

Data File : VL033990.D
Acq On : 2 Jul 2019 14:21
Operator : SY/AP
Sample : VSTDIC002
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Jul 02 16:32:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 16:27:55 2019
QLast Update : Tue Jul 02 16:27:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1165030	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2987865	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2991738	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	3077754	12.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	125.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	457567	2.420	ppbv	99
3) Chlorodifluoromethane	3.00	51	286488	2.089	ppbv	98
4) Chloromethane	3.16	50	169327	2.164	ppbv	99
5) Vinyl Chloride	3.27	62	182192	2.510	ppbv	94
6) Bromomethane	3.50	94	117934	2.446	ppbv	94
7) Chloroethane	3.58	64	68895	2.400	ppbv	96
8) Dichlorotetrafluoroethane	3.20	85	485874	2.405	ppbv	98
9) Propene	3.02	41	112196	2.186	ppbv	100
10) Heptane	8.21	43	280034	2.159	ppbv	100
11) Trichlorofluoromethane	3.98	101	520895	2.135	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.53	101	367107	2.227	ppbv	100
13) Ethanol	3.63	45	35886	2.149	ppbv #	35
14) Bromoethene	3.77	108	152942	2.490	ppbv	98
15) Acetone	3.89	43	382981	2.254	ppbv	98
16) 1,3-Butadiene	3.35	39	146847	2.271	ppbv	97
17) tert-Butyl alcohol	4.34	59	151180	1.138	ppbv #	73
18) 1,1-Dichloroethene	4.33	96	164371	2.361	ppbv	97
19) Isopropyl Alcohol	4.01	45	247149	2.546	ppbv #	97
20) Methylene Chloride	4.39	84	171800	2.593	ppbv	92
21) Allyl Chloride	4.46	41	234057	2.425	ppbv	99
22) trans-1,2-Dichloroethene	4.94	96	163231	2.224	ppbv	98
23) Vinyl Acetate	5.13	43	429351	2.174	ppbv	98
24) 1,1-Dichloroethane	5.07	63	364234	2.371	ppbv	98
25) Ethyl Acetate	5.74	43	568286	2.196	ppbv	99
26) Hexane	5.75	57	262487	2.228	ppbv	98
27) Carbon Disulfide	4.60	76	387283	2.366	ppbv	96
28) Methyl tert-Butyl Ether	5.09	73	445856	2.503	ppbv	98
29) Chloroform	5.82	83	478212	2.370	ppbv	99
30) Cyclohexane	7.21	84	106508	1.279	ppbv #	1
31) cis-1,2-Dichloroethene	5.62	61	250154	2.421	ppbv	95
32) 1,1,1-Trichloroethane	6.59	97	465885	2.393	ppbv	99
34) 2-Butanone	5.31	43	353732	2.099	ppbv	96
35) Carbon Tetrachloride	7.10	117	471336	2.042	ppbv	94
36) Benzene	6.98	78	496253	2.174	ppbv	95
37) 1,2-Dichloroethane	6.38	62	360718	2.137	ppbv	99
38) Trichloroethene	7.93	130	214852	2.418	ppbv	91
39) 1,2-Dichloropropane	7.70	63	181983	2.066	ppbv	93
40) 1,4-Dioxane	7.91	88	1391	0.039	ppbv #	1
41) Tetrahydrofuran	6.13	42	171422	2.004	ppbv	96
42) Bromodichloromethane	7.89	83	485747	2.153	ppbv	89
43) Methyl Methacrylate	8.10	69	185553	2.174	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.96	57	869410	2.142	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	234657	2.095	ppbv	99
46) cis-1,3-Dichloropropene	8.80	75	272849	2.126	ppbv	92
47) 1,1,2-Trichloroethane	9.57	97	122290	1.165	ppbv	90
48) Dibromochloromethane	10.42	129	399609	2.117	ppbv	99
49) Bromoform	13.16	173	225235	1.352	ppbv #	52
50) 4-Methyl-2-Pentanone	8.85	43	508986	2.025	ppbv	99
51) 2-Hexanone	10.25	43	390006	1.987	ppbv #	97
52) Tetrachloroethene	11.34	164	204475	2.546	ppbv	93
53) Toluene	9.91	91	580186	2.297	ppbv	98
54) 1,2-Dibromoethane	10.72	107	244927	1.547	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.24	131	283284	2.168	ppbv #	1
57) Chlorobenzene	12.26	112	497039	2.218	ppbv #	93
58) Ethyl Benzene	12.83	91	789713	2.341	ppbv	94
59) m/p-Xylene	13.11	91	542827	1.770	ppbv #	31
60) o-Xylene	13.81	91	732668	2.313	ppbv	97
61) Styrene	13.65	104	473655	2.311	ppbv	97
62) Isopropylbenzene	14.79	105	1284148	3.008	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.80	83	511161	2.144	ppbv	100
64) n-propylbenzene	15.68	120	182178	1.667	ppbv #	1
65) tert-Butylbenzene	16.87	119	911695	2.308	ppbv	99
66) Benzyl Chloride	17.12	91	424390	2.120	ppbv	99
67) sec-Butylbenzene	17.42	105	1258868	2.272	ppbv	99
69) p-Isopropyltoluene	17.78	119	1061104	2.302	ppbv	99
70) n-Butylbenzene	18.68	91	1102087	2.183	ppbv	99
71) 2-Chlorotoluene	15.58	91	966120	3.072	ppbv	98
72) 4-Ethyltoluene	15.96	105	1081830	3.002	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	812162	2.288	ppbv	98
74) 1,2,4-Trimethylbenzene	16.89	105	901176	2.203	ppbv	97
75) 1,3-Dichlorobenzene	17.13	146	557792	2.177	ppbv	99
76) 1,4-Dichlorobenzene	17.27	146	529783	2.252	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	265283	1.122	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.50	225	227175	1.230	ppbv #	18
79) Naphthalene	22.36	128	430174	1.315	ppbv	99
80) Naphthalene,2-methyl-	25.08	142	344329	2.639	ppbv	95
81) 1,2,4-Trichlorobenzene	22.09	180	498176	2.413	ppbv	98

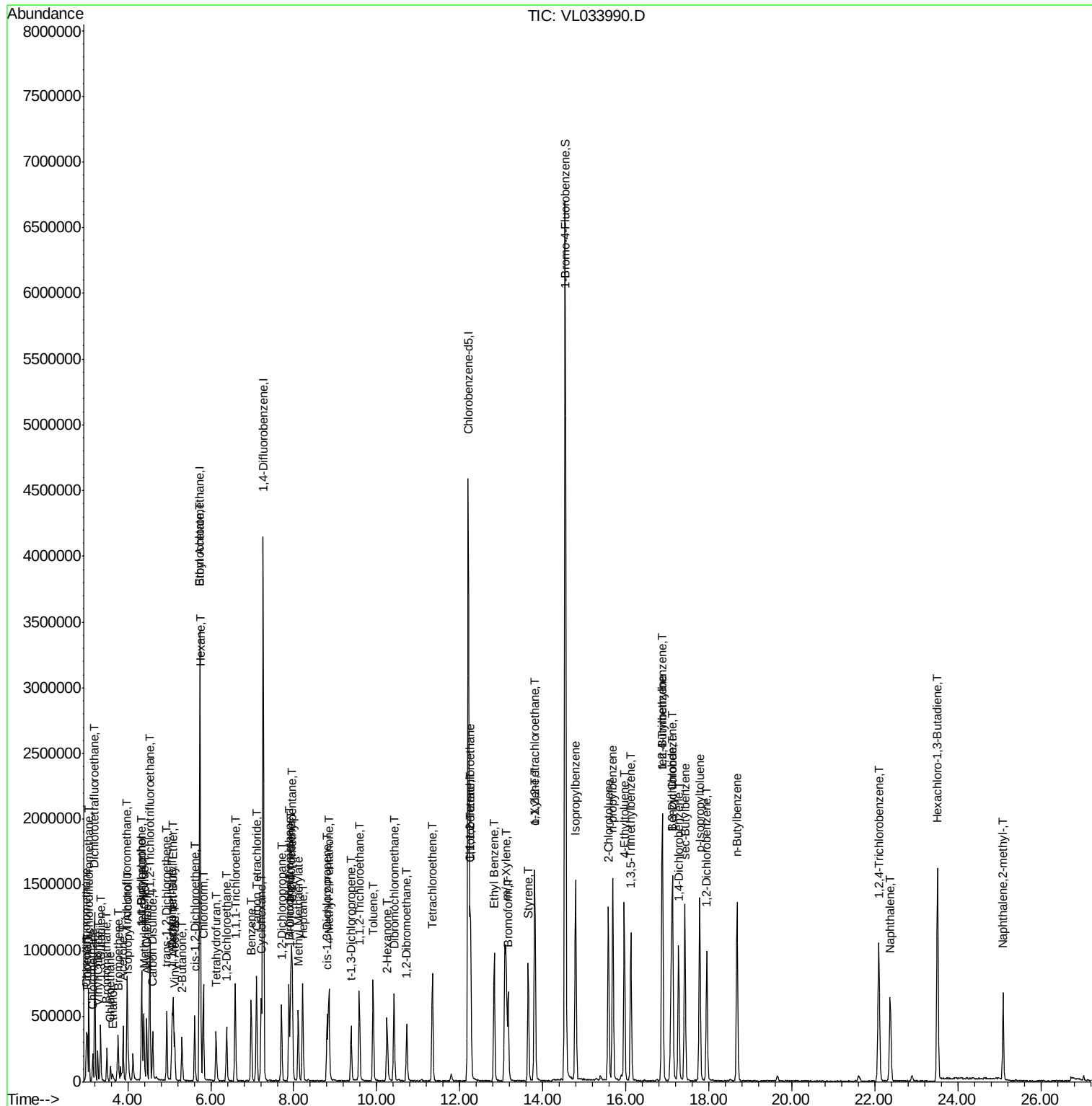
(#) = qualifier out of range (m) = manual integration (+) = signals summed

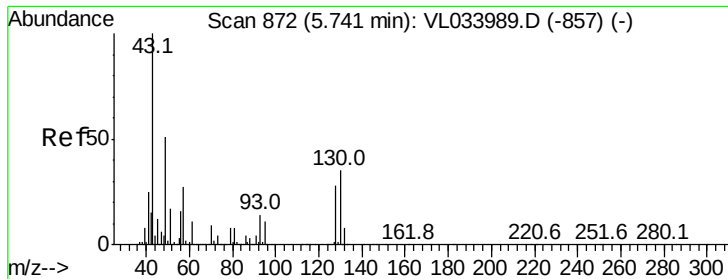
Data File : VL033990.D

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Sample      : VSTDICC002
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ClientSampleId :
VSTDICC002

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

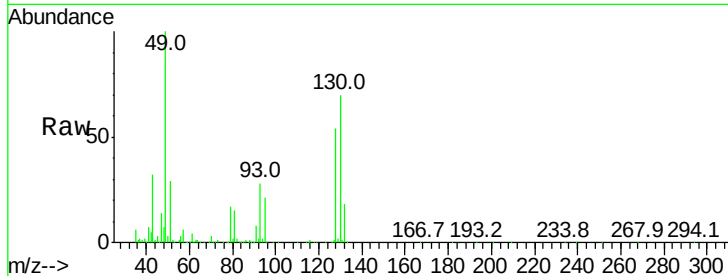
Tgt Ion: 49 Resp: 1165030

Ion Ratio Lower Upper

49 100

128 55.7 27.9 83.6

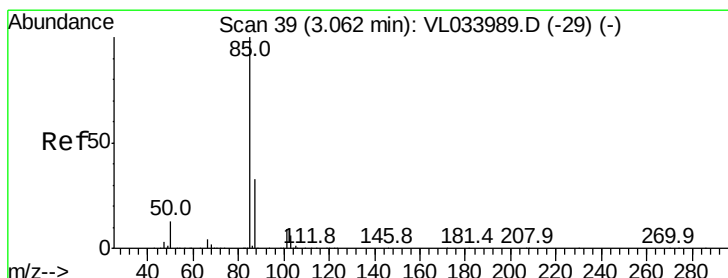
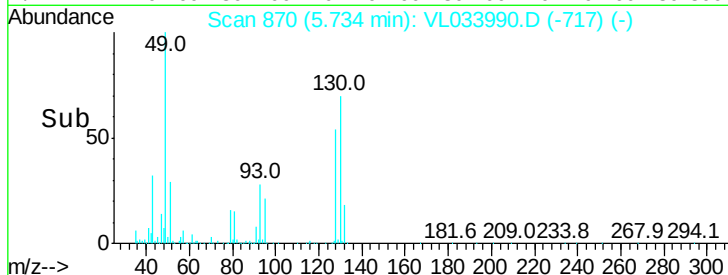
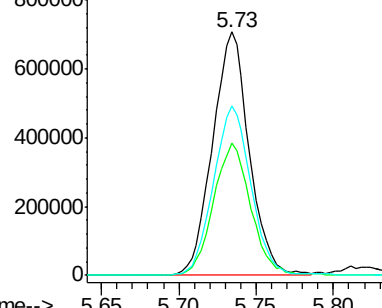
130 71.8 35.8 107.4



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: 2.420 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.00 min

Lab File: VL033990.D

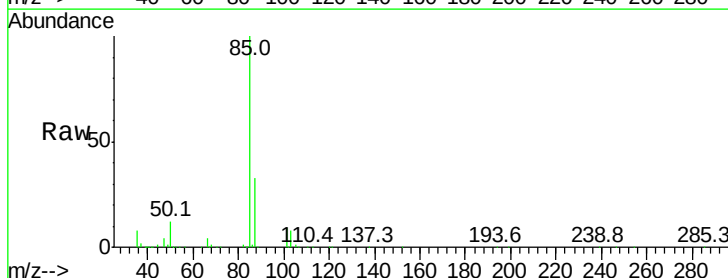
Acq: 2 Jul 2019 14:21

Tgt Ion: 85 Resp: 457567

Ion Ratio Lower Upper

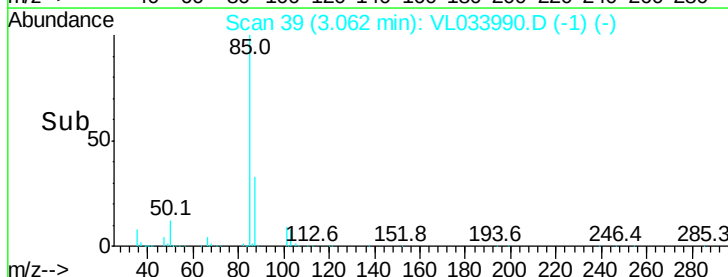
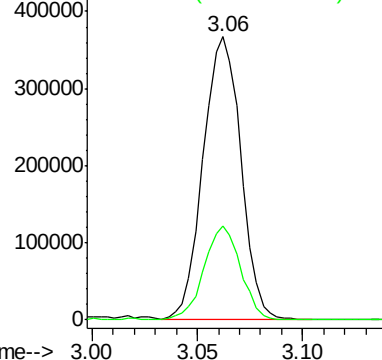
85 100

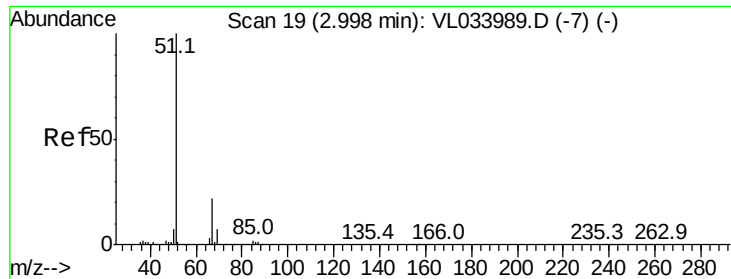
87 33.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

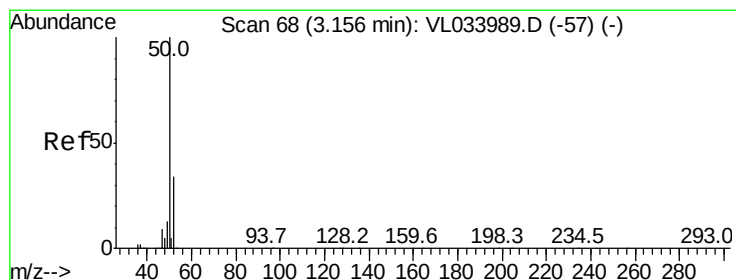
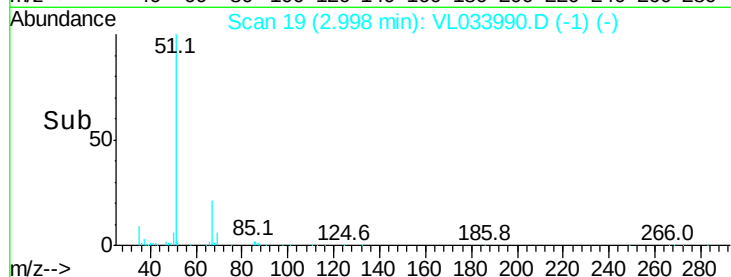
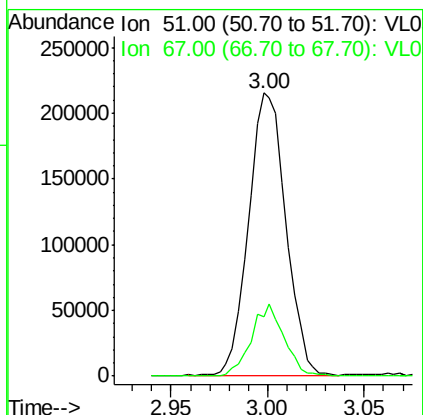
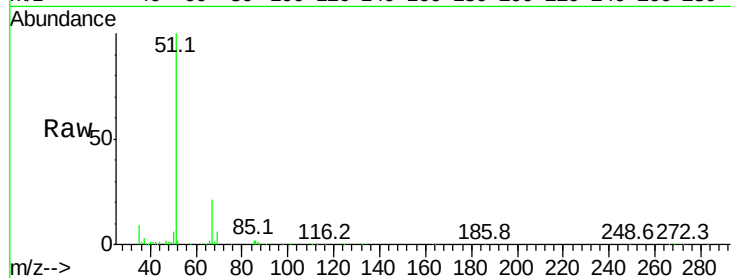




#3
 Chlorodifluoromethane
 Concen: 2.089 ppbv
 RT: 3.00 min Scan# 19
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

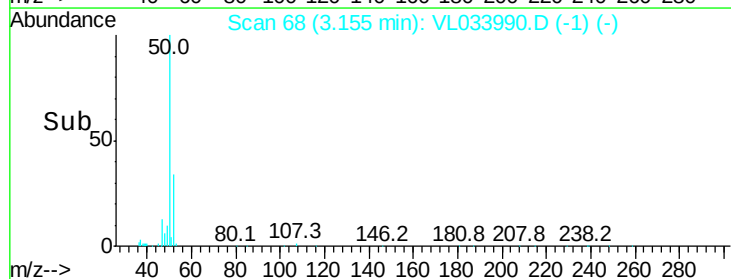
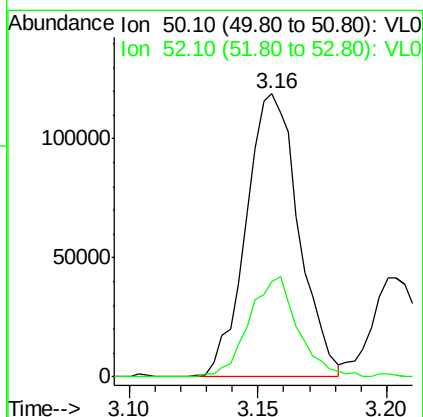
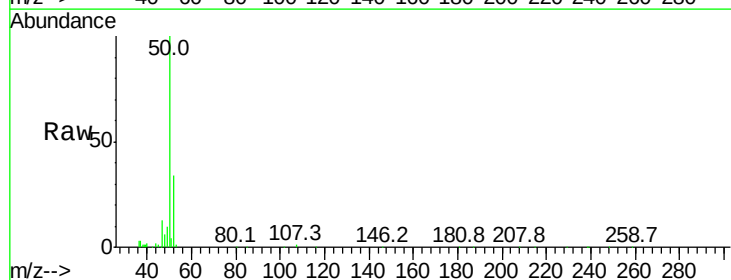
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

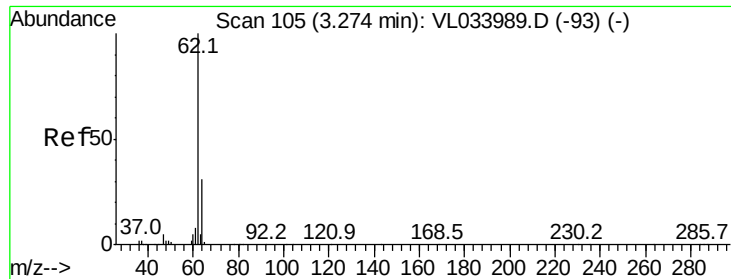
Tgt Ion: 51 Resp: 286488
 Ion Ratio Lower Upper
 51 100
 67 22.6 17.3 25.9



#4
 Chloromethane
 Concen: 2.164 ppbv
 RT: 3.16 min Scan# 68
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion: 50 Resp: 169327
 Ion Ratio Lower Upper
 50 100
 52 33.8 27.4 41.0





#5

Vinyl Chloride

Concen: 2.510 ppbv

RT: 3.27 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

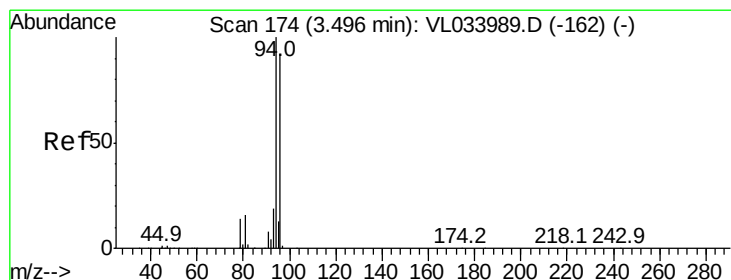
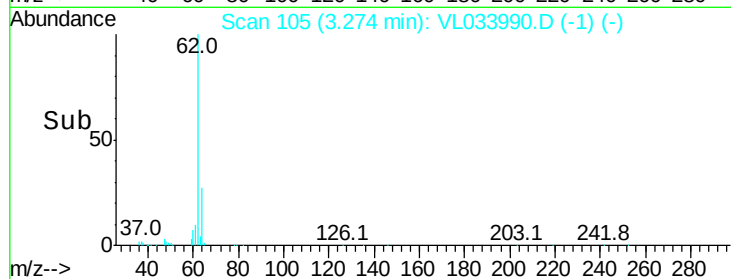
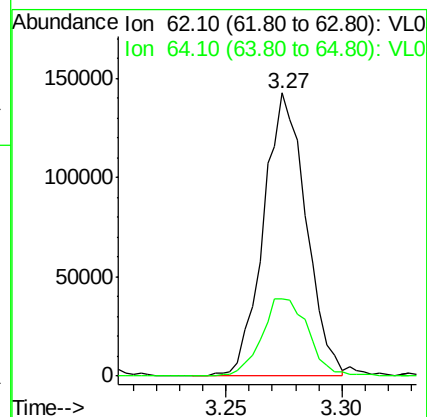
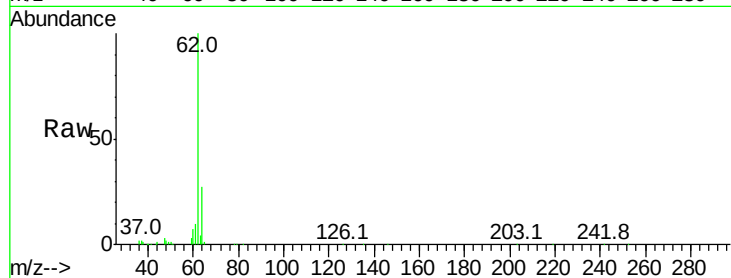
VSTDIC002

Tgt Ion: 62 Resp: 182192

Ion Ratio Lower Upper

62 100

64 27.4 24.4 36.6



#6

Bromomethane

Concen: 2.446 ppbv

RT: 3.50 min Scan# 174

Delta R.T. -0.00 min

Lab File: VL033990.D

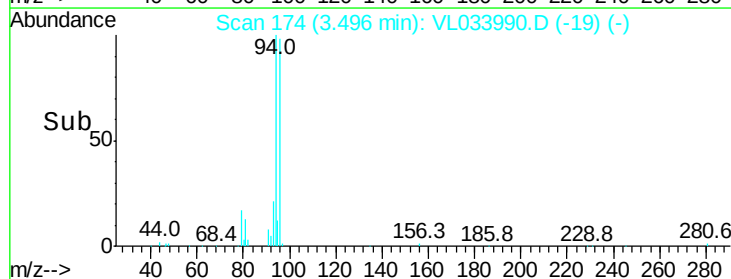
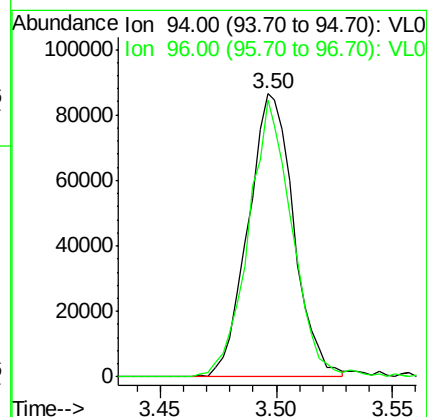
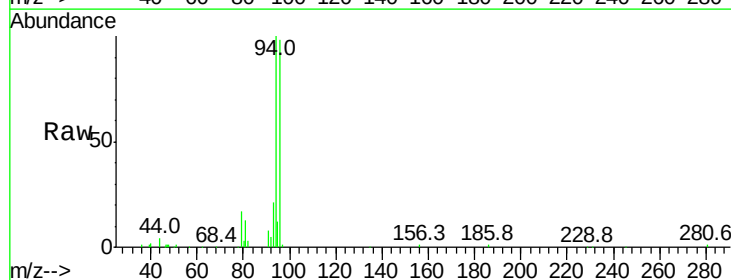
Acq: 2 Jul 2019 14:21

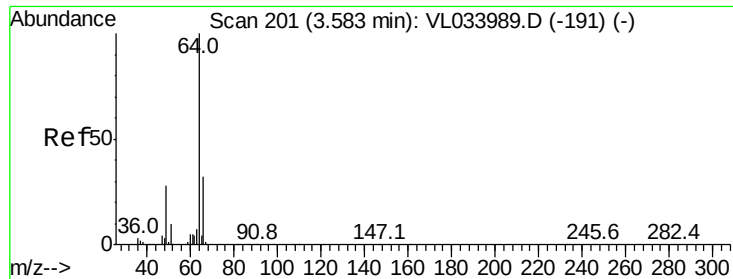
Tgt Ion: 94 Resp: 117934

Ion Ratio Lower Upper

94 100

96 97.8 73.8 110.8





#7

Chloroethane

Concen: 2.400 ppbv

RT: 3.58 min Scan# 201

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

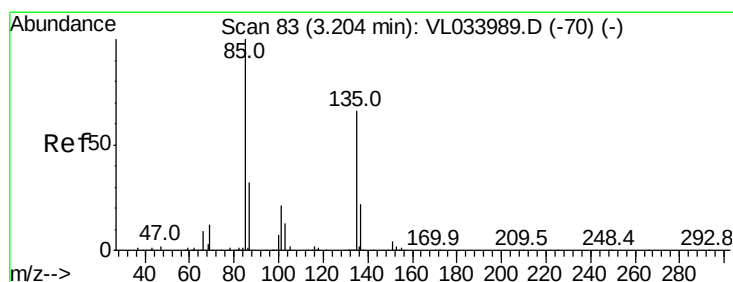
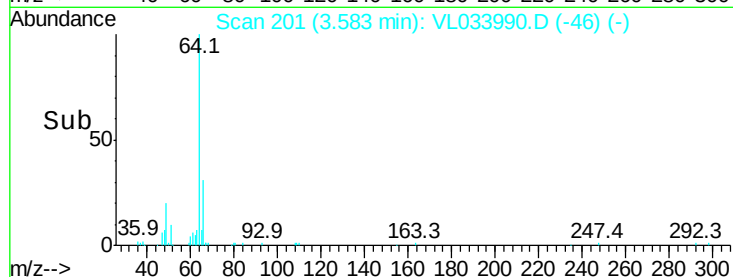
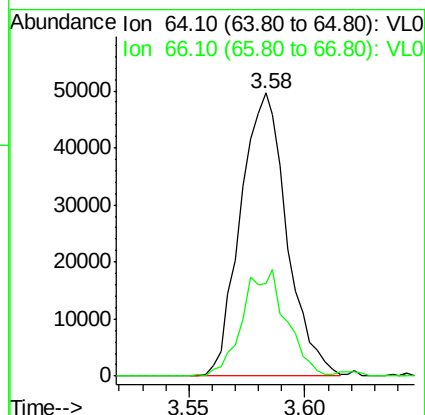
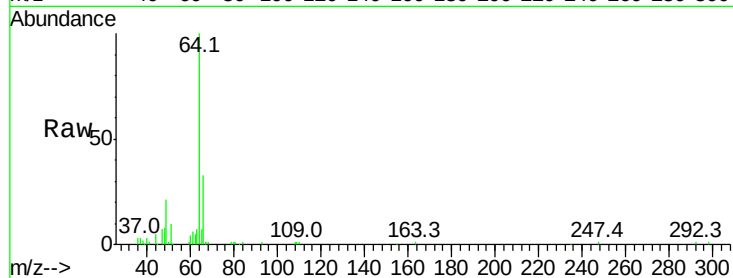
VSTDIC002

