

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081219\
 Data File : VL034110.D
 Acq On : 12 Aug 2019 19:08
 Operator : SY/AP
 Sample : K4296-04 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI4DL

Quant Time: Aug 13 04:05:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 17:09:48 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1202467	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2231115	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2293732	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1980271	10.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

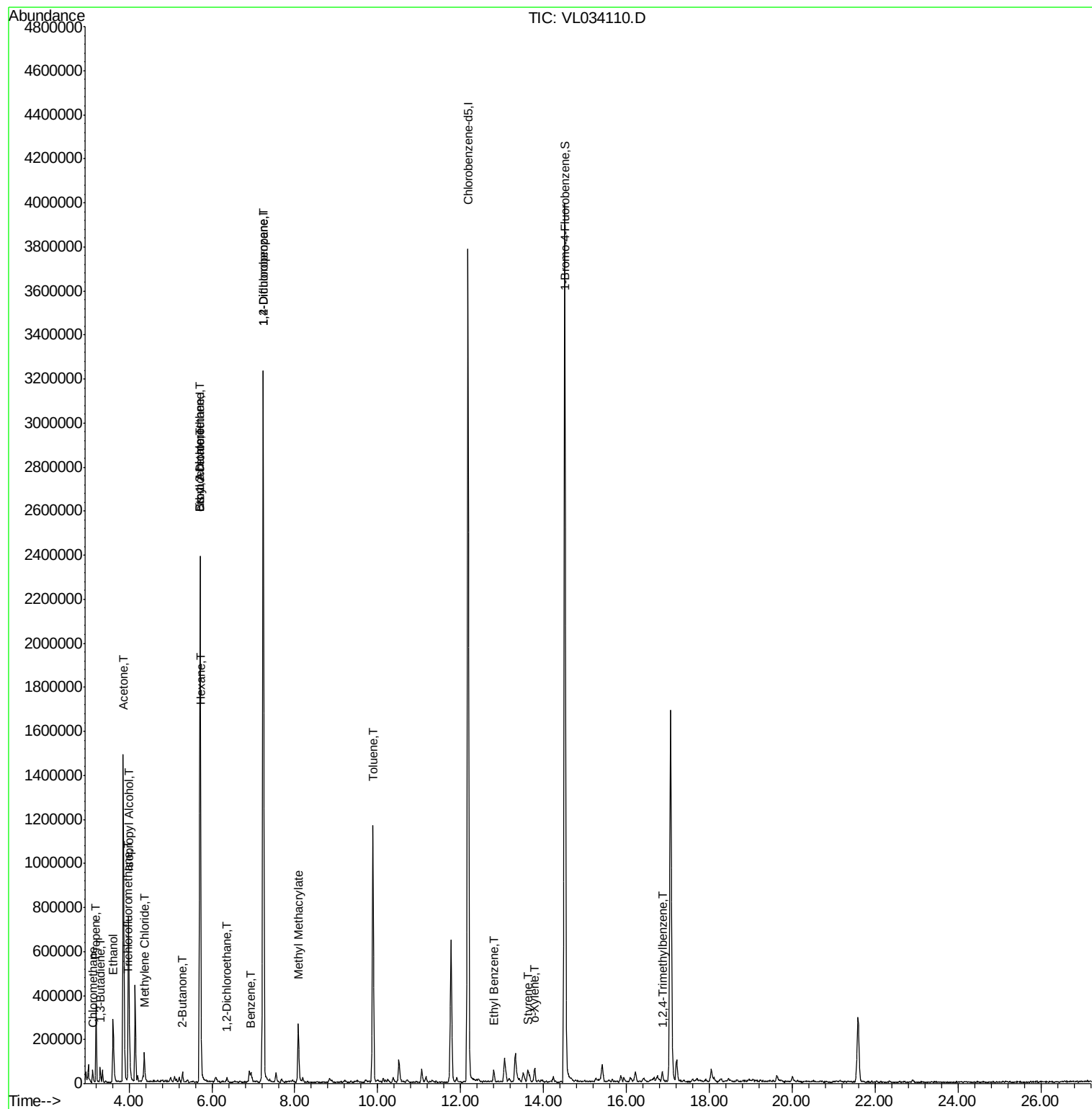
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.14	50	3205	0.036	ppbv #	81
9) Propene	3.21	41	86920	1.060	ppbv	100
11) Trichlorofluoromethane	3.97	101	7129	0.041	ppbv	95
13) Ethanol	3.62	45	304735	13.191	ppbv	98
15) Acetone	3.86	43	1525248	8.876	ppbv	99
16) 1,3-Butadiene	3.31	39	18586	0.222	ppbv #	17
19) Isopropyl Alcohol	3.99	45	877124	6.556	ppbv #	47
20) Methylene Chloride	4.37	84	41368	0.803	ppbv	90
25) Ethyl Acetate	5.72	43	174922	0.518	ppbv #	93
26) Hexane	5.73	57	42843	0.299	ppbv #	32
31) cis-1,2-Dichloroethene	5.71	61	5583	0.039	ppbv #	39
34) 2-Butanone	5.29	43	48980	0.236	ppbv	98
36) Benzene	6.95	78	12801	0.050	ppbv #	88
37) 1,2-Dichloroethane	6.36	62	6535	0.048	ppbv #	78
39) 1,2-Dichloropropane	7.24	63	685647	6.701	ppbv #	23
43) Methyl Methacrylate	8.08	69	92716	0.891	ppbv	99
53) Toluene	9.88	91	897271	3.066	ppbv	97
58) Ethyl Benzene	12.80	91	47463	0.123	ppbv	94
60) o-Xylene	13.79	91	21929	0.071	ppbv #	31
61) Styrene	13.62	104	17081	0.070	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.86	105	13226	0.036	ppbv #	80

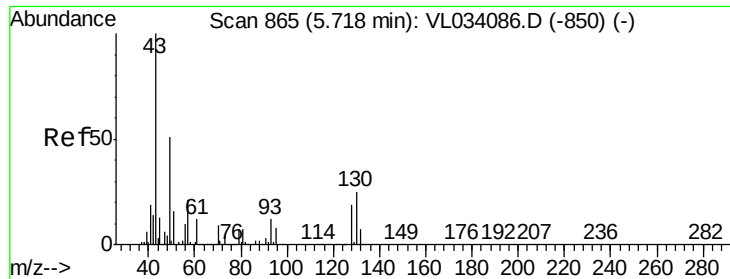
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.01 min

Lab File: VL034110.D

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MSVOA_L

ClientSampleId :

SRS-0807-VI4DL

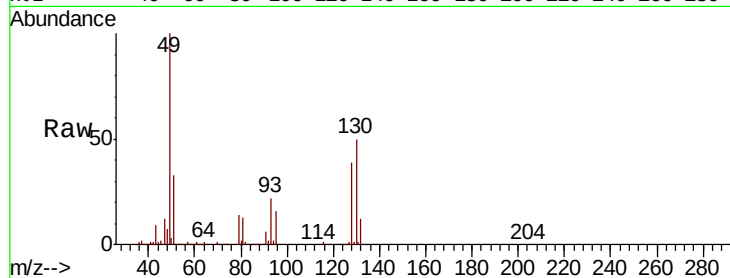
Tgt Ion: 49 Resp: 1202467

Ion Ratio Lower Upper

49 100

128 37.4 19.5 58.5

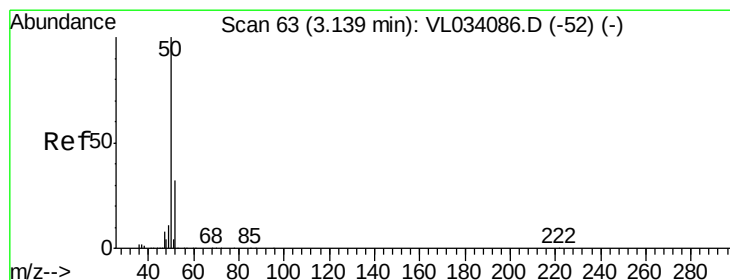
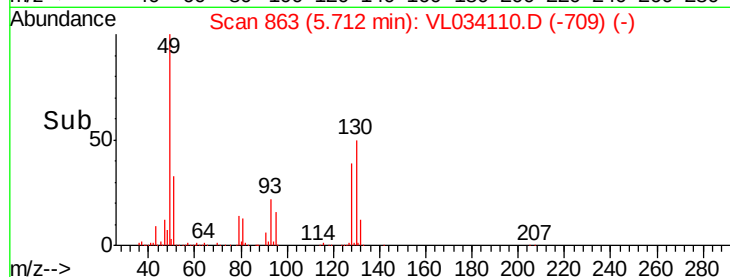
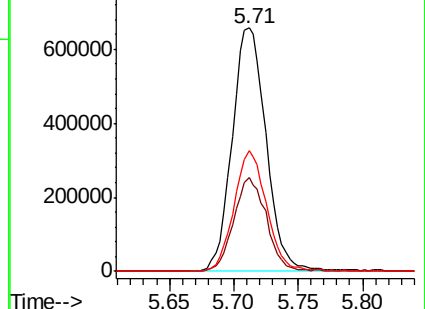
130 48.3 25.4 76.0



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



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.14 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034110.D

