

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
 Data File : VL037692.D
 Acq On : 27 Sep 2021 22:31
 Operator : SY/AP
 Sample : M3948-04 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:30 AM

Quant Time: Sep 28 21:00:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1597569	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4634907	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	4007093	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3941362	13.61	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	136.10%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.00	51	60398	0.200	ppbv	95
9) Propene	3.02	41	2346117	22.072	ppbv	88
10) Heptane	8.13	43	219052	0.883	ppbv	98
11) Trichlorofluoromethane	3.96	101	27348m	0.118	ppbv	
13) Ethanol	3.61	45	214853m	20.665	ppbv	
15) Acetone	3.85	43	15679248	94.462	ppbv	93
17) tert-Butyl alcohol	4.30	59	293807m	2.087	ppbv	
20) Methylene Chloride	4.36	84	84594	1.068	ppbv #	92
26) Hexane	5.70	57	269716	1.412	ppbv #	46
27) Carbon Disulfide	4.56	76	100911m	0.578	ppbv	
30) Cyclohexane	7.14	84	283215	1.734	ppbv	84
32) 1,1,1-Trichloroethane	6.52	97	42165	0.162	ppbv	93
34) 2-Butanone	5.25	43	2337898	12.412	ppbv	97
36) Benzene	6.90	78	830517	2.149	ppbv	99
38) Trichloroethene	7.84	130	160934	0.997	ppbv	91
44) 2,2,4-Trimethylpentane	7.87	57	297421m	0.458	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	168751m	0.706	ppbv	
51) 2-Hexanone	10.12	43	1796837	17.035	ppbv #	54
52) Tetrachloroethene	11.23	164	149556	1.008	ppbv	92
53) Toluene	9.82	91	403251	0.939	ppbv	97
58) Ethyl Benzene	12.72	91	444360	0.835	ppbv	99
59) m/p-Xylene	12.98	91	2259165	4.874	ppbv	94
60) o-Xylene	13.70	91	1102159	2.498	ppbv	99
62) Isopropylbenzene	14.67	105	645671	1.048	ppbv	100
64) n-propylbenzene	15.57	120	98394	0.619	ppbv #	54
67) sec-Butylbenzene	17.30	105	276762	0.367	ppbv	96
69) p-Isopropyltoluene	17.66	119	448286	0.728	ppbv	97
72) 4-Ethyltoluene	15.85	105	321381m	0.635	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	600505	1.272	ppbv	96
74) 1,2,4-Trimethylbenzene	16.77	105	1574587	3.167	ppbv #	78

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

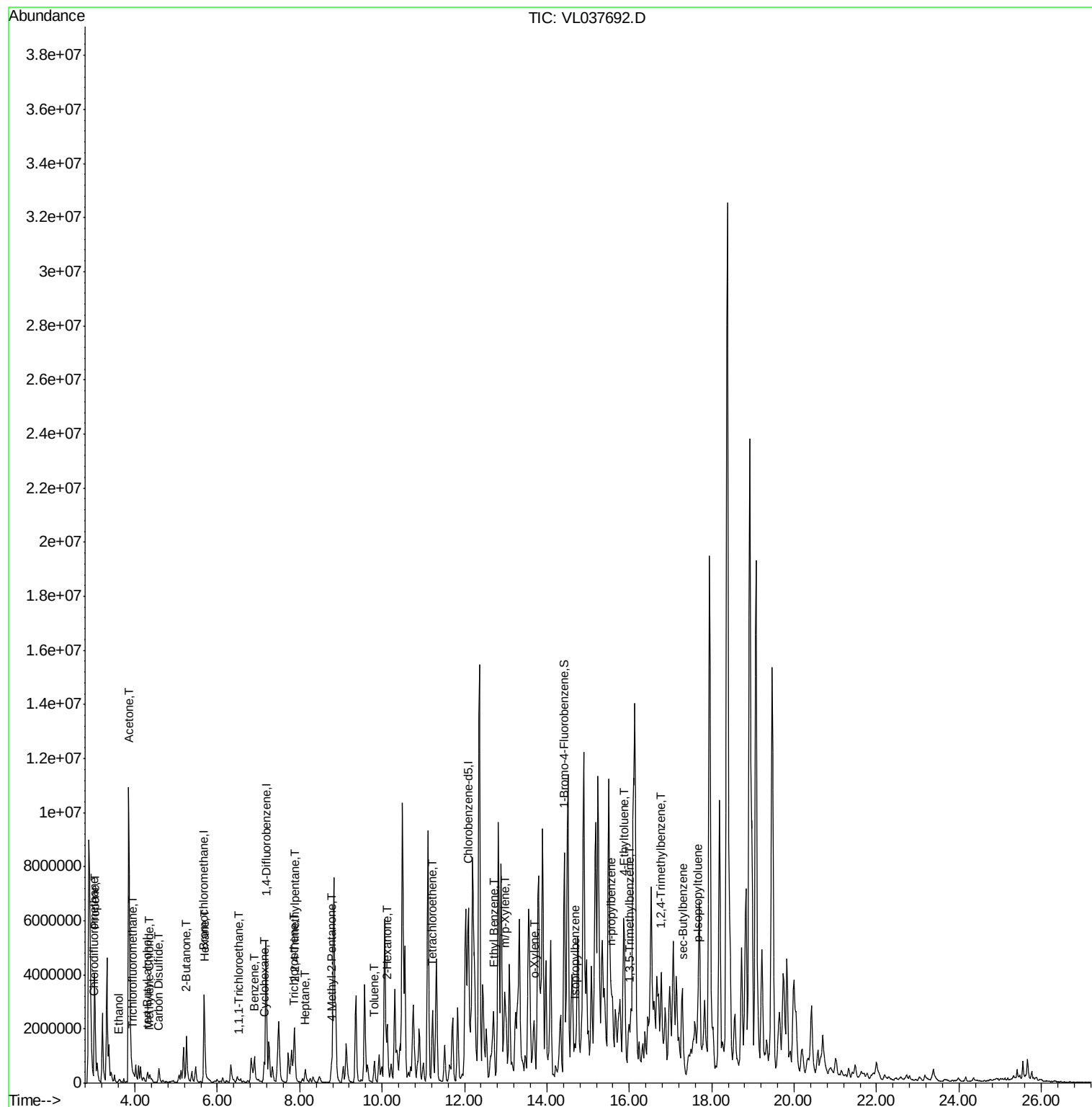
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092721\
Data File : VL037692.D
Acq On : 27 Sep 2021 22:31
Operator : SY/AP
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ALS Vial : 9 Sample Multiplier: 1

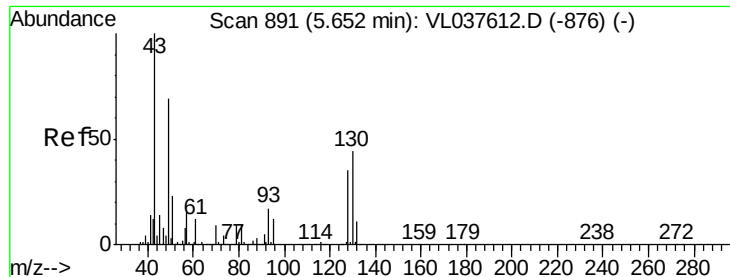
Instrument :
MSVOA_L
ClientSampleId :
SV4

