

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052021\
 Data File : VL037031.D
 Acq On : 20 May 2021 19:48
 Operator : SY/AP
 Sample : M2424-02 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05

Manual Integrations
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MMDadoda
 5/24/2021 3:27:11 PM

Quant Time: May 22 23:04:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1192245	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.14	114	3385238	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	3078109	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2263389	9.79	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	33934	0.155	ppbv #	90
9) Propene	2.98	41	777417	9.940	ppbv	96
10) Heptane	8.09	43	219068	1.124	ppbv	98
11) Trichlorofluoromethane	3.92	101	59335	0.317	ppbv	88
13) Ethanol	3.57	45	512721	49.132	ppbv	99
15) Acetone	3.82	43	15531531	127.185	ppbv #	88
17) tert-Butyl alcohol	4.27	59	151332	1.353	ppbv #	90
19) Isopropyl Alcohol	3.94	45	331713	5.053	ppbv #	30
20) Methylene Chloride	4.32	84	155508	2.376	ppbv	97
26) Hexane	5.65	57	456202	3.043	ppbv #	31
27) Carbon Disulfide	4.52	76	1563594	10.349	ppbv	99
29) Chloroform	5.72	83	27509	0.130	ppbv #	76
30) Cyclohexane	7.10	84	105325	0.827	ppbv #	80
34) 2-Butanone	5.21	43	1707788	13.855	ppbv	99
36) Benzene	6.86	78	2065822	7.085	ppbv	99
38) Trichloroethene	7.80	130	7720m	0.062	ppbv	
51) 2-Hexanone	10.10	43	290588	2.702	ppbv #	95
52) Tetrachloroethene	11.19	164	19711m	0.170	ppbv	
53) Toluene	9.77	91	2198851	6.338	ppbv	99
58) Ethyl Benzene	12.67	91	278557	0.641	ppbv	98
59) m/p-Xylene	12.93	91	283767m	0.790	ppbv	
60) o-Xylene	13.65	91	189133	0.552	ppbv	95
61) Styrene	13.49	104	44228m	0.229	ppbv	
62) Isopropylbenzene	14.63	105	89331	0.181	ppbv	96
64) n-propylbenzene	15.52	120	16856m	0.133	ppbv	
73) 1,3,5-Trimethylbenzene	15.96	105	115227	0.302	ppbv	87
74) 1,2,4-Trimethylbenzene	16.73	105	239373	0.606	ppbv #	70

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

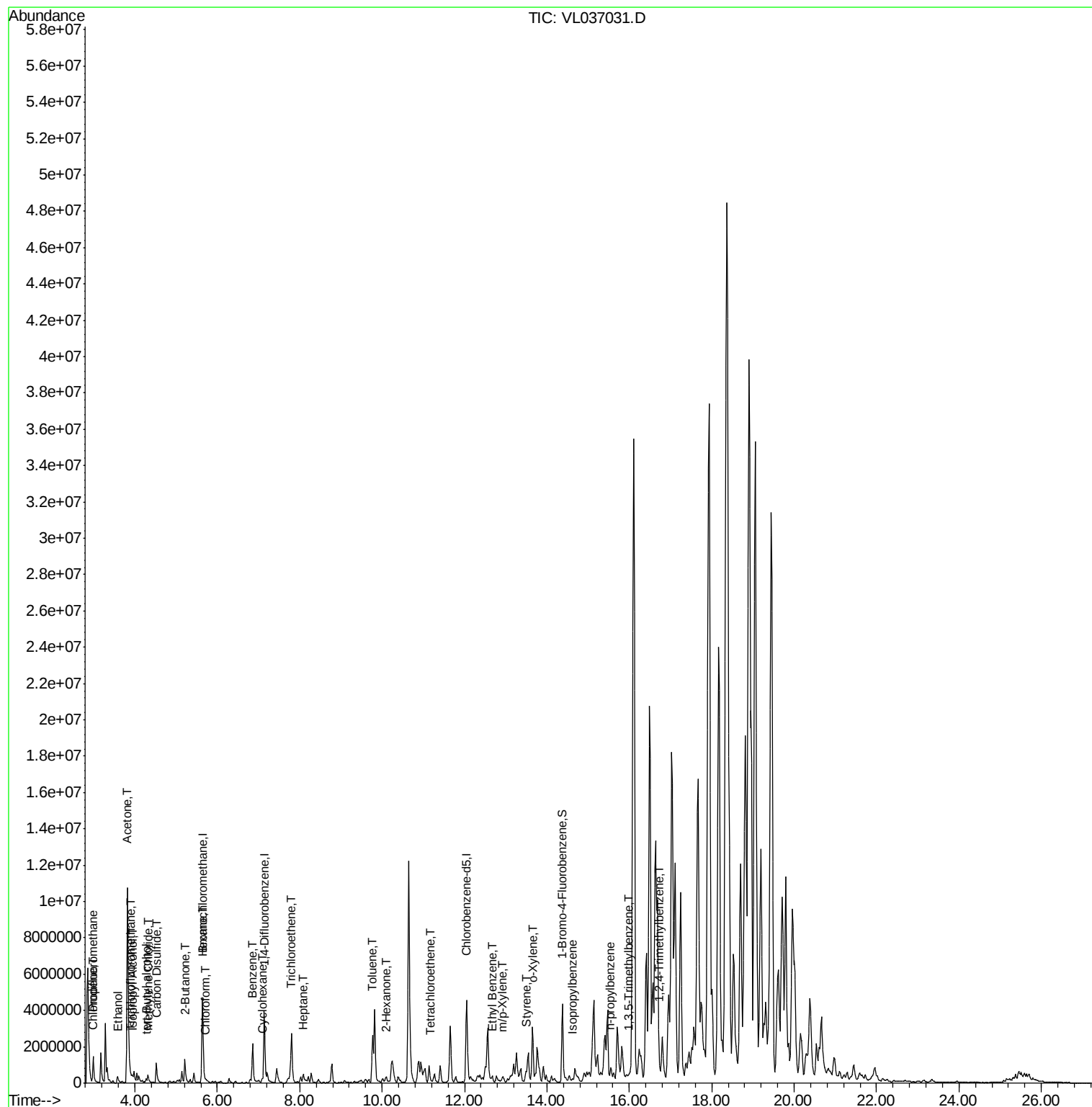
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052021\
Data File : VL037031.D
Acq On : 20 May 2021 19:48
Operator : SY/AP
Sample : M2424-02 2X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

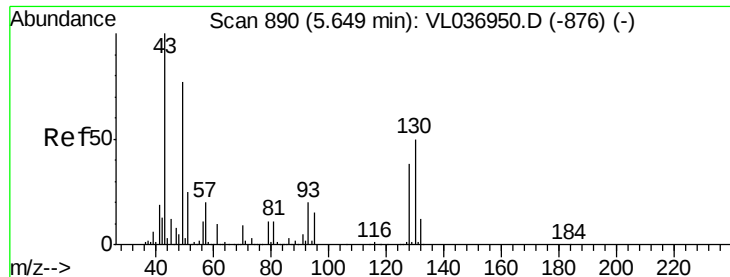
Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Manual Integrations
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Quant Time: May 22 23:04:11 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.01 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

ClientSampled :

KSV-05

Tot Ion: 49 Resp: 1192245

Ion Ratio Lower Upper

49 100

128 53.1 26.9 80.7

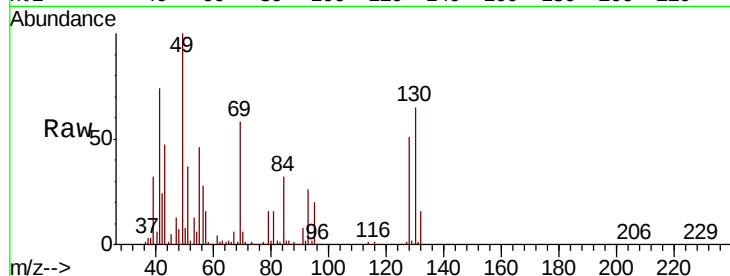
130 68.3 33.8 101.4

Manual Integrations

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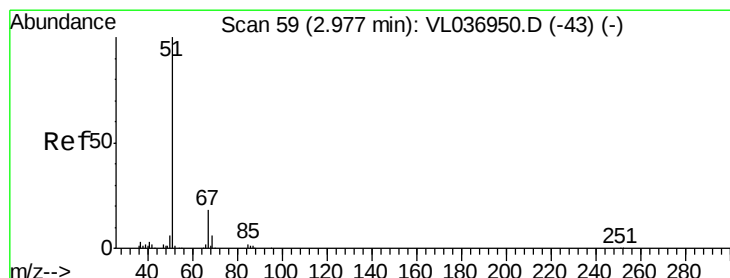
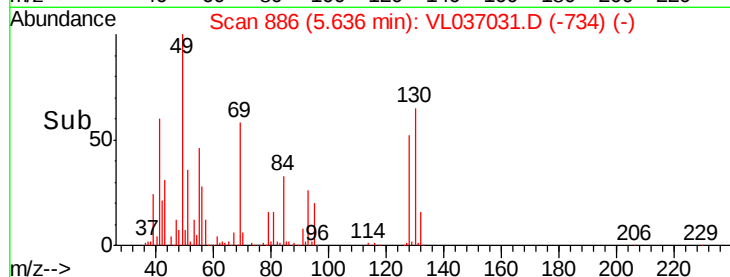
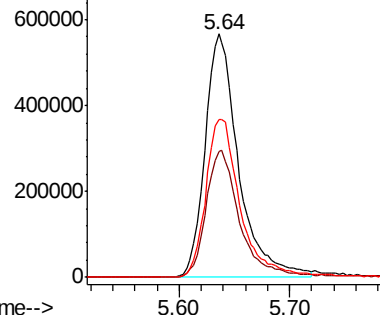
5/24/2021 3:27:11 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.155 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL037031.D

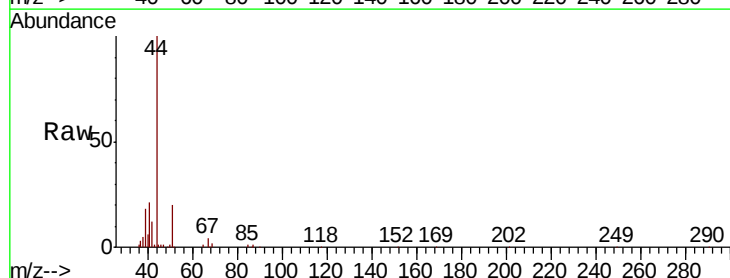
Acq: 20 May 2021 19:48

Tgt Ion: 51 Resp: 33934

Ion Ratio Lower Upper

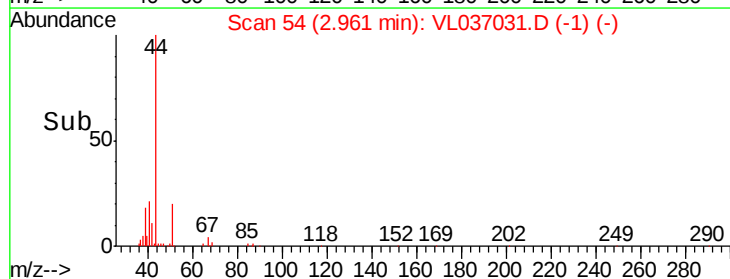
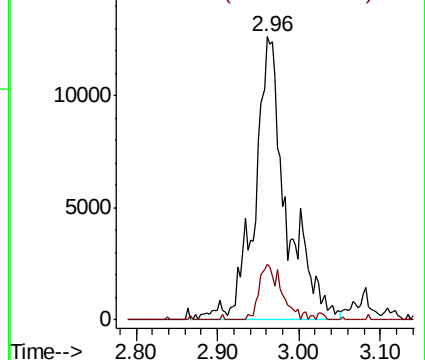
51 100

