

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026168.D
 Acq On : 16 Aug 2018 00:27
 Operator : MD/SY
 Sample : MDL06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:31 PM

Quant Time: Aug 16 05:07:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	277832	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	260633	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	108167	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	66017	40.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.94%
7) Chloroethane-d5	1.67	69	57161	42.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.24%
11) 1,1-Dichloroethene-d2	2.27	63	104398	32.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.18%
21) 2-Butanone-d5	4.18	46	127892	102.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.17%
24) Chloroform-d	4.65	84	159958	43.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.54%
26) 1,2-Dichloroethane-d4	5.31	65	110394	46.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.32%
32) Benzene-d6	5.35	84	310712	46.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.48%
36) 1,2-Dichloropropane-d6	6.33	67	102264	46.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.58%
41) Toluene-d8	7.57	98	282745	43.96	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.92%
43) trans-1,3-Dichloropropene-	7.85	79	45043	43.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.12%
47) 2-Hexanone-d5	8.31	63	90049	99.49	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.49%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	142973	45.98	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.96%
64) 1,2-Dichlorobenzene-d4	11.86	152	108957	48.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.82%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4605	2.09	ug/L	92
3) Chloromethane	1.33	50	4756	2.37	ug/L	96
5) Vinyl chloride	1.40	62	4037	2.02	ug/L #	54
6) Bromomethane	1.62	94	2388	2.32	ug/L	80
8) Chloroethane	1.69	64	2408	2.01	ug/L #	78
9) Trichlorofluoromethane	1.89	101	6212	2.10	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	4180	2.61	ug/L #	82
12) 1,1-Dichloroethene	2.28	96	3497	2.38	ug/L #	1
13) Acetone	2.32	43	5046	4.40	ug/L	95
14) Carbon disulfide	2.48	76	10500	2.06	ug/L	97
15) Methyl Acetate	2.62	43	5074	2.55	ug/L	96
16) Methylene chloride	2.70	84	4559	2.32	ug/L	97
17) trans-1,2-Dichloroethene	2.99	96	3701	2.12	ug/L	92
18) Methyl tert-butyl Ether	3.00	73	10678	1.93	ug/L	98
19) 1,1-Dichloroethane	3.45	63	7127	2.13	ug/L #	88
20) cis-1,2-Dichloroethene	4.23	96	4004	2.05	ug/L	82
22) 2-Butanone	4.27	43	5231	3.67	ug/L	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	2397m	2.27	ug/L	
25) Chloroform	4.68	83	8851	2.51	ug/L	96
27) 1,2-Dichloroethane	5.41	62	6546	2.30	ug/L #	91
29) Cyclohexane	5.00	56	4721	1.81	ug/L	97
30) 1,1,1-Trichloroethane	4.92	97	7264	2.33	ug/L #	76
31) Carbon tetrachloride	5.14	117	5870	2.08	ug/L	99
33) Benzene	5.39	78	15860	2.25	ug/L	100
34) Trichloroethene	6.19	95	4357	2.37	ug/L	93
35) Methylcyclohexane	6.42	83	5153	1.87	ug/L	95
37) 1,2-Dichloropropane	6.44	63	4371	2.22	ug/L #	88
38) Bromodichloromethane	6.76	83	5251	2.01	ug/L #	94
39) cis-1,3-Dichloropropene	7.27	75	5869m	2.01	ug/L	
40) 4-Methyl-2-pentanone	7.46	43	10261	4.20	ug/L	93
42) Toluene	7.64	91	15896	2.12	ug/L	88
44) trans-1,3-Dichloropropene	7.89	75	5197	1.84	ug/L	95
45) 1,1,2-Trichloroethane	8.07	97	4003	2.14	ug/L	92
46) Tetrachloroethene	8.23	164	3160	1.99	ug/L	94
48) 2-Hexanone	8.36	43	9412	4.91	ug/L #	89
49) Dibromochloromethane	8.48	129	4709	2.09	ug/L	88
50) 1,2-Dibromoethane	8.59	107	3837	1.98	ug/L #	97
51) Chlorobenzene	9.12	112	11005	2.15	ug/L	97
52) Ethylbenzene	9.25	91	14920	1.83	ug/L	94
53) m,p-Xylene	9.38	106	5902	1.88	ug/L	89
54) o-xylene	9.78	106	5690	1.81	ug/L	95
55) Styrene	9.80	104	8514	1.63	ug/L	89
56) Isopropylbenzene	10.17	105	12640	1.57	ug/L #	95
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	7198	2.31	ug/L #	95
59) 1,2,3-Trichloropropane	10.50	75	5091	2.10	ug/L	96
61) Bromoform	9.96	173	3361	2.38	ug/L #	94
62) 1,3-Dichlorobenzene	11.42	146	6582	2.03	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	7052	2.11	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	8180	2.36	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.66	75	1290	2.35	ug/L #	84
67) 1,3,5-Trichlorobenzene	12.89	180	4177	1.74	ug/L	97
68) 1,2,4-trichlorobenzene	13.51	180	2674	1.47	ug/L #	94
69) Naphthalene	13.75	128	6606	1.28	ug/L #	84
70) 1,2,3-Trichlorobenzene	14.00	180	2901	1.49	ug/L	96

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

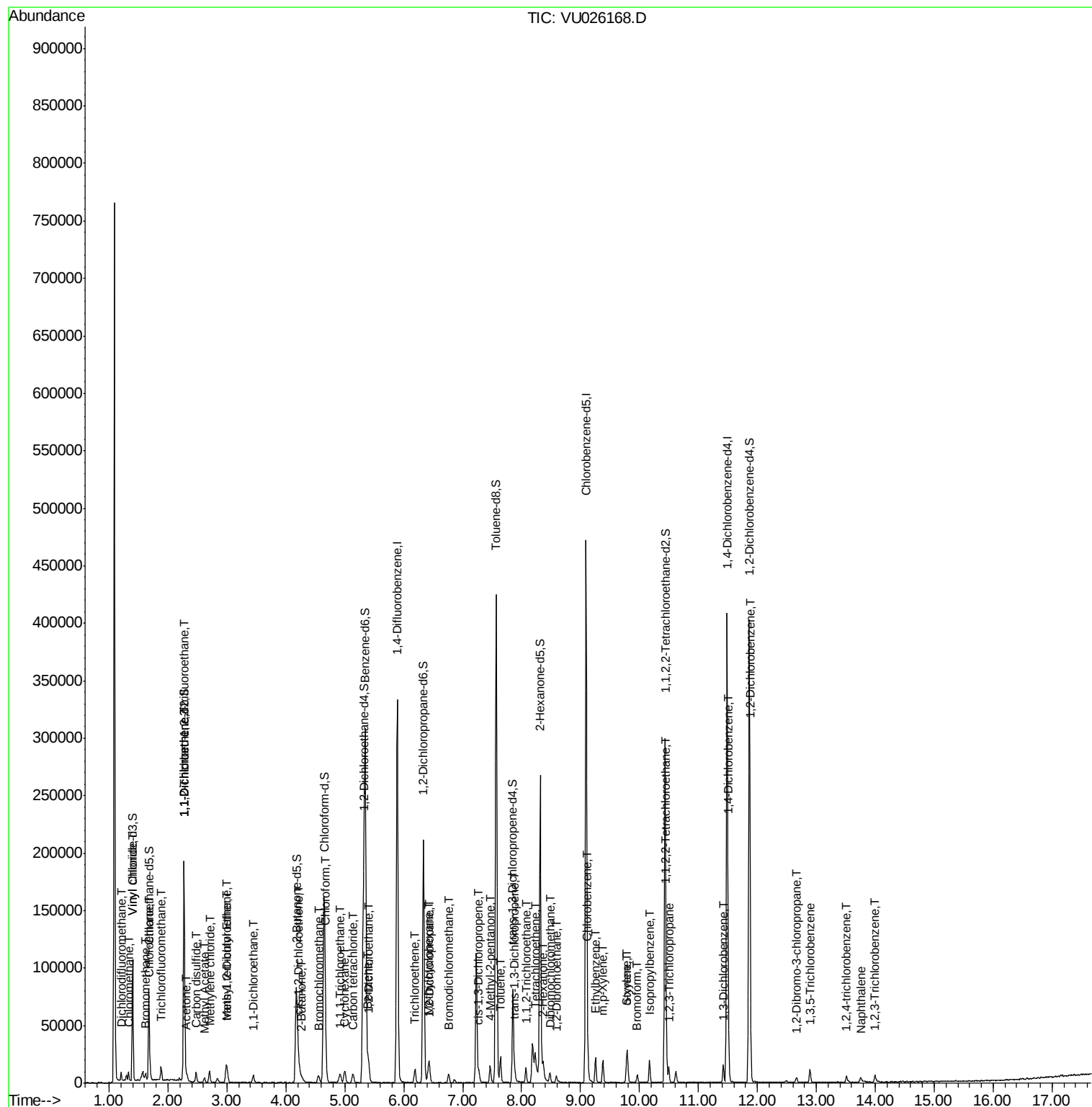
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\
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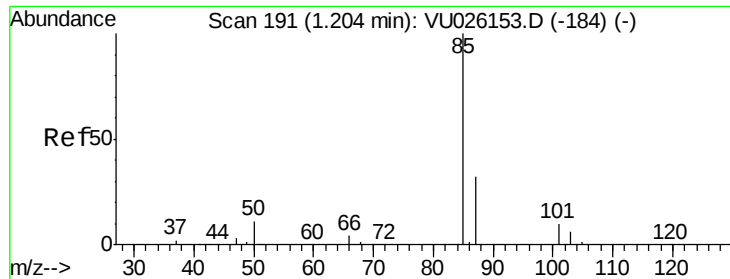
Instrument :
MSVOA_U
ClientSampleId :
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.09 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 85 Resp: 4605

Ion Ratio Lower Upper

85 100

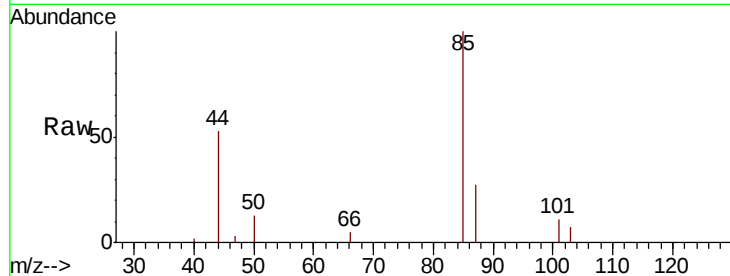
87 28.0 26.1 39.1

Manual Integrations

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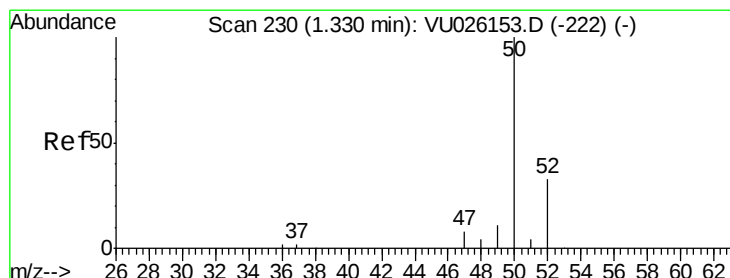
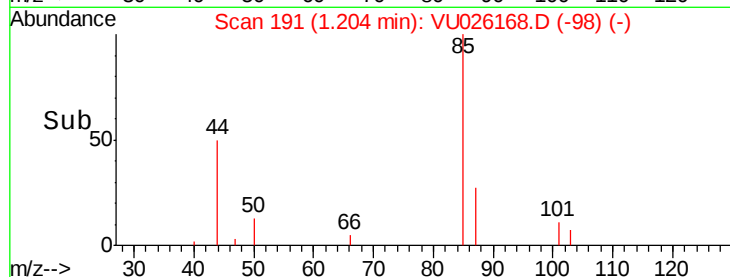
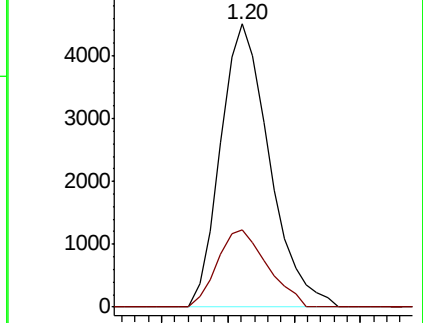
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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.37 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU026168.D

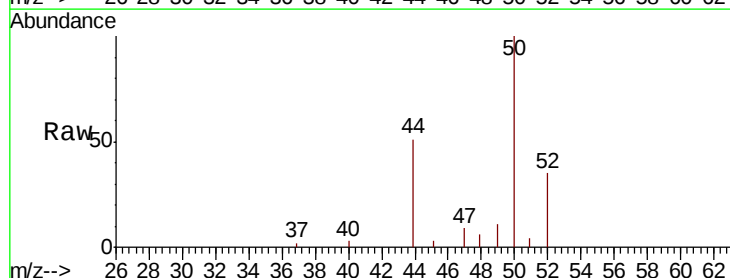
Acq: 16 Aug 2018 00:27

Tgt Ion: 50 Resp: 4756

Ion Ratio Lower Upper

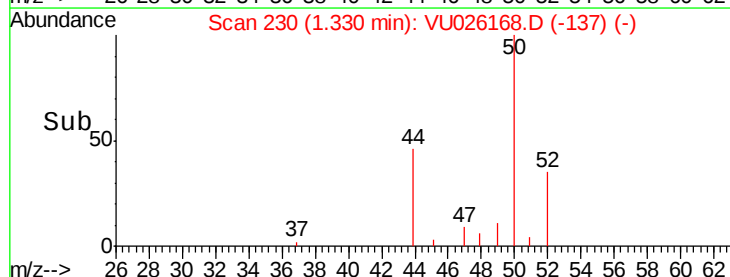
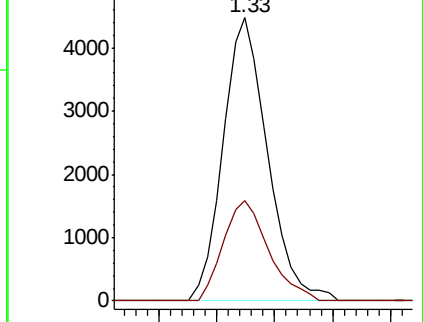
50 100

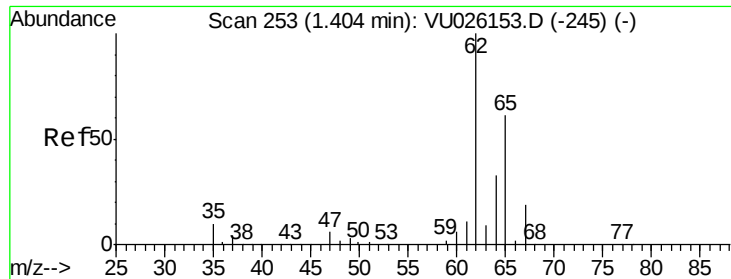
52 35.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.02 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 62 Resp: 4037

Ion Ratio Lower Upper

62 100

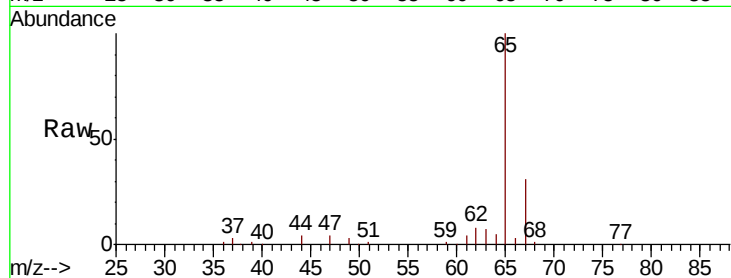
64 58.6 23.0 42.8#

Manual Integrations

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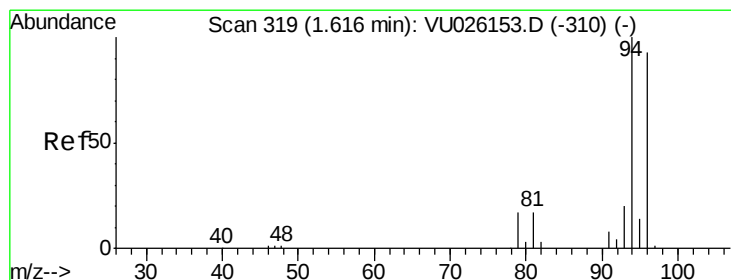
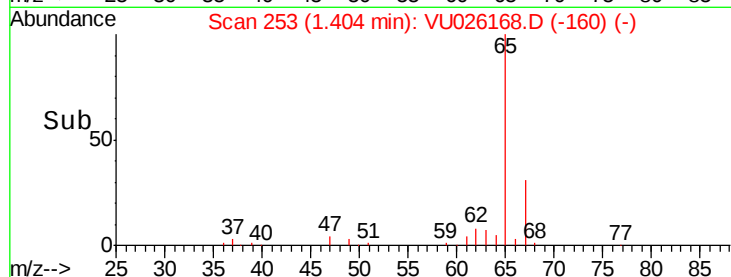
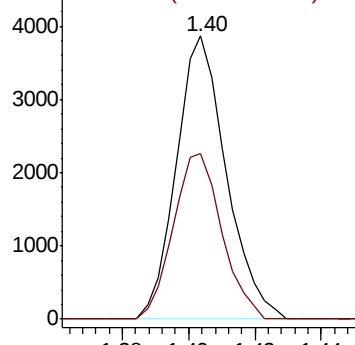
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.32 ug/L

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU026168.D

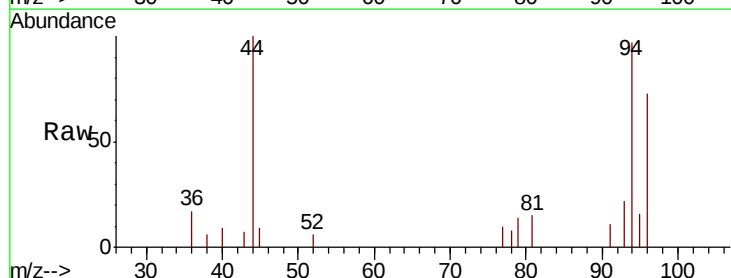
Acq: 16 Aug 2018 00:27

Tgt Ion: 94 Resp: 2388

Ion Ratio Lower Upper

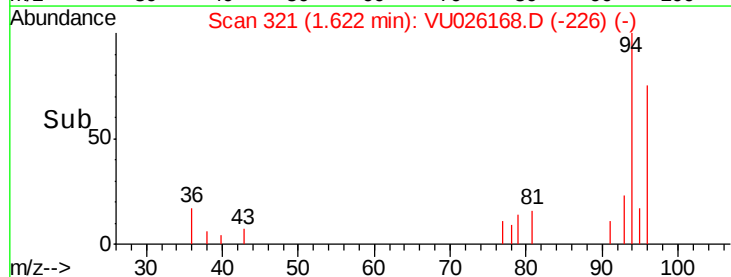
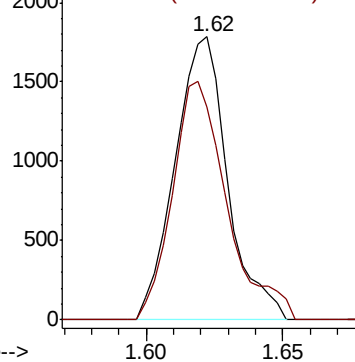
94 100

