

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026159.D
 Acq On : 15 Aug 2018 20:23
 Operator : MD/SY
 Sample : MDL04
 Misc : 5.00uL/5mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:21 PM

Quant Time: Aug 16 04:53:54 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	286966	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	269578	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	114119	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	70311	41.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.46%
7) Chloroethane-d5	1.68	69	60643	43.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.56%
11) 1,1-Dichloroethene-d2	2.27	63	111164	33.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.20%
21) 2-Butanone-d5	4.18	46	131854	101.98	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.98%
24) Chloroform-d	4.65	84	170393	45.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.30%
26) 1,2-Dichloroethane-d4	5.31	65	116190	47.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.08%
32) Benzene-d6	5.35	84	329947	47.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.94%
36) 1,2-Dichloropropane-d6	6.33	67	108799	47.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.22%
41) Toluene-d8	7.57	98	298495	44.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.74%
43) trans-1,3-Dichloropropene-	7.85	79	49255	45.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.06%
47) 2-Hexanone-d5	8.31	63	94604	101.06	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.06%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	151221	47.02	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.04%
64) 1,2-Dichlorobenzene-d4	11.86	152	116169	48.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.84%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4620	2.03	ug/L	92
3) Chloromethane	1.33	50	4795	2.32	ug/L	83
5) Vinyl chloride	1.40	62	4452	2.16	ug/L #	58
6) Bromomethane	1.62	94	2419	2.27	ug/L	94
8) Chloroethane	1.70	64	3021	2.44	ug/L	96
9) Trichlorofluoromethane	1.89	101	6101	2.00	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	3761	2.28	ug/L #	87
12) 1,1-Dichloroethene	2.28	96	4093	2.70	ug/L #	1
13) Acetone	2.32	43	5113	4.32	ug/L	98
14) Carbon disulfide	2.48	76	10869	2.07	ug/L	100
15) Methyl Acetate	2.62	43	5334	2.60	ug/L	91
16) Methylene chloride	2.70	84	4536	2.23	ug/L	91
17) trans-1,2-Dichloroethene	2.99	96	3874	2.15	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	11853	2.08	ug/L #	68
19) 1,1-Dichloroethane	3.45	63	7400	2.14	ug/L	94
20) cis-1,2-Dichloroethene	4.23	96	4300	2.13	ug/L	90
22) 2-Butanone	4.27	43	6593	4.47	ug/L	90

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 ClientSampleId :
 MDL04

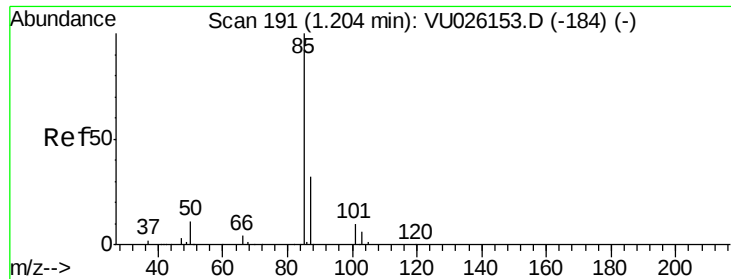
Manual Integrations
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 8/16/2018 4:20:21 PM

Quant Time: Aug 16 04:53:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	2266	2.08	ug/L	96
25) Chloroform	4.68	83	9647	2.65	ug/L	92
27) 1,2-Dichloroethane	5.41	62	6708	2.28	ug/L	98
29) Cyclohexane	5.00	56	5055	1.88	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	6893	2.14	ug/L	99
31) Carbon tetrachloride	5.14	117	6405	2.19	ug/L #	52
33) Benzene	5.39	78	16565	2.27	ug/L	100
34) Trichloroethene	6.19	95	3997	2.10	ug/L	86
35) Methylcyclohexane	6.42	83	4958	1.74	ug/L	90
37) 1,2-Dichloropropane	6.44	63	4561	2.24	ug/L	98
38) Bromodichloromethane	6.76	83	5903	2.19	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	5876	1.94	ug/L	90
40) 4-Methyl-2-pentanone	7.46	43	10790	4.27	ug/L	94
42) Toluene	7.64	91	16369	2.11	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	5774	1.98	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	4258	2.20	ug/L	92
46) Tetrachloroethene	8.23	164	3290	2.01	ug/L	90
48) 2-Hexanone	8.37	43	9663	4.88	ug/L #	94
49) Dibromochloromethane	8.48	129	4991	2.14	ug/L	89
50) 1,2-Dibromoethane	8.59	107	4567	2.28	ug/L #	100
51) Chlorobenzene	9.12	112	10826	2.04	ug/L	98
52) Ethylbenzene	9.25	91	16153	1.91	ug/L	97
53) m,p-Xylene	9.38	106	5633	1.73	ug/L	98
54) o-xylene	9.78	106	5734	1.77	ug/L	92
55) Styrene	9.80	104	8872	1.64	ug/L	99
56) Isopropylbenzene	10.17	105	13373	1.60	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	7611	2.36	ug/L #	90
59) 1,2,3-Trichloropropane	10.50	75	5013	2.00	ug/L	96
61) Bromoform	9.96	173	3359	2.25	ug/L #	92
62) 1,3-Dichlorobenzene	11.42	146	7000	2.05	ug/L	95
63) 1,4-Dichlorobenzene	11.51	146	7345	2.08	ug/L	93
65) 1,2-Dichlorobenzene	11.88	146	8767	2.40	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.66	75	1600	2.76	ug/L #	78
67) 1,3,5-Trichlorobenzene	12.89	180	4560	1.81	ug/L #	97
68) 1,2,4-trichlorobenzene	13.51	180	2345	1.23	ug/L	93
69) Naphthalene	13.76	128	8066m	1.48	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	2960	1.44	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 2.03 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 85 Resp: 4620

Ion Ratio Lower Upper

85 100

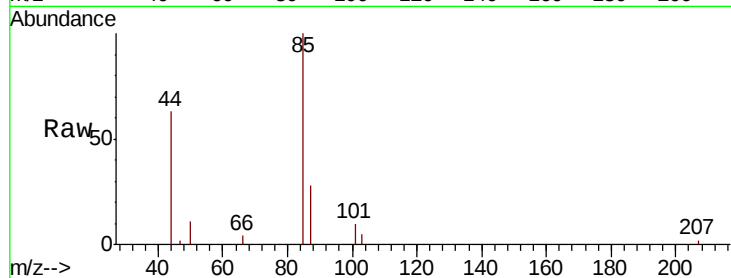
87 28.4 26.1 39.1

Manual Integrations

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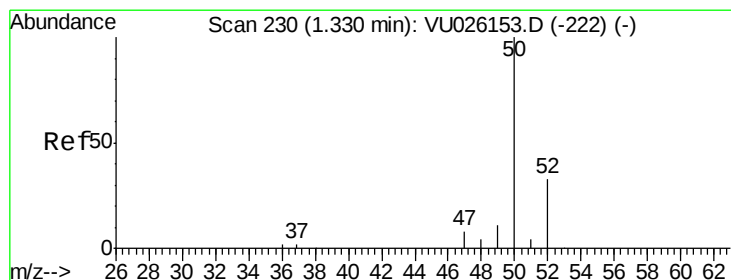
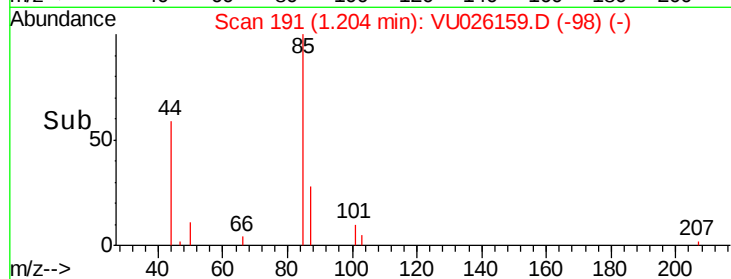
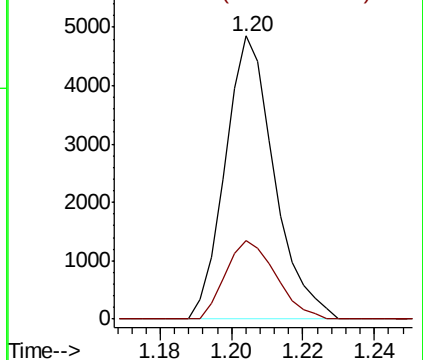
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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.32 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026159.D

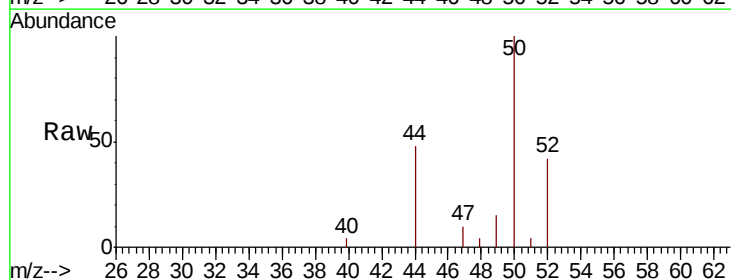
Acq: 15 Aug 2018 20:23

Tgt Ion: 50 Resp: 4795

Ion Ratio Lower Upper

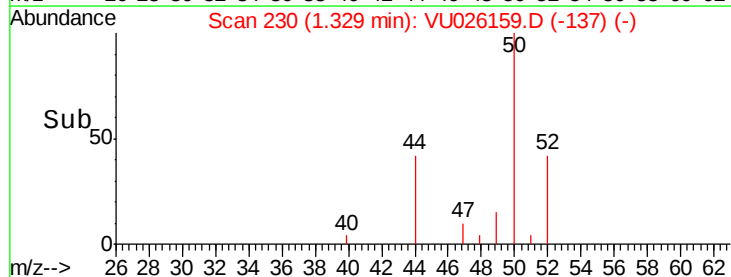
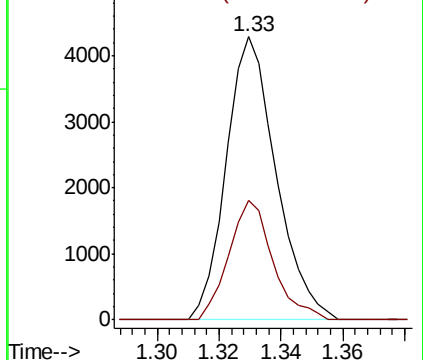
50 100

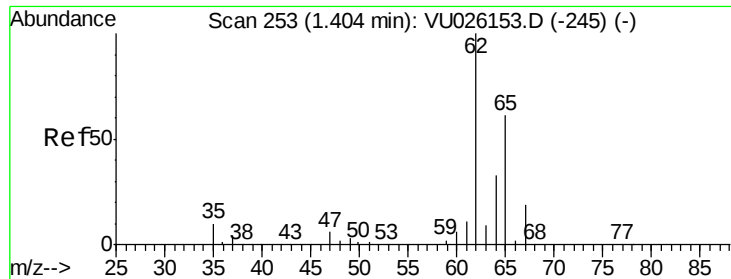
52 42.3 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.16 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 62 Resp: 4452

Ion Ratio Lower Upper

62 100

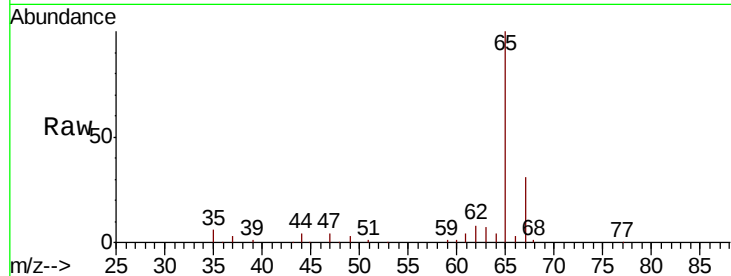
64 56.6 23.0 42.8#

Manual Integrations

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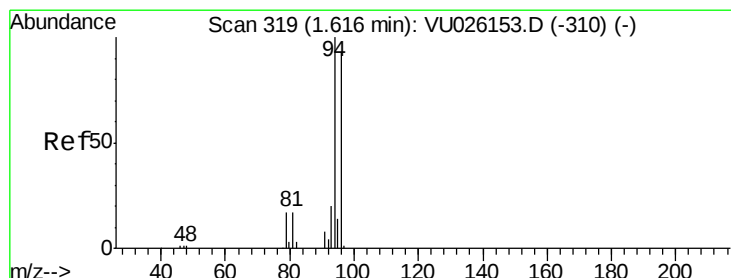
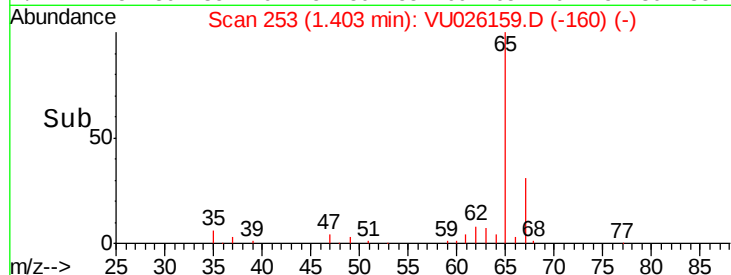
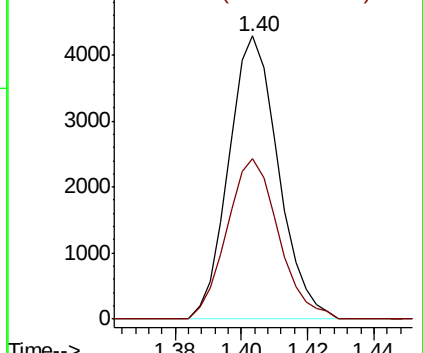
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.27 ug/L

RT: 1.62 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU026159.D

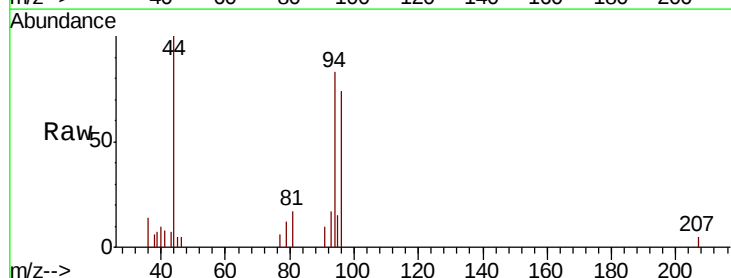
Acq: 15 Aug 2018 20:23

Tgt Ion: 94 Resp: 2419

Ion Ratio Lower Upper

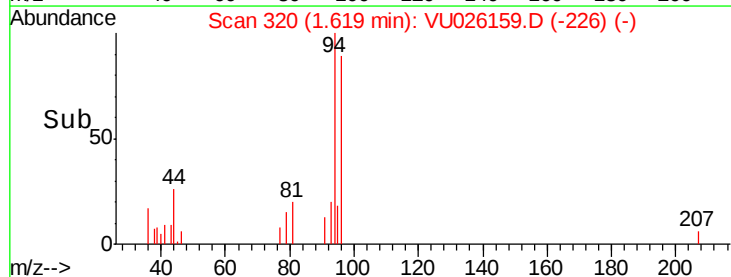
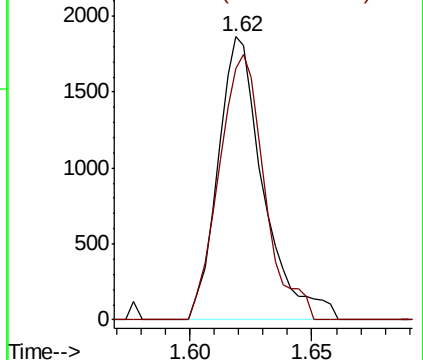
94 100

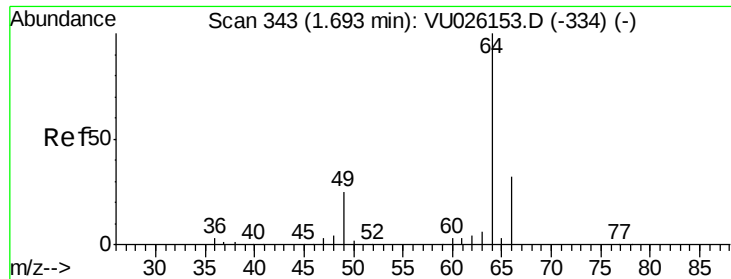
96 88.8 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.44 ug/L

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 64 Resp: 3021

Ion Ratio Lower Upper

64 100

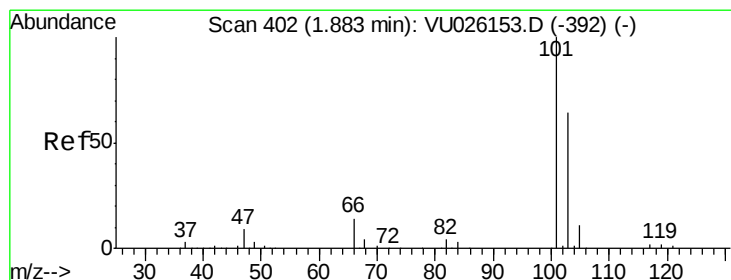
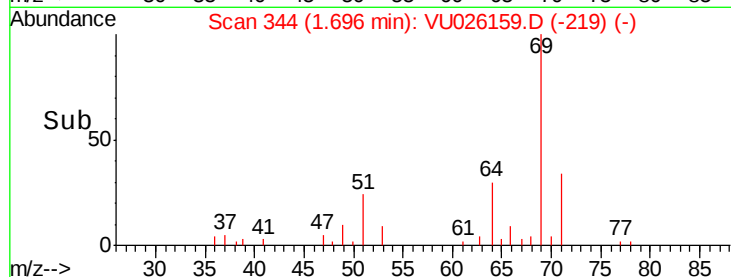
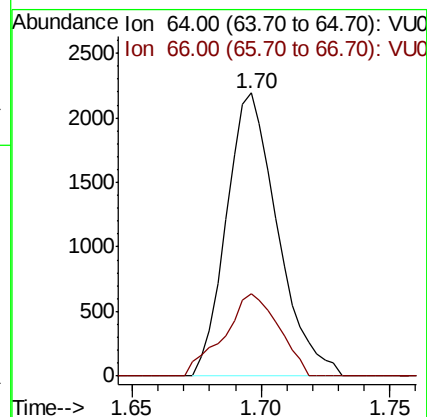
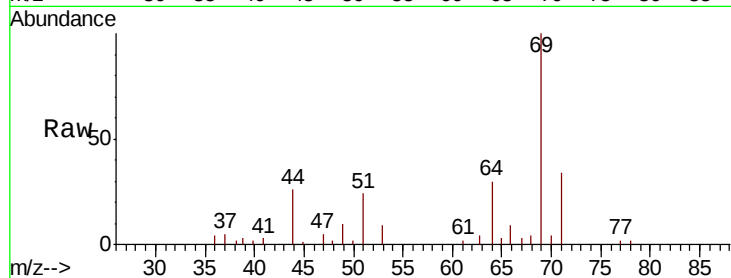
66 29.3 22.2 41.2

