

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080119\
 Data File : VU033543.D
 Acq On : 01 Aug 2019 12:03
 Operator : JC/SP
 Sample : MDL06
 Misc : 5.00u/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 8:29:33 AM

Quant Time: Aug 02 02:25:01 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M

Quant Title : VOC Analysis

QLast Update : Fri Aug 02 01:49:55 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	300883	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	301654	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	147064	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	99457	45.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.92%
7) Chloroethane-d5	1.67	69	89652	47.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.54%
11) 1,1-Dichloroethene-d2	2.26	63	138336	34.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.68%
21) 2-Butanone-d5	4.15	46	168060	115.99	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.99%
24) Chloroform-d	4.62	84	188969	51.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.06%
26) 1,2-Dichloroethane-d4	5.28	65	124662	53.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.36%
32) Benzene-d6	5.32	84	383188	51.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.48%
36) 1,2-Dichloropropane-d6	6.31	67	124589	53.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.30%
41) Toluene-d8	7.55	98	343995	49.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.18%
43) trans-1,3-Dichloropropene-	7.83	79	55943	48.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.22%
47) 2-Hexanone-d5	8.29	63	117766	105.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.81%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	187890	51.98	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.96%
64) 1,2-Dichlorobenzene-d4	11.85	152	142959	53.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.16%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	7275	2.564 ug/L	98
3) Chloromethane	1.32	50	8230	2.880 ug/L	97
5) Vinyl chloride	1.39	62	8529	2.784 ug/L #	71
6) Bromomethane	1.62	94	5618	2.078 ug/L	96
8) Chloroethane	1.69	64	5350	2.874 ug/L	90
9) Trichlorofluoromethane	1.87	101	10988	2.742 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6490	3.194 ug/L #	86
12) 1,1-Dichloroethene	2.27	96	6014	3.087 ug/L #	1
13) Acetone	2.31	43	7839	5.288 ug/L	99
14) Carbon disulfide	2.46	76	15363	2.514 ug/L	97
15) Methyl Acetate	2.60	43	6313	2.675 ug/L	99
16) Methylene chloride	2.68	84	6645	2.986 ug/L	85
17) trans-1,2-Dichloroethene	2.96	96	5306	2.599 ug/L	96
18) Methyl tert-butyl Ether	2.98	73	15925	2.558 ug/L	99
19) 1,1-Dichloroethane	3.42	63	10291	2.686 ug/L	94
20) cis-1,2-Dichloroethene	4.21	96	6482	2.829 ug/L	89
22) 2-Butanone	4.26	43	8753m	4.946 ug/L	

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Manual Integrations
 APPROVED

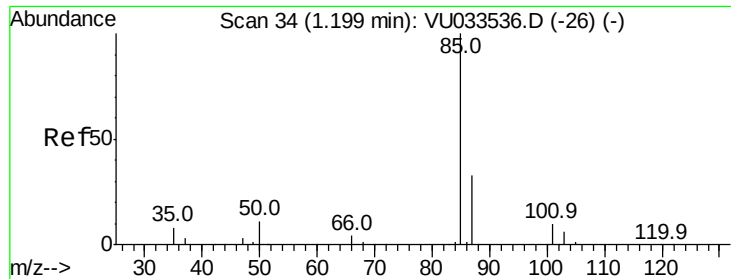
MMDadoda
 8/2/2019 8:29:33 AM

Quant Time: Aug 02 02:25:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 02 01:49:55 2019
 Response via : Initial Calibration

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

23) Bromochloromethane	4.53	128	3108	2.600	ug/L	96
25) Chloroform	4.65	83	14451	3.584	ug/L	99
27) 1,2-Dichloroethane	5.39	62	8783	2.829	ug/L	97
29) Cyclohexane	4.97	56	7576	2.302	ug/L #	91
30) 1,1,1-Trichloroethane	4.88	97	8882m	2.559	ug/L	
31) Carbon tetrachloride	5.12	117	7832m	2.591	ug/L	
33) Benzene	5.37	78	22991	2.642	ug/L	100
34) Trichloroethene	6.17	95	6423	2.798	ug/L	90
35) Methylcyclohexane	6.39	83	8242	2.301	ug/L	98
37) 1,2-Dichloropropane	6.41	63	6523	2.800	ug/L #	95
38) Bromodichloromethane	6.74	83	7987	2.652	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	8959m	2.464	ug/L	
40) 4-Methyl-2-pentanone	7.44	43	15609	4.853	ug/L	95
42) Toluene	7.62	91	25282	2.702	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	8525	2.595	ug/L	89
45) 1,1,2-Trichloroethane	8.05	97	5880	2.659	ug/L	96
46) Tetrachloroethene	8.21	164	4590	2.449	ug/L	95
48) 2-Hexanone	8.35	43	16400	6.309	ug/L #	91
49) Dibromochloromethane	8.46	129	6822	2.712	ug/L	92
50) 1,2-Dibromoethane	8.57	107	6340	2.588	ug/L #	93
51) Chlorobenzene	9.10	112	15679	2.559	ug/L	98
52) Ethylbenzene	9.23	91	23261	2.309	ug/L	97
53) m,p-Xylene	9.36	106	8720	2.254	ug/L	97
54) o-xylene	9.76	106	8637	2.302	ug/L	91
55) Styrene	9.78	104	12986	2.038	ug/L	97
56) Isopropylbenzene	10.15	105	21267	2.169	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	11599	2.908	ug/L #	96
59) 1,2,3-Trichloropropane	10.48	75	8561	2.784	ug/L	100
61) Bromoform	9.94	173	4816	2.711	ug/L #	98
62) 1,3-Dichlorobenzene	11.40	146	11445	2.534	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	12984	2.767	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	12739	2.790	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.64	75	2064	2.446	ug/L	90
67) 1,3,5-Trichlorobenzene	12.88	180	8176	2.244	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	6139	1.972	ug/L	96
69) Naphthalene	13.74	128	14119m	1.581	ug/L	
70) 1,2,3-Trichlorobenzene	13.98	180	6491	1.982	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 2.564 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 85 Resp: 7275

Ion Ratio Lower Upper

85 100

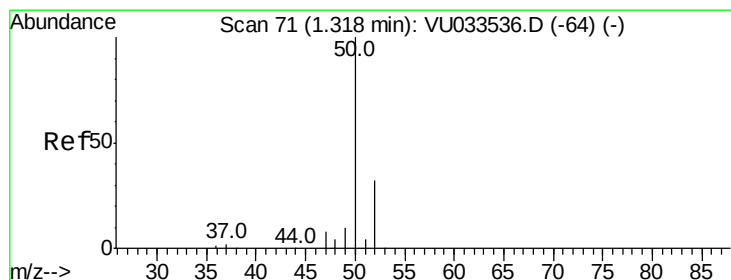
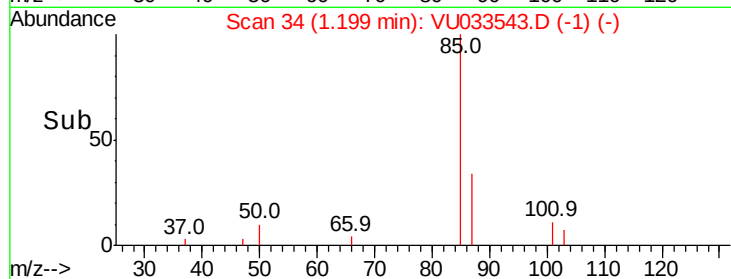
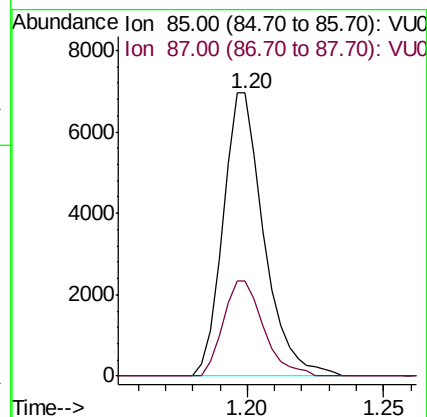
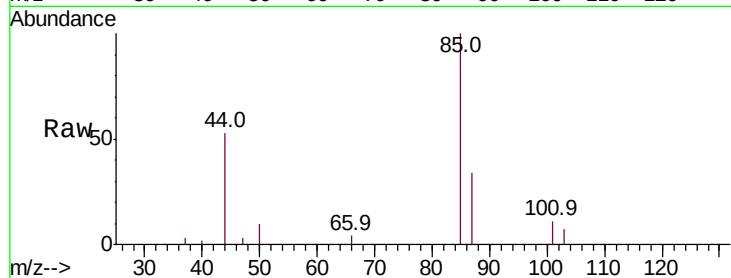
87 33.2 25.4 38.2

Manual Integrations

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#3

Chloromethane

Concen: 2.880 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033543.D

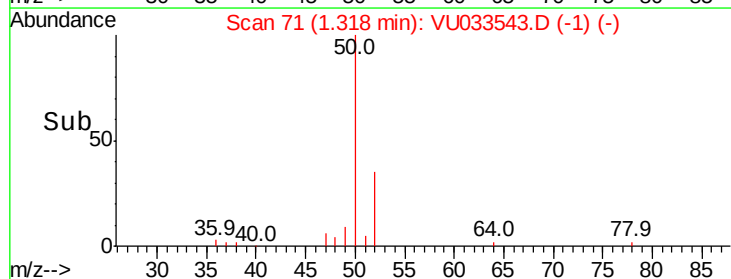
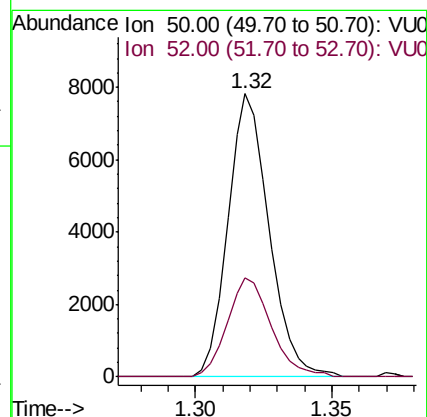
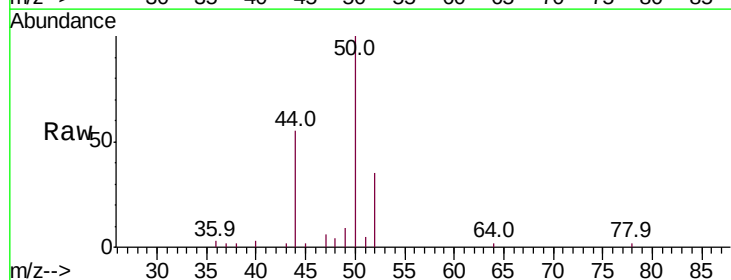
Acq: 01 Aug 2019 12:03

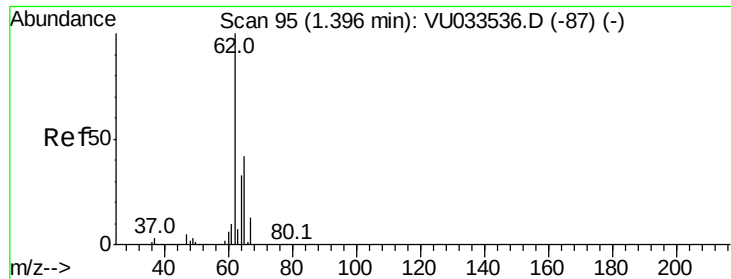
Tgt Ion: 50 Resp: 8230

Ion Ratio Lower Upper

50 100

52 34.9 23.1 42.9





#5

Vinyl chloride

Concen: 2.784 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 62 Resp: 8529

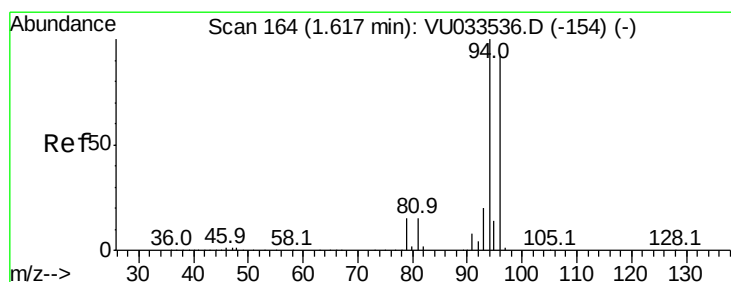
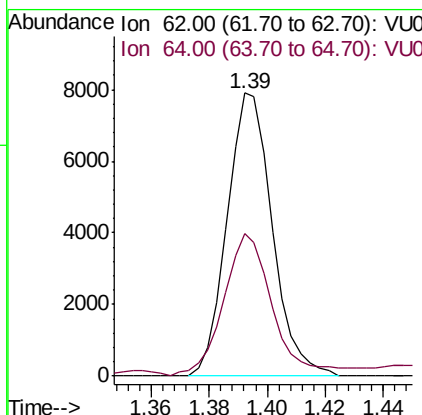
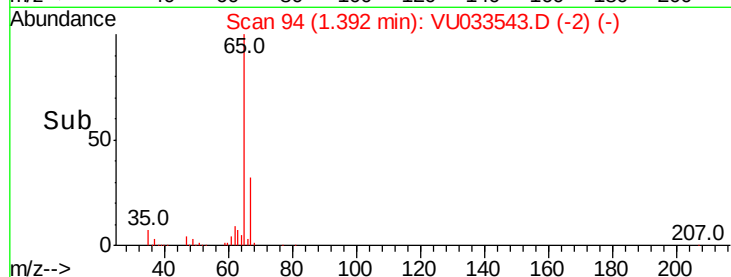
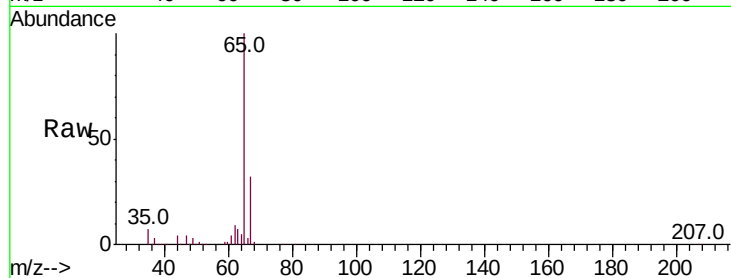
Ion Ratio Lower Upper

62 100

64 50.2 23.4 43.4#

Manual Integrations
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#6

Bromomethane

Concen: 2.078 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU033543.D

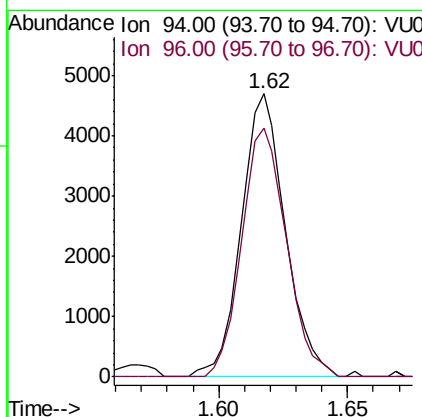
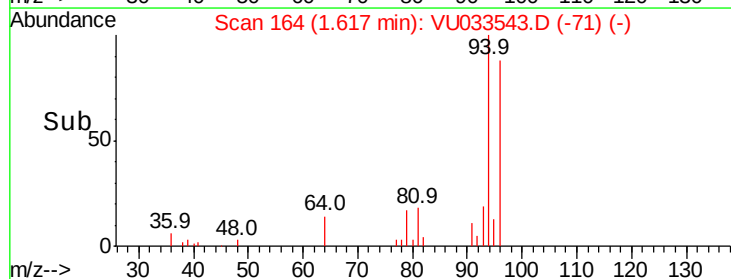
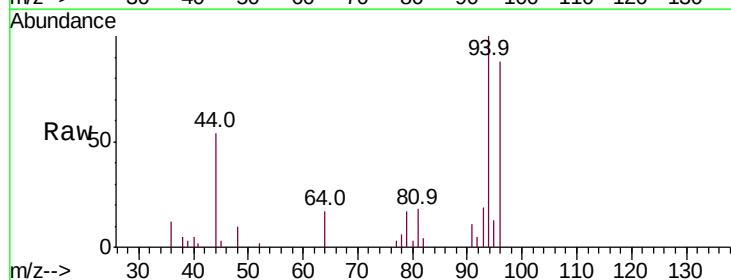
Acq: 01 Aug 2019 12:03

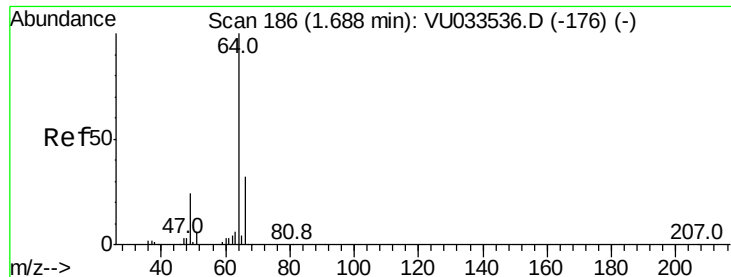
Tgt Ion: 94 Resp: 5618

Ion Ratio Lower Upper

94 100

96 88.1 64.4 119.6





#8

Chloroethane

Concen: 2.874 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 64 Resp: 5350

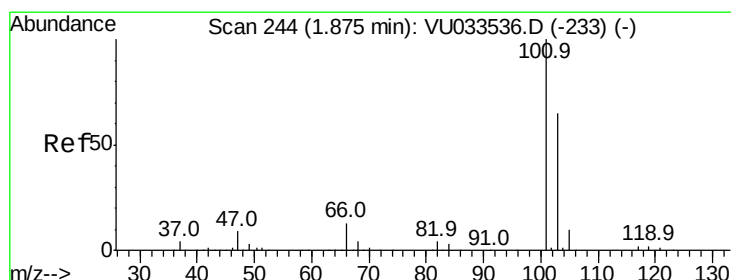
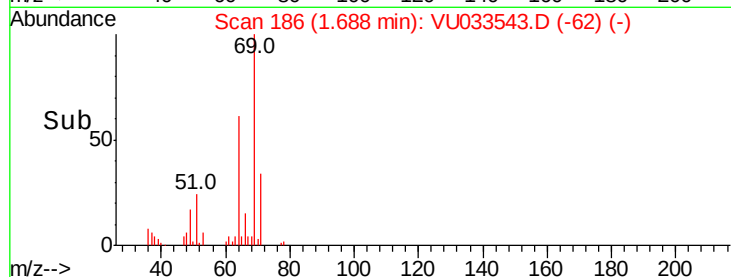
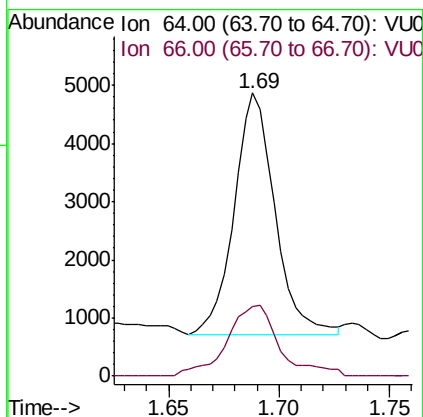
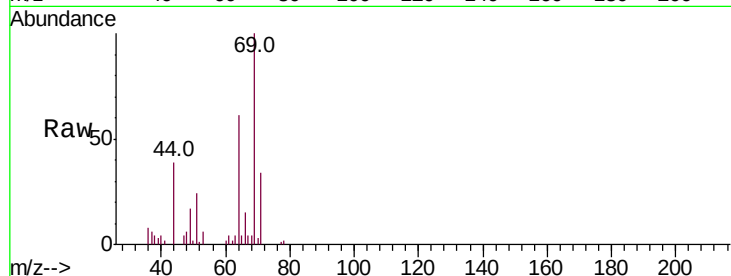
Ion Ratio Lower Upper