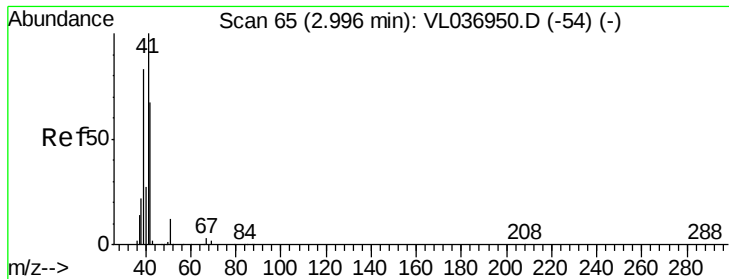
67 13.7 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 9.940 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

Tot Ion: 41 Resp: 777417

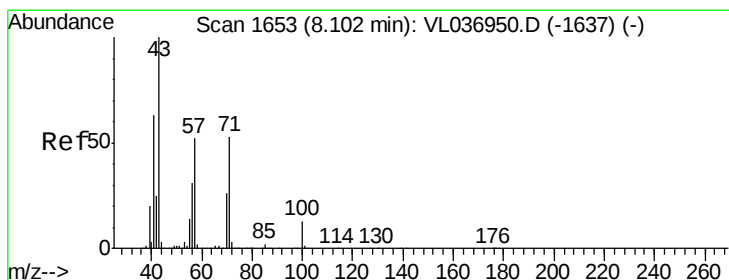
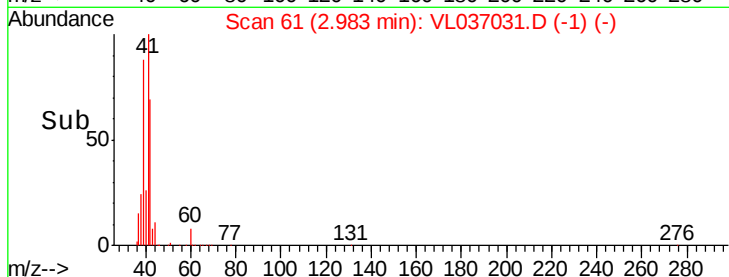
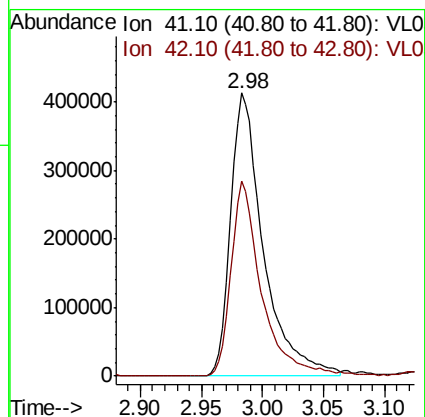
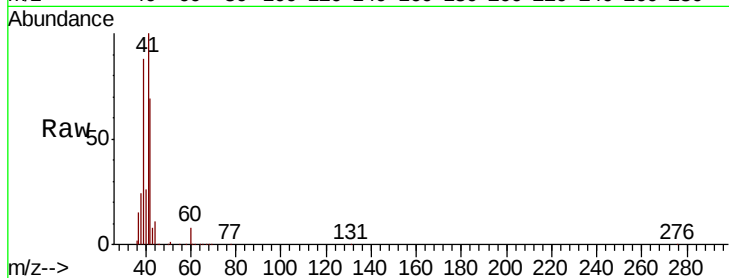
Ion Ratio Lower Upper

41 100

42 64.3 53.9 80.9

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#10

Heptane

Concen: 1.124 ppbv

RT: 8.09 min Scan# 1648

Delta R.T. -0.02 min

Lab File: VL037031.D

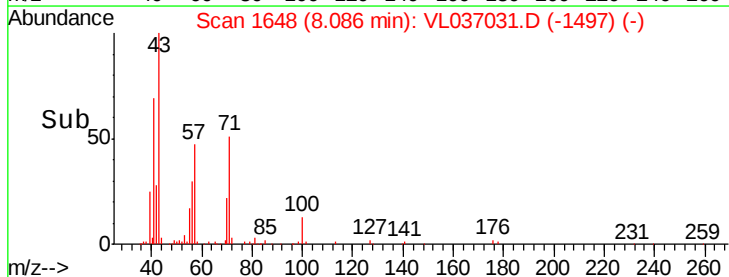
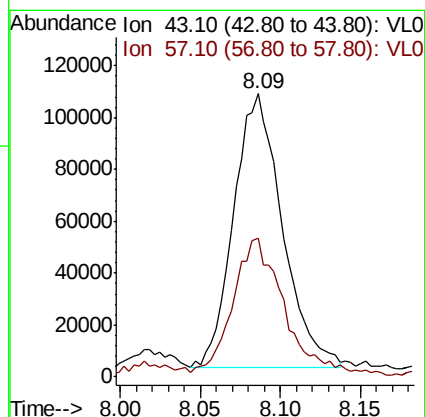
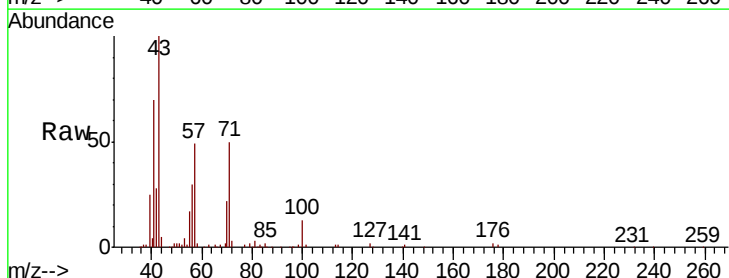
Acq: 20 May 2021 19:48

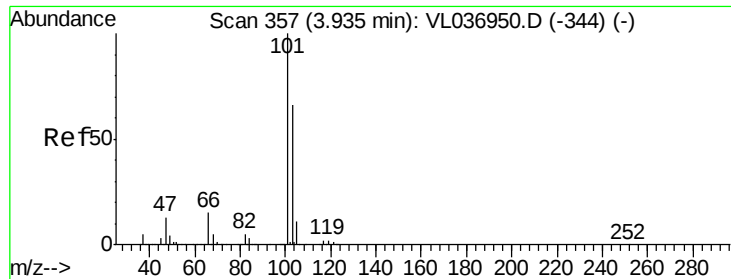
Tgt Ion: 43 Resp: 219068

Ion Ratio Lower Upper

43 100

57 52.9 41.0 61.6





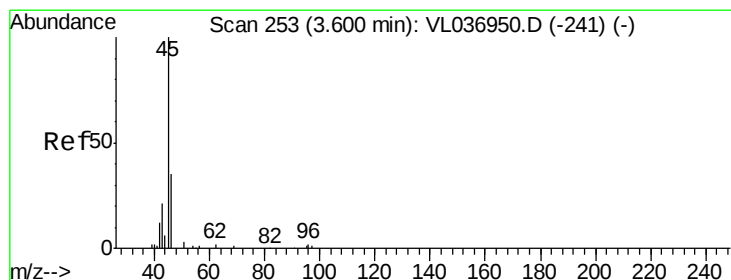
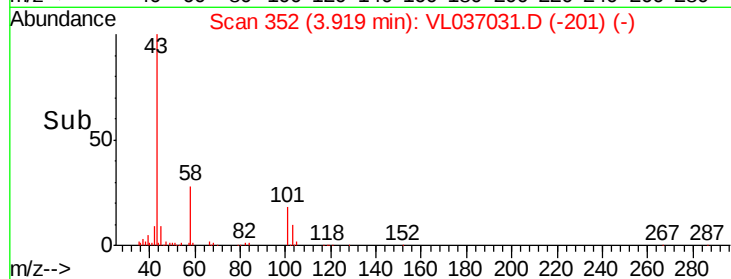
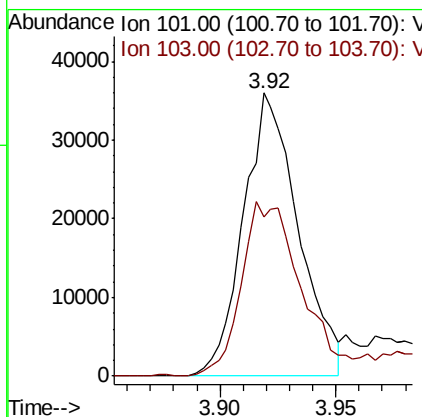
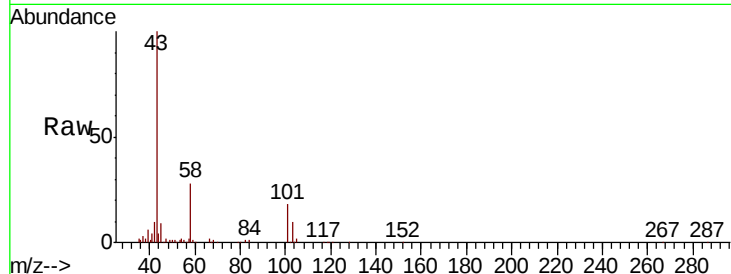
#11
 Trichlorofluoromethane
 Concen: 0.317 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.02 min
 Lab File: VL037031.D
 Acq: 20 May 2021 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		59335		
103	56.2	52.6	79.0		

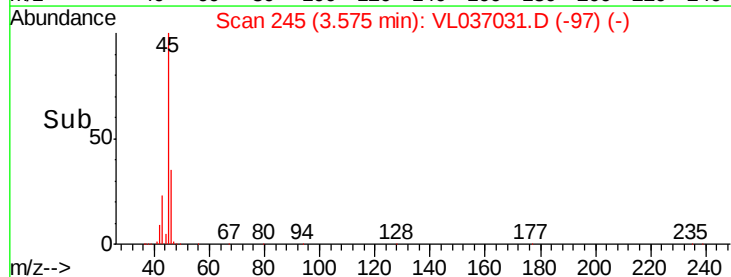
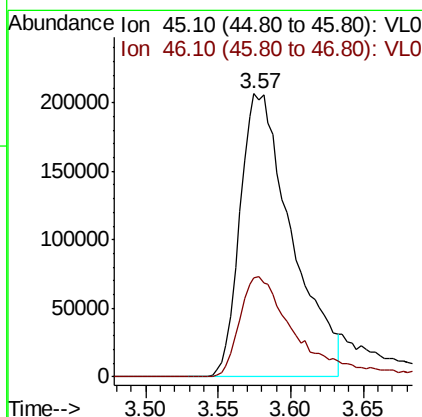
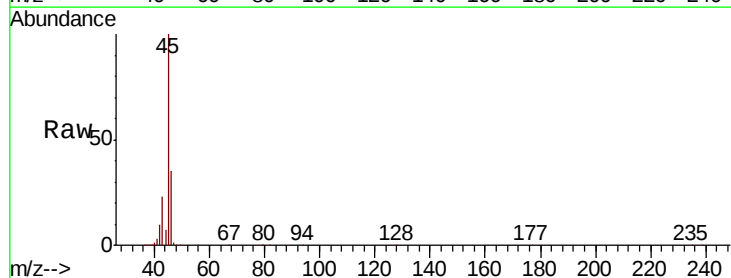
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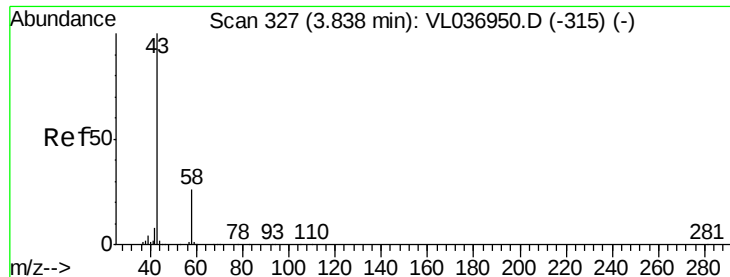
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#13
 Ethanol
 Concen: 49.132 ppbv
 RT: 3.57 min Scan# 245
 Delta R.T. -0.03 min
 Lab File: VL037031.D
 Acq: 20 May 2021 19:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		512721		
46	40.5	16.3	65.3		