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.00 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU026159.D

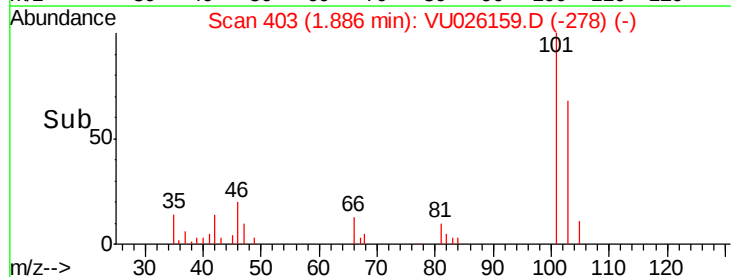
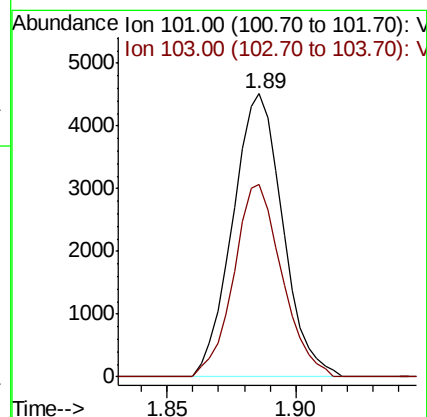
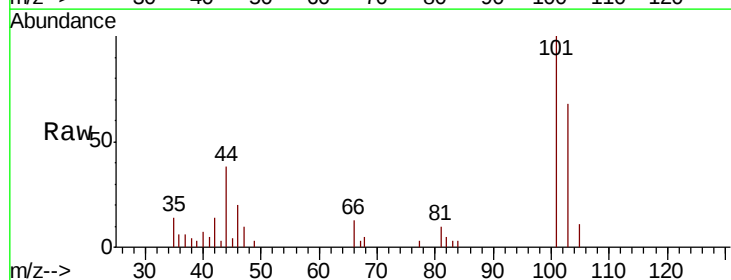
Acq: 15 Aug 2018 20:23

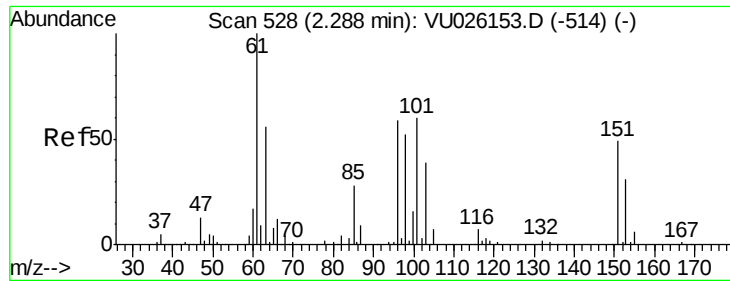
Tgt Ion: 101 Resp: 6101

Ion Ratio Lower Upper

101 100

103 65.4 51.4 77.2





#10

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

Concen: 2.28 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

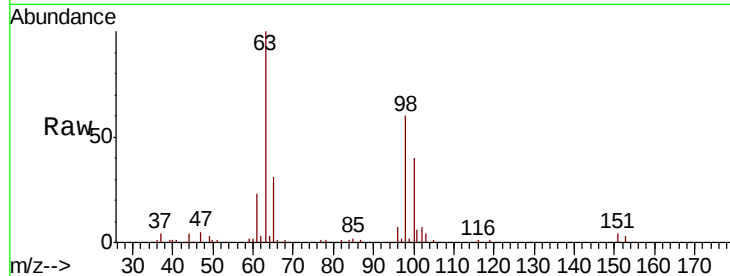
ClientSampleId :

MDL04

Tot Ion	Ratio	Lower	Upper
101	100		
85	34.9	36.6	55.0#
151	70.1	63.8	95.8

Manual Integrations
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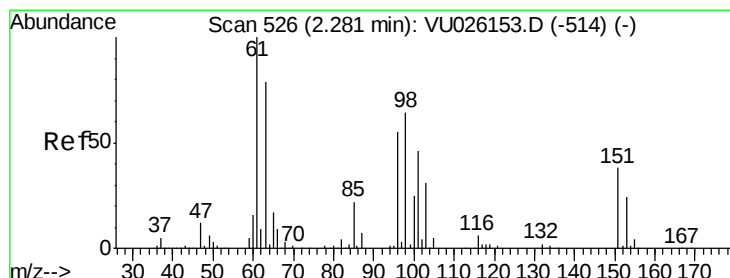
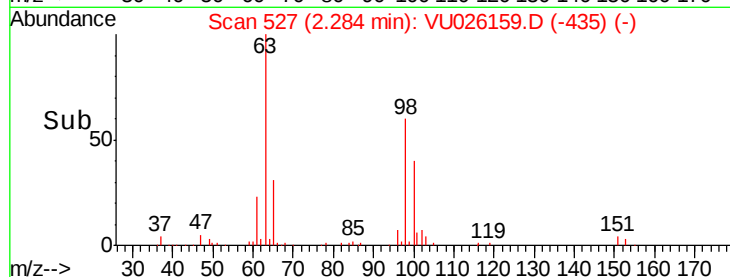
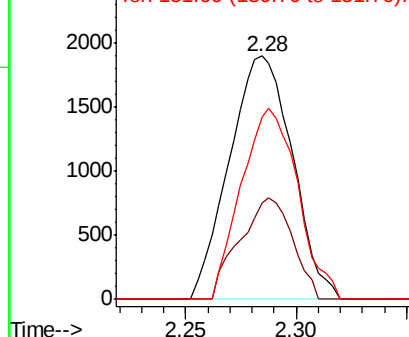


Abundance

Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.70 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

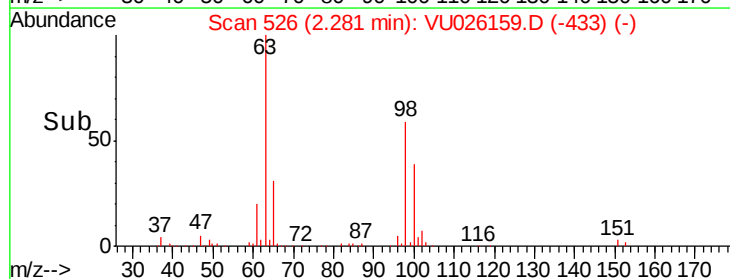
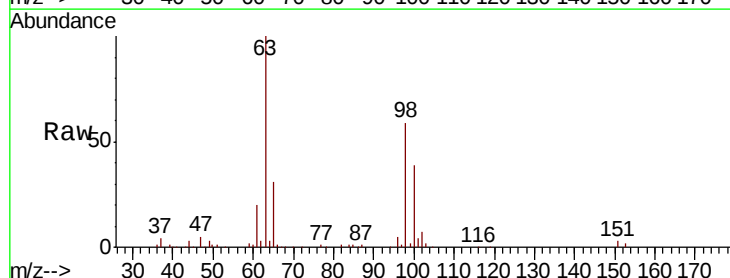
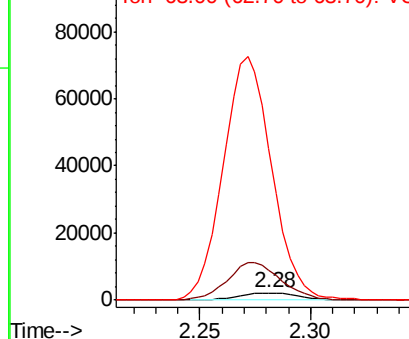
Tgt Ion	Ratio	Lower	Upper
96	100		
61	408.7	126.8	235.4#
63	2043.2	97.0	180.2#

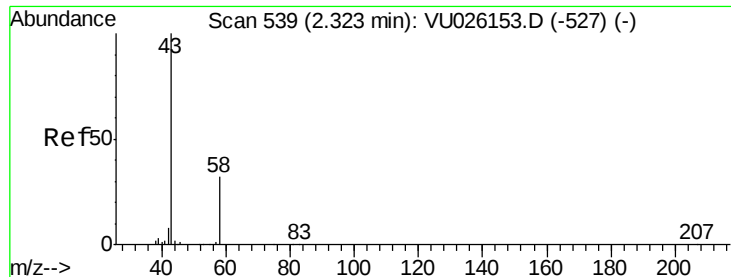
Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





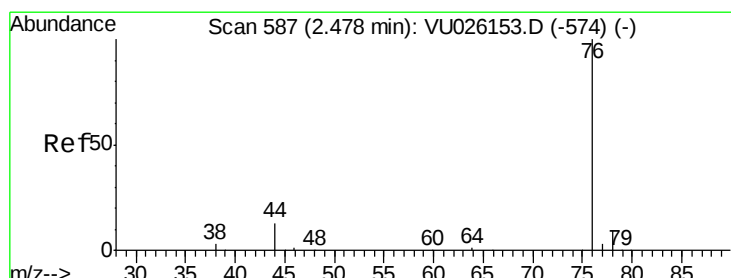
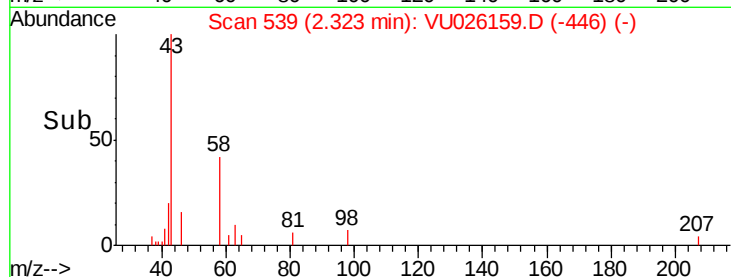
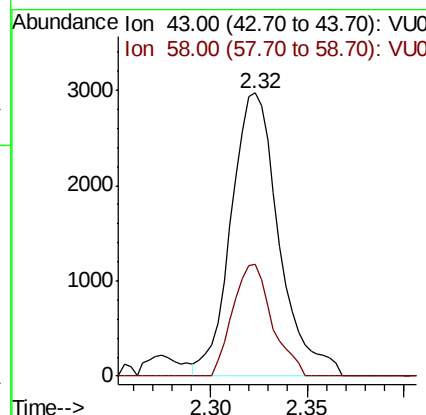
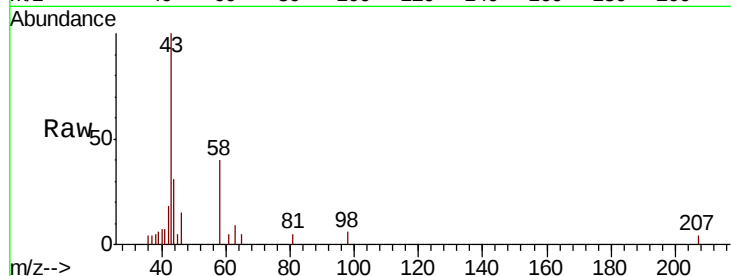
#13
Acetone
Concen: 4.32 ug/L
RT: 2.32 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	43	Resp	5113
Ion Ratio	100	Lower	Upper
58	32.3	0.0	62.6

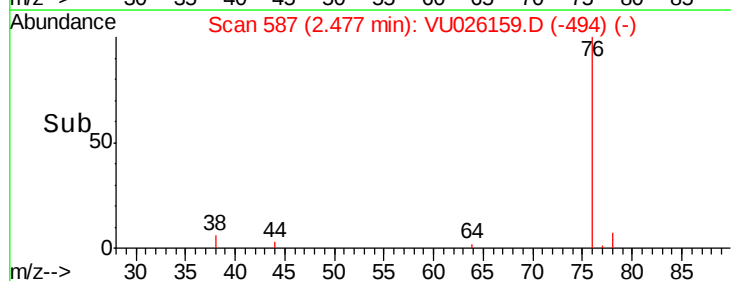
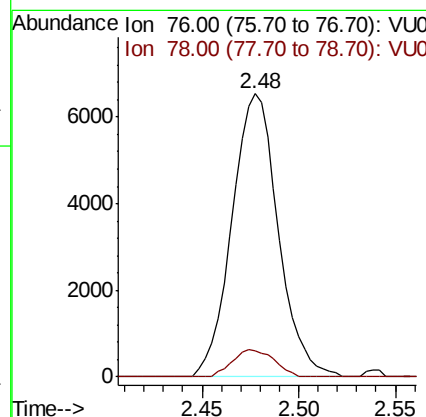
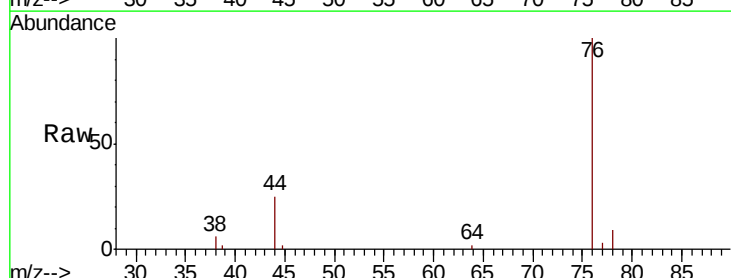
Manual Integrations
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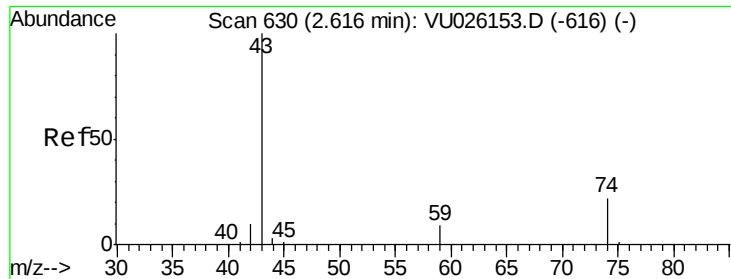
MMDadoda
8/16/2018 4:20:21 PM



#14
Carbon disulfide
Concen: 2.07 ug/L
RT: 2.48 min Scan# 587
Delta R.T. -0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Tgt Ion	76	Resp	10869
Ion Ratio	100	Lower	Upper
78	9.1	7.4	11.2





#15

Methvl Acetate

Concen: 2.60 ug/L

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 5334

Ion Ratio Lower Upper

43 100

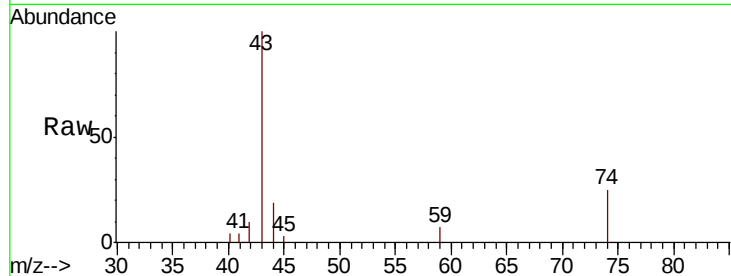
74 19.0 18.6 28.0

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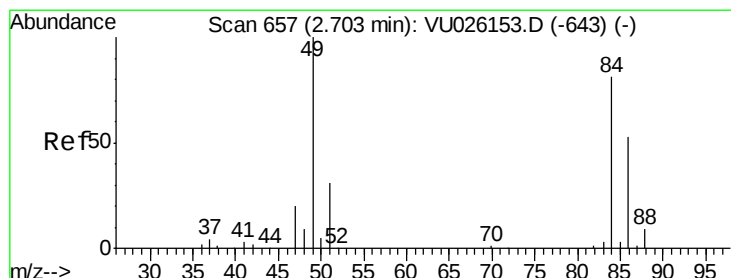
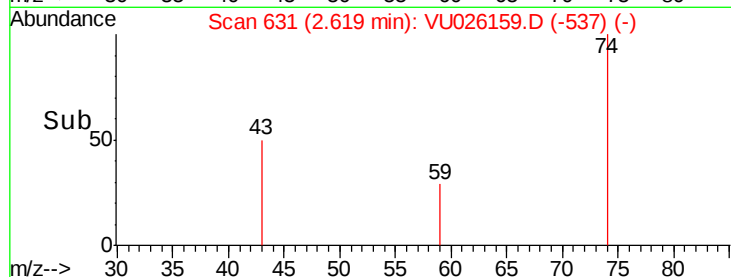
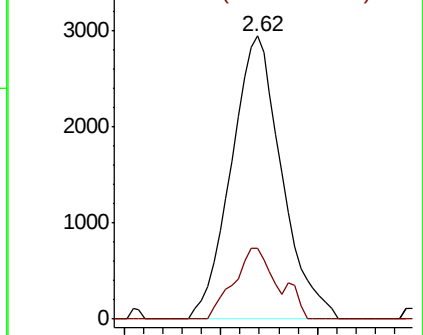
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.23 ug/L

RT: 2.70 min Scan# 656

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

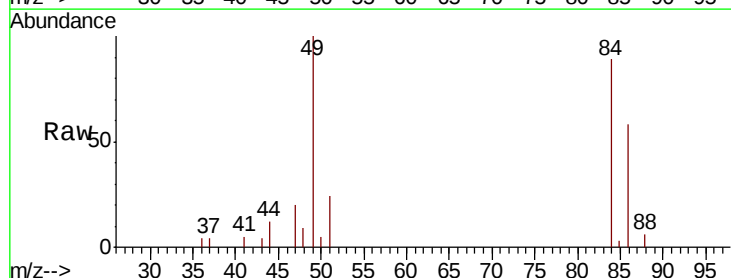
Tgt Ion: 84 Resp: 4536

Ion Ratio Lower Upper

84 100

86 65.8 44.0 81.6

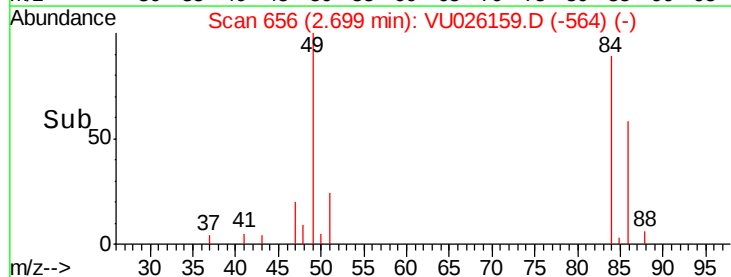
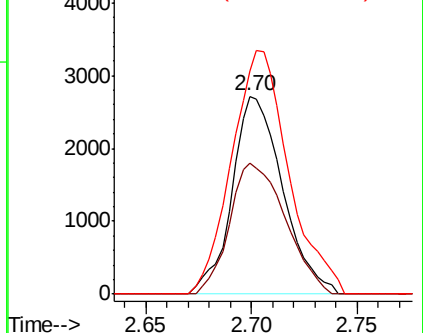
49 112.6 87.7 162.9

