

Data File : VU033506.D
Acq On : 30 Jul 2019 20:43
Operator : JC/SP
Sample : MDL06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Quant Time: Jul 31 08:10:51 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	316853	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	311335	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	155931	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	106308	46.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.30%
7) Chloroethane-d5	1.67	69	104949	53.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.20%
11) 1,1-Dichloroethene-d2	2.26	63	146942	35.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.28%
21) 2-Butanone-d5	4.16	46	154231	101.08	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.08%
24) Chloroform-d	4.62	84	184573	47.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.60%
26) 1,2-Dichloroethane-d4	5.29	65	119856	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.02%
32) Benzene-d6	5.32	84	382185	49.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.04%
36) 1,2-Dichloropropane-d6	6.31	67	118995	49.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.36%
41) Toluene-d8	7.55	98	345410	47.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.52%
43) trans-1,3-Dichloropropene-	7.83	79	55400	46.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.32%
47) 2-Hexanone-d5	8.30	63	114431	99.62	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.62%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	177813	47.66	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.32%
64) 1,2-Dichlorobenzene-d4	11.85	152	138556	48.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.04%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	8752	2.929 ug/L	98
3) Chloromethane	1.32	50	9585	3.185 ug/L	98
5) Vinyl chloride	1.40	62	10540	3.267 ug/L #	78
6) Bromomethane	1.62	94	7063	2.481 ug/L	92
8) Chloroethane	1.69	64	8545	4.358 ug/L	89
9) Trichlorofluoromethane	1.87	101	13708	3.248 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	7328	3.425 ug/L	91
12) 1,1-Dichloroethene	2.27	96	7143	3.481 ug/L #	1
13) Acetone	2.32	43	8708	5.578 ug/L	99
14) Carbon disulfide	2.46	76	20047	3.115 ug/L	96
15) Methyl Acetate	2.61	43	7582	3.051 ug/L	96
16) Methylene chloride	2.68	84	7627	3.254 ug/L	95
17) trans-1,2-Dichloroethene	2.96	96	6599	3.070 ug/L	97
18) Methyl tert-butyl Ether	2.98	73	19363	2.954 ug/L	98
19) 1,1-Dichloroethane	3.43	63	12706	3.149 ug/L	94
20) cis-1,2-Dichloroethene	4.20	96	7193	2.981 ug/L	96
22) 2-Butanone	4.26	43	9774	5.245 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	1594	1.266	ug/L	94
25) Chloroform	4.65	83	17532	4.129	ug/L	93
27) 1,2-Dichloroethane	5.39	62	9855	3.014	ug/L	100
29) Cyclohexane	4.97	56	9762	2.875	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	11306	3.156	ug/L	97
31) Carbon tetrachloride	5.11	117	9405	3.015	ug/L	98
33) Benzene	5.37	78	28825	3.209	ug/L	100
34) Trichloroethene	6.17	95	7223	3.049	ug/L	93
35) Methylcyclohexane	6.39	83	10438	2.823	ug/L	98
37) 1,2-Dichloropropane	6.41	63	7704	3.205	ug/L #	96
38) Bromodichloromethane	6.74	83	9632	3.099	ug/L #	98
39) cis-1,3-Dichloropropene	7.25	75	10581	2.820	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	18825	5.671	ug/L	99
42) Toluene	7.62	91	30195	3.127	ug/L	97
44) trans-1,3-Dichloropropene	7.86	75	12606	3.717	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	7387	3.237	ug/L	94
46) Tetrachloroethene	8.21	164	5939	3.070	ug/L	96
48) 2-Hexanone	8.35	43	18642	6.948	ug/L	93
49) Dibromochloromethane	8.46	129	8291	3.193	ug/L	97
50) 1,2-Dibromoethane	8.57	107	7870	3.113	ug/L	93
51) Chlorobenzene	9.10	112	19787	3.129	ug/L	98
52) Ethylbenzene	9.23	91	30452	2.928	ug/L	99
53) m,p-Xylene	9.36	106	10939	2.740	ug/L	89
54) o-xylene	9.76	106	10404	2.686	ug/L	98
55) Styrene	9.78	104	17394	2.644	ug/L	99
56) Isopropylbenzene	10.15	105	26413	2.610	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.44	83	13749	3.340	ug/L	93
59) 1,2,3-Trichloropropane	10.48	75	10121	3.189	ug/L	98
61) Bromoform	9.94	173	5800	3.079	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	14878	3.107	ug/L	96
63) 1,4-Dichlorobenzene	11.49	146	15660	3.148	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	15680	3.238	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2637	2.948	ug/L	93
67) 1,3,5-Trichlorobenzene	12.88	180	10018	2.593	ug/L	96
68) 1,2,4-trichlorobenzene	13.49	180	7781	2.357	ug/L	97
69) Naphthalene	13.74	128	19176	2.025	ug/L	98
70) 1,2,3-Trichlorobenzene	13.98	180	8039	2.315	ug/L	98

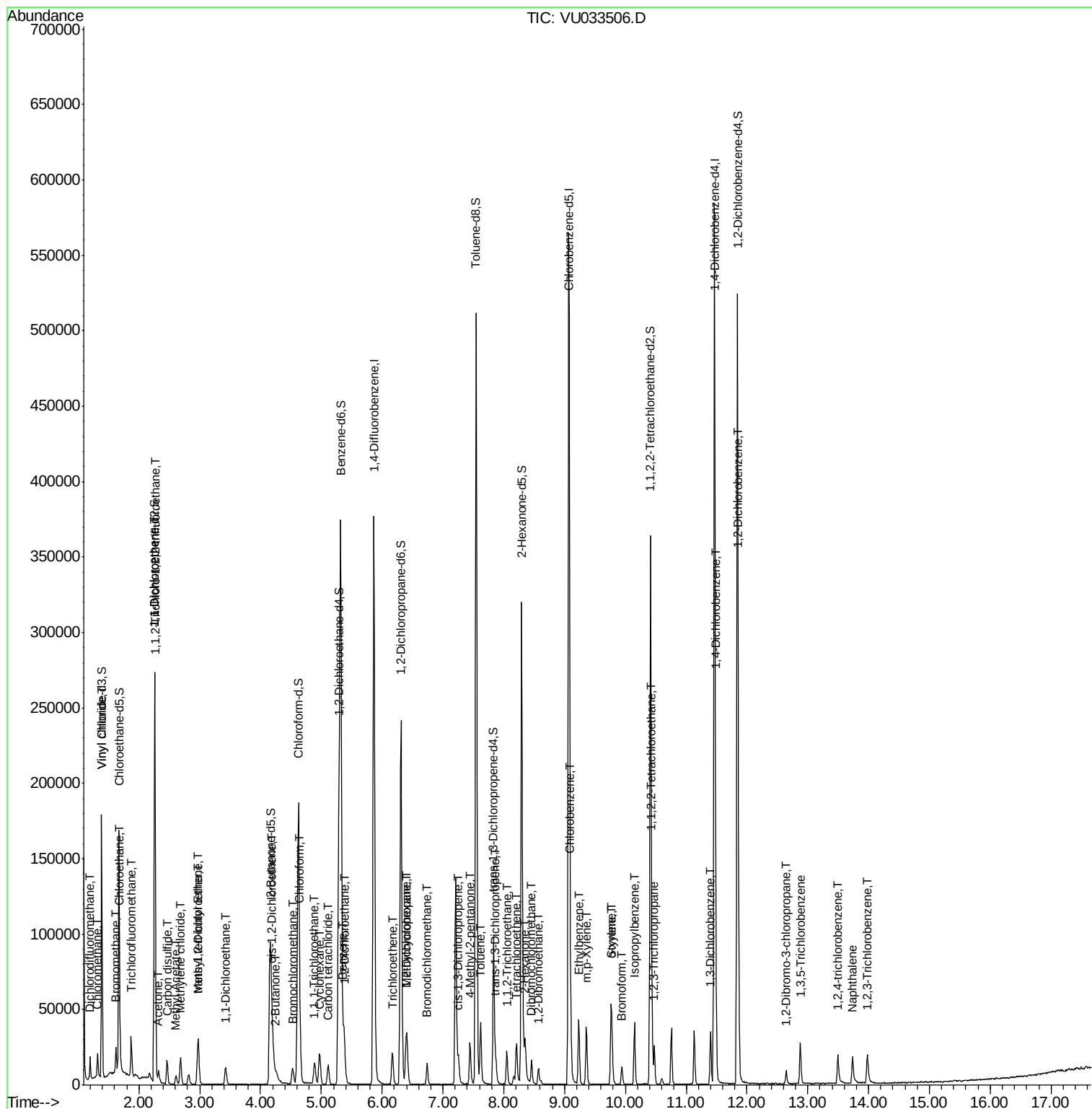
(#) = qualifier out of range (m) = manual integration (+) = signals summed

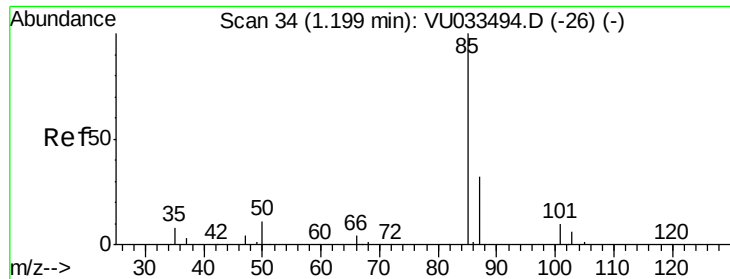
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#2

Dichlorodifluoromethane

Concen: 2.929 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

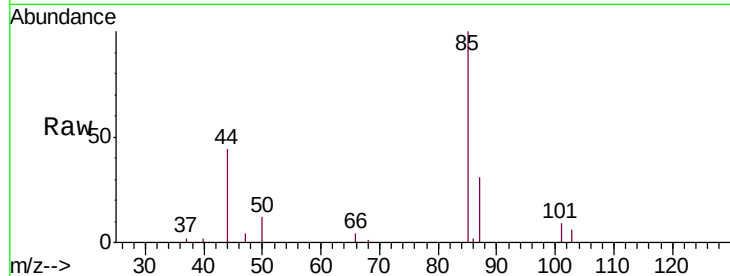
MDL06

Tgt Ion: 85 Resp: 8752

Ion Ratio Lower Upper

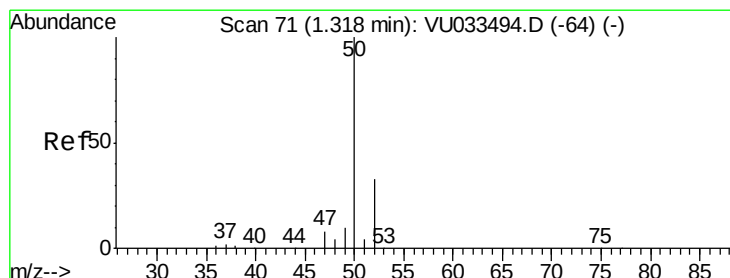
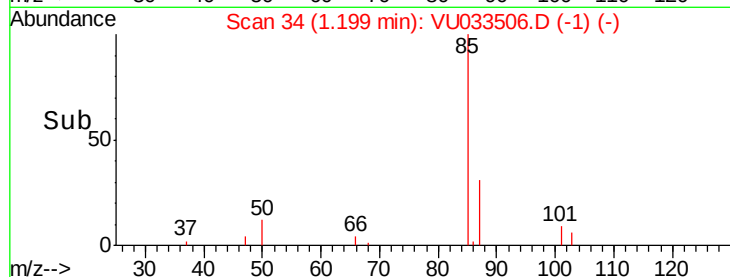
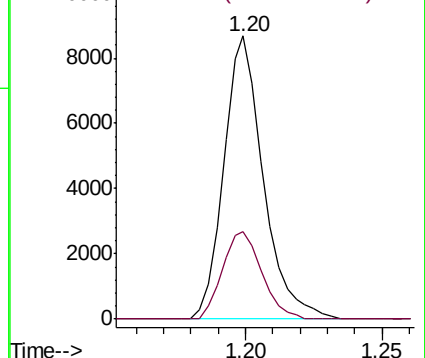
85 100

87 30.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 3.185 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033506.D

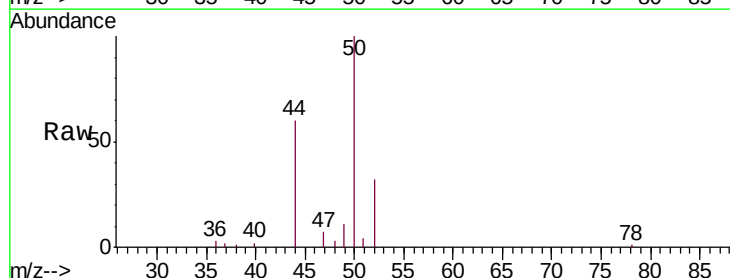
Acq: 30 Jul 2019 20:43

Tgt Ion: 50 Resp: 9585

Ion Ratio Lower Upper

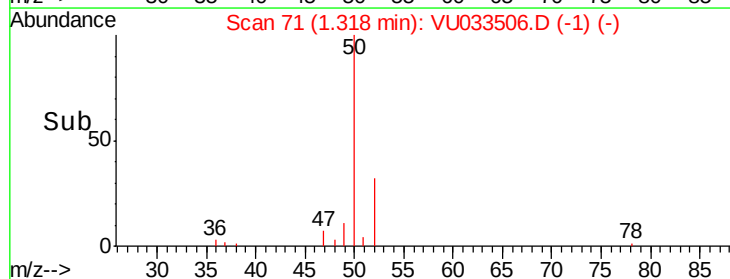
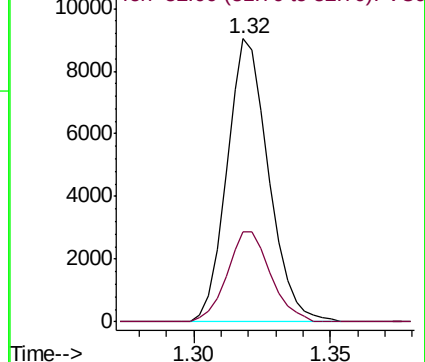
50 100

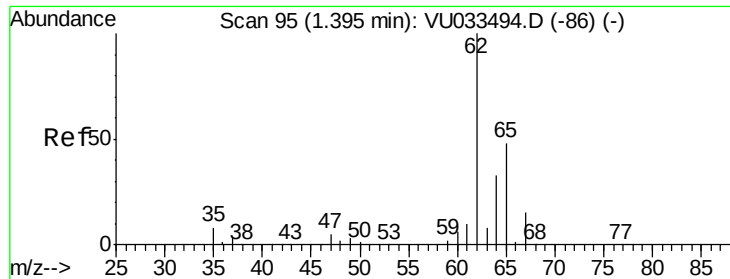
52 32.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 3.267 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

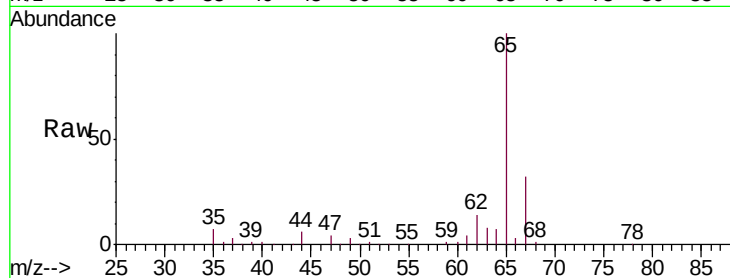
MDL06

Tgt Ion: 62 Resp: 10540

Ion Ratio Lower Upper

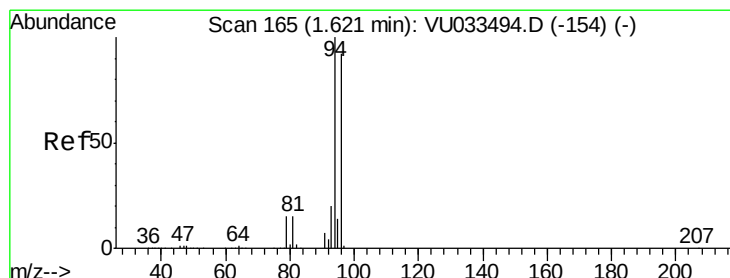
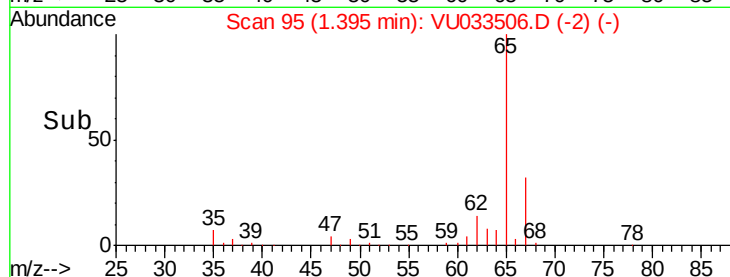
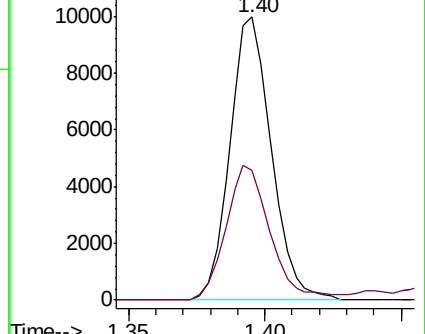
62 100

64 45.7 23.4 43.4#



Abundance Ion 62.00 (61.70 to 62.70): VU033494.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033494.D (-86) (-)



#6

Bromomethane

Concen: 2.481 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033506.D

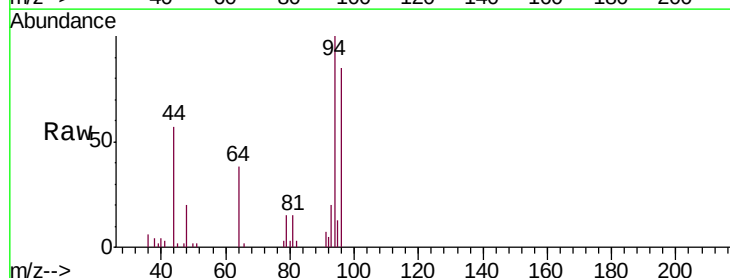
Acq: 30 Jul 2019 20:43

Tgt Ion: 94 Resp: 7063

Ion Ratio Lower Upper

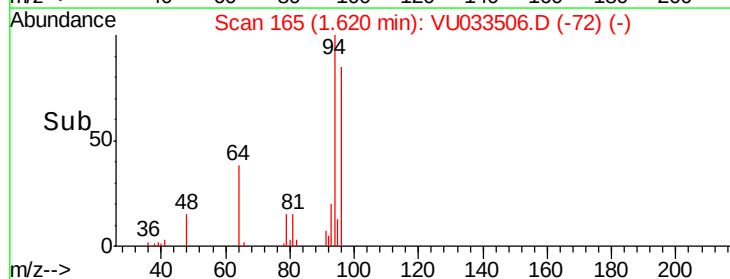
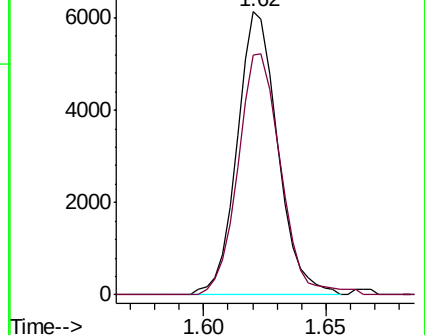
94 100