Tgt Ion: 64 Resp: 68895

Ion Ratio Lower Upper

64 100

66 33.6 25.3 37.9



#8

Dichlorotetrafluoroethane

Concen: 2.405 ppbv

RT: 3.20 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL033990.D

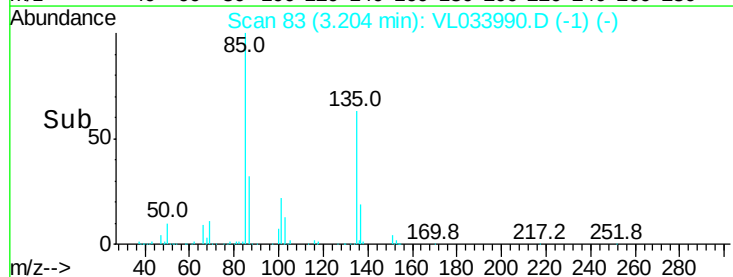
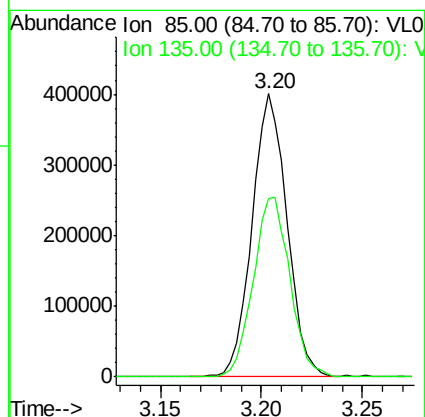
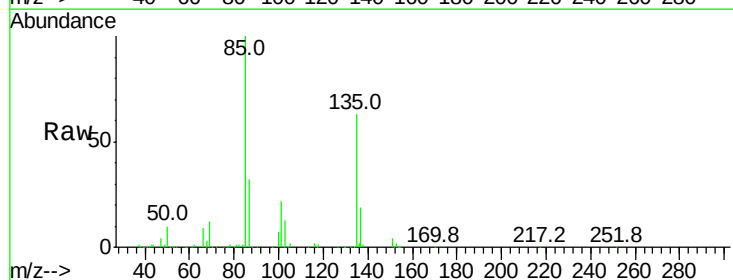
Acq: 2 Jul 2019 14:21

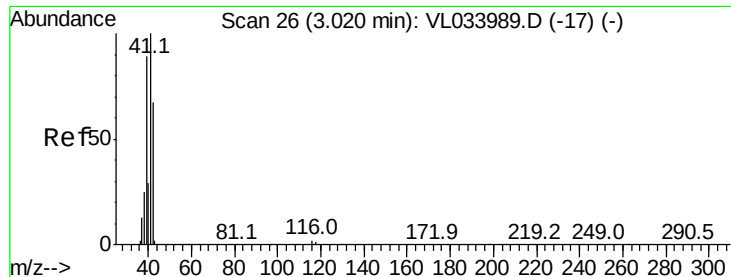
Tgt Ion: 85 Resp: 485874

Ion Ratio Lower Upper

85 100

135 66.8 55.0 82.4





#9

Propene

Concen: 2.186 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL033990.D

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Instrument :

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ClientSampleId :

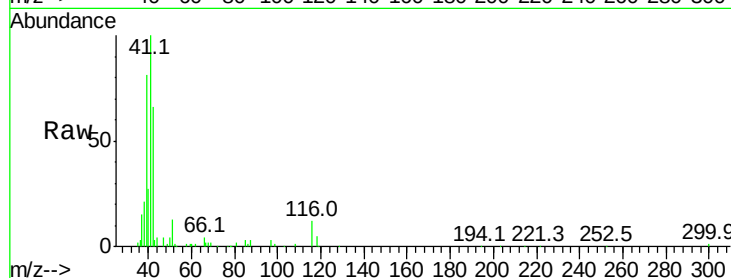
VSTDIC002

Tgt Ion: 41 Resp: 112196

Ion Ratio Lower Upper

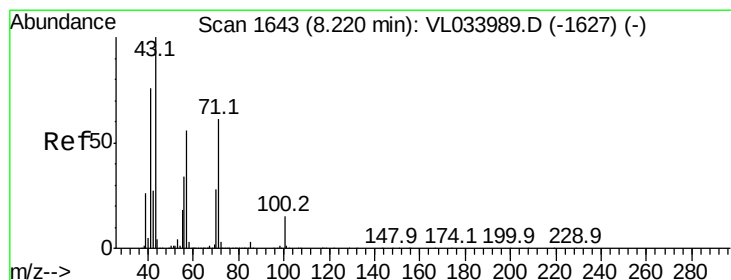
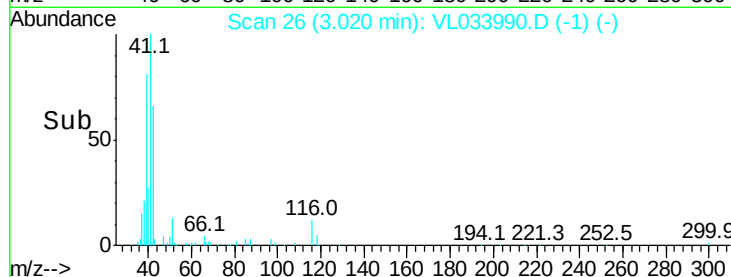
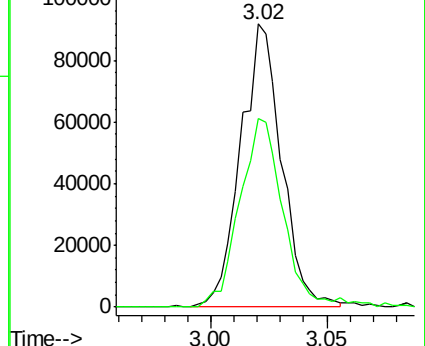
41 100

42 71.8 57.1 85.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.159 ppbv

RT: 8.21 min Scan# 1640

Delta R.T. -0.01 min

Lab File: VL033990.D

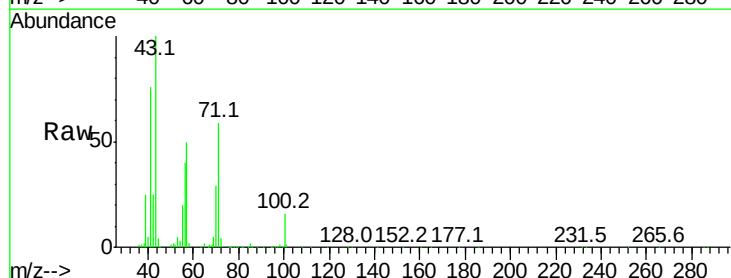
Acq: 2 Jul 2019 14:21

Tgt Ion: 43 Resp: 280034

Ion Ratio Lower Upper

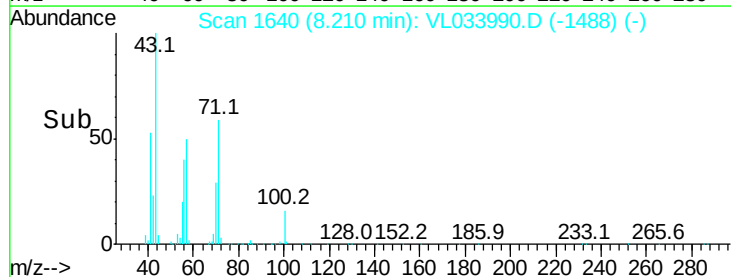
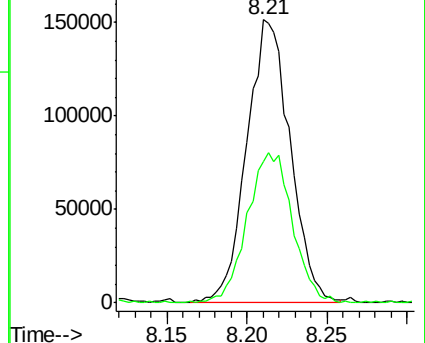
43 100

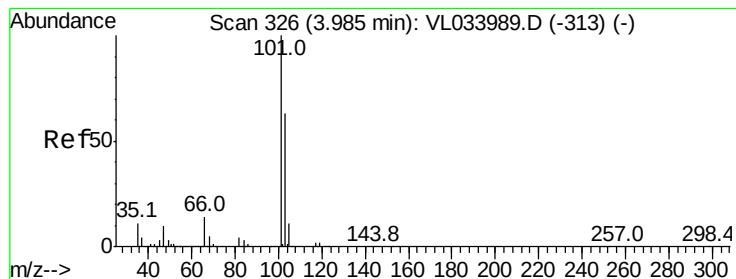
57 55.7 44.6 66.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 2.135 ppbv

RT: 3.98 min Scan# 326

Delta R.T. -0.00 min

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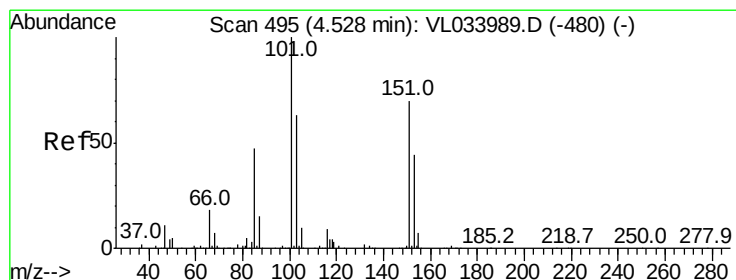
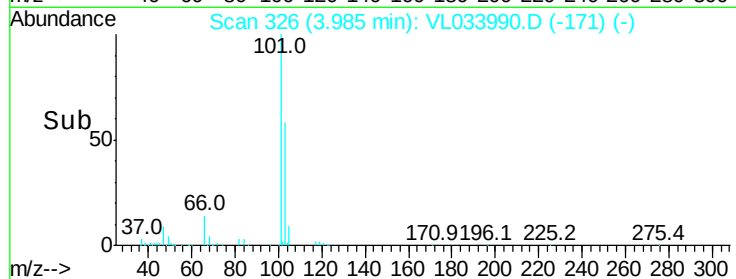
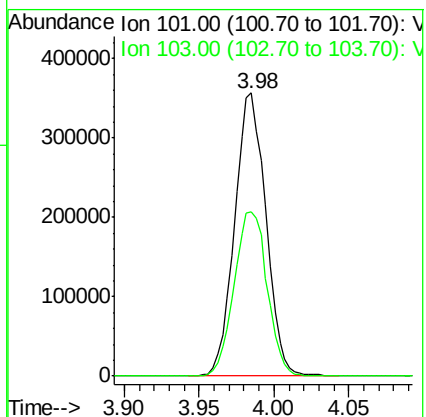
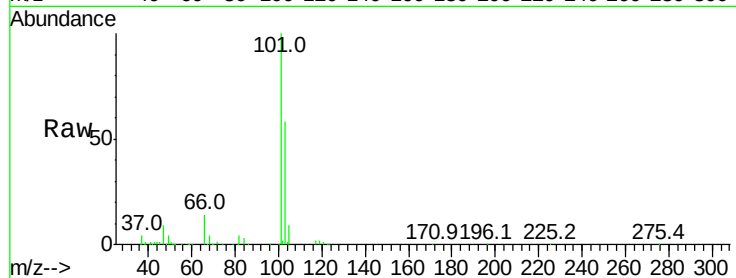
VSTDIC002

Tgt Ion:101 Resp: 520895

Ion Ratio Lower Upper

101 100

103 58.0 50.8 76.2



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.227 ppbv

RT: 4.53 min Scan# 495

Delta R.T. -0.00 min

Lab File: VL033990.D

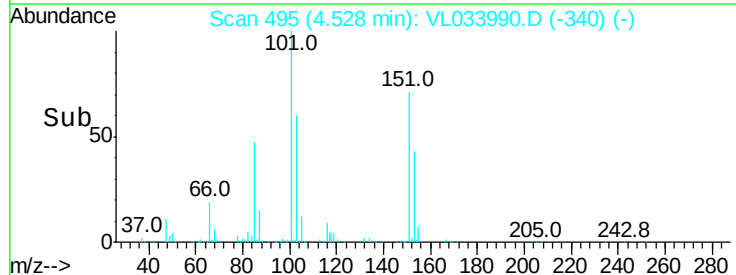
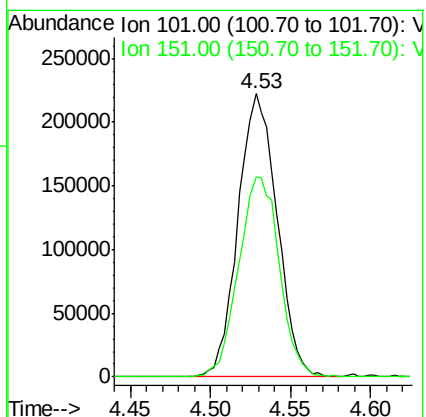
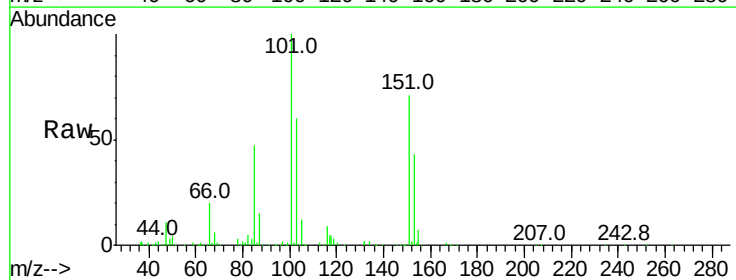
Acq: 2 Jul 2019 14:21

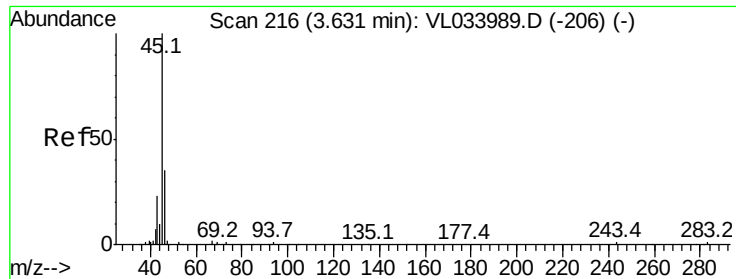
Tgt Ion:101 Resp: 367107

Ion Ratio Lower Upper

101 100

151 73.9 59.0 88.4

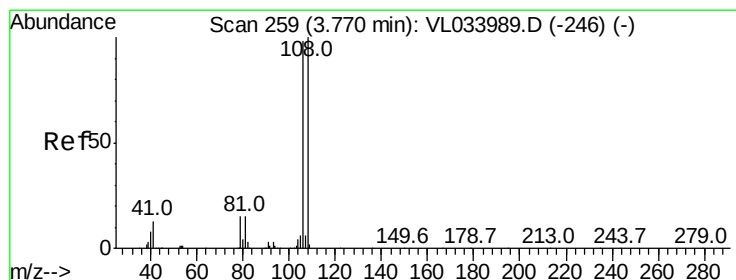
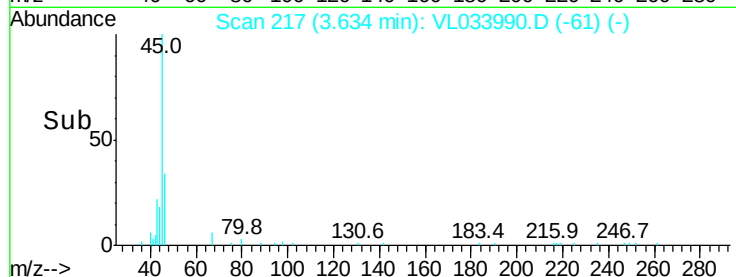
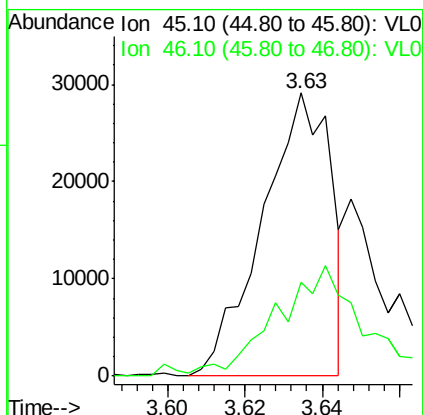
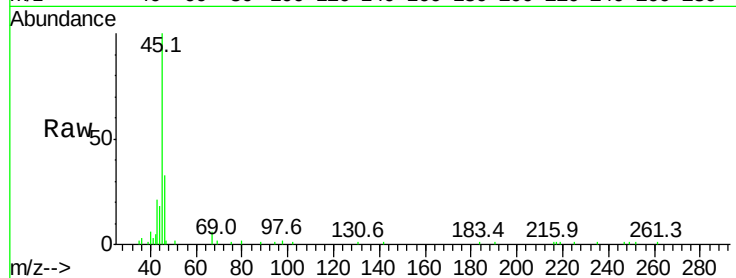




#13
Ethanol
Concen: 2.149 ppbv
RT: 3.63 min Scan# 217
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

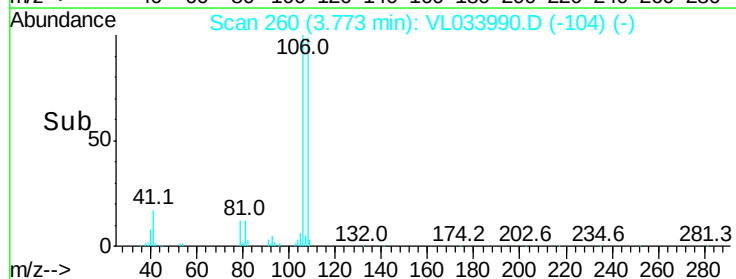
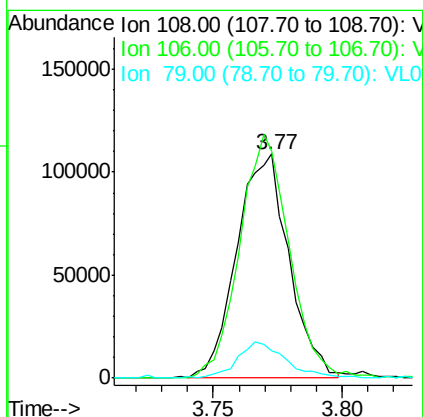
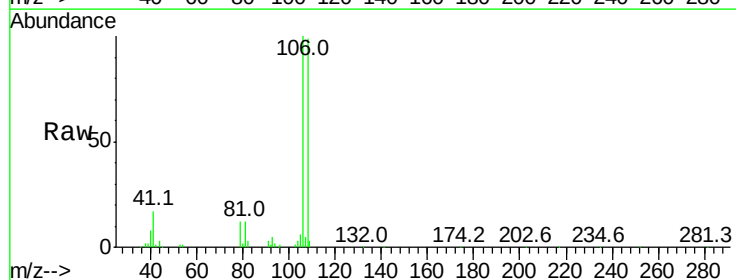
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

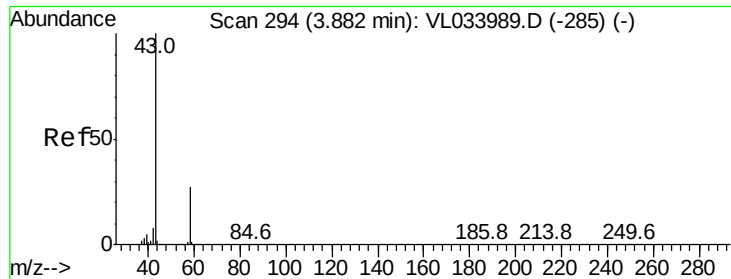
Tgt Ion: 45 Resp: 35886
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.6#



#14
Bromoethene
Concen: 2.490 ppbv
RT: 3.77 min Scan# 260
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 108 Resp: 152942
Ion Ratio Lower Upper
108 100
106 105.2 85.6 128.4
79 15.9 14.0 21.0

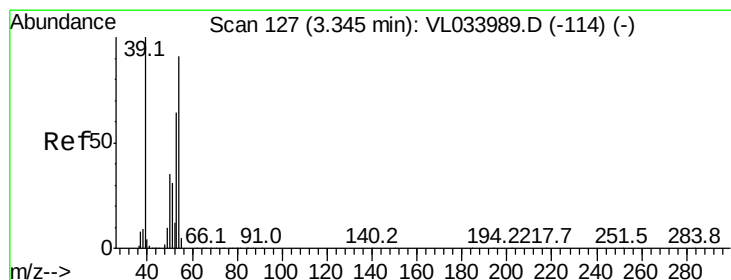
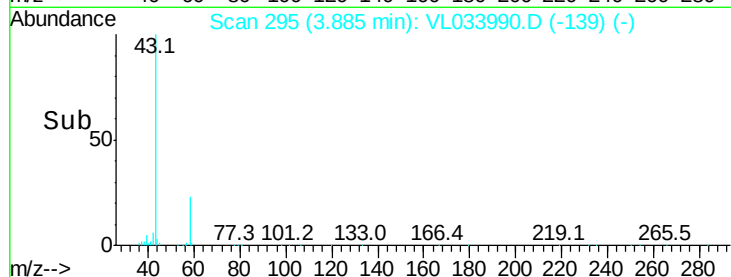
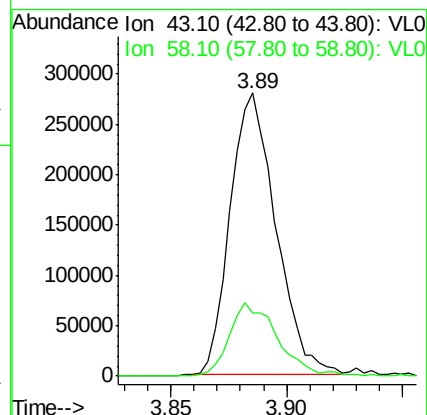
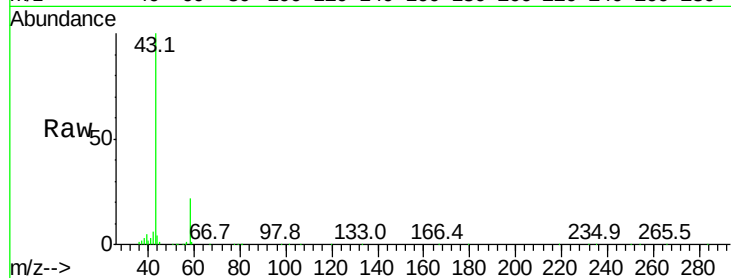




#15
Acetone
Concen: 2.254 ppbv
RT: 3.89 min Scan# 295
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

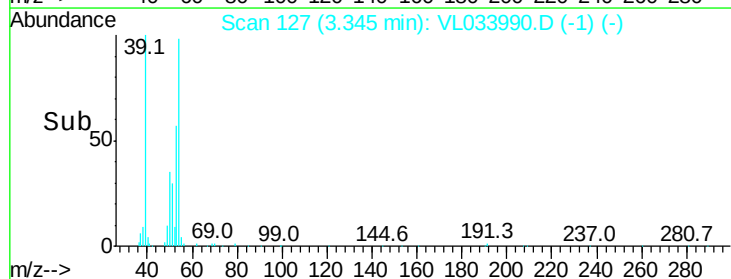
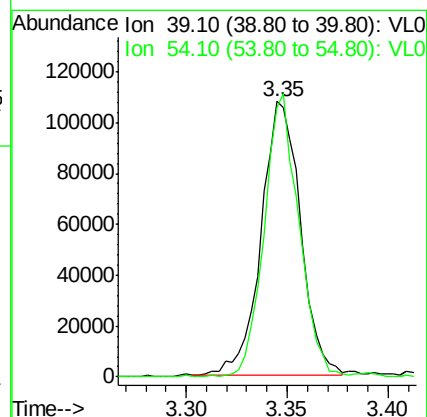
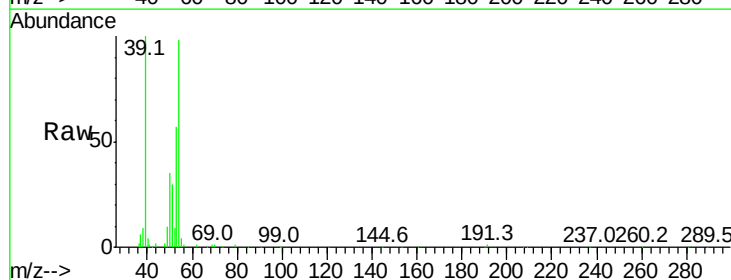
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

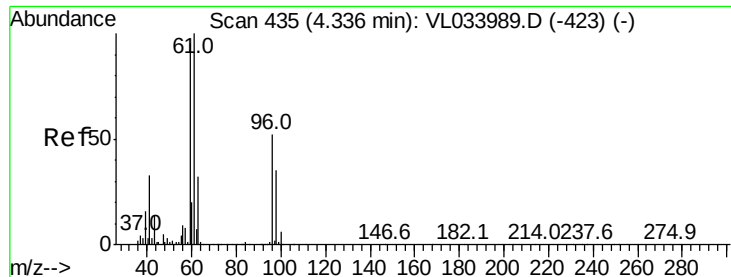
Tgt Ion: 43 Resp: 382981
Ion Ratio Lower Upper
43 100
58 27.8 21.4 32.0



#16
1,3-Butadiene
Concen: 2.271 ppbv
RT: 3.35 min Scan# 127
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 39 Resp: 146847
Ion Ratio Lower Upper
39 100
54 92.1 71.4 107.2



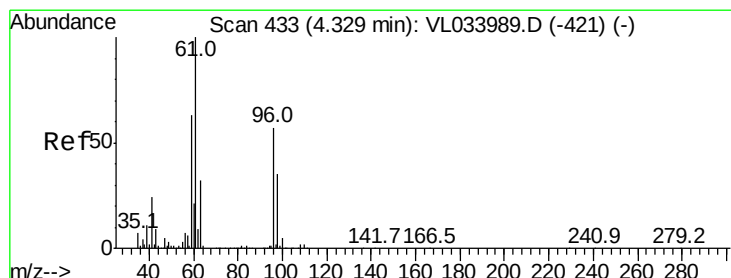
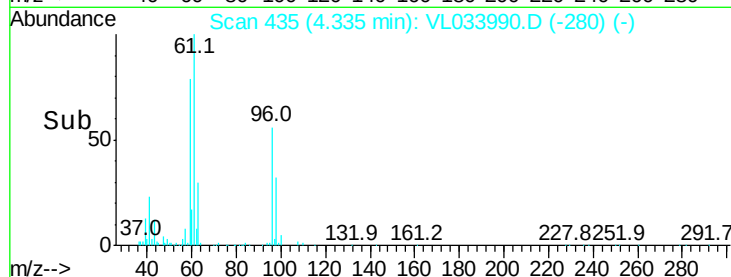
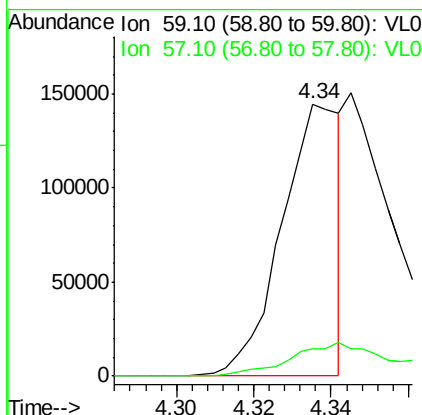
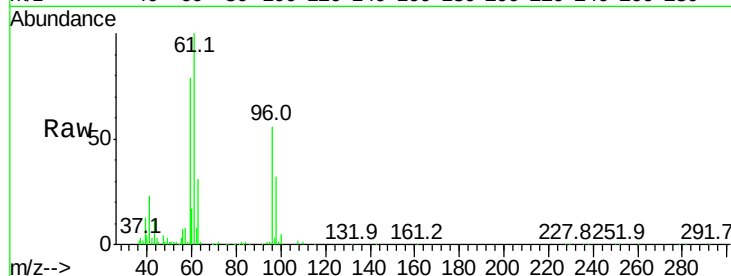


