

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\
 Data File : VU033503.D
 Acq On : 30 Jul 2019 19:34
 Operator : JC/SP
 Sample : MDL03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 7/31/2019 10:34:03 AM

Quant Time: Jul 31 08:27:28 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	335040	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	333257	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	165120	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	103457	42.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.94%
7) Chloroethane-d5	1.67	69	89419	42.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.56%
11) 1,1-Dichloroethene-d2	2.26	63	144126	32.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.20%
21) 2-Butanone-d5	4.15	46	150580	93.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.33%
24) Chloroform-d	4.62	84	179709	44.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.02%
26) 1,2-Dichloroethane-d4	5.28	65	118077	45.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.32%
32) Benzene-d6	5.32	84	374040	45.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.56%
36) 1,2-Dichloropropane-d6	6.31	67	117891	45.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.04%
41) Toluene-d8	7.55	98	337103	43.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.08%
43) trans-1,3-Dichloropropene-	7.83	79	55940	43.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.10%
47) 2-Hexanone-d5	8.29	63	111555	90.73	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.73%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	174420	43.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.36%
64) 1,2-Dichlorobenzene-d4	11.85	152	136814	45.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	7645	2.420	ug/L	100
3) Chloromethane	1.32	50	8679	2.727	ug/L	96
5) Vinyl chloride	1.39	62	8747	2.564	ug/L #	65
6) Bromomethane	1.62	94	5574	1.852	ug/L	93
8) Chloroethane	1.69	64	5465	2.636	ug/L	90
9) Trichlorofluoromethane	1.87	101	11331	2.539	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6804	3.007	ug/L #	82
12) 1,1-Dichloroethene	2.27	96	6715	3.095	ug/L #	1
13) Acetone	2.31	43	7728	4.682	ug/L	99
14) Carbon disulfide	2.46	76	18008	2.646	ug/L	96
15) Methyl Acetate	2.60	43	6216	2.365	ug/L	97
16) Methylene chloride	2.68	84	6445	2.601	ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	5502	2.420	ug/L	98
18) Methyl tert-butyl Ether	2.98	73	15809	2.281	ug/L	97
19) 1,1-Dichloroethane	3.43	63	10456	2.451	ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	6616	2.593	ug/L	98
22) 2-Butanone	4.25	43	8259	4.191	ug/L #	67

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3260	2.449	ug/L	82
25) Chloroform	4.65	83	15630	3.481	ug/L	96
27) 1,2-Dichloroethane	5.39	62	9165	2.651	ug/L	96
29) Cyclohexane	4.97	56	8158	2.244	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	9244	2.411	ug/L	97
31) Carbon tetrachloride	5.11	117	8033	2.406	ug/L	99
33) Benzene	5.37	78	24542	2.553	ug/L	100
34) Trichloroethene	6.17	95	6243	2.462	ug/L	96
35) Methylcyclohexane	6.39	83	8921	2.254	ug/L	98
37) 1,2-Dichloropropane	6.41	63	7084	2.753	ug/L #	92
38) Bromodichloromethane	6.74	83	7954	2.391	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	10000	2.490	ug/L	96
40) 4-Methyl-2-pentanone	7.44	43	16509	4.646	ug/L	99
42) Toluene	7.62	91	25389	2.456	ug/L	94
44) trans-1,3-Dichloropropene	7.86	75	8783m	2.420	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	6103	2.498	ug/L	94
46) Tetrachloroethene	8.21	164	5236	2.529	ug/L	99
48) 2-Hexanone	8.35	43	14174	4.935	ug/L	98
49) Dibromochloromethane	8.46	129	6449	2.320	ug/L	96
50) 1,2-Dibromoethane	8.58	107	6515	2.408	ug/L #	86
51) Chlorobenzene	9.10	112	17182	2.539	ug/L	95
52) Ethylbenzene	9.23	91	24614	2.211	ug/L	99
53) m,p-Xylene	9.36	106	9406	2.201	ug/L	98
54) o-xylene	9.76	106	8738	2.108	ug/L	97
55) Styrene	9.78	104	14201	2.017	ug/L	96
56) Isopropylbenzene	10.15	105	22612	2.088	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.44	83	11592	2.631	ug/L #	88
59) 1,2,3-Trichloropropane	10.48	75	8428	2.481	ug/L	100
61) Bromoform	9.94	173	4578	2.295	ug/L #	94
62) 1,3-Dichlorobenzene	11.40	146	12863	2.537	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	13779	2.615	ug/L	95
65) 1,2-Dichlorobenzene	11.86	146	13966	2.724	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2303	2.431	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	9333	2.281	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	6862	1.963	ug/L	93
69) Naphthalene	13.74	128	15621	1.558	ug/L	94
70) 1,2,3-Trichlorobenzene	13.98	180	7160	1.948	ug/L	97

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

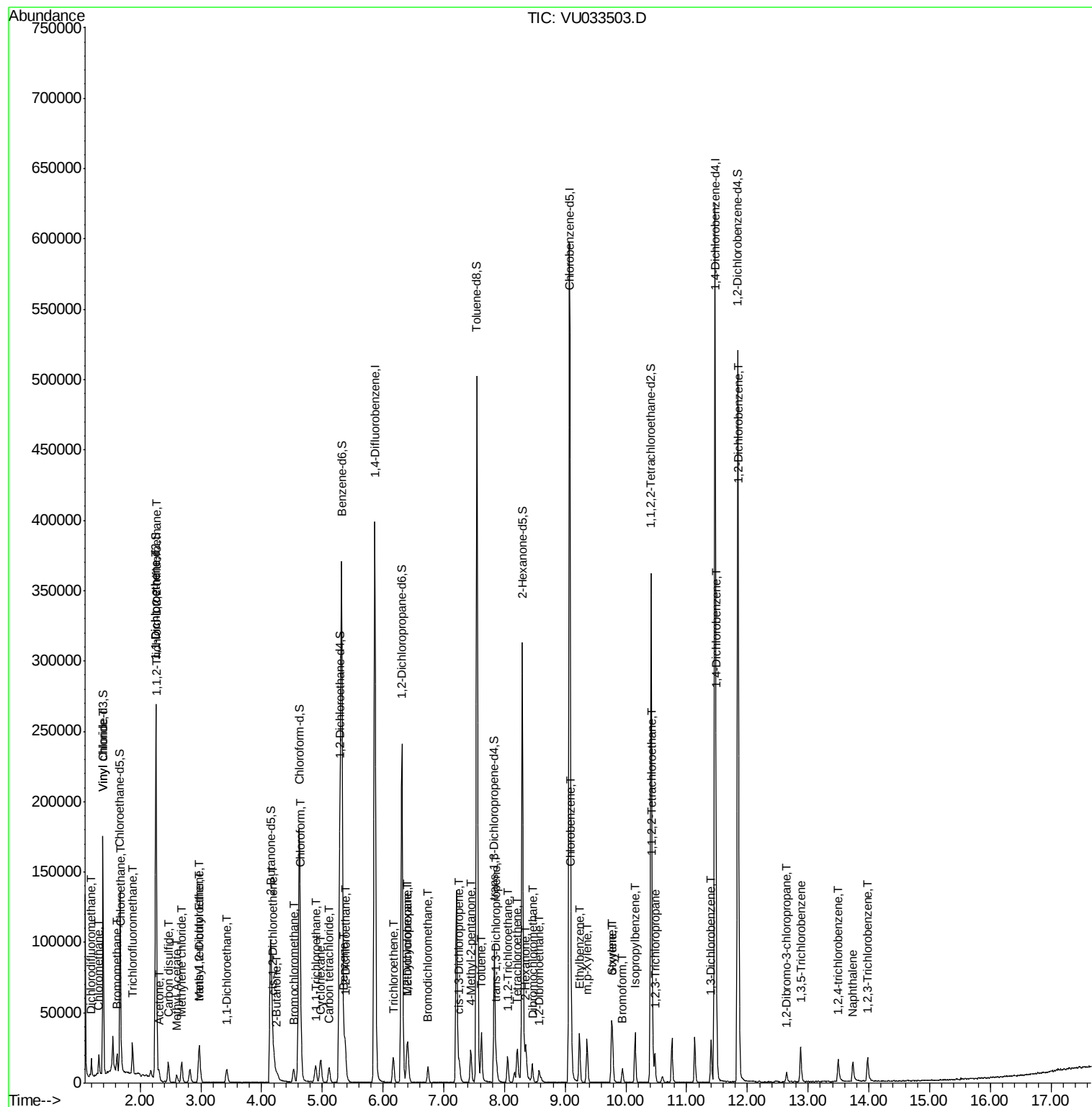
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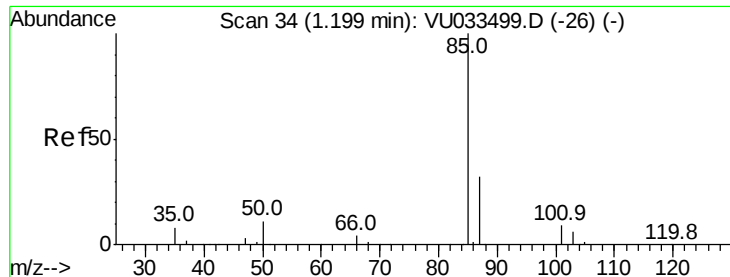
Instrument :
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#2

Dichlorodifluoromethane

Concen: 2.420 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 7645

Ion Ratio Lower Upper

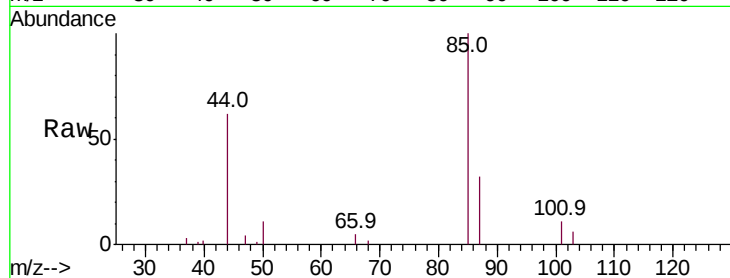
85 100

87 31.6 25.4 38.2

Manual Integrations
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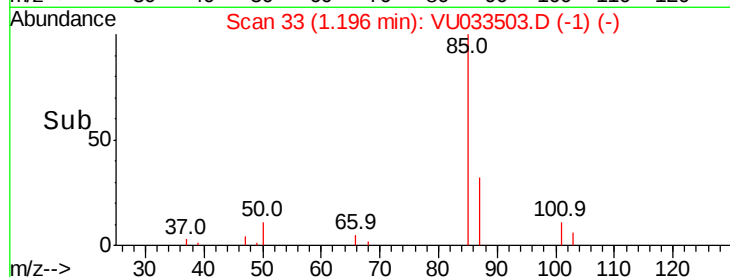


Abundance Ion 85.00 (84.70 to 85.70): VU033503.D (-1) (-)

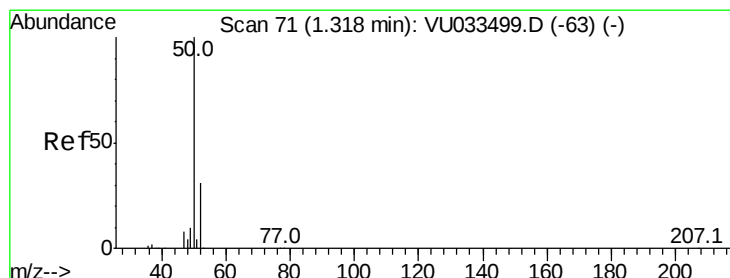
Ion 87.00 (86.70 to 87.70): VU033503.D (-1) (-)

1.20

1.25



Time-->



#3

Chloromethane

Concen: 2.727 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033503.D

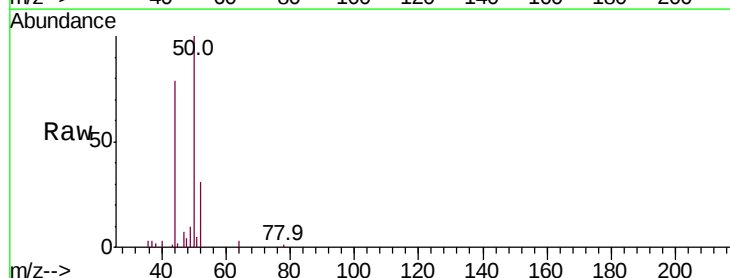
Acq: 30 Jul 2019 19:34

Tgt Ion: 50 Resp: 8679

Ion Ratio Lower Upper

50 100

52 30.9 23.1 42.9

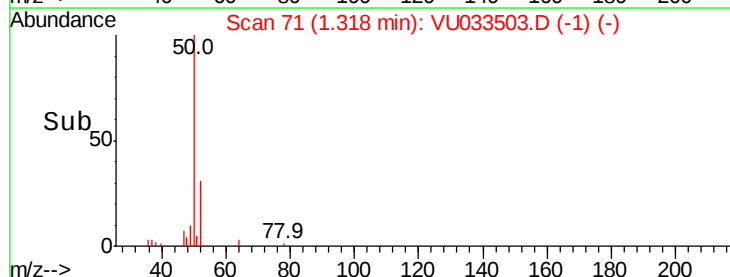


Abundance Ion 50.00 (49.70 to 50.70): VU033503.D (-1) (-)

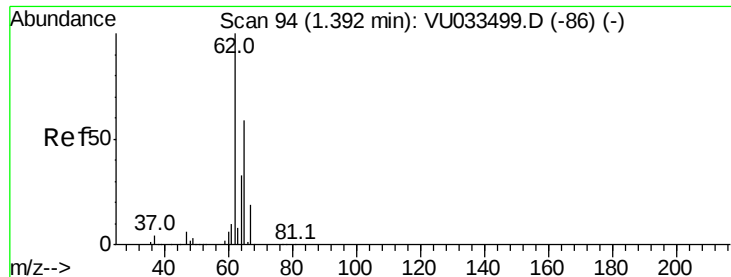
Ion 52.00 (51.70 to 52.70): VU033503.D (-1) (-)

1.32

1.36



Time-->



#5

Vinyl chloride

Concen: 2.564 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 8747

Ion Ratio Lower Upper

62 100

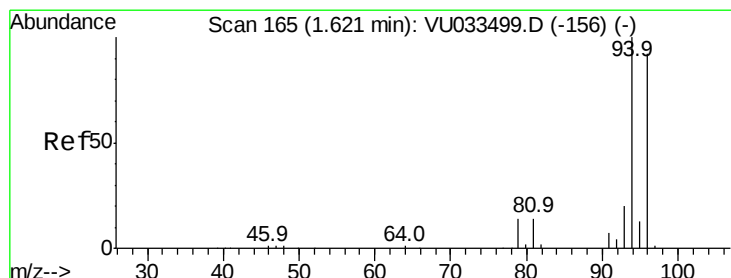
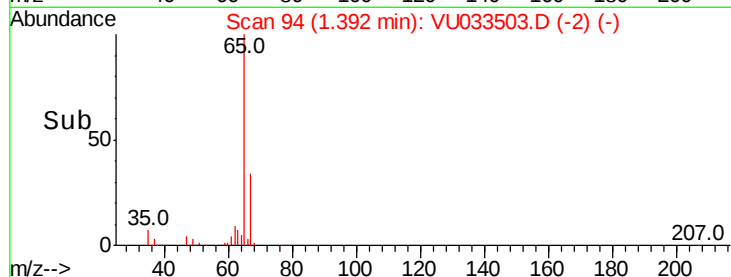
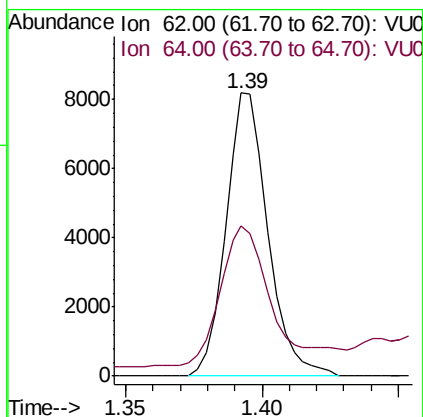
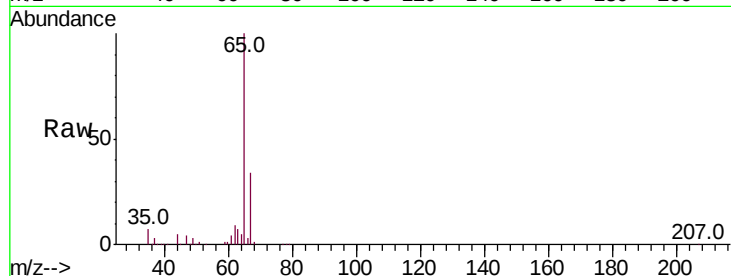
64 53.2 23.4 43.4#

Manual Integrations

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#6

Bromomethane

Concen: 1.852 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033503.D

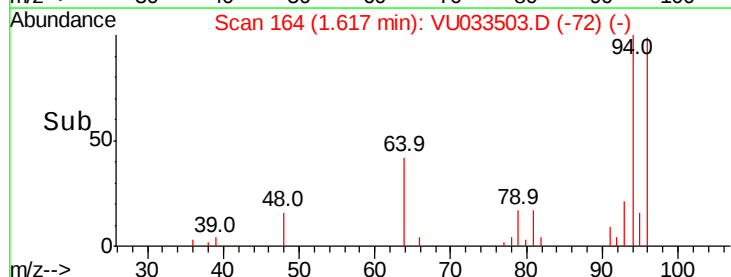
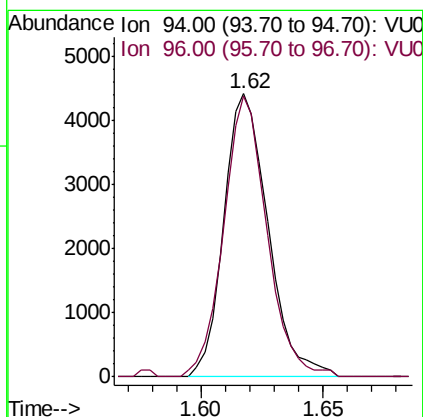
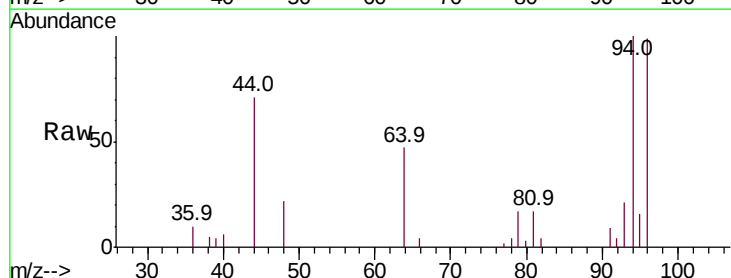
Acq: 30 Jul 2019 19:34

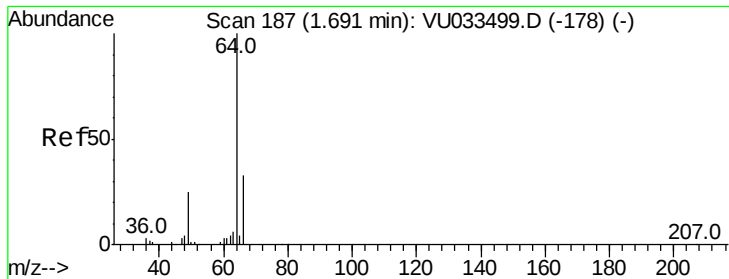
Tgt Ion: 94 Resp: 5574

Ion Ratio Lower Upper

94 100

96 99.1 64.4 119.6





#8

Chloroethane

Concen: 2.636 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 64 Resp: 5465

