

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\
 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

Manual Integrations
 APPROVED

MMDadoda
 7/31/2019 10:34:13 AM

Quant Time: Jul 31 08:31:21 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

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
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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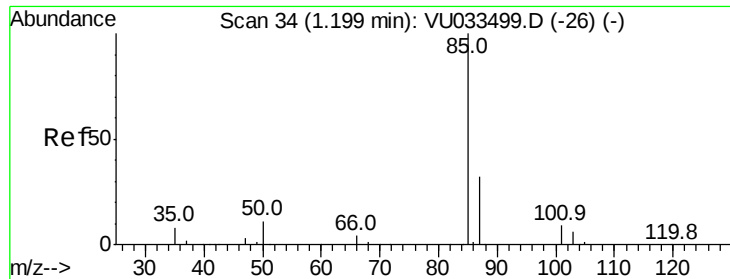
MMDadoda
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.53	128	3918m	3.112	ug/L	
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	10418m	3.072	ug/L	
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) 1,1,1,2,2-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



#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

ClientSampled :

MDL06

Tot Ion: 85 Resp: 8752

Ion Ratio Lower Upper

85 100

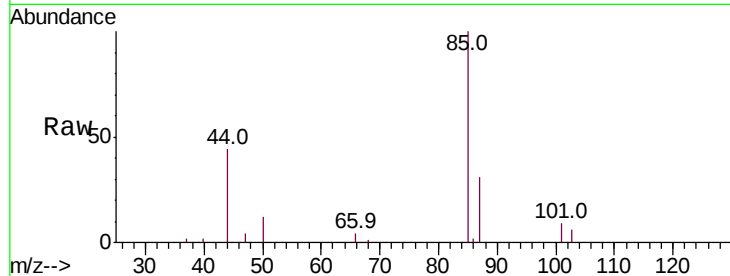
87 30.7 25.4 38.2

Manual Integrations

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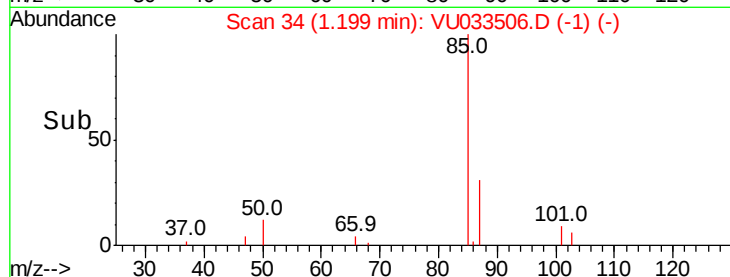
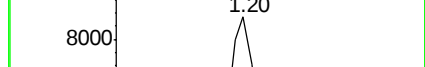
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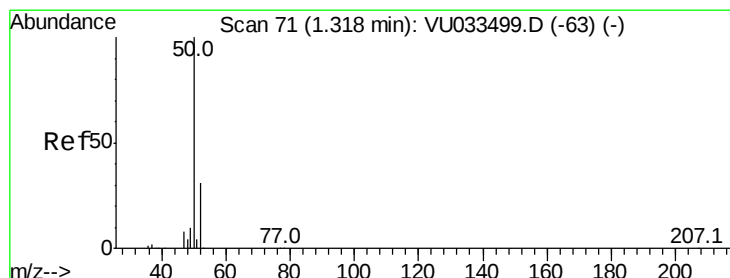


Abundance Ion 85.00 (84.70 to 85.70): VU033499.D (-26) (-)

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



Time-->



#3

Chloromethane

Concen: 3.185 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033506.D

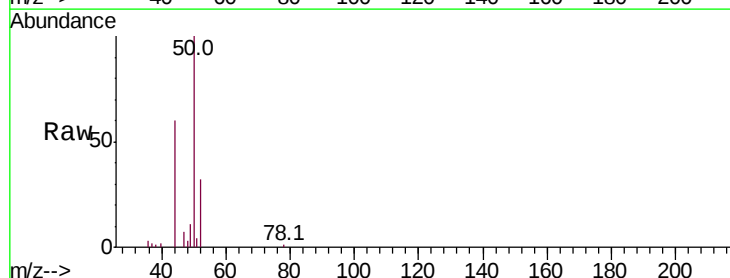
Acq: 30 Jul 2019 20:43

Tgt Ion: 50 Resp: 9585

Ion Ratio Lower Upper

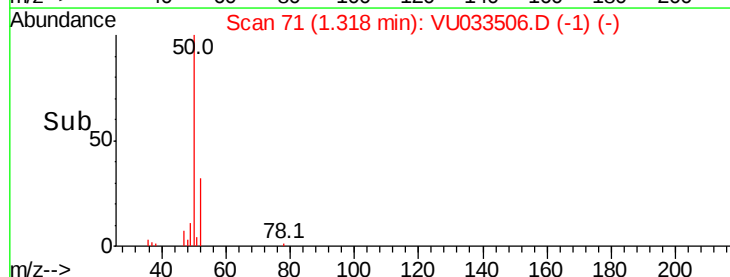
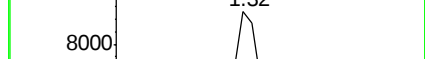
50 100

52 32.0 23.1 42.9

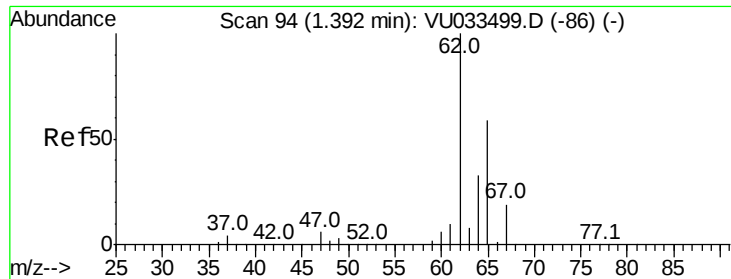


Abundance Ion 50.00 (49.70 to 50.70): VU033499.D (-63) (-)

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



Time-->



#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

ClientSampled :

MDL06

Tot Ion: 62 Resp: 10540

Ion Ratio Lower Upper

62 100

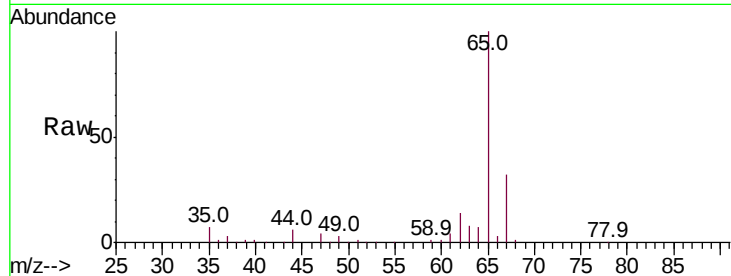
64 45.7 23.4 43.4#

Manual Integrations

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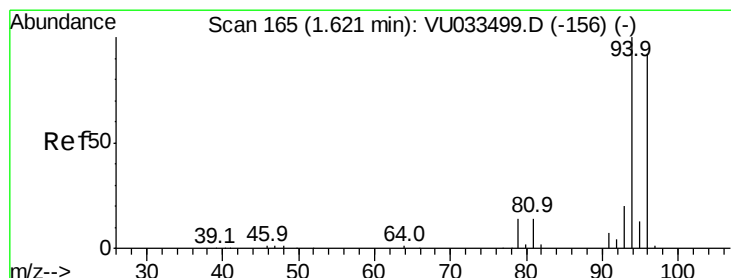
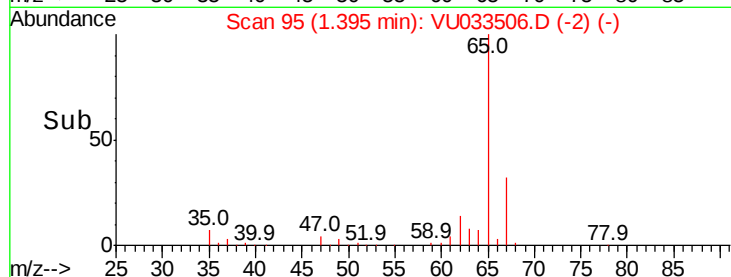
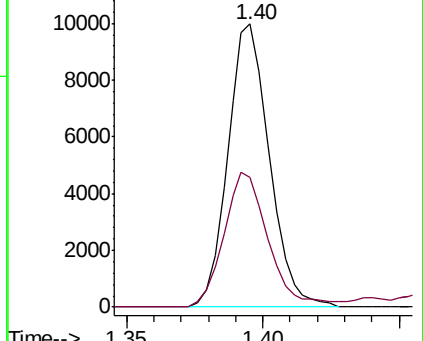
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Abundance Ion 62.00 (61.70 to 62.70): VU033499.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033506.D (-2) (-)



#6

Bromomethane

Concen: 2.481 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033506.D

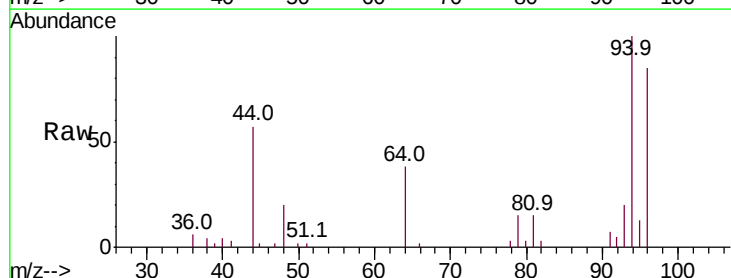
Acq: 30 Jul 2019 20:43

Tgt Ion: 94 Resp: 7063

Ion Ratio Lower Upper

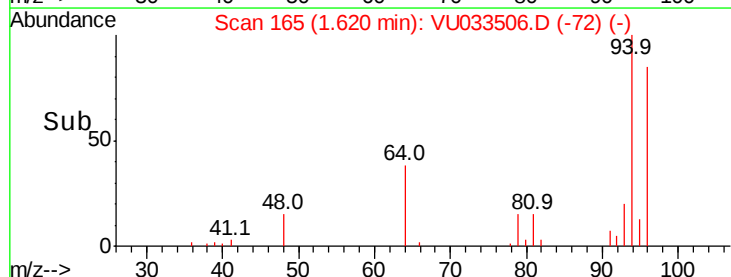
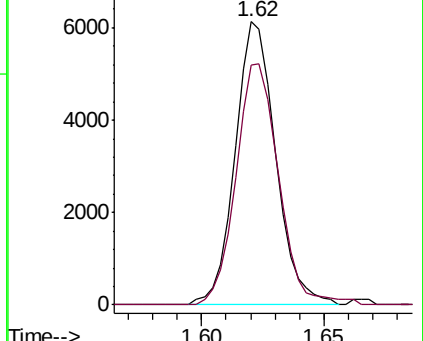
94 100

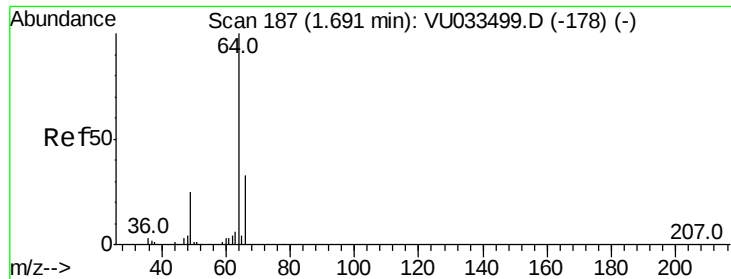
96 84.5 64.4 119.6



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

Ion 96.00 (95.70 to 96.70): VU033506.D (-72) (-)





#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

Tot Ion: 64 Resp: 8545

Ion Ratio Lower Upper

64 100

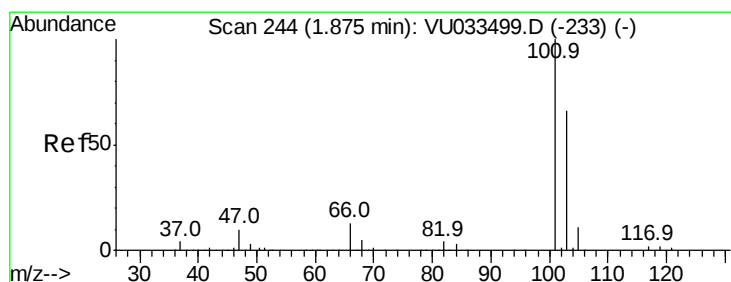
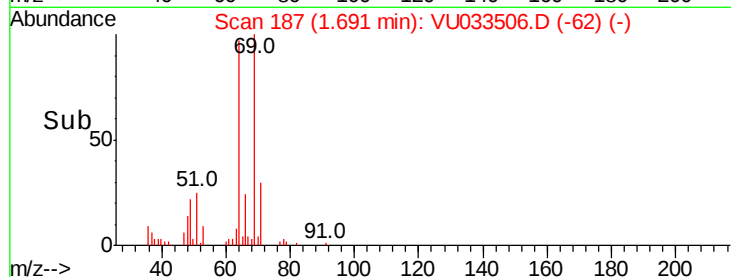
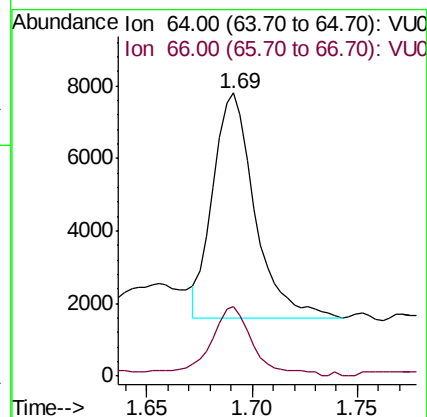
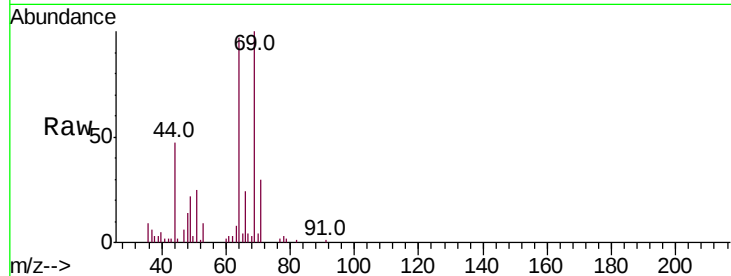
66 24.5 21.1 39.3

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 3.248 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033506.D

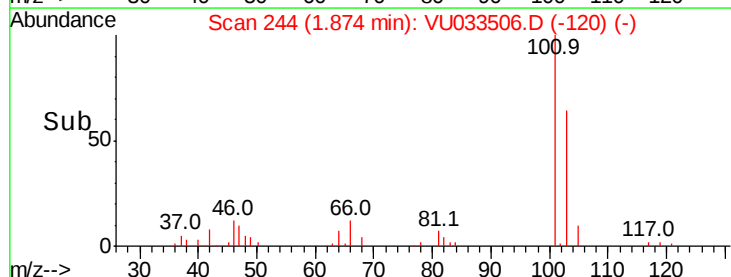
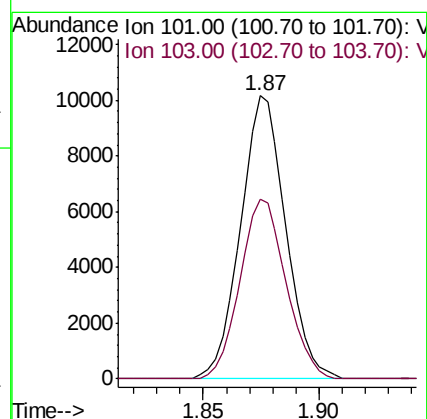
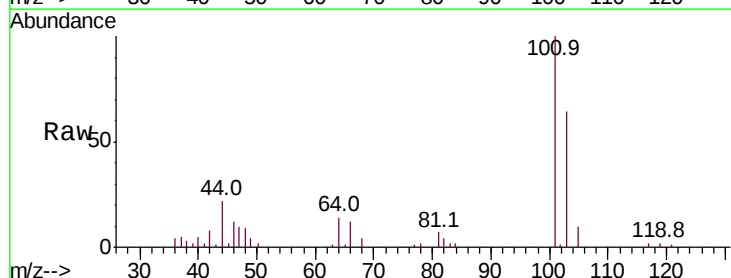
Acq: 30 Jul 2019 20:43

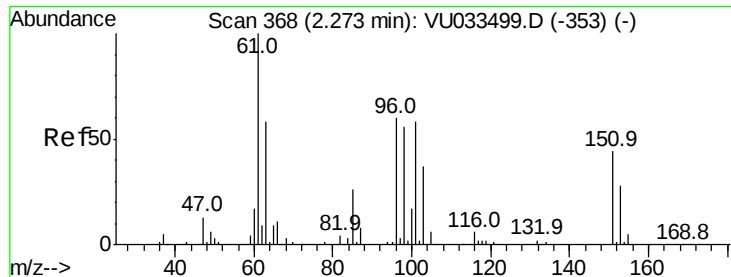
Tgt Ion: 101 Resp: 13708

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

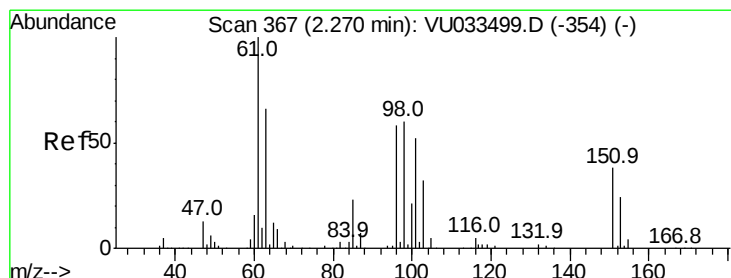
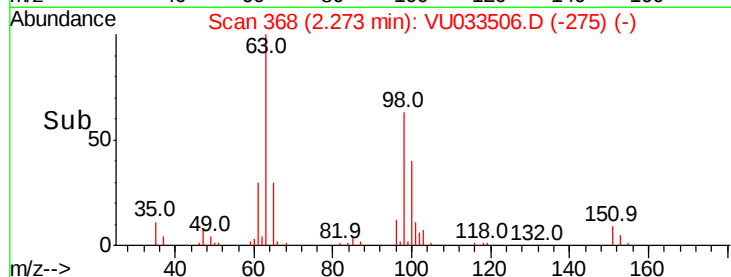
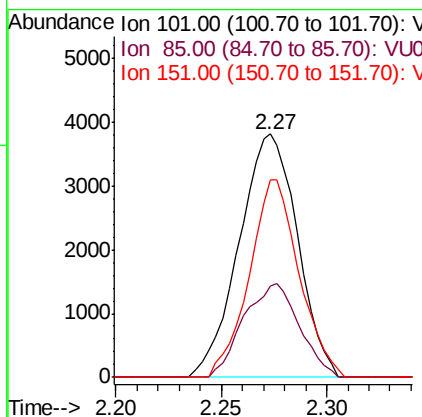
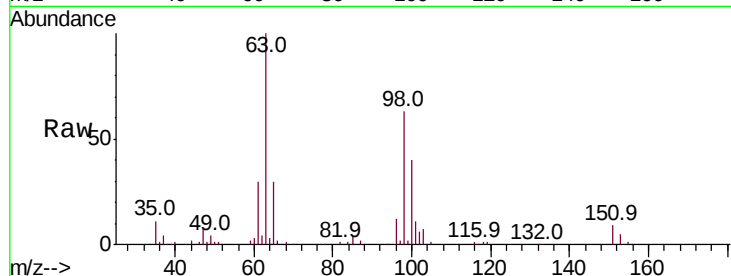
ClientSampled :

