

Data File : VU036557.D
 Acq On : 24 Jan 2020 16:06
 Operator : JC/MD
 Sample : MDL01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 2/14/2020 12:23:54 PM

Quant Time: Jan 24 23:47:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR012420WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 24 23:19:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	6.29	114	147173	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	137166	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	64887	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	39230	4.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.00%
7) Chloroethane-d5	1.93	69	36349	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.20%
11) 1,1-Dichloroethene-d2	2.59	65	16877	5.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.20%
20) 2-Butanone-d5	4.69	46	81581	45.75	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	91.50%
24) Chloroform-d	5.11	84	74069	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.75	65	39697	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.77	84	166273	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.80%
36) 1,2-Dichloropropane-d6	6.73	67	51762	5.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.40%
41) Toluene-d8	7.93	98	160272	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%
43) trans-1,3-Dichloropropene-	8.21	79	19939	4.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.20%
46) 2-Hexanone-d5	8.67	63	102788	55.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.10%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	41253	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
66) 1,2-Dichlorobenzene-d4	12.21	152	58125	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	2753	0.255	ug/L	95
3) Chloromethane	1.54	50	2745	0.241	ug/L	96
5) Vinyl chloride	1.62	62	3012	0.243	ug/L #	78
6) Bromomethane	1.87	94	1846	0.257	ug/L	99
8) Chloroethane	1.95	64	2418m	0.316	ug/L	
9) Trichlorofluoromethane	2.16	101	3344	0.232	ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	2703	0.305	ug/L	89
12) 1,1-Dichloroethene	2.60	96	2431	0.276	ug/L #	1
13) Acetone	2.67	43	5952	4.478	ug/L	93
14) Carbon disulfide	2.82	76	6654	0.240	ug/L	100
15) Methyl Acetate	2.99	43	915	0.269	ug/L #	46
16) Methylene chloride	3.08	84	6111	0.511	ug/L	99
17) Methyl tert-butyl Ether	3.42	73	5413	0.245	ug/L	97
18) trans-1,2-Dichloroethene	3.39	96	2280	0.241	ug/L	95
19) 1,1-Dichloroethane	3.92	63	3833	0.232	ug/L	98
21) 2-Butanone	4.77	43	5862	2.727	ug/L	95
22) cis-1,2-Dichloroethene	4.71	96	2416	0.229	ug/L	87

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Jan 24 23:19:07 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
23) Bromochloromethane	5.02	128	944	0.213	ug/L	89
25) Chloroform	5.13	83	4470	0.272	ug/L	99
27) 1,2-Dichloroethane	5.84	62	2562	0.249	ug/L	96
29) 1,1,1-Trichloroethane	5.36	97	3311	0.242	ug/L	95
30) Cyclohexane	5.42	56	3535	0.226	ug/L	90
31) Carbon tetrachloride	5.57	117	2478	0.213	ug/L	92
33) Benzene	5.82	78	9956	0.258	ug/L	100
34) Trichloroethene	6.58	95	2467	0.242	ug/L	97
35) Methylcyclohexane	6.80	83	4397	0.251	ug/L	93
37) 1,2-Dichloropropane	6.83	63	2333	0.243	ug/L #	88
38) Bromodichloromethane	7.14	83	2703	0.231	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	3375	0.228	ug/L #	74
40) 4-Methyl-2-pentanone	7.84	43	13831	2.566	ug/L #	87
42) Toluene	8.00	91	10926	0.257	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	2812m	0.247	ug/L	
45) 1,1,2-Trichloroethane	8.43	97	1712	0.241	ug/L	94
47) Tetrachloroethene	8.58	164	2046	0.246	ug/L	87
48) 2-Hexanone	8.72	43	11095	2.983	ug/L	97
49) Dibromochloromethane	8.84	129	1895	0.234	ug/L	95
50) 1,2-Dibromoethane	8.95	107	1459	0.211	ug/L #	72
51) Chlorobenzene	9.47	112	7316	0.268	ug/L	97
52) Ethylbenzene	9.60	91	11882	0.256	ug/L	100
53) m,p-Xylene	9.72	106	4301	0.239	ug/L	95
54) o-Xylene	10.13	106	4413	0.250	ug/L	93
55) Styrene	10.14	104	6703	0.232	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.81	83	2323	0.261	ug/L	95
59) Bromoform	10.32	173	913	0.209	ug/L #	89
60) Isopropylbenzene	10.51	105	10928	0.249	ug/L	98
61) 1,2,3-Trichloropropane	10.85	75	1548	0.256	ug/L	96
62) 1,3,5-Trimethylbenzene	11.11	105	9247	0.246	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	9095	0.244	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	5129	0.251	ug/L	97
65) 1,4-Dichlorobenzene	11.86	146	5239	0.256	ug/L	94
67) 1,2-Dichlorobenzene	12.23	146	4995	0.256	ug/L	96
68) 1,2-Dibromo-3-chloropropan	13.02	75	252	0.197	ug/L	83
69) 1,3,5-Trichlorobenzene	13.24	180	3390	0.216	ug/L	96
70) 1,2,4-trichlorobenzene	13.86	180	1878	0.164	ug/L	95
71) Naphthalene	14.10	128	2335	0.143	ug/L #	89
72) 1,2,3-Trichlorobenzene	14.35	180	2069	0.200	ug/L	92

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

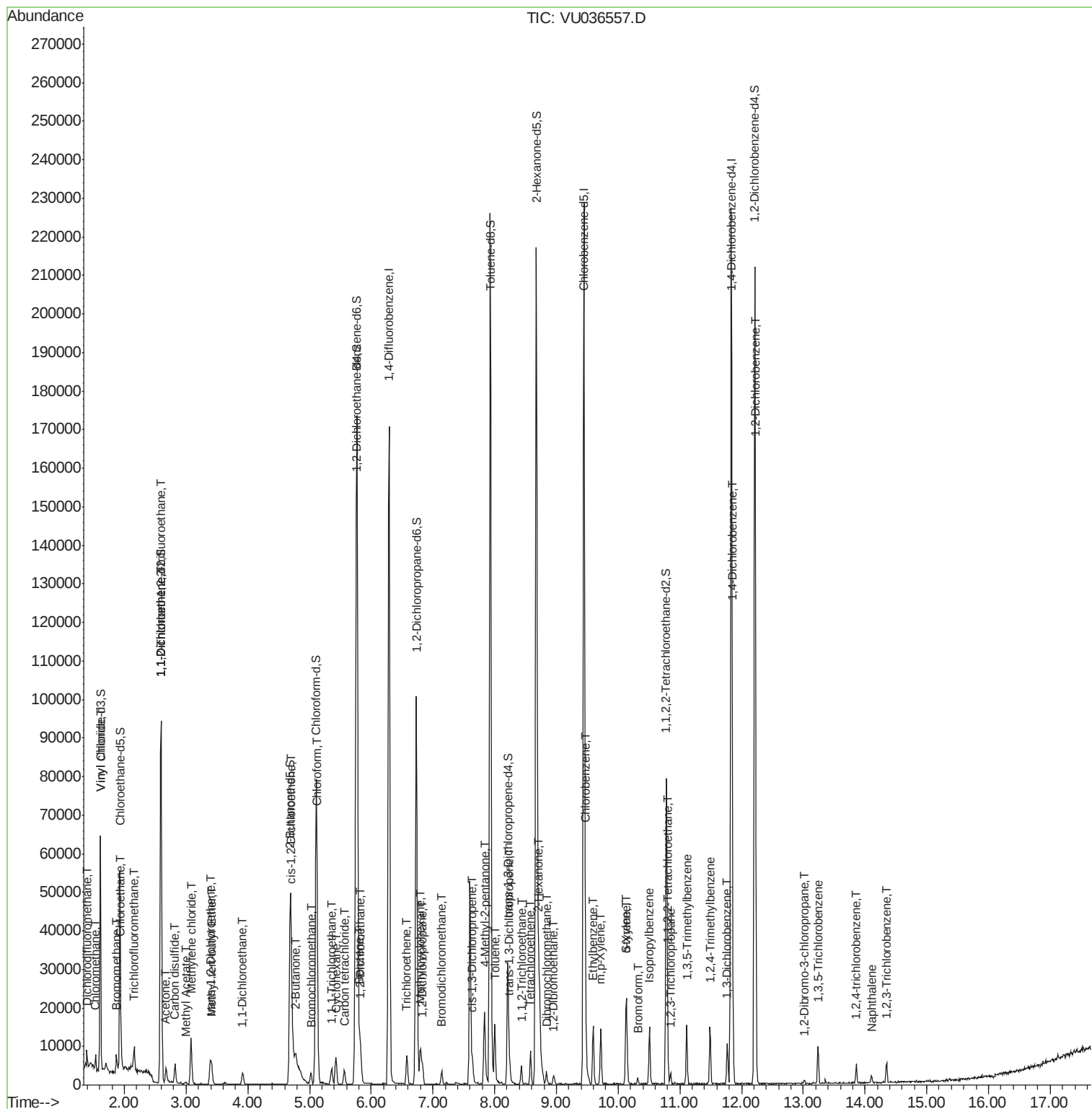
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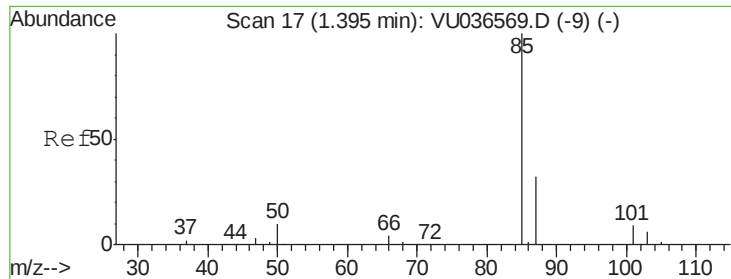
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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.255 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 85 Resp: 2753

Ion Ratio Lower Upper

85 100

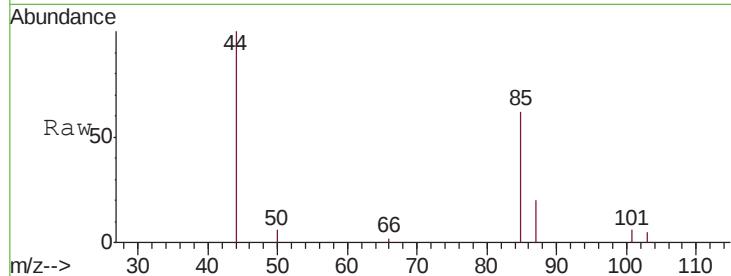
87 29.9 26.0 39.0

Manual Integrations

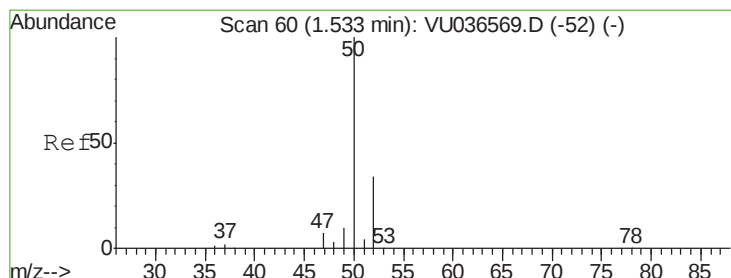
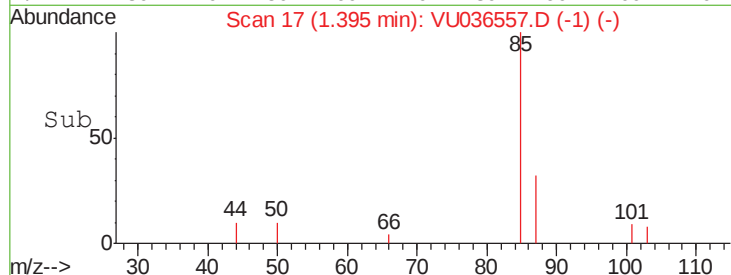
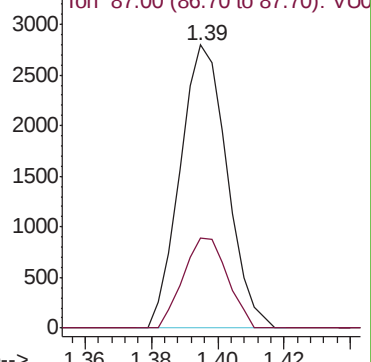
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Abundance Ion 85.00 (84.70 to 85.70): VU036557.D (-1) (-)



#3

Chloromethane

Concen: 0.241 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036557.D

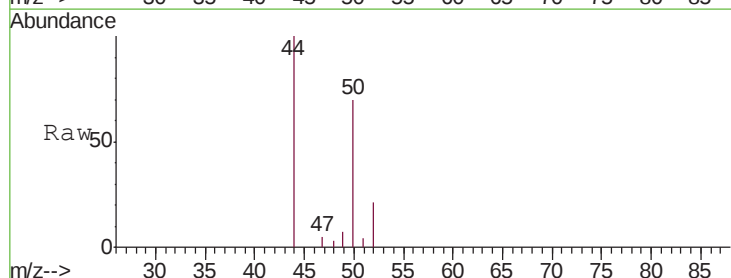
Acq: 24 Jan 2020 16:06

Tgt Ion: 50 Resp: 2745

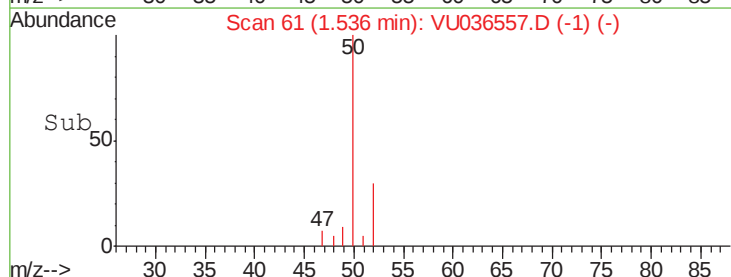
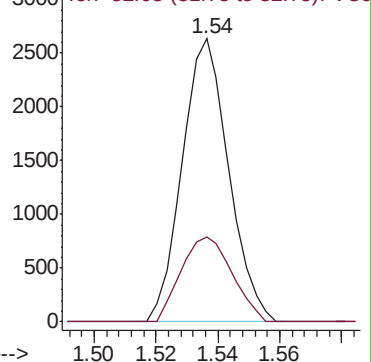
Ion Ratio Lower Upper

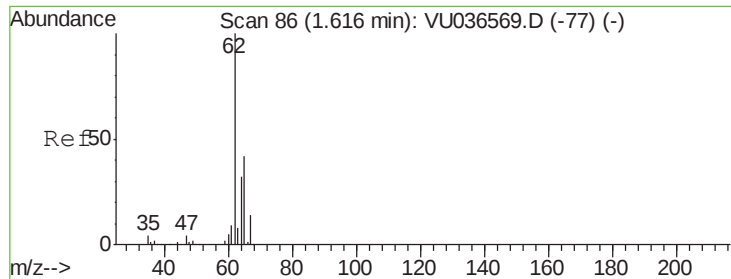
50 100

52 30.2 22.7 42.3



Abundance Ion 50.05 (49.75 to 50.75): VU036557.D (-1) (-)





#5

Vinyl chloride

Concen: 0.243 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tgt Ion: 62 Resp: 3012

Ion Ratio Lower Upper

62 100

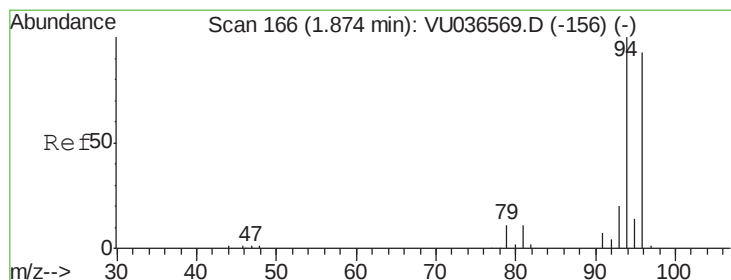
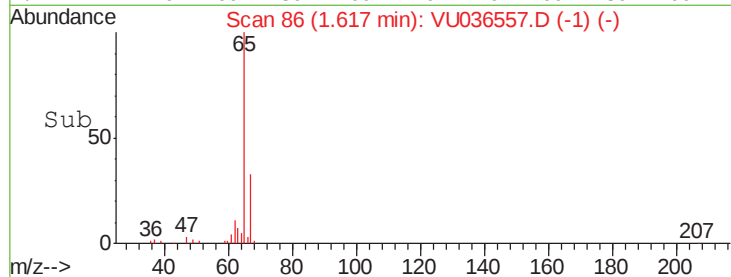
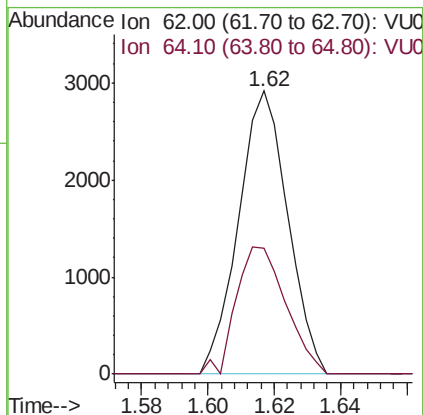
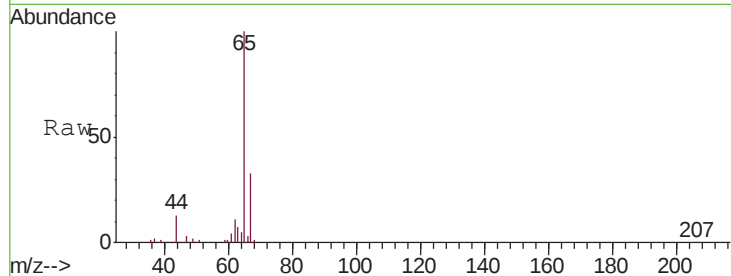
64 44.6 22.6 42.0#

Manual Integrations

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#6

Bromomethane

Concen: 0.257 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036557.D

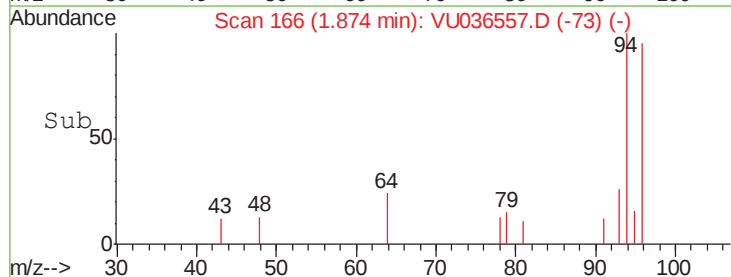
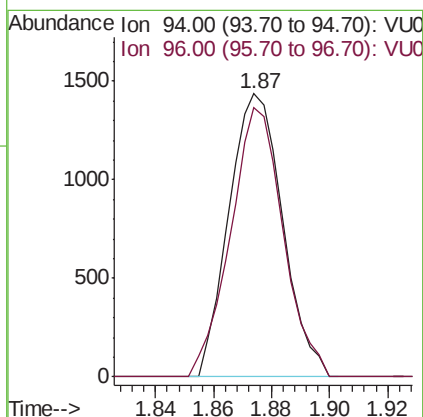
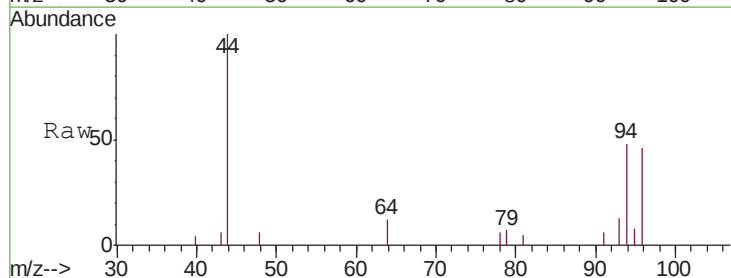
Acq: 24 Jan 2020 16:06