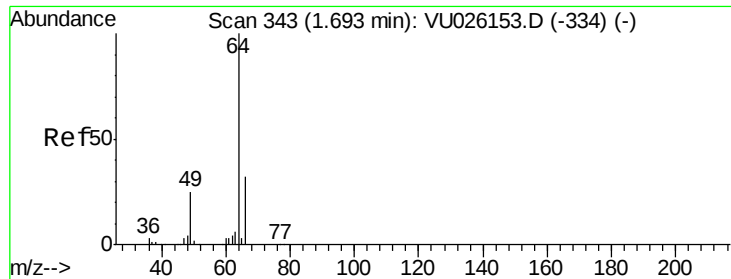
96 75.2 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.01 ug/L

RT: 1.69 min Scan# 343

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 64 Resp: 2408

Ion Ratio Lower Upper

64 100

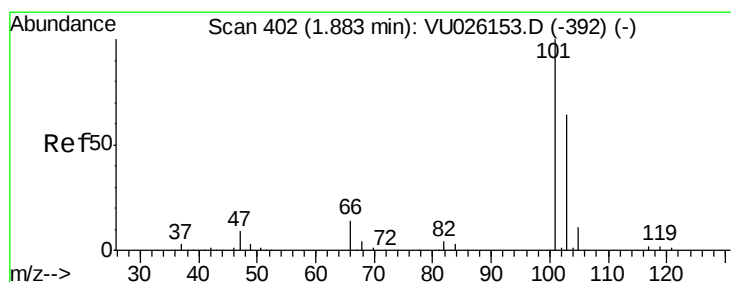
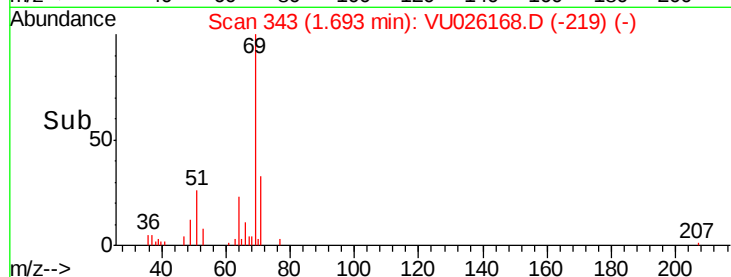
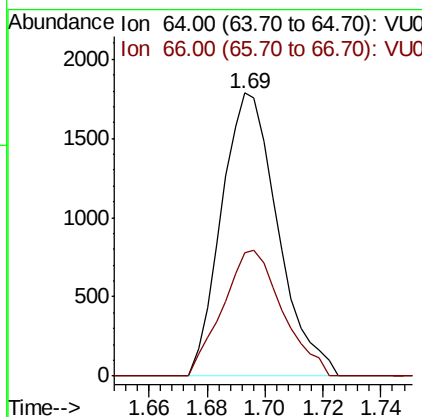
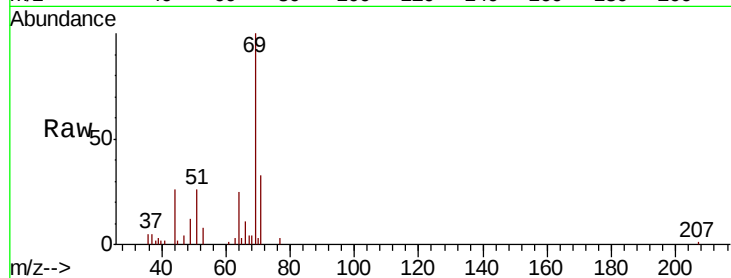
66 43.7 22.2 41.2#

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.10 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU026168.D

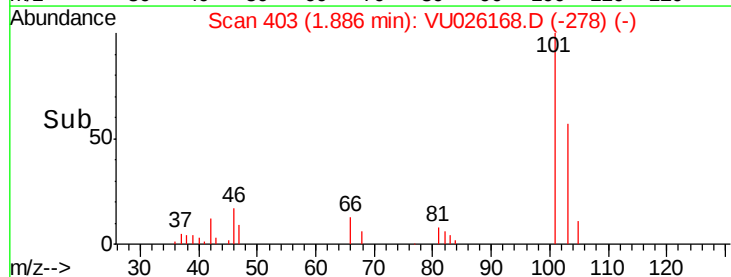
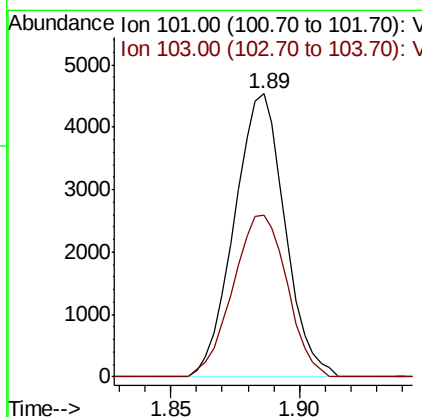
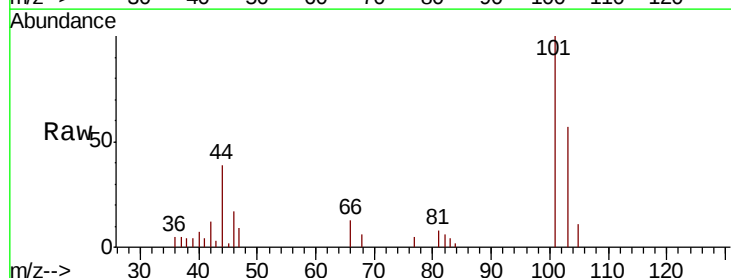
Acq: 16 Aug 2018 00:27

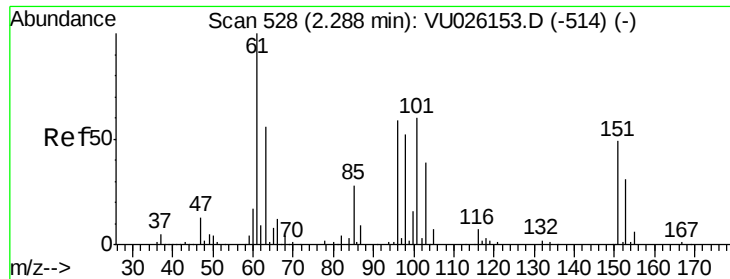
Tgt Ion:101 Resp: 6212

Ion Ratio Lower Upper

101 100

103 61.1 51.4 77.2





#10

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

Concen: 2.61 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

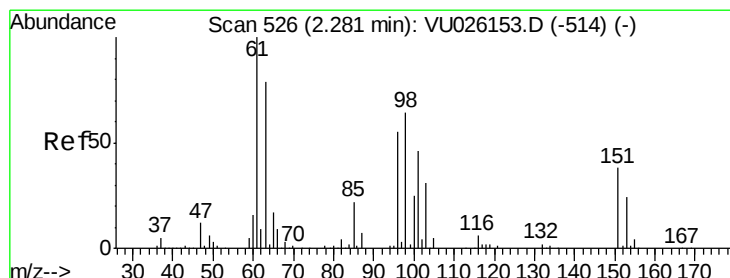
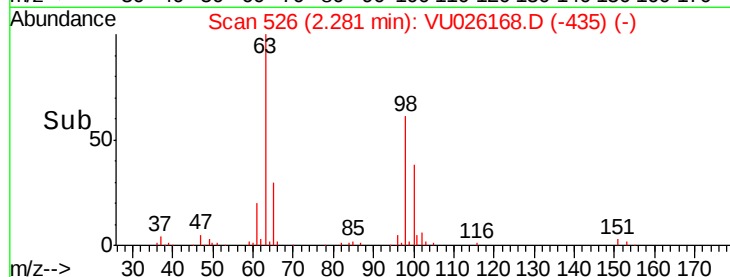
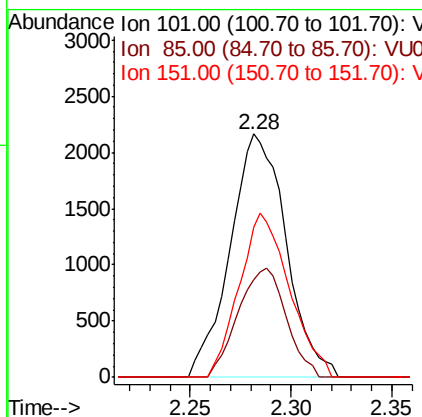
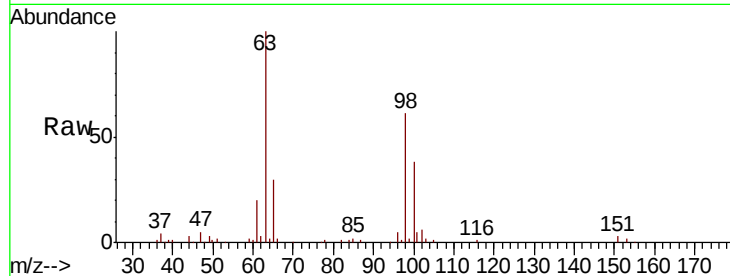
ClientSampled :

MDL06

Tot Ion:	101	Resp:	4180
Ion Ratio	Lower	Upper	
101	100		
85	38.8	36.6	55.0
151	60.6	63.8	95.8#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.38 ug/L

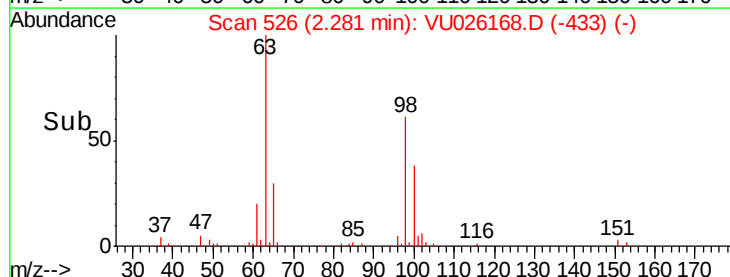
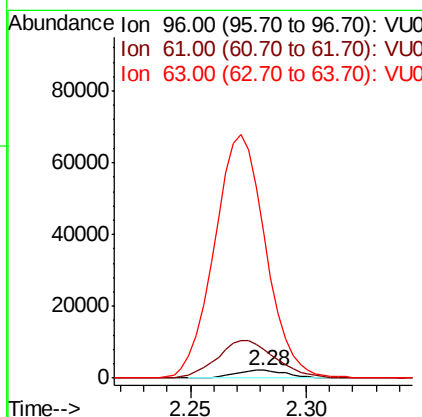
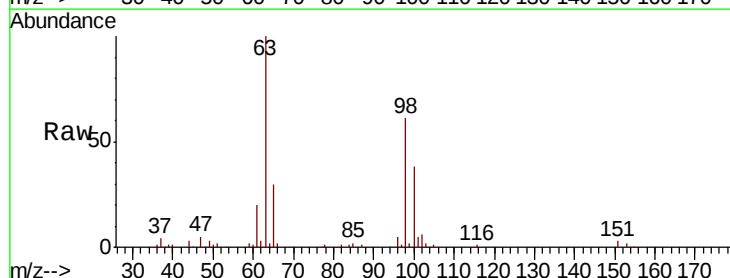
RT: 2.28 min Scan# 526

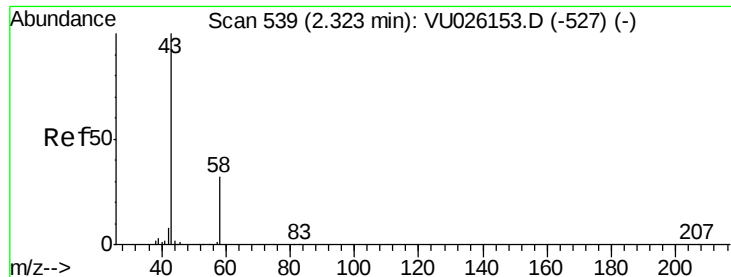
Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Tgt Ion:	96	Resp:	3497
Ion Ratio	Lower	Upper	
96	100		
61	369.4	126.8	235.4#
63	1821.5	97.0	180.2#





#13

Acetone

Concen: 4.40 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 43 Resp: 5046

Ion Ratio Lower Upper

43 100

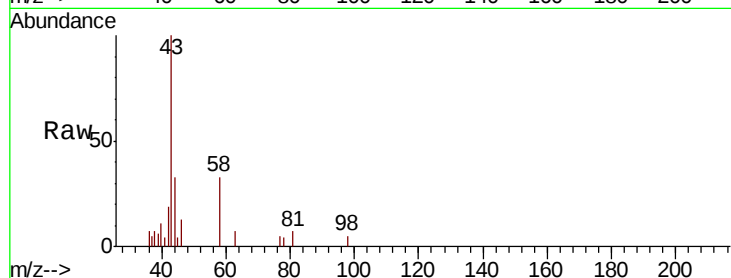
58 28.5 0.0 62.6

Manual Integrations

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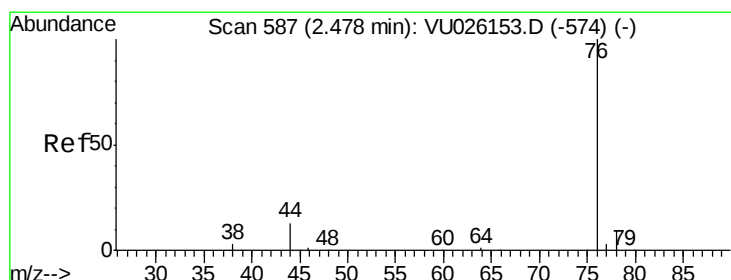
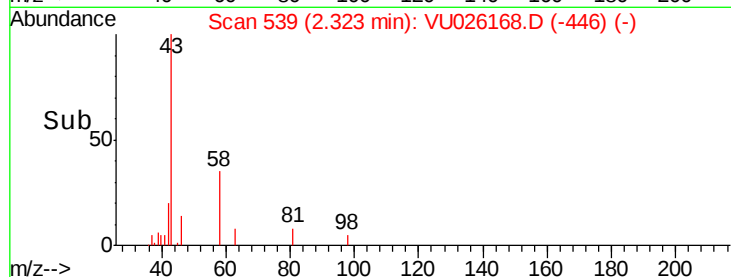
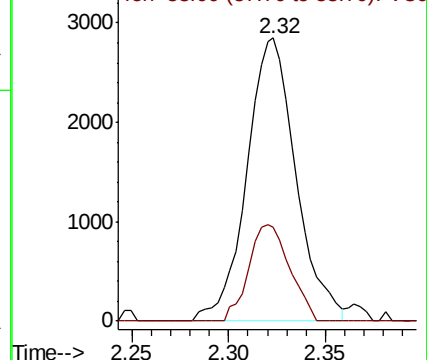
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 2.06 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU026168.D

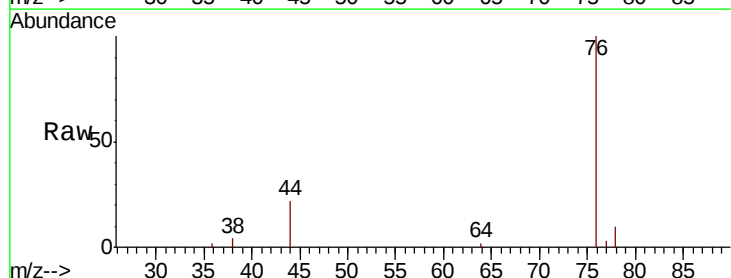
Acq: 16 Aug 2018 00:27

Tgt Ion: 76 Resp: 10500

Ion Ratio Lower Upper

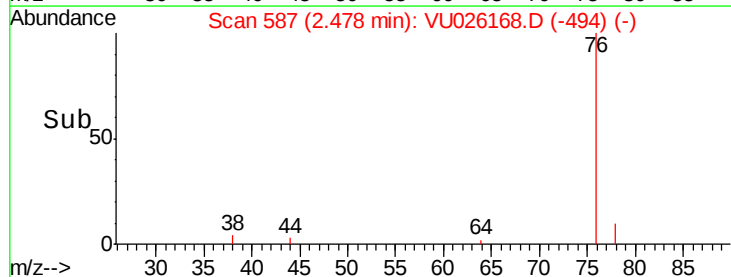
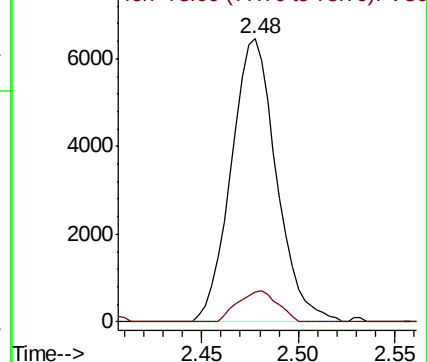
76 100

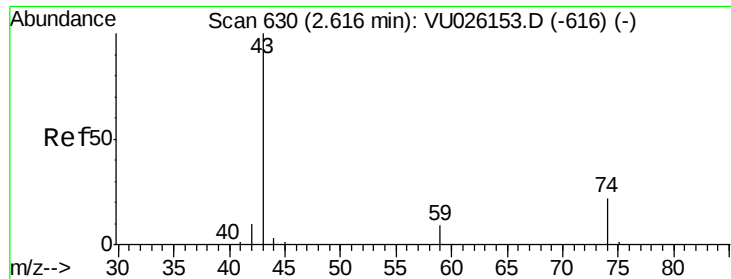
78 10.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





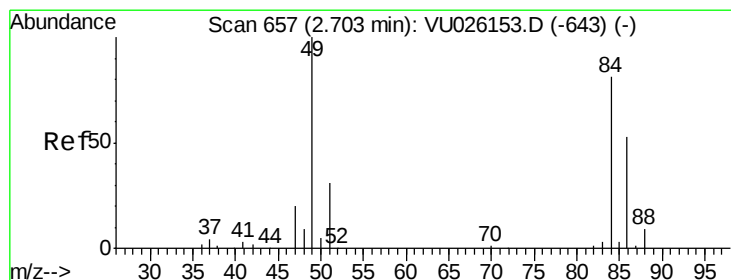
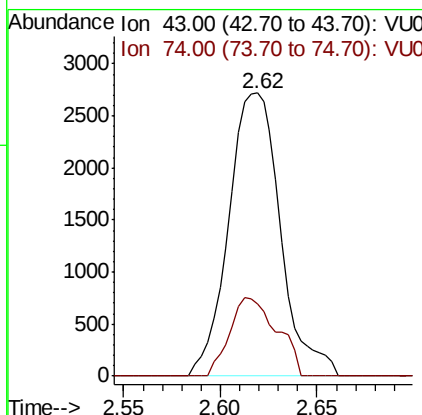
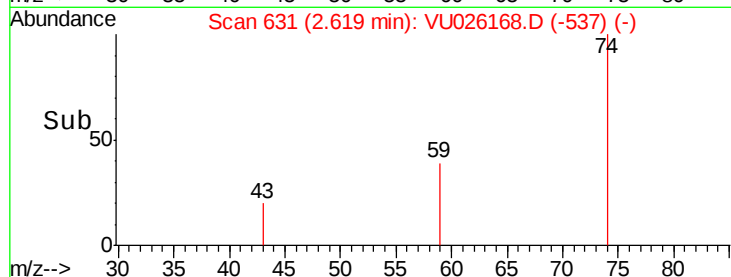
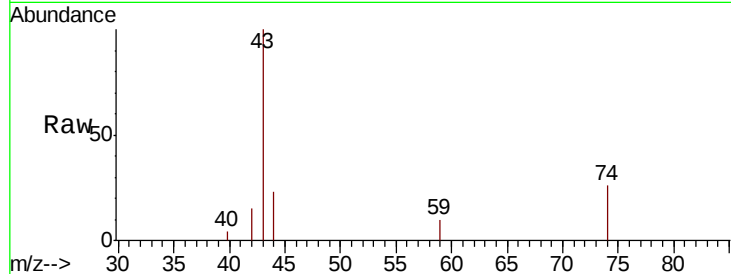
#15
Methvl Acetate
Concen: 2.55 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion: 43 Resp: 5074
Ion Ratio Lower Upper
43 100
74 25.1 18.6 28.0