#17

tert-Butyl alcohol
Concen: 1.138 ppbv
RT: 4.34 min Scan# 435
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

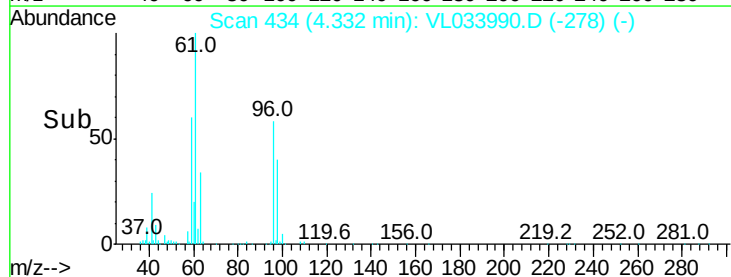
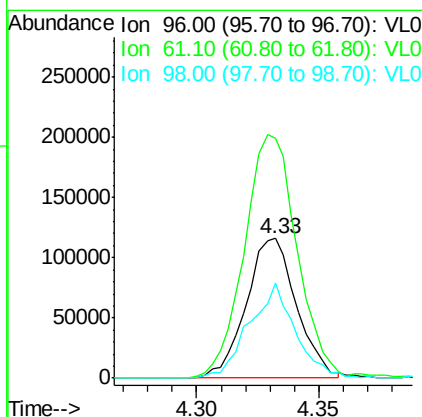
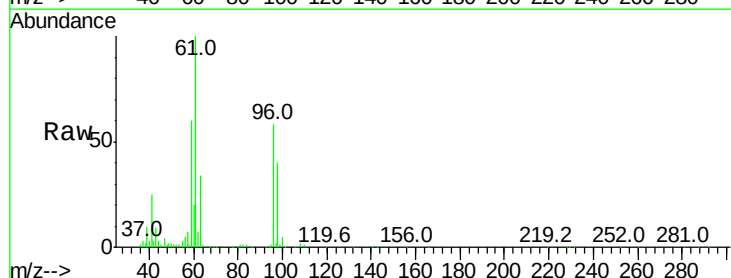
Tgt Ion: 59 Resp: 151180
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

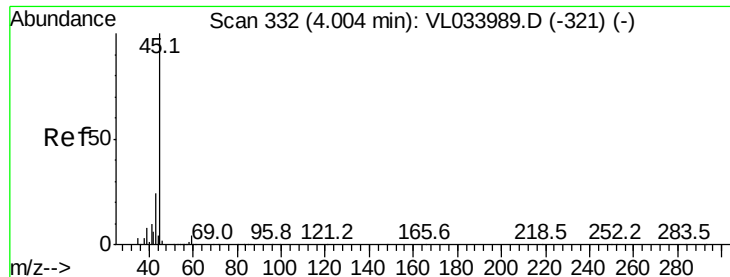


#18

1,1-Dichloroethene
Concen: 2.361 ppbv
RT: 4.33 min Scan# 434
Delta R.T. 0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 96 Resp: 164371
Ion Ratio Lower Upper
96 100
61 172.4 139.4 209.0
98 68.4 49.4 74.0





#19

Isopropyl Alcohol

Concen: 2.546 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

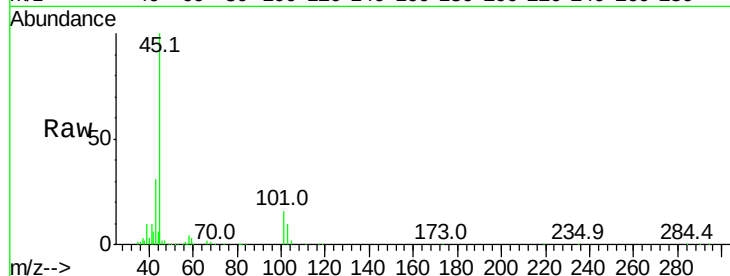
VSTDIC002

Tgt Ion: 45 Resp: 247149

Ion Ratio Lower Upper

45 100

58 3.2 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.01

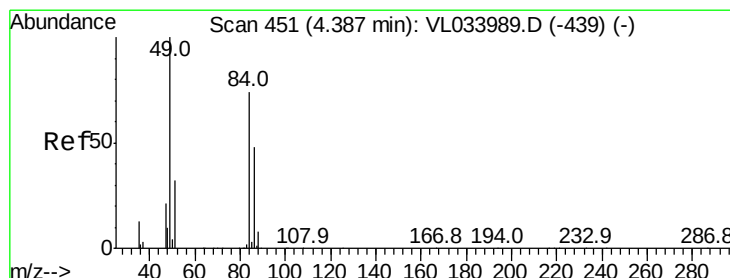
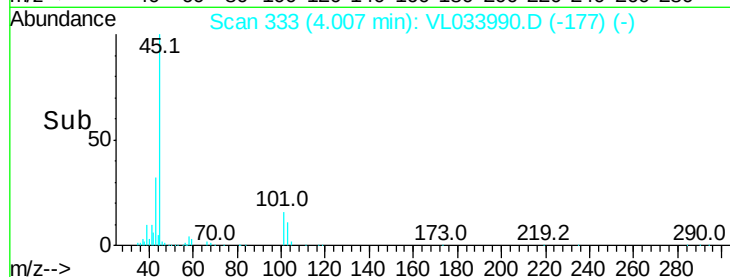
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 2.593 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion: 84 Resp: 171800

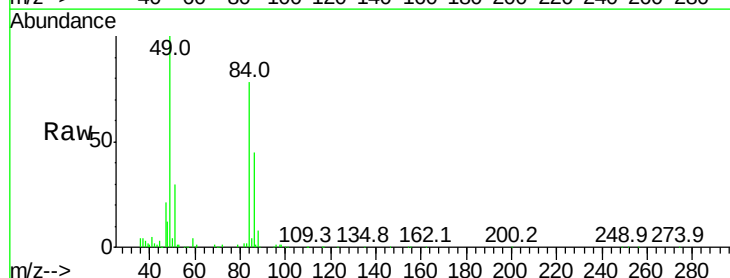
Ion Ratio Lower Upper

84 100

49 127.7 107.6 161.4

51 35.5 35.0 52.6

86 57.3 52.1 78.1



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

250000

200000

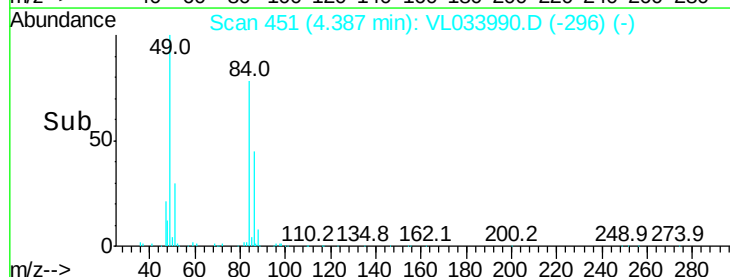
150000

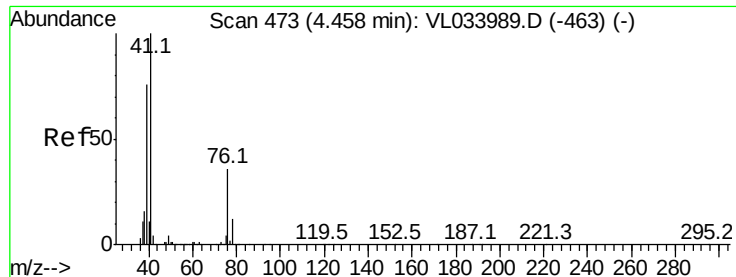
100000

50000

0

Time-->





#21

Allyl Chloride

Concen: 2.425 ppbv

RT: 4.46 min Scan# 473

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

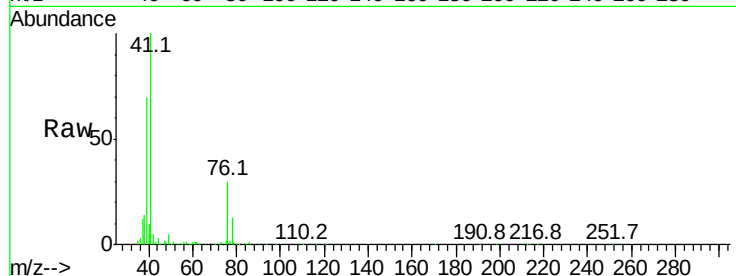
Tgt Ion: 41 Resp: 234057

Ion Ratio Lower Upper

41 100

76 33.9 26.8 40.2

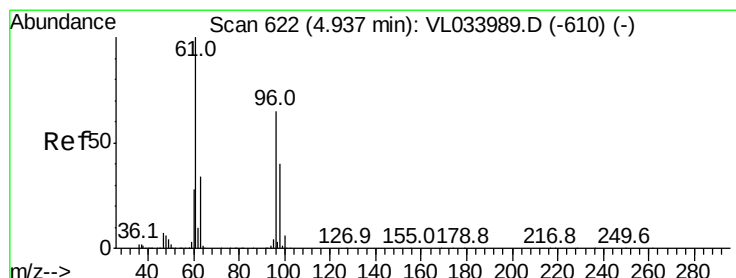
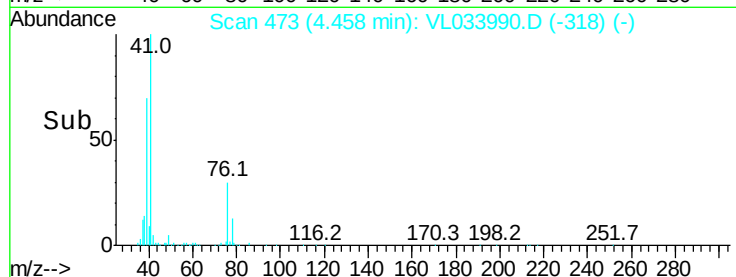
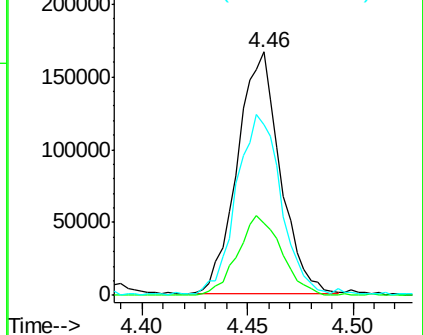
39 80.2 63.1 94.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 2.224 ppbv

RT: 4.94 min Scan# 623

Delta R.T. 0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

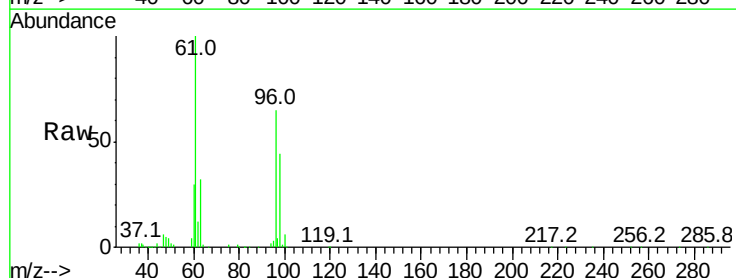
Tgt Ion: 96 Resp: 163231

Ion Ratio Lower Upper

96 100

61 153.5 122.9 184.3

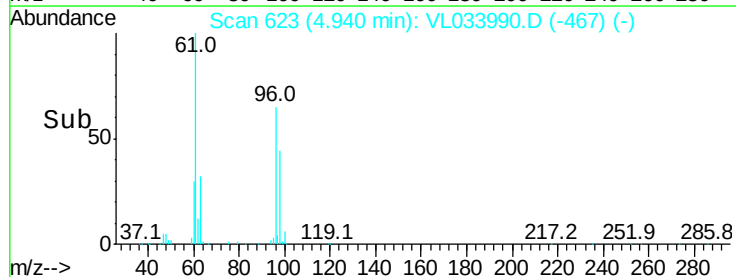
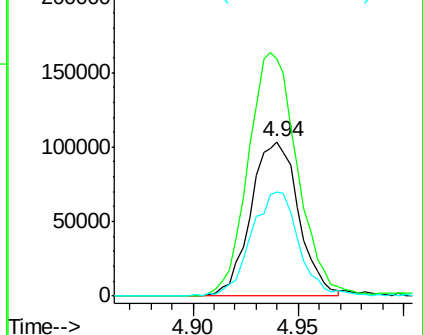
98 67.6 49.6 74.4

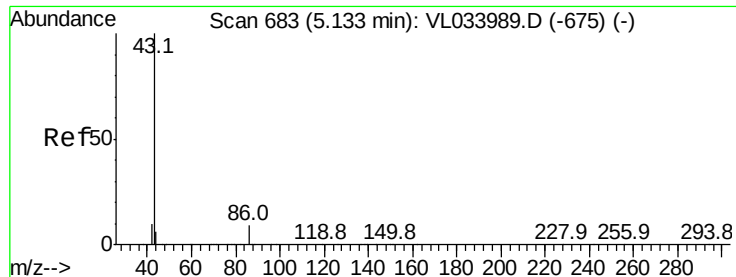


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 2.174 ppbv

RT: 5.13 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 429351

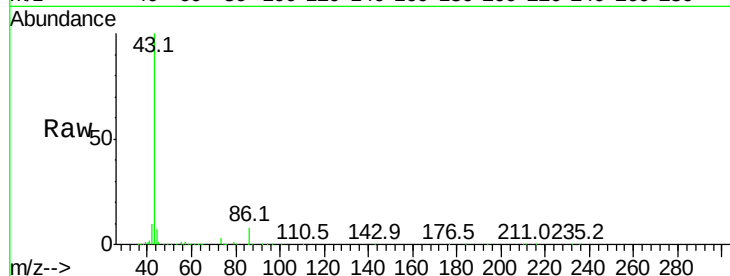
Ion Ratio Lower Upper

43 100

86 7.6 6.6 9.8

42 9.8 8.3 12.5

44 5.8 4.3 6.5

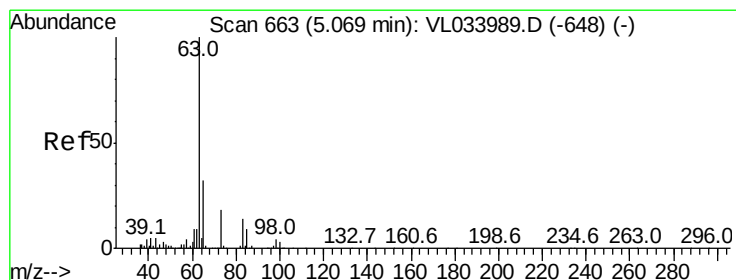
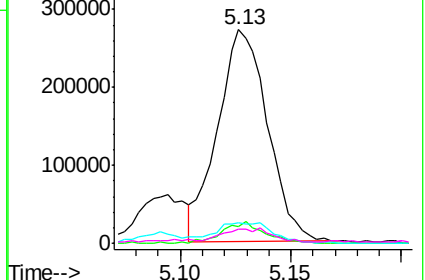
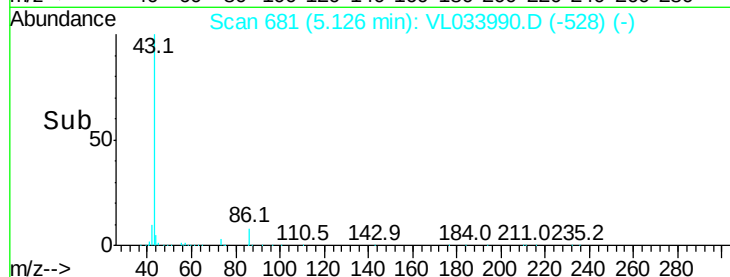


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 2.371 ppbv

RT: 5.07 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

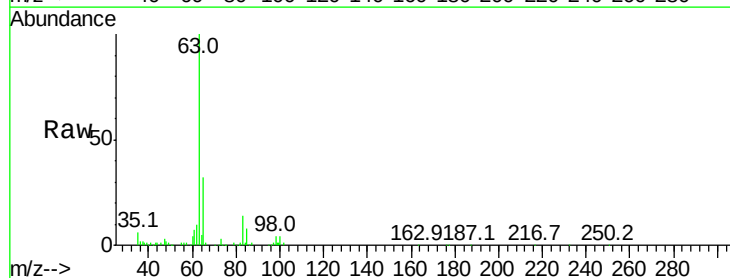
Tgt Ion: 63 Resp: 364234

Ion Ratio Lower Upper

63 100

98 4.8 2.2 6.6

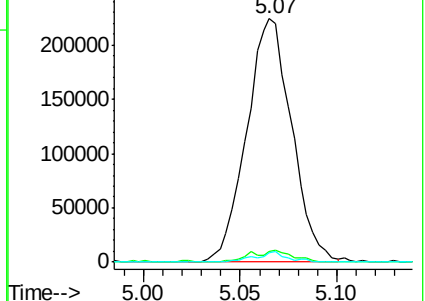
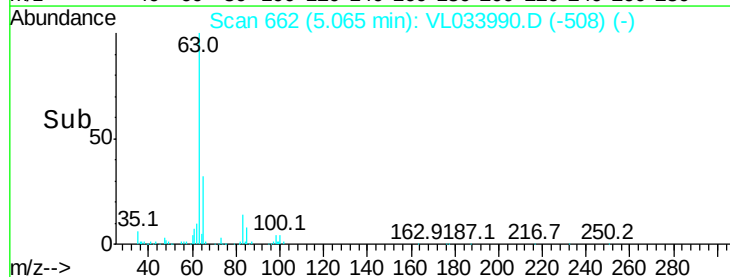
100 4.0 1.4 4.2

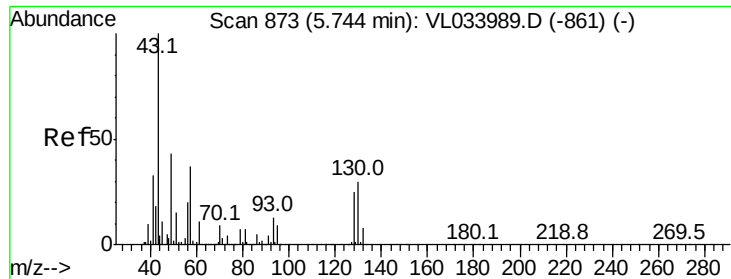


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 2.196 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 568286

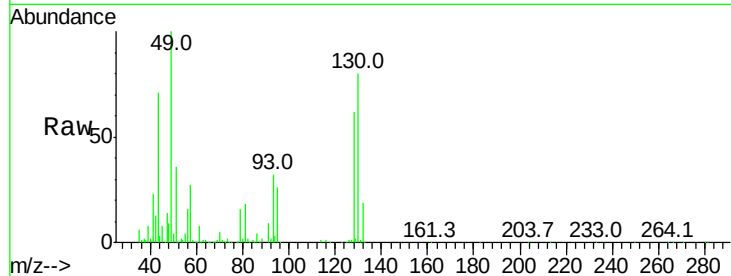
Ion Ratio Lower Upper

43 100

45 10.2 8.1 12.1

61 10.3 8.1 12.1

70 7.6 6.3 9.5

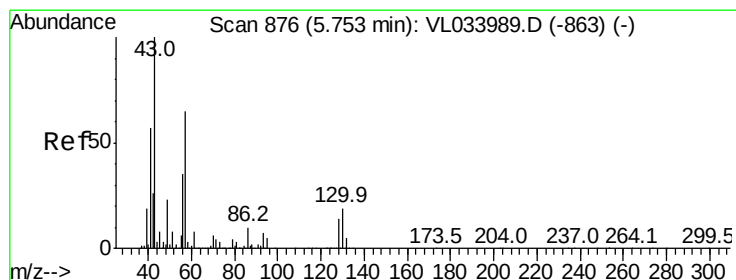
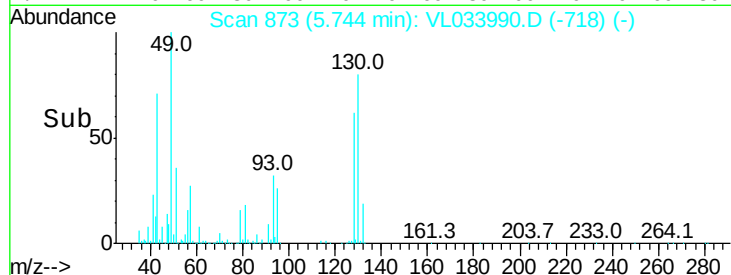
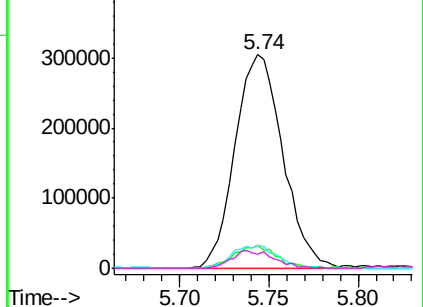


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.228 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion: 57 Resp: 262487

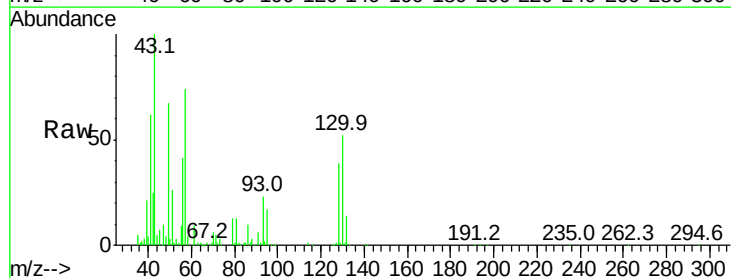
Ion Ratio Lower Upper

57 100

41 89.9 70.6 105.8

43 218.4 177.6 266.4

56 56.7 42.6 64.0

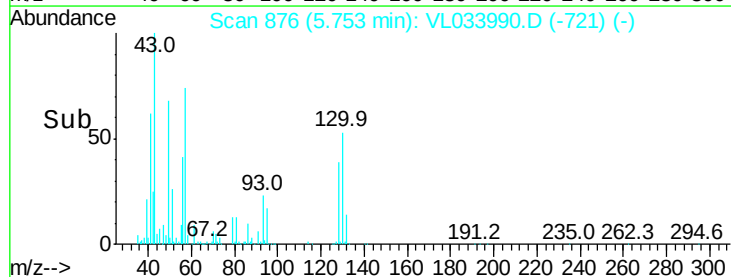
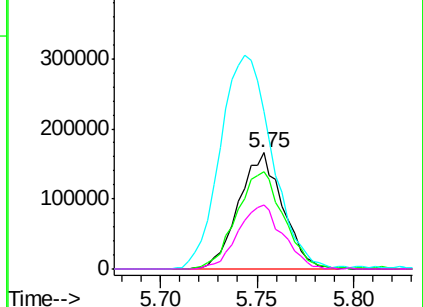


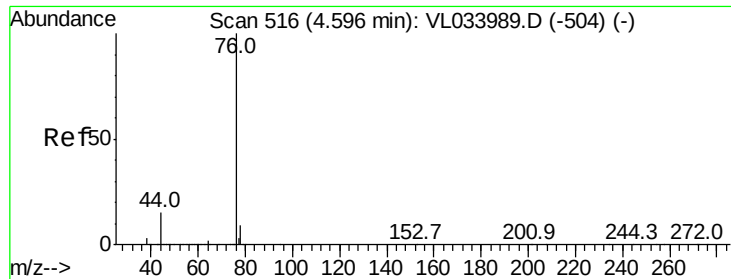
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 2.366 ppbv

RT: 4.60 min Scan# 518

Delta R.T. 0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

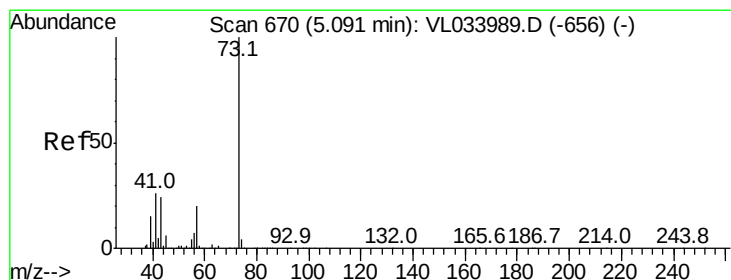
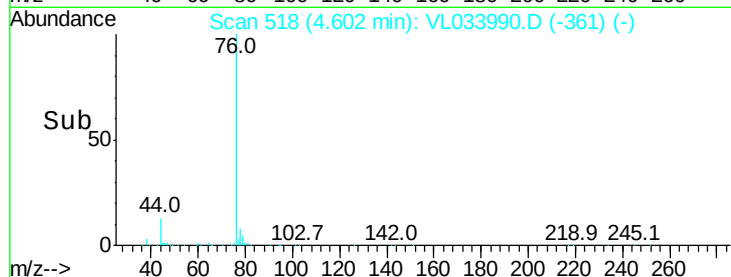
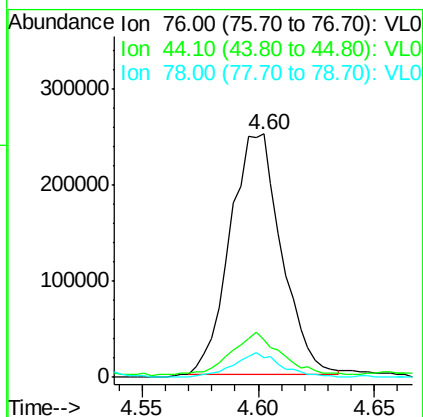
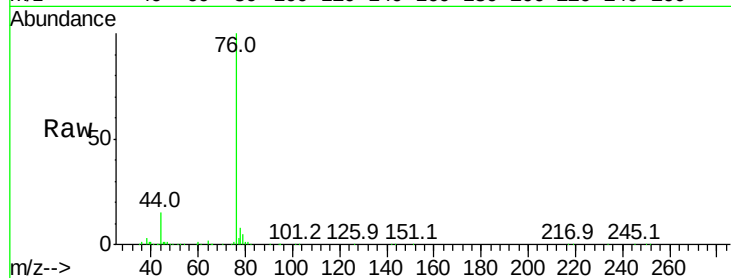
Tgt Ion: 76 Resp: 387283

Ion Ratio Lower Upper

76 100

44 18.0 12.6 18.8

78 9.5 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 2.503 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033990.D

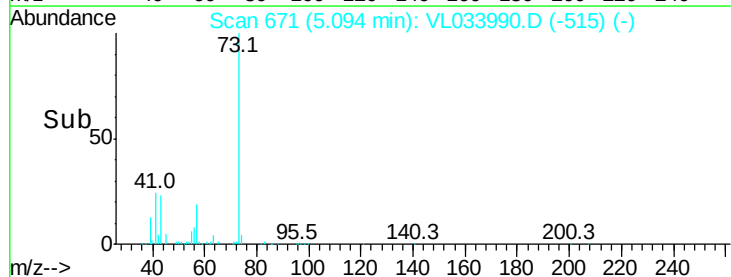
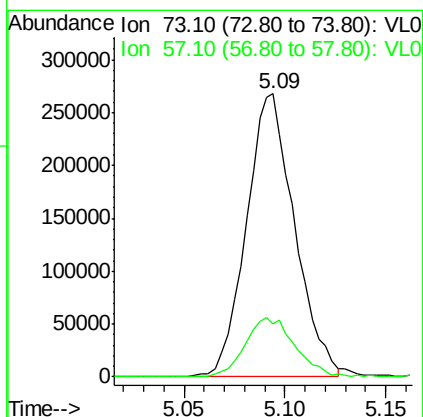
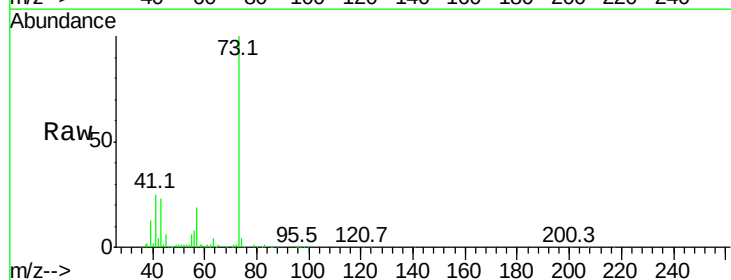
Acq: 2 Jul 2019 14:21

