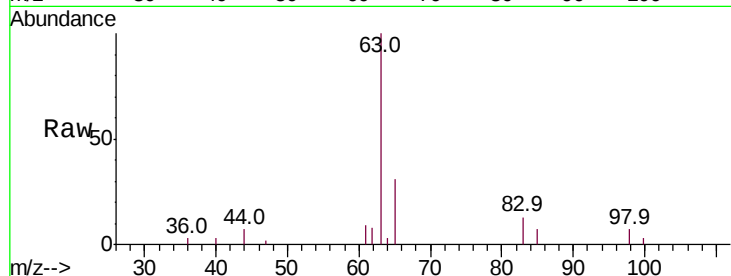
Tot Ion: 63 Resp: 10045

Ion Ratio Lower Upper

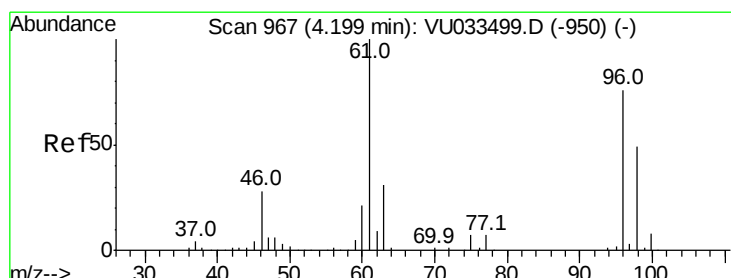
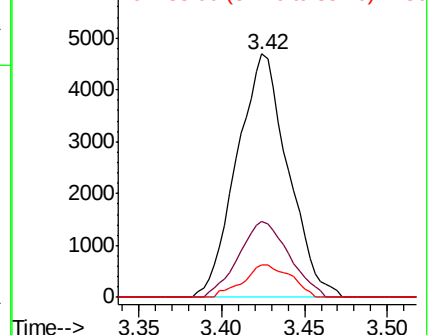
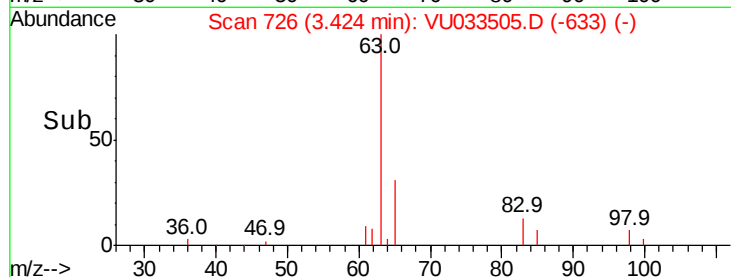
63 100

65 31.2 22.0 40.8

83 13.3 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VU033505.D (-633) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.373 ug/L

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

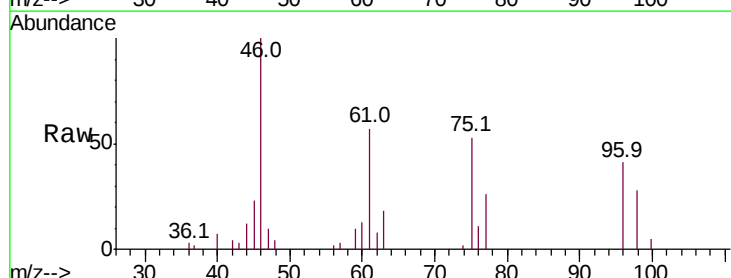
Tgt Ion: 96 Resp: 5801

Ion Ratio Lower Upper

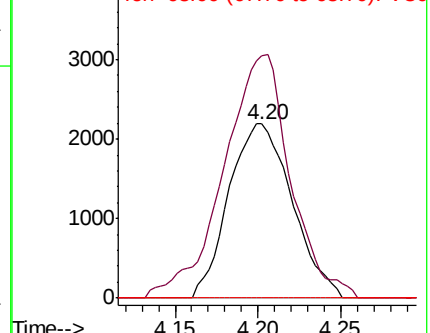
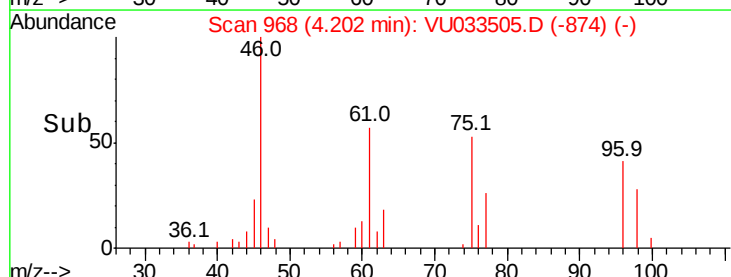
96 100

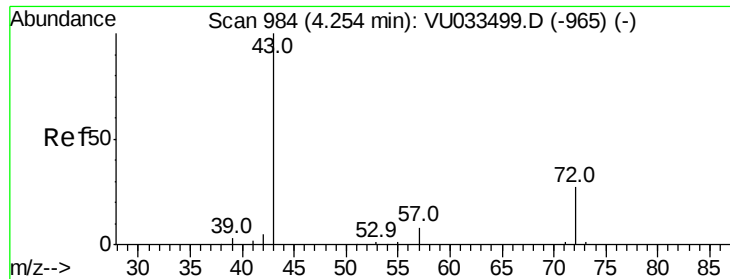
61 139.3 91.3 169.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033505.D (-874) (-)





#22

2-Butanone

Concen: 4.043 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.02 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampled :

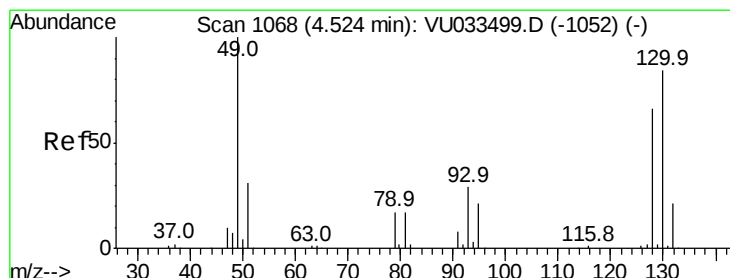
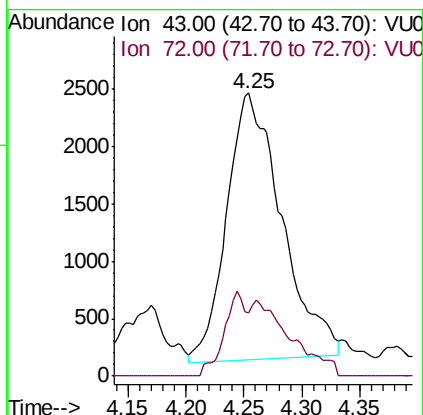
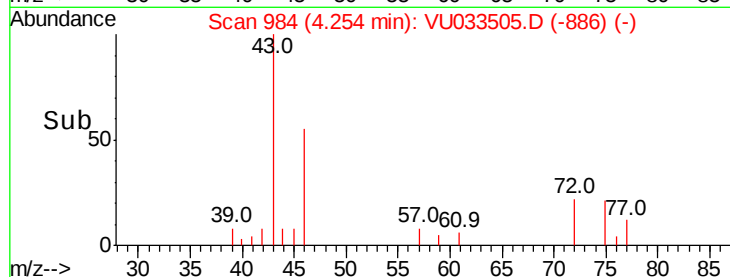
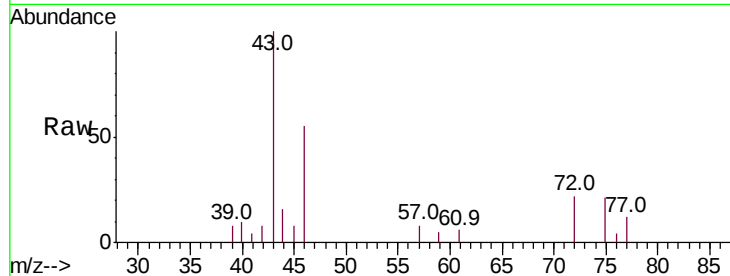
MDL05

Tot Ion: 43 Resp: 7635

Ion Ratio Lower Upper

43 100

72 1.6 14.2 42.6#



#23

Bromochloromethane

Concen: 2.222 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Tgt Ion: 128 Resp: 2835

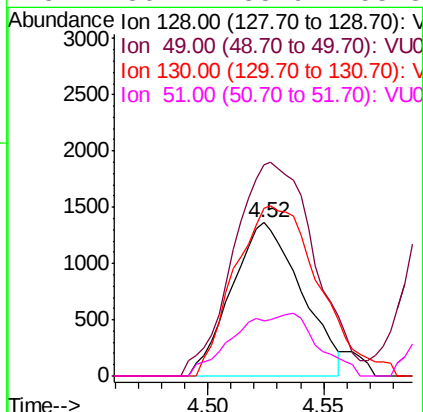
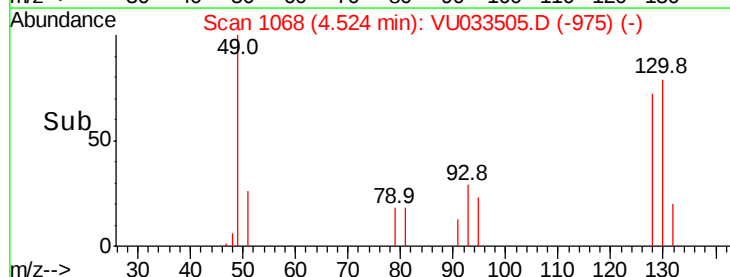
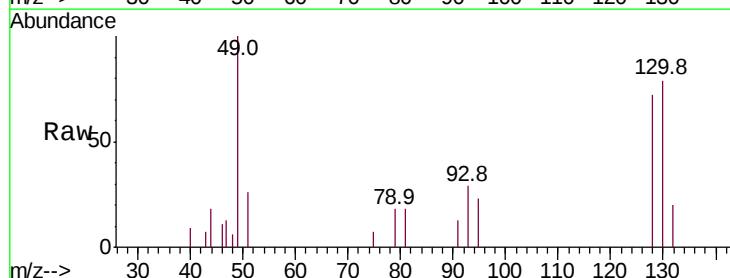
Ion Ratio Lower Upper

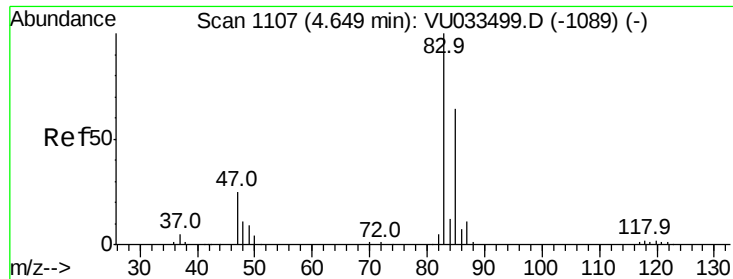
128 100

49 138.2 108.4 201.2

130 109.7 89.7 166.5

51 36.2 38.9 58.3#

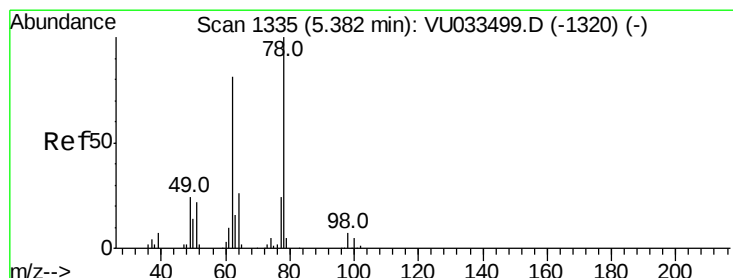
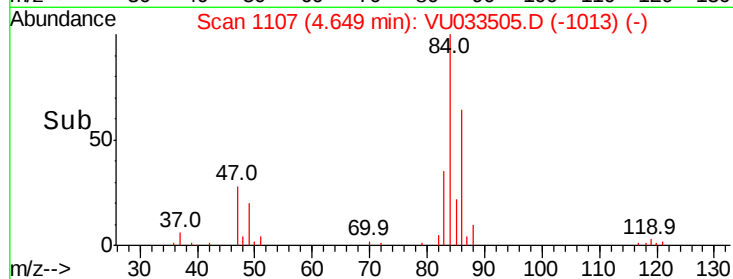
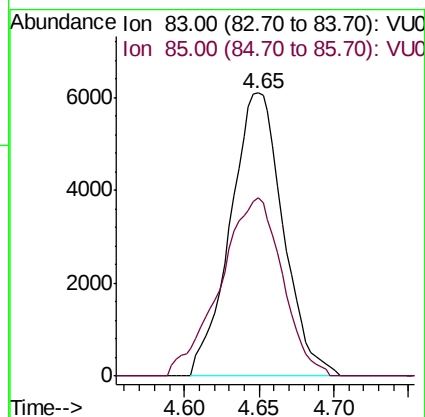
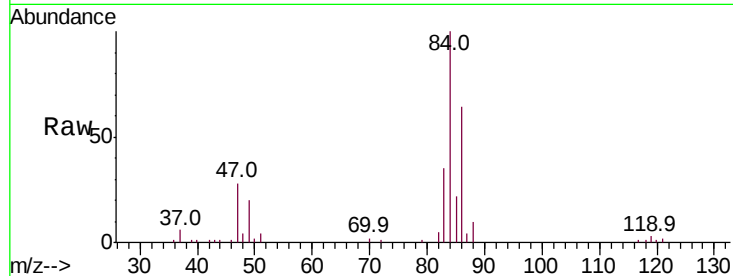