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10/1/2021 11:05:30 AM

Quant Time: Sep 28 21:00:51 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037692.D

Acq: 27 Sep 2021 22:31

Instrument :

MSVOA_L

ClientSampled :

SV4

Tgt Ion: 49 Resp: 1597569

Ion Ratio Lower Upper

49 100

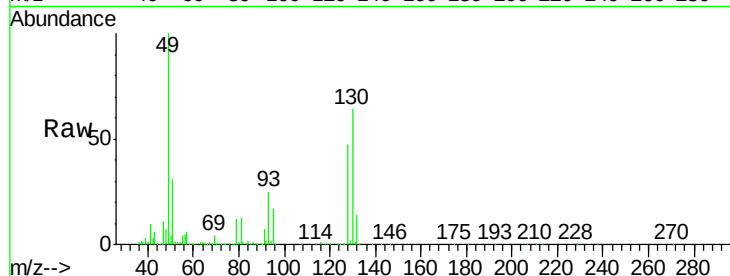
128 51.5 27.9 83.6

130 66.8 33.9 101.7

Manual Integrations
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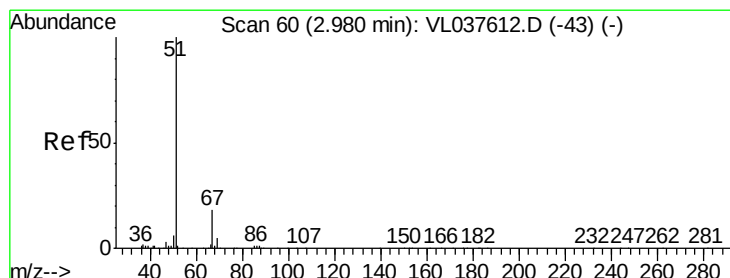
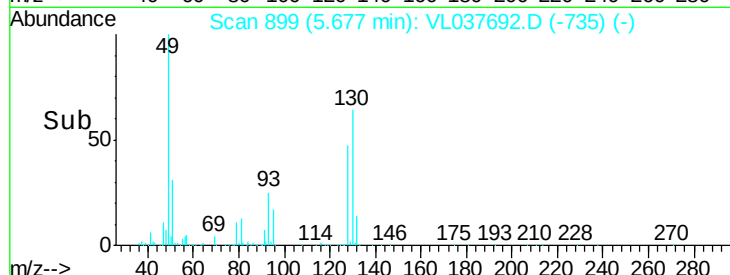
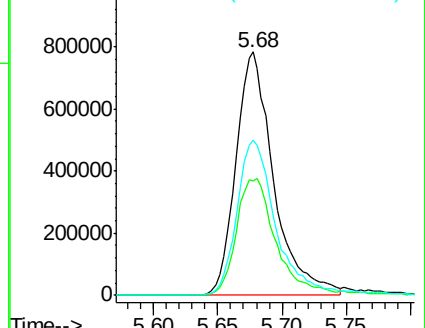
10/1/2021 11:05:30 AM



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: 0.200 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL037692.D

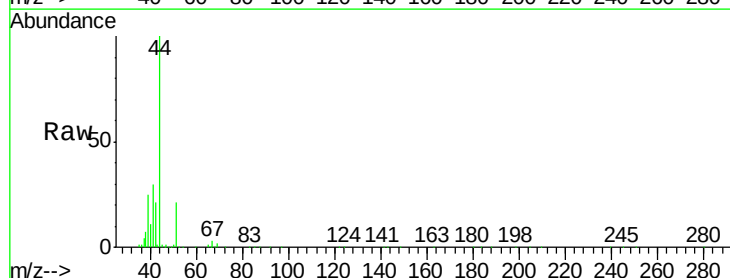
Acq: 27 Sep 2021 22:31

Tgt Ion: 51 Resp: 60398

Ion Ratio Lower Upper

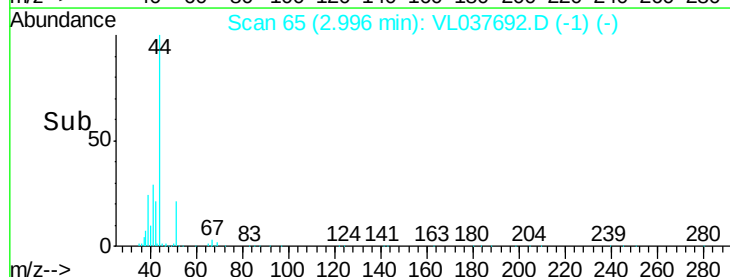
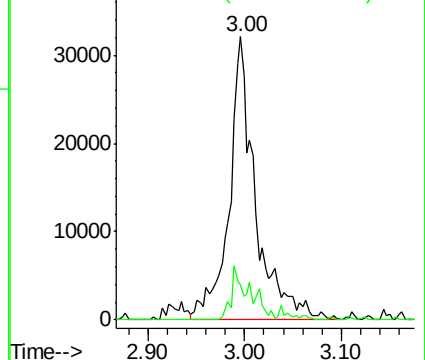
51 100

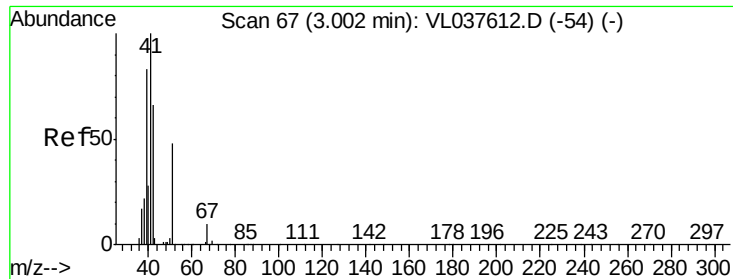
67 15.3 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





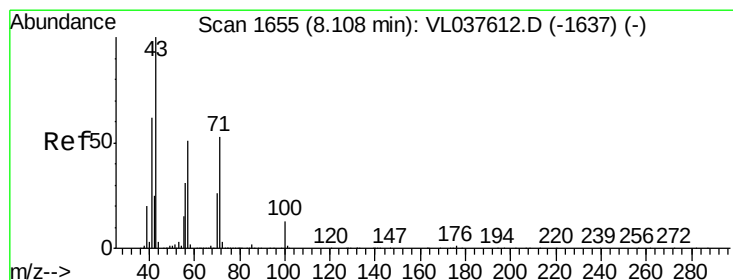
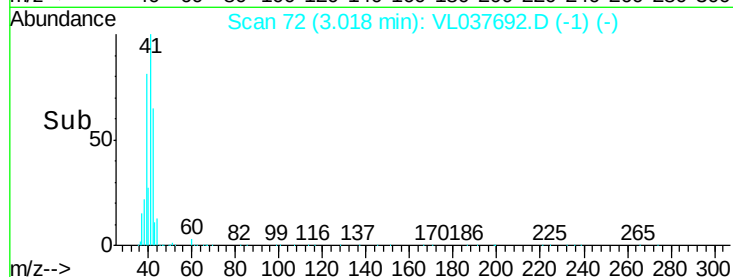
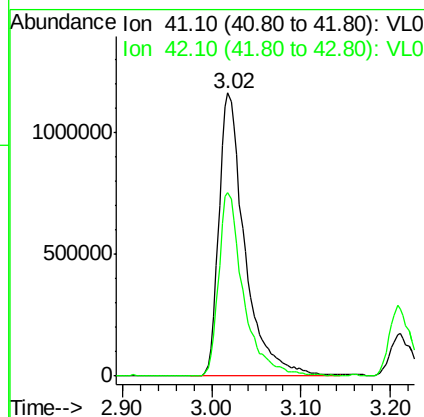
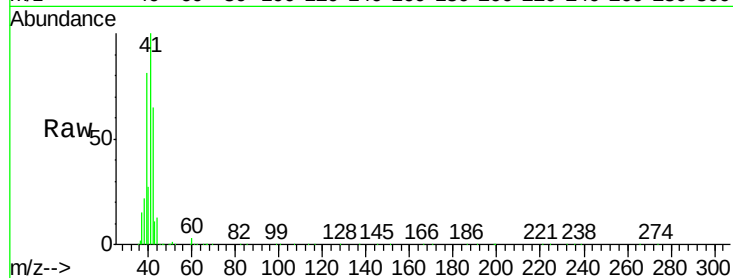
#9
 Propene
 Concen: 22.072 ppbv
 RT: 3.02 min Scan# 72
 Delta R.T. 0.02 min
 Lab File: VL037692.D
 Acq: 27 Sep 2021 22:31