Ion Ratio Lower Upper

64 100

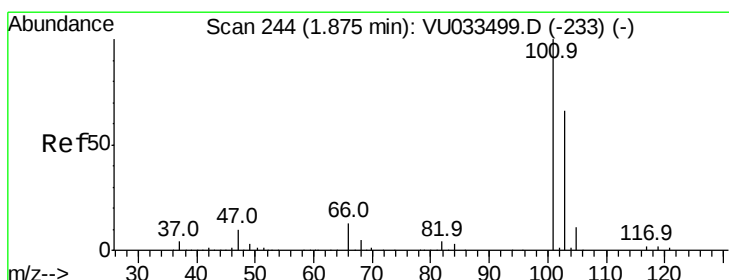
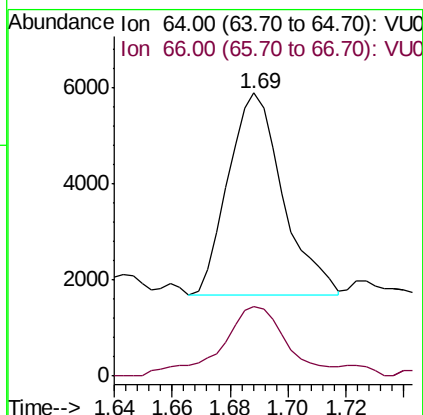
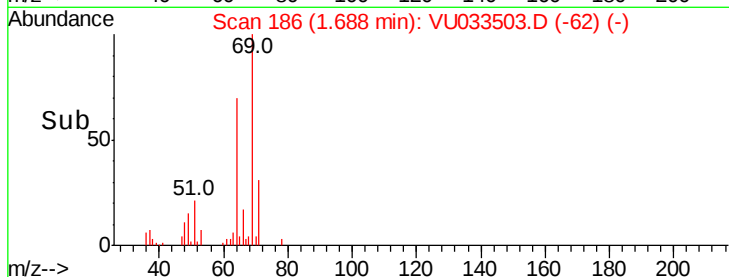
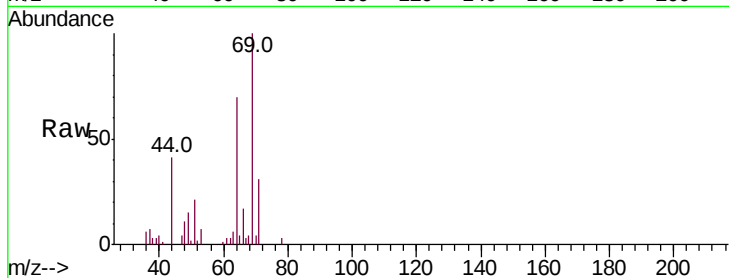
66 24.6 21.1 39.3

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.539 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033503.D

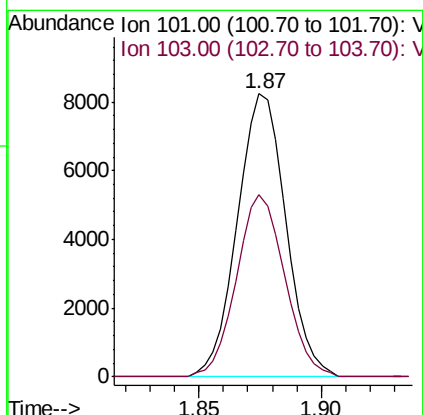
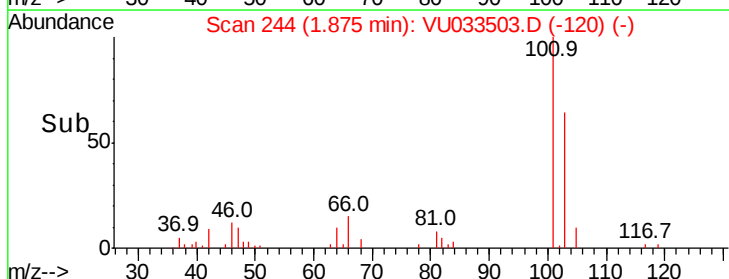
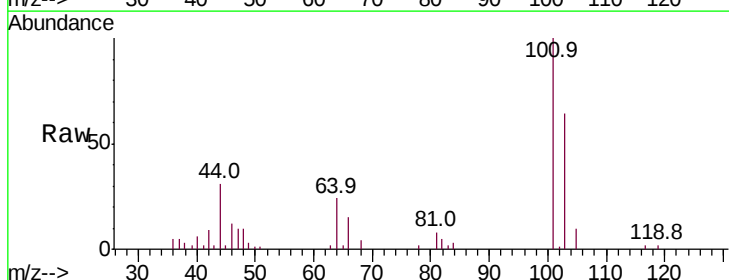
Acq: 30 Jul 2019 19:34

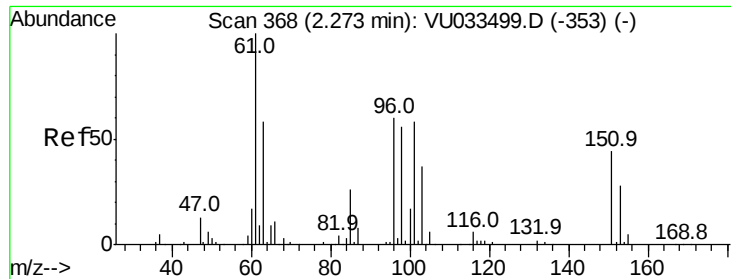
Tgt Ion:101 Resp: 11331

Ion Ratio Lower Upper

101 100

103 64.2 51.6 77.4





#10

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

Concen: 3.007 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

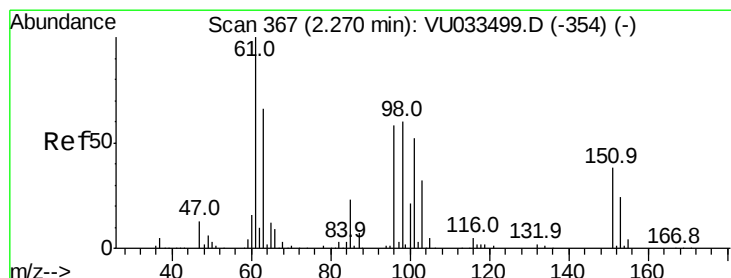
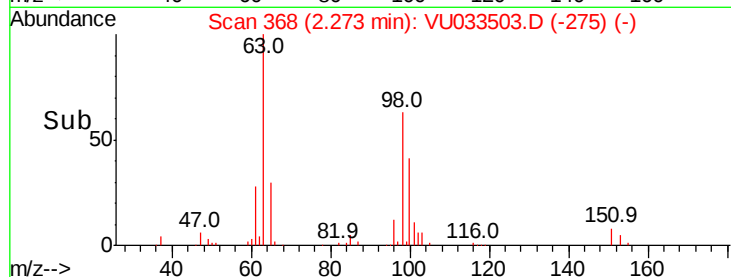
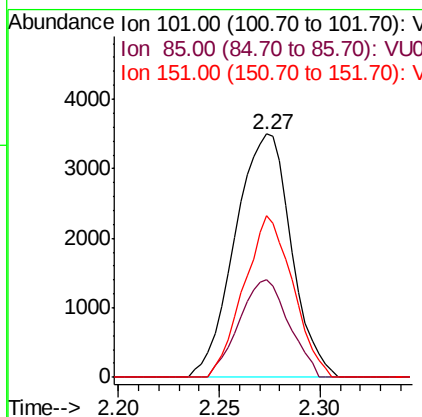
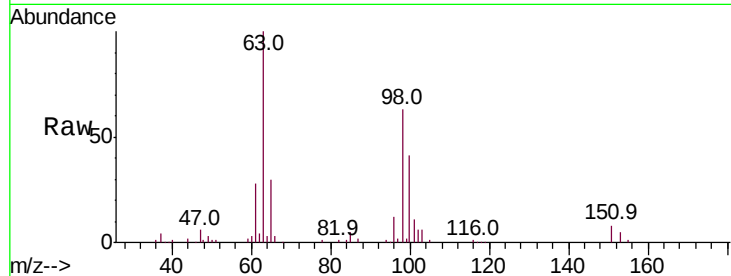
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	6804
Ion Ratio	Lower	Upper	
101	100		
85	35.5	35.8	53.8#
151	57.9	60.1	90.1#

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#12

1,1-Dichloroethene

Concen: 3.095 ug/L

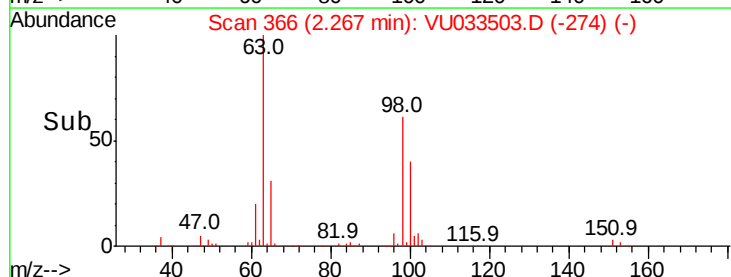
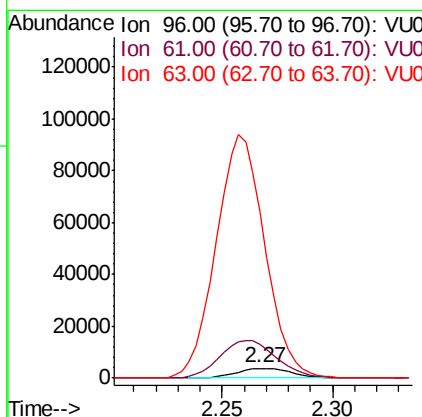
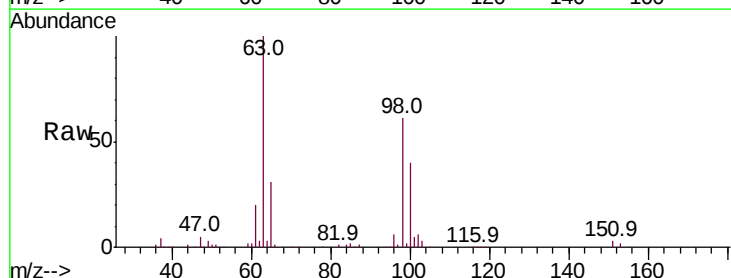
RT: 2.27 min Scan# 366

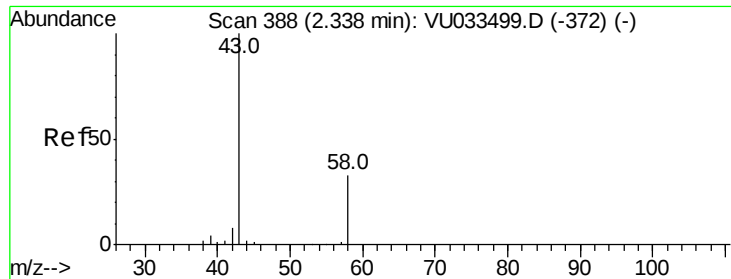
Delta R.T. -0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Tgt Ion:	96	Resp:	6715
Ion Ratio	Lower	Upper	
96	100		
61	339.9	119.3	221.5#
63	1674.1	86.6	160.8#





#13

Acetone

Concen: 4.682 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 7728

Ion Ratio Lower Upper

43 100

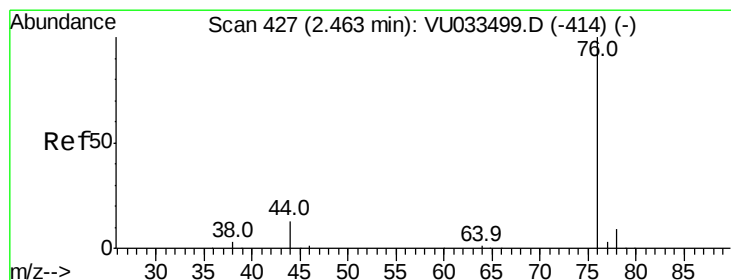
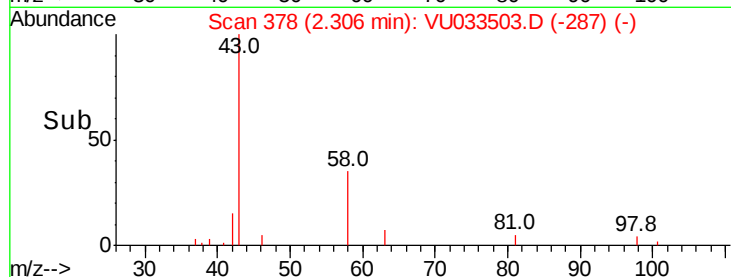
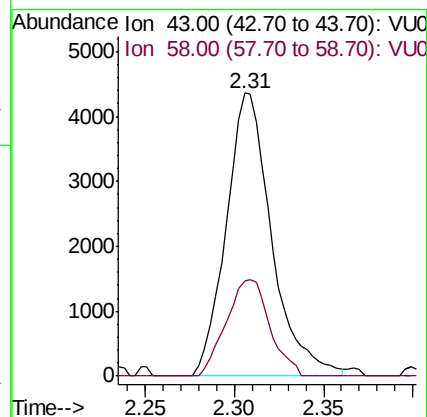
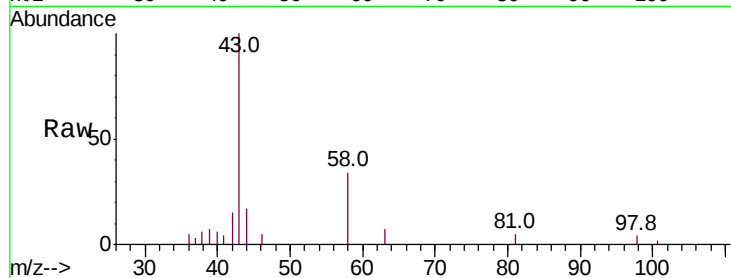
58 32.6 0.0 66.2

Manual Integrations

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7/31/2019 10:34:03 AM



#14

Carbon disulfide

Concen: 2.646 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033503.D

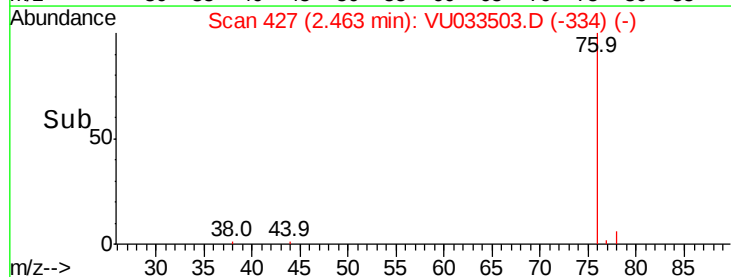
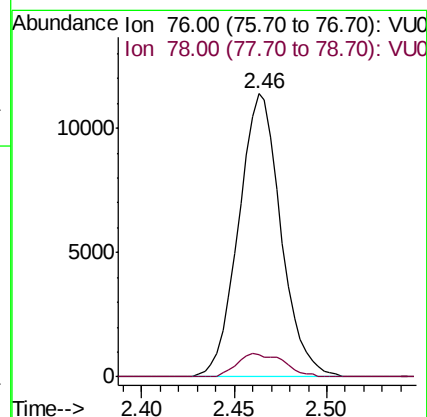
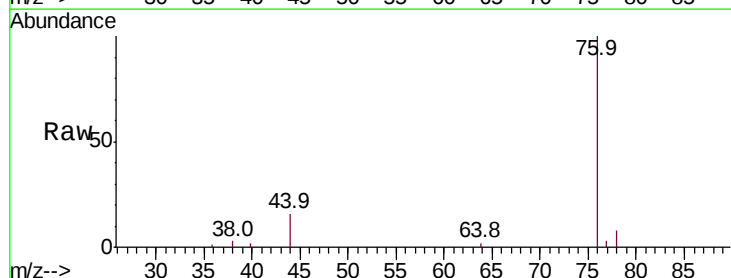
Acq: 30 Jul 2019 19:34

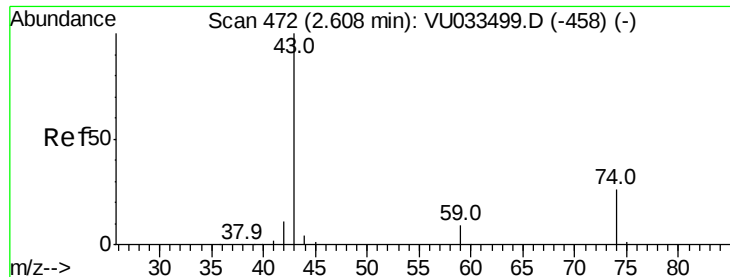
Tgt Ion: 76 Resp: 18008

Ion Ratio Lower Upper

76 100

78 7.9 7.4 11.0





#15

Methyl Acetate

Concen: 2.365 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Tot Ion: 43 Resp: 6216

Ion Ratio Lower Upper

43 100

74 23.7 20.1 30.1

Instrument :

MSVOA_U

ClientSampled :

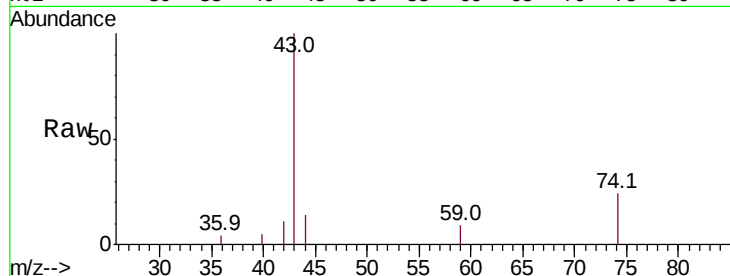
MDL03

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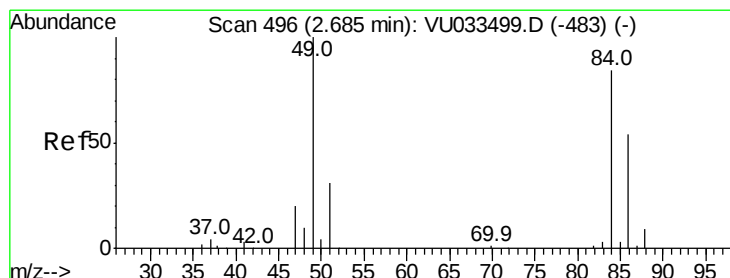
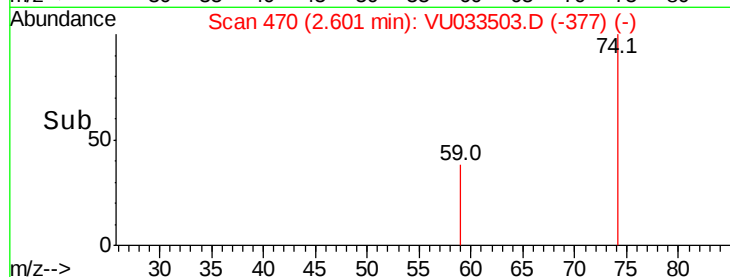
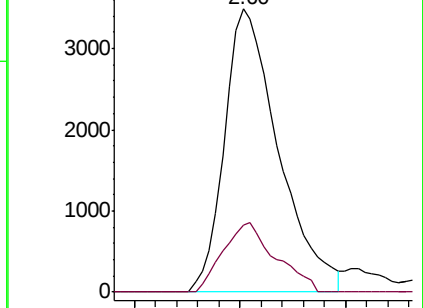
MMDadoda