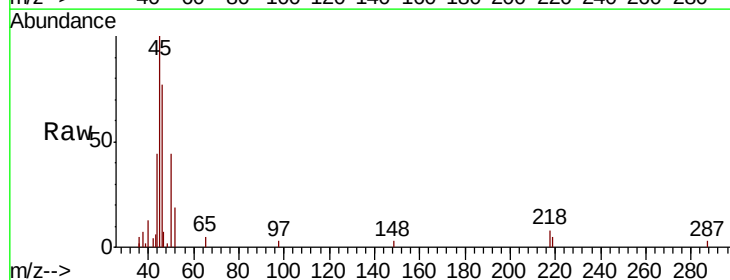
Acq: 12 Aug 2019 19:08

Tgt Ion: 50 Resp: 3205

Ion Ratio Lower Upper

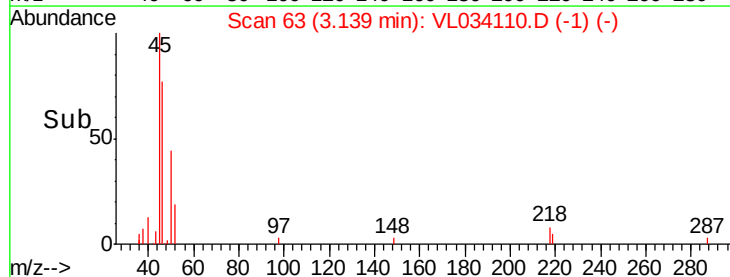
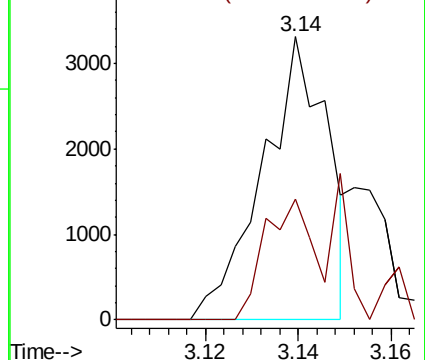
50 100

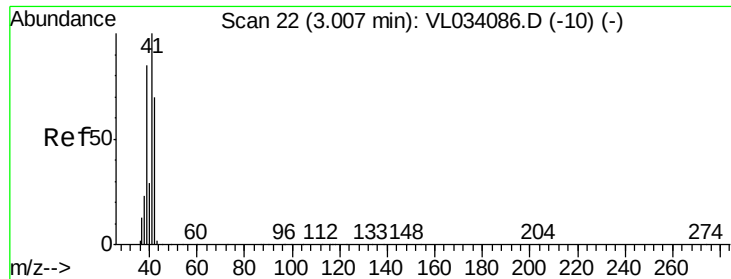
52 42.5 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.060 ppbv

RT: 3.21 min Scan# 84

Delta R.T. 0.20 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

Instrument :

MSVOA_L

ClientSampleId :

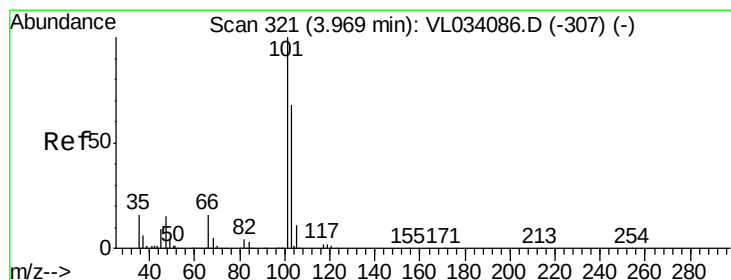
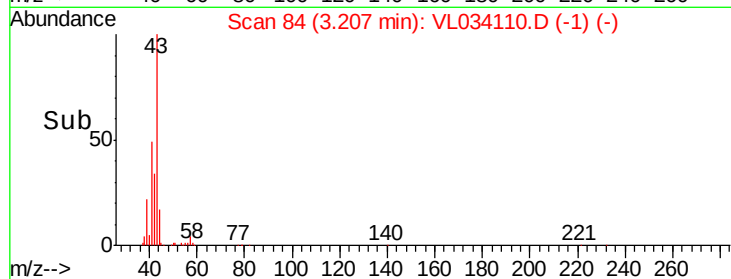
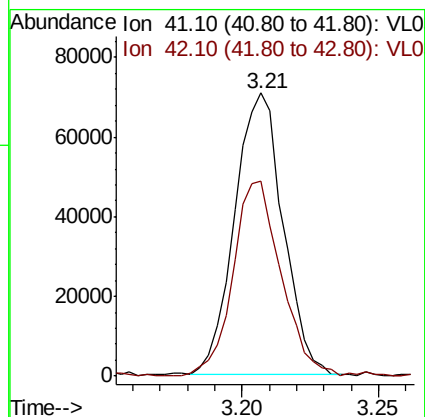
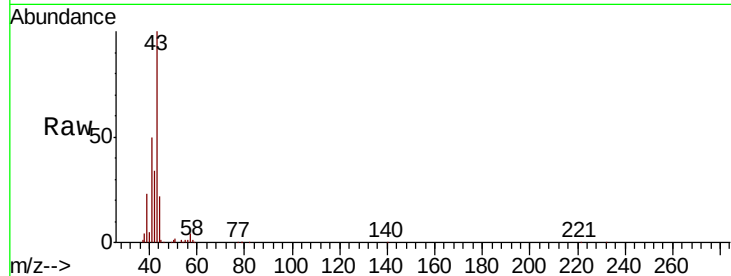
SRS-0807-VI4DL

Tgt Ion: 41 Resp: 86920

Ion Ratio Lower Upper

41 100

42 70.1 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 3.97 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034110.D

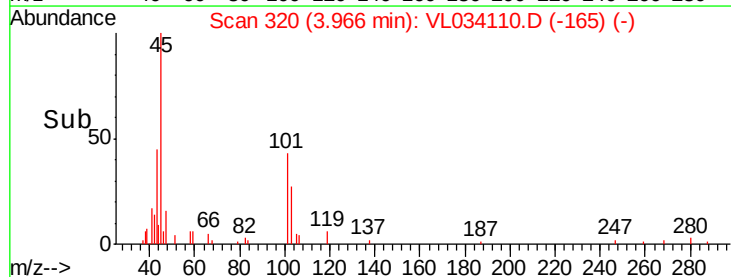
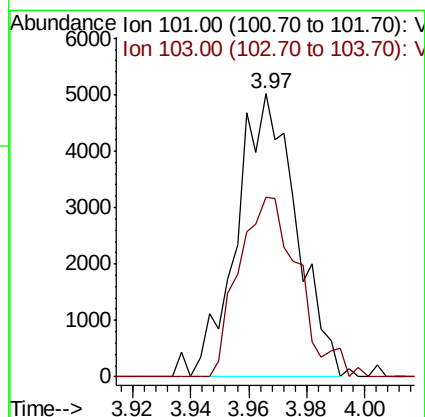
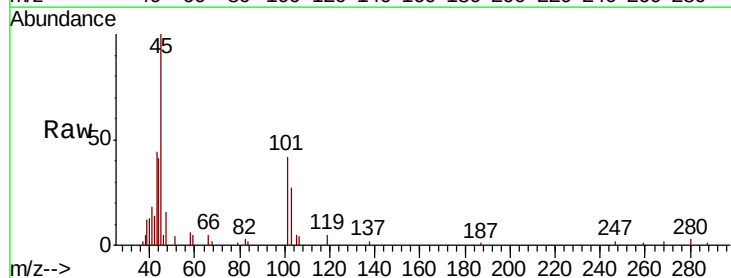
Acq: 12 Aug 2019 19:08

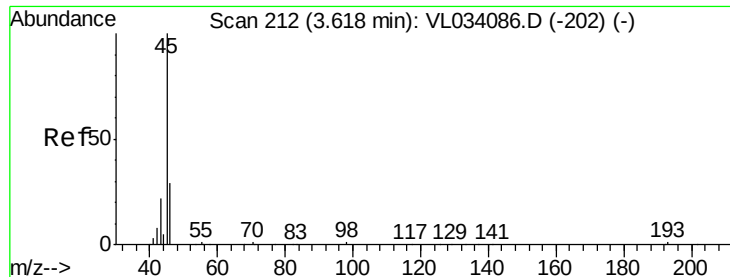
Tgt Ion: 101 Resp: 7129

Ion Ratio Lower Upper

101 100

103 63.7 54.3 81.5





#13

Ethanol

Concen: 13.191 ppbv

RT: 3.62 min Scan# 211

Delta R.T. -0.00 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

Instrument :

MSVOA_L

ClientSampleId :