Instrument :
 MSVOA_L
 ClientSampled :
 SV4

Tgt Ion: 41 Resp: 2346117
 Ion Ratio Lower Upper
 41 100
 42 61.7 57.2 85.8

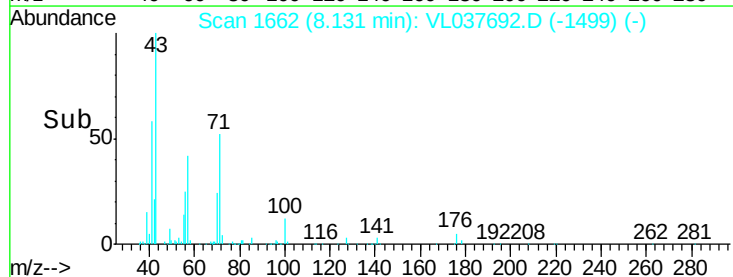
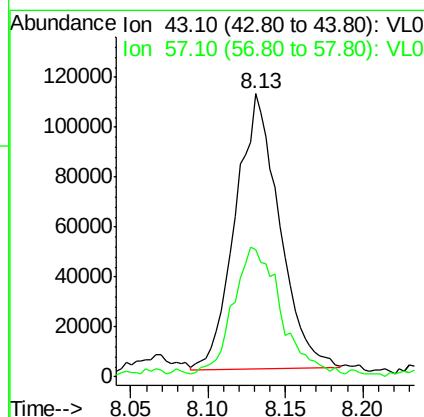
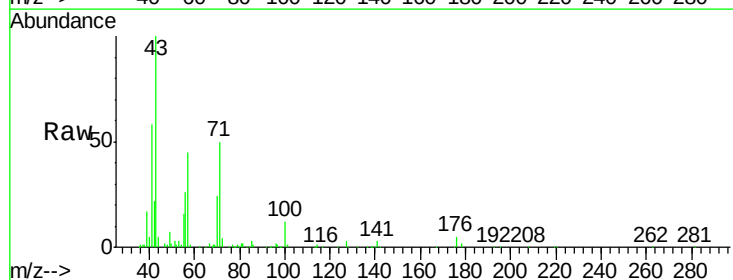
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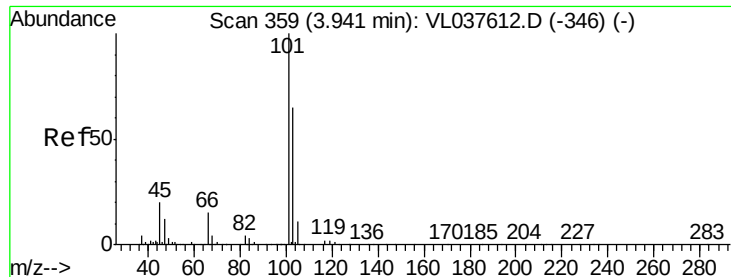
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#10
 Heptane
 Concen: 0.883 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. 0.02 min
 Lab File: VL037692.D
 Acq: 27 Sep 2021 22:31

Tgt Ion: 43 Resp: 219052
 Ion Ratio Lower Upper
 43 100
 57 51.7 40.1 60.1





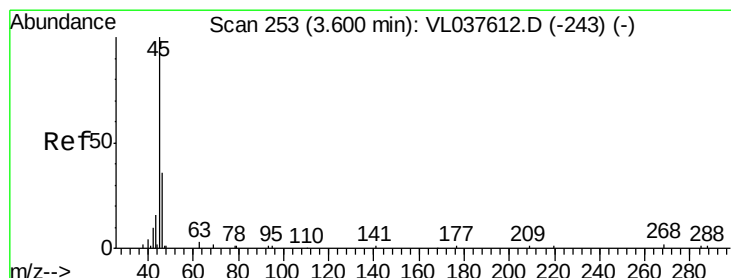
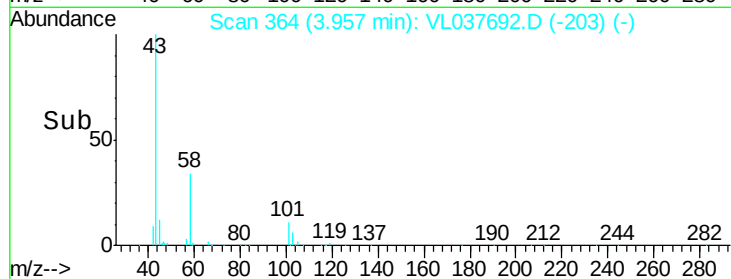
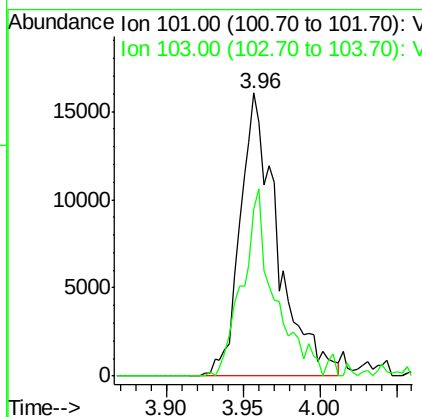
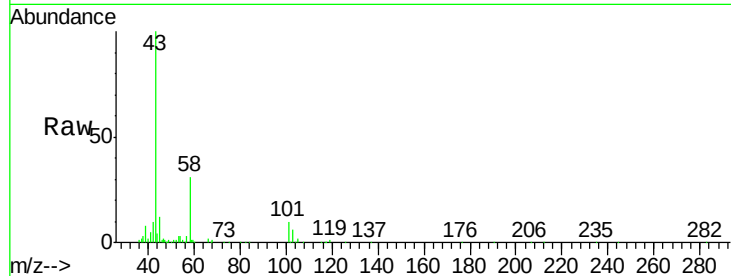
#11
 Trichlorofluoromethane
 Concen: 0.118 ppbv m
 RT: 3.96 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: VL037692.D
 Acq: 27 Sep 2021 22:31