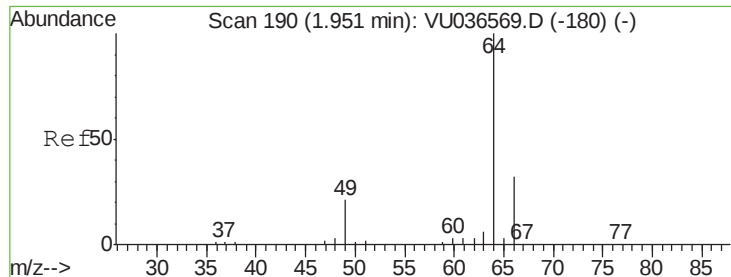
Tgt Ion: 94 Resp: 1846

Ion Ratio Lower Upper

94 100

96 95.2 67.6 125.6





#8

Chloroethane

Concen: 0.316 ug/L m

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 64 Resp: 2418

Ion Ratio Lower Upper

64 100

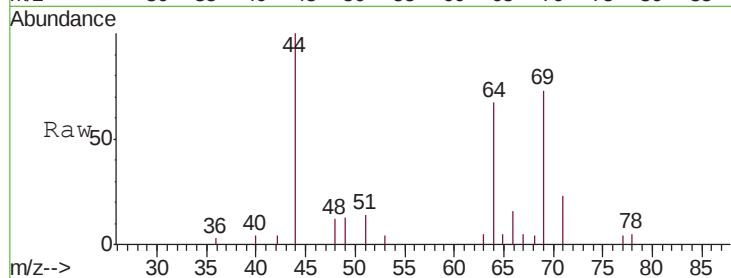
66 23.3 24.1 44.8#

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VU036569.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU036569.D (-180) (-)

1.95

2000

1500

1000

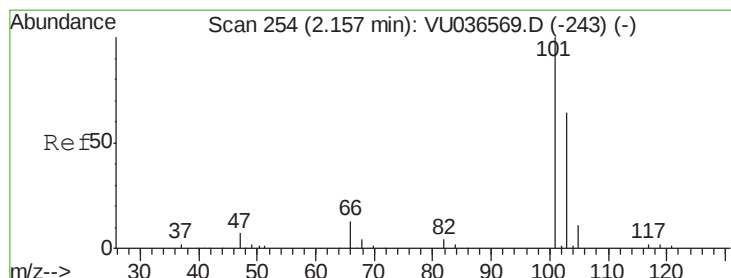
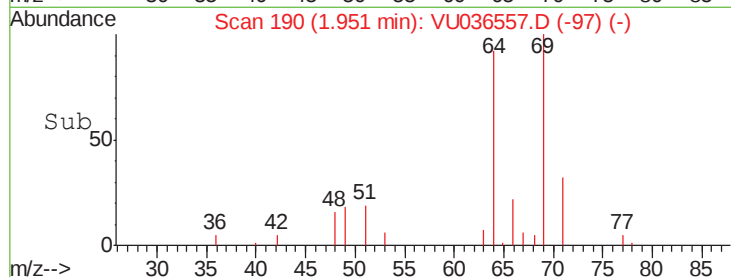
500

0

1.90

1.95

Time-->



#9

Trichlorofluoromethane

Concen: 0.232 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036557.D

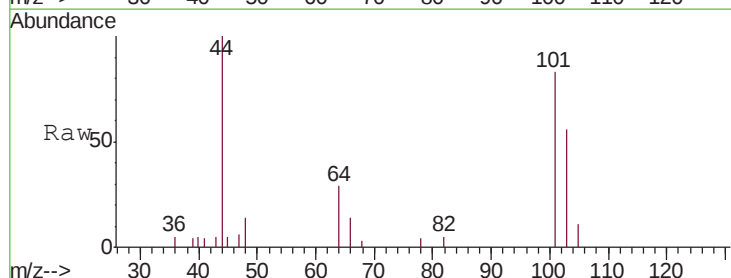
Acq: 24 Jan 2020 16:06

Tgt Ion: 101 Resp: 3344

Ion Ratio Lower Upper

101 100

103 70.8 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU036569.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU036569.D (-243) (-)

2.16

2500

2000

1500

1000

500

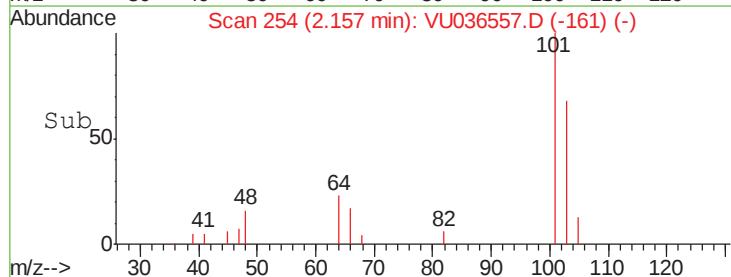
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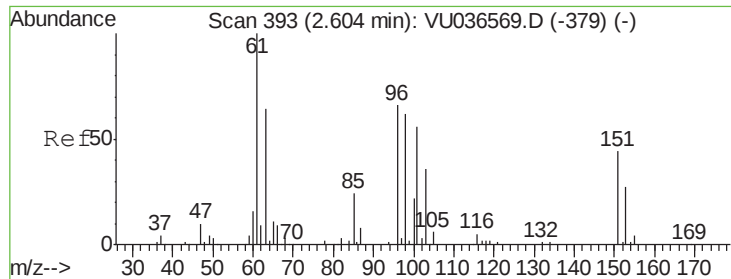
2.10

2.15

2.20

Time-->





#10

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

Concen: 0.305 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

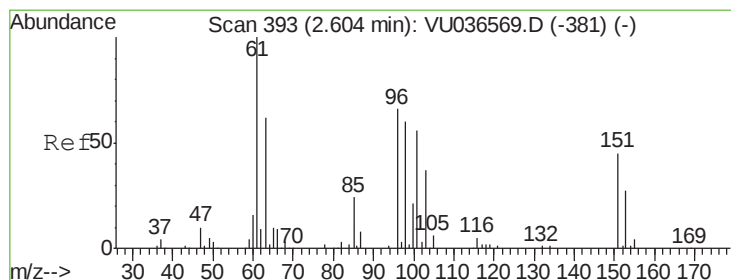
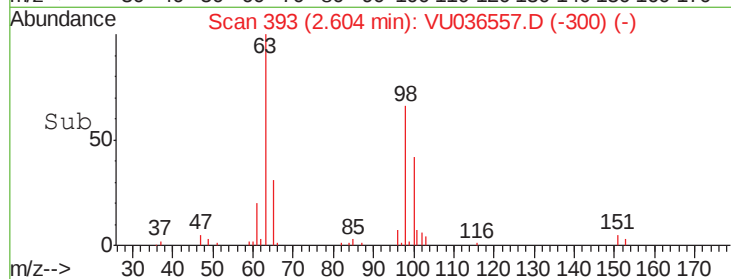
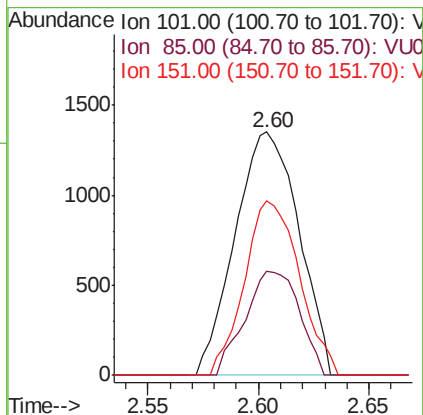
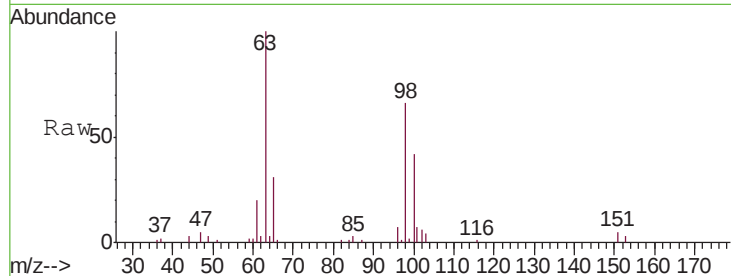
ClientSampleId :

MDL01

Tgt Ion:	101	Resp:	2703
Ion	Ratio	Lower	Upper
101	100		
85	36.4	32.2	48.4
151	62.0	59.2	88.8

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#12

1,1-Dichloroethene

Concen: 0.276 ug/L

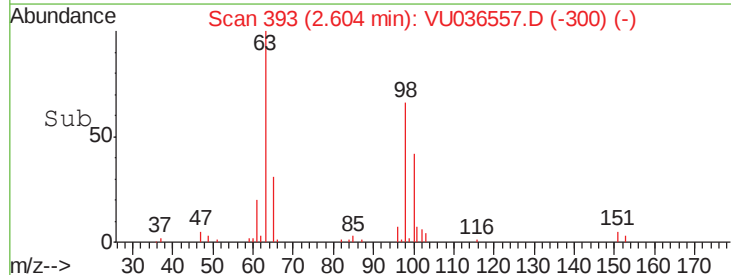
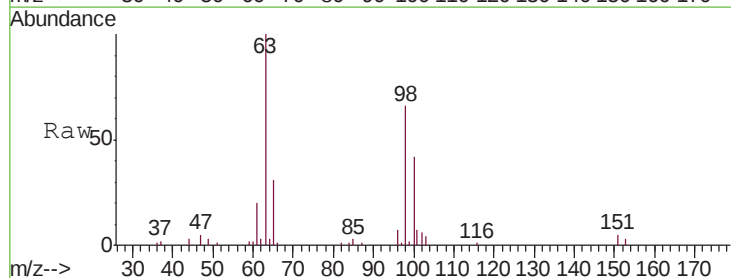
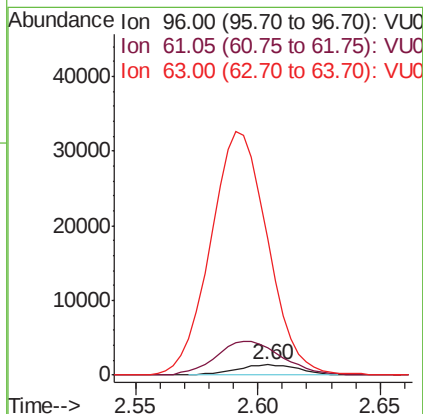
RT: 2.60 min Scan# 393

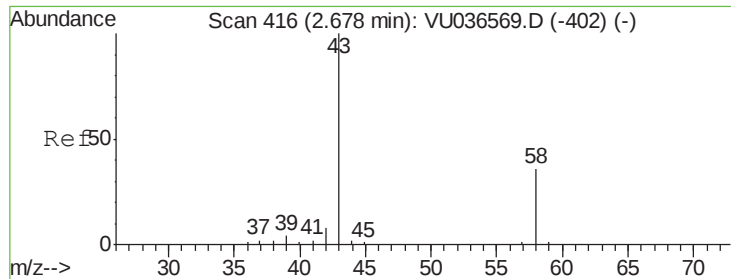
Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Tgt Ion:	96	Resp:	2431
Ion	Ratio	Lower	Upper
96	100		
61	265.6	108.2	201.0#
63	1344.5	72.0	133.8#





#13

Acetone

Concen: 4.478 ug/L

RT: 2.67 min Scan# 415

Delta R.T. -0.01 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tgt Ion: 43 Resp: 5952

Ion Ratio Lower Upper

43 100

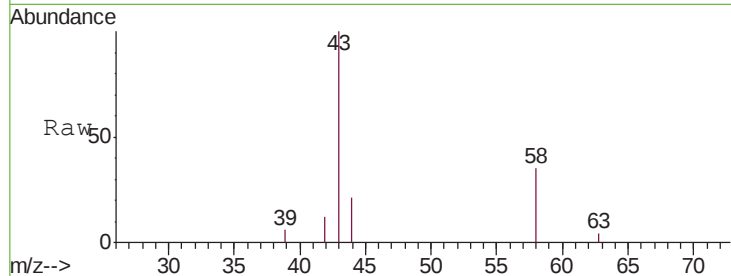
58 32.5 0.0 74.0

Manual Integrations

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Abundance Ion 43.05 (42.75 to 43.75): VU036557.D (-325) (-)

Ion 58.05 (57.75 to 58.75): VU036557.D (-325) (-)

2500

2000

1500

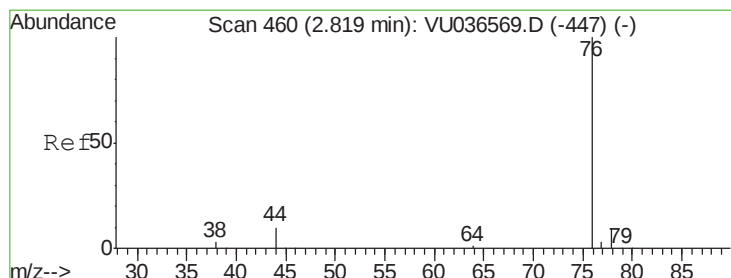
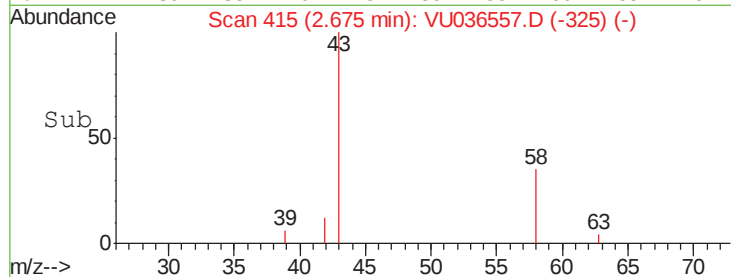
1000

500

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 0.240 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036557.D

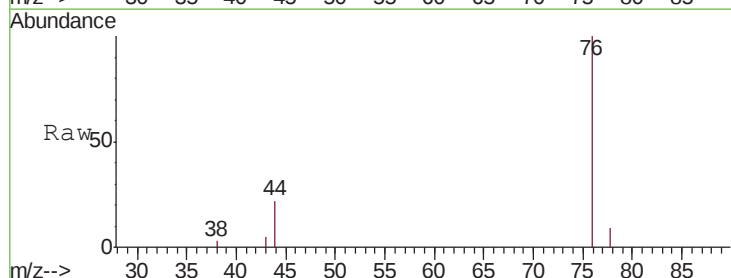
Acq: 24 Jan 2020 16:06

Tgt Ion: 76 Resp: 6654

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU036557.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU036557.D (-367) (-)

4000

3000

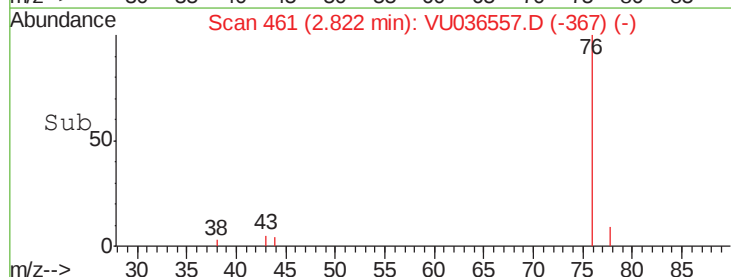
2000

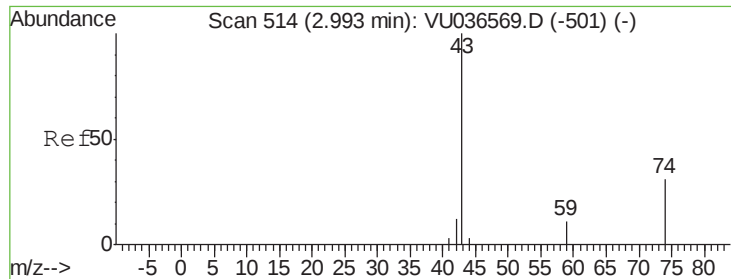
1000

0

Time-->

2.75 2.80 2.85





#15

Methyl Acetate

Concen: 0.269 ug/L

RT: 2.99 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tgt Ion: 43 Resp: 915

Ion Ratio Lower Upper

43 100

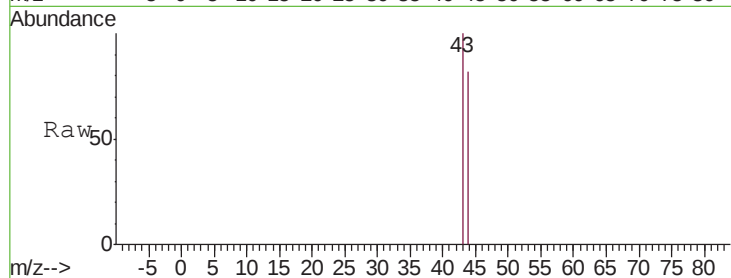
74 0.0 22.7 34.1#

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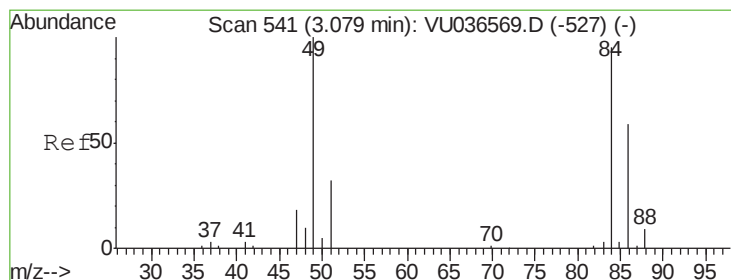
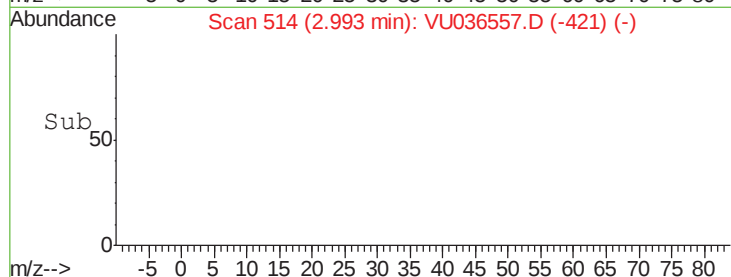
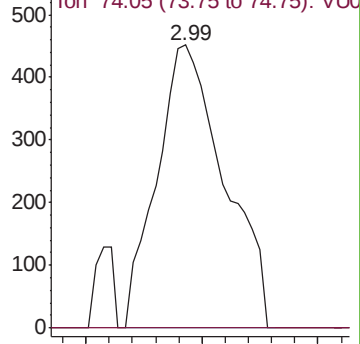
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Abundance Ion 43.05 (42.75 to 43.75): VU036569.D (-501) (-)



#16

Methylene chloride

Concen: 0.511 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

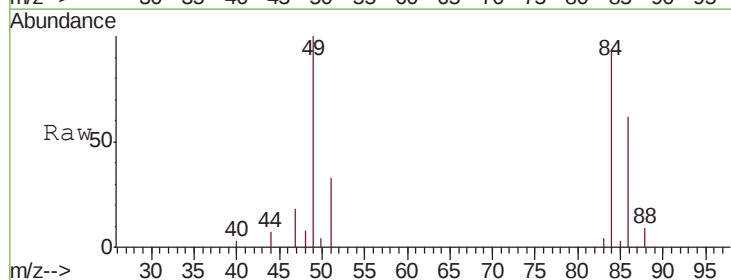
Tgt Ion: 84 Resp: 6111

Ion Ratio Lower Upper

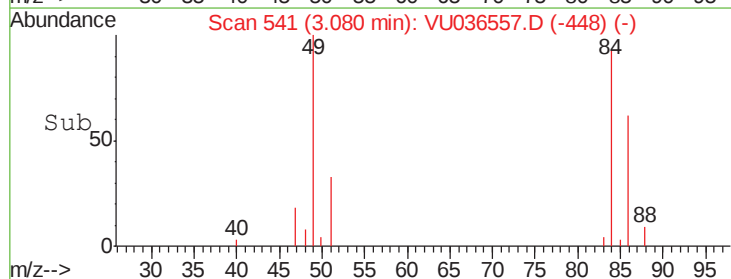
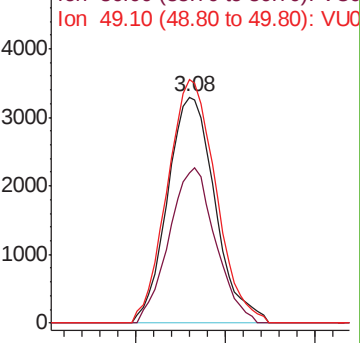
84 100