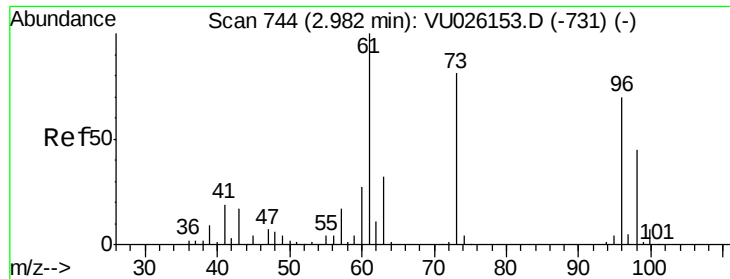


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.15 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

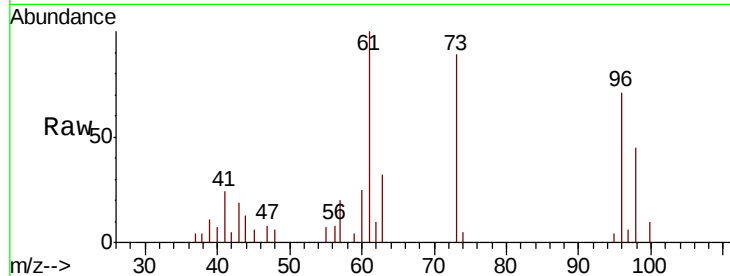
ClientSampleId :

MDL04

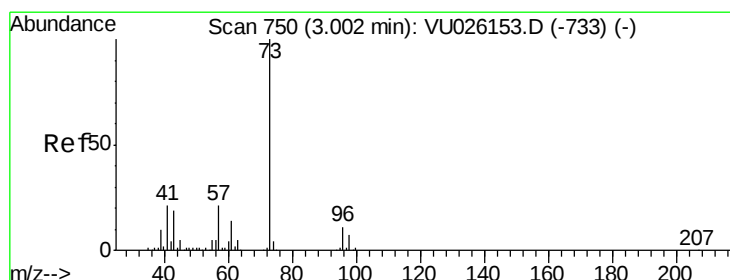
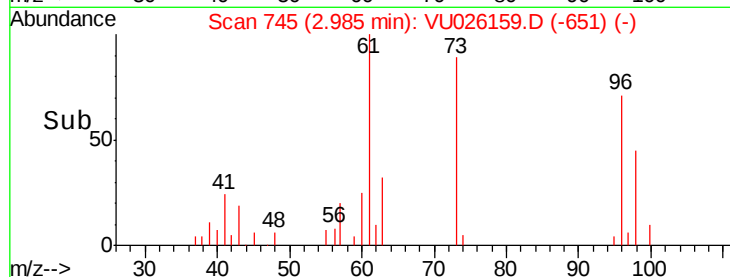
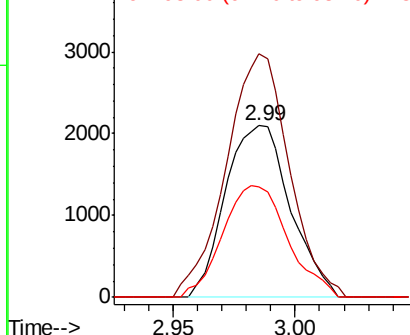
Tot Ion:	96	Resp:	3874
Ion	Ratio	Lower	Upper
96	100		
61	141.7	96.7	179.5
98	64.5	43.6	81.0

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Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 2.08 ug/L

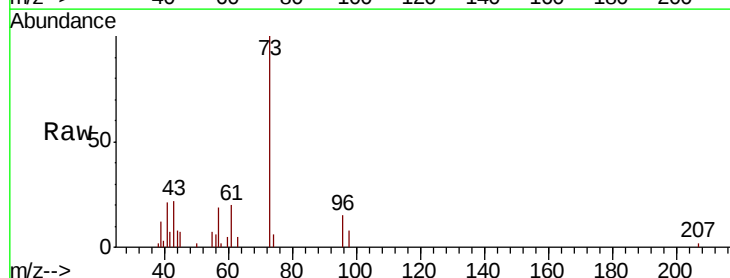
RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

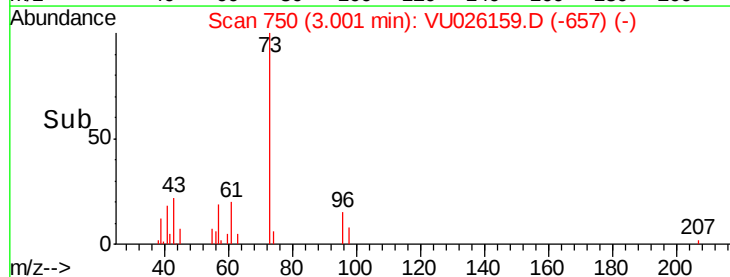
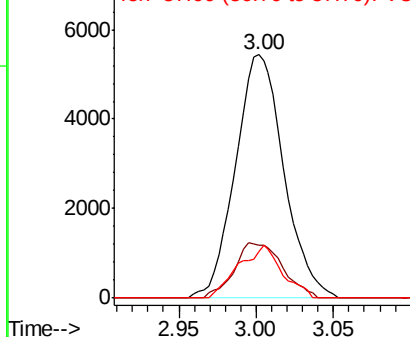
Lab File: VU026159.D

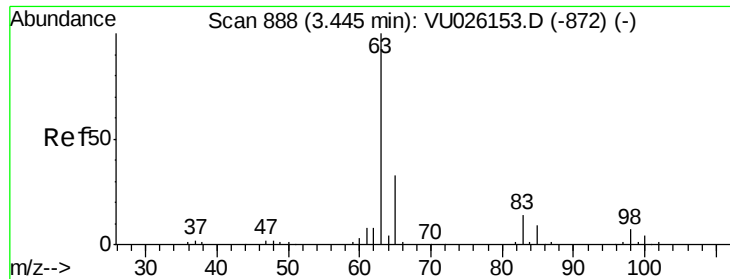
Acq: 15 Aug 2018 20:23

Tgt Ion:	73	Resp:	11853
Ion	Ratio	Lower	Upper
73	100		
43	0.0	16.2	24.4#
57	12.6	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: 2.14 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

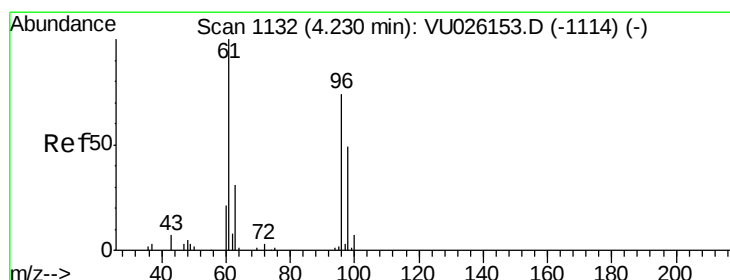
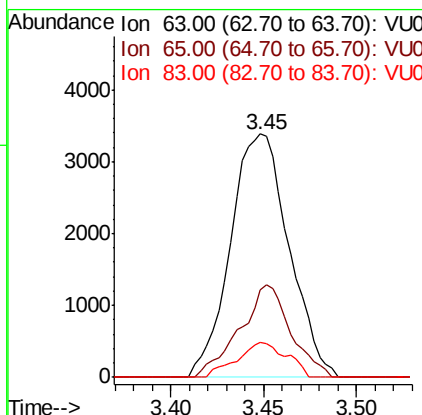
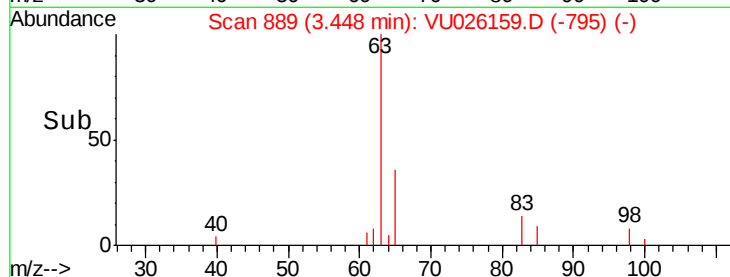
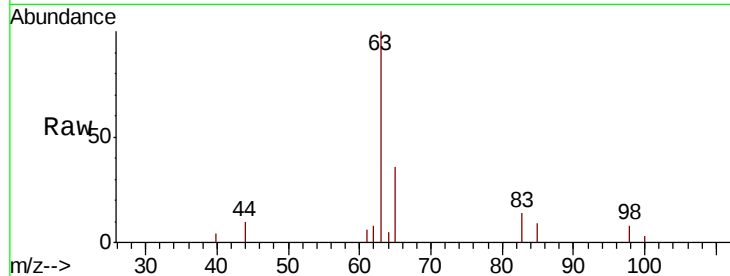
ClientSampleId :

MDL04

Tot Ion:	63	Resp:	7400
Ion	Ratio	Lower	Upper
63	100		
65	35.7	22.1	41.1
83	14.1	9.4	17.4

Manual Integrations
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#20

cis-1,2-Dichloroethene

Concen: 2.13 ug/L

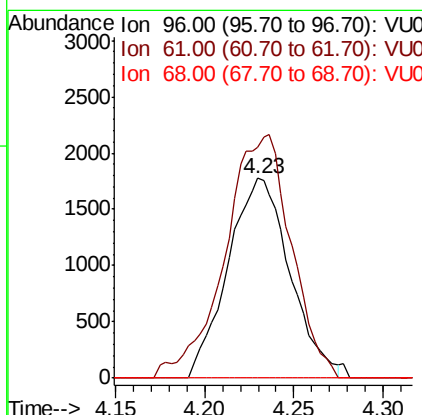
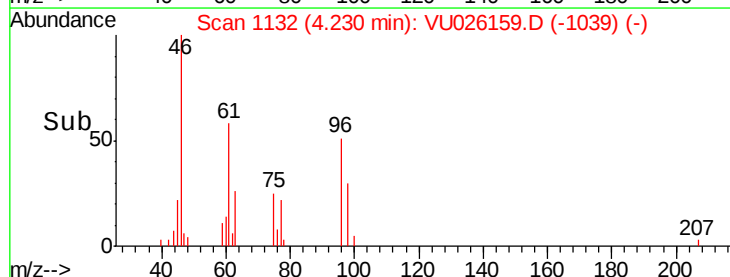
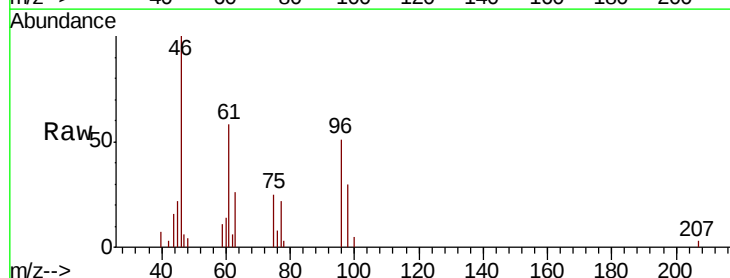
RT: 4.23 min Scan# 1132

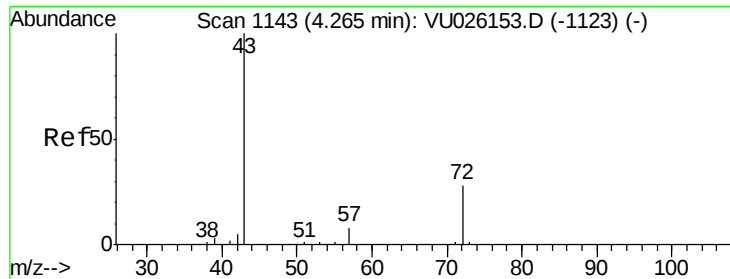
Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Tgt Ion:	96	Resp:	4300
Ion	Ratio	Lower	Upper
96	100		
61	115.6	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.47 ug/L

RT: 4.27 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VU026159.D

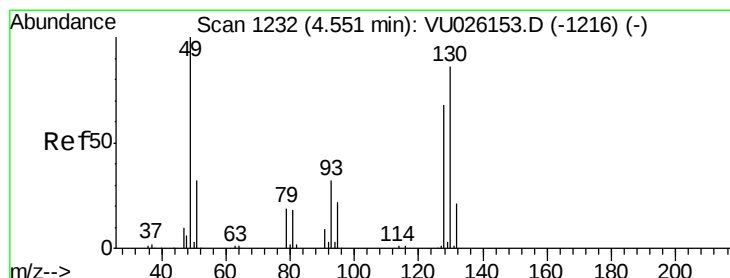
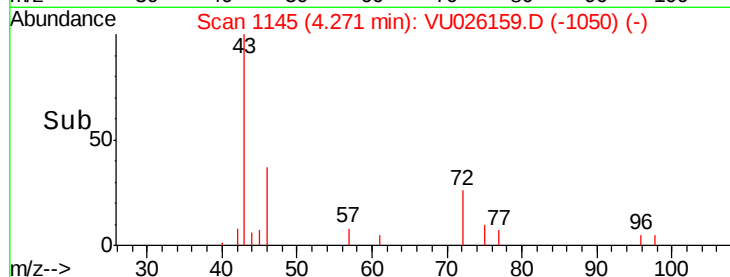
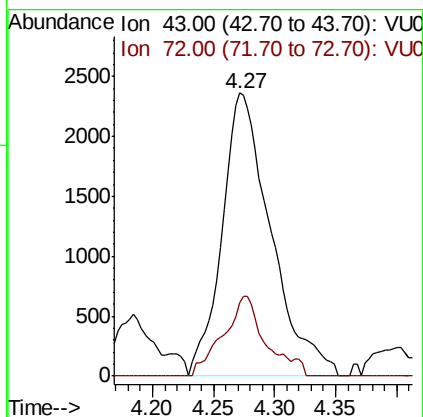
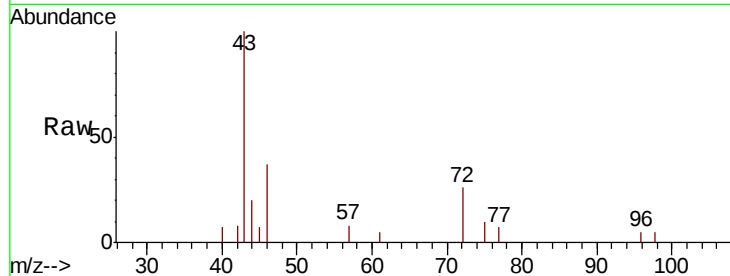
Acq: 15 Aug 2018 20:23

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	43	Resp	6593
Ion Ratio	100	Lower	Upper
43	100		
72	21.4	13.4	40.1

Manual Integrations
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#23

Bromochloromethane

Concen: 2.08 ug/L

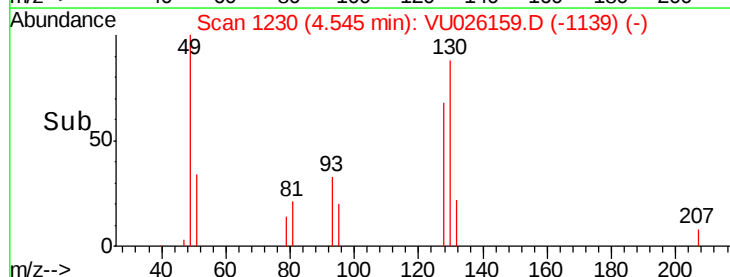
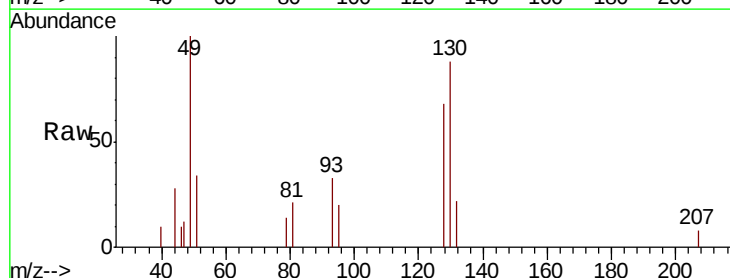
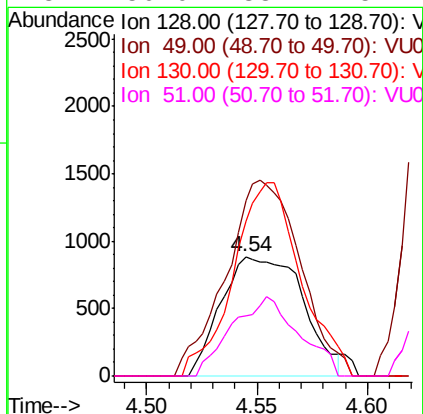
RT: 4.54 min Scan# 1230

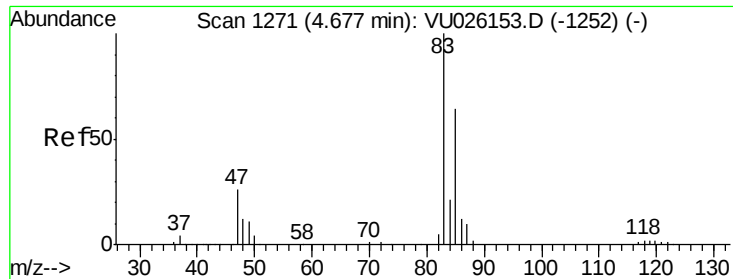
Delta R.T. -0.01 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Tgt Ion	128	Resp	2266
Ion Ratio	100	Lower	Upper
128	100		
49	147.4	101.3	188.1
130	130.0	86.4	160.4
51	50.0	38.1	57.1





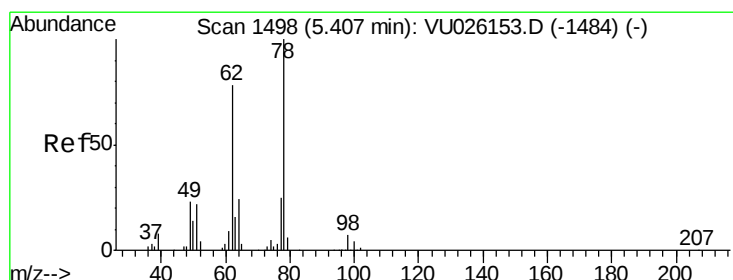
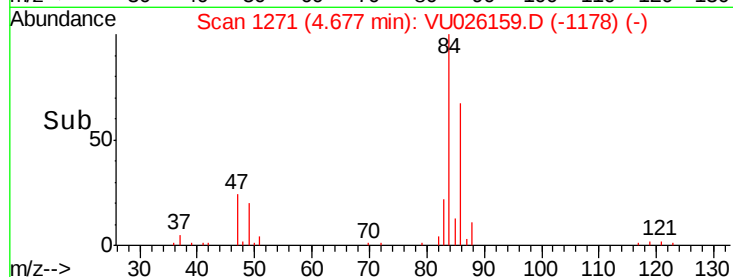
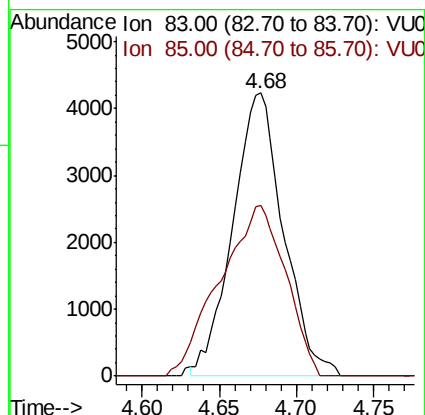
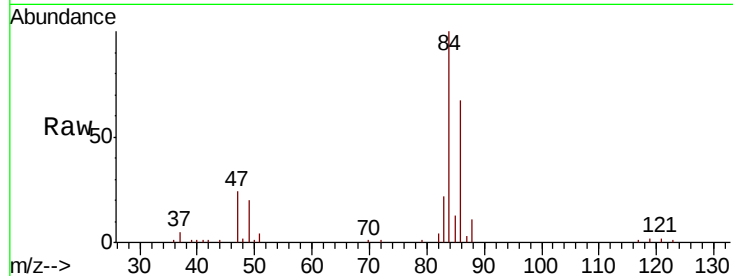
#25
Chloroform
Concen: 2.65 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	83	Resp	9647
Ion Ratio	100	Lower	Upper
85	60.1	46.3	86.1

