

Data File : VU036565.D
Acq On : 27 Jan 2020 13:51
Operator : JC/MD
Sample : MDL04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Manual Integrations
APPROVED

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

Quant Time: Jan 28 02:33:50 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR012420WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Jan 28 02:00:09 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	6.29	114	157935	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	148697	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	70207	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	35300	4.06	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.20%
7) Chloroethane-d5	1.93	69	34348	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.20%
11) 1,1-Dichloroethene-d2	2.59	65	15578	4.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.00%
20) 2-Butanone-d5	4.69	46	80944	42.30	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.60%
24) Chloroform-d	5.11	84	71179	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.60%
26) 1,2-Dichloroethane-d4	5.75	65	38589	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
32) Benzene-d6	5.77	84	159872	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
36) 1,2-Dichloropropane-d6	6.73	67	50460	4.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.00%
41) Toluene-d8	7.93	98	154381	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
43) trans-1,3-Dichloropropene-	8.21	79	20215	4.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.80%
46) 2-Hexanone-d5	8.67	63	99972	49.39	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.78%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	41316	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.20%
66) 1,2-Dichlorobenzene-d4	12.21	152	57130	4.69	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	2768	0.239 ug/L	98
3) Chloromethane	1.54	50	3076	0.252 ug/L	90
5) Vinyl chloride	1.62	62	3221	0.243 ug/L #	69
6) Bromomethane	1.88	94	1948	0.253 ug/L	93
8) Chloroethane	1.95	64	2423	0.295 ug/L	92
9) Trichlorofluoromethane	2.16	101	3655	0.237 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	2842	0.298 ug/L	89
12) 1,1-Dichloroethene	2.60	96	2725	0.289 ug/L #	1
13) Acetone	2.67	43	6588	4.619 ug/L	99
14) Carbon disulfide	2.82	76	7329	0.247 ug/L	100
15) Methyl Acetate	3.00	43	856	0.235 ug/L #	51
16) Methylene chloride	3.08	84	4695	0.366 ug/L	98
17) Methyl tert-butyl Ether	3.41	73	5808	0.245 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	2519	0.248 ug/L	90
19) 1,1-Dichloroethane	3.92	63	4291	0.243 ug/L	96
21) 2-Butanone	4.77	43	7506	3.254 ug/L	99
22) cis-1,2-Dichloroethene	4.72	96	2792	0.247 ug/L	99

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Jan 28 02:00:09 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
23) Bromochloromethane	5.02	128	1061	0.223	ug/L #	95
25) Chloroform	5.13	83	4999	0.283	ug/L	99
27) 1,2-Dichloroethane	5.84	62	2786	0.252	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	3684	0.248	ug/L	93
30) Cyclohexane	5.43	56	4002	0.236	ug/L	99
31) Carbon tetrachloride	5.57	117	2759	0.219	ug/L	94
33) Benzene	5.82	78	10464	0.250	ug/L	100
34) Trichloroethene	6.58	95	2726	0.246	ug/L	91
35) Methylcyclohexane	6.80	83	4775	0.252	ug/L	94
37) 1,2-Dichloropropane	6.83	63	2603	0.251	ug/L #	88
38) Bromodichloromethane	7.14	83	3013	0.237	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	3606	0.225	ug/L	92
40) 4-Methyl-2-pentanone	7.84	43	15818	2.707	ug/L #	87
42) Toluene	8.00	91	12589	0.273	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	2824m	0.229	ug/L	
45) 1,1,2-Trichloroethane	8.43	97	1914	0.249	ug/L	95
47) Tetrachloroethene	8.58	164	2282	0.253	ug/L	94
48) 2-Hexanone	8.72	43	12526	3.107	ug/L	97
49) Dibromochloromethane	8.84	129	1968	0.224	ug/L	94
50) 1,2-Dibromoethane	8.96	107	1779	0.238	ug/L #	93
51) Chlorobenzene	9.47	112	7946	0.268	ug/L	94
52) Ethylbenzene	9.60	91	12451	0.248	ug/L	93
53) m,p-Xylene	9.72	106	4716	0.242	ug/L	96
54) o-Xylene	10.12	106	4922	0.258	ug/L	91
55) Styrene	10.14	104	7712	0.246	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.81	83	2427	0.252	ug/L #	80
59) Bromoform	10.32	173	1099	0.233	ug/L #	90
60) Isopropylbenzene	10.51	105	12319	0.260	ug/L	99
61) 1,2,3-Trichloropropane	10.85	75	1812	0.277	ug/L #	81
62) 1,3,5-Trimethylbenzene	11.11	105	10121	0.249	ug/L	98
63) 1,2,4-Trimethylbenzene	11.49	105	10046	0.249	ug/L	97
64) 1,3-Dichlorobenzene	11.77	146	5669	0.256	ug/L	97
65) 1,4-Dichlorobenzene	11.86	146	5708	0.258	ug/L	98
67) 1,2-Dichlorobenzene	12.23	146	5264	0.249	ug/L	98
68) 1,2-Dibromo-3-chloropropan	13.01	75	364	0.263	ug/L #	76
69) 1,3,5-Trichlorobenzene	13.24	180	3631	0.214	ug/L	97
70) 1,2,4-trichlorobenzene	13.86	180	2060	0.167	ug/L	96
71) Naphthalene	14.10	128	1879	0.107	ug/L #	86
72) 1,2,3-Trichlorobenzene	14.35	180	1802	0.161	ug/L	97

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

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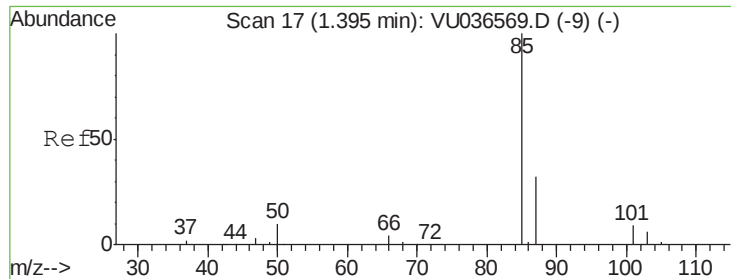
Abundance

TIC: VU036565.D

Time-->

Peak labels (from left to right):

- Dichlorodifluoropropane, T
- Chloromethane, T
- Vinyl Chloride, T
- Bromochloroethane, T
- Chloroethane-d5, S
- Trichlorofluoromethane, T
- 1,1-Dichloroethane-2,2,3,3-tetrafluoroethane, T
- Acetone, T
- Carbon disulfide, T
- Methylchloride, T
- Methylchloride, T
- 1,1-Dichloroethane, T
- 2-Butanone, T
- cis-1,2-Dichloroethane-d5, S
- Bromochloromethane, T
- Chloroform, T
- 1,1,1-Trichloroethane, T
- Carbon tetrachloride, T
- 1,2-Dichloroethane, T
- 1,2-Dichloroethane-d4, S
- Benzene-d6, S
- 1,4-Difluorobenzene, I
- 1,2-Dichloropropane-d6, S
- Trichloroethene, T
- 1,2-Dichloroethane, T
- Bromodichloromethane, T
- cis-1,3-Dichloropropene, T
- 4-Methyl-2-pentanone, I
- Toluene, I
- trans-1,3-Dichlorodibromopropene-d4, S
- 1,1,2-Trichloroethane, T
- Tetrachloroethene, I
- 2-Hexanone-d5, S
- Dibromochloromethane, T
- 1,2-Dichloroethane, T
- Chlorobenzene, T
- Ethylbenzene, T
- m,p-Xylene, I
- Bromobenzene, T
- Isopropylbenzene
- 1,2,3-Trichloropropane, T
- 1,1,2,2-Tetrachloroethane-d2, S
- 1,3,5-Trimethylbenzene
- 1,2,4-Trimethylbenzene
- 1,3-Dichlorobenzene, I
- 1,4-Dichlorobenzene, T
- 1,2-Dichlorobenzene, T
- 1,4-Dichlorobenzene-d4, I
- 1,2-Dichlorobenzene-d4, S
- 1,2-Dibromo-3-chloropropane, T
- 1,3,5-Trichlorobenzene
- 1,2,4-trichlorobenzene, T
- Naphthalene
- 1,2,3-Trichlorobenzene, T



#2

Dichlorodifluoromethane

Concen: 0.239 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 85 Resp: 2768

Ion Ratio Lower Upper

85 100

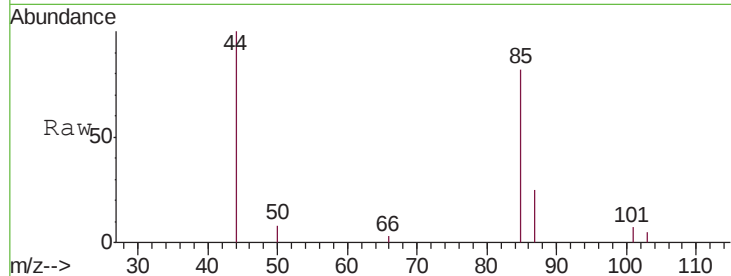
87 31.3 26.0 39.0

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Abundance Ion 85.00 (84.70 to 85.70): VU036569.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036569.D (-9) (-)

1.39

3000

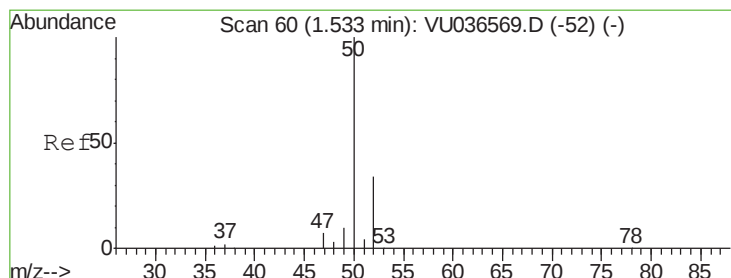
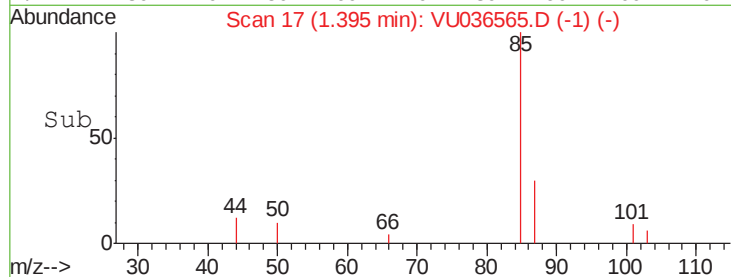
2000

1000

0

1.36 1.38 1.40 1.42

Time-->



#3

Chloromethane

Concen: 0.252 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036565.D

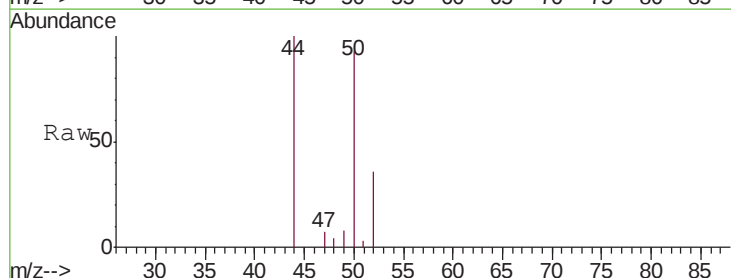
Acq: 27 Jan 2020 13:51

Tgt Ion: 50 Resp: 3076

Ion Ratio Lower Upper

50 100

52 38.2 22.7 42.3



Abundance Ion 50.05 (49.75 to 50.75): VU036569.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU036569.D (-52) (-)

1.54

3000

2500

2000

1500

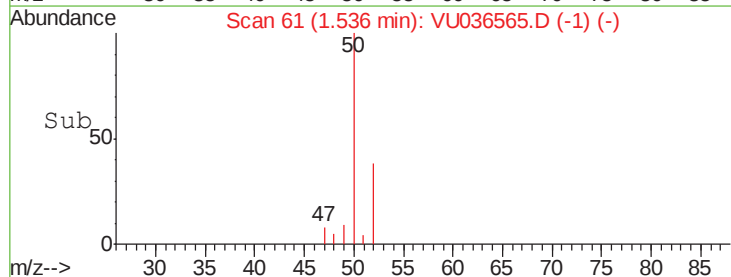
1000

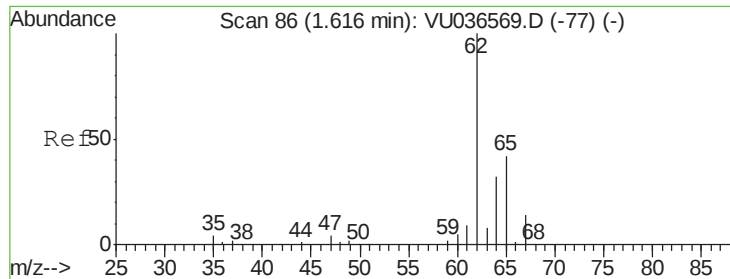
500

0

1.50 1.52 1.54 1.56 1.58

Time-->





#5

Vinyl chloride

Concen: 0.243 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 62 Resp: 3221

Ion Ratio Lower Upper

62 100

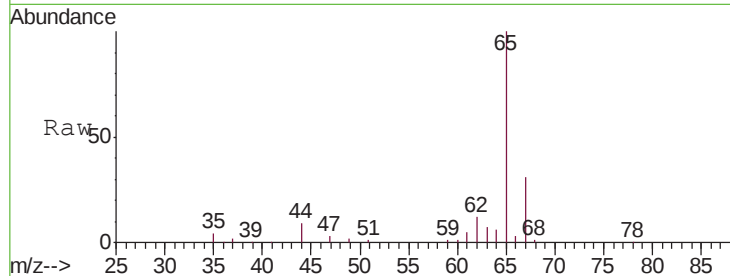
64 49.8 22.6 42.0#

Manual Integrations

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Abundance Ion 62.00 (61.70 to 62.70): VU036569.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU036569.D (-77) (-)

1.62

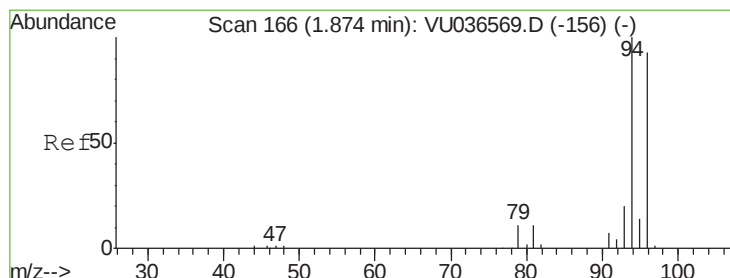
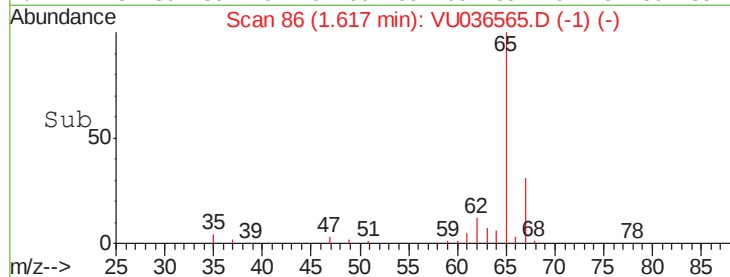
3000

2000

1000

0

Time-->



#6

Bromomethane

Concen: 0.253 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU036565.D

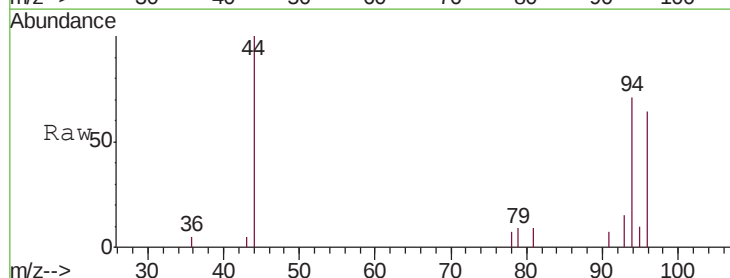
Acq: 27 Jan 2020 13:51

Tgt Ion: 94 Resp: 1948

Ion Ratio Lower Upper

94 100

96 89.4 67.6 125.6



Abundance Ion 94.00 (93.70 to 94.70): VU036569.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU036569.D (-156) (-)

1.88

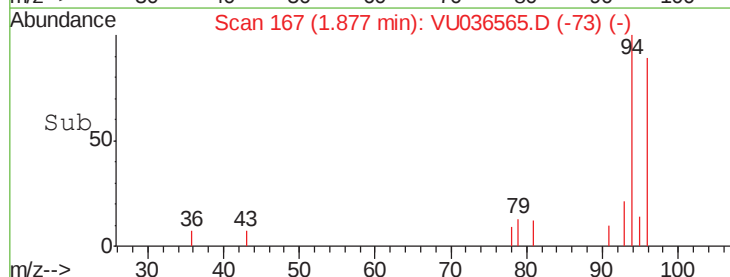
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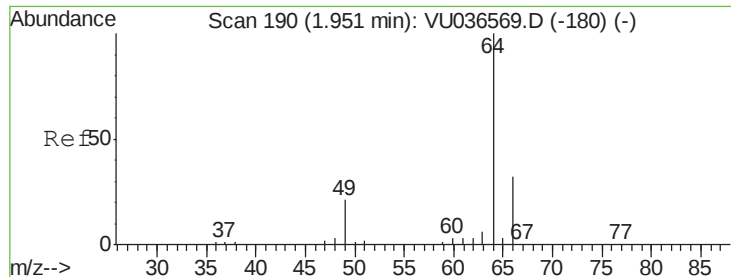
1000

500

0

Time-->





#8

Chloroethane

Concen: 0.295 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 64 Resp: 2423

Ion Ratio Lower Upper

64 100

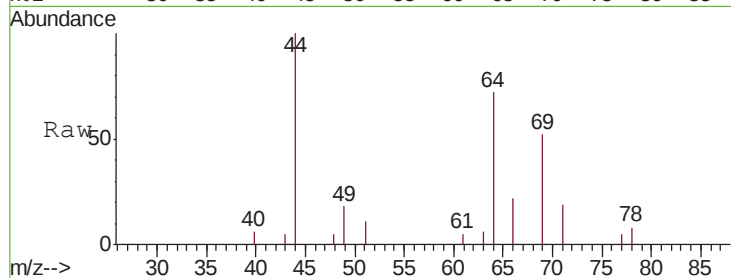
66 30.1 24.1 44.8

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

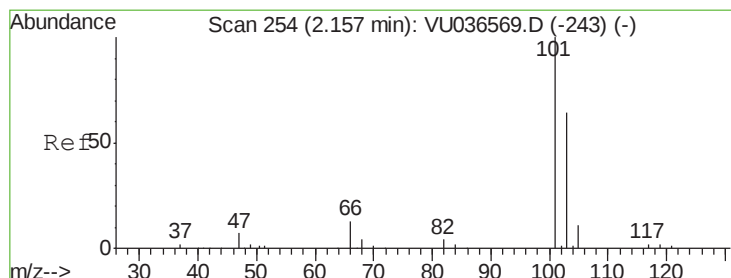
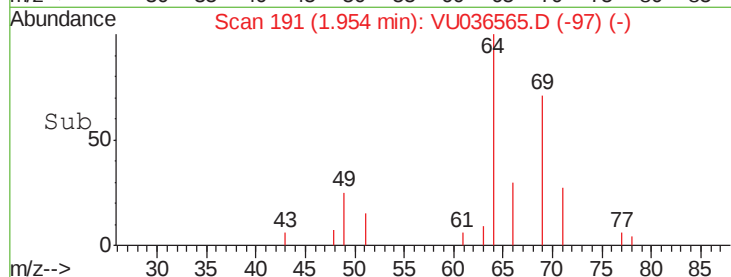
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 0.237 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036565.D