#15

Acetone

Concen: 127.185 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.02 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

Tot Ion: 43 Resp:15531531

Ion Ratio Lower Upper

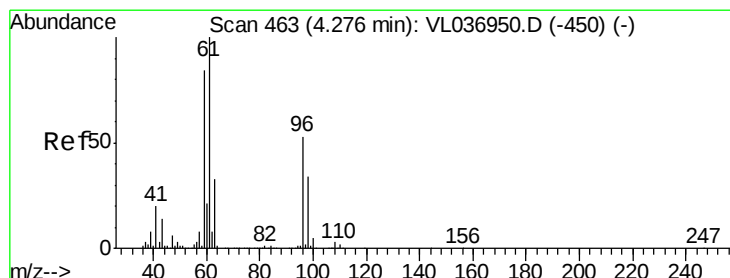
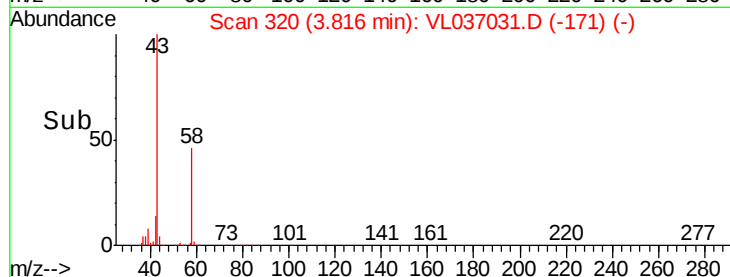
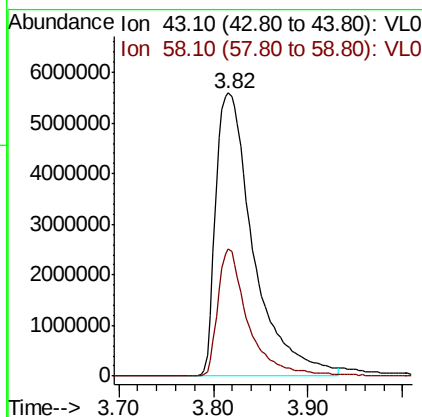
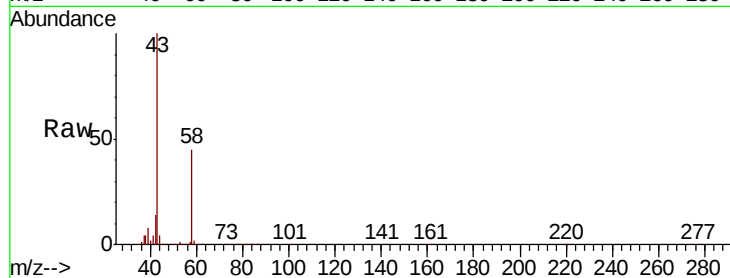
43 100

58 36.7 24.0 36.0#

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#17

tert-Butyl alcohol

Concen: 1.353 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.00 min

Lab File: VL037031.D

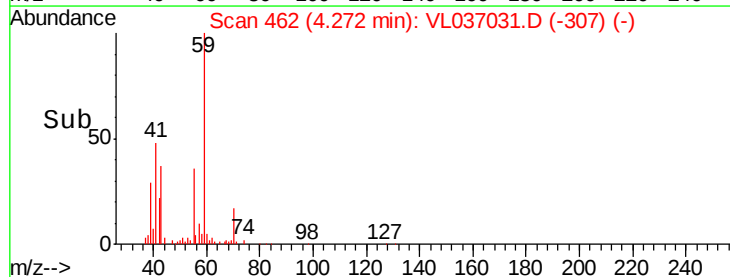
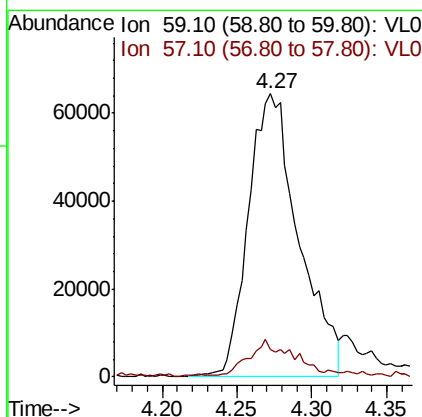
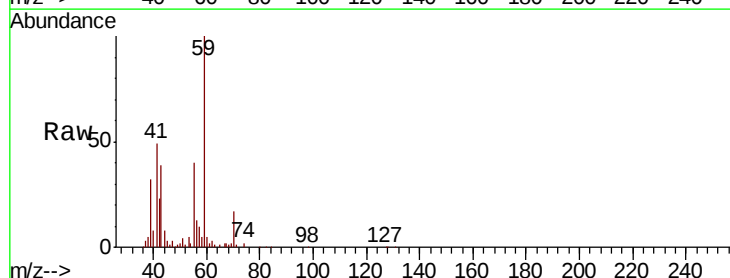
Acq: 20 May 2021 19:48

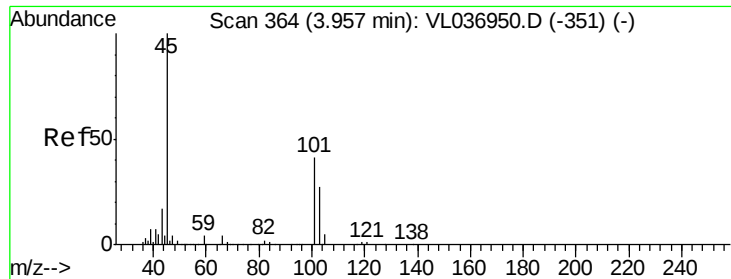
Tgt Ion: 59 Resp: 151332

Ion Ratio Lower Upper

59 100

57 14.3 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 5.053 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.02 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

ClientSampled :

KSV-05

Tot Ion: 45 Resp: 331713

Ion Ratio Lower Upper

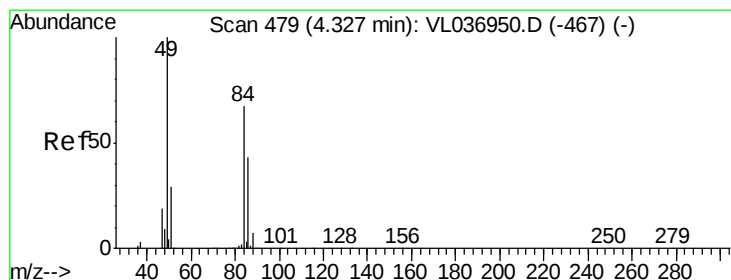
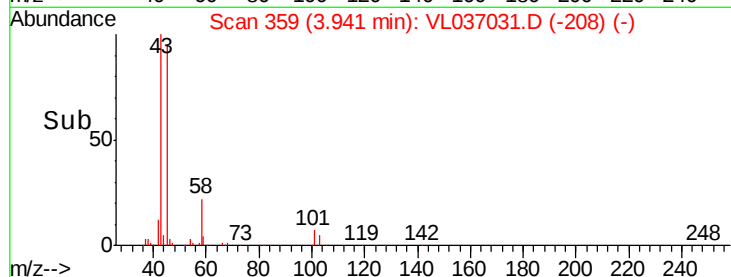
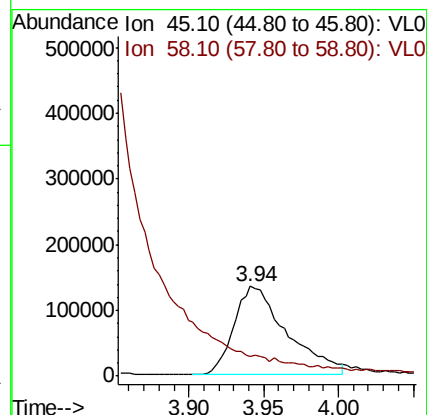
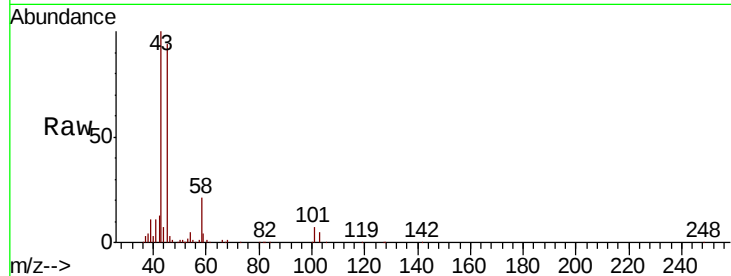
45 100

58 0.0 37.2 55.8#

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#20

Methylene Chloride

Concen: 2.376 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Tgt Ion: 84 Resp: 155508

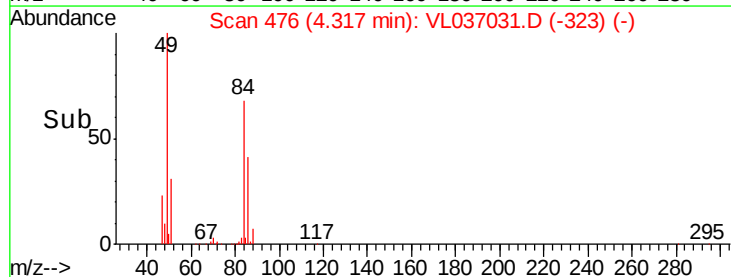
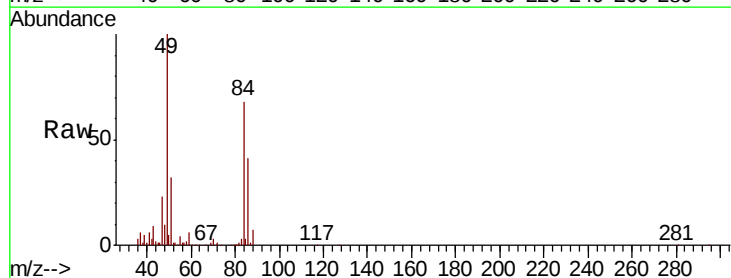
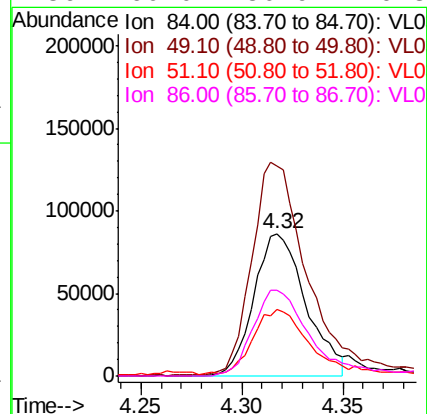
Ion Ratio Lower Upper

