

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036280.D
 Acq On : 28 Jan 2021 20:34
 Operator : SY/AP
 Sample : M1245-01 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Manual Integrations
 APPROVED

MMDadoda
 2/2/2021 2:31:37 PM

Quant Time: Feb 02 08:13:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

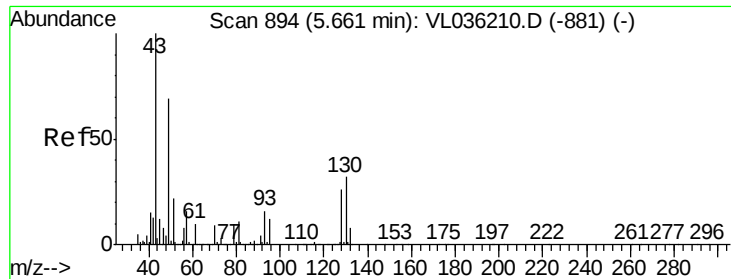
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1613520	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3536761	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3206988	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2746953	10.35	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	55762	0.281	ppbv	97
4) Chloromethane	3.13	50	43731	0.447	ppbv	98
9) Propene	3.00	41	35532m	0.377	ppbv	
10) Heptane	8.11	43	191651	0.818	ppbv	94
13) Ethanol	3.62	45	10327837	697.002	ppbv	85
15) Acetone	3.83	43	14585072	73.807	ppbv #	89
17) tert-Butyl alcohol	4.31	59	11615813	71.234	ppbv	98
19) Isopropyl Alcohol	3.99	45	1848222m	15.514	ppbv	
26) Hexane	5.67	57	325316	1.969	ppbv #	67
30) Cyclohexane	7.12	84	58238	0.461	ppbv	88
34) 2-Butanone	5.24	43	98536m	0.378	ppbv	
36) Benzene	6.88	78	239171	0.738	ppbv	95
44) 2,2,4-Trimethylpentane	7.85	57	264587	0.445	ppbv #	80
53) Toluene	9.79	91	2279116	6.287	ppbv	100
58) Ethyl Benzene	12.70	91	423840	0.891	ppbv	97
59) m/p-Xylene	12.95	91	1421349	3.476	ppbv	97
60) o-Xylene	13.68	91	465867	1.182	ppbv	96
72) 4-Ethyltoluene	15.83	105	123642m	0.278	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	56745	0.134	ppbv #	78
74) 1,2,4-Trimethylbenzene	16.75	105	302281	0.695	ppbv #	64

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



#1

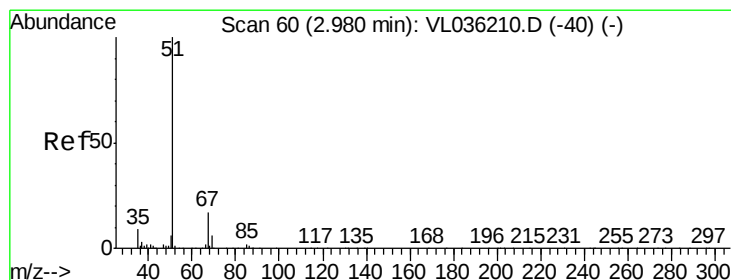
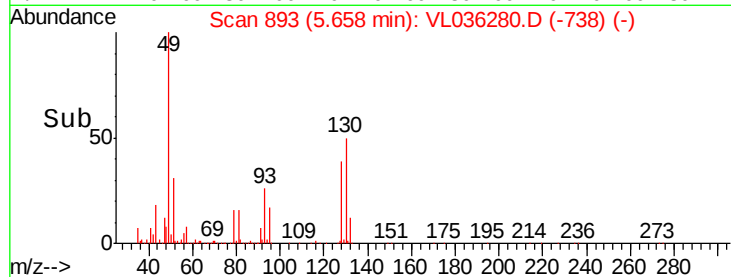
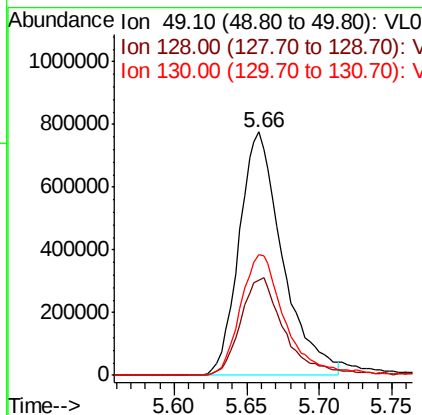
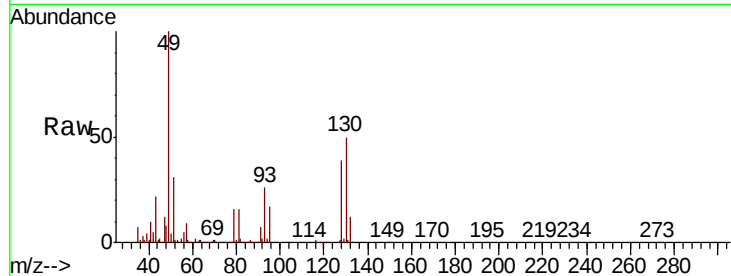
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.5	20.1	60.2
130	51.9	25.3	75.9

Manual Integrations
APPROVED

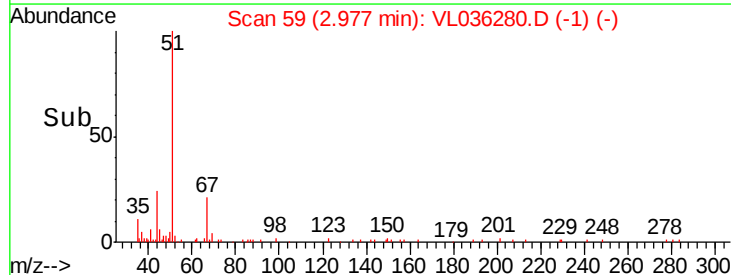
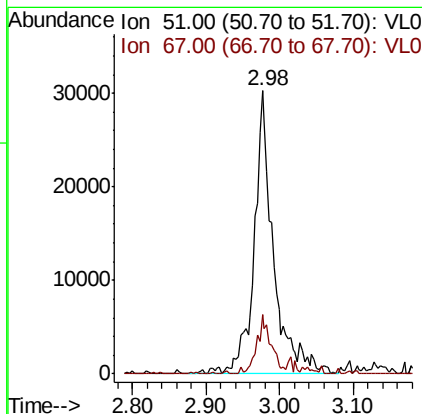
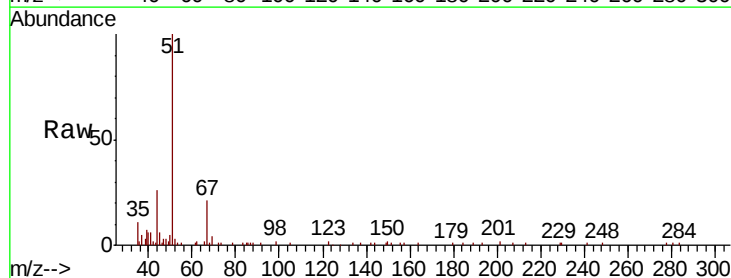
MMDadoda
2/2/2021 2:31:37 PM

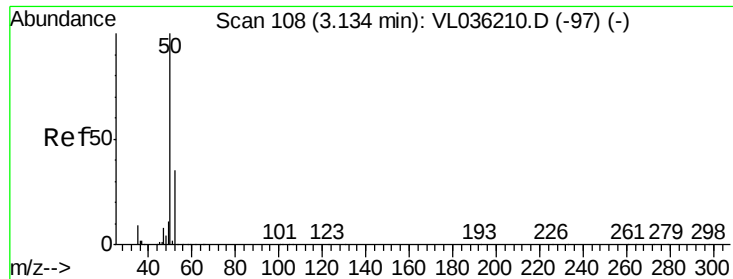


#3

Chlorodifluoromethane
Concen: 0.281 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.00 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Tgt Ion	Ratio	Lower	Upper
51	100		
67	18.7	14.0	21.0





