

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035634.D
 Acq On : 16 Sep 2020 18:25
 Operator : SY/AP
 Sample : L4026-02DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-02DL

Quant Time: Sep 17 07:08:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1271033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4950123	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4896060	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3609412	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

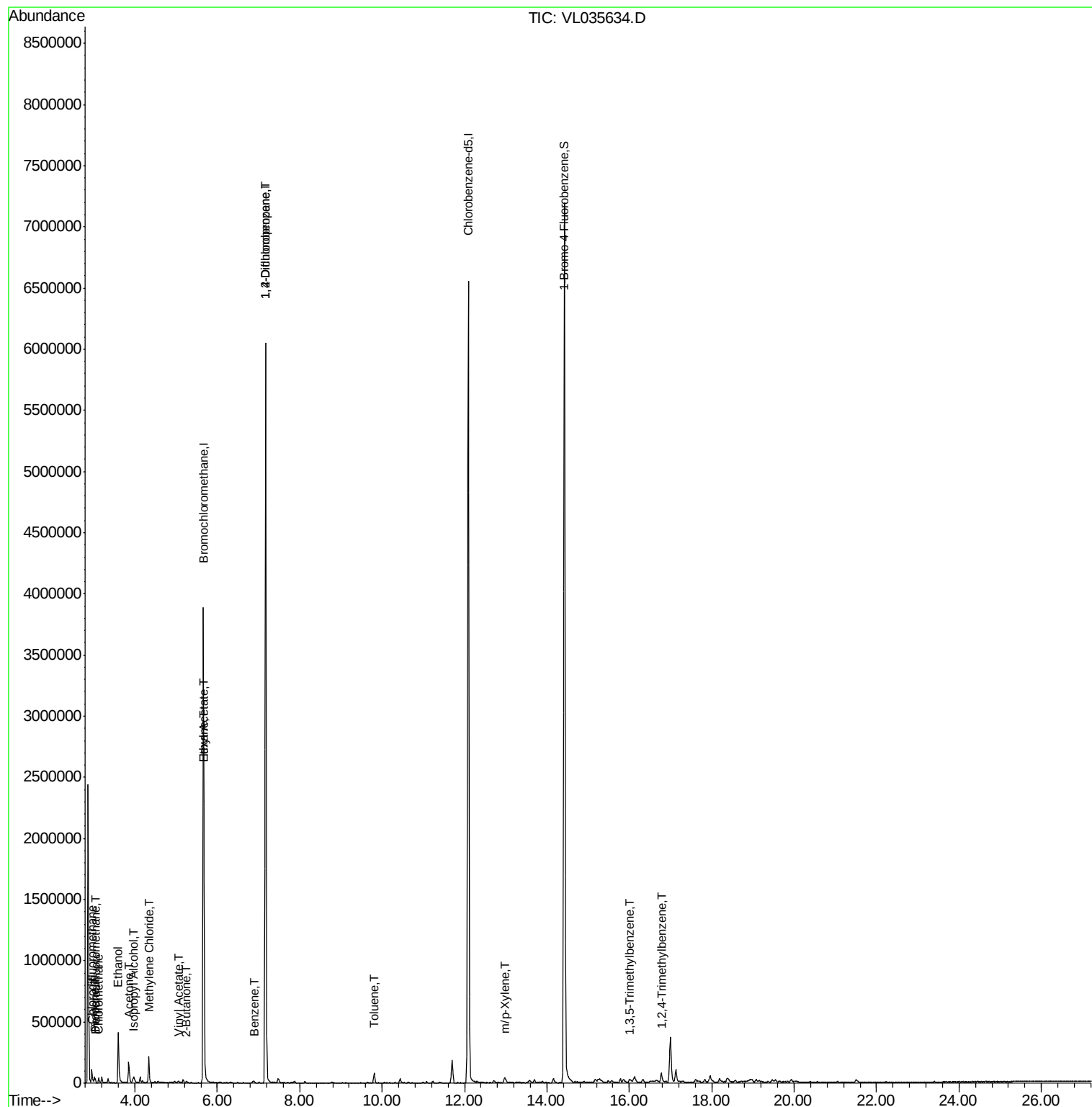
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	24043	0.109	ppbv	94
3) Chlorodifluoromethane	2.95	51	77435	0.551	ppbv #	64
4) Chloromethane	3.13	50	9138	0.121	ppbv #	86
9) Propene	3.01	41	10498	0.194	ppbv	83
13) Ethanol	3.59	45	417218	31.050	ppbv	96
15) Acetone	3.85	43	153171	1.093	ppbv	99
19) Isopropyl Alcohol	3.97	45	54621	0.653	ppbv #	88
20) Methylene Chloride	4.34	84	92438	0.885	ppbv	96
23) Vinyl Acetate	5.06	43	8844	0.049	ppbv #	79
25) Ethyl Acetate	5.68	43	21756	0.088	ppbv #	80
26) Hexane	5.68	57	30857	0.220	ppbv #	53
34) 2-Butanone	5.24	43	4809	0.033	ppbv #	40
36) Benzene	6.88	78	9644	0.030	ppbv #	83
39) 1,2-Dichloropropane	7.17	63	956754	8.839	ppbv #	32
53) Toluene	9.81	91	67184	0.167	ppbv	98
59) m/p-Xylene	12.97	91	35503	0.084	ppbv #	83
73) 1,3,5-Trimethylbenzene	16.00	105	17465	0.035	ppbv	94
74) 1,2,4-Trimethylbenzene	16.78	105	48836	0.089	ppbv #	70

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

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QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-02DL

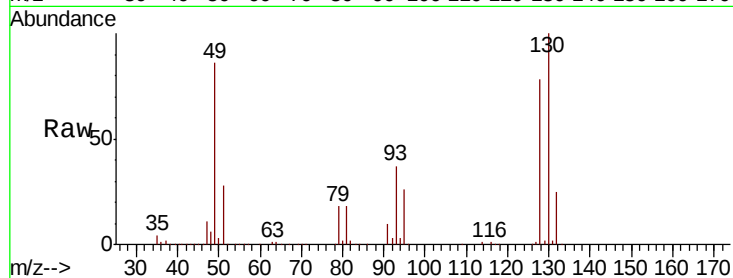
Tot Ion: 49 Resp: 1271033

Ion Ratio Lower Upper

49 100

128 89.7 50.0 150.1

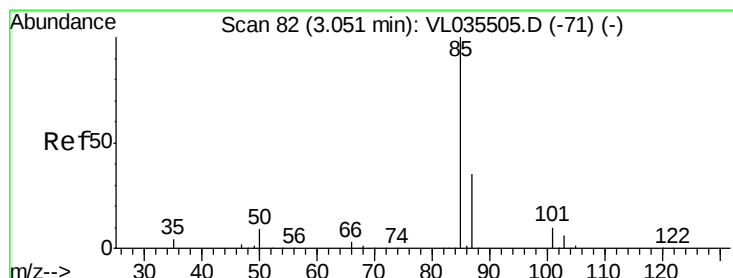
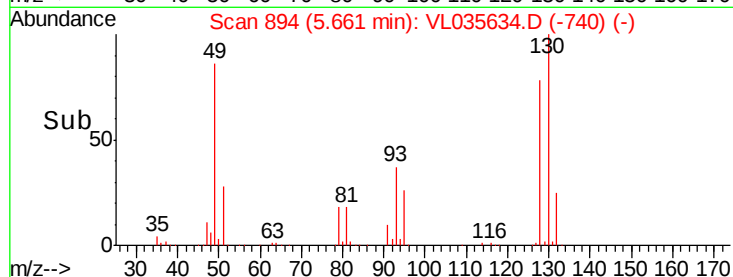
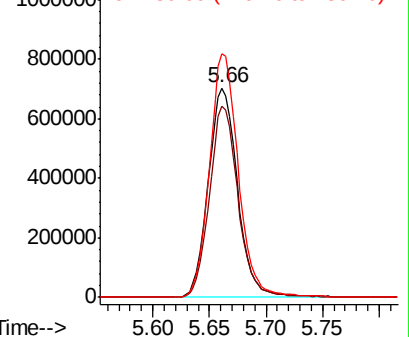
130 115.5 64.4 193.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.109 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL035634.D