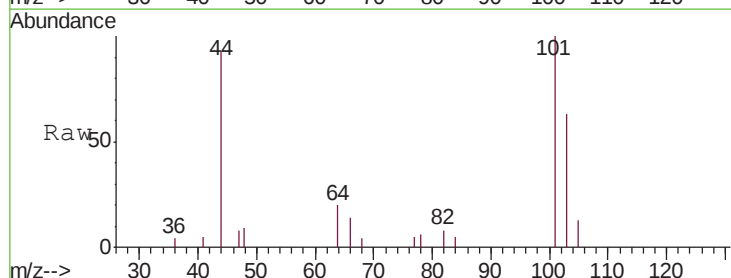
Acq: 27 Jan 2020 13:51

Tgt Ion: 101 Resp: 3655

Ion Ratio Lower Upper

101 100

103 64.2 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

3000

2500

2000

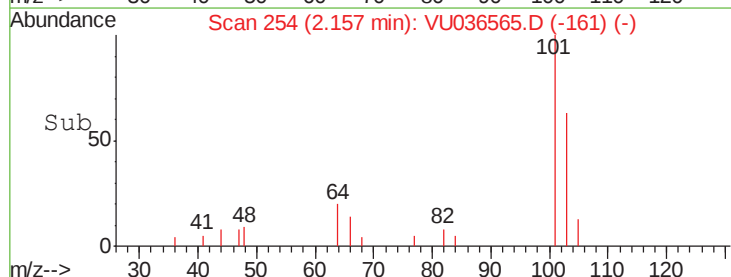
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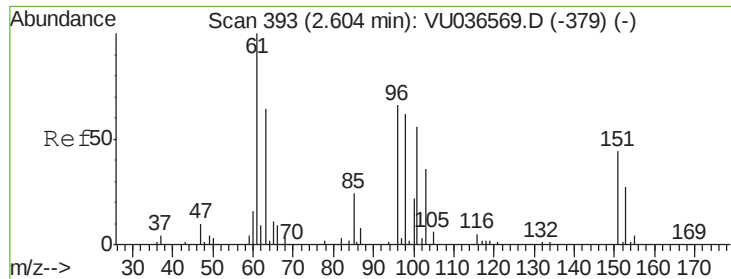
1000

500

0

Time-->





#10

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

Concen: 0.298 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036565.D

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Instrument :

MSVOA_U

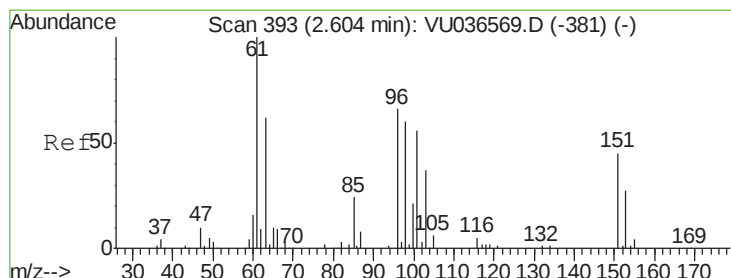
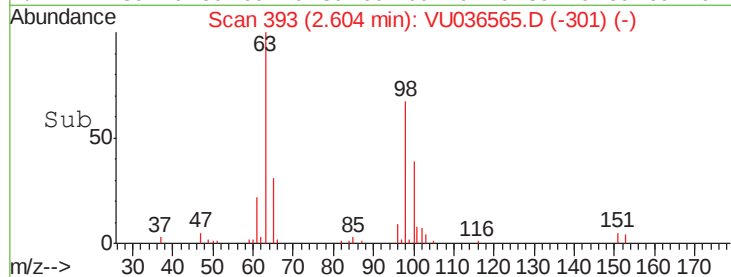
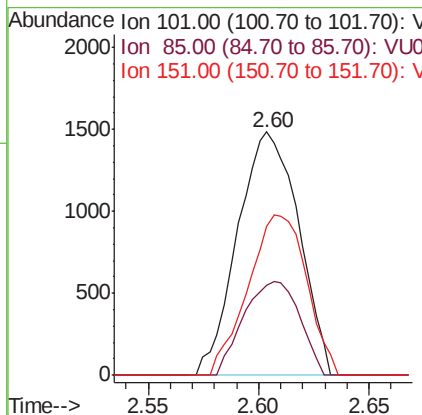
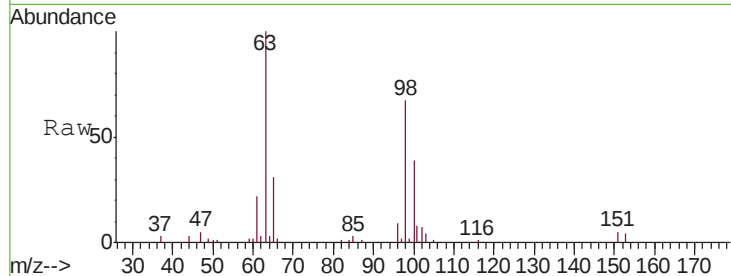
ClientSampleId :

MDL04

Tgt Ion:	101	Resp:	2842
Ion	Ratio	Lower	Upper
101	100		
85	35.3	32.2	48.4
151	63.2	59.2	88.8

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



#12

1,1-Dichloroethene

Concen: 0.289 ug/L

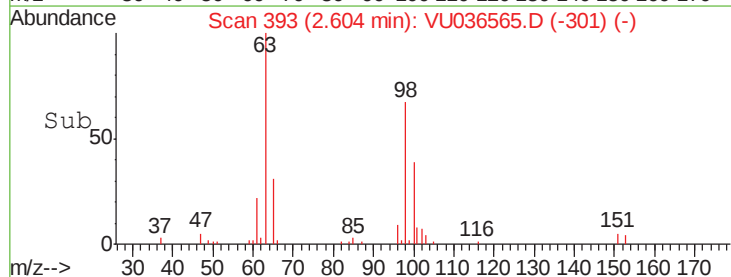
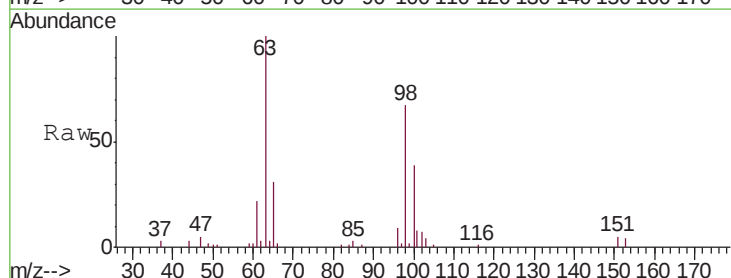
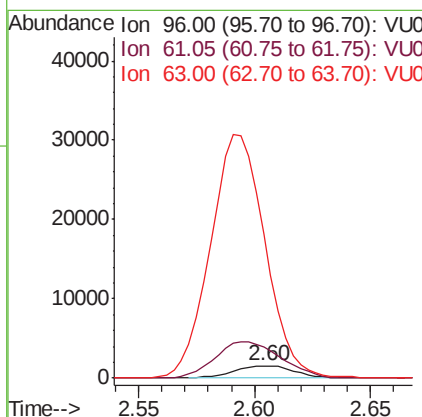
RT: 2.60 min Scan# 393

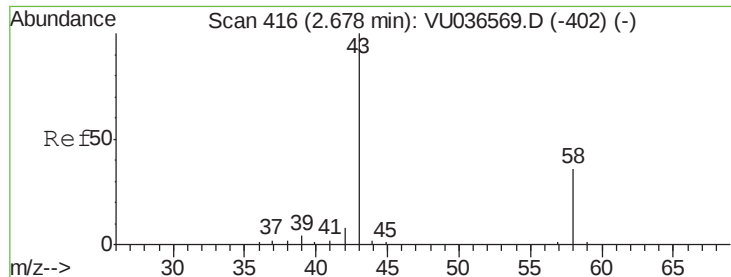
Delta R.T. -0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Tgt Ion:	96	Resp:	2725
Ion	Ratio	Lower	Upper
96	100		
61	252.6	108.2	201.0#
63	1159.6	72.0	133.8#





#13

Acetone

Concen: 4.619 ug/L

RT: 2.67 min Scan# 415

Delta R.T. -0.01 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 43 Resp: 6588

Ion Ratio Lower Upper

43 100

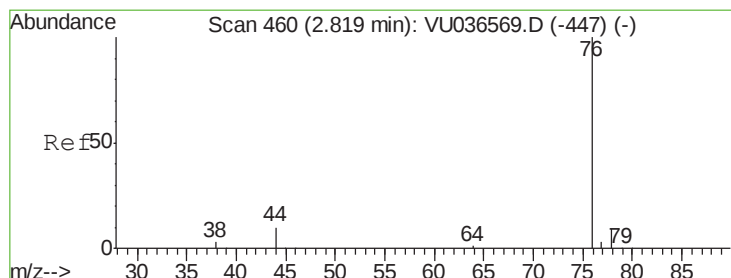
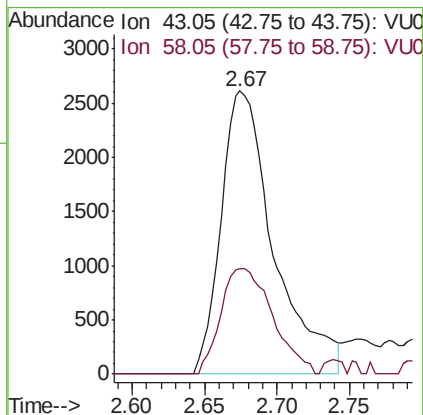
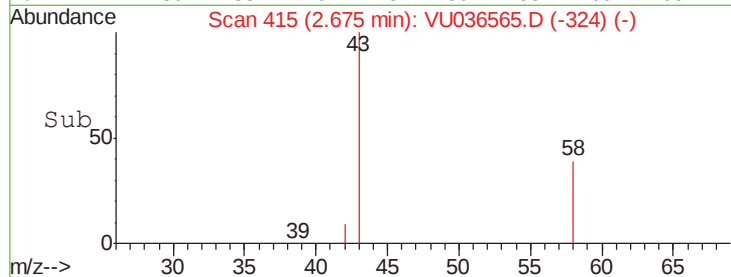
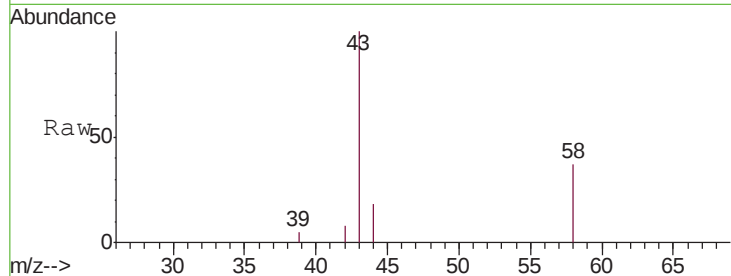
58 36.7 0.0 74.0

Manual Integrations

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#14

Carbon disulfide

Concen: 0.247 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036565.D

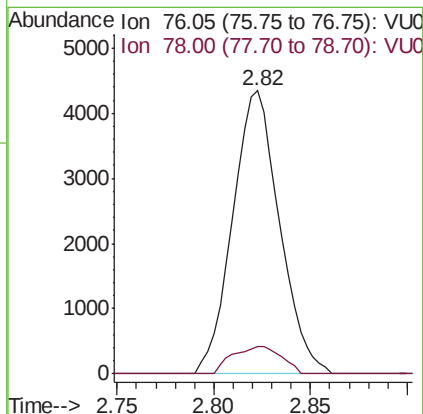
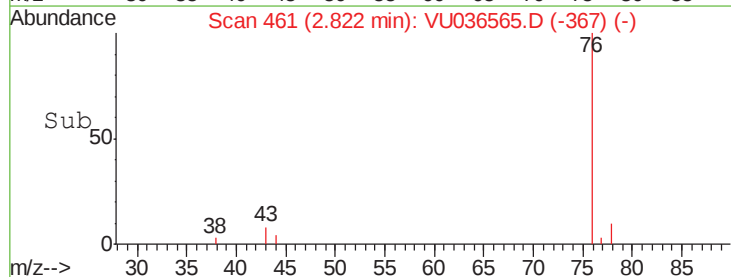
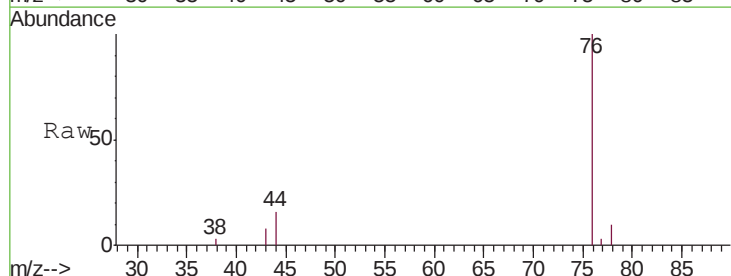
Acq: 27 Jan 2020 13:51

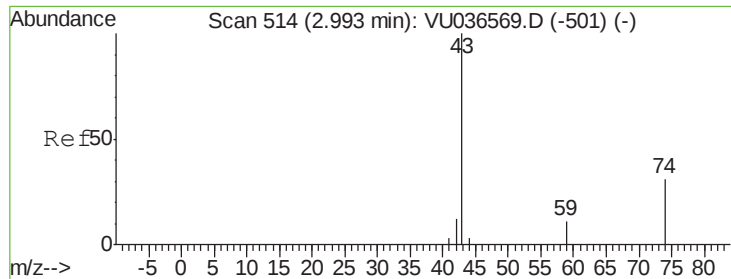
Tgt Ion: 76 Resp: 7329

Ion Ratio Lower Upper

76 100

78 9.5 7.5 11.3





#15

Methyl Acetate

Concen: 0.235 ug/L

RT: 3.00 min Scan# 515

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 43 Resp: 856

Ion Ratio Lower Upper

43 100

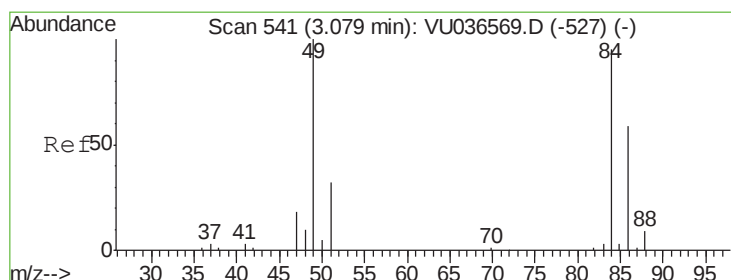
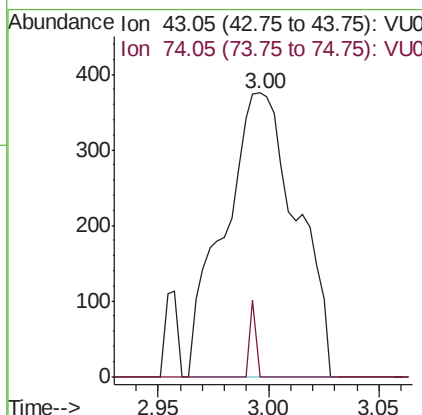
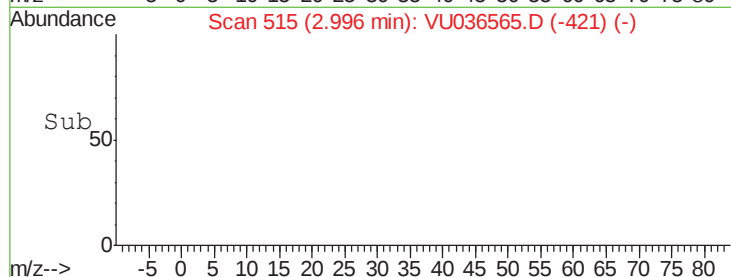
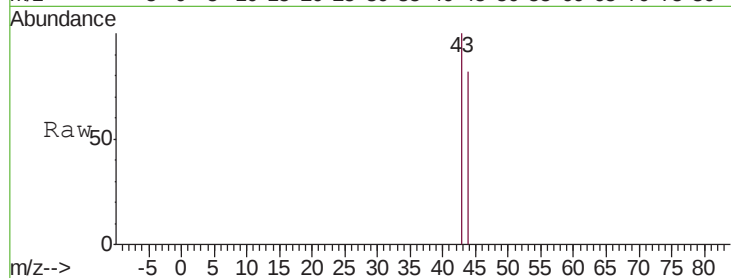
74 2.2 22.7 34.1#

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#16

Methylene chloride

Concen: 0.366 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

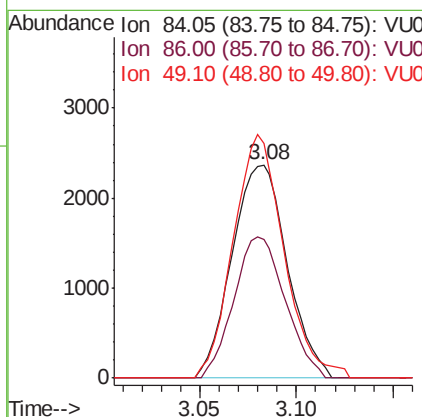
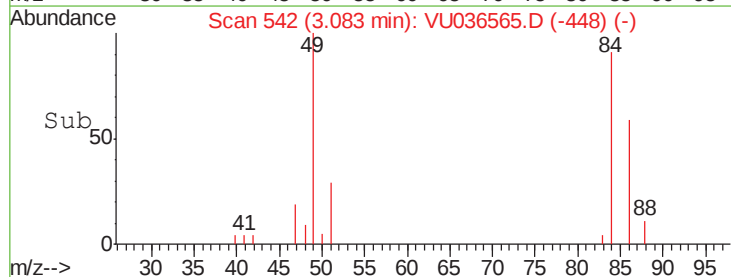
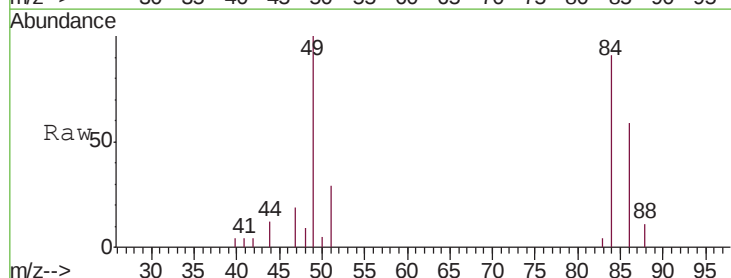
Tgt Ion: 84 Resp: 4695

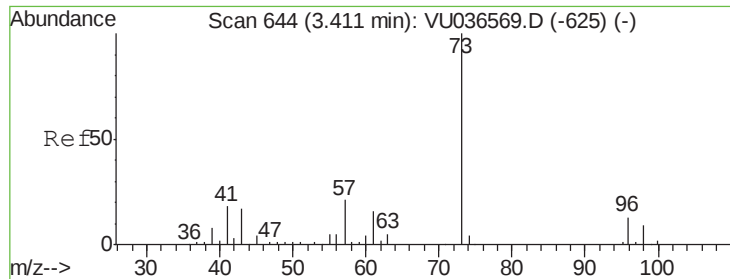
Ion Ratio Lower Upper

84 100

86 65.1 44.8 83.2

49 109.8 74.8 139.0





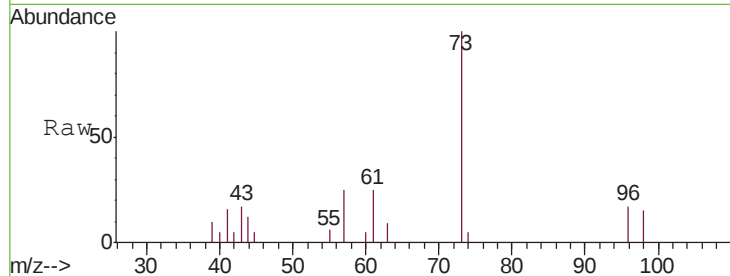
#17
Methyl tert-butyl Ether
Concen: 0.245 ug/L
RT: 3.41 min Scan# 644
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampled :
MDL04

