

Data File : VL034752.D
Acq On : 29 Feb 2020 1:07
Operator : SY/AP
Sample : L1661-09DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-9-TROPHY-CASEDL

Quant Time: Mar 02 04:39:24 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1007300	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2134000	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2089760	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1750537	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	11590	0.073	ppbv #	69
3) Chlorodifluoromethane	2.92	51	84439	0.777	ppbv #	61
4) Chloromethane	3.10	50	1737	0.029	ppbv	93
7) Chloroethane	3.52	64	827	0.037	ppbv #	84
9) Propene	3.17	41	12812	0.282	ppbv	94
10) Heptane	8.13	43	5457	0.047	ppbv #	26
13) Ethanol	3.58	45	224523	15.641	ppbv	97
15) Acetone	3.83	43	244711	2.132	ppbv	98
16) 1,3-Butadiene	3.28	39	5421	0.102	ppbv #	13
17) tert-Butyl alcohol	4.29	59	50880	0.578	ppbv #	90
19) Isopropyl Alcohol	3.95	45	448697	6.563	ppbv	100
20) Methylene Chloride	4.32	84	23525	0.551	ppbv	92
23) Vinyl Acetate	5.05	43	4329	0.028	ppbv #	62
25) Ethyl Acetate	5.68	43	20532	0.101	ppbv #	87
26) Hexane	5.67	57	7971	0.085	ppbv #	1
34) 2-Butanone	5.24	43	10420	0.078	ppbv #	1
38) Trichloroethene	7.84	130	20858	0.294	ppbv #	84
39) 1,2-Dichloropropane	7.18	63	583546	7.958	ppbv #	24
41) Tetrahydrofuran	6.05	42	3518	0.050	ppbv #	36
53) Toluene	9.83	91	115673	0.590	ppbv	98
59) m/p-Xylene	13.03	91	9558	0.043	ppbv #	32
60) o-Xylene	13.73	91	5145	0.024	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.80	105	6878	0.027	ppbv #	31

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

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Operator : SY/AP

Sample : L1661-09DL 10X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

SG-9-TROPHY-CASEDL

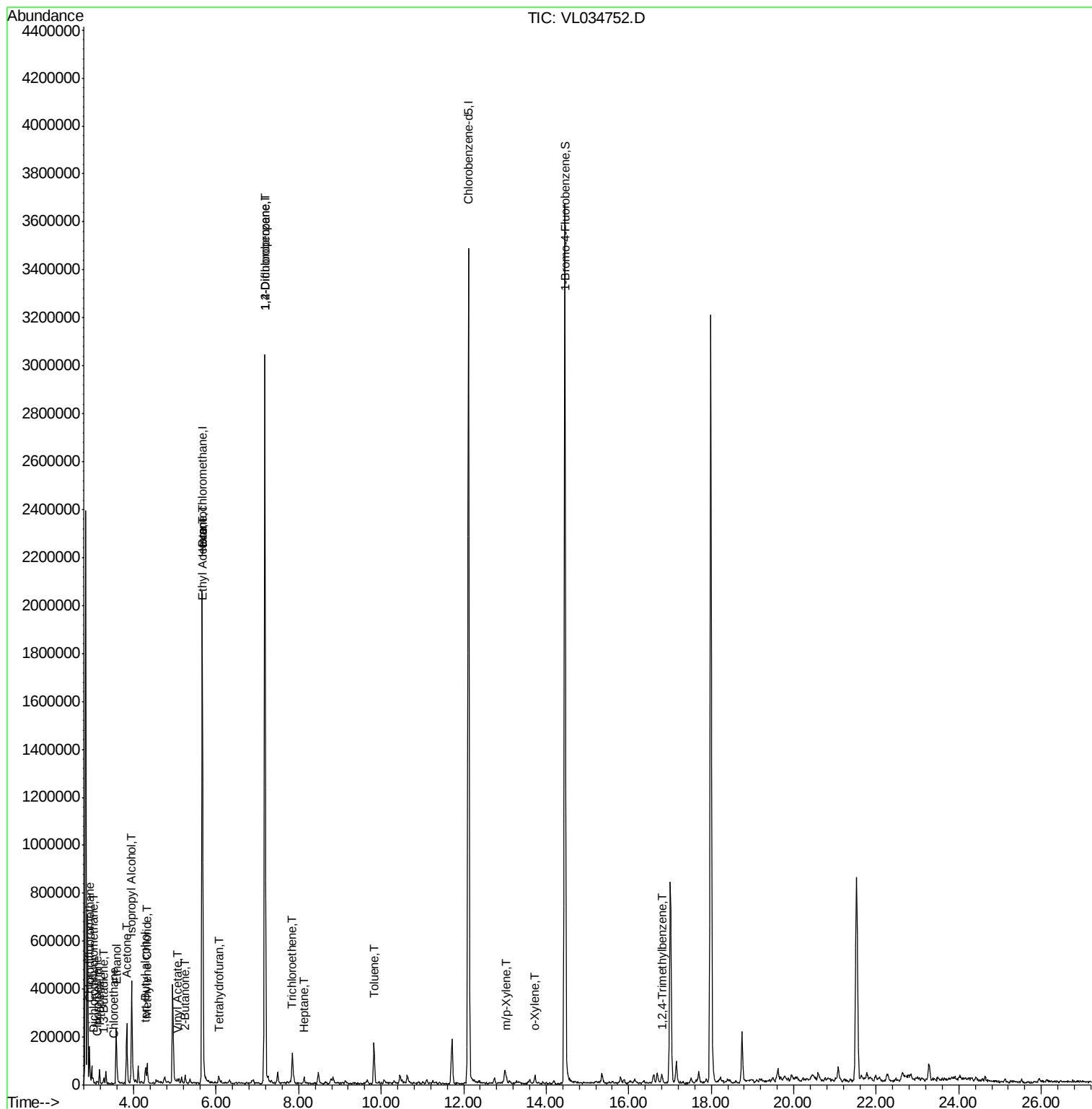
Quant Time: Mar 02 04:39:24 2020

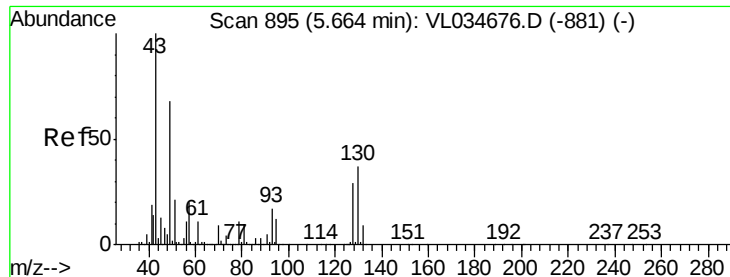
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020

QLast Update : Fri Feb 28 01:15:02 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: VL034752.D

Acq: 29 Feb 2020 1:07

Instrument :

MSVOA_L

ClientSampleId :

SG-9-TROPHY-CASEDL

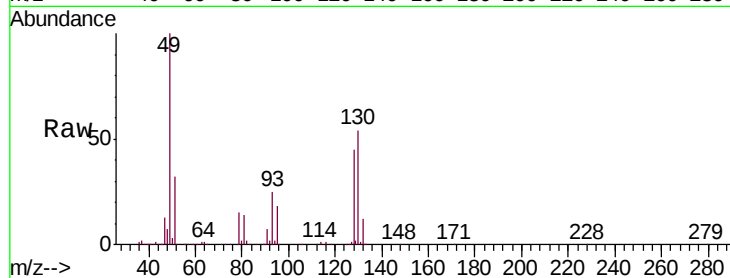
Tgt Ion: 49 Resp: 1007300

Ion Ratio Lower Upper

49 100

128 44.8 21.6 65.0

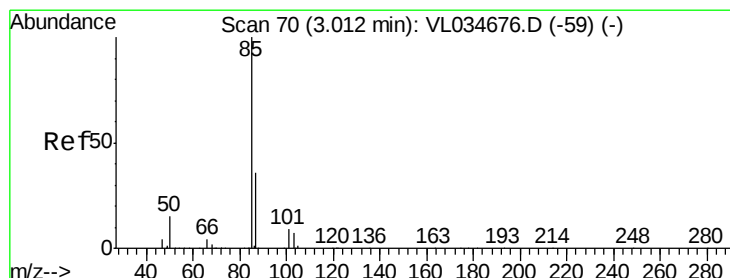
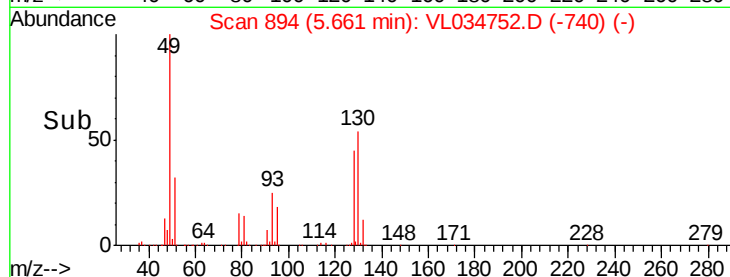
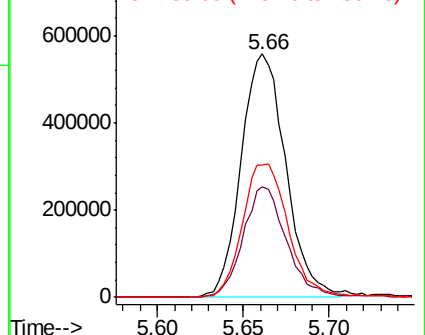
130 56.9 27.7 83.1