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

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



#16

Methylene chloride

Concen: 2.601 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

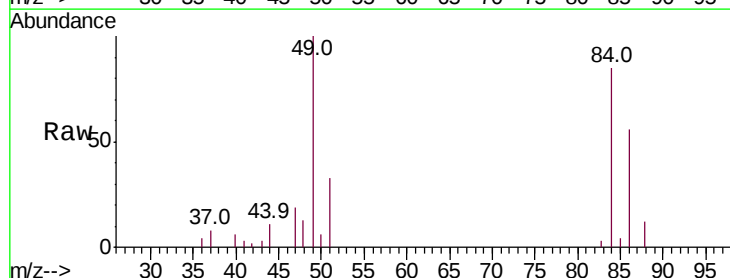
Tgt Ion: 84 Resp: 6445

Ion Ratio Lower Upper

84 100

86 66.1 45.7 84.9

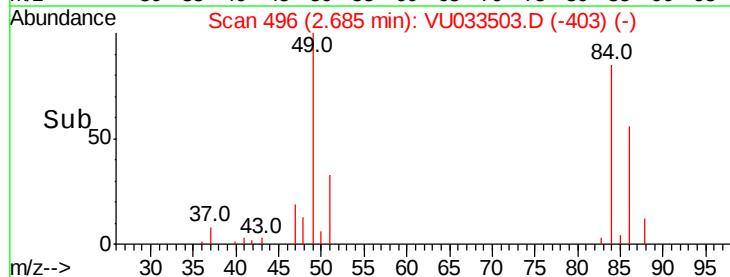
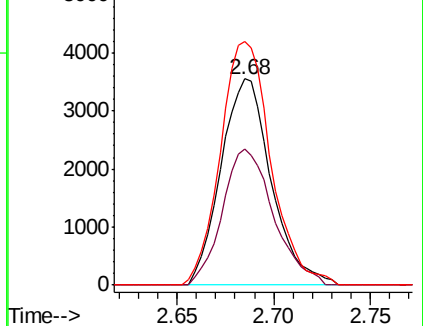
49 118.2 85.0 158.0

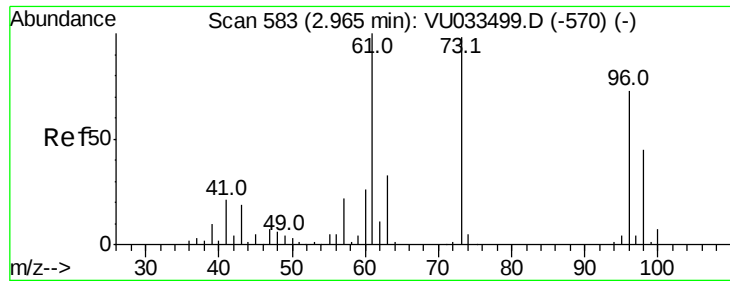


Abundance Ion 84.00 (83.70 to 84.70): VU033499.D (-483) (-)

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

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





#17

trans-1,2-Dichloroethene

Concen: 2.420 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

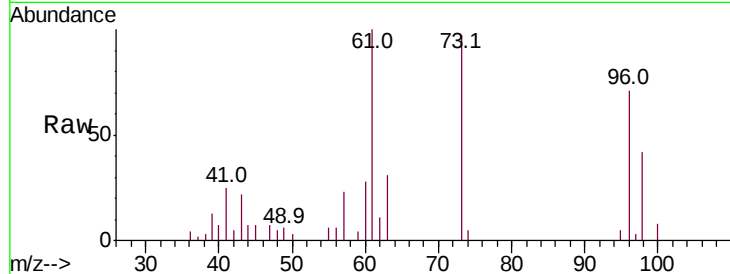
ClientSampleId :

MDL03

Tot Ion:	96	Resp:	5502
Ion	Ratio	Lower	Upper
96	100		
61	141.2	98.3	182.5
98	59.7	44.3	82.3

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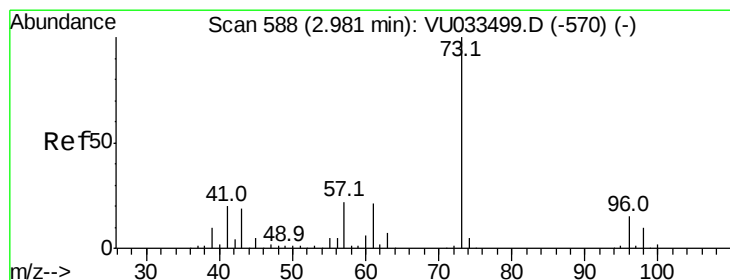
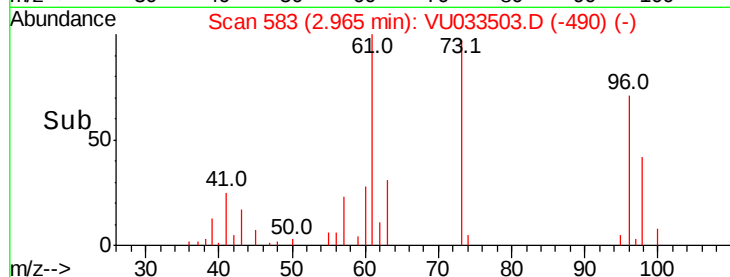
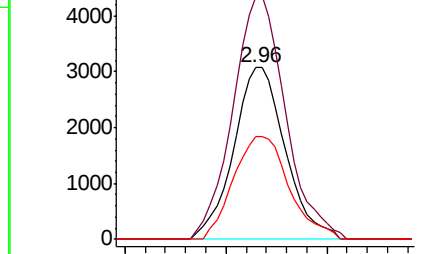
MMDadoda
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Abundance Ion 96.00 (95.70 to 96.70): VU033499.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033499.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033499.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 2.281 ug/L

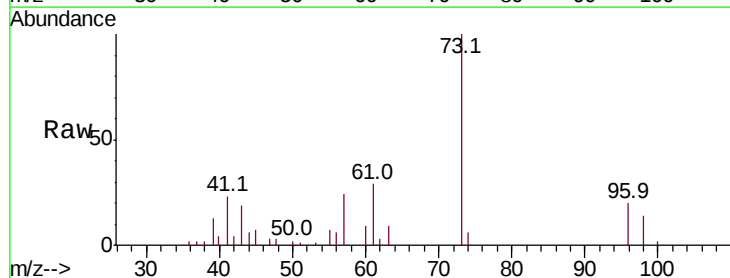
RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

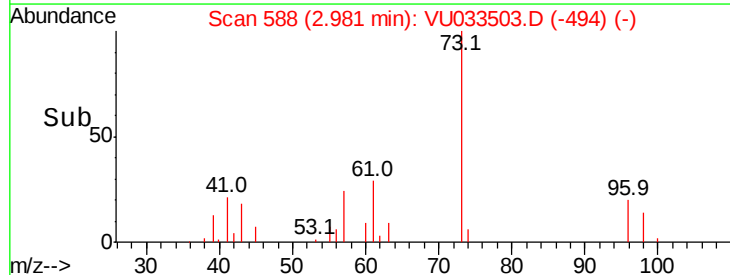
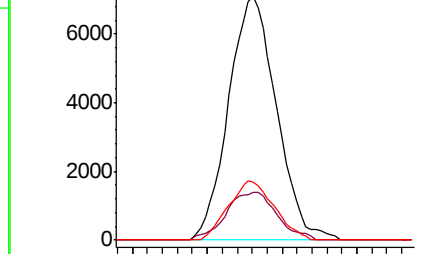
Tgt Ion:	73	Resp:	15809
Ion	Ratio	Lower	Upper
73	100		
43	20.8	15.4	23.2
57	23.2	17.4	26.2

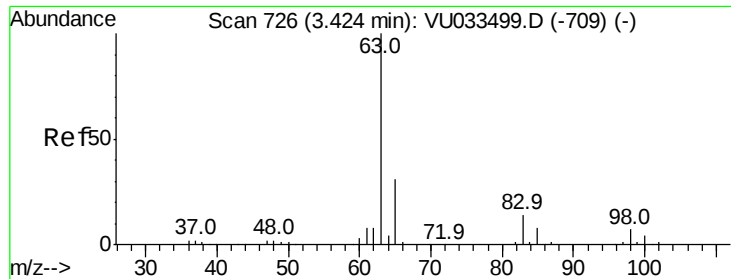


Abundance Ion 73.00 (72.70 to 73.70): VU033499.D (-570) (-)

Ion 43.00 (42.70 to 43.70): VU033499.D (-570) (-)

Ion 57.00 (56.70 to 57.70): VU033499.D (-570) (-)





#19

1,1-Dichloroethane

Concen: 2.451 ug/L

RT: 3.43 min Scan# 727

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

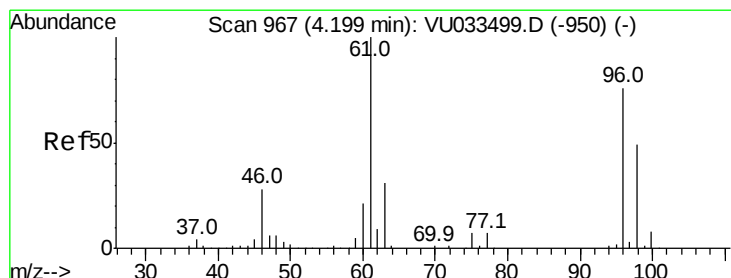
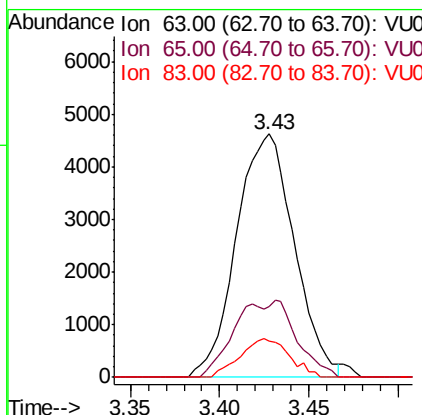
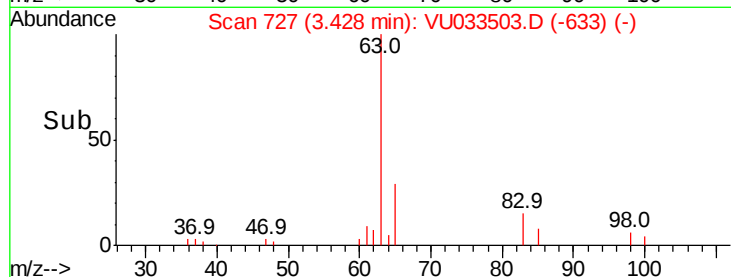
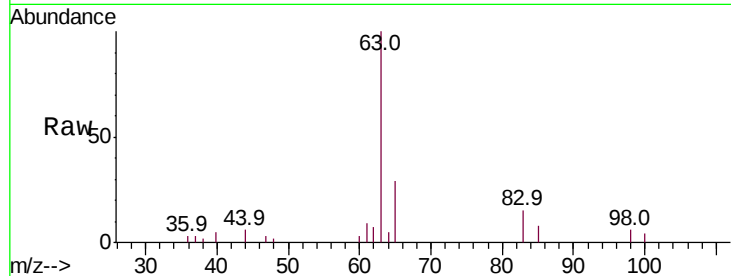
ClientSampleId :

MDL03

Tot Ion:	63	Resp:	10456
Ion Ratio	Lower	Upper	
63	100		
65	29.3	22.0	40.8
83	15.1	9.5	17.7

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#20

cis-1,2-Dichloroethene

Concen: 2.593 ug/L

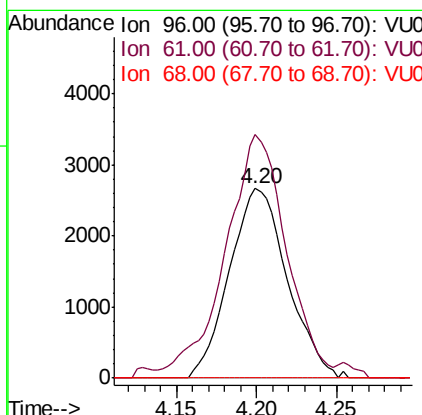
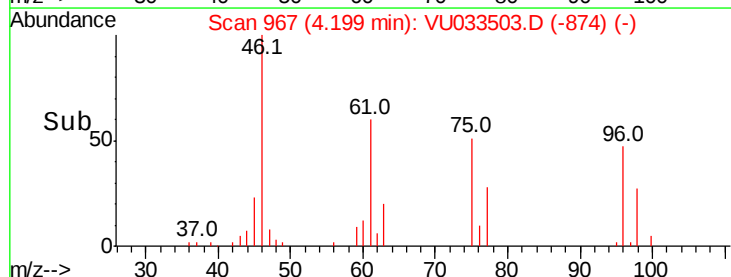
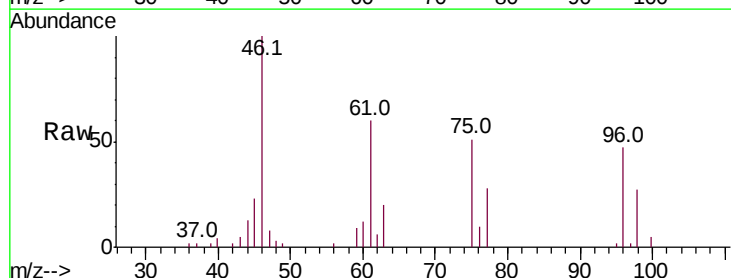
RT: 4.20 min Scan# 967

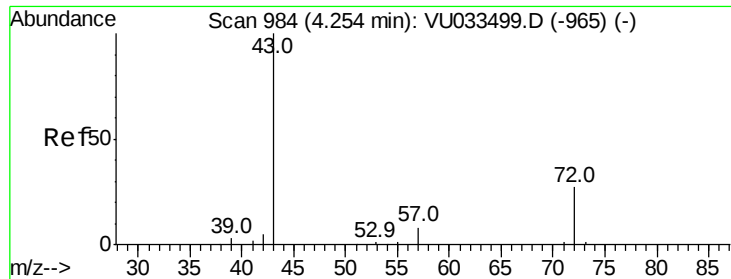
Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Tgt Ion:	96	Resp:	6616
Ion Ratio	Lower	Upper	
96	100		
61	128.4	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.191 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.01 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 8259

Ion Ratio Lower Upper

43 100

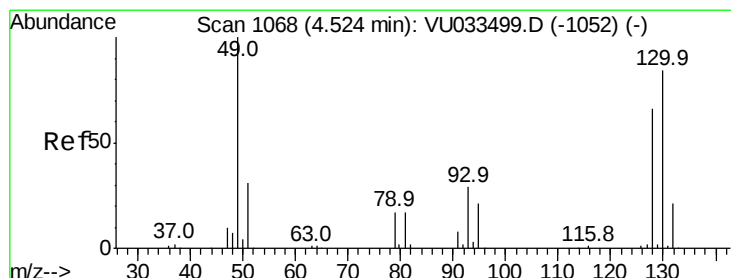
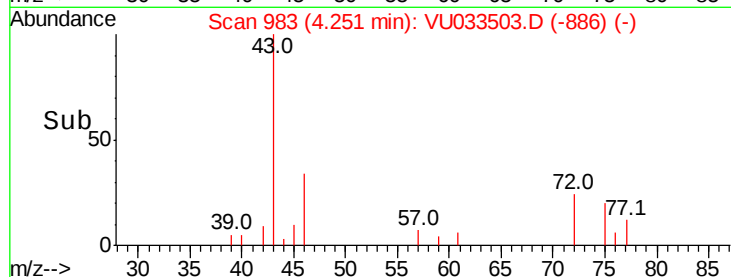
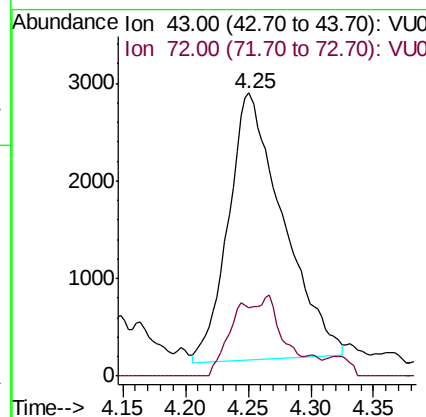
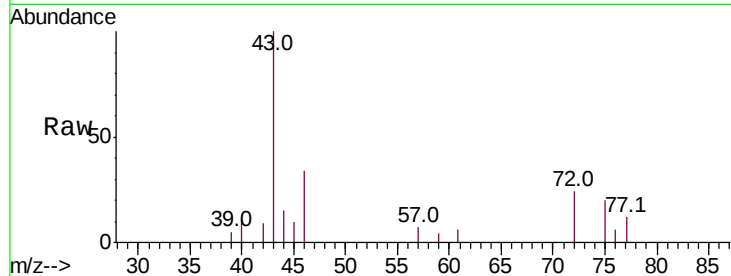
72 11.0 14.2 42.6#

Manual Integrations

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#23

Bromochloromethane

Concen: 2.449 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Tgt Ion: 128 Resp: 3260

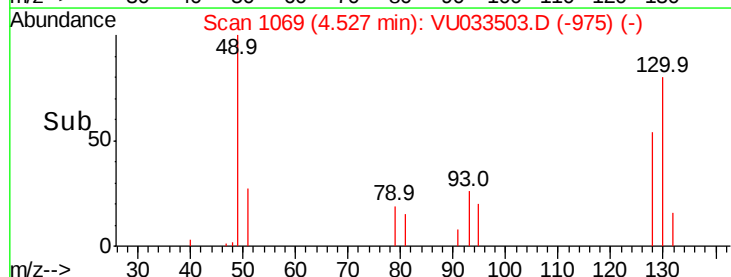
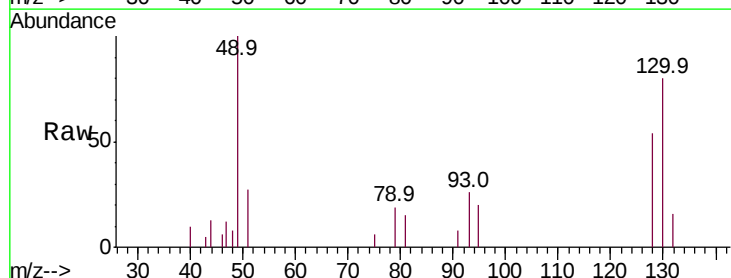
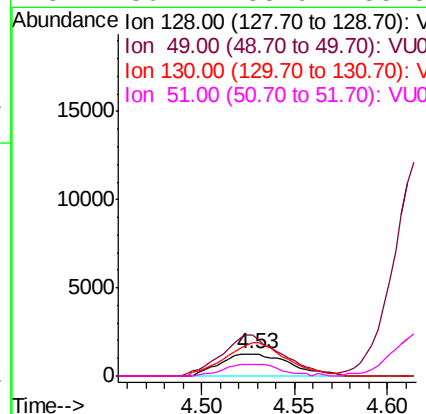
Ion Ratio Lower Upper