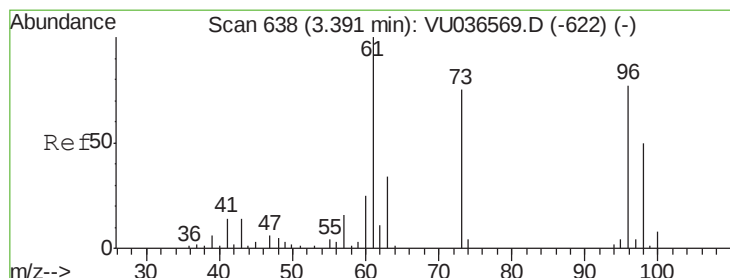
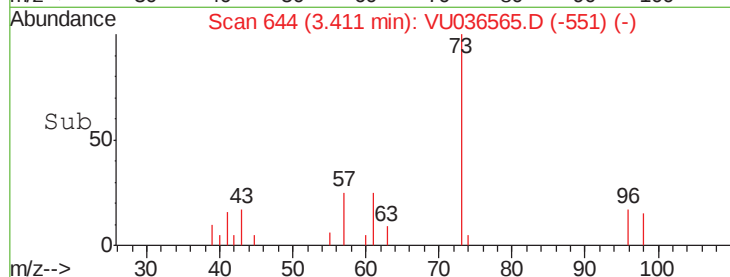
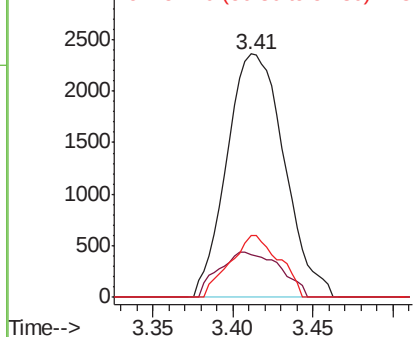
Tgt Ion: 73 Resp: 5808
Ion Ratio Lower Upper
73 100
43 19.9 14.6 21.8
57 21.7 17.0 25.6

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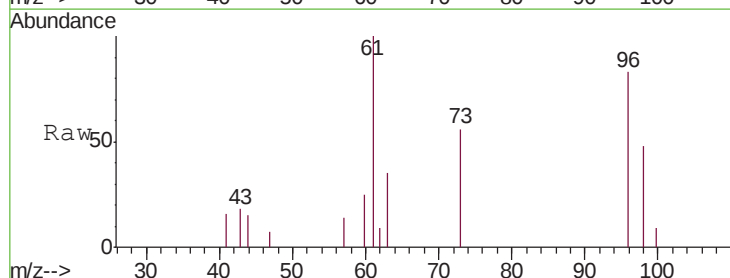


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

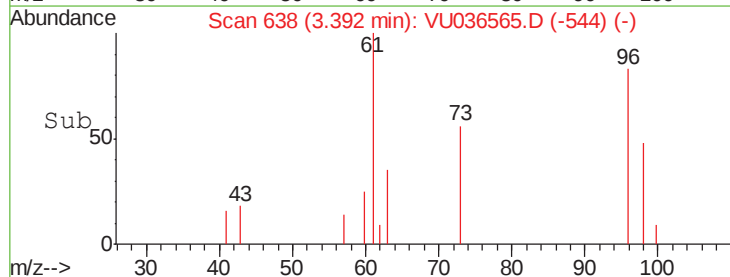
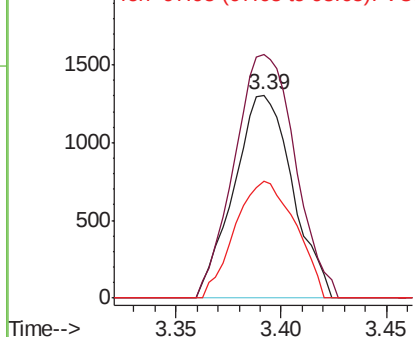


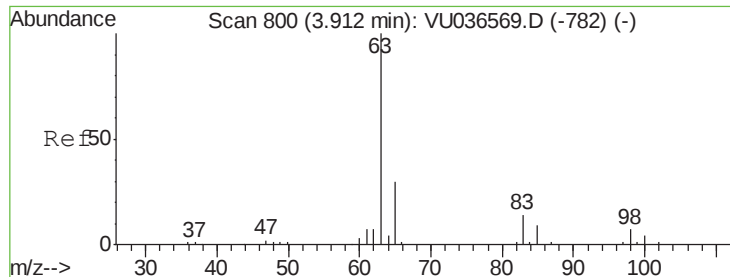
#18
trans-1,2-Dichloroethene
Concen: 0.248 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion: 96 Resp: 2519
Ion Ratio Lower Upper
96 100
61 120.1 93.1 172.9
98 57.5 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





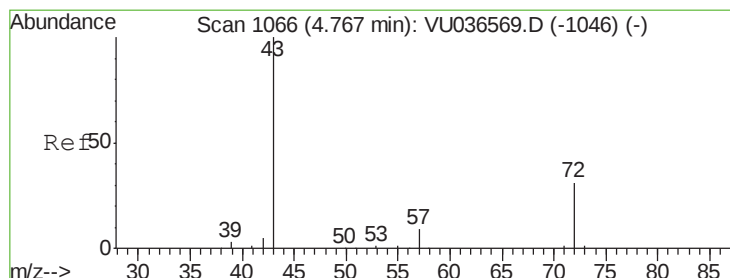
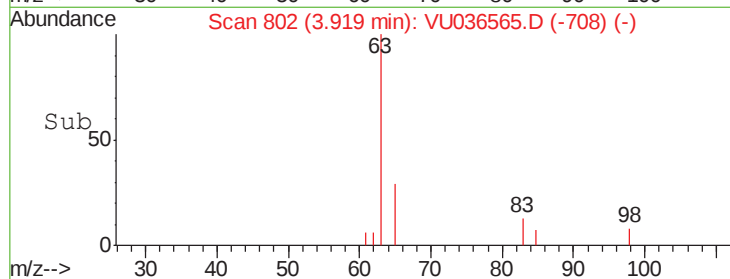
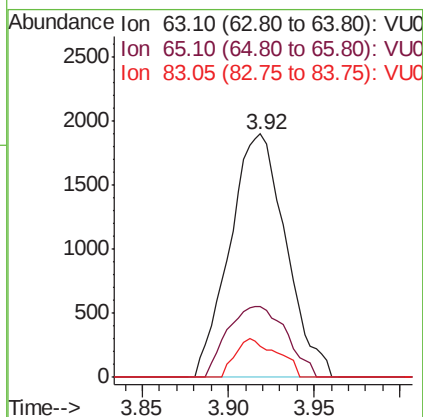
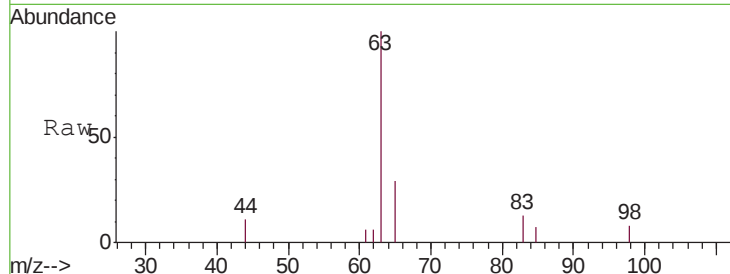
#19
1,1-Dichloroethane
Concen: 0.243 ug/L
RT: 3.92 min Scan# 802
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 63 Resp: 4291
Ion Ratio Lower Upper
63 100
65 29.2 21.8 40.6
83 12.5 9.8 18.2

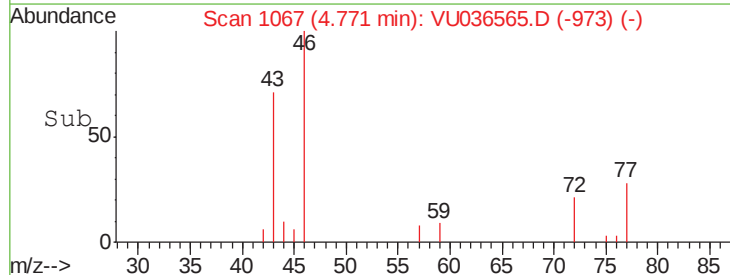
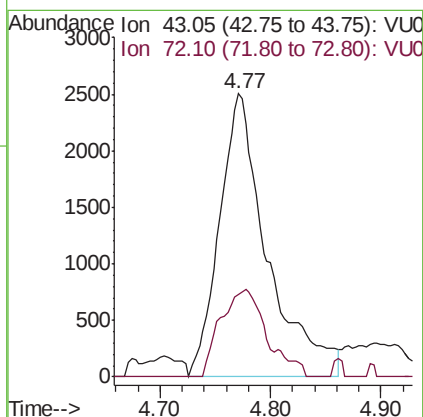
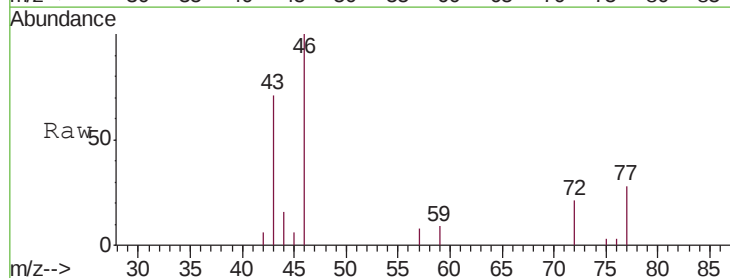
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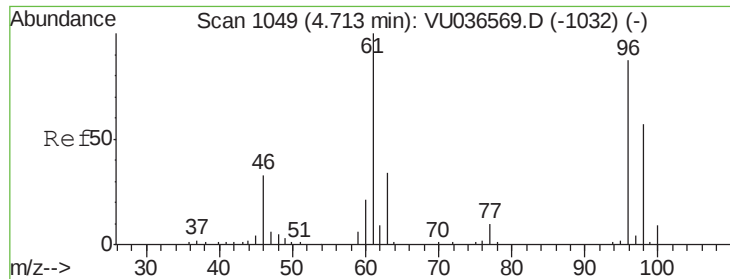
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#21
2-Butanone
Concen: 3.254 ug/L
RT: 4.77 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion: 43 Resp: 7506
Ion Ratio Lower Upper
43 100
72 30.1 15.4 46.4





#22

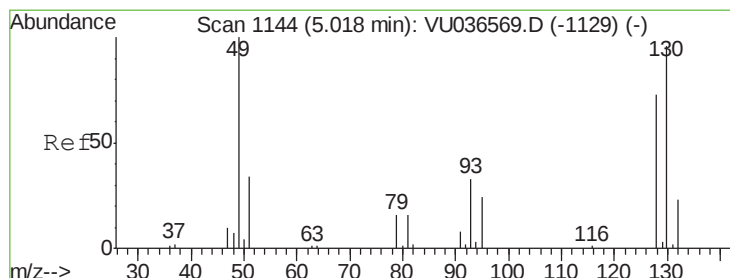
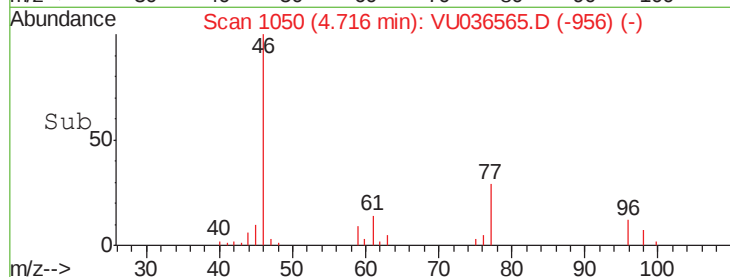
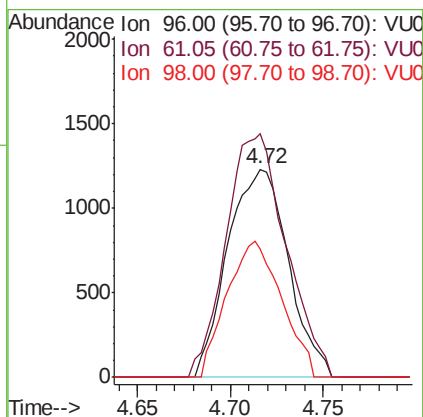
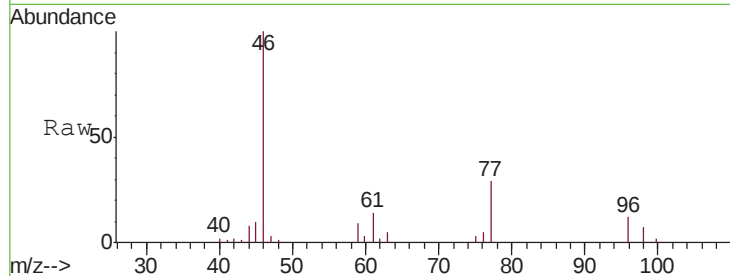
cis-1,2-Dichloroethene
Concen: 0.247 ug/L
RT: 4.72 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 96 Resp: 2792
Ion Ratio Lower Upper
96 100
61 117.1 83.0 154.1
98 61.7 43.8 81.3

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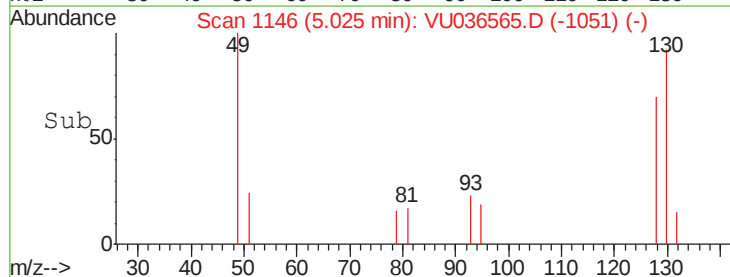
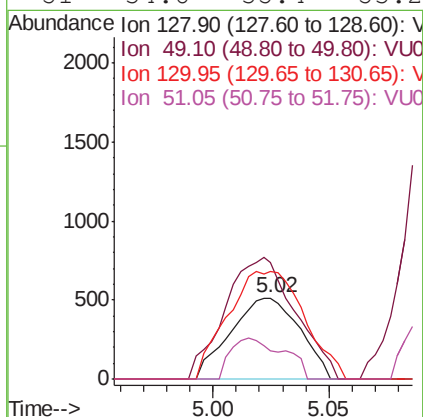
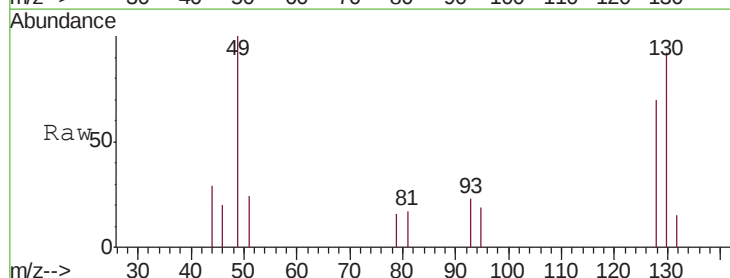
MMDadoda
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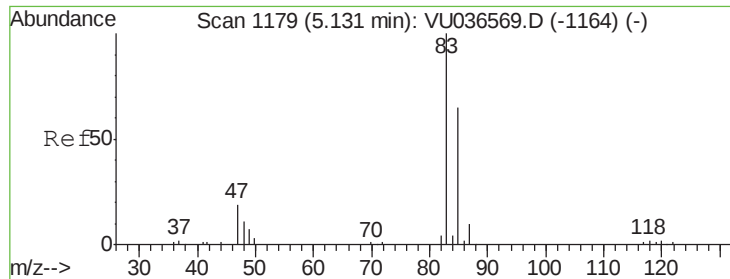


#23

Bromochloromethane
Concen: 0.223 ug/L
RT: 5.02 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion: 128 Resp: 1061
Ion Ratio Lower Upper
128 100
49 143.2 98.6 183.2
130 132.3 89.1 165.5
51 34.8 35.4 53.2#





#25

Chloroform

Concen: 0.283 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 83 Resp: 4999

Ion Ratio Lower Upper

83 100

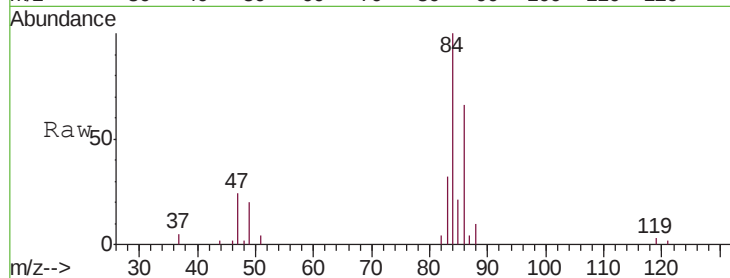
85 64.7 45.7 84.9

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Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

2500

2000

1500

1000

500

0

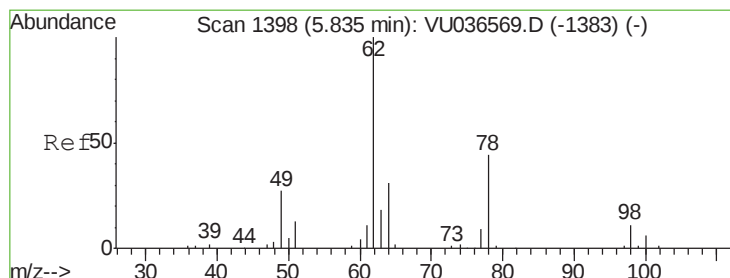
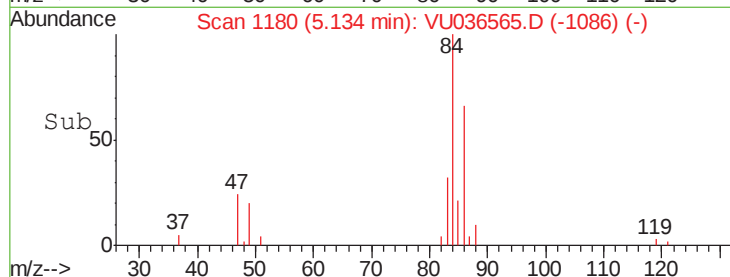
5.10