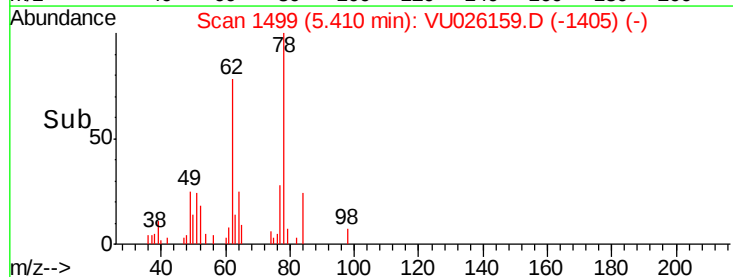
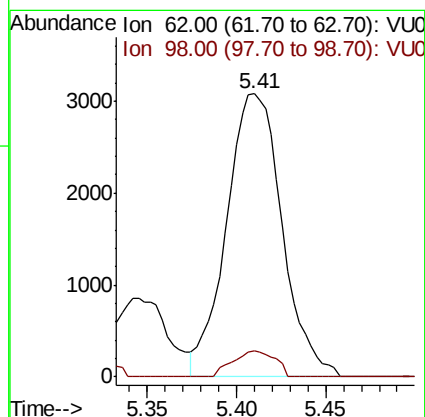
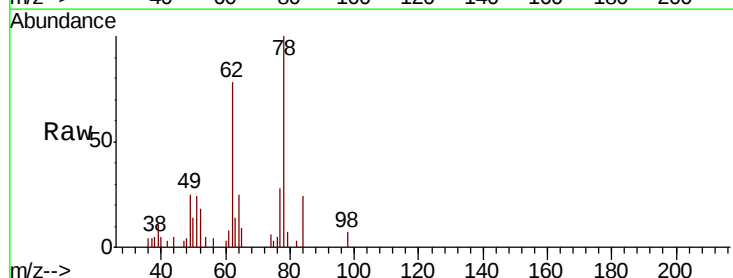
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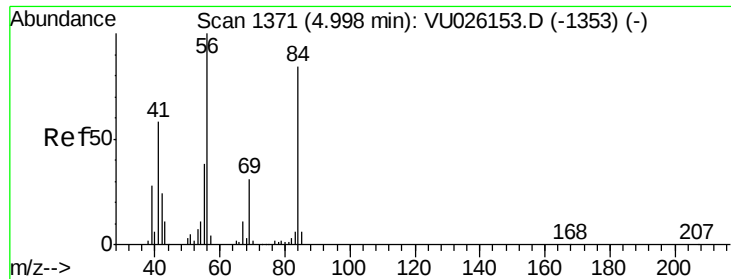
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#27
1,2-Dichloroethane
Concen: 2.28 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Tgt Ion	62	Resp	6708
Ion Ratio	100	Lower	Upper
98	9.4	7.0	10.4





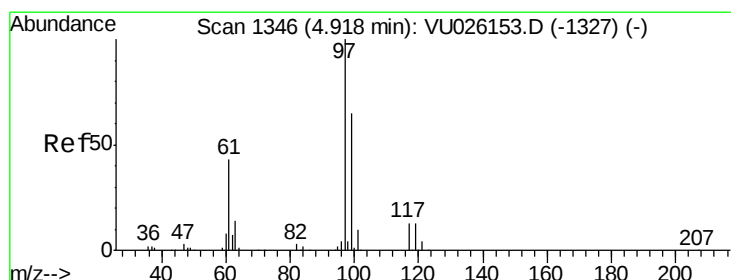
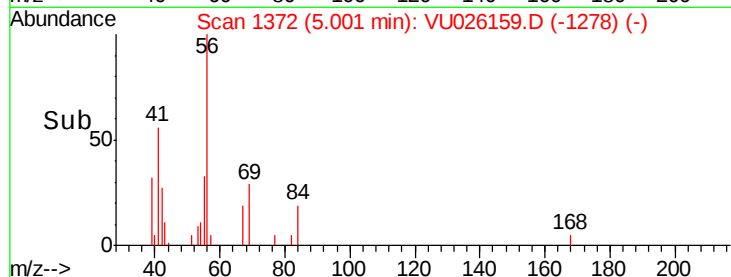
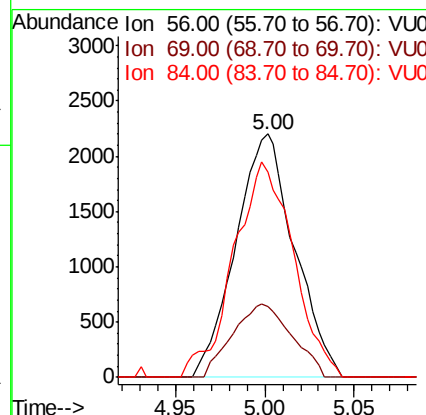
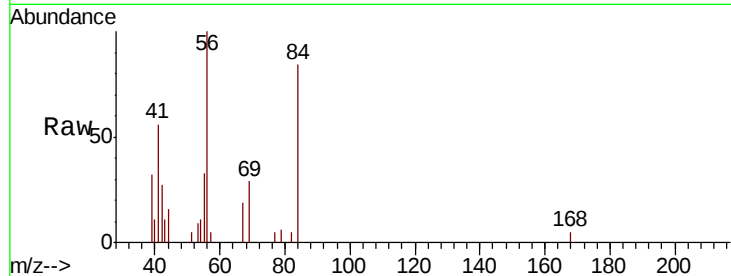
#29
Cyclohexane
Concen: 1.88 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.4	24.1	36.1
84	86.7	68.6	102.8

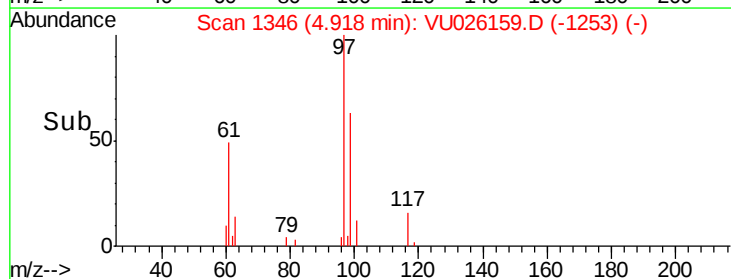
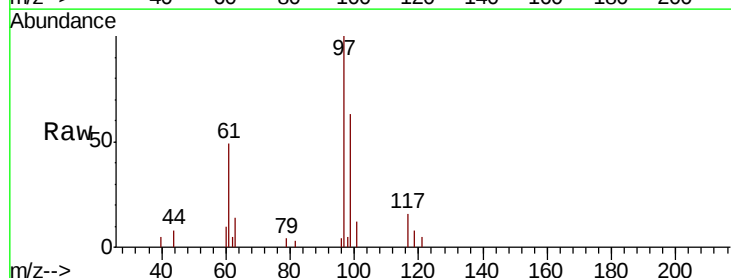
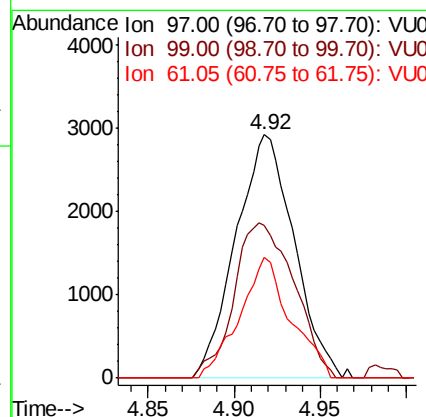
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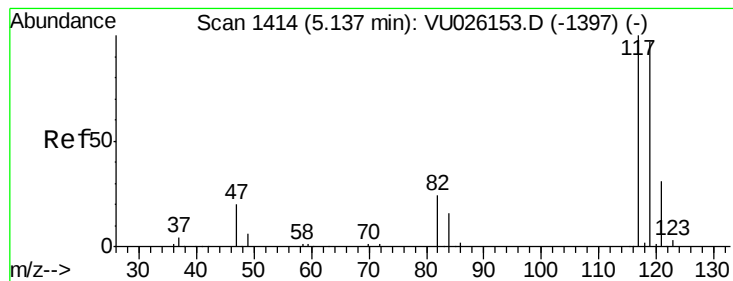
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#30
1,1,1-Trichloroethane
Concen: 2.14 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.2	78.2
61	43.4	35.4	53.0





#31

Carbon tetrachloride

Concen: 2.19 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:117 Resp: 6405

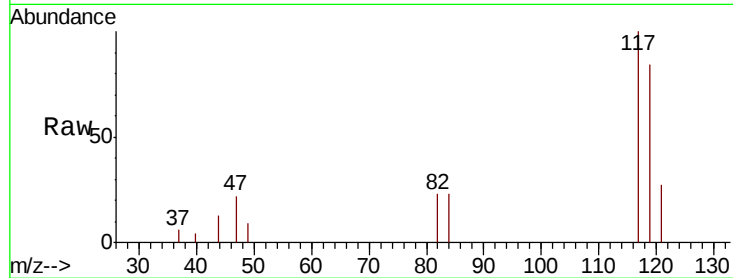
Ion Ratio Lower Upper

117 100

119 49.7 77.4 116.2#

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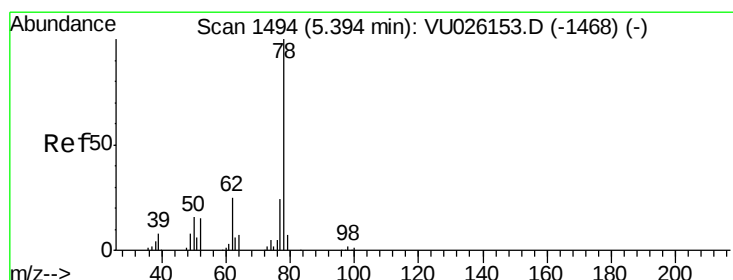
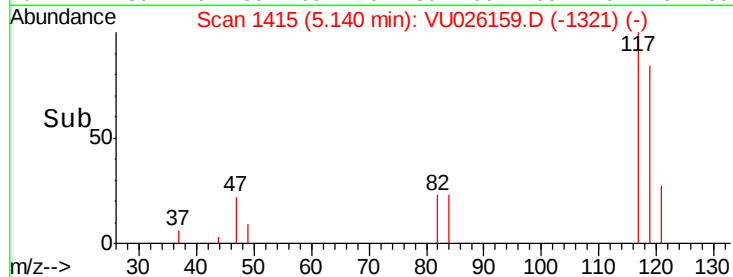


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.14

Time-->



#33

Benzene

Concen: 2.27 ug/L

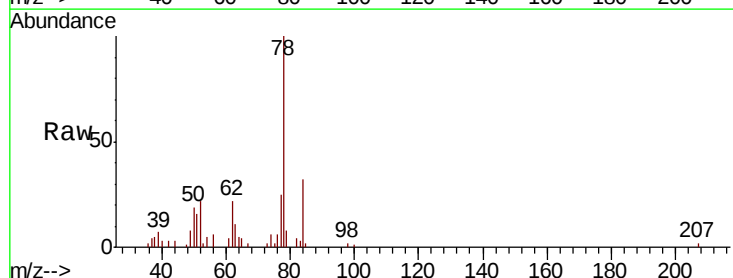
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

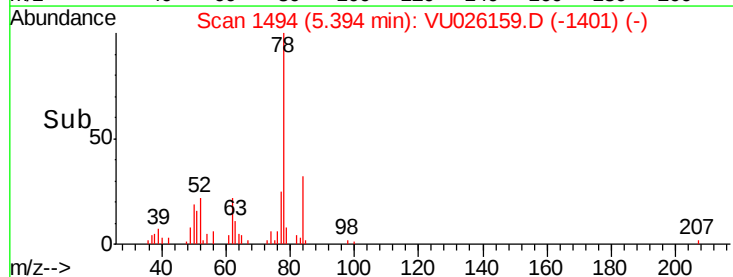
Tgt Ion: 78 Resp: 16565

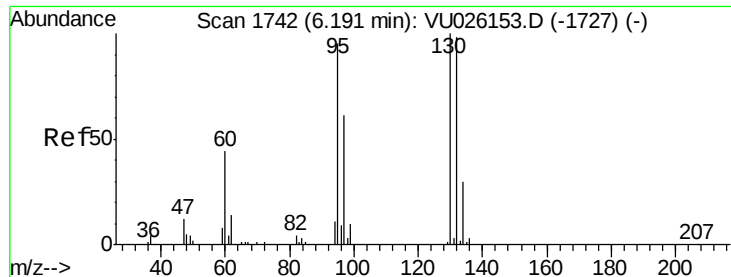


Abundance Ion 78.00 (77.70 to 78.70): VU0

5.39

Time-->





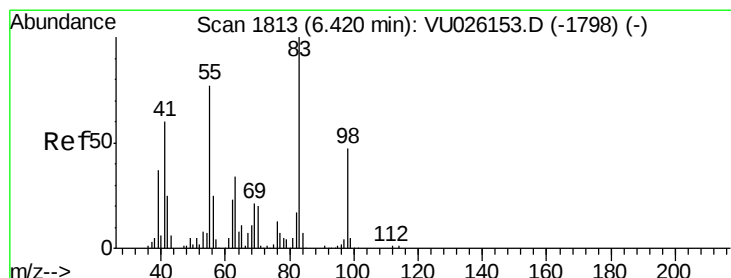
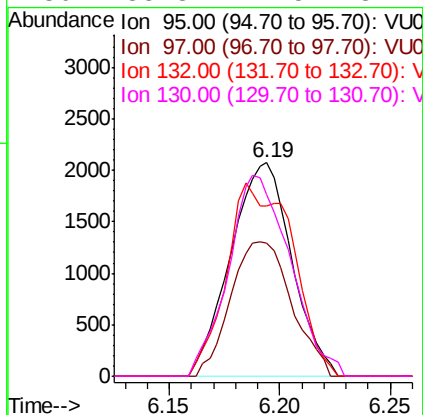
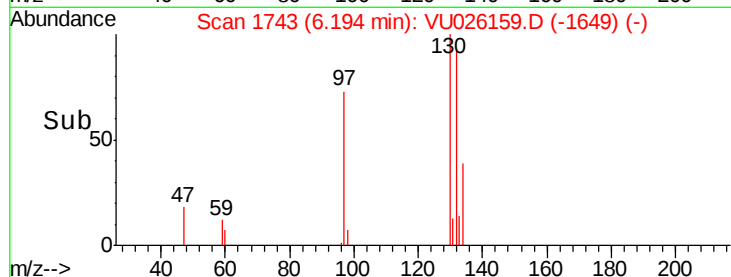
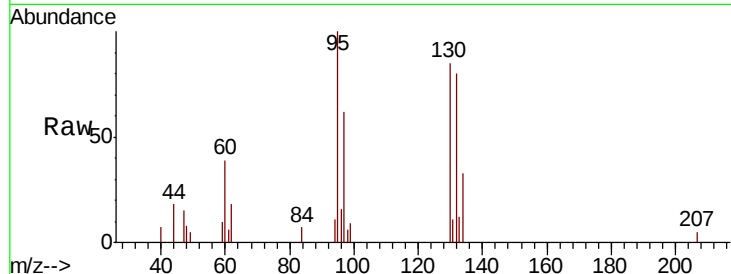
#34
 Trichloroethene
 Concen: 2.10 ug/L
 RT: 6.19 min Scan# 1743
 Delta R.T. 0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion:	95	Resp:	3997
Ion	Ratio	Lower	Upper
95	100		
97	62.1	45.7	84.9
132	79.7	68.8	127.8
130	85.3	71.5	132.7

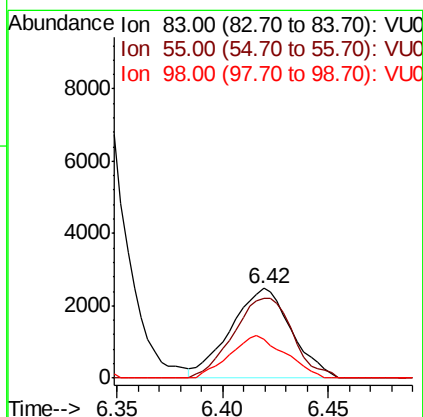
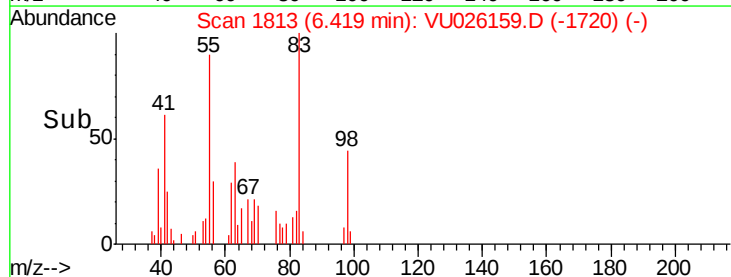
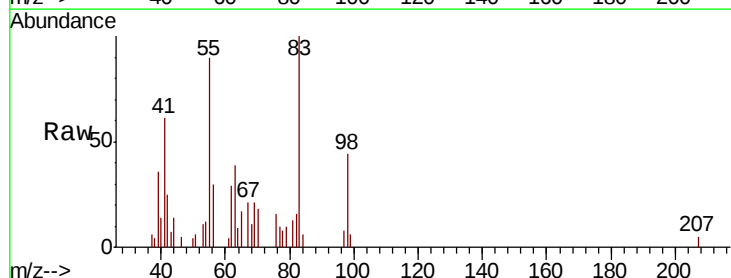
Manual Integrations
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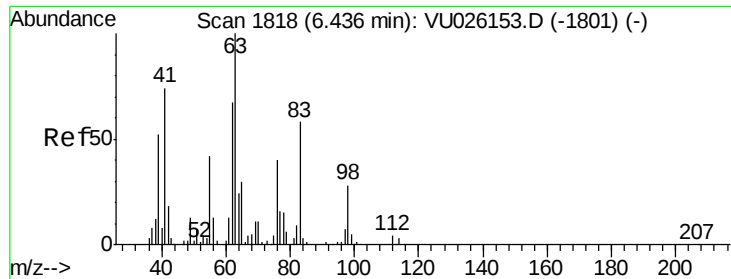
MMDadoda
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#35
 Methylcyclohexane
 Concen: 1.74 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Tgt Ion:	83	Resp:	4958
Ion	Ratio	Lower	Upper
83	100		
55	87.2	61.0	91.6
98	43.3	37.6	56.4