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



#2

Dichlorodifluoromethane

Concen: 0.073 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034752.D

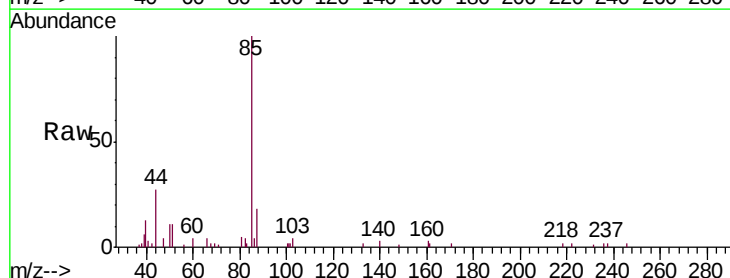
Acq: 29 Feb 2020 1:07

Tgt Ion: 85 Resp: 11590

Ion Ratio Lower Upper

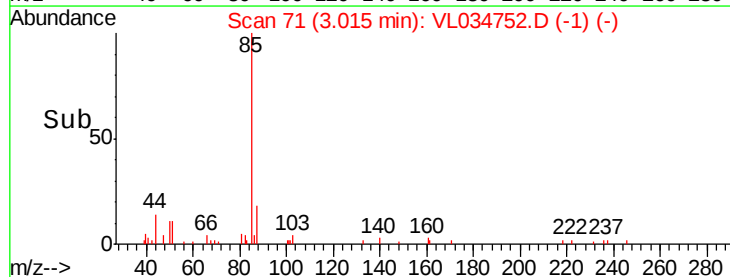
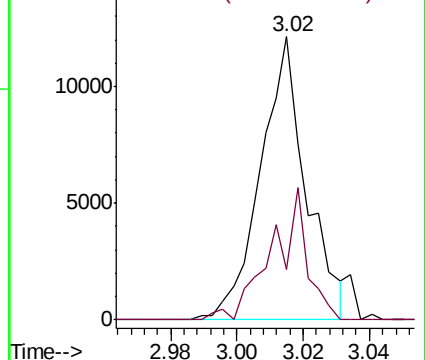
85 100

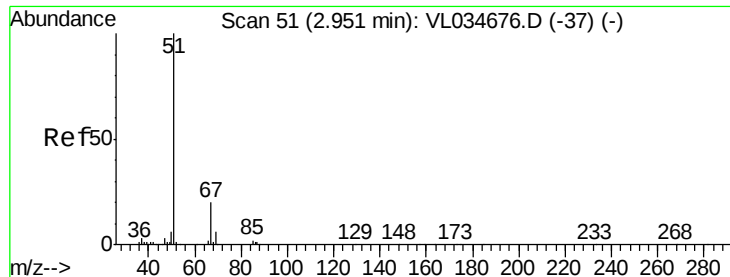
87 17.9 29.2 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.777 ppbv

RT: 2.92 min Scan# 43

Delta R.T. -0.03 min

Lab File: VL034752.D

Acq: 29 Feb 2020 1:07

Instrument :

MSVOA_L

ClientSampleId :

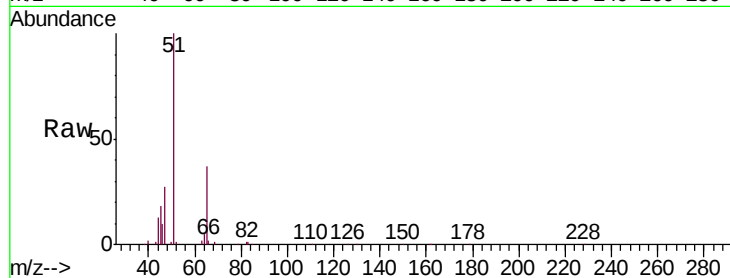
SG-9-TROPHY-CASEDL

Tgt Ion: 51 Resp: 84439

Ion Ratio Lower Upper

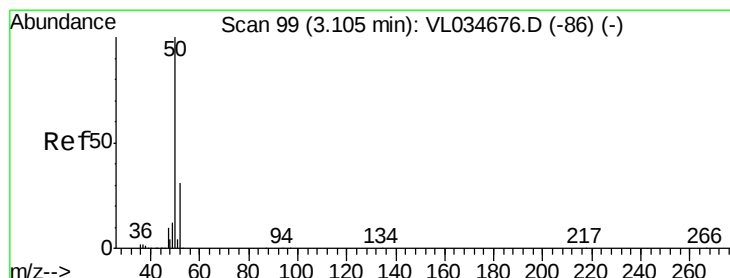
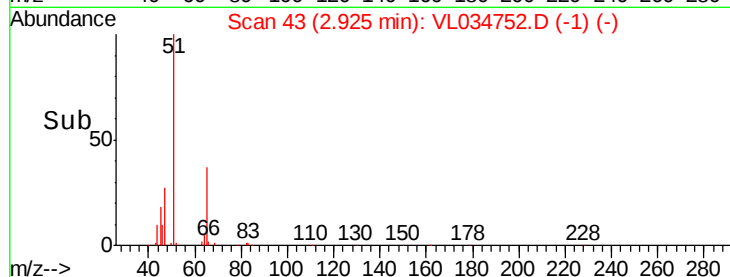
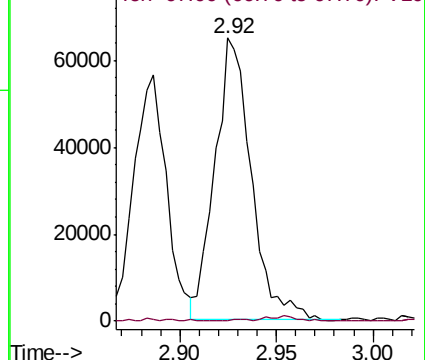
51 100

67 1.8 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.029 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034752.D

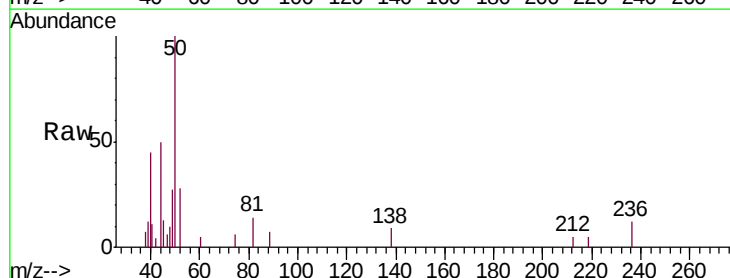
Acq: 29 Feb 2020 1:07

Tgt Ion: 50 Resp: 1737

Ion Ratio Lower Upper

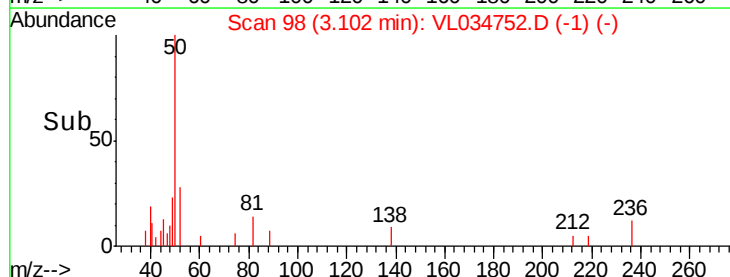
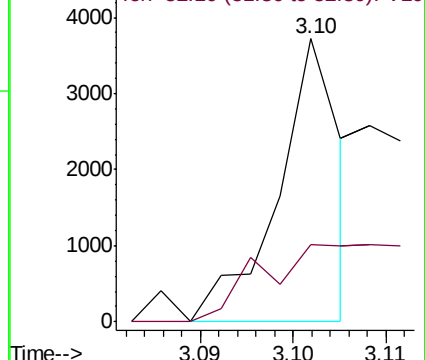
50 100

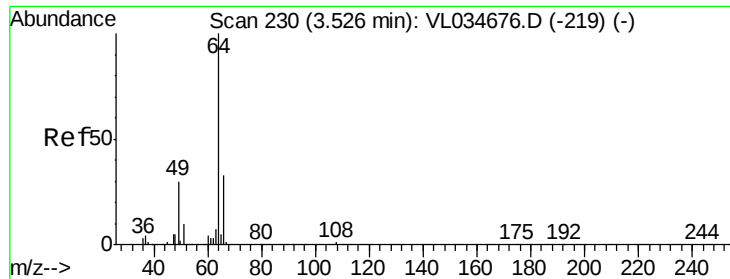
52 27.5 25.0 37.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.037 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034752.D

Acq: 29 Feb 2020 1:07

Instrument :

MSVOA_L

ClientSampleId :

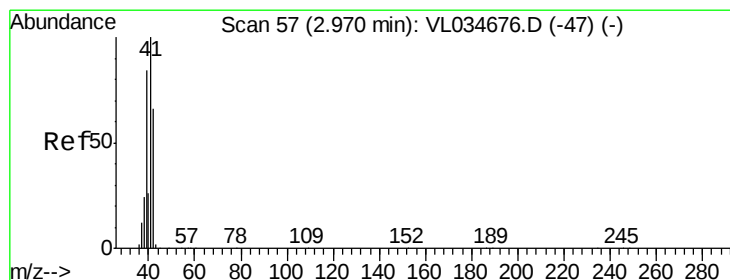
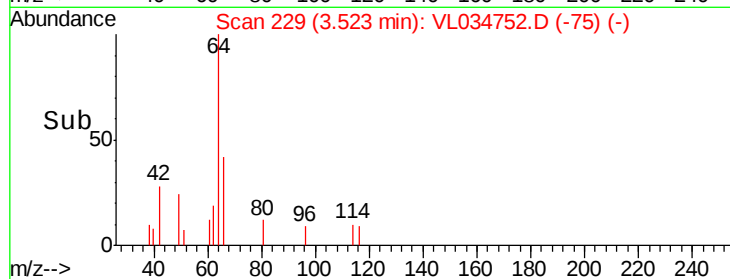
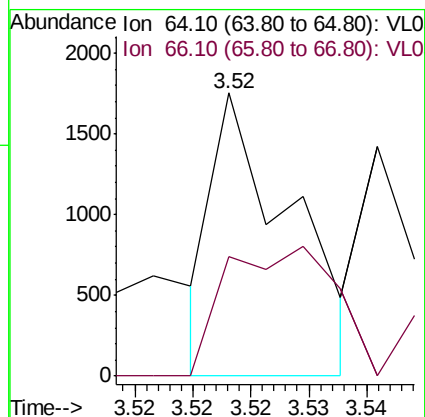
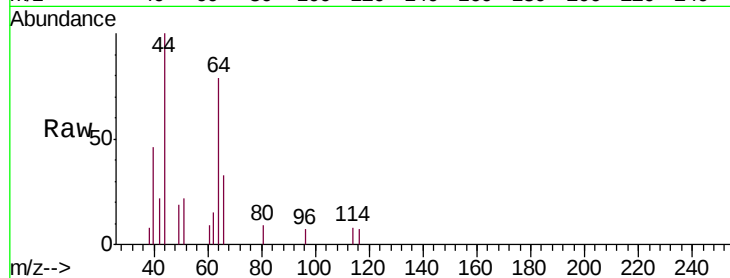
SG-9-TROPHY-CASEDL

