

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073019\
 Data File : VU033484.D
 Acq On : 30 Jul 2019 11:01
 Operator : JC/SP
 Sample : MDL03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 3:14:43 PM

Quant Time: Jul 31 08:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	305279	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	311468	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	153783	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	118285	42.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.34%
7) Chloroethane-d5	1.67	69	102195	44.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.24%
11) 1,1-Dichloroethene-d2	2.26	63	185923	36.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.36%
21) 2-Butanone-d5	4.15	46	147375	92.78	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.78%
24) Chloroform-d	4.62	84	182259	43.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.86%
26) 1,2-Dichloroethane-d4	5.29	65	126082	47.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.22%
32) Benzene-d6	5.32	84	388780	46.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.31	67	120739	46.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.10%
41) Toluene-d8	7.55	98	352353	44.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.66%
43) trans-1,3-Dichloropropene-	7.83	79	56904	44.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.80%
47) 2-Hexanone-d5	8.30	63	105080	97.54	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.54%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	184485	46.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.70%
66) 1,2-Dichlorobenzene-d4	11.85	152	144740	48.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.96%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	8573	2.815 ug/L	99
3) Chloromethane	1.32	50	10426	3.428 ug/L #	36
5) Vinyl chloride	1.40	62	9662	2.778 ug/L #	73
6) Bromomethane	1.62	94	5970	2.456 ug/L	98
8) Chloroethane	1.69	64	5727	2.685 ug/L	97
9) Trichlorofluoromethane	1.87	101	12083	2.649 ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	8434	3.680 ug/L	90
12) 1,1-Dichloroethene	2.27	96	8245	3.692 ug/L #	1
13) Acetone	2.31	43	10507	6.674 ug/L	96
14) Carbon disulfide	2.46	76	18102	2.720 ug/L	98
15) Methyl Acetate	2.60	43	6819	2.701 ug/L	97
16) Methylene chloride	2.68	84	7244	2.952 ug/L	91
17) trans-1,2-Dichloroethene	2.96	96	5806	2.617 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	16312	2.492 ug/L	99
19) 1,1-Dichloroethane	3.42	63	11299	2.705 ug/L	93
20) cis-1,2-Dichloroethene	4.20	96	6565	2.681 ug/L	83
22) 2-Butanone	4.25	43	9540	5.100 ug/L	75

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

23) Bromochloromethane	4.53	128	3466	2.665	ug/L	87
25) Chloroform	4.65	83	22595	5.102	ug/L	97
27) 1,2-Dichloroethane	5.39	62	9867	2.869	ug/L #	92
29) Cyclohexane	4.97	56	7838m	2.291	ug/L	
30) 1,1,1-Trichloroethane	4.89	97	9842	2.654	ug/L	99
31) Carbon tetrachloride	5.12	117	8309	2.517	ug/L	92
33) Benzene	5.37	78	25262	2.714	ug/L	100
34) Trichloroethene	6.17	95	6653	2.743	ug/L	96
35) Methylcyclohexane	6.40	83	9048	2.453	ug/L	99
37) 1,2-Dichloropropane	6.41	63	6755	2.698	ug/L #	97
38) Bromodichloromethane	6.74	83	8873	2.692	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	8776	2.351	ug/L #	81
40) 4-Methyl-2-pentanone	7.45	43	16733	5.071	ug/L	98
42) Toluene	7.62	91	28058	2.801	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	9198m	2.714	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	6363	2.665	ug/L	98
46) Tetrachloroethene	8.21	164	5221	2.645	ug/L	96
48) 2-Hexanone	8.35	43	18384	6.839	ug/L #	90
49) Dibromochloromethane	8.46	129	7220	2.700	ug/L	97
50) 1,2-Dibromoethane	8.57	107	7025	2.712	ug/L	95
51) Chlorobenzene	9.11	112	19908	2.991	ug/L	98
52) Ethylbenzene	9.24	91	28211	2.598	ug/L	99
53) m,p-Xylene	9.36	106	9479	2.321	ug/L	96
54) o-xylene	9.76	106	9622	2.403	ug/L	95
55) Styrene	9.78	104	15437	2.272	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.44	83	12734	3.000	ug/L #	96
59) Bromoform	9.95	173	5324	2.768	ug/L	98
60) 1,2,3-Trichloropropane	10.48	75	9153	2.921	ug/L	98
61) Isopropylbenzene	10.15	105	23942	2.431	ug/L	98
62) 1,3,5-Trimethylbenzene	10.76	105	22004	2.757	ug/L	98
63) 1,2,4-Trimethylbenzene	11.13	105	18642	2.355	ug/L	97
64) 1,3-Dichlorobenzene	11.40	146	14010	2.790	ug/L	92
65) 1,4-Dichlorobenzene	11.49	146	14037	2.706	ug/L	93
67) 1,2-Dichlorobenzene	11.86	146	14882	2.958	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.64	75	3011	3.457	ug/L	84
69) 1,3,5-Trichlorobenzene	12.88	180	10283	2.697	ug/L	98
70) 1,2,4-trichlorobenzene	13.49	180	7570	2.379	ug/L	96
71) Naphthalene	13.74	128	18695	2.032	ug/L	98
72) 1,2,3-Trichlorobenzene	13.98	180	8536	2.561	ug/L	96

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

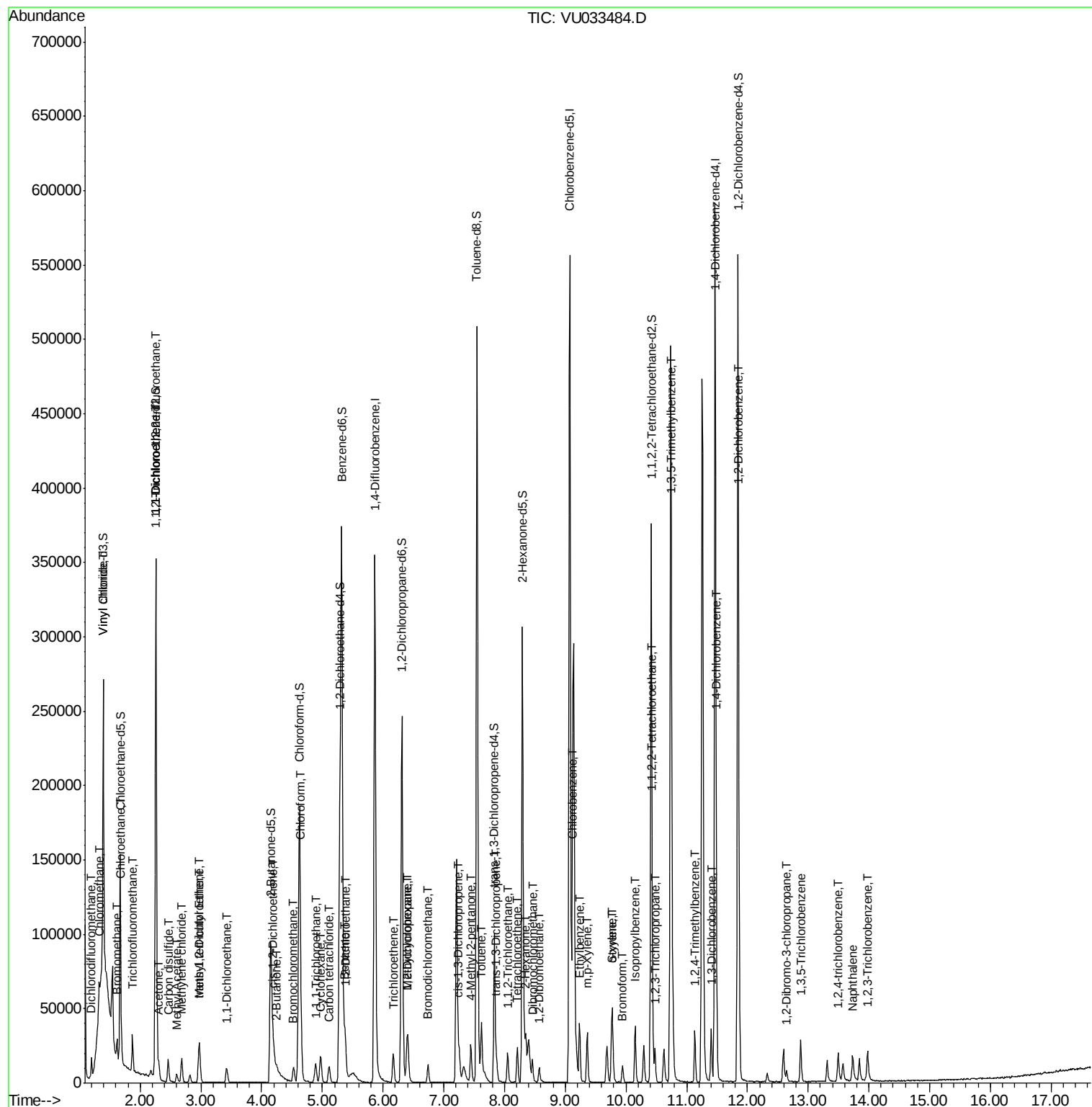
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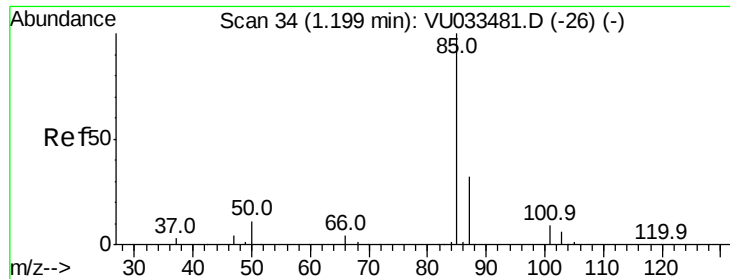
Instrument :
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#2

Dichlorodifluoromethane

Concen: 2.815 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 8573

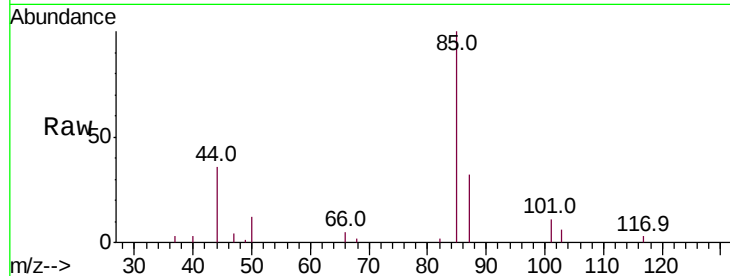
Ion Ratio Lower Upper

85 100

87 31.3 25.7 38.5

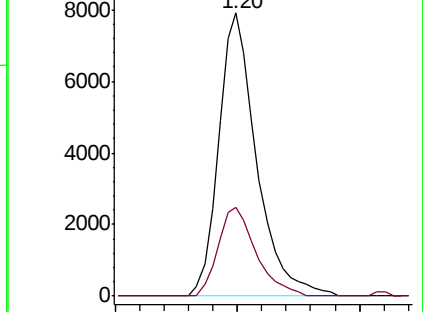
Manual Integrations
APPROVED

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8/1/2019 3:14:43 PM

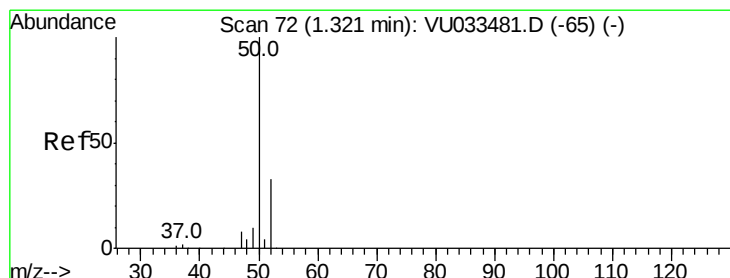
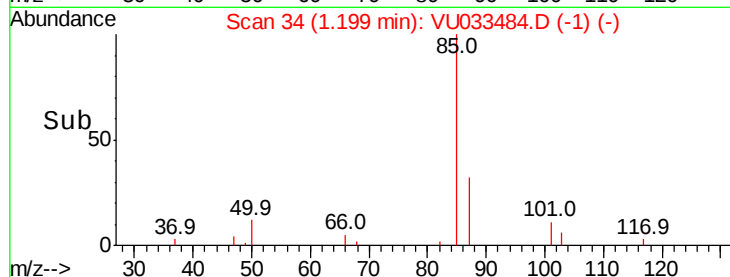


Abundance Ion 85.00 (84.70 to 85.70): VU033484.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033484.D (-26) (-)



Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 3.428 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU033484.D

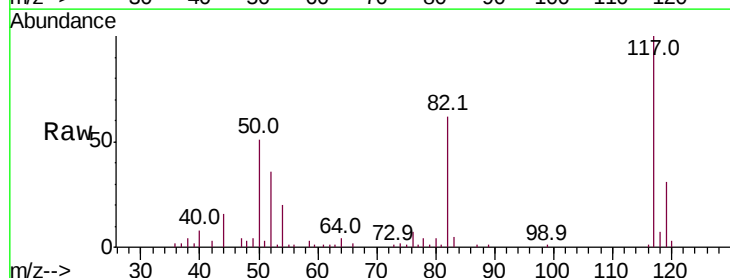
Acq: 30 Jul 2019 11:01

Tgt Ion: 50 Resp: 10426

Ion Ratio Lower Upper

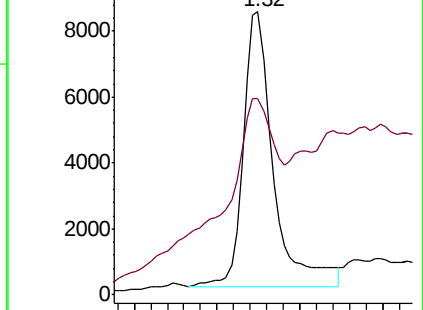
50 100

52 69.5 23.3 43.3#

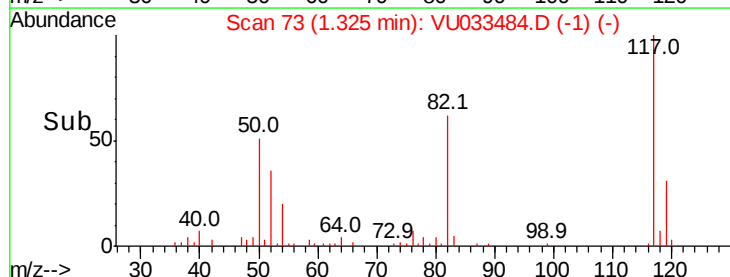


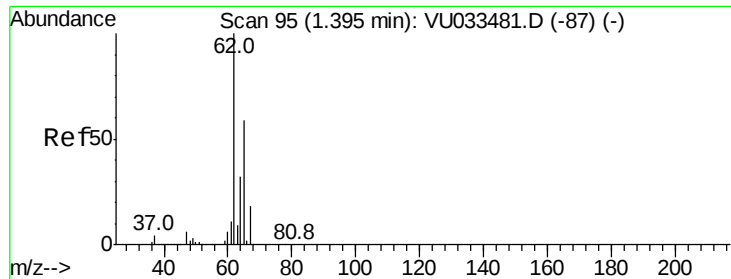
Abundance Ion 50.00 (49.70 to 50.70): VU033484.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU033484.D (-65) (-)



Time--> 1.25 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 2.778 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 9662

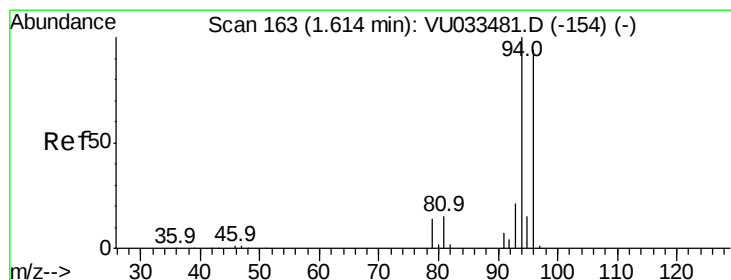
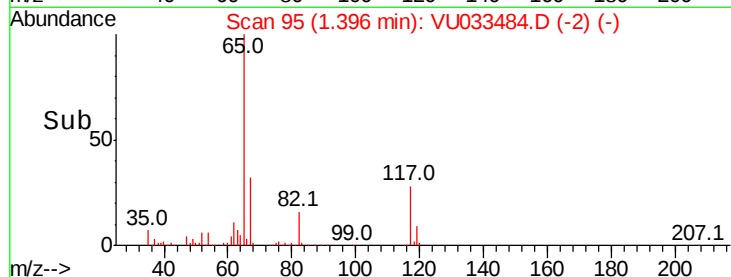
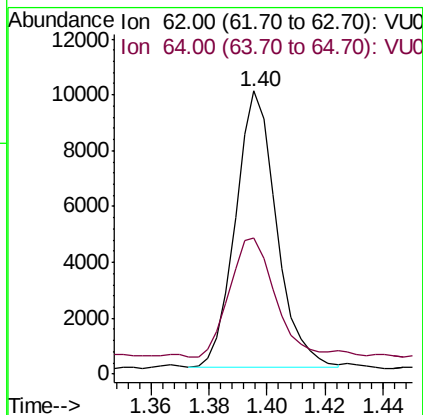
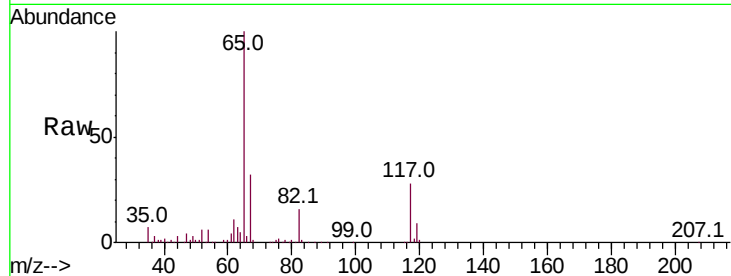
Ion Ratio Lower Upper

62 100

64 48.3 23.0 42.6#

Manual Integrations
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#6

Bromomethane

Concen: 2.456 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.01 min

Lab File: VU033484.D

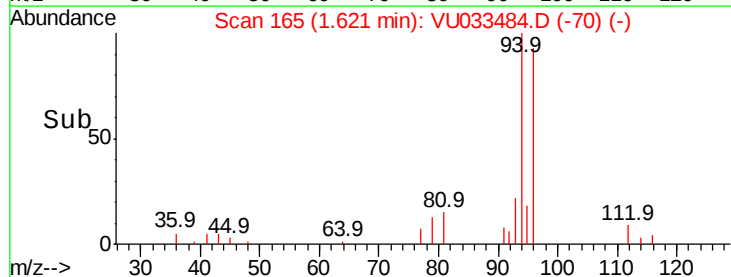
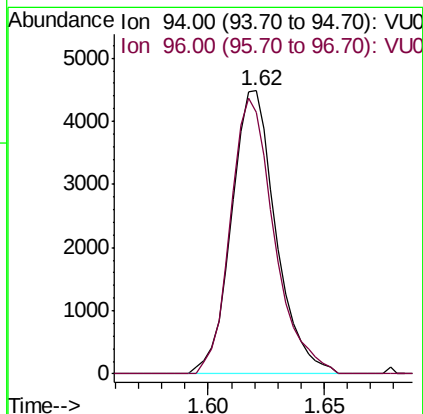
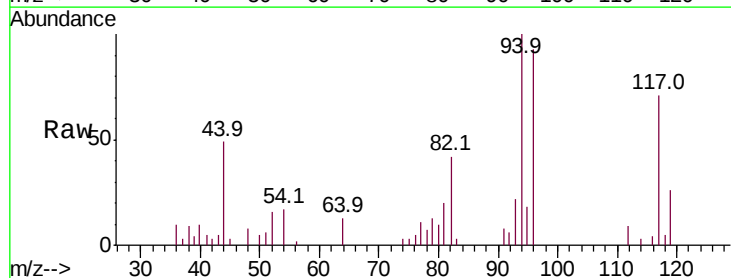
Acq: 30 Jul 2019 11:01