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Tgt Ion: 101 Resp: 27348
 Ion Ratio Lower Upper
 101 100
 103 58.9 51.9 77.9

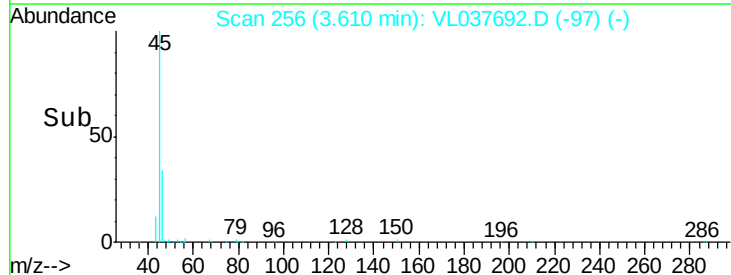
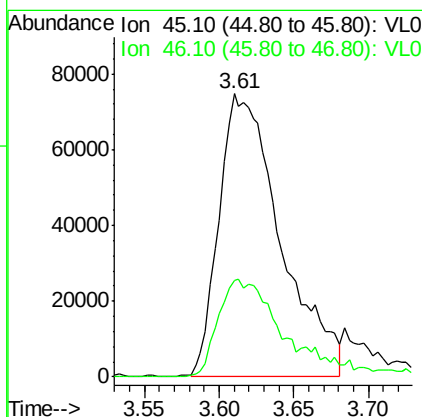
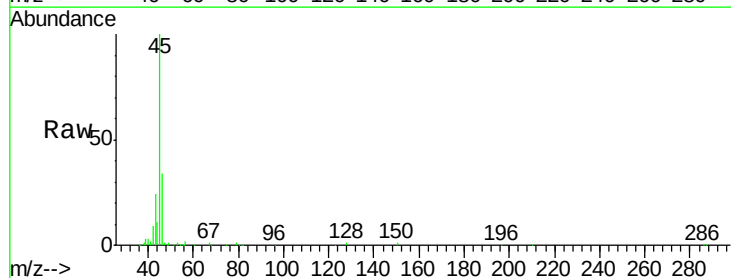
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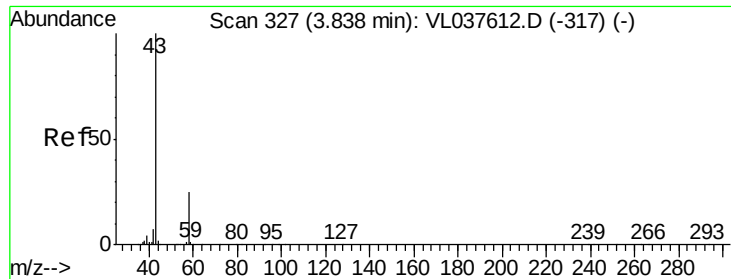
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#13
 Ethanol
 Concen: 20.665 ppbv m
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL037692.D
 Acq: 27 Sep 2021 22:31

Tgt Ion: 45 Resp: 214853
 Ion Ratio Lower Upper
 45 100
 46 39.1 17.2 68.8





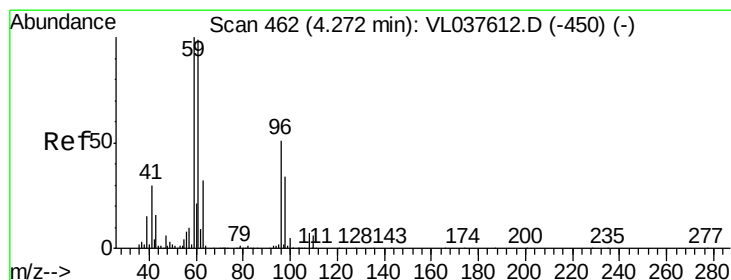
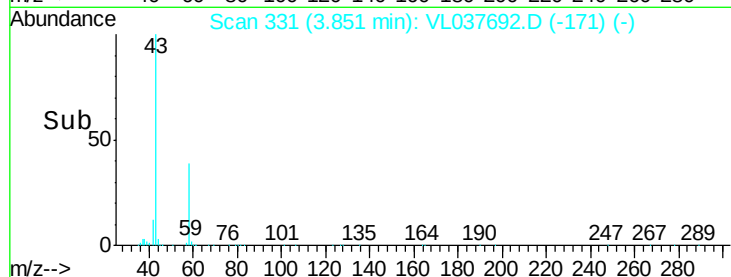
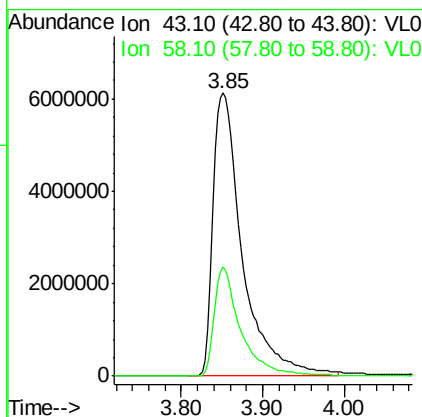
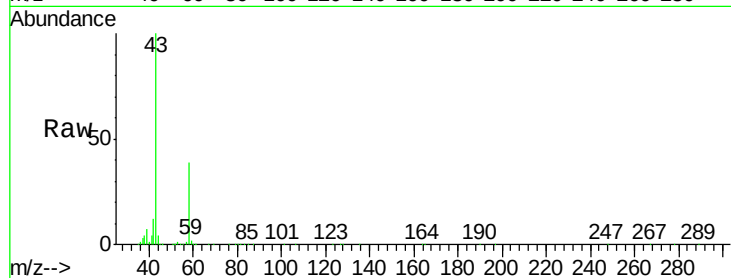
#15
Acetone
Concen: 94.462 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL037692.D
Acq: 27 Sep 2021 22:31