Tgt Ion: 64 Resp: 827

Ion Ratio Lower Upper

64 100

66 42.4 26.7 40.1#



#9

Propene

Concen: 0.282 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.20 min

Lab File: VL034752.D

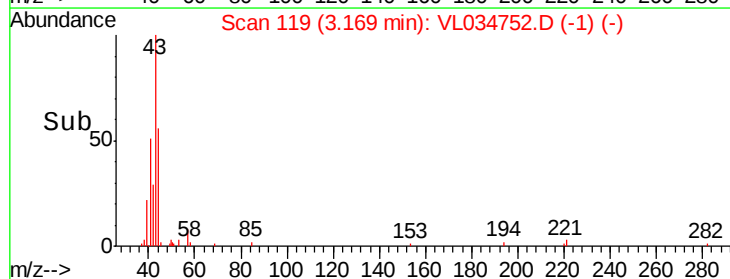
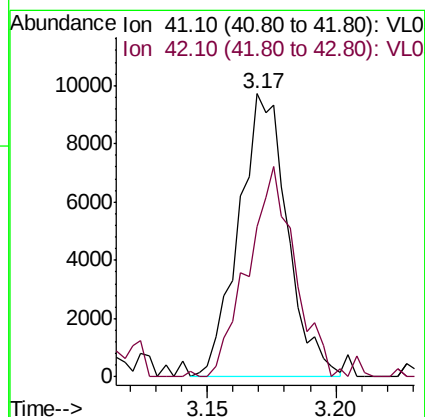
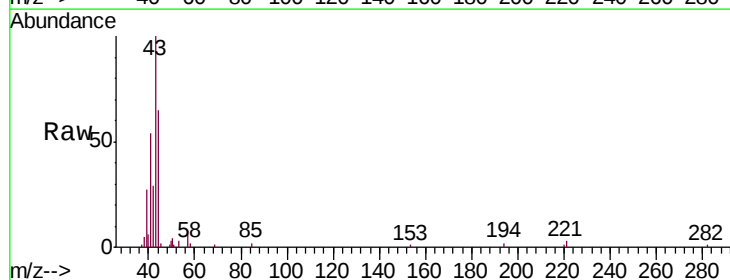
Acq: 29 Feb 2020 1:07

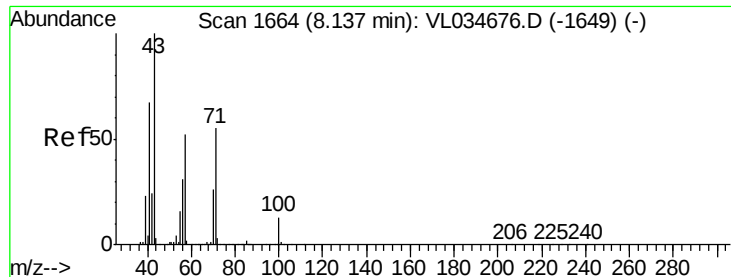
Tgt Ion: 41 Resp: 12812

Ion Ratio Lower Upper

41 100

42 73.4 54.9 82.3

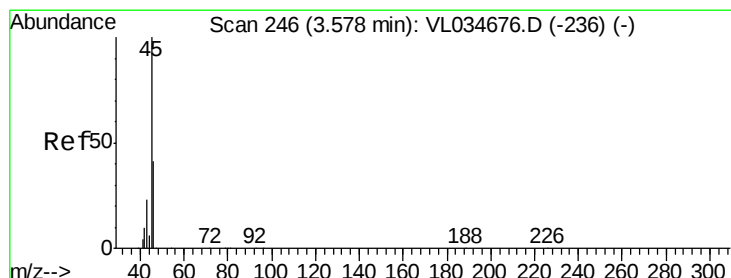
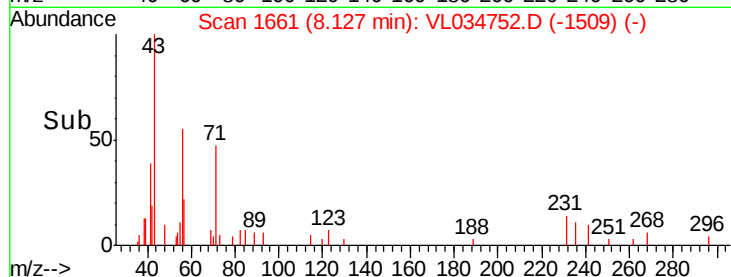
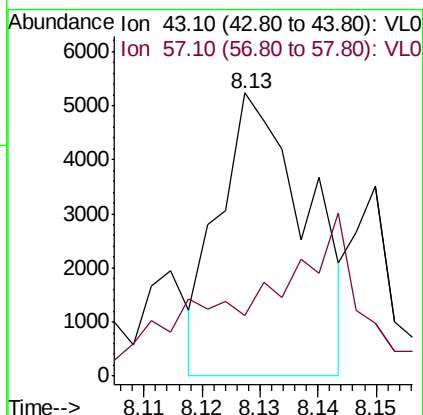
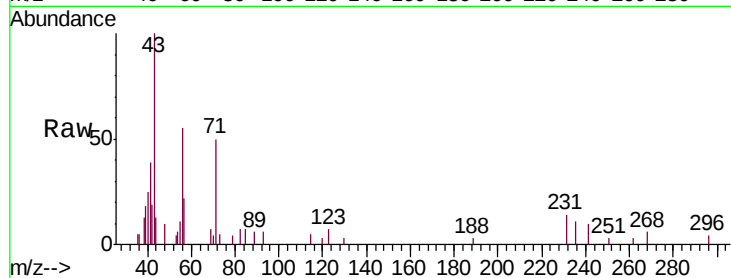




#10
 Heptane
 Concen: 0.047 ppbv
 RT: 8.13 min Scan# 1661
 Delta R.T. -0.01 min
 Lab File: VL034752.D
 Acq: 29 Feb 2020 1:07

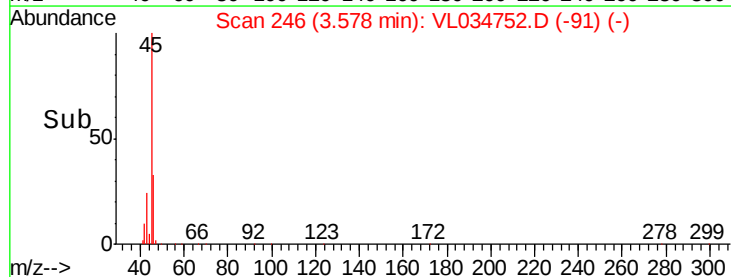
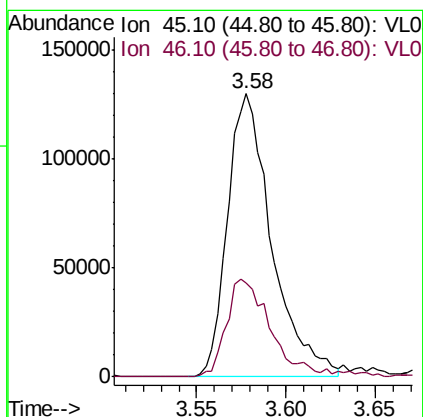
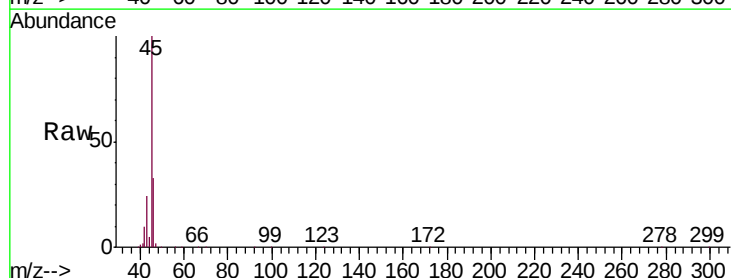
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-9-TROPHY-CASEDL

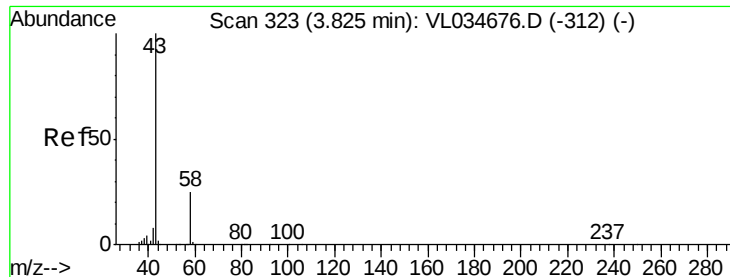
Tgt Ion: 43 Resp: 5457
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.0 61.6#



#13
 Ethanol
 Concen: 15.641 ppbv
 RT: 3.58 min Scan# 246
 Delta R.T. -0.00 min
 Lab File: VL034752.D
 Acq: 29 Feb 2020 1:07

Tgt Ion: 45 Resp: 224523
 Ion Ratio Lower Upper
 45 100
 46 36.3 15.4 61.4





#15

Acetone

Concen: 2.132 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034752.D

Acq: 29 Feb 2020 1:07

Instrument :

MSVOA_L

ClientSampleId :