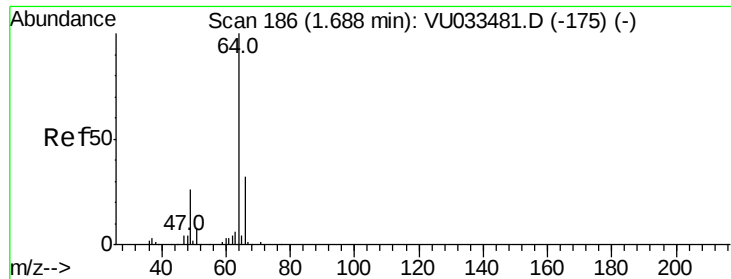
Tgt Ion: 94 Resp: 5970

Ion Ratio Lower Upper

94 100

96 92.6 66.2 123.0





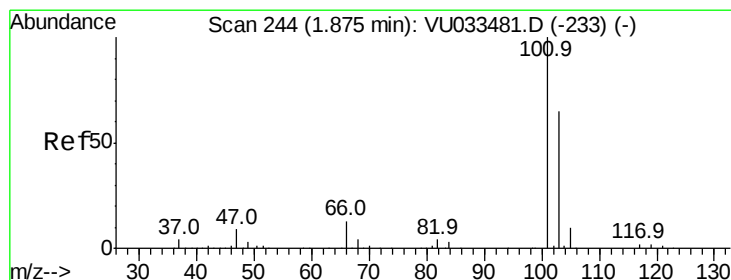
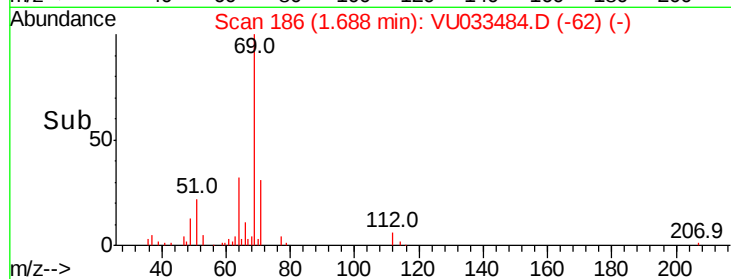
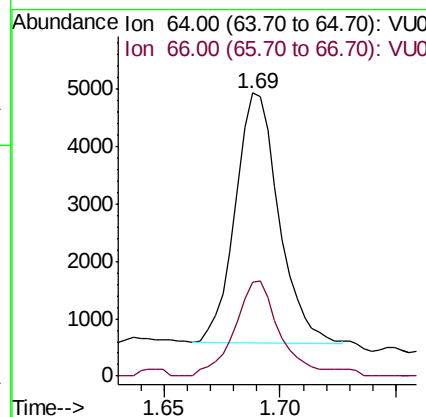
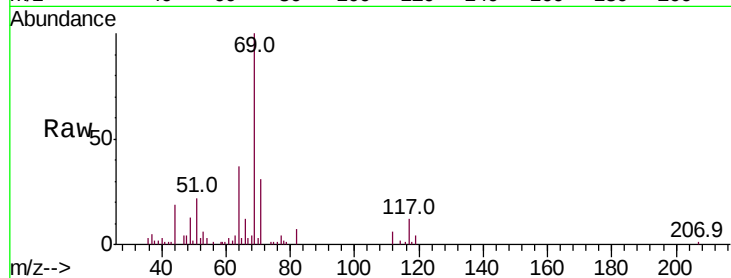
#8
Chloroethane
Concen: 2.685 ug/L
RT: 1.69 min Scan# 186
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 64 Resp: 5727
Ion Ratio Lower Upper
64 100
66 33.3 22.1 41.1

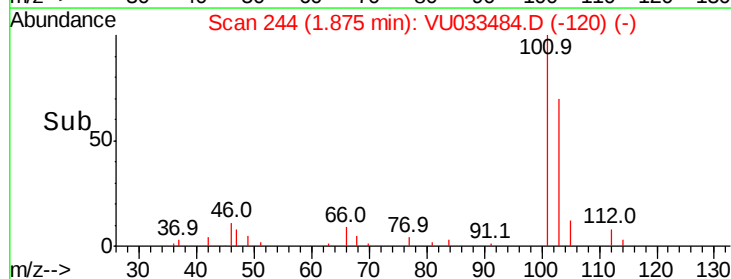
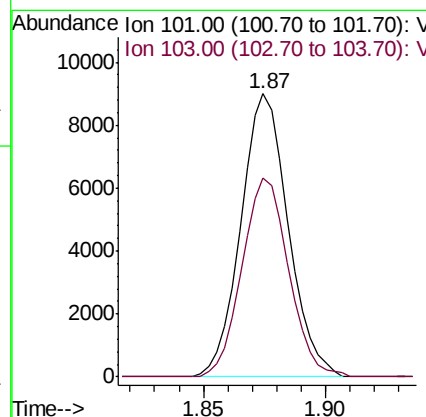
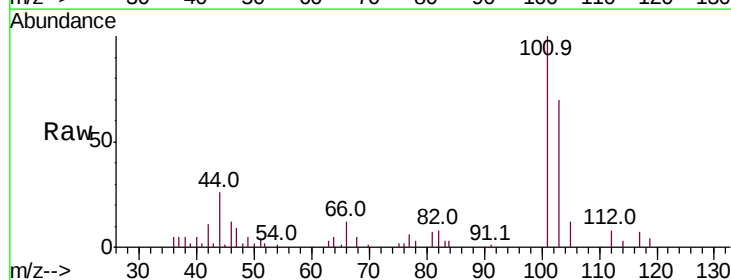
Manual Integrations
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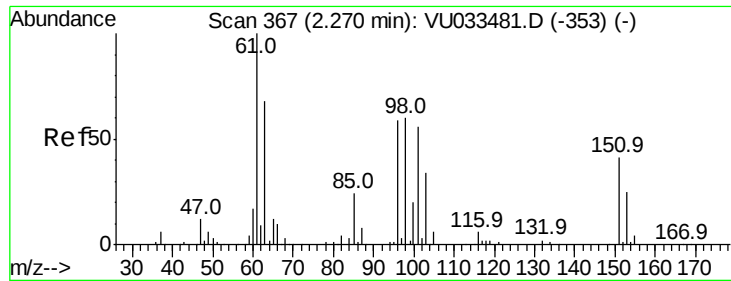
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#9
Trichlorofluoromethane
Concen: 2.649 ug/L
RT: 1.87 min Scan# 244
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion: 101 Resp: 12083
Ion Ratio Lower Upper
101 100
103 69.4 51.2 76.8





#10

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

Concen: 3.680 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

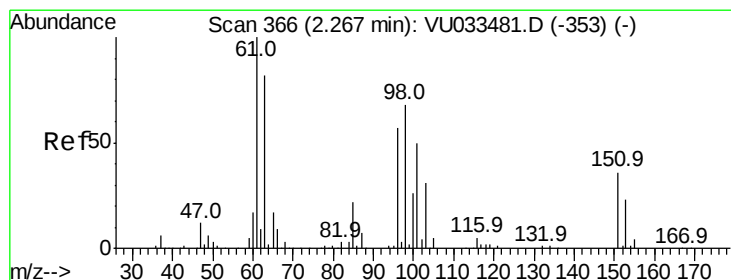
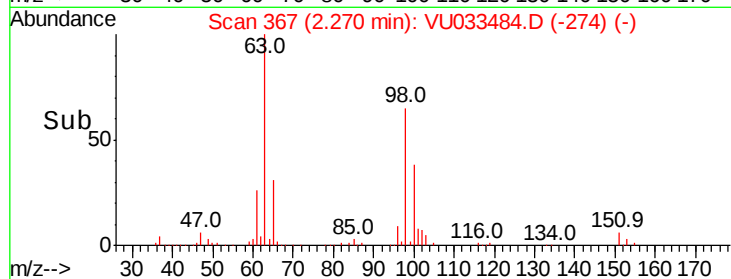
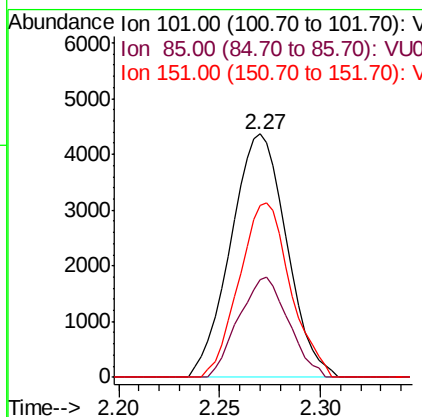
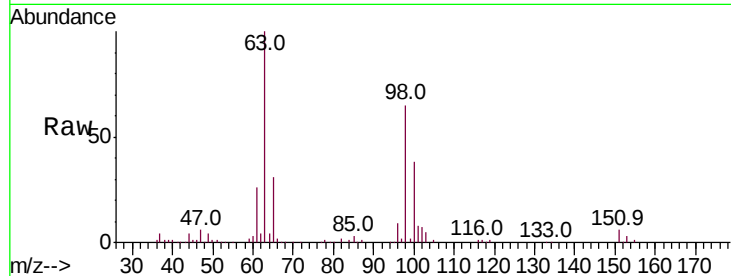
ClientSampled :

MDL03

Tot Ion:	101	Resp:	8434
Ion Ratio	Lower	Upper	
101	100		
85	36.7	35.8	53.8
151	65.9	58.6	87.8

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#12

1,1-Dichloroethene

Concen: 3.692 ug/L

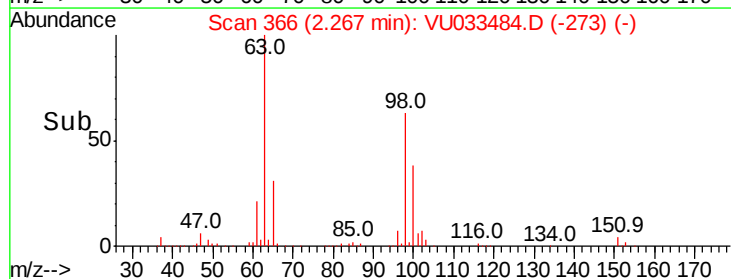
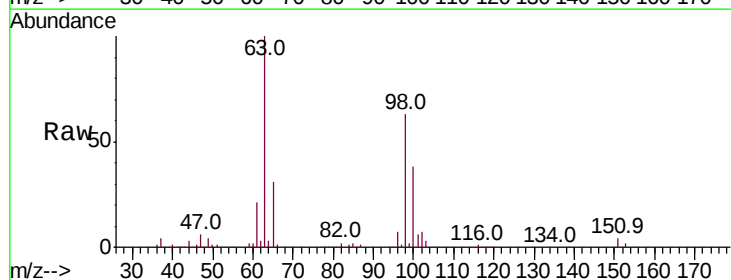
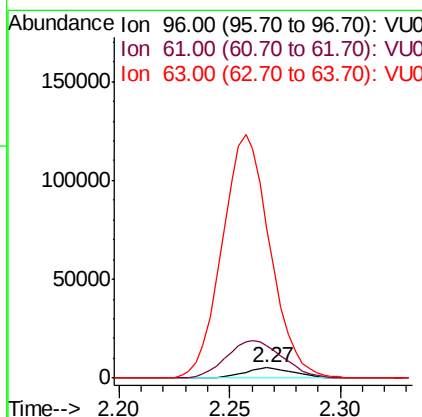
RT: 2.27 min Scan# 366

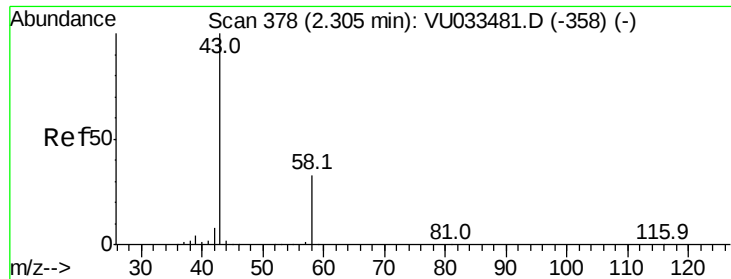
Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Tgt Ion:	96	Resp:	8245
Ion Ratio	Lower	Upper	
96	100		
61	319.7	124.1	230.5#
63	1495.5	101.8	189.2#





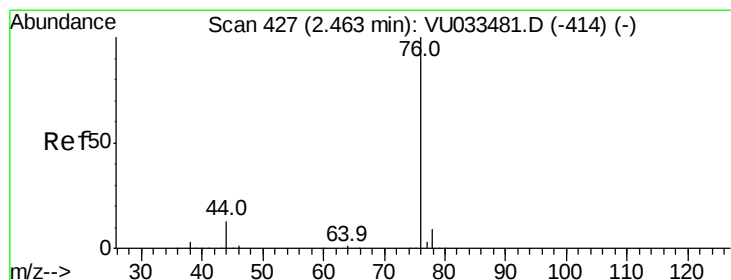
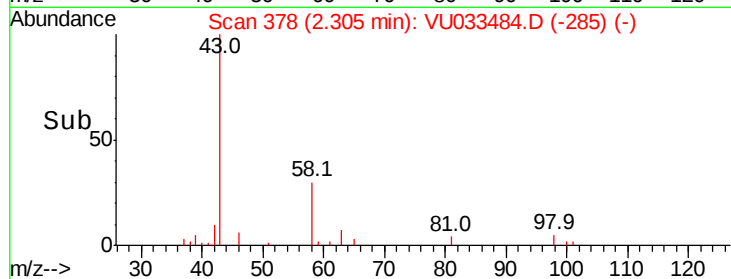
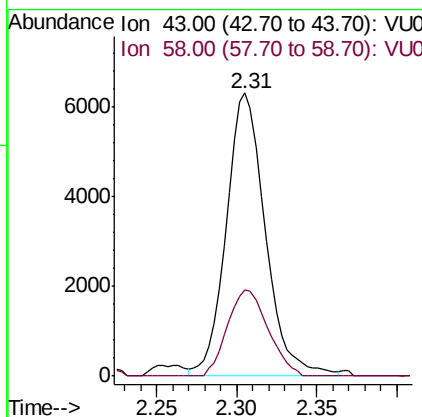
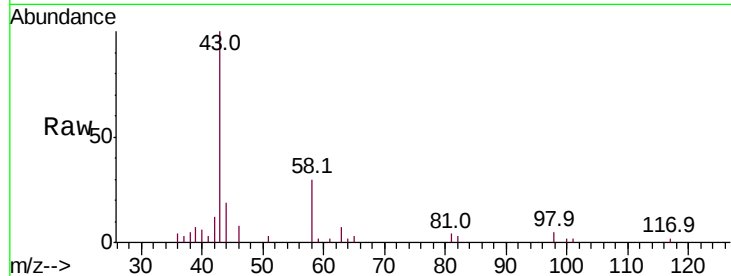
#13
Acetone
Concen: 6.674 ug/L
RT: 2.31 min Scan# 378
Delta R.T. 0.00 min
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Instrument :
MSVOA_U
ClientSampleId :
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Tot Ion: 43 Resp: 10507
Ion Ratio Lower Upper
43 100
58 31.5 0.0 67.4

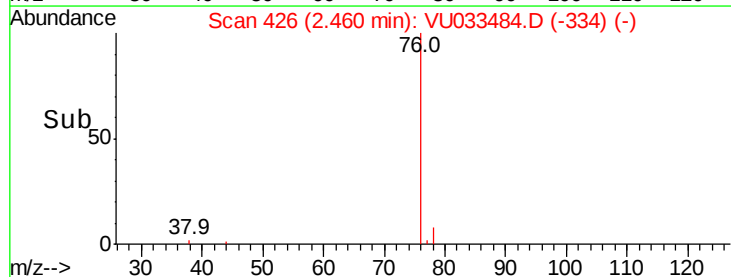
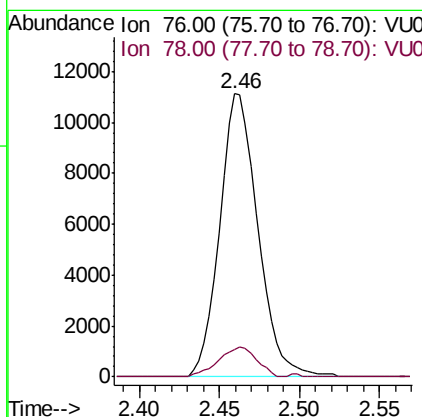
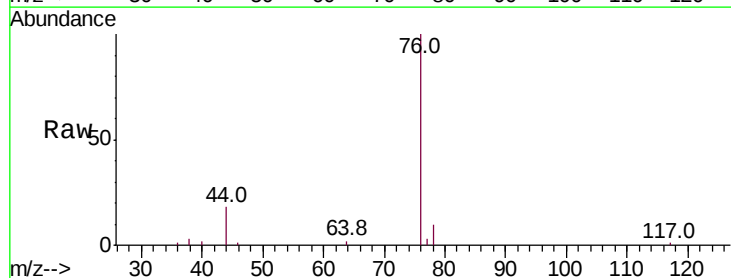
Manual Integrations
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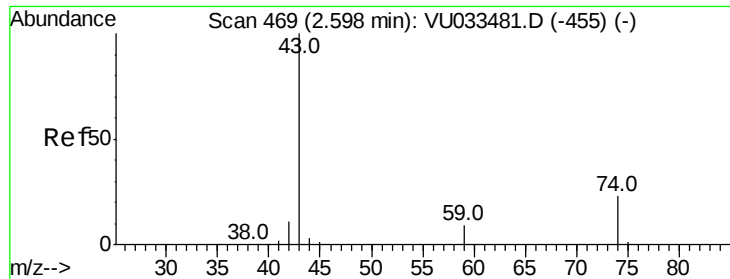
MMdadoda
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#14
Carbon disulfide
Concen: 2.720 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion: 76 Resp: 18102
Ion Ratio Lower Upper
76 100
78 9.7 7.2 10.8





#15

Methyl Acetate

Concen: 2.701 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 6819

Ion Ratio Lower Upper

43 100

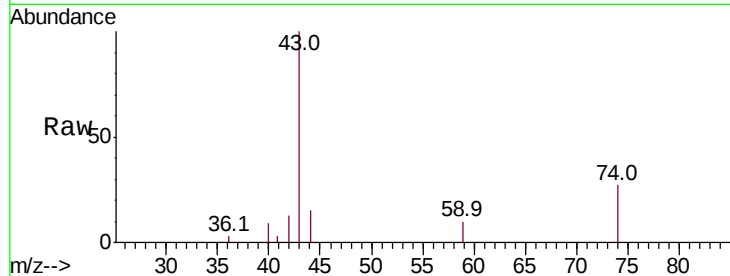
74 23.9 20.5 30.7

Manual Integrations

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MMdadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU033484.D (-455) (-)

Ion 74.00 (73.70 to 74.70): VU033484.D (-455) (-)

2.60

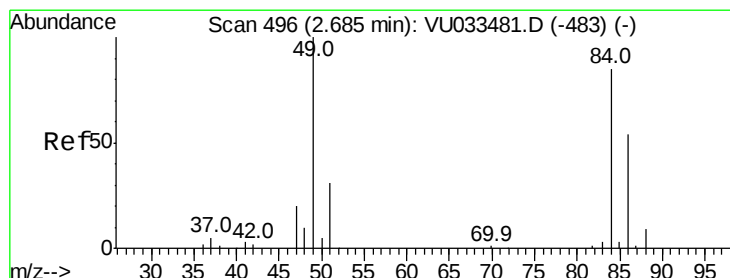
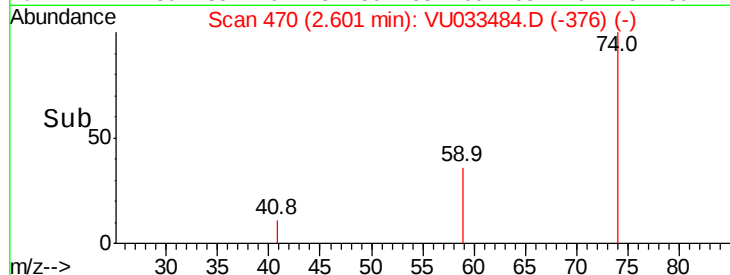
3000