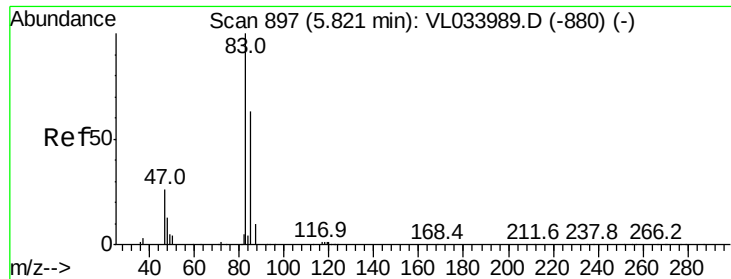
Tgt Ion: 73 Resp: 445856

Ion Ratio Lower Upper

73 100

57 21.9 16.9 25.3





#29

Chloroform

Concen: 2.370 ppbv

RT: 5.82 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

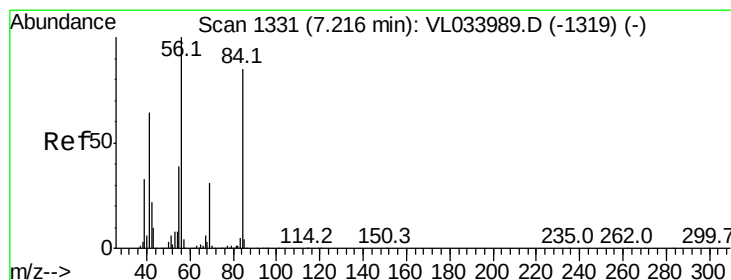
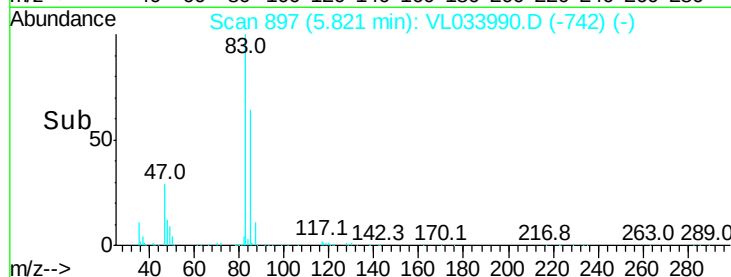
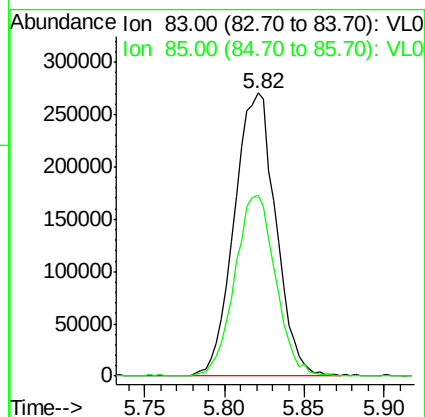
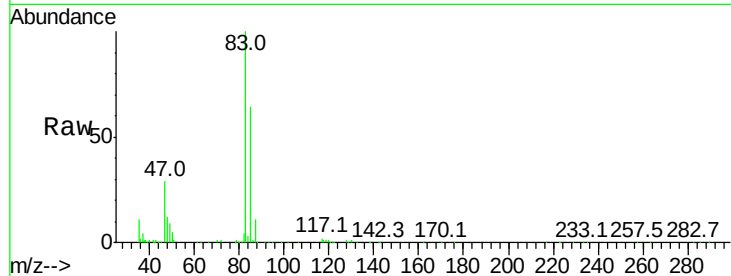
VSTDIC002

Tgt Ion: 83 Resp: 478212

Ion Ratio Lower Upper

83 100

85 64.1 50.6 75.8



#30

Cyclohexane

Concen: 1.279 ppbv

RT: 7.21 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

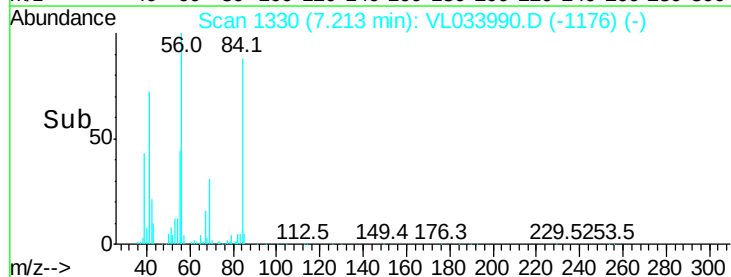
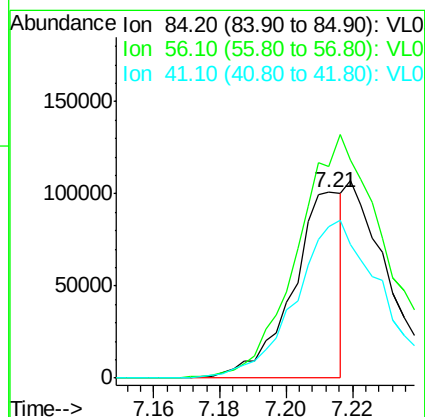
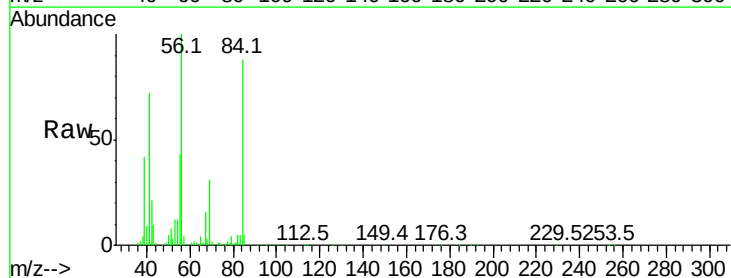
Tgt Ion: 84 Resp: 106508

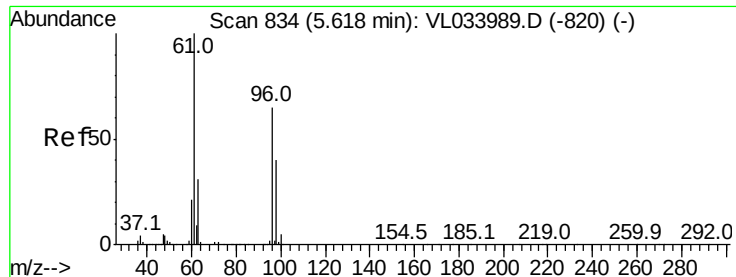
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

41 0.0 62.6 94.0#



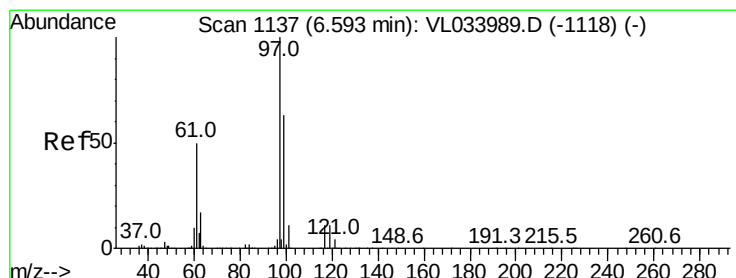
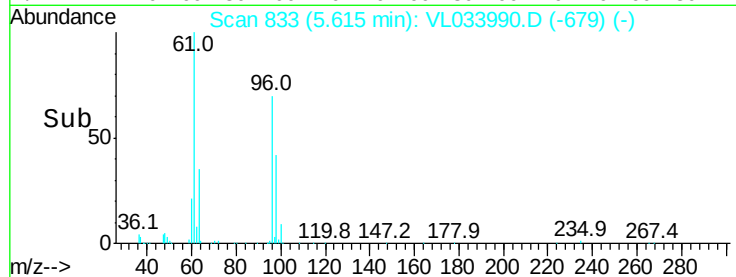
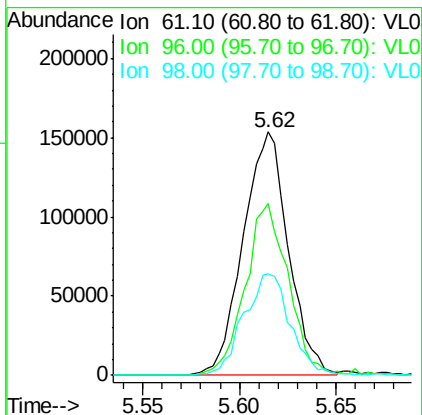
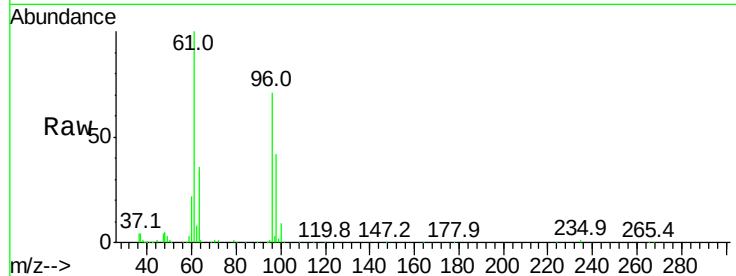


#31

cis-1,2-Dichloroethene
Concen: 2.421 ppbv
RT: 5.62 min Scan# 833
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

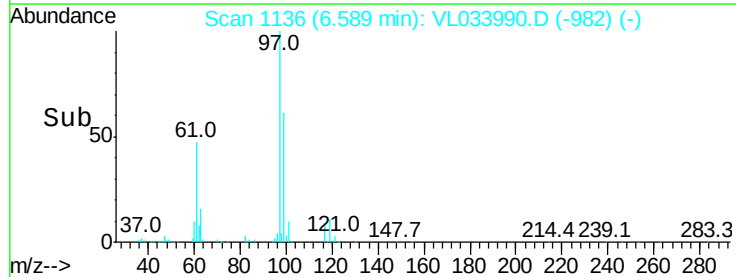
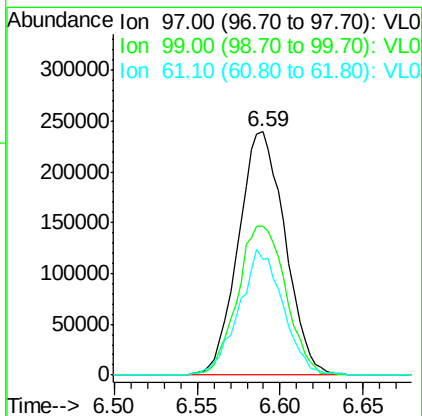
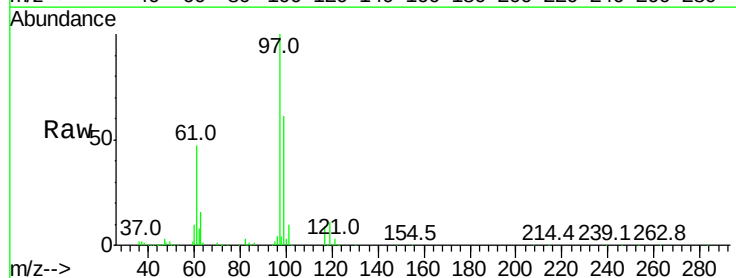
Tgt Ion	Ratio	Lower	Upper
61	100		
96	70.6	51.8	77.6
98	41.4	32.1	48.1

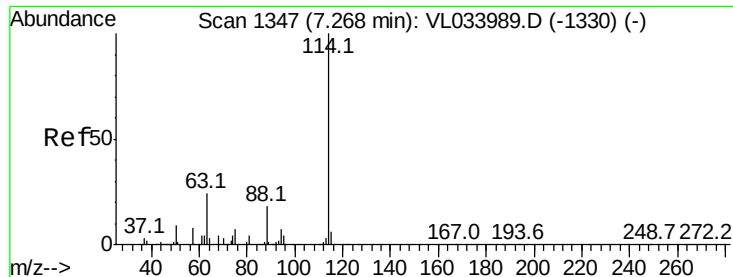


#32

1,1,1-Trichloroethane
Concen: 2.393 ppbv
RT: 6.59 min Scan# 1136
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.9	77.9
61	49.0	39.8	59.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. -0.01 min

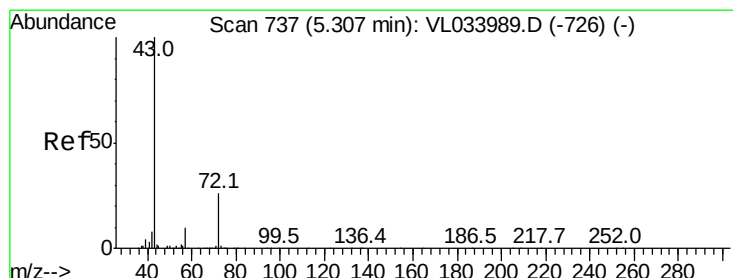
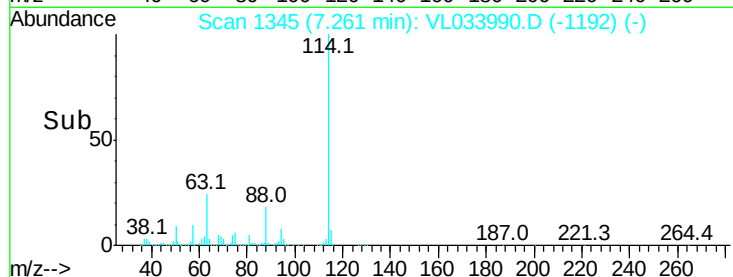
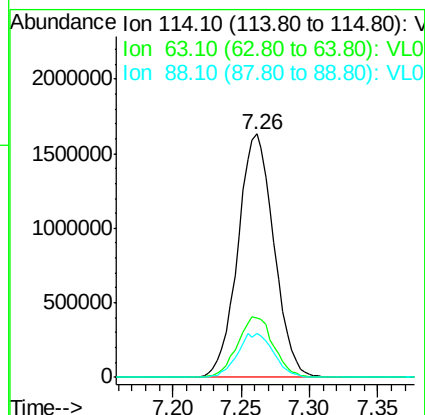
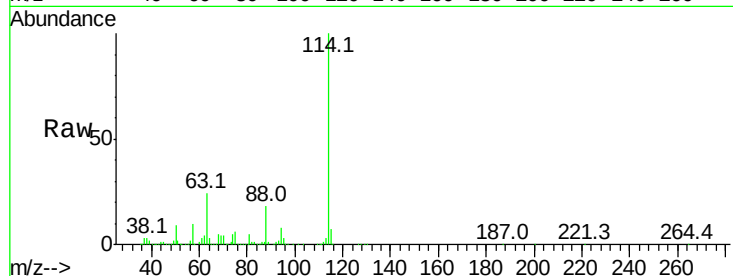
Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:114 Resp: 2987865

Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.2	30.2
88	18.2	14.1	21.1



#34

2-Butanone

Concen: 2.099 ppbv

RT: 5.31 min Scan# 737

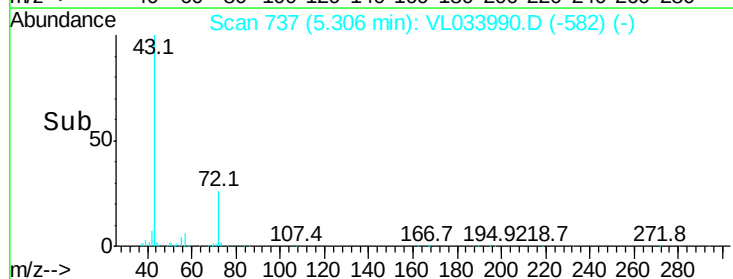
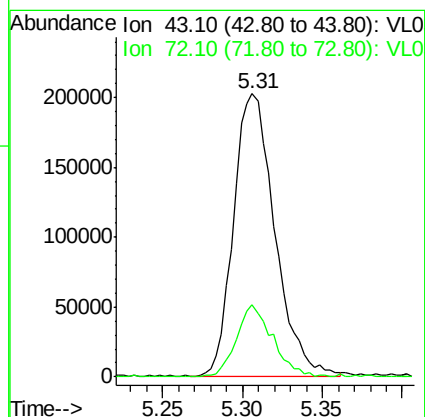
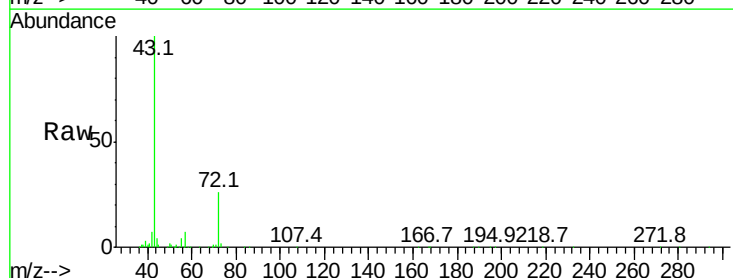
Delta R.T. -0.00 min

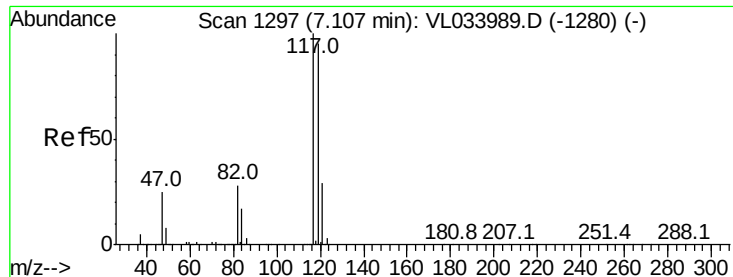
Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion: 43 Resp: 353732

Ion	Ratio	Lower	Upper
43	100		
72	23.0	19.9	29.9

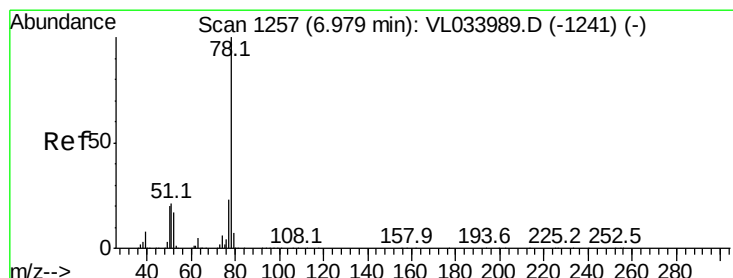
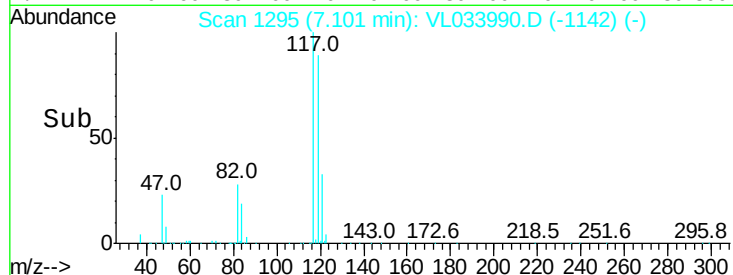
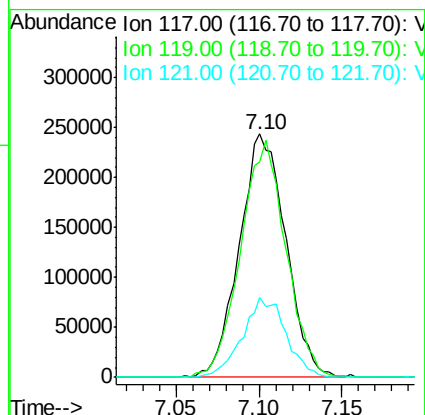
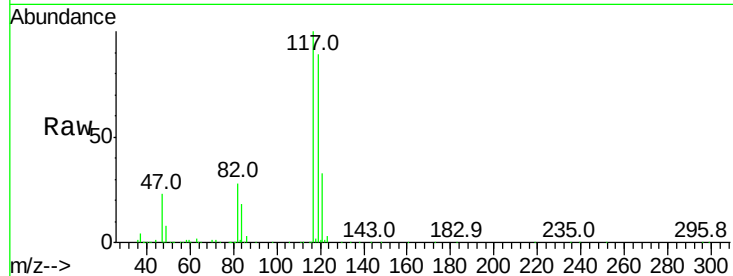




#35
Carbon Tetrachloride
Concen: 2.042 ppbv
RT: 7.10 min Scan# 1295
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

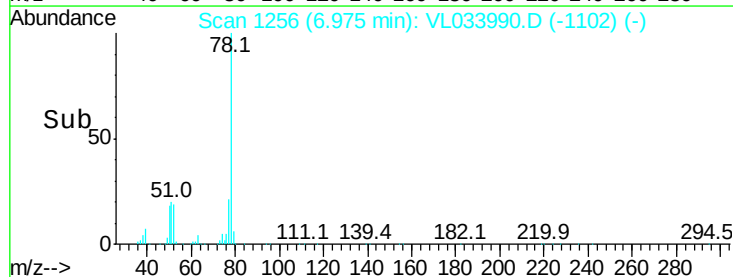
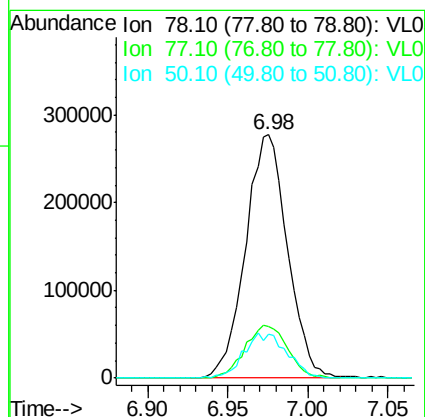
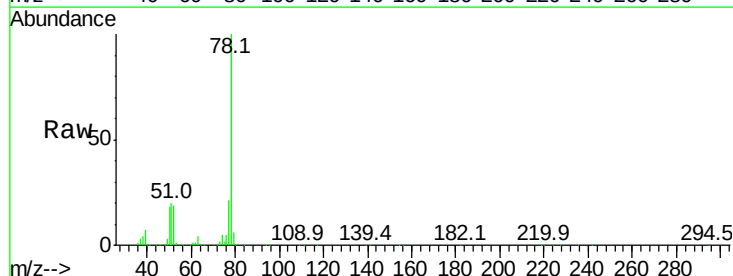
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

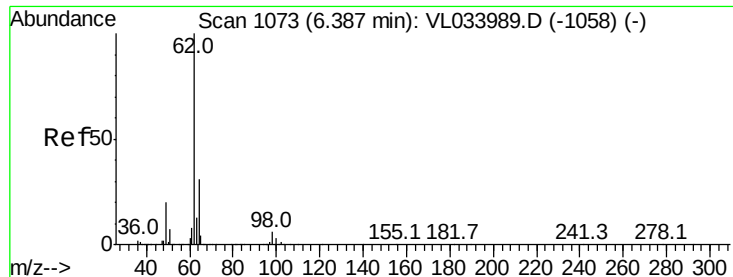
Tgt Ion:117 Resp: 471336
Ion Ratio Lower Upper
117 100
119 88.5 75.8 113.6
121 32.5 23.4 35.2



#36
Benzene
Concen: 2.174 ppbv
RT: 6.98 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 78 Resp: 496253
Ion Ratio Lower Upper
78 100
77 21.2 18.7 28.1
50 18.2 16.2 24.2

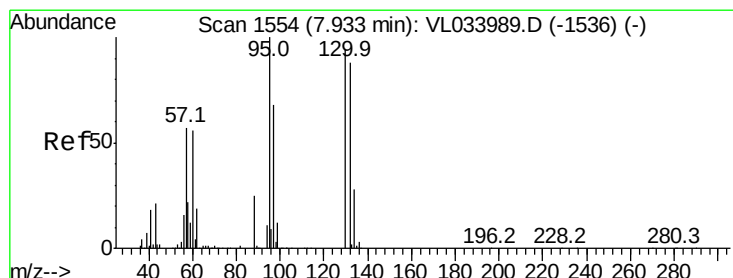
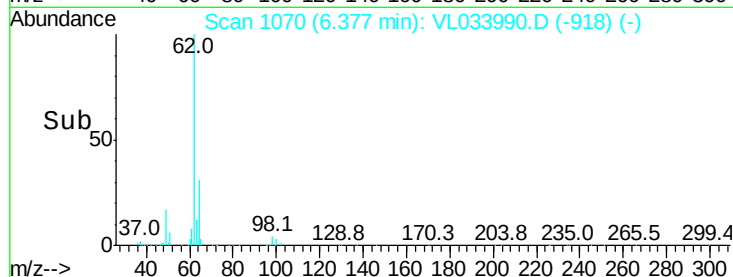
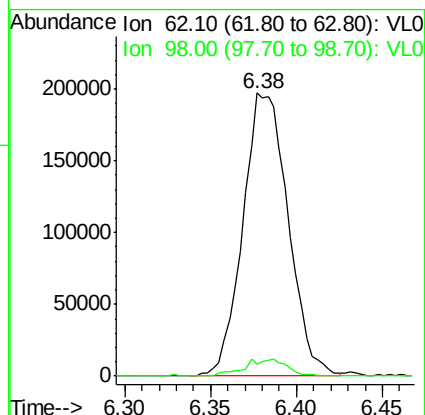
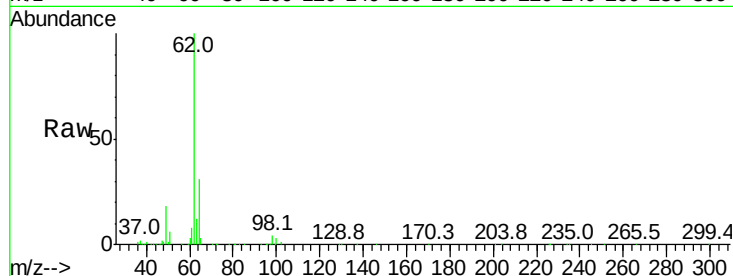




#37
 1,2-Dichloroethane
 Concen: 2.137 ppbv
 RT: 6.38 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

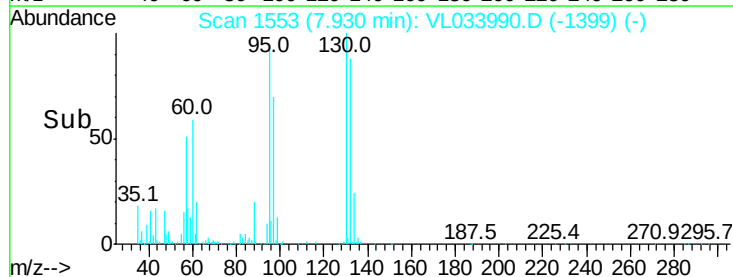
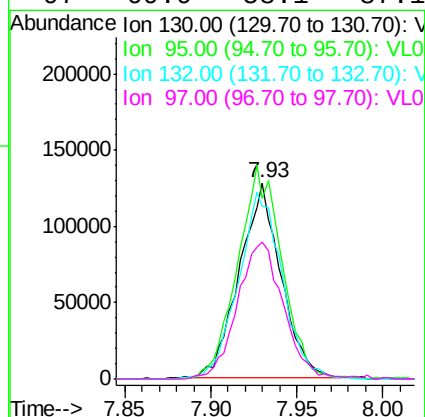
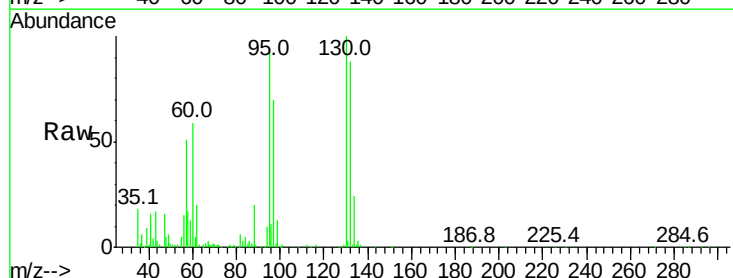
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

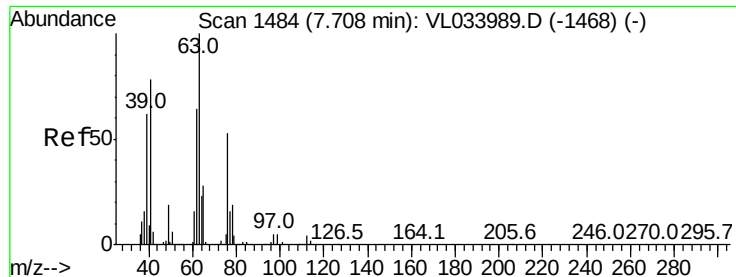
Tgt Ion: 62 Resp: 360718
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.4 6.6



#38
 Trichloroethene
 Concen: 2.418 ppbv
 RT: 7.93 min Scan# 1553
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion: 130 Resp: 214852
 Ion Ratio Lower Upper
 130 100
 95 91.7 85.5 128.3
 132 87.7 75.1 112.7
 97 69.9 58.1 87.1