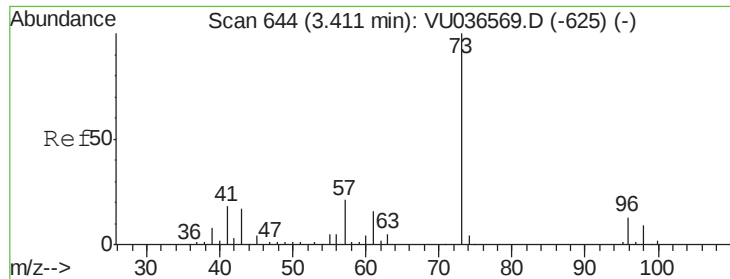
86 66.2 44.8 83.2

49 107.6 74.8 139.0



Abundance Ion 84.05 (83.75 to 84.75): VU036569.D (-527) (-)





#17

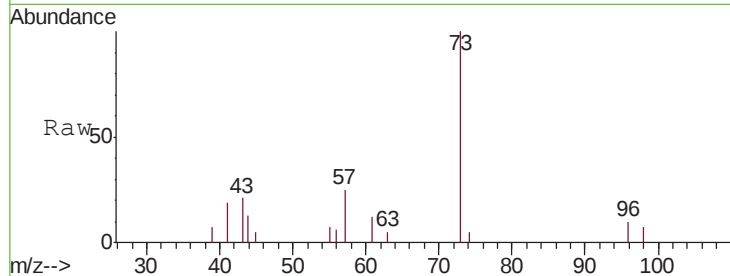
Methyl tert-butyl Ether
Concen: 0.245 ug/L
RT: 3.42 min Scan# 646
Delta R.T. 0.01 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampled :
MDL01

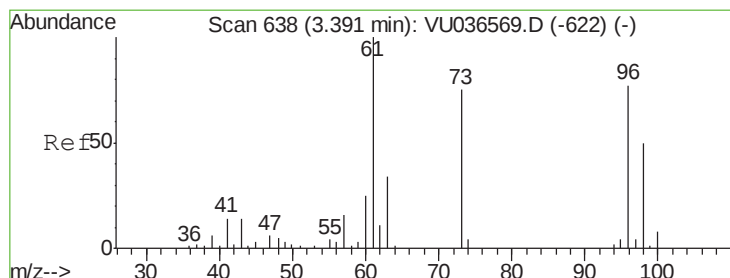
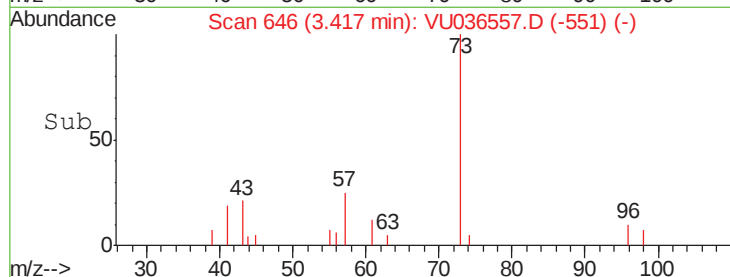
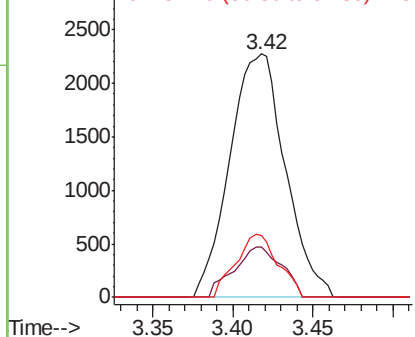
Tgt Ion: 73 Resp: 5413
Ion Ratio Lower Upper
73 100
43 17.7 14.6 21.8
57 19.5 17.0 25.6

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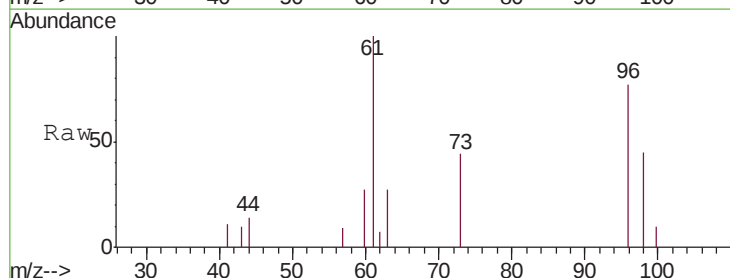
Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0



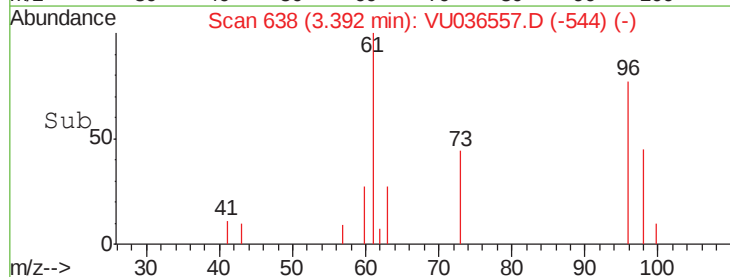
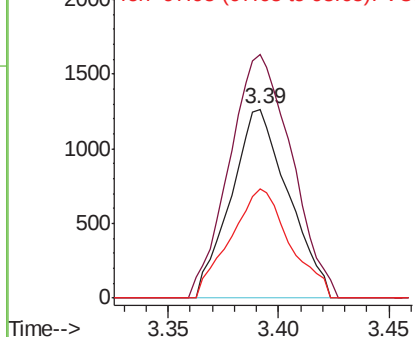
#18

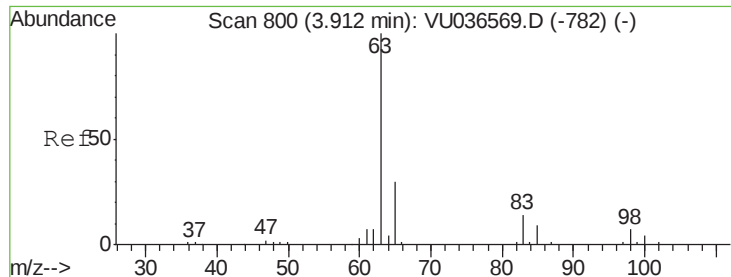
trans-1,2-Dichloroethene
Concen: 0.241 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 96 Resp: 2280
Ion Ratio Lower Upper
96 100
61 129.1 93.1 172.9
98 57.9 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





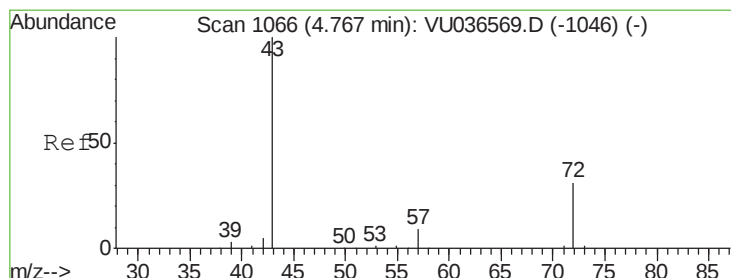
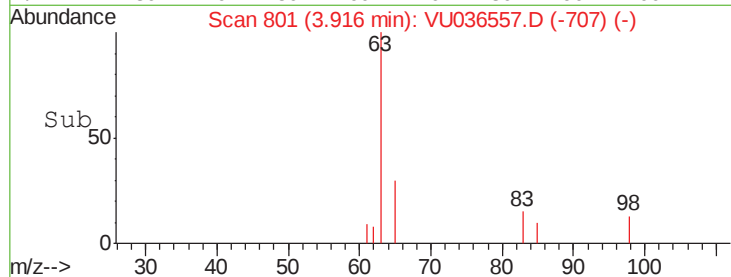
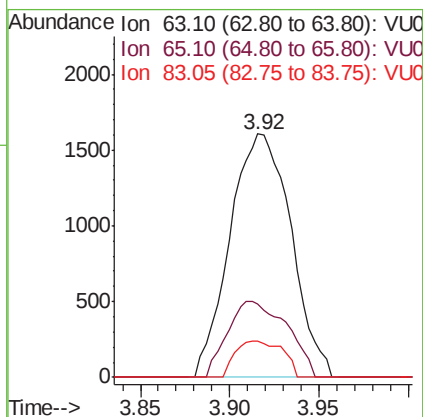
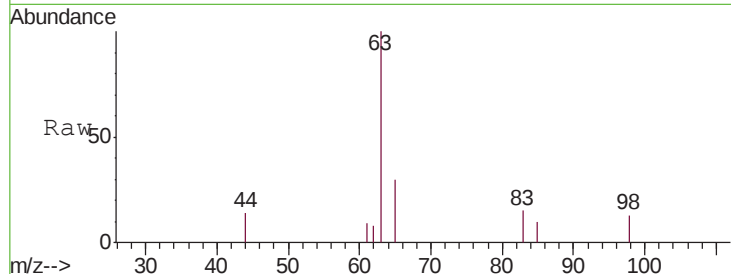
#19
1,1-Dichloroethane
Concen: 0.232 ug/L
RT: 3.92 min Scan# 801
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tgt Ion: 63 Resp: 3833
Ion Ratio Lower Upper
63 100
65 30.4 21.8 40.6
83 15.1 9.8 18.2

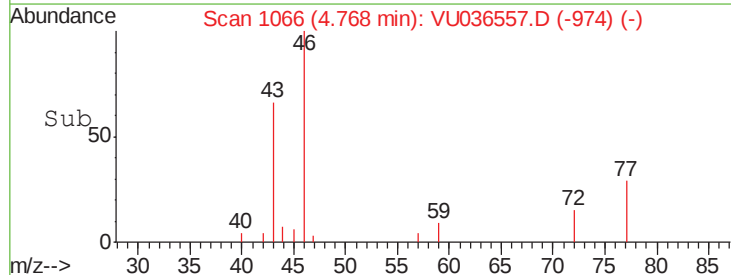
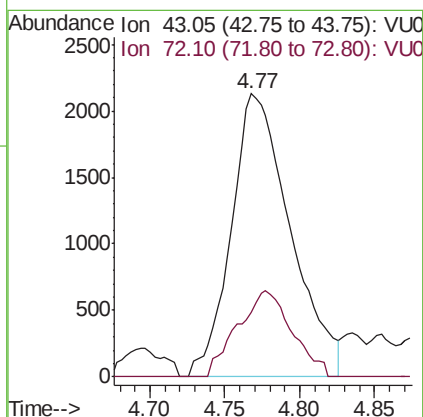
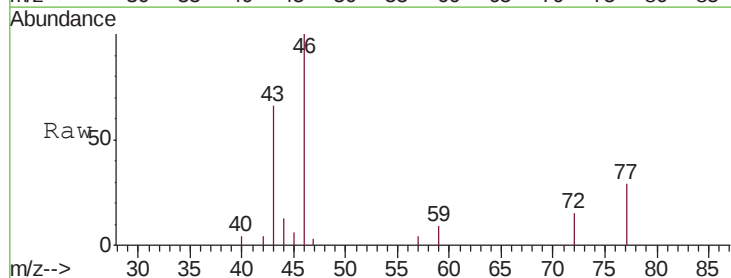
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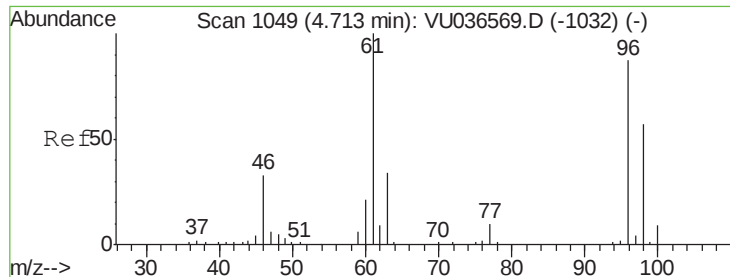
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#21
2-Butanone
Concen: 2.727 ug/L
RT: 4.77 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 43 Resp: 5862
Ion Ratio Lower Upper
43 100
72 28.0 15.4 46.4





#22

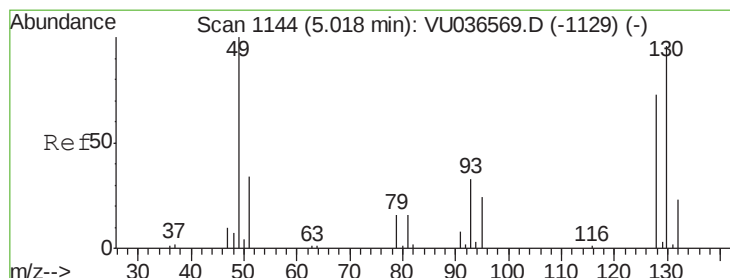
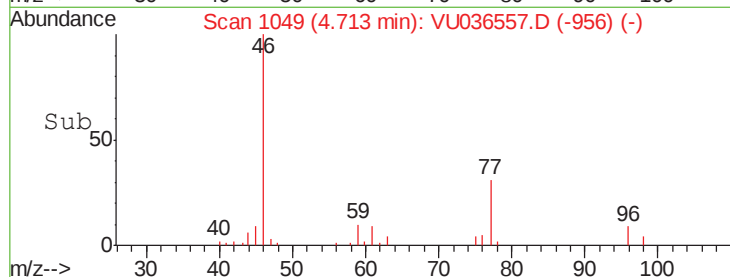
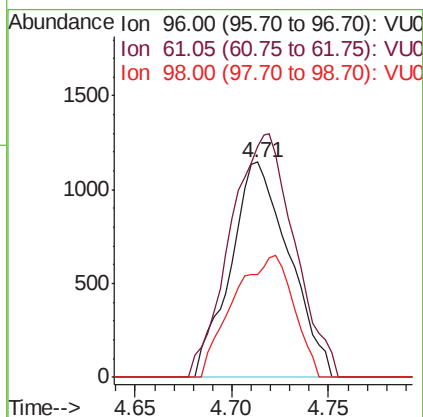
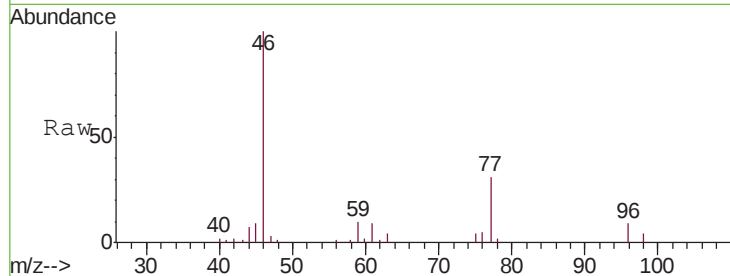
cis-1,2-Dichloroethene
Concen: 0.229 ug/L
RT: 4.71 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion: 96 Resp: 2416
Ion Ratio Lower Upper
96 100
61 107.2 83.0 154.1
98 48.0 43.8 81.3

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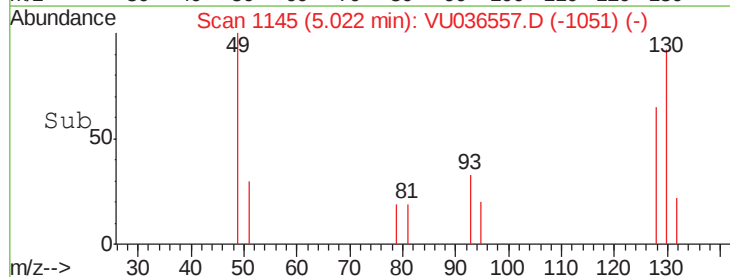
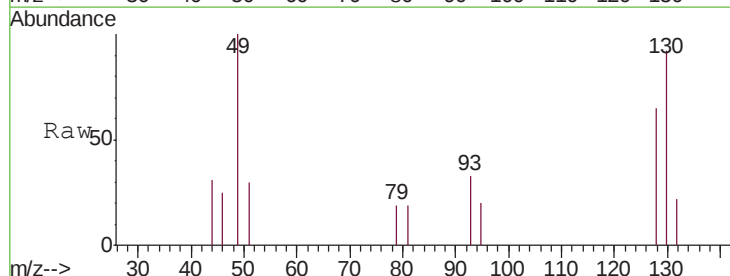
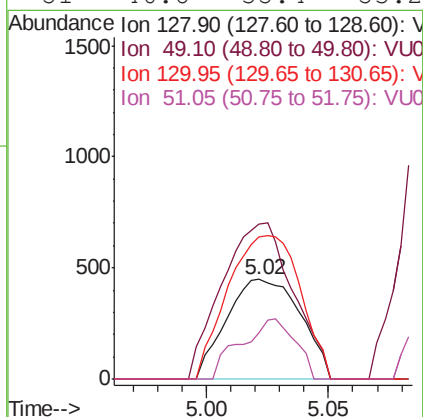
MMDadoda
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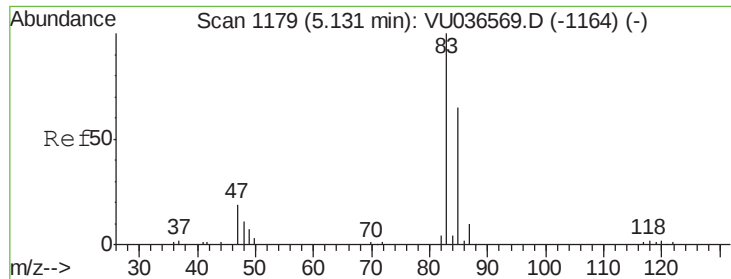


#23

Bromochloromethane
Concen: 0.213 ug/L
RT: 5.02 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 128 Resp: 944
Ion Ratio Lower Upper
128 100
49 154.8 98.6 183.2
130 142.3 89.1 165.5
51 46.8 35.4 53.2





#25

Chloroform

Concen: 0.272 ug/L

RT: 5.13 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 83 Resp: 4470

Ion Ratio Lower Upper

83 100

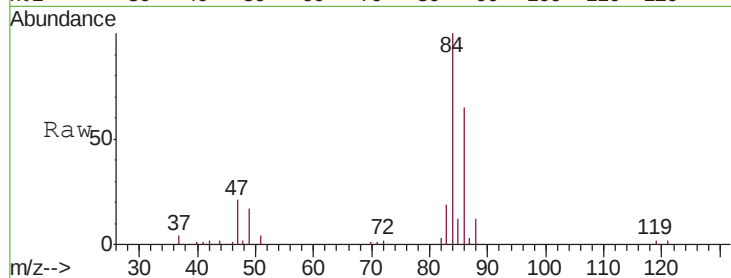
85 64.4 45.7 84.9

Manual Integrations

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Abundance Ion 83.05 (82.75 to 83.75): VU036569.D (-1164) (-)

Ion 85.00 (84.70 to 85.70): VU036557.D (-1086) (-)

2500

2000

1500

1000

500

0

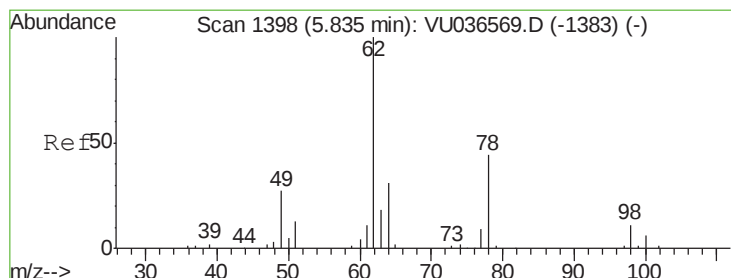
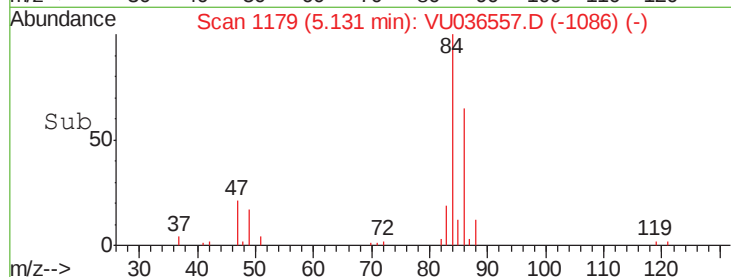
5.10