#4

Chloromethane

Concen: 0.447 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036280.D

Acq: 28 Jan 2021 20:34

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 50 Resp: 43731

Ion Ratio Lower Upper

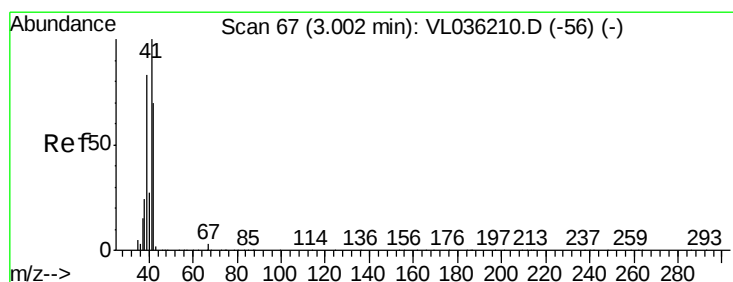
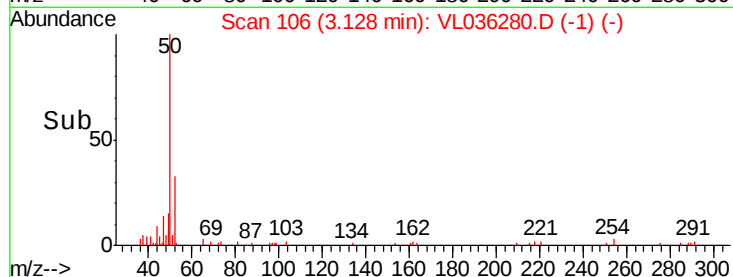
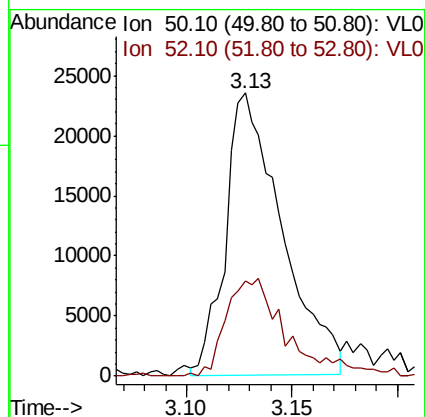
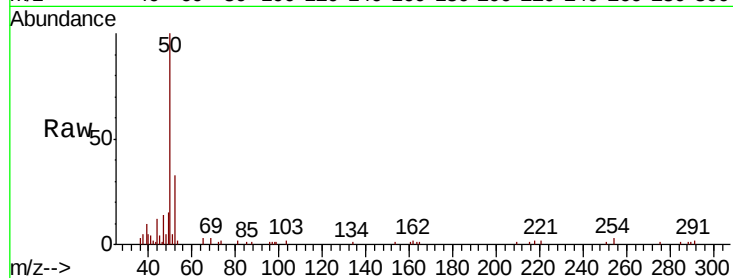
50 100

52 33.4 27.8 41.8

Manual Integrations
APPROVED

MMDadoda

2/2/2021 2:31:37 PM



#9

Propene

Concen: 0.377 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL036280.D

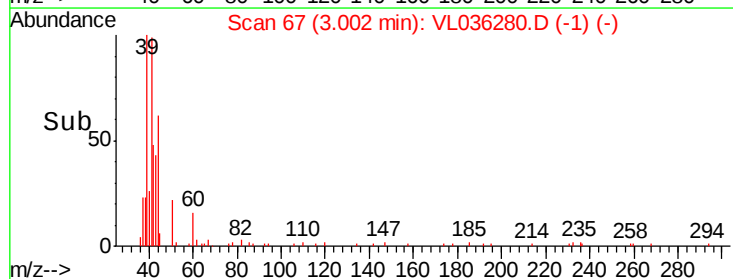
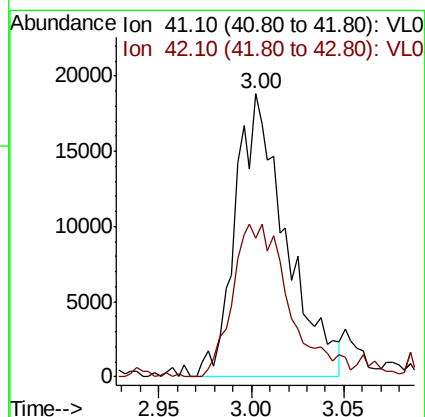
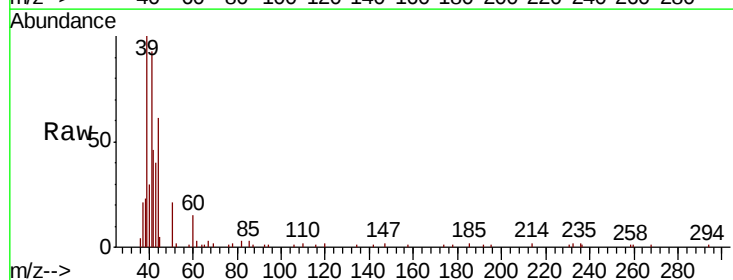
Acq: 28 Jan 2021 20:34

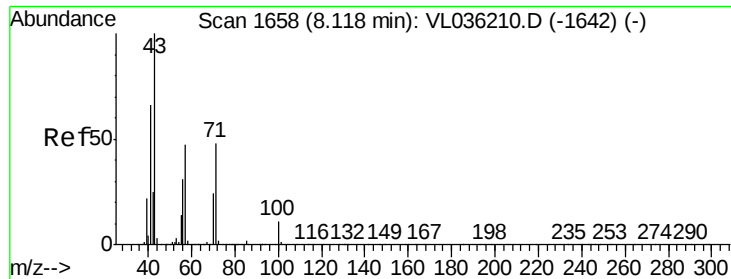
Tgt Ion: 41 Resp: 35532

Ion Ratio Lower Upper

41 100

42 66.1 57.1 85.7





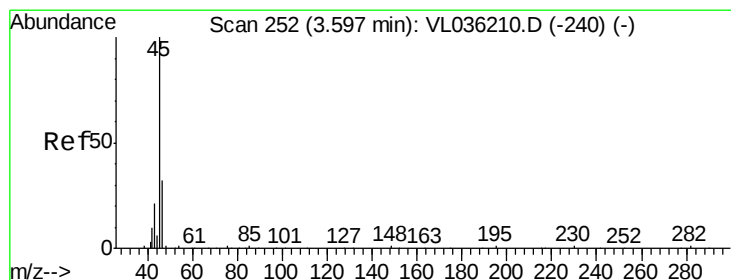
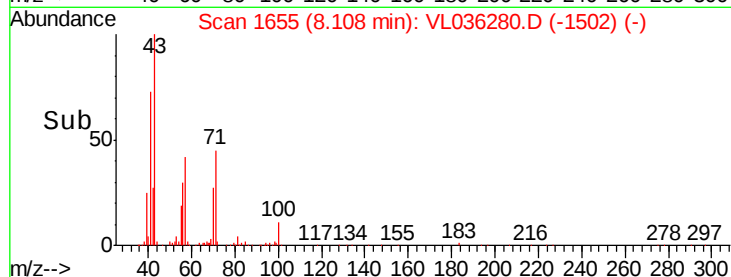
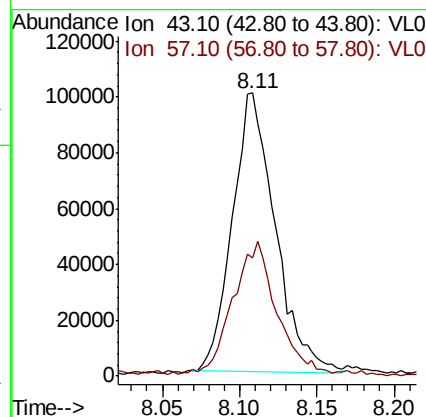
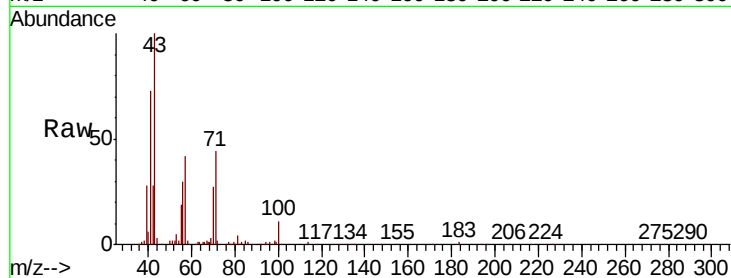
#10
Heptane
Concen: 0.818 ppbv
RT: 8.11 min Scan# 1655
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 43 Resp: 191651
Ion Ratio Lower Upper
43 100
57 51.8 38.1 57.1