#37

1,2-Dichloropropane

Concen: 2.24 ug/L

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 63 Resp: 4561

Ion Ratio Lower Upper

63 100

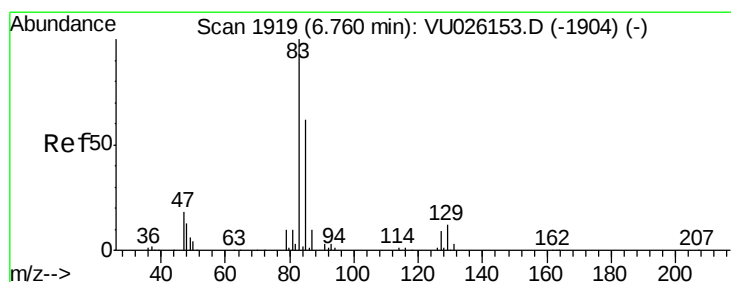
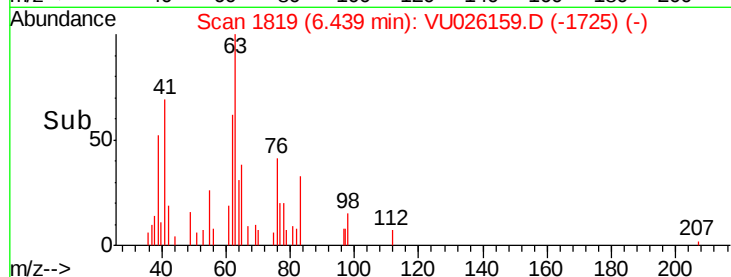
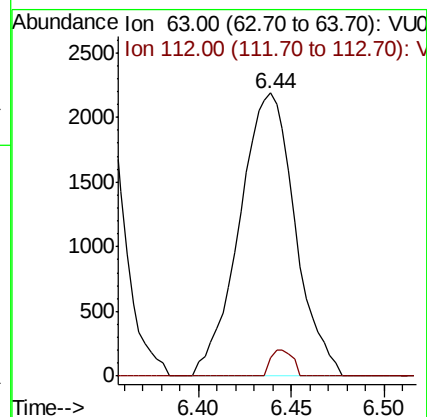
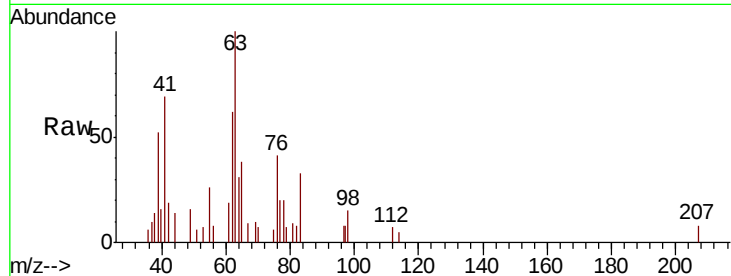
112 3.6 3.5 5.3

Manual Integrations

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#38

Bromodichloromethane

Concen: 2.19 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

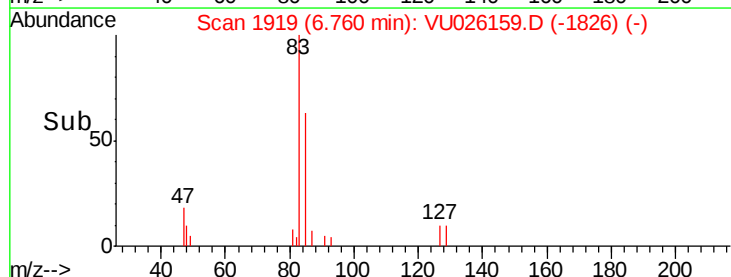
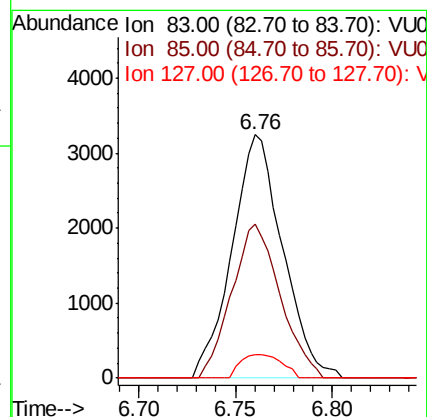
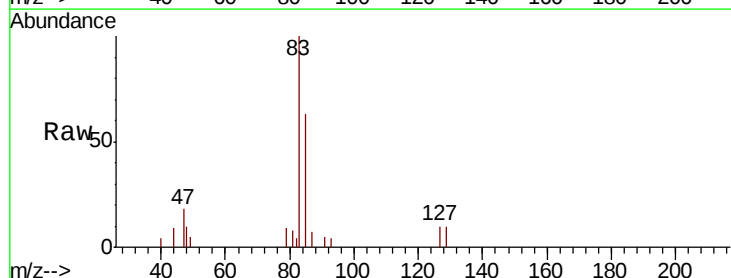
Tgt Ion: 83 Resp: 5903

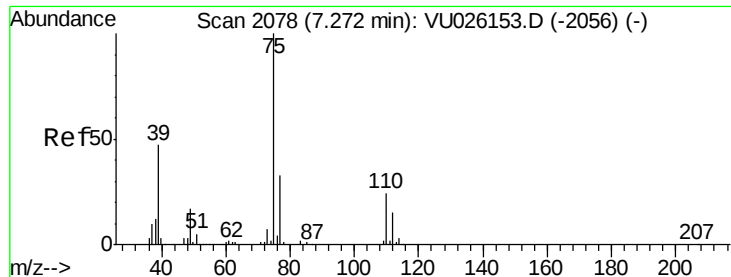
Ion Ratio Lower Upper

83 100

85 63.1 46.0 85.4

127 9.9 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 1.94 ug/L

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 75 Resp: 5876

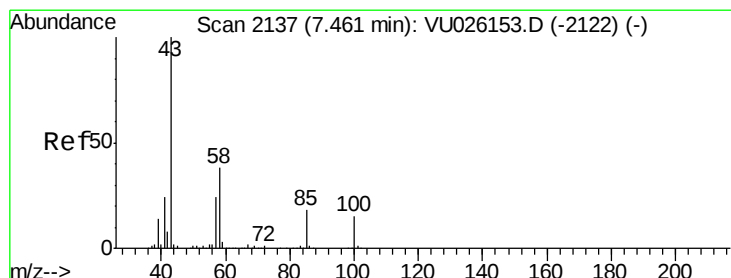
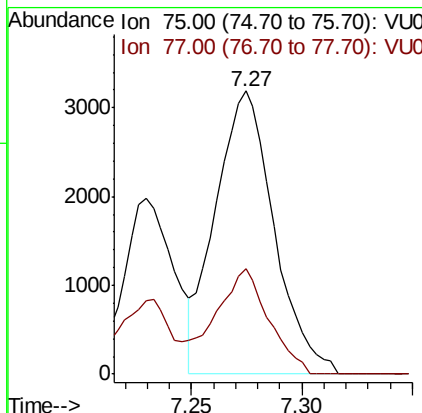
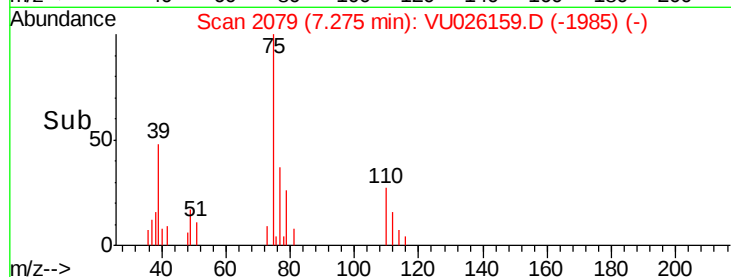
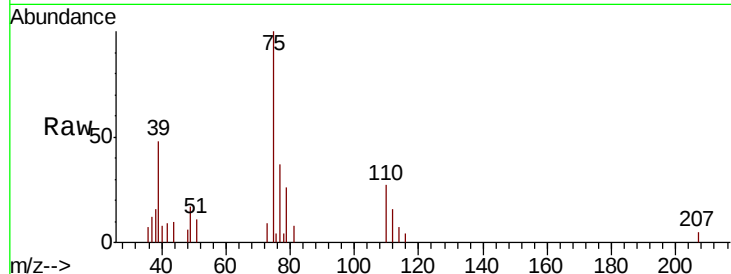
Ion Ratio Lower Upper

75 100

77 37.1 22.2 41.2

Manual Integrations
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#40

4-Methyl-2-pentanone

Concen: 4.27 ug/L

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

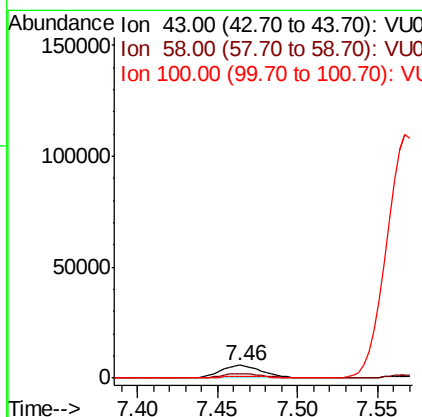
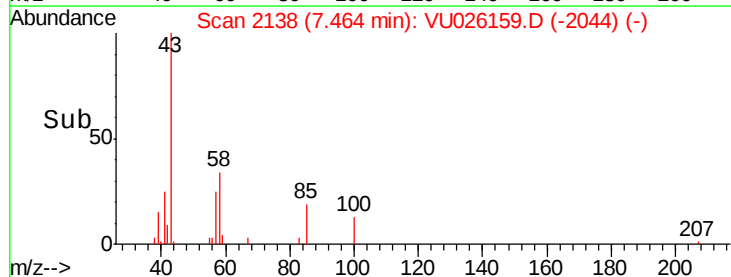
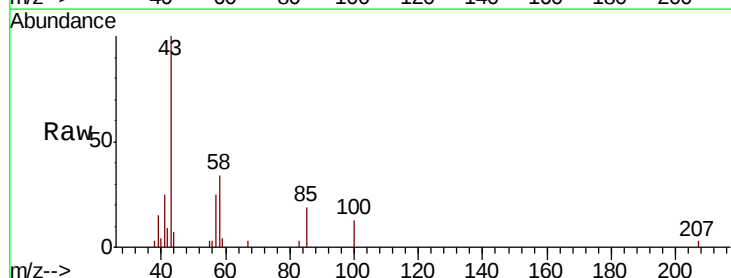
Tgt Ion: 43 Resp: 10790

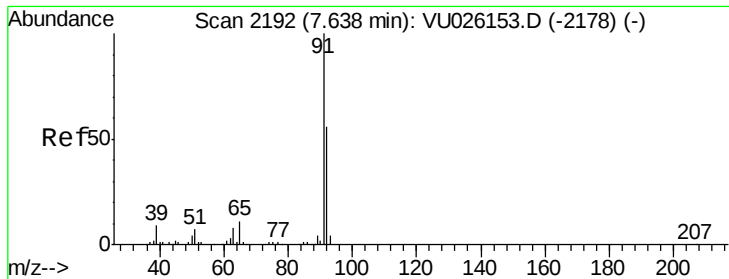
Ion Ratio Lower Upper

43 100

58 35.6 31.8 47.8

100 13.2 12.2 18.2





#42

Toluene

Concen: 2.11 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 16369

Ion Ratio Lower Upper

91 100

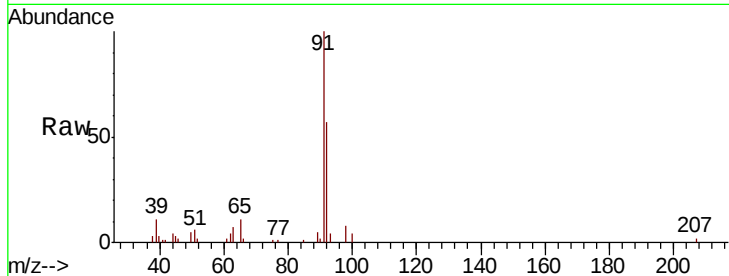
92 56.6 40.0 74.4

Manual Integrations

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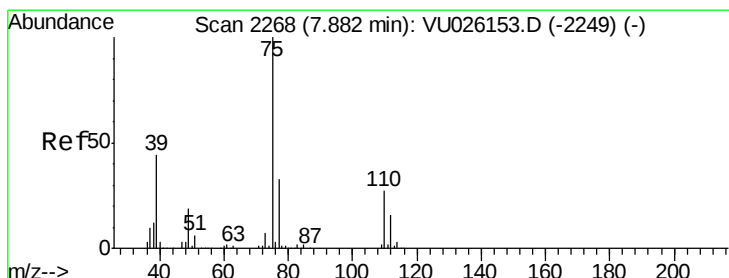
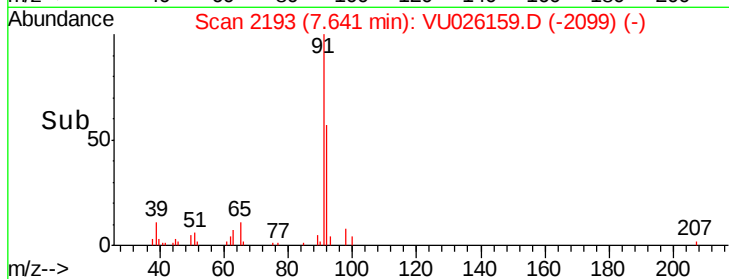
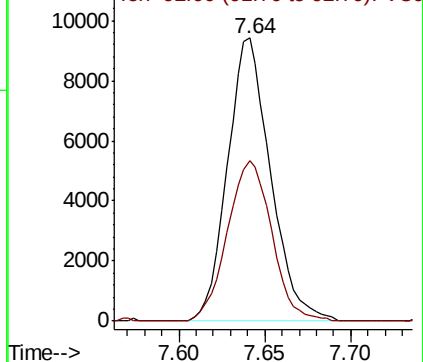
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Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 1.98 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026159.D

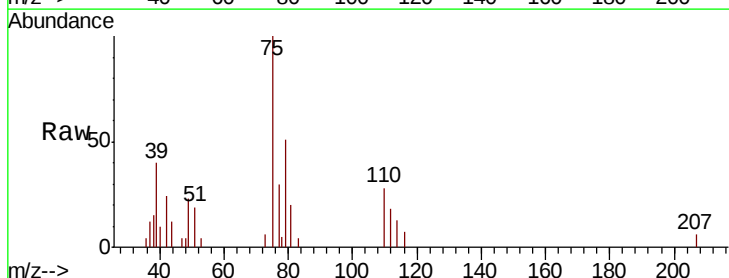
Acq: 15 Aug 2018 20:23

Tgt Ion: 75 Resp: 5774

Ion Ratio Lower Upper

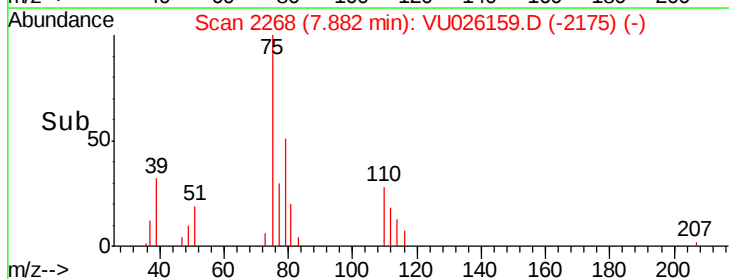
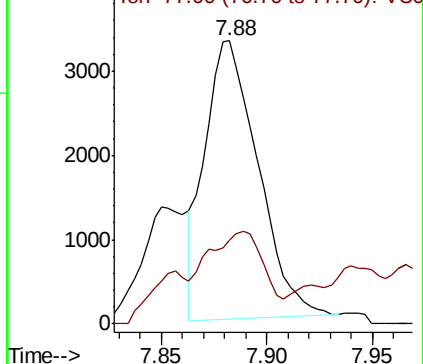
75 100

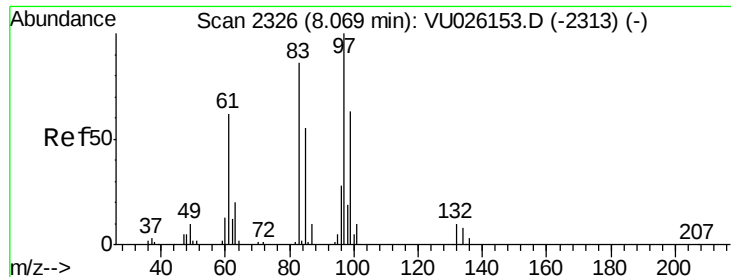
77 29.7 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





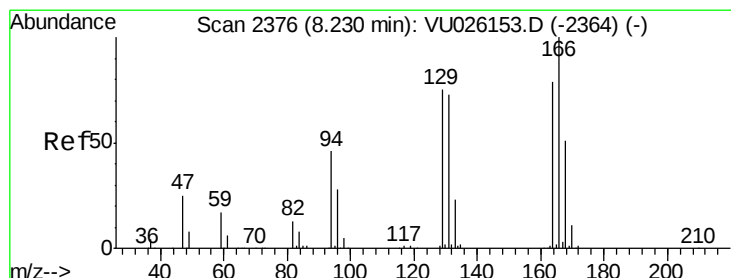
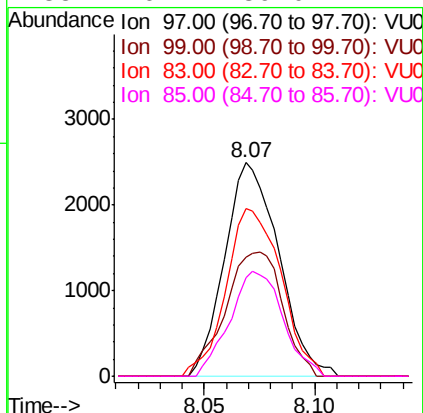
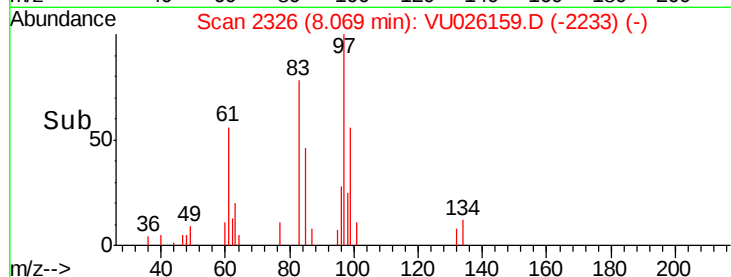
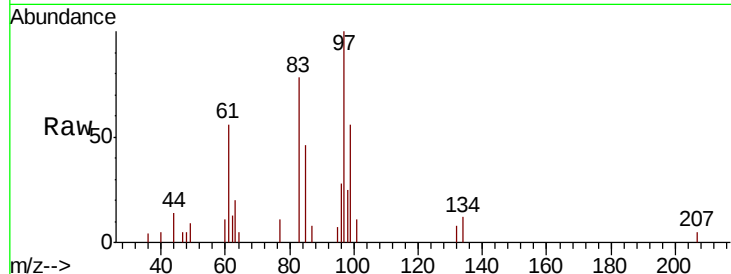
#45
 1,1,2-Trichloroethane
 Concen: 2.20 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:	97	Resp:	4258
Ion	Ratio	Lower	Upper
97	100		
99	56.0	43.3	80.5
83	78.2	58.4	108.6
85	46.4	39.0	72.4

