

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037208.D
 Acq On : 17 Jun 2021 19:20
 Operator : SY/AP
 Sample : M2742-05DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DUP

Manual Integrations
 APPROVED

MMDadoda
 6/21/2021 12:58:27 PM

Quant Time: Jun 19 17:25:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 17 17:25:11 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1553212	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4317186	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3833954	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2830691	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	65453	0.242	ppbv	99
4) Chloromethane	3.14	50	76025	0.755	ppbv	95
9) Propene	3.02	41	74784m	0.774	ppbv	
11) Trichlorofluoromethane	3.95	101	55061	0.191	ppbv	97
13) Ethanol	3.61	45	1350213	90.386	ppbv	47
15) Acetone	3.85	43	1196681	6.832	ppbv	99
19) Isopropyl Alcohol	3.98	45	501731	4.729	ppbv #	95
20) Methylene Chloride	4.35	84	1862840	17.765	ppbv	98
26) Hexane	5.69	57	2011576	10.496	ppbv #	47
29) Chloroform	5.75	83	79913	0.270	ppbv	92
30) Cyclohexane	7.13	84	19462m	0.122	ppbv	
34) 2-Butanone	5.25	43	110077	0.656	ppbv	93
35) Carbon Tetrachloride	7.02	117	19618m	0.068	ppbv	
36) Benzene	6.89	78	39795	0.114	ppbv	92
44) 2,2,4-Trimethylpentane	7.87	57	96454m	0.164	ppbv	
52) Tetrachloroethene	11.24	164	9028m	0.056	ppbv	
53) Toluene	9.81	91	211594m	0.507	ppbv	
59) m/p-Xylene	12.96	91	153698m	0.344	ppbv	
60) o-Xylene	13.69	91	54697m	0.128	ppbv	
69) p-Isopropyltoluene	17.65	119	116067	0.192	ppbv	94
74) 1,2,4-Trimethylbenzene	16.76	105	91034	0.189	ppbv #	67
76) 1,4-Dichlorobenzene	17.14	146	29502m	0.101	ppbv	

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

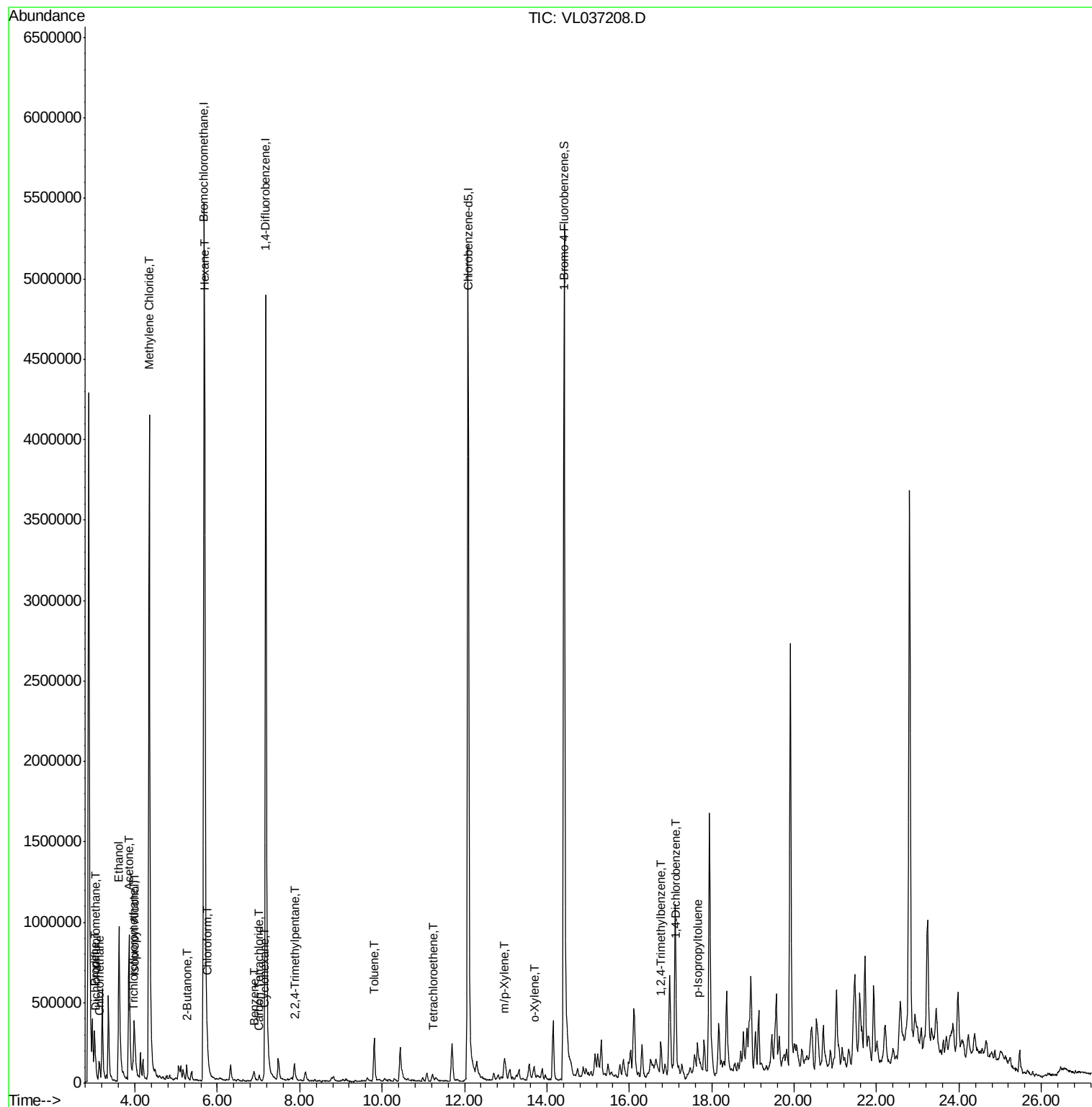
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037208.D
Acq On : 17 Jun 2021 19:20
Operator : SY/AP
Sample : M2742-05DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

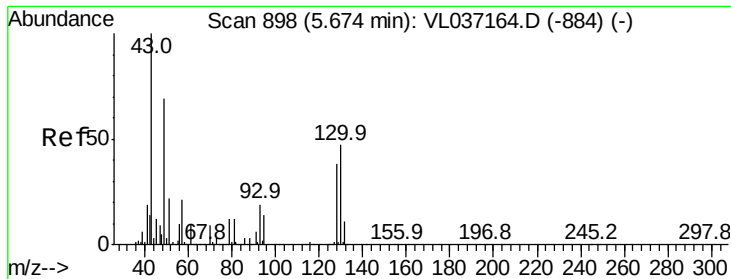
Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

Manual Integrations
APPROVED

MMDadoda
6/21/2021 12:58:27 PM

Quant Time: Jun 19 17:25:11 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion: 49 Resp: 1553212

Ion Ratio Lower Upper

49 100

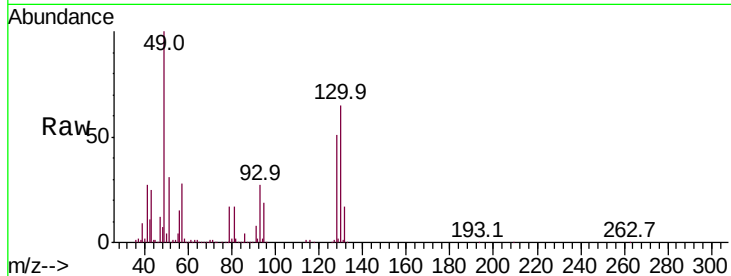
128 53.6 29.3 88.0

130 69.0 35.9 107.8

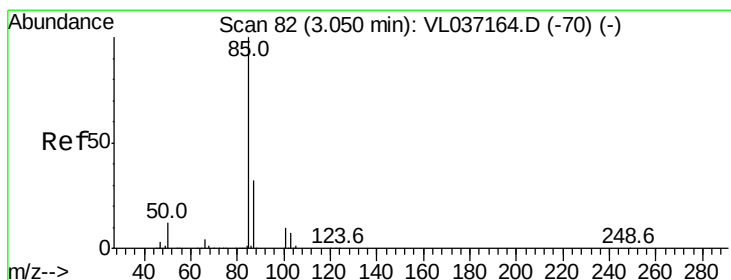
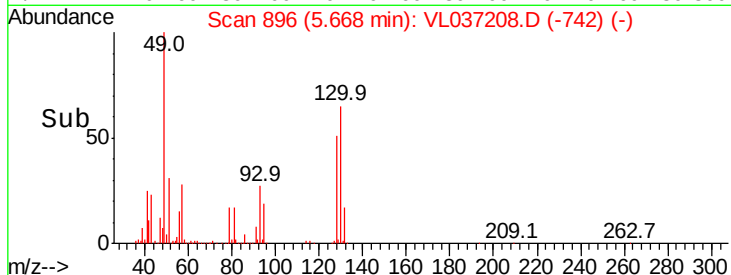
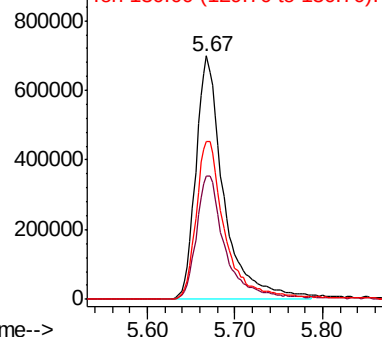
Manual Integrations
APPROVED

MMDadoda

6/21/2021 12:58:27 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.242 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037208.D