5.13

5.15

5.20

Time-->



#27

1,2-Dichloroethane

Concen: 0.249 ug/L

RT: 5.84 min Scan# 1398

Delta R.T. 0.00 min

Lab File: VU036557.D

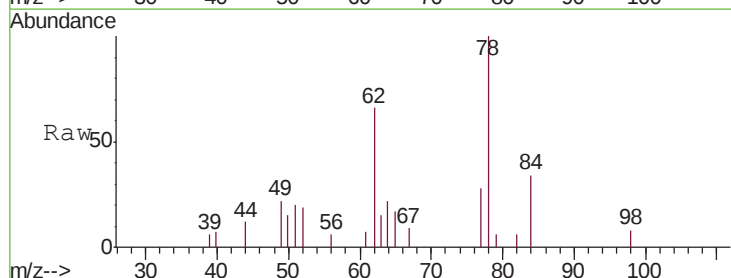
Acq: 24 Jan 2020 16:06

Tgt Ion: 62 Resp: 2562

Ion Ratio Lower Upper

62 100

98 12.1 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VU036569.D (-1383) (-)

Ion 98.05 (97.75 to 98.75): VU036557.D (-1305) (-)

1000

500

0

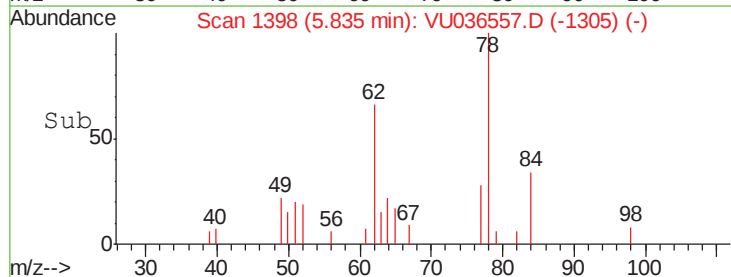
5.80

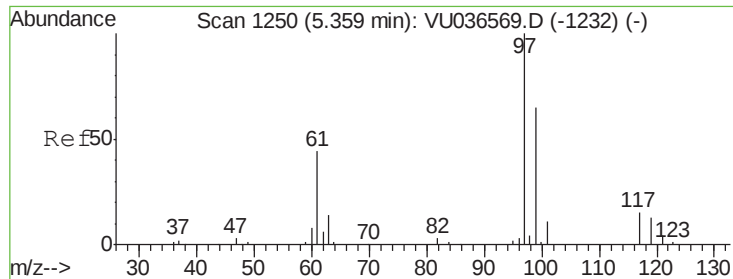
5.84

5.85

5.90

Time-->





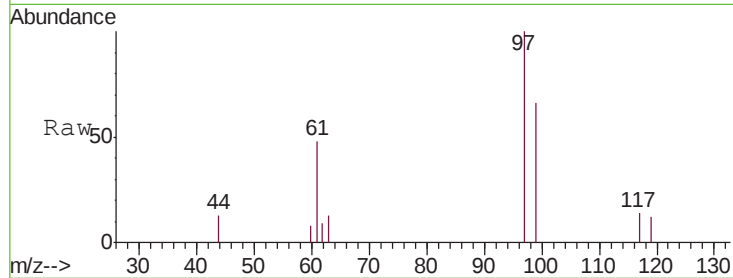
#29
1,1,1-Trichloroethane
Concen: 0.242 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampled :
MDL01

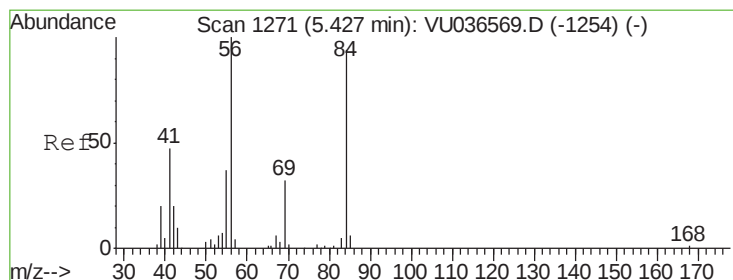
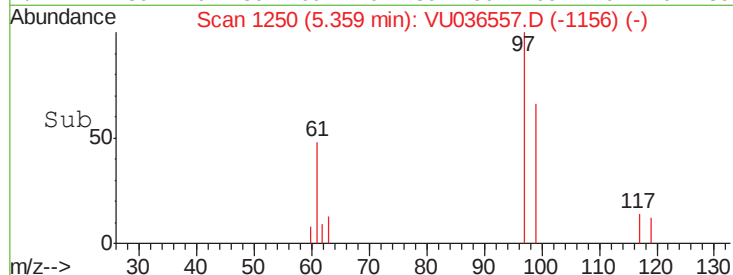
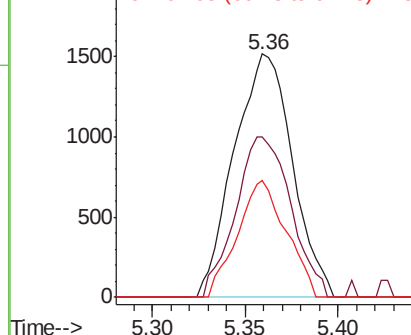
Tgt Ion: 97 Resp: 3311
Ion Ratio Lower Upper
97 100
99 62.5 52.0 78.0
61 40.0 35.6 53.4

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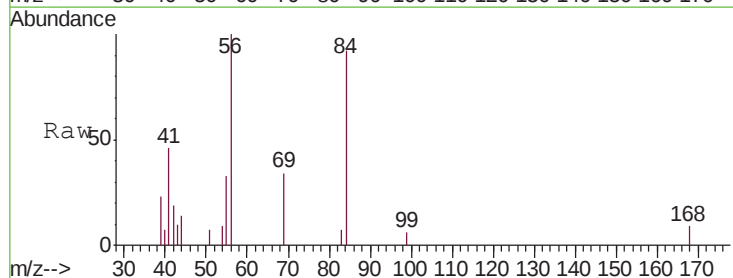


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

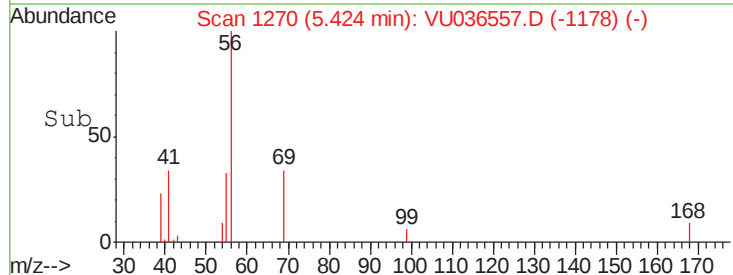
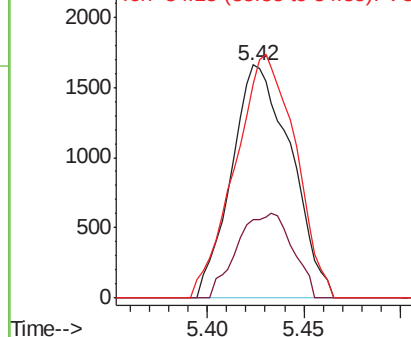


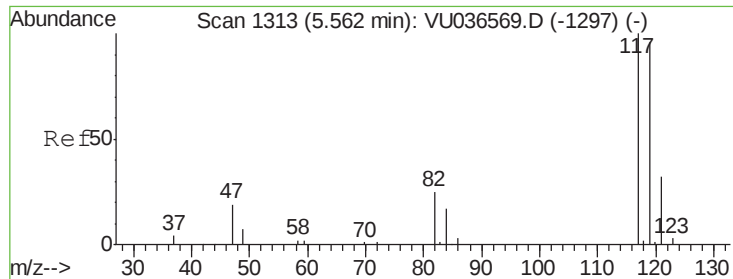
#30
Cyclohexane
Concen: 0.226 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 56 Resp: 3535
Ion Ratio Lower Upper
56 100
69 33.9 25.7 38.5
84 106.3 75.3 112.9



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

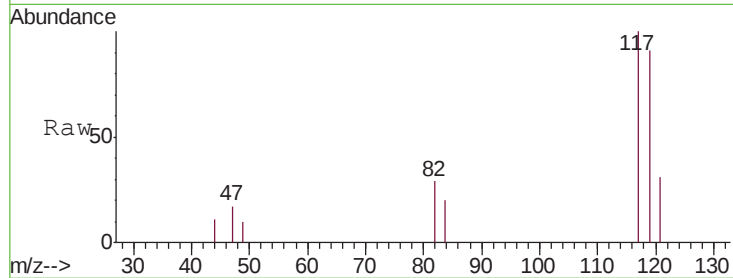
Carbon tetrachloride
Concen: 0.213 ug/L
RT: 5.57 min Scan# 1314
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

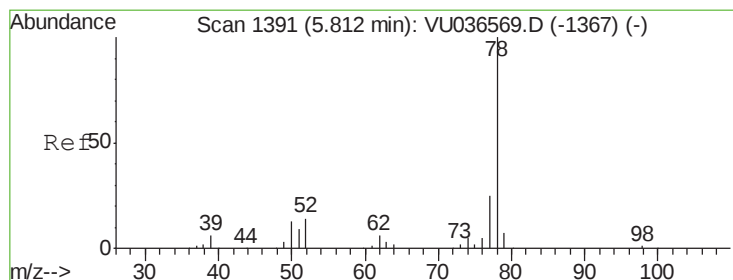
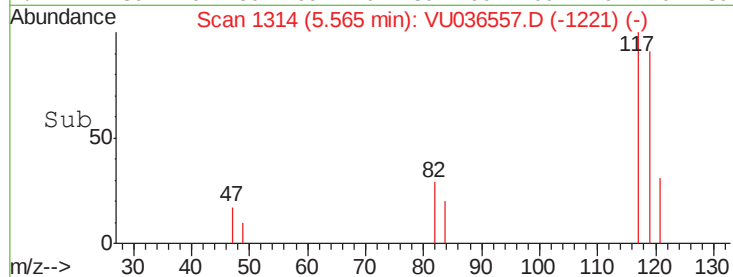
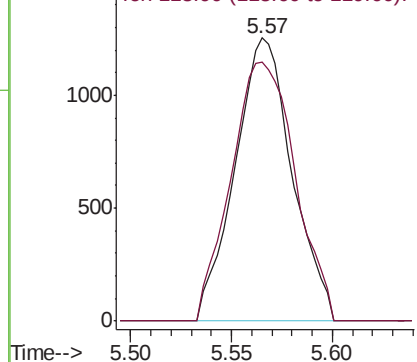
Tgt Ion:117 Resp: 2478
Ion Ratio Lower Upper
117 100
119 102.7 76.3 114.5

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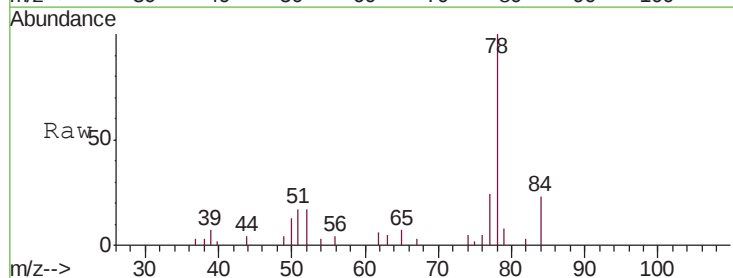
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V



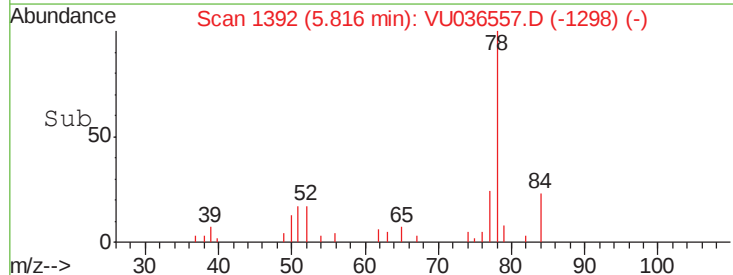
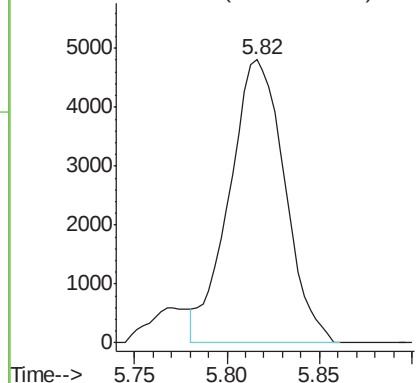
#33

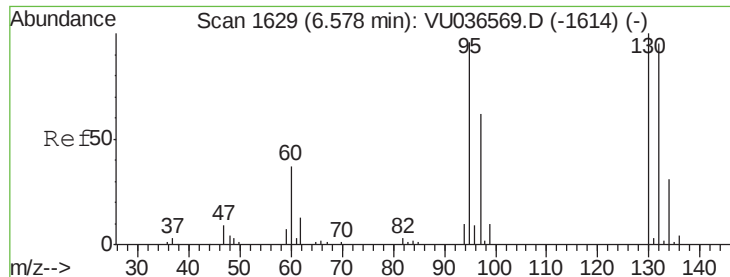
Benzene
Concen: 0.258 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 78 Resp: 9956



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.242 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 95 Resp: 2467

Ion Ratio Lower Upper

95 100

97 58.5 45.6 84.8

132 97.5 67.7 125.7

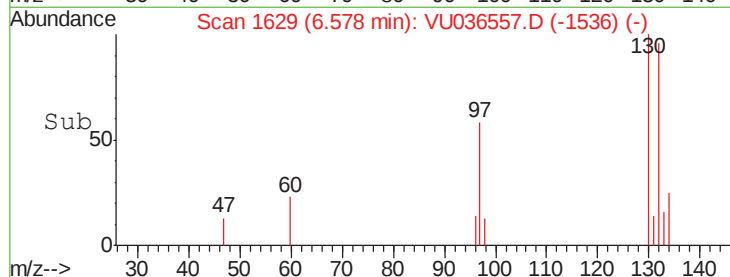
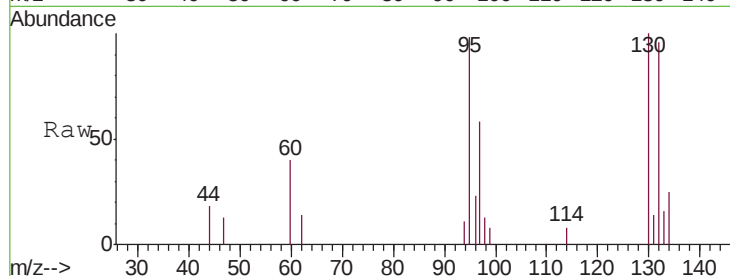
130 101.6 72.2 134.2

Manual Integrations

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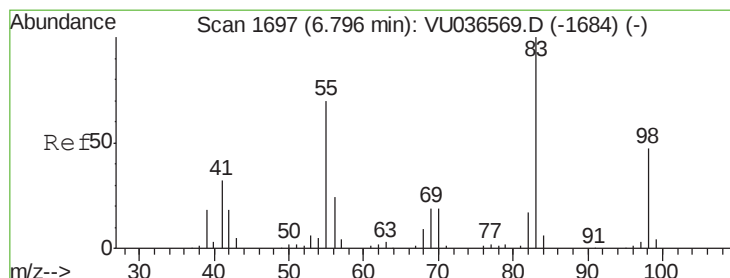
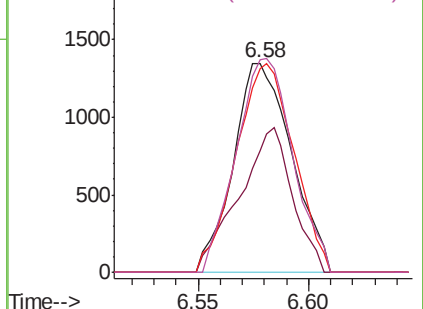


Abundance Ion 95.00 (94.70 to 95.70): VU036557.D (-1536) (-)

Ion 96.95 (96.65 to 97.65): VU036557.D (-1536) (-)

Ion 131.95 (131.65 to 132.65): VU036557.D (-1536) (-)

Ion 129.95 (129.65 to 130.65): VU036557.D (-1536) (-)



#35

Methylcyclohexane

Concen: 0.251 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.01 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

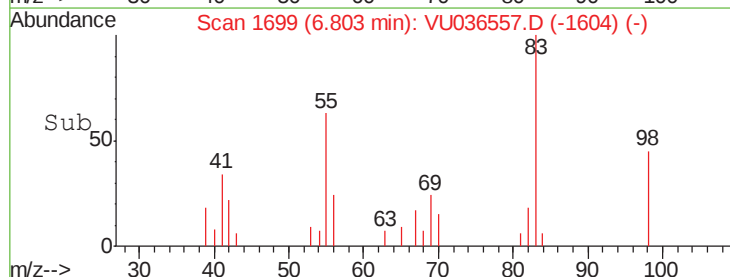
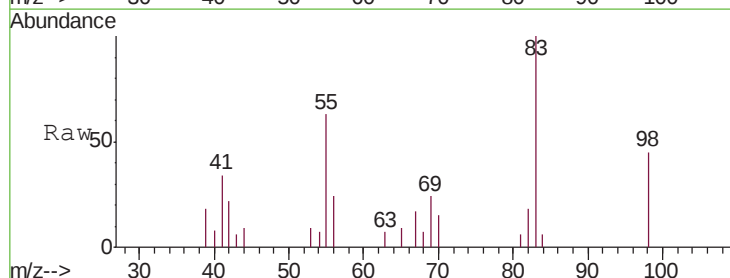
Tgt Ion: 83 Resp: 4397

Ion Ratio Lower Upper

83 100

55 62.2 56.9 85.3

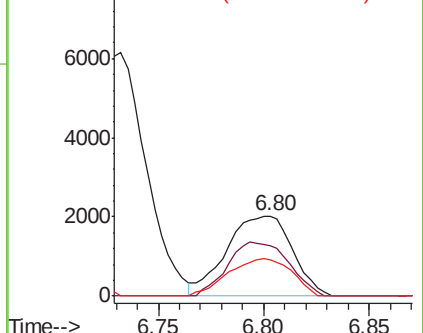
98 44.8 36.9 55.3

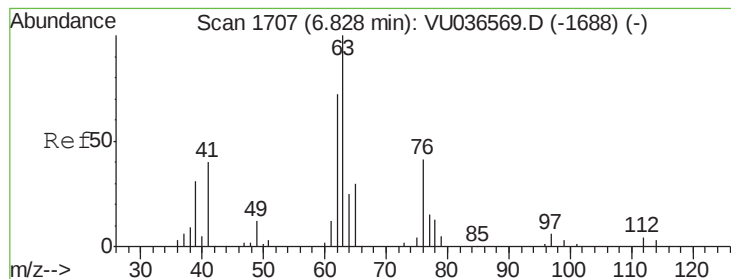


Abundance Ion 83.15 (82.85 to 83.85): VU036557.D (-1604) (-)

Ion 55.10 (54.80 to 55.80): VU036557.D (-1604) (-)

Ion 98.15 (97.85 to 98.85): VU036557.D (-1604) (-)