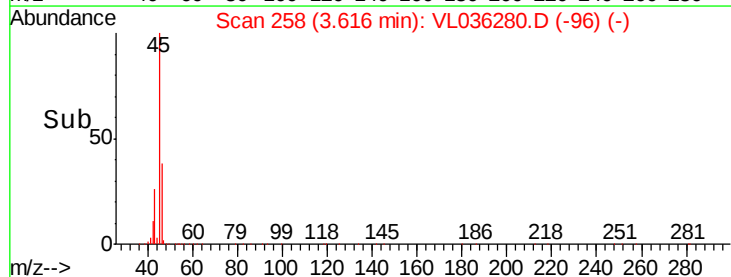
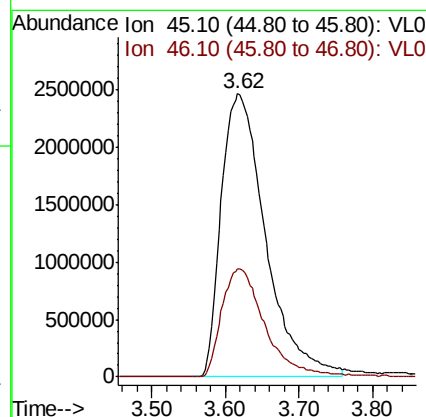
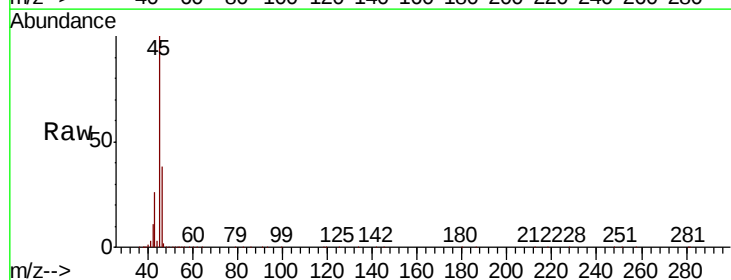
Manual Integrations
APPROVED

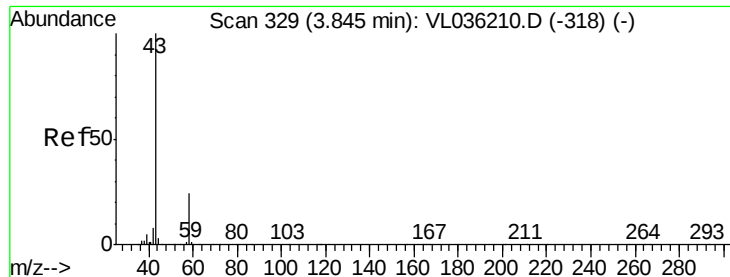
MMDadoda
2/2/2021 2:31:37 PM



#13
Ethanol
Concen: 697.002 ppbv
RT: 3.62 min Scan# 258
Delta R.T. 0.02 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Tgt Ion: 45 Resp:10327837
Ion Ratio Lower Upper
45 100
46 37.7 19.2 77.0





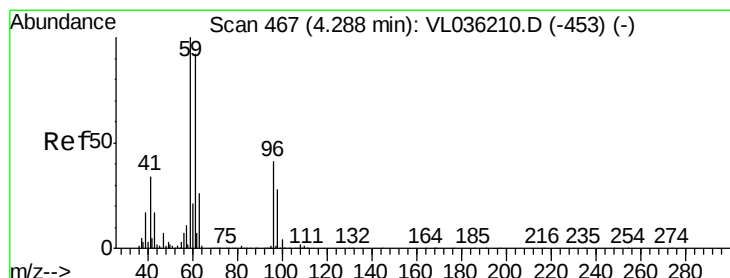
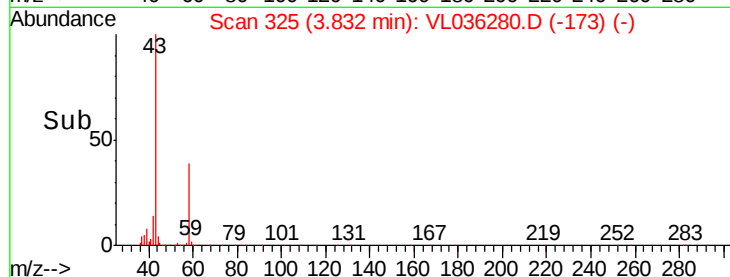
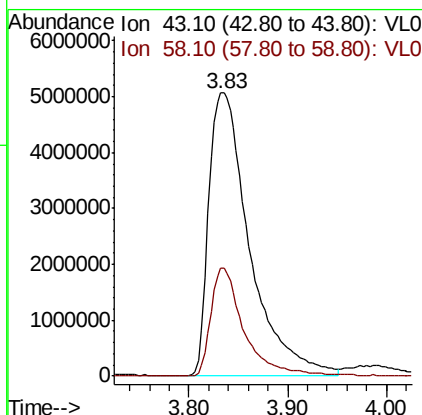
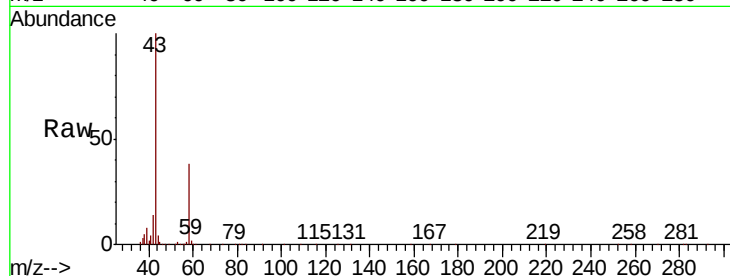
#15
Acetone
Concen: 73.807 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 43 Resp:14585072
Ion Ratio Lower Upper
43 100
58 31.9 20.9 31.3#

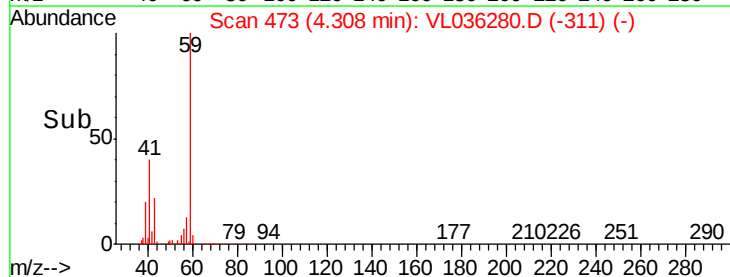
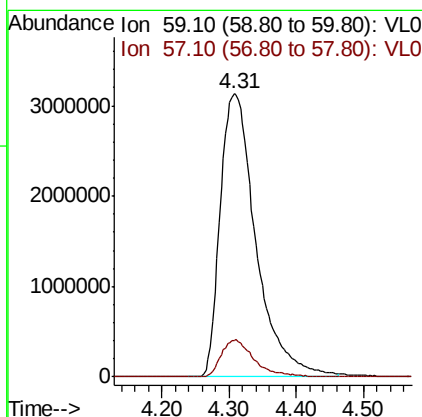
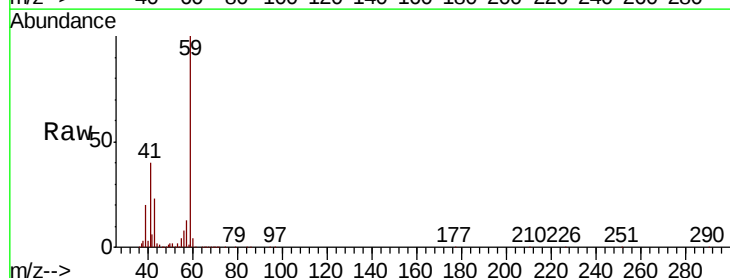
Manual Integrations
APPROVED

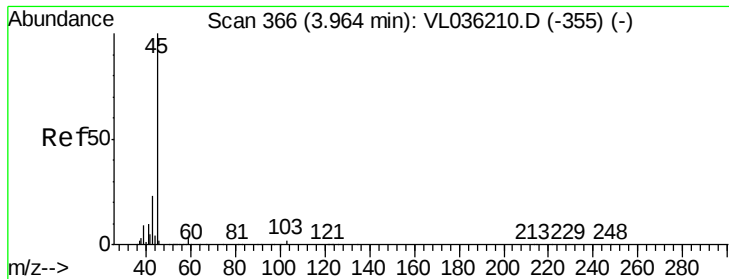
MMDadoda
2/2/2021 2:31:37 PM



#17
tert-Butyl alcohol
Concen: 71.234 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.02 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Tgt Ion: 59 Resp:11615813
Ion Ratio Lower Upper
59 100
57 12.2 9.2 13.8





#19

Isopropyl Alcohol

Concen: 15.514 ppbv m

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036280.D

Acq: 28 Jan 2021 20:34

Instrument :

MSVOA_L

ClientSampled :