2000

1000

0

Time-->



#16

Methylene chloride

Concen: 2.952 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

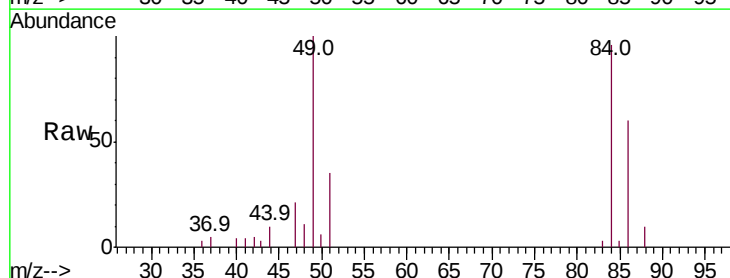
Tgt Ion: 84 Resp: 7244

Ion Ratio Lower Upper

84 100

86 62.4 44.2 82.0

49 103.6 82.3 152.8



Abundance Ion 84.00 (83.70 to 84.70): VU033484.D (-483) (-)

Ion 86.00 (85.70 to 86.70): VU033484.D (-483) (-)

Ion 49.00 (48.70 to 49.70): VU033484.D (-483) (-)

2.68

6000

5000

4000

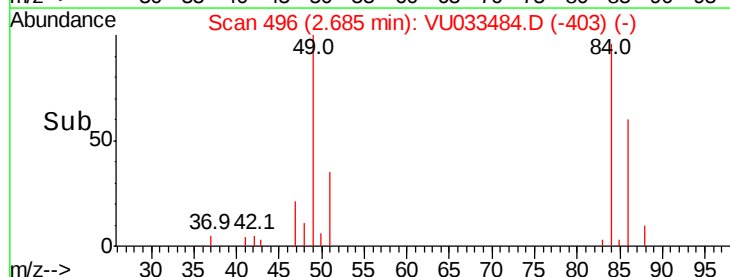
3000

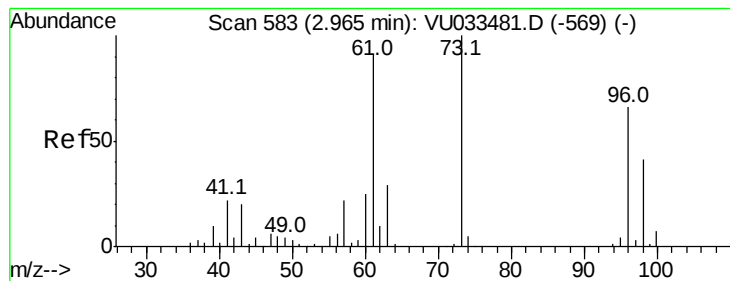
2000

1000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 2.617 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 96 Resp: 5806

Ion Ratio Lower Upper

96 100

61 153.8 100.3 186.3

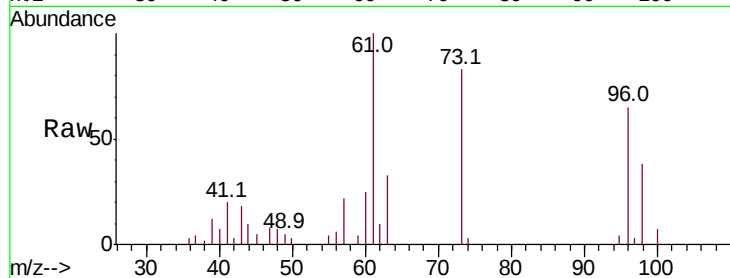
98 58.0 45.1 83.9

Manual Integrations

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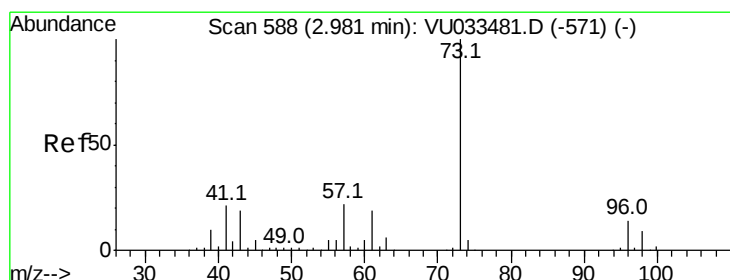
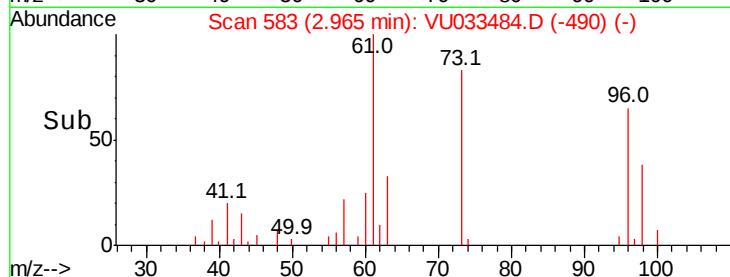
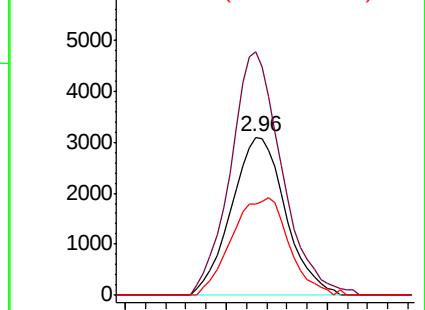
8/1/2019 3:14:43 PM



Abundance Ion 96.00 (95.70 to 96.70): VU033481.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU033481.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU033481.D (-569) (-)



#18

Methyl tert-butyl Ether

Concen: 2.492 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

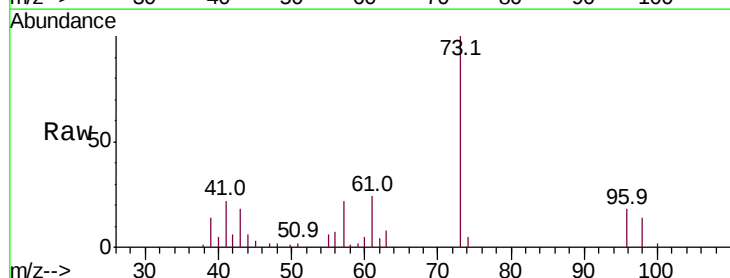
Tgt Ion: 73 Resp: 16312

Ion Ratio Lower Upper

73 100

43 19.9 15.3 22.9

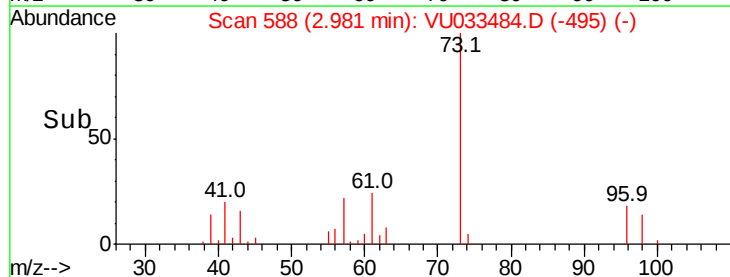
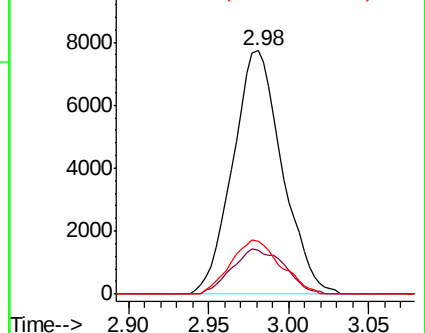
57 22.5 17.7 26.5

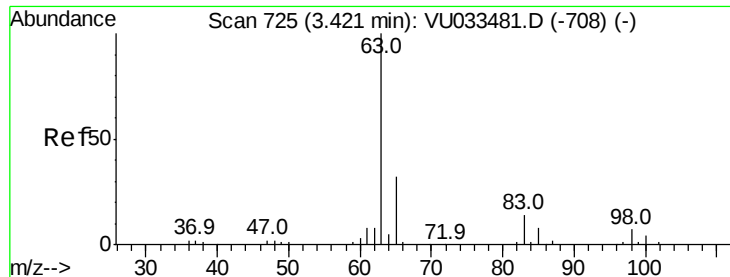


Abundance Ion 73.00 (72.70 to 73.70): VU033481.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033481.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033481.D (-571) (-)





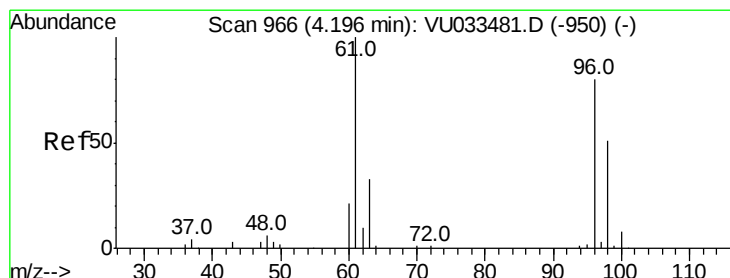
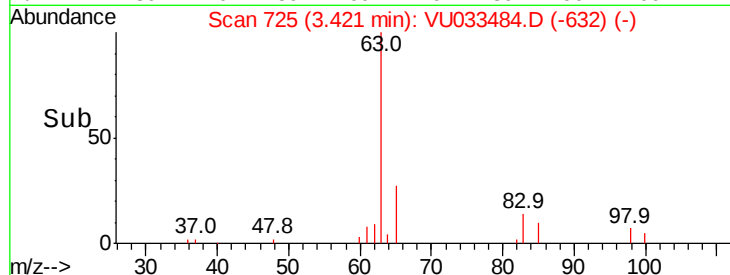
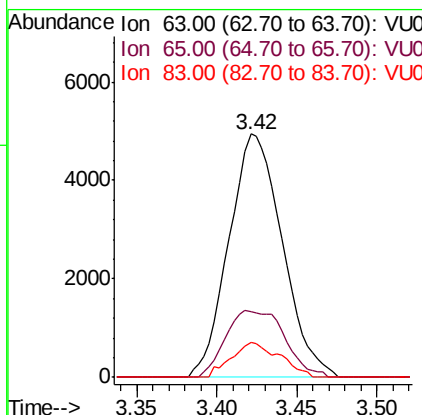
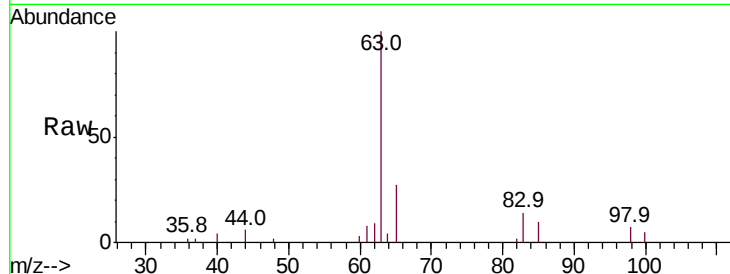
#19
 1,1-Dichloroethane
 Concen: 2.705 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	63	Resp:	11299
Ion	Ratio	Lower	Upper
63	100		
65	27.2	22.7	42.1
83	14.2	9.4	17.6

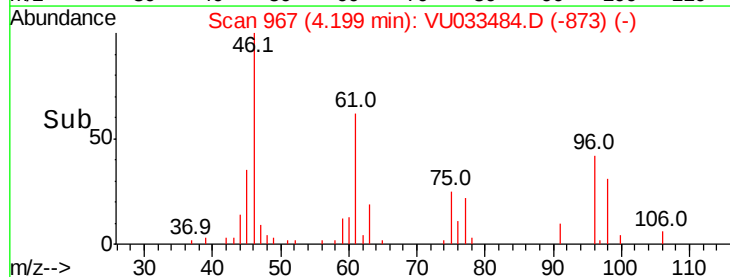
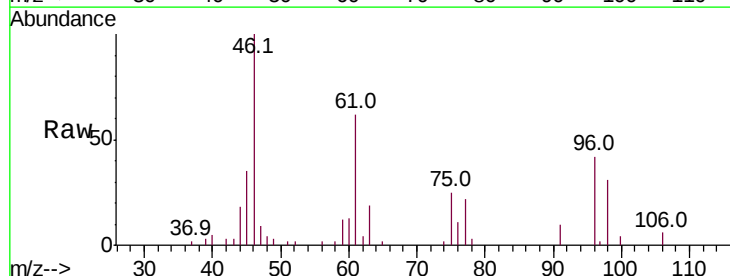
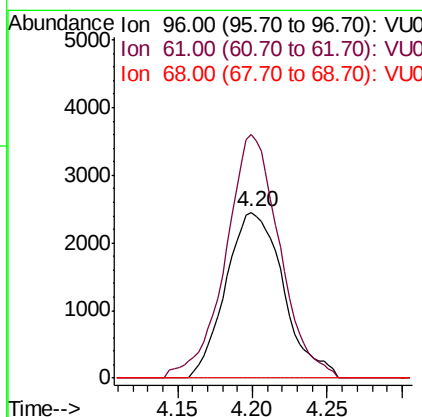
Manual Integrations
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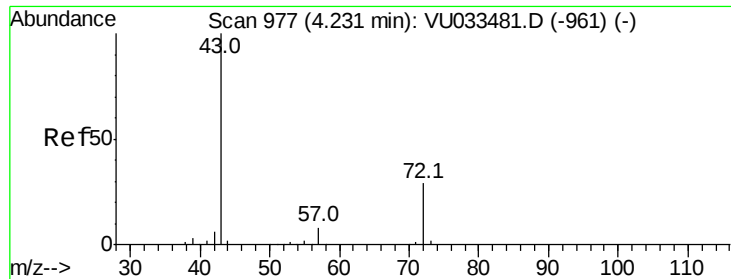
MMDadoda
 8/1/2019 3:14:43 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.681 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Tgt Ion:	96	Resp:	6565
Ion	Ratio	Lower	Upper
96	100		
61	146.6	88.9	165.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.100 ug/L

RT: 4.25 min Scan# 983

Delta R.T. 0.02 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 9540

Ion Ratio Lower Upper

43 100

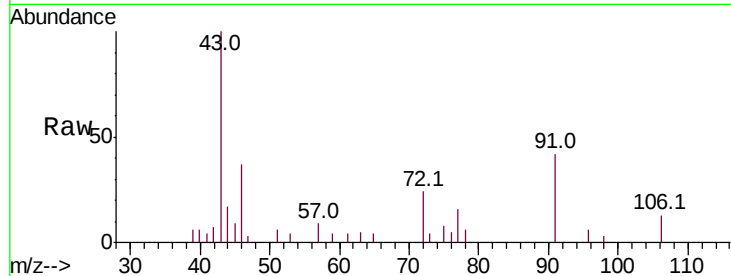
72 14.8 14.1 42.3

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MMdadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU033484.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU033484.D (-961) (-)

4.25

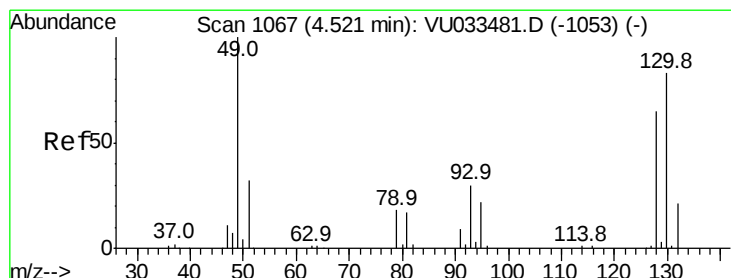
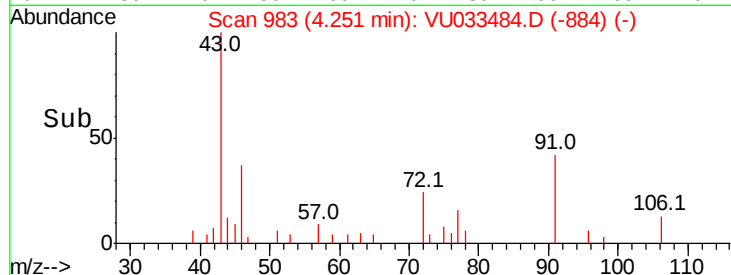
3000

2000

1000

0

Time-->



#23

Bromochloromethane

Concen: 2.665 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. 0.01 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Tgt Ion:128 Resp: 3466

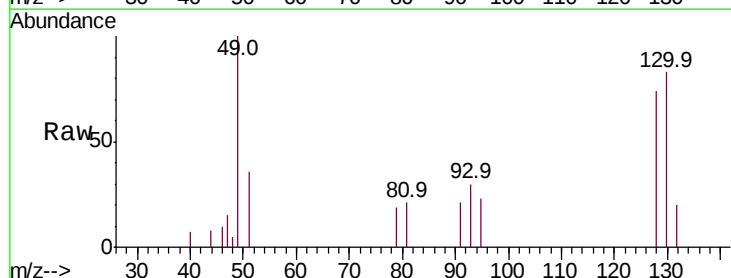
Ion Ratio Lower Upper

128 100

49 135.9 108.0 200.6

130 112.4 92.9 172.5

51 49.5 40.2 60.4



Abundance Ion 128.00 (127.70 to 128.70): VU033484.D (-1053) (-)

Ion 49.00 (48.70 to 49.70): VU033484.D (-1053) (-)

Ion 130.00 (129.70 to 130.70): VU033484.D (-1053) (-)

Ion 51.00 (50.70 to 51.70): VU033484.D (-1053) (-)

20000

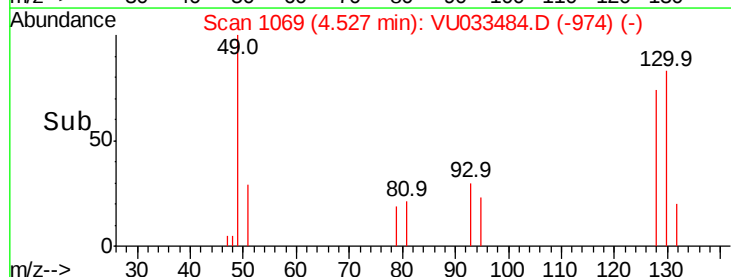
15000

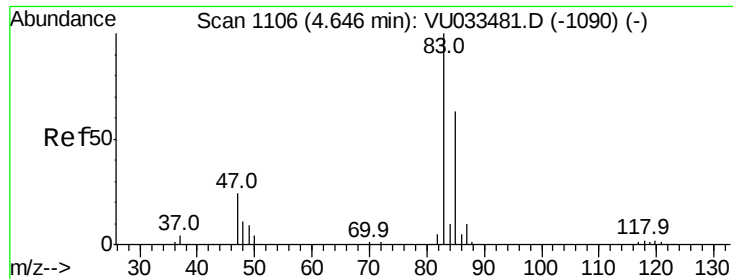
10000

5000

0

Time-->





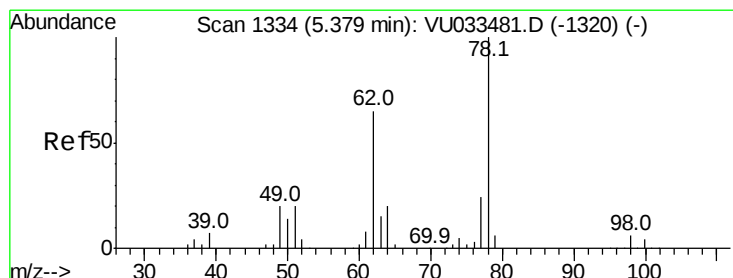
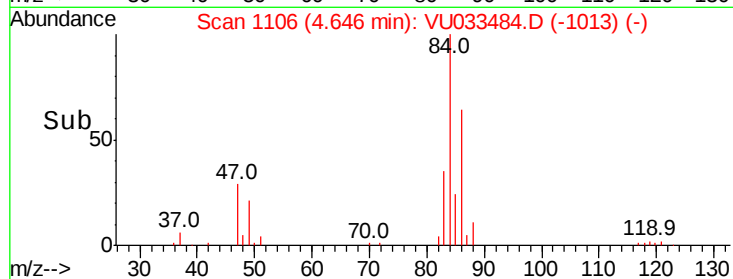
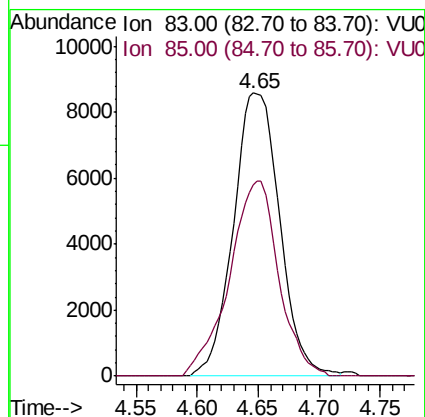
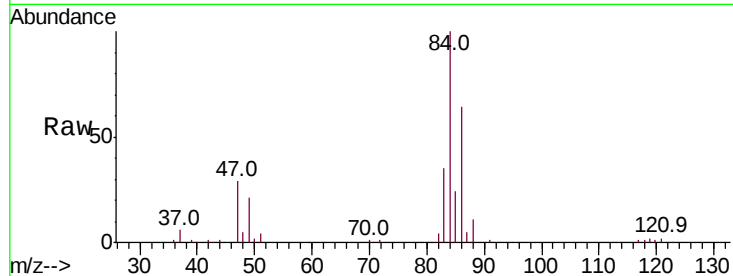
#25
Chloroform
Concen: 5.102 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion: 83 Resp: 22595
Ion Ratio Lower Upper
83 100
85 67.4 45.6 84.8