64 100

66 24.6 21.1 39.3

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 2.742 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033543.D

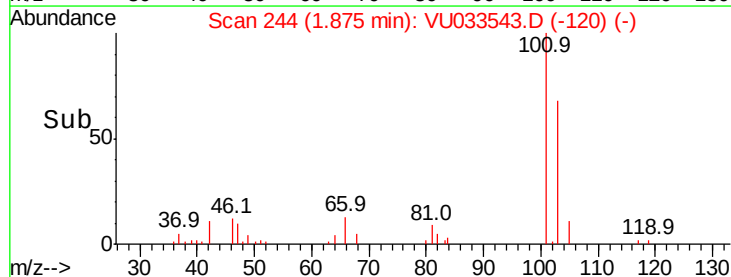
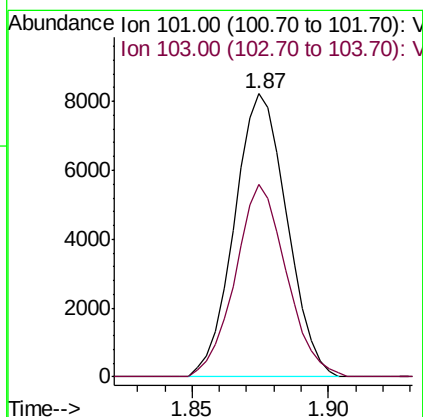
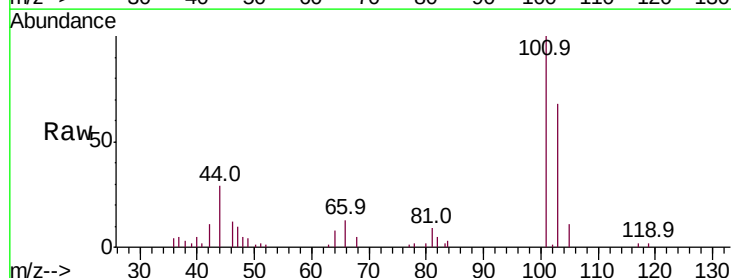
Acq: 01 Aug 2019 12:03

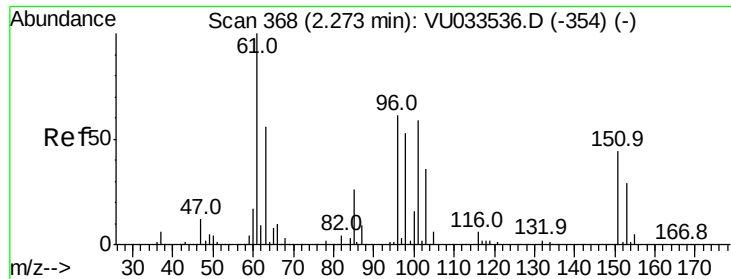
Tgt Ion: 101 Resp: 10988

Ion Ratio Lower Upper

101 100

103 66.2 51.6 77.4





#10

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

Concen: 3.194 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

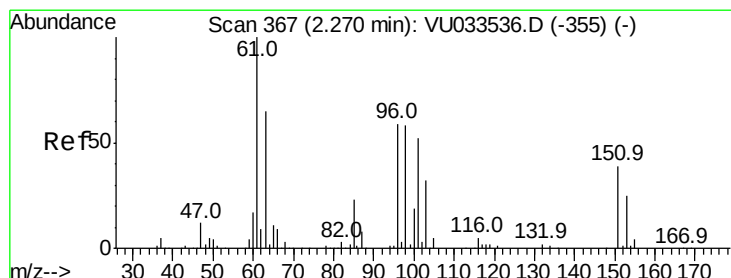
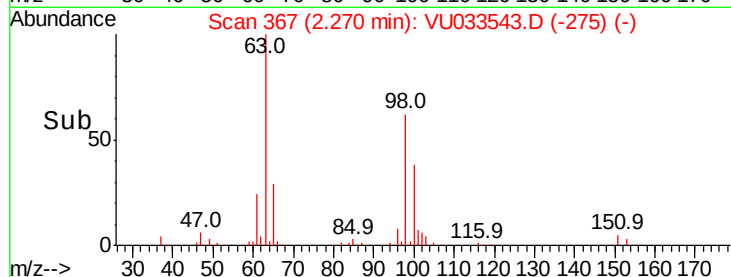
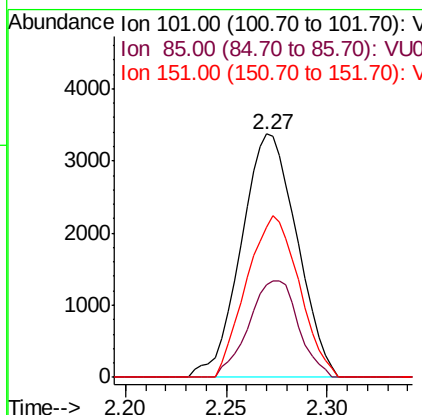
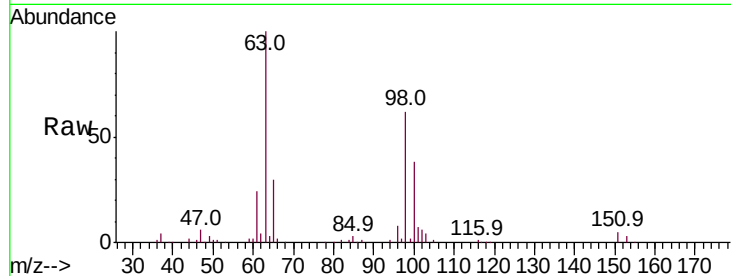
ClientSampleId :

MDL06

Tot Ion:	101	Resp:	6490
Ion Ratio	Lower	Upper	
101	100		
85	35.4	35.8	53.8#
151	62.9	60.1	90.1

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#12

1,1-Dichloroethene

Concen: 3.087 ug/L

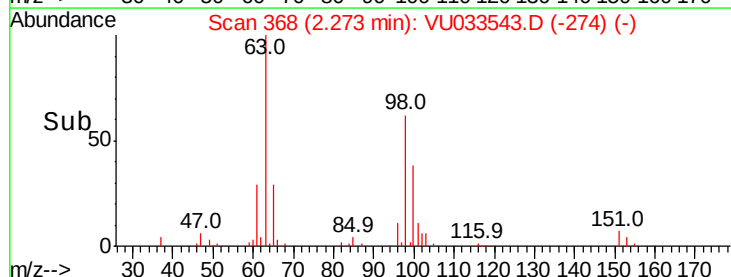
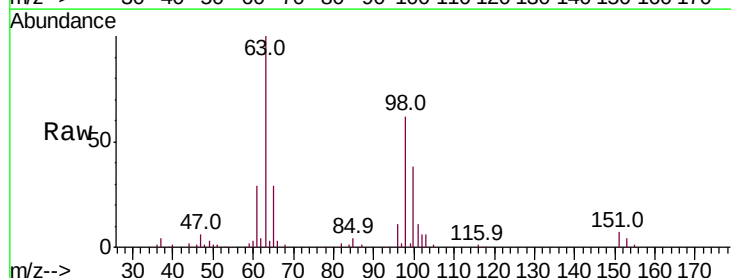
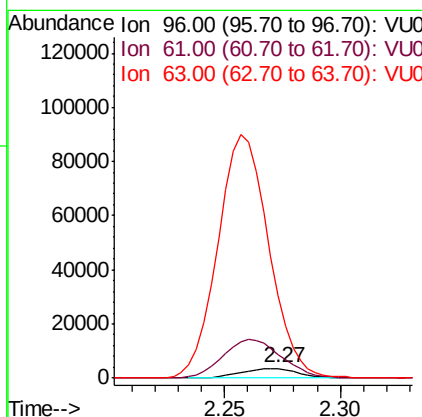
RT: 2.27 min Scan# 368

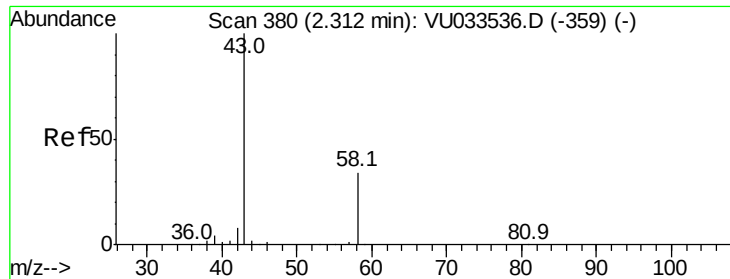
Delta R.T. 0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Tgt Ion:	96	Resp:	6014
Ion Ratio	Lower	Upper	
96	100		
61	256.4	119.3	221.5#
63	881.5	86.6	160.8#





#13

Acetone

Concen: 5.288 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 43 Resp: 7839

Ion Ratio Lower Upper

43 100

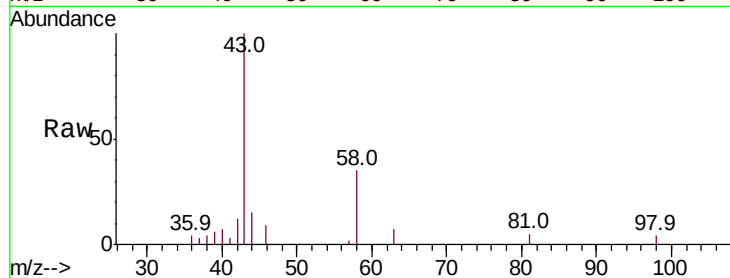
58 33.4 0.0 66.2

Manual Integrations

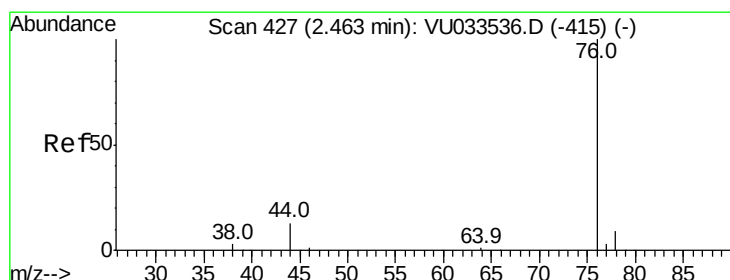
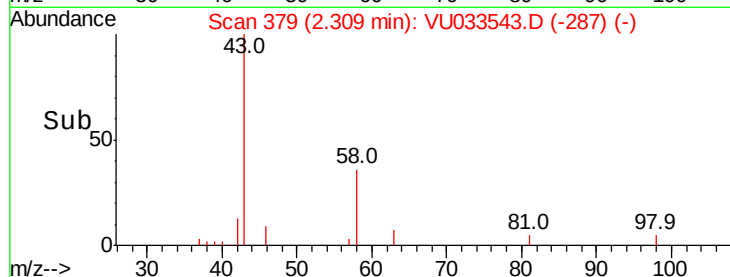
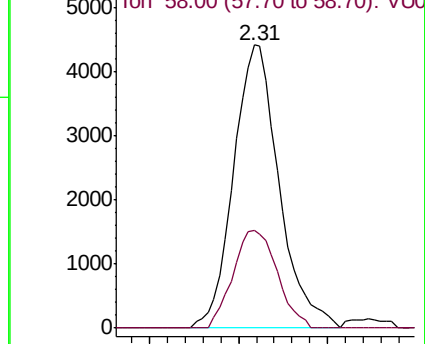
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8/2/2019 8:29:33 AM



Abundance Ion 43.00 (42.70 to 43.70): VU033536.D (-359) (-)



#14

Carbon disulfide

Concen: 2.514 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033543.D

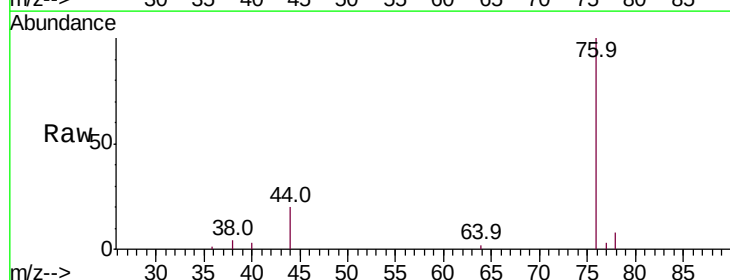
Acq: 01 Aug 2019 12:03

Tgt Ion: 76 Resp: 15363

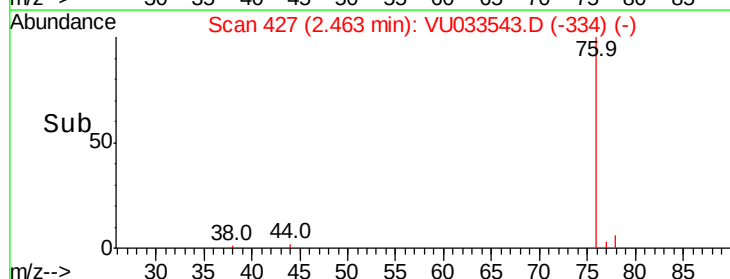
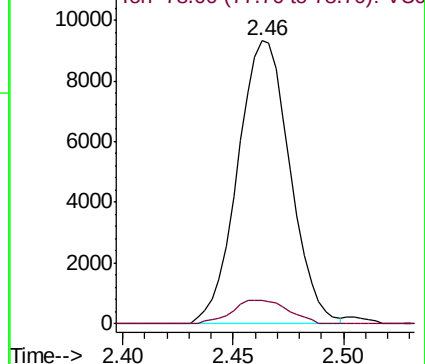
Ion Ratio Lower Upper

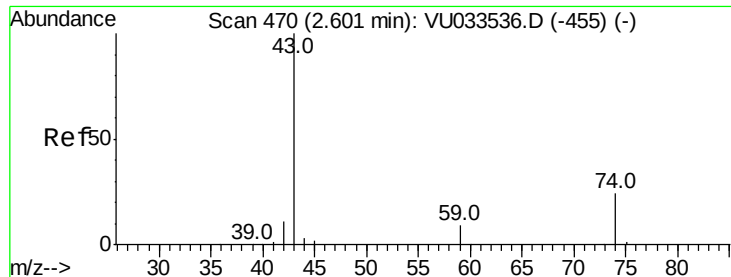
76 100

78 8.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033536.D (-415) (-)





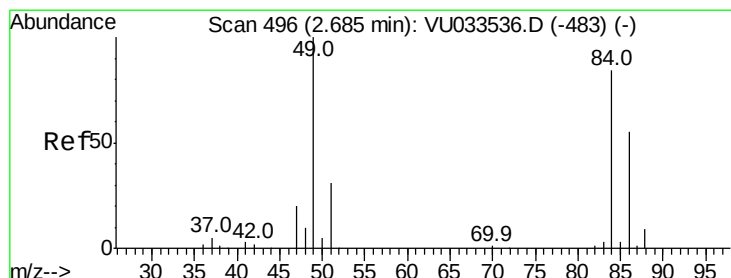
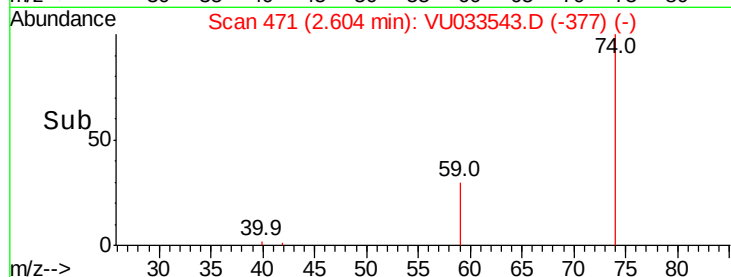
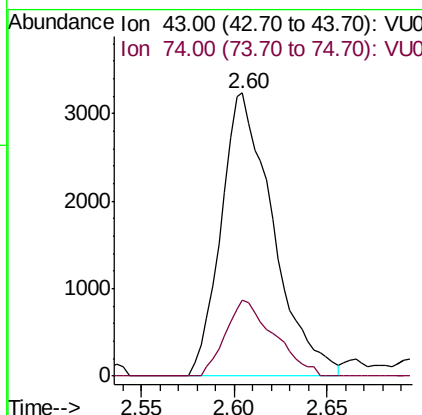
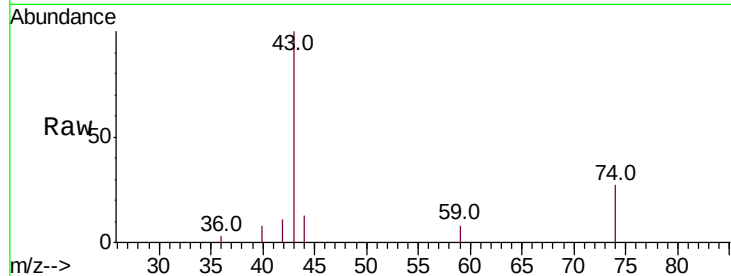
#15
Methvl Acetate
Concen: 2.675 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion: 43 Resp: 6313
Ion Ratio Lower Upper
43 100
74 24.8 20.1 30.1

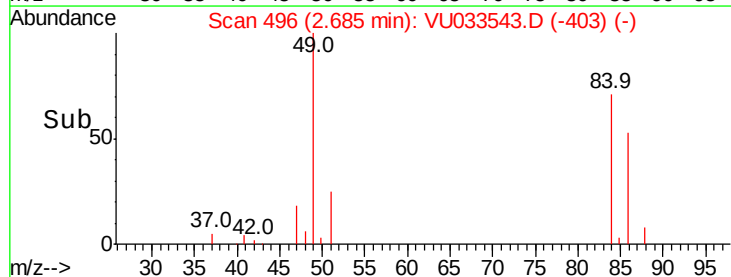
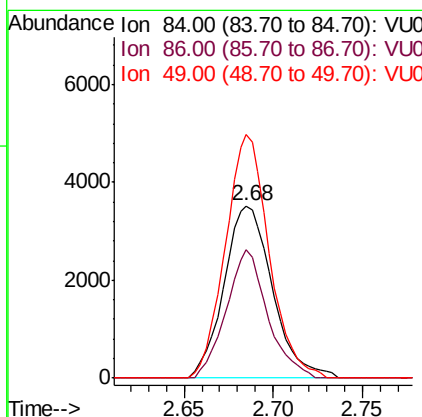
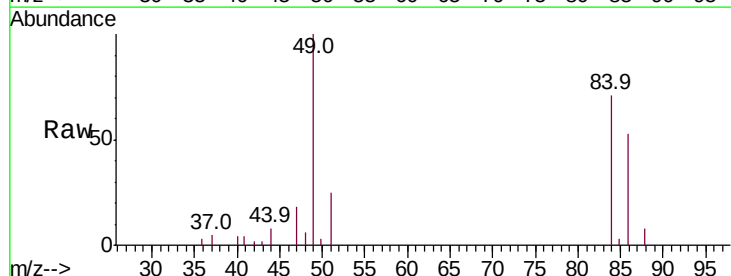
Manual Integrations
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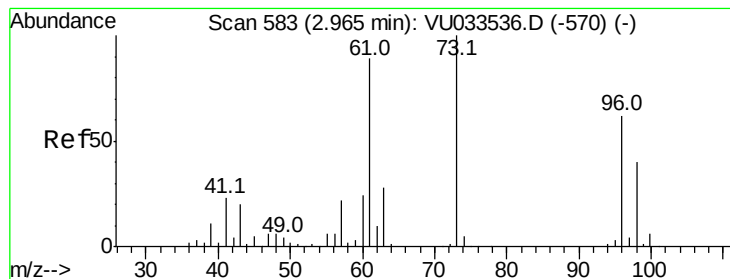
MMDadoda
8/2/2019 8:29:33 AM