Instrument :
MSVOA_L
ClientSampled :
SV4

Tgt Ion: 43 Resp:15679248
Ion Ratio Lower Upper
43 100
58 35.2 24.9 37.3

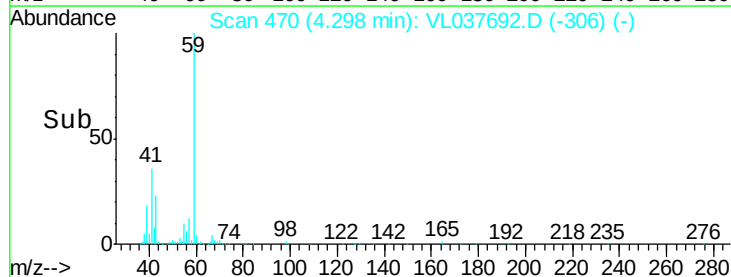
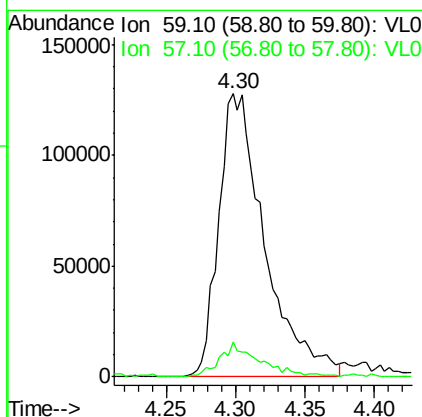
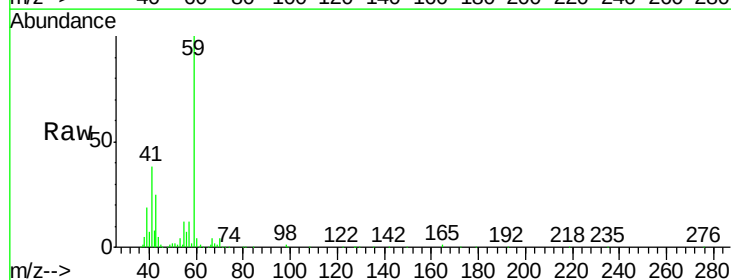
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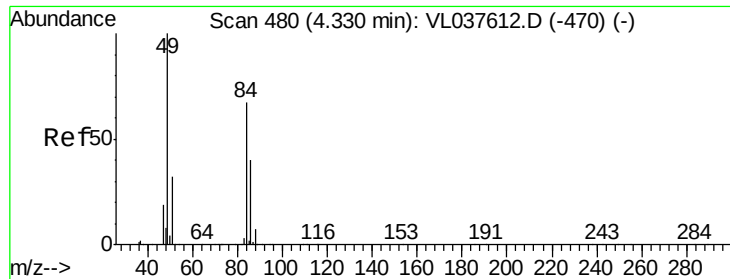
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#17
tert-Butyl alcohol
Concen: 2.087 ppbv m
RT: 4.30 min Scan# 470
Delta R.T. 0.03 min
Lab File: VL037692.D
Acq: 27 Sep 2021 22:31

Tgt Ion: 59 Resp: 293807
Ion Ratio Lower Upper
59 100
57 10.9 8.4 12.6





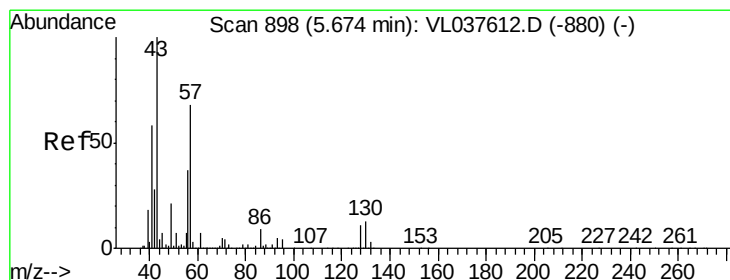
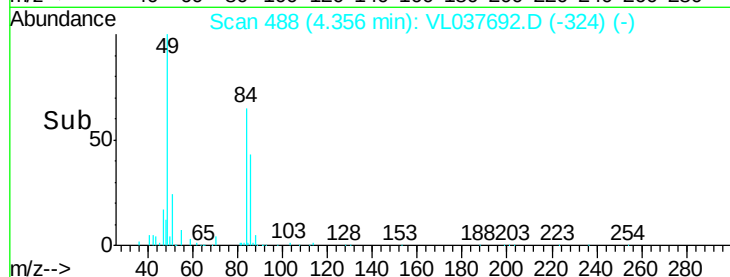
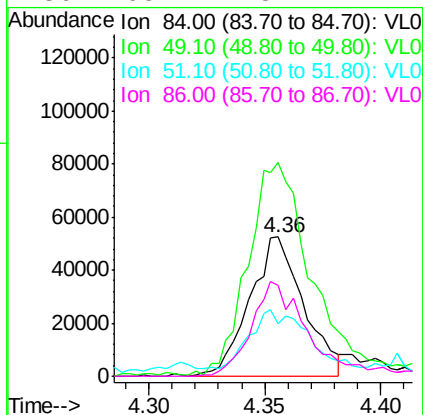
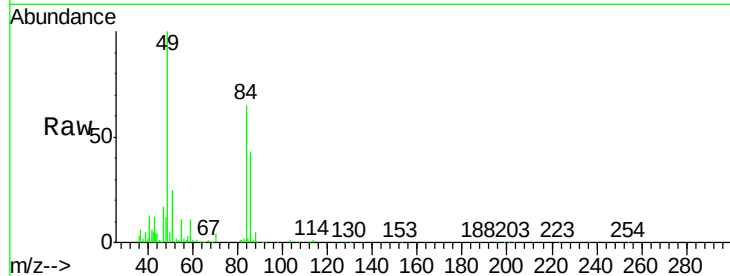
#20
Methylene Chloride
Concen: 1.068 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.03 min
Lab File: VL037692.D
Acq: 27 Sep 2021 22:31

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion	Ratio	Lower	Upper
84	100		
49	152.4	120.0	180.0
51	29.0	38.0	57.0#
86	65.4	48.2	72.2

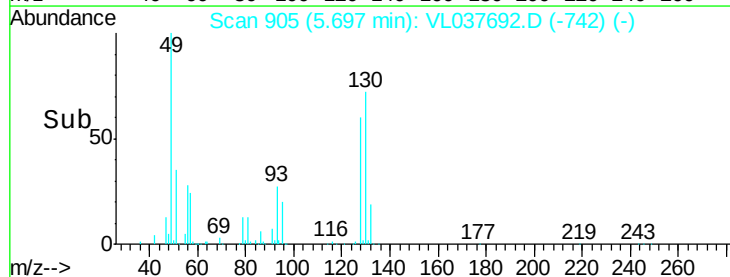
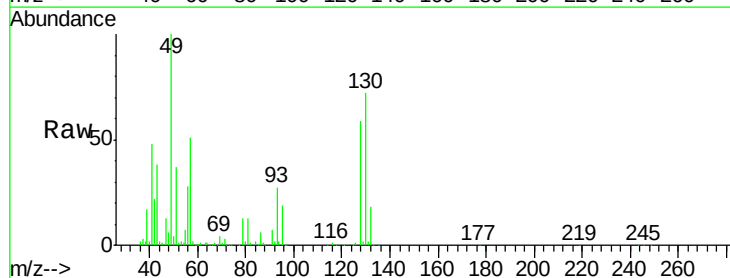
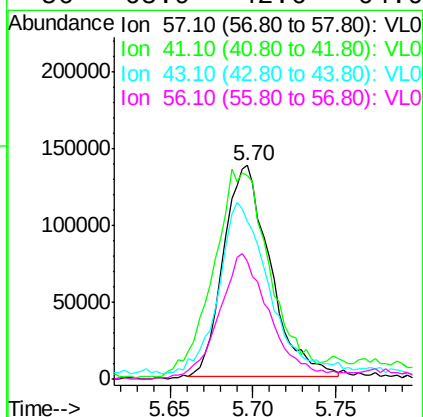
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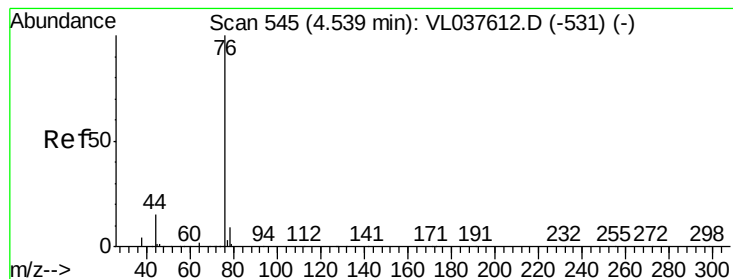
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#26
Hexane
Concen: 1.412 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.02 min
Lab File: VL037692.D
Acq: 27 Sep 2021 22:31