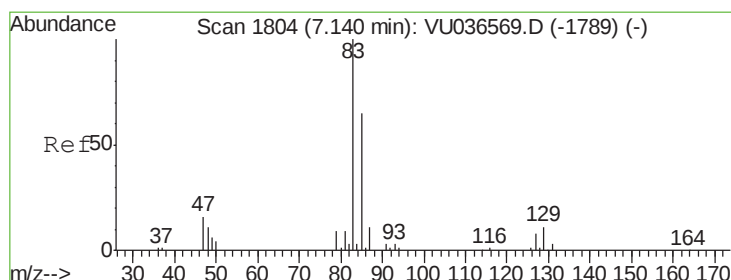
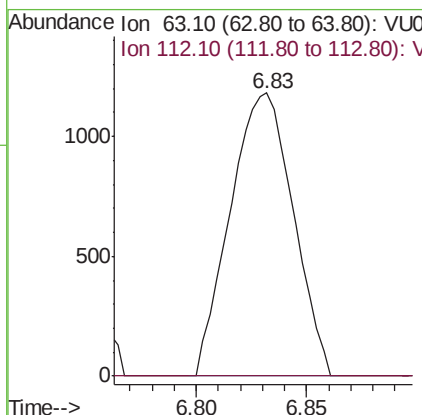
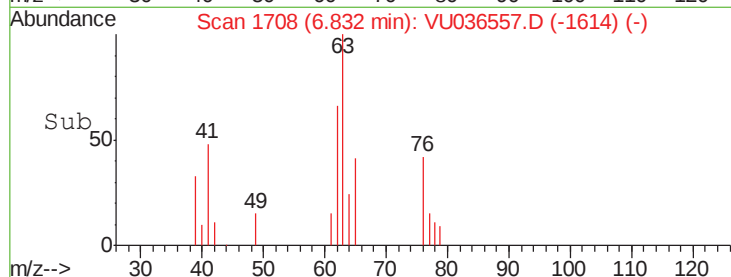
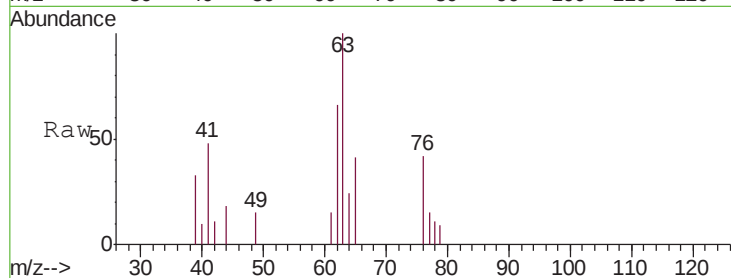
#37
1,2-Dichloropropane
Concen: 0.243 ug/L
RT: 6.83 min Scan# 1708
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tgt Ion: 63 Resp: 2333
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#

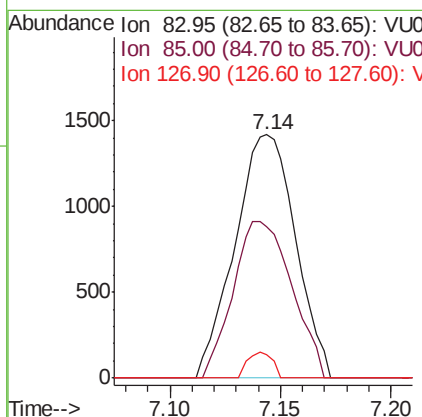
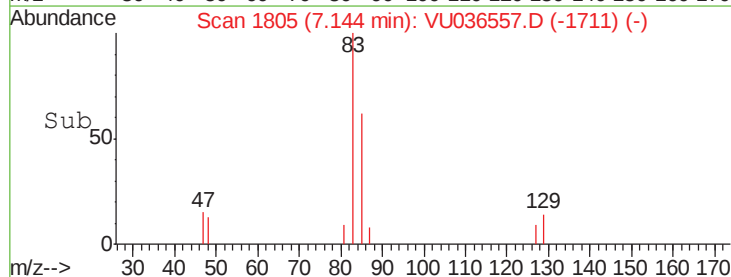
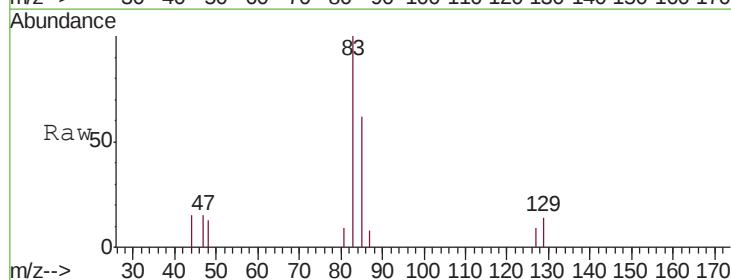
Manual Integrations
APPROVED

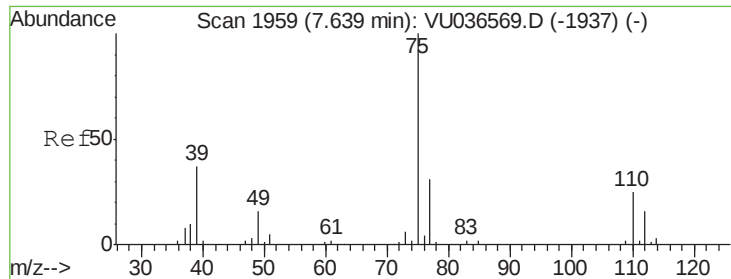
MMDadoda
2/14/2020 12:23:54 PM



#38
Bromodichloromethane
Concen: 0.231 ug/L
RT: 7.14 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 83 Resp: 2703
Ion Ratio Lower Upper
83 100
85 62.4 44.7 82.9
127 9.4 7.2 10.8





#39

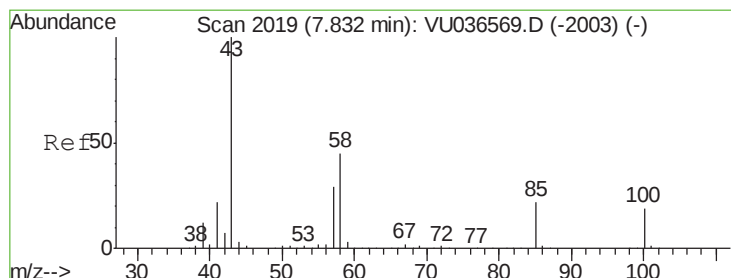
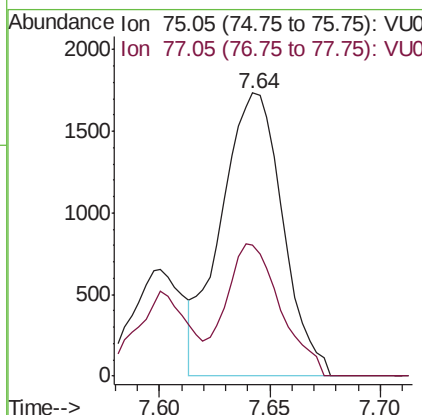
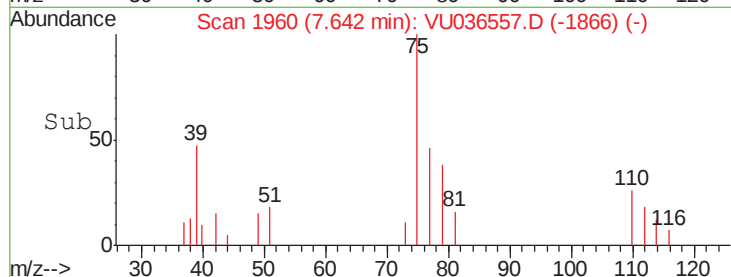
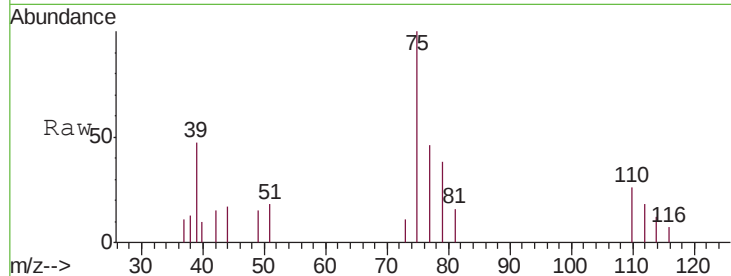
cis-1,3-Dichloropropene
Concen: 0.228 ug/L
RT: 7.64 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion: 75 Resp: 3375
Ion Ratio Lower Upper
75 100
77 46.5 22.3 41.5#

Manual Integrations
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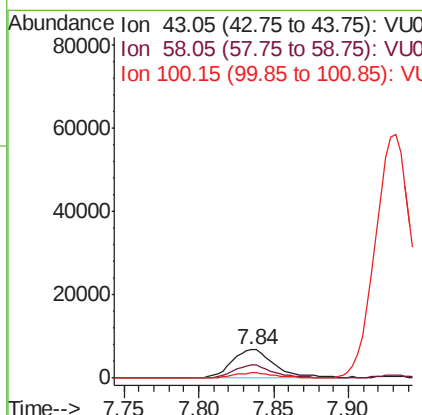
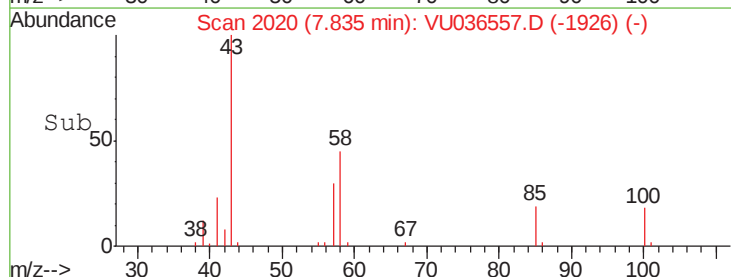
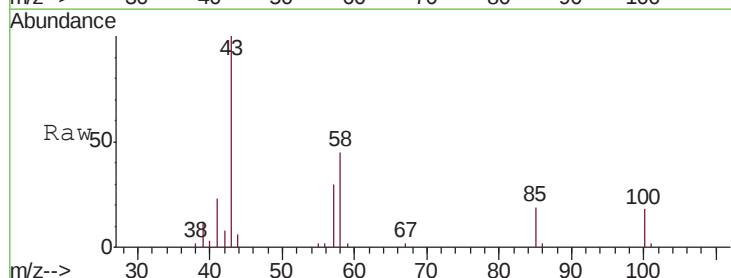
MMDadoda
2/14/2020 12:23:54 PM

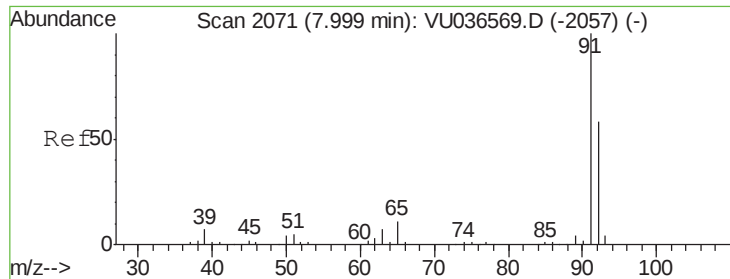


#40

4-Methyl-2-pentanone
Concen: 2.566 ug/L
RT: 7.84 min Scan# 2020
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 43 Resp: 13831
Ion Ratio Lower Upper
43 100
58 43.6 35.6 53.4
100 0.0 14.9 22.3#





#42

Toluene

Concen: 0.257 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tgt Ion: 91 Resp: 10926

Ion Ratio Lower Upper

91 100

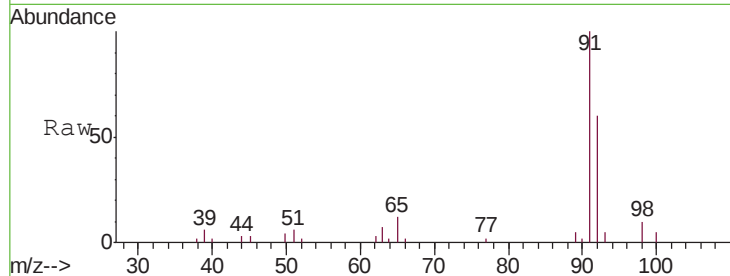
92 60.0 40.6 75.4

Manual Integrations

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Abundance Ion 91.15 (90.85 to 91.85): VU036569.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036569.D (-2057) (-)

8.00

6000

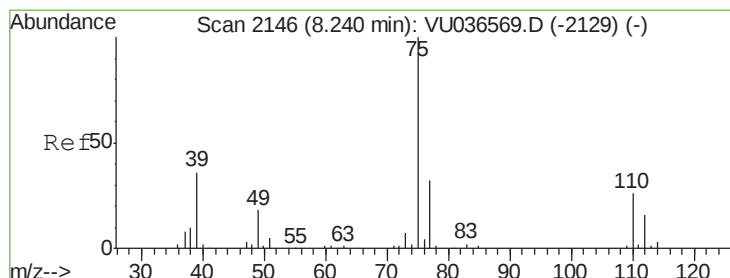
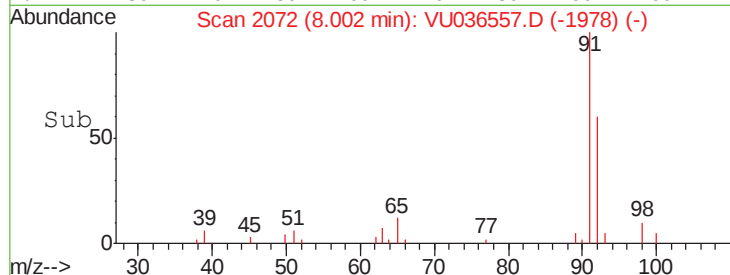
4000

2000

0

7.95 8.00 8.05

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.247 ug/L m

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU036557.D

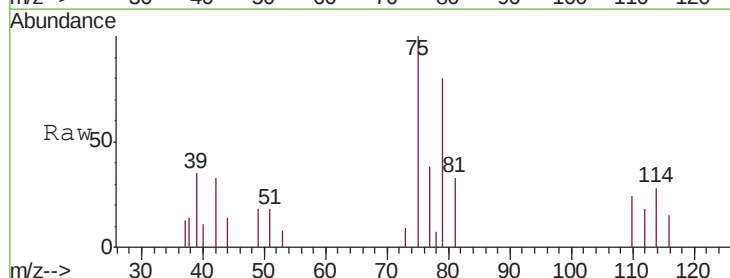
Acq: 24 Jan 2020 16:06

Tgt Ion: 75 Resp: 2812

Ion Ratio Lower Upper

75 100

77 38.4 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VU036569.D (-2129) (-)

Ion 77.05 (76.75 to 77.75): VU036569.D (-2129) (-)

8.24

1500

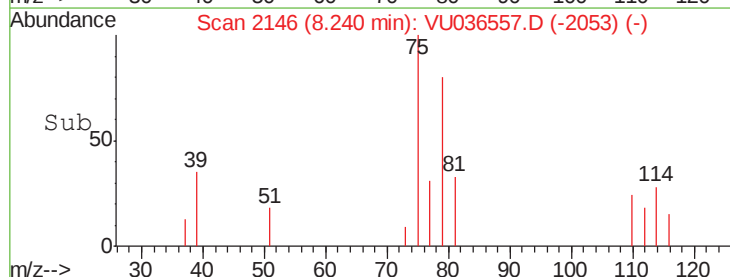
1000

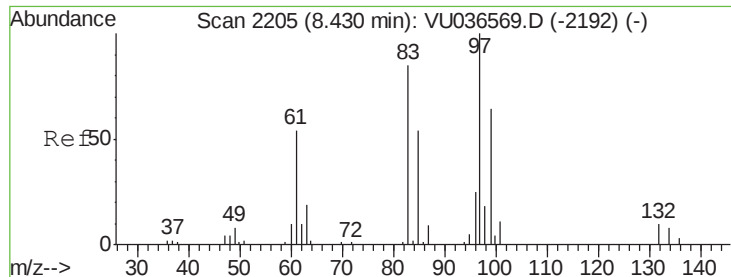
500

0

8.20 8.25 8.30

Time-->





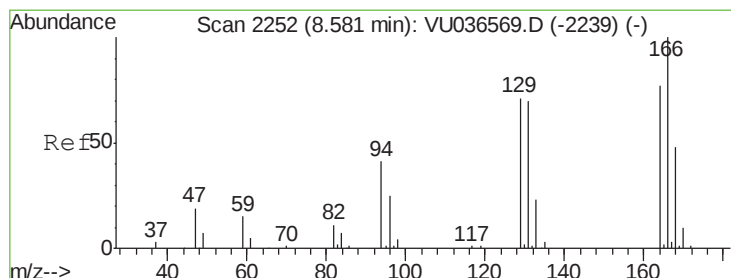
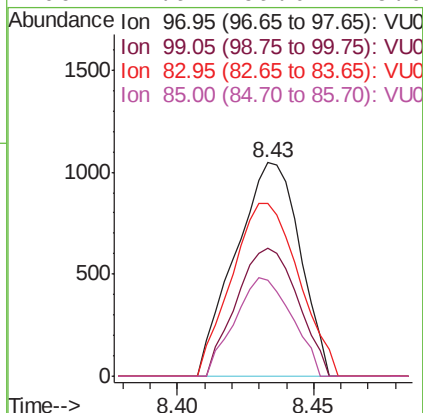
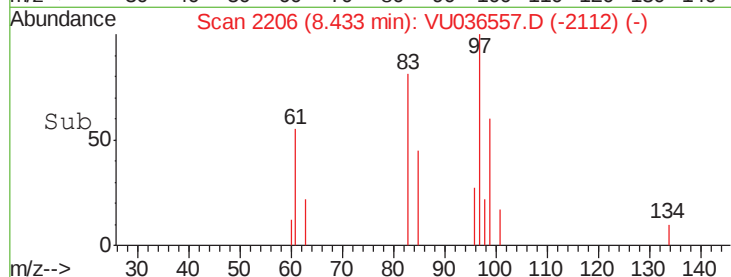
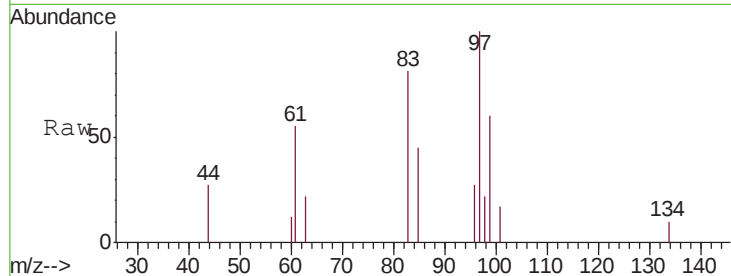
#45
1,1,2-Trichloroethane
Concen: 0.241 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion: 97 Resp: 1712
Ion Ratio Lower Upper
97 100
99 59.9 42.1 78.3
83 81.0 58.4 108.6
85 44.9 39.6 73.6

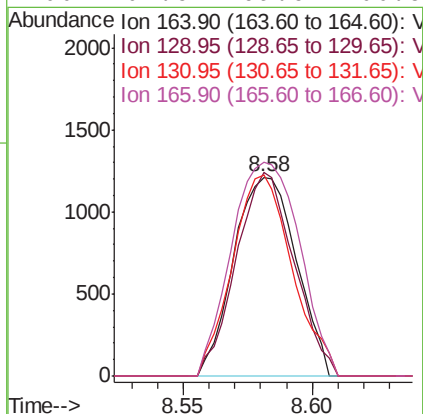
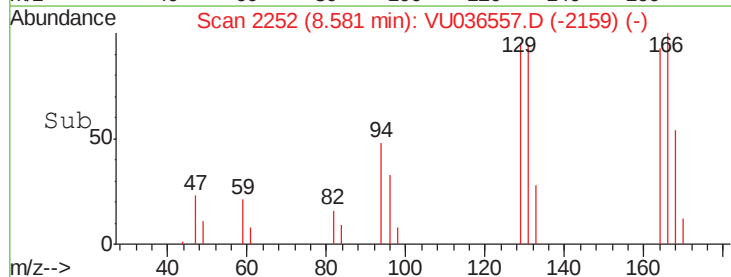
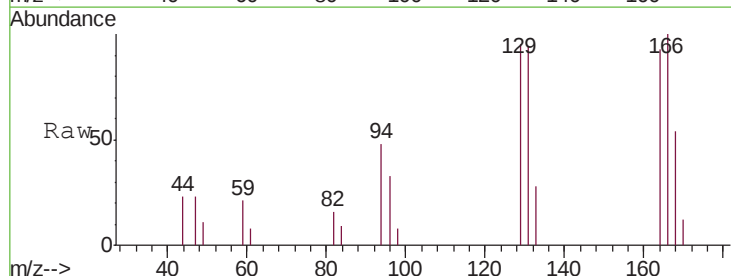
Manual Integrations
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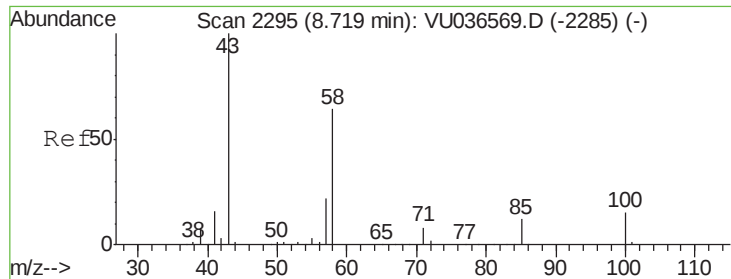
MMDadoda
2/14/2020 12:23:54 PM