#16
Methylene chloride
Concen: 2.986 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion: 84 Resp: 6645
Ion Ratio Lower Upper
84 100
86 74.2 45.7 84.9
49 141.1 85.0 158.0





#17

trans-1,2-Dichloroethene

Concen: 2.599 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 96 Resp: 5306

Ion Ratio Lower Upper

96 100

61 135.9 98.3 182.5

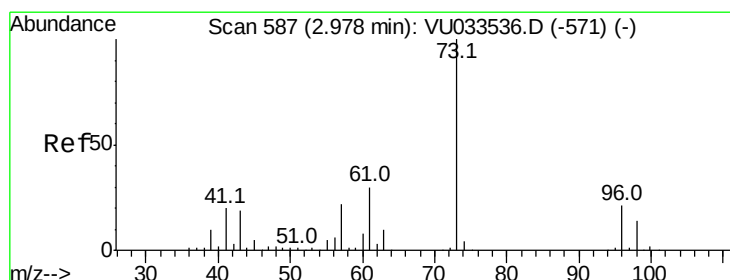
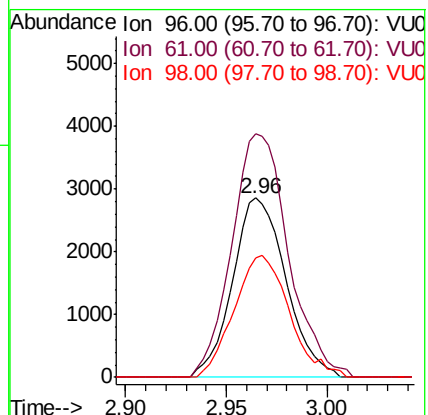
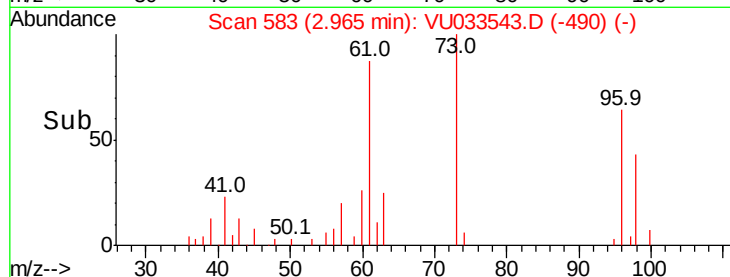
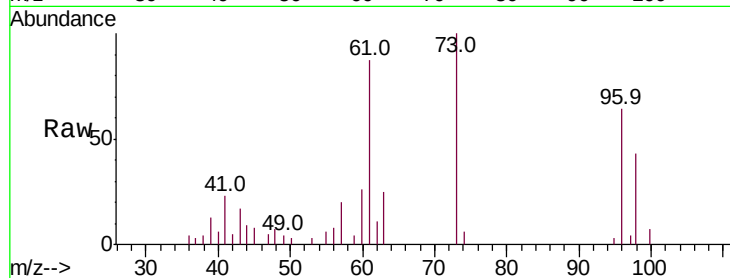
98 66.8 44.3 82.3

Manual Integrations

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#18

Methyl tert-butyl Ether

Concen: 2.558 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

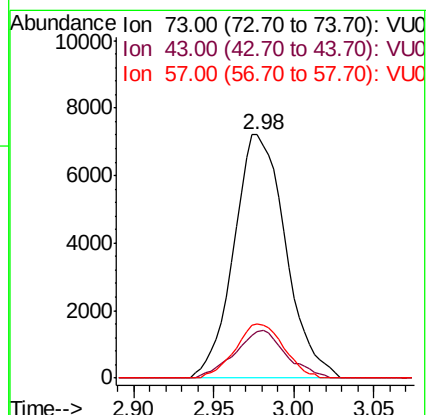
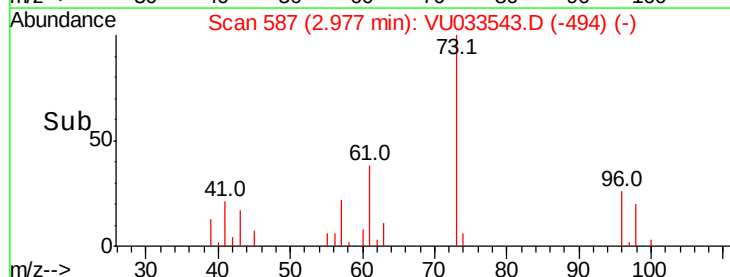
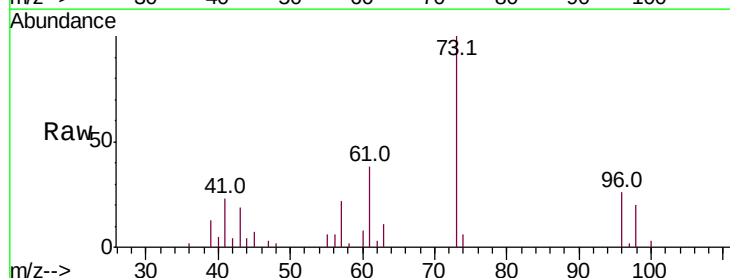
Tgt Ion: 73 Resp: 15925

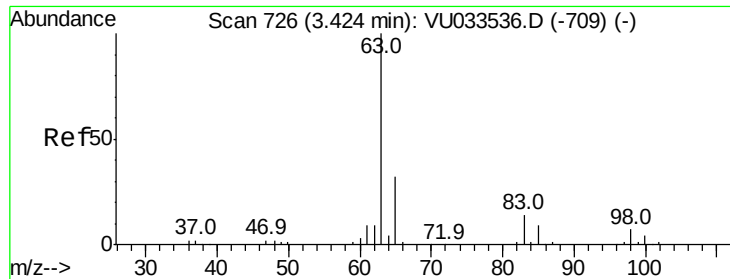
Ion Ratio Lower Upper

73 100

43 19.3 15.4 23.2

57 20.8 17.4 26.2





#19

1,1-Dichloroethane

Concen: 2.686 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

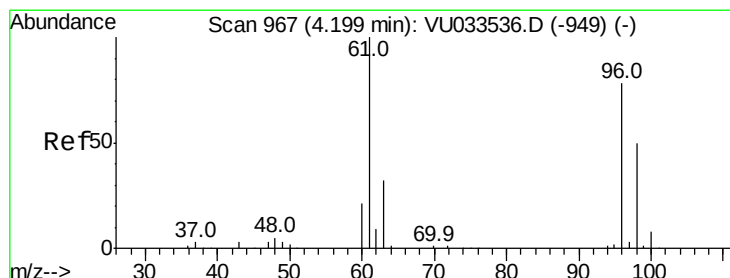
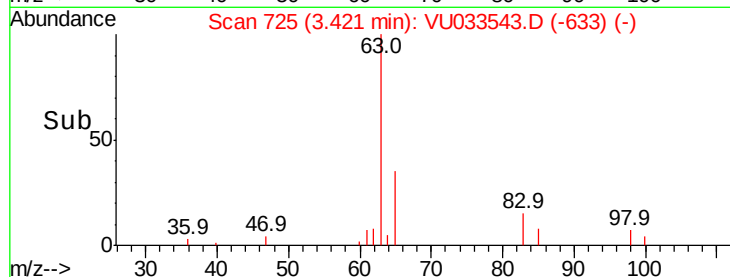
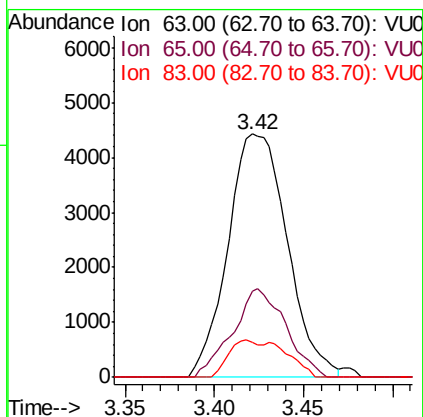
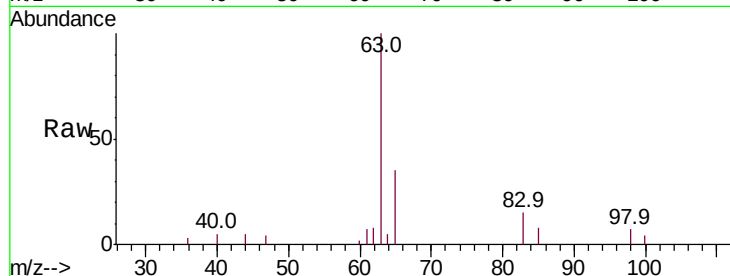
ClientSampled :

MDL06

Tot Ion:	63	Resp:	10291
Ion Ratio	Lower	Upper	
63	100		
65	35.4	22.0	40.8
83	14.6	9.5	17.7

Manual Integrations
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#20

cis-1,2-Dichloroethene

Concen: 2.829 ug/L

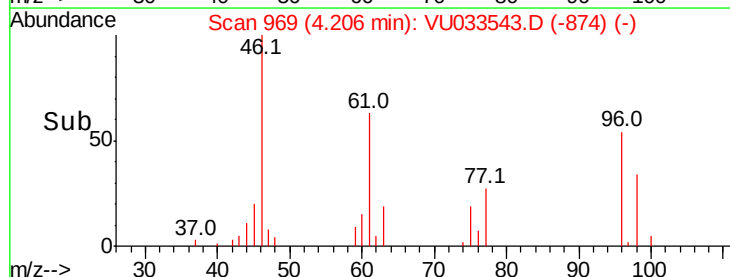
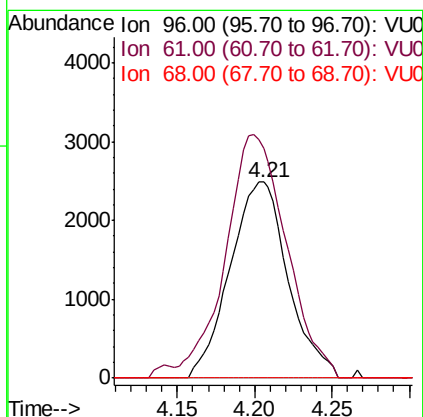
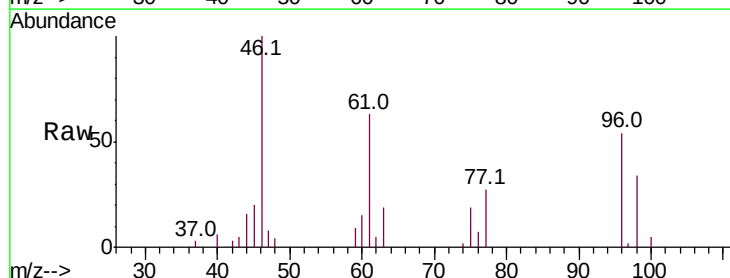
RT: 4.21 min Scan# 969

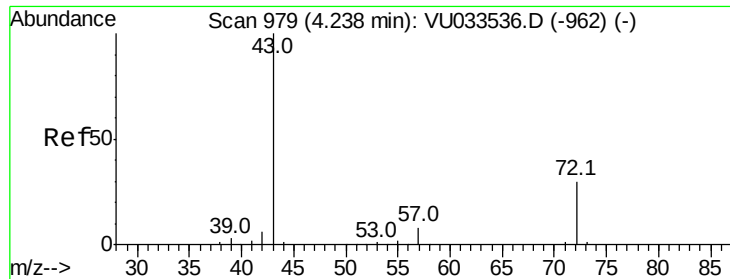
Delta R.T. 0.01 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Tgt Ion:	96	Resp:	6482
Ion Ratio	Lower	Upper	
96	100		
61	117.4	91.3	169.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.946 ug/L m

RT: 4.26 min Scan# 985

Delta R.T. 0.02 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Tot Ion: 43 Resp: 8753

Ion Ratio Lower Upper

43 100

72 27.2 14.2 42.6

Instrument :

MSVOA_U

ClientSampleId :

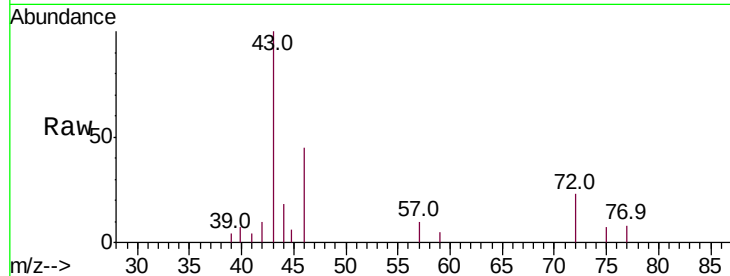
MDL06

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Abundance Ion 43.00 (42.70 to 43.70): VU033536.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033536.D (-962) (-)

4.26

3000

2500

2000

1500

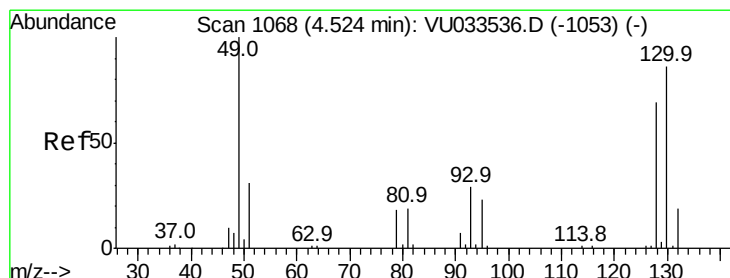
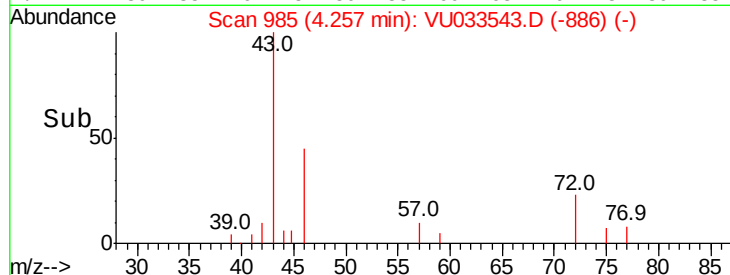
1000

500

0

4.15 4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 2.600 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Tgt Ion: 128 Resp: 3108

Ion Ratio Lower Upper

128 100

49 146.5 108.4 201.2

130 130.2 89.7 166.5

51 47.8 38.9 58.3

Abundance Ion 128.00 (127.70 to 128.70): VU033536.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033536.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033536.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033536.D (-1053) (-)

15000

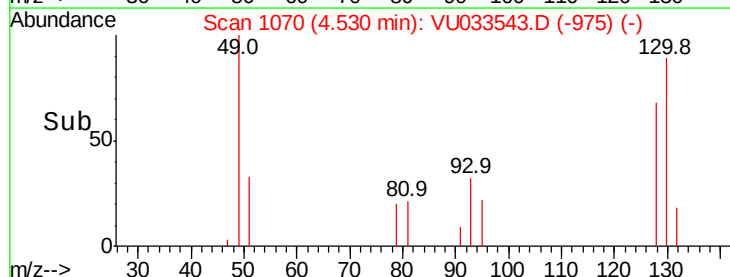
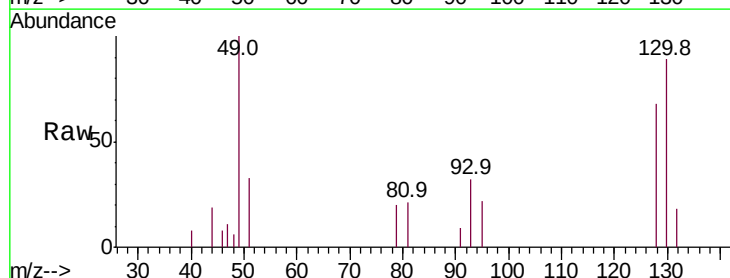
10000

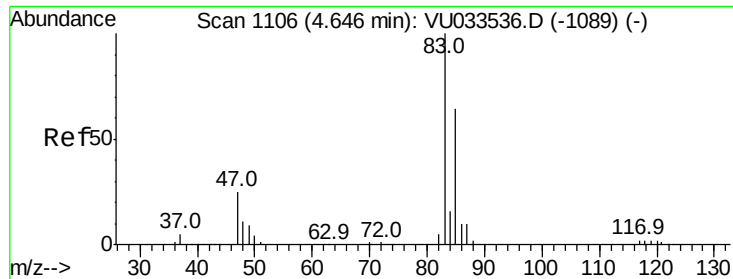
5000

0

4.50 4.55

Time-->





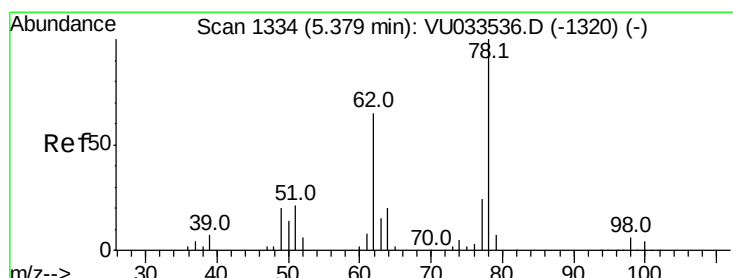
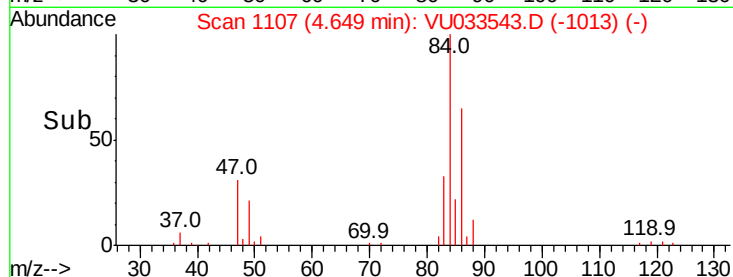
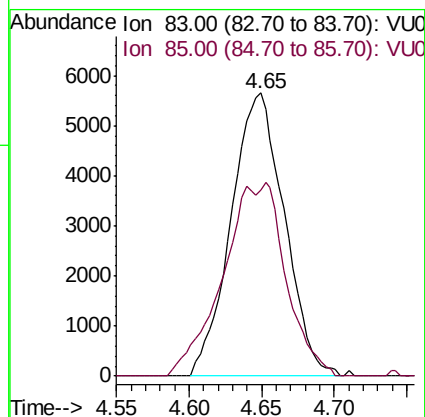
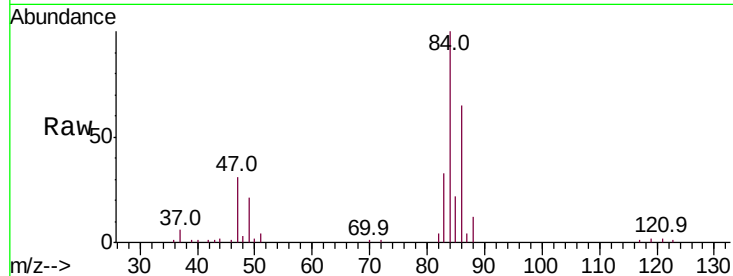
#25
Chloroform
Concen: 3.584 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion: 83 Resp: 14451
Ion Ratio Lower Upper
83 100
85 65.9 45.6 84.8

