

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040721\
 Data File : VL036733.D
 Acq On : 7 Apr 2021 19:24
 Operator : SY/AP
 Sample : M1929-03
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV-03-X

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:16:03 AM

Quant Time: Apr 10 22:52:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 08 2021
 QLast Update : Thu Apr 08 01:58:43 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1245363	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3161894	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2664904	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2050282	9.65	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	29007	0.143	ppbv	93
3) Chlorodifluoromethane	2.98	51	34975m	0.150	ppbv	
4) Chloromethane	3.13	50	10970	0.133	ppbv #	86
5) Vinyl Chloride	3.26	62	4442m	0.053	ppbv	
7) Chloroethane	3.56	64	9571m	0.330	ppbv	
9) Propene	3.01	41	58302m	0.786	ppbv	
10) Heptane	8.12	43	28662m	0.152	ppbv	
11) Trichlorofluoromethane	3.95	101	72892	0.352	ppbv	98
13) Ethanol	3.61	45	66950	7.579	ppbv	91
15) Acetone	3.85	43	1528799	12.473	ppbv	98
19) Isopropyl Alcohol	3.99	45	63263	0.938	ppbv #	89
20) Methylene Chloride	4.35	84	88775m	1.547	ppbv	
24) 1,1-Dichloroethane	5.01	63	34789	0.228	ppbv	98
26) Hexane	5.69	57	117056	0.866	ppbv #	49
27) Carbon Disulfide	4.56	76	78641m	0.590	ppbv	
29) Chloroform	5.75	83	41505m	0.192	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	33385m	0.153	ppbv	
34) 2-Butanone	5.25	43	227010	1.471	ppbv #	90
36) Benzene	6.89	78	104713	0.359	ppbv #	78
37) 1,2-Dichloroethane	6.31	62	73757	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	30167m	0.135	ppbv	
52) Tetrachloroethene	11.23	164	754893	7.030	ppbv	98
53) Toluene	9.81	91	837443	2.697	ppbv	100
59) m/p-Xylene	12.98	91	38086m	0.113	ppbv	

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

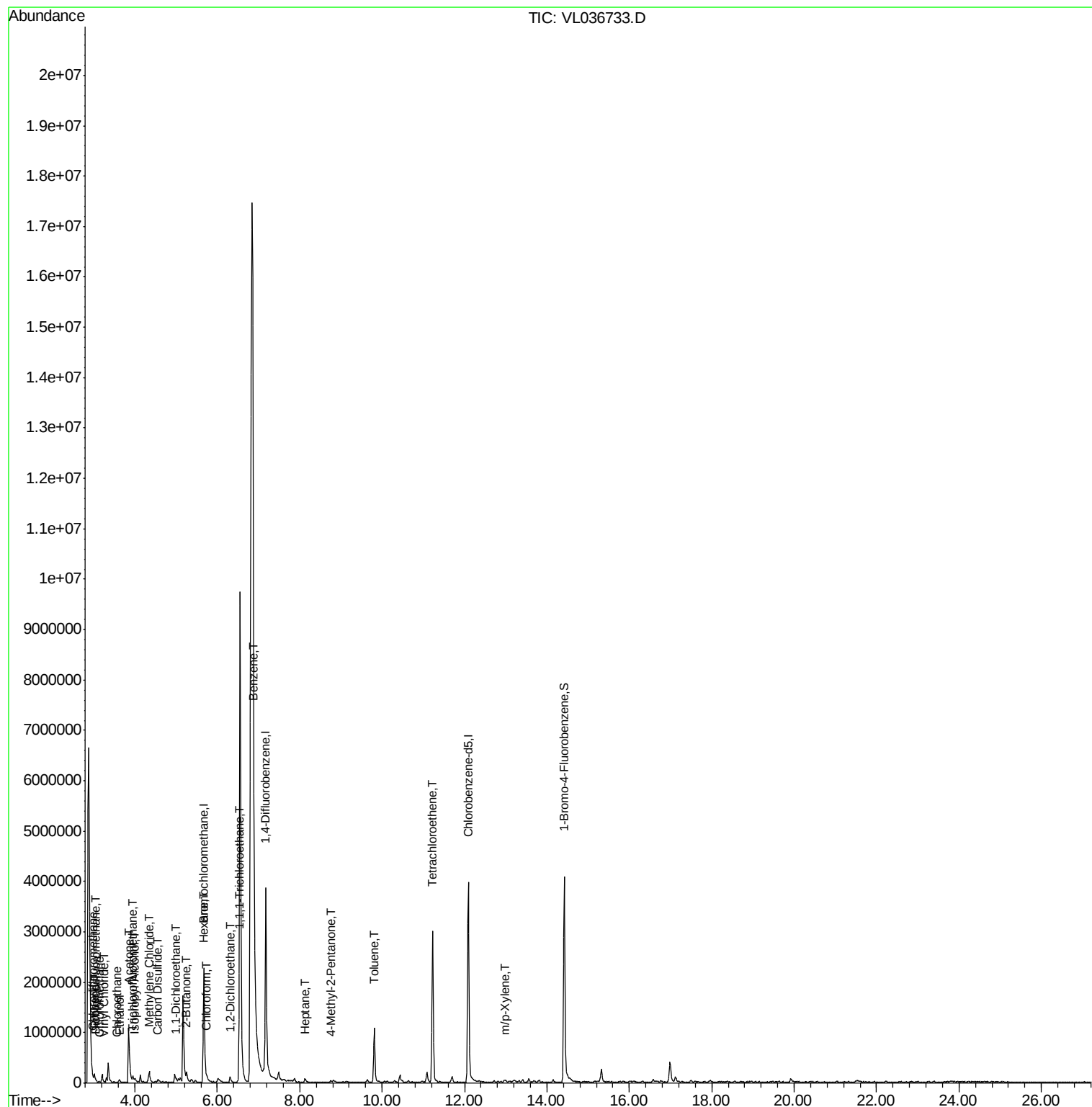
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040721\
Data File : VL036733.D
Acq On : 7 Apr 2021 19:24
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 7 Sample Multiplier: 1

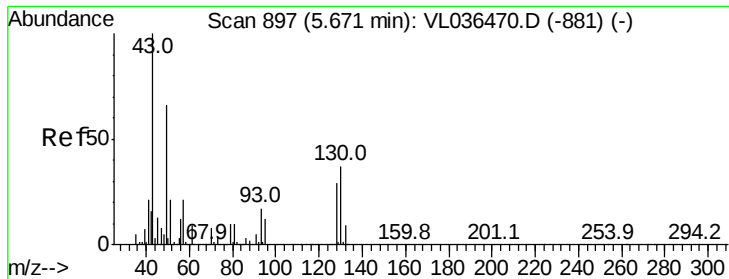
Instrument :
MSVOA_L
ClientSampleId :
FS-SV-03-X

Manual Integrations
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Quant Time: Apr 10 22:52:29 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr
QLast Update : Thu Apr 08 01:58:43 2021
Response via : Initial Calibration





#1

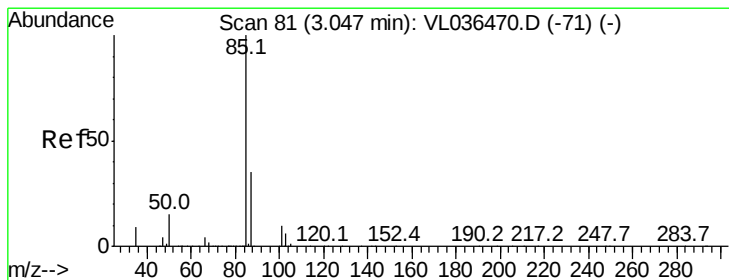
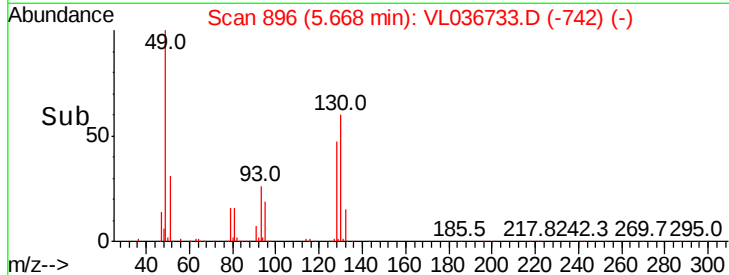
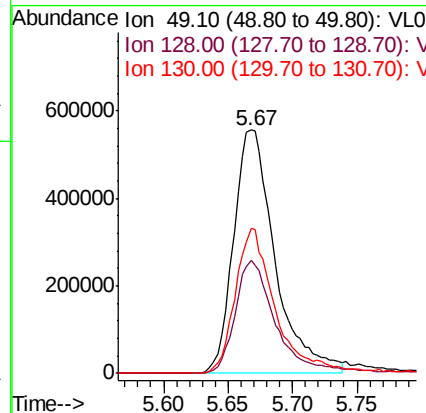
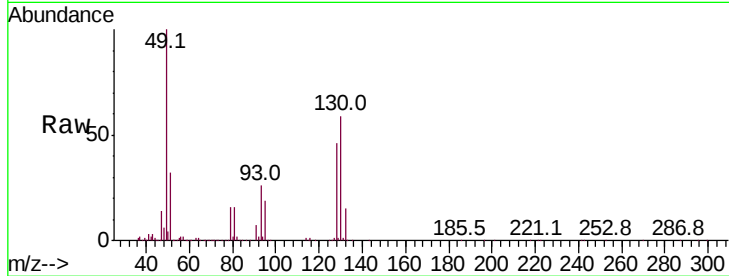
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
FS-SV-03-X

Tot Ion: 49 Resp: 1245363
Ion Ratio Lower Upper
49 100
128 46.7 23.5 70.6
130 59.2 29.1 87.4