#39

1,2-Dichloropropane

Concen: 2.066 ppbv

RT: 7.70 min Scan# 1482

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

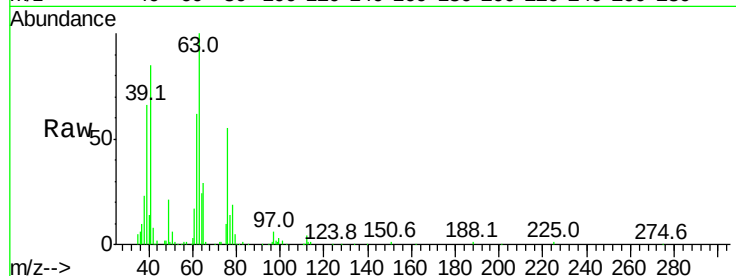
Tgt Ion: 63 Resp: 181983

Ion Ratio Lower Upper

63 100

41 85.3 62.3 93.5

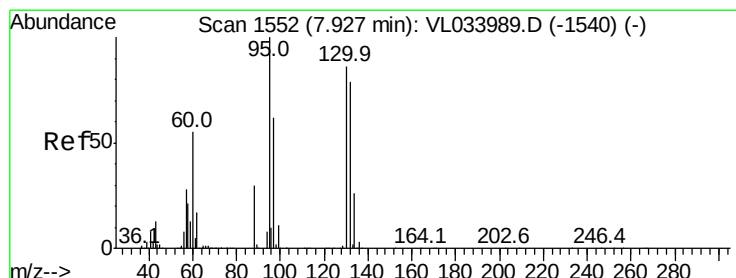
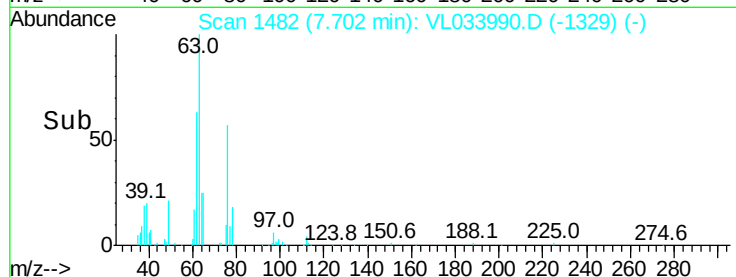
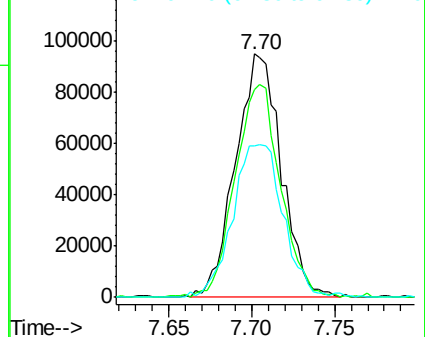
62 60.3 51.4 77.2



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



#40

1,4-Dioxane

Concen: 0.039 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.02 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion: 88 Resp: 1391

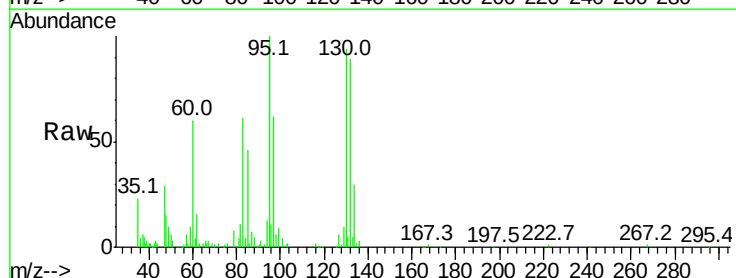
Ion Ratio Lower Upper

88 100

58 0.0 99.1 148.7#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

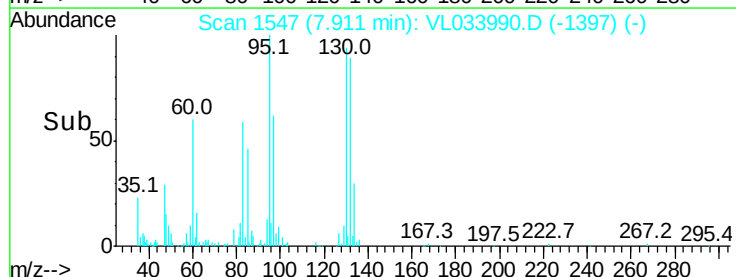
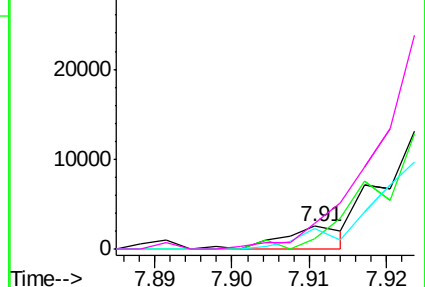


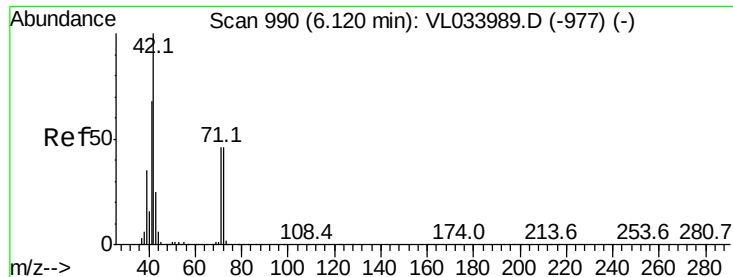
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 2.004 ppbv

RT: 6.13 min Scan# 993

Delta R.T. 0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

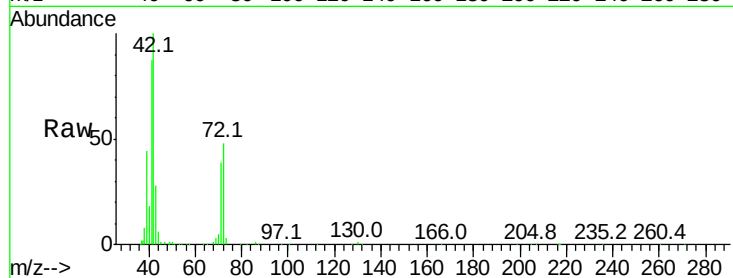
Tgt Ion: 42 Resp: 171422

Ion Ratio Lower Upper

42 100

72 44.5 37.3 55.9

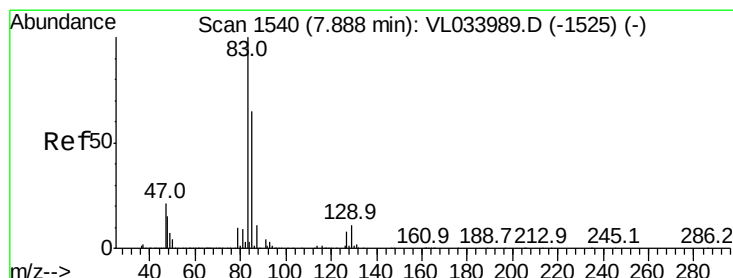
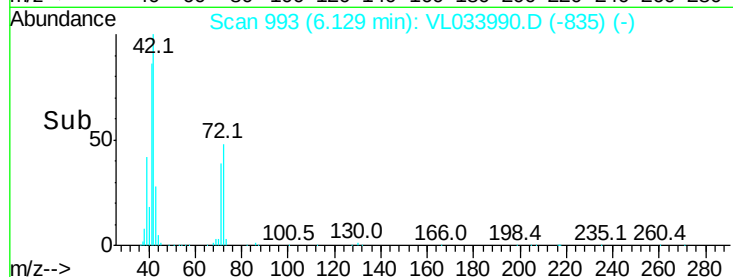
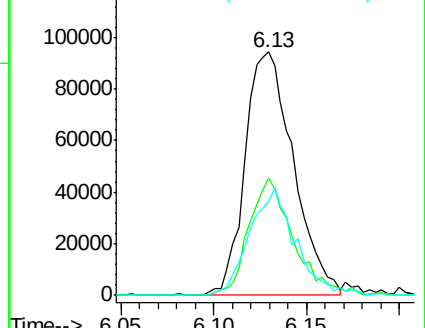
71 42.1 36.2 54.2



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



#42

Bromodichloromethane

Concen: 2.153 ppbv

RT: 7.89 min Scan# 1540

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

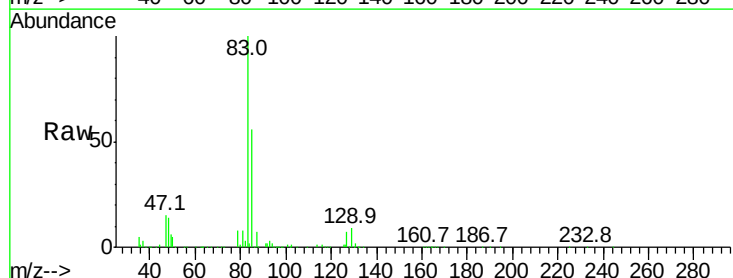
Tgt Ion: 83 Resp: 485747

Ion Ratio Lower Upper

83 100

85 55.5 51.8 77.8

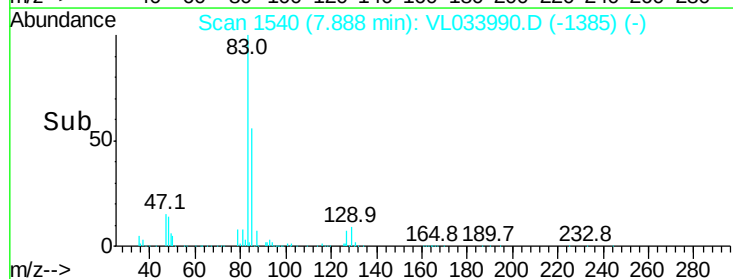
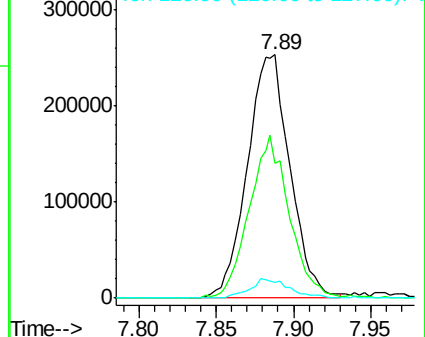
127 6.5 6.5 9.7

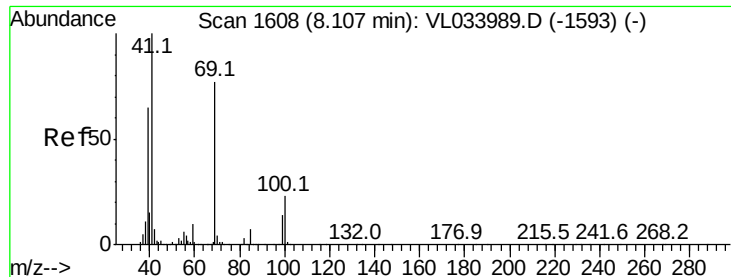


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 2.174 ppbv

RT: 8.10 min Scan# 1607

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

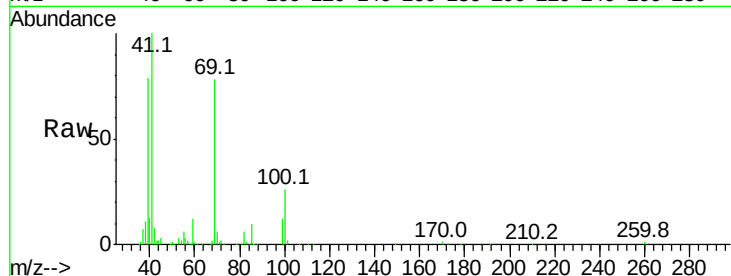
Tgt Ion: 69 Resp: 185553

Ion Ratio Lower Upper

69 100

41 143.1 109.1 163.7

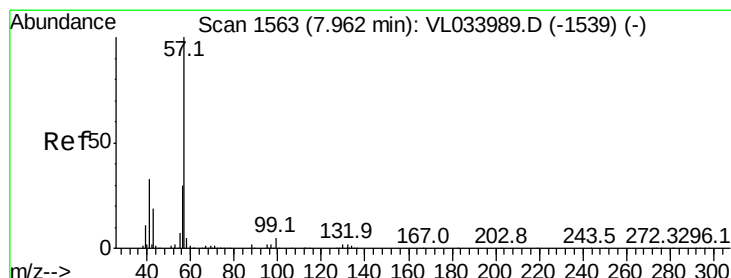
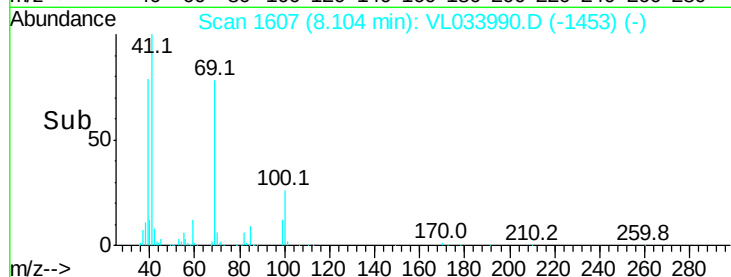
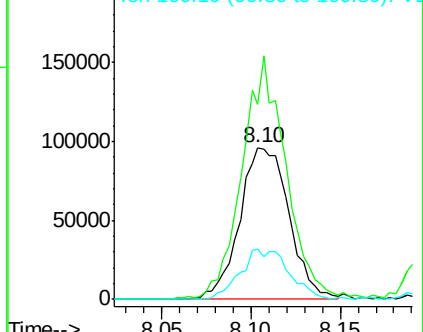
100 33.2 25.3 37.9



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



#44

2,2,4-Trimethylpentane

Concen: 2.142 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

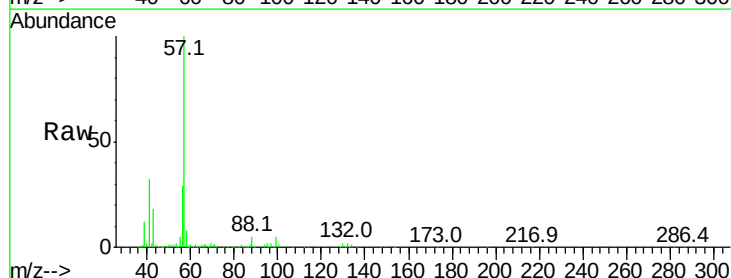
Tgt Ion: 57 Resp: 869410

Ion Ratio Lower Upper

57 100

41 33.2 26.1 39.1

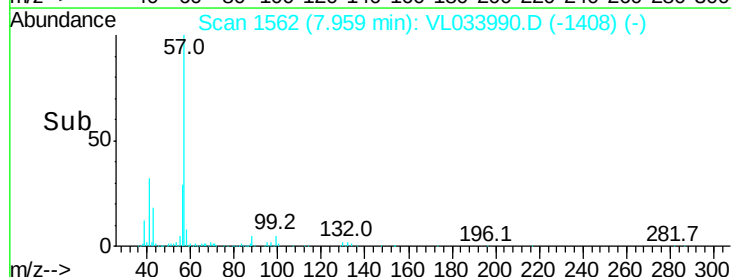
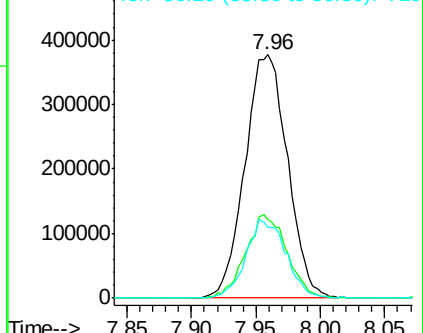
56 30.3 24.4 36.6

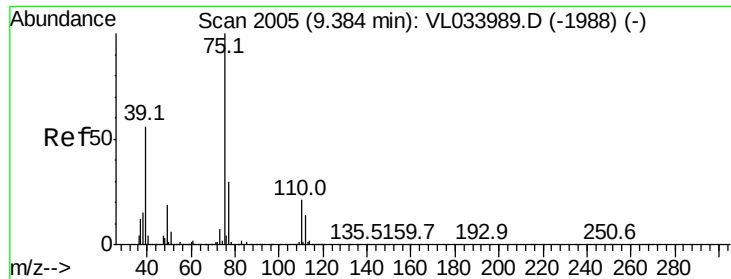


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

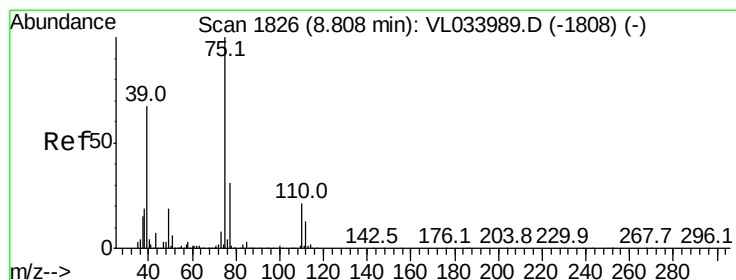
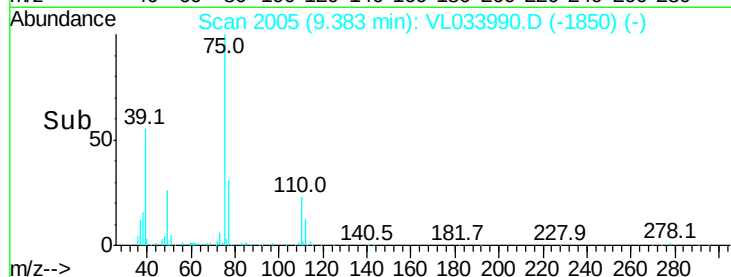
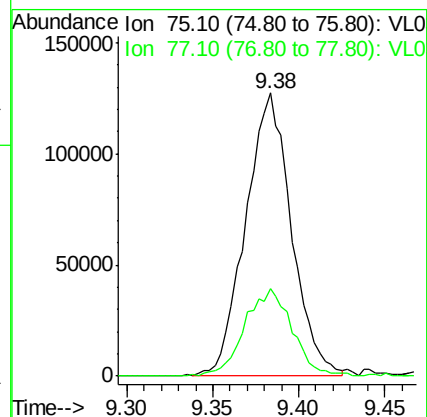
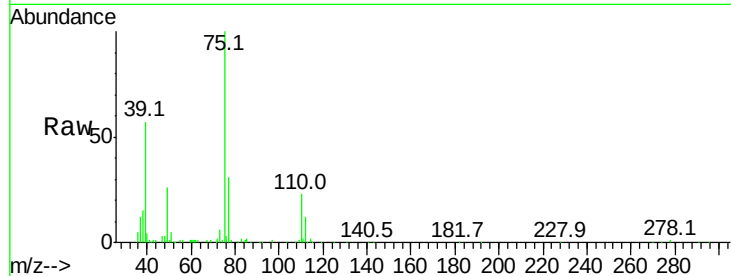




#45
t-1,3-Dichloropropene
Concen: 2.095 ppbv
RT: 9.38 min Scan# 2005
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

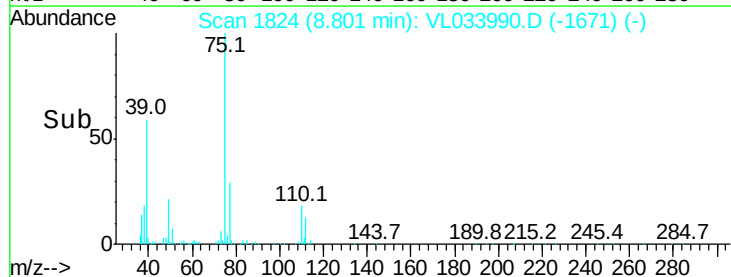
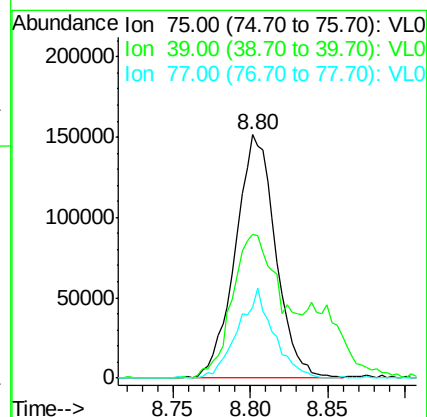
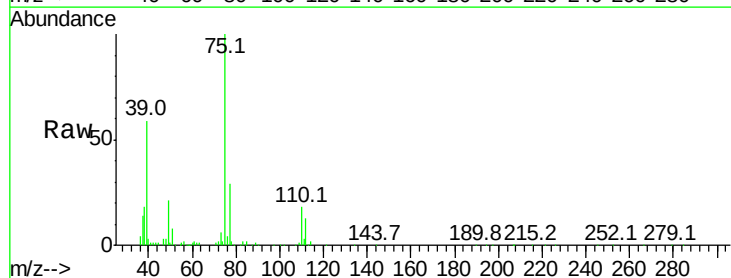
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

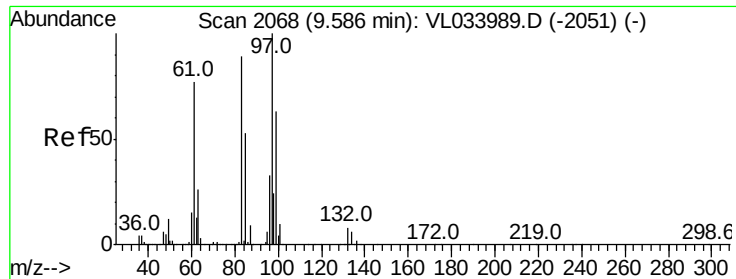
Tgt Ion: 75 Resp: 234657
Ion Ratio Lower Upper
75 100
77 30.7 24.3 36.5



#46
cis-1,3-Dichloropropene
Concen: 2.126 ppbv
RT: 8.80 min Scan# 1824
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 75 Resp: 272849
Ion Ratio Lower Upper
75 100
39 58.8 53.8 80.6
77 28.7 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 1.165 ppbv

RT: 9.57 min Scan# 2064

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 122290

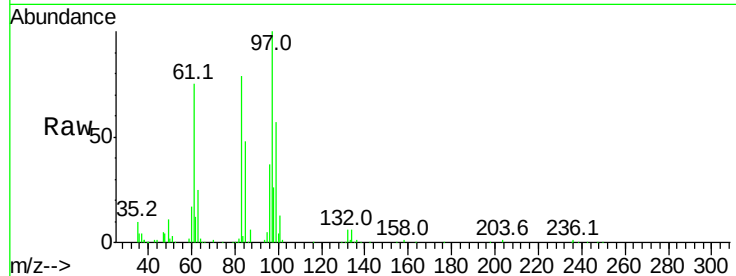
Ion Ratio Lower Upper

97 100

83 78.4 71.1 106.7

85 46.6 42.6 64.0

99 57.1 50.3 75.5

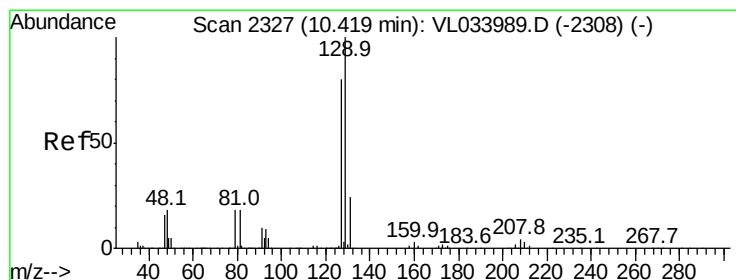
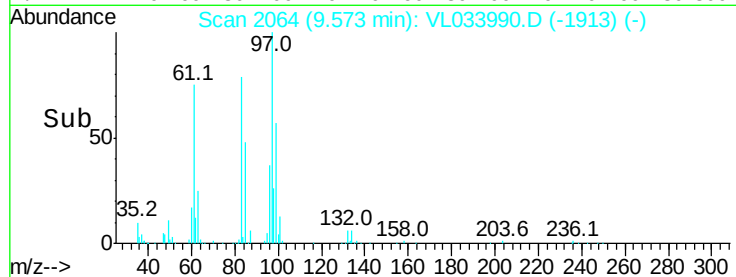
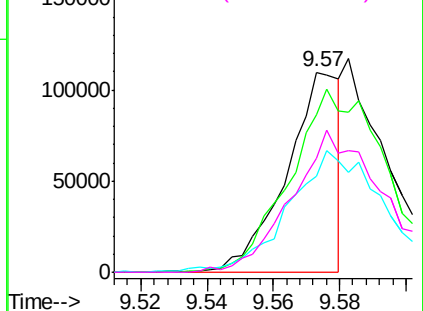


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 2.117 ppbv

RT: 10.42 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VL033990.D

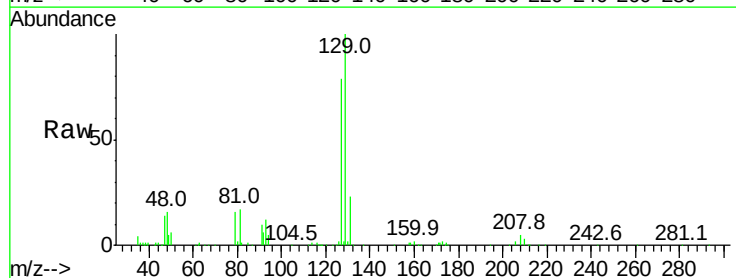
Acq: 2 Jul 2019 14:21

Tgt Ion: 129 Resp: 399609

Ion Ratio Lower Upper

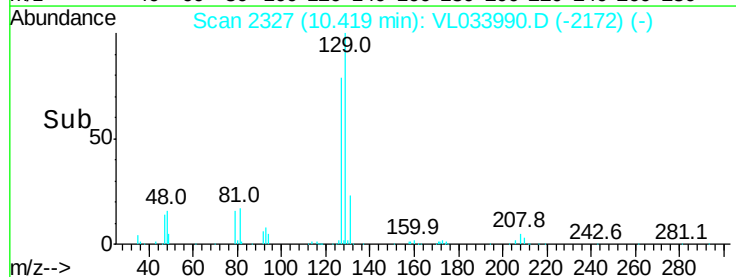
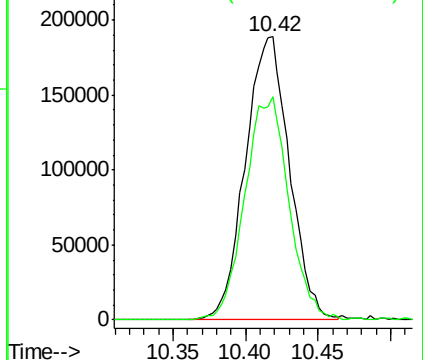
129 100

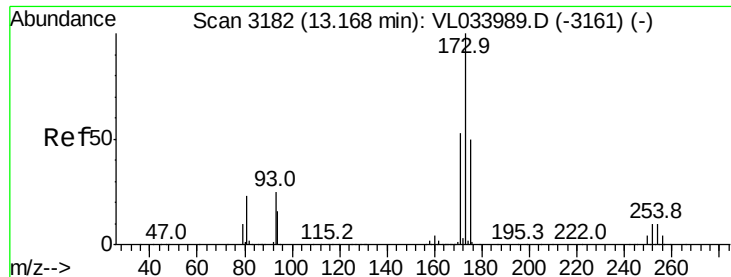
127 78.7 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 1.352 ppbv

RT: 13.16 min Scan# 3179

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

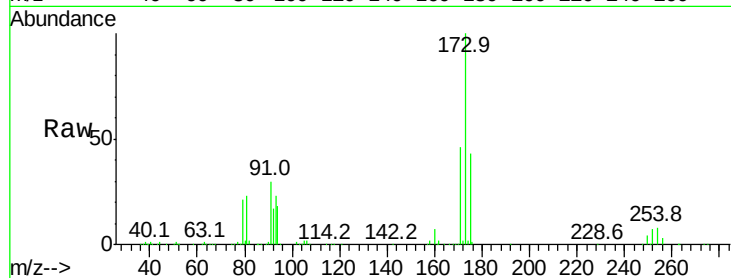
Tgt Ion:173 Resp: 225235

Ion Ratio Lower Upper

173 100

175 78.8 39.3 58.9#

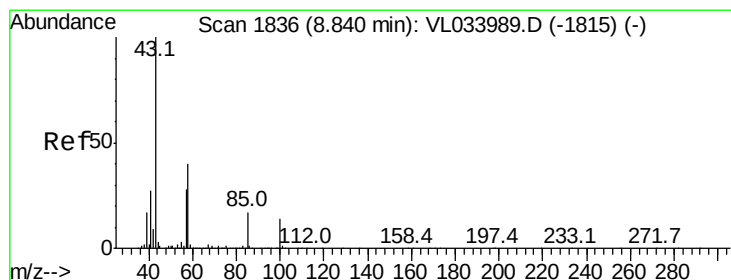
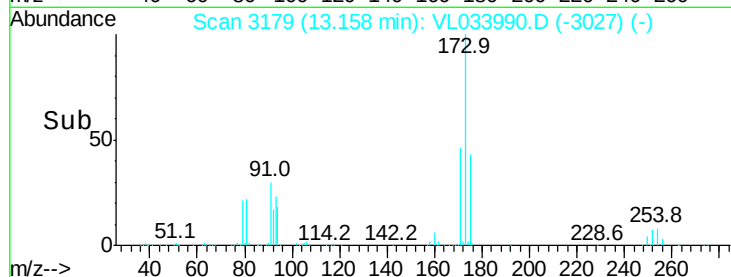
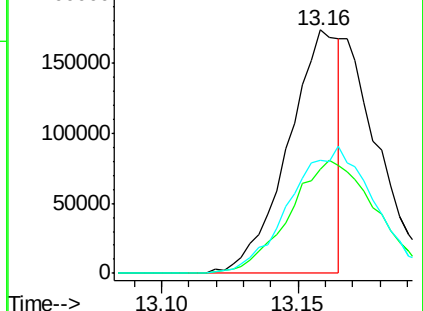
171 87.7 41.4 62.0#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 2.025 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. 0.01 min