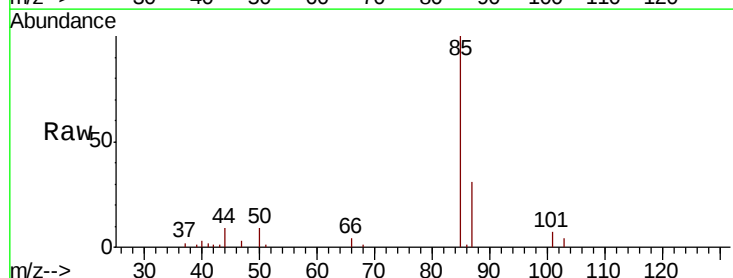
Acq: 16 Sep 2020 18:25

Tgt Ion: 85 Resp: 24043

Ion Ratio Lower Upper

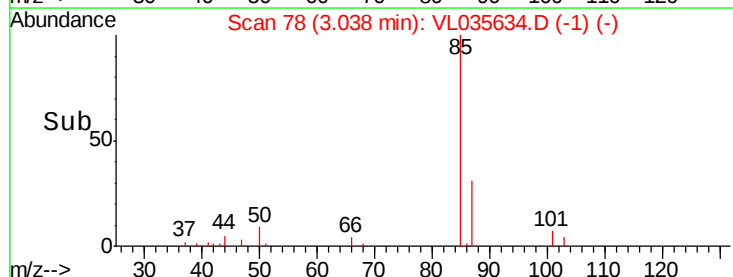
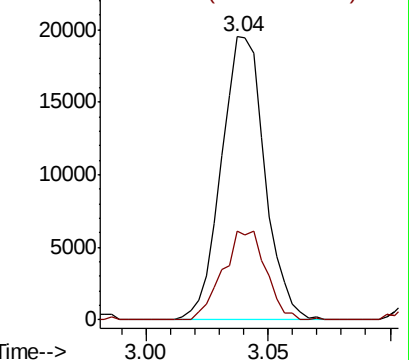
85 100

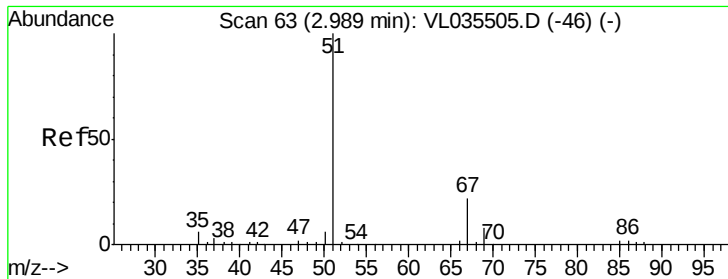
87 31.2 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.551 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.02 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

Instrument :

MSVOA_L

ClientSampleId :

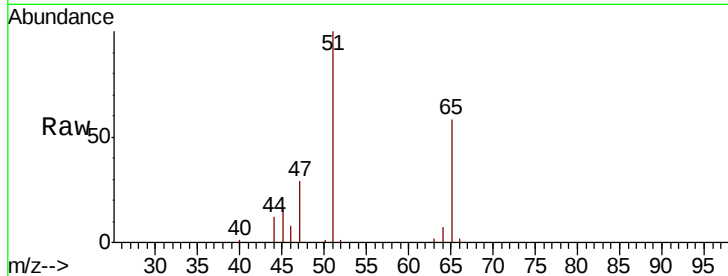
TRC-IA-02DL

Tot Ion: 51 Resp: 77435

Ion Ratio Lower Upper

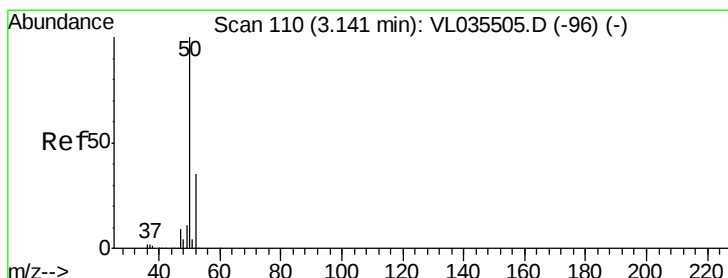
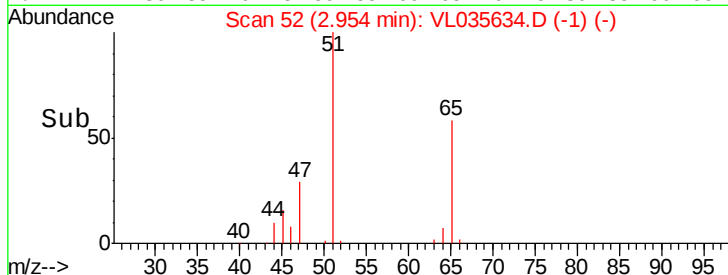
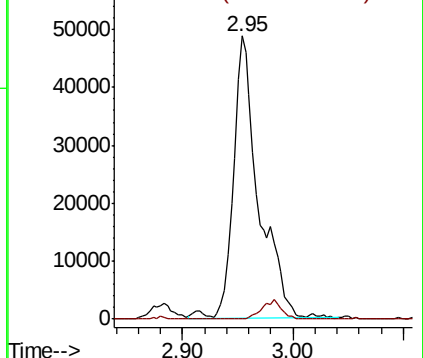
51 100

67 5.3 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.121 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL035634.D

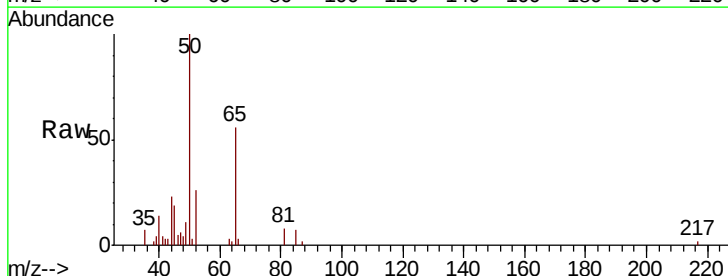
Acq: 16 Sep 2020 18:25

Tgt Ion: 50 Resp: 9138

Ion Ratio Lower Upper

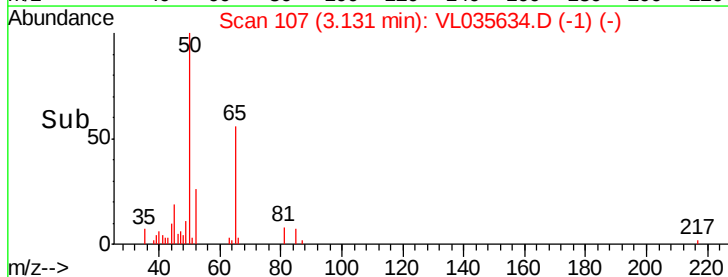
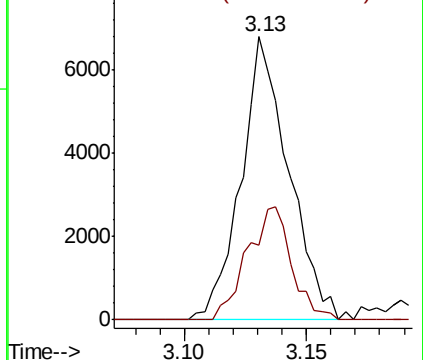
50 100

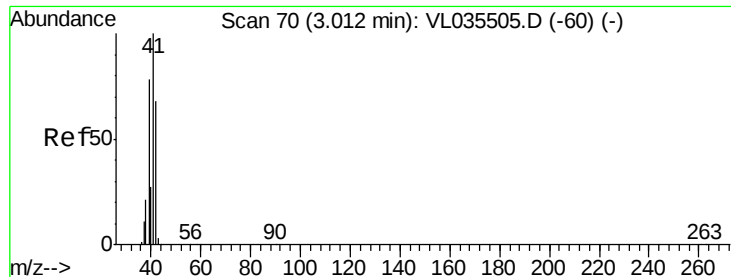
52 26.3 27.7 41.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.194 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