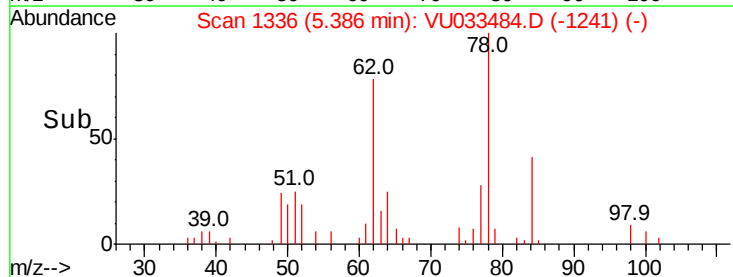
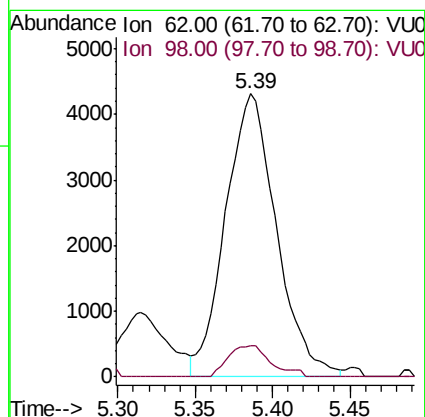
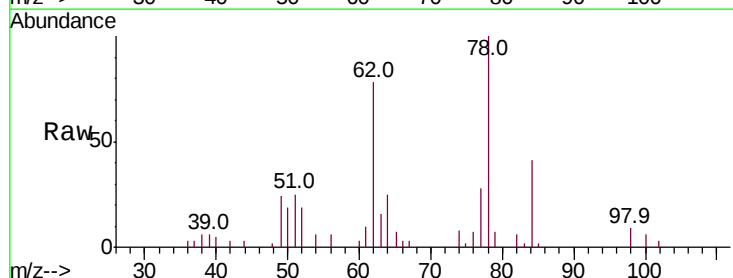
Manual Integrations
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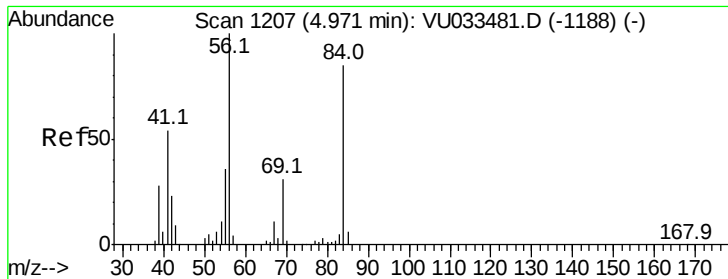
MMdadoda
8/1/2019 3:14:43 PM



#27
1,2-Dichloroethane
Concen: 2.869 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion: 62 Resp: 9867
Ion Ratio Lower Upper
62 100
98 11.2 6.7 10.1#





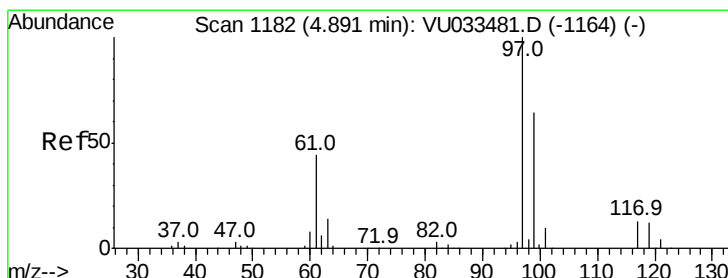
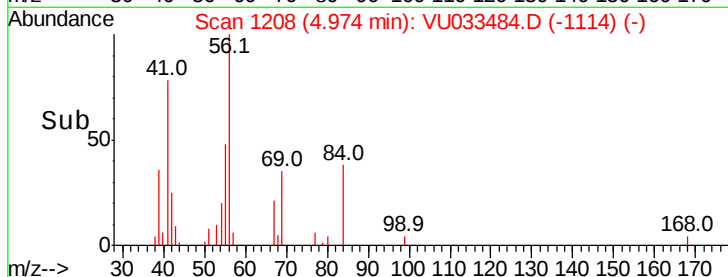
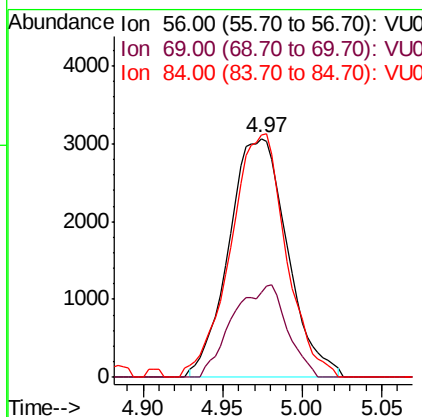
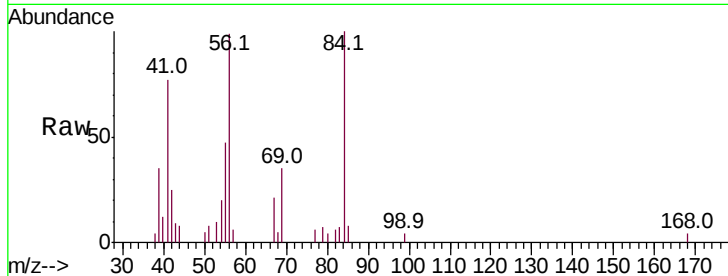
#29
Cyclohexane
Concen: 2.291 ug/L m
RT: 4.97 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	0.0	25.3	37.9#
84	0.0	69.6	104.4#

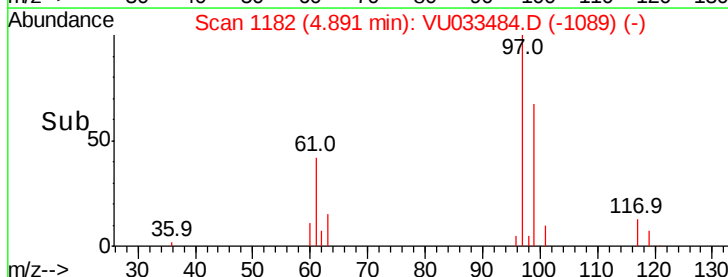
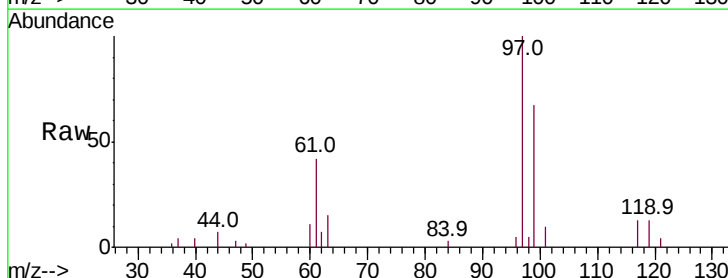
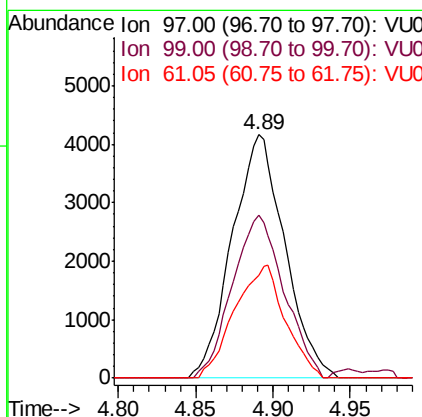
Manual Integrations
APPROVED

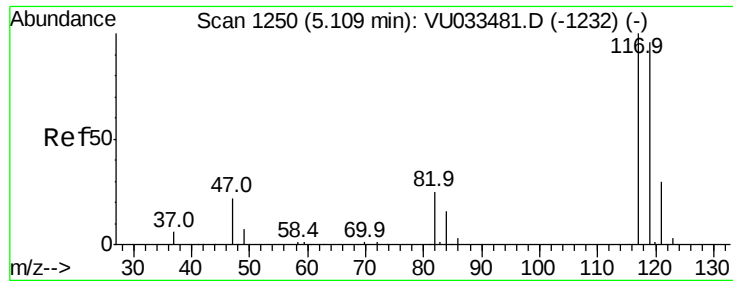
MMdadoda
8/1/2019 3:14:43 PM



#30
1,1,1-Trichloroethane
Concen: 2.654 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	51.8	77.6
61	44.6	36.2	54.2





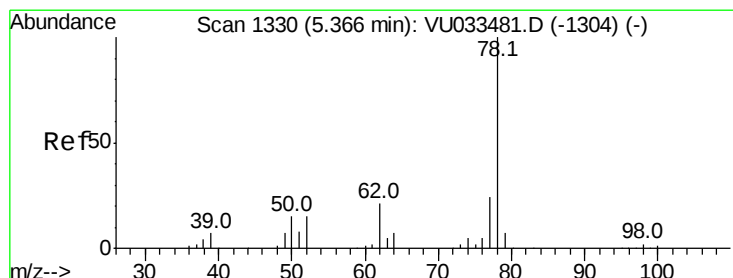
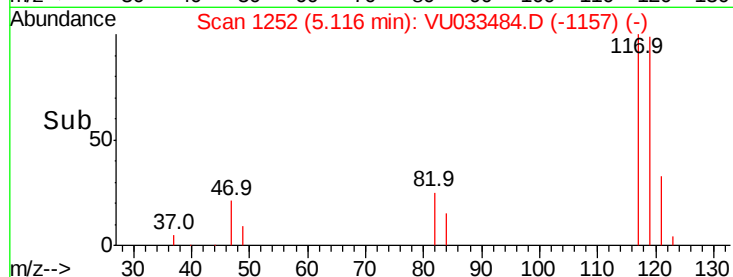
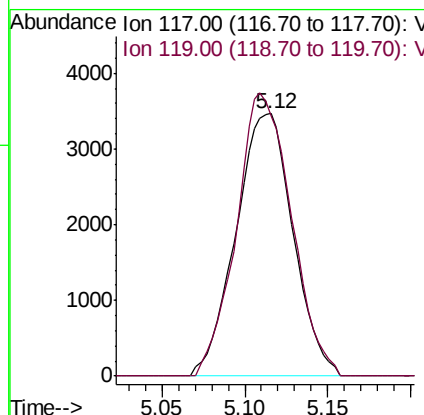
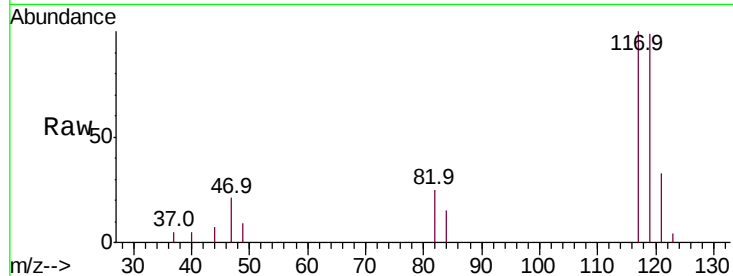
#31
Carbon tetrachloride
Concen: 2.517 ug/L
RT: 5.12 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion:117 Resp: 8309
Ion Ratio Lower Upper
117 100
119 103.8 76.8 115.2

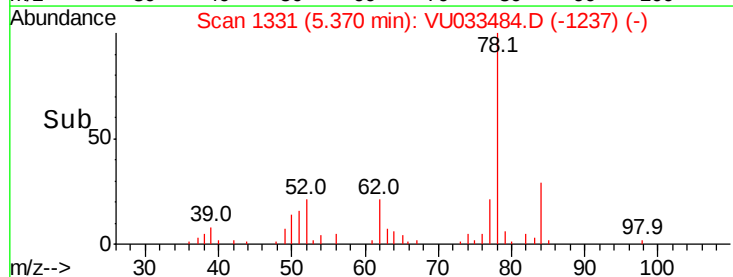
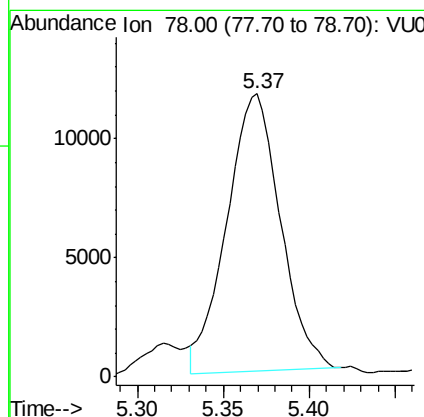
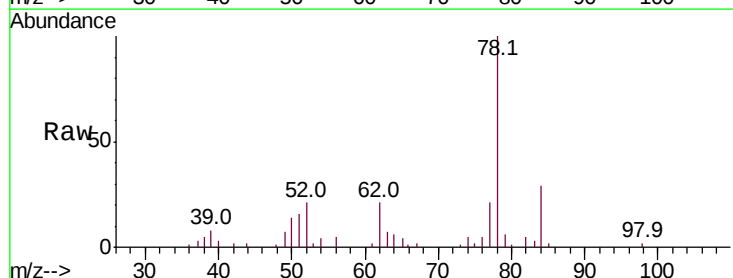
Manual Integrations
APPROVED

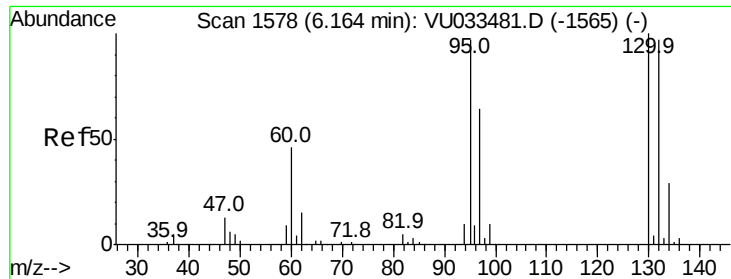
MMdadoda
8/1/2019 3:14:43 PM



#33
Benzene
Concen: 2.714 ug/L
RT: 5.37 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion: 78 Resp: 25262





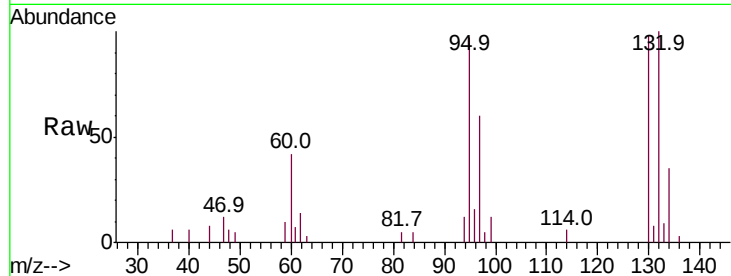
#34
 Trichloroethene
 Concen: 2.743 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
95	100		
97	61.7	45.4	84.2
132	102.6	67.1	124.5
130	100.3	71.4	132.6

Manual Integrations
 APPROVED

MMDadoda
 8/1/2019 3:14:43 PM



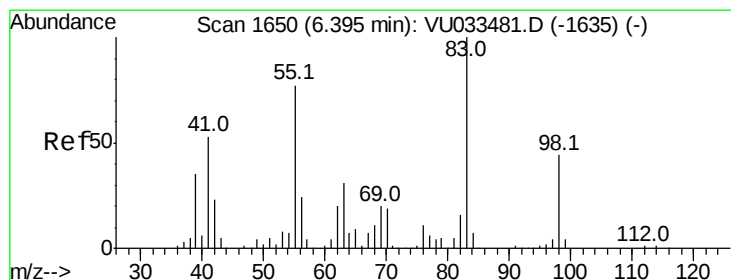
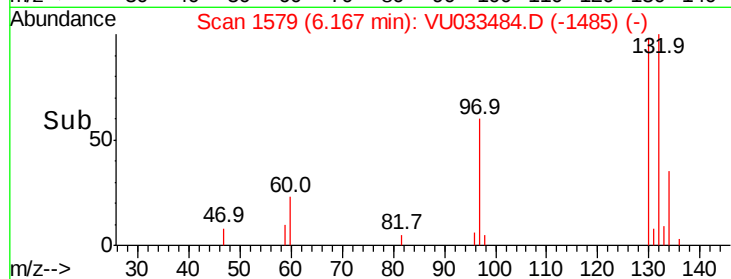
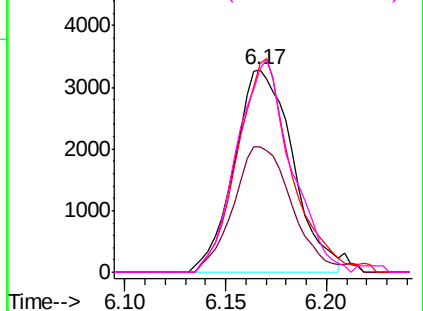
Abundance

Ion 95.00 (94.70 to 95.70): VU033484.D (-1565) (-)

Ion 97.00 (96.70 to 97.70): VU033484.D (-1565) (-)

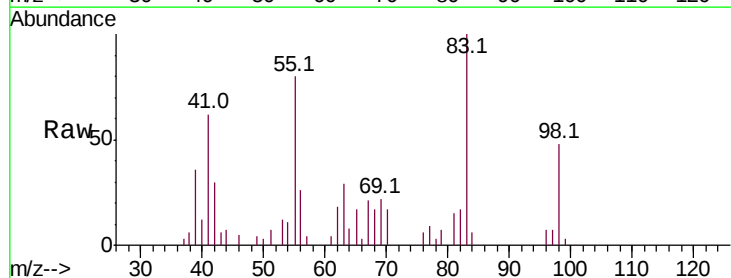
Ion 132.00 (131.70 to 132.70): VU033484.D (-1565) (-)

Ion 130.00 (129.70 to 130.70): VU033484.D (-1565) (-)



#35
 Methylcyclohexane
 Concen: 2.453 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	78.9	62.4	93.6
98	46.6	37.3	55.9

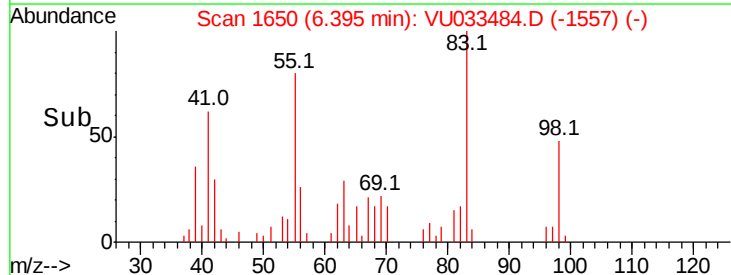
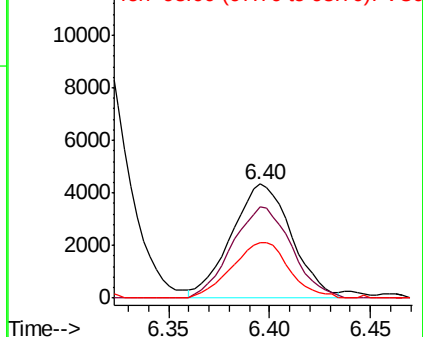


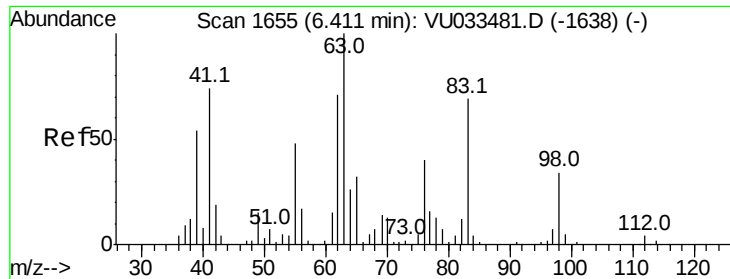
Abundance

Ion 83.00 (82.70 to 83.70): VU033484.D (-1635) (-)