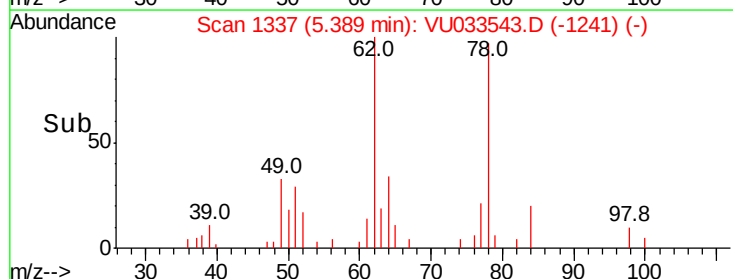
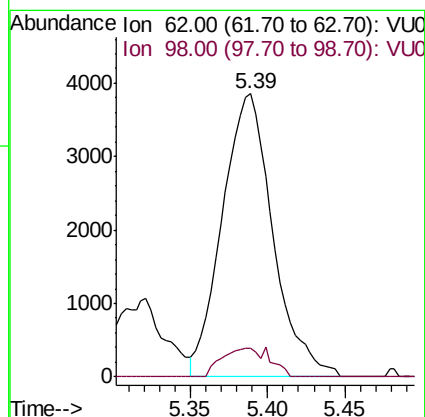
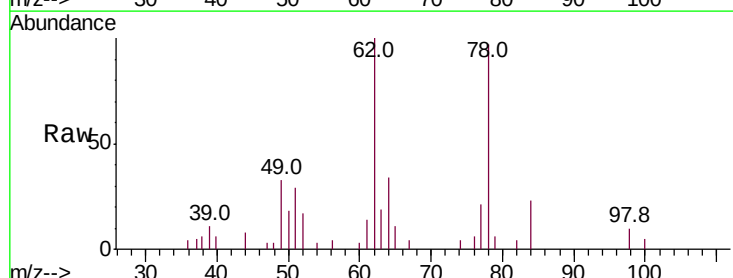
Manual Integrations
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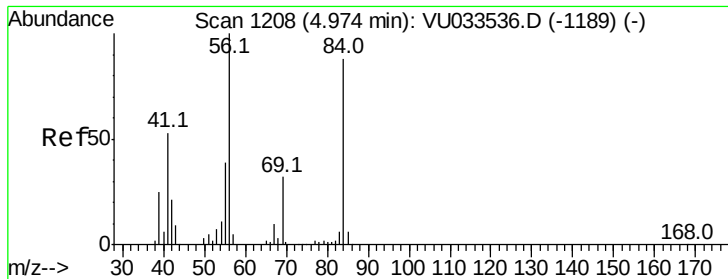
MMDadoda
8/2/2019 8:29:33 AM



#27
1,2-Dichloroethane
Concen: 2.829 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion: 62 Resp: 8783
Ion Ratio Lower Upper
62 100
98 10.0 7.2 10.8





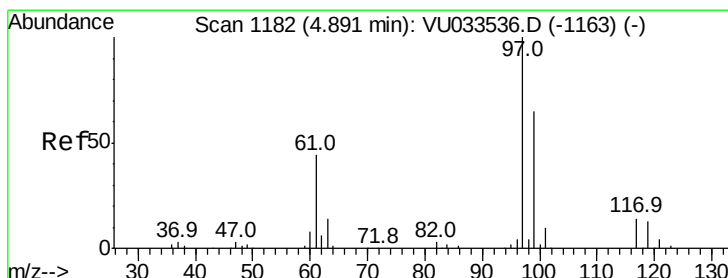
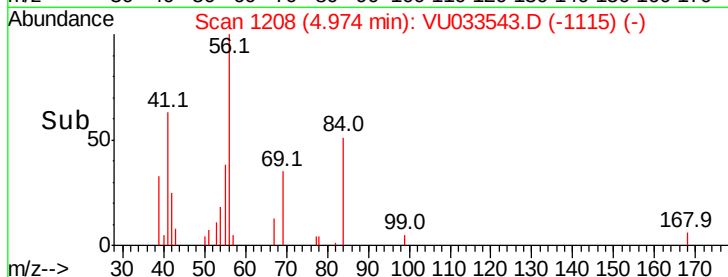
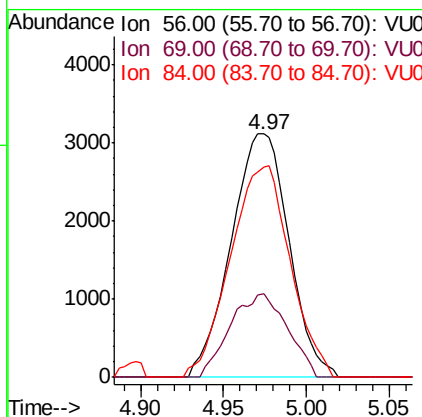
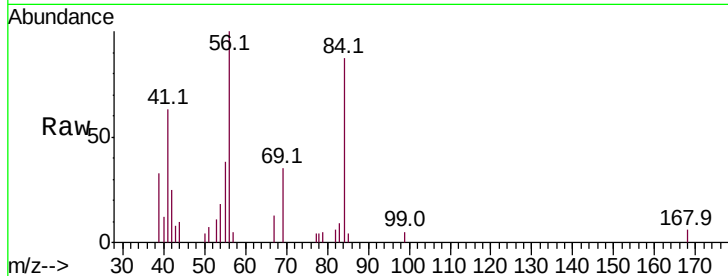
#29
Cyclohexane
Concen: 2.302 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ratio	Lower	Upper
56	100		
69	12.7	25.0	37.6#
84	90.0	71.6	107.4

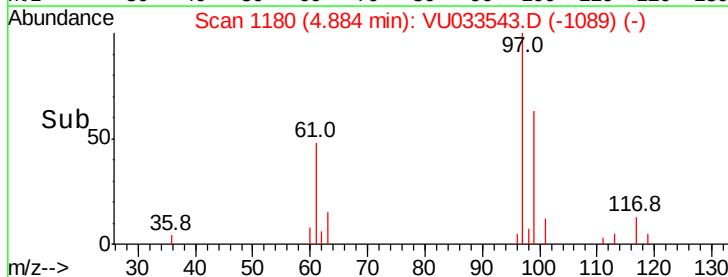
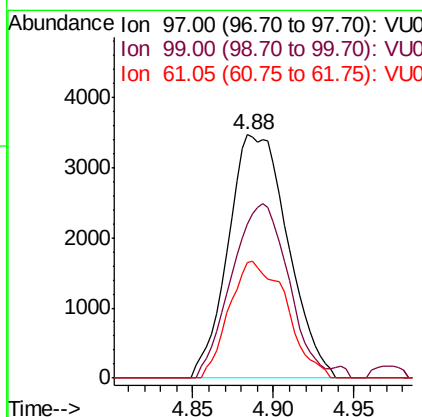
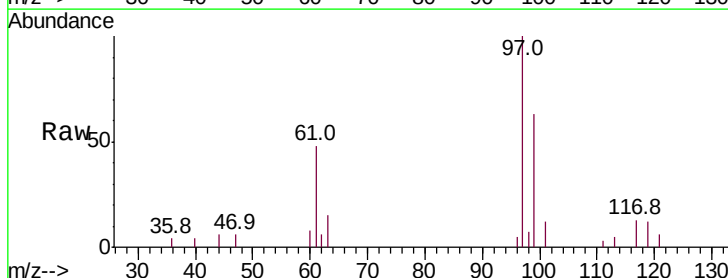
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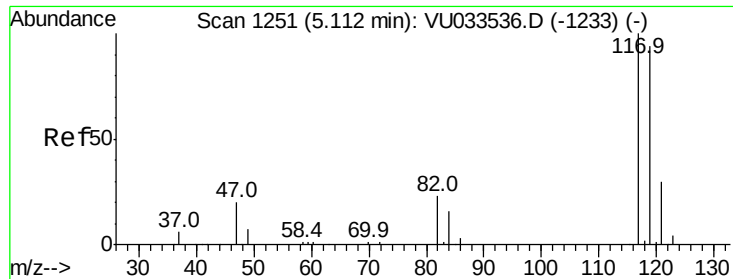
MMDadoda
8/2/2019 8:29:33 AM



#30
1,1,1-Trichloroethane
Concen: 2.559 ug/L m
RT: 4.88 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.2	51.1	76.7
61	33.4	35.5	53.3#





#31

Carbon tetrachloride

Concen: 2.591 ug/L m

RT: 5.12 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion:117 Resp: 7832

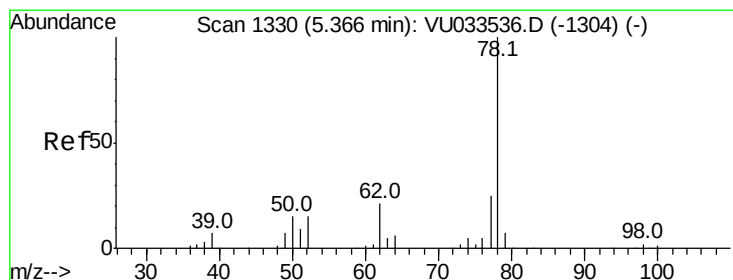
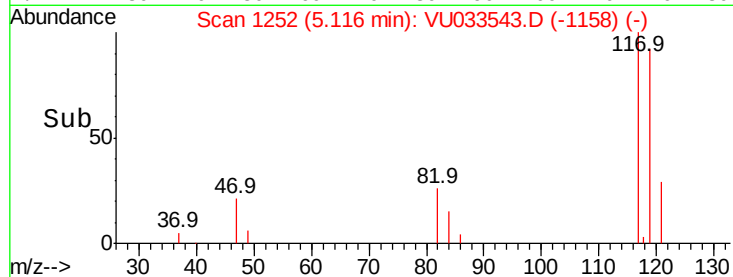
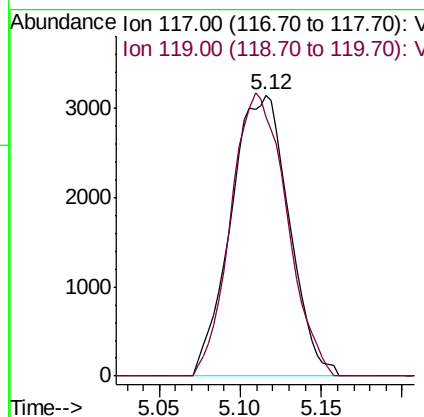
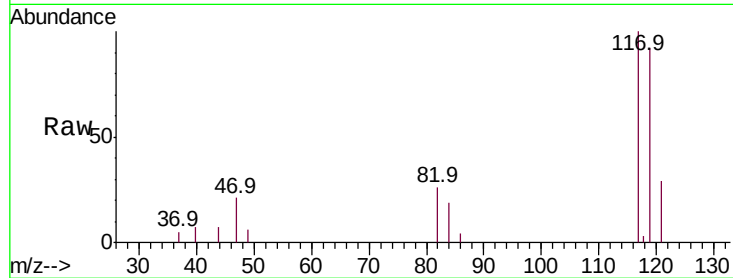
Ion Ratio Lower Upper

117 100

119 12.0 77.0 115.4#

Manual Integrations
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MMDadoda
8/2/2019 8:29:33 AM



#33

Benzene

Concen: 2.642 ug/L

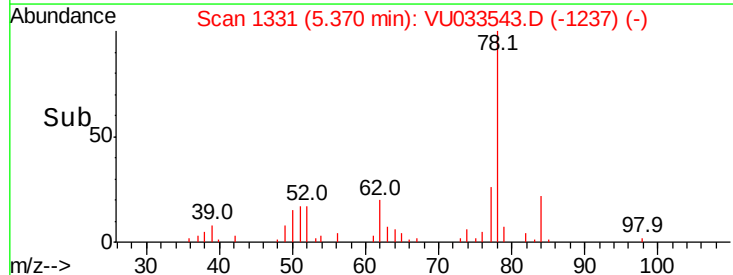
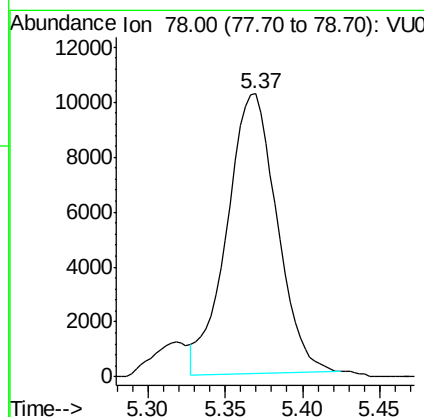
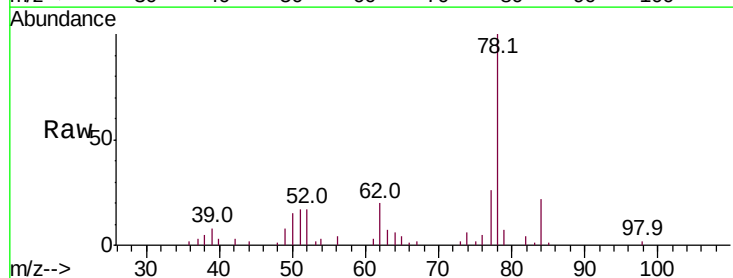
RT: 5.37 min Scan# 1331

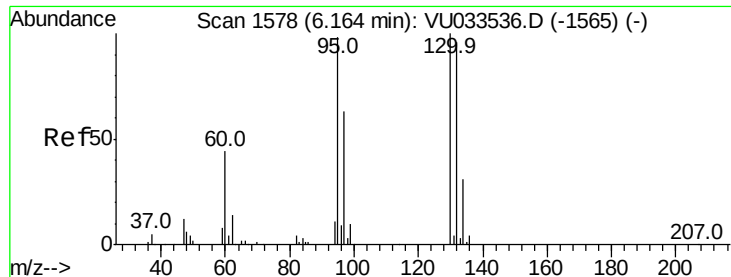
Delta R.T. 0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Tgt Ion: 78 Resp: 22991





#34

Trichloroethene

Concen: 2.798 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

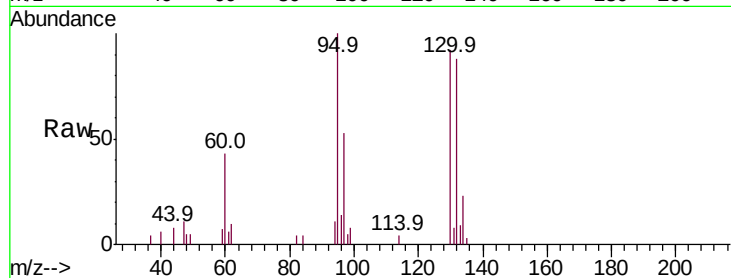
ClientSampleId :

MDL06

Tot Ion:	95	Resp:	6423
Ion	Ratio	Lower	Upper
95	100		
97	52.8	44.7	83.1
132	88.3	66.8	124.0
130	92.0	71.6	133.0

Manual Integrations
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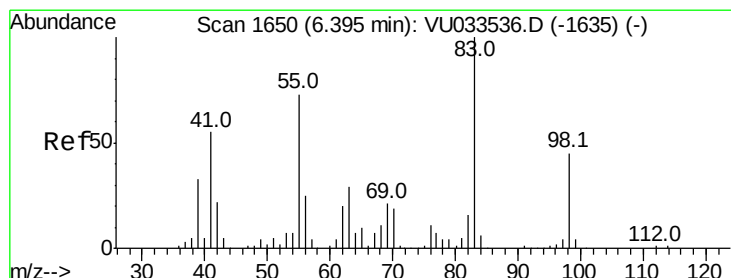
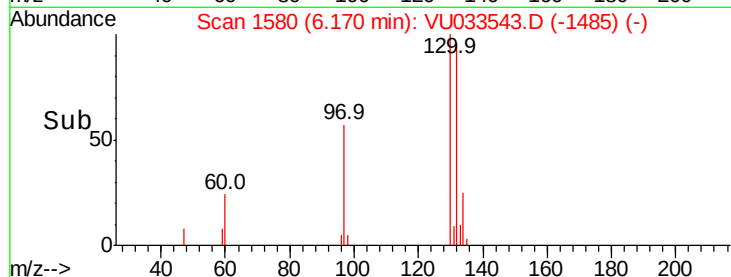
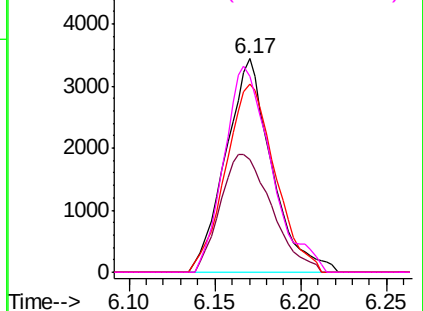
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 2.301 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

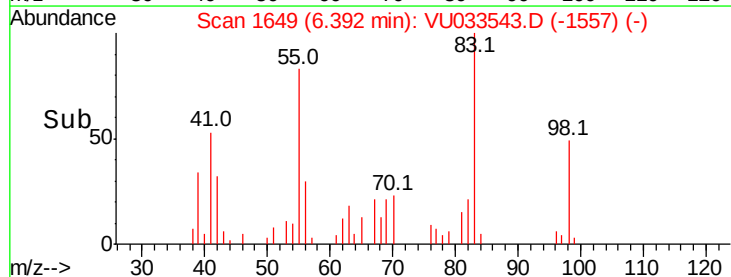
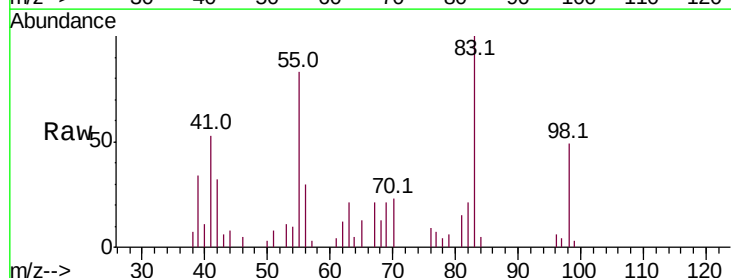
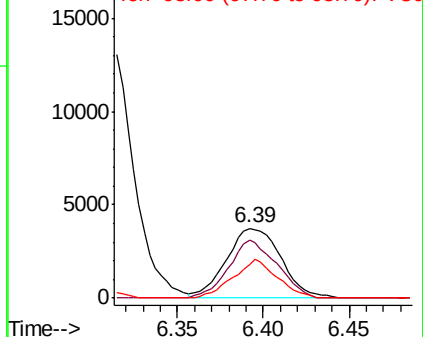
Tgt Ion:	83	Resp:	8242
Ion	Ratio	Lower	Upper
83	100		
55	73.4	60.2	90.4
98	45.1	36.5	54.7