MDL06

Tot Ion:	101	Resp:	7328
Ion Ratio	Lower	Upper	
101	100		
85	36.7	35.8	53.8
151	69.4	60.1	90.1

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.481 ug/L

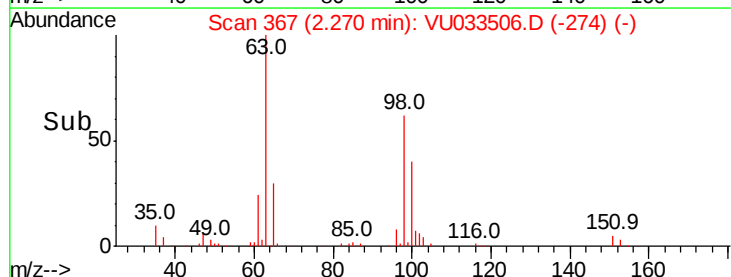
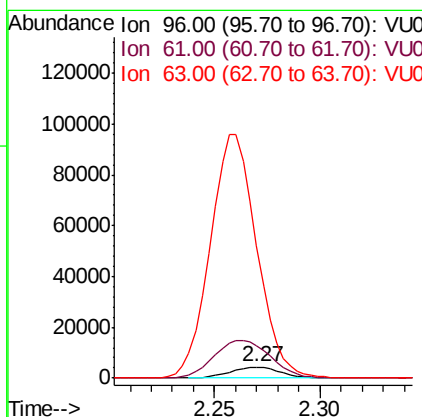
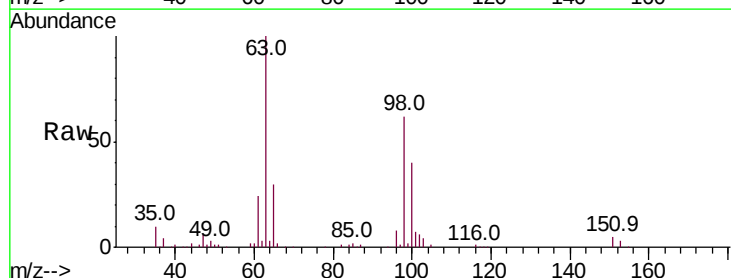
RT: 2.27 min Scan# 367

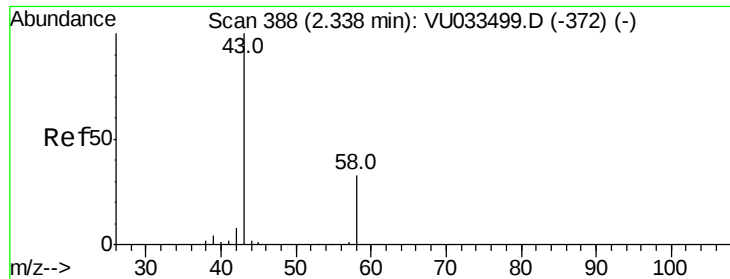
Delta R.T. -0.00 min

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#





#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

ClientSampleId :

MDL06

Tot Ion: 43 Resp: 8708

Ion Ratio Lower Upper

43 100

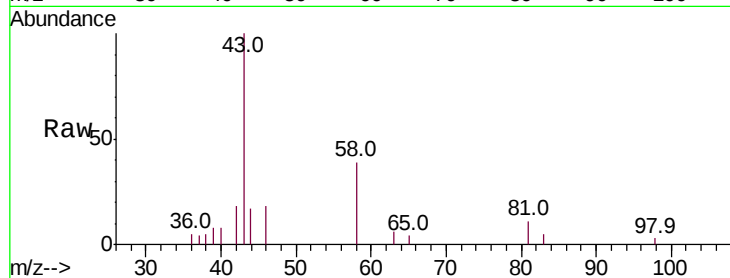
58 32.7 0.0 66.2

Manual Integrations

APPROVED

MMDadoda

7/31/2019 10:34:13 AM



Abundance Ion 43.00 (42.70 to 43.70): VU033499.D (-372) (-)

Ion 58.00 (57.70 to 58.70): VU033499.D (-372) (-)

2.32

4000

3000

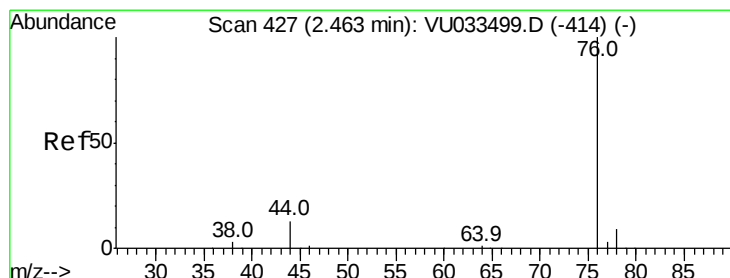
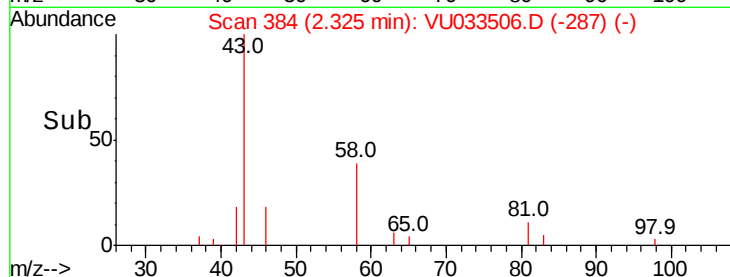
2000

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

Lab File: VU033506.D

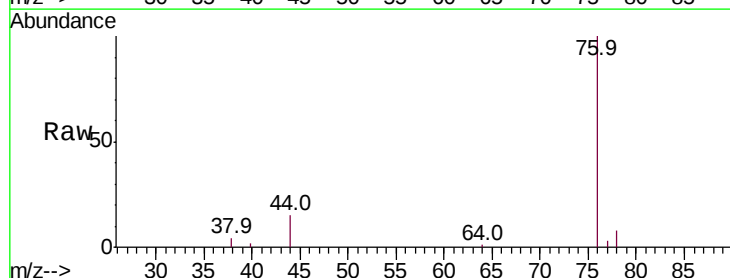
Acq: 30 Jul 2019 20:43

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): VU033499.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033499.D (-414) (-)

2.46

15000

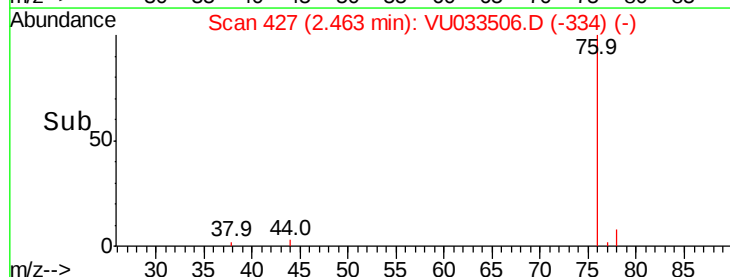
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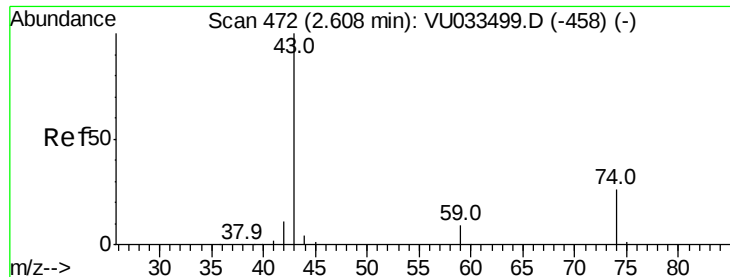
5000

0

Time-->

2.40 2.45 2.50





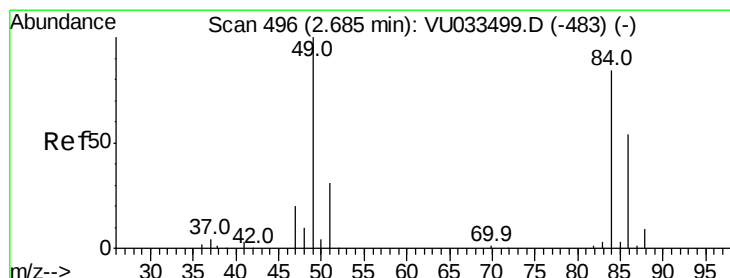
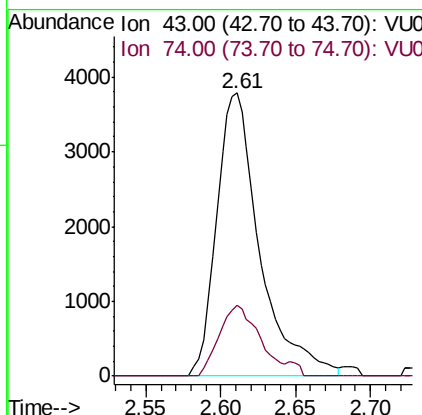
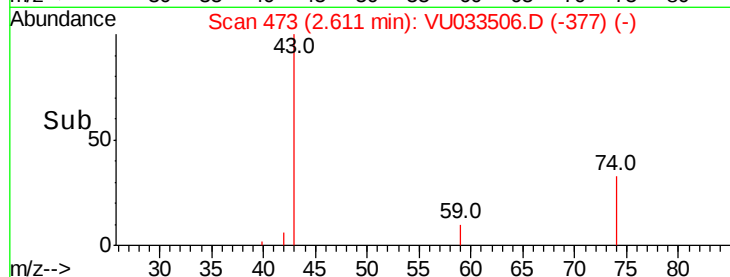
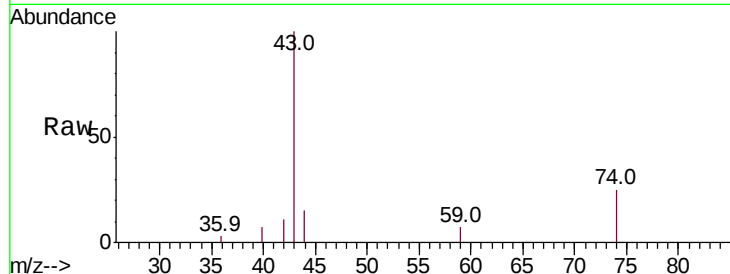
#15
Methyl Acetate
Concen: 3.051 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion: 43 Resp: 7582
Ion Ratio Lower Upper
43 100
74 23.2 20.1 30.1

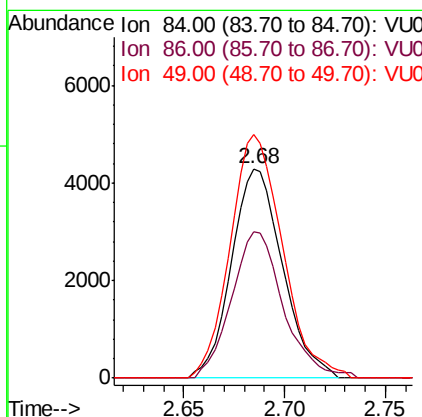
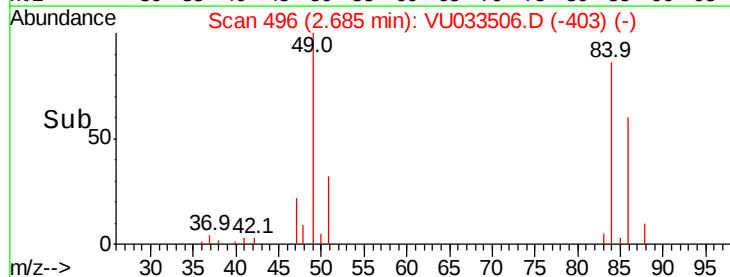
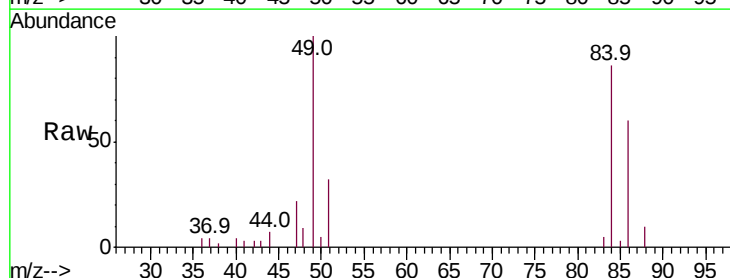
Manual Integrations
APPROVED

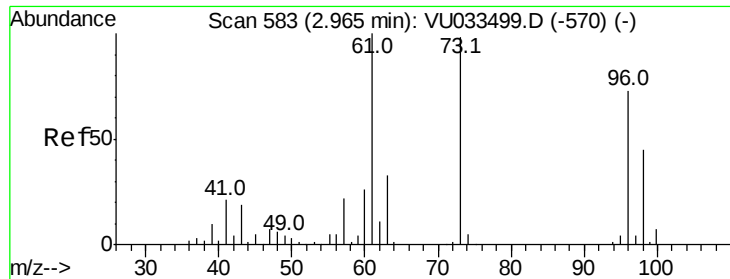
MMDadoda
7/31/2019 10:34:13 AM



#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





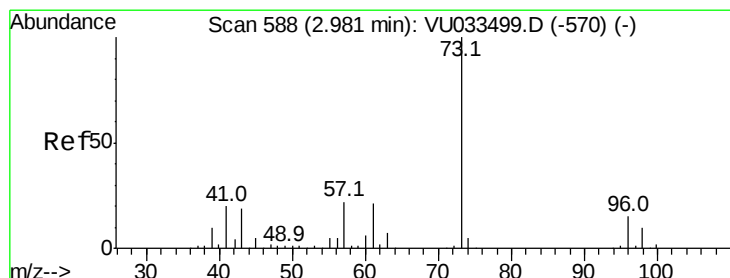
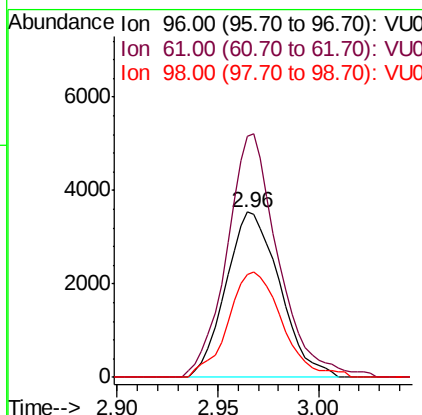
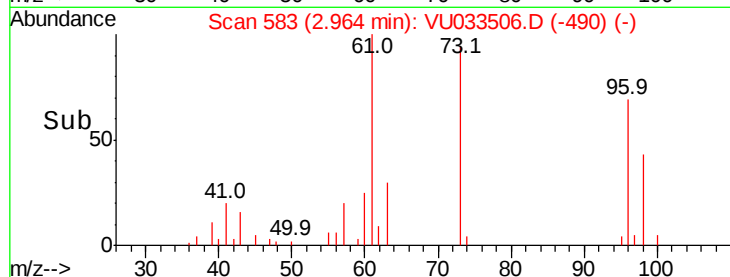
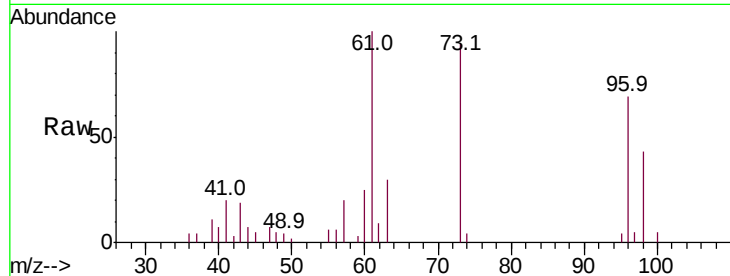
#17
trans-1,2-Dichloroethene
Concen: 3.070 ug/L
RT: 2.96 min Scan# 583
Delta R.T. -0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.8	98.3	182.5
98	62.3	44.3	82.3