Ion 55.00 (54.70 to 55.70): VU033484.D (-1635) (-)

Ion 98.00 (97.70 to 98.70): VU033484.D (-1635) (-)





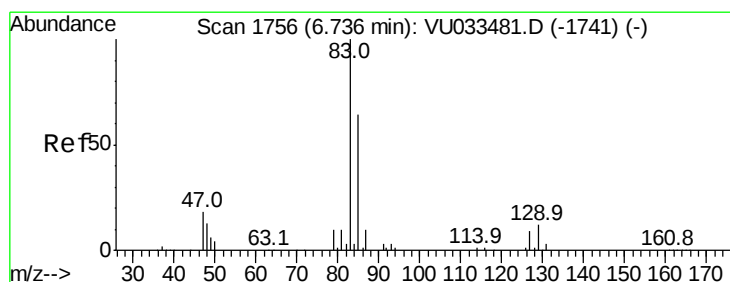
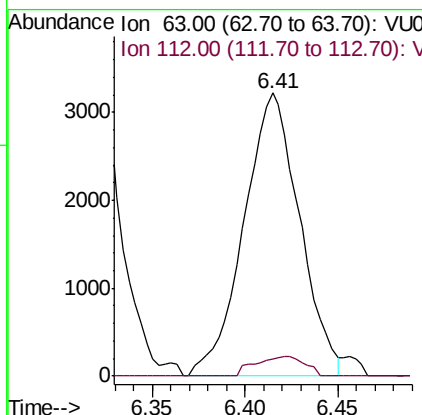
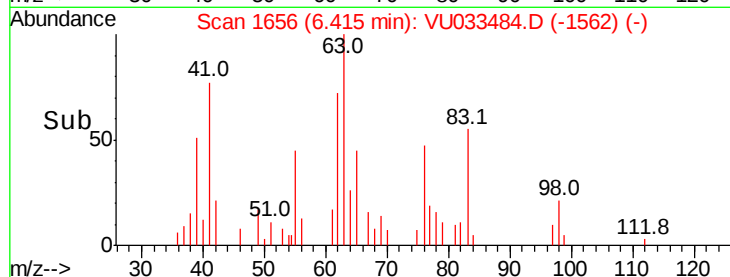
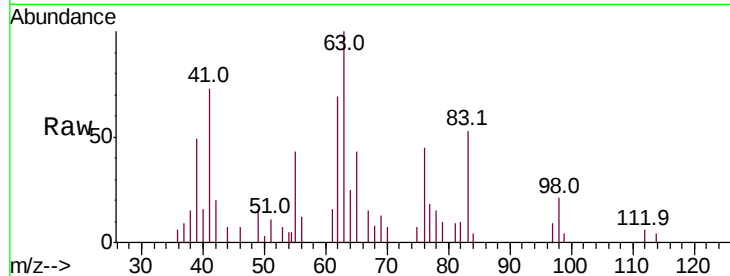
#37
 1,2-Dichloropropane
 Concen: 2.698 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 6755
 Ion Ratio Lower Upper
 63 100
 112 5.0 3.1 4.7#

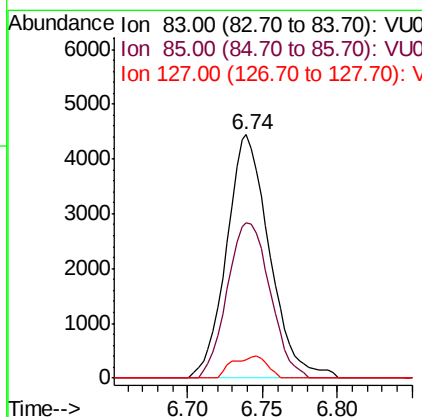
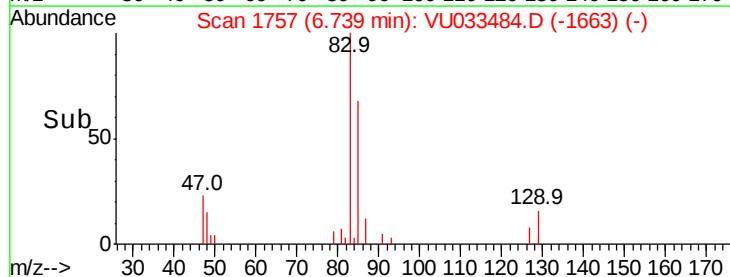
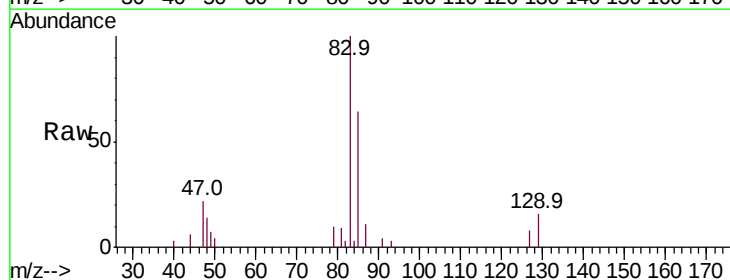
Manual Integrations
 APPROVED

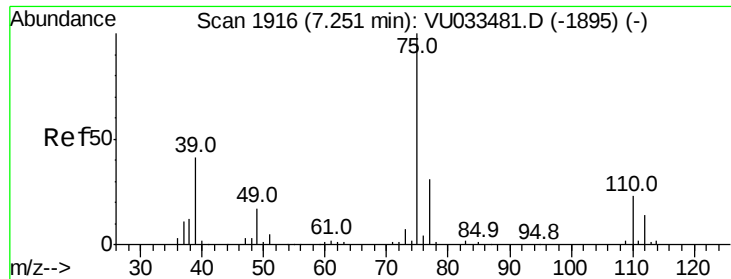
MMdadoda
 8/1/2019 3:14:43 PM



#38
 Bromodichloromethane
 Concen: 2.692 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Tgt Ion: 83 Resp: 8873
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.4 84.4
 127 7.6 7.3 10.9





#39

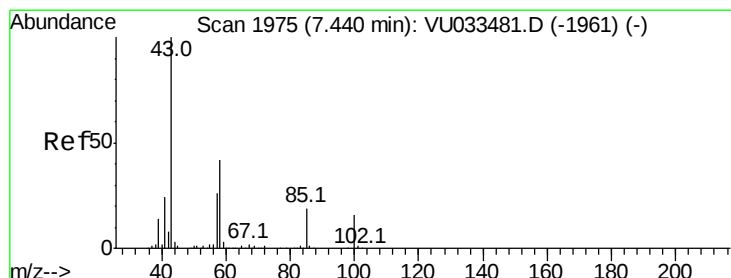
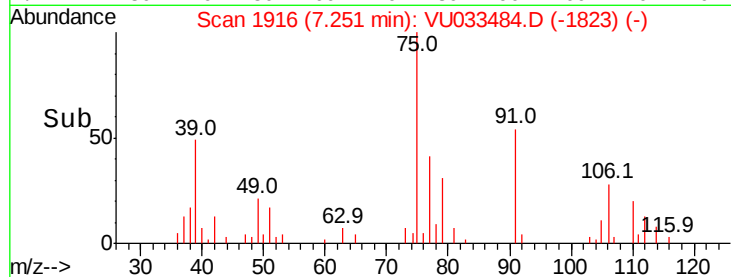
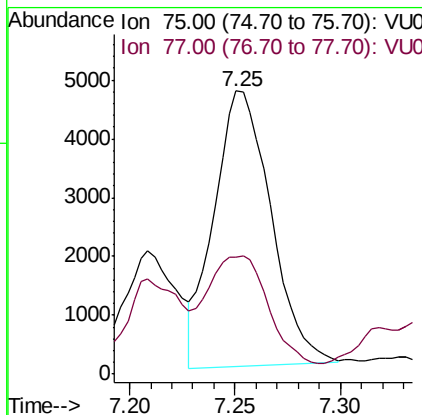
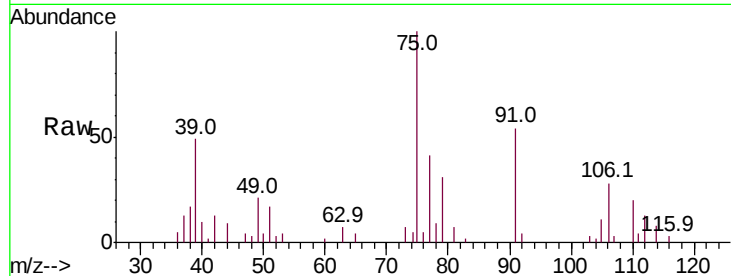
cis-1,3-Dichloropropene
Concen: 2.351 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 75 Resp: 8776
Ion Ratio Lower Upper
75 100
77 41.2 21.6 40.2#

Manual Integrations
APPROVED

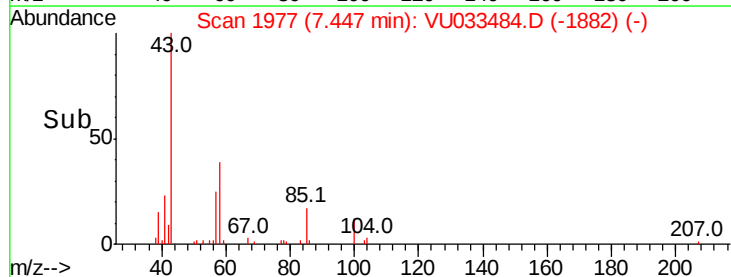
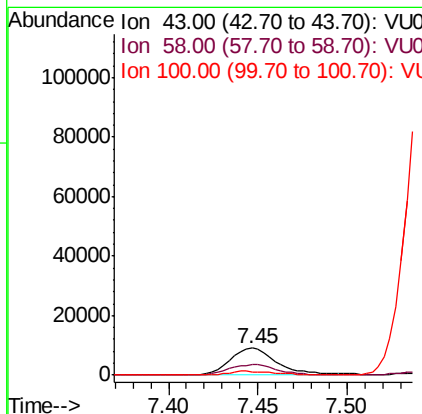
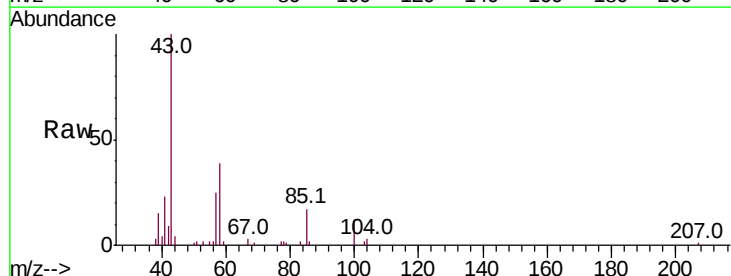
MMdadoda
8/1/2019 3:14:43 PM

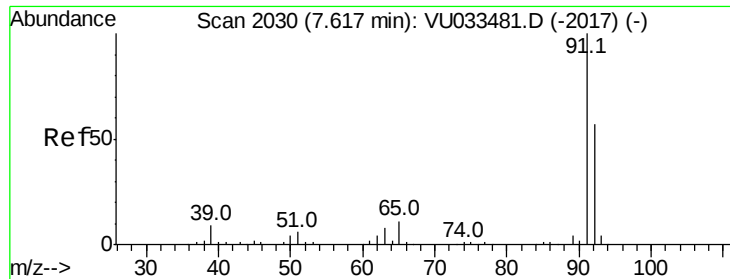


#40

4-Methyl-2-pentanone
Concen: 5.071 ug/L
RT: 7.45 min Scan# 1977
Delta R.T. 0.01 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion: 43 Resp: 16733
Ion Ratio Lower Upper
43 100
58 40.8 33.4 50.2
100 13.8 12.3 18.5





#42

Toluene

Concen: 2.801 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 91 Resp: 28058

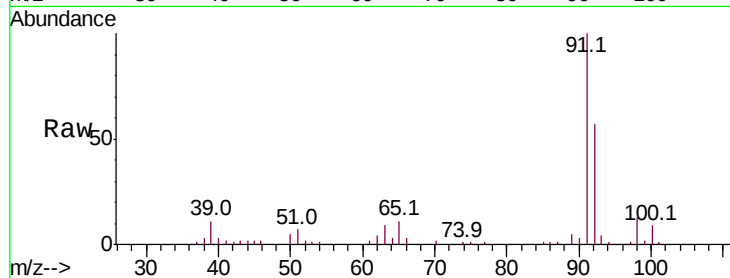
Ion Ratio Lower Upper

91 100

92 57.3 40.1 74.5

Manual Integrations
APPROVED

MMDadoda
8/1/2019 3:14:43 PM



Abundance Ion 91.00 (90.70 to 91.70): VU033484.D (-2017) (-)

Ion 92.00 (91.70 to 92.70): VU033484.D (-2017) (-)

7.62

15000

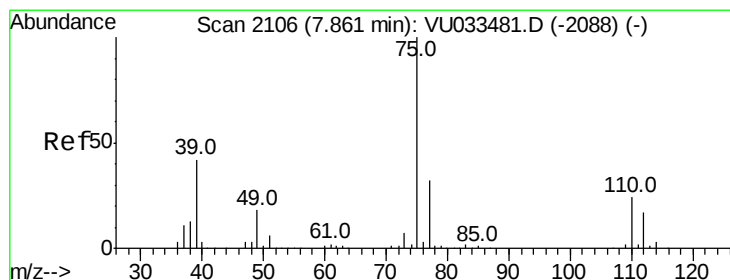
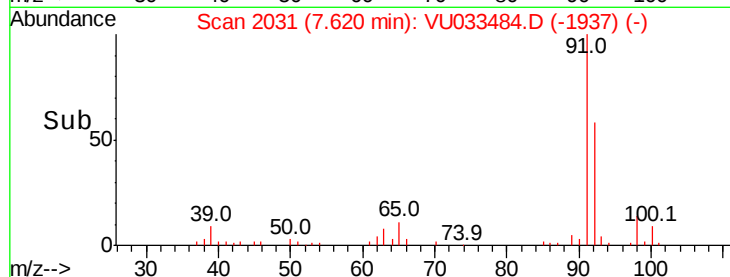
10000

5000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.714 ug/L m

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033484.D

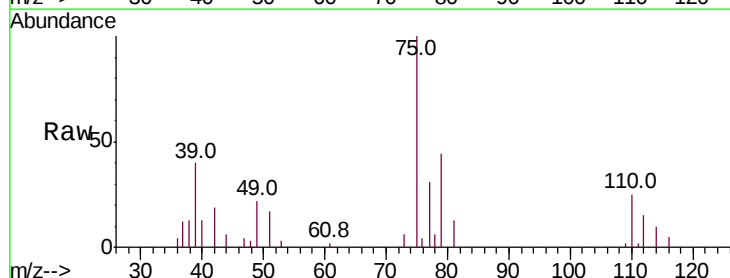
Acq: 30 Jul 2019 11:01

Tgt Ion: 75 Resp: 9198

Ion Ratio Lower Upper

75 100

77 30.9 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU033484.D (-2103) (-)

Ion 77.00 (76.70 to 77.70): VU033484.D (-2103) (-)

7.86

5000

4000

3000

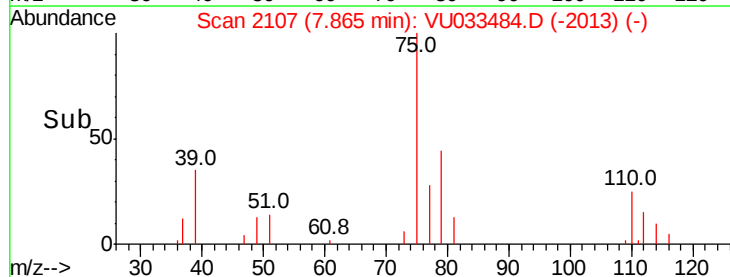
2000

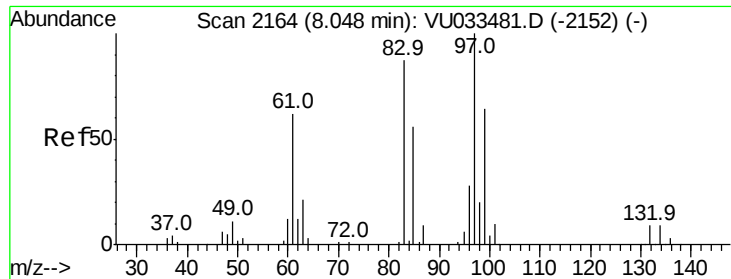
1000

0

7.85 7.90 7.95

Time-->





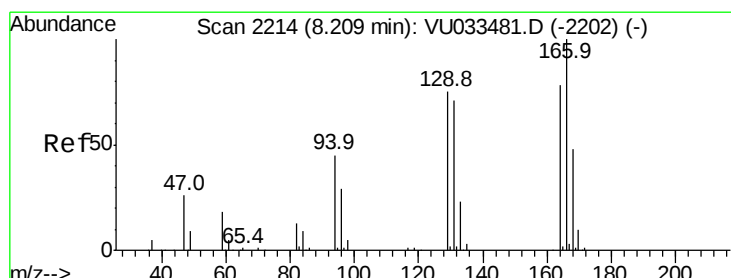
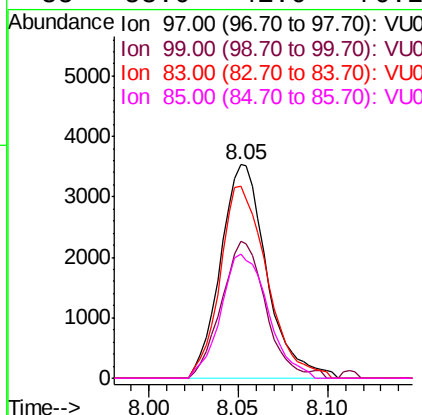
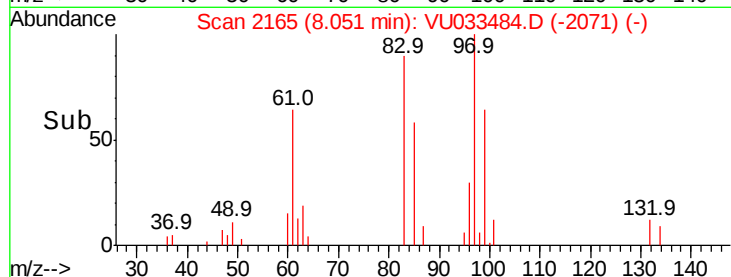
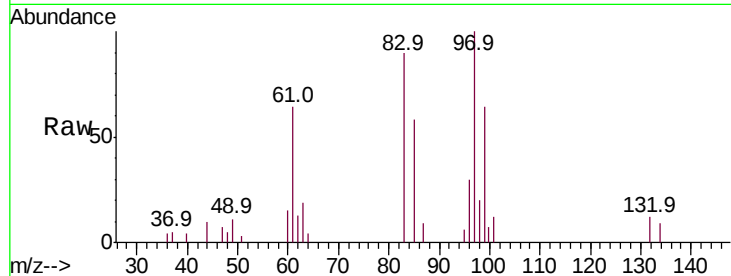
#45
1,1,2-Trichloroethane
Concen: 2.665 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion:	97	Resp:	6363
Ion	Ratio	Lower	Upper
97	100		
99	63.9	43.3	80.5
83	90.0	61.3	113.9
85	58.0	41.0	76.2

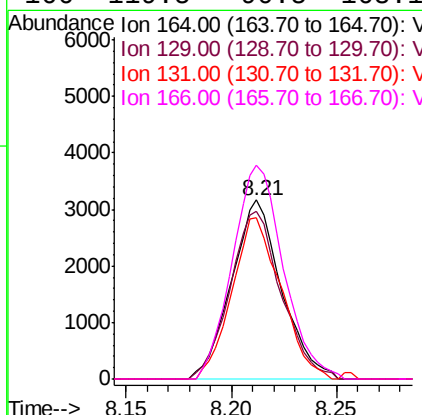
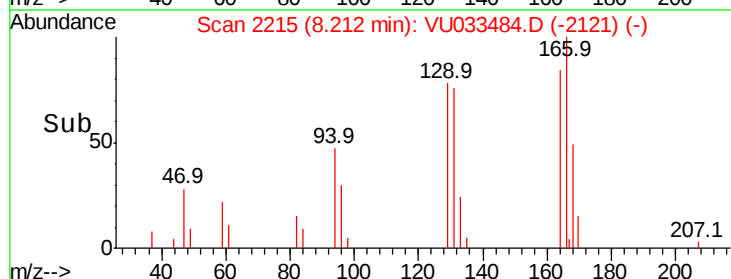
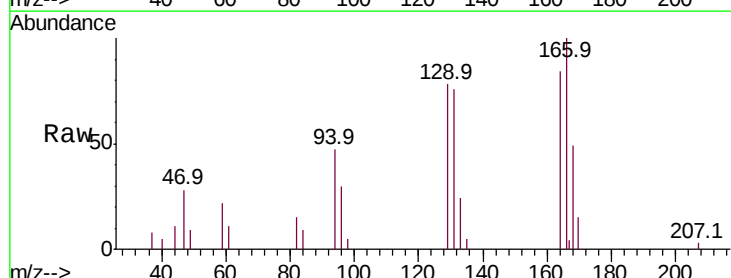
Manual Integrations
APPROVED