SS-1

Tot Ion: 45 Resp: 1848222

Ion Ratio Lower Upper

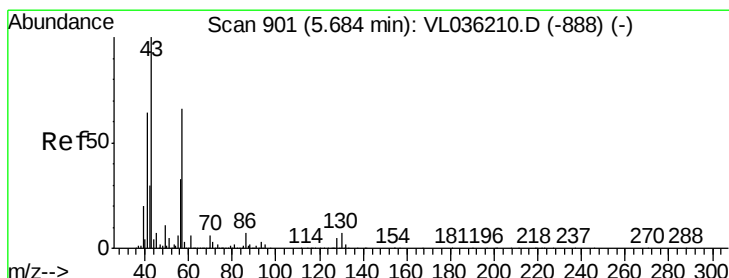
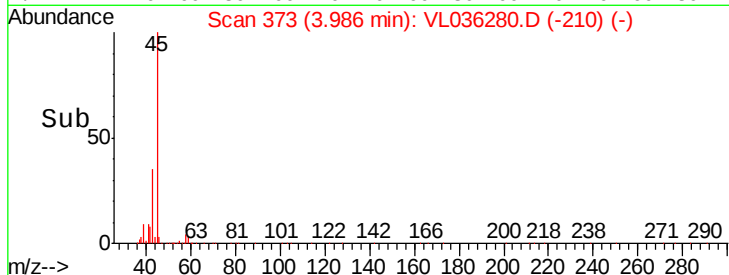
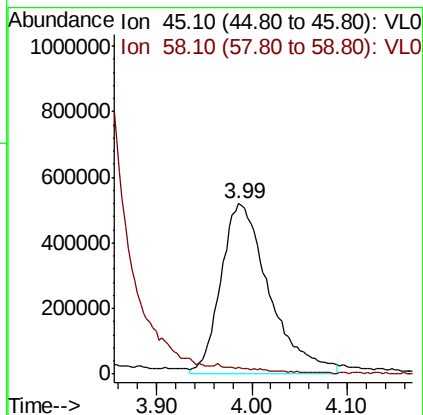
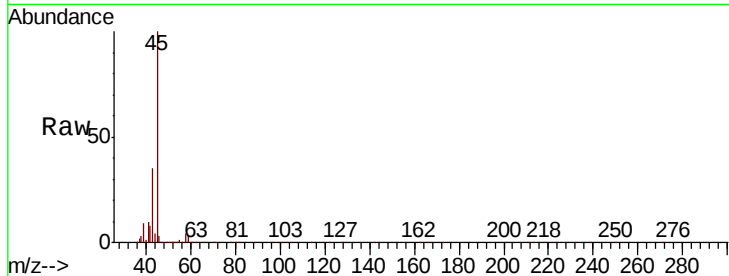
45 100

58 0.0 1.9 2.9#

Manual Integrations
APPROVED

MMDadoda

2/2/2021 2:31:37 PM



#26

Hexane

Concen: 1.969 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL036280.D

Acq: 28 Jan 2021 20:34

Tgt Ion: 57 Resp: 325316

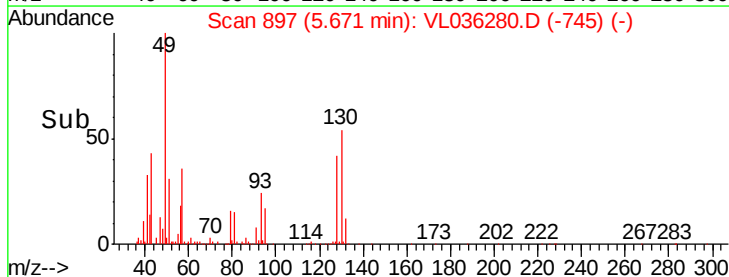
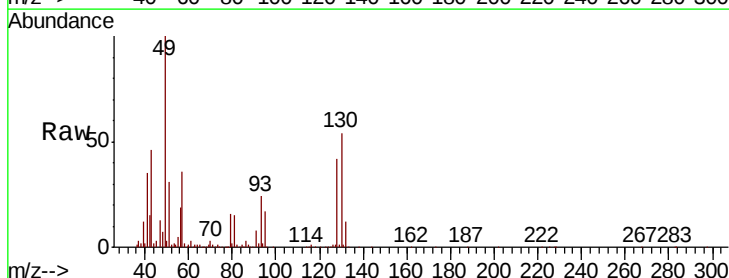
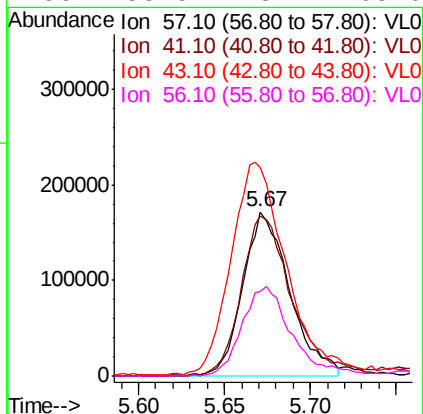
Ion Ratio Lower Upper

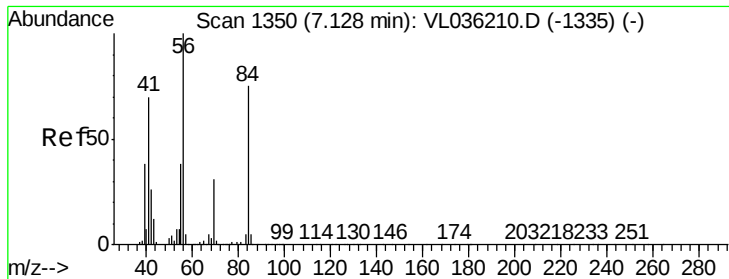
57 100

41 105.8 83.0 124.6

43 161.7 202.4 303.6#

56 58.5 43.4 65.0





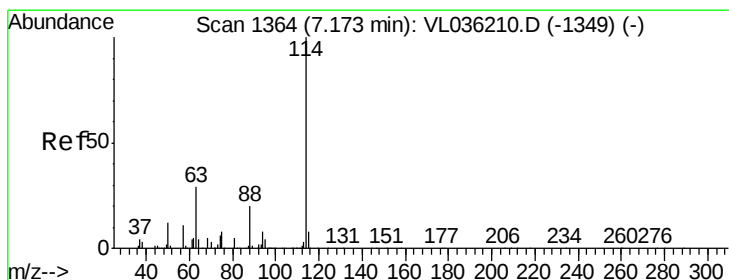
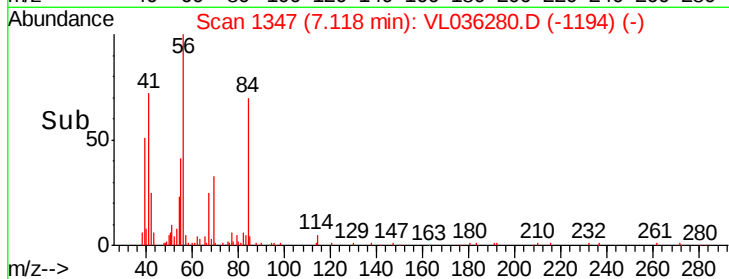
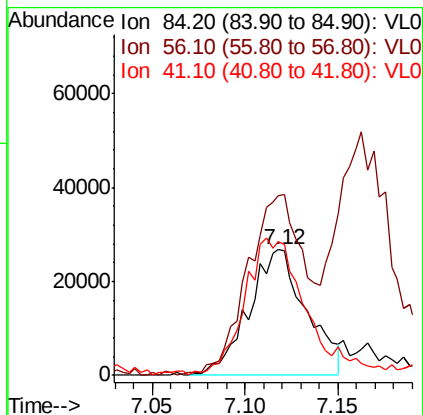
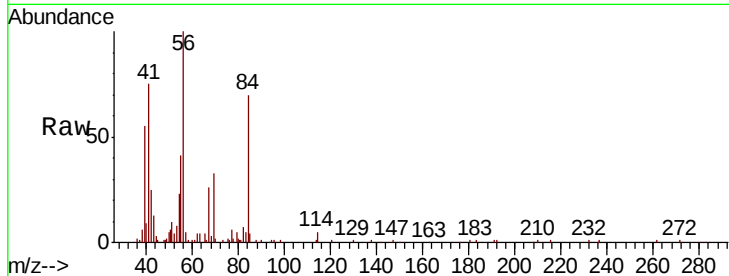
#30
Cyclohexane
Concen: 0.461 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	132.3	119.4	179.0
41	109.4	79.4	119.0