5.13

5.15

5.20

Time-->



#27

1,2-Dichloroethane

Concen: 0.252 ug/L

RT: 5.84 min Scan# 1400

Delta R.T. 0.01 min

Lab File: VU036565.D

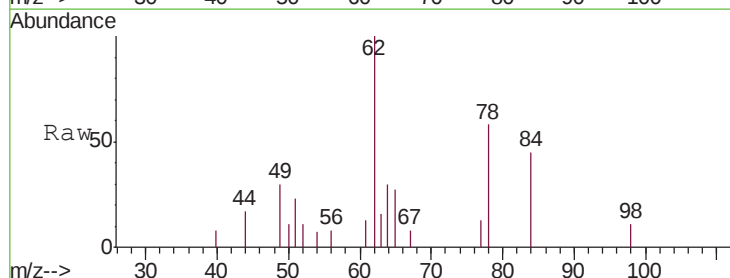
Acq: 27 Jan 2020 13:51

Tgt Ion: 62 Resp: 2786

Ion Ratio Lower Upper

62 100

98 10.9 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

1500

1000

500

0

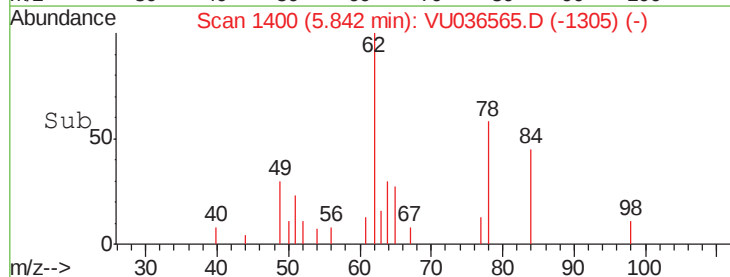
5.80

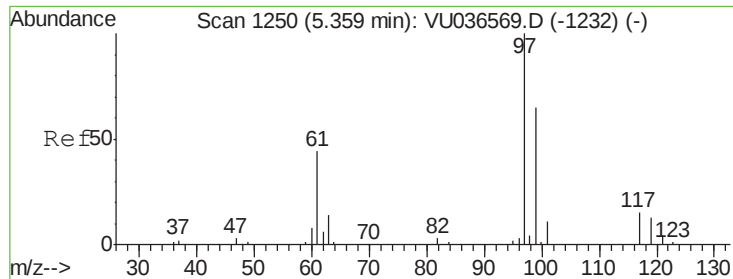
5.84

5.85

5.90

Time-->





#29

1,1,1-Trichloroethane

Concen: 0.248 ug/L

RT: 5.36 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 97 Resp: 3684

Ion Ratio Lower Upper

97 100

99 60.0 52.0 78.0

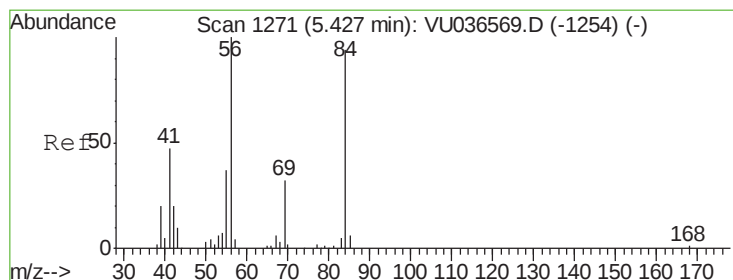
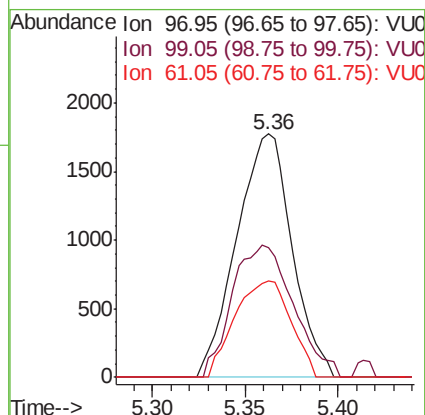
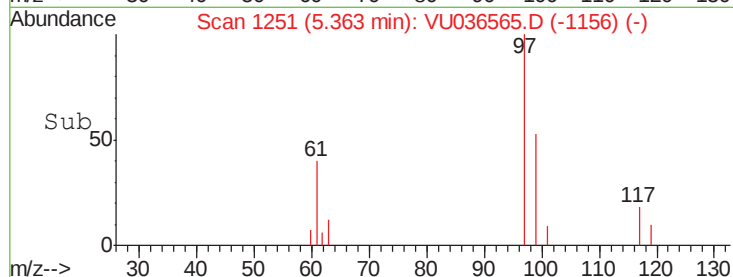
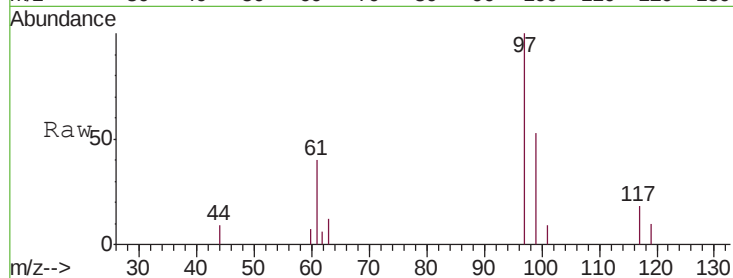
61 40.1 35.6 53.4

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#30

Cyclohexane

Concen: 0.236 ug/L

RT: 5.43 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

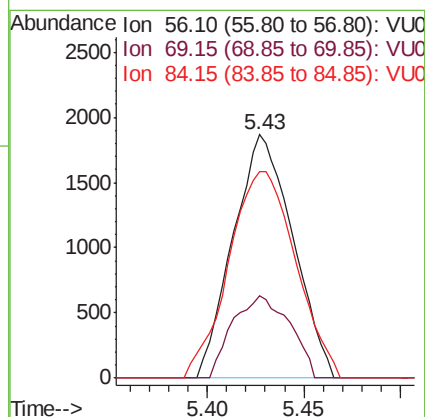
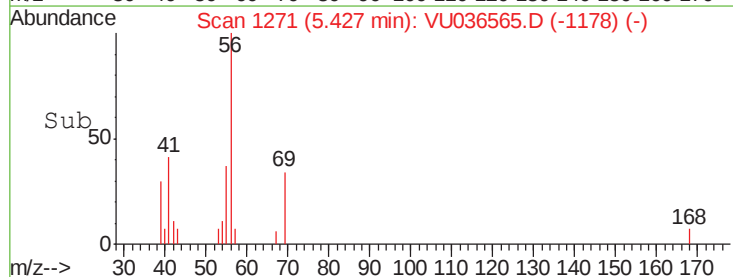
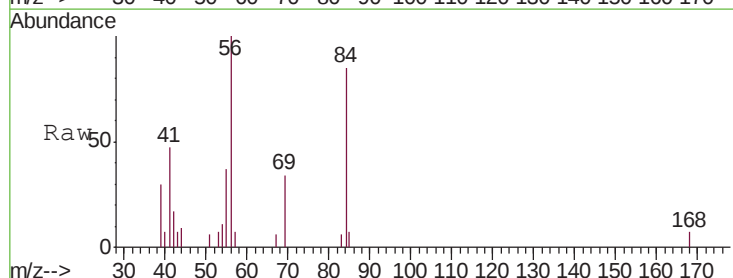
Tgt Ion: 56 Resp: 4002

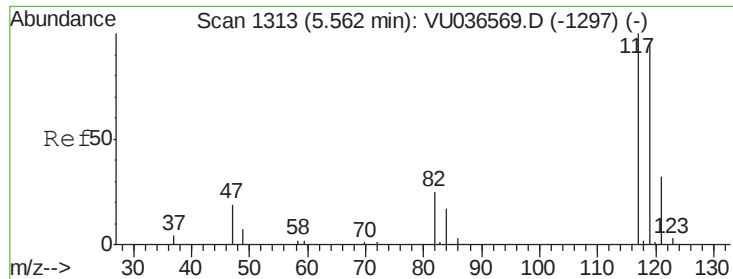
Ion Ratio Lower Upper

56 100

69 32.3 25.7 38.5

84 94.9 75.3 112.9





#31

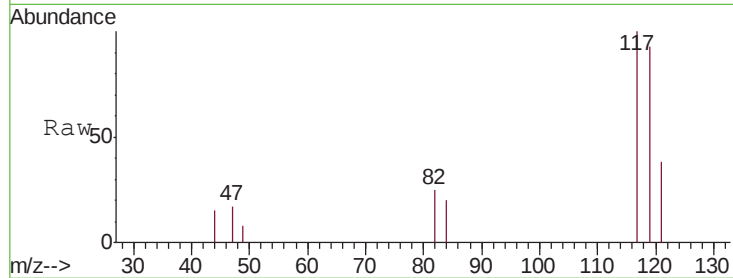
Carbon tetrachloride
Concen: 0.219 ug/L
RT: 5.57 min Scan# 1314
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampleId :
MDL04

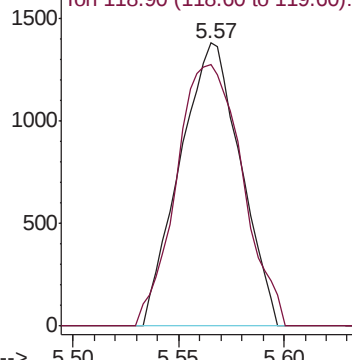
Tgt Ion:117 Resp: 2759
Ion Ratio Lower Upper
117 100
119 100.8 76.3 114.5

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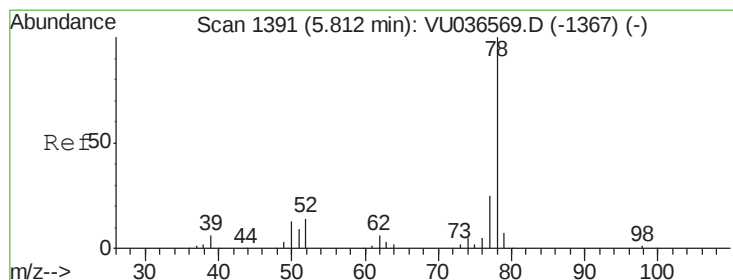
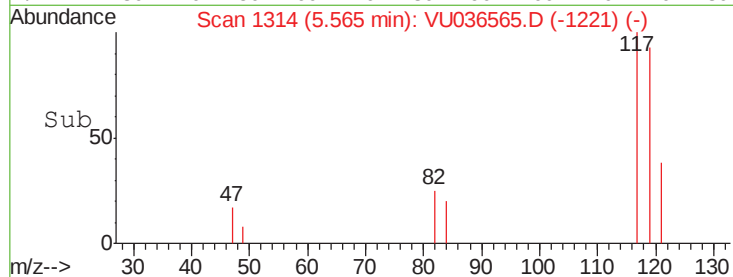
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Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V



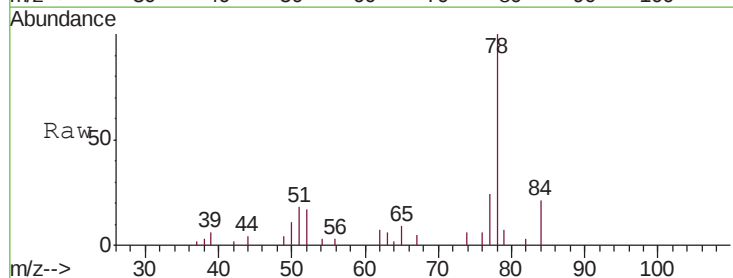
Time-->



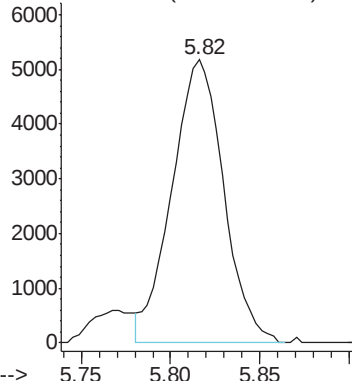
#33

Benzene
Concen: 0.250 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

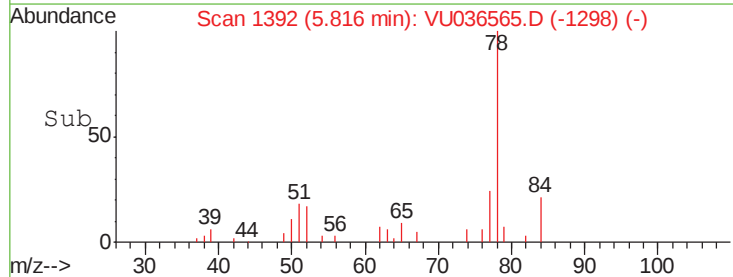
Tgt Ion: 78 Resp: 10464

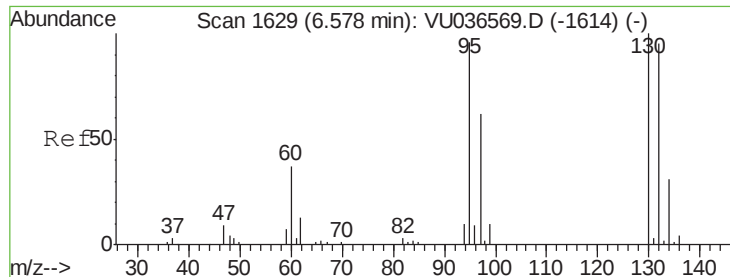


Abundance Ion 78.10 (77.80 to 78.80): VU0



Time-->





#34

Trichloroethene

Concen: 0.246 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 95 Resp: 2726

Ion Ratio Lower Upper

95 100

97 74.6 45.6 84.8

132 101.2 67.7 125.7

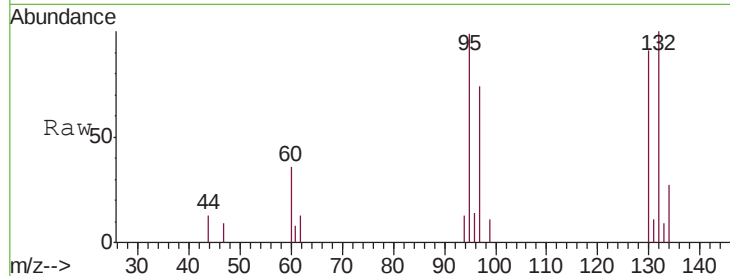
130 91.7 72.2 134.2

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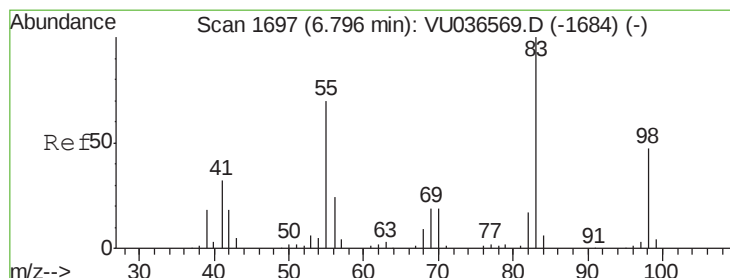
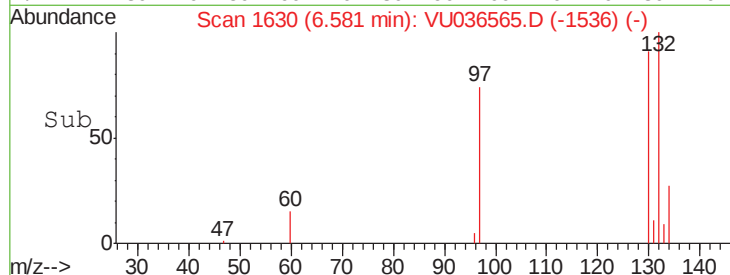
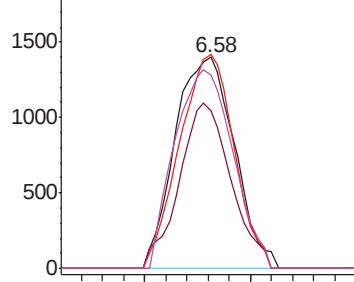


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.252 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

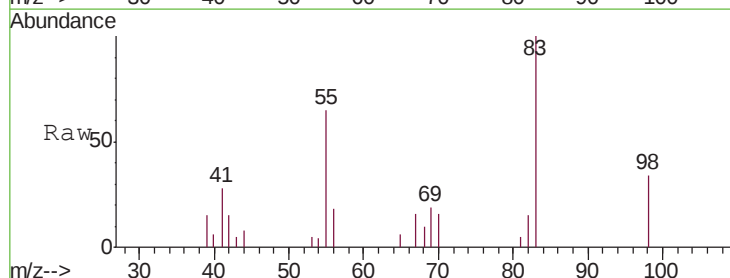
Tgt Ion: 83 Resp: 4775

Ion Ratio Lower Upper

83 100

55 66.9 56.9 85.3

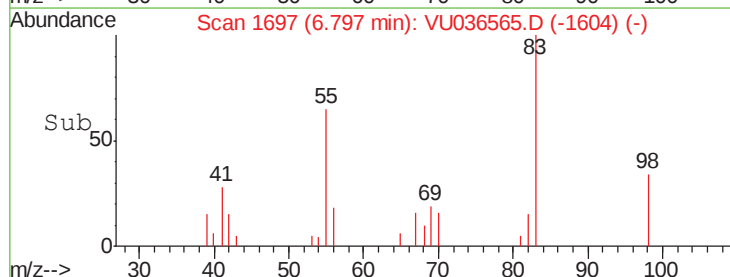
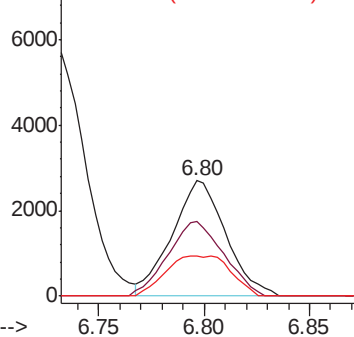
98 41.9 36.9 55.3

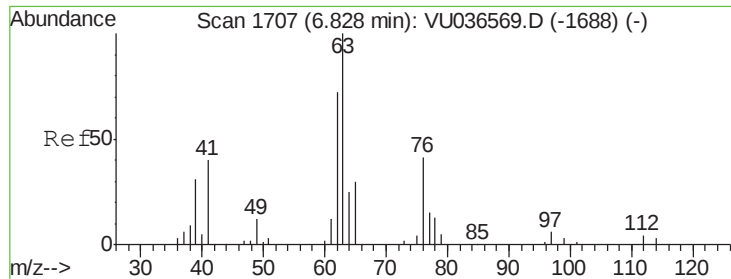


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.251 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 63 Resp: 2603

Ion Ratio Lower Upper

63 100

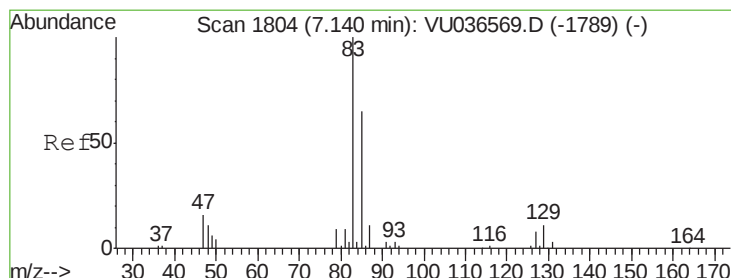
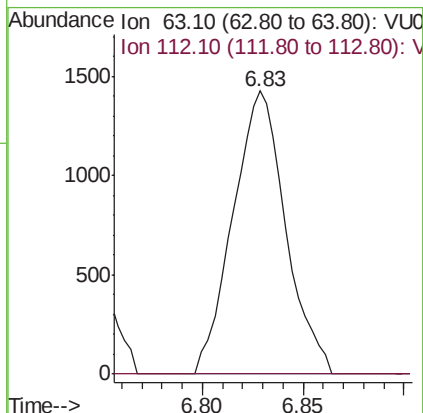
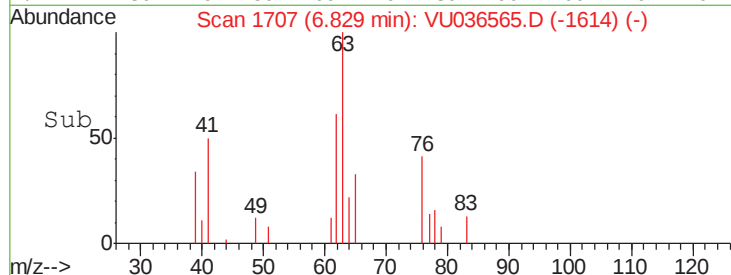
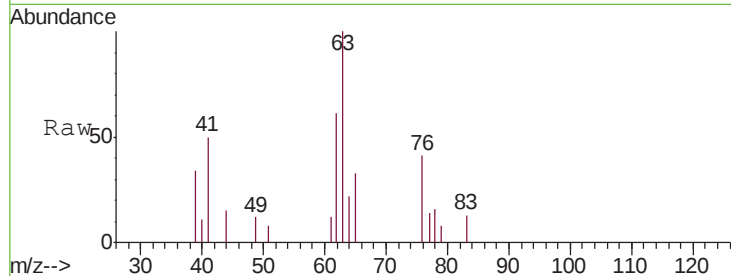
112 0.0 3.3 4.9#

