

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081319\
 Data File : VU033786.D
 Acq On : 13 Aug 2019 17:09
 Operator : JC/SP
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 10:44:48 AM

Quant Time: Aug 14 04:42:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	388814	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	385884	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	183051	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	179056	48.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.98%
7) Chloroethane-d5	1.67	69	169550	49.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.26	63	233836	38.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.54%
21) 2-Butanone-d5	4.16	46	219589	106.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.89%
24) Chloroform-d	4.62	84	283618	49.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.36%
26) 1,2-Dichloroethane-d4	5.29	65	187723	52.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.16%
32) Benzene-d6	5.32	84	580130	52.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.96%
36) 1,2-Dichloropropane-d6	6.31	67	186758	52.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.56%
41) Toluene-d8	7.55	98	520255	50.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.94%
43) trans-1,3-Dichloropropene-	7.83	79	85895	50.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.76%
47) 2-Hexanone-d5	8.30	63	149387	104.50	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.50%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	252830	49.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.18%
66) 1,2-Dichlorobenzene-d4	11.84	152	201573	54.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.02%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	11489	2.964 ug/L	99
3) Chloromethane	1.32	50	12066	2.998 ug/L	97
5) Vinyl chloride	1.39	62	13640	3.130 ug/L #	71
6) Bromomethane	1.62	94	8618	2.694 ug/L	93
8) Chloroethane	1.69	64	8967	2.879 ug/L	99
9) Trichlorofluoromethane	1.87	101	16525	2.951 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	10306	3.761 ug/L #	84
12) 1,1-Dichloroethene	2.27	96	9608	3.563 ug/L #	1
13) Acetone	2.32	43	11444	6.116 ug/L	97
14) Carbon disulfide	2.46	76	26035	3.050 ug/L	100
15) Methyl Acetate	2.61	43	8956	2.863 ug/L	98
16) Methylene chloride	2.68	84	9726	3.160 ug/L	91
17) trans-1,2-Dichloroethene	2.96	96	8829	3.146 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	24320	2.916 ug/L #	92
19) 1,1-Dichloroethane	3.42	63	16408	3.043 ug/L	97
20) cis-1,2-Dichloroethene	4.20	96	8994	2.919 ug/L	90
22) 2-Butanone	4.25	43	11483m	5.052 ug/L	

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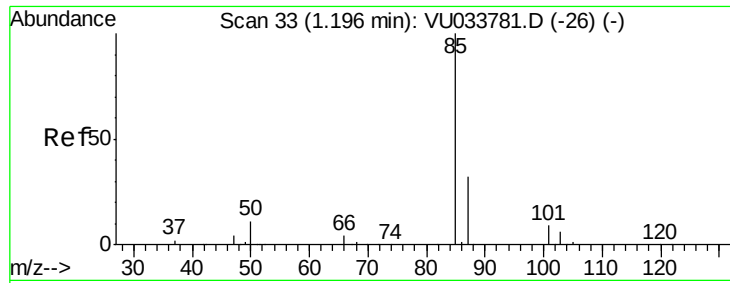
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	4952	3.102	ug/L	92
25) Chloroform	4.65	83	18772	3.350	ug/L	93
27) 1,2-Dichloroethane	5.39	62	12889	2.961	ug/L	95
29) Cyclohexane	4.97	56	11647	2.746	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	14154	2.990	ug/L	98
31) Carbon tetrachloride	5.11	117	12721	3.026	ug/L	98
33) Benzene	5.37	78	34775	2.946	ug/L	100
34) Trichloroethene	6.17	95	9372	2.996	ug/L	93
35) Methylcyclohexane	6.40	83	12872	2.824	ug/L	98
37) 1,2-Dichloropropane	6.41	63	10057	3.126	ug/L	100
38) Bromodichloromethane	6.74	83	12277	2.958	ug/L	91
39) cis-1,3-Dichloropropene	7.25	75	13806	2.907	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	21543	5.382	ug/L	99
42) Toluene	7.62	91	36592	2.935	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	12793	2.958	ug/L	97
45) 1,1,2-Trichloroethane	8.05	97	9269	3.053	ug/L	96
46) Tetrachloroethene	8.21	164	7049	2.874	ug/L	96
48) 2-Hexanone	8.35	43	23081	7.534	ug/L	98
49) Dibromochloromethane	8.46	129	9986	2.946	ug/L	93
50) 1,2-Dibromoethane	8.57	107	9379	2.945	ug/L	99
51) Chlorobenzene	9.10	112	24300	2.995	ug/L	97
52) Ethylbenzene	9.23	91	36519	2.783	ug/L	99
53) m,p-Xylene	9.36	106	12294	2.507	ug/L	87
54) o-xylene	9.76	106	12248	2.538	ug/L	96
55) Styrene	9.78	104	19269	2.353	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.44	83	15207	2.995	ug/L #	95
59) Bromoform	9.94	173	7179	3.070	ug/L	93
60) 1,2,3-Trichloropropane	10.48	75	12414	3.370	ug/L	96
61) Isopropylbenzene	10.15	105	31329	2.765	ug/L	99
62) 1,3,5-Trimethylbenzene	10.76	105	23431	2.561	ug/L	97
63) 1,2,4-Trimethylbenzene	11.13	105	22020	2.426	ug/L	95
64) 1,3-Dichlorobenzene	11.40	146	17547	3.086	ug/L	96
65) 1,4-Dichlorobenzene	11.49	146	19120	3.281	ug/L	96
67) 1,2-Dichlorobenzene	11.86	146	19463	3.369	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.65	75	2962	2.884	ug/L	89
69) 1,3,5-Trichlorobenzene	12.88	180	11552	2.690	ug/L	99
70) 1,2,4-trichlorobenzene	13.50	180	8049	2.260	ug/L	95
71) Naphthalene	13.74	128	19013	1.793	ug/L	96
72) 1,2,3-Trichlorobenzene	13.98	180	9265	2.482	ug/L	91

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



#2

Dichlorodifluoromethane

Concen: 2.964 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 85 Resp: 11489

Ion Ratio Lower Upper

85 100

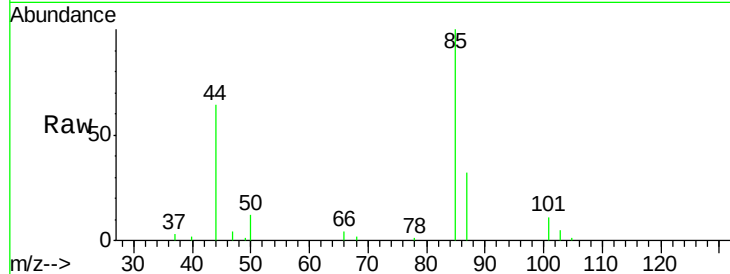
87 33.6 26.4 39.6

Manual Integrations

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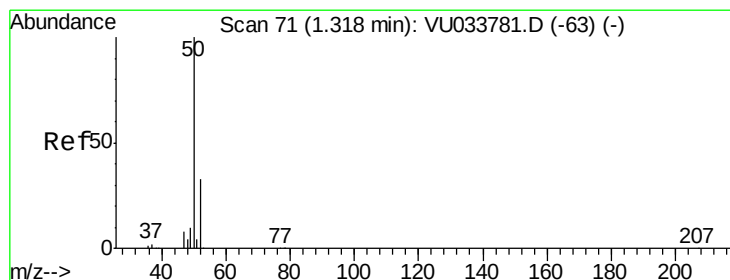
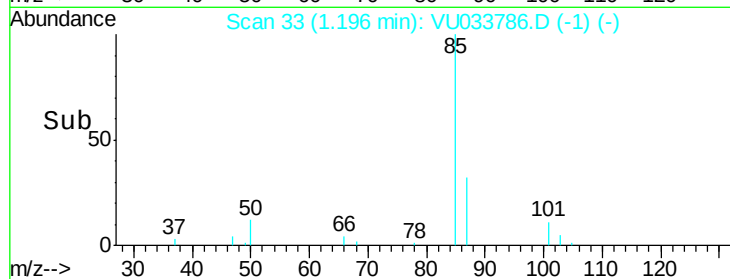
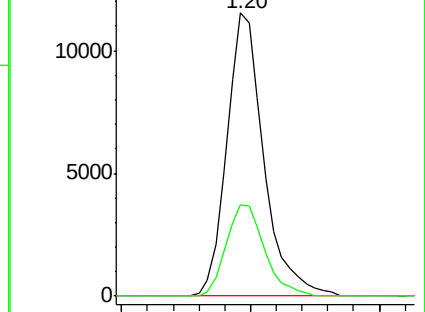
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Abundance Ion 85.00 (84.70 to 85.70): VU033786.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033786.D (-26) (-)



#3

Chloromethane

Concen: 2.998 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033786.D

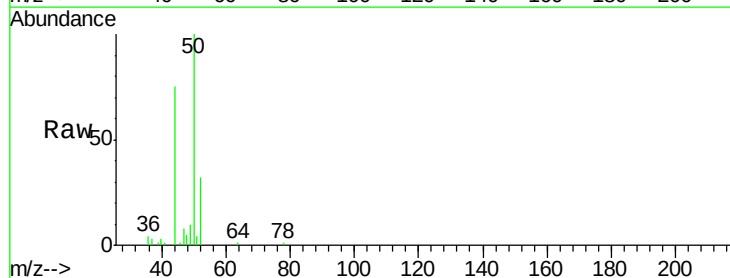
Acq: 13 Aug 2019 17:09

Tgt Ion: 50 Resp: 12066

Ion Ratio Lower Upper

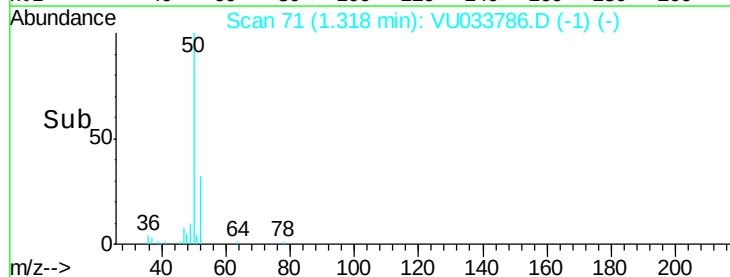
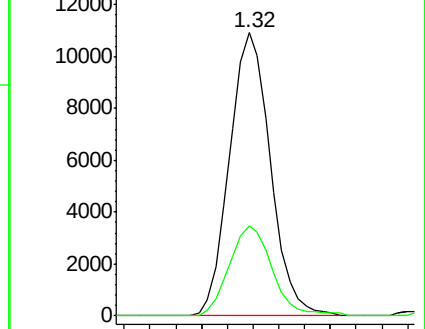
50 100

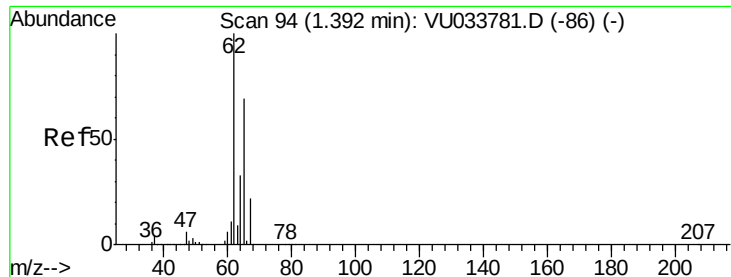
52 31.8 23.5 43.7



Abundance Ion 50.00 (49.70 to 50.70): VU033786.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033786.D (-63) (-)





#5

Vinyl chloride

Concen: 3.130 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 62 Resp: 13640

Ion Ratio Lower Upper

62 100

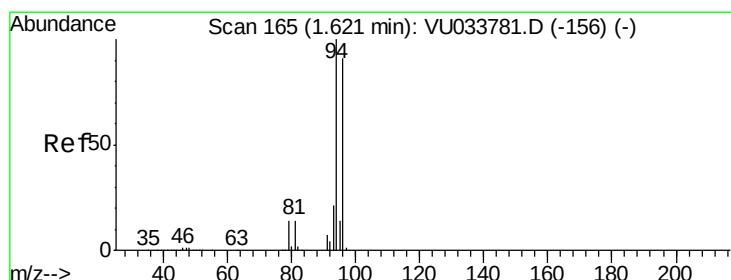
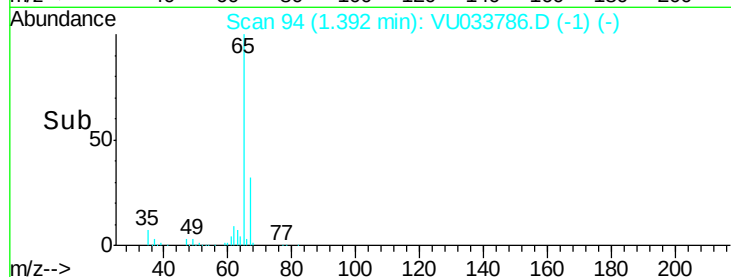
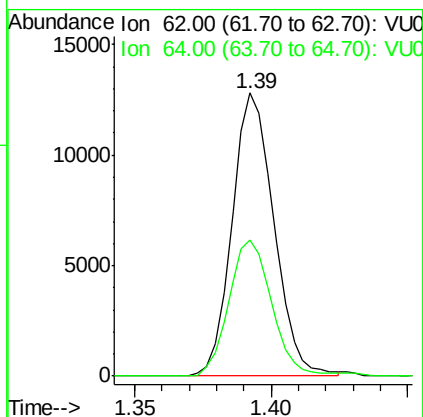
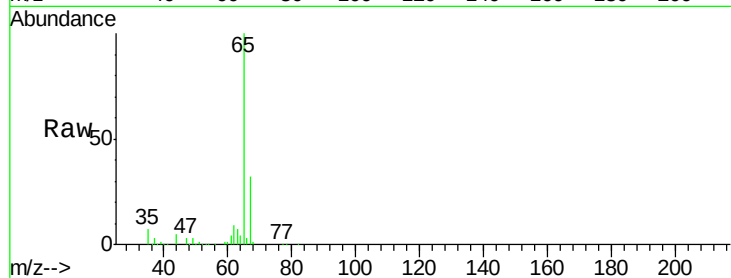
64 48.3 22.3 41.5#

Manual Integrations

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#6

Bromomethane

Concen: 2.694 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033786.D

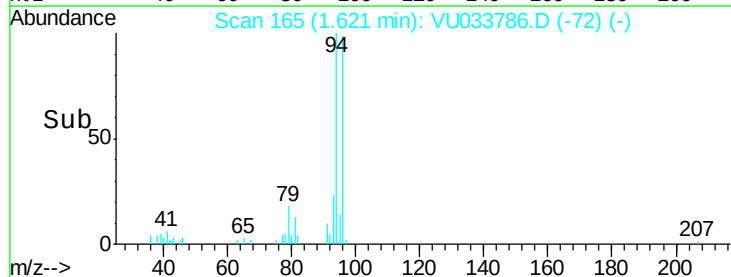
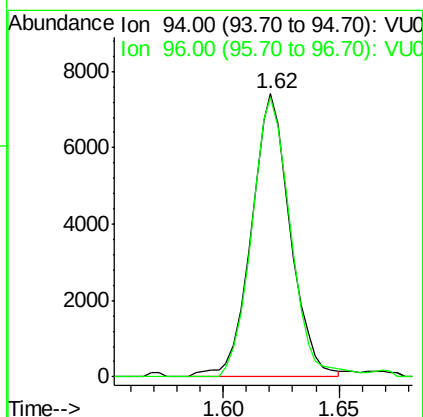
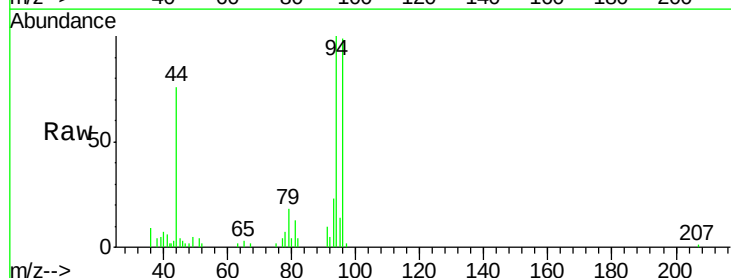
Acq: 13 Aug 2019 17:09

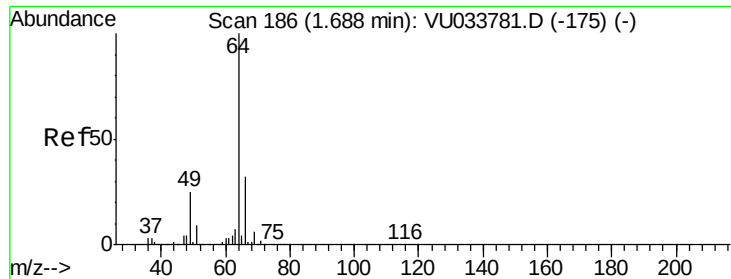
Tgt Ion: 94 Resp: 8618

Ion Ratio Lower Upper

94 100

96 98.7 64.5 119.7





#8

Chloroethane

Concen: 2.879 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 64 Resp: 8967

Ion Ratio Lower Upper

64 100

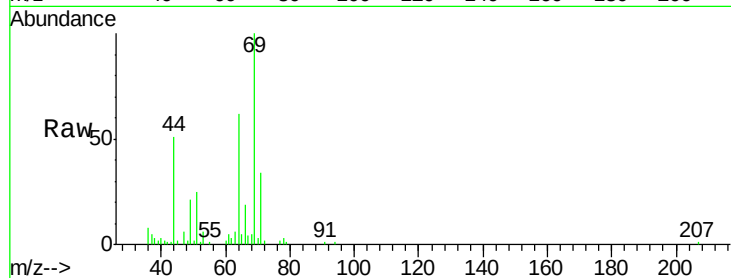
66 30.8 21.9 40.7

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VU033781.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU033781.D (-175) (-)

1.69

6000

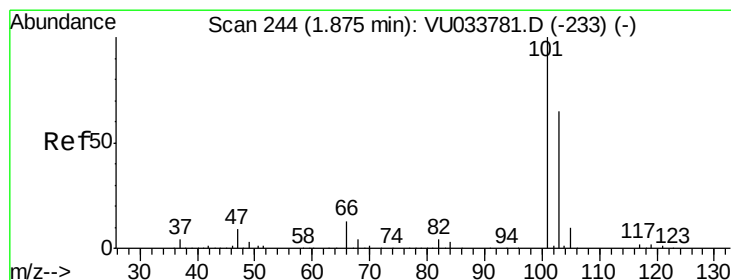
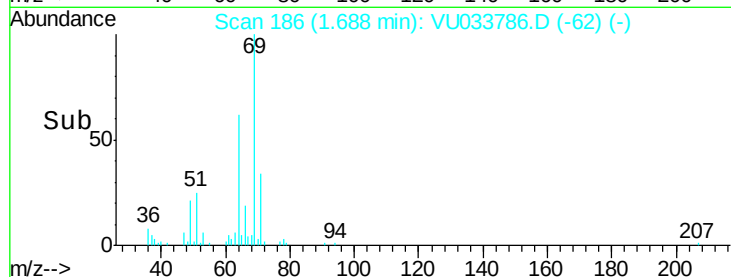
4000

2000

0

1.65 1.70

Time-->



#9

Trichlorofluoromethane

Concen: 2.951 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033786.D

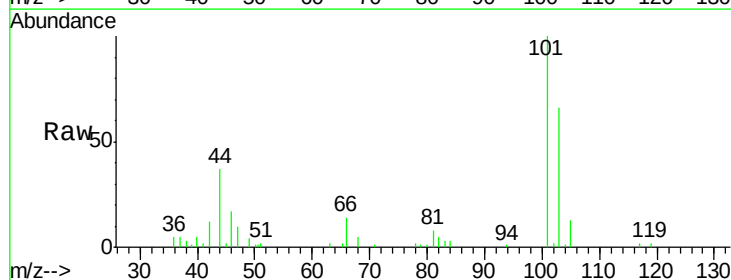
Acq: 13 Aug 2019 17:09

Tgt Ion:101 Resp: 16525

Ion Ratio Lower Upper

101 100

103 65.0 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU033786.D (-120) (-)