Tgt Ion	Ratio	Lower	Upper
57	100		
41	118.1	70.9	106.3#
43	99.2	170.4	255.6#
56	65.9	42.6	64.0#





#27

Carbon Disulfide

Concen: 0.578 ppbv m

RT: 4.56 min Scan# 551

Delta R.T. 0.02 min

Lab File: VL037692.D

Acq: 27 Sep 2021 22:31

Instrument :

MSVOA_L

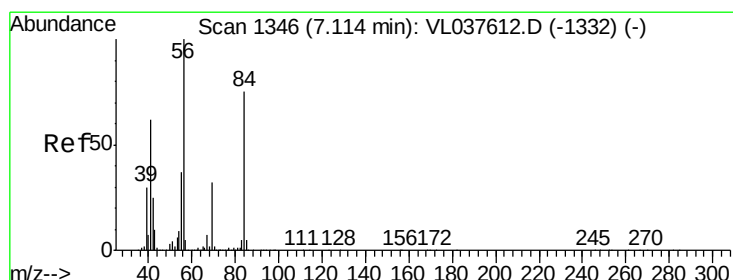
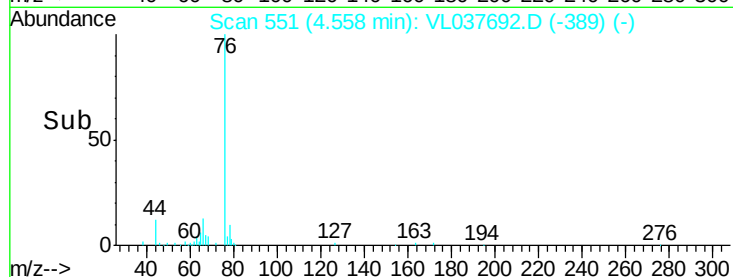
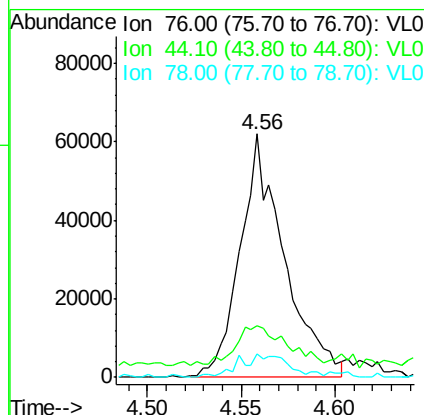
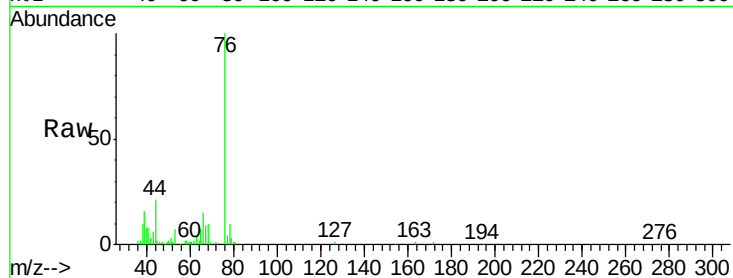
ClientSampleId :

SV4

Tgt Ion:	76	Resp:	100911
Ion Ratio	Lower	Upper	
76	100		
44	23.3	14.2	21.2#
78	12.3	7.4	11.0#

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#30

Cyclohexane

Concen: 1.734 ppbv

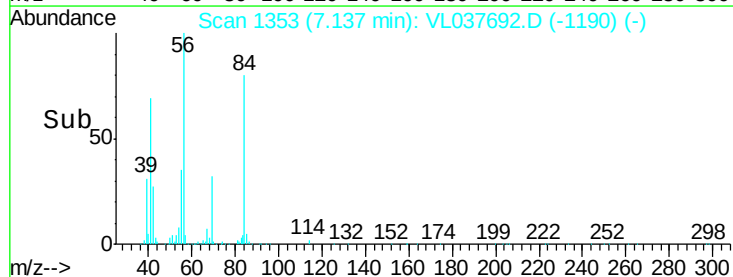
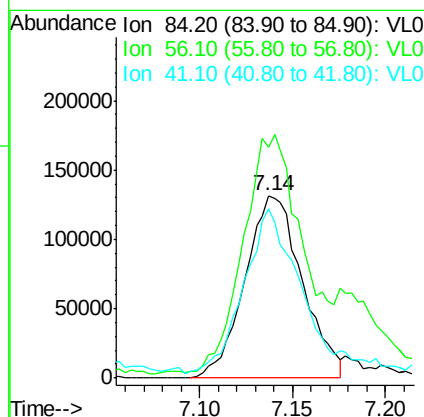
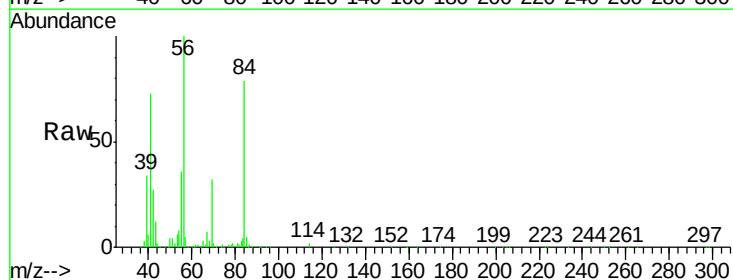
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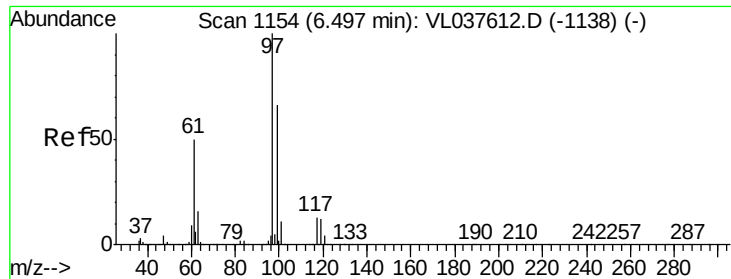
Delta R.T. 0.02 min

Lab File: VL037692.D

Acq: 27 Sep 2021 22:31

Tgt Ion:	84	Resp:	283215
Ion Ratio	Lower	Upper	
84	100		
56	170.1	113.6	170.4
41	88.0	67.9	101.9





#32

1,1,1-Trichloroethane

Concen: 0.162 ppbv

RT: 6.52 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VL037692.D

Acq: 27 Sep 2021 22:31

Instrument :