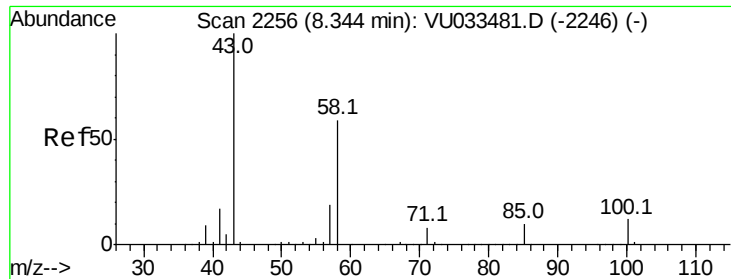
MMdadoda
8/1/2019 3:14:43 PM



#46
Tetrachloroethene
Concen: 2.645 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion:	164	Resp:	5221
Ion	Ratio	Lower	Upper
164	100		
129	93.7	66.6	123.8
131	90.5	63.9	118.7
166	119.5	90.5	168.1





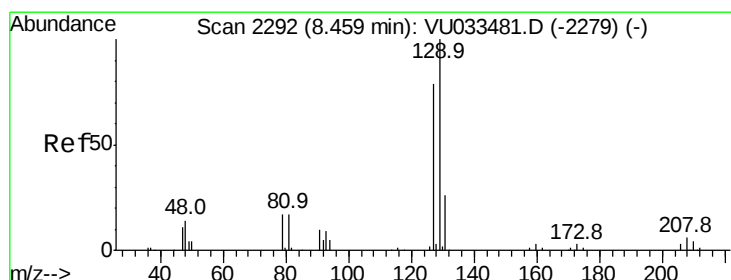
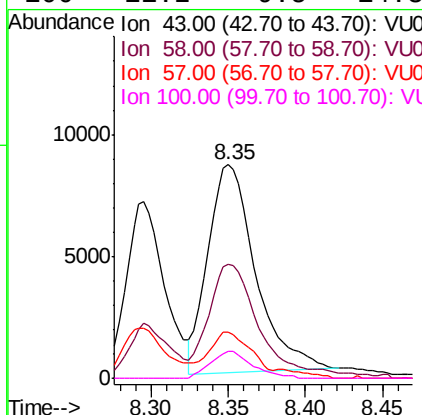
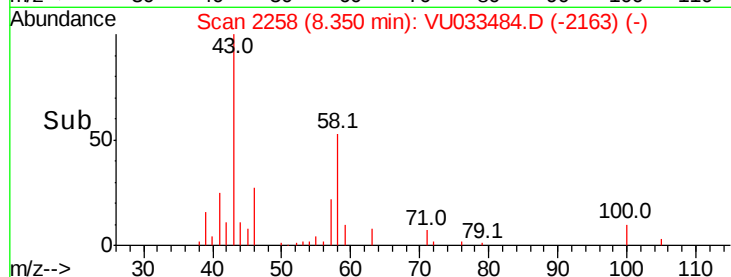
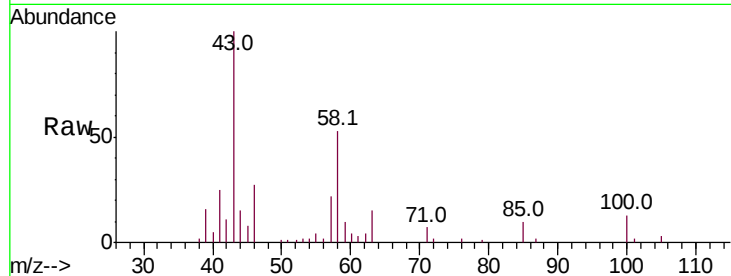
#48
2-Hexanone
Concen: 6.839 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.5	46.6	69.8
57	15.5	16.0	24.0
100	11.2	9.5	14.3

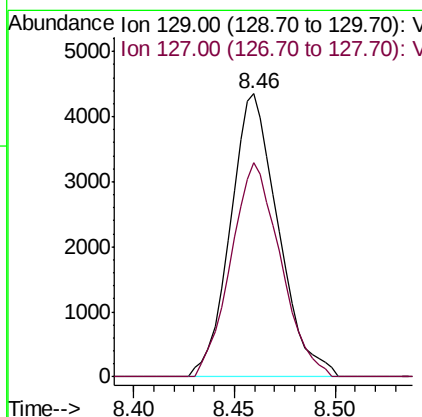
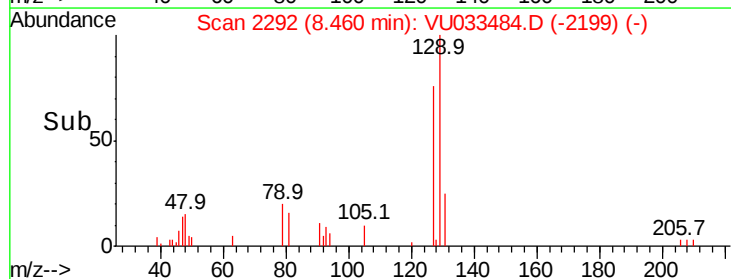
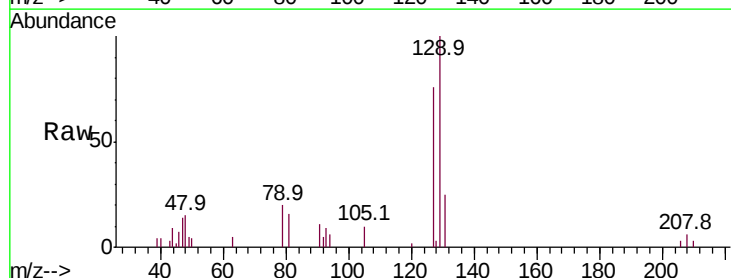
Manual Integrations
APPROVED

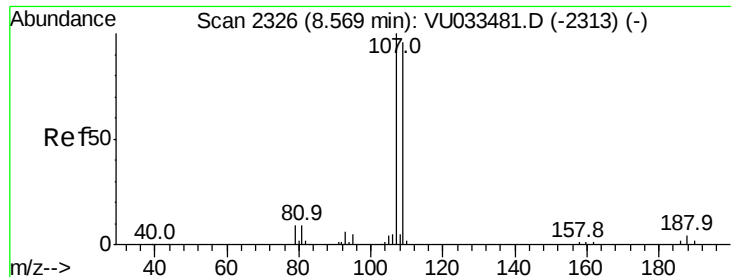
MMdadoda
8/1/2019 3:14:43 PM



#49
Dibromochloromethane
Concen: 2.700 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.5	54.5	101.1





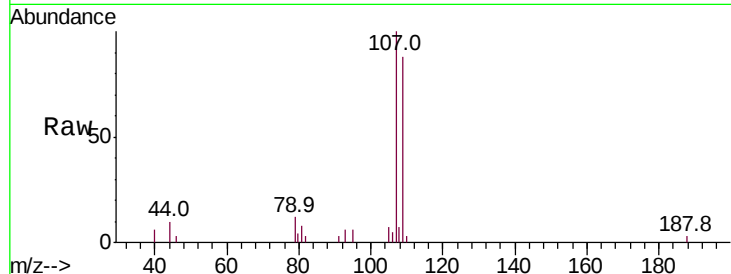
#50
1,2-Dibromoethane
Concen: 2.712 ug/L
RT: 8.57 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Resp	Lower	Upper
107	100	7025		
109	87.6		64.7	120.1
188	3.0		2.8	4.2

Manual Integrations
APPROVED

MMdadoda
8/1/2019 3:14:43 PM

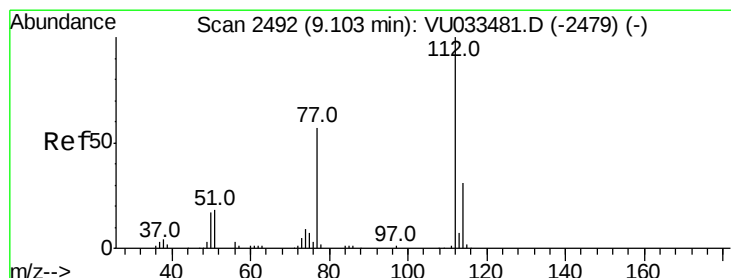
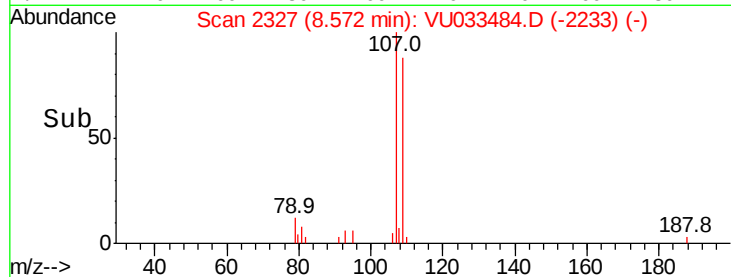
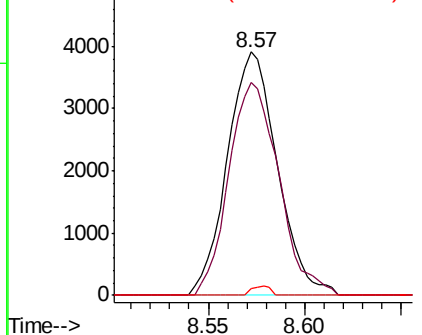


Abundance

Ion 107.00 (106.70 to 107.70): V

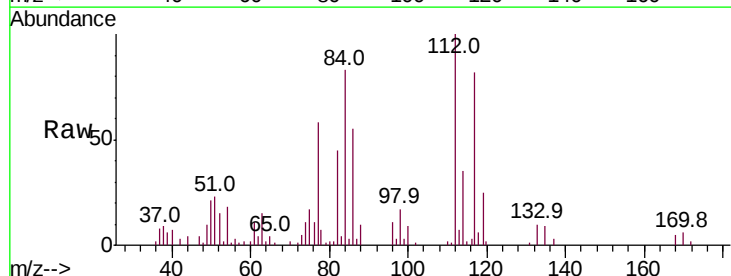
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 2.991 ug/L
RT: 9.11 min Scan# 2493
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	19908		
114	34.7		21.9	40.7
77	57.7		46.1	69.1

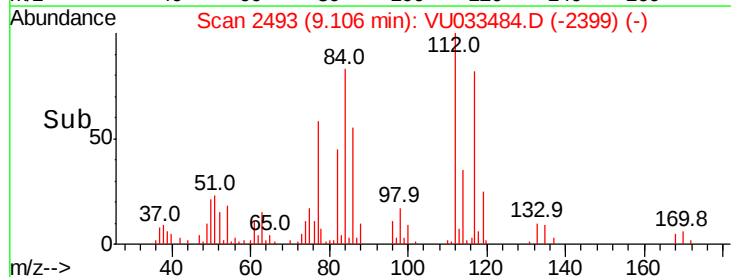
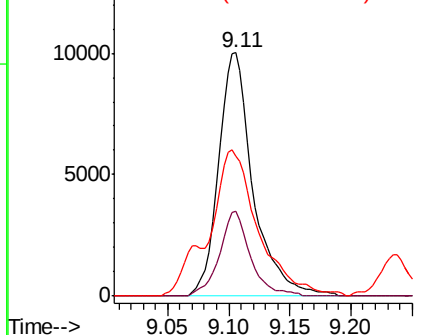


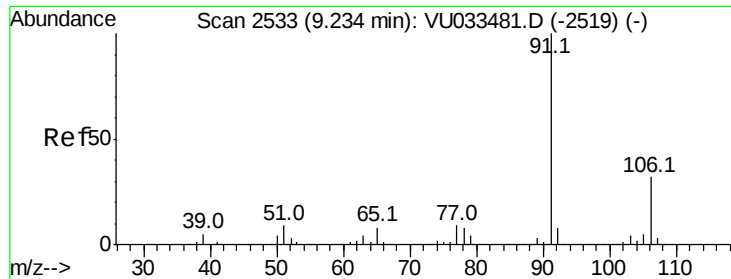
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 2.598 ug/L

RT: 9.24 min Scan# 2534

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 28211

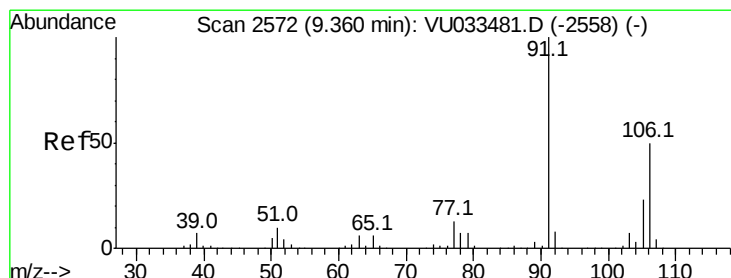
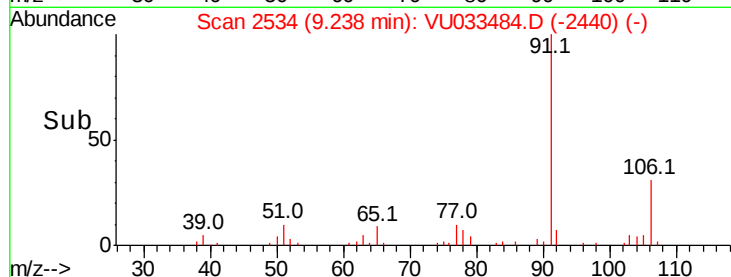
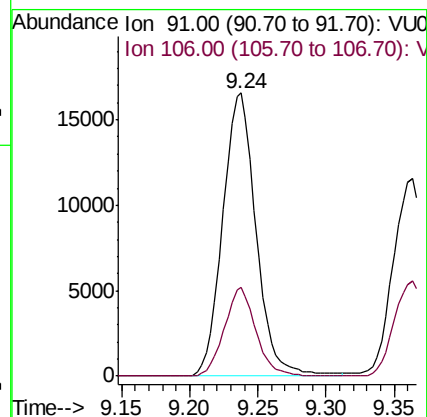
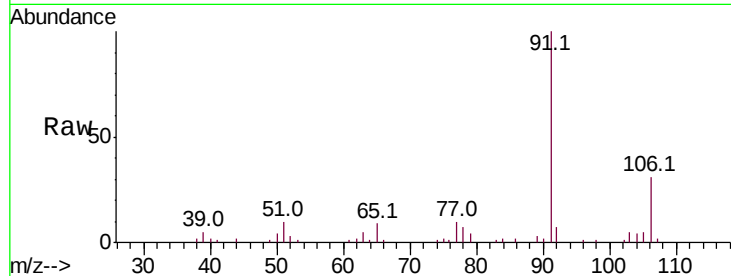
Ion Ratio Lower Upper

91 100

106 31.2 21.6 40.2

Manual Integrations
APPROVED

MMdadoda
8/1/2019 3:14:43 PM



#53

m,p-Xylene

Concen: 2.321 ug/L

RT: 9.36 min Scan# 2573

Delta R.T. 0.00 min

Lab File: VU033484.D

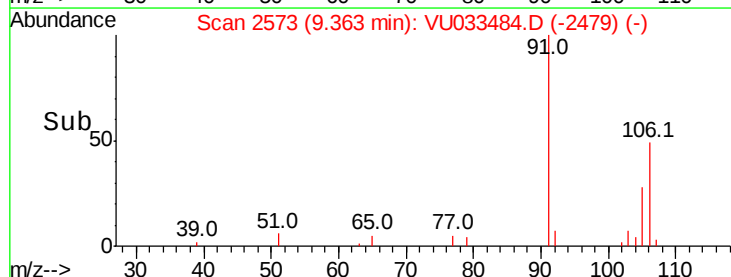
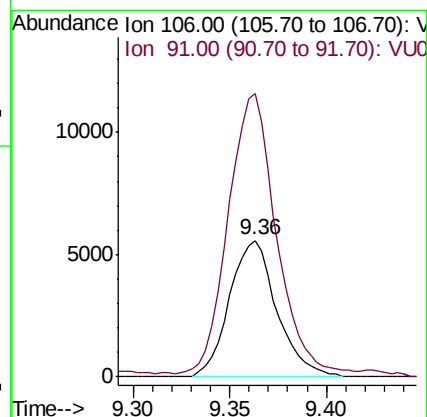
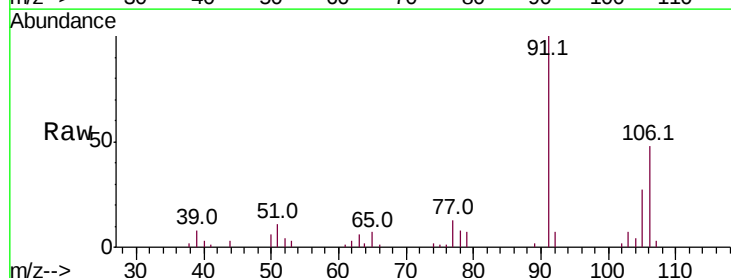
Acq: 30 Jul 2019 11:01

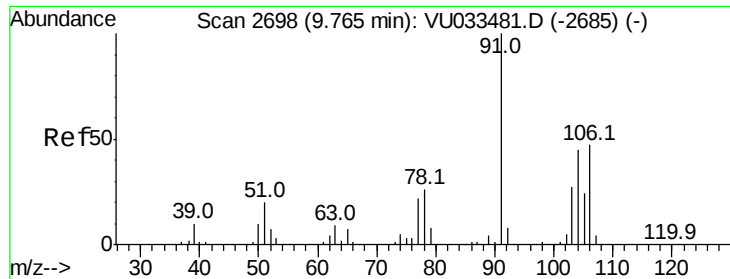
Tgt Ion: 106 Resp: 9479

Ion Ratio Lower Upper

106 100

91 207.3 140.7 261.3





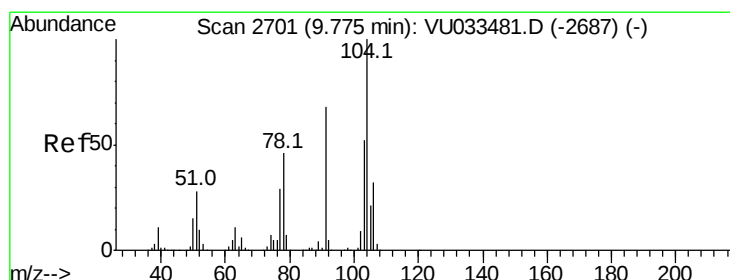
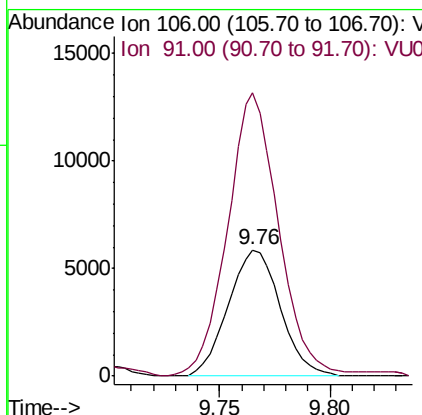
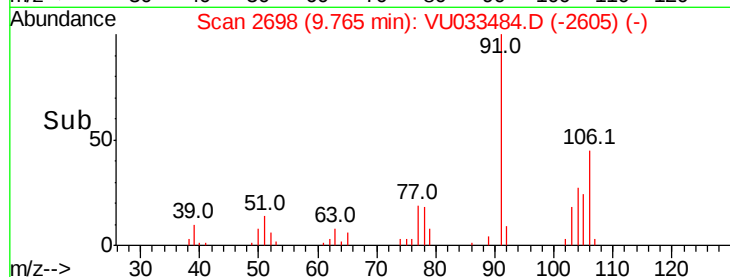
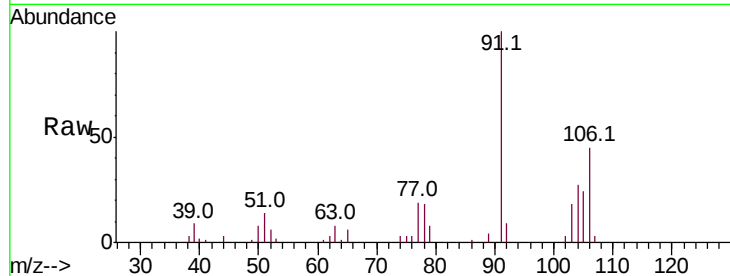
#54
o-xylene
Concen: 2.403 ug/L
RT: 9.76 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion:106 Resp: 9622
Ion Ratio Lower Upper
106 100
91 224.4 151.1 280.7