Ion 103.00 (102.70 to 103.70): VU033786.D (-120) (-)

1.87

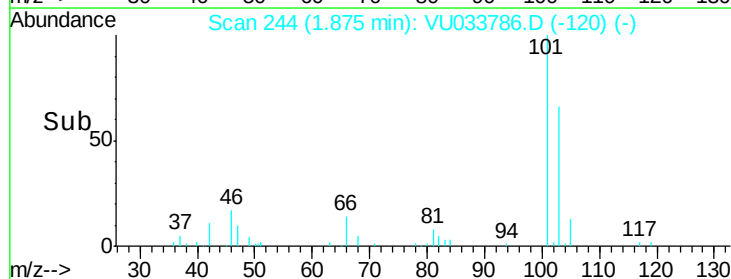
10000

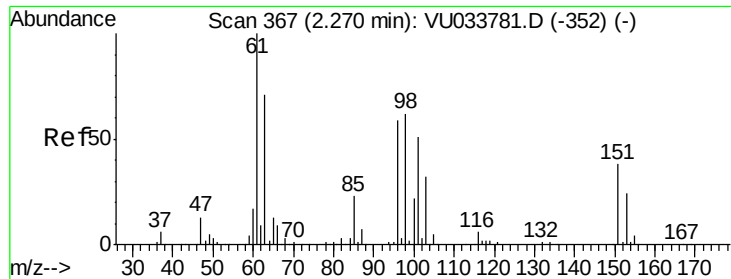
5000

0

1.85 1.90

Time-->





#10

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

Concen: 3.761 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

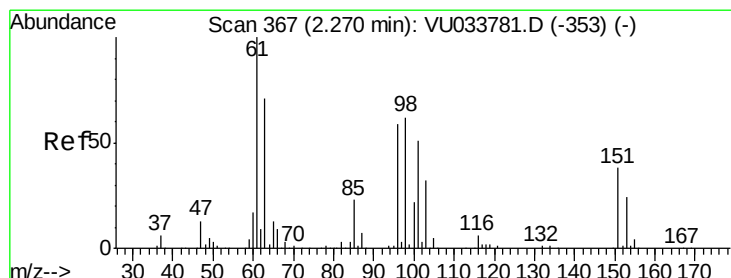
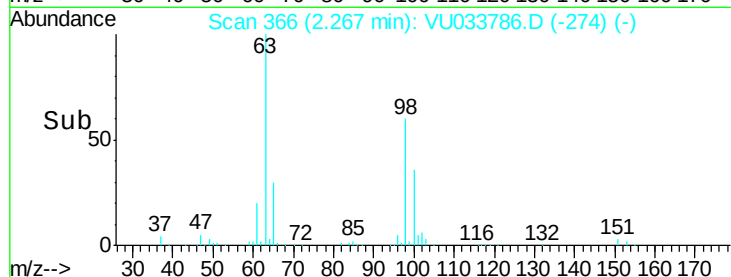
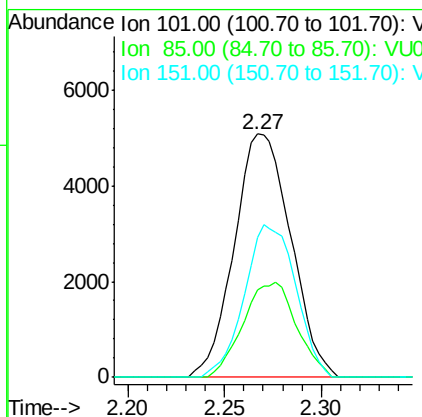
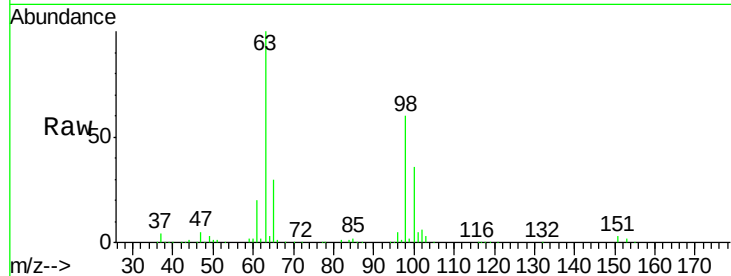
ClientSampleId :

MDL07

Tot Ion:	101	Resp:	10306
Ion Ratio	Lower	Upper	
101	100		
85	36.8	35.2	52.8
151	57.3	58.5	87.7#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.563 ug/L

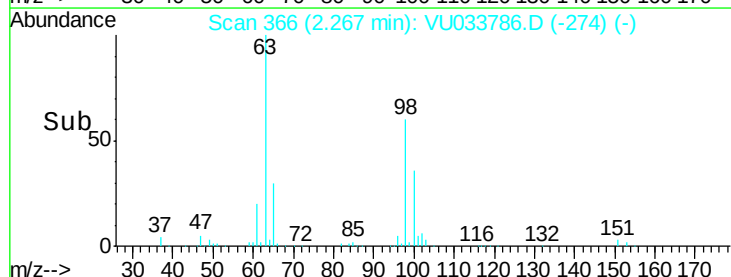
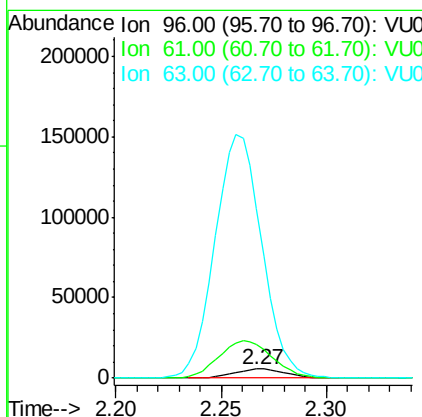
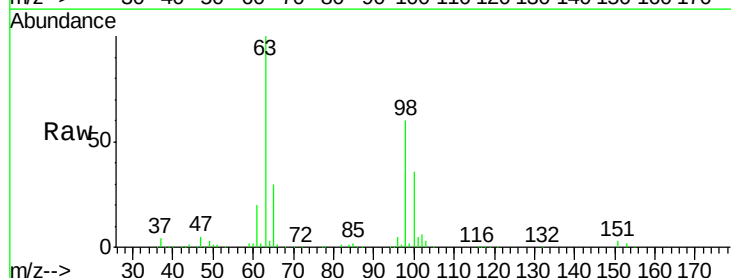
RT: 2.27 min Scan# 366

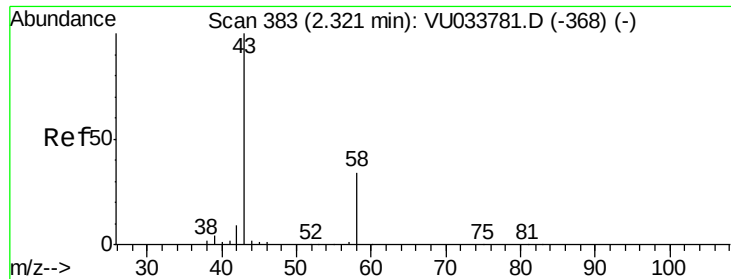
Delta R.T. -0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion:	96	Resp:	9608
Ion Ratio	Lower	Upper	
96	100		
61	368.6	121.5	225.7#
63	1879.0	92.9	172.5#





#13

Acetone

Concen: 6.116 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 11444

Ion Ratio Lower Upper

43 100

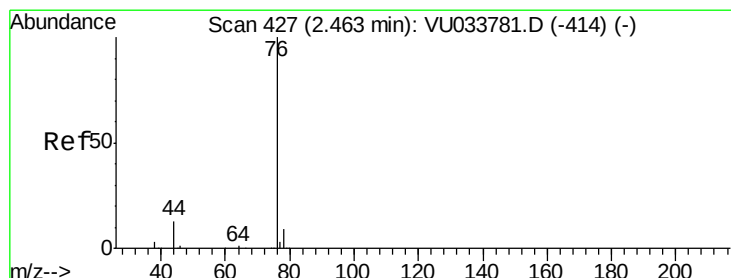
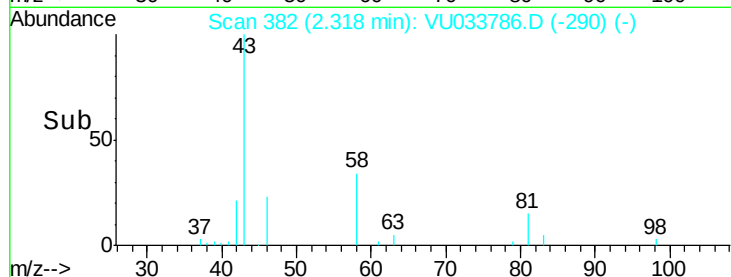
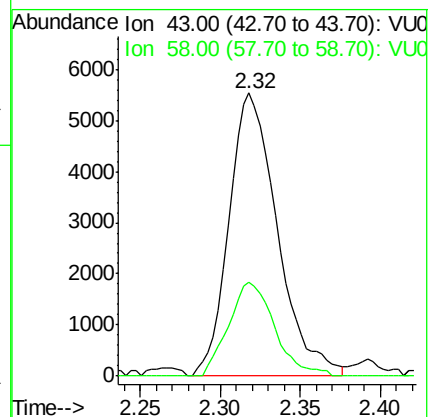
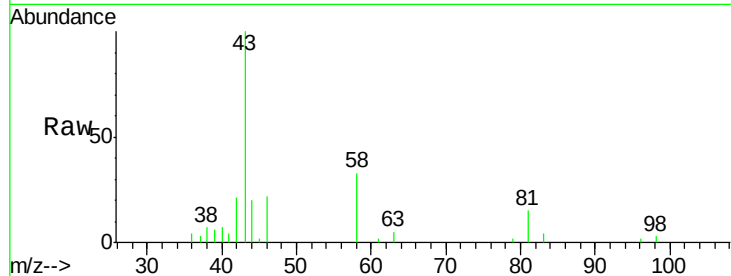
58 31.4 0.0 65.8

Manual Integrations

APPROVED

MMDadoda

8/14/2019 10:44:48 AM



#14

Carbon disulfide

Concen: 3.050 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033786.D

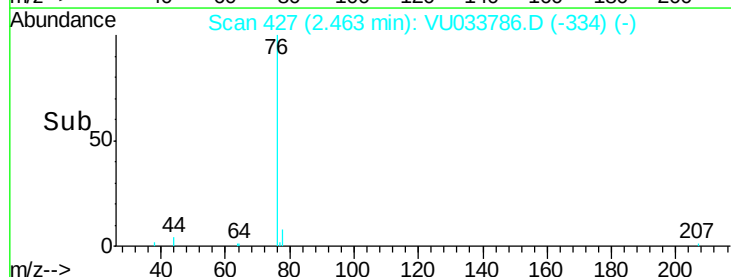
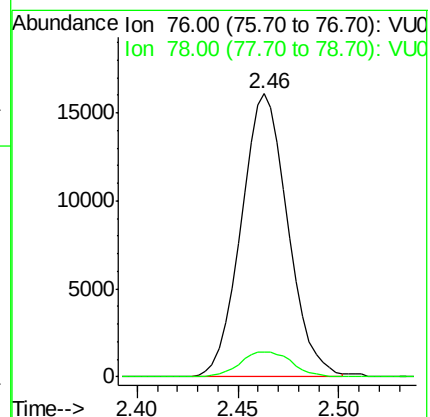
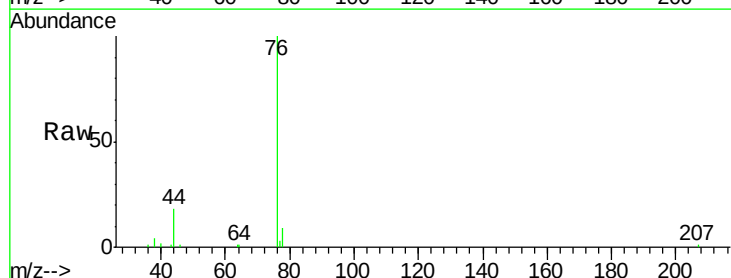
Acq: 13 Aug 2019 17:09

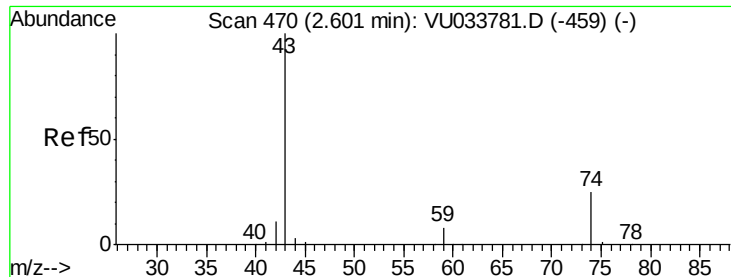
Tgt Ion: 76 Resp: 26035

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





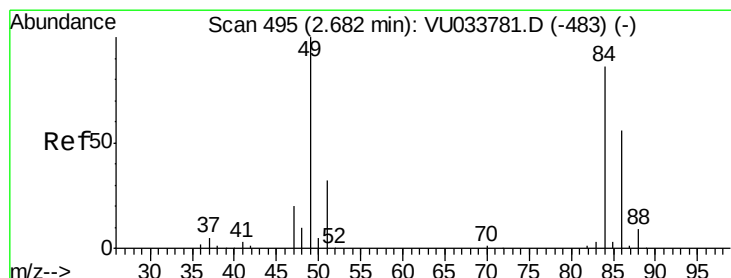
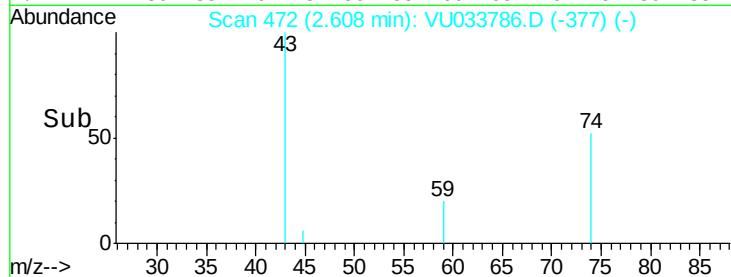
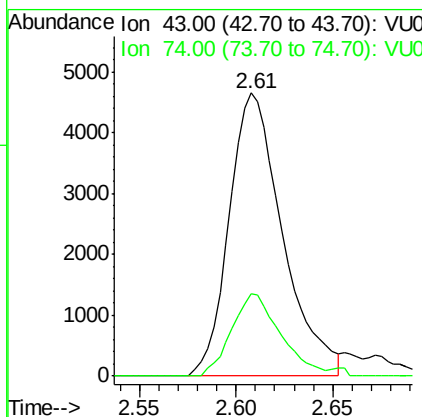
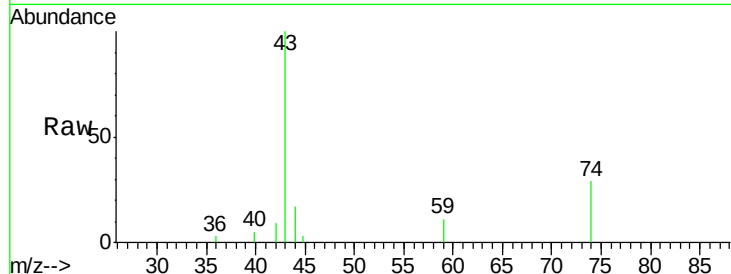
#15
Methvl Acetate
Concen: 2.863 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion: 43 Resp: 8956
Ion Ratio Lower Upper
43 100
74 26.5 20.3 30.5

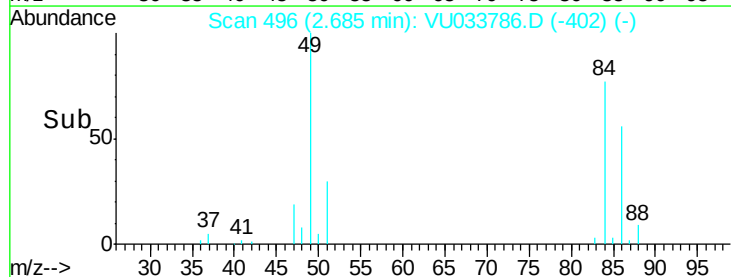
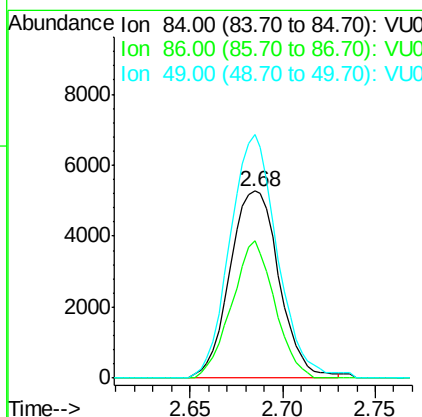
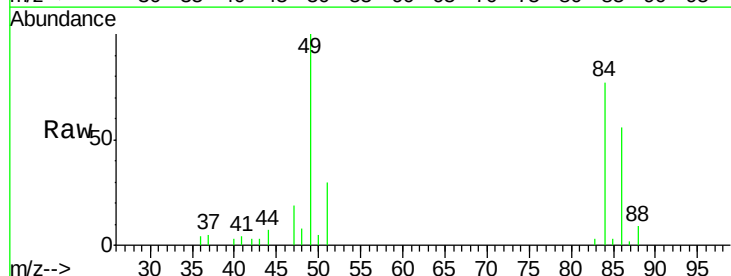
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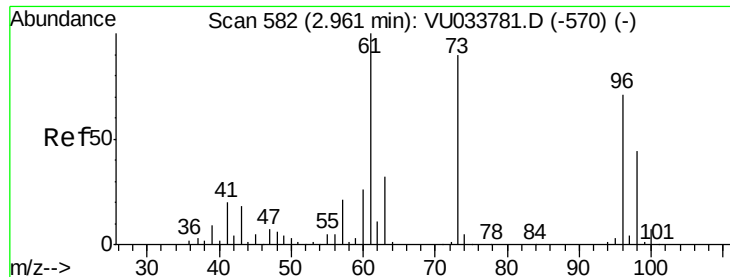
MMDadoda
8/14/2019 10:44:48 AM



#16
Methylene chloride
Concen: 3.160 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion: 84 Resp: 9726
Ion Ratio Lower Upper
84 100
86 73.3 45.4 84.4
49 130.3 84.9 157.7





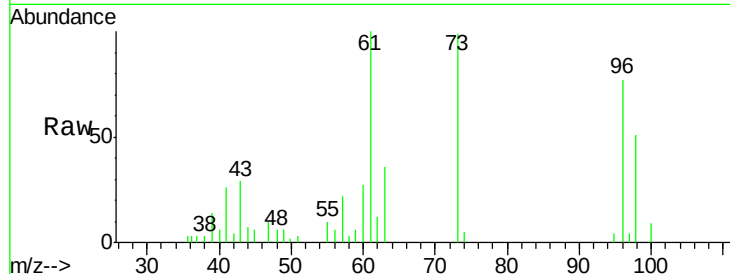
#17
trans-1,2-Dichloroethene
Concen: 3.146 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.6	98.8	183.6
98	66.6	44.6	82.8