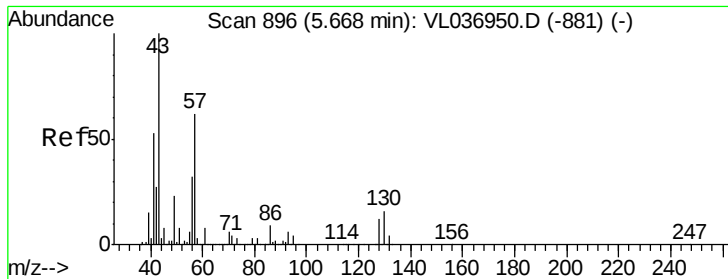
84 100

49 146.6 119.8 179.6

51 43.9 35.1 52.7

86 60.0 50.9 76.3





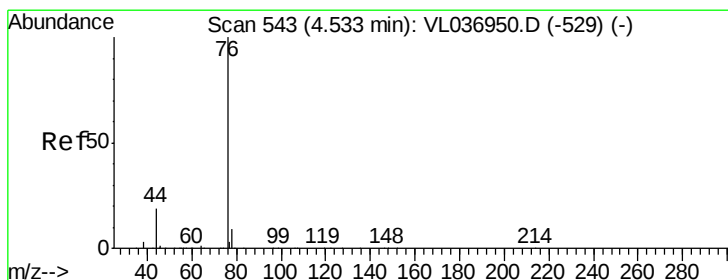
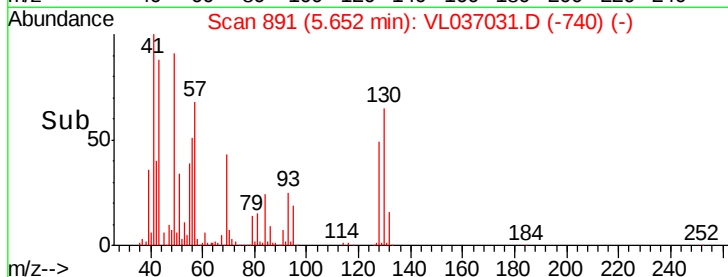
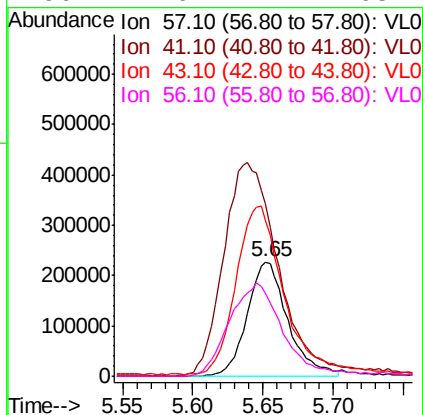
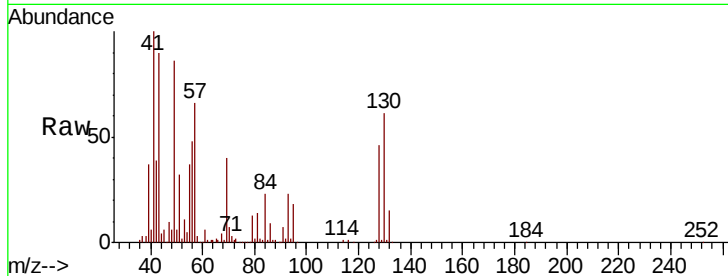
#26
Hexane
Concen: 3.043 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Tot Ion	Ratio	Lower	Upper
57	100		
41	257.7	70.5	105.7#
43	179.6	165.8	248.8
56	111.6	42.2	63.4#

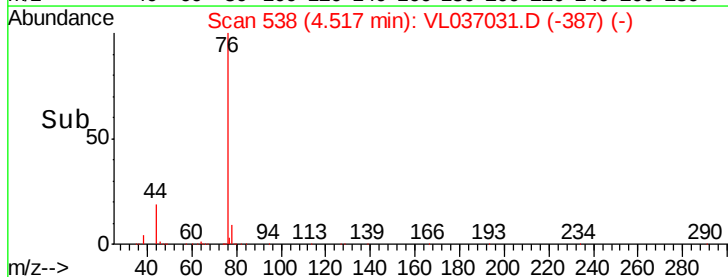
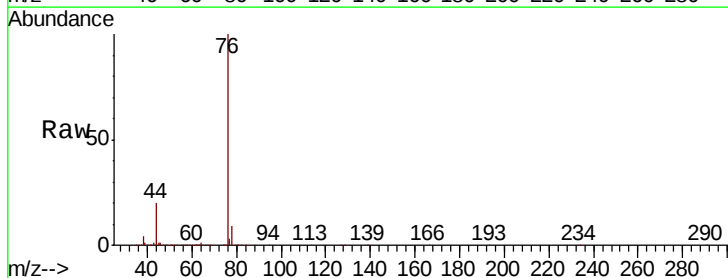
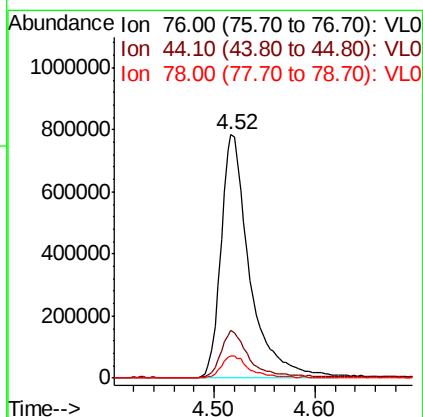
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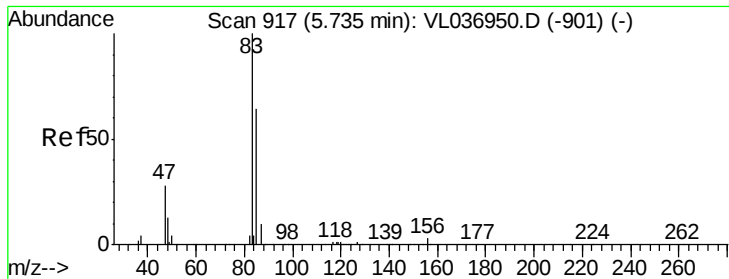
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#27
Carbon Disulfide
Concen: 10.349 ppbv
RT: 4.52 min Scan# 538
Delta R.T. -0.02 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.2	15.5	23.3
78	9.2	7.8	11.6





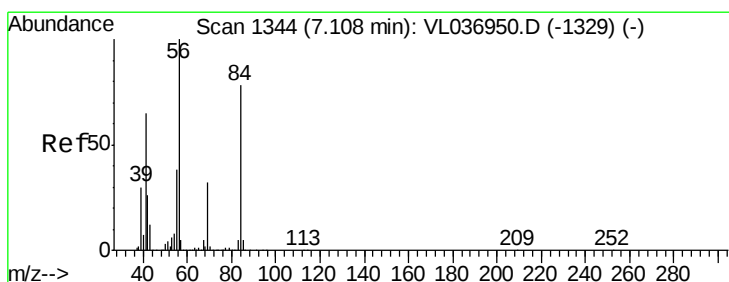
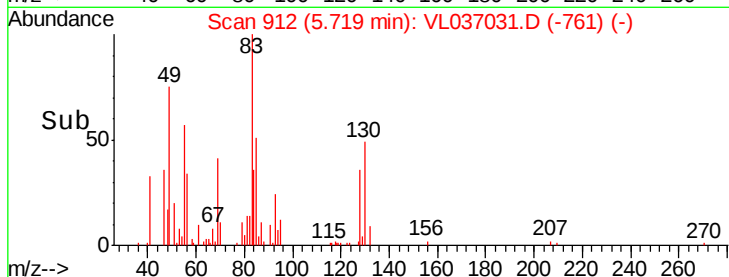
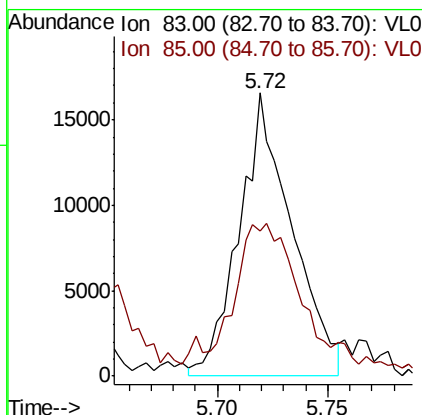
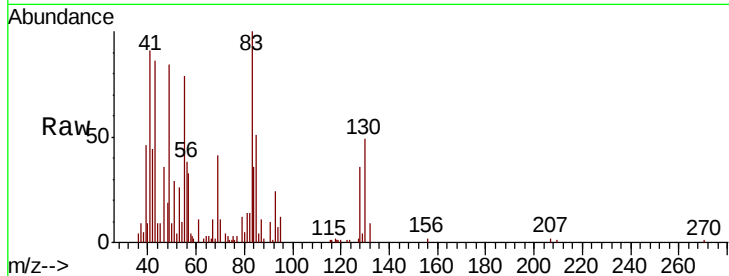
#29
Chloroform
Concen: 0.130 ppbv
RT: 5.72 min Scan# 912
Delta R.T. -0.02 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Tot Ion: 83 Resp: 27509
Ion Ratio Lower Upper
83 100
85 44.8 51.1 76.7#

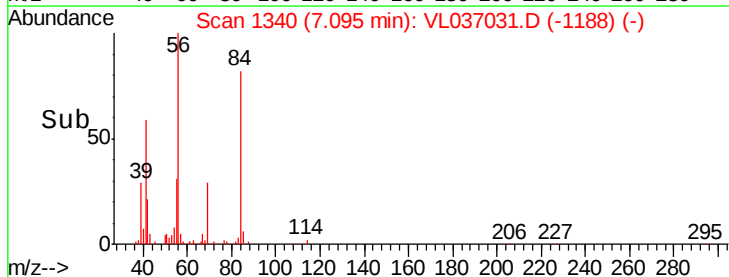
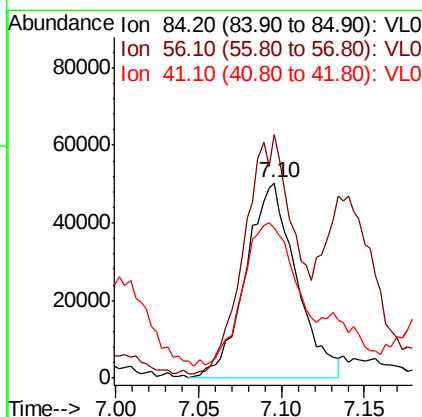
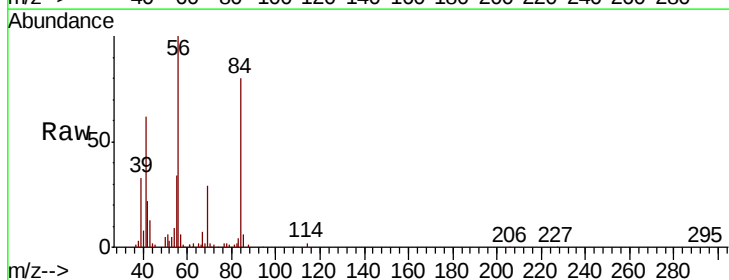
Manual Integrations
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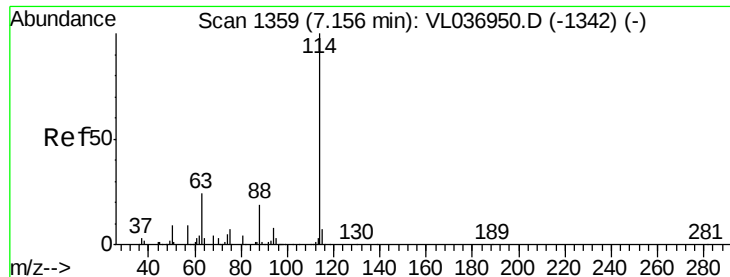
MMDadoda
5/24/2021 3:27:11 PM