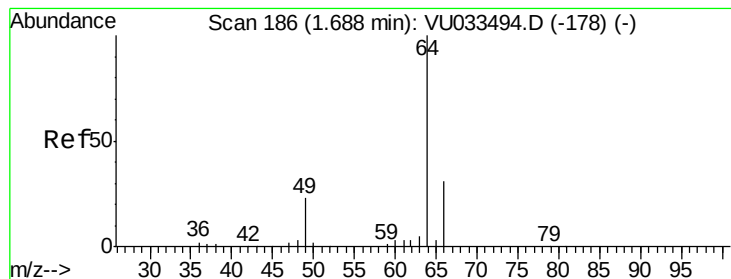
96 84.5 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033494.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033494.D (-154) (-)





#8

Chloroethane

Concen: 4.358 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

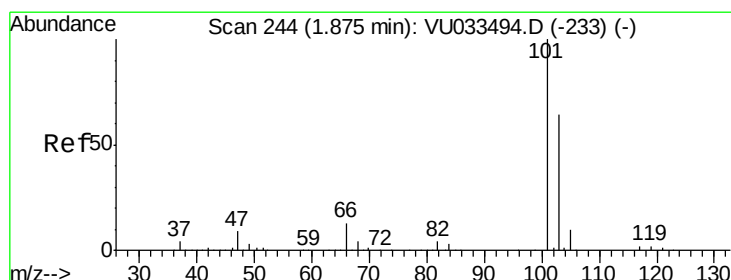
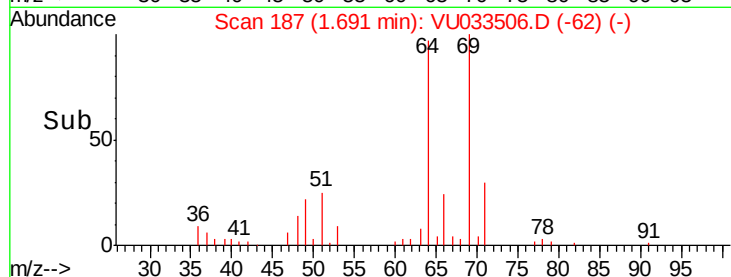
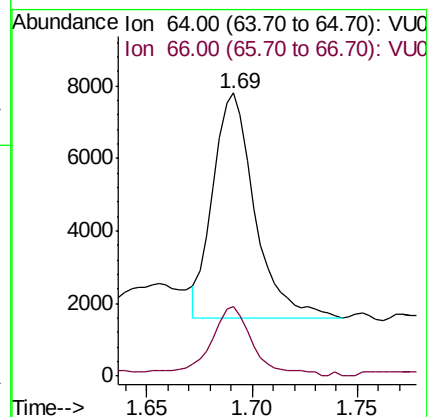
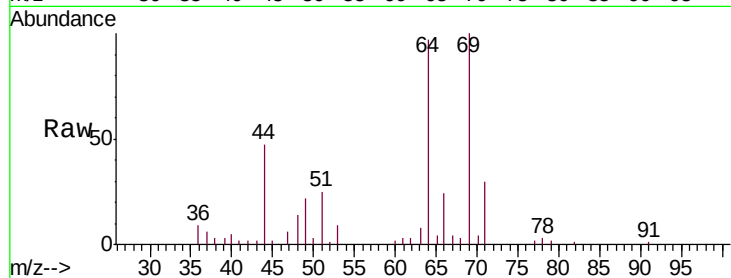
MDL06

Tgt Ion: 64 Resp: 8545

Ion Ratio Lower Upper

64 100

66 24.5 21.1 39.3



#9

Trichlorofluoromethane

Concen: 3.248 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033506.D

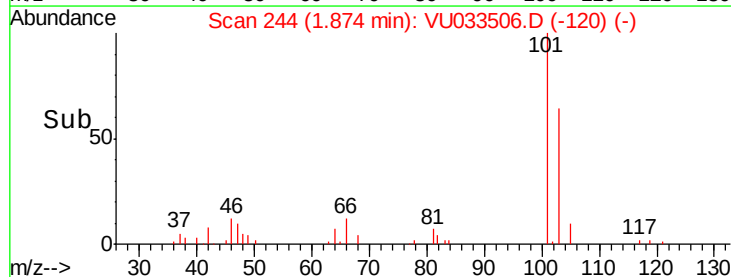
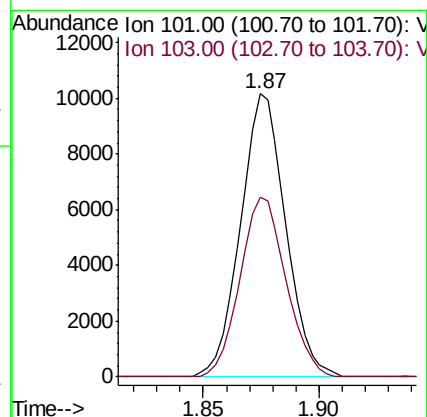
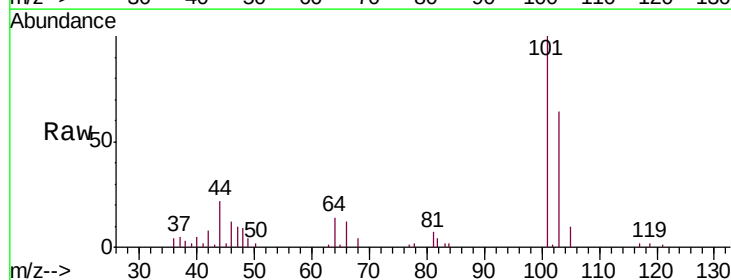
Acq: 30 Jul 2019 20:43

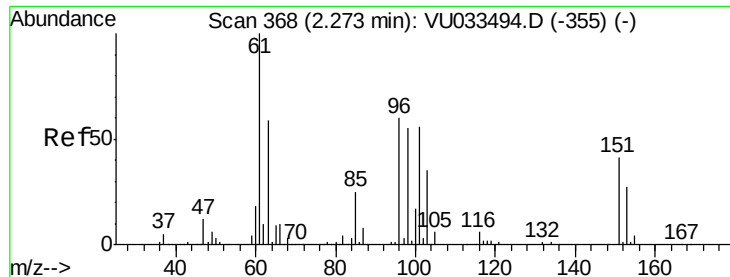
Tgt Ion: 101 Resp: 13708

Ion Ratio Lower Upper

101 100

103 64.7 51.6 77.4





#10

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

Concen: 3.425 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

MDL06

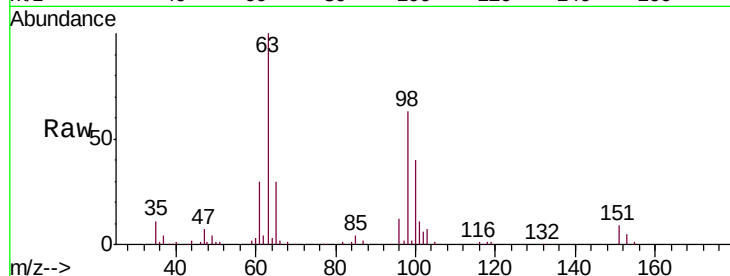
Tgt Ion:101 Resp: 7328

Ion Ratio Lower Upper

101 100

85 36.7 35.8 53.8

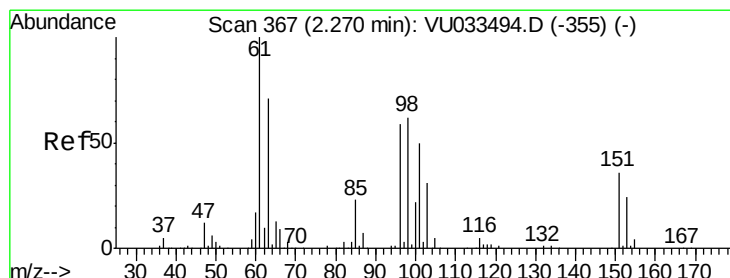
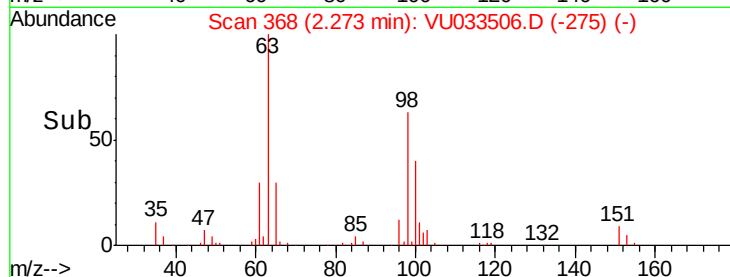
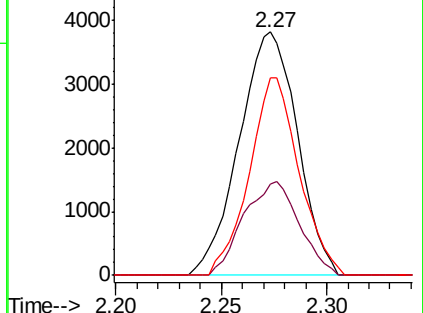
151 69.4 60.1 90.1



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: 3.481 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

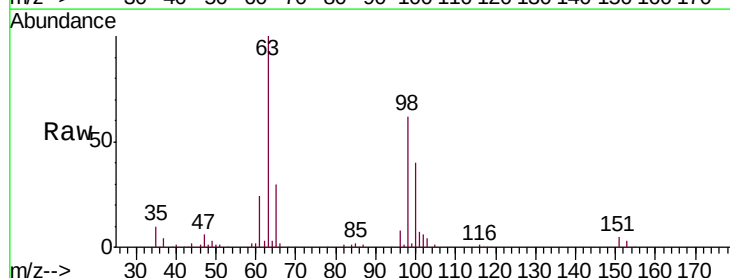
Tgt Ion: 96 Resp: 7143

Ion Ratio Lower Upper

96 100

61 292.8 119.3 221.5#

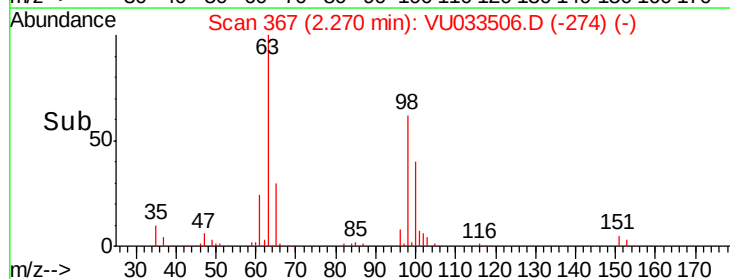
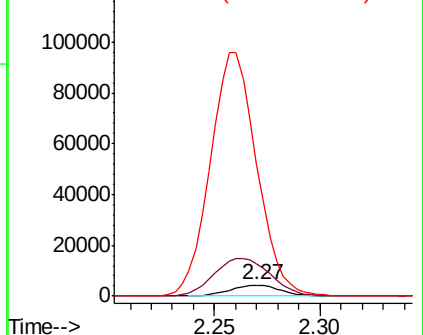
63 1198.7 86.6 160.8#

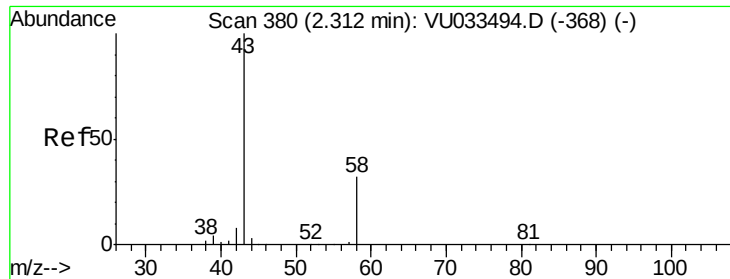


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.578 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampled :

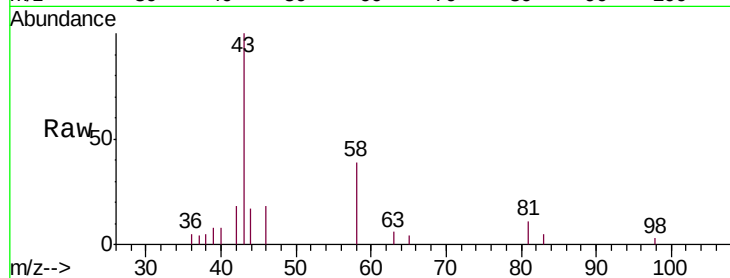
MDL06

Tgt Ion: 43 Resp: 8708

Ion Ratio Lower Upper

43 100

58 32.7 0.0 66.2



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

Ion 58.00 (57.70 to 58.70): VU033494.D (-368) (-)

2.32

4000

3000

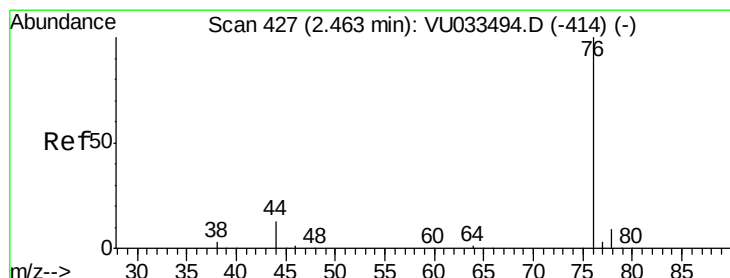
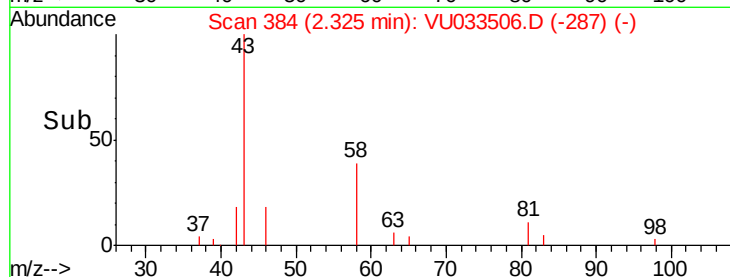
2000

1000

0

Time-->

2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 3.115 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

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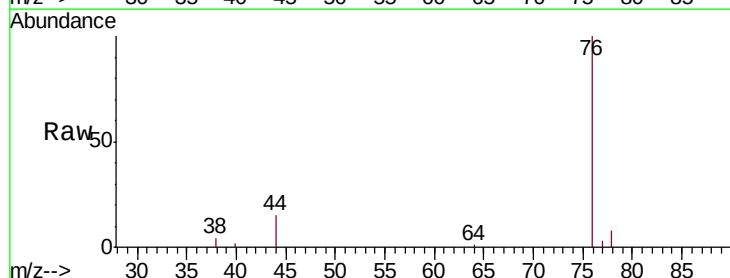
Acq: 30 Jul 2019 20:43

Tgt Ion: 76 Resp: 20047

Ion Ratio Lower Upper

76 100

78 7.9 7.4 11.0



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

Ion 78.00 (77.70 to 78.70): VU033494.D (-414) (-)

2.46

15000

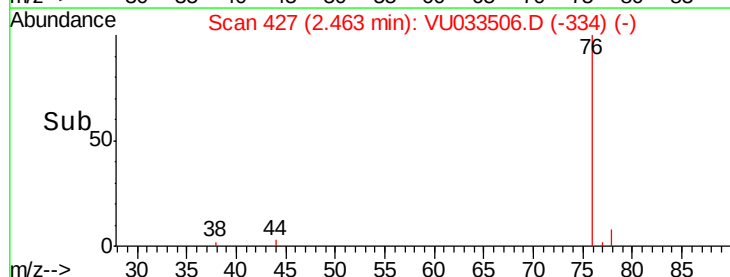
10000

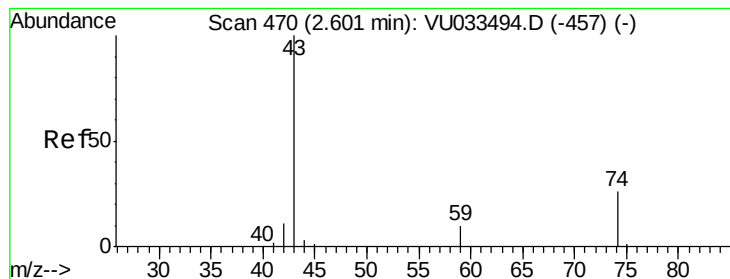
5000

0

Time-->

2.40 2.45 2.50





#15

Methyl Acetate

Concen: 3.051 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

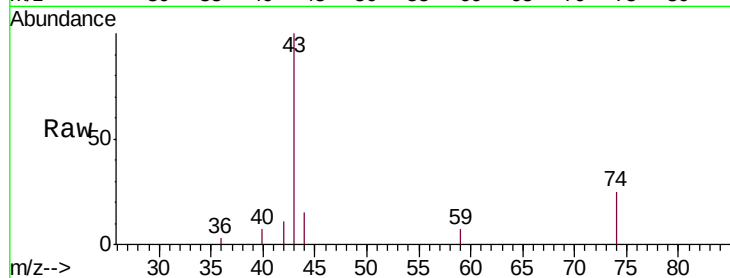
MDL06

Tgt Ion: 43 Resp: 7582

Ion Ratio Lower Upper

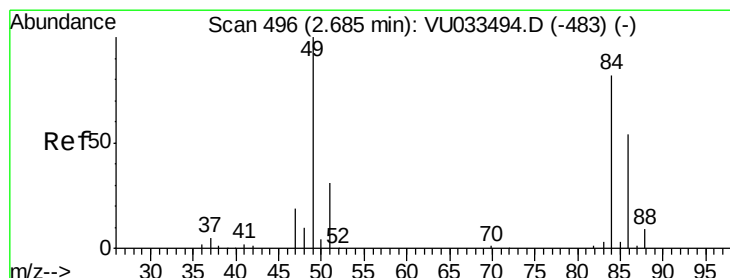
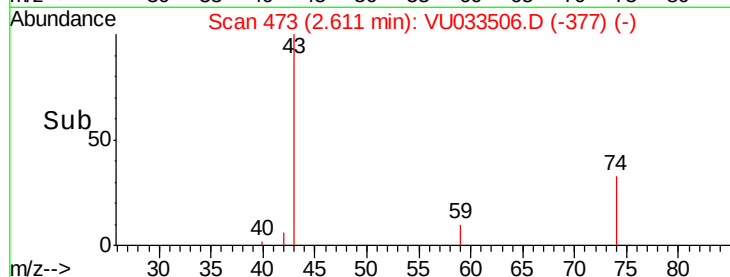
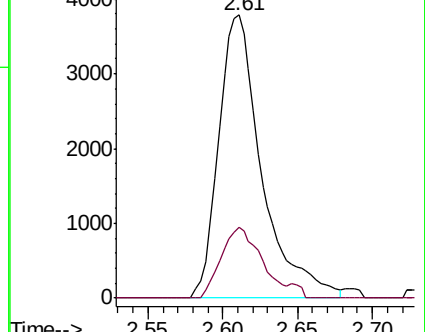
43 100

74 23.2 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VU033506.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033506.D (-377) (-)