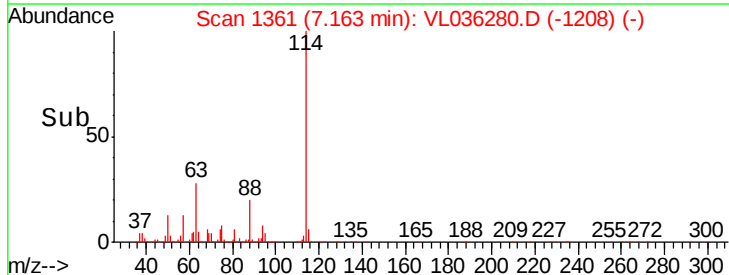
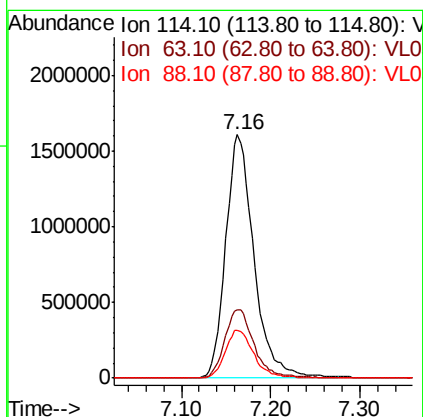
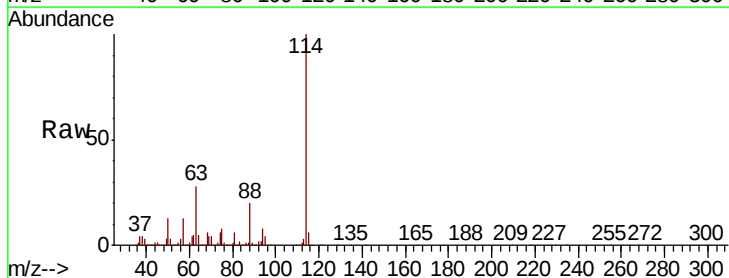
Manual Integrations
APPROVED

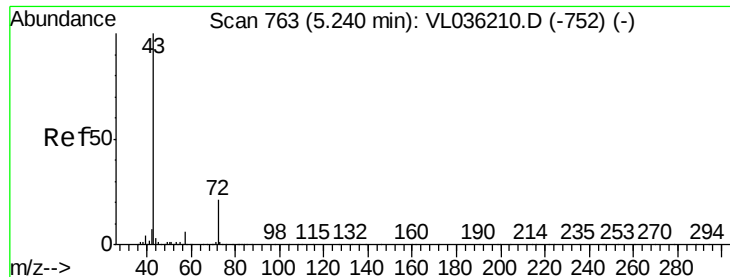
MMDadoda
2/2/2021 2:31:37 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.7	37.1
88	20.1	16.6	24.8





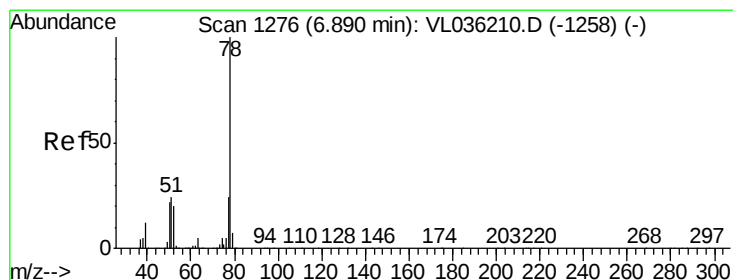
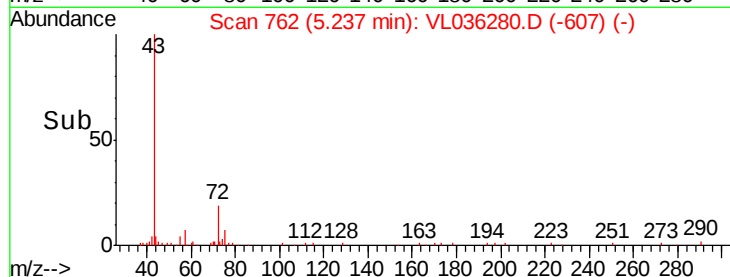
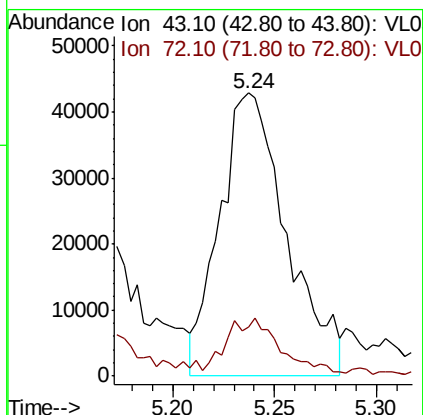
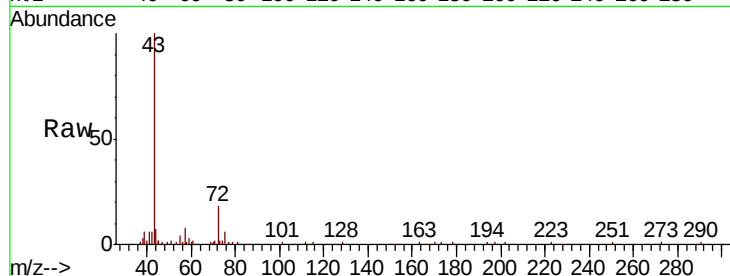
#34
2-Butanone
Concen: 0.378 ppbv m
RT: 5.24 min Scan# 762
Delta R.T. -0.00 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 43 Resp: 98536
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#

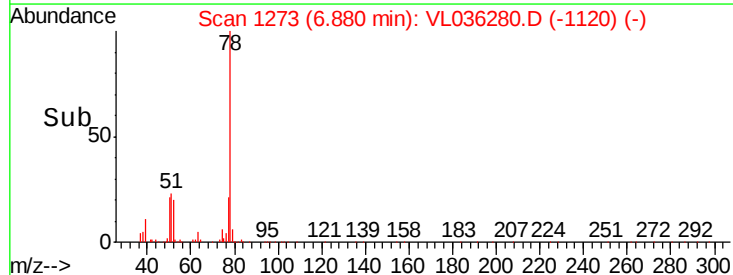
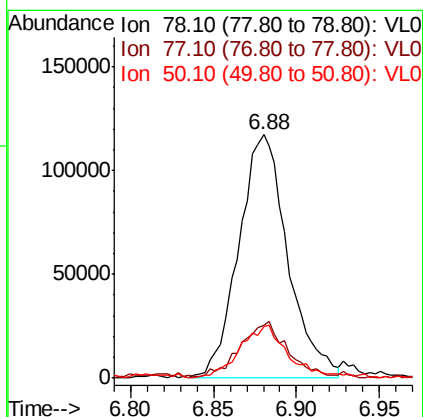
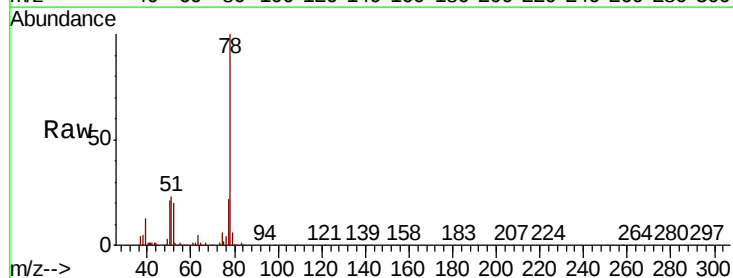
Manual Integrations
APPROVED

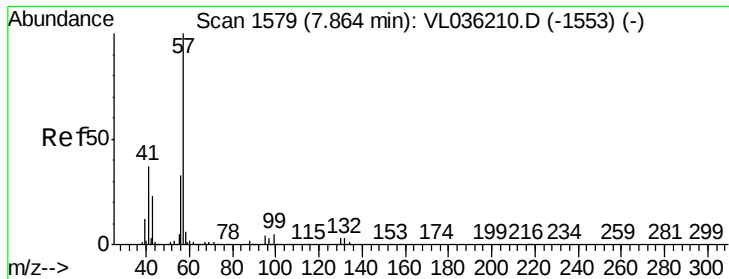
MMDadoda
2/2/2021 2:31:37 PM



#36
Benzene
Concen: 0.738 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Tgt Ion: 78 Resp: 239171
Ion Ratio Lower Upper
78 100
77 20.5 19.4 29.0
50 21.1 17.4 26.2