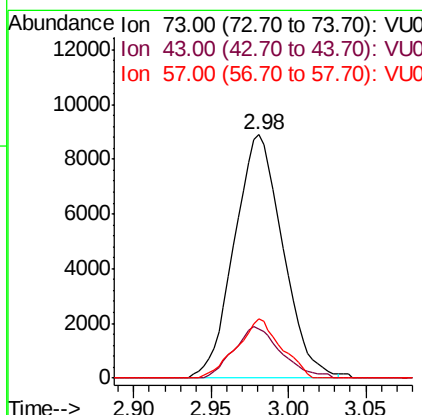
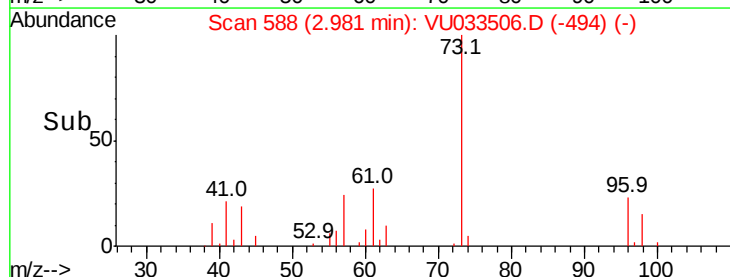
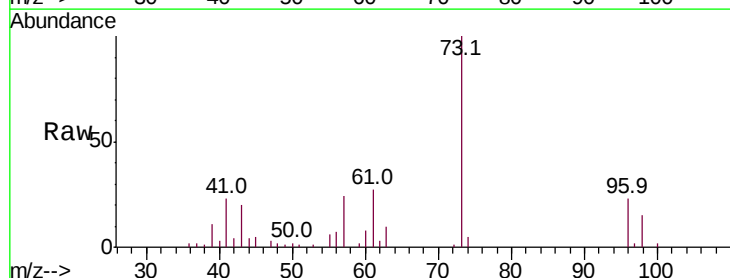
Manual Integrations
APPROVED

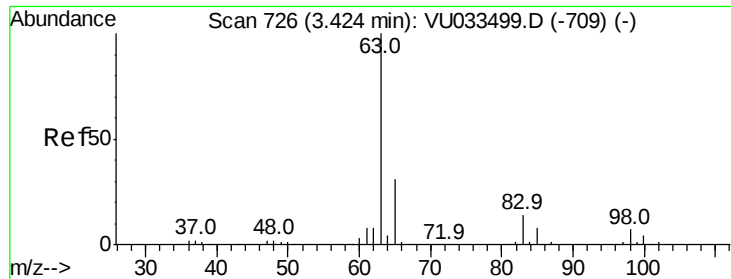
MMDadoda
7/31/2019 10:34:13 AM



#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	Ratio	Lower	Upper
73	100		
43	20.4	15.4	23.2
57	22.2	17.4	26.2





#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

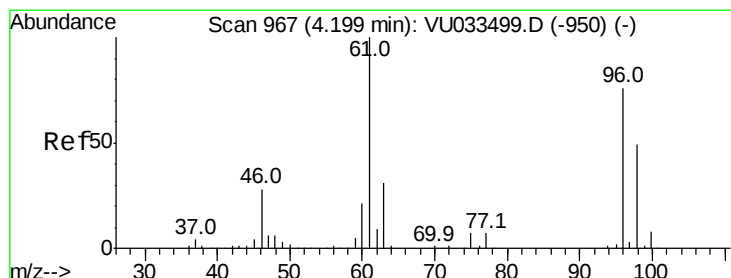
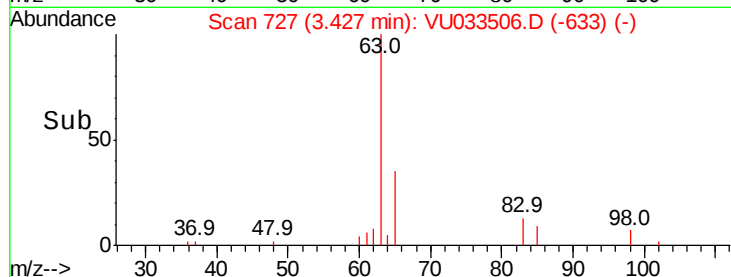
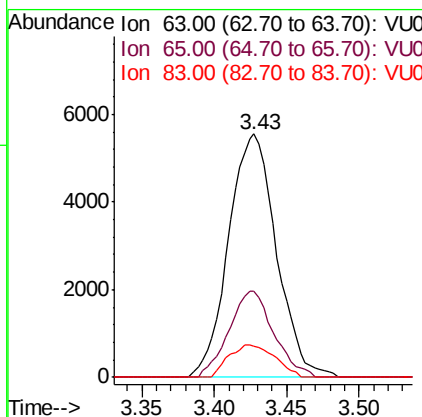
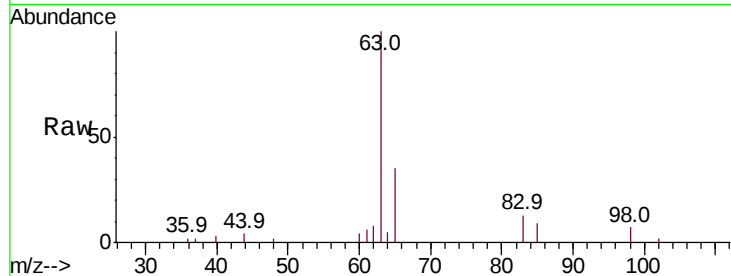
ClientSampleId :

MDL06

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

Manual Integrations
APPROVED

MMDadoda
7/31/2019 10:34:13 AM



#20

cis-1,2-Dichloroethene

Concen: 2.981 ug/L

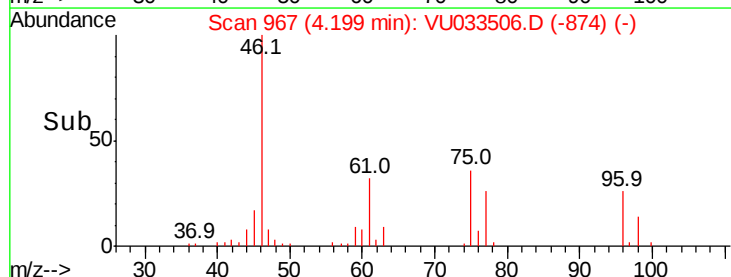
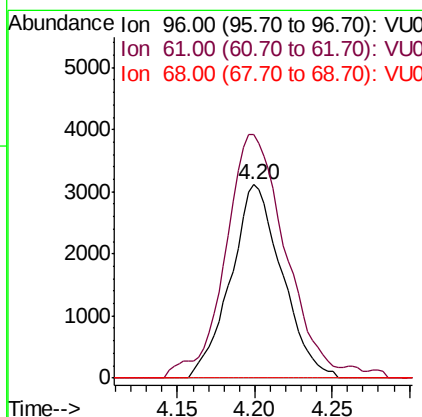
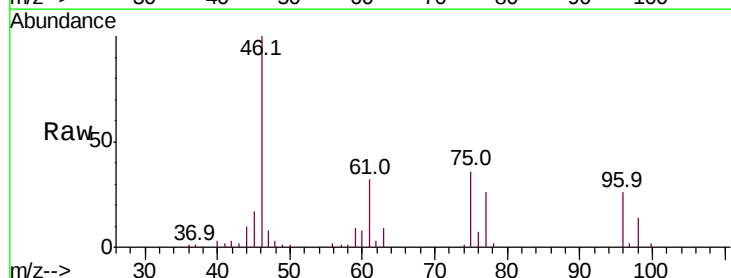
RT: 4.20 min Scan# 967

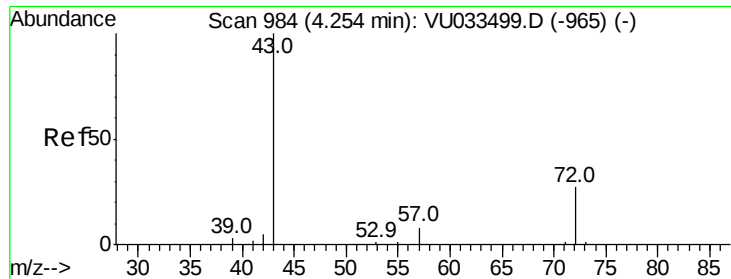
Delta R.T. -0.00 min

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





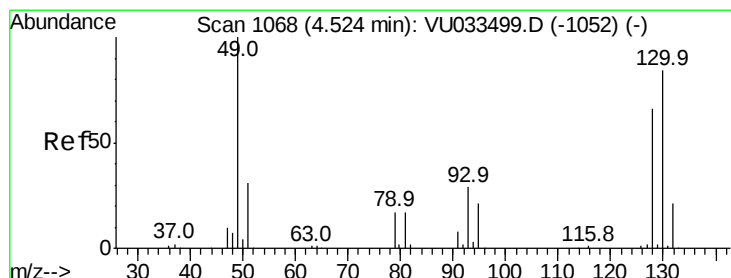
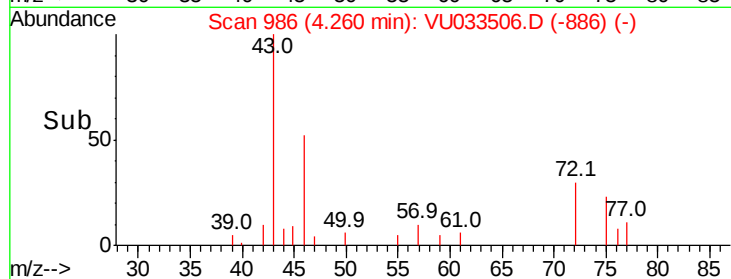
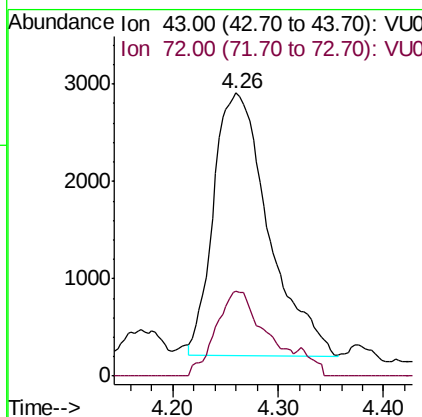
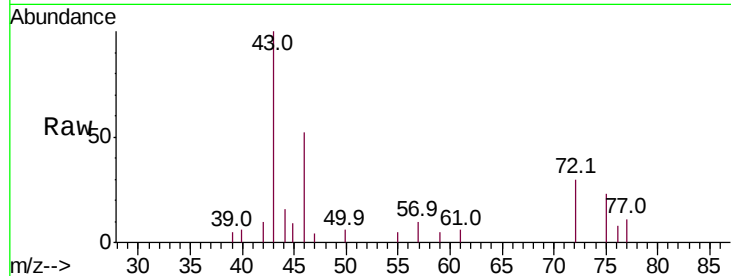
#22
2-Butanone
Concen: 5.245 ug/L
RT: 4.26 min Scan# 986
Delta R.T. 0.02 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

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

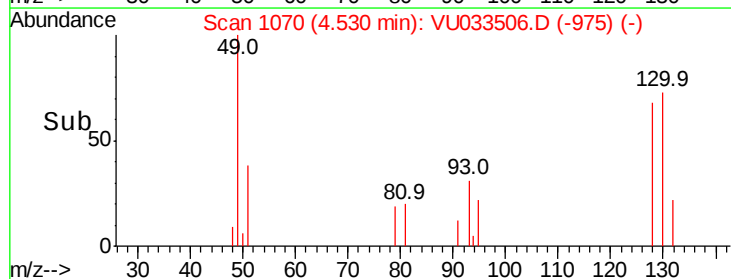
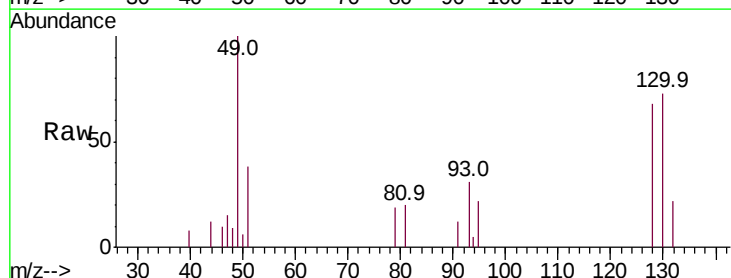
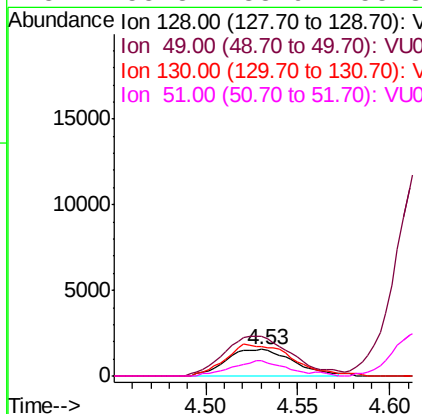
Manual Integrations
APPROVED

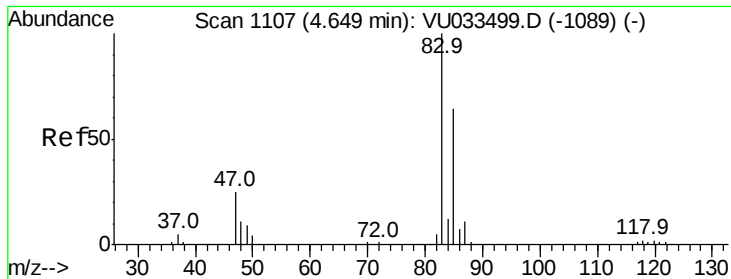
MMDadoda
7/31/2019 10:34:13 AM



#23
Bromochloromethane
Concen: 3.112 ug/L m
RT: 4.53 min Scan# 1070
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Tgt Ion: 128 Resp: 3918
Ion Ratio Lower Upper
128 100
49 147.6 108.4 201.2
130 108.1 89.7 166.5
51 55.8 38.9 58.3





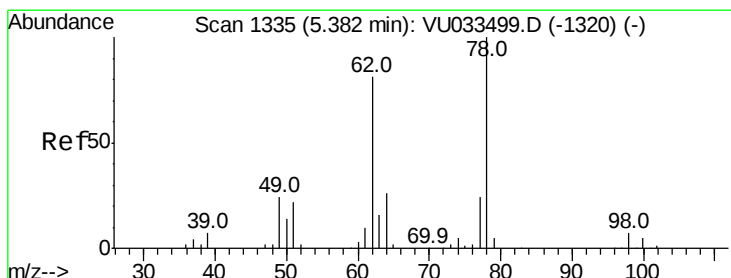
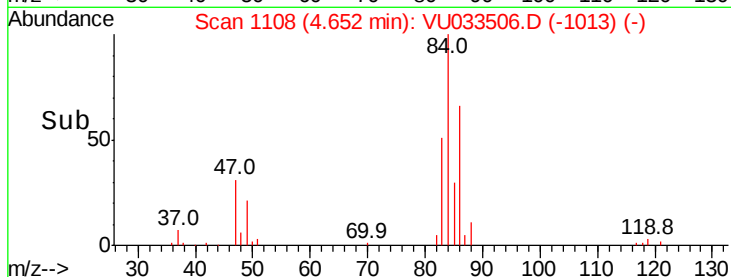
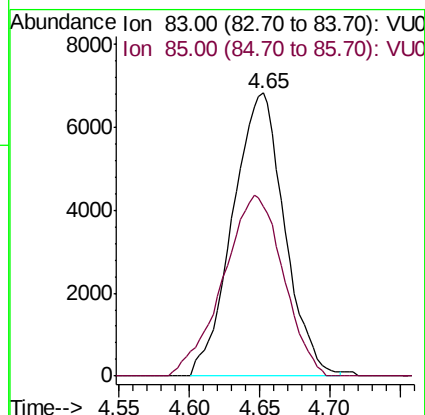
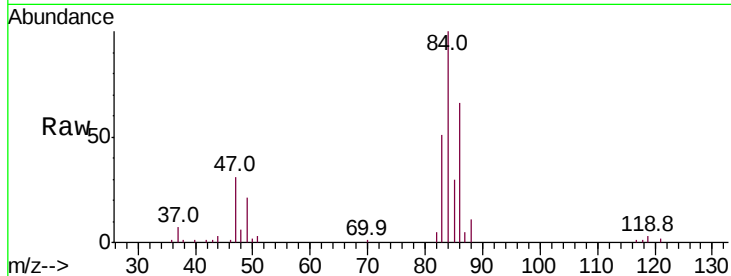
#25
Chloroform
Concen: 4.129 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

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

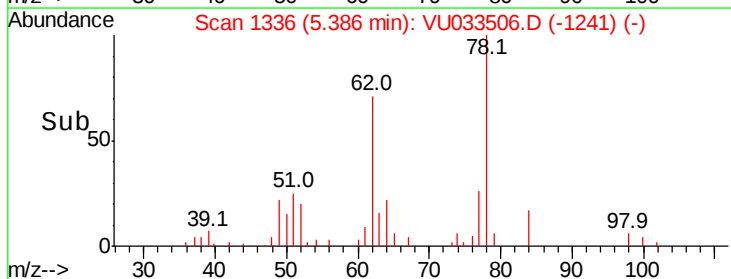
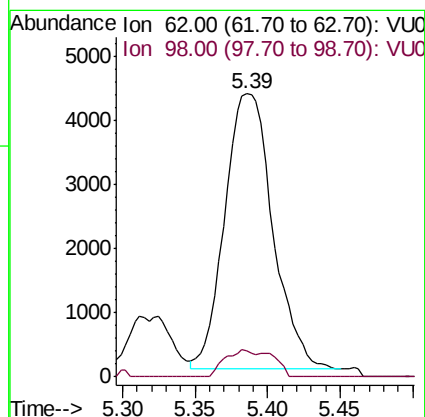
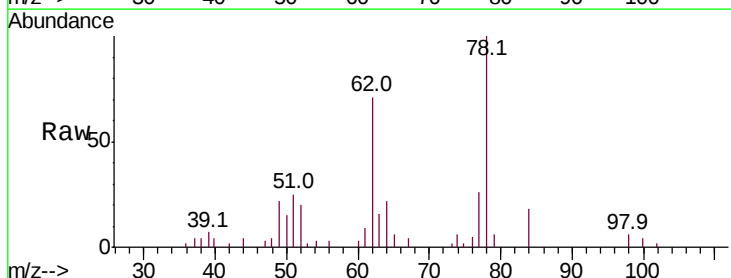
Manual Integrations
APPROVED