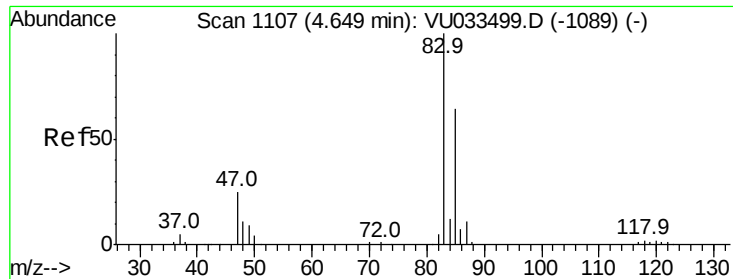
128 100

49 186.0 108.4 201.2

130 148.2 89.7 166.5

51 50.2 38.9 58.3





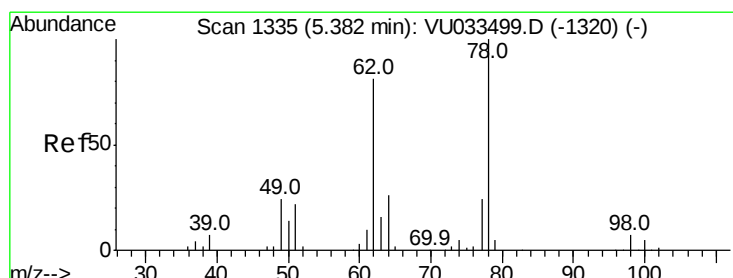
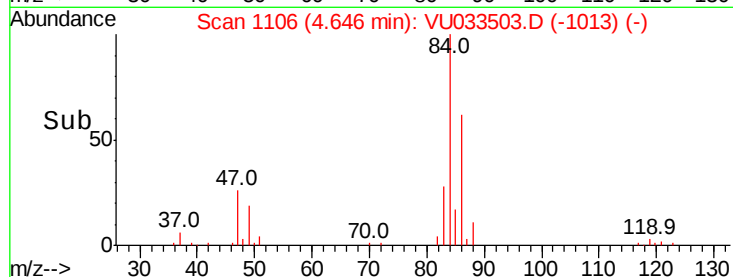
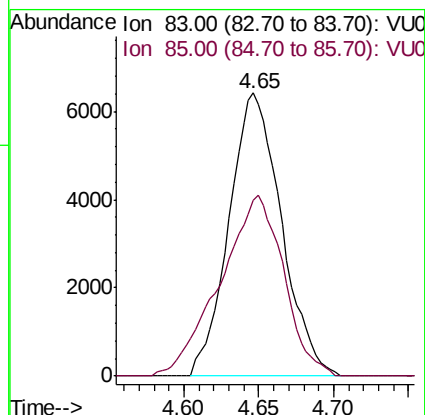
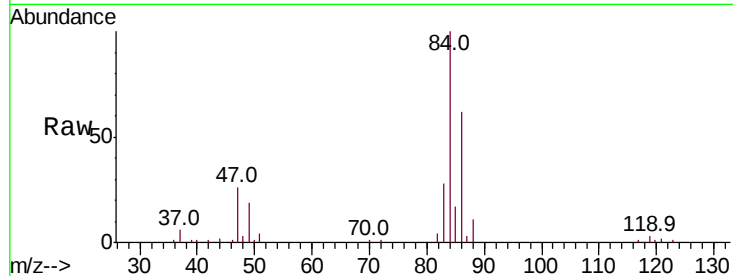
#25
Chloroform
Concen: 3.481 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 83 Resp: 15630
Ion Ratio Lower Upper
83 100
85 61.9 45.6 84.8

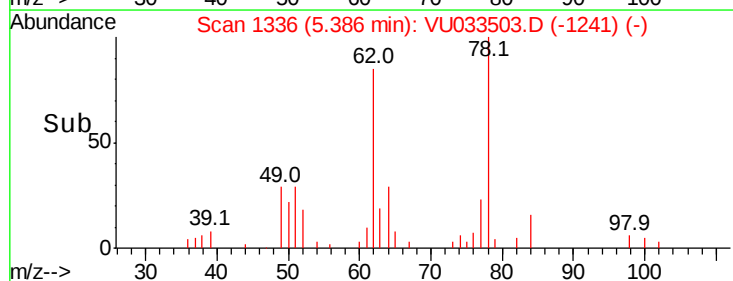
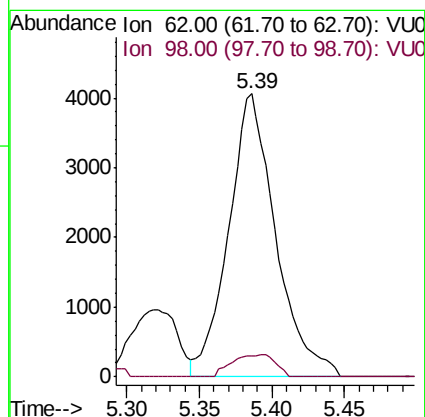
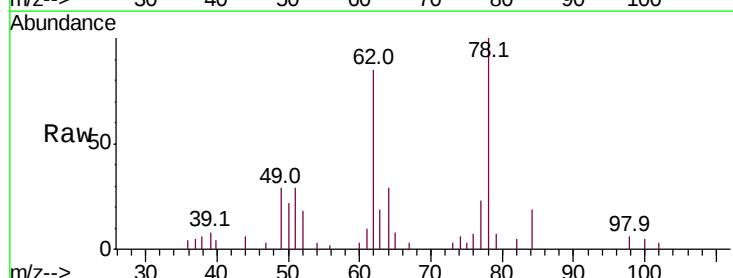
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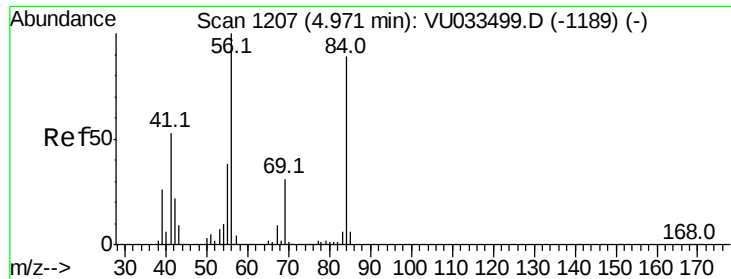
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.651 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Tgt Ion: 62 Resp: 9165
Ion Ratio Lower Upper
62 100
98 7.4 7.2 10.8





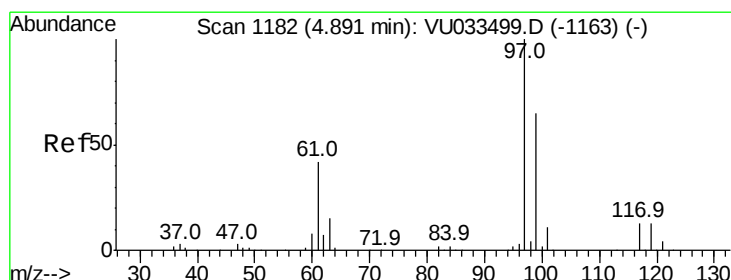
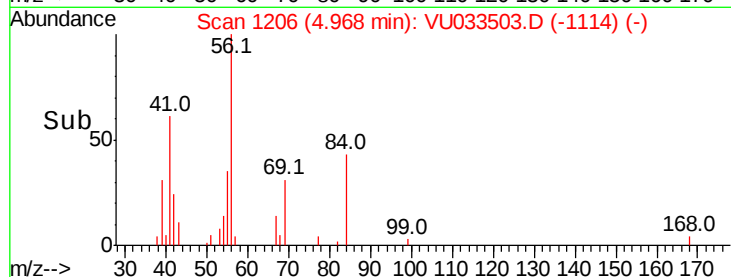
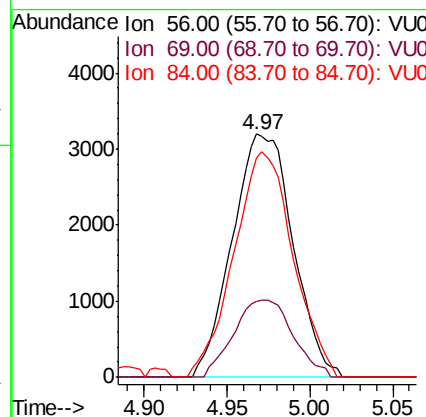
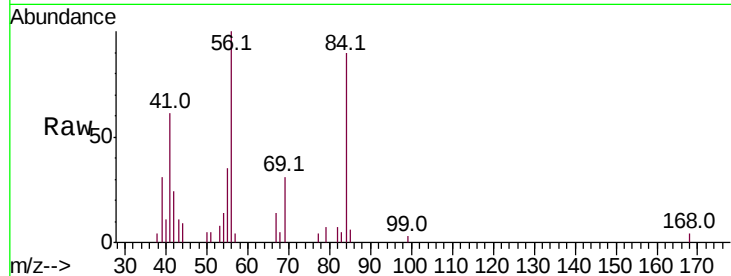
#29
Cyclohexane
Concen: 2.244 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.1	25.0	37.6
84	90.4	71.6	107.4

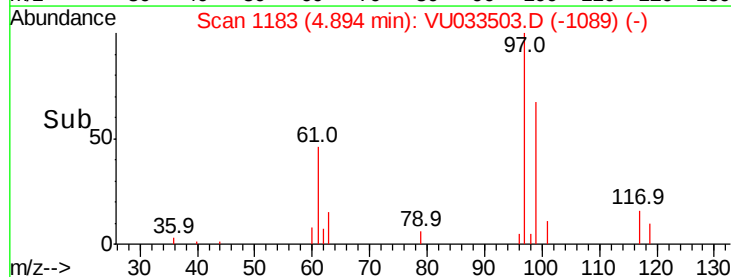
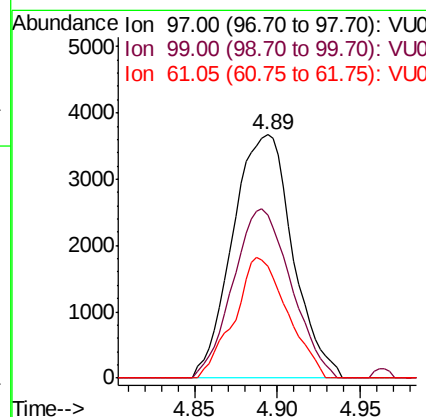
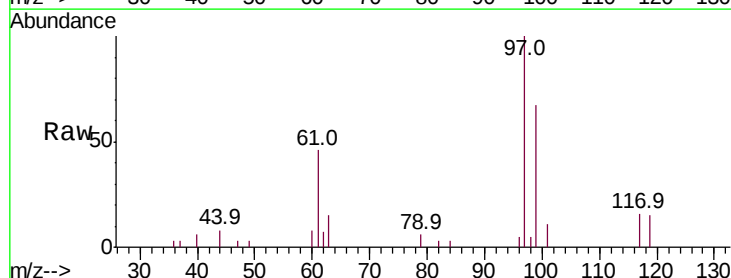
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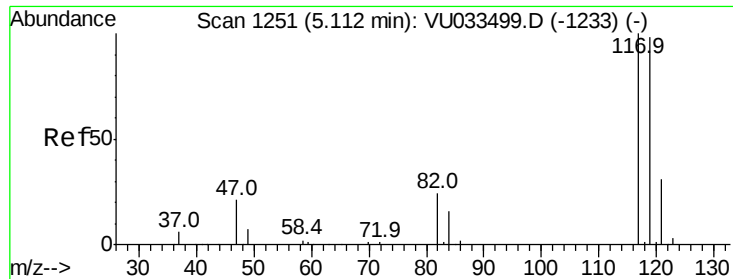
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.411 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.4	51.1	76.7
61	43.8	35.5	53.3





#31

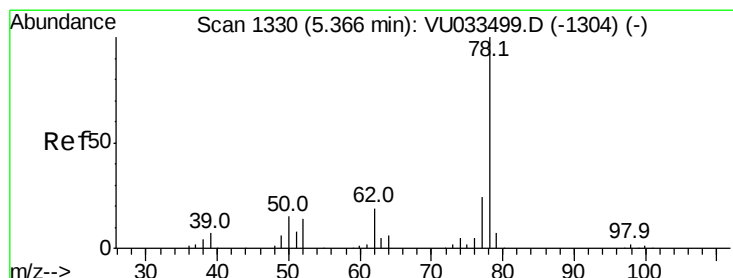
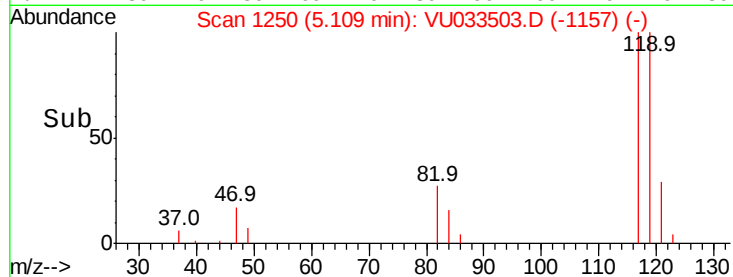
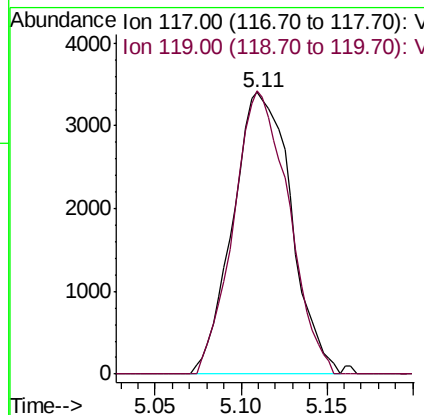
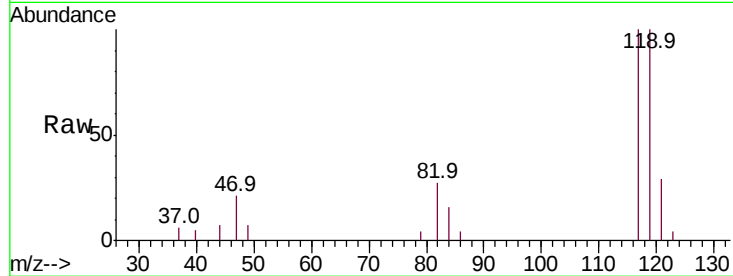
Carbon tetrachloride
Concen: 2.406 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion:117 Resp: 8033
Ion Ratio Lower Upper
117 100
119 95.2 77.0 115.4

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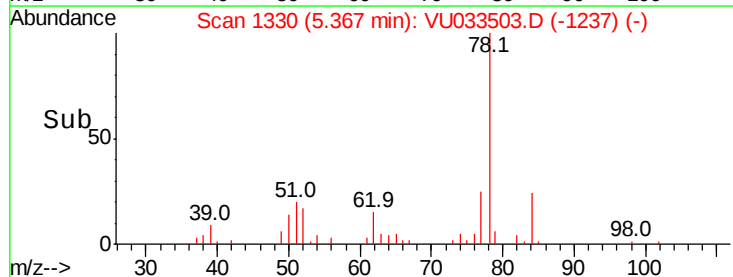
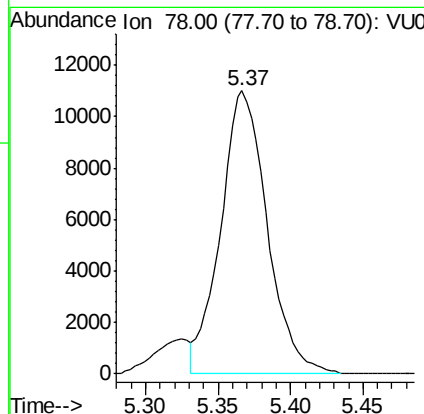
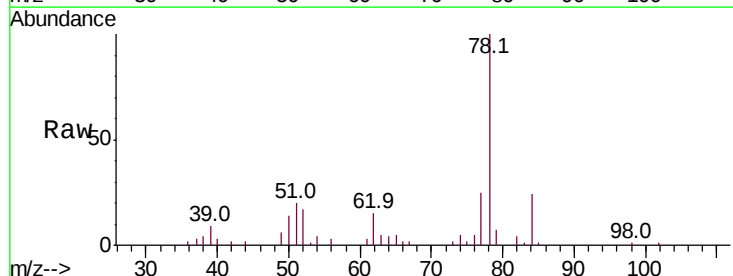
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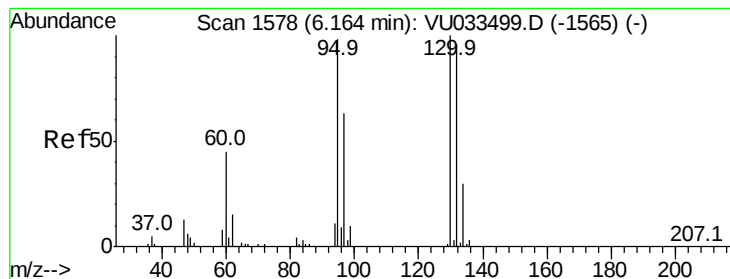


#33

Benzene
Concen: 2.553 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Tgt Ion: 78 Resp: 24542





#34

Trichloroethene

Concen: 2.462 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampleID :

MDL03

Tot Ion: 95 Resp: 6243

Ion Ratio Lower Upper

95 100

97 60.1 44.7 83.1

132 90.4 66.8 124.0

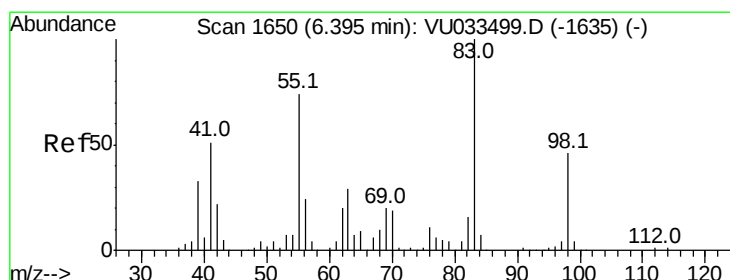
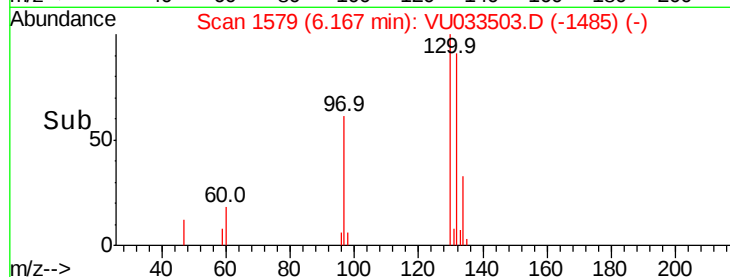
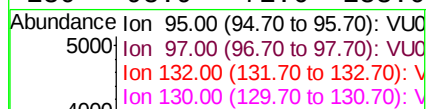
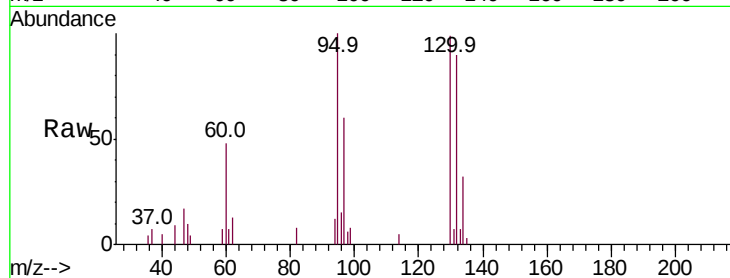
130 98.9 71.6 133.0