Manual Integrations

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#38

Bromodichloromethane

Concen: 0.237 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

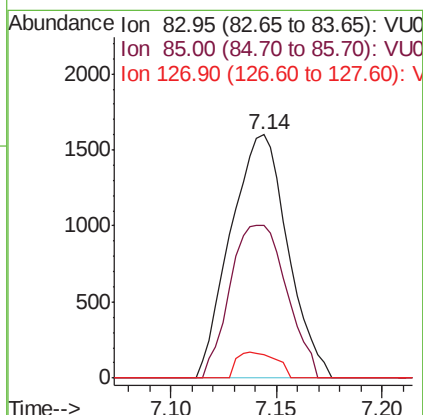
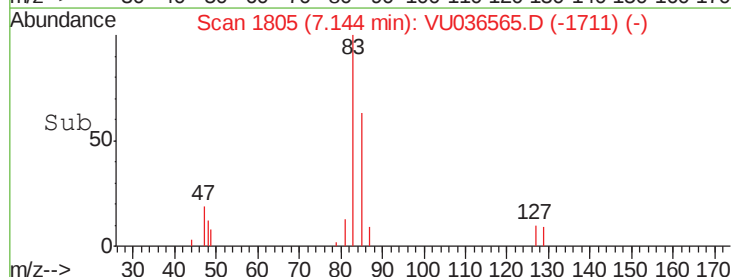
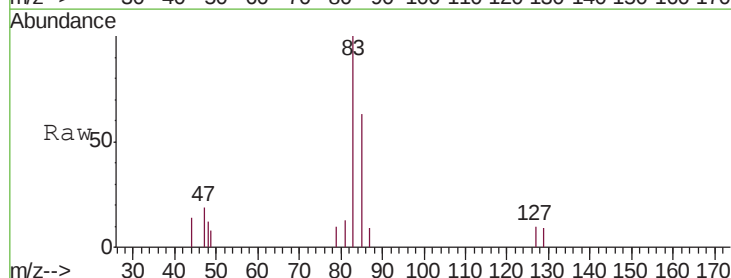
Tgt Ion: 83 Resp: 3013

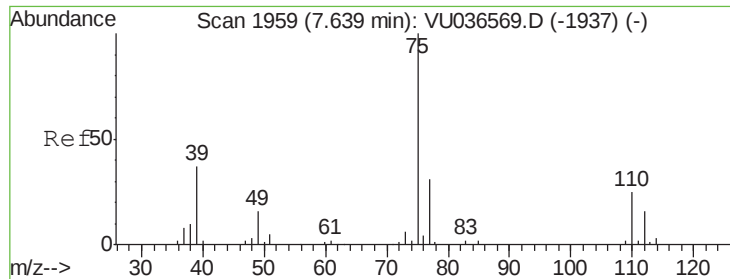
Ion Ratio Lower Upper

83 100

85 62.6 44.7 82.9

127 9.6 7.2 10.8





#39

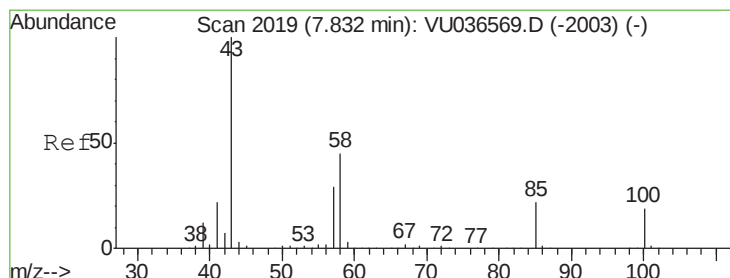
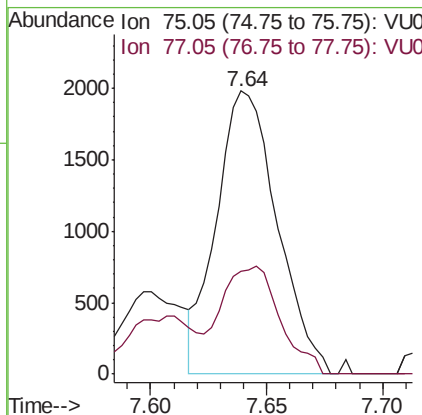
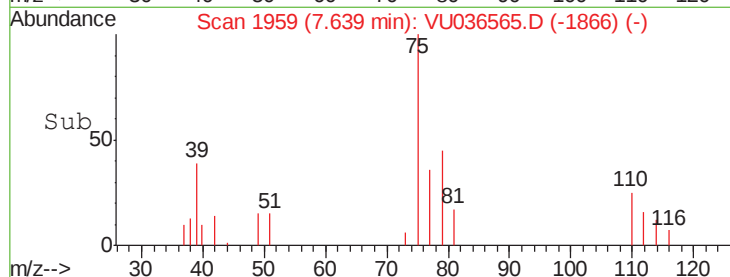
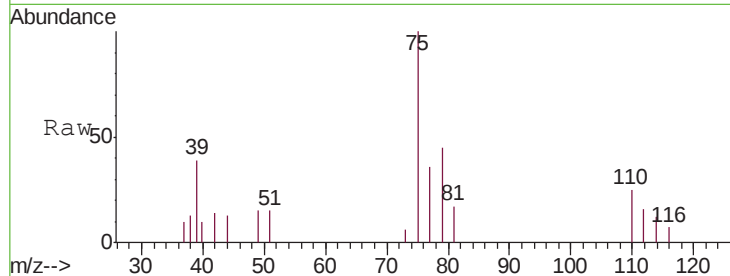
cis-1,3-Dichloropropene
Concen: 0.225 ug/L
RT: 7.64 min Scan# 1959
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 75 Resp: 3606
Ion Ratio Lower Upper
75 100
77 36.1 22.3 41.5

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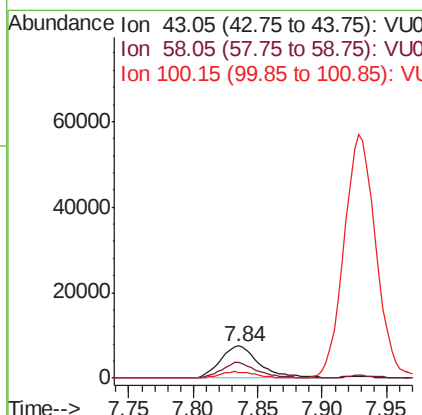
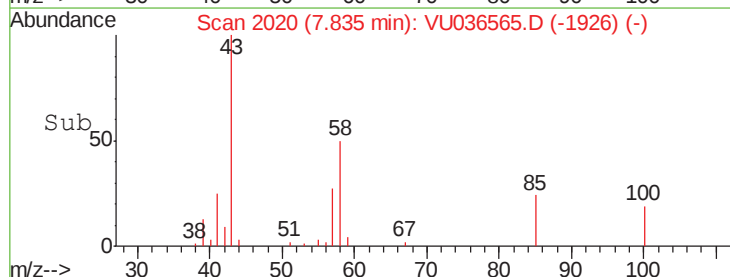
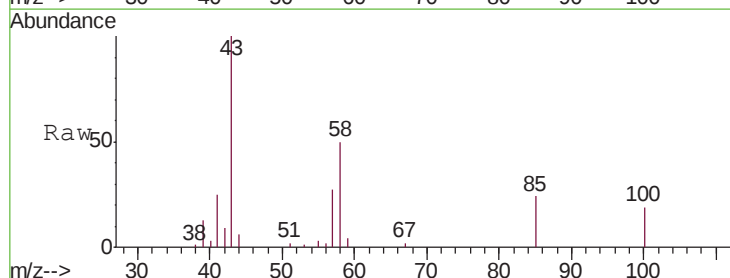
MMDadoda
2/14/2020 12:23:14 PM

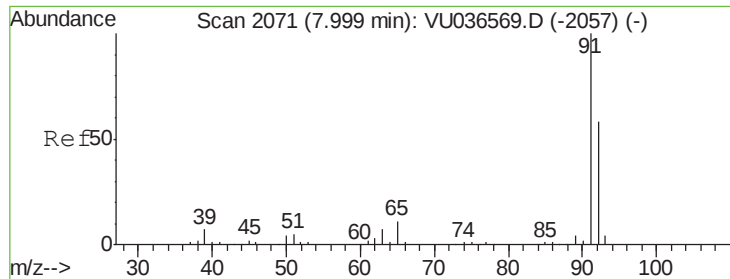


#40

4-Methyl-2-pentanone
Concen: 2.707 ug/L
RT: 7.84 min Scan# 2020
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion: 43 Resp: 15818
Ion Ratio Lower Upper
43 100
58 45.6 35.6 53.4
100 0.0 14.9 22.3#





#42

Toluene

Concen: 0.273 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion: 91 Resp: 12589

Ion Ratio Lower Upper

91 100

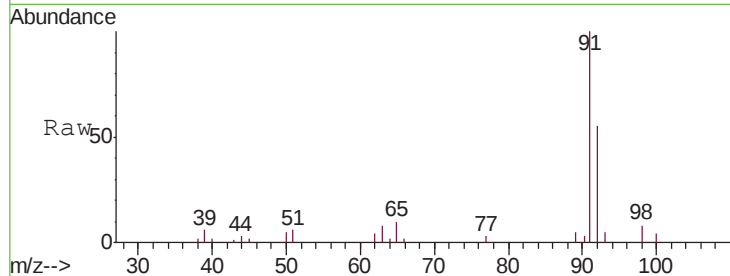
92 55.3 40.6 75.4

Manual Integrations

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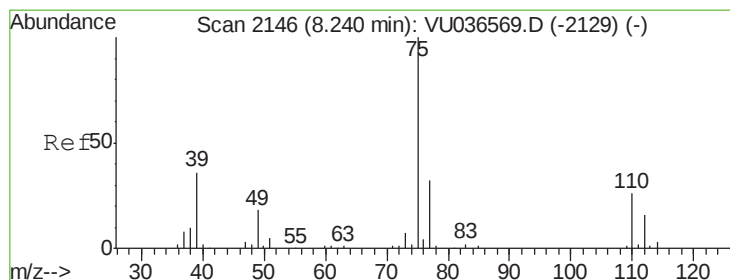
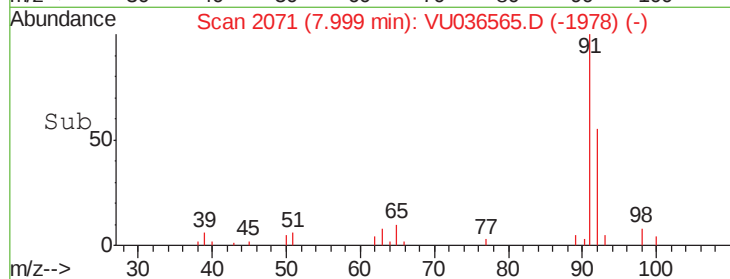
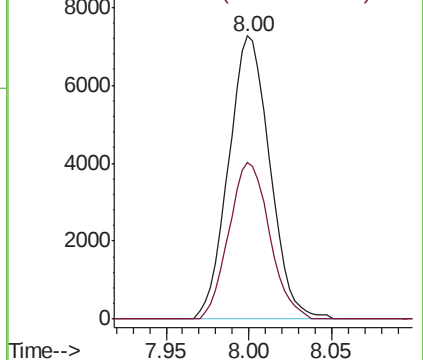
MMDadoda

2/14/2020 12:23:14 PM



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

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



#44

trans-1,3-Dichloropropene

Concen: 0.229 ug/L m

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU036565.D

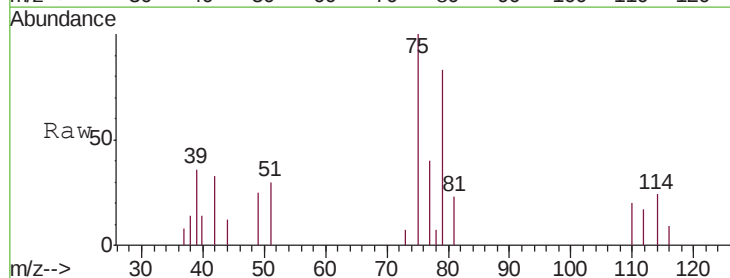
Acq: 27 Jan 2020 13:51

Tgt Ion: 75 Resp: 2824

Ion Ratio Lower Upper

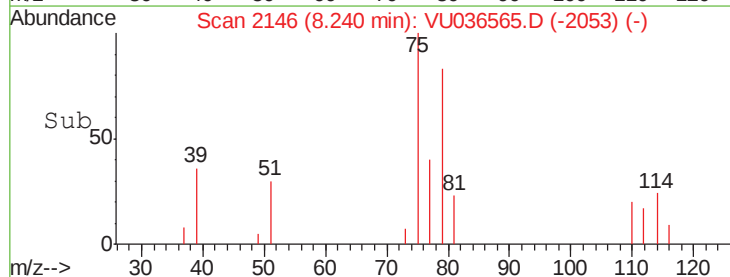
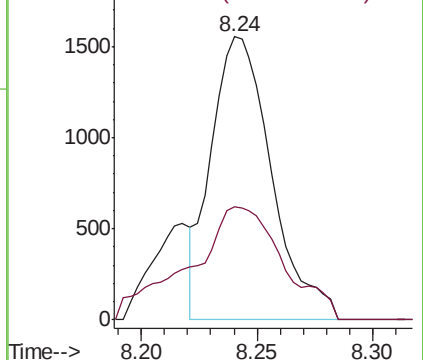
75 100

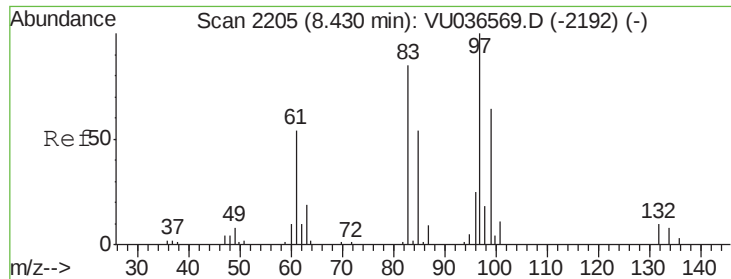
77 40.2 22.8 42.4



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

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





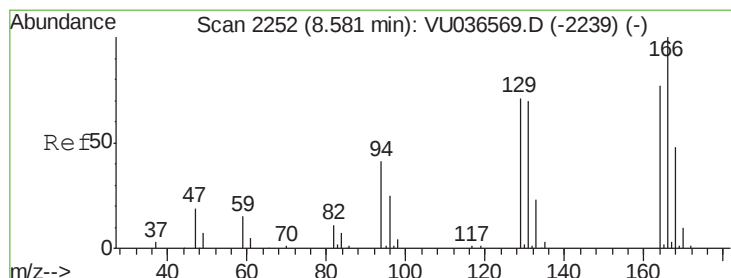
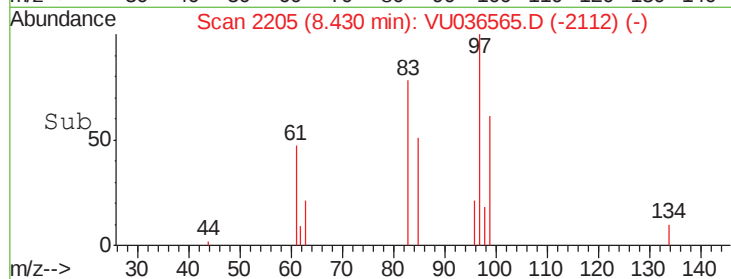
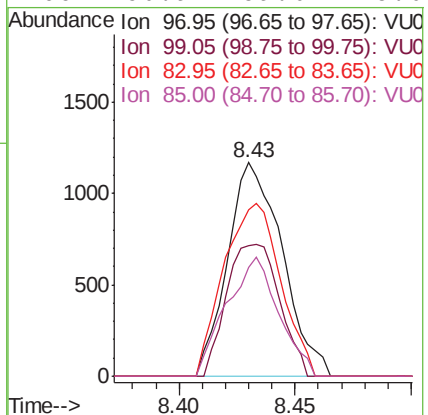
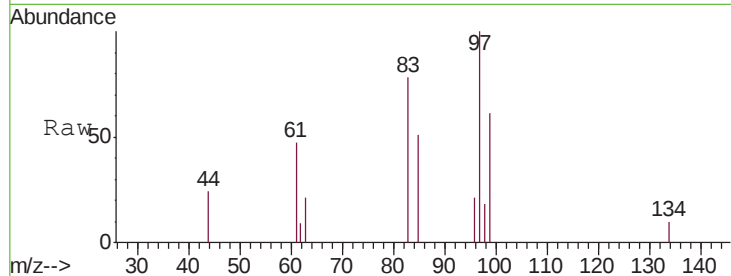
#45
1,1,2-Trichloroethane
Concen: 0.249 ug/L
RT: 8.43 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion: 97 Resp: 1914
Ion Ratio Lower Upper
97 100
99 61.1 42.1 78.3
83 77.8 58.4 108.6
85 50.9 39.6 73.6

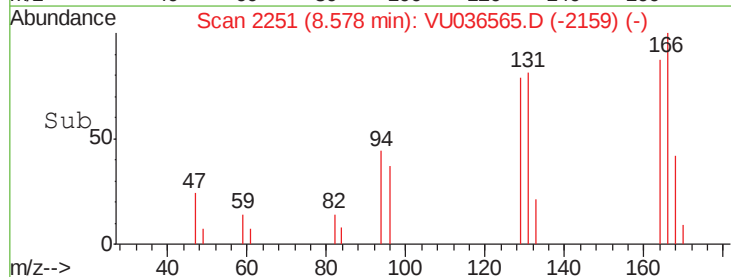
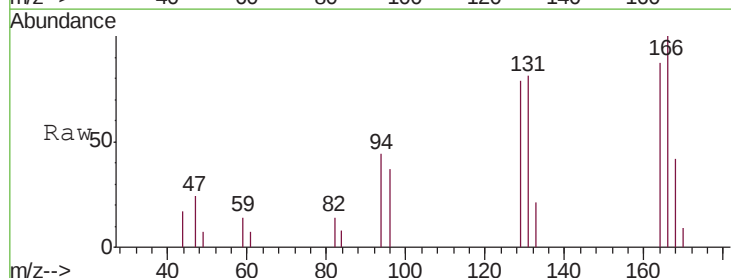
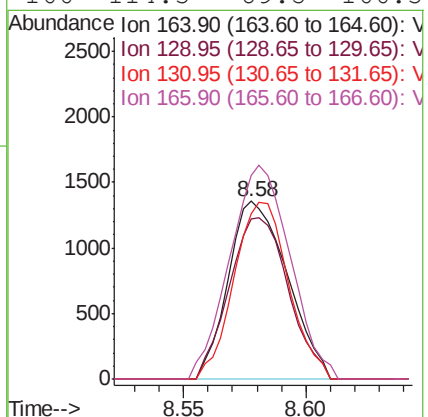
Manual Integrations
APPROVED