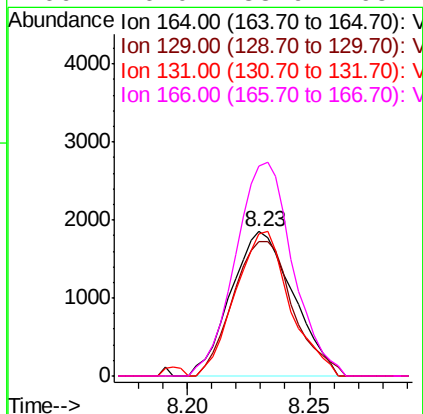
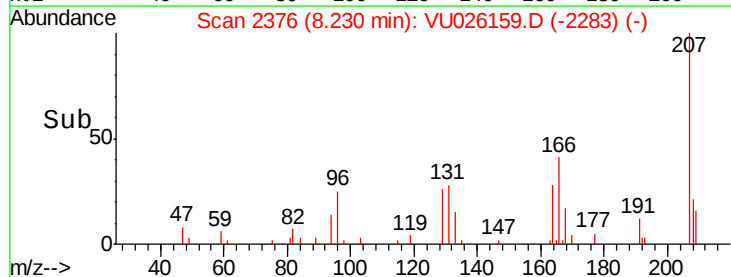
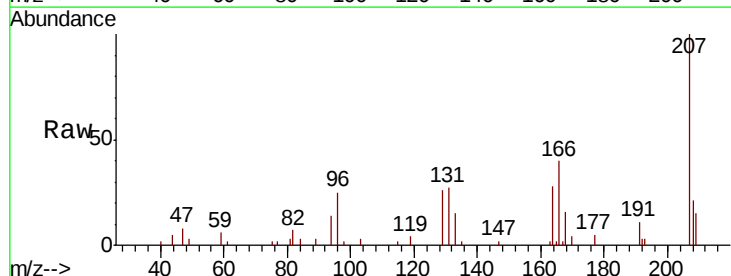
Manual Integrations
 APPROVED

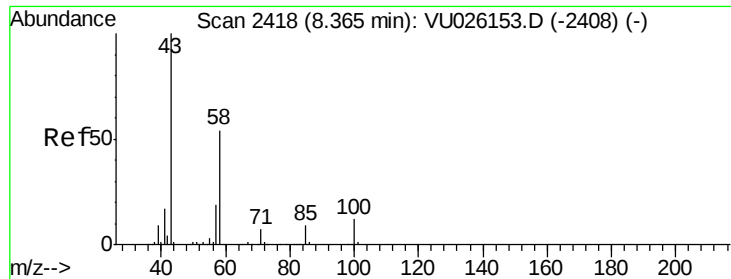
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#46
 Tetrachloroethene
 Concen: 2.01 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Tgt Ion:	164	Resp:	3290
Ion	Ratio	Lower	Upper
164	100		
129	93.4	65.7	121.9
131	99.0	62.0	115.2
166	146.0	88.9	165.1





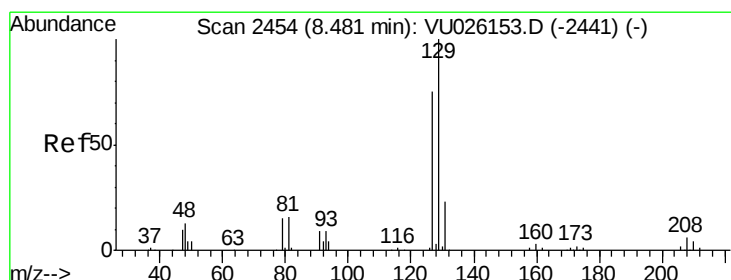
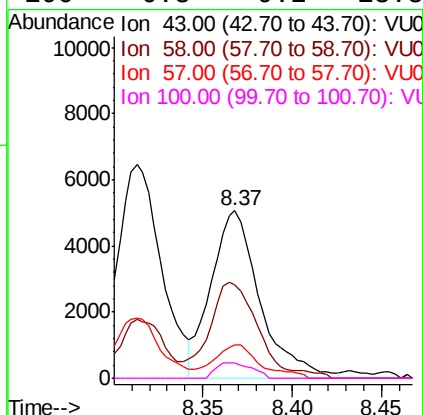
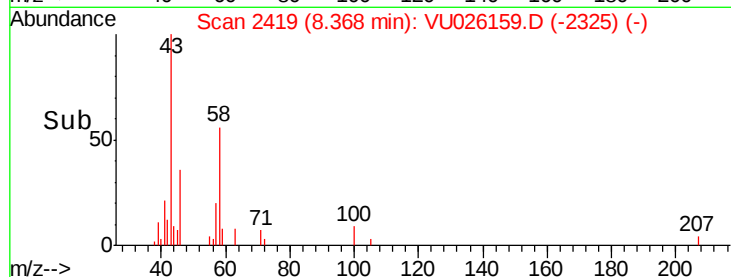
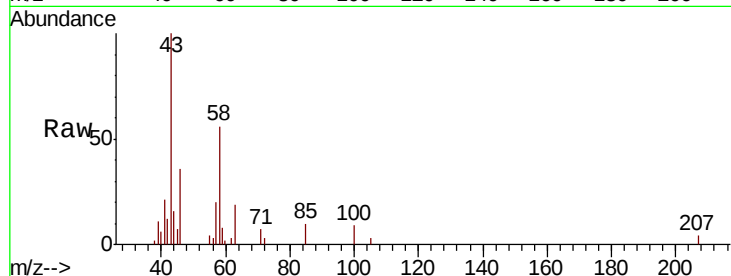
#48
2-Hexanone
Concen: 4.88 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.6	42.9	64.3
57	18.7	15.1	22.7
100	6.8	9.2	13.8

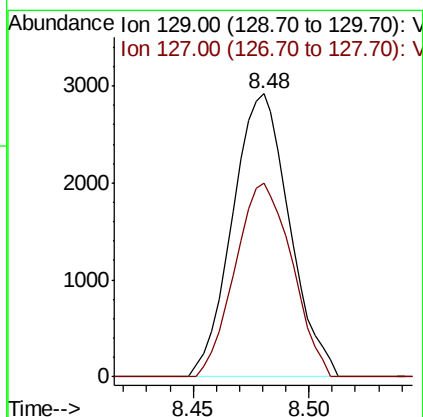
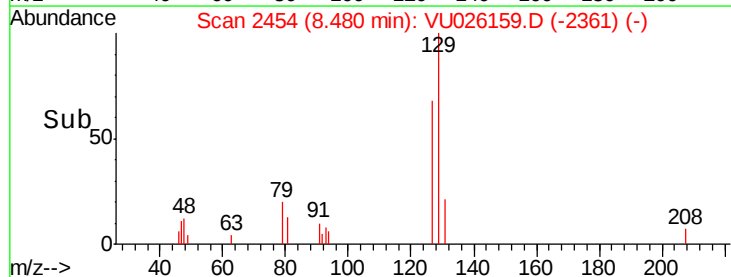
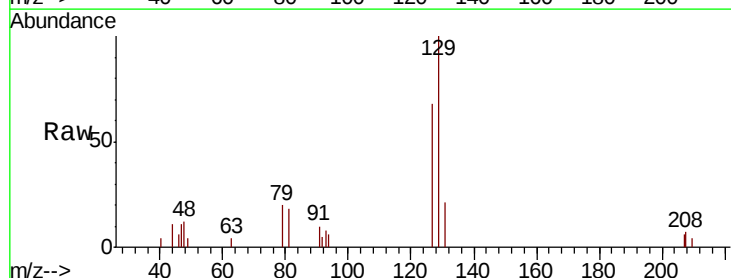
Manual Integrations
APPROVED

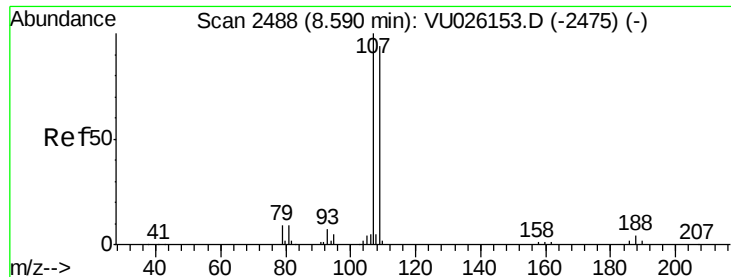
MMDadoda
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#49
Dibromochloromethane
Concen: 2.14 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Tgt Ion	Ratio	Lower	Upper
129	100		
127	68.3	54.6	101.4





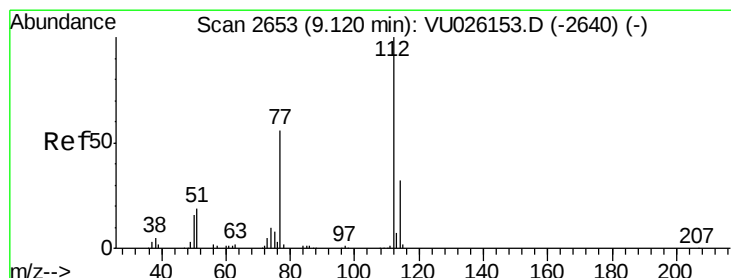
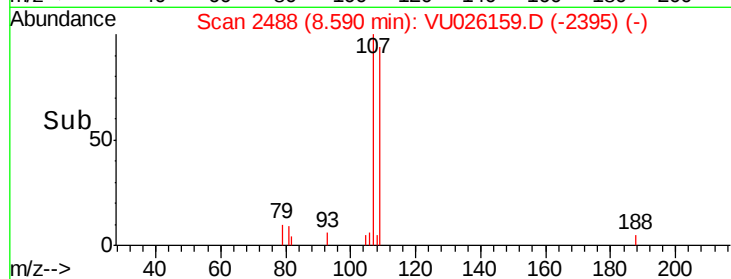
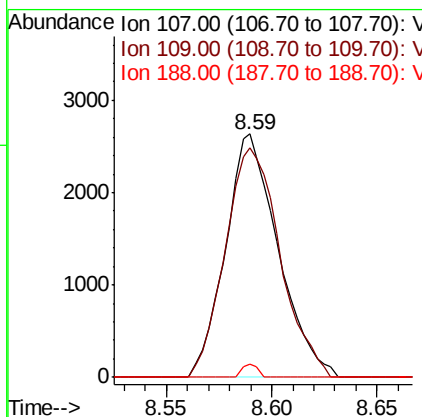
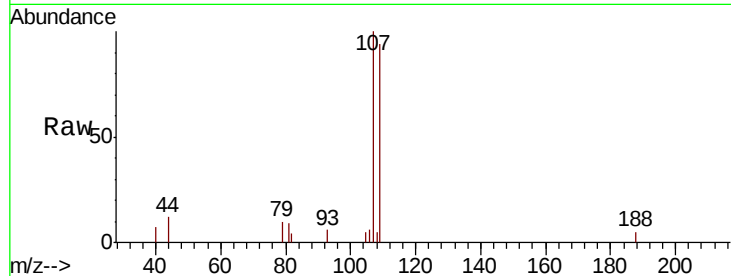
#50
 1,2-Dibromoethane
 Concen: 2.28 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Resp	Lower	Upper
107	100	4567		
109	94.3	66.1	122.7	
188	5.2	3.2	4.8#	

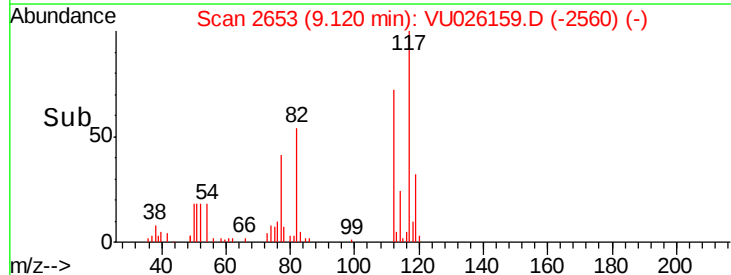
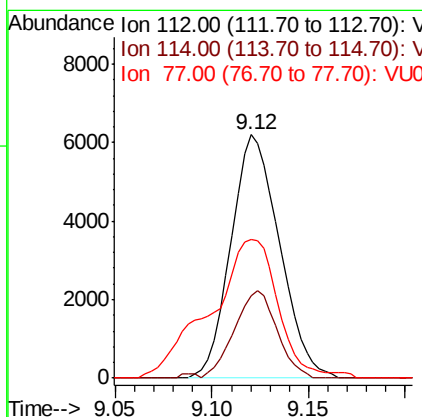
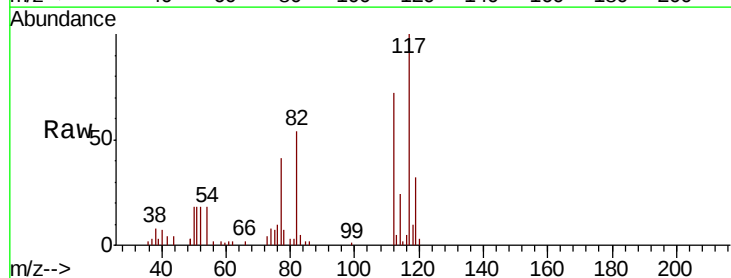
Manual Integrations
 APPROVED

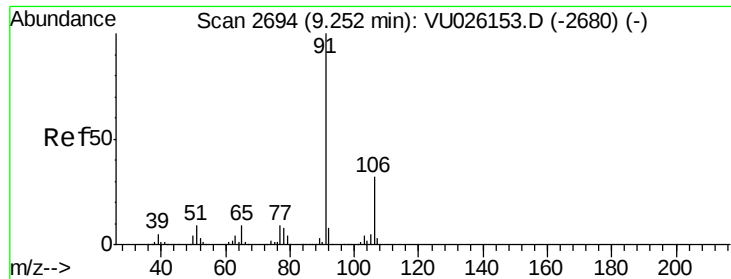
MMDadoda
 8/16/2018 4:20:21 PM



#51
 Chlorobenzene
 Concen: 2.04 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	10826		
114	33.8	22.5	41.9	
77	56.8	45.0	67.4	





#52

Ethylbenzene

Concen: 1.91 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 16153

Ion Ratio Lower Upper

91 100

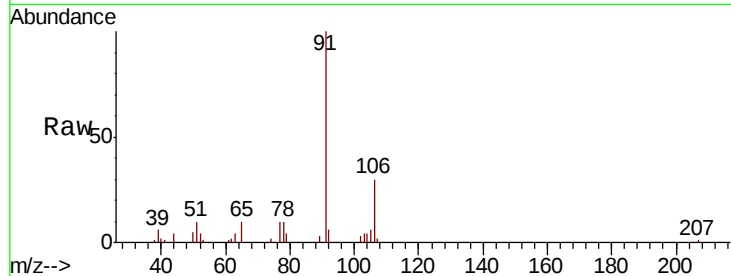
106 30.2 22.3 41.5

Manual Integrations

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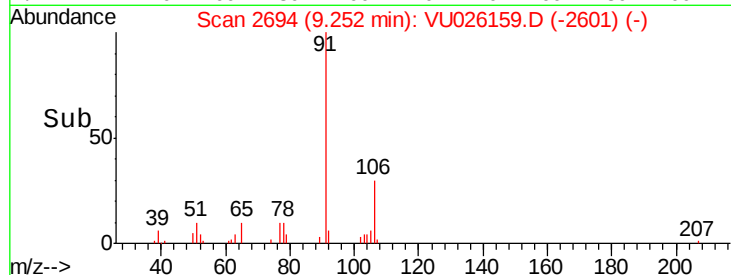


Abundance Ion 91.00 (90.70 to 91.70): VU026153.D (-2680) (-)

Ion 106.00 (105.70 to 106.70): VU026153.D (-2680) (-)

9.25

Time-->

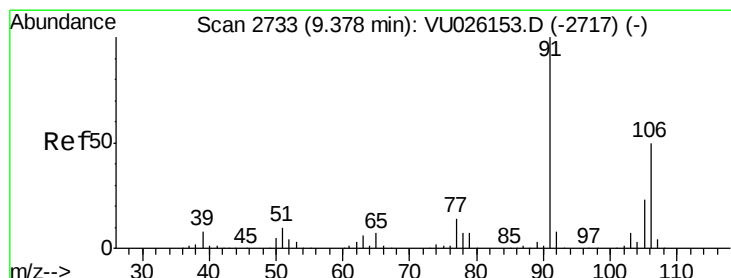


Abundance Ion 91.00 (90.70 to 91.70): VU026159.D (-2601) (-)

Ion 106.00 (105.70 to 106.70): VU026159.D (-2601) (-)

9.25

Time-->



#53

m,p-Xylene

Concen: 1.73 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026159.D

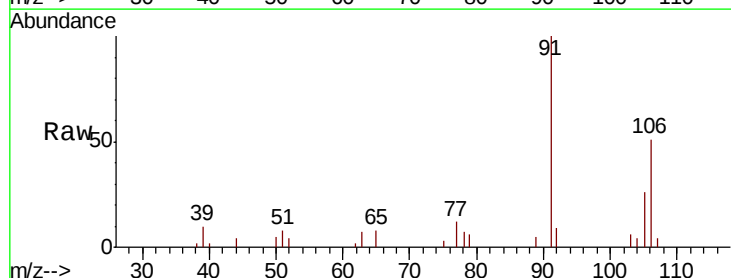
Acq: 15 Aug 2018 20:23

Tgt Ion: 106 Resp: 5633

Ion Ratio Lower Upper

106 100

91 196.2 139.2 258.4

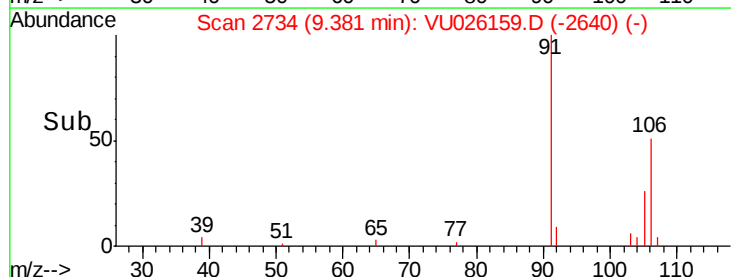


Abundance Ion 106.00 (105.70 to 106.70): VU026153.D (-2717) (-)

