

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035774.D
 Acq On : 12 Oct 2020 23:00
 Operator : SY/AP
 Sample : L4214-13 LOD 0.4
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:12:00 PM

Quant Time: Oct 13 02:02:51 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 2

QLast Update : Wed Sep 23 07:38:05 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	984085	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	3982942	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3861813	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2838638	9.81	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	107556	0.666 ppbv	97
3) Chlorodifluoromethane	2.98	51	49959	0.472 ppbv	99
4) Chloromethane	3.13	50	28907	0.508 ppbv	96
5) Vinyl Chloride	3.25	62	31015	0.461 ppbv	92
6) Bromomethane	3.47	94	26713	0.470 ppbv	94
7) Chloroethane	3.55	64	11138	0.451 ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	100687	0.514 ppbv	99
9) Propene	3.01	41	19348	0.503 ppbv	90
10) Heptane	8.13	43	40970m	0.382 ppbv	
11) Trichlorofluoromethane	3.94	101	112345	0.488 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	84923	0.494 ppbv	97
13) Ethanol	3.61	45	4835	0.510 ppbv	82
14) Bromoethene	3.73	108	33270	0.460 ppbv	96
15) Acetone	3.86	43	62261	0.588 ppbv #	84
16) 1,3-Butadiene	3.33	39	17069	0.441 ppbv	99
17) tert-Butyl alcohol	4.31	59	63875	0.554 ppbv	100
18) 1,1-Dichloroethene	4.29	96	35912	0.478 ppbv	86
19) Isopropyl Alcohol	3.98	45	30354	0.527 ppbv #	92
20) Methylene Chloride	4.34	84	46035	0.592 ppbv	97
21) Allyl Chloride	4.41	41	22274	0.434 ppbv	94
22) trans-1,2-Dichloroethene	4.88	96	38461	0.484 ppbv	95
23) Vinyl Acetate	5.07	43	60228	0.464 ppbv #	95
24) 1,1-Dichloroethane	5.01	63	69614	0.493 ppbv	93
25) Ethyl Acetate	5.68	43	88459	0.464 ppbv	100
26) Hexane	5.69	57	45759	0.438 ppbv	91
27) Carbon Disulfide	4.55	76	63211	0.406 ppbv	97
28) Methyl tert-Butyl Ether	5.05	73	77153	0.466 ppbv	99
29) Chloroform	5.75	83	104679	0.494 ppbv	99
30) Cyclohexane	7.13	84	38557	0.374 ppbv #	29
31) cis-1,2-Dichloroethene	5.55	61	42268	0.419 ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	87714	0.469 ppbv	98
34) 2-Butanone	5.26	43	54060	0.410 ppbv	98
35) Carbon Tetrachloride	7.02	117	86137	0.415 ppbv	96
36) Benzene	6.90	78	105503	0.407 ppbv	95
37) 1,2-Dichloroethane	6.30	62	59081	0.437 ppbv	100
38) Trichloroethene	7.84	130	54628	0.422 ppbv	97
39) 1,2-Dichloropropane	7.61	63	40203	0.427 ppbv	95
40) 1,4-Dioxane	7.88	88	21522m	0.500 ppbv	
41) Tetrahydrofuran	6.07	42	22095	0.333 ppbv	94
42) Bromodichloromethane	7.79	83	86385	0.396 ppbv	91
43) Methyl Methacrylate	8.02	69	35123	0.340 ppbv	95

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MMDadoda
 10/14/2020 2:12:00 PM

Quant Time: Oct 13 02:02:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	146411	0.393	ppbv	97
45) t-1,3-Dichloropropene	9.29	75	31281	0.300	ppbv	98
46) cis-1,3-Dichloropropene	8.71	75	40978	0.319	ppbv	93
47) 1,1,2-Trichloroethane	9.48	97	58394m	0.433	ppbv	
48) Dibromochloromethane	10.31	129	73386	0.358	ppbv	96
49) Bromoform	13.06	173	57063	0.328	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	65774	0.342	ppbv	98
51) 2-Hexanone	10.17	43	48181	0.311	ppbv #	90
52) Tetrachloroethene	11.23	164	55486	0.445	ppbv	96
53) Toluene	9.81	91	107147	0.350	ppbv	96
54) 1,2-Dibromoethane	10.62	107	83150	0.412	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	68409	0.422	ppbv #	1
57) Chlorobenzene	12.16	112	145015	0.497	ppbv #	89
58) Ethyl Benzene	12.73	91	144561	0.373	ppbv #	88
59) m/p-Xylene	13.01	91	281099m	0.830	ppbv	
60) o-Xylene	13.71	91	134287	0.392	ppbv	99
61) Styrene	13.55	104	71186	0.301	ppbv	97
62) Isopropylbenzene	14.69	105	229083m	0.431	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	126094	0.449	ppbv	99
64) n-propylbenzene	15.58	120	62715m	0.403	ppbv	
65) tert-Butylbenzene	16.77	119	197258	0.409	ppbv	96
66) Benzyl Chloride	17.01	91	50127m	0.343	ppbv	
67) sec-Butylbenzene	17.32	105	271843	0.408	ppbv	95
69) p-Isopropyltoluene	17.68	119	213543	0.394	ppbv	94
70) n-Butylbenzene	18.57	91	219298	0.393	ppbv	90
71) 2-Chlorotoluene	15.47	91	151748	0.392	ppbv	97
72) 4-Ethyltoluene	15.86	105	150329	0.371	ppbv	97
73) 1,3,5-Trimethylbenzene	16.02	105	144606	0.377	ppbv	88
74) 1,2,4-Trimethylbenzene	16.78	105	181400	0.420	ppbv	94
75) 1,3-Dichlorobenzene	17.02	146	151141	0.512	ppbv	98
76) 1,4-Dichlorobenzene	17.16	146	126771	0.450	ppbv	97
77) 1,2-Dichlorobenzene	17.83	146	130583	0.469	ppbv	98
78) Hexachloro-1,3-Butadiene	23.40	225	62917m	0.409	ppbv	
79) Naphthalene	22.24	128	139850	0.339	ppbv	97
80) Naphthalene, 2-methyl-	25.00	142	12095	0.124	ppbv	94
81) 1,2,4-Trichlorobenzene	21.97	180	91454m	0.428	ppbv	

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

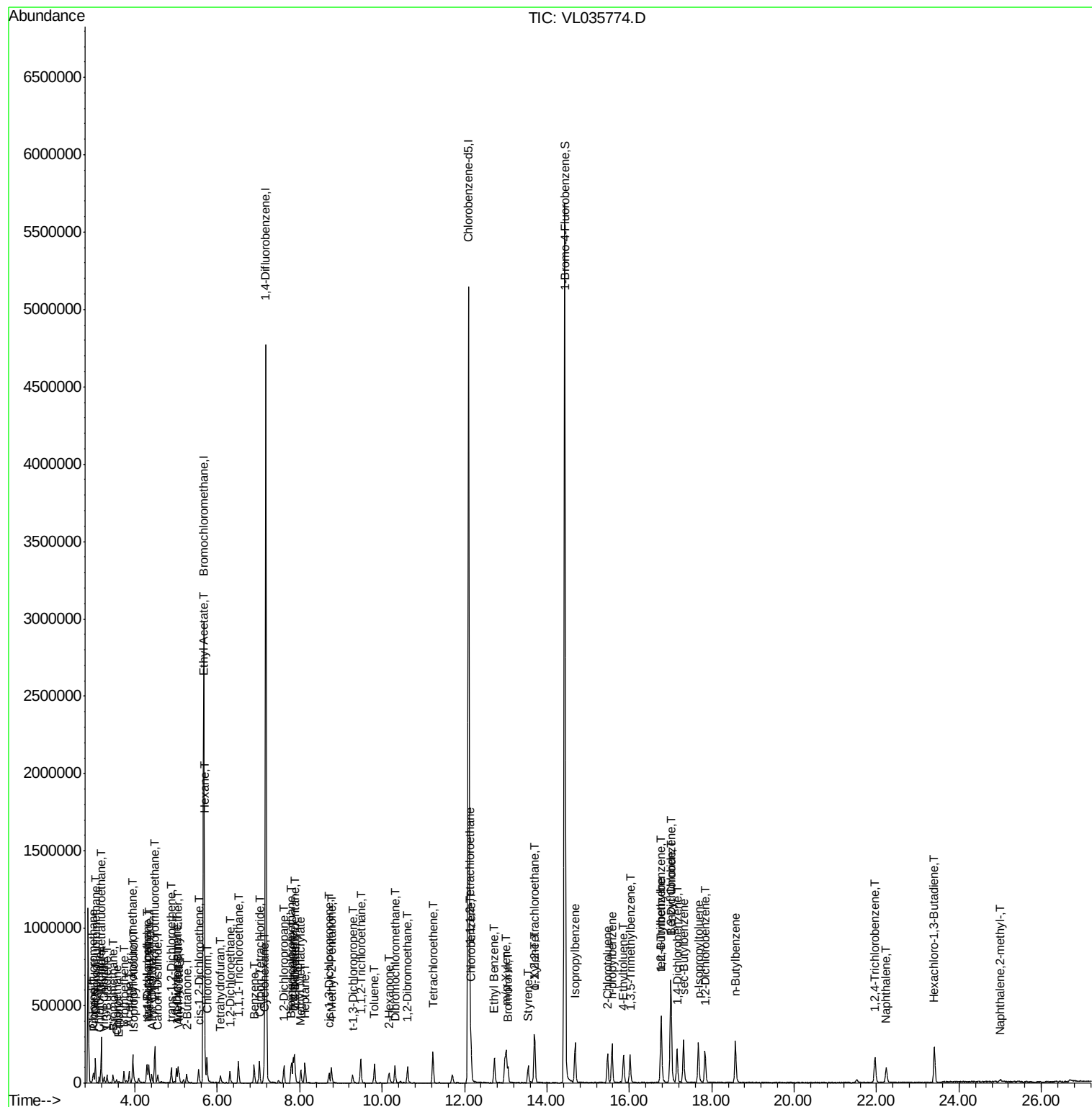
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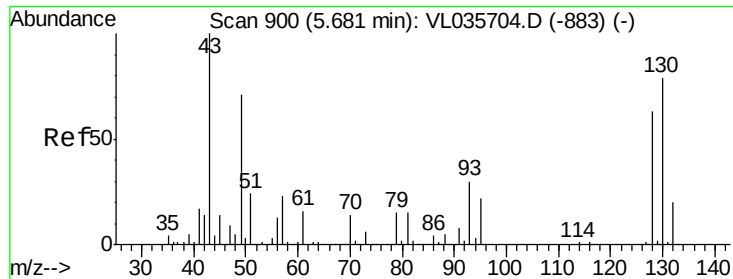
Instrument :
MSVOA_L
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QLast Update : Wed Sep 23 07:38:05 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

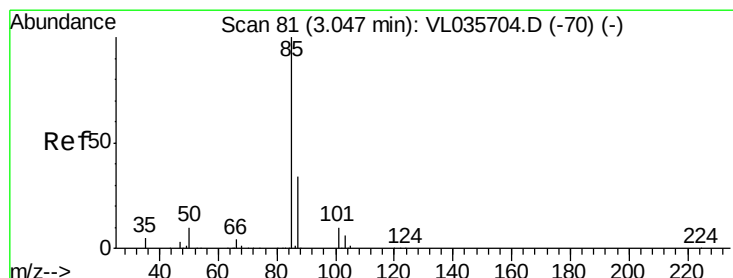
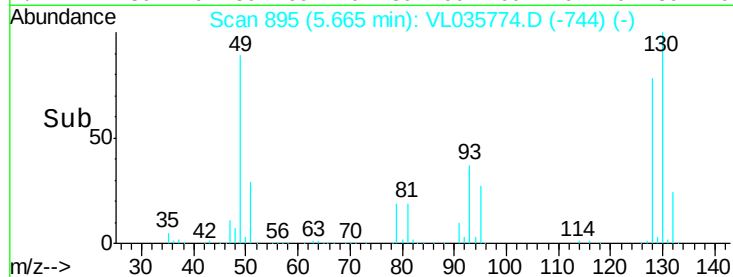
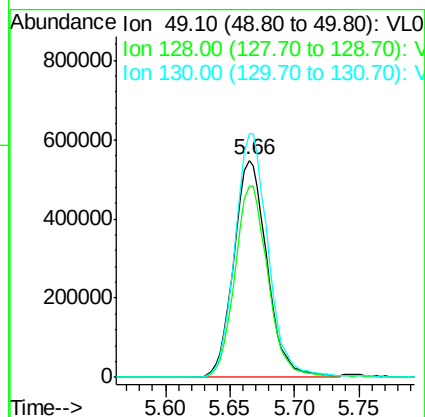
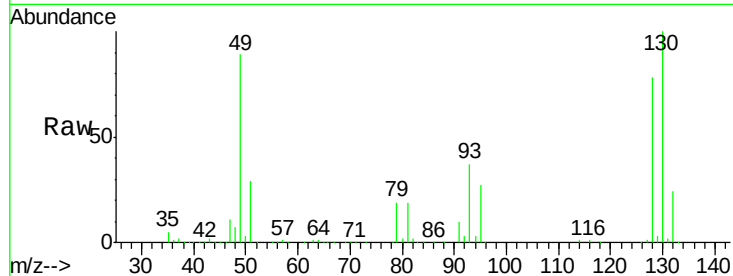
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	49	Resp:	984085
Ion	Ratio	Lower	Upper
49	100		
128	88.3	43.1	129.4
130	112.7	54.9	164.7

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.666 ppbv

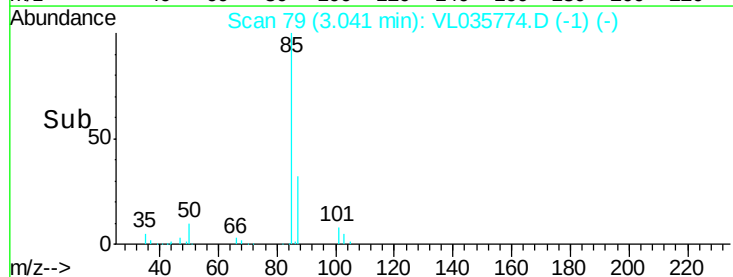
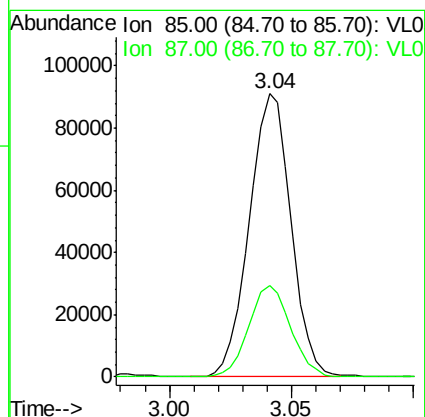
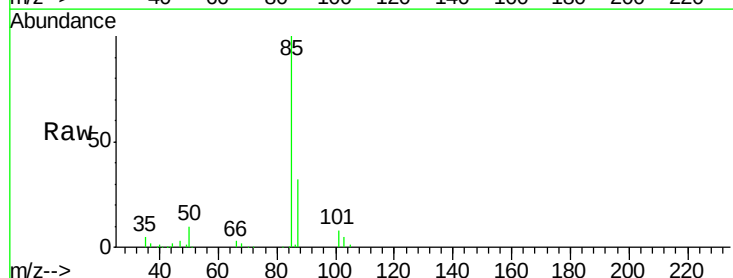
RT: 3.04 min Scan# 79

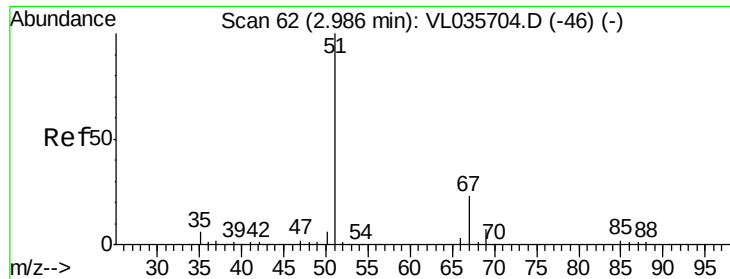
Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:	85	Resp:	107556
Ion	Ratio	Lower	Upper
85	100		
87	32.2	27.3	40.9





#3

Chlorodifluoromethane

Concen: 0.472 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 51 Resp: 49959

Ion Ratio Lower Upper

51 100

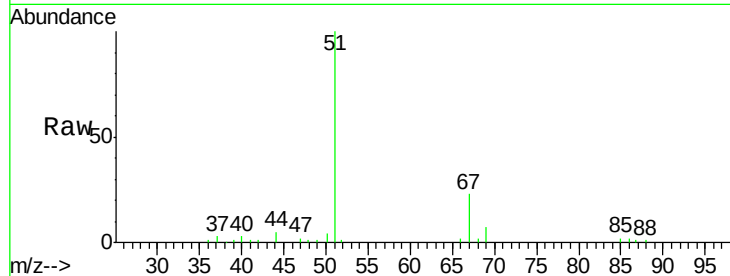
67 22.1 17.8 26.8

Manual Integrations

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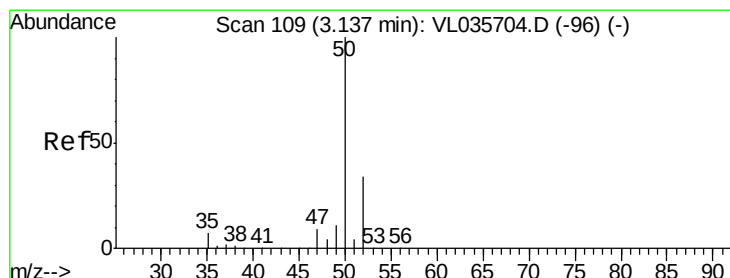
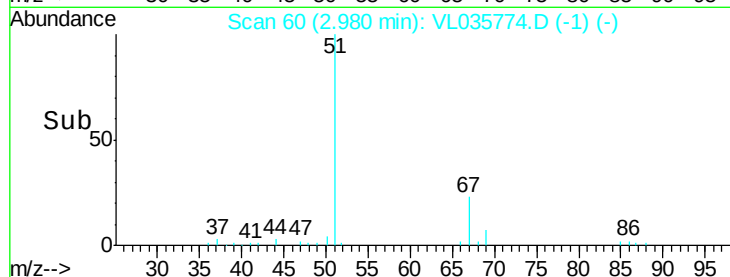
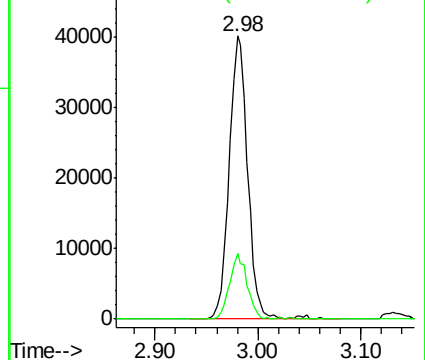
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.508 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035774.D

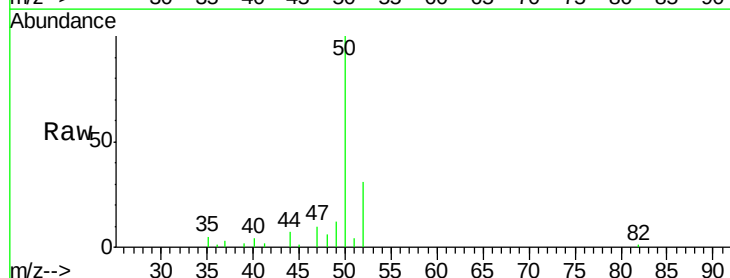
Acq: 12 Oct 2020 23:00

Tgt Ion: 50 Resp: 28907

Ion Ratio Lower Upper

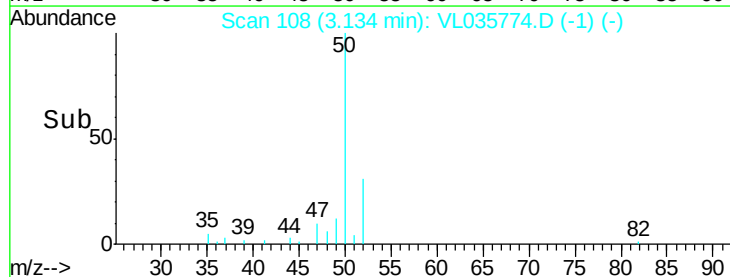
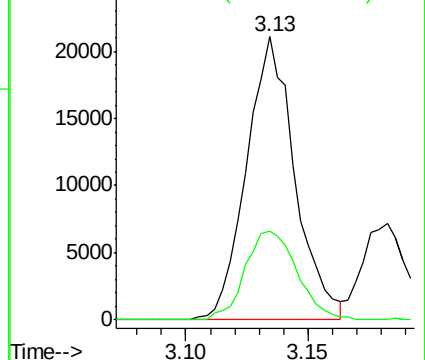
50 100

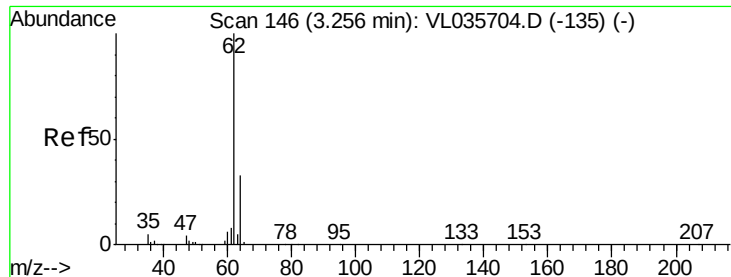
52 31.2 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.461 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

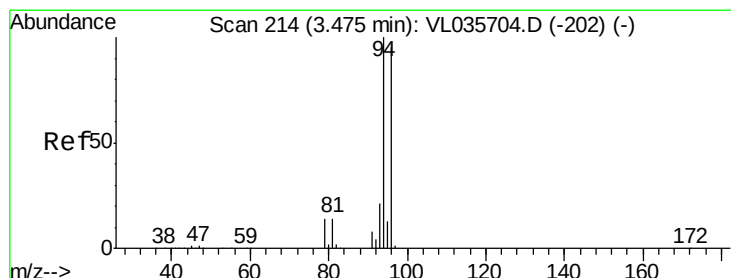
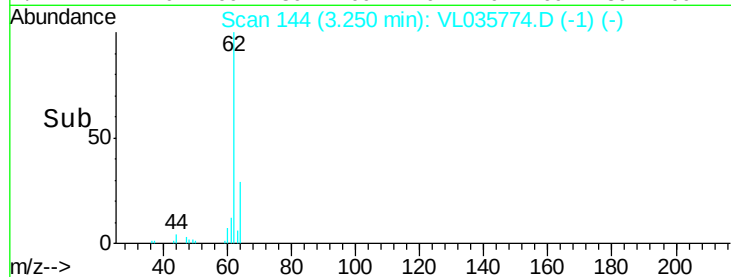
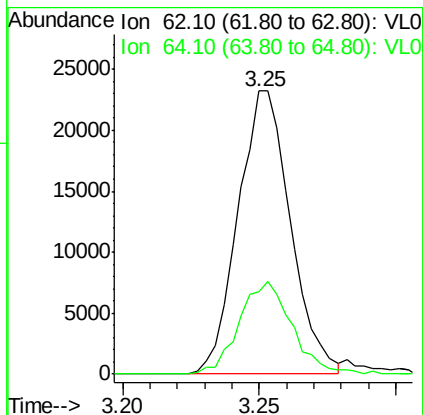
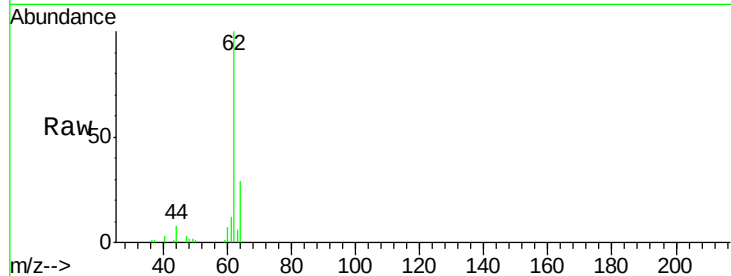
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
62	100		
64	29.2	26.8	40.2

Manual Integrations
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#6

Bromomethane

Concen: 0.470 ppbv

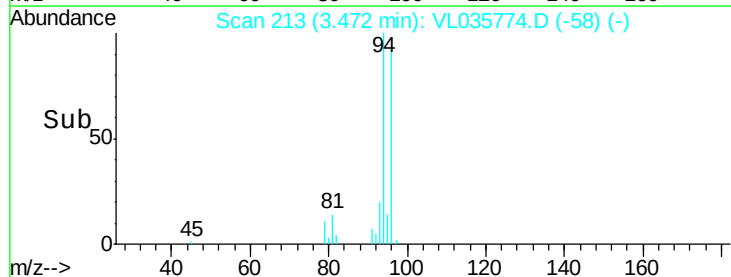
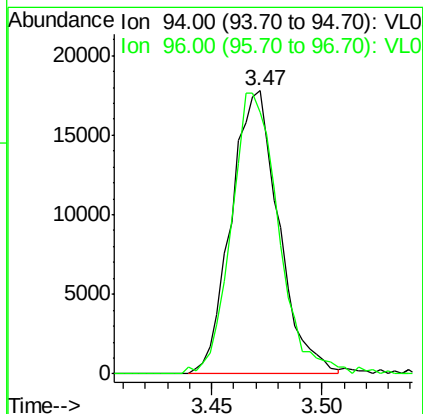
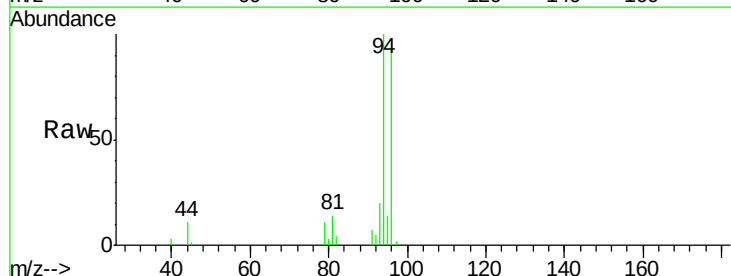
RT: 3.47 min Scan# 213

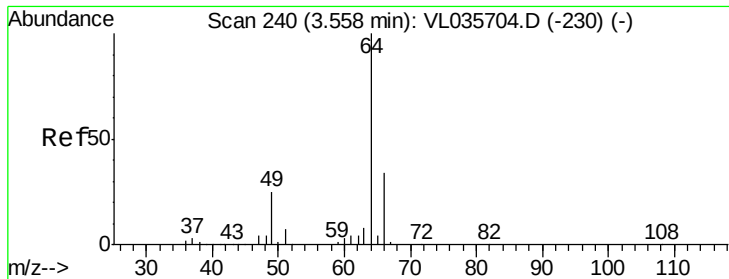
Delta R.T. -0.00 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
94	100		
96	89.8	76.3	114.5





#7

Chloroethane

Concen: 0.451 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 64 Resp: 11138

Ion Ratio Lower Upper

64 100

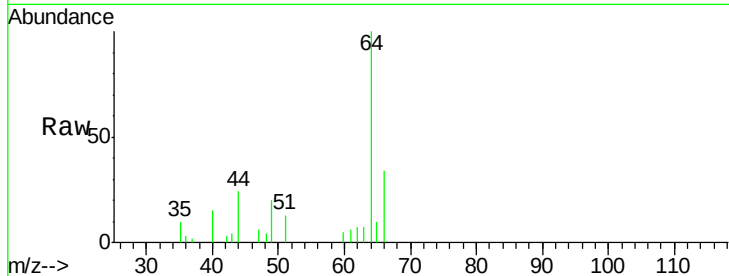
66 33.9 26.9 40.3

Manual Integrations

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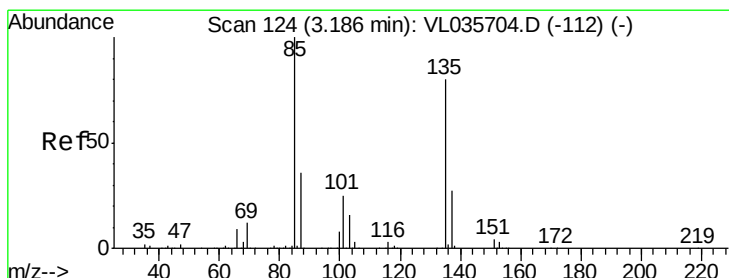
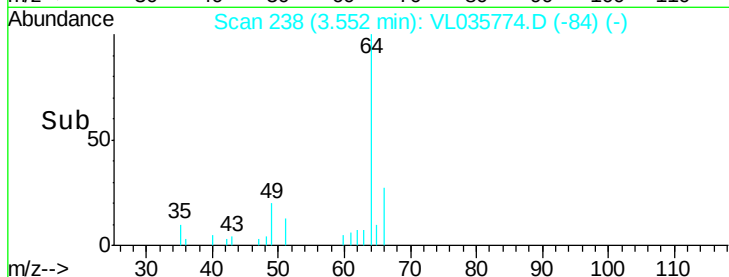
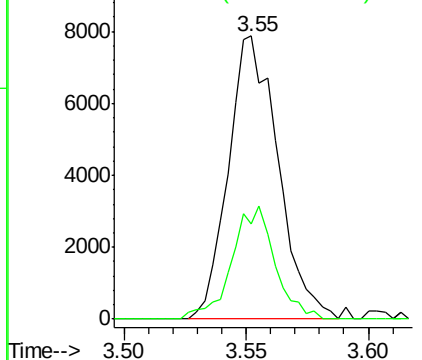
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.514 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035774.D