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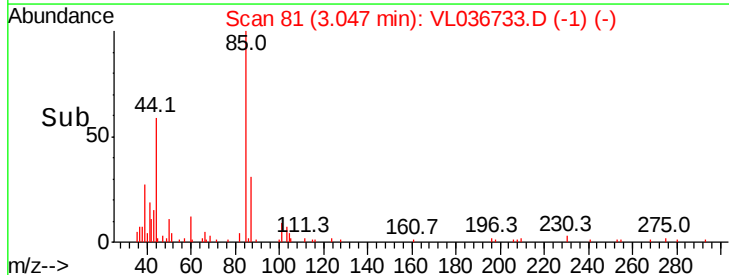
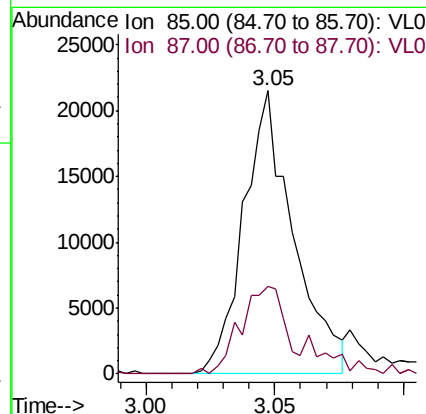
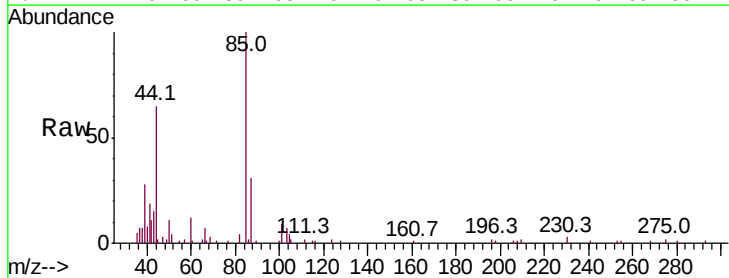
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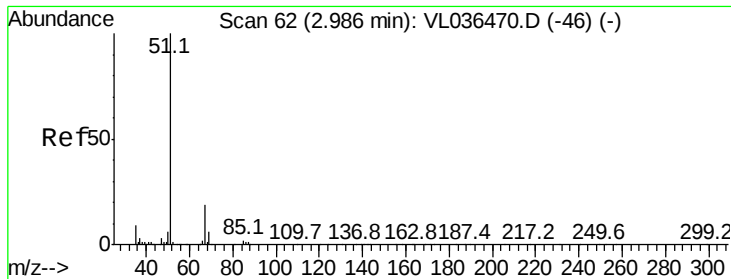


#2

Dichlorodifluoromethane
Concen: 0.143 ppbv
RT: 3.05 min Scan# 81
Delta R.T. -0.00 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Tgt Ion: 85 Resp: 29007
Ion Ratio Lower Upper
85 100
87 30.9 27.8 41.8





#3

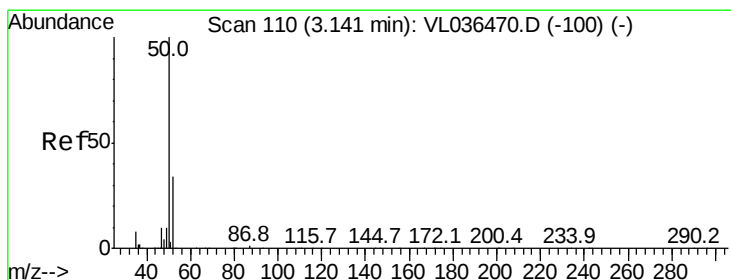
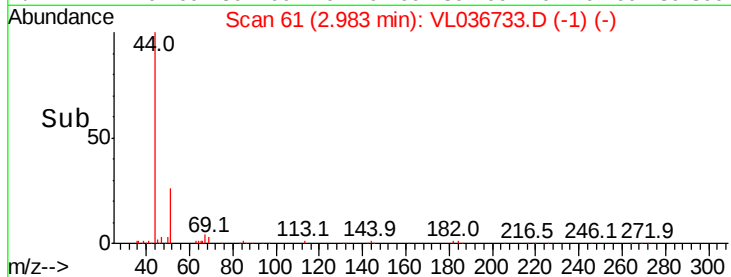
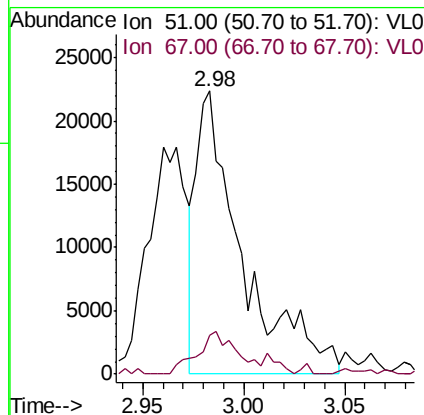
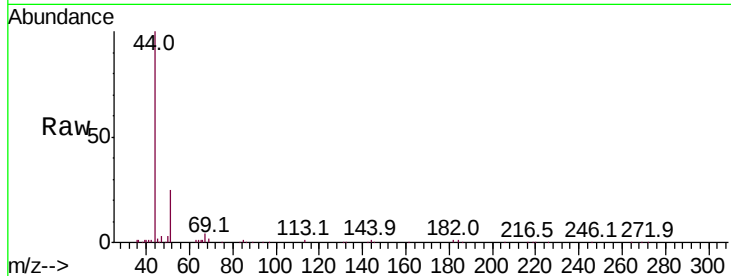
Chlorodifluoromethane
 Concen: 0.150 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. -0.00 min
 Lab File: VL036733.D
 Acq: 7 Apr 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV-03-X

Tot Ion	Ratio	Lower	Upper
51	100		
67	17.7	14.7	22.1

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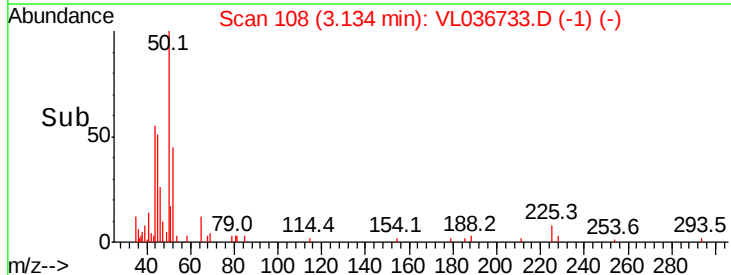
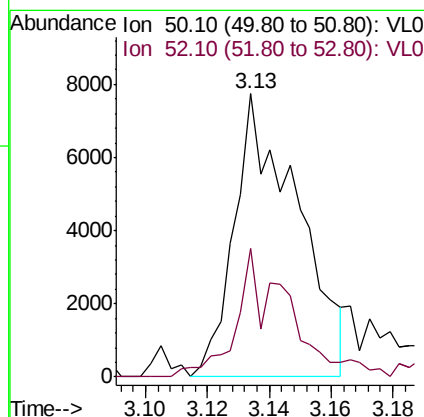
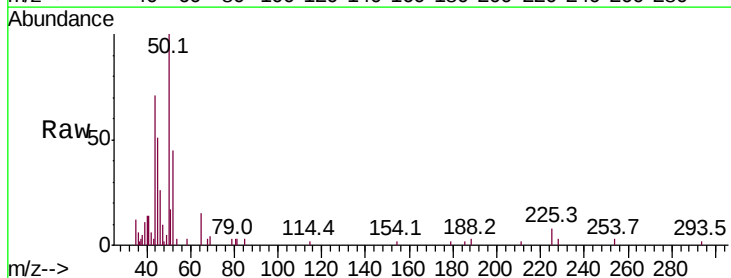
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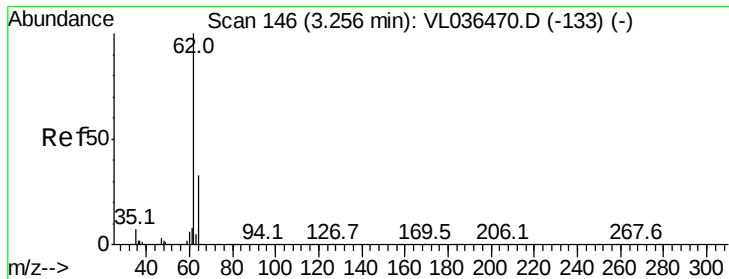


#4

Chloromethane
 Concen: 0.133 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.01 min
 Lab File: VL036733.D
 Acq: 7 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
50	100		
52	41.8	27.0	40.6





#5

Vinyl Chloride

Concen: 0.053 ppbv m

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

FS-SV-03-X

Tot Ion: 62 Resp: 4442

Ion Ratio Lower Upper

62 100

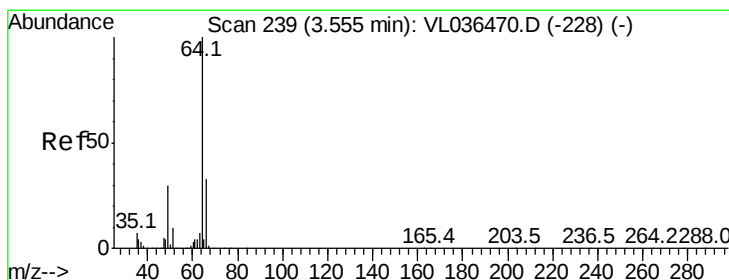
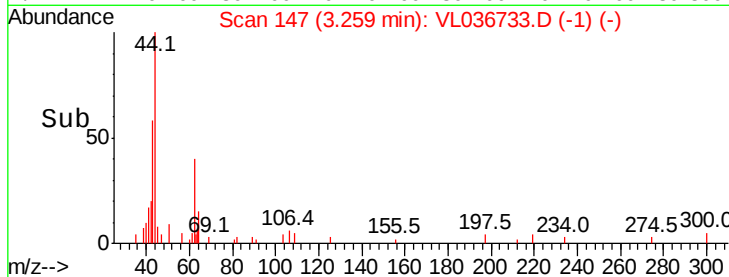
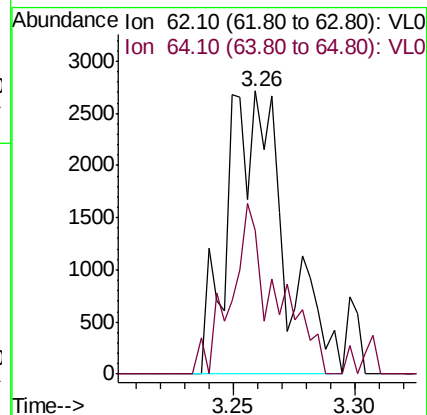
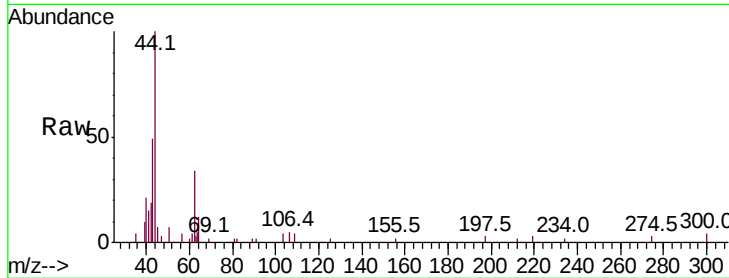
64 36.3 26.4 39.6