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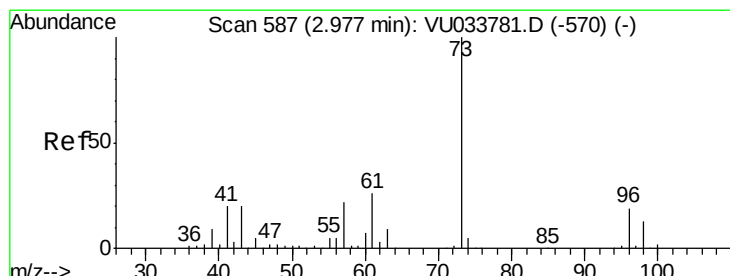
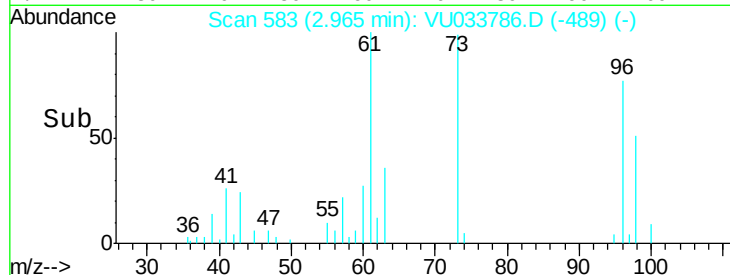
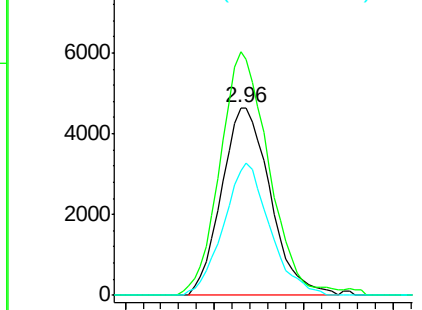


Abundance

Ion 96.00 (95.70 to 96.70): VU0

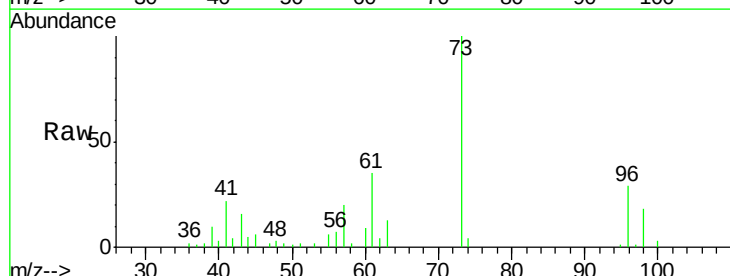
Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18
Methyl tert-butyl Ether
Concen: 2.916 ug/L
RT: 2.98 min Scan# 587
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion	Ratio	Lower	Upper
73	100		
43	11.7	15.4	23.2#
57	21.8	17.9	26.9

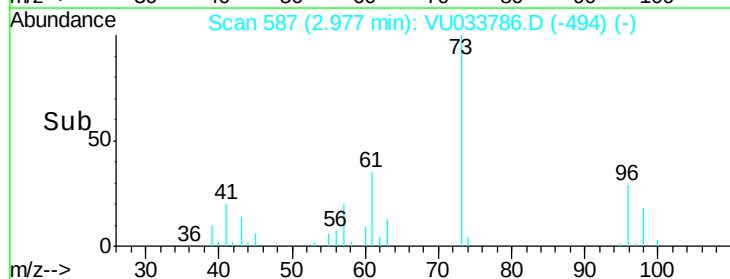
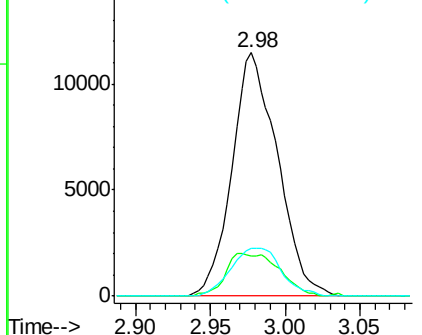


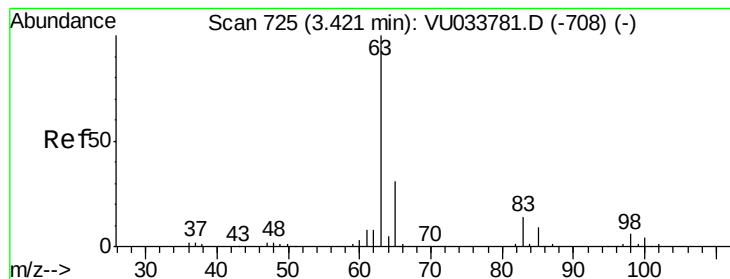
Abundance

Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 3.043 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

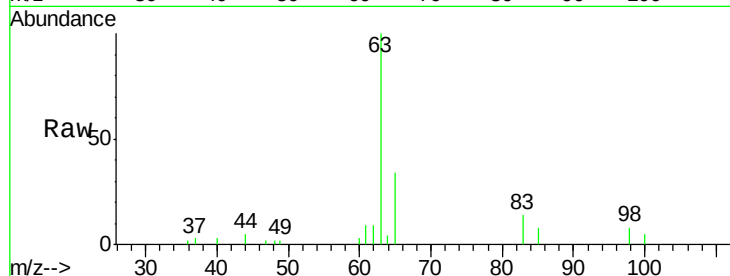
ClientSampleId :

MDL07

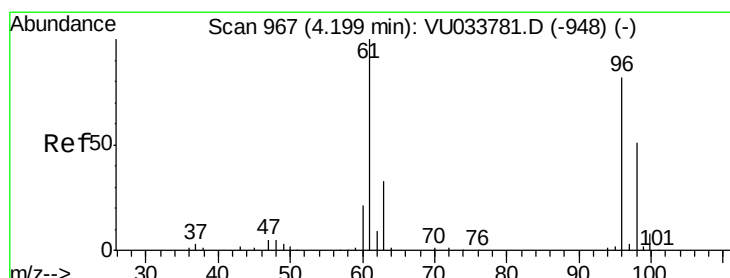
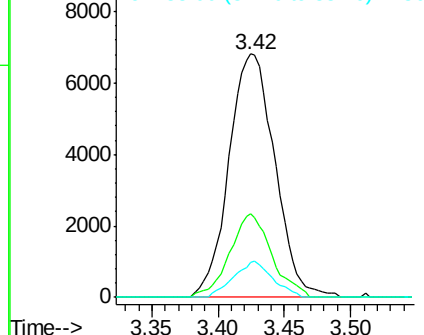
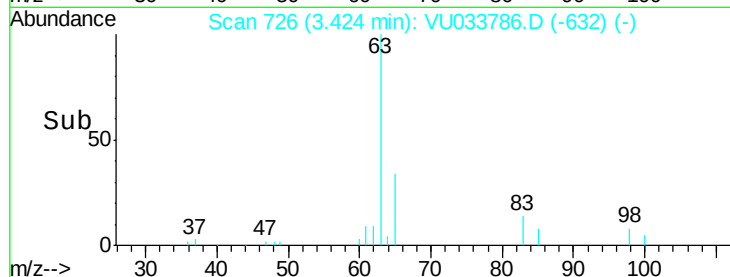
Tot Ion:	63	Resp:	16408
Ion	Ratio	Lower	Upper
63	100		
65	34.5	22.8	42.4
83	14.2	9.5	17.7

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Abundance Ion 63.00 (62.70 to 63.70): VU033786.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.919 ug/L

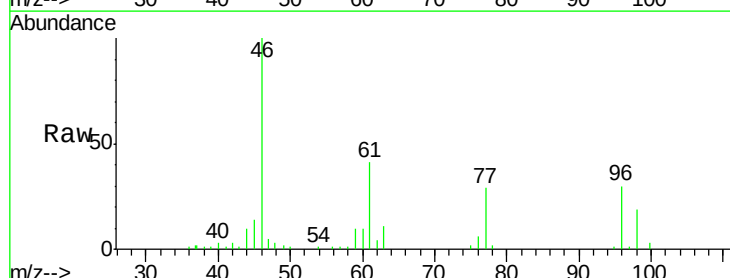
RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

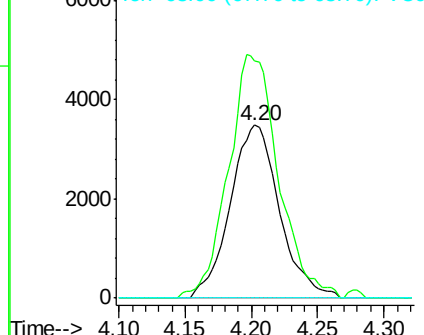
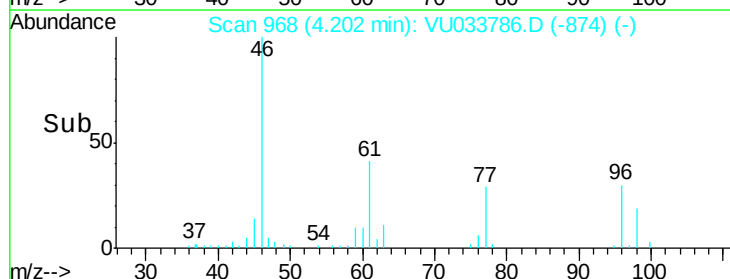
Lab File: VU033786.D

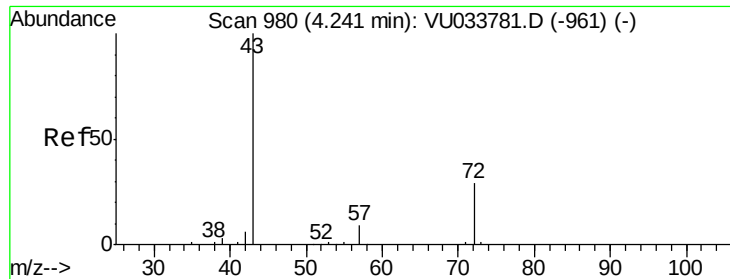
Acq: 13 Aug 2019 17:09

Tgt Ion:	96	Resp:	8994
Ion	Ratio	Lower	Upper
96	100		
61	137.2	88.3	163.9
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033786.D (-874) (-)





#22

2-Butanone

Concen: 5.052 ug/L m

RT: 4.25 min Scan# 984

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 11483

Ion Ratio Lower Upper

43 100

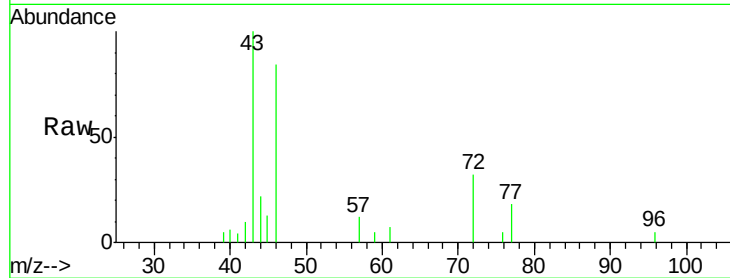
72 13.5 14.5 43.5#

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Abundance Ion 43.00 (42.70 to 43.70): VU033786.D (-887) (-)

Ion 72.00 (71.70 to 72.70): VU033786.D (-887) (-)

4.25

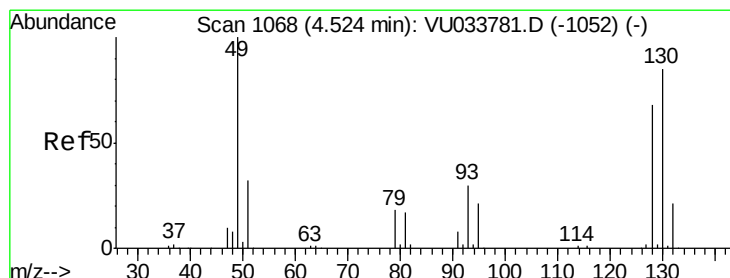
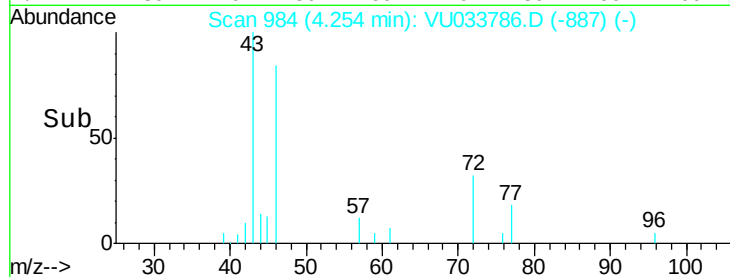
3000

2000

1000

0

Time--> 4.15 4.20 4.25 4.30 4.35



#23

Bromochloromethane

Concen: 3.102 ug/L

RT: 4.53 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion: 128 Resp: 4952

Ion Ratio Lower Upper

128 100

49 168.1 108.1 200.7

130 124.7 91.8 170.6

51 53.7 40.6 61.0

Abundance Ion 128.00 (127.70 to 128.70): VU033786.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VU033786.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VU033786.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VU033786.D (-975) (-)

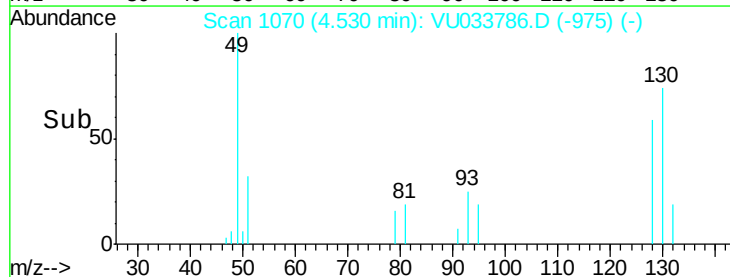
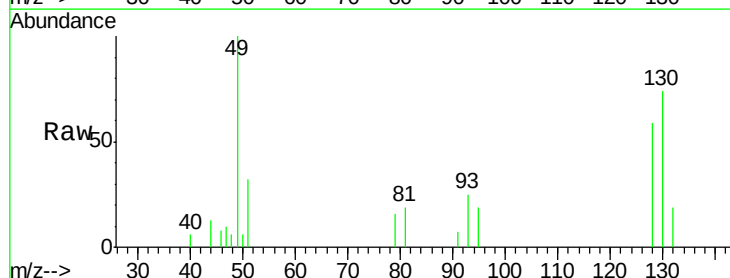
30000

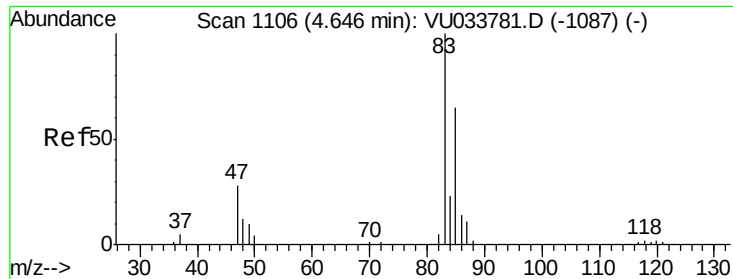
20000

10000

0

Time--> 4.45 4.50 4.55 4.60





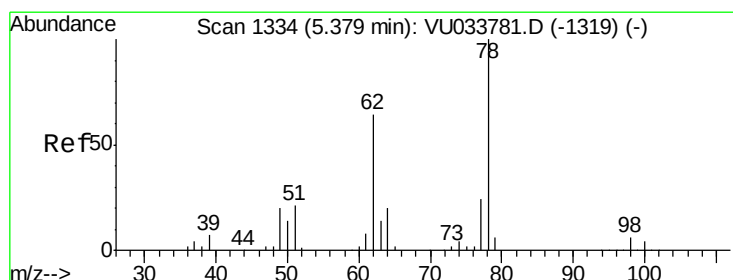
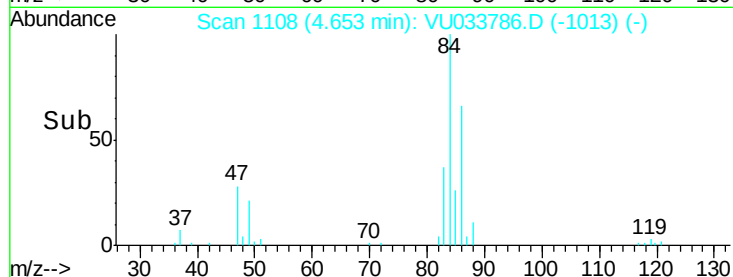
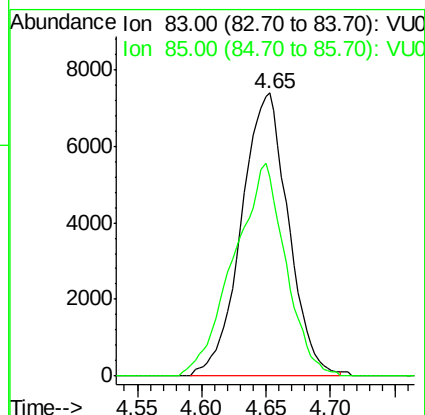
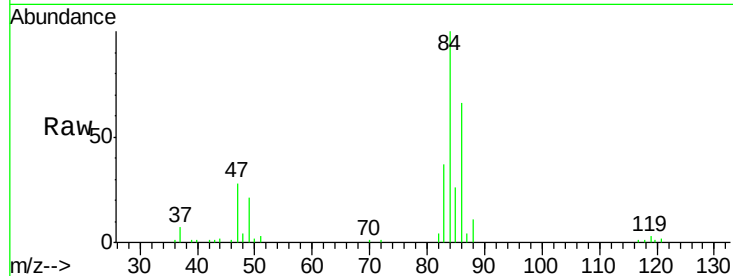
#25
Chloroform
Concen: 3.350 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 83 Resp: 18772
Ion Ratio Lower Upper
83 100
85 70.4 45.6 84.6

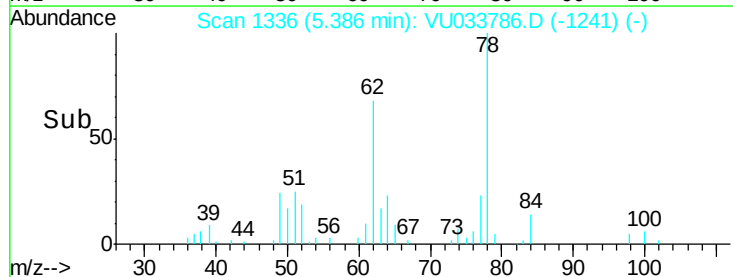
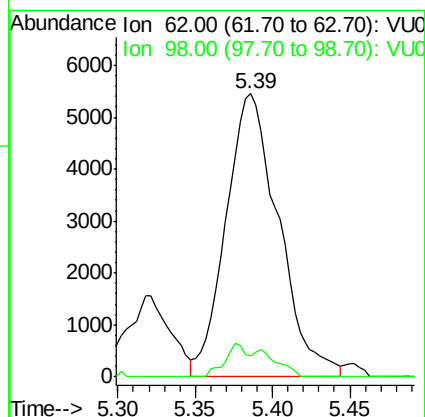
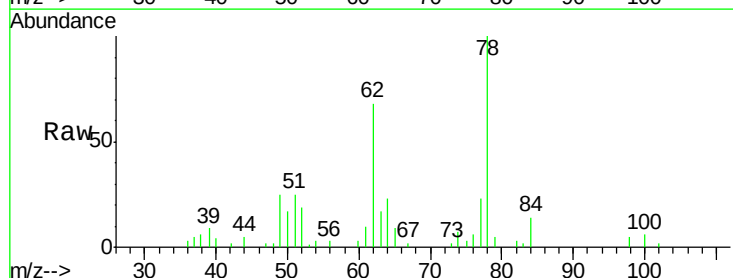
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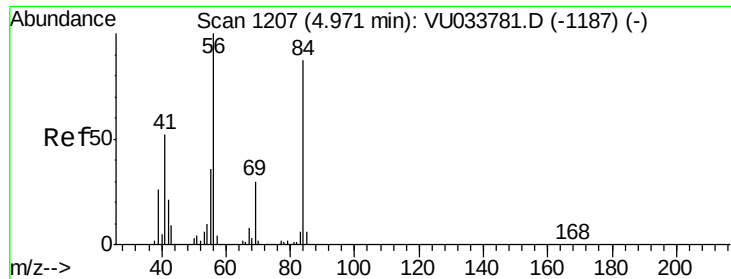
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#27
1,2-Dichloroethane
Concen: 2.961 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion: 62 Resp: 12889
Ion Ratio Lower Upper
62 100
98 7.4 7.4 11.0