#30
Cyclohexane
Concen: 0.827 ppbv
RT: 7.10 min Scan# 1340
Delta R.T. -0.01 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Tgt Ion: 84 Resp: 105325
Ion Ratio Lower Upper
84 100
56 117.9 107.9 161.9
41 109.0 65.5 98.3#





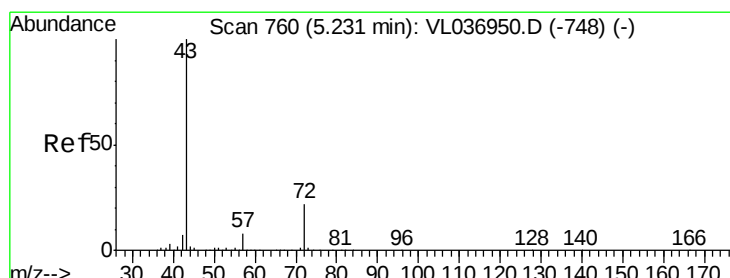
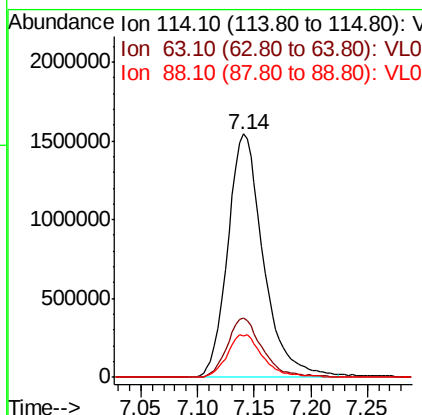
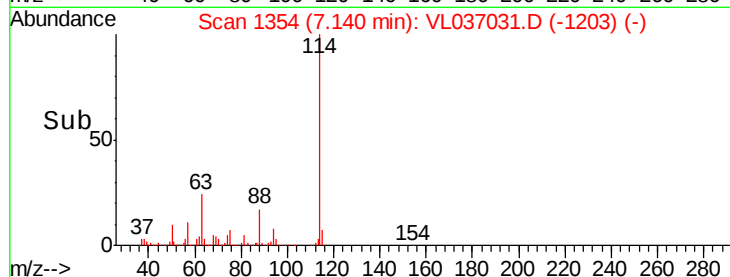
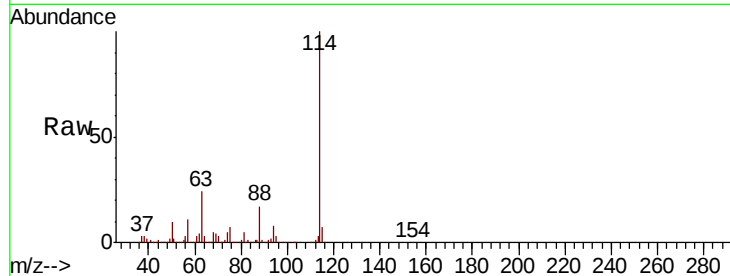
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.02 min
 Lab File: VL037031.D
 Acq: 20 May 2021 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05

Tot Ion:114 Resp: 3385238
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.6 29.4
 88 17.9 14.6 21.8

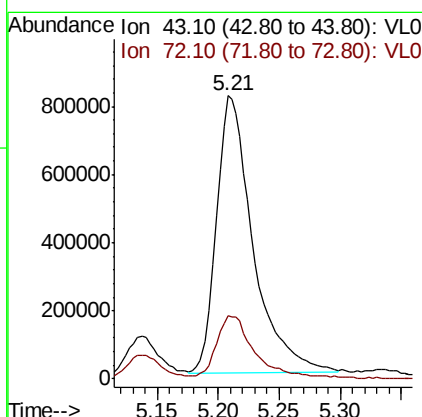
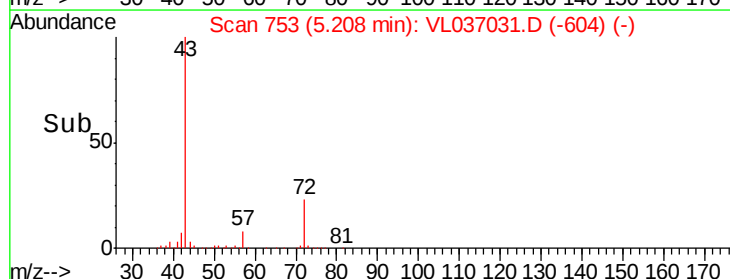
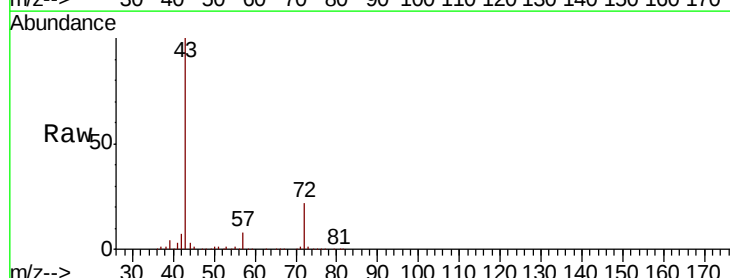
Manual Integrations
 APPROVED

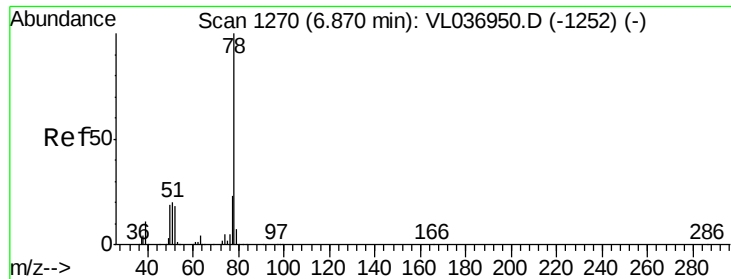
MMDadoda
 5/24/2021 3:27:11 PM



#34
 2-Butanone
 Concen: 13.855 ppbv
 RT: 5.21 min Scan# 753
 Delta R.T. -0.02 min
 Lab File: VL037031.D
 Acq: 20 May 2021 19:48

Tgt Ion: 43 Resp: 1707788
 Ion Ratio Lower Upper
 43 100
 72 24.3 19.0 28.4





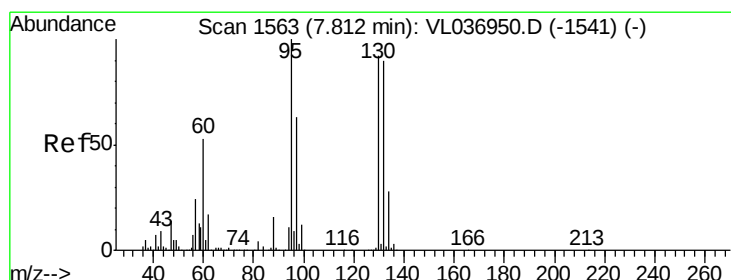
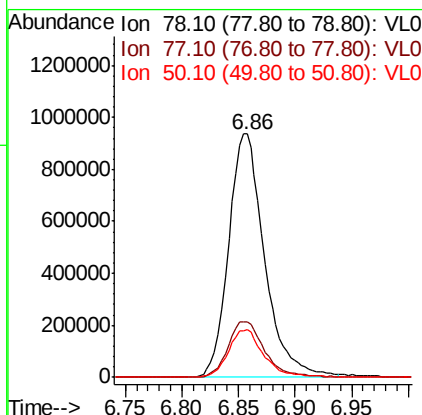
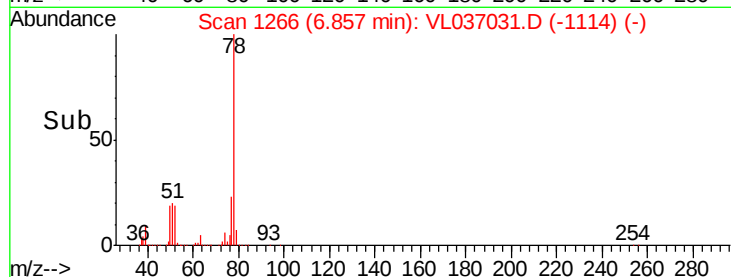
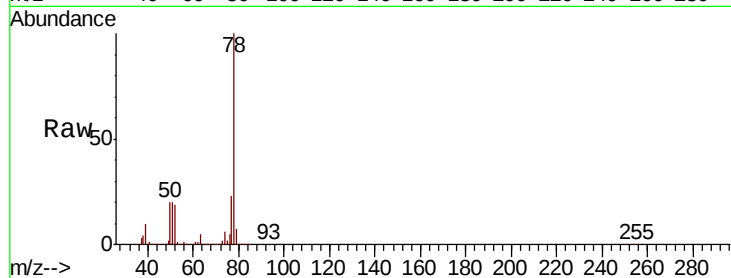
#36
Benzene
Concen: 7.085 ppbv
RT: 6.86 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.6	28.0
50	19.3	15.0	22.4

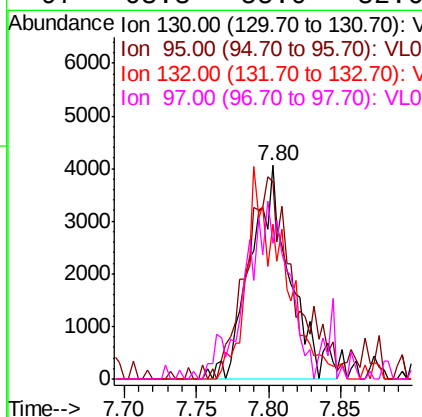
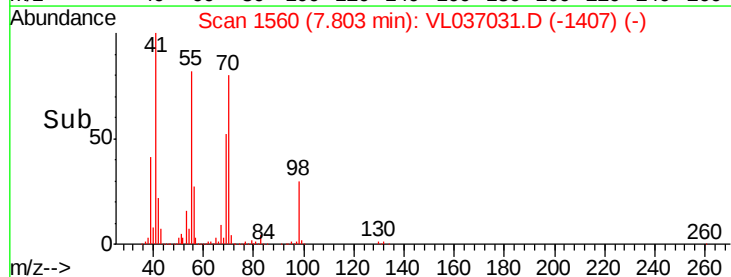
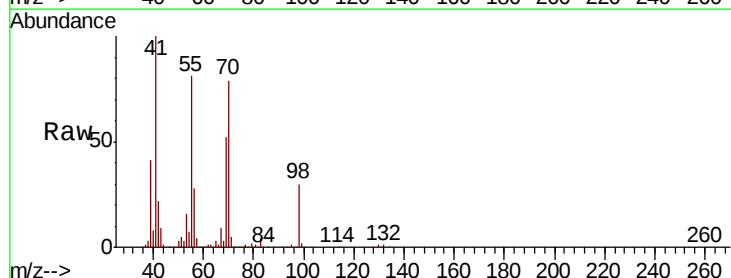
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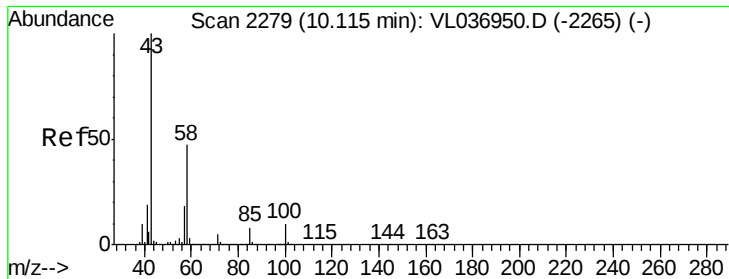
MMDadoda
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#38
Trichloroethene
Concen: 0.062 ppbv m
RT: 7.80 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.3	86.9	130.3
132	72.4	78.4	117.6#
97	63.3	55.0	82.6