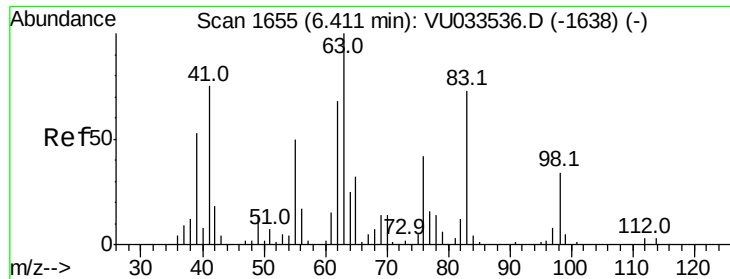
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





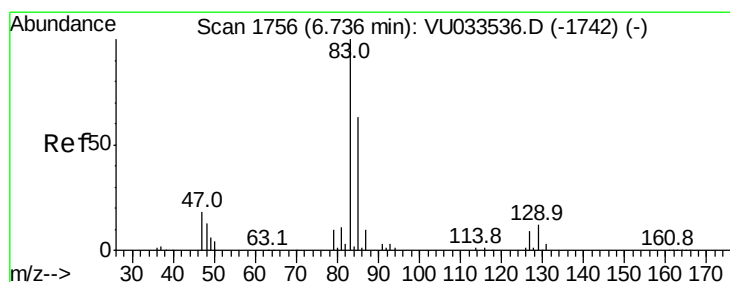
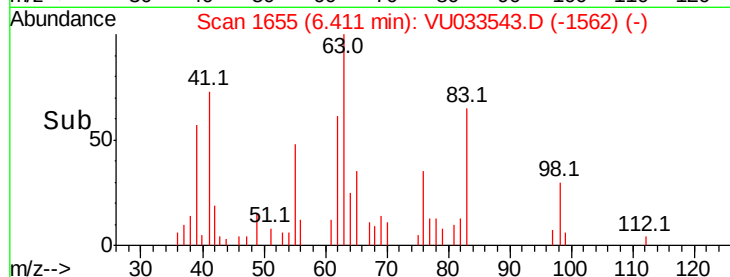
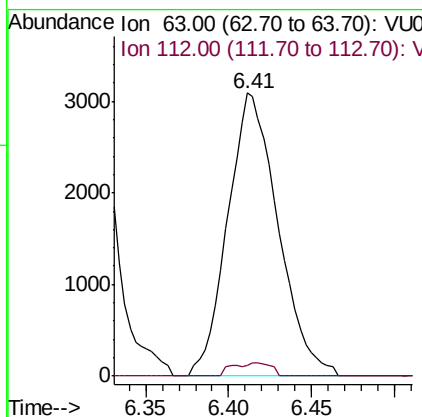
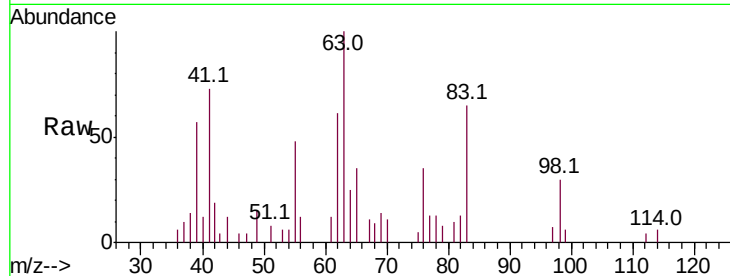
#37
 1,2-Dichloropropane
 Concen: 2.800 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion: 63 Resp: 6523
 Ion Ratio Lower Upper
 63 100
 112 2.2 3.0 4.6#

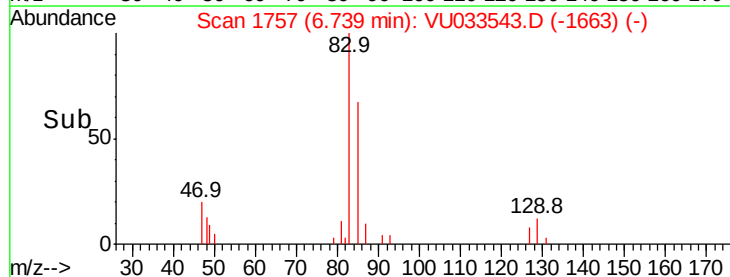
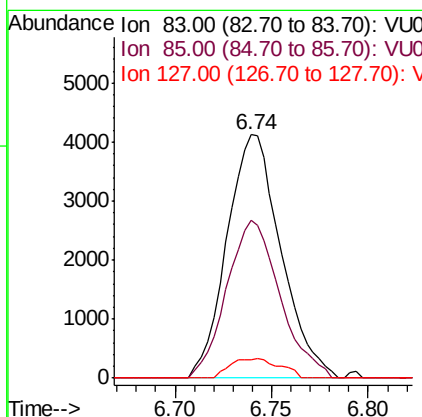
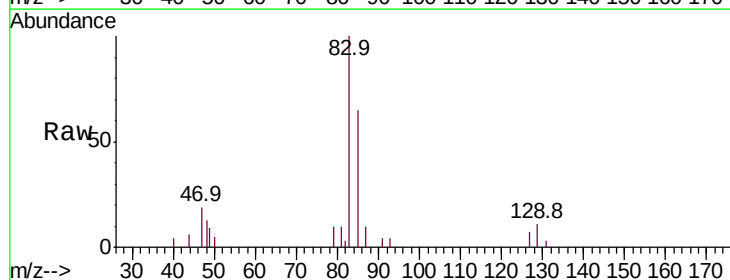
Manual Integrations
 APPROVED

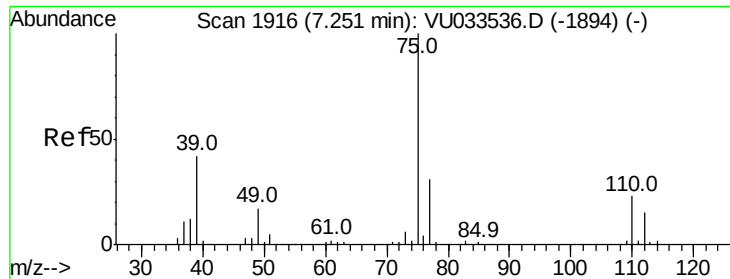
MMDadoda
 8/2/2019 8:29:33 AM



#38
 Bromodichloromethane
 Concen: 2.652 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Tgt Ion: 83 Resp: 7987
 Ion Ratio Lower Upper
 83 100
 85 64.9 45.1 83.9
 127 7.4 7.2 10.8





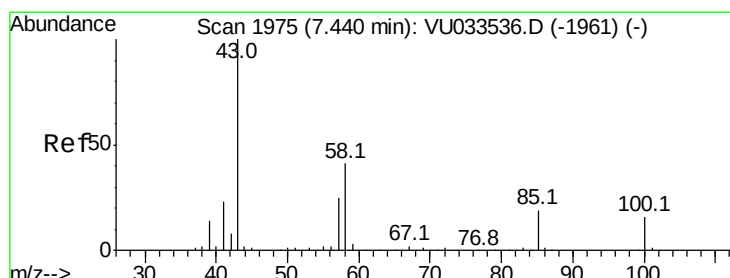
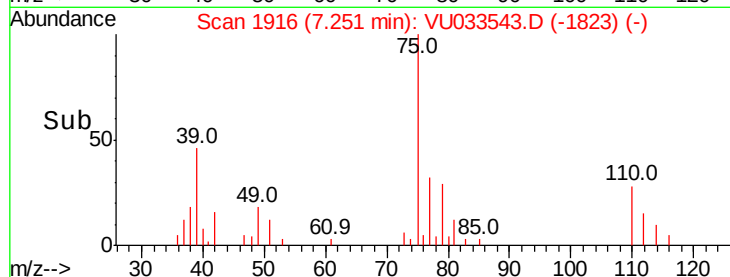
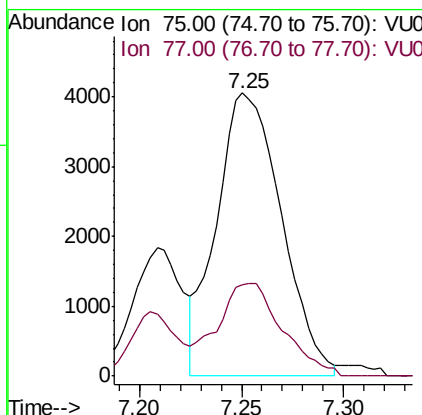
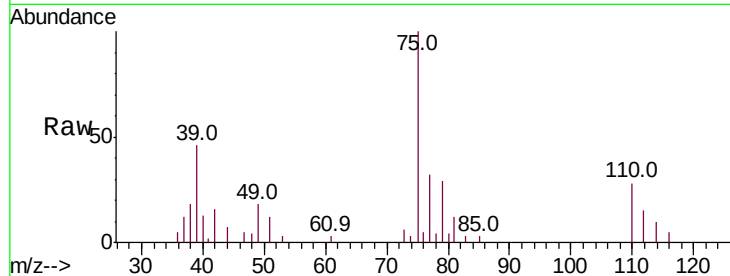
#39
 cis-1,3-Dichloropropene
 Concen: 2.464 ug/L m
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion: 75 Resp: 8959
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.3 41.5

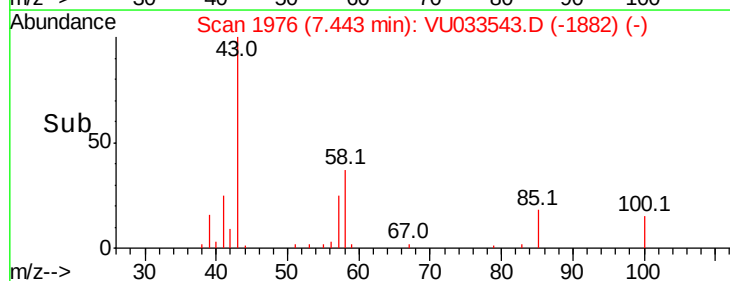
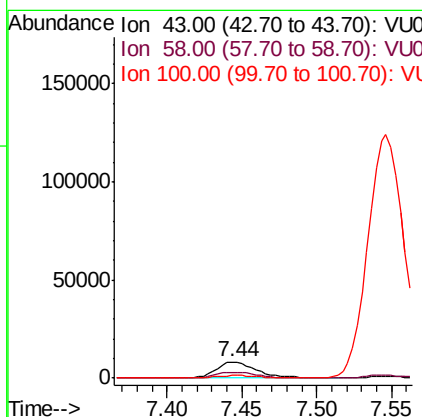
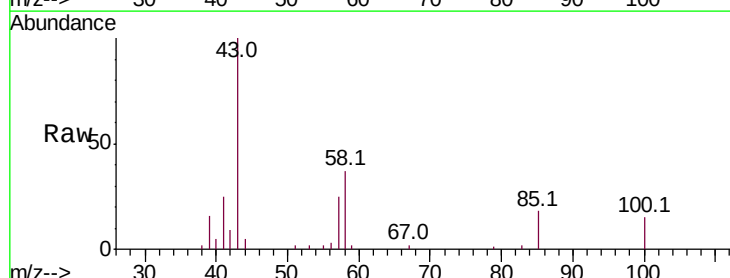
Manual Integrations
 APPROVED

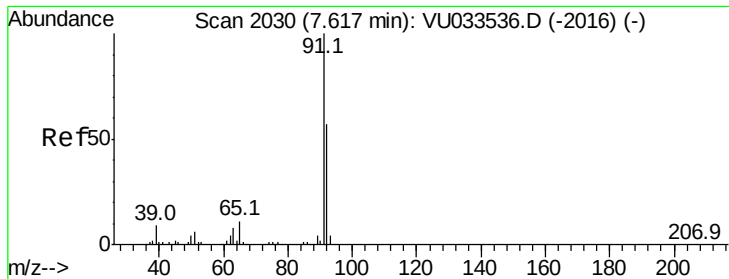
MMDadoda
 8/2/2019 8:29:33 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.853 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Tgt Ion: 43 Resp: 15609
 Ion Ratio Lower Upper
 43 100
 58 37.2 32.8 49.2
 100 15.6 12.9 19.3





#42

Toluene

Concen: 2.702 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 25282

Ion Ratio Lower Upper

91 100

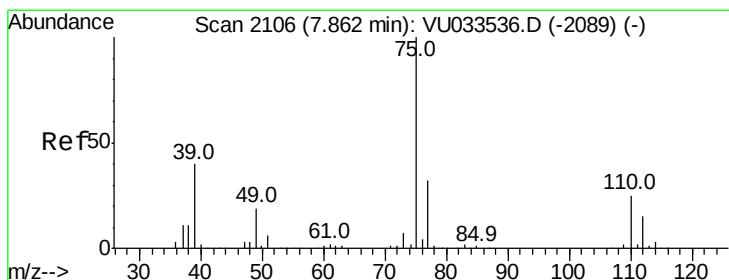
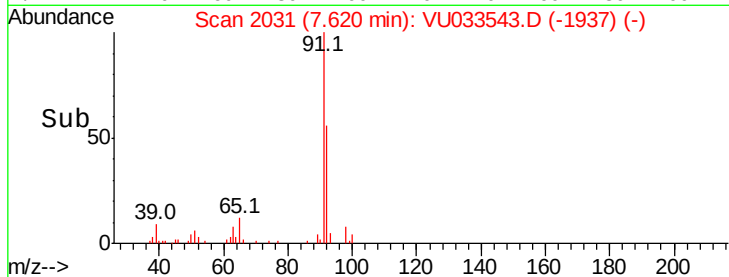
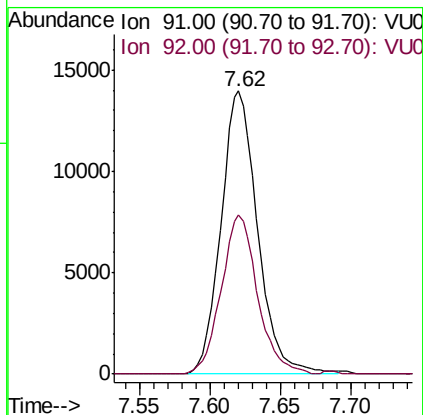
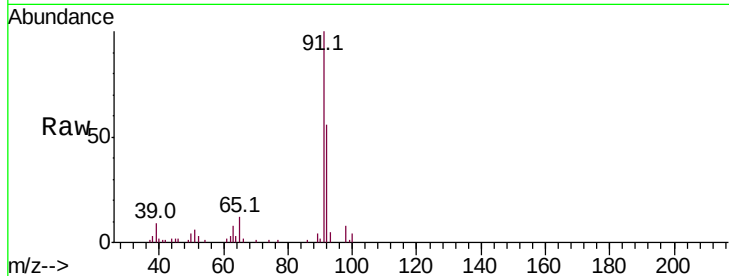
92 56.4 40.2 74.6

Manual Integrations

APPROVED

MMDadoda

8/2/2019 8:29:33 AM



#44

trans-1,3-Dichloropropene

Concen: 2.595 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033543.D

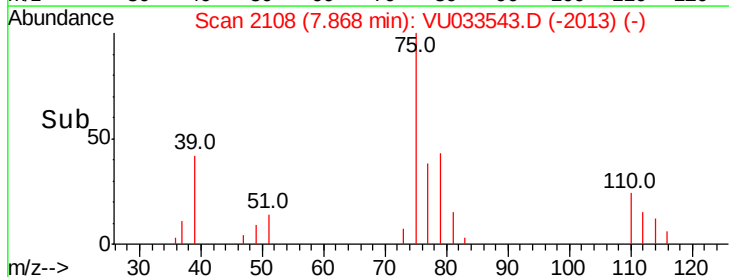
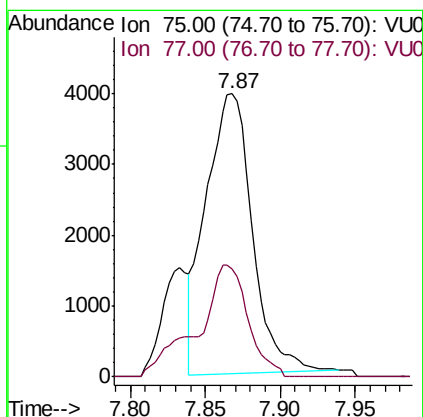
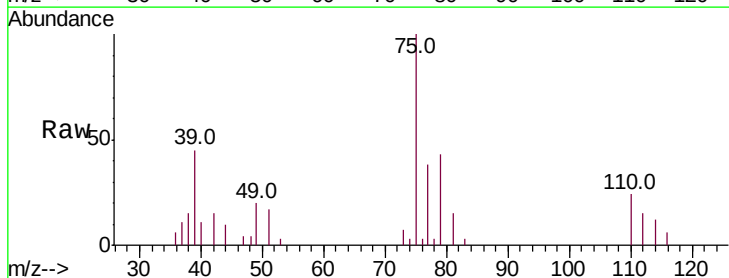
Acq: 01 Aug 2019 12:03

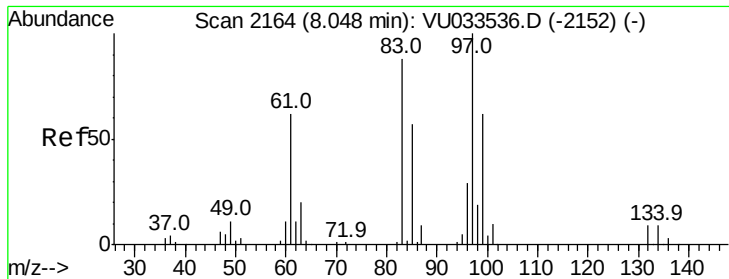
Tgt Ion: 75 Resp: 8525

Ion Ratio Lower Upper

75 100

77 38.3 22.7 42.1





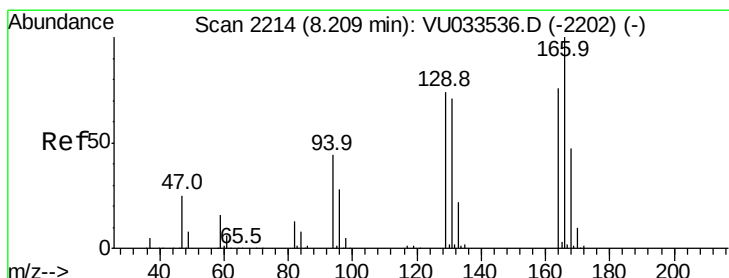
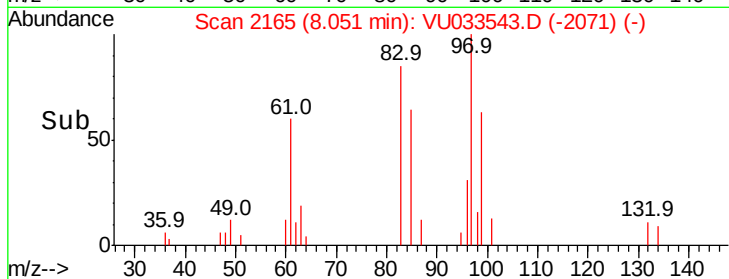
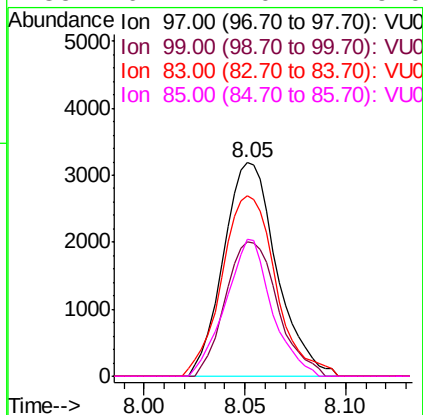
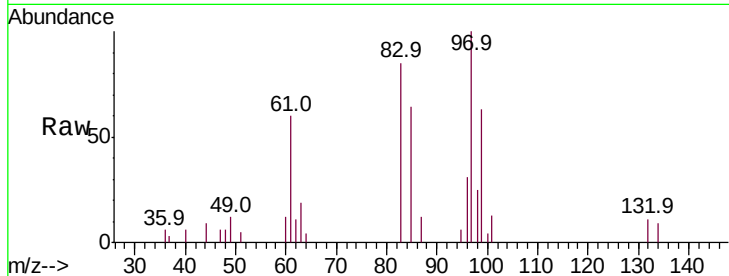
#45
1,1,2-Trichloroethane
Concen: 2.659 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	97	Resp:	5880
Ion	Ratio	Lower	Upper
97	100		
99	63.0	44.4	82.4
83	84.5	61.5	114.1
85	64.2	40.4	75.0