Instrument :

MSVOA_L

ClientSampleId :

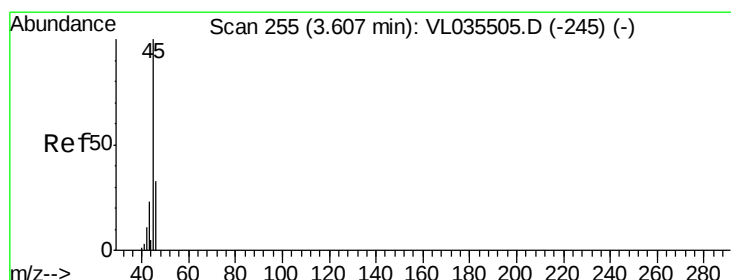
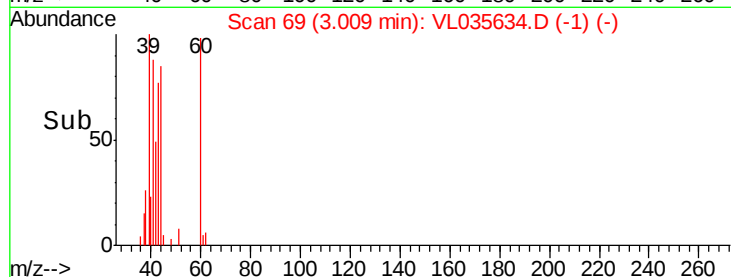
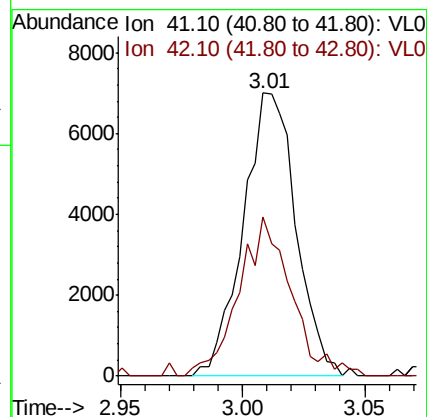
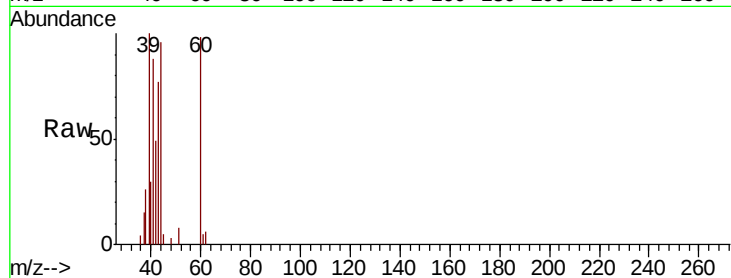
TRC-IA-02DL

Tot Ion: 41 Resp: 10498

Ion Ratio Lower Upper

41 100

42 56.4 56.3 84.5



#13

Ethanol

Concen: 31.050 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.00 min

Lab File: VL035634.D

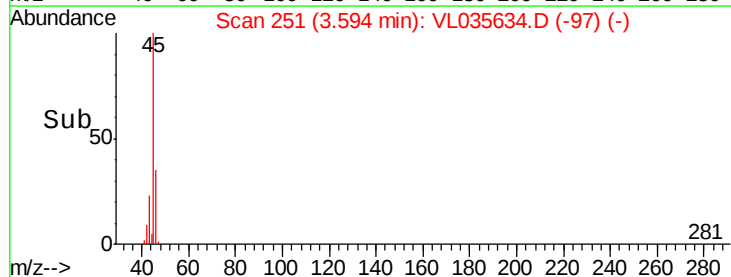
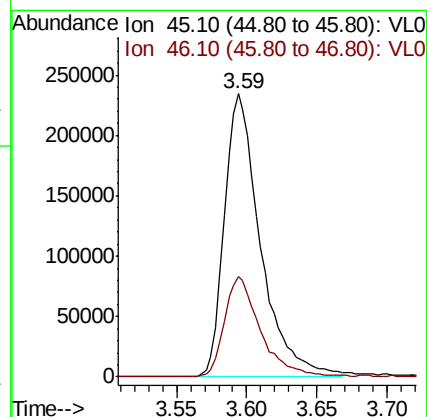
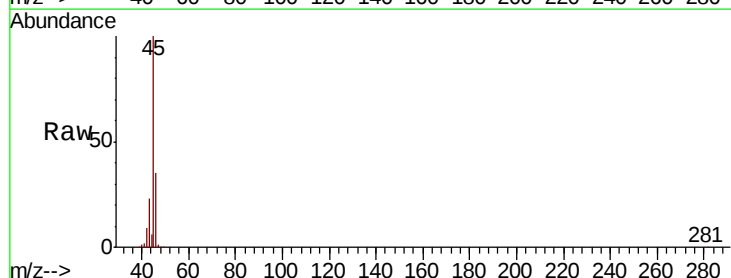
Acq: 16 Sep 2020 18:25

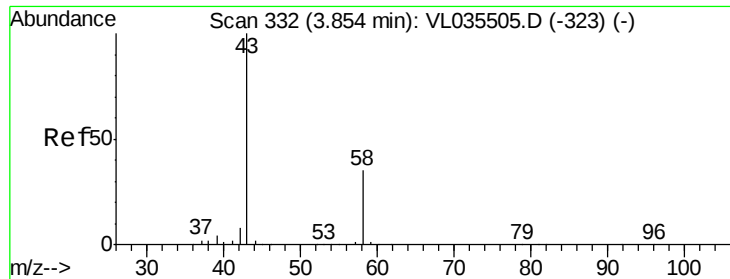
Tgt Ion: 45 Resp: 417218

Ion Ratio Lower Upper

45 100

46 35.7 15.2 60.6





#15

Acetone

Concen: 1.093 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

Instrument :

MSVOA_L

ClientSampleId :

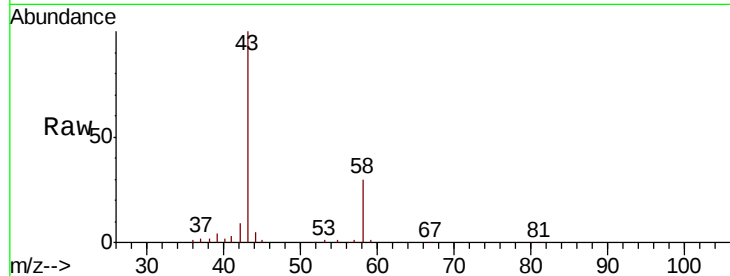
TRC-IA-02DL

Tot Ion: 43 Resp: 153171

Ion Ratio Lower Upper

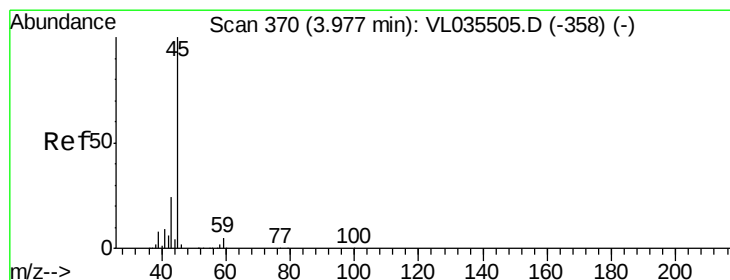
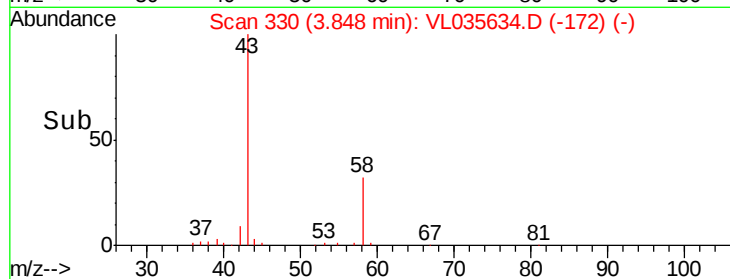
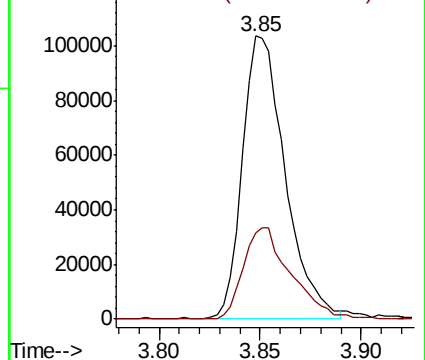
43 100