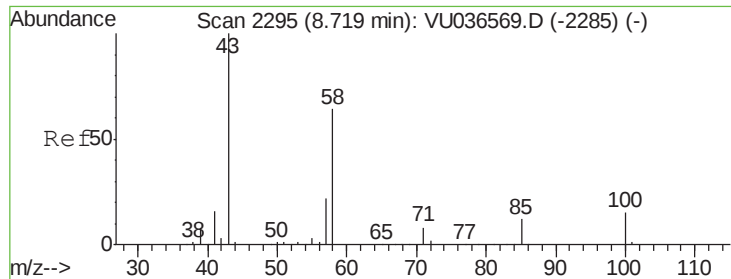
MMDadoda
2/14/2020 12:23:14 PM



#47
Tetrachloroethene
Concen: 0.253 ug/L
RT: 8.58 min Scan# 2251
Delta R.T. -0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion: 164 Resp: 2282
Ion Ratio Lower Upper
164 100
129 90.0 64.7 120.1
131 93.1 64.0 118.8
166 114.3 89.5 166.3





#48

2-Hexanone

Concen: 3.107 ug/L

RT: 8.72 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU036565.D

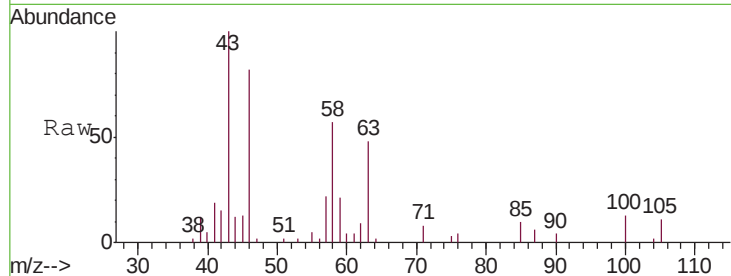
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tgt Ion:	43	Resp:	12526
Ion	Ratio	Lower	Upper
43	100		
58	60.4	50.2	75.2
57	22.9	17.5	26.3
100	11.8	11.5	17.3

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

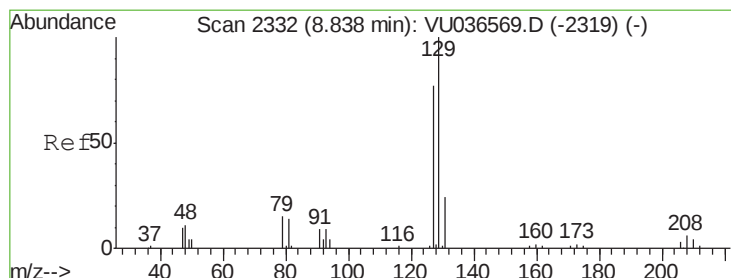
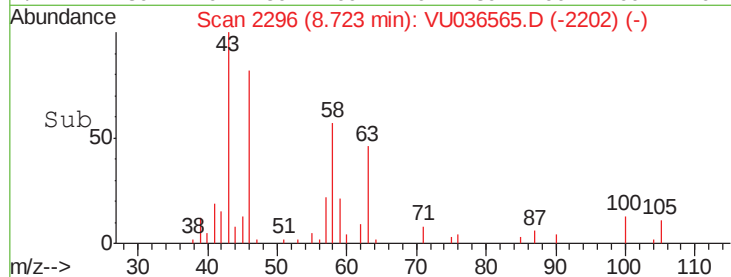
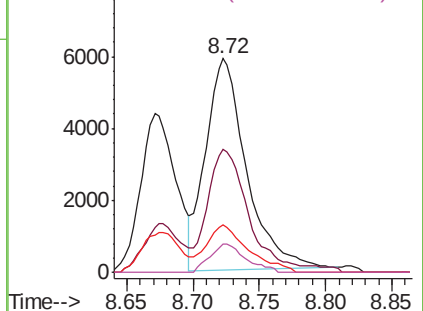


Abundance Ion 43.05 (42.75 to 43.75): VU036565.D (-2296) (-)

Ion 58.05 (57.75 to 58.75): VU036565.D (-2296) (-)

Ion 57.20 (56.90 to 57.90): VU036565.D (-2296) (-)

Ion 100.15 (99.85 to 100.85): VU036565.D (-2296) (-)



#49

Dibromochloromethane

Concen: 0.224 ug/L

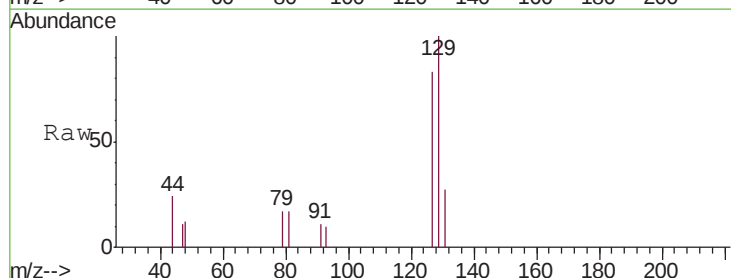
RT: 8.84 min Scan# 2333

Delta R.T. 0.00 min

Lab File: VU036565.D

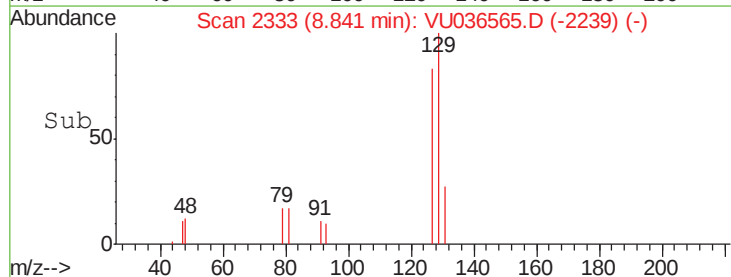
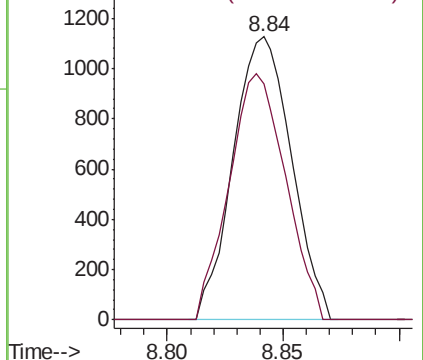
Acq: 27 Jan 2020 13:51

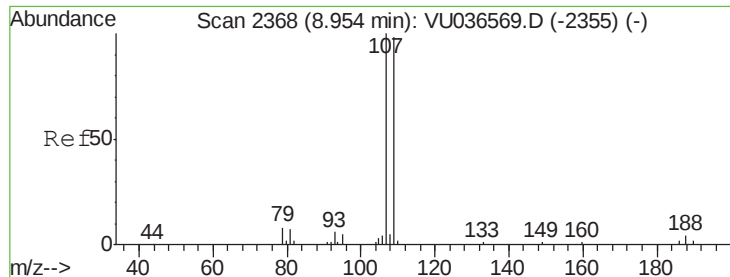
Tgt Ion:	129	Resp:	1968
Ion	Ratio	Lower	Upper
129	100		
127	83.2	54.5	101.3



Abundance Ion 128.95 (128.65 to 129.65): VU036565.D (-2332) (-)

Ion 126.90 (126.60 to 127.60): VU036565.D (-2332) (-)





#50

1,2-Dibromoethane

Concen: 0.238 ug/L

RT: 8.96 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

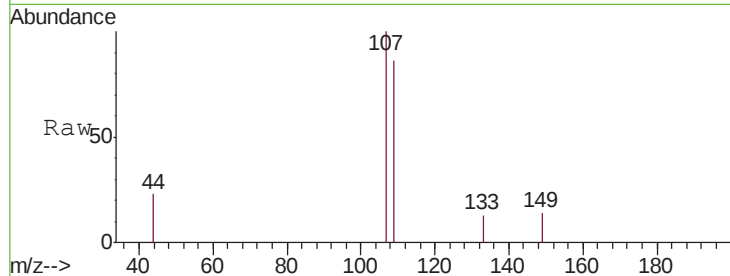
MDL04

Tgt Ion:107 Resp: 1779

Ion	Ratio	Lower	Upper
107	100		
109	86.1	64.5	119.9
188	0.0	2.8	4.2#

Manual Integrations
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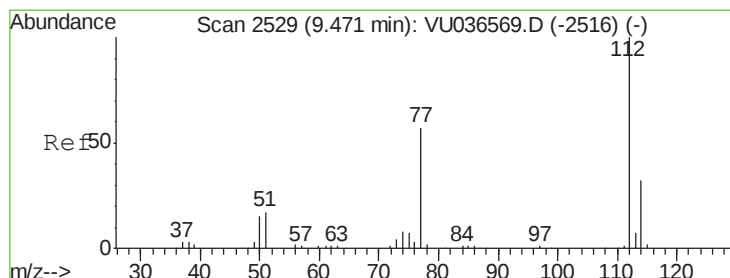
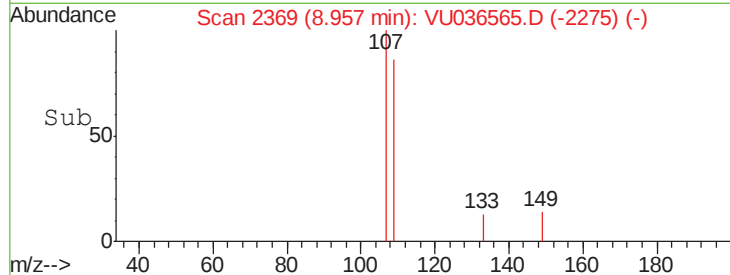
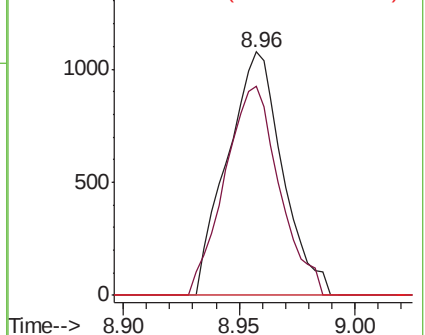
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Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 0.268 ug/L

RT: 9.47 min Scan# 2530

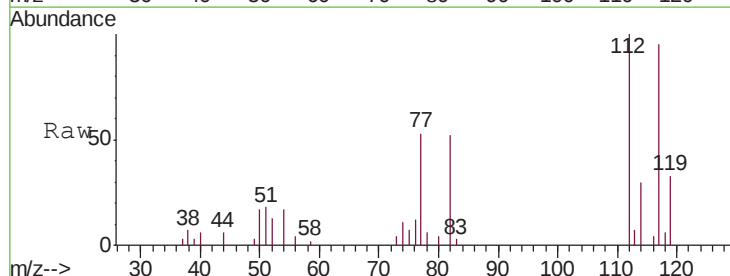
Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Tgt Ion:112 Resp: 7946

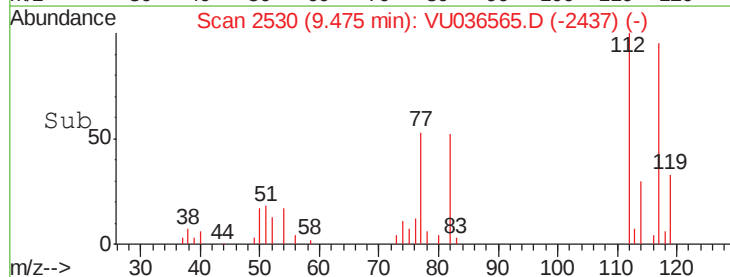
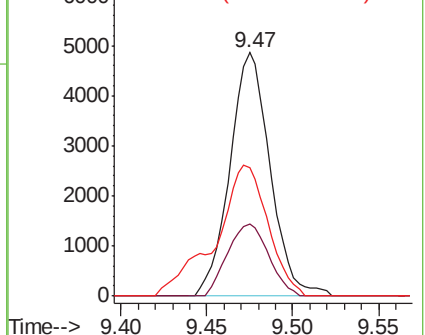
Ion	Ratio	Lower	Upper
112	100		
114	29.5	23.2	43.2
77	52.7	45.9	68.9

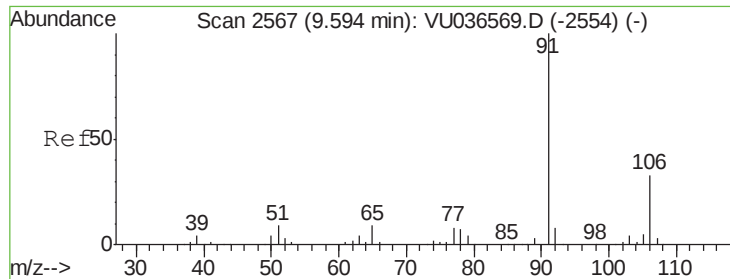


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 0.248 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion: 91 Resp: 12451

Ion Ratio Lower Upper

91 100

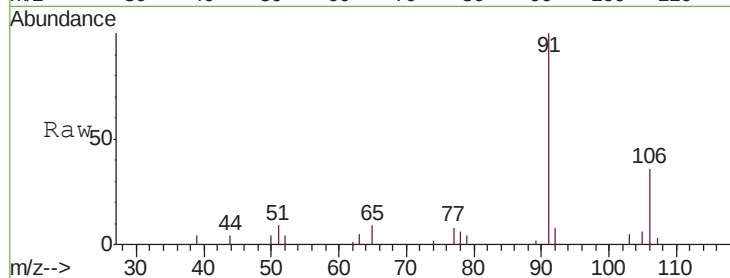
106 35.8 22.3 41.3

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

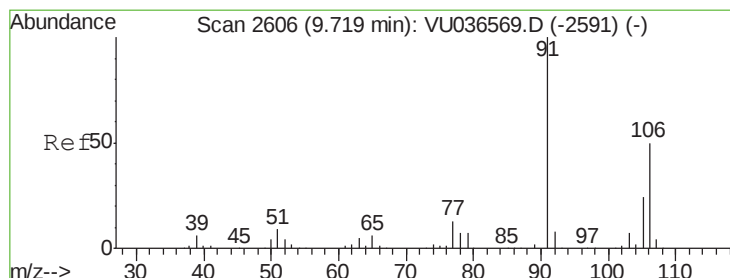
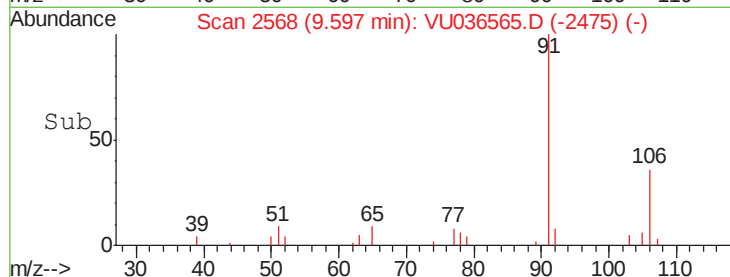
4000

2000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 0.242 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036565.D

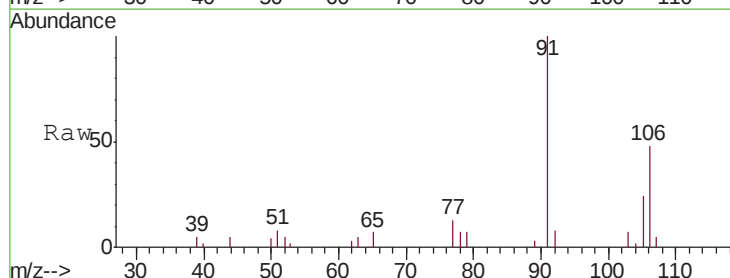
Acq: 27 Jan 2020 13:51

Tgt Ion: 106 Resp: 4716

Ion Ratio Lower Upper

106 100

91 207.9 141.4 262.6



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

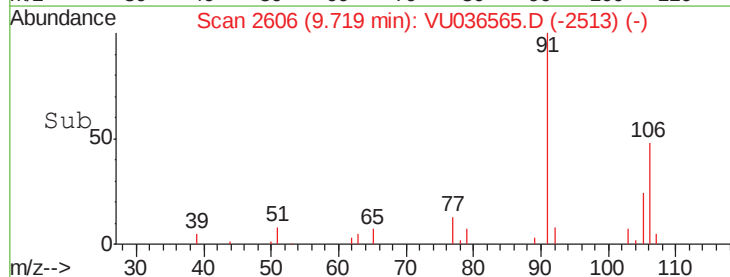
4000

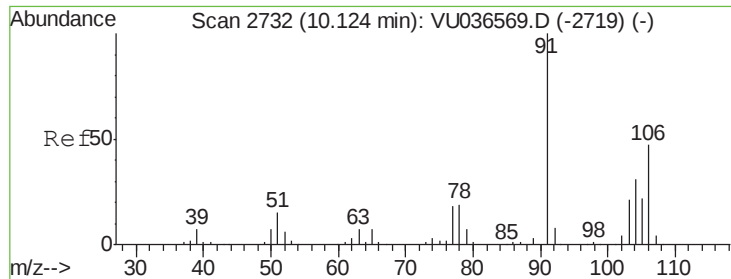
2000

0

9.65 9.70 9.75

Time-->





#54

o-Xylene

Concen: 0.258 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tgt Ion:106 Resp: 4922

Ion Ratio Lower Upper

106 100

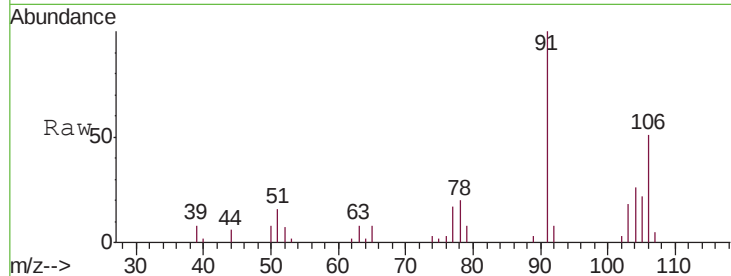
91 195.2 146.2 271.4

Manual Integrations

APPROVED

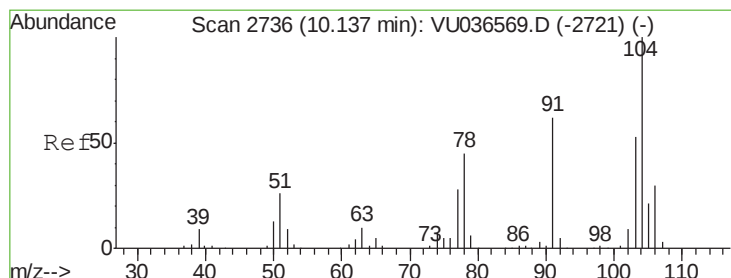
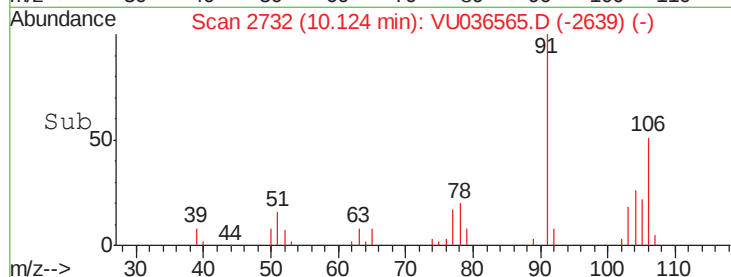
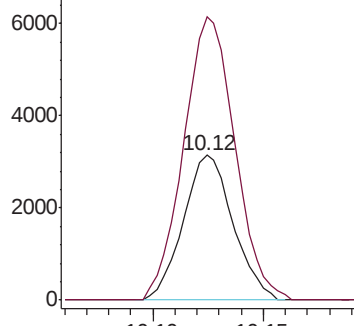
MMDadoda

2/14/2020 12:23:14 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.246 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036565.D