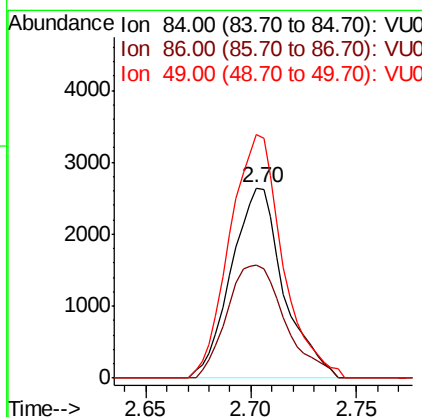
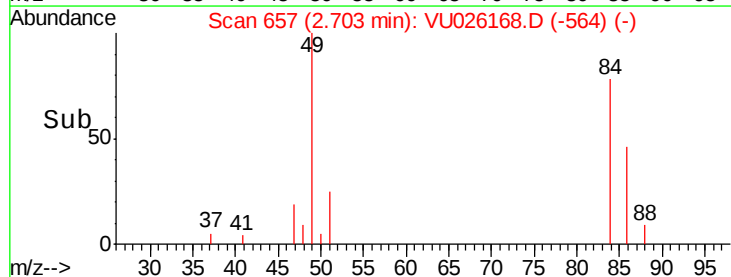
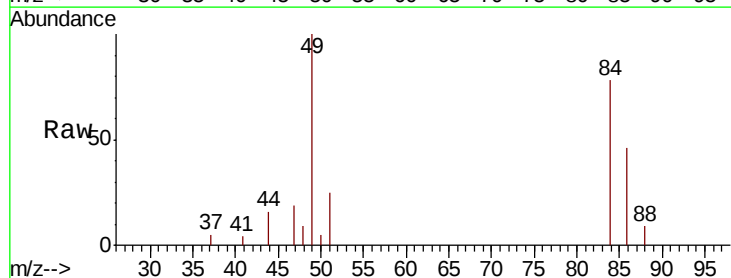
Manual Integrations
APPROVED

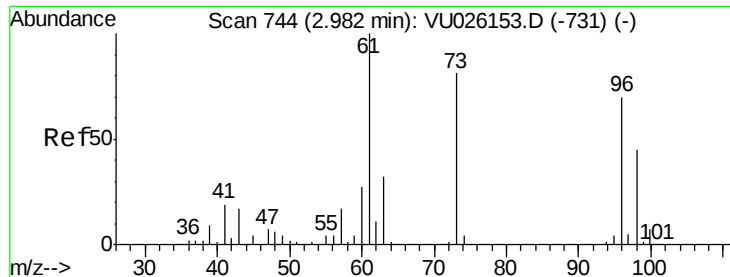
MMDadoda
8/16/2018 4:20:31 PM



#16
Methylene chloride
Concen: 2.32 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Tgt Ion: 84 Resp: 4559
Ion Ratio Lower Upper
84 100
86 59.2 44.0 81.6
49 128.0 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 2.12 ug/L

RT: 2.99 min Scan# 746

Delta R.T. 0.01 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

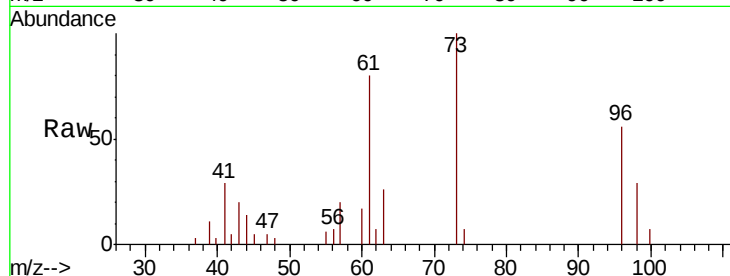
ClientSampled :

MDL06

Tot Ion:	96	Resp:	3701
Ion	Ratio	Lower	Upper
96	100		
61	144.2	96.7	179.5
98	51.4	43.6	81.0

Manual Integrations
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MMDadoda
8/16/2018 4:20:31 PM

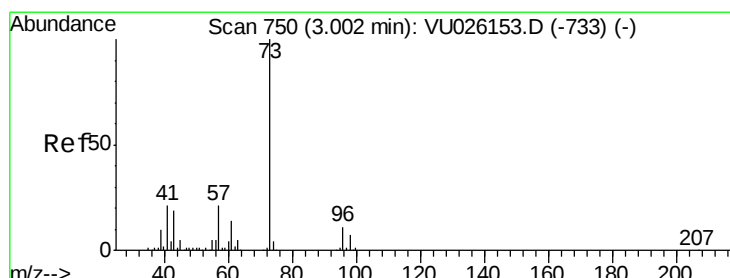
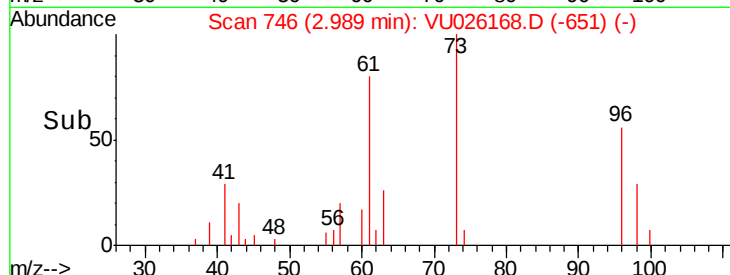
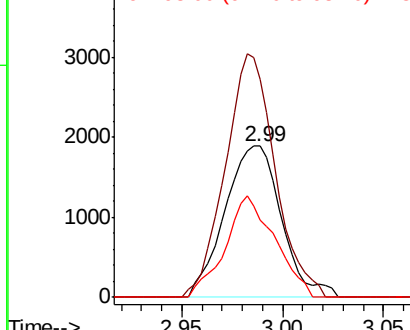


Abundance

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: 1.93 ug/L

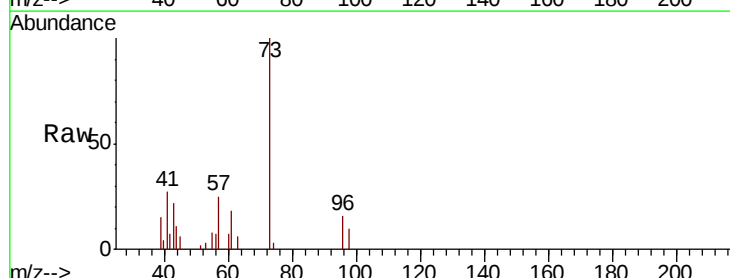
RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Tgt Ion:	73	Resp:	10678
Ion	Ratio	Lower	Upper
73	100		
43	21.2	16.2	24.4
57	24.0	18.2	27.2

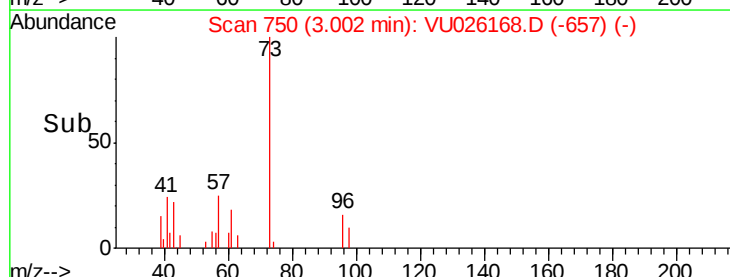
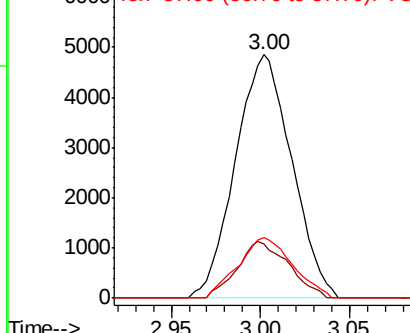


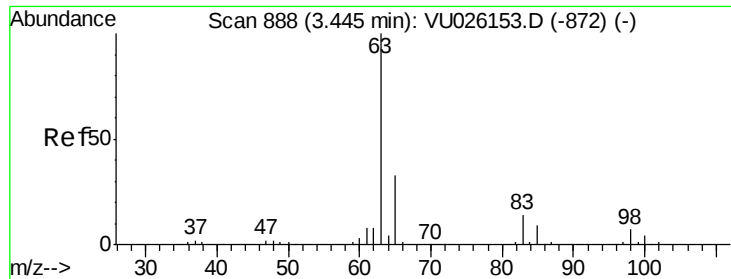
Abundance

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





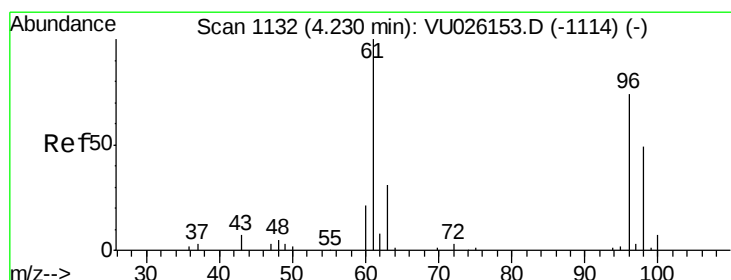
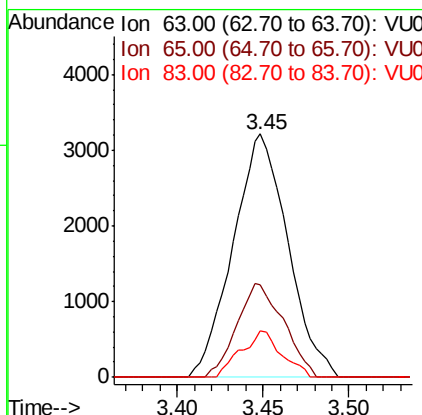
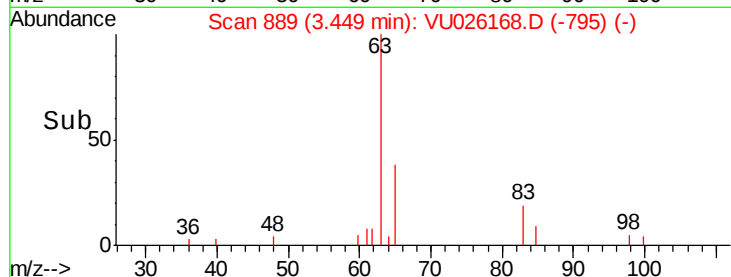
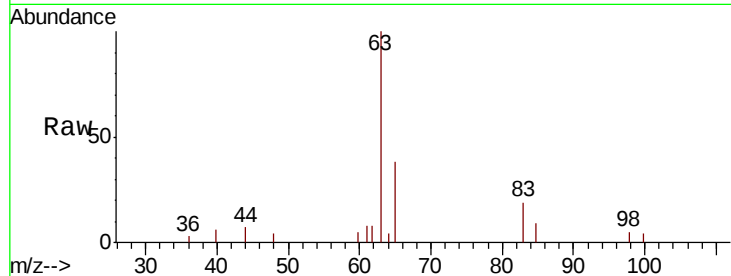
#19
 1,1-Dichloroethane
 Concen: 2.13 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
63	100		
65	37.9	22.1	41.1
83	19.1	9.4	17.4

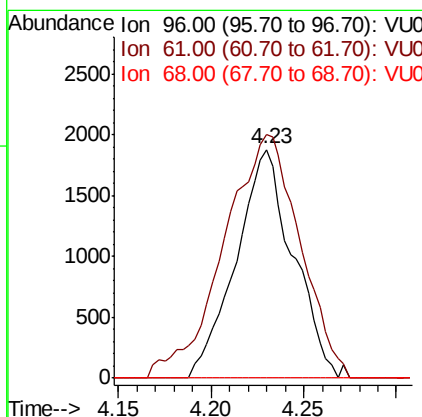
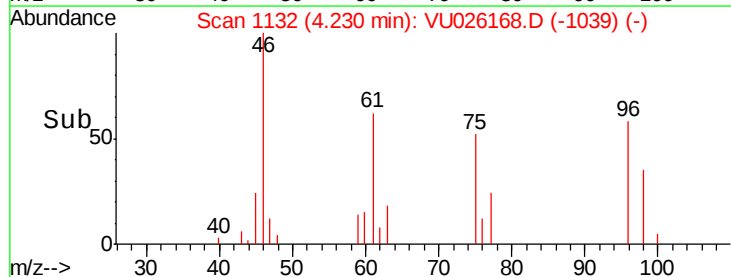
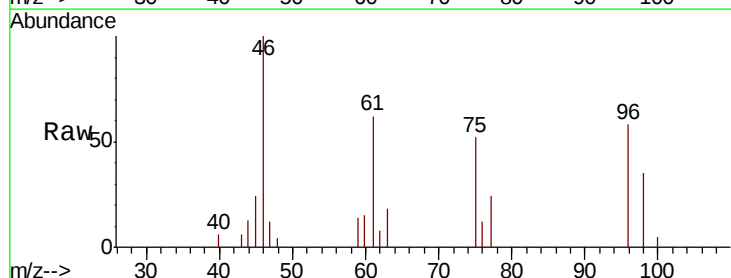
Manual Integrations
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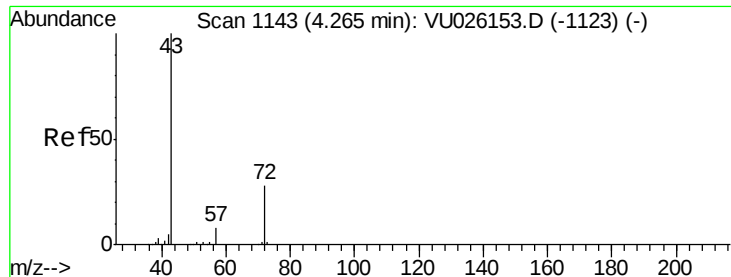
MMDadoda
 8/16/2018 4:20:31 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.05 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	106.4	88.6	164.6
68	0.0	0.0	0.0





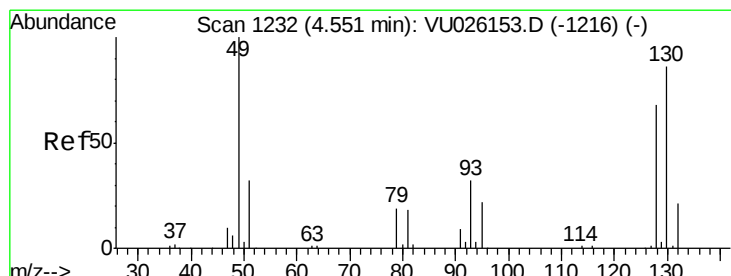
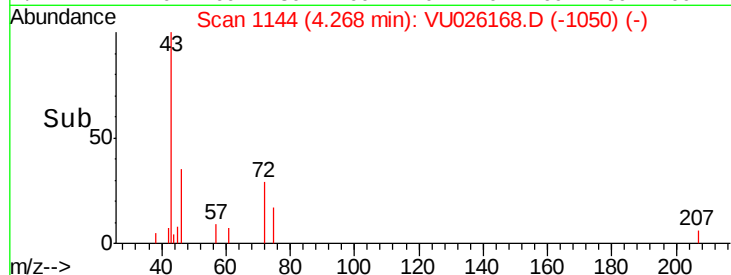
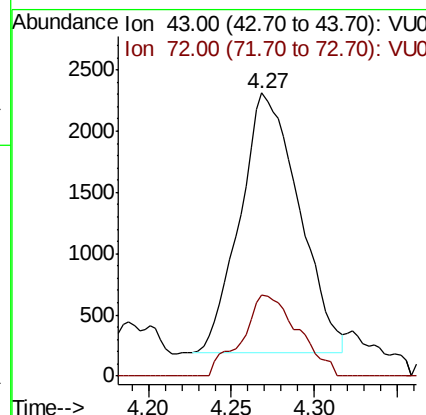
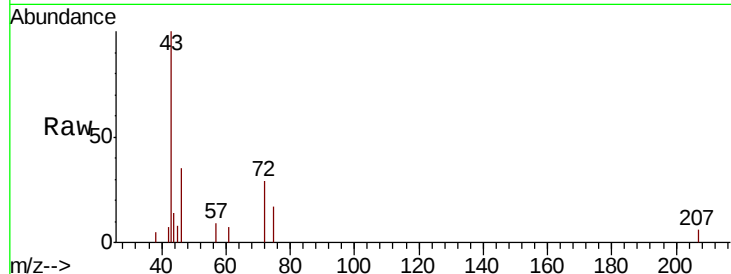
#22
2-Butanone
Concen: 3.67 ug/L
RT: 4.27 min Scan# 1144
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion: 43 Resp: 5231
Ion Ratio Lower Upper
43 100
72 29.9 13.4 40.1

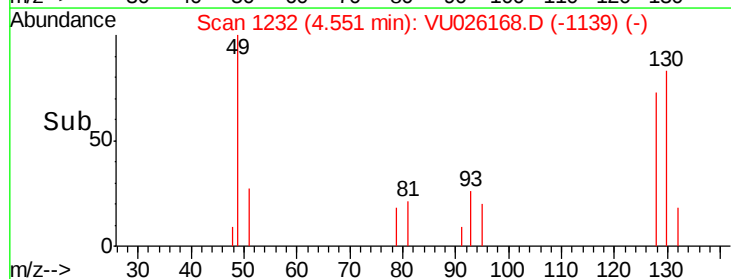
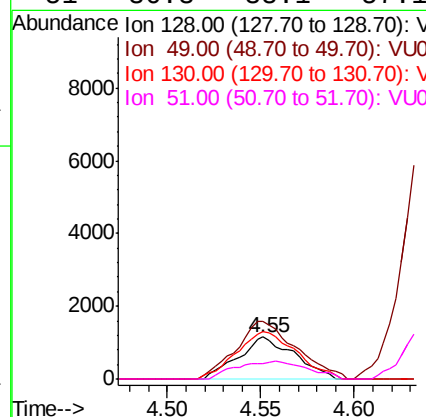
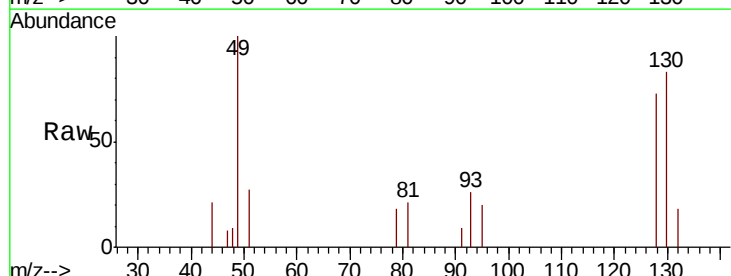
Manual Integrations
APPROVED