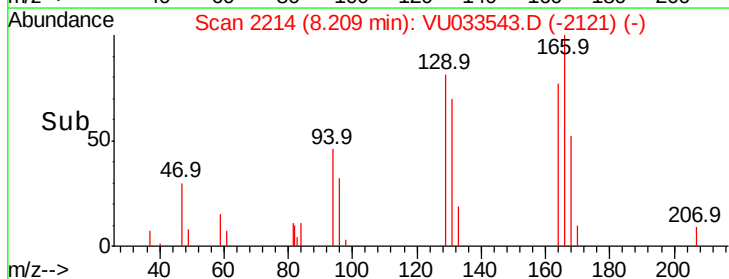
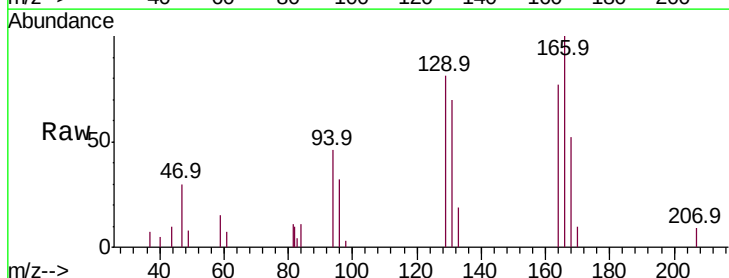
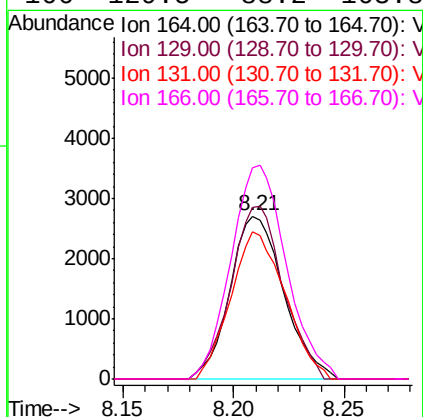
Manual Integrations
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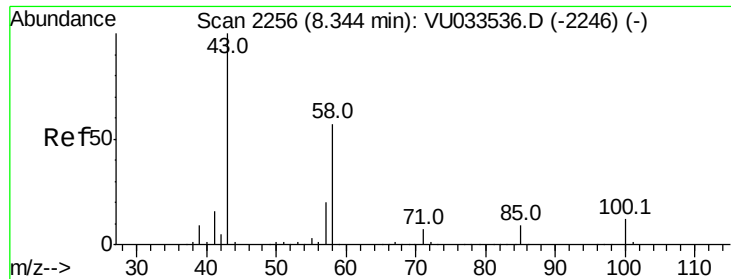
MMDadoda
8/2/2019 8:29:33 AM



#46
Tetrachloroethene
Concen: 2.449 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion	164	Resp:	4590
Ion	Ratio	Lower	Upper
164	100		
129	105.1	65.5	121.7
131	90.5	63.3	117.7
166	129.5	88.2	163.8





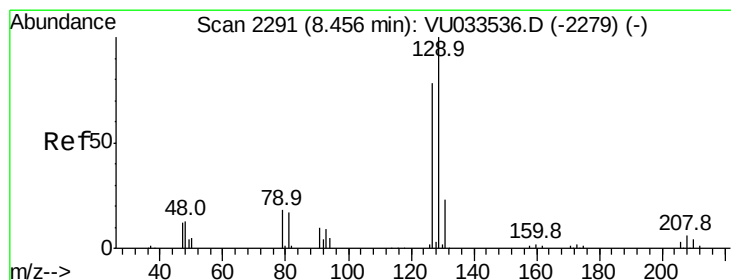
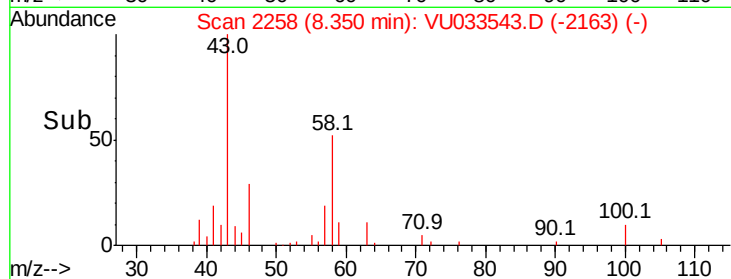
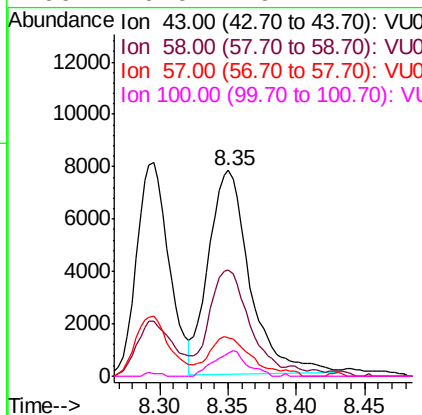
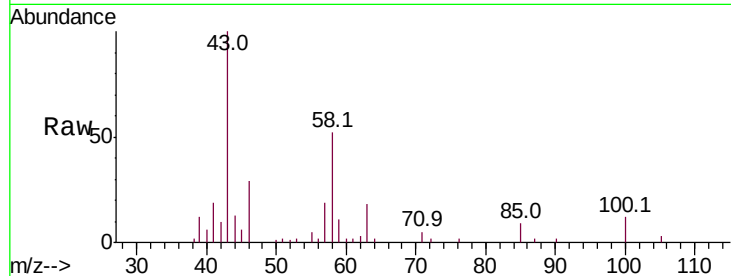
#48
2-Hexanone
Concen: 6.309 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.8	45.8	68.6
57	15.2	15.8	23.6
100	10.0	9.4	14.2

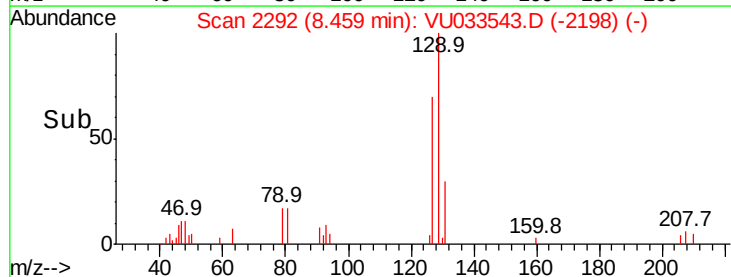
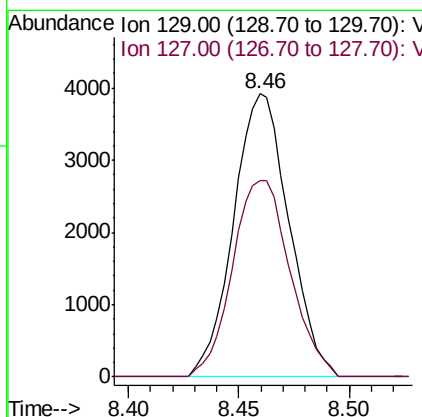
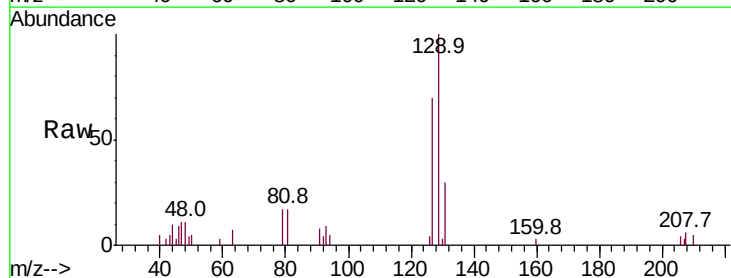
Manual Integrations
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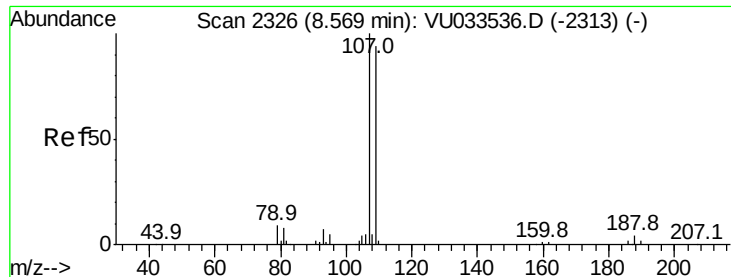
MMDadoda
8/2/2019 8:29:33 AM



#49
Dibromochloromethane
Concen: 2.712 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion	Ratio	Lower	Upper
129	100		
127	69.6	53.8	99.8





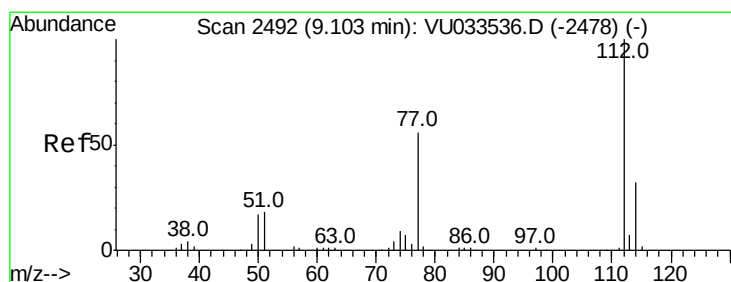
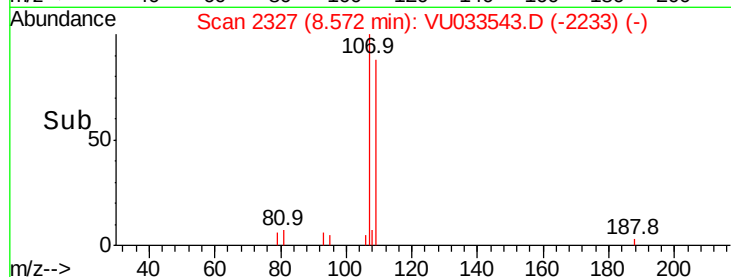
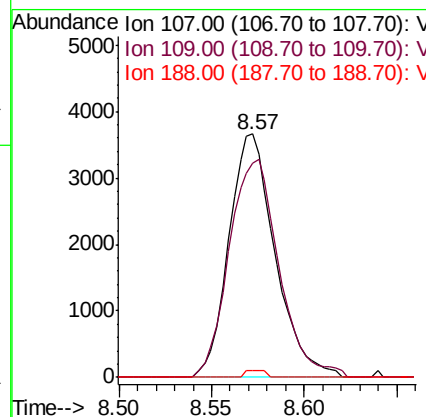
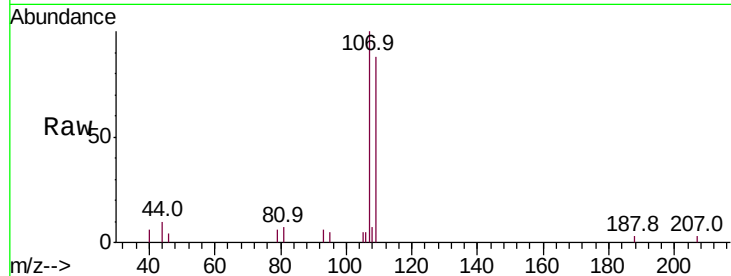
#50
1,2-Dibromoethane
Concen: 2.588 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	88.0	66.8	124.0	
188	2.8	3.0	4.4#	

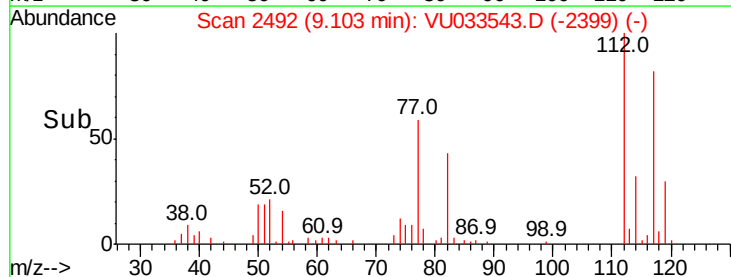
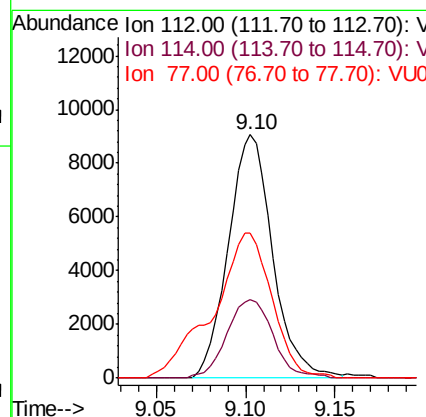
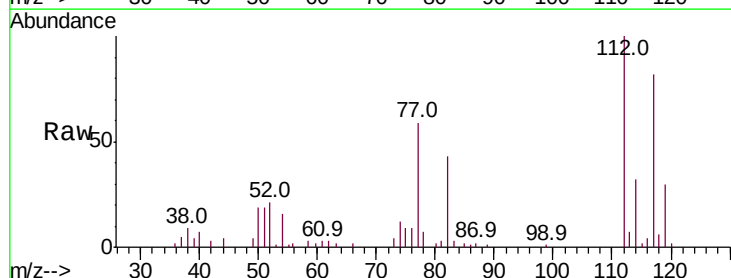
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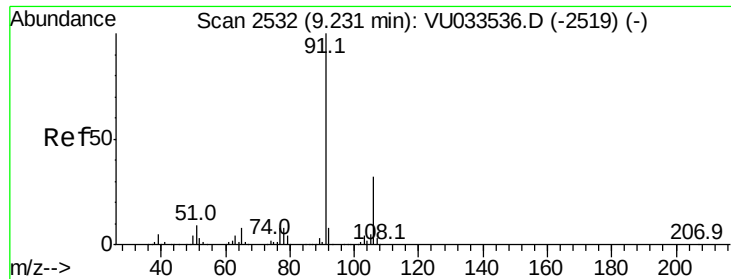
MMDadoda
8/2/2019 8:29:33 AM



#51
Chlorobenzene
Concen: 2.559 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	32.2	22.3	41.5	
77	59.4	45.6	68.4	





#52

Ethylbenzene

Concen: 2.309 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 23261

Ion Ratio Lower Upper

91 100

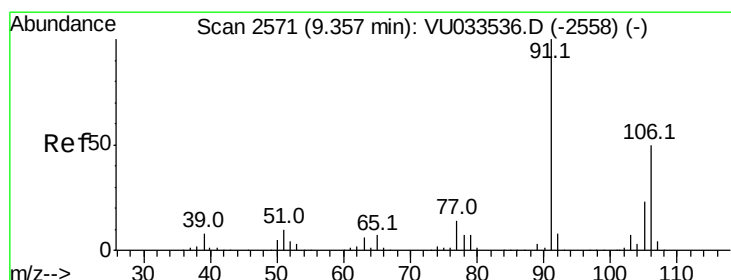
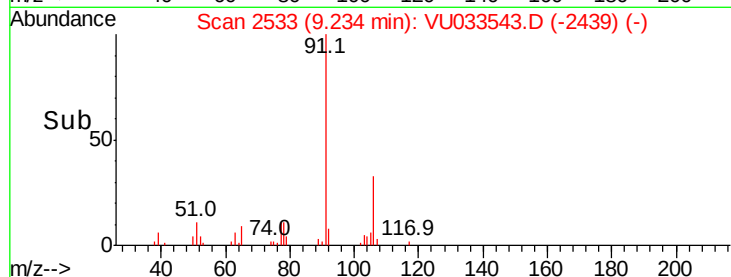
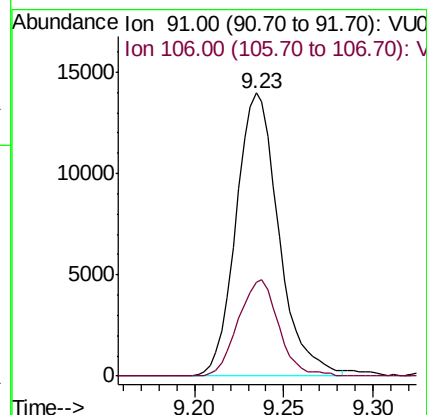
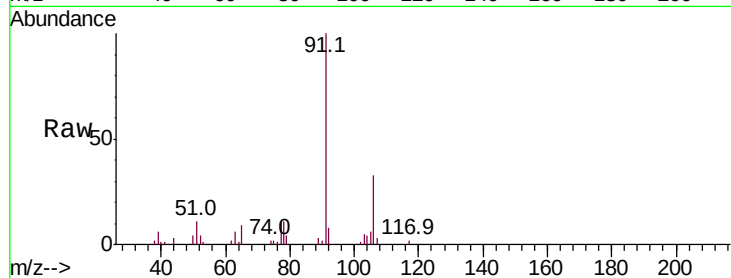
106 33.2 22.2 41.2

Manual Integrations

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#53

m,p-Xylene

Concen: 2.254 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033543.D

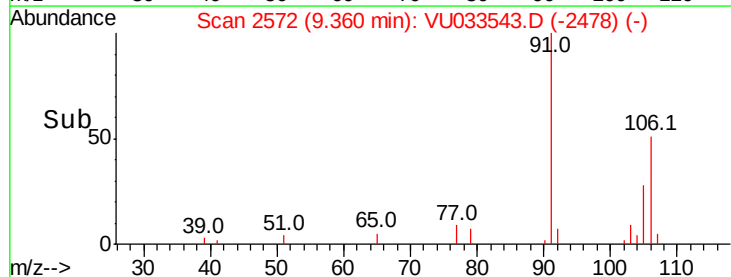
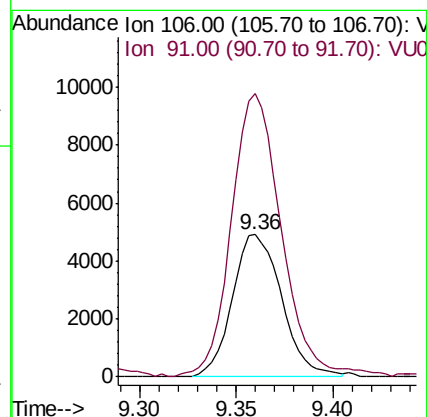
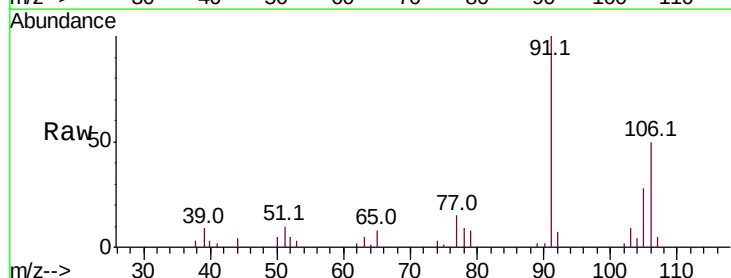
Acq: 01 Aug 2019 12:03