Lab File: VL033990.D

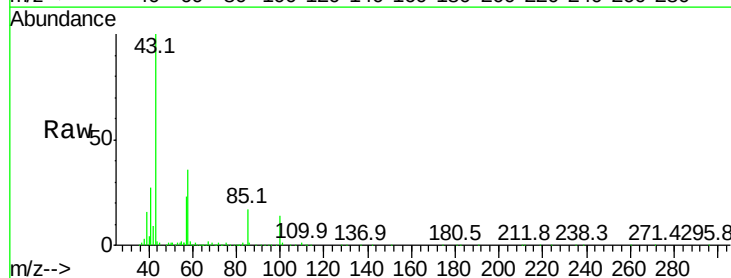
Acq: 2 Jul 2019 14:21

Tgt Ion: 43 Resp: 508986

Ion Ratio Lower Upper

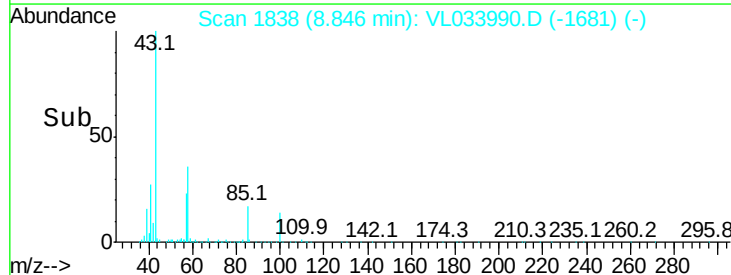
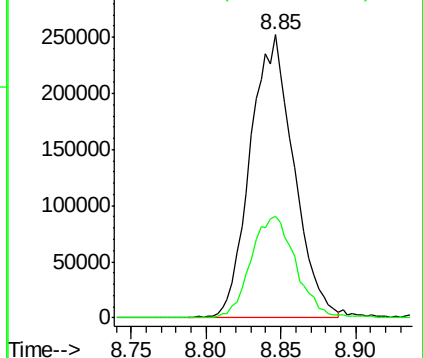
43 100

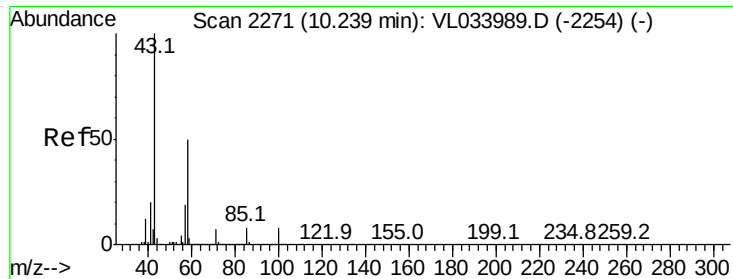
58 37.4 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

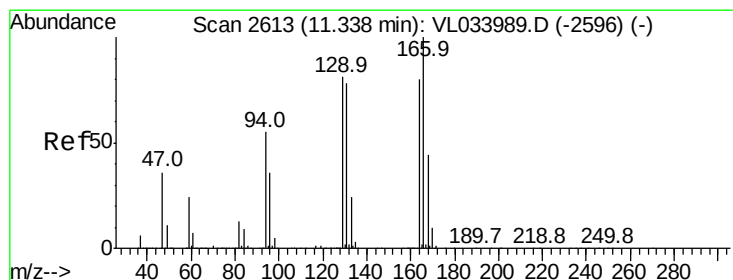
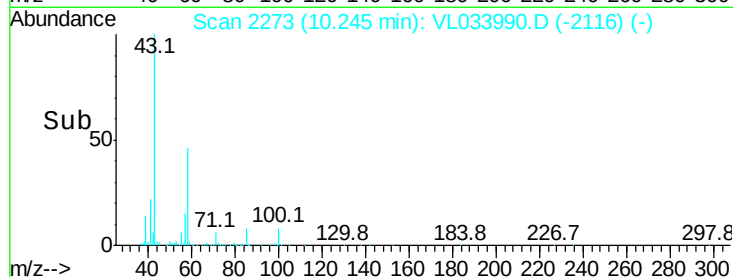
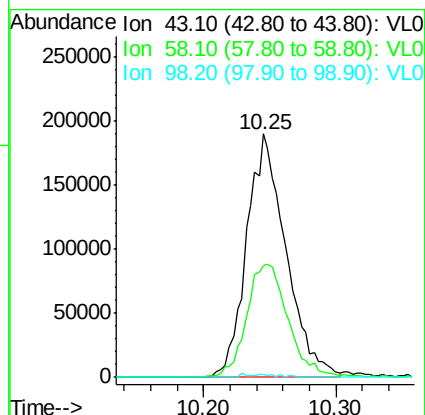
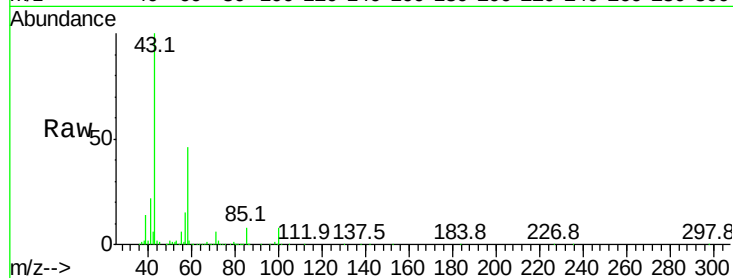




#51
2-Hexanone
Concen: 1.987 ppbv
RT: 10.25 min Scan# 2273
Delta R.T. 0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

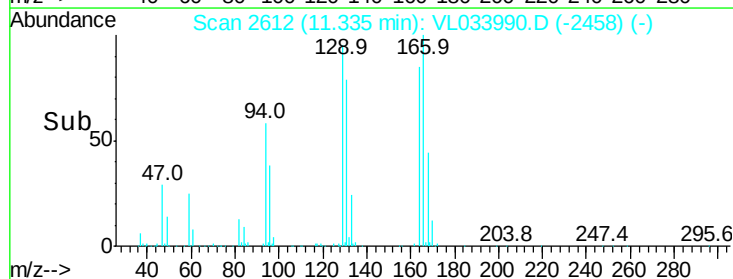
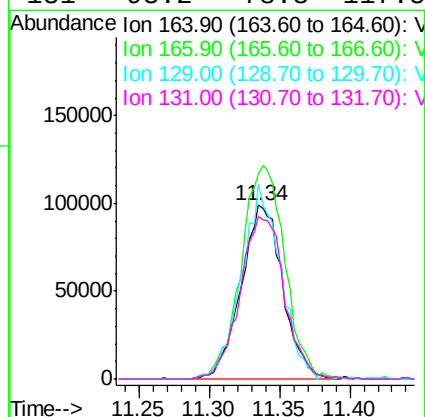
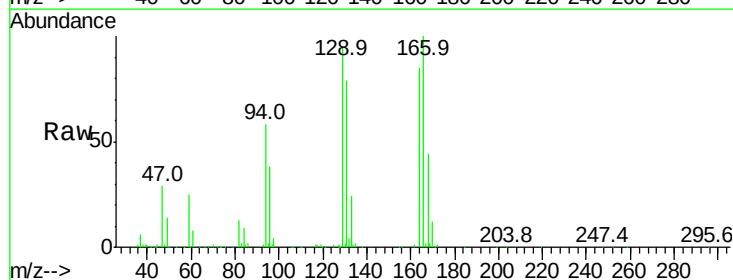
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

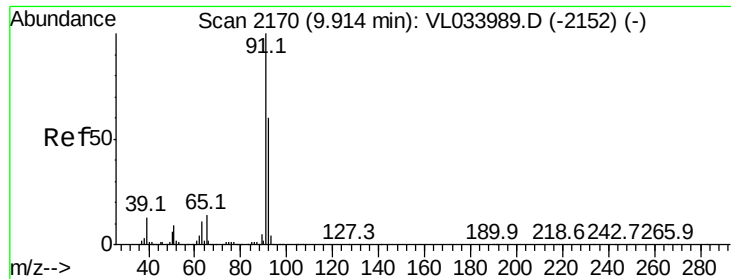
Tgt Ion: 43 Resp: 390006
Ion Ratio Lower Upper
43 100
58 49.2 41.0 61.4
98 1.4 0.2 0.2#



#52
Tetrachloroethene
Concen: 2.546 ppbv
RT: 11.34 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 164 Resp: 204475
Ion Ratio Lower Upper
164 100
166 117.9 100.2 150.2
129 112.3 81.0 121.6
131 93.2 78.3 117.5





#53

Toluene

Concen: 2.297 ppbv

RT: 9.91 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

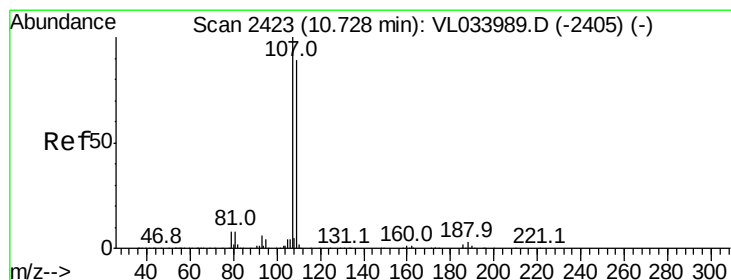
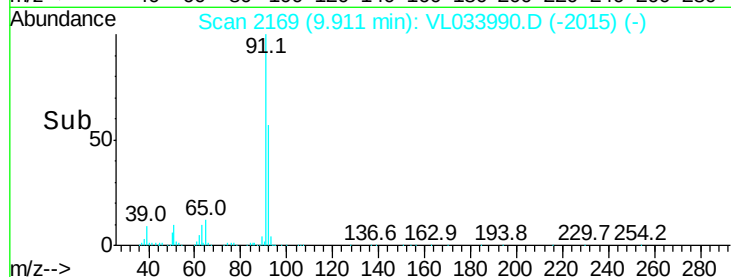
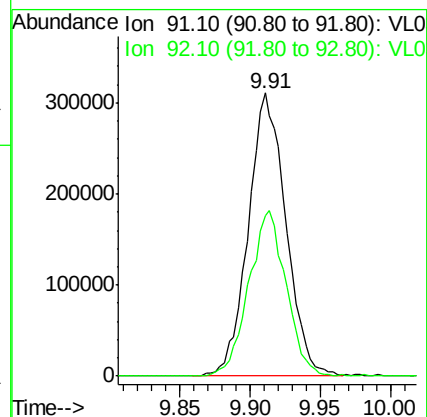
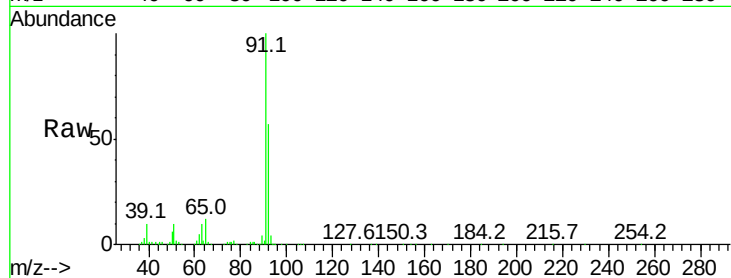
VSTDIC002

Tgt Ion: 91 Resp: 580186

Ion Ratio Lower Upper

91 100

92 58.4 47.7 71.5



#54

1,2-Dibromoethane

Concen: 1.547 ppbv

RT: 10.72 min Scan# 2421

Delta R.T. -0.01 min

Lab File: VL033990.D

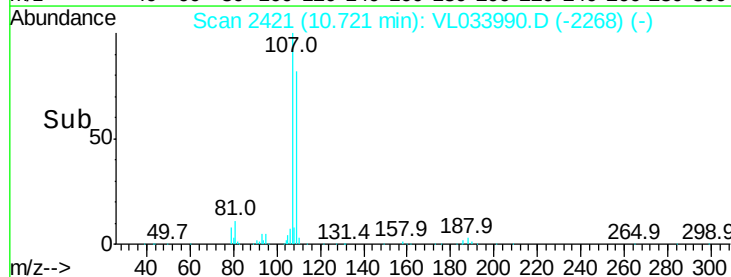
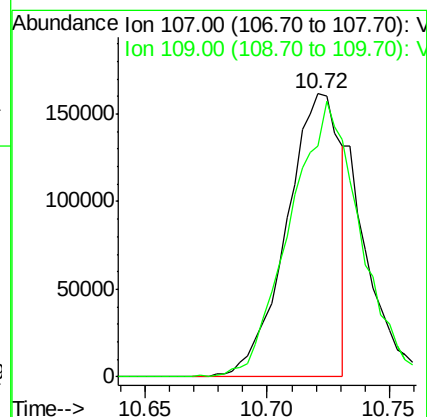
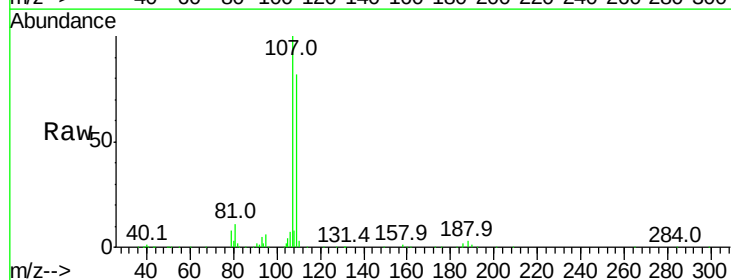
Acq: 2 Jul 2019 14:21

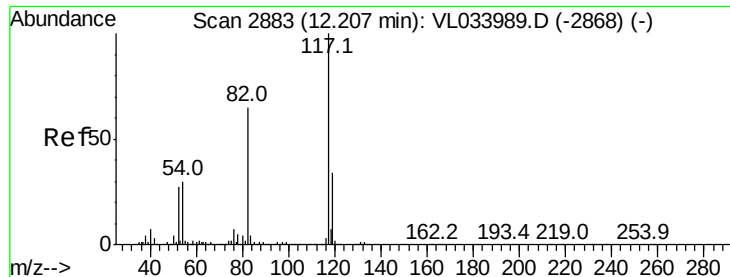
Tgt Ion: 107 Resp: 244927

Ion Ratio Lower Upper

107 100

109 81.6 71.5 107.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2882

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

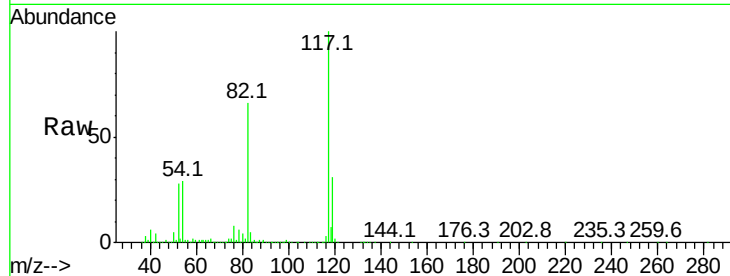
Tgt Ion:117 Resp: 2991738

Ion Ratio Lower Upper

117 100

82 62.3 50.8 76.2

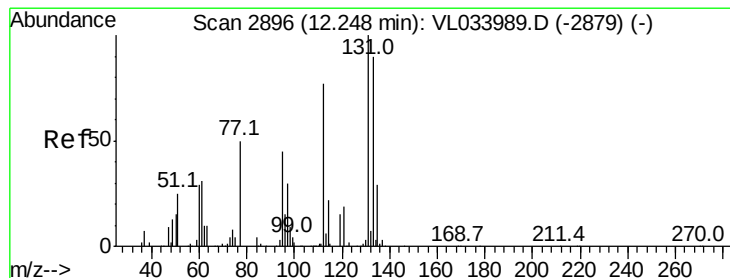
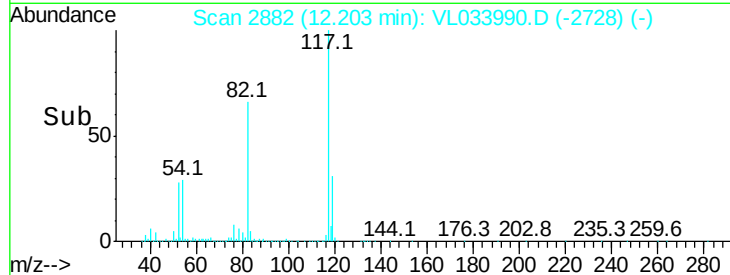
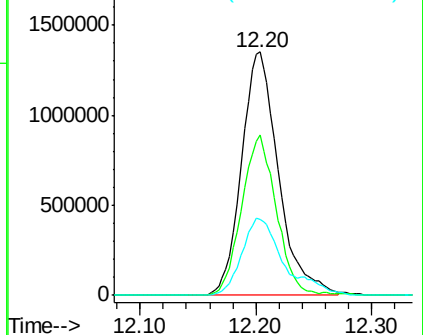
119 36.1 24.0 36.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 2.168 ppbv

RT: 12.24 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

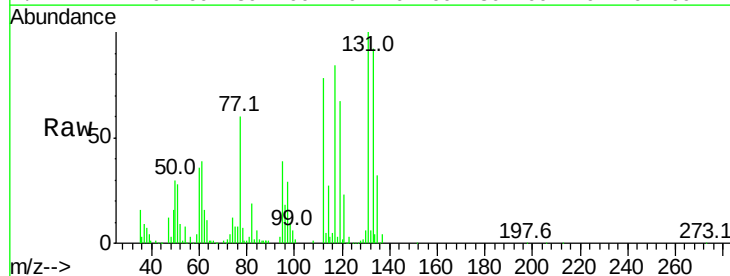
Tgt Ion:131 Resp: 283284

Ion Ratio Lower Upper

131 100

133 96.8 76.2 114.2

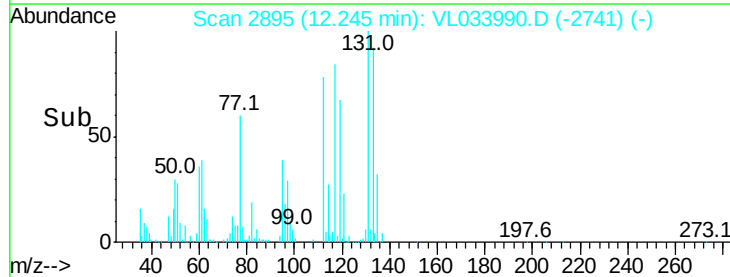
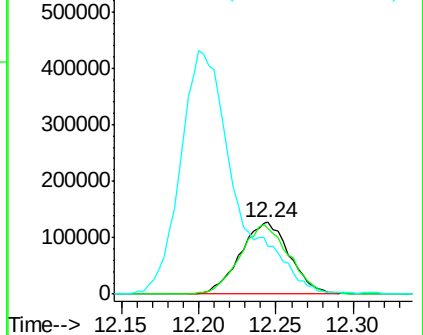
119 379.7 43.1 64.7#

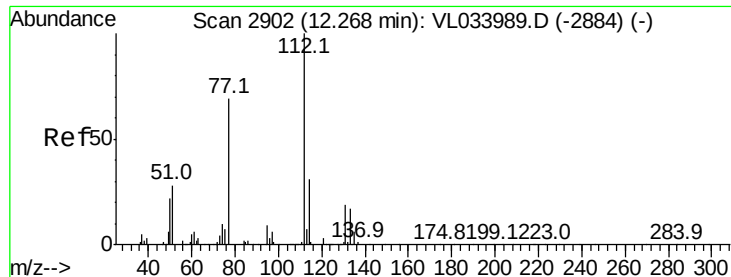


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 2.218 ppbv

RT: 12.26 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

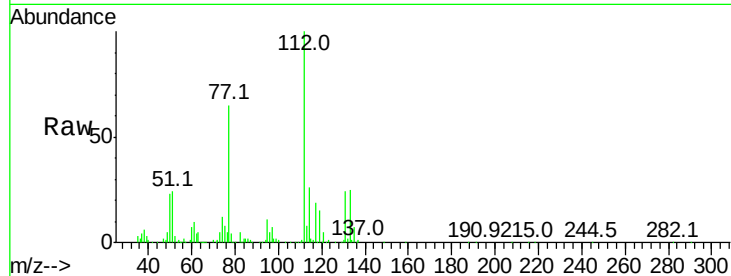
Tgt Ion: 112 Resp: 497039

Ion Ratio Lower Upper

112 100

77 64.6 55.9 83.9

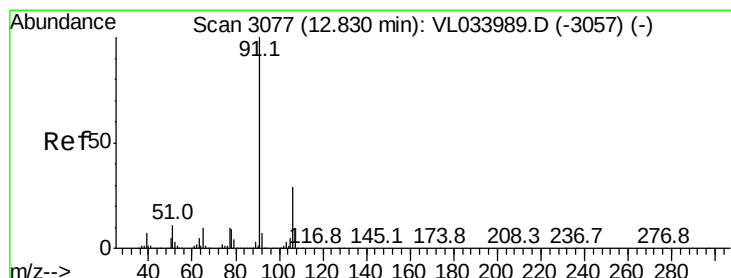
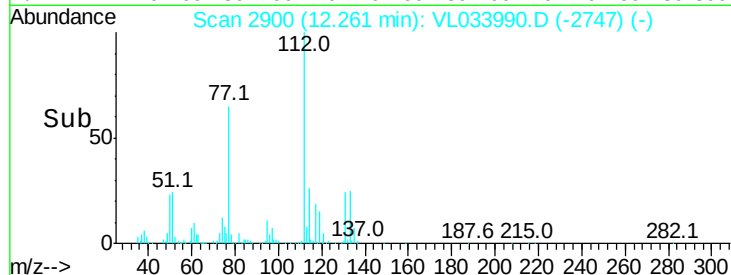
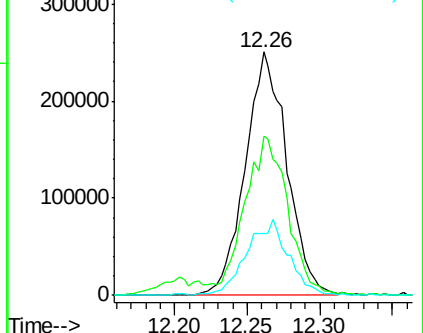
114 25.4 27.6 33.8#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 2.341 ppbv

RT: 12.83 min Scan# 3076

Delta R.T. -0.00 min

Lab File: VL033990.D

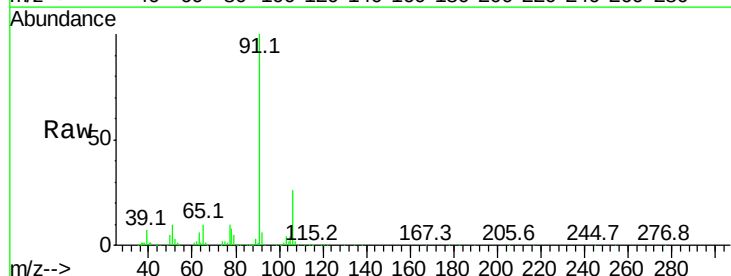
Acq: 2 Jul 2019 14:21

Tgt Ion: 91 Resp: 789713

Ion Ratio Lower Upper

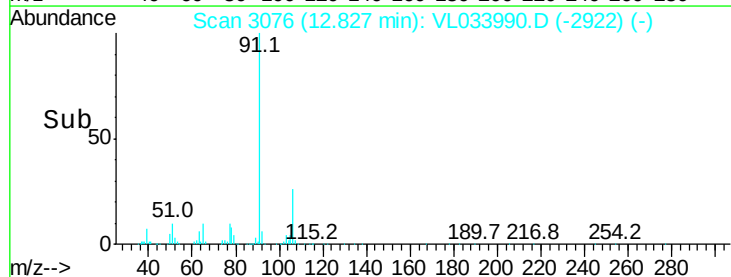
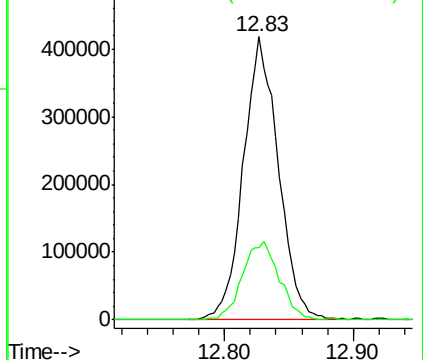
91 100

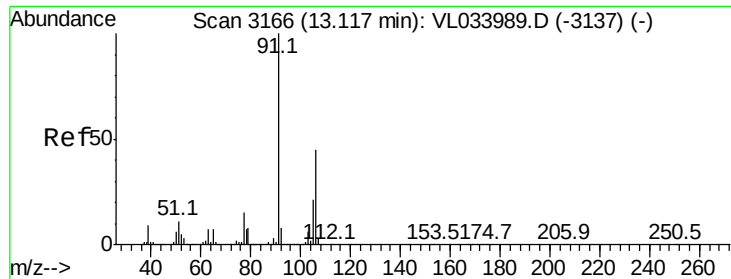
106 25.7 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

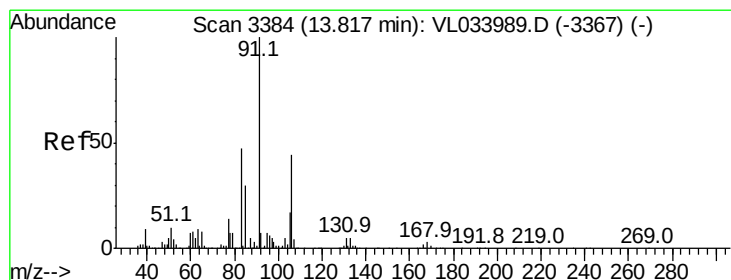
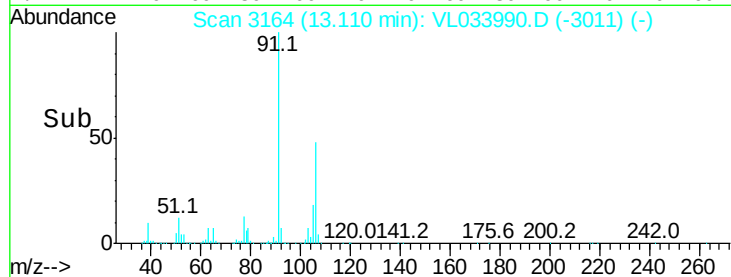
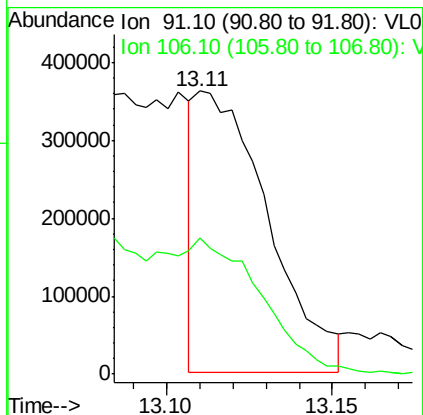
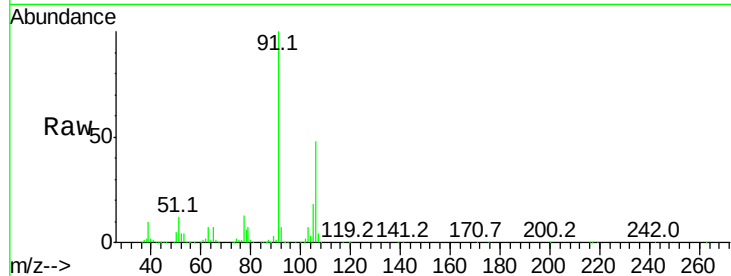




#59
m/p-Xylene
Concen: 1.770 ppbv
RT: 13.11 min Scan# 3164
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