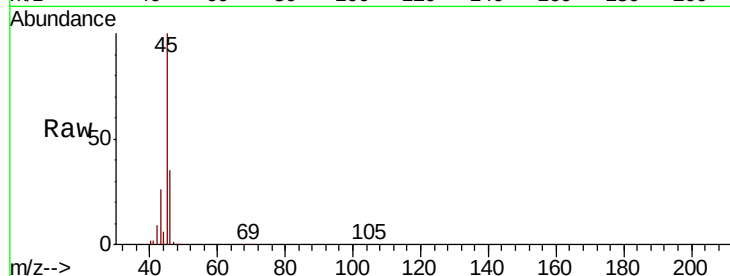
SRS-0807-VI4DL

Tgt Ion: 45 Resp: 304735

Ion Ratio Lower Upper

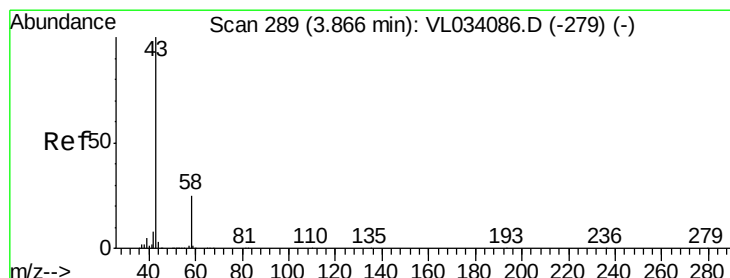
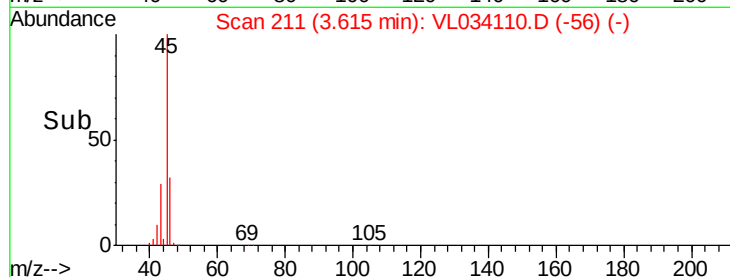
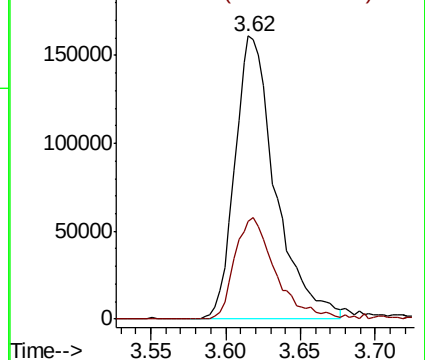
45 100

46 35.8 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 8.876 ppbv

RT: 3.86 min Scan# 288

Delta R.T. -0.00 min

Lab File: VL034110.D

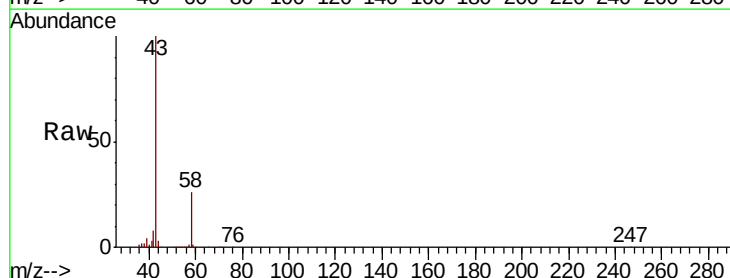
Acq: 12 Aug 2019 19:08

Tgt Ion: 43 Resp: 1525248

Ion Ratio Lower Upper

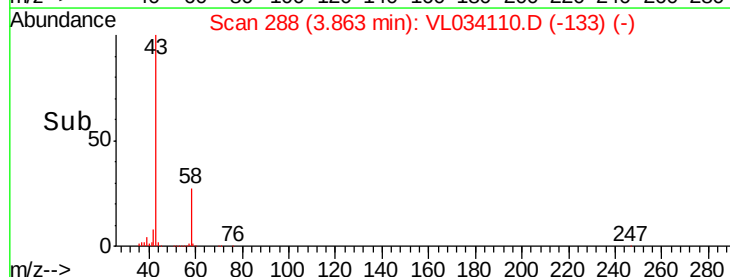
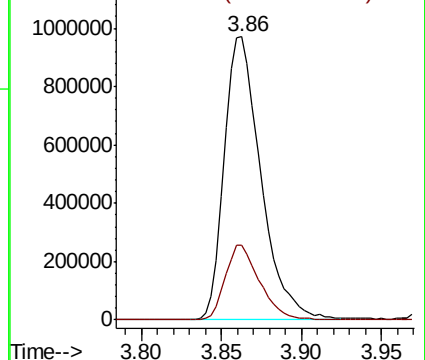
43 100

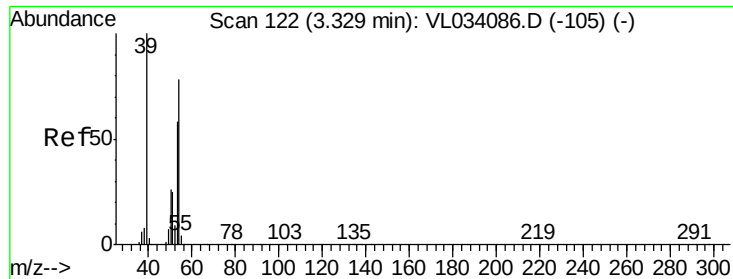
58 25.0 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

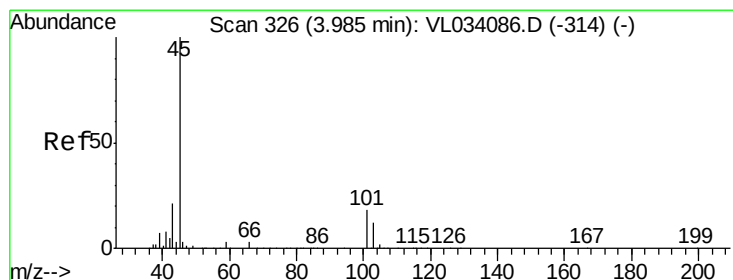
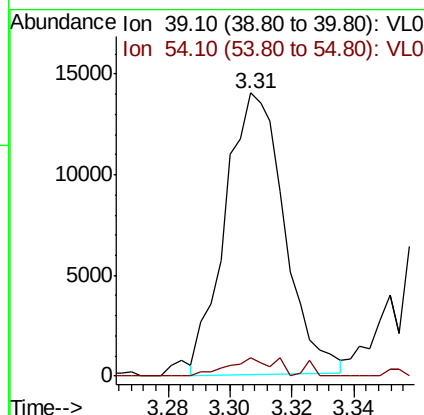
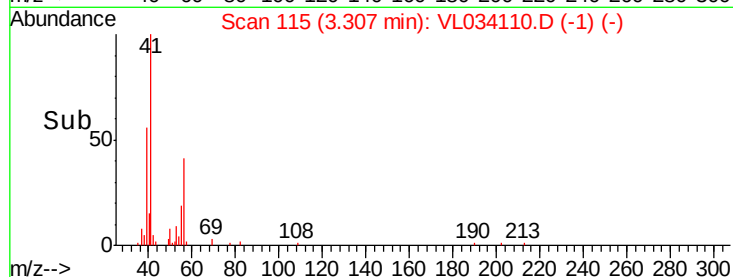
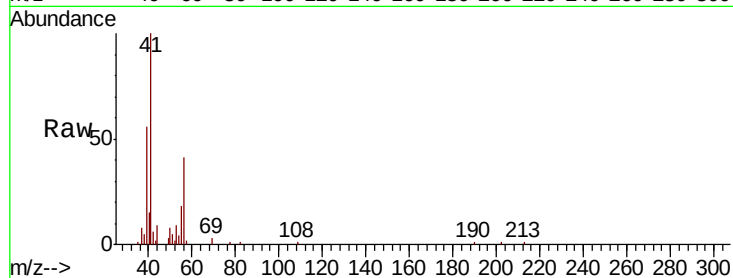




#16
1,3-Butadiene
Concen: 0.222 ppbv
RT: 3.31 min Scan# 115
Delta R.T. -0.02 min
Lab File: VL034110.D
Acq: 12 Aug 2019 19:08

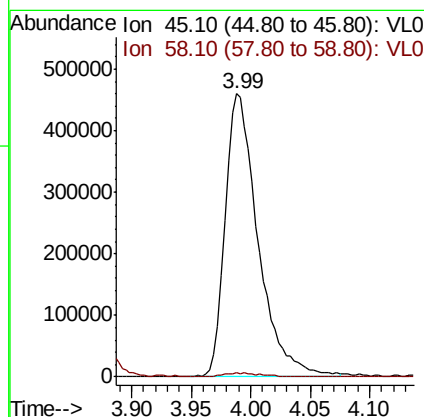
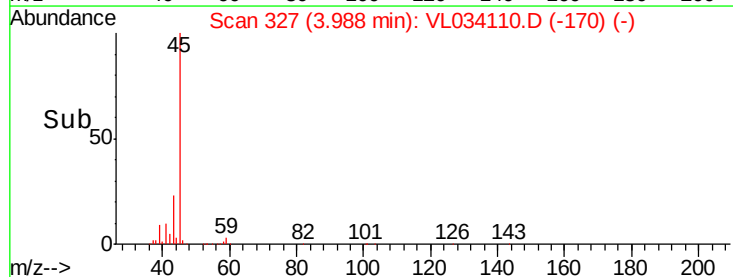
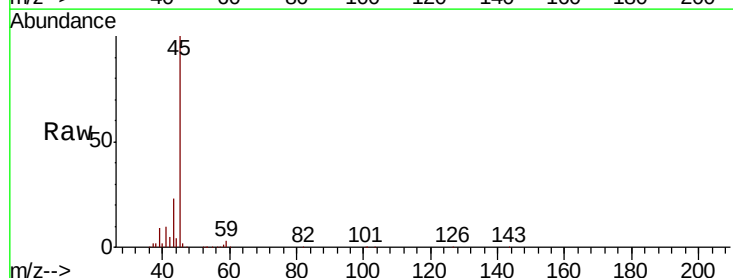
Instrument :
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SRS-0807-VI4DL