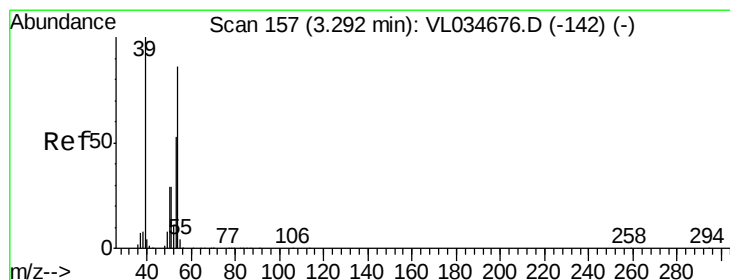
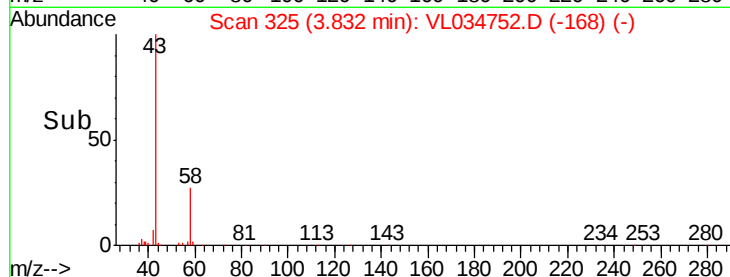
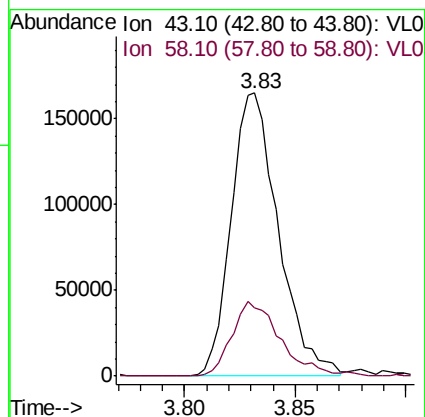
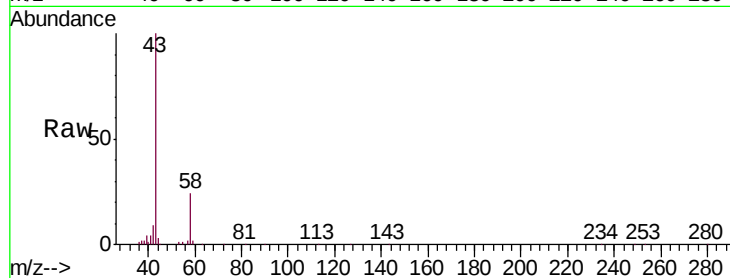
SG-9-TROPHY-CASEDL

Tgt Ion: 43 Resp: 244711

Ion Ratio Lower Upper

43 100

58 27.7 21.4 32.0



#16

1,3-Butadiene

Concen: 0.102 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.02 min

Lab File: VL034752.D

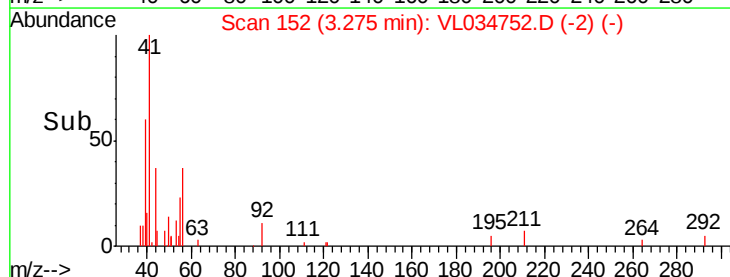
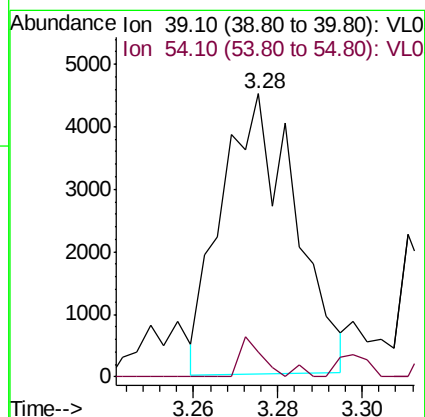
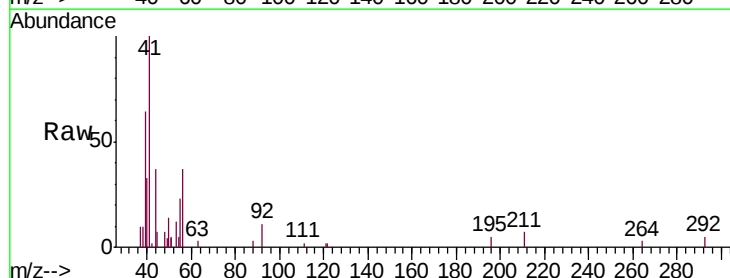
Acq: 29 Feb 2020 1:07

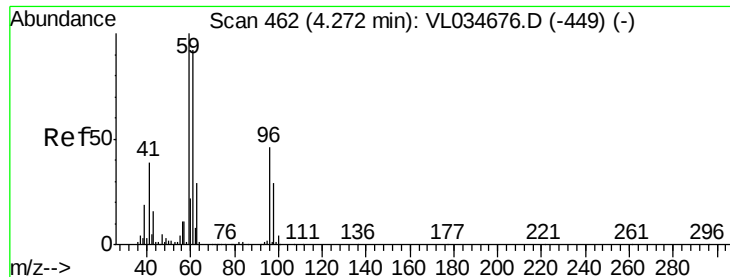
Tgt Ion: 39 Resp: 5421

Ion Ratio Lower Upper

39 100

54 4.9 67.0 100.6#





#17

tert-Butyl alcohol

Concen: 0.578 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.01 min

Lab File: VL034752.D

Acq: 29 Feb 2020 1:07

Instrument :

MSVOA_L

ClientSampleId :

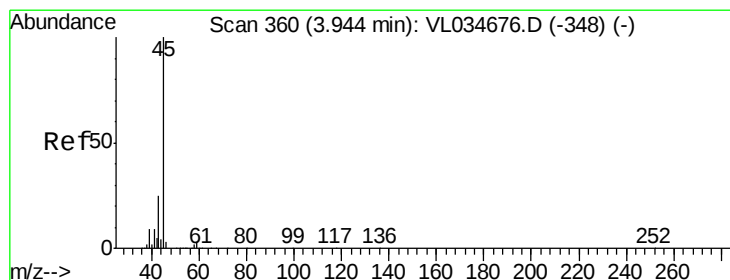
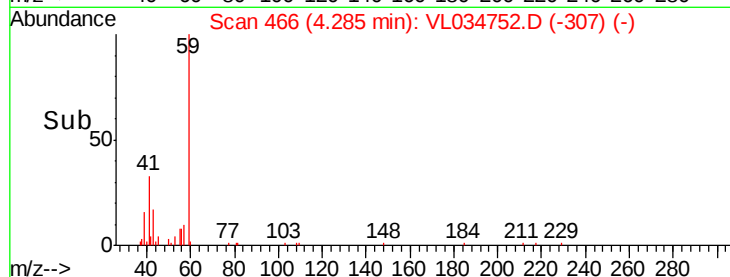
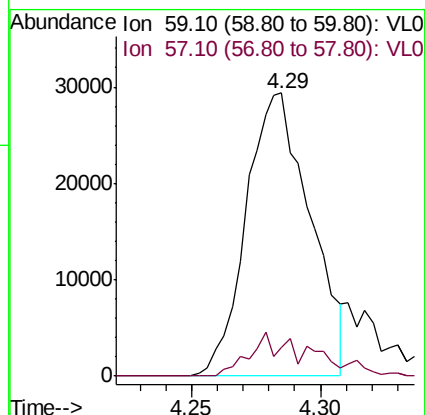
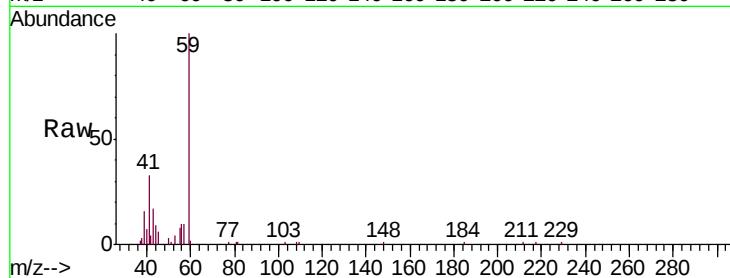
SG-9-TROPHY-CASEDL

Tgt Ion: 59 Resp: 50880

Ion Ratio Lower Upper

59 100

57 14.7 8.8 13.2#



#19

Isopropyl Alcohol

Concen: 6.563 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL034752.D

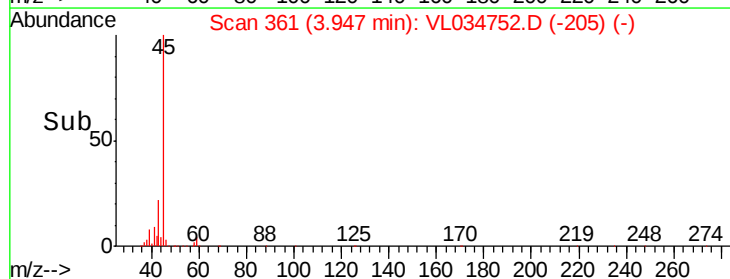
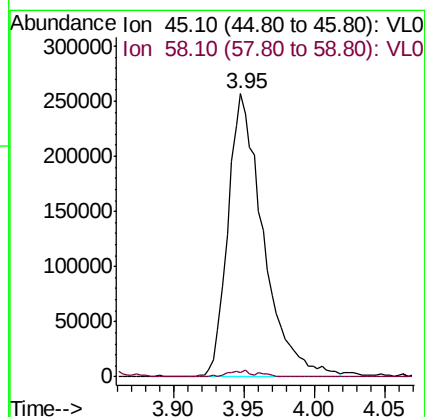
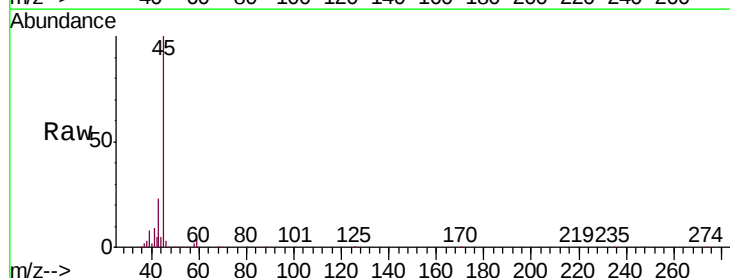
Acq: 29 Feb 2020 1:07