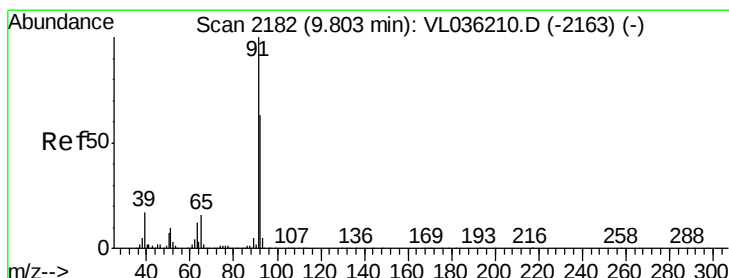
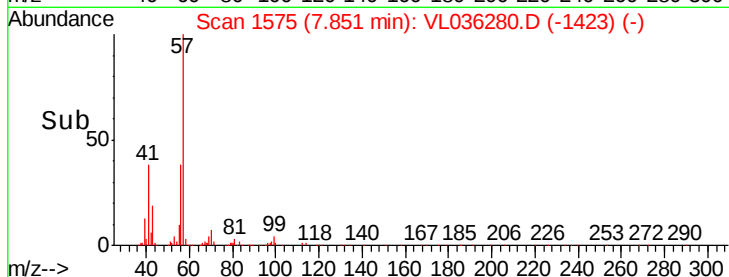
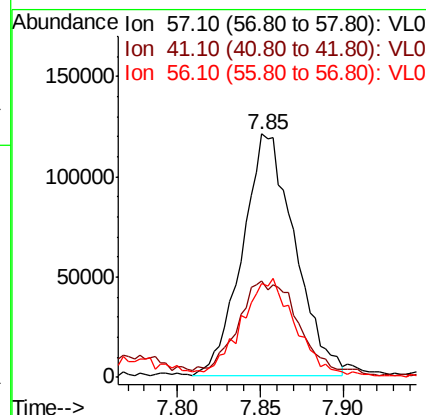
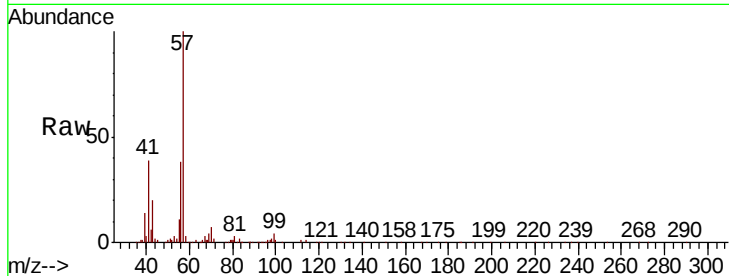
#44
 2,2,4-Trimethylpentane
 Concen: 0.445 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: VL036280.D
 Acq: 28 Jan 2021 20:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	48.5	28.5	42.7#
56	42.1	25.5	38.3#

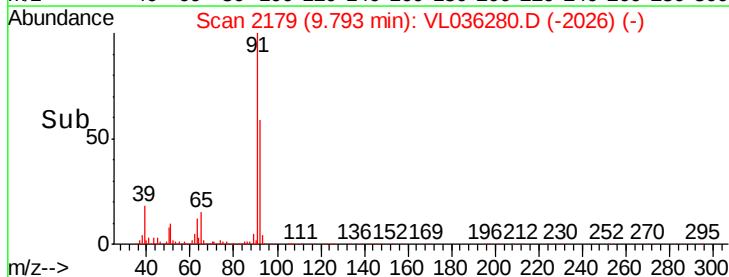
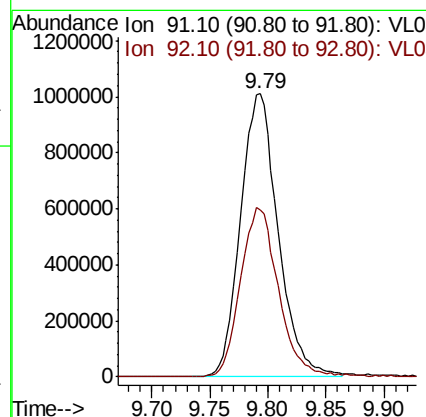
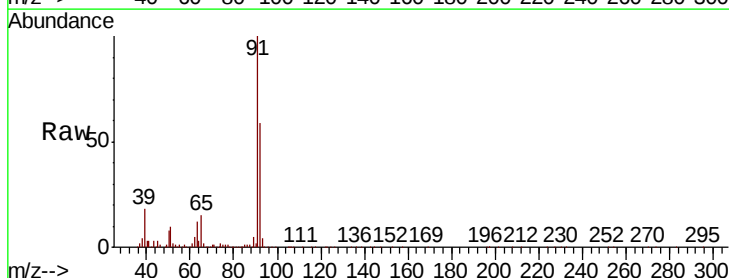
Manual Integrations
 APPROVED

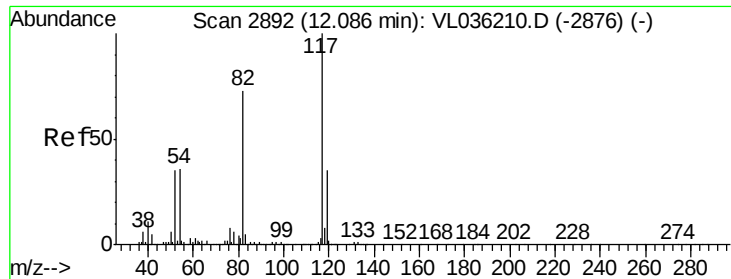
MMDadoda
 2/2/2021 2:31:37 PM



#53
 Toluene
 Concen: 6.287 ppbv
 RT: 9.79 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: VL036280.D
 Acq: 28 Jan 2021 20:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.5	72.7





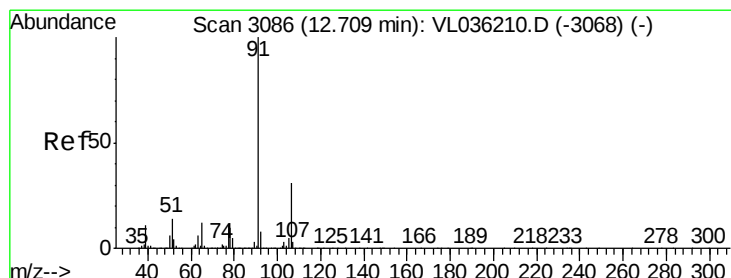
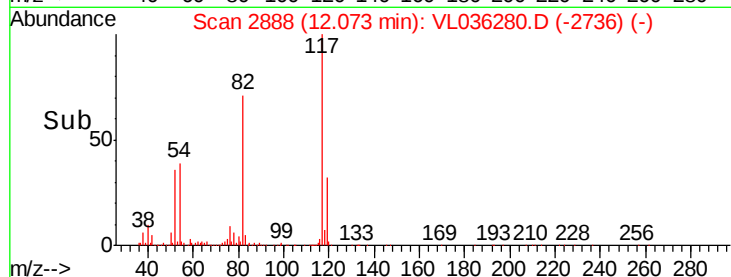
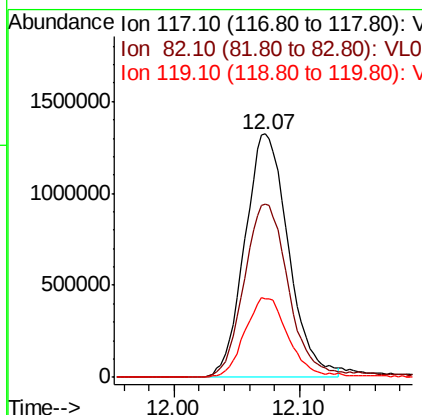
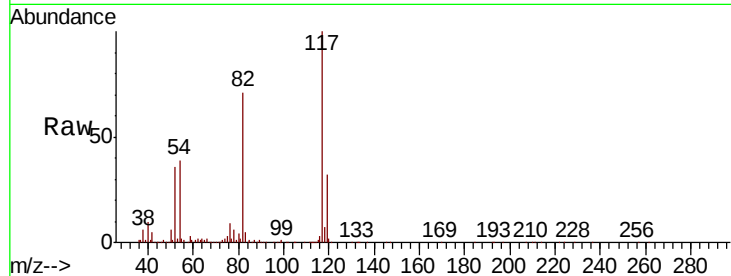
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	75.0	59.7	89.5
119	33.9	28.6	43.0