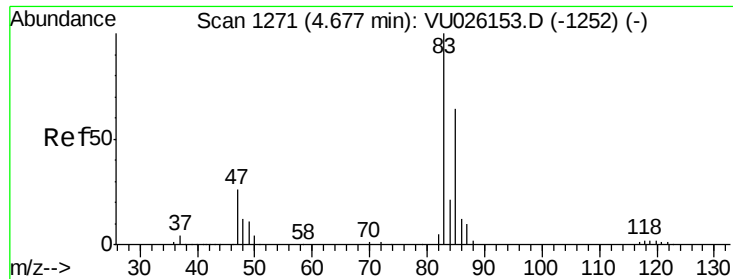
MMDadoda
8/16/2018 4:20:31 PM



#23
Bromochloromethane
Concen: 2.27 ug/L m
RT: 4.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Tgt Ion:128 Resp: 2397
Ion Ratio Lower Upper
128 100
49 136.8 101.3 188.1
130 113.9 86.4 160.4
51 36.3 38.1 57.1#





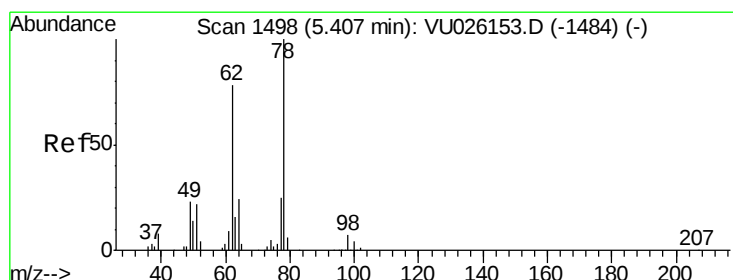
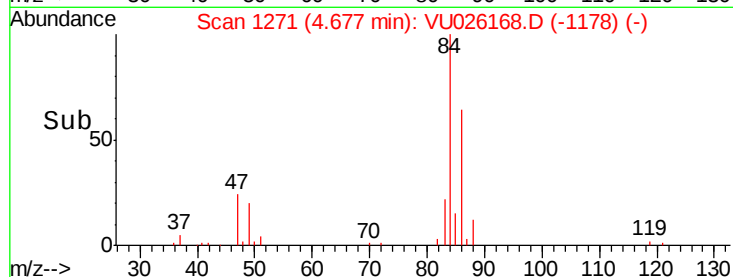
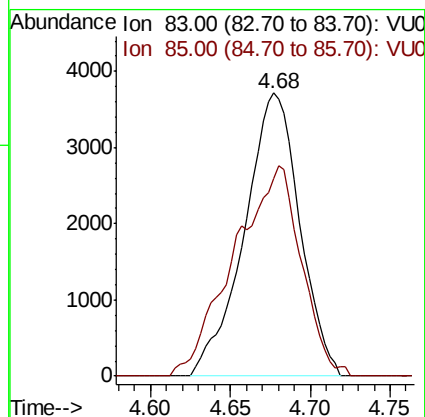
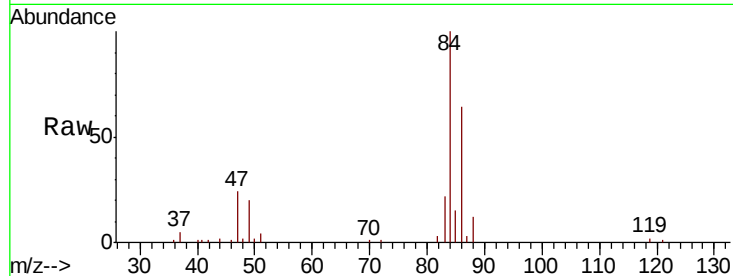
#25
Chloroform
Concen: 2.51 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	83	85	Resp	Lower	Upper
83	100				
85	69.8		46.3		86.1

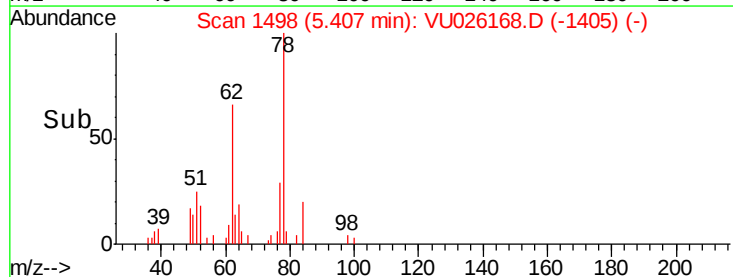
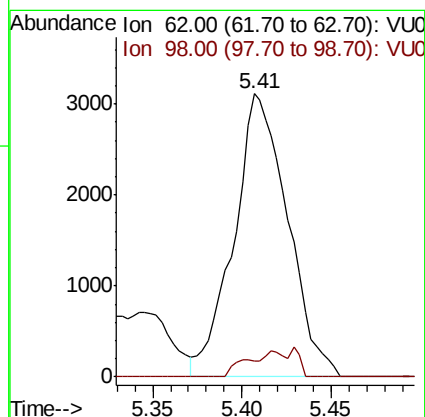
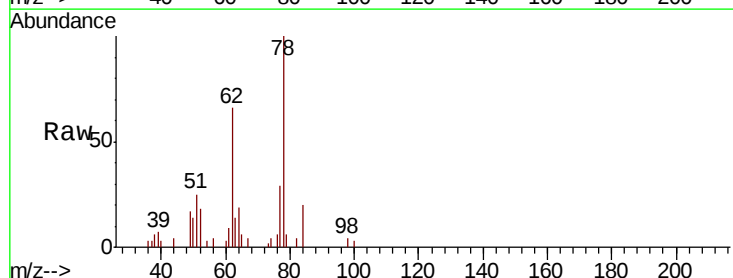
Manual Integrations
APPROVED

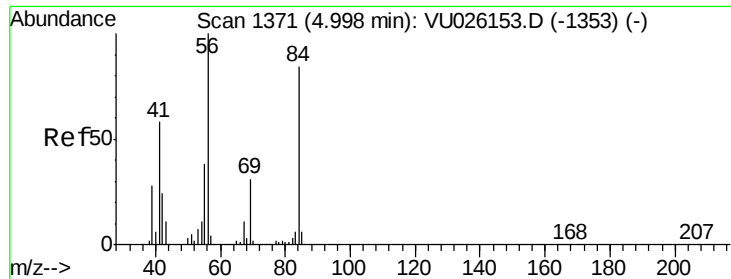
MMDadoda
8/16/2018 4:20:31 PM



#27
1,2-Dichloroethane
Concen: 2.30 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Tgt Ion	62	98	Resp	Lower	Upper
62	100				
98	5.5		7.0		10.4#





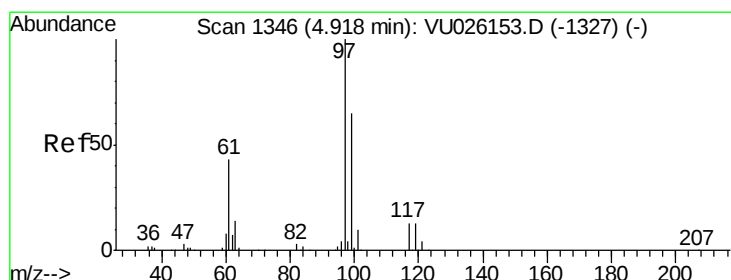
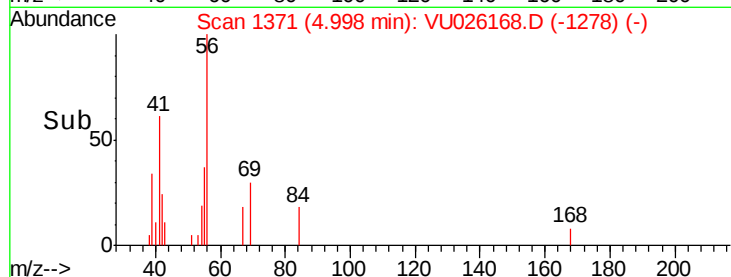
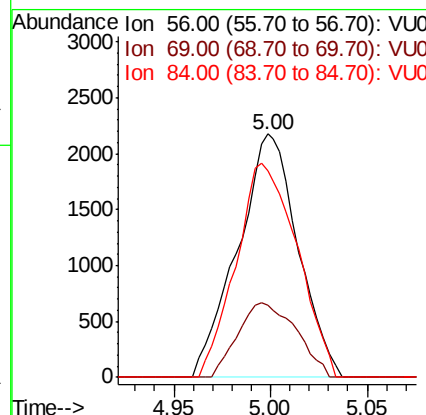
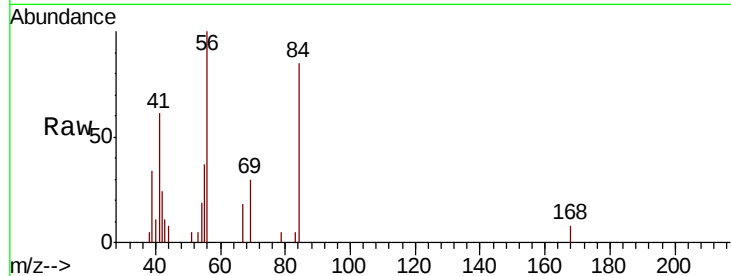
#29
Cyclohexane
Concen: 1.81 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.1	36.1
84	89.1	68.6	102.8

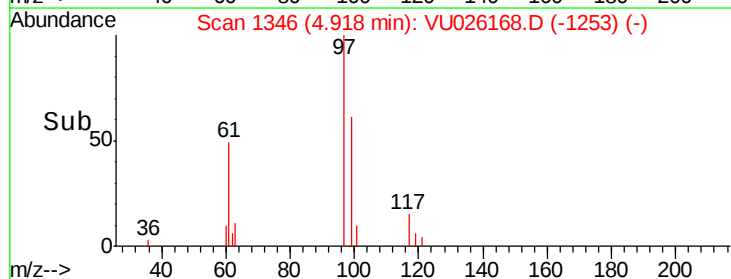
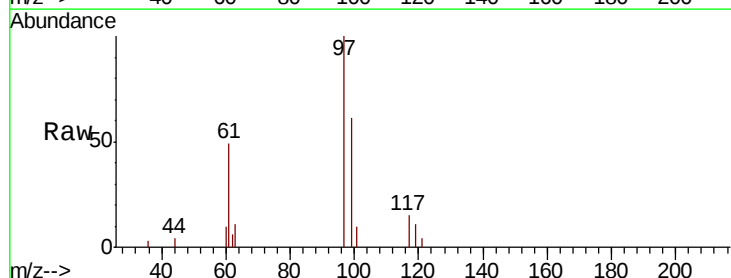
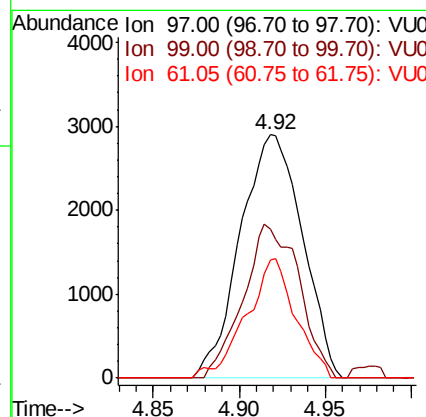
Manual Integrations
APPROVED

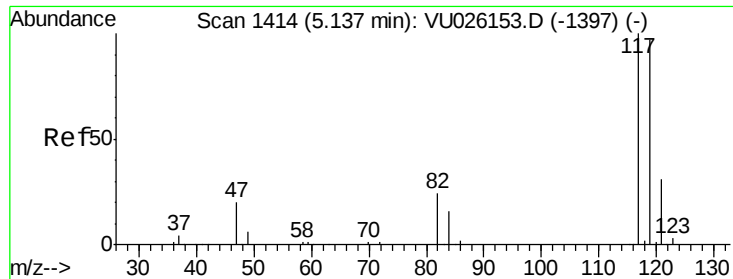
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.33 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	38.0	52.2	78.2#
61	38.1	35.4	53.0





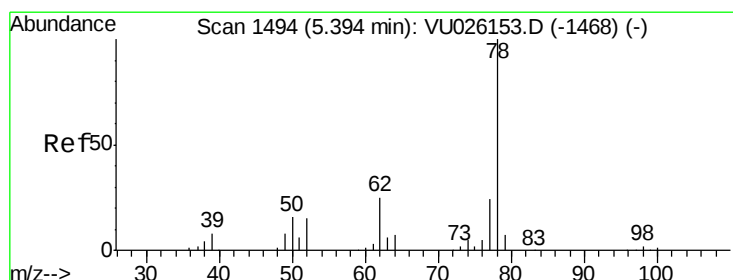
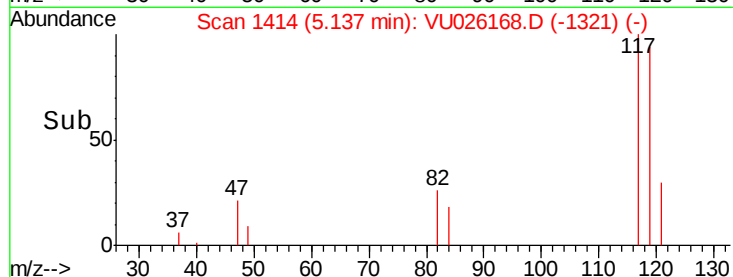
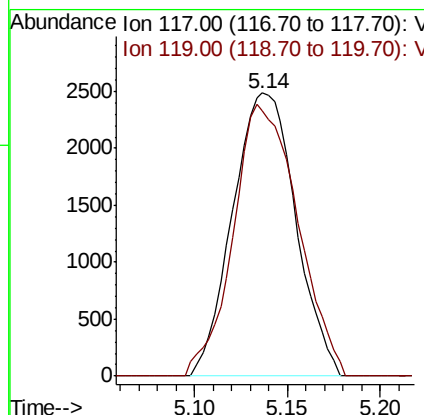
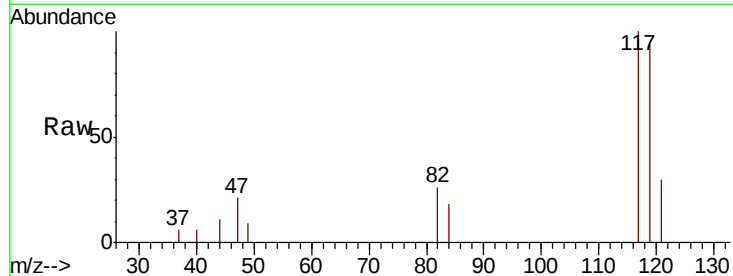
#31
Carbon tetrachloride
Concen: 2.08 ug/L
RT: 5.14 min Scan# 1414
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion:117 Resp: 5870
Ion Ratio Lower Upper
117 100
119 98.2 77.4 116.2

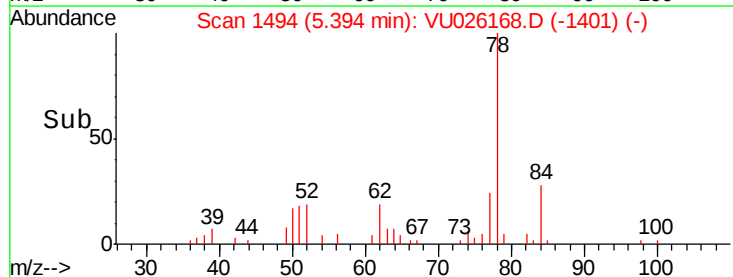
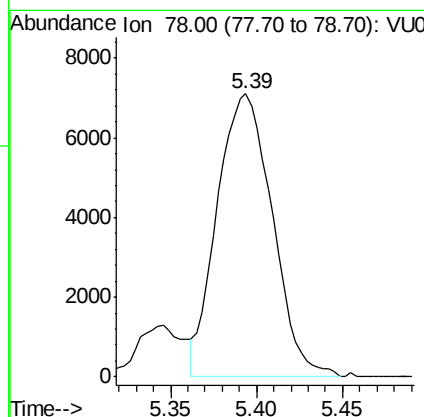
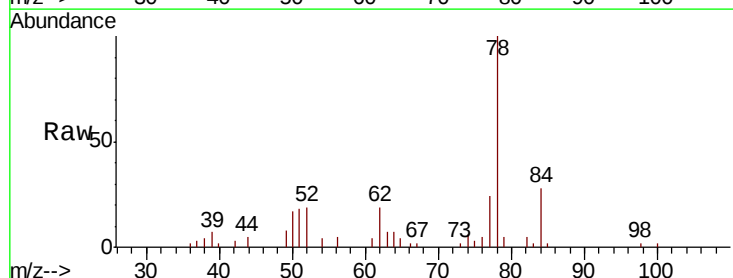
Manual Integrations
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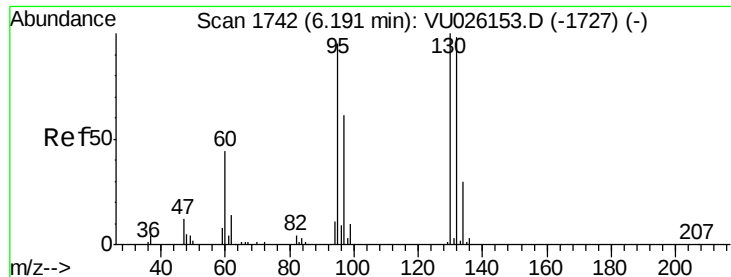
MMDadoda
8/16/2018 4:20:31 PM



#33
Benzene
Concen: 2.25 ug/L
RT: 5.39 min Scan# 1494
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Tgt Ion: 78 Resp: 15860





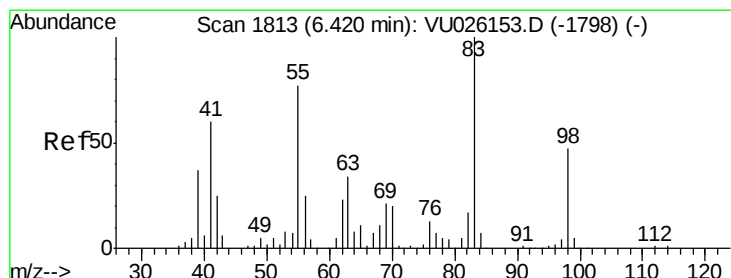
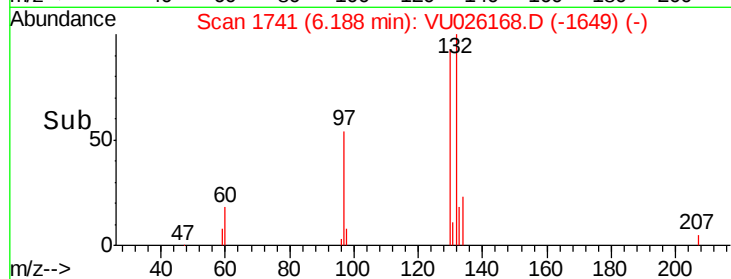
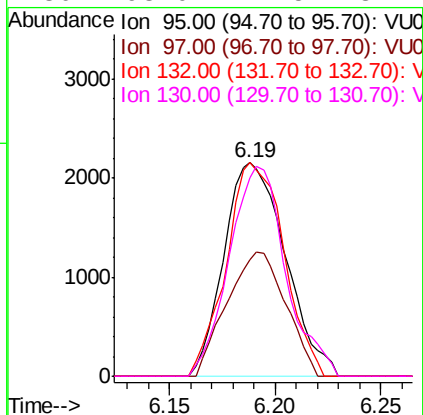
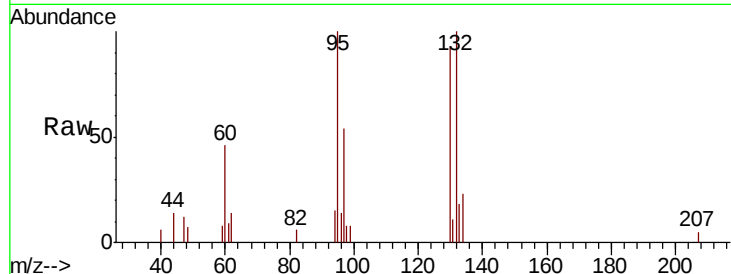
#34
 Trichloroethene
 Concen: 2.37 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion:	95	Resp:	4357
Ion	Ratio	Lower	Upper
95	100		
97	54.5	45.7	84.9
132	100.1	68.8	127.8
130	93.0	71.5	132.7