Manual Integrations

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#35

Methylcyclohexane

Concen: 2.254 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

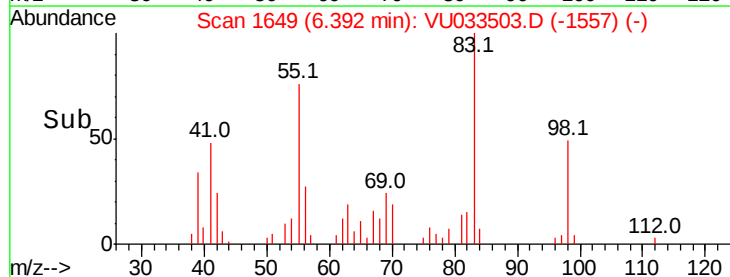
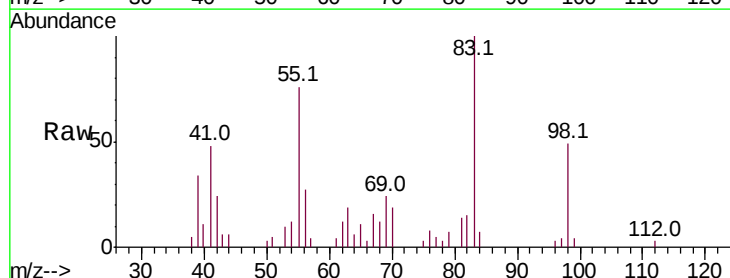
Tgt Ion: 83 Resp: 8921

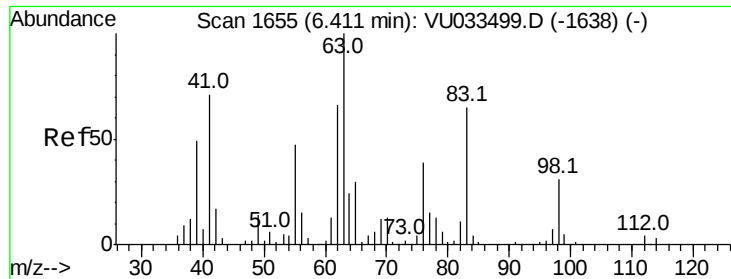
Ion Ratio Lower Upper

83 100

55 73.9 60.2 90.4

98 44.1 36.5 54.7





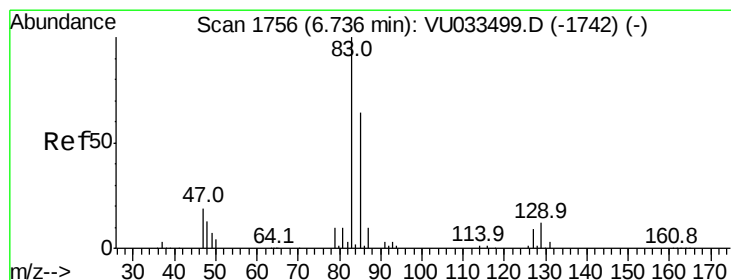
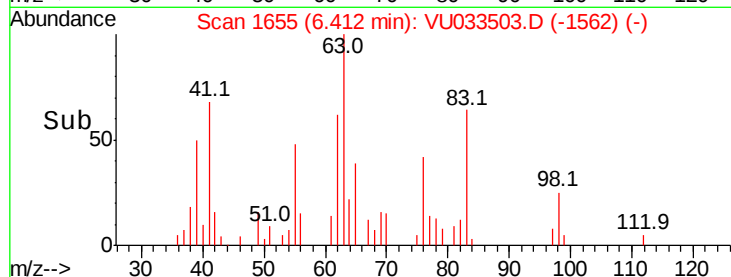
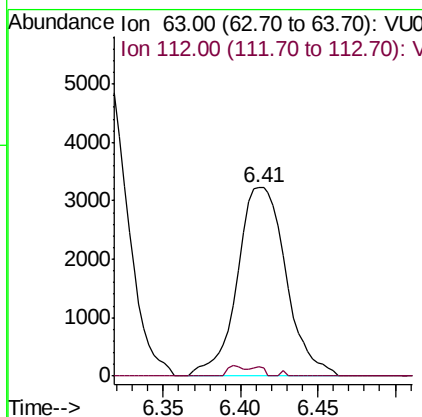
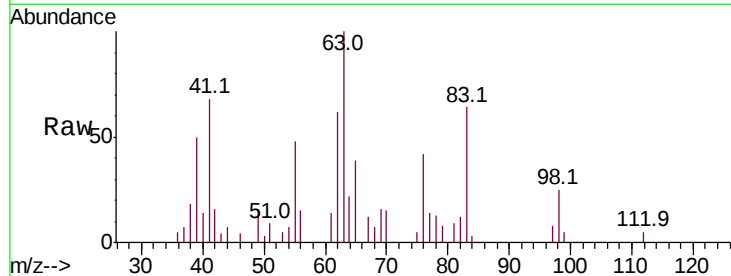
#37
 1,2-Dichloropropane
 Concen: 2.753 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033503.D
 Acq: 30 Jul 2019 19:34

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 7084
 Ion Ratio Lower Upper
 63 100
 112 1.2 3.0 4.6#

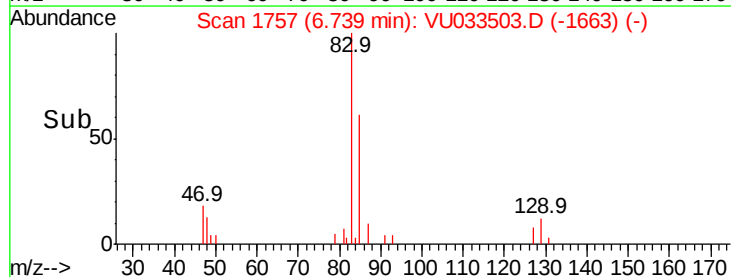
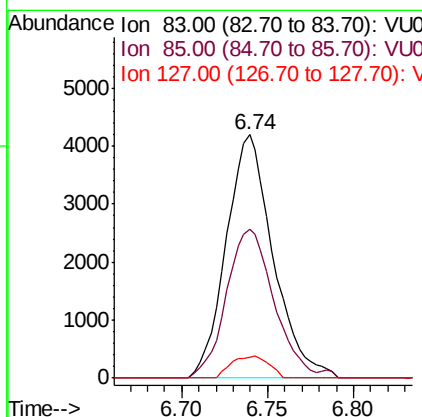
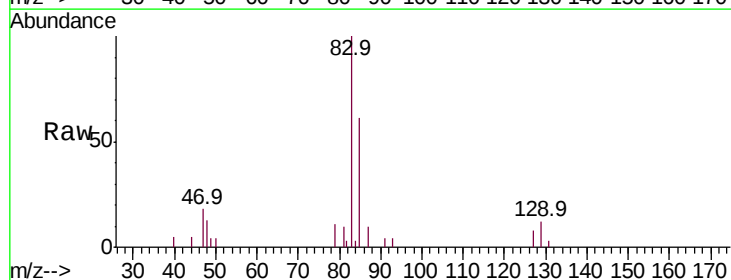
Manual Integrations
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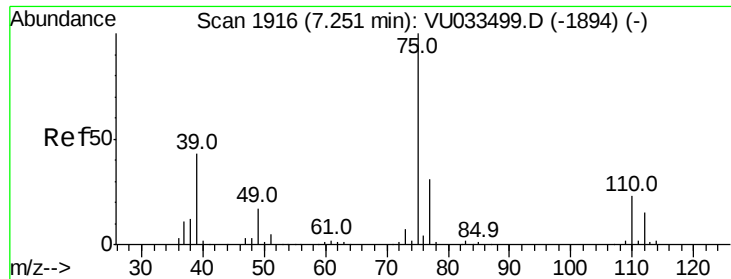
MMDadoda
 7/31/2019 10:34:03 AM



#38
 Bromodichloromethane
 Concen: 2.391 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033503.D
 Acq: 30 Jul 2019 19:34

Tgt Ion: 83 Resp: 7954
 Ion Ratio Lower Upper
 83 100
 85 61.1 45.1 83.9
 127 8.5 7.2 10.8





#39

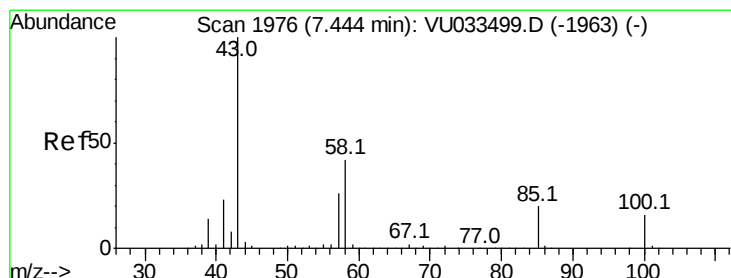
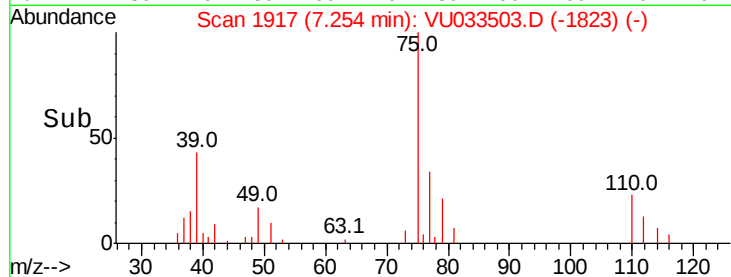
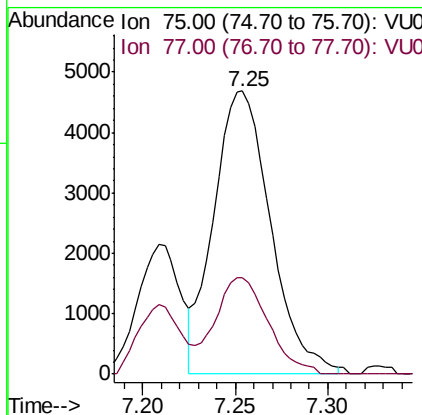
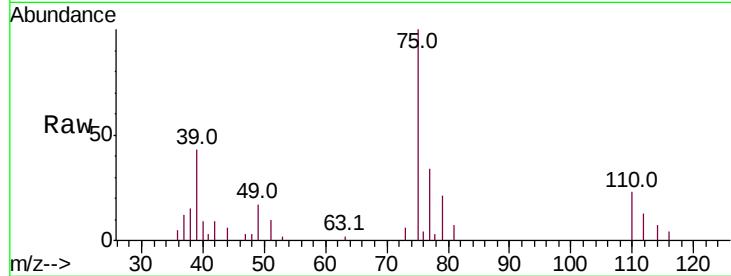
cis-1,3-Dichloropropene
Concen: 2.490 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.2	22.3	41.5

Manual Integrations
APPROVED

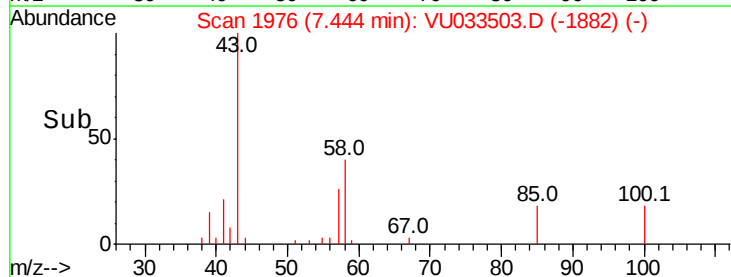
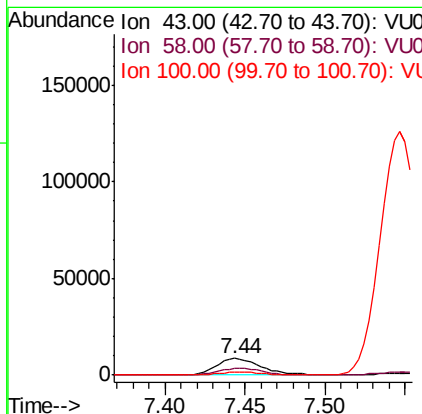
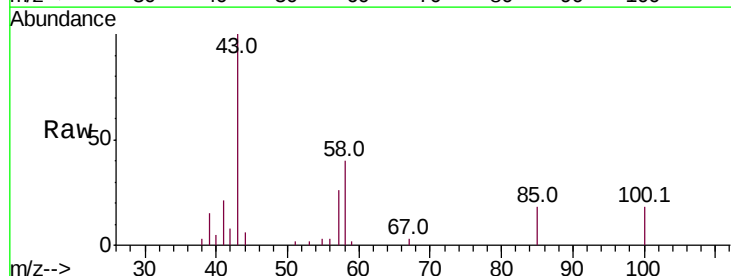
MMDadoda
7/31/2019 10:34:03 AM

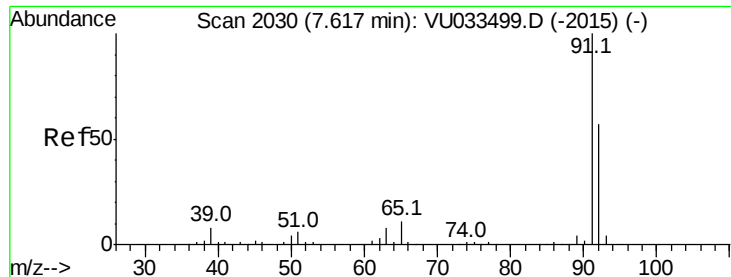


#40

4-Methyl-2-pentanone
Concen: 4.646 ug/L
RT: 7.44 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.5	32.8	49.2
100	16.1	12.9	19.3





#42

Toluene

Concen: 2.456 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 25389

Ion Ratio Lower Upper

91 100

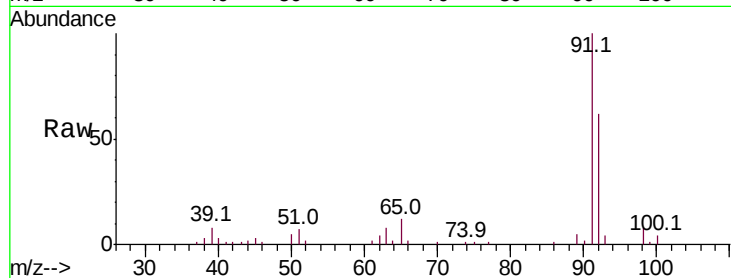
92 62.2 40.2 74.6

Manual Integrations

APPROVED

MMDadoda

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

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

7.62

15000

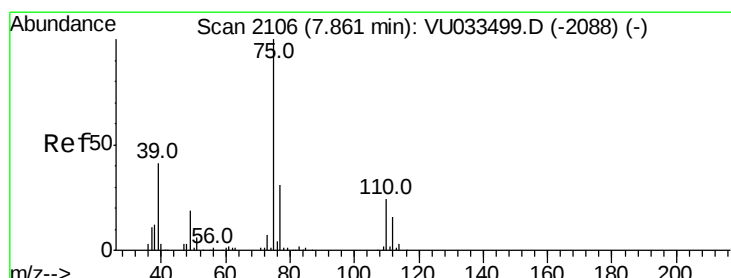
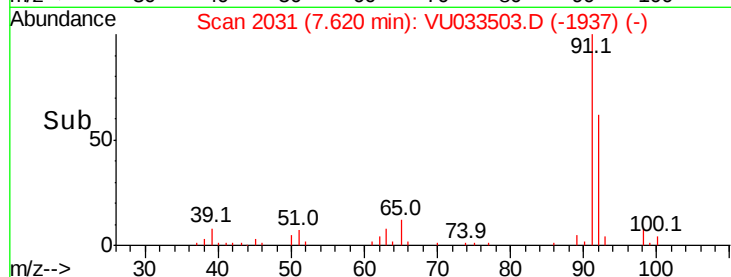
10000

5000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.420 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033503.D

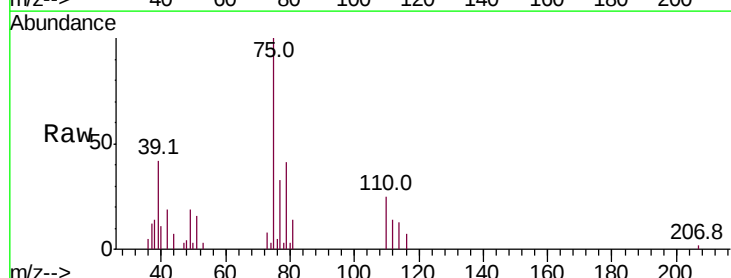
Acq: 30 Jul 2019 19:34

Tgt Ion: 75 Resp: 8783

Ion Ratio Lower Upper

75 100

77 32.5 22.7 42.1



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

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

7.86

5000

4000

3000

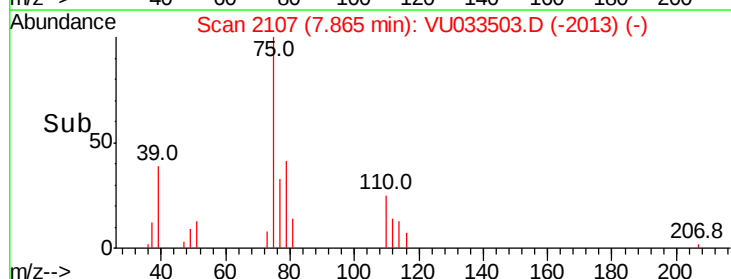
2000

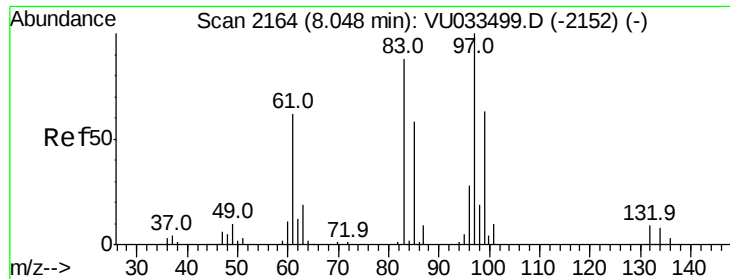
1000

0

7.85 7.90

Time-->





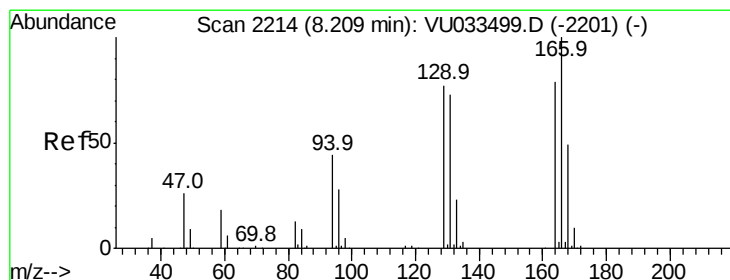
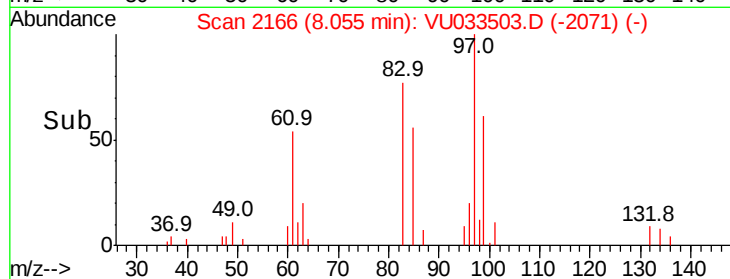
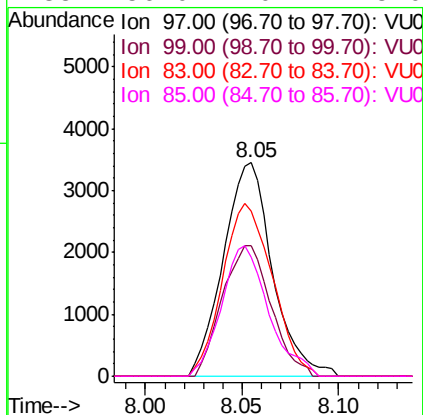
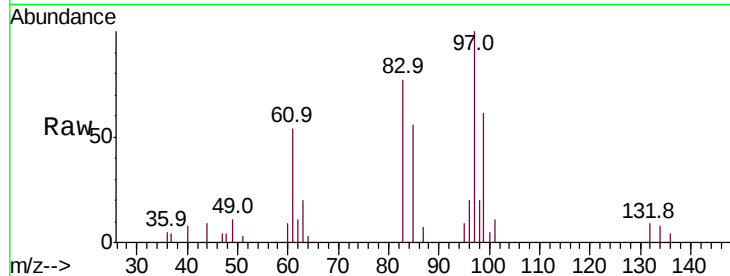
#45
1,1,2-Trichloroethane
Concen: 2.498 ug/L
RT: 8.05 min Scan# 2166
Delta R.T. 0.01 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.3	44.4	82.4
83	77.2	61.5	114.1
85	56.0	40.4	75.0