#16

Methylene chloride

Concen: 3.254 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

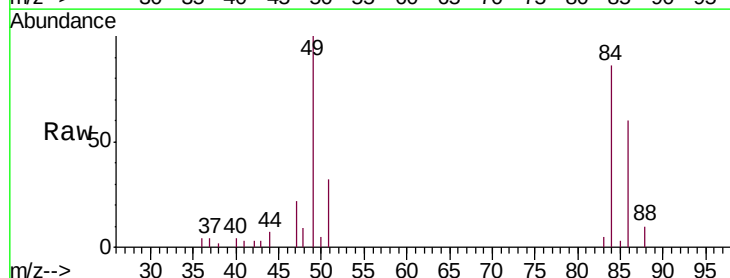
Tgt Ion: 84 Resp: 7627

Ion Ratio Lower Upper

84 100

86 70.1 45.7 84.9

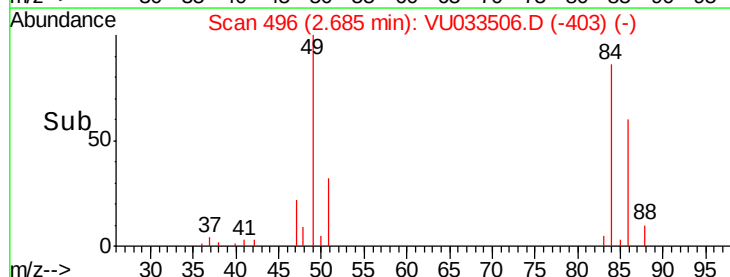
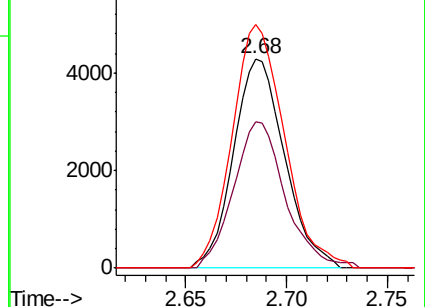
49 116.2 85.0 158.0

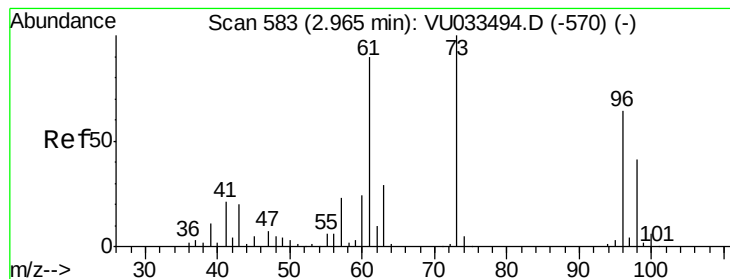


Abundance Ion 84.00 (83.70 to 84.70): VU033506.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU033506.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033506.D (-403) (-)





#17

trans-1,2-Dichloroethene

Concen: 3.070 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

MDL06

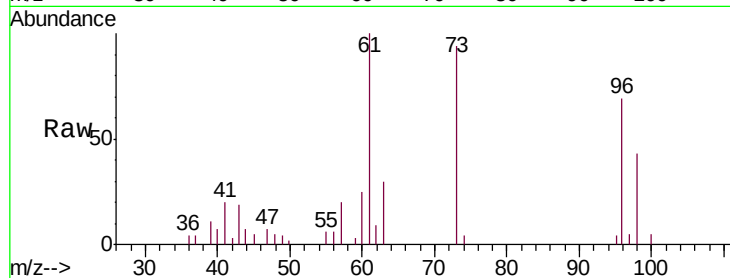
Tgt Ion: 96 Resp: 6599

Ion Ratio Lower Upper

96 100

61 145.8 98.3 182.5

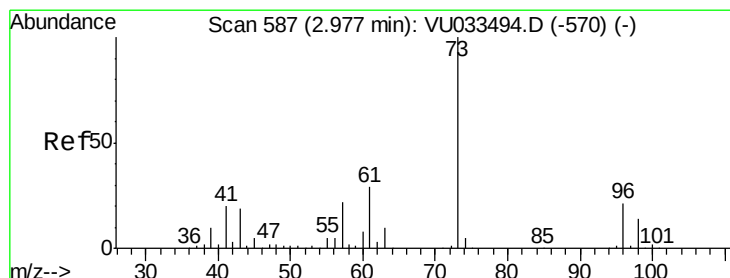
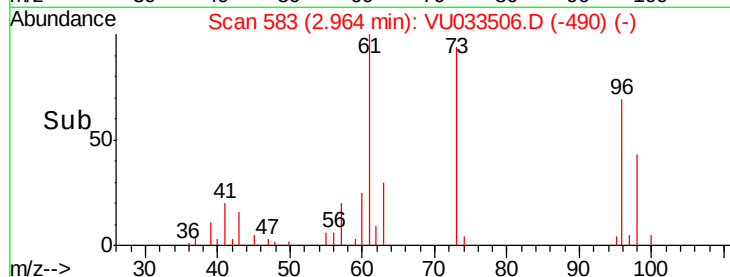
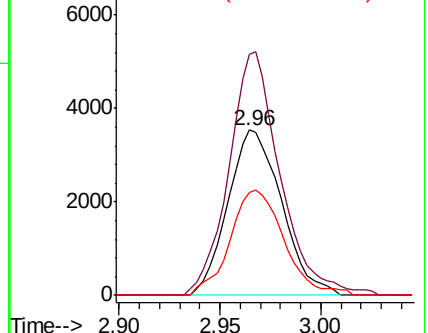
98 62.3 44.3 82.3



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

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

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



#18

Methyl tert-butyl Ether

Concen: 2.954 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

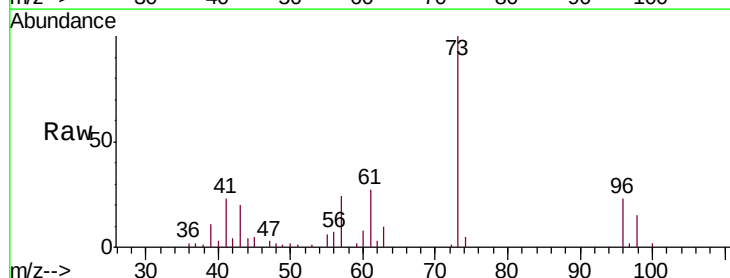
Tgt Ion: 73 Resp: 19363

Ion Ratio Lower Upper

73 100

43 20.4 15.4 23.2

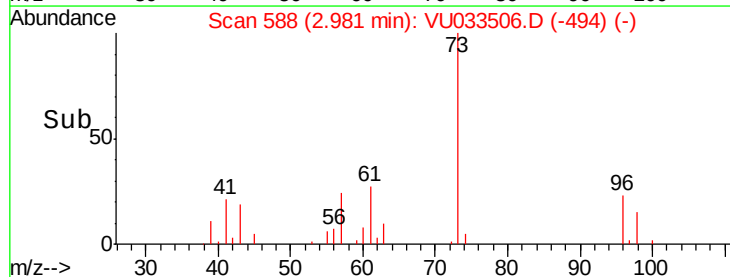
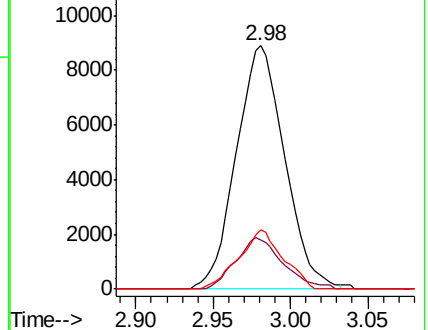
57 22.2 17.4 26.2

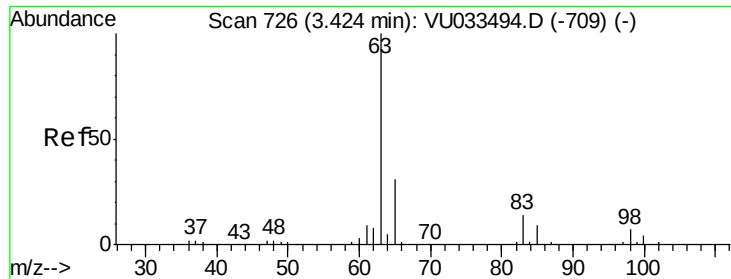


Abundance Ion 73.00 (72.70 to 73.70): VU033494.D (-570) (-)

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

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

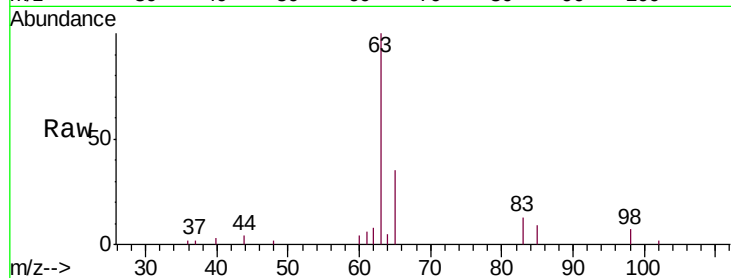




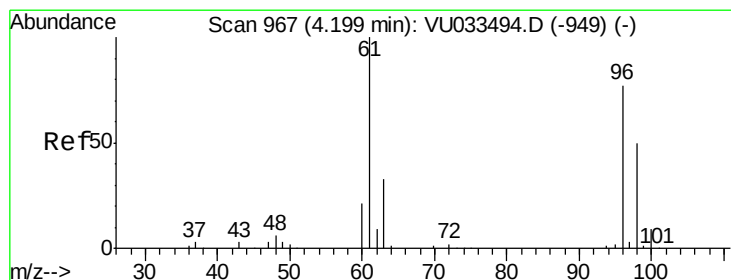
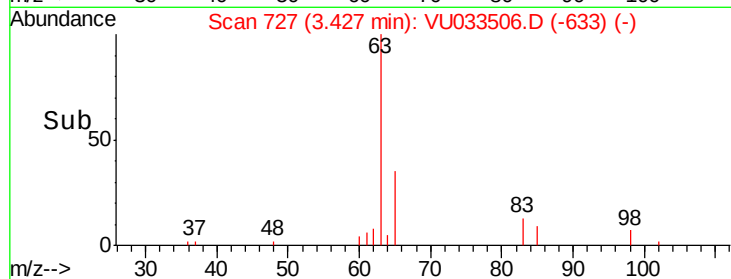
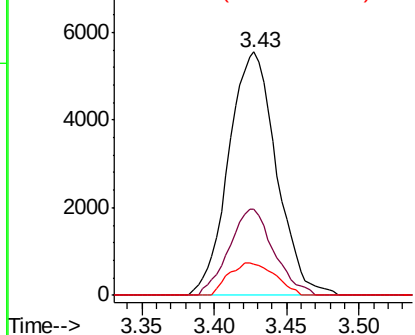
#19
 1,1-Dichloroethane
 Concen: 3.149 ug/L
 RT: 3.43 min Scan# 727
 Delta R.T. 0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tgt Ion: 63 Resp: 12706
 Ion Ratio Lower Upper
 63 100
 65 35.4 22.0 40.8
 83 12.7 9.5 17.7

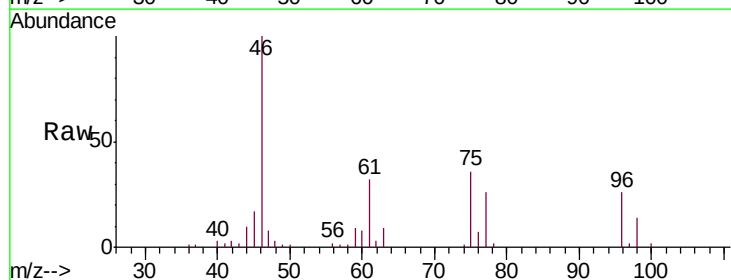


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

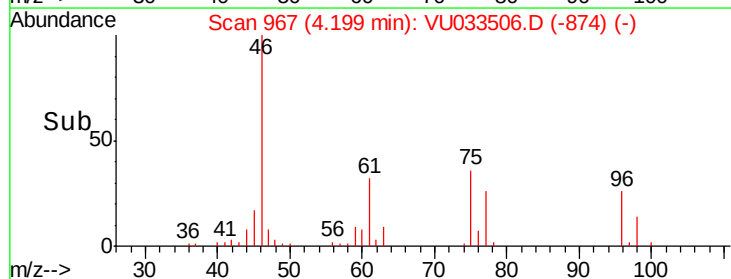
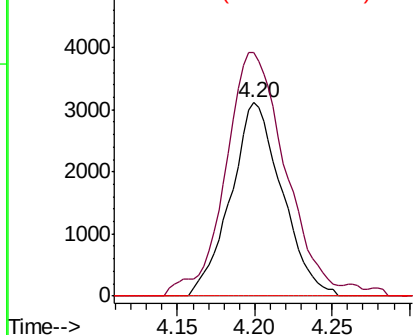


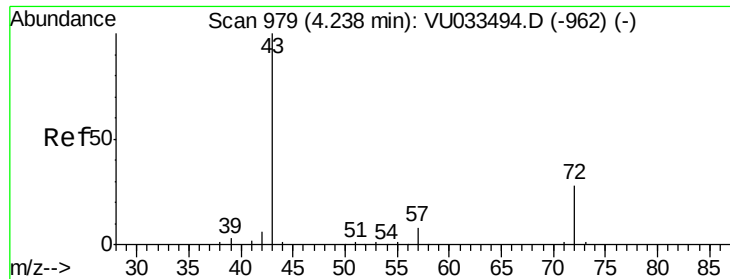
#20
 cis-1,2-Dichloroethene
 Concen: 2.981 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Tgt Ion: 96 Resp: 7193
 Ion Ratio Lower Upper
 96 100
 61 125.7 91.3 169.6
 68 0.0 0.0 0.0



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

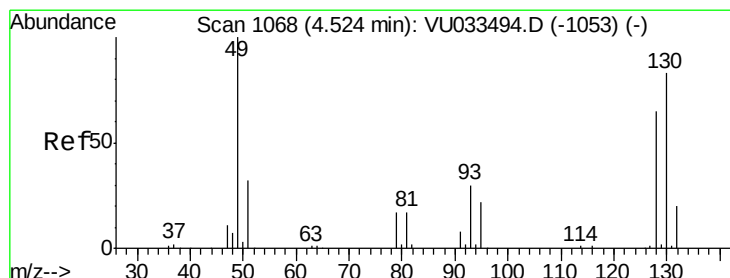
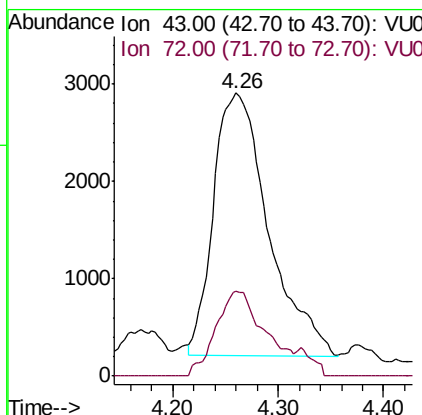
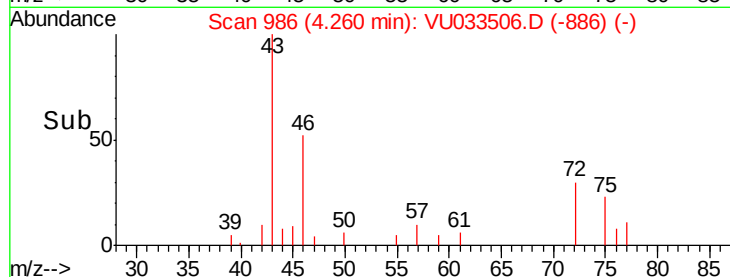
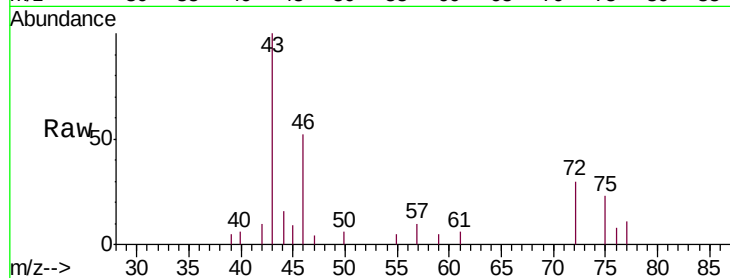




#22
 2-Butanone
 Concen: 5.245 ug/L
 RT: 4.26 min Scan# 986
 Delta R.T. 0.02 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

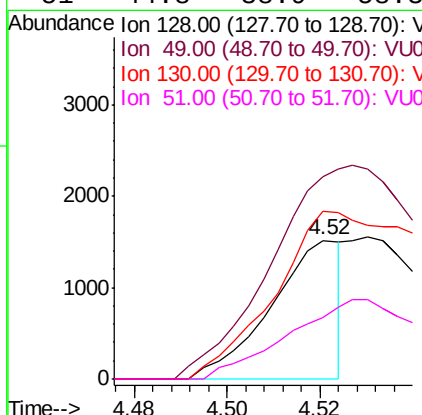
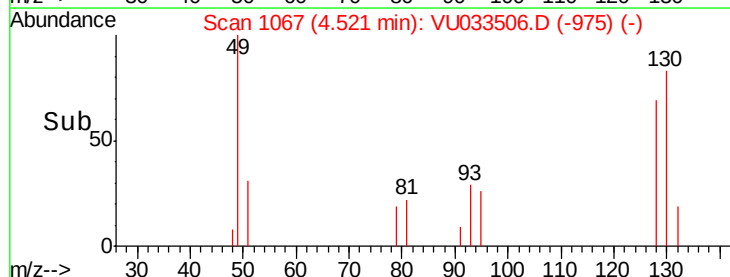
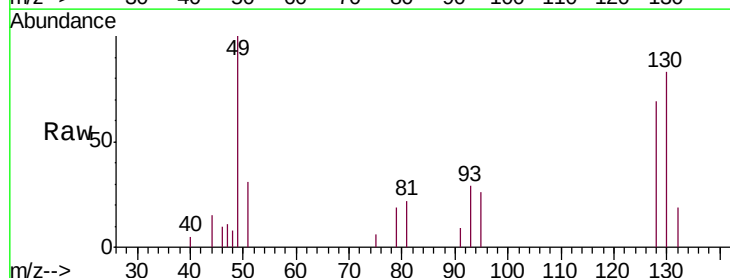
Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

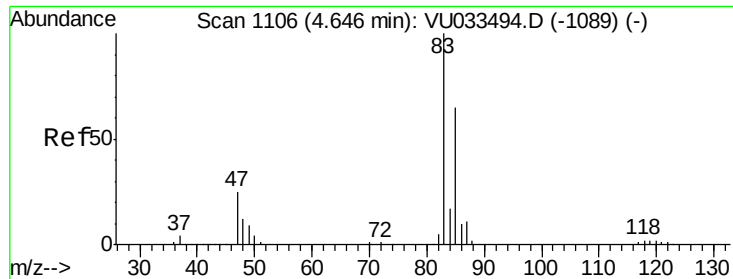
Tgt Ion: 43 Resp: 9774
 Ion Ratio Lower Upper
 43 100
 72 27.5 14.2 42.6



#23
 Bromochloromethane
 Concen: 1.266 ug/L
 RT: 4.52 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Tgt Ion: 128 Resp: 1594
 Ion Ratio Lower Upper
 128 100
 49 145.6 108.4 201.2
 130 121.3 89.7 166.5
 51 44.8 38.9 58.3