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#7

Chloroethane

Concen: 0.330 ppbv m

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL036733.D

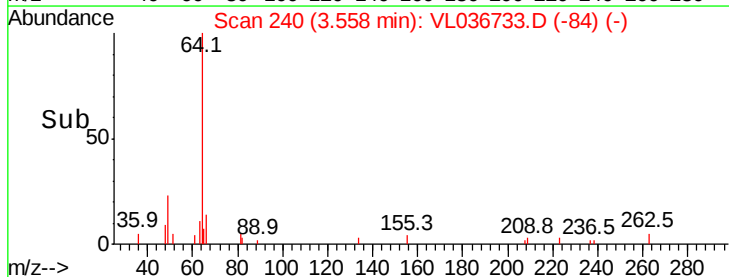
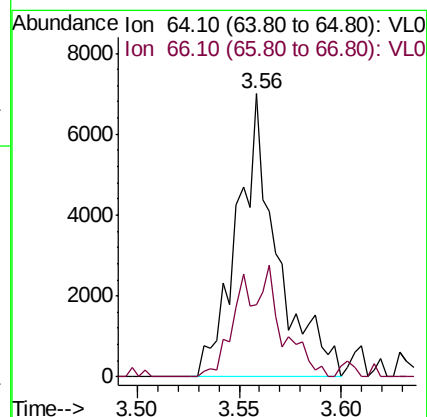
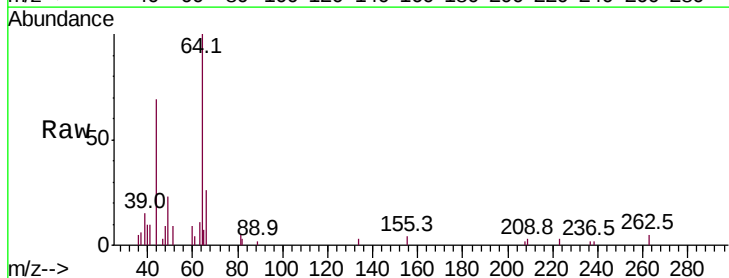
Acq: 7 Apr 2021 19:24

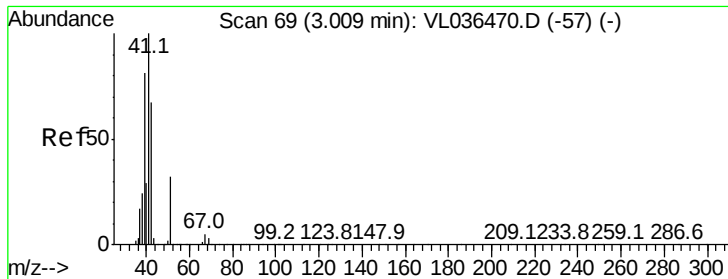
Tgt Ion: 64 Resp: 9571

Ion Ratio Lower Upper

64 100

66 25.6 26.2 39.2#





#9

Propene

Concen: 0.786 ppbv m

RT: 3.01 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

FS-SV-03-X

Tot Ion: 41 Resp: 58302

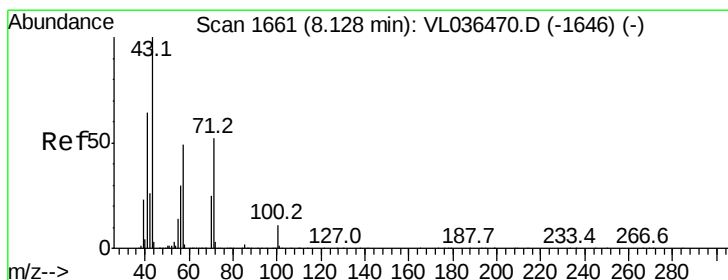
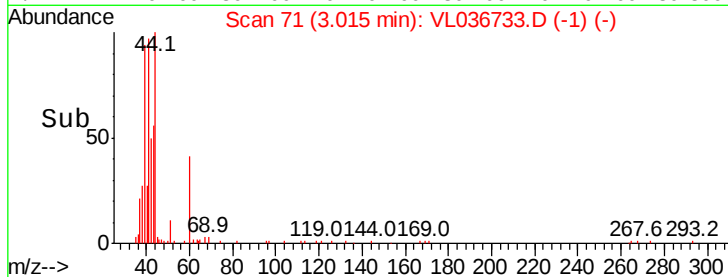
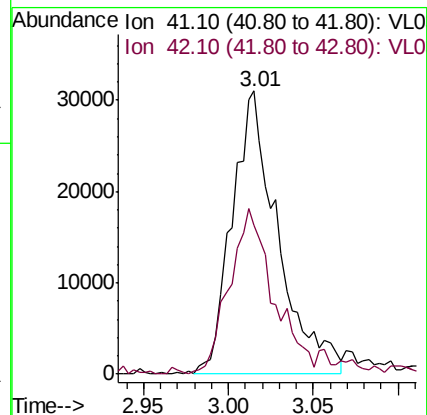
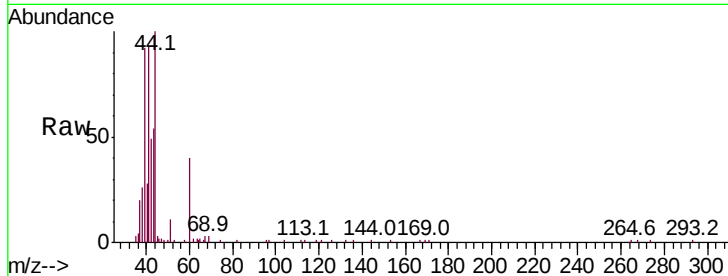
Ion Ratio Lower Upper

41 100

42 61.4 57.0 85.4

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#10

Heptane

Concen: 0.152 ppbv m

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL036733.D

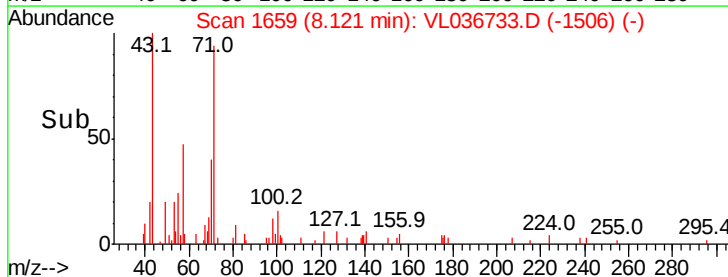
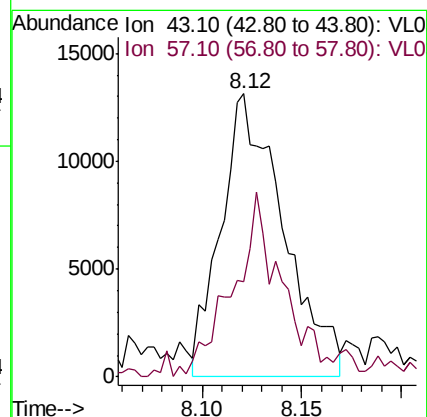
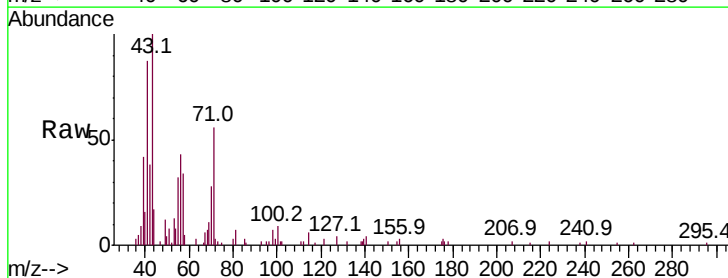
Acq: 7 Apr 2021 19:24

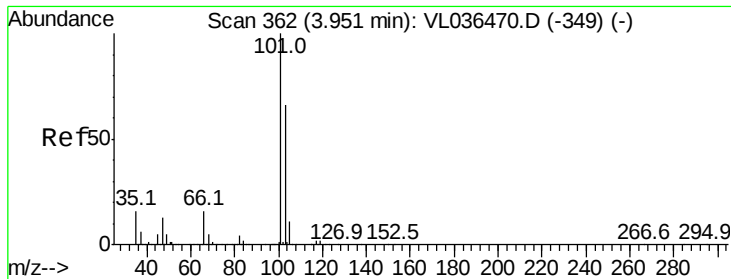
Tgt Ion: 43 Resp: 28662

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





#11

Trichlorofluoromethane

Concen: 0.352 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

FS-SV-03-X

Tot Ion:101 Resp: 72892

Ion Ratio Lower Upper

101 100

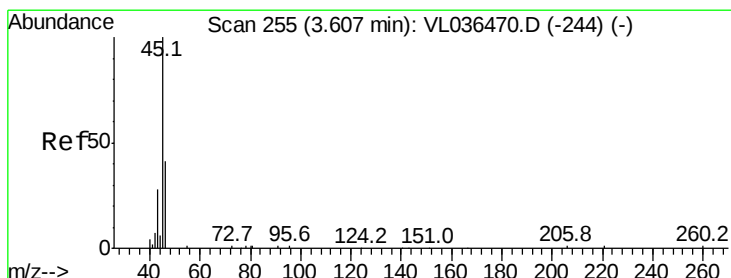
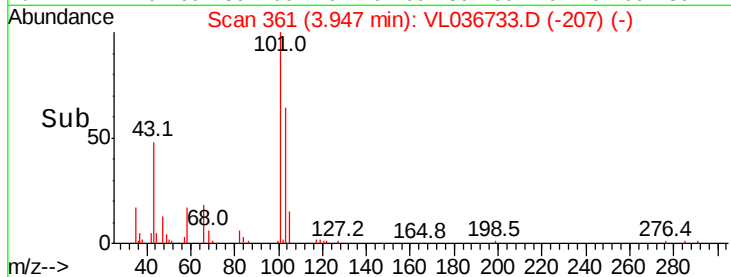
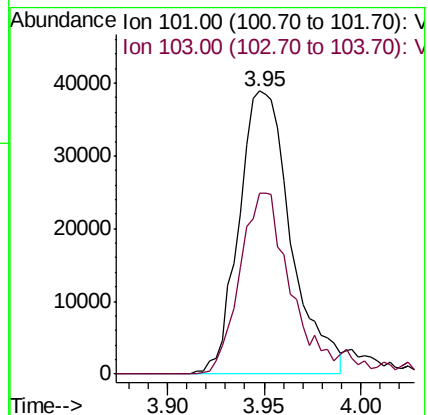
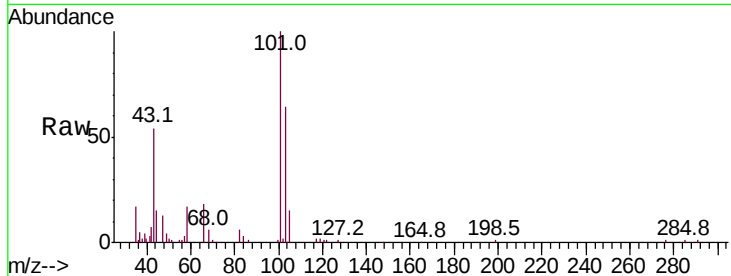
103 63.9 52.5 78.7