#47
Tetrachloroethene
Concen: 0.246 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 164 Resp: 2046
Ion Ratio Lower Upper
164 100
129 102.4 64.7 120.1
131 101.2 64.0 118.8
166 107.5 89.5 166.3





#48

2-Hexanone

Concen: 2.983 ug/L

RT: 8.72 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

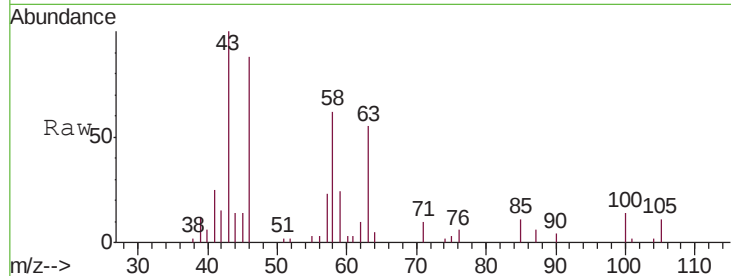
Instrument :
MSVOA_U
ClientSampled :
MDL01

Tgt Ion: 43 Resp: 11095

Ion	Ratio	Lower	Upper
43	100		
58	60.2	50.2	75.2
57	22.9	17.5	26.3
100	12.4	11.5	17.3

Manual Integrations
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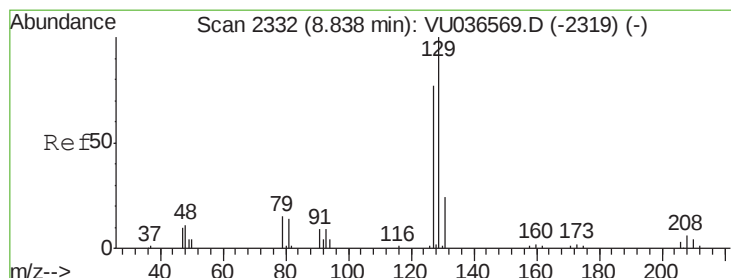
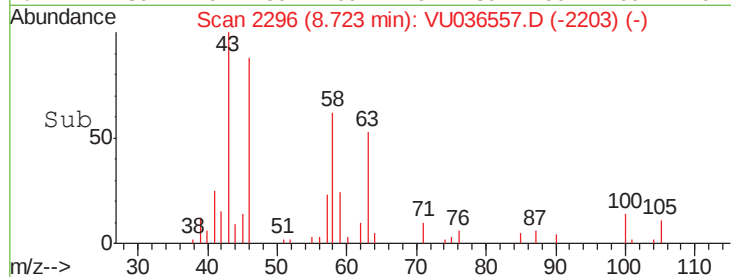
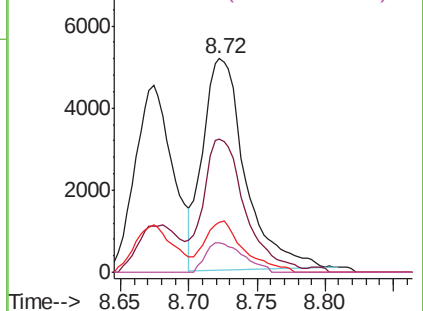


Abundance Ion 43.05 (42.75 to 43.75): VU036557.D (-2296) (-)

Ion 58.05 (57.75 to 58.75): VU036557.D (-2296) (-)

Ion 57.20 (56.90 to 57.90): VU036557.D (-2296) (-)

Ion 100.15 (99.85 to 100.85): VU036557.D (-2296) (-)



#49

Dibromochloromethane

Concen: 0.234 ug/L

RT: 8.84 min Scan# 2333

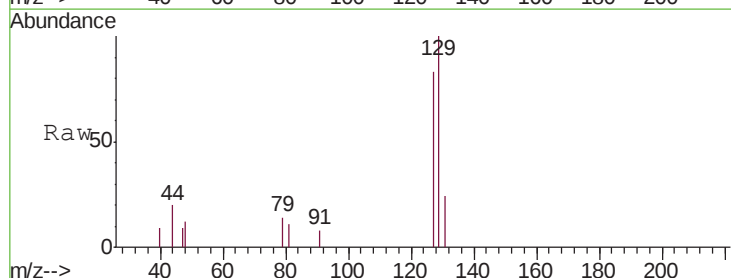
Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

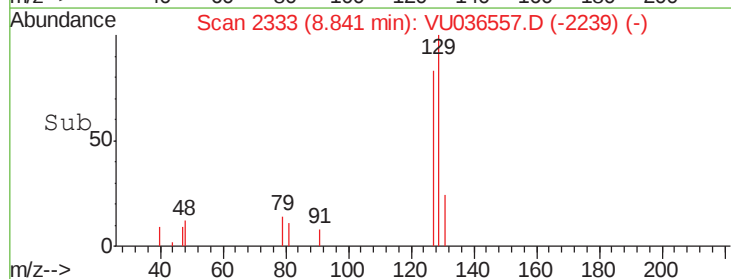
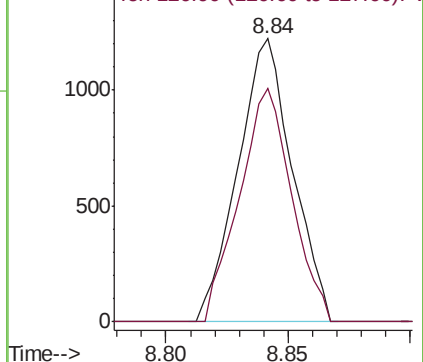
Tgt Ion: 129 Resp: 1895

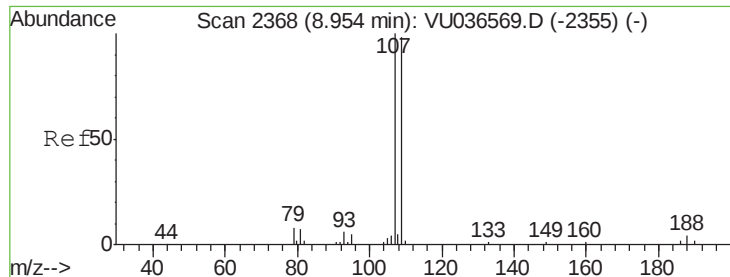
Ion	Ratio	Lower	Upper
129	100		
127	82.6	54.5	101.3



Abundance Ion 128.95 (128.65 to 129.65): VU036557.D (-2333) (-)

Ion 126.90 (126.60 to 127.60): VU036557.D (-2333) (-)





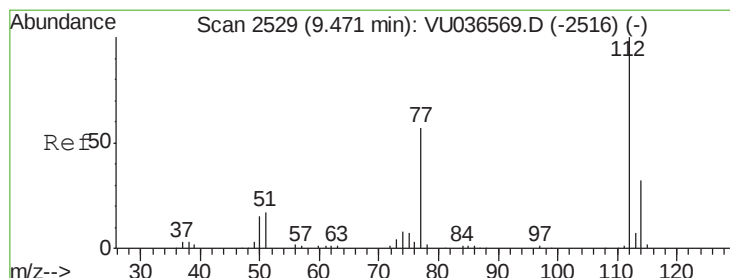
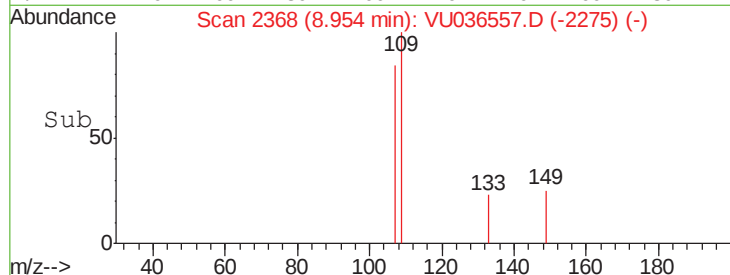
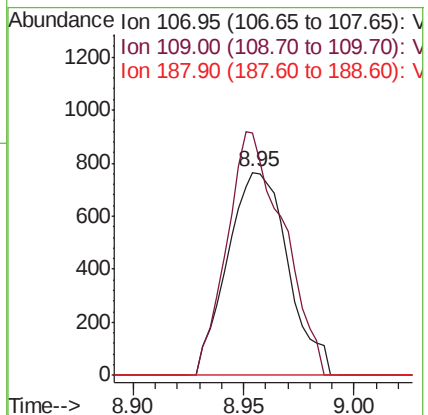
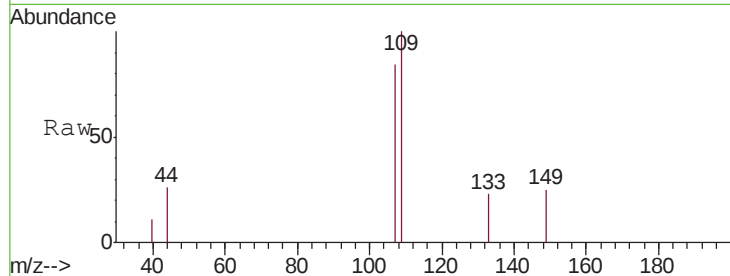
#50
1,2-Dibromoethane
Concen: 0.211 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion:107 Resp: 1459
Ion Ratio Lower Upper
107 100
109 119.5 64.5 119.9
188 0.0 2.8 4.2#

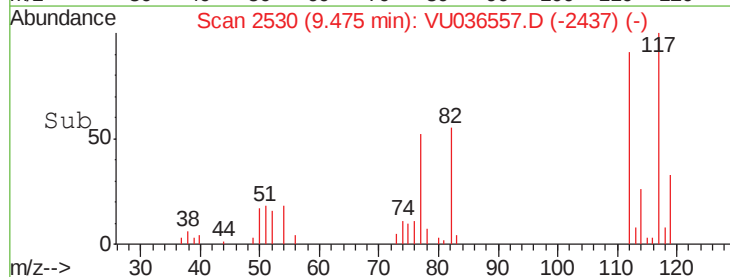
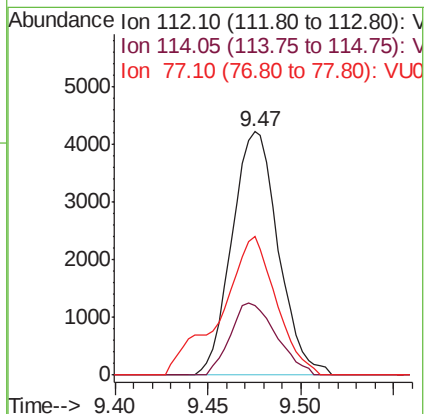
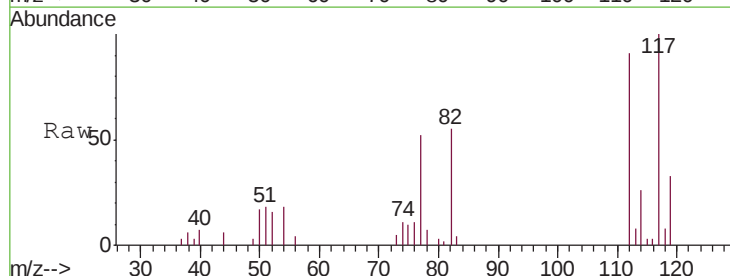
Manual Integrations
APPROVED

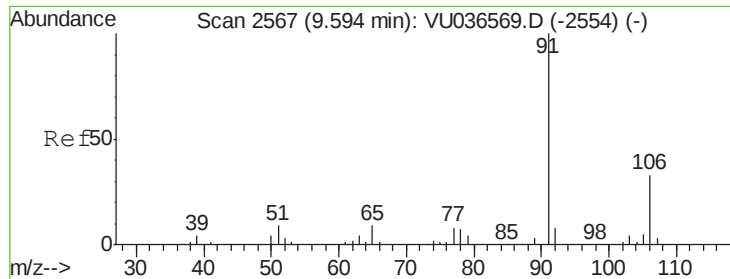
MMDadoda
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#51
Chlorobenzene
Concen: 0.268 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion:112 Resp: 7316
Ion Ratio Lower Upper
112 100
114 28.4 23.2 43.2
77 57.0 45.9 68.9





#52

Ethylbenzene

Concen: 0.256 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 91 Resp: 11882

Ion Ratio Lower Upper

91 100

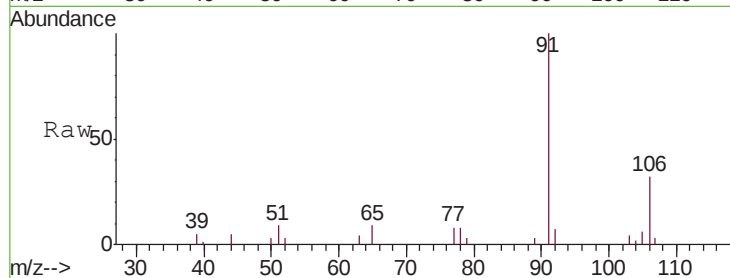
106 31.9 22.3 41.3

Manual Integrations

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Abundance Ion 91.15 (90.85 to 91.85): VU036569.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036569.D (-2554) (-)

9.60

8000

6000

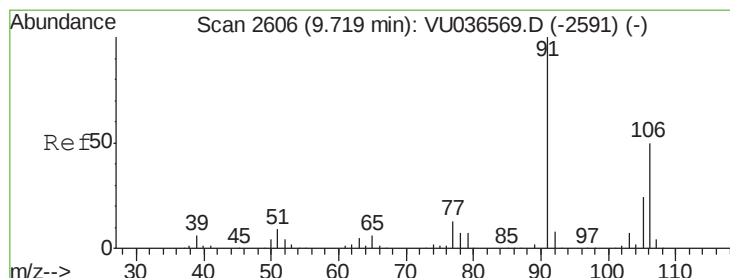
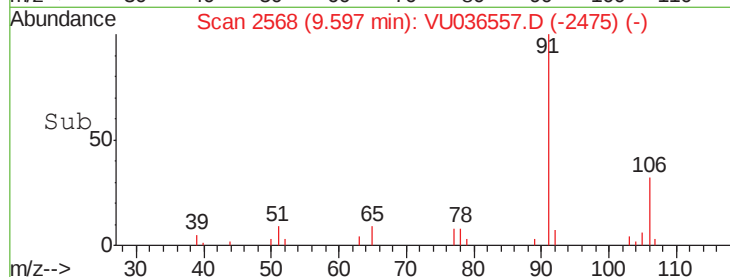
4000

2000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 0.239 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036557.D

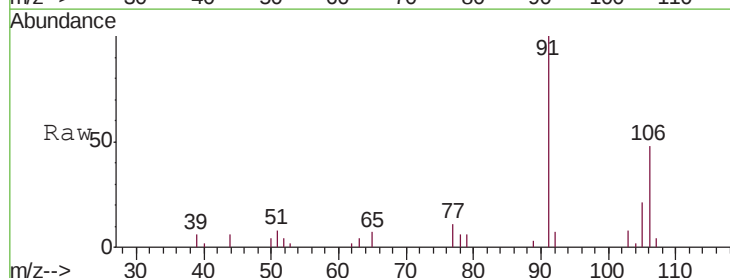
Acq: 24 Jan 2020 16:06

Tgt Ion: 106 Resp: 4301

Ion Ratio Lower Upper

106 100

91 209.2 141.4 262.6



Abundance Ion 106.15 (105.85 to 106.85): VU036569.D (-2591) (-)

Ion 91.15 (90.85 to 91.85): VU036569.D (-2591) (-)

9.72

6000

5000

4000

3000

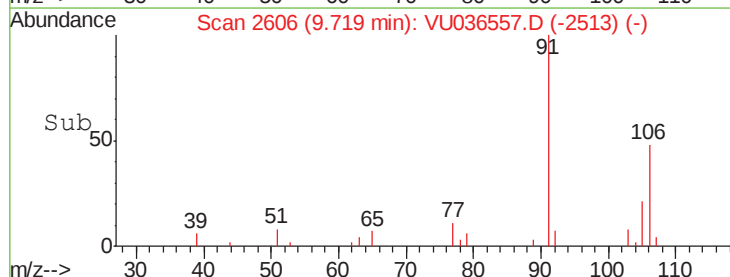
2000

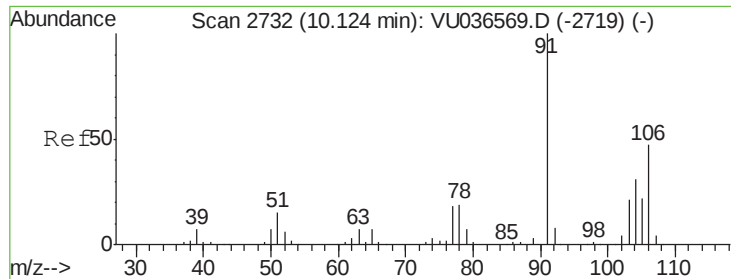
1000

0

9.70 9.75

Time-->





#54

o-Xylene

Concen: 0.250 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion:106 Resp: 4413

Ion Ratio Lower Upper

106 100

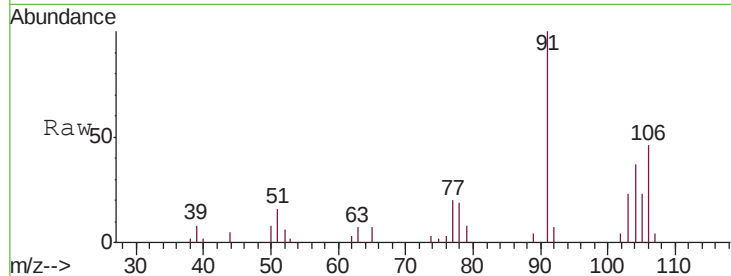
91 219.2 146.2 271.4

Manual Integrations

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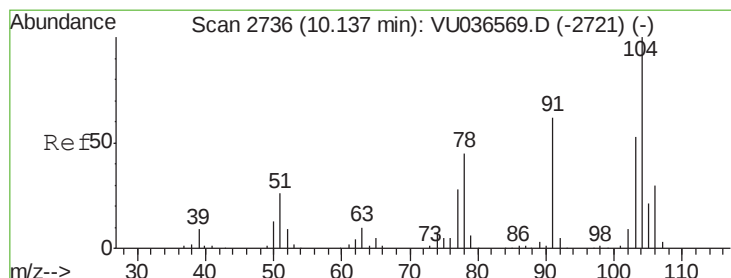
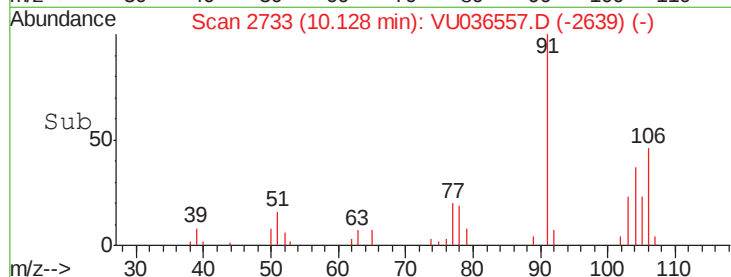
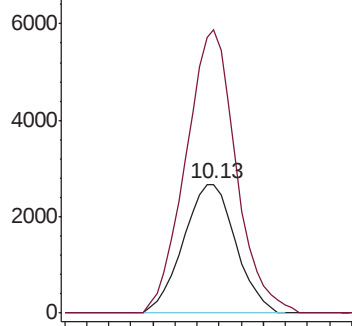
MMDadoda

2/14/2020 12:23:54 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.232 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036557.D