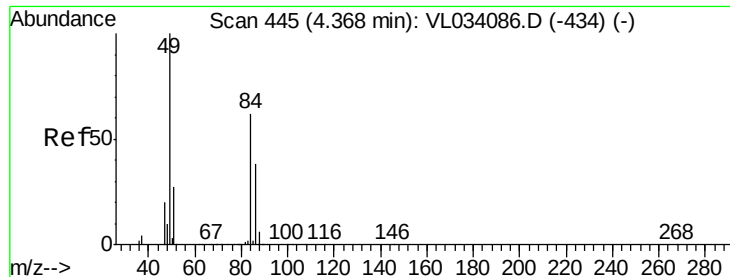
Tgt Ion: 39 Resp: 18586
Ion Ratio Lower Upper
39 100
54 6.2 62.7 94.1#



#19
Isopropyl Alcohol
Concen: 6.556 ppbv
RT: 3.99 min Scan# 327
Delta R.T. 0.00 min
Lab File: VL034110.D
Acq: 12 Aug 2019 19:08

Tgt Ion: 45 Resp: 877124
Ion Ratio Lower Upper
45 100
58 1.9 24.6 37.0#

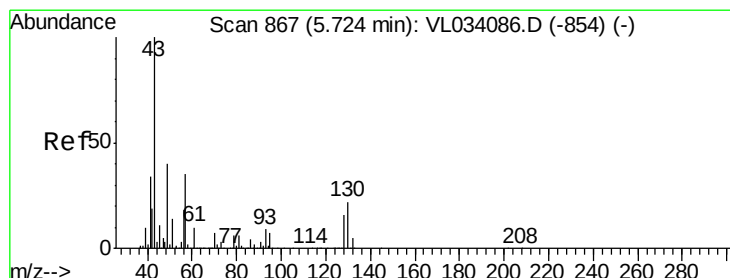
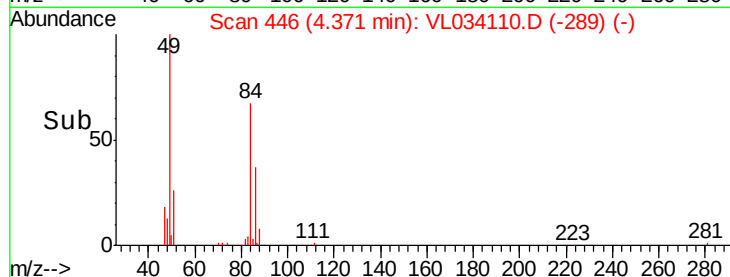
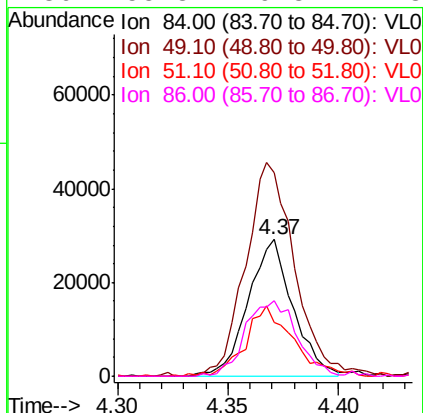
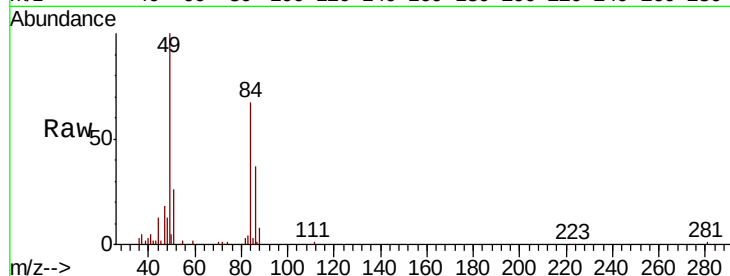




#20
Methylene Chloride
Concen: 0.803 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.00 min
Lab File: VL034110.D
Acq: 12 Aug 2019 19:08

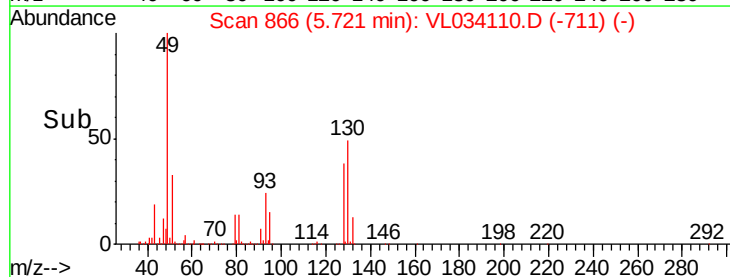
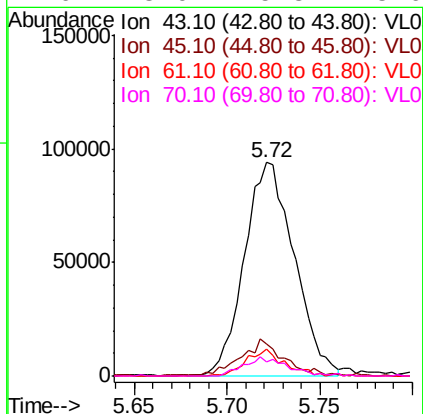
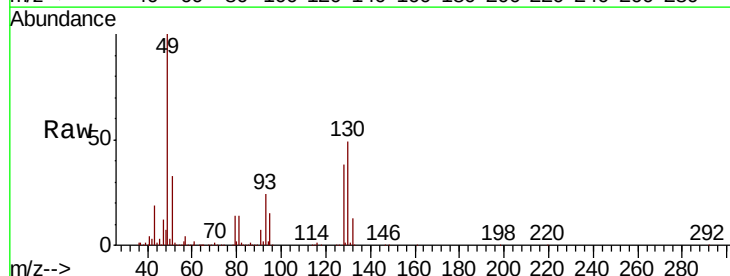
Instrument :
MSVOA_L
ClientSampleId :
SRS-0807-VI4DL

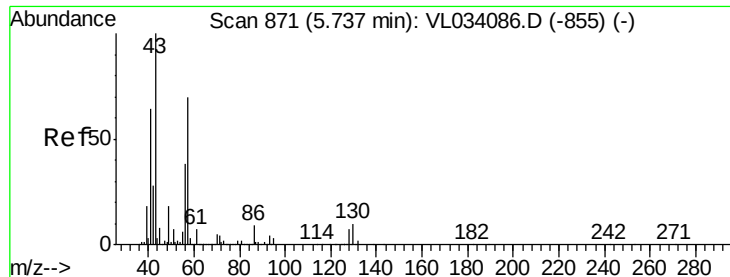
Tgt Ion:	84	Resp:	41368
Ion	Ratio	Lower	Upper
84	100		
49	149.5	129.7	194.5
51	37.4	35.8	53.8
86	55.3	49.8	74.8



#25
Ethyl Acetate
Concen: 0.518 ppbv
RT: 5.72 min Scan# 866
Delta R.T. -0.00 min
Lab File: VL034110.D
Acq: 12 Aug 2019 19:08

Tgt Ion:	43	Resp:	174922
Ion	Ratio	Lower	Upper
43	100		
45	15.6	8.4	12.6#
61	9.8	7.3	10.9
70	8.0	5.8	8.6

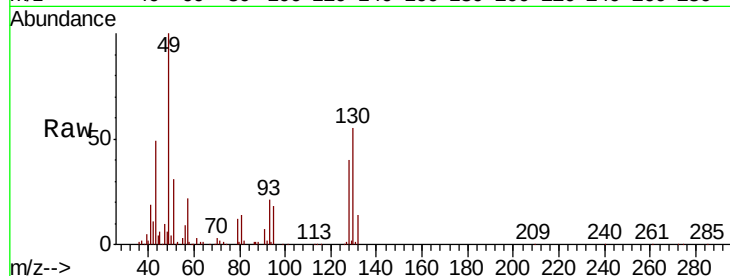




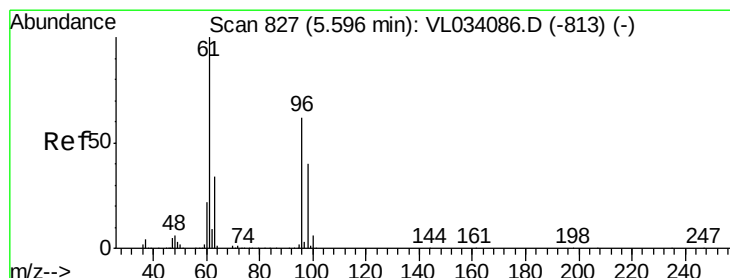
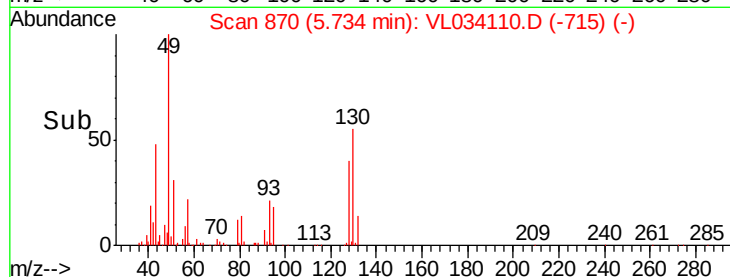
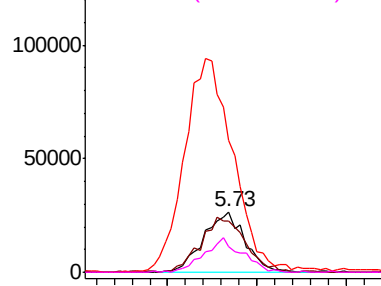
#26
Hexane
Concen: 0.299 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.00 min
Lab File: VL034110.D
Acq: 12 Aug 2019 19:08