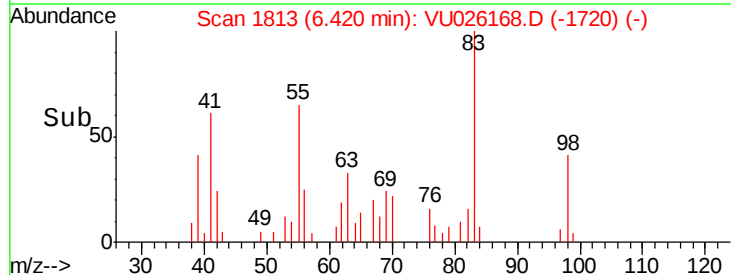
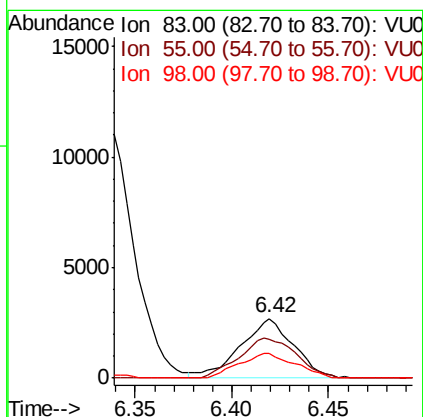
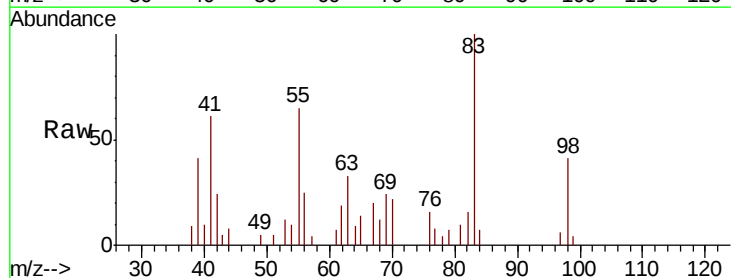
Manual Integrations
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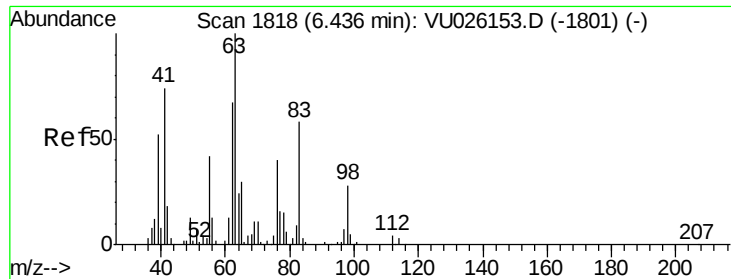
MMDadoda
 8/16/2018 4:20:31 PM



#35
 Methylcyclohexane
 Concen: 1.87 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Tgt Ion:	83	Resp:	5153
Ion	Ratio	Lower	Upper
83	100		
55	72.1	61.0	91.6
98	43.5	37.6	56.4





#37

1,2-Dichloropropane

Concen: 2.22 ug/L

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 63 Resp: 4371

Ion Ratio Lower Upper

63 100

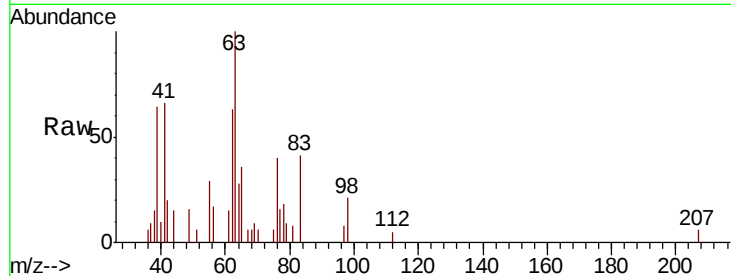
112 0.5 3.5 5.3#

Manual Integrations

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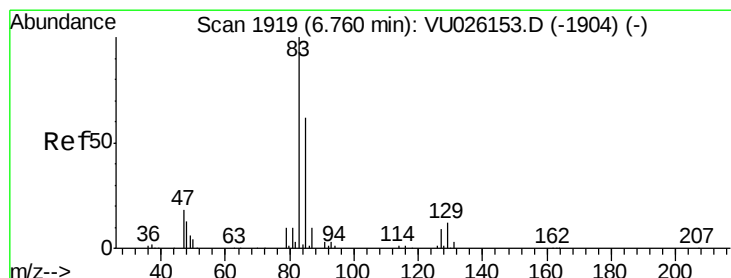
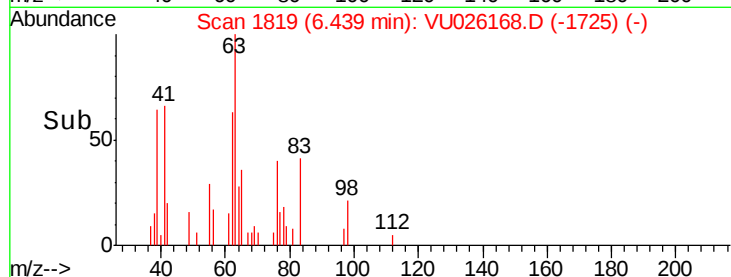
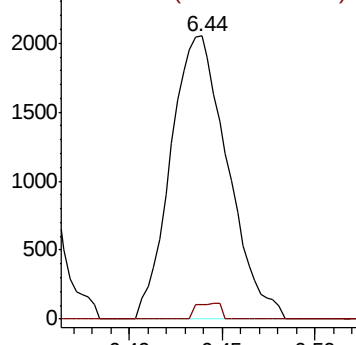
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 2.01 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

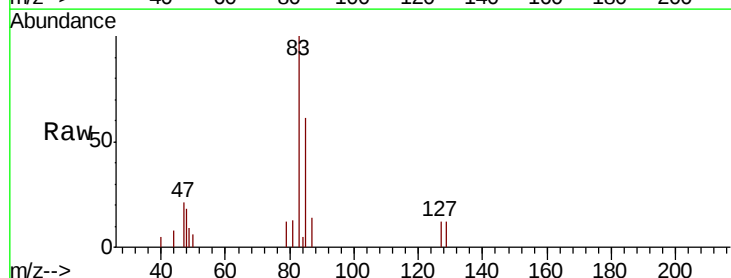
Tgt Ion: 83 Resp: 5251

Ion Ratio Lower Upper

83 100

85 61.0 46.0 85.4

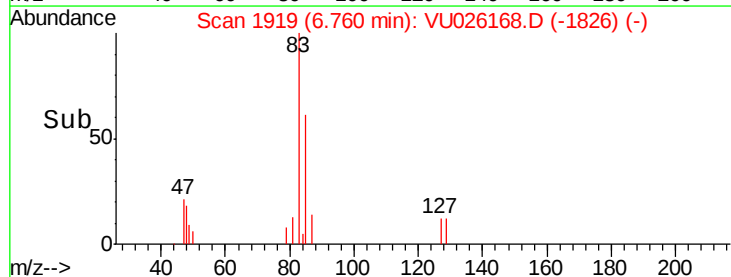
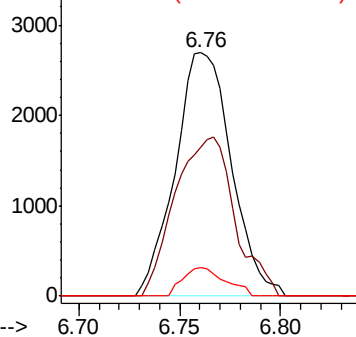
127 11.9 7.5 11.3#

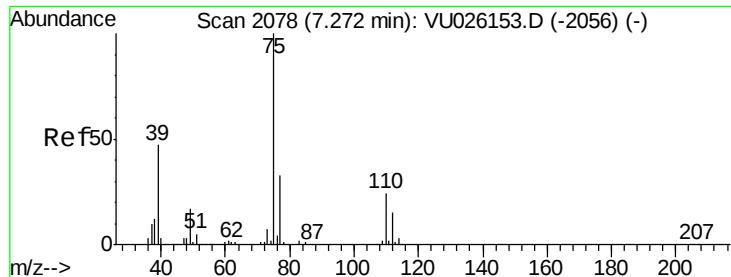


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V





#39

cis-1,3-Dichloropropene

Concen: 2.01 ug/L m

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 75 Resp: 5869

Ion Ratio Lower Upper

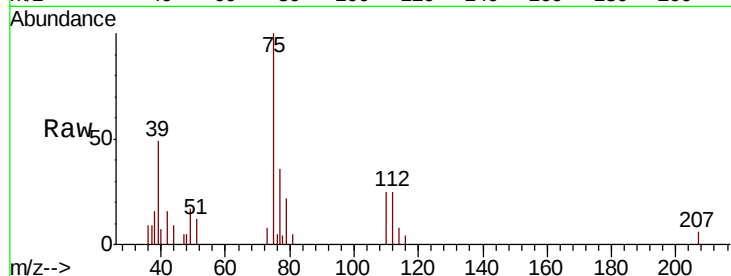
75 100

77 35.5 22.2 41.2

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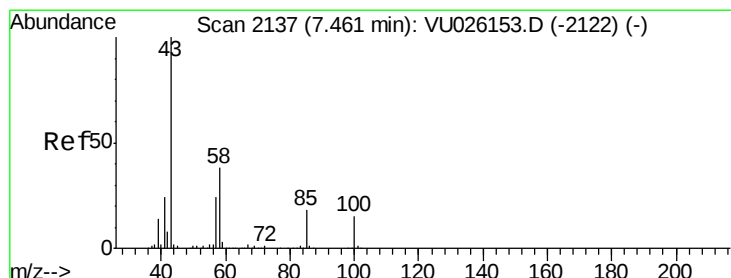
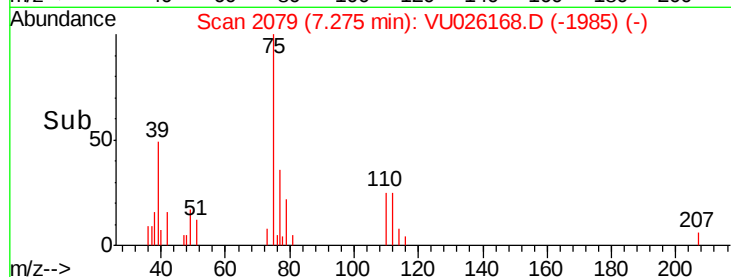
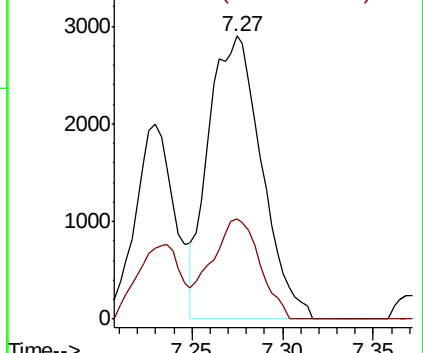
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Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#40

4-Methyl-2-pentanone

Concen: 4.20 ug/L

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

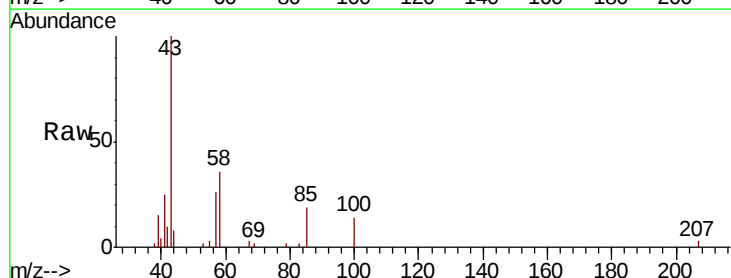
Tgt Ion: 43 Resp: 10261

Ion Ratio Lower Upper

43 100

58 35.3 31.8 47.8

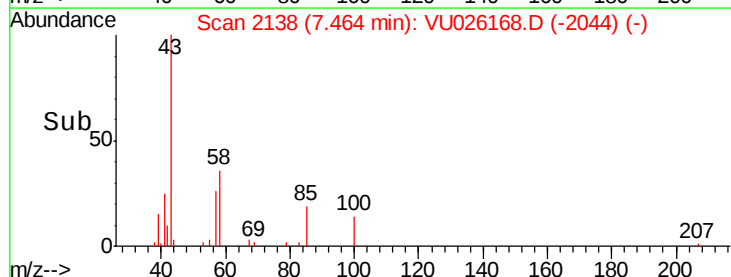
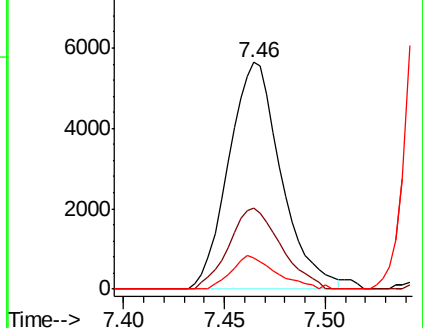
100 12.5 12.2 18.2

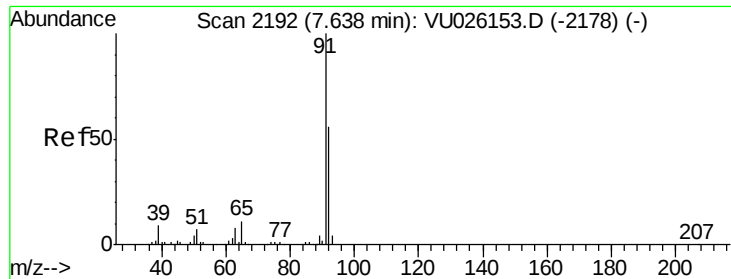


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#42

Toluene

Concen: 2.12 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 91 Resp: 15896

Ion Ratio Lower Upper

91 100

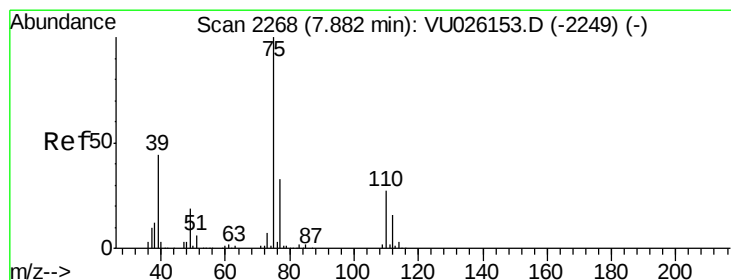
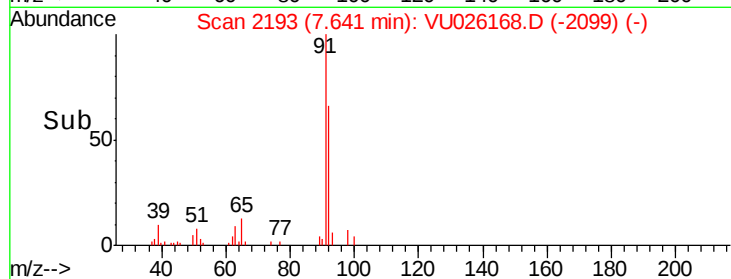
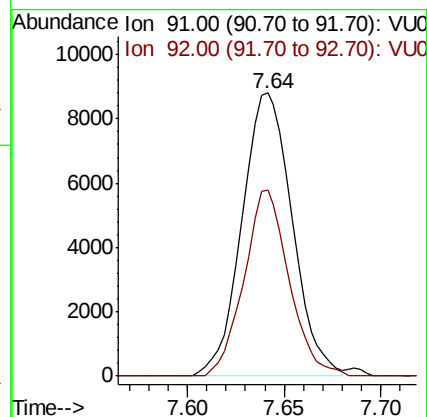
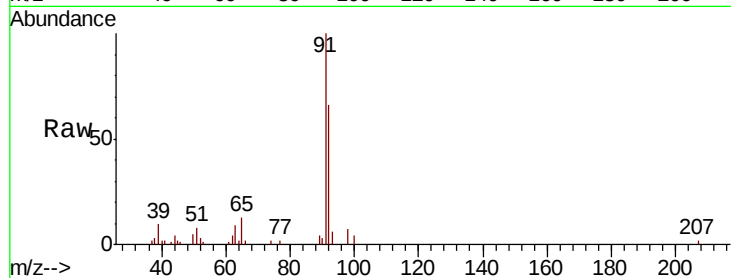
92 65.8 40.0 74.4

Manual Integrations

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#44

trans-1,3-Dichloropropene

Concen: 1.84 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026168.D

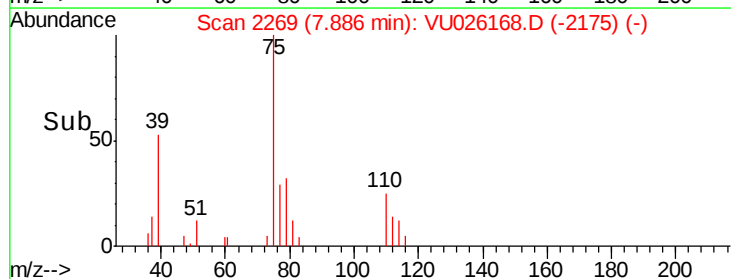
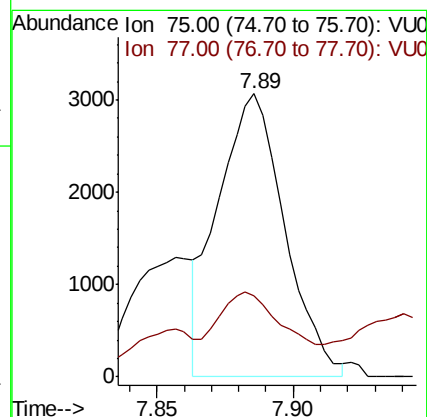
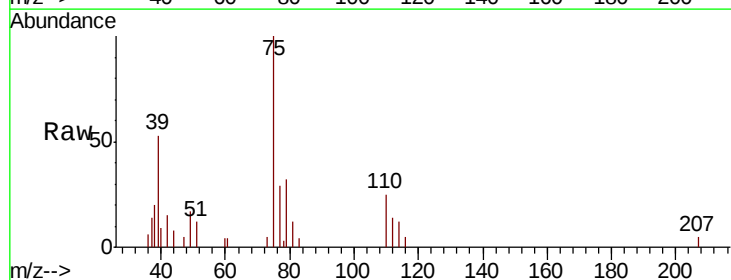
Acq: 16 Aug 2018 00:27