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#13

Ethanol

Concen: 7.579 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL036733.D

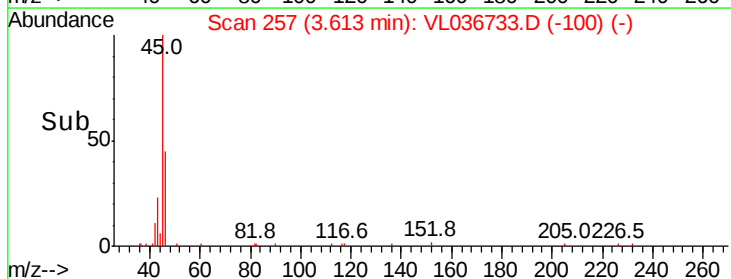
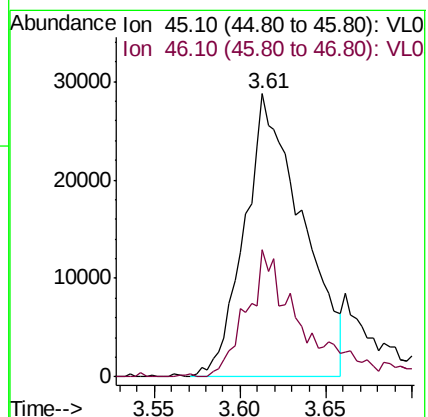
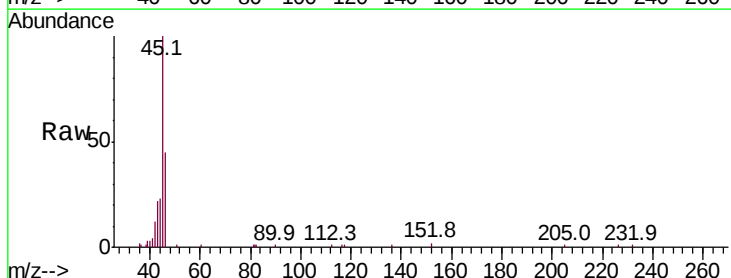
Acq: 7 Apr 2021 19:24

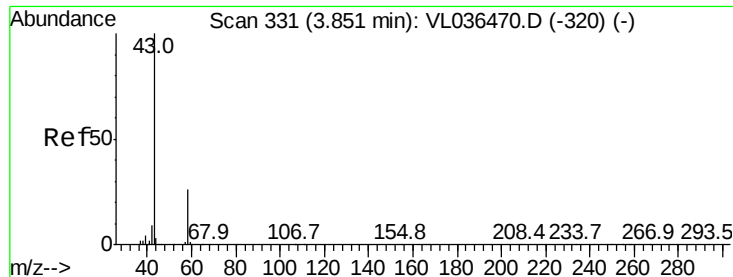
Tgt Ion: 45 Resp: 66950

Ion Ratio Lower Upper

45 100

46 47.0 16.6 66.2





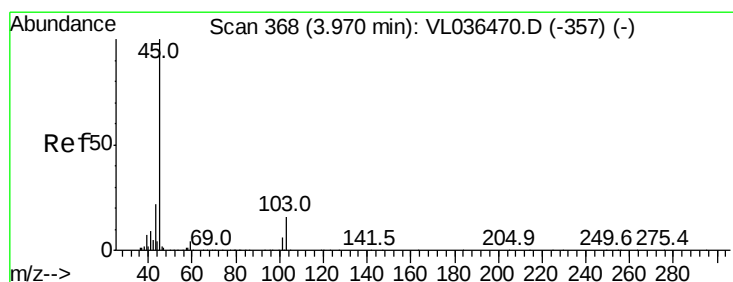
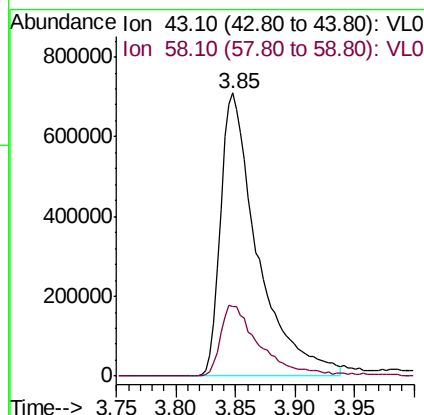
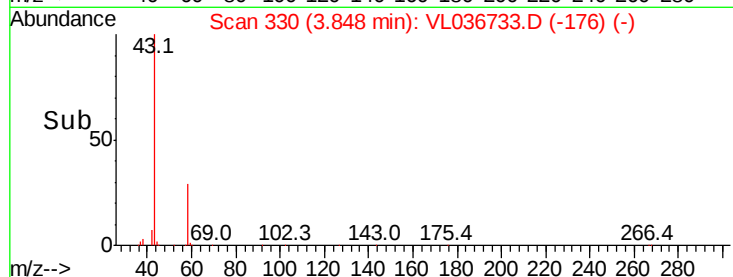
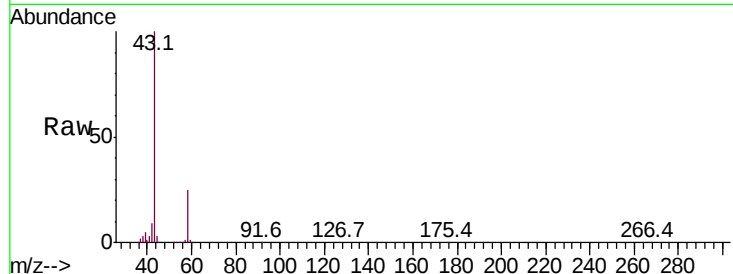
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Acetone
Concen: 12.473 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
FS-SV-03-X

Tot Ion: 43 Resp: 1528799
Ion Ratio Lower Upper
43 100
58 27.4 21.2 31.8

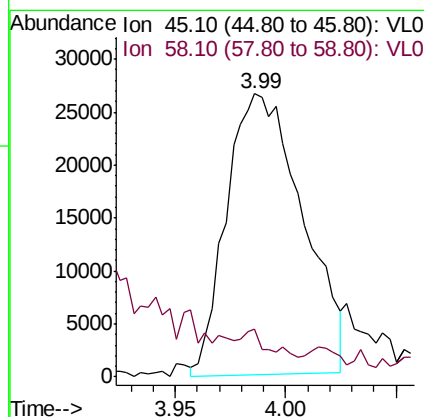
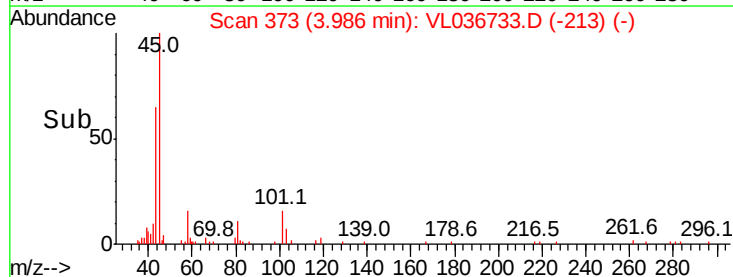
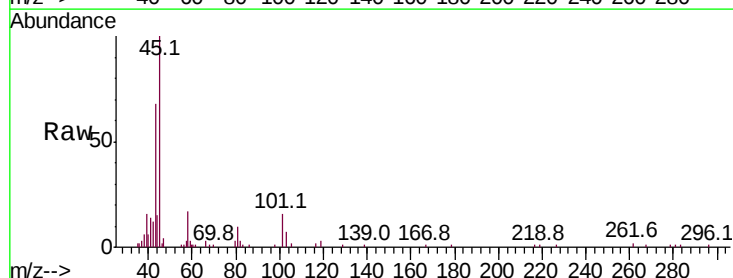
Manual Integrations
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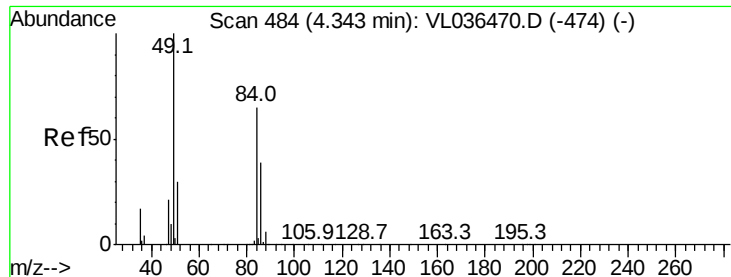
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#19
Isopropyl Alcohol
Concen: 0.938 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Tgt Ion: 45 Resp: 63263
Ion Ratio Lower Upper
45 100
58 0.0 2.9 4.3#