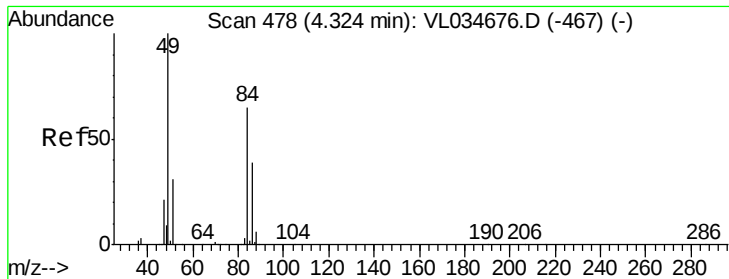
Tgt Ion: 45 Resp: 448697

Ion Ratio Lower Upper

45 100

58 2.2 1.8 2.6

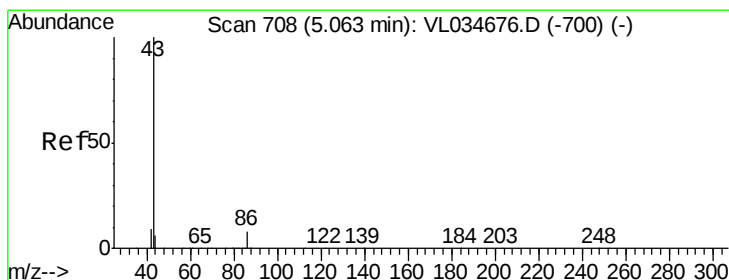
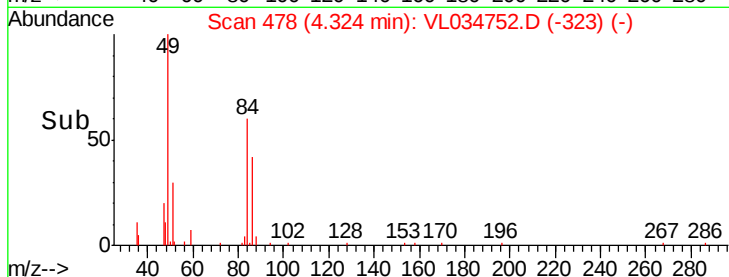
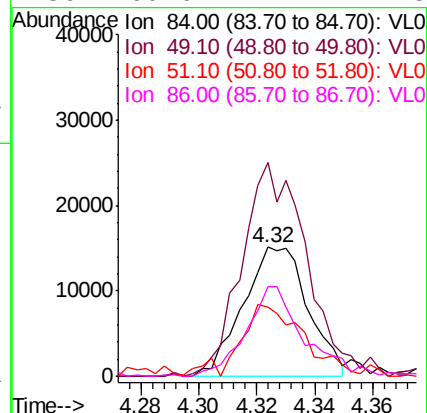
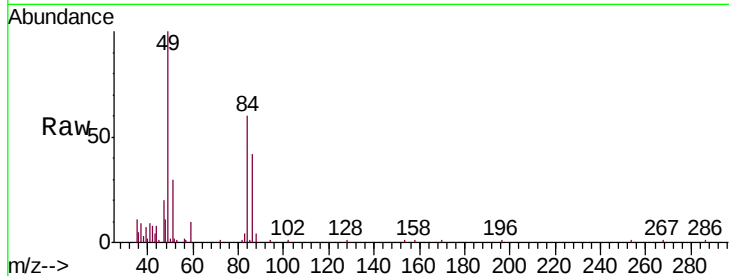




#20
Methylene Chloride
Concen: 0.551 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

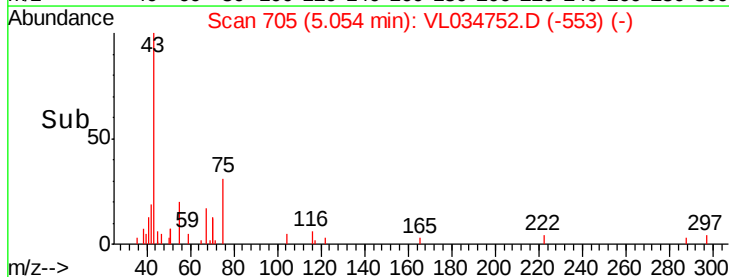
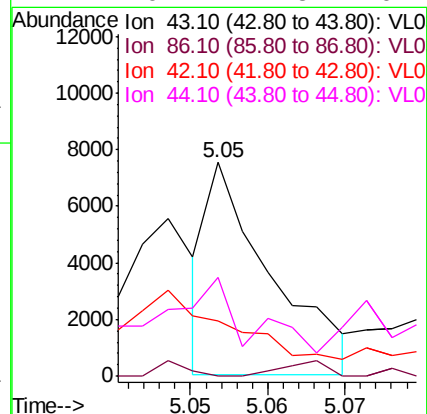
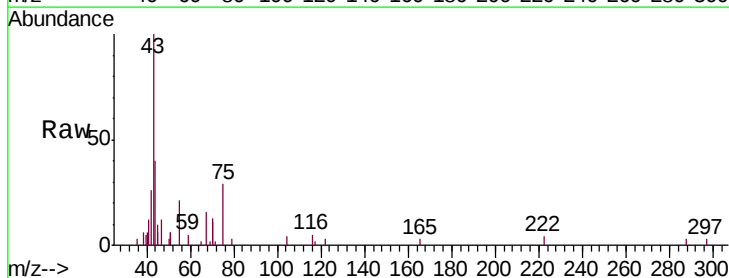
Instrument :
MSVOA_L
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SG-9-TROPHY-CASEDL

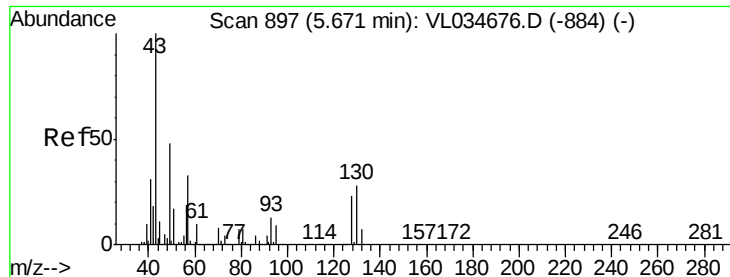
Tgt Ion:	84	Resp:	23525
Ion	Ratio	Lower	Upper
84	100		
49	163.3	122.8	184.2
51	47.5	38.6	58.0
86	69.6	47.7	71.5



#23
Vinyl Acetate
Concen: 0.028 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.01 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

Tgt Ion:	43	Resp:	4329
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	22.3	8.0	12.0#
44	29.1	4.5	6.7#

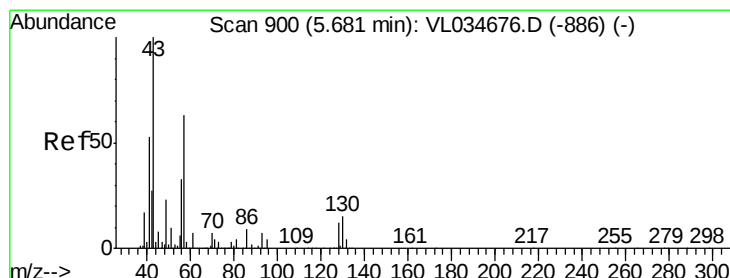
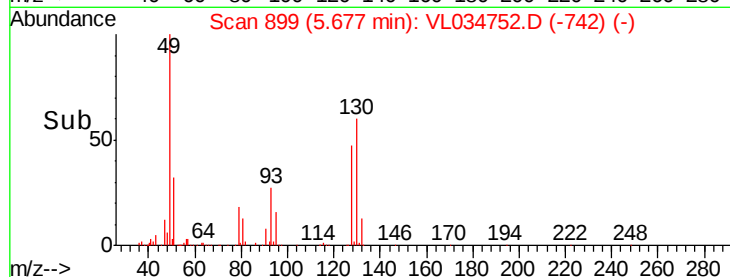
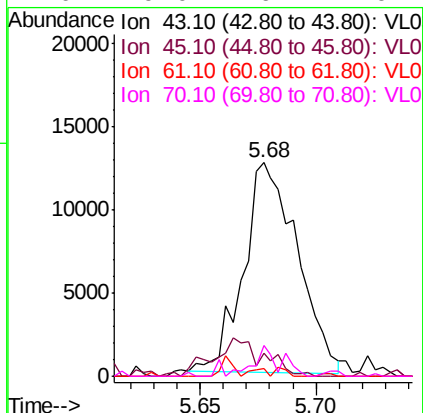
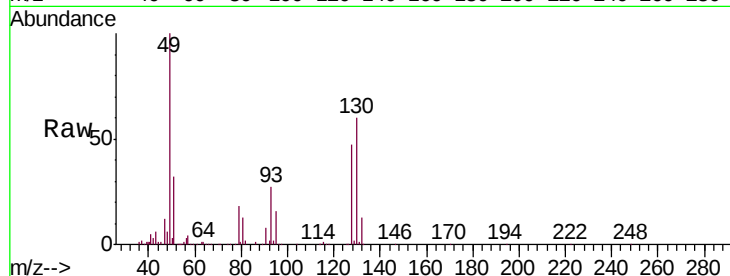




#25
Ethyl Acetate
Concen: 0.101 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

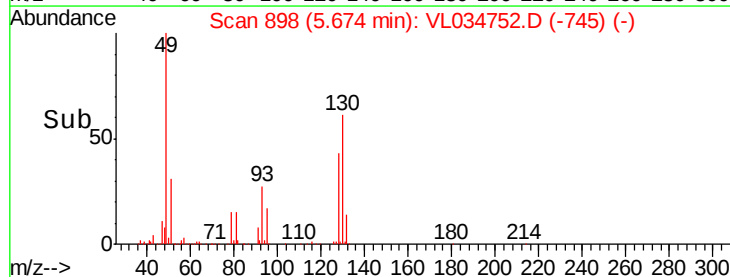
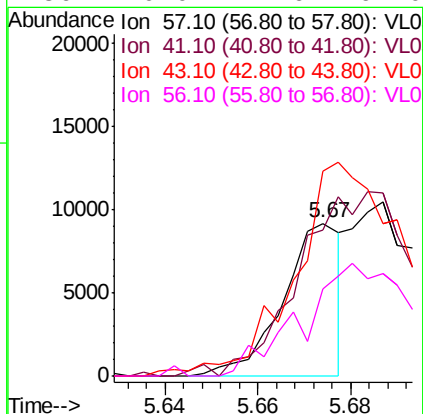
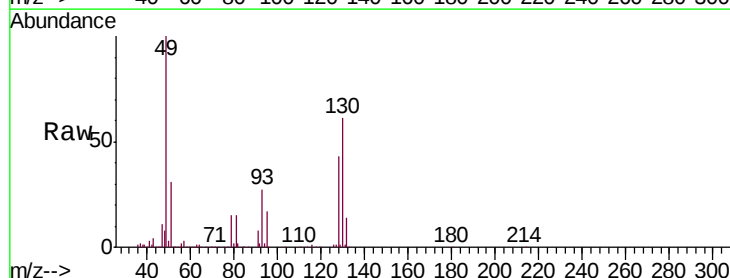
Instrument :
MSVOA_L
ClientSampleId :
SG-9-TROPHY-CASEDL