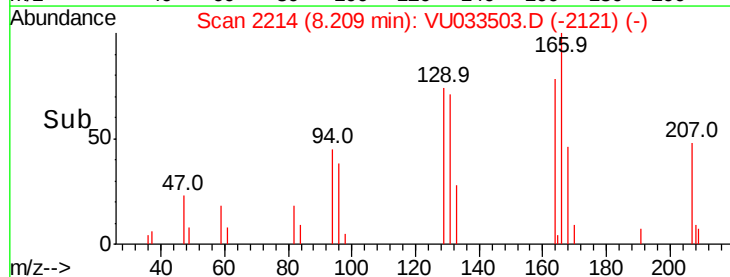
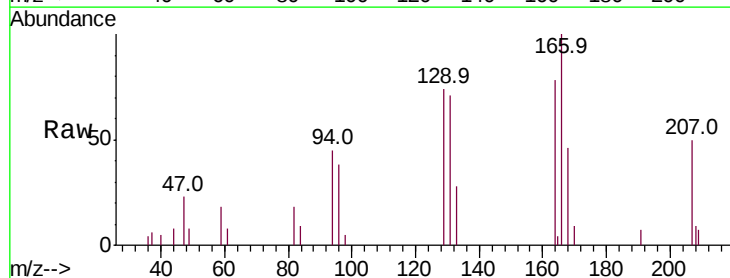
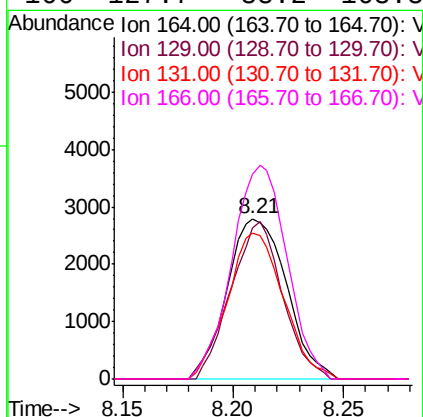
Manual Integrations
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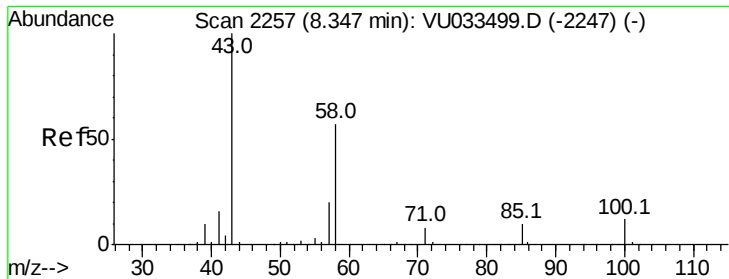
MMDadoda
7/31/2019 10:34:03 AM



#46
Tetrachloroethene
Concen: 2.529 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Tgt Ion	Ratio	Lower	Upper
164	100		
129	94.3	65.5	121.7
131	90.7	63.3	117.7
166	127.7	88.2	163.8





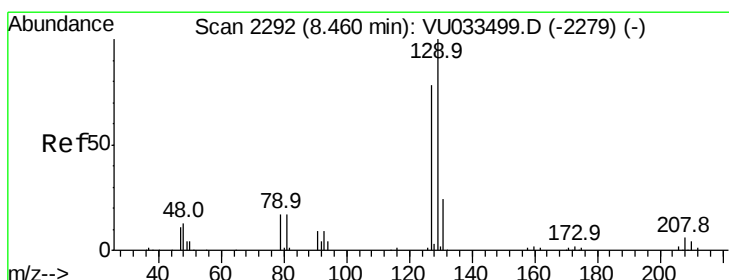
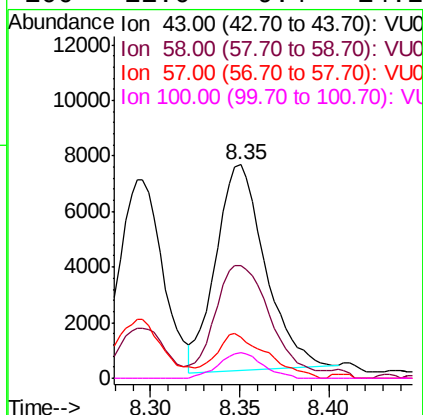
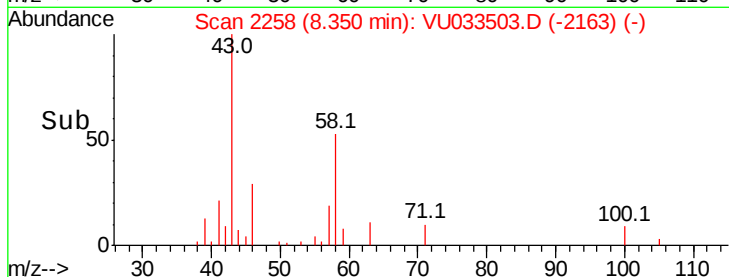
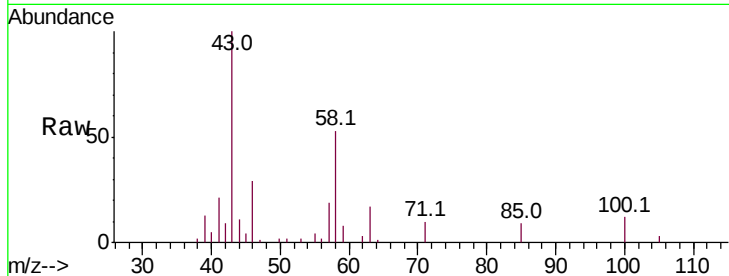
#48
2-Hexanone
Concen: 4.935 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	56.6	45.8	68.6	
57	22.8	15.8	23.6	
100	11.0	9.4	14.2	

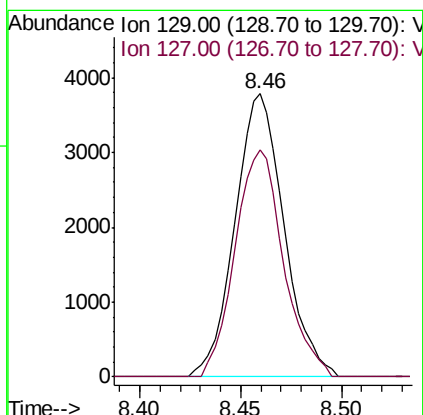
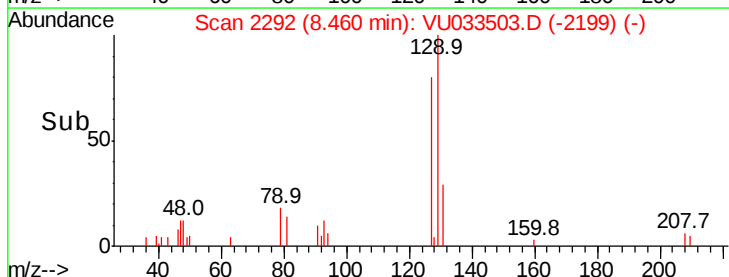
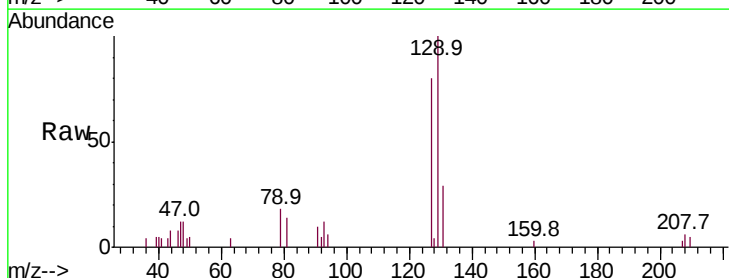
Manual Integrations
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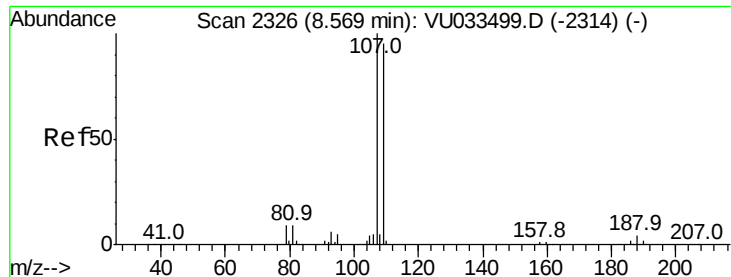
MMDadoda
7/31/2019 10:34:03 AM



#49
Dibromochloromethane
Concen: 2.320 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	80.3	53.8	99.8	





#50

1,2-Dibromoethane

Concen: 2.408 ug/L

RT: 8.58 min Scan# 2328

Delta R.T. 0.01 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

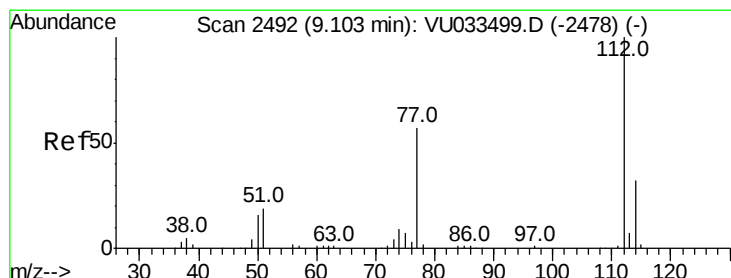
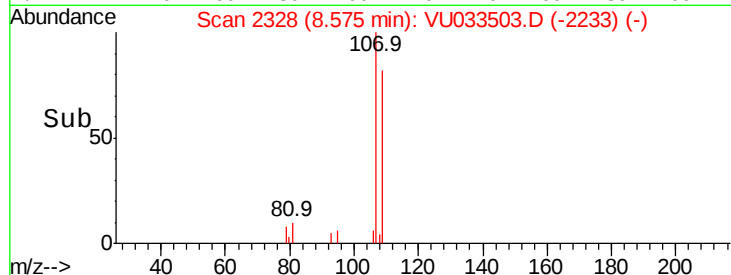
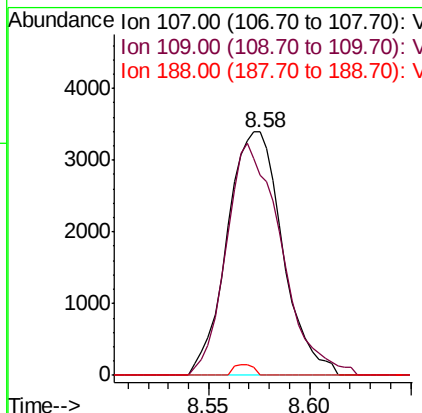
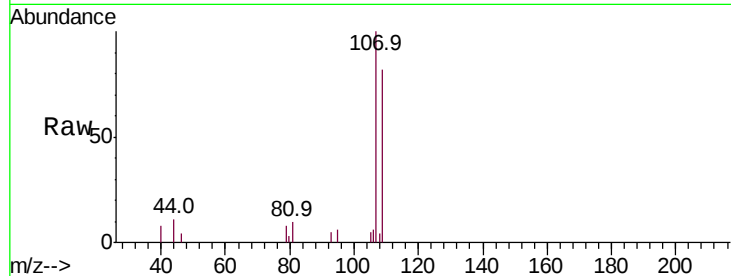
ClientSampleId :

MDL03

Tot Ion:	107	Resp:	6515
Ion Ratio	Lower	Upper	
107	100		
109	82.1	66.8	124.0
188	0.0	3.0	4.4#

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#51

Chlorobenzene

Concen: 2.539 ug/L

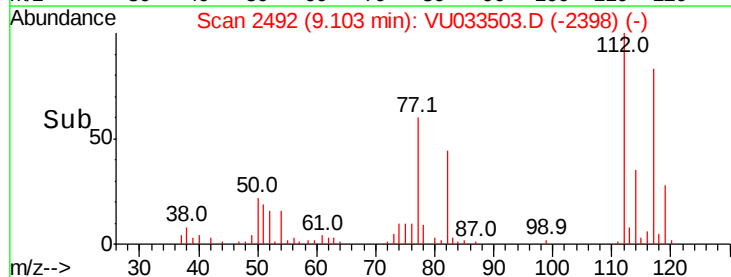
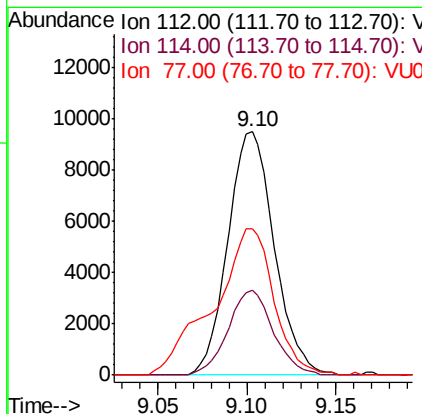
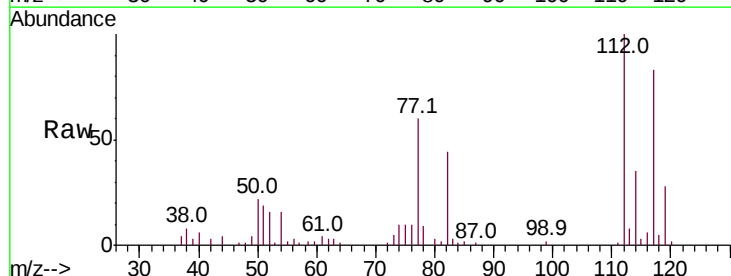
RT: 9.10 min Scan# 2492

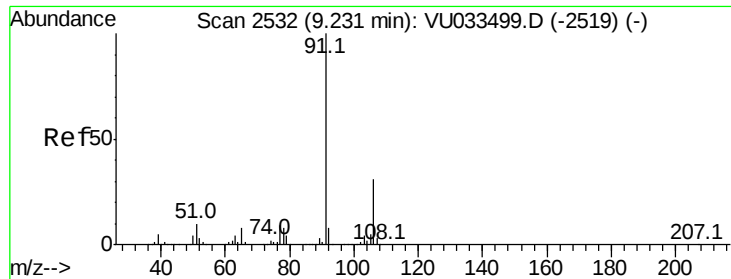
Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Tgt Ion:	112	Resp:	17182
Ion Ratio	Lower	Upper	
112	100		
114	34.8	22.3	41.5
77	60.3	45.6	68.4





#52

Ethylbenzene

Concen: 2.211 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 24614

Ion Ratio Lower Upper

91 100

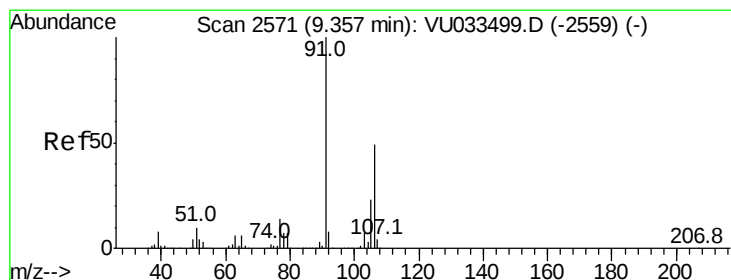
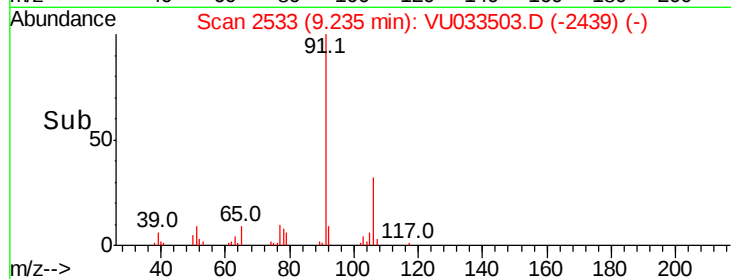
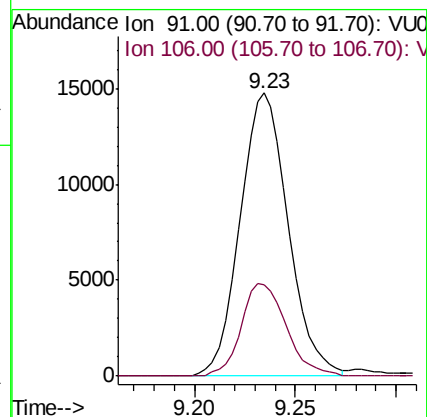
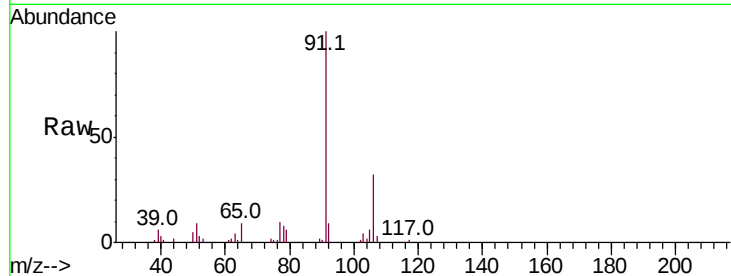
106 32.3 22.2 41.2