Instrument :
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Tgt Ion:	57	Resp:	42843
Ion	Ratio	Lower	Upper
57	100		
41	99.9	75.7	113.5
43	420.0	189.8	284.8#
56	53.1	42.7	64.1

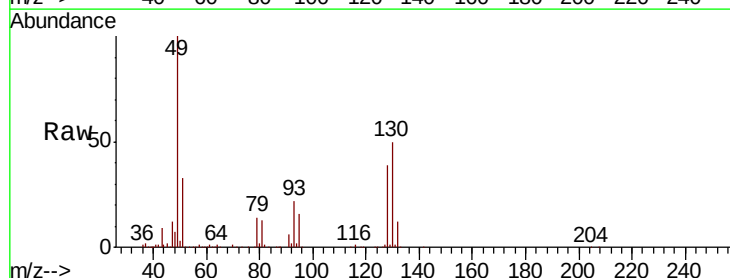


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

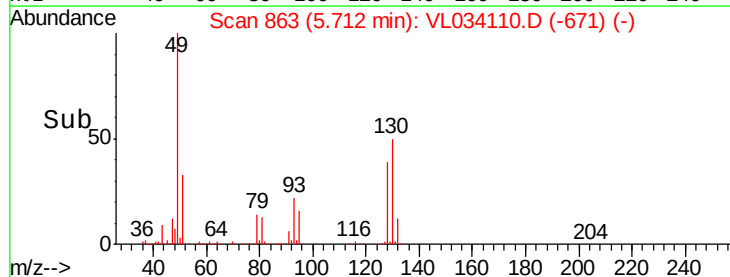
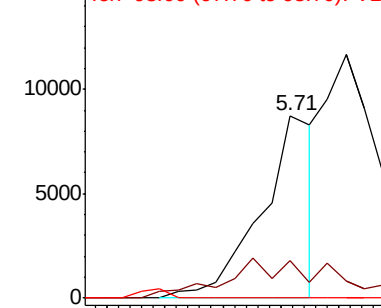


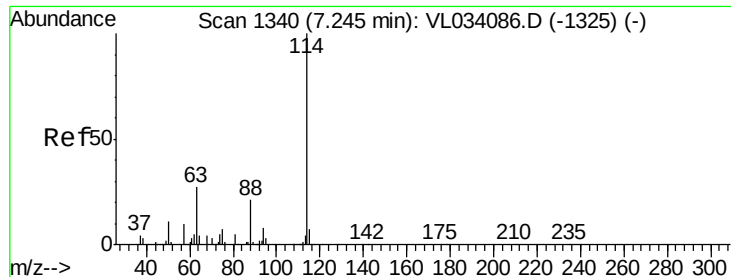
#31
cis-1,2-Dichloroethene
Concen: 0.039 ppbv
RT: 5.71 min Scan# 863
Delta R.T. 0.12 min
Lab File: VL034110.D
Acq: 12 Aug 2019 19:08

Tgt Ion:	61	Resp:	5583
Ion	Ratio	Lower	Upper
61	100		
96	16.9	49.3	73.9#
98	0.0	32.4	48.6#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

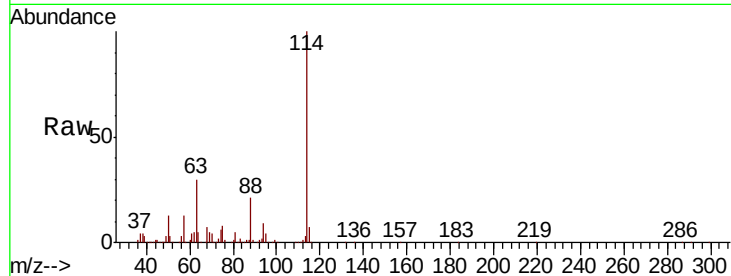




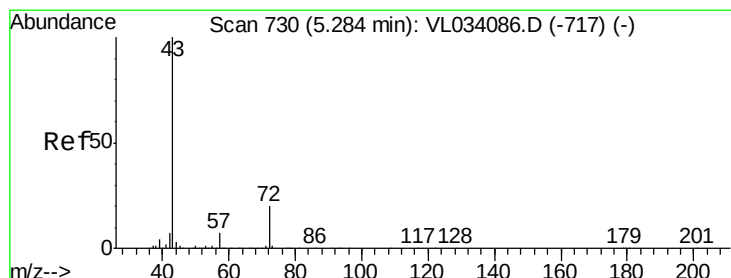
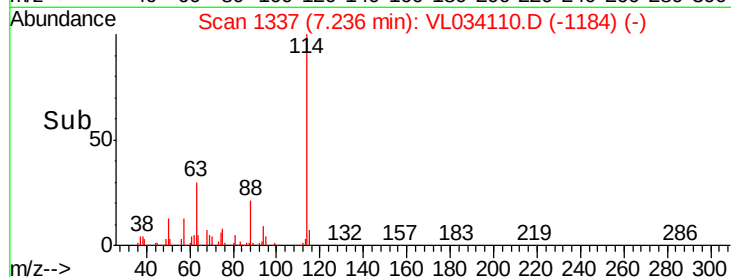
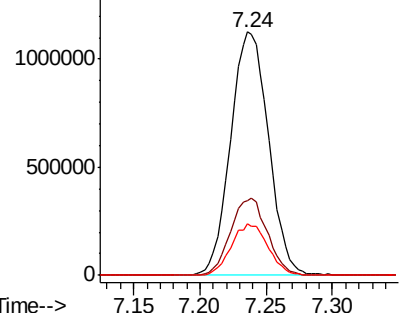
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VL034110.D
 Acq: 12 Aug 2019 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI4DL

Tgt Ion:114 Resp: 2231115
 Ion Ratio Lower Upper
 114 100
 63 30.9 22.5 33.7
 88 20.6 15.7 23.5

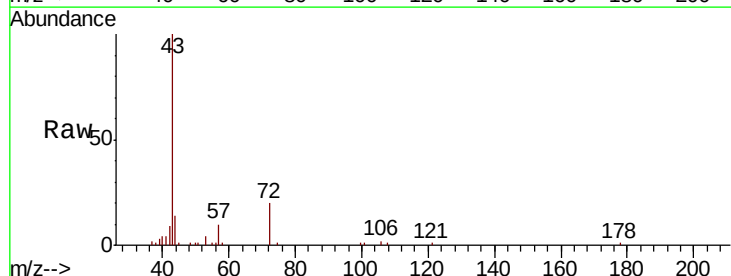


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

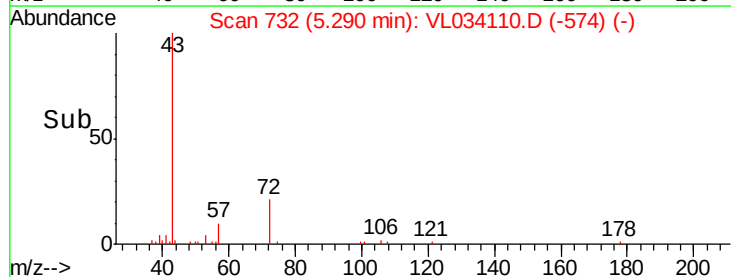
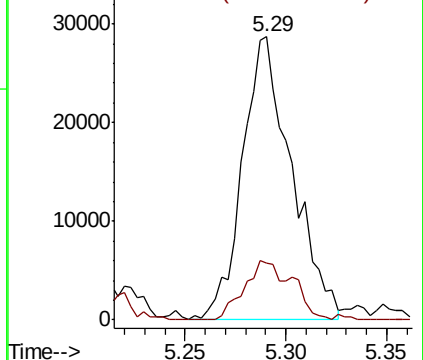


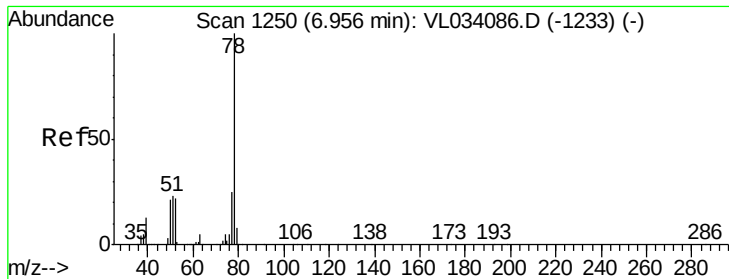
#34
 2-Butanone
 Concen: 0.236 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. 0.01 min
 Lab File: VL034110.D
 Acq: 12 Aug 2019 19:08