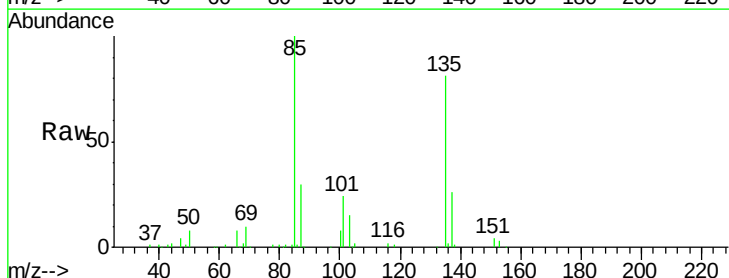
Acq: 12 Oct 2020 23:00

Tgt Ion: 85 Resp: 100687

Ion Ratio Lower Upper

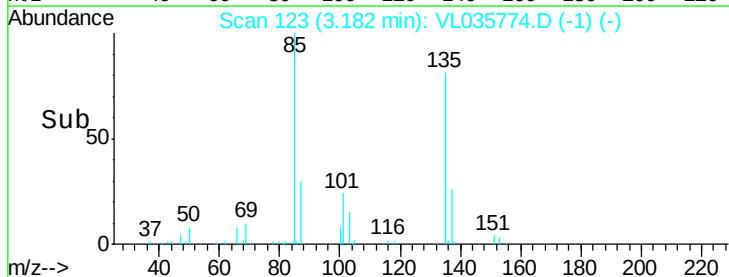
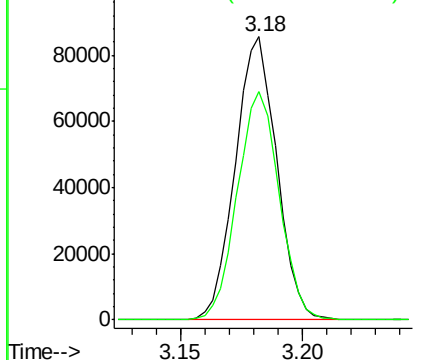
85 100

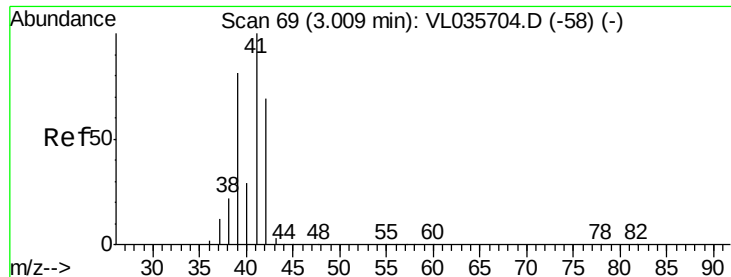
135 81.5 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.503 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 41 Resp: 19348

Ion Ratio Lower Upper

41 100

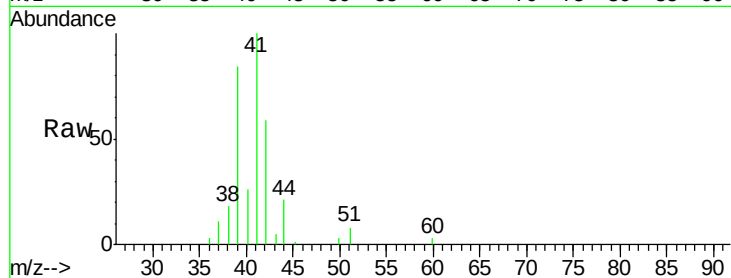
42 62.0 56.2 84.4

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

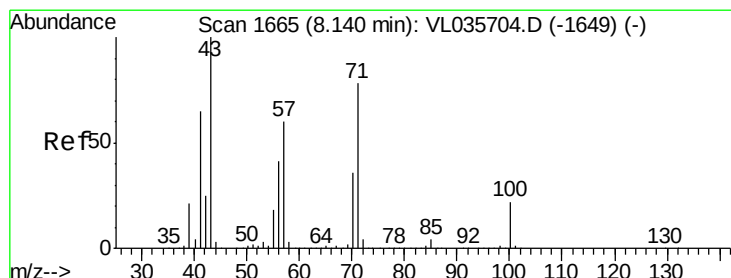
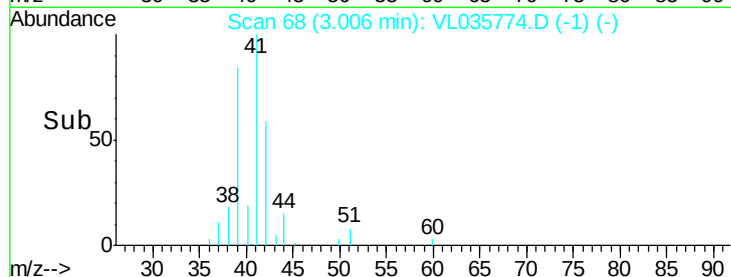
15000

10000

5000

0

Time--> 2.95 3.00 3.05



#10

Heptane

Concen: 0.382 ppbv m

RT: 8.13 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VL035774.D

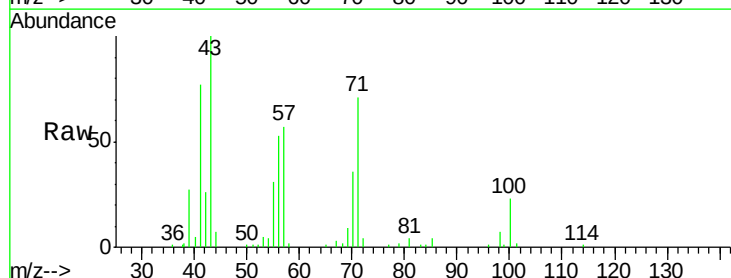
Acq: 12 Oct 2020 23:00

Tgt Ion: 43 Resp: 40970

Ion Ratio Lower Upper

43 100

57 0.0 50.4 75.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.13

25000

20000

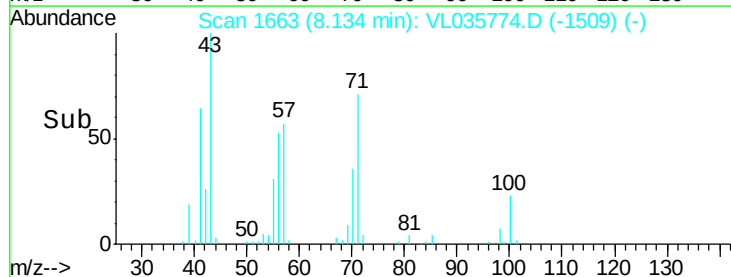
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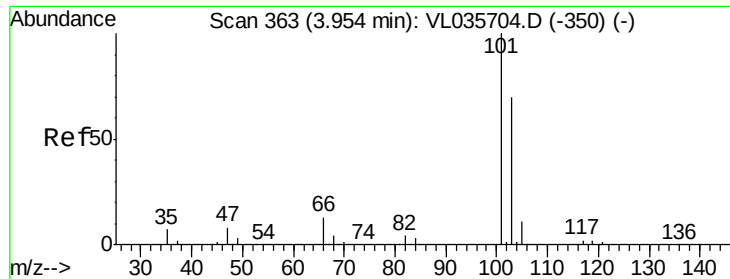
10000

5000

0

Time--> 8.05 8.10 8.15 8.20





#11

Trichlorofluoromethane

Concen: 0.488 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:101 Resp: 112345

Ion Ratio Lower Upper

101 100

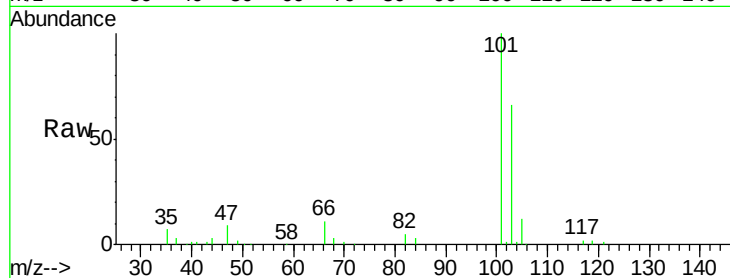
103 66.3 55.6 83.4

Manual Integrations

APPROVED

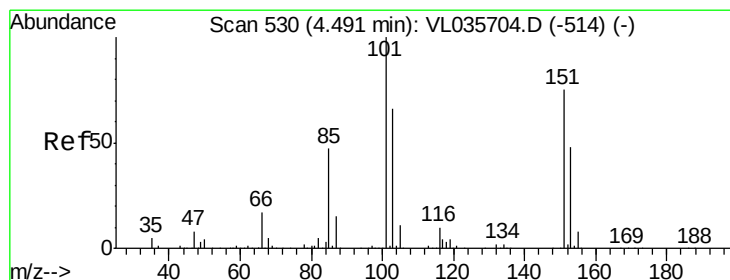
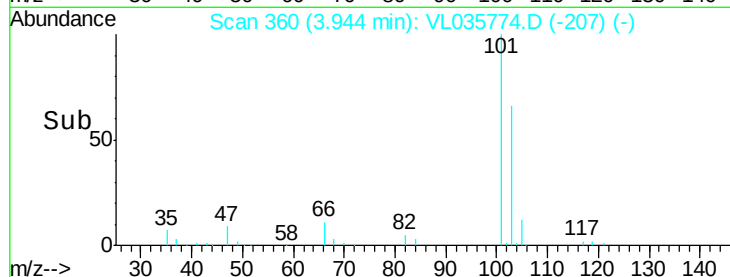
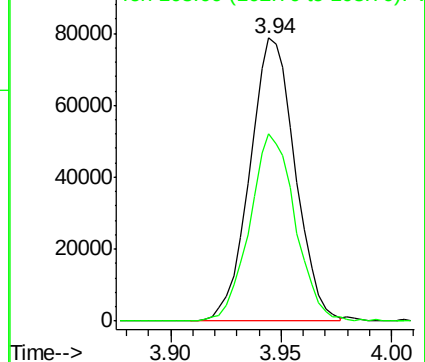
MMDadoda

10/14/2020 2:12:00 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.494 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.01 min

Lab File: VL035774.D

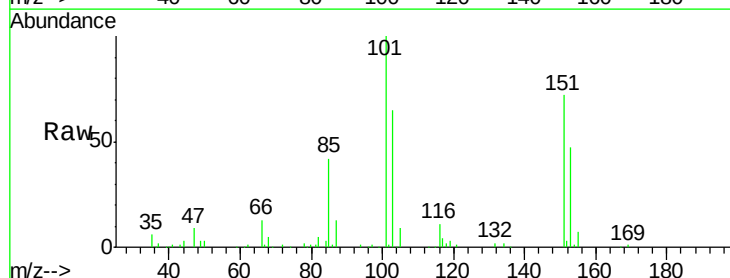
Acq: 12 Oct 2020 23:00

Tgt Ion:101 Resp: 84923

Ion Ratio Lower Upper

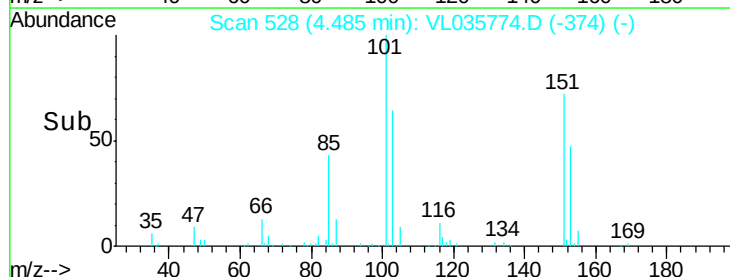
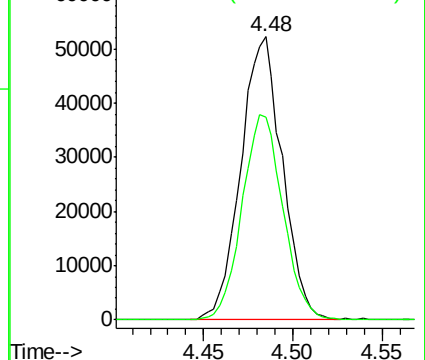
101 100

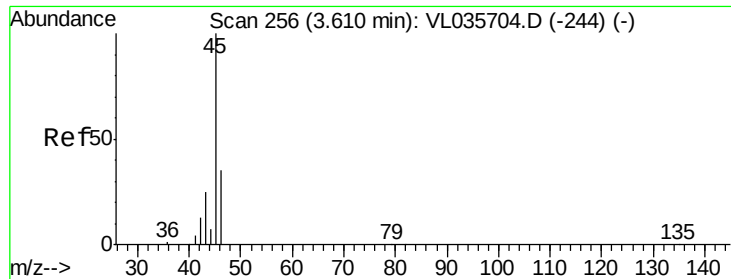
151 71.4 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





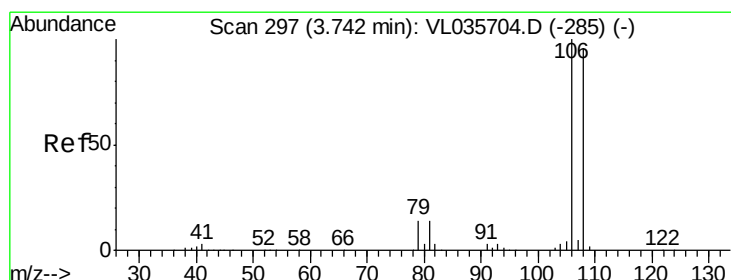
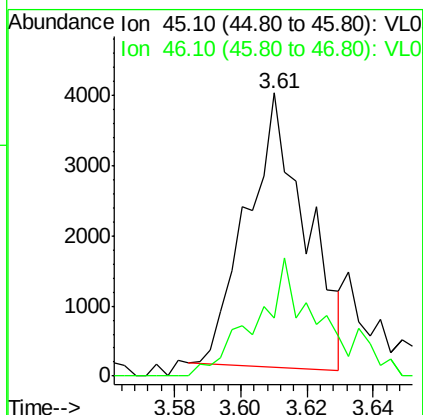
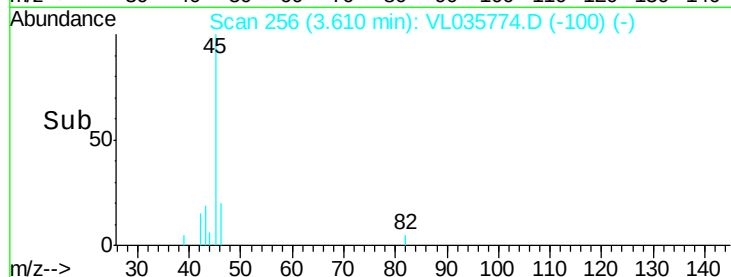
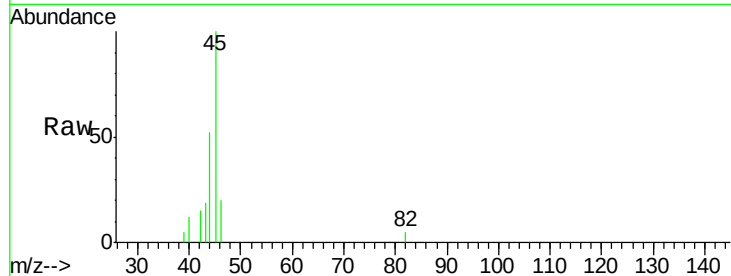
#13
Ethanol
Concen: 0.510 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion: 45 Resp: 4835
Ion Ratio Lower Upper
45 100
46 47.6 14.7 58.7

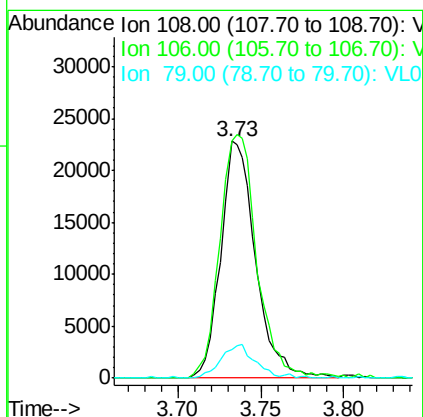
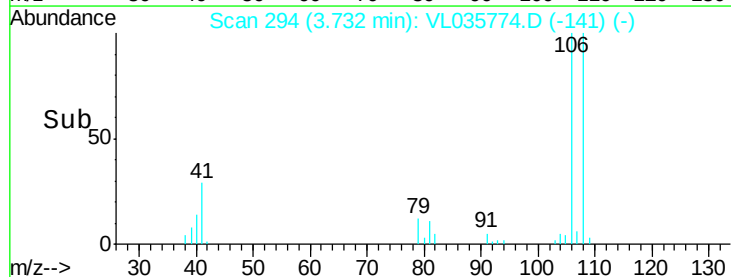
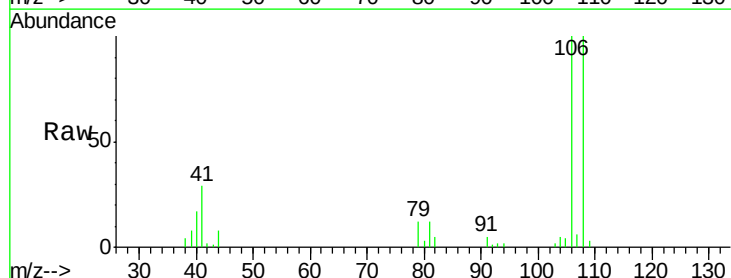
Manual Integrations
APPROVED

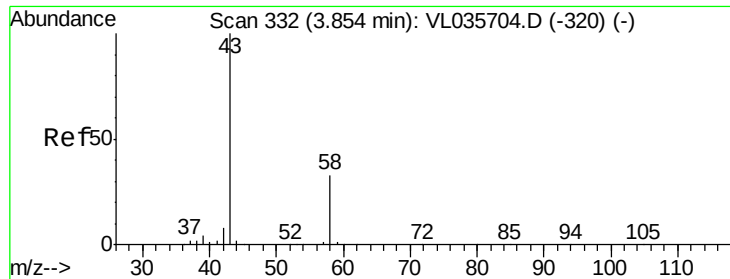
MMDadoda
10/14/2020 2:12:00 PM



#14
Bromoethene
Concen: 0.460 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion: 108 Resp: 33270
Ion Ratio Lower Upper
108 100
106 110.1 84.6 126.8
79 14.5 11.6 17.4





#15

Acetone

Concen: 0.588 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 62261

Ion Ratio Lower Upper

43 100

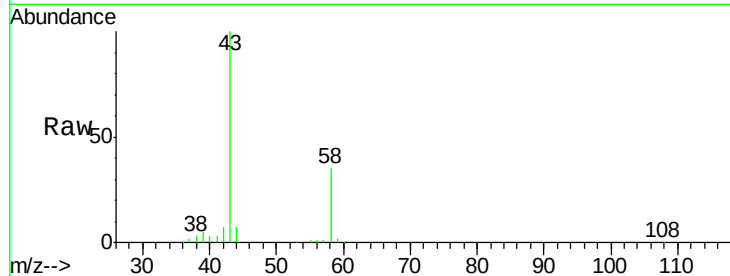
58 43.1 27.3 40.9#

Manual Integrations

APPROVED

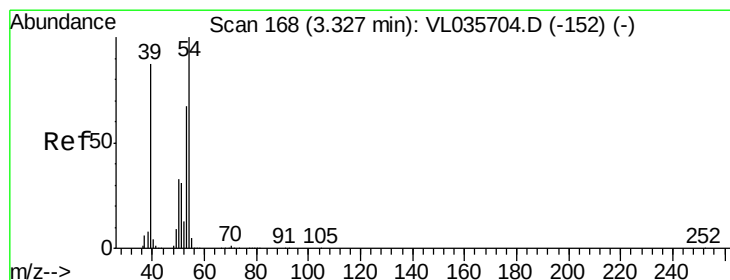
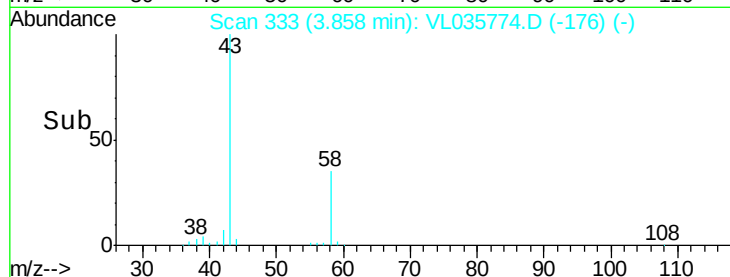
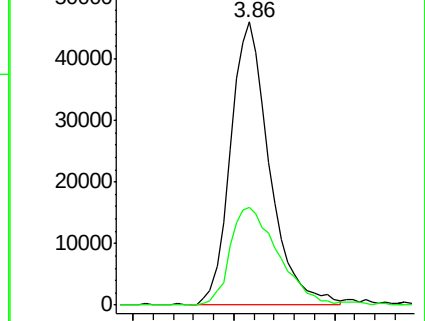
MMDadoda

10/14/2020 2:12:00 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.441 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL035774.D

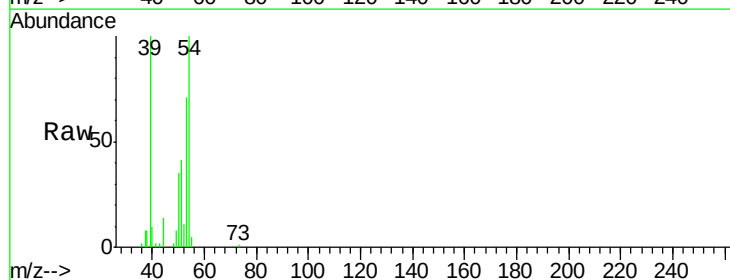
Acq: 12 Oct 2020 23:00

Tgt Ion: 39 Resp: 17069

Ion Ratio Lower Upper

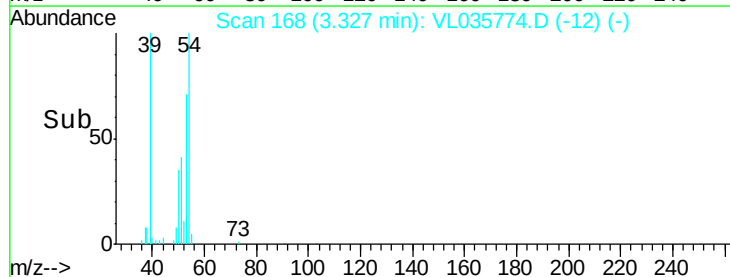
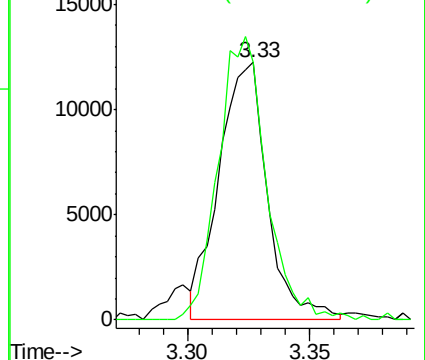
39 100

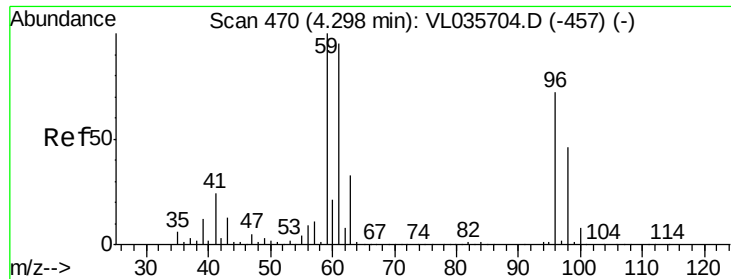
54 108.5 87.4 131.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

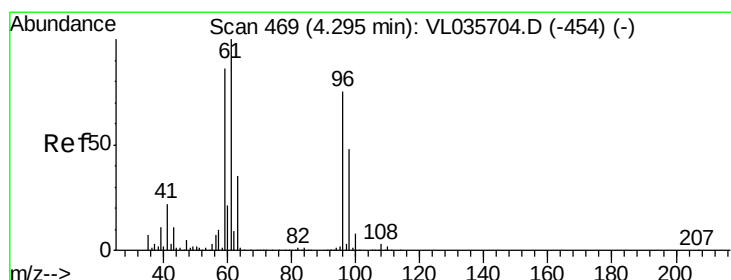
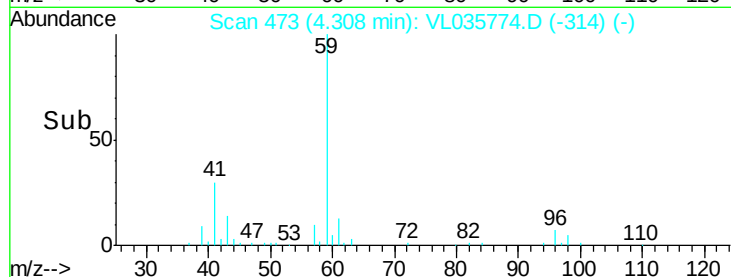
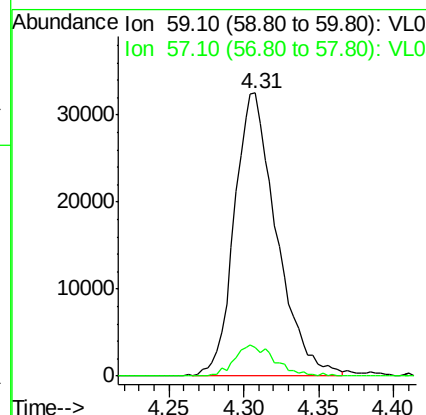
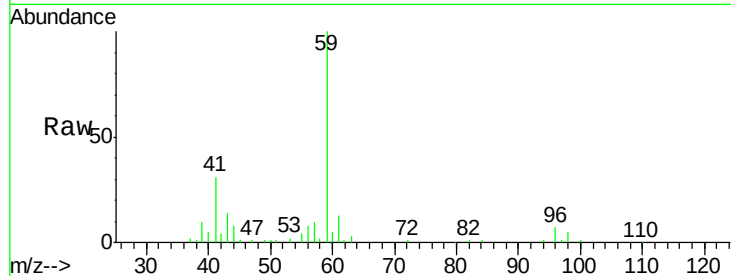
tert-Butyl alcohol
 Concen: 0.554 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.5	12.7

Manual Integrations
 APPROVED

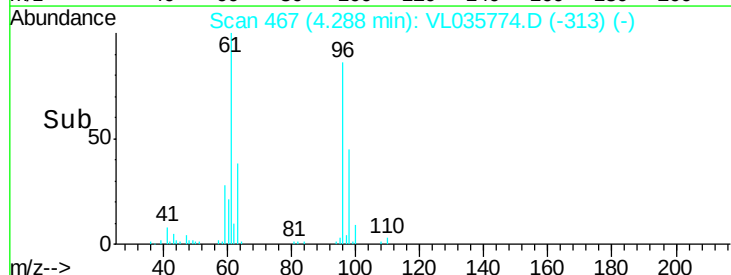
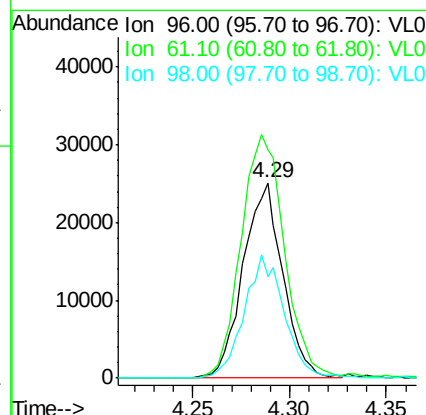
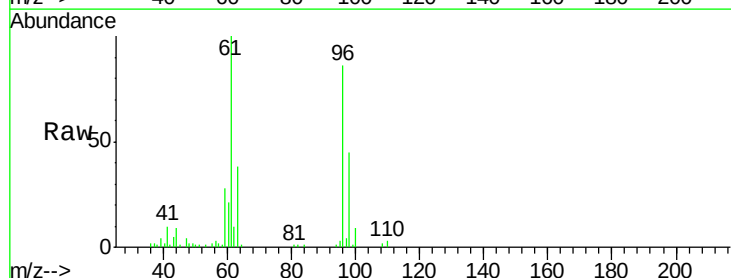
MMDadoda
 10/14/2020 2:12:00 PM