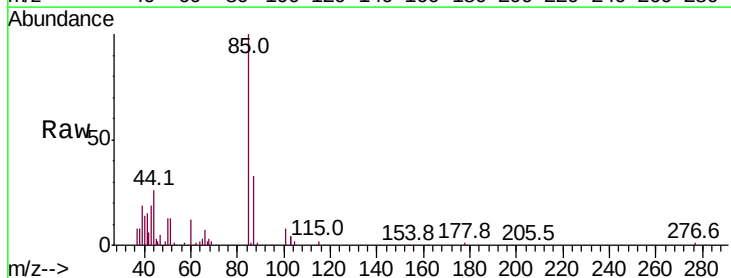
Acq: 17 Jun 2021 19:20

Tgt Ion: 85 Resp: 65453

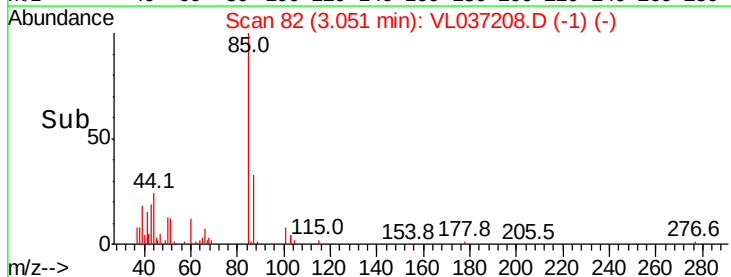
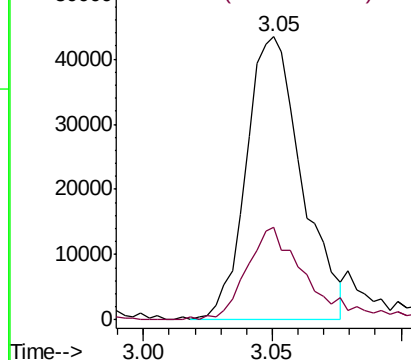
Ion Ratio Lower Upper

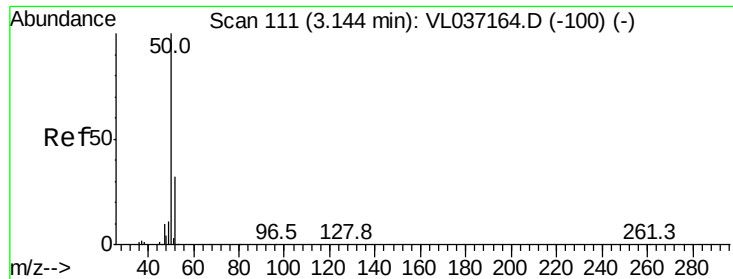
85 100

87 31.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.755 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Instrument :

MSVOA_L

ClientSampled :

IA2DUP

Tot Ion: 50 Resp: 76025

Ion Ratio Lower Upper

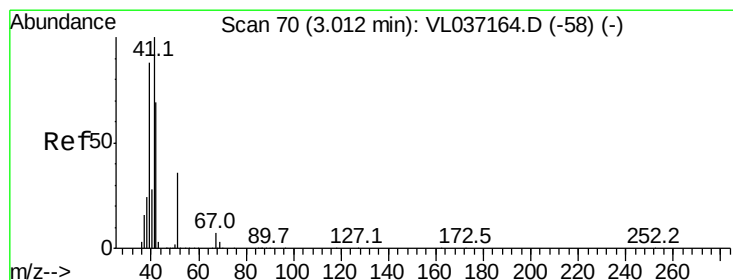
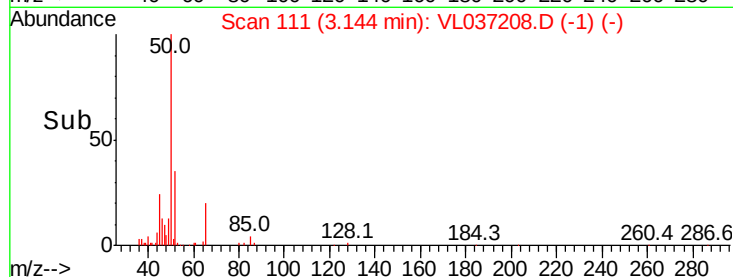
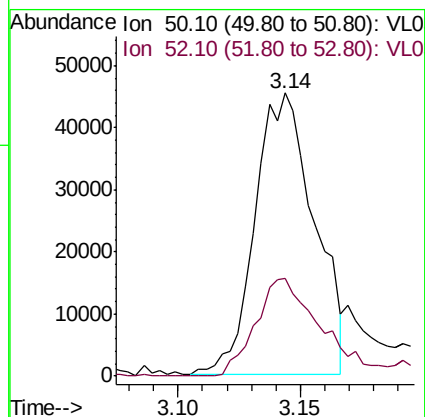
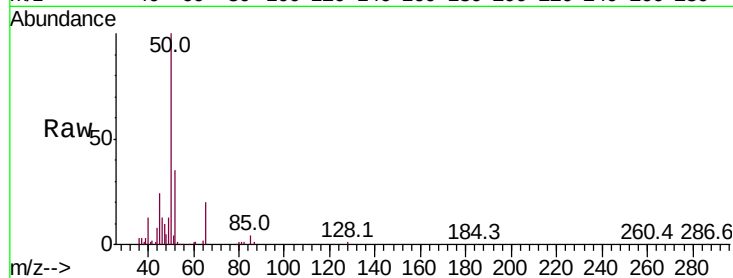
50 100

52 34.9 25.8 38.8

Manual Integrations
APPROVED

MMDadoda

6/21/2021 12:58:27 PM



#9

Propene

Concen: 0.774 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037208.D

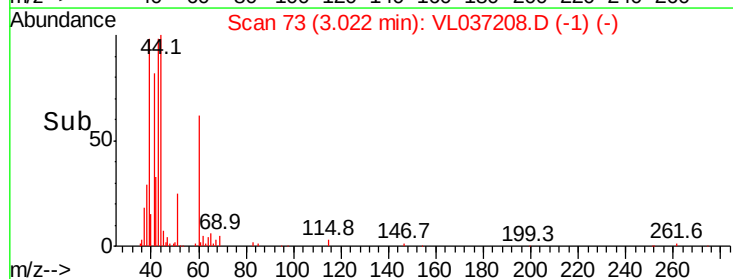
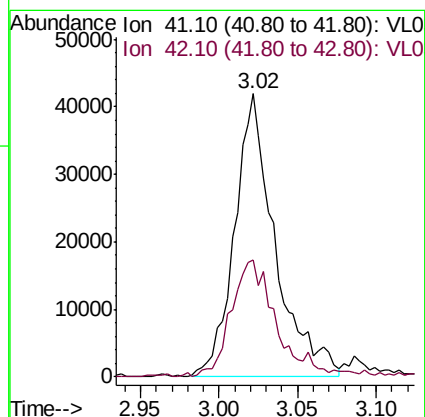
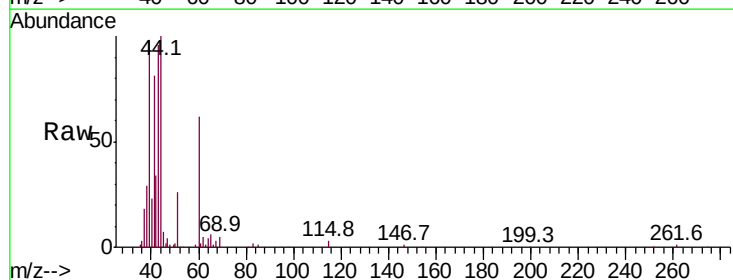
Acq: 17 Jun 2021 19:20

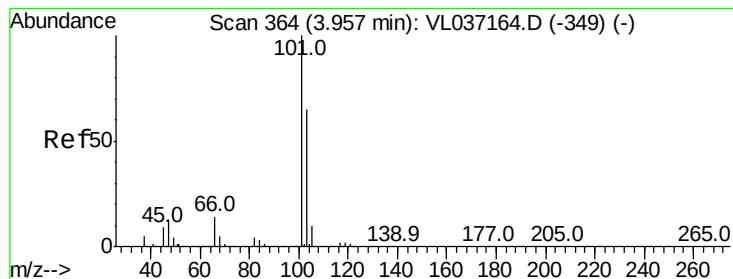
Tgt Ion: 41 Resp: 74784

Ion Ratio Lower Upper

41 100

42 169.7 54.5 81.7#





#11

Trichlorofluoromethane

Concen: 0.191 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion:101 Resp: 55061

Ion Ratio Lower Upper

101 100

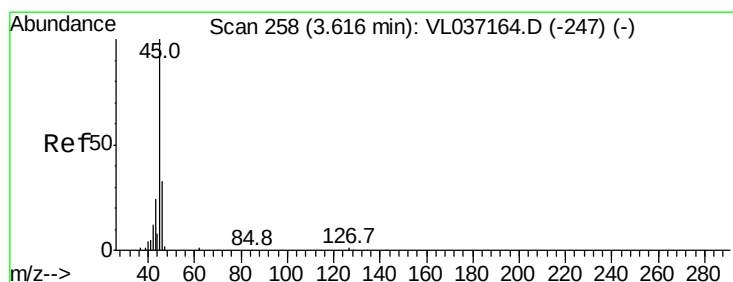
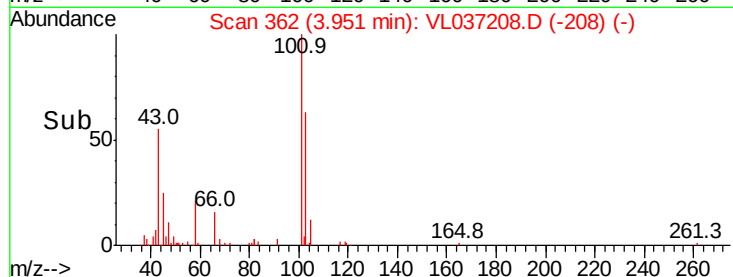
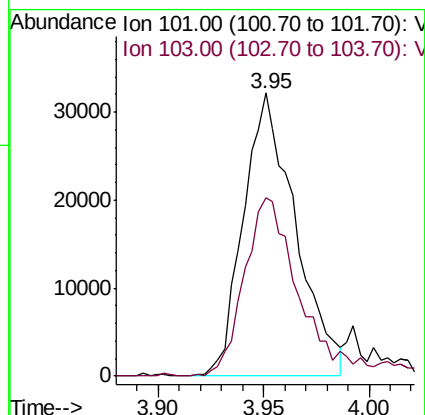
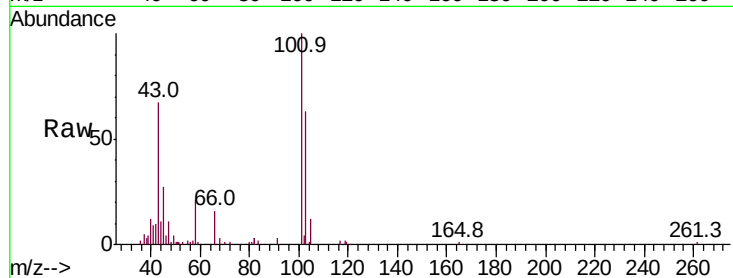
103 62.9 52.2 78.4