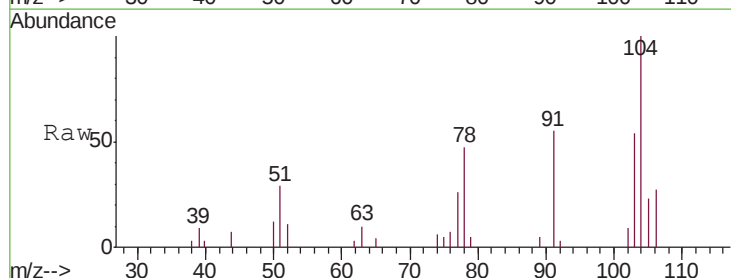
Acq: 24 Jan 2020 16:06

Tgt Ion:104 Resp: 6703

Ion Ratio Lower Upper

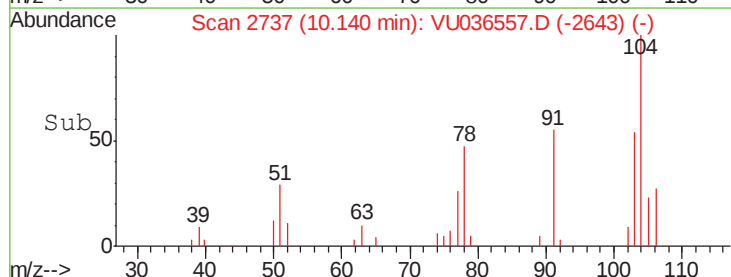
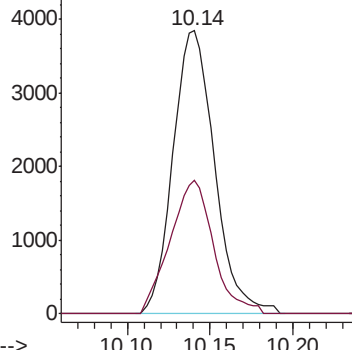
104 100

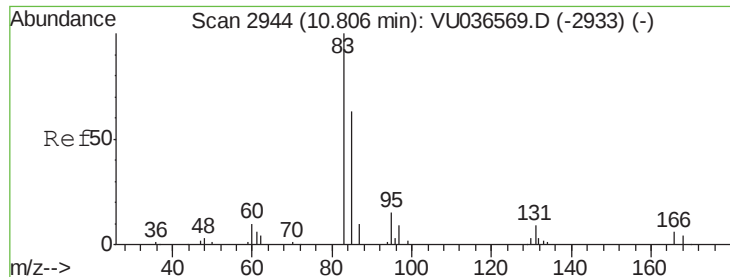
78 47.0 31.9 59.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





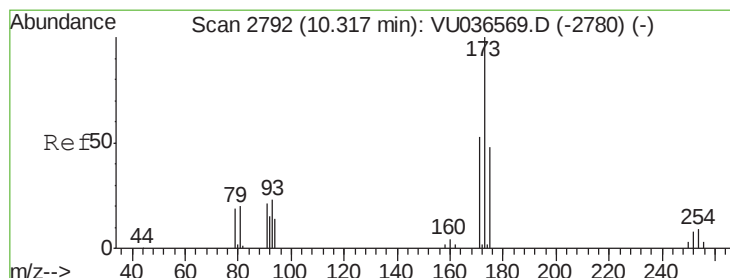
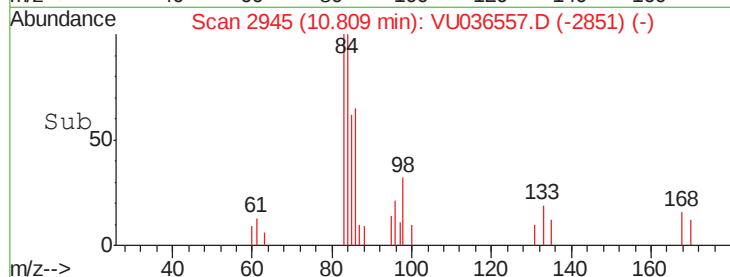
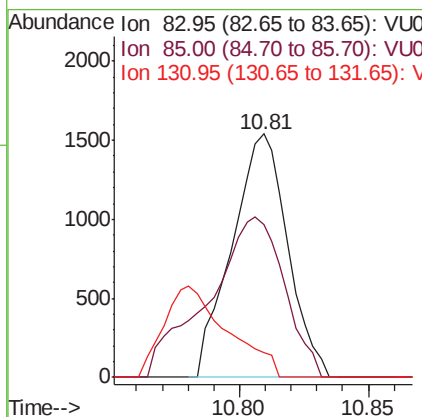
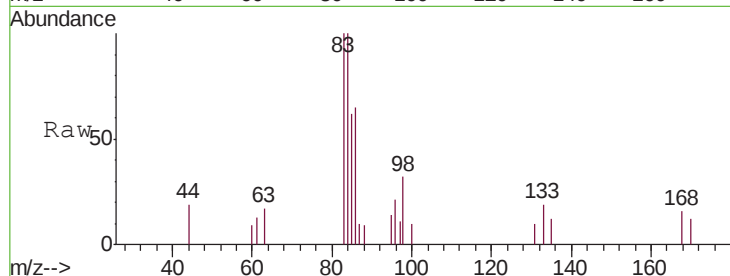
#57
1,1,2,2-Tetrachloroethane
Concen: 0.261 ug/L
RT: 10.81 min Scan# 2945
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion: 83 Resp: 2323
Ion Ratio Lower Upper
83 100
85 62.5 47.0 87.4
131 10.2 8.1 12.1

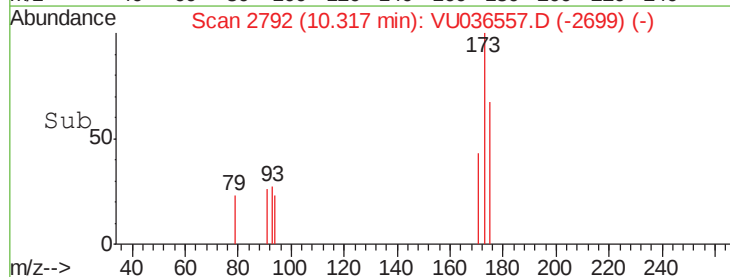
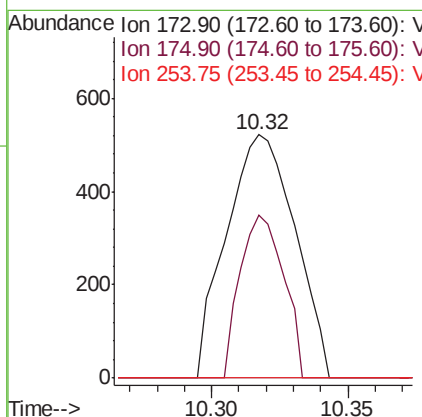
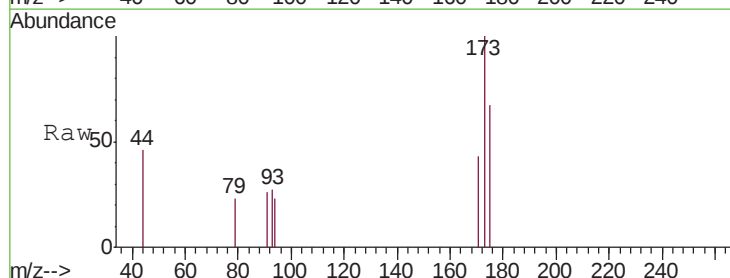
Manual Integrations
APPROVED

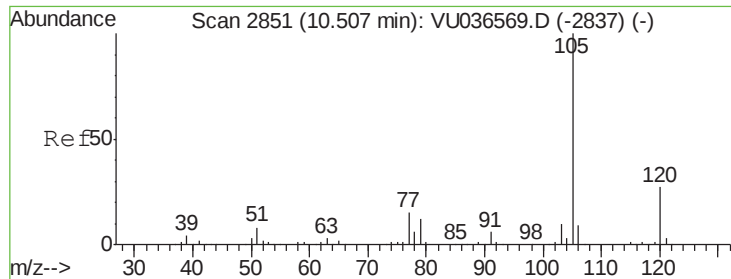
MMDadoda
2/14/2020 12:23:54 PM



#59
Bromoform
Concen: 0.209 ug/L
RT: 10.32 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 173 Resp: 913
Ion Ratio Lower Upper
173 100
175 42.4 39.0 58.4
254 0.0 6.3 9.5#





#60

Isopropylbenzene

Concen: 0.249 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion: 105 Resp: 10928

Ion Ratio Lower Upper

105 100

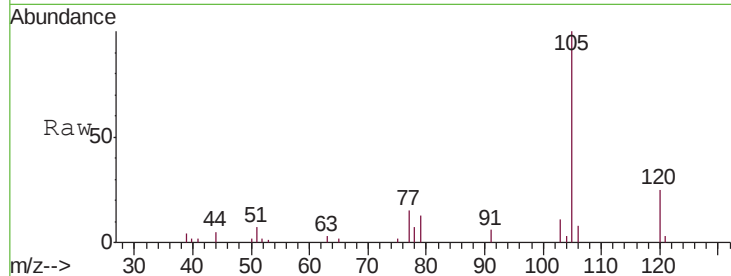
120 25.9 21.5 32.3

77 14.7 12.2 18.2

Manual Integrations
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MMDadoda

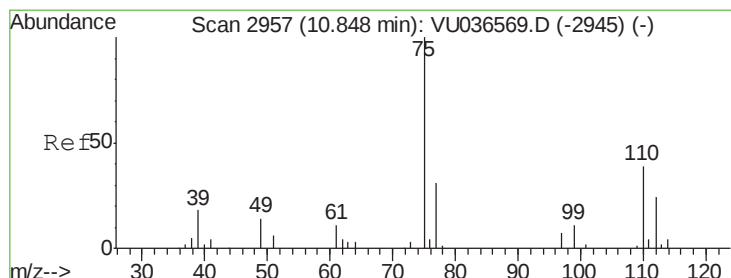
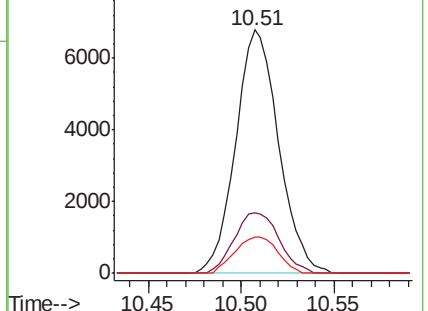
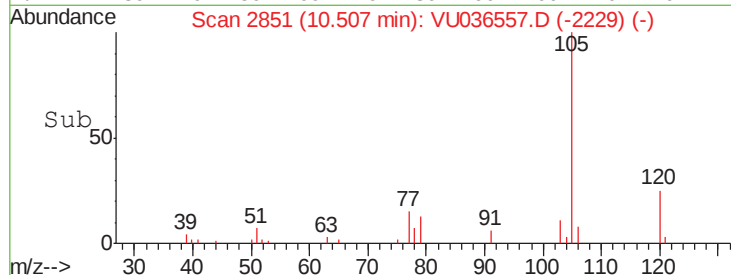
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0



#61

1,2,3-Trichloropropane

Concen: 0.256 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

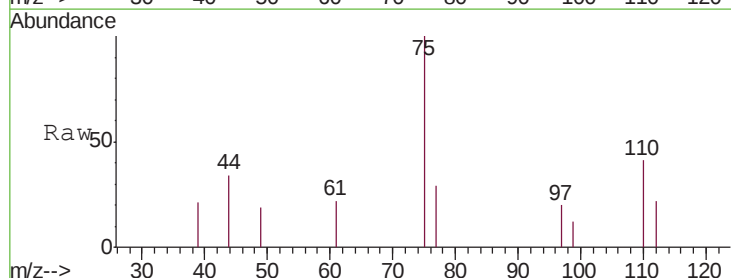
Tgt Ion: 75 Resp: 1548

Ion Ratio Lower Upper

75 100

110 36.2 29.0 43.4

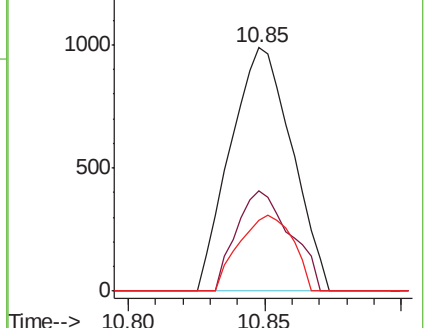
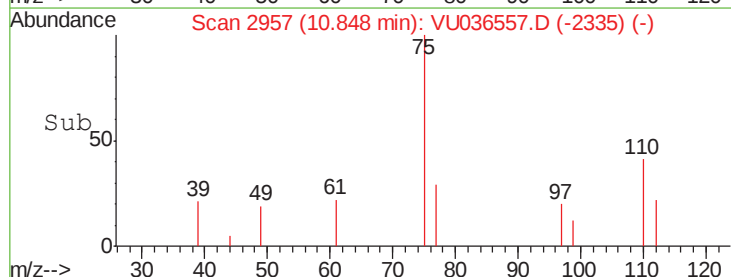
77 27.2 25.8 38.6

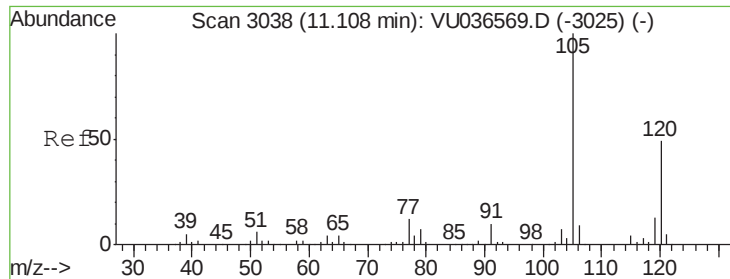


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VU0





#62

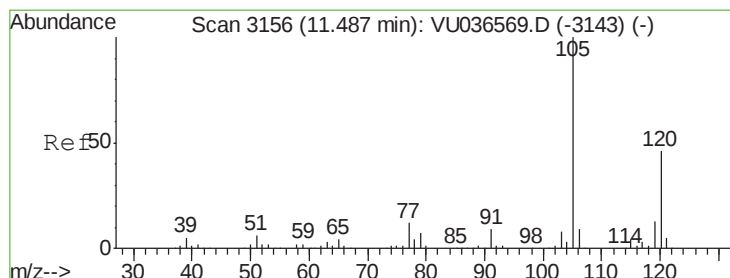
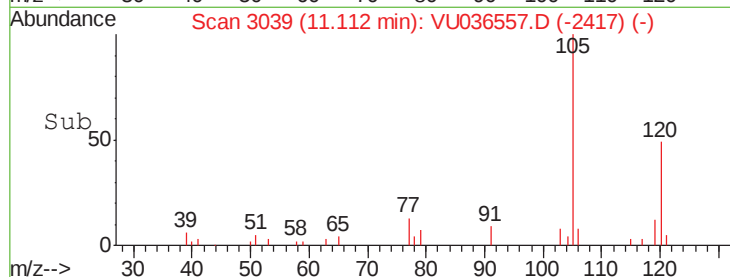
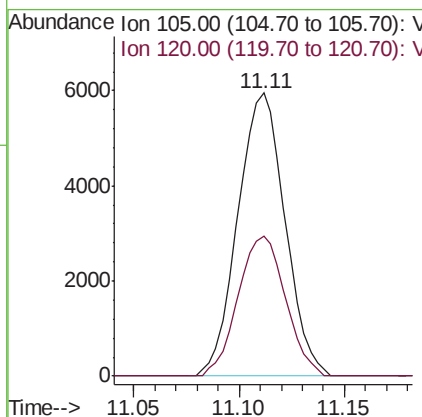
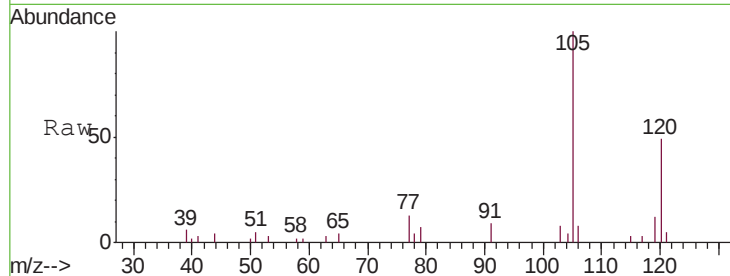
1,3,5-Trimethylbenzene
Concen: 0.246 ug/L
RT: 11.11 min Scan# 3039
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion:105 Resp: 9247
Ion Ratio Lower Upper
105 100
120 49.7 39.7 59.5

Manual Integrations
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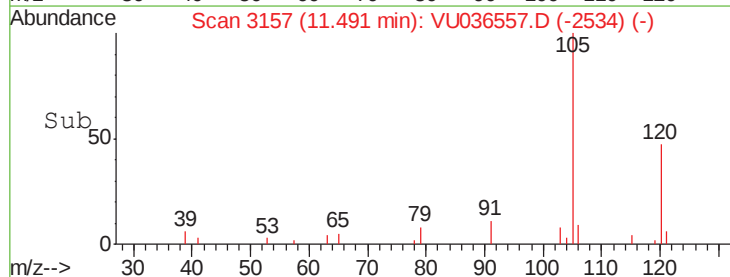
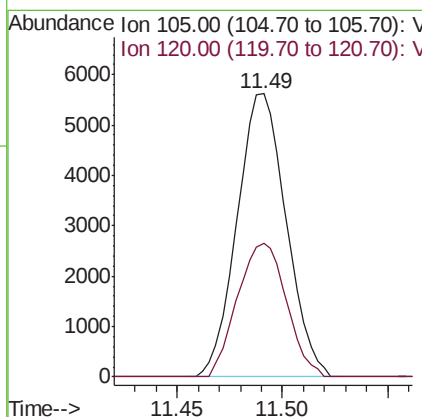
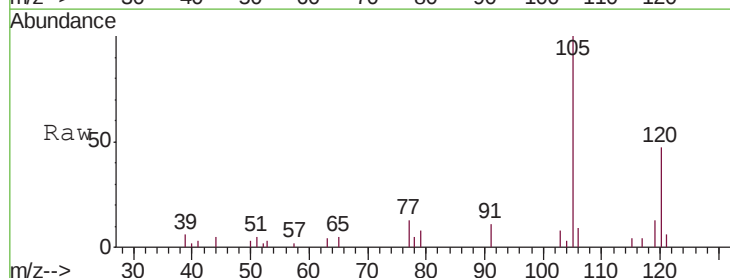
MMDadoda
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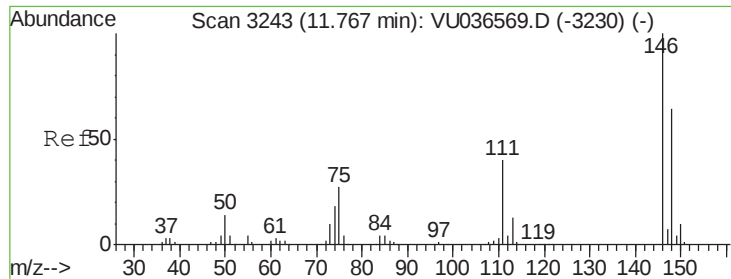


#63

1,2,4-Trimethylbenzene
Concen: 0.244 ug/L
RT: 11.49 min Scan# 3157
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion:105 Resp: 9095
Ion Ratio Lower Upper
105 100
120 46.9 36.9 55.3