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#53

m,p-Xylene

Concen: 2.201 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033503.D

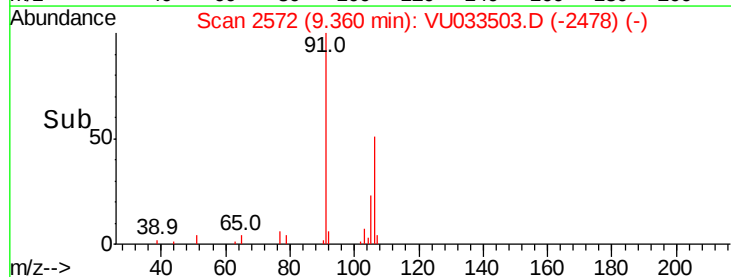
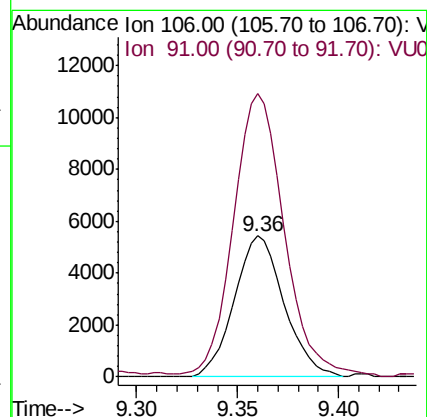
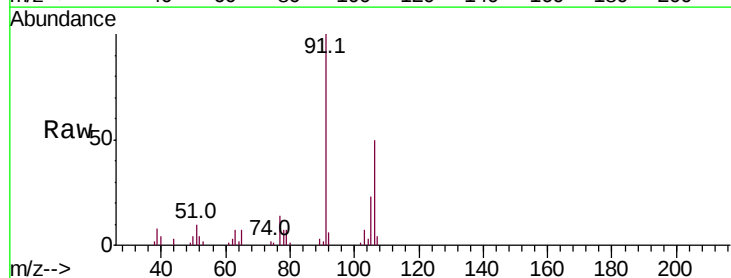
Acq: 30 Jul 2019 19:34

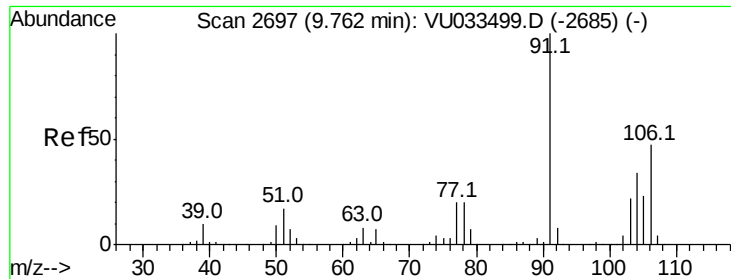
Tgt Ion: 106 Resp: 9406

Ion Ratio Lower Upper

106 100

91 200.8 143.0 265.6





#54

o-xylene

Concen: 2.108 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion:106 Resp: 8738

Ion Ratio Lower Upper

106 100

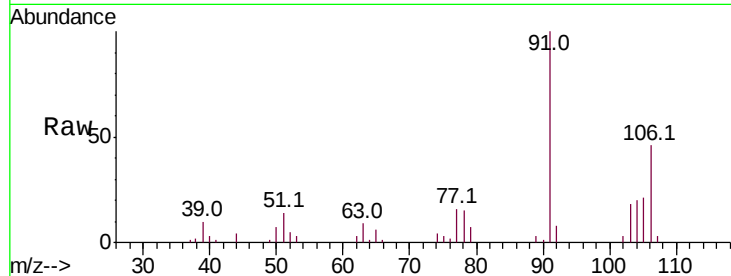
91 216.3 148.4 275.6

Manual Integrations

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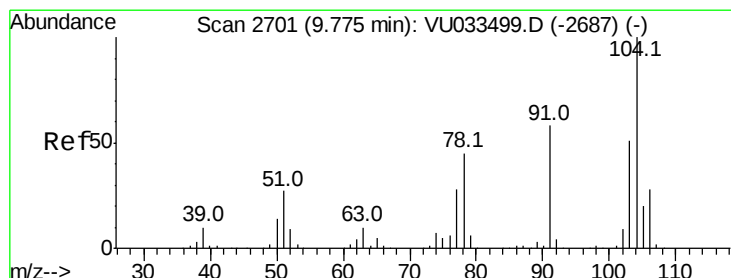
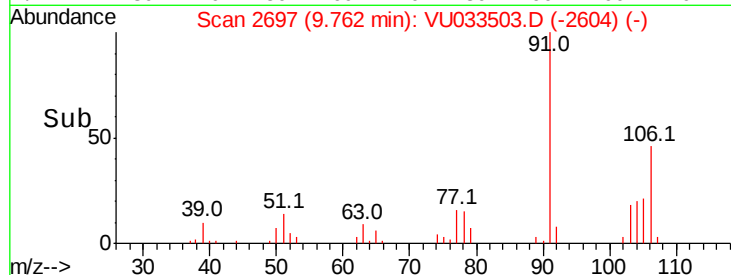
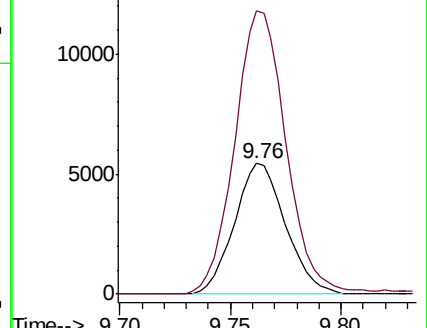
MMDadoda

7/31/2019 10:34:03 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.017 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033503.D

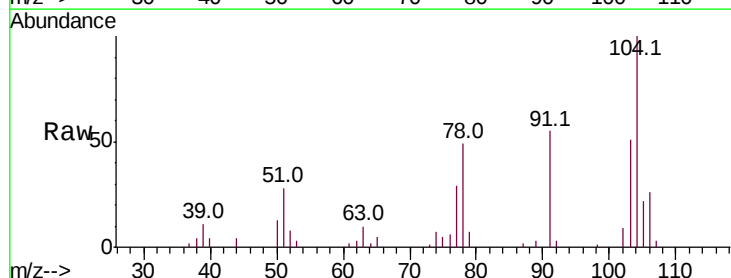
Acq: 30 Jul 2019 19:34

Tgt Ion:104 Resp: 14201

Ion Ratio Lower Upper

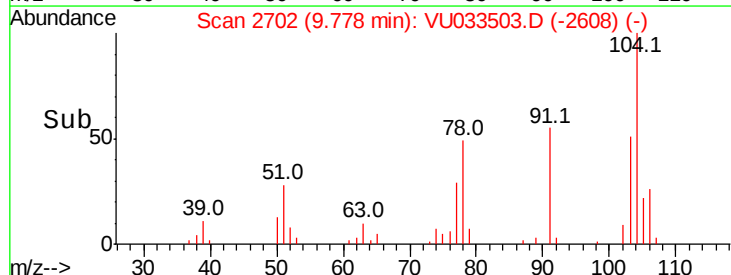
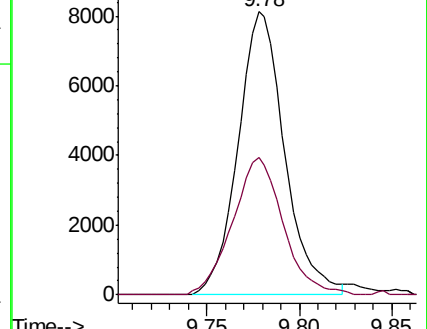
104 100

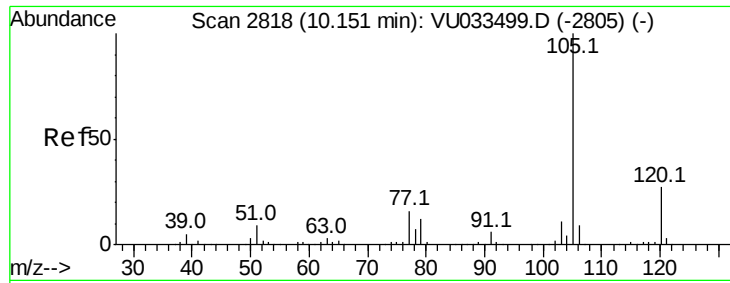
78 48.5 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 2.088 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

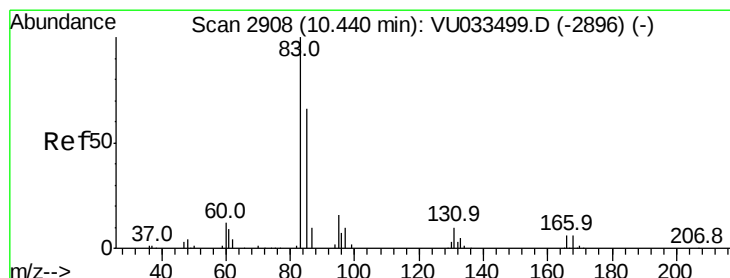
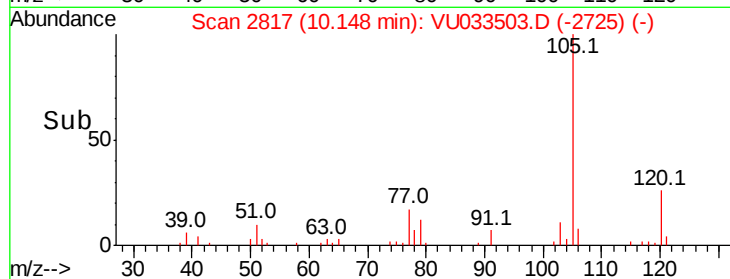
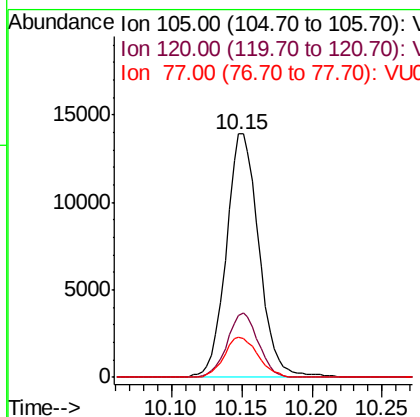
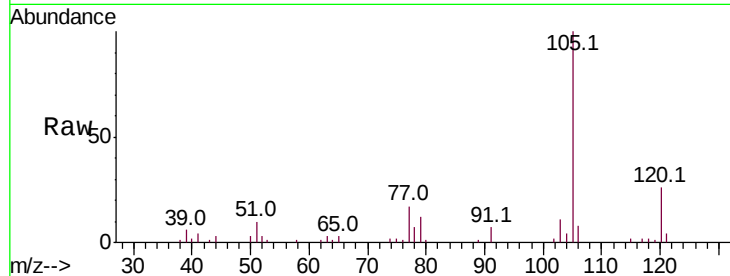
ClientSampleId :

MDL03

Tot Ion:	105	Resp:	22612
Ion Ratio	Lower	Upper	
105	100		
120	25.1	21.4	32.0
77	16.8	12.5	18.7

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#58

1,1,2,2-Tetrachloroethane

Concen: 2.631 ug/L

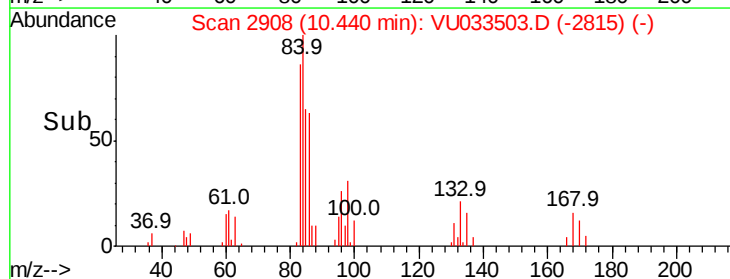
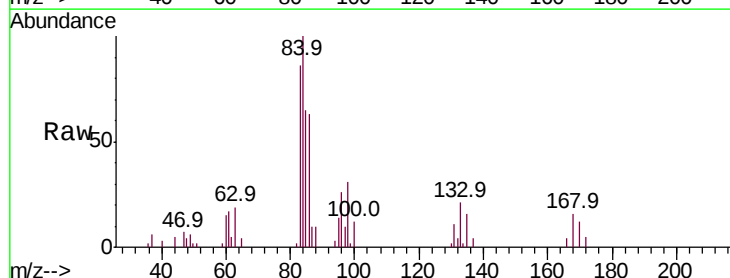
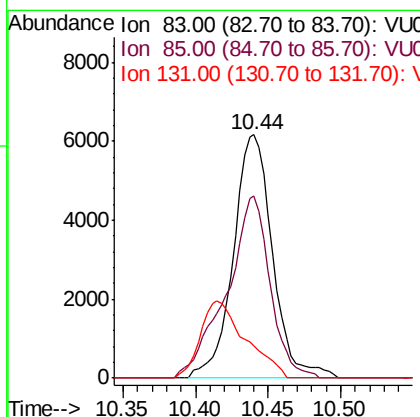
RT: 10.44 min Scan# 2908

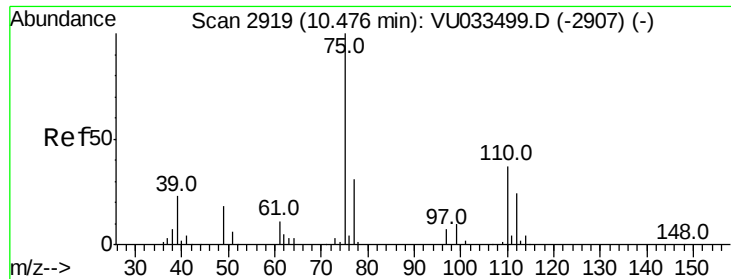
Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Tgt Ion:	83	Resp:	11592
Ion Ratio	Lower	Upper	
83	100		
85	74.8	45.4	84.4
131	13.1	7.9	11.9#





#59

1,2,3-Trichloropropane

Concen: 2.481 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 75 Resp: 8428

Ion Ratio Lower Upper

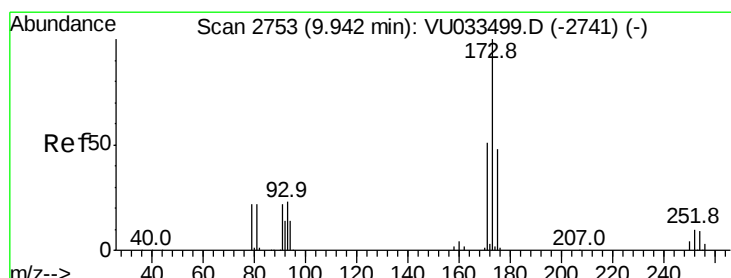
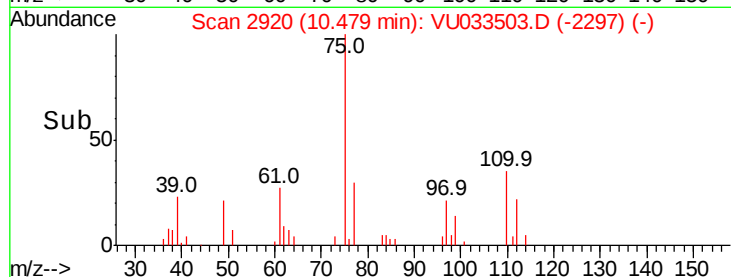
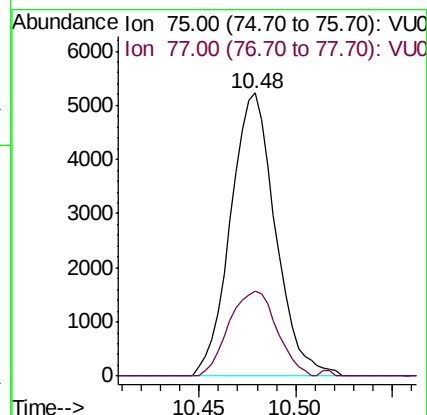
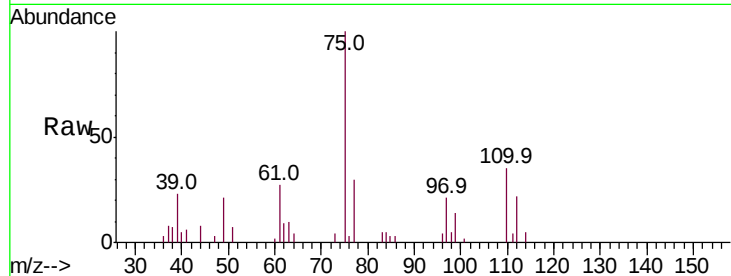
75 100

77 32.1 25.8 38.6

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#61

Bromoform

Concen: 2.295 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

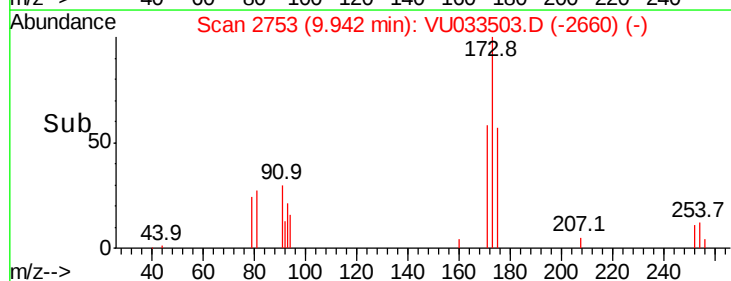
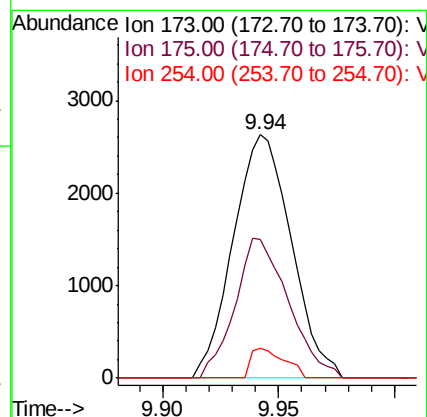
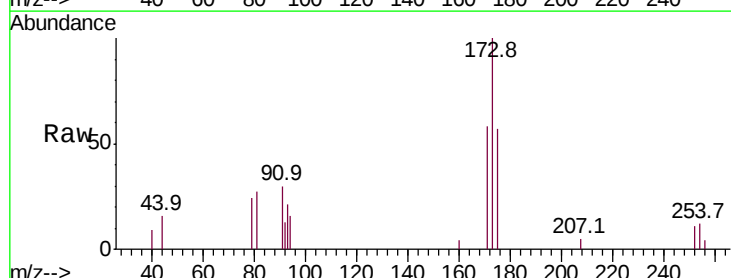
Tgt Ion: 173 Resp: 4578