Manual Integrations

APPROVED

MMDadoda

6/21/2021 12:58:27 PM



#13

Ethanol

Concen: 90.386 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL037208.D

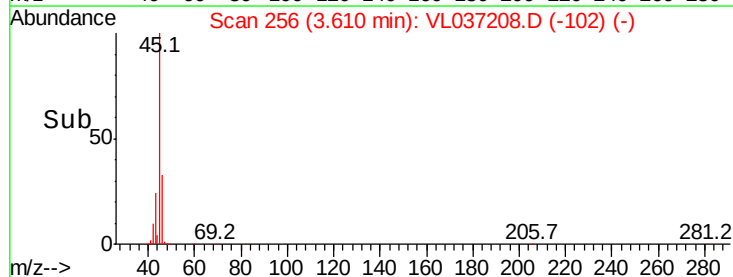
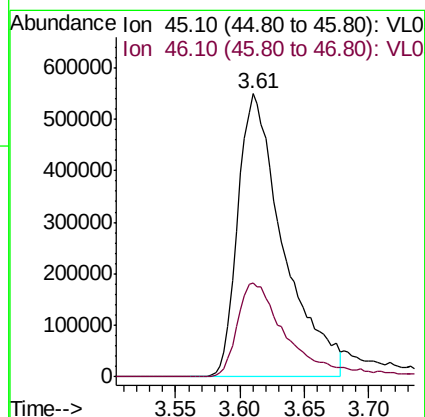
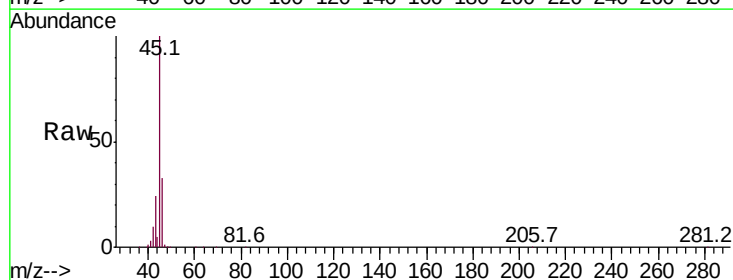
Acq: 17 Jun 2021 19:20

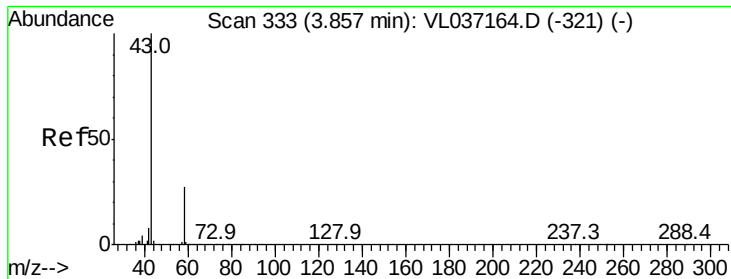
Tgt Ion: 45 Resp: 1350213

Ion Ratio Lower Upper

45 100

46 37.5 34.2 137.0





#15

Acetone

Concen: 6.832 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Instrument :

MSVOA_L

ClientSampleId :

IA2DUP

Tot Ion: 43 Resp: 1196681

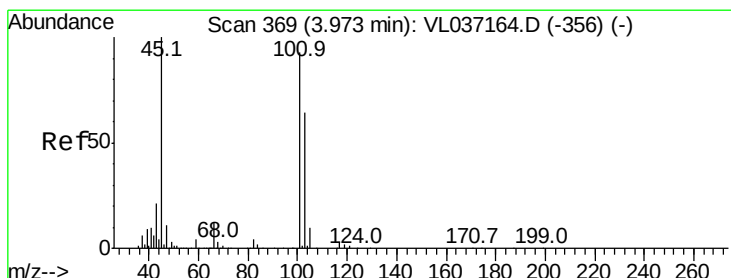
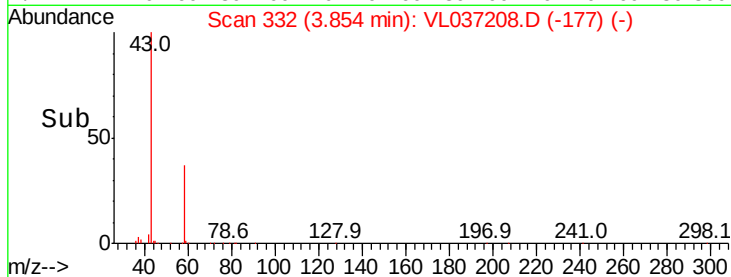
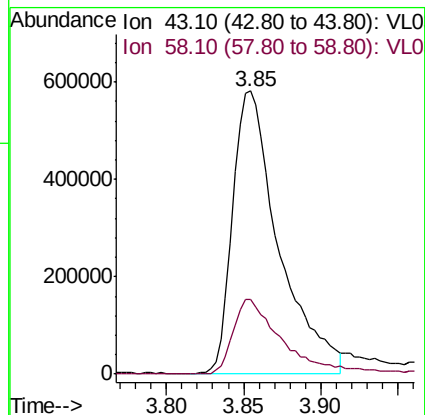
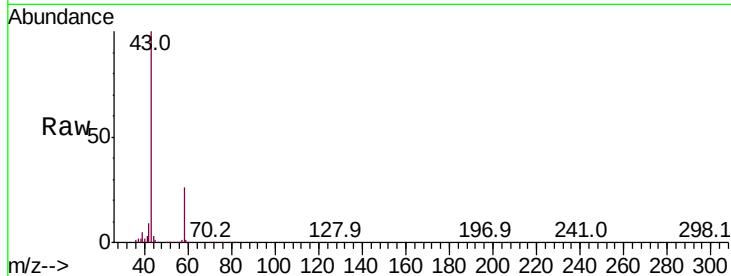
Ion Ratio Lower Upper

43 100

58 29.0 23.7 35.5

Manual Integrations
APPROVED

MMDadoda
6/21/2021 12:58:27 PM



#19

Isopropyl Alcohol

Concen: 4.729 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL037208.D

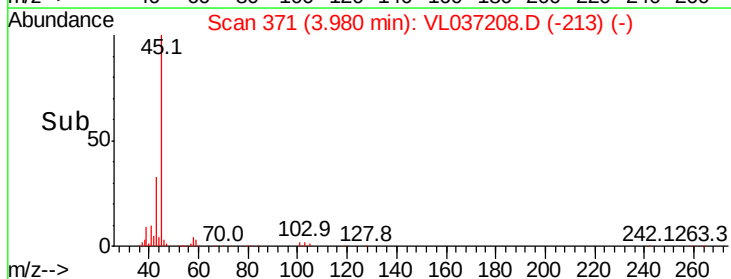
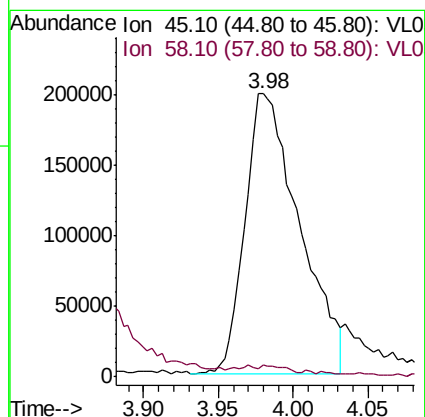
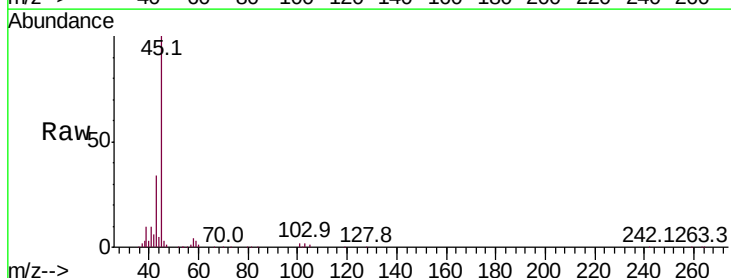
Acq: 17 Jun 2021 19:20