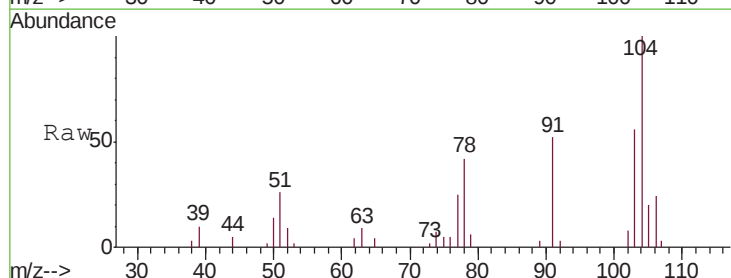
Acq: 27 Jan 2020 13:51

Tgt Ion:104 Resp: 7712

Ion Ratio Lower Upper

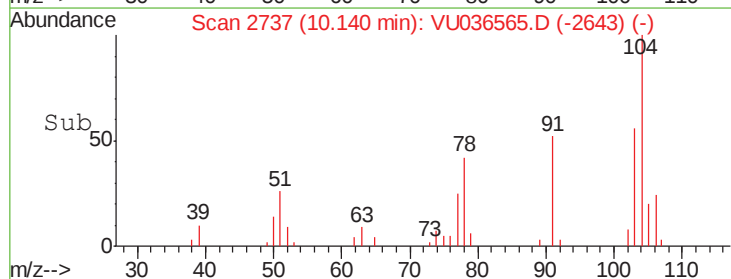
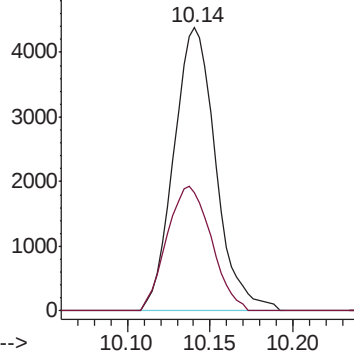
104 100

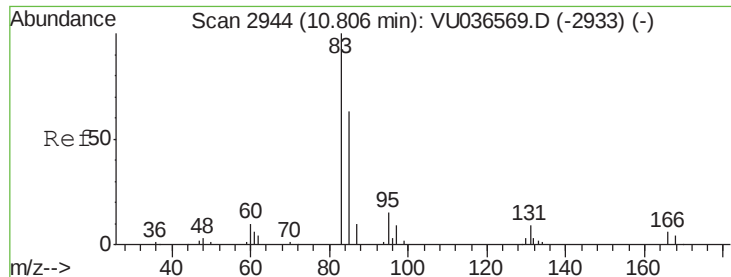
78 41.8 31.9 59.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





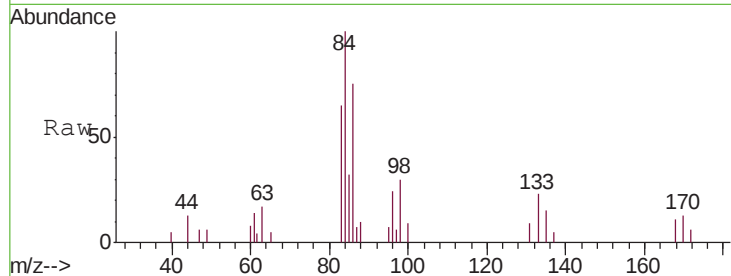
#57
1,1,2,2-Tetrachloroethane
Concen: 0.252 ug/L
RT: 10.81 min Scan# 2944
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampled :
MDL04

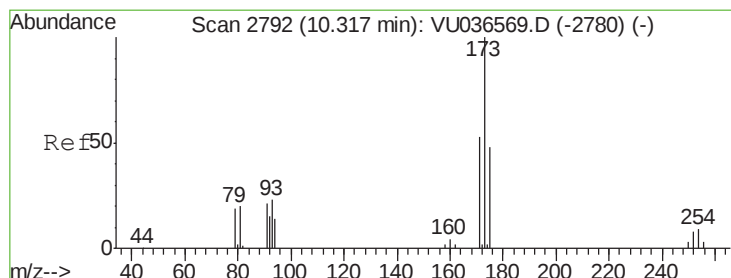
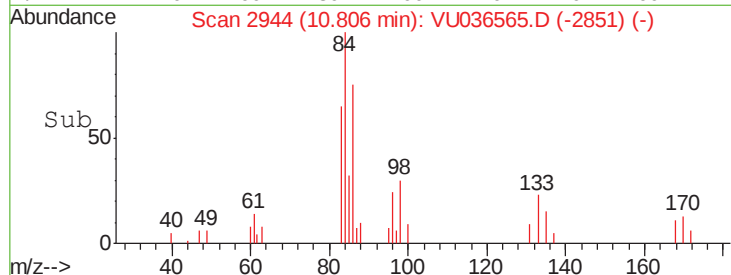
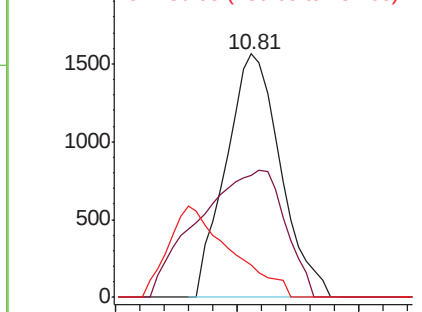
Tgt Ion: 83 Resp: 2427
Ion Ratio Lower Upper
83 100
85 50.0 47.0 87.4
131 13.2 8.1 12.1#

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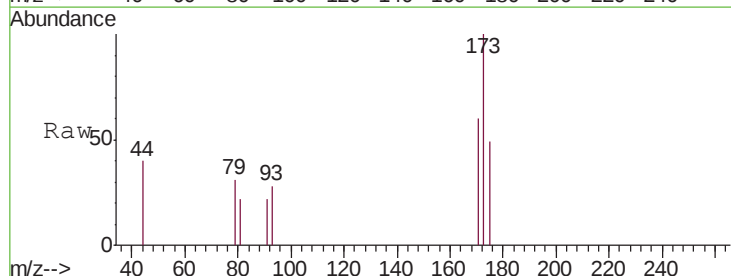


Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 130.95 (130.65 to 131.65): V

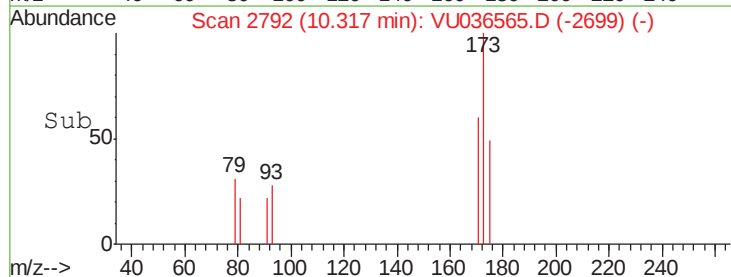
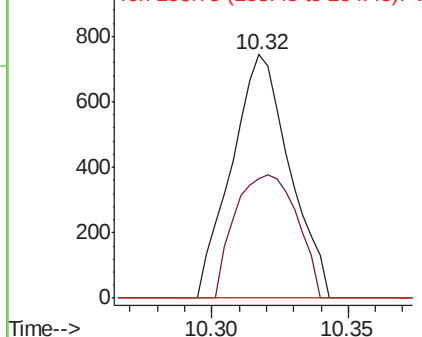


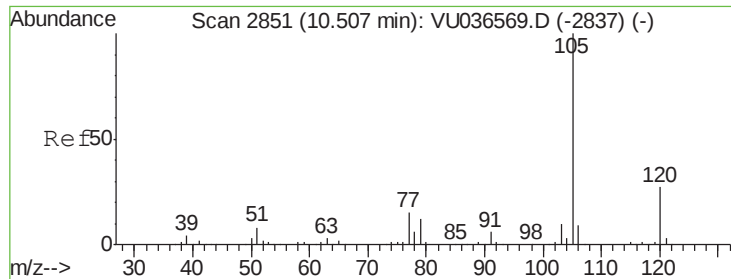
#59
Bromoform
Concen: 0.233 ug/L
RT: 10.32 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion: 173 Resp: 1099
Ion Ratio Lower Upper
173 100
175 54.5 39.0 58.4
254 0.0 6.3 9.5#



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V





#60

Isopropylbenzene

Concen: 0.260 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

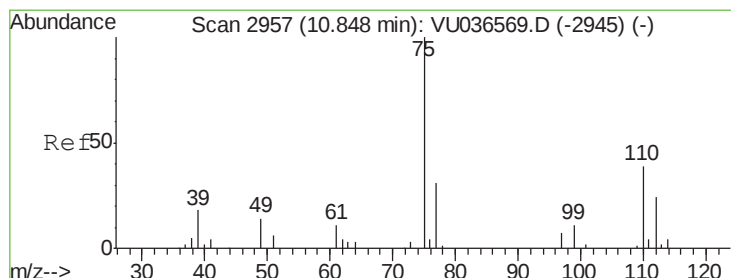
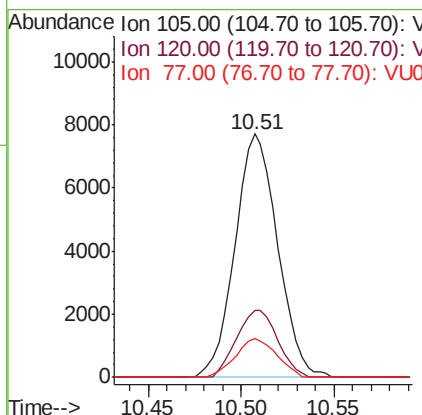
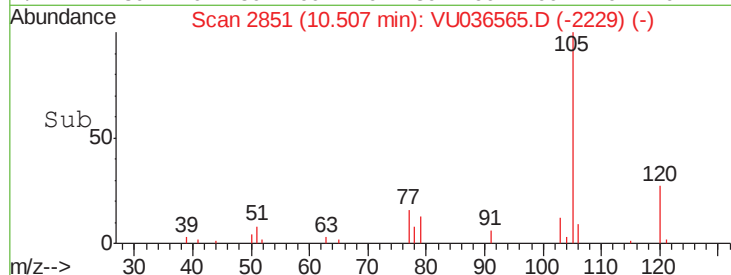
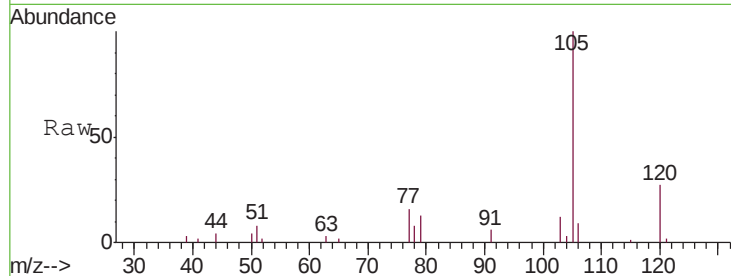
ClientSampled :

MDL04

Tgt Ion:	105	Resp:	12319
Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.5	32.3
77	15.4	12.2	18.2

Manual Integrations
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#61

1,2,3-Trichloropropane

Concen: 0.277 ug/L

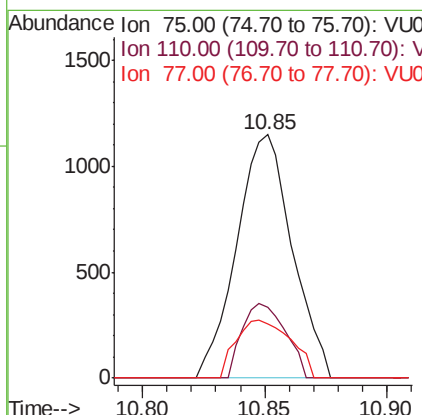
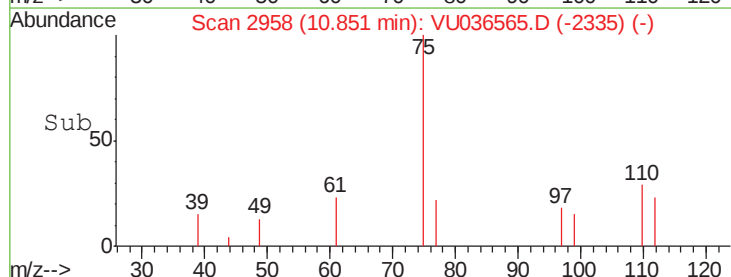
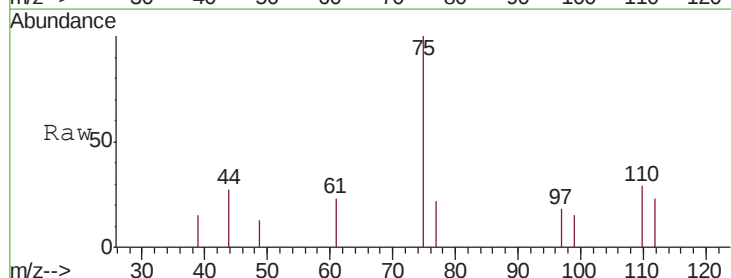
RT: 10.85 min Scan# 2958

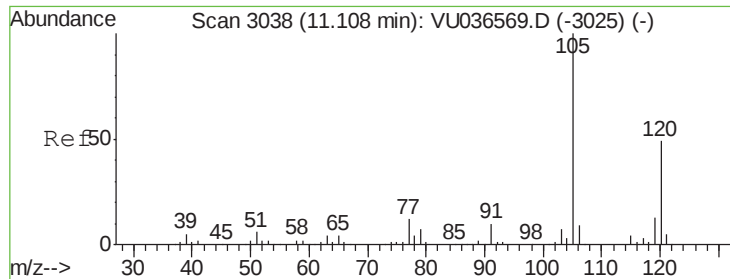
Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Tgt Ion:	75	Resp:	1812
Ion	Ratio	Lower	Upper
75	100		
110	23.7	29.0	43.4#
77	23.5	25.8	38.6#





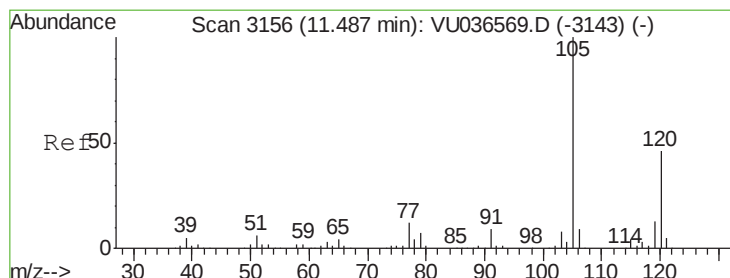
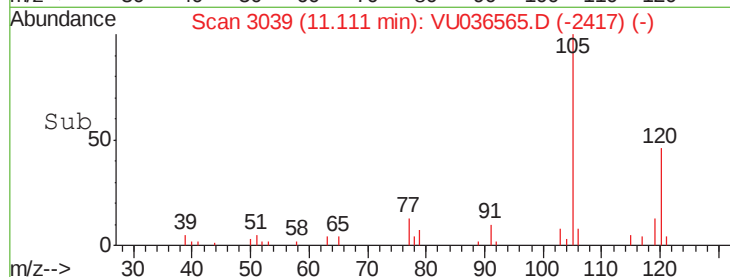
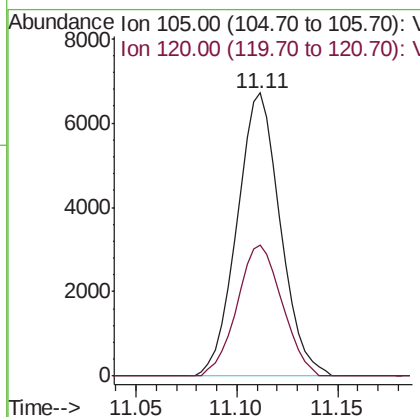
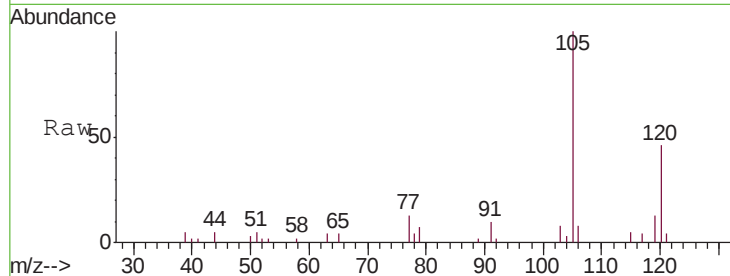
#62
 1,3,5-Trimethylbenzene
 Concen: 0.249 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. 0.00 min
 Lab File: VU036565.D
 Acq: 27 Jan 2020 13:51

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tgt Ion:105 Resp: 10121
 Ion Ratio Lower Upper
 105 100
 120 48.0 39.7 59.5

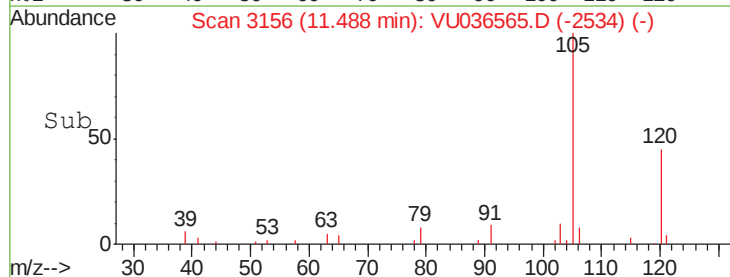
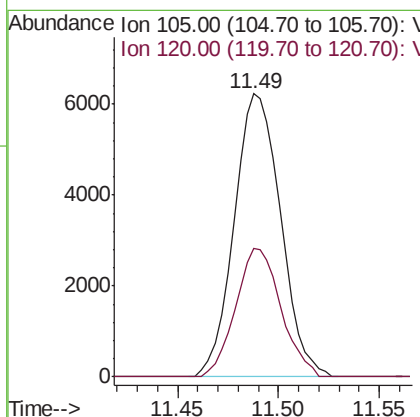
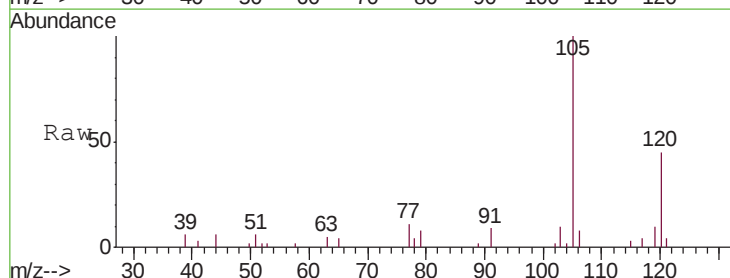
Manual Integrations
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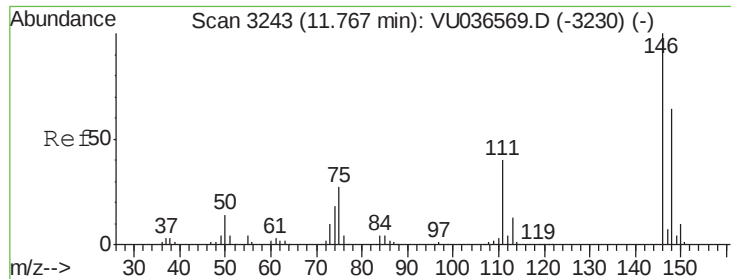
MMDadoda
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.249 ug/L
 RT: 11.49 min Scan# 3156
 Delta R.T. 0.00 min
 Lab File: VU036565.D
 Acq: 27 Jan 2020 13:51

Tgt Ion:105 Resp: 10046
 Ion Ratio Lower Upper
 105 100
 120 44.3 36.9 55.3





#64

1,3-Dichlorobenzene

Concen: 0.256 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampled :