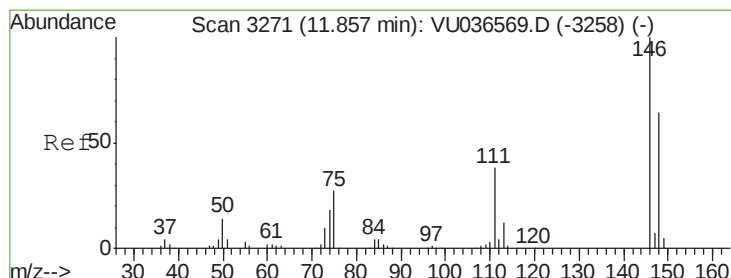
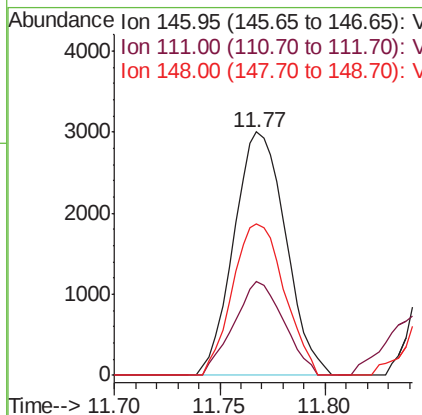
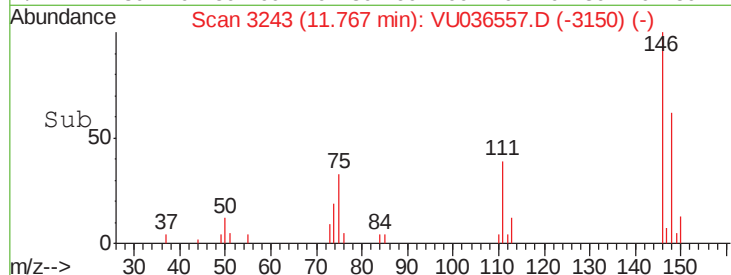
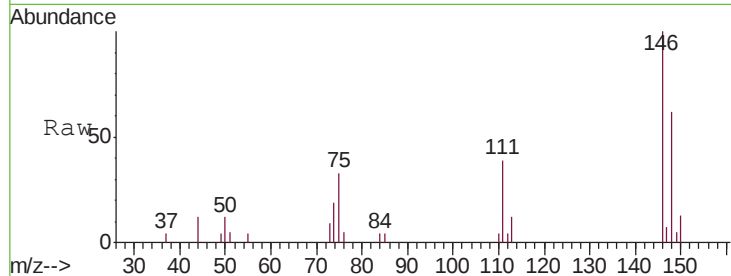
#64
1,3-Dichlorobenzene
Concen: 0.251 ug/L
RT: 11.77 min Scan# 3243
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tgt Ion:146 Resp: 5129
Ion Ratio Lower Upper
146 100
111 38.6 28.8 53.6
148 62.1 44.2 82.2

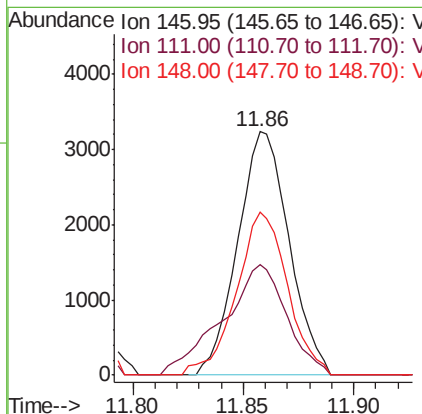
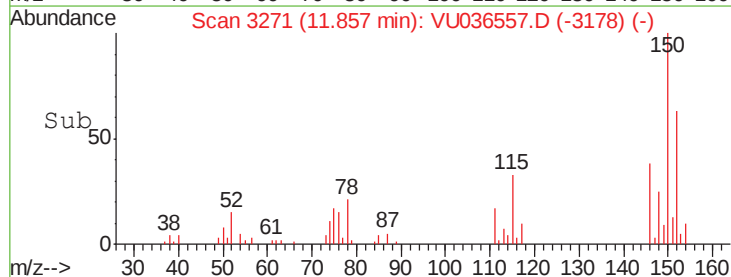
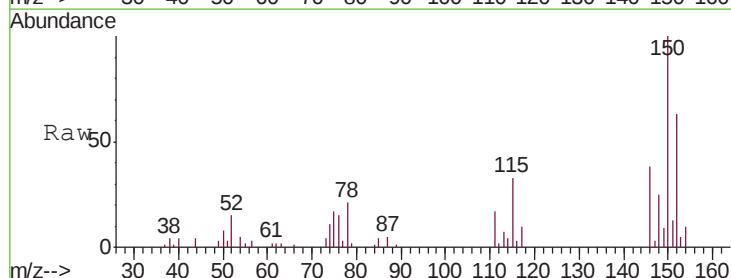
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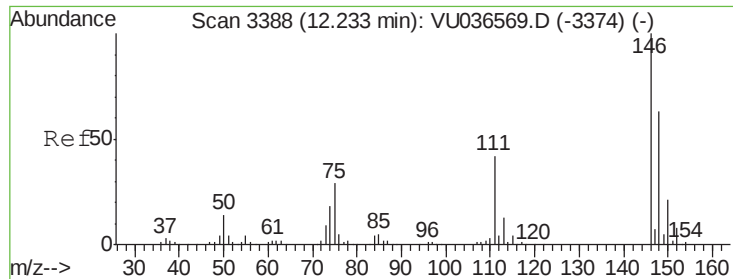
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#65
1,4-Dichlorobenzene
Concen: 0.256 ug/L
RT: 11.86 min Scan# 3271
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion:146 Resp: 5239
Ion Ratio Lower Upper
146 100
111 45.2 27.2 50.6
148 66.8 44.8 83.2





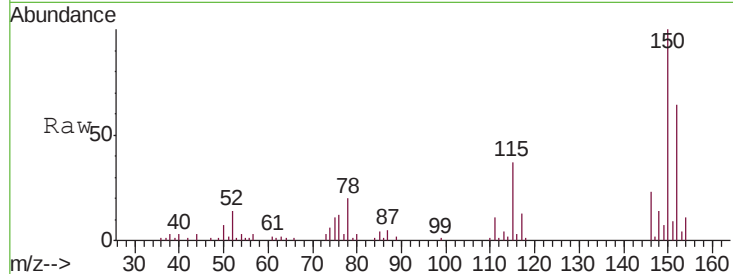
#67
1,2-Dichlorobenzene
Concen: 0.256 ug/L
RT: 12.23 min Scan# 3388
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Instrument :
MSVOA_U
ClientSampled :
MDL01

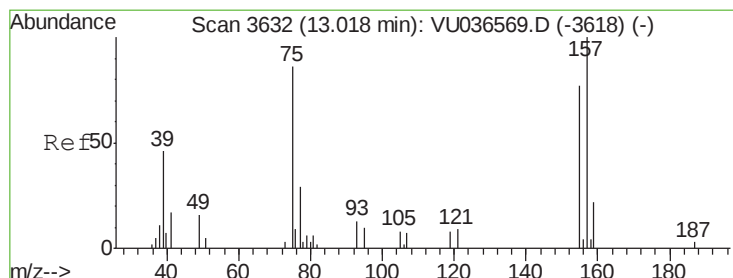
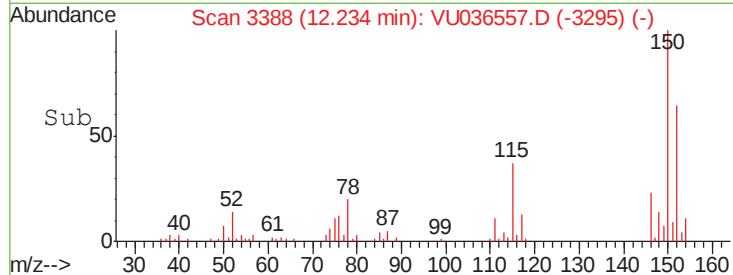
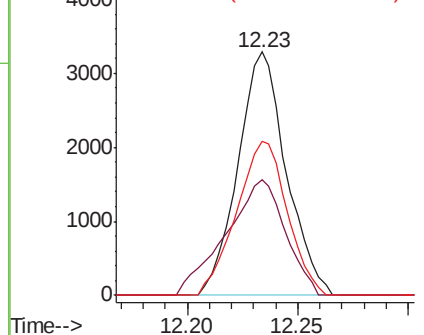
Tgt Ion:146 Resp: 4995
Ion Ratio Lower Upper
146 100
111 47.7 33.4 50.0
148 63.0 51.0 76.4

Manual Integrations
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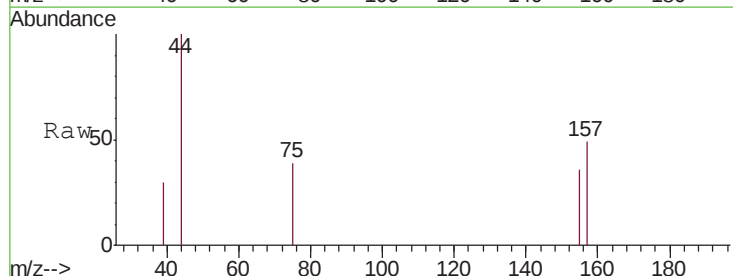


Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

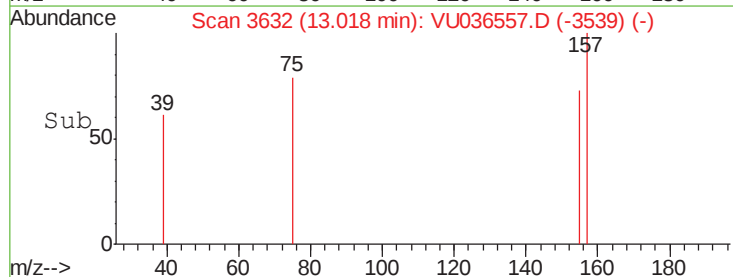
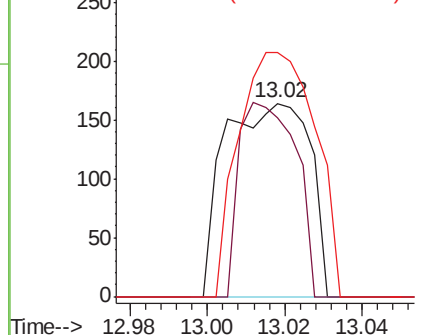


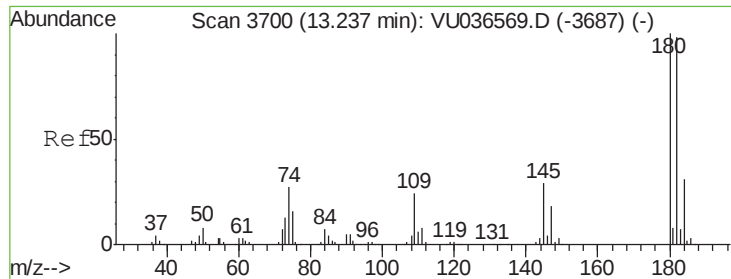
#68
1,2-Dibromo-3-chloropropane
Concen: 0.197 ug/L
RT: 13.02 min Scan# 3632
Delta R.T. 0.00 min
Lab File: VU036557.D
Acq: 24 Jan 2020 16:06

Tgt Ion: 75 Resp: 252
Ion Ratio Lower Upper
75 100
155 92.7 64.2 96.4
157 126.2 85.1 127.7



Abundance Ion 75.05 (74.75 to 75.75): VUO
Ion 154.95 (154.65 to 155.65): V
Ion 156.90 (156.60 to 157.60): V





#69

1,3,5-Trichlorobenzene

Concen: 0.216 ug/L

RT: 13.24 min Scan# 3700

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tgt Ion:180 Resp: 3390

Ion Ratio Lower Upper

180 100

182 97.8 75.2 112.8

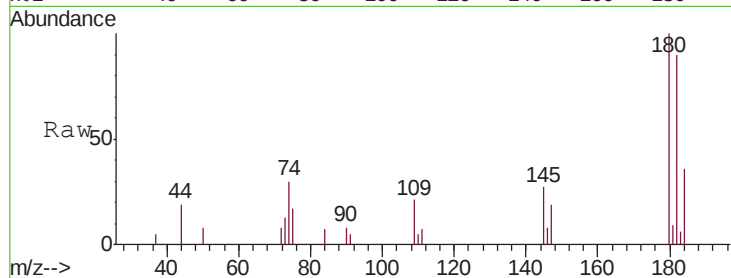
184 33.5 23.9 35.9

145 29.8 22.7 34.1

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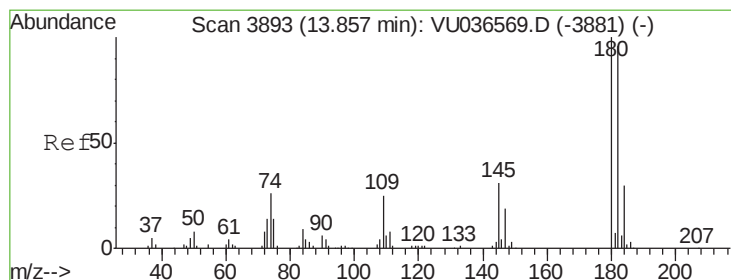
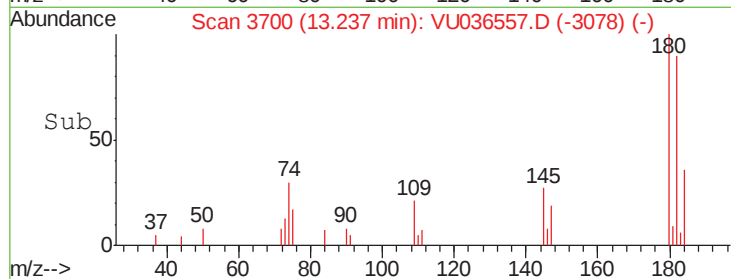
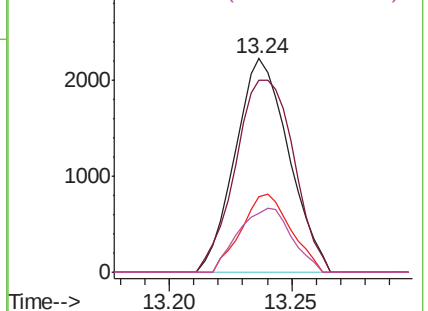


Abundance Ion 180.00 (179.70 to 180.70): V

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



#70

1,2,4-trichlorobenzene

Concen: 0.164 ug/L

RT: 13.86 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

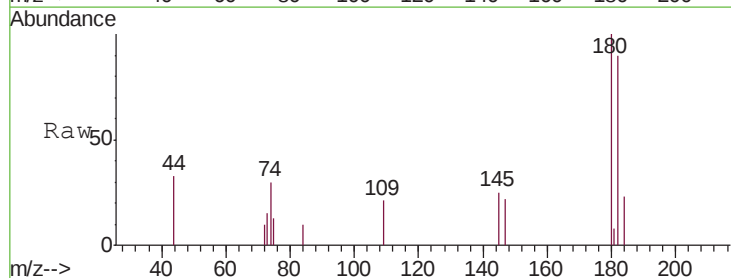
Tgt Ion:180 Resp: 1878

Ion Ratio Lower Upper

180 100

182 101.5 76.2 114.4

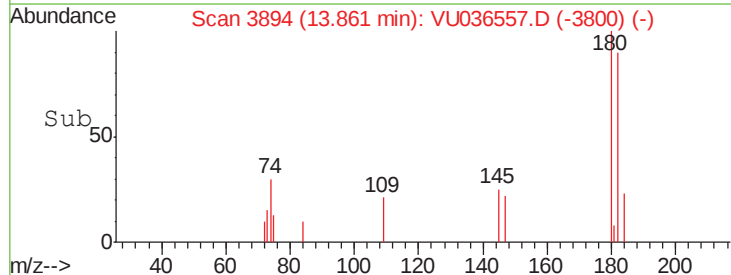
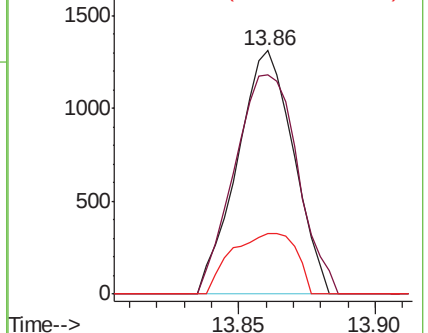
145 28.8 23.9 35.9

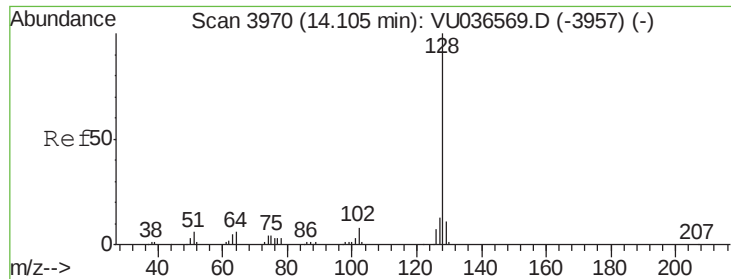


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#71

Naphthalene

Concen: 0.143 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

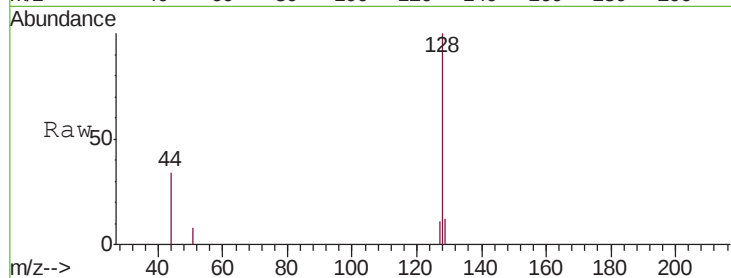
MDL01

Tgt Ion:128 Resp: 2335

Ion	Ratio	Lower	Upper
128	100		
129	7.8	8.4	12.6#
127	7.0	9.9	14.9#

Manual Integrations
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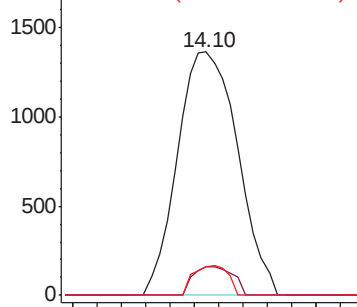
MMDadoda
2/14/2020 12:23:54 PM



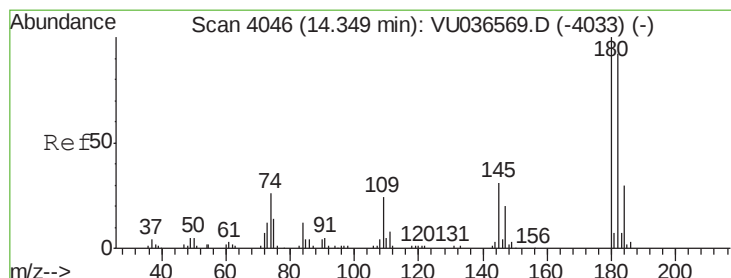
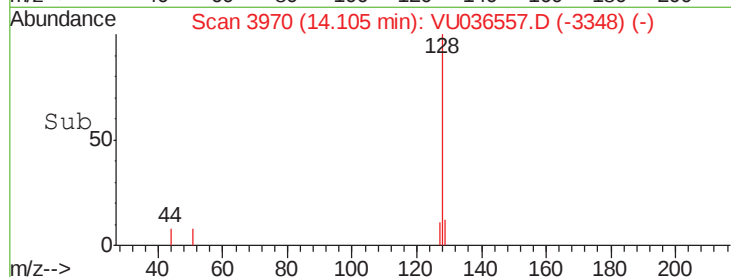
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time--> 14.05 14.10 14.15



#72

1,2,3-Trichlorobenzene

Concen: 0.200 ug/L

RT: 14.35 min Scan# 4045

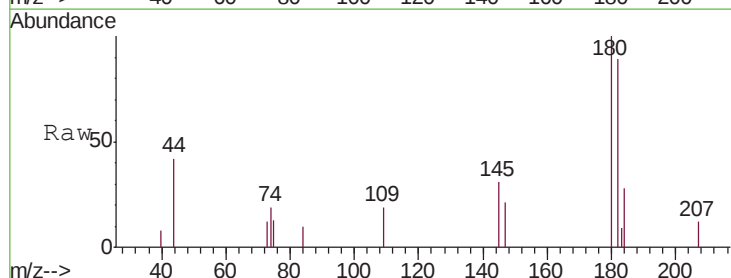
Delta R.T. 0.00 min

Lab File: VU036557.D

Acq: 24 Jan 2020 16:06

Tgt Ion:180 Resp: 2069

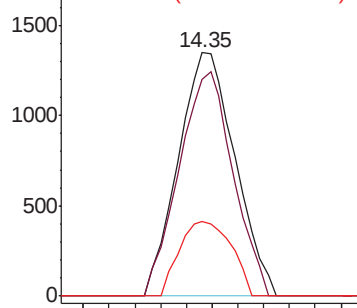
Ion	Ratio	Lower	Upper
180	100		
182	87.7	76.2	114.2
145	27.9	25.6	38.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V



Time--> 14.30 14.35