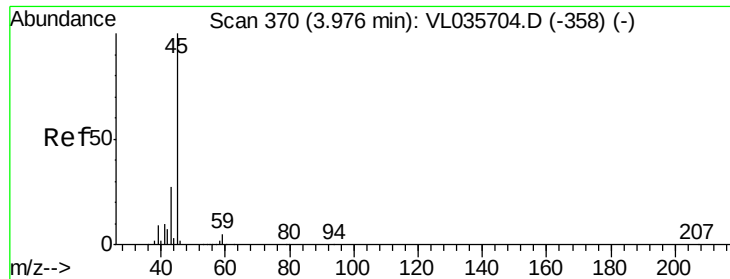


#18

1,1-Dichloroethene
 Concen: 0.478 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	116.9	106.7	160.1
98	52.3	50.8	76.2





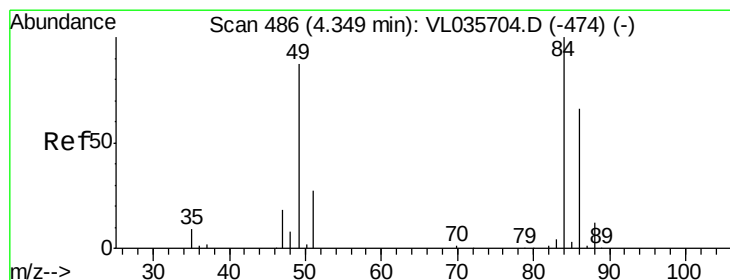
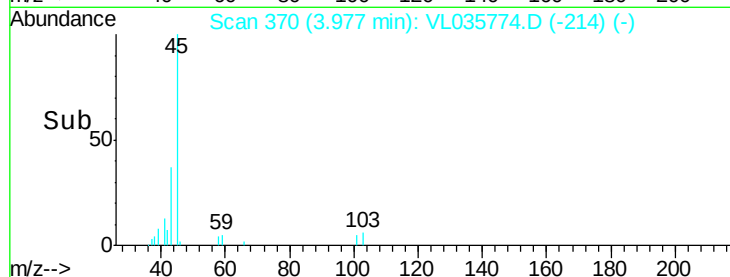
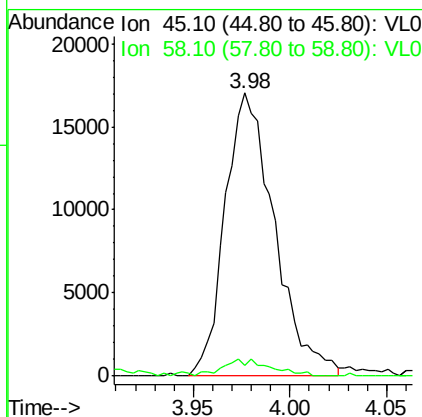
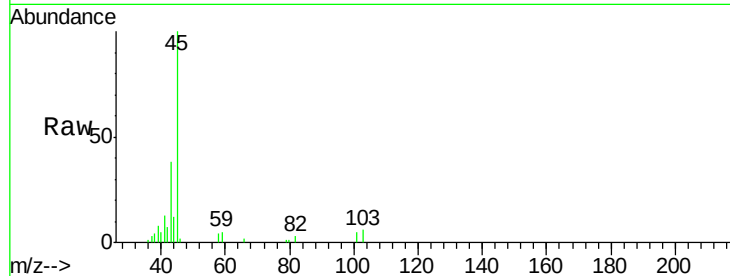
#19
Isopropyl Alcohol
Concen: 0.527 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.00 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion: 45 Resp: 30354
Ion Ratio Lower Upper
45 100
58 6.1 2.8 4.2#

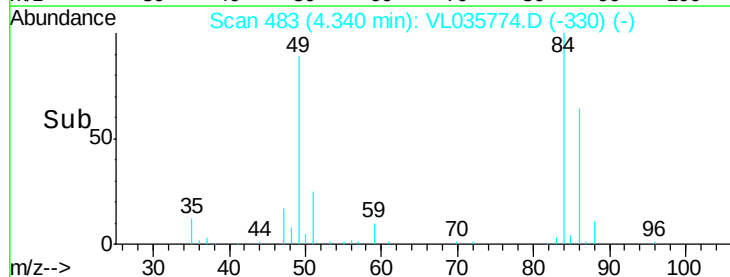
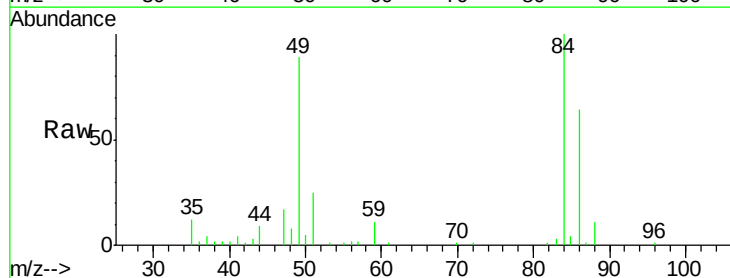
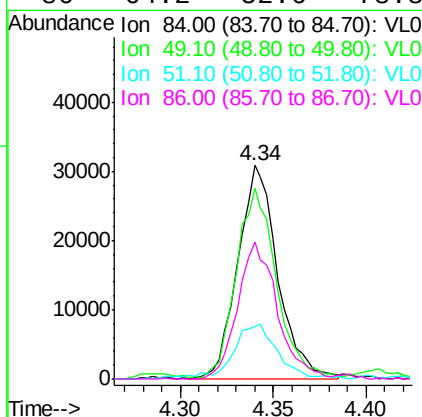
Manual Integrations
APPROVED

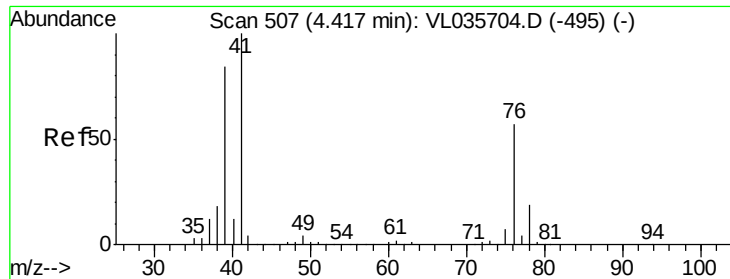
MMDadoda
10/14/2020 2:12:00 PM



#20
Methylene Chloride
Concen: 0.592 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion: 84 Resp: 46035
Ion Ratio Lower Upper
84 100
49 88.9 69.8 104.6
51 23.6 21.8 32.8
86 64.2 52.6 78.8





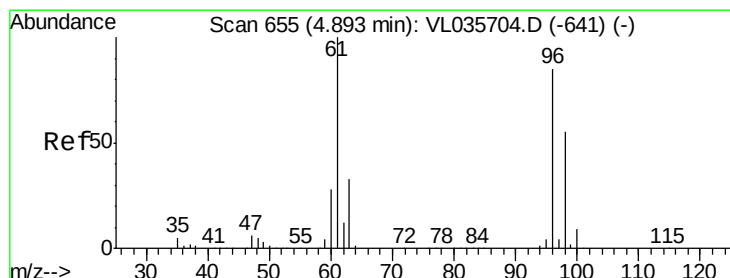
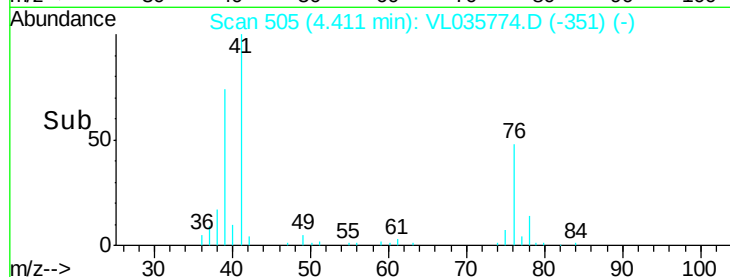
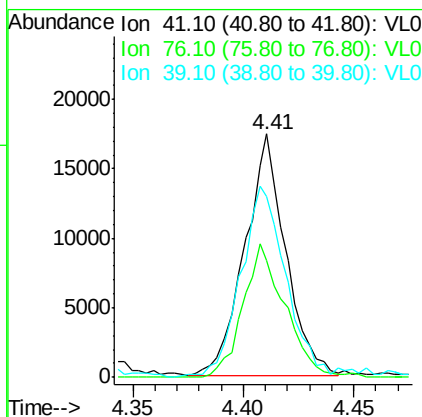
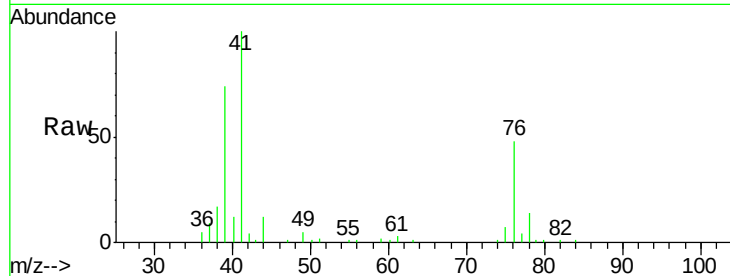
#21
Allvl Chloride
Concen: 0.434 ppbv
RT: 4.41 min Scan# 505
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion: 41 Resp: 22274
Ion Ratio Lower Upper
41 100
76 57.3 44.8 67.2
39 92.9 68.4 102.6

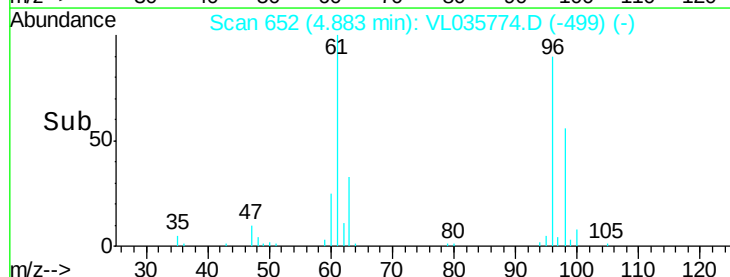
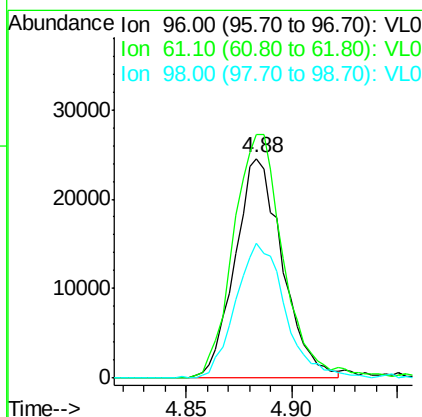
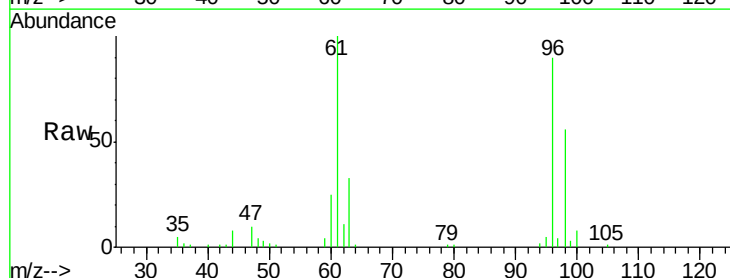
Manual Integrations
APPROVED

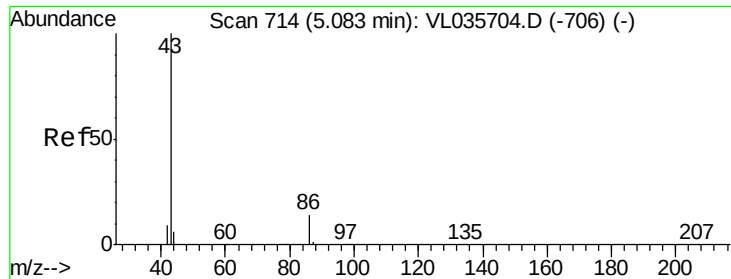
MMDadoda
10/14/2020 2:12:00 PM



#22
trans-1,2-Dichloroethene
Concen: 0.484 ppbv
RT: 4.88 min Scan# 652
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion: 96 Resp: 38461
Ion Ratio Lower Upper
96 100
61 110.7 93.7 140.5
98 61.6 51.2 76.8





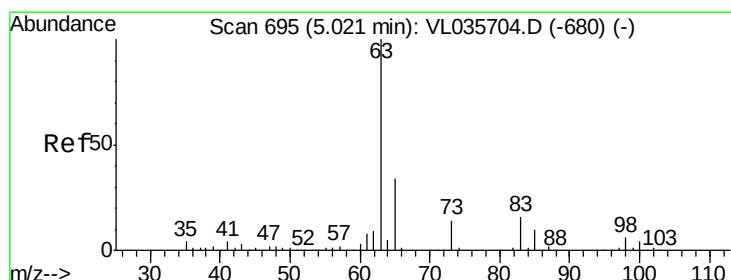
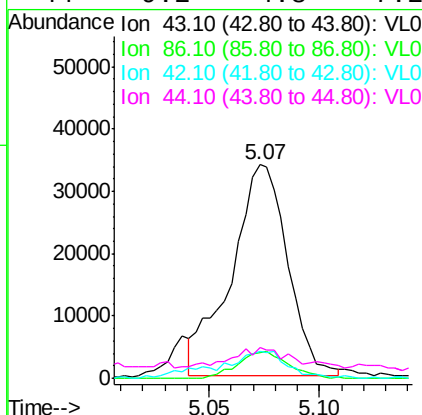
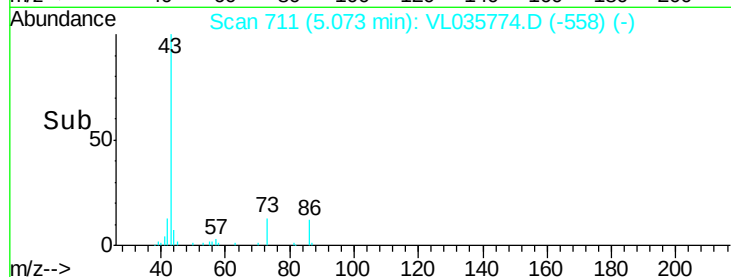
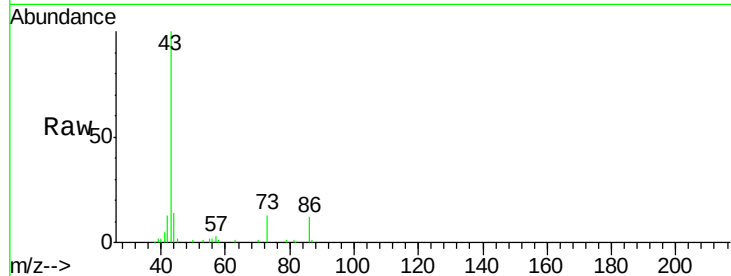
#23
 Vinyl Acetate
 Concen: 0.464 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	43	Resp	60228
Ion	Ratio	Lower	Upper
43	100		
86	12.5	9.7	14.5
42	12.4	7.9	11.9#
44	9.2	4.8	7.2#

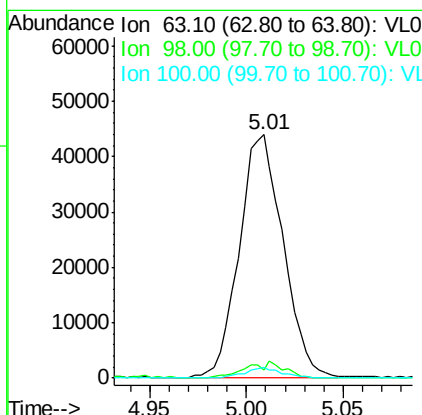
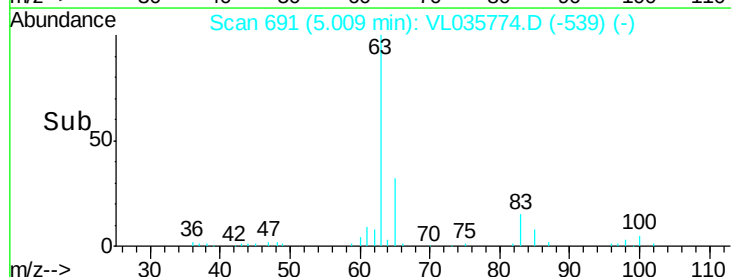
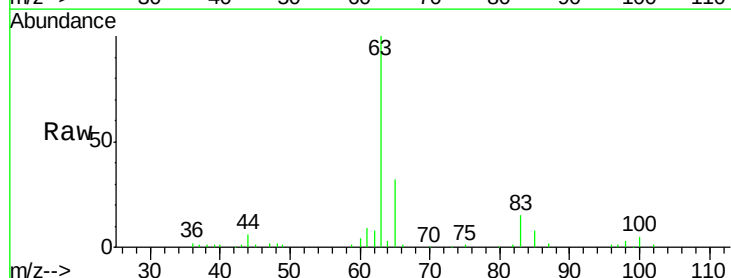
Manual Integrations
 APPROVED

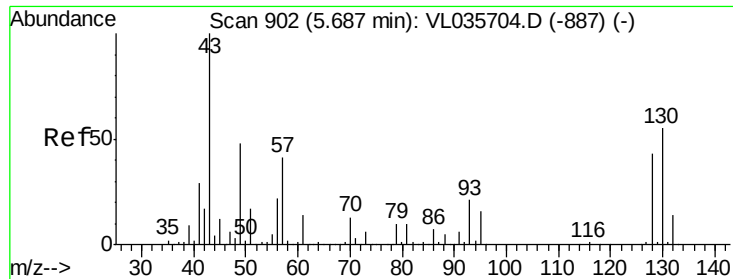
MMDadoda
 10/14/2020 2:12:00 PM



#24
 1,1-Dichloroethane
 Concen: 0.493 ppbv
 RT: 5.01 min Scan# 691
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion	63	Resp	69614
Ion	Ratio	Lower	Upper
63	100		
98	3.4	3.3	9.8
100	4.6	2.0	5.8





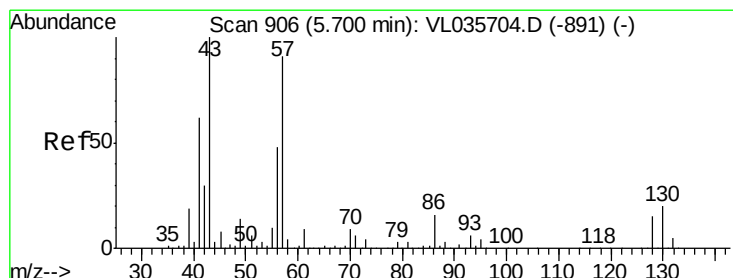
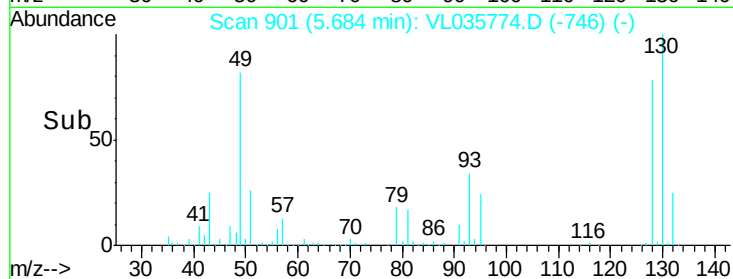
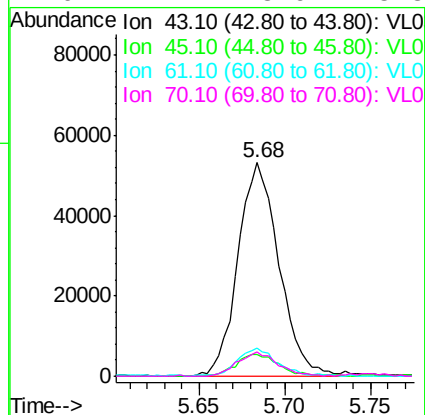
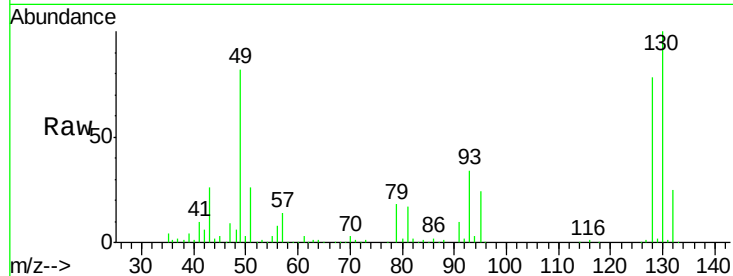
#25
Ethyl Acetate
Concen: 0.464 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion	43	Resp	88459
Ion Ratio	Lower	Upper	
43	100		
45	10.9	8.6	12.8
61	12.9	10.4	15.6
70	11.2	8.9	13.3

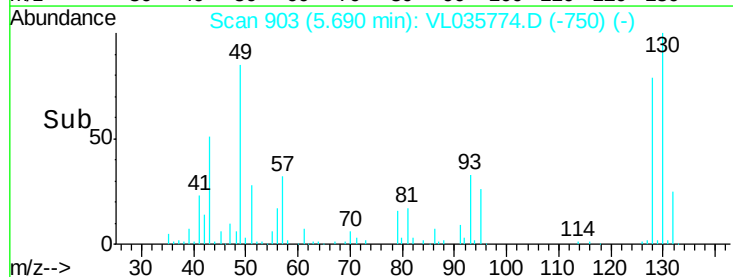
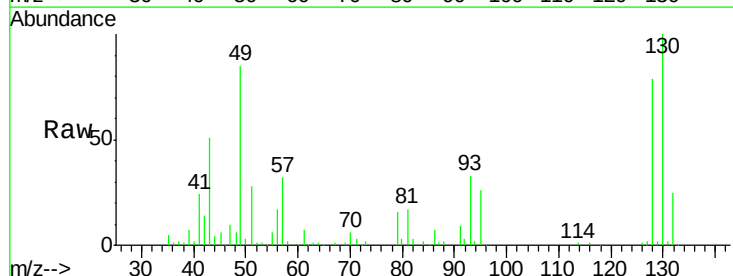
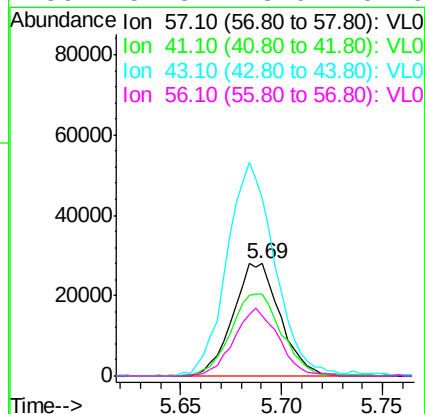
Manual Integrations
APPROVED

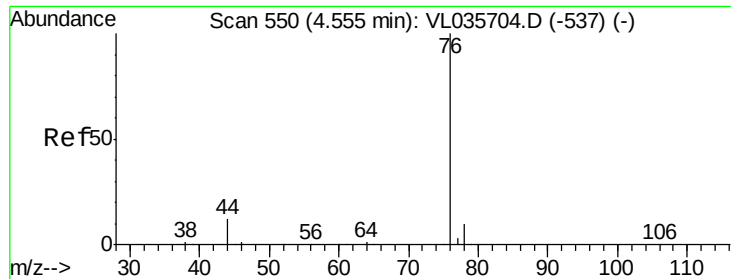
MMDadoda
10/14/2020 2:12:00 PM



#26
Hexane
Concen: 0.438 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion	57	Resp	45759
Ion Ratio	Lower	Upper	
57	100		
41	79.2	57.9	86.9
43	195.8	143.8	215.6
56	57.3	43.0	64.6





#27

Carbon Disulfide

Concen: 0.406 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

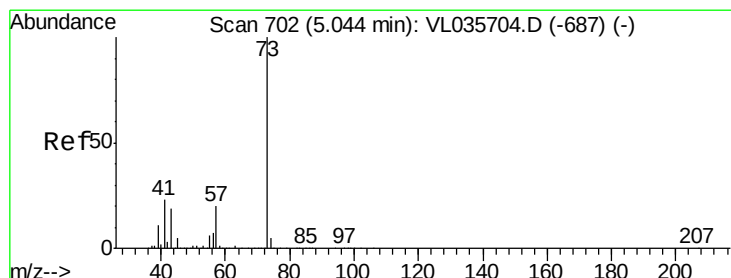
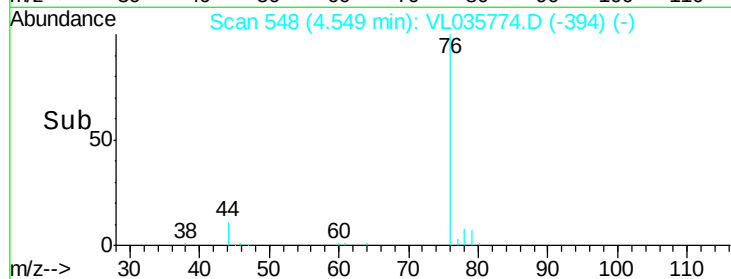
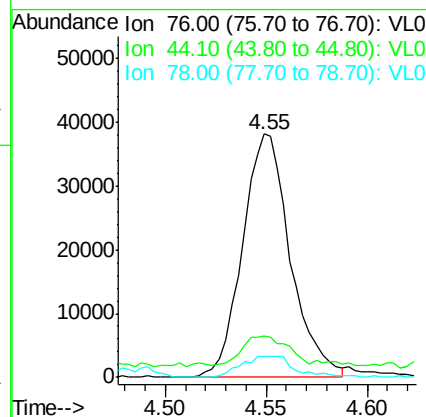
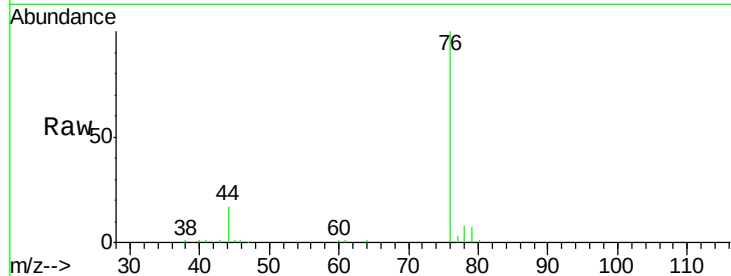
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	76	Resp:	63211
Ion	Ratio	Lower	Upper
76	100		
44	14.3	9.7	14.5
78	10.0	7.8	11.8

Manual Integrations
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MMDadoda
10/14/2020 2:12:00 PM



#28

Methyl tert-Butyl Ether

Concen: 0.466 ppbv

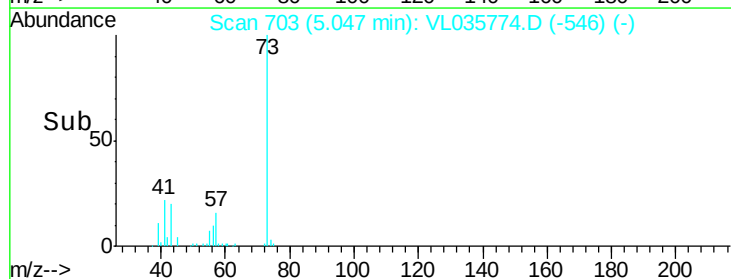
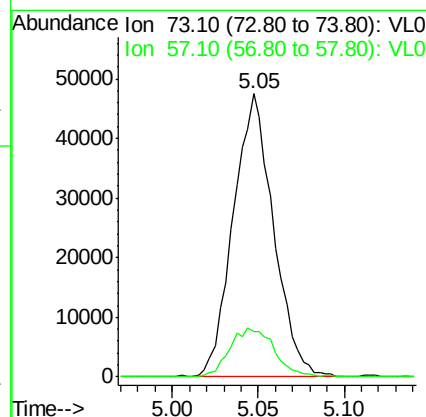
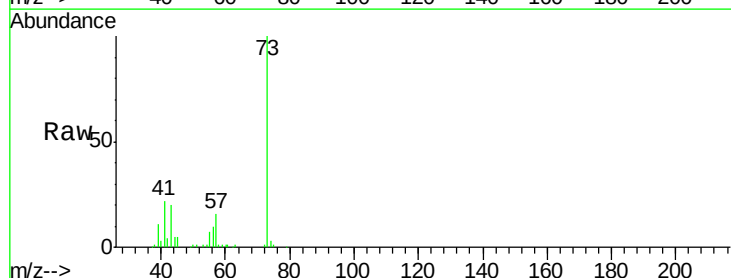
RT: 5.05 min Scan# 703

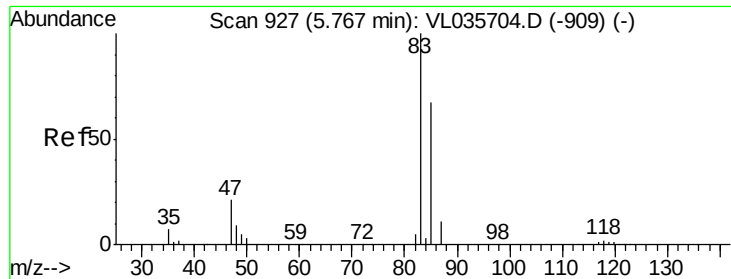
Delta R.T. 0.00 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:	73	Resp:	77153
Ion	Ratio	Lower	Upper
73	100		
57	19.1	15.6	23.4