58 36.3 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.653 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL035634.D

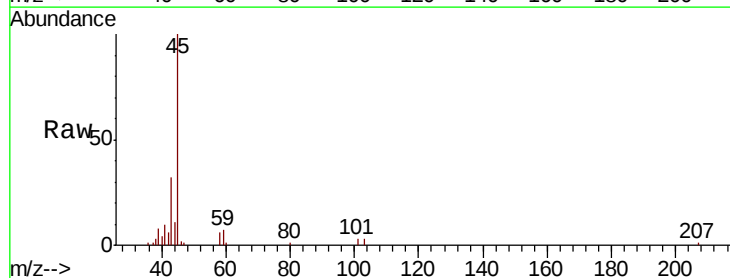
Acq: 16 Sep 2020 18:25

Tgt Ion: 45 Resp: 54621

Ion Ratio Lower Upper

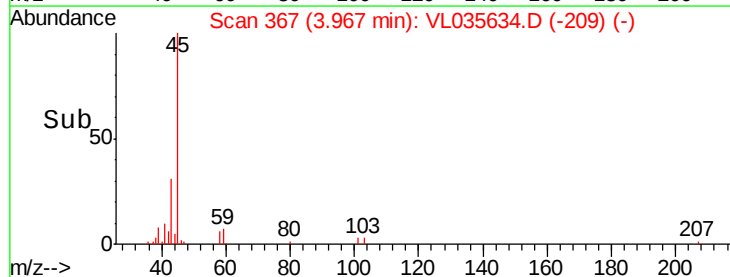
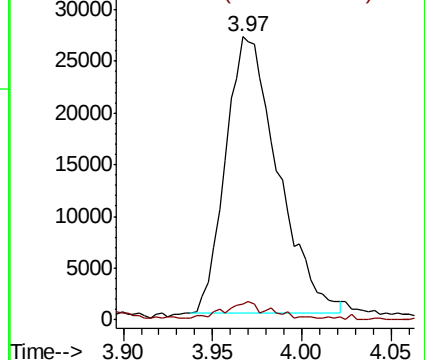
45 100

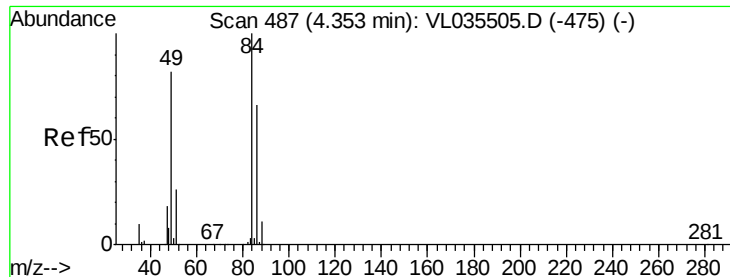
58 6.5 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

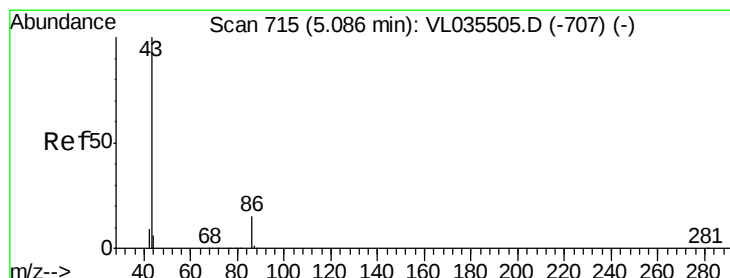
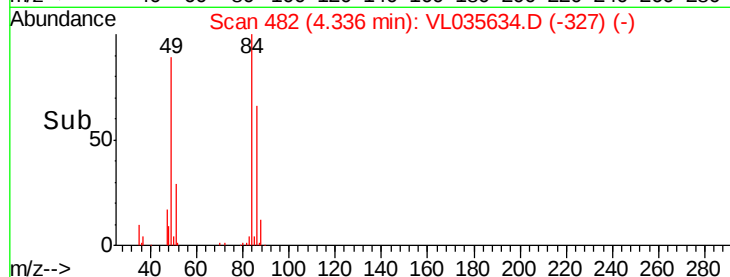
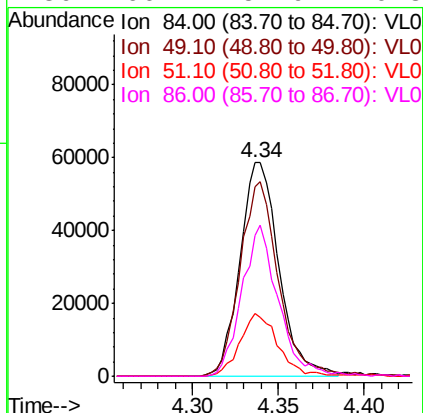
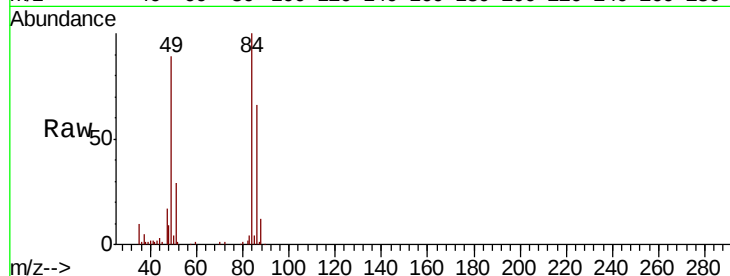




#20
Methylene Chloride
Concen: 0.885 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL035634.D
Acq: 16 Sep 2020 18:25

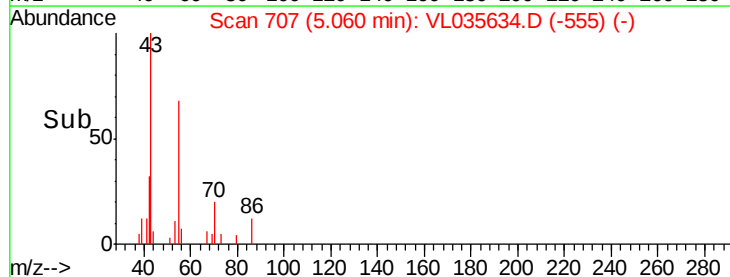
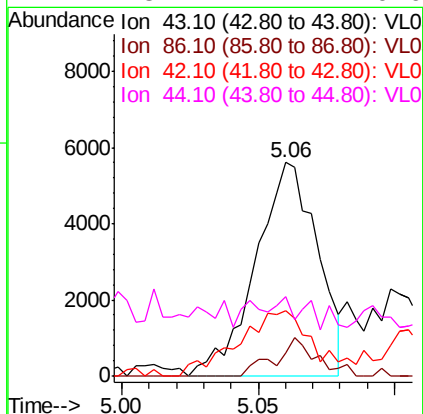
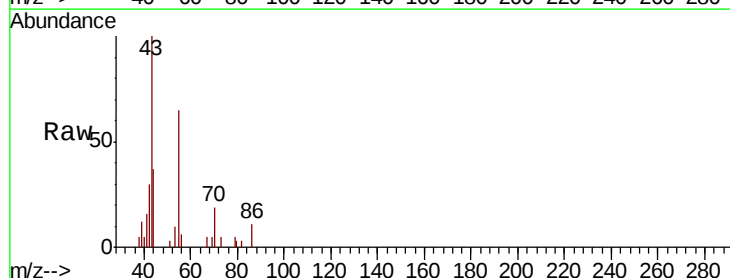
Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DL