#25
Chloroform
Concen: 3.480 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

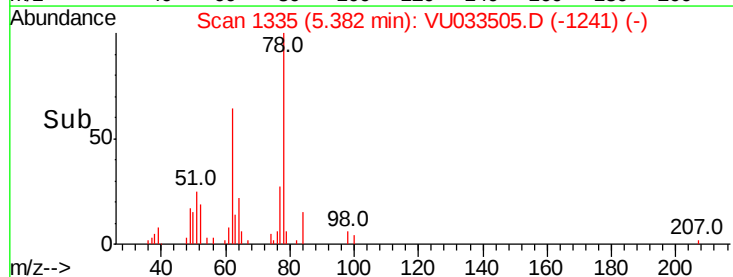
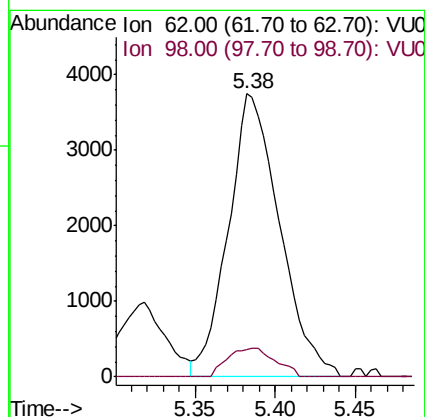
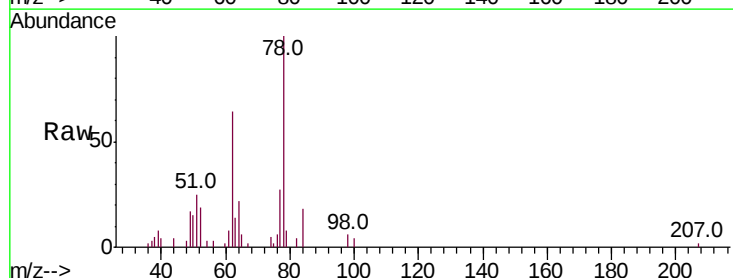
Instrument :
MSVOA_U
ClientSampleId :
MDL05

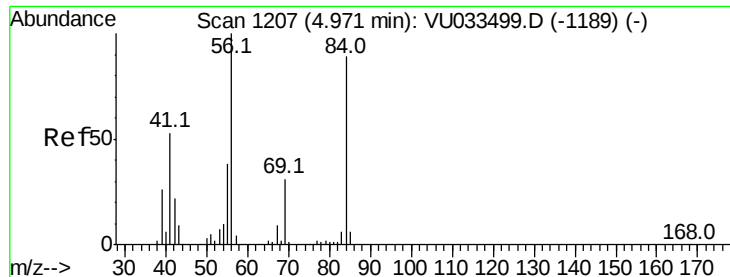
Tot Ion: 83 Resp: 14974
Ion Ratio Lower Upper
83 100
85 63.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.482 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

Tgt Ion: 62 Resp: 8223
Ion Ratio Lower Upper
62 100
98 9.6 7.2 10.8

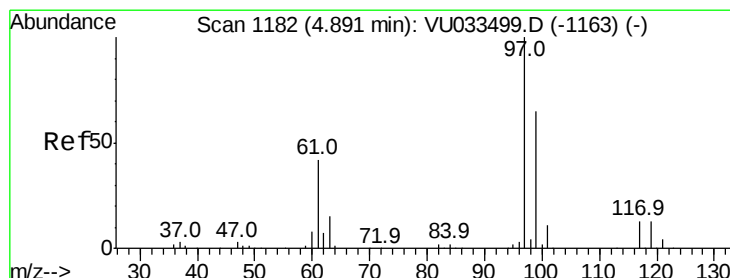
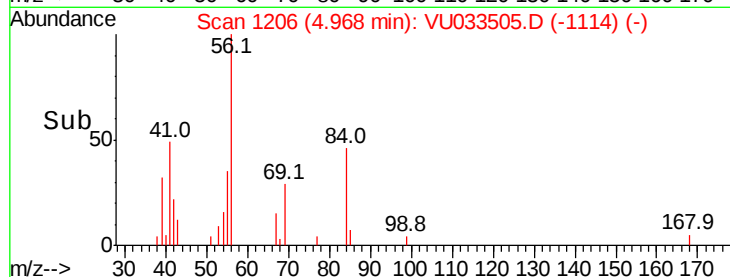
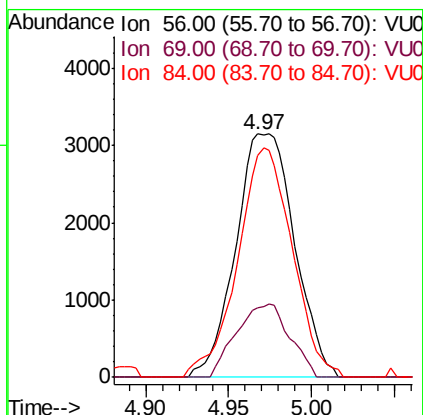
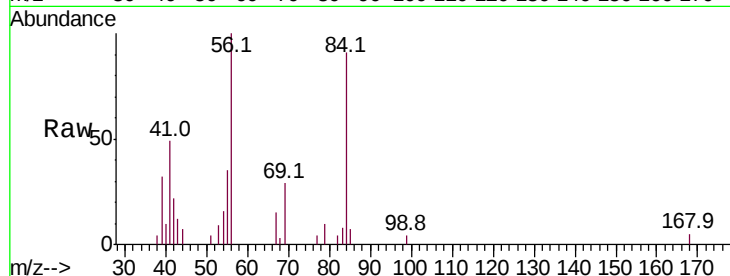




#29
Cyclohexane
Concen: 2.248 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

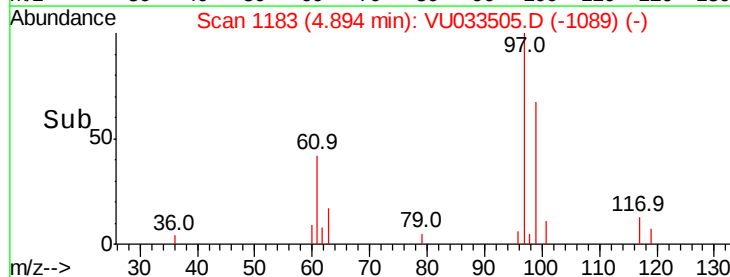
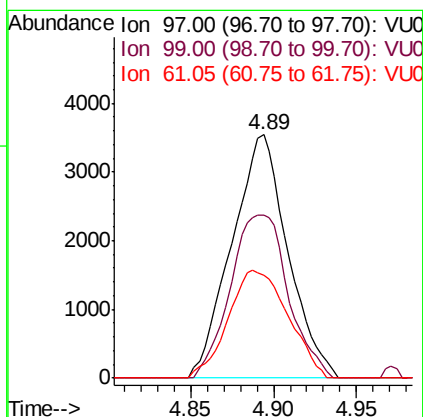
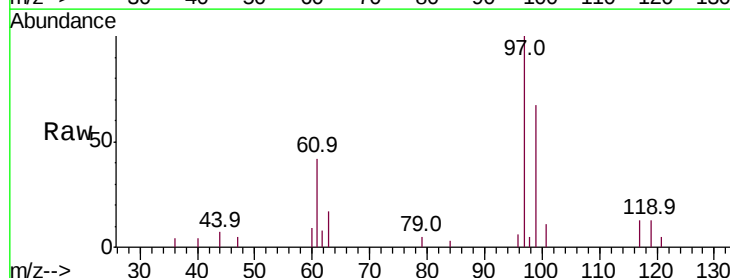
Instrument :
MSVOA_U
ClientSampled :
MDL05

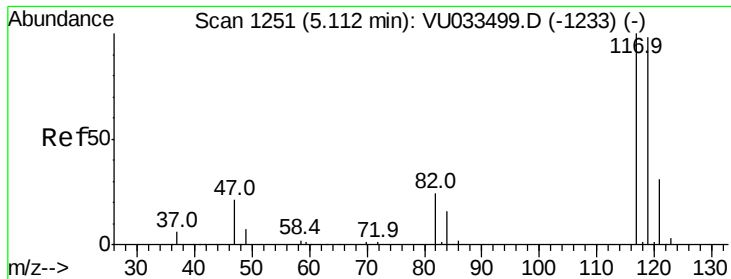
Tot Ion: 56 Resp: 7793
Ion Ratio Lower Upper
56 100
69 27.2 25.0 37.6
84 87.3 71.6 107.4



#30
1,1,1-Trichloroethane
Concen: 2.275 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

Tgt Ion: 97 Resp: 8322
Ion Ratio Lower Upper
97 100
99 69.5 51.1 76.7
61 47.4 35.5 53.3





#31

Carbon tetrachloride

Concen: 2.315 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

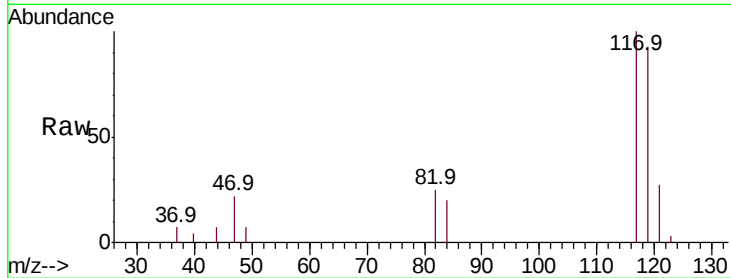
MDL05

Tot Ion:117 Resp: 7373

Ion Ratio Lower Upper

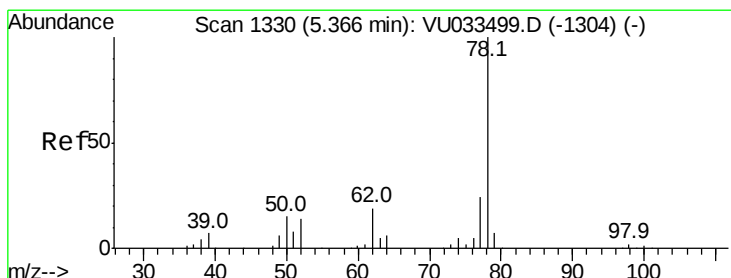
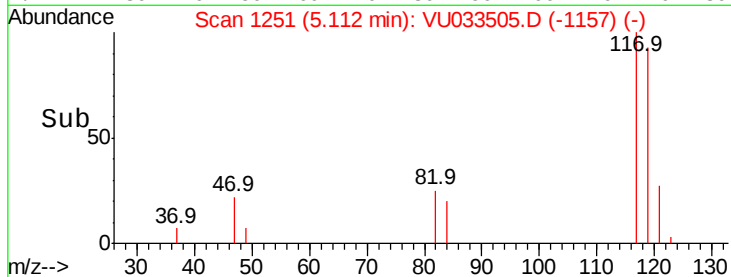
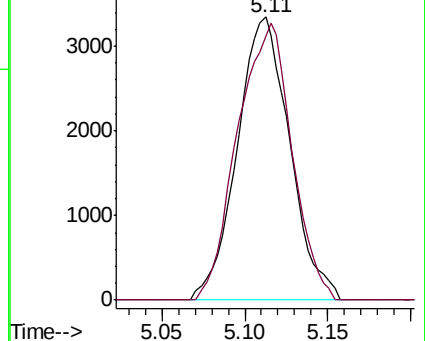
117 100

119 101.1 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: 2.252 ug/L

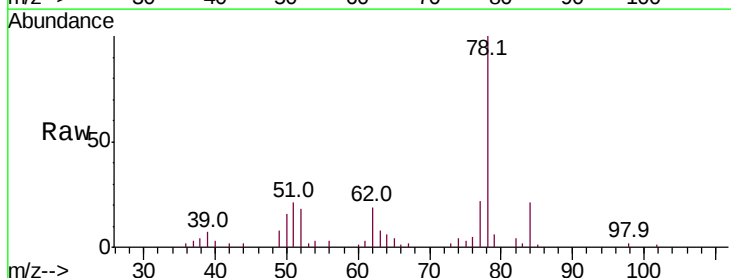
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

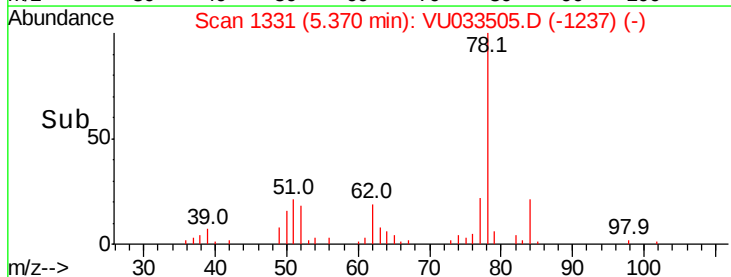
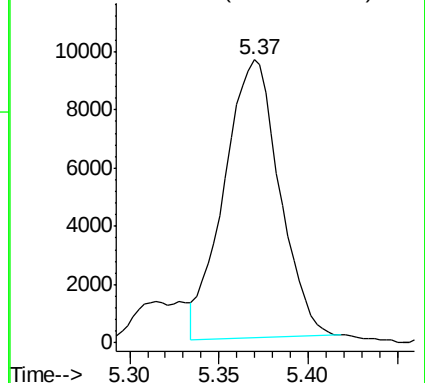
Lab File: VU033505.D