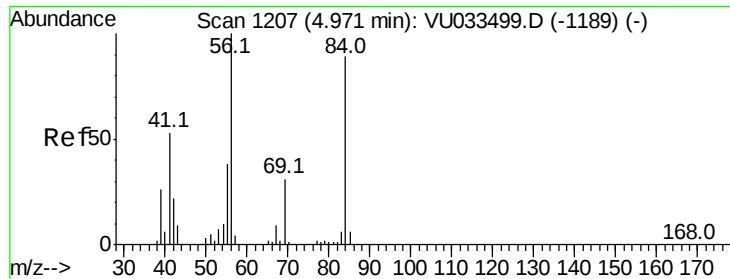
MMDadoda
7/31/2019 10:34:13 AM



#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





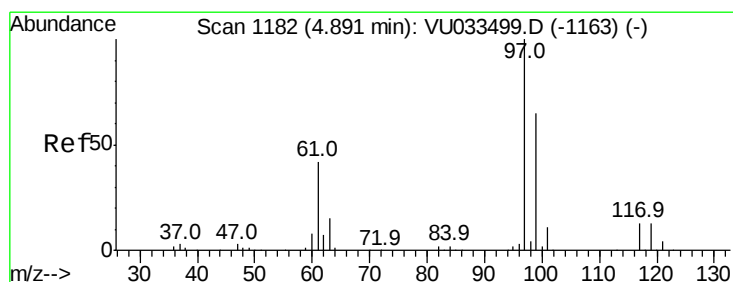
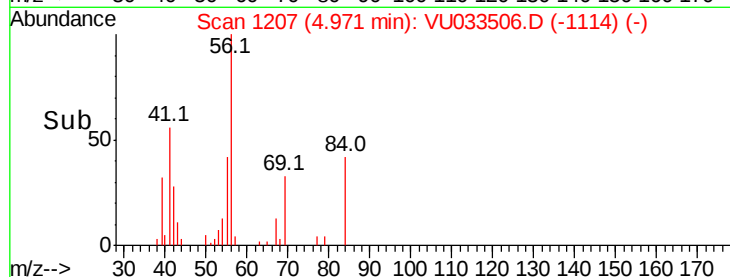
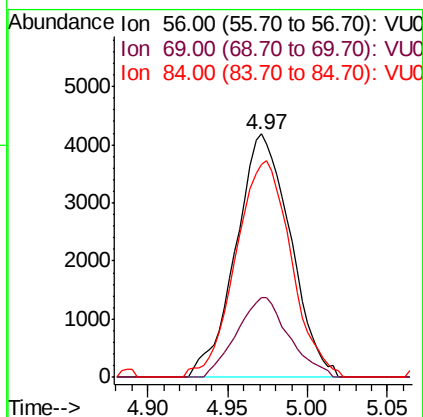
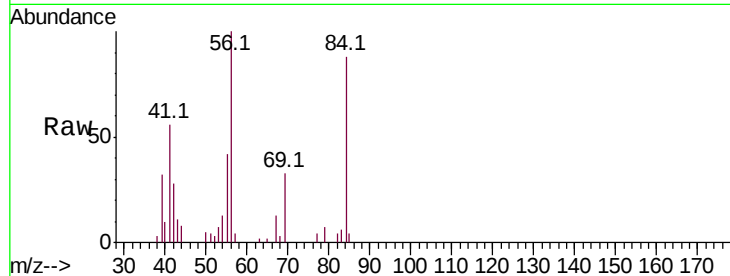
#29
Cyclohexane
Concen: 2.875 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.4	25.0	37.6
84	89.7	71.6	107.4

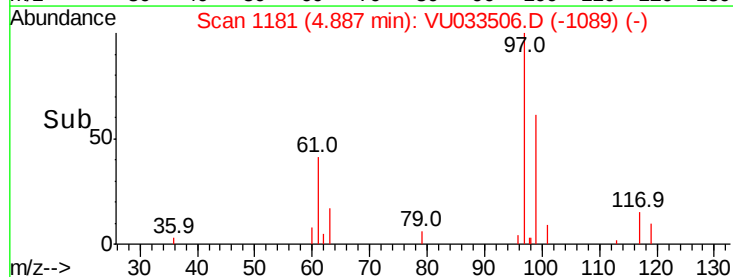
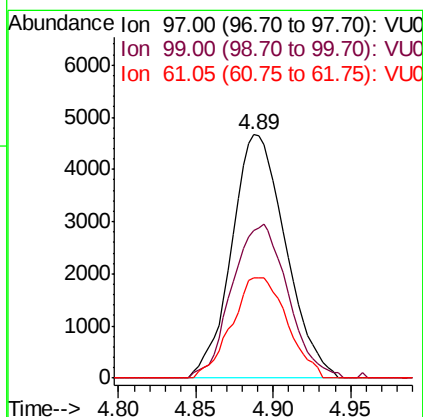
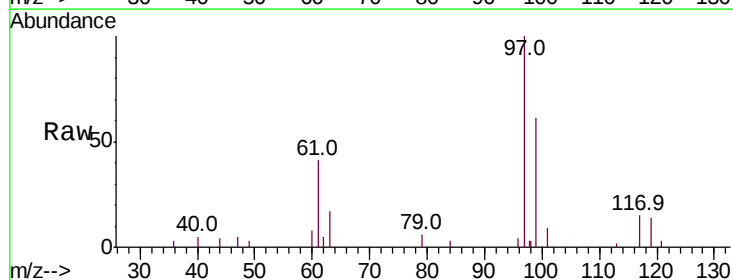
Manual Integrations
APPROVED

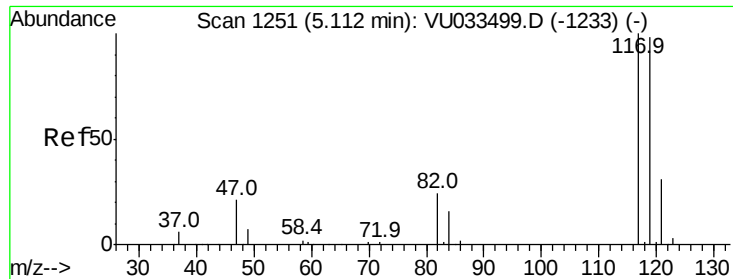
MMDadoda
7/31/2019 10:34:13 AM



#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	Ratio	Lower	Upper
97	100		
99	65.6	51.1	76.7
61	42.3	35.5	53.3





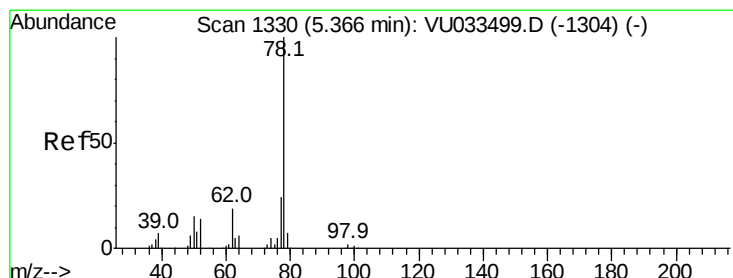
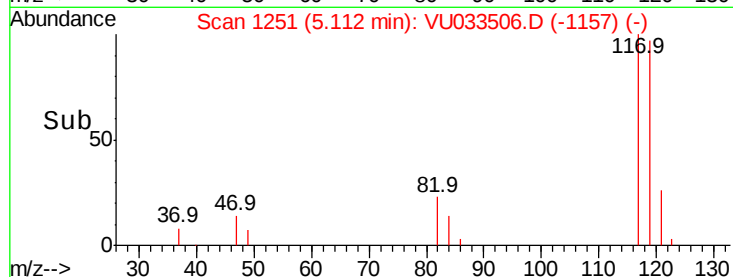
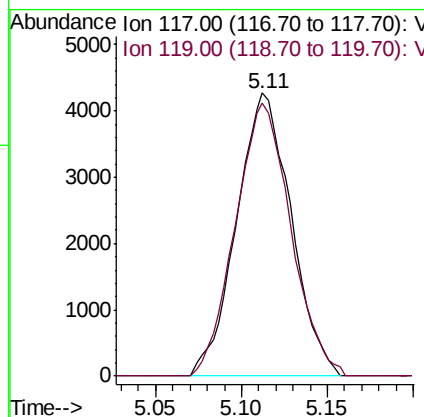
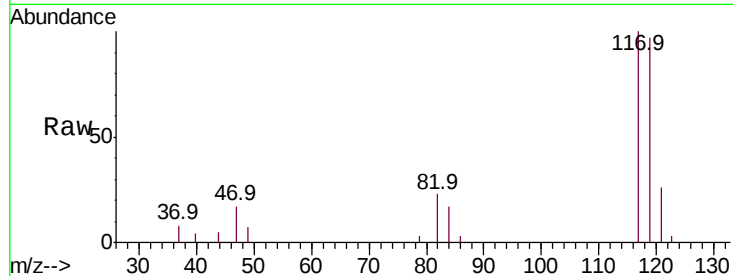
#31
Carbon tetrachloride
Concen: 3.015 ug/L
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion:117 Resp: 9405
Ion Ratio Lower Upper
117 100
119 98.2 77.0 115.4

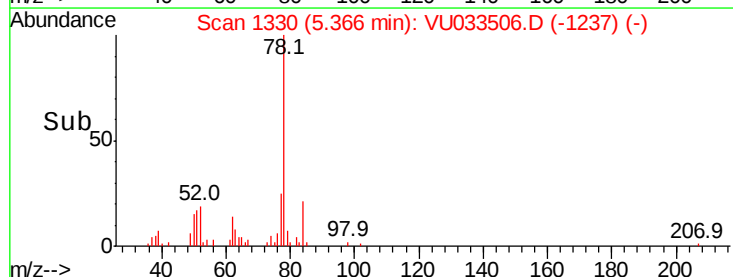
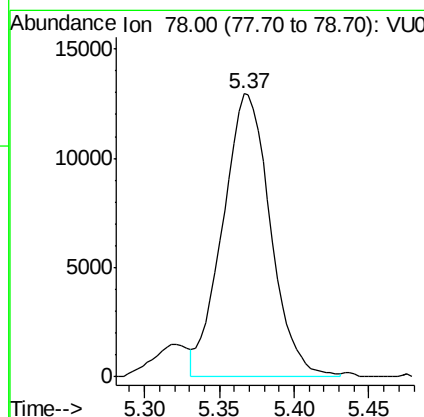
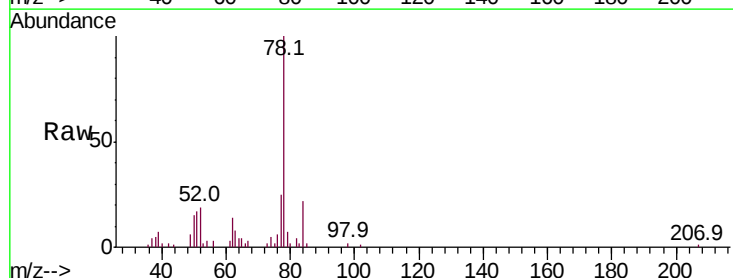
Manual Integrations
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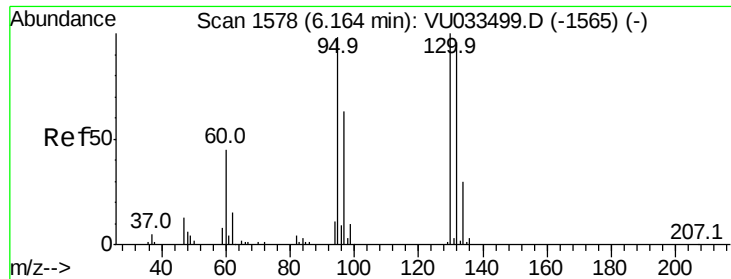
MMDadoda
7/31/2019 10:34:13 AM



#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





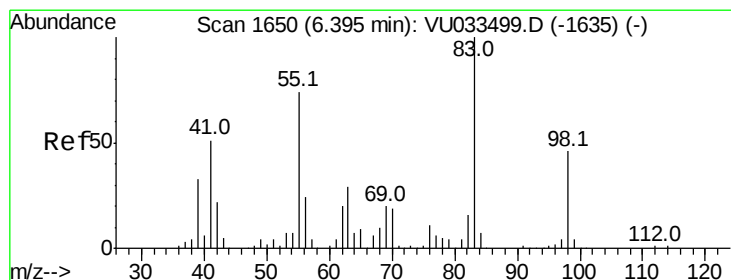
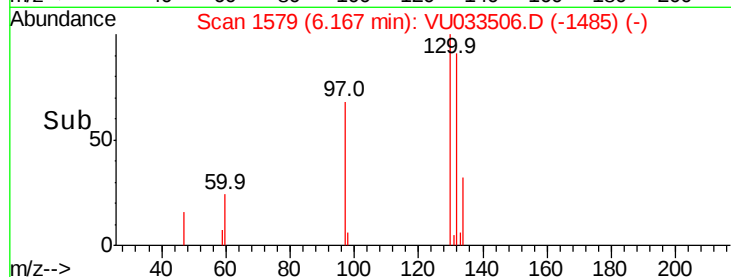
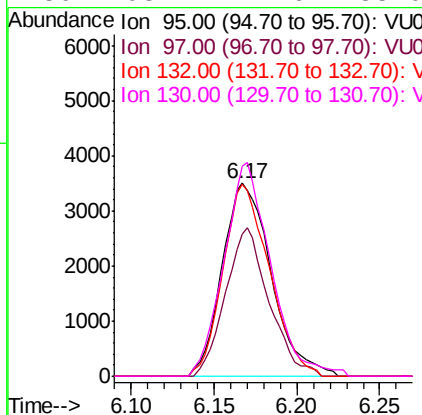
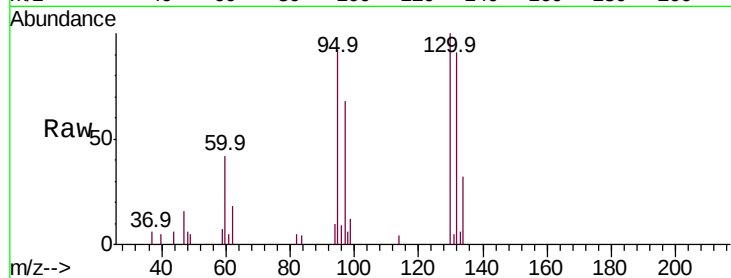
#34
 Trichloroethene
 Concen: 3.049 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot 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

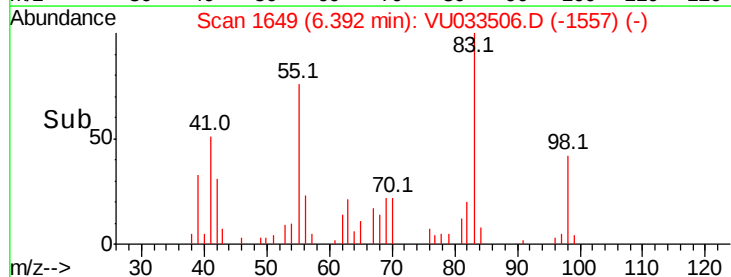
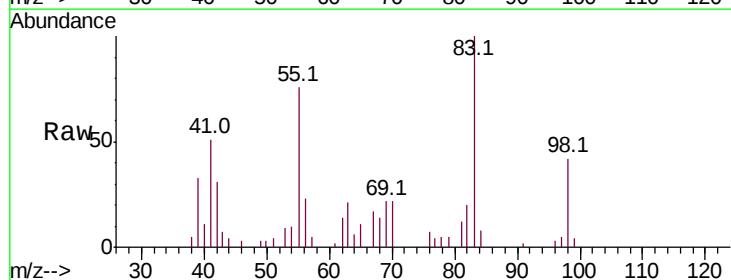
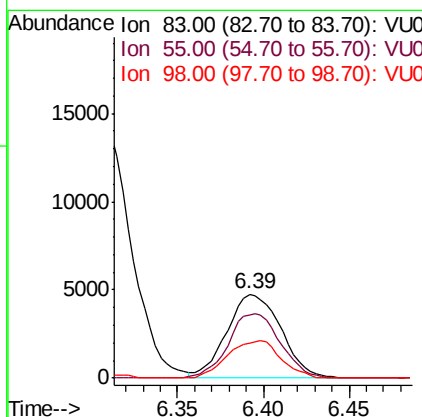
Manual Integrations
 APPROVED

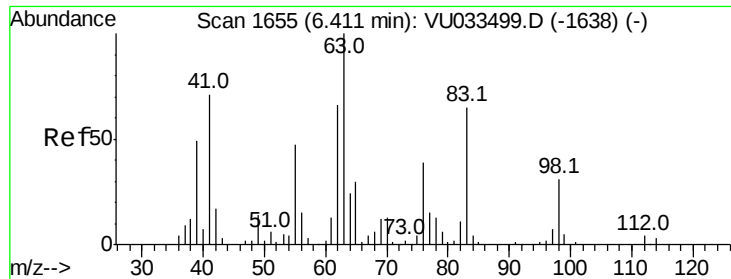
MMDadoda
 7/31/2019 10:34:13 AM



#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





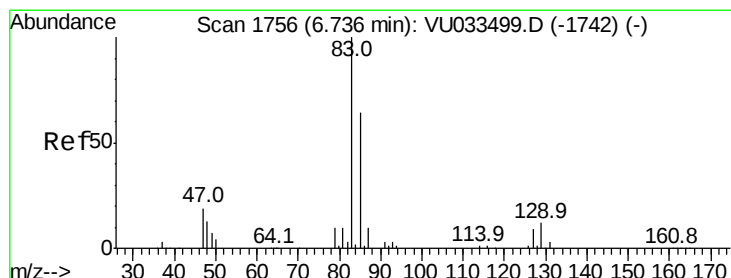
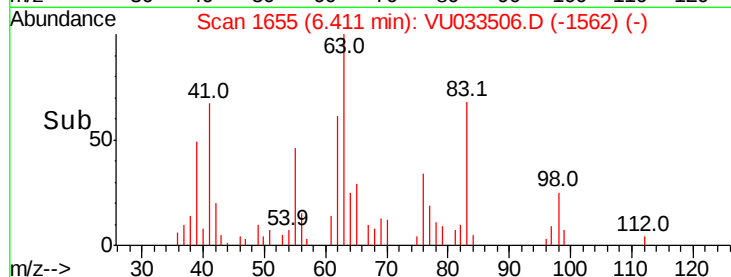
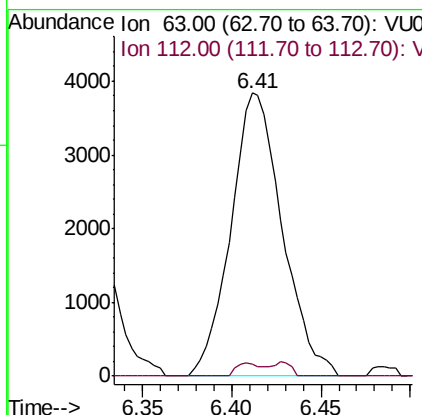
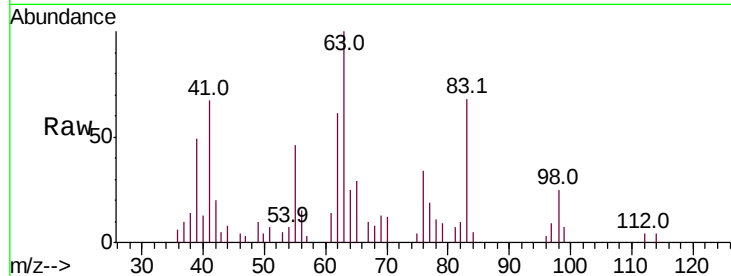
#37
 1,2-Dichloropropane
 Concen: 3.205 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