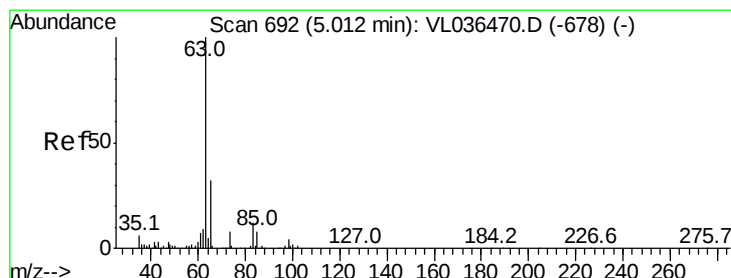
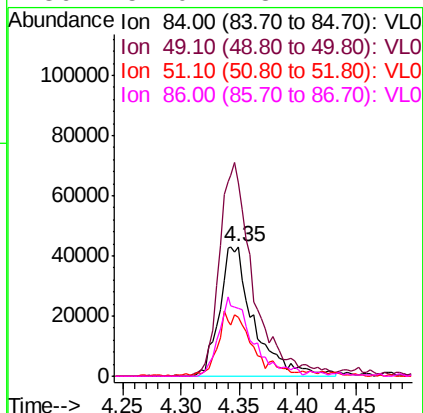
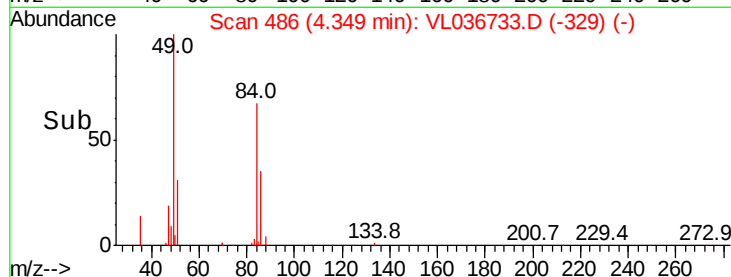
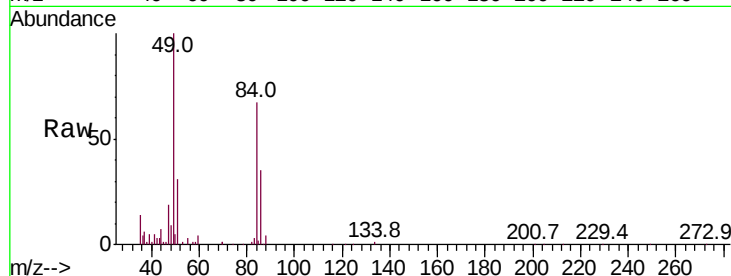
#20
Methylene Chloride
Concen: 1.547 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
FS-SV-03-X

Tot Ion	84	Resp	88775
Ion	Ratio	Lower	Upper
84	100		
49	149.0	122.9	184.3
51	45.9	36.9	55.3
86	52.0	48.2	72.4

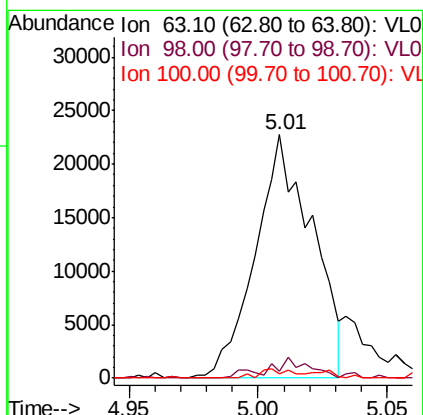
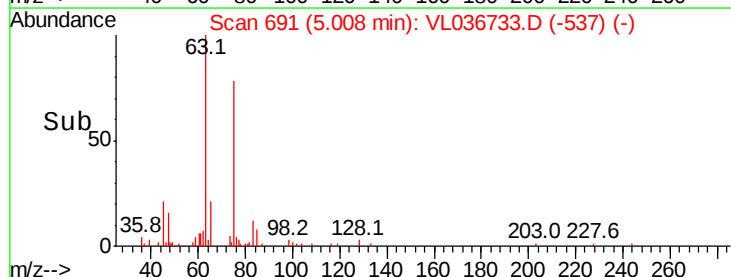
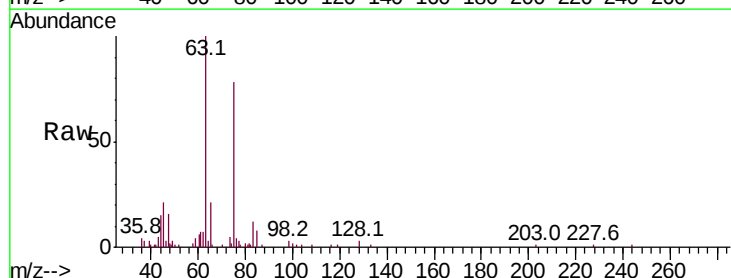
Manual Integrations
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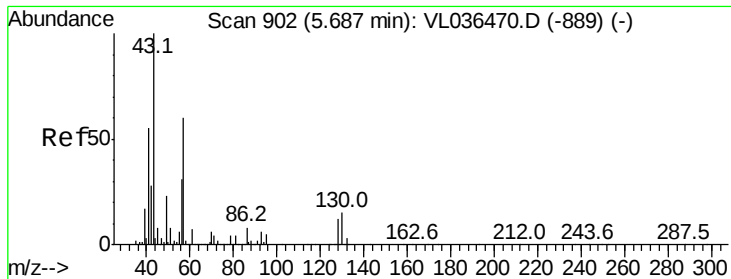
MMDadoda
4/12/2021 11:16:03 AM



#24
1,1-Dichloroethane
Concen: 0.228 ppbv
RT: 5.01 min Scan# 691
Delta R.T. -0.00 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Tgt Ion	63	Resp	34789
Ion	Ratio	Lower	Upper
63	100		
98	3.0	2.1	6.2
100	1.9	0.9	2.8





#26

Hexane

Concen: 0.866 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

FS-SV-03-X

Tot Ion: 57 Resp: 117056

Ion Ratio Lower Upper

57 100

41 104.6 77.2 115.8

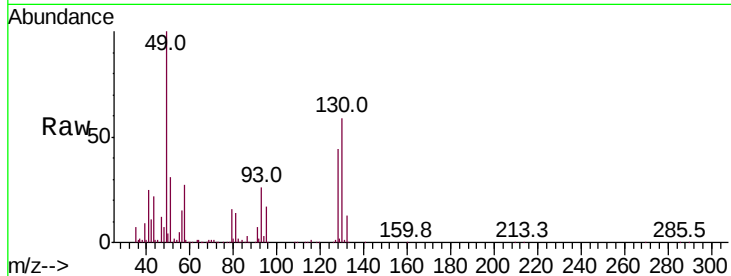
43 88.0 173.8 260.6#

56 61.9 43.8 65.6

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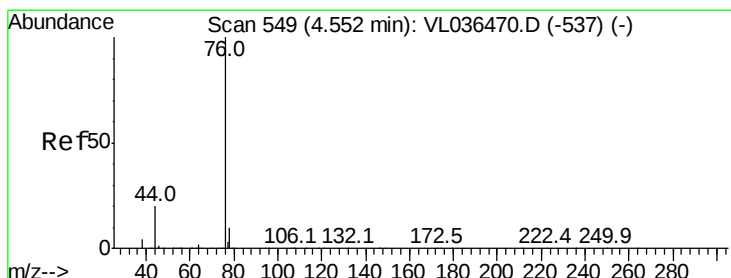
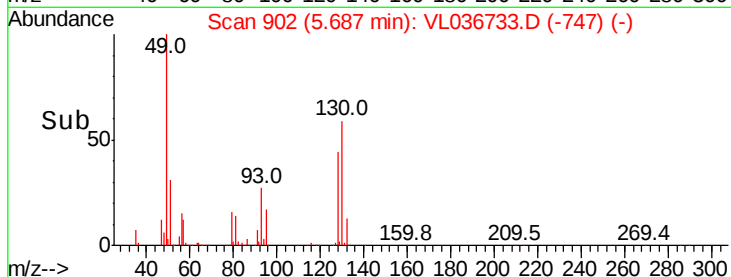
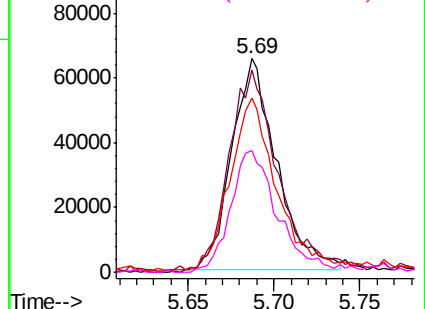
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.590 ppbv m

RT: 4.56 min Scan# 551

Delta R.T. 0.01 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

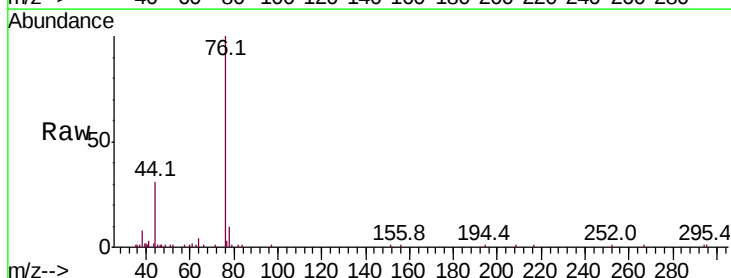
Tgt Ion: 76 Resp: 78641

Ion Ratio Lower Upper

76 100

44 32.0 17.5 26.3#

78 11.9 8.6 13.0

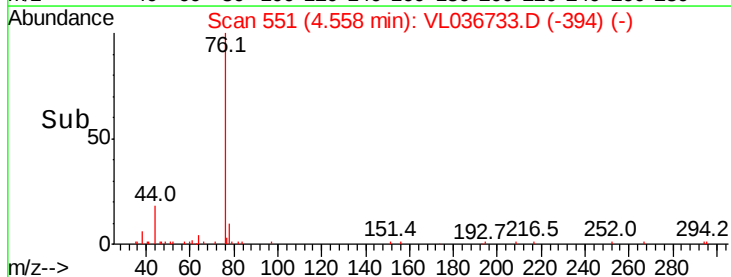
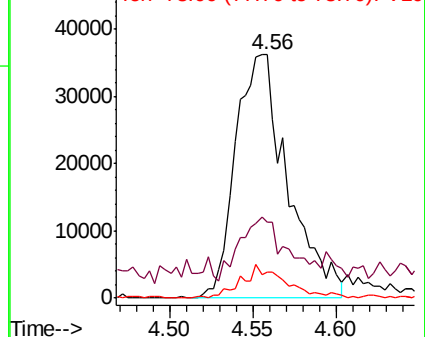


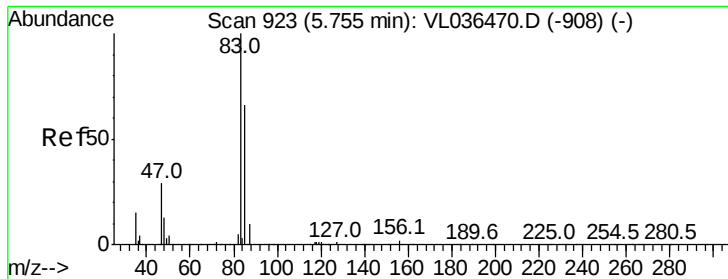
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.192 ppbv m

RT: 5.75 min Scan# 921

Delta R.T. -0.01 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampled :

FS-SV-03-X

Tot Ion: 83 Resp: 41505

Ion Ratio Lower Upper

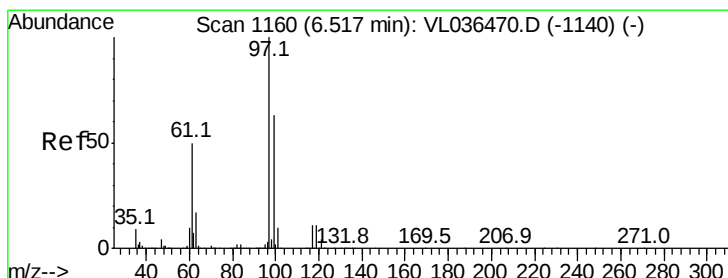
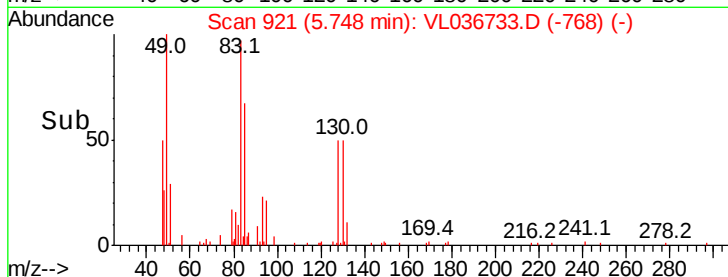
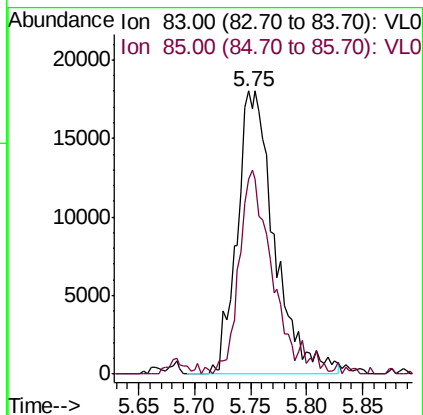
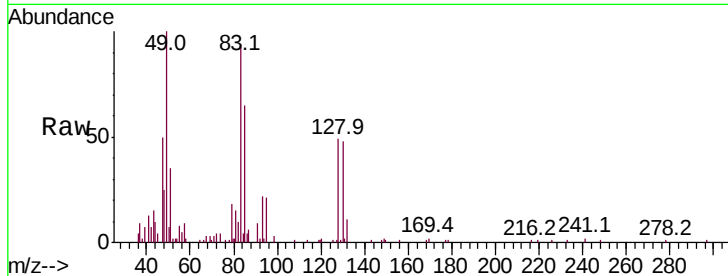
83 100

85 68.9 52.6 78.8

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#32

1,1,1-Trichloroethane

Concen: 0.153 ppbv m

RT: 6.52 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

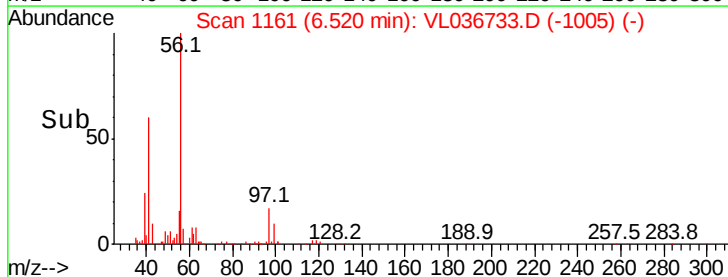
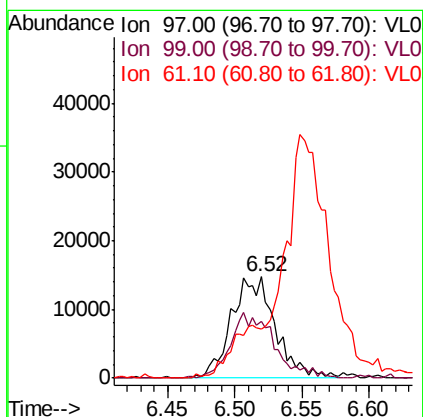
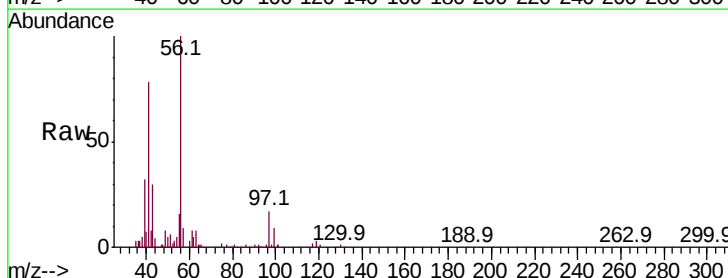
Tgt Ion: 97 Resp: 33385

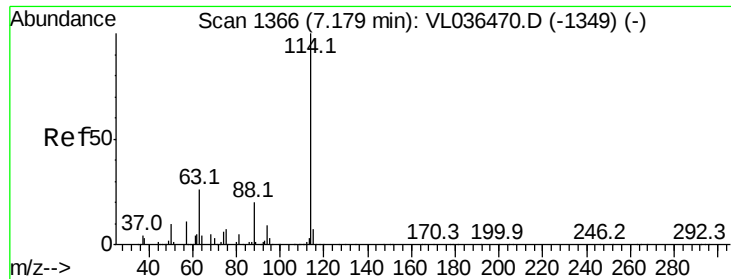
Ion Ratio Lower Upper

97 100

99 64.9 51.4 77.0

61 0.0 40.6 60.8#





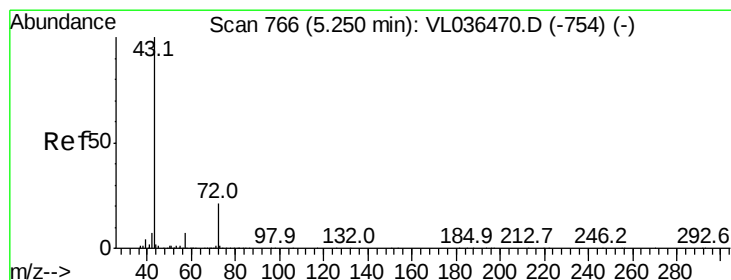
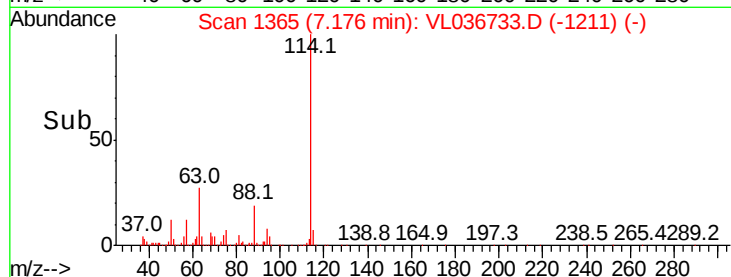
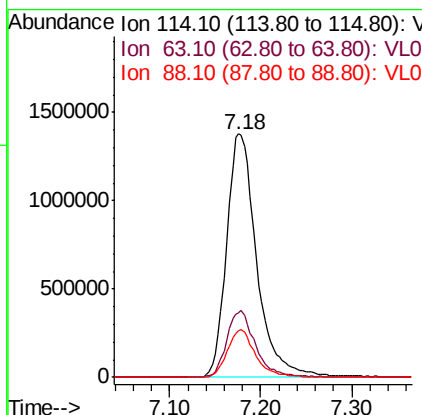
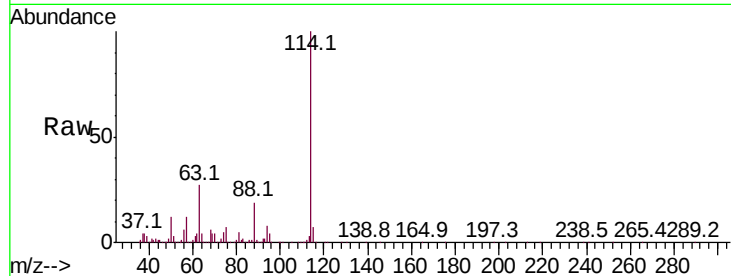
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL036733.D
 Acq: 7 Apr 2021 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV-03-X

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	22.4	33.6
88	18.8	15.4	23.0

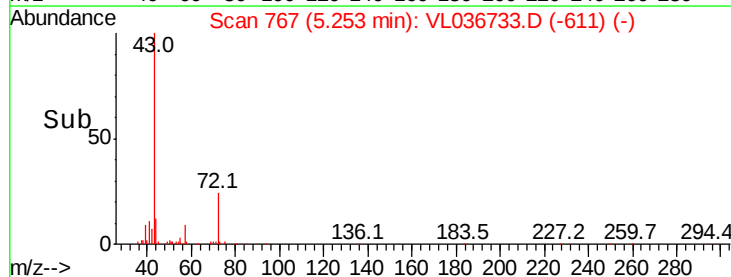
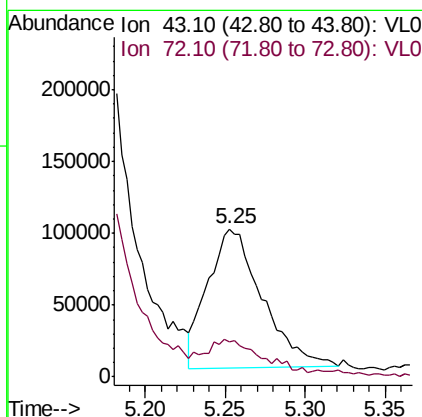
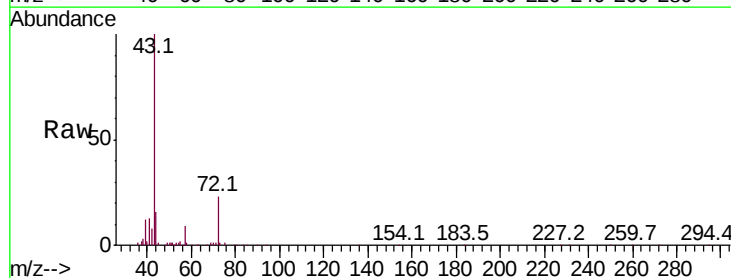
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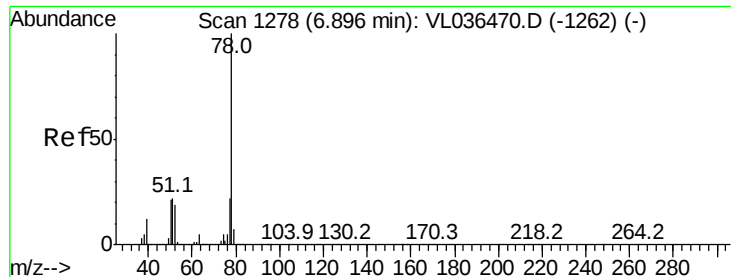
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#34
 2-Butanone
 Concen: 1.471 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL036733.D
 Acq: 7 Apr 2021 19:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.9	17.0	25.6#