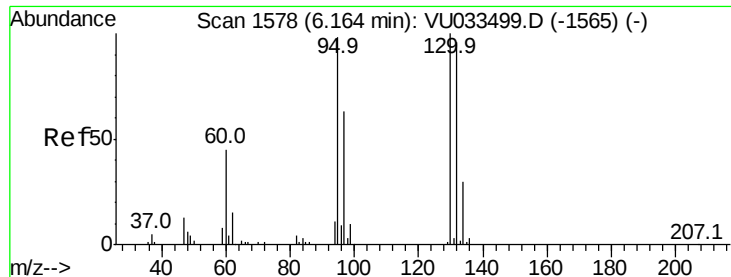
Acq: 30 Jul 2019 20:20

Tgt Ion: 78 Resp: 20652



Abundance Ion 78.00 (77.70 to 78.70): VU0

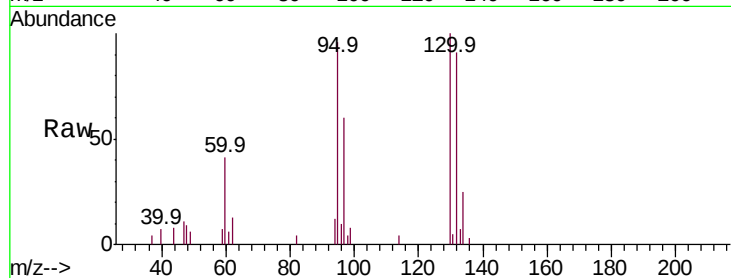




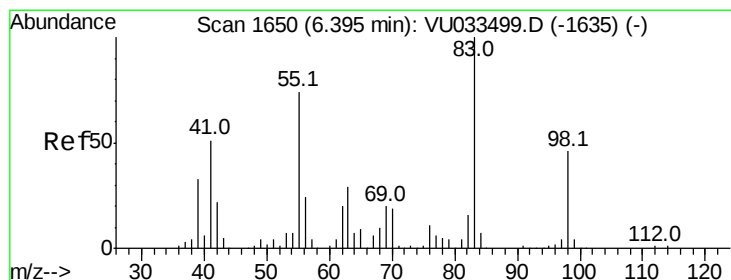
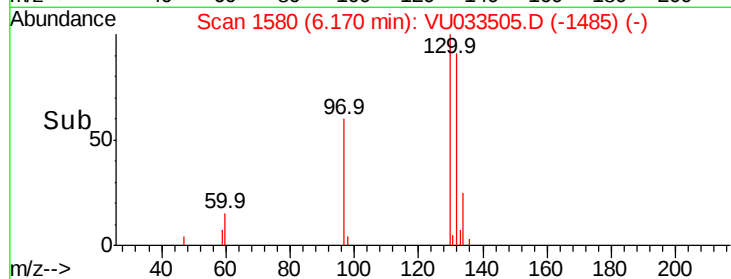
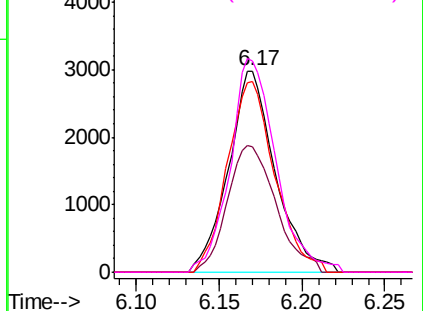
#34
 Trichloroethene
 Concen: 2.426 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 95 Resp: 5868
 Ion Ratio Lower Upper
 95 100
 97 62.4 44.7 83.1
 132 94.7 66.8 124.0
 130 104.7 71.6 133.0

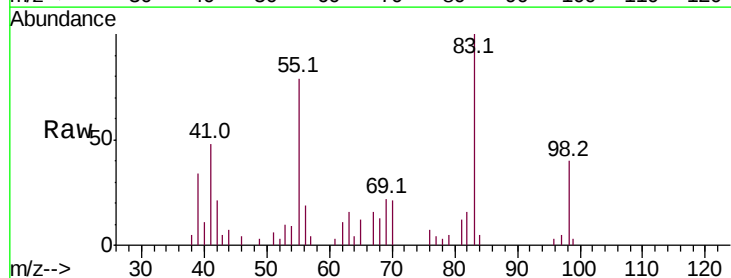


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

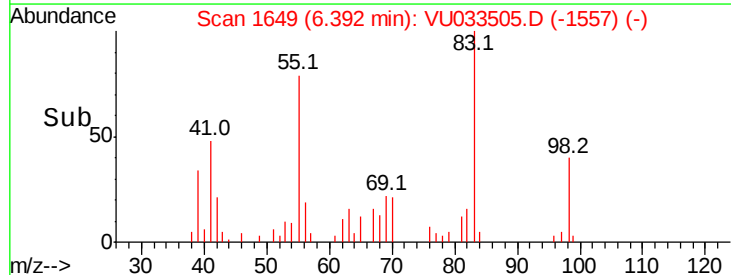
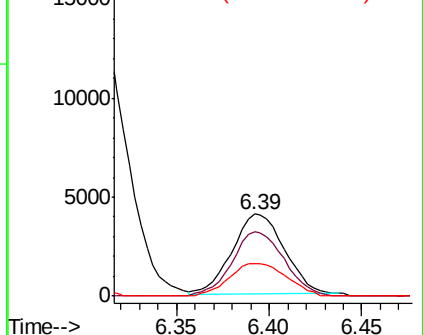


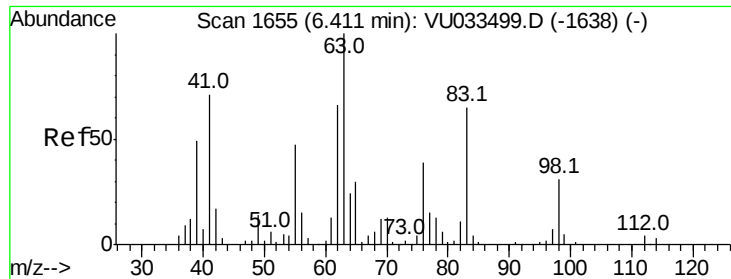
#35
 Methylcyclohexane
 Concen: 2.114 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

Tgt Ion: 83 Resp: 7979
 Ion Ratio Lower Upper
 83 100
 55 79.8 60.2 90.4
 98 44.1 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

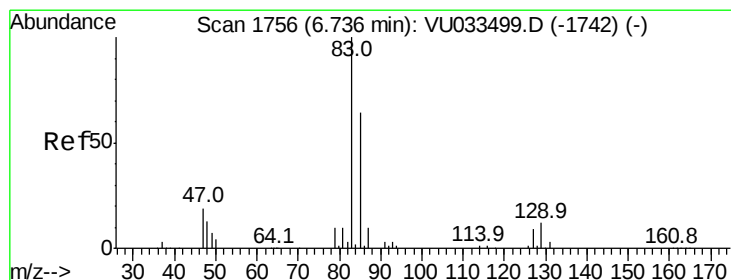
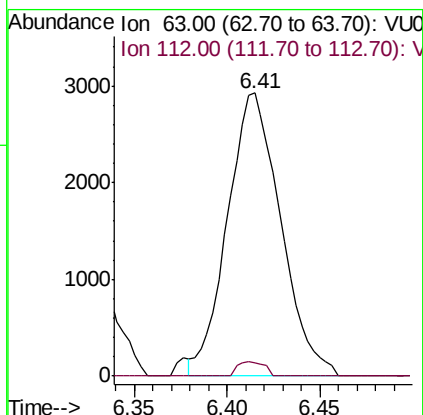
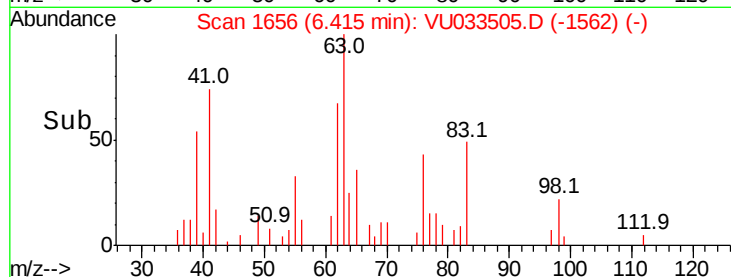
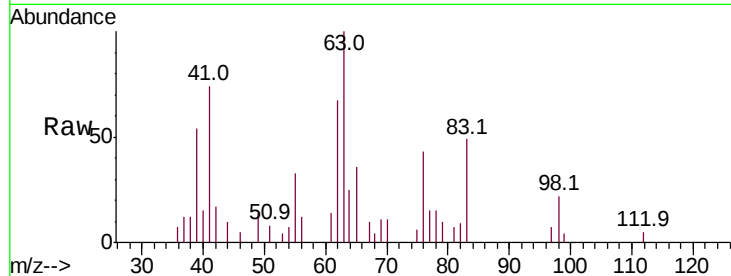




#37
 1,2-Dichloropropane
 Concen: 2.381 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

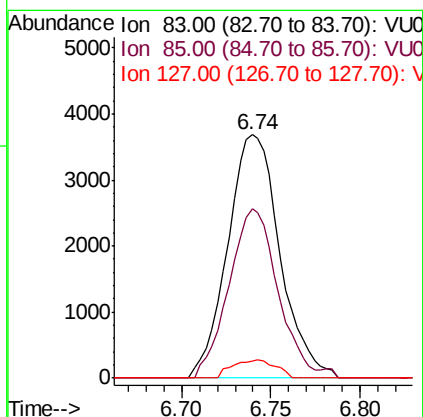
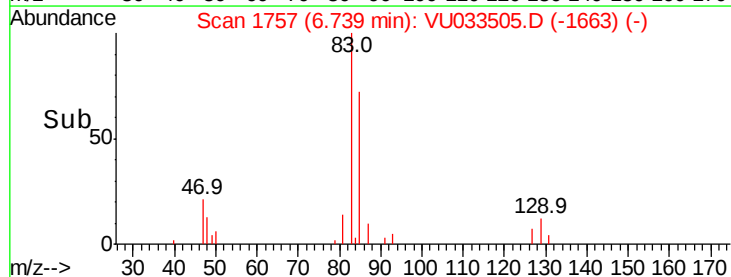
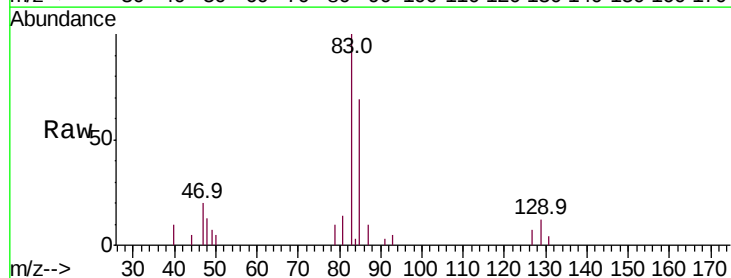
Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

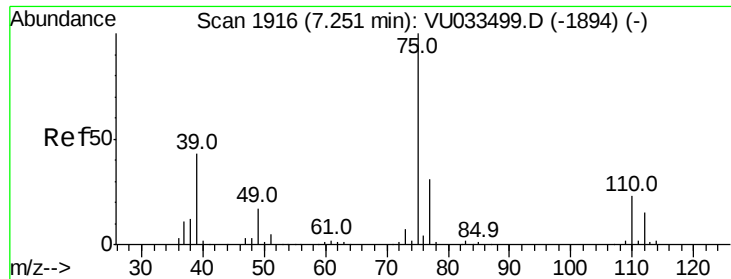
Tot Ion: 63 Resp: 5843
 Ion Ratio Lower Upper
 63 100
 112 2.5 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 2.374 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

Tgt Ion: 83 Resp: 7531
 Ion Ratio Lower Upper
 83 100
 85 69.3 45.1 83.9
 127 7.2 7.2 10.8

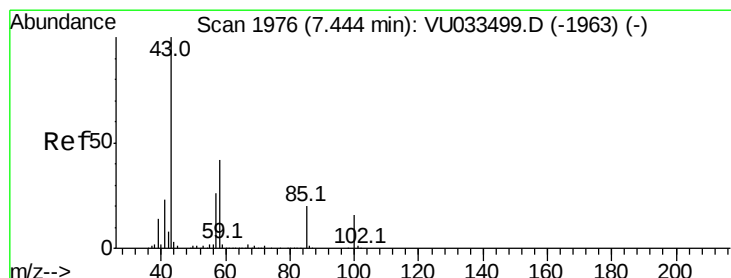
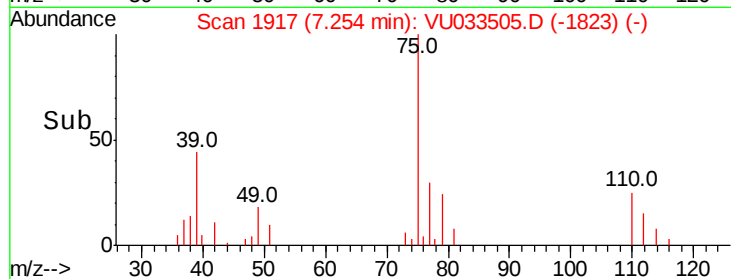
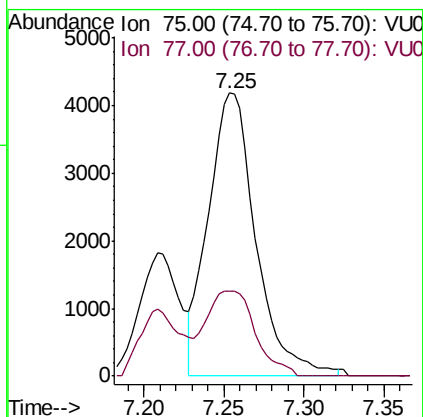
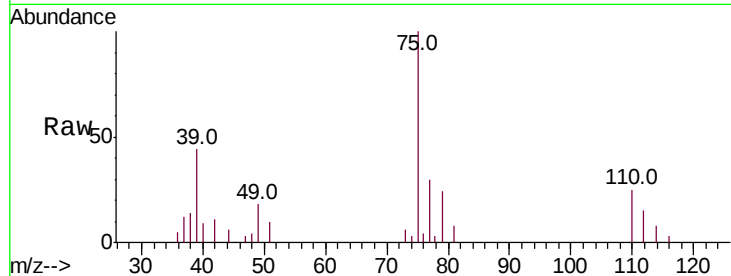