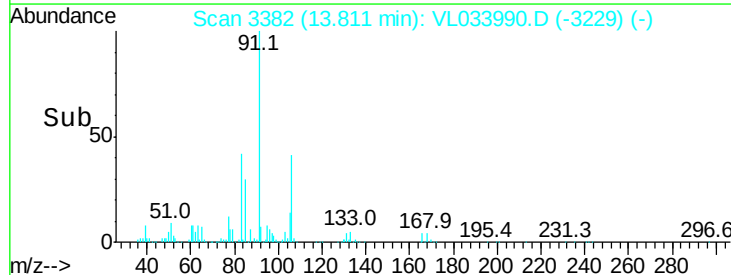
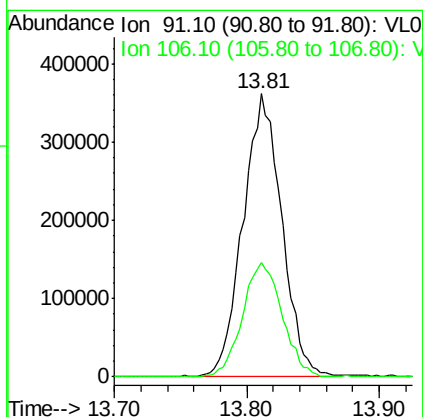
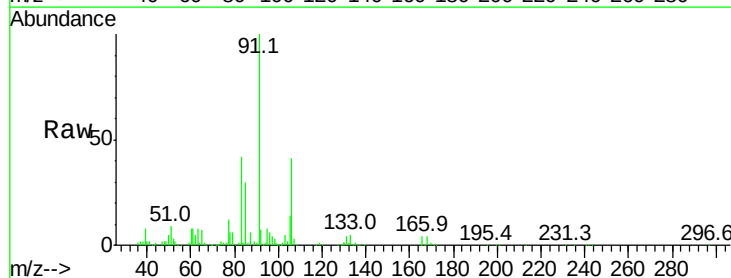
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

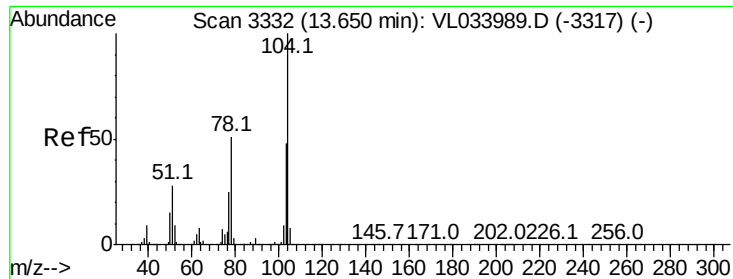
Tgt Ion: 91 Resp: 542827
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#



#60
o-Xylene
Concen: 2.313 ppbv
RT: 13.81 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 91 Resp: 732668
Ion Ratio Lower Upper
91 100
106 41.7 21.9 65.7

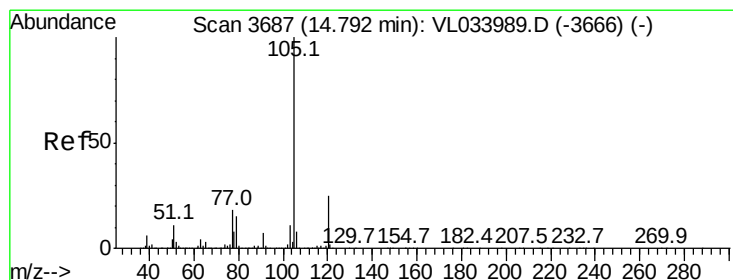
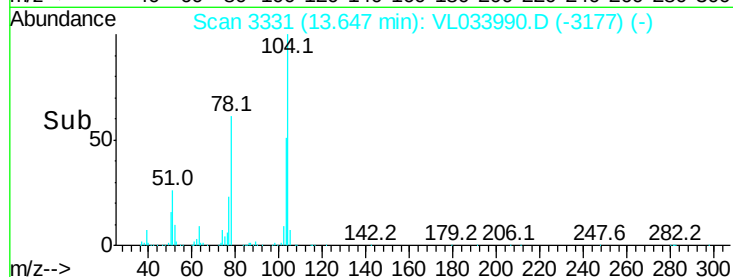
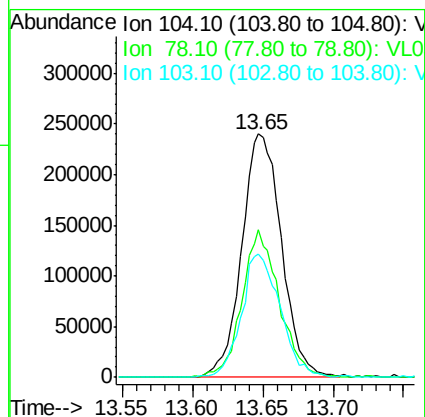
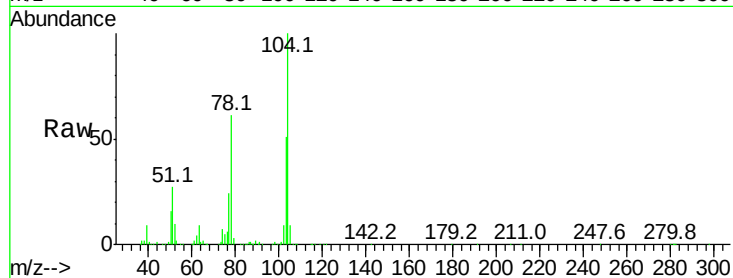




#61
Styrene
Concen: 2.311 ppbv
RT: 13.65 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

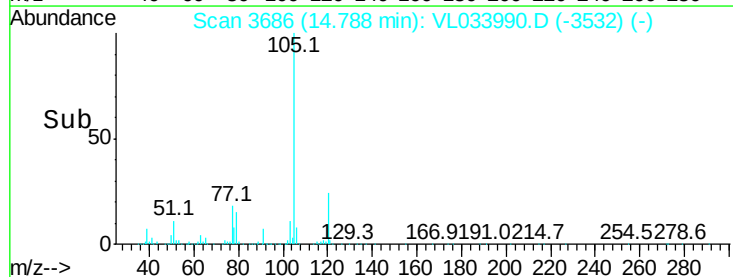
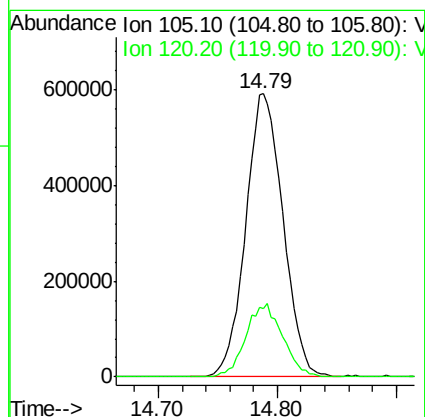
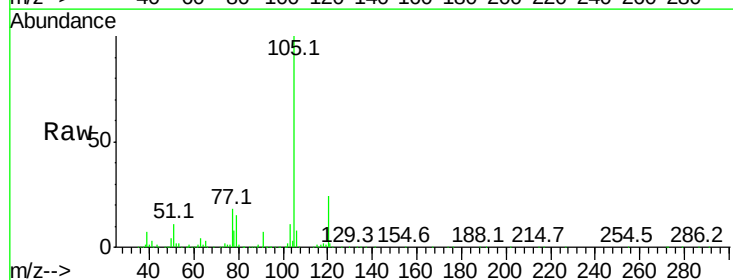
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

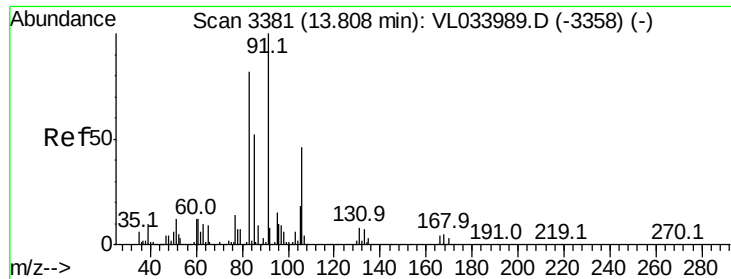
Tgt Ion:104 Resp: 473655
Ion Ratio Lower Upper
104 100
78 57.0 43.9 65.9
103 49.9 38.1 57.1



#62
Isopropylbenzene
Concen: 3.008 ppbv
RT: 14.79 min Scan# 3686
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion:105 Resp: 1284148
Ion Ratio Lower Upper
105 100
120 25.5 20.4 30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 2.144 ppbv

RT: 13.80 min Scan# 3378

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

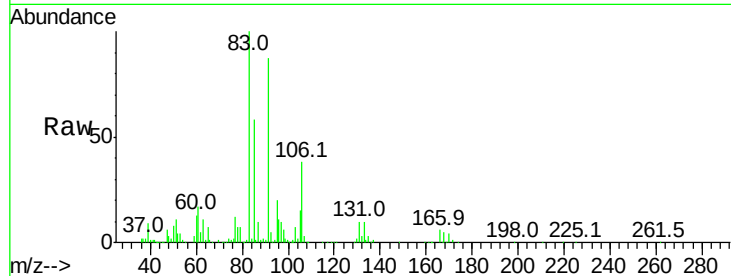
Tgt Ion: 83 Resp: 511161

Ion Ratio Lower Upper

83 100

131 10.0 5.0 14.9

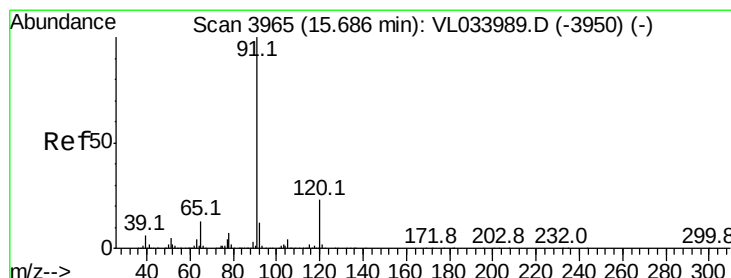
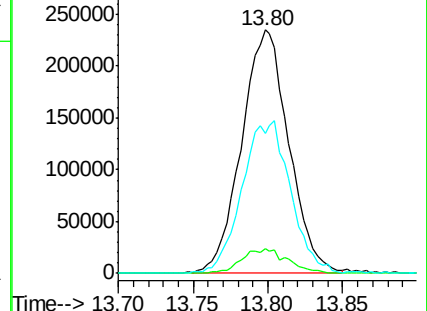
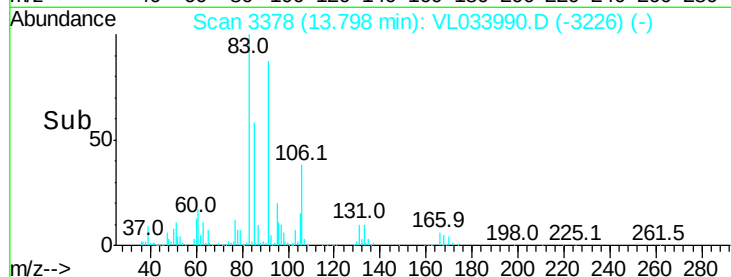
85 65.2 32.8 98.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 1.667 ppbv

RT: 15.68 min Scan# 3964

Delta R.T. -0.00 min

Lab File: VL033990.D

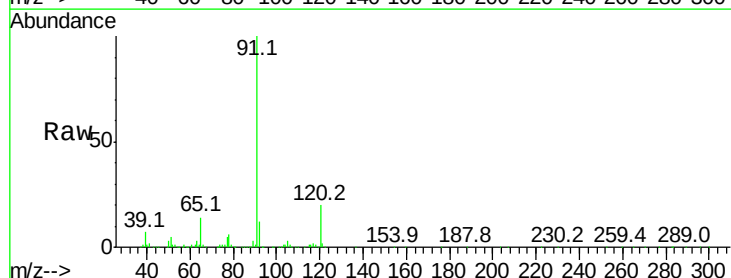
Acq: 2 Jul 2019 14:21

Tgt Ion: 120 Resp: 182178

Ion Ratio Lower Upper

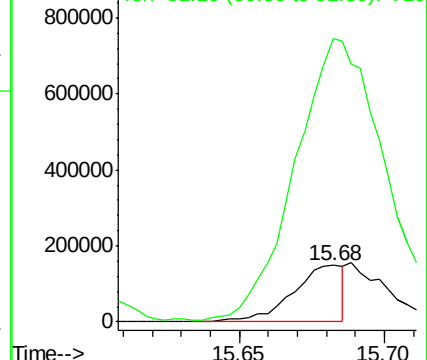
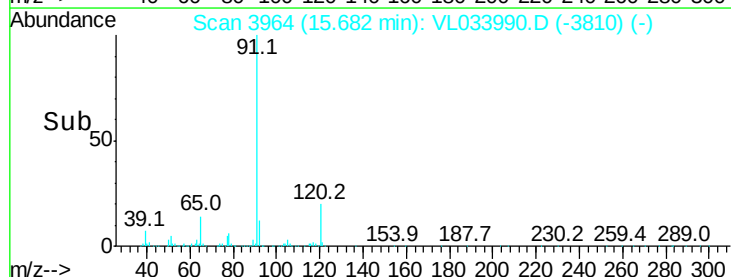
120 100

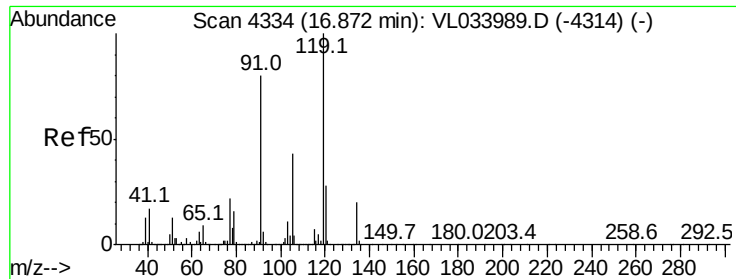
91 885.1 386.6 579.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

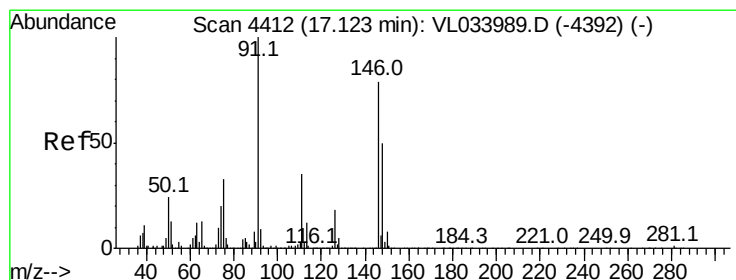
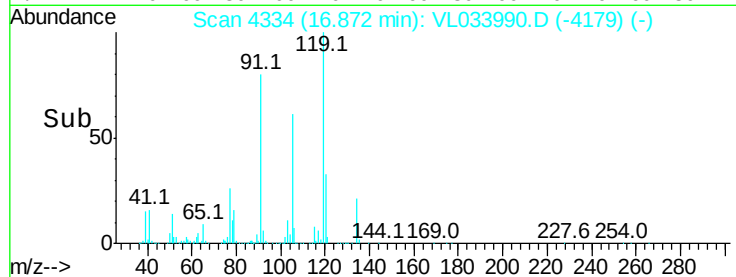
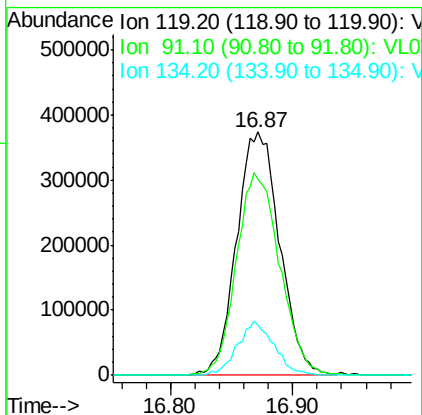
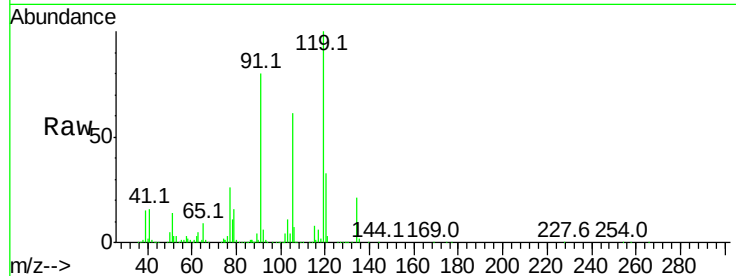




#65
 tert-Butylbenzene
 Concen: 2.308 ppbv
 RT: 16.87 min Scan# 4334
 Delta R.T. -0.00 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

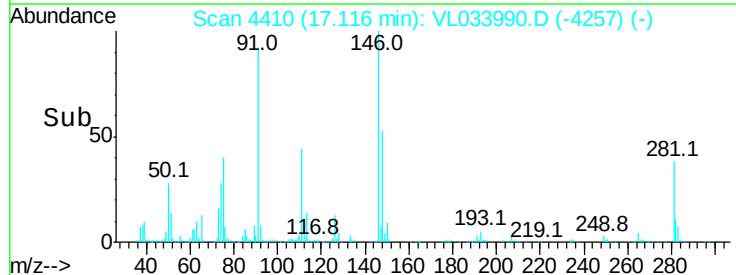
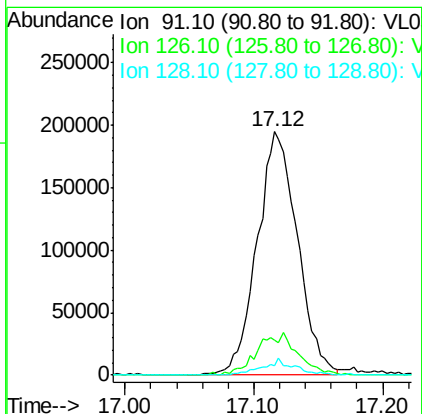
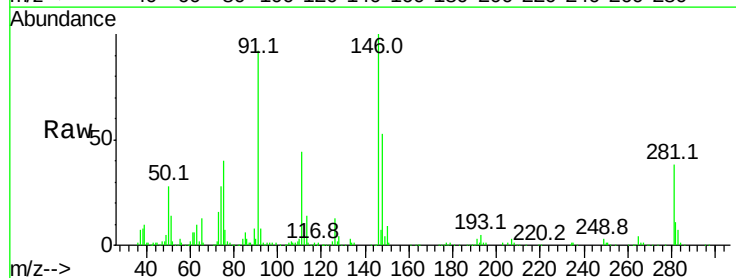
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

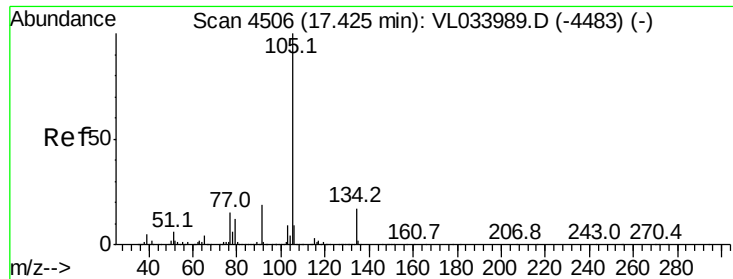
Tgt Ion: 119 Resp: 911695
 Ion Ratio Lower Upper
 119 100
 91 84.2 67.0 100.6
 134 19.0 15.8 23.6



#66
 Benzyl Chloride
 Concen: 2.120 ppbv
 RT: 17.12 min Scan# 4410
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion: 91 Resp: 424390
 Ion Ratio Lower Upper
 91 100
 126 17.8 13.9 20.9
 128 5.5 4.6 7.0





#67

sec-Butylbenzene

Concen: 2.272 ppbv

RT: 17.42 min Scan# 4505

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

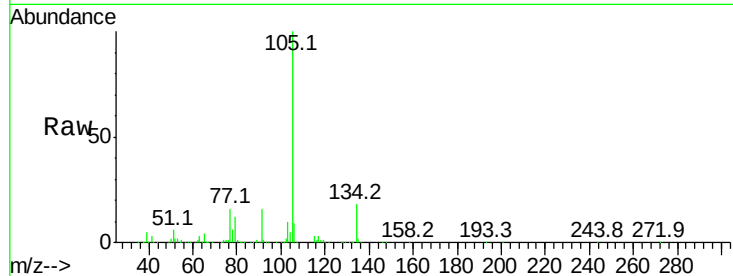
VSTDIC002

Tgt Ion:105 Resp: 1258868

Ion Ratio Lower Upper

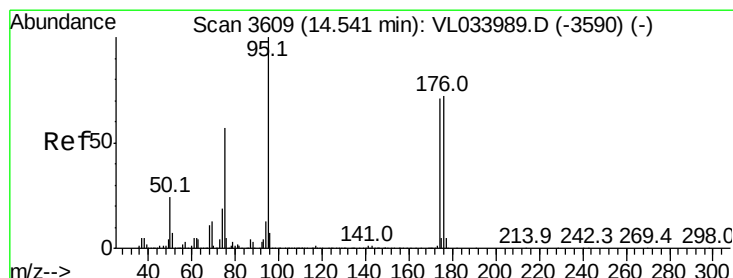
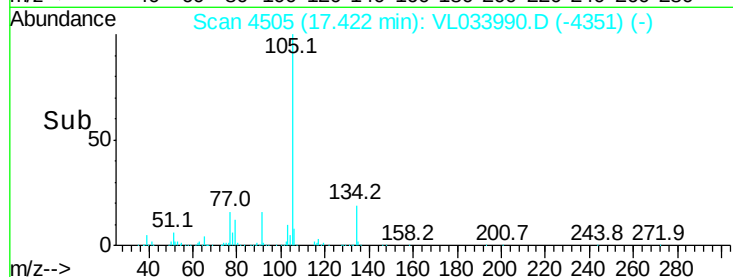
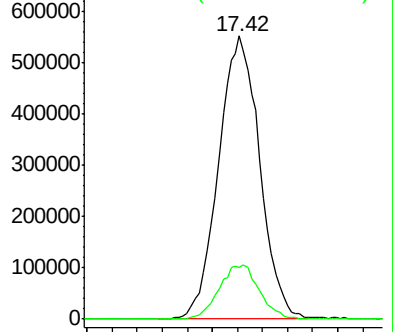
105 100

134 18.7 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 12.525 ppbv

RT: 14.54 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

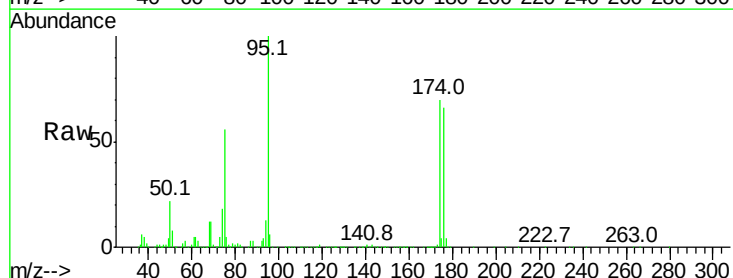
Tgt Ion: 95 Resp: 3077754

Ion Ratio Lower Upper

95 100

174 71.8 60.5 90.7

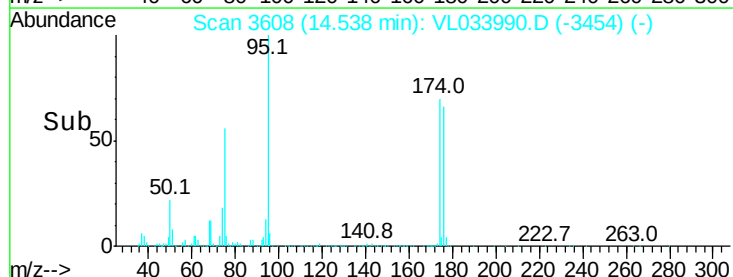
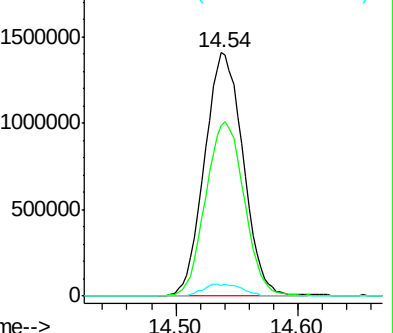
175 5.1 4.0 6.0

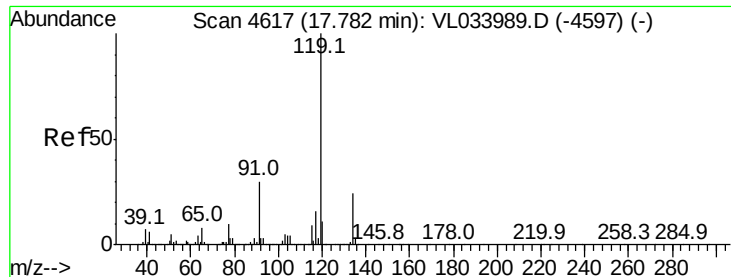


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

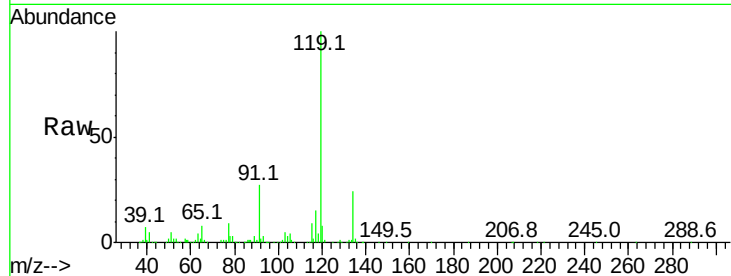




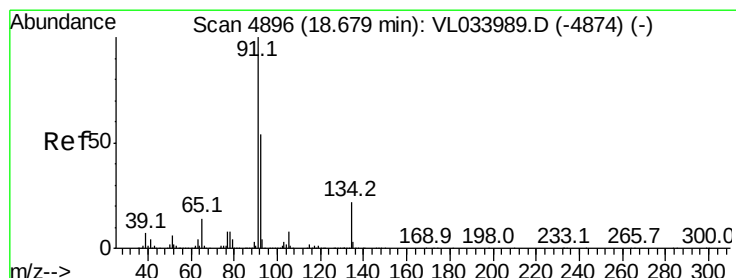
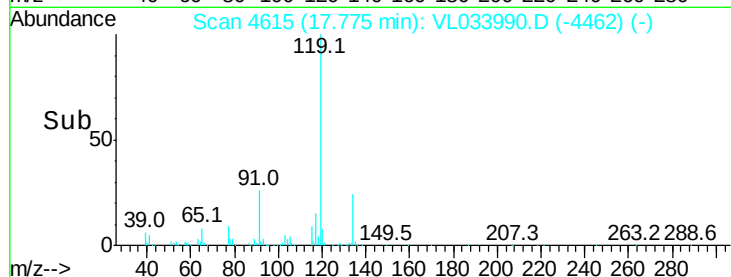
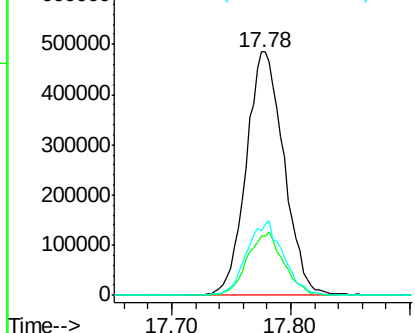
#69
p-Isopropyltoluene
Concen: 2.302 ppbv
RT: 17.78 min Scan# 4615
Delta R.T. -0.01 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 119 Resp: 1061104
Ion Ratio Lower Upper
119 100
134 24.8 20.1 30.1
91 29.7 23.6 35.4

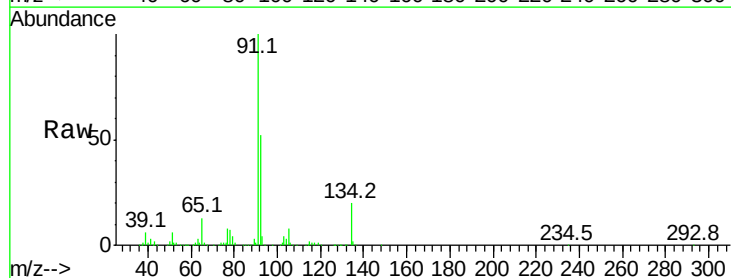


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

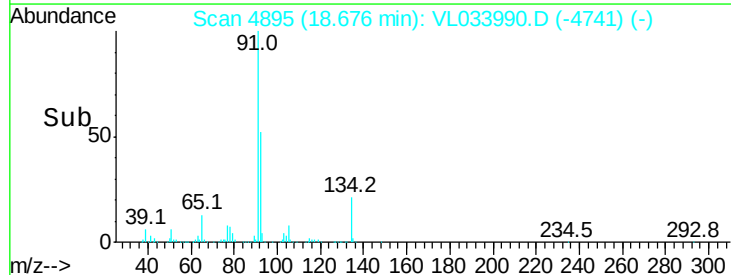
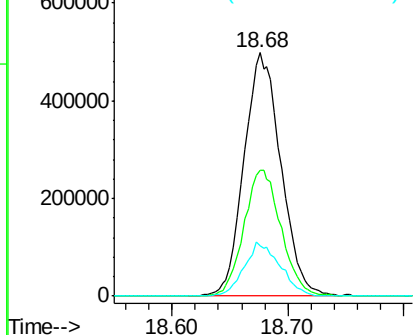