#51

2-Hexanone

Concen: 2.702 ppbv

RT: 10.10 min Scan# 2275

Delta R.T. -0.01 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

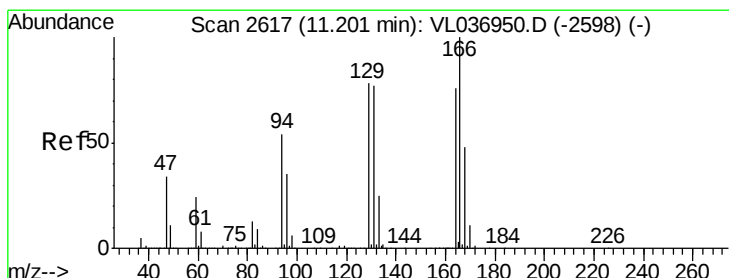
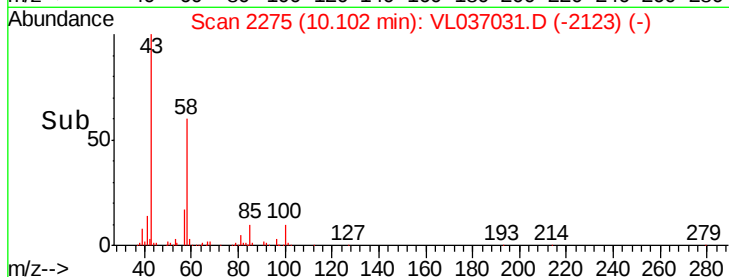
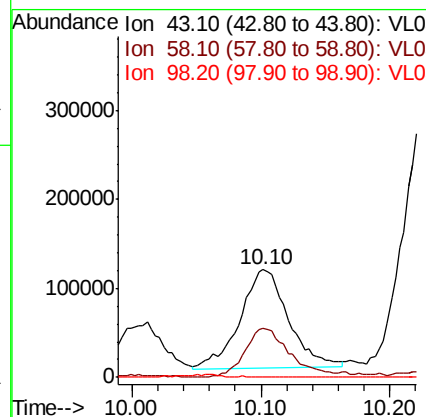
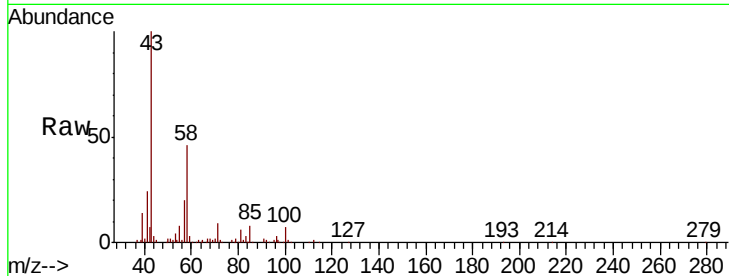
ClientSampleId :

KSV-05

Tot Ion:	43	Resp:	290588
Ion Ratio	Lower	Upper	
43	100		
58	48.1	41.1	61.7
98	0.0	0.1	0.1#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.170 ppbv m

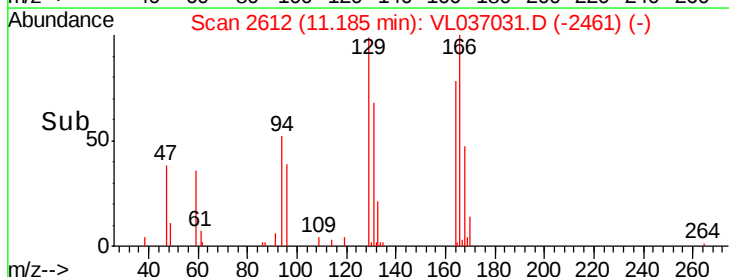
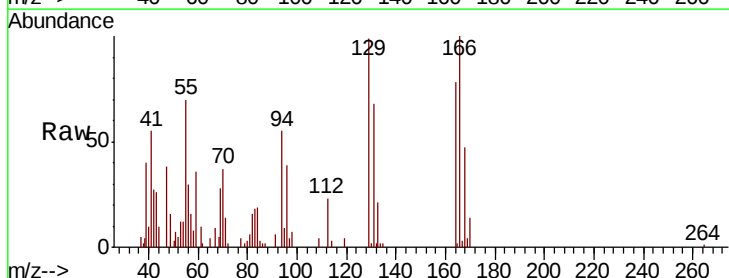
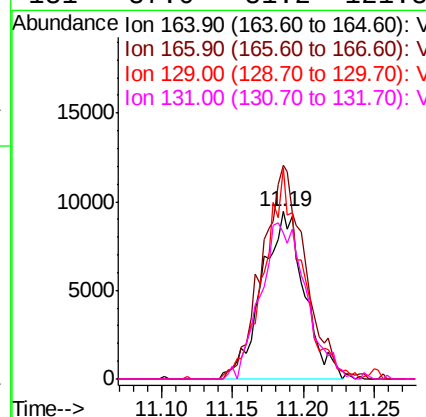
RT: 11.19 min Scan# 2612

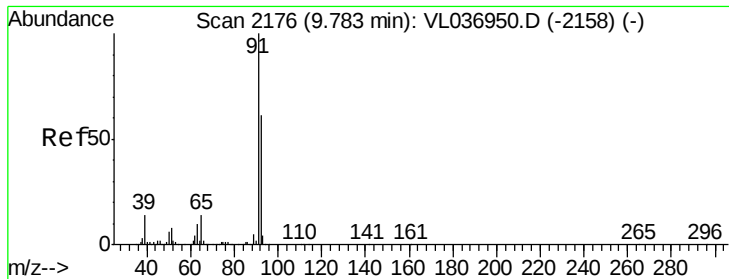
Delta R.T. -0.02 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Tgt Ion:	164	Resp:	19711
Ion Ratio	Lower	Upper	
164	100		
166	127.7	105.5	158.3
129	126.4	81.8	122.8#
131	87.0	81.2	121.8





#53

Toluene

Concen: 6.338 ppbv

RT: 9.77 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

ClientSampled :

KSV-05

Tot Ion: 91 Resp: 2198851

Ion Ratio Lower Upper

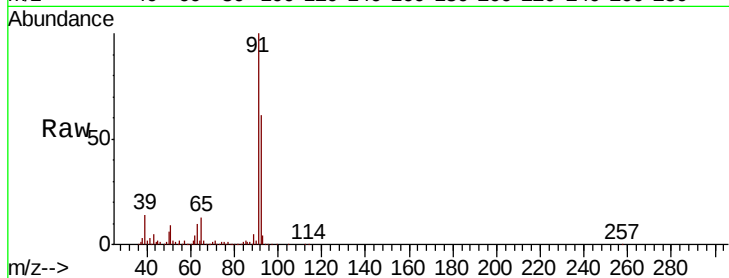
91 100

92 60.9 49.5 74.3

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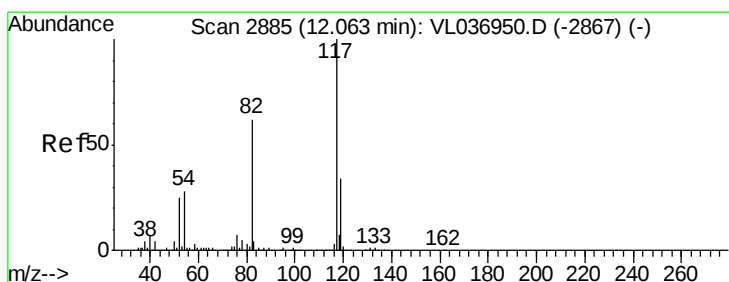
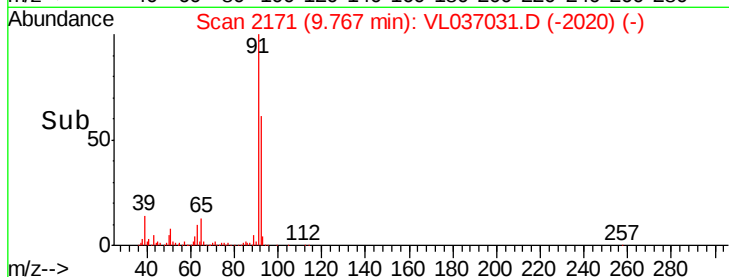
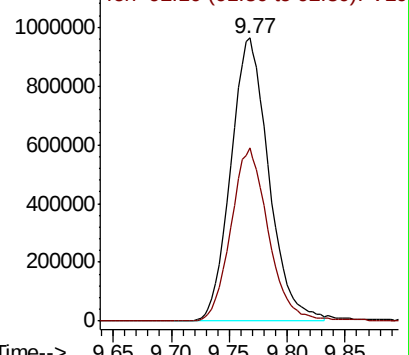
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2880

Delta R.T. -0.02 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

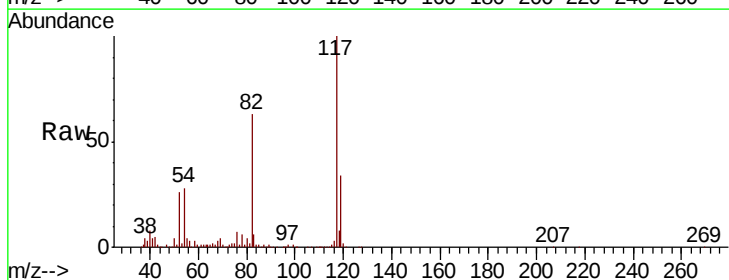
Tgt Ion: 117 Resp: 3078109

Ion Ratio Lower Upper

117 100

82 62.0 52.6 79.0

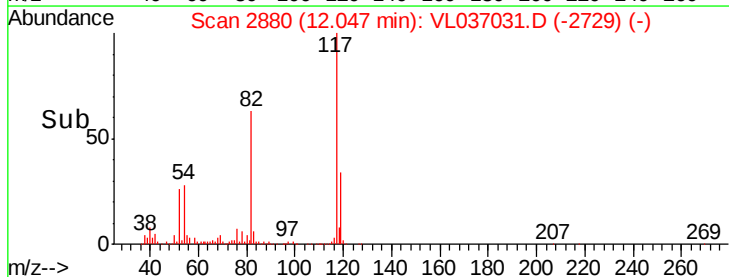
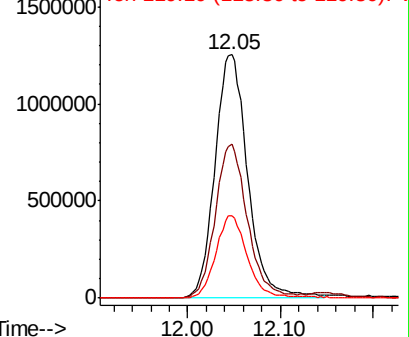
119 33.2 46.6 70.0#