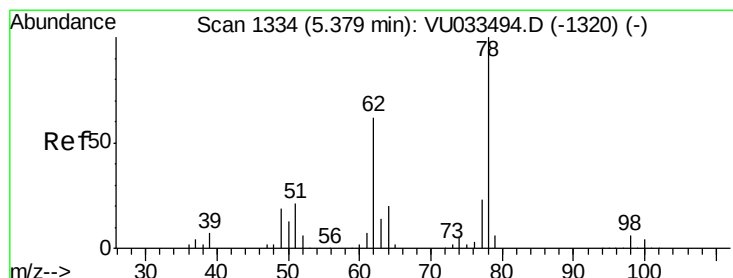
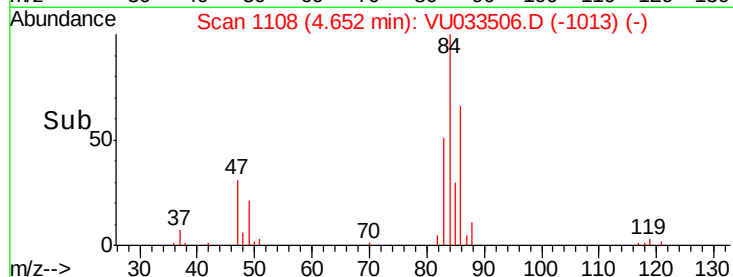
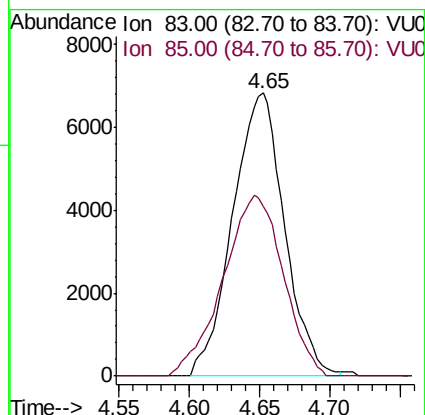
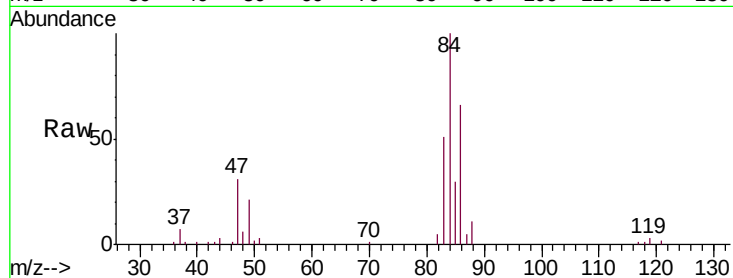




#25
Chloroform
Concen: 4.129 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

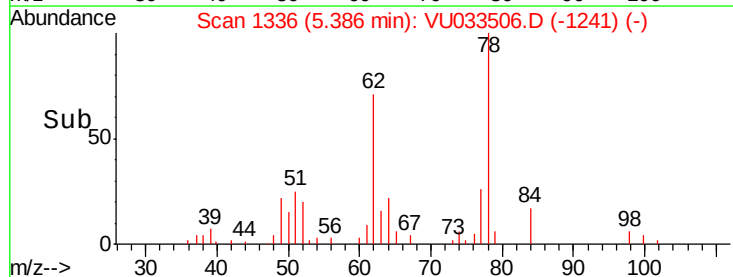
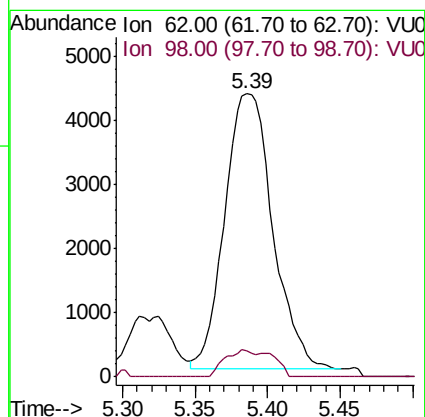
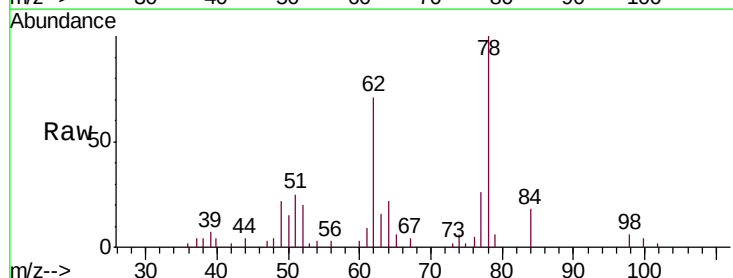
Instrument :
MSVOA_U
ClientSampleId :
MDL06

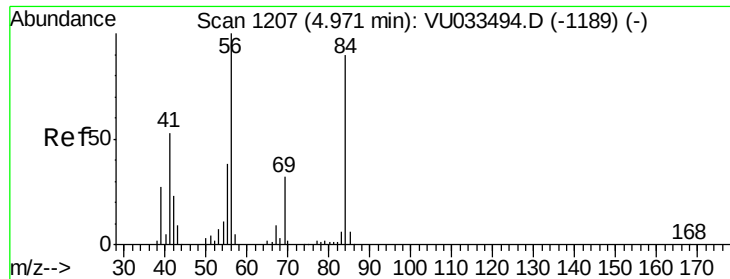
Tgt Ion: 83 Resp: 17532
Ion Ratio Lower Upper
83 100
85 60.0 45.6 84.8



#27
1,2-Dichloroethane
Concen: 3.014 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Tgt Ion: 62 Resp: 9855
Ion Ratio Lower Upper
62 100
98 9.1 7.2 10.8

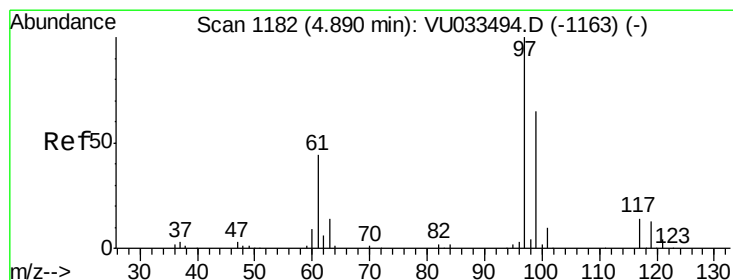
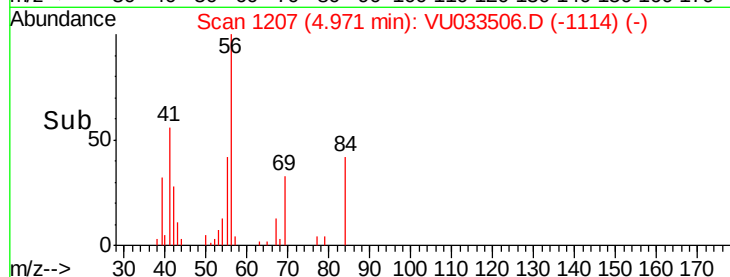
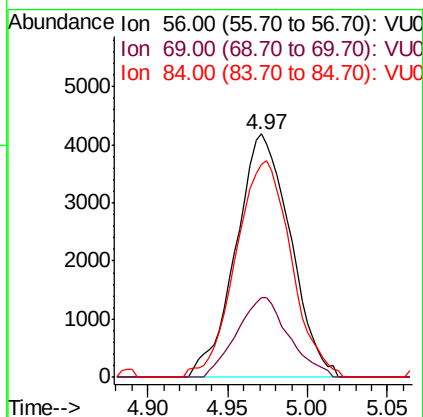
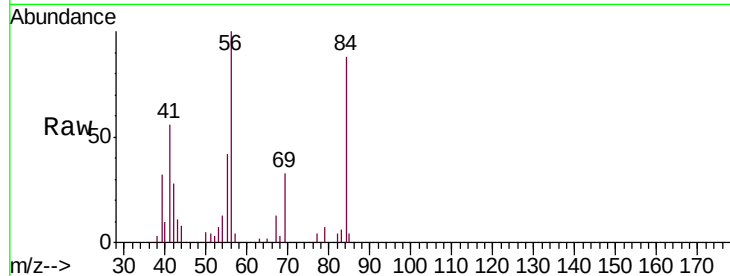




#29
Cyclohexane
Concen: 2.875 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

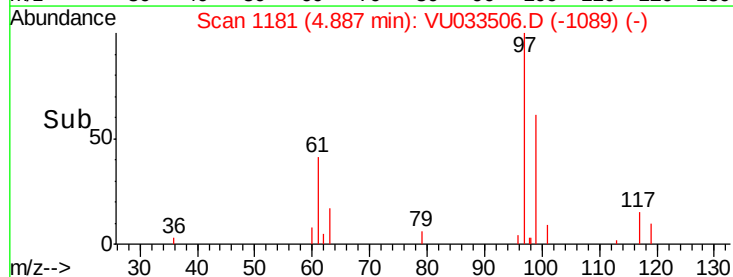
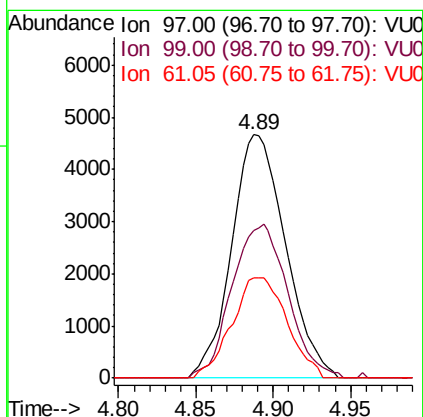
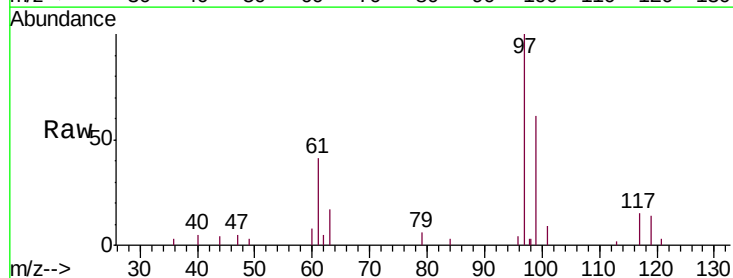
Instrument :
MSVOA_U
ClientSampleId :
MDL06

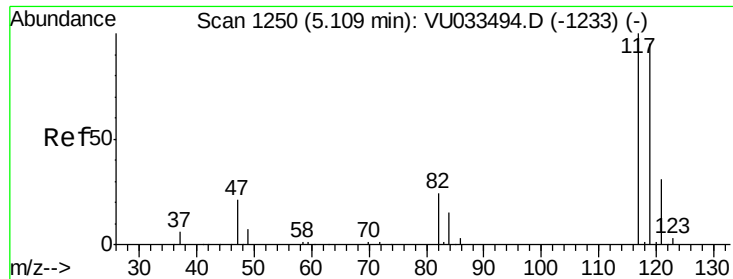
Tgt Ion: 56 Resp: 9762
Ion Ratio Lower Upper
56 100
69 31.4 25.0 37.6
84 89.7 71.6 107.4



#30
1,1,1-Trichloroethane
Concen: 3.156 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Tgt Ion: 97 Resp: 11306
Ion Ratio Lower Upper
97 100
99 65.6 51.1 76.7
61 42.3 35.5 53.3





#31

Carbon tetrachloride

Concen: 3.015 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

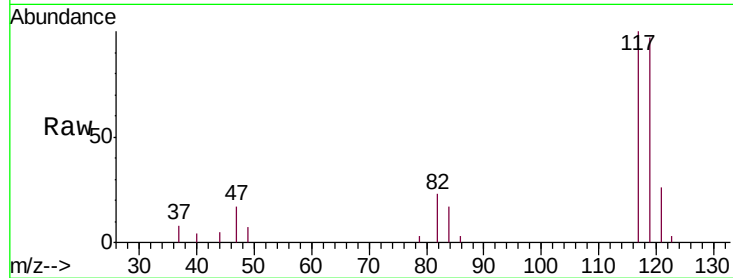
MDL06

Tgt Ion:117 Resp: 9405

Ion Ratio Lower Upper

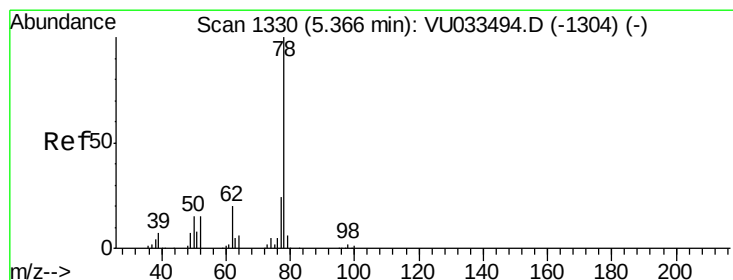
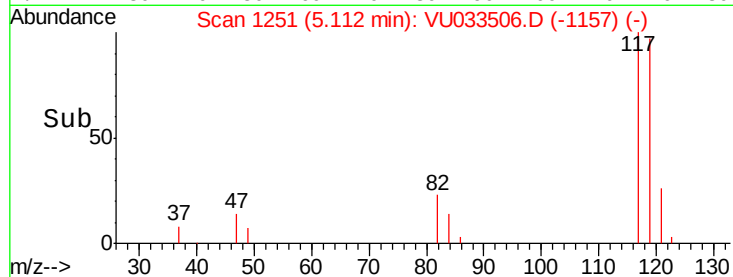
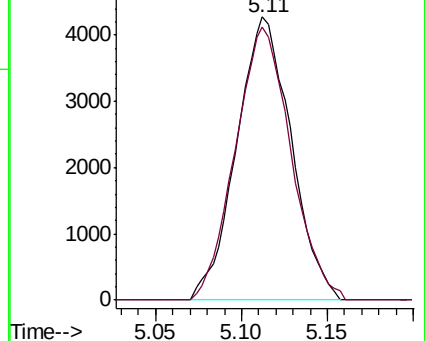
117 100

119 98.2 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: 3.209 ug/L

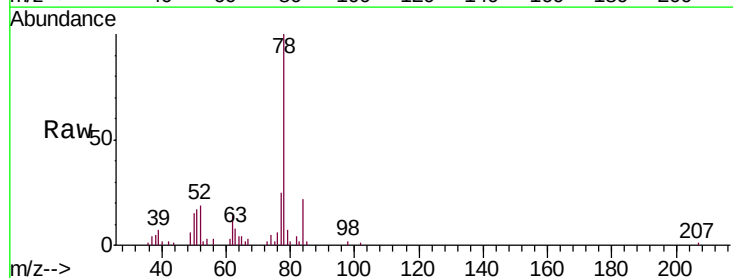
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Tgt Ion: 78 Resp: 28825



Abundance Ion 78.00 (77.70 to 78.70): VU0

15000

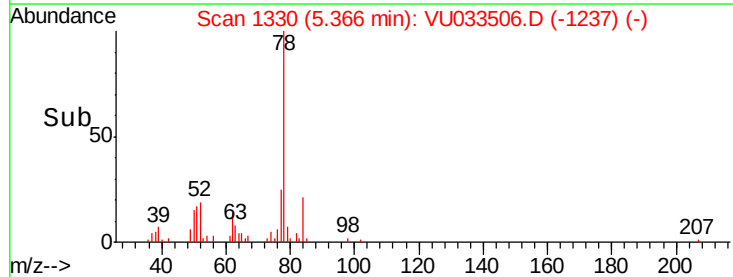
10000

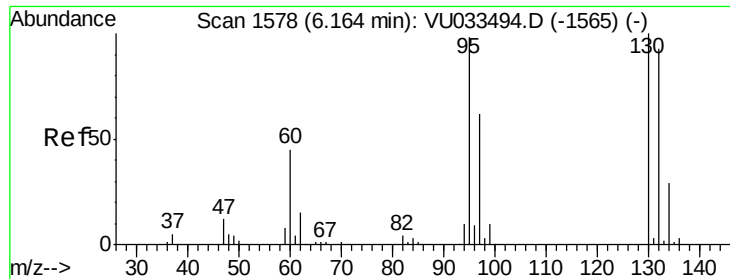
5000

0

5.30 5.35 5.40 5.45

Time-->





#34

Trichloroethene

Concen: 3.049 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tgt Ion: 95 Resp: 7223

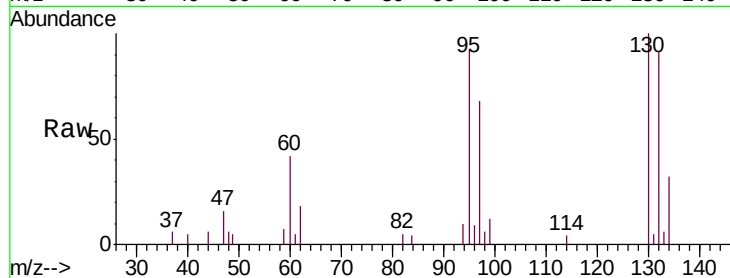
Ion Ratio Lower Upper

95 100

97 73.8 44.7 83.1

132 99.3 66.8 124.0

130 108.7 71.6 133.0

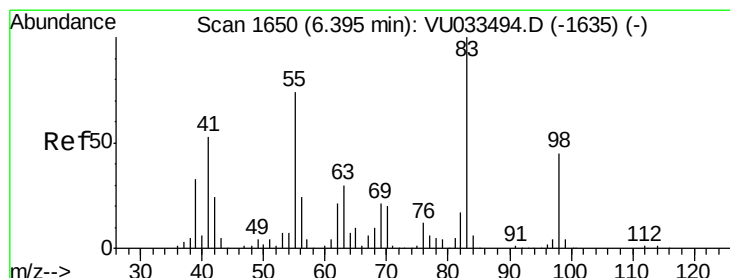
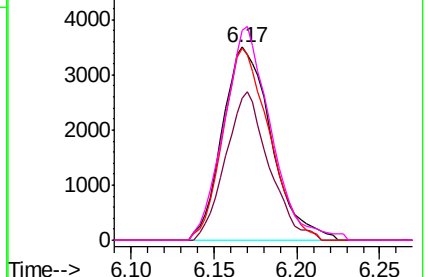
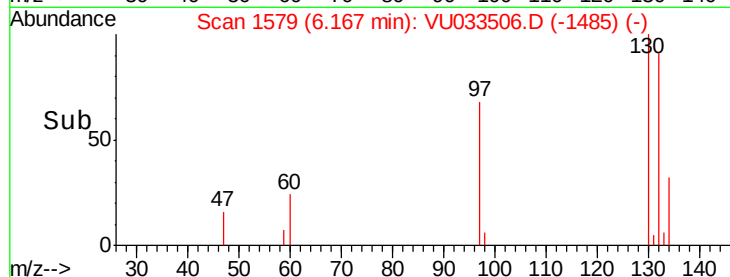


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 2.823 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