Tgt Ion: 43 Resp: 48980
 Ion Ratio Lower Upper
 43 100
 72 20.9 16.0 24.0



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





#36

Benzene

Concen: 0.050 ppbv

RT: 6.95 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI4DL

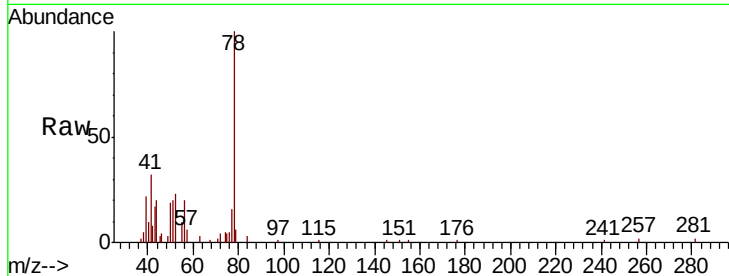
Tgt Ion: 78 Resp: 12801

Ion Ratio Lower Upper

78 100

77 16.5 19.9 29.9#

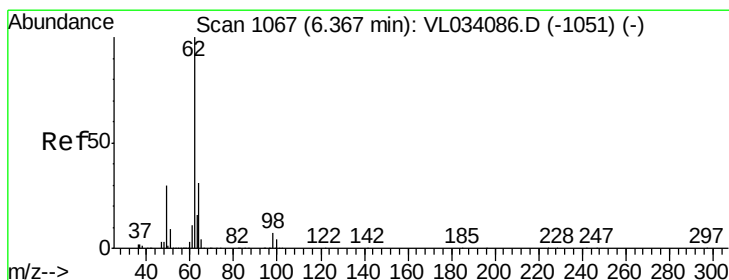
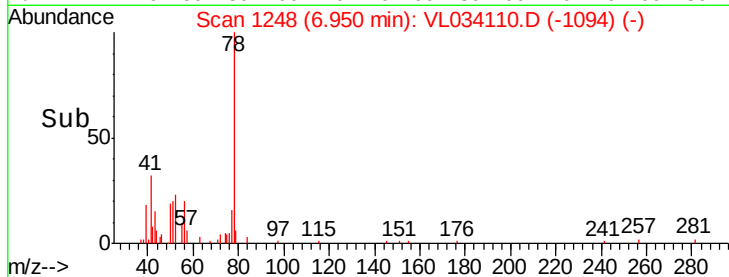
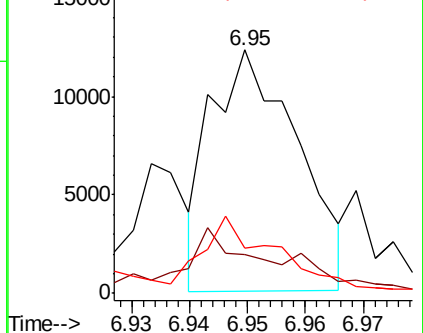
50 18.1 16.7 25.1



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



#37

1,2-Dichloroethane

Concen: 0.048 ppbv

RT: 6.36 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VL034110.D

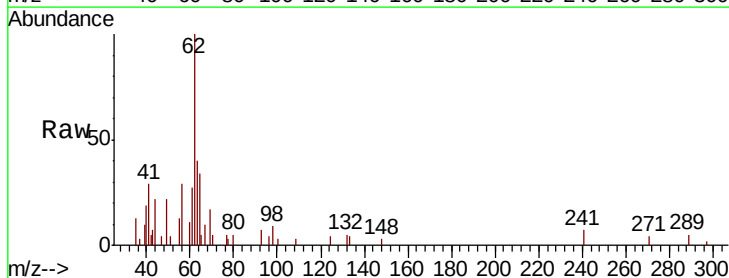
Acq: 12 Aug 2019 19:08

Tgt Ion: 62 Resp: 6535

Ion Ratio Lower Upper

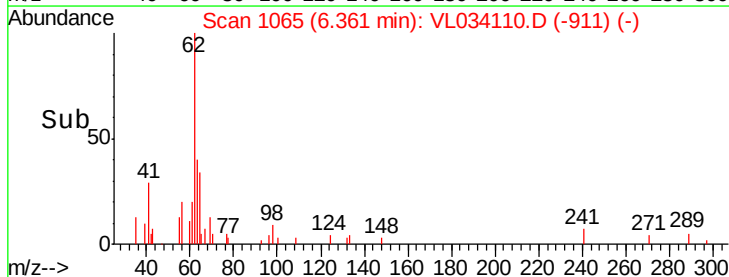
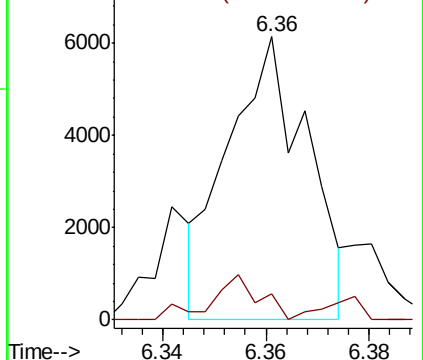
62 100

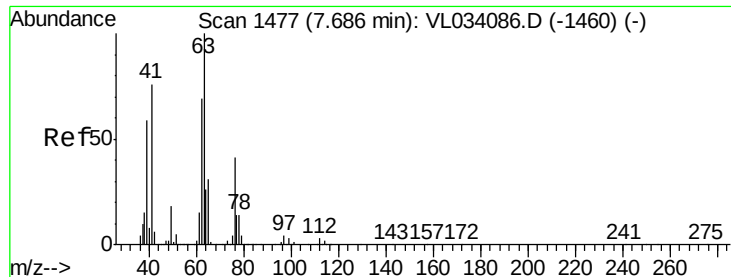
98 13.5 4.9 7.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 6.701 ppbv

RT: 7.24 min Scan# 1338

Delta R.T. -0.45 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

Instrument :

MSVOA_L

ClientSampleId :

SRS-0807-VI4DL

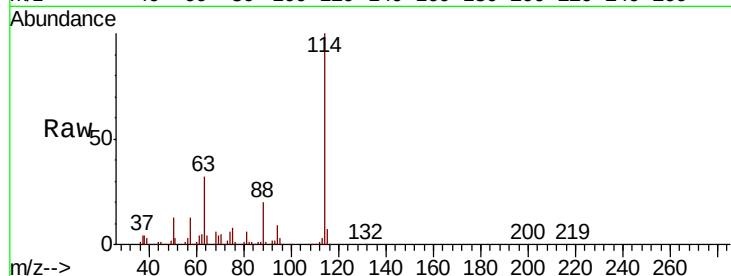
Tgt Ion: 63 Resp: 685647

Ion Ratio Lower Upper

63 100

41 0.0 60.6 91.0#

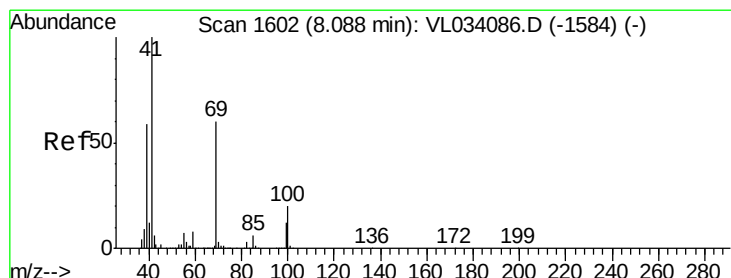
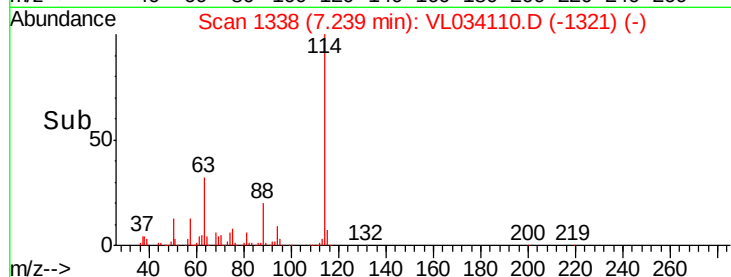
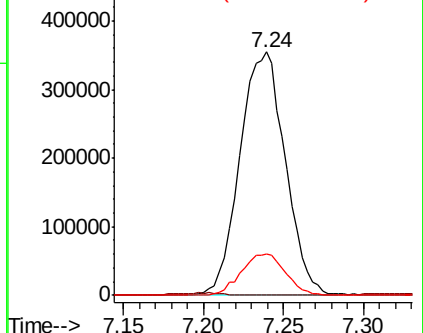
62 17.0 55.0 82.6#



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



#43

Methyl Methacrylate

Concen: 0.891 ppbv

RT: 8.08 min Scan# 1601

Delta R.T. -0.00 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

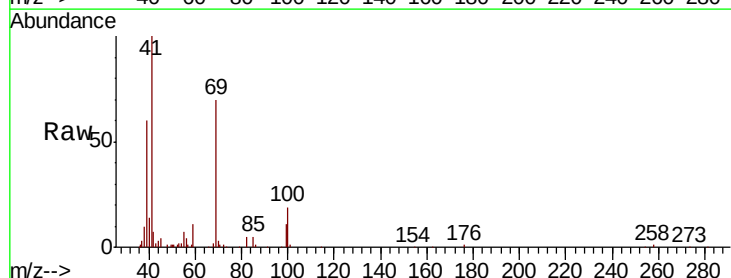
Tgt Ion: 69 Resp: 92716

Ion Ratio Lower Upper

69 100

41 165.8 132.9 199.3

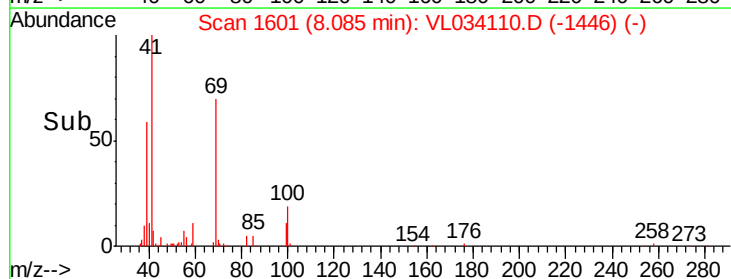
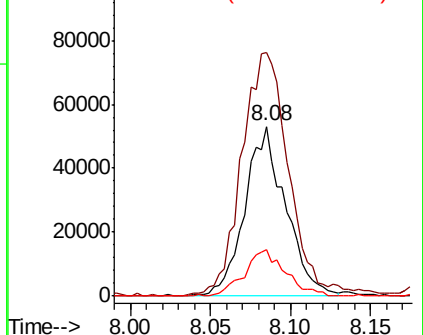
100 27.7 25.8 38.8