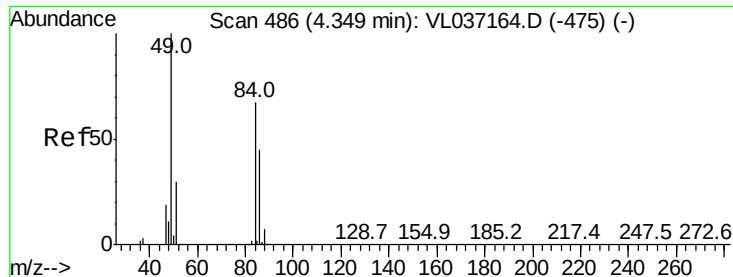
Tgt Ion: 45 Resp: 501731

Ion Ratio Lower Upper

45 100

58 4.7 2.4 3.6#





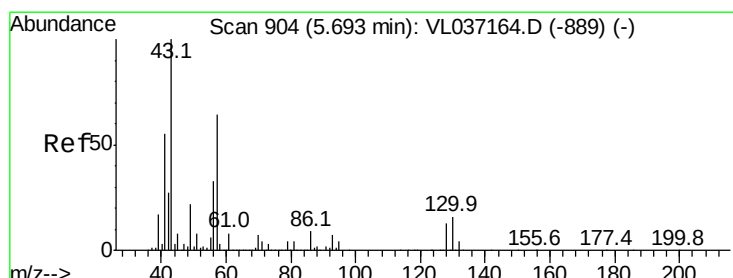
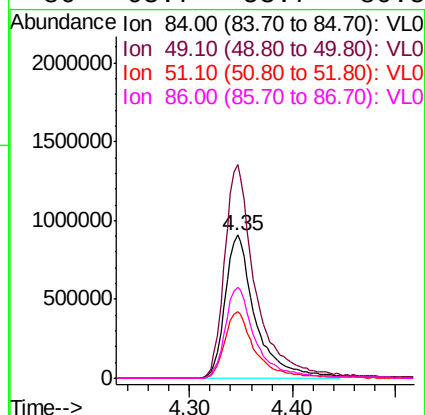
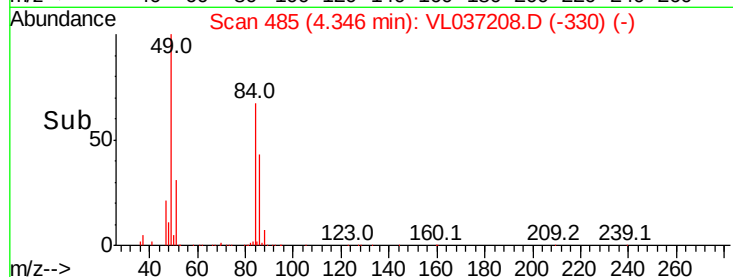
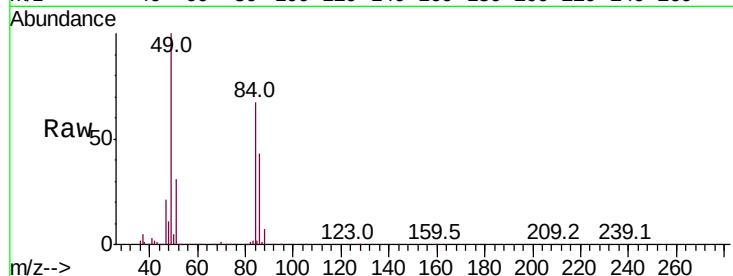
#20
Methvlene Chloride
Concen: 17.765 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

Tot Ion	Ratio	Lower	Upper
84	100		
49	149.4	119.7	179.5
51	46.5	36.1	54.1
86	63.7	53.7	80.5

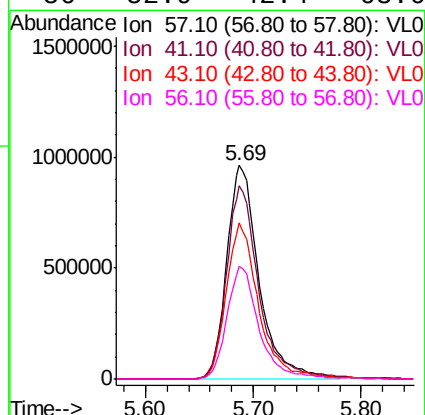
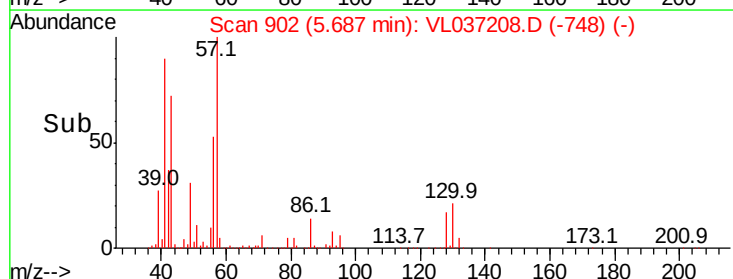
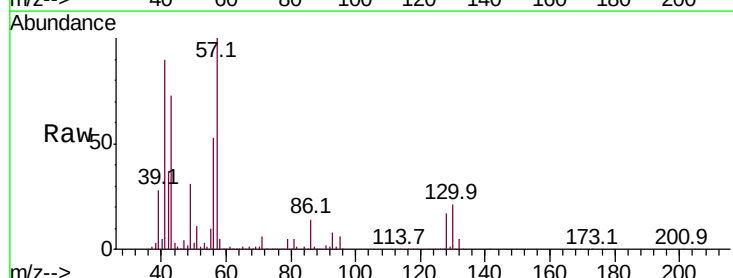
Manual Integrations
APPROVED

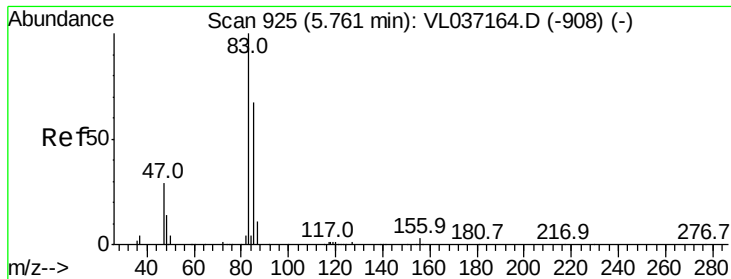
MMDadoda
6/21/2021 12:58:27 PM



#26
Hexane
Concen: 10.496 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.1	73.5	110.3
43	73.9	170.7	256.1#
56	52.9	42.4	63.6





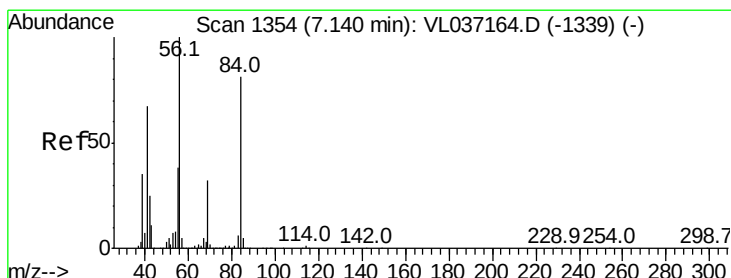
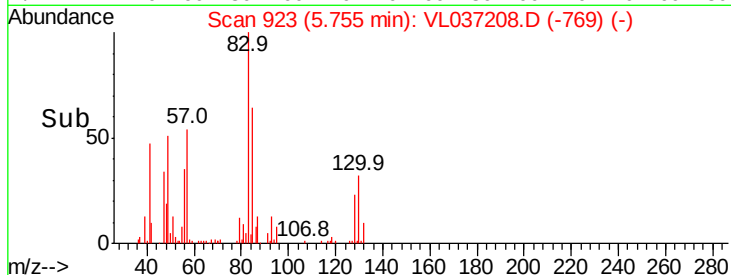
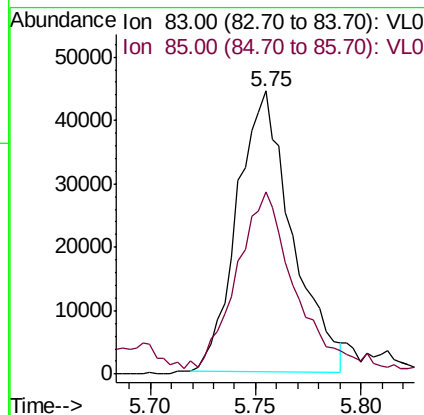
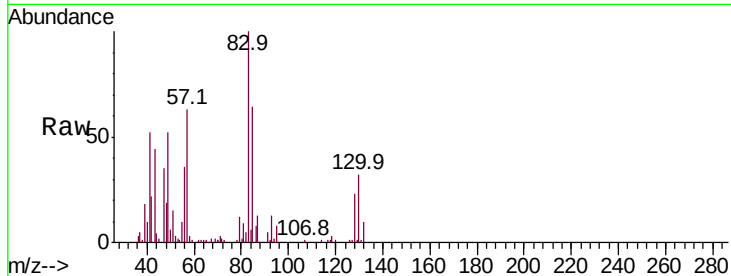
#29
Chloroform
Concen: 0.270 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Instrument :
MSVOA_L
ClientSampled :
IA2DUP

Tot Ion: 83 Resp: 79913
Ion Ratio Lower Upper
83 100
85 60.4 53.6 80.4

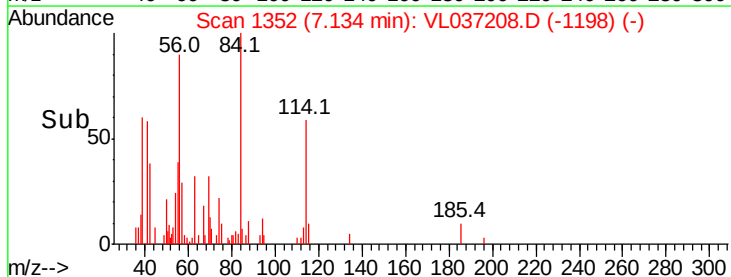
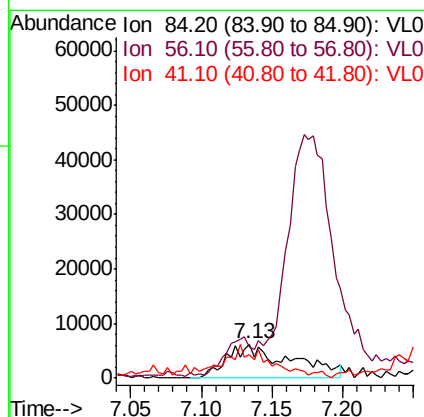
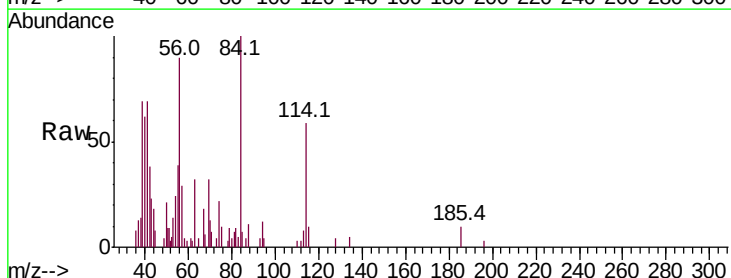
Manual Integrations
APPROVED