#39
 cis-1,3-Dichloropropene
 Concen: 2.255 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

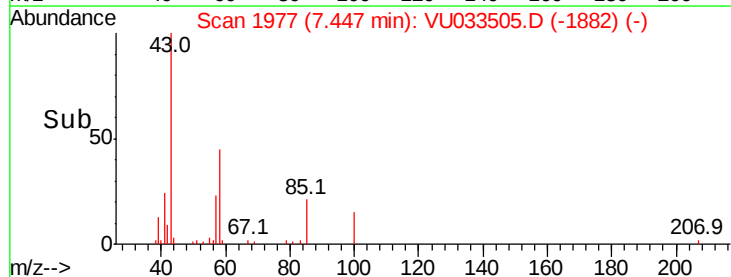
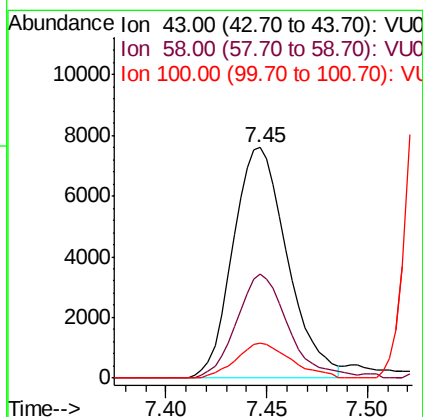
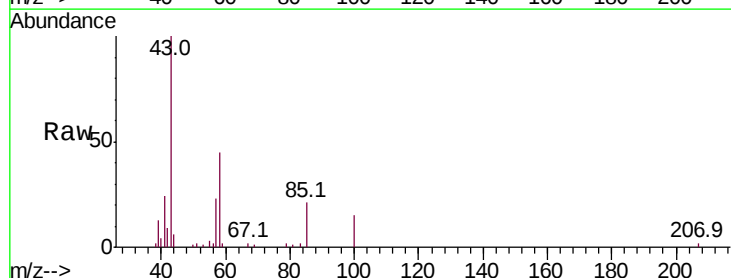
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

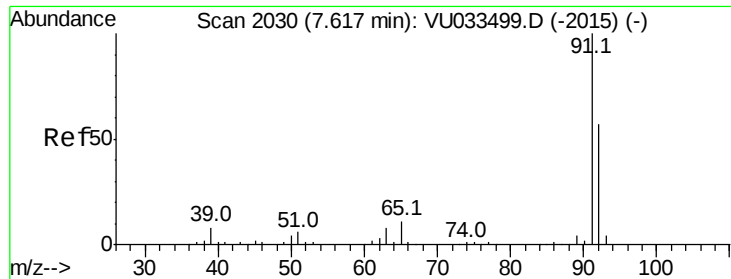
Tot Ion: 75 Resp: 8637
 Ion Ratio Lower Upper
 75 100
 77 30.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 4.229 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

Tgt Ion: 43 Resp: 14332
 Ion Ratio Lower Upper
 43 100
 58 42.6 32.8 49.2
 100 15.3 12.9 19.3





#42

Toluene

Concen: 2.370 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

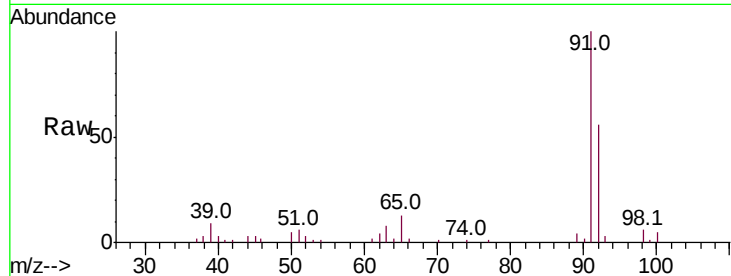
MDL05

Tot Ion: 91 Resp: 23364

Ion Ratio Lower Upper

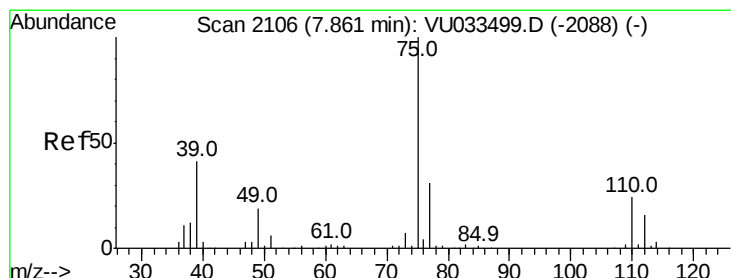
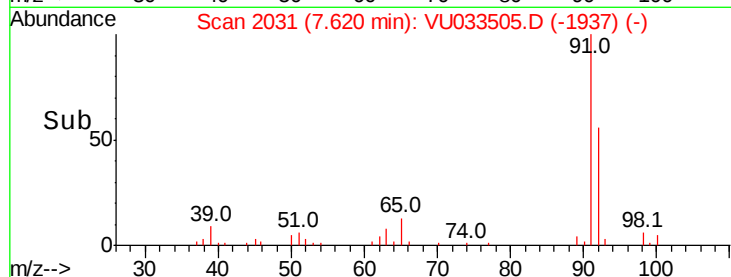
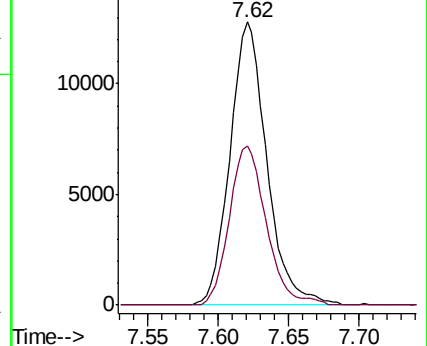
91 100

92 56.4 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033499.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU033499.D (-2015) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.303 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033505.D

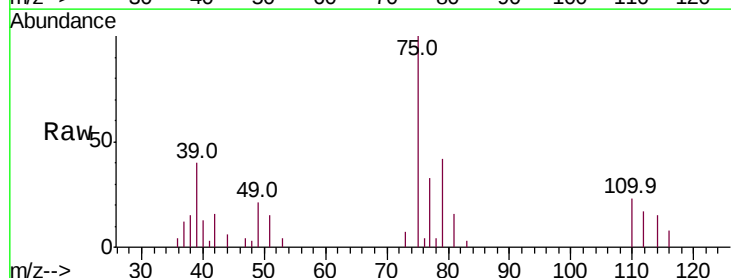
Acq: 30 Jul 2019 20:20

Tgt Ion: 75 Resp: 7973

Ion Ratio Lower Upper

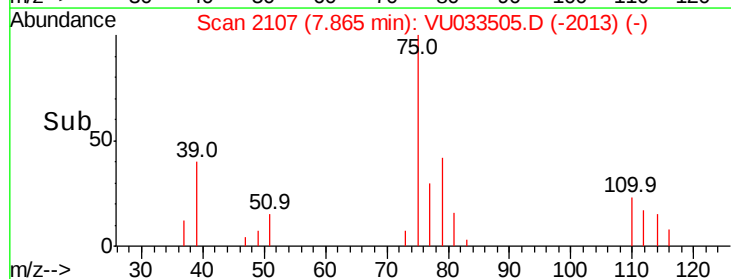
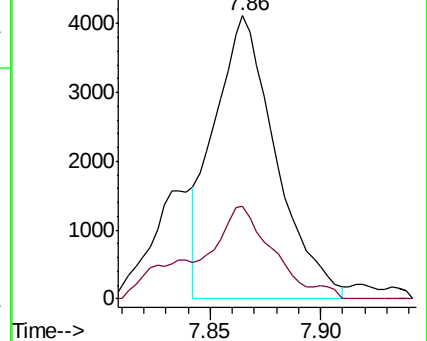
75 100

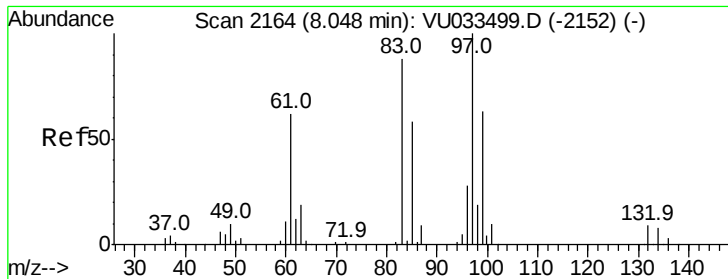
77 32.8 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU033499.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033499.D (-2088) (-)

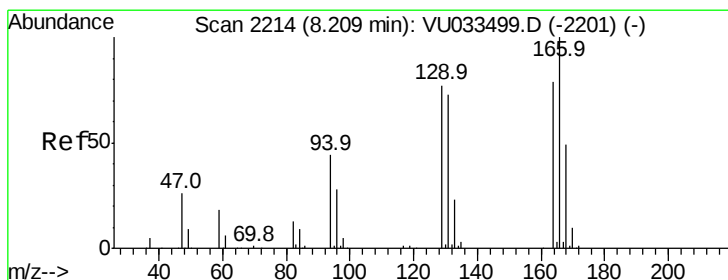
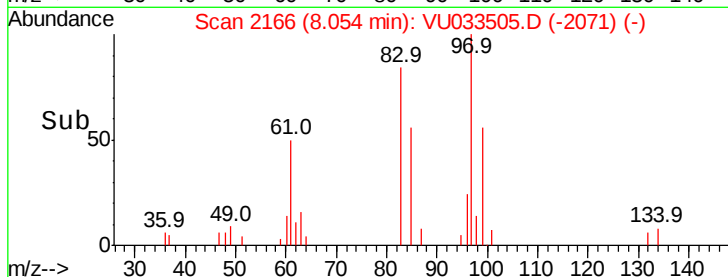
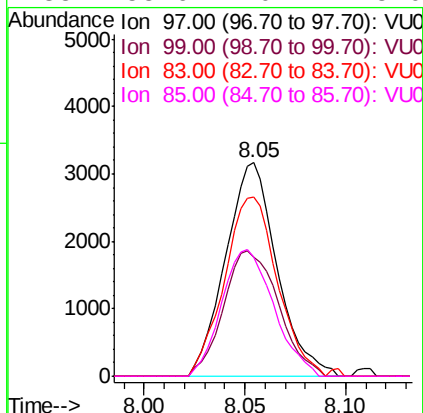
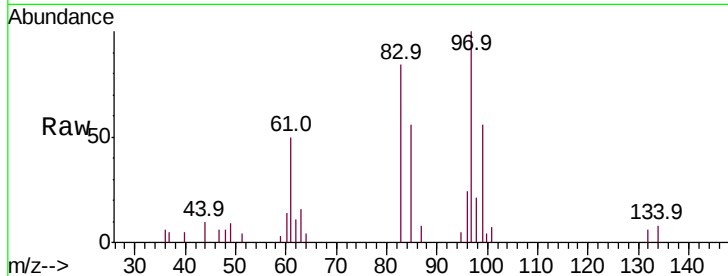




#45
 1,1,2-Trichloroethane
 Concen: 2.421 ug/L
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.01 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

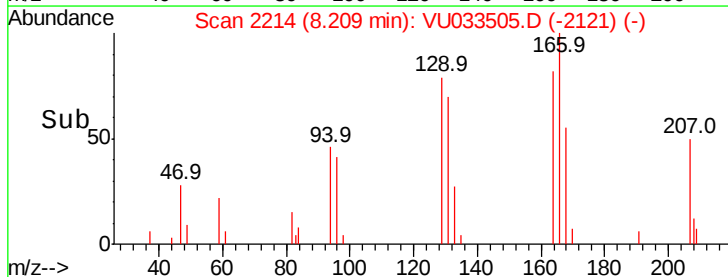
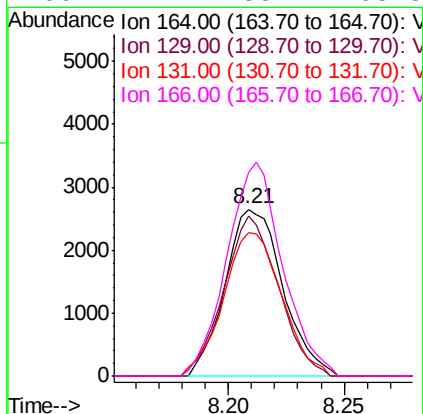
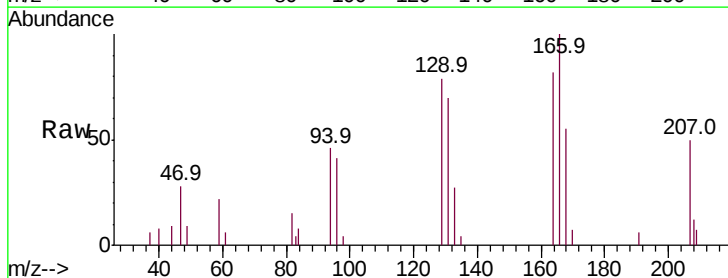
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL05