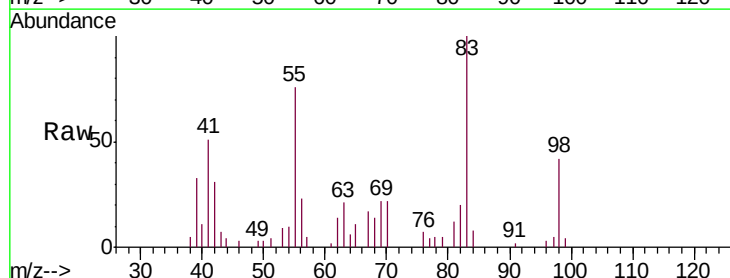
Tgt Ion: 83 Resp: 10438

Ion Ratio Lower Upper

83 100

55 73.8 60.2 90.4

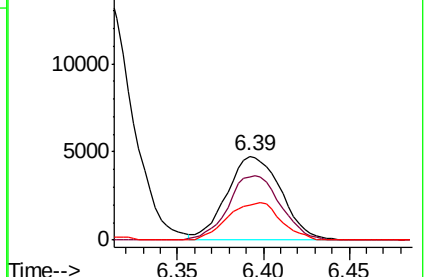
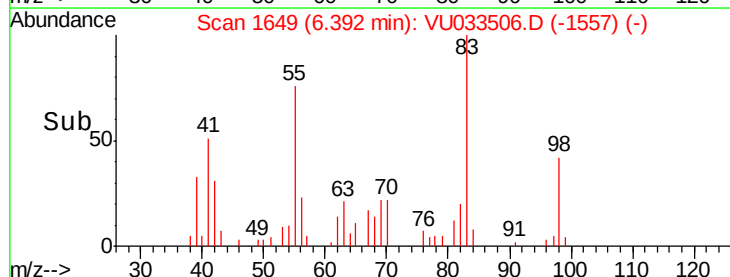
98 43.8 36.5 54.7

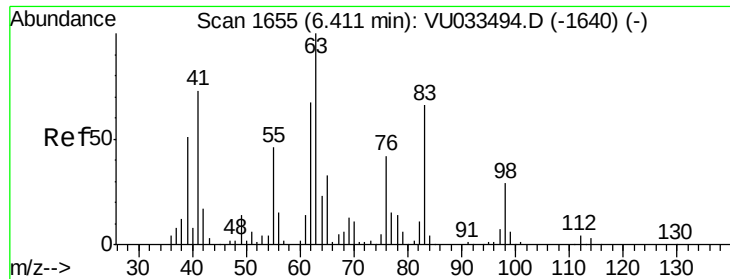


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

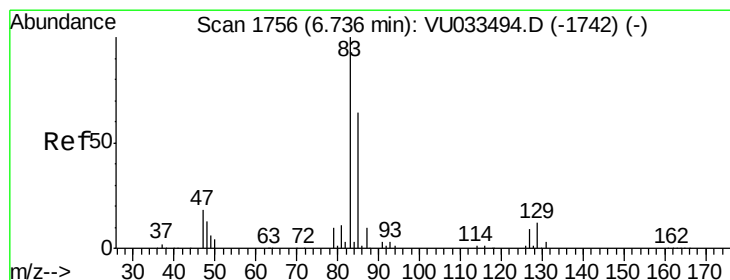
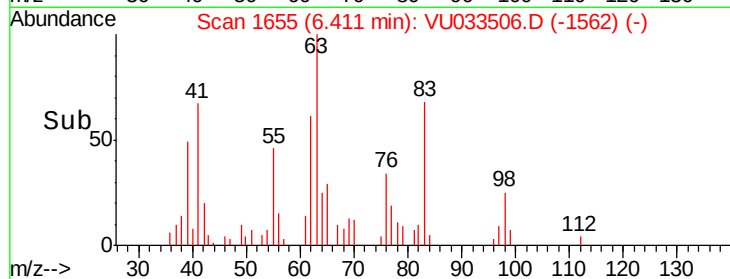
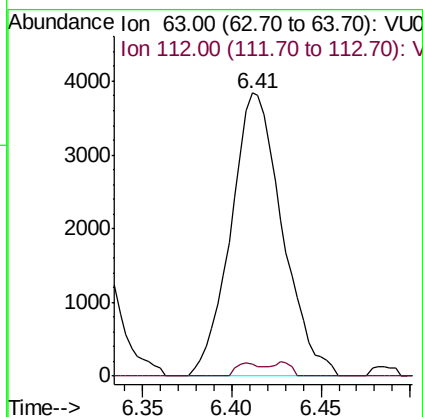
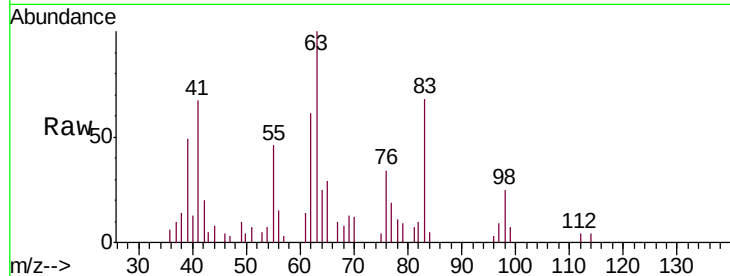




#37
 1,2-Dichloropropane
 Concen: 3.205 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

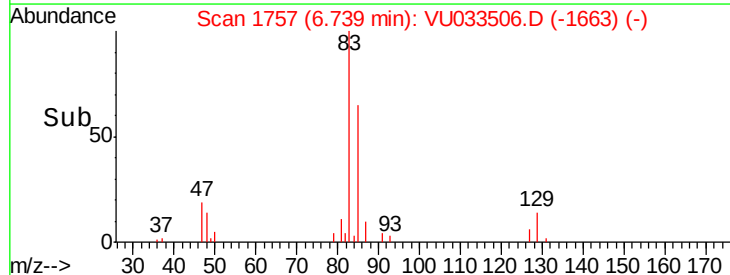
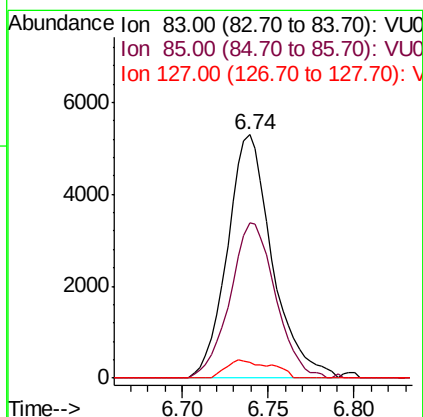
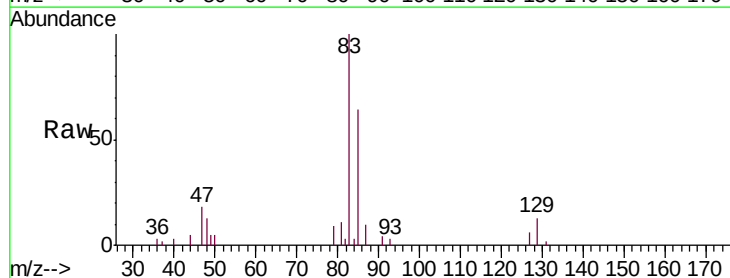
Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

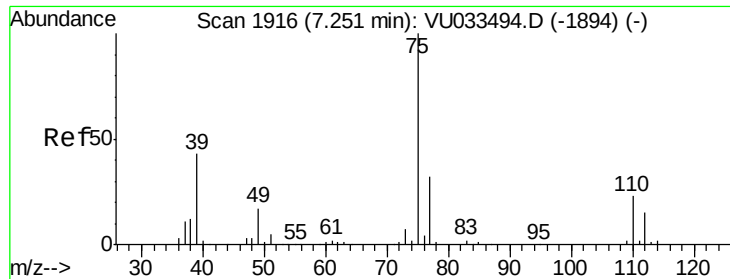
Tgt Ion: 63 Resp: 7704
 Ion Ratio Lower Upper
 63 100
 112 2.5 3.0 4.6#



#38
 Bromodichloromethane
 Concen: 3.099 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Tgt Ion: 83 Resp: 9632
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.1 83.9
 127 6.3 7.2 10.8#

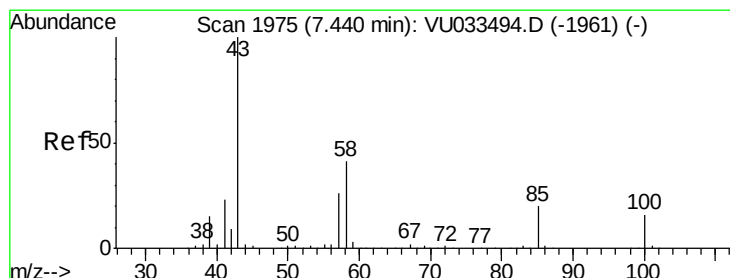
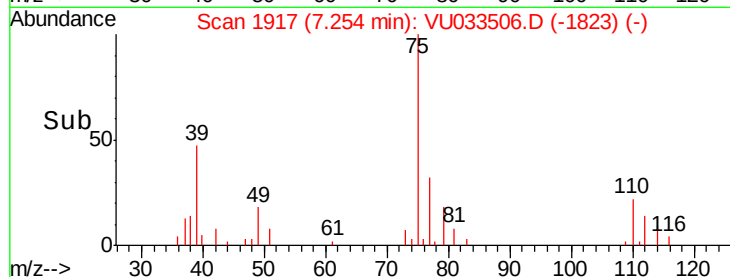
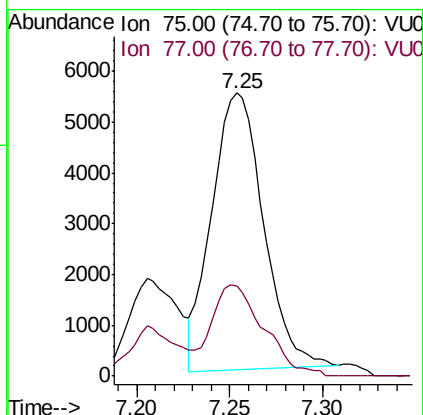
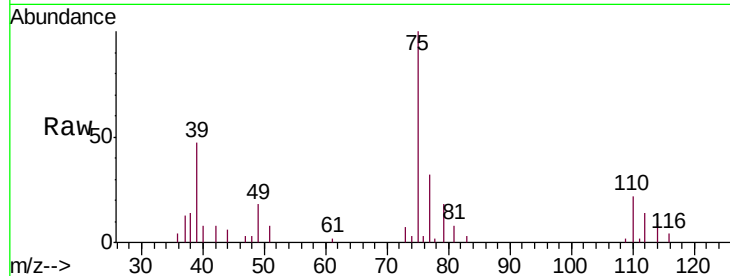




#39
 cis-1,3-Dichloropropene
 Concen: 2.820 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

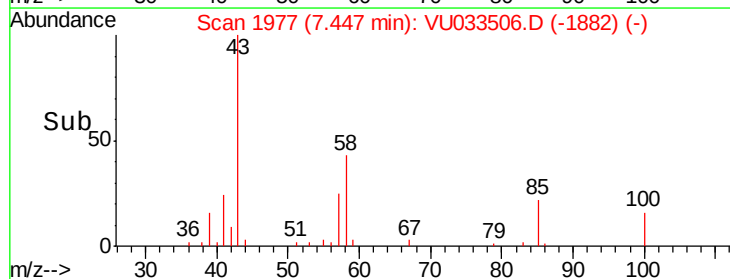
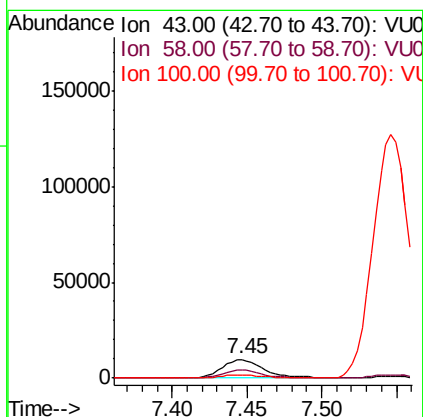
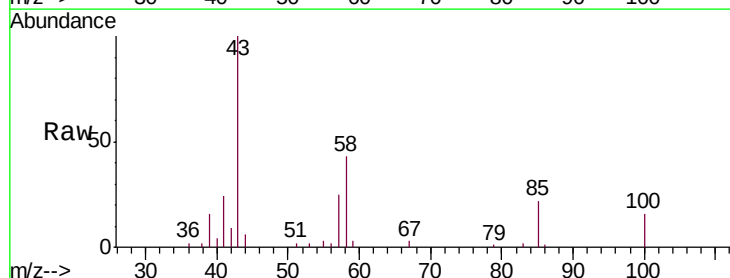
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

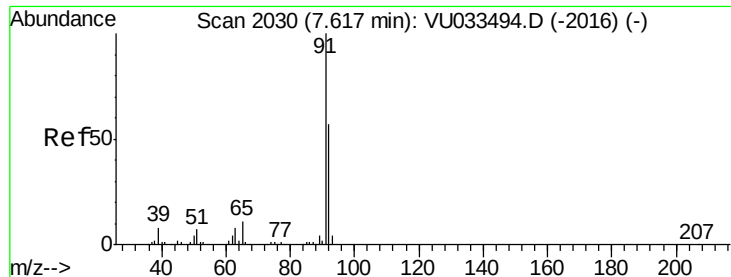
Tgt Ion: 75 Resp: 10581
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 5.671 ug/L
 RT: 7.45 min Scan# 1977
 Delta R.T. 0.01 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Tgt Ion: 43 Resp: 18825
 Ion Ratio Lower Upper
 43 100
 58 40.1 32.8 49.2
 100 16.6 12.9 19.3





#42

Toluene

Concen: 3.127 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

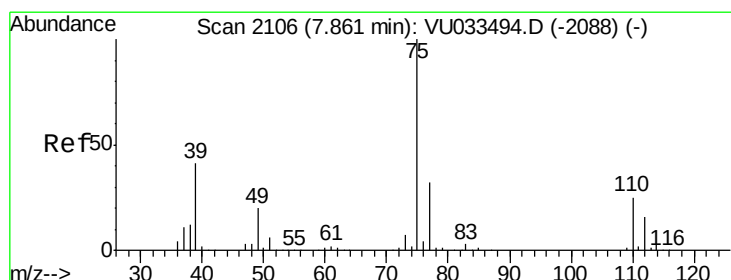
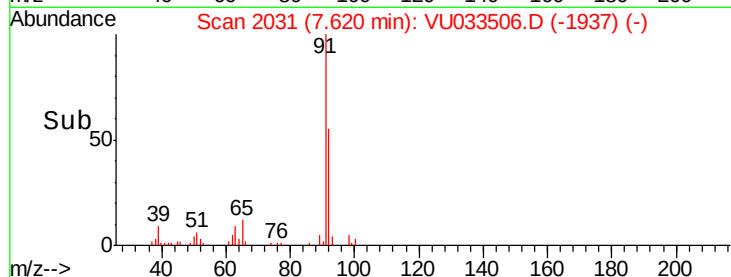
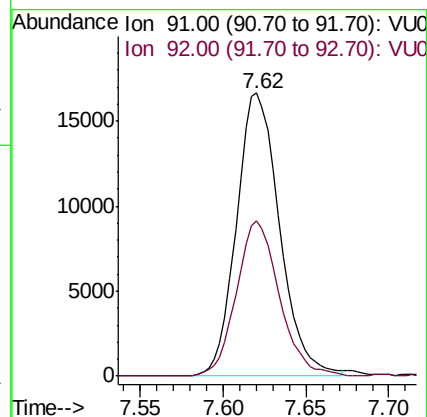
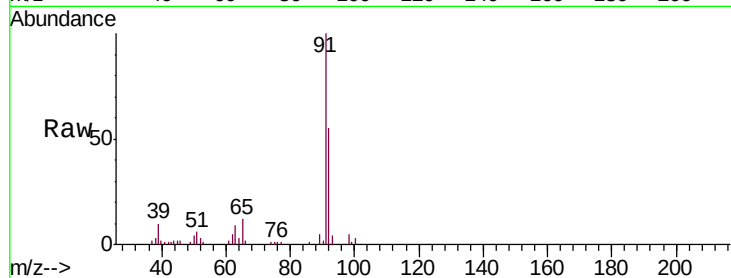
MDL06

Tgt Ion: 91 Resp: 30195

Ion Ratio Lower Upper

91 100

92 55.0 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 3.717 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033506.D

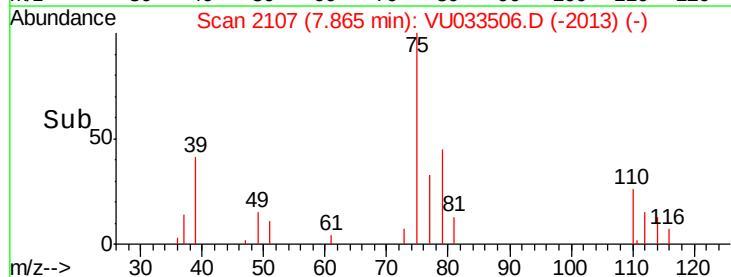
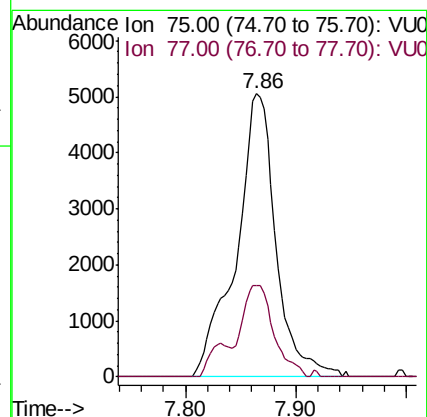
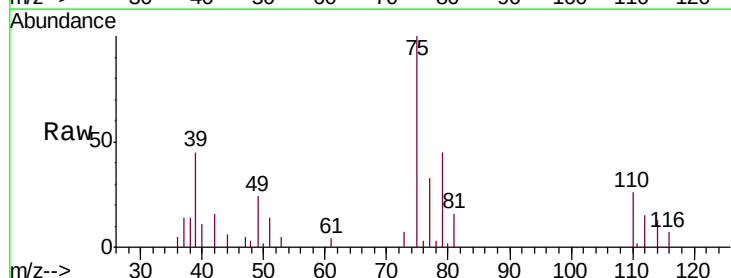
Acq: 30 Jul 2019 20:43

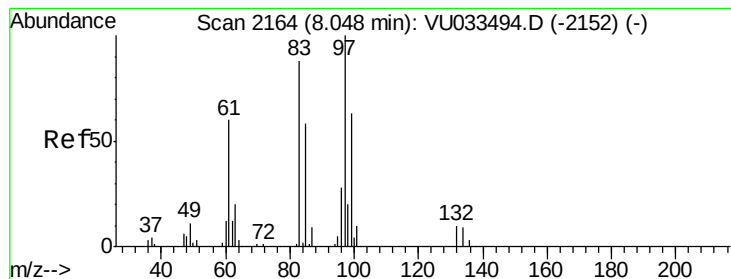
Tgt Ion: 75 Resp: 12606

Ion Ratio Lower Upper

75 100

77 32.5 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 3.237 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tgt Ion: 97 Resp: 7387