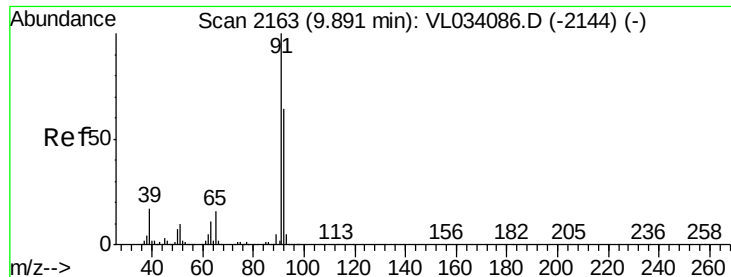


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#53

Toluene

Concen: 3.066 ppbv

RT: 9.88 min Scan# 2160

Delta R.T. -0.01 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

Instrument :

MSVOA_L

ClientSampleId :

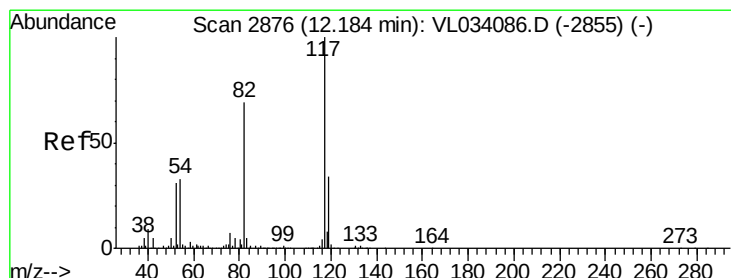
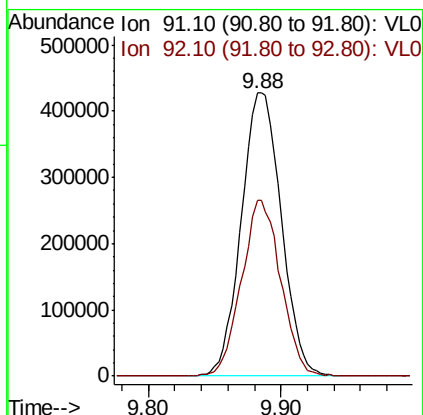
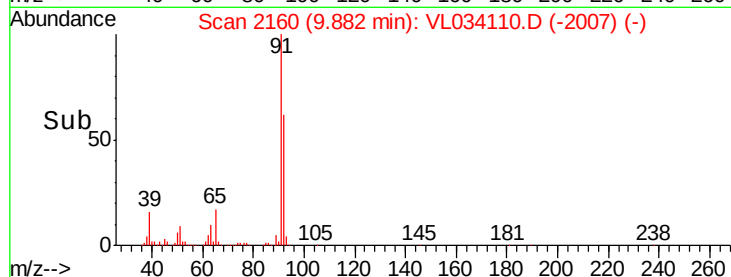
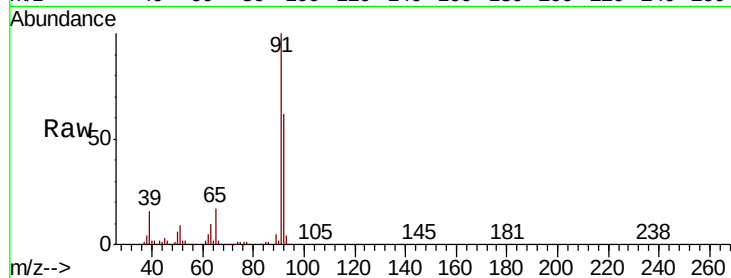
SRS-0807-VI4DL

Tgt Ion: 91 Resp: 897271

Ion Ratio Lower Upper

91 100

92 60.9 50.3 75.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2874

Delta R.T. -0.01 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

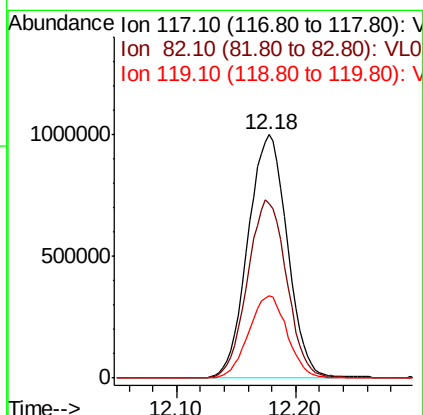
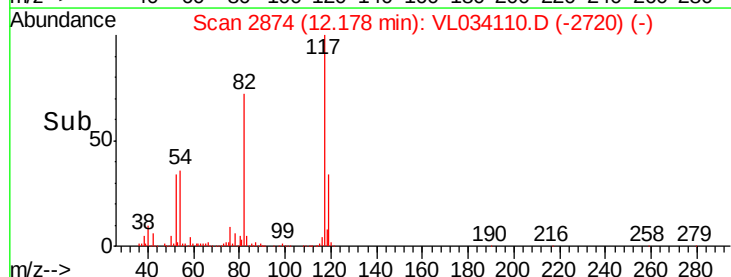
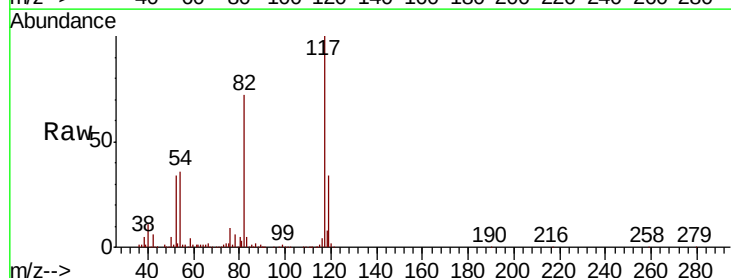
Tgt Ion: 117 Resp: 2293732

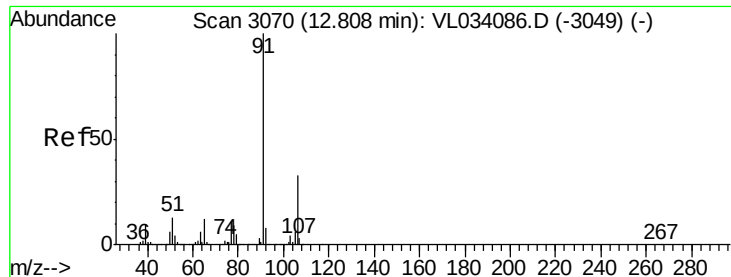
Ion Ratio Lower Upper

117 100

82 73.3 52.2 78.4

119 33.2 44.8 67.2#





#58

Ethyl Benzene

Concen: 0.123 ppbv

RT: 12.80 min Scan# 3067

Delta R.T. -0.01 min

Lab File: VL034110.D

Acq: 12 Aug 2019 19:08

Instrument :

MSVOA_L

ClientSampleId :

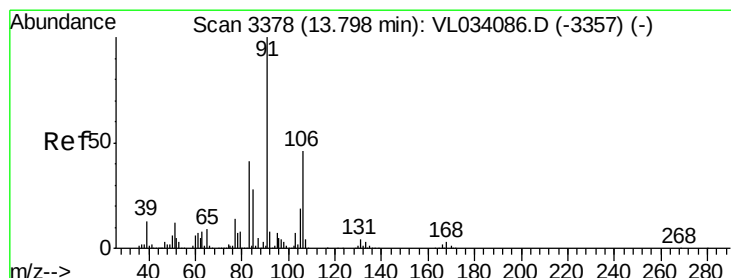
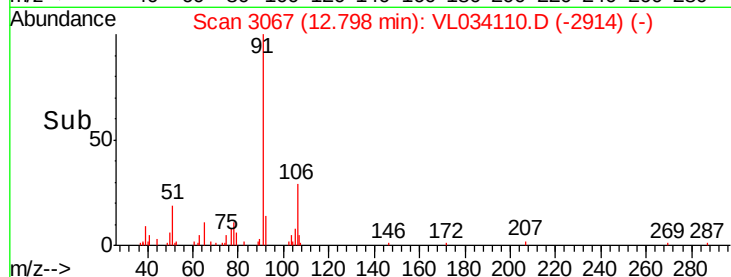
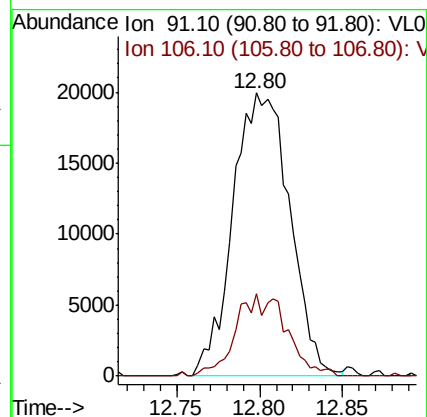
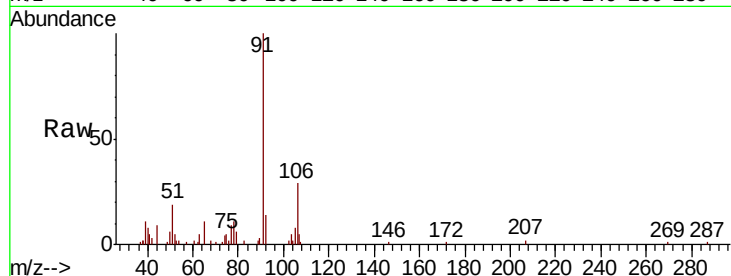
SRS-0807-VI4DL