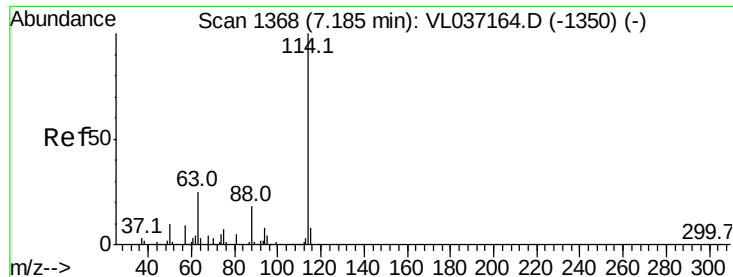
MMDadoda
6/21/2021 12:58:27 PM



#30
Cyclohexane
Concen: 0.122 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Tgt Ion: 84 Resp: 19462
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 69.0 103.6#





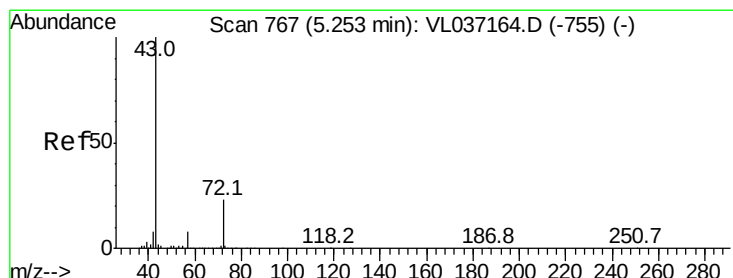
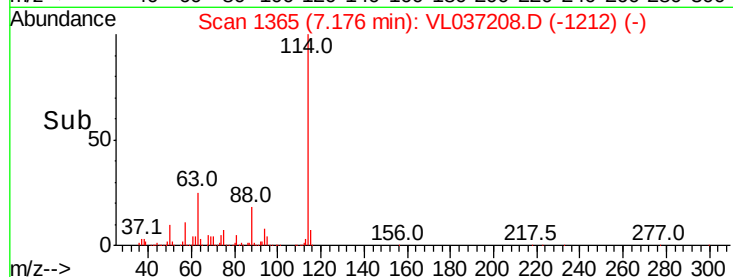
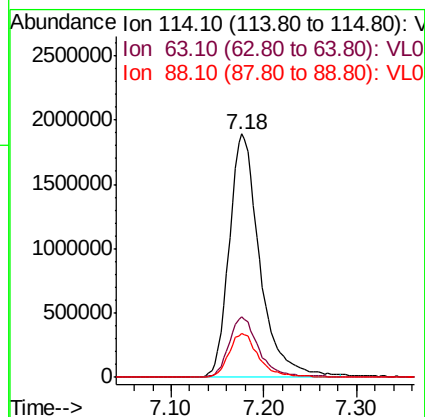
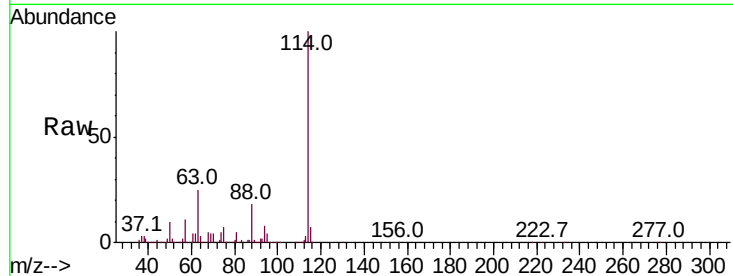
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Instrument :
MSVOA_L
ClientSampleId :
IA2DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.6	29.4
88	18.0	14.2	21.2

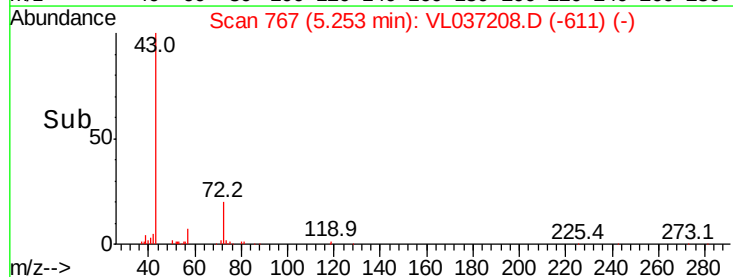
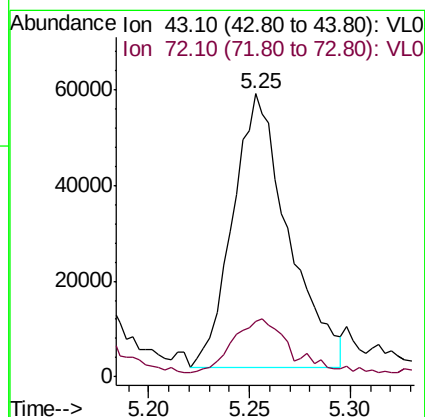
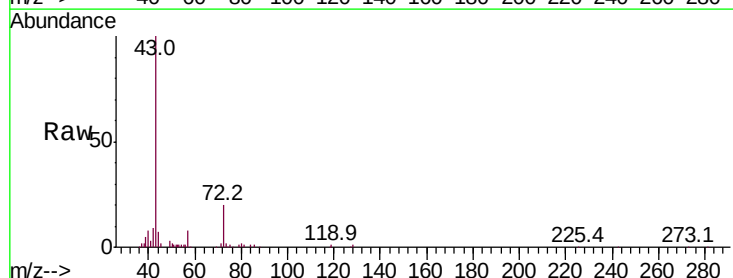
Manual Integrations
APPROVED

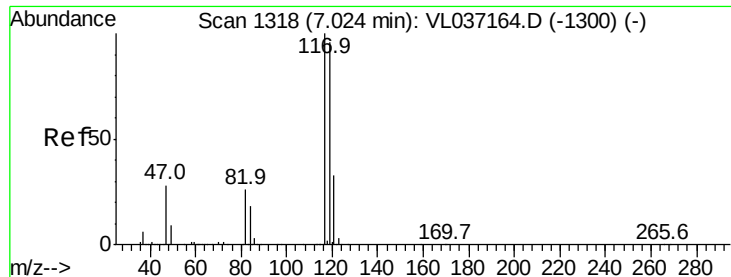
MMDadoda
6/21/2021 12:58:27 PM



#34
2-Butanone
Concen: 0.656 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.9	28.3





#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Instrument :

MSVOA_L

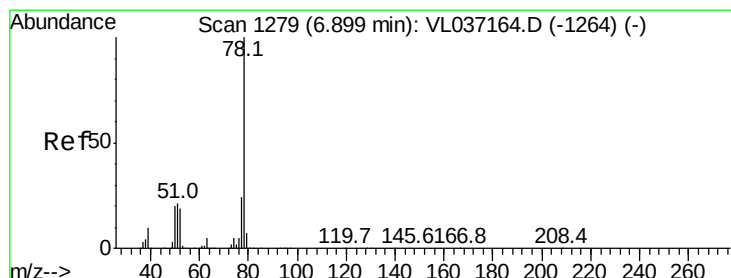
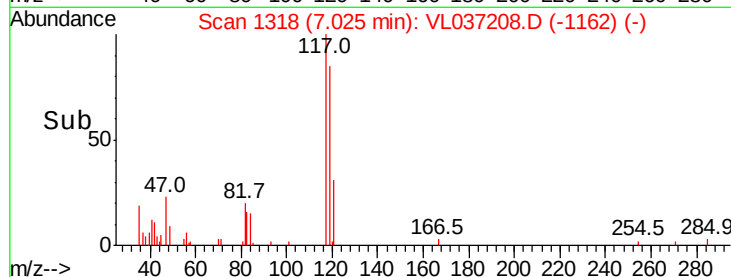
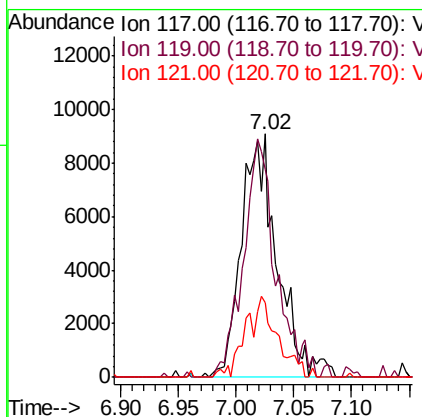
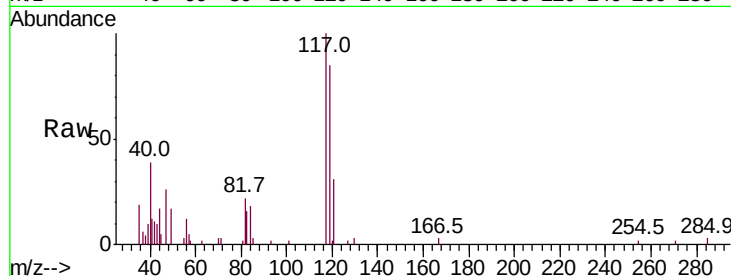
ClientSampleId :

IA2DUP

Tot Ion:	117	Resp:	19618
Ion Ratio	Lower	Upper	
117	100		
119	85.1	76.6	114.8
121	30.6	26.4	39.6