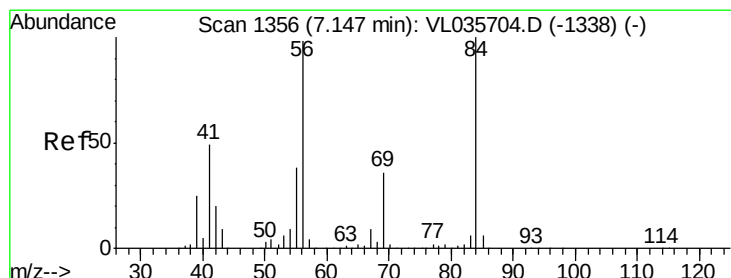
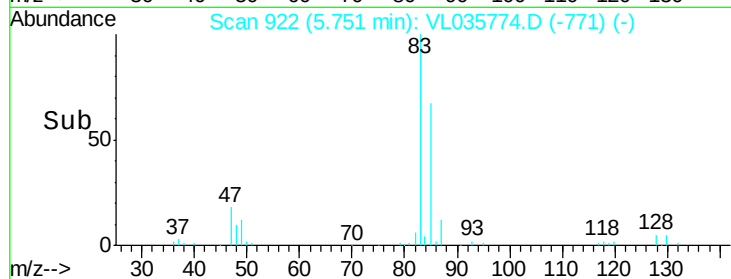
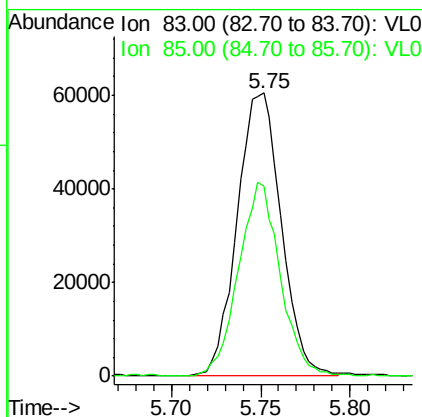
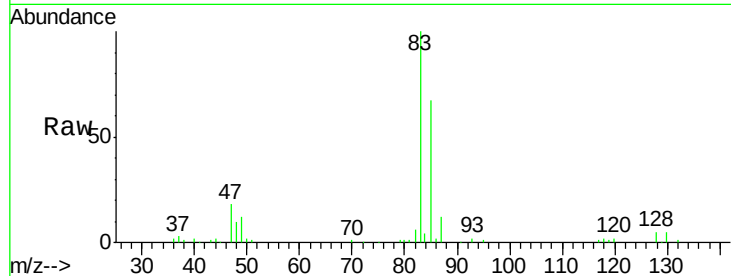
#29
Chloroform
Concen: 0.494 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion: 83 Resp: 104679
Ion Ratio Lower Upper
83 100
85 66.7 54.0 81.0

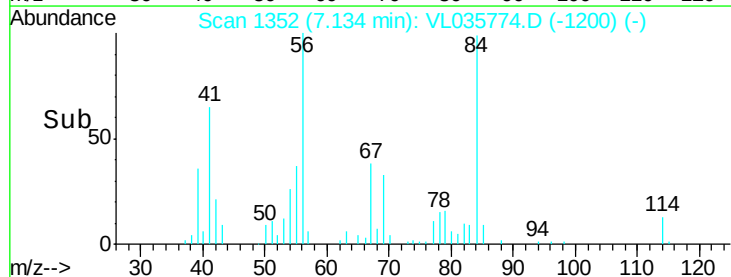
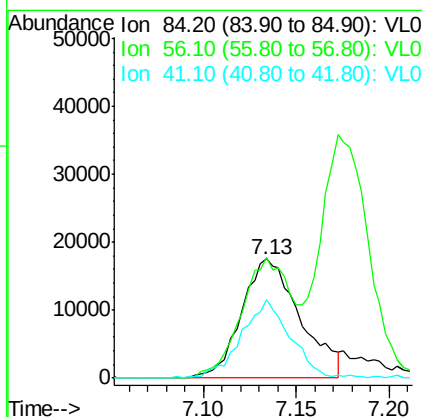
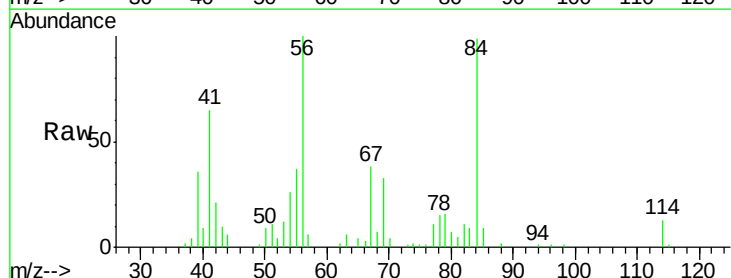
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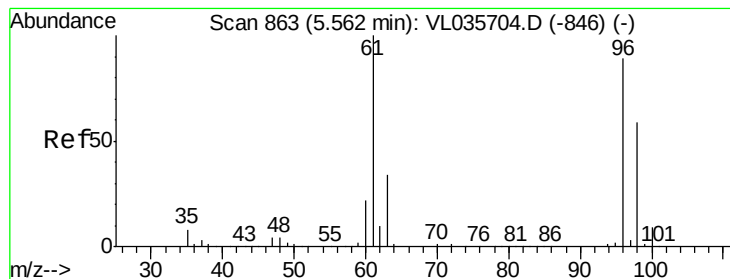
MMDadoda
10/14/2020 2:12:00 PM



#30
Cyclohexane
Concen: 0.374 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion: 84 Resp: 38557
Ion Ratio Lower Upper
84 100
56 0.0 84.6 127.0#
41 55.2 41.1 61.7





#31

cis-1,2-Dichloroethene

Concen: 0.419 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 61 Resp: 42268

Ion Ratio Lower Upper

61 100

96 89.5 71.4 107.2

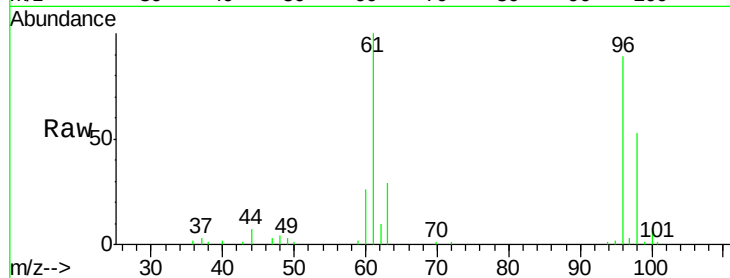
98 52.5 47.4 71.2

Manual Integrations

APPROVED

MMDadoda

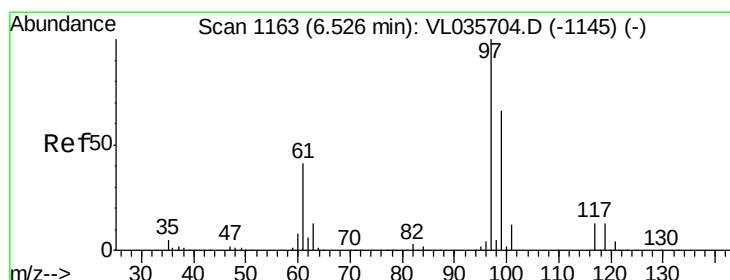
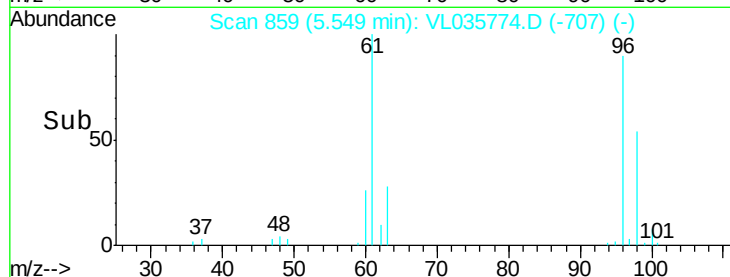
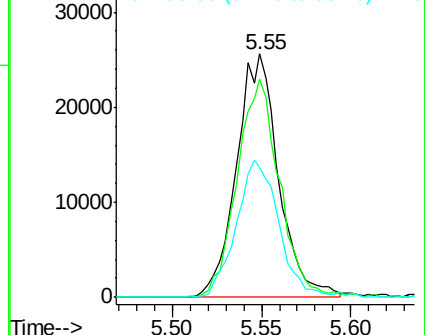
10/14/2020 2:12:00 PM



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.469 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

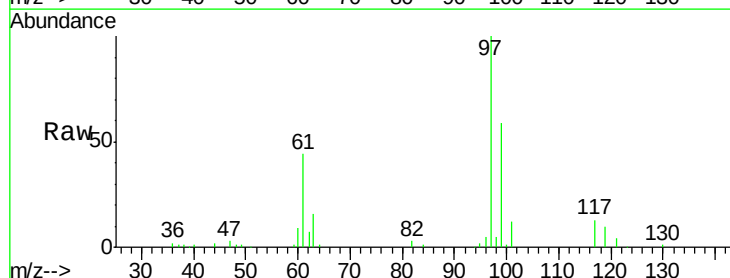
Tgt Ion: 97 Resp: 87714

Ion Ratio Lower Upper

97 100

99 64.0 52.7 79.1

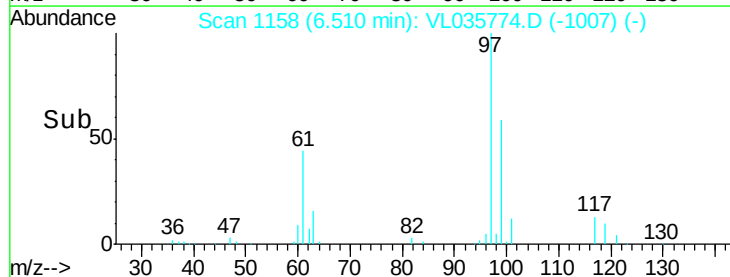
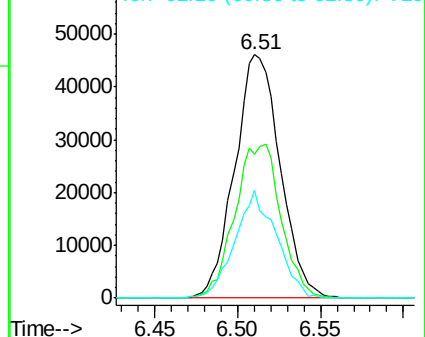
61 40.5 32.7 49.1

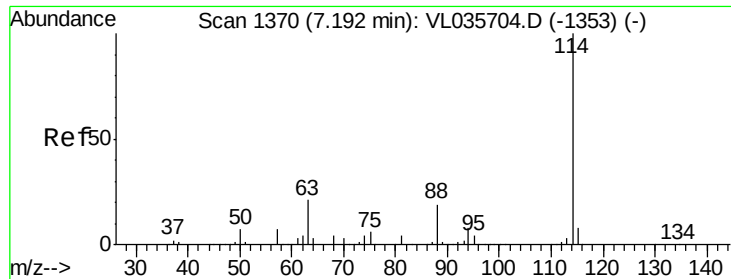


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





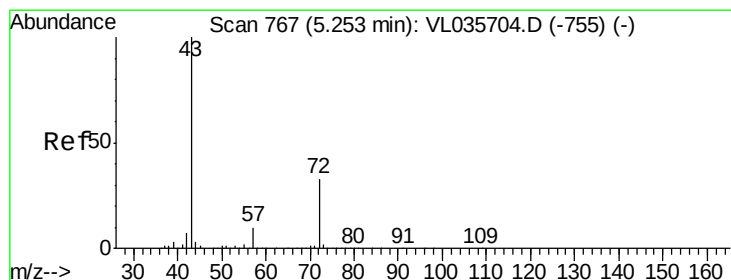
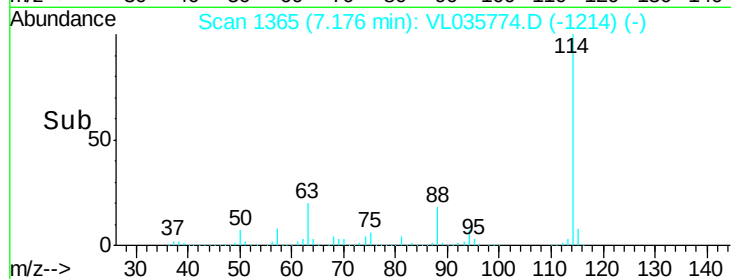
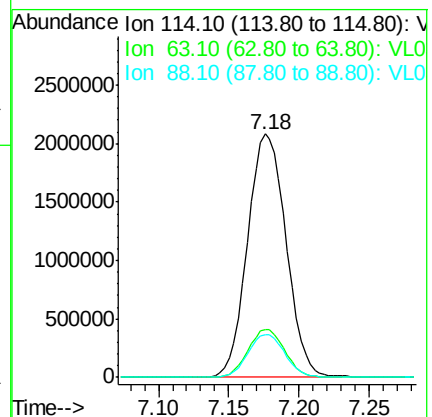
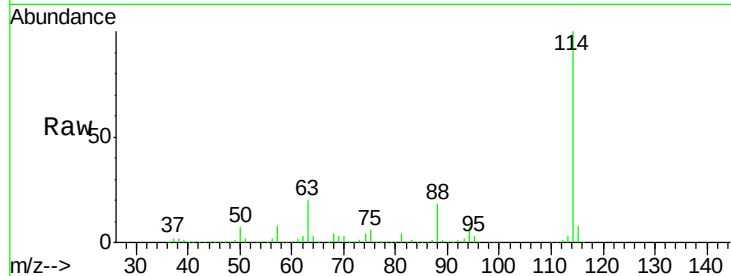
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.02 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion:114 Resp: 3982942
 Ion Ratio Lower Upper
 114 100
 63 19.1 16.1 24.1
 88 17.0 14.1 21.1

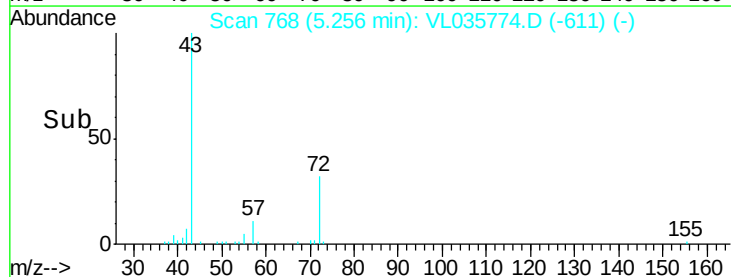
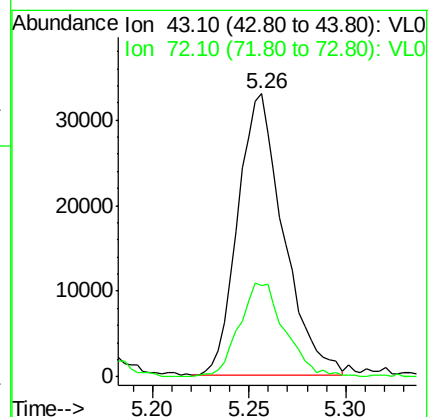
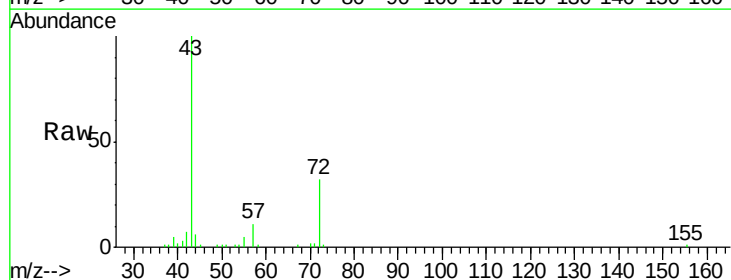
Manual Integrations
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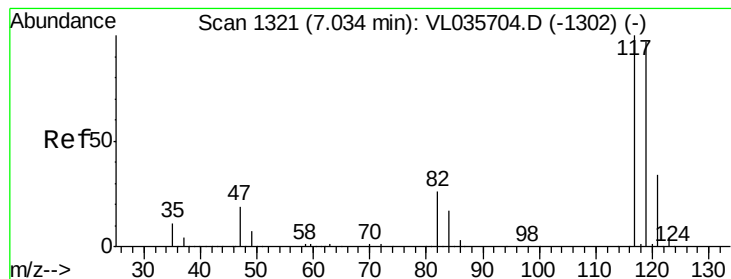
MMDadoda
 10/14/2020 2:12:00 PM



#34
 2-Butanone
 Concen: 0.410 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.00 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion: 43 Resp: 54060
 Ion Ratio Lower Upper
 43 100
 72 33.8 26.1 39.1





#35

Carbon Tetrachloride

Concen: 0.415 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

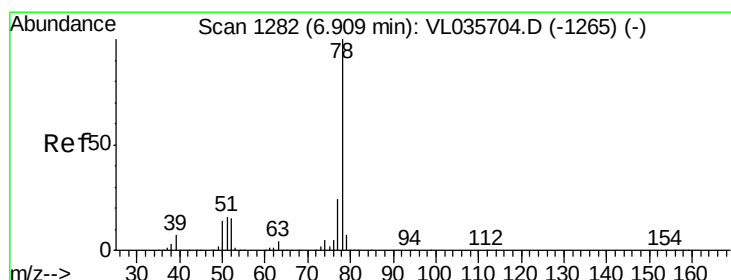
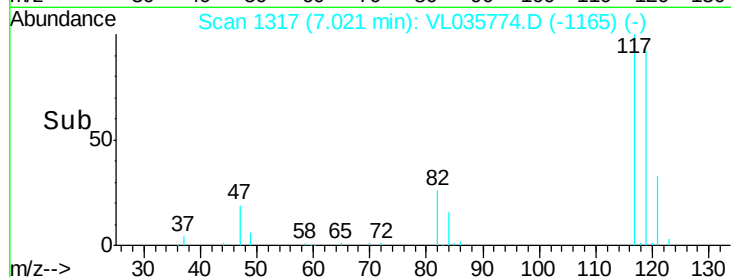
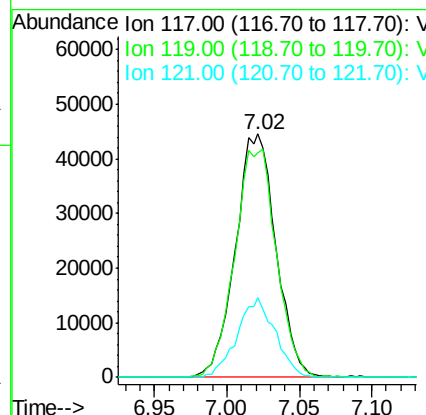
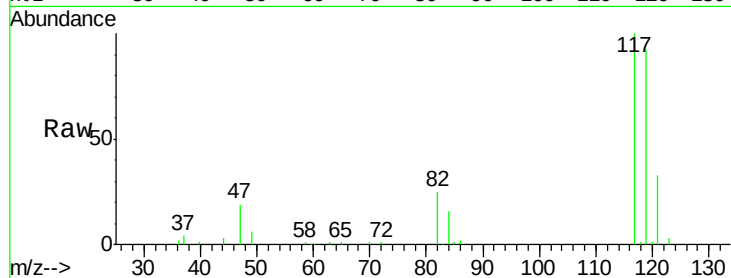
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	117	Resp:	86137
Ion Ratio	Lower	Upper	
117	100		
119	92.3	77.7	116.5
121	32.7	26.9	40.3

Manual Integrations
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MMDadoda
10/14/2020 2:12:00 PM



#36

Benzene

Concen: 0.407 ppbv

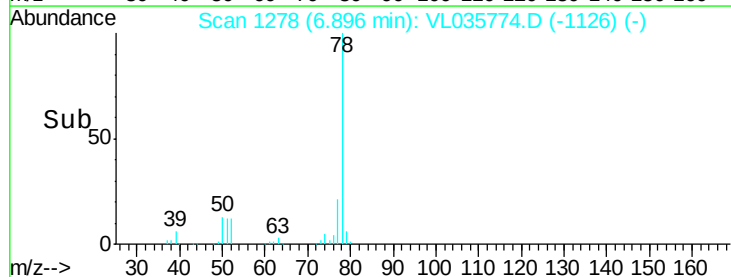
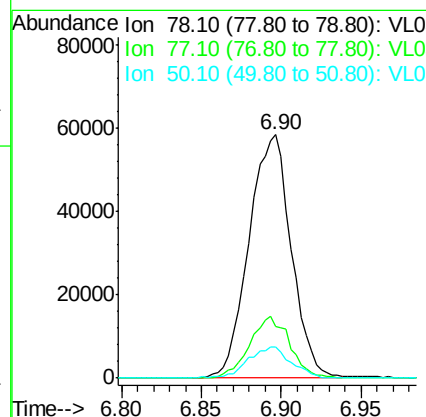
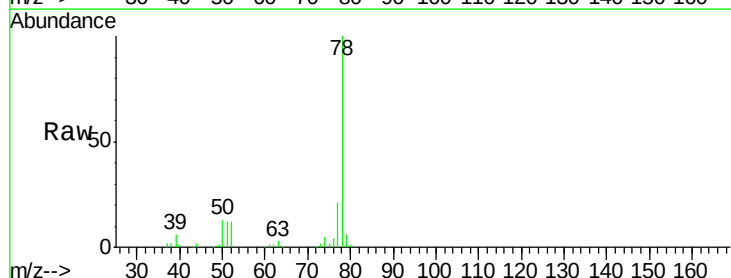
RT: 6.90 min Scan# 1278

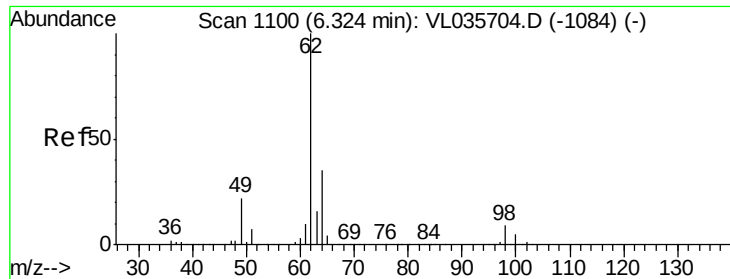
Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:	78	Resp:	105503
Ion Ratio	Lower	Upper	
78	100		
77	21.3	19.3	28.9
50	12.6	11.6	17.4





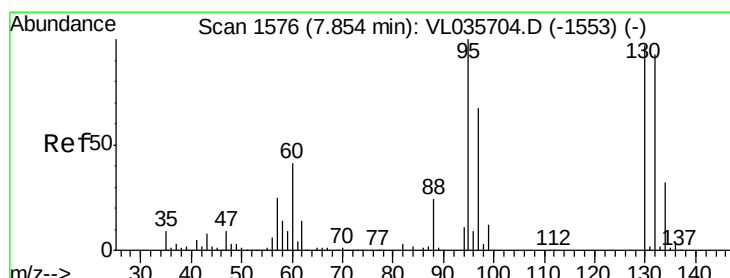
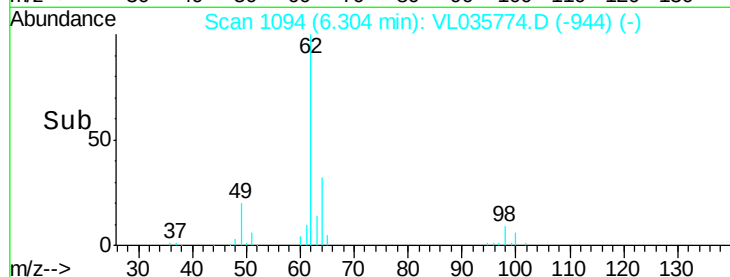
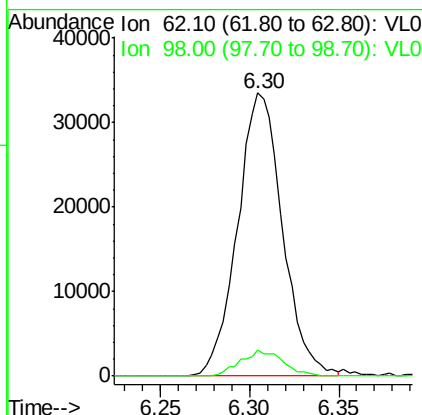
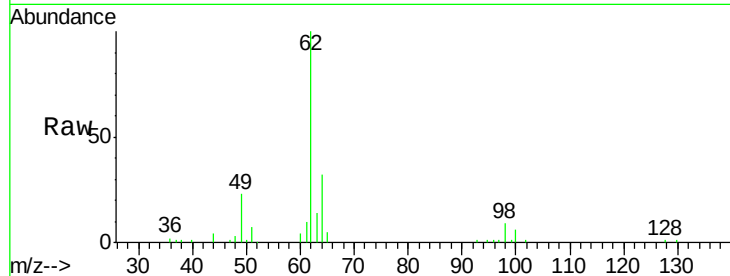
#37
1,2-Dichloroethane
Concen: 0.437 ppbv
RT: 6.30 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
62	100	59081		
98	8.6		6.9	10.3

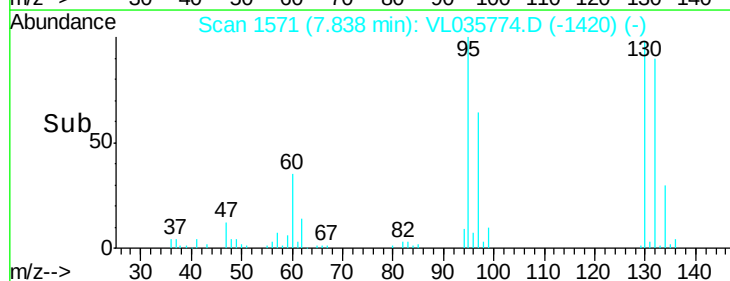
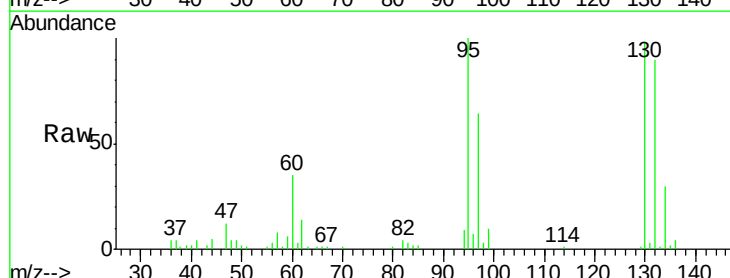
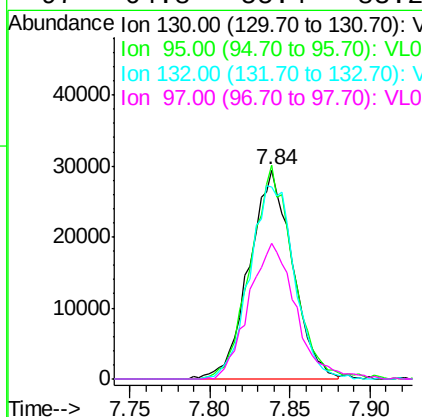
Manual Integrations
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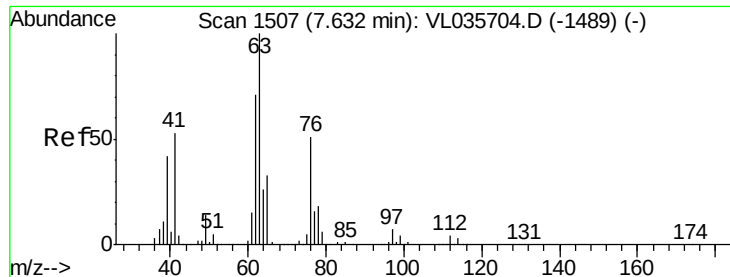
MMDadoda
10/14/2020 2:12:00 PM



#38
Trichloroethene
Concen: 0.422 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	54628		
95	102.1		82.4	123.6
132	91.9		76.8	115.2
97	64.8		55.4	83.2