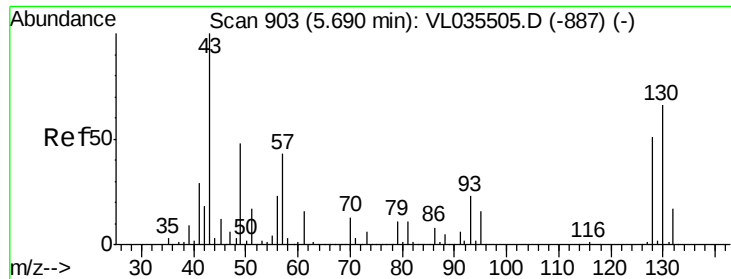
Tot Ion:	84	Resp:	92438
Ion	Ratio	Lower	Upper
84	100		
49	88.5	65.4	98.0
51	29.3	21.5	32.3
86	66.2	52.9	79.3



#23
Vinyl Acetate
Concen: 0.049 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.01 min
Lab File: VL035634.D
Acq: 16 Sep 2020 18:25

Tgt Ion:	43	Resp:	8844
Ion	Ratio	Lower	Upper
43	100		
86	11.1	10.6	16.0
42	25.0	7.5	11.3#
44	13.4	4.4	6.6#

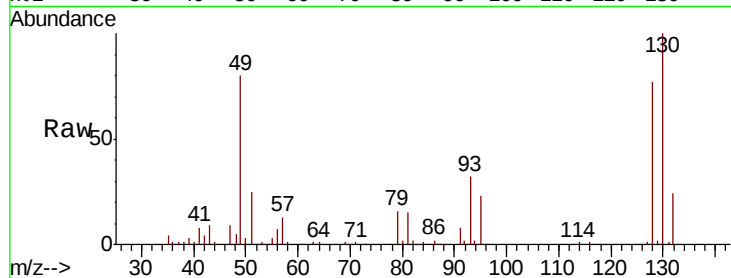




#25
Ethyl Acetate
Concen: 0.088 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL035634.D
Acq: 16 Sep 2020 18:25

Instrument :
MSVOA_L
ClientSampleID :
TRC-IA-02DL

Tot Ion:	43	Resp:	21756
Ion	Ratio	Lower	Upper
43	100		
45	5.8	8.4	12.6#
61	3.0	10.6	16.0#
70	3.8	9.4	14.2#



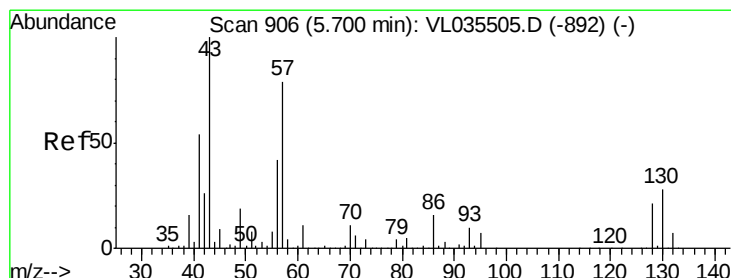
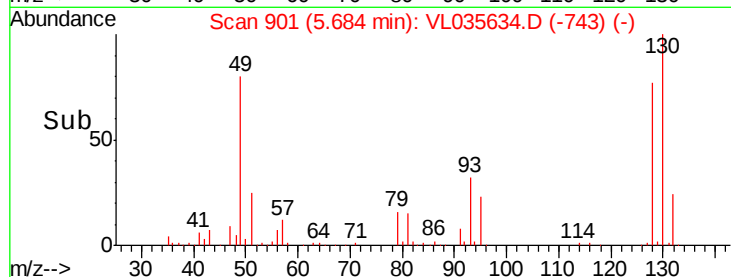
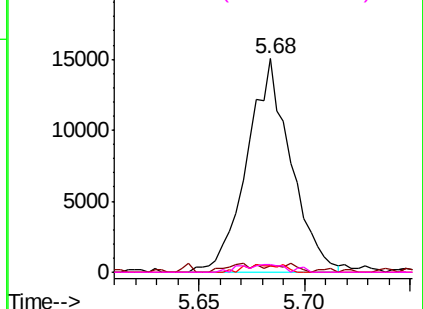
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

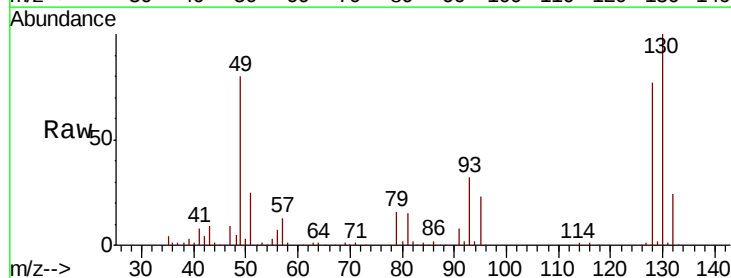
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.220 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035634.D
Acq: 16 Sep 2020 18:25

Tgt Ion:	57	Resp:	30857
Ion	Ratio	Lower	Upper
57	100		
41	74.5	55.9	83.9
43	71.9	141.8	212.8#
56	55.9	41.8	62.8



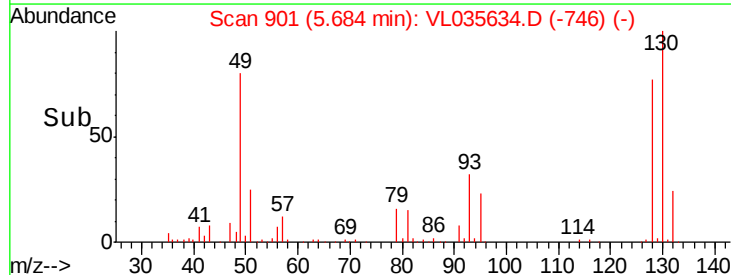
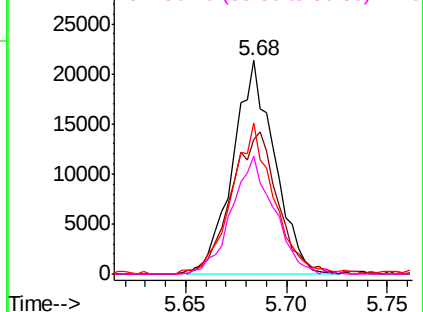
Abundance