Tgt Ion: 91 Resp: 47463

Ion Ratio Lower Upper

91 100

106 28.9 26.0 39.0



#60

o-Xylene

Concen: 0.071 ppbv

RT: 13.79 min Scan# 3377

Delta R.T. -0.00 min

Lab File: VL034110.D

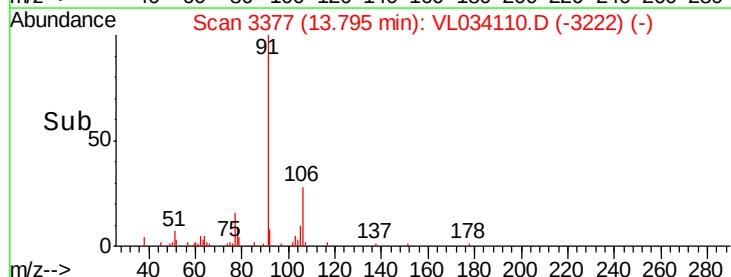
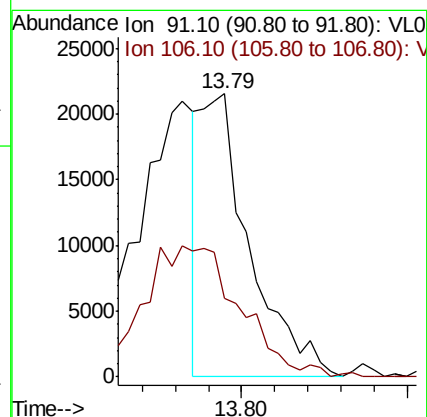
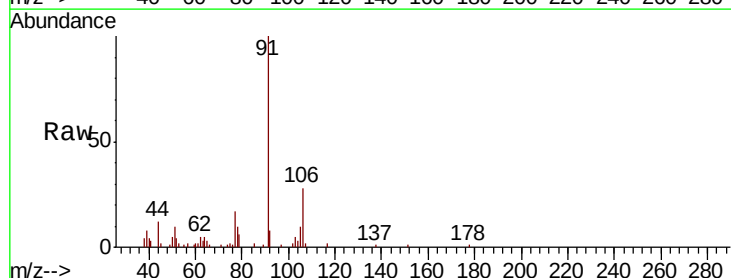
Acq: 12 Aug 2019 19:08

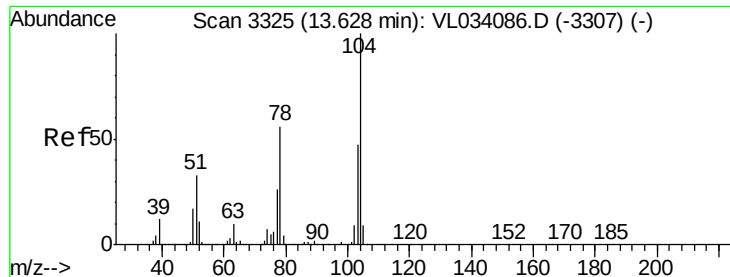
Tgt Ion: 91 Resp: 21929

Ion Ratio Lower Upper

91 100

106 0.0 22.6 67.7#

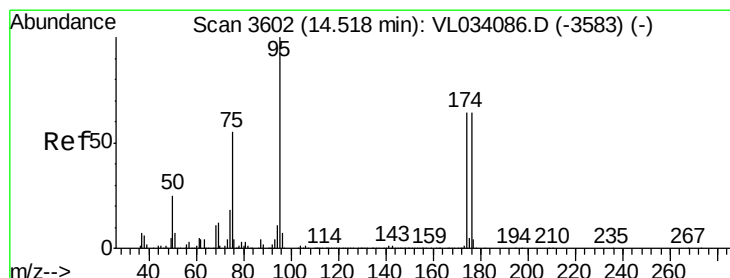
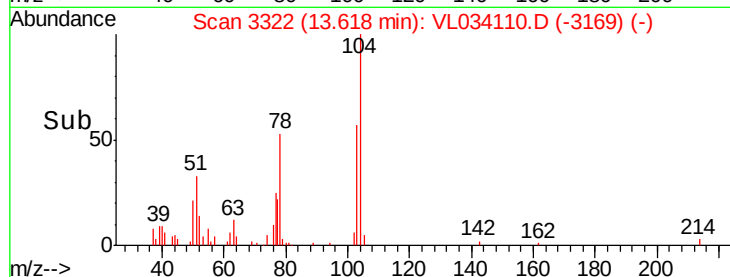
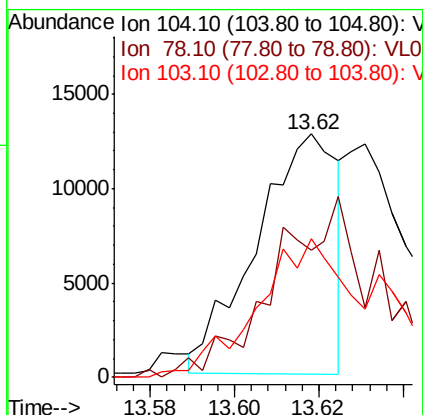
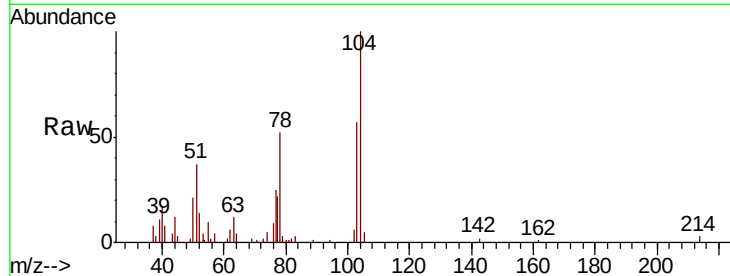




#61
 Styrene
 Concen: 0.070 ppbv
 RT: 13.62 min Scan# 3322
 Delta R.T. -0.01 min
 Lab File: VL034110.D
 Acq: 12 Aug 2019 19:08

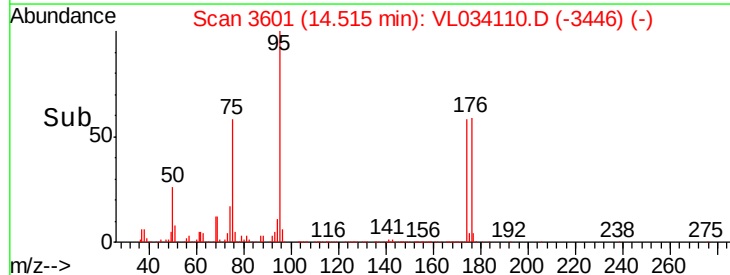
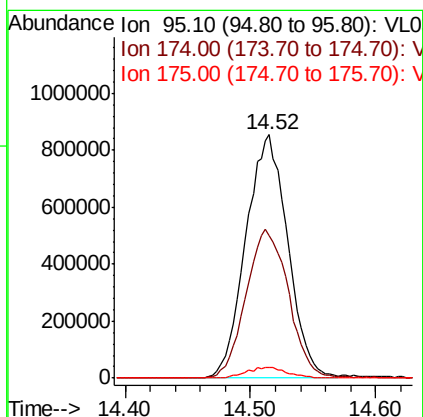
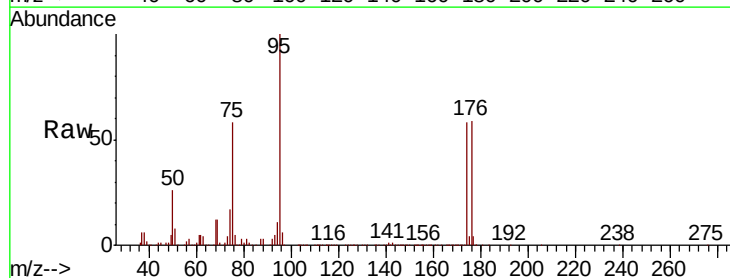
Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI4DL

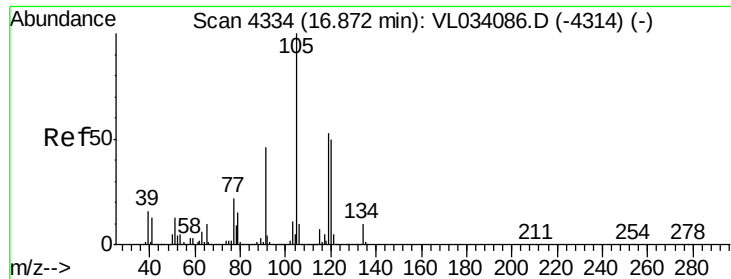
Tgt Ion: 104 Resp: 17081
 Ion Ratio Lower Upper
 104 100
 78 0.0 44.2 66.4#
 103 87.1 38.3 57.5#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.640 ppbv
 RT: 14.52 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VL034110.D
 Acq: 12 Aug 2019 19:08

Tgt Ion: 95 Resp: 1980271
 Ion Ratio Lower Upper
 95 100
 174 62.7 53.0 79.6
 175 4.4 4.2 6.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.036 ppbv
 RT: 16.86 min Scan# 4330
 Delta R.T. -0.01 min
 Lab File: VL034110.D
 Acq: 12 Aug 2019 19:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SRS-0807-VI4DL

Tgt Ion:	105	Resp:	13226
Ion	Ratio	Lower	Upper
105	100		
120	45.8	40.2	60.4
91	21.0	38.1	57.1#
77	18.7	17.8	26.8