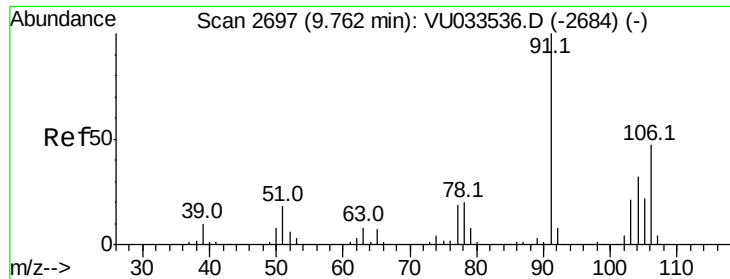
Tgt Ion: 106 Resp: 8720

Ion Ratio Lower Upper

106 100

91 199.0 143.0 265.6





#54

o-xylene

Concen: 2.302 ug/L

RT: 9.76 min Scan# 2698

Delta R.T. 0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion:106 Resp: 8637

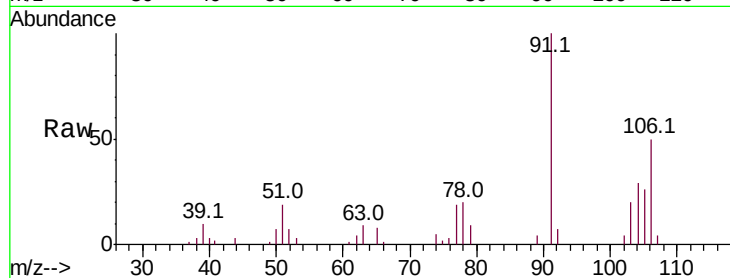
Ion Ratio Lower Upper

106 100

91 198.2 148.4 275.6

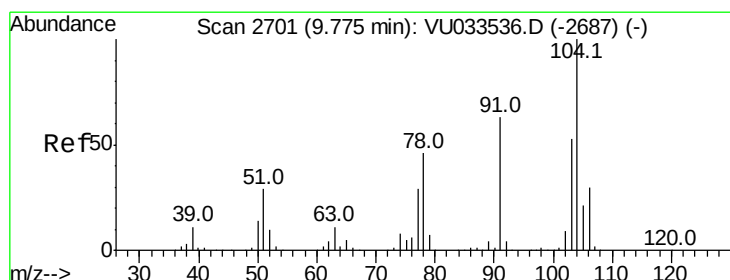
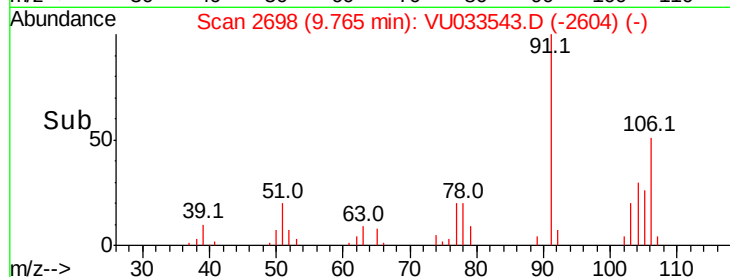
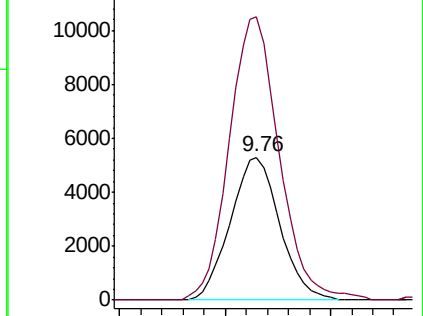
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8/2/2019 8:29:33 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.038 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033543.D

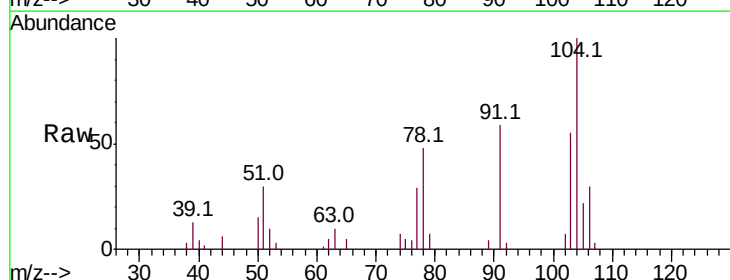
Acq: 01 Aug 2019 12:03

Tgt Ion:104 Resp: 12986

Ion Ratio Lower Upper

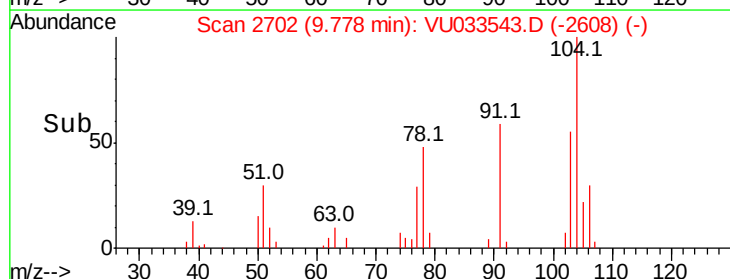
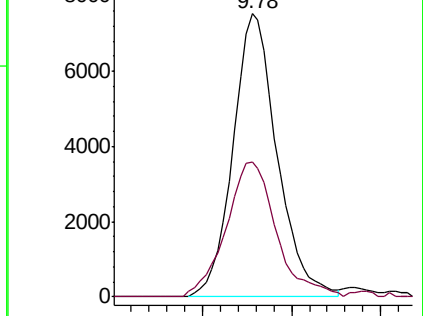
104 100

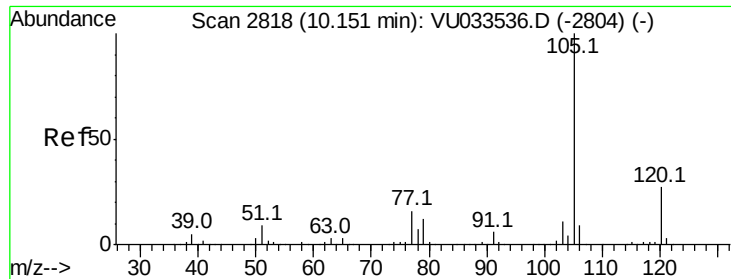
78 47.9 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





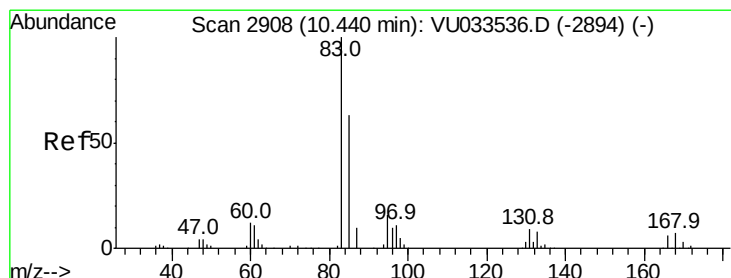
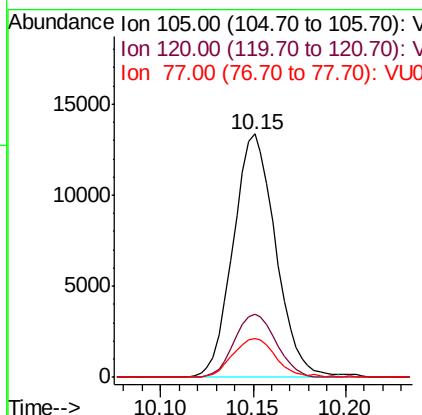
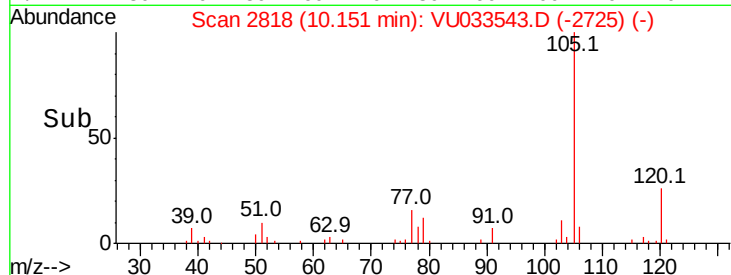
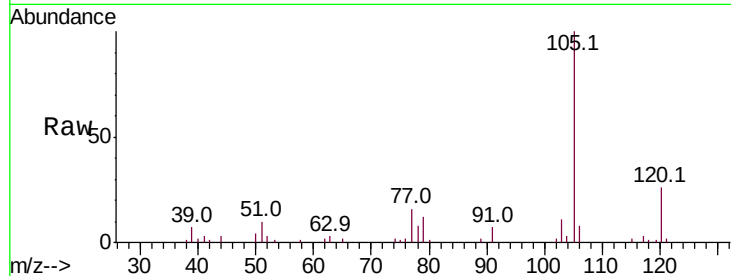
#56
Isopropylbenzene
Concen: 2.169 ug/L
RT: 10.15 min Scan# 2818
Delta R.T. -0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion:	105	Resp:	21267
Ion Ratio	Lower	Upper	
105	100		
120	25.6	21.4	32.0
77	15.9	12.5	18.7

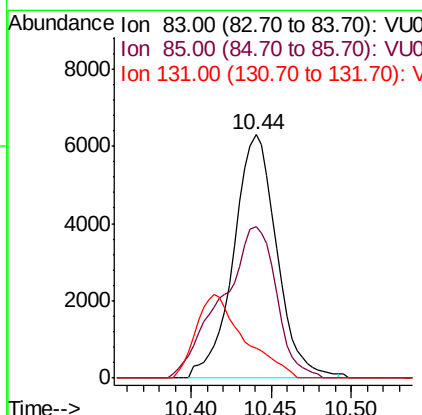
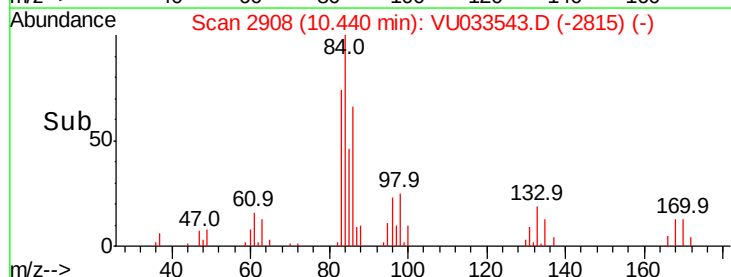
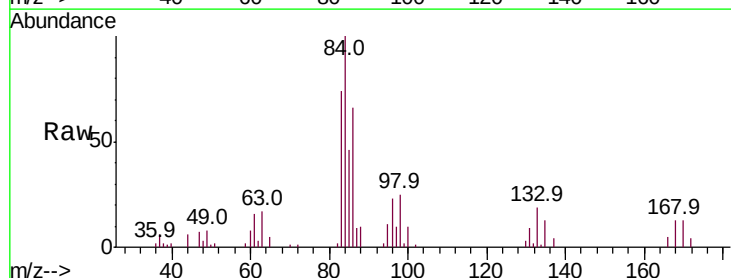
Manual Integrations
APPROVED

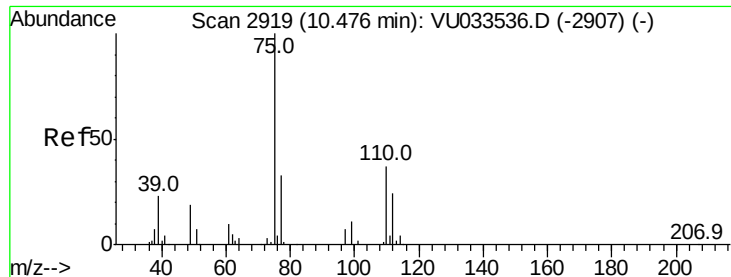
MMDadoda
8/2/2019 8:29:33 AM



#58
1,1,2,2-Tetrachloroethane
Concen: 2.908 ug/L
RT: 10.44 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion:	83	Resp:	11599
Ion Ratio	Lower	Upper	
83	100		
85	62.0	45.4	84.4
131	12.3	7.9	11.9#





#59

1,2,3-Trichloropropane

Concen: 2.784 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 75 Resp: 8561

Ion Ratio Lower Upper

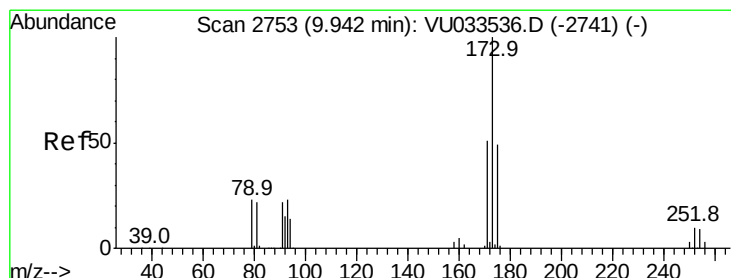
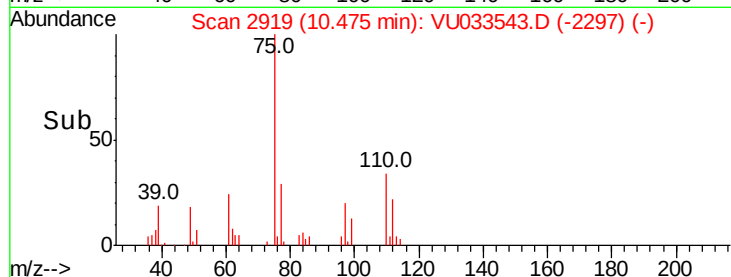
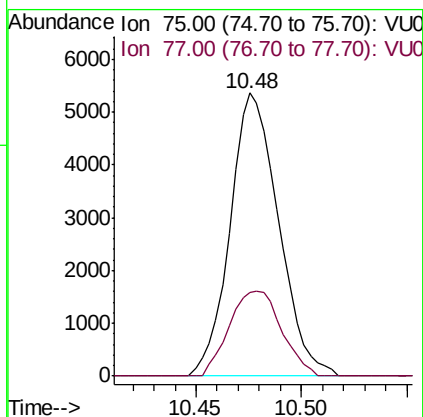
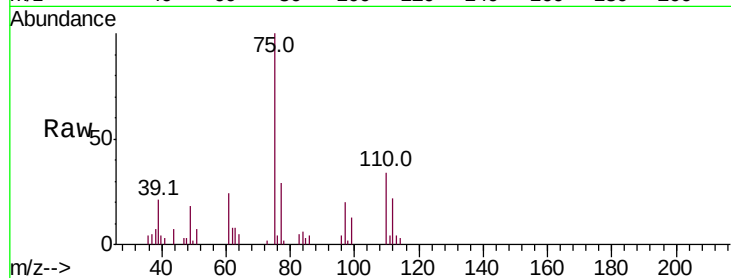
75 100

77 32.2 25.8 38.6

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#61

Bromoform

Concen: 2.711 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

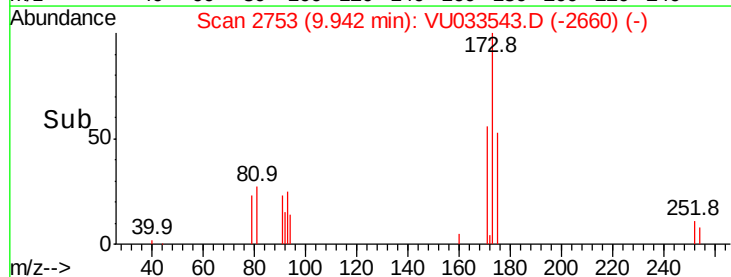
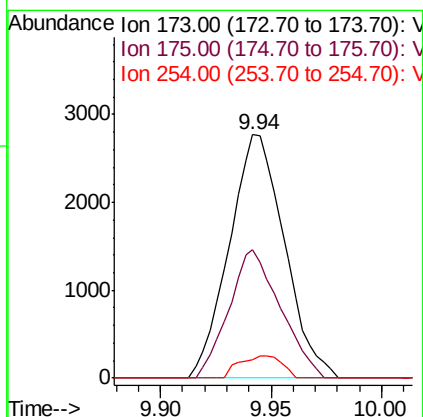
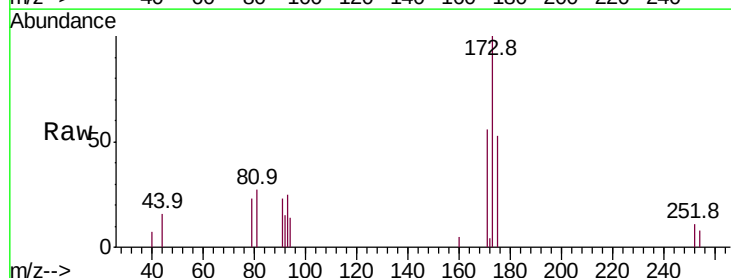
Tgt Ion: 173 Resp: 4816

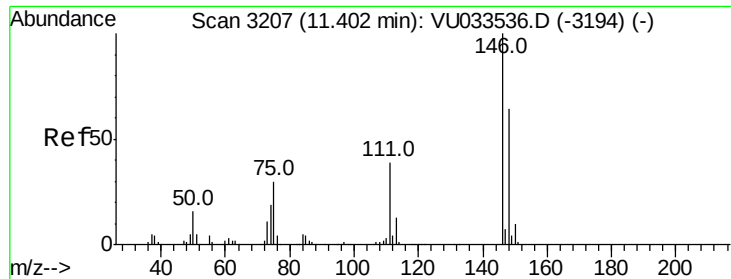
Ion Ratio Lower Upper

173 100

175 49.1 38.7 58.1

254 7.1 7.5 11.3#





#62

1,3-Dichlorobenzene

Concen: 2.534 ug/L

RT: 11.40 min Scan# 3208

Delta R.T. 0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Instrument :