Manual Integrations
APPROVED

MMDadoda
6/21/2021 12:58:27 PM



#36

Benzene

Concen: 0.114 ppbv

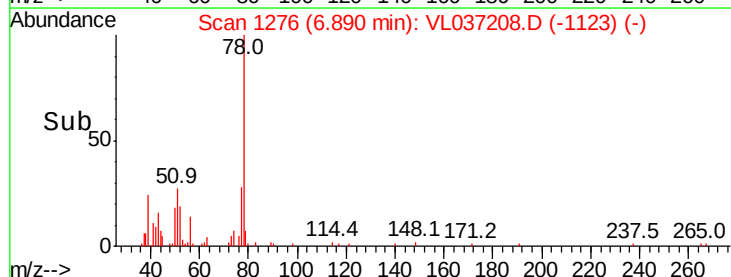
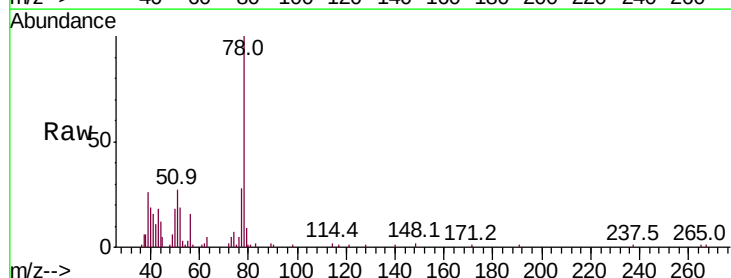
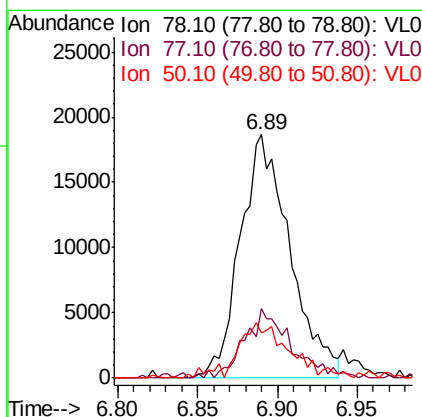
RT: 6.89 min Scan# 1276

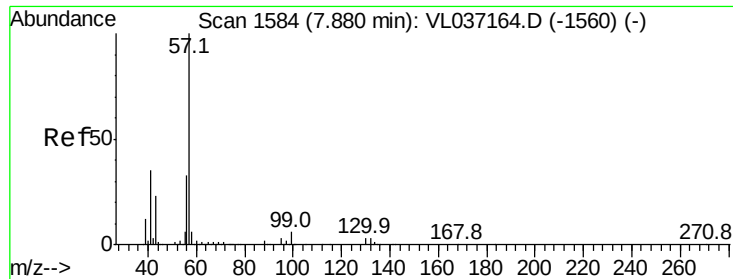
Delta R.T. -0.01 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Tgt Ion:	78	Resp:	39795
Ion Ratio	Lower	Upper	
78	100		
77	28.3	19.0	28.6
50	16.5	15.7	23.5





#44

2,2,4-Trimethylpentane

Concen: 0.164 ppbv m

RT: 7.87 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Instrument :

MSVOA_L

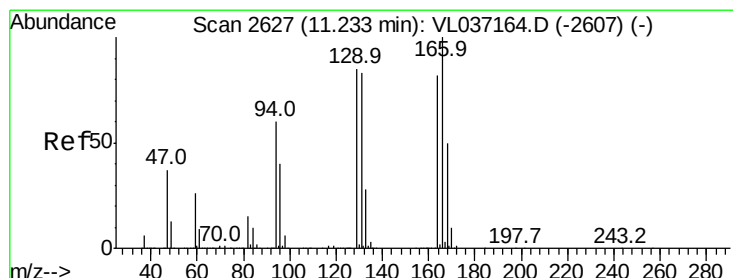
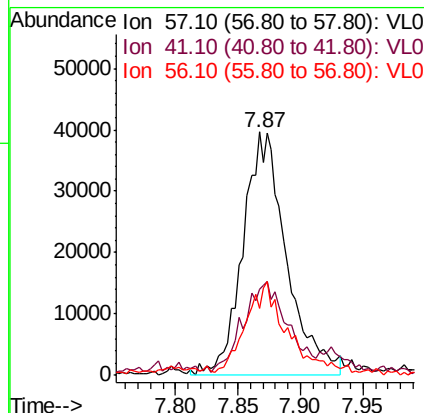
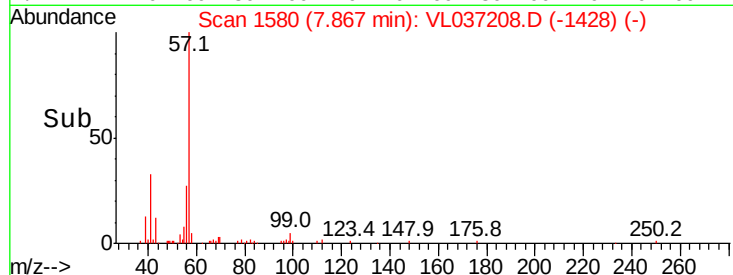
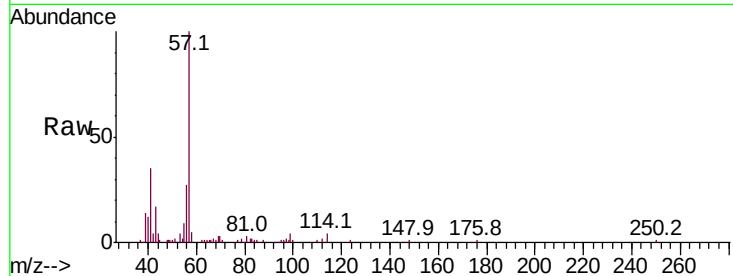
ClientSampled :

IA2DUP

Tot Ion	57	Resp	96454
Ion Ratio	Lower	Upper	
57	100		
41	0.0	27.6	41.4#
56	0.0	25.3	37.9#

Manual Integrations
APPROVED

MMDadoda
6/21/2021 12:58:27 PM



#52

Tetrachloroethene

Concen: 0.056 ppbv m

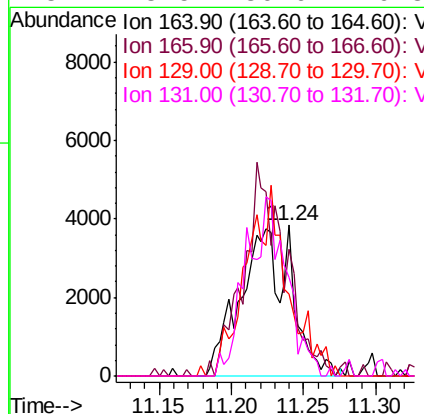
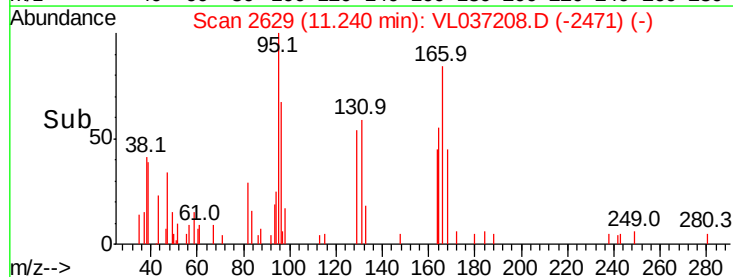
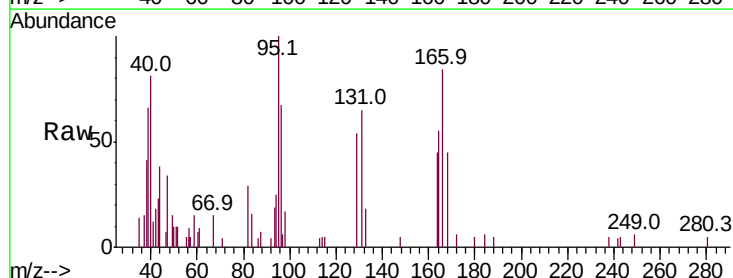
RT: 11.24 min Scan# 2629

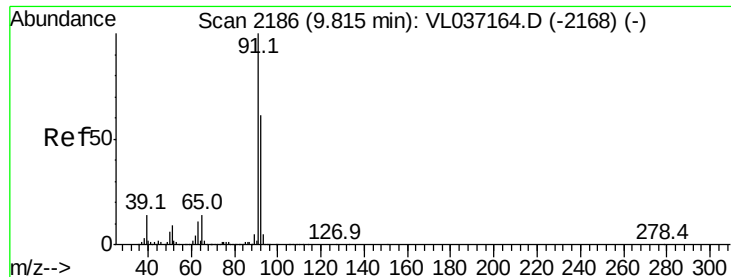
Delta R.T. 0.01 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Tgt Ion	164	Resp	9028
Ion Ratio	Lower	Upper	
164	100		
166	152.9	97.6	146.4#
129	99.3	82.9	124.3
131	118.5	80.6	120.8