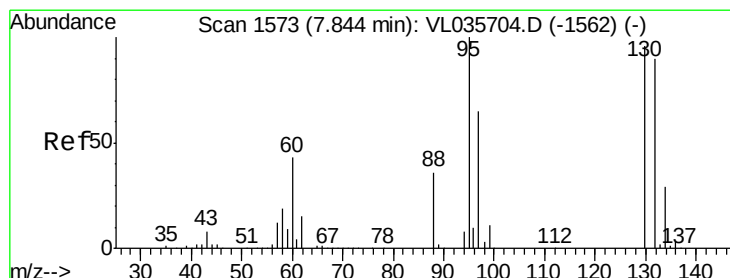
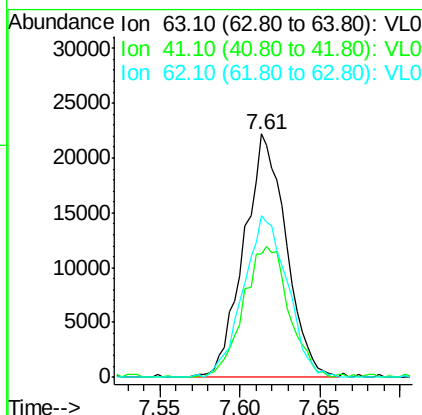
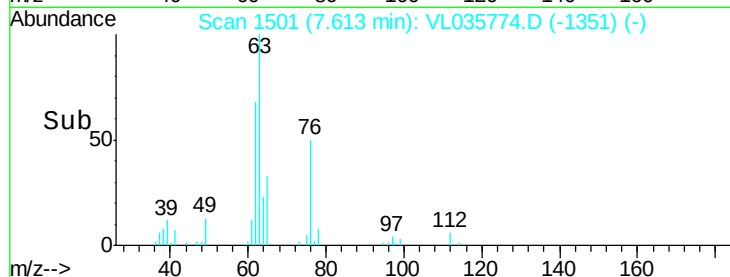
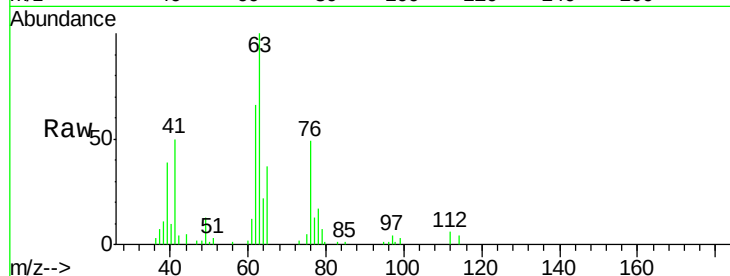
#39
 1,2-Dichloropropane
 Concen: 0.427 ppbv
 RT: 7.61 min Scan# 1501
 Delta R.T. -0.02 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
63	100		
41	50.4	42.6	63.8
62	66.5	56.5	84.7

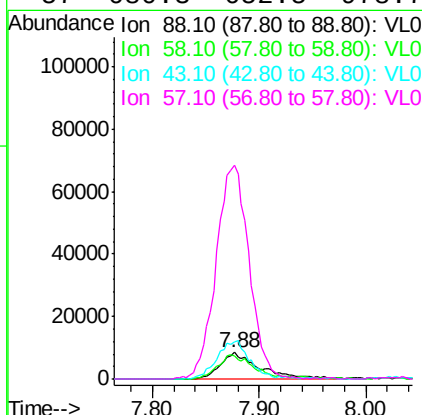
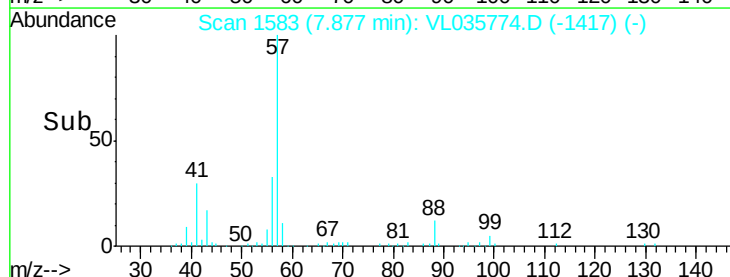
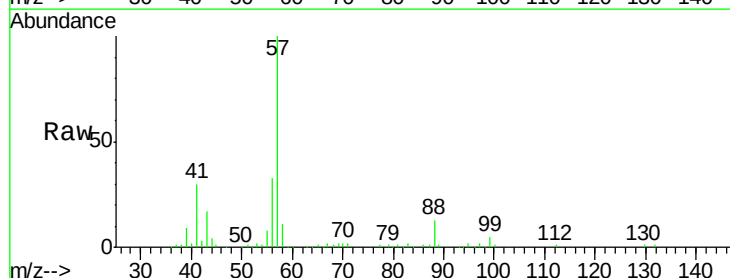
Manual Integrations
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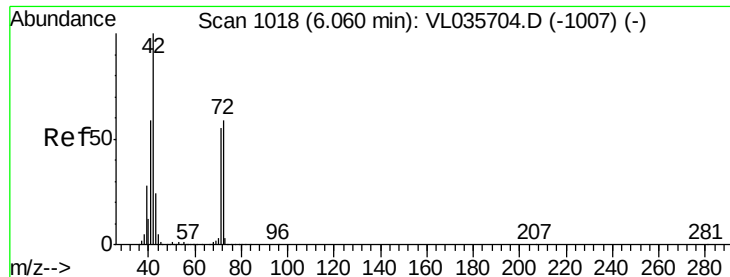
MMDadoda
 10/14/2020 2:12:00 PM



#40
 1,4-Dioxane
 Concen: 0.500 ppbv m
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.03 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
88	100		
58	89.7	76.2	114.4
43	124.0	123.4	185.2
57	680.3	652.5	978.7





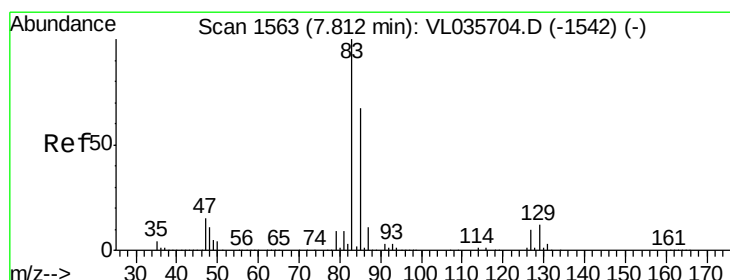
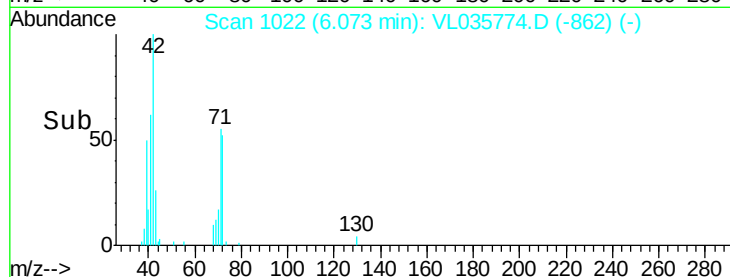
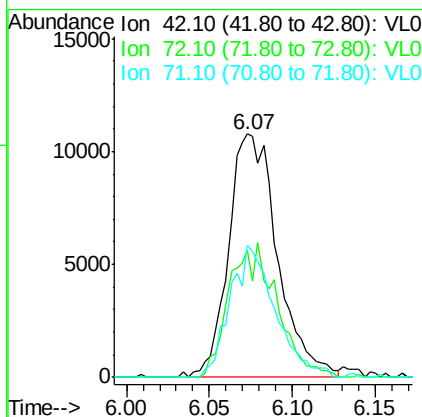
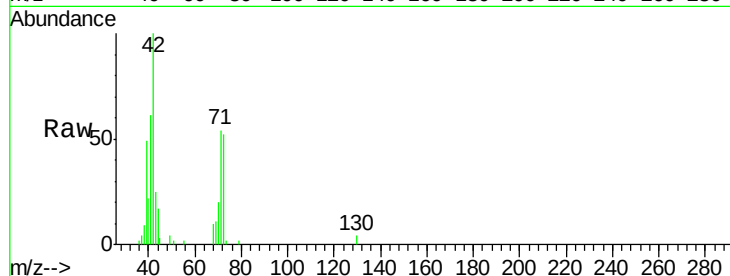
#41
Tetrahydrofuran
Concen: 0.333 ppbv
RT: 6.07 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	53.6	46.2	69.4
71	50.4	44.2	66.4

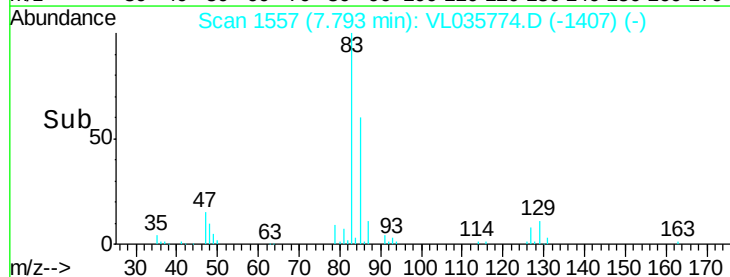
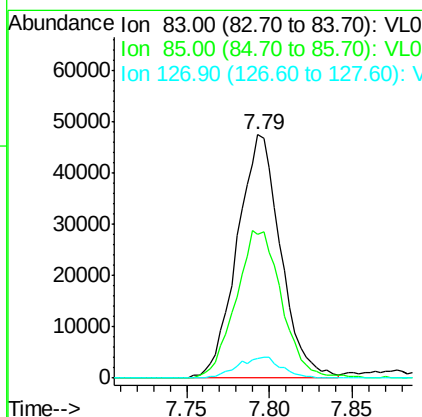
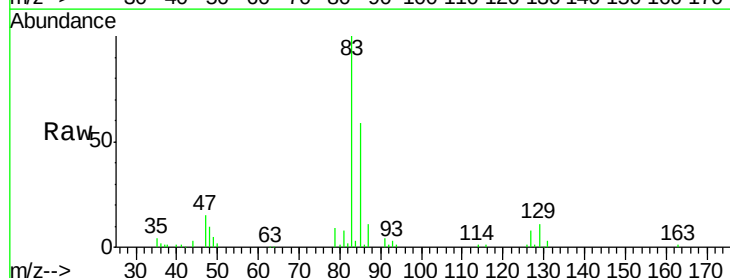
Manual Integrations
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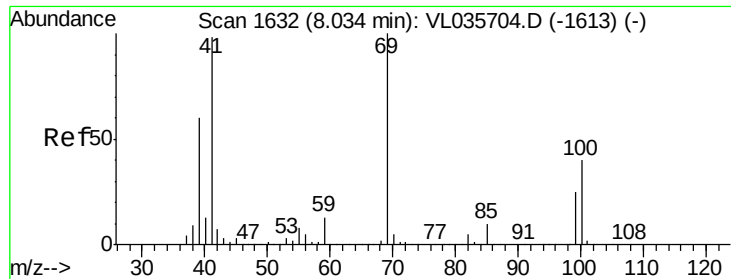
MMDadoda
10/14/2020 2:12:00 PM



#42
Bromodichloromethane
Concen: 0.396 ppbv
RT: 7.79 min Scan# 1557
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.3	53.4	80.0
127	7.9	7.8	11.6





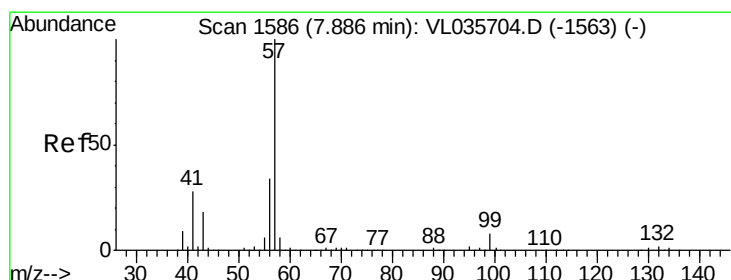
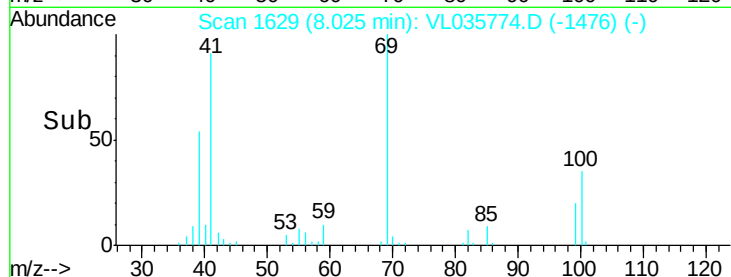
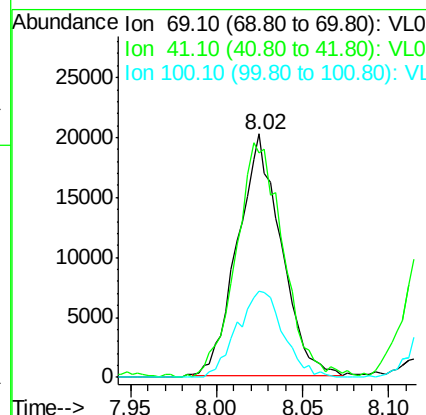
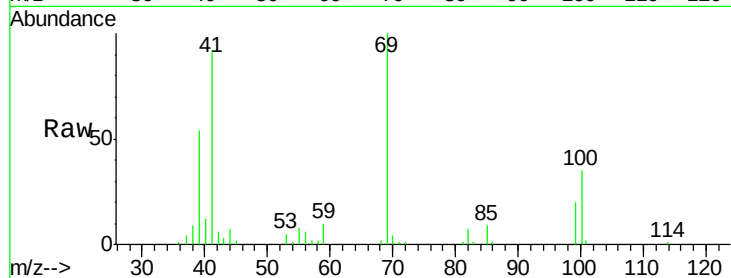
#43
Methvl Methacrylate
Concen: 0.340 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
69	100		
41	106.9	79.8	119.6
100	38.0	30.6	46.0

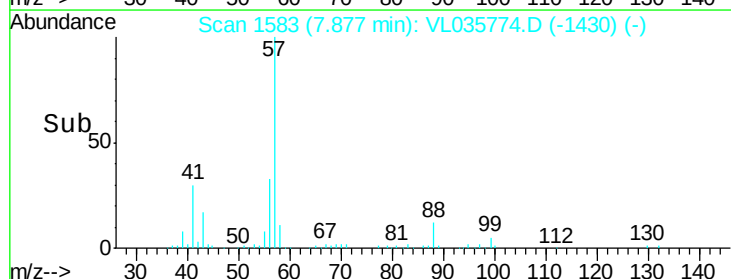
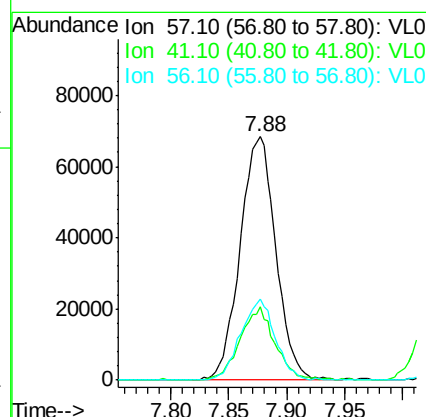
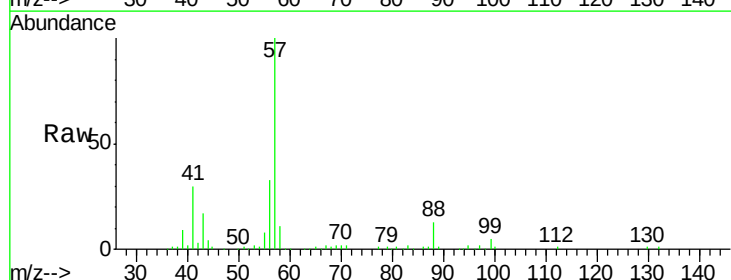
Manual Integrations
APPROVED

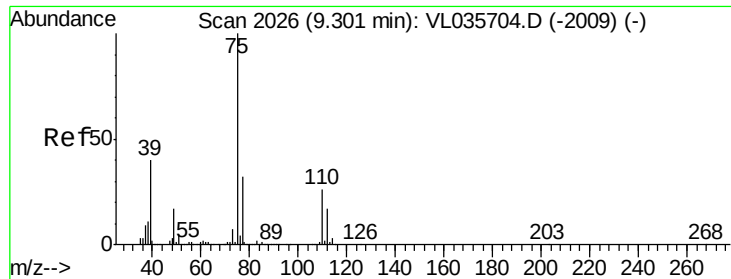
MMDadoda
10/14/2020 2:12:00 PM



#44
2,2,4-Trimethylpentane
Concen: 0.393 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
57	100		
41	29.7	21.2	31.8
56	32.2	25.8	38.8





#45

t-1,3-Dichloropropene

Concen: 0.300 ppbv

RT: 9.29 min Scan# 2021

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 75 Resp: 31281

Ion Ratio Lower Upper

75 100

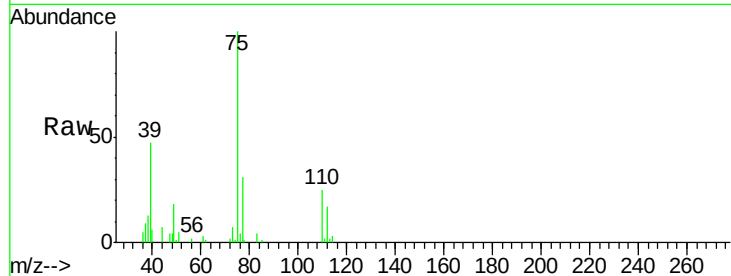
77 31.3 25.9 38.9

Manual Integrations

APPROVED

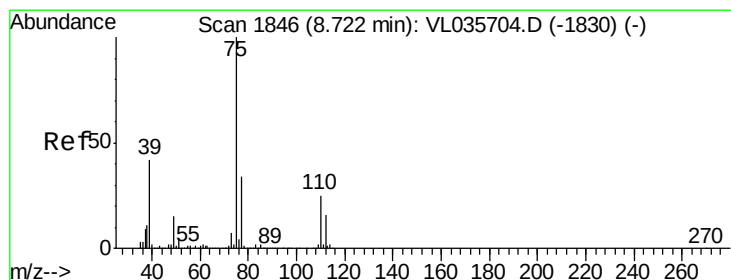
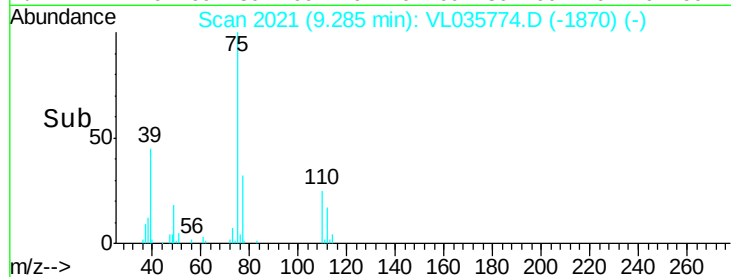
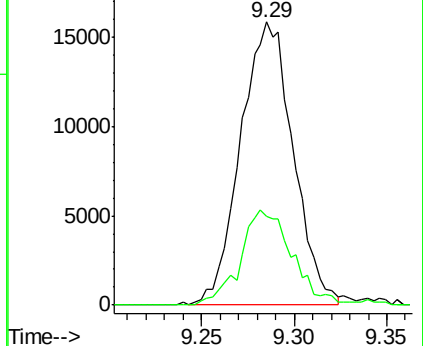
MMDadoda

10/14/2020 2:12:00 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.319 ppbv

RT: 8.71 min Scan# 1842

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

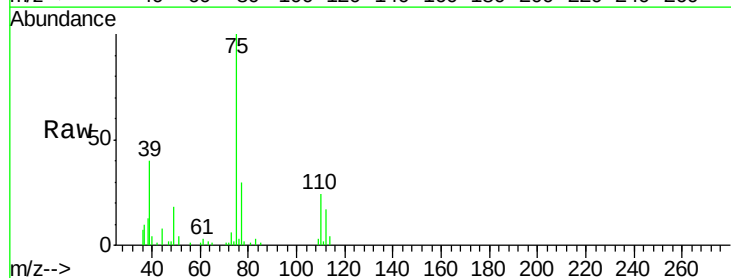
Tgt Ion: 75 Resp: 40978

Ion Ratio Lower Upper

75 100

39 37.9 33.9 50.9

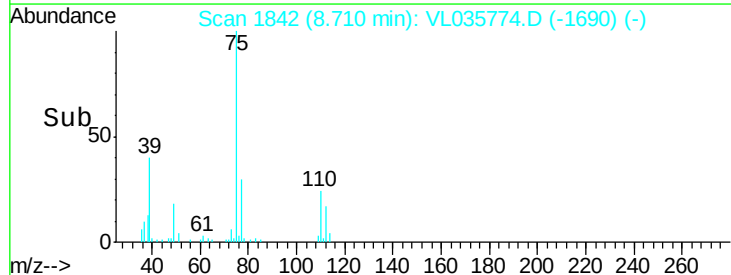
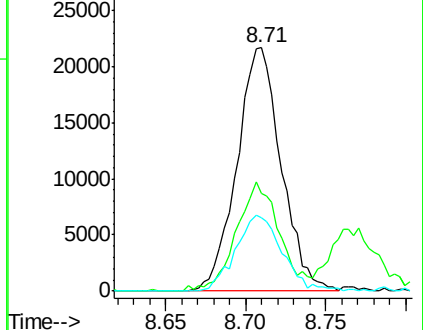
77 30.3 27.4 41.0

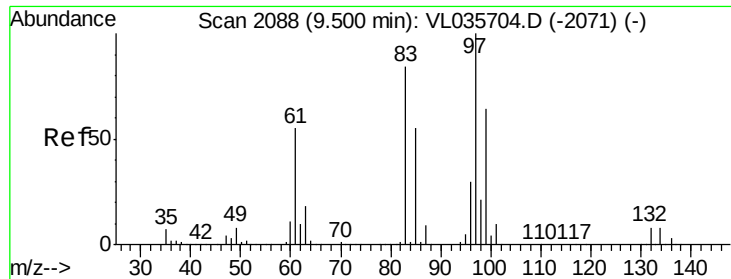


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





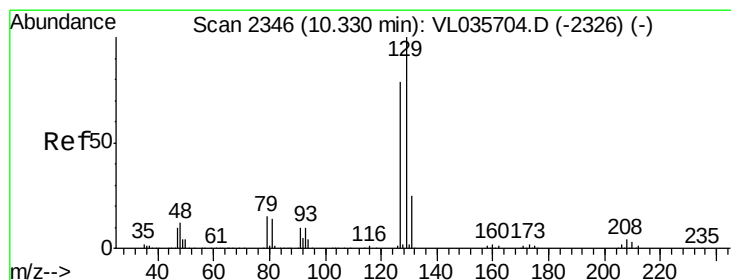
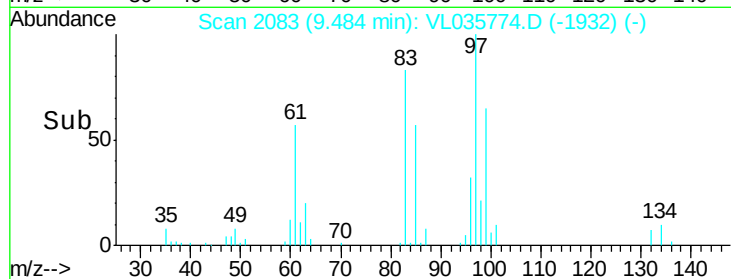
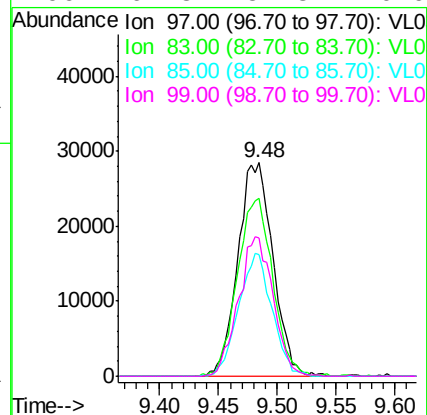
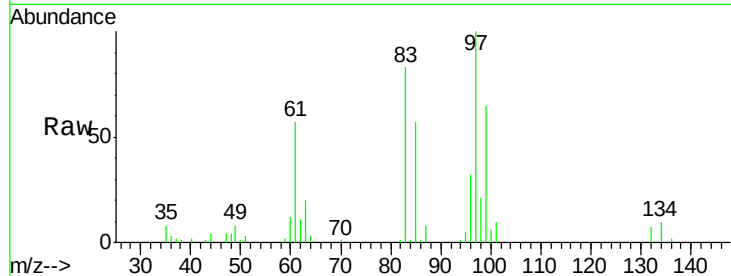
#47
1,1,2-Trichloroethane
Concen: 0.433 ppbv m
RT: 9.48 min Scan# 2083
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		58394		
83	83.3	67.1	100.7		
85	56.8	43.9	65.9		
99	64.8	51.3	76.9		

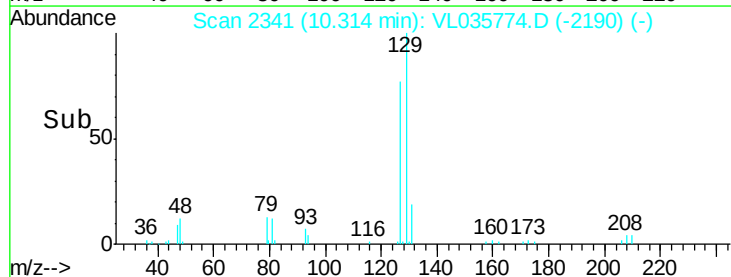
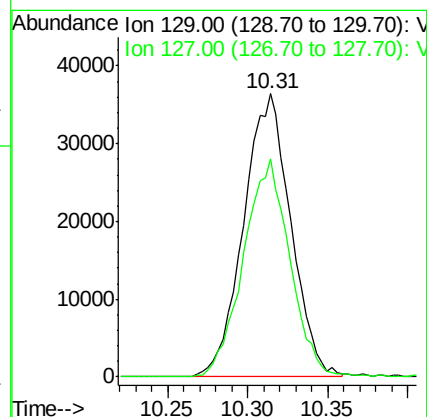
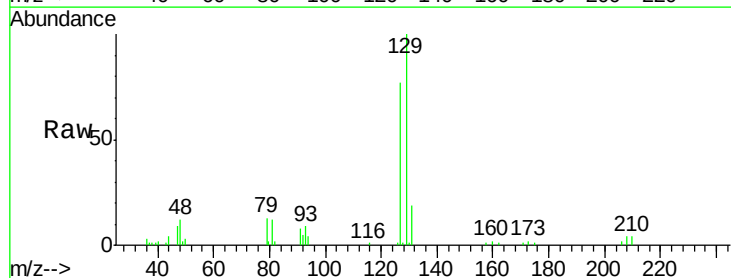
Manual Integrations
APPROVED

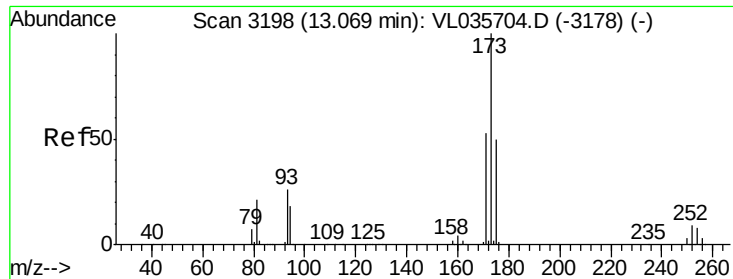
MMDadoda
10/14/2020 2:12:00 PM



#48
Dibromochloromethane
Concen: 0.358 ppbv
RT: 10.31 min Scan# 2341
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		73386		
127	75.6	39.4	118.1		





#49

Bromoform

Concen: 0.328 ppbv

RT: 13.06 min Scan# 3194

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

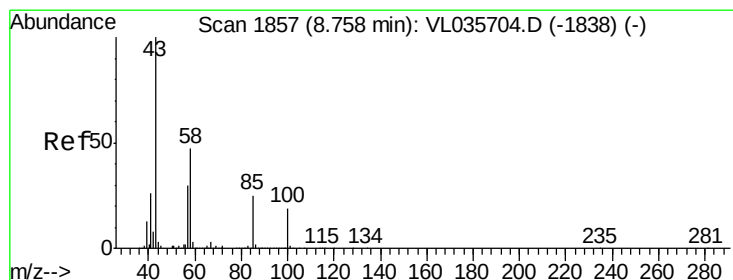
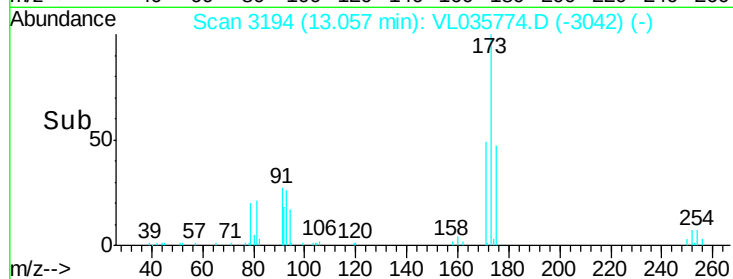
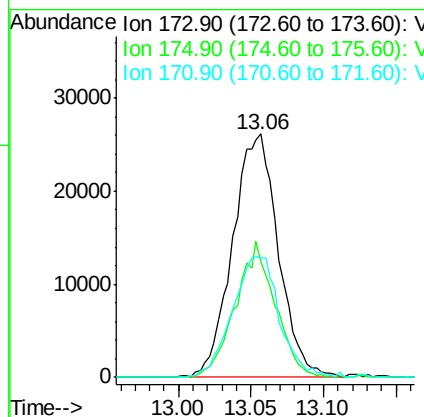
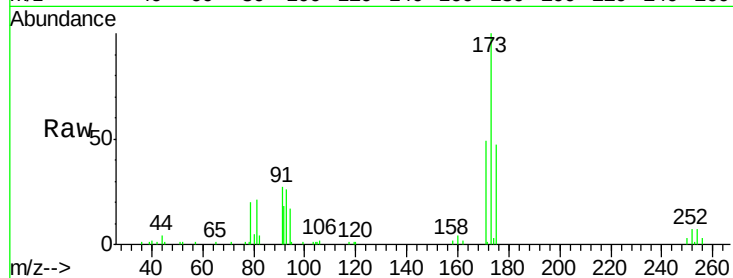
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	173	Resp:	57063
Ion	Ratio	Lower	Upper
173	100		
175	48.9	39.8	59.6
171	51.7	42.8	64.2