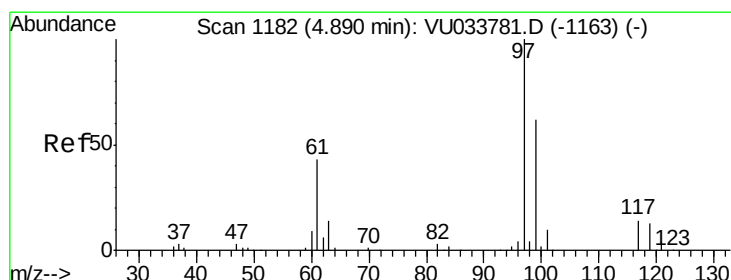
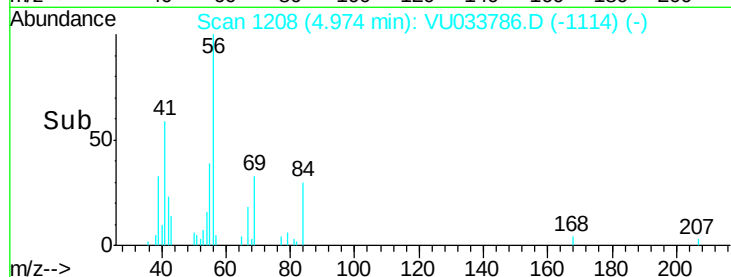
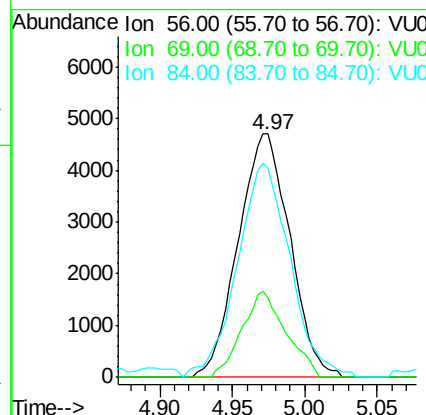
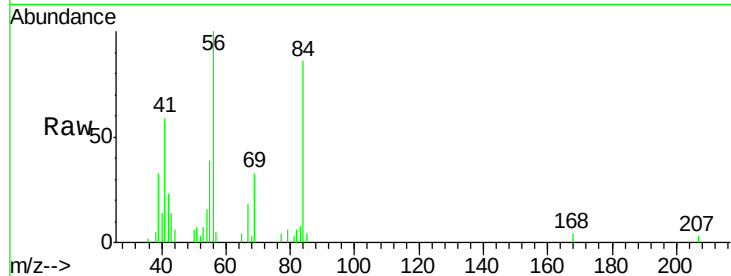
#29
Cyclohexane
Concen: 2.746 ug/L
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.1	25.0	37.4
84	89.4	70.3	105.5

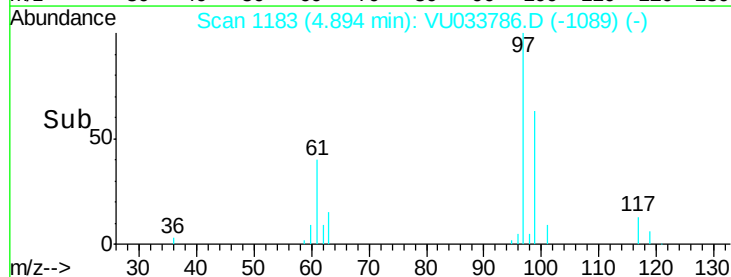
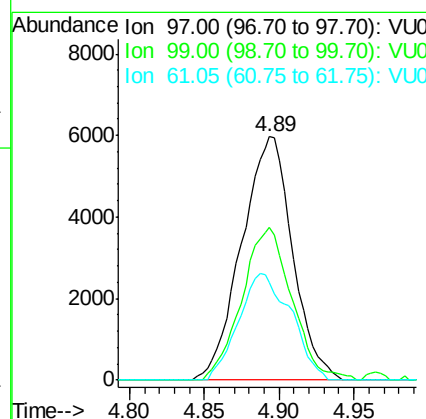
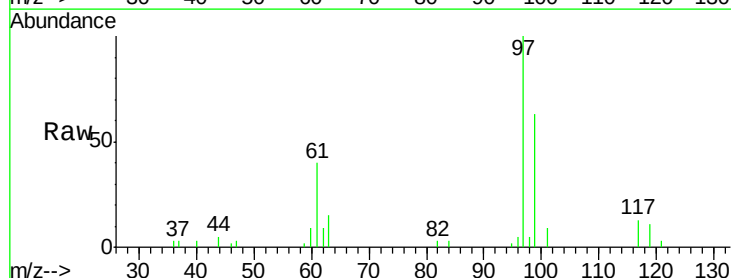
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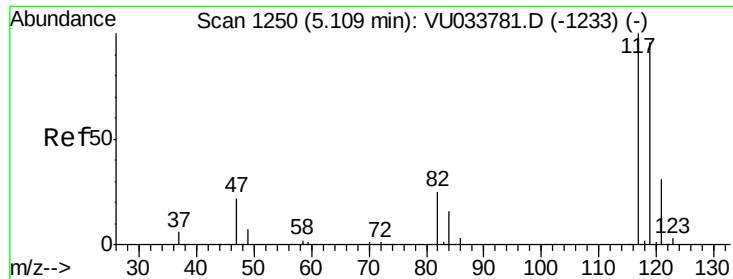
MMDadoda
8/14/2019 10:44:48 AM



#30
1,1,1-Trichloroethane
Concen: 2.990 ug/L
RT: 4.89 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.7	50.9	76.3
61	44.9	36.6	54.8





#31

Carbon tetrachloride

Concen: 3.026 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:117 Resp: 12721

Ion Ratio Lower Upper

117 100

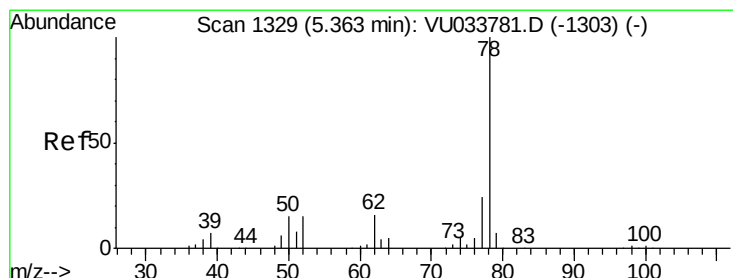
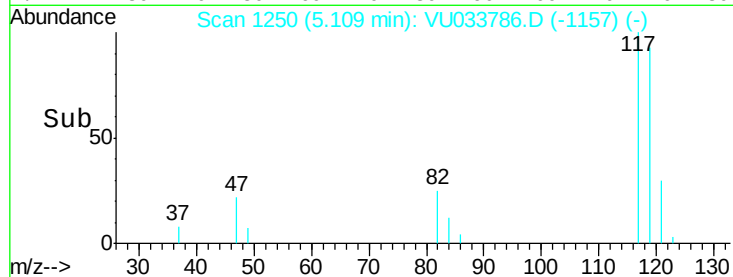
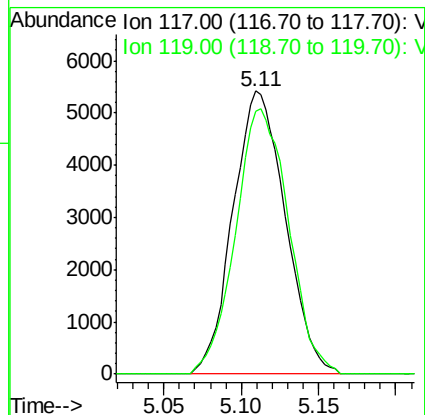
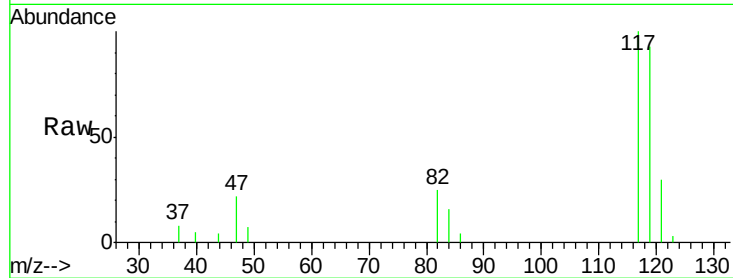
119 95.1 77.5 116.3

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#33

Benzene

Concen: 2.946 ug/L

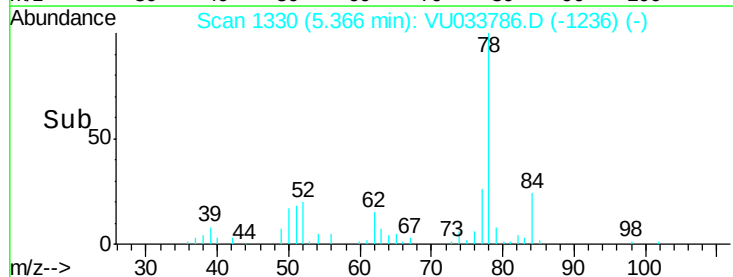
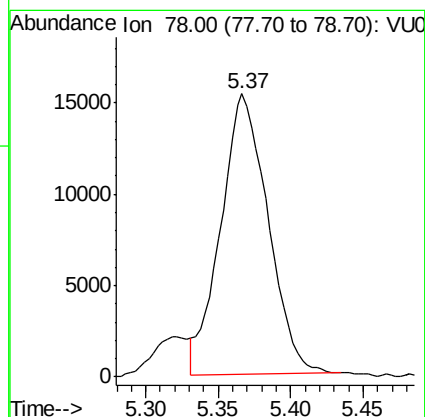
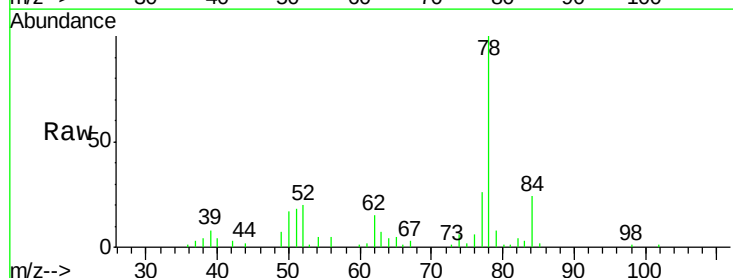
RT: 5.37 min Scan# 1330

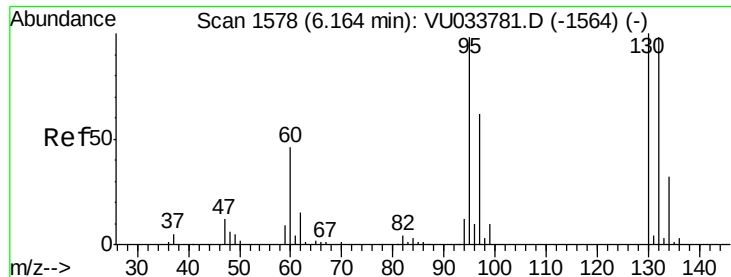
Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion: 78 Resp: 34775





#34

Trichloroethene

Concen: 2.996 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 95 Resp: 9372
Ion Ratio Lower Upper

95 100

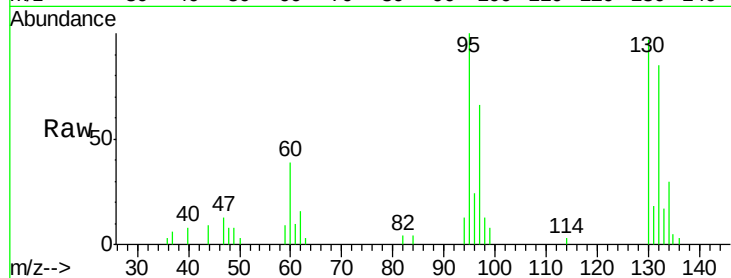
97 66.1 45.1 83.7

132 85.3 67.9 126.1

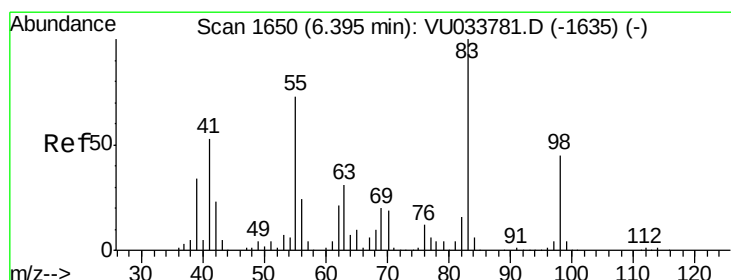
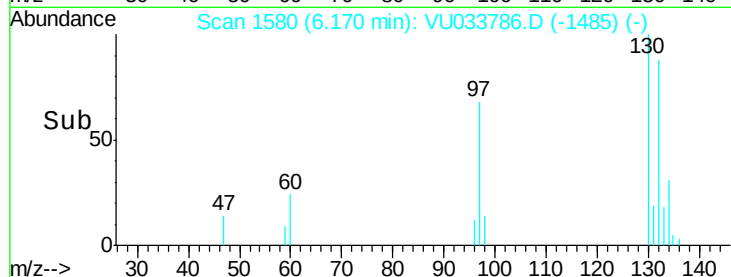
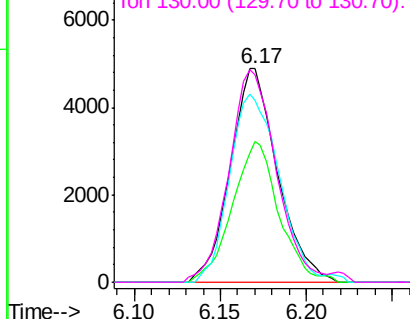
130 96.8 71.6 133.0

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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: 2.824 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033786.D

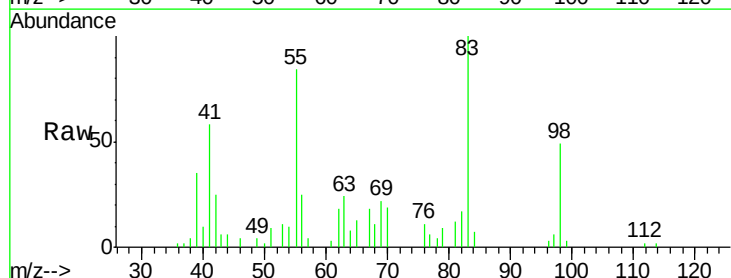
Acq: 13 Aug 2019 17:09

Tgt Ion: 83 Resp: 12872
Ion Ratio Lower Upper

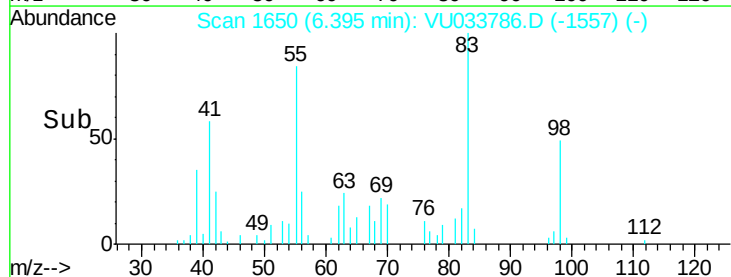
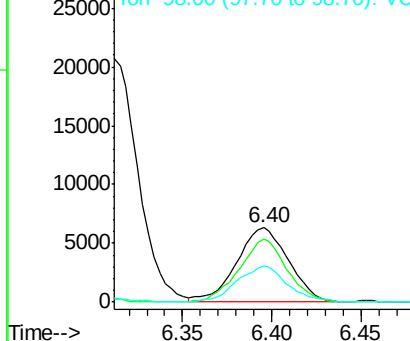
83 100

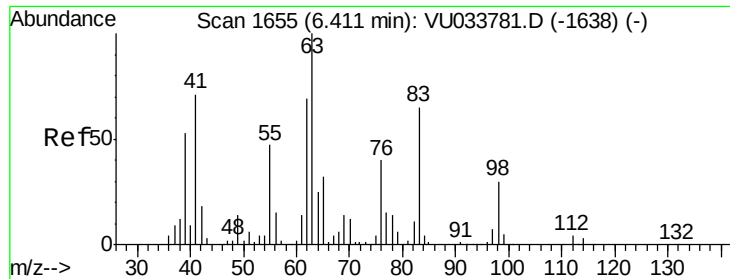
55 77.3 62.2 93.4

98 46.9 35.8 53.8



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0





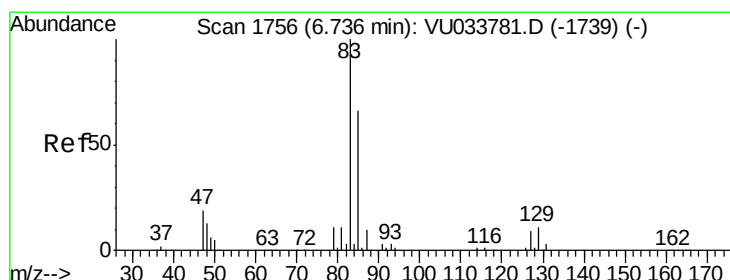
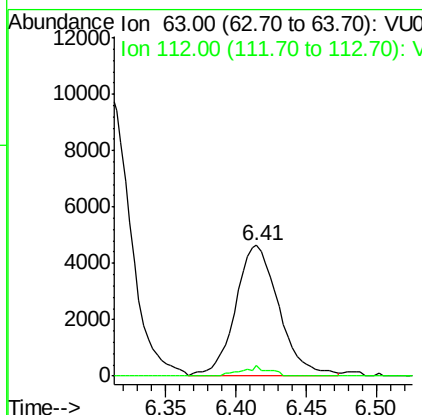
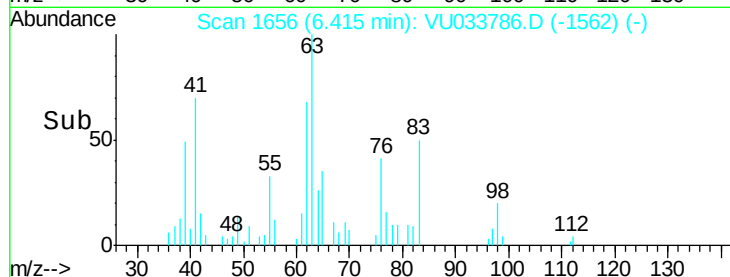
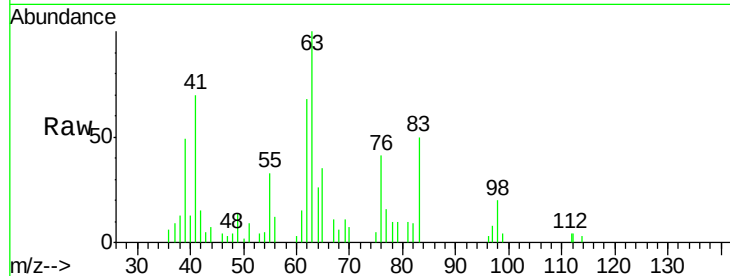
#37
 1,2-Dichloropropane
 Concen: 3.126 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion: 63 Resp: 10057
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.6