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

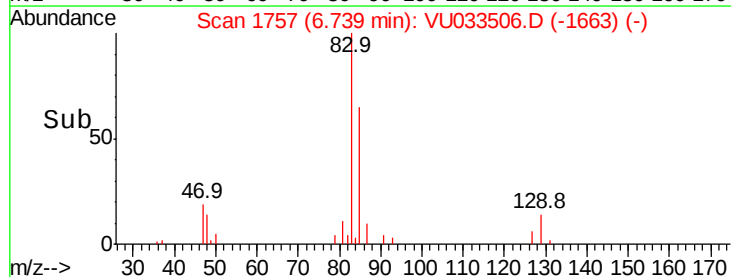
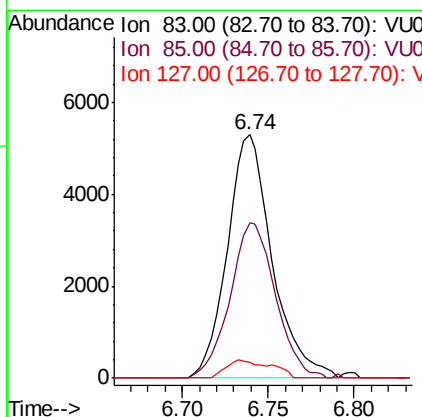
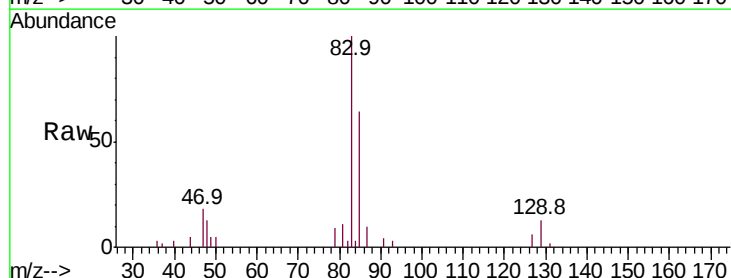
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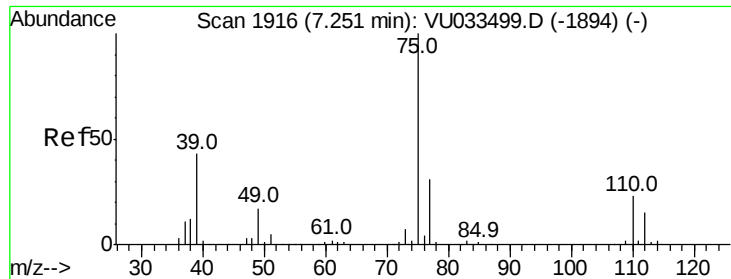
MMDadoda
 7/31/2019 10:34:13 AM



#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

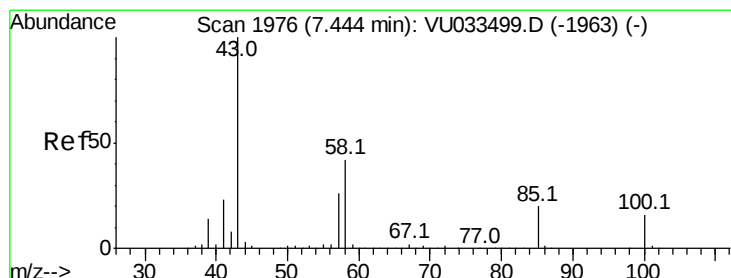
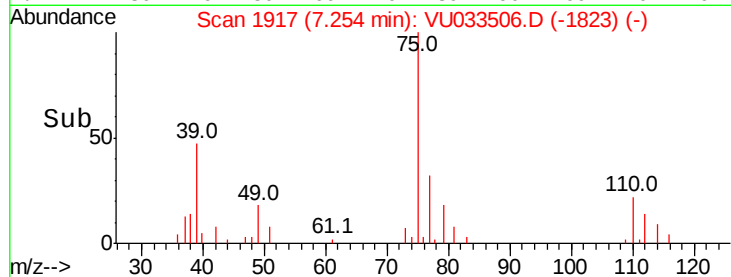
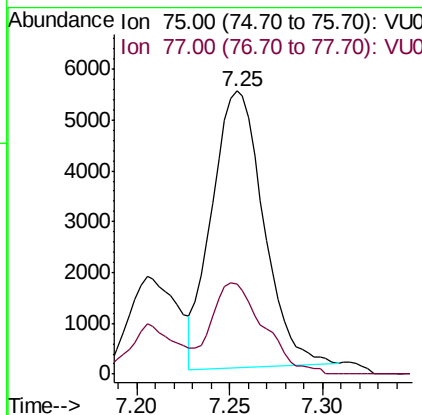
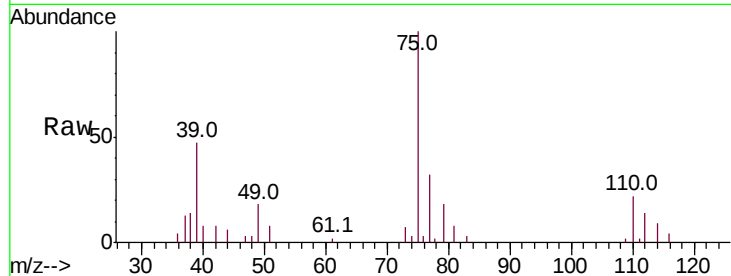
cis-1,3-Dichloropropene
Concen: 2.820 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

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

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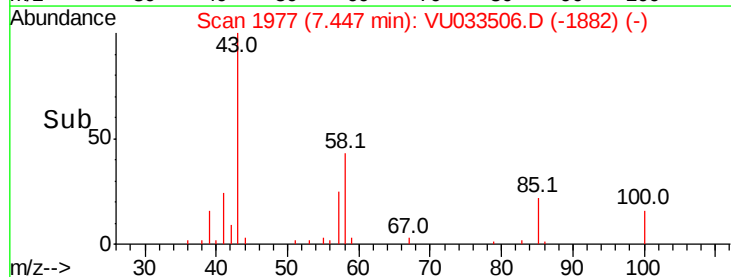
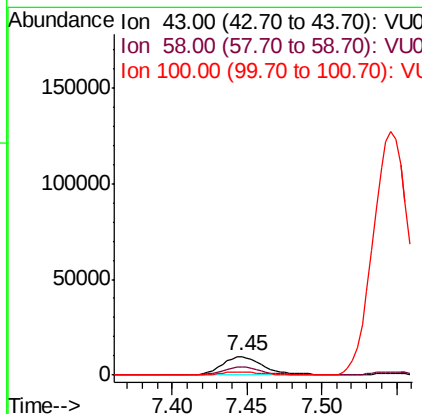
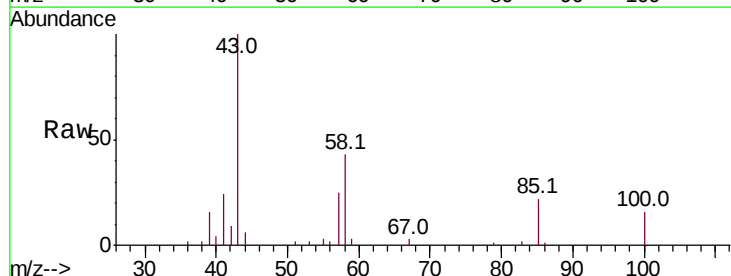
MMDadoda
7/31/2019 10:34:13 AM

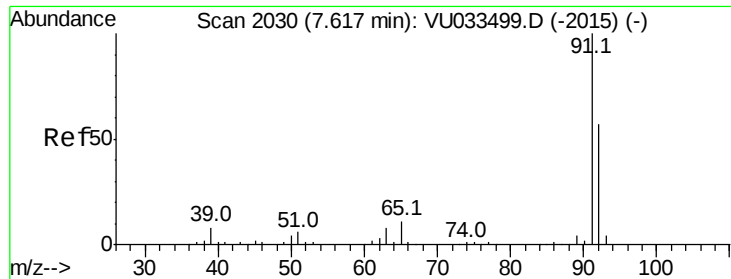


#40

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

Tot Ion: 91 Resp: 30195

Ion Ratio Lower Upper

91 100

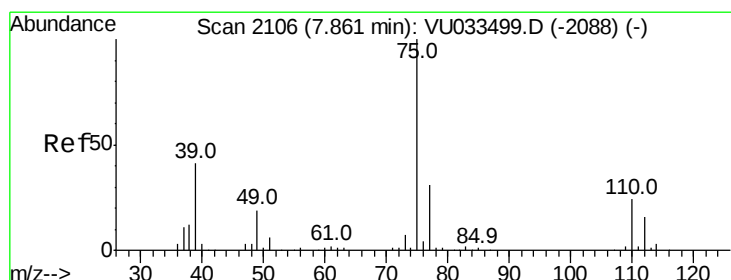
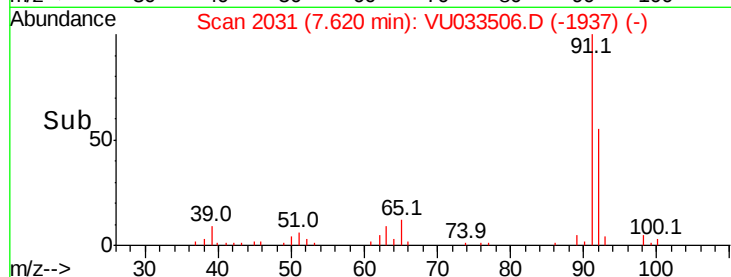
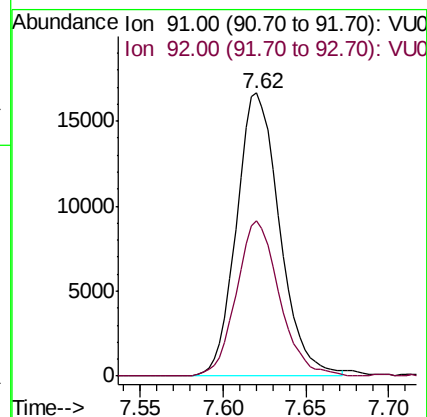
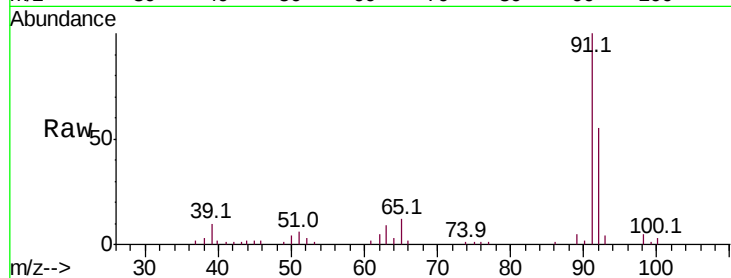
92 55.0 40.2 74.6

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#44

trans-1,3-Dichloropropene

Concen: 3.072 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033506.D

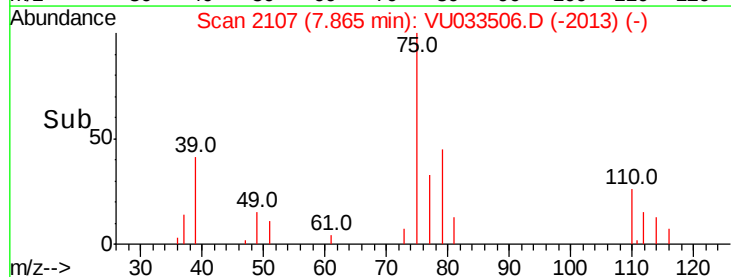
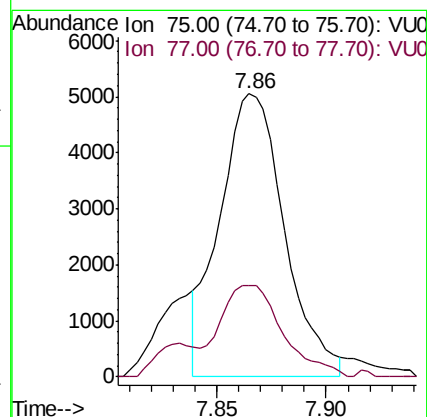
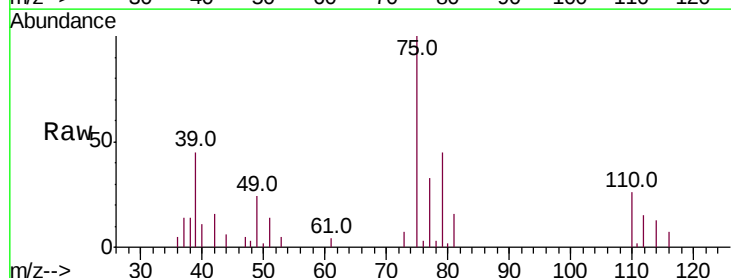
Acq: 30 Jul 2019 20:43

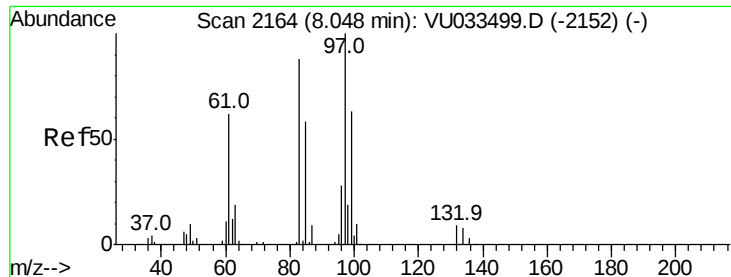
Tgt Ion: 75 Resp: 10418

Ion Ratio Lower Upper

75 100

77 32.5 22.7 42.1





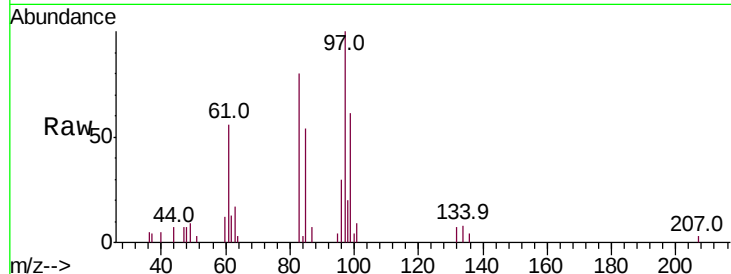
#45
 1,1,2-Trichloroethane
 Concen: 3.237 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot 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

Manual Integrations
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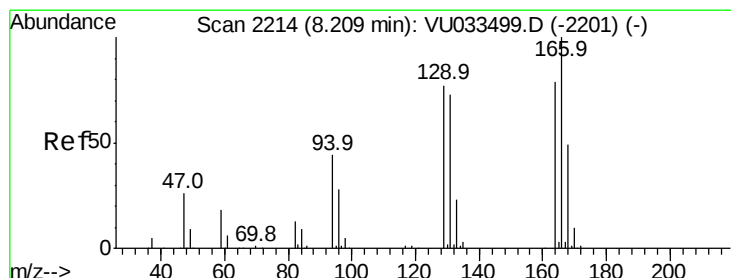
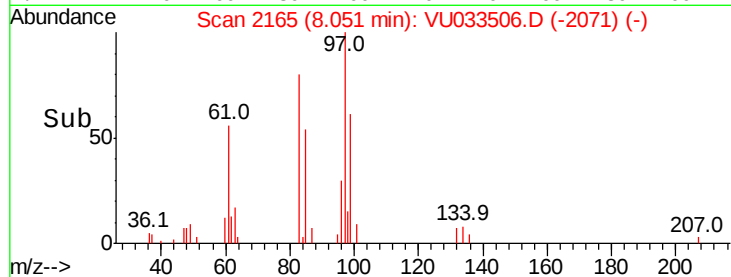
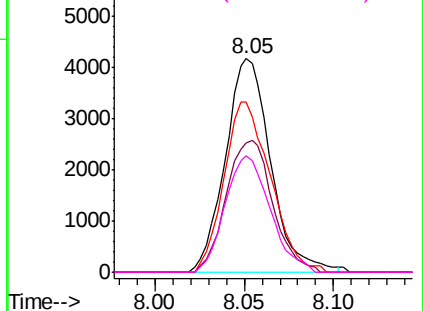
Abundance

Ion 97.00 (96.70 to 97.70): VU033499.D (-2152) (-)

Ion 99.00 (98.70 to 99.70): VU033499.D (-2152) (-)

Ion 83.00 (82.70 to 83.70): VU033499.D (-2152) (-)

Ion 85.00 (84.70 to 85.70): VU033499.D (-2152) (-)