MSVOA_L

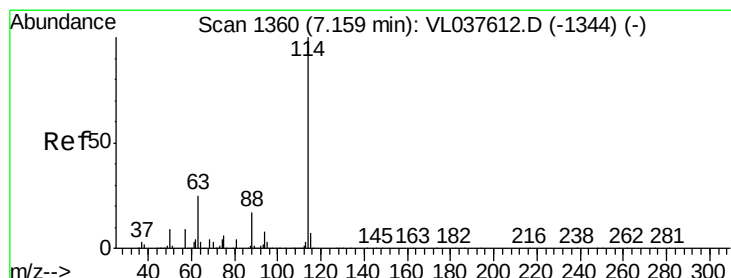
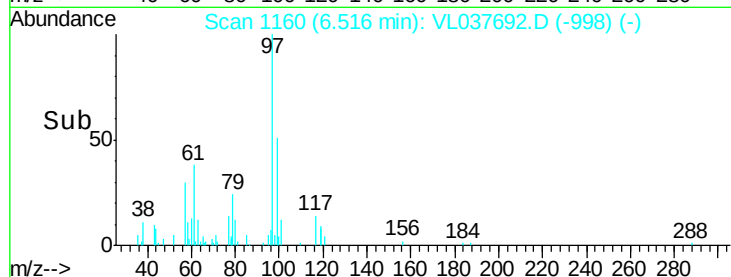
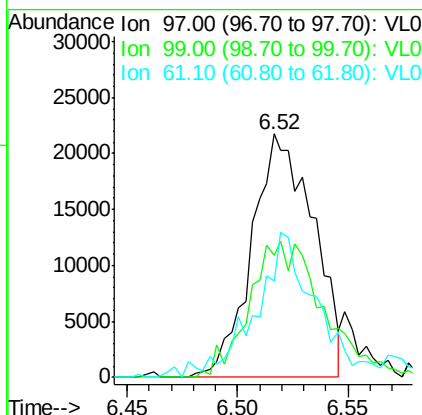
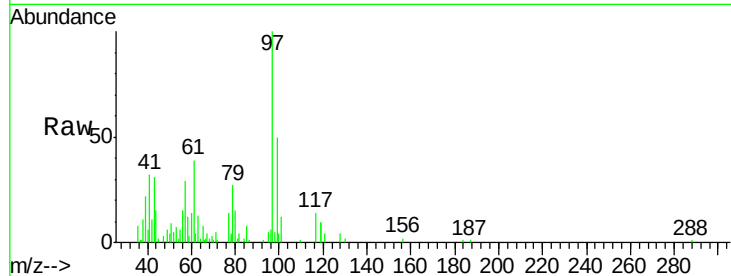
ClientSampled :

SV4

Tgt Ion:	97	Resp:	42165
Ion	Ratio	Lower	Upper
97	100		
99	67.4	52.3	78.5
61	58.9	39.5	59.3

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

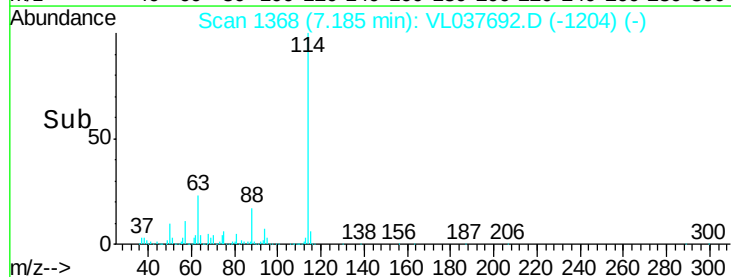
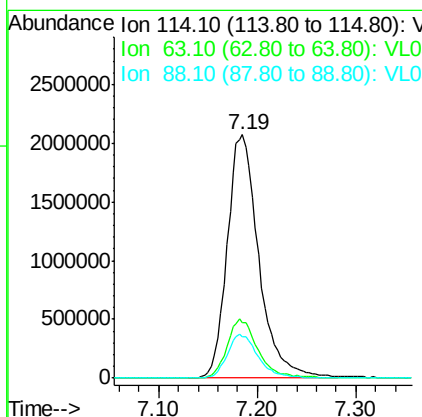
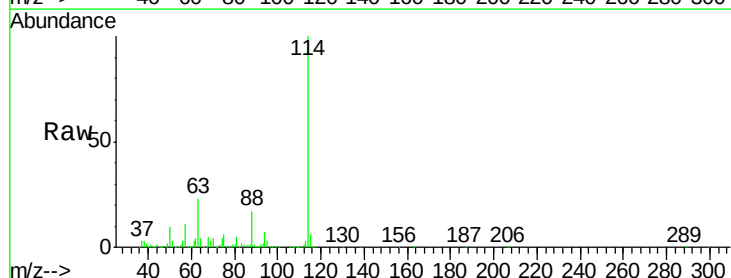
RT: 7.19 min Scan# 1368

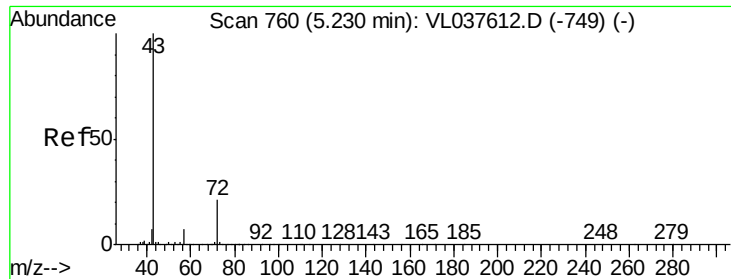
Delta R.T. 0.03 min

Lab File: VL037692.D

Acq: 27 Sep 2021 22:31

Tgt Ion:	114	Resp:	4634907
Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.6	29.4
88	17.8	14.2	21.4





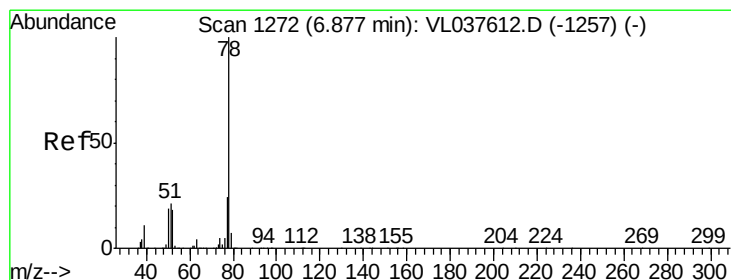
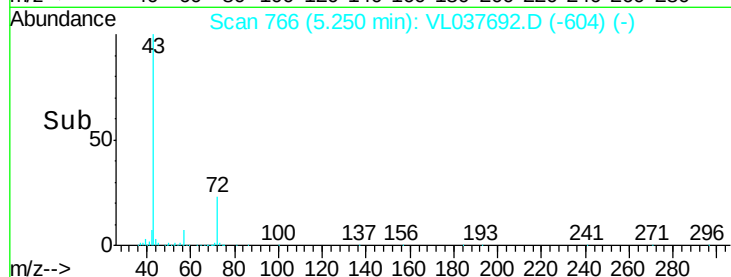
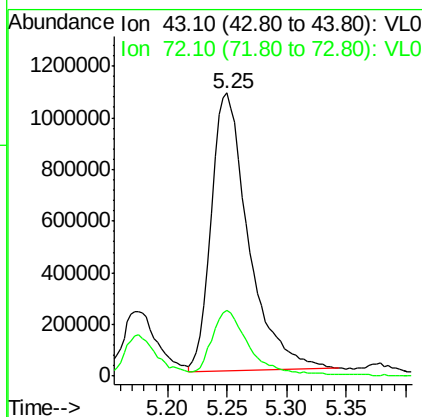
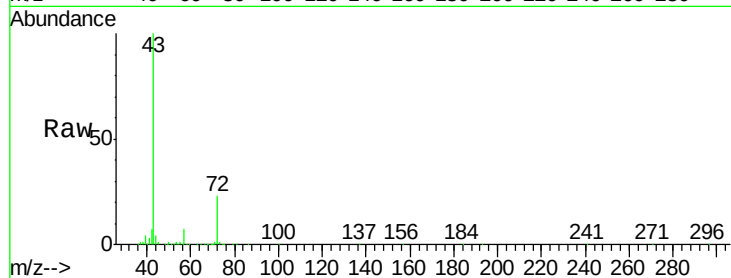
#34
2-Butanone
Concen: 12.412 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL037692.D
Acq: 27 Sep 2021 22:31