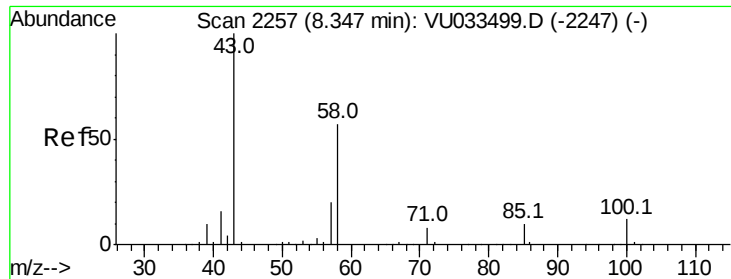
Tot Ion:	97	Resp:	5641
Ion	Ratio	Lower	Upper
97	100		
99	56.0	44.4	82.4
83	84.1	61.5	114.1
85	55.6	40.4	75.0



#46
 Tetrachloroethene
 Concen: 2.320 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

Tgt Ion:	164	Resp:	4582
Ion	Ratio	Lower	Upper
164	100		
129	96.4	65.5	121.7
131	86.3	63.3	117.7
166	122.4	88.2	163.8

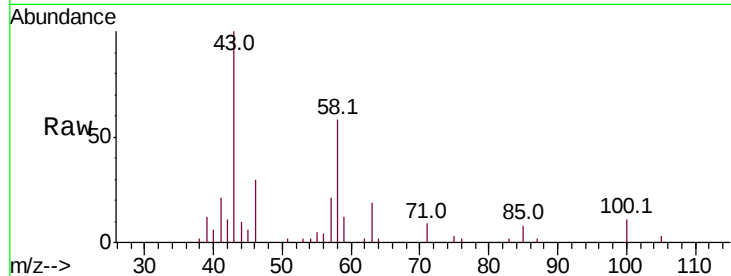




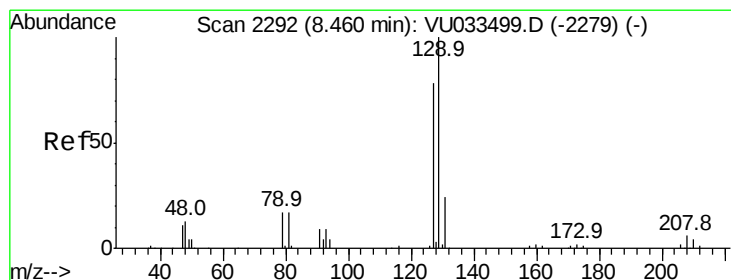
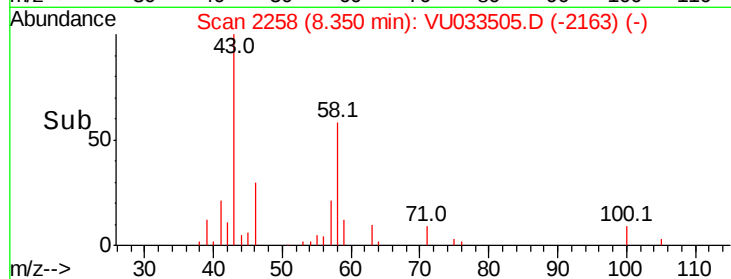
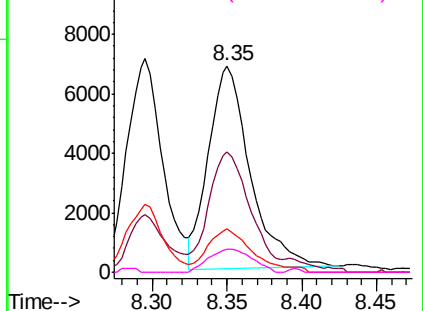
#48
2-Hexanone
Concen: 4.854 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion: 43 Resp: 13296
Ion Ratio Lower Upper
43 100
58 49.6 45.8 68.6
57 22.9 15.8 23.6
100 11.6 9.4 14.2

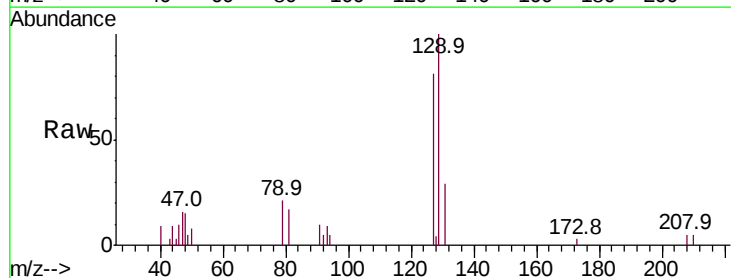


Abundance Ion 43.00 (42.70 to 43.70): VU033499.D (-2247) (-)
Ion 58.00 (57.70 to 58.70): VU033499.D (-2247) (-)
Ion 57.00 (56.70 to 57.70): VU033499.D (-2247) (-)
Ion 100.00 (99.70 to 100.70): VU033499.D (-2247) (-)

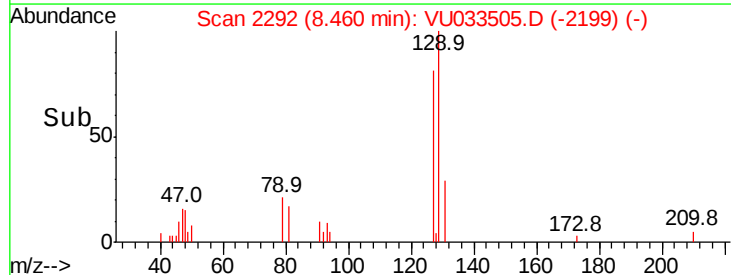
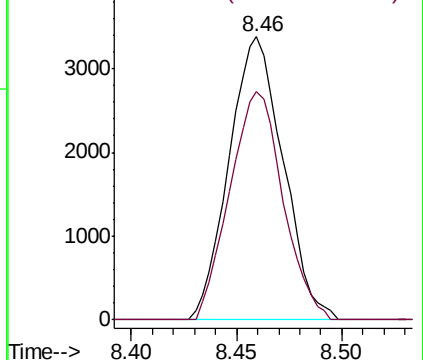


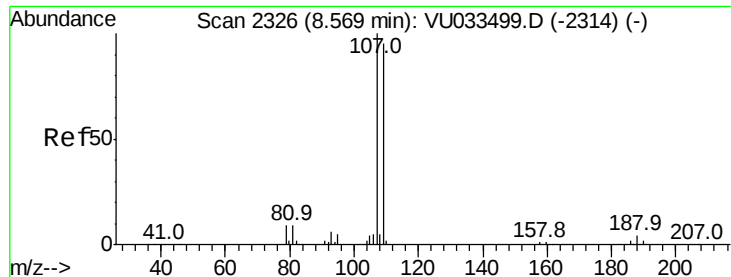
#49
Dibromochloromethane
Concen: 2.275 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033505.D
Acq: 30 Jul 2019 20:20

Tgt Ion: 129 Resp: 6030
Ion Ratio Lower Upper
129 100
127 80.6 53.8 99.8



Abundance Ion 129.00 (128.70 to 129.70): VU033499.D (-2279) (-)
Ion 127.00 (126.70 to 127.70): VU033499.D (-2279) (-)





#50

1,2-Dibromoethane

Concen: 2.399 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

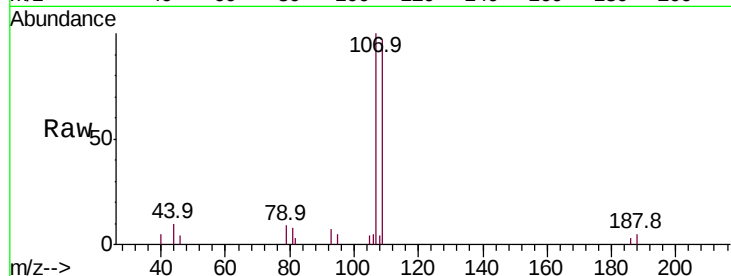
Tot Ion:107 Resp: 6192

Ion Ratio Lower Upper

107 100

109 97.3 66.8 124.0

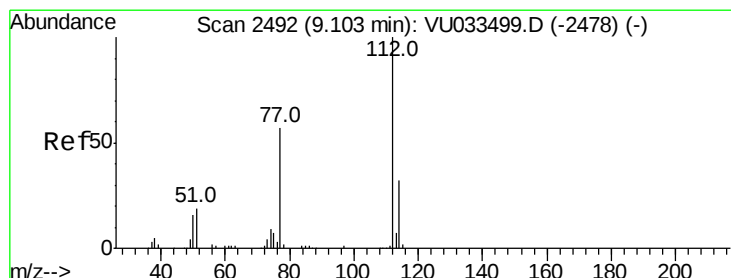
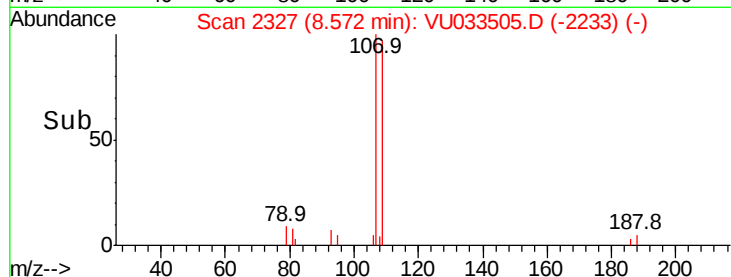
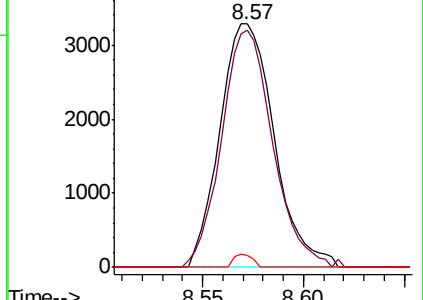
188 4.8 3.0 4.4#



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: 2.408 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

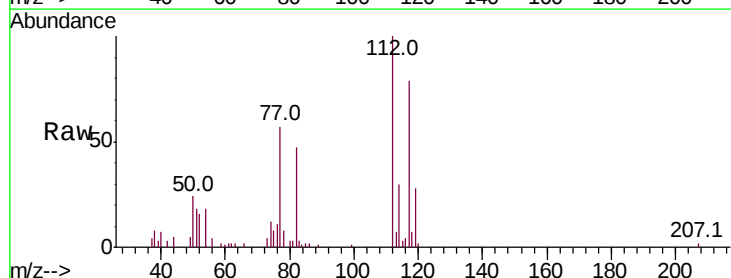
Tgt Ion:112 Resp: 15543

Ion Ratio Lower Upper

112 100

114 29.9 22.3 41.5

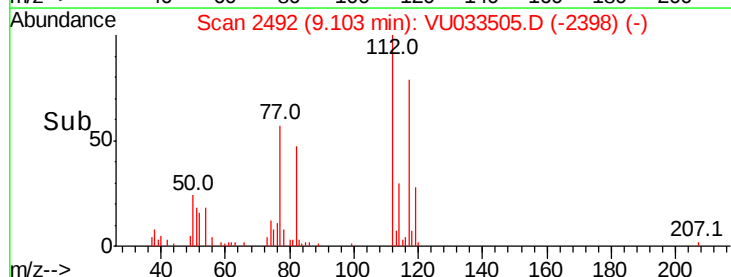
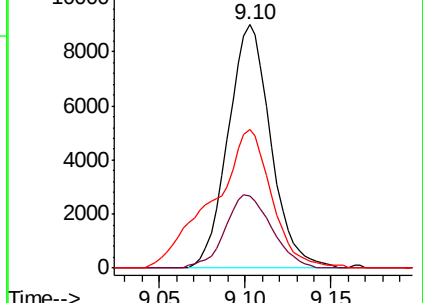
77 56.8 45.6 68.4

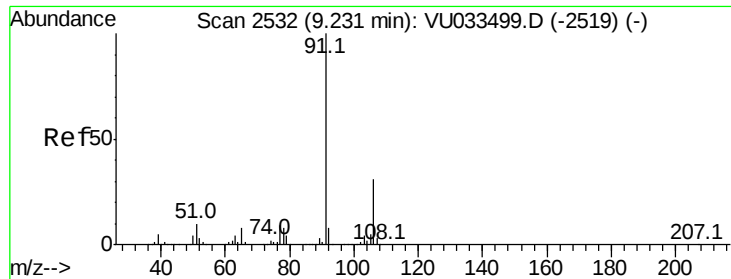


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 2.215 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