#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

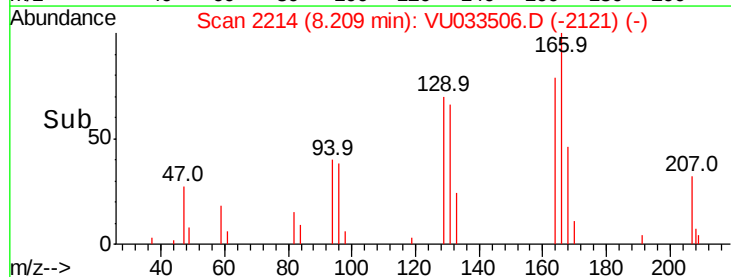
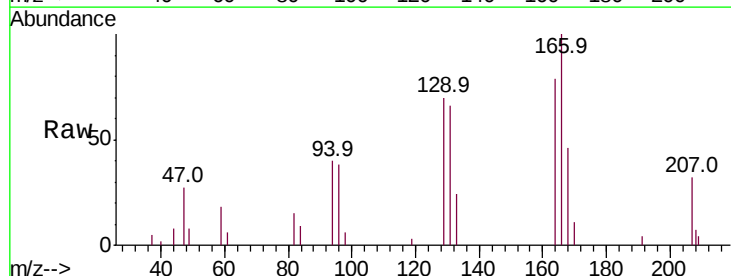
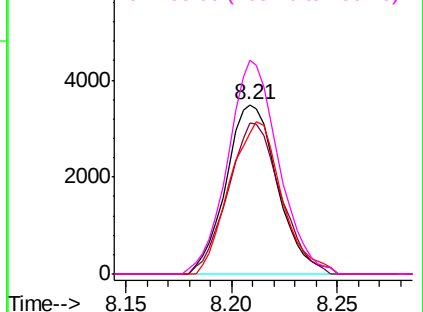
Abundance

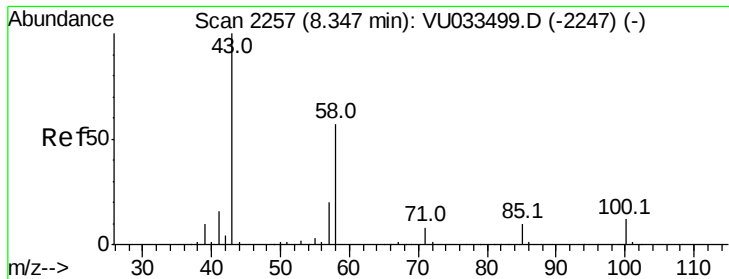
Ion 164.00 (163.70 to 164.70): VU033499.D (-2201) (-)

Ion 129.00 (128.70 to 129.70): VU033499.D (-2201) (-)

Ion 131.00 (130.70 to 131.70): VU033499.D (-2201) (-)

Ion 166.00 (165.70 to 166.70): VU033499.D (-2201) (-)





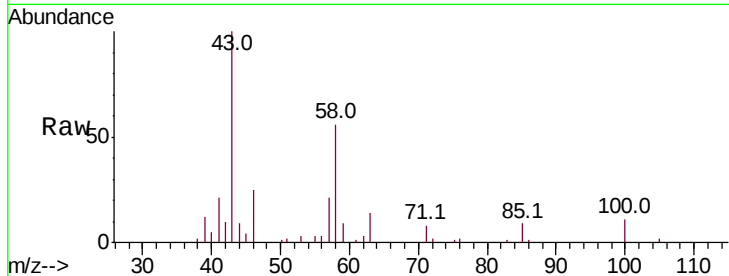
#48
2-Hexanone
Concen: 6.948 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot 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

Manual Integrations
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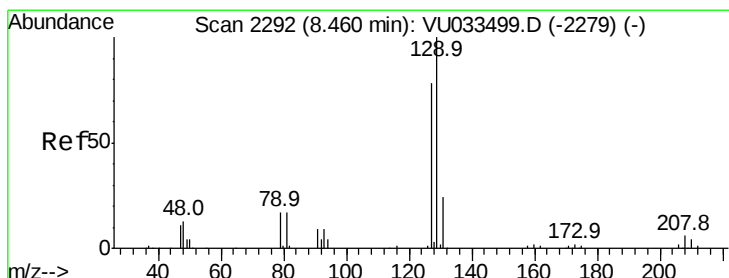
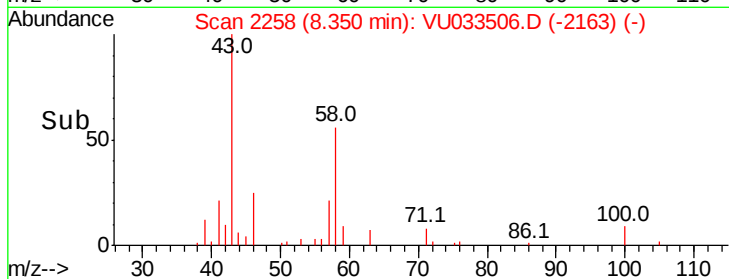
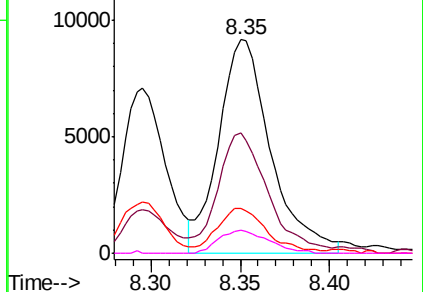
Abundance

Ion 43.00 (42.70 to 43.70): VU033499.D (-2247) (-)

Ion 58.00 (57.70 to 58.70): VU033499.D (-2247) (-)

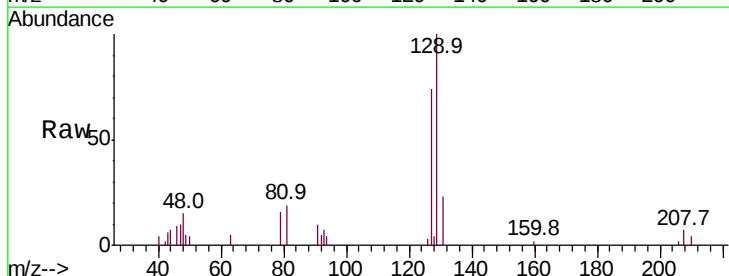
Ion 57.00 (56.70 to 57.70): VU033499.D (-2247) (-)

Ion 100.00 (99.70 to 100.70): VU033499.D (-2247) (-)



#49
Dibromochloromethane
Concen: 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

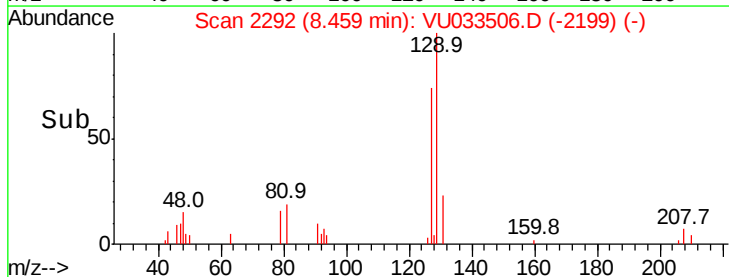
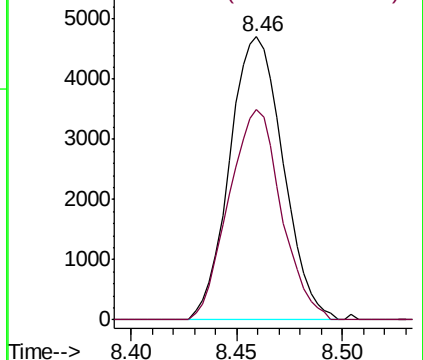
Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.5	53.8	99.8

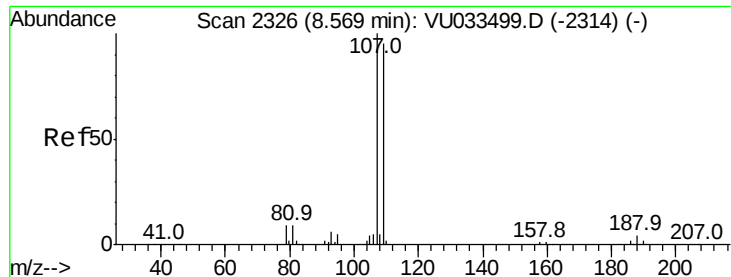


Abundance

Ion 129.00 (128.70 to 129.70): VU033499.D (-2279) (-)

Ion 127.00 (126.70 to 127.70): VU033499.D (-2279) (-)





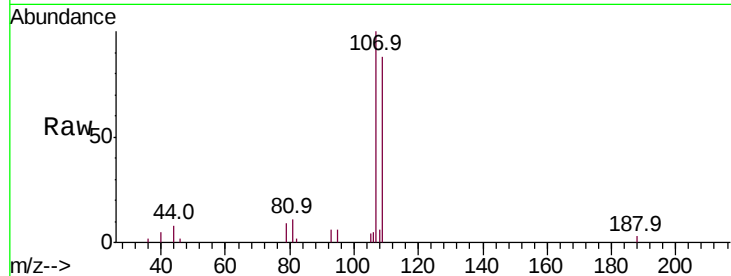
#50
1,2-Dibromoethane
Concen: 3.113 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
107	100		
109	88.1	66.8	124.0
188	3.5	3.0	4.4

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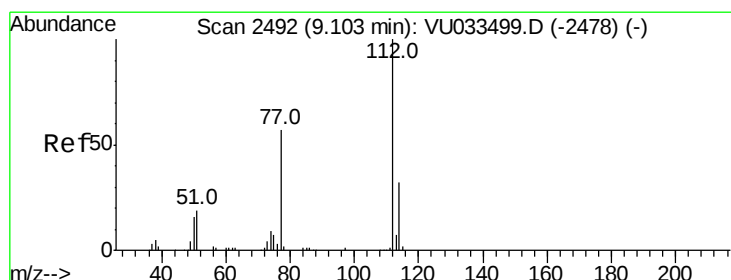
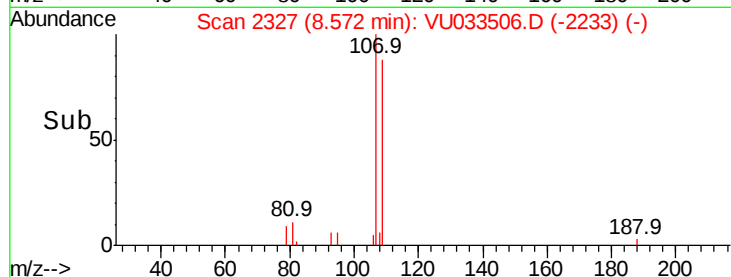
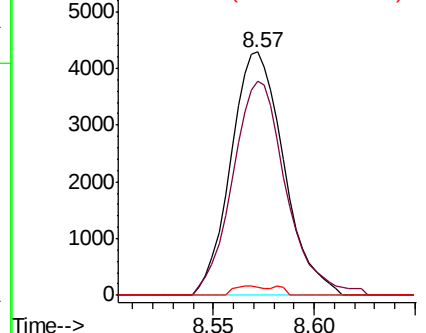


Abundance

Ion 107.00 (106.70 to 107.70): V

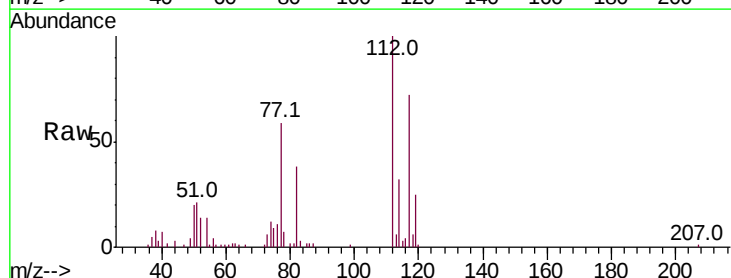
Ion 109.00 (108.70 to 109.70): V

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	Ratio	Lower	Upper
112	100		
114	31.9	22.3	41.5
77	59.3	45.6	68.4

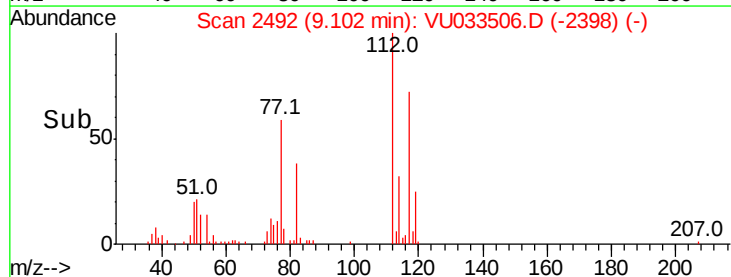
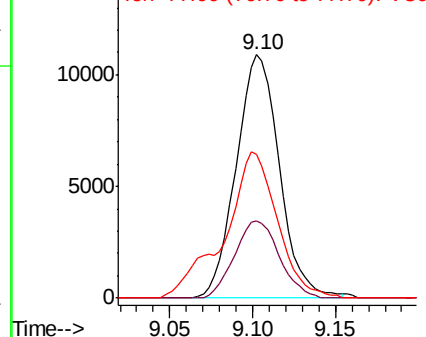


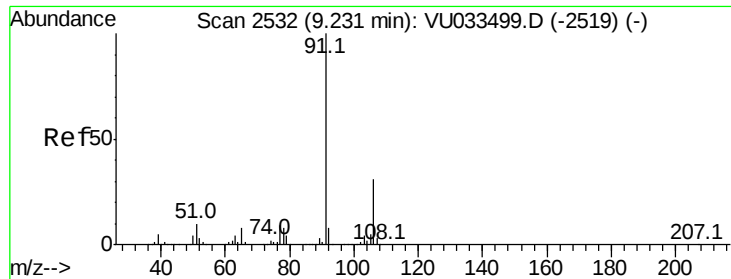
Abundance

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): VU





#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

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 30452

Ion Ratio Lower Upper

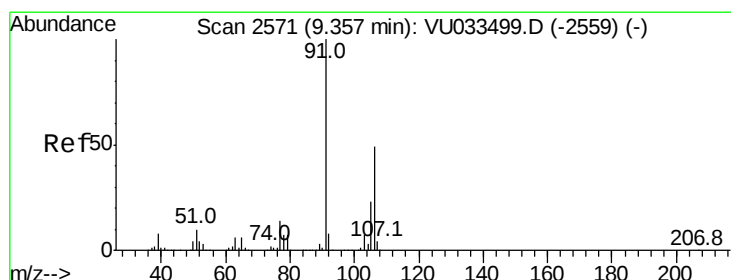
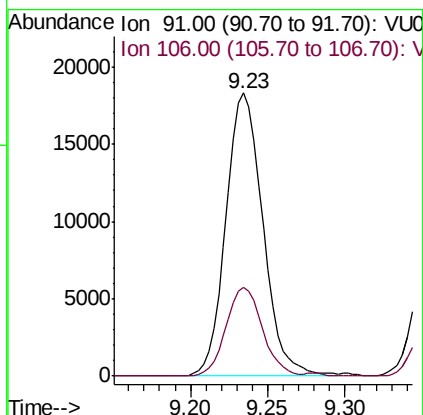
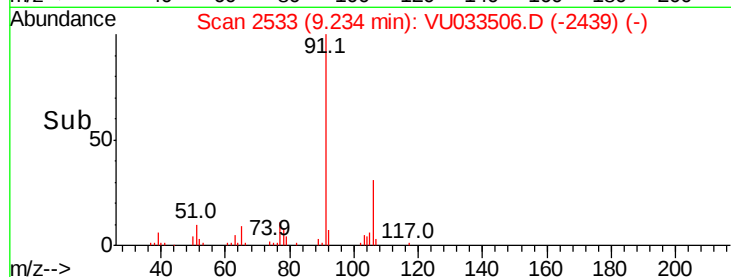
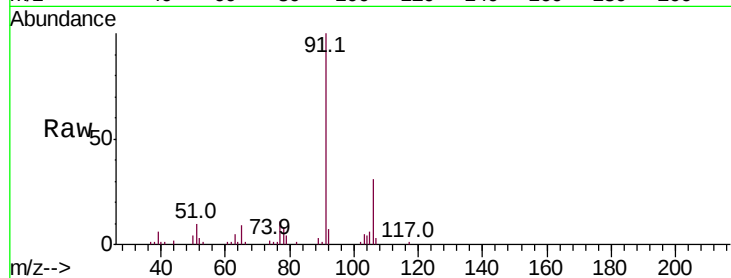
91 100

106 31.2 22.2 41.2

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#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

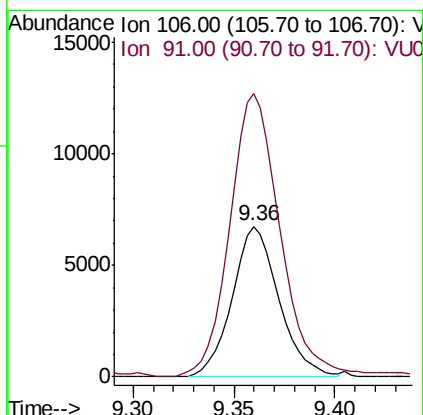
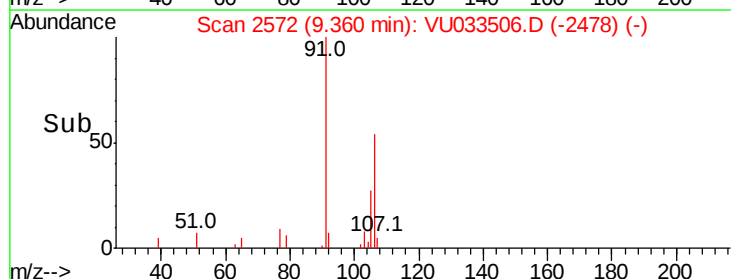
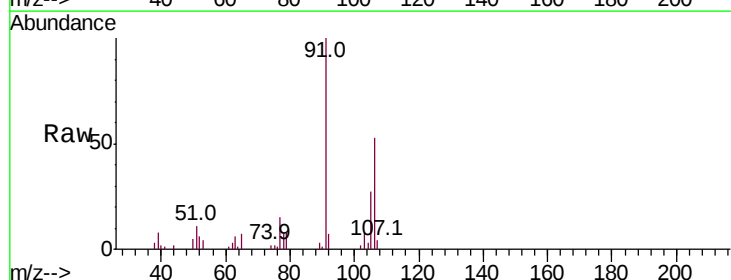
Acq: 30 Jul 2019 20:43