Ion 91.00 (90.70 to 91.70): VU026153.D (-2717) (-)

9.38

Time-->

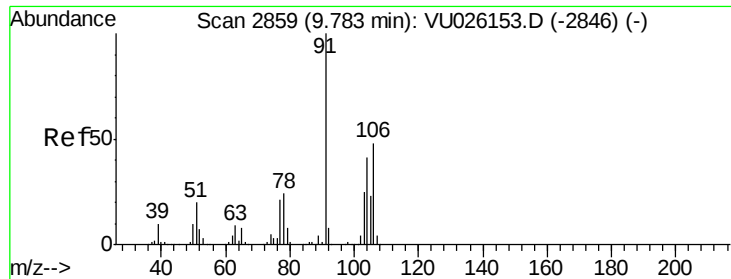


Abundance Ion 106.00 (105.70 to 106.70): VU026159.D (-2640) (-)

Ion 91.00 (90.70 to 91.70): VU026159.D (-2640) (-)

9.38

Time-->



#54

o-xylene

Concen: 1.77 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion:106 Resp: 5734

Ion Ratio Lower Upper

106 100

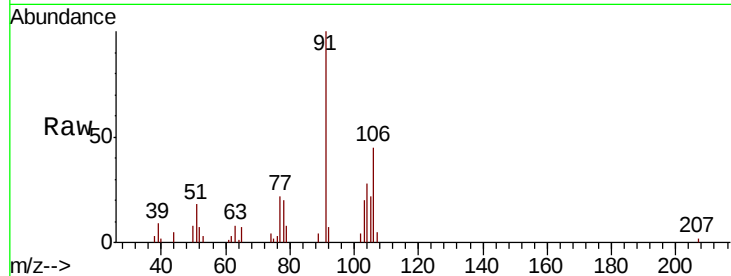
91 223.9 148.0 274.8

Manual Integrations

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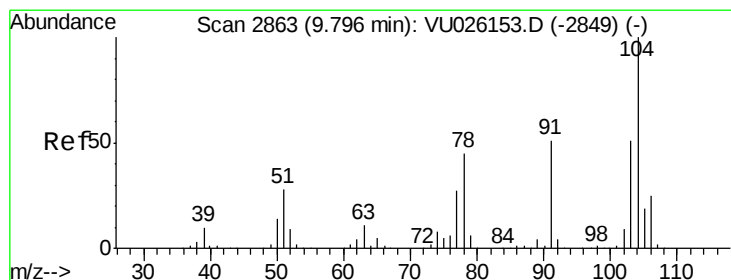
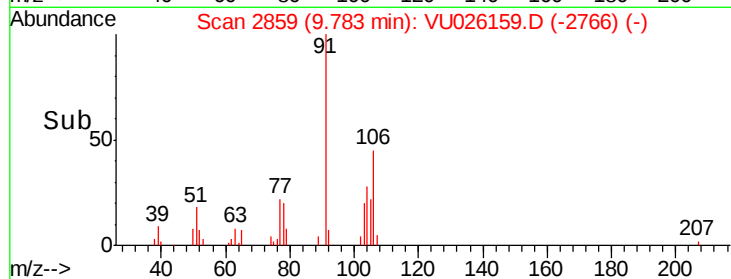
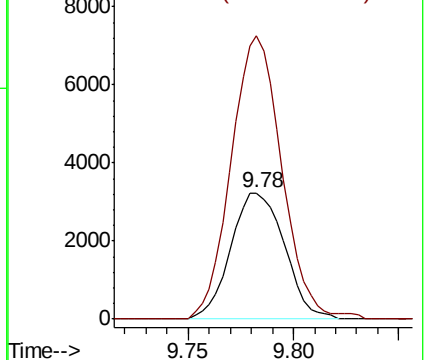
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.64 ug/L

RT: 9.80 min Scan# 2864

Delta R.T. 0.00 min

Lab File: VU026159.D

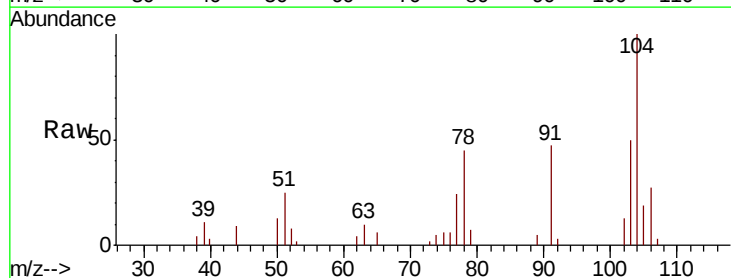
Acq: 15 Aug 2018 20:23

Tgt Ion:104 Resp: 8872

Ion Ratio Lower Upper

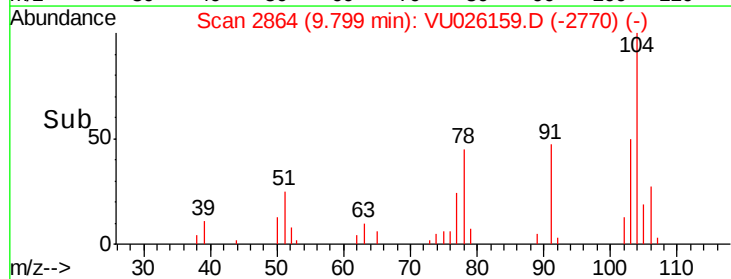
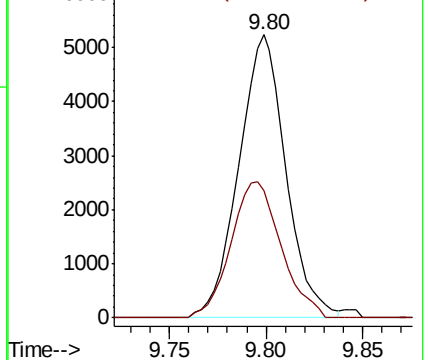
104 100

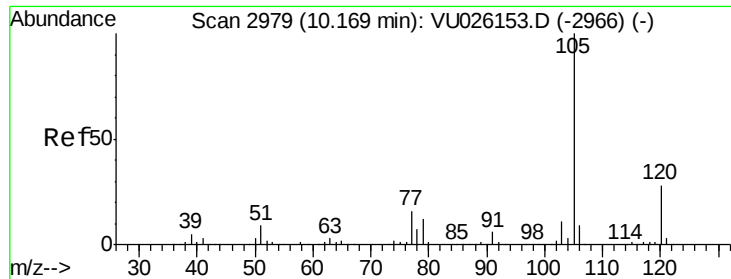
78 44.9 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





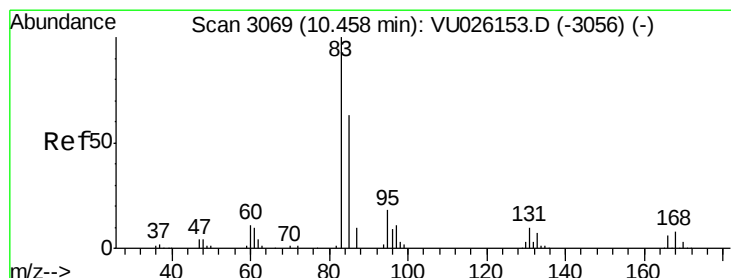
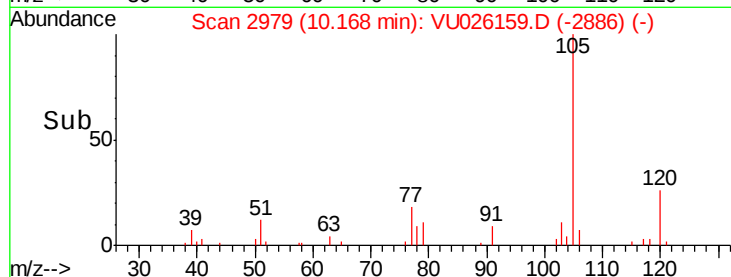
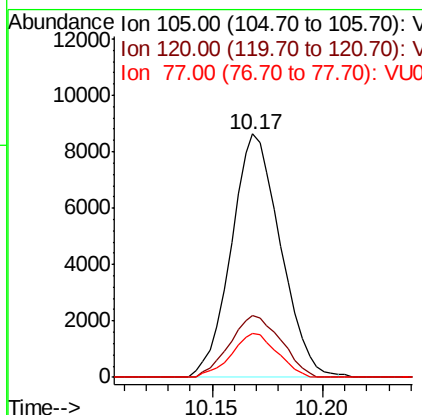
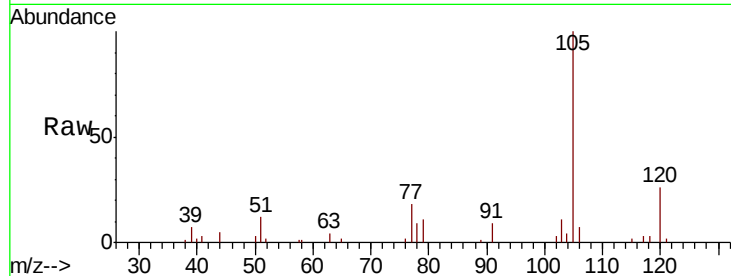
#56
Isopropylbenzene
Concen: 1.60 ug/L
RT: 10.17 min Scan# 2979
Delta R.T. -0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.2	21.5	32.3
77	16.9	12.3	18.5

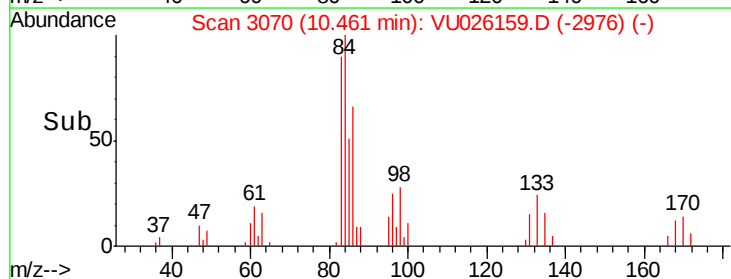
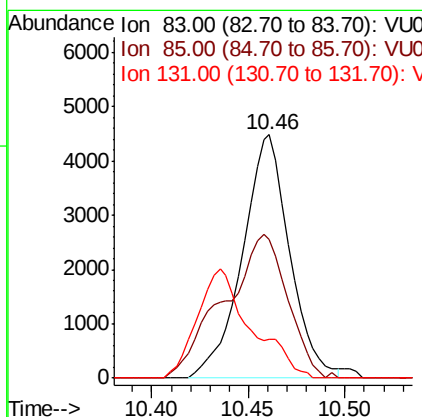
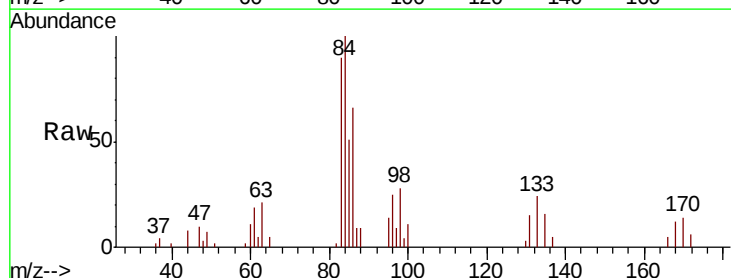
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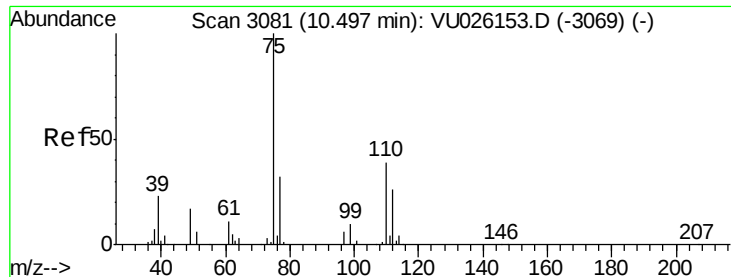
MMDadoda
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#58
1,1,2,2-Tetrachloroethane
Concen: 2.36 ug/L
RT: 10.46 min Scan# 3070
Delta R.T. 0.00 min
Lab File: VU026159.D
Acq: 15 Aug 2018 20:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.7	45.0	83.6
131	16.1	8.4	12.6#





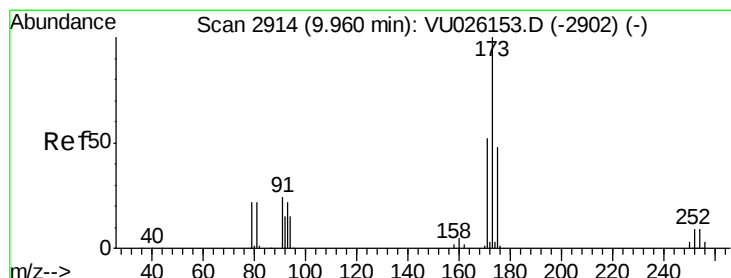
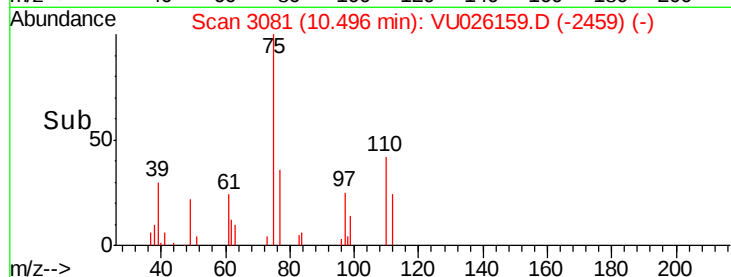
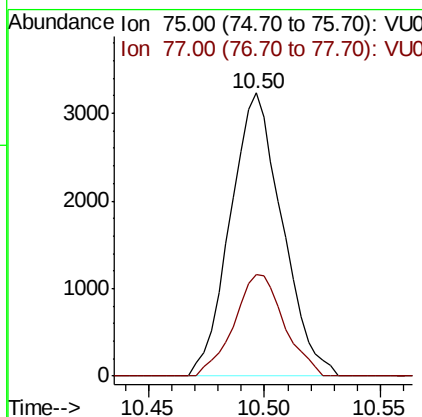
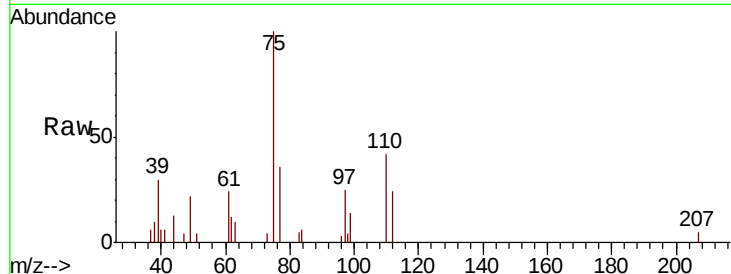
#59
 1,2,3-Trichloropropane
 Concen: 2.00 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 75 Resp: 5013
 Ion Ratio Lower Upper
 75 100
 77 34.7 26.1 39.1

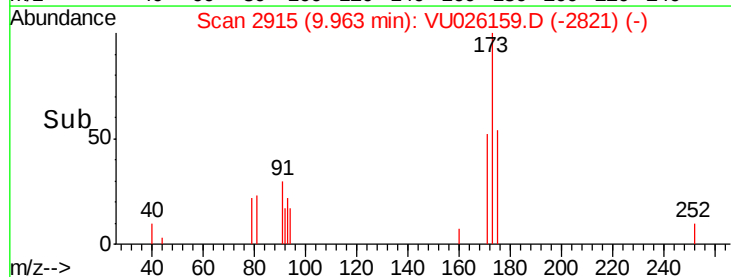
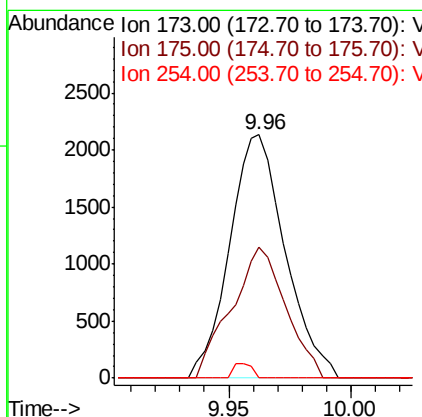
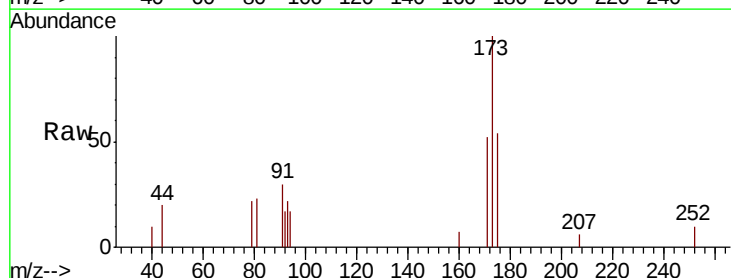
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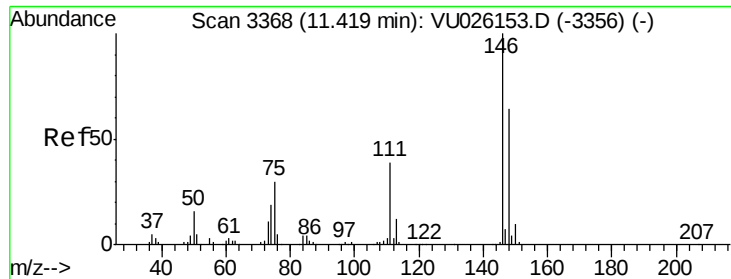
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#61
 Bromoform
 Concen: 2.25 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Tgt Ion:173 Resp: 3359
 Ion Ratio Lower Upper
 173 100
 175 52.6 38.8 58.2
 254 2.1 7.3 10.9#





#62

1,3-Dichlorobenzene

Concen: 2.05 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

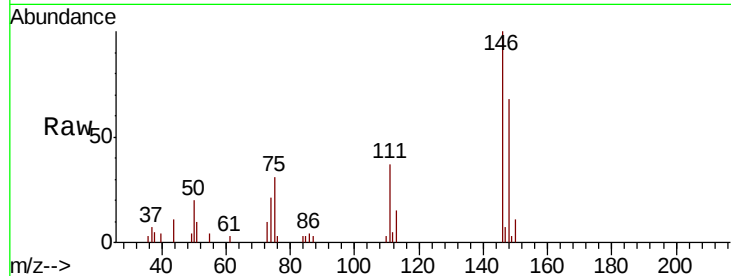
ClientSampleId :