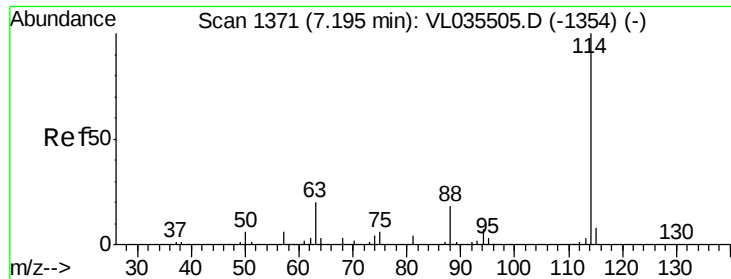
Ion 57.10 (56.80 to 57.80): VL0

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

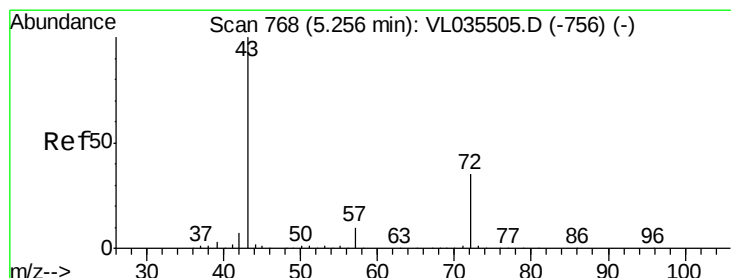
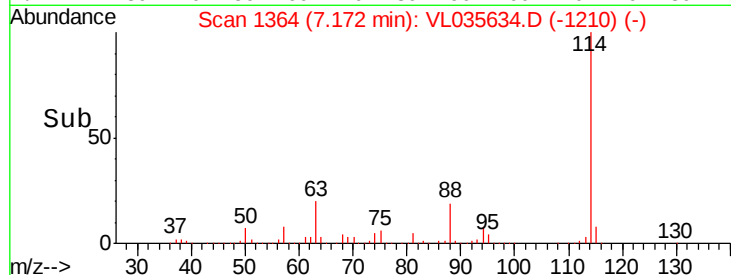
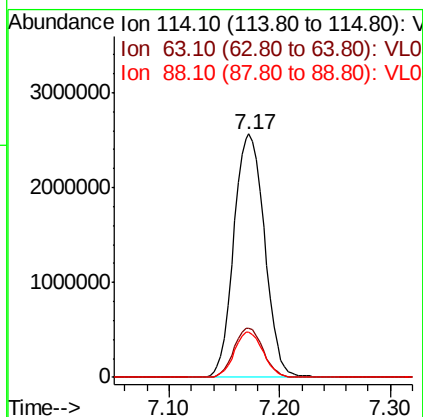
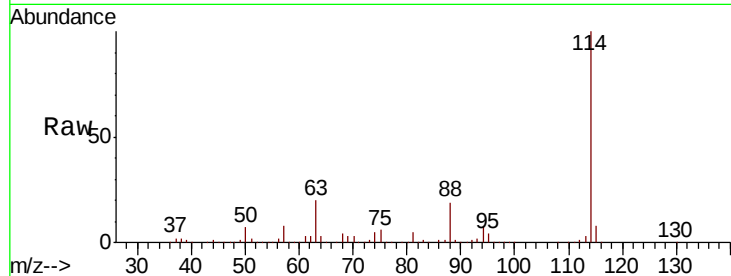




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL035634.D
 Acq: 16 Sep 2020 18:25

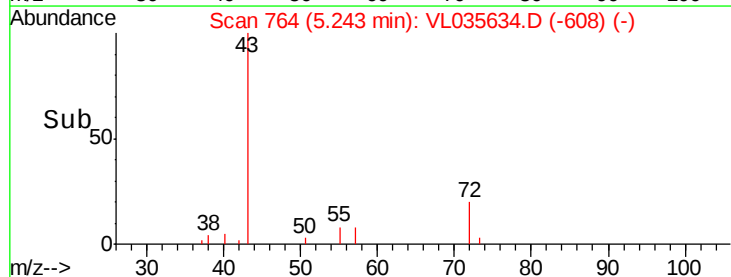
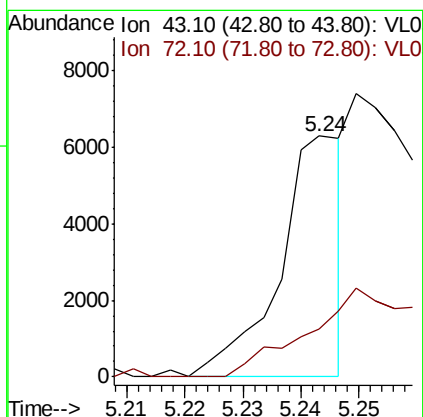
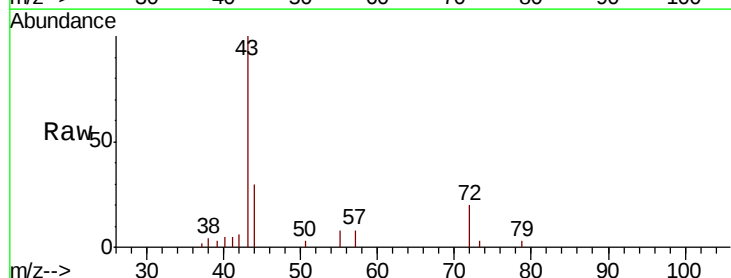
Instrument :
 MSVOA_L
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 TRC-IA-02DL

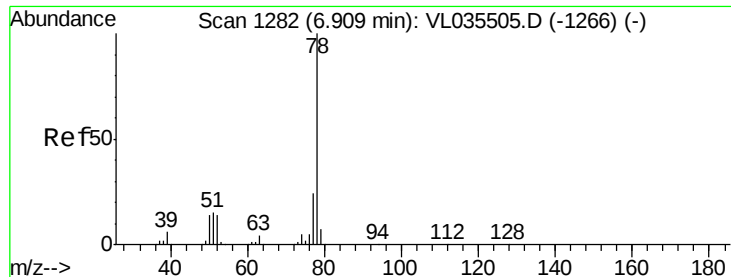
Tot Ion:114 Resp: 4950123
 Ion Ratio Lower Upper
 114 100
 63 19.4 14.7 22.1
 88 17.5 13.4 20.2



#34
 2-Butanone
 Concen: 0.033 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.00 min
 Lab File: VL035634.D
 Acq: 16 Sep 2020 18:25

Tgt Ion: 43 Resp: 4809
 Ion Ratio Lower Upper
 43 100
 72 0.0 27.7 41.5#





#36

Benzene

Concen: 0.030 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-02DL

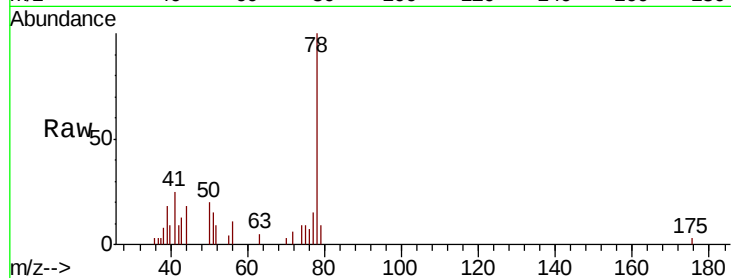
Tot Ion: 78 Resp: 9644

Ion Ratio Lower Upper

78 100

77 14.6 19.3 28.9#

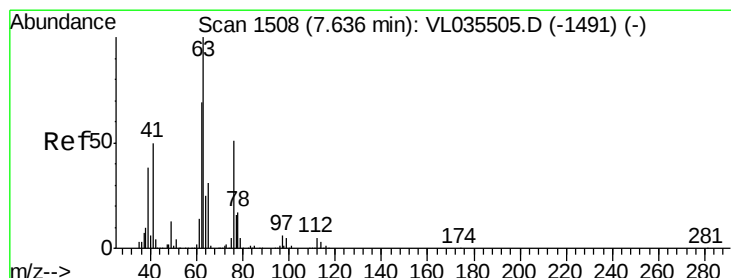
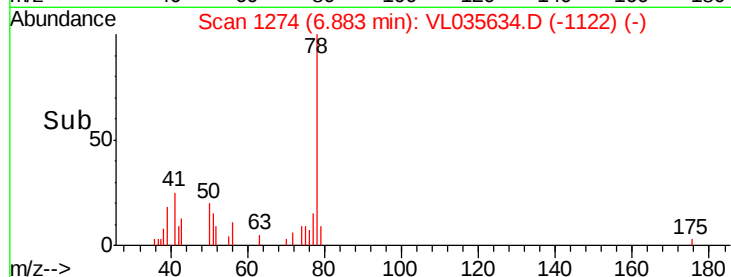
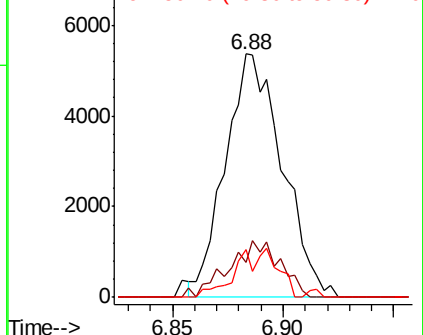
50 19.6 11.0 16.6#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.839 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