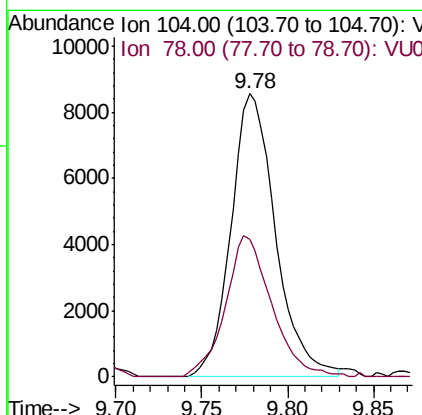
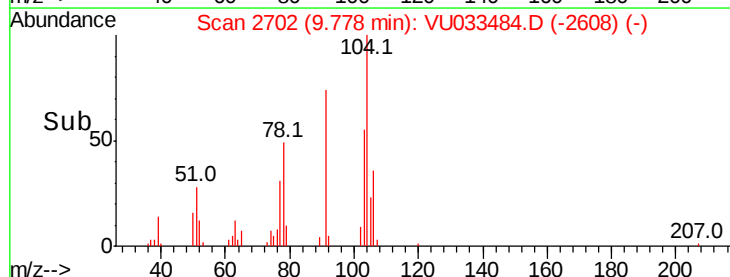
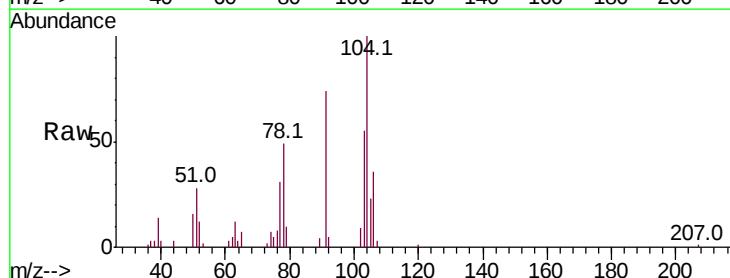
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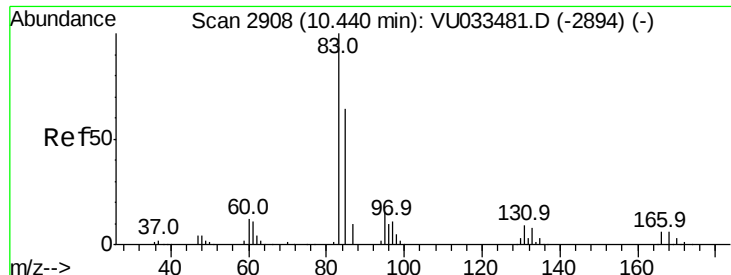
MMdadoda
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#55
Styrene
Concen: 2.272 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion:104 Resp: 15437
Ion Ratio Lower Upper
104 100
78 48.6 32.6 60.5





#57

1,1,2,2-Tetrachloroethane

Concen: 3.000 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

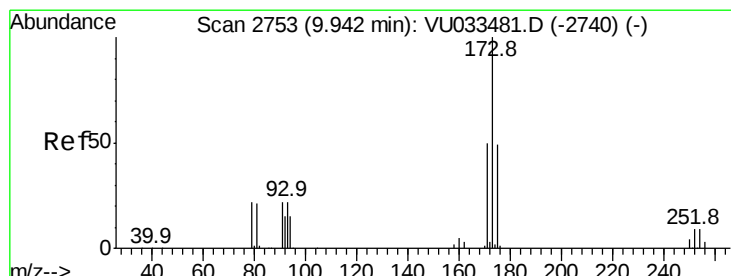
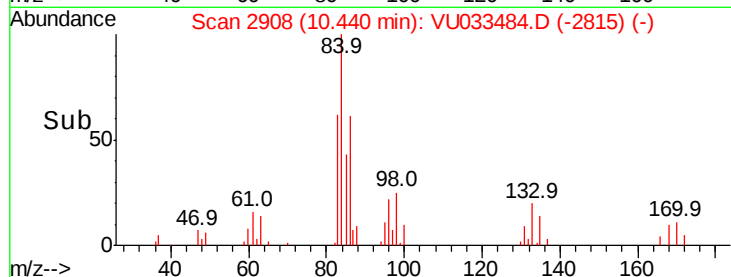
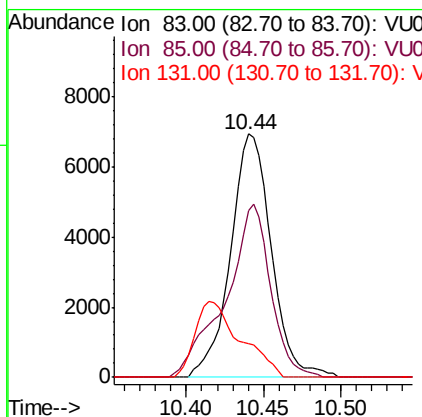
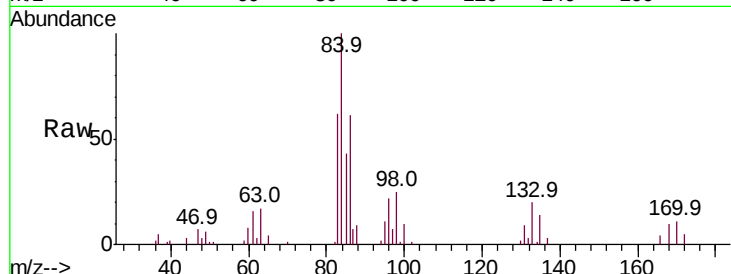
ClientSampleId :

MDL03

Tot Ion:	83	Resp:	12734
Ion Ratio	Lower	Upper	
83	100		
85	68.3	45.9	85.3
131	14.0	7.8	11.8#

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#59

Bromoform

Concen: 2.768 ug/L

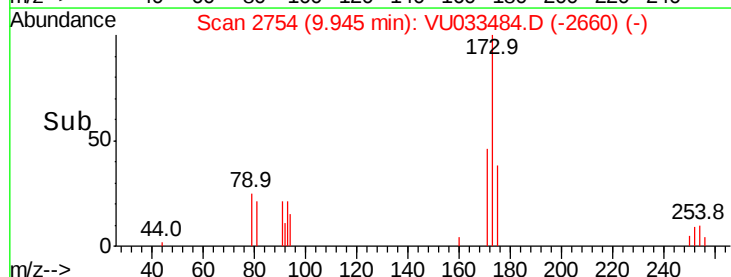
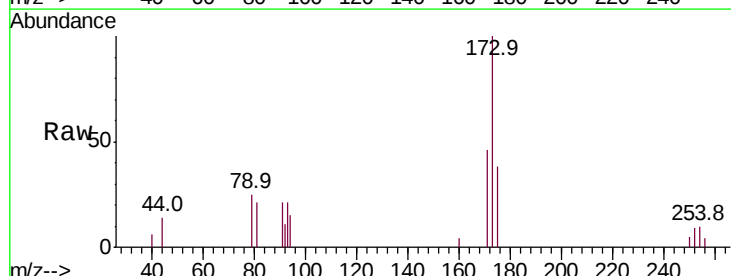
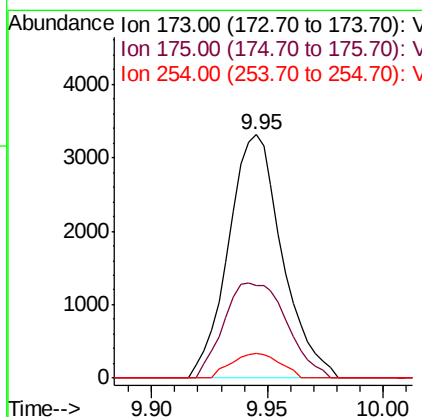
RT: 9.95 min Scan# 2754

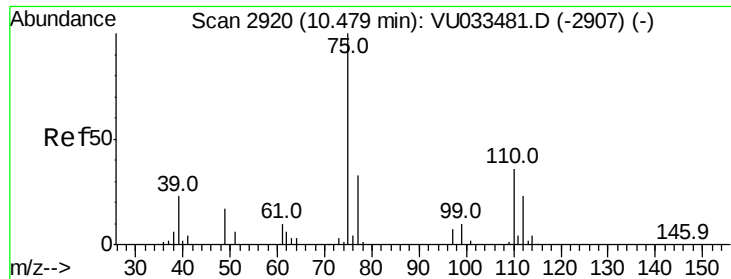
Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Tgt Ion:	173	Resp:	5324
Ion Ratio	Lower	Upper	
173	100		
175	45.8	38.1	57.1
254	9.3	7.3	10.9





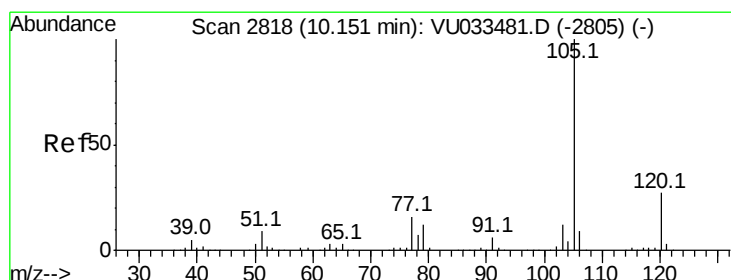
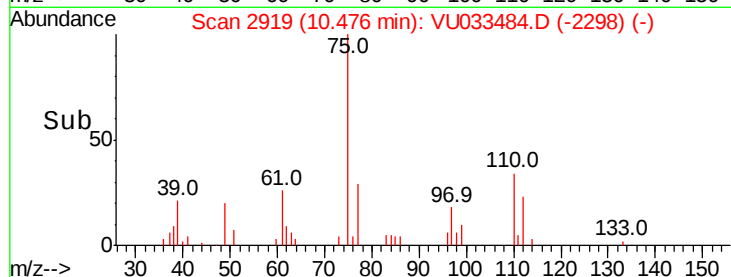
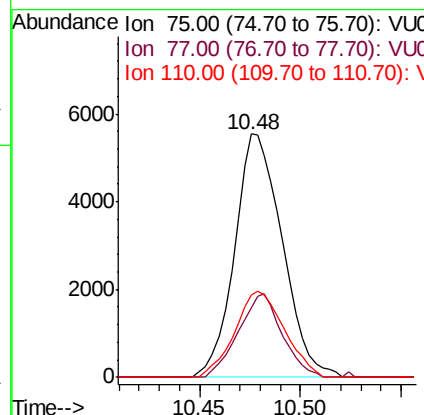
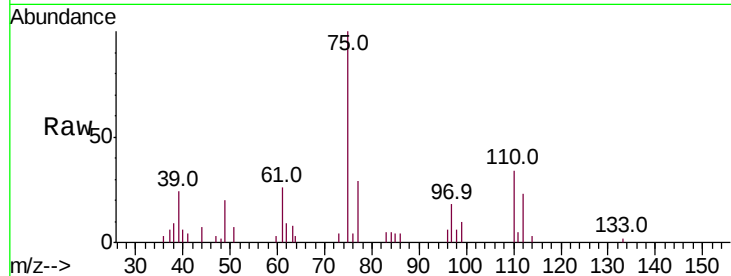
#60
 1,2,3-Trichloropropane
 Concen: 2.921 ug/L
 RT: 10.48 min Scan# 2919
 Delta R.T. -0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.9	38.9
110	36.9	30.2	45.4

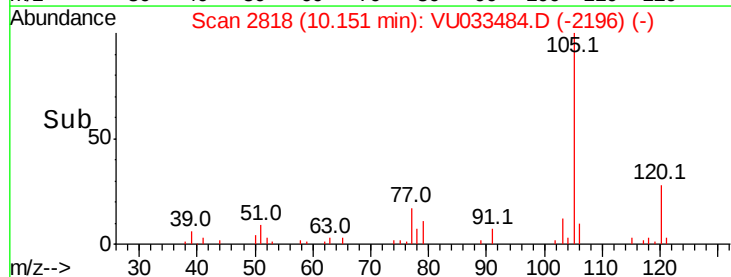
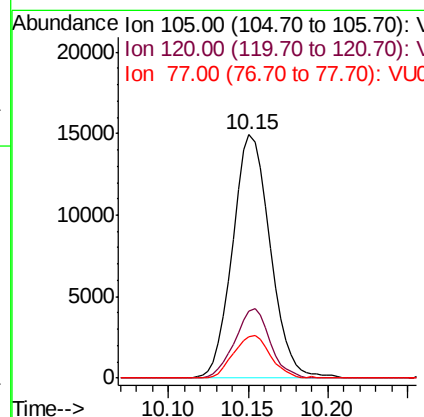
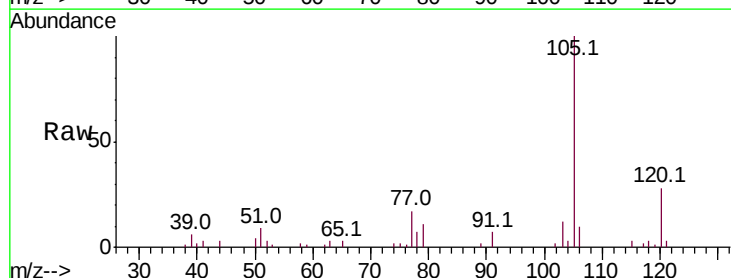
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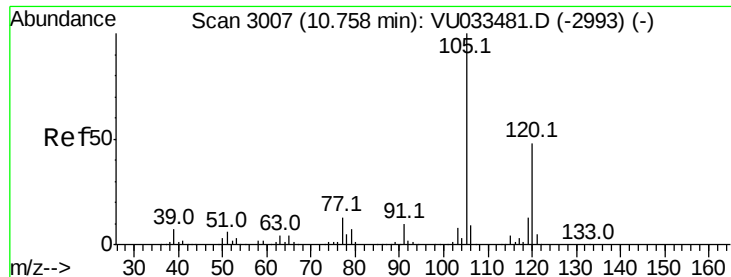
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#61
 Isopropylbenzene
 Concen: 2.431 ug/L
 RT: 10.15 min Scan# 2818
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	21.7	32.5
77	16.9	12.6	19.0





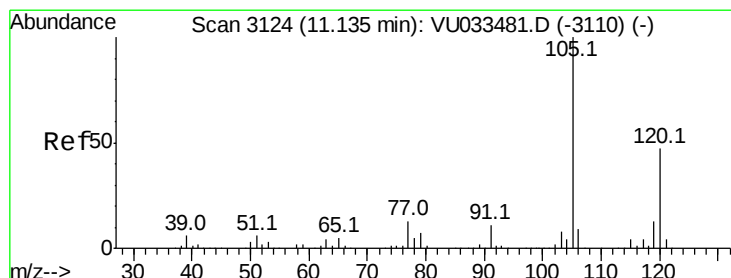
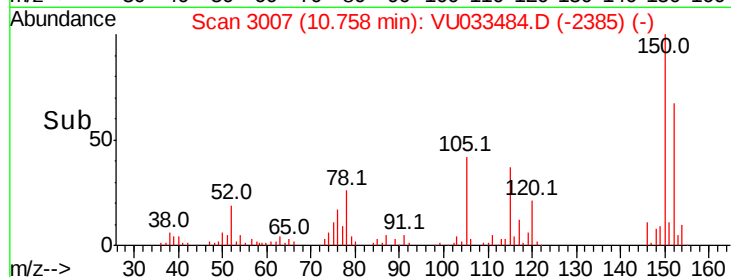
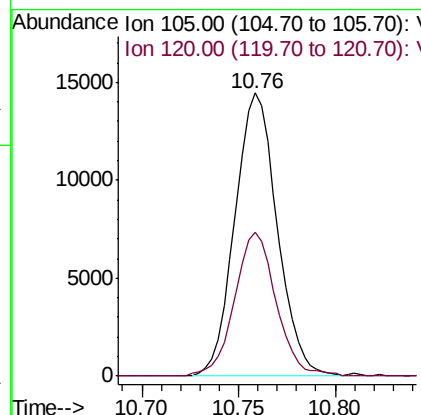
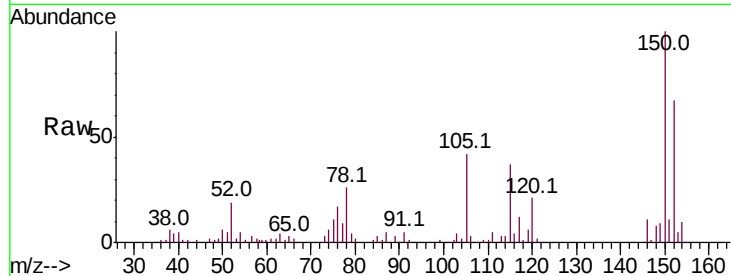
#62
 1,3,5-Trimethylbenzene
 Concen: 2.757 ug/L
 RT: 10.76 min Scan# 3007
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
105	100		
120	49.8	39.0	58.6

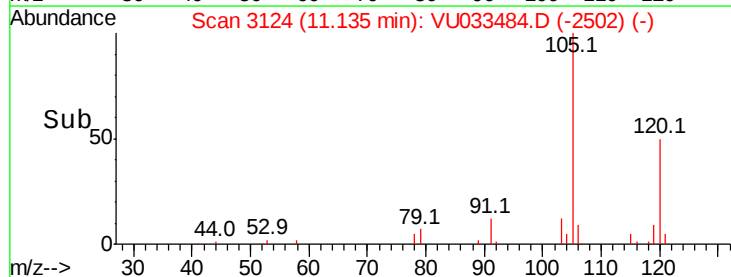
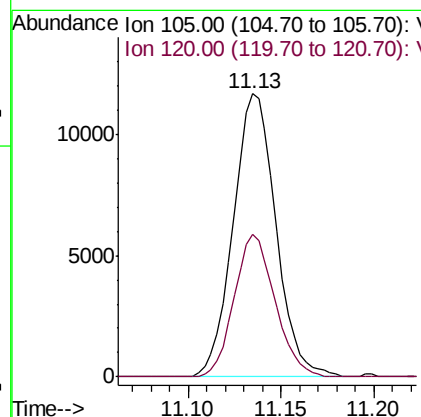
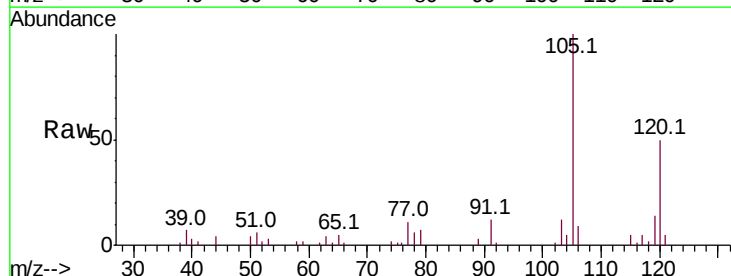
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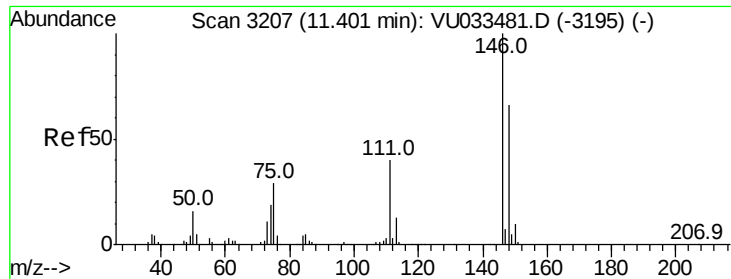
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.355 ug/L
 RT: 11.13 min Scan# 3124
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.8	36.6	55.0