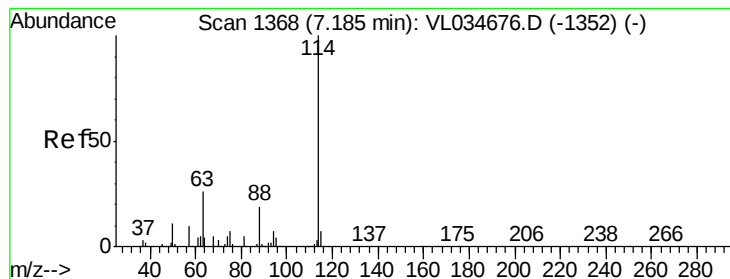
Tgt Ion:	43	Resp:	20532
Ion	Ratio	Lower	Upper
43	100		
45	16.6	8.2	12.4#
61	4.0	7.8	11.6#
70	9.0	6.1	9.1



#26
Hexane
Concen: 0.085 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

Tgt Ion:	57	Resp:	7971
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.3	105.5#
43	0.0	177.0	265.4#
56	0.0	42.6	64.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VL034752.D

Acq: 29 Feb 2020 1:07

Instrument :

MSVOA_L

ClientSampleId :

SG-9-TROPHY-CASEDL

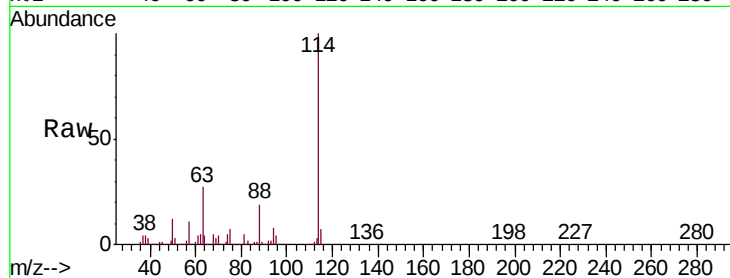
Tgt Ion:114 Resp: 2134000

Ion Ratio Lower Upper

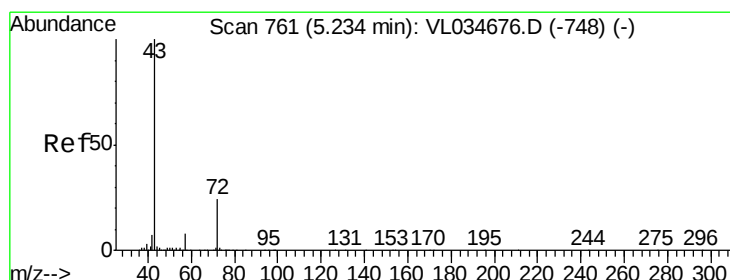
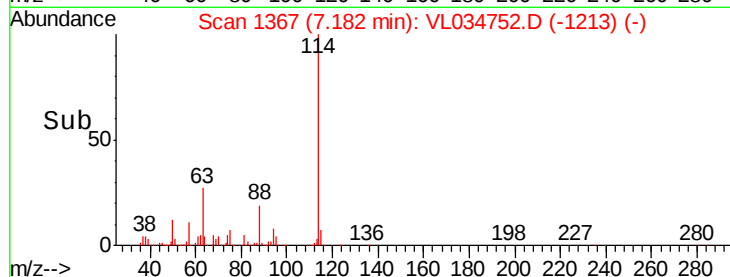
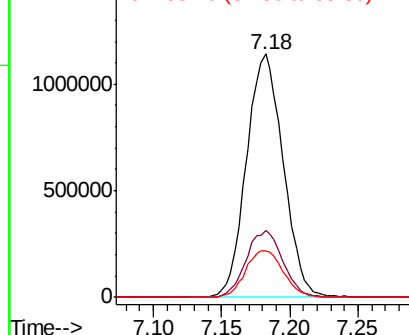
114 100

63 27.6 22.9 34.3

88 19.7 15.8 23.6



Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.078 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.00 min

Lab File: VL034752.D

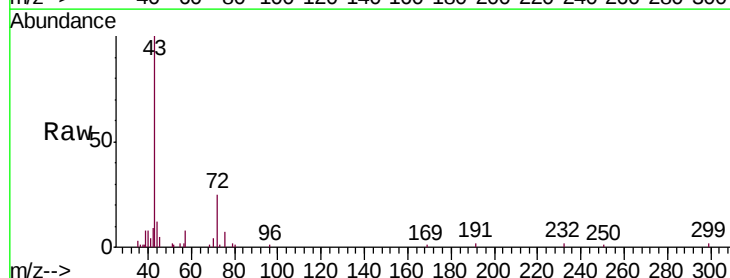
Acq: 29 Feb 2020 1:07

Tgt Ion: 43 Resp: 10420

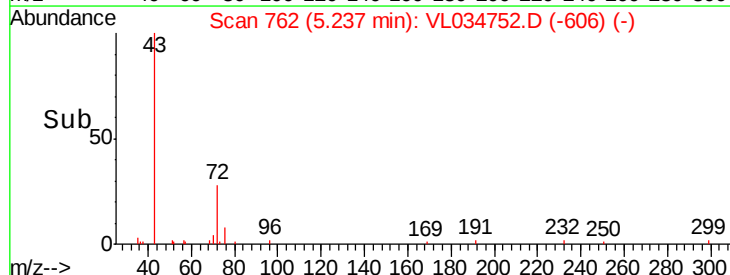
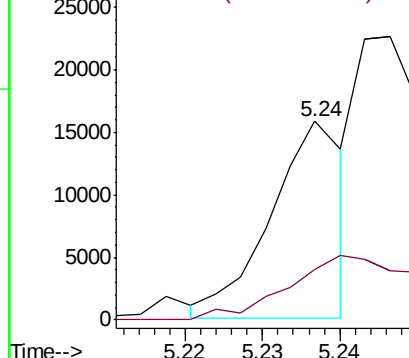
Ion Ratio Lower Upper

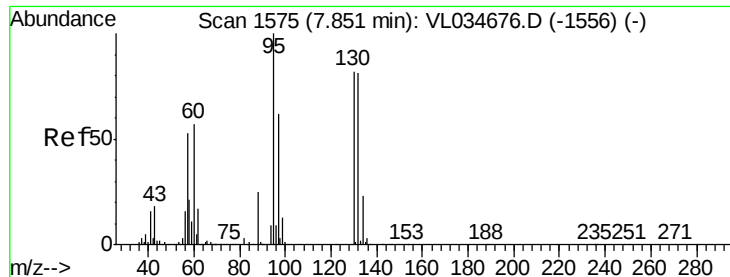
43 100

72 78.6 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0

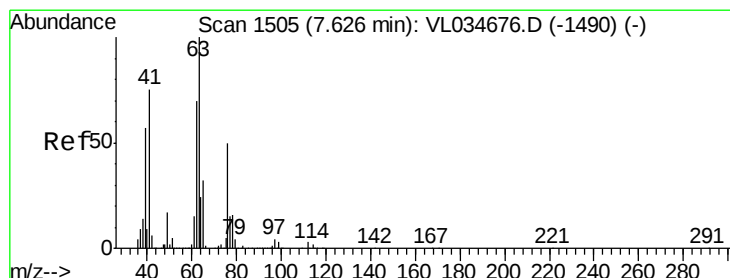
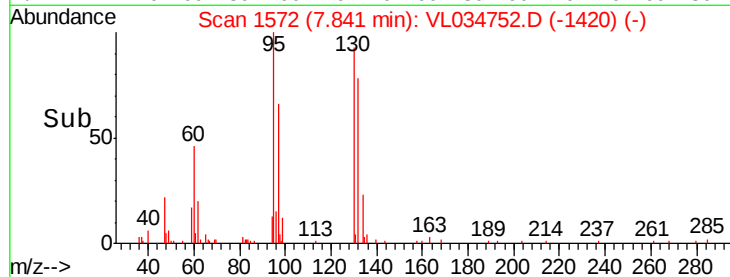
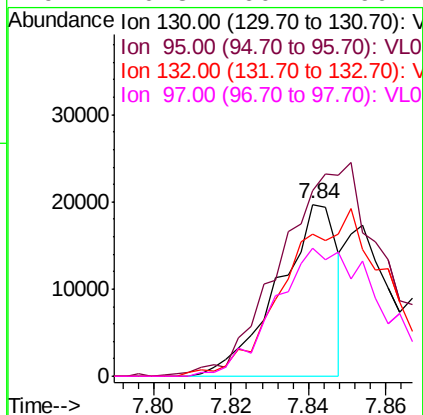
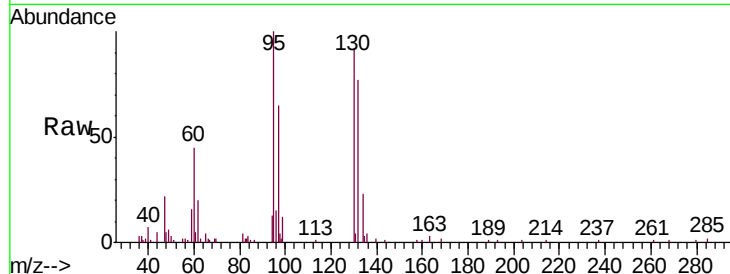




#38
 Trichloroethene
 Concen: 0.294 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VL034752.D
 Acq: 29 Feb 2020 1:07