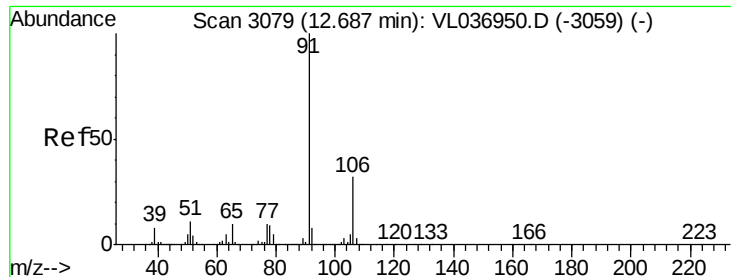


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





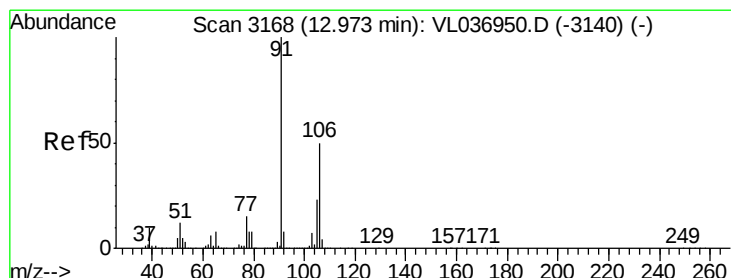
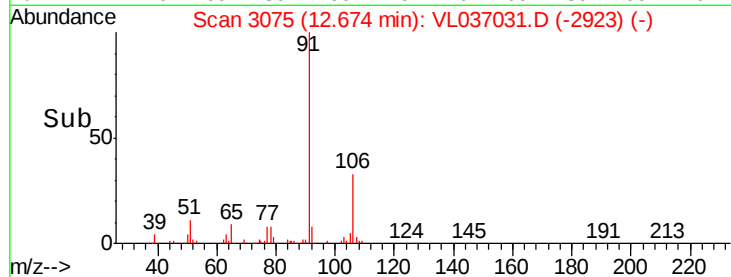
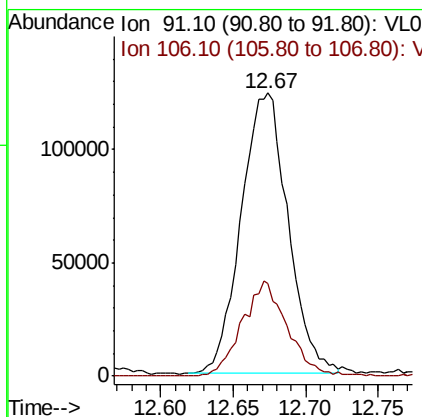
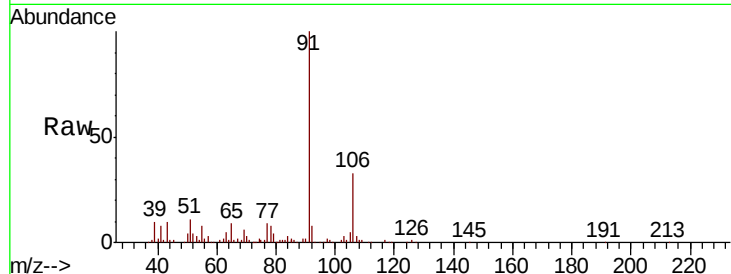
#58
Ethyl Benzene
Concen: 0.641 ppbv
RT: 12.67 min Scan# 3075
Delta R.T. -0.01 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Instrument :
MSVOA_L
ClientSampled :
KSV-05

Tot Ion: 91 Resp: 278557
Ion Ratio Lower Upper
91 100
106 33.0 25.6 38.4

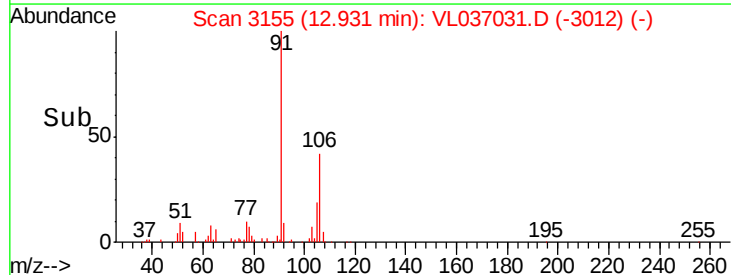
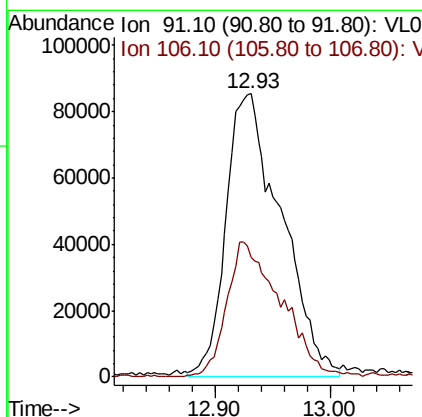
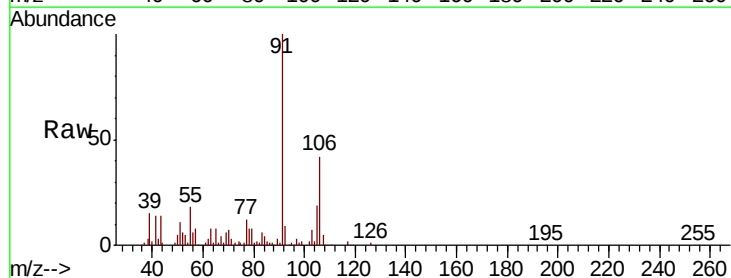
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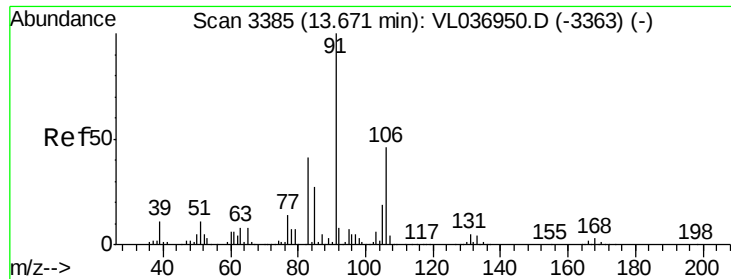
MMDadoda
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#59
m/p-Xylene
Concen: 0.790 ppbv m
RT: 12.93 min Scan# 3155
Delta R.T. -0.04 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Tgt Ion: 91 Resp: 283767
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#





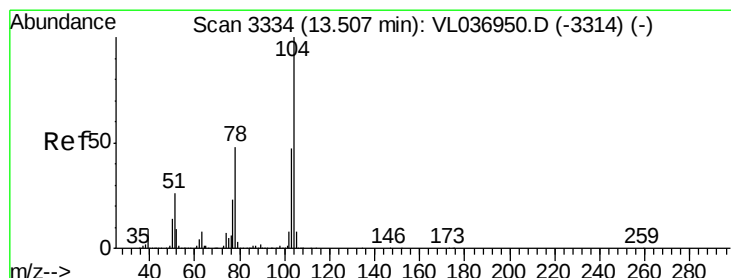
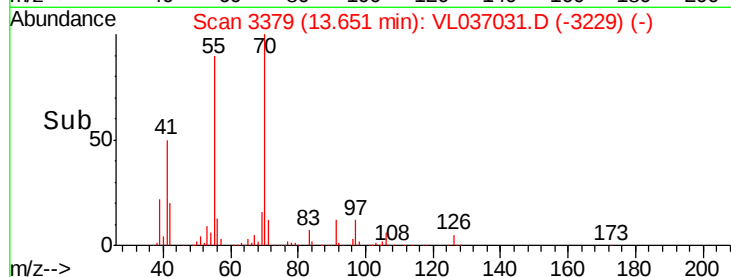
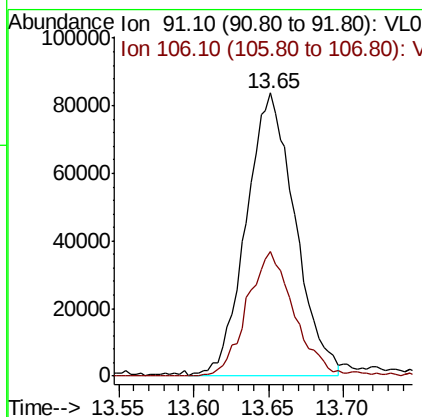
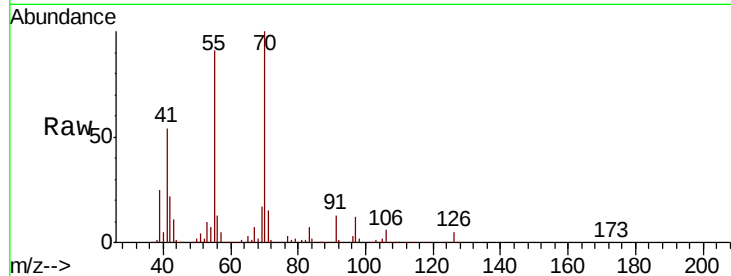
#60
o-Xylene
Concen: 0.552 ppbv
RT: 13.65 min Scan# 3379
Delta R.T. -0.02 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Tot Ion: 91 Resp: 189133
Ion Ratio Lower Upper
91 100
106 43.7 23.4 70.3

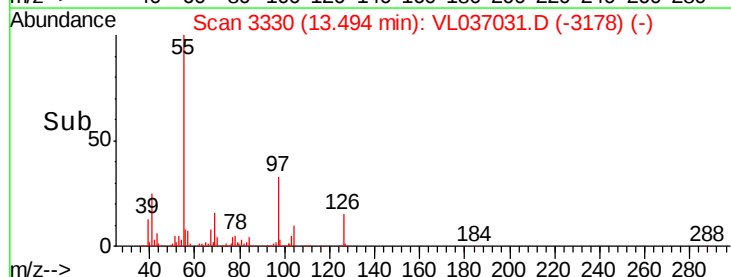
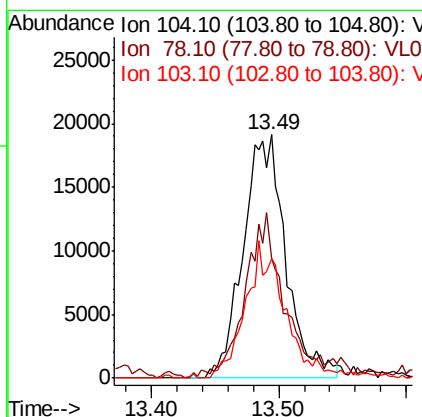
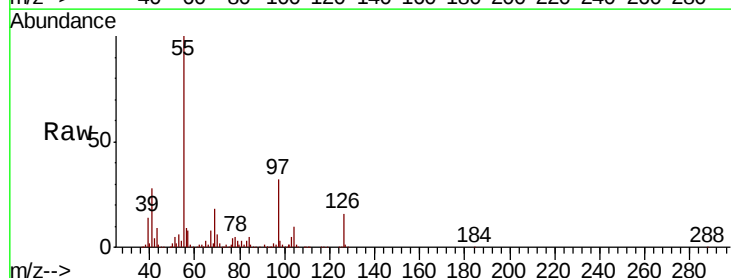
Manual Integrations
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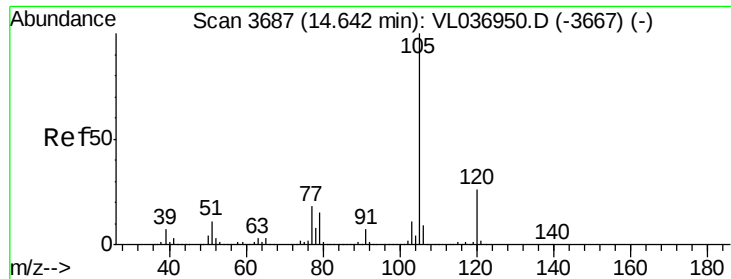
MMDadoda
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#61
Styrene
Concen: 0.229 ppbv m
RT: 13.49 min Scan# 3330
Delta R.T. -0.01 min
Lab File: VL037031.D
Acq: 20 May 2021 19:48