MSVOA_U

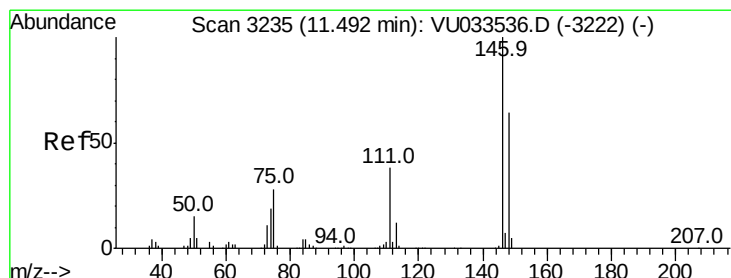
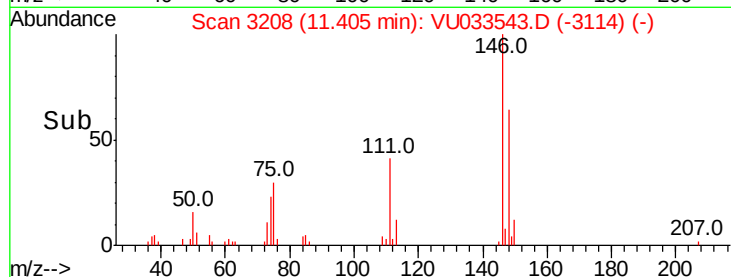
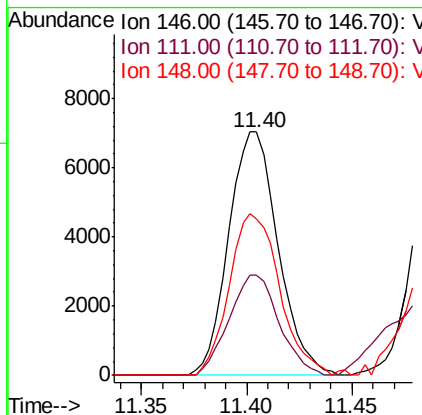
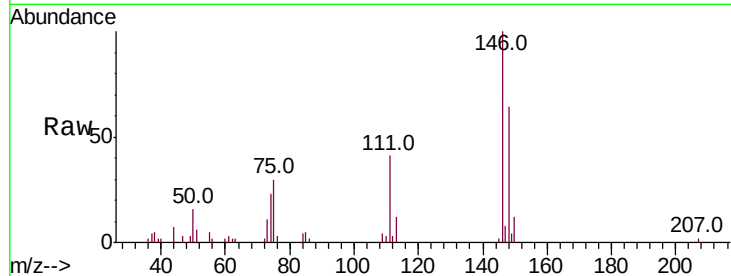
ClientSampled :

MDL06

Tot Ion:	146	Resp:	11445
Ion Ratio	Lower	Upper	
146	100		
111	41.3	28.1	52.1
148	64.3	45.0	83.6

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#63

1,4-Dichlorobenzene

Concen: 2.767 ug/L

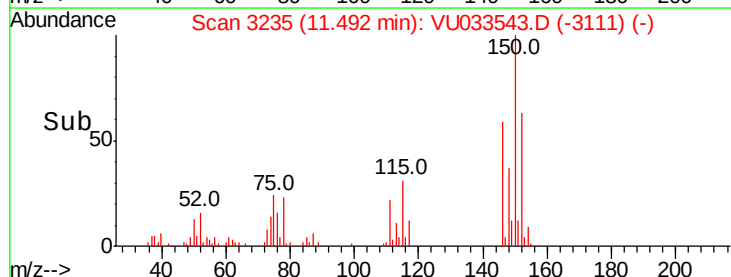
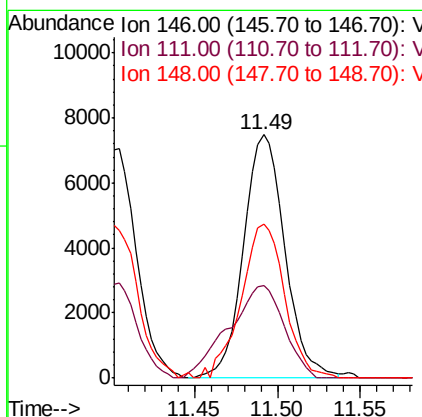
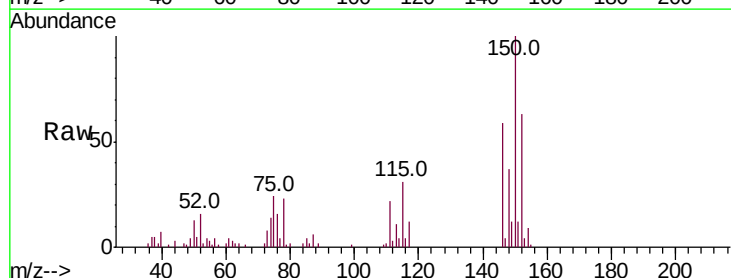
RT: 11.49 min Scan# 3235

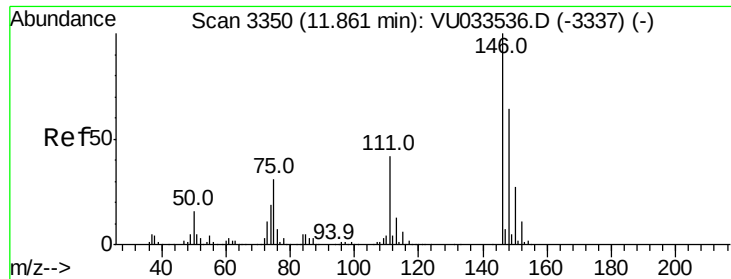
Delta R.T. -0.00 min

Lab File: VU033543.D

Acq: 01 Aug 2019 12:03

Tgt Ion:	146	Resp:	12984
Ion Ratio	Lower	Upper	
146	100		
111	38.1	27.2	50.4
148	63.4	44.5	82.7





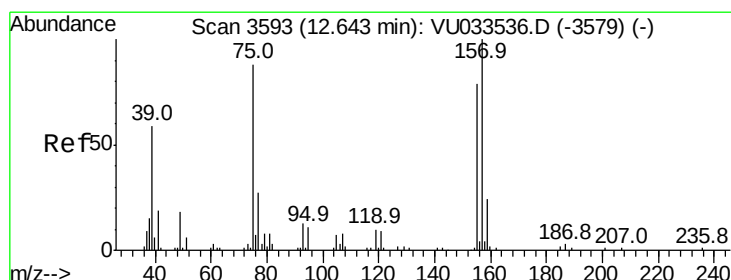
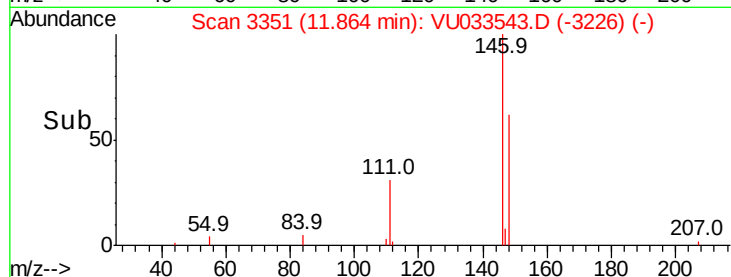
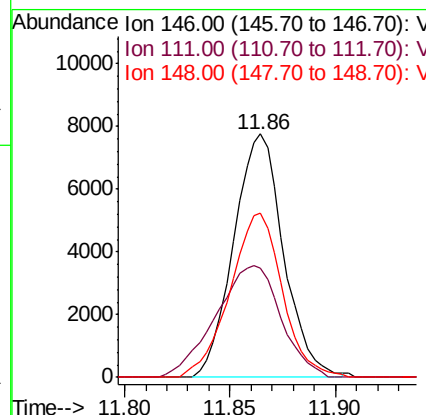
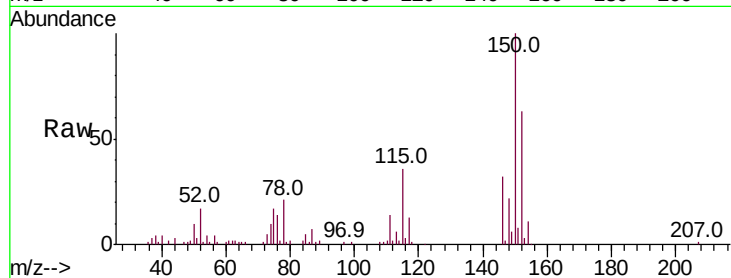
#65
 1,2-Dichlorobenzene
 Concen: 2.790 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	31.7	47.5
148	67.2	50.3	75.5

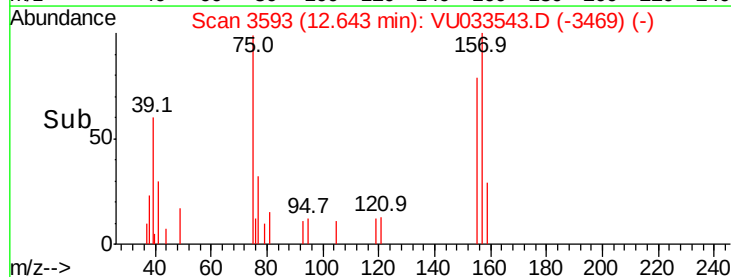
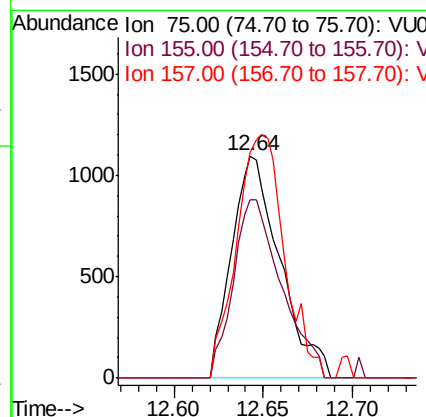
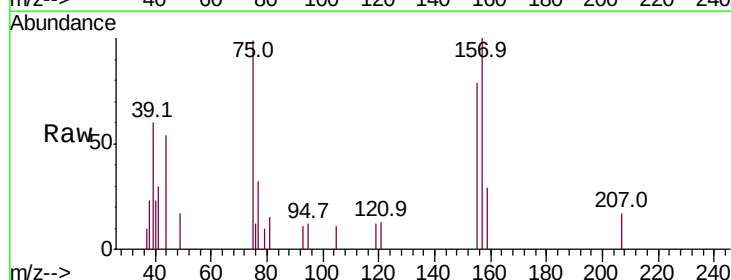
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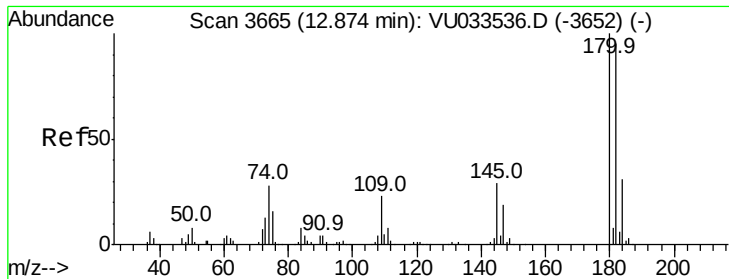
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.446 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.00 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.2	69.4	104.0
157	101.3	91.8	137.8





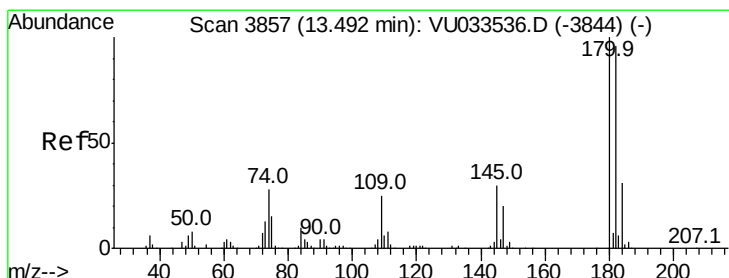
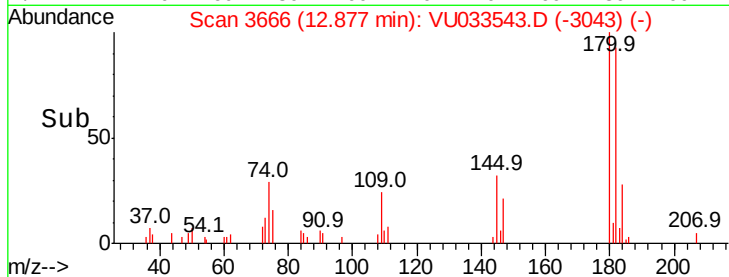
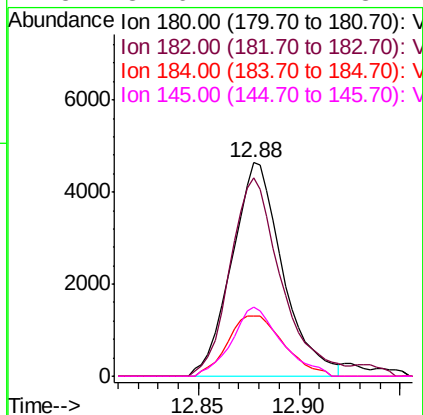
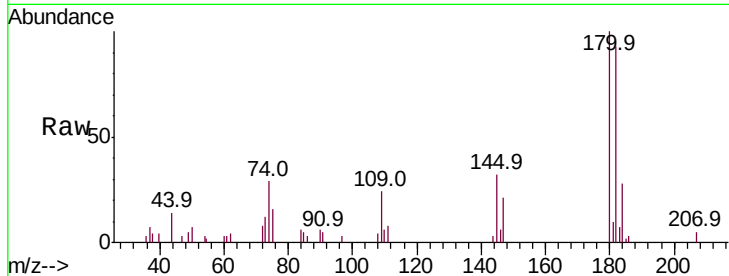
#67
 1,3,5-Trichlorobenzene
 Concen: 2.244 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion:	180	Resp:	8176
Ion Ratio	Lower	Upper	
180	100		
182	93.8	75.6	113.4
184	31.3	24.2	36.2
145	31.6	22.7	34.1

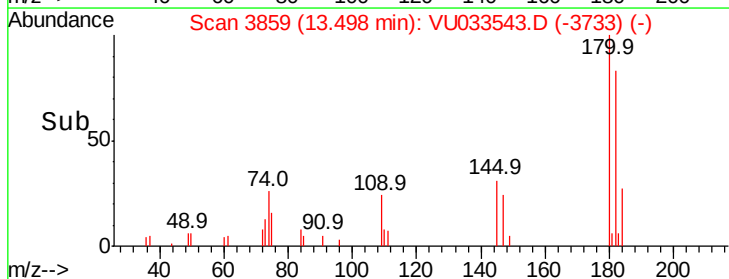
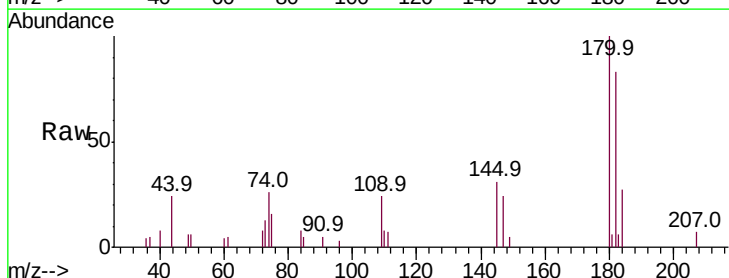
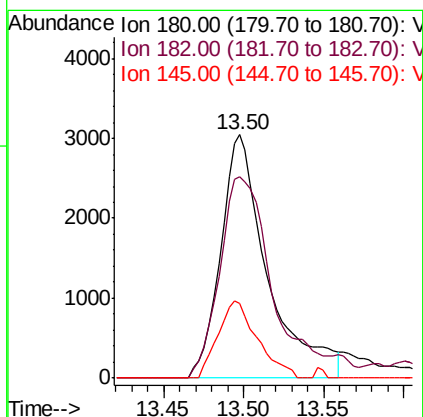
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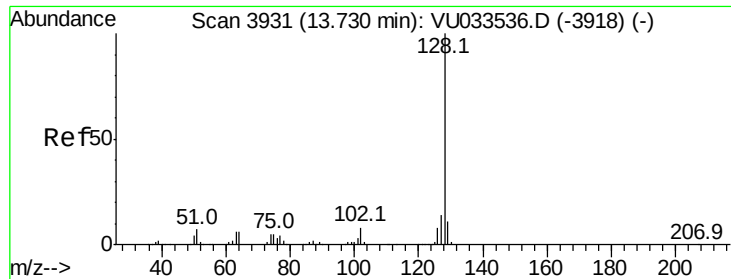
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#68
 1,2,4-trichlorobenzene
 Concen: 1.972 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033543.D
 Acq: 01 Aug 2019 12:03

Tgt Ion:	180	Resp:	6139
Ion Ratio	Lower	Upper	
180	100		
182	91.6	75.8	113.8
145	26.6	24.3	36.5





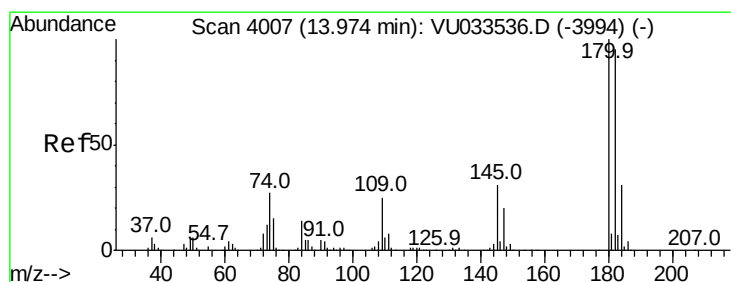
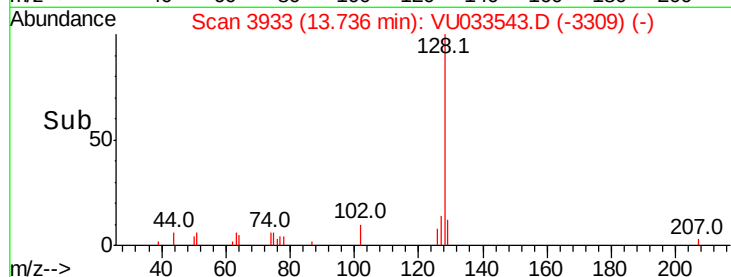
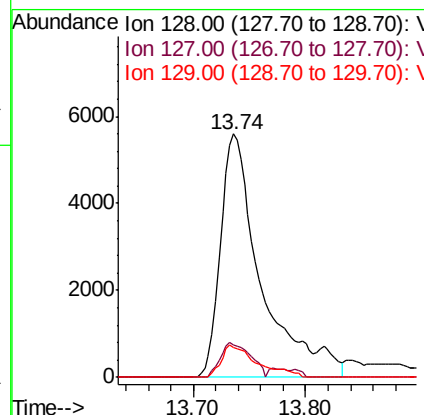
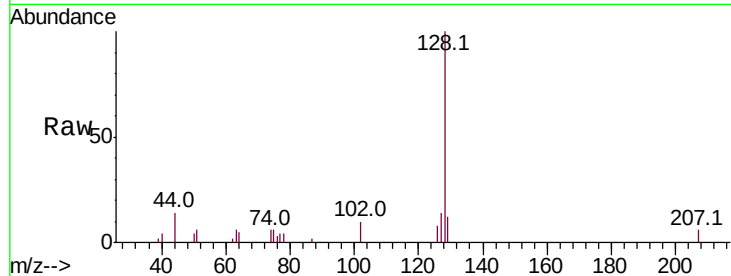
#69
Naphthalene
Concen: 1.581 ug/L m
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.5	10.8	16.2#
129	10.2	8.7	13.1

Manual Integrations
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#70
1,2,3-Trichlorobenzene
Concen: 1.982 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033543.D
Acq: 01 Aug 2019 12:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	75.5	113.3
145	26.7	24.4	36.6