#36

Benzene

Concen: 0.359 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Instrument :

MSVOA_L

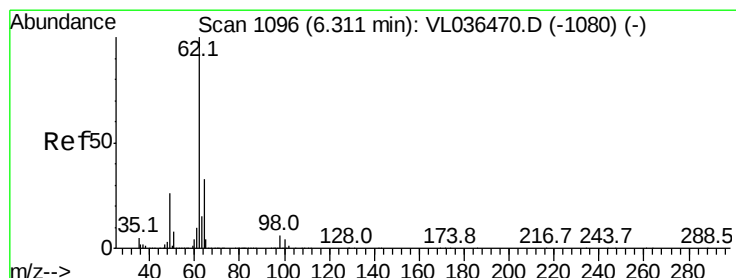
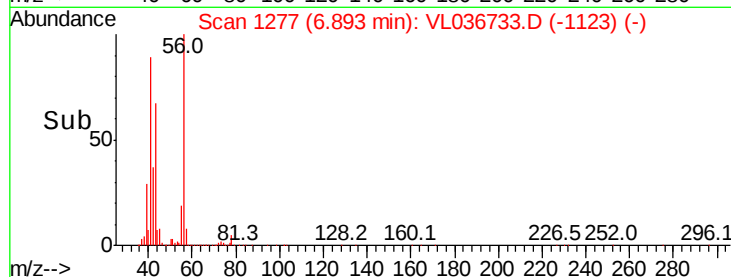
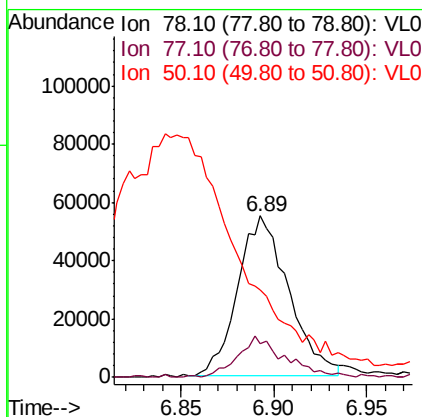
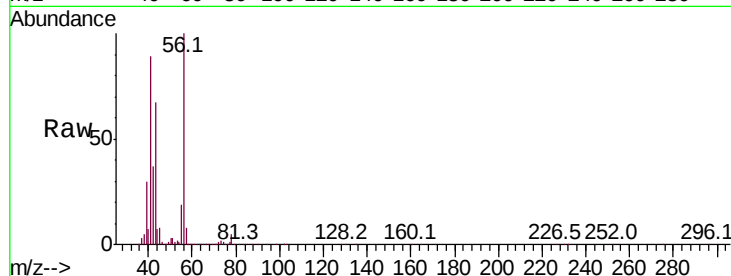
ClientSampleId :

FS-SV-03-X

Tot Ion:	78	Resp:	104713
Ion Ratio	Lower	Upper	
78	100		
77	20.1	18.0	27.0
50	39.0	16.5	24.7#

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#37

1,2-Dichloroethane

Concen: 0.430 ppbv

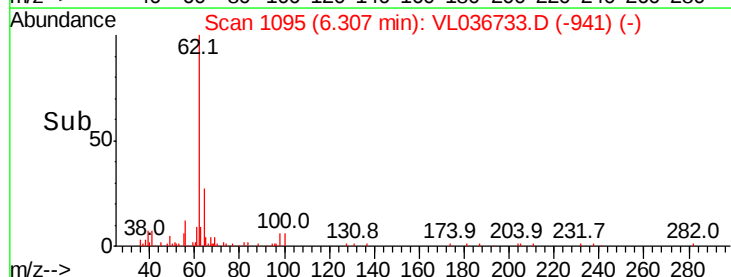
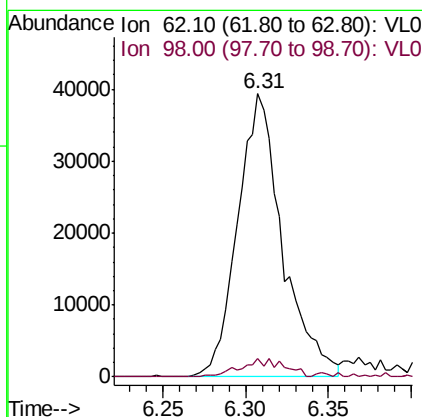
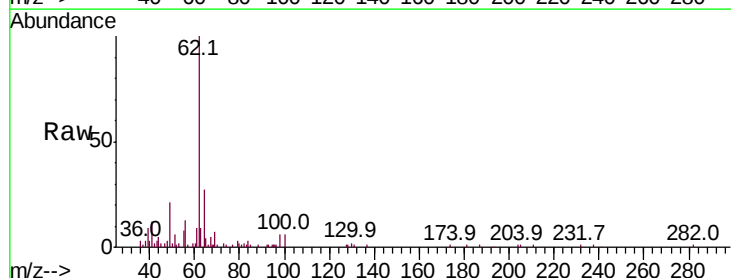
RT: 6.31 min Scan# 1095

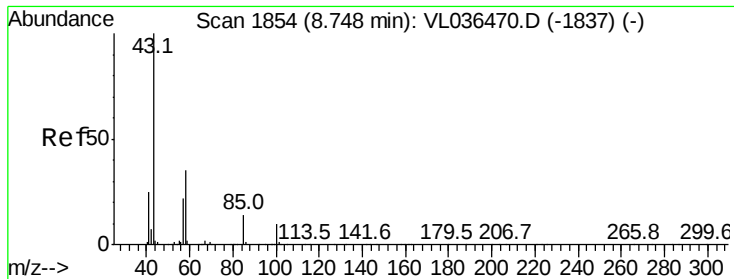
Delta R.T. -0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Tgt Ion:	62	Resp:	73757
Ion Ratio	Lower	Upper	
62	100		
98	6.8	4.9	7.3





#50

4-Methyl-2-Pentanone

Concen: 0.135 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

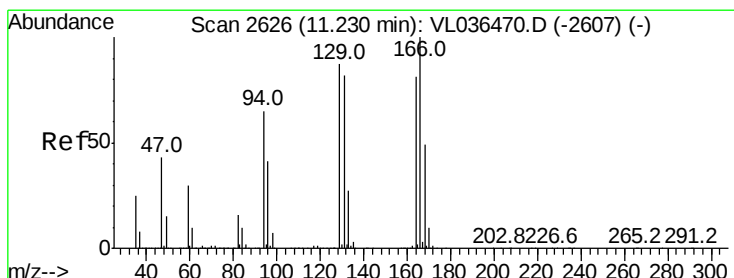
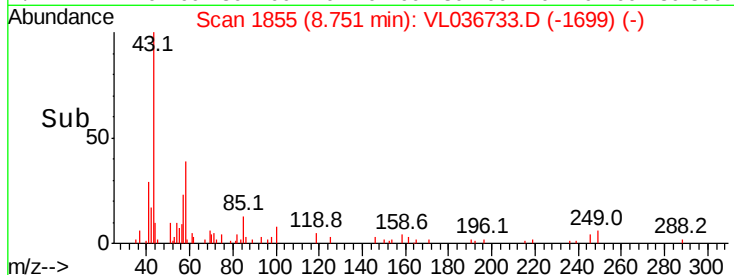
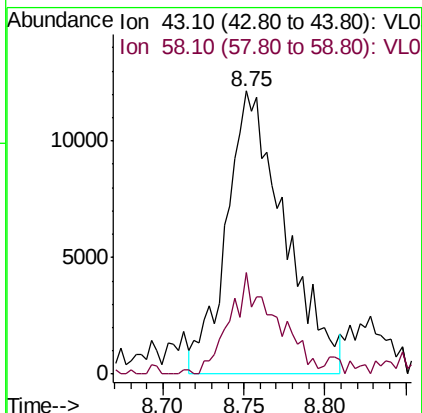
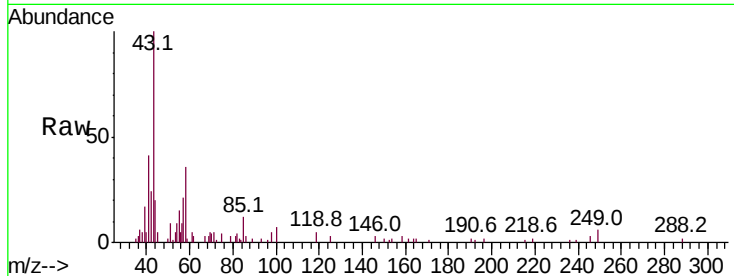
Instrument :
MSVOA_L
ClientSampleId :
FS-SV-03-X

Tot Ion: 43 Resp: 30167

Ion	Ratio	Lower	Upper
43	100		
58	30.8	28.2	42.2

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#52

Tetrachloroethene

Concen: 7.030 ppbv

RT: 11.23 min Scan# 2625

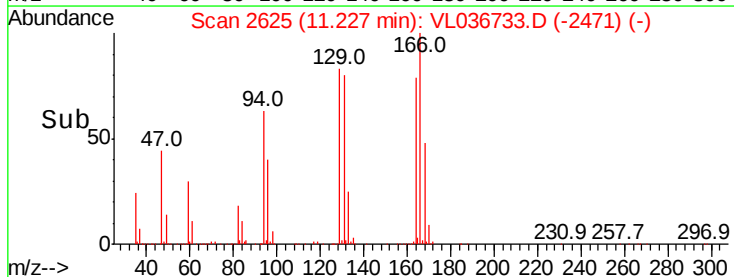
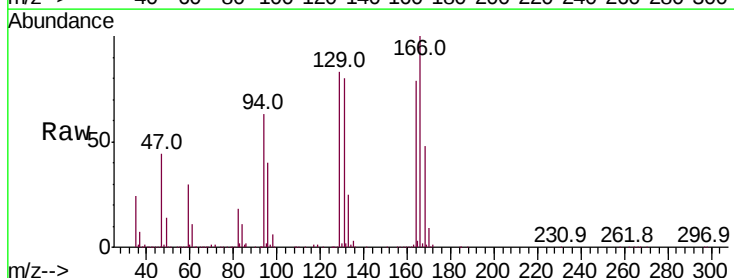
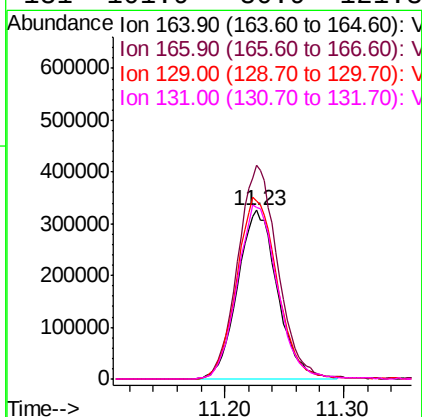
Delta R.T. -0.00 min