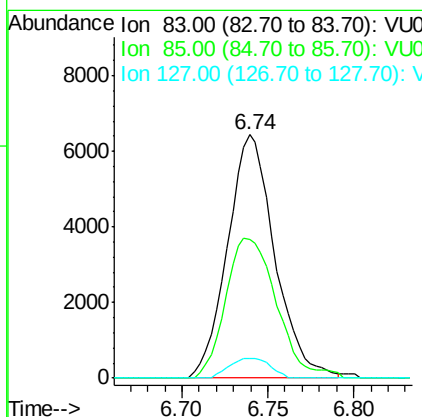
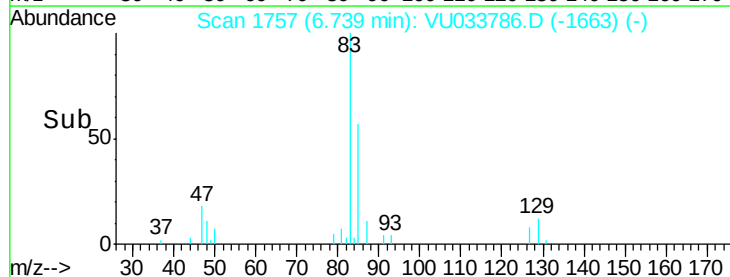
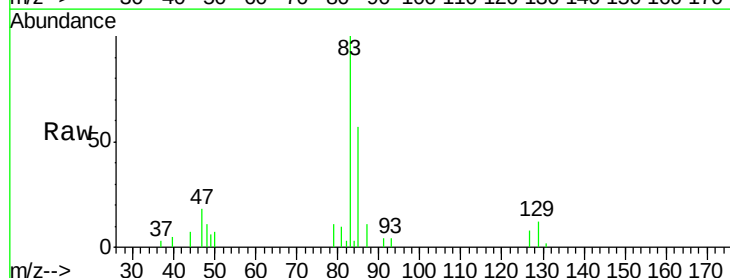
Manual Integrations
 APPROVED

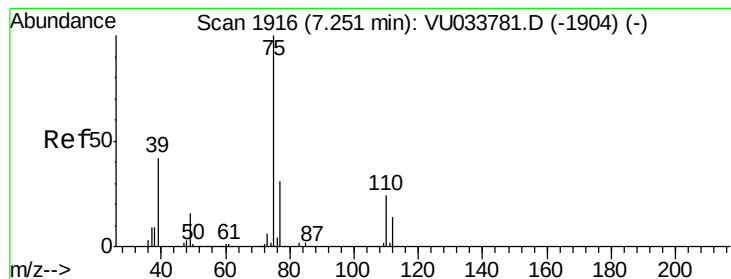
MMDadoda
 8/14/2019 10:44:48 AM



#38
 Bromodichloromethane
 Concen: 2.958 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion: 83 Resp: 12277
 Ion Ratio Lower Upper
 83 100
 85 57.2 45.8 85.0
 127 8.1 7.4 11.0





#39

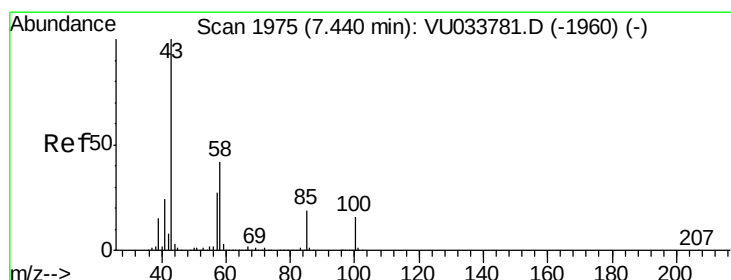
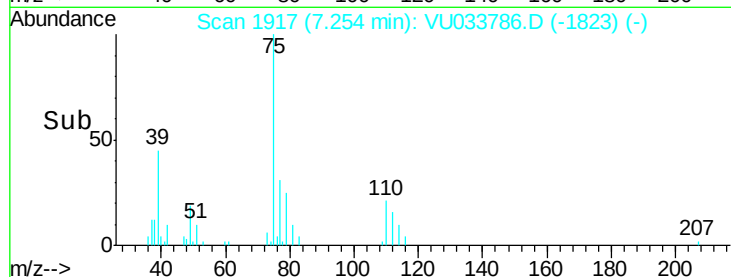
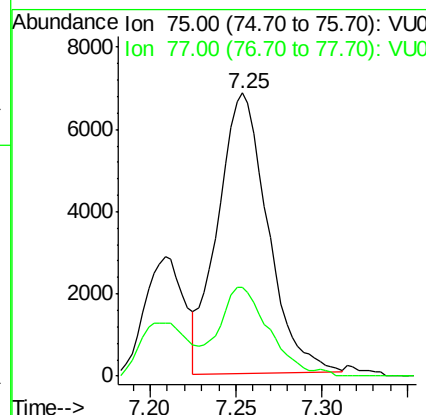
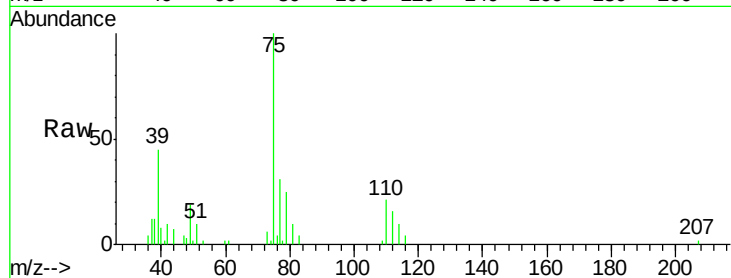
cis-1,3-Dichloropropene
Concen: 2.907 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.0	40.8

Manual Integrations
APPROVED

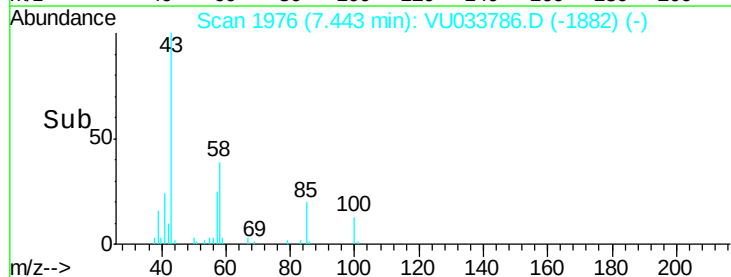
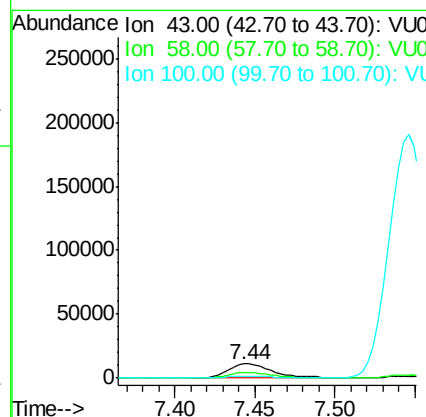
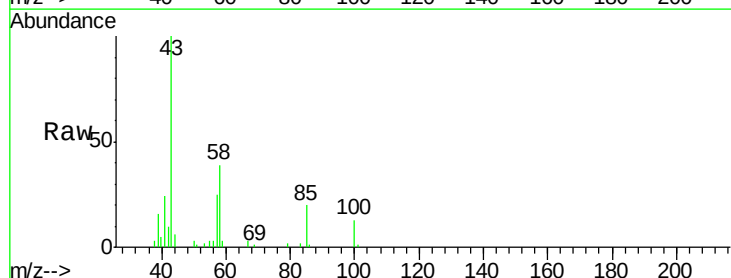
MMDadoda
8/14/2019 10:44:48 AM

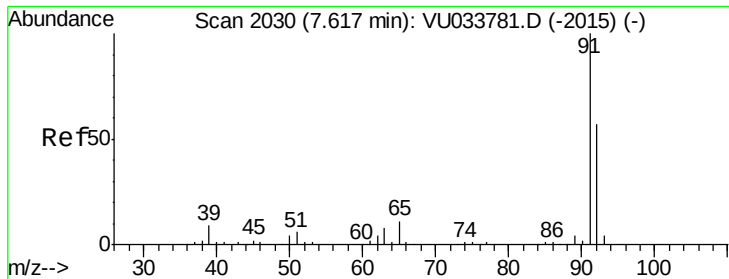


#40

4-Methyl-2-pentanone
Concen: 5.382 ug/L
RT: 7.44 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.2	32.5	48.7
100	14.0	12.2	18.2





#42

Toluene

Concen: 2.935 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 36592

Ion Ratio Lower Upper

91 100

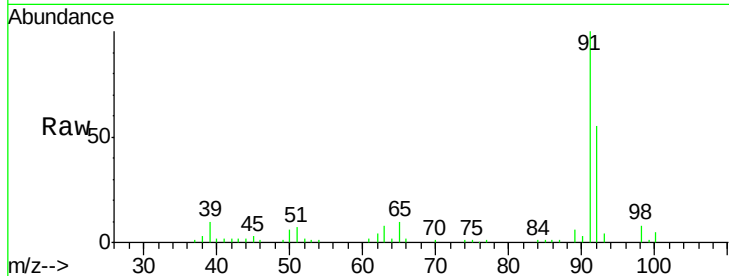
92 54.8 40.0 74.2

Manual Integrations

APPROVED

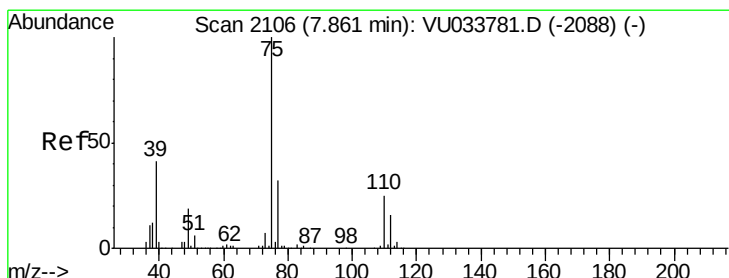
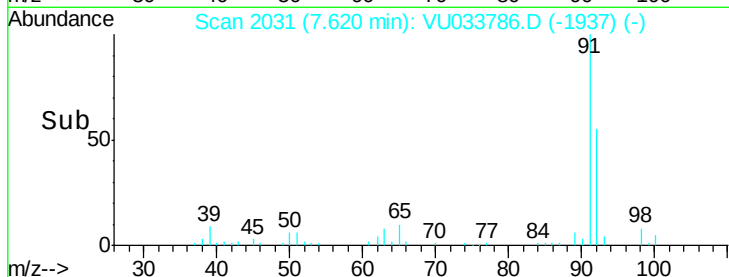
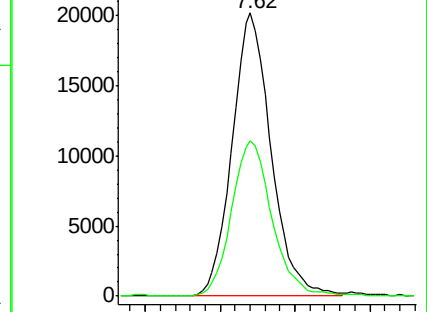
MMDadoda

8/14/2019 10:44:48 AM



Abundance Ion 91.00 (90.70 to 91.70): VU033786.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU033786.D (-2015) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.958 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033786.D

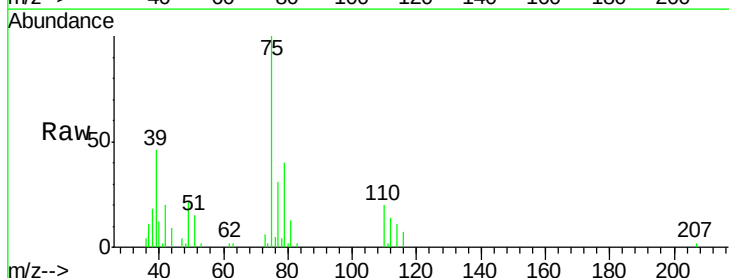
Acq: 13 Aug 2019 17:09

Tgt Ion: 75 Resp: 12793

Ion Ratio Lower Upper

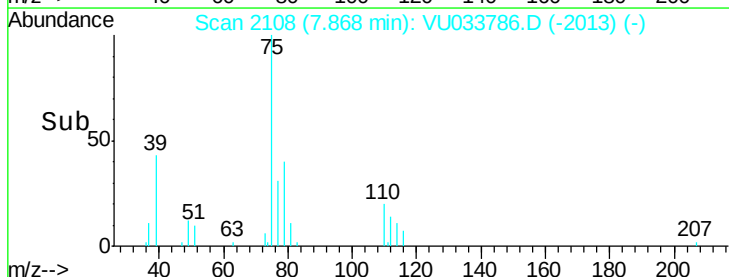
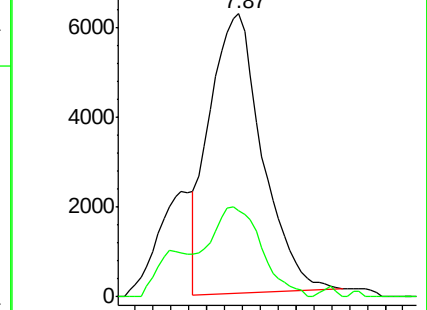
75 100

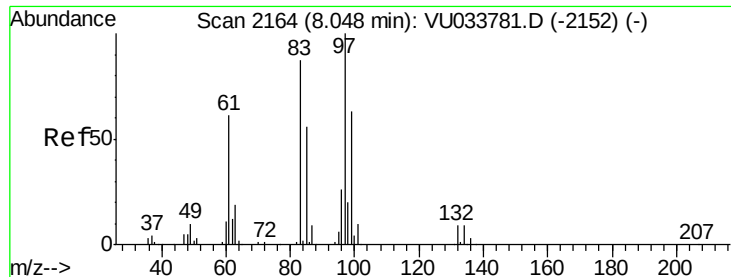
77 30.6 22.7 42.3



Abundance Ion 75.00 (74.70 to 75.70): VU033786.D (-2013) (-)

Ion 77.00 (76.70 to 77.70): VU033786.D (-2013) (-)





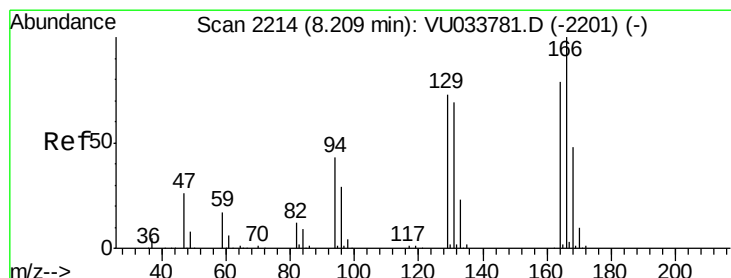
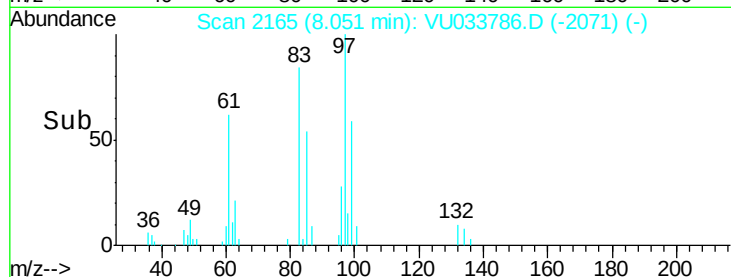
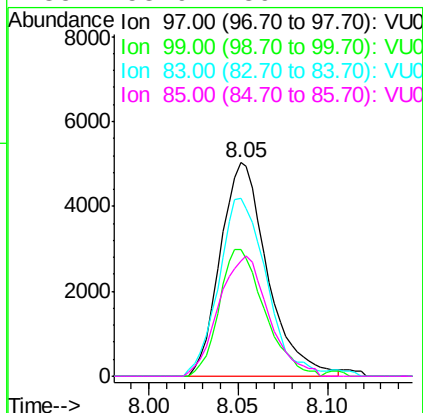
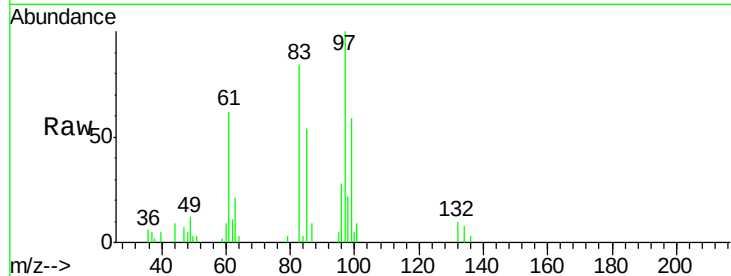
#45
 1,1,2-Trichloroethane
 Concen: 3.053 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	97	Resp:	9269
Ion	Ratio	Lower	Upper
97	100		
99	59.2	43.5	80.9
83	83.6	61.8	114.8
85	53.9	39.1	72.7

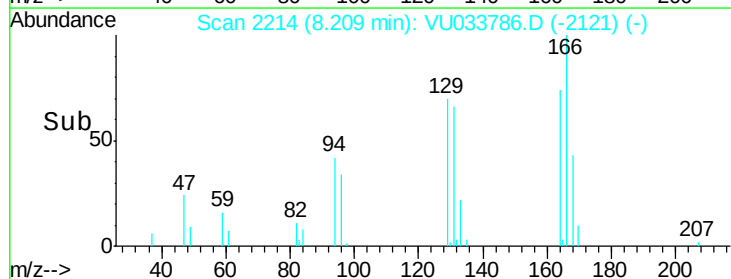
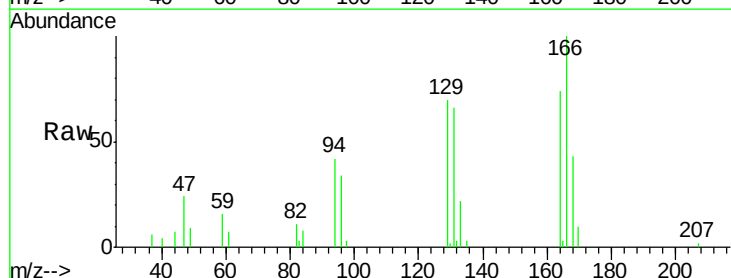
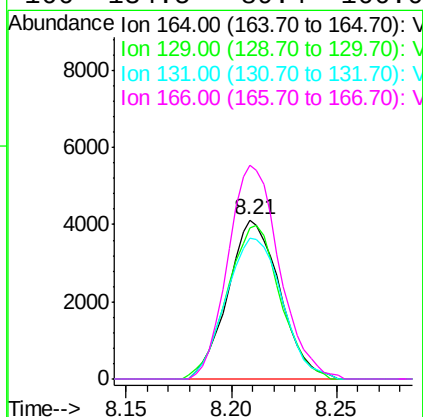
Manual Integrations
 APPROVED

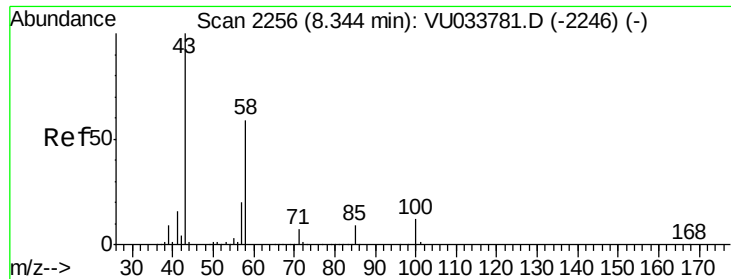
MMDadoda
 8/14/2019 10:44:48 AM



#46
 Tetrachloroethene
 Concen: 2.874 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion:	164	Resp:	7049
Ion	Ratio	Lower	Upper
164	100		
129	94.8	65.5	121.6
131	88.7	64.0	119.0
166	134.5	89.4	166.0