MDL04

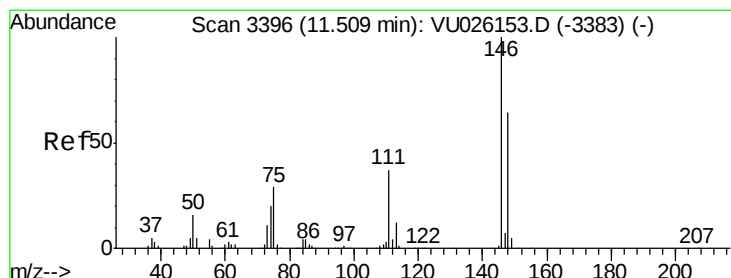
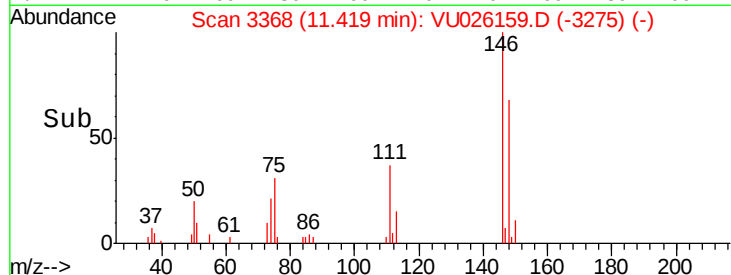
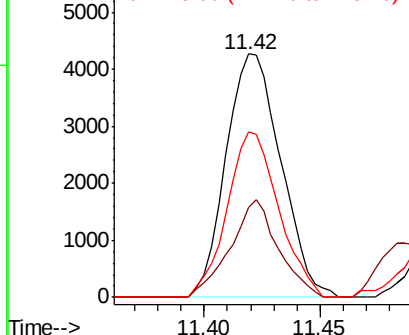
Tot Ion:	146	Resp:	7000
Ion	Ratio	Lower	Upper
146	100		
111	37.0	26.7	49.7
148	67.9	44.1	81.9

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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



#63

1,4-Dichlorobenzene

Concen: 2.08 ug/L

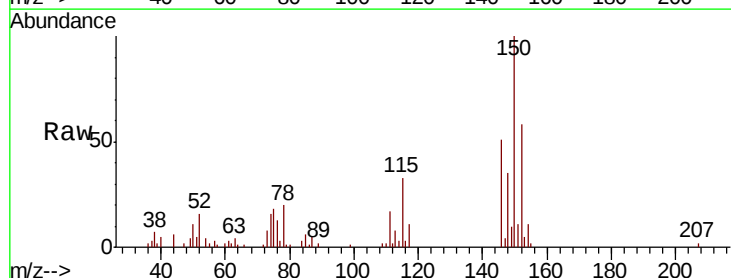
RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

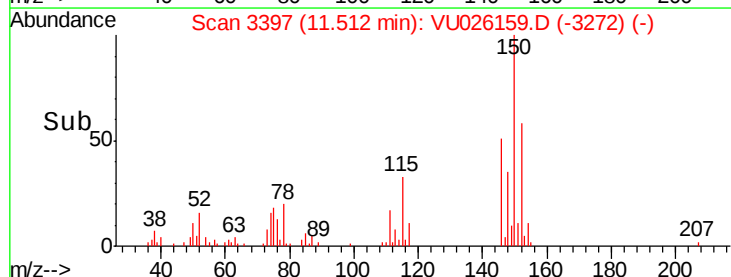
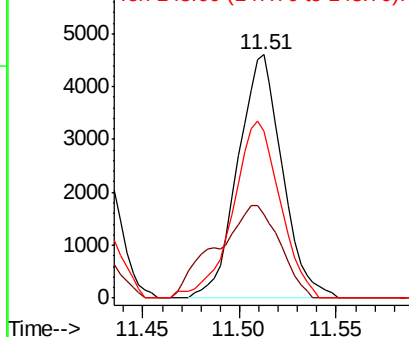
Lab File: VU026159.D

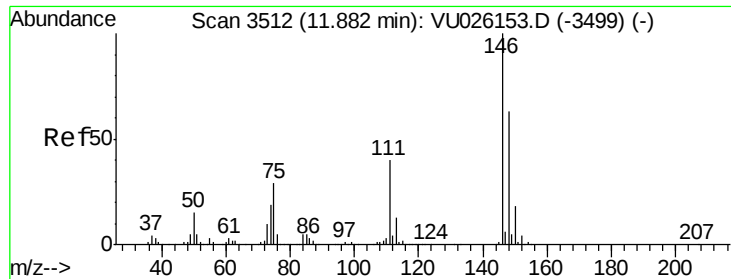
Acq: 15 Aug 2018 20:23

Tgt Ion:	146	Resp:	7345
Ion	Ratio	Lower	Upper
146	100		
111	34.5	27.5	51.1
148	68.6	44.8	83.2



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





#65

1,2-Dichlorobenzene

Concen: 2.40 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

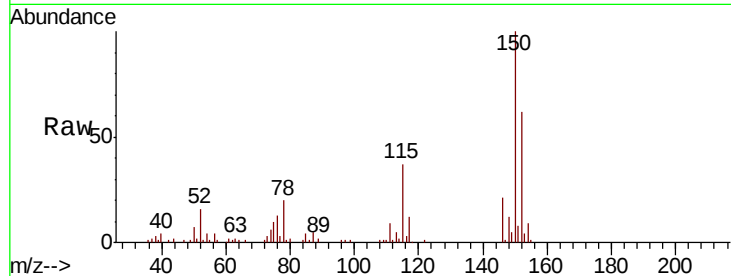
ClientSampled :

MDL04

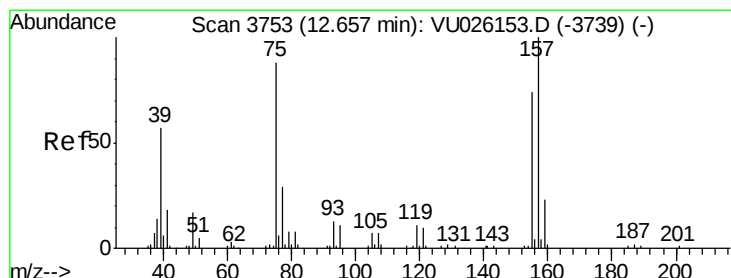
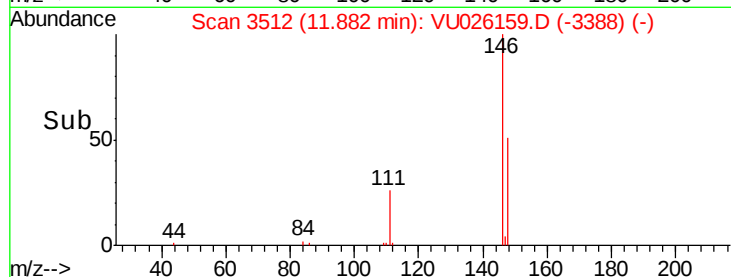
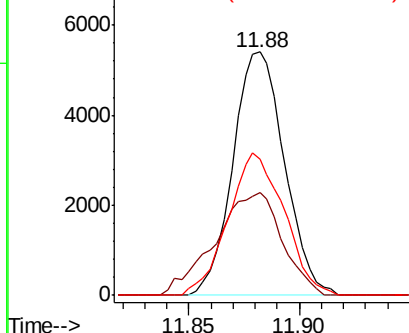
Tot Ion:	146	Resp:	8767
Ion Ratio	Lower	Upper	
146	100		
111	42.3	32.7	49.1
148	56.1	51.4	77.2

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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: 2.76 ug/L

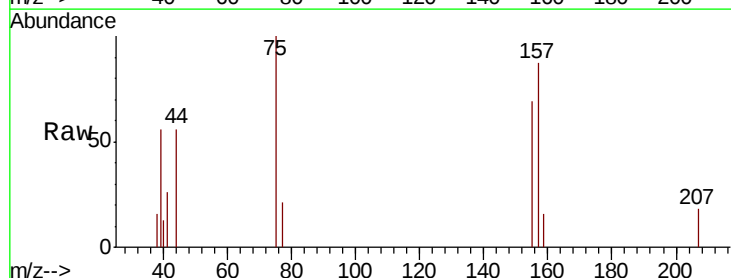
RT: 12.66 min Scan# 3755

Delta R.T. 0.01 min

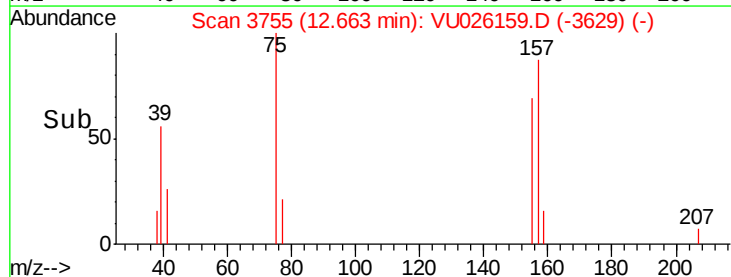
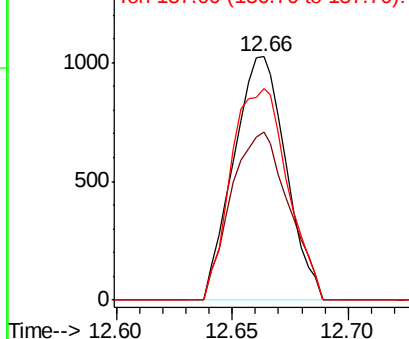
Lab File: VU026159.D

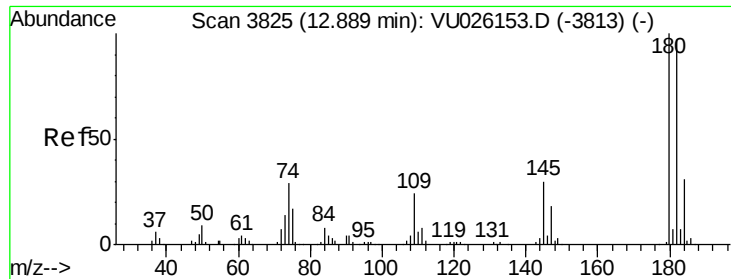
Acq: 15 Aug 2018 20:23

Tgt Ion:	75	Resp:	1600
Ion Ratio	Lower	Upper	
75	100		
155	69.1	68.2	102.2
157	86.7	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





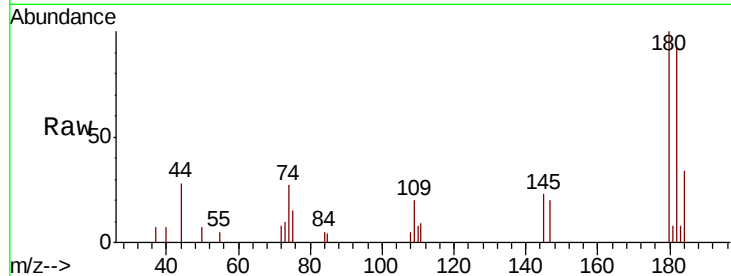
#67
 1,3,5-Trichlorobenzene
 Concen: 1.81 ug/L
 RT: 12.89 min Scan# 3827
 Delta R.T. 0.01 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	75.6	113.4
184	32.5	24.3	36.5
145	22.5	23.3	34.9#

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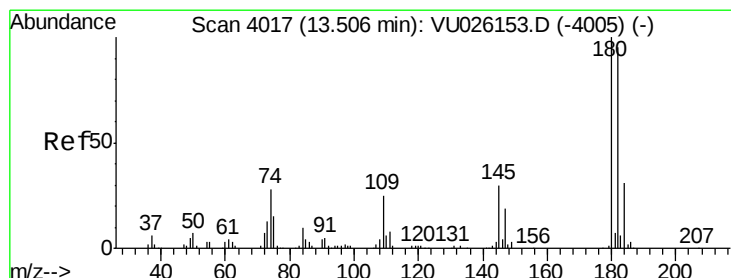
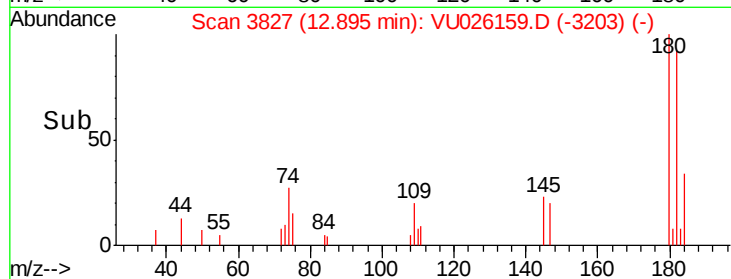
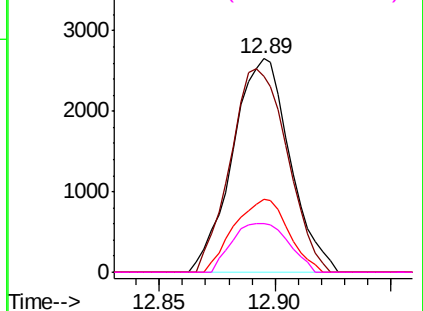
Abundance

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: 1.23 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026159.D
 Acq: 15 Aug 2018 20:23

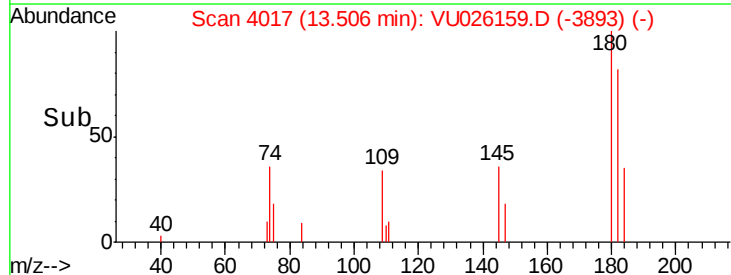
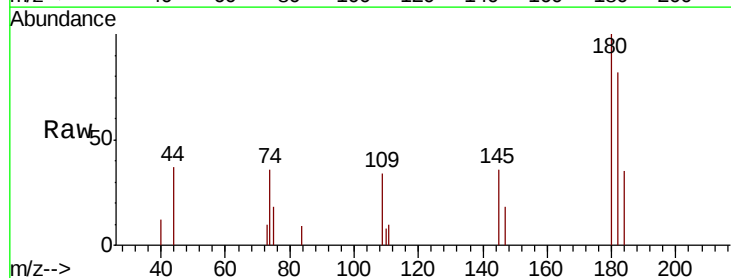
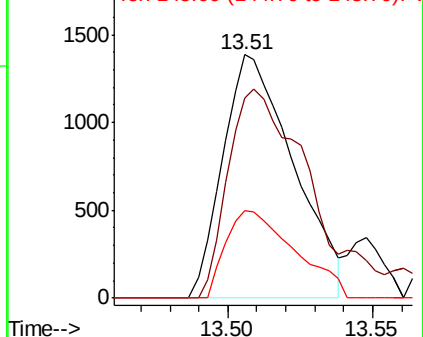
Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.4	76.8	115.2
145	34.9	23.8	35.6

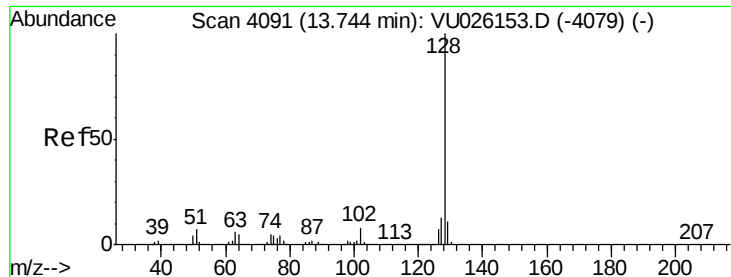
Abundance

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: 1.48 ug/L m

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Instrument :

MSVOA_U

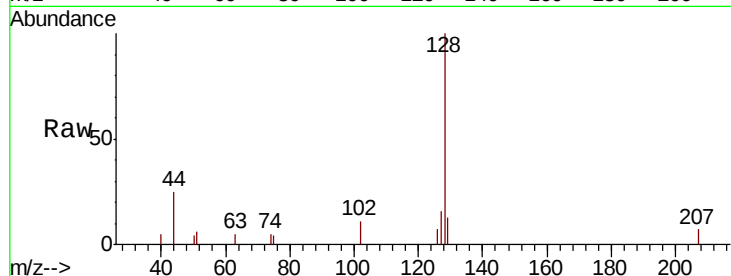
ClientSampleId :

MDL04

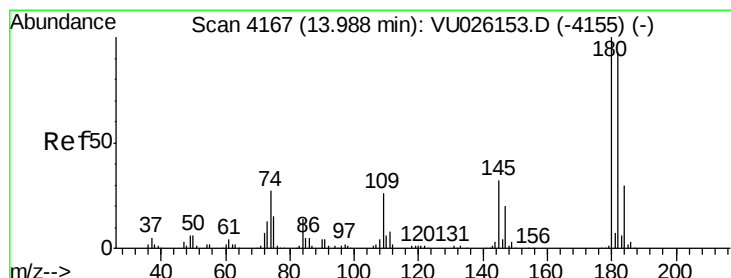
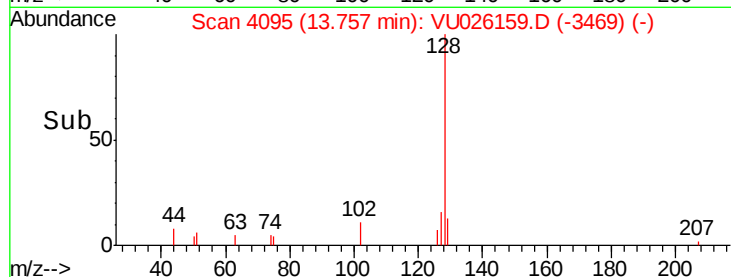
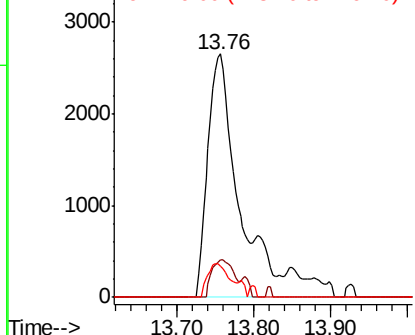
Tot Ion:	128	Resp:	8066
Ion Ratio	Lower	Upper	
128	100		
127	9.6	10.3	15.5#
129	8.6	8.6	13.0

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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.44 ug/L

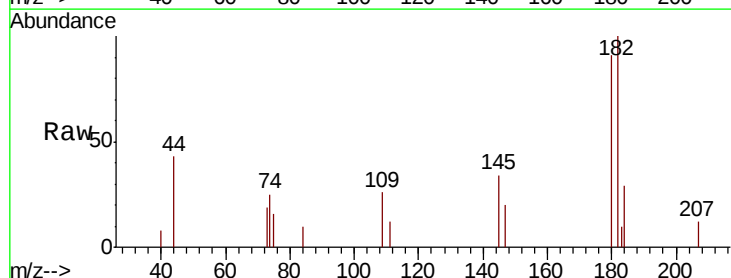
RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU026159.D

Acq: 15 Aug 2018 20:23

Tgt Ion:	180	Resp:	2960
Ion Ratio	Lower	Upper	
180	100		
182	100.9	77.1	115.7
145	27.9	25.1	37.7



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