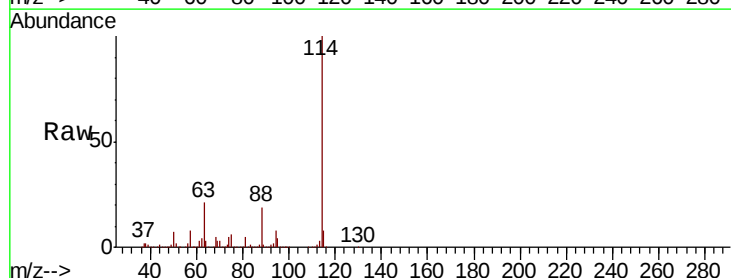
Tgt Ion: 63 Resp: 956754

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

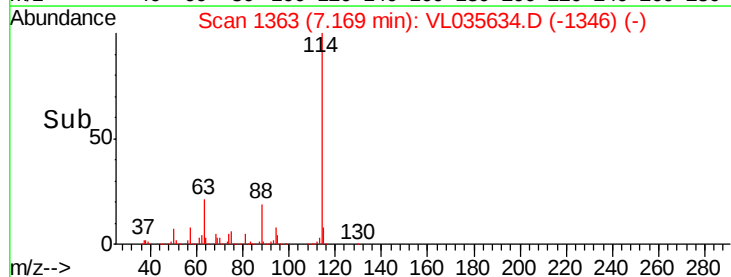
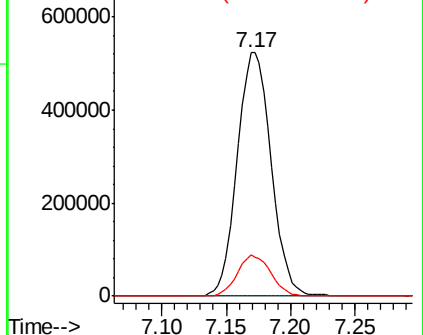
62 17.0 55.4 83.0#

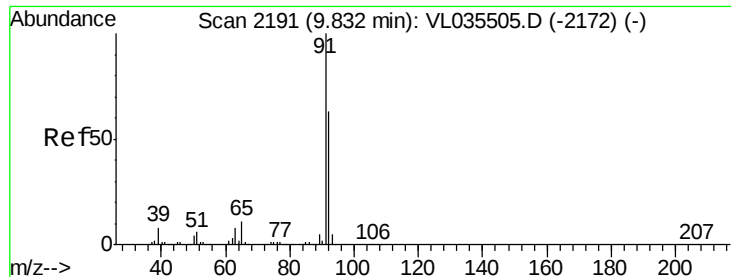


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.167 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

Instrument :

MSVOA_L

ClientSampleId :

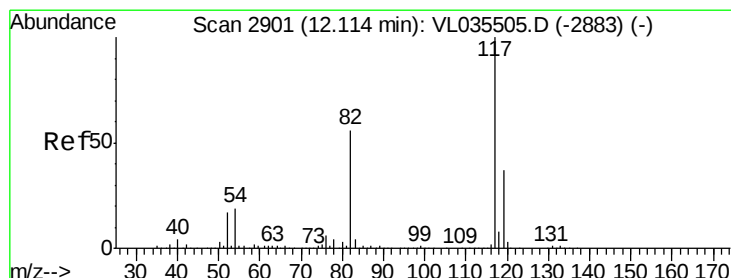
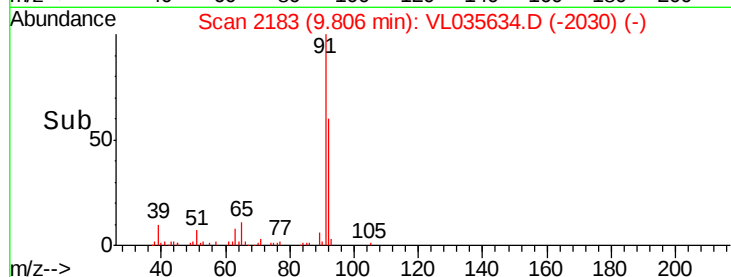
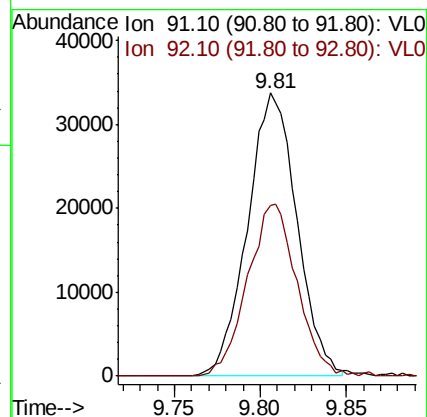
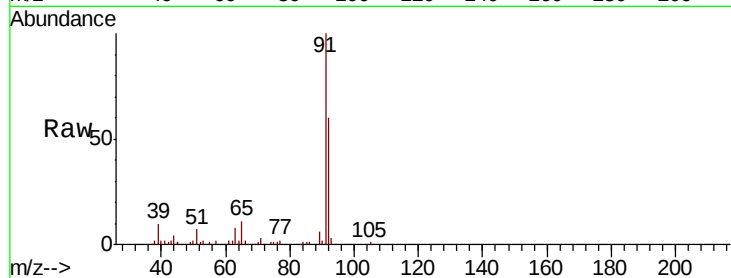
TRC-IA-02DL

Tot Ion: 91 Resp: 67184

Ion Ratio Lower Upper

91 100

92 61.0 49.8 74.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

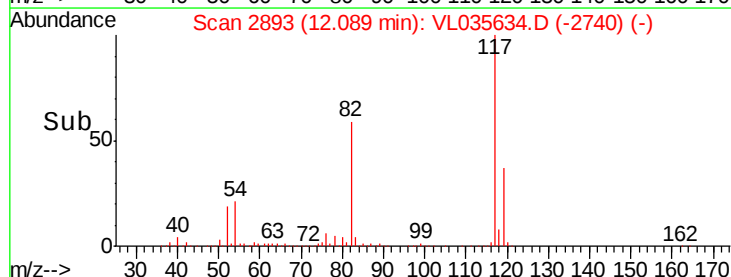
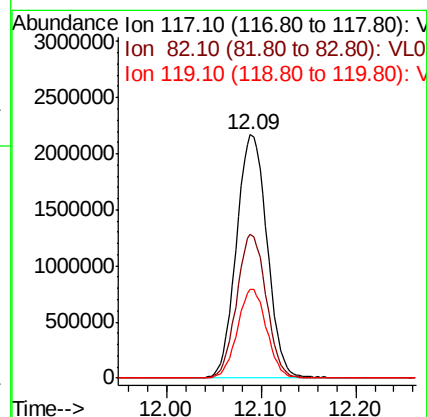
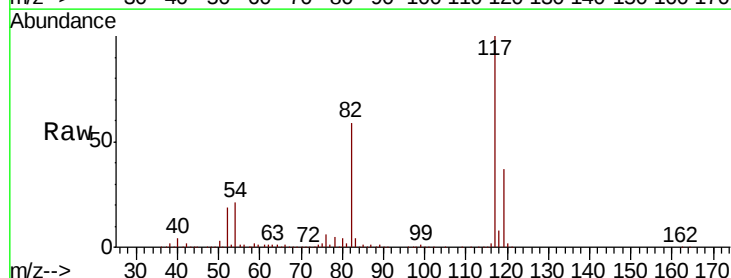
Tgt Ion: 117 Resp: 4896060

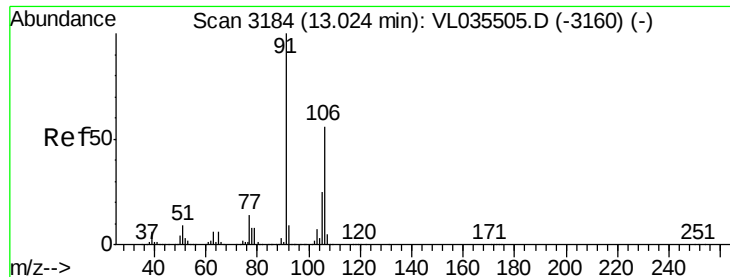
Ion Ratio Lower Upper

117 100

82 57.2 41.6 62.4

119 35.0 29.3 43.9





#59

m/p-Xylene

Concen: 0.084 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.04 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

Instrument :

MSVOA_L

ClientSampleId :