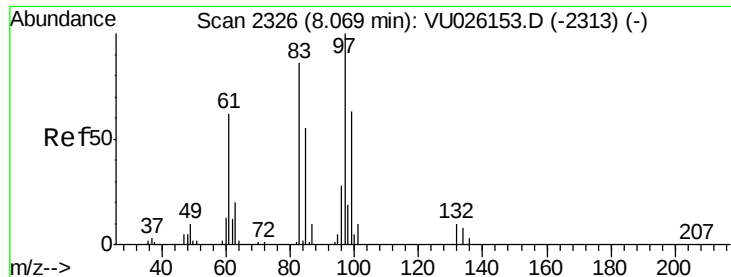
Tgt Ion: 75 Resp: 5197

Ion Ratio Lower Upper

75 100

77 28.8 22.0 41.0





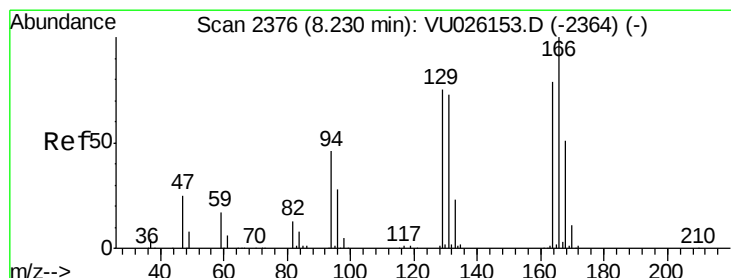
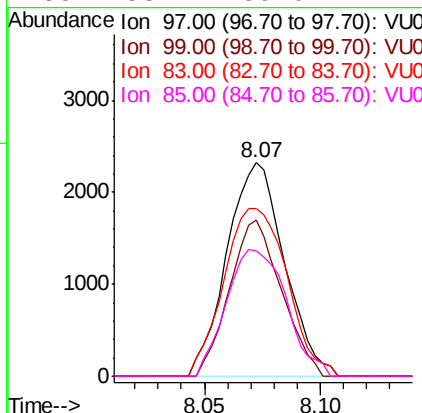
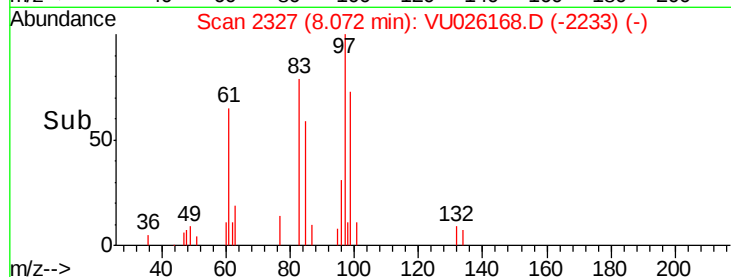
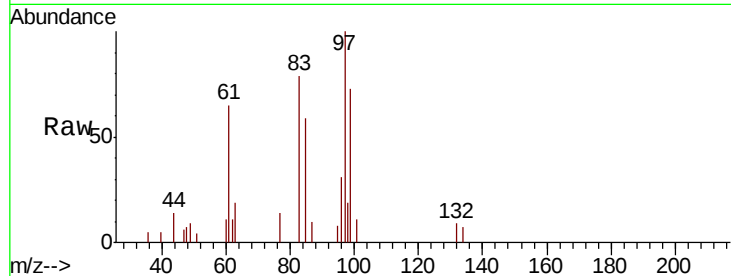
#45
 1,1,2-Trichloroethane
 Concen: 2.14 ug/L
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
97	100		
99	72.8	43.3	80.5
83	78.6	58.4	108.6
85	58.7	39.0	72.4

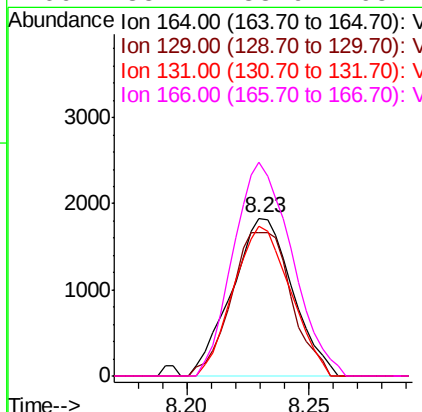
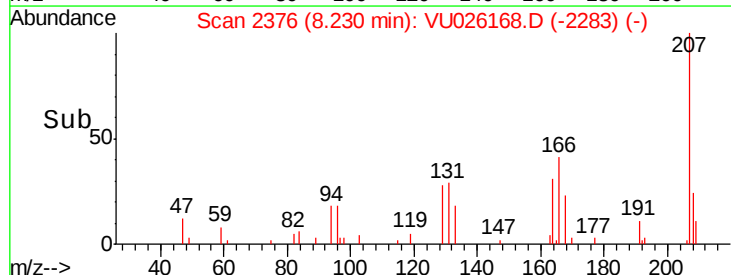
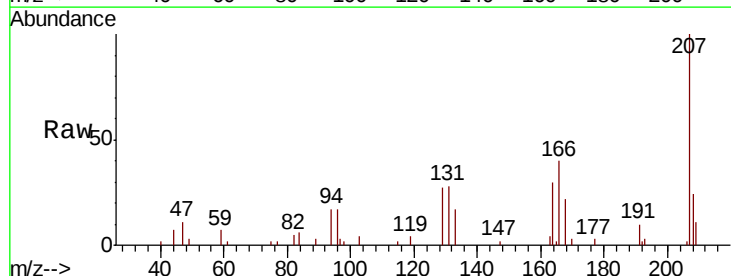
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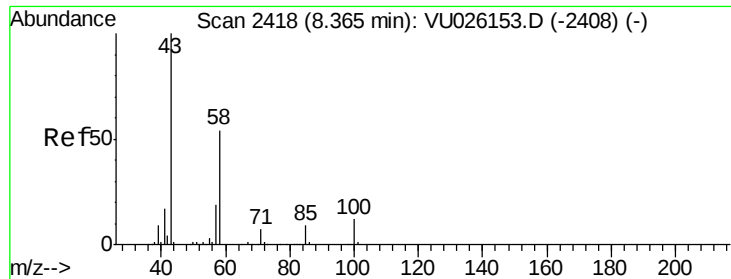
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#46
 Tetrachloroethene
 Concen: 1.99 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Lower	Upper
164	100		
129	90.8	65.7	121.9
131	95.0	62.0	115.2
166	135.2	88.9	165.1





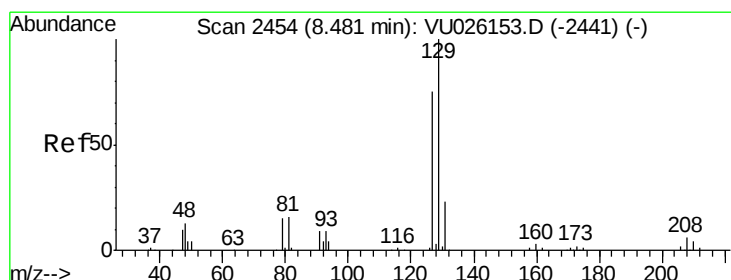
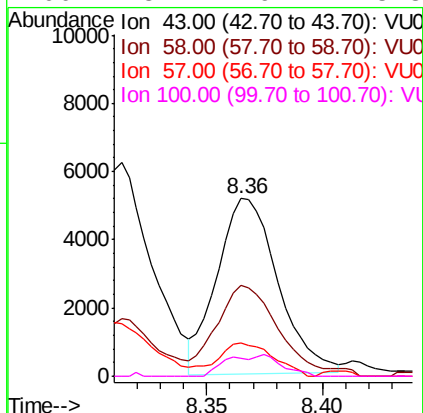
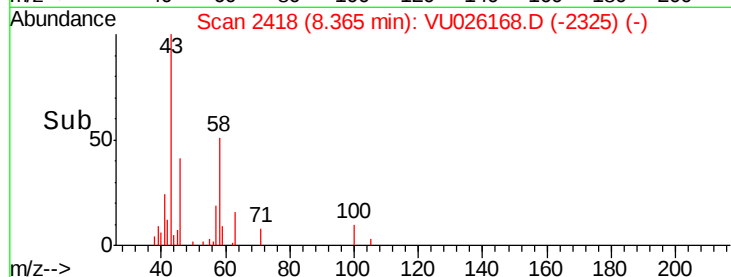
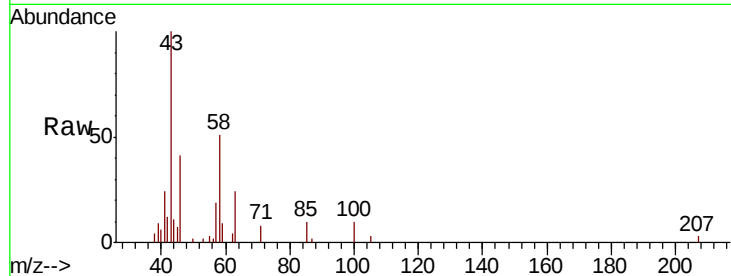
#48
2-Hexanone
Concen: 4.91 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
43	100		
58	45.7	42.9	64.3
57	16.2	15.1	22.7
100	5.2	9.2	13.8

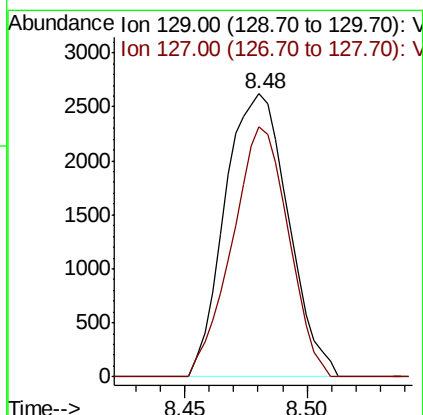
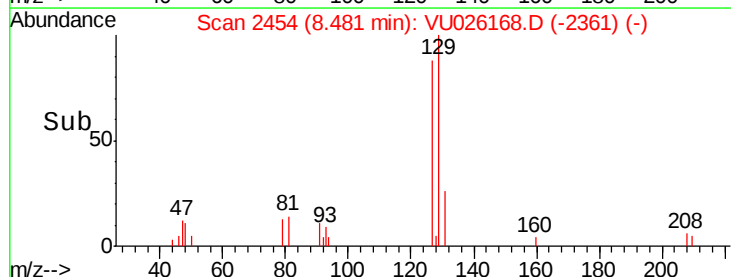
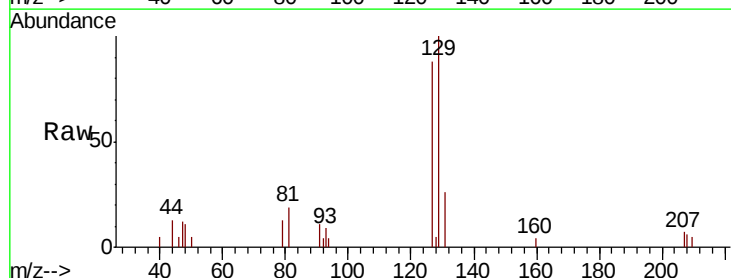
Manual Integrations
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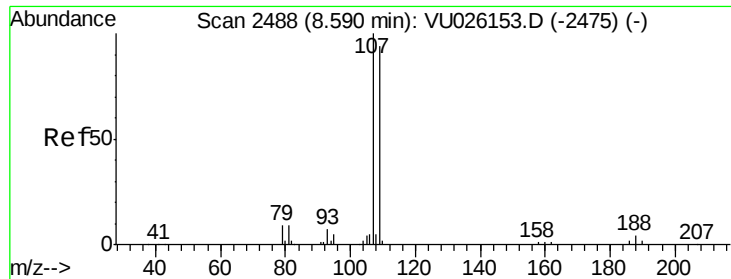
MMDadoda
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#49
Dibromochloromethane
Concen: 2.09 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Lower	Upper
129	100		
127	88.1	54.6	101.4





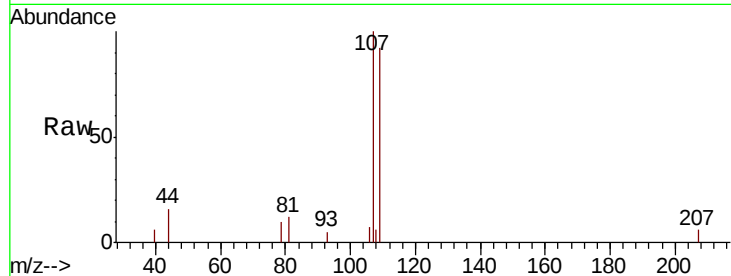
#50
 1,2-Dibromoethane
 Concen: 1.98 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Resp	Lower	Upper
107	100	3837		
109	92.0		66.1	122.7
188	0.0		3.2	4.8#

Manual Integrations
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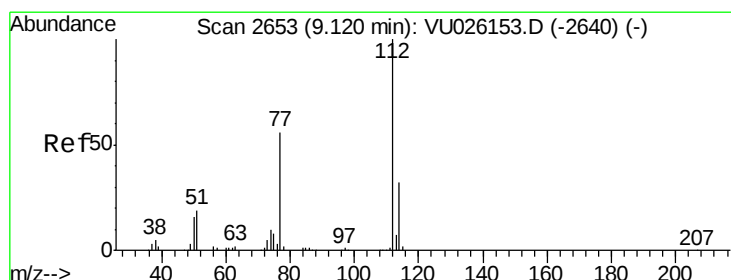
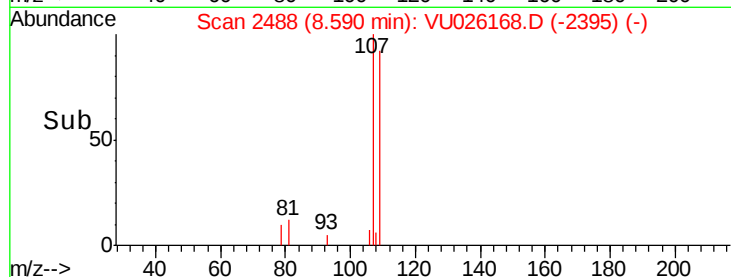
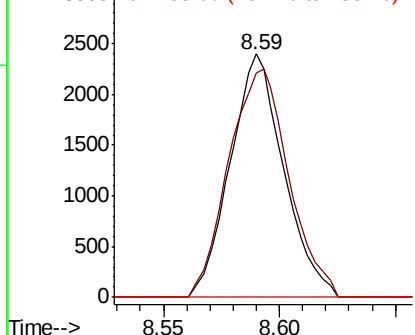


Abundance

Ion 107.00 (106.70 to 107.70): V

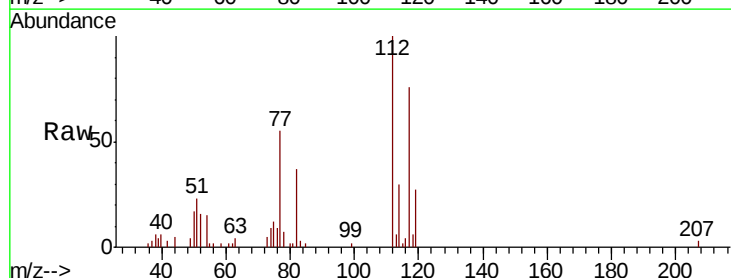
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 2.15 ug/L
 RT: 9.12 min Scan# 2654
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	11005		
114	29.8		22.5	41.9
77	54.6		45.0	67.4

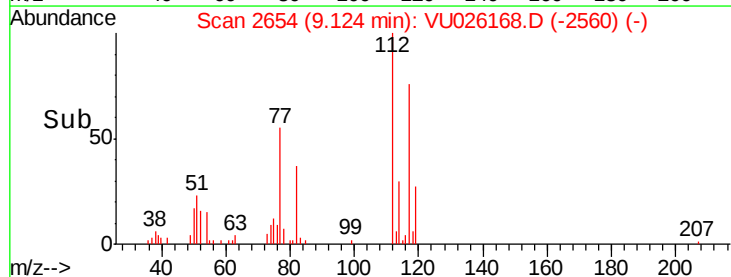
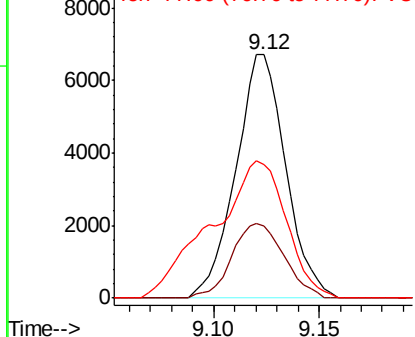


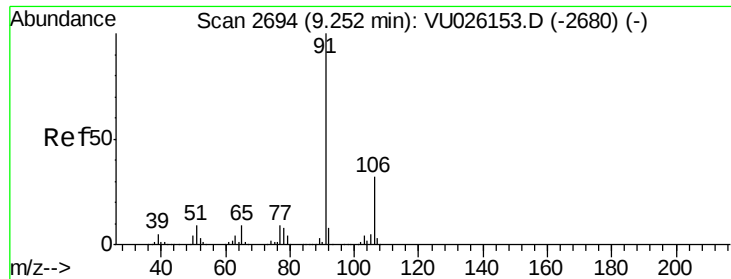
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 1.83 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 91 Resp: 14920

Ion Ratio Lower Upper

91 100

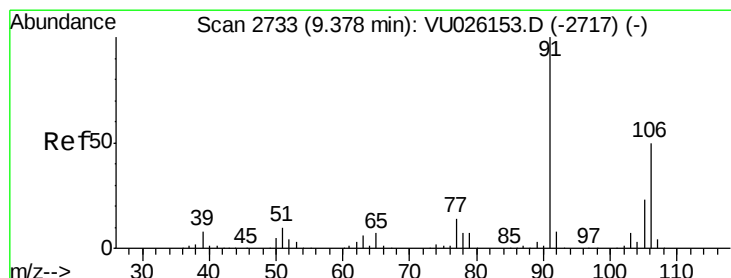
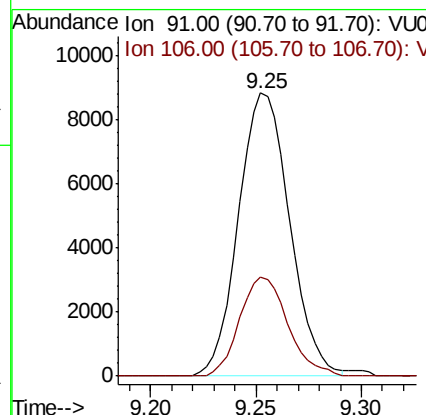
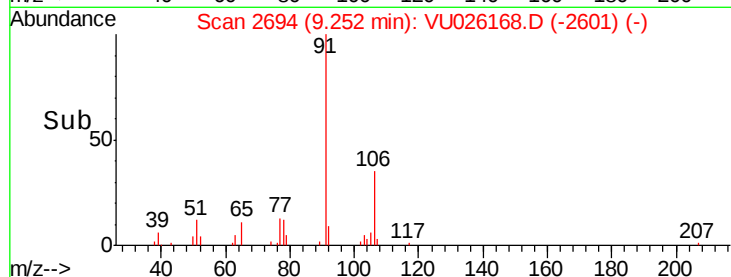
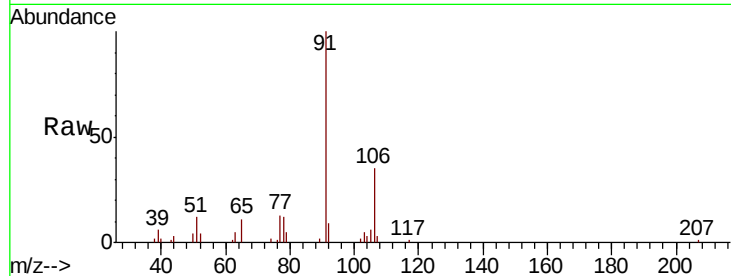
106 35.0 22.3 41.5