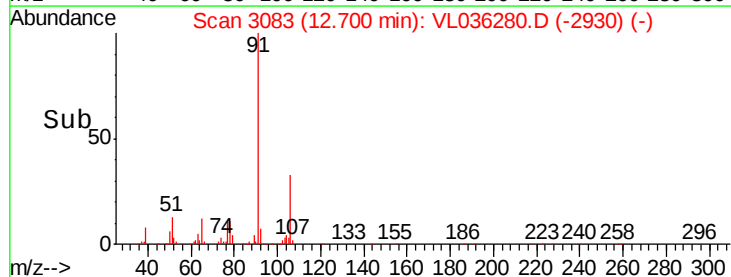
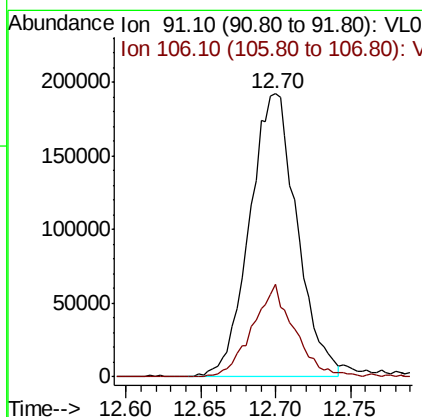
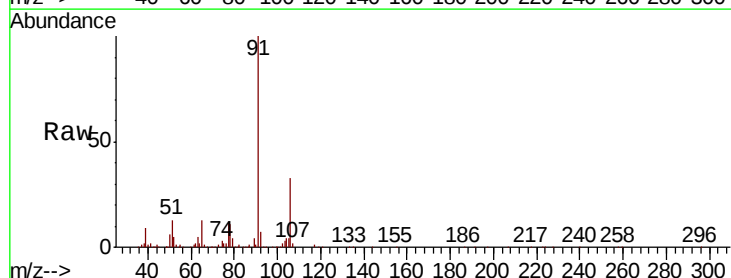
Manual Integrations
APPROVED

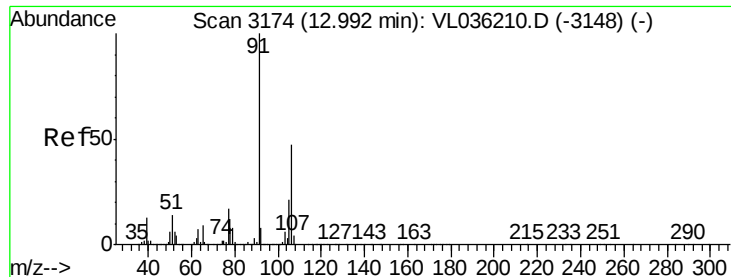
MMDadoda
2/2/2021 2:31:37 PM



#58
Ethyl Benzene
Concen: 0.891 ppbv
RT: 12.70 min Scan# 3083
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.6	24.8	37.2





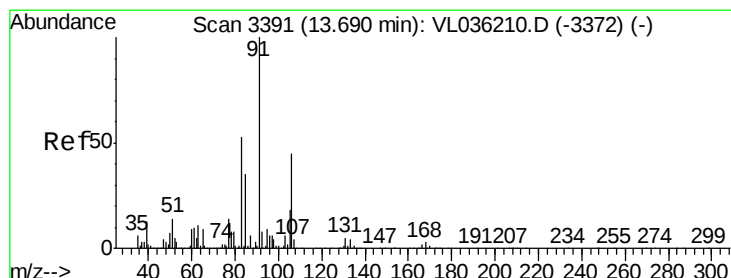
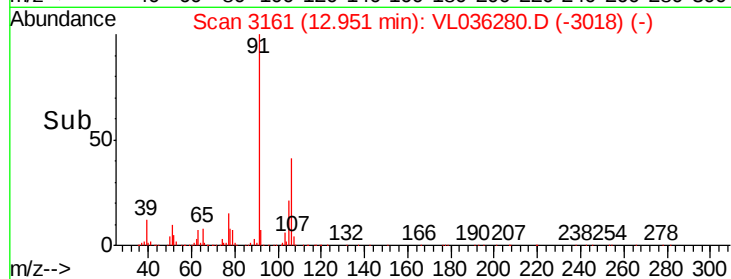
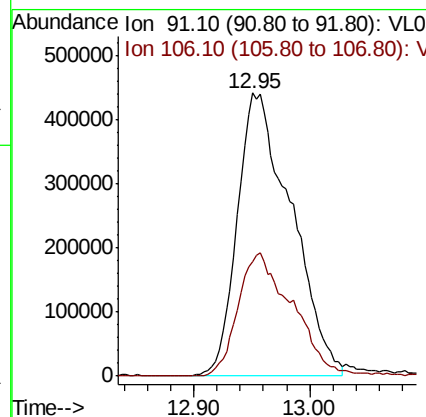
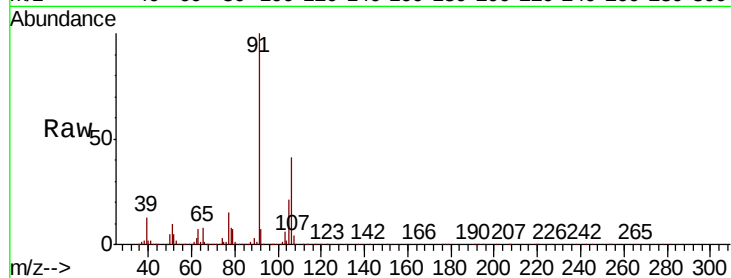
#59
m/p-Xylene
Concen: 3.476 ppbv
RT: 12.95 min Scan# 3161
Delta R.T. -0.04 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Instrument :
MSVOA_L
ClientSampled :
SS-1

Tot Ion: 91 Resp: 1421349
Ion Ratio Lower Upper
91 100
106 44.9 34.6 51.8

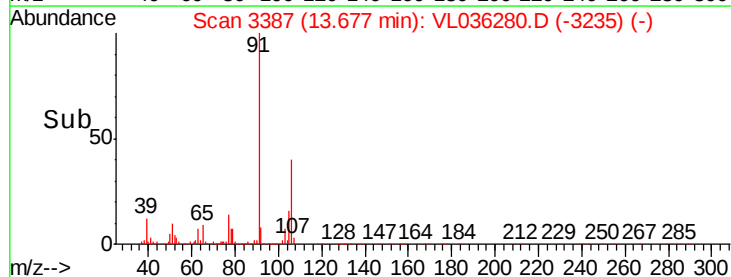
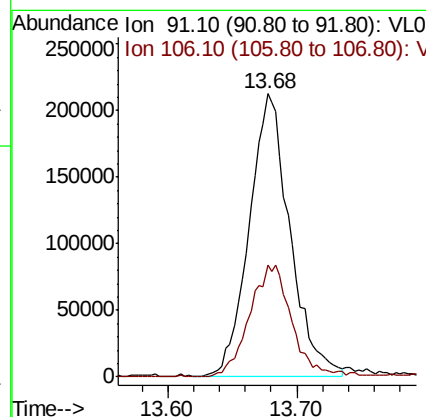
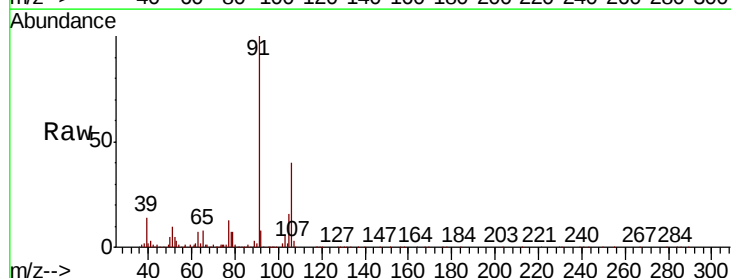
Manual Integrations
APPROVED

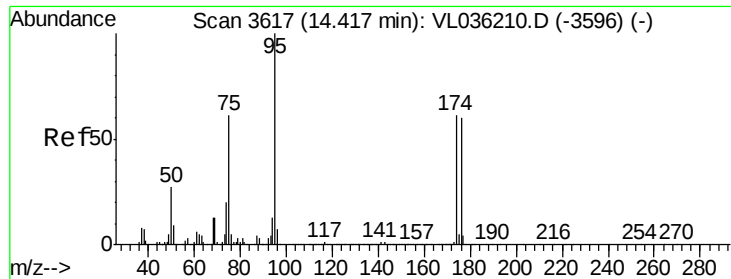
MMDadoda
2/2/2021 2:31:37 PM



#60
o-Xylene
Concen: 1.182 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.01 min
Lab File: VL036280.D
Acq: 28 Jan 2021 20:34