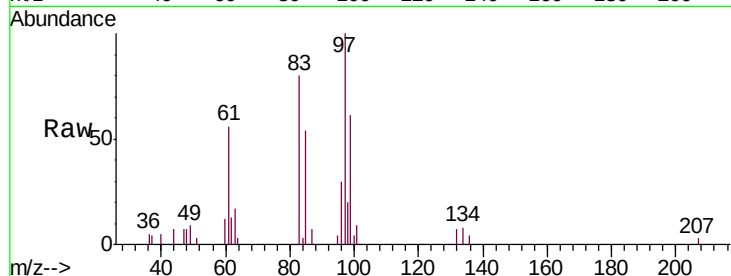
Ion Ratio Lower Upper

97 100

99 60.7 44.4 82.4

83 79.8 61.5 114.1

85 54.3 40.4 75.0



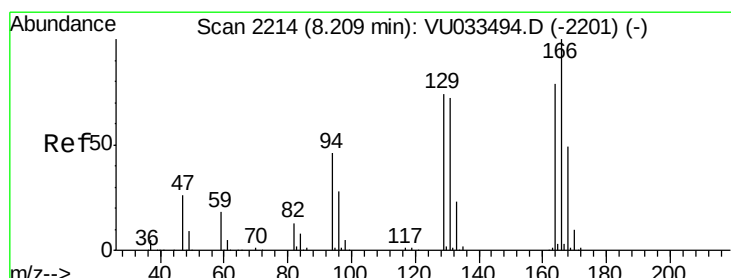
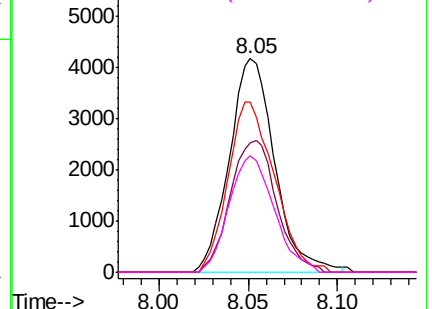
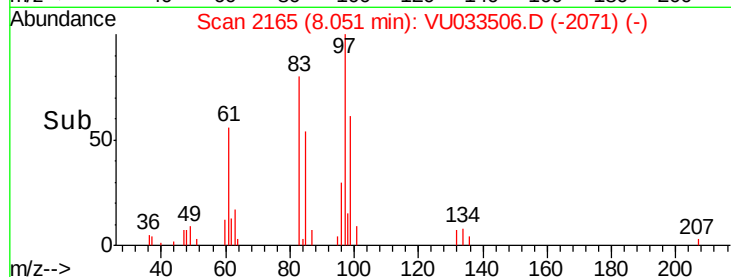
Abundance

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: 3.070 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Tgt Ion: 164 Resp: 5939

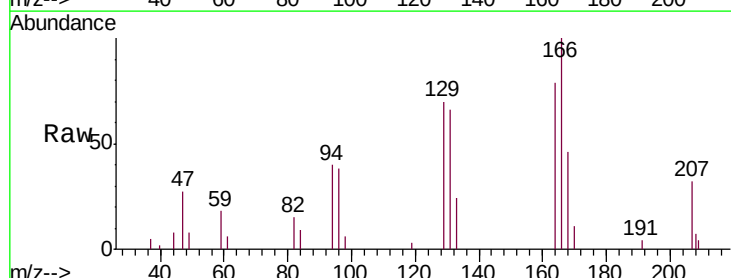
Ion Ratio Lower Upper

164 100

129 88.9 65.5 121.7

131 83.6 63.3 117.7

166 126.2 88.2 163.8



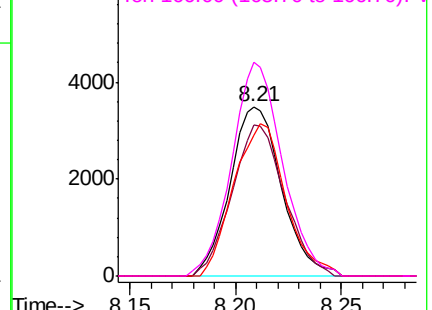
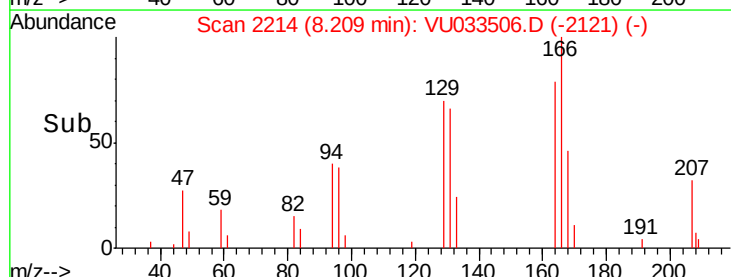
Abundance

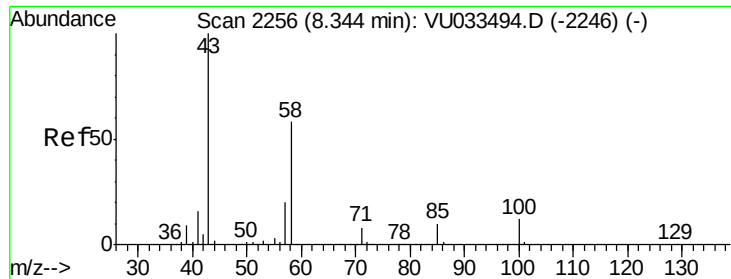
Ion 164.00 (163.70 to 164.70): V

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

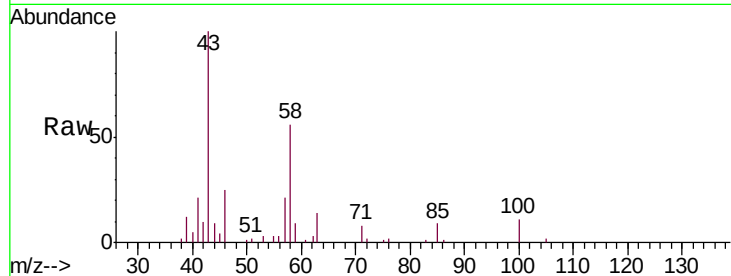




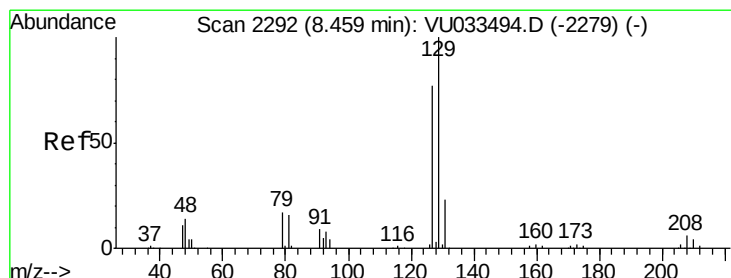
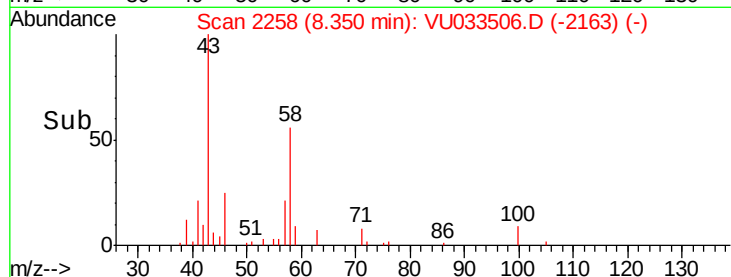
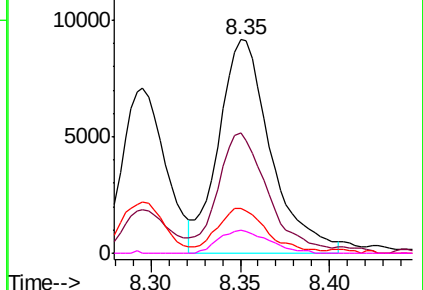
#48
2-Hexanone
Concen: 6.948 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tgt Ion:	43	Resp:	18642
Ion	Ratio	Lower	Upper
43	100		
58	49.8	45.8	68.6
57	20.4	15.8	23.6
100	10.4	9.4	14.2

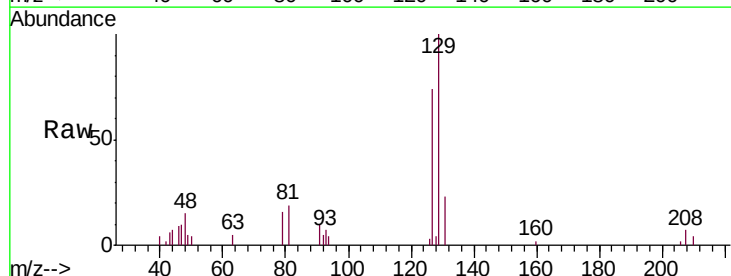


Abundance Ion 43.00 (42.70 to 43.70): VU033506.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033506.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033506.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033506.D (-2163) (-)

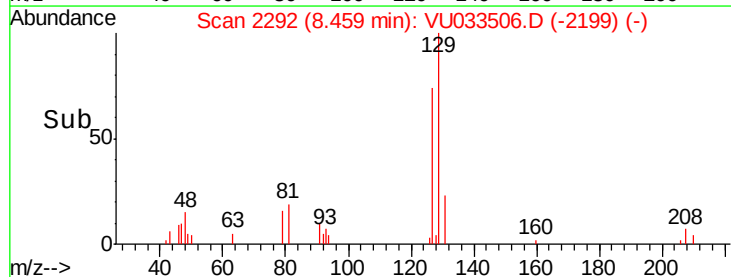
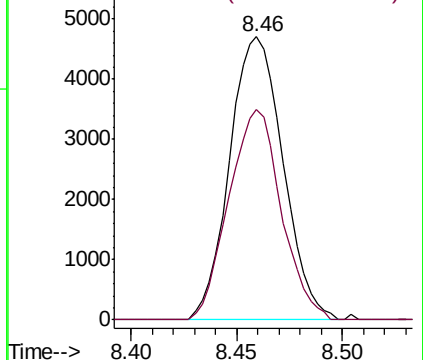


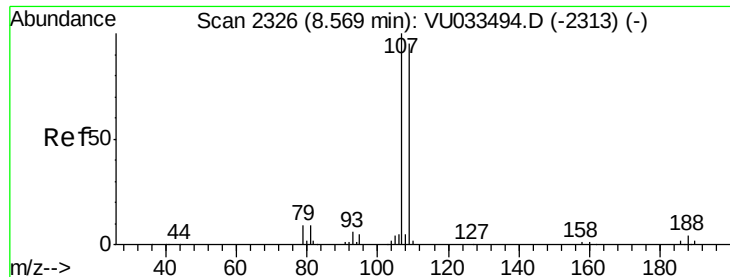
#49
Dibromochloromethane
Concen: 3.193 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Tgt Ion:	129	Resp:	8291
Ion	Ratio	Lower	Upper
129	100		
127	74.5	53.8	99.8



Abundance Ion 129.00 (128.70 to 129.70): VU033506.D (-2199) (-)
Ion 127.00 (126.70 to 127.70): VU033506.D (-2199) (-)

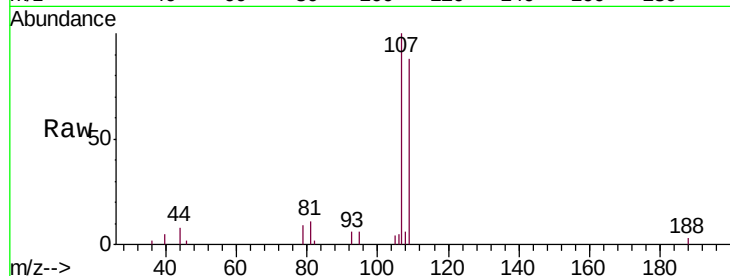




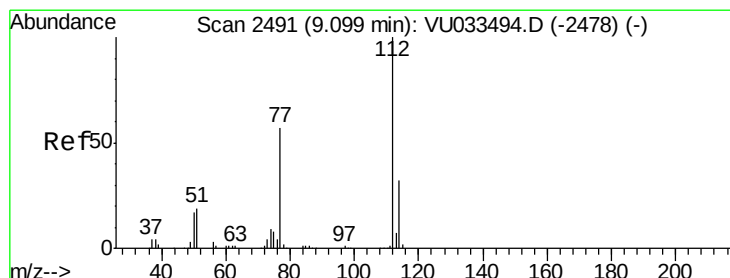
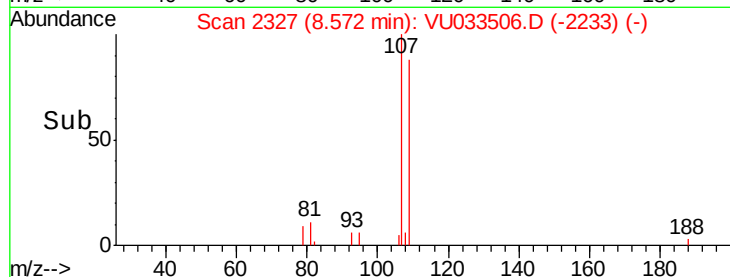
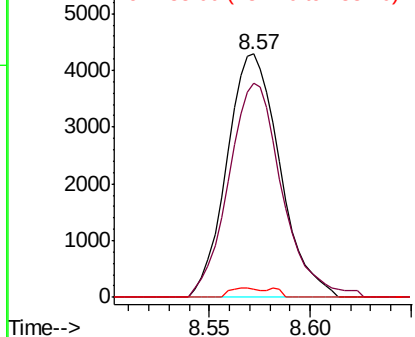
#50
1,2-Dibromoethane
Concen: 3.113 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tgt Ion:107 Resp: 7870
Ion Ratio Lower Upper
107 100
109 88.1 66.8 124.0
188 3.5 3.0 4.4

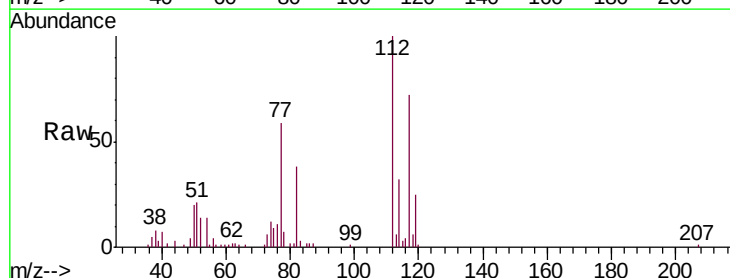


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

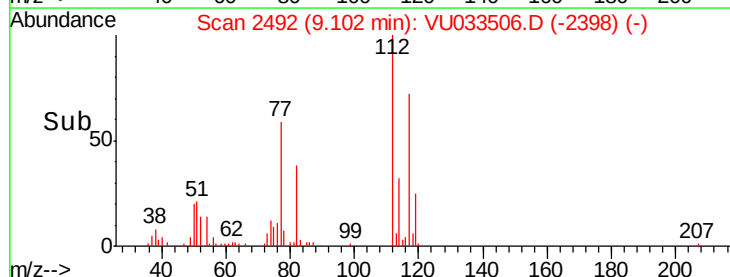
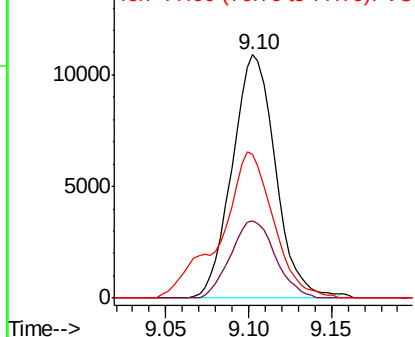


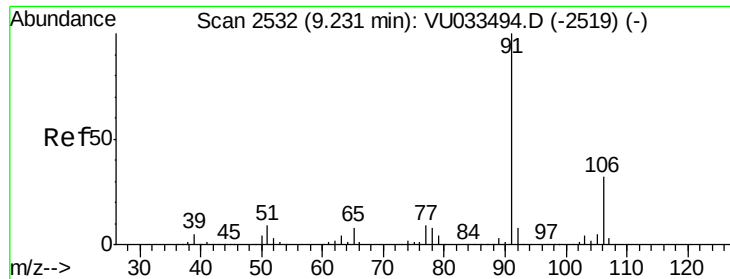
#51
Chlorobenzene
Concen: 3.129 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. 0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Tgt Ion:112 Resp: 19787
Ion Ratio Lower Upper
112 100
114 31.9 22.3 41.5
77 59.3 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: 2.928 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampled :

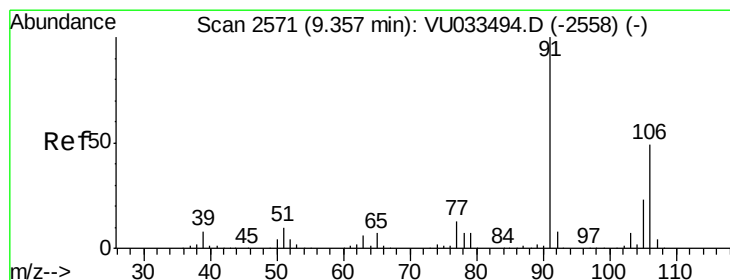
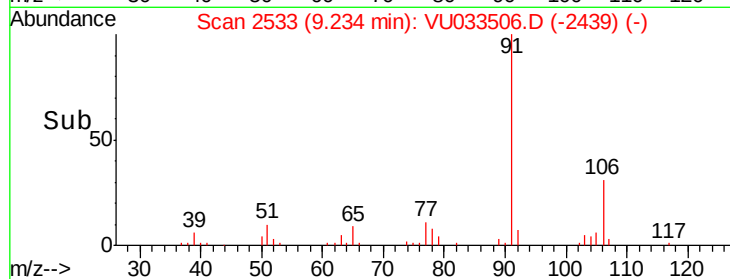
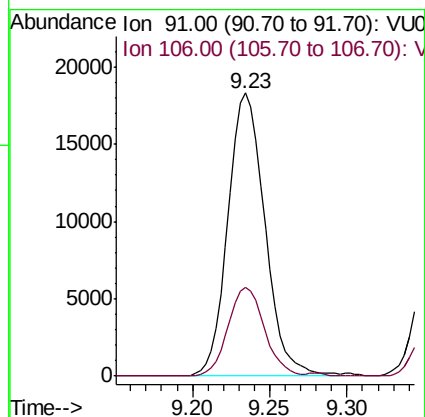
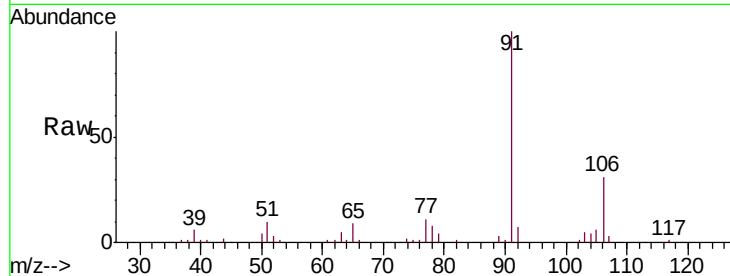
MDL06