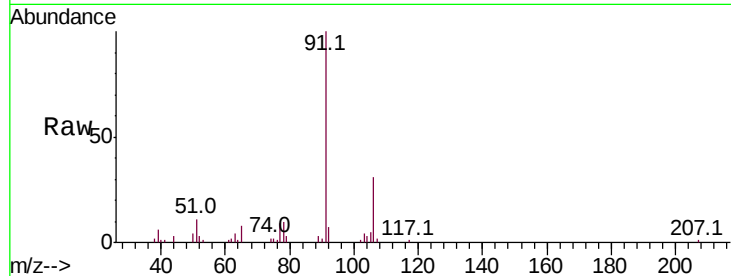
MDL05

Tot Ion: 91 Resp: 23522

Ion Ratio Lower Upper

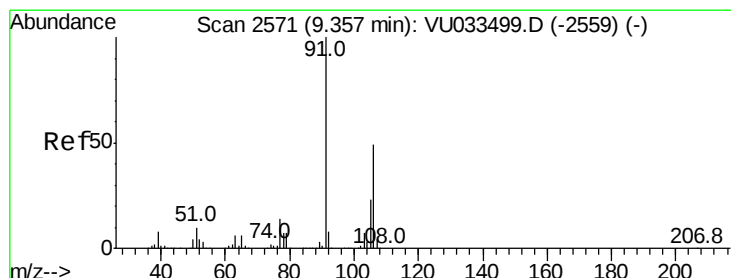
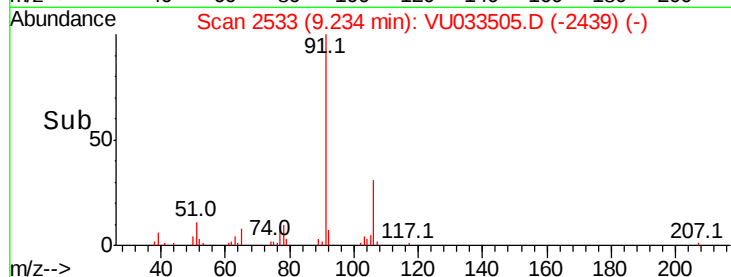
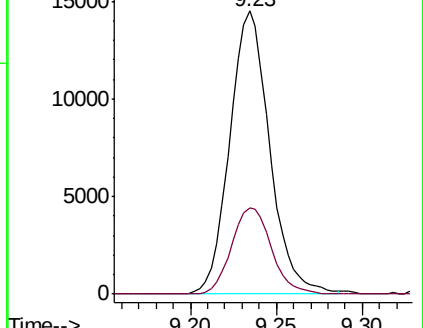
91 100

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) (-)



#53

m,p-Xylene

Concen: 2.178 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033505.D

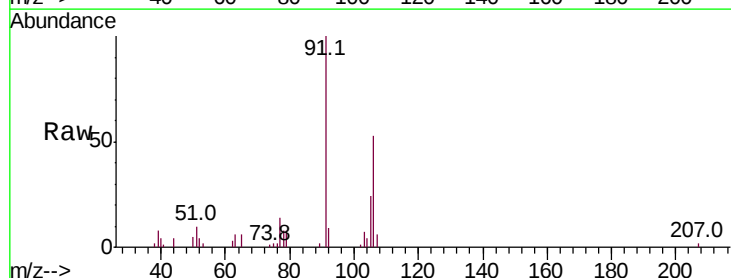
Acq: 30 Jul 2019 20:20

Tgt Ion: 106 Resp: 8878

Ion Ratio Lower Upper

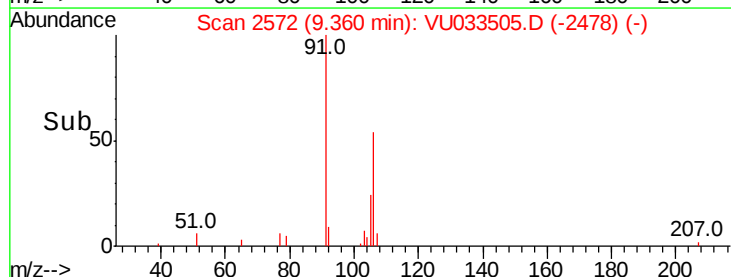
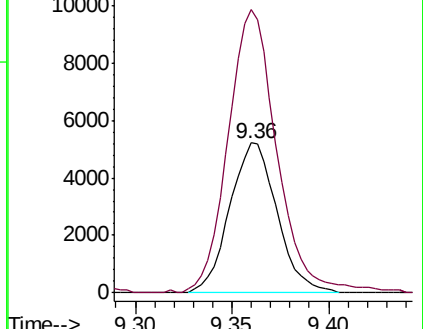
106 100

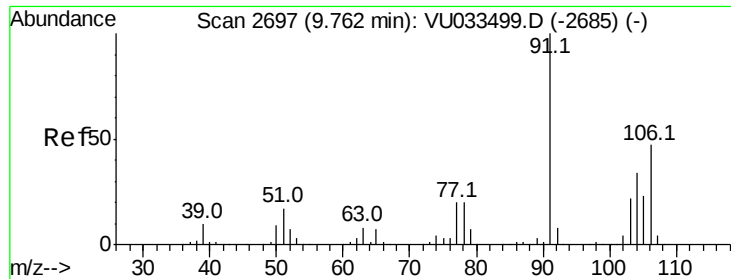
91 189.0 143.0 265.6



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

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





#54

o-xylene

Concen: 2.022 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampled :

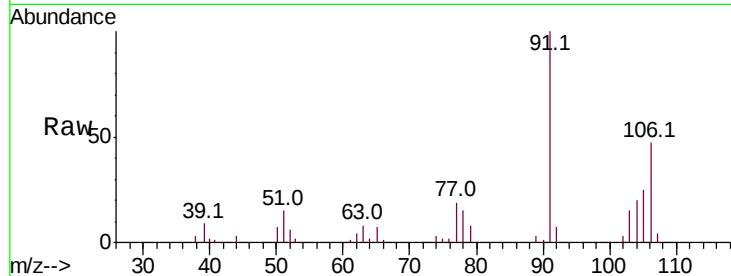
MDL05

Tot Ion:106 Resp: 7994

Ion Ratio Lower Upper

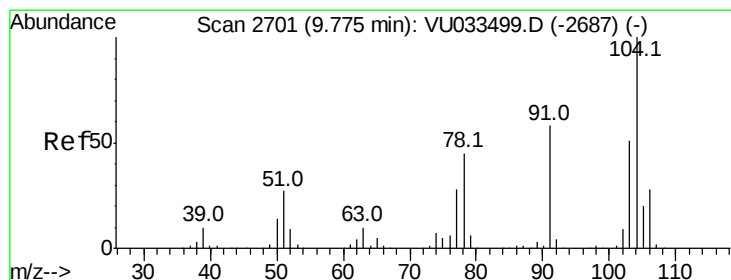
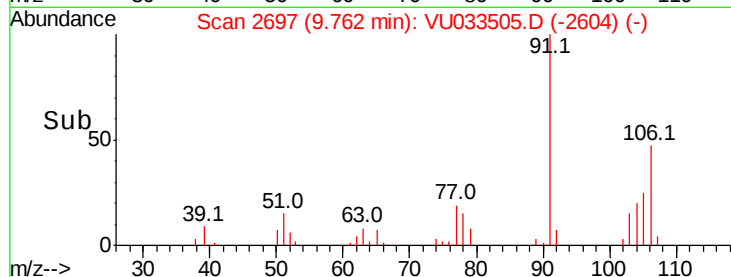
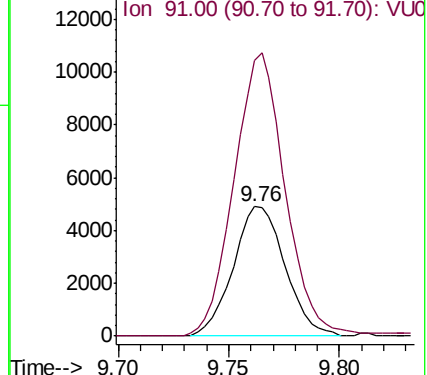
106 100

91 212.3 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.866 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033505.D

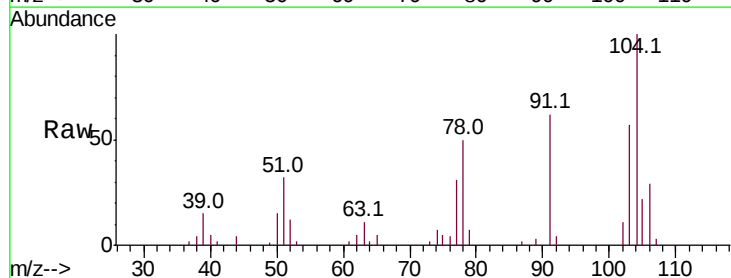
Acq: 30 Jul 2019 20:20

Tgt Ion:104 Resp: 12530

Ion Ratio Lower Upper

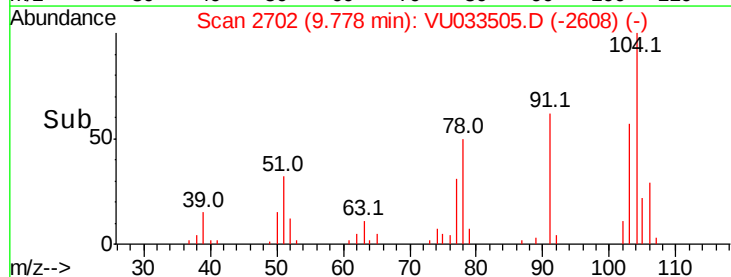
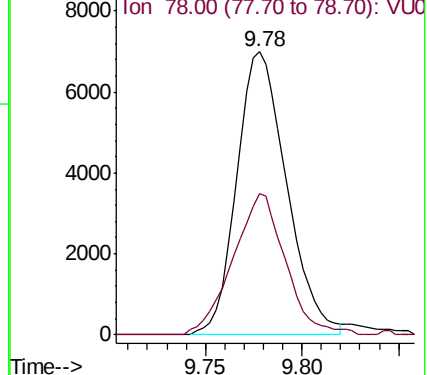
104 100

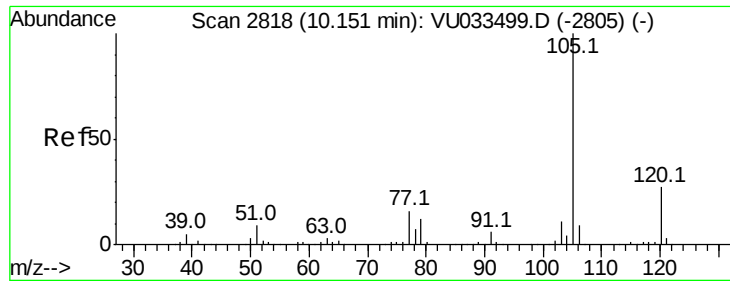
78 50.1 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.963 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

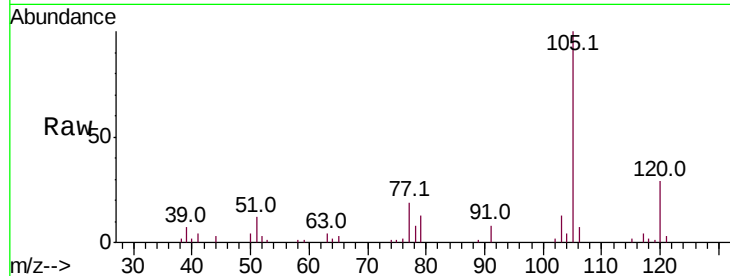
Tot Ion:105 Resp: 20281

Ion Ratio Lower Upper

105 100

120 27.4 21.4 32.0

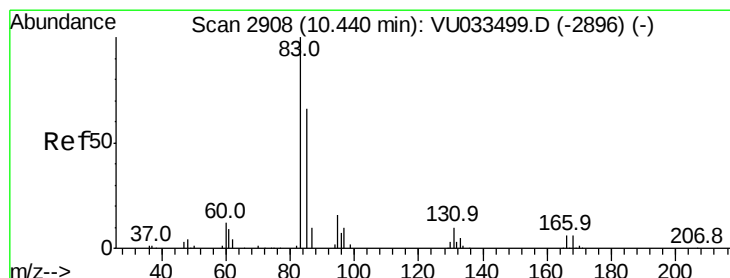
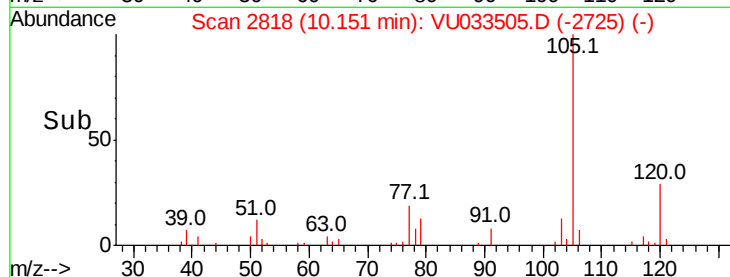
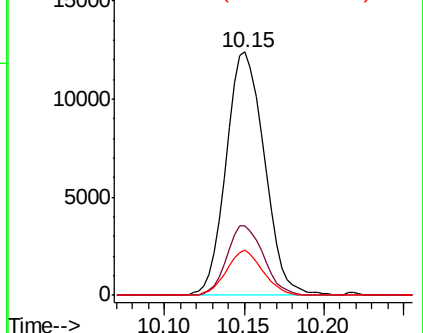
77 17.4 12.5 18.7



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: 2.604 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