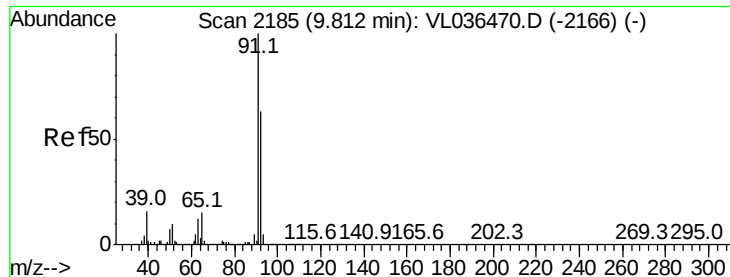
Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Tgt Ion: 164 Resp: 754893

Ion	Ratio	Lower	Upper
164	100		
166	126.7	98.3	147.5
129	105.0	85.8	128.8
131	101.9	80.9	121.3





#53

Toluene

Concen: 2.697 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

Instrument :

MSVOA_L

ClientSampleId :

FS-SV-03-X

Tot Ion: 91 Resp: 837443

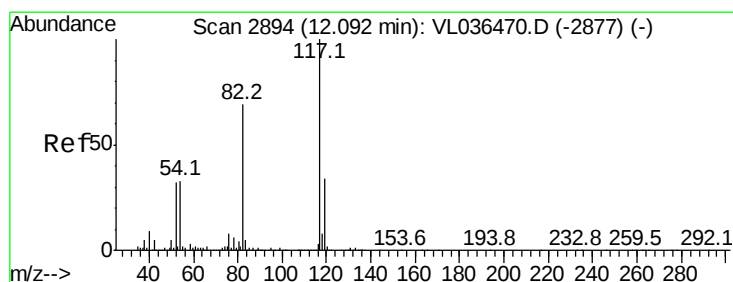
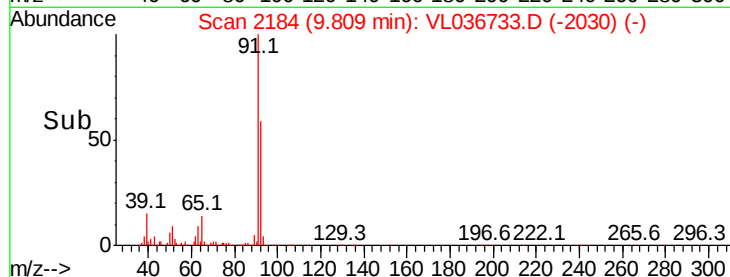
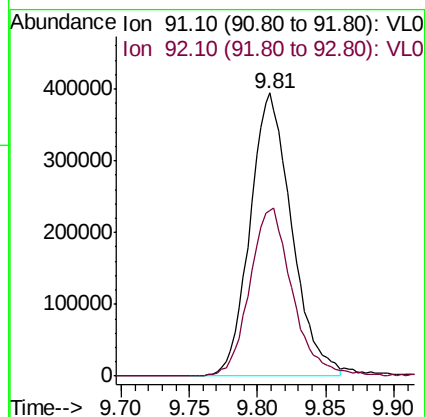
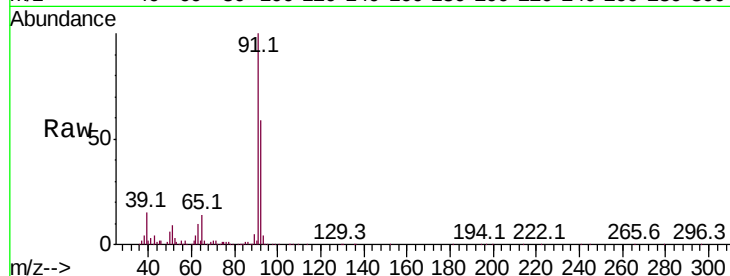
Ion Ratio Lower Upper

91 100

92 60.7 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036733.D

Acq: 7 Apr 2021 19:24

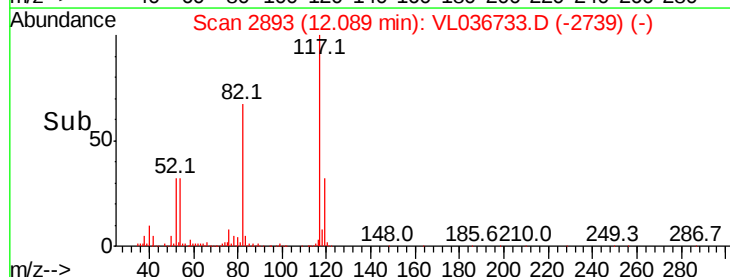
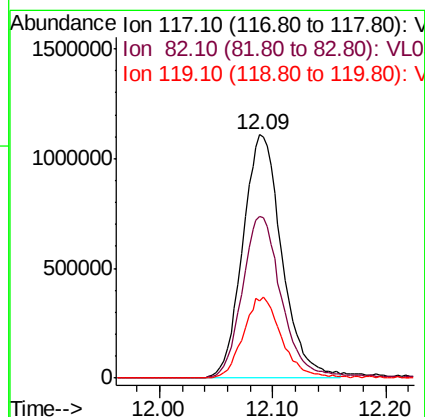
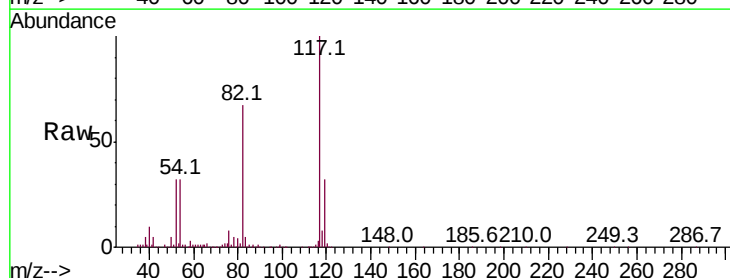
Tgt Ion: 117 Resp: 2664904

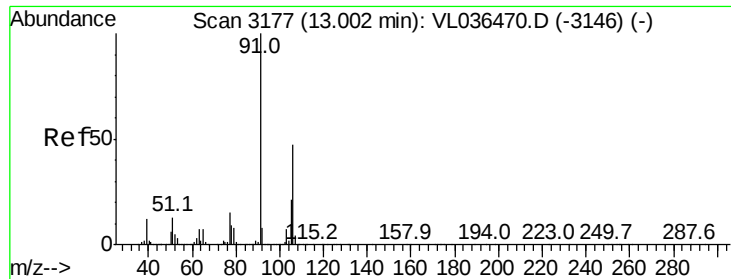
Ion Ratio Lower Upper

117 100

82 68.3 57.4 86.0

119 33.2 47.4 71.0#





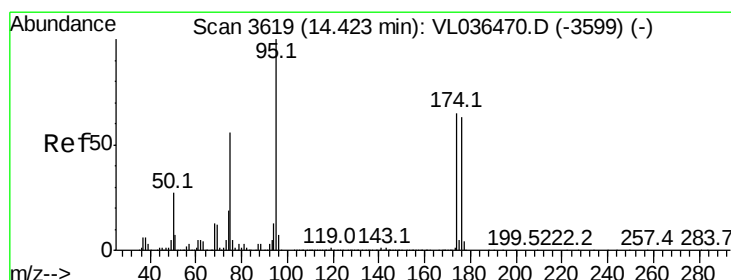
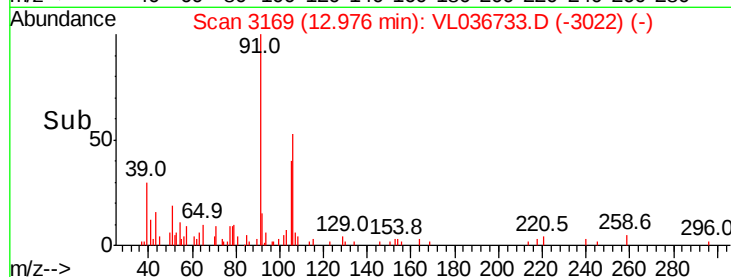
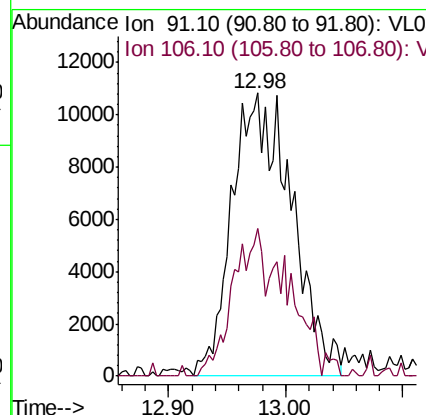
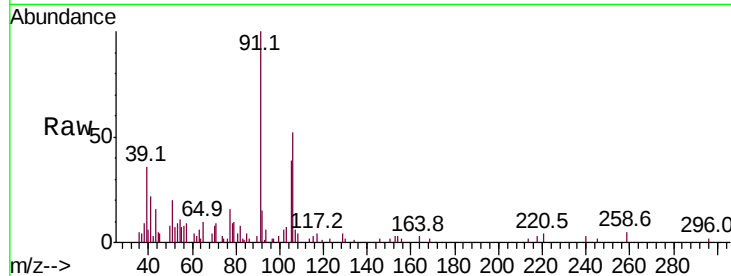
#59
m/p-Xylene
Concen: 0.113 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Instrument :
MSVOA_L
ClientSampleId :
FS-SV-03-X

Tot Ion: 91 Resp: 38086
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

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#68
1-Bromo-4-Fluorobenzene
Concen: 9.653 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036733.D
Acq: 7 Apr 2021 19:24

Tgt Ion: 95 Resp: 2050282
Ion Ratio Lower Upper
95 100
174 64.9 51.0 76.6
175 4.8 3.9 5.9