Manual Integrations
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10/14/2020 2:12:00 PM



#50

4-Methyl-2-Pentanone

Concen: 0.342 ppbv

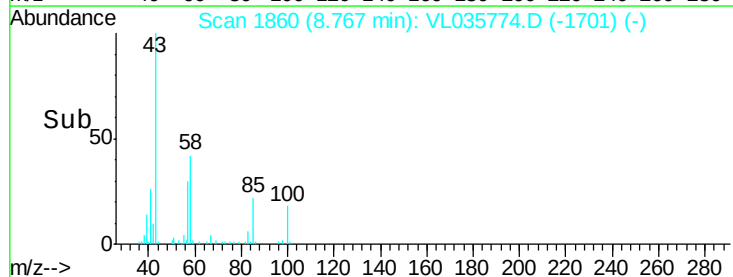
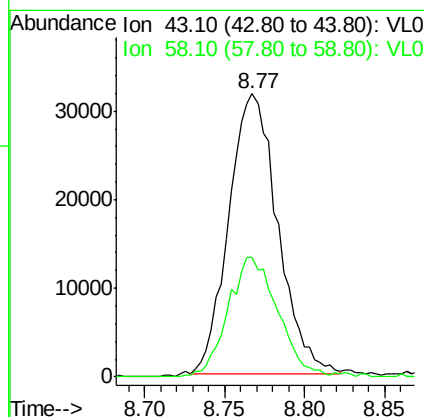
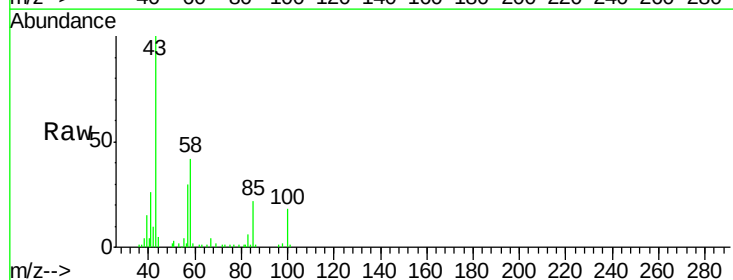
RT: 8.77 min Scan# 1860

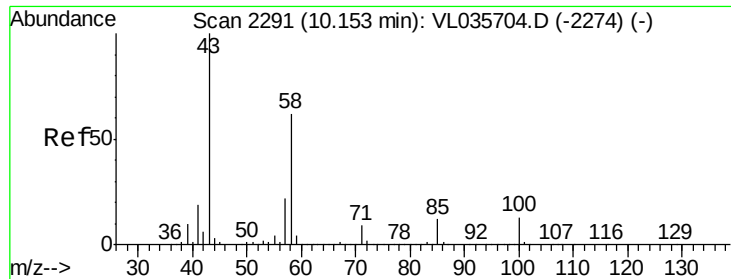
Delta R.T. 0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:	43	Resp:	65774
Ion	Ratio	Lower	Upper
43	100		
58	44.2	36.6	54.8





#51

2-Hexanone

Concen: 0.311 ppbv

RT: 10.17 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

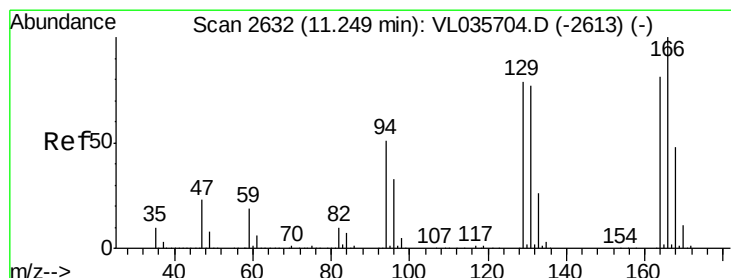
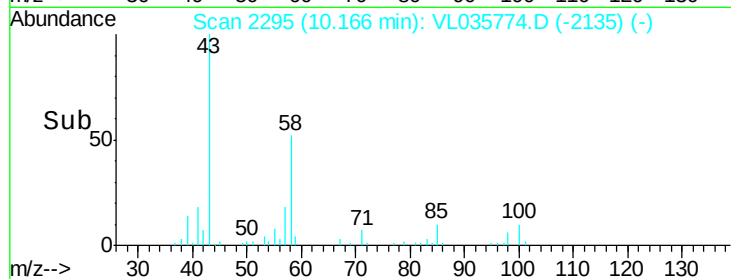
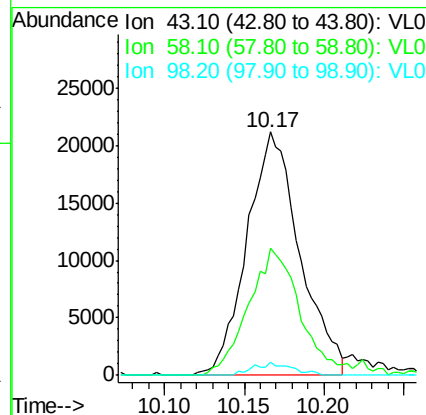
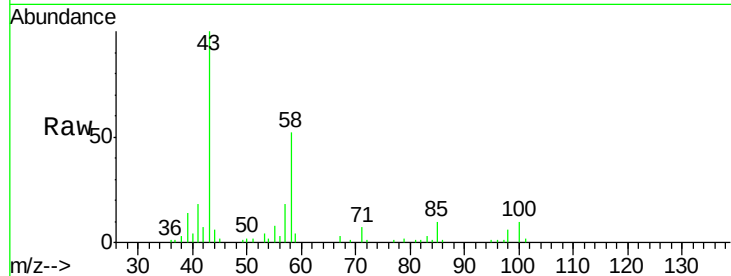
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	43	Resp:	48181
Ion	Ratio	Lower	Upper
43	100		
58	52.9	48.7	73.1
98	3.8	0.7	1.1#

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#52

Tetrachloroethene

Concen: 0.445 ppbv

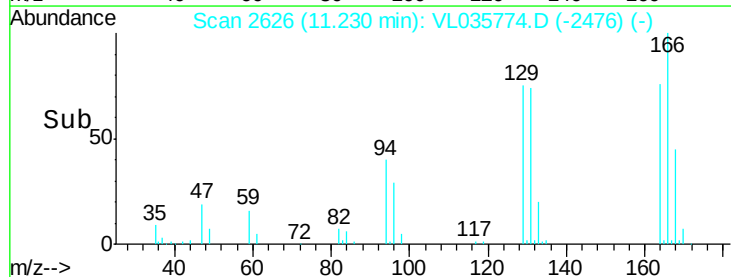
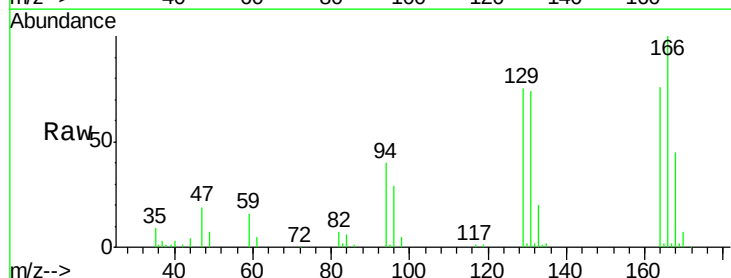
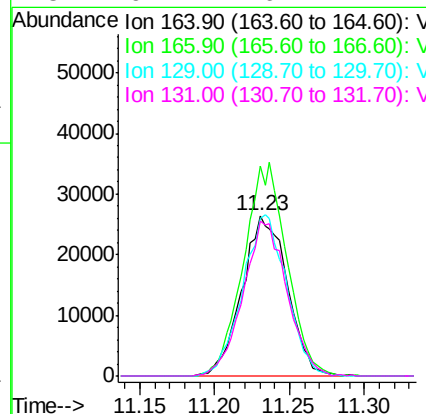
RT: 11.23 min Scan# 2626

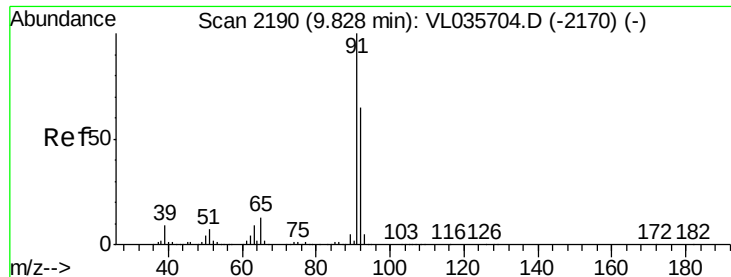
Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:	164	Resp:	55486
Ion	Ratio	Lower	Upper
164	100		
166	131.5	98.7	148.1
129	98.8	78.4	117.6
131	97.1	76.2	114.2





#53

Toluene

Concen: 0.350 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 107147

Ion Ratio Lower Upper

91 100

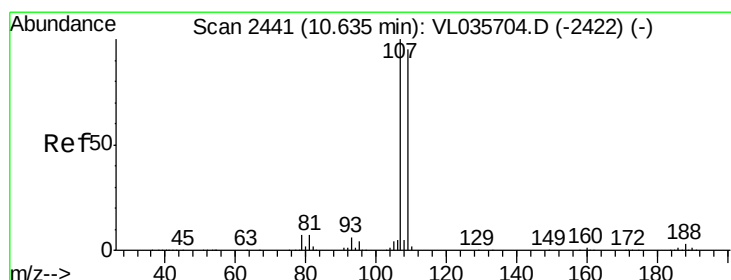
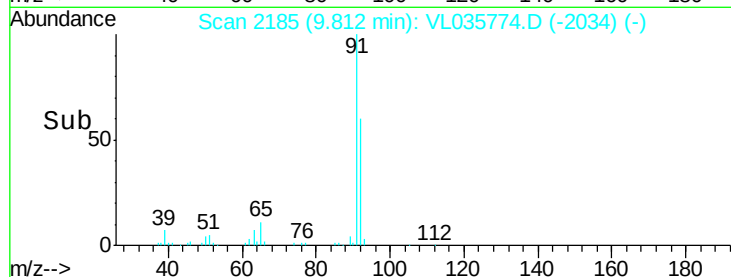
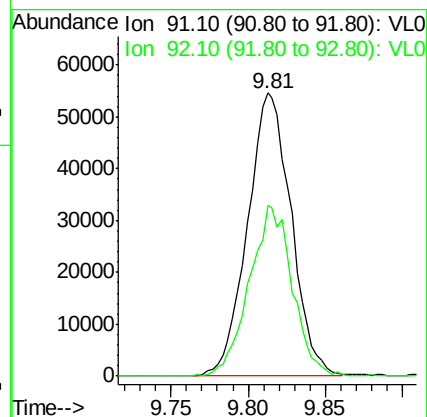
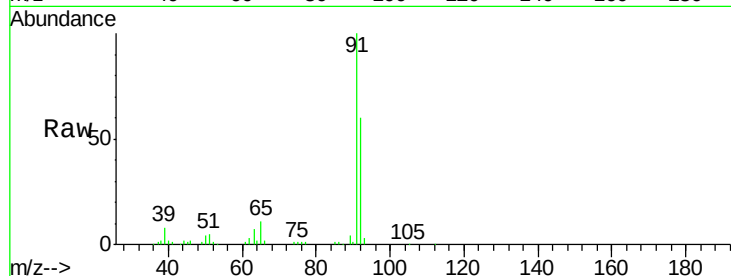
92 59.5 50.0 75.0

Manual Integrations

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10/14/2020 2:12:00 PM



#54

1,2-Dibromoethane

Concen: 0.412 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. -0.02 min

Lab File: VL035774.D

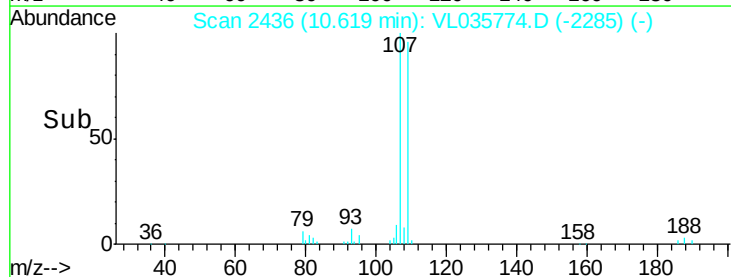
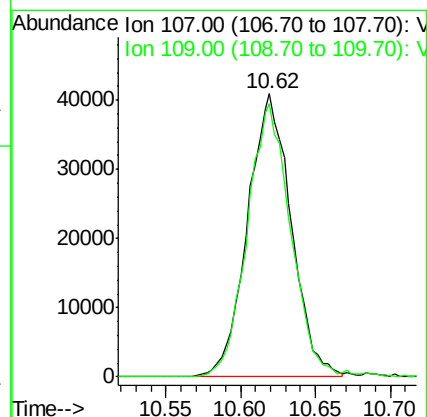
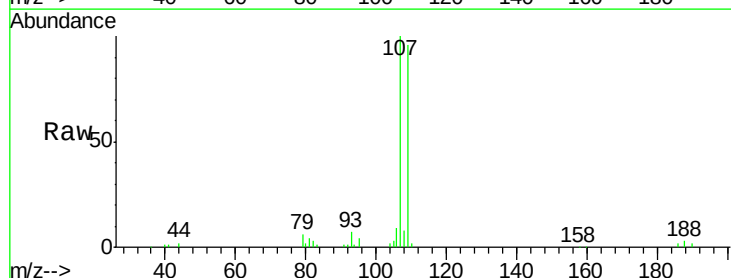
Acq: 12 Oct 2020 23:00

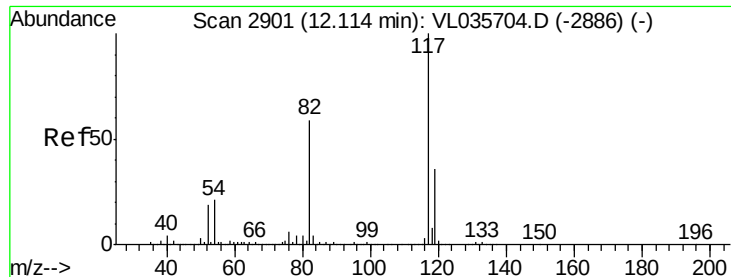
Tgt Ion: 107 Resp: 83150

Ion Ratio Lower Upper

107 100

109 96.5 76.0 114.0





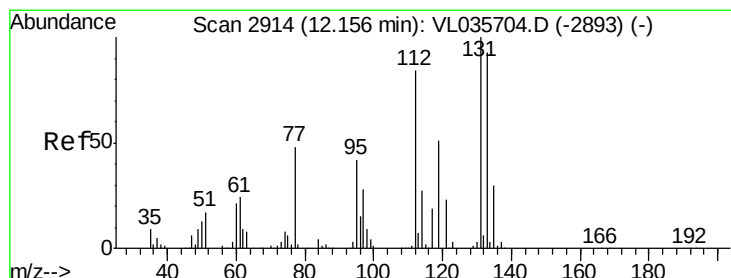
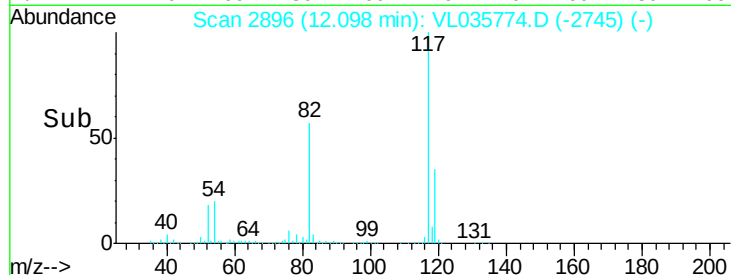
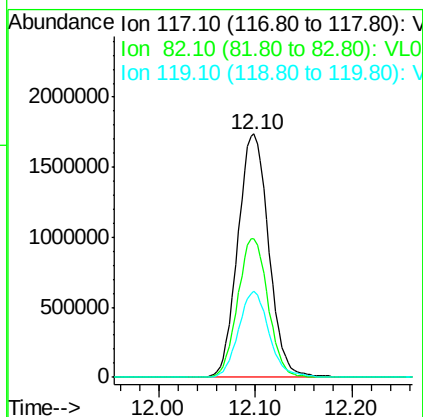
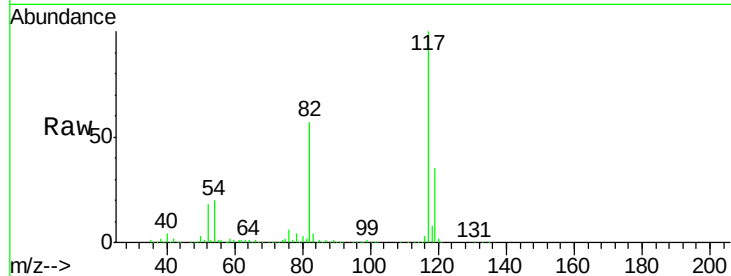
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion:117 Resp: 3861813
Ion Ratio Lower Upper
117 100
82 56.0 46.1 69.1
119 34.9 28.0 42.0

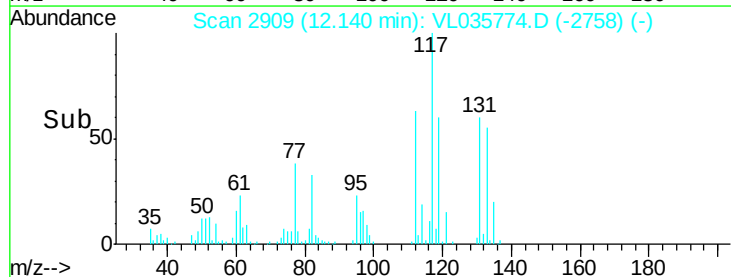
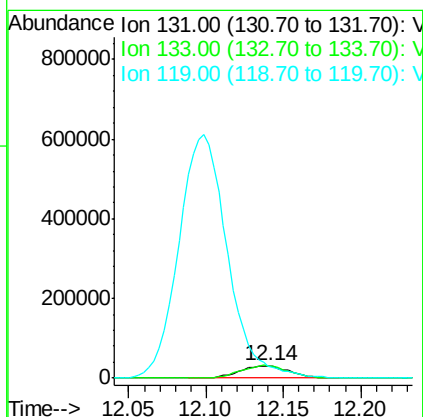
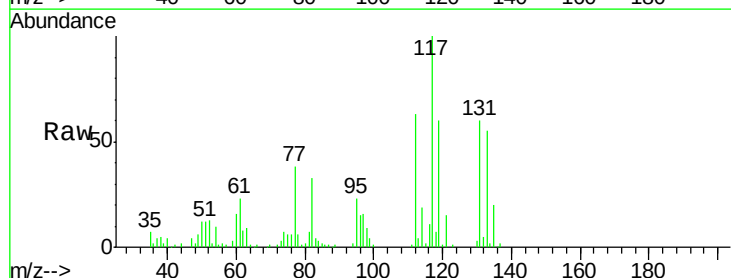
Manual Integrations
APPROVED

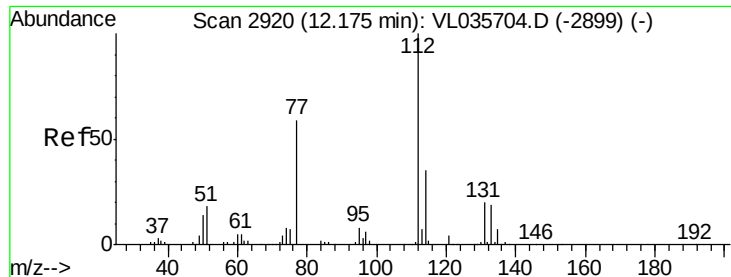
MMDadoda
10/14/2020 2:12:00 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.422 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion:131 Resp: 68409
Ion Ratio Lower Upper
131 100
133 99.2 76.2 114.4
119 1968.0 52.4 78.6#





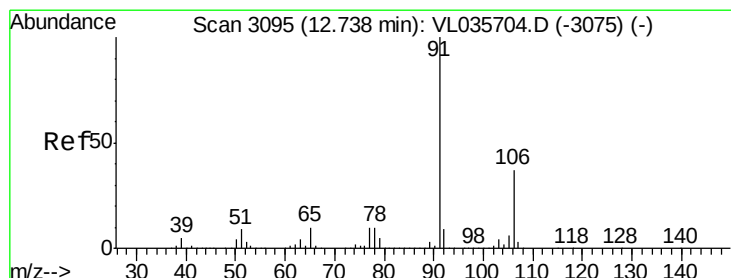
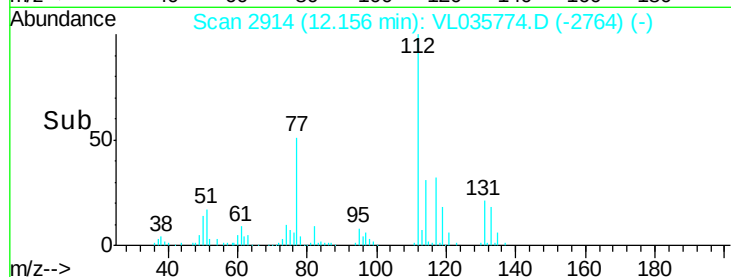
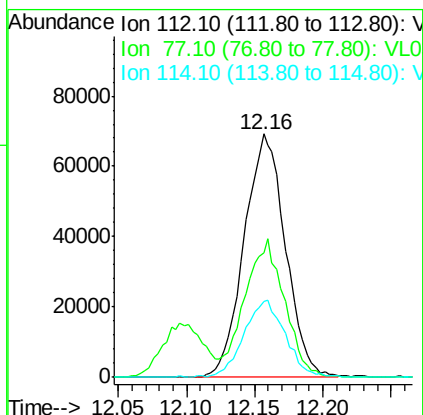
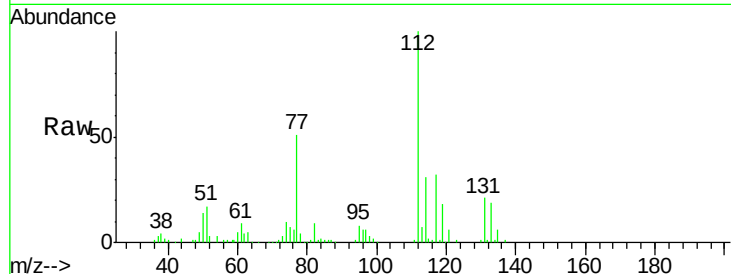
#57
Chlorobenzene
Concen: 0.497 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Resp Lower	Upper
112	100		
77	50.8	48.2	72.2
114	31.1	31.9	39.1#

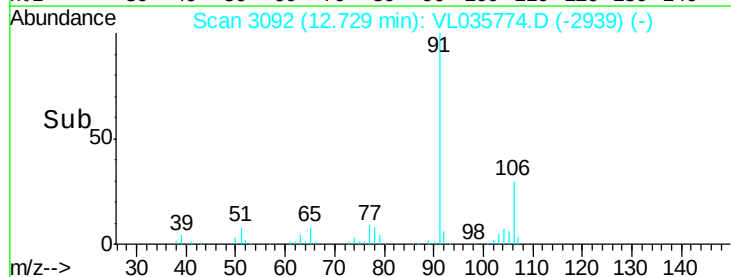
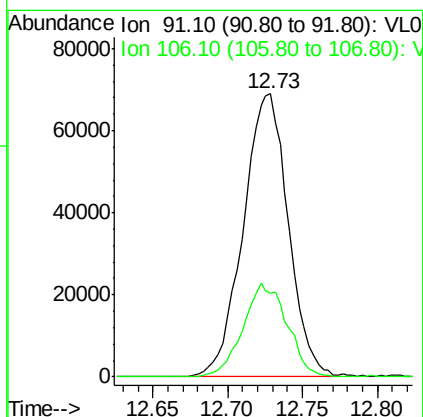
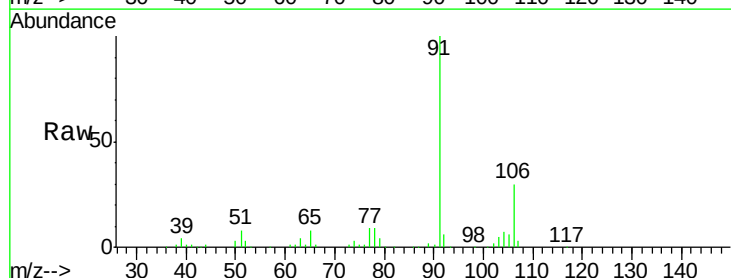
Manual Integrations
APPROVED

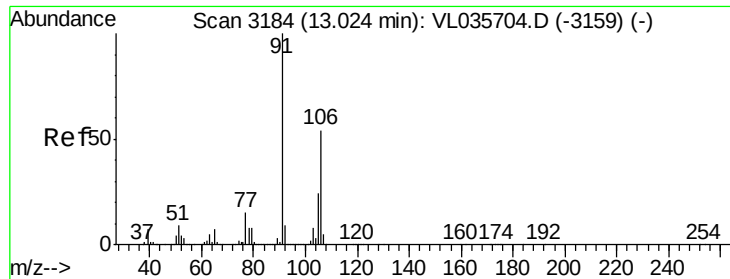
MMDadoda
10/14/2020 2:12:00 PM



#58
Ethyl Benzene
Concen: 0.373 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
106	29.7	29.7	44.5#





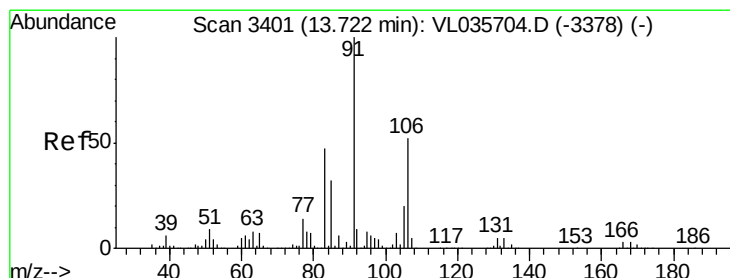
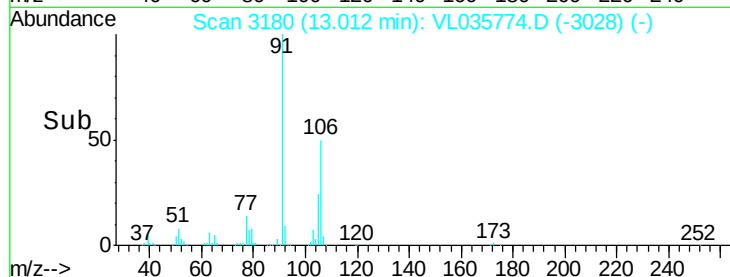
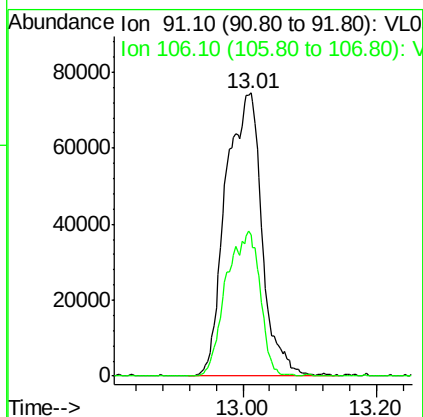
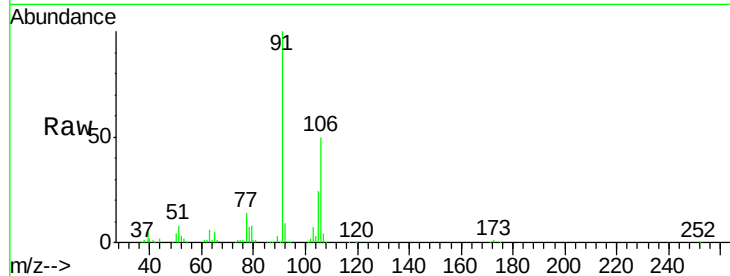
#59
m/p-Xylene
Concen: 0.830 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 281099
Ion Ratio Lower Upper
91 100
106 47.9 41.4 62.0