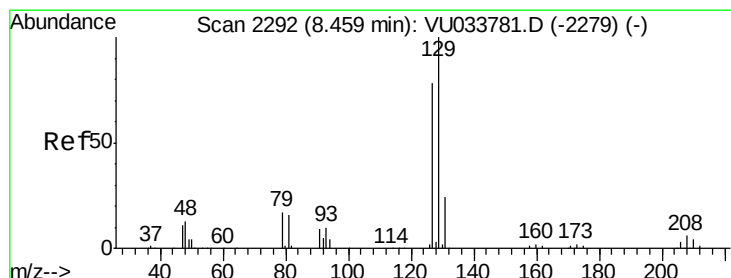
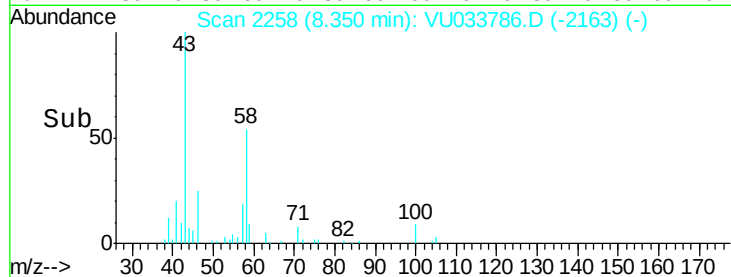
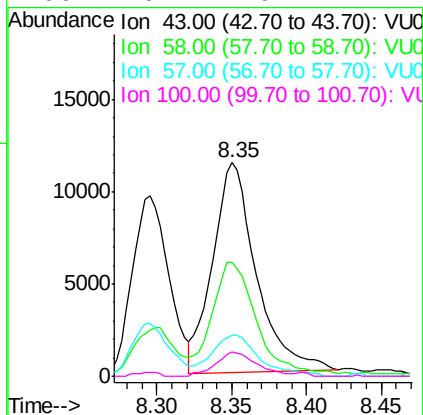
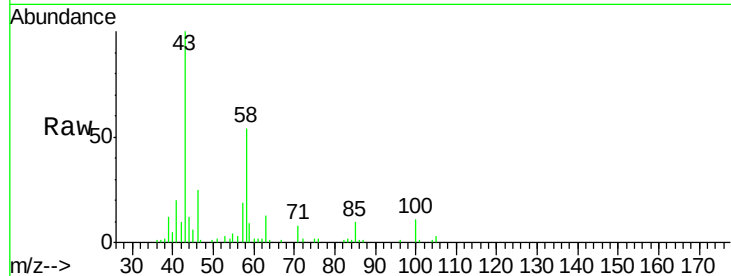
#48
2-Hexanone
Concen: 7.534 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ion	Ratio	Lower	Upper
23081	43	100		
	58	55.9	45.4	68.0
	57	21.7	15.4	23.0
	100	10.7	9.4	14.2

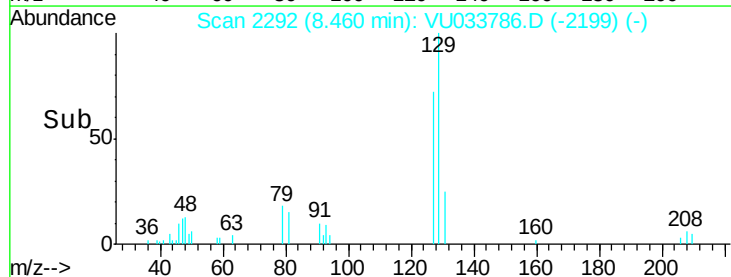
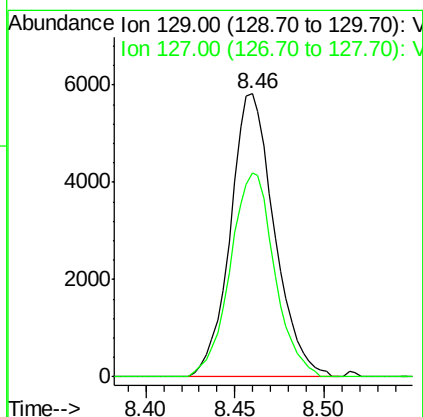
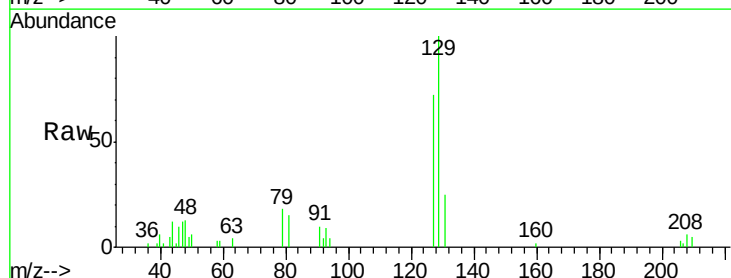
Manual Integrations
APPROVED

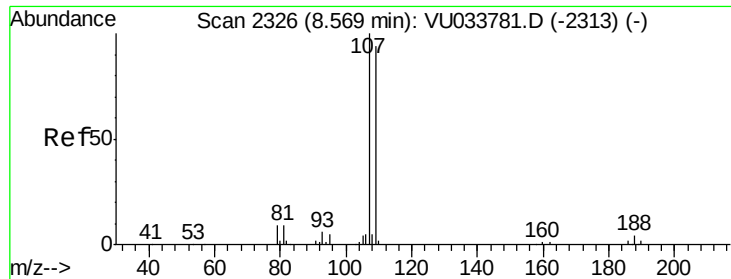
MMDadoda
8/14/2019 10:44:48 AM



#49
Dibromochloromethane
Concen: 2.946 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033786.D
Acq: 13 Aug 2019 17:09

Tgt Ion	Ion	Ratio	Lower	Upper
9986	129	100		
	127	72.0	54.4	101.0





#50

1,2-Dibromoethane

Concen: 2.945 ug/L

RT: 8.57 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

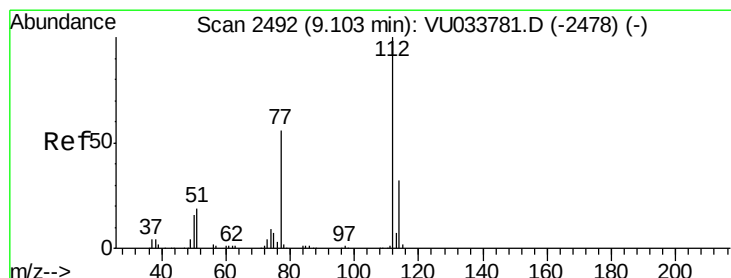
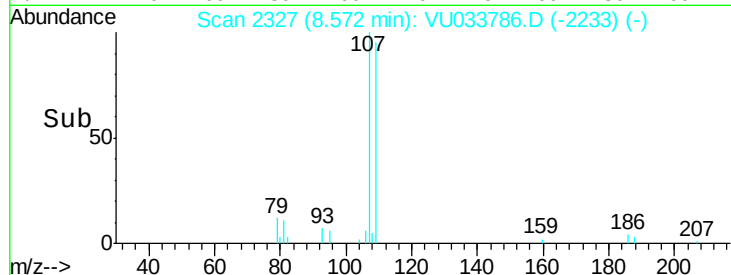
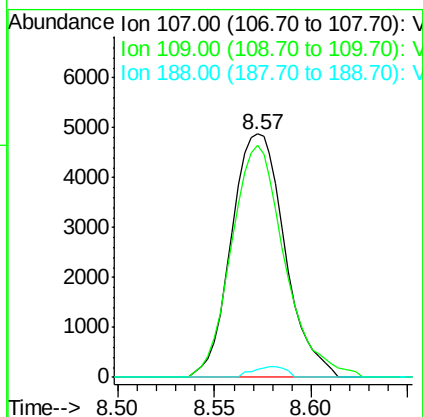
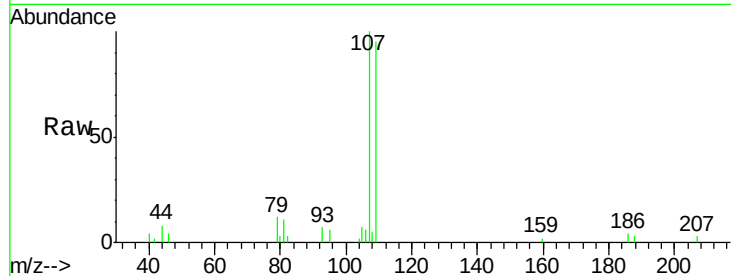
ClientSampleId :

MDL07

Tot Ion:	107	Resp:	9379
Ion Ratio	Lower	Upper	
107	100		
109	95.1	66.0	122.6
188	3.3	3.0	4.6

Manual Integrations
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MMDadoda
8/14/2019 10:44:48 AM



#51

Chlorobenzene

Concen: 2.995 ug/L

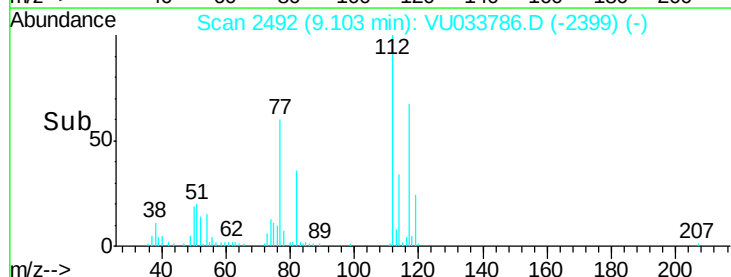
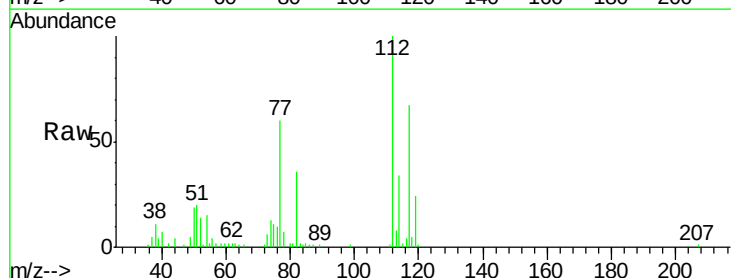
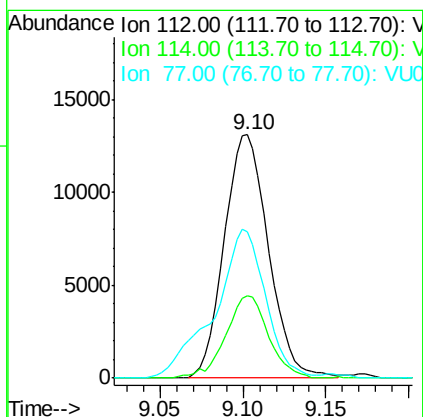
RT: 9.10 min Scan# 2492

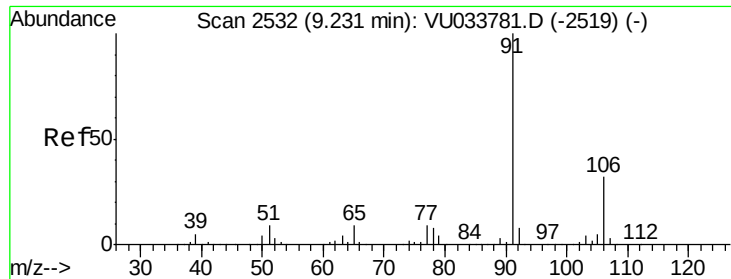
Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion:	112	Resp:	24300
Ion Ratio	Lower	Upper	
112	100		
114	34.0	22.4	41.6
77	59.9	46.2	69.4





#52

Ethylbenzene

Concen: 2.783 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 36519

Ion Ratio Lower Upper

91 100

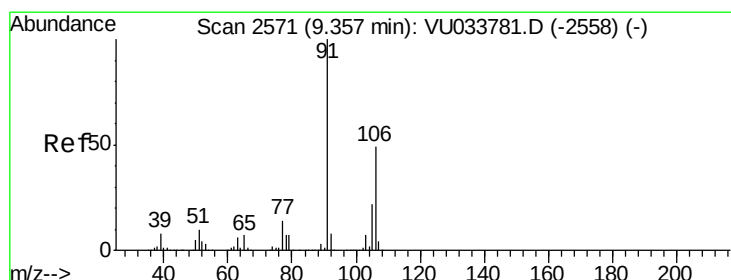
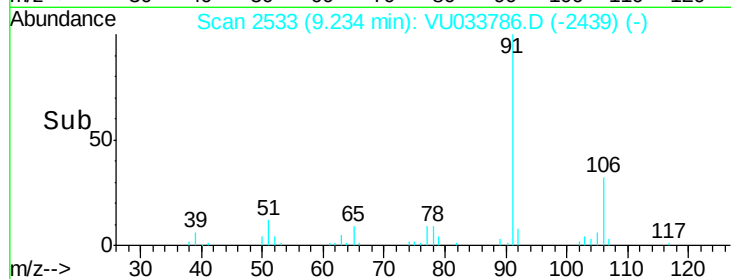
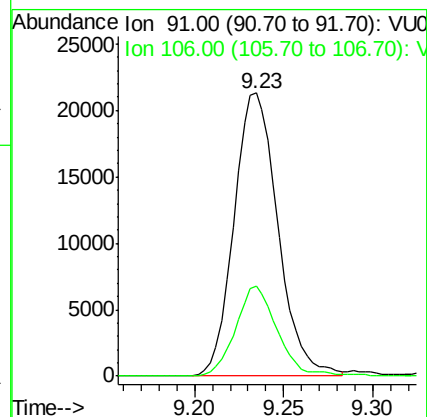
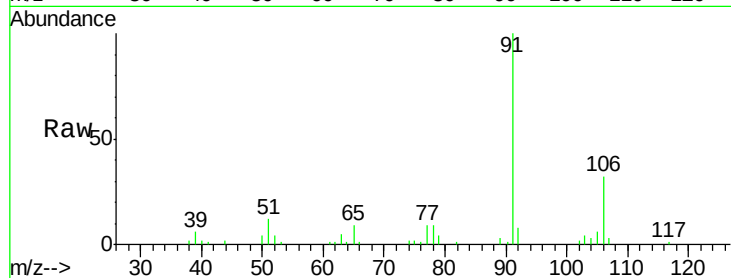
106 32.0 22.0 41.0

Manual Integrations

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MMDadoda

8/14/2019 10:44:48 AM



#53

m,p-Xylene

Concen: 2.507 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033786.D

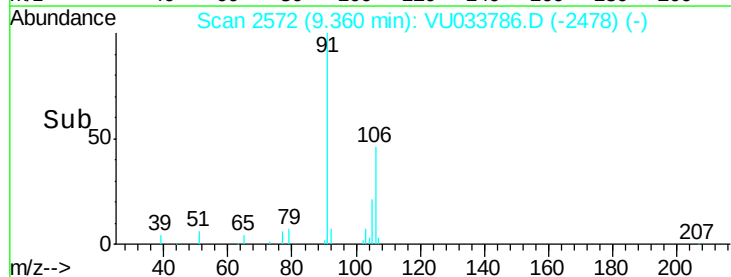
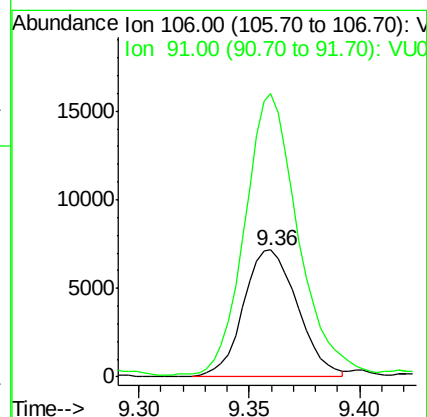
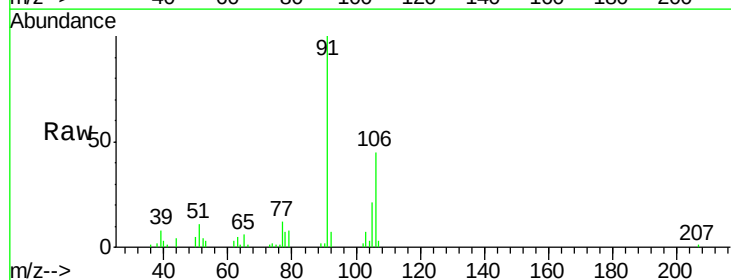
Acq: 13 Aug 2019 17:09

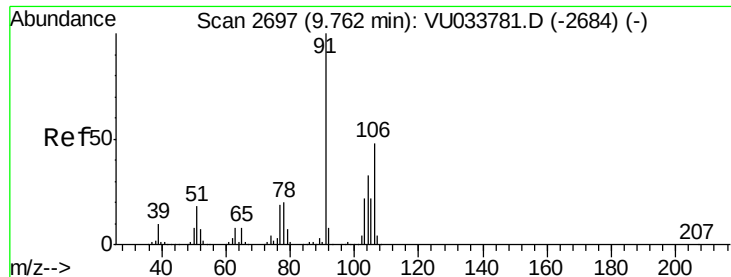
Tgt Ion: 106 Resp: 12294

Ion Ratio Lower Upper

106 100

91 222.5 142.1 263.9





#54

o-xylene

Concen: 2.538 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion:106 Resp: 12248

Ion Ratio Lower Upper

106 100

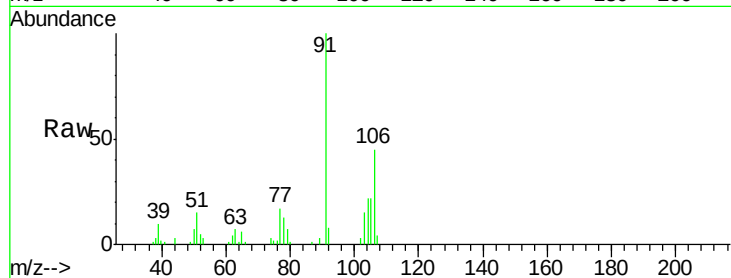
91 220.5 150.4 279.4

Manual Integrations

APPROVED

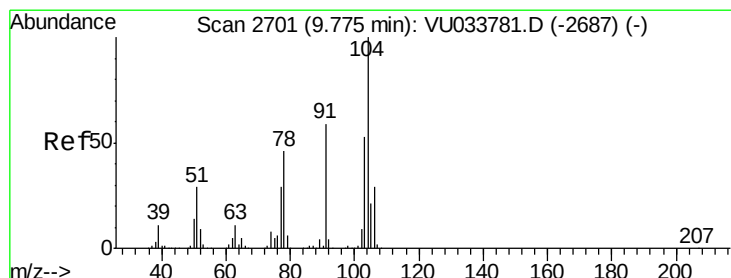
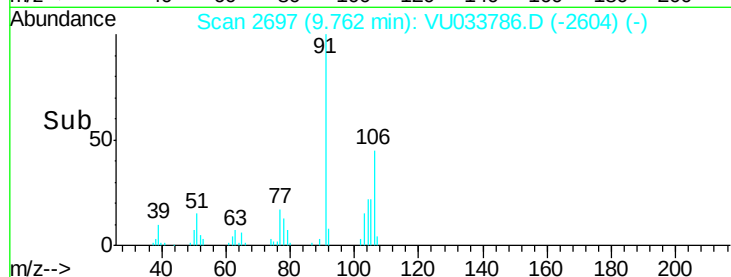
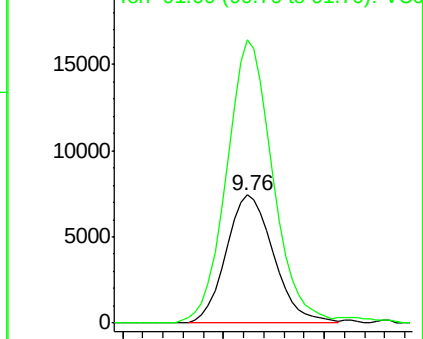
MMDadoda

8/14/2019 10:44:48 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.353 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033786.D