Tgt Ion: 91 Resp: 30452

Ion Ratio Lower Upper

91 100

106 31.2 22.2 41.2



#53

m,p-Xylene

Concen: 2.740 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033506.D

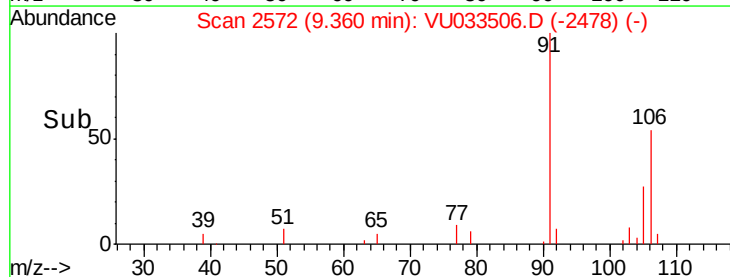
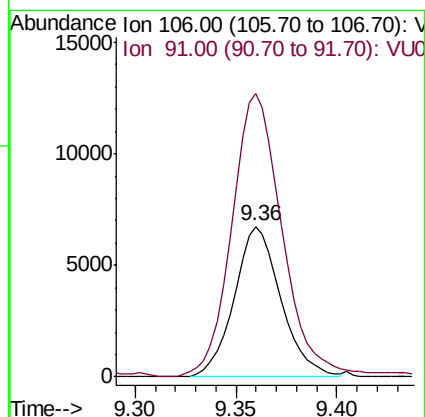
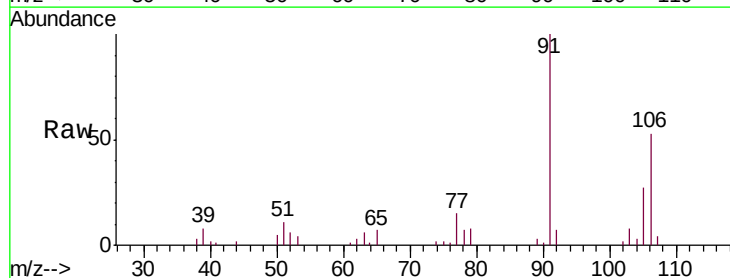
Acq: 30 Jul 2019 20:43

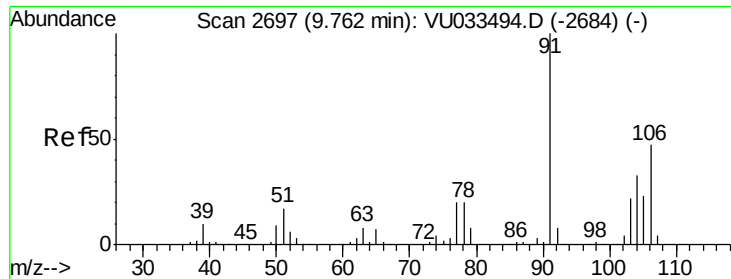
Tgt Ion: 106 Resp: 10939

Ion Ratio Lower Upper

106 100

91 188.0 143.0 265.6





#54

o-xylene

Concen: 2.686 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

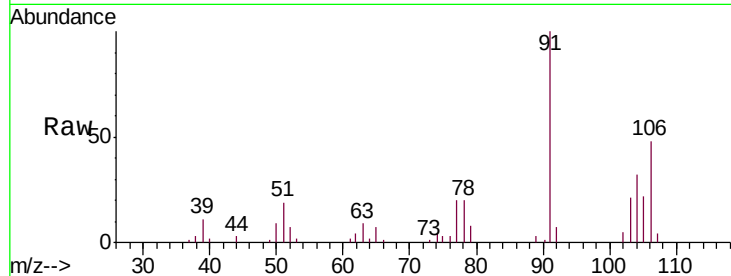
MDL06

Tgt Ion:106 Resp: 10404

Ion Ratio Lower Upper

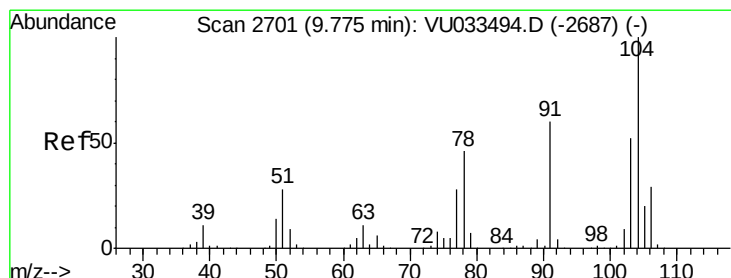
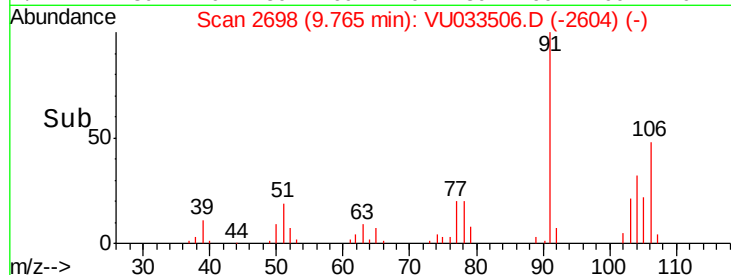
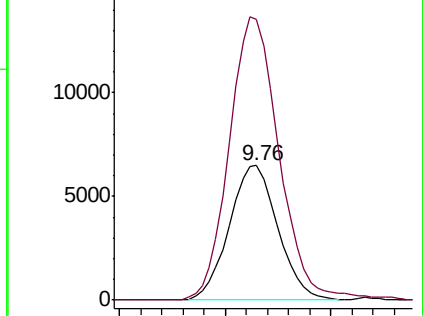
106 100

91 208.8 148.4 275.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.644 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033506.D

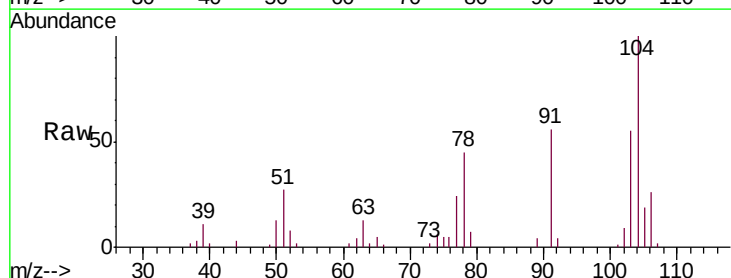
Acq: 30 Jul 2019 20:43

Tgt Ion:104 Resp: 17394

Ion Ratio Lower Upper

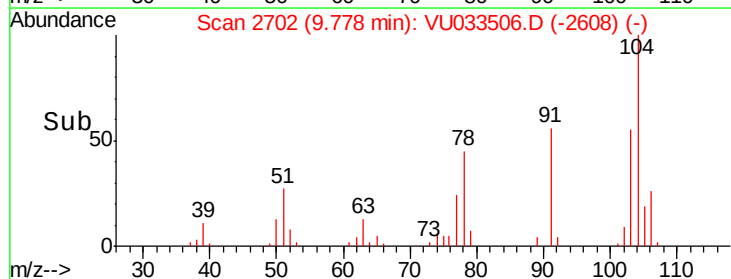
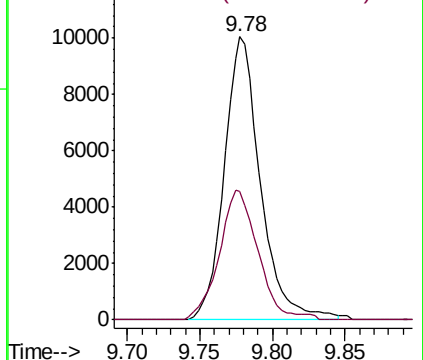
104 100

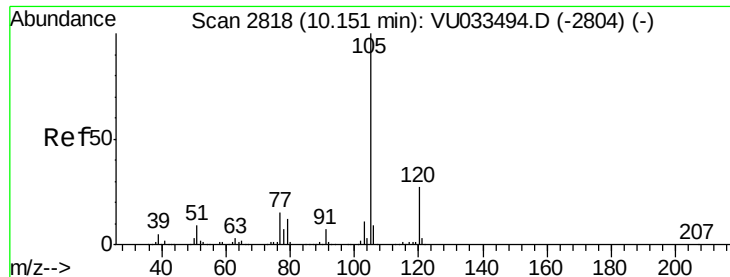
78 45.4 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.610 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

MDL06

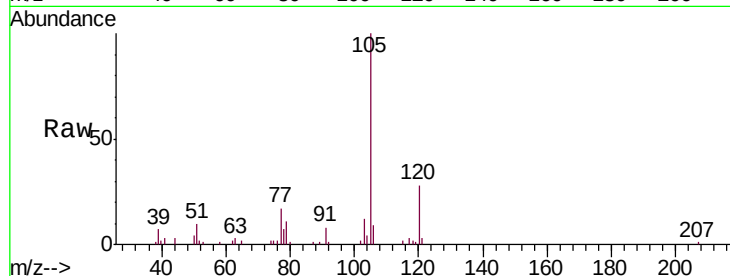
Tgt Ion: 105 Resp: 26413

Ion Ratio Lower Upper

105 100

120 25.8 21.4 32.0

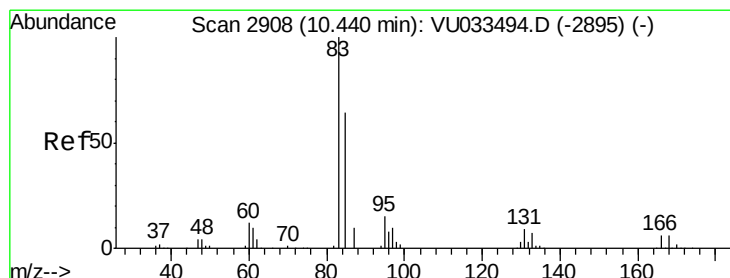
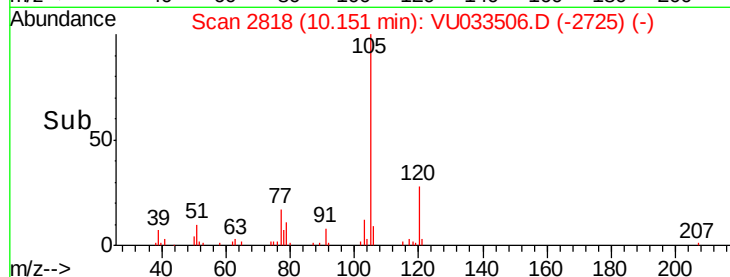
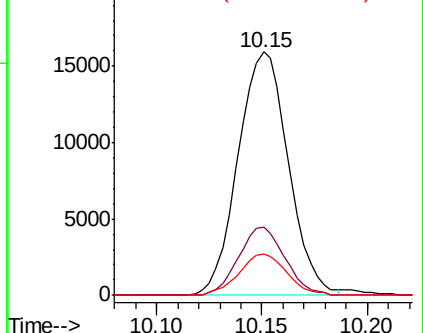
77 16.2 12.5 18.7



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: 3.340 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

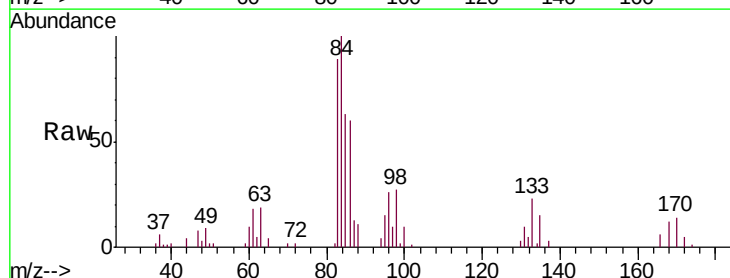
Tgt Ion: 83 Resp: 13749

Ion Ratio Lower Upper

83 100

85 70.8 45.4 84.4

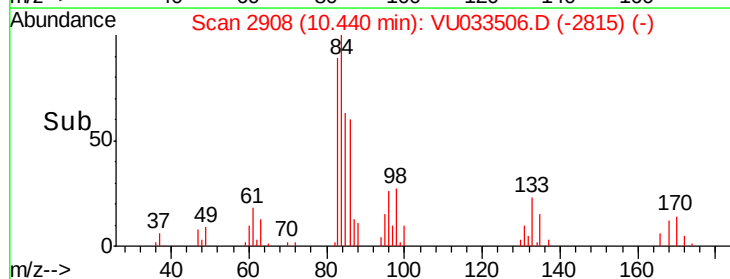
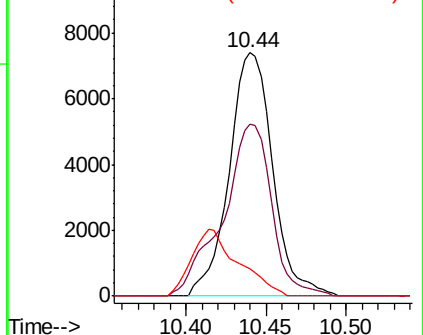
131 11.0 7.9 11.9

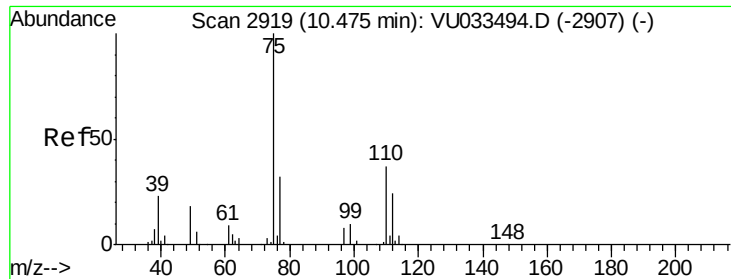


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 3.189 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

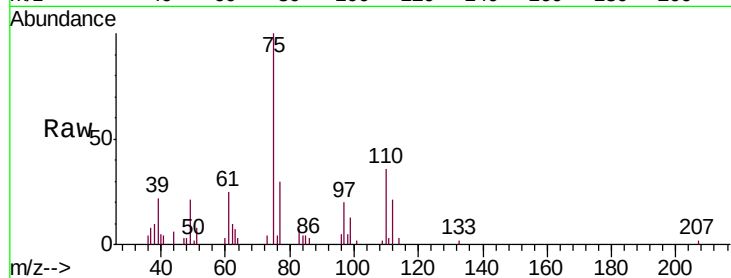
MDL06

Tgt Ion: 75 Resp: 10121

Ion Ratio Lower Upper

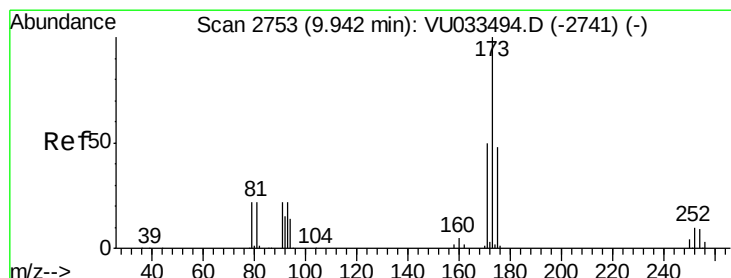
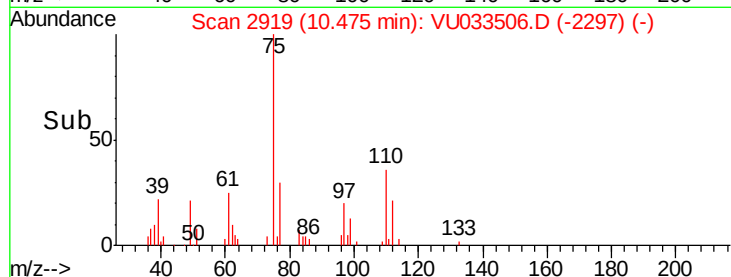
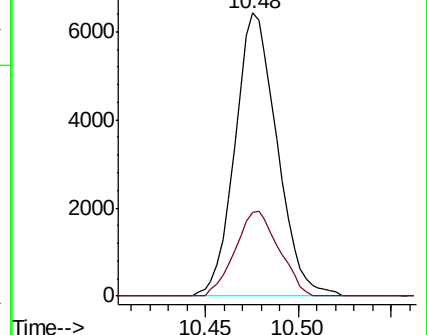
75 100

77 31.2 25.8 38.6



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

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



#61

Bromoform

Concen: 3.079 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

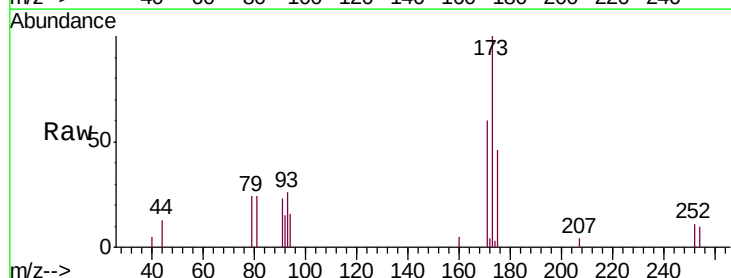
Tgt Ion: 173 Resp: 5800

Ion Ratio Lower Upper

173 100

175 46.3 38.7 58.1

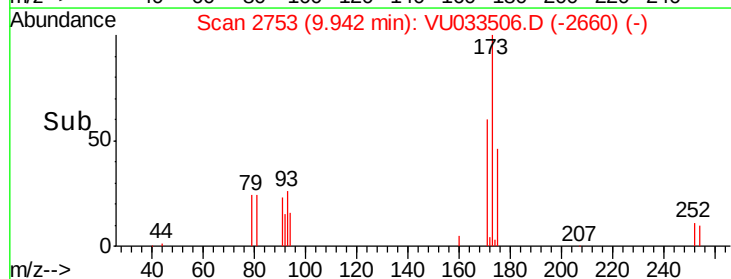
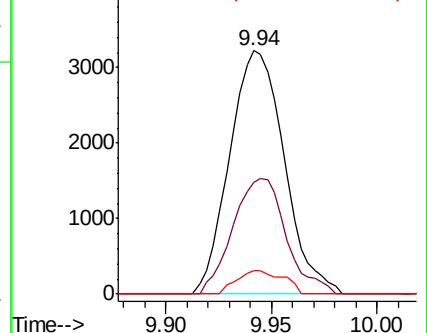
254 8.2 7.5 11.3

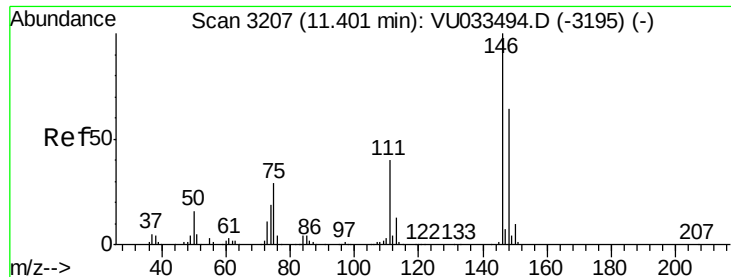


Abundance Ion 173.00 (172.70 to 173.70): VU033494.D (-2741) (-)