Instrument :
MSVOA_L
ClientSampled :
SV4

Tgt Ion: 43 Resp: 2337898
Ion Ratio Lower Upper
43 100
72 24.4 18.4 27.6

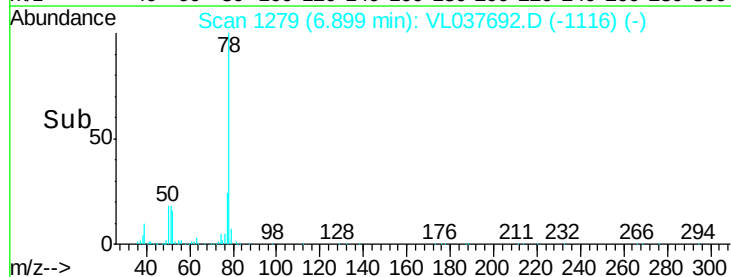
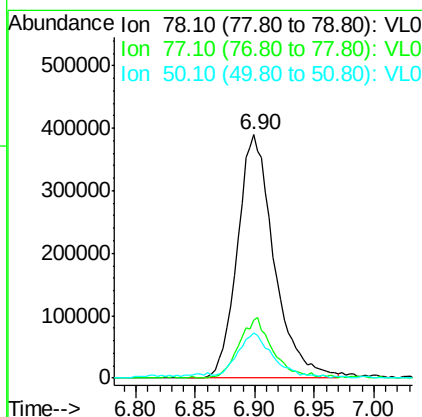
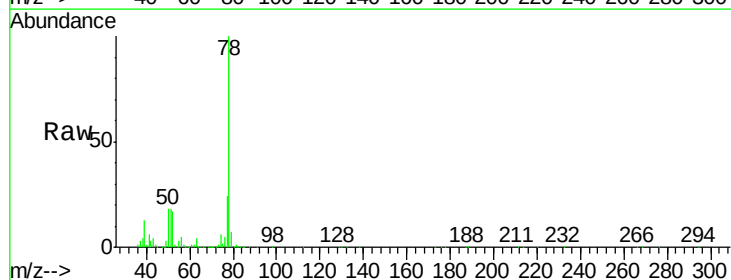
Manual Integrations
APPROVED

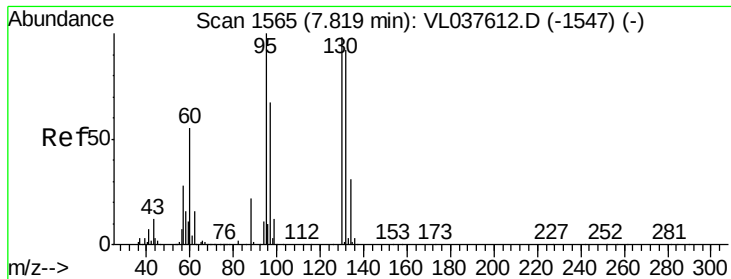
MMDadoda
10/1/2021 11:05:30 AM



#36
Benzene
Concen: 2.149 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.02 min
Lab File: VL037692.D
Acq: 27 Sep 2021 22:31

Tgt Ion: 78 Resp: 830517
Ion Ratio Lower Upper
78 100
77 23.5 19.0 28.4
50 17.9 14.8 22.2





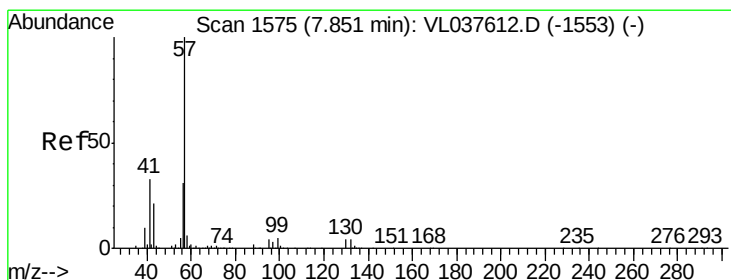
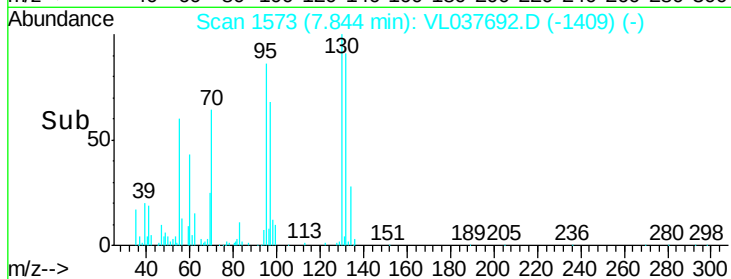
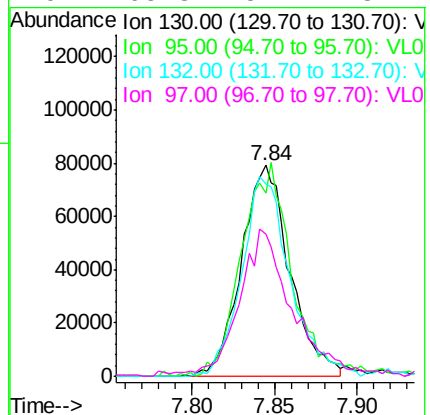
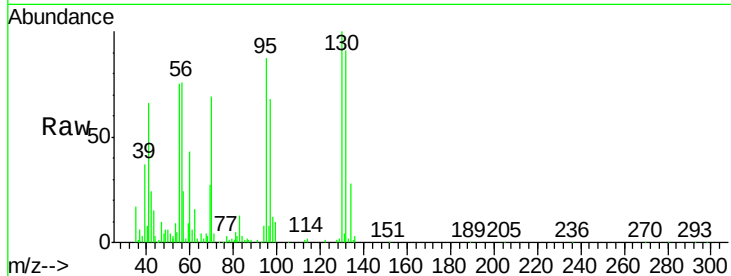
#38
 Trichloroethene
 Concen: 0.997 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.03 min
 Lab File: VL037692.D
 Acq: 27 Sep 2021 22:31

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	160934		
95	84.5	81.8	122.6	
132	91.3	75.3	112.9	
97	65.3	54.7	82.1	

Manual Integrations
 APPROVED

MMDadoda
 10/1/2021 11:05:30 AM



#44
 2,2,4-Trimethylpentane
 Concen: 0.458 ppbv m
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.02 min
 Lab File: VL037692.D
 Acq: 27 Sep 2021 22:31

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	297421		
41	205.9	26.1	39.1#	
56	301.7	25.7	38.5#	