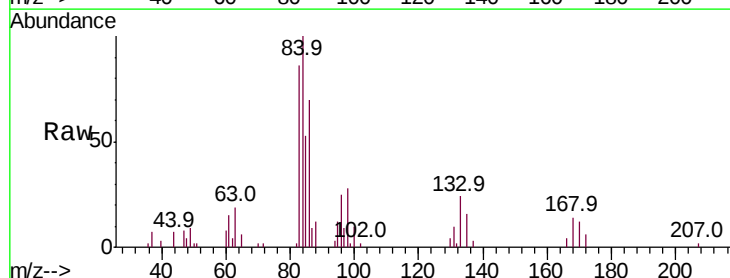
Tgt Ion: 83 Resp: 10942

Ion Ratio Lower Upper

83 100

85 61.6 45.4 84.4

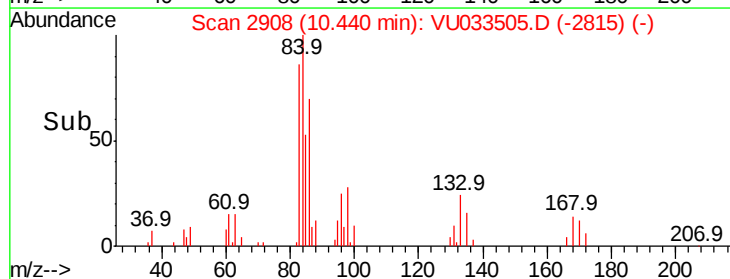
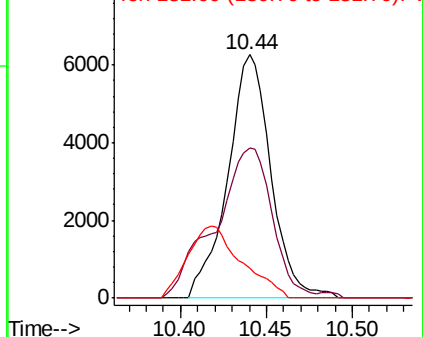
131 12.1 7.9 11.9#

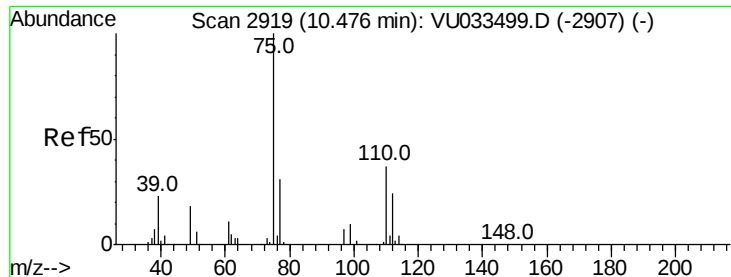


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.504 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampled :

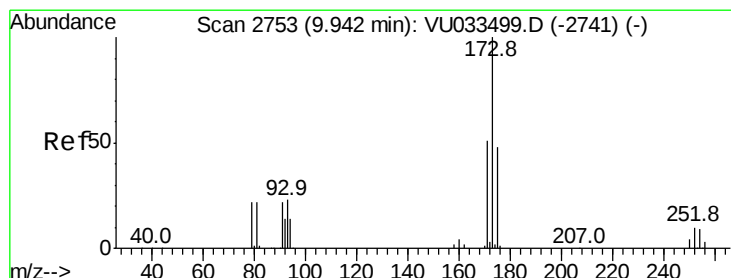
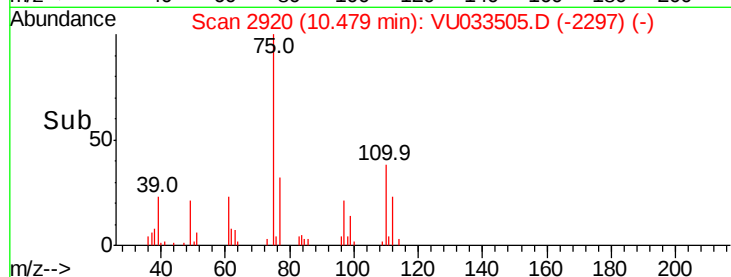
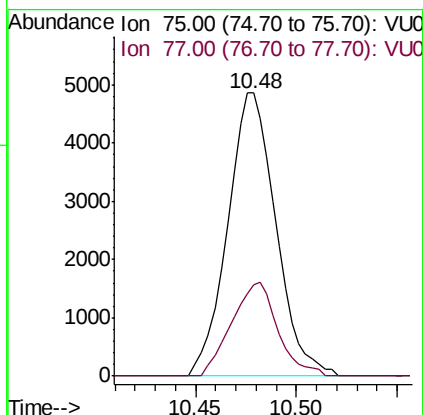
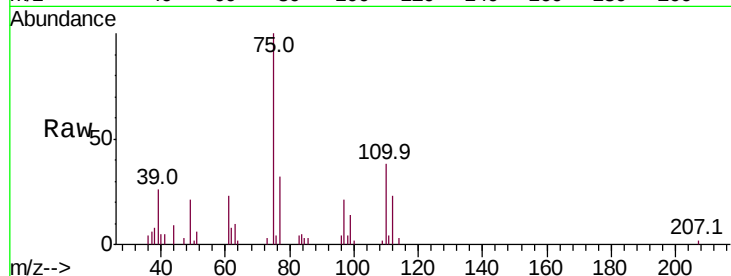
MDL05

Tot Ion: 75 Resp: 8111

Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.6



#61

Bromoform

Concen: 2.366 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

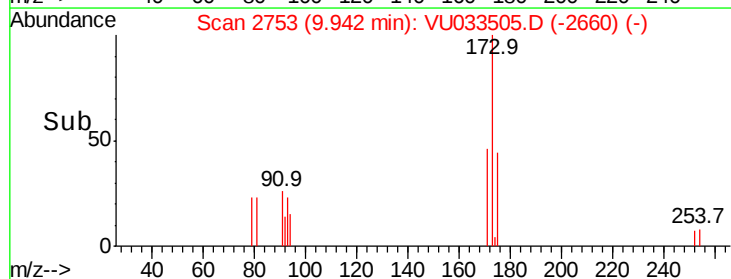
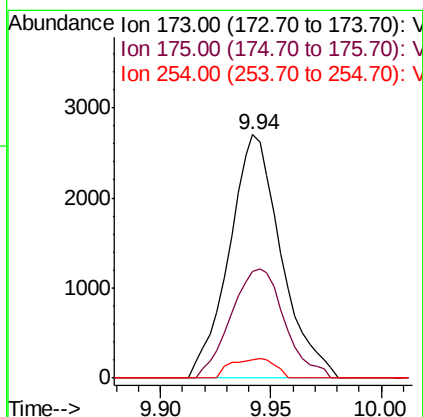
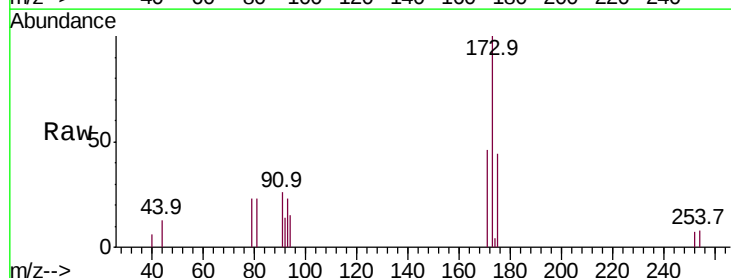
Tgt Ion: 173 Resp: 4419

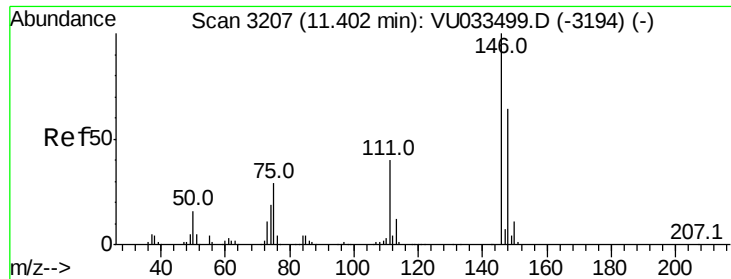
Ion Ratio Lower Upper

173 100

175 46.3 38.7 58.1

254 6.7 7.5 11.3#





#62

1,3-Dichlorobenzene

Concen: 2.372 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

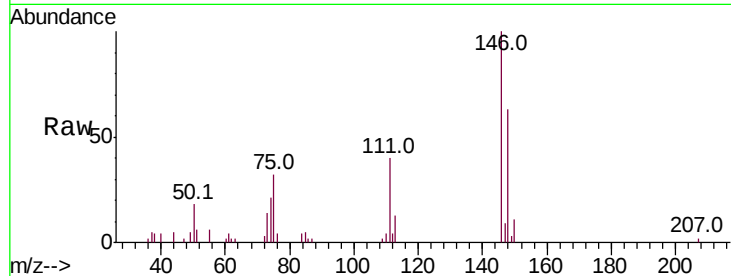
Tot Ion:146 Resp: 11262

Ion Ratio Lower Upper

146 100

111 40.3 28.1 52.1

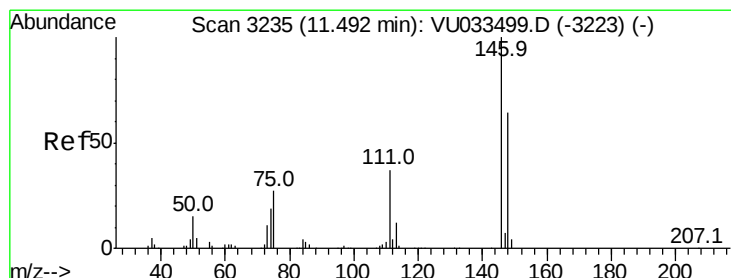
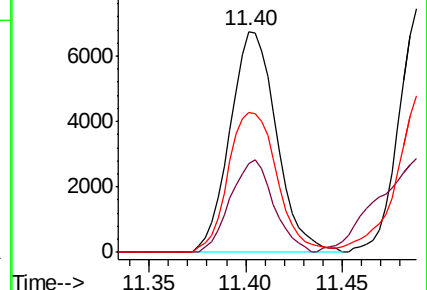
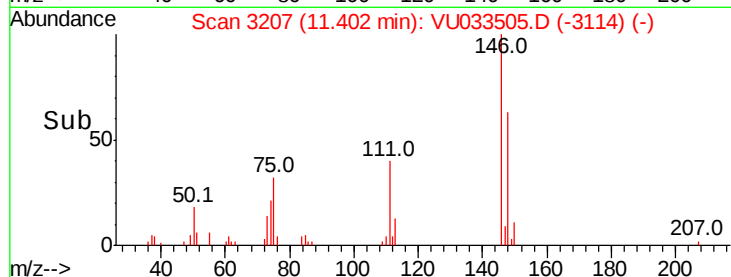
148 63.3 45.0 83.6



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: 2.596 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

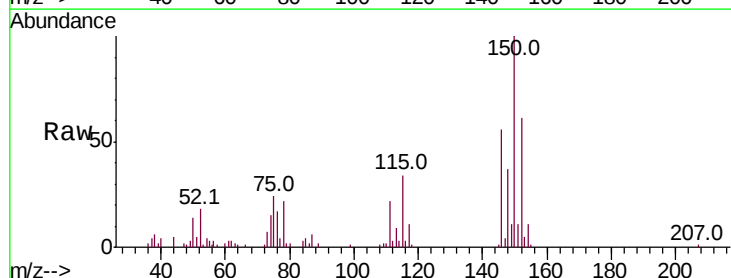
Tgt Ion:146 Resp: 12808

Ion Ratio Lower Upper

146 100

111 39.8 27.2 50.4

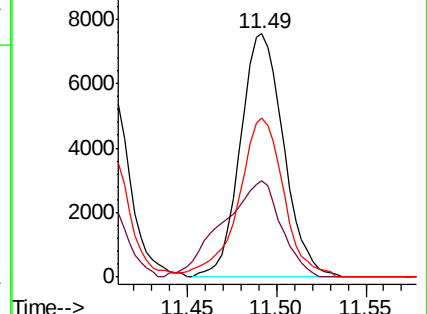
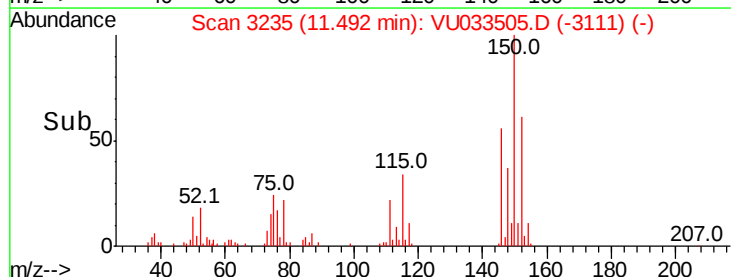
148 65.6 44.5 82.7

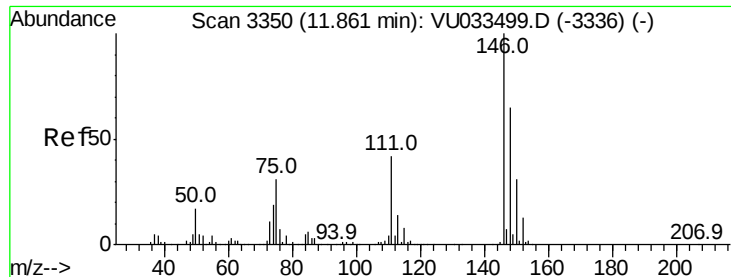


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 2.684 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