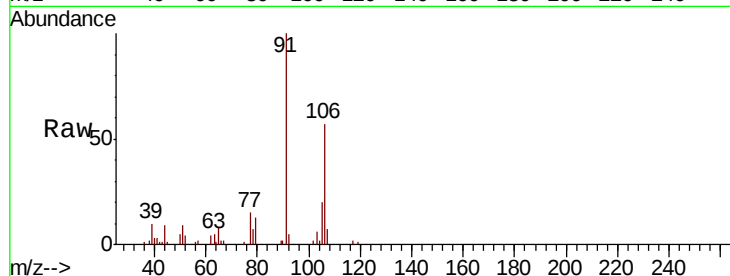
TRC-IA-02DL

Tot Ion: 91 Resp: 35503

Ion Ratio Lower Upper

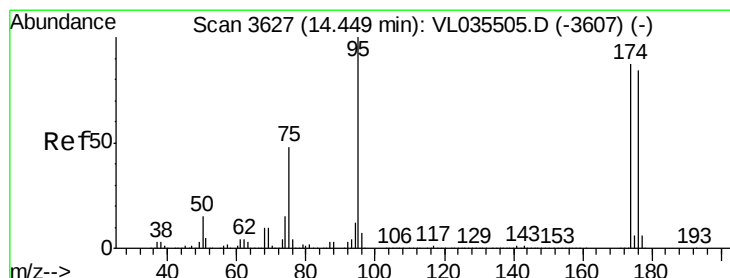
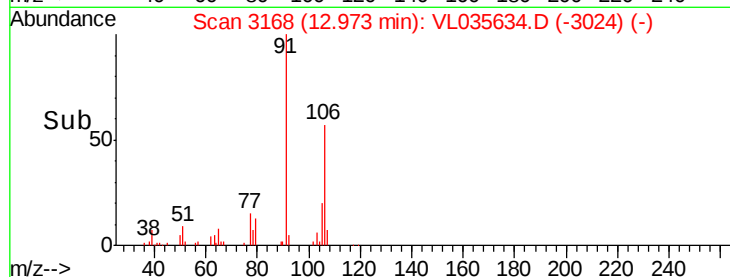
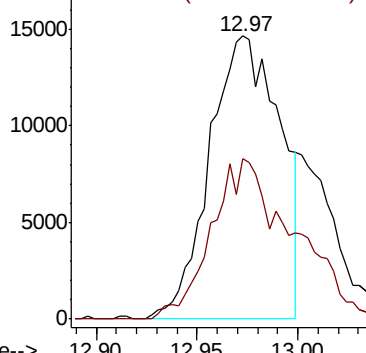
91 100

106 66.5 43.4 65.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.381 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL035634.D

Acq: 16 Sep 2020 18:25

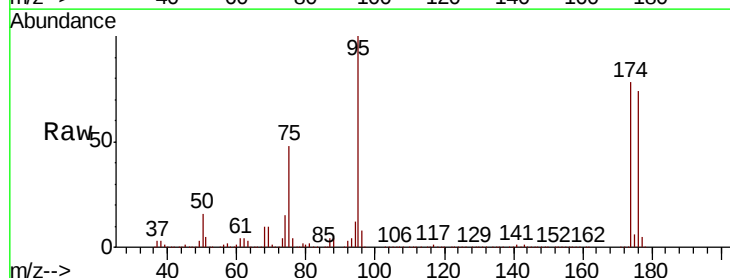
Tgt Ion: 95 Resp: 3609412

Ion Ratio Lower Upper

95 100

174 79.3 69.6 104.4

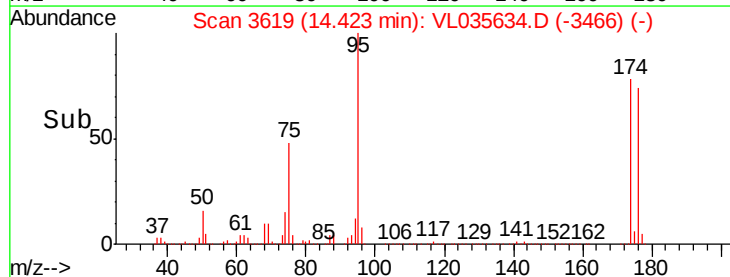
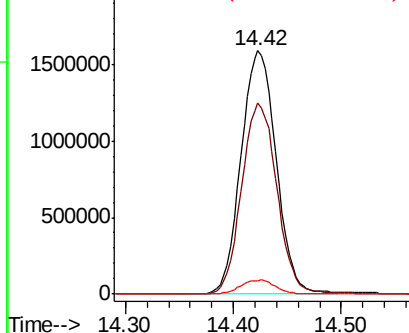
175 5.8 5.1 7.7

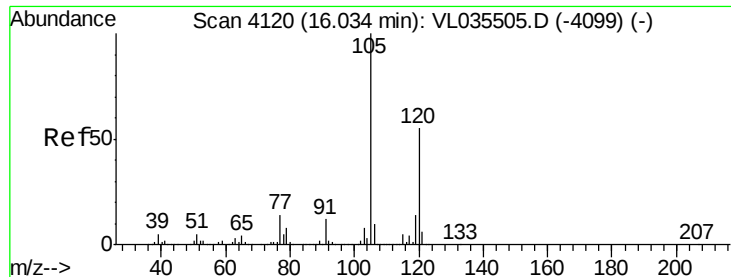


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

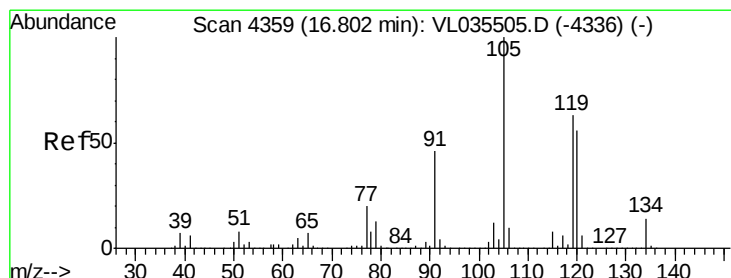
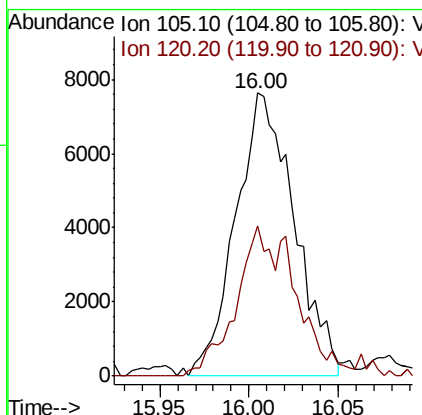
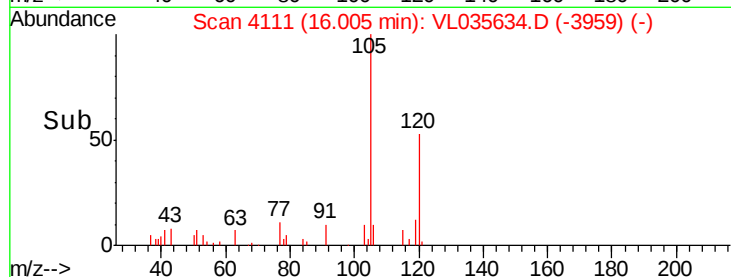
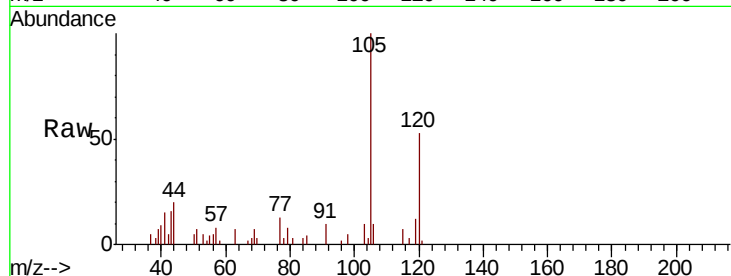




#73
 1,3,5-Trimethylbenzene
 Concen: 0.035 ppbv
 RT: 16.00 min Scan# 4111
 Delta R.T. -0.01 min
 Lab File: VL035634.D
 Acq: 16 Sep 2020 18:25

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-02DL

Tot Ion:105 Resp: 17465
 Ion Ratio Lower Upper
 105 100
 120 50.9 44.2 66.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.089 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL035634.D
 Acq: 16 Sep 2020 18:25

Tgt Ion:105 Resp: 48836
 Ion Ratio Lower Upper
 105 100
 120 47.3 44.4 66.6
 91 8.1 37.1 55.7#
 77 11.3 16.0 24.0#