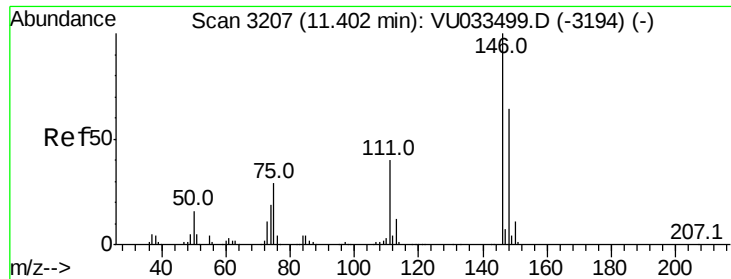
Ion Ratio Lower Upper

173 100

175 52.8 38.7 58.1

254 7.0 7.5 11.3#





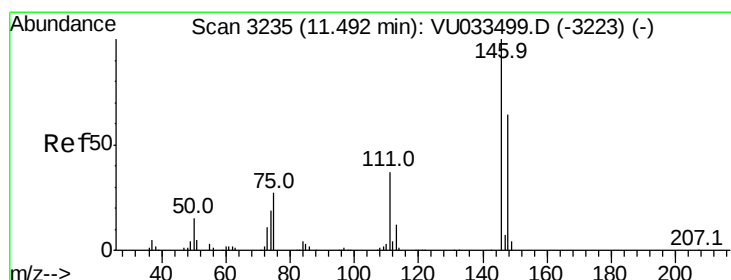
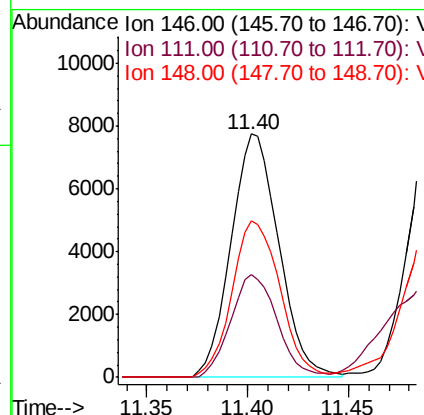
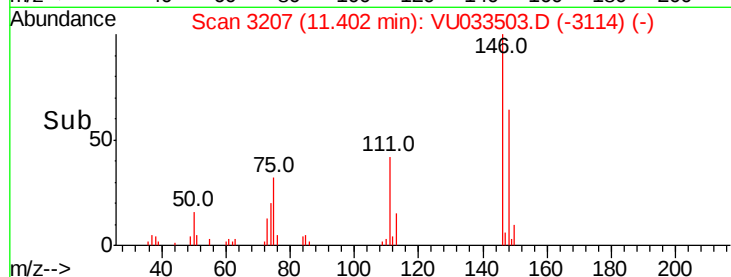
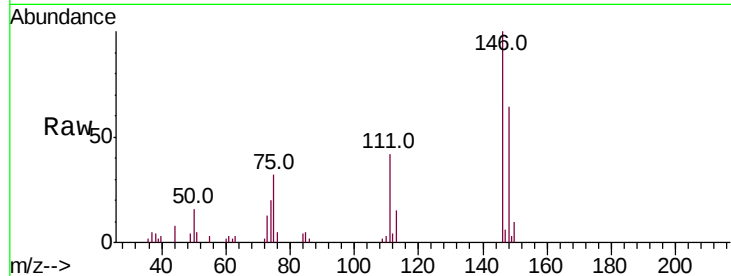
#62
 1,3-Dichlorobenzene
 Concen: 2.537 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033503.D
 Acq: 30 Jul 2019 19:34

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	28.1	52.1
148	64.2	45.0	83.6

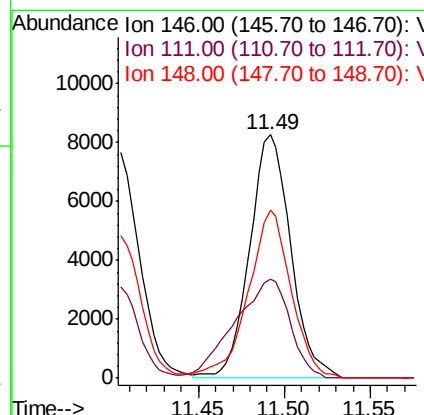
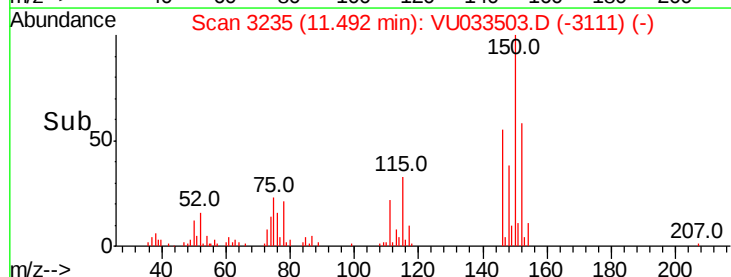
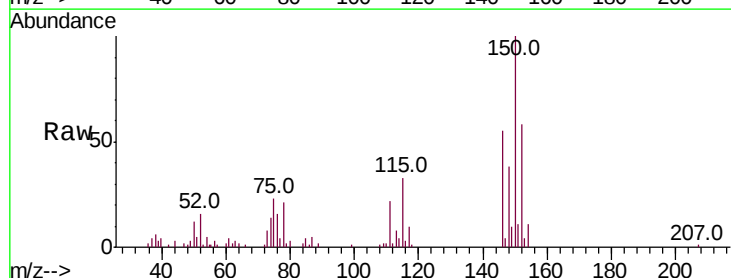
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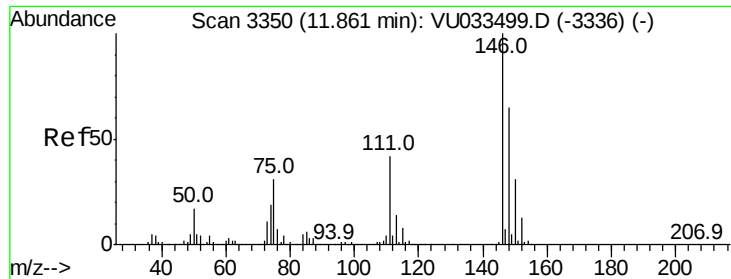
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#63
 1,4-Dichlorobenzene
 Concen: 2.615 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU033503.D
 Acq: 30 Jul 2019 19:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	27.2	50.4
148	68.8	44.5	82.7





#65

1,2-Dichlorobenzene

Concen: 2.724 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Instrument :

MSVOA_U

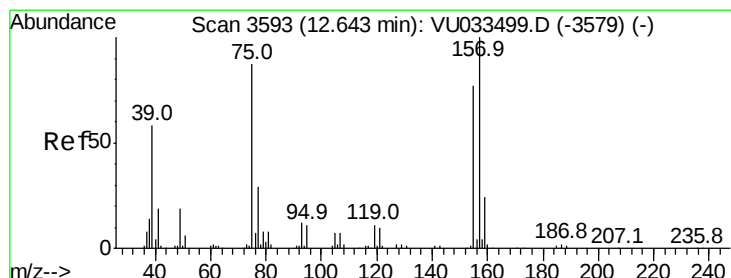
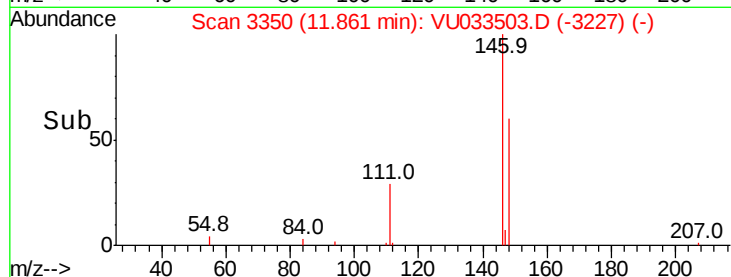
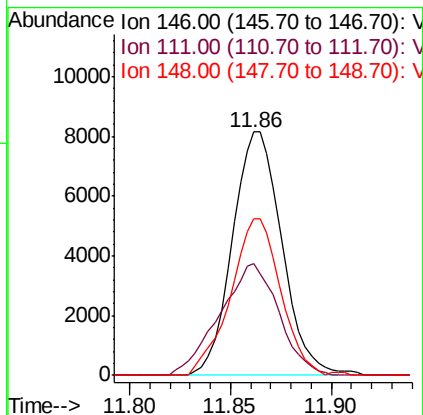
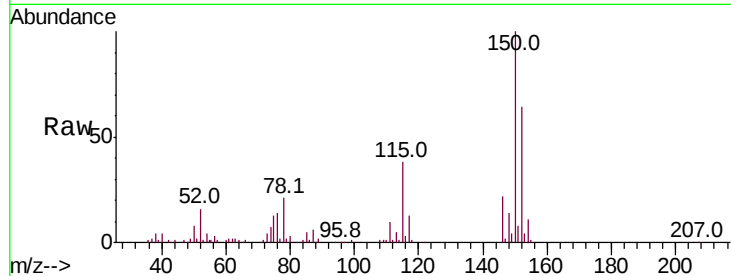
ClientSampled :

MDL03

Tot Ion:	146	Resp:	13966
Ion Ratio	Lower	Upper	
146	100		
111	45.9	31.7	47.5
148	64.4	50.3	75.5

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#66

1,2-Dibromo-3-chloropropane

Concen: 2.431 ug/L

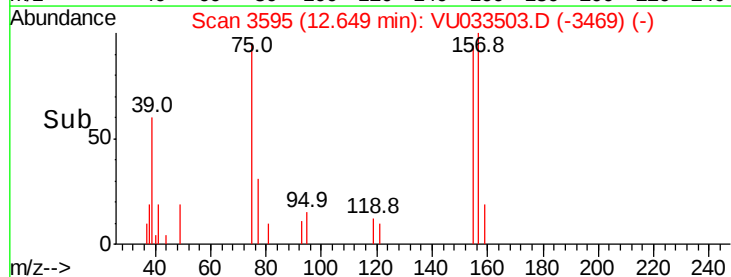
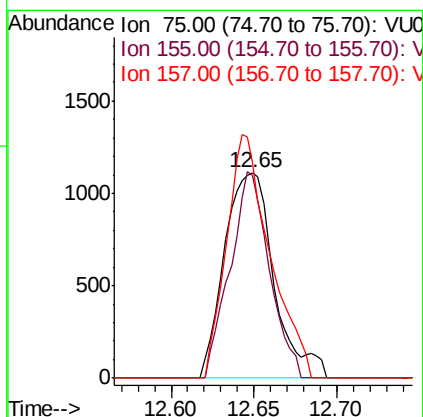
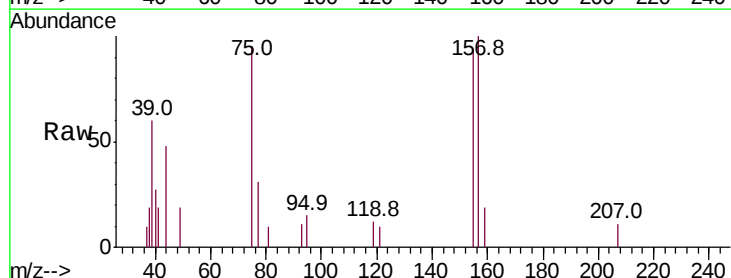
RT: 12.65 min Scan# 3595

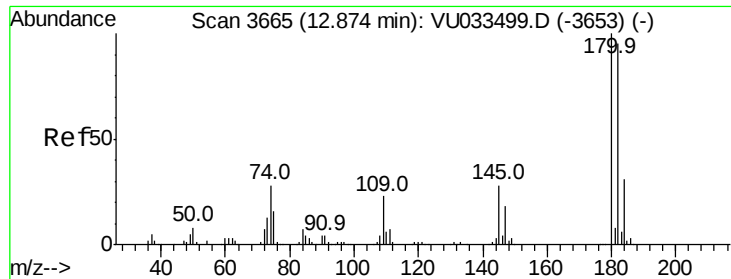
Delta R.T. 0.01 min

Lab File: VU033503.D

Acq: 30 Jul 2019 19:34

Tgt Ion:	75	Resp:	2303
Ion Ratio	Lower	Upper	
75	100		
155	98.5	69.4	104.0
157	105.0	91.8	137.8





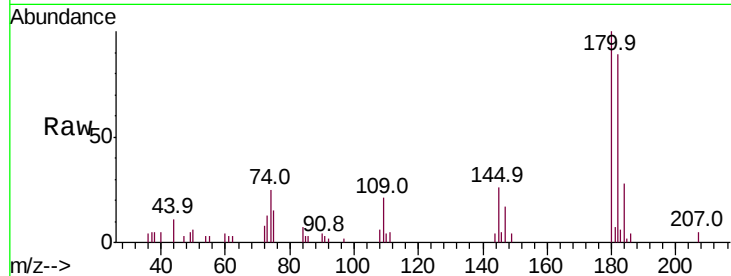
#67
 1,3,5-Trichlorobenzene
 Concen: 2.281 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033503.D
 Acq: 30 Jul 2019 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.7	75.6	113.4
184	30.3	24.2	36.2
145	27.8	22.7	34.1

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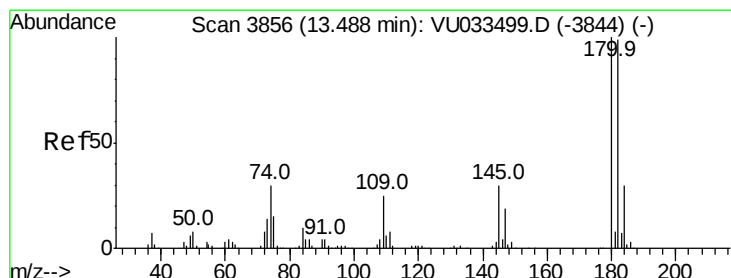
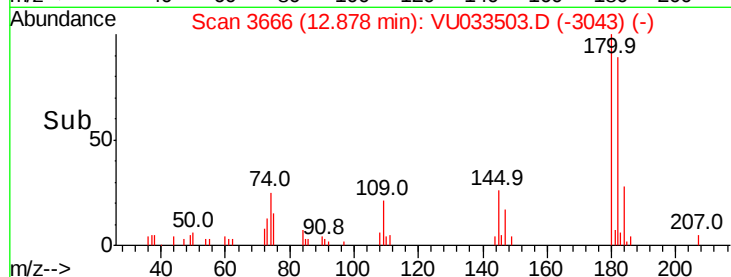
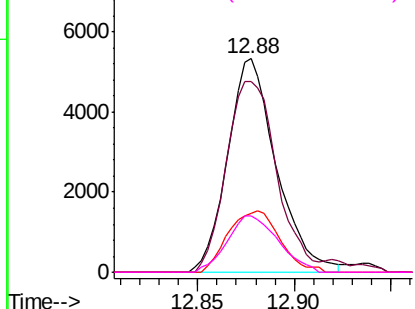
Abundance

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: 1.963 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033503.D
 Acq: 30 Jul 2019 19:34

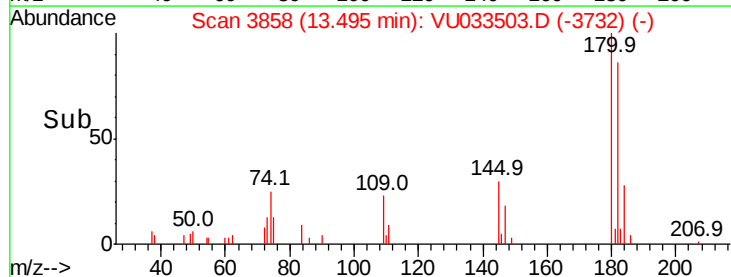
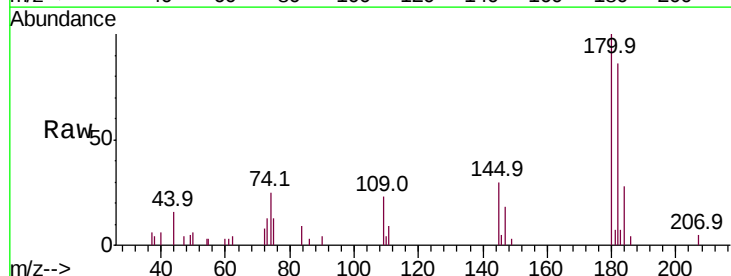
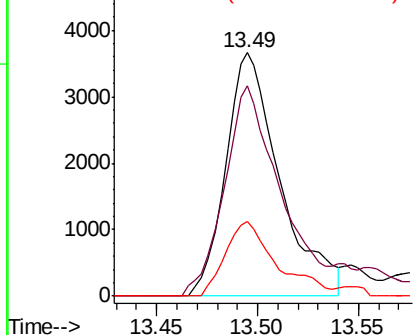
Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.3	75.8	113.8
145	25.2	24.3	36.5

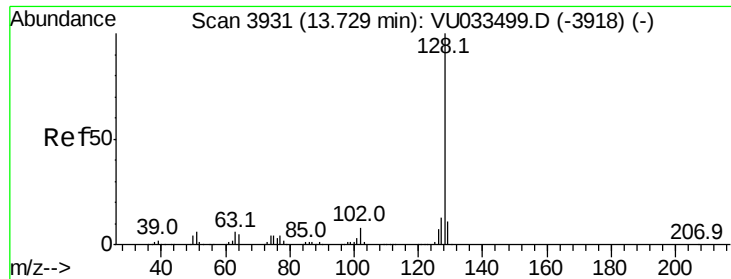
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





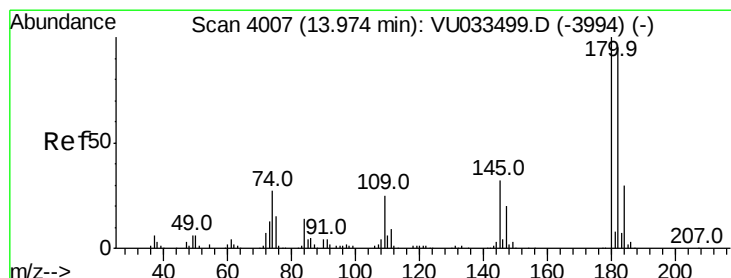
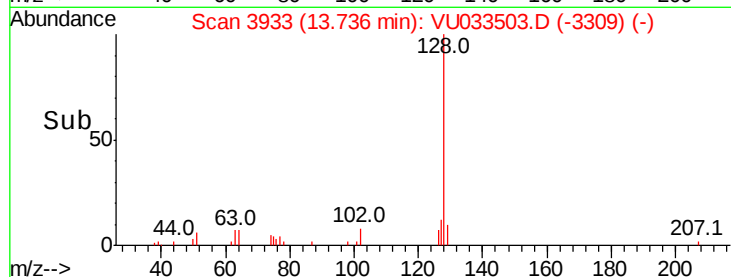
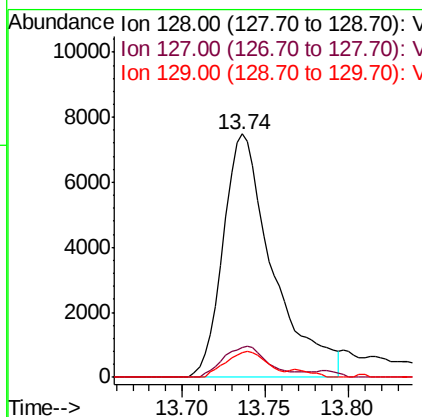
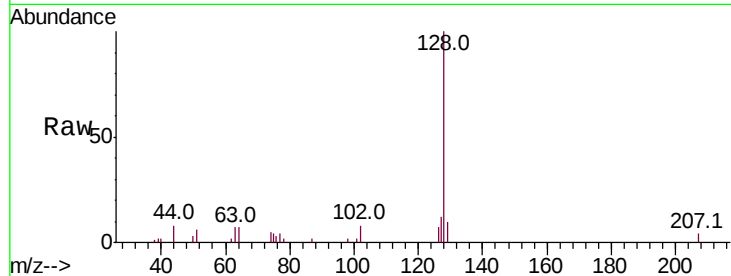
#69
Naphthalene
Concen: 1.558 ug/L
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.8	16.2
129	8.8	8.7	13.1

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#70
1,2,3-Trichlorobenzene
Concen: 1.948 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033503.D
Acq: 30 Jul 2019 19:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.8	75.5	113.3
145	28.1	24.4	36.6