Tgt Ion:104 Resp: 44228
Ion Ratio Lower Upper
104 100
78 67.5 39.0 58.6#
103 0.0 38.0 57.0#





#62

Isopropylbenzene

Concen: 0.181 ppbv

RT: 14.63 min Scan# 3683

Delta R.T. -0.01 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

ClientSampled :

KSV-05

Tot Ion:105 Resp: 89331

Ion Ratio Lower Upper

105 100

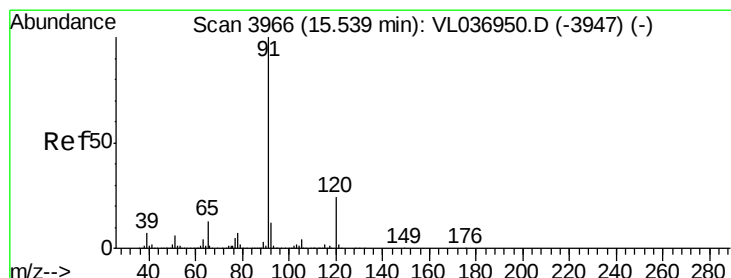
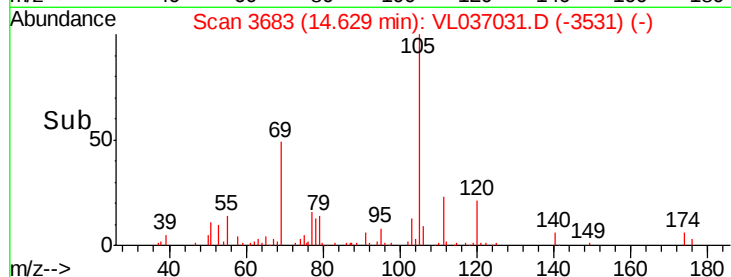
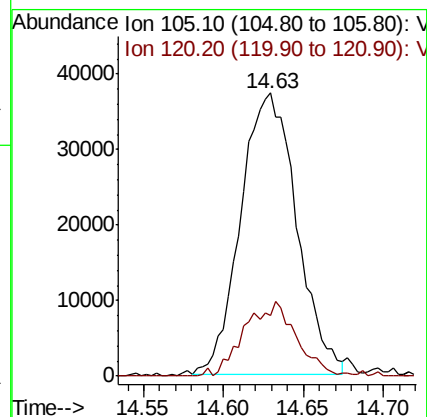
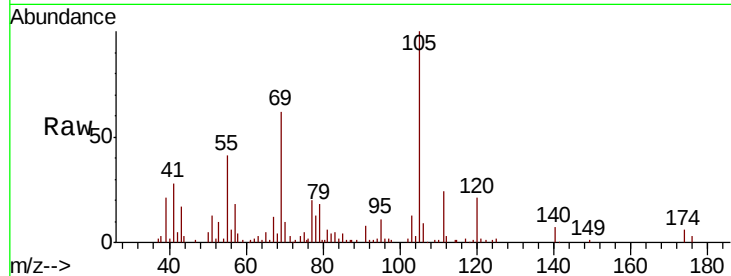
120 25.0 21.7 32.5

Manual Integrations

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#64

n-propylbenzene

Concen: 0.133 ppbv m

RT: 15.52 min Scan# 3960

Delta R.T. -0.02 min

Lab File: VL037031.D

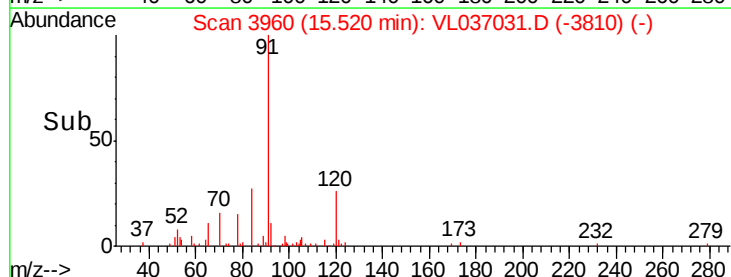
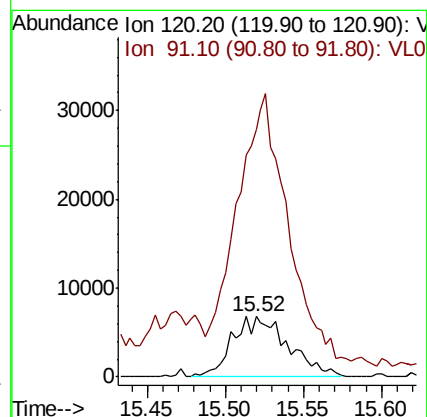
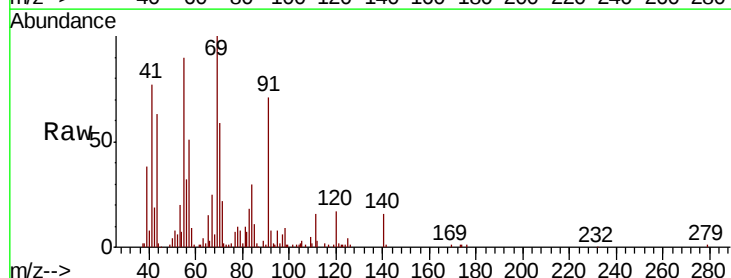
Acq: 20 May 2021 19:48

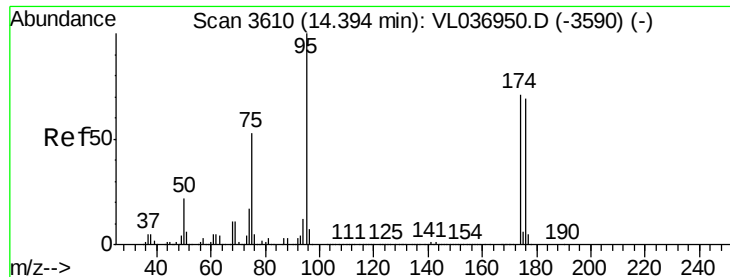
Tgt Ion:120 Resp: 16856

Ion Ratio Lower Upper

120 100

91 0.0 343.8 515.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.788 ppbv

RT: 14.38 min Scan# 3605

Delta R.T. -0.02 min

Lab File: VL037031.D

Acq: 20 May 2021 19:48

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

Tot Ion: 95 Resp: 2263389

Ion Ratio Lower Upper

95 100

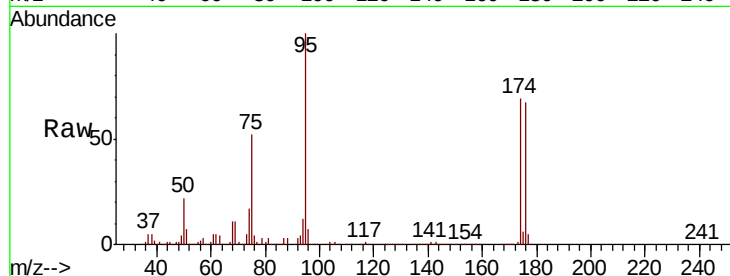
174 74.8 58.4 87.6

175 5.5 4.4 6.6

Manual Integrations
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Abundance Ion 95.10 (94.80 to 95.80): VL036950.D (-3590) (-)

Ion 174.00 (173.70 to 174.70): VL036950.D (-3590) (-)

Ion 175.00 (174.70 to 175.70): VL036950.D (-3590) (-)

1200000

1000000

800000

600000

400000

200000

0

14.30

14.40

14.50

14.60

14.70

14.80

14.90

15.00

15.10

15.20

15.30

15.40

15.50

15.60

15.70

15.80

15.90

16.00

16.10

16.20

16.30

16.40

16.50

16.60

16.70

16.80

16.90

17.00

17.10

17.20

17.30

17.40

17.50

17.60

17.70

17.80

17.90

18.00

18.10

18.20

18.30

18.40

18.50

18.60

18.70

18.80

18.90

19.00

19.10

19.20

19.30

19.40

19.50

19.60

19.70

19.80

19.90

20.00

20.10

20.20

20.30

20.40

20.50

20.60

20.70

20.80

20.90

21.00

21.10

21.20

21.30

21.40

21.50

21.60

21.70

21.80

21.90

22.00

22.10

22.20

22.30

22.40

22.50

22.60

22.70

22.80

22.90

23.00

23.10

23.20

23.30

23.40

23.50

23.60

23.70

23.80

23.90

24.00

24.10

24.20

24.30

24.40

24.50

24.60

24.70

24.80

24.90

25.00

25.10

25.20

25.30

25.40

25.50

25.60

25.70

25.80

25.90

26.00

26.10

26.20

26.30

26.40

26.50

26.60

26.70

26.80

26.90

27.00

27.10

27.20

27.30

27.40

27.50

27.60

27.70

27.80

27.90

28.00

28.10

28.20

28.30

28.40

28.50

28.60

28.70

28.80

28.90

29.00

29.10

29.20

29.30

29.40

29.50

29.60

29.70

29.80

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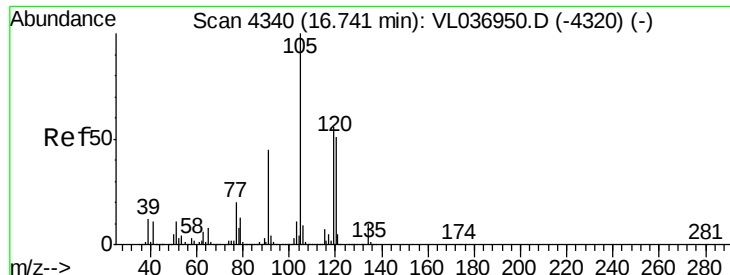
38.50

38.60

38.70

38.80

38.90



#74
 1,2,4-Trimethylbenzene
 Concen: 0.606 ppbv
 RT: 16.73 min Scan# 4336
 Delta R.T. -0.01 min
 Lab File: VL037031.D
 Acq: 20 May 2021 19:48

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-05

Tot Ion	Ion	Ratio	Resp Lower	Upper
105	105	100		
120	120	43.4	40.6	61.0
91	91	9.9	37.4	56.0#
77	77	11.1	16.2	24.4#

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:27:11 PM