Tgt Ion: 91 Resp: 465867
Ion Ratio Lower Upper
91 100
106 41.3 21.9 65.8





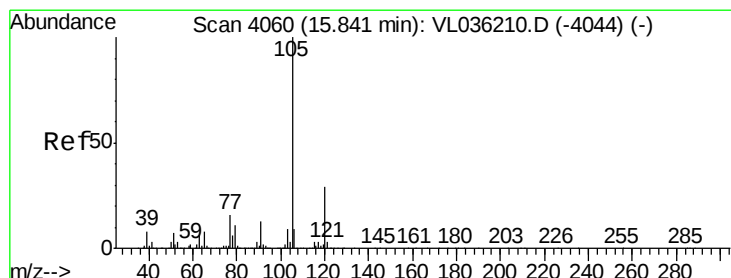
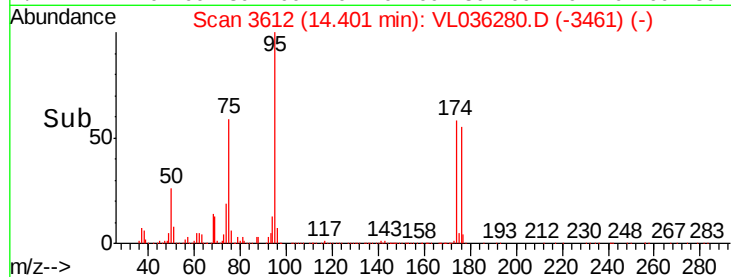
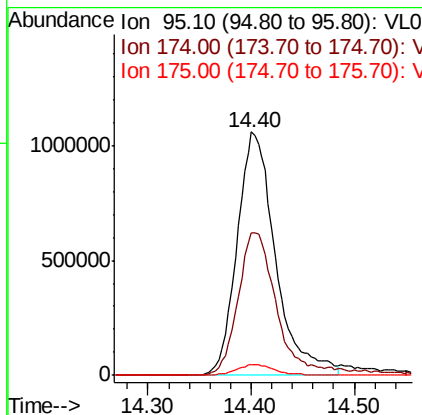
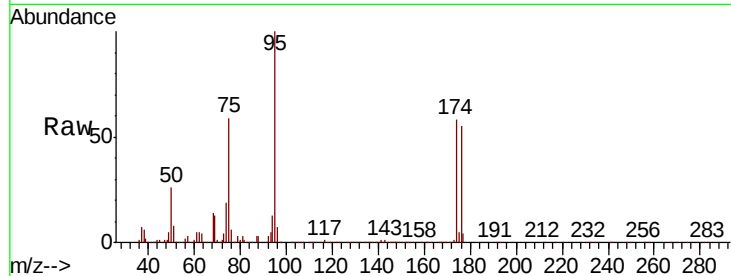
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.348 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.02 min
 Lab File: VL036280.D
 Acq: 28 Jan 2021 20:34

Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

Tot Ion: 95 Resp: 2746953
 Ion Ratio Lower Upper
 95 100
 174 62.0 49.4 74.0
 175 4.6 3.8 5.8

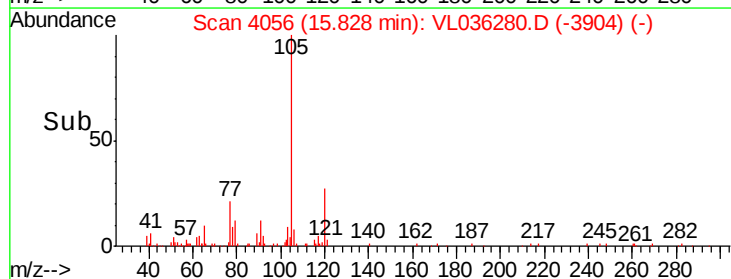
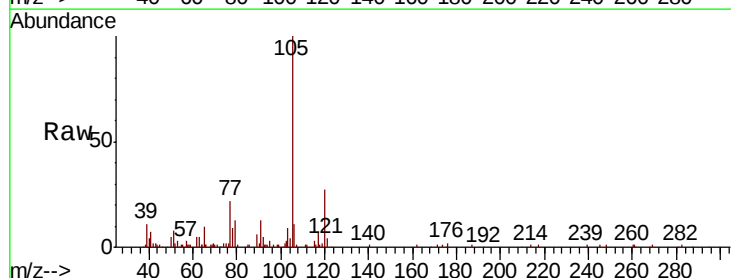
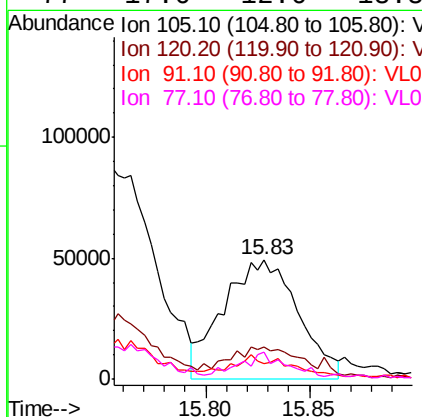
Manual Integrations
 APPROVED

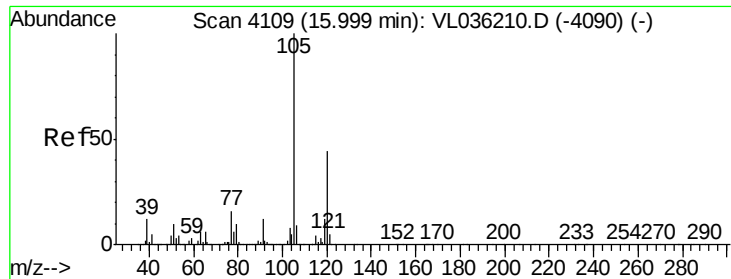
MMDadoda
 2/2/2021 2:31:37 PM



#72
 4-Ethyltoluene
 Concen: 0.278 ppbv m
 RT: 15.83 min Scan# 4056
 Delta R.T. -0.01 min
 Lab File: VL036280.D
 Acq: 28 Jan 2021 20:34

Tgt Ion: 105 Resp: 123642
 Ion Ratio Lower Upper
 105 100
 120 31.3 23.7 35.5
 91 18.0 11.9 17.9#
 77 17.6 12.6 18.8





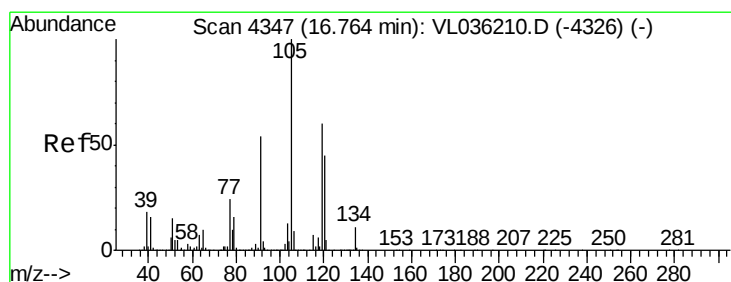
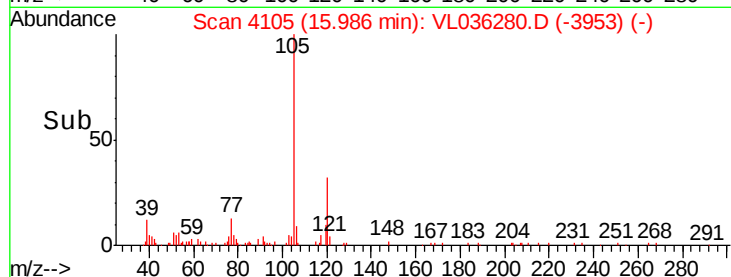
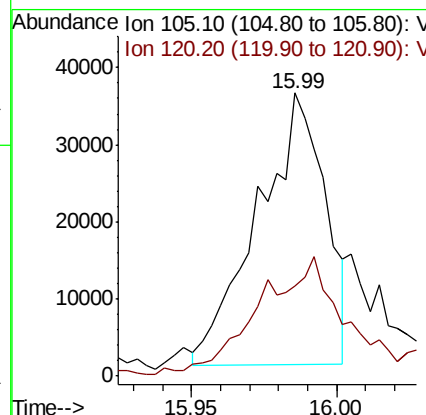
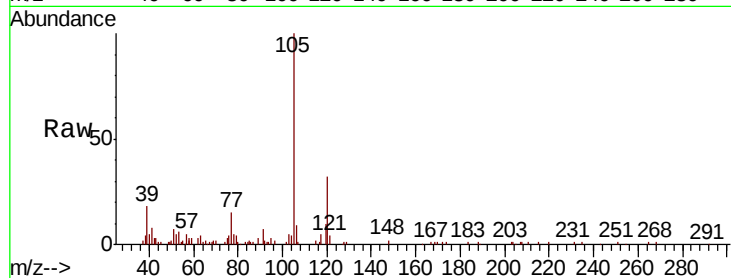
#73
 1,3,5-Trimethylbenzene
 Concen: 0.134 ppbv
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.01 min
 Lab File: VL036280.D
 Acq: 28 Jan 2021 20:34

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tot Ion	Ratio	Lower	Upper
105	100		
120	29.9	35.5	53.3#

Manual Integrations
 APPROVED

MMDadoda
 2/2/2021 2:31:37 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.695 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.02 min
 Lab File: VL036280.D
 Acq: 28 Jan 2021 20:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	36.5	36.2	54.2
91	9.6	43.3	64.9#
77	14.2	19.1	28.7#