#53

Toluene

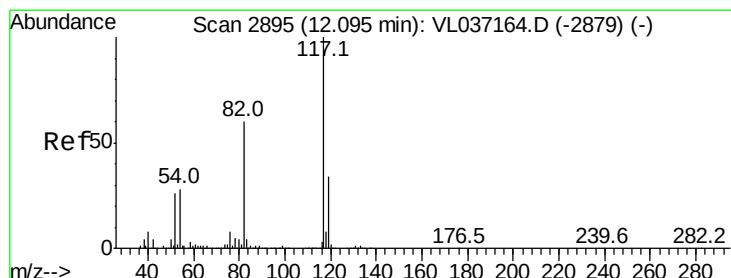
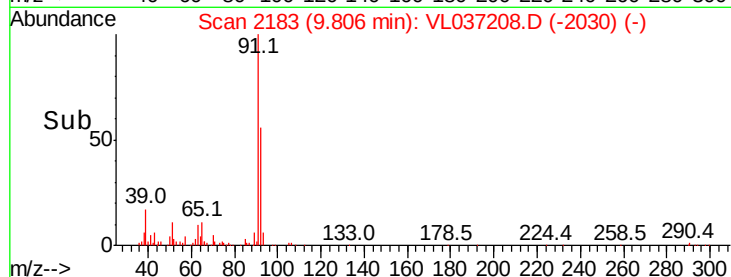
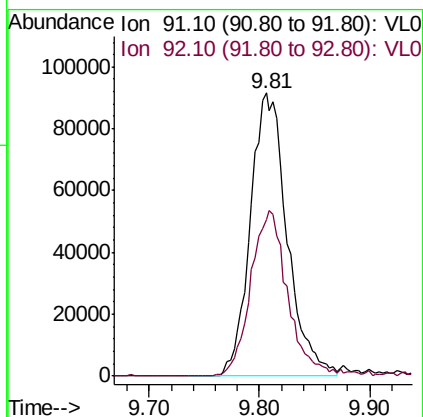
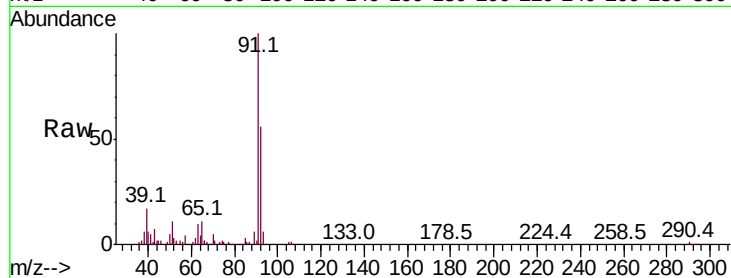
Concen: 0.507 ppbv m
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Instrument :
MSVOA_L
ClientSampled :
IA2DUP

Tot Ion: 91 Resp: 211594
Ion Ratio Lower Upper
91 100
92 0.0 48.3 72.5#

Manual Integrations
APPROVED

MMDadoda
6/21/2021 12:58:27 PM

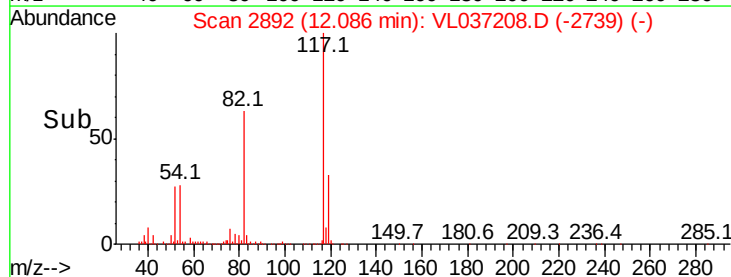
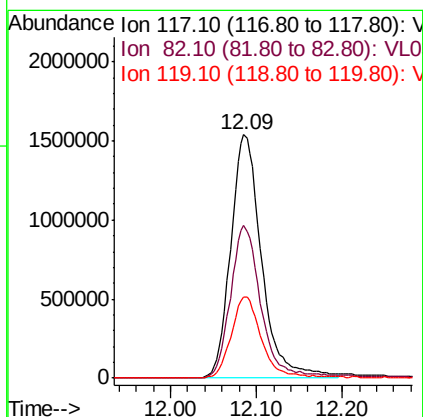
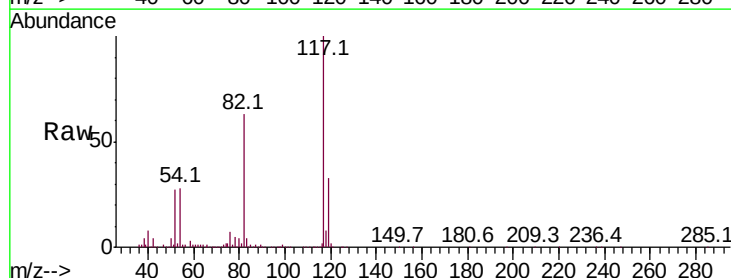


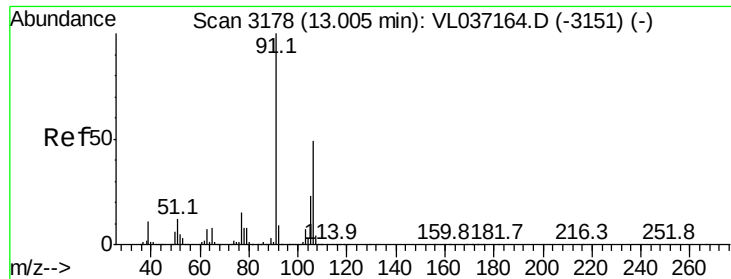
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Tgt Ion: 117 Resp: 3833954
Ion Ratio Lower Upper
117 100
82 63.8 51.7 77.5
119 33.8 47.6 71.4#





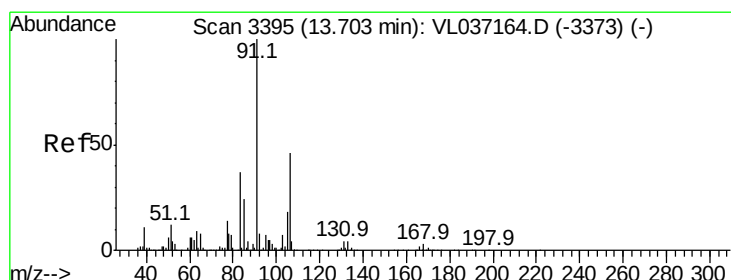
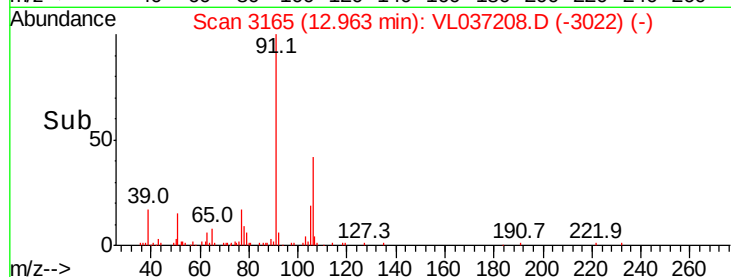
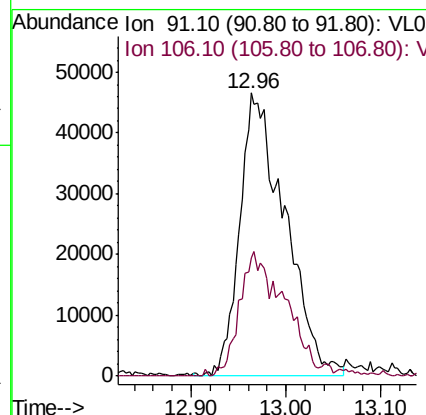
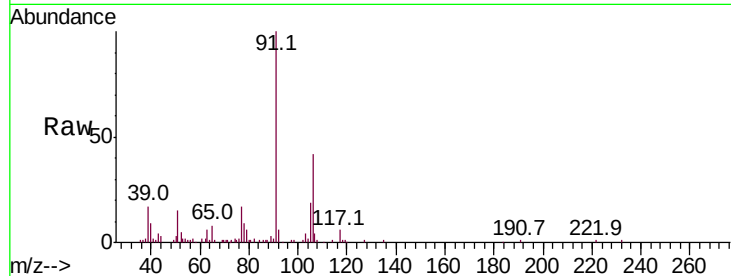
#59
m/p-Xylene
Concen: 0.344 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Instrument :
MSVOA_L
ClientSampled :
IA2DUP

Tot Ion: 91 Resp: 153698
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

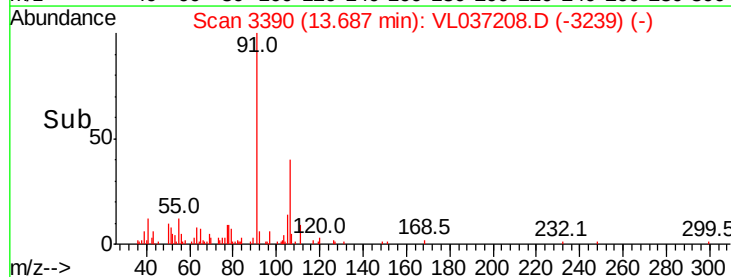
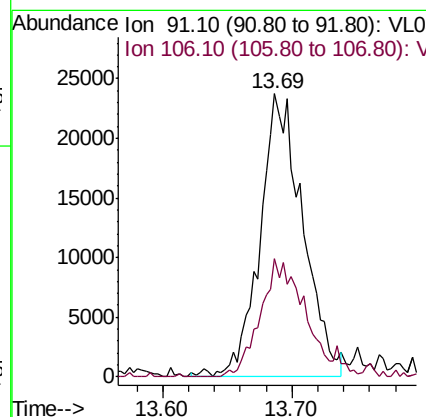
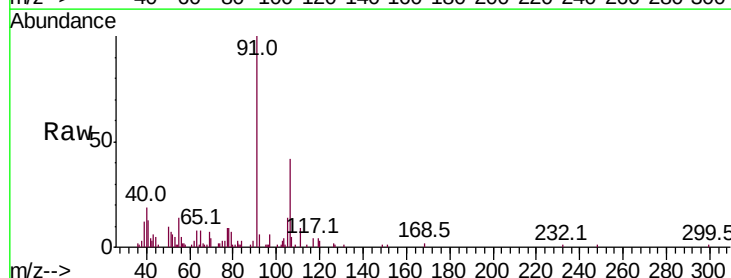
Manual Integrations
APPROVED