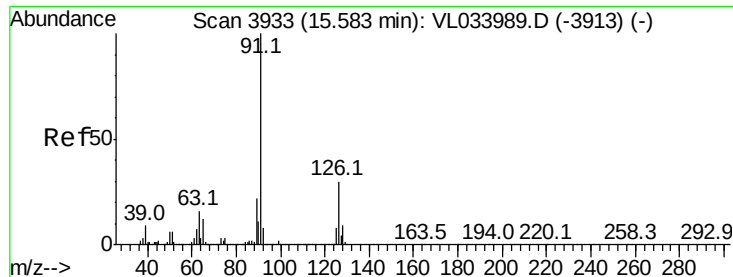
#70
n-Butylbenzene
Concen: 2.183 ppbv
RT: 18.68 min Scan# 4895
Delta R.T. -0.00 min
Lab File: VL033990.D
Acq: 2 Jul 2019 14:21

Tgt Ion: 91 Resp: 1102087
Ion Ratio Lower Upper
91 100
92 52.3 42.0 63.0
134 21.6 17.9 26.9



Abundance Ion 91.10 (90.80 to 91.80): V
Ion 92.10 (91.80 to 92.80): V
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 3.072 ppbv

RT: 15.58 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

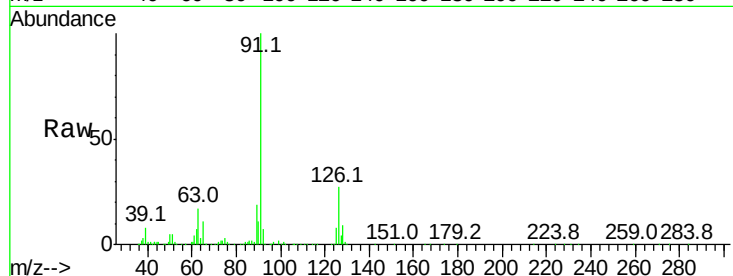
VSTDIC002

Tgt Ion: 91 Resp: 966120

Ion Ratio Lower Upper

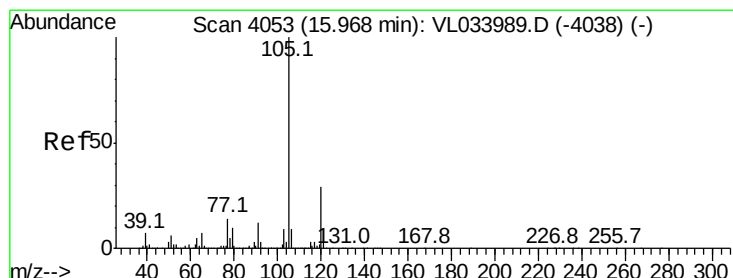
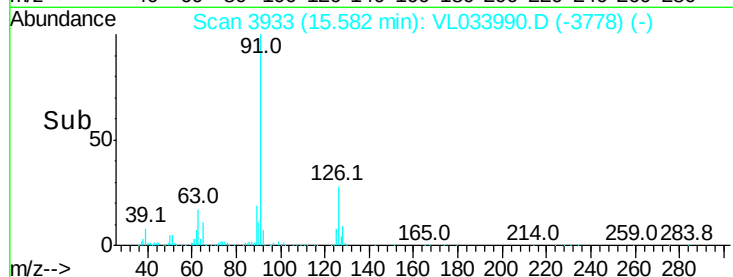
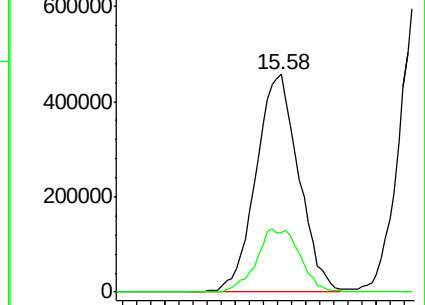
91 100

126 29.5 12.3 49.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 3.002 ppbv

RT: 15.96 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion: 105 Resp: 1081830

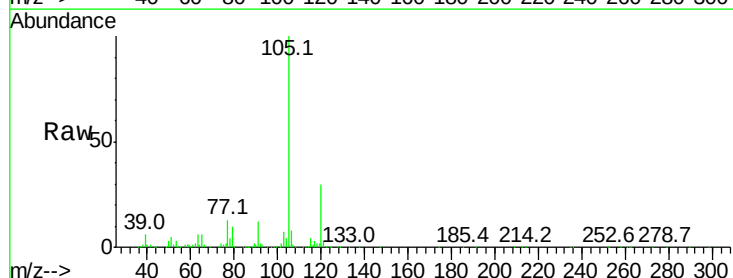
Ion Ratio Lower Upper

105 100

120 28.9 24.1 36.1

91 13.9 10.6 16.0

77 14.1 11.5 17.3

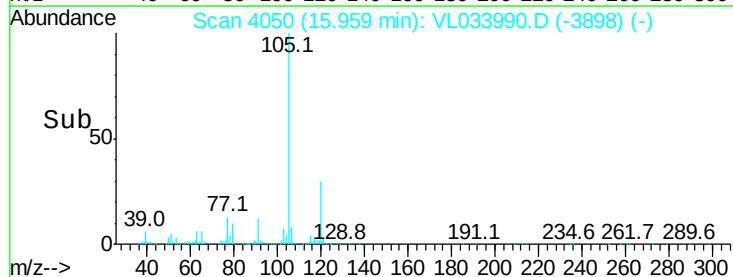
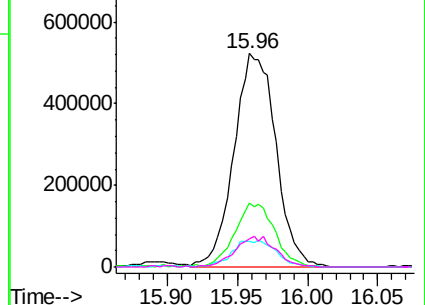


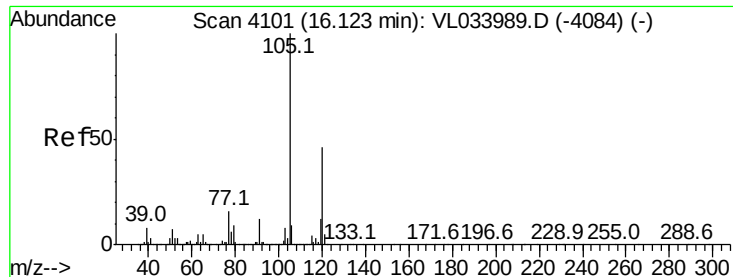
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 2.288 ppbv

RT: 16.12 min Scan# 4100

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

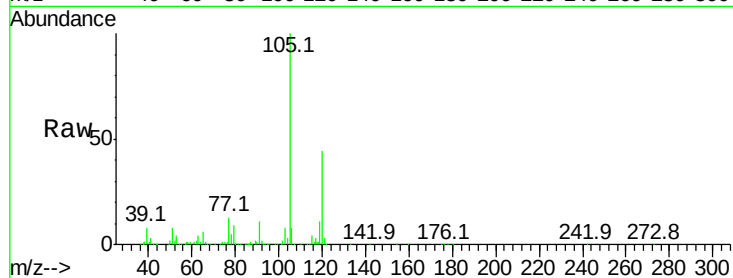
VSTDIC002

Tgt Ion:105 Resp: 812162

Ion Ratio Lower Upper

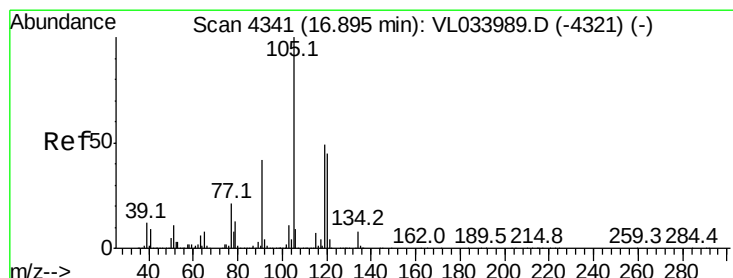
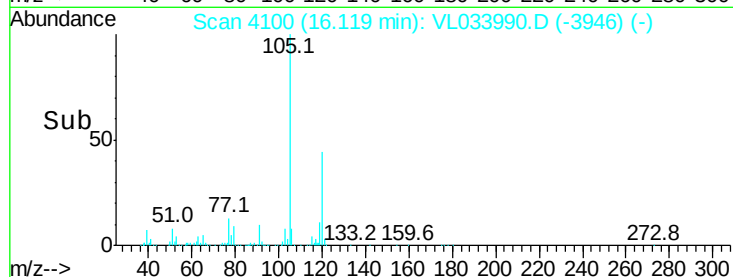
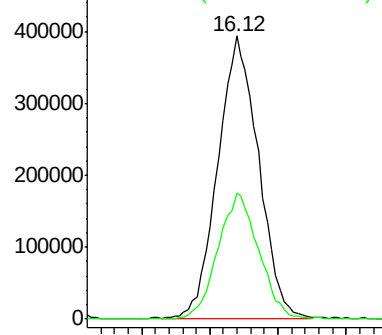
105 100

120 44.3 36.4 54.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.203 ppbv

RT: 16.89 min Scan# 4339

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Tgt Ion:105 Resp: 901176

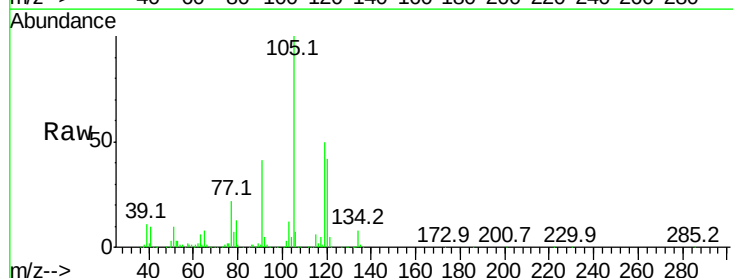
Ion Ratio Lower Upper

105 100

120 42.0 36.2 54.2

91 41.4 34.3 51.5

77 21.7 17.1 25.7

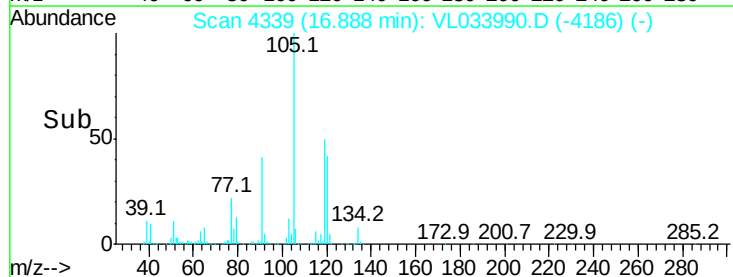
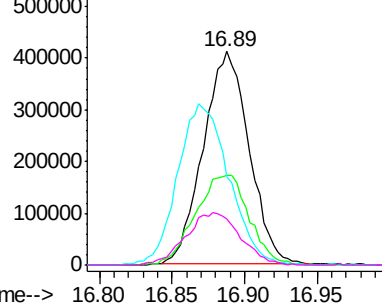


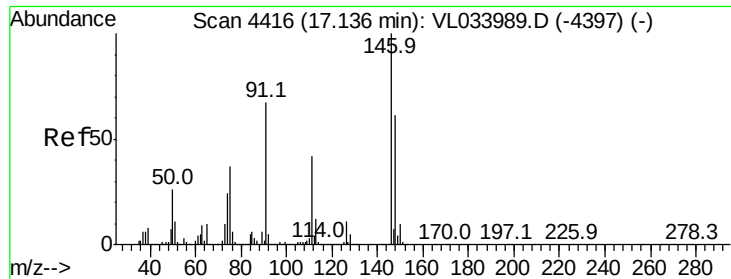
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 2.177 ppbv

RT: 17.13 min Scan# 4413

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

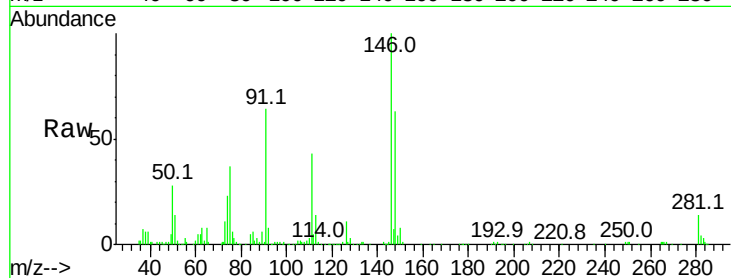
Tgt Ion:146 Resp: 557792

Ion Ratio Lower Upper

146 100

111 45.7 22.3 66.9

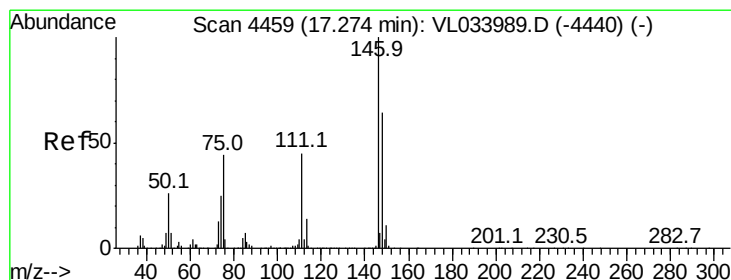
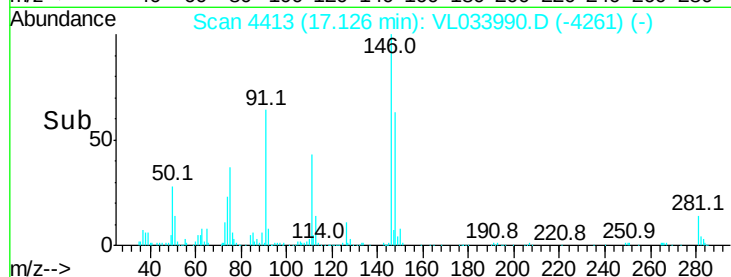
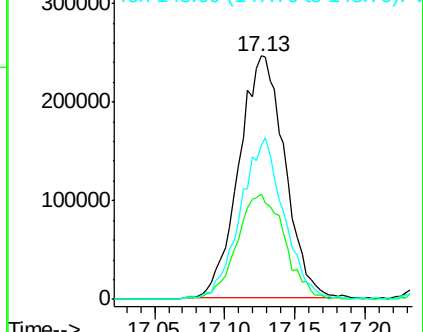
148 63.8 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 2.252 ppbv

RT: 17.27 min Scan# 4457

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

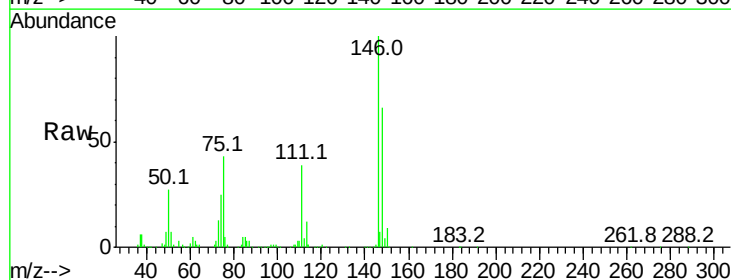
Tgt Ion:146 Resp: 529783

Ion Ratio Lower Upper

146 100

111 43.0 21.9 65.5

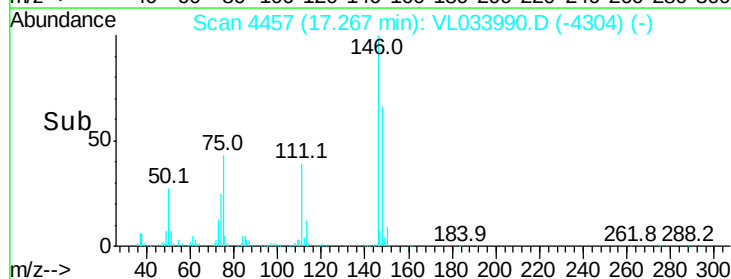
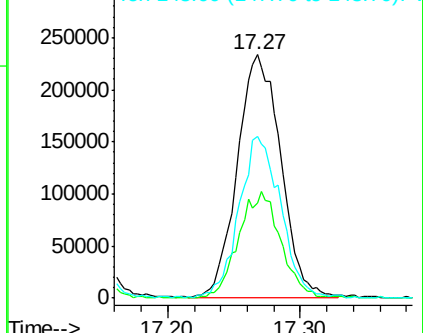
148 64.3 32.5 97.5

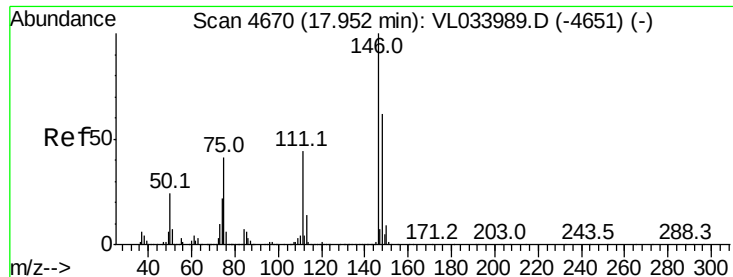


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

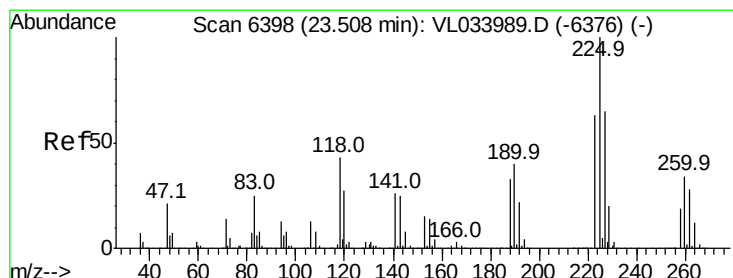
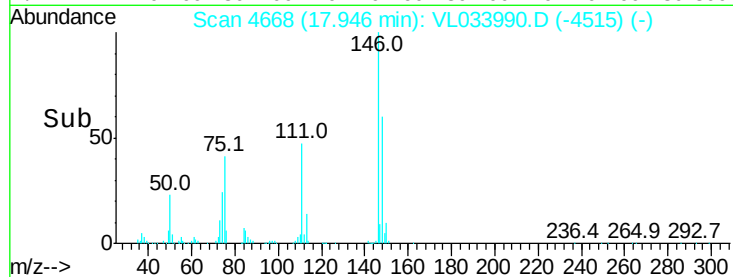
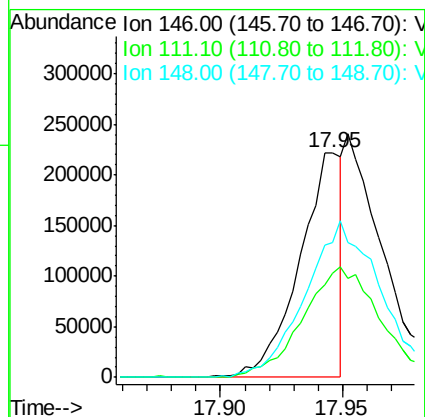
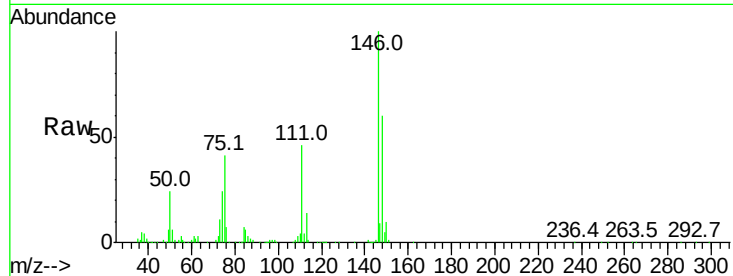




#77
 1,2-Dichlorobenzene
 Concen: 1.122 ppbv
 RT: 17.95 min Scan# 4668
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

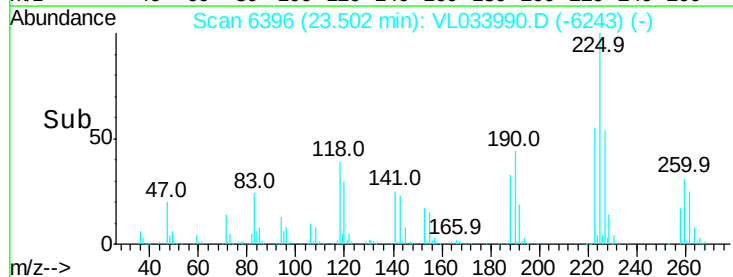
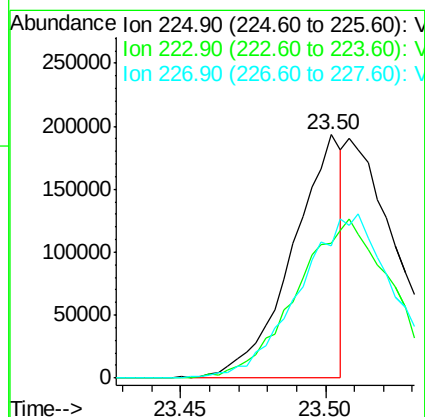
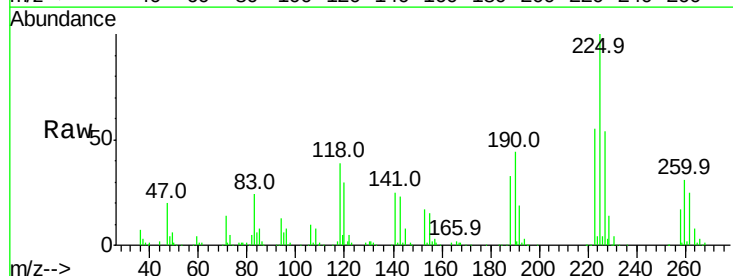
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

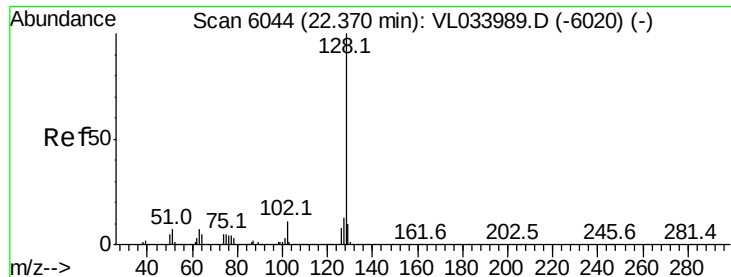
Tgt Ion:146 Resp: 265283
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.7 68.1#
 148 0.0 32.1 96.3#



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.230 ppbv
 RT: 23.50 min Scan# 6396
 Delta R.T. -0.01 min
 Lab File: VL033990.D
 Acq: 2 Jul 2019 14:21

Tgt Ion:225 Resp: 227175
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.5 77.3#
 227 0.0 52.1 78.1#





#79

Naphthalene

Concen: 1.315 ppbv

RT: 22.36 min Scan# 6042

Delta R.T. -0.01 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

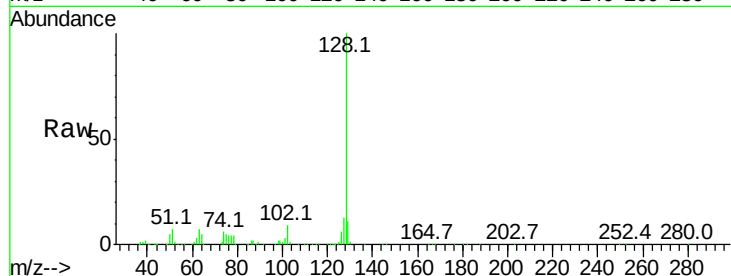
Tgt Ion:128 Resp: 430174

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

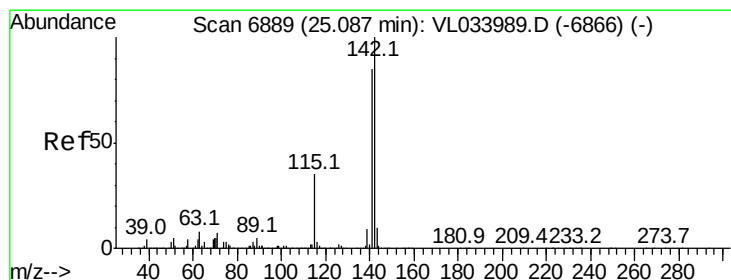
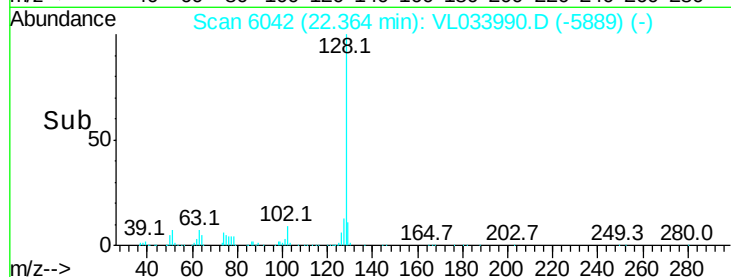
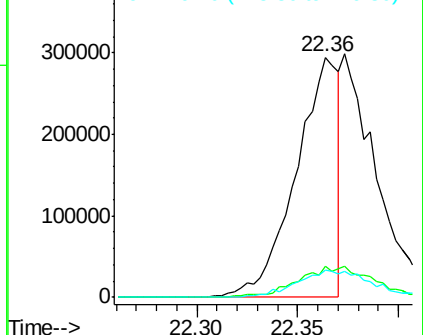
129 11.3 8.3 12.5



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 2.639 ppbv

RT: 25.08 min Scan# 6888

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

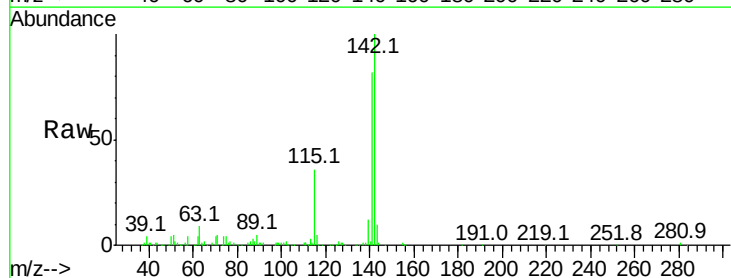
Tgt Ion:142 Resp: 344329

Ion Ratio Lower Upper

142 100

141 87.2 68.2 102.2

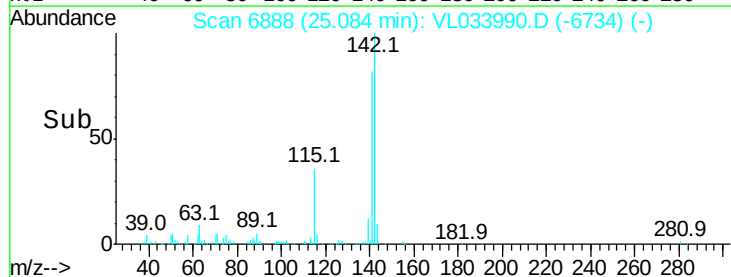
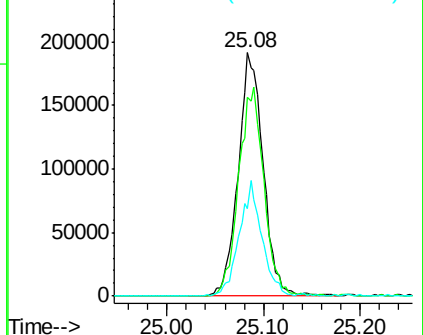
115 43.5 29.9 44.9

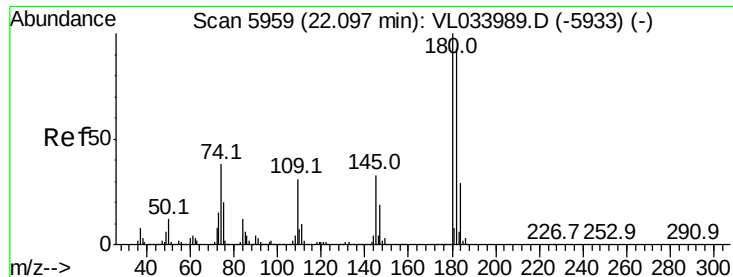


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 2.413 ppbv

RT: 22.09 min Scan# 5958

Delta R.T. -0.00 min

Lab File: VL033990.D

Acq: 2 Jul 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

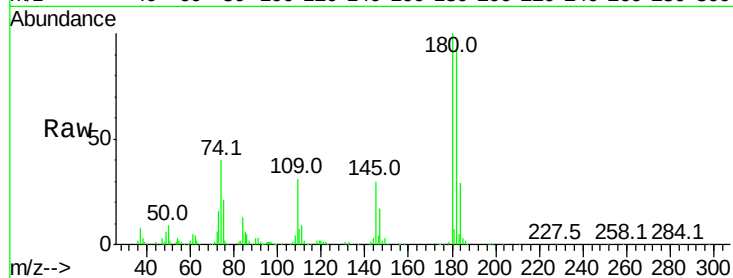
Tgt Ion:180 Resp: 498176

Ion Ratio Lower Upper

180 100

182 94.0 76.6 114.8

184 31.4 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