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#53

m,p-Xylene

Concen: 1.88 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026168.D

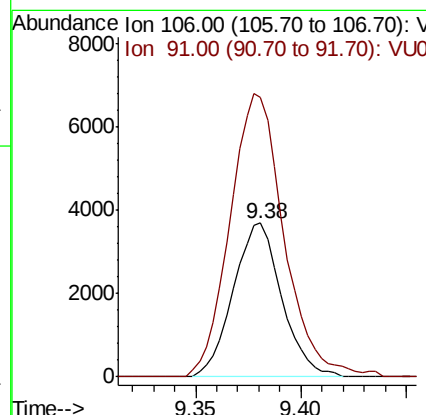
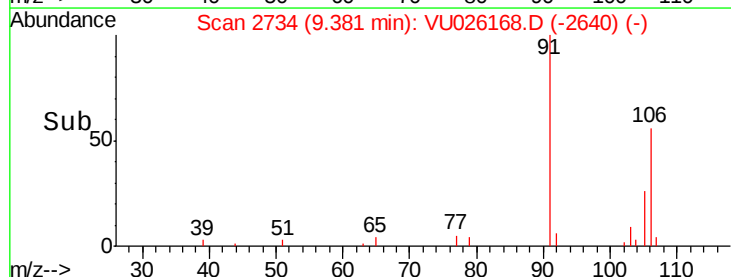
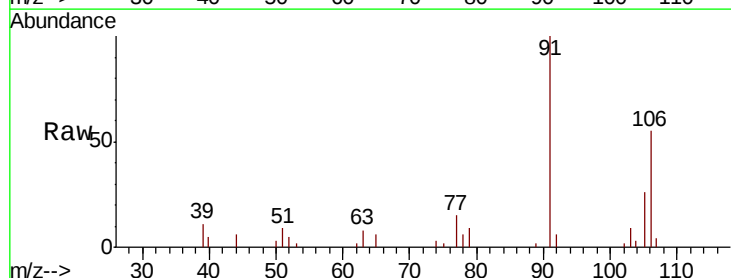
Acq: 16 Aug 2018 00:27

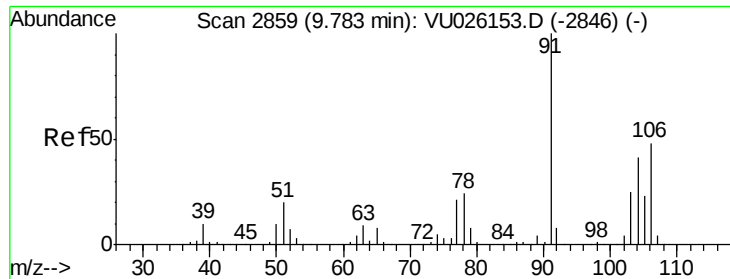
Tgt Ion: 106 Resp: 5902

Ion Ratio Lower Upper

106 100

91 182.3 139.2 258.4





#54

o-xylene

Concen: 1.81 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion:106 Resp: 5690

Ion Ratio Lower Upper

106 100

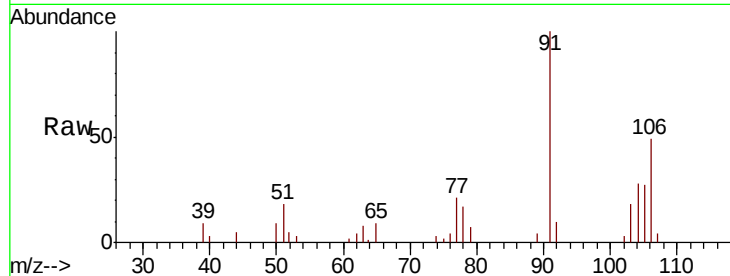
91 203.4 148.0 274.8

Manual Integrations

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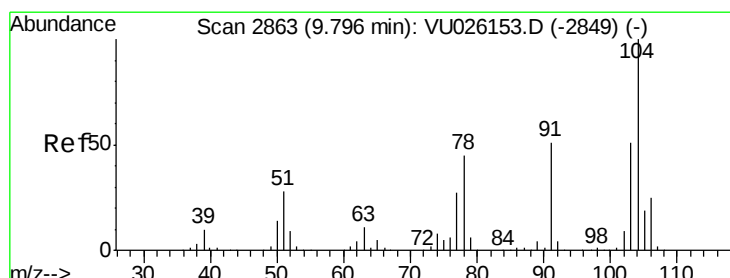
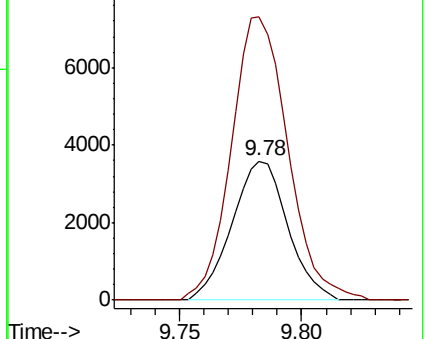
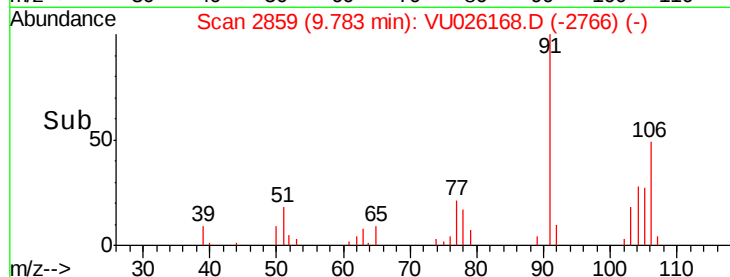
MMDadoda

8/16/2018 4:20:31 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.63 ug/L

RT: 9.80 min Scan# 2864

Delta R.T. 0.00 min

Lab File: VU026168.D

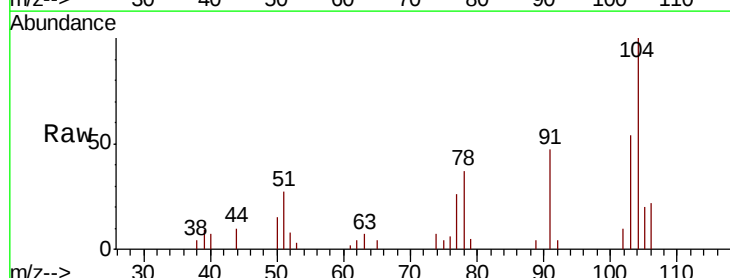
Acq: 16 Aug 2018 00:27

Tgt Ion:104 Resp: 8514

Ion Ratio Lower Upper

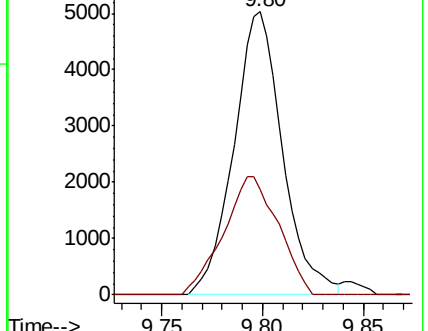
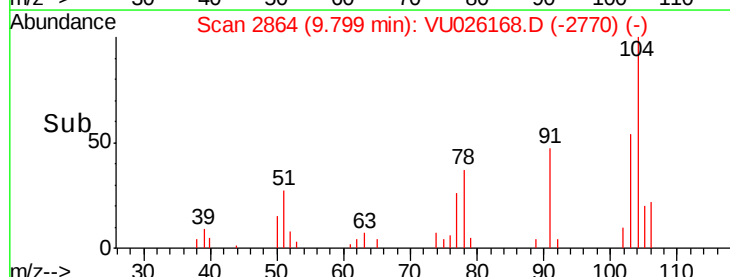
104 100

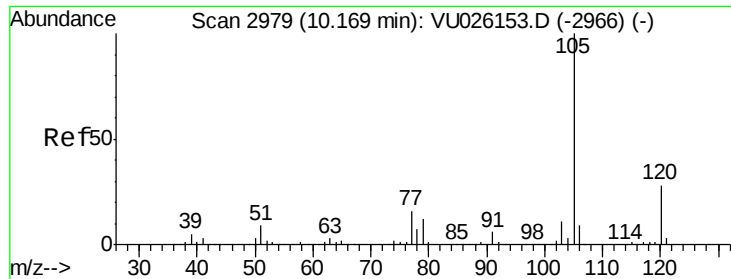
78 37.3 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





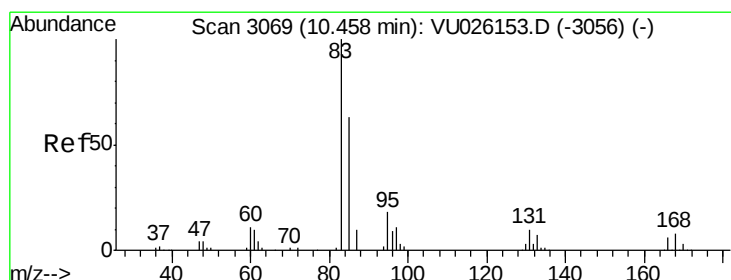
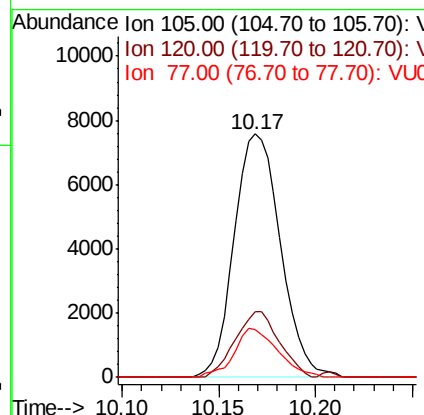
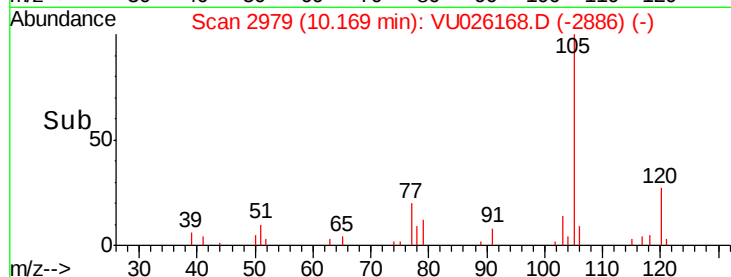
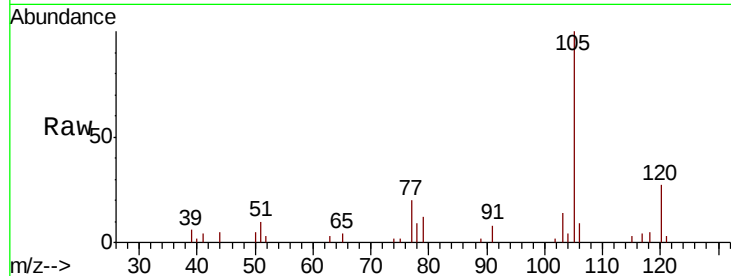
#56
Isopropylbenzene
Concen: 1.57 ug/L
RT: 10.17 min Scan# 2979
Delta R.T. -0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.5	21.5	32.3
77	19.0	12.3	18.5

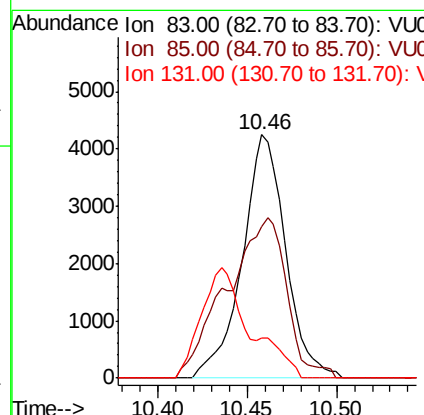
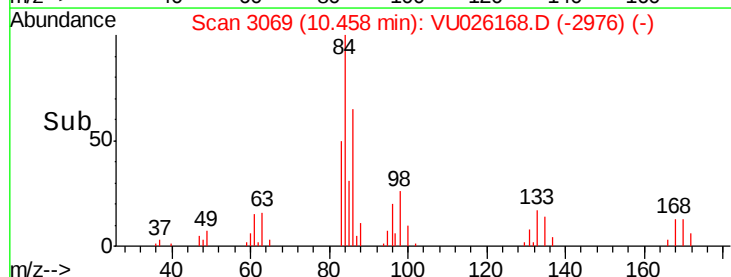
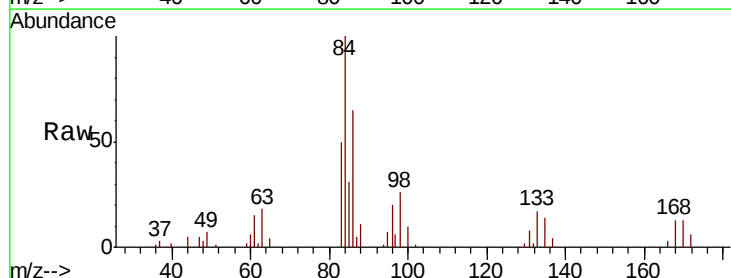
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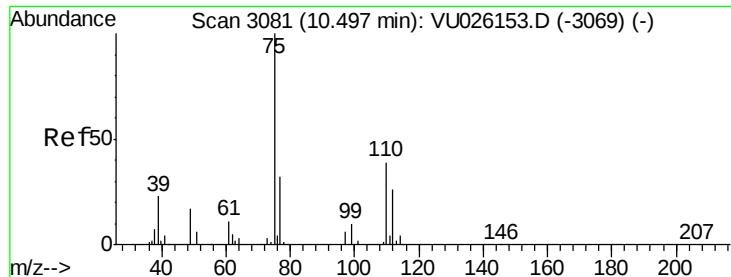
MMDadoda
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#58
1,1,2,2-Tetrachloroethane
Concen: 2.31 ug/L
RT: 10.46 min Scan# 3069
Delta R.T. 0.00 min
Lab File: VU026168.D
Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.1	45.0	83.6
131	16.6	8.4	12.6





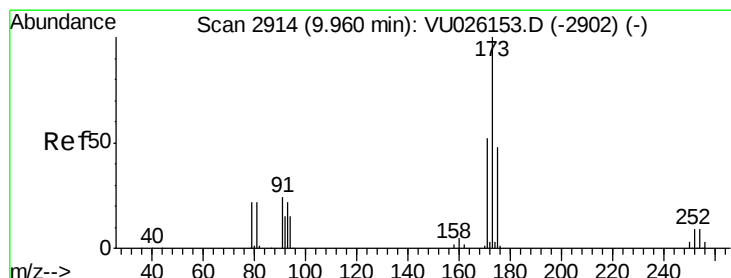
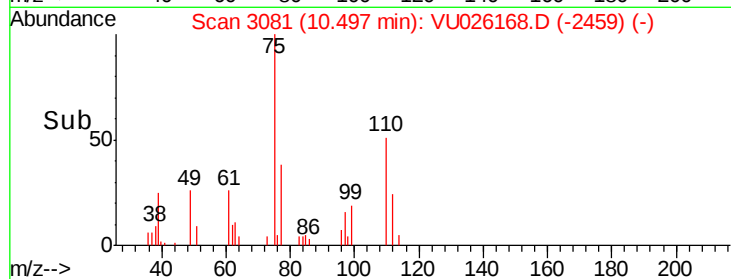
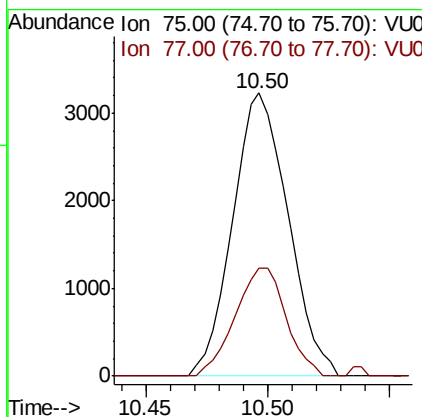
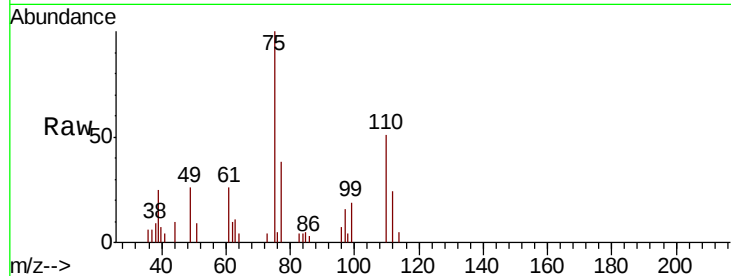
#59
 1,2,3-Trichloropropane
 Concen: 2.10 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion: 75 Resp: 5091
 Ion Ratio Lower Upper
 75 100
 77 35.1 26.1 39.1

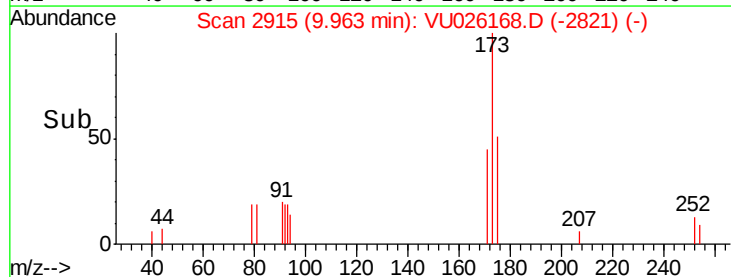
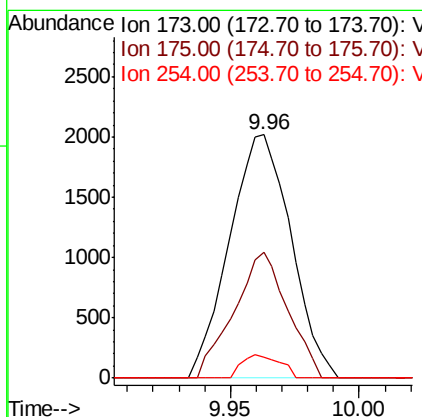
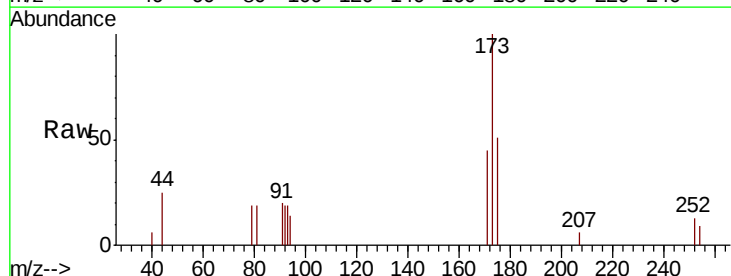
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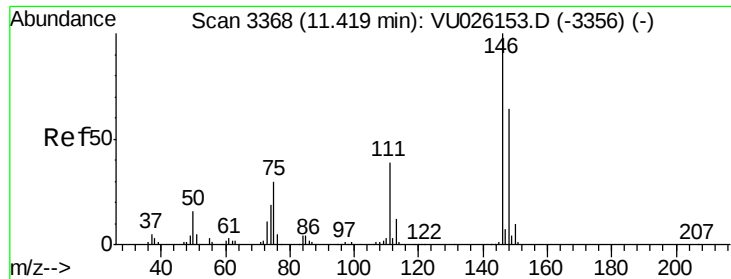
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#61
 Bromoform
 Concen: 2.38 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Tgt Ion: 173 Resp: 3361
 Ion Ratio Lower Upper
 173 100
 175 45.0 38.8 58.2
 254 6.0 7.3 10.9#