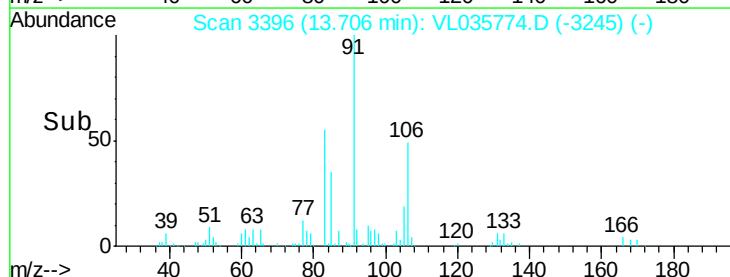
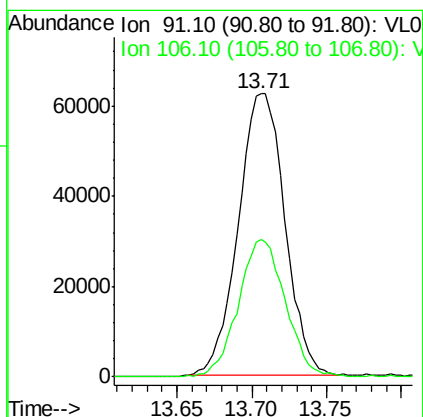
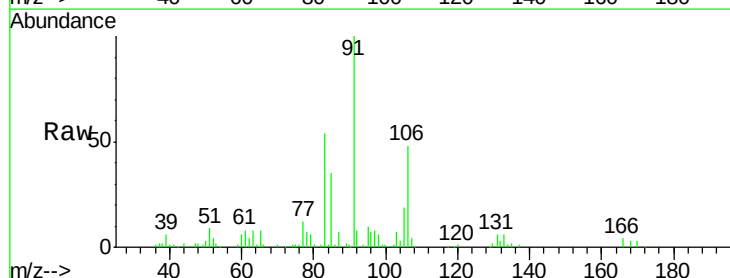
Manual Integrations
APPROVED

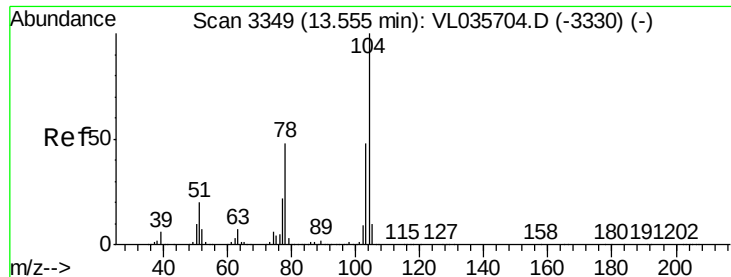
MMDadoda
10/14/2020 2:12:00 PM



#60
o-Xylene
Concen: 0.392 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion: 91 Resp: 134287
Ion Ratio Lower Upper
91 100
106 49.6 25.0 75.0





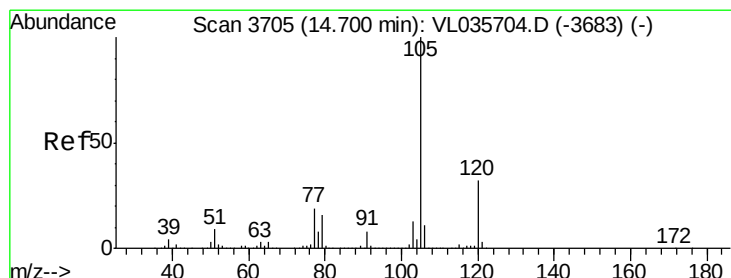
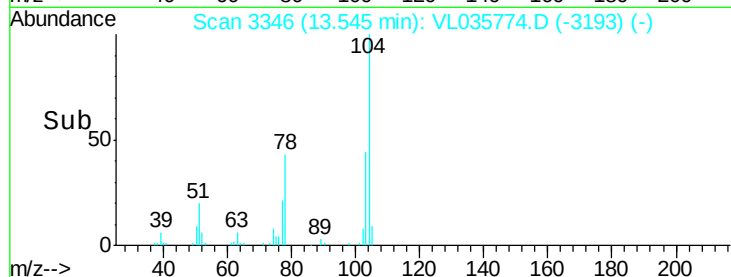
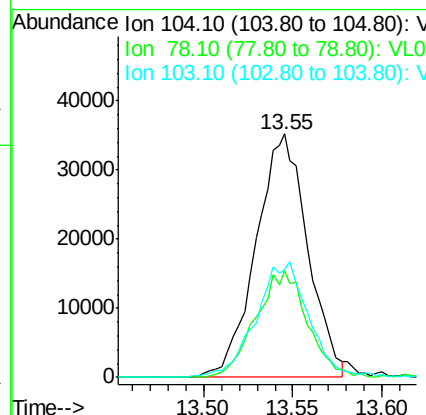
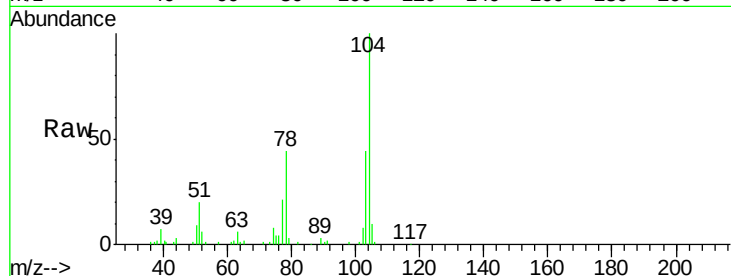
#61
Stvrene
Concen: 0.301 ppbv
RT: 13.55 min Scan# 3346
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
104	100		
78	43.9	37.2	55.8
103	48.5	38.2	57.2

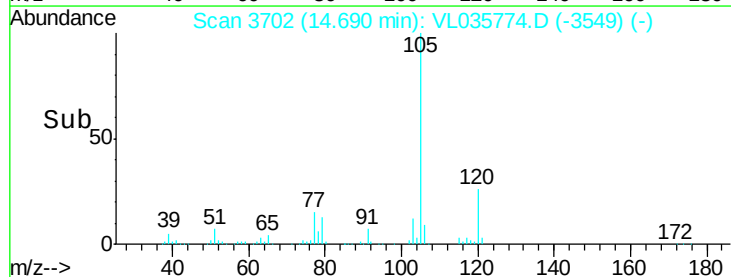
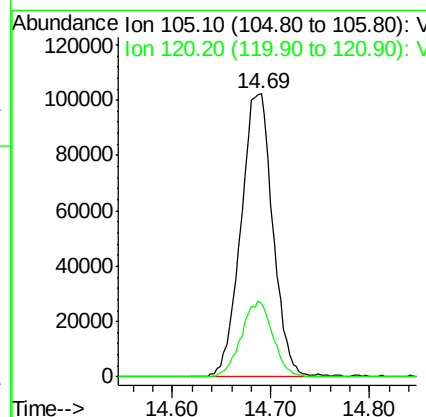
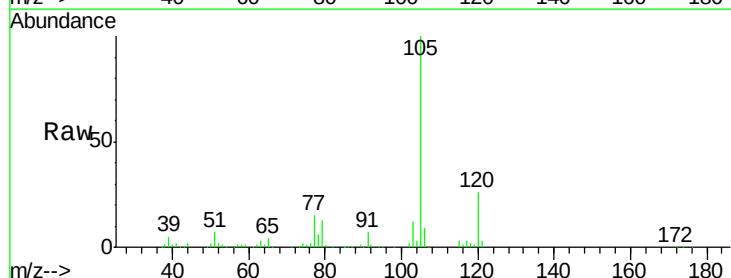
Manual Integrations
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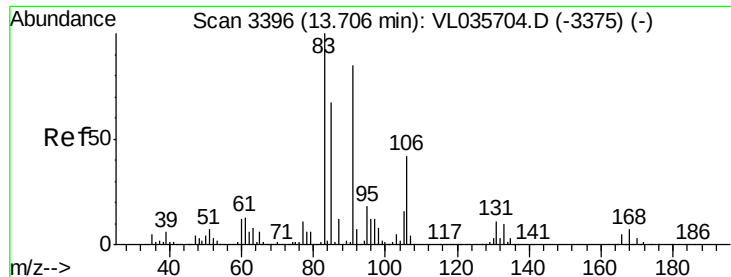
MMDadoda
10/14/2020 2:12:00 PM



#62
Isopropylbenzene
Concen: 0.431 ppbv m
RT: 14.69 min Scan# 3702
Delta R.T. -0.01 min
Lab File: VL035774.D
Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	24.1	36.1





#63

1,1,2,2-Tetrachloroethane

Concen: 0.449 ppbv

RT: 13.69 min Scan# 3391

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

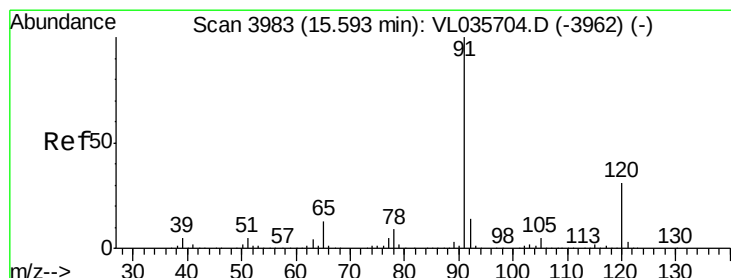
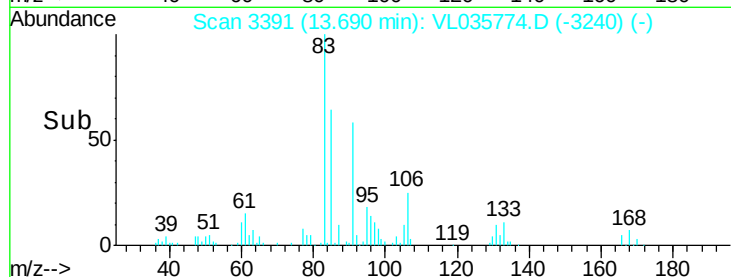
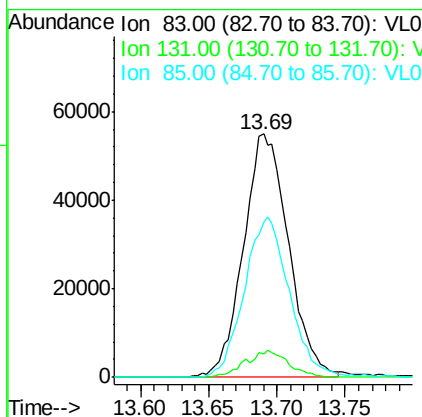
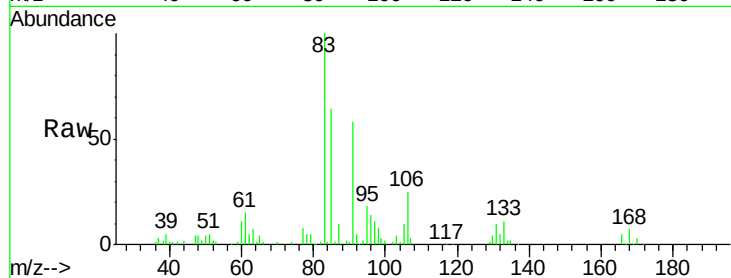
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	83	Resp:	126094
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	16.1
85	66.4	33.4	100.2

Manual Integrations
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10/14/2020 2:12:00 PM



#64

n-propylbenzene

Concen: 0.403 ppbv m

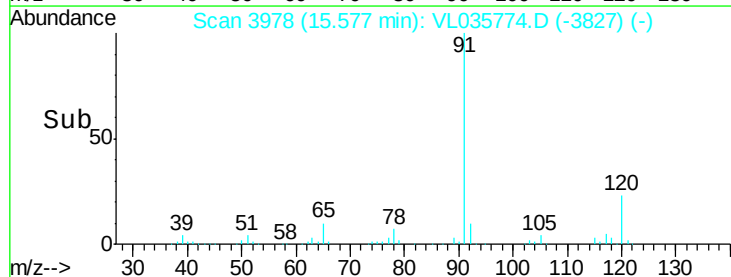
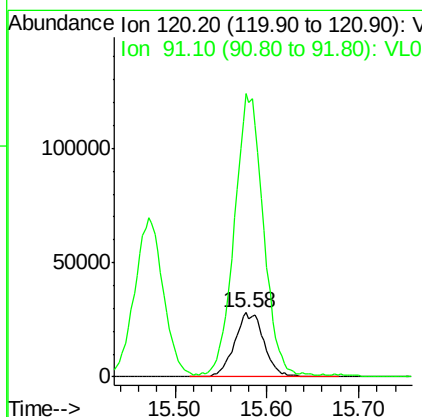
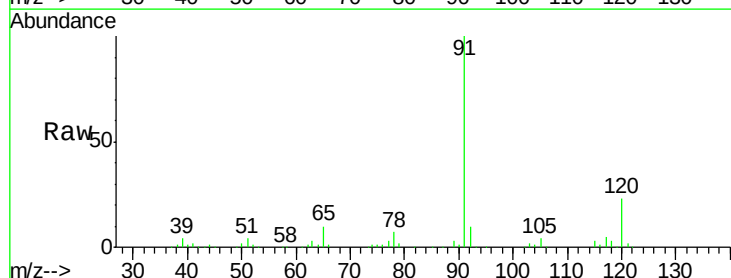
RT: 15.58 min Scan# 3978

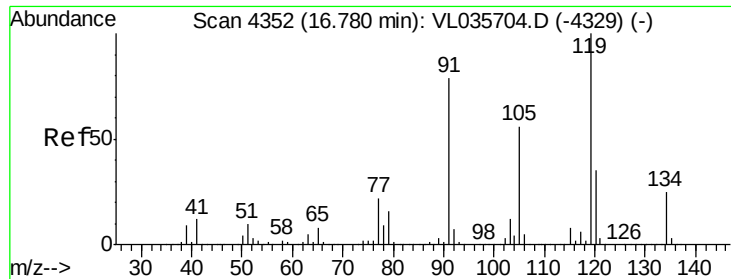
Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:	120	Resp:	62715
Ion Ratio	Lower	Upper	
120	100		
91	441.0	300.4	450.6





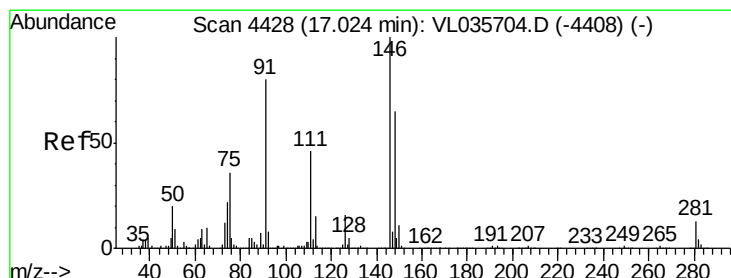
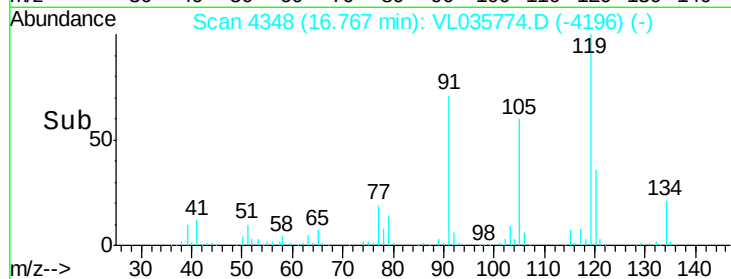
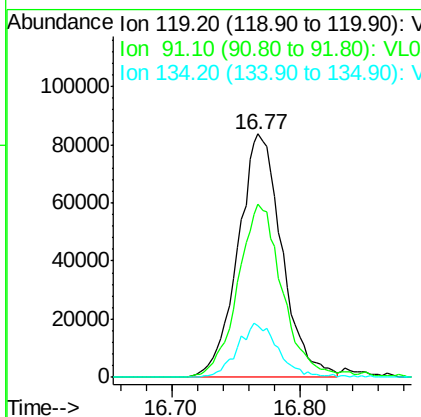
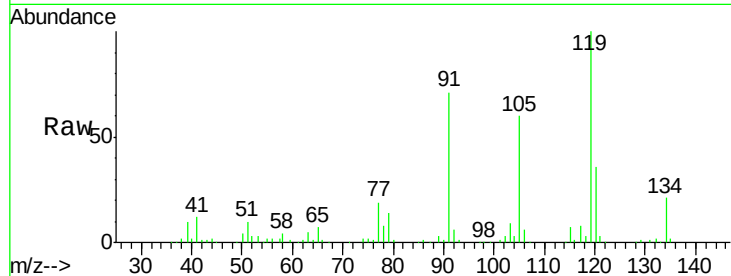
#65
 tert-Butylbenzene
 Concen: 0.409 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	197258		
91	73.9	62.4	93.6	
134	21.3	18.2	27.2	

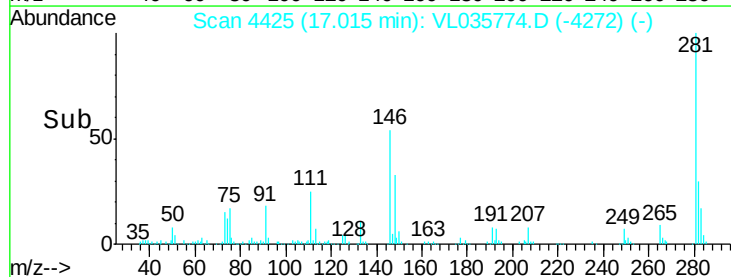
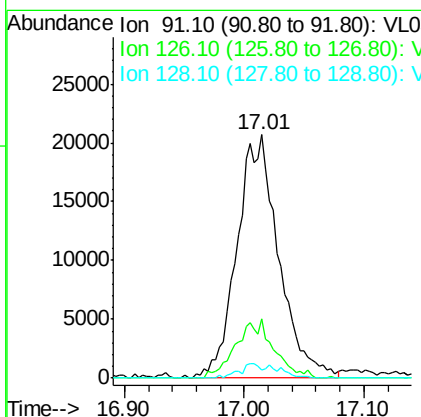
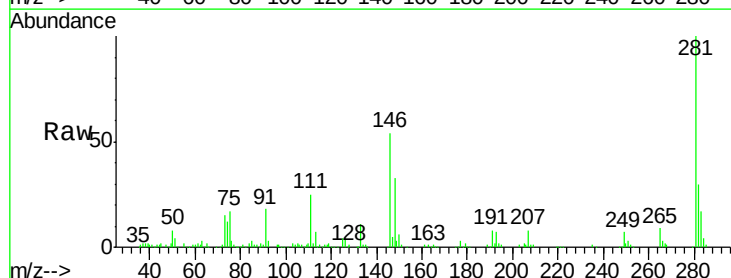
Manual Integrations
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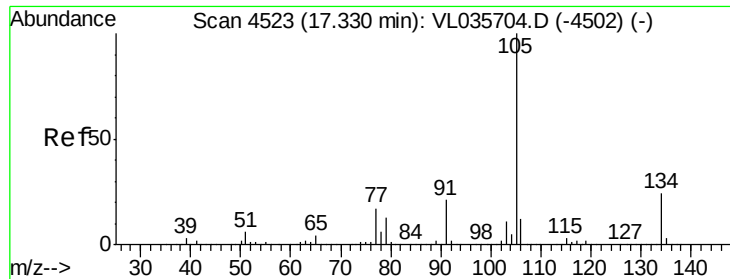
MMDadoda
 10/14/2020 2:12:00 PM



#66
 Benzyl Chloride
 Concen: 0.343 ppbv m
 RT: 17.01 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	50127		
126	0.0	15.3	22.9#	
128	5.3	5.0	7.4	





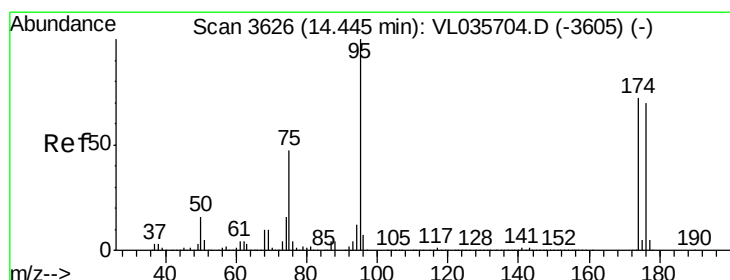
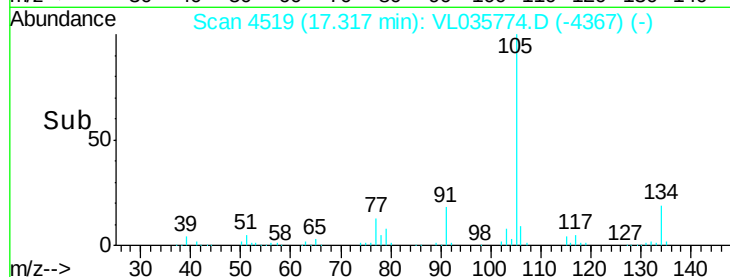
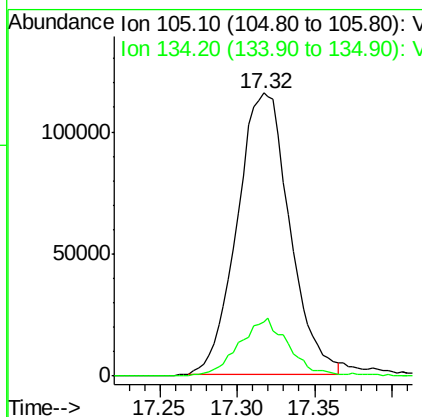
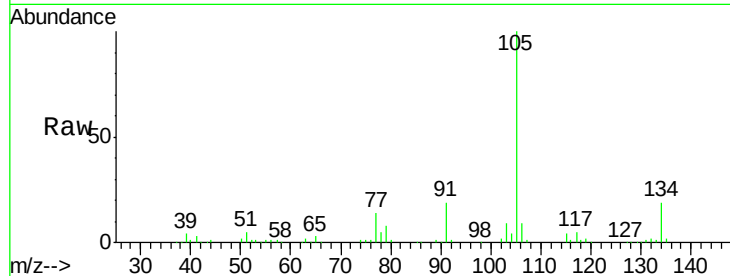
#67
 sec-Butylbenzene
 Concen: 0.408 ppbv
 RT: 17.32 min Scan# 4519
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.8	17.6	26.4

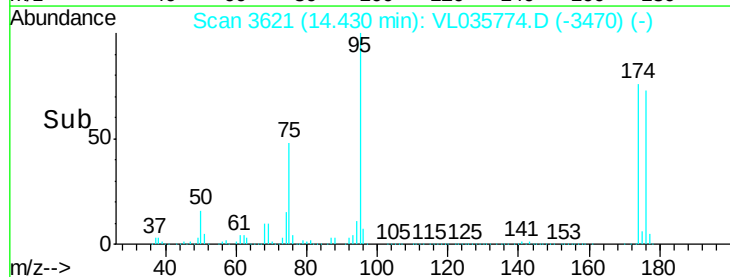
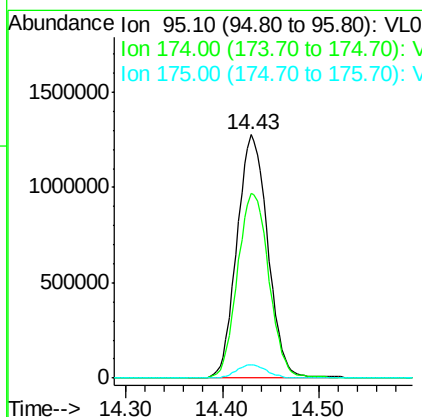
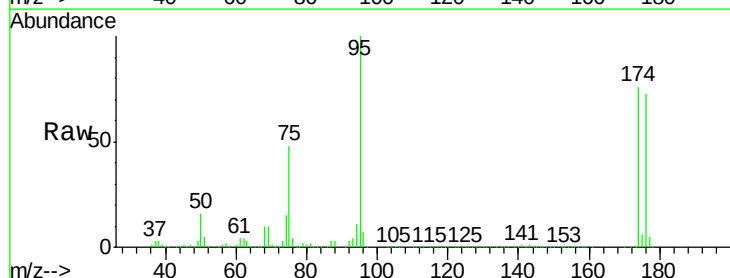
Manual Integrations
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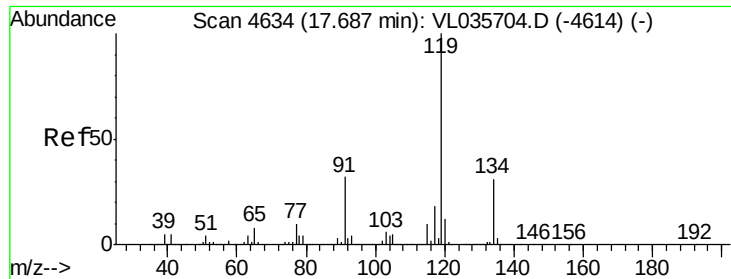
MMDadoda
 10/14/2020 2:12:00 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.809 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.02 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.2	59.6	89.4
175	5.6	4.2	6.4





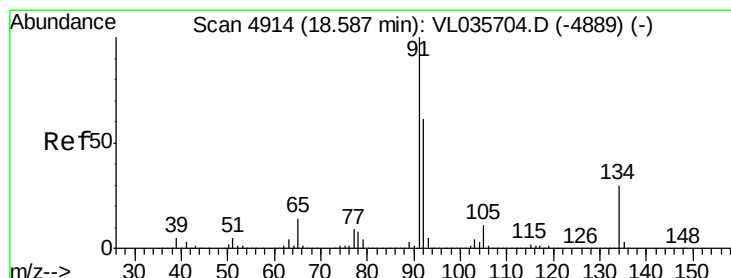
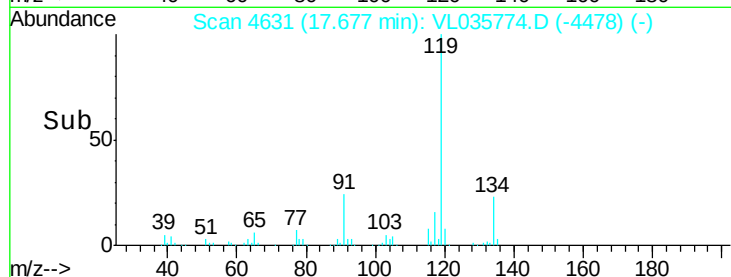
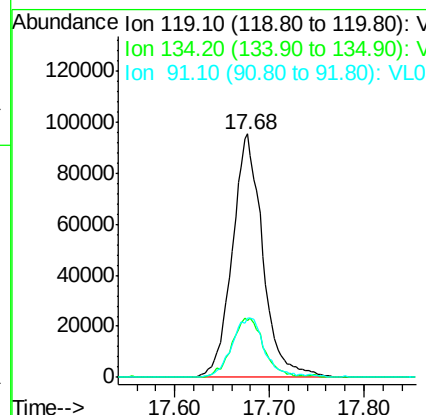
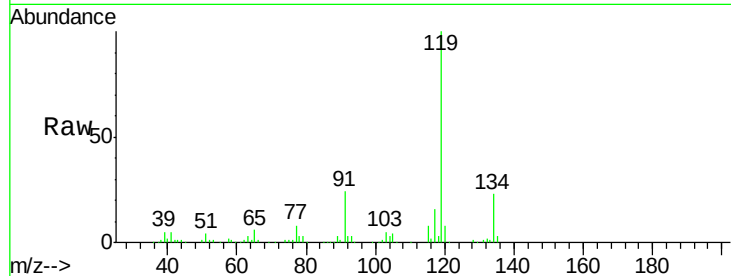
#69
 p-Isopropyltoluene
 Concen: 0.394 ppbv
 RT: 17.68 min Scan# 4631
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	23.9	35.9
91	26.9	23.8	35.6