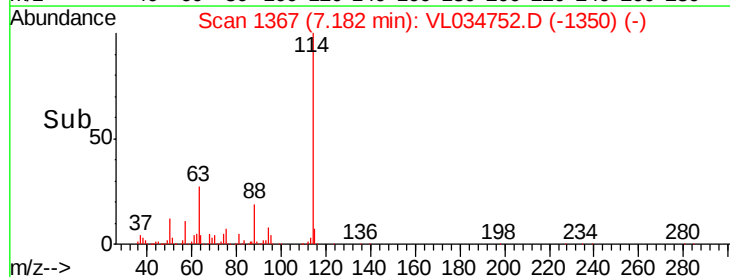
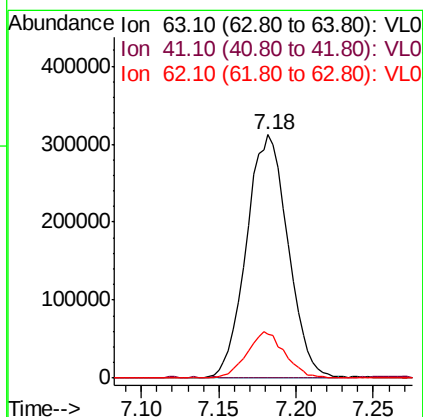
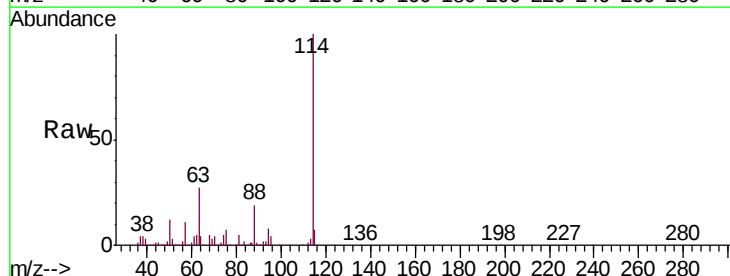
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-9-TROPHY-CASEDL

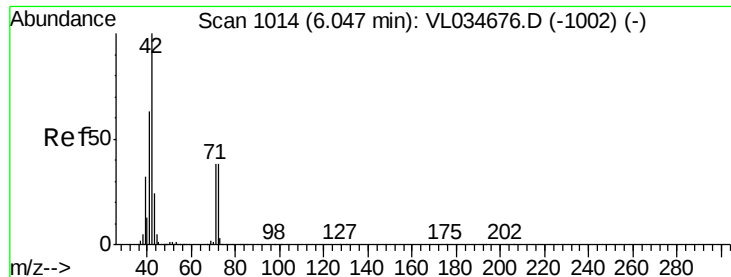
Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.3	97.1	145.7
132	77.4	78.3	117.5#
97	70.8	60.1	90.1



#39
 1,2-Dichloropropane
 Concen: 7.958 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.44 min
 Lab File: VL034752.D
 Acq: 29 Feb 2020 1:07

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.2	90.4#
62	18.3	56.3	84.5#

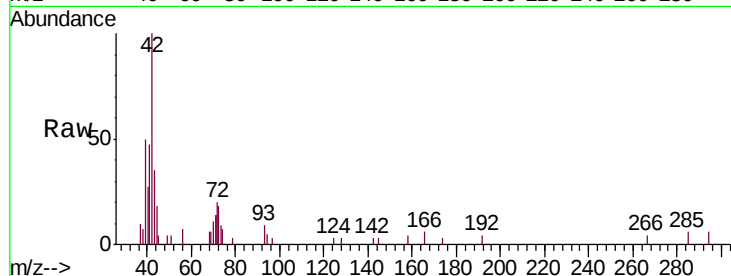




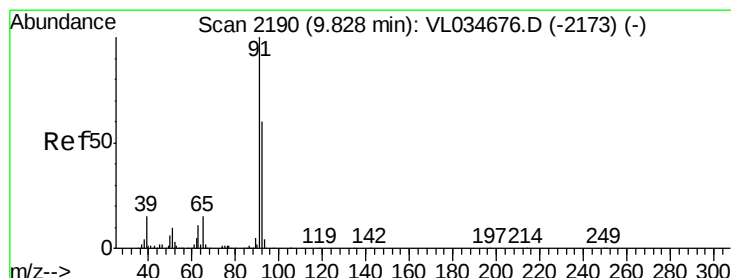
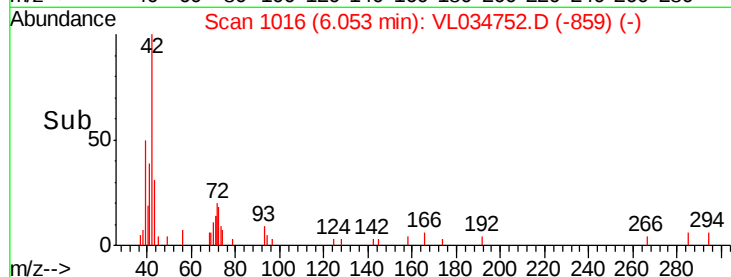
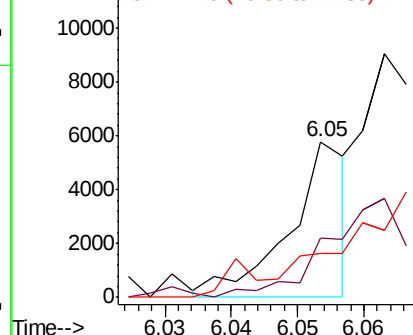
#41
Tetrahydrofuran
Concen: 0.050 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

Instrument :
MSVOA_L
ClientSampleId :
SG-9-TROPHY-CASEDL

Tgt Ion: 42 Resp: 3518
Ion Ratio Lower Upper
42 100
72 0.0 31.7 47.5#
71 0.0 30.7 46.1#

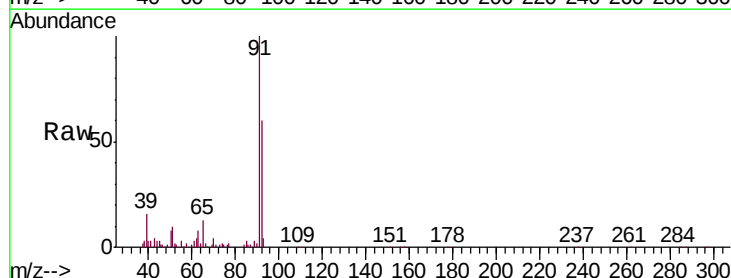


Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0

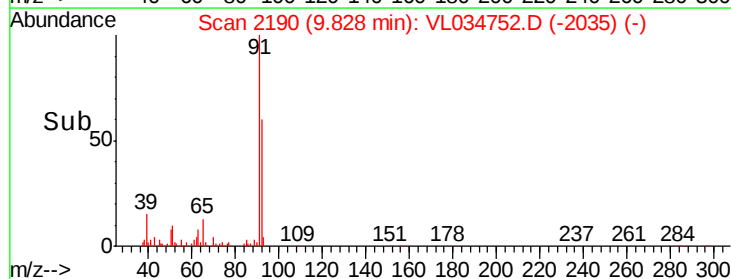
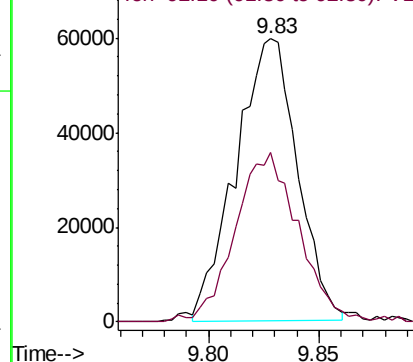


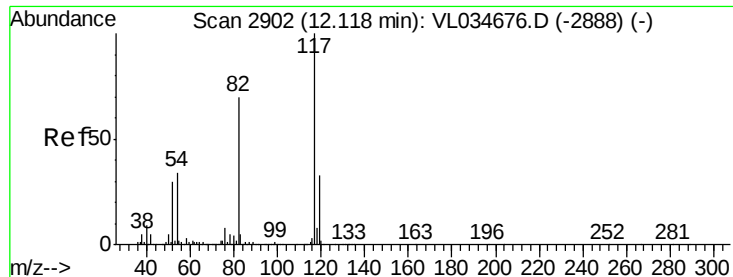
#53
Toluene
Concen: 0.590 ppbv
RT: 9.83 min Scan# 2190
Delta R.T. -0.00 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

Tgt Ion: 91 Resp: 115673
Ion Ratio Lower Upper
91 100
92 62.1 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

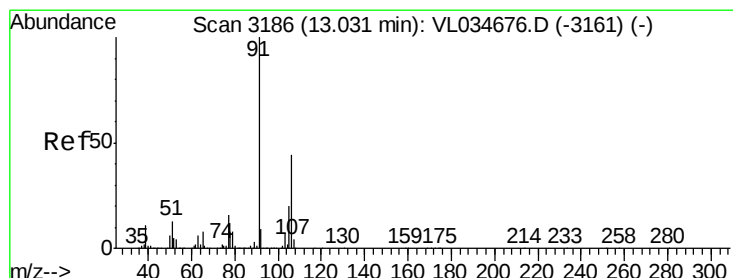
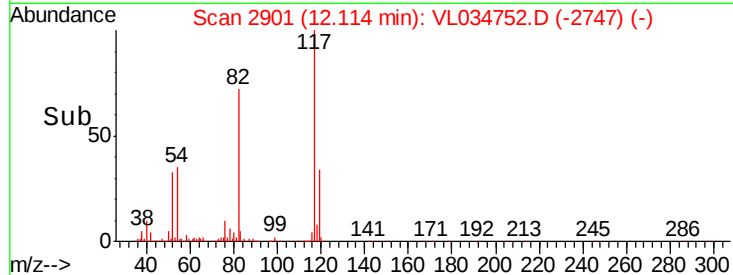
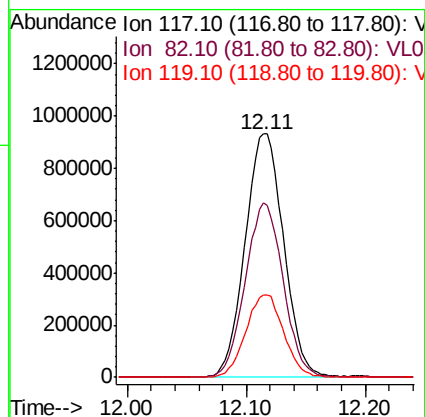
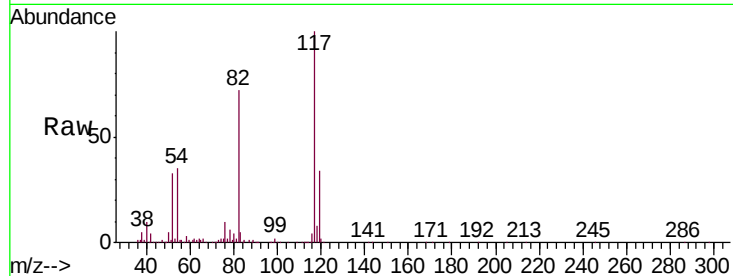