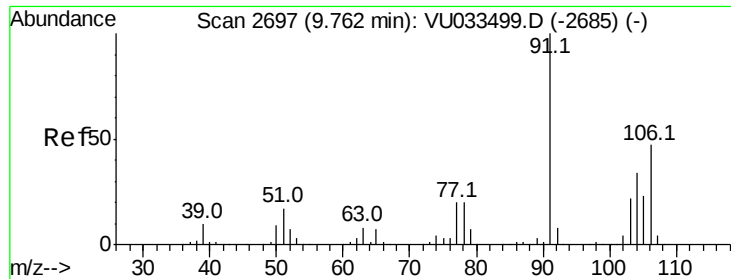
Tgt Ion: 106 Resp: 10939

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

Tot Ion:106 Resp: 10404

Ion Ratio Lower Upper

106 100

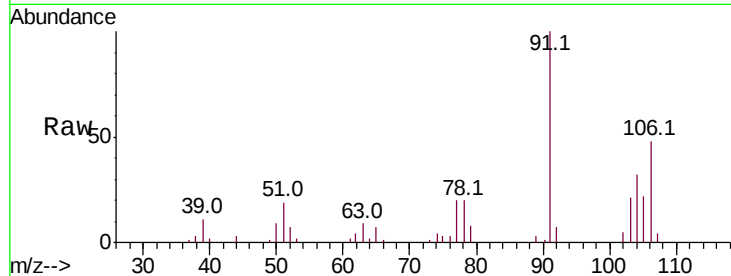
91 208.8 148.4 275.6

Manual Integrations

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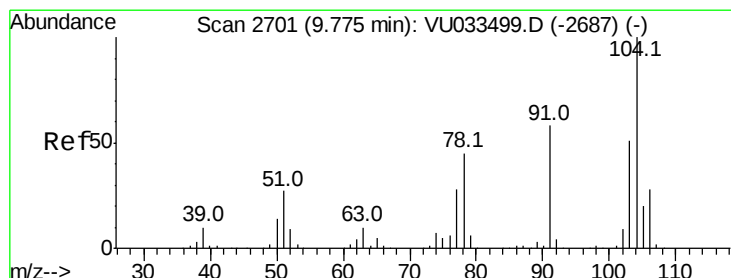
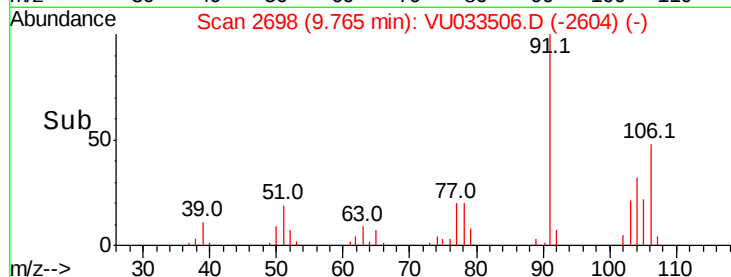
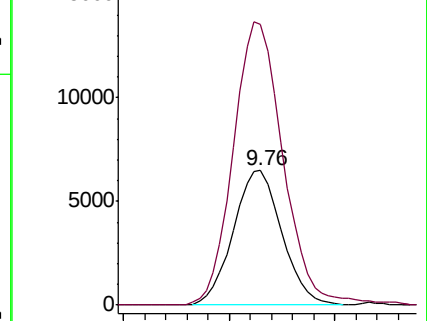
MMDadoda

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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

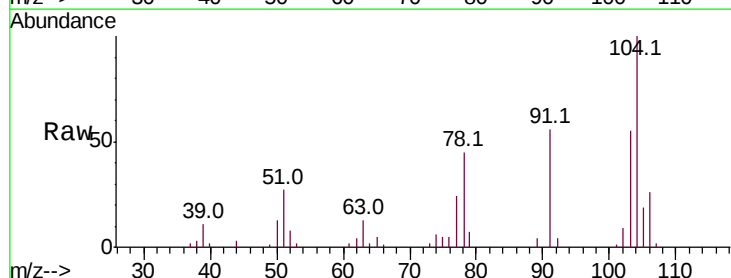
Acq: 30 Jul 2019 20:43

Tgt Ion:104 Resp: 17394

Ion Ratio Lower Upper

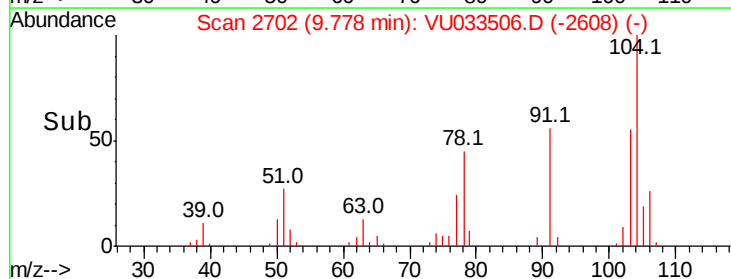
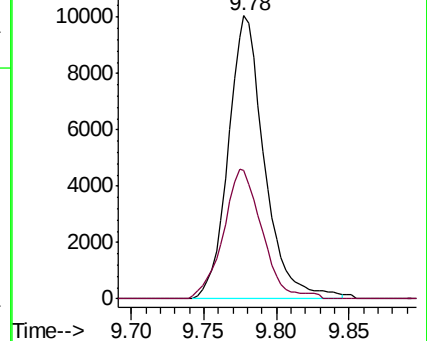
104 100

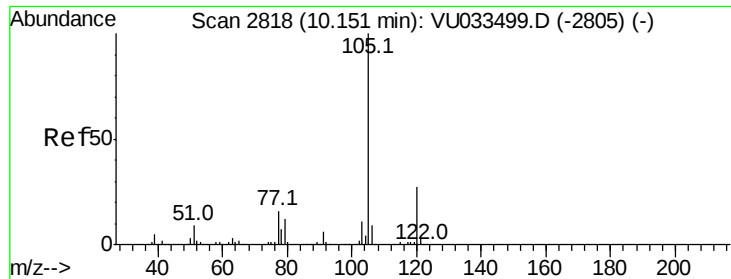
78 45.4 32.2 59.8



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

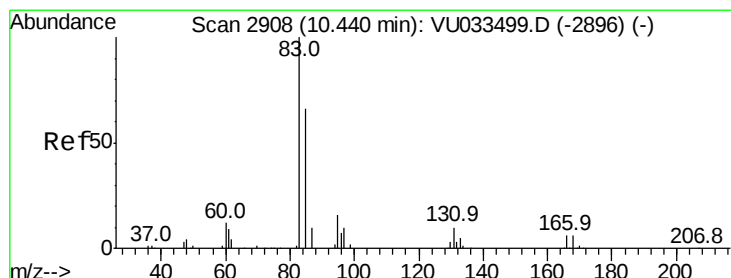
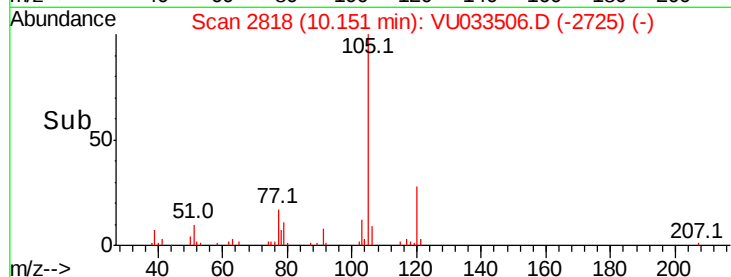
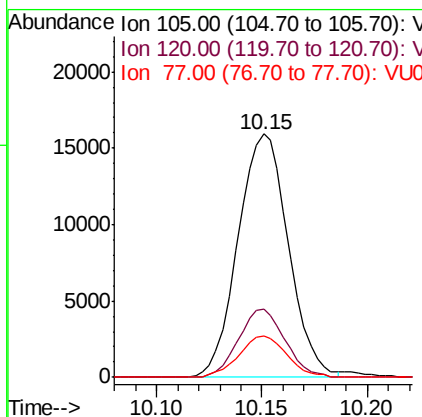
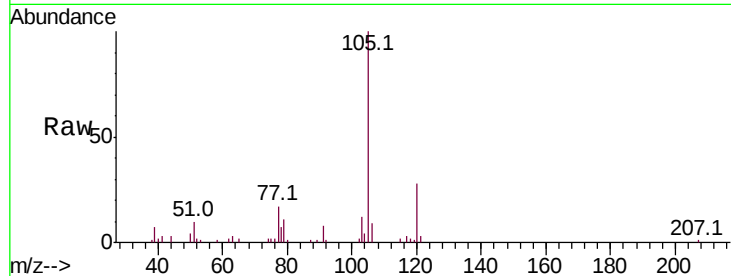
ClientSampleId :

MDL06

Tot Ion:	105	Resp:	26413
Ion Ratio	Lower	Upper	
105	100		
120	25.8	21.4	32.0
77	16.2	12.5	18.7

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#58

1,1,2,2-Tetrachloroethane

Concen: 3.340 ug/L

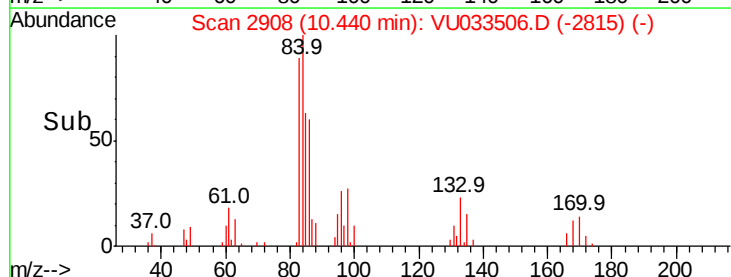
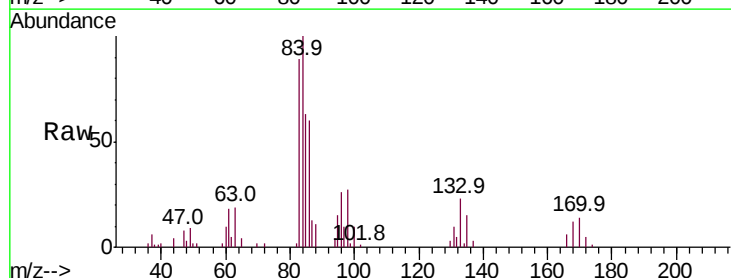
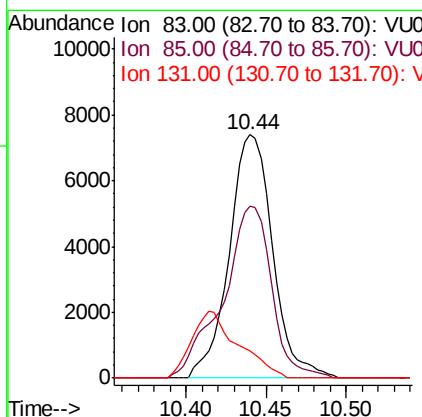
RT: 10.44 min Scan# 2908

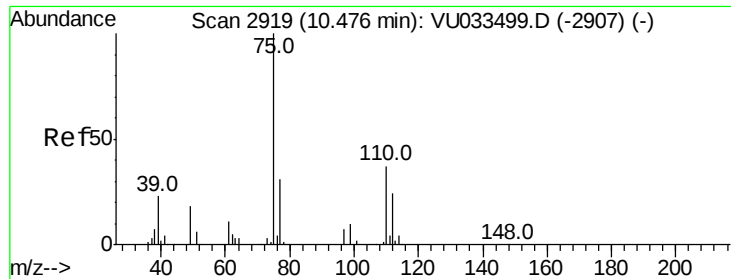
Delta R.T. -0.00 min

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





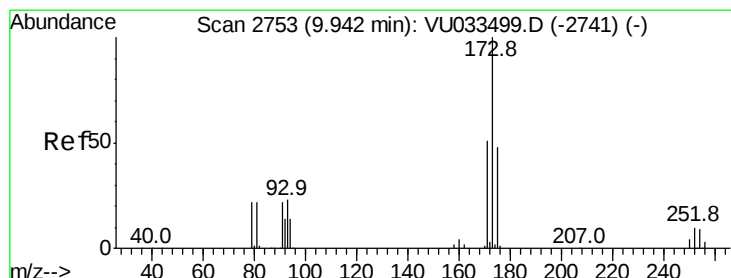
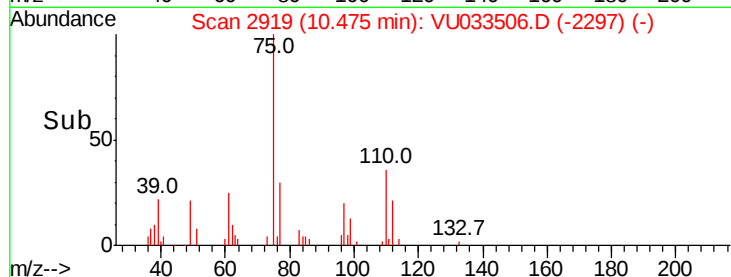
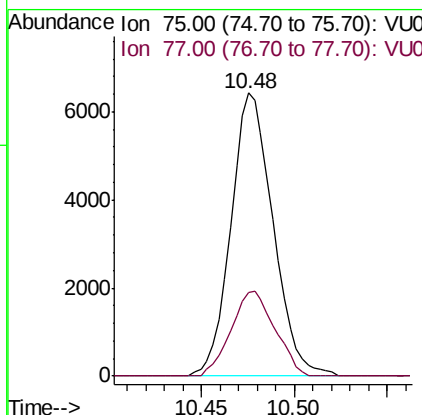
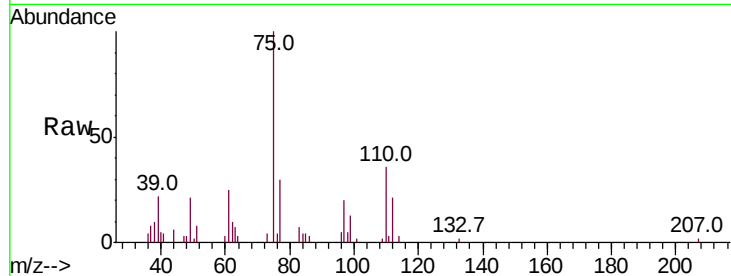
#59
 1,2,3-Trichloropropane
 Concen: 3.189 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion: 75 Resp: 10121
 Ion Ratio Lower Upper
 75 100
 77 31.2 25.8 38.6

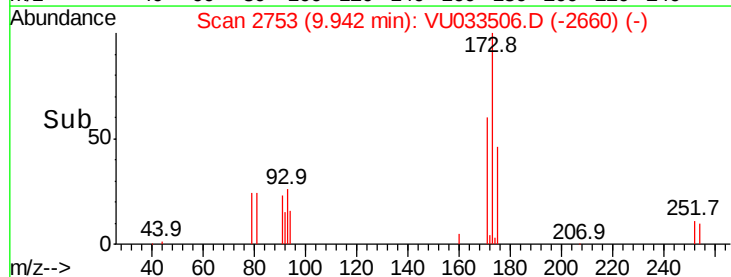
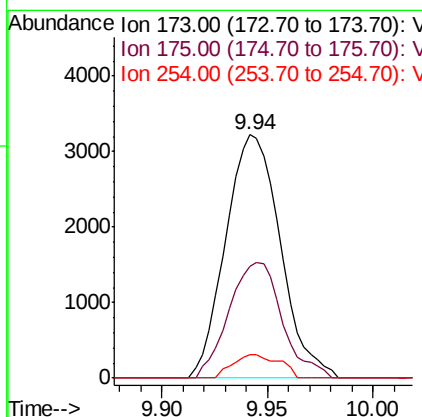
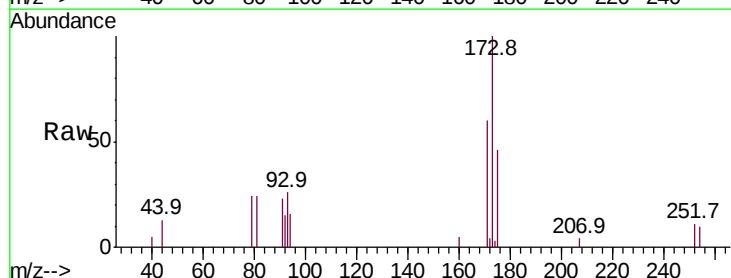
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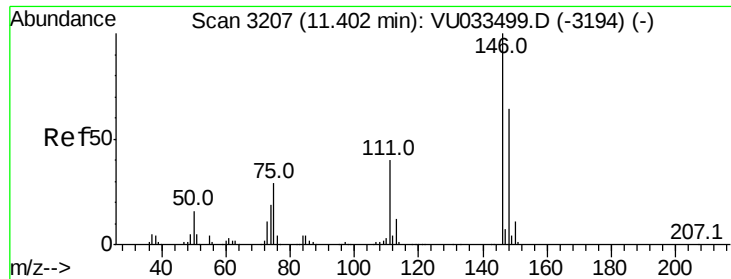
MMDadoda
 7/31/2019 10:34:13 AM



#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





#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

ClientSampled :