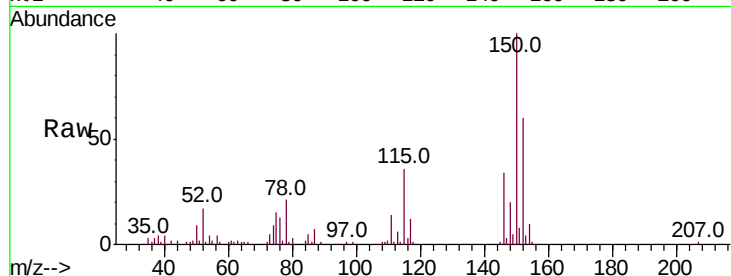
Tot Ion:146 Resp: 12887

Ion Ratio Lower Upper

146 100

111 41.7 31.7 47.5

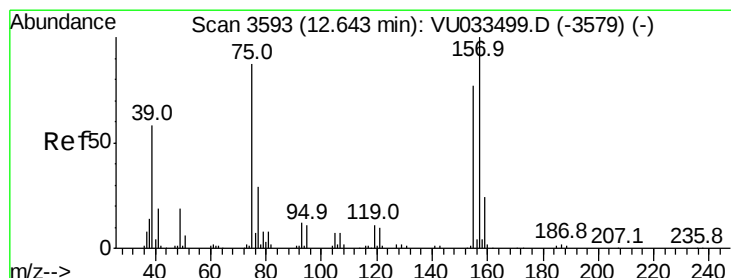
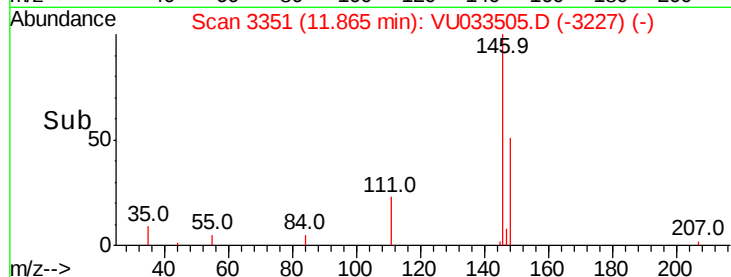
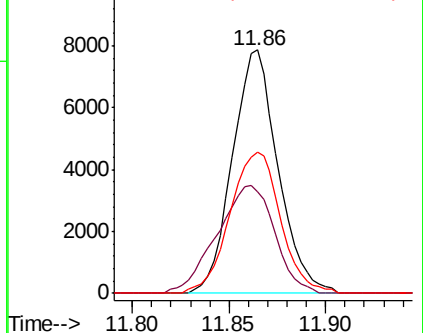
148 57.9 50.3 75.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 2.234 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

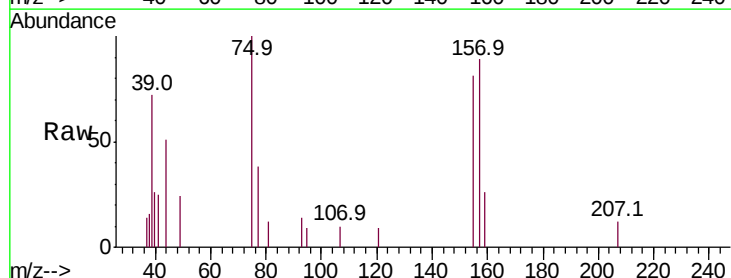
Tgt Ion: 75 Resp: 1982

Ion Ratio Lower Upper

75 100

155 80.6 69.4 104.0

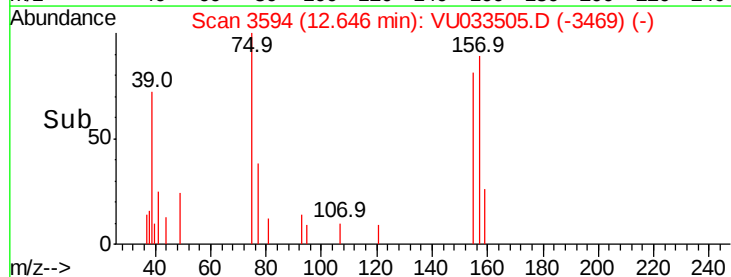
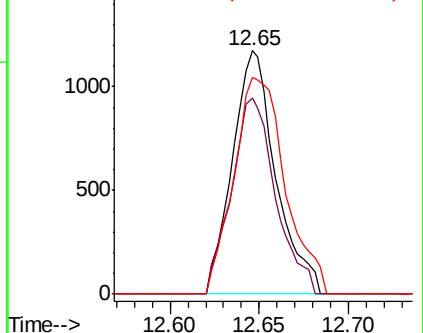
157 89.3 91.8 137.8#

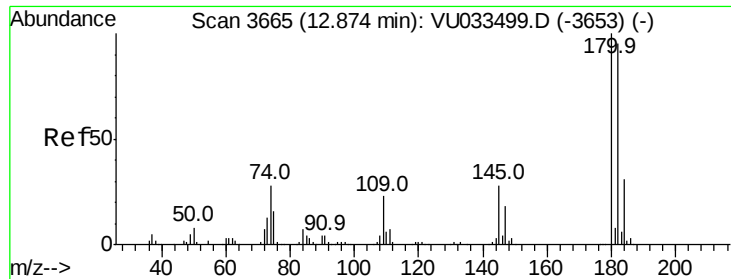


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

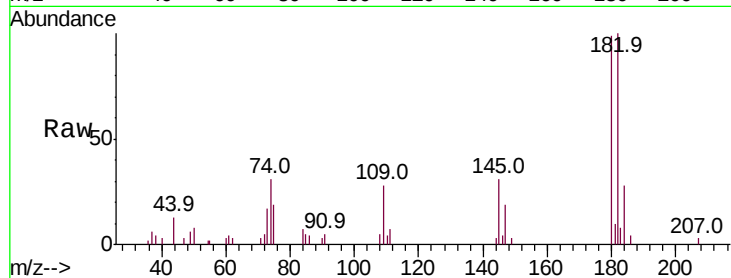




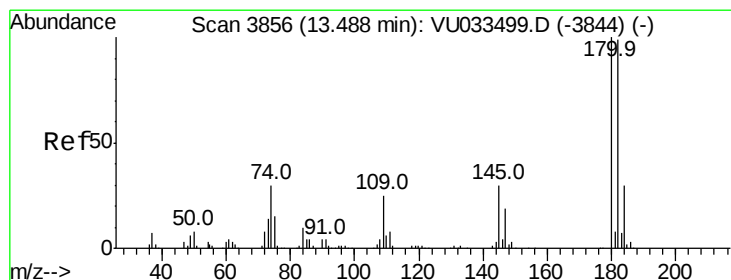
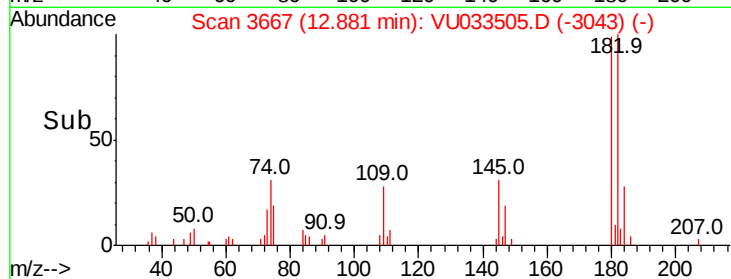
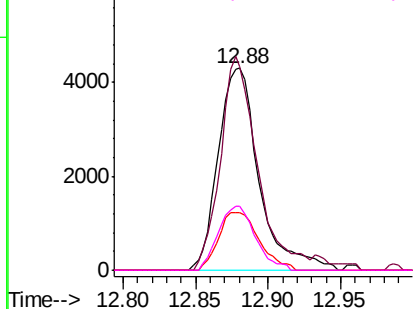
#67
 1,3,5-Trichlorobenzene
 Concen: 2.195 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. 0.01 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:180 Resp: 8410
 Ion Ratio Lower Upper
 180 100
 182 95.5 75.6 113.4
 184 28.4 24.2 36.2
 145 28.6 22.7 34.1

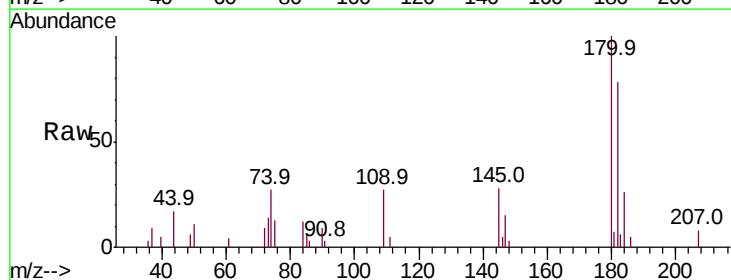


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

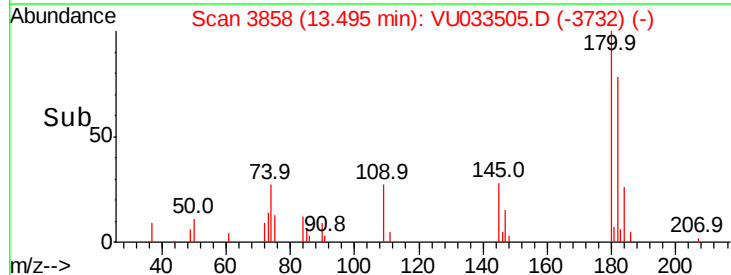
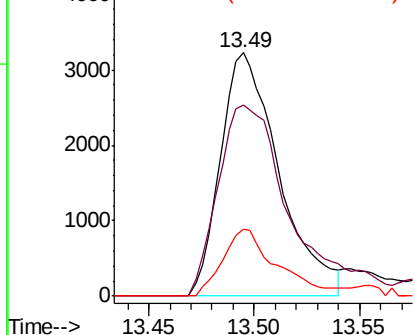


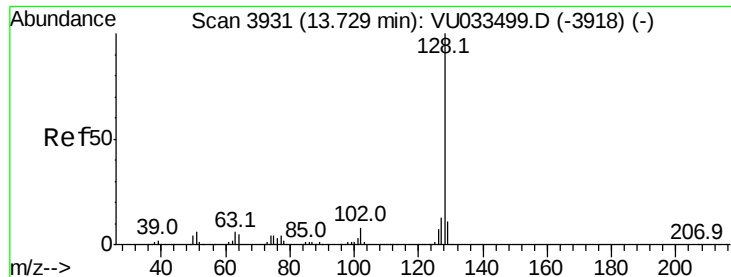
#68
 1,2,4-trichlorobenzene
 Concen: 1.904 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033505.D
 Acq: 30 Jul 2019 20:20

Tgt Ion:180 Resp: 6231
 Ion Ratio Lower Upper
 180 100
 182 92.3 75.8 113.8
 145 25.4 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: 1.412 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

Instrument :

MSVOA_U

ClientSampleId :

MDL05

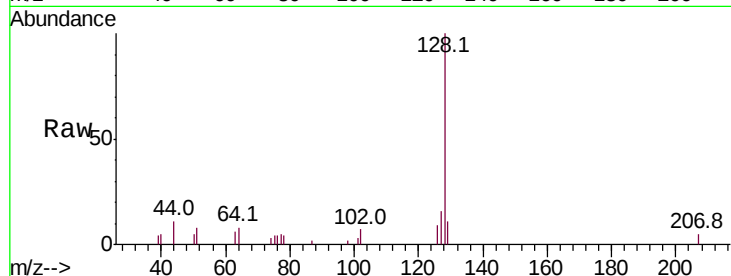
Tot Ion:128 Resp: 13257

Ion Ratio Lower Upper

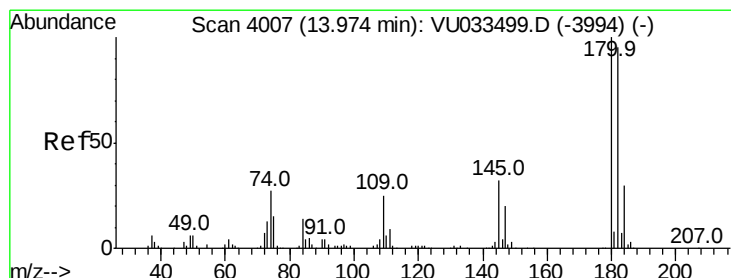
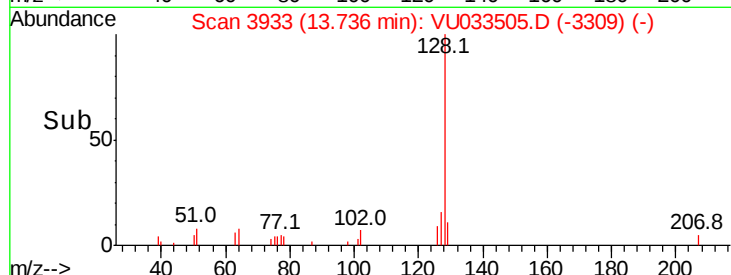
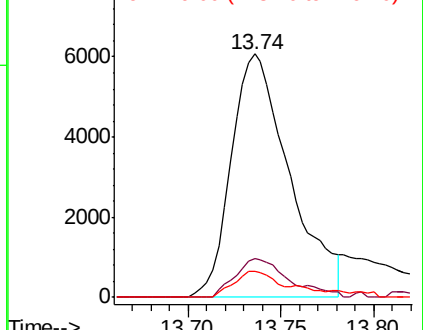
128 100

127 12.9 10.8 16.2

129 7.5 8.7 13.1#



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



#70

1,2,3-Trichlorobenzene

Concen: 1.697 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033505.D

Acq: 30 Jul 2019 20:20

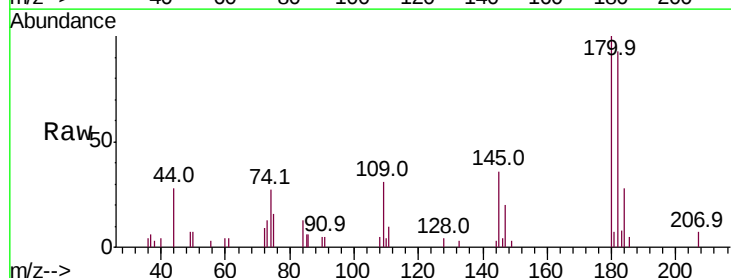
Tgt Ion:180 Resp: 5843

Ion Ratio Lower Upper

180 100

182 94.9 75.5 113.3

145 35.5 24.4 36.6



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