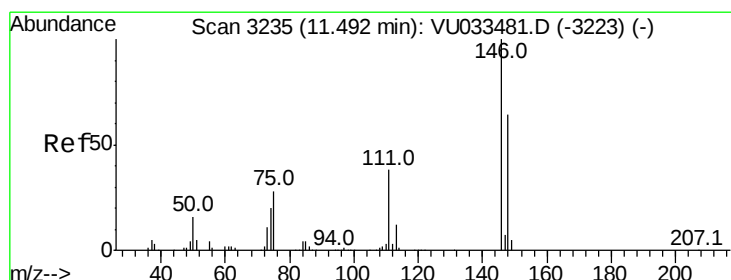
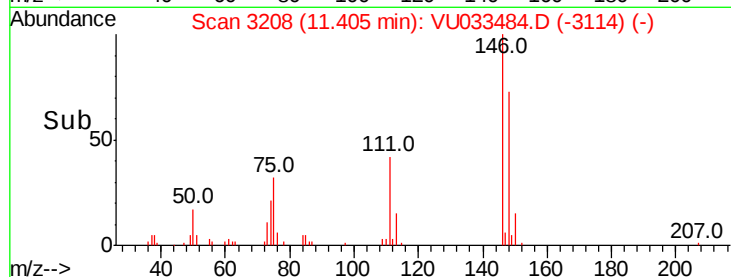
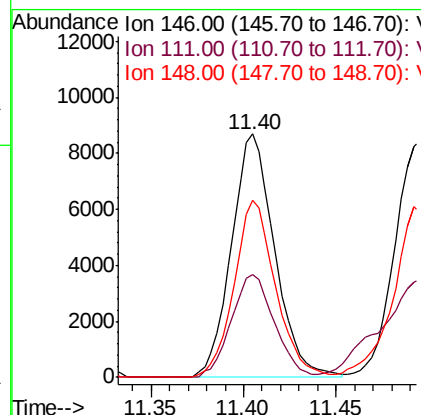
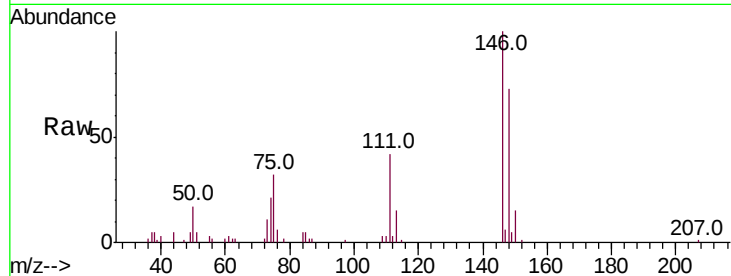
#64
 1,3-Dichlorobenzene
 Concen: 2.790 ug/L
 RT: 11.40 min Scan# 3208
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	28.2	52.4
148	72.6	44.4	82.5

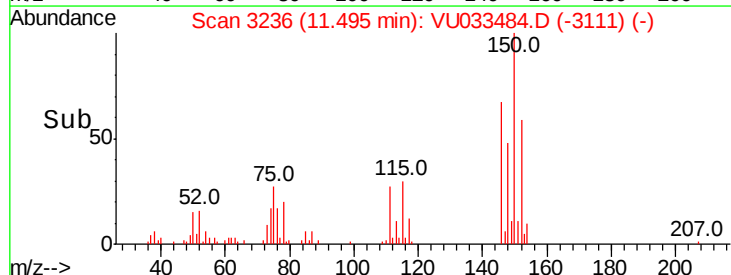
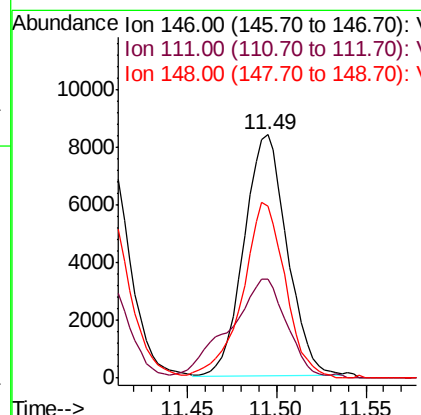
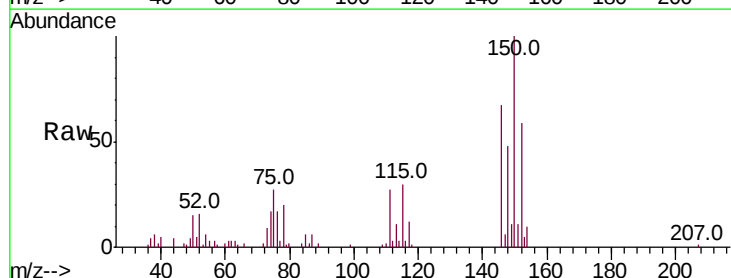
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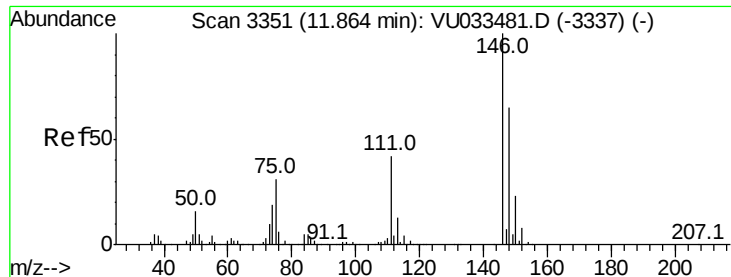
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#65
 1,4-Dichlorobenzene
 Concen: 2.706 ug/L
 RT: 11.49 min Scan# 3236
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.7	27.0	50.2
148	70.6	44.7	82.9





#67

1,2-Dichlorobenzene

Concen: 2.958 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Instrument :

MSVOA_U

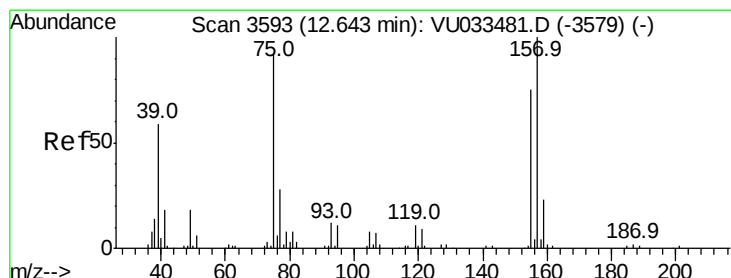
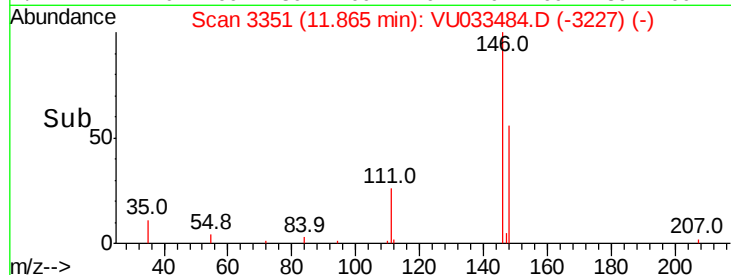
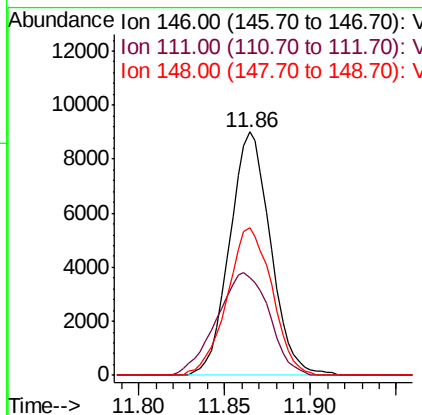
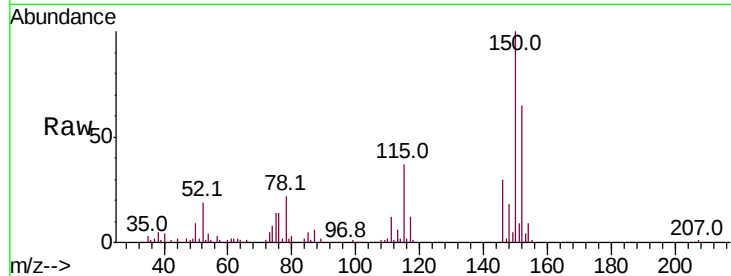
ClientSampleId :

MDL03

Tot Ion:	146	Resp:	14882
Ion	Ratio	Lower	Upper
146	100		
111	40.4	32.8	49.2
148	60.9	49.2	73.8

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#68

1,2-Dibromo-3-chloropropane

Concen: 3.457 ug/L

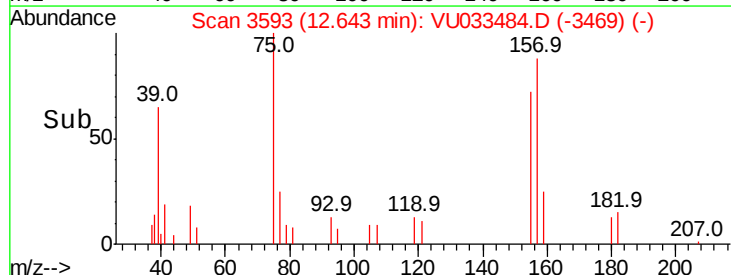
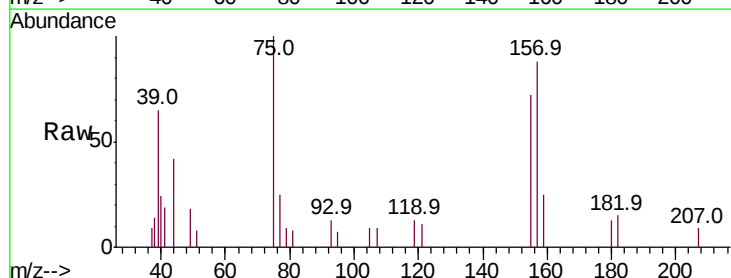
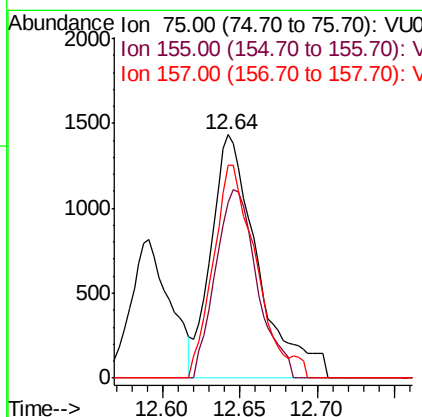
RT: 12.64 min Scan# 3593

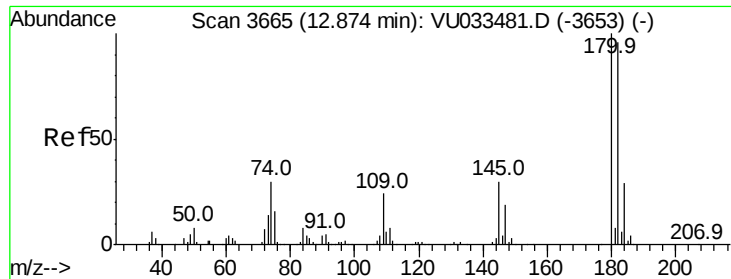
Delta R.T. 0.00 min

Lab File: VU033484.D

Acq: 30 Jul 2019 11:01

Tgt Ion:	75	Resp:	3011
Ion	Ratio	Lower	Upper
75	100		
155	72.0	64.8	97.2
157	87.6	87.1	130.7





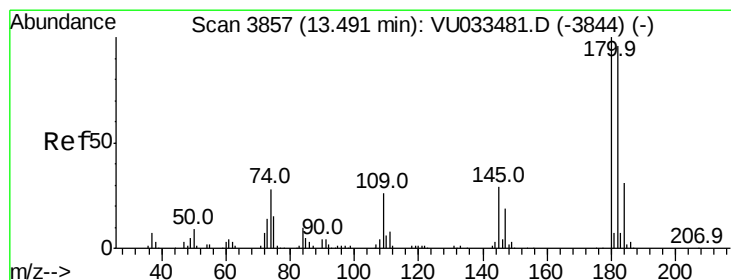
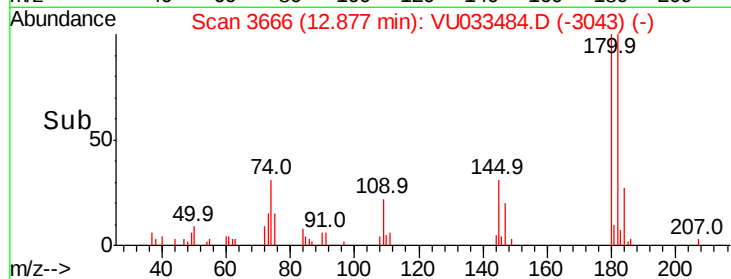
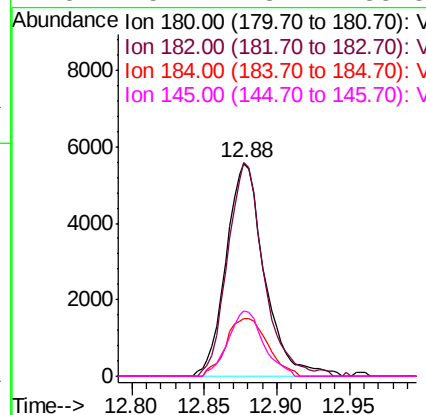
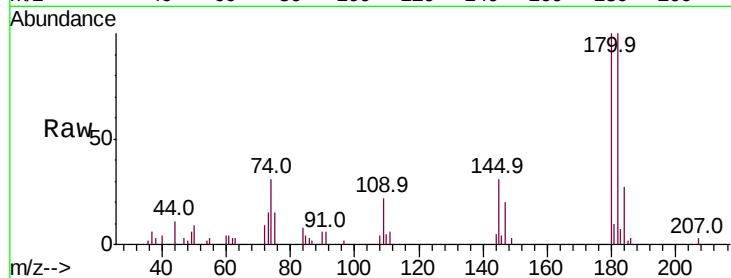
#69
 1,3,5-Trichlorobenzene
 Concen: 2.697 ug/L
 RT: 12.88 min Scan# 3666
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	180	Resp:	10283
Ion Ratio	Lower	Upper	
180	100		
182	93.6	76.2	114.4
184	29.1	24.1	36.1
145	28.1	23.7	35.5

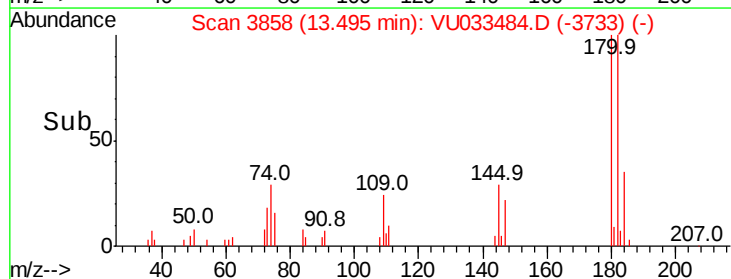
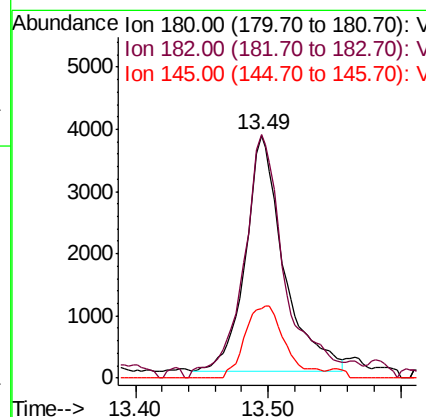
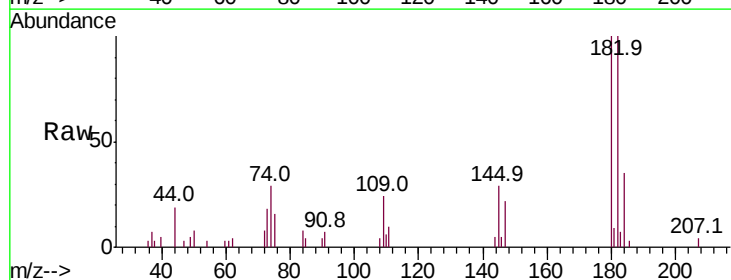
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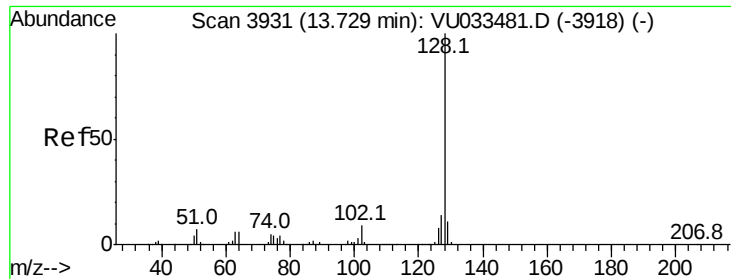
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#70
 1,2,4-trichlorobenzene
 Concen: 2.379 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VU033484.D
 Acq: 30 Jul 2019 11:01

Tgt Ion:	180	Resp:	7570
Ion Ratio	Lower	Upper	
180	100		
182	100.7	77.5	116.3
145	31.3	23.9	35.9





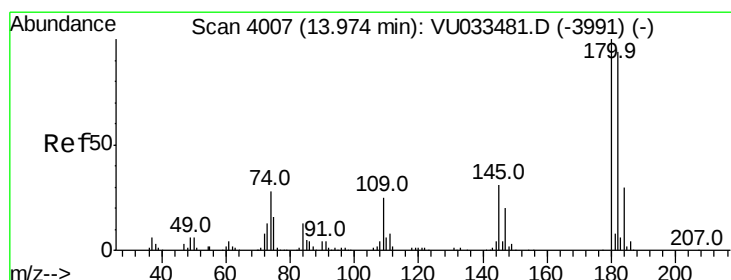
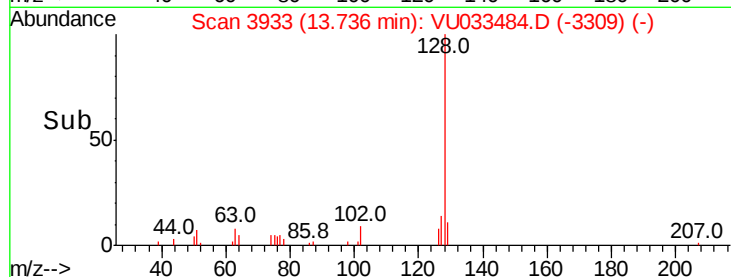
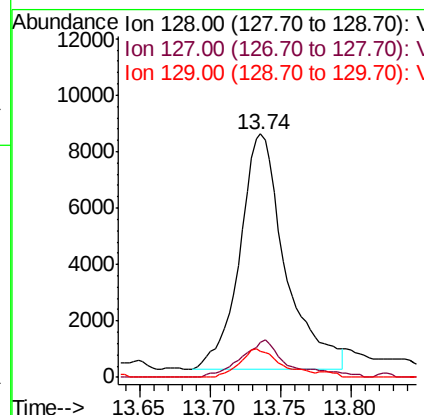
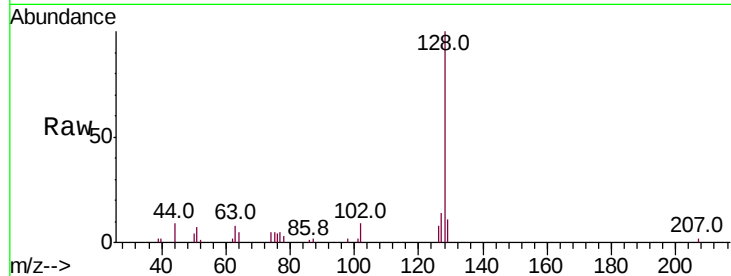
#71
Naphthalene
Concen: 2.032 ug/L
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.8	16.2
129	9.8	8.7	13.1

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#72
1,2,3-Trichlorobenzene
Concen: 2.561 ug/L
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU033484.D
Acq: 30 Jul 2019 11:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	76.4	114.6
145	32.4	24.9	37.3