MDL06

Tot Ion:146 Resp: 14878

Ion Ratio Lower Upper

146 100

111 43.6 28.1 52.1

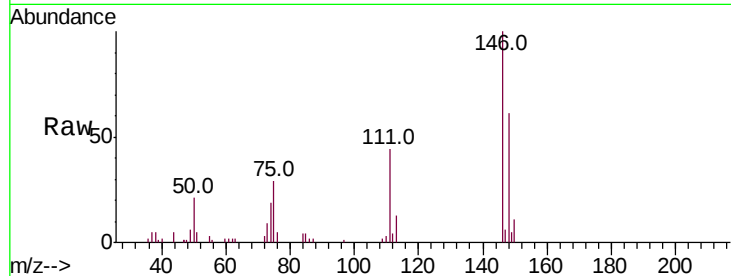
148 61.4 45.0 83.6

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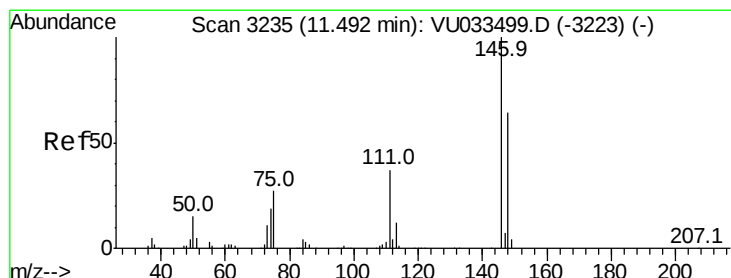
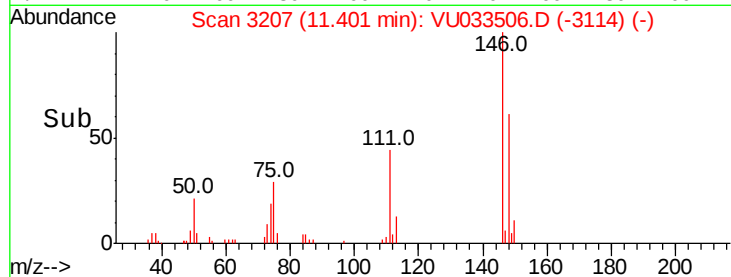
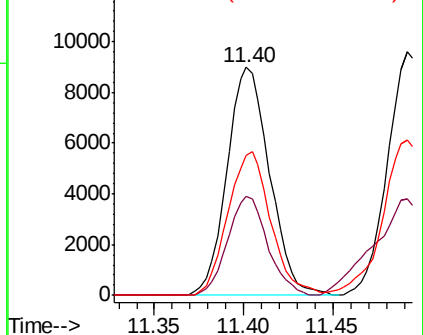
7/31/2019 10:34:13 AM



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: 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

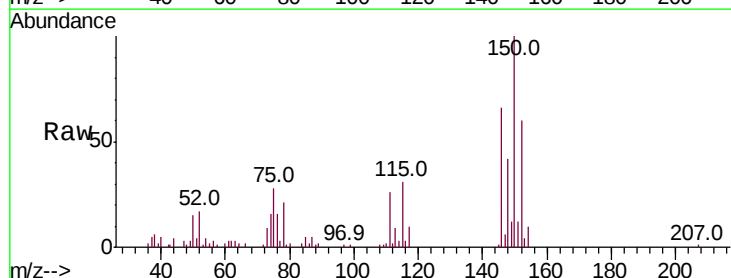
Tgt Ion:146 Resp: 15660

Ion Ratio Lower Upper

146 100

111 39.7 27.2 50.4

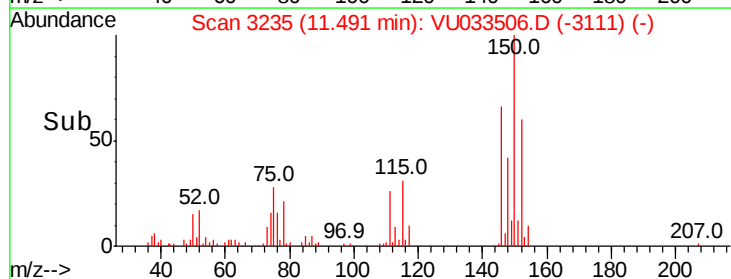
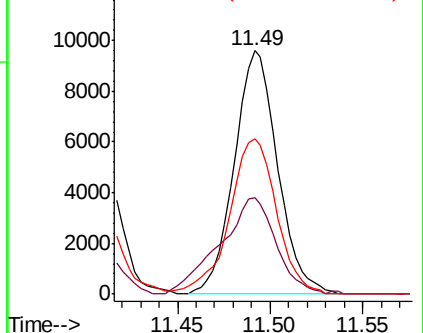
148 63.8 44.5 82.7

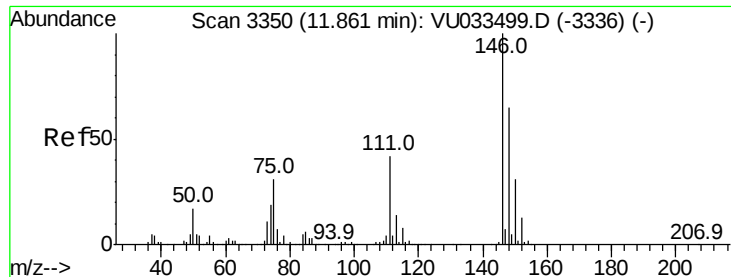


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 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

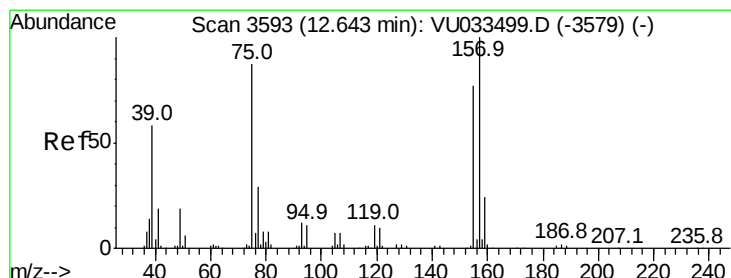
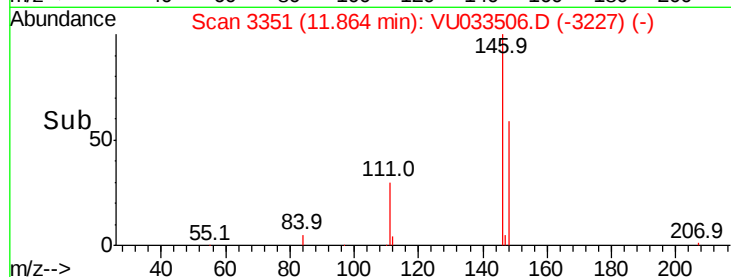
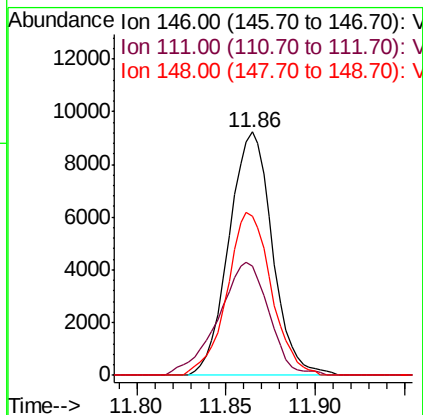
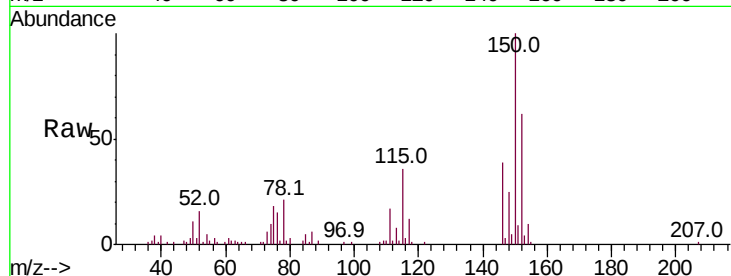
ClientSampled :

MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	31.7	47.5
148	65.2	50.3	75.5

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#66

1,2-Dibromo-3-chloropropane

Concen: 2.948 ug/L

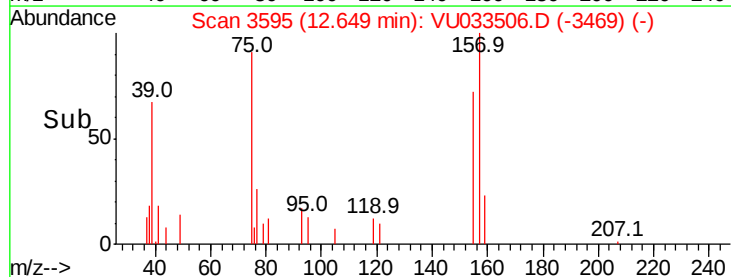
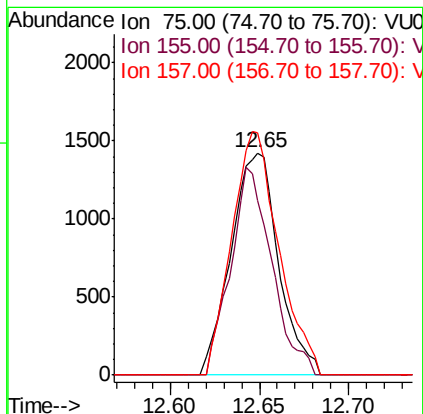
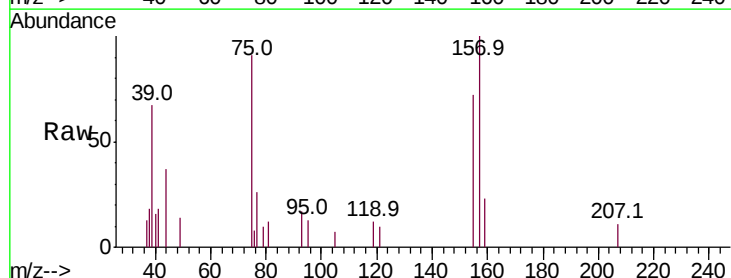
RT: 12.65 min Scan# 3595

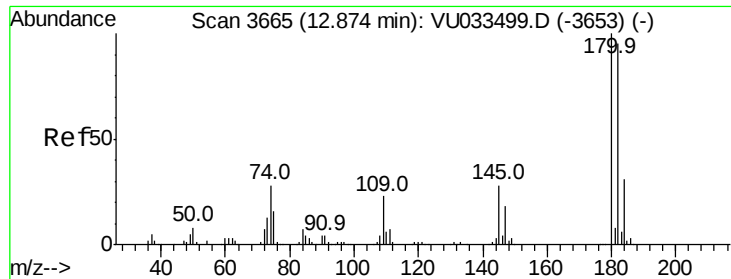
Delta R.T. 0.01 min

Lab File: VU033506.D

Acq: 30 Jul 2019 20:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.6	69.4	104.0
157	109.4	91.8	137.8





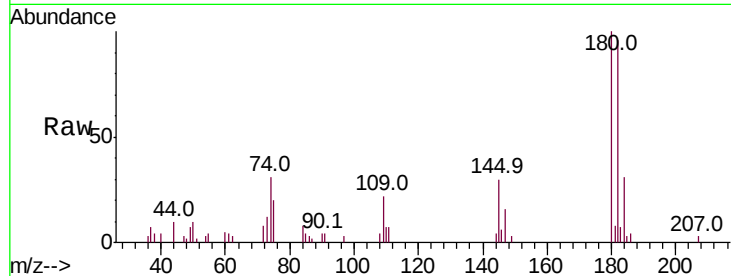
#67
 1,3,5-Trichlorobenzene
 Concen: 2.593 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033506.D
 Acq: 30 Jul 2019 20:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot 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

Manual Integrations
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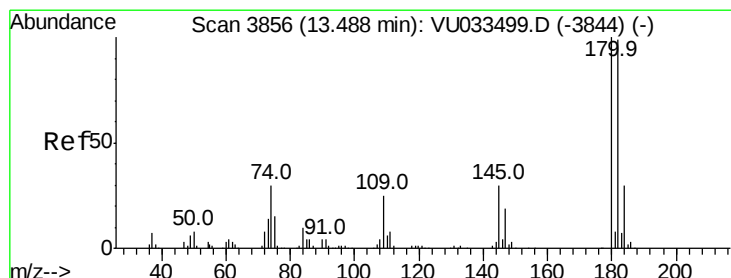
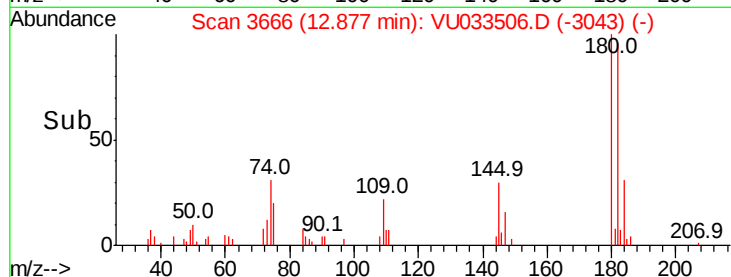
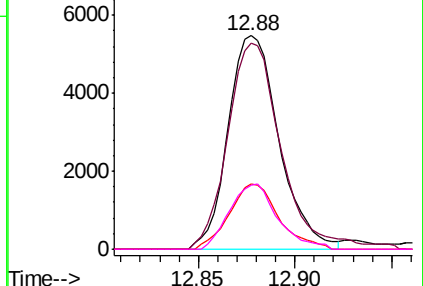
Abundance

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

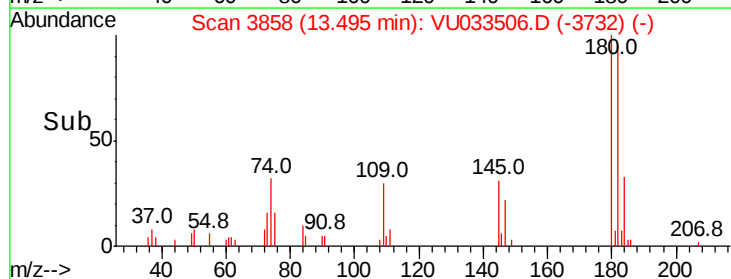
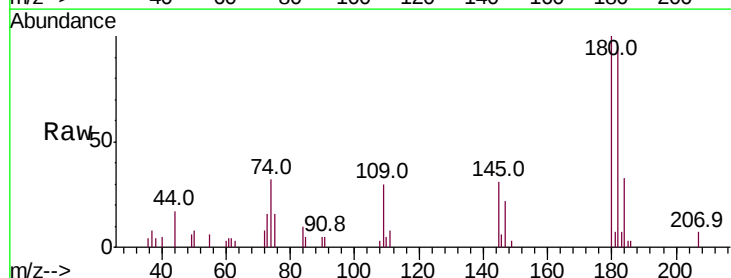
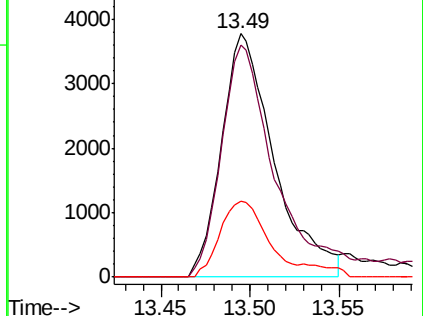
Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.8	113.8
145	27.6	24.3	36.5

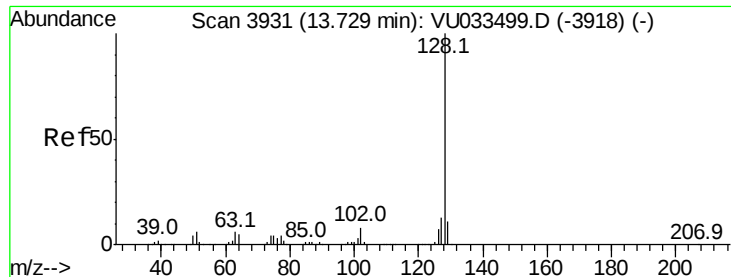
Abundance

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





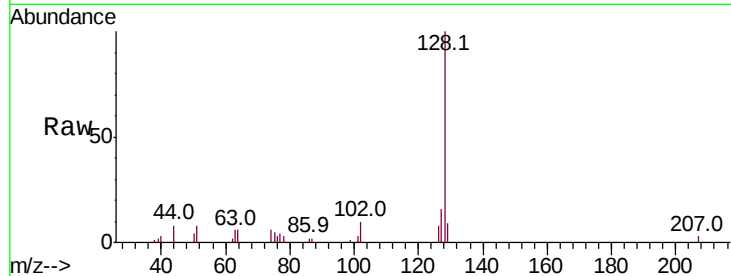
#69
Naphthalene
Concen: 2.025 ug/L
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033506.D
Acq: 30 Jul 2019 20:43

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.8	16.2
129	10.6	8.7	13.1

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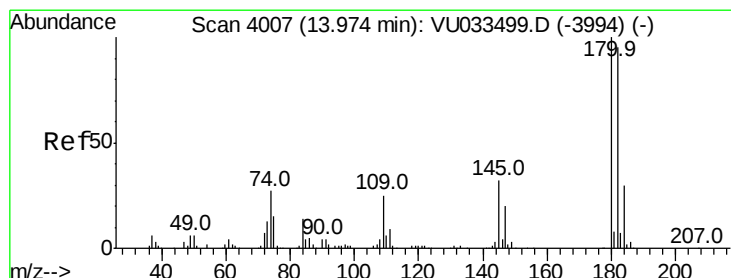
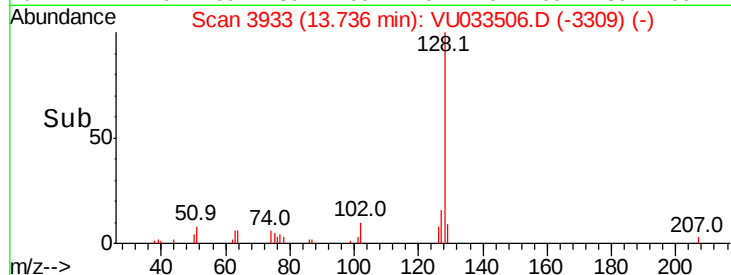
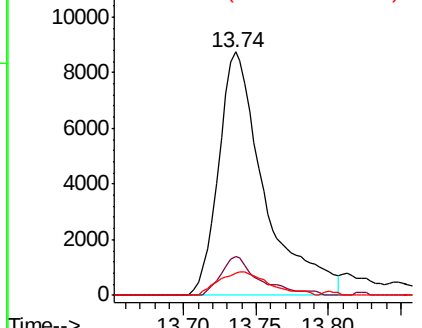


Abundance

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	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