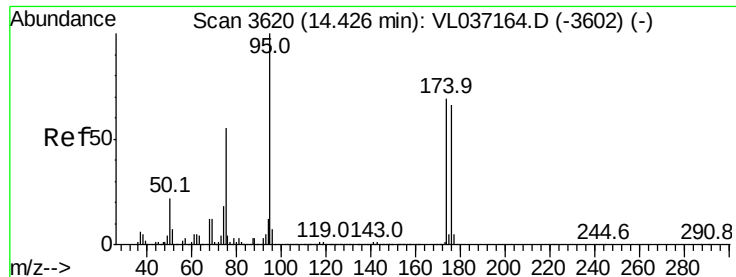
MMDadoda
6/21/2021 12:58:27 PM



#60
o-Xylene
Concen: 0.128 ppbv m
RT: 13.69 min Scan# 3390
Delta R.T. -0.02 min
Lab File: VL037208.D
Acq: 17 Jun 2021 19:20

Tgt Ion: 91 Resp: 54697
Ion Ratio Lower Upper
91 100
106 0.0 23.0 69.0#





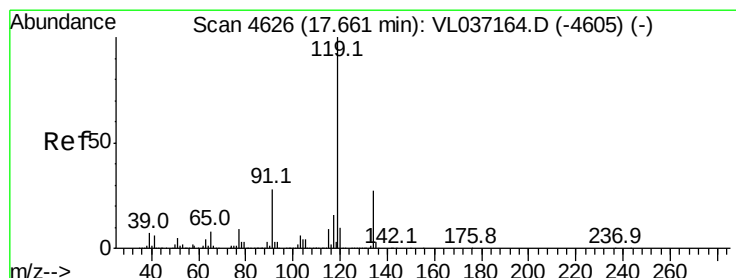
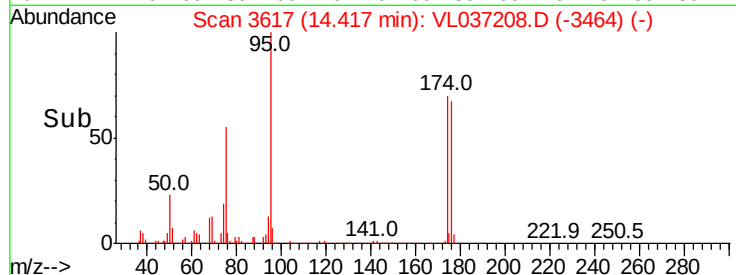
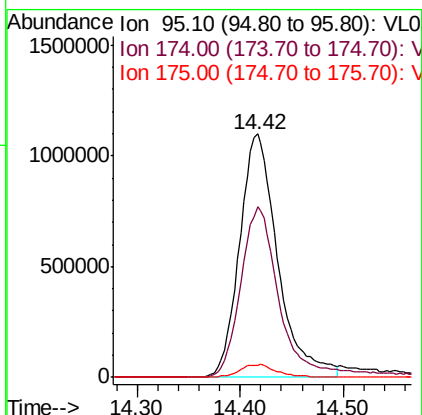
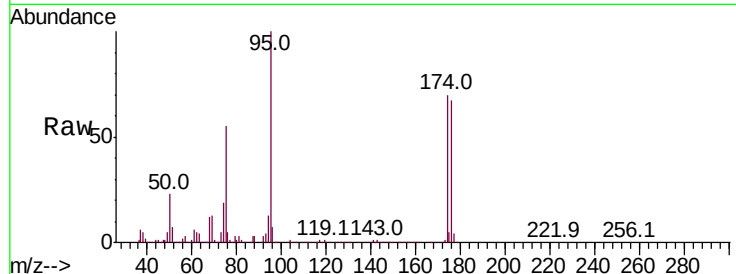
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.743 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037208.D
 Acq: 17 Jun 2021 19:20

Instrument :
 MSVOA_L
 ClientSampled :
 IA2DUP

Tot Ion	Ratio	Lower	Upper
95	100		
174	73.9	57.0	85.4
175	5.6	4.4	6.6

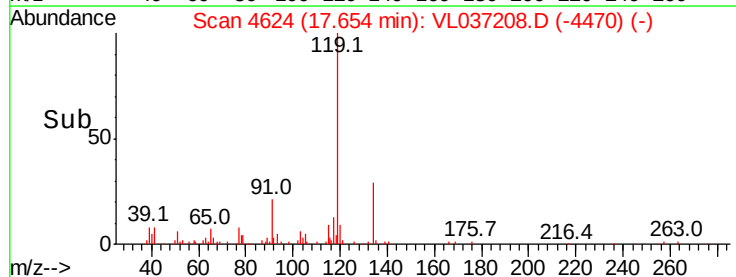
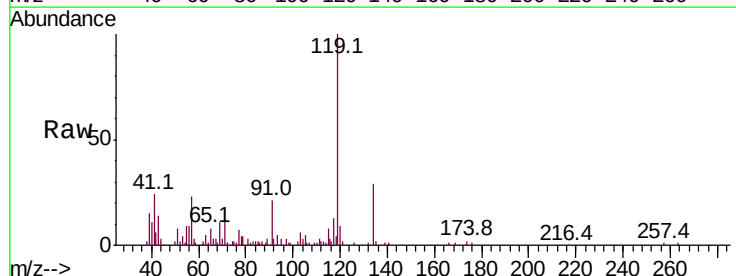
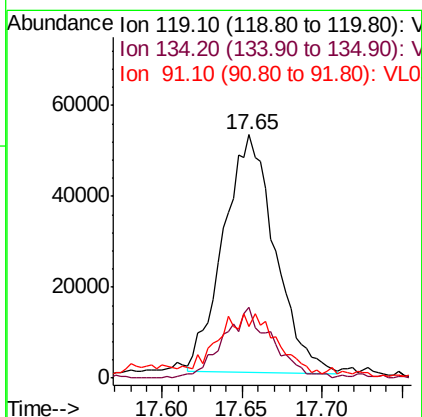
Manual Integrations
 APPROVED

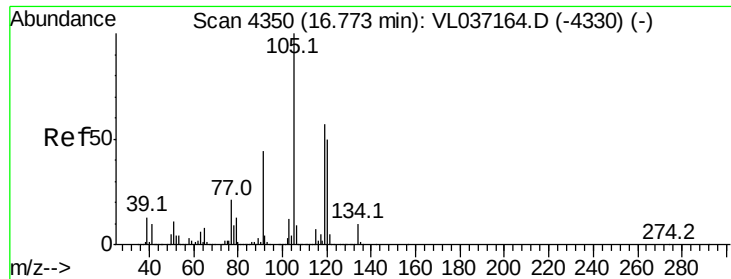
MMDadoda
 6/21/2021 12:58:27 PM



#69
 p-Isopropyltoluene
 Concen: 0.192 ppbv
 RT: 17.65 min Scan# 4624
 Delta R.T. -0.01 min
 Lab File: VL037208.D
 Acq: 17 Jun 2021 19:20

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.0	20.9	31.3
91	32.1	22.6	34.0





#74

1,2,4-Trimethylbenzene

Concen: 0.189 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. -0.01 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Instrument :

MSVOA_L

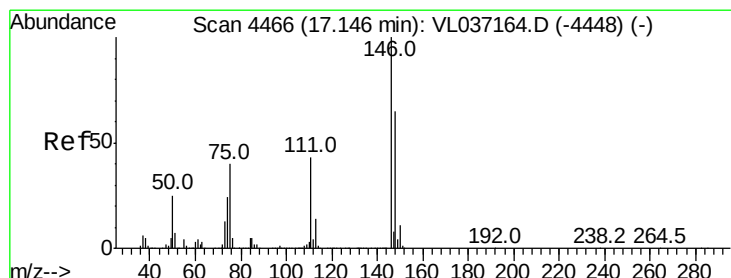
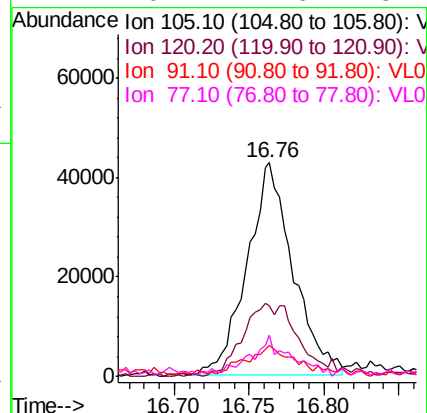
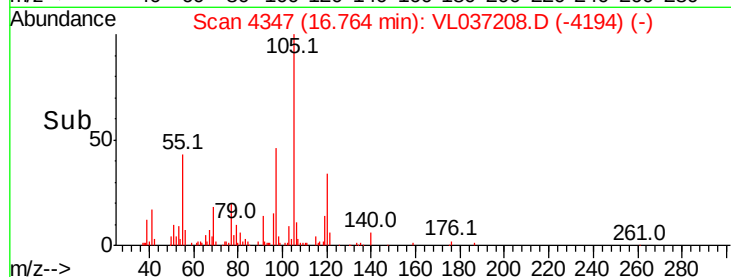
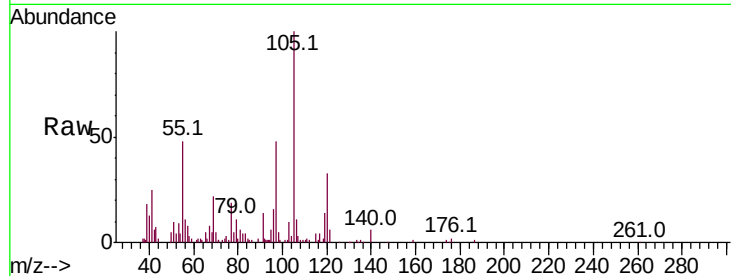
ClientSampleId :

IA2DUP

Tot Ion	Ratio	Lower	Upper
105	100		
120	32.7	39.8	59.8#
91	12.2	37.0	55.4#
77	16.7	17.0	25.4#

Manual Integrations
APPROVED

MMDadoda
6/21/2021 12:58:27 PM



#76

1,4-Dichlorobenzene

Concen: 0.101 ppbv m

RT: 17.14 min Scan# 4465

Delta R.T. -0.00 min

Lab File: VL037208.D

Acq: 17 Jun 2021 19:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.7	68.0#
148	0.0	33.7	101.1#