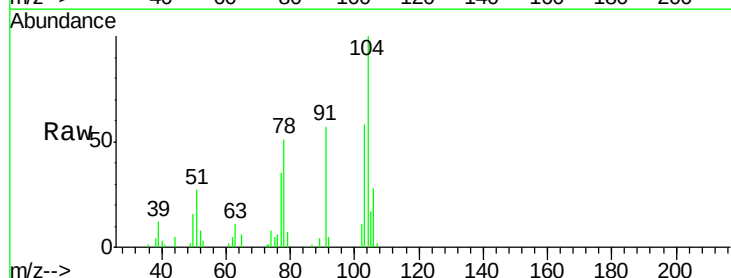
Acq: 13 Aug 2019 17:09

Tgt Ion:104 Resp: 19269

Ion Ratio Lower Upper

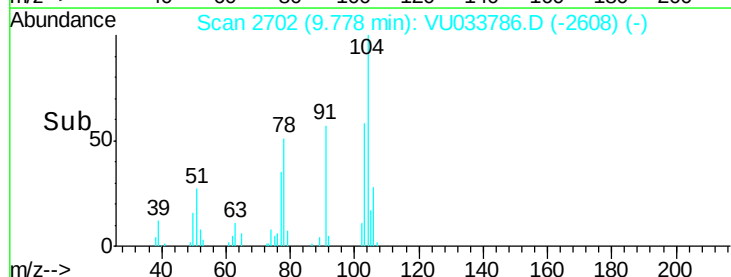
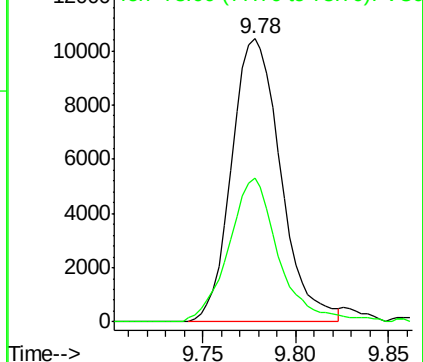
104 100

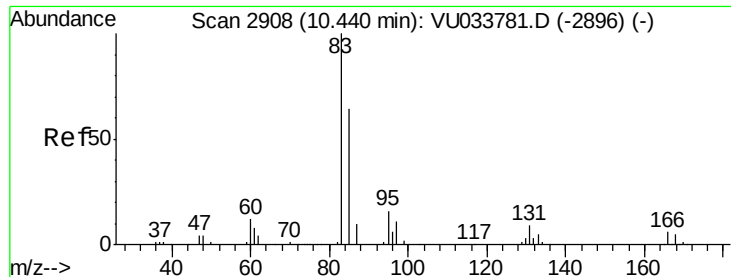
78 50.7 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.995 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

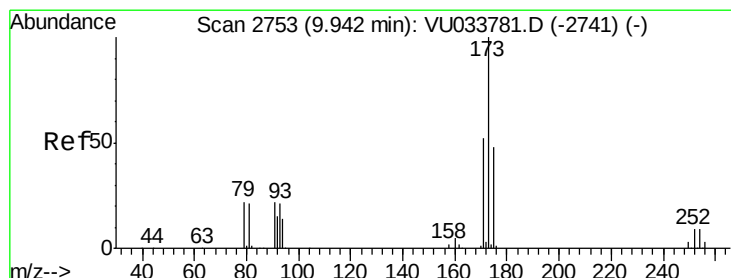
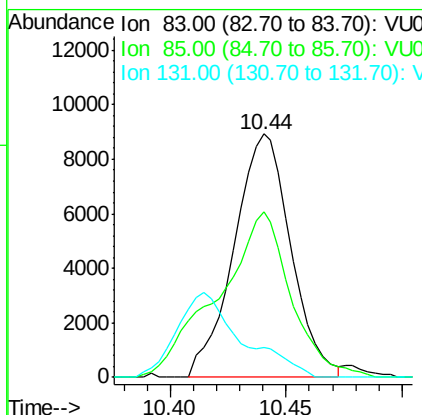
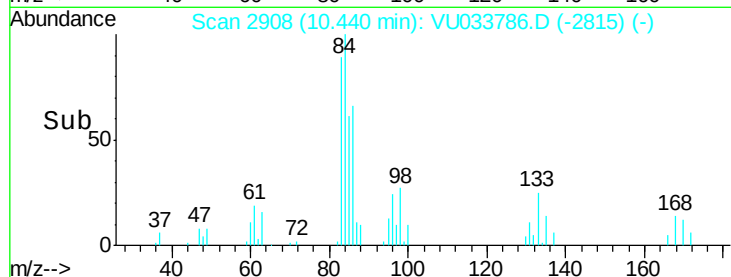
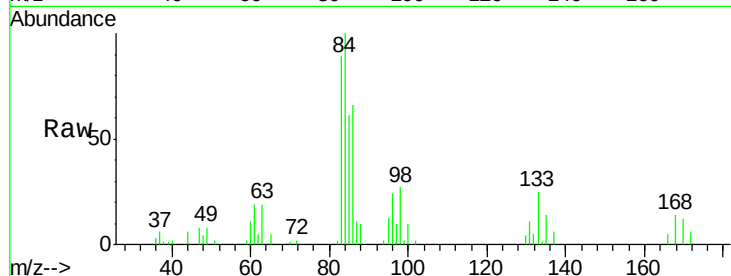
ClientSampleId :

MDL07

Tot Ion:	83	Resp:	15207
Ion Ratio	Lower	Upper	
83	100		
85	67.8	44.7	83.1
131	12.4	7.8	11.6#

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#59

Bromoform

Concen: 3.070 ug/L

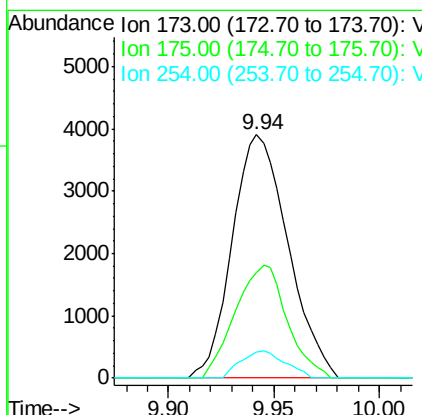
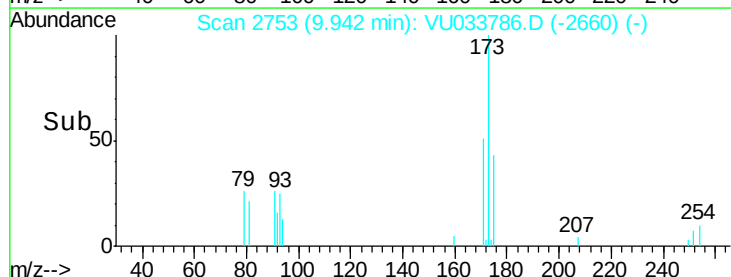
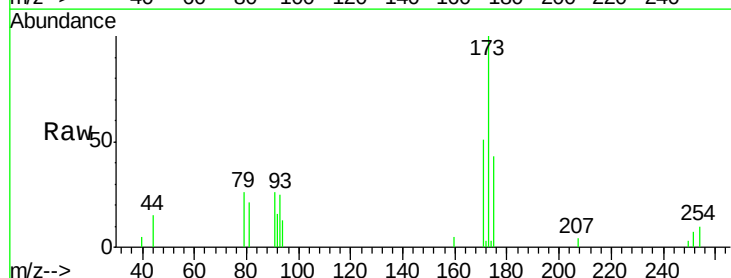
RT: 9.94 min Scan# 2753

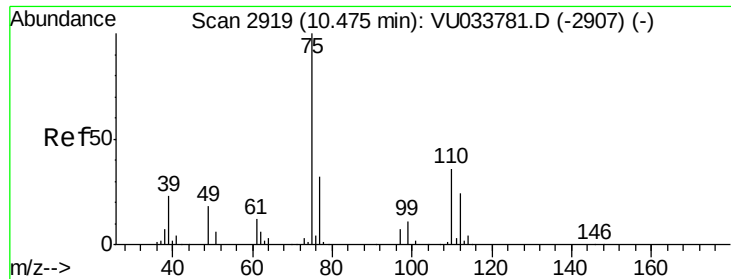
Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion:	173	Resp:	7179
Ion Ratio	Lower	Upper	
173	100		
175	43.1	38.9	58.3
254	8.9	7.4	11.0





#60

1,2,3-Trichloropropane

Concen: 3.370 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

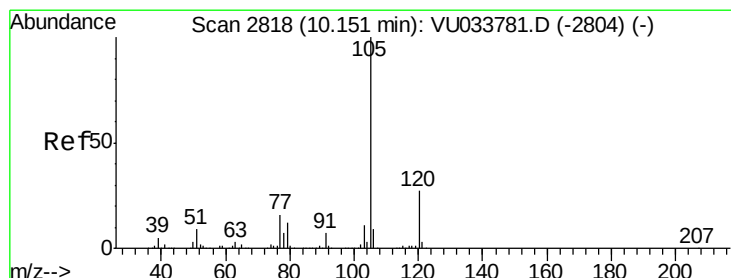
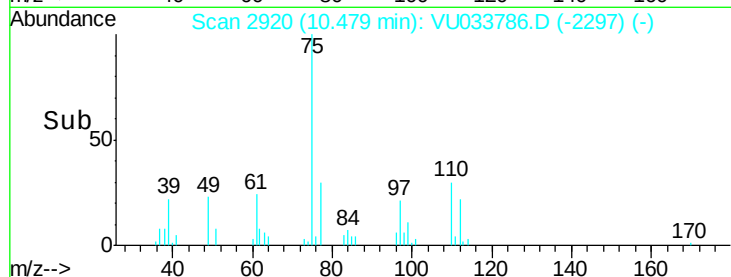
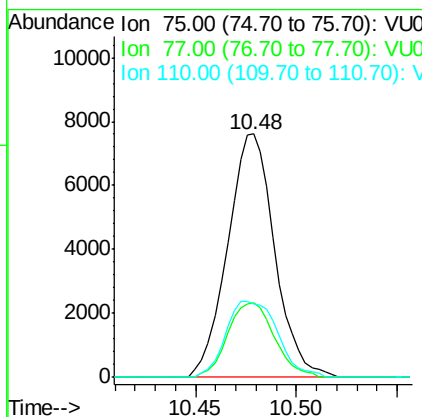
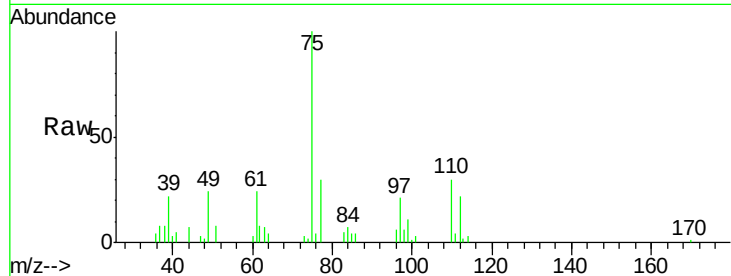
ClientSampled :

MDL07

Tot Ion:	75	Resp:	12414
Ion Ratio	Lower	Upper	
75	100		
77	30.4	25.6	38.4
110	34.5	29.7	44.5

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#61

Isopropylbenzene

Concen: 2.765 ug/L

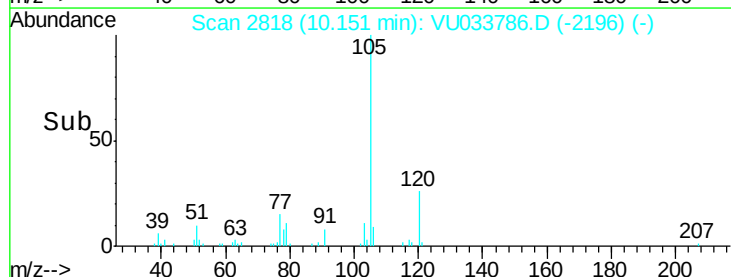
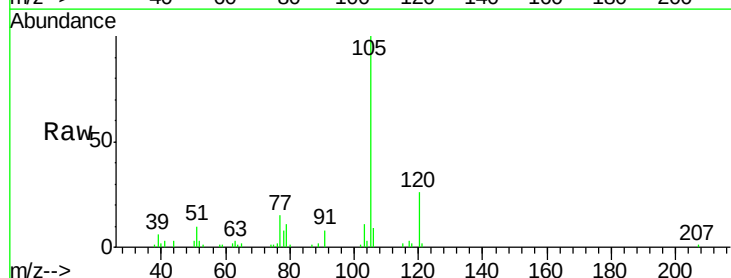
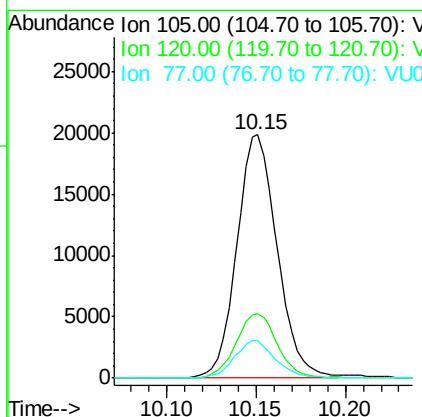
RT: 10.15 min Scan# 2818

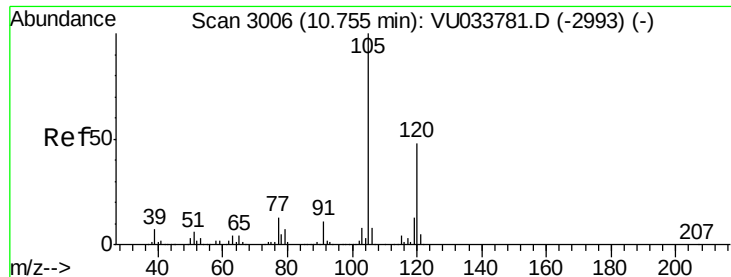
Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion:	105	Resp:	31329
Ion Ratio	Lower	Upper	
105	100		
120	27.0	21.0	31.6
77	15.8	12.8	19.2





#62

1,3,5-Trimethylbenzene

Concen: 2.561 ug/L

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:105 Resp: 23431

Ion Ratio Lower Upper

105 100

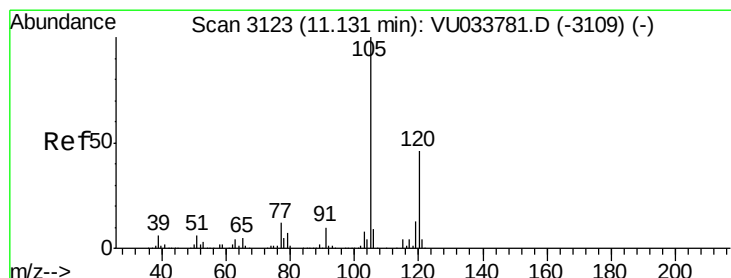
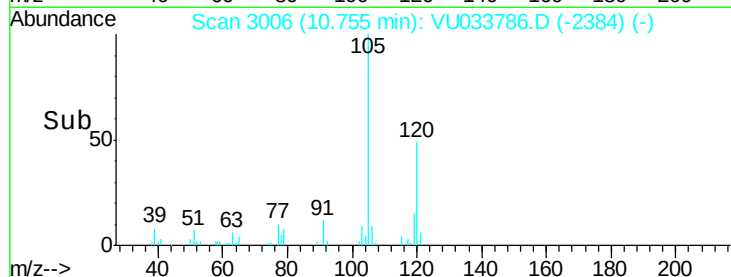
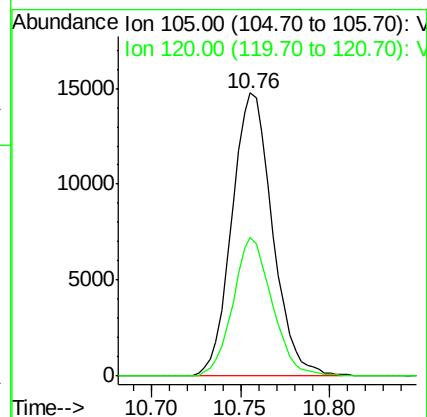
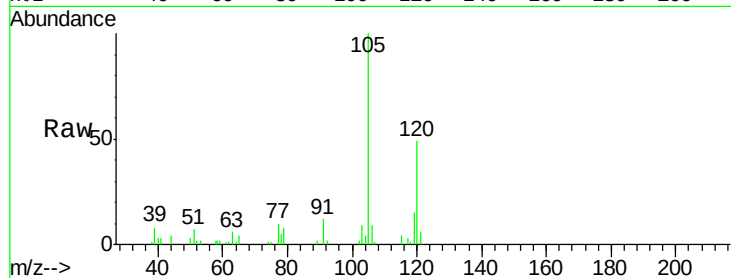
120 47.0 39.4 59.2

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#63

1,2,4-Trimethylbenzene

Concen: 2.426 ug/L

RT: 11.13 min Scan# 3124

Delta R.T. 0.00 min

Lab File: VU033786.D

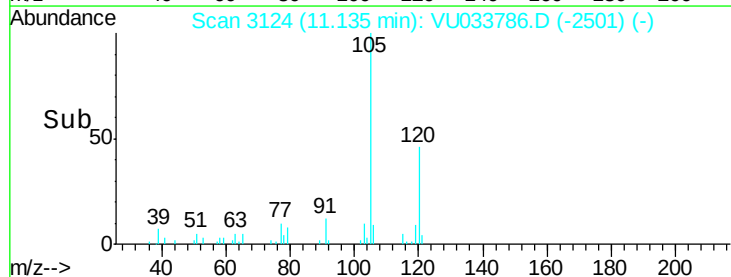
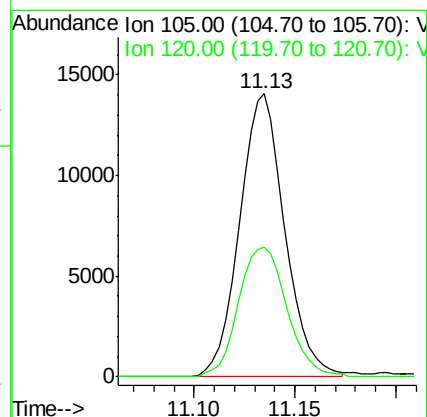
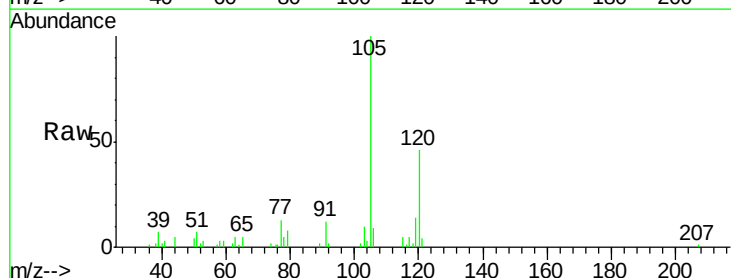
Acq: 13 Aug 2019 17:09