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

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

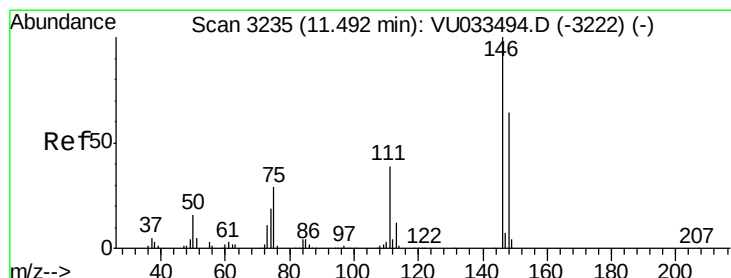
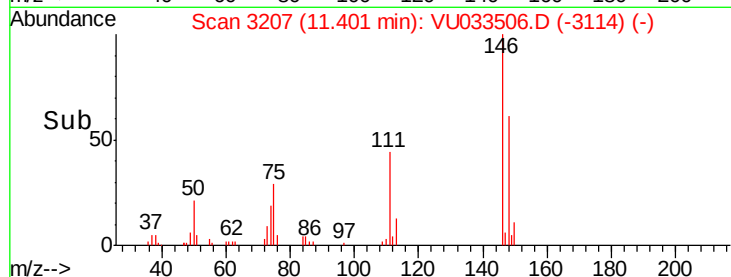
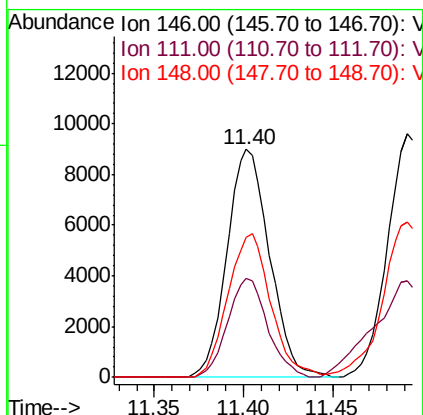
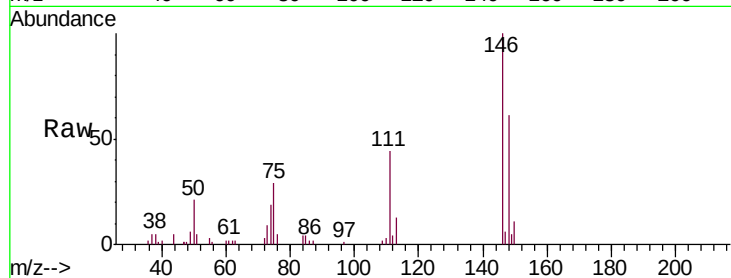




#62
 1,3-Dichlorobenzene
 Concen: 3.107 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

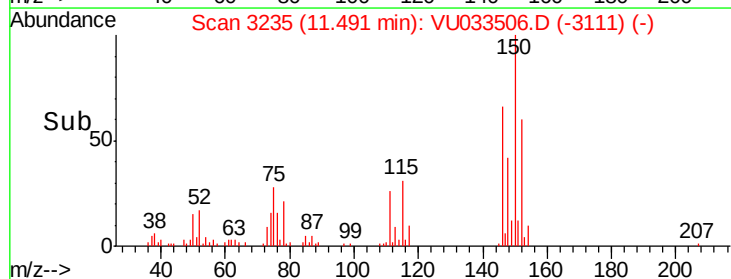
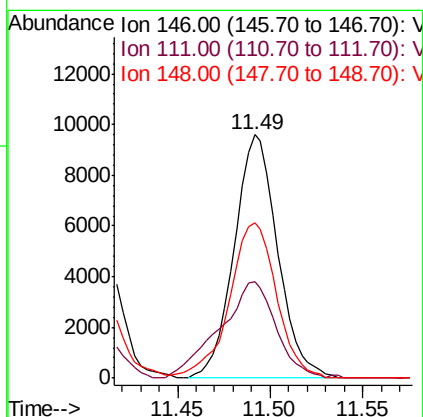
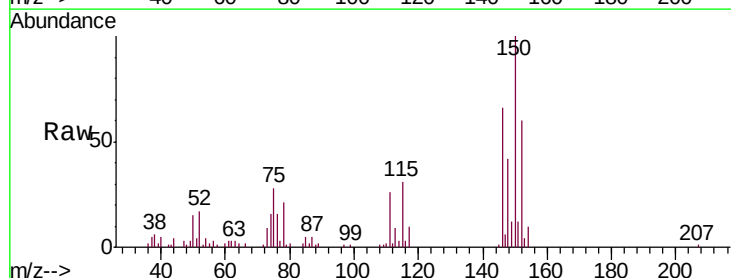
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

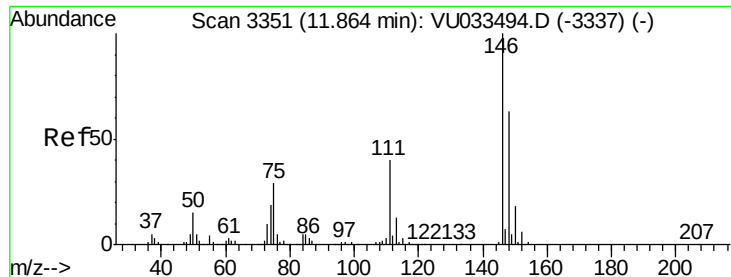
Tgt Ion:146 Resp: 14878
 Ion Ratio Lower Upper
 146 100
 111 43.6 28.1 52.1
 148 61.4 45.0 83.6



#63
 1,4-Dichlorobenzene
 Concen: 3.148 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Tgt Ion:146 Resp: 15660
 Ion Ratio Lower Upper
 146 100
 111 39.7 27.2 50.4
 148 63.8 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 3.238 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

MDL06

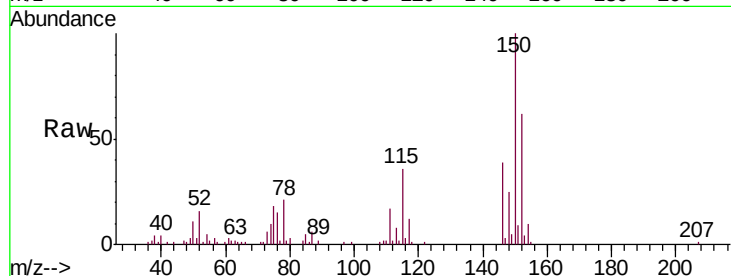
Tgt Ion:146 Resp: 15680

Ion Ratio Lower Upper

146 100

111 44.7 31.7 47.5

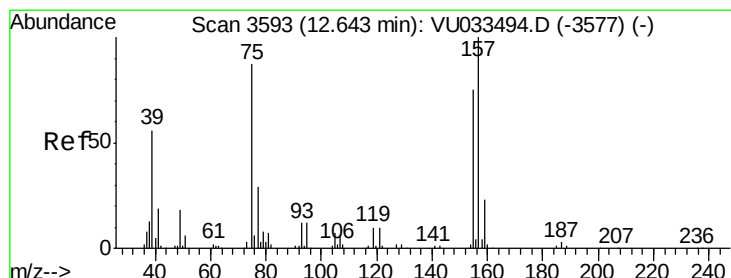
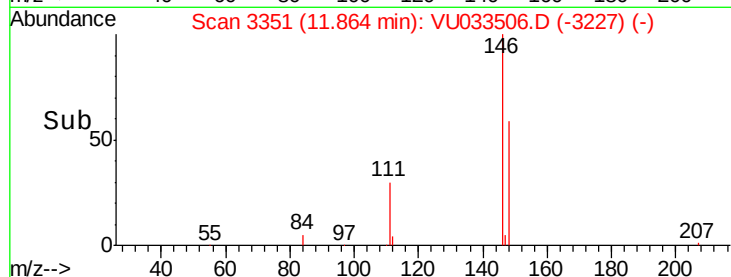
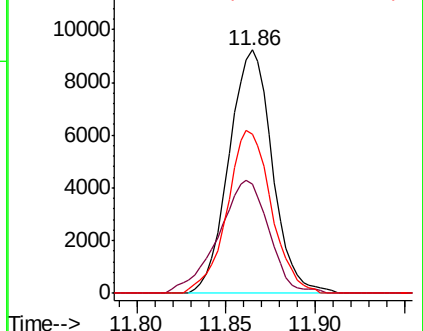
148 65.2 50.3 75.5



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: 2.948 ug/L

RT: 12.65 min Scan# 3595

Delta R.T. 0.01 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

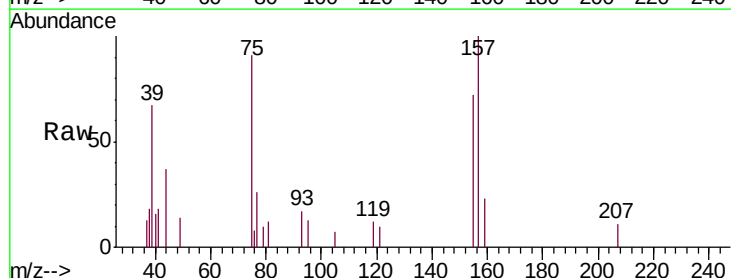
Tgt Ion: 75 Resp: 2637

Ion Ratio Lower Upper

75 100

155 78.6 69.4 104.0

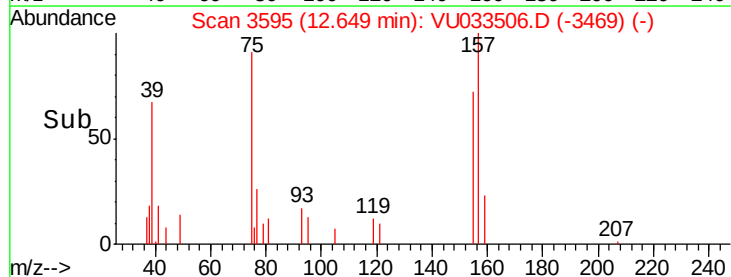
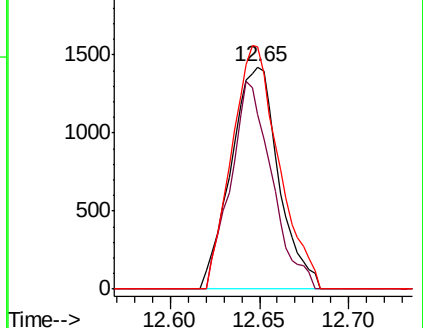
157 109.4 91.8 137.8

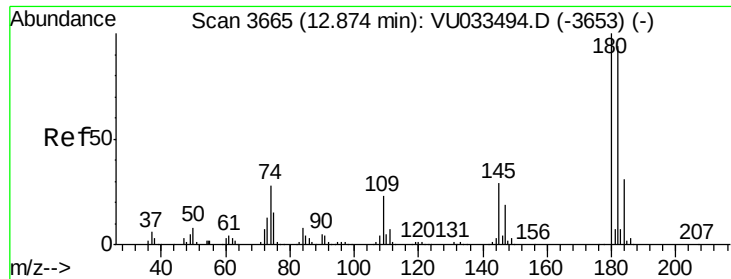


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

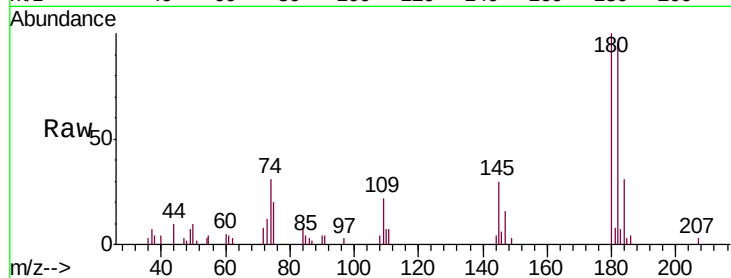




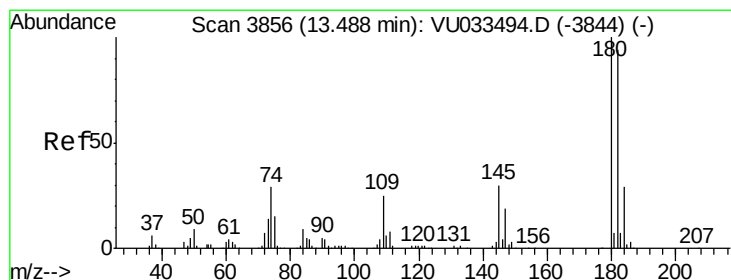
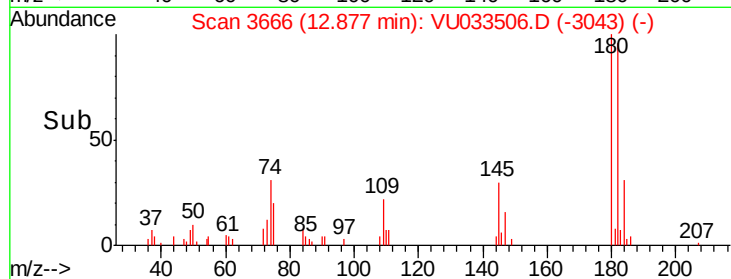
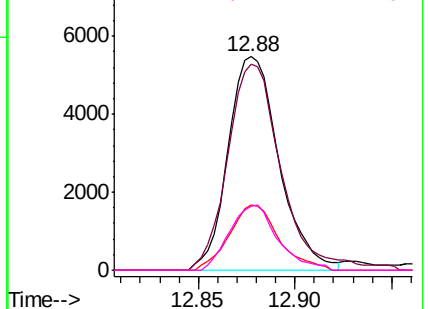
#67
 1,3,5-Trichlorobenzene
 Concen: 2.593 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tgt Ion:180 Resp: 10018
 Ion Ratio Lower Upper
 180 100
 182 100.7 75.6 113.4
 184 29.8 24.2 36.2
 145 29.0 22.7 34.1

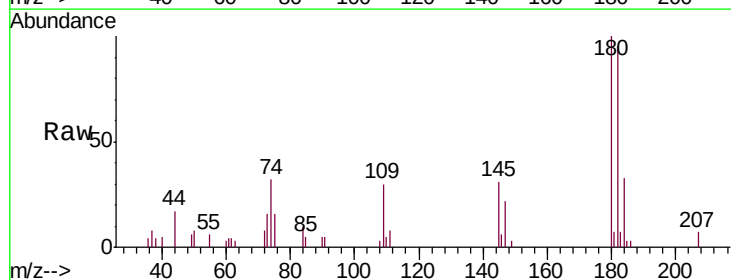


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

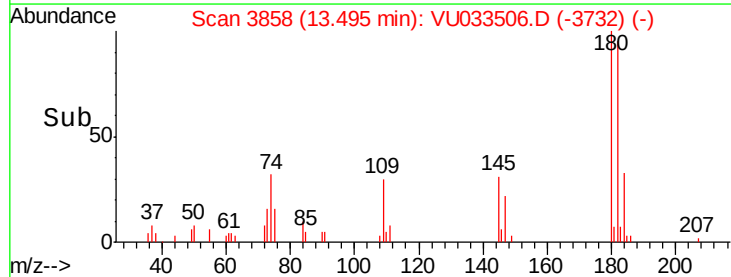
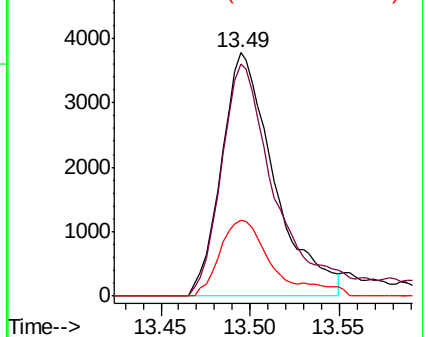


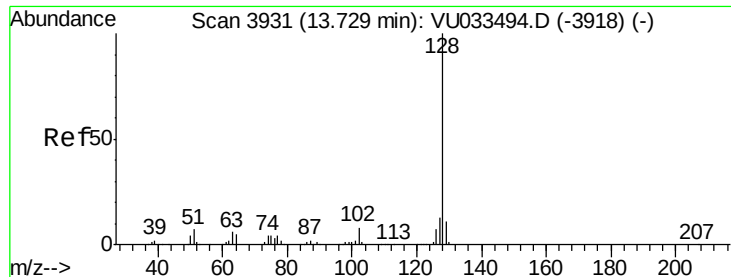
#68
 1,2,4-trichlorobenzene
 Concen: 2.357 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Tgt Ion:180 Resp: 7781
 Ion Ratio Lower Upper
 180 100
 182 97.1 75.8 113.8
 145 27.6 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: 2.025 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Instrument :

MSVOA_U

ClientSampleId :

MDL06

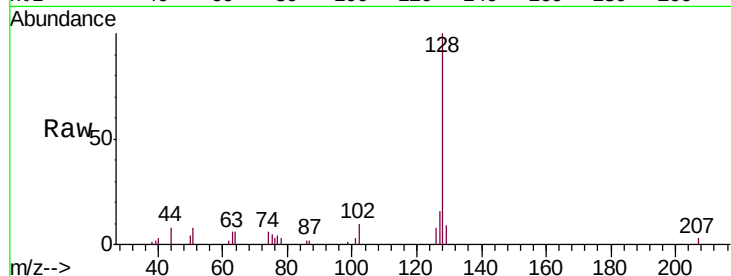
Tgt Ion:128 Resp: 19176

Ion Ratio Lower Upper

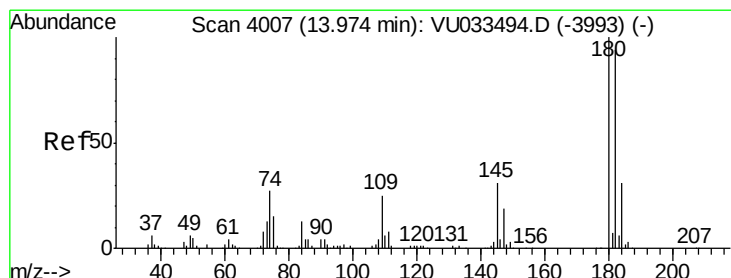
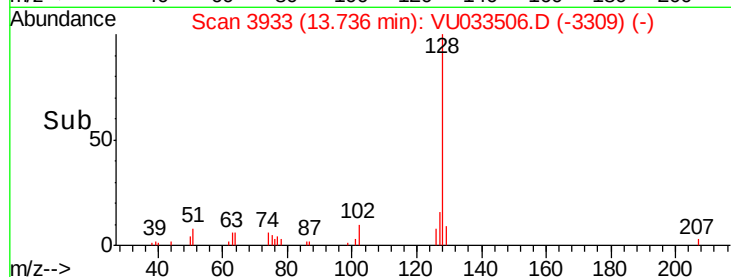
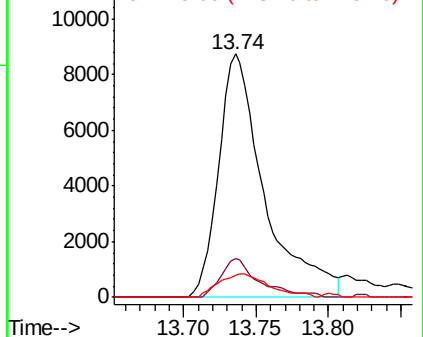
128 100

127 12.6 10.8 16.2

129 10.6 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: 2.315 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.01 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

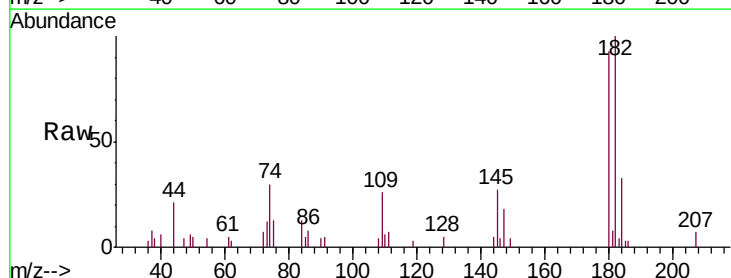
Tgt Ion:180 Resp: 8039

Ion Ratio Lower Upper

180 100

182 96.2 75.5 113.3

145 28.7 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