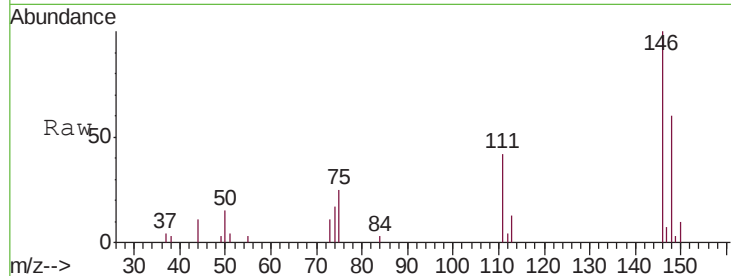
MDL04

Tgt Ion:146 Resp: 5669

Ion	Ratio	Lower	Upper
146	100		
111	42.4	28.8	53.6
148	60.3	44.2	82.2

Manual Integrations
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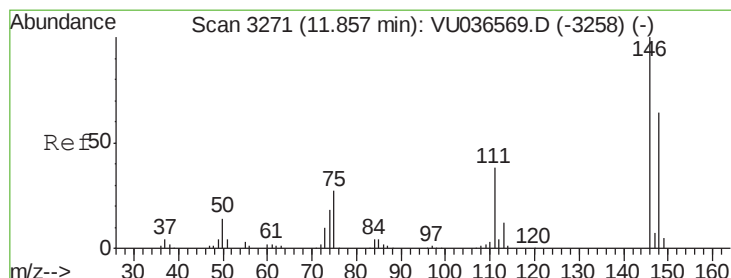
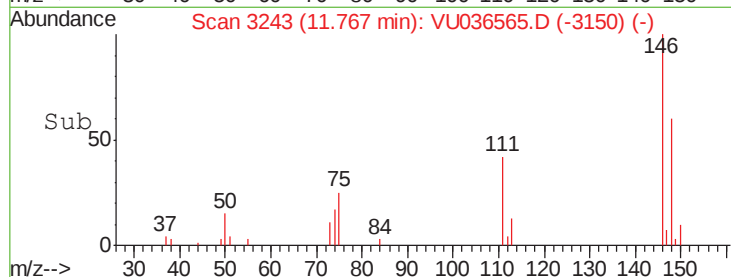
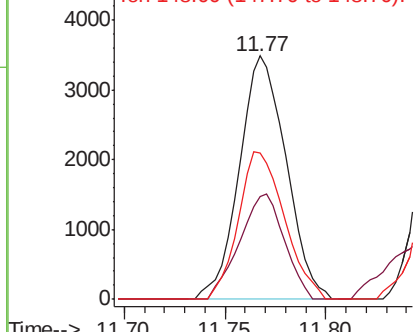
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Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 0.258 ug/L

RT: 11.86 min Scan# 3272

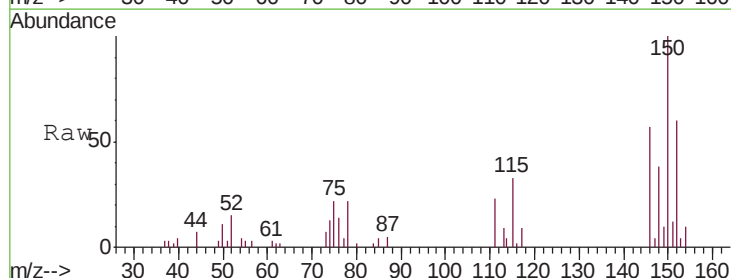
Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Tgt Ion:146 Resp: 5708

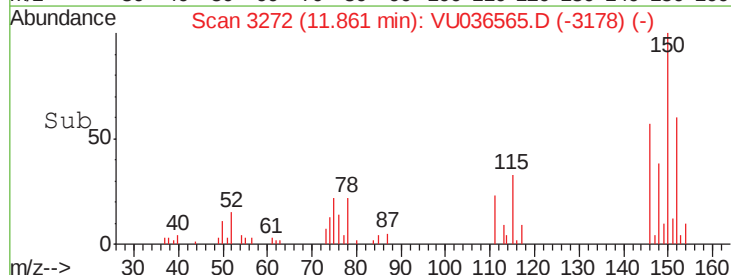
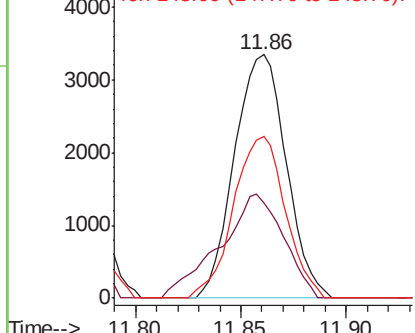
Ion	Ratio	Lower	Upper
146	100		
111	39.3	27.2	50.6
148	66.5	44.8	83.2

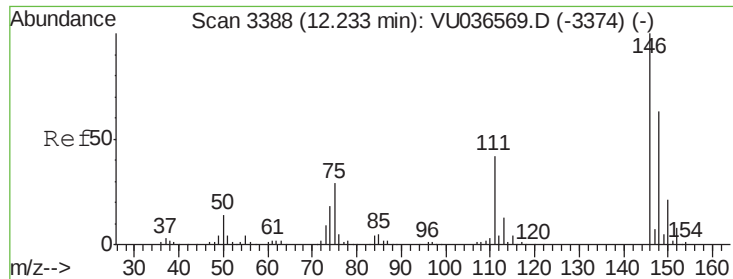


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





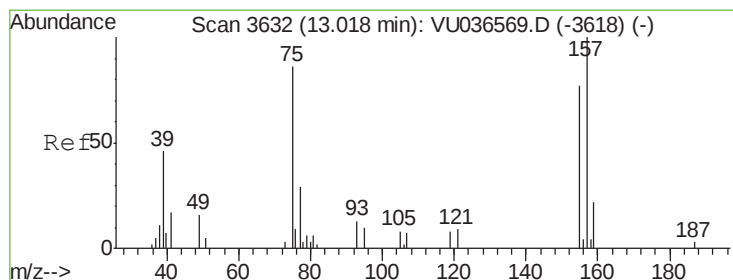
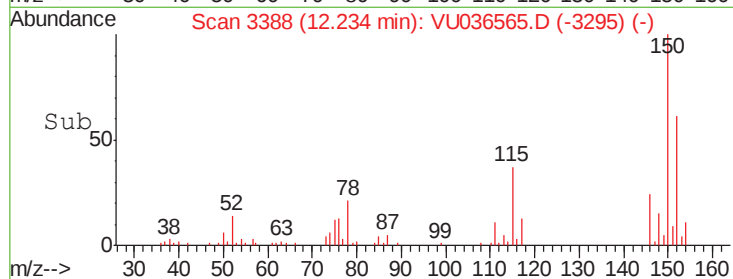
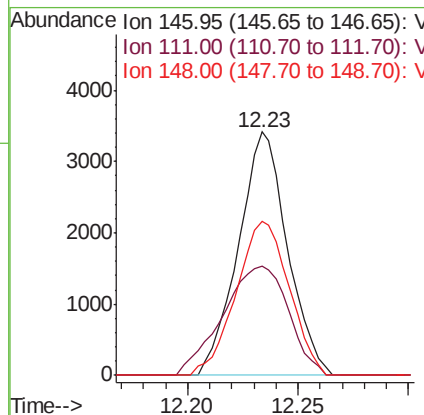
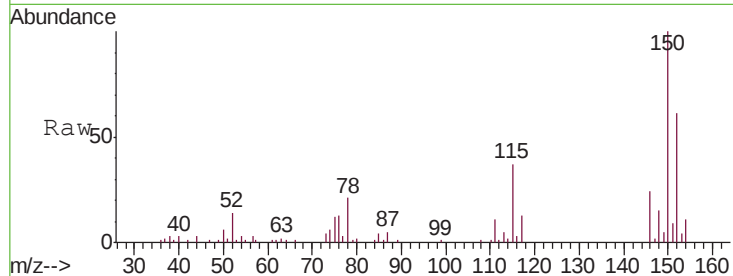
#67
1,2-Dichlorobenzene
Concen: 0.249 ug/L
RT: 12.23 min Scan# 3388
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tgt Ion:146 Resp: 5264
Ion Ratio Lower Upper
146 100
111 44.8 33.4 50.0
148 63.3 51.0 76.4

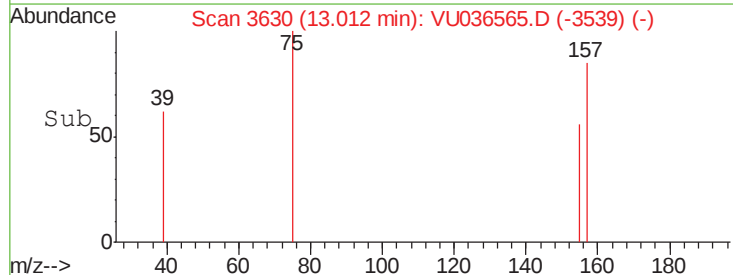
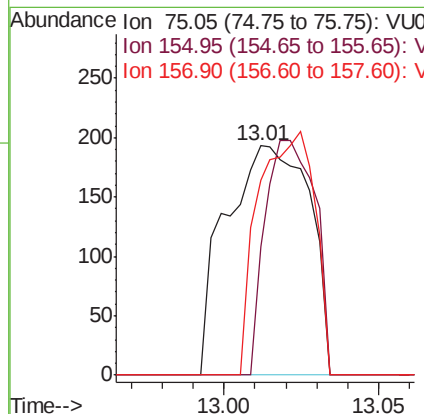
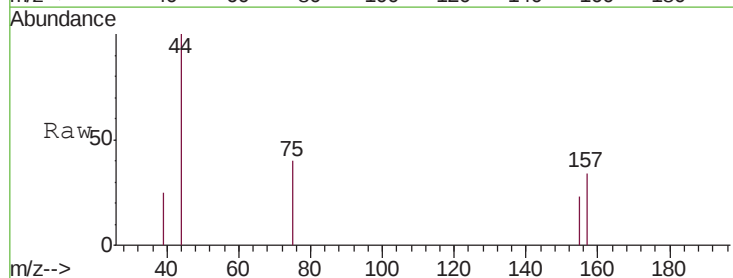
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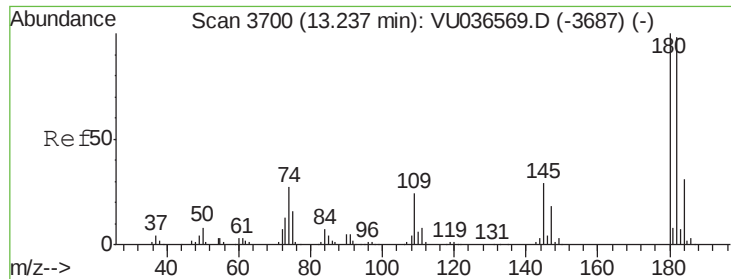
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#68
1,2-Dibromo-3-chloropropane
Concen: 0.263 ug/L
RT: 13.01 min Scan# 3630
Delta R.T. -0.01 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion: 75 Resp: 364
Ion Ratio Lower Upper
75 100
155 56.0 64.2 96.4#
157 85.0 85.1 127.7#





#69

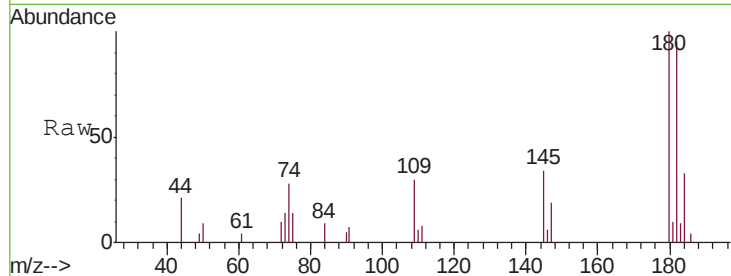
1,3,5-Trichlorobenzene
Concen: 0.214 ug/L
RT: 13.24 min Scan# 3701
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Instrument :
MSVOA_U
ClientSampleId :
MDL04

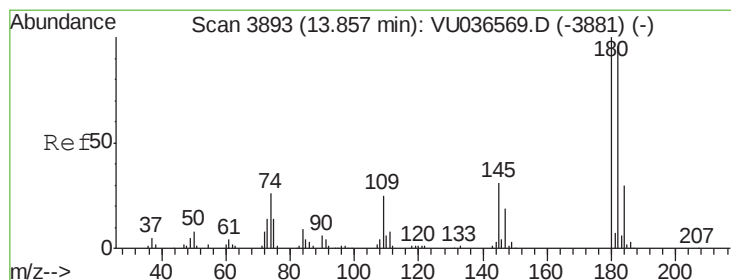
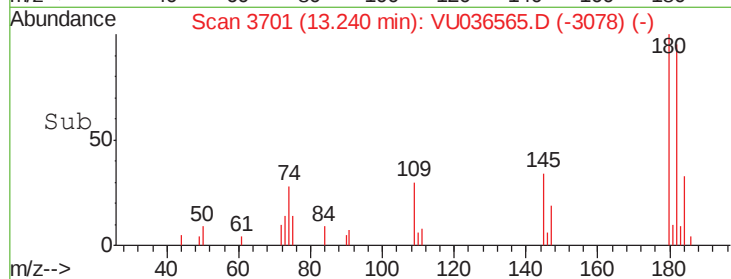
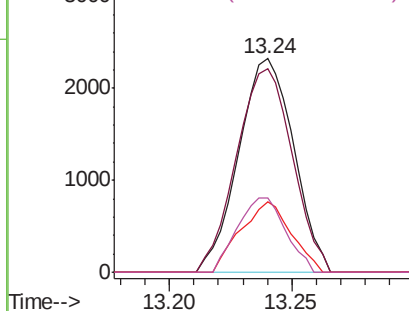
Tgt Ion:180 Resp: 3631
Ion Ratio Lower Upper
180 100
182 96.7 75.2 112.8
184 30.4 23.9 35.9
145 30.6 22.7 34.1

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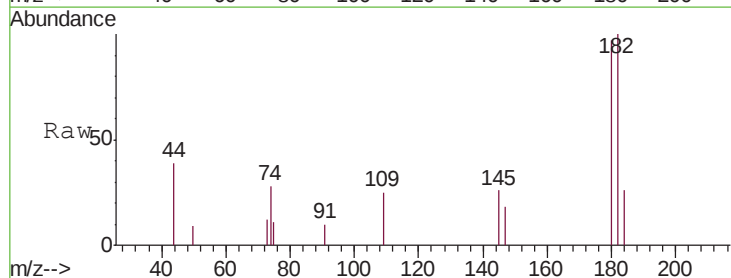
Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V
Ion 145.00 (144.70 to 145.70): V



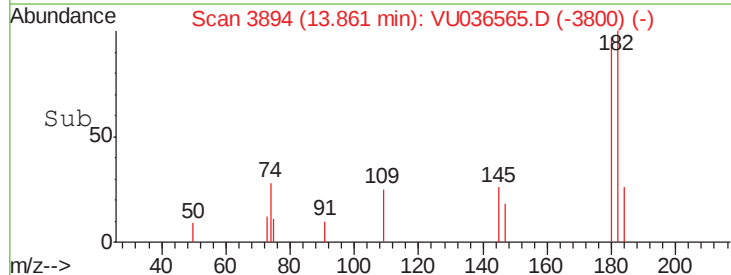
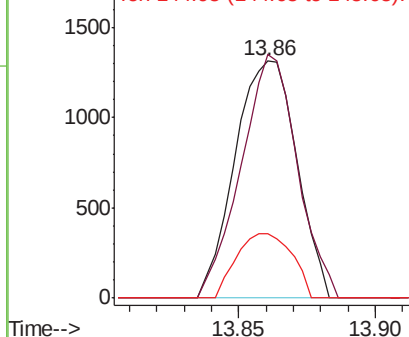
#70

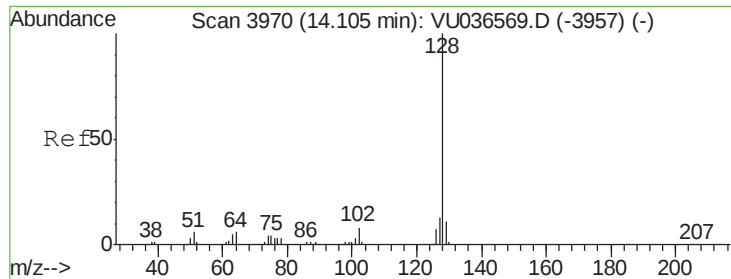
1,2,4-trichlorobenzene
Concen: 0.167 ug/L
RT: 13.86 min Scan# 3894
Delta R.T. 0.00 min
Lab File: VU036565.D
Acq: 27 Jan 2020 13:51

Tgt Ion:180 Resp: 2060
Ion Ratio Lower Upper
180 100
182 93.6 76.2 114.4
145 24.5 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: 0.107 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tgt Ion:128 Resp: 1879

Ion Ratio Lower Upper

128 100

129 3.6 8.4 12.6#

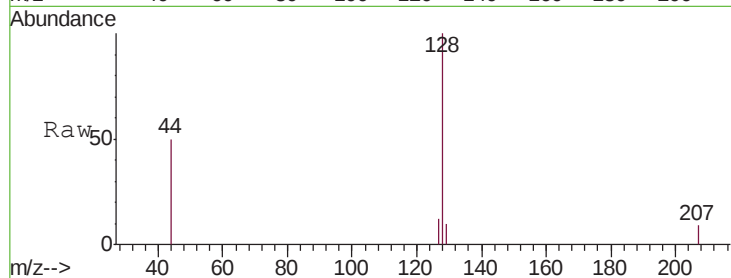
127 8.1 9.9 14.9#

Manual Integrations

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MMDadoda

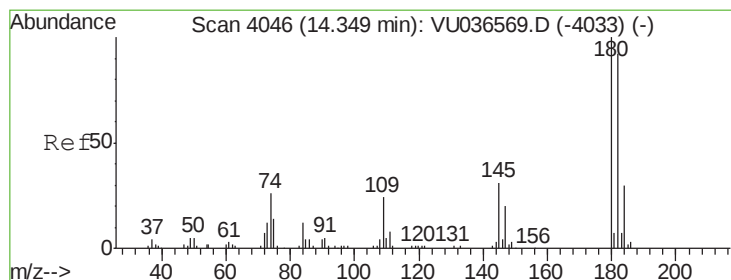
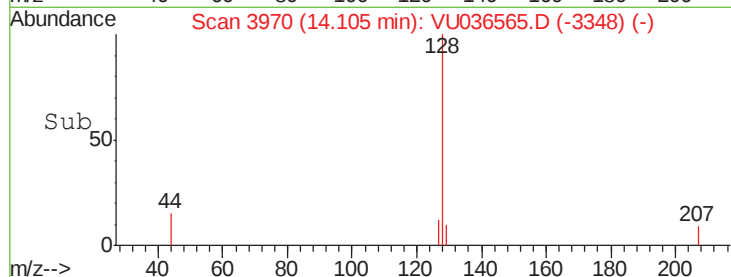
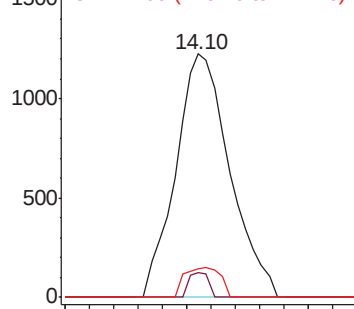
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#72

1,2,3-Trichlorobenzene

Concen: 0.161 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036565.D

Acq: 27 Jan 2020 13:51

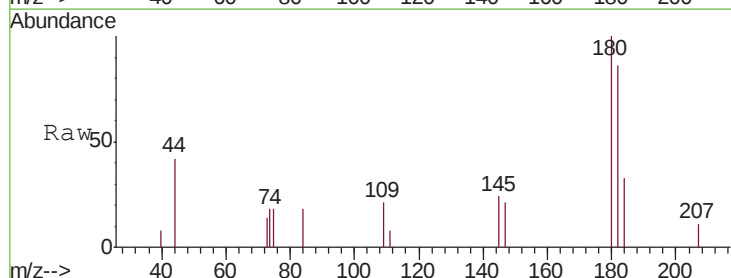
Tgt Ion:180 Resp: 1802

Ion Ratio Lower Upper

180 100

182 93.6 76.2 114.2

145 29.0 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