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

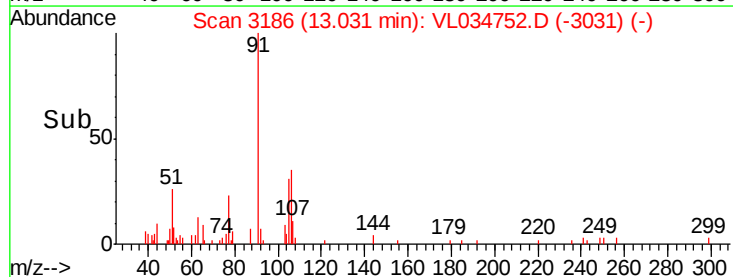
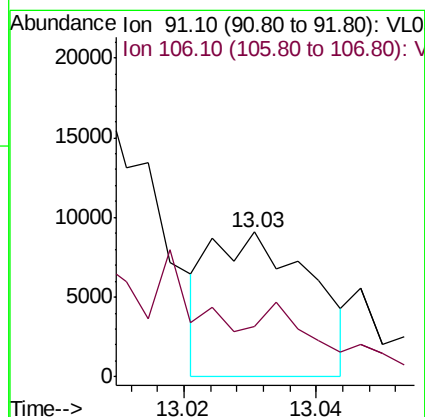
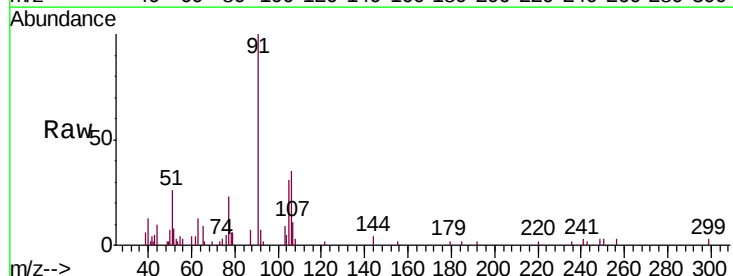
Instrument :
MSVOA_L
ClientSampleId :
SG-9-TROPHY-CASEDL

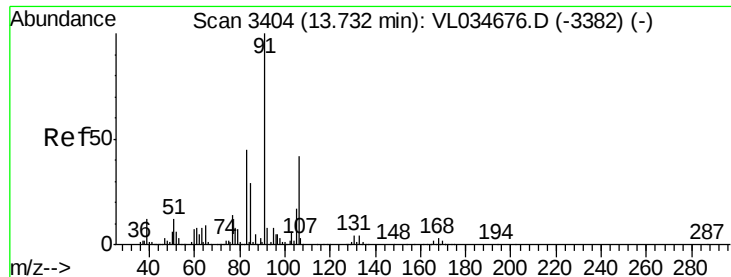
Tgt Ion:117 Resp: 2089760
Ion Ratio Lower Upper
117 100
82 70.8 54.1 81.1
119 33.4 27.6 41.4



#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 13.03 min Scan# 3186
Delta R.T. -0.00 min
Lab File: VL034752.D
Acq: 29 Feb 2020 1:07

Tgt Ion: 91 Resp: 9558
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#





#60

o-Xylene

Concen: 0.024 ppbv

RT: 13.73 min Scan# 3405

Delta R.T. 0.00 min

Lab File: VL034752.D

Acq: 29 Feb 2020 1:07

Instrument :

MSVOA_L

ClientSampleId :

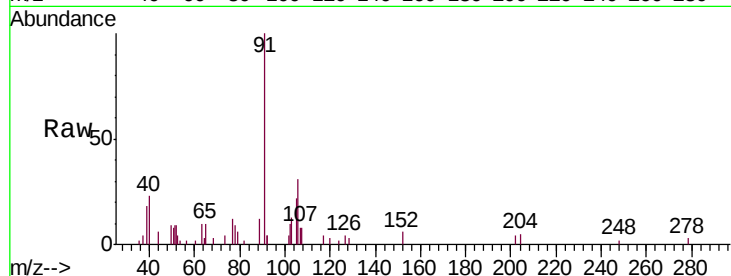
SG-9-TROPHY-CASEDL

Tgt Ion: 91 Resp: 5145

Ion Ratio Lower Upper

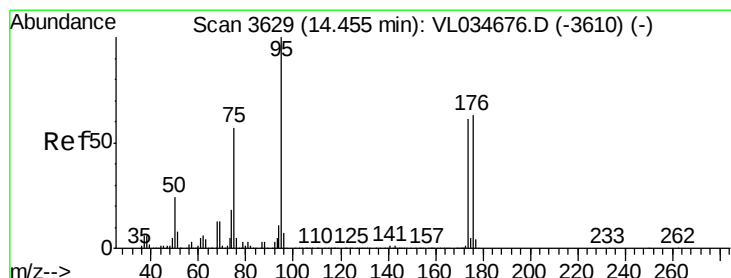
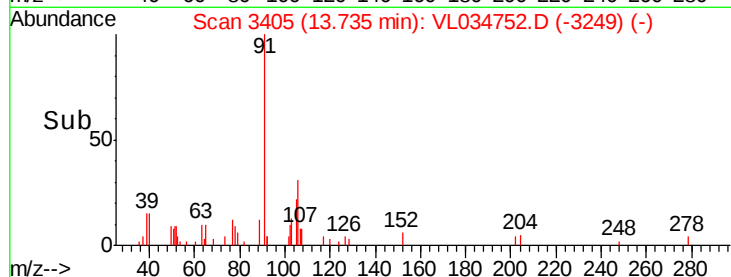
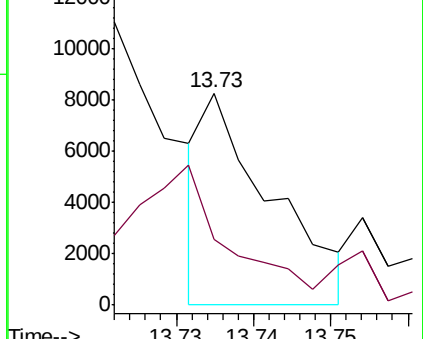
91 100

106 179.6 21.9 65.5#



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: 10.216 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.00 min

Lab File: VL034752.D

Acq: 29 Feb 2020 1:07

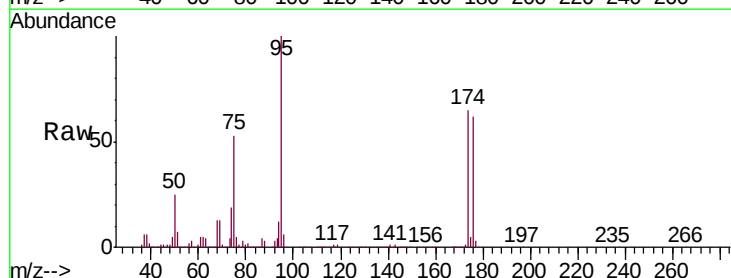
Tgt Ion: 95 Resp: 1750537

Ion Ratio Lower Upper

95 100

174 64.8 50.7 76.1

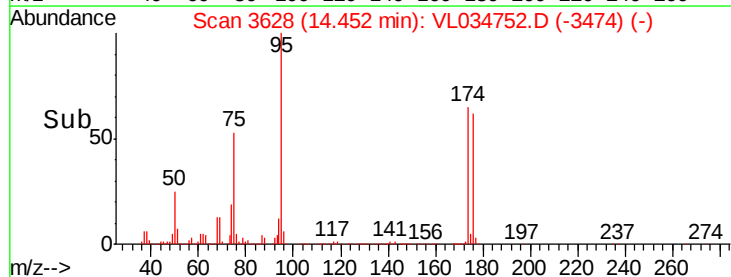
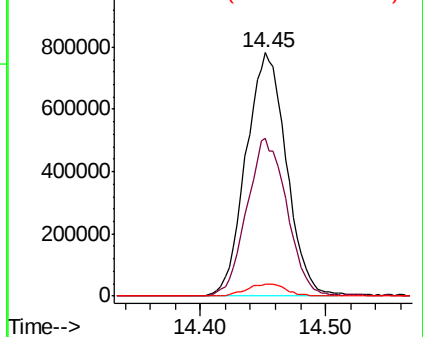
175 5.0 3.9 5.9

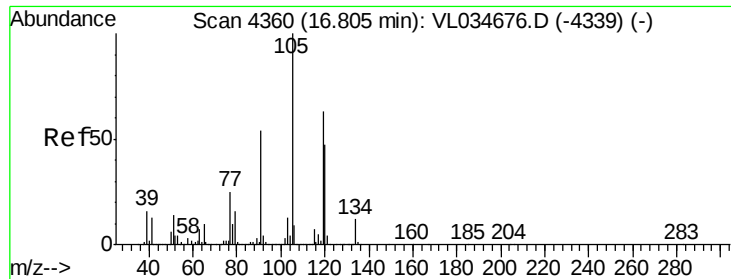


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.027 ppbv
 RT: 16.80 min Scan# 4358
 Delta R.T. -0.01 min
 Lab File: VL034752.D
 Acq: 29 Feb 2020 1:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-9-TROPHY-CASEDL

Tgt Ion:	105	Resp:	6878
Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.9	56.9#
91	0.0	43.9	65.9#
77	0.0	20.3	30.5#