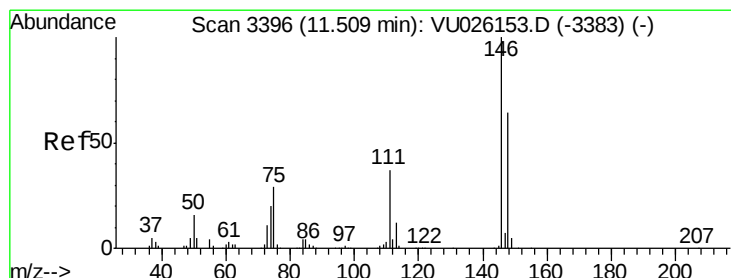
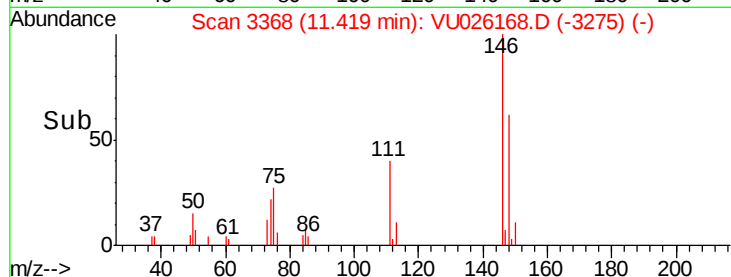
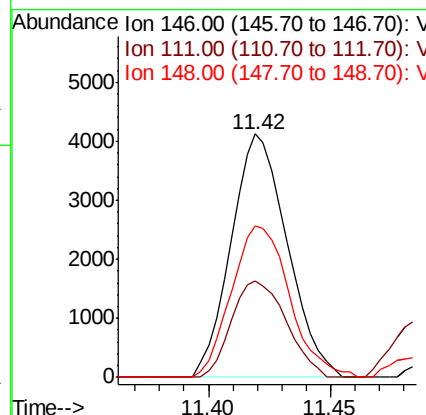
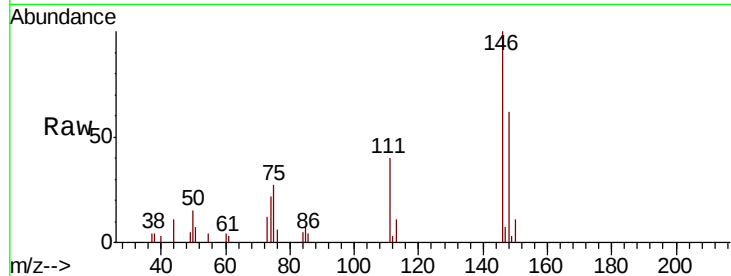
#62
 1,3-Dichlorobenzene
 Concen: 2.03 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	26.7	49.7
148	62.2	44.1	81.9

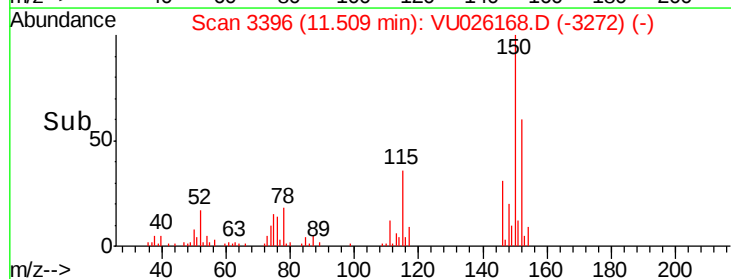
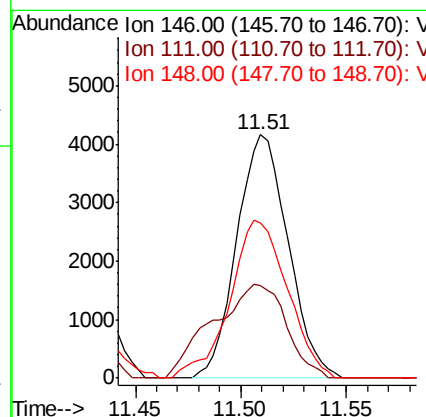
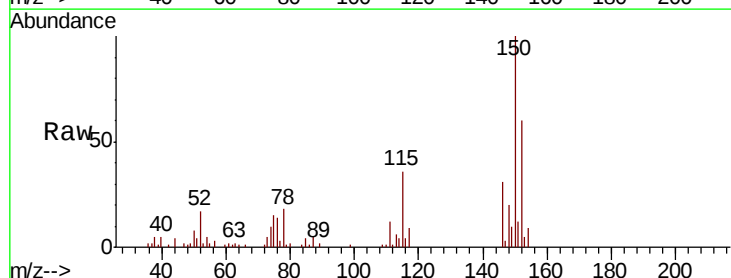
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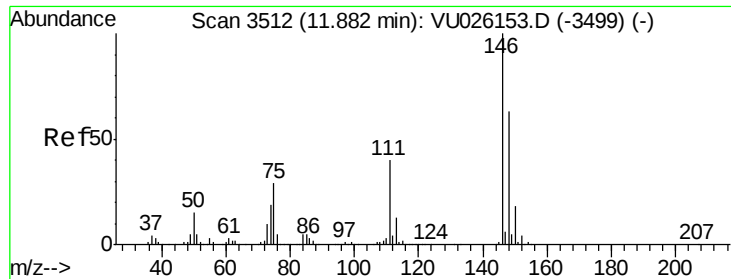
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#63
 1,4-Dichlorobenzene
 Concen: 2.11 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	27.5	51.1
148	63.8	44.8	83.2





#65

1,2-Dichlorobenzene

Concen: 2.36 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

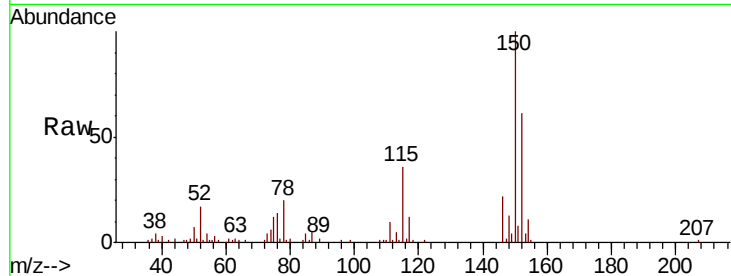
ClientSampled :

MDL06

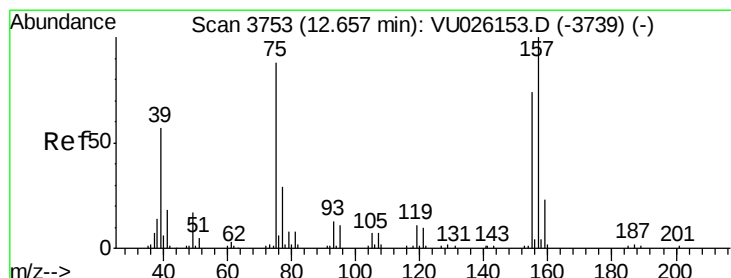
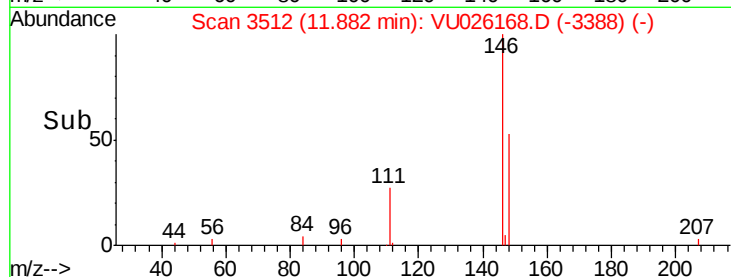
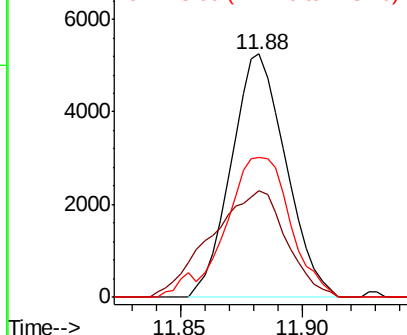
Tot Ion:	146	Resp:	8180
Ion Ratio	Lower	Upper	
146	100		
111	43.9	32.7	49.1
148	57.7	51.4	77.2

Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 2.35 ug/L

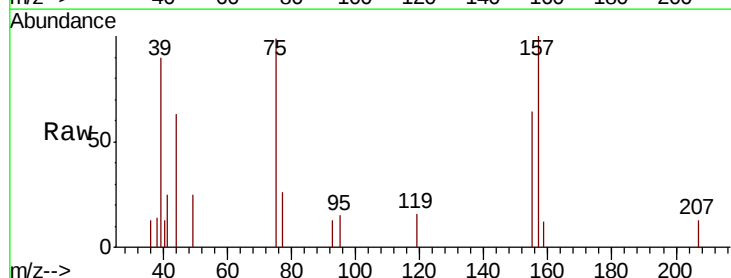
RT: 12.66 min Scan# 3755

Delta R.T. 0.01 min

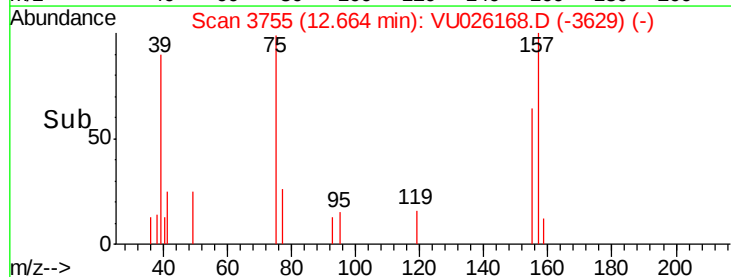
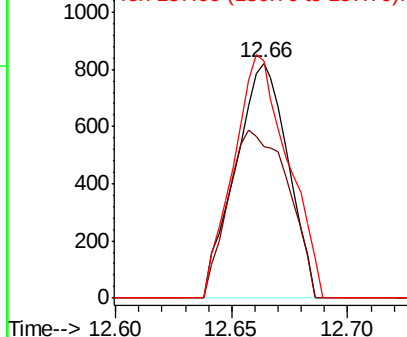
Lab File: VU026168.D

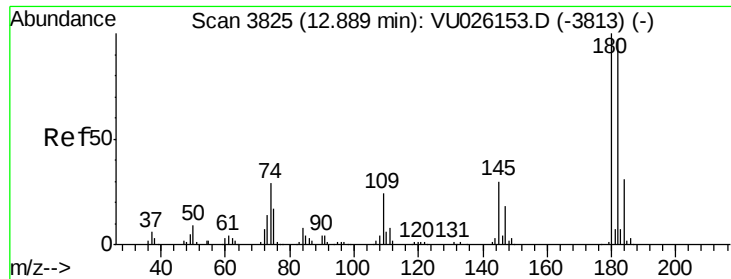
Acq: 16 Aug 2018 00:27

Tgt Ion:	75	Resp:	1290
Ion Ratio	Lower	Upper	
75	100		
155	64.4	68.2	102.2#
157	101.1	90.5	135.7



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





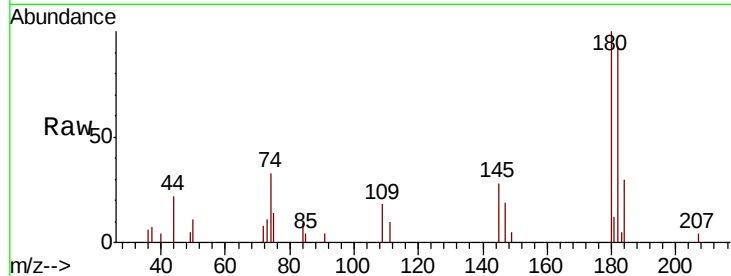
#67
 1,3,5-Trichlorobenzene
 Concen: 1.74 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.6	113.4
184	27.5	24.3	36.5
145	25.3	23.3	34.9

Manual Integrations
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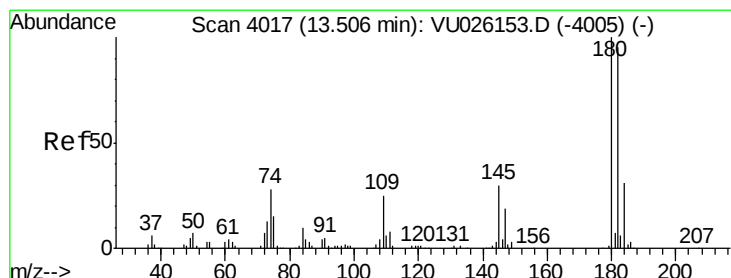
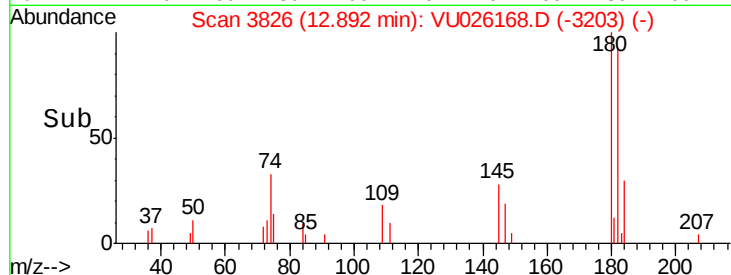
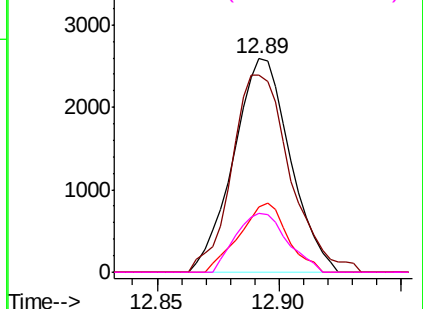
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

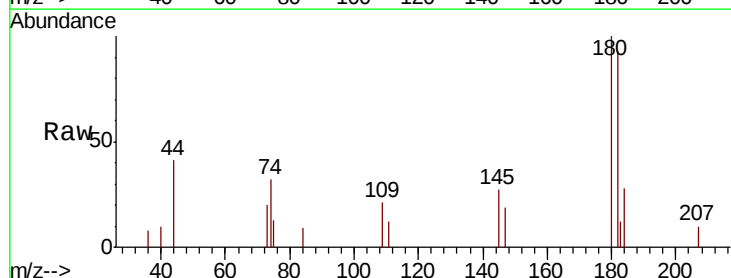
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.47 ug/L
 RT: 13.51 min Scan# 4019
 Delta R.T. 0.01 min
 Lab File: VU026168.D
 Acq: 16 Aug 2018 00:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.7	76.8	115.2
145	23.3	23.8	35.6#

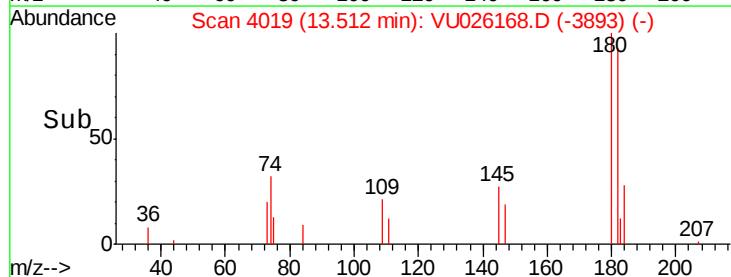
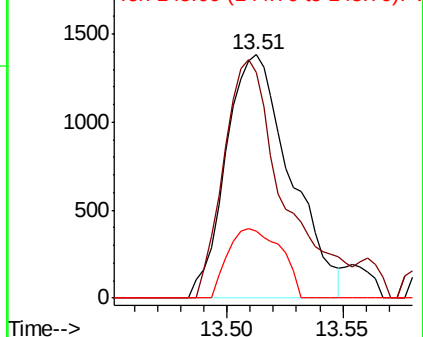


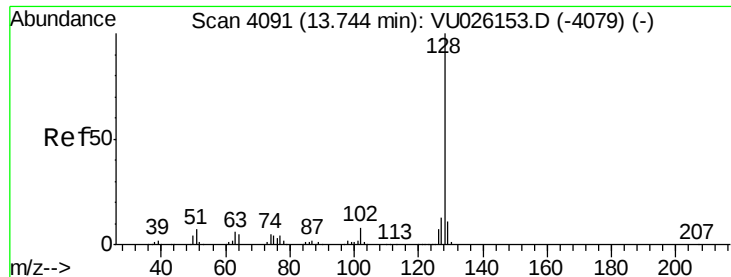
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.28 ug/L

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Instrument :

MSVOA_U

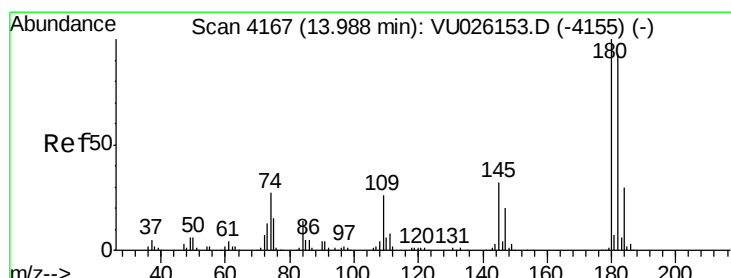
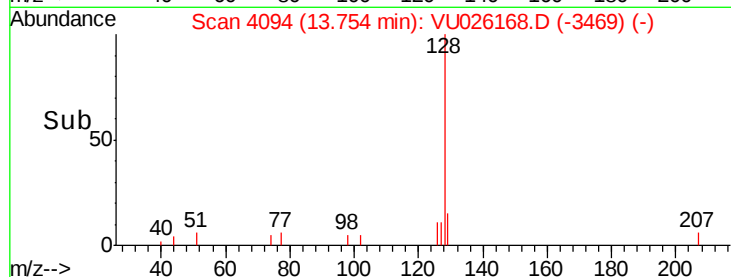
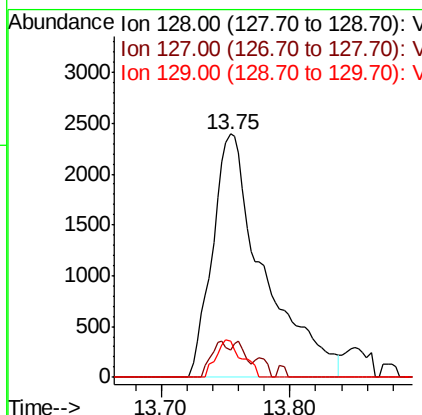
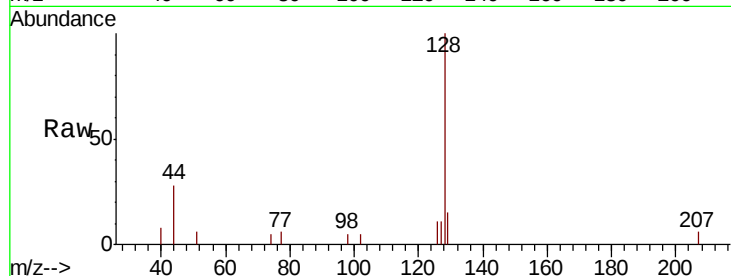
ClientSampled :

MDL06

Tot Ion:	128	Resp:	6606
Ion	Ratio	Lower	Upper
128	100		
127	5.3	10.3	15.5#
129	6.4	8.6	13.0#

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#70

1,2,3-Trichlorobenzene

Concen: 1.49 ug/L

RT: 14.00 min Scan# 4170

Delta R.T. 0.01 min

Lab File: VU026168.D

Acq: 16 Aug 2018 00:27

Tgt Ion:	180	Resp:	2901
Ion	Ratio	Lower	Upper
180	100		
182	93.4	77.1	115.7
145	28.7	25.1	37.7