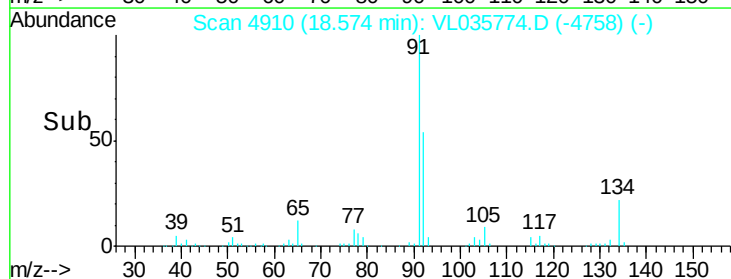
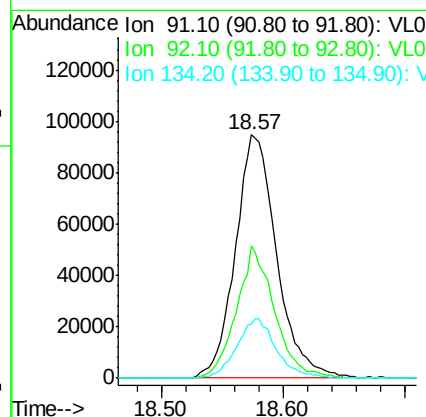
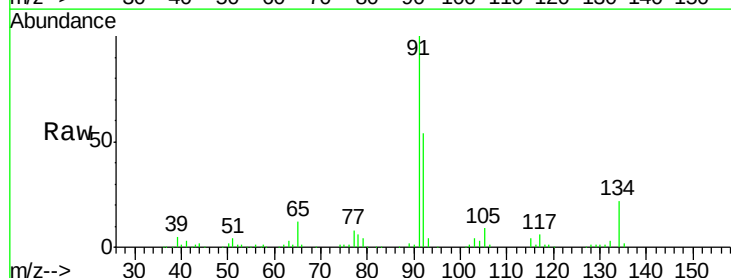
Manual Integrations
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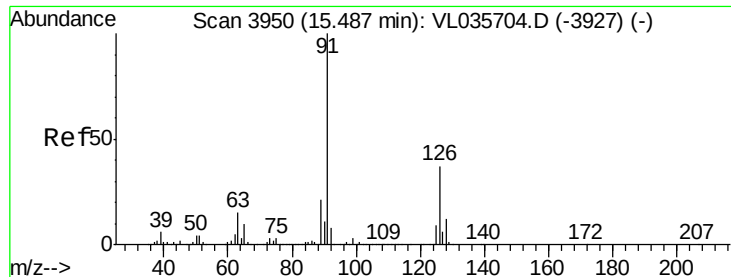
MMDadoda
 10/14/2020 2:12:00 PM



#70
 n-Butylbenzene
 Concen: 0.393 ppbv
 RT: 18.57 min Scan# 4910
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.6	47.0	70.4
134	23.7	21.9	32.9





#71

2-Chlorotoluene

Concen: 0.392 ppbv

RT: 15.47 min Scan# 3945

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 151748

Ion Ratio Lower Upper

91 100

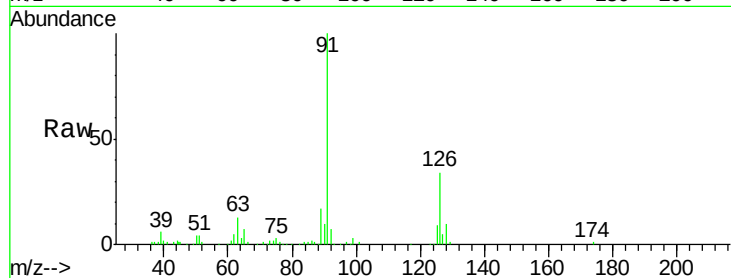
126 34.4 14.4 57.4

Manual Integrations

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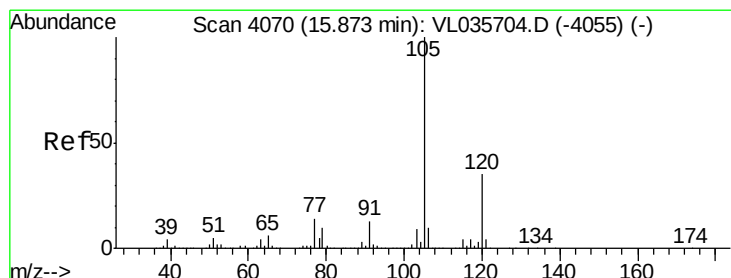
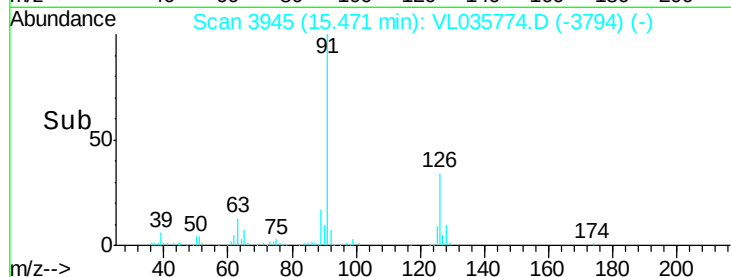
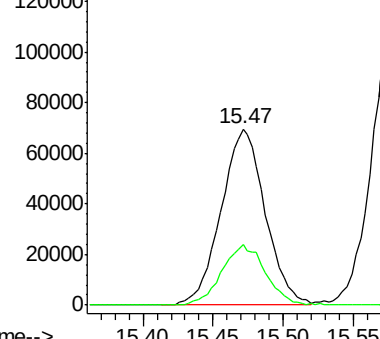
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.371 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion: 105 Resp: 150329

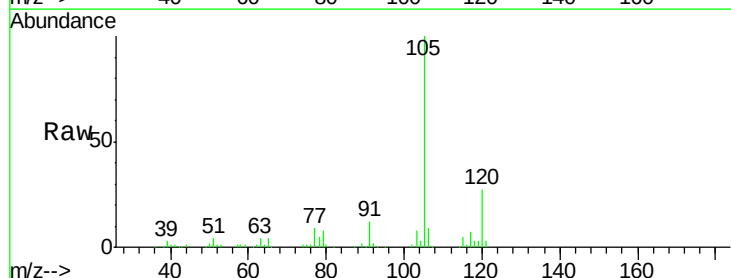
Ion Ratio Lower Upper

105 100

120 30.9 26.5 39.7

91 13.8 10.2 15.2

77 12.1 10.3 15.5

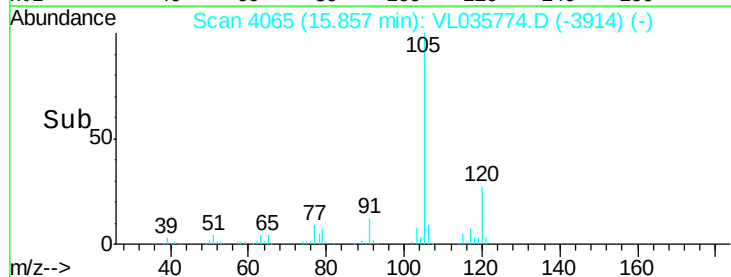
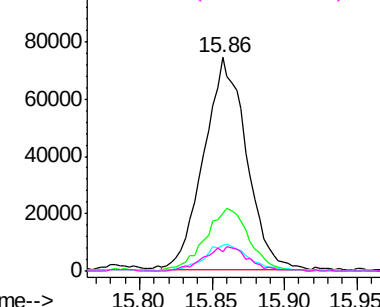


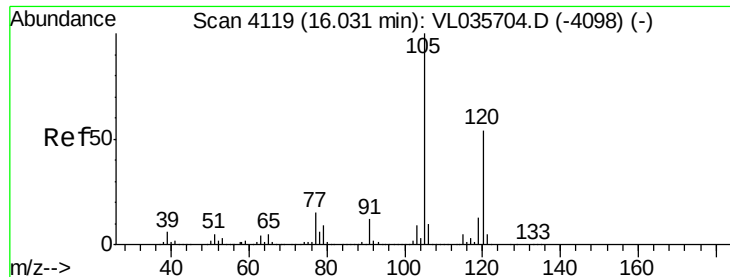
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.377 ppbv

RT: 16.02 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:105 Resp: 144606

Ion Ratio Lower Upper

105 100

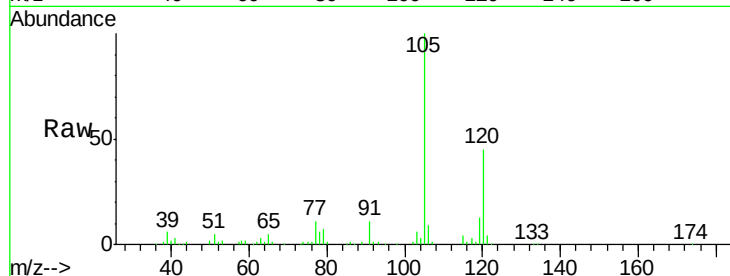
120 45.1 43.0 64.4

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.02

60000

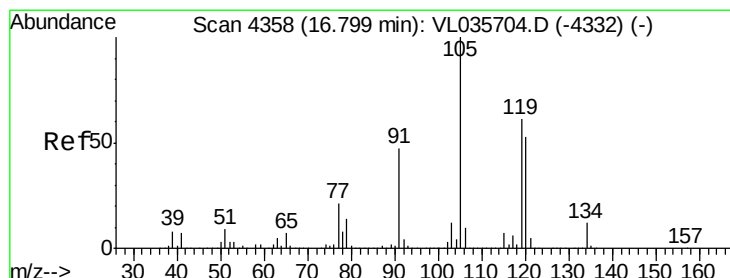
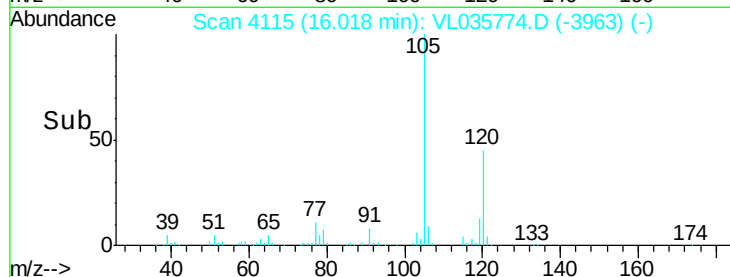
40000

20000

0

15.95 16.00 16.05

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.420 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:105 Resp: 181400

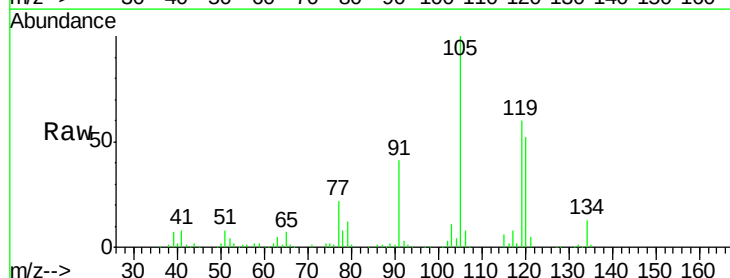
Ion Ratio Lower Upper

105 100

120 51.0 42.5 63.7

91 38.6 37.7 56.5

77 20.8 16.7 25.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO

16.78

120000

100000

80000

60000

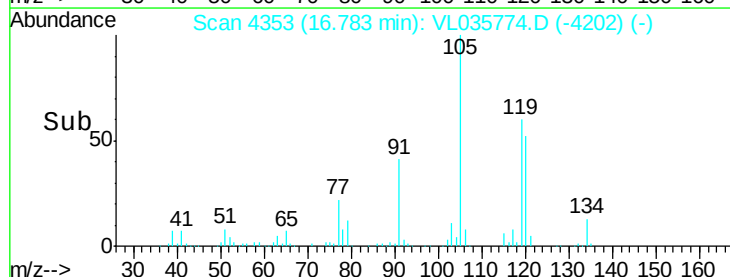
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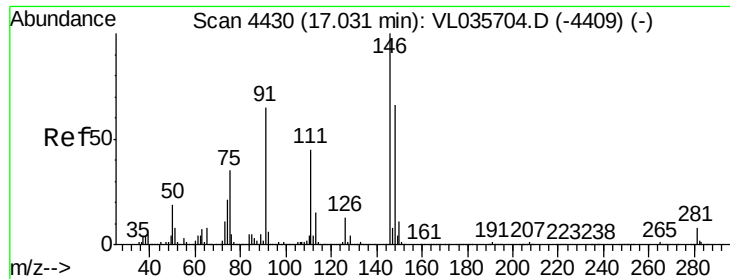
20000

0

16.70 16.75 16.80 16.85

Time-->





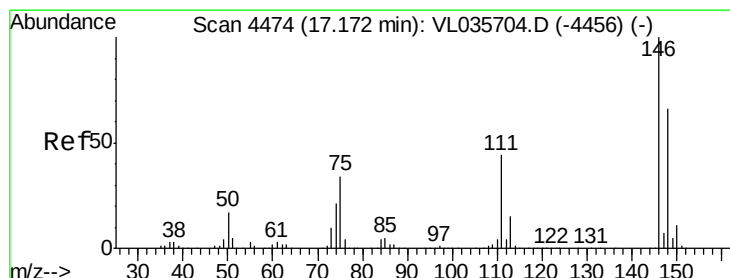
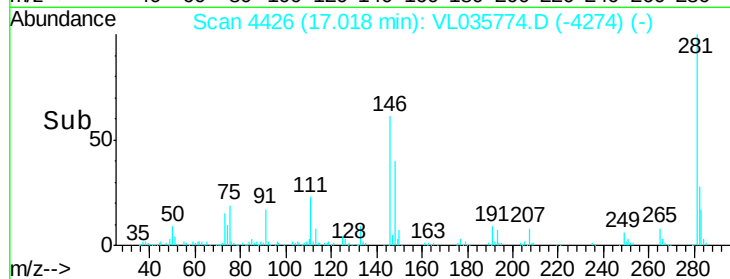
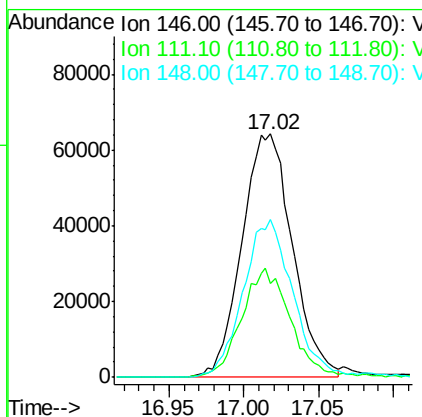
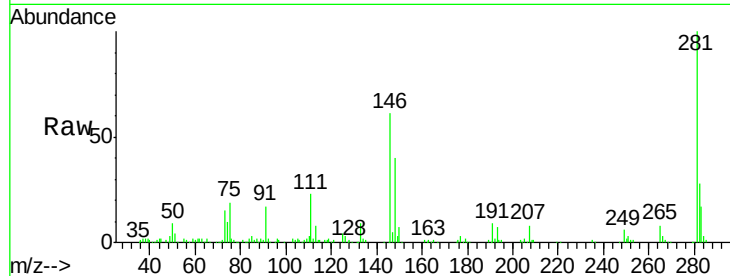
#75
 1,3-Dichlorobenzene
 Concen: 0.512 ppbv
 RT: 17.02 min Scan# 4426
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	151141		
111	43.6	22.4	67.0	
148	64.3	33.0	99.0	

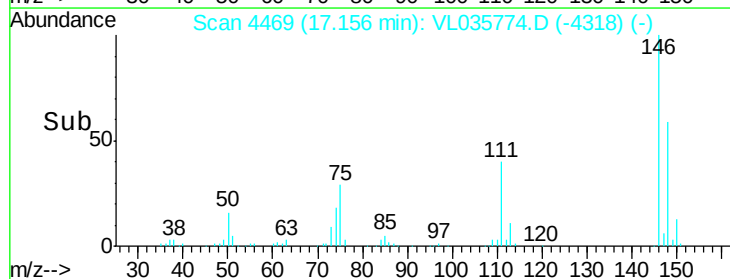
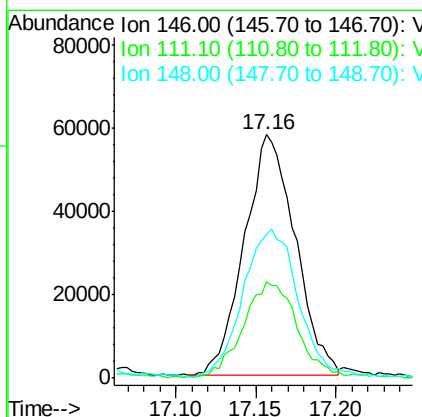
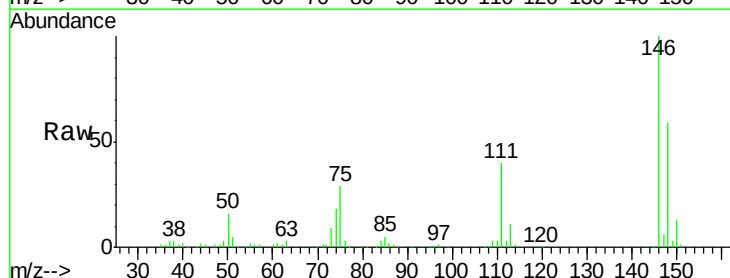
Manual Integrations
 APPROVED

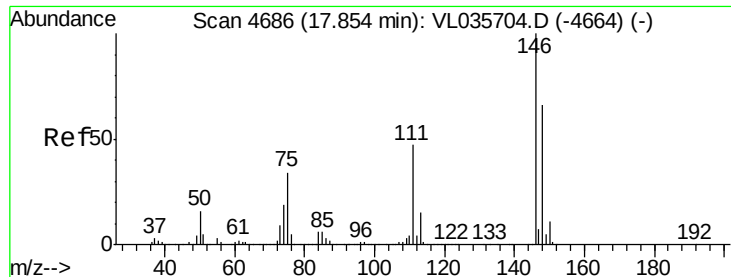
MMDadoda
 10/14/2020 2:12:00 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.450 ppbv
 RT: 17.16 min Scan# 4469
 Delta R.T. -0.02 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	126771		
111	43.4	21.4	64.3	
148	68.4	32.6	98.0	





#77

1,2-Dichlorobenzene

Concen: 0.469 ppbv

RT: 17.83 min Scan# 4680

Delta R.T. -0.02 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

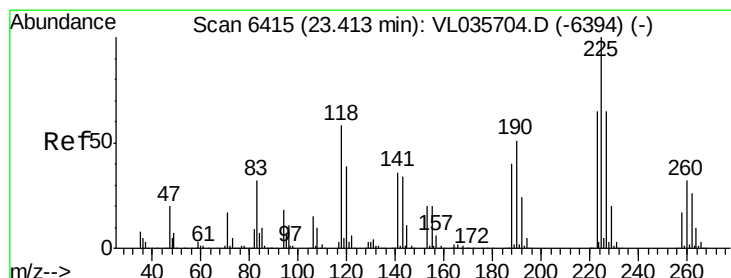
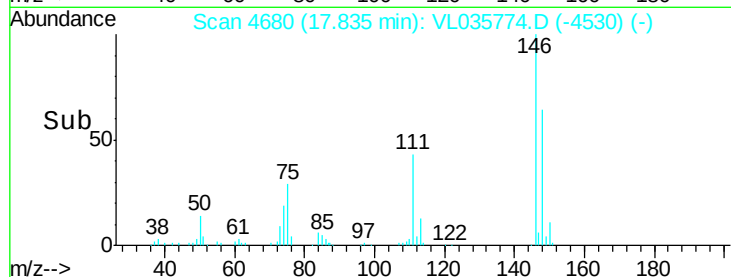
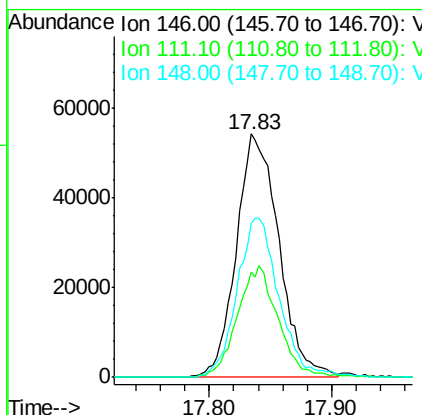
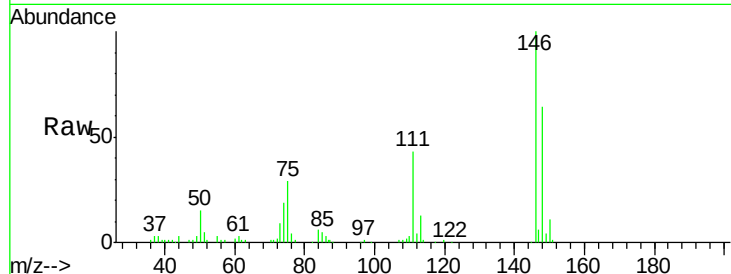
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion:	146	Resp:	130583
Ion Ratio	Lower	Upper	
146	100		
111	44.0	22.9	68.5
148	64.7	32.6	98.0

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#78

Hexachloro-1,3-Butadiene

Concen: 0.409 ppbv m

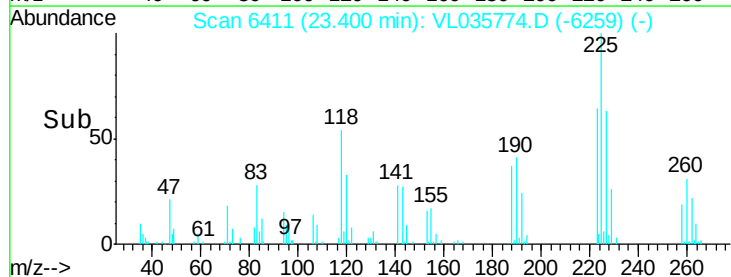
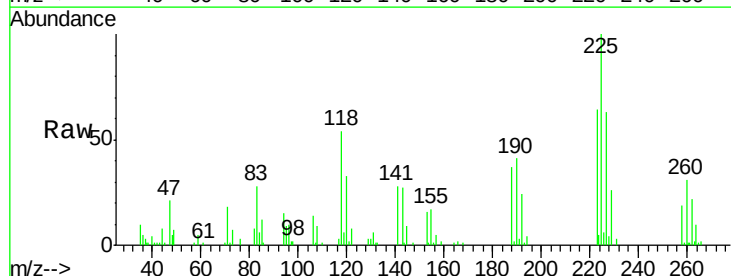
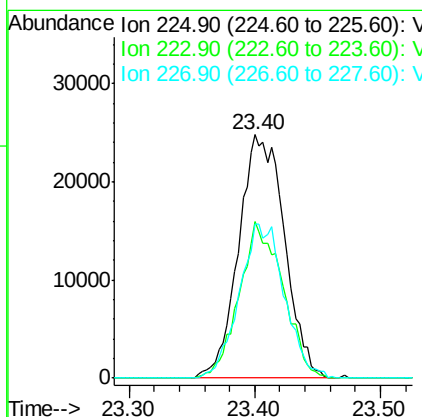
RT: 23.40 min Scan# 6411

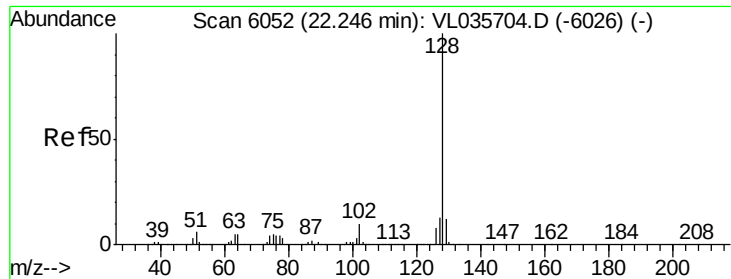
Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion:	225	Resp:	62917
Ion Ratio	Lower	Upper	
225	100		
223	61.1	51.3	76.9
227	62.1	51.6	77.4





#79

Naphthalene

Concen: 0.339 ppbv

RT: 22.24 min Scan# 6049

Delta R.T. -0.01 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Instrument :

MSVOA_L

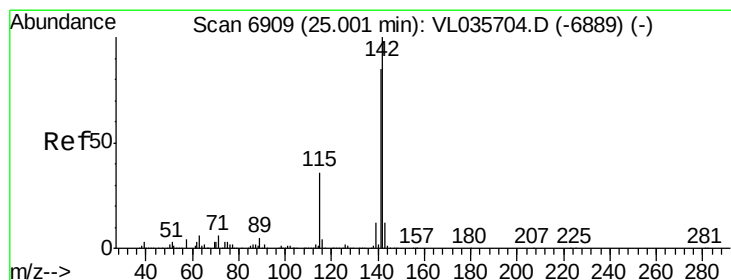
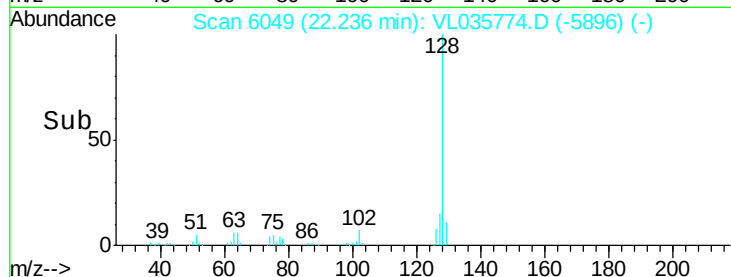
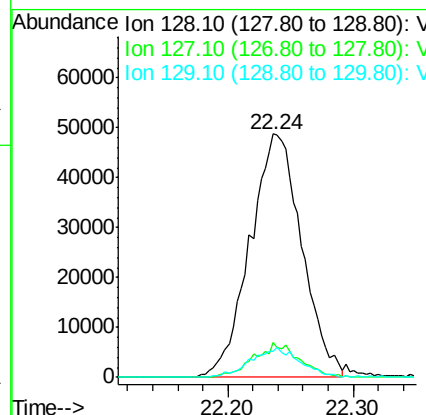
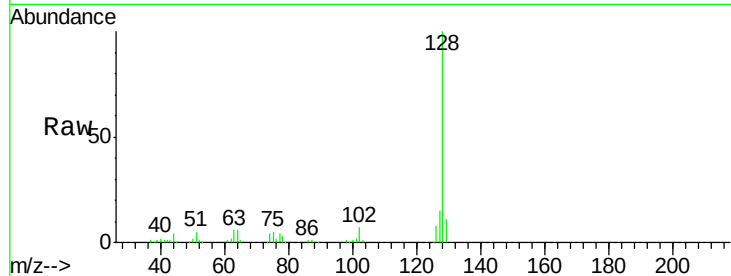
ClientSampleId :

LOD-MDL-AIR-01-QT4-2020

Tot Ion	128	Resp	139850
Ion Ratio	Lower	Upper	
128	100		
127	14.5	10.6	15.8
129	10.9	9.4	14.0

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.124 ppbv

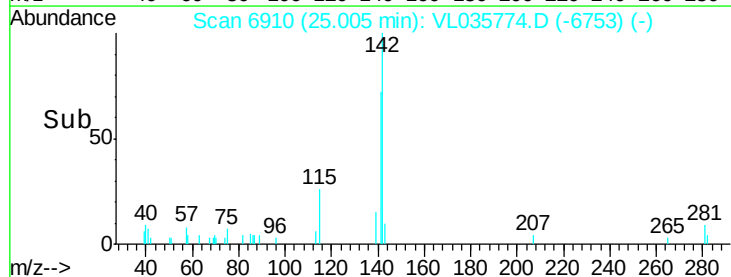
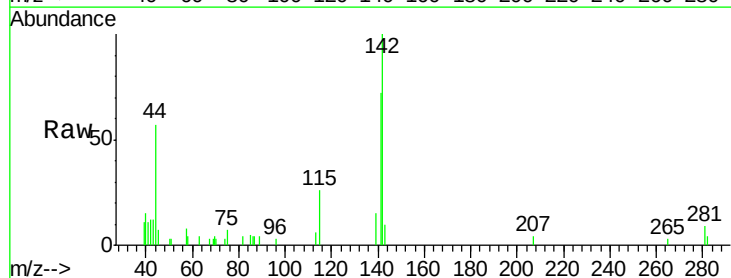
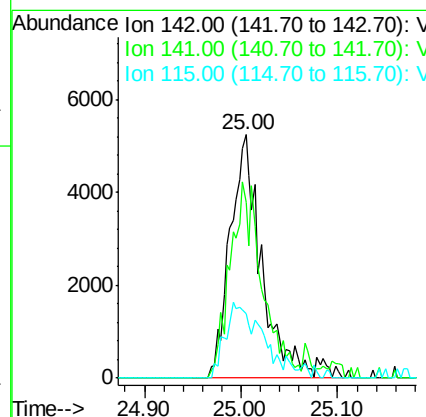
RT: 25.00 min Scan# 6910

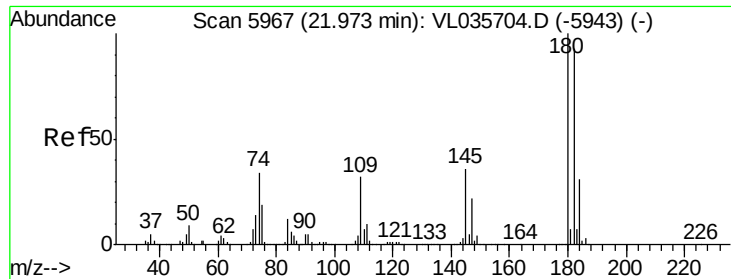
Delta R.T. 0.00 min

Lab File: VL035774.D

Acq: 12 Oct 2020 23:00

Tgt Ion	142	Resp	12095
Ion Ratio	Lower	Upper	
142	100		
141	79.3	68.2	102.4
115	38.2	27.8	41.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.428 ppbv m
 RT: 21.97 min Scan# 5965
 Delta R.T. -0.01 min
 Lab File: VL035774.D
 Acq: 12 Oct 2020 23:00

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.2	114.2
184	30.6	24.6	37.0

Manual Integrations
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MMDadoda
 10/14/2020 2:12:00 PM