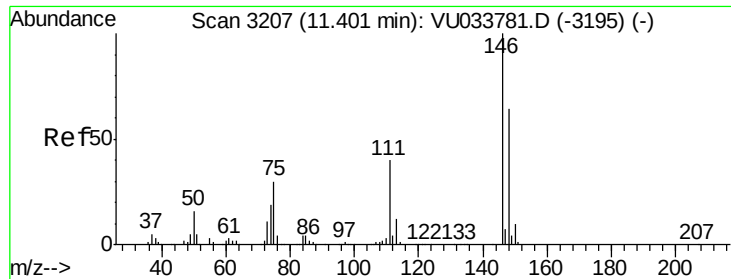
Tgt Ion:105 Resp: 22020

Ion Ratio Lower Upper

105 100

120 49.1 36.6 55.0





#64

1,3-Dichlorobenzene

Concen: 3.086 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

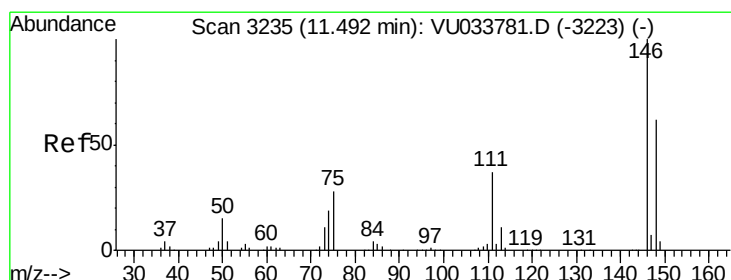
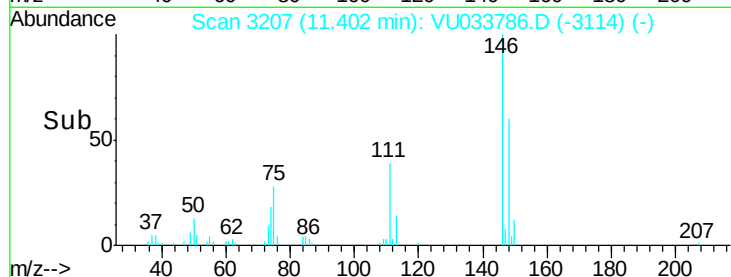
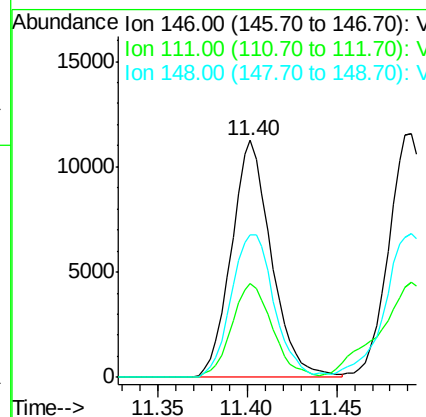
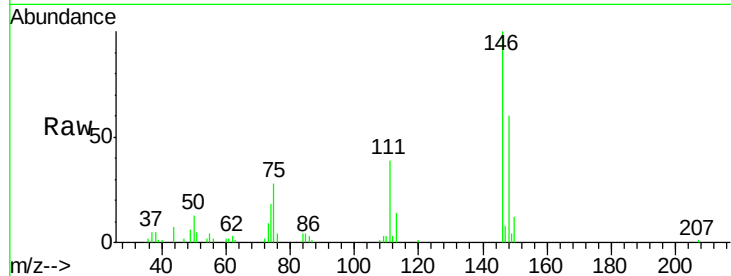
ClientSampled :

MDL07

Tot Ion:	146	Resp:	17547
Ion Ratio	Lower	Upper	
146	100		
111	39.5	27.1	50.3
148	60.1	45.0	83.6

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#65

1,4-Dichlorobenzene

Concen: 3.281 ug/L

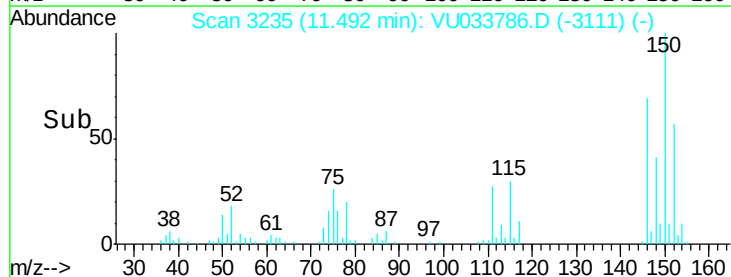
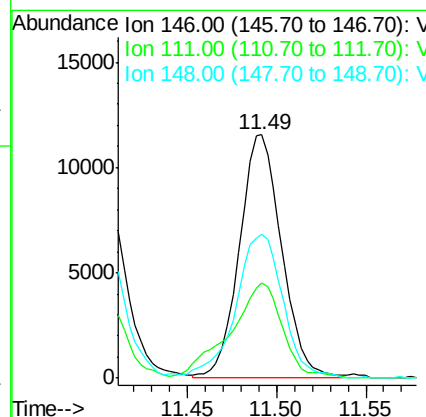
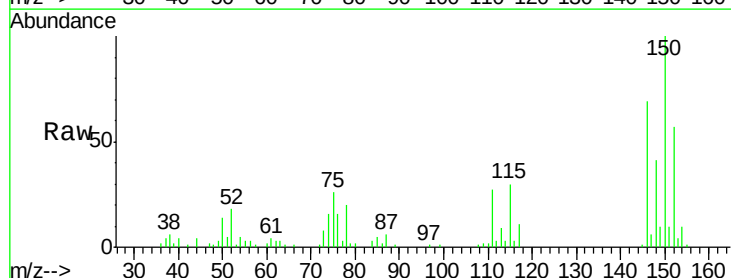
RT: 11.49 min Scan# 3235

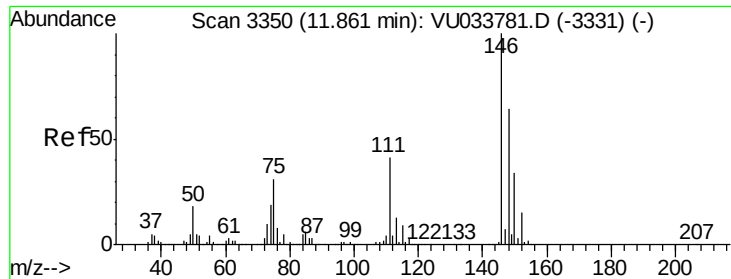
Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion:	146	Resp:	19120
Ion Ratio	Lower	Upper	
146	100		
111	39.3	26.5	49.3
148	59.3	43.9	81.5





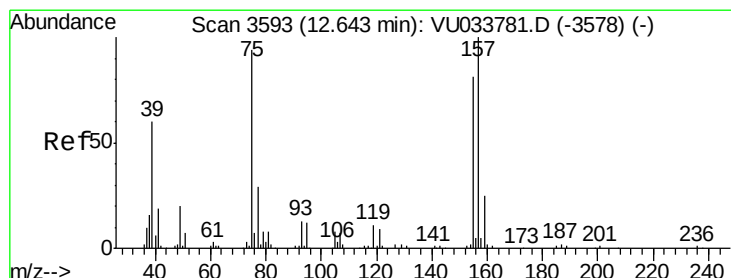
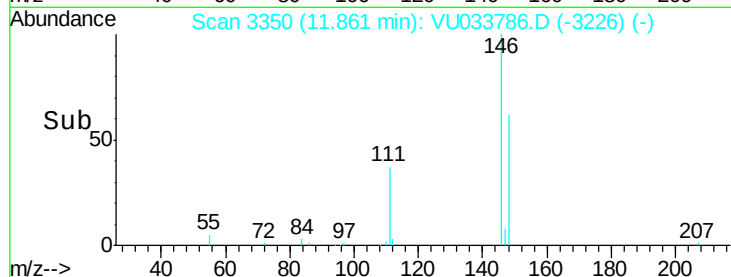
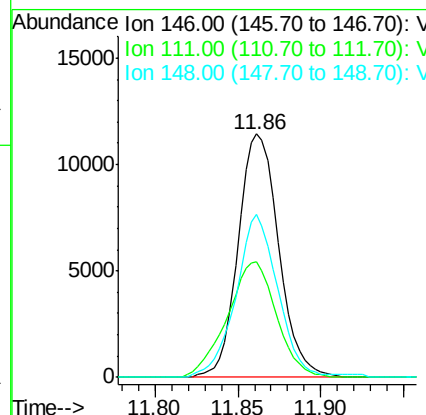
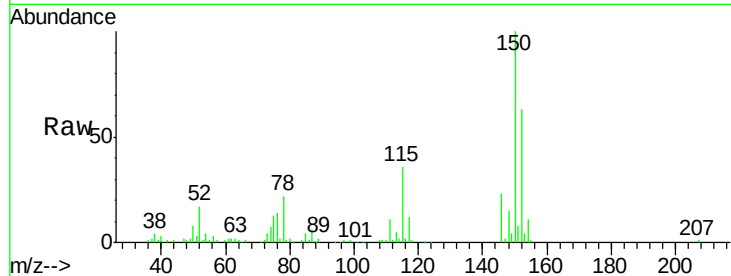
#67
 1,2-Dichlorobenzene
 Concen: 3.369 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.5	33.1	49.7
148	66.7	51.8	77.8

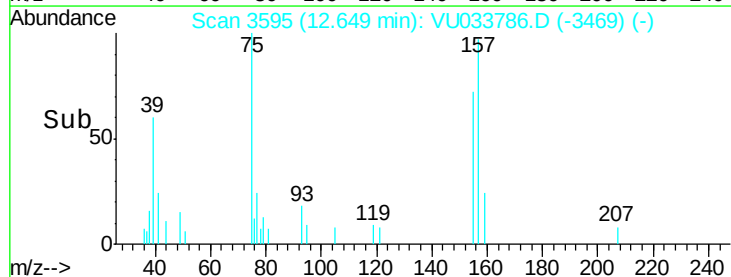
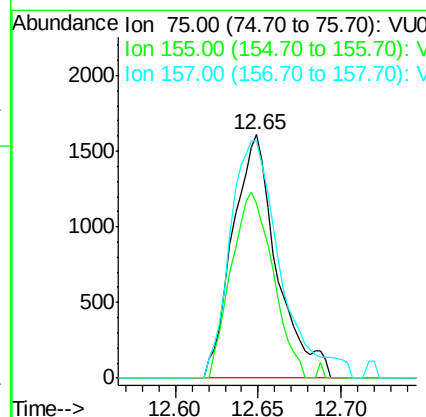
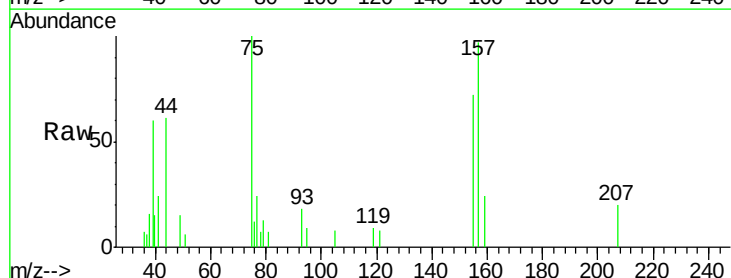
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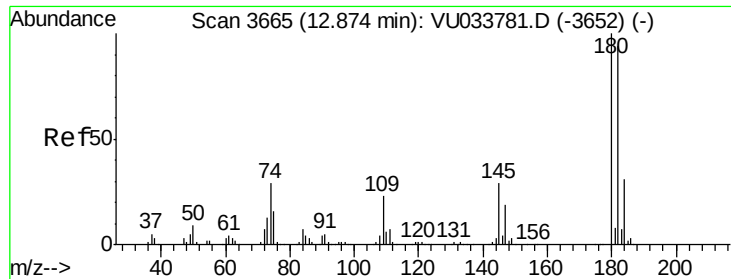
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.884 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. 0.01 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.8	65.9	98.9
157	97.4	86.3	129.5





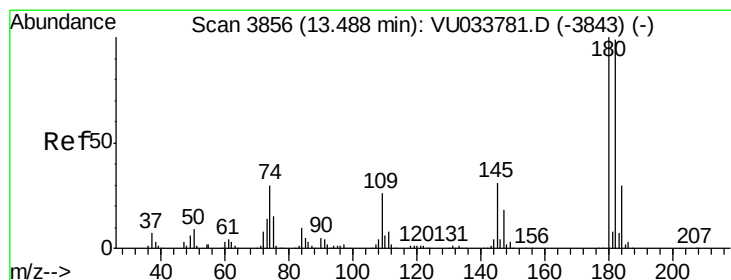
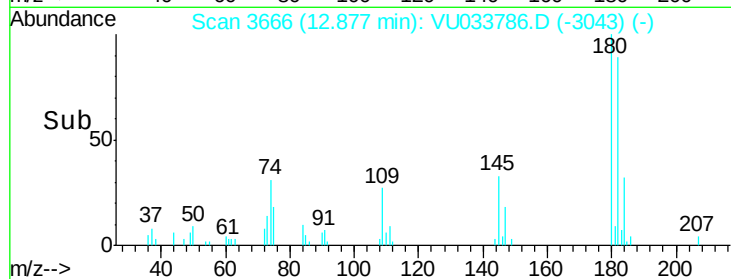
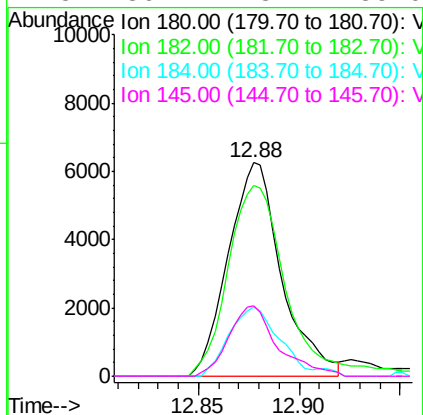
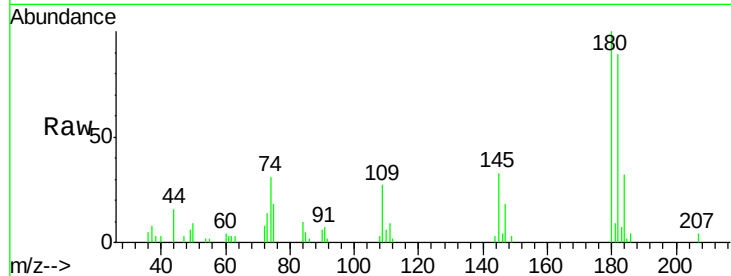
#69
 1,3,5-Trichlorobenzene
 Concen: 2.690 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	180	Resp:	11552
Ion Ratio	Lower	Upper	
180	100		
182	97.9	77.2	115.8
184	30.3	24.5	36.7
145	30.2	23.4	35.0

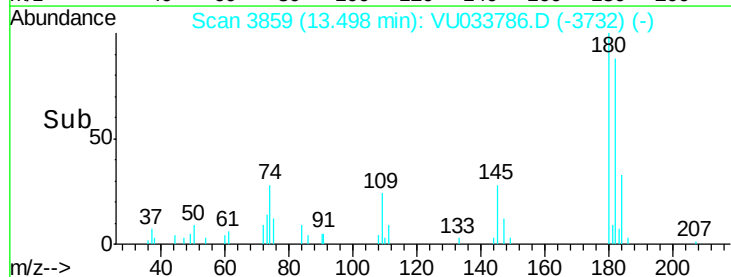
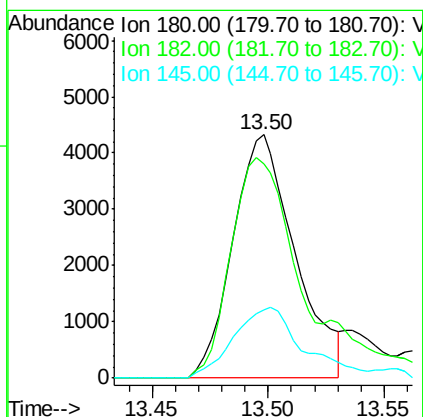
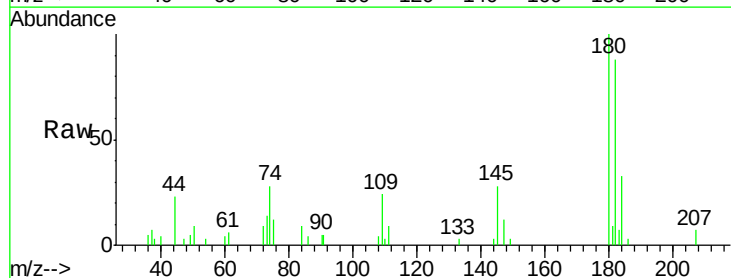
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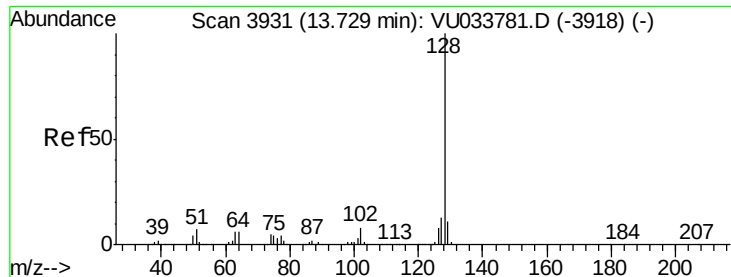
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#70
 1,2,4-trichlorobenzene
 Concen: 2.260 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.01 min
 Lab File: VU033786.D
 Acq: 13 Aug 2019 17:09

Tgt Ion:	180	Resp:	8049
Ion Ratio	Lower	Upper	
180	100		
182	89.4	75.3	112.9
145	32.5	23.3	34.9





#71

Naphthalene

Concen: 1.793 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Instrument :

MSVOA_U

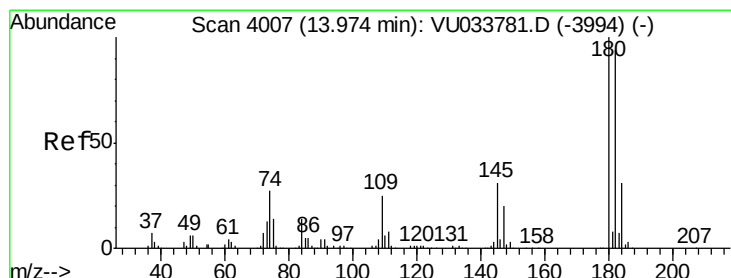
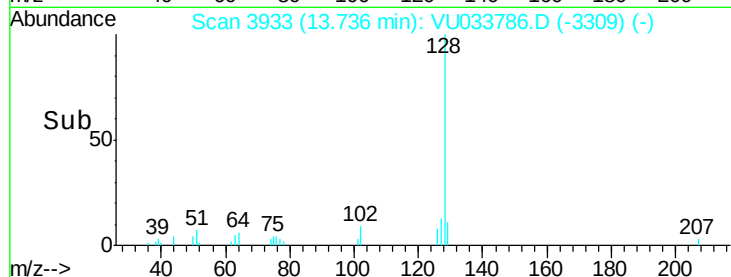
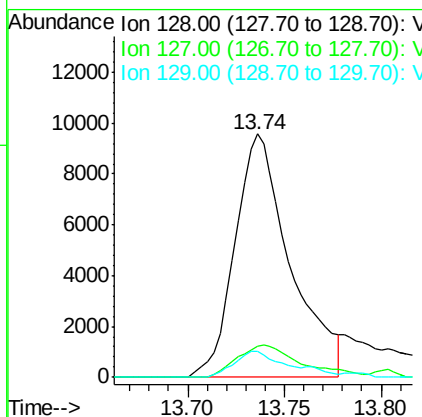
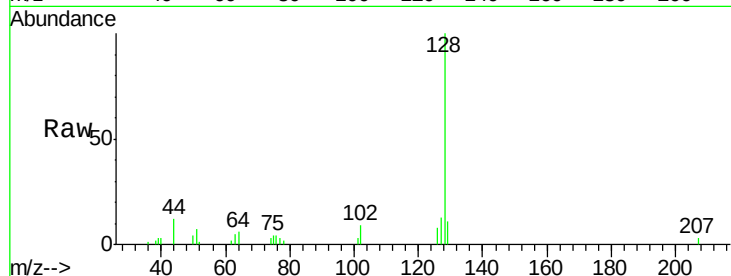
ClientSampleId :

MDL07

Tot Ion:	128	Resp:	19013
Ion Ratio	Lower	Upper	
128	100		
127	15.3	11.0	16.4
129	9.0	8.5	12.7

Manual Integrations
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#72

1,2,3-Trichlorobenzene

Concen: 2.482 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033786.D

Acq: 13 Aug 2019 17:09

Tgt Ion:	180	Resp:	9265
Ion Ratio	Lower	Upper	
180	100		
182	86.4	77.1	115.7
145	28.7	24.6	36.8

